Appendix A-1:

Phase 1A/1B GCPT Data from ConeTec

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221484
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1-1A
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-25-2013
CPT Time:	11:10
CPT File:	13-53075_GP1-1A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722010.810
Northing / Lat:	4294235.202
Elevation:	143.436
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	24.900	24.904	0.140	0.720	0.562	90.600
2	0.100	0.328	29.400	29.401	0.225	0.150	0.765	87.800
3	0.150	0.492	26.410	26.406	0.276	-0.650	1.045	78.400
4	0.200	0.656	23.640	23.638	0.255	-0.280	1.079	98.800
5	0.250	0.820	20.760	20.757	0.187	-0.470	0.901	94.200
6	0.300	0.984	18.540	18.536	0.149	-0.640	0.804	87.000
7	0.350	1.148	17.810	17.809	0.169	-0.210	0.949	83.700
8	0.400	1.312	16.950	16.950	0.213	-0.030	1.257	106.600
9	0.450	1.476	16.210	16.210	0.161	-0.070	0.993	96.200
10	0.500	1.640	14.220	14.218	0.121	-0.380	0.851	106.800
11	0.550	1.804	13.910	13.909	0.123	-0.170	0.884	85.700
12	0.600	1.968	16.270	16.270	0.180	0.000	1.106	81.300
13	0.650	2.133	15.080	15.082	0.184	0.300	1.220	85.400
14	0.700	2.297	13.810	13.811	0.201	0.200	1.455	89.300
15	0.750	2.461	15.480	15.480	0.217	0.070	1.402	92.000
16	0.800	2.625	14.620	14.618	0.331	-0.250	2.264	83.100
17	0.850	2.789	16.030	16.029	0.456	-0.170	2.845	81.600
18	0.900	2.953	19.570	19.566	0.547	-0.610	2.796	90.500
19	0.950	3.117	26.780	26.747	0.642	-5.270	2.400	92.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	40.830	40.810	0.632	-3.130	1.549	86.900
21	1.050	3.445	40.650	40.643	0.572	-1.130	1.407	88.800
22	1.100	3.609	43.830	43.817	0.531	-2.090	1.212	83.500
23	1.150	3.773	38.210	38.192	0.608	-2.870	1.592	83.200
24	1.200	3.937	30.710	30.715	0.643	0.730	2.093	75.900
25	1.250	4.101	26.890	26.891	0.597	0.090	2.220	87.700
26	1.300	4.265	24.960	24.950	0.487	-1.670	1.952	76.100
27	1.350	4.429	19.600	19.582	0.357	-2.880	1.823	87.600
28	1.400	4.593	18.250	18.230	0.423	-3.230	2.320	70.300
29	1.450	4.757	24.870	24.854	0.336	-2.570	1.352	90.700
30	1.500	4.921	12.250	12.274	0.257	3.880	2.094	87.800
31	1.550	5.085	9.190	9.206	0.276	2.600	2.998	88.200
32	1.600	5.249	9.270	9.274	0.239	0.640	2.577	96.100
33	1.650	5.413	8.580	8.583	0.232	0.410	2.703	70.900
34	1.700	5.577	7.650	7.651	0.176	0.240	2.300	60.300
35	1.750	5.741	6.820	6.798	0.135	-3.600	1.986	52.300
36	1.800	5.905	11.260	11.255	0.077	-0.740	0.684	41.600
37	1.850	6.069	13.860	13.846	0.154	-2.170	1.112	34.200
38	1.900	6.234	30.120	30.121	0.203	0.170	0.674	24.700
39	1.950	6.398	33.090	33.120	0.287	4.840	0.867	25.900
40	2.000	6.562	20.200	20.226	0.315	4.090	1.557	29.700
41	2.050	6.726	20.770	20.775	0.327	0.820	1.574	17.900
42	2.100	6.890	38.260	38.277	0.139	2.790	0.363	21.700
43	2.150	7.054	61.050	61.107	0.283	9.110	0.463	24.000
44	2.200	7.218	38.480	38.490	0.235	1.590	0.611	23.100
45	2.250	7.382	58.540	58.612	0.215	11.510	0.367	23.100
46	2.300	7.546	73.210	73.240	0.253	4.830	0.345	25.500
47	2.350	7.710	76.950	77.167	0.478	34.780	0.619	30.200
48	2.400	7.874	70.200	70.472	0.377	43.590	0.535	35.000
49	2.450	8.038	109.390	109.399	0.014	1.390	0.013	46.500
50	2.500	8.202	115.660	115.917	0.013	41.230	0.011	60.100
51	2.550	8.366	47.550	47.684	0.011	21.430	0.023	63.200
52	2.600	8.530	43.790	43.829	0.062	6.260	0.141	48.100
53	2.650	8.694	60.600	60.679	0.355	12.660	0.585	43.500
54	2.700	8.858	68.230	68.310	0.450	12.800	0.659	30.100
55	2.750	9.022	84.680	84.738	0.295	9.220	0.348	23.400
56	2.800	9.186	79.180	79.267	0.153	13.930	0.193	27.100
57	2.850	9.350	73.810	73.941	0.014	21.040	0.019	19.500
58	2.900	9.514	55.750	55.811	0.011	9.820	0.020	18.100
59	2.950	9.678	50.640	50.689	0.014	7.920	0.028	21.500
60	3.000	9.842	42.670	42.743	0.013	11.670	0.030	25.800
61	3.050	10.006	42.830	42.876	0.011	7.330	0.026	13.500
62	3.100	10.170	44.190	44.233	0.042	6.830	0.095	23.000
63	3.150	10.335	28.890	28.931	0.012	6.600	0.041	15.900
64	3.200	10.499	42.800	42.851	0.012	8.110	0.028	17.400
65	3.250	10.663	39.570	39.620	0.015	8.010	0.038	14.900
66	3.300	10.827	39.130	39.161	0.014	4.960	0.036	18.800
67	3.350	10.991	38.380	38.452	0.022	11.460	0.057	19.200
68	3.400	11.155	37.420	37.462	0.086	6.750	0.230	25.600
69	3.450	11.319	49.950	49.971	0.189	3.340	0.378	25.000
70	3.500	11.483	60.430	60.471	0.101	6.510	0.167	25.600
71	3.550	11.647	63.130	63.198	0.151	10.860	0.239	28.200
72	3.600	11.811	88.790	88.856	0.298	10.570	0.335	29.700
73	3.650	11.975	80.500	80.563	0.161	10.080	0.200	33.800
74	3.700	12.139	66.090	66.130	0.014	6.380	0.021	47.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	52.340	52.407	0.170	10.700	0.324	64.700
76	3.800	12.467	66.790	66.883	0.135	14.870	0.202	76.200
77	3.850	12.631	87.790	87.904	0.087	18.240	0.099	84.100
78	3.900	12.795	78.220	78.347	0.101	20.290	0.129	82.700
79	3.950	12.959	68.740	68.844	0.021	16.600	0.031	79.400
80	4.000	13.123	59.670	59.761	0.070	14.520	0.117	73.500
81	4.050	13.287	53.630	53.694	0.011	10.280	0.020	54.500
82	4.100	13.451	50.210	50.256	0.062	7.320	0.123	49.800
83	4.150	13.615	68.290	68.338	0.015	7.680	0.022	38.700
84	4.200	13.779	53.390	53.471	0.015	13.000	0.028	25.600
85	4.250	13.943	53.230	53.295	0.014	10.360	0.026	20.200
86	4.300	14.107	48.780	48.838	0.198	9.220	0.405	20.800
87	4.350	14.271	64.610	64.633	0.668	3.660	1.034	20.300
88	4.400	14.436	109.800	109.847	0.872	7.540	0.794	12.400
89	4.450	14.600	237.980	238.036	1.243	8.910	0.522	18.200
90	4.500	14.764	152.890	152.983	1.748	14.910	1.143	13.400
91	4.550	14.928	66.140	66.226	1.866	13.740	2.818	15.800
92	4.600	15.092	41.800	41.819	1.341	2.990	3.207	17.200
93	4.650	15.256	32.280	32.302	0.710	3.500	2.198	14.900
94	4.700	15.420	17.850	17.897	0.824	7.460	4.604	24.900
95	4.750	15.584	23.110	23.109	0.867	-0.110	3.752	25.400
96	4.800	15.748	22.600	22.640	1.019	6.460	4.501	25.000
97	4.850	15.912	31.720	31.735	1.063	2.390	3.350	29.000
98	4.900	16.076	30.700	30.761	1.228	9.710	3.992	44.200
99	4.950	16.240	33.620	33.722	1.217	16.300	3.609	52.600
100	5.000	16.404	36.050	36.132	0.824	13.120	2.281	46.800
101	5.050	16.568	45.030	45.030	1.286	-0.040	2.856	41.400
102	5.100	16.732	77.760	77.765	1.278	0.840	1.643	39.600
103	5.150	16.896	25.470	25.521	1.584	8.180	6.207	38.800
104	5.200	17.060	42.420	42.520	1.163	15.970	2.735	51.700
105	5.250	17.224	30.240	30.274	1.100	5.400	3.634	48.800
106	5.300	17.388	24.200	24.276	1.059	12.140	4.362	63.900
107	5.350	17.552	22.340	22.563	0.745	35.760	3.302	65.500
108	5.400	17.716	22.190	22.251	0.519	9.770	2.332	60.300
109	5.450	17.880	22.550	22.543	0.564	-1.140	2.502	76.000
110	5.500	18.044	27.340	27.343	0.344	0.430	1.258	69.200
111	5.550	18.208	18.270	18.268	0.392	-0.350	2.146	69.100
112	5.600	18.372	14.090	14.117	0.527	4.380	3.733	67.300
113	5.650	18.537	29.870	29.887	0.480	2.770	1.606	84.800
114	5.700	18.701	26.760	26.811	0.576	8.210	2.148	93.800
115	5.750	18.865	44.420	44.488	0.571	10.850	1.283	96.200
116	5.800	19.029	52.590	52.635	0.543	7.210	1.032	88.200
117	5.850	19.193	49.460	49.499	0.573	6.310	1.158	95.600
118	5.900	19.357	40.940	40.977	0.540	5.950	1.318	97.600
119	5.950	19.521	32.540	32.556	0.663	2.630	2.036	78.300
120	6.000	19.685	27.270	27.266	0.717	-0.590	2.630	70.400
121	6.050	19.849	18.640	18.652	0.662	1.890	3.549	57.500
122	6.100	20.013	34.360	34.474	0.791	18.210	2.295	40.500
123	6.150	20.177	39.040	39.055	0.889	2.360	2.276	44.700
124	6.200	20.341	44.560	44.605	0.875	7.230	1.962	36.700
125	6.250	20.505	31.530	31.648	1.086	18.970	3.431	36.000
126	6.300	20.669	37.330	37.502	0.932	27.550	2.485	43.100
127	6.350	20.833	67.600	67.707	1.342	17.140	1.982	41.300
128	6.400	20.997	158.020	158.129	1.854	17.390	1.172	43.500
129	6.450	21.161	118.170	118.425	2.011	40.790	1.698	36.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	96.540	96.719	2.177	28.680	2.251	42.400
131	6.550	21.489	137.900	137.974	1.345	11.840	0.975	39.300
132	6.600	21.653	138.050	138.084	1.397	5.440	1.012	47.900
133	6.650	21.817	146.500	146.558	2.738	9.220	1.868	50.700
134	6.700	21.981	217.270	217.390	2.083	19.250	0.958	59.800
135	6.750	22.145	391.800	391.902	4.326	16.410	1.104	58.800
136	6.800	22.309	367.660	367.778	4.931	18.860	1.341	57.300
137	6.850	22.473	352.500	352.633	4.053	21.260	1.149	49.500
138	6.900	22.638	283.490	283.605	2.279	18.420	0.804	43.900
139	6.950	22.802	308.050	308.159	2.461	17.460	0.799	57.000
140	7.000	22.966	290.830	290.941	3.637	17.820	1.250	57.000
141	7.050	23.130	118.520	118.625	2.250	16.800	1.897	42.100
142	7.100	23.294	92.730	92.818	1.226	14.110	1.321	43.200
143	7.150	23.458	126.210	126.328	1.817	18.930	1.438	38.800
144	7.200	23.622	144.160	144.250	3.914	14.470	2.713	40.900
145	7.250	23.786	107.760	107.774	0.986	2.310	0.915	38.700
146	7.300	23.950	106.390	106.409	1.018	3.060	0.957	39.000
147	7.350	24.114	76.250	76.250	1.743	0.030	2.286	36.700
148	7.400	24.278	110.550	110.547	1.531	-0.530	1.385	30.500
149	7.450	24.442	154.140	154.142	1.089	0.340	0.706	29.400
150	7.500	24.606	109.340	109.340	1.881	-0.030	1.720	26.700
151	7.550	24.770	100.630	100.633	1.414	0.470	1.405	23.400
152	7.600	24.934	106.710	106.712	1.346	0.300	1.261	21.600
153	7.650	25.098	111.580	111.597	0.853	2.750	0.764	20.500
154	7.700	25.262	48.170	48.177	0.756	1.050	1.569	20.500
155	7.750	25.426	61.830	61.852	1.131	3.570	1.829	19.000
156	7.800	25.590	80.800	80.808	1.359	1.360	1.682	21.900
157	7.850	25.754	40.760	40.765	5.266	0.810	12.918	11.900
158	7.900	25.918	45.530	45.531	5.257	0.100	11.546	17.300
159	7.950	26.082	118.090	118.089	3.572	-0.200	3.025	15.700
160	8.000	26.246	118.220	118.218	5.031	-0.300	4.256	16.900
161	8.050	26.410	191.880	191.876	3.370	-0.590	1.756	19.600
162	8.100	26.574	169.910	169.907	3.618	-0.500	2.129	21.000
163	8.150	26.739	104.900	104.899	1.994	-0.210	1.901	16.300
164	8.200	26.903	71.450	71.444	1.305	-0.920	1.827	19.300
165	8.250	27.067	87.880	87.877	1.562	-0.470	1.777	18.800
166	8.300	27.231	120.480	120.470	1.881	-1.530	1.561	16.100
167	8.350	27.395	253.220	253.218	4.487	-0.350	1.772	17.000
168	8.400	27.559	264.380	264.377	4.872	-0.530	1.843	18.200
169	8.450	27.723	188.970	188.966	4.390	-0.610	2.323	21.700
170	8.500	27.887	76.740	76.737	2.997	-0.510	3.906	26.300
171	8.550	28.051	29.630	29.630	0.877	-0.030	2.960	22.800
172	8.600	28.215	21.690	21.669	0.329	-3.340	1.518	29.200
173	8.650	28.379	20.350	20.366	0.191	2.590	0.938	24.800
174	8.700	28.543	26.310	26.351	0.111	6.540	0.421	30.600
175	8.750	28.707	56.880	56.909	0.237	4.680	0.416	24.700
176	8.800	28.871	58.480	58.497	0.514	2.650	0.879	26.900
177	8.850	29.035	56.640	56.653	0.353	2.080	0.623	19.100
178	8.900	29.199	56.000	56.002	0.875	0.340	1.562	25.400
179	8.950	29.363	53.560	53.579	1.174	3.020	2.191	20.700
180	9.000	29.527	55.990	56.017	1.111	4.330	1.983	17.100
181	9.050	29.691	52.090	52.124	1.466	5.420	2.813	27.500
182	9.100	29.855	52.790	52.833	1.469	6.900	2.780	26.600
183	9.150	30.019	37.560	37.634	1.862	11.790	4.948	28.500
184	9.200	30.183	27.000	27.083	1.535	13.260	5.668	37.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	35.500	35.579	0.885	12.710	2.487	50.700
186	9.300	30.511	176.270	176.327	2.138	9.140	1.213	57.300
187	9.350	30.675	147.560	147.599	2.433	6.320	1.648	50.500
188	9.400	30.840	129.830	129.863	2.438	5.330	1.877	61.300
189	9.450	31.004	114.120	114.159	3.103	6.190	2.718	54.500
190	9.500	31.168	102.630	102.657	1.892	4.310	1.843	66.400
191	9.550	31.332	76.780	76.807	2.192	4.280	2.854	70.600
192	9.600	31.496	64.190	64.213	2.031	3.710	3.163	84.800
193	9.650	31.660	31.430	31.461	1.531	4.920	4.866	96.200
194	9.700	31.824	25.110	25.160	1.054	7.990	4.189	100.600
195	9.750	31.988	25.140	25.209	0.863	10.990	3.423	109.000
196	9.800	32.152	27.220	27.305	1.049	13.550	3.842	114.900
197	9.850	32.316	27.320	27.410	1.243	14.350	4.535	109.400
198	9.900	32.480	27.200	27.291	1.410	14.640	5.166	124.400
199	9.950	32.644	26.590	26.681	1.439	14.560	5.393	104.600
200	10.000	32.808	25.720	25.814	1.402	15.090	5.431	122.700
201	10.050	32.972	24.980	25.074	1.369	15.070	5.460	103.700
202	10.100	33.136	24.960	25.053	1.329	14.920	5.305	112.000
203	10.150	33.300	25.320	25.414	1.369	15.030	5.387	105.400
204	10.200	33.464	25.890	25.983	1.360	14.960	5.234	110.800
205	10.250	33.628	26.770	26.860	1.377	14.390	5.127	102.700
206	10.300	33.792	26.870	26.960	1.242	14.370	4.607	105.300
207	10.350	33.956	25.820	25.906	1.052	13.840	4.061	104.400
208	10.400	34.120	25.810	25.897	0.869	13.890	3.356	98.800
209	10.450	34.284	23.790	23.877	0.812	13.930	3.401	99.700
210	10.500	34.448	24.770	24.862	0.800	14.720	3.218	104.000
211	10.550	34.612	27.120	27.213	0.772	14.860	2.837	90.400
212	10.600	34.776	32.360	32.456	0.772	15.350	2.379	94.100
213	10.650	34.941	38.900	38.985	0.857	13.650	2.198	101.100
214	10.700	35.105	44.620	44.698	0.757	12.470	1.694	97.800
215	10.750	35.269	56.000	56.075	0.791	11.940	1.411	96.100
216	10.800	35.433	72.060	72.130	1.009	11.280	1.399	91.200
217	10.850	35.597	109.080	109.153	1.070	11.650	0.980	85.200
218	10.900	35.761	184.840	184.923	1.271	13.360	0.687	74.400
219	10.950	35.925	213.640	213.718	1.556	12.570	0.728	68.200
220	11.000	36.089	212.450	212.522	1.820	11.530	0.856	71.100
221	11.050	36.253	216.170	216.239	2.171	11.020	1.004	70.800
222	11.100	36.417	225.000	225.068	2.231	10.820	0.991	64.000
223	11.150	36.581	228.160	228.226	2.658	10.540	1.165	59.200
224	11.200	36.745	209.790	209.857	2.702	10.760	1.288	61.900
225	11.250	36.909	184.250	184.308	2.664	9.310	1.445	60.500
226	11.300	37.073	165.530	165.585	2.367	8.790	1.429	61.500
227	11.350	37.237	125.250	125.298	1.890	7.720	1.508	0.000
228	11.400	37.401	102.540	102.585	1.435	7.220	1.399	0.000
229	11.450	37.565	92.390	92.435	1.118	7.150	1.210	0.000
230	11.500	37.729	93.750	93.795	1.160	7.150	1.237	0.000
231	11.550	37.893	101.740	101.785	1.065	7.210	1.046	0.000
232	11.600	38.057	95.710	95.755	1.130	7.270	1.180	0.000
233	11.650	38.221	121.340	121.389	1.117	7.830	0.920	0.000
234	11.700	38.385	121.770	121.818	0.973	7.710	0.799	0.000
235	11.750	38.549	112.110	112.155	0.921	7.240	0.821	0.000
236	11.800	38.713	130.700	130.747	0.900	7.510	0.688	0.000
237	11.850	38.877	157.800	157.849	1.147	7.850	0.727	0.000
238	11.900	39.042	188.210	188.264	1.653	8.610	0.878	0.000
239	11.950	39.206	245.540	245.602	1.832	9.930	0.746	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	284.160	284.228	2.317	10.970	0.815	0.000
241	12.050	39.534	260.060	260.125	0.000	10.370	0.000	0.000
242	12.100	39.698	294.890	294.957	0.000	10.780	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221469
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1-1
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-25-2013
CPT Time:	09:56
CPT File:	13-53075_GP1-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722008.887
Northing / Lat:	4294237.064
Elevation:	143.452
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.450	1.455	0.004	0.780	0.275	87.600
2	0.100	0.328	5.930	5.964	0.003	5.410	0.050	84.900
3	0.150	0.492	16.380	16.429	0.043	7.890	0.262	91.600
4	0.200	0.656	19.770	19.809	0.080	6.310	0.404	92.600
5	0.250	0.820	18.220	18.237	0.099	2.800	0.543	93.100
6	0.300	0.984	16.510	16.523	0.149	2.090	0.902	98.100
7	0.350	1.148	17.970	17.984	0.191	2.320	1.062	104.300
8	0.400	1.312	18.040	18.053	0.165	2.120	0.914	92.500
9	0.450	1.476	15.290	15.301	0.131	1.710	0.856	91.200
10	0.500	1.640	18.100	18.109	0.088	1.460	0.486	77.400
11	0.550	1.804	18.360	18.367	0.050	1.090	0.272	91.900
12	0.600	1.968	16.950	16.955	0.057	0.770	0.336	88.300
13	0.650	2.133	14.340	14.354	0.115	2.270	0.801	84.400
14	0.700	2.297	14.620	14.628	0.102	1.210	0.697	93.400
15	0.750	2.461	13.290	13.313	0.162	3.720	1.217	93.100
16	0.800	2.625	8.370	8.379	0.230	1.440	2.745	96.300
17	0.850	2.789	9.170	9.140	0.098	-4.730	1.072	84.800
18	0.900	2.953	13.350	13.354	0.074	0.650	0.554	82.400
19	0.950	3.117	15.930	15.960	0.142	4.730	0.890	81.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	11.250	11.270	0.234	3.150	2.076	80.300
21	1.050	3.445	12.980	13.011	0.387	4.960	2.974	70.700
22	1.100	3.609	24.530	24.548	0.617	2.960	2.513	75.600
23	1.150	3.773	27.300	27.286	0.625	-2.230	2.291	83.300
24	1.200	3.937	38.200	38.225	0.614	4.070	1.606	88.900
25	1.250	4.101	44.800	44.785	0.597	-2.470	1.333	98.500
26	1.300	4.265	47.770	47.757	0.556	-2.010	1.164	98.100
27	1.350	4.429	45.370	45.364	0.568	-1.020	1.252	87.800
28	1.400	4.593	44.340	44.338	0.618	-0.350	1.394	93.700
29	1.450	4.757	42.340	42.339	0.685	-0.090	1.618	84.600
30	1.500	4.921	30.880	30.879	0.734	-0.170	2.377	88.400
31	1.550	5.085	25.800	25.798	0.728	-0.370	2.822	80.200
32	1.600	5.249	23.600	23.587	0.665	-2.130	2.819	85.600
33	1.650	5.413	18.950	18.931	0.477	-3.110	2.520	78.100
34	1.700	5.577	13.070	13.031	0.265	-6.180	2.034	72.400
35	1.750	5.741	6.230	6.203	0.117	-4.400	1.886	77.800
36	1.800	5.905	3.150	3.134	0.039	-2.500	1.244	63.100
37	1.850	6.069	2.530	2.534	0.069	0.600	2.723	72.400
38	1.900	6.234	5.250	5.248	0.121	-0.270	2.306	71.000
39	1.950	6.398	10.530	10.546	0.210	2.510	1.991	78.200
40	2.000	6.562	11.550	11.553	0.278	0.470	2.406	71.100
41	2.050	6.726	11.500	11.461	0.349	-6.290	3.045	71.500
42	2.100	6.890	10.620	10.573	0.298	-7.510	2.818	58.900
43	2.150	7.054	14.300	14.248	0.328	-8.300	2.302	39.700
44	2.200	7.218	26.900	26.861	0.347	-6.170	1.292	31.300
45	2.250	7.382	12.190	12.194	0.391	0.570	3.207	28.500
46	2.300	7.546	11.200	11.202	0.377	0.300	3.366	32.400
47	2.350	7.710	10.380	10.400	0.463	3.260	4.452	30.000
48	2.400	7.874	22.930	22.930	0.464	-0.070	2.024	28.800
49	2.450	8.038	14.820	14.847	0.484	4.350	3.260	26.500
50	2.500	8.202	16.370	16.337	0.345	-5.250	2.112	32.200
51	2.550	8.366	12.780	12.850	0.271	11.160	2.109	33.200
52	2.600	8.530	7.110	7.142	0.193	5.050	2.703	35.900
53	2.650	8.694	8.760	8.892	0.128	21.170	1.439	44.200
54	2.700	8.858	7.330	7.340	0.134	1.640	1.826	59.200
55	2.750	9.022	5.610	5.646	0.130	5.740	2.303	69.700
56	2.800	9.186	3.370	3.438	0.184	10.840	5.352	65.200
57	2.850	9.350	9.610	9.686	0.192	12.140	1.982	70.000
58	2.900	9.514	17.420	17.424	0.296	0.670	1.699	80.500
59	2.950	9.678	11.680	11.638	0.454	-6.800	3.901	59.900
60	3.000	9.842	9.320	9.295	0.335	-3.930	3.604	48.000
61	3.050	10.006	25.310	25.278	0.436	-5.140	1.725	30.600
62	3.100	10.170	18.270	18.264	0.739	-0.920	4.046	35.900
63	3.150	10.335	10.440	10.470	0.464	4.840	4.432	22.300
64	3.200	10.499	53.050	53.096	0.705	7.320	1.328	23.600
65	3.250	10.663	18.300	18.190	0.580	-17.560	3.188	17.600
66	3.300	10.827	15.740	15.782	0.758	6.720	4.803	17.300
67	3.350	10.991	6.880	6.917	0.326	5.920	4.713	11.400
68	3.400	11.155	10.170	10.070	0.183	-16.040	1.817	15.700
69	3.450	11.319	7.420	7.451	0.209	4.940	2.805	21.300
70	3.500	11.483	18.920	18.948	0.370	4.480	1.953	19.200
71	3.550	11.647	12.400	12.436	0.406	5.830	3.265	20.100
72	3.600	11.811	14.470	14.504	0.401	5.460	2.765	24.100
73	3.650	11.975	10.880	10.918	0.313	6.140	2.867	22.700
74	3.700	12.139	9.970	10.013	0.303	6.890	3.026	19.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	19.270	19.267	0.238	-0.550	1.235	25.400
76	3.800	12.467	20.920	20.923	0.204	0.510	0.975	25.100
77	3.850	12.631	12.140	12.133	0.292	-1.140	2.407	26.200
78	3.900	12.795	24.510	24.525	0.272	2.400	1.109	31.000
79	3.950	12.959	25.870	25.907	0.234	5.920	0.903	37.500
80	4.000	13.123	17.140	17.174	0.326	5.390	1.898	51.900
81	4.050	13.287	16.720	16.642	0.235	-12.420	1.412	62.400
82	4.100	13.451	17.470	17.596	0.330	20.180	1.875	77.400
83	4.150	13.615	18.890	18.942	0.378	8.250	1.996	82.200
84	4.200	13.779	25.710	25.792	0.453	13.120	1.756	70.000
85	4.250	13.943	27.390	27.397	0.784	1.070	2.862	58.200
86	4.300	14.107	26.410	26.399	0.685	-1.750	2.595	55.000
87	4.350	14.271	33.360	33.265	0.692	-15.290	2.080	48.700
88	4.400	14.436	46.340	46.330	0.647	-1.600	1.397	38.600
89	4.450	14.600	31.490	31.495	0.897	0.860	2.848	29.100
90	4.500	14.764	35.650	35.663	0.685	2.110	1.921	23.500
91	4.550	14.928	33.920	33.932	0.414	1.880	1.220	21.100
92	4.600	15.092	18.990	19.003	0.585	2.110	3.078	18.800
93	4.650	15.256	23.400	23.448	0.450	7.610	1.919	17.600
94	4.700	15.420	9.980	9.994	0.438	2.320	4.382	29.100
95	4.750	15.584	9.370	9.371	0.159	0.090	1.697	34.500
96	4.800	15.748	22.100	22.103	0.188	0.500	0.851	24.700
97	4.850	15.912	89.820	89.870	1.001	7.960	1.114	21.300
98	4.900	16.076	71.530	71.581	1.179	8.220	1.647	21.100
99	4.950	16.240	21.220	21.229	1.165	1.370	5.488	26.200
100	5.000	16.404	17.050	17.053	0.332	0.450	1.947	19.300
101	5.050	16.568	18.040	18.061	0.307	3.290	1.700	19.400
102	5.100	16.732	35.060	35.069	0.176	1.380	0.502	24.800
103	5.150	16.896	74.360	74.368	0.839	1.220	1.128	21.200
104	5.200	17.060	82.440	82.502	1.548	9.880	1.876	35.700
105	5.250	17.224	62.660	62.830	1.215	27.180	1.934	32.600
106	5.300	17.388	61.410	61.975	0.874	90.560	1.410	39.300
107	5.350	17.552	22.680	22.716	0.673	5.720	2.963	56.300
108	5.400	17.716	21.770	21.834	0.499	10.230	2.285	60.000
109	5.450	17.880	15.680	15.802	0.531	19.580	3.360	68.200
110	5.500	18.044	24.090	24.443	0.444	56.600	1.816	46.100
111	5.550	18.208	33.340	33.404	0.275	10.270	0.823	56.300
112	5.600	18.372	28.000	27.993	0.255	-1.200	0.911	50.000
113	5.650	18.537	22.830	22.834	0.166	0.620	0.727	40.500
114	5.700	18.701	21.200	21.206	0.138	0.980	0.651	36.100
115	5.750	18.865	21.650	21.658	0.103	1.210	0.476	35.800
116	5.800	19.029	17.920	17.922	0.131	0.280	0.731	34.200
117	5.850	19.193	32.560	32.591	0.312	5.000	0.957	42.800
118	5.900	19.357	57.730	57.812	0.485	13.210	0.839	45.400
119	5.950	19.521	82.780	82.781	0.862	0.200	1.041	43.700
120	6.000	19.685	44.250	44.278	0.962	4.460	2.173	0.000
121	6.050	19.849	25.030	25.297	0.952	42.720	3.763	0.000
122	6.100	20.013	20.710	20.790	0.547	12.800	2.631	0.000
123	6.150	20.177	17.460	17.553	0.481	14.860	2.740	0.000
124	6.200	20.341	18.910	18.952	0.416	6.740	2.195	0.000
125	6.250	20.505	20.020	20.100	0.408	12.740	2.030	0.000
126	6.300	20.669	19.890	19.955	0.354	10.440	1.774	0.000
127	6.350	20.833	22.110	22.220	0.248	17.570	1.116	0.000
128	6.400	20.997	21.640	21.634	0.591	-0.910	2.732	0.000
129	6.450	21.161	46.180	46.178	0.706	-0.260	1.529	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	31.680	31.697	0.959	2.790	3.025	0.000
131	6.550	21.489	38.430	38.453	0.622	3.680	1.618	0.000
132	6.600	21.653	30.930	30.955	1.413	4.070	4.565	0.000
133	6.650	21.817	61.760	61.780	1.303	3.180	2.109	0.000
134	6.700	21.981	365.880	365.927	0.000	7.570	0.000	0.000
135	6.750	22.145	421.800	421.845	0.000	7.200	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221486
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1-2
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-25-2013
CPT Time:	09:55
CPT File:	13-53075_GP1-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722021.958
Northing / Lat:	4294222.480
Elevation:	143.666
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	7.780	7.796	0.059	2.620	0.757	77.200
2	0.100	0.328	12.430	12.443	0.091	2.060	0.731	90.600
3	0.150	0.492	13.520	13.531	0.126	1.740	0.931	100.500
4	0.200	0.656	14.410	14.417	0.149	1.190	1.033	108.100
5	0.250	0.820	14.480	14.496	0.219	2.520	1.511	91.700
6	0.300	0.984	13.540	13.549	0.272	1.500	2.007	97.300
7	0.350	1.148	17.450	17.462	0.232	1.980	1.329	102.300
8	0.400	1.312	12.760	12.777	0.150	2.710	1.174	95.700
9	0.450	1.476	13.710	13.716	0.174	0.980	1.269	108.500
10	0.500	1.640	12.930	12.936	0.160	0.900	1.237	105.400
11	0.550	1.804	9.450	9.461	0.178	1.810	1.881	99.700
12	0.600	1.968	8.890	8.897	0.168	1.080	1.888	96.900
13	0.650	2.133	8.810	8.825	0.251	2.400	2.844	77.000
14	0.700	2.297	10.360	10.374	0.390	2.310	3.759	82.800
15	0.750	2.461	17.630	17.649	0.499	3.050	2.827	85.500
16	0.800	2.625	29.570	29.598	0.647	4.540	2.186	97.000
17	0.850	2.789	33.910	33.942	0.676	5.130	1.992	93.300
18	0.900	2.953	31.380	31.396	0.615	2.590	1.959	90.000
19	0.950	3.117	25.100	25.114	0.489	2.310	1.947	85.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	22.050	22.061	0.448	1.740	2.031	79.000
21	1.050	3.445	21.710	21.724	0.434	2.260	1.998	88.400
22	1.100	3.609	23.840	23.860	0.436	3.190	1.827	91.800
23	1.150	3.773	27.850	27.871	0.393	3.370	1.410	81.700
24	1.200	3.937	29.050	29.058	0.341	1.210	1.174	100.700
25	1.250	4.101	29.550	29.557	0.343	1.070	1.160	99.500
26	1.300	4.265	27.450	27.456	0.316	0.950	1.151	93.700
27	1.350	4.429	23.150	23.160	0.268	1.640	1.157	84.800
28	1.400	4.593	17.730	17.732	0.349	0.380	1.968	88.000
29	1.450	4.757	16.290	16.296	0.254	0.990	1.559	87.700
30	1.500	4.921	26.790	26.771	0.250	-3.120	0.934	80.200
31	1.550	5.085	20.520	20.577	0.408	9.070	1.983	73.800
32	1.600	5.249	12.780	12.805	0.436	3.950	3.405	71.600
33	1.650	5.413	13.560	13.576	0.321	2.560	2.364	74.300
34	1.700	5.577	12.500	12.478	0.279	-3.590	2.236	87.400
35	1.750	5.741	14.290	14.256	0.269	-5.450	1.887	74.300
36	1.800	5.905	11.790	11.754	0.244	-5.770	2.076	58.800
37	1.850	6.069	12.000	11.977	0.204	-3.760	1.703	50.400
38	1.900	6.234	18.510	18.531	0.256	3.440	1.381	53.100
39	1.950	6.398	19.940	20.001	0.359	9.800	1.795	45.400
40	2.000	6.562	17.340	17.384	0.319	7.040	1.835	52.900
41	2.050	6.726	13.990	14.015	0.264	3.930	1.884	58.000
42	2.100	6.890	9.840	9.859	0.185	3.100	1.876	62.000
43	2.150	7.054	7.150	7.164	0.152	2.220	2.122	57.700
44	2.200	7.218	7.050	7.068	0.131	2.920	1.853	61.000
45	2.250	7.382	6.490	6.490	0.114	0.000	1.757	61.500
46	2.300	7.546	7.800	7.801	0.111	0.160	1.423	55.100
47	2.350	7.710	11.730	11.743	0.145	2.140	1.235	53.900
48	2.400	7.874	4.690	4.674	0.158	-2.500	3.380	53.200
49	2.450	8.038	4.900	4.922	0.095	3.510	1.930	52.200
50	2.500	8.202	10.550	10.577	0.086	4.280	0.813	37.300
51	2.550	8.366	25.470	25.513	0.167	6.860	0.655	46.500
52	2.600	8.530	43.570	43.606	0.407	5.750	0.933	65.100
53	2.650	8.694	25.590	25.653	0.403	10.090	1.571	65.900
54	2.700	8.858	10.640	10.689	0.447	7.820	4.182	81.900
55	2.750	9.022	16.030	16.064	0.261	5.480	1.625	87.100
56	2.800	9.186	21.250	21.267	0.378	2.740	1.777	85.500
57	2.850	9.350	22.070	22.086	0.453	2.500	2.051	95.600
58	2.900	9.514	19.060	19.060	0.528	0.020	2.770	95.100
59	2.950	9.678	17.300	17.286	0.564	-2.190	3.263	89.400
60	3.000	9.842	17.960	17.932	0.565	-4.550	3.151	85.900
61	3.050	10.006	17.840	17.802	0.577	-6.060	3.241	63.900
62	3.100	10.170	15.720	15.675	0.521	-7.280	3.324	55.800
63	3.150	10.335	25.240	25.198	0.592	-6.700	2.349	38.800
64	3.200	10.499	26.110	26.075	0.540	-5.680	2.071	39.500
65	3.250	10.663	24.940	24.956	0.782	2.640	3.133	23.500
66	3.300	10.827	78.130	78.168	1.169	6.050	1.496	20.700
67	3.350	10.991	143.090	143.364	1.612	43.890	1.124	14.300
68	3.400	11.155	154.280	154.472	1.619	30.770	1.048	16.000
69	3.450	11.319	107.850	107.866	1.361	2.580	1.262	11.300
70	3.500	11.483	84.170	84.168	0.966	-0.360	1.148	16.600
71	3.550	11.647	62.490	62.508	0.903	2.900	1.445	10.600
72	3.600	11.811	66.290	66.289	1.006	-0.130	1.518	10.700
73	3.650	11.975	26.290	26.310	0.785	3.200	2.984	13.000
74	3.700	12.139	37.610	37.620	0.615	1.600	1.635	11.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	62.310	62.328	0.521	2.860	0.836	15.500
76	3.800	12.467	25.720	25.766	0.865	7.330	3.357	15.200
77	3.850	12.631	18.670	18.690	0.691	3.130	3.697	18.400
78	3.900	12.795	29.210	29.210	0.411	-0.080	1.407	24.600
79	3.950	12.959	20.090	20.179	0.295	14.320	1.462	29.200
80	4.000	13.123	16.210	16.262	0.320	8.390	1.968	33.700
81	4.050	13.287	32.260	32.291	0.422	4.940	1.307	39.800
82	4.100	13.451	37.220	37.269	0.385	7.910	1.033	51.800
83	4.150	13.615	15.480	15.516	0.293	5.710	1.888	65.600
84	4.200	13.779	10.190	10.240	0.268	8.060	2.617	68.300
85	4.250	13.943	17.800	17.863	0.308	10.100	1.724	76.800
86	4.300	14.107	24.000	24.090	0.443	14.420	1.839	77.000
87	4.350	14.271	21.330	21.359	0.581	4.660	2.720	69.900
88	4.400	14.436	21.300	21.436	0.649	21.850	3.028	85.100
89	4.450	14.600	20.320	20.421	0.688	16.140	3.369	57.600
90	4.500	14.764	17.640	17.643	0.658	0.540	3.729	55.100
91	4.550	14.928	17.060	17.048	0.642	-1.930	3.766	37.200
92	4.600	15.092	37.820	37.816	0.653	-0.650	1.727	29.300
93	4.650	15.256	50.650	51.124	0.681	75.870	1.332	22.900
94	4.700	15.420	55.090	55.114	0.957	3.900	1.736	20.700
95	4.750	15.584	41.420	41.452	0.992	5.160	2.393	21.900
96	4.800	15.748	44.380	44.700	1.177	51.190	2.633	17.700
97	4.850	15.912	70.030	70.066	1.385	5.780	1.977	24.900
98	4.900	16.076	29.890	29.901	1.054	1.830	3.525	24.800
99	4.950	16.240	19.200	19.195	0.852	-0.740	4.439	23.600
100	5.000	16.404	20.330	20.339	0.730	1.500	3.589	23.400
101	5.050	16.568	23.000	23.078	0.701	12.570	3.037	17.100
102	5.100	16.732	18.820	18.931	0.877	17.720	4.633	15.400
103	5.150	16.896	23.270	23.597	1.021	52.330	4.327	19.200
104	5.200	17.060	20.940	21.064	1.017	19.890	4.828	19.400
105	5.250	17.224	24.110	24.243	0.848	21.360	3.498	21.800
106	5.300	17.388	23.400	23.718	1.015	50.930	4.279	23.700
107	5.350	17.552	23.470	23.558	0.947	14.150	4.020	25.400
108	5.400	17.716	39.160	39.188	0.717	4.470	1.830	28.100
109	5.450	17.880	59.970	59.995	1.041	4.080	1.735	32.200
110	5.500	18.044	47.380	47.406	0.929	4.220	1.960	31.900
111	5.550	18.208	44.510	44.534	0.916	3.870	2.057	38.600
112	5.600	18.372	64.980	65.037	0.906	9.120	1.393	45.400
113	5.650	18.537	39.980	40.047	0.748	10.790	1.868	57.400
114	5.700	18.701	22.490	22.562	0.853	11.550	3.781	63.300
115	5.750	18.865	22.530	22.561	0.627	5.030	2.779	82.500
116	5.800	19.029	26.240	26.299	0.717	9.480	2.726	83.500
117	5.850	19.193	25.830	25.841	0.758	1.790	2.933	80.700
118	5.900	19.357	26.740	26.784	0.780	7.010	2.912	87.300
119	5.950	19.521	30.360	30.394	0.760	5.430	2.501	99.800
120	6.000	19.685	38.370	38.377	0.681	1.190	1.774	92.200
121	6.050	19.849	41.740	41.730	0.698	-1.640	1.673	95.800
122	6.100	20.013	40.170	40.155	0.810	-2.330	2.017	77.600
123	6.150	20.177	38.630	38.625	0.878	-0.840	2.273	100.800
124	6.200	20.341	43.350	43.369	0.806	3.050	1.858	95.200
125	6.250	20.505	79.910	79.970	1.057	9.680	1.322	96.100
126	6.300	20.669	82.610	82.625	1.749	2.370	2.117	88.500
127	6.350	20.833	68.470	68.489	1.584	2.970	2.313	103.100
128	6.400	20.997	100.180	100.324	1.279	23.010	1.275	86.800
129	6.450	21.161	134.320	134.544	1.668	35.890	1.240	91.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	149.510	149.513	1.994	0.550	1.334	103.600
131	6.550	21.489	136.070	136.101	2.367	4.950	1.739	91.300
132	6.600	21.653	90.790	90.824	2.717	5.460	2.991	90.000
133	6.650	21.817	70.640	70.685	2.507	7.270	3.547	95.600
134	6.700	21.981	68.670	68.805	2.149	21.560	3.123	91.500
135	6.750	22.145	63.550	63.592	1.709	6.770	2.687	96.900
136	6.800	22.309	63.740	63.751	1.439	1.790	2.257	97.800
137	6.850	22.473	65.140	65.144	1.313	0.650	2.016	98.600
138	6.900	22.638	64.570	64.590	1.436	3.250	2.223	98.800
139	6.950	22.802	59.670	59.698	1.590	4.440	2.663	95.700
140	7.000	22.966	57.810	57.860	1.634	8.040	2.824	123.200
141	7.050	23.130	57.740	57.792	1.575	8.360	2.725	134.300
142	7.100	23.294	59.480	59.532	1.430	8.250	2.402	146.100
143	7.150	23.458	58.960	58.993	1.255	5.210	2.127	186.100
144	7.200	23.622	53.260	53.265	1.010	0.820	1.896	265.400
145	7.250	23.786	46.290	46.285	0.843	-0.770	1.821	433.900
146	7.300	23.950	44.530	44.527	1.032	-0.530	2.318	686.100
147	7.350	24.114	34.840	34.832	0.871	-1.230	2.501	954.200
148	7.400	24.278	57.790	57.838	1.477	7.760	2.554	1120.000
149	7.450	24.442	60.440	60.470	1.615	4.840	2.671	1131.300
150	7.500	24.606	22.320	22.395	1.481	12.010	6.613	1052.300
151	7.550	24.770	30.390	30.397	1.185	1.160	3.898	803.000
152	7.600	24.934	28.930	29.028	0.883	15.670	3.042	577.400
153	7.650	25.098	23.280	23.394	0.878	18.220	3.753	359.900
154	7.700	25.262	21.150	21.175	0.687	4.010	3.244	228.800
155	7.750	25.426	20.210	20.228	0.882	2.850	4.360	145.600
156	7.800	25.590	38.690	38.695	0.643	0.740	1.662	107.400
157	7.850	25.754	67.770	67.861	1.057	14.650	1.558	72.100
158	7.900	25.918	93.840	93.941	1.251	16.240	1.332	77.500
159	7.950	26.082	91.170	91.227	1.440	9.170	1.578	72.800
160	8.000	26.246	84.560	84.582	1.298	3.500	1.535	66.400
161	8.050	26.410	117.120	117.251	1.347	20.910	1.149	53.900
162	8.100	26.574	183.550	183.670	2.418	19.230	1.316	44.100
163	8.150	26.739	194.110	194.152	3.850	6.800	1.983	39.600
164	8.200	26.903	206.640	206.708	4.318	10.940	2.089	31.600
165	8.250	27.067	221.000	221.094	4.827	14.980	2.183	32.200
166	8.300	27.231	236.790	236.851	5.854	9.700	2.472	0.000
167	8.350	27.395	109.460	109.510	5.519	7.930	5.040	0.000
168	8.400	27.559	145.360	145.406	4.473	7.380	3.076	0.000
169	8.450	27.723	115.350	115.414	2.696	10.210	2.336	0.000
170	8.500	27.887	114.010	114.069	3.009	9.410	2.638	0.000
171	8.550	28.051	194.120	194.120	3.101	0.030	1.597	0.000
172	8.600	28.215	295.700	295.782	3.996	13.140	1.351	0.000
173	8.650	28.379	196.220	196.290	4.085	11.240	2.081	0.000
174	8.700	28.543	145.130	145.189	3.839	9.440	2.644	0.000
175	8.750	28.707	96.730	96.783	3.038	8.460	3.139	0.000
176	8.800	28.871	84.800	84.902	1.908	16.290	2.247	27.800
177	8.850	29.035	119.980	120.025	2.345	7.130	1.954	27.100
178	8.900	29.199	83.250	83.289	1.548	6.190	1.859	32.900
179	8.950	29.363	61.850	61.846	1.406	-0.720	2.273	39.600
180	9.000	29.527	52.840	52.871	1.022	5.030	1.933	37.900
181	9.050	29.691	38.390	38.393	0.979	0.410	2.550	29.500
182	9.100	29.855	39.230	39.246	0.802	2.530	2.044	39.000
183	9.150	30.019	23.390	23.457	0.508	10.660	2.166	41.600
184	9.200	30.183	20.160	20.338	0.518	28.570	2.547	43.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	25.940	26.056	0.610	18.520	2.341	45.400
186	9.300	30.511	29.050	29.330	1.031	44.920	3.515	48.200
187	9.350	30.675	87.530	87.571	1.418	6.590	1.619	57.100
188	9.400	30.840	119.760	119.764	2.657	0.720	2.219	64.500
189	9.450	31.004	58.530	58.510	2.584	-3.130	4.416	94.600
190	9.500	31.168	30.520	30.614	2.144	15.020	7.003	90.000
191	9.550	31.332	29.960	30.160	1.350	32.110	4.476	95.400
192	9.600	31.496	28.840	28.999	1.394	25.480	4.807	85.900
193	9.650	31.660	28.500	28.598	1.393	15.700	4.871	107.700
194	9.700	31.824	26.900	27.104	1.381	32.650	5.095	109.900
195	9.750	31.988	26.030	26.250	1.336	35.240	5.090	107.700
196	9.800	32.152	25.040	25.219	1.306	28.720	5.179	109.000
197	9.850	32.316	24.380	24.537	1.287	25.220	5.245	103.900
198	9.900	32.480	23.800	23.962	1.270	25.960	5.300	97.700
199	9.950	32.644	22.990	23.123	1.252	21.260	5.415	96.800
200	10.000	32.808	22.300	22.384	1.247	13.460	5.571	99.100
201	10.050	32.972	20.240	20.295	1.228	8.760	6.051	96.100
202	10.100	33.136	20.140	20.199	1.143	9.390	5.659	102.800
203	10.150	33.300	20.590	20.625	1.111	5.670	5.387	95.900
204	10.200	33.464	21.700	21.720	1.046	3.140	4.816	95.000
205	10.250	33.628	31.270	31.282	1.114	1.990	3.561	93.900
206	10.300	33.792	48.920	48.920	1.136	-0.040	2.322	96.300
207	10.350	33.956	79.090	79.110	1.170	3.270	1.479	107.400
208	10.400	34.120	112.520	112.553	1.159	5.350	1.030	97.400
209	10.450	34.284	137.860	137.921	1.415	9.720	1.026	98.700
210	10.500	34.448	166.320	166.389	1.711	11.100	1.028	85.100
211	10.550	34.612	184.030	184.096	1.782	10.510	0.968	92.900
212	10.600	34.776	192.440	192.509	2.058	11.000	1.069	87.200
213	10.650	34.941	191.870	191.947	2.267	12.280	1.181	87.500
214	10.700	35.105	180.300	180.362	2.401	10.000	1.331	84.900
215	10.750	35.269	166.060	166.115	2.461	8.810	1.482	90.900
216	10.800	35.433	155.260	155.316	2.363	8.960	1.521	90.100
217	10.850	35.597	150.130	150.186	2.306	9.040	1.535	101.000
218	10.900	35.761	154.470	154.532	2.247	10.010	1.454	92.300
219	10.950	35.925	158.730	158.793	2.270	10.110	1.430	87.100
220	11.000	36.089	169.740	169.808	2.272	10.820	1.338	95.900
221	11.050	36.253	174.530	174.600	2.254	11.150	1.291	90.100
222	11.100	36.417	174.050	174.119	2.256	11.080	1.296	82.200
223	11.150	36.581	164.540	164.610	2.281	11.200	1.386	88.800
224	11.200	36.745	149.390	149.450	2.230	9.690	1.492	86.900
225	11.250	36.909	131.720	131.775	2.012	8.780	1.527	84.400
226	11.300	37.073	120.330	120.373	1.793	6.910	1.490	78.100
227	11.350	37.237	117.580	117.629	1.589	7.800	1.351	92.100
228	11.400	37.401	117.010	117.058	1.624	7.670	1.387	77.000
229	11.450	37.565	118.050	118.104	1.686	8.670	1.428	75.300
230	11.500	37.729	112.640	112.687	1.642	7.600	1.457	76.300
231	11.550	37.893	100.060	100.102	1.352	6.660	1.351	0.000
232	11.600	38.057	88.230	88.256	1.233	4.160	1.397	0.000
233	11.650	38.221	79.320	79.348	1.203	4.470	1.516	0.000
234	11.700	38.385	65.570	65.588	1.543	2.850	2.353	0.000
235	11.750	38.549	67.880	67.919	1.668	6.270	2.456	0.000
236	11.800	38.713	69.260	69.338	1.718	12.540	2.478	0.000
237	11.850	38.877	149.610	149.825	1.455	34.440	0.971	0.000
238	11.900	39.042	191.100	191.140	1.365	6.340	0.714	0.000
239	11.950	39.206	189.780	189.813	1.245	5.330	0.656	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	177.920	177.946	1.402	4.160	0.788	0.000
241	12.050	39.534	172.310	172.337	1.402	4.320	0.814	0.000
242	12.100	39.698	176.330	176.361	1.559	4.950	0.884	0.000
243	12.150	39.862	187.920	187.960	1.598	6.470	0.850	0.000
244	12.200	40.026	205.130	205.164	1.674	5.380	0.816	0.000
245	12.250	40.190	289.510	289.562	0.000	8.250	0.000	0.000
246	12.300	40.354	291.310	291.365	0.000	8.800	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221520
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-1
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	12:19
CPT File:	13-53075_GP2-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722024.430
Northing / Lat:	4294261.760
Elevation:	143.990
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	7.610	7.622	0.012	1.990	0.157	41.200
2	0.100	0.328	19.610	19.627	0.146	2.730	0.744	51.000
3	0.150	0.492	22.030	22.052	0.284	3.500	1.288	59.200
4	0.200	0.656	24.880	24.897	0.429	2.710	1.723	66.600
5	0.250	0.820	27.710	27.723	0.605	2.100	2.182	83.600
6	0.300	0.984	33.750	33.761	0.607	1.840	1.798	82.500
7	0.350	1.148	38.330	38.337	0.664	1.140	1.732	68.800
8	0.400	1.312	30.110	30.110	1.039	0.040	3.451	65.400
9	0.450	1.476	85.380	85.380	0.905	0.030	1.060	55.900
10	0.500	1.640	141.940	141.941	0.969	0.170	0.683	70.600
11	0.550	1.804	169.940	169.947	1.129	1.070	0.664	65.700
12	0.600	1.968	153.680	153.686	1.039	0.930	0.676	75.200
13	0.650	2.133	117.360	117.366	1.114	0.950	0.949	71.900
14	0.700	2.297	85.480	85.485	1.187	0.800	1.389	71.800
15	0.750	2.461	65.680	65.686	1.310	0.980	1.994	80.300
16	0.800	2.625	61.880	61.888	1.392	1.230	2.249	83.000
17	0.850	2.789	74.330	74.341	1.445	1.810	1.944	90.200
18	0.900	2.953	75.170	75.181	1.843	1.700	2.451	78.500
19	0.950	3.117	101.160	101.176	2.121	2.630	2.096	83.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	123.170	123.190	2.103	3.160	1.707	93.500
21	1.050	3.445	119.600	119.616	2.111	2.550	1.765	90.000
22	1.100	3.609	88.730	88.746	2.327	2.510	2.622	80.300
23	1.150	3.773	69.380	69.394	2.399	2.310	3.457	78.700
24	1.200	3.937	56.100	56.114	2.061	2.320	3.673	79.700
25	1.250	4.101	53.810	53.828	1.672	2.890	3.106	74.700
26	1.300	4.265	56.100	56.117	1.609	2.750	2.867	70.300
27	1.350	4.429	42.200	42.212	1.447	1.970	3.428	64.400
28	1.400	4.593	34.230	34.239	1.259	1.490	3.677	61.600
29	1.450	4.757	35.550	35.557	0.807	1.080	2.270	56.900
30	1.500	4.921	60.600	60.608	0.747	1.210	1.233	56.500
31	1.550	5.085	106.760	106.779	0.379	3.120	0.355	46.900
32	1.600	5.249	87.680	87.699	0.483	3.100	0.551	47.100
33	1.650	5.413	79.180	79.196	0.812	2.620	1.025	35.400
34	1.700	5.577	77.500	77.517	1.077	2.660	1.389	38.800
35	1.750	5.741	93.950	93.970	0.978	3.220	1.041	30.900
36	1.800	5.905	147.420	147.451	1.112	4.950	0.754	32.400
37	1.850	6.069	189.220	189.247	1.023	4.400	0.541	27.600
38	1.900	6.234	149.180	149.204	0.748	3.770	0.501	26.400
39	1.950	6.398	119.160	119.182	0.863	3.540	0.724	30.300
40	2.000	6.562	111.830	111.850	1.393	3.200	1.245	30.900
41	2.050	6.726	115.160	115.181	0.461	3.370	0.400	30.200
42	2.100	6.890	117.720	117.740	0.498	3.260	0.423	36.800
43	2.150	7.054	71.390	71.413	0.663	3.740	0.928	46.500
44	2.200	7.218	29.180	29.211	0.936	4.980	3.204	53.000
45	2.250	7.382	41.410	41.444	0.923	5.440	2.227	55.000
46	2.300	7.546	18.900	18.947	0.720	7.560	3.800	73.800
47	2.350	7.710	9.530	9.582	0.463	8.330	4.832	54.800
48	2.400	7.874	11.440	11.495	0.506	8.770	4.402	41.800
49	2.450	8.038	19.110	19.167	0.376	9.060	1.962	35.900
50	2.500	8.202	59.880	59.939	0.766	9.480	1.278	26.100
51	2.550	8.366	65.970	66.047	1.299	12.270	1.967	15.700
52	2.600	8.530	57.010	57.071	1.676	9.730	2.937	15.800
53	2.650	8.694	61.280	61.343	1.222	10.070	1.992	13.600
54	2.700	8.858	55.930	55.988	1.065	9.330	1.902	17.300
55	2.750	9.022	61.560	61.616	0.919	8.980	1.491	13.600
56	2.800	9.186	91.940	91.996	1.635	8.930	1.777	20.400
57	2.850	9.350	67.430	67.476	1.646	7.310	2.439	15.700
58	2.900	9.514	20.620	20.658	0.772	6.070	3.737	15.700
59	2.950	9.678	6.620	6.669	0.986	7.810	14.785	13.500
60	3.000	9.842	26.160	26.215	0.490	8.860	1.869	13.100
61	3.050	10.006	36.630	36.679	0.445	7.780	1.213	13.100
62	3.100	10.170	6.400	6.447	0.416	7.530	6.453	20.400
63	3.150	10.335	14.510	14.548	0.341	6.140	2.344	16.900
64	3.200	10.499	29.450	29.489	0.260	6.270	0.882	16.700
65	3.250	10.663	33.820	33.854	0.302	5.420	0.892	14.700
66	3.300	10.827	8.640	8.672	0.303	5.050	3.494	18.900
67	3.350	10.991	10.010	10.044	0.180	5.520	1.792	20.800
68	3.400	11.155	27.590	27.621	0.306	5.020	1.108	20.600
69	3.450	11.319	31.840	31.869	0.322	4.700	1.010	15.100
70	3.500	11.483	22.230	22.257	0.358	4.400	1.608	24.100
71	3.550	11.647	17.640	17.657	0.457	2.760	2.588	25.000
72	3.600	11.811	23.560	23.577	0.435	2.710	1.845	29.200
73	3.650	11.975	67.490	67.509	0.418	2.980	0.619	32.400
74	3.700	12.139	51.910	51.931	0.555	3.440	1.069	43.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	26.150	26.168	0.455	2.960	1.739	65.700
76	3.800	12.467	26.950	26.970	0.305	3.210	1.131	72.800
77	3.850	12.631	32.530	32.551	0.337	3.290	1.035	67.200
78	3.900	12.795	27.570	27.589	0.438	3.060	1.588	68.700
79	3.950	12.959	24.480	24.494	0.246	2.210	1.004	48.900
80	4.000	13.123	97.750	97.764	0.688	2.320	0.704	49.000
81	4.050	13.287	132.730	132.743	0.574	2.030	0.432	55.400
82	4.100	13.451	95.510	95.522	1.440	1.990	1.507	67.500
83	4.150	13.615	65.690	65.701	1.646	1.770	2.505	74.200
84	4.200	13.779	33.350	33.365	1.556	2.360	4.664	80.100
85	4.250	13.943	44.330	44.369	1.596	6.180	3.597	65.900
86	4.300	14.107	56.520	56.563	1.565	6.950	2.767	46.700
87	4.350	14.271	71.830	71.869	1.972	6.200	2.744	35.900
88	4.400	14.436	77.220	77.259	1.776	6.180	2.299	27.200
89	4.450	14.600	54.440	54.486	1.421	7.430	2.608	21.400
90	4.500	14.764	63.360	63.406	1.240	7.330	1.956	18.700
91	4.550	14.928	47.860	47.890	0.928	4.880	1.938	15.100
92	4.600	15.092	34.080	34.108	1.287	4.550	3.773	12.800
93	4.650	15.256	51.640	51.666	1.358	4.140	2.628	13.900
94	4.700	15.420	67.910	67.939	1.767	4.630	2.601	8.200
95	4.750	15.584	137.080	137.110	1.444	4.840	1.053	9.400
96	4.800	15.748	192.930	192.961	1.790	4.890	0.928	11.500
97	4.850	15.912	104.530	104.556	1.861	4.180	1.780	10.900
98	4.900	16.076	97.370	97.393	1.560	3.710	1.602	10.400
99	4.950	16.240	302.720	302.746	1.563	4.220	0.516	14.000
100	5.000	16.404	293.000	293.050	2.124	8.010	0.725	16.400
101	5.050	16.568	87.920	87.987	2.387	10.780	2.713	16.800
102	5.100	16.732	158.400	158.490	2.368	14.490	1.494	19.700
103	5.150	16.896	102.860	102.955	2.631	15.220	2.555	28.500
104	5.200	17.060	71.260	71.340	2.325	12.800	3.259	32.100
105	5.250	17.224	63.920	63.995	1.332	12.010	2.081	39.700
106	5.300	17.388	52.960	53.037	1.005	12.370	1.895	47.700
107	5.350	17.552	75.030	75.108	0.783	12.560	1.042	68.800
108	5.400	17.716	78.670	78.750	0.907	12.820	1.152	75.300
109	5.450	17.880	68.070	68.142	0.979	11.540	1.437	84.300
110	5.500	18.044	58.970	59.037	1.133	10.770	1.919	89.800
111	5.550	18.208	63.100	63.162	1.261	9.930	1.996	74.000
112	5.600	18.372	57.840	57.894	1.001	8.650	1.729	74.100
113	5.650	18.537	73.230	73.278	1.177	7.680	1.606	67.700
114	5.700	18.701	121.350	121.400	1.435	8.030	1.182	53.600
115	5.750	18.865	52.540	52.589	2.077	7.860	3.949	58.800
116	5.800	19.029	52.900	52.946	1.601	7.440	3.024	60.200
117	5.850	19.193	30.860	30.915	1.345	8.820	4.351	78.800
118	5.900	19.357	51.750	51.821	1.101	11.320	2.125	70.200
119	5.950	19.521	64.090	64.154	1.879	10.260	2.929	71.900
120	6.000	19.685	65.700	65.758	3.224	9.290	4.903	55.900
121	6.050	19.849	163.740	163.805	1.604	10.470	0.979	44.400
122	6.100	20.013	93.360	93.408	1.764	7.630	1.888	34.100
123	6.150	20.177	72.880	72.897	1.747	2.690	2.397	22.700
124	6.200	20.341	61.630	61.650	1.423	3.260	2.308	20.200
125	6.250	20.505	28.800	28.817	0.905	2.780	3.140	15.000
126	6.300	20.669	49.000	49.014	0.751	2.320	1.532	12.800
127	6.350	20.833	65.630	65.644	0.846	2.280	1.289	13.500
128	6.400	20.997	47.560	47.572	1.206	1.970	2.535	12.700
129	6.450	21.161	86.040	86.052	0.799	1.980	0.929	10.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	56.860	56.872	1.235	1.900	2.172	5.500
131	6.550	21.489	32.780	32.783	1.345	0.430	4.103	8.100
132	6.600	21.653	123.570	123.590	2.076	3.140	1.680	6.900
133	6.650	21.817	149.480	149.500	3.413	3.140	2.283	7.300
134	6.700	21.981	113.850	113.884	3.019	5.440	2.651	9.700
135	6.750	22.145	68.160	68.191	3.014	4.930	4.420	5.300
136	6.800	22.309	280.020	280.052	5.050	5.170	1.803	7.200
137	6.850	22.473	258.590	258.619	6.053	4.660	2.341	7.600
138	6.900	22.638	137.620	137.648	5.620	4.540	4.083	6.500
139	6.950	22.802	60.120	60.142	3.705	3.570	6.160	6.800
140	7.000	22.966	110.100	110.119	2.804	3.020	2.546	8.000
141	7.050	23.130	139.360	139.380	3.256	3.210	2.336	12.300
142	7.100	23.294	68.910	68.935	3.967	4.020	5.755	13.000
143	7.150	23.458	47.330	47.344	3.367	2.190	7.112	12.000
144	7.200	23.622	44.500	44.506	1.733	1.020	3.894	20.700
145	7.250	23.786	53.810	53.836	1.484	4.180	2.757	25.900
146	7.300	23.950	35.970	35.997	1.108	4.390	3.078	30.700
147	7.350	24.114	31.000	31.029	0.645	4.720	2.079	55.500
148	7.400	24.278	19.160	19.169	0.504	1.500	2.629	71.800
149	7.450	24.442	15.210	15.223	0.468	2.010	3.074	58.700
150	7.500	24.606	34.020	34.048	0.464	4.560	1.363	65.700
151	7.550	24.770	33.770	33.802	0.854	5.100	2.526	61.000
152	7.600	24.934	49.370	49.448	0.982	12.430	1.986	54.900
153	7.650	25.098	49.300	49.373	1.168	11.670	2.366	56.100
154	7.700	25.262	30.040	30.097	1.146	9.170	3.808	62.300
155	7.750	25.426	21.480	21.503	0.820	3.750	3.813	51.700
156	7.800	25.590	37.410	37.431	0.577	3.410	1.541	48.500
157	7.850	25.754	27.410	27.430	0.500	3.140	1.823	46.400
158	7.900	25.918	15.270	15.282	0.723	1.860	4.731	55.800
159	7.950	26.082	35.550	35.577	0.690	4.380	1.939	49.300
160	8.000	26.246	24.810	24.842	0.759	5.090	3.055	57.200
161	8.050	26.410	20.330	20.364	0.587	5.490	2.882	82.900
162	8.100	26.574	13.260	13.287	0.496	4.260	3.733	80.700
163	8.150	26.739	14.130	14.184	0.531	8.690	3.744	73.400
164	8.200	26.903	18.810	18.862	0.847	8.380	4.490	63.700
165	8.250	27.067	46.960	46.994	1.189	5.470	2.530	61.600
166	8.300	27.231	55.390	55.407	1.260	2.680	2.274	61.800
167	8.350	27.395	13.630	13.673	1.112	6.810	8.133	69.800
168	8.400	27.559	13.600	13.658	0.425	9.220	3.112	64.000
169	8.450	27.723	15.910	15.964	0.358	8.680	2.243	60.700
170	8.500	27.887	15.380	15.436	0.395	8.970	2.559	60.800
171	8.550	28.051	16.340	16.398	0.455	9.330	2.775	54.500
172	8.600	28.215	14.680	14.712	0.578	5.190	3.929	53.400
173	8.650	28.379	20.390	20.418	0.379	4.540	1.856	48.600
174	8.700	28.543	13.200	13.233	0.475	5.240	3.590	42.800
175	8.750	28.707	45.850	45.888	0.896	6.050	1.953	36.300
176	8.800	28.871	64.310	64.328	1.142	2.930	1.775	41.400
177	8.850	29.035	40.640	40.674	1.480	5.500	3.639	57.600
178	8.900	29.199	43.520	43.587	1.516	10.770	3.478	46.500
179	8.950	29.363	40.190	40.242	1.111	8.250	2.761	35.700
180	9.000	29.527	15.920	15.937	1.124	2.750	7.053	32.300
181	9.050	29.691	18.370	18.392	0.888	3.460	4.828	24.900
182	9.100	29.855	207.610	207.685	0.937	12.070	0.451	21.300
183	9.150	30.019	307.900	307.954	1.326	8.730	0.431	32.000
184	9.200	30.183	313.530	313.576	2.328	7.300	0.742	39.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	143.160	143.196	2.757	5.820	1.925	52.400
186	9.300	30.511	106.320	106.371	2.433	8.180	2.287	51.100
187	9.350	30.675	68.580	68.640	1.973	9.590	2.874	50.200
188	9.400	30.840	71.930	71.993	1.238	10.120	1.720	51.400
189	9.450	31.004	29.470	29.523	0.717	8.540	2.429	47.700
190	9.500	31.168	18.070	18.121	0.473	8.120	2.610	45.000
191	9.550	31.332	12.200	12.246	0.195	7.300	1.592	39.400
192	9.600	31.496	2.000	2.015	0.146	2.430	7.245	49.200
193	9.650	31.660	13.680	13.689	0.325	1.470	2.374	45.700
194	9.700	31.824	14.860	14.869	0.480	1.480	3.228	59.800
195	9.750	31.988	13.400	13.421	0.616	3.300	4.590	51.800
196	9.800	32.152	13.950	13.969	0.636	3.010	4.553	48.500
197	9.850	32.316	17.770	17.786	0.739	2.600	4.155	55.200
198	9.900	32.480	24.980	24.995	0.799	2.380	3.197	55.800
199	9.950	32.644	34.900	34.908	0.855	1.240	2.449	49.400
200	10.000	32.808	48.230	48.222	0.924	-1.230	1.916	54.200
201	10.050	32.972	49.720	49.701	1.004	-3.120	2.020	43.100
202	10.100	33.136	39.340	39.322	1.012	-2.830	2.574	45.400
203	10.150	33.300	32.320	32.301	0.909	-3.100	2.814	50.200
204	10.200	33.464	29.240	29.216	0.773	-3.810	2.646	41.500
205	10.250	33.628	51.550	51.524	0.780	-4.110	1.514	38.700
206	10.300	33.792	36.640	36.621	1.096	-3.120	2.993	41.500
207	10.350	33.956	38.470	38.458	1.329	-1.930	3.456	33.100
208	10.400	34.120	48.590	48.580	1.296	-1.530	2.668	38.300
209	10.450	34.284	44.800	44.806	1.310	0.960	2.924	30.600
210	10.500	34.448	48.310	48.314	1.318	0.710	2.728	21.200
211	10.550	34.612	82.090	82.093	1.923	0.420	2.342	23.100
212	10.600	34.776	67.980	67.995	2.235	2.390	3.287	19.100
213	10.650	34.941	50.330	50.352	2.435	3.560	4.836	15.900
214	10.700	35.105	66.360	66.394	2.178	5.500	3.280	15.200
215	10.750	35.269	57.560	57.603	2.168	6.850	3.764	14.800
216	10.800	35.433	35.550	35.594	2.710	7.000	7.614	14.900
217	10.850	35.597	54.350	54.388	1.488	6.090	2.736	15.700
218	10.900	35.761	61.770	61.801	1.139	4.980	1.843	15.700
219	10.950	35.925	24.200	24.249	1.469	7.870	6.058	19.300
220	11.000	36.089	53.400	53.451	0.964	8.200	1.804	14.500
221	11.050	36.253	62.620	62.644	0.943	3.850	1.505	12.500
222	11.100	36.417	86.430	86.473	1.024	6.870	1.184	10.500
223	11.150	36.581	83.470	83.513	1.084	6.940	1.298	16.400
224	11.200	36.745	84.430	84.468	1.110	6.090	1.314	18.300
225	11.250	36.909	69.960	69.984	1.037	3.780	1.482	16.800
226	11.300	37.073	77.460	77.481	1.113	3.380	1.436	18.900
227	11.350	37.237	67.480	67.503	1.222	3.690	1.810	23.500
228	11.400	37.401	41.000	41.026	1.350	4.130	3.291	26.100
229	11.450	37.565	36.930	36.958	1.477	4.520	3.996	24.900
230	11.500	37.729	25.120	25.153	1.012	5.290	4.023	21.800
231	11.550	37.893	20.970	21.010	1.160	6.430	5.521	26.000
232	11.600	38.057	30.900	30.967	1.101	10.760	3.555	29.600
233	11.650	38.221	46.050	46.124	1.114	11.830	2.415	35.200
234	11.700	38.385	52.310	52.378	1.478	10.890	2.822	32.300
235	11.750	38.549	38.050	38.115	1.494	10.490	3.920	28.900
236	11.800	38.713	30.160	30.224	1.424	10.320	4.711	17.700
237	11.850	38.877	46.740	46.803	1.092	10.050	2.333	18.300
238	11.900	39.042	41.870	41.934	1.354	10.300	3.229	12.700
239	11.950	39.206	60.160	60.223	1.554	10.110	2.580	11.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	46.350	46.413	1.180	10.060	2.542	8.700
241	12.050	39.534	24.090	24.149	1.273	9.460	5.271	6.400
242	12.100	39.698	36.800	36.858	1.223	9.370	3.318	10.400
243	12.150	39.862	48.970	49.029	1.174	9.500	2.394	9.000
244	12.200	40.026	65.210	65.269	1.225	9.430	1.877	8.500
245	12.250	40.190	46.440	46.483	1.293	6.840	2.782	7.200
246	12.300	40.354	29.780	29.817	1.081	6.000	3.625	8.900
247	12.350	40.518	50.690	50.724	1.260	5.510	2.484	6.600
248	12.400	40.682	32.490	32.530	1.146	6.450	3.523	3.500
249	12.450	40.846	29.230	29.266	1.577	5.800	5.388	3.500
250	12.500	41.010	44.090	44.139	1.908	7.830	4.323	4.600
251	12.550	41.174	40.460	40.501	2.106	6.490	5.200	8.400
252	12.600	41.338	81.880	81.906	2.009	4.190	2.453	8.100
253	12.650	41.502	43.340	43.388	1.714	7.710	3.950	8.200
254	12.700	41.666	17.620	17.657	1.525	5.970	8.637	11.800
255	12.750	41.830	11.210	11.236	0.966	4.110	8.598	15.800
256	12.800	41.994	70.140	70.167	0.998	4.350	1.422	16.400
257	12.850	42.158	42.010	42.040	1.292	4.840	3.073	27.900
258	12.900	42.322	27.900	27.939	1.337	6.320	4.785	27.800
259	12.950	42.486	20.940	20.977	0.896	5.880	4.271	33.100
260	13.000	42.650	15.340	15.387	0.660	7.580	4.289	41.900
261	13.050	42.814	28.580	28.635	0.448	8.830	1.565	47.000
262	13.100	42.978	32.380	32.427	0.329	7.540	1.015	32.800
263	13.150	43.143	25.930	25.973	0.336	6.960	1.294	38.400
264	13.200	43.307	16.800	16.842	0.452	6.720	2.684	23.100
265	13.250	43.471	11.900	11.941	0.672	6.550	5.628	17.400
266	13.300	43.635	14.020	14.066	0.747	7.300	5.311	24.600
267	13.350	43.799	34.000	34.044	0.723	7.020	2.124	17.200
268	13.400	43.963	31.950	31.991	0.978	6.500	3.057	17.600
269	13.450	44.127	51.500	51.550	1.109	8.010	2.151	18.300
270	13.500	44.291	36.530	36.573	1.027	6.940	2.808	24.600
271	13.550	44.455	16.950	16.994	0.690	7.110	4.060	23.500
272	13.600	44.619	8.340	8.365	0.406	4.000	4.854	36.600
273	13.650	44.783	7.260	7.278	0.338	2.960	4.644	27.000
274	13.700	44.947	15.220	15.241	0.321	3.390	2.106	35.800
275	13.750	45.111	36.490	36.516	0.362	4.160	0.991	35.400
276	13.800	45.275	38.160	38.180	0.567	3.130	1.485	35.800
277	13.850	45.439	32.910	32.933	0.771	3.720	2.341	47.600
278	13.900	45.603	20.480	20.507	0.901	4.360	4.394	58.100
279	13.950	45.767	53.830	53.870	0.718	6.440	1.333	57.300
280	14.000	45.931	91.440	91.482	0.710	6.660	0.776	54.700
281	14.050	46.095	104.140	104.181	0.712	6.550	0.683	53.000
282	14.100	46.259	106.890	106.931	0.755	6.500	0.706	54.000
283	14.150	46.423	101.030	101.071	0.858	6.500	0.849	61.900
284	14.200	46.587	93.670	93.711	0.872	6.490	0.931	58.100
285	14.250	46.751	89.440	89.479	0.809	6.240	0.904	56.200
286	14.300	46.915	83.100	83.139	0.736	6.220	0.885	59.900
287	14.350	47.079	77.520	77.559	0.726	6.170	0.936	62.100
288	14.400	47.244	76.470	76.508	0.639	6.160	0.835	58.100
289	14.450	47.408	75.620	75.659	0.637	6.260	0.842	54.200
290	14.500	47.572	78.070	78.109	0.565	6.170	0.723	51.600
291	14.550	47.736	76.050	76.088	0.566	6.160	0.744	52.500
292	14.600	47.900	55.870	55.906	0.572	5.800	1.023	50.200
293	14.650	48.064	48.290	48.327	0.614	5.970	1.271	51.500
294	14.700	48.228	58.950	58.989	0.651	6.190	1.104	51.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	60.620	60.659	0.740	6.250	1.220	0.000
296	14.800	48.556	74.290	74.329	0.717	6.170	0.965	0.000
297	14.850	48.720	96.450	96.493	0.662	6.940	0.686	0.000
298	14.900	48.884	100.740	100.783	0.695	6.830	0.690	0.000
299	14.950	49.048	119.760	119.803	0.703	6.820	0.587	0.000
300	15.000	49.212	142.330	142.374	1.050	7.120	0.737	0.000
301	15.050	49.376	107.610	107.653	1.659	6.840	1.541	0.000
302	15.100	49.540	66.040	66.085	2.276	7.140	3.444	0.000
303	15.150	49.704	62.200	62.245	1.298	7.250	2.085	0.000
304	15.200	49.868	90.340	90.388	1.140	7.710	1.261	0.000
305	15.250	50.032	144.680	144.729	1.154	7.840	0.797	0.000
306	15.300	50.196	170.750	170.800	1.130	7.980	0.662	0.000
307	15.350	50.360	192.500	192.550	1.139	8.080	0.592	0.000
308	15.400	50.524	217.280	217.332	0.977	8.340	0.450	0.000
309	15.450	50.688	227.560	227.613	0.000	8.520	0.000	0.000
310	15.500	50.852	241.280	241.334	0.000	8.630	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221521
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	09:03
CPT File:	13-53075_GP2-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722035.113
Northing / Lat:	4294253.847
Elevation:	144.649
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.930	2.969	0.340	6.240	11.452	19.300
2	0.100	0.328	307.280	307.316	0.394	5.810	0.128	42.900
3	0.150	0.492	322.180	322.203	0.698	3.630	0.217	32.900
4	0.200	0.656	239.120	239.118	0.710	-0.250	0.297	41.200
5	0.250	0.820	182.060	182.052	1.232	-1.230	0.677	53.800
6	0.300	0.984	167.320	167.352	1.034	5.120	0.618	73.900
7	0.350	1.148	148.150	148.214	1.132	10.310	0.764	74.200
8	0.400	1.312	136.220	136.257	1.567	5.980	1.150	77.800
9	0.450	1.476	119.810	119.870	1.671	9.600	1.394	104.900
10	0.500	1.640	96.810	96.823	2.198	2.050	2.270	75.800
11	0.550	1.804	85.250	85.321	2.070	11.340	2.426	90.700
12	0.600	1.968	86.660	86.721	2.082	9.720	2.401	92.500
13	0.650	2.133	80.640	80.632	1.891	-1.250	2.345	100.300
14	0.700	2.297	82.280	82.265	1.787	-2.450	2.172	92.700
15	0.750	2.461	93.410	93.392	1.653	-2.920	1.770	88.300
16	0.800	2.625	95.770	95.743	1.776	-4.290	1.855	85.200
17	0.850	2.789	98.140	98.132	1.623	-1.280	1.654	80.100
18	0.900	2.953	90.230	90.199	1.340	-4.950	1.486	84.700
19	0.950	3.117	67.410	67.371	0.904	-6.310	1.342	80.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	46.700	46.671	0.678	-4.660	1.453	86.300
21	1.050	3.445	34.740	34.726	0.583	-2.220	1.679	73.900
22	1.100	3.609	24.120	24.127	0.620	1.170	2.570	72.500
23	1.150	3.773	23.910	23.910	0.517	0.010	2.162	79.000
24	1.200	3.937	23.210	23.209	0.396	-0.120	1.706	70.500
25	1.250	4.101	64.330	64.336	0.386	0.950	0.600	61.000
26	1.300	4.265	41.480	41.536	0.391	8.990	0.941	69.600
27	1.350	4.429	36.160	36.184	0.356	3.770	0.984	0.000
28	1.400	4.593	27.750	27.751	0.317	0.150	1.142	0.000
29	1.450	4.757	24.220	24.227	0.256	1.200	1.057	0.000
30	1.500	4.921	21.240	21.243	0.260	0.450	1.224	0.000
31	1.550	5.085	23.710	23.692	0.222	-2.920	0.937	0.000
32	1.600	5.249	11.930	11.948	0.131	2.920	1.096	0.000
33	1.650	5.413	12.430	12.421	0.206	-1.380	1.658	0.000
34	1.700	5.577	21.150	21.193	0.241	6.810	1.137	0.000
35	1.750	5.741	8.170	8.192	0.381	3.510	4.651	0.000
36	1.800	5.905	11.960	12.001	0.338	6.590	2.816	0.000
37	1.850	6.069	10.090	10.089	0.191	-0.150	1.893	0.000
38	1.900	6.234	13.280	13.277	0.250	-0.420	1.883	0.000
39	1.950	6.398	33.230	33.259	0.238	4.710	0.716	0.000
40	2.000	6.562	27.020	27.078	0.471	9.310	1.739	0.000
41	2.050	6.726	38.980	39.099	0.502	19.110	1.284	0.000
42	2.100	6.890	31.860	31.894	0.585	5.440	1.834	0.000
43	2.150	7.054	59.820	59.829	1.105	1.400	1.847	0.000
44	2.200	7.218	72.090	72.218	0.909	20.450	1.259	0.000
45	2.250	7.382	147.120	147.152	0.807	5.170	0.548	0.000
46	2.300	7.546	59.060	59.045	1.080	-2.470	1.829	0.000
47	2.350	7.710	40.070	40.070	0.794	-0.050	1.982	0.000
48	2.400	7.874	47.840	47.962	0.582	19.470	1.213	0.000
49	2.450	8.038	99.810	99.811	1.542	0.230	1.545	0.000
50	2.500	8.202	97.710	97.716	2.187	1.010	2.238	0.000
51	2.550	8.366	141.820	141.997	2.384	28.420	1.679	0.000
52	2.600	8.530	363.580	363.577	0.000	-0.410	0.000	0.000
53	2.650	8.694	395.880	395.870	0.000	-1.650	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221522
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-2A
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	10:44
CPT File:	13-53075_GP2-2A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722038.868
Northing / Lat:	4294252.387
Elevation:	144.752
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	284.650	284.782	0.491	21.140	0.172	34.000
2	0.100	0.328	320.850	320.880	0.653	4.880	0.204	36.700
3	0.150	0.492	263.460	263.496	0.914	5.780	0.347	56.500
4	0.200	0.656	179.640	179.665	1.352	3.960	0.753	59.900
5	0.250	0.820	172.390	172.413	1.728	3.660	1.002	63.100
6	0.300	0.984	158.690	158.740	2.285	8.060	1.439	81.000
7	0.350	1.148	160.320	160.375	2.893	8.820	1.804	84.800
8	0.400	1.312	162.020	162.054	2.654	5.410	1.638	88.500
9	0.450	1.476	139.840	139.845	2.553	0.740	1.826	96.100
10	0.500	1.640	110.580	110.595	2.563	2.480	2.317	77.300
11	0.550	1.804	84.710	84.708	2.449	-0.330	2.891	77.400
12	0.600	1.968	66.410	66.403	2.290	-1.190	3.449	70.400
13	0.650	2.133	66.840	66.837	2.100	-0.560	3.142	86.100
14	0.700	2.297	77.420	77.419	1.757	-0.140	2.269	92.900
15	0.750	2.461	79.680	79.673	1.359	-1.120	1.706	87.100
16	0.800	2.625	80.920	80.914	1.294	-0.920	1.599	77.700
17	0.850	2.789	76.830	76.825	1.109	-0.810	1.444	81.800
18	0.900	2.953	75.200	75.193	0.899	-1.170	1.196	92.100
19	0.950	3.117	57.070	57.058	0.563	-1.910	0.987	80.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	40.260	40.248	0.449	-2.000	1.116	67.500
21	1.050	3.445	33.450	33.439	0.369	-1.700	1.103	58.800
22	1.100	3.609	32.920	32.921	0.336	0.210	1.021	70.500
23	1.150	3.773	32.060	32.063	0.215	0.440	0.671	65.500
24	1.200	3.937	54.740	54.751	0.192	1.730	0.351	71.200
25	1.250	4.101	66.700	66.720	0.500	3.190	0.749	60.500
26	1.300	4.265	83.550	83.579	1.238	4.680	1.481	46.100
27	1.350	4.429	87.880	87.917	1.432	5.920	1.629	51.200
28	1.400	4.593	56.780	56.820	1.598	6.370	2.812	65.500
29	1.450	4.757	36.360	36.381	0.906	3.380	2.490	65.800
30	1.500	4.921	43.790	43.835	0.773	7.280	1.763	61.800
31	1.550	5.085	32.960	32.969	0.492	1.510	1.492	51.600
32	1.600	5.249	22.860	22.849	0.382	-1.800	1.672	51.100
33	1.650	5.413	19.380	19.361	0.401	-3.040	2.071	41.700
34	1.700	5.577	33.450	33.448	0.609	-0.330	1.821	30.400
35	1.750	5.741	30.800	30.802	0.836	0.300	2.714	26.600
36	1.800	5.905	36.020	36.050	0.926	4.820	2.569	24.900
37	1.850	6.069	45.780	45.803	0.769	3.680	1.679	20.700
38	1.900	6.234	21.320	21.341	0.597	3.420	2.797	20.900
39	1.950	6.398	17.200	17.208	0.382	1.220	2.220	14.100
40	2.000	6.562	25.000	25.018	0.622	2.830	2.486	15.900
41	2.050	6.726	16.780	16.795	0.541	2.350	3.221	17.100
42	2.100	6.890	10.440	10.460	0.414	3.130	3.958	0.000
43	2.150	7.054	8.800	8.815	0.310	2.480	3.517	0.000
44	2.200	7.218	11.110	11.157	0.254	7.470	2.277	0.000
45	2.250	7.382	16.800	16.842	0.216	6.740	1.283	0.000
46	2.300	7.546	20.370	20.417	0.168	7.510	0.823	0.000
47	2.350	7.710	20.540	20.603	0.137	10.070	0.665	0.000
48	2.400	7.874	26.860	26.917	0.108	9.200	0.401	0.000
49	2.450	8.038	17.380	17.447	0.189	10.700	1.083	0.000
50	2.500	8.202	23.430	23.458	0.334	4.540	1.424	0.000
51	2.550	8.366	48.790	48.896	0.551	17.020	1.127	0.000
52	2.600	8.530	87.780	87.847	1.351	10.770	1.538	0.000
53	2.650	8.694	136.420	136.445	1.335	4.000	0.978	0.000
54	2.700	8.858	239.040	239.179	1.123	22.340	0.470	0.000
55	2.750	9.022	383.880	383.866	1.044	-2.310	0.272	0.000
56	2.800	9.186	395.280	395.262	0.000	-2.960	0.000	0.000
57	2.850	9.350	430.240	430.223	0.000	-2.690	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221524
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-2B
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	11:10
CPT File:	13-53075_GP2-2B.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722038.736
Northing / Lat:	4294252.423
Elevation:	144.752
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.190	0.203	0.002	2.130	0.984	17.500
2	0.100	0.328	0.700	0.722	0.002	3.560	0.277	29.600
3	0.150	0.492	0.110	0.117	0.013	1.120	11.112	42.700
4	0.200	0.656	0.040	0.053	0.013	2.160	24.306	40.500
5	0.250	0.820	0.080	0.092	0.011	1.920	11.958	60.700
6	0.300	0.984	0.050	0.062	0.012	1.990	19.224	72.600
7	0.350	1.148	0.310	0.324	0.013	2.300	4.008	86.500
8	0.400	1.312	0.300	0.316	0.011	2.520	3.484	85.200
9	0.450	1.476	0.250	0.263	0.012	2.130	4.558	83.000
10	0.500	1.640	0.350	0.364	0.013	2.210	3.573	91.400
11	0.550	1.804	0.270	0.288	0.012	2.840	4.171	80.300
12	0.600	1.968	0.630	0.648	0.015	2.940	2.314	80.600
13	0.650	2.133	1.230	1.248	0.042	2.890	3.365	84.500
14	0.700	2.297	2.110	2.126	0.067	2.570	3.151	96.100
15	0.750	2.461	1.940	1.957	0.040	2.800	2.043	88.800
16	0.800	2.625	1.150	1.165	0.021	2.450	1.802	92.600
17	0.850	2.789	1.530	1.545	0.019	2.430	1.230	86.000
18	0.900	2.953	1.160	1.175	0.019	2.360	1.617	93.600
19	0.950	3.117	0.770	0.785	0.035	2.350	4.460	83.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	0.770	0.783	0.046	2.110	5.874	86.200
21	1.050	3.445	0.100	0.112	0.028	1.870	25.073	67.200
22	1.100	3.609	0.290	0.303	0.005	2.010	1.653	56.200
23	1.150	3.773	0.450	0.459	0.001	1.510	0.218	61.500
24	1.200	3.937	0.110	0.120	0.015	1.680	12.449	67.300
25	1.250	4.101	0.460	0.481	0.028	3.410	5.818	62.000
26	1.300	4.265	1.480	1.501	0.048	3.350	3.198	59.400
27	1.350	4.429	3.890	3.908	0.140	2.890	3.582	55.300
28	1.400	4.593	4.360	4.370	0.260	1.570	5.950	54.900
29	1.450	4.757	4.200	4.208	0.161	1.220	3.826	57.900
30	1.500	4.921	2.160	2.176	0.118	2.510	5.424	66.700
31	1.550	5.085	1.760	1.775	0.079	2.330	4.452	56.900
32	1.600	5.249	0.840	0.854	0.085	2.310	9.948	49.200
33	1.650	5.413	1.180	1.193	0.038	2.130	3.184	46.200
34	1.700	5.577	0.440	0.456	0.039	2.550	8.554	45.200
35	1.750	5.741	1.640	1.651	0.170	1.700	10.299	27.700
36	1.800	5.905	4.050	4.076	0.281	4.230	6.893	24.300
37	1.850	6.069	2.160	2.175	0.402	2.450	18.480	18.300
38	1.900	6.234	4.950	4.977	0.292	4.400	5.866	19.400
39	1.950	6.398	0.120	0.133	0.256	2.140	191.962	17.700
40	2.000	6.562	0.330	0.343	0.145	2.130	42.237	21.500
41	2.050	6.726	2.150	2.165	0.163	2.330	7.530	14.400
42	2.100	6.890	2.580	2.599	0.175	3.100	6.732	12.600
43	2.150	7.054	1.330	1.348	0.104	2.850	7.716	11.300
44	2.200	7.218	0.820	0.842	0.069	3.510	8.196	14.600
45	2.250	7.382	0.950	0.972	0.061	3.480	6.277	18.400
46	2.300	7.546	1.020	1.045	0.063	4.080	6.026	22.700
47	2.350	7.710	2.580	2.616	0.061	5.690	2.332	24.100
48	2.400	7.874	1.330	1.381	0.109	8.110	7.895	27.800
49	2.450	8.038	2.480	2.542	0.072	9.910	2.833	37.100
50	2.500	8.202	1.110	1.181	0.097	11.320	8.216	48.100
51	2.550	8.366	2.410	2.465	0.113	8.740	4.585	62.700
52	2.600	8.530	2.930	2.994	0.129	10.250	4.309	58.200
53	2.650	8.694	3.320	3.384	0.135	10.280	3.989	68.900
54	2.700	8.858	2.260	2.348	0.132	14.160	5.621	57.100
55	2.750	9.022	2.790	2.890	0.079	15.990	2.734	47.900
56	2.800	9.186	1.420	1.540	0.047	19.200	3.052	42.500
57	2.850	9.350	0.980	1.106	0.003	20.240	0.271	40.800
58	2.900	9.514	1.220	1.350	0.003	20.820	0.222	41.800
59	2.950	9.678	1.410	1.557	0.004	23.500	0.257	39.400
60	3.000	9.842	1.230	1.370	0.005	22.400	0.365	51.000
61	3.050	10.006	1.250	1.380	0.003	20.780	0.217	59.400
62	3.100	10.170	1.490	1.610	0.005	19.290	0.310	70.600
63	3.150	10.335	1.820	1.927	0.008	17.080	0.415	82.300
64	3.200	10.499	1.500	1.603	0.134	16.530	8.358	72.800
65	3.250	10.663	2.940	3.064	0.121	19.840	3.949	81.400
66	3.300	10.827	2.330	2.425	0.126	15.200	5.196	69.700
67	3.350	10.991	1.610	1.689	0.142	12.690	8.406	58.800
68	3.400	11.155	3.560	3.659	0.214	15.850	5.849	59.800
69	3.450	11.319	4.950	5.063	0.406	18.030	8.020	45.200
70	3.500	11.483	16.810	16.966	0.455	25.020	2.682	31.000
71	3.550	11.647	6.000	6.023	0.468	3.680	7.770	22.300
72	3.600	11.811	4.810	4.838	0.449	4.490	9.281	17.600
73	3.650	11.975	4.470	4.506	0.266	5.690	5.904	22.900
74	3.700	12.139	2.800	2.829	0.326	4.670	11.523	19.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	8.560	8.591	0.768	4.980	8.939	16.400
76	3.800	12.467	21.760	21.791	0.901	5.000	4.135	16.000
77	3.850	12.631	14.050	14.073	0.860	3.610	6.111	15.500
78	3.900	12.795	6.040	6.061	0.608	3.420	10.031	27.000
79	3.950	12.959	4.620	4.648	0.622	4.530	13.381	28.200
80	4.000	13.123	6.370	6.380	0.423	1.660	6.630	40.300
81	4.050	13.287	3.620	3.636	0.318	2.520	8.747	49.600
82	4.100	13.451	3.100	3.118	0.272	2.930	8.723	58.500
83	4.150	13.615	2.430	2.446	0.207	2.600	8.462	60.800
84	4.200	13.779	2.500	2.520	0.326	3.150	12.938	74.200
85	4.250	13.943	3.910	3.911	0.294	0.160	7.517	76.600
86	4.300	14.107	1.450	1.463	0.156	2.130	10.661	76.900
87	4.350	14.271	2.190	2.213	0.026	3.630	1.175	97.800
88	4.400	14.436	1.480	1.508	0.027	4.430	1.791	93.800
89	4.450	14.600	1.910	1.928	0.012	2.930	0.622	101.300
90	4.500	14.764	1.790	1.808	0.024	2.950	1.327	92.400
91	4.550	14.928	2.300	2.326	0.026	4.160	1.118	90.300
92	4.600	15.092	2.120	2.151	0.014	4.920	0.651	84.600
93	4.650	15.256	1.890	1.926	0.010	5.800	0.519	86.600
94	4.700	15.420	1.740	1.777	0.013	5.980	0.731	81.000
95	4.750	15.584	1.750	1.799	0.008	7.810	0.445	70.200
96	4.800	15.748	1.630	1.680	0.033	8.080	1.964	64.500
97	4.850	15.912	1.630	1.693	0.096	10.120	5.670	45.700
98	4.900	16.076	2.710	2.779	0.198	11.020	7.125	35.700
99	4.950	16.240	5.470	5.526	0.422	9.040	7.636	26.700
100	5.000	16.404	8.310	8.351	0.597	6.510	7.149	19.900
101	5.050	16.568	13.030	13.103	0.769	11.700	5.869	16.800
102	5.100	16.732	10.060	10.165	0.801	16.750	7.880	17.300
103	5.150	16.896	4.940	5.031	0.787	14.610	15.642	16.200
104	5.200	17.060	15.930	16.007	1.090	12.410	6.809	14.100
105	5.250	17.224	82.230	82.290	1.981	9.680	2.407	12.400
106	5.300	17.388	78.370	78.414	1.881	7.030	2.399	16.700
107	5.350	17.552	63.700	63.733	1.934	5.220	3.035	19.500
108	5.400	17.716	51.800	51.844	1.272	7.060	2.454	21.600
109	5.450	17.880	59.200	59.240	0.899	6.460	1.518	32.900
110	5.500	18.044	82.630	82.673	0.484	6.840	0.585	48.000
111	5.550	18.208	107.310	107.343	0.679	5.310	0.633	51.800
112	5.600	18.372	75.110	75.143	1.074	5.330	1.429	64.200
113	5.650	18.537	46.800	46.859	1.293	9.510	2.759	79.000
114	5.700	18.701	33.480	33.489	1.183	1.460	3.532	85.100
115	5.750	18.865	24.550	24.556	0.881	0.990	3.588	74.000
116	5.800	19.029	17.680	17.678	0.656	-0.400	3.711	63.900
117	5.850	19.193	13.320	13.314	0.336	-1.010	2.524	46.000
118	5.900	19.357	63.850	63.846	0.571	-0.650	0.894	38.300
119	5.950	19.521	57.730	57.769	0.856	6.240	1.482	29.600
120	6.000	19.685	25.230	25.267	0.854	5.860	3.380	24.300
121	6.050	19.849	23.620	23.658	1.122	6.120	4.743	22.200
122	6.100	20.013	36.760	36.804	0.893	7.010	2.426	16.000
123	6.150	20.177	56.930	56.961	1.185	4.950	2.080	20.100
124	6.200	20.341	64.570	64.609	1.049	6.270	1.624	17.300
125	6.250	20.505	45.640	45.673	1.054	5.210	2.308	18.600
126	6.300	20.669	25.890	25.926	1.071	5.750	4.131	23.300
127	6.350	20.833	17.640	17.672	0.864	5.170	4.889	30.500
128	6.400	20.997	13.950	14.114	0.514	26.260	3.642	34.200
129	6.450	21.161	15.110	15.174	0.350	10.230	2.307	30.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	20.040	20.091	0.377	8.110	1.876	41.300
131	6.550	21.489	11.500	11.544	0.352	7.100	3.049	40.600
132	6.600	21.653	9.890	9.943	0.353	8.550	3.550	52.400
133	6.650	21.817	6.200	6.267	0.195	10.690	3.112	47.800
134	6.700	21.981	3.620	3.680	0.262	9.560	7.120	48.700
135	6.750	22.145	17.420	17.487	0.473	10.770	2.705	59.400
136	6.800	22.309	41.380	41.464	0.839	13.480	2.023	77.100
137	6.850	22.473	46.290	46.316	1.044	4.090	2.254	66.500
138	6.900	22.638	53.660	53.695	1.061	5.670	1.976	61.300
139	6.950	22.802	41.970	41.999	0.980	4.650	2.333	54.500
140	7.000	22.966	21.200	21.215	0.807	2.330	3.804	31.900
141	7.050	23.130	12.720	12.733	0.460	2.130	3.613	25.300
142	7.100	23.294	8.170	8.209	0.348	6.200	4.239	22.900
143	7.150	23.458	8.640	8.702	0.454	10.000	5.217	28.100
144	7.200	23.622	61.900	61.954	0.805	8.580	1.299	24.100
145	7.250	23.786	38.330	38.524	1.312	31.050	3.406	30.700
146	7.300	23.950	49.670	49.813	1.376	22.880	2.762	35.500
147	7.350	24.114	100.990	101.058	1.294	10.820	1.280	57.300
148	7.400	24.278	42.100	42.163	1.215	10.060	2.882	69.200
149	7.450	24.442	44.090	44.157	1.074	10.700	2.432	88.300
150	7.500	24.606	52.000	52.068	1.056	10.930	2.028	87.900
151	7.550	24.770	48.290	48.379	1.188	14.220	2.456	92.900
152	7.600	24.934	62.220	62.309	1.240	14.320	1.990	100.100
153	7.650	25.098	49.700	49.774	1.340	11.920	2.692	90.700
154	7.700	25.262	46.520	46.589	1.203	11.090	2.582	70.200
155	7.750	25.426	31.130	31.189	0.939	9.420	3.011	66.700
156	7.800	25.590	18.510	18.557	0.680	7.510	3.664	43.600
157	7.850	25.754	23.190	23.225	0.485	5.630	2.088	33.800
158	7.900	25.918	14.720	14.758	0.573	6.090	3.883	26.700
159	7.950	26.082	25.280	25.313	0.870	5.360	3.437	31.200
160	8.000	26.246	55.290	55.330	1.116	6.480	2.017	28.500
161	8.050	26.410	27.950	27.993	1.297	6.910	4.633	22.500
162	8.100	26.574	20.200	20.230	1.411	4.780	6.975	21.500
163	8.150	26.739	21.130	21.175	0.764	7.200	3.608	16.800
164	8.200	26.903	34.000	34.061	0.962	9.850	2.824	13.500
165	8.250	27.067	50.650	50.698	1.095	7.650	2.160	14.200
166	8.300	27.231	25.650	25.724	0.694	11.860	2.698	14.600
167	8.350	27.395	20.150	20.211	0.462	9.730	2.286	17.700
168	8.400	27.559	101.800	101.866	0.432	10.540	0.424	16.000
169	8.450	27.723	128.960	129.017	0.372	9.070	0.288	14.600
170	8.500	27.887	103.600	103.648	0.613	7.680	0.591	13.900
171	8.550	28.051	97.210	97.257	0.731	7.530	0.752	15.700
172	8.600	28.215	108.590	108.636	0.928	7.360	0.854	15.300
173	8.650	28.379	116.550	116.595	1.114	7.170	0.955	12.300
174	8.700	28.543	105.860	105.904	0.703	7.040	0.664	25.300
175	8.750	28.707	50.110	50.149	0.221	6.230	0.441	29.200
176	8.800	28.871	50.180	50.217	0.303	5.900	0.603	50.300
177	8.850	29.035	64.930	65.003	0.593	11.730	0.912	55.400
178	8.900	29.199	76.230	76.401	0.976	27.360	1.277	60.800
179	8.950	29.363	90.500	90.559	1.468	9.400	1.621	62.700
180	9.000	29.527	74.810	74.852	1.675	6.730	2.238	54.900
181	9.050	29.691	50.510	50.579	1.868	11.070	3.693	41.300
182	9.100	29.855	49.730	49.781	1.543	8.120	3.100	39.300
183	9.150	30.019	71.760	71.813	1.546	8.460	2.153	31.200
184	9.200	30.183	94.800	94.844	1.704	7.110	1.797	24.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	70.190	70.228	2.822	6.060	4.018	26.700
186	9.300	30.511	84.440	84.472	2.406	5.110	2.848	18.300
187	9.350	30.675	96.710	96.746	2.415	5.800	2.496	18.000
188	9.400	30.840	53.150	53.183	1.975	5.220	3.714	22.100
189	9.450	31.004	42.450	42.558	1.526	17.230	3.586	23.200
190	9.500	31.168	50.240	50.347	1.706	17.070	3.389	36.900
191	9.550	31.332	70.580	70.691	1.704	17.760	2.410	35.000
192	9.600	31.496	47.910	47.992	1.416	13.180	2.950	53.300
193	9.650	31.660	77.880	77.951	1.382	11.440	1.773	82.200
194	9.700	31.824	67.260	67.312	1.361	8.350	2.022	92.800
195	9.750	31.988	41.020	41.073	1.202	8.450	2.927	100.700
196	9.800	32.152	31.280	31.313	1.162	5.220	3.711	103.800
197	9.850	32.316	30.720	30.754	0.892	5.430	2.900	98.600
198	9.900	32.480	21.750	21.783	0.912	5.210	4.187	105.900
199	9.950	32.644	25.100	25.137	0.937	5.850	3.728	117.500
200	10.000	32.808	62.670	62.723	1.162	8.480	1.853	141.400
201	10.050	32.972	96.130	96.182	1.353	8.350	1.407	195.200
202	10.100	33.136	107.250	107.300	1.825	8.080	1.701	227.400
203	10.150	33.300	98.860	98.906	1.826	7.320	1.846	365.800
204	10.200	33.464	101.570	101.615	1.706	7.260	1.679	575.000
205	10.250	33.628	114.070	114.112	1.832	6.700	1.605	999.100
206	10.300	33.792	34.620	34.652	1.560	5.060	4.502	1400.800
207	10.350	33.956	27.120	27.154	1.176	5.490	4.331	1600.000
208	10.400	34.120	23.590	23.625	1.313	5.540	5.558	1223.900
209	10.450	34.284	51.420	51.456	1.161	5.790	2.256	872.700
210	10.500	34.448	79.710	79.760	1.269	7.960	1.591	578.400
211	10.550	34.612	77.960	78.003	2.203	6.890	2.824	351.600
212	10.600	34.776	74.060	74.103	2.092	6.850	2.823	218.800
213	10.650	34.941	42.300	42.337	1.978	5.990	4.672	162.400
214	10.700	35.105	41.300	41.308	1.747	1.270	4.229	112.500
215	10.750	35.269	25.560	25.646	1.773	13.740	6.913	84.000
216	10.800	35.433	33.790	33.861	1.754	11.350	5.180	65.300
217	10.850	35.597	50.260	50.319	1.095	9.470	2.176	54.100
218	10.900	35.761	26.550	26.590	1.071	6.370	4.028	57.400
219	10.950	35.925	35.560	35.599	0.966	6.210	2.714	52.200
220	11.000	36.089	32.950	32.977	0.880	4.290	2.669	40.000
221	11.050	36.253	43.420	43.435	0.788	2.390	1.814	26.800
222	11.100	36.417	46.270	46.289	0.721	2.970	1.558	32.600
223	11.150	36.581	43.720	43.766	1.044	7.320	2.385	18.800
224	11.200	36.745	27.660	27.677	1.048	2.790	3.786	23.500
225	11.250	36.909	26.370	26.398	0.938	4.530	3.553	24.000
226	11.300	37.073	57.430	57.451	0.798	3.350	1.389	24.200
227	11.350	37.237	58.920	58.958	1.119	6.100	1.898	19.300
228	11.400	37.401	43.150	43.190	1.432	6.470	3.316	27.800
229	11.450	37.565	54.010	54.041	1.081	4.990	2.000	42.600
230	11.500	37.729	54.040	54.067	1.193	4.290	2.207	43.500
231	11.550	37.893	45.990	46.012	1.558	3.490	3.386	43.700
232	11.600	38.057	103.740	103.750	2.046	1.550	1.972	41.000
233	11.650	38.221	85.390	85.388	1.873	-0.380	2.194	41.500
234	11.700	38.385	72.150	72.165	1.816	2.430	2.516	36.400
235	11.750	38.549	69.490	69.487	1.185	-0.480	1.705	30.700
236	11.800	38.713	44.830	44.842	1.379	1.920	3.075	24.900
237	11.850	38.877	51.430	51.467	1.309	5.910	2.543	18.200
238	11.900	39.042	35.750	35.773	1.567	3.720	4.380	18.300
239	11.950	39.206	48.010	48.030	0.770	3.220	1.603	19.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	45.010	45.021	0.711	1.800	1.579	23.100
241	12.050	39.534	34.820	34.830	0.613	1.530	1.760	19.200
242	12.100	39.698	34.140	34.156	1.291	2.640	3.780	19.200
243	12.150	39.862	29.860	29.878	0.657	2.900	2.199	20.300
244	12.200	40.026	50.400	50.423	0.952	3.640	1.888	23.500
245	12.250	40.190	67.090	67.122	1.097	5.150	1.634	26.200
246	12.300	40.354	37.980	38.010	1.066	4.740	2.805	35.900
247	12.350	40.518	33.910	33.930	0.794	3.200	2.340	43.900
248	12.400	40.682	17.270	17.285	0.370	2.360	2.141	0.000
249	12.450	40.846	11.430	11.441	0.145	1.690	1.267	0.000
250	12.500	41.010	8.530	8.538	0.090	1.360	1.054	0.000
251	12.550	41.174	3.250	3.261	0.098	1.700	3.006	0.000
252	12.600	41.338	2.370	2.384	0.147	2.250	6.166	0.000
253	12.650	41.502	2.550	2.574	0.190	3.890	7.381	0.000
254	12.700	41.666	19.710	19.749	0.481	6.250	2.436	0.000
255	12.750	41.830	30.530	30.549	0.824	3.020	2.697	0.000
256	12.800	41.994	46.630	46.641	1.066	1.750	2.286	0.000
257	12.850	42.158	35.950	35.980	1.171	4.800	3.255	0.000
258	12.900	42.322	34.440	34.521	0.962	13.020	2.787	0.000
259	12.950	42.486	35.430	35.501	0.936	11.330	2.637	0.000
260	13.000	42.650	41.330	41.352	1.009	3.490	2.440	0.000
261	13.050	42.814	39.700	39.737	1.104	6.000	2.778	0.000
262	13.100	42.978	41.370	41.410	0.000	6.430	0.000	0.000
263	13.150	43.143	32.830	32.861	0.000	4.990	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221525
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-2C
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-20-2014
CPT Time:	10:53
CPT File:	13-53075_GP2-2C.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722039.578
Northing / Lat:	4294253.716
Elevation:	144.742
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.900	2.961	0.002	9.730	0.068	36.700
2	0.100	0.328	16.080	16.134	0.088	8.630	0.545	50.900
3	0.150	0.492	29.920	29.947	0.146	4.390	0.488	55.200
4	0.200	0.656	35.290	35.314	0.245	3.900	0.694	78.300
5	0.250	0.820	64.220	64.257	0.621	5.860	0.966	68.700
6	0.300	0.984	128.600	128.643	1.133	6.870	0.881	87.100
7	0.350	1.148	115.320	115.371	1.772	8.240	1.536	86.100
8	0.400	1.312	118.290	118.275	1.811	-2.380	1.531	76.700
9	0.450	1.476	139.070	139.057	2.018	-2.050	1.451	66.000
10	0.500	1.640	156.810	156.846	2.405	5.730	1.533	76.000
11	0.550	1.804	150.910	150.897	2.787	-2.010	1.847	61.500
12	0.600	1.968	125.550	125.525	2.986	-3.940	2.379	86.100
13	0.650	2.133	98.450	98.420	2.940	-4.760	2.987	81.400
14	0.700	2.297	79.290	79.261	2.818	-4.640	3.555	88.500
15	0.750	2.461	76.900	76.890	2.309	-1.640	3.003	78.500
16	0.800	2.625	84.890	84.896	2.195	1.040	2.586	78.400
17	0.850	2.789	88.140	88.106	2.017	-5.410	2.289	100.700
18	0.900	2.953	83.270	83.225	1.969	-7.170	2.366	90.700
19	0.950	3.117	76.910	76.866	2.013	-7.010	2.619	78.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	79.780	79.734	2.114	-7.290	2.651	78.700
21	1.050	3.445	85.570	85.527	2.047	-6.920	2.393	85.700
22	1.100	3.609	93.940	93.898	2.120	-6.760	2.258	71.700
23	1.150	3.773	122.750	122.700	1.929	-8.010	1.572	72.100
24	1.200	3.937	51.500	51.469	1.479	-4.890	2.874	73.600
25	1.250	4.101	27.320	27.301	1.077	-3.090	3.945	77.200
26	1.300	4.265	23.140	23.132	0.609	-1.260	2.633	73.500
27	1.350	4.429	31.660	31.660	0.642	0.060	2.028	74.800
28	1.400	4.593	23.310	23.319	0.631	1.410	2.706	80.600
29	1.450	4.757	15.600	15.596	0.634	-0.570	4.065	72.600
30	1.500	4.921	33.320	33.340	0.534	3.240	1.602	57.600
31	1.550	5.085	30.650	30.635	0.542	-2.470	1.769	66.200
32	1.600	5.249	27.840	27.827	0.600	-2.060	2.156	62.400
33	1.650	5.413	21.830	21.821	0.698	-1.460	3.199	52.400
34	1.700	5.577	20.710	20.698	0.730	-1.970	3.527	35.900
35	1.750	5.741	23.810	23.789	0.553	-3.390	2.325	34.900
36	1.800	5.905	25.920	25.911	0.482	-1.470	1.860	28.500
37	1.850	6.069	29.000	29.073	0.692	11.670	2.380	26.600
38	1.900	6.234	30.140	30.186	0.619	7.380	2.051	22.500
39	1.950	6.398	25.720	25.763	0.748	6.810	2.903	17.300
40	2.000	6.562	55.490	55.513	0.823	3.700	1.483	12.100
41	2.050	6.726	55.880	55.928	0.686	7.650	1.227	16.400
42	2.100	6.890	100.290	100.313	0.442	3.610	0.441	13.400
43	2.150	7.054	138.490	138.508	0.465	2.840	0.336	17.000
44	2.200	7.218	138.870	139.256	0.658	61.820	0.473	12.100
45	2.250	7.382	35.650	35.685	0.963	5.610	2.699	12.100
46	2.300	7.546	22.850	22.915	0.754	10.370	3.290	8.200
47	2.350	7.710	17.300	17.297	0.813	-0.530	4.700	15.500
48	2.400	7.874	10.790	10.740	0.622	-8.050	5.792	18.600
49	2.450	8.038	9.750	9.834	0.465	13.490	4.728	32.500
50	2.500	8.202	6.880	6.940	0.541	9.680	7.795	26.400
51	2.550	8.366	25.050	25.431	0.814	61.100	3.201	42.400
52	2.600	8.530	29.130	29.453	1.003	51.770	3.405	48.500
53	2.650	8.694	23.660	23.748	0.619	14.060	2.607	42.700
54	2.700	8.858	173.070	173.153	0.505	13.320	0.292	42.500
55	2.750	9.022	191.790	191.790	0.614	0.010	0.320	36.900
56	2.800	9.186	132.350	132.348	0.806	-0.390	0.609	47.100
57	2.850	9.350	86.260	86.250	1.145	-1.570	1.328	45.200
58	2.900	9.514	55.370	55.368	1.113	-0.280	2.010	54.400
59	2.950	9.678	24.410	24.416	1.014	1.000	4.153	75.000
60	3.000	9.842	16.920	16.956	0.631	5.740	3.721	67.800
61	3.050	10.006	42.080	42.289	1.063	33.550	2.514	72.100
62	3.100	10.170	60.360	60.387	1.460	4.300	2.418	85.500
63	3.150	10.335	57.550	57.571	1.439	3.340	2.500	75.000
64	3.200	10.499	48.280	48.266	1.172	-2.280	2.428	81.700
65	3.250	10.663	34.780	34.718	0.960	-9.970	2.765	65.300
66	3.300	10.827	24.270	24.222	0.915	-7.640	3.778	52.500
67	3.350	10.991	22.200	22.183	0.525	-2.680	2.367	42.200
68	3.400	11.155	28.550	28.549	0.657	-0.230	2.301	31.500
69	3.450	11.319	60.580	60.599	0.951	2.970	1.569	23.800
70	3.500	11.483	94.780	94.797	1.414	2.710	1.492	18.000
71	3.550	11.647	81.020	81.104	1.756	13.470	2.165	17.600
72	3.600	11.811	85.380	85.415	2.377	5.590	2.783	13.900
73	3.650	11.975	98.060	98.094	2.682	5.410	2.734	18.900
74	3.700	12.139	67.800	67.930	2.418	20.750	3.560	16.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	41.400	41.386	1.971	-2.260	4.762	16.500
76	3.800	12.467	45.880	45.899	1.214	3.060	2.645	14.500
77	3.850	12.631	39.330	39.321	1.165	-1.440	2.963	14.700
78	3.900	12.795	32.910	32.967	0.817	9.200	2.478	17.800
79	3.950	12.959	34.570	34.570	0.807	0.020	2.334	25.800
80	4.000	13.123	31.040	31.065	0.616	4.060	1.983	22.800
81	4.050	13.287	21.800	21.841	0.554	6.500	2.537	29.500
82	4.100	13.451	23.570	23.564	0.450	-0.960	1.910	31.900
83	4.150	13.615	14.430	14.441	0.307	1.740	2.126	36.900
84	4.200	13.779	20.140	20.127	0.501	-2.130	2.489	45.700
85	4.250	13.943	58.850	58.847	0.983	-0.480	1.670	50.400
86	4.300	14.107	63.000	63.033	1.094	5.250	1.736	62.800
87	4.350	14.271	18.140	18.119	0.965	-3.310	5.326	77.800
88	4.400	14.436	12.300	12.347	0.586	7.530	4.746	80.000
89	4.450	14.600	9.900	9.954	0.206	8.730	2.069	79.600
90	4.500	14.764	8.250	8.347	0.191	15.470	2.288	74.100
91	4.550	14.928	7.710	7.771	0.362	9.750	4.658	65.400
92	4.600	15.092	6.890	6.919	0.301	4.620	4.350	54.200
93	4.650	15.256	24.410	24.451	0.233	6.540	0.953	42.900
94	4.700	15.420	24.520	24.538	0.444	2.960	1.809	32.300
95	4.750	15.584	26.160	26.187	0.258	4.340	0.985	27.900
96	4.800	15.748	22.010	22.047	0.216	5.880	0.980	19.100
97	4.850	15.912	1.350	1.333	0.151	-2.700	11.327	16.800
98	4.900	16.076	15.010	15.027	0.169	2.710	1.125	16.900
99	4.950	16.240	33.390	33.370	0.343	-3.210	1.028	10.500
100	5.000	16.404	25.010	25.055	0.377	7.160	1.505	13.400
101	5.050	16.568	22.700	22.762	0.586	9.900	2.574	14.000
102	5.100	16.732	23.540	23.601	0.595	9.780	2.521	12.000
103	5.150	16.896	42.940	42.967	0.601	4.320	1.399	17.000
104	5.200	17.060	59.900	59.918	0.622	2.960	1.038	23.300
105	5.250	17.224	54.280	54.338	0.761	9.220	1.401	21.400
106	5.300	17.388	42.620	42.626	0.539	0.890	1.264	17.100
107	5.350	17.552	110.230	110.255	0.238	4.000	0.216	28.100
108	5.400	17.716	158.890	158.905	0.361	2.360	0.227	35.200
109	5.450	17.880	131.220	131.195	0.622	-3.940	0.474	62.000
110	5.500	18.044	74.510	74.525	0.894	2.380	1.200	74.300
111	5.550	18.208	41.610	41.595	1.019	-2.450	2.450	64.000
112	5.600	18.372	24.220	24.310	0.874	14.480	3.595	78.000
113	5.650	18.537	19.460	19.571	0.783	17.820	4.001	70.900
114	5.700	18.701	20.660	20.778	0.568	18.900	2.734	49.000
115	5.750	18.865	39.860	39.939	0.634	12.630	1.587	37.400
116	5.800	19.029	42.090	42.095	0.895	0.750	2.126	30.400
117	5.850	19.193	36.490	36.606	1.387	18.610	3.789	21.100
118	5.900	19.357	29.020	29.304	1.037	45.540	3.539	20.600
119	5.950	19.521	21.280	21.238	0.879	-6.660	4.139	10.700
120	6.000	19.685	33.770	33.789	1.338	2.970	3.960	19.000
121	6.050	19.849	50.500	50.569	1.398	11.010	2.765	13.900
122	6.100	20.013	73.150	73.360	2.509	33.590	3.420	15.000
123	6.150	20.177	194.100	194.207	3.826	17.210	1.970	17.900
124	6.200	20.341	68.110	68.220	3.659	17.640	5.364	17.300
125	6.250	20.505	34.090	34.523	1.595	69.420	4.620	16.600
126	6.300	20.669	101.190	101.674	0.361	77.530	0.355	15.800
127	6.350	20.833	70.260	70.311	0.472	8.140	0.671	22.100
128	6.400	20.997	44.020	44.078	0.612	9.280	1.388	50.200
129	6.450	21.161	41.000	41.110	0.738	17.550	1.795	46.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	36.390	36.470	0.838	12.780	2.298	50.200
131	6.550	21.489	66.890	66.970	1.241	12.760	1.853	50.300
132	6.600	21.653	100.650	100.783	1.371	21.270	1.360	58.400
133	6.650	21.817	46.460	46.502	1.581	6.750	3.400	64.300
134	6.700	21.981	45.550	45.596	1.216	7.370	2.667	68.700
135	6.750	22.145	30.430	30.437	0.469	1.170	1.541	71.300
136	6.800	22.309	17.410	17.410	0.566	0.050	3.251	59.400
137	6.850	22.473	11.660	11.661	0.298	0.140	2.556	42.700
138	6.900	22.638	30.130	30.136	0.520	0.920	1.726	29.300
139	6.950	22.802	42.120	42.255	0.787	21.600	1.863	26.900
140	7.000	22.966	29.590	29.674	0.886	13.480	2.986	31.400
141	7.050	23.130	30.500	30.627	0.571	20.360	1.864	34.500
142	7.100	23.294	29.980	30.087	0.858	17.170	2.852	31.700
143	7.150	23.458	48.220	48.319	0.820	15.880	1.697	41.300
144	7.200	23.622	18.120	18.178	0.865	9.350	4.758	60.000
145	7.250	23.786	27.520	27.822	0.625	48.360	2.246	76.600
146	7.300	23.950	55.960	56.026	0.710	10.540	1.267	86.900
147	7.350	24.114	68.300	68.346	0.824	7.430	1.206	97.300
148	7.400	24.278	69.800	69.991	1.120	30.630	1.600	80.600
149	7.450	24.442	64.380	64.475	1.331	15.260	2.064	85.800
150	7.500	24.606	69.030	69.345	1.493	50.380	2.153	87.800
151	7.550	24.770	82.920	82.980	1.490	9.570	1.796	78.100
152	7.600	24.934	86.430	86.440	1.585	1.680	1.834	64.100
153	7.650	25.098	61.120	61.101	1.570	-3.030	2.570	52.500
154	7.700	25.262	48.180	48.195	1.573	2.450	3.264	39.800
155	7.750	25.426	44.300	44.399	1.400	15.820	3.153	26.100
156	7.800	25.590	31.290	31.637	1.555	55.580	4.915	24.900
157	7.850	25.754	43.860	44.290	1.359	68.810	3.068	26.200
158	7.900	25.918	34.550	34.952	1.407	64.460	4.025	22.300
159	7.950	26.082	36.270	36.273	1.562	0.420	4.306	16.900
160	8.000	26.246	23.720	23.822	1.412	16.410	5.927	23.000
161	8.050	26.410	83.180	83.379	1.574	31.800	1.888	36.400
162	8.100	26.574	93.420	93.576	1.711	24.990	1.828	23.000
163	8.150	26.739	56.950	56.972	2.149	3.480	3.772	17.000
164	8.200	26.903	52.120	52.163	1.826	6.890	3.501	12.300
165	8.250	27.067	43.760	44.573	1.550	130.230	3.477	13.600
166	8.300	27.231	54.980	55.039	1.676	9.380	3.045	12.900
167	8.350	27.395	69.350	69.525	1.633	28.050	2.349	15.700
168	8.400	27.559	87.710	87.873	1.535	26.160	1.747	12.800
169	8.450	27.723	88.800	88.902	1.347	16.380	1.515	13.400
170	8.500	27.887	75.070	75.138	1.118	10.900	1.488	12.900
171	8.550	28.051	74.640	74.723	0.977	13.350	1.307	12.500
172	8.600	28.215	56.020	56.066	0.947	7.400	1.689	20.600
173	8.650	28.379	41.210	41.264	3.725	8.650	9.027	38.600
174	8.700	28.543	41.760	41.822	3.034	9.880	7.255	44.000
175	8.750	28.707	139.660	139.735	3.257	11.960	2.331	27.800
176	8.800	28.871	162.510	162.574	3.723	10.300	2.290	57.600
177	8.850	29.035	170.480	170.552	0.931	11.460	0.546	59.700
178	8.900	29.199	50.600	50.598	0.623	-0.300	1.231	55.100
179	8.950	29.363	40.740	40.846	0.724	16.920	1.773	50.300
180	9.000	29.527	78.050	78.171	0.834	19.310	1.067	41.700
181	9.050	29.691	44.220	44.252	0.747	5.100	1.688	45.900
182	9.100	29.855	31.960	32.009	0.648	7.770	2.024	38.800
183	9.150	30.019	30.100	30.148	0.446	7.730	1.479	29.500
184	9.200	30.183	48.160	48.193	0.505	5.350	1.048	28.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	21.960	22.210	0.356	39.990	1.603	32.300
186	9.300	30.511	31.970	32.000	0.403	4.730	1.259	31.800
187	9.350	30.675	32.820	32.840	0.219	3.220	0.667	41.800
188	9.400	30.840	29.890	29.927	0.436	5.980	1.457	43.400
189	9.450	31.004	22.900	22.955	0.427	8.850	1.860	61.200
190	9.500	31.168	26.600	26.620	0.483	3.190	1.814	85.100
191	9.550	31.332	26.890	26.916	0.549	4.210	2.040	130.300
192	9.600	31.496	18.870	18.895	0.580	3.970	3.070	187.200
193	9.650	31.660	15.920	15.956	0.573	5.750	3.591	211.200
194	9.700	31.824	13.730	13.743	0.441	2.100	3.209	251.400
195	9.750	31.988	23.360	23.401	0.609	6.590	2.602	247.500
196	9.800	32.152	27.030	27.086	0.827	8.950	3.053	269.600
197	9.850	32.316	35.420	35.528	1.081	17.230	3.043	308.400
198	9.900	32.480	38.920	38.990	1.400	11.180	3.591	315.100
199	9.950	32.644	38.680	38.722	1.063	6.750	2.745	255.400
200	10.000	32.808	65.140	65.195	0.809	8.810	1.241	163.300
201	10.050	32.972	69.200	69.213	0.349	2.050	0.504	118.000
202	10.100	33.136	74.550	74.557	0.776	1.120	1.041	82.300
203	10.150	33.300	61.530	61.527	1.020	-0.500	1.658	71.800
204	10.200	33.464	47.470	47.478	1.717	1.360	3.616	52.600
205	10.250	33.628	56.120	56.160	1.586	6.430	2.824	47.100
206	10.300	33.792	35.740	35.778	1.433	6.080	4.005	43.500
207	10.350	33.956	28.220	28.255	1.097	5.650	3.882	38.400
208	10.400	34.120	51.240	51.298	0.838	9.270	1.634	34.500
209	10.450	34.284	50.990	51.009	1.427	3.020	2.798	34.600
210	10.500	34.448	72.310	72.335	2.480	3.960	3.429	39.600
211	10.550	34.612	80.700	80.707	2.609	1.150	3.233	27.900
212	10.600	34.776	63.360	63.360	2.457	-0.060	3.878	24.500
213	10.650	34.941	46.520	46.560	2.555	6.430	5.488	22.700
214	10.700	35.105	25.750	25.765	1.876	2.380	7.281	17.600
215	10.750	35.269	17.440	17.526	1.271	13.710	7.252	25.000
216	10.800	35.433	118.670	118.686	1.786	2.550	1.505	20.700
217	10.850	35.597	86.980	87.034	1.637	8.720	1.881	21.200
218	10.900	35.761	162.050	162.083	3.512	5.260	2.167	19.600
219	10.950	35.925	148.190	148.285	3.936	15.210	2.654	19.100
220	11.000	36.089	66.780	67.360	3.231	92.880	4.797	11.700
221	11.050	36.253	76.640	76.716	2.672	12.140	3.483	13.400
222	11.100	36.417	67.830	68.004	2.102	27.910	3.091	4.000
223	11.150	36.581	88.580	88.609	2.228	4.640	2.514	17.400
224	11.200	36.745	117.000	117.113	2.759	18.030	2.356	16.000
225	11.250	36.909	85.870	85.928	2.281	9.230	2.655	36.600
226	11.300	37.073	65.050	65.089	1.907	6.190	2.930	33.800
227	11.350	37.237	56.250	56.290	1.629	6.480	2.894	48.100
228	11.400	37.401	57.060	57.112	1.706	8.370	2.987	35.500
229	11.450	37.565	40.930	41.011	1.460	12.900	3.560	34.400
230	11.500	37.729	53.290	53.525	1.655	37.650	3.092	34.900
231	11.550	37.893	69.600	69.625	1.593	3.930	2.288	31.100
232	11.600	38.057	51.470	51.567	1.740	15.590	3.374	23.500
233	11.650	38.221	66.990	67.184	1.895	31.140	2.821	22.200
234	11.700	38.385	89.180	89.340	2.752	25.660	3.080	17.800
235	11.750	38.549	97.680	97.938	3.151	41.280	3.217	20.800
236	11.800	38.713	83.120	83.347	2.983	36.380	3.579	18.400
237	11.850	38.877	69.670	69.849	2.974	28.610	4.258	26.500
238	11.900	39.042	74.560	74.552	2.704	-1.290	3.627	25.100
239	11.950	39.206	53.810	53.834	2.054	3.770	3.815	30.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	19.240	19.267	1.298	4.400	6.737	18.000
241	12.050	39.534	28.430	28.407	0.904	-3.610	3.182	34.100
242	12.100	39.698	23.820	23.879	0.867	9.490	3.631	39.800
243	12.150	39.862	20.810	20.874	1.104	10.320	5.289	45.400
244	12.200	40.026	33.270	33.449	0.930	28.660	2.780	55.000
245	12.250	40.190	39.250	39.296	0.857	7.380	2.181	57.800
246	12.300	40.354	50.290	50.335	1.553	7.140	3.085	69.900
247	12.350	40.518	49.610	49.736	1.864	20.180	3.748	59.700
248	12.400	40.682	51.580	51.645	1.873	10.390	3.627	73.200
249	12.450	40.846	46.220	46.304	2.028	13.530	4.380	58.500
250	12.500	41.010	36.720	36.780	1.590	9.590	4.323	48.500
251	12.550	41.174	33.820	33.914	1.322	15.060	3.898	42.100
252	12.600	41.338	34.790	34.927	1.450	22.010	4.151	22.800
253	12.650	41.502	43.600	43.750	1.446	23.970	3.305	19.800
254	12.700	41.666	75.480	75.596	1.917	18.590	2.536	14.200
255	12.750	41.830	60.120	60.153	2.075	5.300	3.450	19.800
256	12.800	41.994	58.770	58.843	1.789	11.640	3.040	21.200
257	12.850	42.158	69.230	69.324	2.025	15.130	2.921	20.800
258	12.900	42.322	116.060	116.155	2.933	15.260	2.525	21.300
259	12.950	42.486	163.190	163.235	3.212	7.220	1.968	0.000
260	13.000	42.650	96.270	96.320	3.901	8.030	4.050	0.000
261	13.050	42.814	123.730	123.804	2.724	11.820	2.200	0.000
262	13.100	42.978	54.780	54.761	1.790	-3.050	3.269	0.000
263	13.150	43.143	31.180	31.123	1.536	-9.210	4.935	0.000
264	13.200	43.307	55.750	55.763	0.820	2.080	1.471	0.000
265	13.250	43.471	55.140	55.168	0.920	4.420	1.668	0.000
266	13.300	43.635	46.770	46.815	1.070	7.240	2.286	0.000
267	13.350	43.799	33.340	33.375	1.415	5.660	4.240	0.000
268	13.400	43.963	51.740	51.822	1.749	13.070	3.375	0.000
269	13.450	44.127	171.920	171.951	2.580	5.010	1.500	0.000
270	13.500	44.291	92.770	92.779	2.515	1.400	2.711	0.000
271	13.550	44.455	20.310	20.418	2.569	17.320	12.582	0.000
272	13.600	44.619	72.670	72.918	3.655	39.690	5.012	0.000
273	13.650	44.783	132.330	132.523	0.000	30.950	0.000	0.000
274	13.700	44.947	257.940	258.030	0.000	14.490	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221527
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-3
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	13:33
CPT File:	13-53075_GP2-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722043.250
Northing / Lat:	4294235.699
Elevation:	145.158
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.660	1.663	0.010	0.520	0.601	0.000
2	0.100	0.328	43.130	43.147	0.111	2.670	0.257	0.000
3	0.150	0.492	23.200	23.208	0.498	1.270	2.146	0.000
4	0.200	0.656	37.420	37.453	0.302	5.360	0.806	0.000
5	0.250	0.820	108.210	108.248	0.000	6.100	0.000	0.000
6	0.300	0.984	494.170	494.169	0.000	-0.220	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221528
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-3A
Cone ID:	226:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	13:50
CPT File:	13-53075_GP2-3A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722043.135
Northing / Lat:	4294235.623
Elevation:	145.158
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.620	0.664	0.003	6.980	0.452	26.100
2	0.100	0.328	0.620	0.652	0.002	5.160	0.307	38.800
3	0.150	0.492	1.090	1.118	0.001	4.440	0.089	32.500
4	0.200	0.656	0.880	0.894	0.002	2.250	0.224	32.400
5	0.250	0.820	1.010	1.026	0.002	2.510	0.195	25.900
6	0.300	0.984	0.980	1.000	0.003	3.230	0.300	22.300
7	0.350	1.148	1.930	1.954	0.002	3.770	0.102	18.600
8	0.400	1.312	2.620	2.638	0.001	2.830	0.038	13.900
9	0.450	1.476	3.270	3.279	0.007	1.400	0.213	18.700
10	0.500	1.640	3.340	3.344	0.006	0.690	0.179	15.500
11	0.550	1.804	1.010	1.004	0.028	-0.940	2.788	19.200
12	0.600	1.968	1.220	1.224	0.012	0.660	0.980	23.200
13	0.650	2.133	0.700	0.711	0.001	1.820	0.141	25.000
14	0.700	2.297	0.550	0.561	0.002	1.840	0.356	35.900
15	0.750	2.461	0.230	0.232	0.003	0.280	1.295	37.700
16	0.800	2.625	0.800	0.798	0.004	-0.390	0.502	37.500
17	0.850	2.789	1.380	1.386	0.006	0.950	0.433	46.600
18	0.900	2.953	2.150	2.152	0.024	0.290	1.115	54.800
19	0.950	3.117	2.640	2.641	0.022	0.170	0.833	56.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	3.120	3.171	0.005	8.090	0.158	71.500
21	1.050	3.445	1.620	1.619	0.065	-0.150	4.015	78.600
22	1.100	3.609	3.060	3.059	0.116	-0.100	3.792	87.800
23	1.150	3.773	3.390	3.391	0.111	0.160	3.273	82.700
24	1.200	3.937	3.570	3.572	0.089	0.390	2.491	82.400
25	1.250	4.101	2.030	2.034	0.065	0.580	3.196	94.400
26	1.300	4.265	1.790	1.795	0.013	0.770	0.724	89.100
27	1.350	4.429	1.230	1.235	0.015	0.860	1.214	91.300
28	1.400	4.593	0.920	0.928	0.055	1.290	5.926	94.300
29	1.450	4.757	2.020	2.030	0.071	1.610	3.497	84.400
30	1.500	4.921	1.020	1.028	0.068	1.250	6.616	78.300
31	1.550	5.085	0.980	0.988	0.080	1.280	8.097	52.400
32	1.600	5.249	2.470	2.481	0.220	1.690	8.869	45.900
33	1.650	5.413	6.950	6.971	0.356	3.320	5.107	39.300
34	1.700	5.577	10.290	10.312	0.541	3.600	5.246	25.300
35	1.750	5.741	13.600	13.629	0.459	4.670	3.368	24.800
36	1.800	5.905	10.220	10.252	0.373	5.060	3.638	25.700
37	1.850	6.069	9.160	9.194	0.630	5.520	6.852	23.200
38	1.900	6.234	11.460	11.510	0.360	8.050	3.128	26.700
39	1.950	6.398	6.080	6.138	0.362	9.280	5.898	24.300
40	2.000	6.562	6.790	6.849	0.472	9.450	6.892	24.300
41	2.050	6.726	7.660	7.719	0.352	9.410	4.560	35.100
42	2.100	6.890	16.750	16.806	0.396	9.020	2.356	40.800
43	2.150	7.054	17.700	17.825	0.489	19.990	2.743	45.600
44	2.200	7.218	10.110	10.146	0.561	5.690	5.530	53.100
45	2.250	7.382	9.340	9.375	0.284	5.660	3.029	63.100
46	2.300	7.546	2.370	2.392	0.195	3.490	8.153	69.900
47	2.350	7.710	3.370	3.403	0.118	5.280	3.468	74.300
48	2.400	7.874	2.820	2.845	0.056	4.020	1.968	77.300
49	2.450	8.038	6.260	6.329	0.102	11.130	1.612	64.200
50	2.500	8.202	2.860	2.874	0.067	2.270	2.331	66.500
51	2.550	8.366	2.300	2.315	0.071	2.470	3.066	68.000
52	2.600	8.530	3.450	3.470	0.044	3.260	1.268	57.000
53	2.650	8.694	2.920	2.943	0.058	3.650	1.971	50.100
54	2.700	8.858	2.790	2.813	0.156	3.640	5.546	38.600
55	2.750	9.022	3.690	3.712	0.192	3.470	5.173	27.700
56	2.800	9.186	3.570	3.592	0.162	3.560	4.510	21.000
57	2.850	9.350	5.880	5.910	0.234	4.840	3.959	18.400
58	2.900	9.514	5.940	5.994	0.265	8.620	4.421	17.300
59	2.950	9.678	6.220	6.275	0.365	8.860	5.816	20.700
60	3.000	9.842	8.240	8.344	0.649	16.630	7.778	17.000
61	3.050	10.006	13.020	13.154	0.751	21.420	5.709	12.700
62	3.100	10.170	10.290	10.448	0.832	25.360	7.963	19.400
63	3.150	10.335	8.130	8.261	0.775	20.920	9.382	19.100
64	3.200	10.499	5.950	6.015	0.383	10.360	6.368	22.500
65	3.250	10.663	3.670	3.696	0.216	4.110	5.845	28.000
66	3.300	10.827	5.090	5.142	0.238	8.360	4.628	22.200
67	3.350	10.991	7.940	7.964	0.293	3.800	3.679	32.800
68	3.400	11.155	6.210	6.308	0.386	15.730	6.119	39.800
69	3.450	11.319	7.980	7.960	0.467	-3.140	5.867	55.300
70	3.500	11.483	12.980	13.057	0.310	12.360	2.374	63.700
71	3.550	11.647	3.600	3.792	0.238	30.750	6.276	75.200
72	3.600	11.811	4.180	4.340	0.081	25.590	1.866	88.400
73	3.650	11.975	3.000	3.167	0.183	26.720	5.779	88.300
74	3.700	12.139	3.510	3.671	0.185	25.770	5.040	85.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	10.010	11.153	0.239	183.110	2.143	76.900
76	3.800	12.467	26.440	27.929	0.327	238.540	1.171	71.100
77	3.850	12.631	30.100	30.500	0.455	64.130	1.492	56.800
78	3.900	12.795	23.540	23.631	0.508	14.500	2.150	34.200
79	3.950	12.959	32.800	32.877	0.686	12.410	2.087	30.300
80	4.000	13.123	26.820	26.915	0.684	15.220	2.541	21.900
81	4.050	13.287	21.380	21.476	1.114	15.330	5.187	23.600
82	4.100	13.451	56.970	57.046	1.051	12.200	1.842	13.900
83	4.150	13.615	50.810	50.863	1.408	8.440	2.768	11.800
84	4.200	13.779	45.040	45.089	1.291	7.920	2.863	9.400
85	4.250	13.943	40.580	40.594	0.843	2.200	2.077	13.000
86	4.300	14.107	49.680	49.751	1.069	11.350	2.149	15.500
87	4.350	14.271	85.690	85.752	1.112	9.900	1.297	14.000
88	4.400	14.436	115.910	115.986	1.258	12.190	1.085	18.800
89	4.450	14.600	55.570	55.651	1.380	12.900	2.480	19.300
90	4.500	14.764	67.490	67.552	1.031	9.940	1.526	21.400
91	4.550	14.928	70.720	70.777	0.789	9.110	1.115	23.700
92	4.600	15.092	19.720	19.743	0.814	3.710	4.123	36.800
93	4.650	15.256	12.320	12.368	0.495	7.740	4.002	54.700
94	4.700	15.420	11.490	11.582	0.348	14.690	3.005	71.800
95	4.750	15.584	17.710	17.864	0.351	24.600	1.965	79.500
96	4.800	15.748	19.930	20.045	0.356	18.360	1.776	83.100
97	4.850	15.912	12.580	12.681	0.410	16.140	3.233	90.200
98	4.900	16.076	13.670	13.794	0.507	19.900	3.675	89.000
99	4.950	16.240	31.370	31.519	0.686	23.810	2.176	95.200
100	5.000	16.404	39.370	39.466	0.791	15.340	2.004	93.100
101	5.050	16.568	29.490	29.518	0.832	4.550	2.819	71.700
102	5.100	16.732	20.670	20.672	0.642	0.330	3.106	71.400
103	5.150	16.896	16.510	16.503	0.369	-1.140	2.236	51.500
104	5.200	17.060	25.530	25.518	0.693	-2.000	2.716	33.300
105	5.250	17.224	47.320	47.334	0.960	2.210	2.028	36.000
106	5.300	17.388	28.490	28.548	1.001	9.220	3.506	29.100
107	5.350	17.552	24.520	24.514	0.953	-0.980	3.888	18.900
108	5.400	17.716	35.560	35.659	0.781	15.840	2.190	17.700
109	5.450	17.880	36.620	36.689	0.731	11.030	1.992	19.100
110	5.500	18.044	21.610	21.664	0.564	8.580	2.603	19.600
111	5.550	18.208	7.410	7.450	0.267	6.380	3.584	21.900
112	5.600	18.372	6.290	6.344	0.257	8.730	4.051	22.400
113	5.650	18.537	30.460	30.514	0.321	8.600	1.052	27.500
114	5.700	18.701	10.820	10.882	0.310	9.870	2.849	25.300
115	5.750	18.865	4.530	4.494	0.336	-5.690	7.476	39.200
116	5.800	19.029	15.870	15.930	0.341	9.630	2.141	54.300
117	5.850	19.193	25.340	25.398	0.514	9.320	2.024	69.900
118	5.900	19.357	28.070	28.104	0.701	5.400	2.494	79.200
119	5.950	19.521	25.760	25.781	0.677	3.300	2.626	93.500
120	6.000	19.685	31.080	31.158	0.761	12.450	2.442	87.500
121	6.050	19.849	30.670	30.763	0.964	14.960	3.134	87.200
122	6.100	20.013	39.070	39.198	1.299	20.570	3.314	93.800
123	6.150	20.177	51.350	51.498	1.318	23.730	2.559	88.800
124	6.200	20.341	40.770	40.843	1.162	11.690	2.845	88.400
125	6.250	20.505	25.570	25.605	0.897	5.620	3.503	78.000
126	6.300	20.669	17.950	17.979	0.709	4.700	3.943	59.300
127	6.350	20.833	16.600	16.574	0.646	-4.170	3.898	47.100
128	6.400	20.997	17.120	17.136	0.534	2.510	3.116	36.900
129	6.450	21.161	26.340	26.404	0.304	10.180	1.151	33.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	23.600	23.632	0.139	5.200	0.588	26.500
131	6.550	21.489	19.390	19.439	0.176	7.920	0.905	29.300
132	6.600	21.653	13.560	13.617	0.457	9.160	3.356	39.500
133	6.650	21.817	24.950	24.997	0.594	7.600	2.376	50.500
134	6.700	21.981	17.550	17.614	0.613	10.310	3.480	65.300
135	6.750	22.145	9.370	9.478	0.508	17.370	5.360	60.500
136	6.800	22.309	5.890	5.977	0.377	13.900	6.308	63.900
137	6.850	22.473	4.990	5.042	0.245	8.270	4.860	65.700
138	6.900	22.638	8.060	8.125	0.325	10.460	4.000	57.300
139	6.950	22.802	24.230	24.290	0.441	9.680	1.816	50.500
140	7.000	22.966	34.440	34.524	0.469	13.420	1.358	48.900
141	7.050	23.130	35.990	36.086	0.581	15.450	1.610	63.400
142	7.100	23.294	24.420	24.490	0.706	11.140	2.883	59.300
143	7.150	23.458	25.570	25.657	0.669	13.960	2.607	64.500
144	7.200	23.622	13.290	13.438	0.671	23.700	4.993	69.200
145	7.250	23.786	12.780	12.910	0.497	20.840	3.850	74.700
146	7.300	23.950	12.820	12.961	0.490	22.630	3.780	74.200
147	7.350	24.114	13.730	13.868	0.474	22.090	3.418	75.000
148	7.400	24.278	16.860	16.981	0.571	19.450	3.362	64.600
149	7.450	24.442	27.090	27.282	0.720	30.710	2.639	70.500
150	7.500	24.606	54.560	54.704	0.888	23.000	1.623	70.800
151	7.550	24.770	113.730	113.885	1.219	24.800	1.070	79.800
152	7.600	24.934	117.390	117.478	1.700	14.080	1.447	90.700
153	7.650	25.098	98.500	98.585	1.979	13.620	2.007	83.800
154	7.700	25.262	74.020	74.101	2.211	12.900	2.984	85.700
155	7.750	25.426	45.800	45.863	2.109	10.120	4.598	82.400
156	7.800	25.590	37.120	37.186	1.442	10.520	3.878	86.800
157	7.850	25.754	31.410	31.536	1.235	20.160	3.916	79.100
158	7.900	25.918	27.710	27.828	1.082	18.900	3.888	73.200
159	7.950	26.082	24.100	24.211	1.151	17.760	4.754	75.600
160	8.000	26.246	20.590	20.693	1.195	16.480	5.775	64.700
161	8.050	26.410	20.670	20.773	1.213	16.430	5.839	52.800
162	8.100	26.574	42.430	42.542	1.105	17.890	2.597	39.300
163	8.150	26.739	70.540	70.657	1.478	18.720	2.092	39.400
164	8.200	26.903	65.960	66.041	1.275	12.950	1.931	23.900
165	8.250	27.067	60.830	60.879	0.929	7.910	1.526	18.400
166	8.300	27.231	14.060	14.163	0.836	16.440	5.903	14.500
167	8.350	27.395	29.000	29.108	0.778	17.320	2.673	17.900
168	8.400	27.559	26.710	26.840	0.660	20.750	2.459	12.300
169	8.450	27.723	35.410	35.511	0.558	16.250	1.571	14.700
170	8.500	27.887	56.520	56.614	0.937	15.040	1.655	17.100
171	8.550	28.051	92.790	92.877	0.661	13.980	0.712	17.900
172	8.600	28.215	142.370	142.433	1.332	10.060	0.935	17.600
173	8.650	28.379	153.370	153.439	2.463	11.120	1.605	19.800
174	8.700	28.543	135.360	135.591	2.263	37.010	1.669	27.800
175	8.750	28.707	20.000	20.088	1.528	14.140	7.606	28.900
176	8.800	28.871	20.070	20.101	0.769	4.940	3.826	35.400
177	8.850	29.035	40.570	40.750	0.756	28.830	1.855	39.800
178	8.900	29.199	68.750	68.884	1.670	21.390	2.424	49.500
179	8.950	29.363	55.120	55.204	1.344	13.520	2.435	62.300
180	9.000	29.527	38.380	38.439	1.207	9.380	3.140	76.700
181	9.050	29.691	46.140	46.224	0.902	13.530	1.951	80.200
182	9.100	29.855	29.270	29.325	0.664	8.760	2.264	78.500
183	9.150	30.019	21.900	21.962	0.625	9.990	2.846	74.700
184	9.200	30.183	16.010	16.064	0.592	8.650	3.685	64.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	10.120	10.167	0.434	7.450	4.269	61.000
186	9.300	30.511	16.820	16.865	0.382	7.150	2.265	48.400
187	9.350	30.675	55.530	55.620	0.422	14.430	0.759	51.500
188	9.400	30.840	181.460	181.540	1.408	12.830	0.776	45.900
189	9.450	31.004	170.740	170.848	2.291	17.230	1.341	48.200
190	9.500	31.168	137.850	137.920	2.132	11.250	1.546	64.400
191	9.550	31.332	106.600	106.715	2.724	18.420	2.553	60.700
192	9.600	31.496	93.990	94.086	3.381	15.350	3.594	68.700
193	9.650	31.660	91.710	91.904	4.103	31.060	4.464	64.200
194	9.700	31.824	130.400	130.491	3.290	14.510	2.521	71.200
195	9.750	31.988	97.760	97.846	2.342	13.750	2.394	77.800
196	9.800	32.152	70.570	70.633	1.592	10.160	2.254	69.600
197	9.850	32.316	51.120	51.173	1.394	8.410	2.724	61.200
198	9.900	32.480	40.210	40.256	2.069	7.400	5.140	39.300
199	9.950	32.644	45.280	45.318	1.846	6.110	4.073	35.100
200	10.000	32.808	59.350	59.377	1.005	4.380	1.693	26.600
201	10.050	32.972	55.680	55.713	1.421	5.290	2.551	25.800
202	10.100	33.136	70.560	70.729	1.839	27.070	2.600	23.400
203	10.150	33.300	64.770	64.880	2.408	17.580	3.711	28.200
204	10.200	33.464	68.730	68.785	2.045	8.780	2.973	29.900
205	10.250	33.628	129.480	129.587	2.443	17.160	1.885	31.000
206	10.300	33.792	229.090	229.232	4.429	22.750	1.932	34.700
207	10.350	33.956	190.550	190.663	5.765	18.180	3.024	47.800
208	10.400	34.120	116.760	116.869	4.664	17.530	3.991	49.800
209	10.450	34.284	54.320	54.462	2.923	22.740	5.367	71.500
210	10.500	34.448	42.910	43.549	1.471	102.380	3.378	102.100
211	10.550	34.612	41.610	42.103	1.344	79.030	3.192	123.300
212	10.600	34.776	34.380	34.710	1.304	52.870	3.757	147.500
213	10.650	34.941	30.590	30.870	1.186	44.900	3.842	200.100
214	10.700	35.105	46.230	46.453	1.342	35.670	2.889	295.300
215	10.750	35.269	72.110	72.551	1.559	70.590	2.149	454.500
216	10.800	35.433	53.390	53.810	2.128	67.330	3.955	566.200
217	10.850	35.597	48.250	48.694	2.407	71.110	4.943	578.700
218	10.900	35.761	155.660	156.422	3.160	122.020	2.020	572.100
219	10.950	35.925	213.710	214.002	4.071	46.750	1.902	498.100
220	11.000	36.089	105.640	105.855	3.595	34.520	3.396	427.100
221	11.050	36.253	79.430	79.569	2.503	22.280	3.146	396.100
222	11.100	36.417	59.590	59.630	1.474	6.460	2.472	393.500
223	11.150	36.581	32.970	33.006	1.306	5.770	3.957	390.300
224	11.200	36.745	23.240	23.280	1.115	6.380	4.790	385.300
225	11.250	36.909	25.460	25.505	0.944	7.180	3.701	0.000
226	11.300	37.073	28.190	28.242	0.917	8.390	3.247	0.000
227	11.350	37.237	33.730	33.783	0.886	8.500	2.623	0.000
228	11.400	37.401	34.150	34.202	0.941	8.290	2.751	0.000
229	11.450	37.565	35.800	35.852	0.954	8.250	2.661	0.000
230	11.500	37.729	46.240	46.292	1.017	8.300	2.197	0.000
231	11.550	37.893	47.520	47.572	1.108	8.340	2.329	0.000
232	11.600	38.057	51.570	51.627	0.983	9.190	1.904	0.000
233	11.650	38.221	131.260	131.330	1.498	11.170	1.141	0.000
234	11.700	38.385	119.120	119.205	5.636	13.680	4.728	0.000
235	11.750	38.549	95.360	95.431	3.719	11.350	3.897	0.000
236	11.800	38.713	126.150	126.153	5.114	0.540	4.054	0.000
237	11.850	38.877	170.770	170.832	4.482	9.910	2.624	0.000
238	11.900	39.042	79.030	79.059	4.826	4.640	6.104	0.000
239	11.950	39.206	386.360	386.390	0.000	4.780	0.000	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	428.550	428.581	0.000	4.960	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221530
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-2-4
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-05-2014
CPT Time:	17:36
CPT File:	13-53075_GP2-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722044.964
Northing / Lat:	4294249.339
Elevation:	145.170
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	66.590	66.643	5.019	8.530	7.531	61.800
2	0.100	0.328	438.590	438.868	5.391	44.510	1.228	70.200
3	0.150	0.492	299.420	300.143	5.189	115.880	1.729	83.800
4	0.200	0.656	232.750	236.112	4.987	538.540	2.112	78.400
5	0.250	0.820	275.740	275.840	4.937	16.010	1.790	79.900
6	0.300	0.984	225.400	226.182	4.557	125.340	2.015	75.800
7	0.350	1.148	208.360	209.784	4.127	228.130	1.967	88.600
8	0.400	1.312	216.280	216.270	3.315	-1.540	1.533	85.100
9	0.450	1.476	202.840	202.801	3.520	-6.320	1.736	81.800
10	0.500	1.640	187.670	187.682	2.956	1.860	1.575	87.500
11	0.550	1.804	162.310	162.331	2.243	3.440	1.382	88.000
12	0.600	1.968	121.140	121.159	1.728	3.050	1.426	84.700
13	0.650	2.133	80.950	80.971	1.503	3.330	1.856	59.700
14	0.700	2.297	53.780	53.802	1.337	3.590	2.485	60.600
15	0.750	2.461	37.250	37.271	0.771	3.330	2.069	51.200
16	0.800	2.625	29.440	29.464	0.532	3.860	1.806	30.100
17	0.850	2.789	10.940	10.964	0.349	3.910	3.183	26.200
18	0.900	2.953	12.540	12.546	0.414	1.030	3.300	31.200
19	0.950	3.117	29.120	29.147	0.479	4.320	1.643	17.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	39.800	39.825	0.773	4.000	1.941	18.800
21	1.050	3.445	15.480	15.500	0.915	3.170	5.903	18.100
22	1.100	3.609	9.890	10.006	0.669	18.590	6.686	17.100
23	1.150	3.773	37.400	37.507	0.827	17.110	2.205	21.700
24	1.200	3.937	66.780	66.840	0.878	9.600	1.314	21.700
25	1.250	4.101	44.330	44.376	1.249	7.390	2.815	25.500
26	1.300	4.265	31.040	31.050	1.353	1.550	4.358	36.200
27	1.350	4.429	20.370	20.416	0.951	7.430	4.658	31.200
28	1.400	4.593	18.880	18.901	0.669	3.290	3.540	39.400
29	1.450	4.757	34.570	34.612	0.507	6.760	1.465	55.400
30	1.500	4.921	16.150	16.177	0.334	4.290	2.065	68.900
31	1.550	5.085	11.540	11.584	0.166	7.060	1.433	63.800
32	1.600	5.249	24.400	24.480	0.213	12.820	0.870	87.900
33	1.650	5.413	40.570	40.635	0.252	10.440	0.620	78.800
34	1.700	5.577	28.960	29.072	0.410	18.000	1.410	92.600
35	1.750	5.741	16.210	16.246	0.486	5.690	2.992	110.400
36	1.800	5.905	13.300	13.306	0.498	0.990	3.743	96.800
37	1.850	6.069	13.790	13.780	0.524	-1.670	3.803	79.800
38	1.900	6.234	15.600	15.572	0.608	-4.540	3.905	68.500
39	1.950	6.398	17.090	17.029	0.621	-9.760	3.647	73.900
40	2.000	6.562	15.390	15.338	0.513	-8.330	3.345	85.100
41	2.050	6.726	10.460	10.410	0.373	-8.040	3.583	75.200
42	2.100	6.890	15.810	15.866	0.364	8.990	2.294	75.300
43	2.150	7.054	23.620	23.652	0.311	5.150	1.315	74.100
44	2.200	7.218	15.830	15.904	0.322	11.800	2.025	78.400
45	2.250	7.382	14.240	14.210	0.269	-4.770	1.893	79.400
46	2.300	7.546	10.730	10.756	0.352	4.100	3.273	81.200
47	2.350	7.710	19.670	19.984	0.598	50.260	2.992	71.900
48	2.400	7.874	56.400	56.531	1.050	20.940	1.857	75.600
49	2.450	8.038	105.480	105.519	1.112	6.280	1.054	54.000
50	2.500	8.202	109.460	109.688	1.132	36.560	1.032	59.100
51	2.550	8.366	252.460	252.465	0.977	0.810	0.387	37.200
52	2.600	8.530	248.950	248.957	0.948	1.170	0.381	36.100
53	2.650	8.694	192.200	192.202	1.039	0.300	0.541	45.400
54	2.700	8.858	136.800	136.798	1.308	-0.380	0.956	47.400
55	2.750	9.022	95.020	95.029	1.262	1.440	1.328	53.200
56	2.800	9.186	67.880	67.897	1.139	2.700	1.678	64.300
57	2.850	9.350	50.130	50.154	1.002	3.830	1.998	67.900
58	2.900	9.514	34.290	34.316	0.891	4.240	2.596	45.500
59	2.950	9.678	24.850	24.882	0.484	5.050	1.945	36.100
60	3.000	9.842	21.260	21.255	1.187	-0.860	5.585	29.300
61	3.050	10.006	70.640	70.693	1.679	8.460	2.375	26.400
62	3.100	10.170	14.160	14.168	1.354	1.270	9.557	39.900
63	3.150	10.335	16.340	16.307	0.950	-5.290	5.826	40.000
64	3.200	10.499	29.750	29.784	0.128	5.460	0.430	52.000
65	3.250	10.663	18.460	18.897	0.042	69.980	0.222	59.800
66	3.300	10.827	30.400	30.620	0.442	35.260	1.443	81.300
67	3.350	10.991	39.170	39.163	0.644	-1.120	1.644	93.300
68	3.400	11.155	27.300	27.277	0.579	-3.690	2.123	99.200
69	3.450	11.319	35.690	35.830	0.592	22.370	1.652	91.800
70	3.500	11.483	33.300	33.280	0.805	-3.260	2.419	95.100
71	3.550	11.647	32.610	32.601	0.776	-1.400	2.380	91.900
72	3.600	11.811	30.080	30.067	0.784	-2.070	2.608	86.700
73	3.650	11.975	28.510	28.490	0.691	-3.200	2.425	78.200
74	3.700	12.139	23.010	22.984	0.627	-4.170	2.728	74.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	19.590	19.545	0.537	-7.170	2.747	80.500
76	3.800	12.467	28.760	28.799	0.804	6.280	2.792	52.200
77	3.850	12.631	45.340	45.396	0.900	8.920	1.983	63.700
78	3.900	12.795	29.710	29.756	0.759	7.410	2.551	66.500
79	3.950	12.959	43.160	43.211	0.848	8.160	1.962	70.100
80	4.000	13.123	68.310	68.370	0.788	9.580	1.153	75.700
81	4.050	13.287	13.620	13.677	0.635	9.100	4.643	78.700
82	4.100	13.451	13.110	13.126	0.322	2.620	2.453	89.800
83	4.150	13.615	12.250	12.275	0.311	3.960	2.534	72.100
84	4.200	13.779	13.320	13.368	0.351	7.760	2.626	62.800
85	4.250	13.943	14.560	14.614	0.451	8.590	3.086	58.200
86	4.300	14.107	16.670	16.731	0.471	9.770	2.815	59.200
87	4.350	14.271	31.410	31.483	0.692	11.730	2.198	44.400
88	4.400	14.436	43.810	43.832	0.904	3.580	2.062	27.000
89	4.450	14.600	28.690	28.718	1.125	4.450	3.917	28.400
90	4.500	14.764	21.400	21.435	0.784	5.580	3.658	30.400
91	4.550	14.928	28.620	28.644	0.687	3.820	2.398	21.000
92	4.600	15.092	23.700	23.748	0.518	7.740	2.181	19.900
93	4.650	15.256	21.910	21.927	0.600	2.730	2.736	18.600
94	4.700	15.420	21.770	21.800	0.462	4.850	2.119	15.200
95	4.750	15.584	32.600	32.627	0.680	4.370	2.084	15.500
96	4.800	15.748	112.700	112.733	0.751	5.220	0.666	12.200
97	4.850	15.912	43.010	43.027	0.595	2.750	1.383	16.500
98	4.900	16.076	30.900	30.929	0.651	4.620	2.105	12.500
99	4.950	16.240	49.000	49.042	0.556	6.710	1.134	17.400
100	5.000	16.404	95.060	95.079	0.820	3.050	0.862	24.600
101	5.050	16.568	62.990	63.072	0.963	13.200	1.527	26.300
102	5.100	16.732	16.330	16.325	0.803	-0.790	4.919	27.800
103	5.150	16.896	18.620	18.657	0.651	6.000	3.489	37.800
104	5.200	17.060	12.420	12.494	0.372	11.930	2.977	51.700
105	5.250	17.224	6.940	7.037	0.331	15.540	4.704	60.700
106	5.300	17.388	8.570	8.720	0.266	24.100	3.050	77.700
107	5.350	17.552	13.070	13.185	0.377	18.370	2.859	92.900
108	5.400	17.716	30.280	30.286	0.468	1.010	1.545	89.600
109	5.450	17.880	25.190	25.205	0.592	2.460	2.349	91.900
110	5.500	18.044	23.590	23.682	0.615	14.710	2.597	105.600
111	5.550	18.208	20.900	20.950	0.514	7.950	2.454	93.400
112	5.600	18.372	20.660	20.764	0.451	16.720	2.172	93.100
113	5.650	18.537	19.900	20.008	0.387	17.250	1.934	88.000
114	5.700	18.701	17.320	17.402	0.290	13.200	1.666	77.000
115	5.750	18.865	14.370	14.503	0.268	21.230	1.848	71.400
116	5.800	19.029	13.250	13.426	0.267	28.210	1.989	46.600
117	5.850	19.193	15.730	15.843	0.480	18.160	3.030	46.000
118	5.900	19.357	26.520	26.590	0.630	11.200	2.369	40.800
119	5.950	19.521	22.610	22.643	0.560	5.300	2.473	23.000
120	6.000	19.685	41.140	41.179	0.332	6.250	0.806	27.200
121	6.050	19.849	16.280	16.325	0.752	7.270	4.606	20.400
122	6.100	20.013	40.370	40.420	0.985	8.070	2.437	23.000
123	6.150	20.177	33.820	33.893	1.022	11.660	3.015	22.800
124	6.200	20.341	31.900	32.105	1.244	32.910	3.875	31.400
125	6.250	20.505	56.710	56.799	1.331	14.210	2.343	30.900
126	6.300	20.669	59.080	59.169	1.413	14.260	2.388	36.000
127	6.350	20.833	75.030	75.071	1.614	6.580	2.150	35.900
128	6.400	20.997	47.930	47.979	1.563	7.890	3.258	40.200
129	6.450	21.161	36.300	36.358	1.134	9.220	3.119	54.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	21.890	21.962	0.869	11.550	3.957	69.400
131	6.550	21.489	16.130	16.273	0.642	22.970	3.945	80.400
132	6.600	21.653	14.640	14.884	0.384	39.020	2.580	89.400
133	6.650	21.817	13.090	13.349	0.224	41.440	1.678	86.900
134	6.700	21.981	22.900	23.524	0.411	100.030	1.747	86.300
135	6.750	22.145	46.740	46.715	0.587	-4.080	1.257	93.500
136	6.800	22.309	38.430	38.417	0.864	-2.040	2.249	86.400
137	6.850	22.473	39.900	39.998	0.901	15.760	2.253	75.900
138	6.900	22.638	38.010	37.978	0.820	-5.050	2.159	65.400
139	6.950	22.802	31.570	31.541	0.858	-4.720	2.720	56.800
140	7.000	22.966	29.020	29.000	0.556	-3.270	1.917	38.500
141	7.050	23.130	47.020	46.993	0.665	-4.370	1.415	34.400
142	7.100	23.294	32.980	33.014	0.599	5.490	1.814	33.700
143	7.150	23.458	19.090	19.144	0.734	8.570	3.834	36.100
144	7.200	23.622	8.170	8.229	0.646	9.470	7.850	40.500
145	7.250	23.786	25.830	25.890	0.685	9.590	2.646	50.900
146	7.300	23.950	15.000	15.023	0.784	3.680	5.219	60.900
147	7.350	24.114	27.240	27.346	0.672	17.040	2.457	81.500
148	7.400	24.278	23.380	23.682	0.698	48.340	2.947	83.800
149	7.450	24.442	42.900	43.007	0.732	17.080	1.702	75.800
150	7.500	24.606	62.720	62.757	0.951	6.000	1.515	77.200
151	7.550	24.770	65.430	65.480	1.197	8.080	1.828	89.100
152	7.600	24.934	72.310	72.353	1.308	6.820	1.808	87.000
153	7.650	25.098	73.820	73.824	1.379	0.640	1.868	80.200
154	7.700	25.262	67.210	67.219	1.391	1.410	2.069	71.100
155	7.750	25.426	50.240	50.248	1.475	1.210	2.935	45.700
156	7.800	25.590	35.260	35.266	1.360	0.920	3.856	41.900
157	7.850	25.754	43.640	43.682	1.292	6.680	2.958	30.500
158	7.900	25.918	30.740	30.844	1.524	16.590	4.941	29.200
159	7.950	26.082	39.080	39.149	1.806	10.990	4.613	26.900
160	8.000	26.246	29.470	29.769	1.424	47.850	4.784	16.400
161	8.050	26.410	30.690	31.364	1.118	107.890	3.565	16.200
162	8.100	26.574	36.430	36.488	0.630	9.220	1.727	10.900
163	8.150	26.739	30.910	31.024	0.877	18.290	2.827	14.200
164	8.200	26.903	17.230	17.229	0.813	-0.200	4.719	16.700
165	8.250	27.067	17.910	17.990	0.605	12.830	3.363	14.000
166	8.300	27.231	28.370	28.435	0.415	10.460	1.459	18.300
167	8.350	27.395	40.680	40.715	0.761	5.560	1.869	19.500
168	8.400	27.559	37.310	37.412	0.852	16.340	2.277	22.100
169	8.450	27.723	36.390	36.521	1.080	20.990	2.957	26.800
170	8.500	27.887	23.970	24.062	0.888	14.750	3.690	15.600
171	8.550	28.051	14.990	15.173	0.749	29.240	4.937	23.400
172	8.600	28.215	37.810	37.884	0.807	11.810	2.130	21.100
173	8.650	28.379	49.560	49.597	1.087	5.860	2.192	17.900
174	8.700	28.543	24.580	24.663	1.141	13.280	4.626	37.500
175	8.750	28.707	16.590	16.840	1.069	40.080	6.348	41.100
176	8.800	28.871	18.430	18.879	0.932	71.960	4.937	61.100
177	8.850	29.035	23.430	23.929	0.747	79.970	3.122	81.700
178	8.900	29.199	22.850	23.314	0.833	74.370	3.573	113.600
179	8.950	29.363	21.760	21.825	0.809	10.410	3.707	172.000
180	9.000	29.527	16.690	16.665	0.796	-4.080	4.777	151.400
181	9.050	29.691	27.500	27.560	0.926	9.630	3.360	166.100
182	9.100	29.855	33.720	33.778	0.935	9.270	2.768	127.500
183	9.150	30.019	46.480	46.498	1.034	2.900	2.224	118.100
184	9.200	30.183	23.630	23.658	1.431	4.510	6.049	97.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	29.800	29.804	1.586	0.650	5.321	86.800
186	9.300	30.511	38.840	38.860	1.353	3.240	3.482	67.400
187	9.350	30.675	38.460	38.484	1.569	3.790	4.077	47.300
188	9.400	30.840	69.920	69.937	1.939	2.680	2.773	49.200
189	9.450	31.004	51.870	51.888	1.774	2.840	3.419	40.500
190	9.500	31.168	37.720	37.755	1.276	5.550	3.380	45.300
191	9.550	31.332	27.110	27.135	1.162	3.940	4.282	35.200
192	9.600	31.496	25.930	25.953	1.085	3.700	4.181	38.300
193	9.650	31.660	21.350	21.349	1.387	-0.200	6.497	46.000
194	9.700	31.824	35.710	35.731	1.196	3.350	3.347	46.700
195	9.750	31.988	75.540	75.581	1.069	6.490	1.414	46.200
196	9.800	32.152	25.490	25.511	1.181	3.290	4.629	49.700
197	9.850	32.316	40.440	40.528	1.179	14.110	2.909	47.300
198	9.900	32.480	47.110	47.151	0.709	6.570	1.504	51.600
199	9.950	32.644	56.610	56.670	0.538	9.590	0.949	48.000
200	10.000	32.808	49.330	49.363	0.582	5.340	1.179	43.000
201	10.050	32.972	38.090	38.111	0.752	3.430	1.973	48.300
202	10.100	33.136	33.210	33.231	0.486	3.340	1.462	36.400
203	10.150	33.300	25.750	25.779	0.334	4.690	1.296	29.900
204	10.200	33.464	11.730	11.788	0.364	9.230	3.088	22.500
205	10.250	33.628	6.100	6.125	0.302	3.990	4.931	20.000
206	10.300	33.792	5.840	5.872	0.340	5.090	5.790	18.400
207	10.350	33.956	20.020	20.042	0.671	3.460	3.348	16.000
208	10.400	34.120	26.750	26.795	0.707	7.140	2.639	11.300
209	10.450	34.284	32.440	32.413	0.903	-4.300	2.786	12.600
210	10.500	34.448	18.150	18.195	0.875	7.260	4.809	14.300
211	10.550	34.612	14.110	14.185	0.813	12.010	5.731	15.900
212	10.600	34.776	16.310	16.342	0.778	5.060	4.761	10.300
213	10.650	34.941	59.750	59.767	1.089	2.790	1.822	8.900
214	10.700	35.105	46.510	46.737	1.381	36.300	2.955	10.900
215	10.750	35.269	31.110	31.297	1.436	29.960	4.588	13.200
216	10.800	35.433	45.910	45.973	1.223	10.090	2.660	15.600
217	10.850	35.597	40.530	40.552	1.318	3.500	3.250	14.000
218	10.900	35.761	38.330	38.352	1.271	3.600	3.314	17.200
219	10.950	35.925	20.280	20.282	1.138	0.270	5.611	19.200
220	11.000	36.089	48.460	48.488	1.249	4.460	2.576	22.200
221	11.050	36.253	50.860	50.879	1.301	3.080	2.557	32.300
222	11.100	36.417	28.540	28.607	1.348	10.730	4.712	31.900
223	11.150	36.581	33.160	33.193	1.035	5.260	3.118	29.100
224	11.200	36.745	26.080	26.105	0.769	3.950	2.946	29.000
225	11.250	36.909	23.870	23.867	0.474	-0.460	1.986	24.800
226	11.300	37.073	20.010	20.057	0.668	7.560	3.330	24.800
227	11.350	37.237	35.950	35.976	0.823	4.230	2.288	25.400
228	11.400	37.401	19.930	19.949	0.710	3.050	3.559	16.100
229	11.450	37.565	22.120	22.160	0.555	6.410	2.505	18.200
230	11.500	37.729	36.590	36.616	0.392	4.170	1.071	17.000
231	11.550	37.893	14.620	14.669	0.463	7.870	3.156	19.600
232	11.600	38.057	11.520	11.552	0.464	5.190	4.016	16.900
233	11.650	38.221	3.930	3.956	0.422	4.120	10.668	21.100
234	11.700	38.385	7.420	7.454	0.309	5.490	4.145	18.500
235	11.750	38.549	6.550	6.568	0.334	2.810	5.086	27.400
236	11.800	38.713	9.000	9.045	0.433	7.230	4.787	22.000
237	11.850	38.877	10.140	10.173	0.523	5.290	5.141	27.200
238	11.900	39.042	33.780	33.822	0.321	6.760	0.949	28.600
239	11.950	39.206	68.460	68.483	0.662	3.640	0.967	31.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	84.320	84.349	0.982	4.600	1.164	30.900
241	12.050	39.534	36.150	36.173	0.983	3.670	2.718	45.600
242	12.100	39.698	24.040	24.068	0.678	4.560	2.817	54.600
243	12.150	39.862	23.830	23.864	0.205	5.390	0.859	54.600
244	12.200	40.026	12.820	12.858	0.217	6.060	1.688	60.700
245	12.250	40.190	19.420	19.471	0.300	8.150	1.541	54.000
246	12.300	40.354	27.250	27.303	0.536	8.480	1.963	79.600
247	12.350	40.518	32.670	32.755	1.016	13.600	3.102	77.100
248	12.400	40.682	39.940	40.053	1.325	18.080	3.308	84.400
249	12.450	40.846	37.790	37.856	1.289	10.610	3.405	80.300
250	12.500	41.010	34.840	34.931	1.087	14.630	3.112	65.700
251	12.550	41.174	30.320	30.369	1.526	7.890	5.025	54.200
252	12.600	41.338	28.160	28.109	1.130	-8.200	4.020	43.800
253	12.650	41.502	23.770	23.715	1.208	-8.860	5.094	36.900
254	12.700	41.666	79.730	79.759	1.053	4.600	1.320	25.800
255	12.750	41.830	12.890	12.901	0.920	1.760	7.131	15.700
256	12.800	41.994	17.240	17.256	0.504	2.620	2.921	19.400
257	12.850	42.158	8.540	8.580	0.416	6.330	4.849	20.100
258	12.900	42.322	8.790	8.815	0.802	4.060	9.098	12.700
259	12.950	42.486	29.750	29.777	0.887	4.340	2.979	13.000
260	13.000	42.650	25.360	25.382	1.148	3.560	4.523	13.600
261	13.050	42.814	114.200	114.238	2.108	6.090	1.845	14.000
262	13.100	42.978	72.840	72.876	2.715	5.750	3.726	12.900
263	13.150	43.143	62.010	62.068	2.481	9.350	3.997	20.400
264	13.200	43.307	31.600	31.671	1.854	11.410	5.854	23.700
265	13.250	43.471	60.440	60.821	1.910	60.960	3.140	33.800
266	13.300	43.635	92.440	92.615	2.018	28.070	2.179	24.900
267	13.350	43.799	129.620	130.000	1.624	60.910	1.249	30.000
268	13.400	43.963	75.150	75.173	1.027	3.760	1.366	30.000
269	13.450	44.127	60.380	60.401	1.278	3.420	2.116	29.300
270	13.500	44.291	68.970	69.017	1.485	7.600	2.152	28.900
271	13.550	44.455	77.150	77.140	1.725	-1.570	2.236	13.500
272	13.600	44.619	76.830	76.889	1.822	9.450	2.370	16.500
273	13.650	44.783	99.610	99.615	1.941	0.800	1.949	12.400
274	13.700	44.947	99.080	99.123	1.942	6.890	1.959	14.300
275	13.750	45.111	25.020	25.078	1.728	9.230	6.891	22.100
276	13.800	45.275	29.990	30.158	1.127	26.940	3.737	19.700
277	13.850	45.439	46.620	46.710	0.993	14.400	2.126	24.200
278	13.900	45.603	46.720	47.020	1.333	48.030	2.835	25.300
279	13.950	45.767	44.420	44.784	1.565	58.250	3.495	23.400
280	14.000	45.931	58.650	58.680	1.153	4.870	1.965	30.400
281	14.050	46.095	160.300	160.333	1.223	5.330	0.763	39.000
282	14.100	46.259	73.840	73.874	1.037	5.390	1.404	43.700
283	14.150	46.423	42.820	42.841	1.142	3.390	2.666	51.500
284	14.200	46.587	58.980	59.016	0.719	5.760	1.218	61.600
285	14.250	46.751	57.240	57.272	0.757	5.090	1.322	57.800
286	14.300	46.915	96.990	97.031	0.768	6.540	0.792	56.500
287	14.350	47.079	111.840	111.889	0.935	7.800	0.836	56.600
288	14.400	47.244	126.650	126.706	1.004	8.970	0.792	60.800
289	14.450	47.408	138.500	138.551	1.156	8.180	0.834	47.500
290	14.500	47.572	141.450	141.504	1.227	8.700	0.867	59.600
291	14.550	47.736	141.240	141.291	1.245	8.220	0.881	65.300
292	14.600	47.900	145.120	145.168	1.251	7.630	0.862	65.600
293	14.650	48.064	148.910	148.954	1.256	7.010	0.843	60.400
294	14.700	48.228	155.040	155.087	1.302	7.530	0.840	60.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	173.590	173.634	1.452	7.120	0.836	43.800
296	14.800	48.556	184.950	184.997	1.470	7.510	0.795	49.700
297	14.850	48.720	188.180	188.227	1.659	7.540	0.881	52.800
298	14.900	48.884	182.270	182.314	1.867	7.000	1.024	59.500
299	14.950	49.048	167.830	167.874	1.891	6.970	1.126	56.200
300	15.000	49.212	152.030	152.072	1.833	6.780	1.205	53.900
301	15.050	49.376	140.370	140.413	1.645	6.890	1.172	65.400
302	15.100	49.540	135.670	135.715	1.511	7.180	1.113	65.000
303	15.150	49.704	143.680	143.728	1.494	7.760	1.039	51.800
304	15.200	49.868	143.110	143.159	1.491	7.920	1.041	51.700
305	15.250	50.032	137.200	137.247	1.525	7.530	1.111	54.900
306	15.300	50.196	134.000	134.046	1.402	7.410	1.046	58.500
307	15.350	50.360	134.260	134.309	1.405	7.860	1.046	53.200
308	15.400	50.524	134.520	134.570	1.619	8.040	1.203	61.400
309	15.450	50.688	135.000	135.051	1.471	8.240	1.089	53.600
310	15.500	50.852	119.380	119.431	1.585	8.160	1.327	0.000
311	15.550	51.016	133.240	133.295	1.632	8.780	1.224	0.000
312	15.600	51.180	128.470	128.526	1.603	8.900	1.247	0.000
313	15.650	51.345	130.790	130.849	1.591	9.440	1.216	0.000
314	15.700	51.509	144.710	144.766	1.638	9.020	1.131	0.000
315	15.750	51.673	148.830	148.888	1.668	9.360	1.120	0.000
316	15.800	51.837	148.470	148.531	1.691	9.760	1.138	0.000
317	15.850	52.001	149.500	149.560	1.710	9.660	1.143	0.000
318	15.900	52.165	153.830	153.895	1.737	10.490	1.129	0.000
319	15.950	52.329	170.280	170.350	2.065	11.190	1.212	0.000
320	16.000	52.493	201.290	201.364	2.463	11.910	1.223	0.000
321	16.050	52.657	217.320	217.378	3.098	9.290	1.425	0.000
322	16.100	52.821	229.410	229.466	3.021	9.020	1.317	0.000
323	16.150	52.985	215.650	215.690	3.000	6.470	1.391	0.000
324	16.200	53.149	247.860	247.909	0.000	7.800	0.000	0.000
325	16.250	53.313	252.910	252.947	0.000	5.900	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221531
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-3-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	07:55
CPT File:	13-53075_GP3-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722044.564
Northing / Lat:	4294273.829
Elevation:	144.650
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	9.210	9.262	0.065	8.400	0.702	62.400
2	0.100	0.328	24.210	24.218	0.148	1.260	0.611	74.300
3	0.150	0.492	40.840	40.856	0.254	2.600	0.622	77.300
4	0.200	0.656	52.130	52.134	0.372	0.680	0.714	85.900
5	0.250	0.820	60.330	60.329	0.874	-0.180	1.449	91.400
6	0.300	0.984	79.060	79.064	0.656	0.610	0.830	81.600
7	0.350	1.148	147.610	147.653	0.680	6.940	0.461	81.500
8	0.400	1.312	221.960	222.019	0.809	9.380	0.364	65.900
9	0.450	1.476	216.880	216.928	0.647	7.680	0.298	60.600
10	0.500	1.640	206.610	206.658	0.452	7.670	0.219	62.900
11	0.550	1.804	186.660	186.701	0.545	6.620	0.292	63.400
12	0.600	1.968	151.750	151.796	0.497	7.300	0.327	56.300
13	0.650	2.133	140.280	140.317	0.585	5.940	0.417	70.000
14	0.700	2.297	121.200	121.279	0.622	12.640	0.513	73.500
15	0.750	2.461	91.390	91.422	0.828	5.120	0.906	68.800
16	0.800	2.625	75.880	75.902	0.939	3.460	1.237	83.000
17	0.850	2.789	54.710	54.747	1.086	5.930	1.984	82.600
18	0.900	2.953	44.040	44.070	1.113	4.860	2.526	82.100
19	0.950	3.117	38.380	38.417	1.017	5.990	2.647	84.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	34.110	34.132	0.906	3.550	2.654	84.300
21	1.050	3.445	31.970	31.988	0.850	2.850	2.657	91.500
22	1.100	3.609	31.480	31.499	0.771	2.990	2.448	89.900
23	1.150	3.773	33.550	33.576	0.710	4.210	2.115	94.100
24	1.200	3.937	38.770	38.793	0.704	3.680	1.815	90.800
25	1.250	4.101	37.550	37.565	0.691	2.370	1.839	94.400
26	1.300	4.265	34.380	34.389	0.735	1.470	2.137	83.700
27	1.350	4.429	31.400	31.408	0.675	1.300	2.149	95.400
28	1.400	4.593	37.800	37.818	0.720	2.900	1.904	94.300
29	1.450	4.757	54.240	54.256	0.841	2.500	1.550	95.000
30	1.500	4.921	70.310	70.337	0.901	4.280	1.281	0.000
31	1.550	5.085	76.540	76.565	1.105	4.010	1.443	0.000
32	1.600	5.249	78.710	78.770	1.342	9.630	1.704	0.000
33	1.650	5.413	87.710	87.743	1.757	5.240	2.002	0.000
34	1.700	5.577	105.000	105.029	1.924	4.570	1.832	0.000
35	1.750	5.741	131.440	131.459	1.982	3.110	1.508	0.000
36	1.800	5.905	144.070	144.072	1.911	0.300	1.326	0.000
37	1.850	6.069	128.180	128.167	2.185	-2.160	1.705	0.000
38	1.900	6.234	91.450	91.429	1.928	-3.380	2.109	0.000
39	1.950	6.398	59.130	59.112	0.992	-2.870	1.678	0.000
40	2.000	6.562	83.390	83.374	1.086	-2.500	1.303	0.000
41	2.050	6.726	138.390	138.387	1.261	-0.470	0.911	0.000
42	2.100	6.890	191.930	191.937	0.394	1.160	0.205	0.000
43	2.150	7.054	230.920	230.907	0.597	-2.070	0.259	0.000
44	2.200	7.218	392.180	392.178	0.000	-0.270	0.000	0.000
45	2.250	7.382	398.370	398.368	0.000	-0.360	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221533
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-3-1A
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	07:56
CPT File:	13-53075_GP3-1A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722044.659
Northing / Lat:	4294273.723
Elevation:	144.650
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.940	2.955	0.003	2.460	0.102	55.400
2	0.100	0.328	27.540	27.551	0.042	1.770	0.152	68.800
3	0.150	0.492	46.390	46.400	0.209	1.680	0.450	74.400
4	0.200	0.656	75.170	75.175	0.510	0.740	0.678	68.600
5	0.250	0.820	117.430	117.435	1.300	0.750	1.107	80.500
6	0.300	0.984	155.920	155.932	1.719	1.880	1.102	84.800
7	0.350	1.148	175.770	175.784	2.179	2.220	1.240	69.400
8	0.400	1.312	155.710	155.716	2.072	1.010	1.331	74.500
9	0.450	1.476	132.280	132.290	1.273	1.540	0.962	68.100
10	0.500	1.640	110.580	110.602	1.039	3.520	0.939	72.500
11	0.550	1.804	68.130	68.150	1.071	3.200	1.572	70.000
12	0.600	1.968	49.920	49.961	0.960	6.530	1.922	75.300
13	0.650	2.133	35.070	35.097	0.952	4.390	2.712	78.900
14	0.700	2.297	21.360	21.377	0.795	2.660	3.719	82.900
15	0.750	2.461	15.610	15.632	0.562	3.470	3.595	80.300
16	0.800	2.625	22.000	22.029	0.469	4.610	2.129	88.000
17	0.850	2.789	28.950	28.977	0.411	4.290	1.418	89.100
18	0.900	2.953	25.940	25.957	0.538	2.660	2.073	89.500
19	0.950	3.117	23.590	23.604	0.565	2.310	2.394	88.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	21.450	21.466	0.624	2.600	2.907	98.300
21	1.050	3.445	21.700	21.719	0.731	2.980	3.366	93.100
22	1.100	3.609	23.530	23.549	0.817	2.990	3.469	84.100
23	1.150	3.773	25.620	25.639	0.834	3.120	3.253	91.500
24	1.200	3.937	23.530	23.549	0.857	3.050	3.639	89.200
25	1.250	4.101	23.700	23.719	0.859	2.980	3.622	88.800
26	1.300	4.265	23.110	23.128	0.613	2.900	2.650	88.600
27	1.350	4.429	21.910	21.928	0.660	2.810	3.010	85.500
28	1.400	4.593	75.690	75.674	0.875	-2.630	1.156	76.100
29	1.450	4.757	62.770	62.765	1.185	-0.860	1.888	80.200
30	1.500	4.921	54.440	54.475	1.443	5.660	2.649	88.800
31	1.550	5.085	50.200	50.215	1.508	2.420	3.003	98.100
32	1.600	5.249	46.700	46.709	1.409	1.490	3.017	89.400
33	1.650	5.413	42.640	42.630	1.374	-1.630	3.223	89.500
34	1.700	5.577	41.300	41.269	1.234	-5.010	2.990	91.100
35	1.750	5.741	43.990	43.959	1.285	-4.940	2.923	95.500
36	1.800	5.905	37.700	37.668	1.289	-5.170	3.422	95.600
37	1.850	6.069	36.160	36.131	1.246	-4.710	3.449	101.900
38	1.900	6.234	53.160	53.145	1.328	-2.480	2.499	101.400
39	1.950	6.398	69.570	69.556	1.739	-2.200	2.500	99.200
40	2.000	6.562	64.770	64.753	2.451	-2.750	3.785	99.900
41	2.050	6.726	71.160	71.145	2.704	-2.460	3.801	102.200
42	2.100	6.890	108.340	108.332	2.511	-1.350	2.318	105.200
43	2.150	7.054	99.830	99.816	2.430	-2.290	2.434	91.100
44	2.200	7.218	71.500	71.474	2.597	-4.230	3.634	83.000
45	2.250	7.382	56.670	56.638	2.496	-5.080	4.407	101.200
46	2.300	7.546	41.100	41.068	1.978	-5.140	4.816	96.300
47	2.350	7.710	34.680	34.652	1.827	-4.520	5.272	95.500
48	2.400	7.874	93.700	93.698	1.997	-0.330	2.131	89.100
49	2.450	8.038	122.940	122.937	1.902	-0.410	1.547	82.000
50	2.500	8.202	108.490	108.483	1.792	-1.140	1.652	97.400
51	2.550	8.366	99.120	99.108	1.873	-1.940	1.890	95.800
52	2.600	8.530	84.430	84.414	1.982	-2.580	2.348	89.700
53	2.650	8.694	68.370	68.356	1.868	-2.260	2.733	105.300
54	2.700	8.858	54.040	54.024	1.887	-2.640	3.493	89.000
55	2.750	9.022	41.040	41.022	1.610	-2.920	3.925	90.000
56	2.800	9.186	37.100	37.081	1.464	-3.020	3.948	77.600
57	2.850	9.350	29.520	29.495	1.211	-4.020	4.106	55.300
58	2.900	9.514	41.820	41.797	1.317	-3.760	3.151	51.600
59	2.950	9.678	69.440	69.444	1.448	0.610	2.085	30.600
60	3.000	9.842	34.520	34.509	1.342	-1.800	3.889	30.900
61	3.050	10.006	27.990	28.015	0.947	3.950	3.380	26.100
62	3.100	10.170	51.570	51.573	0.861	0.410	1.669	30.300
63	3.150	10.335	46.480	46.476	0.714	-0.610	1.536	32.200
64	3.200	10.499	75.570	75.656	0.786	13.780	1.039	29.600
65	3.250	10.663	50.670	50.691	0.714	3.330	1.409	38.500
66	3.300	10.827	30.500	30.523	0.565	3.660	1.851	50.900
67	3.350	10.991	10.030	10.036	0.463	0.960	4.613	54.600
68	3.400	11.155	8.400	8.452	0.348	8.340	4.117	76.900
69	3.450	11.319	15.710	15.772	0.437	9.910	2.771	81.500
70	3.500	11.483	18.830	18.887	0.379	9.180	2.007	79.200
71	3.550	11.647	18.230	18.282	0.441	8.340	2.412	58.500
72	3.600	11.811	12.000	12.023	0.359	3.630	2.986	56.600
73	3.650	11.975	17.070	17.061	0.419	-1.420	2.456	37.700
74	3.700	12.139	54.790	54.823	1.012	5.310	1.846	21.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	58.800	58.851	1.358	8.140	2.308	25.600
76	3.800	12.467	34.180	34.220	1.524	6.380	4.454	22.900
77	3.850	12.631	42.280	42.315	0.858	5.680	2.028	22.200
78	3.900	12.795	25.950	25.972	0.596	3.460	2.295	18.600
79	3.950	12.959	19.270	19.271	0.484	0.170	2.512	19.700
80	4.000	13.123	28.040	28.062	0.751	3.600	2.676	35.000
81	4.050	13.287	95.790	95.844	0.701	8.690	0.731	84.400
82	4.100	13.451	172.230	172.277	0.654	7.570	0.380	27.100
83	4.150	13.615	140.470	140.510	0.675	6.460	0.480	27.500
84	4.200	13.779	102.220	102.242	0.783	3.460	0.766	40.100
85	4.250	13.943	60.680	60.695	0.958	2.420	1.578	51.900
86	4.300	14.107	36.230	36.277	1.066	7.510	2.939	94.800
87	4.350	14.271	19.570	19.582	0.813	1.990	4.152	51.600
88	4.400	14.436	12.990	13.008	0.470	2.930	3.613	74.300
89	4.450	14.600	12.370	12.388	0.307	2.840	2.478	38.800
90	4.500	14.764	19.050	19.076	0.337	4.190	1.767	24.000
91	4.550	14.928	21.870	21.917	0.533	7.510	2.432	20.400
92	4.600	15.092	23.730	23.721	0.751	-1.510	3.166	19.200
93	4.650	15.256	20.540	20.576	0.732	5.790	3.558	20.200
94	4.700	15.420	22.250	22.296	0.847	7.290	3.799	16.000
95	4.750	15.584	15.460	15.505	0.578	7.260	3.728	13.900
96	4.800	15.748	20.290	20.321	0.467	4.970	2.298	14.300
97	4.850	15.912	24.620	24.638	0.567	2.840	2.301	10.900
98	4.900	16.076	26.160	26.201	0.723	6.620	2.759	19.100
99	4.950	16.240	17.640	17.664	0.857	3.870	4.852	14.000
100	5.000	16.404	28.650	28.693	0.930	6.930	3.241	20.700
101	5.050	16.568	36.100	36.123	0.692	3.710	1.916	18.600
102	5.100	16.732	19.070	19.114	0.810	7.070	4.238	23.400
103	5.150	16.896	132.350	132.378	0.798	4.430	0.603	34.100
104	5.200	17.060	128.470	128.502	0.990	5.170	0.770	31.900
105	5.250	17.224	111.510	111.543	1.585	5.350	1.421	50.500
106	5.300	17.388	66.860	66.885	1.535	3.930	2.295	49.900
107	5.350	17.552	44.970	44.993	1.589	3.610	3.532	54.500
108	5.400	17.716	32.750	32.777	1.256	4.270	3.832	52.800
109	5.450	17.880	31.020	31.071	1.051	8.230	3.383	54.600
110	5.500	18.044	21.940	22.038	0.880	15.650	3.993	50.800
111	5.550	18.208	18.290	18.392	0.619	16.320	3.366	61.700
112	5.600	18.372	22.940	23.046	0.519	17.020	2.252	67.900
113	5.650	18.537	37.420	37.395	0.696	-3.980	1.861	71.900
114	5.700	18.701	38.230	38.312	0.703	13.110	1.835	84.300
115	5.750	18.865	34.100	34.241	0.910	22.660	2.658	80.900
116	5.800	19.029	32.300	32.386	1.044	13.770	3.224	93.900
117	5.850	19.193	29.260	29.339	1.036	12.650	3.531	96.300
118	5.900	19.357	24.150	24.257	0.907	17.160	3.739	87.900
119	5.950	19.521	20.930	21.050	0.765	19.220	3.634	102.200
120	6.000	19.685	21.520	21.668	0.662	23.630	3.055	91.900
121	6.050	19.849	20.420	20.567	0.739	23.500	3.593	81.900
122	6.100	20.013	17.080	17.205	0.918	20.000	5.336	78.200
123	6.150	20.177	24.070	24.208	0.740	22.030	3.057	75.700
124	6.200	20.341	116.600	116.791	3.848	30.590	3.295	80.500
125	6.250	20.505	130.990	131.012	4.495	3.580	3.431	84.500
126	6.300	20.669	52.930	52.923	4.204	-1.150	7.944	94.300
127	6.350	20.833	46.340	46.319	2.142	-3.340	4.624	80.400
128	6.400	20.997	27.090	27.082	1.178	-1.280	4.350	98.900
129	6.450	21.161	20.760	20.754	0.984	-0.960	4.741	97.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	19.640	19.635	0.843	-0.820	4.293	75.000
131	6.550	21.489	36.410	36.409	0.955	-0.130	2.623	75.000
132	6.600	21.653	56.950	56.949	1.563	-0.100	2.745	72.000
133	6.650	21.817	45.930	45.930	1.537	-0.040	3.346	62.300
134	6.700	21.981	40.820	40.829	1.447	1.520	3.544	67.900
135	6.750	22.145	37.890	37.901	0.979	1.790	2.583	76.600
136	6.800	22.309	27.710	27.723	0.849	2.110	3.062	74.400
137	6.850	22.473	26.230	26.242	0.846	1.990	3.224	88.200
138	6.900	22.638	22.640	22.648	0.716	1.230	3.161	96.000
139	6.950	22.802	20.120	20.132	0.713	1.890	3.542	136.300
140	7.000	22.966	21.780	21.795	0.647	2.470	2.969	180.500
141	7.050	23.130	15.850	15.857	0.693	1.130	4.370	252.600
142	7.100	23.294	16.970	16.984	0.783	2.180	4.610	240.400
143	7.150	23.458	38.280	38.295	0.908	2.330	2.371	193.900
144	7.200	23.622	35.190	35.204	1.143	2.300	3.247	172.800
145	7.250	23.786	37.990	38.008	1.324	2.830	3.484	183.500
146	7.300	23.950	43.890	43.883	1.235	-1.160	2.814	197.300
147	7.350	24.114	68.280	68.263	1.318	-2.700	1.931	164.000
148	7.400	24.278	69.150	69.148	0.854	-0.380	1.235	147.500
149	7.450	24.442	39.330	39.331	0.499	0.170	1.269	107.100
150	7.500	24.606	11.460	11.550	0.469	14.380	4.061	100.600
151	7.550	24.770	17.210	17.287	0.490	12.370	2.834	89.200
152	7.600	24.934	18.980	19.028	0.436	7.730	2.291	83.000
153	7.650	25.098	13.610	13.652	0.352	6.680	2.578	83.200
154	7.700	25.262	16.010	16.063	0.374	8.550	2.328	86.100
155	7.750	25.426	21.120	21.189	0.423	10.990	1.996	97.400
156	7.800	25.590	27.280	27.353	0.604	11.730	2.208	78.700
157	7.850	25.754	24.260	24.291	0.703	4.930	2.894	81.000
158	7.900	25.918	21.320	21.436	0.763	18.590	3.559	91.700
159	7.950	26.082	19.030	19.138	0.572	17.320	2.989	81.700
160	8.000	26.246	19.350	19.442	0.562	14.750	2.891	86.300
161	8.050	26.410	14.100	14.167	0.382	10.770	2.696	94.700
162	8.100	26.574	20.150	20.205	0.325	8.850	1.608	120.100
163	8.150	26.739	37.570	37.609	0.707	6.180	1.880	134.800
164	8.200	26.903	52.770	52.782	0.814	1.940	1.542	194.600
165	8.250	27.067	32.540	32.606	0.923	10.620	2.831	282.000
166	8.300	27.231	18.640	18.718	0.777	12.470	4.151	471.200
167	8.350	27.395	16.390	16.466	0.510	12.120	3.097	766.000
168	8.400	27.559	14.690	14.771	0.522	12.980	3.534	1185.300
169	8.450	27.723	34.210	34.304	0.728	15.100	2.122	1313.500
170	8.500	27.887	26.990	27.081	0.862	14.500	3.183	1064.900
171	8.550	28.051	32.560	32.648	0.741	14.140	2.270	738.500
172	8.600	28.215	29.530	29.565	1.000	5.600	3.382	509.500
173	8.650	28.379	68.010	68.040	1.172	4.770	1.723	343.300
174	8.700	28.543	37.340	37.391	1.377	8.170	3.683	248.200
175	8.750	28.707	39.650	39.738	1.122	14.070	2.824	192.900
176	8.800	28.871	16.790	16.877	0.934	13.950	5.534	148.700
177	8.850	29.035	67.300	67.368	0.979	10.830	1.453	129.300
178	8.900	29.199	50.480	50.539	1.224	9.440	2.422	104.800
179	8.950	29.363	31.000	31.035	1.110	5.630	3.577	103.500
180	9.000	29.527	46.750	46.779	1.145	4.640	2.448	97.200
181	9.050	29.691	30.790	30.855	0.950	10.470	3.079	98.500
182	9.100	29.855	29.210	29.254	0.790	6.980	2.701	81.700
183	9.150	30.019	26.110	26.156	0.503	7.410	1.923	69.800
184	9.200	30.183	28.620	28.675	0.582	8.890	2.030	61.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	28.520	28.564	0.522	7.040	1.827	58.800
186	9.300	30.511	29.140	29.165	0.563	4.060	1.930	55.000
187	9.350	30.675	27.020	27.042	0.702	3.460	2.596	53.300
188	9.400	30.840	34.940	34.974	0.736	5.490	2.104	44.200
189	9.450	31.004	32.290	32.314	0.743	3.840	2.299	49.700
190	9.500	31.168	38.250	38.275	0.634	4.080	1.656	36.800
191	9.550	31.332	61.890	61.924	0.575	5.430	0.929	36.100
192	9.600	31.496	78.290	78.319	0.487	4.600	0.622	36.800
193	9.650	31.660	69.160	69.188	0.349	4.550	0.504	33.200
194	9.700	31.824	67.060	67.088	0.532	4.540	0.793	37.700
195	9.750	31.988	63.940	63.965	0.480	4.040	0.750	31.200
196	9.800	32.152	66.200	66.219	1.098	3.020	1.658	24.200
197	9.850	32.316	56.220	56.244	1.448	3.780	2.575	14.900
198	9.900	32.480	45.540	45.623	2.010	13.290	4.406	15.800
199	9.950	32.644	46.270	46.333	1.747	10.140	3.771	14.400
200	10.000	32.808	141.730	141.826	1.101	15.340	0.776	13.700
201	10.050	32.972	109.020	109.011	1.245	-1.440	1.142	13.700
202	10.100	33.136	68.680	68.856	1.419	28.270	2.061	16.900
203	10.150	33.300	61.980	62.117	1.381	21.900	2.223	10.000
204	10.200	33.464	61.470	61.592	1.340	19.470	2.176	13.700
205	10.250	33.628	65.570	65.655	0.844	13.690	1.285	14.900
206	10.300	33.792	70.620	70.715	1.247	15.230	1.763	22.300
207	10.350	33.956	88.220	88.314	1.629	15.110	1.845	17.900
208	10.400	34.120	39.280	39.435	1.675	24.770	4.248	16.400
209	10.450	34.284	45.320	45.536	1.842	34.580	4.045	26.900
210	10.500	34.448	87.420	87.584	1.973	26.330	2.253	11.900
211	10.550	34.612	68.740	68.840	1.875	16.090	2.724	14.700
212	10.600	34.776	24.380	24.615	1.729	37.690	7.024	11.400
213	10.650	34.941	28.130	28.506	1.539	60.310	5.399	15.900
214	10.700	35.105	79.410	79.581	1.546	27.370	1.943	25.700
215	10.750	35.269	64.950	65.068	1.593	18.970	2.448	27.200
216	10.800	35.433	46.290	46.361	1.739	11.300	3.751	28.700
217	10.850	35.597	38.250	38.367	1.443	18.690	3.761	32.000
218	10.900	35.761	46.440	46.578	1.493	22.060	3.205	21.300
219	10.950	35.925	56.280	56.407	1.530	20.310	2.712	27.300
220	11.000	36.089	63.910	64.102	1.810	30.800	2.824	20.500
221	11.050	36.253	60.520	60.728	1.958	33.290	3.224	20.800
222	11.100	36.417	60.020	60.143	1.778	19.630	2.956	16.600
223	11.150	36.581	61.840	62.085	1.660	39.170	2.674	16.000
224	11.200	36.745	48.710	48.816	1.511	17.040	3.095	16.600
225	11.250	36.909	63.750	63.968	1.112	34.940	1.738	32.400
226	11.300	37.073	72.400	72.540	1.129	22.390	1.556	28.700
227	11.350	37.237	70.470	70.576	1.563	16.930	2.215	33.200
228	11.400	37.401	79.940	80.049	1.884	17.410	2.354	24.200
229	11.450	37.565	51.910	52.230	2.102	51.250	4.025	23.200
230	11.500	37.729	50.430	50.958	1.631	84.610	3.201	29.000
231	11.550	37.893	25.590	26.075	1.083	77.700	4.153	35.000
232	11.600	38.057	22.280	22.646	0.907	58.570	4.005	35.700
233	11.650	38.221	44.350	44.623	0.970	43.760	2.174	43.600
234	11.700	38.385	43.530	43.612	1.017	13.190	2.332	38.200
235	11.750	38.549	38.710	38.768	1.014	9.300	2.616	30.500
236	11.800	38.713	37.230	37.294	1.004	10.330	2.692	0.000
237	11.850	38.877	47.900	47.943	0.981	6.810	2.046	0.000
238	11.900	39.042	40.350	40.404	0.998	8.700	2.470	0.000
239	11.950	39.206	26.320	26.379	1.159	9.400	4.394	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	34.260	34.349	1.015	14.230	2.955	0.000
241	12.050	39.534	35.910	35.974	0.960	10.200	2.669	0.000
242	12.100	39.698	32.220	32.356	1.114	21.850	3.443	0.000
243	12.150	39.862	34.910	35.033	1.123	19.740	3.206	0.000
244	12.200	40.026	48.870	48.940	1.255	11.250	2.564	0.000
245	12.250	40.190	57.530	57.615	1.209	13.540	2.098	0.000
246	12.300	40.354	61.120	61.219	1.321	15.900	2.158	0.000
247	12.350	40.518	79.550	79.646	1.465	15.350	1.839	0.000
248	12.400	40.682	108.130	108.221	2.182	14.500	2.016	0.000
249	12.450	40.846	131.430	131.569	2.559	22.330	1.945	0.000
250	12.500	41.010	101.580	101.735	0.000	24.760	0.000	0.000
251	12.550	41.174	96.060	96.147	0.000	13.970	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221534
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-3-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-24-2013
CPT Time:	09:02
CPT File:	13-53075_GP3-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722062.489
Northing / Lat:	4294250.649
Elevation:	145.891
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	37.160	37.238	0.155	12.470	0.416	70.000
2	0.100	0.328	35.200	35.292	0.325	14.760	0.921	74.900
3	0.150	0.492	40.760	40.808	0.538	7.670	1.318	74.800
4	0.200	0.656	35.850	35.919	0.735	11.120	2.046	81.500
5	0.250	0.820	27.630	27.668	0.806	6.090	2.913	88.300
6	0.300	0.984	19.400	19.478	0.692	12.430	3.553	103.100
7	0.350	1.148	35.980	36.106	0.693	20.170	1.919	98.900
8	0.400	1.312	42.230	42.251	0.685	3.380	1.621	91.000
9	0.450	1.476	44.040	44.058	0.748	2.950	1.698	88.200
10	0.500	1.640	34.570	34.625	0.801	8.820	2.313	91.000
11	0.550	1.804	29.930	29.959	0.700	4.640	2.337	91.800
12	0.600	1.968	27.470	27.495	0.635	3.930	2.310	92.400
13	0.650	2.133	28.750	28.760	0.540	1.620	1.878	71.700
14	0.700	2.297	27.370	27.368	0.816	-0.250	2.982	74.000
15	0.750	2.461	26.410	26.411	0.809	0.160	3.063	65.900
16	0.800	2.625	55.570	55.605	0.702	5.680	1.262	56.900
17	0.850	2.789	64.800	64.870	0.334	11.220	0.515	47.500
18	0.900	2.953	66.200	66.249	0.966	7.840	1.458	43.200
19	0.950	3.117	64.840	64.896	1.078	9.010	1.661	33.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	27.020	27.112	1.284	14.770	4.736	34.900
21	1.050	3.445	27.120	27.210	1.009	14.350	3.708	27.500
22	1.100	3.609	34.090	34.155	0.514	10.360	1.505	27.900
23	1.150	3.773	16.490	16.668	0.427	28.540	2.562	25.100
24	1.200	3.937	12.230	12.277	0.290	7.500	2.362	23.400
25	1.250	4.101	22.290	22.332	0.303	6.750	1.357	27.200
26	1.300	4.265	30.510	30.623	0.279	18.130	0.911	23.300
27	1.350	4.429	16.550	16.570	0.292	3.180	1.762	23.600
28	1.400	4.593	6.020	6.143	0.390	19.660	6.349	25.300
29	1.450	4.757	32.180	32.249	0.387	11.020	1.200	13.200
30	1.500	4.921	9.170	9.211	0.394	6.630	4.277	24.600
31	1.550	5.085	22.680	22.719	0.394	6.250	1.734	22.700
32	1.600	5.249	43.380	43.502	0.480	19.590	1.103	14.700
33	1.650	5.413	19.040	19.106	0.551	10.540	2.884	18.900
34	1.700	5.577	13.460	13.519	0.562	9.470	4.157	21.800
35	1.750	5.741	21.710	21.764	0.664	8.690	3.051	24.400
36	1.800	5.905	19.980	20.039	0.600	9.500	2.994	33.000
37	1.850	6.069	24.100	24.196	0.665	15.310	2.748	35.300
38	1.900	6.234	32.960	32.993	0.615	5.270	1.864	43.200
39	1.950	6.398	22.910	22.981	0.530	11.430	2.306	47.300
40	2.000	6.562	23.190	23.250	0.436	9.620	1.875	51.300
41	2.050	6.726	12.300	12.294	0.245	-1.040	1.993	57.400
42	2.100	6.890	4.160	4.234	0.243	11.910	5.739	61.800
43	2.150	7.054	4.370	4.427	0.200	9.160	4.518	69.400
44	2.200	7.218	6.980	7.155	0.288	27.990	4.025	65.800
45	2.250	7.382	7.140	7.248	0.358	17.300	4.939	69.400
46	2.300	7.546	6.640	6.765	0.400	20.090	5.912	69.500
47	2.350	7.710	7.570	7.887	0.339	50.850	4.298	75.600
48	2.400	7.874	9.180	9.417	0.242	38.040	2.570	84.300
49	2.450	8.038	20.860	21.066	0.224	33.000	1.063	77.100
50	2.500	8.202	16.040	16.084	0.238	6.990	1.480	74.100
51	2.550	8.366	9.020	9.065	0.198	7.180	2.184	58.000
52	2.600	8.530	5.360	5.407	0.230	7.480	4.254	70.100
53	2.650	8.694	12.030	12.104	0.252	11.800	2.082	60.100
54	2.700	8.858	8.020	8.118	0.271	15.650	3.338	65.000
55	2.750	9.022	8.230	8.389	0.292	25.510	3.481	70.200
56	2.800	9.186	11.840	12.200	0.374	57.660	3.066	76.900
57	2.850	9.350	19.240	19.391	0.570	24.110	2.940	85.500
58	2.900	9.514	41.340	41.545	0.775	32.810	1.865	84.600
59	2.950	9.678	55.670	55.742	1.187	11.570	2.129	82.800
60	3.000	9.842	74.810	74.811	1.599	0.140	2.137	86.000
61	3.050	10.006	62.700	62.706	1.462	0.930	2.332	83.800
62	3.100	10.170	145.410	145.437	1.262	4.290	0.868	65.400
63	3.150	10.335	124.710	124.701	1.318	-1.520	1.057	65.100
64	3.200	10.499	93.510	93.495	1.855	-2.450	1.984	67.900
65	3.250	10.663	72.850	72.863	2.136	2.020	2.932	72.800
66	3.300	10.827	50.130	50.109	2.256	-3.420	4.502	67.500
67	3.350	10.991	56.370	56.408	1.338	6.020	2.372	73.900
68	3.400	11.155	115.990	116.038	1.852	7.730	1.596	97.600
69	3.450	11.319	115.480	115.554	2.520	11.920	2.181	86.600
70	3.500	11.483	95.740	96.022	2.877	45.120	2.996	80.200
71	3.550	11.647	50.710	50.738	2.047	4.420	4.034	65.500
72	3.600	11.811	32.020	32.032	1.085	1.920	3.387	65.600
73	3.650	11.975	49.910	50.104	0.941	31.010	1.878	55.000
74	3.700	12.139	45.300	45.333	0.801	5.300	1.767	46.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	32.570	32.597	0.387	4.290	1.187	40.000
76	3.800	12.467	41.930	41.965	0.232	5.560	0.553	37.600
77	3.850	12.631	73.250	73.289	0.335	6.200	0.457	37.800
78	3.900	12.795	64.280	64.325	0.579	7.260	0.900	48.100
79	3.950	12.959	64.410	64.556	0.485	23.440	0.751	45.900
80	4.000	13.123	65.080	65.111	0.921	4.950	1.415	59.400
81	4.050	13.287	65.640	65.713	0.789	11.640	1.201	68.100
82	4.100	13.451	78.240	78.278	0.839	6.160	1.072	66.500
83	4.150	13.615	70.940	70.985	0.567	7.230	0.799	81.900
84	4.200	13.779	54.090	54.109	0.525	3.070	0.970	73.400
85	4.250	13.943	41.730	41.762	0.267	5.150	0.639	72.300
86	4.300	14.107	36.820	36.868	0.058	7.660	0.157	84.300
87	4.350	14.271	37.100	37.137	0.067	5.910	0.180	83.600
88	4.400	14.436	22.810	22.851	0.206	6.540	0.901	89.200
89	4.450	14.600	22.880	22.923	0.297	6.830	1.296	78.000
90	4.500	14.764	42.030	42.074	0.440	7.030	1.046	68.200
91	4.550	14.928	84.380	84.520	1.006	22.400	1.190	59.700
92	4.600	15.092	84.420	84.639	0.868	35.160	1.026	68.000
93	4.650	15.256	96.950	97.127	1.197	28.340	1.232	66.700
94	4.700	15.420	110.230	110.268	1.208	6.110	1.096	74.700
95	4.750	15.584	49.760	49.959	1.187	31.910	2.376	85.400
96	4.800	15.748	19.720	19.803	0.844	13.320	4.262	74.300
97	4.850	15.912	17.110	17.295	0.475	29.560	2.747	84.800
98	4.900	16.076	19.140	19.326	0.480	29.870	2.484	64.200
99	4.950	16.240	20.270	20.384	0.671	18.300	3.292	52.300
100	5.000	16.404	18.040	18.069	0.716	4.710	3.962	58.500
101	5.050	16.568	17.260	17.288	0.600	4.450	3.471	35.800
102	5.100	16.732	26.250	26.228	0.377	-3.490	1.437	35.400
103	5.150	16.896	36.160	36.205	0.184	7.200	0.508	26.400
104	5.200	17.060	44.330	44.317	0.273	-2.080	0.616	26.700
105	5.250	17.224	40.820	40.881	0.395	9.800	0.966	19.300
106	5.300	17.388	23.050	23.072	0.491	3.510	2.128	22.700
107	5.350	17.552	18.300	18.376	0.528	12.140	2.873	23.200
108	5.400	17.716	25.030	25.053	0.461	3.690	1.840	21.200
109	5.450	17.880	19.270	19.318	0.578	7.740	2.992	20.700
110	5.500	18.044	35.290	35.328	0.710	6.040	2.010	33.500
111	5.550	18.208	19.570	19.744	0.728	27.810	3.687	36.200
112	5.600	18.372	19.120	19.313	0.735	30.910	3.806	46.900
113	5.650	18.537	30.160	30.388	0.612	36.540	2.014	60.200
114	5.700	18.701	30.710	30.746	0.555	5.800	1.805	66.100
115	5.750	18.865	60.380	60.433	0.474	8.460	0.784	62.900
116	5.800	19.029	78.920	78.968	0.586	7.750	0.742	85.700
117	5.850	19.193	74.210	74.238	0.625	4.520	0.842	77.100
118	5.900	19.357	46.110	46.147	0.687	5.900	1.489	70.800
119	5.950	19.521	32.100	32.136	0.598	5.810	1.861	59.300
120	6.000	19.685	20.270	20.303	0.564	5.310	2.778	53.300
121	6.050	19.849	15.330	15.369	0.613	6.320	3.988	41.100
122	6.100	20.013	18.150	18.195	0.543	7.210	2.984	30.400
123	6.150	20.177	13.670	13.772	0.436	16.400	3.166	25.800
124	6.200	20.341	29.490	29.533	0.714	6.870	2.418	21.200
125	6.250	20.505	43.070	43.363	0.728	46.860	1.679	20.600
126	6.300	20.669	17.630	17.675	0.780	7.240	4.413	22.600
127	6.350	20.833	12.190	12.336	0.535	23.380	4.337	25.700
128	6.400	20.997	9.110	9.171	0.395	9.730	4.307	21.300
129	6.450	21.161	11.700	11.774	0.265	11.870	2.251	20.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	8.600	8.668	0.228	10.960	2.630	14.500
131	6.550	21.489	12.060	12.115	0.273	8.800	2.253	17.200
132	6.600	21.653	13.980	14.043	0.311	10.100	2.215	16.000
133	6.650	21.817	14.290	14.355	0.425	10.480	2.961	20.700
134	6.700	21.981	14.350	14.406	0.454	9.010	3.151	21.300
135	6.750	22.145	12.540	12.604	0.549	10.270	4.356	21.500
136	6.800	22.309	10.120	10.165	0.452	7.230	4.447	31.400
137	6.850	22.473	24.760	24.791	0.546	4.990	2.202	29.100
138	6.900	22.638	21.380	21.420	0.658	6.340	3.072	46.400
139	6.950	22.802	19.730	19.832	0.791	16.330	3.989	62.000
140	7.000	22.966	12.520	12.714	0.587	31.050	4.617	70.100
141	7.050	23.130	15.380	15.589	0.497	33.440	3.188	78.500
142	7.100	23.294	23.960	24.122	0.568	25.900	2.355	77.400
143	7.150	23.458	39.040	39.190	0.745	24.060	1.901	76.600
144	7.200	23.622	38.200	38.227	0.643	4.300	1.682	53.800
145	7.250	23.786	37.580	37.610	0.742	4.780	1.973	40.900
146	7.300	23.950	24.530	24.587	0.552	9.130	2.245	33.300
147	7.350	24.114	50.190	50.283	0.546	14.950	1.086	26.900
148	7.400	24.278	36.560	36.597	0.956	5.920	2.612	36.200
149	7.450	24.442	69.900	69.989	1.363	14.280	1.947	27.600
150	7.500	24.606	39.210	39.509	1.423	47.920	3.602	34.600
151	7.550	24.770	16.270	16.311	1.256	6.600	7.700	44.700
152	7.600	24.934	15.090	15.172	0.549	13.200	3.618	58.900
153	7.650	25.098	16.540	16.577	0.440	6.000	2.654	61.100
154	7.700	25.262	18.450	18.514	0.429	10.330	2.317	73.700
155	7.750	25.426	22.510	22.606	0.562	15.310	2.486	83.500
156	7.800	25.590	18.510	18.538	0.548	4.420	2.956	75.000
157	7.850	25.754	22.300	22.367	0.488	10.790	2.182	60.700
158	7.900	25.918	21.810	21.851	0.477	6.600	2.183	56.500
159	7.950	26.082	13.270	13.313	0.399	6.920	2.997	61.300
160	8.000	26.246	17.980	18.028	0.303	7.720	1.681	47.100
161	8.050	26.410	26.180	26.233	0.241	8.530	0.919	45.700
162	8.100	26.574	34.370	34.408	0.223	6.030	0.648	52.900
163	8.150	26.739	22.550	22.594	0.138	7.050	0.611	50.900
164	8.200	26.903	13.320	13.368	0.084	7.750	0.628	46.700
165	8.250	27.067	14.220	14.268	0.124	7.760	0.869	35.100
166	8.300	27.231	16.980	17.024	0.141	7.090	0.828	26.300
167	8.350	27.395	32.430	32.474	0.152	7.090	0.468	33.500
168	8.400	27.559	47.170	47.217	0.232	7.550	0.491	24.600
169	8.450	27.723	41.760	41.805	0.302	7.200	0.722	36.300
170	8.500	27.887	26.250	26.294	0.434	7.090	1.651	37.700
171	8.550	28.051	28.510	28.552	0.531	6.710	1.860	38.700
172	8.600	28.215	57.350	57.409	1.215	9.420	2.116	51.900
173	8.650	28.379	142.090	142.126	1.265	5.770	0.890	45.300
174	8.700	28.543	153.250	153.308	1.702	9.310	1.110	51.200
175	8.750	28.707	161.300	161.365	3.110	10.440	1.927	45.900
176	8.800	28.871	145.480	145.528	3.575	7.610	2.457	50.600
177	8.850	29.035	175.820	175.827	3.080	1.170	1.752	65.600
178	8.900	29.199	104.260	104.279	3.277	3.070	3.143	79.500
179	8.950	29.363	88.160	88.209	3.125	7.770	3.543	80.100
180	9.000	29.527	61.630	61.717	2.290	13.940	3.710	86.300
181	9.050	29.691	46.760	46.854	1.686	15.080	3.598	85.900
182	9.100	29.855	28.670	28.759	1.333	14.290	4.635	69.300
183	9.150	30.019	15.030	15.028	0.831	-0.250	5.530	78.500
184	9.200	30.183	16.020	16.075	0.576	8.810	3.583	67.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	22.790	22.968	0.616	28.440	2.682	66.800
186	9.300	30.511	48.170	48.235	0.606	10.390	1.256	64.500
187	9.350	30.675	49.930	50.026	0.884	15.400	1.767	58.400
188	9.400	30.840	32.260	32.310	0.698	8.040	2.160	57.100
189	9.450	31.004	19.270	19.347	0.845	12.310	4.368	56.100
190	9.500	31.168	24.750	24.885	0.975	21.690	3.918	57.500
191	9.550	31.332	15.700	15.979	0.854	44.670	5.345	49.200
192	9.600	31.496	21.520	21.847	0.790	52.310	3.616	62.200
193	9.650	31.660	21.730	21.812	0.716	13.150	3.283	58.500
194	9.700	31.824	21.440	21.557	0.583	18.730	2.704	58.400
195	9.750	31.988	70.240	70.310	0.776	11.210	1.104	53.900
196	9.800	32.152	135.690	135.740	1.381	8.050	1.017	46.600
197	9.850	32.316	119.790	119.823	1.352	5.240	1.128	49.200
198	9.900	32.480	61.830	61.889	1.578	9.480	2.550	44.500
199	9.950	32.644	97.700	97.772	1.318	11.580	1.348	41.800
200	10.000	32.808	65.810	65.865	1.503	8.830	2.282	30.600
201	10.050	32.972	48.460	48.503	1.398	6.960	2.882	27.300
202	10.100	33.136	32.700	33.172	1.383	75.580	4.169	22.500
203	10.150	33.300	61.930	62.543	1.679	98.250	2.685	13.500
204	10.200	33.464	56.490	56.628	1.895	22.070	3.346	11.600
205	10.250	33.628	88.770	88.903	2.167	21.270	2.437	13.700
206	10.300	33.792	79.320	79.605	2.334	45.730	2.932	15.900
207	10.350	33.956	59.130	59.262	2.235	21.110	3.771	14.100
208	10.400	34.120	36.130	36.448	1.832	50.960	5.026	18.700
209	10.450	34.284	65.050	65.144	1.772	15.110	2.720	18.000
210	10.500	34.448	60.970	61.142	1.458	27.500	2.385	26.400
211	10.550	34.612	47.770	47.795	1.079	4.070	2.258	23.800
212	10.600	34.776	42.910	42.964	0.337	8.640	0.784	25.200
213	10.650	34.941	49.230	49.273	0.153	6.850	0.311	29.800
214	10.700	35.105	53.520	53.555	0.173	5.550	0.323	28.100
215	10.750	35.269	59.650	59.707	0.246	9.140	0.412	23.700
216	10.800	35.433	87.000	87.042	1.009	6.740	1.159	27.900
217	10.850	35.597	108.440	108.535	1.982	15.280	1.826	20.500
218	10.900	35.761	101.330	101.591	2.859	41.870	2.814	20.700
219	10.950	35.925	91.530	91.645	3.093	18.450	3.375	18.800
220	11.000	36.089	75.980	76.161	3.086	28.990	4.052	19.900
221	11.050	36.253	67.670	67.876	2.698	32.930	3.975	27.200
222	11.100	36.417	69.090	69.212	2.248	19.560	3.248	14.500
223	11.150	36.581	59.100	59.304	1.875	32.670	3.162	16.500
224	11.200	36.745	79.990	80.101	1.856	17.750	2.317	15.400
225	11.250	36.909	63.280	63.360	1.895	12.790	2.991	16.400
226	11.300	37.073	39.570	39.653	1.922	13.240	4.847	17.300
227	11.350	37.237	38.370	38.552	1.534	29.100	3.979	12.600
228	11.400	37.401	26.160	26.180	1.081	3.210	4.129	16.600
229	11.450	37.565	45.330	45.457	1.298	20.330	2.855	14.900
230	11.500	37.729	57.090	57.171	0.986	13.050	1.725	22.800
231	11.550	37.893	22.420	22.690	1.276	43.320	5.624	23.100
232	11.600	38.057	48.630	48.783	1.134	24.540	2.325	15.500
233	11.650	38.221	26.560	26.812	1.038	40.400	3.871	17.700
234	11.700	38.385	49.810	50.113	1.352	48.550	2.698	17.700
235	11.750	38.549	46.930	47.043	1.443	18.160	3.067	19.600
236	11.800	38.713	42.590	42.685	1.551	15.170	3.634	18.900
237	11.850	38.877	37.100	37.159	1.512	9.510	4.069	17.800
238	11.900	39.042	55.830	55.877	1.423	7.510	2.547	8.900
239	11.950	39.206	38.590	38.771	1.677	29.010	4.325	14.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	62.320	62.879	2.277	89.620	3.621	15.100
241	12.050	39.534	74.610	74.700	2.241	14.410	3.000	14.700
242	12.100	39.698	64.830	65.195	2.445	58.470	3.750	16.600
243	12.150	39.862	60.600	60.681	1.759	13.040	2.899	14.600
244	12.200	40.026	40.000	40.016	1.615	2.580	4.036	10.800
245	12.250	40.190	67.710	67.797	1.562	13.940	2.304	10.200
246	12.300	40.354	66.060	66.186	1.809	20.160	2.733	15.000
247	12.350	40.518	75.270	75.435	2.115	26.480	2.804	15.100
248	12.400	40.682	60.750	60.915	2.039	26.400	3.347	17.300
249	12.450	40.846	69.950	70.060	1.787	17.590	2.551	21.200
250	12.500	41.010	68.490	68.616	1.556	20.190	2.268	27.200
251	12.550	41.174	42.200	42.302	1.378	16.290	3.258	45.900
252	12.600	41.338	21.560	21.637	1.235	12.290	5.708	47.000
253	12.650	41.502	38.650	38.847	0.972	31.600	2.502	53.100
254	12.700	41.666	42.090	42.152	1.084	9.950	2.572	58.100
255	12.750	41.830	48.580	48.639	1.212	9.450	2.492	52.400
256	12.800	41.994	44.290	44.291	1.291	0.150	2.915	47.400
257	12.850	42.158	21.100	21.129	0.939	4.600	4.444	41.400
258	12.900	42.322	18.540	18.568	0.882	4.540	4.750	24.300
259	12.950	42.486	37.060	37.131	0.916	11.340	2.467	19.300
260	13.000	42.650	26.260	26.307	0.923	7.460	3.509	19.700
261	13.050	42.814	15.210	15.325	0.844	18.500	5.507	15.600
262	13.100	42.978	18.850	19.099	0.728	39.820	3.812	18.300
263	13.150	43.143	26.840	26.930	0.796	14.490	2.956	18.200
264	13.200	43.307	25.200	25.309	0.772	17.510	3.050	19.700
265	13.250	43.471	80.850	80.954	1.239	16.710	1.530	20.300
266	13.300	43.635	58.490	58.573	1.252	13.370	2.137	26.000
267	13.350	43.799	37.720	37.841	1.348	19.390	3.562	32.000
268	13.400	43.963	30.650	30.744	0.921	15.040	2.996	32.800
269	13.450	44.127	31.030	31.166	0.742	21.770	2.381	27.200
270	13.500	44.291	33.390	33.605	1.070	34.390	3.184	28.500
271	13.550	44.455	48.150	48.315	1.250	26.390	2.587	32.200
272	13.600	44.619	58.560	58.673	1.296	18.040	2.209	32.300
273	13.650	44.783	93.290	93.394	1.843	16.680	1.973	41.000
274	13.700	44.947	133.410	133.516	2.019	16.900	1.512	42.000
275	13.750	45.111	128.170	128.220	2.216	8.040	1.728	46.900
276	13.800	45.275	143.440	143.546	2.443	17.020	1.702	39.300
277	13.850	45.439	113.560	113.609	3.189	7.780	2.807	40.300
278	13.900	45.603	69.570	69.604	3.097	5.420	4.449	0.000
279	13.950	45.767	35.890	36.036	2.267	23.430	6.291	0.000
280	14.000	45.931	30.160	30.639	1.753	76.680	5.722	0.000
281	14.050	46.095	36.930	37.045	2.104	18.460	5.680	0.000
282	14.100	46.259	57.700	57.799	3.020	15.920	5.225	0.000
283	14.150	46.423	123.020	123.490	4.051	75.240	3.280	0.000
284	14.200	46.587	141.200	142.175	4.987	156.200	3.508	0.000
285	14.250	46.751	138.040	139.274	5.552	197.630	3.986	0.000
286	14.300	46.915	139.970	140.316	5.522	55.450	3.935	0.000
287	14.350	47.079	131.720	132.072	5.429	56.330	4.111	0.000
288	14.400	47.244	143.860	144.467	4.997	97.250	3.459	0.000
289	14.450	47.408	148.810	151.028	4.279	355.370	2.833	0.000
290	14.500	47.572	114.880	115.025	3.518	23.270	3.058	0.000
291	14.550	47.736	184.490	184.588	3.379	15.720	1.831	0.000
292	14.600	47.900	317.960	318.095	0.000	21.620	0.000	0.000
293	14.650	48.064	335.770	335.870	0.000	16.070	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221536
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-4-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-14-2013
CPT Time:	14:06
CPT File:	13-53075_GP4-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722062.370
Northing / Lat:	4294273.576
Elevation:	144.481
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.460	0.459	0.007	-0.110	1.524	29.100
2	0.100	0.328	30.890	30.894	0.013	0.610	0.042	23.300
3	0.150	0.492	59.630	59.635	0.293	0.840	0.491	31.200
4	0.200	0.656	86.050	86.055	0.726	0.810	0.844	19.800
5	0.250	0.820	82.930	82.933	0.694	0.550	0.837	22.900
6	0.300	0.984	78.090	78.096	0.643	1.020	0.823	14.000
7	0.350	1.148	76.190	76.200	0.600	1.670	0.787	71.200
8	0.400	1.312	39.440	39.444	0.476	0.610	1.207	51.500
9	0.450	1.476	24.960	24.958	0.356	-0.380	1.426	7.000
10	0.500	1.640	26.180	26.178	0.299	-0.280	1.142	5.200
11	0.550	1.804	43.910	43.912	0.319	0.390	0.726	35.300
12	0.600	1.968	58.060	58.064	0.424	0.610	0.730	93.500
13	0.650	2.133	77.540	77.547	0.568	1.190	0.732	90.400
14	0.700	2.297	95.720	95.730	0.771	1.570	0.805	105.900
15	0.750	2.461	105.880	105.894	1.095	2.180	1.034	82.100
16	0.800	2.625	104.460	104.474	1.068	2.200	1.022	77.400
17	0.850	2.789	96.420	96.433	1.655	2.090	1.716	72.000
18	0.900	2.953	91.070	91.072	1.543	0.390	1.694	61.500
19	0.950	3.117	56.910	56.914	1.735	0.630	3.048	68.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	39.600	39.619	1.233	2.990	3.112	63.700
21	1.050	3.445	29.560	29.585	0.843	4.000	2.849	78.800
22	1.100	3.609	52.580	52.603	1.193	3.750	2.268	74.400
23	1.150	3.773	42.130	42.103	1.122	-4.290	2.665	76.500
24	1.200	3.937	35.500	35.468	1.043	-5.170	2.941	70.400
25	1.250	4.101	32.830	32.791	0.653	-6.180	1.991	69.200
26	1.300	4.265	31.810	31.760	0.460	-8.060	1.448	71.400
27	1.350	4.429	21.640	21.644	0.465	0.570	2.148	32.200
28	1.400	4.593	15.270	15.276	0.350	0.900	2.291	1.700
29	1.450	4.757	13.490	13.502	0.409	1.950	3.029	2.100
30	1.500	4.921	23.570	23.577	0.509	1.090	2.159	44.200
31	1.550	5.085	18.810	18.818	0.680	1.310	3.614	52.200
32	1.600	5.249	18.490	18.510	0.586	3.130	3.166	60.300
33	1.650	5.413	20.300	20.325	0.512	3.930	2.519	75.300
34	1.700	5.577	16.770	16.774	0.610	0.620	3.637	77.600
35	1.750	5.741	23.360	23.352	0.516	-1.350	2.210	84.700
36	1.800	5.905	31.880	31.868	0.640	-1.960	2.008	92.900
37	1.850	6.069	29.140	29.112	0.962	-4.560	3.305	93.200
38	1.900	6.234	44.340	44.310	0.975	-4.810	2.200	80.600
39	1.950	6.398	78.570	78.538	1.723	-5.140	2.194	75.800
40	2.000	6.562	102.840	102.780	2.174	-9.590	2.115	71.500
41	2.050	6.726	93.040	92.972	2.520	-10.880	2.710	72.100
42	2.100	6.890	75.620	75.555	2.351	-10.450	3.112	80.800
43	2.150	7.054	76.410	76.344	1.879	-10.560	2.461	85.100
44	2.200	7.218	75.350	75.281	1.388	-10.980	1.844	92.600
45	2.250	7.382	58.950	58.875	1.059	-12.010	1.799	87.600
46	2.300	7.546	43.650	43.572	0.794	-12.440	1.822	71.900
47	2.350	7.710	28.960	28.946	0.490	-2.200	1.693	64.900
48	2.400	7.874	21.390	21.383	0.423	-1.110	1.978	61.000
49	2.450	8.038	18.370	18.362	0.234	-1.210	1.274	43.200
50	2.500	8.202	18.000	18.001	0.267	0.130	1.483	32.100
51	2.550	8.366	17.470	17.463	0.274	-1.100	1.569	26.800
52	2.600	8.530	18.930	18.921	0.363	-1.380	1.918	22.400
53	2.650	8.694	36.100	36.092	0.535	-1.230	1.482	22.000
54	2.700	8.858	39.290	39.293	0.364	0.460	0.926	11.400
55	2.750	9.022	39.240	39.242	0.815	0.390	2.077	3.600
56	2.800	9.186	73.330	73.336	0.755	0.990	1.030	20.300
57	2.850	9.350	67.040	67.046	0.830	1.010	1.238	20.600
58	2.900	9.514	46.320	46.327	0.780	1.070	1.684	18.300
59	2.950	9.678	16.710	16.711	0.518	0.190	3.100	14.800
60	3.000	9.842	11.950	11.954	0.403	0.590	3.371	22.300
61	3.050	10.006	18.550	18.552	0.320	0.280	1.725	14.200
62	3.100	10.170	20.930	20.938	0.265	1.210	1.266	16.600
63	3.150	10.335	6.700	6.705	0.151	0.730	2.252	21.700
64	3.200	10.499	11.380	11.386	0.159	0.960	1.396	33.100
65	3.250	10.663	37.740	37.749	0.198	1.470	0.525	26.100
66	3.300	10.827	46.690	46.697	0.481	1.150	1.030	41.700
67	3.350	10.991	30.450	30.463	0.603	2.020	1.979	56.900
68	3.400	11.155	14.330	14.350	0.655	3.230	4.564	56.100
69	3.450	11.319	19.310	19.360	0.476	8.060	2.459	32.900
70	3.500	11.483	15.630	15.677	0.412	7.490	2.628	3.500
71	3.550	11.647	14.110	14.137	0.367	4.300	2.596	5.900
72	3.600	11.811	11.440	11.413	0.366	-4.310	3.207	1.800
73	3.650	11.975	10.970	10.941	0.313	-4.570	2.861	3.500
74	3.700	12.139	6.780	6.756	0.184	-3.880	2.724	2.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	8.140	8.117	0.151	-3.740	1.860	33.300
76	3.800	12.467	10.830	10.839	0.212	1.440	1.956	29.700
77	3.850	12.631	13.450	13.458	0.257	1.350	1.910	42.000
78	3.900	12.795	22.600	22.609	0.469	1.370	2.074	48.300
79	3.950	12.959	21.590	21.602	0.553	1.930	2.560	53.600
80	4.000	13.123	16.610	16.629	0.460	3.070	2.766	60.500
81	4.050	13.287	6.950	6.976	0.327	4.240	4.687	73.100
82	4.100	13.451	6.780	6.809	0.212	4.620	3.114	68.300
83	4.150	13.615	7.890	7.919	0.175	4.660	2.210	62.100
84	4.200	13.779	6.110	6.137	0.158	4.390	2.574	70.000
85	4.250	13.943	11.250	11.274	0.163	3.820	1.446	52.400
86	4.300	14.107	23.540	23.563	0.497	3.690	2.109	53.000
87	4.350	14.271	55.460	55.484	0.756	3.870	1.363	47.000
88	4.400	14.436	24.370	24.398	0.783	4.410	3.209	59.000
89	4.450	14.600	15.590	15.626	0.478	5.740	3.059	74.600
90	4.500	14.764	20.070	20.104	0.366	5.380	1.821	69.000
91	4.550	14.928	34.770	34.803	0.603	5.280	1.733	64.800
92	4.600	15.092	47.160	47.193	0.997	5.280	2.113	71.800
93	4.650	15.256	65.930	65.959	1.134	4.610	1.719	56.700
94	4.700	15.420	57.140	57.154	1.155	2.260	2.021	53.700
95	4.750	15.584	87.500	87.511	1.317	1.760	1.505	28.600
96	4.800	15.748	50.020	50.028	1.237	1.320	2.473	14.000
97	4.850	15.912	40.780	40.810	1.320	4.790	3.235	26.000
98	4.900	16.076	42.790	42.829	0.524	6.180	1.223	17.100
99	4.950	16.240	46.750	46.783	0.486	5.240	1.039	20.500
100	5.000	16.404	22.220	22.248	0.392	4.520	1.762	18.300
101	5.050	16.568	13.620	13.653	0.338	5.310	2.476	21.300
102	5.100	16.732	15.880	15.914	0.244	5.380	1.533	16.200
103	5.150	16.896	23.710	23.742	0.185	5.140	0.779	18.000
104	5.200	17.060	27.290	27.322	0.212	5.170	0.776	20.900
105	5.250	17.224	68.120	68.151	0.575	5.000	0.844	21.300
106	5.300	17.388	61.430	61.498	0.733	10.950	1.192	24.200
107	5.350	17.552	40.760	40.826	1.058	10.550	2.591	40.900
108	5.400	17.716	92.870	92.926	0.928	9.040	0.999	45.700
109	5.450	17.880	41.800	41.857	2.409	9.120	5.755	15.400
110	5.500	18.044	37.880	37.939	2.487	9.510	6.555	33.200
111	5.550	18.208	131.900	131.960	2.761	9.570	2.092	47.100
112	5.600	18.372	116.710	116.768	2.249	9.350	1.926	42.400
113	5.650	18.537	75.530	75.579	2.384	7.910	3.154	37.300
114	5.700	18.701	70.530	70.583	2.590	8.460	3.669	29.000
115	5.750	18.865	70.310	70.391	0.878	12.930	1.247	40.800
116	5.800	19.029	42.230	42.293	0.733	10.140	1.733	47.400
117	5.850	19.193	62.000	62.069	0.928	11.050	1.495	42.500
118	5.900	19.357	76.820	76.882	1.046	9.900	1.361	32.900
119	5.950	19.521	35.890	35.955	1.280	10.480	3.560	19.900
120	6.000	19.685	28.080	28.143	1.137	10.080	4.040	19.600
121	6.050	19.849	20.570	20.642	0.786	11.500	3.808	23.800
122	6.100	20.013	14.240	14.308	0.572	10.950	3.998	25.000
123	6.150	20.177	10.370	10.433	0.573	10.160	5.492	24.500
124	6.200	20.341	59.060	59.119	1.503	9.520	2.542	31.400
125	6.250	20.505	156.290	156.352	3.468	9.930	2.218	26.200
126	6.300	20.669	180.450	180.518	4.658	10.860	2.580	26.800
127	6.350	20.833	114.280	114.386	3.725	16.900	3.257	29.700
128	6.400	20.997	103.790	103.878	2.759	14.050	2.656	37.100
129	6.450	21.161	97.770	97.863	1.795	14.960	1.834	54.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	36.400	36.506	1.086	16.960	2.975	75.900
131	6.550	21.489	32.610	32.725	1.026	18.430	3.135	82.600
132	6.600	21.653	33.320	33.437	0.985	18.810	2.946	7.100
133	6.650	21.817	24.000	24.118	0.989	18.910	4.101	5.600
134	6.700	21.981	19.730	19.849	0.982	19.090	4.947	8.000
135	6.750	22.145	26.660	26.781	0.940	19.320	3.510	4.600
136	6.800	22.309	55.310	55.435	1.313	20.040	2.369	74.200
137	6.850	22.473	78.920	79.043	1.407	19.650	1.780	67.200
138	6.900	22.638	101.060	101.179	1.837	19.010	1.816	75.900
139	6.950	22.802	98.660	98.748	2.341	14.110	2.371	56.400
140	7.000	22.966	58.870	58.962	1.916	14.660	3.250	54.800
141	7.050	23.130	63.880	63.964	1.138	13.520	1.779	56.400
142	7.100	23.294	29.770	29.841	0.833	11.310	2.791	60.700
143	7.150	23.458	18.750	18.811	0.662	9.750	3.519	60.300
144	7.200	23.622	91.500	91.561	1.002	9.830	1.094	48.400
145	7.250	23.786	164.670	164.719	1.596	7.770	0.969	49.500
146	7.300	23.950	154.770	154.827	2.333	9.100	1.507	48.000
147	7.350	24.114	192.520	192.575	2.426	8.830	1.260	51.500
148	7.400	24.278	135.980	136.032	2.507	8.300	1.843	58.200
149	7.450	24.442	82.280	82.337	2.521	9.120	3.062	53.300
150	7.500	24.606	46.700	46.766	1.970	10.540	4.212	58.200
151	7.550	24.770	94.960	95.030	1.654	11.160	1.741	51.700
152	7.600	24.934	144.830	144.881	1.385	8.170	0.956	57.500
153	7.650	25.098	111.300	111.345	1.036	7.170	0.930	44.900
154	7.700	25.262	95.470	95.506	1.015	5.700	1.063	45.700
155	7.750	25.426	69.670	69.696	1.272	4.190	1.825	33.700
156	7.800	25.590	67.700	67.735	1.206	5.550	1.780	34.400
157	7.850	25.754	58.160	58.199	1.681	6.260	2.888	30.000
158	7.900	25.918	52.960	53.004	1.645	7.110	3.104	30.200
159	7.950	26.082	43.390	43.444	1.503	8.650	3.460	37.500
160	8.000	26.246	36.360	36.403	1.351	6.920	3.711	45.300
161	8.050	26.410	29.770	29.839	1.264	11.080	4.236	49.000
162	8.100	26.574	29.000	29.077	1.089	12.270	3.745	56.400
163	8.150	26.739	19.760	19.827	1.084	10.660	5.467	61.100
164	8.200	26.903	15.880	15.944	0.610	10.290	3.826	88.200
165	8.250	27.067	19.640	19.690	0.625	8.010	3.174	109.800
166	8.300	27.231	20.700	20.748	0.440	7.690	2.121	148.300
167	8.350	27.395	11.300	11.365	0.489	10.410	4.303	189.500
168	8.400	27.559	33.340	33.404	0.396	10.180	1.186	337.100
169	8.450	27.723	50.720	50.786	0.454	10.610	0.894	498.200
170	8.500	27.887	35.770	35.842	0.607	11.600	1.694	858.600
171	8.550	28.051	30.420	30.486	0.788	10.540	2.585	1630.800
172	8.600	28.215	39.790	39.857	1.001	10.750	2.511	2863.900
173	8.650	28.379	39.850	39.920	1.010	11.230	2.530	4802.300
174	8.700	28.543	35.680	35.751	1.087	11.310	3.041	6553.400
175	8.750	28.707	26.910	26.976	0.919	10.630	3.407	7537.900
176	8.800	28.871	19.260	19.321	0.710	9.770	3.675	8136.600
177	8.850	29.035	15.640	15.705	0.471	10.420	2.999	7915.500
178	8.900	29.199	13.170	13.237	0.520	10.720	3.928	6899.800
179	8.950	29.363	15.970	16.035	0.492	10.440	3.068	5433.200
180	9.000	29.527	30.550	30.614	0.647	10.180	2.113	3861.500
181	9.050	29.691	26.830	26.891	0.709	9.710	2.637	2744.300
182	9.100	29.855	19.810	19.868	0.753	9.270	3.790	1869.000
183	9.150	30.019	23.140	23.197	0.584	9.110	2.518	1410.300
184	9.200	30.183	23.890	23.943	0.483	8.470	2.017	1048.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	36.040	36.091	1.027	8.120	2.846	757.000
186	9.300	30.511	21.740	21.791	0.783	8.150	3.593	591.000
187	9.350	30.675	59.140	59.185	1.018	7.230	1.720	387.200
188	9.400	30.840	69.470	69.513	0.824	6.870	1.185	266.500
189	9.450	31.004	42.220	42.269	0.861	7.910	2.037	236.800
190	9.500	31.168	31.530	31.570	0.611	6.460	1.935	185.900
191	9.550	31.332	21.800	21.838	0.519	6.150	2.377	137.100
192	9.600	31.496	22.230	22.272	0.467	6.720	2.097	104.100
193	9.650	31.660	21.600	21.643	0.486	6.880	2.246	80.700
194	9.700	31.824	36.490	36.537	0.644	7.540	1.763	67.300
195	9.750	31.988	35.460	35.508	0.735	7.760	2.070	48.400
196	9.800	32.152	26.790	26.833	1.026	6.830	3.824	5.700
197	9.850	32.316	52.150	52.204	1.065	8.570	2.040	3.000
198	9.900	32.480	20.360	20.417	0.940	9.150	4.604	0.900
199	9.950	32.644	19.460	19.519	0.913	9.430	4.678	2.300
200	10.000	32.808	22.380	22.436	0.743	8.910	3.312	0.900
201	10.050	32.972	19.040	19.111	0.612	11.420	3.202	1.900
202	10.100	33.136	87.060	87.132	0.422	11.500	0.484	0.900
203	10.150	33.300	186.730	186.792	1.832	9.930	0.981	0.900
204	10.200	33.464	90.240	90.281	1.003	6.640	1.111	1.000
205	10.250	33.628	64.410	64.439	1.126	4.570	1.747	0.000
206	10.300	33.792	93.070	93.134	2.402	10.220	2.579	0.000
207	10.350	33.956	120.940	121.034	2.790	15.000	2.305	2.500
208	10.400	34.120	78.610	78.791	2.483	28.940	3.151	0.000
209	10.450	34.284	127.180	127.327	3.181	23.550	2.498	0.700
210	10.500	34.448	101.900	102.050	2.349	23.970	2.302	1.600
211	10.550	34.612	50.710	50.826	2.232	18.580	4.391	0.400
212	10.600	34.776	50.620	50.719	1.642	15.840	3.237	1.700
213	10.650	34.941	37.700	37.805	1.389	16.830	3.674	0.900
214	10.700	35.105	37.250	37.337	1.092	13.880	2.925	0.900
215	10.750	35.269	18.030	18.107	0.688	12.310	3.800	3.600
216	10.800	35.433	7.970	8.064	0.466	15.030	5.779	2.400
217	10.850	35.597	9.950	10.042	0.292	14.760	2.908	1.800
218	10.900	35.761	9.250	9.351	0.145	16.180	1.551	2.300
219	10.950	35.925	16.920	17.015	0.150	15.270	0.882	2.000
220	11.000	36.089	19.870	19.976	0.315	17.040	1.577	2.000
221	11.050	36.253	16.610	16.716	0.392	16.950	2.345	1.900
222	11.100	36.417	28.980	29.090	0.825	17.700	2.836	1.000
223	11.150	36.581	46.660	46.772	1.214	17.920	2.596	0.500
224	11.200	36.745	48.500	48.630	1.594	20.770	3.278	1.200
225	11.250	36.909	58.180	58.322	2.087	22.720	3.578	3.000
226	11.300	37.073	77.000	77.142	2.172	22.680	2.816	1.200
227	11.350	37.237	118.260	118.384	1.970	19.880	1.664	0.600
228	11.400	37.401	121.050	121.198	2.334	23.630	1.926	0.000
229	11.450	37.565	93.280	93.429	2.444	23.810	2.616	27.300
230	11.500	37.729	57.740	57.886	2.035	23.410	3.516	25.600
231	11.550	37.893	57.700	57.831	1.282	20.920	2.217	23.400
232	11.600	38.057	88.310	88.410	0.965	15.970	1.092	32.300
233	11.650	38.221	60.810	60.921	1.282	17.720	2.104	38.300
234	11.700	38.385	66.020	66.131	1.084	17.830	1.639	37.800
235	11.750	38.549	106.420	106.536	1.042	18.660	0.978	48.500
236	11.800	38.713	106.230	106.330	0.878	16.010	0.826	16.200
237	11.850	38.877	87.480	87.573	0.739	14.880	0.844	51.300
238	11.900	39.042	76.190	76.285	1.037	15.230	1.359	40.000
239	11.950	39.206	41.060	41.144	0.897	13.390	2.180	35.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	39.410	39.485	0.779	12.040	1.973	26.800
241	12.050	39.534	33.510	33.588	1.020	12.520	3.037	22.400
242	12.100	39.698	42.450	42.538	1.337	14.120	3.143	16.000
243	12.150	39.862	49.570	49.661	1.464	14.610	2.948	10.300
244	12.200	40.026	66.860	66.977	2.799	18.750	4.179	16.000
245	12.250	40.190	97.730	97.829	2.917	15.880	2.982	14.400
246	12.300	40.354	46.410	46.539	2.950	20.620	6.339	22.600
247	12.350	40.518	61.350	61.485	2.297	21.580	3.736	15.700
248	12.400	40.682	63.100	63.238	2.035	22.160	3.218	25.200
249	12.450	40.846	63.220	63.360	2.093	22.370	3.303	25.700
250	12.500	41.010	54.490	54.626	1.602	21.860	2.933	26.400
251	12.550	41.174	64.320	64.455	1.721	21.660	2.670	30.200
252	12.600	41.338	77.680	77.818	2.000	22.090	2.570	16.600
253	12.650	41.502	62.210	62.351	1.964	22.530	3.150	16.900
254	12.700	41.666	42.780	42.916	1.838	21.810	4.283	15.000
255	12.750	41.830	54.250	54.365	1.183	18.430	2.176	1.200
256	12.800	41.994	66.580	66.685	1.445	16.770	2.167	13.400
257	12.850	42.158	67.390	67.499	1.495	17.420	2.215	13.400
258	12.900	42.322	61.060	61.187	1.489	20.310	2.434	17.300
259	12.950	42.486	50.860	50.976	1.516	18.640	2.974	12.300
260	13.000	42.650	83.650	83.748	1.738	15.730	2.075	12.600
261	13.050	42.814	54.150	54.281	1.872	21.020	3.449	10.400
262	13.100	42.978	41.460	41.580	1.948	19.160	4.685	15.200
263	13.150	43.143	76.860	76.973	1.646	18.030	2.138	18.300
264	13.200	43.307	63.420	63.535	1.354	18.430	2.131	11.700
265	13.250	43.471	36.140	36.241	1.036	16.100	2.859	12.900
266	13.300	43.635	35.660	35.762	1.096	16.310	3.065	12.900
267	13.350	43.799	51.390	51.478	1.429	14.080	2.776	10.600
268	13.400	43.963	38.910	39.008	1.062	15.650	2.723	12.000
269	13.450	44.127	70.740	70.825	1.211	13.660	1.710	13.600
270	13.500	44.291	29.700	29.788	0.790	14.150	2.652	13.600
271	13.550	44.455	38.460	38.537	0.732	12.350	1.899	13.600
272	13.600	44.619	56.450	56.508	0.234	9.240	0.414	18.900
273	13.650	44.783	65.250	65.313	0.094	10.100	0.144	18.600
274	13.700	44.947	54.730	54.798	0.137	10.900	0.250	12.400
275	13.750	45.111	51.820	51.906	0.529	13.800	1.019	18.900
276	13.800	45.275	54.610	54.680	0.540	11.270	0.988	24.800
277	13.850	45.439	53.020	53.111	0.487	14.500	0.917	33.000
278	13.900	45.603	56.690	56.762	0.835	11.560	1.471	37.500
279	13.950	45.767	72.180	72.257	0.742	12.360	1.027	56.100
280	14.000	45.931	80.480	80.553	0.774	11.760	0.961	46.400
281	14.050	46.095	98.890	98.969	1.117	12.720	1.129	47.100
282	14.100	46.259	105.750	105.846	1.977	15.380	1.868	42.400
283	14.150	46.423	70.520	70.630	1.409	17.610	1.995	53.500
284	14.200	46.587	58.800	58.885	1.942	13.560	3.298	42.800
285	14.250	46.751	73.480	73.546	1.919	10.560	2.609	50.200
286	14.300	46.915	50.820	50.894	2.214	11.860	4.350	33.500
287	14.350	47.079	44.170	44.234	1.756	10.230	3.970	38.000
288	14.400	47.244	43.710	43.790	1.321	12.770	3.017	35.500
289	14.450	47.408	95.870	95.958	2.203	14.020	2.296	42.000
290	14.500	47.572	97.460	97.535	2.222	12.070	2.278	39.500
291	14.550	47.736	87.910	87.979	1.852	10.980	2.105	40.800
292	14.600	47.900	66.680	66.747	1.646	10.710	2.466	41.200
293	14.650	48.064	56.630	56.703	1.352	11.690	2.384	35.900
294	14.700	48.228	36.820	36.892	1.093	11.550	2.963	38.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	33.160	33.235	0.873	12.070	2.627	30.000
296	14.800	48.556	27.130	27.201	0.760	11.390	2.794	34.500
297	14.850	48.720	23.000	23.072	0.724	11.490	3.138	39.500
298	14.900	48.884	18.930	19.002	0.767	11.610	4.036	31.500
299	14.950	49.048	23.540	23.614	0.641	11.900	2.714	34.900
300	15.000	49.212	43.810	43.878	0.686	10.850	1.563	37.200
301	15.050	49.376	70.910	70.980	0.675	11.240	0.951	48.000
302	15.100	49.540	63.830	63.899	1.165	11.100	1.823	49.100
303	15.150	49.704	67.970	68.038	0.915	10.920	1.345	51.800
304	15.200	49.868	73.320	73.382	1.557	9.880	2.122	55.300
305	15.250	50.032	58.420	58.482	1.067	9.890	1.825	50.700
306	15.300	50.196	81.510	81.564	1.130	8.600	1.385	47.200
307	15.350	50.360	62.150	62.186	1.337	5.790	2.150	40.000
308	15.400	50.524	40.900	40.912	1.295	1.990	3.165	28.400
309	15.450	50.688	28.660	28.668	1.236	1.230	4.311	0.000
310	15.500	50.852	36.800	36.808	1.356	1.260	3.684	0.000
311	15.550	51.016	33.570	33.584	1.299	2.260	3.868	0.000
312	15.600	51.180	32.590	32.612	1.240	3.600	3.802	0.000
313	15.650	51.345	39.380	39.410	1.244	4.800	3.157	0.000
314	15.700	51.509	33.630	33.670	1.502	6.380	4.461	0.000
315	15.750	51.673	46.280	46.321	2.257	6.610	4.872	0.000
316	15.800	51.837	137.730	137.777	2.031	7.500	1.474	0.000
317	15.850	52.001	87.190	87.250	2.760	9.580	3.163	0.000
318	15.900	52.165	132.880	132.931	2.754	8.180	2.072	0.000
319	15.950	52.329	71.730	71.775	2.008	7.160	2.798	0.000
320	16.000	52.493	72.130	72.178	1.789	7.700	2.479	0.000
321	16.050	52.657	43.130	43.174	1.174	7.100	2.719	0.000
322	16.100	52.821	54.630	54.683	0.771	8.420	1.410	0.000
323	16.150	52.985	113.290	113.344	0.000	8.680	0.000	0.000
324	16.200	53.149	199.610	199.665	0.000	8.840	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221538
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-4-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-14-2013
CPT Time:	15:08
CPT File:	13-53075_GP4-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722072.117
Northing / Lat:	4294255.328
Elevation:	145.898
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.020	0.020	0.000	-0.070	0.000	22.600
2	0.100	0.328	10.230	10.232	0.027	0.260	0.264	27.900
3	0.150	0.492	34.150	34.153	0.089	0.420	0.261	29.400
4	0.200	0.656	37.820	37.820	0.417	0.040	1.103	47.800
5	0.250	0.820	54.740	54.743	0.550	0.440	1.005	50.900
6	0.300	0.984	53.840	53.850	0.675	1.560	1.253	56.900
7	0.350	1.148	58.160	58.175	2.113	2.350	3.632	62.200
8	0.400	1.312	111.010	111.017	1.428	1.100	1.286	64.300
9	0.450	1.476	164.060	164.075	1.286	2.390	0.784	71.800
10	0.500	1.640	134.940	134.951	1.293	1.810	0.958	73.200
11	0.550	1.804	69.600	69.607	0.928	1.120	1.333	84.900
12	0.600	1.968	52.920	52.923	0.712	0.470	1.345	94.800
13	0.650	2.133	40.550	40.551	0.533	0.130	1.314	91.100
14	0.700	2.297	35.340	35.341	0.571	0.100	1.616	90.600
15	0.750	2.461	29.660	29.660	0.740	0.050	2.495	94.200
16	0.800	2.625	27.290	27.291	0.864	0.200	3.166	85.500
17	0.850	2.789	27.240	27.241	0.861	0.180	3.161	85.500
18	0.900	2.953	25.520	25.525	0.811	0.830	3.177	96.900
19	0.950	3.117	28.150	28.157	0.719	1.140	2.554	103.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	32.230	32.239	0.716	1.370	2.221	96.800
21	1.050	3.445	33.130	33.134	0.697	0.570	2.104	83.900
22	1.100	3.609	30.780	30.779	0.688	-0.160	2.235	81.800
23	1.150	3.773	29.860	29.854	0.532	-0.990	1.782	74.100
24	1.200	3.937	31.590	31.585	0.659	-0.750	2.086	65.000
25	1.250	4.101	35.830	35.823	0.902	-1.140	2.518	60.600
26	1.300	4.265	46.500	46.493	1.252	-1.130	2.693	77.700
27	1.350	4.429	50.680	50.654	1.568	-4.110	3.095	65.100
28	1.400	4.593	57.230	57.199	1.798	-5.030	3.143	71.100
29	1.450	4.757	49.300	49.271	1.284	-4.580	2.606	53.600
30	1.500	4.921	48.960	48.916	1.736	-7.060	3.549	67.900
31	1.550	5.085	53.330	53.277	1.325	-8.410	2.487	57.700
32	1.600	5.249	51.950	51.894	1.181	-8.940	2.276	34.800
33	1.650	5.413	36.660	36.668	0.814	1.250	2.220	30.600
34	1.700	5.577	13.990	14.006	0.671	2.620	4.791	35.900
35	1.750	5.741	16.190	16.215	0.434	3.980	2.677	31.000
36	1.800	5.905	40.990	41.014	0.199	3.860	0.485	31.500
37	1.850	6.069	74.000	74.015	1.289	2.470	1.742	29.500
38	1.900	6.234	106.800	106.822	1.263	3.490	1.182	24.000
39	1.950	6.398	76.980	76.983	1.517	0.530	1.971	21.700
40	2.000	6.562	78.530	78.525	1.439	-0.790	1.833	25.900
41	2.050	6.726	49.850	49.847	1.027	-0.470	2.060	26.800
42	2.100	6.890	41.900	41.889	0.886	-1.700	2.115	25.300
43	2.150	7.054	22.260	22.252	0.999	-1.310	4.490	20.600
44	2.200	7.218	14.280	14.285	0.447	0.870	3.129	22.400
45	2.250	7.382	35.790	35.815	0.442	4.000	1.234	18.200
46	2.300	7.546	129.720	129.735	1.067	2.430	0.822	10.800
47	2.350	7.710	97.920	97.932	1.480	1.980	1.511	12.100
48	2.400	7.874	29.360	29.377	1.545	2.670	5.259	13.200
49	2.450	8.038	24.980	24.988	0.976	1.290	3.906	12.100
50	2.500	8.202	26.940	26.951	0.708	1.800	2.627	19.800
51	2.550	8.366	12.190	12.202	0.410	1.910	3.360	12.000
52	2.600	8.530	14.570	14.579	0.377	1.410	2.586	20.900
53	2.650	8.694	21.680	21.689	0.267	1.440	1.231	16.000
54	2.700	8.858	35.080	35.088	0.502	1.320	1.431	21.800
55	2.750	9.022	54.550	54.560	0.803	1.620	1.472	18.200
56	2.800	9.186	29.910	29.930	1.002	3.150	3.348	21.900
57	2.850	9.350	29.230	29.238	1.032	1.350	3.530	24.300
58	2.900	9.514	29.610	29.622	0.977	1.970	3.298	26.400
59	2.950	9.678	15.870	15.885	0.747	2.420	4.703	33.800
60	3.000	9.842	17.380	17.411	0.655	4.960	3.762	34.700
61	3.050	10.006	37.270	37.286	0.702	2.540	1.883	32.600
62	3.100	10.170	66.660	66.671	0.905	1.840	1.357	26.600
63	3.150	10.335	62.030	62.047	1.122	2.690	1.808	41.200
64	3.200	10.499	48.720	48.735	1.168	2.460	2.397	36.200
65	3.250	10.663	33.470	33.487	0.990	2.680	2.956	42.300
66	3.300	10.827	37.750	37.781	0.939	4.930	2.485	60.500
67	3.350	10.991	35.150	35.177	0.822	4.400	2.337	73.300
68	3.400	11.155	17.290	17.350	0.793	9.590	4.571	81.600
69	3.450	11.319	45.280	45.350	0.778	11.280	1.716	77.400
70	3.500	11.483	62.230	62.274	1.077	7.070	1.729	86.600
71	3.550	11.647	86.700	86.728	1.194	4.410	1.377	86.500
72	3.600	11.811	61.060	61.067	1.611	1.080	2.638	75.600
73	3.650	11.975	41.510	41.505	2.113	-0.770	5.091	70.500
74	3.700	12.139	38.800	38.789	1.467	-1.830	3.782	89.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	35.970	35.953	1.211	-2.780	3.368	90.200
76	3.800	12.467	33.450	33.434	0.968	-2.580	2.895	83.800
77	3.850	12.631	37.860	37.851	1.044	-1.520	2.758	81.300
78	3.900	12.795	30.060	30.048	0.871	-1.930	2.899	68.500
79	3.950	12.959	54.270	54.259	0.881	-1.730	1.624	80.800
80	4.000	13.123	73.770	73.764	0.977	-0.910	1.324	71.300
81	4.050	13.287	42.660	42.657	1.074	-0.490	2.518	61.700
82	4.100	13.451	22.540	22.536	0.877	-0.600	3.892	59.000
83	4.150	13.615	13.210	13.204	0.490	-0.950	3.711	51.300
84	4.200	13.779	11.400	11.390	0.347	-1.550	3.046	35.000
85	4.250	13.943	13.500	13.501	0.439	0.120	3.252	42.200
86	4.300	14.107	18.880	18.884	0.500	0.590	2.648	20.400
87	4.350	14.271	29.780	29.777	0.687	-0.410	2.307	21.400
88	4.400	14.436	72.080	72.077	0.693	-0.410	0.961	12.700
89	4.450	14.600	105.150	105.152	1.071	0.300	1.019	16.900
90	4.500	14.764	142.160	142.161	1.548	0.150	1.089	12.600
91	4.550	14.928	62.350	62.358	1.688	1.280	2.707	17.500
92	4.600	15.092	53.600	53.600	0.904	0.080	1.687	12.100
93	4.650	15.256	78.180	78.181	0.336	0.090	0.430	15.100
94	4.700	15.420	48.530	48.528	0.564	-0.400	1.162	12.000
95	4.750	15.584	49.280	49.283	0.570	0.500	1.157	10.200
96	4.800	15.748	28.280	28.279	0.891	-0.210	3.151	9.600
97	4.850	15.912	53.980	53.978	1.083	-0.360	2.006	11.000
98	4.900	16.076	27.060	27.063	0.993	0.470	3.669	12.600
99	4.950	16.240	25.500	25.510	0.753	1.550	2.952	12.100
100	5.000	16.404	32.090	32.104	0.675	2.300	2.103	13.300
101	5.050	16.568	20.690	20.706	0.547	2.540	2.642	8.700
102	5.100	16.732	20.240	20.268	0.455	4.550	2.245	6.900
103	5.150	16.896	19.840	19.862	0.336	3.560	1.692	10.500
104	5.200	17.060	23.090	23.110	0.259	3.230	1.121	13.000
105	5.250	17.224	18.340	18.357	0.548	2.660	2.985	10.700
106	5.300	17.388	36.390	36.399	0.536	1.520	1.473	18.100
107	5.350	17.552	37.610	37.642	0.868	5.180	2.306	11.600
108	5.400	17.716	41.710	41.736	0.713	4.210	1.708	18.600
109	5.450	17.880	27.110	27.123	0.739	2.120	2.725	20.400
110	5.500	18.044	18.660	18.677	0.442	2.720	2.367	16.100
111	5.550	18.208	28.010	28.032	0.333	3.600	1.188	20.800
112	5.600	18.372	129.280	129.313	0.782	5.280	0.605	21.500
113	5.650	18.537	156.450	156.467	0.977	2.760	0.624	26.900
114	5.700	18.701	95.230	95.237	1.012	1.080	1.063	34.400
115	5.750	18.865	65.920	65.915	1.224	-0.880	1.857	32.100
116	5.800	19.029	44.340	44.339	0.997	-0.150	2.249	27.600
117	5.850	19.193	34.790	34.797	0.802	1.150	2.305	23.500
118	5.900	19.357	37.790	37.787	0.801	-0.420	2.120	19.500
119	5.950	19.521	31.680	31.691	0.914	1.770	2.884	16.500
120	6.000	19.685	25.070	25.085	0.847	2.330	3.377	18.800
121	6.050	19.849	27.020	27.045	0.961	3.970	3.553	17.200
122	6.100	20.013	42.420	42.451	1.010	4.950	2.379	13.700
123	6.150	20.177	51.990	52.014	1.420	3.780	2.730	13.700
124	6.200	20.341	70.850	70.870	1.693	3.230	2.389	11.100
125	6.250	20.505	61.120	61.168	1.714	7.690	2.802	12.900
126	6.300	20.669	43.580	43.610	1.939	4.750	4.446	12.500
127	6.350	20.833	37.130	37.164	1.368	5.380	3.681	11.400
128	6.400	20.997	24.200	24.263	0.893	10.060	3.681	14.300
129	6.450	21.161	24.280	24.319	0.580	6.270	2.385	12.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	53.090	53.121	0.538	4.920	1.013	17.500
131	6.550	21.489	69.470	69.503	0.906	5.240	1.304	12.300
132	6.600	21.653	38.760	38.790	0.949	4.780	2.447	15.000
133	6.650	21.817	27.060	27.094	0.783	5.480	2.890	18.100
134	6.700	21.981	24.390	24.413	0.498	3.760	2.040	20.400
135	6.750	22.145	5.490	5.509	0.365	2.990	6.626	23.600
136	6.800	22.309	6.910	6.936	0.130	4.240	1.874	40.600
137	6.850	22.473	143.060	143.091	0.308	4.910	0.215	46.200
138	6.900	22.638	240.900	240.927	0.155	4.320	0.064	59.000
139	6.950	22.802	237.910	237.948	0.000	6.150	0.000	66.700
140	7.000	22.966	127.650	127.683	0.236	5.320	0.185	69.100
141	7.050	23.130	111.230	111.256	0.876	4.210	0.787	66.700
142	7.100	23.294	77.980	77.998	1.317	2.950	1.688	58.800
143	7.150	23.458	72.000	72.014	0.653	2.170	0.907	51.800
144	7.200	23.622	80.520	80.527	0.883	1.110	1.097	40.000
145	7.250	23.786	214.650	214.660	1.672	1.550	0.779	29.700
146	7.300	23.950	94.540	94.578	1.335	6.090	1.412	45.000
147	7.350	24.114	91.260	91.296	0.987	5.730	1.081	43.600
148	7.400	24.278	84.430	84.460	0.565	4.830	0.669	52.500
149	7.450	24.442	68.160	68.192	0.319	5.060	0.468	59.900
150	7.500	24.606	72.250	72.286	0.184	5.760	0.255	75.500
151	7.550	24.770	79.920	79.957	0.122	5.920	0.153	81.800
152	7.600	24.934	84.520	84.554	0.238	5.470	0.281	90.500
153	7.650	25.098	89.630	89.664	0.292	5.400	0.326	99.800
154	7.700	25.262	88.250	88.284	0.343	5.370	0.389	71.900
155	7.750	25.426	84.390	84.416	0.436	4.180	0.516	72.800
156	7.800	25.590	89.340	89.361	0.515	3.370	0.576	80.000
157	7.850	25.754	79.090	79.109	0.479	3.040	0.605	61.100
158	7.900	25.918	78.180	78.203	0.439	3.640	0.561	59.400
159	7.950	26.082	81.630	81.653	0.689	3.740	0.844	60.100
160	8.000	26.246	101.590	101.611	0.338	3.380	0.333	54.200
161	8.050	26.410	113.610	113.629	0.565	3.020	0.497	60.900
162	8.100	26.574	146.540	146.558	1.080	2.880	0.737	69.000
163	8.150	26.739	125.570	125.595	1.139	4.010	0.907	78.500
164	8.200	26.903	108.600	108.627	0.809	4.400	0.745	69.900
165	8.250	27.067	97.940	97.961	0.701	3.420	0.716	73.400
166	8.300	27.231	76.160	76.180	0.530	3.260	0.696	71.000
167	8.350	27.395	78.240	78.259	0.487	3.070	0.622	69.700
168	8.400	27.559	71.310	71.312	0.575	0.270	0.806	60.100
169	8.450	27.723	69.520	69.523	0.992	0.540	1.427	50.200
170	8.500	27.887	93.230	93.232	0.844	0.250	0.905	45.700
171	8.550	28.051	75.770	75.772	2.312	0.270	3.051	39.500
172	8.600	28.215	81.800	81.804	0.500	0.640	0.611	39.700
173	8.650	28.379	199.490	199.499	0.013	1.440	0.007	26.100
174	8.700	28.543	146.630	146.633	0.015	0.560	0.010	21.300
175	8.750	28.707	124.950	124.952	0.016	0.380	0.013	25.000
176	8.800	28.871	100.120	100.122	0.016	0.270	0.016	16.700
177	8.850	29.035	111.350	111.354	0.044	0.650	0.040	16.500
178	8.900	29.199	106.610	106.615	0.698	0.880	0.655	18.600
179	8.950	29.363	99.410	99.421	0.736	1.730	0.740	19.800
180	9.000	29.527	137.360	137.370	1.277	1.670	0.930	21.600
181	9.050	29.691	99.030	99.039	1.381	1.410	1.394	25.500
182	9.100	29.855	99.330	99.348	1.212	2.960	1.220	35.500
183	9.150	30.019	100.610	100.626	1.215	2.600	1.207	40.300
184	9.200	30.183	74.280	74.297	1.098	2.660	1.478	47.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	68.960	68.975	1.284	2.480	1.862	60.600
186	9.300	30.511	80.450	80.469	1.026	3.120	1.275	74.500
187	9.350	30.675	93.770	93.790	0.871	3.210	0.929	85.200
188	9.400	30.840	100.160	100.171	0.769	1.830	0.768	72.900
189	9.450	31.004	99.980	99.976	0.897	-0.650	0.897	67.300
190	9.500	31.168	99.530	99.521	0.939	-1.520	0.944	55.100
191	9.550	31.332	80.900	80.887	1.010	-2.080	1.249	43.500
192	9.600	31.496	114.610	114.603	0.841	-1.120	0.734	31.100
193	9.650	31.660	89.380	89.372	0.767	-1.310	0.858	24.200
194	9.700	31.824	102.700	102.688	0.898	-1.860	0.874	39.100
195	9.750	31.988	84.140	84.137	0.874	-0.450	1.039	39.400
196	9.800	32.152	83.810	83.808	0.581	-0.390	0.693	39.600
197	9.850	32.316	95.460	95.458	0.709	-0.350	0.743	49.200
198	9.900	32.480	110.720	110.719	0.776	-0.240	0.701	51.400
199	9.950	32.644	99.640	99.640	0.937	0.030	0.940	68.900
200	10.000	32.808	80.820	80.819	1.082	-0.140	1.339	72.700
201	10.050	32.972	65.190	65.190	1.170	-0.040	1.795	93.100
202	10.100	33.136	64.060	64.061	1.384	0.110	2.160	127.000
203	10.150	33.300	68.110	68.112	1.328	0.250	1.950	151.300
204	10.200	33.464	64.750	64.751	0.325	0.100	0.502	257.400
205	10.250	33.628	65.820	65.821	0.385	0.100	0.585	375.700
206	10.300	33.792	81.940	81.945	0.432	0.810	0.527	565.000
207	10.350	33.956	51.090	51.095	0.715	0.870	1.399	677.400
208	10.400	34.120	45.370	45.378	0.647	1.300	1.426	593.700
209	10.450	34.284	58.980	58.994	0.798	2.200	1.353	415.400
210	10.500	34.448	63.280	63.289	0.515	1.440	0.814	279.100
211	10.550	34.612	48.330	48.337	0.118	1.050	0.244	175.400
212	10.600	34.776	47.070	47.076	0.045	0.930	0.096	122.500
213	10.650	34.941	52.660	52.664	0.639	0.570	1.213	77.900
214	10.700	35.105	35.030	35.033	0.861	0.470	2.458	61.200
215	10.750	35.269	61.560	61.568	0.860	1.280	1.397	42.600
216	10.800	35.433	47.510	47.517	0.968	1.080	2.037	35.900
217	10.850	35.597	38.480	38.487	1.207	1.140	3.136	31.700
218	10.900	35.761	67.280	67.287	0.966	1.150	1.436	27.700
219	10.950	35.925	60.770	60.781	0.361	1.700	0.594	26.300
220	11.000	36.089	71.060	71.069	0.270	1.510	0.380	18.300
221	11.050	36.253	83.630	83.638	0.000	1.250	0.000	16.900
222	11.100	36.417	108.200	108.210	0.376	1.550	0.347	16.000
223	11.150	36.581	82.560	82.570	0.688	1.650	0.833	10.000
224	11.200	36.745	34.220	34.226	0.506	0.960	1.478	11.400
225	11.250	36.909	28.560	28.565	0.194	0.740	0.679	15.100
226	11.300	37.073	48.670	48.675	0.400	0.860	0.822	16.200
227	11.350	37.237	55.690	55.700	0.462	1.530	0.829	16.700
228	11.400	37.401	56.690	56.700	0.401	1.600	0.707	22.800
229	11.450	37.565	45.700	45.712	0.371	1.990	0.812	19.600
230	11.500	37.729	46.910	46.921	0.684	1.700	1.458	19.100
231	11.550	37.893	66.770	66.780	0.695	1.610	1.041	18.500
232	11.600	38.057	81.300	81.312	0.594	1.890	0.731	13.400
233	11.650	38.221	90.220	90.245	0.779	4.060	0.863	14.600
234	11.700	38.385	125.310	125.333	1.398	3.730	1.115	14.800
235	11.750	38.549	114.130	114.158	0.947	4.480	0.830	12.200
236	11.800	38.713	101.040	101.071	1.085	4.930	1.074	15.300
237	11.850	38.877	78.560	78.584	0.523	3.880	0.666	16.900
238	11.900	39.042	59.940	59.966	0.553	4.190	0.922	18.900
239	11.950	39.206	56.280	56.309	0.574	4.570	1.019	26.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	59.670	59.697	0.254	4.400	0.425	20.400
241	12.050	39.534	59.570	59.597	0.233	4.300	0.391	25.900
242	12.100	39.698	61.720	61.745	0.671	3.960	1.087	23.700
243	12.150	39.862	48.370	48.392	0.598	3.590	1.236	42.300
244	12.200	40.026	82.050	82.075	0.458	4.050	0.558	35.400
245	12.250	40.190	117.980	118.006	0.192	4.160	0.163	40.700
246	12.300	40.354	103.620	103.647	0.645	4.280	0.622	34.500
247	12.350	40.518	96.770	96.797	0.796	4.330	0.822	32.600
248	12.400	40.682	63.060	63.085	0.833	4.020	1.320	29.600
249	12.450	40.846	56.150	56.175	0.943	4.000	1.679	21.500
250	12.500	41.010	50.120	50.145	1.143	4.010	2.279	20.300
251	12.550	41.174	52.660	52.687	0.974	4.320	1.849	18.200
252	12.600	41.338	63.440	63.467	0.737	4.330	1.161	19.600
253	12.650	41.502	78.420	78.445	0.865	4.070	1.103	19.700
254	12.700	41.666	70.710	70.739	0.354	4.660	0.500	16.100
255	12.750	41.830	83.510	83.538	1.355	4.470	1.622	16.400
256	12.800	41.994	75.600	75.625	1.385	3.980	1.831	12.700
257	12.850	42.158	116.170	116.191	1.176	3.370	1.012	16.500
258	12.900	42.322	142.910	142.935	1.056	4.020	0.739	16.600
259	12.950	42.486	119.120	119.153	1.298	5.220	1.089	12.800
260	13.000	42.650	120.790	120.829	1.346	6.190	1.114	15.400
261	13.050	42.814	142.570	142.609	2.001	6.310	1.403	22.300
262	13.100	42.978	164.560	164.598	1.808	6.060	1.098	30.400
263	13.150	43.143	147.430	147.474	1.206	7.010	0.818	28.700
264	13.200	43.307	175.380	175.422	0.994	6.740	0.567	39.300
265	13.250	43.471	96.100	96.143	0.695	6.830	0.723	52.800
266	13.300	43.635	91.040	91.082	0.264	6.680	0.290	44.500
267	13.350	43.799	77.600	77.641	0.020	6.520	0.026	58.800
268	13.400	43.963	53.400	53.440	0.033	6.360	0.062	58.400
269	13.450	44.127	43.760	43.797	0.041	5.930	0.094	59.900
270	13.500	44.291	45.050	45.086	0.000	5.750	0.000	50.700
271	13.550	44.455	55.810	55.847	0.124	5.850	0.222	63.000
272	13.600	44.619	56.350	56.386	0.185	5.750	0.328	67.900
273	13.650	44.783	65.810	65.850	0.230	6.370	0.349	69.800
274	13.700	44.947	67.710	67.751	0.039	6.500	0.058	77.700
275	13.750	45.111	63.050	63.089	0.000	6.220	0.000	82.400
276	13.800	45.275	59.860	59.897	0.029	5.900	0.048	94.000
277	13.850	45.439	46.890	46.926	0.340	5.730	0.725	81.400
278	13.900	45.603	53.250	53.285	0.809	5.680	1.518	73.700
279	13.950	45.767	96.130	96.168	1.617	6.030	1.681	73.200
280	14.000	45.931	128.540	128.573	1.775	5.350	1.381	64.500
281	14.050	46.095	149.080	149.111	0.691	4.920	0.463	69.100
282	14.100	46.259	174.520	174.552	0.590	5.130	0.338	72.900
283	14.150	46.423	143.270	143.312	0.158	6.710	0.110	70.300
284	14.200	46.587	129.270	129.312	0.128	6.790	0.099	63.600
285	14.250	46.751	120.940	120.980	0.120	6.470	0.099	54.600
286	14.300	46.915	88.340	88.380	0.167	6.340	0.189	50.900
287	14.350	47.079	73.210	73.248	0.239	6.140	0.326	40.400
288	14.400	47.244	70.590	70.626	0.236	5.700	0.334	35.900
289	14.450	47.408	84.500	84.534	0.670	5.380	0.793	34.000
290	14.500	47.572	104.650	104.683	1.142	5.270	1.091	25.700
291	14.550	47.736	101.190	101.223	1.096	5.260	1.083	21.900
292	14.600	47.900	115.190	115.224	1.808	5.370	1.569	23.900
293	14.650	48.064	102.390	102.425	2.412	5.550	2.355	19.200
294	14.700	48.228	111.330	111.370	2.958	6.400	2.656	28.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	151.330	151.367	2.691	5.930	1.778	17.500
296	14.800	48.556	117.300	117.335	0.835	5.540	0.712	21.400
297	14.850	48.720	125.390	125.424	1.704	5.380	1.359	21.900
298	14.900	48.884	238.450	238.482	2.324	5.100	0.974	21.200
299	14.950	49.048	254.610	254.644	2.076	5.400	0.815	23.200
300	15.000	49.212	247.830	247.863	1.623	5.330	0.655	26.500
301	15.050	49.376	208.440	208.477	0.665	6.000	0.319	34.700
302	15.100	49.540	164.750	164.785	1.315	5.660	0.798	35.200
303	15.150	49.704	190.010	190.025	1.658	2.370	0.873	37.200
304	15.200	49.868	232.770	232.785	1.210	2.330	0.520	42.100
305	15.250	50.032	214.830	214.829	0.286	-0.230	0.133	49.300
306	15.300	50.196	177.530	177.525	0.598	-0.750	0.337	35.700
307	15.350	50.360	169.320	169.318	1.438	-0.280	0.849	0.000
308	15.400	50.524	191.830	191.831	1.809	0.180	0.943	0.000
309	15.450	50.688	191.700	191.712	4.660	1.940	2.431	0.000
310	15.500	50.852	212.320	212.332	5.263	2.000	2.479	0.000
311	15.550	51.016	218.240	218.256	3.076	2.640	1.409	0.000
312	15.600	51.180	205.510	205.528	1.644	2.820	0.800	0.000
313	15.650	51.345	190.030	190.050	0.955	3.230	0.502	0.000
314	15.700	51.509	133.550	133.570	1.323	3.170	0.990	0.000
315	15.750	51.673	138.130	138.154	1.907	3.880	1.380	0.000
316	15.800	51.837	105.120	105.145	1.956	3.990	1.860	0.000
317	15.850	52.001	120.990	121.015	1.850	3.930	1.529	0.000
318	15.900	52.165	92.590	92.615	1.830	3.940	1.976	0.000
319	15.950	52.329	110.520	110.544	1.864	3.840	1.686	0.000
320	16.000	52.493	151.900	151.925	1.973	4.030	1.299	0.000
321	16.050	52.657	195.890	195.916	0.000	4.100	0.000	0.000
322	16.100	52.821	214.350	214.377	0.000	4.340	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221540
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-5-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	10:23
CPT File:	13-53075_GP5-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722090.131
Northing / Lat:	4294308.192
Elevation:	144.256
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	16.220	16.221	0.002	0.150	0.012	29.700
2	0.100	0.328	65.470	65.470	0.157	0.080	0.240	35.500
3	0.150	0.492	58.430	58.432	0.278	0.270	0.476	46.500
4	0.200	0.656	54.510	54.513	0.406	0.540	0.745	45.700
5	0.250	0.820	44.720	44.726	0.328	0.960	0.733	63.500
6	0.300	0.984	46.090	46.094	0.422	0.720	0.916	63.600
7	0.350	1.148	25.520	25.525	0.506	0.840	1.982	74.400
8	0.400	1.312	10.470	10.474	0.466	0.660	4.449	98.100
9	0.450	1.476	8.790	8.794	0.408	0.680	4.639	85.700
10	0.500	1.640	10.010	10.005	0.401	-0.770	4.008	86.800
11	0.550	1.804	19.990	19.981	0.625	-1.510	3.128	95.200
12	0.600	1.968	43.700	43.702	1.100	0.390	2.517	95.600
13	0.650	2.133	64.110	64.114	1.573	0.710	2.453	94.600
14	0.700	2.297	79.570	79.572	1.781	0.320	2.238	97.700
15	0.750	2.461	90.230	90.231	1.720	0.230	1.906	96.500
16	0.800	2.625	97.240	97.241	1.356	0.170	1.394	93.000
17	0.850	2.789	95.910	95.910	1.095	-0.080	1.142	97.100
18	0.900	2.953	88.180	88.179	1.164	-0.160	1.320	80.800
19	0.950	3.117	63.810	63.807	1.041	-0.470	1.631	71.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	46.810	46.808	0.751	-0.350	1.604	59.000
21	1.050	3.445	32.140	32.138	0.573	-0.380	1.783	50.800
22	1.100	3.609	21.210	21.207	0.535	-0.420	2.523	40.300
23	1.150	3.773	17.860	17.859	0.405	-0.180	2.268	32.900
24	1.200	3.937	16.080	16.084	0.339	0.630	2.108	26.600
25	1.250	4.101	26.640	26.644	0.439	0.670	1.648	25.000
26	1.300	4.265	27.420	27.427	0.486	1.080	1.772	24.800
27	1.350	4.429	19.000	19.006	0.531	0.920	2.794	24.800
28	1.400	4.593	38.430	38.438	0.424	1.340	1.103	24.000
29	1.450	4.757	30.280	30.288	0.521	1.210	1.720	30.700
30	1.500	4.921	18.910	18.915	0.469	0.740	2.480	20.800
31	1.550	5.085	14.780	14.786	0.310	0.900	2.097	35.400
32	1.600	5.249	19.640	19.646	0.374	1.020	1.904	47.100
33	1.650	5.413	27.210	27.213	0.415	0.410	1.525	57.900
34	1.700	5.577	15.380	15.372	0.395	-1.330	2.570	69.400
35	1.750	5.741	10.110	10.098	0.292	-1.890	2.892	73.300
36	1.800	5.905	11.960	11.950	0.307	-1.630	2.569	72.500
37	1.850	6.069	14.030	14.029	0.367	-0.200	2.616	87.200
38	1.900	6.234	15.190	15.190	0.397	-0.060	2.614	81.000
39	1.950	6.398	20.020	20.017	0.428	-0.470	2.138	85.400
40	2.000	6.562	14.330	14.288	0.443	-6.650	3.100	85.100
41	2.050	6.726	10.130	10.087	0.366	-6.870	3.628	83.000
42	2.100	6.890	9.550	9.523	0.305	-4.360	3.203	62.900
43	2.150	7.054	14.560	14.554	0.229	-0.990	1.573	58.000
44	2.200	7.218	19.470	19.476	0.316	0.970	1.623	45.300
45	2.250	7.382	51.380	51.382	0.701	0.370	1.364	41.800
46	2.300	7.546	45.040	45.046	0.582	0.980	1.292	30.200
47	2.350	7.710	43.180	43.188	0.806	1.220	1.866	23.700
48	2.400	7.874	34.410	34.412	0.681	0.250	1.979	21.300
49	2.450	8.038	11.100	11.101	0.609	0.110	5.486	23.000
50	2.500	8.202	7.530	7.535	0.403	0.800	5.348	23.800
51	2.550	8.366	6.760	6.763	0.313	0.530	4.628	25.900
52	2.600	8.530	5.480	5.484	0.276	0.630	5.033	26.900
53	2.650	8.694	2.940	2.960	0.140	3.230	4.729	30.100
54	2.700	8.858	5.870	5.893	0.170	3.620	2.885	37.400
55	2.750	9.022	23.660	23.674	0.504	2.310	2.129	58.200
56	2.800	9.186	22.400	22.442	0.614	6.800	2.736	63.200
57	2.850	9.350	21.590	21.612	0.707	3.490	3.271	68.200
58	2.900	9.514	25.100	25.112	0.498	1.860	1.983	75.800
59	2.950	9.678	29.850	29.855	0.595	0.800	1.993	86.400
60	3.000	9.842	37.640	37.648	0.700	1.270	1.859	75.000
61	3.050	10.006	29.840	29.830	0.776	-1.600	2.601	82.200
62	3.100	10.170	20.460	20.437	0.652	-3.710	3.190	69.200
63	3.150	10.335	16.220	16.242	0.279	3.500	1.718	68.400
64	3.200	10.499	23.520	23.536	0.637	2.570	2.706	43.600
65	3.250	10.663	38.250	38.289	0.850	6.230	2.220	40.400
66	3.300	10.827	25.920	25.919	1.108	-0.100	4.275	47.200
67	3.350	10.991	19.500	19.513	1.246	2.030	6.386	36.400
68	3.400	11.155	18.570	18.591	1.414	3.350	7.606	39.700
69	3.450	11.319	25.610	25.632	1.251	3.470	4.881	39.000
70	3.500	11.483	25.360	25.375	1.079	2.480	4.252	33.900
71	3.550	11.647	21.670	21.661	0.725	-1.450	3.347	29.500
72	3.600	11.811	7.850	7.849	0.527	-0.090	6.714	30.600
73	3.650	11.975	20.830	20.828	0.928	-0.310	4.456	25.300
74	3.700	12.139	22.410	22.417	0.989	1.160	4.412	29.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	20.390	20.395	1.328	0.830	6.511	29.700
76	3.800	12.467	27.390	27.390	1.132	0.070	4.133	21.800
77	3.850	12.631	23.880	23.883	0.755	0.520	3.161	20.400
78	3.900	12.795	20.120	20.120	0.953	0.080	4.736	17.200
79	3.950	12.959	29.560	29.561	1.164	0.230	3.938	23.300
80	4.000	13.123	35.370	35.389	1.441	3.000	4.072	16.200
81	4.050	13.287	62.160	62.274	1.442	18.210	2.316	20.500
82	4.100	13.451	41.010	41.066	1.478	8.960	3.599	26.800
83	4.150	13.615	35.590	35.616	1.479	4.120	4.153	35.100
84	4.200	13.779	20.500	20.525	1.176	3.950	5.730	31.600
85	4.250	13.943	11.920	11.955	0.841	5.660	7.035	58.700
86	4.300	14.107	9.020	9.075	0.447	8.860	4.925	73.400
87	4.350	14.271	17.560	17.631	0.451	11.420	2.558	78.700
88	4.400	14.436	22.860	22.913	0.417	8.550	1.820	97.900
89	4.450	14.600	20.390	20.422	0.505	5.090	2.473	92.800
90	4.500	14.764	28.170	28.225	0.637	8.860	2.257	98.500
91	4.550	14.928	34.080	34.136	0.882	8.930	2.584	105.400
92	4.600	15.092	43.270	43.317	1.210	7.470	2.793	89.700
93	4.650	15.256	33.510	33.537	1.316	4.270	3.924	102.900
94	4.700	15.420	28.950	28.974	0.965	3.780	3.331	90.800
95	4.750	15.584	31.450	31.475	0.960	3.940	3.050	83.700
96	4.800	15.748	42.160	42.170	1.208	1.620	2.865	86.000
97	4.850	15.912	33.090	33.100	1.439	1.530	4.347	86.300
98	4.900	16.076	25.320	25.330	1.380	1.650	5.448	62.200
99	4.950	16.240	25.970	25.977	0.966	1.060	3.719	68.800
100	5.000	16.404	46.150	46.153	0.793	0.450	1.718	63.100
101	5.050	16.568	58.160	58.162	1.012	0.370	1.740	43.300
102	5.100	16.732	42.740	42.742	1.451	0.360	3.395	41.100
103	5.150	16.896	34.210	34.222	1.312	1.860	3.834	44.800
104	5.200	17.060	17.750	17.743	1.141	-1.050	6.431	35.300
105	5.250	17.224	11.180	11.178	0.748	-0.350	6.692	36.400
106	5.300	17.388	31.190	31.190	0.301	-0.030	0.965	49.400
107	5.350	17.552	17.090	17.093	0.331	0.520	1.936	44.900
108	5.400	17.716	18.940	18.942	0.305	0.290	1.610	41.700
109	5.450	17.880	40.280	40.278	0.633	-0.360	1.572	42.000
110	5.500	18.044	61.000	60.995	0.593	-0.780	0.972	44.300
111	5.550	18.208	34.670	34.668	0.604	-0.370	1.742	43.500
112	5.600	18.372	33.170	33.169	0.412	-0.140	1.242	40.100
113	5.650	18.537	35.550	35.549	0.197	-0.200	0.554	44.300
114	5.700	18.701	37.120	37.118	0.171	-0.260	0.461	43.600
115	5.750	18.865	41.350	41.349	0.144	-0.090	0.348	39.500
116	5.800	19.029	43.910	43.913	0.124	0.440	0.282	40.700
117	5.850	19.193	47.030	47.033	0.109	0.450	0.232	44.500
118	5.900	19.357	45.920	45.924	0.099	0.620	0.216	49.800
119	5.950	19.521	44.450	44.448	0.095	-0.300	0.214	51.900
120	6.000	19.685	41.010	41.013	0.099	0.490	0.241	53.000
121	6.050	19.849	40.800	40.802	0.211	0.270	0.517	73.000
122	6.100	20.013	49.700	49.699	0.549	-0.170	1.105	84.000
123	6.150	20.177	58.360	58.360	0.759	0.040	1.301	119.500
124	6.200	20.341	157.580	157.574	1.153	-1.010	0.732	107.400
125	6.250	20.505	196.770	196.769	1.235	-0.160	0.628	91.700
126	6.300	20.669	171.590	171.584	1.800	-1.020	1.049	80.500
127	6.350	20.833	100.840	100.839	1.833	-0.140	1.818	89.800
128	6.400	20.997	73.430	73.435	1.404	0.750	1.912	106.900
129	6.450	21.161	74.990	74.997	1.218	1.100	1.624	105.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	108.100	108.108	1.135	1.320	1.050	101.800
131	6.550	21.489	106.230	106.230	0.895	-0.010	0.843	94.400
132	6.600	21.653	71.430	71.430	0.507	-0.010	0.710	102.100
133	6.650	21.817	57.350	57.356	0.558	0.910	0.973	141.600
134	6.700	21.981	55.870	55.875	0.969	0.810	1.734	148.400
135	6.750	22.145	37.790	37.793	0.688	0.500	1.820	164.600
136	6.800	22.309	45.440	45.442	0.666	0.350	1.466	147.400
137	6.850	22.473	45.190	45.204	0.577	2.310	1.276	124.400
138	6.900	22.638	46.660	46.668	0.731	1.340	1.566	112.000
139	6.950	22.802	24.600	24.621	1.442	3.320	5.857	117.500
140	7.000	22.966	73.190	73.201	1.600	1.760	2.186	135.400
141	7.050	23.130	14.340	14.379	1.230	6.220	8.554	180.000
142	7.100	23.294	6.370	6.362	0.864	-1.210	13.580	277.900
143	7.150	23.458	6.180	6.145	0.138	-5.610	2.246	376.600
144	7.200	23.622	5.900	5.913	0.135	2.040	2.283	437.500
145	7.250	23.786	13.420	13.430	0.141	1.550	1.050	509.800
146	7.300	23.950	20.020	20.023	0.181	0.410	0.904	607.700
147	7.350	24.114	17.580	17.591	0.217	1.690	1.234	772.900
148	7.400	24.278	25.300	25.319	0.362	3.020	1.430	1108.000
149	7.450	24.442	37.870	37.912	0.665	6.760	1.754	1390.900
150	7.500	24.606	23.090	23.147	0.753	9.210	3.253	1560.500
151	7.550	24.770	13.640	13.682	0.980	6.800	7.162	1651.600
152	7.600	24.934	26.320	26.368	0.735	7.640	2.788	1936.800
153	7.650	25.098	31.050	31.062	0.682	1.950	2.196	2112.300
154	7.700	25.262	32.180	32.203	0.848	3.710	2.633	1817.400
155	7.750	25.426	30.920	30.950	0.827	4.750	2.672	1140.800
156	7.800	25.590	40.100	40.111	1.145	1.750	2.855	556.100
157	7.850	25.754	44.600	44.586	1.492	-2.260	3.346	314.500
158	7.900	25.918	40.920	40.895	1.486	-4.070	3.634	191.100
159	7.950	26.082	34.220	34.188	1.507	-5.100	4.408	132.600
160	8.000	26.246	45.720	45.702	1.489	-2.940	3.258	101.600
161	8.050	26.410	41.770	41.803	1.309	5.300	3.131	94.200
162	8.100	26.574	35.830	35.871	1.327	6.540	3.699	65.800
163	8.150	26.739	41.860	41.873	0.944	2.090	2.254	54.200
164	8.200	26.903	71.270	71.281	1.583	1.740	2.221	51.700
165	8.250	27.067	35.180	35.184	1.596	0.570	4.536	34.500
166	8.300	27.231	37.110	37.118	1.377	1.300	3.710	28.700
167	8.350	27.395	21.320	21.330	0.907	1.630	4.252	23.100
168	8.400	27.559	16.920	16.928	0.535	1.320	3.160	18.100
169	8.450	27.723	23.240	23.245	0.342	0.750	1.471	22.300
170	8.500	27.887	27.550	27.556	0.303	0.940	1.100	21.100
171	8.550	28.051	20.190	20.195	0.371	0.810	1.837	16.600
172	8.600	28.215	12.320	12.321	0.374	0.210	3.035	14.700
173	8.650	28.379	14.930	14.935	0.447	0.860	2.993	13.000
174	8.700	28.543	19.770	19.780	0.585	1.580	2.958	15.100
175	8.750	28.707	34.400	34.406	0.724	0.980	2.104	17.400
176	8.800	28.871	37.330	37.343	0.892	2.160	2.389	15.600
177	8.850	29.035	58.080	58.086	1.063	0.960	1.830	19.900
178	8.900	29.199	73.910	73.910	1.442	0.030	1.951	18.300
179	8.950	29.363	68.860	68.870	2.110	1.590	3.064	17.200
180	9.000	29.527	40.630	40.633	2.059	0.430	5.067	18.500
181	9.050	29.691	33.370	33.405	1.819	5.580	5.445	18.500
182	9.100	29.855	33.220	33.235	1.384	2.450	4.164	20.900
183	9.150	30.019	23.260	23.339	1.143	12.720	4.897	21.700
184	9.200	30.183	18.610	18.763	1.328	24.510	7.078	20.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	45.520	45.575	1.509	8.880	3.311	21.700
186	9.300	30.511	33.840	33.851	1.223	1.750	3.613	28.900
187	9.350	30.675	52.840	52.837	0.839	-0.520	1.588	35.000
188	9.400	30.840	89.780	89.805	0.681	4.010	0.758	36.300
189	9.450	31.004	154.770	154.794	1.232	3.800	0.796	41.000
190	9.500	31.168	194.980	194.998	2.122	2.810	1.088	41.300
191	9.550	31.332	205.440	205.458	2.573	2.830	1.252	43.500
192	9.600	31.496	189.990	190.008	2.571	2.950	1.353	42.100
193	9.650	31.660	120.840	120.859	3.206	3.120	2.653	31.200
194	9.700	31.824	84.590	84.614	2.600	3.840	3.073	25.800
195	9.750	31.988	57.120	57.162	1.856	6.710	3.247	20.800
196	9.800	32.152	48.060	48.178	2.049	18.930	4.253	19.700
197	9.850	32.316	55.790	55.897	1.866	17.140	3.338	25.500
198	9.900	32.480	84.550	84.656	2.451	16.930	2.895	18.500
199	9.950	32.644	129.440	129.532	2.550	14.760	1.969	26.200
200	10.000	32.808	93.000	93.073	2.709	11.730	2.911	28.100
201	10.050	32.972	78.460	78.523	2.185	10.050	2.783	36.600
202	10.100	33.136	61.360	61.417	2.252	9.090	3.667	42.500
203	10.150	33.300	49.140	49.197	2.363	9.060	4.803	44.200
204	10.200	33.464	42.210	42.261	2.341	8.100	5.539	45.000
205	10.250	33.628	42.680	42.719	1.971	6.290	4.614	43.800
206	10.300	33.792	25.720	25.761	1.210	6.490	4.697	42.200
207	10.350	33.956	24.970	25.050	0.865	12.750	3.453	40.800
208	10.400	34.120	46.180	46.255	1.210	12.020	2.616	41.600
209	10.450	34.284	87.450	87.522	1.664	11.570	1.901	52.900
210	10.500	34.448	60.350	60.417	1.402	10.780	2.321	63.400
211	10.550	34.612	26.040	26.107	1.076	10.680	4.122	68.600
212	10.600	34.776	24.120	24.188	0.502	10.890	2.075	77.100
213	10.650	34.941	23.990	24.058	0.501	10.960	2.082	78.700
214	10.700	35.105	22.980	23.048	0.427	10.930	1.853	66.800
215	10.750	35.269	34.280	34.349	0.365	11.020	1.063	64.200
216	10.800	35.433	60.260	60.309	0.253	7.890	0.420	62.800
217	10.850	35.597	75.570	75.607	0.508	5.900	0.672	44.800
218	10.900	35.761	40.770	40.803	0.612	5.240	1.500	36.200
219	10.950	35.925	40.720	40.744	1.003	3.830	2.462	35.100
220	11.000	36.089	48.470	48.495	1.288	4.080	2.656	37.200
221	11.050	36.253	64.090	64.128	1.402	6.070	2.186	45.800
222	11.100	36.417	70.110	70.139	1.375	4.710	1.960	45.800
223	11.150	36.581	75.360	75.383	1.435	3.670	1.904	35.100
224	11.200	36.745	60.550	60.568	1.371	2.960	2.264	34.800
225	11.250	36.909	47.520	47.536	1.332	2.600	2.802	36.800
226	11.300	37.073	46.140	46.161	1.248	3.290	2.704	38.800
227	11.350	37.237	59.730	59.751	1.597	3.380	2.673	55.600
228	11.400	37.401	52.970	52.994	1.515	3.870	2.859	60.600
229	11.450	37.565	42.270	42.317	1.507	7.480	3.561	57.900
230	11.500	37.729	43.400	43.435	1.466	5.550	3.375	54.000
231	11.550	37.893	47.670	47.710	1.351	6.420	2.832	53.700
232	11.600	38.057	45.700	45.742	1.501	6.710	3.281	37.700
233	11.650	38.221	51.860	51.906	1.926	7.400	3.711	34.800
234	11.700	38.385	63.260	63.304	2.244	7.050	3.545	0.000
235	11.750	38.549	72.880	72.924	2.273	7.000	3.117	0.000
236	11.800	38.713	66.190	66.233	1.982	6.860	2.992	0.000
237	11.850	38.877	30.270	30.305	1.414	5.610	4.666	0.000
238	11.900	39.042	35.940	35.970	0.996	4.840	2.769	0.000
239	11.950	39.206	40.870	40.899	1.206	4.670	2.949	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	62.770	62.799	1.297	4.600	2.065	0.000
241	12.050	39.534	46.220	46.255	1.284	5.660	2.776	0.000
242	12.100	39.698	30.920	30.952	1.104	5.120	3.567	0.000
243	12.150	39.862	22.940	22.975	0.701	5.640	3.051	0.000
244	12.200	40.026	42.710	42.746	0.771	5.780	1.804	0.000
245	12.250	40.190	28.730	28.758	0.964	4.430	3.352	0.000
246	12.300	40.354	47.520	47.544	1.066	3.890	2.242	0.000
247	12.350	40.518	35.650	35.680	0.753	4.760	2.110	0.000
248	12.400	40.682	24.530	24.555	1.230	4.030	5.009	0.000
249	12.450	40.846	21.000	21.023	0.000	3.670	0.000	0.000
250	12.500	41.010	333.540	333.563	0.000	3.760	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221541
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-5-2
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-18-2013
CPT Time:	14:26
CPT File:	13-53075_GP5-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722071.913
Northing / Lat:	4294295.348
Elevation:	144.164
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	84.770	84.772	0.233	0.400	0.275	24.300
2	0.100	0.328	110.620	110.622	0.289	0.250	0.261	12.200
3	0.150	0.492	92.940	92.937	0.628	-0.480	0.676	7.300
4	0.200	0.656	73.270	73.273	0.511	0.440	0.697	7.400
5	0.250	0.820	58.330	58.331	0.696	0.240	1.193	6.500
6	0.300	0.984	35.000	35.010	0.592	1.530	1.691	13.500
7	0.350	1.148	13.670	13.668	0.558	-0.330	4.083	9.300
8	0.400	1.312	9.400	9.404	0.431	0.640	4.583	12.400
9	0.450	1.476	9.210	9.205	0.344	-0.730	3.737	10.600
10	0.500	1.640	10.340	10.314	0.343	-4.100	3.325	40.300
11	0.550	1.804	20.640	20.639	0.409	-0.160	1.982	101.600
12	0.600	1.968	46.080	46.080	0.387	0.040	0.840	87.700
13	0.650	2.133	67.090	67.090	0.436	-0.030	0.650	97.700
14	0.700	2.297	61.190	61.189	0.385	-0.200	0.629	96.900
15	0.750	2.461	39.950	39.948	0.386	-0.380	0.966	81.400
16	0.800	2.625	30.410	30.407	0.317	-0.420	1.043	85.100
17	0.850	2.789	19.540	19.537	0.247	-0.460	1.264	67.800
18	0.900	2.953	15.420	15.418	0.185	-0.390	1.200	68.800
19	0.950	3.117	11.130	11.126	0.154	-0.570	1.384	56.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	11.860	11.859	0.216	-0.200	1.821	40.700
21	1.050	3.445	15.350	15.350	0.279	0.070	1.818	34.700
22	1.100	3.609	5.090	5.093	0.244	0.450	4.791	23.200
23	1.150	3.773	18.310	18.308	0.390	-0.300	2.130	15.100
24	1.200	3.937	29.550	29.549	0.356	-0.200	1.205	6.700
25	1.250	4.101	16.190	16.192	0.496	0.350	3.063	14.400
26	1.300	4.265	11.650	11.650	0.333	-0.060	2.858	11.900
27	1.350	4.429	4.450	4.453	0.216	0.430	4.851	13.400
28	1.400	4.593	13.400	13.401	0.149	0.180	1.112	13.700
29	1.450	4.757	51.240	51.243	0.209	0.460	0.408	13.700
30	1.500	4.921	35.110	35.158	0.502	7.690	1.428	11.200
31	1.550	5.085	22.210	22.218	0.571	1.340	2.570	10.600
32	1.600	5.249	13.500	13.533	0.528	5.280	3.902	11.400
33	1.650	5.413	19.830	19.792	0.507	-6.010	2.562	9.400
34	1.700	5.577	11.590	11.593	0.367	0.520	3.166	5.500
35	1.750	5.741	12.490	12.500	0.301	1.550	2.408	15.000
36	1.800	5.905	19.700	19.700	0.378	-0.010	1.919	17.500
37	1.850	6.069	29.850	29.853	0.605	0.480	2.027	18.700
38	1.900	6.234	48.750	48.751	0.591	0.140	1.212	22.300
39	1.950	6.398	24.350	24.352	0.483	0.260	1.983	28.900
40	2.000	6.562	26.630	26.629	0.466	-0.150	1.750	33.700
41	2.050	6.726	15.300	15.298	0.229	-0.390	1.497	35.000
42	2.100	6.890	9.820	9.821	0.214	0.180	2.179	33.500
43	2.150	7.054	6.260	6.261	0.203	0.210	3.242	33.400
44	2.200	7.218	5.820	5.821	0.225	0.190	3.865	25.000
45	2.250	7.382	18.650	18.651	0.418	0.150	2.241	18.800
46	2.300	7.546	14.980	14.983	0.381	0.410	2.543	17.500
47	2.350	7.710	10.120	10.110	0.311	-1.600	3.076	12.300
48	2.400	7.874	18.930	18.928	0.362	-0.360	1.913	15.100
49	2.450	8.038	28.640	28.635	0.386	-0.770	1.348	14.200
50	2.500	8.202	11.760	11.778	0.335	2.810	2.844	14.900
51	2.550	8.366	13.200	13.200	0.331	0.010	2.508	12.600
52	2.600	8.530	51.720	51.723	0.384	0.410	0.742	17.800
53	2.650	8.694	118.000	118.007	0.753	1.190	0.638	18.000
54	2.700	8.858	190.630	190.637	1.097	1.050	0.575	17.800
55	2.750	9.022	280.560	280.576	0.737	2.540	0.263	30.600
56	2.800	9.186	160.400	160.400	1.023	0.080	0.638	30.700
57	2.850	9.350	65.650	65.659	0.711	1.390	1.083	42.600
58	2.900	9.514	71.310	71.315	1.124	0.880	1.576	46.000
59	2.950	9.678	53.500	53.500	1.103	0.040	2.062	69.900
60	3.000	9.842	14.060	14.092	1.037	5.060	7.359	84.100
61	3.050	10.006	20.980	21.023	0.425	6.900	2.022	89.600
62	3.100	10.170	30.300	30.308	0.391	1.310	1.290	76.800
63	3.150	10.335	38.180	38.206	0.512	4.140	1.340	85.800
64	3.200	10.499	37.460	37.459	0.571	-0.200	1.524	87.300
65	3.250	10.663	36.930	36.931	0.548	0.120	1.484	86.800
66	3.300	10.827	40.650	40.620	0.470	-4.800	1.157	84.600
67	3.350	10.991	36.200	36.149	0.316	-8.200	0.874	75.800
68	3.400	11.155	25.680	25.626	0.325	-8.620	1.268	74.800
69	3.450	11.319	9.900	9.867	0.242	-5.240	2.453	82.600
70	3.500	11.483	4.640	4.608	0.106	-5.190	2.301	61.200
71	3.550	11.647	2.020	2.019	0.031	-0.130	1.535	60.000
72	3.600	11.811	1.270	1.268	0.020	-0.300	1.577	46.600
73	3.650	11.975	1.540	1.539	0.043	-0.120	2.794	52.900
74	3.700	12.139	3.880	3.881	0.081	0.120	2.087	37.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	9.970	9.974	0.084	0.610	0.842	43.900
76	3.800	12.467	18.270	18.266	0.163	-0.700	0.892	31.000
77	3.850	12.631	13.940	13.945	0.232	0.770	1.664	33.200
78	3.900	12.795	7.940	7.940	0.290	0.070	3.652	26.900
79	3.950	12.959	9.740	9.748	0.256	1.250	2.626	20.200
80	4.000	13.123	7.440	7.425	0.272	-2.440	3.663	18.700
81	4.050	13.287	6.290	6.286	0.234	-0.640	3.723	24.600
82	4.100	13.451	5.390	5.390	0.236	0.050	4.378	24.000
83	4.150	13.615	10.730	10.728	0.256	-0.400	2.386	24.100
84	4.200	13.779	21.600	21.606	0.375	0.920	1.736	26.700
85	4.250	13.943	15.310	15.318	0.331	1.330	2.161	41.600
86	4.300	14.107	27.650	27.656	0.391	0.920	1.414	38.000
87	4.350	14.271	19.120	19.124	0.333	0.660	1.741	58.800
88	4.400	14.436	14.590	14.595	0.267	0.880	1.829	62.900
89	4.450	14.600	19.770	19.777	0.163	1.050	0.824	78.700
90	4.500	14.764	27.720	27.730	0.191	1.650	0.689	79.400
91	4.550	14.928	27.290	27.301	0.268	1.710	0.982	84.600
92	4.600	15.092	23.000	23.008	0.316	1.330	1.373	80.800
93	4.650	15.256	20.590	20.600	0.765	1.620	3.714	90.000
94	4.700	15.420	21.750	21.753	0.724	0.420	3.328	91.400
95	4.750	15.584	50.220	50.199	0.588	-3.340	1.171	82.800
96	4.800	15.748	48.330	48.311	0.559	-3.000	1.157	78.000
97	4.850	15.912	30.450	30.451	0.812	0.090	2.667	79.600
98	4.900	16.076	26.410	26.407	1.151	-0.470	4.359	81.500
99	4.950	16.240	20.150	20.152	0.799	0.270	3.965	80.300
100	5.000	16.404	16.420	16.424	0.612	0.570	3.726	80.100
101	5.050	16.568	25.190	25.176	0.642	-2.220	2.550	55.900
102	5.100	16.732	33.650	33.649	0.670	-0.230	1.991	60.000
103	5.150	16.896	26.850	26.880	0.528	4.830	1.964	54.600
104	5.200	17.060	37.140	37.152	0.780	1.980	2.099	60.500
105	5.250	17.224	30.430	30.421	0.896	-1.470	2.945	49.900
106	5.300	17.388	20.370	20.364	0.835	-0.910	4.100	49.700
107	5.350	17.552	17.640	17.635	0.488	-0.780	2.767	48.400
108	5.400	17.716	14.220	14.215	0.431	-0.800	3.032	46.600
109	5.450	17.880	9.500	9.498	0.397	-0.350	4.180	36.300
110	5.500	18.044	12.400	12.407	0.246	1.060	1.983	49.800
111	5.550	18.208	23.140	23.143	0.159	0.430	0.687	37.900
112	5.600	18.372	8.580	8.577	0.614	-0.420	7.158	43.300
113	5.650	18.537	48.140	48.139	0.969	-0.200	2.013	44.900
114	5.700	18.701	25.160	25.178	1.068	2.900	4.242	59.500
115	5.750	18.865	16.230	16.227	0.910	-0.410	5.608	63.600
116	5.800	19.029	17.470	17.459	0.523	-1.690	2.996	76.900
117	5.850	19.193	21.400	21.392	0.473	-1.290	2.211	83.000
118	5.900	19.357	25.130	25.123	0.532	-1.050	2.118	83.400
119	5.950	19.521	24.060	24.048	0.527	-1.920	2.191	71.000
120	6.000	19.685	20.630	20.591	0.535	-6.240	2.598	85.300
121	6.050	19.849	12.160	12.104	0.375	-8.990	3.098	92.000
122	6.100	20.013	9.320	9.264	0.228	-9.000	2.461	94.700
123	6.150	20.177	14.080	14.064	0.241	-2.570	1.714	81.900
124	6.200	20.341	7.500	7.491	0.224	-1.440	2.990	52.600
125	6.250	20.505	7.820	7.815	0.263	-0.760	3.365	40.200
126	6.300	20.669	26.940	26.939	0.389	-0.240	1.444	34.800
127	6.350	20.833	21.390	21.393	0.550	0.460	2.571	34.500
128	6.400	20.997	16.030	16.029	0.423	-0.220	2.639	37.000
129	6.450	21.161	17.110	17.112	0.295	0.370	1.724	45.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	47.390	47.394	0.512	0.690	1.080	67.900
131	6.550	21.489	79.560	79.562	0.412	0.300	0.518	75.200
132	6.600	21.653	9.040	9.011	0.924	-4.720	10.255	80.700
133	6.650	21.817	24.040	24.007	0.644	-5.310	2.683	89.100
134	6.700	21.981	5.340	5.318	0.536	-3.550	10.079	79.700
135	6.750	22.145	4.190	4.199	0.527	1.470	12.550	97.500
136	6.800	22.309	13.190	13.198	0.450	1.240	3.410	99.000
137	6.850	22.473	36.800	36.816	0.836	2.490	2.271	76.000
138	6.900	22.638	46.620	46.613	0.832	-1.190	1.785	62.000
139	6.950	22.802	40.590	40.586	0.923	-0.690	2.274	79.300
140	7.000	22.966	34.820	34.820	0.742	0.010	2.131	69.100
141	7.050	23.130	36.230	36.231	0.527	0.240	1.455	86.000
142	7.100	23.294	75.790	75.789	1.024	-0.180	1.351	92.900
143	7.150	23.458	87.370	87.365	1.358	-0.790	1.554	84.200
144	7.200	23.622	34.750	34.760	1.457	1.570	4.192	67.800
145	7.250	23.786	26.090	26.098	1.050	1.210	4.023	59.700
146	7.300	23.950	16.160	16.163	0.519	0.470	3.211	71.800
147	7.350	24.114	14.110	14.126	0.502	2.600	3.554	78.900
148	7.400	24.278	19.650	19.594	0.616	-9.030	3.144	94.400
149	7.450	24.442	24.980	24.929	0.692	-8.140	2.776	96.300
150	7.500	24.606	19.190	19.166	0.993	-3.820	5.181	127.400
151	7.550	24.770	19.910	19.878	1.011	-5.190	5.086	142.700
152	7.600	24.934	66.840	66.782	1.156	-9.310	1.731	167.000
153	7.650	25.098	47.670	47.666	1.725	-0.710	3.619	204.100
154	7.700	25.262	31.880	31.875	1.764	-0.790	5.534	299.900
155	7.750	25.426	29.840	29.833	1.181	-1.060	3.959	415.900
156	7.800	25.590	55.320	55.327	1.255	1.090	2.268	556.300
157	7.850	25.754	24.880	24.888	1.176	1.290	4.725	824.800
158	7.900	25.918	12.140	12.152	1.054	1.950	8.673	1187.100
159	7.950	26.082	17.700	17.717	0.538	2.760	3.037	1820.300
160	8.000	26.246	5.870	5.896	0.423	4.190	7.174	1911.400
161	8.050	26.410	10.410	10.435	0.476	4.000	4.562	1551.500
162	8.100	26.574	16.380	16.389	0.682	1.370	4.161	991.900
163	8.150	26.739	28.310	28.306	0.777	-0.690	2.745	564.400
164	8.200	26.903	85.830	85.801	0.953	-4.720	1.111	306.000
165	8.250	27.067	96.600	96.600	1.364	-0.010	1.412	199.700
166	8.300	27.231	96.570	96.572	1.717	0.250	1.778	129.800
167	8.350	27.395	93.240	93.241	2.037	0.230	2.185	88.600
168	8.400	27.559	100.720	100.731	2.101	1.810	2.086	77.200
169	8.450	27.723	109.680	109.691	1.743	1.780	1.589	61.400
170	8.500	27.887	135.520	135.523	2.605	0.430	1.922	51.900
171	8.550	28.051	122.110	122.110	2.167	0.010	1.775	42.100
172	8.600	28.215	80.280	80.278	1.312	-0.390	1.634	37.700
173	8.650	28.379	55.090	55.090	0.398	-0.030	0.722	28.800
174	8.700	28.543	23.960	23.961	0.489	0.090	2.041	19.800
175	8.750	28.707	32.470	32.472	0.472	0.380	1.454	20.400
176	8.800	28.871	50.250	50.261	0.683	1.840	1.359	16.000
177	8.850	29.035	48.220	48.205	1.222	-2.440	2.535	15.700
178	8.900	29.199	33.170	33.176	1.434	0.990	4.322	17.900
179	8.950	29.363	24.390	24.413	1.295	3.620	5.305	17.900
180	9.000	29.527	33.340	33.330	1.396	-1.630	4.188	18.300
181	9.050	29.691	41.280	41.267	1.326	-2.050	3.213	13.700
182	9.100	29.855	27.420	27.425	1.142	0.750	4.164	14.900
183	9.150	30.019	20.440	20.427	0.892	-2.050	4.367	15.100
184	9.200	30.183	17.980	17.993	0.576	2.030	3.201	11.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	24.550	24.559	0.552	1.430	2.248	15.100
186	9.300	30.511	24.370	24.381	0.574	1.820	2.354	10.400
187	9.350	30.675	19.520	19.534	0.570	2.310	2.918	11.900
188	9.400	30.840	39.800	39.810	0.640	1.570	1.608	11.100
189	9.450	31.004	34.990	35.006	0.953	2.510	2.722	13.100
190	9.500	31.168	37.340	37.357	1.115	2.700	2.985	9.600
191	9.550	31.332	81.720	81.724	2.084	0.710	2.550	13.700
192	9.600	31.496	66.770	66.781	1.948	1.810	2.917	14.900
193	9.650	31.660	46.530	46.544	2.235	2.210	4.802	20.600
194	9.700	31.824	42.140	42.167	1.560	4.310	3.700	21.100
195	9.750	31.988	41.420	41.459	1.502	6.220	3.623	31.000
196	9.800	32.152	55.220	55.228	1.432	1.350	2.593	36.300
197	9.850	32.316	70.050	70.068	2.345	2.910	3.347	41.000
198	9.900	32.480	56.510	56.529	1.784	2.970	3.156	33.300
199	9.950	32.644	76.790	76.803	2.332	2.020	3.036	31.700
200	10.000	32.808	60.630	60.640	2.197	1.540	3.623	25.800
201	10.050	32.972	68.030	68.054	2.147	3.840	3.155	20.200
202	10.100	33.136	71.500	71.520	2.048	3.170	2.864	13.800
203	10.150	33.300	89.180	89.209	3.689	4.720	4.135	13.000
204	10.200	33.464	144.210	144.228	4.170	2.890	2.891	9.700
205	10.250	33.628	69.140	69.158	3.545	2.910	5.126	10.500
206	10.300	33.792	26.250	26.276	3.201	4.210	12.182	9.700
207	10.350	33.956	15.170	15.186	2.206	2.520	14.527	13.500
208	10.400	34.120	30.510	30.534	1.139	3.900	3.730	14.300
209	10.450	34.284	110.700	110.737	1.532	5.940	1.383	20.900
210	10.500	34.448	130.070	130.096	2.154	4.240	1.656	22.600
211	10.550	34.612	57.880	57.914	1.867	5.380	3.224	24.700
212	10.600	34.776	56.000	56.020	1.607	3.230	2.869	35.800
213	10.650	34.941	122.680	122.632	1.281	-7.710	1.045	36.900
214	10.700	35.105	114.470	114.442	1.613	-4.520	1.409	32.800
215	10.750	35.269	95.290	95.259	1.666	-4.890	1.749	28.400
216	10.800	35.433	100.020	100.041	2.154	3.340	2.153	21.200
217	10.850	35.597	96.760	96.784	2.122	3.920	2.193	21.400
218	10.900	35.761	82.730	82.756	2.489	4.120	3.008	23.300
219	10.950	35.925	73.650	73.679	2.056	4.600	2.790	24.800
220	11.000	36.089	68.630	68.670	2.090	6.390	3.044	29.100
221	11.050	36.253	74.170	74.209	2.139	6.210	2.882	37.500
222	11.100	36.417	47.990	48.020	1.953	4.770	4.067	35.300
223	11.150	36.581	31.320	31.350	1.632	4.880	5.206	31.300
224	11.200	36.745	57.290	57.320	1.356	4.820	2.366	31.800
225	11.250	36.909	39.220	39.227	1.496	1.080	3.814	30.800
226	11.300	37.073	41.330	41.343	1.943	2.020	4.700	19.400
227	11.350	37.237	120.450	120.462	2.157	1.890	1.791	31.900
228	11.400	37.401	197.120	197.126	2.982	1.000	1.513	42.500
229	11.450	37.565	181.790	181.801	3.131	1.800	1.722	39.500
230	11.500	37.729	49.710	49.724	3.254	2.240	6.544	61.000
231	11.550	37.893	50.510	50.485	2.962	-3.970	5.867	58.100
232	11.600	38.057	59.750	59.717	1.787	-5.340	2.992	62.300
233	11.650	38.221	72.340	72.306	1.063	-5.520	1.470	64.300
234	11.700	38.385	98.040	98.004	0.889	-5.840	0.907	59.700
235	11.750	38.549	114.830	114.785	1.697	-7.180	1.478	54.600
236	11.800	38.713	80.070	80.014	2.260	-8.990	2.825	56.200
237	11.850	38.877	42.250	42.184	2.217	-10.610	5.256	44.800
238	11.900	39.042	29.490	29.422	1.423	-10.840	4.836	40.600
239	11.950	39.206	40.050	40.025	1.172	-3.950	2.928	35.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	27.220	27.213	1.086	-1.120	3.991	29.700
241	12.050	39.534	19.300	19.289	0.732	-1.730	3.795	25.700
242	12.100	39.698	24.290	24.282	1.127	-1.280	4.641	24.300
243	12.150	39.862	73.080	73.071	2.431	-1.450	3.327	28.000
244	12.200	40.026	106.830	106.833	3.233	0.420	3.026	22.400
245	12.250	40.190	81.500	81.502	3.611	0.390	4.431	21.100
246	12.300	40.354	48.160	48.164	1.695	0.610	3.519	26.900
247	12.350	40.518	108.080	108.086	0.764	1.020	0.707	23.600
248	12.400	40.682	95.050	95.052	0.424	0.280	0.446	13.300
249	12.450	40.846	106.750	106.756	0.580	0.960	0.543	14.200
250	12.500	41.010	116.970	116.971	2.034	0.170	1.739	16.900
251	12.550	41.174	75.090	75.090	2.084	-0.020	2.775	11.400
252	12.600	41.338	39.020	39.010	1.550	-1.550	3.973	14.800
253	12.650	41.502	31.180	31.181	0.485	0.160	1.555	16.300
254	12.700	41.666	19.260	19.269	0.342	1.450	1.775	9.800
255	12.750	41.830	33.340	33.339	0.843	-0.130	2.529	16.300
256	12.800	41.994	57.340	57.350	1.138	1.650	1.984	15.500
257	12.850	42.158	53.490	53.496	1.601	1.000	2.993	19.200
258	12.900	42.322	51.140	51.147	1.729	1.080	3.380	16.800
259	12.950	42.486	38.820	38.831	1.549	1.690	3.989	21.300
260	13.000	42.650	35.660	35.676	1.118	2.610	3.134	24.300
261	13.050	42.814	44.020	44.037	0.867	2.700	1.969	27.900
262	13.100	42.978	56.980	56.996	0.595	2.520	1.044	35.200
263	13.150	43.143	53.340	53.355	0.668	2.340	1.252	35.600
264	13.200	43.307	70.060	70.075	0.753	2.330	1.075	40.700
265	13.250	43.471	55.160	55.177	0.734	2.780	1.330	41.100
266	13.300	43.635	43.210	43.227	0.747	2.660	1.728	41.900
267	13.350	43.799	31.070	31.086	0.699	2.600	2.249	37.400
268	13.400	43.963	42.310	42.330	0.553	3.240	1.306	31.900
269	13.450	44.127	69.480	69.495	1.138	2.390	1.638	34.800
270	13.500	44.291	43.270	43.285	1.231	2.460	2.844	28.300
271	13.550	44.455	14.290	14.306	1.223	2.520	8.549	29.000
272	13.600	44.619	33.790	33.805	1.503	2.470	4.446	32.900
273	13.650	44.783	35.470	35.484	1.873	2.210	5.278	31.500
274	13.700	44.947	118.570	118.585	1.756	2.380	1.481	32.400
275	13.750	45.111	143.160	143.177	1.972	2.710	1.377	32.800
276	13.800	45.275	81.190	81.207	2.499	2.750	3.077	35.100
277	13.850	45.439	41.250	41.270	2.691	3.130	6.521	32.400
278	13.900	45.603	82.070	82.095	1.388	3.990	1.691	45.700
279	13.950	45.767	90.740	90.764	1.335	3.850	1.471	45.200
280	14.000	45.931	94.890	94.916	1.189	4.170	1.253	49.800
281	14.050	46.095	79.800	79.825	0.998	4.030	1.250	55.100
282	14.100	46.259	61.730	61.754	0.829	3.810	1.342	49.100
283	14.150	46.423	50.190	50.213	0.520	3.690	1.036	51.100
284	14.200	46.587	33.360	33.379	0.476	3.120	1.426	44.600
285	14.250	46.751	35.490	35.506	0.548	2.630	1.543	38.800
286	14.300	46.915	21.670	21.685	0.421	2.330	1.941	35.200
287	14.350	47.079	31.220	31.233	0.401	2.020	1.284	32.500
288	14.400	47.244	33.450	33.462	0.542	1.940	1.620	29.700
289	14.450	47.408	37.080	37.102	1.400	3.480	3.773	41.700
290	14.500	47.572	100.230	100.256	1.690	4.110	1.686	46.500
291	14.550	47.736	111.560	111.591	1.843	4.910	1.652	50.800
292	14.600	47.900	127.720	127.749	1.606	4.660	1.257	56.200
293	14.650	48.064	140.010	140.037	1.458	4.310	1.041	55.000
294	14.700	48.228	140.350	140.377	1.615	4.340	1.150	55.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	146.300	146.327	1.600	4.340	1.093	61.900
296	14.800	48.556	153.690	153.718	1.568	4.470	1.020	59.000
297	14.850	48.720	168.560	168.589	1.547	4.630	0.918	0.000
298	14.900	48.884	202.970	202.999	1.604	4.650	0.790	0.000
299	14.950	49.048	228.840	228.870	1.705	4.740	0.745	0.000
300	15.000	49.212	236.280	236.309	1.718	4.670	0.727	0.000
301	15.050	49.376	245.250	245.280	1.659	4.760	0.676	0.000
302	15.100	49.540	241.380	241.410	1.641	4.830	0.680	0.000
303	15.150	49.704	235.810	235.840	1.700	4.860	0.721	0.000
304	15.200	49.868	226.560	226.592	1.667	5.190	0.736	0.000
305	15.250	50.032	222.410	222.442	1.499	5.110	0.674	0.000
306	15.300	50.196	214.830	214.862	1.390	5.170	0.647	0.000
307	15.350	50.360	208.170	208.203	2.074	5.260	0.996	0.000
308	15.400	50.524	193.700	193.733	2.251	5.220	1.162	0.000
309	15.450	50.688	159.650	159.683	1.880	5.270	1.177	0.000
310	15.500	50.852	154.240	154.273	1.249	5.240	0.810	0.000
311	15.550	51.016	217.740	217.773	0.000	5.350	0.000	0.000
312	15.600	51.180	256.990	257.022	0.000	5.140	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221543
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-5-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	07:28
CPT File:	13-53075_GP5-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722088.114
Northing / Lat:	4294287.652
Elevation:	144.571
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	40.940	40.943	0.056	0.520	0.137	34.400
2	0.100	0.328	74.460	74.463	0.118	0.460	0.158	39.100
3	0.150	0.492	93.300	93.303	0.353	0.560	0.378	45.000
4	0.200	0.656	89.980	89.984	0.647	0.650	0.719	43.900
5	0.250	0.820	82.300	82.304	0.695	0.720	0.844	61.400
6	0.300	0.984	65.880	65.883	0.630	0.510	0.956	69.400
7	0.350	1.148	37.610	37.616	0.604	0.920	1.606	88.100
8	0.400	1.312	29.820	29.825	0.422	0.770	1.415	88.200
9	0.450	1.476	33.410	33.414	0.425	0.610	1.272	88.200
10	0.500	1.640	50.080	50.083	0.592	0.530	1.182	93.000
11	0.550	1.804	72.850	72.853	0.890	0.550	1.222	87.300
12	0.600	1.968	123.300	123.304	1.437	0.650	1.165	76.500
13	0.650	2.133	183.060	183.065	2.492	0.820	1.361	85.500
14	0.700	2.297	211.760	211.766	4.208	0.890	1.987	89.900
15	0.750	2.461	180.900	180.907	5.373	1.110	2.970	79.400
16	0.800	2.625	158.750	158.753	5.520	0.560	3.477	97.100
17	0.850	2.789	156.290	156.287	4.371	-0.550	2.797	77.000
18	0.900	2.953	166.330	166.301	4.004	-4.660	2.408	84.000
19	0.950	3.117	149.420	149.414	3.602	-0.990	2.411	89.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	119.060	119.053	3.613	-1.110	3.035	87.700
21	1.050	3.445	81.880	81.841	3.139	-6.250	3.835	72.800
22	1.100	3.609	86.930	86.879	1.891	-8.230	2.177	78.000
23	1.150	3.773	81.380	81.375	1.098	-0.870	1.349	63.800
24	1.200	3.937	69.600	69.595	0.678	-0.860	0.974	61.700
25	1.250	4.101	56.810	56.804	0.652	-0.940	1.148	69.500
26	1.300	4.265	48.520	48.517	0.611	-0.510	1.259	86.200
27	1.350	4.429	36.900	36.897	0.660	-0.500	1.789	68.100
28	1.400	4.593	27.590	27.585	0.500	-0.830	1.813	67.900
29	1.450	4.757	21.720	21.716	0.420	-0.580	1.934	98.900
30	1.500	4.921	16.200	16.196	0.327	-0.660	2.019	61.400
31	1.550	5.085	11.370	11.367	0.313	-0.460	2.754	64.800
32	1.600	5.249	16.030	16.013	0.222	-2.680	1.386	65.000
33	1.650	5.413	14.470	14.450	0.237	-3.150	1.640	49.900
34	1.700	5.577	12.450	12.423	0.288	-4.250	2.318	47.400
35	1.750	5.741	13.990	13.970	0.195	-3.280	1.396	40.300
36	1.800	5.905	16.650	16.635	0.018	-2.380	0.108	25.100
37	1.850	6.069	12.110	12.104	0.013	-0.890	0.107	25.200
38	1.900	6.234	24.170	24.167	0.023	-0.500	0.095	22.000
39	1.950	6.398	26.100	26.101	0.219	0.140	0.839	22.600
40	2.000	6.562	35.270	35.275	0.507	0.880	1.437	17.100
41	2.050	6.726	33.740	33.744	0.460	0.630	1.363	10.500
42	2.100	6.890	21.040	21.031	0.418	-1.390	1.988	13.700
43	2.150	7.054	13.390	13.381	0.299	-1.470	2.235	17.100
44	2.200	7.218	23.710	23.710	0.293	0.030	1.236	54.100
45	2.250	7.382	27.430	27.429	0.460	-0.100	1.677	16.500
46	2.300	7.546	25.650	25.656	0.606	1.010	2.362	17.300
47	2.350	7.710	14.740	14.727	0.570	-2.110	3.870	17.500
48	2.400	7.874	12.050	12.045	0.601	-0.870	4.990	17.500
49	2.450	8.038	16.910	16.903	0.710	-1.150	4.200	23.200
50	2.500	8.202	18.010	18.007	0.452	-0.470	2.510	30.800
51	2.550	8.366	12.860	12.853	0.842	-1.070	6.551	31.100
52	2.600	8.530	17.340	17.337	0.850	-0.430	4.903	42.300
53	2.650	8.694	7.970	7.962	0.378	-1.260	4.747	49.700
54	2.700	8.858	10.220	10.221	0.363	0.210	3.551	45.700
55	2.750	9.022	36.270	36.253	0.363	-2.710	1.001	41.000
56	2.800	9.186	47.420	47.395	0.647	-4.070	1.365	39.500
57	2.850	9.350	64.780	64.779	1.071	-0.240	1.653	36.300
58	2.900	9.514	57.910	57.907	1.328	-0.420	2.293	27.400
59	2.950	9.678	82.980	82.981	1.934	0.220	2.331	18.300
60	3.000	9.842	109.160	109.157	2.103	-0.550	1.927	17.100
61	3.050	10.006	34.610	34.609	1.835	-0.200	5.302	20.600
62	3.100	10.170	14.410	14.416	1.036	0.890	7.187	25.700
63	3.150	10.335	17.230	17.241	0.827	1.790	4.797	33.700
64	3.200	10.499	22.270	22.269	0.849	-0.100	3.812	34.500
65	3.250	10.663	22.450	22.457	0.745	1.170	3.317	56.600
66	3.300	10.827	58.200	58.215	0.922	2.460	1.584	58.900
67	3.350	10.991	105.640	105.641	1.119	0.200	1.059	71.900
68	3.400	11.155	103.480	103.475	0.984	-0.860	0.951	85.500
69	3.450	11.319	96.740	96.729	1.215	-1.740	1.256	96.700
70	3.500	11.483	92.000	91.993	1.376	-1.110	1.496	80.500
71	3.550	11.647	72.490	72.479	1.614	-1.750	2.227	84.100
72	3.600	11.811	48.510	48.483	1.754	-4.400	3.618	92.300
73	3.650	11.975	35.530	35.492	1.428	-6.040	4.023	83.100
74	3.700	12.139	29.190	29.152	1.034	-6.140	3.547	86.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	19.970	19.930	0.738	-6.440	3.703	88.000
76	3.800	12.467	18.540	18.499	0.701	-6.620	3.789	79.400
77	3.850	12.631	22.420	22.464	0.556	6.990	2.475	83.100
78	3.900	12.795	17.710	17.756	0.506	7.440	2.850	76.600
79	3.950	12.959	14.270	14.327	0.601	9.100	4.195	65.100
80	4.000	13.123	13.680	13.740	0.200	9.660	1.456	66.300
81	4.050	13.287	41.520	41.524	0.418	0.610	1.007	53.000
82	4.100	13.451	30.790	30.792	0.745	0.260	2.419	41.800
83	4.150	13.615	29.790	29.789	1.041	-0.150	3.495	38.200
84	4.200	13.779	26.350	26.352	1.013	0.320	3.844	34.500
85	4.250	13.943	11.210	11.215	0.668	0.790	5.956	35.400
86	4.300	14.107	7.500	7.501	0.307	0.180	4.093	47.800
87	4.350	14.271	3.830	3.827	0.544	-0.530	14.216	28.900
88	4.400	14.436	161.440	161.440	2.418	0.070	1.498	38.800
89	4.450	14.600	142.810	142.826	2.531	2.570	1.772	45.300
90	4.500	14.764	41.990	41.995	2.620	0.730	6.239	34.700
91	4.550	14.928	63.940	63.937	1.473	-0.510	2.304	29.400
92	4.600	15.092	12.610	12.612	1.087	0.340	8.619	23.200
93	4.650	15.256	21.900	21.898	1.156	-0.350	5.279	23.300
94	4.700	15.420	20.640	20.643	0.737	0.460	3.570	21.300
95	4.750	15.584	10.840	10.846	0.888	0.960	8.187	21.900
96	4.800	15.748	23.770	23.773	0.816	0.510	3.432	19.500
97	4.850	15.912	20.570	20.573	0.793	0.520	3.855	13.700
98	4.900	16.076	21.050	21.052	0.780	0.350	3.705	15.500
99	4.950	16.240	8.860	8.869	0.527	1.410	5.942	20.700
100	5.000	16.404	5.210	5.248	0.439	6.090	8.365	12.000
101	5.050	16.568	11.710	11.773	0.318	10.080	2.701	19.300
102	5.100	16.732	22.790	22.817	0.848	4.360	3.716	23.500
103	5.150	16.896	44.310	44.325	1.267	2.400	2.858	25.800
104	5.200	17.060	26.100	26.115	1.202	2.410	4.603	37.100
105	5.250	17.224	23.910	23.928	1.055	2.900	4.409	47.400
106	5.300	17.388	19.070	19.088	0.479	2.910	2.509	67.300
107	5.350	17.552	14.590	14.616	0.439	4.210	3.003	67.000
108	5.400	17.716	16.300	16.289	0.298	-1.790	1.829	88.400
109	5.450	17.880	18.060	18.063	0.416	0.500	2.303	92.600
110	5.500	18.044	22.790	22.809	0.447	3.100	1.960	95.100
111	5.550	18.208	18.050	18.062	0.455	1.960	2.519	99.300
112	5.600	18.372	12.800	12.810	0.416	1.610	3.247	93.800
113	5.650	18.537	11.510	11.521	0.352	1.770	3.055	94.200
114	5.700	18.701	14.890	14.902	0.379	1.980	2.543	95.700
115	5.750	18.865	16.130	16.140	0.487	1.550	3.017	100.200
116	5.800	19.029	15.610	15.615	0.495	0.770	3.170	105.500
117	5.850	19.193	11.700	11.704	0.446	0.690	3.811	94.400
118	5.900	19.357	12.520	12.525	0.470	0.860	3.752	93.600
119	5.950	19.521	12.410	12.416	0.537	0.970	4.325	93.300
120	6.000	19.685	39.110	39.110	1.088	0.070	2.782	93.100
121	6.050	19.849	13.690	13.664	0.904	-4.120	6.616	88.800
122	6.100	20.013	12.260	12.234	0.858	-4.120	7.013	82.900
123	6.150	20.177	15.430	15.405	0.422	-4.070	2.739	80.700
124	6.200	20.341	15.190	15.167	0.462	-3.660	3.046	90.200
125	6.250	20.505	24.090	24.067	0.669	-3.720	2.780	77.300
126	6.300	20.669	32.300	32.277	0.832	-3.670	2.578	81.500
127	6.350	20.833	33.010	32.987	1.098	-3.750	3.329	74.400
128	6.400	20.997	34.960	34.936	0.674	-3.910	1.929	75.100
129	6.450	21.161	45.230	45.194	0.413	-5.730	0.914	78.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	32.130	32.025	0.950	-16.780	2.966	58.200
131	6.550	21.489	32.770	32.671	1.101	-15.910	3.370	79.800
132	6.600	21.653	14.500	14.402	1.160	-15.730	8.055	49.000
133	6.650	21.817	34.450	34.353	0.855	-15.520	2.489	40.300
134	6.700	21.981	80.500	80.548	1.379	7.620	1.712	34.400
135	6.750	22.145	65.970	66.012	1.946	6.680	2.948	25.100
136	6.800	22.309	72.710	72.749	2.432	6.190	3.343	31.000
137	6.850	22.473	79.390	79.423	2.138	5.250	2.692	28.400
138	6.900	22.638	66.720	66.754	2.119	5.510	3.174	26.900
139	6.950	22.802	59.880	59.914	1.568	5.370	2.617	27.500
140	7.000	22.966	55.340	55.372	1.366	5.090	2.467	21.700
141	7.050	23.130	55.280	55.308	1.250	4.420	2.260	26.400
142	7.100	23.294	29.630	29.652	1.062	3.470	3.582	31.500
143	7.150	23.458	18.340	18.362	0.771	3.470	4.199	35.100
144	7.200	23.622	30.390	30.409	1.036	3.110	3.407	47.600
145	7.250	23.786	41.440	41.451	1.067	1.750	2.574	44.400
146	7.300	23.950	46.430	46.439	0.839	1.500	1.807	47.900
147	7.350	24.114	29.990	30.001	0.893	1.740	2.977	56.400
148	7.400	24.278	38.560	38.565	0.746	0.790	1.934	67.400
149	7.450	24.442	27.600	27.603	0.737	0.420	2.670	75.500
150	7.500	24.606	14.880	14.900	0.638	3.190	4.282	68.900
151	7.550	24.770	15.500	15.518	0.395	2.870	2.545	74.100
152	7.600	24.934	16.020	16.036	0.283	2.610	1.765	80.600
153	7.650	25.098	29.590	29.579	0.498	-1.810	1.684	86.600
154	7.700	25.262	24.970	24.995	0.255	4.030	1.020	96.700
155	7.750	25.426	10.590	10.612	0.463	3.480	4.363	116.500
156	7.800	25.590	11.790	11.819	0.420	4.660	3.554	120.000
157	7.850	25.754	16.740	16.777	0.688	5.880	4.101	115.500
158	7.900	25.918	34.680	34.720	1.033	6.430	2.975	143.400
159	7.950	26.082	45.840	45.878	1.169	6.070	2.548	152.200
160	8.000	26.246	64.530	64.542	1.603	1.870	2.484	216.200
161	8.050	26.410	65.890	65.901	1.860	1.790	2.822	270.600
162	8.100	26.574	85.480	85.492	2.172	1.990	2.541	299.400
163	8.150	26.739	96.630	96.650	2.353	3.170	2.435	388.000
164	8.200	26.903	80.190	80.215	2.147	4.000	2.677	444.100
165	8.250	27.067	71.310	71.336	2.044	4.210	2.865	534.600
166	8.300	27.231	96.090	96.116	1.896	4.140	1.973	554.400
167	8.350	27.395	75.310	75.337	2.652	4.380	3.520	697.700
168	8.400	27.559	89.060	89.087	2.422	4.250	2.719	991.900
169	8.450	27.723	75.250	75.300	2.911	7.950	3.866	1368.700
170	8.500	27.887	87.400	87.457	2.946	9.100	3.369	1927.800
171	8.550	28.051	100.370	100.426	2.688	8.980	2.677	2841.300
172	8.600	28.215	122.670	122.724	2.630	8.570	2.143	3889.100
173	8.650	28.379	63.710	63.759	1.984	7.880	3.112	4999.100
174	8.700	28.543	41.610	41.659	1.999	7.850	4.798	6283.100
175	8.750	28.707	78.620	78.668	1.618	7.690	2.057	7911.200
176	8.800	28.871	19.450	19.500	1.177	7.970	6.036	9003.100
177	8.850	29.035	11.400	11.450	0.716	8.070	6.253	9962.500
178	8.900	29.199	12.610	12.661	0.542	8.190	4.281	10496.000
179	8.950	29.363	14.290	14.343	0.405	8.420	2.824	10527.700
180	9.000	29.527	19.740	19.793	0.474	8.530	2.395	9934.000
181	9.050	29.691	23.880	23.929	0.488	7.890	2.039	8838.500
182	9.100	29.855	15.130	15.180	0.443	7.980	2.918	7633.800
183	9.150	30.019	14.220	14.270	0.329	8.000	2.306	6251.700
184	9.200	30.183	14.140	14.190	0.375	8.060	2.643	4714.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	26.480	26.530	0.420	7.950	1.583	3054.800
186	9.300	30.511	18.180	18.231	0.572	8.140	3.138	1892.800
187	9.350	30.675	23.540	23.592	0.725	8.340	3.073	1224.000
188	9.400	30.840	47.230	47.282	1.064	8.360	2.250	839.900
189	9.450	31.004	58.020	58.075	1.448	8.760	2.493	624.500
190	9.500	31.168	42.730	42.783	1.682	8.490	3.931	420.300
191	9.550	31.332	47.060	47.110	1.408	8.030	2.989	238.500
192	9.600	31.496	63.350	63.405	1.316	8.870	2.076	184.500
193	9.650	31.660	44.590	44.637	1.271	7.500	2.847	144.700
194	9.700	31.824	33.340	33.388	1.410	7.670	4.223	121.200
195	9.750	31.988	27.530	27.582	1.103	8.250	3.999	111.100
196	9.800	32.152	38.440	38.487	0.979	7.540	2.544	98.900
197	9.850	32.316	28.510	28.560	0.704	7.940	2.465	91.600
198	9.900	32.480	23.370	23.426	0.654	8.980	2.792	87.600
199	9.950	32.644	30.340	30.394	0.727	8.680	2.392	80.700
200	10.000	32.808	31.860	31.911	1.002	8.160	3.140	63.900
201	10.050	32.972	23.320	23.370	0.950	8.040	4.065	50.400
202	10.100	33.136	29.730	29.779	0.963	7.790	3.234	29.500
203	10.150	33.300	27.640	27.689	0.806	7.770	2.911	27.700
204	10.200	33.464	34.550	34.600	1.132	8.020	3.272	23.600
205	10.250	33.628	38.600	38.649	1.225	7.900	3.170	22.200
206	10.300	33.792	42.460	42.510	1.017	7.970	2.392	20.200
207	10.350	33.956	42.700	42.750	1.342	8.040	3.139	12.300
208	10.400	34.120	38.740	38.788	1.134	7.670	2.924	11.200
209	10.450	34.284	47.700	47.749	1.367	7.820	2.863	13.200
210	10.500	34.448	50.010	50.068	1.687	9.270	3.369	10.600
211	10.550	34.612	62.610	62.671	2.049	9.720	3.269	11.800
212	10.600	34.776	30.550	30.612	1.453	9.970	4.746	10.700
213	10.650	34.941	36.470	36.534	1.193	10.250	3.265	17.000
214	10.700	35.105	33.040	33.102	1.589	9.980	4.800	16.200
215	10.750	35.269	37.990	38.053	1.433	10.170	3.766	12.600
216	10.800	35.433	45.580	45.645	1.028	10.350	2.252	13.500
217	10.850	35.597	33.370	33.431	1.109	9.830	3.317	14.300
218	10.900	35.761	28.960	29.021	0.881	9.710	3.036	11.700
219	10.950	35.925	36.240	36.300	1.261	9.600	3.474	13.700
220	11.000	36.089	50.980	51.039	1.592	9.510	3.119	14.800
221	11.050	36.253	64.730	64.789	1.880	9.420	2.902	16.600
222	11.100	36.417	48.280	48.342	1.964	9.900	4.063	12.000
223	11.150	36.581	58.450	58.510	2.137	9.660	3.652	14.400
224	11.200	36.745	61.460	61.516	1.884	9.040	3.063	17.400
225	11.250	36.909	46.730	46.802	1.919	11.520	4.100	18.800
226	11.300	37.073	55.980	56.017	1.943	5.950	3.469	18.600
227	11.350	37.237	53.780	53.803	1.959	3.730	3.641	20.800
228	11.400	37.401	56.140	56.164	1.768	3.830	3.148	19.000
229	11.450	37.565	63.760	63.783	1.530	3.730	2.399	21.700
230	11.500	37.729	79.490	79.527	1.613	5.900	2.028	20.400
231	11.550	37.893	94.080	94.117	1.693	5.980	1.799	18.700
232	11.600	38.057	72.290	72.327	1.909	6.000	2.639	19.000
233	11.650	38.221	59.860	59.898	2.069	6.110	3.454	16.600
234	11.700	38.385	72.230	72.269	1.585	6.210	2.193	20.000
235	11.750	38.549	184.280	184.317	1.801	5.930	0.977	19.600
236	11.800	38.713	59.140	59.181	2.217	6.510	3.746	27.000
237	11.850	38.877	85.030	85.078	2.586	7.650	3.040	38.100
238	11.900	39.042	67.930	67.979	2.383	7.790	3.506	47.000
239	11.950	39.206	48.190	48.254	2.630	10.220	5.450	52.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	82.880	82.944	2.318	10.240	2.795	48.300
241	12.050	39.534	68.570	68.628	1.724	9.370	2.512	47.600
242	12.100	39.698	52.020	52.076	0.987	9.030	1.895	43.000
243	12.150	39.862	59.970	60.026	0.762	8.960	1.269	34.300
244	12.200	40.026	76.990	77.045	0.973	8.770	1.263	28.200
245	12.250	40.190	40.500	40.559	1.235	9.520	3.045	25.200
246	12.300	40.354	49.090	49.147	1.306	9.090	2.657	29.400
247	12.350	40.518	27.040	27.096	1.256	9.010	4.635	44.300
248	12.400	40.682	24.680	24.737	1.023	9.070	4.136	61.300
249	12.450	40.846	18.990	19.048	0.750	9.370	3.937	62.100
250	12.500	41.010	26.510	26.571	0.659	9.840	2.480	75.000
251	12.550	41.174	26.560	26.621	0.762	9.770	2.862	71.300
252	12.600	41.338	29.310	29.373	1.007	10.030	3.428	75.700
253	12.650	41.502	31.200	31.263	1.470	10.140	4.702	63.200
254	12.700	41.666	74.450	74.515	2.118	10.390	2.842	72.900
255	12.750	41.830	65.030	65.094	2.402	10.330	3.690	0.000
256	12.800	41.994	85.290	85.356	2.274	10.590	2.664	0.000
257	12.850	42.158	128.710	128.777	1.915	10.660	1.487	0.000
258	12.900	42.322	137.240	137.306	2.219	10.530	1.616	0.000
259	12.950	42.486	141.560	141.625	2.405	10.360	1.698	0.000
260	13.000	42.650	143.290	143.353	3.043	10.110	2.123	0.000
261	13.050	42.814	147.110	147.173	3.205	10.100	2.178	0.000
262	13.100	42.978	148.300	148.363	4.328	10.140	2.917	0.000
263	13.150	43.143	126.680	126.749	5.145	11.000	4.059	0.000
264	13.200	43.307	106.880	106.954	5.774	11.900	5.399	0.000
265	13.250	43.471	127.030	127.107	6.183	12.360	4.864	0.000
266	13.300	43.635	136.180	136.263	5.474	13.320	4.017	0.000
267	13.350	43.799	146.010	146.119	5.203	17.490	3.561	0.000
268	13.400	43.963	78.930	79.043	3.665	18.080	4.637	0.000
269	13.450	44.127	38.680	38.787	0.000	17.150	0.000	0.000
270	13.500	44.291	44.520	44.629	0.000	17.430	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221546
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-5-4A
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	09:21
CPT File:	13-53075_GP5-4A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722095.640
Northing / Lat:	4294271.440
Elevation:	145.570
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	8.830	8.834	0.039	0.690	0.441	30.500
2	0.100	0.328	31.260	31.264	0.176	0.720	0.563	39.700
3	0.150	0.492	40.600	40.605	0.137	0.830	0.337	53.600
4	0.200	0.656	41.600	41.606	0.235	0.890	0.565	63.900
5	0.250	0.820	57.220	57.225	0.292	0.860	0.510	69.000
6	0.300	0.984	35.100	35.108	0.395	1.360	1.125	87.400
7	0.350	1.148	27.100	27.108	0.557	1.330	2.055	93.100
8	0.400	1.312	29.670	29.678	0.654	1.300	2.204	83.400
9	0.450	1.476	34.860	34.868	0.538	1.340	1.543	90.200
10	0.500	1.640	46.020	46.028	0.583	1.270	1.267	83.600
11	0.550	1.804	66.680	66.691	1.141	1.750	1.711	62.000
12	0.600	1.968	112.310	112.321	2.717	1.730	2.419	65.200
13	0.650	2.133	179.350	179.361	4.296	1.810	2.395	51.500
14	0.700	2.297	192.910	192.924	3.925	2.180	2.034	46.700
15	0.750	2.461	233.800	233.814	3.126	2.190	1.337	38.000
16	0.800	2.625	236.510	236.524	2.028	2.230	0.857	40.900
17	0.850	2.789	157.800	157.814	2.458	2.200	1.558	43.900
18	0.900	2.953	113.460	113.475	2.348	2.340	2.069	45.000
19	0.950	3.117	72.630	72.645	2.230	2.370	3.070	50.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	44.010	44.025	1.974	2.380	4.484	53.400
21	1.050	3.445	29.450	29.467	1.597	2.670	5.420	50.300
22	1.100	3.609	20.390	20.405	1.039	2.470	5.092	39.400
23	1.150	3.773	15.400	15.415	0.610	2.480	3.957	37.300
24	1.200	3.937	9.690	9.705	0.324	2.390	3.339	30.800
25	1.250	4.101	13.030	13.044	0.264	2.280	2.024	24.800
26	1.300	4.265	12.030	12.043	0.375	2.140	3.114	18.900
27	1.350	4.429	23.490	23.503	0.421	2.060	1.791	20.300
28	1.400	4.593	11.790	11.804	0.359	2.250	3.041	20.400
29	1.450	4.757	18.480	18.492	0.547	1.990	2.958	15.900
30	1.500	4.921	29.400	29.412	0.517	1.890	1.758	21.300
31	1.550	5.085	9.720	9.732	0.485	1.920	4.984	26.900
32	1.600	5.249	14.920	14.931	0.159	1.710	1.065	22.300
33	1.650	5.413	23.010	23.019	0.058	1.420	0.252	22.500
34	1.700	5.577	15.990	15.995	0.037	0.860	0.231	24.100
35	1.750	5.741	10.880	10.885	0.270	0.850	2.480	22.800
36	1.800	5.905	19.640	19.651	0.237	1.790	1.206	23.900
37	1.850	6.069	25.920	25.932	0.253	1.990	0.976	27.200
38	1.900	6.234	35.630	35.648	0.448	2.880	1.257	28.400
39	1.950	6.398	22.860	22.875	0.387	2.400	1.692	33.200
40	2.000	6.562	18.120	18.134	0.427	2.290	2.355	33.200
41	2.050	6.726	26.980	26.996	0.273	2.600	1.011	35.900
42	2.100	6.890	17.110	17.126	0.269	2.540	1.571	33.600
43	2.150	7.054	10.080	10.094	0.267	2.180	2.645	39.300
44	2.200	7.218	5.880	5.895	0.285	2.350	4.835	39.600
45	2.250	7.382	6.170	6.182	0.568	1.990	9.187	42.500
46	2.300	7.546	39.320	39.341	0.534	3.310	1.357	44.800
47	2.350	7.710	11.500	11.512	0.578	1.950	5.021	41.100
48	2.400	7.874	13.730	13.743	0.208	2.160	1.513	47.800
49	2.450	8.038	12.430	12.440	0.231	1.570	1.857	48.000
50	2.500	8.202	7.400	7.416	0.261	2.510	3.520	48.500
51	2.550	8.366	12.960	12.968	0.257	1.250	1.982	43.600
52	2.600	8.530	15.740	15.752	0.176	1.920	1.117	47.200
53	2.650	8.694	79.250	79.263	0.187	2.030	0.236	39.200
54	2.700	8.858	170.410	170.424	0.138	2.240	0.081	38.700
55	2.750	9.022	166.950	166.971	0.004	3.310	0.002	51.600
56	2.800	9.186	93.930	93.958	0.002	4.420	0.002	60.100
57	2.850	9.350	87.760	87.787	0.001	4.390	0.001	68.400
58	2.900	9.514	111.350	111.379	0.031	4.580	0.028	71.800
59	2.950	9.678	130.630	130.661	0.067	5.020	0.051	83.000
60	3.000	9.842	142.650	142.684	0.008	5.430	0.006	89.400
61	3.050	10.006	132.490	132.526	0.092	5.750	0.069	90.400
62	3.100	10.170	133.630	133.667	0.086	5.870	0.064	87.600
63	3.150	10.335	124.390	124.427	0.337	5.900	0.271	92.300
64	3.200	10.499	118.670	118.708	0.060	6.140	0.051	88.400
65	3.250	10.663	109.900	109.940	0.002	6.400	0.002	97.700
66	3.300	10.827	96.150	96.190	0.005	6.350	0.005	88.900
67	3.350	10.991	84.190	84.229	0.108	6.310	0.128	103.300
68	3.400	11.155	83.820	83.859	0.012	6.210	0.014	105.000
69	3.450	11.319	92.910	92.949	0.014	6.190	0.015	119.500
70	3.500	11.483	80.920	80.958	0.014	6.120	0.017	132.800
71	3.550	11.647	66.560	66.598	0.014	6.020	0.021	145.000
72	3.600	11.811	60.400	60.437	0.014	5.990	0.023	147.000
73	3.650	11.975	60.380	60.417	0.014	5.920	0.023	135.100
74	3.700	12.139	59.190	59.228	0.014	6.010	0.024	122.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	59.490	59.527	0.013	5.980	0.022	117.200
76	3.800	12.467	52.300	52.338	0.014	6.100	0.027	103.900
77	3.850	12.631	48.600	48.637	0.014	5.990	0.029	75.400
78	3.900	12.795	42.770	42.807	0.012	5.960	0.028	64.700
79	3.950	12.959	40.850	40.888	0.014	6.030	0.034	47.400
80	4.000	13.123	41.040	41.078	0.013	6.040	0.032	39.900
81	4.050	13.287	64.010	64.048	0.012	6.010	0.019	19.500
82	4.100	13.451	47.660	47.696	0.012	5.800	0.025	18.400
83	4.150	13.615	59.720	59.755	0.112	5.580	0.187	15.400
84	4.200	13.779	88.560	88.595	0.476	5.670	0.537	16.300
85	4.250	13.943	146.210	146.247	0.848	5.860	0.580	10.900
86	4.300	14.107	143.890	143.931	0.771	6.520	0.536	12.200
87	4.350	14.271	148.480	148.520	0.910	6.330	0.613	10.900
88	4.400	14.436	188.520	188.554	0.614	5.470	0.326	8.000
89	4.450	14.600	172.250	172.285	1.579	5.660	0.917	13.700
90	4.500	14.764	99.510	99.545	1.613	5.610	1.620	10.700
91	4.550	14.928	131.970	131.997	0.444	4.390	0.336	13.200
92	4.600	15.092	135.130	135.159	0.647	4.580	0.479	11.200
93	4.650	15.256	171.420	171.450	2.156	4.770	1.258	5.800
94	4.700	15.420	115.810	115.839	2.889	4.600	2.494	9.900
95	4.750	15.584	65.900	65.929	2.069	4.620	3.138	15.100
96	4.800	15.748	12.290	12.314	1.484	3.900	12.051	21.600
97	4.850	15.912	21.120	21.146	0.606	4.140	2.866	29.500
98	4.900	16.076	34.750	34.780	0.836	4.770	2.404	34.000
99	4.950	16.240	111.900	111.930	1.111	4.860	0.993	34.200
100	5.000	16.404	86.980	87.009	1.667	4.640	1.916	42.100
101	5.050	16.568	90.790	90.820	1.860	4.780	2.048	48.300
102	5.100	16.732	73.950	73.979	1.678	4.670	2.268	58.700
103	5.150	16.896	58.430	58.458	1.529	4.430	2.616	53.300
104	5.200	17.060	50.560	50.587	1.032	4.330	2.040	51.800
105	5.250	17.224	39.130	39.156	0.719	4.170	1.836	40.600
106	5.300	17.388	7.610	7.636	0.659	4.180	8.630	35.600
107	5.350	17.552	24.720	24.752	0.526	5.140	2.125	40.600
108	5.400	17.716	24.480	24.511	0.726	5.030	2.962	33.200
109	5.450	17.880	25.800	25.828	0.618	4.460	2.393	34.100
110	5.500	18.044	13.050	13.080	0.738	4.880	5.642	22.700
111	5.550	18.208	11.600	11.634	0.872	5.520	7.495	19.400
112	5.600	18.372	18.790	18.818	0.810	4.410	4.304	17.300
113	5.650	18.537	28.840	28.868	0.828	4.500	2.868	12.600
114	5.700	18.701	39.580	39.605	0.734	3.970	1.853	16.800
115	5.750	18.865	24.250	24.276	0.515	4.200	2.121	16.000
116	5.800	19.029	11.230	11.253	0.304	3.720	2.701	15.700
117	5.850	19.193	8.150	8.172	0.255	3.520	3.120	16.900
118	5.900	19.357	11.380	11.403	0.367	3.730	3.218	23.200
119	5.950	19.521	24.770	24.797	0.439	4.350	1.770	31.100
120	6.000	19.685	34.510	34.538	0.698	4.530	2.021	38.800
121	6.050	19.849	26.470	26.495	0.668	3.990	2.521	56.700
122	6.100	20.013	17.530	17.554	0.572	3.810	3.259	61.500
123	6.150	20.177	21.390	21.409	0.610	3.030	2.849	80.900
124	6.200	20.341	40.840	40.866	0.597	4.170	1.461	92.100
125	6.250	20.505	38.690	38.708	0.494	2.870	1.276	86.500
126	6.300	20.669	32.010	32.017	0.463	1.140	1.446	81.200
127	6.350	20.833	24.470	24.470	0.385	-0.060	1.573	71.200
128	6.400	20.997	20.350	20.345	0.332	-0.810	1.632	71.100
129	6.450	21.161	26.790	26.799	0.546	1.450	2.037	84.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	27.680	27.690	0.646	1.570	2.333	90.700
131	6.550	21.489	53.070	53.082	0.918	2.000	1.729	88.600
132	6.600	21.653	77.260	77.273	1.126	2.040	1.457	79.800
133	6.650	21.817	86.640	86.652	1.535	1.940	1.771	87.400
134	6.700	21.981	80.690	80.698	1.789	1.230	2.217	86.500
135	6.750	22.145	66.600	66.600	1.725	-0.010	2.590	95.400
136	6.800	22.309	56.490	56.488	1.549	-0.360	2.742	93.500
137	6.850	22.473	44.320	44.316	1.272	-0.700	2.870	89.000
138	6.900	22.638	33.950	33.944	0.990	-1.040	2.917	89.500
139	6.950	22.802	26.060	26.052	0.768	-1.270	2.948	80.900
140	7.000	22.966	19.830	19.821	0.710	-1.480	3.582	71.400
141	7.050	23.130	18.590	18.579	0.551	-1.730	2.966	62.700
142	7.100	23.294	18.230	18.219	0.497	-1.700	2.728	54.900
143	7.150	23.458	18.380	18.369	1.071	-1.730	5.830	45.000
144	7.200	23.622	91.910	91.900	1.599	-1.580	1.740	48.400
145	7.250	23.786	29.420	29.431	1.670	1.700	5.674	45.000
146	7.300	23.950	16.540	16.552	1.186	1.880	7.165	51.300
147	7.350	24.114	15.110	15.127	0.539	2.720	3.563	43.600
148	7.400	24.278	12.360	12.381	0.689	3.440	5.565	43.900
149	7.450	24.442	20.360	20.385	0.731	4.050	3.586	42.700
150	7.500	24.606	39.280	39.301	0.872	3.340	2.219	53.000
151	7.550	24.770	47.240	47.264	1.415	3.880	2.994	52.700
152	7.600	24.934	70.980	70.977	1.838	-0.470	2.590	55.800
153	7.650	25.098	42.200	42.191	2.019	-1.440	4.785	60.800
154	7.700	25.262	29.380	29.374	1.846	-0.920	6.284	66.300
155	7.750	25.426	33.720	33.716	1.294	-0.720	3.838	64.400
156	7.800	25.590	24.290	24.286	1.136	-0.580	4.678	64.300
157	7.850	25.754	28.470	28.468	1.101	-0.300	3.867	63.100
158	7.900	25.918	40.030	40.032	0.894	0.320	2.233	53.800
159	7.950	26.082	22.320	22.321	0.948	0.240	4.247	53.500
160	8.000	26.246	50.010	50.013	1.042	0.430	2.083	55.400
161	8.050	26.410	74.040	74.041	0.812	0.150	1.097	47.200
162	8.100	26.574	65.310	65.309	1.002	-0.230	1.534	40.400
163	8.150	26.739	62.310	62.310	0.847	-0.030	1.359	42.400
164	8.200	26.903	51.620	51.619	1.040	-0.100	2.015	37.700
165	8.250	27.067	46.440	46.440	0.724	-0.010	1.559	44.200
166	8.300	27.231	32.770	32.771	0.755	0.210	2.304	33.000
167	8.350	27.395	27.230	27.238	0.564	1.240	2.071	23.300
168	8.400	27.559	27.470	27.479	0.434	1.520	1.579	30.600
169	8.450	27.723	46.330	46.340	1.162	1.550	2.508	33.800
170	8.500	27.887	55.800	55.806	1.432	0.920	2.566	36.600
171	8.550	28.051	56.760	56.751	1.533	-1.390	2.701	50.700
172	8.600	28.215	34.400	34.403	1.615	0.500	4.694	61.100
173	8.650	28.379	17.970	17.974	0.919	0.720	5.113	53.900
174	8.700	28.543	30.870	30.878	0.357	1.290	1.156	56.300
175	8.750	28.707	161.740	161.746	1.794	0.980	1.109	60.500
176	8.800	28.871	172.690	172.698	2.001	1.250	1.159	76.400
177	8.850	29.035	29.030	29.041	2.083	1.760	7.173	76.800
178	8.900	29.199	26.480	26.492	0.839	1.970	3.167	72.500
179	8.950	29.363	22.790	22.795	0.632	0.860	2.772	57.000
180	9.000	29.527	32.850	32.905	0.696	8.790	2.115	56.600
181	9.050	29.691	27.490	27.548	0.638	9.350	2.316	48.900
182	9.100	29.855	36.070	36.127	0.886	9.130	2.452	48.000
183	9.150	30.019	61.610	61.652	1.038	6.680	1.684	52.300
184	9.200	30.183	46.830	46.854	0.990	3.830	2.113	68.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	48.560	48.579	1.163	3.020	2.394	108.700
186	9.300	30.511	44.850	44.870	1.428	3.180	3.183	122.300
187	9.350	30.675	85.940	85.959	1.829	2.990	2.128	98.300
188	9.400	30.840	67.070	67.093	2.182	3.730	3.252	107.100
189	9.450	31.004	62.150	62.173	2.549	3.710	4.100	86.500
190	9.500	31.168	105.380	105.406	3.543	4.090	3.361	60.500
191	9.550	31.332	109.680	109.711	4.644	5.020	4.233	59.800
192	9.600	31.496	75.780	75.811	4.110	5.010	5.421	57.400
193	9.650	31.660	70.440	70.471	2.503	4.950	3.552	54.600
194	9.700	31.824	142.690	142.721	1.204	5.000	0.844	50.300
195	9.750	31.988	190.810	190.840	1.079	4.820	0.565	42.000
196	9.800	32.152	145.540	145.570	1.147	4.810	0.788	42.300
197	9.850	32.316	134.010	134.039	1.593	4.720	1.188	39.300
198	9.900	32.480	102.550	102.579	2.515	4.580	2.452	39.100
199	9.950	32.644	112.090	112.119	3.208	4.620	2.861	30.400
200	10.000	32.808	126.120	126.150	4.444	4.740	3.523	21.500
201	10.050	32.972	114.310	114.343	5.985	5.320	5.234	14.700
202	10.100	33.136	179.780	179.817	7.768	5.910	4.320	11.200
203	10.150	33.300	204.660	204.701	10.141	6.640	4.954	11.900
204	10.200	33.464	208.610	208.664	9.018	8.730	4.322	14.000
205	10.250	33.628	107.760	107.818	8.248	9.300	7.650	13.000
206	10.300	33.792	120.900	120.959	6.104	9.460	5.046	13.100
207	10.350	33.956	118.980	119.040	4.285	9.560	3.600	11.600
208	10.400	34.120	106.180	106.239	4.140	9.440	3.897	11.500
209	10.450	34.284	115.810	115.869	4.121	9.440	3.557	11.400
210	10.500	34.448	120.010	120.070	4.021	9.620	3.349	13.100
211	10.550	34.612	119.700	119.760	4.548	9.610	3.798	14.600
212	10.600	34.776	106.500	106.559	5.378	9.510	5.047	15.100
213	10.650	34.941	105.630	105.692	5.441	9.900	5.148	20.900
214	10.700	35.105	107.870	107.931	4.406	9.800	4.082	24.600
215	10.750	35.269	60.060	60.112	3.400	8.340	5.656	30.300
216	10.800	35.433	46.690	46.741	2.070	8.150	4.429	21.600
217	10.850	35.597	51.760	51.810	1.888	8.070	3.644	17.100
218	10.900	35.761	59.020	59.072	1.720	8.250	2.912	14.600
219	10.950	35.925	43.600	43.649	1.633	7.900	3.741	18.600
220	11.000	36.089	44.960	45.009	1.353	7.910	3.006	14.300
221	11.050	36.253	28.560	28.609	1.202	7.910	4.201	13.000
222	11.100	36.417	25.690	25.740	1.191	8.000	4.627	10.400
223	11.150	36.581	28.750	28.801	1.561	8.090	5.420	11.100
224	11.200	36.745	74.700	74.750	1.612	8.050	2.157	8.700
225	11.250	36.909	82.500	82.546	1.715	7.440	2.078	10.800
226	11.300	37.073	95.320	95.368	1.786	7.610	1.873	13.000
227	11.350	37.237	75.380	75.427	2.226	7.540	2.951	12.700
228	11.400	37.401	95.260	95.307	2.098	7.600	2.201	19.000
229	11.450	37.565	49.100	49.146	1.840	7.440	3.744	23.900
230	11.500	37.729	43.270	43.316	1.549	7.390	3.576	27.000
231	11.550	37.893	35.000	35.047	1.416	7.490	4.040	27.300
232	11.600	38.057	37.050	37.094	1.687	7.030	4.548	23.000
233	11.650	38.221	62.980	63.025	1.952	7.200	3.097	15.500
234	11.700	38.385	61.370	61.415	2.525	7.260	4.111	19.200
235	11.750	38.549	97.530	97.575	3.045	7.280	3.121	17.500
236	11.800	38.713	111.560	111.606	2.483	7.360	2.225	18.100
237	11.850	38.877	76.130	76.178	3.316	7.700	4.353	23.900
238	11.900	39.042	79.420	79.469	3.623	7.820	4.559	30.100
239	11.950	39.206	71.920	71.970	3.303	7.950	4.589	32.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	84.280	84.330	3.215	8.020	3.812	40.900
241	12.050	39.534	78.860	78.911	2.774	8.100	3.515	49.800
242	12.100	39.698	45.850	45.901	2.396	8.230	5.220	63.600
243	12.150	39.862	40.330	40.382	2.020	8.260	5.002	66.800
244	12.200	40.026	55.920	55.971	1.306	8.220	2.333	72.700
245	12.250	40.190	45.590	45.642	1.250	8.270	2.739	68.200
246	12.300	40.354	44.430	44.481	1.049	8.240	2.358	76.500
247	12.350	40.518	38.600	38.651	0.817	8.130	2.114	73.100
248	12.400	40.682	59.990	60.041	0.904	8.210	1.506	69.000
249	12.450	40.846	59.160	59.211	1.017	8.140	1.718	60.400
250	12.500	41.010	59.650	59.700	1.367	8.080	2.290	53.300
251	12.550	41.174	118.570	118.621	2.466	8.170	2.079	44.000
252	12.600	41.338	141.700	141.750	2.701	7.960	1.905	44.800
253	12.650	41.502	123.290	123.341	2.871	8.230	2.328	41.700
254	12.700	41.666	114.100	114.152	2.905	8.290	2.545	32.400
255	12.750	41.830	93.710	93.761	2.669	8.210	2.847	30.400
256	12.800	41.994	100.750	100.802	2.998	8.300	2.974	22.600
257	12.850	42.158	81.700	81.752	4.288	8.310	5.245	21.000
258	12.900	42.322	86.150	86.201	4.000	8.180	4.640	19.100
259	12.950	42.486	37.780	37.833	3.717	8.480	9.825	14.700
260	13.000	42.650	61.340	61.393	3.017	8.440	4.914	17.200
261	13.050	42.814	50.710	50.759	2.663	7.900	5.246	17.700
262	13.100	42.978	69.520	69.568	2.266	7.680	3.257	12.900
263	13.150	43.143	141.390	141.442	2.965	8.350	2.096	26.300
264	13.200	43.307	202.170	202.224	4.842	8.730	2.394	29.100
265	13.250	43.471	159.690	159.744	4.832	8.710	3.025	35.700
266	13.300	43.635	117.410	117.466	3.402	8.970	2.896	42.400
267	13.350	43.799	137.550	137.606	2.148	8.950	1.561	0.000
268	13.400	43.963	159.400	159.456	2.161	8.980	1.355	0.000
269	13.450	44.127	178.570	178.627	3.472	9.080	1.944	0.000
270	13.500	44.291	183.320	183.377	4.589	9.140	2.502	0.000
271	13.550	44.455	169.790	169.848	4.635	9.220	2.729	0.000
272	13.600	44.619	133.410	133.469	4.769	9.480	3.573	0.000
273	13.650	44.783	156.140	156.199	5.206	9.460	3.333	0.000
274	13.700	44.947	102.490	102.552	4.962	9.990	4.839	0.000
275	13.750	45.111	69.700	69.764	3.775	10.210	5.411	0.000
276	13.800	45.275	65.280	65.344	2.731	10.270	4.179	0.000
277	13.850	45.439	57.870	57.934	2.519	10.300	4.348	0.000
278	13.900	45.603	87.720	87.783	2.293	10.130	2.612	0.000
279	13.950	45.767	64.340	64.402	2.084	9.920	3.236	0.000
280	14.000	45.931	74.800	74.862	1.953	9.890	2.609	0.000
281	14.050	46.095	61.390	61.452	0.000	9.870	0.000	0.000
282	14.100	46.259	138.820	138.882	0.000	9.900	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221544
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-5-4
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	08:59
CPT File:	13-53075_GP5-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722095.613
Northing / Lat:	4294271.306
Elevation:	145.572
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.240	2.240	0.004	0.010	0.179	29.300
2	0.100	0.328	26.190	26.193	0.076	0.450	0.290	33.900
3	0.150	0.492	40.370	40.374	0.154	0.690	0.381	50.600
4	0.200	0.656	38.700	38.704	0.272	0.600	0.703	68.300
5	0.250	0.820	61.180	61.184	0.303	0.680	0.495	67.500
6	0.300	0.984	32.230	32.239	0.516	1.440	1.601	80.600
7	0.350	1.148	27.500	27.509	0.577	1.380	2.098	86.200
8	0.400	1.312	39.780	39.790	0.599	1.610	1.505	88.500
9	0.450	1.476	62.530	62.540	0.993	1.610	1.588	85.700
10	0.500	1.640	73.510	73.520	1.069	1.680	1.454	83.400
11	0.550	1.804	106.210	106.221	1.317	1.810	1.240	58.700
12	0.600	1.968	236.260	236.269	2.241	1.400	0.948	55.400
13	0.650	2.133	266.610	266.620	2.560	1.540	0.960	29.500
14	0.700	2.297	336.070	336.079	2.574	1.400	0.766	38.700
15	0.750	2.461	332.520	332.529	2.304	1.430	0.693	29.400
16	0.800	2.625	296.500	296.509	2.935	1.380	0.990	32.900
17	0.850	2.789	248.560	248.568	2.439	1.320	0.981	36.600
18	0.900	2.953	183.950	183.959	2.180	1.440	1.185	29.700
19	0.950	3.117	141.240	141.251	1.349	1.820	0.955	34.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	93.980	93.991	0.813	1.760	0.865	38.800
21	1.050	3.445	56.710	56.721	0.672	1.760	1.185	45.100
22	1.100	3.609	42.700	42.710	0.713	1.600	1.669	48.100
23	1.150	3.773	26.930	26.940	0.647	1.600	2.402	27.200
24	1.200	3.937	21.590	21.600	0.614	1.570	2.843	30.900
25	1.250	4.101	19.370	19.380	0.680	1.580	3.509	17.100
26	1.300	4.265	19.710	19.724	0.657	2.190	3.331	18.000
27	1.350	4.429	10.430	10.444	0.506	2.170	4.845	16.100
28	1.400	4.593	6.680	6.695	0.348	2.360	5.198	19.600
29	1.450	4.757	4.820	4.833	0.145	2.130	3.000	18.300
30	1.500	4.921	3.950	3.961	0.004	1.840	0.101	13.200
31	1.550	5.085	8.400	8.411	0.053	1.730	0.630	15.600
32	1.600	5.249	10.790	10.803	0.087	2.010	0.805	0.000
33	1.650	5.413	11.270	11.292	0.041	3.580	0.363	0.000
34	1.700	5.577	13.980	14.004	0.063	3.860	0.450	0.000
35	1.750	5.741	12.700	12.726	0.102	4.210	0.801	0.000
36	1.800	5.905	19.270	19.295	0.174	3.990	0.902	0.000
37	1.850	6.069	28.870	28.900	0.079	4.780	0.273	0.000
38	1.900	6.234	20.660	20.701	0.068	6.640	0.328	0.000
39	1.950	6.398	19.230	19.270	0.118	6.420	0.612	0.000
40	2.000	6.562	17.310	17.348	0.155	6.040	0.893	0.000
41	2.050	6.726	17.710	17.746	0.243	5.710	1.369	0.000
42	2.100	6.890	25.630	25.662	0.132	5.190	0.514	0.000
43	2.150	7.054	44.080	44.103	0.244	3.730	0.553	0.000
44	2.200	7.218	38.750	38.769	0.411	3.060	1.060	0.000
45	2.250	7.382	31.330	31.346	0.598	2.550	1.908	0.000
46	2.300	7.546	89.890	89.907	0.000	2.700	0.000	0.000
47	2.350	7.710	329.700	329.709	0.000	1.480	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221548
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-5-5
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-05-2014
CPT Time:	15:48
CPT File:	13-53075_GP5-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722094.360
Northing / Lat:	4294278.430
Elevation:	145.180
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	217.840	217.894	0.010	8.710	0.005	34.300
2	0.100	0.328	227.870	227.902	0.007	5.070	0.003	38.100
3	0.150	0.492	217.690	217.735	0.014	7.140	0.006	57.400
4	0.200	0.656	177.900	177.987	0.016	13.970	0.009	57.900
5	0.250	0.820	99.720	99.837	0.015	18.730	0.015	73.400
6	0.300	0.984	22.780	22.801	0.016	3.350	0.070	74.100
7	0.350	1.148	14.650	14.725	0.012	11.970	0.081	77.900
8	0.400	1.312	8.130	8.180	0.014	7.960	0.171	79.200
9	0.450	1.476	7.250	7.300	0.024	8.060	0.329	92.400
10	0.500	1.640	9.240	9.306	0.029	10.510	0.312	80.000
11	0.550	1.804	21.890	21.970	0.000	12.850	0.000	73.200
12	0.600	1.968	37.510	37.542	0.109	5.050	0.290	74.300
13	0.650	2.133	39.210	39.254	0.257	7.020	0.655	74.800
14	0.700	2.297	31.030	31.048	0.365	2.930	1.176	64.400
15	0.750	2.461	21.670	21.686	0.336	2.510	1.549	56.300
16	0.800	2.625	28.440	28.422	0.148	-2.890	0.521	51.300
17	0.850	2.789	27.500	27.545	0.400	7.160	1.452	49.200
18	0.900	2.953	19.760	19.796	0.338	5.730	1.707	47.600
19	0.950	3.117	9.650	9.727	0.419	12.370	4.307	28.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	14.310	14.367	0.359	9.110	2.499	30.600
21	1.050	3.445	14.830	14.847	0.214	2.770	1.441	21.200
22	1.100	3.609	3.060	3.073	0.142	2.050	4.621	26.000
23	1.150	3.773	9.660	9.725	0.155	10.420	1.594	23.600
24	1.200	3.937	13.860	13.949	0.074	14.260	0.531	19.400
25	1.250	4.101	5.920	5.920	0.111	0.060	1.875	17.000
26	1.300	4.265	14.290	14.331	0.212	6.580	1.479	26.600
27	1.350	4.429	18.740	18.788	0.194	7.660	1.033	18.500
28	1.400	4.593	13.540	13.615	0.130	11.970	0.955	20.500
29	1.450	4.757	21.860	21.897	0.145	6.000	0.662	37.000
30	1.500	4.921	31.200	31.247	0.408	7.590	1.306	38.100
31	1.550	5.085	20.680	20.739	0.322	9.520	1.553	36.400
32	1.600	5.249	16.180	16.196	0.250	2.600	1.544	40.800
33	1.650	5.413	56.440	56.469	0.777	4.700	1.376	48.600
34	1.700	5.577	56.330	56.347	0.609	2.690	1.081	44.800
35	1.750	5.741	14.160	14.690	0.733	84.880	4.990	48.200
36	1.800	5.905	17.720	17.948	1.004	36.450	5.594	48.300
37	1.850	6.069	25.050	25.068	0.657	2.820	2.621	55.800
38	1.900	6.234	16.370	16.393	0.286	3.630	1.745	62.100
39	1.950	6.398	11.860	11.985	0.344	20.020	2.870	64.400
40	2.000	6.562	17.420	17.554	0.400	21.520	2.279	65.000
41	2.050	6.726	22.480	22.609	0.759	20.740	3.357	56.300
42	2.100	6.890	228.750	228.812	0.692	9.910	0.302	58.700
43	2.150	7.054	257.670	257.697	2.270	4.270	0.881	47.500
44	2.200	7.218	185.950	185.936	2.970	-2.300	1.597	57.000
45	2.250	7.382	183.950	183.919	3.186	-4.960	1.732	64.700
46	2.300	7.546	142.700	142.738	3.358	6.060	2.353	64.000
47	2.350	7.710	131.460	131.481	3.572	3.290	2.717	75.300
48	2.400	7.874	144.180	144.143	3.432	-5.990	2.381	80.900
49	2.450	8.038	127.920	127.867	2.863	-8.460	2.239	94.600
50	2.500	8.202	116.750	116.679	2.650	-11.390	2.271	85.200
51	2.550	8.366	101.530	101.463	2.175	-10.790	2.144	97.000
52	2.600	8.530	93.070	92.996	2.277	-11.800	2.448	106.900
53	2.650	8.694	78.690	78.615	2.022	-11.980	2.572	89.200
54	2.700	8.858	70.500	70.417	1.705	-13.370	2.421	107.100
55	2.750	9.022	57.580	57.514	1.280	-10.590	2.226	104.800
56	2.800	9.186	30.910	30.845	1.006	-10.360	3.261	112.400
57	2.850	9.350	19.560	19.495	0.722	-10.360	3.703	114.600
58	2.900	9.514	16.730	16.666	0.580	-10.240	3.480	99.900
59	2.950	9.678	16.580	16.516	0.497	-10.220	3.009	80.400
60	3.000	9.842	20.080	20.007	0.382	-11.620	1.909	62.800
61	3.050	10.006	27.460	27.419	0.297	-6.610	1.083	50.500
62	3.100	10.170	55.590	55.608	0.233	2.850	0.419	42.200
63	3.150	10.335	64.220	64.264	0.422	7.010	0.657	28.800
64	3.200	10.499	63.780	63.806	0.662	4.170	1.038	22.700
65	3.250	10.663	63.300	63.332	0.590	5.160	0.932	26.400
66	3.300	10.827	67.210	67.206	0.597	-0.700	0.888	27.800
67	3.350	10.991	85.320	85.569	0.588	39.890	0.687	13.800
68	3.400	11.155	52.260	52.288	0.760	4.490	1.453	15.300
69	3.450	11.319	70.730	70.775	1.195	7.160	1.688	20.400
70	3.500	11.483	41.690	41.724	0.742	5.410	1.778	19.600
71	3.550	11.647	19.710	19.727	0.666	2.770	3.376	17.100
72	3.600	11.811	10.730	10.750	0.604	3.260	5.618	13.200
73	3.650	11.975	22.770	22.786	0.618	2.520	2.712	21.000
74	3.700	12.139	20.640	20.672	0.425	5.050	2.056	14.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	23.210	23.232	0.524	3.480	2.256	18.500
76	3.800	12.467	13.200	13.219	0.406	2.970	3.071	15.900
77	3.850	12.631	8.890	8.928	0.273	6.050	3.058	19.700
78	3.900	12.795	42.410	42.451	0.699	6.510	1.647	16.600
79	3.950	12.959	34.360	34.575	0.798	34.480	2.308	22.300
80	4.000	13.123	16.610	16.602	0.802	-1.290	4.831	25.500
81	4.050	13.287	22.160	22.212	0.493	8.400	2.219	25.700
82	4.100	13.451	20.220	20.288	0.335	10.970	1.651	29.200
83	4.150	13.615	51.710	51.782	0.388	11.510	0.749	29.300
84	4.200	13.779	52.170	52.209	0.712	6.200	1.364	26.500
85	4.250	13.943	36.710	36.747	0.847	6.000	2.305	31.300
86	4.300	14.107	28.230	28.266	0.735	5.780	2.600	37.700
87	4.350	14.271	21.500	21.548	1.071	7.650	4.970	34.700
88	4.400	14.436	53.810	53.860	1.017	8.080	1.888	60.400
89	4.450	14.600	65.270	65.327	1.298	9.180	1.987	67.500
90	4.500	14.764	145.770	145.812	1.803	6.690	1.237	77.900
91	4.550	14.928	187.790	187.819	2.138	4.630	1.138	84.000
92	4.600	15.092	178.720	178.752	2.497	5.100	1.397	75.100
93	4.650	15.256	137.800	137.848	2.510	7.710	1.821	75.300
94	4.700	15.420	117.070	117.096	2.372	4.120	2.026	47.000
95	4.750	15.584	94.220	94.236	2.278	2.530	2.417	52.400
96	4.800	15.748	97.550	97.543	2.824	-1.050	2.895	36.500
97	4.850	15.912	65.060	65.106	2.562	7.320	3.935	23.300
98	4.900	16.076	56.260	56.278	1.726	2.880	3.067	20.100
99	4.950	16.240	15.430	15.457	0.672	4.330	4.348	24.100
100	5.000	16.404	46.130	46.245	0.798	18.480	1.726	19.600
101	5.050	16.568	31.450	31.481	0.854	4.890	2.713	24.800
102	5.100	16.732	38.210	38.220	0.638	1.570	1.669	26.900
103	5.150	16.896	17.290	17.292	0.612	0.320	3.539	34.900
104	5.200	17.060	21.170	21.327	1.508	25.210	7.071	48.800
105	5.250	17.224	107.660	107.679	1.467	3.120	1.362	72.800
106	5.300	17.388	49.510	49.615	1.696	16.840	3.418	74.000
107	5.350	17.552	56.850	56.899	1.193	7.870	2.097	78.300
108	5.400	17.716	36.020	36.035	0.948	2.400	2.631	84.500
109	5.450	17.880	32.270	32.275	0.328	0.790	1.016	78.500
110	5.500	18.044	64.410	64.435	1.264	4.000	1.962	77.400
111	5.550	18.208	24.060	24.164	1.038	16.640	4.296	80.900
112	5.600	18.372	21.190	21.272	1.089	13.070	5.120	70.800
113	5.650	18.537	20.560	20.621	0.363	9.740	1.760	79.100
114	5.700	18.701	11.810	11.860	0.349	7.940	2.943	83.800
115	5.750	18.865	10.890	10.970	0.290	12.830	2.644	64.000
116	5.800	19.029	10.080	10.140	0.221	9.610	2.179	84.400
117	5.850	19.193	9.580	9.611	0.232	4.930	2.414	50.000
118	5.900	19.357	12.970	13.013	0.296	6.900	2.275	42.400
119	5.950	19.521	15.700	15.750	0.434	8.030	2.756	39.500
120	6.000	19.685	20.240	20.274	0.481	5.500	2.372	27.700
121	6.050	19.849	14.370	14.419	0.667	7.770	4.626	32.200
122	6.100	20.013	14.820	14.894	0.749	11.930	5.029	17.400
123	6.150	20.177	20.700	20.720	0.561	3.220	2.708	12.500
124	6.200	20.341	35.220	35.266	0.588	7.400	1.667	9.700
125	6.250	20.505	45.250	45.292	0.788	6.710	1.740	13.300
126	6.300	20.669	52.490	52.471	1.060	-3.110	2.020	13.300
127	6.350	20.833	40.850	40.871	0.936	3.310	2.290	10.600
128	6.400	20.997	34.640	34.654	0.833	2.300	2.404	16.200
129	6.450	21.161	38.730	38.738	0.594	1.270	1.533	22.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	15.710	15.741	0.450	4.970	2.859	23.200
131	6.550	21.489	16.410	16.436	0.288	4.160	1.752	19.900
132	6.600	21.653	31.950	31.970	0.730	3.130	2.283	26.400
133	6.650	21.817	34.510	34.542	0.706	5.120	2.044	25.000
134	6.700	21.981	7.130	7.165	0.770	5.670	10.746	32.200
135	6.750	22.145	12.430	12.470	0.481	6.440	3.857	38.800
136	6.800	22.309	6.060	6.148	0.607	14.050	9.874	39.600
137	6.850	22.473	11.610	11.727	0.803	18.730	6.847	42.600
138	6.900	22.638	47.330	47.393	0.841	10.150	1.775	47.600
139	6.950	22.802	101.940	101.949	1.250	1.480	1.226	43.400
140	7.000	22.966	51.070	51.115	1.612	7.200	3.154	55.300
141	7.050	23.130	118.500	118.542	2.311	6.730	1.950	42.300
142	7.100	23.294	148.460	148.499	1.030	6.320	0.694	36.100
143	7.150	23.458	143.050	143.087	1.721	5.950	1.203	43.000
144	7.200	23.622	87.790	87.848	2.227	9.310	2.535	25.100
145	7.250	23.786	92.000	92.049	1.450	7.910	1.575	27.300
146	7.300	23.950	94.480	94.522	1.526	6.680	1.614	29.700
147	7.350	24.114	103.550	103.598	2.135	7.620	2.061	26.400
148	7.400	24.278	86.210	86.259	1.000	7.790	1.159	27.100
149	7.450	24.442	64.570	64.615	0.849	7.140	1.314	37.100
150	7.500	24.606	60.830	60.887	0.274	9.210	0.450	31.300
151	7.550	24.770	63.970	64.016	0.785	7.400	1.226	38.100
152	7.600	24.934	78.940	78.987	0.729	7.510	0.923	37.000
153	7.650	25.098	35.480	35.529	0.582	7.870	1.638	41.100
154	7.700	25.262	28.210	28.286	0.398	12.220	1.407	43.300
155	7.750	25.426	31.190	31.237	0.381	7.580	1.220	55.100
156	7.800	25.590	15.200	15.265	0.652	10.450	4.271	66.200
157	7.850	25.754	21.610	21.641	0.512	4.920	2.366	65.700
158	7.900	25.918	27.390	27.629	0.646	38.210	2.338	70.800
159	7.950	26.082	62.020	62.172	1.102	24.370	1.772	60.500
160	8.000	26.246	84.730	84.726	1.547	-0.680	1.826	63.300
161	8.050	26.410	74.290	74.233	2.066	-9.140	2.783	61.700
162	8.100	26.574	78.330	78.337	1.695	1.050	2.164	49.700
163	8.150	26.739	96.050	96.135	2.388	13.590	2.484	49.000
164	8.200	26.903	122.450	122.380	3.034	-11.230	2.479	53.800
165	8.250	27.067	99.950	99.901	3.042	-7.900	3.045	40.100
166	8.300	27.231	188.650	188.664	3.074	2.220	1.629	40.900
167	8.350	27.395	177.820	177.827	5.093	1.110	2.864	39.100
168	8.400	27.559	147.590	147.566	4.576	-3.810	3.101	30.200
169	8.450	27.723	121.650	121.767	3.691	18.820	3.031	27.900
170	8.500	27.887	89.610	89.725	2.202	18.420	2.454	27.400
171	8.550	28.051	47.700	47.713	1.339	2.060	2.806	29.200
172	8.600	28.215	82.290	82.367	1.307	12.360	1.587	27.700
173	8.650	28.379	83.240	83.392	1.634	24.370	1.959	19.600
174	8.700	28.543	45.410	45.517	1.900	17.110	4.174	30.100
175	8.750	28.707	47.180	47.266	1.660	13.720	3.512	25.000
176	8.800	28.871	19.510	19.690	1.071	28.810	5.439	36.200
177	8.850	29.035	17.520	17.570	0.711	7.960	4.047	47.000
178	8.900	29.199	15.380	15.470	0.343	14.350	2.217	57.000
179	8.950	29.363	14.400	14.466	0.332	10.590	2.295	80.600
180	9.000	29.527	31.060	31.133	0.653	11.700	2.097	80.000
181	9.050	29.691	44.500	44.657	0.977	25.130	2.188	118.100
182	9.100	29.855	51.790	51.826	1.599	5.720	3.085	142.500
183	9.150	30.019	56.220	56.344	1.555	19.880	2.760	185.900
184	9.200	30.183	36.590	36.717	1.533	20.390	4.175	297.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	27.550	27.578	1.028	4.440	3.728	409.600
186	9.300	30.511	21.370	21.503	0.924	21.280	4.297	518.300
187	9.350	30.675	29.690	29.772	0.812	13.070	2.727	725.300
188	9.400	30.840	15.840	15.932	0.800	14.710	5.021	904.800
189	9.450	31.004	27.350	27.414	1.069	10.310	3.899	1209.500
190	9.500	31.168	47.870	47.967	1.597	15.530	3.329	1600.700
191	9.550	31.332	59.670	59.868	2.074	31.680	3.464	2387.600
192	9.600	31.496	62.960	63.072	2.023	17.980	3.207	3483.600
193	9.650	31.660	54.090	54.145	1.659	8.850	3.064	4932.800
194	9.700	31.824	20.980	21.405	0.997	68.020	4.658	6284.200
195	9.750	31.988	16.990	17.403	0.574	66.110	3.298	7281.400
196	9.800	32.152	14.540	15.164	0.416	99.880	2.743	7506.000
197	9.850	32.316	16.710	17.332	0.399	99.630	2.302	7373.800
198	9.900	32.480	84.960	85.569	1.502	97.540	1.755	7170.300
199	9.950	32.644	148.740	148.746	1.572	0.930	1.057	7288.500
200	10.000	32.808	30.950	31.053	1.394	16.510	4.489	7189.000
201	10.050	32.972	22.640	23.009	0.724	59.180	3.147	6918.900
202	10.100	33.136	23.310	23.776	0.630	74.720	2.650	6288.200
203	10.150	33.300	35.660	36.643	0.809	157.440	2.208	5414.300
204	10.200	33.464	41.190	41.648	1.077	73.430	2.586	3748.200
205	10.250	33.628	57.100	57.263	1.421	26.100	2.482	2319.400
206	10.300	33.792	37.200	37.265	1.597	10.400	4.286	1599.000
207	10.350	33.956	49.420	49.835	1.802	66.410	3.616	908.500
208	10.400	34.120	106.780	106.901	2.088	19.320	1.953	540.300
209	10.450	34.284	104.930	104.940	2.374	1.610	2.262	309.100
210	10.500	34.448	90.320	90.341	2.251	3.320	2.492	182.000
211	10.550	34.612	79.110	79.152	1.622	6.780	2.049	144.000
212	10.600	34.776	62.840	62.918	1.942	12.520	3.087	114.100
213	10.650	34.941	64.140	64.191	2.063	8.200	3.214	101.300
214	10.700	35.105	51.090	51.154	2.052	10.240	4.011	75.900
215	10.750	35.269	54.070	54.302	2.053	37.220	3.781	68.400
216	10.800	35.433	34.830	35.054	2.167	35.830	6.182	65.900
217	10.850	35.597	25.730	25.929	1.779	31.910	6.861	47.500
218	10.900	35.761	39.860	39.848	1.397	-1.930	3.506	29.000
219	10.950	35.925	42.640	42.967	1.450	52.390	3.375	22.900
220	11.000	36.089	51.740	51.767	2.002	4.390	3.867	14.700
221	11.050	36.253	58.000	58.098	2.242	15.620	3.859	14.700
222	11.100	36.417	72.300	72.681	2.450	60.970	3.371	12.400
223	11.150	36.581	47.080	47.204	2.278	19.820	4.826	14.200
224	11.200	36.745	47.880	47.943	2.227	10.090	4.645	10.200
225	11.250	36.909	35.230	35.299	2.008	11.120	5.688	8.200
226	11.300	37.073	48.410	48.599	1.911	30.300	3.932	10.700
227	11.350	37.237	28.490	28.538	1.590	7.720	5.571	9.900
228	11.400	37.401	28.200	28.234	0.711	5.380	2.518	7.700
229	11.450	37.565	48.490	48.550	1.428	9.590	2.941	6.200
230	11.500	37.729	75.140	75.190	1.107	7.990	1.472	7.600
231	11.550	37.893	100.030	100.067	0.893	5.890	0.892	9.600
232	11.600	38.057	41.720	41.963	1.603	38.890	3.820	11.200
233	11.650	38.221	88.670	88.793	2.273	19.650	2.560	9.000
234	11.700	38.385	41.660	41.784	2.295	19.820	5.493	14.400
235	11.750	38.549	38.210	38.383	2.068	27.670	5.388	17.100
236	11.800	38.713	45.950	45.985	1.330	5.660	2.892	19.100
237	11.850	38.877	51.010	51.054	1.454	6.990	2.848	16.300
238	11.900	39.042	52.090	52.424	2.045	53.510	3.901	18.100
239	11.950	39.206	57.820	57.886	1.818	10.520	3.141	16.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	31.680	31.741	1.849	9.770	5.825	10.600
241	12.050	39.534	38.260	38.725	1.691	74.490	4.367	13.400
242	12.100	39.698	46.240	46.547	1.559	49.250	3.349	14.400
243	12.150	39.862	57.390	57.536	2.229	23.360	3.874	13.800
244	12.200	40.026	64.960	65.041	2.006	13.020	3.084	14.300
245	12.250	40.190	30.900	31.043	1.582	22.870	5.096	18.000
246	12.300	40.354	44.290	44.452	1.481	25.890	3.332	14.300
247	12.350	40.518	43.580	43.655	1.233	12.050	2.824	18.600
248	12.400	40.682	45.670	45.750	1.468	12.830	3.209	20.200
249	12.450	40.846	51.680	51.951	1.724	43.350	3.319	19.200
250	12.500	41.010	61.410	61.452	1.937	6.710	3.152	12.500
251	12.550	41.174	37.480	37.579	1.775	15.930	4.723	13.000
252	12.600	41.338	31.830	31.892	1.621	9.960	5.083	12.000
253	12.650	41.502	38.390	38.428	1.397	6.020	3.635	23.000
254	12.700	41.666	35.510	35.973	1.256	74.210	3.491	15.300
255	12.750	41.830	40.210	40.443	1.125	37.370	2.782	13.500
256	12.800	41.994	44.020	44.087	1.220	10.670	2.767	14.900
257	12.850	42.158	42.330	42.388	1.226	9.320	2.892	15.000
258	12.900	42.322	28.260	28.377	1.435	18.730	5.057	17.100
259	12.950	42.486	51.280	51.327	1.617	7.510	3.150	11.400
260	13.000	42.650	51.720	51.936	1.771	34.530	3.410	16.900
261	13.050	42.814	57.730	57.832	1.973	16.350	3.412	17.300
262	13.100	42.978	70.930	71.081	2.702	24.250	3.801	26.300
263	13.150	43.143	143.170	143.500	3.588	52.860	2.500	39.500
264	13.200	43.307	85.020	85.125	3.402	16.800	3.996	39.800
265	13.250	43.471	70.160	70.277	1.955	18.820	2.782	50.600
266	13.300	43.635	68.660	68.795	1.224	21.630	1.779	42.500
267	13.350	43.799	31.310	31.376	0.813	10.640	2.591	42.700
268	13.400	43.963	41.550	41.645	0.759	15.290	1.823	59.400
269	13.450	44.127	67.280	67.408	0.638	20.480	0.946	60.900
270	13.500	44.291	103.800	103.895	0.824	15.170	0.793	57.200
271	13.550	44.455	125.300	125.393	0.934	14.960	0.745	37.900
272	13.600	44.619	116.970	117.050	1.203	12.820	1.028	46.500
273	13.650	44.783	73.030	73.112	1.140	13.200	1.559	36.500
274	13.700	44.947	58.480	58.542	1.151	9.980	1.966	29.600
275	13.750	45.111	60.350	60.455	1.750	16.770	2.895	25.500
276	13.800	45.275	77.940	77.998	1.927	9.370	2.471	22.100
277	13.850	45.439	41.610	41.773	1.765	26.050	4.225	0.000
278	13.900	45.603	35.660	35.746	1.168	13.700	3.268	0.000
279	13.950	45.767	27.360	27.414	0.957	8.700	3.491	0.000
280	14.000	45.931	27.820	27.882	0.872	9.880	3.128	0.000
281	14.050	46.095	88.570	88.701	1.967	20.910	2.218	0.000
282	14.100	46.259	113.680	113.737	2.969	9.180	2.610	0.000
283	14.150	46.423	70.100	70.079	3.158	-3.310	4.506	0.000
284	14.200	46.587	50.360	50.518	3.127	25.370	6.190	0.000
285	14.250	46.751	76.030	76.639	2.440	97.590	3.184	0.000
286	14.300	46.915	95.940	96.259	2.497	51.060	2.594	0.000
287	14.350	47.079	86.800	86.987	2.166	29.960	2.490	0.000
288	14.400	47.244	82.890	83.000	2.572	17.600	3.099	0.000
289	14.450	47.408	148.190	148.282	2.616	14.810	1.764	0.000
290	14.500	47.572	31.670	31.769	2.071	15.840	6.519	0.000
291	14.550	47.736	22.610	23.031	0.000	67.470	0.000	0.000
292	14.600	47.900	21.020	21.469	0.000	71.880	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221549
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-5-6
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-05-2014
CPT Time:	14:28
CPT File:	13-53075_GP5-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722098.020
Northing / Lat:	4294292.150
Elevation:	144.590
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	395.260	395.309	0.497	7.860	0.126	29.600
2	0.100	0.328	355.850	355.911	0.793	9.800	0.223	47.700
3	0.150	0.492	302.100	302.122	0.505	3.520	0.167	55.100
4	0.200	0.656	211.570	211.609	0.515	6.320	0.243	50.100
5	0.250	0.820	147.920	148.017	0.415	15.510	0.280	58.400
6	0.300	0.984	90.480	90.603	0.322	19.730	0.355	67.300
7	0.350	1.148	43.230	43.265	0.217	5.680	0.502	70.600
8	0.400	1.312	25.410	25.423	0.211	2.150	0.830	73.500
9	0.450	1.476	19.600	19.574	0.230	-4.170	1.175	84.200
10	0.500	1.640	14.500	14.479	0.223	-3.370	1.540	88.200
11	0.550	1.804	14.220	14.260	0.217	6.390	1.522	87.500
12	0.600	1.968	20.920	20.941	0.219	3.360	1.046	90.100
13	0.650	2.133	39.910	39.891	0.294	-3.110	0.737	103.500
14	0.700	2.297	60.600	60.576	0.501	-3.920	0.827	88.500
15	0.750	2.461	70.990	70.976	0.865	-2.230	1.219	87.900
16	0.800	2.625	63.860	63.884	1.037	3.840	1.623	84.700
17	0.850	2.789	54.470	54.587	1.146	18.810	2.099	91.000
18	0.900	2.953	58.710	58.784	1.018	11.910	1.732	88.800
19	0.950	3.117	73.680	73.724	0.948	7.100	1.286	77.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	76.810	76.813	0.849	0.460	1.105	86.700
21	1.050	3.445	74.950	74.950	0.819	0.020	1.093	87.900
22	1.100	3.609	62.980	62.982	1.032	0.270	1.639	98.500
23	1.150	3.773	46.560	46.558	1.103	-0.310	2.369	81.800
24	1.200	3.937	38.880	38.889	1.071	1.400	2.754	87.200
25	1.250	4.101	69.230	69.255	1.023	3.930	1.477	87.100
26	1.300	4.265	74.210	74.158	1.195	-8.390	1.611	88.100
27	1.350	4.429	58.550	58.486	1.288	-10.280	2.202	77.600
28	1.400	4.593	43.780	43.732	1.172	-7.690	2.680	83.300
29	1.450	4.757	38.170	38.135	0.904	-5.590	2.371	86.500
30	1.500	4.921	61.890	61.859	0.946	-4.920	1.529	81.700
31	1.550	5.085	69.380	69.390	0.916	1.560	1.320	81.500
32	1.600	5.249	39.410	39.418	0.950	1.220	2.410	80.500
33	1.650	5.413	29.740	29.777	0.920	5.860	3.090	92.600
34	1.700	5.577	20.530	20.539	0.708	1.380	3.447	79.200
35	1.750	5.741	20.950	20.955	0.436	0.770	2.081	65.100
36	1.800	5.905	36.980	36.969	0.302	-1.780	0.817	61.900
37	1.850	6.069	55.160	55.161	0.480	0.200	0.870	57.200
38	1.900	6.234	48.770	48.787	0.570	2.650	1.168	56.800
39	1.950	6.398	15.990	16.004	0.682	2.190	4.262	59.600
40	2.000	6.562	12.320	12.331	0.428	1.790	3.471	64.100
41	2.050	6.726	9.910	9.917	0.354	1.130	3.570	75.400
42	2.100	6.890	10.520	10.516	0.339	-0.620	3.224	73.600
43	2.150	7.054	6.610	6.632	0.352	3.520	5.308	107.900
44	2.200	7.218	6.010	6.016	0.339	0.930	5.635	86.900
45	2.250	7.382	4.570	4.572	0.291	0.310	6.365	83.900
46	2.300	7.546	4.070	4.059	0.237	-1.820	5.839	53.400
47	2.350	7.710	5.970	5.955	0.238	-2.350	3.996	62.200
48	2.400	7.874	10.480	10.463	0.163	-2.750	1.558	46.400
49	2.450	8.038	4.990	4.972	0.096	-2.850	1.931	40.800
50	2.500	8.202	7.540	7.505	0.079	-5.540	1.053	39.100
51	2.550	8.366	7.420	7.437	0.027	2.730	0.363	54.600
52	2.600	8.530	2.130	2.138	0.043	1.250	2.011	55.200
53	2.650	8.694	7.160	7.169	0.062	1.400	0.865	65.200
54	2.700	8.858	8.640	8.678	0.071	6.070	0.818	65.600
55	2.750	9.022	10.040	10.073	0.070	5.210	0.695	64.300
56	2.800	9.186	10.040	10.073	0.083	5.280	0.824	56.700
57	2.850	9.350	7.500	7.511	0.112	1.810	1.491	48.300
58	2.900	9.514	9.660	9.671	0.110	1.750	1.137	44.900
59	2.950	9.678	12.910	12.939	0.327	4.720	2.527	32.100
60	3.000	9.842	34.610	34.622	0.411	1.920	1.187	27.000
61	3.050	10.006	42.360	42.398	0.375	6.050	0.884	20.800
62	3.100	10.170	69.030	69.045	0.266	2.400	0.385	23.300
63	3.150	10.335	73.440	73.497	0.328	9.110	0.446	18.700
64	3.200	10.499	52.000	52.033	0.599	5.240	1.151	30.800
65	3.250	10.663	50.160	50.206	0.946	7.420	1.884	44.300
66	3.300	10.827	87.330	87.391	1.161	9.730	1.329	35.400
67	3.350	10.991	66.710	66.707	1.558	-0.440	2.336	25.000
68	3.400	11.155	56.300	56.294	1.263	-0.970	2.244	31.300
69	3.450	11.319	30.010	30.026	0.580	2.610	1.932	19.800
70	3.500	11.483	47.440	47.477	0.581	5.910	1.224	18.600
71	3.550	11.647	52.340	52.363	0.555	3.710	1.060	14.500
72	3.600	11.811	31.990	31.995	0.587	0.740	1.835	20.400
73	3.650	11.975	16.880	16.876	0.775	-0.610	4.592	15.300
74	3.700	12.139	15.470	15.488	0.580	2.860	3.745	24.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	17.200	17.217	0.710	2.650	4.124	29.300
76	3.800	12.467	35.740	35.788	0.825	7.700	2.305	40.900
77	3.850	12.631	24.440	24.464	0.920	3.810	3.761	39.000
78	3.900	12.795	33.260	33.264	0.621	0.600	1.867	48.100
79	3.950	12.959	41.360	41.386	0.607	4.170	1.467	49.500
80	4.000	13.123	48.950	48.980	1.008	4.860	2.058	45.100
81	4.050	13.287	58.480	58.498	1.114	2.900	1.904	40.200
82	4.100	13.451	51.470	51.469	1.115	-0.210	2.166	30.600
83	4.150	13.615	48.240	48.262	1.190	3.450	2.466	21.400
84	4.200	13.779	54.850	54.879	1.463	4.680	2.666	20.000
85	4.250	13.943	46.550	46.613	1.548	10.040	3.321	17.800
86	4.300	14.107	45.730	45.776	1.203	7.440	2.628	8.700
87	4.350	14.271	46.100	46.110	1.212	1.610	2.628	22.000
88	4.400	14.436	45.640	45.642	1.065	0.350	2.333	19.700
89	4.450	14.600	18.780	18.792	0.664	1.930	3.533	19.700
90	4.500	14.764	29.940	29.955	0.318	2.400	1.062	23.700
91	4.550	14.928	11.430	11.432	0.241	0.360	2.108	34.500
92	4.600	15.092	15.740	15.794	0.236	8.690	1.494	29.700
93	4.650	15.256	14.610	14.635	0.324	3.960	2.214	36.300
94	4.700	15.420	19.010	19.021	0.477	1.690	2.508	45.000
95	4.750	15.584	12.850	12.857	0.473	1.100	3.679	62.300
96	4.800	15.748	20.750	20.758	0.633	1.310	3.049	61.100
97	4.850	15.912	19.130	19.144	0.502	2.230	2.622	57.100
98	4.900	16.076	9.000	9.064	0.323	10.200	3.564	60.700
99	4.950	16.240	9.230	9.248	0.093	2.920	1.006	52.900
100	5.000	16.404	7.450	7.460	0.149	1.660	1.997	56.500
101	5.050	16.568	11.140	11.169	0.206	4.600	1.844	65.000
102	5.100	16.732	11.360	11.397	0.239	5.880	2.097	59.900
103	5.150	16.896	23.550	23.536	0.595	-2.190	2.528	51.500
104	5.200	17.060	16.710	16.684	0.484	-4.220	2.901	52.000
105	5.250	17.224	34.280	34.219	0.855	-9.830	2.499	47.300
106	5.300	17.388	24.080	23.990	0.768	-14.380	3.201	44.200
107	5.350	17.552	15.790	15.731	0.541	-9.390	3.439	50.300
108	5.400	17.716	17.460	17.515	0.420	8.800	2.398	36.500
109	5.450	17.880	15.170	15.200	0.561	4.870	3.691	29.600
110	5.500	18.044	17.030	16.978	0.432	-8.340	2.544	32.500
111	5.550	18.208	26.290	26.356	0.610	10.580	2.314	28.000
112	5.600	18.372	49.230	49.276	0.849	7.420	1.723	28.600
113	5.650	18.537	32.400	32.457	0.916	9.180	2.822	28.900
114	5.700	18.701	20.170	20.198	1.387	4.490	6.867	35.500
115	5.750	18.865	64.320	64.362	1.496	6.730	2.324	28.800
116	5.800	19.029	49.700	49.684	1.469	-2.500	2.957	40.000
117	5.850	19.193	55.680	55.805	1.330	20.000	2.383	35.800
118	5.900	19.357	32.300	32.376	0.944	12.180	2.916	45.900
119	5.950	19.521	29.230	29.440	0.938	33.670	3.186	65.900
120	6.000	19.685	33.110	33.213	0.857	16.490	2.580	68.600
121	6.050	19.849	39.220	39.300	0.735	12.780	1.870	74.200
122	6.100	20.013	66.250	66.334	1.241	13.460	1.871	67.300
123	6.150	20.177	62.460	62.476	1.347	2.630	2.156	60.100
124	6.200	20.341	51.670	51.655	1.077	-2.480	2.085	58.100
125	6.250	20.505	55.500	55.392	1.030	-17.310	1.859	50.200
126	6.300	20.669	56.470	56.374	1.598	-15.320	2.835	59.600
127	6.350	20.833	31.990	31.904	1.567	-13.710	4.912	41.000
128	6.400	20.997	25.820	25.790	1.329	-4.880	5.153	22.500
129	6.450	21.161	25.130	25.166	0.793	5.810	3.151	24.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	14.350	14.357	0.785	1.100	5.468	28.000
131	6.550	21.489	17.860	17.921	0.788	9.830	4.397	32.800
132	6.600	21.653	20.360	20.407	0.693	7.560	3.396	40.100
133	6.650	21.817	17.520	17.845	0.542	52.080	3.037	46.500
134	6.700	21.981	12.950	13.463	0.446	82.180	3.313	46.300
135	6.750	22.145	12.410	12.807	0.405	63.530	3.162	44.900
136	6.800	22.309	25.230	25.628	0.601	63.770	2.345	57.800
137	6.850	22.473	23.110	23.494	0.694	61.480	2.954	59.100
138	6.900	22.638	13.780	14.308	0.642	84.610	4.487	55.800
139	6.950	22.802	40.120	40.259	0.805	22.310	2.000	62.100
140	7.000	22.966	43.520	43.559	1.085	6.190	2.491	78.100
141	7.050	23.130	30.740	30.708	1.160	-5.070	3.777	69.500
142	7.100	23.294	22.680	22.732	1.030	8.290	4.531	58.900
143	7.150	23.458	23.920	23.946	0.991	4.220	4.138	48.600
144	7.200	23.622	102.430	102.384	1.704	-7.290	1.664	46.700
145	7.250	23.786	60.260	60.278	1.784	2.820	2.960	53.700
146	7.300	23.950	22.260	22.295	1.550	5.670	6.952	58.100
147	7.350	24.114	18.010	18.024	0.739	2.190	4.100	81.300
148	7.400	24.278	14.290	14.356	0.589	10.540	4.103	87.100
149	7.450	24.442	15.250	15.344	0.574	15.060	3.741	79.400
150	7.500	24.606	31.280	31.361	1.059	13.020	3.377	78.600
151	7.550	24.770	42.950	42.978	0.914	4.490	2.127	97.200
152	7.600	24.934	47.560	47.590	0.849	4.800	1.784	71.900
153	7.650	25.098	49.910	49.930	1.081	3.220	2.165	100.600
154	7.700	25.262	39.910	39.945	0.954	5.550	2.388	119.700
155	7.750	25.426	28.700	28.747	1.232	7.550	4.286	207.100
156	7.800	25.590	42.510	42.590	1.214	12.870	2.850	386.600
157	7.850	25.754	41.700	41.666	1.075	-5.430	2.580	619.100
158	7.900	25.918	32.360	32.308	1.030	-8.250	3.188	794.400
159	7.950	26.082	38.830	38.848	1.268	2.930	3.264	1034.900
160	8.000	26.246	133.380	133.399	1.493	3.060	1.119	1359.600
161	8.050	26.410	92.020	92.025	1.994	0.870	2.167	1593.500
162	8.100	26.574	156.010	156.042	2.597	5.070	1.664	2144.200
163	8.150	26.739	81.650	81.639	2.320	-1.800	2.842	3039.900
164	8.200	26.903	37.520	37.574	2.212	8.580	5.887	4284.200
165	8.250	27.067	33.620	33.762	1.244	22.720	3.685	5535.500
166	8.300	27.231	22.810	22.827	0.705	2.670	3.088	6385.100
167	8.350	27.395	20.720	20.791	0.730	11.420	3.511	6764.400
168	8.400	27.559	19.140	19.258	0.454	18.950	2.357	6688.000
169	8.450	27.723	15.420	15.848	0.461	68.560	2.909	5834.100
170	8.500	27.887	17.990	18.325	0.413	53.630	2.254	4443.800
171	8.550	28.051	26.110	26.444	0.679	53.540	2.568	2727.800
172	8.600	28.215	25.340	25.272	0.623	-10.890	2.465	1655.800
173	8.650	28.379	20.680	20.935	0.762	40.850	3.640	1020.500
174	8.700	28.543	27.220	27.280	0.599	9.640	2.196	657.300
175	8.750	28.707	36.160	36.410	0.737	40.090	2.024	403.900
176	8.800	28.871	93.970	94.091	1.792	19.450	1.905	283.100
177	8.850	29.035	91.030	91.074	2.201	7.020	2.417	245.400
178	8.900	29.199	61.530	61.688	2.475	25.230	4.012	182.400
179	8.950	29.363	41.540	41.585	1.805	7.150	4.341	155.000
180	9.000	29.527	59.240	59.297	2.202	9.160	3.713	114.500
181	9.050	29.691	90.670	90.724	2.834	8.670	3.124	79.800
182	9.100	29.855	163.590	163.668	3.565	12.450	2.178	62.800
183	9.150	30.019	169.850	169.956	3.051	16.930	1.795	48.500
184	9.200	30.183	164.720	164.787	3.128	10.760	1.898	48.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	116.180	116.214	3.439	5.420	2.959	30.500
186	9.300	30.511	246.300	246.441	2.826	22.660	1.147	22.500
187	9.350	30.675	212.070	212.329	1.528	41.490	0.720	23.800
188	9.400	30.840	111.460	111.558	1.502	15.710	1.346	22.200
189	9.450	31.004	133.580	133.650	2.047	11.230	1.532	22.100
190	9.500	31.168	58.570	58.603	1.602	5.340	2.734	17.800
191	9.550	31.332	50.350	50.375	1.553	3.990	3.083	21.800
192	9.600	31.496	47.150	47.196	1.149	7.370	2.435	22.100
193	9.650	31.660	35.980	36.042	1.068	10.010	2.963	22.400
194	9.700	31.824	20.070	20.118	0.917	7.610	4.558	21.200
195	9.750	31.988	35.470	35.526	1.016	8.900	2.860	18.900
196	9.800	32.152	32.410	32.462	1.049	8.360	3.231	10.100
197	9.850	32.316	39.380	39.479	1.309	15.910	3.316	23.300
198	9.900	32.480	60.090	60.263	1.659	27.680	2.753	14.600
199	9.950	32.644	83.260	83.357	2.008	15.550	2.409	14.900
200	10.000	32.808	54.090	54.201	1.660	17.710	3.063	19.900
201	10.050	32.972	18.690	18.761	1.188	11.420	6.332	18.100
202	10.100	33.136	16.130	16.183	0.671	8.500	4.146	16.100
203	10.150	33.300	10.500	10.568	0.562	10.960	5.318	18.700
204	10.200	33.464	21.370	21.472	1.200	16.380	5.589	19.900
205	10.250	33.628	75.250	75.287	1.277	5.990	1.696	31.700
206	10.300	33.792	27.160	27.247	1.692	13.880	6.210	29.700
207	10.350	33.956	63.080	63.101	1.455	3.370	2.306	27.200
208	10.400	34.120	84.050	84.085	1.251	5.670	1.488	25.700
209	10.450	34.284	55.160	55.202	1.102	6.670	1.996	31.900
210	10.500	34.448	64.020	64.082	1.313	9.900	2.049	38.300
211	10.550	34.612	76.150	76.197	1.101	7.550	1.445	41.300
212	10.600	34.776	61.250	61.280	1.544	4.730	2.520	37.500
213	10.650	34.941	65.140	65.166	1.700	4.100	2.609	44.200
214	10.700	35.105	45.230	45.259	1.605	4.600	3.546	25.400
215	10.750	35.269	56.100	56.140	1.500	6.400	2.672	28.600
216	10.800	35.433	62.260	62.261	1.322	0.230	2.123	22.100
217	10.850	35.597	56.480	56.522	1.529	6.800	2.705	19.700
218	10.900	35.761	58.200	58.247	1.240	7.520	2.129	13.200
219	10.950	35.925	37.260	37.220	0.939	-6.460	2.523	24.500
220	11.000	36.089	17.440	17.494	0.694	8.640	3.967	19.000
221	11.050	36.253	25.180	25.181	0.489	0.190	1.942	38.200
222	11.100	36.417	35.370	35.382	0.648	1.900	1.831	43.200
223	11.150	36.581	73.670	73.689	0.674	3.010	0.915	48.600
224	11.200	36.745	118.830	118.858	0.989	4.540	0.832	81.400
225	11.250	36.909	133.720	133.750	1.372	4.800	1.026	58.000
226	11.300	37.073	106.920	106.956	1.800	5.710	1.683	69.200
227	11.350	37.237	77.750	77.784	1.765	5.380	2.269	64.400
228	11.400	37.401	78.630	78.667	1.616	5.930	2.054	72.500
229	11.450	37.565	47.030	47.107	1.232	12.260	2.615	71.100
230	11.500	37.729	34.060	34.141	1.246	13.030	3.650	70.700
231	11.550	37.893	37.600	37.751	0.929	24.220	2.461	85.600
232	11.600	38.057	59.930	60.142	1.149	33.980	1.910	66.700
233	11.650	38.221	67.700	67.864	1.235	26.340	1.820	45.300
234	11.700	38.385	59.120	59.244	1.613	19.800	2.723	41.400
235	11.750	38.549	94.550	94.667	2.179	18.690	2.302	31.100
236	11.800	38.713	108.400	108.474	2.668	11.840	2.460	26.700
237	11.850	38.877	107.760	107.848	3.219	14.070	2.985	30.200
238	11.900	39.042	147.130	147.183	4.636	8.410	3.150	24.000
239	11.950	39.206	149.170	149.170	4.058	-0.050	2.720	46.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	37.050	37.301	3.108	40.280	8.332	46.400
241	12.050	39.534	41.980	42.129	1.641	23.930	3.895	55.000
242	12.100	39.698	37.460	37.469	1.313	1.440	3.504	50.600
243	12.150	39.862	31.790	31.817	1.080	4.370	3.394	52.100
244	12.200	40.026	31.900	31.943	1.006	6.870	3.149	43.800
245	12.250	40.190	23.000	22.998	0.876	-0.260	3.809	52.700
246	12.300	40.354	18.610	18.609	0.797	-0.140	4.283	32.100
247	12.350	40.518	28.430	28.457	0.844	4.360	2.966	47.600
248	12.400	40.682	21.680	21.712	1.115	5.190	5.135	46.900
249	12.450	40.846	32.800	32.871	1.068	11.300	3.249	64.100
250	12.500	41.010	29.000	29.090	1.042	14.470	3.582	71.300
251	12.550	41.174	35.590	35.670	0.906	12.770	2.540	56.900
252	12.600	41.338	29.670	29.784	0.933	18.230	3.133	55.700
253	12.650	41.502	27.960	28.113	0.800	24.440	2.846	42.300
254	12.700	41.666	44.600	44.992	1.106	62.780	2.458	36.900
255	12.750	41.830	51.100	51.444	1.495	55.050	2.906	31.100
256	12.800	41.994	87.610	87.732	1.836	19.520	2.093	39.300
257	12.850	42.158	68.690	68.763	2.562	11.690	3.726	54.200
258	12.900	42.322	102.030	102.090	2.597	9.670	2.544	53.000
259	12.950	42.486	26.440	26.588	2.127	23.660	8.000	48.900
260	13.000	42.650	23.110	23.677	1.592	90.750	6.724	0.000
261	13.050	42.814	31.930	32.018	0.816	14.040	2.549	0.000
262	13.100	42.978	28.880	28.943	0.778	10.030	2.688	0.000
263	13.150	43.143	47.350	47.395	1.121	7.200	2.365	0.000
264	13.200	43.307	69.500	69.525	1.185	4.030	1.704	0.000
265	13.250	43.471	57.350	57.382	1.223	5.090	2.131	0.000
266	13.300	43.635	21.890	21.938	0.833	7.670	3.797	0.000
267	13.350	43.799	22.350	22.403	0.648	8.490	2.892	0.000
268	13.400	43.963	25.150	25.206	0.409	9.030	1.623	0.000
269	13.450	44.127	21.180	21.238	0.453	9.270	2.133	0.000
270	13.500	44.291	24.590	24.667	0.705	12.340	2.858	0.000
271	13.550	44.455	29.380	29.513	0.863	21.250	2.924	0.000
272	13.600	44.619	30.660	30.788	0.748	20.490	2.430	0.000
273	13.650	44.783	27.450	27.568	0.721	18.860	2.615	0.000
274	13.700	44.947	26.690	26.802	0.000	17.960	0.000	0.000
275	13.750	45.111	26.860	26.963	0.000	16.520	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221551
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-6-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	10:23
CPT File:	13-53075_GP6-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722118.539
Northing / Lat:	4294326.121
Elevation:	144.059
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.230	2.229	0.022	-0.220	0.987	36.800
2	0.100	0.328	9.980	9.980	0.039	0.010	0.391	50.300
3	0.150	0.492	21.950	21.950	0.226	-0.030	1.030	50.700
4	0.200	0.656	48.090	48.094	0.366	0.640	0.761	68.300
5	0.250	0.820	19.450	19.455	0.448	0.750	2.303	73.900
6	0.300	0.984	18.800	18.814	0.440	2.320	2.339	74.200
7	0.350	1.148	32.410	32.419	0.328	1.380	1.012	91.000
8	0.400	1.312	47.250	47.257	0.379	1.170	0.802	91.700
9	0.450	1.476	56.430	56.436	0.546	0.920	0.967	92.200
10	0.500	1.640	47.120	47.125	0.600	0.760	1.273	91.800
11	0.550	1.804	33.230	33.234	0.600	0.640	1.805	74.700
12	0.600	1.968	24.330	24.332	0.298	0.380	1.225	70.300
13	0.650	2.133	18.120	18.120	0.318	0.020	1.755	55.600
14	0.700	2.297	19.070	19.071	0.308	0.220	1.615	63.400
15	0.750	2.461	20.310	20.313	0.380	0.540	1.871	62.400
16	0.800	2.625	13.000	13.004	0.402	0.680	3.091	62.900
17	0.850	2.789	16.200	16.204	0.382	0.620	2.357	73.800
18	0.900	2.953	13.110	13.128	0.332	2.870	2.529	74.700
19	0.950	3.117	4.290	4.311	0.309	3.360	7.168	77.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	6.190	6.207	0.257	2.650	4.141	90.800
21	1.050	3.445	7.210	7.216	0.190	0.930	2.633	75.700
22	1.100	3.609	8.620	8.624	0.249	0.650	2.887	83.100
23	1.150	3.773	13.520	13.519	0.288	-0.110	2.130	80.900
24	1.200	3.937	15.780	15.766	0.428	-2.270	2.715	81.400
25	1.250	4.101	13.030	12.982	0.393	-7.740	3.027	74.100
26	1.300	4.265	17.640	17.613	0.510	-4.360	2.896	59.200
27	1.350	4.429	19.680	19.643	0.554	-5.960	2.820	45.300
28	1.400	4.593	19.360	19.329	0.515	-4.980	2.664	36.800
29	1.450	4.757	27.410	27.411	0.555	0.120	2.025	28.800
30	1.500	4.921	59.910	59.910	0.841	0.000	1.404	26.600
31	1.550	5.085	44.500	44.504	0.786	0.690	1.766	24.300
32	1.600	5.249	25.610	25.618	1.028	1.360	4.013	26.800
33	1.650	5.413	71.990	71.993	0.372	0.450	0.517	23.600
34	1.700	5.577	82.730	82.732	0.351	0.270	0.424	21.900
35	1.750	5.741	91.810	91.811	0.341	0.230	0.371	19.500
36	1.800	5.905	123.520	123.523	0.380	0.560	0.308	22.700
37	1.850	6.069	154.150	154.154	0.506	0.580	0.328	15.200
38	1.900	6.234	221.650	221.652	0.381	0.360	0.172	17.600
39	1.950	6.398	225.920	225.927	0.469	1.160	0.208	19.200
40	2.000	6.562	229.940	229.942	0.625	0.270	0.272	18.800
41	2.050	6.726	171.560	171.566	0.268	1.020	0.156	26.100
42	2.100	6.890	169.460	169.461	0.319	0.240	0.188	33.200
43	2.150	7.054	213.280	213.282	0.021	0.330	0.010	37.700
44	2.200	7.218	155.200	155.206	0.021	1.030	0.014	50.300
45	2.250	7.382	143.750	143.756	0.022	1.000	0.015	68.100
46	2.300	7.546	123.970	123.985	0.022	2.430	0.018	69.000
47	2.350	7.710	115.050	115.009	0.019	-6.580	0.017	72.400
48	2.400	7.874	105.590	105.588	0.020	-0.370	0.019	72.300
49	2.450	8.038	129.570	129.578	0.021	1.220	0.016	72.100
50	2.500	8.202	130.250	130.253	0.019	0.490	0.015	63.400
51	2.550	8.366	95.020	95.019	0.020	-0.110	0.021	57.300
52	2.600	8.530	96.210	96.214	0.019	0.700	0.020	41.900
53	2.650	8.694	109.600	109.601	0.020	0.150	0.018	30.200
54	2.700	8.858	134.370	134.371	0.895	0.220	0.666	24.000
55	2.750	9.022	186.810	186.807	0.787	-0.500	0.421	23.400
56	2.800	9.186	164.270	164.266	0.567	-0.580	0.345	21.300
57	2.850	9.350	162.780	162.780	0.018	0.060	0.011	14.900
58	2.900	9.514	155.220	155.222	0.018	0.340	0.012	17.000
59	2.950	9.678	172.790	172.805	0.017	2.400	0.010	17.600
60	3.000	9.842	147.780	147.778	0.017	-0.390	0.012	20.100
61	3.050	10.006	106.310	106.319	0.193	1.470	0.182	21.900
62	3.100	10.170	114.040	114.039	0.015	-0.150	0.013	21.900
63	3.150	10.335	100.770	100.768	0.017	-0.250	0.017	28.300
64	3.200	10.499	70.410	70.410	0.017	0.040	0.024	25.400
65	3.250	10.663	56.650	56.647	0.347	-0.540	0.613	32.400
66	3.300	10.827	102.090	102.092	0.521	0.380	0.510	29.900
67	3.350	10.991	81.770	81.769	0.596	-0.240	0.729	35.600
68	3.400	11.155	59.370	59.370	0.837	0.020	1.410	34.300
69	3.450	11.319	59.290	59.290	0.737	0.070	1.243	32.200
70	3.500	11.483	122.700	122.699	1.348	-0.090	1.099	37.100
71	3.550	11.647	203.480	203.483	1.547	0.460	0.760	39.600
72	3.600	11.811	232.320	232.321	0.214	0.140	0.092	42.900
73	3.650	11.975	414.800	414.800	1.380	-0.040	0.333	48.700
74	3.700	12.139	261.980	261.980	1.739	0.020	0.664	53.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	343.780	343.778	1.402	-0.320	0.408	60.400
76	3.800	12.467	229.960	229.967	1.223	1.190	0.532	80.400
77	3.850	12.631	211.870	211.882	0.509	1.920	0.240	73.800
78	3.900	12.795	188.820	188.833	0.448	2.120	0.237	81.800
79	3.950	12.959	166.430	166.441	0.561	1.740	0.337	87.000
80	4.000	13.123	147.400	147.418	0.560	2.820	0.380	90.800
81	4.050	13.287	129.710	129.725	0.753	2.440	0.580	104.300
82	4.100	13.451	119.840	119.832	0.810	-1.340	0.676	85.300
83	4.150	13.615	113.550	113.545	0.802	-0.810	0.706	88.500
84	4.200	13.779	106.220	106.214	0.912	-0.920	0.859	94.600
85	4.250	13.943	112.900	112.893	1.173	-1.130	1.039	88.200
86	4.300	14.107	109.990	109.987	1.067	-0.410	0.970	93.100
87	4.350	14.271	103.570	103.567	0.873	-0.430	0.843	76.100
88	4.400	14.436	108.370	108.367	0.813	-0.520	0.750	82.700
89	4.450	14.600	110.270	110.267	0.925	-0.460	0.839	68.000
90	4.500	14.764	118.600	118.596	1.385	-0.610	1.168	68.200
91	4.550	14.928	124.010	124.006	1.727	-0.630	1.393	65.100
92	4.600	15.092	122.240	122.237	1.871	-0.500	1.531	65.000
93	4.650	15.256	145.770	145.767	0.693	-0.520	0.475	71.200
94	4.700	15.420	146.310	146.308	1.459	-0.320	0.997	84.600
95	4.750	15.584	155.760	155.758	1.077	-0.360	0.691	95.600
96	4.800	15.748	191.250	191.251	1.486	0.180	0.777	89.200
97	4.850	15.912	194.540	194.541	1.490	0.230	0.766	79.000
98	4.900	16.076	210.440	210.443	1.522	0.460	0.723	57.600
99	4.950	16.240	229.470	229.472	0.474	0.390	0.207	42.700
100	5.000	16.404	204.220	204.221	0.060	0.220	0.029	36.200
101	5.050	16.568	239.360	239.362	0.559	0.290	0.234	32.900
102	5.100	16.732	260.860	260.861	0.915	0.240	0.351	25.500
103	5.150	16.896	187.850	187.851	0.769	0.120	0.409	25.700
104	5.200	17.060	142.470	142.475	0.016	0.770	0.011	24.000
105	5.250	17.224	121.390	121.400	0.115	1.680	0.095	20.800
106	5.300	17.388	131.060	131.068	1.228	1.270	0.937	22.000
107	5.350	17.552	215.550	215.556	0.099	1.020	0.046	31.100
108	5.400	17.716	166.960	166.964	0.015	0.650	0.009	29.200
109	5.450	17.880	90.300	90.302	0.026	0.330	0.029	41.200
110	5.500	18.044	89.960	89.961	0.026	0.160	0.029	46.400
111	5.550	18.208	121.410	121.416	0.014	0.920	0.012	58.400
112	5.600	18.372	112.080	112.081	0.014	0.200	0.012	57.900
113	5.650	18.537	81.120	81.127	0.014	1.200	0.017	69.300
114	5.700	18.701	89.640	89.629	0.012	-1.780	0.013	65.800
115	5.750	18.865	73.270	73.213	0.010	-9.060	0.014	64.700
116	5.800	19.029	80.580	80.523	0.012	-9.120	0.015	62.700
117	5.850	19.193	91.870	91.787	0.013	-13.350	0.014	59.300
118	5.900	19.357	89.170	89.078	0.014	-14.790	0.016	68.900
119	5.950	19.521	82.910	82.849	0.012	-9.720	0.014	76.600
120	6.000	19.685	80.720	80.666	0.012	-8.610	0.015	74.100
121	6.050	19.849	75.010	74.962	0.014	-7.610	0.019	75.700
122	6.100	20.013	70.450	70.404	0.176	-7.290	0.250	65.200
123	6.150	20.177	64.500	64.445	0.552	-8.840	0.857	63.300
124	6.200	20.341	107.420	107.389	0.540	-4.900	0.503	64.100
125	6.250	20.505	190.060	190.055	0.104	-0.770	0.055	56.900
126	6.300	20.669	198.410	198.407	0.013	-0.560	0.007	39.500
127	6.350	20.833	136.600	136.600	0.014	-0.060	0.010	32.000
128	6.400	20.997	91.030	91.028	0.015	-0.280	0.016	34.900
129	6.450	21.161	85.600	85.599	0.015	-0.180	0.018	24.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	96.970	96.971	0.014	0.150	0.014	23.400
131	6.550	21.489	94.040	94.041	0.018	0.230	0.019	23.500
132	6.600	21.653	92.040	92.028	0.015	-1.910	0.016	24.500
133	6.650	21.817	87.730	87.712	0.019	-2.890	0.022	23.100
134	6.700	21.981	78.210	78.208	0.017	-0.330	0.022	24.700
135	6.750	22.145	62.120	62.120	0.020	0.060	0.032	23.700
136	6.800	22.309	61.380	61.380	0.019	0.020	0.031	23.600
137	6.850	22.473	69.340	69.341	0.024	0.090	0.035	26.400
138	6.900	22.638	72.840	72.840	0.059	0.040	0.081	30.100
139	6.950	22.802	102.440	102.430	0.023	-1.610	0.022	41.100
140	7.000	22.966	124.090	124.081	0.018	-1.460	0.015	53.200
141	7.050	23.130	130.370	130.366	0.019	-0.590	0.015	63.400
142	7.100	23.294	114.880	114.881	0.017	0.150	0.015	99.300
143	7.150	23.458	110.250	110.258	0.024	1.320	0.022	103.700
144	7.200	23.622	101.870	101.832	0.148	-6.070	0.145	86.400
145	7.250	23.786	112.460	112.413	0.222	-7.540	0.197	67.400
146	7.300	23.950	110.330	110.301	0.057	-4.640	0.052	45.500
147	7.350	24.114	122.770	122.762	0.017	-1.260	0.014	41.800
148	7.400	24.278	108.120	108.117	0.017	-0.420	0.016	33.000
149	7.450	24.442	98.710	98.703	0.241	-1.060	0.244	25.100
150	7.500	24.606	82.200	82.205	0.047	0.840	0.057	23.400
151	7.550	24.770	104.490	104.487	0.160	-0.410	0.153	26.700
152	7.600	24.934	110.220	110.219	0.284	-0.110	0.258	24.200
153	7.650	25.098	131.280	131.284	0.712	0.650	0.542	25.400
154	7.700	25.262	118.870	118.874	1.018	0.710	0.856	27.800
155	7.750	25.426	108.720	108.724	0.292	0.600	0.269	21.600
156	7.800	25.590	90.550	90.555	0.028	0.810	0.031	34.400
157	7.850	25.754	98.010	98.015	0.017	0.770	0.017	47.700
158	7.900	25.918	93.650	93.655	0.019	0.780	0.020	41.200
159	7.950	26.082	91.650	91.655	0.029	0.780	0.032	40.400
160	8.000	26.246	109.350	109.356	0.060	0.970	0.055	35.300
161	8.050	26.410	109.060	109.067	0.139	1.090	0.127	34.600
162	8.100	26.574	93.940	93.948	0.425	1.330	0.452	40.000
163	8.150	26.739	113.340	113.350	0.277	1.570	0.244	43.800
164	8.200	26.903	131.780	131.784	0.154	0.710	0.117	49.000
165	8.250	27.067	107.050	107.054	0.077	0.640	0.072	49.200
166	8.300	27.231	107.670	107.679	0.144	1.370	0.134	49.600
167	8.350	27.395	116.970	116.972	0.017	0.360	0.015	45.000
168	8.400	27.559	109.830	109.818	0.019	-2.000	0.017	47.200
169	8.450	27.723	94.370	94.374	0.017	0.570	0.018	42.200
170	8.500	27.887	99.140	99.155	0.020	2.350	0.020	42.200
171	8.550	28.051	96.150	96.162	0.054	1.970	0.056	31.500
172	8.600	28.215	109.810	109.802	0.250	-1.360	0.228	35.500
173	8.650	28.379	104.410	104.408	0.718	-0.300	0.688	27.800
174	8.700	28.543	83.860	83.862	0.748	0.380	0.892	39.600
175	8.750	28.707	71.510	71.519	0.654	1.380	0.914	34.800
176	8.800	28.871	53.890	53.907	0.309	2.650	0.573	51.100
177	8.850	29.035	55.290	55.295	0.232	0.790	0.420	62.800
178	8.900	29.199	64.510	64.511	0.338	0.090	0.524	57.000
179	8.950	29.363	58.790	58.797	0.418	1.050	0.711	62.600
180	9.000	29.527	61.130	61.125	0.182	-0.860	0.298	61.400
181	9.050	29.691	65.670	65.648	0.334	-3.580	0.509	66.900
182	9.100	29.855	66.150	66.159	0.245	1.370	0.370	55.900
183	9.150	30.019	59.690	59.700	0.430	1.610	0.720	59.900
184	9.200	30.183	66.040	66.048	0.623	1.340	0.943	54.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	82.800	82.815	0.719	2.420	0.868	59.000
186	9.300	30.511	99.470	99.469	0.657	-0.160	0.661	55.600
187	9.350	30.675	114.420	114.418	0.931	-0.320	0.814	56.300
188	9.400	30.840	138.340	138.340	0.928	0.070	0.671	64.900
189	9.450	31.004	145.510	145.510	0.678	-0.010	0.466	61.500
190	9.500	31.168	152.390	152.380	0.415	-1.560	0.272	63.800
191	9.550	31.332	155.070	155.095	0.014	3.970	0.009	62.700
192	9.600	31.496	130.070	130.093	0.015	3.720	0.012	70.200
193	9.650	31.660	121.450	121.450	0.026	0.030	0.021	71.900
194	9.700	31.824	89.020	89.024	0.017	0.690	0.019	64.800
195	9.750	31.988	77.730	77.738	0.240	1.330	0.309	67.600
196	9.800	32.152	77.620	77.631	0.721	1.770	0.929	57.800
197	9.850	32.316	69.060	69.114	1.022	8.690	1.479	57.800
198	9.900	32.480	68.230	68.264	1.101	5.370	1.613	42.100
199	9.950	32.644	107.100	107.181	0.921	12.970	0.859	42.700
200	10.000	32.808	90.980	91.038	0.602	9.350	0.661	38.500
201	10.050	32.972	75.490	75.548	0.462	9.230	0.612	41.900
202	10.100	33.136	82.200	82.259	0.614	9.520	0.746	44.500
203	10.150	33.300	85.950	85.992	0.718	6.700	0.835	43.800
204	10.200	33.464	84.930	84.955	0.571	4.070	0.672	45.000
205	10.250	33.628	83.660	83.682	0.345	3.560	0.412	45.600
206	10.300	33.792	91.240	91.271	0.123	4.970	0.135	47.600
207	10.350	33.956	95.720	95.750	0.528	4.740	0.551	48.500
208	10.400	34.120	105.820	105.834	0.954	2.260	0.901	47.400
209	10.450	34.284	119.160	119.169	0.185	1.410	0.155	54.600
210	10.500	34.448	122.770	122.778	0.466	1.280	0.380	54.400
211	10.550	34.612	112.960	112.970	1.091	1.680	0.966	50.600
212	10.600	34.776	103.940	103.951	1.794	1.800	1.726	46.500
213	10.650	34.941	123.050	123.063	1.770	2.110	1.438	47.100
214	10.700	35.105	158.460	158.471	1.561	1.720	0.985	47.800
215	10.750	35.269	247.030	247.039	1.403	1.410	0.568	48.000
216	10.800	35.433	340.930	340.938	0.014	1.280	0.004	48.900
217	10.850	35.597	290.460	290.470	0.014	1.680	0.005	46.500
218	10.900	35.761	242.780	242.788	0.016	1.350	0.007	51.200
219	10.950	35.925	210.870	210.880	0.015	1.660	0.007	51.700
220	11.000	36.089	184.790	184.797	0.042	1.170	0.023	45.500
221	11.050	36.253	178.930	178.937	0.199	1.050	0.111	42.100
222	11.100	36.417	131.010	131.015	0.310	0.850	0.237	39.800
223	11.150	36.581	99.190	99.195	0.066	0.780	0.067	38.400
224	11.200	36.745	83.200	83.205	0.269	0.740	0.323	40.500
225	11.250	36.909	83.820	83.825	1.102	0.820	1.315	39.900
226	11.300	37.073	104.500	104.506	1.287	0.890	1.232	50.000
227	11.350	37.237	143.860	143.865	0.013	0.750	0.009	50.400
228	11.400	37.401	179.380	179.388	0.014	1.350	0.008	55.600
229	11.450	37.565	85.200	85.205	0.013	0.760	0.015	54.300
230	11.500	37.729	72.280	72.287	0.014	1.050	0.019	52.600
231	11.550	37.893	77.250	77.297	0.194	7.590	0.251	35.600
232	11.600	38.057	64.340	64.372	0.347	5.050	0.539	40.500
233	11.650	38.221	65.490	65.511	0.375	3.380	0.572	23.400
234	11.700	38.385	148.840	148.860	0.316	3.240	0.212	28.000
235	11.750	38.549	145.600	145.619	0.688	3.070	0.472	23.400
236	11.800	38.713	99.020	99.038	0.657	2.870	0.663	25.800
237	11.850	38.877	113.660	113.676	0.506	2.550	0.445	24.700
238	11.900	39.042	134.270	134.284	0.248	2.310	0.185	37.900
239	11.950	39.206	134.970	134.984	0.215	2.260	0.159	41.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	116.060	116.074	0.098	2.230	0.084	59.400
241	12.050	39.534	111.800	111.813	0.206	2.070	0.184	67.500
242	12.100	39.698	114.830	114.842	0.330	1.910	0.287	70.000
243	12.150	39.862	114.620	114.630	0.609	1.620	0.531	72.300
244	12.200	40.026	115.740	115.750	0.666	1.600	0.575	79.800
245	12.250	40.190	118.560	118.568	0.716	1.330	0.604	67.500
246	12.300	40.354	125.740	125.748	0.905	1.210	0.720	68.400
247	12.350	40.518	135.350	135.357	0.973	1.120	0.719	68.600
248	12.400	40.682	139.330	139.336	0.830	1.000	0.596	64.900
249	12.450	40.846	139.660	139.667	0.849	1.070	0.608	78.200
250	12.500	41.010	144.640	144.647	0.811	1.090	0.561	68.000
251	12.550	41.174	148.260	148.268	0.623	1.210	0.420	66.900
252	12.600	41.338	156.390	156.396	0.706	0.960	0.451	76.900
253	12.650	41.502	162.420	162.425	0.890	0.820	0.548	67.700
254	12.700	41.666	164.550	164.555	1.245	0.780	0.757	73.000
255	12.750	41.830	150.920	150.928	1.290	1.350	0.855	71.800
256	12.800	41.994	138.090	138.098	0.836	1.230	0.605	63.200
257	12.850	42.158	130.180	130.186	0.227	0.980	0.174	63.700
258	12.900	42.322	132.940	132.947	0.180	1.060	0.135	50.500
259	12.950	42.486	127.510	127.518	0.441	1.350	0.346	38.700
260	13.000	42.650	122.130	122.143	0.592	2.120	0.485	28.300
261	13.050	42.814	127.570	127.587	1.262	2.650	0.989	19.000
262	13.100	42.978	115.280	115.300	1.026	3.220	0.890	21.200
263	13.150	43.143	127.700	127.725	1.671	3.960	1.308	23.800
264	13.200	43.307	142.470	142.477	2.406	1.200	1.689	24.400
265	13.250	43.471	162.180	162.200	2.415	3.190	1.489	30.600
266	13.300	43.635	204.440	204.465	1.867	4.070	0.913	43.800
267	13.350	43.799	176.800	176.827	1.595	4.260	0.902	56.000
268	13.400	43.963	167.280	167.306	1.525	4.160	0.912	50.600
269	13.450	44.127	128.940	128.965	0.413	4.060	0.320	51.900
270	13.500	44.291	131.370	131.397	0.239	4.370	0.182	42.700
271	13.550	44.455	128.480	128.510	0.670	4.750	0.521	30.100
272	13.600	44.619	170.130	170.159	1.964	4.640	1.154	17.900
273	13.650	44.783	177.390	177.420	1.990	4.740	1.122	19.900
274	13.700	44.947	178.050	178.079	1.927	4.630	1.082	22.700
275	13.750	45.111	196.330	196.358	1.675	4.530	0.853	19.900
276	13.800	45.275	207.760	207.790	1.556	4.740	0.749	20.900
277	13.850	45.439	192.630	192.658	1.402	4.520	0.728	25.000
278	13.900	45.603	192.470	192.500	0.551	4.790	0.286	22.800
279	13.950	45.767	182.450	182.480	0.507	4.760	0.278	23.800
280	14.000	45.931	176.800	176.825	0.779	4.000	0.441	22.000
281	14.050	46.095	182.060	182.082	0.856	3.550	0.470	22.700
282	14.100	46.259	169.150	169.175	1.083	4.050	0.640	0.000
283	14.150	46.423	158.810	158.832	0.794	3.480	0.500	0.000
284	14.200	46.587	171.000	171.023	0.251	3.640	0.147	0.000
285	14.250	46.751	163.570	163.593	0.014	3.680	0.009	0.000
286	14.300	46.915	166.780	166.804	0.143	3.770	0.086	0.000
287	14.350	47.079	161.600	161.623	0.197	3.670	0.122	0.000
288	14.400	47.244	138.700	138.712	0.844	1.980	0.608	0.000
289	14.450	47.408	132.470	132.483	0.851	2.100	0.642	0.000
290	14.500	47.572	100.530	100.558	1.168	4.460	1.162	0.000
291	14.550	47.736	86.560	86.588	1.129	4.430	1.304	0.000
292	14.600	47.900	127.000	127.026	1.147	4.140	0.903	0.000
293	14.650	48.064	170.310	170.330	1.167	3.270	0.685	0.000
294	14.700	48.228	200.800	200.821	1.538	3.420	0.766	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	222.970	222.993	1.931	3.680	0.866	0.000
296	14.800	48.556	253.800	253.824	0.020	3.870	0.008	0.000
297	14.850	48.720	316.940	316.964	0.020	3.830	0.006	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221553
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-6-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	13:16
CPT File:	13-53075_GP6-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722114.339
Northing / Lat:	4294303.925
Elevation:	144.377
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	12.830	12.830	0.098	0.040	0.764	27.100
2	0.100	0.328	69.470	69.470	0.268	0.030	0.386	37.500
3	0.150	0.492	54.500	54.502	0.390	0.290	0.716	47.700
4	0.200	0.656	46.970	46.971	0.483	0.130	1.028	52.800
5	0.250	0.820	49.690	49.690	0.529	-0.010	1.065	60.600
6	0.300	0.984	23.740	23.759	0.726	3.030	3.056	86.900
7	0.350	1.148	21.320	21.328	0.793	1.320	3.718	84.500
8	0.400	1.312	48.230	48.240	0.700	1.660	1.451	75.300
9	0.450	1.476	93.620	93.622	0.989	0.290	1.056	99.700
10	0.500	1.640	112.680	112.694	1.263	2.310	1.121	80.100
11	0.550	1.804	121.600	121.598	1.453	-0.290	1.195	89.600
12	0.600	1.968	125.390	125.385	1.652	-0.770	1.318	97.300
13	0.650	2.133	118.420	118.413	1.825	-1.110	1.541	97.300
14	0.700	2.297	98.000	97.988	1.638	-1.910	1.672	90.400
15	0.750	2.461	76.200	76.184	1.176	-2.500	1.544	84.900
16	0.800	2.625	66.750	66.742	1.013	-1.350	1.518	71.400
17	0.850	2.789	51.960	51.960	1.138	-0.070	2.190	63.700
18	0.900	2.953	32.450	32.454	1.109	0.610	3.417	49.000
19	0.950	3.117	29.500	29.497	1.107	-0.430	3.753	41.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	24.920	24.925	0.981	0.810	3.936	29.500
21	1.050	3.445	34.060	34.066	1.214	0.990	3.564	20.900
22	1.100	3.609	55.680	55.671	1.086	-1.410	1.951	21.500
23	1.150	3.773	53.680	53.657	1.549	-3.620	2.887	19.300
24	1.200	3.937	66.390	66.376	1.711	-2.250	2.578	15.900
25	1.250	4.101	32.790	32.785	1.485	-0.810	4.530	18.300
26	1.300	4.265	18.000	18.000	0.860	0.080	4.778	13.700
27	1.350	4.429	30.340	30.339	0.936	-0.210	3.085	19.200
28	1.400	4.593	31.460	31.488	0.969	4.480	3.077	17.700
29	1.450	4.757	23.070	23.072	0.847	0.270	3.671	19.100
30	1.500	4.921	10.640	10.648	0.698	1.300	6.555	15.900
31	1.550	5.085	9.960	9.953	0.406	-1.160	4.079	28.800
32	1.600	5.249	6.960	6.959	0.298	-0.100	4.282	28.400
33	1.650	5.413	15.950	15.949	0.369	-0.200	2.314	25.300
34	1.700	5.577	17.410	17.412	0.352	0.270	2.022	39.800
35	1.750	5.741	28.310	28.340	0.390	4.840	1.376	45.300
36	1.800	5.905	36.370	36.332	0.441	-6.020	1.214	59.800
37	1.850	6.069	38.270	38.229	0.423	-6.610	1.106	69.800
38	1.900	6.234	12.280	12.238	0.357	-6.790	2.917	82.100
39	1.950	6.398	21.780	21.735	0.177	-7.220	0.814	89.400
40	2.000	6.562	8.960	8.966	0.219	0.960	2.443	81.700
41	2.050	6.726	8.460	8.464	0.178	0.580	2.103	81.000
42	2.100	6.890	8.770	8.773	0.196	0.450	2.234	70.300
43	2.150	7.054	32.650	32.647	0.519	-0.460	1.590	71.500
44	2.200	7.218	22.360	22.376	0.721	2.580	3.222	69.600
45	2.250	7.382	27.760	27.769	0.875	1.380	3.151	80.300
46	2.300	7.546	24.200	24.197	0.804	-0.450	3.323	89.900
47	2.350	7.710	25.690	25.674	0.632	-2.630	2.462	82.700
48	2.400	7.874	26.860	26.782	0.399	-12.520	1.490	85.100
49	2.450	8.038	16.250	16.253	0.156	0.420	0.960	72.200
50	2.500	8.202	9.480	9.482	0.128	0.260	1.350	59.200
51	2.550	8.366	7.020	7.023	0.066	0.470	0.940	44.700
52	2.600	8.530	13.720	13.706	0.194	-2.310	1.415	37.100
53	2.650	8.694	14.050	14.042	0.148	-1.260	1.054	38.600
54	2.700	8.858	13.200	13.197	0.127	-0.440	0.962	22.100
55	2.750	9.022	17.670	17.666	0.162	-0.680	0.917	25.400
56	2.800	9.186	23.710	23.711	0.203	0.130	0.856	23.300
57	2.850	9.350	14.930	14.937	0.179	1.140	1.198	33.100
58	2.900	9.514	12.690	12.699	0.154	1.410	1.213	33.400
59	2.950	9.678	8.060	8.073	0.094	2.070	1.164	45.100
60	3.000	9.842	3.710	3.729	0.095	3.020	2.548	63.000
61	3.050	10.006	6.190	6.215	0.110	4.040	1.770	73.900
62	3.100	10.170	7.570	7.550	0.168	-3.190	2.225	71.200
63	3.150	10.335	7.890	7.838	0.189	-8.290	2.411	67.100
64	3.200	10.499	7.580	7.543	0.201	-5.890	2.665	60.600
65	3.250	10.663	10.200	10.187	0.187	-2.150	1.836	56.900
66	3.300	10.827	11.170	11.152	0.214	-2.920	1.919	46.000
67	3.350	10.991	7.310	7.308	0.269	-0.300	3.681	39.200
68	3.400	11.155	13.100	13.101	0.508	0.220	3.877	31.400
69	3.450	11.319	36.070	36.071	0.756	0.120	2.096	22.400
70	3.500	11.483	42.550	42.536	0.837	-2.280	1.968	18.100
71	3.550	11.647	46.030	46.033	1.215	0.460	2.639	21.400
72	3.600	11.811	69.890	69.905	1.619	2.410	2.316	13.600
73	3.650	11.975	91.920	91.885	2.551	-5.530	2.776	10.300
74	3.700	12.139	93.140	93.128	3.123	-1.930	3.353	18.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	90.670	90.605	2.971	-10.430	3.279	19.200
76	3.800	12.467	83.400	83.305	2.135	-15.250	2.563	30.100
77	3.850	12.631	55.950	55.847	1.582	-16.450	2.833	34.700
78	3.900	12.795	51.790	51.788	1.400	-0.330	2.703	59.400
79	3.950	12.959	62.840	62.850	0.575	1.590	0.915	62.800
80	4.000	13.123	56.580	56.514	0.474	-10.520	0.839	68.300
81	4.050	13.287	5.970	5.969	0.208	-0.180	3.485	68.700
82	4.100	13.451	5.510	5.506	0.288	-0.670	5.231	68.300
83	4.150	13.615	4.640	4.620	0.252	-3.150	5.454	51.400
84	4.200	13.779	9.130	9.114	0.155	-2.620	1.701	43.500
85	4.250	13.943	10.040	10.038	0.166	-0.320	1.654	40.300
86	4.300	14.107	15.730	15.725	0.144	-0.830	0.916	30.800
87	4.350	14.271	23.160	23.155	0.325	-0.820	1.404	30.700
88	4.400	14.436	24.870	24.865	0.267	-0.760	1.074	32.200
89	4.450	14.600	11.160	11.158	0.584	-0.390	5.234	29.200
90	4.500	14.764	32.150	32.149	0.462	-0.170	1.437	19.900
91	4.550	14.928	17.070	17.069	0.568	-0.150	3.328	22.200
92	4.600	15.092	6.400	6.398	0.340	-0.390	5.315	16.400
93	4.650	15.256	4.310	4.307	0.169	-0.530	3.924	30.000
94	4.700	15.420	5.240	5.242	0.125	0.350	2.385	25.100
95	4.750	15.584	28.480	28.484	0.466	0.620	1.636	32.700
96	4.800	15.748	27.590	27.591	0.551	0.090	1.997	44.400
97	4.850	15.912	13.510	13.511	0.405	0.100	2.998	55.100
98	4.900	16.076	8.500	8.519	0.322	3.100	3.780	66.300
99	4.950	16.240	11.280	11.297	0.325	2.790	2.877	80.500
100	5.000	16.404	22.730	22.725	0.423	-0.770	1.861	67.900
101	5.050	16.568	39.210	39.193	0.624	-2.690	1.592	77.600
102	5.100	16.732	50.040	50.007	0.863	-5.340	1.726	76.600
103	5.150	16.896	48.440	48.405	0.975	-5.560	2.014	79.000
104	5.200	17.060	42.720	42.682	1.019	-6.120	2.387	77.300
105	5.250	17.224	38.990	38.924	0.821	-10.540	2.109	74.500
106	5.300	17.388	30.380	30.311	0.606	-11.010	1.999	78.100
107	5.350	17.552	26.790	26.724	0.568	-10.560	2.125	65.900
108	5.400	17.716	25.340	25.279	0.596	-9.850	2.358	72.300
109	5.450	17.880	26.200	26.141	0.668	-9.410	2.555	76.400
110	5.500	18.044	26.260	26.204	1.038	-9.020	3.961	66.100
111	5.550	18.208	36.760	36.693	1.163	-10.810	3.170	65.400
112	5.600	18.372	29.970	29.898	1.067	-11.570	3.569	69.600
113	5.650	18.537	27.690	27.618	1.169	-11.470	4.233	58.800
114	5.700	18.701	43.710	43.637	1.463	-11.740	3.353	61.700
115	5.750	18.865	55.620	55.511	1.607	-17.400	2.895	60.900
116	5.800	19.029	49.290	49.171	1.759	-19.030	3.577	57.400
117	5.850	19.193	43.010	42.895	1.683	-18.480	3.924	73.400
118	5.900	19.357	43.180	43.066	1.774	-18.280	4.119	77.500
119	5.950	19.521	44.070	43.964	1.496	-17.020	3.403	72.700
120	6.000	19.685	72.000	71.900	1.416	-15.960	1.969	82.800
121	6.050	19.849	50.630	50.530	1.263	-16.000	2.499	69.200
122	6.100	20.013	33.730	33.643	1.254	-13.960	3.727	84.500
123	6.150	20.177	29.730	29.651	1.195	-12.620	4.030	78.700
124	6.200	20.341	25.840	25.815	0.825	-4.070	3.196	93.300
125	6.250	20.505	29.690	29.652	0.596	-6.050	2.010	94.800
126	6.300	20.669	30.860	30.864	0.607	0.680	1.967	130.200
127	6.350	20.833	27.900	27.906	0.730	0.960	2.616	129.300
128	6.400	20.997	20.150	20.159	0.593	1.450	2.942	147.600
129	6.450	21.161	11.830	11.836	0.214	1.040	1.808	134.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	30.180	30.188	0.206	1.330	0.682	160.900
131	6.550	21.489	10.640	10.657	0.309	2.760	2.899	160.100
132	6.600	21.653	18.460	18.478	0.515	2.910	2.787	141.800
133	6.650	21.817	29.250	29.277	0.778	4.250	2.657	138.700
134	6.700	21.981	32.880	32.861	0.912	-3.040	2.775	122.300
135	6.750	22.145	29.010	28.989	0.865	-3.400	2.984	114.900
136	6.800	22.309	22.470	22.430	0.761	-6.480	3.393	104.800
137	6.850	22.473	16.760	16.672	0.611	-14.030	3.665	99.300
138	6.900	22.638	14.930	14.843	0.485	-13.980	3.268	95.500
139	6.950	22.802	11.850	11.764	0.463	-13.780	3.936	101.100
140	7.000	22.966	10.630	10.550	0.493	-12.750	4.673	85.400
141	7.050	23.130	17.310	17.232	0.485	-12.480	2.815	67.200
142	7.100	23.294	35.880	35.899	0.784	2.990	2.184	67.800
143	7.150	23.458	38.110	38.131	0.920	3.410	2.413	63.900
144	7.200	23.622	27.900	27.925	0.931	3.960	3.334	59.500
145	7.250	23.786	17.520	17.548	0.906	4.500	5.163	57.700
146	7.300	23.950	16.380	16.400	0.818	3.270	4.988	56.400
147	7.350	24.114	18.050	18.072	0.843	3.470	4.665	64.900
148	7.400	24.278	32.240	32.268	0.735	4.440	2.278	65.800
149	7.450	24.442	41.110	41.124	0.534	2.210	1.299	83.900
150	7.500	24.606	32.710	32.713	0.683	0.460	2.088	81.300
151	7.550	24.770	21.490	21.523	0.725	5.330	3.368	88.700
152	7.600	24.934	22.160	22.183	0.757	3.660	3.413	78.600
153	7.650	25.098	17.420	17.463	0.796	6.920	4.558	88.000
154	7.700	25.262	21.790	21.848	0.824	9.240	3.772	64.600
155	7.750	25.426	21.750	21.769	0.923	3.000	4.240	77.000
156	7.800	25.590	22.760	22.737	1.125	-3.650	4.948	81.700
157	7.850	25.754	27.910	27.881	1.856	-4.640	6.657	74.400
158	7.900	25.918	41.810	41.775	2.256	-5.600	5.400	67.800
159	7.950	26.082	33.570	33.514	1.997	-9.020	5.959	65.600
160	8.000	26.246	24.950	24.890	1.101	-9.650	4.424	68.600
161	8.050	26.410	43.500	43.506	0.931	0.900	2.140	66.300
162	8.100	26.574	46.640	46.657	0.730	2.770	1.565	71.300
163	8.150	26.739	27.360	27.377	0.600	2.770	2.192	78.500
164	8.200	26.903	39.490	39.508	0.700	2.920	1.772	136.000
165	8.250	27.067	36.610	36.628	0.778	2.820	2.124	182.600
166	8.300	27.231	18.020	18.044	0.951	3.910	5.270	256.600
167	8.350	27.395	19.490	19.521	0.705	5.040	3.611	417.000
168	8.400	27.559	16.660	16.703	0.619	6.830	3.706	760.700
169	8.450	27.723	12.350	12.395	0.459	7.240	3.703	1312.200
170	8.500	27.887	10.210	10.170	0.445	-6.450	4.376	1720.300
171	8.550	28.051	14.540	14.520	0.447	-3.190	3.078	1366.600
172	8.600	28.215	16.890	16.870	0.389	-3.210	2.306	813.700
173	8.650	28.379	12.890	12.865	0.507	-3.940	3.941	541.400
174	8.700	28.543	10.620	10.636	0.373	2.610	3.507	395.600
175	8.750	28.707	10.620	10.634	0.520	2.170	4.890	275.100
176	8.800	28.871	34.950	34.966	0.989	2.550	2.828	207.400
177	8.850	29.035	39.720	39.736	1.470	2.540	3.699	146.400
178	8.900	29.199	39.070	39.100	1.452	4.830	3.714	115.300
179	8.950	29.363	20.430	20.467	1.185	5.950	5.790	105.000
180	9.000	29.527	24.760	24.782	0.943	3.580	3.805	85.800
181	9.050	29.691	24.950	24.964	0.483	2.190	1.935	73.600
182	9.100	29.855	50.300	50.315	0.661	2.450	1.314	73.000
183	9.150	30.019	76.230	76.251	0.615	3.300	0.807	58.600
184	9.200	30.183	45.090	45.119	0.492	4.620	1.090	55.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	39.060	39.084	0.407	3.860	1.041	54.500
186	9.300	30.511	47.100	47.122	0.350	3.480	0.743	38.700
187	9.350	30.675	37.470	37.490	0.241	3.170	0.643	35.200
188	9.400	30.840	38.800	38.820	0.433	3.260	1.115	35.200
189	9.450	31.004	11.840	11.865	0.348	3.970	2.933	31.800
190	9.500	31.168	14.900	14.917	0.457	2.780	3.064	32.400
191	9.550	31.332	26.990	27.014	0.531	3.890	1.966	31.200
192	9.600	31.496	31.470	31.498	0.738	4.450	2.343	30.300
193	9.650	31.660	44.170	44.198	1.007	4.420	2.278	22.200
194	9.700	31.824	43.370	43.407	1.328	5.940	3.059	23.400
195	9.750	31.988	60.710	60.770	1.806	9.580	2.972	21.100
196	9.800	32.152	45.700	45.730	1.742	4.800	3.809	19.100
197	9.850	32.316	65.560	65.601	1.964	6.620	2.994	17.200
198	9.900	32.480	58.890	58.930	1.882	6.350	3.194	17.000
199	9.950	32.644	59.780	59.820	1.883	6.400	3.148	9.600
200	10.000	32.808	65.590	65.626	1.533	5.710	2.336	12.700
201	10.050	32.972	98.860	98.907	2.547	7.480	2.575	11.700
202	10.100	33.136	191.020	191.044	4.194	3.840	2.195	14.200
203	10.150	33.300	176.310	176.324	5.347	2.260	3.032	14.700
204	10.200	33.464	166.720	166.771	5.878	8.120	3.525	19.600
205	10.250	33.628	125.940	125.972	5.473	5.170	4.345	22.900
206	10.300	33.792	114.550	114.624	3.980	11.830	3.472	25.600
207	10.350	33.956	81.050	81.077	2.724	4.400	3.360	32.200
208	10.400	34.120	59.170	59.197	1.222	4.340	2.064	35.500
209	10.450	34.284	69.740	69.766	1.274	4.090	1.826	33.600
210	10.500	34.448	75.890	75.925	0.592	5.680	0.780	33.800
211	10.550	34.612	42.210	42.243	0.882	5.240	2.088	42.900
212	10.600	34.776	42.330	42.366	0.944	5.830	2.228	43.200
213	10.650	34.941	45.490	45.530	1.458	6.400	3.202	53.500
214	10.700	35.105	52.430	52.444	1.355	2.210	2.584	57.100
215	10.750	35.269	96.340	96.314	2.092	-4.180	2.172	52.300
216	10.800	35.433	101.520	101.477	2.771	-6.830	2.731	47.800
217	10.850	35.597	68.060	68.006	2.921	-8.730	4.295	47.500
218	10.900	35.761	46.230	46.161	2.706	-11.010	5.862	47.500
219	10.950	35.925	29.160	29.115	1.415	-7.180	4.860	42.400
220	11.000	36.089	47.380	47.342	1.163	-6.070	2.457	25.500
221	11.050	36.253	76.000	76.022	1.381	3.560	1.817	24.200
222	11.100	36.417	98.440	98.481	1.156	6.560	1.174	25.500
223	11.150	36.581	44.050	44.081	1.219	4.890	2.765	19.700
224	11.200	36.745	73.230	73.264	1.322	5.490	1.804	22.200
225	11.250	36.909	80.560	80.592	1.812	5.200	2.248	20.100
226	11.300	37.073	117.880	117.918	2.348	6.120	1.991	19.200
227	11.350	37.237	93.580	93.621	2.228	6.550	2.380	21.700
228	11.400	37.401	15.220	15.263	1.818	6.810	11.912	38.200
229	11.450	37.565	16.590	16.619	1.100	4.570	6.619	36.100
230	11.500	37.729	17.260	17.293	0.429	5.220	2.481	43.500
231	11.550	37.893	22.020	22.061	0.601	6.590	2.724	40.800
232	11.600	38.057	18.400	18.381	0.425	-3.110	2.312	50.100
233	11.650	38.221	42.100	42.077	0.396	-3.760	0.941	48.600
234	11.700	38.385	35.910	35.934	0.627	3.850	1.745	33.700
235	11.750	38.549	22.580	22.603	1.152	3.720	5.097	27.900
236	11.800	38.713	34.120	34.159	1.068	6.210	3.127	20.000
237	11.850	38.877	63.390	63.429	1.374	6.170	2.166	15.100
238	11.900	39.042	85.640	85.676	1.503	5.790	1.754	13.300
239	11.950	39.206	67.820	67.863	1.325	6.960	1.952	9.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	25.570	25.611	0.960	6.610	3.748	8.600
241	12.050	39.534	21.350	21.386	0.602	5.840	2.815	11.800
242	12.100	39.698	11.710	11.740	0.545	4.820	4.642	10.000
243	12.150	39.862	37.610	37.643	0.613	5.270	1.628	19.300
244	12.200	40.026	21.960	21.981	0.664	3.440	3.021	17.000
245	12.250	40.190	20.180	20.202	0.824	3.490	4.079	17.800
246	12.300	40.354	36.250	36.274	0.972	3.800	2.680	16.900
247	12.350	40.518	27.210	27.237	1.090	4.290	4.002	21.900
248	12.400	40.682	26.430	26.463	0.966	5.210	3.650	26.300
249	12.450	40.846	28.680	28.715	0.715	5.650	2.490	30.900
250	12.500	41.010	50.860	50.894	0.643	5.420	1.263	39.500
251	12.550	41.174	57.330	57.362	1.109	5.090	1.933	37.100
252	12.600	41.338	42.780	42.812	1.133	5.100	2.646	31.700
253	12.650	41.502	33.980	34.012	1.073	5.090	3.155	26.500
254	12.700	41.666	27.510	27.542	1.069	5.110	3.881	32.100
255	12.750	41.830	41.460	41.493	1.315	5.270	3.169	32.200
256	12.800	41.994	46.280	46.314	1.419	5.520	3.064	28.200
257	12.850	42.158	59.680	59.715	1.303	5.620	2.182	39.000
258	12.900	42.322	90.520	90.555	1.698	5.660	1.875	44.700
259	12.950	42.486	76.400	76.435	2.128	5.630	2.784	49.600
260	13.000	42.650	165.210	165.246	2.534	5.700	1.533	0.000
261	13.050	42.814	151.790	151.836	4.246	7.370	2.796	0.000
262	13.100	42.978	92.580	92.616	3.895	5.840	4.206	0.000
263	13.150	43.143	31.120	31.159	2.800	6.190	8.986	0.000
264	13.200	43.307	37.410	37.454	1.659	6.970	4.429	0.000
265	13.250	43.471	42.040	42.083	1.495	6.940	3.552	0.000
266	13.300	43.635	45.150	45.194	1.592	7.090	3.523	0.000
267	13.350	43.799	94.160	94.210	2.310	8.060	2.452	0.000
268	13.400	43.963	108.290	108.337	2.189	7.590	2.021	0.000
269	13.450	44.127	84.320	84.370	0.472	7.960	0.559	0.000
270	13.500	44.291	83.060	83.106	1.811	7.380	2.179	0.000
271	13.550	44.455	39.410	39.454	1.219	7.030	3.090	0.000
272	13.600	44.619	48.930	48.971	0.953	6.610	1.946	0.000
273	13.650	44.783	47.200	47.240	1.759	6.470	3.724	0.000
274	13.700	44.947	222.970	223.012	0.000	6.680	0.000	0.000
275	13.750	45.111	253.800	253.843	0.000	6.870	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221554
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-6-4
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-16-2013
CPT Time:	10:58
CPT File:	13-53075_GP6-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722123.328
Northing / Lat:	4294285.860
Elevation:	147.015
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	15.670	15.668	0.012	-0.260	0.077	30.300
2	0.100	0.328	27.810	27.810	0.045	-0.020	0.162	20.400
3	0.150	0.492	37.190	37.190	0.746	-0.080	2.006	3.500
4	0.200	0.656	63.740	63.741	0.539	0.100	0.846	8.100
5	0.250	0.820	126.910	126.907	0.795	-0.500	0.626	6.900
6	0.300	0.984	156.590	156.592	1.366	0.250	0.872	2.900
7	0.350	1.148	223.260	223.262	3.184	0.260	1.426	5.400
8	0.400	1.312	168.590	168.595	3.762	0.740	2.231	6.800
9	0.450	1.476	70.620	70.624	5.348	0.570	7.573	4.800
10	0.500	1.640	92.450	92.450	4.181	0.000	4.522	7.600
11	0.550	1.804	99.880	99.885	16.463	0.730	16.482	5.800
12	0.600	1.968	119.550	119.555	4.611	0.760	3.857	5.800
13	0.650	2.133	363.400	363.401	6.996	0.190	1.925	5.600
14	0.700	2.297	218.160	218.155	9.287	-0.840	4.257	4.900
15	0.750	2.461	153.810	153.807	5.159	-0.510	3.354	4.200
16	0.800	2.625	121.970	121.967	0.766	-0.520	0.628	4.300
17	0.850	2.789	102.010	102.009	1.467	-0.190	1.438	8.400
18	0.900	2.953	39.250	39.248	1.019	-0.370	2.596	23.000
19	0.950	3.117	46.960	46.959	0.679	-0.110	1.446	73.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	16.450	16.453	0.490	0.440	2.978	67.000
21	1.050	3.445	77.620	77.637	0.415	2.730	0.535	65.100
22	1.100	3.609	115.230	115.147	0.409	-13.310	0.355	70.100
23	1.150	3.773	134.860	134.710	0.455	-24.080	0.338	9.300
24	1.200	3.937	139.230	139.080	0.566	-24.080	0.407	31.100
25	1.250	4.101	154.650	154.500	0.493	-23.980	0.319	5.300
26	1.300	4.265	155.610	155.462	1.326	-23.740	0.853	5.600
27	1.350	4.429	131.250	131.250	2.177	0.040	1.659	7.100
28	1.400	4.593	113.730	113.731	2.595	0.170	2.282	18.200
29	1.450	4.757	84.200	84.202	2.572	0.350	3.055	27.500
30	1.500	4.921	61.810	61.811	2.800	0.200	4.530	5.200
31	1.550	5.085	49.170	49.172	3.068	0.370	6.239	7.700
32	1.600	5.249	50.870	50.872	3.646	0.370	7.167	8.900
33	1.650	5.413	61.750	61.753	4.637	0.540	7.509	16.500
34	1.700	5.577	51.350	51.353	4.754	0.490	9.257	8.400
35	1.750	5.741	49.200	49.203	4.125	0.460	8.384	9.700
36	1.800	5.905	25.700	25.703	0.875	0.470	3.404	4.000
37	1.850	6.069	82.320	82.322	0.142	0.330	0.172	70.900
38	1.900	6.234	140.740	140.742	1.313	0.360	0.933	60.300
39	1.950	6.398	135.590	135.590	2.217	0.020	1.635	7.900
40	2.000	6.562	109.720	109.719	1.999	-0.210	1.822	4.800
41	2.050	6.726	77.400	77.398	0.941	-0.300	1.216	54.200
42	2.100	6.890	64.380	64.379	1.155	-0.140	1.794	68.700
43	2.150	7.054	80.040	80.039	0.863	-0.130	1.078	20.200
44	2.200	7.218	55.310	55.309	0.263	-0.220	0.476	6.700
45	2.250	7.382	69.220	69.219	0.014	-0.090	0.020	5.100
46	2.300	7.546	68.550	68.545	0.062	-0.820	0.090	5.000
47	2.350	7.710	61.080	61.063	0.345	-2.670	0.565	8.700
48	2.400	7.874	67.070	67.053	0.548	-2.750	0.817	4.500
49	2.450	8.038	81.650	81.630	0.944	-3.130	1.156	6.500
50	2.500	8.202	96.250	96.156	0.683	-15.070	0.710	3.600
51	2.550	8.366	99.580	99.486	0.012	-15.090	0.012	7.800
52	2.600	8.530	198.770	198.675	0.504	-15.230	0.254	5.700
53	2.650	8.694	165.740	165.647	1.891	-14.970	1.142	3.900
54	2.700	8.858	89.530	89.410	2.237	-19.180	2.502	5.400
55	2.750	9.022	24.500	24.389	2.248	-17.790	9.217	6.300
56	2.800	9.186	24.420	24.307	1.583	-18.180	6.513	5.500
57	2.850	9.350	13.140	13.031	1.996	-17.460	15.317	2.400
58	2.900	9.514	22.310	22.204	4.316	-17.030	19.438	1.900
59	2.950	9.678	300.700	300.700	4.142	0.080	1.377	3.200
60	3.000	9.842	323.020	323.017	2.591	-0.550	0.802	1.100
61	3.050	10.006	197.600	197.600	1.921	-0.020	0.972	3.200
62	3.100	10.170	134.070	134.066	1.800	-0.700	1.343	4.700
63	3.150	10.335	92.590	92.591	3.790	0.180	4.093	3.100
64	3.200	10.499	58.970	58.973	3.385	0.410	5.740	1.600
65	3.250	10.663	23.750	23.753	2.232	0.560	9.397	2.200
66	3.300	10.827	29.150	29.153	0.894	0.490	3.067	3.100
67	3.350	10.991	22.750	22.754	0.669	0.640	2.940	1.800
68	3.400	11.155	19.220	19.225	0.946	0.850	4.921	1.600
69	3.450	11.319	45.640	45.646	0.315	0.960	0.690	1.700
70	3.500	11.483	44.800	44.811	0.333	1.730	0.743	2.400
71	3.550	11.647	39.640	39.650	0.594	1.630	1.498	2.400
72	3.600	11.811	25.690	25.703	0.910	2.020	3.540	4.200
73	3.650	11.975	38.680	38.693	0.964	2.150	2.491	3.500
74	3.700	12.139	51.430	51.444	1.073	2.290	2.086	2.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	38.730	38.745	1.173	2.410	3.027	2.200
76	3.800	12.467	26.200	26.214	1.144	2.310	4.364	4.500
77	3.850	12.631	22.570	22.585	0.882	2.340	3.905	4.100
78	3.900	12.795	9.800	9.815	0.541	2.330	5.512	6.400
79	3.950	12.959	13.650	13.667	0.572	2.660	4.185	3.400
80	4.000	13.123	18.920	18.937	0.997	2.780	5.265	7.000
81	4.050	13.287	95.200	95.219	1.351	3.020	1.419	3.500
82	4.100	13.451	114.610	114.626	1.191	2.520	1.039	3.000
83	4.150	13.615	67.140	67.154	1.276	2.180	1.900	4.700
84	4.200	13.779	40.460	40.473	1.049	2.050	2.592	4.600
85	4.250	13.943	20.430	20.443	0.738	2.070	3.610	4.100
86	4.300	14.107	23.020	23.035	0.667	2.340	2.896	6.400
87	4.350	14.271	29.420	29.436	0.617	2.560	2.096	8.200
88	4.400	14.436	29.450	29.465	0.684	2.440	2.321	7.200
89	4.450	14.600	42.430	42.446	0.614	2.490	1.447	8.200
90	4.500	14.764	50.890	50.905	0.499	2.450	0.980	3.000
91	4.550	14.928	35.700	35.715	0.438	2.440	1.226	9.300
92	4.600	15.092	31.450	31.465	0.296	2.340	0.941	2.400
93	4.650	15.256	6.270	6.284	0.274	2.260	4.360	3.000
94	4.700	15.420	23.830	23.845	0.375	2.420	1.573	1.900
95	4.750	15.584	34.390	34.405	0.643	2.390	1.869	1.700
96	4.800	15.748	23.340	23.355	0.832	2.410	3.562	2.900
97	4.850	15.912	23.440	23.456	0.880	2.550	3.752	3.500
98	4.900	16.076	20.720	20.735	0.750	2.480	3.617	4.100
99	4.950	16.240	10.420	10.437	0.698	2.750	6.688	3.600
100	5.000	16.404	53.660	53.678	1.153	2.960	2.148	5.400
101	5.050	16.568	50.560	50.579	1.387	2.990	2.742	1.800
102	5.100	16.732	71.110	71.128	0.927	2.900	1.303	1.200
103	5.150	16.896	85.470	85.488	0.882	2.830	1.032	4.200
104	5.200	17.060	36.900	36.918	0.981	2.920	2.657	4.700
105	5.250	17.224	44.070	44.089	1.040	3.030	2.359	2.400
106	5.300	17.388	24.020	24.040	1.141	3.270	4.746	2.400
107	5.350	17.552	69.960	69.980	0.902	3.140	1.289	47.100
108	5.400	17.716	18.740	18.760	0.752	3.190	4.009	4.900
109	5.450	17.880	13.500	13.521	0.528	3.320	3.905	2.800
110	5.500	18.044	23.050	23.074	0.500	3.830	2.167	3.500
111	5.550	18.208	24.900	24.924	0.498	3.840	1.998	4.200
112	5.600	18.372	22.440	22.463	0.781	3.720	3.477	3.600
113	5.650	18.537	22.180	22.202	0.772	3.580	3.477	2.400
114	5.700	18.701	29.510	29.534	0.836	3.910	2.831	2.400
115	5.750	18.865	39.790	39.814	1.151	3.870	2.891	4.100
116	5.800	19.029	56.910	56.935	1.382	4.070	2.427	1.800
117	5.850	19.193	46.500	46.525	1.256	4.010	2.700	4.100
118	5.900	19.357	26.090	26.115	1.065	4.070	4.078	5.800
119	5.950	19.521	16.770	16.795	0.572	3.960	3.406	7.700
120	6.000	19.685	14.930	14.954	0.517	3.880	3.457	1.800
121	6.050	19.849	17.820	17.844	0.427	3.810	2.393	3.600
122	6.100	20.013	13.960	13.984	0.528	3.850	3.776	4.100
123	6.150	20.177	17.600	17.622	0.619	3.500	3.513	1.400
124	6.200	20.341	35.330	35.353	0.577	3.640	1.632	3.400
125	6.250	20.505	61.710	61.732	0.788	3.540	1.276	1.800
126	6.300	20.669	89.910	89.931	0.772	3.350	0.858	3.200
127	6.350	20.833	85.810	85.831	0.620	3.350	0.722	1.300
128	6.400	20.997	37.600	37.624	0.650	3.840	1.728	0.700
129	6.450	21.161	20.500	20.524	0.430	3.850	2.095	2.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	20.970	20.994	0.336	3.860	1.600	3.600
131	6.550	21.489	22.360	22.384	0.425	3.780	1.899	4.800
132	6.600	21.653	22.120	22.144	0.617	3.850	2.786	6.000
133	6.650	21.817	27.710	27.738	0.438	4.490	1.579	7.800
134	6.700	21.981	64.380	64.408	0.406	4.520	0.630	12.200
135	6.750	22.145	52.060	52.088	0.473	4.460	0.908	58.400
136	6.800	22.309	34.990	35.016	0.676	4.200	1.931	50.700
137	6.850	22.473	26.270	26.297	0.677	4.340	2.574	40.600
138	6.900	22.638	26.340	26.372	0.759	5.200	2.878	47.600
139	6.950	22.802	44.630	44.661	0.747	5.000	1.673	42.200
140	7.000	22.966	55.630	55.653	0.690	3.710	1.240	32.200
141	7.050	23.130	80.920	80.938	1.328	2.830	1.641	0.000
142	7.100	23.294	63.830	63.851	1.335	3.380	2.091	0.000
143	7.150	23.458	46.720	46.740	1.589	3.150	3.400	0.000
144	7.200	23.622	61.500	61.519	1.021	2.970	1.660	0.000
145	7.250	23.786	92.380	92.400	0.579	3.200	0.627	0.000
146	7.300	23.950	146.990	147.010	0.502	3.140	0.341	0.000
147	7.350	24.114	211.510	211.530	1.109	3.180	0.524	0.000
148	7.400	24.278	259.910	259.928	3.029	2.900	1.165	0.000
149	7.450	24.442	245.840	245.856	0.716	2.520	0.291	0.000
150	7.500	24.606	210.920	210.929	1.390	1.410	0.659	0.000
151	7.550	24.770	103.020	103.032	1.529	1.920	1.484	0.000
152	7.600	24.934	40.840	40.852	2.095	1.960	5.128	0.000
153	7.650	25.098	49.880	49.897	1.706	2.680	3.419	0.000
154	7.700	25.262	38.080	38.096	2.125	2.620	5.578	0.000
155	7.750	25.426	23.400	23.414	0.000	2.260	0.000	0.000
156	7.800	25.590	243.840	243.855	0.000	2.450	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221556
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-6-5
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-16-2013
CPT Time:	14:48
CPT File:	13-53075_GP6-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722126.315
Northing / Lat:	4294283.863
Elevation:	146.990
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.170	1.169	0.004	-0.180	0.342	25.100
2	0.100	0.328	2.210	2.207	0.025	-0.510	1.133	36.100
3	0.150	0.492	28.110	28.112	0.068	0.270	0.242	49.800
4	0.200	0.656	91.970	91.972	0.169	0.300	0.184	43.100
5	0.250	0.820	117.050	117.053	0.283	0.430	0.242	48.500
6	0.300	0.984	148.450	148.454	0.657	0.670	0.443	49.700
7	0.350	1.148	145.280	145.286	0.514	0.890	0.354	52.800
8	0.400	1.312	126.120	126.123	0.729	0.510	0.578	59.300
9	0.450	1.476	103.940	103.942	0.733	0.380	0.705	56.500
10	0.500	1.640	56.980	56.985	0.610	0.730	1.070	59.000
11	0.550	1.804	28.630	28.633	0.499	0.440	1.743	35.600
12	0.600	1.968	18.000	18.005	0.477	0.830	2.649	50.900
13	0.650	2.133	15.530	15.534	0.582	0.670	3.747	89.000
14	0.700	2.297	21.020	21.029	0.500	1.420	2.378	92.000
15	0.750	2.461	20.430	20.442	0.702	1.890	3.434	90.100
16	0.800	2.625	23.090	23.057	0.739	-5.230	3.205	97.200
17	0.850	2.789	16.730	16.684	0.827	-7.350	4.957	92.900
18	0.900	2.953	20.500	20.444	0.826	-9.000	4.040	100.700
19	0.950	3.117	14.800	14.734	0.861	-10.520	5.843	96.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	13.130	13.058	0.805	-11.470	6.165	101.800
21	1.050	3.445	12.430	12.355	0.657	-12.000	5.318	94.700
22	1.100	3.609	12.150	12.132	0.551	-2.830	4.542	88.800
23	1.150	3.773	13.320	13.310	0.630	-1.560	4.733	88.200
24	1.200	3.937	20.370	20.359	0.617	-1.700	3.031	80.100
25	1.250	4.101	50.890	50.869	0.631	-3.440	1.240	70.700
26	1.300	4.265	122.420	122.417	3.781	-0.520	3.089	59.300
27	1.350	4.429	184.850	184.847	2.669	-0.420	1.444	57.600
28	1.400	4.593	263.920	263.926	2.696	0.910	1.021	53.100
29	1.450	4.757	144.880	144.883	3.321	0.470	2.292	38.100
30	1.500	4.921	162.090	162.092	2.471	0.330	1.524	38.300
31	1.550	5.085	136.190	136.191	1.824	0.170	1.339	4.000
32	1.600	5.249	97.230	97.232	2.255	0.270	2.319	2.800
33	1.650	5.413	100.800	100.803	1.879	0.540	1.864	7.900
34	1.700	5.577	116.080	116.081	1.781	0.200	1.534	6.000
35	1.750	5.741	46.400	46.403	1.957	0.530	4.217	20.700
36	1.800	5.905	44.370	44.378	1.692	1.360	3.813	69.100
37	1.850	6.069	71.560	71.585	1.355	3.990	1.893	83.100
38	1.900	6.234	103.850	103.820	1.226	-4.820	1.181	92.900
39	1.950	6.398	101.040	100.982	1.520	-9.310	1.505	96.100
40	2.000	6.562	85.590	85.517	1.507	-11.740	1.762	98.300
41	2.050	6.726	81.910	81.829	1.298	-12.940	1.586	95.900
42	2.100	6.890	62.360	62.272	1.194	-14.060	1.917	83.300
43	2.150	7.054	45.750	45.659	0.915	-14.620	2.004	92.900
44	2.200	7.218	31.230	31.137	0.854	-14.880	2.743	82.300
45	2.250	7.382	23.900	23.807	0.568	-14.840	2.386	87.400
46	2.300	7.546	20.500	20.408	0.621	-14.750	3.043	88.700
47	2.350	7.710	24.400	24.309	0.646	-14.500	2.657	86.400
48	2.400	7.874	45.050	44.961	0.688	-14.330	1.530	91.600
49	2.450	8.038	51.550	51.460	0.932	-14.420	1.811	95.100
50	2.500	8.202	47.900	47.810	1.046	-14.470	2.188	90.400
51	2.550	8.366	41.070	40.980	1.100	-14.370	2.684	101.200
52	2.600	8.530	32.040	31.950	1.111	-14.440	3.477	100.400
53	2.650	8.694	29.070	28.982	1.144	-14.170	3.947	99.900
54	2.700	8.858	40.200	40.112	1.009	-14.130	2.515	93.000
55	2.750	9.022	66.200	66.113	1.199	-13.920	1.814	92.200
56	2.800	9.186	64.150	64.062	1.467	-14.080	2.290	78.700
57	2.850	9.350	46.510	46.420	1.811	-14.350	3.901	60.000
58	2.900	9.514	36.030	35.939	2.535	-14.630	7.054	48.400
59	2.950	9.678	144.620	144.530	3.303	-14.430	2.285	41.500
60	3.000	9.842	232.810	232.811	3.804	0.190	1.634	35.700
61	3.050	10.006	197.340	197.344	2.749	0.650	1.393	29.400
62	3.100	10.170	134.280	134.284	2.101	0.620	1.565	34.700
63	3.150	10.335	103.530	103.540	1.623	1.560	1.568	29.000
64	3.200	10.499	105.060	105.067	1.361	1.110	1.295	28.800
65	3.250	10.663	84.120	84.125	1.062	0.790	1.262	18.500
66	3.300	10.827	44.890	44.905	1.056	2.460	2.352	20.000
67	3.350	10.991	50.370	50.387	0.978	2.710	1.941	18.600
68	3.400	11.155	60.490	60.508	0.782	2.880	1.292	12.800
69	3.450	11.319	71.880	71.894	0.589	2.220	0.819	14.400
70	3.500	11.483	74.810	74.824	0.514	2.170	0.687	13.100
71	3.550	11.647	51.580	51.595	0.458	2.340	0.888	14.500
72	3.600	11.811	45.440	45.456	0.013	2.610	0.029	16.500
73	3.650	11.975	62.260	62.272	0.295	2.000	0.474	21.200
74	3.700	12.139	53.940	53.958	0.662	2.810	1.227	26.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	64.420	64.433	0.969	2.130	1.504	16.700
76	3.800	12.467	84.280	84.301	1.100	3.320	1.305	24.300
77	3.850	12.631	54.600	54.624	1.023	3.900	1.873	28.800
78	3.900	12.795	36.900	36.922	1.507	3.540	4.082	30.900
79	3.950	12.959	79.340	79.357	0.934	2.800	1.177	42.600
80	4.000	13.123	39.050	39.066	0.999	2.500	2.557	47.700
81	4.050	13.287	30.450	30.469	0.680	3.020	2.232	61.800
82	4.100	13.451	16.860	16.884	0.402	3.830	2.381	67.300
83	4.150	13.615	21.520	21.547	0.423	4.280	1.963	71.800
84	4.200	13.779	25.930	25.940	0.701	1.670	2.702	58.900
85	4.250	13.943	19.130	19.111	0.745	-3.070	3.898	63.700
86	4.300	14.107	26.000	25.964	0.804	-5.730	3.097	50.300
87	4.350	14.271	21.000	20.941	0.853	-9.430	4.073	53.400
88	4.400	14.436	21.370	21.308	0.504	-9.900	2.365	32.700
89	4.450	14.600	14.600	14.540	0.351	-9.570	2.414	38.500
90	4.500	14.764	20.890	20.897	0.354	1.080	1.694	43.600
91	4.550	14.928	14.250	14.267	0.441	2.770	3.091	39.000
92	4.600	15.092	12.920	12.937	0.595	2.800	4.599	49.900
93	4.650	15.256	10.410	10.434	1.211	3.800	11.607	60.100
94	4.700	15.420	34.530	34.550	0.894	3.260	2.588	54.900
95	4.750	15.584	66.000	66.004	0.245	0.620	0.371	81.100
96	4.800	15.748	32.390	32.445	0.370	8.830	1.140	84.700
97	4.850	15.912	35.370	35.389	0.363	3.020	1.026	88.500
98	4.900	16.076	18.720	18.740	0.374	3.160	1.996	89.200
99	4.950	16.240	11.910	11.932	0.299	3.460	2.506	83.900
100	5.000	16.404	8.930	8.951	0.352	3.340	3.933	83.000
101	5.050	16.568	8.700	8.719	0.368	2.970	4.221	80.600
102	5.100	16.732	7.010	7.052	0.430	6.690	6.098	64.700
103	5.150	16.896	14.760	14.802	0.522	6.720	3.527	42.500
104	5.200	17.060	37.570	37.606	0.707	5.800	1.880	50.100
105	5.250	17.224	35.190	35.220	0.938	4.880	2.663	37.800
106	5.300	17.388	47.560	47.584	1.126	3.820	2.366	51.800
107	5.350	17.552	56.000	56.021	0.904	3.290	1.614	52.900
108	5.400	17.716	49.570	49.590	0.521	3.270	1.051	56.100
109	5.450	17.880	69.030	69.045	0.446	2.400	0.646	43.900
110	5.500	18.044	63.340	63.352	0.519	1.900	0.819	39.400
111	5.550	18.208	38.030	38.041	0.645	1.780	1.696	32.800
112	5.600	18.372	31.370	31.384	0.961	2.270	3.062	22.900
113	5.650	18.537	32.450	32.465	1.344	2.450	4.140	17.600
114	5.700	18.701	39.840	39.854	1.214	2.200	3.046	14.700
115	5.750	18.865	19.360	19.382	0.803	3.490	4.143	19.200
116	5.800	19.029	29.130	29.150	0.453	3.190	1.554	20.500
117	5.850	19.193	3.900	3.918	0.197	2.900	5.028	15.800
118	5.900	19.357	5.840	5.858	0.146	2.940	2.492	17.000
119	5.950	19.521	6.610	6.628	0.178	2.950	2.685	13.500
120	6.000	19.685	8.320	8.338	0.193	2.920	2.315	17.500
121	6.050	19.849	10.510	10.533	0.201	3.720	1.908	27.500
122	6.100	20.013	23.000	23.017	0.537	2.770	2.333	20.000
123	6.150	20.177	49.300	49.321	0.363	3.390	0.736	22.200
124	6.200	20.341	56.250	56.276	0.499	4.160	0.887	18.900
125	6.250	20.505	17.250	17.270	0.593	3.260	3.434	19.900
126	6.300	20.669	14.930	14.951	0.560	3.290	3.746	13.800
127	6.350	20.833	15.510	15.529	0.659	3.010	4.244	20.400
128	6.400	20.997	21.260	21.272	0.534	1.880	2.510	19.100
129	6.450	21.161	11.310	11.335	0.424	4.020	3.741	19.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	12.530	12.553	0.288	3.740	2.294	19.500
131	6.550	21.489	31.270	31.291	0.291	3.370	0.930	22.500
132	6.600	21.653	53.730	53.749	0.428	2.980	0.796	15.400
133	6.650	21.817	37.150	37.167	0.662	2.660	1.781	21.400
134	6.700	21.981	33.400	33.415	0.811	2.450	2.427	23.900
135	6.750	22.145	29.630	29.639	0.974	1.490	3.286	38.200
136	6.800	22.309	29.530	29.542	0.905	1.930	3.063	52.400
137	6.850	22.473	36.780	36.795	0.960	2.460	2.609	61.000
138	6.900	22.638	53.210	53.217	0.941	1.160	1.768	56.800
139	6.950	22.802	61.300	61.290	1.187	-1.580	1.937	53.600
140	7.000	22.966	63.960	63.966	1.131	0.950	1.768	44.700
141	7.050	23.130	39.480	39.490	1.243	1.530	3.148	45.100
142	7.100	23.294	34.870	34.879	1.178	1.370	3.377	53.400
143	7.150	23.458	30.060	30.070	1.045	1.640	3.475	55.800
144	7.200	23.622	20.360	20.373	0.816	2.020	4.005	56.700
145	7.250	23.786	14.270	14.275	0.623	0.860	4.364	54.200
146	7.300	23.950	23.770	23.763	0.472	-1.100	1.986	53.300
147	7.350	24.114	44.850	44.849	0.654	-0.240	1.458	58.700
148	7.400	24.278	49.100	49.102	0.552	0.330	1.124	23.600
149	7.450	24.442	39.800	39.792	0.572	-1.280	1.437	6.100
150	7.500	24.606	31.440	31.420	0.789	-3.140	2.511	4.900
151	7.550	24.770	26.110	26.086	0.700	-3.770	2.683	3.700
152	7.600	24.934	25.950	25.926	0.625	-3.810	2.411	2.700
153	7.650	25.098	43.970	43.979	0.716	1.370	1.628	1.900
154	7.700	25.262	26.770	26.776	0.803	0.990	2.999	2.700
155	7.750	25.426	26.530	26.534	0.729	0.720	2.747	2.800
156	7.800	25.590	13.860	13.863	0.569	0.550	4.104	0.400
157	7.850	25.754	19.320	19.322	0.626	0.390	3.240	1.500
158	7.900	25.918	45.160	45.161	0.529	0.110	1.171	1.700
159	7.950	26.082	24.450	24.456	0.575	1.040	2.351	1.100
160	8.000	26.246	11.350	11.368	0.776	2.940	6.826	2.300
161	8.050	26.410	34.060	34.078	0.829	2.820	2.433	1.700
162	8.100	26.574	52.150	52.171	1.173	3.350	2.248	2.300
163	8.150	26.739	49.960	49.983	1.266	3.740	2.533	0.600
164	8.200	26.903	30.770	30.793	1.336	3.700	4.339	0.600
165	8.250	27.067	32.930	32.952	1.093	3.540	3.317	0.900
166	8.300	27.231	22.150	22.170	0.968	3.210	4.366	2.100
167	8.350	27.395	20.260	20.281	0.852	3.360	4.201	1.600
168	8.400	27.559	30.060	30.085	0.639	3.940	2.124	2.600
169	8.450	27.723	22.000	22.022	0.571	3.600	2.593	14.800
170	8.500	27.887	9.270	9.291	0.560	3.440	6.027	57.400
171	8.550	28.051	9.880	9.904	0.310	3.860	3.130	58.900
172	8.600	28.215	7.650	7.677	0.171	4.300	2.227	68.400
173	8.650	28.379	8.600	8.630	0.184	4.740	2.132	61.500
174	8.700	28.543	11.270	11.300	0.275	4.880	2.434	58.000
175	8.750	28.707	12.730	12.761	0.305	4.950	2.390	68.200
176	8.800	28.871	12.500	12.528	0.352	4.560	2.810	58.200
177	8.850	29.035	10.870	10.900	0.276	4.860	2.532	66.700
178	8.900	29.199	14.180	14.210	0.238	4.820	1.675	58.800
179	8.950	29.363	13.260	13.287	0.229	4.310	1.724	50.600
180	9.000	29.527	16.030	16.056	0.276	4.150	1.719	56.800
181	9.050	29.691	31.840	31.865	0.508	4.030	1.594	48.600
182	9.100	29.855	38.570	38.599	0.989	4.630	2.562	55.200
183	9.150	30.019	62.880	62.909	0.689	4.620	1.095	51.300
184	9.200	30.183	113.860	113.890	0.944	4.760	0.829	53.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	131.760	131.786	1.575	4.160	1.195	56.000
186	9.300	30.511	122.090	122.118	2.289	4.480	1.874	52.400
187	9.350	30.675	90.970	90.996	2.457	4.200	2.700	50.300
188	9.400	30.840	106.970	106.966	2.640	-0.590	2.468	41.900
189	9.450	31.004	117.280	117.274	1.935	-1.040	1.650	38.000
190	9.500	31.168	102.670	102.672	1.289	0.330	1.255	38.500
191	9.550	31.332	68.850	68.858	0.685	1.350	0.995	35.800
192	9.600	31.496	49.730	49.741	0.666	1.830	1.339	22.000
193	9.650	31.660	41.070	41.089	0.599	3.110	1.458	22.400
194	9.700	31.824	36.440	36.459	0.661	3.070	1.813	27.700
195	9.750	31.988	32.690	32.712	0.584	3.550	1.785	30.900
196	9.800	32.152	36.470	36.490	0.781	3.190	2.140	36.600
197	9.850	32.316	86.210	86.231	1.157	3.300	1.342	42.500
198	9.900	32.480	108.320	108.330	1.580	1.640	1.459	3.800
199	9.950	32.644	94.220	94.229	1.912	1.390	2.029	3.200
200	10.000	32.808	69.410	69.408	1.700	-0.370	2.449	4.900
201	10.050	32.972	40.290	40.294	1.265	0.600	3.139	5.500
202	10.100	33.136	24.050	24.055	0.836	0.780	3.475	3.600
203	10.150	33.300	38.630	38.630	0.786	0.010	2.035	2.300
204	10.200	33.464	36.290	36.315	0.660	3.990	1.817	1.700
205	10.250	33.628	26.670	26.695	0.771	3.990	2.888	1.000
206	10.300	33.792	38.100	38.125	0.734	4.030	1.925	2.300
207	10.350	33.956	23.180	23.209	0.730	4.650	3.145	1.400
208	10.400	34.120	15.030	15.059	0.722	4.620	4.795	1.600
209	10.450	34.284	14.130	14.158	0.590	4.550	4.167	2.900
210	10.500	34.448	21.340	21.369	0.569	4.640	2.663	2.600
211	10.550	34.612	36.920	36.947	0.490	4.360	1.326	2.900
212	10.600	34.776	11.380	11.416	0.565	5.760	4.949	2.300
213	10.650	34.941	20.290	20.322	0.390	5.150	1.919	3.800
214	10.700	35.105	40.010	40.044	1.465	5.390	3.659	3.600
215	10.750	35.269	84.080	84.077	1.607	-0.480	1.911	5.300
216	10.800	35.433	20.290	20.319	1.566	4.590	7.707	7.700
217	10.850	35.597	17.730	17.759	0.623	4.630	3.508	4.700
218	10.900	35.761	29.960	29.965	0.604	0.870	2.016	3.100
219	10.950	35.925	30.390	30.412	0.705	3.580	2.318	2.600
220	11.000	36.089	16.280	16.306	0.710	4.150	4.354	2.600
221	11.050	36.253	20.230	20.254	0.662	3.830	3.269	1.700
222	11.100	36.417	15.380	15.400	0.473	3.190	3.071	3.800
223	11.150	36.581	27.250	27.270	0.654	3.280	2.398	3.700
224	11.200	36.745	32.380	32.401	0.964	3.340	2.975	5.700
225	11.250	36.909	31.530	31.557	1.024	4.340	3.245	5.600
226	11.300	37.073	54.410	54.436	1.098	4.130	2.017	3.500
227	11.350	37.237	49.050	49.071	1.195	3.350	2.435	2.900
228	11.400	37.401	36.880	36.904	1.566	3.920	4.243	2.200
229	11.450	37.565	45.920	45.950	1.704	4.740	3.708	2.600
230	11.500	37.729	81.350	81.386	2.277	5.780	2.798	2.200
231	11.550	37.893	65.930	65.971	2.425	6.550	3.676	11.900
232	11.600	38.057	52.090	52.132	2.140	6.800	4.105	14.700
233	11.650	38.221	120.500	120.538	2.203	6.030	1.828	15.200
234	11.700	38.385	49.580	49.613	1.840	5.330	3.709	12.100
235	11.750	38.549	12.420	12.447	1.834	4.310	14.735	3.700
236	11.800	38.713	53.700	53.724	1.516	3.840	2.822	2.000
237	11.850	38.877	47.880	47.912	1.741	5.060	3.634	3.400
238	11.900	39.042	26.620	26.657	1.564	5.850	5.867	2.900
239	11.950	39.206	42.910	42.941	1.540	5.000	3.586	1.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	50.160	50.185	1.404	4.080	2.798	1.500
241	12.050	39.534	135.000	135.024	1.882	3.890	1.394	0.600
242	12.100	39.698	88.780	88.802	2.062	3.510	2.322	1.800
243	12.150	39.862	79.100	79.124	2.644	3.870	3.342	0.600
244	12.200	40.026	89.410	89.433	2.850	3.660	3.187	1.300
245	12.250	40.190	57.950	57.970	2.584	3.170	4.457	1.300
246	12.300	40.354	53.750	53.732	2.033	-2.820	3.784	0.700
247	12.350	40.518	46.250	46.216	1.573	-5.440	3.404	1.600
248	12.400	40.682	36.600	36.568	1.187	-5.180	3.246	1.000
249	12.450	40.846	22.300	22.270	0.817	-4.840	3.669	1.600
250	12.500	41.010	23.930	23.939	0.684	1.500	2.857	3.000
251	12.550	41.174	36.000	36.017	0.697	2.790	1.935	2.700
252	12.600	41.338	46.560	46.581	0.896	3.440	1.924	4.000
253	12.650	41.502	43.060	43.075	1.055	2.360	2.449	2.700
254	12.700	41.666	47.150	47.175	1.391	3.970	2.949	2.900
255	12.750	41.830	59.670	59.697	1.520	4.340	2.546	1.800
256	12.800	41.994	72.460	72.488	2.186	4.420	3.016	1.800
257	12.850	42.158	76.290	76.319	2.201	4.640	2.884	12.800
258	12.900	42.322	58.600	58.616	2.118	2.500	3.613	34.000
259	12.950	42.486	54.150	54.161	1.567	1.740	2.893	33.000
260	13.000	42.650	44.470	44.475	1.176	0.760	2.644	31.600
261	13.050	42.814	32.120	32.148	0.846	4.480	2.632	35.700
262	13.100	42.978	70.450	70.449	0.884	-0.120	1.255	24.500
263	13.150	43.143	107.820	107.794	1.121	-4.210	1.040	20.200
264	13.200	43.307	97.130	97.106	1.280	-3.790	1.318	19.400
265	13.250	43.471	101.390	101.368	2.445	-3.470	2.412	15.500
266	13.300	43.635	194.410	194.390	3.973	-3.170	2.044	16.100
267	13.350	43.799	109.100	109.083	4.173	-2.780	3.826	7.800
268	13.400	43.963	138.580	138.577	5.149	-0.550	3.716	12.300
269	13.450	44.127	112.020	112.024	4.130	0.620	3.687	19.100
270	13.500	44.291	55.770	55.777	3.474	1.050	6.228	19.600
271	13.550	44.455	34.770	34.779	1.812	1.380	5.210	26.600
272	13.600	44.619	49.160	49.173	1.872	2.110	3.807	9.100
273	13.650	44.783	77.190	77.206	2.331	2.500	3.019	2.900
274	13.700	44.947	75.550	75.565	2.684	2.380	3.552	1.200
275	13.750	45.111	55.890	55.906	2.198	2.550	3.932	3.700
276	13.800	45.275	53.110	53.127	1.920	2.690	3.614	3.900
277	13.850	45.439	43.200	43.218	1.649	2.920	3.816	29.400
278	13.900	45.603	36.210	36.229	1.451	3.000	4.005	42.000
279	13.950	45.767	39.050	39.068	1.258	2.910	3.220	46.700
280	14.000	45.931	27.980	27.989	1.153	1.370	4.120	43.600
281	14.050	46.095	25.950	25.954	1.002	0.600	3.861	43.300
282	14.100	46.259	29.290	29.292	0.850	0.380	2.902	32.100
283	14.150	46.423	32.230	32.239	0.930	1.370	2.885	30.600
284	14.200	46.587	29.090	29.118	0.883	4.480	3.032	24.200
285	14.250	46.751	68.580	68.608	1.203	4.410	1.753	24.600
286	14.300	46.915	99.590	99.616	1.208	4.220	1.213	28.900
287	14.350	47.079	36.870	36.896	1.405	4.190	3.808	32.200
288	14.400	47.244	22.340	22.365	1.122	4.050	5.017	36.100
289	14.450	47.408	47.950	47.974	0.589	3.770	1.228	42.700
290	14.500	47.572	44.000	44.031	0.600	4.910	1.363	48.700
291	14.550	47.736	19.990	20.024	0.616	5.430	3.076	59.100
292	14.600	47.900	29.250	29.272	0.725	3.450	2.477	71.500
293	14.650	48.064	35.030	35.050	1.250	3.260	3.566	64.500
294	14.700	48.228	61.940	61.884	1.686	-9.040	2.724	59.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	57.680	57.608	1.829	-11.580	3.175	50.800
296	14.800	48.556	48.600	48.513	1.755	-13.970	3.618	63.700
297	14.850	48.720	46.330	46.262	1.109	-10.920	2.397	54.100
298	14.900	48.884	28.560	28.489	0.773	-11.430	2.713	48.200
299	14.950	49.048	23.980	23.933	0.639	-7.550	2.670	46.000
300	15.000	49.212	18.390	18.408	0.503	2.890	2.733	50.100
301	15.050	49.376	10.900	10.918	0.532	2.830	4.873	32.300
302	15.100	49.540	13.370	13.378	0.449	1.280	3.356	32.000
303	15.150	49.704	10.990	10.998	0.430	1.260	3.910	24.500
304	15.200	49.868	13.940	13.946	0.513	0.990	3.678	25.000
305	15.250	50.032	28.610	28.624	0.702	2.190	2.453	20.400
306	15.300	50.196	22.410	22.425	0.770	2.330	3.434	17.600
307	15.350	50.360	23.790	23.807	1.112	2.710	4.671	17.300
308	15.400	50.524	35.600	35.616	1.182	2.630	3.319	12.800
309	15.450	50.688	31.360	31.374	1.280	2.170	4.080	15.700
310	15.500	50.852	25.100	25.114	1.061	2.210	4.225	15.300
311	15.550	51.016	19.660	19.673	0.929	2.120	4.722	20.000
312	15.600	51.180	26.210	26.224	1.014	2.190	3.867	19.000
313	15.650	51.345	39.050	39.064	0.971	2.310	2.486	20.000
314	15.700	51.509	38.320	38.334	1.124	2.230	2.932	24.400
315	15.750	51.673	47.530	47.544	0.908	2.270	1.910	33.500
316	15.800	51.837	33.280	33.294	0.770	2.210	2.313	32.900
317	15.850	52.001	32.270	32.282	0.402	1.890	1.245	35.200
318	15.900	52.165	48.510	48.522	0.263	1.980	0.542	39.600
319	15.950	52.329	50.300	50.313	0.246	2.030	0.489	40.500
320	16.000	52.493	75.100	75.112	0.219	1.980	0.292	46.800
321	16.050	52.657	65.140	65.153	0.409	2.040	0.628	55.300
322	16.100	52.821	59.980	59.993	0.573	2.030	0.955	69.300
323	16.150	52.985	46.760	46.772	0.488	1.960	1.043	62.700
324	16.200	53.149	51.470	51.483	0.683	2.120	1.327	53.800
325	16.250	53.313	70.030	70.043	0.930	2.120	1.328	57.700
326	16.300	53.477	106.740	106.749	1.408	1.490	1.319	61.500
327	16.350	53.641	47.990	48.000	1.453	1.590	3.027	56.200
328	16.400	53.805	35.920	35.929	1.321	1.520	3.677	56.800
329	16.450	53.969	40.560	40.570	0.786	1.650	1.937	46.900
330	16.500	54.133	49.020	49.030	1.481	1.570	3.021	31.800
331	16.550	54.297	53.830	53.840	1.783	1.570	3.312	26.900
332	16.600	54.461	67.940	67.950	1.851	1.560	2.724	21.200
333	16.650	54.625	89.960	89.972	1.631	1.930	1.813	24.600
334	16.700	54.789	120.890	120.903	3.121	2.130	2.581	22.500
335	16.750	54.953	91.100	91.115	2.592	2.360	2.845	27.300
336	16.800	55.117	39.610	39.625	1.887	2.340	4.762	30.500
337	16.850	55.281	25.200	25.221	1.040	3.440	4.123	26.900
338	16.900	55.446	29.200	29.221	0.859	3.300	2.940	25.700
339	16.950	55.610	31.010	31.031	1.287	3.410	4.147	25.600
340	17.000	55.774	31.460	31.482	1.637	3.540	5.200	24.300
341	17.050	55.938	32.720	32.742	0.970	3.540	2.963	23.500
342	17.100	56.102	51.160	51.183	0.583	3.670	1.139	23.300
343	17.150	56.266	135.940	135.962	1.008	3.520	0.741	23.400
344	17.200	56.430	112.900	112.921	1.203	3.420	1.065	19.100
345	17.250	56.594	35.950	35.972	1.162	3.470	3.230	26.300
346	17.300	56.758	57.220	57.241	0.499	3.330	0.872	26.800
347	17.350	56.922	44.980	45.000	0.149	3.210	0.331	35.100
348	17.400	57.086	27.160	27.180	0.328	3.180	1.207	34.800
349	17.450	57.250	27.940	27.961	0.312	3.370	1.116	34.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
350	17.500	57.414	11.560	11.581	0.295	3.350	2.547	34.000
351	17.550	57.578	8.040	8.061	0.359	3.430	4.453	0.000
352	17.600	57.742	7.150	7.172	0.660	3.590	9.202	0.000
353	17.650	57.906	8.330	8.353	0.348	3.630	4.166	0.000
354	17.700	58.070	9.740	9.762	0.296	3.540	3.032	0.000
355	17.750	58.234	36.690	36.712	0.225	3.470	0.613	0.000
356	17.800	58.398	89.390	89.413	0.480	3.620	0.537	0.000
357	17.850	58.562	130.470	130.493	0.785	3.760	0.602	0.000
358	17.900	58.726	141.070	141.094	1.050	3.870	0.744	0.000
359	17.950	58.890	153.520	153.544	1.258	3.840	0.819	0.000
360	18.000	59.054	165.480	165.505	1.443	3.950	0.872	0.000
361	18.050	59.218	173.910	173.935	1.564	4.080	0.899	0.000
362	18.100	59.382	171.740	171.766	1.846	4.210	1.075	0.000
363	18.150	59.547	161.770	161.796	1.957	4.160	1.210	0.000
364	18.200	59.711	142.080	142.108	1.819	4.450	1.280	0.000
365	18.250	59.875	159.550	159.577	0.000	4.380	0.000	0.000
366	18.300	60.039	199.230	199.258	0.000	4.530	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221557
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-6-6
Cone ID:	410:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-06-2014
CPT Time:	14:37
CPT File:	13-53075_GP6-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722118.393
Northing / Lat:	4294296.720
Elevation:	144.741
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.210	1.216	0.010	1.030	0.822	26.900
2	0.100	0.328	1.110	1.116	0.004	0.950	0.358	31.900
3	0.150	0.492	1.040	1.046	0.003	1.000	0.287	28.000
4	0.200	0.656	3.170	3.300	0.007	20.780	0.212	35.600
5	0.250	0.820	7.650	7.701	0.007	8.130	0.091	55.400
6	0.300	0.984	13.300	13.323	0.007	3.620	0.053	46.800
7	0.350	1.148	14.880	14.890	0.005	1.570	0.034	54.000
8	0.400	1.312	11.040	11.047	0.010	1.140	0.091	67.300
9	0.450	1.476	7.840	7.830	0.006	-1.550	0.077	62.600
10	0.500	1.640	6.070	6.108	0.005	6.110	0.082	66.000
11	0.550	1.804	7.030	7.145	0.010	18.410	0.140	84.400
12	0.600	1.968	6.430	6.526	0.011	15.300	0.169	68.400
13	0.650	2.133	9.030	9.091	0.007	9.710	0.077	71.900
14	0.700	2.297	10.620	10.682	0.010	9.960	0.094	60.800
15	0.750	2.461	12.390	12.563	0.007	27.750	0.056	74.300
16	0.800	2.625	14.750	14.872	0.006	19.620	0.040	64.400
17	0.850	2.789	13.610	13.670	0.005	9.610	0.037	60.600
18	0.900	2.953	12.520	12.560	0.000	6.420	0.000	55.000
19	0.950	3.117	14.390	14.414	0.124	3.790	0.860	50.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	11.000	11.085	0.102	13.540	0.920	70.400
21	1.050	3.445	6.120	6.173	0.125	8.530	2.025	56.900
22	1.100	3.609	3.710	3.758	0.155	7.630	4.125	70.600
23	1.150	3.773	2.680	2.731	0.403	8.210	14.755	75.800
24	1.200	3.937	9.010	9.062	0.313	8.280	3.454	86.700
25	1.250	4.101	4.750	4.815	0.244	10.370	5.068	86.200
26	1.300	4.265	1.200	1.308	0.190	17.260	14.529	84.900
27	1.350	4.429	5.900	6.080	0.058	28.830	0.954	93.400
28	1.400	4.593	47.770	49.189	0.300	227.270	0.610	85.000
29	1.450	4.757	92.610	92.874	0.604	42.300	0.650	85.900
30	1.500	4.921	91.630	91.724	0.870	15.010	0.949	76.900
31	1.550	5.085	62.410	62.415	0.587	0.860	0.940	55.900
32	1.600	5.249	44.210	44.182	0.399	-4.470	0.903	65.900
33	1.650	5.413	36.860	36.866	0.345	0.910	0.936	47.700
34	1.700	5.577	35.460	35.454	0.421	-0.940	1.187	24.200
35	1.750	5.741	31.940	31.942	0.666	0.300	2.085	24.300
36	1.800	5.905	19.750	19.871	0.501	19.340	2.521	21.000
37	1.850	6.069	16.430	16.472	0.570	6.720	3.460	15.100
38	1.900	6.234	13.630	13.661	0.359	5.000	2.628	11.000
39	1.950	6.398	15.010	15.005	0.321	-0.880	2.139	15.500
40	2.000	6.562	10.600	10.620	0.177	3.230	1.667	17.400
41	2.050	6.726	10.140	10.196	0.152	8.930	1.491	6.600
42	2.100	6.890	15.900	15.909	0.187	1.380	1.175	10.400
43	2.150	7.054	9.600	9.620	0.170	3.280	1.767	16.100
44	2.200	7.218	10.450	10.515	0.189	10.390	1.797	16.100
45	2.250	7.382	14.860	14.863	0.122	0.460	0.821	13.900
46	2.300	7.546	16.720	16.759	0.045	6.290	0.269	12.900
47	2.350	7.710	15.820	15.857	0.025	5.970	0.158	12.900
48	2.400	7.874	14.490	14.541	0.112	8.120	0.770	11.700
49	2.450	8.038	38.620	38.617	0.168	-0.510	0.435	17.600
50	2.500	8.202	75.070	75.165	0.456	15.180	0.607	24.800
51	2.550	8.366	94.080	94.291	0.371	33.810	0.393	21.600
52	2.600	8.530	76.380	76.380	0.280	-0.040	0.367	18.000
53	2.650	8.694	48.990	49.038	0.271	7.730	0.553	24.200
54	2.700	8.858	38.720	38.751	0.372	5.030	0.960	32.300
55	2.750	9.022	52.950	52.990	0.662	6.350	1.249	33.100
56	2.800	9.186	62.530	62.561	0.897	5.040	1.434	24.500
57	2.850	9.350	102.020	102.037	0.982	2.700	0.962	32.600
58	2.900	9.514	67.840	67.887	0.965	7.560	1.421	30.200
59	2.950	9.678	42.580	42.596	0.740	2.630	1.737	33.200
60	3.000	9.842	21.740	21.747	0.375	1.160	1.724	37.600
61	3.050	10.006	12.050	12.035	0.303	-2.450	2.518	36.200
62	3.100	10.170	9.430	9.430	0.247	0.080	2.619	39.000
63	3.150	10.335	6.240	6.256	0.286	2.580	4.572	31.600
64	3.200	10.499	12.290	12.386	1.321	15.400	10.665	30.200
65	3.250	10.663	88.280	88.300	1.598	3.140	1.810	23.900
66	3.300	10.827	26.660	26.677	1.742	2.650	6.530	25.700
67	3.350	10.991	27.140	27.205	1.433	10.360	5.267	29.300
68	3.400	11.155	43.170	43.193	0.796	3.640	1.843	29.000
69	3.450	11.319	30.820	30.849	0.688	4.670	2.230	33.500
70	3.500	11.483	12.830	12.832	0.465	0.370	3.624	53.800
71	3.550	11.647	9.330	9.343	0.212	2.130	2.269	52.900
72	3.600	11.811	11.520	11.527	0.445	1.080	3.861	49.200
73	3.650	11.975	19.180	19.345	0.544	26.490	2.812	42.600
74	3.700	12.139	54.150	54.293	0.824	22.950	1.518	31.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	69.610	69.668	0.580	9.220	0.833	31.900
76	3.800	12.467	31.180	31.258	0.615	12.510	1.967	33.500
77	3.850	12.631	35.600	35.636	0.426	5.760	1.195	33.700
78	3.900	12.795	53.650	53.646	0.440	-0.690	0.820	25.900
79	3.950	12.959	73.170	73.192	0.833	3.540	1.138	37.800
80	4.000	13.123	31.170	31.197	0.938	4.250	3.007	48.800
81	4.050	13.287	24.670	24.841	1.162	27.340	4.678	59.300
82	4.100	13.451	45.190	45.188	0.872	-0.400	1.930	57.400
83	4.150	13.615	42.420	42.421	0.932	0.190	2.197	70.100
84	4.200	13.779	32.930	33.010	0.623	12.770	1.887	83.800
85	4.250	13.943	13.860	14.010	0.579	23.960	4.133	81.400
86	4.300	14.107	16.590	16.759	0.570	27.050	3.401	79.100
87	4.350	14.271	17.230	17.373	0.610	22.830	3.511	83.800
88	4.400	14.436	15.240	15.308	0.686	10.910	4.481	81.000
89	4.450	14.600	14.700	14.769	0.741	11.000	5.017	62.000
90	4.500	14.764	15.890	16.006	1.027	18.660	6.416	47.100
91	4.550	14.928	33.300	33.506	1.084	32.990	3.235	44.100
92	4.600	15.092	22.500	22.977	1.148	76.360	4.996	25.700
93	4.650	15.256	94.130	94.126	1.108	-0.690	1.177	28.500
94	4.700	15.420	76.420	76.495	1.196	11.990	1.564	24.800
95	4.750	15.584	60.310	60.329	1.647	3.040	2.730	22.000
96	4.800	15.748	87.490	87.511	1.343	3.310	1.535	22.700
97	4.850	15.912	11.740	11.819	1.176	12.690	9.950	23.100
98	4.900	16.076	17.750	17.769	0.404	3.080	2.274	27.100
99	4.950	16.240	17.700	17.707	0.372	1.120	2.101	27.600
100	5.000	16.404	23.870	23.879	0.301	1.470	1.261	26.200
101	5.050	16.568	64.840	64.867	0.753	4.300	1.161	33.600
102	5.100	16.732	96.450	96.812	0.932	58.010	0.963	30.100
103	5.150	16.896	37.820	37.843	0.992	3.610	2.621	37.500
104	5.200	17.060	29.670	29.681	0.938	1.710	3.160	35.800
105	5.250	17.224	23.170	23.184	0.539	2.240	2.325	51.300
106	5.300	17.388	16.220	16.223	0.367	0.460	2.262	59.000
107	5.350	17.552	7.060	7.063	0.122	0.540	1.727	60.900
108	5.400	17.716	6.080	6.088	0.154	1.260	2.530	67.500
109	5.450	17.880	11.090	11.125	0.256	5.600	2.301	77.500
110	5.500	18.044	24.060	24.106	0.460	7.350	1.908	84.400
111	5.550	18.208	29.800	29.825	0.359	4.000	1.204	87.700
112	5.600	18.372	34.880	34.922	0.520	6.730	1.489	91.100
113	5.650	18.537	60.090	60.083	0.777	-1.070	1.293	77.600
114	5.700	18.701	77.310	77.288	1.776	-3.560	2.298	93.400
115	5.750	18.865	99.080	99.008	1.483	-11.600	1.498	86.700
116	5.800	19.029	67.020	66.966	1.429	-8.720	2.134	76.900
117	5.850	19.193	68.390	68.337	1.398	-8.540	2.046	78.600
118	5.900	19.357	59.660	59.607	1.218	-8.460	2.043	89.800
119	5.950	19.521	57.630	57.580	1.044	-7.980	1.813	69.500
120	6.000	19.685	48.770	48.719	1.034	-8.110	2.122	75.700
121	6.050	19.849	40.580	40.536	0.941	-7.020	2.321	64.300
122	6.100	20.013	30.860	30.822	1.079	-6.140	3.501	68.700
123	6.150	20.177	37.460	37.406	1.451	-8.690	3.879	57.000
124	6.200	20.341	35.960	35.909	1.470	-8.230	4.094	56.200
125	6.250	20.505	40.330	40.278	1.517	-8.270	3.766	48.200
126	6.300	20.669	35.450	35.396	1.538	-8.730	4.345	46.800
127	6.350	20.833	27.650	27.591	1.192	-9.480	4.320	50.700
128	6.400	20.997	19.170	19.161	1.230	-1.490	6.419	51.600
129	6.450	21.161	41.150	41.504	1.133	56.770	2.730	63.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	61.540	61.562	1.572	3.490	2.554	72.800
131	6.550	21.489	99.140	99.093	2.255	-7.470	2.276	71.800
132	6.600	21.653	88.360	88.277	2.636	-13.300	2.986	87.500
133	6.650	21.817	95.690	95.648	2.378	-6.720	2.486	80.900
134	6.700	21.981	73.020	72.969	1.809	-8.120	2.479	75.600
135	6.750	22.145	48.230	48.151	1.502	-12.710	3.119	57.900
136	6.800	22.309	34.950	34.872	2.732	-12.540	7.834	49.200
137	6.850	22.473	55.000	54.933	2.507	-10.760	4.564	30.500
138	6.900	22.638	63.990	63.982	1.777	-1.360	2.777	24.900
139	6.950	22.802	38.870	38.843	1.389	-4.400	3.576	14.600
140	7.000	22.966	38.040	38.036	1.144	-0.710	3.008	21.100
141	7.050	23.130	68.790	68.836	1.471	7.290	2.137	17.500
142	7.100	23.294	56.810	56.834	2.267	3.780	3.989	11.800
143	7.150	23.458	75.990	76.009	2.494	3.020	3.281	18.000
144	7.200	23.622	65.740	65.761	2.134	3.320	3.245	15.500
145	7.250	23.786	50.580	50.606	1.793	4.120	3.543	21.900
146	7.300	23.950	39.370	39.407	1.951	5.950	4.951	33.300
147	7.350	24.114	47.500	47.574	1.520	11.930	3.195	41.300
148	7.400	24.278	48.760	48.777	1.775	2.660	3.639	60.500
149	7.450	24.442	60.210	60.222	1.487	1.950	2.469	70.100
150	7.500	24.606	23.640	23.688	1.372	7.620	5.792	84.800
151	7.550	24.770	31.080	31.128	0.795	7.610	2.554	74.000
152	7.600	24.934	31.600	31.614	0.838	2.240	2.651	65.800
153	7.650	25.098	22.580	22.543	0.687	-5.880	3.047	65.400
154	7.700	25.262	14.190	14.145	0.449	-7.220	3.174	56.600
155	7.750	25.426	12.780	12.773	0.511	-1.160	4.001	72.500
156	7.800	25.590	15.500	15.507	0.791	1.190	5.101	92.200
157	7.850	25.754	34.140	34.164	1.210	3.900	3.542	132.700
158	7.900	25.918	84.920	84.935	1.339	2.470	1.576	195.800
159	7.950	26.082	32.220	32.251	1.147	4.970	3.556	332.800
160	8.000	26.246	49.960	49.959	1.038	-0.120	2.078	538.900
161	8.050	26.410	29.840	29.843	1.057	0.470	3.542	774.400
162	8.100	26.574	26.420	26.421	1.016	0.090	3.845	985.800
163	8.150	26.739	27.990	28.103	1.116	18.160	3.971	930.900
164	8.200	26.903	20.280	20.390	0.986	17.600	4.836	721.300
165	8.250	27.067	43.250	43.414	0.861	26.250	1.983	500.200
166	8.300	27.231	23.300	23.339	0.635	6.210	2.721	426.500
167	8.350	27.395	21.650	21.679	0.663	4.670	3.058	544.000
168	8.400	27.559	9.370	9.416	0.439	7.350	4.662	863.200
169	8.450	27.723	54.200	54.217	0.362	2.690	0.668	1590.300
170	8.500	27.887	45.950	46.015	0.756	10.440	1.643	2465.300
171	8.550	28.051	29.730	29.766	1.149	5.720	3.860	3197.600
172	8.600	28.215	40.600	40.653	1.407	8.470	3.461	3048.700
173	8.650	28.379	69.220	69.282	1.897	9.910	2.738	2080.700
174	8.700	28.543	104.470	104.563	1.829	14.880	1.749	1114.600
175	8.750	28.707	82.060	82.061	2.245	0.170	2.736	635.200
176	8.800	28.871	66.820	66.830	1.995	1.680	2.985	365.200
177	8.850	29.035	55.040	55.105	1.398	10.480	2.537	225.100
178	8.900	29.199	53.130	53.181	1.379	8.110	2.593	156.900
179	8.950	29.363	66.780	66.832	2.062	8.300	3.085	113.500
180	9.000	29.527	62.490	62.592	2.046	16.270	3.269	99.100
181	9.050	29.691	73.820	73.934	1.954	18.260	2.643	91.500
182	9.100	29.855	26.130	27.041	1.724	145.990	6.375	64.800
183	9.150	30.019	33.360	33.518	1.519	25.350	4.532	60.200
184	9.200	30.183	32.120	32.252	1.018	21.220	3.156	65.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	24.220	24.348	0.788	20.500	3.236	62.200
186	9.300	30.511	38.980	39.133	0.860	24.440	2.198	53.900
187	9.350	30.675	36.340	36.439	0.926	15.790	2.541	48.600
188	9.400	30.840	32.090	32.197	0.994	17.100	3.087	47.100
189	9.450	31.004	53.150	53.301	1.349	24.240	2.531	48.300
190	9.500	31.168	69.800	69.880	1.349	12.870	1.930	37.000
191	9.550	31.332	26.230	26.367	1.160	22.010	4.399	47.600
192	9.600	31.496	29.270	29.339	0.741	11.100	2.526	53.800
193	9.650	31.660	36.390	36.401	0.835	1.700	2.294	54.700
194	9.700	31.824	45.850	45.872	0.301	3.520	0.656	52.000
195	9.750	31.988	54.190	54.188	0.320	-0.280	0.591	37.100
196	9.800	32.152	69.320	69.347	0.444	4.270	0.640	42.900
197	9.850	32.316	55.450	55.483	0.709	5.240	1.278	46.800
198	9.900	32.480	63.800	63.809	1.110	1.390	1.740	44.800
199	9.950	32.644	63.800	63.818	0.973	2.870	1.525	37.600
200	10.000	32.808	48.830	48.895	0.849	10.340	1.736	35.800
201	10.050	32.972	75.380	75.394	0.634	2.250	0.841	32.800
202	10.100	33.136	70.630	70.650	0.447	3.270	0.633	31.800
203	10.150	33.300	56.380	56.410	0.814	4.800	1.443	19.600
204	10.200	33.464	50.930	50.972	1.017	6.750	1.995	17.800
205	10.250	33.628	29.360	29.390	0.944	4.830	3.212	18.800
206	10.300	33.792	36.330	36.358	1.025	4.530	2.819	16.000
207	10.350	33.956	40.160	40.230	1.105	11.250	2.747	14.900
208	10.400	34.120	29.570	29.658	1.147	14.170	3.867	13.500
209	10.450	34.284	38.010	38.092	1.362	13.180	3.576	12.100
210	10.500	34.448	98.790	98.865	2.102	12.020	2.126	17.500
211	10.550	34.612	80.750	80.832	3.052	13.080	3.776	13.100
212	10.600	34.776	93.920	94.275	3.507	56.920	3.720	17.500
213	10.650	34.941	164.760	164.926	3.342	26.610	2.026	15.500
214	10.700	35.105	50.900	50.925	2.787	3.980	5.473	15.500
215	10.750	35.269	20.140	20.233	1.983	14.950	9.801	15.300
216	10.800	35.433	39.550	39.630	1.194	12.820	3.013	29.100
217	10.850	35.597	24.410	24.589	1.184	28.750	4.815	21.800
218	10.900	35.761	98.340	98.521	2.724	28.940	2.765	22.400
219	10.950	35.925	161.480	161.666	4.127	29.780	2.553	13.900
220	11.000	36.089	115.090	115.247	4.246	25.070	3.684	15.400
221	11.050	36.253	56.060	56.245	2.892	29.680	5.142	19.100
222	11.100	36.417	53.280	54.214	1.500	149.690	2.767	17.600
223	11.150	36.581	39.900	40.367	1.258	74.770	3.116	8.900
224	11.200	36.745	44.450	44.768	1.436	50.880	3.208	13.700
225	11.250	36.909	53.010	53.206	1.659	31.330	3.118	10.100
226	11.300	37.073	57.360	57.508	2.177	23.730	3.786	15.300
227	11.350	37.237	69.030	69.229	2.574	31.910	3.718	17.500
228	11.400	37.401	90.680	90.854	3.073	27.940	3.382	21.300
229	11.450	37.565	75.970	76.124	3.025	24.610	3.974	28.600
230	11.500	37.729	70.340	70.657	2.940	50.800	4.161	28.300
231	11.550	37.893	49.170	49.304	2.332	21.430	4.730	26.500
232	11.600	38.057	46.730	46.874	1.622	23.120	3.460	24.000
233	11.650	38.221	73.640	73.776	0.945	21.770	1.281	19.100
234	11.700	38.385	145.730	145.807	1.564	12.320	1.073	24.300
235	11.750	38.549	118.600	118.646	1.437	7.290	1.211	21.200
236	11.800	38.713	63.770	63.773	1.673	0.470	2.623	30.800
237	11.850	38.877	39.610	39.933	1.350	51.670	3.381	32.600
238	11.900	39.042	55.690	55.814	1.359	19.870	2.435	34.700
239	11.950	39.206	50.850	50.932	1.485	13.110	2.916	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	41.320	41.445	1.308	20.070	3.156	0.000
241	12.050	39.534	32.330	32.450	1.139	19.160	3.510	0.000
242	12.100	39.698	93.290	93.401	1.360	17.860	1.456	0.000
243	12.150	39.862	48.640	48.750	1.214	17.690	2.490	0.000
244	12.200	40.026	13.170	13.232	1.066	9.930	8.056	0.000
245	12.250	40.190	8.880	8.917	0.339	5.940	3.802	0.000
246	12.300	40.354	8.350	8.386	0.383	5.800	4.567	0.000
247	12.350	40.518	8.550	8.599	0.565	7.790	6.571	0.000
248	12.400	40.682	24.090	24.119	0.855	4.660	3.545	0.000
249	12.450	40.846	32.990	33.050	1.077	9.650	3.259	0.000
250	12.500	41.010	27.160	27.239	1.265	12.600	4.644	0.000
251	12.550	41.174	26.320	26.467	1.290	23.610	4.874	0.000
252	12.600	41.338	27.750	28.049	1.885	47.920	6.720	0.000
253	12.650	41.502	119.980	120.323	0.000	54.920	0.000	0.000
254	12.700	41.666	184.650	184.857	0.000	33.150	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221559
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-7-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-15-2013
CPT Time:	10:07
CPT File:	13-53075_GP7-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722152.972
Northing / Lat:	4294341.285
Elevation:	143.408
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	10.840	10.837	0.099	-0.420	0.914	41.500
2	0.100	0.328	23.400	23.398	0.107	-0.320	0.457	48.500
3	0.150	0.492	23.970	23.970	0.448	-0.060	1.869	60.600
4	0.200	0.656	27.350	27.349	0.528	-0.100	1.931	60.200
5	0.250	0.820	14.720	14.720	0.692	-0.040	4.701	78.200
6	0.300	0.984	25.120	25.125	0.676	0.810	2.691	75.100
7	0.350	1.148	30.490	30.496	0.654	0.930	2.145	73.900
8	0.400	1.312	33.370	33.373	0.602	0.450	1.804	98.500
9	0.450	1.476	40.470	40.471	0.501	0.220	1.238	89.600
10	0.500	1.640	42.330	42.332	0.498	0.310	1.176	77.500
11	0.550	1.804	43.990	43.991	0.451	0.110	1.025	76.600
12	0.600	1.968	40.420	40.420	0.384	-0.060	0.950	74.500
13	0.650	2.133	35.270	35.269	0.327	-0.190	0.927	68.900
14	0.700	2.297	29.790	29.789	0.229	-0.190	0.769	59.000
15	0.750	2.461	28.410	28.410	0.275	-0.010	0.968	55.000
16	0.800	2.625	32.730	32.730	0.432	0.070	1.320	44.800
17	0.850	2.789	21.530	21.530	0.404	0.030	1.876	41.900
18	0.900	2.953	13.660	13.662	0.277	0.280	2.028	31.700
19	0.950	3.117	25.190	25.192	0.202	0.280	0.802	31.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	35.210	35.212	0.633	0.380	1.798	26.600
21	1.050	3.445	47.550	47.556	0.944	0.920	1.985	24.400
22	1.100	3.609	12.070	12.103	0.806	5.350	6.659	19.900
23	1.150	3.773	16.580	16.605	0.339	4.060	2.042	14.600
24	1.200	3.937	31.870	31.890	0.283	3.220	0.887	14.500
25	1.250	4.101	67.670	67.682	0.593	1.990	0.876	13.000
26	1.300	4.265	86.480	86.493	0.585	2.130	0.676	16.500
27	1.350	4.429	101.960	101.976	0.192	2.510	0.188	10.100
28	1.400	4.593	121.080	121.133	0.101	8.430	0.083	14.500
29	1.450	4.757	108.720	108.787	0.780	10.760	0.717	16.100
30	1.500	4.921	139.430	139.488	1.053	9.340	0.755	12.700
31	1.550	5.085	135.390	135.425	0.316	5.630	0.233	19.700
32	1.600	5.249	156.540	156.566	0.339	4.120	0.217	21.000
33	1.650	5.413	184.960	184.973	1.071	2.120	0.579	16.500
34	1.700	5.577	197.830	197.840	0.769	1.610	0.389	26.000
35	1.750	5.741	224.750	224.764	2.729	2.200	1.214	35.900
36	1.800	5.905	176.280	176.305	3.033	4.070	1.720	49.300
37	1.850	6.069	38.830	38.831	2.922	0.130	7.525	62.900
38	1.900	6.234	12.300	12.302	1.148	0.380	9.332	82.800
39	1.950	6.398	15.630	15.649	0.341	3.090	2.179	67.900
40	2.000	6.562	18.900	18.887	0.338	-2.120	1.790	82.400
41	2.050	6.726	12.170	12.170	0.387	0.070	3.180	93.900
42	2.100	6.890	9.190	9.193	0.359	0.440	3.905	81.300
43	2.150	7.054	9.750	9.760	0.329	1.630	3.371	78.400
44	2.200	7.218	13.190	13.172	0.394	-2.900	2.991	70.400
45	2.250	7.382	14.560	14.601	0.485	6.610	3.322	97.000
46	2.300	7.546	25.480	25.510	0.460	4.830	1.803	86.800
47	2.350	7.710	54.160	54.142	0.552	-2.890	1.020	91.900
48	2.400	7.874	59.300	59.258	0.669	-6.750	1.129	103.400
49	2.450	8.038	60.590	60.538	0.521	-8.250	0.861	90.700
50	2.500	8.202	56.060	55.996	0.521	-10.250	0.930	87.300
51	2.550	8.366	47.020	46.951	0.648	-11.040	1.380	88.100
52	2.600	8.530	46.680	46.607	0.579	-11.650	1.242	84.000
53	2.650	8.694	30.020	29.945	0.661	-12.030	2.207	64.600
54	2.700	8.858	28.220	28.212	0.578	-1.260	2.049	52.500
55	2.750	9.022	16.440	16.438	0.755	-0.360	4.593	46.000
56	2.800	9.186	8.960	8.958	0.896	-0.260	10.002	38.700
57	2.850	9.350	22.800	22.799	0.544	-0.140	2.386	37.500
58	2.900	9.514	24.600	24.598	0.685	-0.280	2.785	30.500
59	2.950	9.678	54.160	54.156	0.544	-0.620	1.005	35.100
60	3.000	9.842	50.460	50.458	0.655	-0.280	1.298	40.600
61	3.050	10.006	18.070	18.059	0.736	-1.810	4.076	51.500
62	3.100	10.170	39.600	39.585	0.448	-2.370	1.132	54.900
63	3.150	10.335	50.330	50.329	0.308	-0.140	0.612	47.600
64	3.200	10.499	45.540	45.537	0.891	-0.420	1.957	69.800
65	3.250	10.663	82.350	82.345	0.772	-0.740	0.938	64.500
66	3.300	10.827	122.520	122.507	1.035	-2.080	0.845	59.600
67	3.350	10.991	145.870	145.861	2.229	-1.400	1.528	66.800
68	3.400	11.155	131.510	131.510	2.243	0.040	1.706	69.200
69	3.450	11.319	171.700	171.694	3.117	-1.030	1.815	66.200
70	3.500	11.483	137.550	137.549	2.421	-0.200	1.760	72.800
71	3.550	11.647	151.990	151.990	2.561	0.030	1.685	73.900
72	3.600	11.811	135.210	135.210	2.538	-0.070	1.877	73.800
73	3.650	11.975	158.930	158.927	3.520	-0.410	2.215	72.100
74	3.700	12.139	150.100	150.095	3.417	-0.780	2.277	72.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	88.230	88.229	2.947	-0.230	3.340	77.300
76	3.800	12.467	51.530	51.543	2.739	2.120	5.314	77.700
77	3.850	12.631	55.510	55.513	1.645	0.540	2.963	85.700
78	3.900	12.795	51.850	51.827	1.085	-3.660	2.093	66.200
79	3.950	12.959	50.950	50.917	0.925	-5.280	1.817	78.200
80	4.000	13.123	42.960	42.921	0.861	-6.180	2.006	69.100
81	4.050	13.287	36.840	36.788	0.856	-8.310	2.327	64.400
82	4.100	13.451	31.200	31.165	0.931	-5.550	2.987	62.800
83	4.150	13.615	25.930	25.896	0.859	-5.410	3.317	46.400
84	4.200	13.779	30.160	30.128	0.932	-5.070	3.093	38.100
85	4.250	13.943	45.990	45.973	1.265	-2.730	2.752	33.500
86	4.300	14.107	31.510	31.507	1.219	-0.520	3.869	24.500
87	4.350	14.271	19.320	19.325	1.133	0.750	5.863	39.700
88	4.400	14.436	14.500	14.498	0.720	-0.250	4.966	43.900
89	4.450	14.600	25.720	25.718	1.000	-0.330	3.888	53.200
90	4.500	14.764	39.620	39.613	1.285	-1.060	3.244	43.100
91	4.550	14.928	33.570	33.565	1.351	-0.730	4.025	43.500
92	4.600	15.092	27.730	27.724	1.276	-0.980	4.603	25.500
93	4.650	15.256	32.880	32.880	0.935	-0.050	2.844	29.300
94	4.700	15.420	16.480	16.482	0.778	0.350	4.720	37.200
95	4.750	15.584	14.840	14.835	0.418	-0.860	2.818	41.000
96	4.800	15.748	16.210	16.206	0.292	-0.660	1.802	43.200
97	4.850	15.912	18.440	18.436	0.221	-0.690	1.199	54.300
98	4.900	16.076	18.680	18.676	0.343	-0.650	1.837	75.900
99	4.950	16.240	20.830	20.829	0.499	-0.190	2.396	75.500
100	5.000	16.404	23.640	23.605	0.687	-5.600	2.910	64.100
101	5.050	16.568	24.650	24.593	0.888	-9.110	3.611	74.900
102	5.100	16.732	20.650	20.577	0.813	-11.740	3.951	80.500
103	5.150	16.896	27.720	27.646	0.602	-11.930	2.178	67.800
104	5.200	17.060	41.540	41.465	0.629	-11.940	1.517	64.900
105	5.250	17.224	23.220	23.179	0.621	-6.530	2.679	48.800
106	5.300	17.388	19.310	19.278	0.707	-5.070	3.667	50.800
107	5.350	17.552	24.710	24.677	0.632	-5.310	2.561	39.900
108	5.400	17.716	41.030	40.998	0.815	-5.160	1.988	26.800
109	5.450	17.880	32.230	32.212	0.776	-2.960	2.409	37.200
110	5.500	18.044	22.700	22.690	0.717	-1.540	3.160	32.000
111	5.550	18.208	17.710	17.703	0.538	-1.160	3.039	29.700
112	5.600	18.372	37.470	37.469	0.501	-0.180	1.337	28.600
113	5.650	18.537	32.470	32.459	0.567	-1.700	1.747	29.400
114	5.700	18.701	41.650	41.639	0.504	-1.730	1.210	28.300
115	5.750	18.865	18.590	18.585	0.584	-0.790	3.142	30.200
116	5.800	19.029	12.890	12.885	0.369	-0.830	2.864	29.200
117	5.850	19.193	24.390	24.387	0.292	-0.420	1.197	29.300
118	5.900	19.357	10.710	10.709	0.395	-0.230	3.689	25.000
119	5.950	19.521	8.290	8.294	0.321	0.660	3.870	27.600
120	6.000	19.685	23.110	23.118	0.874	1.290	3.781	20.800
121	6.050	19.849	73.710	73.711	1.217	0.100	1.651	18.700
122	6.100	20.013	62.710	62.737	1.492	4.270	2.378	16.500
123	6.150	20.177	57.330	57.337	1.956	1.150	3.411	17.000
124	6.200	20.341	32.630	32.636	1.387	0.900	4.250	17.600
125	6.250	20.505	26.550	26.548	1.290	-0.390	4.859	19.100
126	6.300	20.669	32.350	32.345	1.178	-0.870	3.642	13.400
127	6.350	20.833	33.890	33.879	1.176	-1.710	3.471	18.600
128	6.400	20.997	24.780	24.771	1.090	-1.520	4.400	17.500
129	6.450	21.161	44.680	44.676	1.000	-0.720	2.238	17.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	38.510	38.508	0.828	-0.360	2.150	13.400
131	6.550	21.489	24.730	24.728	1.397	-0.350	5.650	12.500
132	6.600	21.653	71.480	71.480	1.416	0.050	1.981	7.700
133	6.650	21.817	95.330	95.339	2.761	1.510	2.896	10.600
134	6.700	21.981	50.800	50.807	2.556	1.050	5.031	17.100
135	6.750	22.145	61.070	61.082	2.065	1.880	3.381	15.000
136	6.800	22.309	84.530	84.539	1.837	1.480	2.173	21.600
137	6.850	22.473	144.720	144.724	1.485	0.710	1.026	10.300
138	6.900	22.638	165.590	165.604	1.839	2.270	1.110	19.500
139	6.950	22.802	62.570	62.582	2.173	1.910	3.472	15.500
140	7.000	22.966	42.540	42.551	1.519	1.830	3.570	23.100
141	7.050	23.130	44.250	44.262	1.252	1.870	2.829	27.800
142	7.100	23.294	27.630	27.639	1.122	1.440	4.059	22.300
143	7.150	23.458	24.010	24.016	0.923	0.980	3.843	34.800
144	7.200	23.622	18.360	18.364	0.531	0.660	2.892	32.300
145	7.250	23.786	30.090	30.092	0.565	0.310	1.878	30.300
146	7.300	23.950	42.630	42.631	0.689	0.230	1.616	52.600
147	7.350	24.114	22.240	22.241	0.629	0.090	2.828	56.500
148	7.400	24.278	15.580	15.585	0.719	0.780	4.613	55.400
149	7.450	24.442	17.550	17.556	0.304	1.000	1.732	59.500
150	7.500	24.606	13.620	13.625	0.421	0.820	3.090	54.400
151	7.550	24.770	33.650	33.662	0.685	1.950	2.035	48.000
152	7.600	24.934	30.080	30.092	0.811	1.980	2.695	59.300
153	7.650	25.098	18.850	18.860	0.858	1.590	4.549	62.700
154	7.700	25.262	15.450	15.463	0.445	2.120	2.878	58.500
155	7.750	25.426	23.140	23.154	0.395	2.240	1.706	63.900
156	7.800	25.590	23.790	23.802	0.376	1.900	1.580	63.300
157	7.850	25.754	18.630	18.644	0.716	2.210	3.840	59.900
158	7.900	25.918	30.880	30.895	0.740	2.400	2.395	60.100
159	7.950	26.082	42.250	42.262	0.658	1.940	1.557	43.100
160	8.000	26.246	32.920	32.924	0.828	0.680	2.515	38.300
161	8.050	26.410	37.580	37.585	1.193	0.870	3.174	38.600
162	8.100	26.574	62.260	62.269	1.762	1.420	2.830	27.000
163	8.150	26.739	81.600	81.611	2.015	1.690	2.469	24.100
164	8.200	26.903	94.710	94.722	3.160	1.900	3.336	21.100
165	8.250	27.067	106.410	106.421	3.800	1.840	3.571	25.800
166	8.300	27.231	119.400	119.413	4.883	2.020	4.089	19.900
167	8.350	27.395	79.600	79.613	4.256	2.070	5.346	13.800
168	8.400	27.559	177.090	177.105	3.583	2.360	2.023	18.000
169	8.450	27.723	96.140	96.153	3.769	2.110	3.920	16.500
170	8.500	27.887	130.540	130.556	3.860	2.570	2.957	19.600
171	8.550	28.051	146.490	146.499	4.873	1.480	3.326	19.000
172	8.600	28.215	106.410	106.411	5.097	0.150	4.790	22.400
173	8.650	28.379	92.650	92.679	4.100	4.580	4.424	28.500
174	8.700	28.543	84.770	84.795	3.385	4.040	3.992	47.100
175	8.750	28.707	108.980	109.000	3.753	3.230	3.443	37.300
176	8.800	28.871	225.780	225.803	3.686	3.730	1.632	45.500
177	8.850	29.035	121.120	121.138	2.879	2.900	2.377	46.200
178	8.900	29.199	90.760	90.774	1.634	2.210	1.800	53.900
179	8.950	29.363	104.370	104.382	1.158	1.990	1.109	58.500
180	9.000	29.527	96.350	96.363	1.113	2.030	1.155	61.900
181	9.050	29.691	90.660	90.673	1.046	2.100	1.154	70.900
182	9.100	29.855	93.830	93.844	1.066	2.180	1.136	73.800
183	9.150	30.019	94.290	94.303	1.055	2.160	1.119	65.200
184	9.200	30.183	87.020	87.035	1.164	2.330	1.337	59.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	100.350	100.365	1.018	2.350	1.014	59.900
186	9.300	30.511	97.650	97.665	1.147	2.370	1.174	75.100
187	9.350	30.675	86.790	86.804	1.762	2.170	2.030	82.100
188	9.400	30.840	67.160	67.178	2.236	2.830	3.328	81.400
189	9.450	31.004	64.550	64.569	2.120	3.070	3.283	86.500
190	9.500	31.168	81.090	81.110	2.329	3.170	2.871	81.900
191	9.550	31.332	88.200	88.219	1.869	3.030	2.119	74.100
192	9.600	31.496	90.080	90.098	1.562	2.880	1.734	85.000
193	9.650	31.660	82.280	82.298	1.470	2.870	1.786	80.800
194	9.700	31.824	66.040	66.058	1.677	2.850	2.539	57.900
195	9.750	31.988	63.380	63.398	1.444	2.920	2.278	73.800
196	9.800	32.152	66.940	66.960	1.265	3.140	1.889	80.000
197	9.850	32.316	77.810	77.828	1.236	2.910	1.588	77.700
198	9.900	32.480	75.180	75.198	1.508	2.950	2.005	83.800
199	9.950	32.644	55.520	55.540	1.597	3.210	2.875	86.300
200	10.000	32.808	73.550	73.570	1.278	3.250	1.737	84.200
201	10.050	32.972	83.780	83.799	0.847	3.070	1.011	78.900
202	10.100	33.136	90.170	90.189	0.750	3.080	0.832	75.300
203	10.150	33.300	87.560	87.579	0.769	2.990	0.878	68.800
204	10.200	33.464	84.920	84.938	0.822	2.930	0.968	72.200
205	10.250	33.628	87.440	87.458	1.347	2.920	1.540	58.200
206	10.300	33.792	87.580	87.598	1.507	2.950	1.720	58.300
207	10.350	33.956	93.210	93.228	1.517	2.950	1.627	58.300
208	10.400	34.120	116.450	116.469	2.327	3.020	1.998	34.200
209	10.450	34.284	97.140	97.159	2.175	3.050	2.239	30.300
210	10.500	34.448	72.530	72.549	2.248	3.000	3.099	32.900
211	10.550	34.612	76.550	76.562	2.499	1.920	3.264	27.900
212	10.600	34.776	90.890	90.907	2.182	2.780	2.400	40.500
213	10.650	34.941	46.620	46.627	1.761	1.080	3.777	40.000
214	10.700	35.105	32.840	32.847	0.957	1.100	2.914	42.800
215	10.750	35.269	37.250	37.256	0.329	0.900	0.883	47.300
216	10.800	35.433	56.210	56.214	0.765	0.690	1.361	39.600
217	10.850	35.597	55.690	55.695	1.097	0.770	1.970	29.200
218	10.900	35.761	69.880	69.886	1.656	0.900	2.370	36.900
219	10.950	35.925	53.410	53.412	1.844	0.390	3.452	35.900
220	11.000	36.089	55.300	55.302	1.052	0.270	1.902	46.600
221	11.050	36.253	91.700	91.704	1.999	0.670	2.180	44.900
222	11.100	36.417	93.840	93.844	2.081	0.590	2.218	59.500
223	11.150	36.581	37.520	37.528	1.946	1.360	5.185	48.000
224	11.200	36.745	27.320	27.329	1.186	1.510	4.340	49.000
225	11.250	36.909	22.030	22.042	0.680	1.900	3.085	40.800
226	11.300	37.073	16.910	16.925	0.503	2.410	2.972	41.700
227	11.350	37.237	21.020	21.035	0.657	2.430	3.123	49.000
228	11.400	37.401	30.790	30.806	0.992	2.630	3.220	36.600
229	11.450	37.565	28.900	28.915	1.204	2.470	4.164	31.600
230	11.500	37.729	33.980	33.992	1.055	2.000	3.104	31.400
231	11.550	37.893	14.710	14.721	1.069	1.760	7.262	32.600
232	11.600	38.057	31.590	31.603	1.088	2.160	3.443	34.800
233	11.650	38.221	39.940	39.956	1.224	2.520	3.063	43.700
234	11.700	38.385	31.230	31.248	1.077	2.940	3.447	41.800
235	11.750	38.549	21.570	21.588	0.823	2.950	3.812	50.200
236	11.800	38.713	14.150	14.169	0.662	3.080	4.672	50.900
237	11.850	38.877	21.770	21.789	0.557	3.100	2.556	43.200
238	11.900	39.042	31.700	31.719	0.666	3.000	2.100	38.800
239	11.950	39.206	38.740	38.757	1.031	2.720	2.660	46.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	50.060	50.078	1.287	2.930	2.570	46.100
241	12.050	39.534	50.370	50.391	1.383	3.370	2.745	47.100
242	12.100	39.698	49.600	49.619	1.620	3.100	3.265	54.300
243	12.150	39.862	59.100	59.120	1.381	3.270	2.336	61.500
244	12.200	40.026	55.530	55.550	1.015	3.270	1.827	65.200
245	12.250	40.190	52.260	52.273	0.756	2.020	1.446	61.200
246	12.300	40.354	39.490	39.503	0.595	2.030	1.506	74.700
247	12.350	40.518	23.740	23.752	0.505	1.920	2.126	81.700
248	12.400	40.682	20.750	20.763	0.356	2.040	1.715	73.000
249	12.450	40.846	31.380	31.393	0.281	2.100	0.895	58.000
250	12.500	41.010	47.100	47.112	0.296	1.990	0.628	61.800
251	12.550	41.174	56.450	56.462	0.298	1.890	0.528	69.100
252	12.600	41.338	59.660	59.672	0.374	1.930	0.627	63.900
253	12.650	41.502	59.750	59.761	0.491	1.800	0.822	51.600
254	12.700	41.666	56.920	56.931	0.535	1.810	0.940	58.800
255	12.750	41.830	58.080	58.091	0.544	1.800	0.936	67.000
256	12.800	41.994	63.520	63.531	0.557	1.770	0.877	64.600
257	12.850	42.158	63.140	63.151	0.607	1.690	0.961	59.700
258	12.900	42.322	62.960	62.971	0.608	1.770	0.966	59.500
259	12.950	42.486	64.550	64.561	0.635	1.720	0.984	69.200
260	13.000	42.650	70.950	70.961	0.660	1.730	0.930	58.300
261	13.050	42.814	83.360	83.371	0.705	1.800	0.846	68.700
262	13.100	42.978	97.590	97.601	0.808	1.790	0.828	60.300
263	13.150	43.143	109.700	109.712	0.915	1.900	0.834	55.200
264	13.200	43.307	133.270	133.282	1.007	1.860	0.756	53.200
265	13.250	43.471	164.210	164.222	1.140	1.950	0.694	55.500
266	13.300	43.635	187.220	187.232	1.355	1.930	0.724	54.500
267	13.350	43.799	193.670	193.683	1.599	2.110	0.826	50.200
268	13.400	43.963	193.140	193.153	1.664	2.080	0.861	62.100
269	13.450	44.127	191.880	191.894	1.675	2.200	0.873	50.400
270	13.500	44.291	193.610	193.623	1.725	2.160	0.891	53.100
271	13.550	44.455	188.700	188.714	1.757	2.270	0.931	52.800
272	13.600	44.619	182.970	182.985	1.786	2.420	0.976	52.000
273	13.650	44.783	178.230	178.245	1.916	2.350	1.075	61.500
274	13.700	44.947	169.780	169.795	1.928	2.380	1.135	46.000
275	13.750	45.111	184.510	184.525	1.815	2.380	0.984	63.900
276	13.800	45.275	241.540	241.556	1.891	2.540	0.783	54.800
277	13.850	45.439	301.970	301.985	2.223	2.480	0.736	54.600
278	13.900	45.603	321.330	321.346	2.748	2.490	0.855	60.000
279	13.950	45.767	317.250	317.266	2.980	2.510	0.939	54.000
280	14.000	45.931	307.260	307.276	2.902	2.570	0.944	50.200
281	14.050	46.095	300.730	300.746	2.852	2.530	0.948	54.000
282	14.100	46.259	277.800	277.816	2.717	2.570	0.978	46.400
283	14.150	46.423	253.260	253.275	2.600	2.470	1.027	50.200
284	14.200	46.587	224.880	224.895	2.385	2.350	1.060	59.300
285	14.250	46.751	193.710	193.725	2.139	2.330	1.104	54.700
286	14.300	46.915	170.290	170.304	1.714	2.290	1.006	49.100
287	14.350	47.079	173.190	173.204	1.484	2.210	0.857	66.700
288	14.400	47.244	192.540	192.553	1.297	2.150	0.674	47.200
289	14.450	47.408	192.300	192.311	1.301	1.830	0.677	57.500
290	14.500	47.572	202.160	202.170	1.210	1.650	0.599	55.900
291	14.550	47.736	226.870	226.880	1.172	1.600	0.517	51.900
292	14.600	47.900	231.820	231.831	1.635	1.710	0.705	48.500
293	14.650	48.064	250.370	250.380	2.081	1.600	0.831	54.400
294	14.700	48.228	270.770	270.781	2.390	1.760	0.883	58.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	280.630	280.641	2.543	1.770	0.906	51.800
296	14.800	48.556	296.970	296.981	2.418	1.780	0.814	49.500
297	14.850	48.720	308.390	308.401	2.697	1.800	0.875	56.000
298	14.900	48.884	294.720	294.731	2.916	1.710	0.989	62.800
299	14.950	49.048	260.770	260.781	2.979	1.740	1.142	51.500
300	15.000	49.212	253.050	253.061	2.611	1.840	1.032	49.700
301	15.050	49.376	254.810	254.822	2.463	1.890	0.967	60.400
302	15.100	49.540	263.210	263.222	2.595	1.930	0.986	0.000
303	15.150	49.704	258.550	258.562	2.658	1.980	1.028	0.000
304	15.200	49.868	257.370	257.383	2.537	2.020	0.986	0.000
305	15.250	50.032	282.060	282.073	2.492	2.040	0.883	0.000
306	15.300	50.196	287.950	287.963	2.805	2.120	0.974	0.000
307	15.350	50.360	265.860	265.874	3.037	2.180	1.142	0.000
308	15.400	50.524	243.040	243.054	2.905	2.190	1.195	0.000
309	15.450	50.688	241.920	241.935	2.618	2.330	1.082	0.000
310	15.500	50.852	253.510	253.525	2.419	2.340	0.954	0.000
311	15.550	51.016	278.700	278.715	2.211	2.410	0.793	0.000
312	15.600	51.180	308.080	308.095	2.629	2.460	0.853	0.000
313	15.650	51.345	319.170	319.186	3.150	2.600	0.987	0.000
314	15.700	51.509	308.000	308.017	3.282	2.750	1.066	0.000
315	15.750	51.673	307.680	307.697	3.112	2.790	1.011	0.000
316	15.800	51.837	327.550	327.568	0.000	2.900	0.000	0.000
317	15.850	52.001	335.320	335.338	0.000	2.810	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221561
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-7-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	14:12
CPT File:	13-53075_GP7-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722140.912
Northing / Lat:	4294319.677
Elevation:	143.933
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	3.960	3.960	0.002	0.050	0.051	48.800
2	0.100	0.328	14.510	14.510	0.143	0.070	0.985	55.300
3	0.150	0.492	28.670	28.671	0.287	0.210	1.001	57.700
4	0.200	0.656	40.900	40.900	0.461	-0.020	1.127	65.600
5	0.250	0.820	41.090	41.092	0.526	0.330	1.280	80.200
6	0.300	0.984	15.160	15.164	0.534	0.590	3.522	77.000
7	0.350	1.148	13.070	13.073	0.375	0.480	2.869	77.400
8	0.400	1.312	14.770	14.773	0.420	0.510	2.843	93.700
9	0.450	1.476	28.420	28.424	0.549	0.680	1.931	90.800
10	0.500	1.640	47.010	47.018	0.605	1.300	1.287	87.600
11	0.550	1.804	66.660	66.670	0.688	1.580	1.032	88.500
12	0.600	1.968	48.470	48.477	0.493	1.160	1.017	85.900
13	0.650	2.133	46.970	46.976	0.336	0.930	0.715	82.300
14	0.700	2.297	35.080	35.084	0.511	0.650	1.457	80.100
15	0.750	2.461	29.950	29.954	0.515	0.590	1.719	76.400
16	0.800	2.625	21.540	21.542	0.375	0.400	1.741	75.000
17	0.850	2.789	128.320	128.323	1.276	0.560	0.994	65.600
18	0.900	2.953	128.630	128.635	1.733	0.780	1.347	60.200
19	0.950	3.117	58.330	58.331	1.661	0.140	2.848	47.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	29.850	29.859	0.918	1.460	3.074	27.700
21	1.050	3.445	25.160	25.163	0.848	0.530	3.370	43.700
22	1.100	3.609	94.660	94.673	1.734	2.060	1.832	38.400
23	1.150	3.773	99.200	99.218	2.288	2.920	2.306	44.400
24	1.200	3.937	66.550	66.565	2.265	2.400	3.403	60.000
25	1.250	4.101	103.530	103.531	1.750	0.100	1.690	68.700
26	1.300	4.265	48.070	48.071	1.174	0.120	2.442	91.700
27	1.350	4.429	27.750	27.770	0.886	3.250	3.190	88.500
28	1.400	4.593	47.900	47.860	0.766	-6.360	1.600	94.900
29	1.450	4.757	45.280	45.219	0.869	-9.790	1.922	96.100
30	1.500	4.921	43.620	43.549	0.656	-11.340	1.506	100.200
31	1.550	5.085	41.530	41.454	0.738	-12.110	1.780	88.100
32	1.600	5.249	39.420	39.375	0.699	-7.140	1.775	86.400
33	1.650	5.413	40.120	40.104	0.714	-2.590	1.780	88.300
34	1.700	5.577	35.640	35.616	0.670	-3.790	1.881	86.100
35	1.750	5.741	25.880	25.841	0.665	-6.280	2.573	77.000
36	1.800	5.905	16.910	16.852	0.683	-9.260	4.053	51.800
37	1.850	6.069	15.250	15.194	0.398	-8.990	2.619	48.400
38	1.900	6.234	29.430	29.378	0.359	-8.260	1.222	40.200
39	1.950	6.398	23.890	23.888	0.458	-0.260	1.917	36.300
40	2.000	6.562	12.800	12.799	0.621	-0.210	4.852	31.100
41	2.050	6.726	38.670	38.668	0.495	-0.330	1.280	32.800
42	2.100	6.890	35.040	35.041	0.829	0.160	2.366	26.800
43	2.150	7.054	37.040	37.042	0.887	0.290	2.395	29.200
44	2.200	7.218	21.250	21.266	0.568	2.560	2.671	34.000
45	2.250	7.382	39.510	39.506	0.615	-0.620	1.557	38.800
46	2.300	7.546	36.900	36.896	0.581	-0.640	1.575	50.100
47	2.350	7.710	9.020	9.024	0.516	0.580	5.718	61.000
48	2.400	7.874	4.710	4.751	0.499	6.530	10.504	51.900
49	2.450	8.038	5.780	5.788	0.198	1.240	3.421	55.700
50	2.500	8.202	9.070	9.071	0.177	0.200	1.951	58.300
51	2.550	8.366	10.000	10.000	0.410	0.070	4.100	53.100
52	2.600	8.530	20.850	20.851	0.371	0.190	1.779	67.000
53	2.650	8.694	11.590	11.603	0.429	2.070	3.697	68.900
54	2.700	8.858	15.470	15.480	0.351	1.590	2.267	84.100
55	2.750	9.022	15.290	15.314	0.404	3.820	2.638	82.000
56	2.800	9.186	26.460	26.497	0.548	5.990	2.068	83.200
57	2.850	9.350	39.690	39.695	0.613	0.840	1.544	64.200
58	2.900	9.514	40.520	40.481	0.871	-6.210	2.152	45.600
59	2.950	9.678	31.390	31.348	0.986	-6.720	3.145	45.000
60	3.000	9.842	16.950	16.907	0.861	-6.910	5.093	51.300
61	3.050	10.006	21.030	20.991	0.583	-6.320	2.777	48.800
62	3.100	10.170	18.300	18.260	0.410	-6.350	2.245	55.700
63	3.150	10.335	17.370	17.367	0.340	-0.490	1.958	64.400
64	3.200	10.499	20.930	20.929	0.448	-0.150	2.141	83.900
65	3.250	10.663	11.790	11.792	0.516	0.250	4.376	75.300
66	3.300	10.827	17.520	17.534	0.569	2.320	3.245	61.400
67	3.350	10.991	21.030	21.040	0.479	1.570	2.277	45.800
68	3.400	11.155	17.010	17.012	0.540	0.390	3.174	41.900
69	3.450	11.319	21.710	21.709	0.730	-0.100	3.363	44.500
70	3.500	11.483	33.640	33.638	1.123	-0.310	3.338	44.200
71	3.550	11.647	45.700	45.698	1.017	-0.390	2.226	48.100
72	3.600	11.811	22.090	22.091	1.230	0.140	5.568	54.500
73	3.650	11.975	19.660	19.663	1.577	0.520	8.020	51.000
74	3.700	12.139	20.290	20.270	0.547	-3.200	2.699	59.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	10.990	11.000	0.468	1.600	4.255	48.000
76	3.800	12.467	7.370	7.376	0.396	0.980	5.369	40.000
77	3.850	12.631	20.900	20.908	0.364	1.340	1.741	43.100
78	3.900	12.795	22.460	22.463	0.598	0.510	2.662	34.100
79	3.950	12.959	18.090	18.094	0.622	0.570	3.438	34.600
80	4.000	13.123	14.930	14.940	0.616	1.650	4.123	36.900
81	4.050	13.287	12.480	12.490	0.384	1.560	3.075	36.600
82	4.100	13.451	14.110	14.118	0.654	1.300	4.632	58.300
83	4.150	13.615	51.420	51.423	0.851	0.550	1.655	69.400
84	4.200	13.779	24.980	24.997	1.169	2.670	4.677	81.100
85	4.250	13.943	21.860	21.874	0.892	2.230	4.078	81.000
86	4.300	14.107	10.860	10.887	0.689	4.350	6.329	80.800
87	4.350	14.271	13.010	13.046	0.574	5.700	4.400	90.700
88	4.400	14.436	17.900	17.938	0.657	6.080	3.663	90.400
89	4.450	14.600	22.930	22.962	0.826	5.150	3.597	89.400
90	4.500	14.764	41.610	41.643	0.715	5.210	1.717	86.000
91	4.550	14.928	53.110	53.136	0.836	4.220	1.573	84.800
92	4.600	15.092	57.800	57.808	0.910	1.320	1.574	90.500
93	4.650	15.256	57.440	57.441	1.292	0.110	2.249	85.100
94	4.700	15.420	62.200	62.167	1.192	-5.250	1.917	88.500
95	4.750	15.584	47.500	47.468	1.234	-5.190	2.600	90.500
96	4.800	15.748	41.990	41.955	1.090	-5.550	2.598	86.900
97	4.850	15.912	37.820	37.782	0.994	-6.110	2.631	80.500
98	4.900	16.076	39.750	39.713	0.864	-6.000	2.176	83.600
99	4.950	16.240	36.560	36.520	0.591	-6.330	1.618	83.300
100	5.000	16.404	34.490	34.451	0.735	-6.210	2.133	78.700
101	5.050	16.568	31.560	31.522	1.014	-6.020	3.217	74.300
102	5.100	16.732	49.840	49.805	1.506	-5.620	3.024	70.000
103	5.150	16.896	51.830	51.794	2.459	-5.810	4.748	59.800
104	5.200	17.060	52.750	52.710	2.462	-6.380	4.671	58.000
105	5.250	17.224	118.170	118.128	2.819	-6.710	2.386	49.600
106	5.300	17.388	170.560	170.556	3.445	-0.570	2.020	44.900
107	5.350	17.552	135.770	135.770	4.277	-0.080	3.150	43.500
108	5.400	17.716	119.830	119.828	1.408	-0.270	1.175	28.900
109	5.450	17.880	124.050	124.062	1.044	1.970	0.842	31.700
110	5.500	18.044	406.080	406.090	6.728	1.670	1.657	33.500
111	5.550	18.208	142.610	142.612	6.917	0.300	4.850	31.200
112	5.600	18.372	73.680	73.680	6.243	0.030	8.473	35.400
113	5.650	18.537	115.130	115.130	0.716	0.020	0.622	39.700
114	5.700	18.701	174.560	174.560	0.341	0.080	0.195	31.000
115	5.750	18.865	178.560	178.570	0.966	1.610	0.541	35.200
116	5.800	19.029	172.490	172.494	0.521	0.720	0.302	34.100
117	5.850	19.193	124.390	124.396	1.804	0.890	1.450	40.400
118	5.900	19.357	84.340	84.337	1.171	-0.420	1.388	41.200
119	5.950	19.521	42.060	42.060	0.905	0.070	2.152	52.300
120	6.000	19.685	44.350	44.353	1.092	0.460	2.462	42.700
121	6.050	19.849	16.940	16.940	0.646	-0.070	3.814	42.700
122	6.100	20.013	28.930	28.930	0.732	0.000	2.530	42.200
123	6.150	20.177	34.730	34.691	0.818	-6.260	2.358	34.400
124	6.200	20.341	36.060	36.039	0.723	-3.330	2.006	21.800
125	6.250	20.505	36.690	36.681	0.973	-1.490	2.653	22.000
126	6.300	20.669	47.580	47.577	1.200	-0.440	2.522	22.700
127	6.350	20.833	41.570	41.571	1.775	0.240	4.270	17.200
128	6.400	20.997	47.670	47.678	1.922	1.290	4.031	14.400
129	6.450	21.161	45.110	45.130	2.267	3.190	5.023	14.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	53.190	53.207	2.305	2.710	4.332	20.200
131	6.550	21.489	126.510	126.557	2.732	7.490	2.159	16.800
132	6.600	21.653	85.480	85.512	3.269	5.190	3.823	24.000
133	6.650	21.817	77.730	77.897	3.249	26.690	4.171	29.100
134	6.700	21.981	73.860	73.967	2.365	17.150	3.197	32.600
135	6.750	22.145	55.370	55.470	2.199	16.090	3.964	41.100
136	6.800	22.309	51.810	51.926	1.942	18.590	3.740	44.700
137	6.850	22.473	29.320	29.444	1.420	19.870	4.823	52.200
138	6.900	22.638	24.720	24.826	0.829	16.980	3.339	63.000
139	6.950	22.802	19.680	19.779	0.662	15.850	3.347	62.000
140	7.000	22.966	11.640	11.735	0.479	15.180	4.082	67.500
141	7.050	23.130	10.650	10.744	0.497	15.130	4.626	61.600
142	7.100	23.294	19.610	19.702	0.572	14.800	2.903	52.800
143	7.150	23.458	23.690	23.777	0.668	13.870	2.809	43.800
144	7.200	23.622	41.450	41.532	0.957	13.150	2.304	37.000
145	7.250	23.786	41.750	41.828	0.733	12.550	1.752	33.900
146	7.300	23.950	24.710	24.782	0.953	11.490	3.846	34.200
147	7.350	24.114	29.750	29.819	0.876	11.100	2.938	39.400
148	7.400	24.278	33.790	33.858	1.221	10.970	3.606	38.400
149	7.450	24.442	48.350	48.409	1.319	9.450	2.725	36.100
150	7.500	24.606	58.450	58.513	2.145	10.170	3.666	31.600
151	7.550	24.770	102.820	102.878	2.090	9.270	2.032	32.400
152	7.600	24.934	149.340	149.386	1.674	7.320	1.121	27.000
153	7.650	25.098	93.180	93.207	1.657	4.350	1.778	32.100
154	7.700	25.262	42.130	42.211	1.707	12.930	4.044	35.700
155	7.750	25.426	82.870	82.978	2.590	17.230	3.121	31.700
156	7.800	25.590	108.900	108.959	1.963	9.460	1.802	27.800
157	7.850	25.754	121.250	121.279	1.681	4.580	1.386	15.100
158	7.900	25.918	132.130	132.161	3.500	4.990	2.648	15.800
159	7.950	26.082	74.190	74.229	3.289	6.170	4.431	13.000
160	8.000	26.246	47.800	47.828	2.352	4.500	4.918	12.500
161	8.050	26.410	72.610	72.645	1.553	5.600	2.138	17.200
162	8.100	26.574	181.060	181.062	2.094	0.400	1.157	18.000
163	8.150	26.739	115.640	115.659	2.781	3.040	2.404	14.700
164	8.200	26.903	83.670	83.685	2.645	2.380	3.161	15.600
165	8.250	27.067	95.670	95.693	2.319	3.650	2.423	17.800
166	8.300	27.231	73.120	73.157	2.608	5.950	3.565	23.800
167	8.350	27.395	61.900	61.942	2.994	6.760	4.834	25.600
168	8.400	27.559	44.660	44.701	2.043	6.530	4.570	26.800
169	8.450	27.723	87.340	87.393	2.531	8.520	2.896	31.400
170	8.500	27.887	69.800	69.838	2.210	6.150	3.164	32.800
171	8.550	28.051	49.790	49.829	2.385	6.170	4.786	42.600
172	8.600	28.215	31.660	31.705	1.599	7.160	5.043	54.600
173	8.650	28.379	42.940	42.987	1.367	7.550	3.180	57.500
174	8.700	28.543	31.990	32.038	1.122	7.660	3.502	69.700
175	8.750	28.707	25.690	25.737	0.965	7.460	3.750	71.000
176	8.800	28.871	18.350	18.396	0.978	7.440	5.316	69.000
177	8.850	29.035	21.140	21.184	0.916	7.100	4.324	66.900
178	8.900	29.199	57.170	57.214	0.909	7.120	1.589	54.400
179	8.950	29.363	57.650	57.695	1.068	7.230	1.851	67.800
180	9.000	29.527	84.600	84.645	1.346	7.280	1.590	64.300
181	9.050	29.691	72.550	72.591	1.447	6.540	1.993	54.400
182	9.100	29.855	61.350	61.392	1.238	6.660	2.017	56.800
183	9.150	30.019	66.680	66.725	1.181	7.260	1.770	53.200
184	9.200	30.183	70.210	70.254	1.429	7.030	2.034	53.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	29.090	29.132	1.438	6.760	4.936	46.600
186	9.300	30.511	33.430	33.475	1.393	7.130	4.161	30.400
187	9.350	30.675	70.500	70.545	1.470	7.250	2.084	33.100
188	9.400	30.840	59.990	60.037	1.770	7.490	2.948	21.600
189	9.450	31.004	42.660	42.707	1.641	7.550	3.842	23.400
190	9.500	31.168	40.360	40.407	1.360	7.540	3.366	19.000
191	9.550	31.332	46.420	46.465	1.411	7.250	3.037	13.000
192	9.600	31.496	28.690	28.735	1.291	7.210	4.493	17.600
193	9.650	31.660	31.020	31.061	1.247	6.620	4.015	13.100
194	9.700	31.824	20.200	20.239	0.875	6.300	4.323	13.500
195	9.750	31.988	25.620	25.661	0.780	6.590	3.040	13.200
196	9.800	32.152	18.810	18.852	0.566	6.670	3.002	13.500
197	9.850	32.316	15.930	15.969	0.416	6.270	2.605	18.400
198	9.900	32.480	33.770	33.810	0.580	6.390	1.715	21.300
199	9.950	32.644	26.730	26.770	1.087	6.420	4.061	23.800
200	10.000	32.808	22.860	22.904	0.836	7.060	3.650	29.700
201	10.050	32.972	17.620	17.664	0.633	7.070	3.584	36.500
202	10.100	33.136	7.970	8.016	0.553	7.320	6.899	44.900
203	10.150	33.300	10.130	10.191	0.662	9.790	6.496	46.800
204	10.200	33.464	15.840	15.904	0.602	10.280	3.785	49.200
205	10.250	33.628	44.580	44.649	0.927	11.060	2.076	57.500
206	10.300	33.792	161.800	161.869	1.478	11.100	0.913	53.600
207	10.350	33.956	206.690	206.761	2.483	11.360	1.201	65.900
208	10.400	34.120	198.580	198.651	3.002	11.390	1.511	58.400
209	10.450	34.284	142.500	142.572	3.001	11.570	2.105	46.200
210	10.500	34.448	112.210	112.282	2.329	11.540	2.074	40.700
211	10.550	34.612	75.740	75.811	2.150	11.430	2.836	37.000
212	10.600	34.776	51.190	51.259	1.977	11.070	3.857	23.400
213	10.650	34.941	51.800	51.869	1.702	10.980	3.281	33.600
214	10.700	35.105	39.610	39.677	1.518	10.790	3.826	39.100
215	10.750	35.269	38.550	38.615	1.353	10.450	3.504	33.900
216	10.800	35.433	41.200	41.259	1.108	9.530	2.685	35.600
217	10.850	35.597	41.460	41.512	1.052	8.350	2.534	46.000
218	10.900	35.761	22.560	22.608	1.037	7.700	4.587	44.300
219	10.950	35.925	17.150	17.208	0.841	9.240	4.887	52.700
220	11.000	36.089	15.370	15.426	0.724	8.960	4.693	58.400
221	11.050	36.253	18.010	18.067	0.629	9.100	3.482	58.500
222	11.100	36.417	17.330	17.387	0.693	9.080	3.986	64.600
223	11.150	36.581	28.720	28.780	0.723	9.560	2.512	46.900
224	11.200	36.745	33.330	33.389	0.898	9.410	2.690	40.800
225	11.250	36.909	40.350	40.407	0.851	9.090	2.106	31.200
226	11.300	37.073	30.020	30.077	0.863	9.130	2.869	35.500
227	11.350	37.237	34.640	34.698	1.123	9.230	3.237	37.900
228	11.400	37.401	34.490	34.548	1.129	9.340	3.268	37.300
229	11.450	37.565	20.270	20.326	1.018	8.990	5.008	33.300
230	11.500	37.729	10.750	10.806	0.631	8.900	5.840	40.400
231	11.550	37.893	15.590	15.645	0.599	8.780	3.829	34.200
232	11.600	38.057	21.580	21.635	0.520	8.870	2.403	37.600
233	11.650	38.221	28.890	28.942	0.781	8.320	2.699	33.700
234	11.700	38.385	20.390	20.434	0.746	7.080	3.651	26.400
235	11.750	38.549	16.770	16.828	0.859	9.240	5.105	21.900
236	11.800	38.713	20.400	20.457	0.662	9.100	3.236	21.800
237	11.850	38.877	34.750	34.800	0.759	8.030	2.181	23.600
238	11.900	39.042	106.640	106.694	1.802	8.600	1.689	20.000
239	11.950	39.206	100.780	100.830	1.998	7.980	1.982	23.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	29.680	29.724	2.057	7.070	6.920	26.800
241	12.050	39.534	21.990	22.056	2.077	10.610	9.417	22.200
242	12.100	39.698	23.380	23.445	0.987	10.480	4.210	19.800
243	12.150	39.862	18.900	18.967	1.042	10.730	5.494	22.400
244	12.200	40.026	19.140	19.204	1.018	10.330	5.301	20.700
245	12.250	40.190	38.640	38.704	1.486	10.290	3.839	24.500
246	12.300	40.354	57.140	57.220	1.435	12.860	2.508	27.400
247	12.350	40.518	55.690	55.771	1.715	13.050	3.075	33.000
248	12.400	40.682	58.720	58.800	2.145	12.890	3.648	37.800
249	12.450	40.846	66.370	66.429	2.414	9.410	3.634	39.700
250	12.500	41.010	39.350	39.408	2.040	9.310	5.177	57.600
251	12.550	41.174	25.140	25.202	1.546	9.960	6.134	55.600
252	12.600	41.338	54.410	54.510	1.024	15.950	1.879	61.600
253	12.650	41.502	77.510	77.586	1.300	12.180	1.676	69.700
254	12.700	41.666	60.590	60.662	1.891	11.590	3.117	68.500
255	12.750	41.830	44.820	44.894	1.617	11.890	3.602	60.800
256	12.800	41.994	71.270	71.349	1.738	12.730	2.436	56.800
257	12.850	42.158	119.800	119.887	1.917	13.880	1.599	50.400
258	12.900	42.322	107.600	107.683	2.008	13.260	1.865	47.200
259	12.950	42.486	111.280	111.361	2.053	12.960	1.844	45.200
260	13.000	42.650	104.010	104.091	2.822	12.980	2.711	38.400
261	13.050	42.814	93.700	93.784	3.515	13.520	3.748	33.100
262	13.100	42.978	102.680	102.768	3.135	14.120	3.051	39.600
263	13.150	43.143	75.820	75.900	2.561	12.880	3.374	36.700
264	13.200	43.307	75.210	75.291	2.026	12.900	2.691	34.200
265	13.250	43.471	58.870	58.951	1.679	12.960	2.848	30.000
266	13.300	43.635	44.820	44.900	1.056	12.780	2.352	21.400
267	13.350	43.799	61.680	61.761	1.335	12.980	2.162	14.800
268	13.400	43.963	133.020	133.097	1.871	12.300	1.406	19.800
269	13.450	44.127	79.990	80.082	1.860	14.700	2.323	17.900
270	13.500	44.291	44.900	44.991	1.519	14.630	3.376	15.800
271	13.550	44.455	25.520	25.606	0.707	13.810	2.761	16.400
272	13.600	44.619	55.800	55.871	1.738	11.390	3.111	16.600
273	13.650	44.783	188.160	188.232	1.873	11.490	0.995	17.100
274	13.700	44.947	349.200	349.277	2.659	12.280	0.761	14.000
275	13.750	45.111	89.850	89.944	3.552	15.070	3.949	13.000
276	13.800	45.275	77.500	77.583	2.588	13.330	3.336	15.000
277	13.850	45.439	69.900	69.984	2.114	13.470	3.021	15.100
278	13.900	45.603	48.030	48.112	1.760	13.130	3.658	16.900
279	13.950	45.767	38.270	38.353	1.659	13.220	4.326	15.400
280	14.000	45.931	47.480	47.563	1.062	13.230	2.233	26.300
281	14.050	46.095	13.880	13.960	0.850	12.840	6.089	28.800
282	14.100	46.259	39.750	39.831	1.091	12.900	2.739	40.600
283	14.150	46.423	61.980	62.061	1.450	12.980	2.336	46.900
284	14.200	46.587	115.870	115.951	1.413	13.020	1.219	53.400
285	14.250	46.751	145.400	145.481	1.566	13.020	1.076	50.200
286	14.300	46.915	179.340	179.422	1.664	13.070	0.927	57.000
287	14.350	47.079	185.850	185.931	2.110	13.050	1.135	66.800
288	14.400	47.244	200.710	200.791	2.493	13.020	1.242	62.800
289	14.450	47.408	212.940	213.022	2.670	13.110	1.253	64.200
290	14.500	47.572	231.420	231.502	2.495	13.090	1.078	0.000
291	14.550	47.736	241.410	241.492	2.706	13.150	1.121	0.000
292	14.600	47.900	254.970	255.052	2.720	13.090	1.066	0.000
293	14.650	48.064	261.190	261.272	3.015	13.170	1.154	0.000
294	14.700	48.228	257.630	257.712	3.277	13.190	1.272	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	250.950	251.033	3.484	13.220	1.388	0.000
296	14.800	48.556	237.970	238.053	3.543	13.350	1.488	0.000
297	14.850	48.720	222.200	222.283	3.443	13.340	1.549	0.000
298	14.900	48.884	208.790	208.874	3.361	13.420	1.609	0.000
299	14.950	49.048	201.130	201.214	3.204	13.490	1.592	0.000
300	15.000	49.212	194.100	194.184	2.924	13.530	1.506	0.000
301	15.050	49.376	194.360	194.445	2.616	13.540	1.345	0.000
302	15.100	49.540	200.160	200.245	2.507	13.590	1.252	0.000
303	15.150	49.704	212.900	212.985	2.526	13.690	1.186	0.000
304	15.200	49.868	222.240	222.326	0.000	13.730	0.000	0.000
305	15.250	50.032	227.580	227.665	0.000	13.660	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221562
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-7-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-16-2013
CPT Time:	10:00
CPT File:	13-53075_GP7-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722153.381
Northing / Lat:	4294297.848
Elevation:	145.953
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.510	1.510	0.005	0.050	0.331	26.400
2	0.100	0.328	11.870	11.871	0.068	0.090	0.573	23.800
3	0.150	0.492	63.400	63.403	0.112	0.410	0.177	31.400
4	0.200	0.656	71.530	71.534	0.208	0.620	0.291	36.100
5	0.250	0.820	66.170	66.172	0.205	0.270	0.310	38.800
6	0.300	0.984	71.000	71.001	0.441	0.210	0.621	35.000
7	0.350	1.148	63.280	63.284	0.212	0.610	0.335	40.400
8	0.400	1.312	55.220	55.226	0.268	0.900	0.485	38.800
9	0.450	1.476	60.740	60.745	0.670	0.750	1.103	44.900
10	0.500	1.640	54.730	54.735	0.701	0.730	1.281	53.600
11	0.550	1.804	130.680	130.678	0.863	-0.400	0.660	61.700
12	0.600	1.968	173.270	173.281	0.697	1.750	0.402	59.300
13	0.650	2.133	160.260	160.264	0.930	0.590	0.580	64.200
14	0.700	2.297	114.240	114.240	1.554	-0.010	1.360	76.400
15	0.750	2.461	98.860	98.871	1.956	1.740	1.978	80.500
16	0.800	2.625	61.800	61.834	2.860	5.490	4.625	77.700
17	0.850	2.789	72.130	72.121	1.982	-1.390	2.748	88.000
18	0.900	2.953	108.180	108.177	2.172	-0.560	2.008	74.400
19	0.950	3.117	76.020	76.022	1.154	0.360	1.518	82.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	66.440	66.446	0.999	0.930	1.503	89.000
21	1.050	3.445	55.630	55.626	0.999	-0.690	1.796	72.200
22	1.100	3.609	42.330	42.334	0.992	0.610	2.343	87.700
23	1.150	3.773	36.780	36.786	0.899	1.030	2.444	79.600
24	1.200	3.937	31.650	31.661	0.919	1.830	2.903	66.800
25	1.250	4.101	26.720	26.706	0.847	-2.250	3.172	80.100
26	1.300	4.265	22.400	22.384	0.832	-2.500	3.717	89.300
27	1.350	4.429	17.720	17.713	0.742	-1.160	4.189	80.000
28	1.400	4.593	20.200	20.193	0.718	-1.200	3.556	99.100
29	1.450	4.757	19.060	19.056	0.653	-0.720	3.427	89.500
30	1.500	4.921	17.030	17.026	0.532	-0.720	3.125	74.200
31	1.550	5.085	17.880	17.879	0.399	-0.130	2.232	80.000
32	1.600	5.249	18.900	18.905	0.438	0.770	2.317	86.100
33	1.650	5.413	28.380	28.393	0.599	2.080	2.110	81.800
34	1.700	5.577	35.160	35.143	0.714	-2.750	2.032	98.600
35	1.750	5.741	31.200	31.184	0.776	-2.540	2.488	86.100
36	1.800	5.905	28.230	28.215	0.787	-2.340	2.789	86.700
37	1.850	6.069	23.160	23.146	0.692	-2.220	2.990	94.600
38	1.900	6.234	19.490	19.480	0.586	-1.600	3.008	87.000
39	1.950	6.398	18.670	18.659	0.556	-1.730	2.980	77.200
40	2.000	6.562	15.450	15.433	0.524	-2.700	3.395	77.900
41	2.050	6.726	12.690	12.673	0.520	-2.690	4.103	82.100
42	2.100	6.890	11.940	11.919	0.393	-3.360	3.297	53.100
43	2.150	7.054	16.880	16.853	0.278	-4.310	1.650	60.300
44	2.200	7.218	37.850	37.847	0.252	-0.520	0.666	44.700
45	2.250	7.382	62.140	62.144	0.443	0.570	0.713	54.200
46	2.300	7.546	19.970	19.984	0.477	2.240	2.387	45.000
47	2.350	7.710	7.980	7.989	0.337	1.370	4.219	60.200
48	2.400	7.874	3.980	3.981	0.197	0.180	4.948	55.500
49	2.450	8.038	3.290	3.295	0.119	0.730	3.612	71.900
50	2.500	8.202	14.900	14.919	0.158	3.120	1.059	75.700
51	2.550	8.366	16.490	16.507	0.278	2.740	1.684	80.600
52	2.600	8.530	22.790	22.743	0.604	-7.560	2.656	86.000
53	2.650	8.694	45.330	45.291	0.817	-6.170	1.804	93.000
54	2.700	8.858	60.900	60.848	1.253	-8.340	2.059	82.500
55	2.750	9.022	60.010	59.950	1.183	-9.610	1.973	79.700
56	2.800	9.186	41.840	41.780	0.831	-9.660	1.989	95.400
57	2.850	9.350	21.490	21.492	0.532	0.400	2.475	77.200
58	2.900	9.514	18.820	18.823	0.363	0.450	1.929	61.100
59	2.950	9.678	21.330	21.332	0.456	0.310	2.138	53.600
60	3.000	9.842	31.030	31.024	0.629	-0.980	2.027	54.500
61	3.050	10.006	21.380	21.402	0.672	3.470	3.140	41.900
62	3.100	10.170	18.730	18.734	0.659	0.590	3.518	35.000
63	3.150	10.335	18.130	18.138	0.583	1.260	3.214	34.200
64	3.200	10.499	12.850	12.849	0.689	-0.130	5.362	32.200
65	3.250	10.663	20.720	20.736	0.925	2.570	4.461	26.900
66	3.300	10.827	19.180	19.187	0.748	1.170	3.898	22.700
67	3.350	10.991	11.700	11.701	0.839	0.150	7.170	16.500
68	3.400	11.155	13.000	13.004	0.687	0.630	5.283	24.700
69	3.450	11.319	15.640	15.643	0.529	0.550	3.382	19.700
70	3.500	11.483	19.710	19.711	0.549	0.190	2.785	30.800
71	3.550	11.647	14.940	14.937	0.413	-0.510	2.765	20.000
72	3.600	11.811	8.020	8.020	0.257	0.050	3.204	23.600
73	3.650	11.975	7.000	7.003	0.117	0.480	1.671	19.500
74	3.700	12.139	11.660	11.660	0.170	0.030	1.458	33.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	24.510	24.513	0.146	0.410	0.596	41.300
76	3.800	12.467	15.620	15.638	0.233	2.870	1.490	45.900
77	3.850	12.631	14.670	14.694	0.166	3.870	1.130	47.900
78	3.900	12.795	16.160	16.170	0.144	1.660	0.891	45.800
79	3.950	12.959	12.590	12.609	0.079	3.040	0.627	49.000
80	4.000	13.123	11.610	11.626	0.155	2.620	1.333	33.100
81	4.050	13.287	18.920	18.937	0.303	2.790	1.600	26.100
82	4.100	13.451	26.330	26.368	1.120	6.100	4.248	22.800
83	4.150	13.615	80.610	80.628	1.437	2.850	1.782	16.700
84	4.200	13.779	40.990	40.993	1.789	0.410	4.364	11.800
85	4.250	13.943	31.800	31.817	1.404	2.650	4.413	10.900
86	4.300	14.107	26.050	26.047	1.148	-0.500	4.407	14.400
87	4.350	14.271	39.920	39.924	0.888	0.650	2.224	16.600
88	4.400	14.436	34.680	34.687	0.756	1.070	2.180	7.700
89	4.450	14.600	26.070	26.084	0.626	2.260	2.400	12.600
90	4.500	14.764	23.730	23.751	0.539	3.290	2.269	19.600
91	4.550	14.928	13.940	13.949	0.348	1.400	2.495	22.000
92	4.600	15.092	20.680	20.691	0.382	1.750	1.846	25.600
93	4.650	15.256	32.180	32.188	0.254	1.260	0.789	26.200
94	4.700	15.420	12.230	12.239	0.448	1.420	3.660	29.400
95	4.750	15.584	21.480	21.489	0.334	1.510	1.554	37.300
96	4.800	15.748	16.230	16.244	0.379	2.280	2.333	43.000
97	4.850	15.912	23.100	23.106	0.370	0.890	1.601	41.800
98	4.900	16.076	34.380	34.381	0.500	0.100	1.454	46.000
99	4.950	16.240	23.810	23.830	0.612	3.130	2.568	53.900
100	5.000	16.404	24.770	24.794	0.570	3.890	2.299	65.000
101	5.050	16.568	27.040	27.069	0.614	4.620	2.268	76.400
102	5.100	16.732	65.190	65.241	0.729	8.220	1.117	79.100
103	5.150	16.896	75.680	75.692	1.085	1.990	1.433	68.100
104	5.200	17.060	84.200	84.231	1.494	4.920	1.774	88.900
105	5.250	17.224	56.070	56.056	1.515	-2.180	2.703	78.500
106	5.300	17.388	46.920	46.902	1.212	-2.900	2.584	81.300
107	5.350	17.552	41.420	41.442	1.181	3.540	2.850	73.600
108	5.400	17.716	19.700	19.787	0.971	13.890	4.907	90.100
109	5.450	17.880	23.950	24.071	0.891	19.460	3.701	82.600
110	5.500	18.044	30.250	30.372	0.798	19.500	2.627	73.900
111	5.550	18.208	24.380	24.476	0.953	15.440	3.894	64.800
112	5.600	18.372	16.440	16.472	0.817	5.120	4.960	55.900
113	5.650	18.537	19.250	19.242	0.694	-1.280	3.607	48.700
114	5.700	18.701	34.410	34.402	0.641	-1.300	1.863	38.900
115	5.750	18.865	50.800	50.808	1.013	1.340	1.994	45.700
116	5.800	19.029	59.730	59.724	1.098	-1.010	1.838	39.500
117	5.850	19.193	22.770	22.783	0.881	2.140	3.867	55.600
118	5.900	19.357	21.930	21.945	0.721	2.340	3.286	54.800
119	5.950	19.521	22.980	22.987	0.290	1.050	1.262	58.100
120	6.000	19.685	39.500	39.499	0.247	-0.240	0.625	47.100
121	6.050	19.849	10.130	10.133	0.287	0.410	2.832	42.300
122	6.100	20.013	11.660	11.664	0.473	0.600	4.055	33.600
123	6.150	20.177	36.150	36.153	0.770	0.510	2.130	36.200
124	6.200	20.341	43.850	43.862	0.909	2.000	2.072	39.000
125	6.250	20.505	83.010	83.019	2.029	1.500	2.444	30.000
126	6.300	20.669	97.950	97.979	2.454	4.710	2.505	28.300
127	6.350	20.833	113.260	113.285	3.171	4.010	2.799	39.500
128	6.400	20.997	79.810	79.813	2.291	0.500	2.870	47.500
129	6.450	21.161	15.500	15.518	1.464	2.810	9.434	58.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	10.630	10.659	0.591	4.580	5.545	73.200
131	6.550	21.489	6.930	6.962	0.160	5.120	2.298	59.700
132	6.600	21.653	7.230	7.262	0.212	5.090	2.919	68.000
133	6.650	21.817	11.830	11.863	0.274	5.350	2.310	53.600
134	6.700	21.981	18.650	18.672	0.377	3.540	2.019	44.700
135	6.750	22.145	25.100	25.112	0.545	1.990	2.170	37.700
136	6.800	22.309	39.170	39.174	0.669	0.580	1.708	37.800
137	6.850	22.473	15.900	15.904	0.646	0.720	4.062	28.600
138	6.900	22.638	16.720	16.723	0.502	0.520	3.002	28.600
139	6.950	22.802	9.480	9.484	0.481	0.690	5.072	18.800
140	7.000	22.966	9.240	9.242	0.260	0.380	2.813	26.700
141	7.050	23.130	13.840	13.842	0.164	0.340	1.185	37.200
142	7.100	23.294	11.910	11.915	0.114	0.750	0.957	24.700
143	7.150	23.458	7.130	7.131	0.106	0.230	1.486	40.500
144	7.200	23.622	7.760	7.761	0.170	0.100	2.191	43.400
145	7.250	23.786	19.320	19.322	0.367	0.310	1.899	55.200
146	7.300	23.950	10.340	10.339	0.348	-0.220	3.366	40.100
147	7.350	24.114	18.230	18.247	0.421	2.750	2.307	63.700
148	7.400	24.278	56.810	56.829	0.807	2.970	1.420	59.100
149	7.450	24.442	82.600	82.573	1.372	-4.380	1.662	59.600
150	7.500	24.606	80.400	80.387	2.007	-2.160	2.497	68.600
151	7.550	24.770	66.320	66.304	1.300	-2.580	1.961	63.800
152	7.600	24.934	53.540	53.529	1.579	-1.820	2.950	49.600
153	7.650	25.098	39.890	39.861	1.031	-4.570	2.586	50.400
154	7.700	25.262	37.950	37.920	1.476	-4.850	3.892	57.000
155	7.750	25.426	44.700	44.669	1.202	-4.910	2.691	43.100
156	7.800	25.590	42.770	42.777	1.071	1.140	2.504	58.000
157	7.850	25.754	50.580	50.587	1.058	1.170	2.091	54.400
158	7.900	25.918	62.650	62.658	0.716	1.250	1.143	53.100
159	7.950	26.082	39.910	39.922	0.757	1.850	1.896	37.600
160	8.000	26.246	29.680	29.689	0.655	1.430	2.206	38.000
161	8.050	26.410	34.130	34.135	0.694	0.750	2.033	37.800
162	8.100	26.574	36.560	36.560	0.602	-0.040	1.647	14.500
163	8.150	26.739	64.410	64.411	0.453	0.140	0.703	20.200
164	8.200	26.903	64.060	64.061	0.535	0.160	0.835	25.900
165	8.250	27.067	83.200	83.199	0.635	-0.190	0.763	17.700
166	8.300	27.231	94.840	94.838	0.910	-0.270	0.960	27.100
167	8.350	27.395	42.550	42.552	0.991	0.350	2.329	27.800
168	8.400	27.559	21.840	21.844	0.825	0.620	3.777	20.800
169	8.450	27.723	22.830	22.838	0.639	1.350	2.798	29.300
170	8.500	27.887	18.430	18.435	0.759	0.870	4.117	30.400
171	8.550	28.051	28.010	28.016	0.833	1.040	2.973	36.000
172	8.600	28.215	23.260	23.253	1.100	-1.130	4.731	22.400
173	8.650	28.379	32.650	32.639	1.041	-1.740	3.189	28.800
174	8.700	28.543	32.120	32.117	1.114	-0.500	3.469	28.000
175	8.750	28.707	45.180	45.170	1.165	-1.620	2.579	33.100
176	8.800	28.871	39.020	39.031	1.265	1.790	3.241	42.000
177	8.850	29.035	35.560	35.580	1.310	3.280	3.682	42.600
178	8.900	29.199	38.340	38.350	0.957	1.600	2.495	34.200
179	8.950	29.363	49.530	49.636	0.928	16.900	1.870	41.300
180	9.000	29.527	66.960	66.997	0.724	5.970	1.081	33.100
181	9.050	29.691	80.010	80.035	0.953	4.050	1.191	38.000
182	9.100	29.855	52.900	52.922	1.132	3.480	2.139	32.700
183	9.150	30.019	32.750	32.773	1.067	3.740	3.256	33.000
184	9.200	30.183	15.290	15.301	0.913	1.810	5.967	22.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	33.260	33.267	1.191	1.170	3.580	27.100
186	9.300	30.511	48.260	48.282	1.519	3.600	3.146	45.300
187	9.350	30.675	35.780	35.795	1.636	2.350	4.571	32.400
188	9.400	30.840	33.790	33.812	1.611	3.470	4.765	37.100
189	9.450	31.004	46.030	46.055	1.600	3.950	3.474	44.100
190	9.500	31.168	67.320	67.344	1.940	3.870	2.881	40.800
191	9.550	31.332	173.770	173.783	1.782	2.050	1.025	39.800
192	9.600	31.496	177.910	177.912	1.850	0.370	1.040	52.400
193	9.650	31.660	76.960	76.964	2.066	0.690	2.684	47.400
194	9.700	31.824	51.630	51.659	2.221	4.650	4.299	59.100
195	9.750	31.988	61.670	61.702	1.623	5.200	2.630	47.600
196	9.800	32.152	91.930	91.917	1.369	-2.040	1.489	36.300
197	9.850	32.316	80.260	80.260	1.448	-0.020	1.804	33.400
198	9.900	32.480	74.830	74.830	1.776	-0.030	2.373	30.000
199	9.950	32.644	42.810	42.823	1.447	2.150	3.379	19.400
200	10.000	32.808	49.700	49.718	1.670	2.900	3.359	31.000
201	10.050	32.972	47.660	47.662	1.202	0.250	2.522	29.300
202	10.100	33.136	40.630	40.631	1.018	0.140	2.505	32.200
203	10.150	33.300	58.010	58.007	0.908	-0.410	1.565	32.900
204	10.200	33.464	32.490	32.486	0.903	-0.690	2.780	27.000
205	10.250	33.628	41.660	41.665	1.215	0.850	2.916	21.500
206	10.300	33.792	77.140	77.142	1.563	0.260	2.026	32.700
207	10.350	33.956	42.910	42.910	1.540	0.000	3.589	46.900
208	10.400	34.120	22.090	22.088	1.375	-0.370	6.225	45.900
209	10.450	34.284	39.190	39.198	1.401	1.320	3.574	67.600
210	10.500	34.448	48.540	48.571	1.229	4.930	2.530	62.600
211	10.550	34.612	54.860	54.899	1.186	6.220	2.160	67.400
212	10.600	34.776	53.260	53.279	1.169	3.090	2.194	61.500
213	10.650	34.941	40.860	40.871	1.174	1.700	2.872	41.600
214	10.700	35.105	48.430	48.446	2.047	2.620	4.225	27.900
215	10.750	35.269	100.230	100.250	2.579	3.170	2.573	25.600
216	10.800	35.433	97.640	97.657	2.852	2.700	2.920	20.200
217	10.850	35.597	61.430	61.452	2.214	3.470	3.603	14.100
218	10.900	35.761	69.550	69.579	2.215	4.580	3.183	10.900
219	10.950	35.925	153.020	153.052	2.121	5.160	1.386	8.400
220	11.000	36.089	76.310	76.337	2.916	4.300	3.820	16.800
221	11.050	36.253	64.300	64.331	2.496	4.900	3.880	15.500
222	11.100	36.417	63.130	63.164	2.137	5.500	3.383	28.900
223	11.150	36.581	81.640	81.666	1.761	4.240	2.156	30.900
224	11.200	36.745	52.610	52.637	1.564	4.370	2.971	34.100
225	11.250	36.909	35.040	35.071	1.374	4.910	3.918	46.100
226	11.300	37.073	49.530	49.562	1.067	5.060	2.153	38.700
227	11.350	37.237	65.870	65.899	0.763	4.610	1.158	37.400
228	11.400	37.401	65.370	65.389	1.206	3.050	1.844	34.200
229	11.450	37.565	86.050	86.070	0.987	3.170	1.147	35.500
230	11.500	37.729	52.960	52.982	1.366	3.520	2.578	36.100
231	11.550	37.893	42.500	42.523	1.745	3.730	4.104	18.400
232	11.600	38.057	44.930	44.960	1.280	4.860	2.847	17.800
233	11.650	38.221	45.550	45.583	1.241	5.210	2.723	16.000
234	11.700	38.385	58.810	58.838	1.480	4.420	2.515	16.000
235	11.750	38.549	37.660	37.695	1.799	5.640	4.772	17.200
236	11.800	38.713	33.090	33.136	1.475	7.370	4.451	19.300
237	11.850	38.877	31.360	31.415	1.287	8.740	4.097	21.600
238	11.900	39.042	41.270	41.327	2.122	9.090	5.135	27.000
239	11.950	39.206	104.570	104.633	2.622	10.170	2.506	40.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	67.210	67.280	2.926	11.180	4.349	54.500
241	12.050	39.534	56.690	56.754	2.024	10.310	3.566	122.100
242	12.100	39.698	34.380	34.441	1.348	9.760	3.914	168.800
243	12.150	39.862	29.820	29.878	0.836	9.310	2.798	180.100
244	12.200	40.026	25.160	25.213	0.778	8.460	3.086	209.300
245	12.250	40.190	25.330	25.375	0.740	7.130	2.916	157.800
246	12.300	40.354	23.780	23.817	0.664	5.940	2.788	101.100
247	12.350	40.518	29.610	29.667	0.608	9.110	2.049	83.700
248	12.400	40.682	24.950	25.010	0.520	9.610	2.079	83.500
249	12.450	40.846	23.830	23.894	0.510	10.250	2.134	93.700
250	12.500	41.010	18.660	18.727	0.545	10.800	2.910	87.500
251	12.550	41.174	20.420	20.489	0.519	11.060	2.533	84.500
252	12.600	41.338	21.860	21.929	0.646	11.100	2.946	80.600
253	12.650	41.502	25.590	25.658	0.766	10.930	2.985	78.000
254	12.700	41.666	21.300	21.369	0.807	11.040	3.777	83.500
255	12.750	41.830	14.590	14.658	0.759	10.930	5.178	86.400
256	12.800	41.994	13.670	13.739	0.538	11.020	3.916	74.900
257	12.850	42.158	12.520	12.589	0.466	11.070	3.702	83.200
258	12.900	42.322	12.260	12.328	0.336	10.860	2.726	75.800
259	12.950	42.486	21.730	21.793	0.309	10.020	1.418	76.500
260	13.000	42.650	20.500	20.559	0.317	9.410	1.542	81.600
261	13.050	42.814	22.530	22.591	0.483	9.730	2.138	70.700
262	13.100	42.978	22.680	22.742	0.473	10.010	2.080	76.200
263	13.150	43.143	56.640	56.706	0.525	10.630	0.926	73.300
264	13.200	43.307	82.140	82.201	0.967	9.710	1.176	64.800
265	13.250	43.471	79.540	79.598	1.501	9.350	1.886	45.400
266	13.300	43.635	50.160	50.223	1.900	10.070	3.783	36.900
267	13.350	43.799	54.450	54.513	2.098	10.040	3.849	29.900
268	13.400	43.963	45.640	45.711	2.129	11.410	4.657	20.700
269	13.450	44.127	41.090	41.162	1.816	11.510	4.412	20.000
270	13.500	44.291	28.910	28.968	1.325	9.290	4.574	12.500
271	13.550	44.455	16.330	16.376	1.004	7.410	6.131	12.900
272	13.600	44.619	34.440	34.482	0.882	6.740	2.558	14.900
273	13.650	44.783	42.220	42.251	0.946	4.900	2.239	10.400
274	13.700	44.947	40.230	40.261	1.030	4.950	2.558	8.000
275	13.750	45.111	46.230	46.256	1.597	4.170	3.453	16.500
276	13.800	45.275	67.560	67.585	1.744	4.060	2.580	16.600
277	13.850	45.439	51.180	51.209	2.491	4.580	4.864	19.500
278	13.900	45.603	51.660	51.688	2.672	4.410	5.170	21.600
279	13.950	45.767	38.090	38.126	2.584	5.760	6.778	20.300
280	14.000	45.931	108.690	108.728	2.363	6.160	2.173	15.000
281	14.050	46.095	57.400	57.435	2.445	5.580	4.257	15.500
282	14.100	46.259	55.260	55.296	2.213	5.720	4.002	13.700
283	14.150	46.423	53.140	53.177	1.498	5.890	2.817	10.600
284	14.200	46.587	18.810	18.843	0.806	5.250	4.278	12.900
285	14.250	46.751	7.980	8.005	0.361	4.040	4.510	12.000
286	14.300	46.915	6.720	6.744	0.474	3.880	7.028	10.000
287	14.350	47.079	18.290	18.314	1.014	3.840	5.537	13.900
288	14.400	47.244	33.260	33.289	1.171	4.620	3.518	14.700
289	14.450	47.408	37.490	37.522	1.493	5.170	3.979	12.700
290	14.500	47.572	44.660	44.692	1.628	5.050	3.643	17.800
291	14.550	47.736	43.700	43.734	1.961	5.410	4.484	19.200
292	14.600	47.900	61.860	61.899	2.290	6.210	3.700	17.400
293	14.650	48.064	73.840	73.881	2.643	6.610	3.577	20.300
294	14.700	48.228	58.830	58.872	2.100	6.780	3.567	29.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	78.440	78.479	1.609	6.190	2.050	31.700
296	14.800	48.556	74.360	74.398	1.062	6.010	1.427	40.200
297	14.850	48.720	62.440	62.476	1.061	5.840	1.698	43.900
298	14.900	48.884	57.220	57.256	1.205	5.800	2.105	36.900
299	14.950	49.048	45.240	45.277	1.377	5.850	3.041	34.400
300	15.000	49.212	22.220	22.258	1.349	6.150	6.061	39.200
301	15.050	49.376	19.990	20.027	1.007	5.850	5.028	46.200
302	15.100	49.540	31.000	31.037	1.010	5.950	3.254	48.000
303	15.150	49.704	30.160	30.198	1.200	6.080	3.974	47.500
304	15.200	49.868	27.220	27.261	1.236	6.600	4.534	51.500
305	15.250	50.032	57.980	58.026	1.172	7.370	2.020	42.700
306	15.300	50.196	136.710	136.756	1.371	7.390	1.003	49.400
307	15.350	50.360	187.510	187.555	1.717	7.280	0.915	53.700
308	15.400	50.524	244.790	244.836	2.155	7.380	0.880	53.400
309	15.450	50.688	279.040	279.087	2.774	7.490	0.994	58.000
310	15.500	50.852	307.200	307.247	3.475	7.550	1.131	53.000
311	15.550	51.016	334.550	334.598	3.766	7.700	1.126	58.000
312	15.600	51.180	326.250	326.299	4.231	7.770	1.297	61.300
313	15.650	51.345	321.460	321.512	4.140	8.370	1.288	56.300
314	15.700	51.509	330.210	330.263	4.028	8.470	1.220	64.700
315	15.750	51.673	303.010	303.063	4.009	8.540	1.323	61.500
316	15.800	51.837	284.070	284.124	3.865	8.650	1.360	53.100
317	15.850	52.001	283.440	283.495	3.567	8.760	1.258	0.000
318	15.900	52.165	287.530	287.586	3.515	8.900	1.222	0.000
319	15.950	52.329	294.620	294.677	3.529	9.060	1.198	0.000
320	16.000	52.493	289.780	289.837	3.500	9.060	1.208	0.000
321	16.050	52.657	292.840	292.897	3.489	9.140	1.191	0.000
322	16.100	52.821	297.550	297.608	3.420	9.330	1.149	0.000
323	16.150	52.985	306.740	306.799	3.490	9.410	1.138	0.000
324	16.200	53.149	303.730	303.790	3.647	9.570	1.201	0.000
325	16.250	53.313	293.530	293.590	3.790	9.660	1.291	0.000
326	16.300	53.477	271.840	271.901	3.774	9.820	1.388	0.000
327	16.350	53.641	253.650	253.711	3.639	9.750	1.434	0.000
328	16.400	53.805	249.440	249.501	3.402	9.750	1.364	0.000
329	16.450	53.969	249.890	249.951	3.249	9.820	1.300	0.000
330	16.500	54.133	251.990	252.051	3.241	9.770	1.286	0.000
331	16.550	54.297	247.060	247.121	0.000	9.790	0.000	0.000
332	16.600	54.461	227.070	227.131	0.000	9.820	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221564
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-8-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-15-2013
CPT Time:	15:02
CPT File:	13-53075_GP8-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722170.918
Northing / Lat:	4294306.315
Elevation:	146.106
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	28.470	28.471	0.000	0.240	0.000	30.300
2	0.100	0.328	57.120	57.121	0.067	0.090	0.117	34.700
3	0.150	0.492	68.290	68.291	0.279	0.180	0.409	44.300
4	0.200	0.656	59.830	59.835	0.326	0.860	0.545	53.300
5	0.250	0.820	54.490	54.495	0.396	0.740	0.727	64.000
6	0.300	0.984	57.800	57.804	0.525	0.630	0.908	71.900
7	0.350	1.148	21.890	21.909	0.621	3.040	2.834	75.400
8	0.400	1.312	17.520	17.534	0.627	2.170	3.576	88.100
9	0.450	1.476	18.270	18.275	0.542	0.740	2.966	96.100
10	0.500	1.640	27.500	27.508	0.822	1.210	2.988	91.800
11	0.550	1.804	51.970	51.974	0.864	0.670	1.662	105.600
12	0.600	1.968	51.780	51.785	1.323	0.780	2.555	87.100
13	0.650	2.133	61.870	61.871	1.270	0.170	2.053	98.900
14	0.700	2.297	73.330	73.332	1.244	0.390	1.696	98.500
15	0.750	2.461	85.950	85.954	1.613	0.680	1.877	90.000
16	0.800	2.625	69.280	69.300	1.641	3.260	2.368	94.500
17	0.850	2.789	88.970	88.977	2.017	1.090	2.267	90.600
18	0.900	2.953	125.440	125.458	2.079	2.920	1.657	86.100
19	0.950	3.117	135.120	135.135	2.113	2.330	1.564	74.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	115.090	115.105	2.492	2.360	2.165	74.900
21	1.050	3.445	94.660	94.671	2.926	1.760	3.091	77.800
22	1.100	3.609	102.780	102.803	2.639	3.730	2.567	76.900
23	1.150	3.773	86.050	86.079	2.680	4.590	3.113	71.500
24	1.200	3.937	79.040	79.049	1.987	1.430	2.514	68.100
25	1.250	4.101	55.790	55.790	1.900	-0.010	3.406	74.600
26	1.300	4.265	48.990	48.980	1.762	-1.540	3.597	66.300
27	1.350	4.429	25.770	25.779	1.390	1.510	5.392	68.000
28	1.400	4.593	27.270	27.307	1.343	5.960	4.918	62.300
29	1.450	4.757	57.870	57.899	1.370	4.720	2.366	70.900
30	1.500	4.921	51.940	51.907	1.789	-5.300	3.447	67.200
31	1.550	5.085	41.980	41.945	1.701	-5.540	4.055	80.700
32	1.600	5.249	30.460	30.432	1.168	-4.540	3.838	69.700
33	1.650	5.413	21.450	21.414	0.828	-5.790	3.867	90.400
34	1.700	5.577	19.750	19.714	0.723	-5.780	3.667	86.700
35	1.750	5.741	22.450	22.415	0.571	-5.610	2.547	85.800
36	1.800	5.905	28.860	28.850	0.576	-1.670	1.997	81.900
37	1.850	6.069	27.800	27.801	0.602	0.170	2.165	89.300
38	1.900	6.234	22.830	22.827	0.593	-0.540	2.598	76.200
39	1.950	6.398	21.120	21.117	0.547	-0.460	2.590	91.800
40	2.000	6.562	23.560	23.557	0.493	-0.410	2.093	80.000
41	2.050	6.726	21.010	21.014	0.525	0.700	2.498	85.000
42	2.100	6.890	25.710	25.714	0.549	0.640	2.135	87.800
43	2.150	7.054	38.760	38.763	0.537	0.480	1.385	84.900
44	2.200	7.218	53.500	53.499	0.566	-0.190	1.058	92.200
45	2.250	7.382	54.550	54.541	0.519	-1.440	0.952	101.100
46	2.300	7.546	47.570	47.555	0.666	-2.460	1.400	73.300
47	2.350	7.710	34.410	34.381	0.730	-4.610	2.123	81.000
48	2.400	7.874	27.110	27.081	0.824	-4.720	3.043	71.800
49	2.450	8.038	44.360	44.337	0.692	-3.620	1.561	91.100
50	2.500	8.202	59.480	59.454	0.798	-4.140	1.342	83.600
51	2.550	8.366	69.290	69.254	1.109	-5.780	1.601	81.400
52	2.600	8.530	65.780	65.746	1.418	-5.490	2.157	84.200
53	2.650	8.694	62.270	62.235	1.528	-5.670	2.455	72.400
54	2.700	8.858	55.170	55.115	1.374	-8.860	2.493	70.700
55	2.750	9.022	35.390	35.326	1.105	-10.290	3.128	59.500
56	2.800	9.186	16.280	16.215	0.592	-10.460	3.651	44.700
57	2.850	9.350	34.930	34.918	0.507	-1.940	1.452	41.100
58	2.900	9.514	42.390	42.389	0.511	-0.170	1.206	34.200
59	2.950	9.678	52.130	52.130	0.584	0.050	1.120	28.000
60	3.000	9.842	85.530	85.541	0.913	1.710	1.067	28.400
61	3.050	10.006	105.670	105.680	1.530	1.670	1.448	28.900
62	3.100	10.170	118.490	118.504	2.091	2.200	1.765	26.700
63	3.150	10.335	109.010	109.019	1.913	1.480	1.755	29.500
64	3.200	10.499	88.630	88.636	1.767	1.040	1.994	25.800
65	3.250	10.663	81.360	81.370	1.817	1.570	2.233	24.700
66	3.300	10.827	59.320	59.327	1.432	1.100	2.414	30.500
67	3.350	10.991	25.600	25.598	1.054	-0.360	4.118	29.200
68	3.400	11.155	53.970	53.972	0.914	0.250	1.693	28.600
69	3.450	11.319	30.050	30.052	0.513	0.390	1.707	25.500
70	3.500	11.483	47.350	47.354	0.878	0.660	1.854	27.200
71	3.550	11.647	70.610	70.614	0.804	0.700	1.139	34.700
72	3.600	11.811	31.120	31.118	0.921	-0.270	2.960	32.400
73	3.650	11.975	25.000	24.998	0.647	-0.310	2.588	25.600
74	3.700	12.139	22.420	22.435	0.589	2.450	2.625	41.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	20.330	20.342	0.524	1.970	2.576	54.500
76	3.800	12.467	15.000	15.013	0.476	2.060	3.171	56.300
77	3.850	12.631	12.050	12.060	0.374	1.580	3.101	54.900
78	3.900	12.795	12.820	12.799	0.297	-3.330	2.320	69.700
79	3.950	12.959	9.360	9.323	0.304	-5.890	3.261	72.600
80	4.000	13.123	10.050	10.072	0.439	3.460	4.359	82.300
81	4.050	13.287	24.300	24.304	1.097	0.680	4.514	94.800
82	4.100	13.451	46.530	46.520	1.165	-1.660	2.504	76.000
83	4.150	13.615	15.380	15.380	1.052	0.070	6.840	89.000
84	4.200	13.779	16.010	16.020	0.736	1.660	4.594	108.600
85	4.250	13.943	14.180	14.192	0.226	1.860	1.592	103.300
86	4.300	14.107	9.620	9.624	0.381	0.690	3.959	84.800
87	4.350	14.271	28.660	28.671	0.860	1.750	3.000	96.100
88	4.400	14.436	49.370	49.382	1.218	1.860	2.467	93.000
89	4.450	14.600	62.620	62.633	1.156	2.030	1.846	95.600
90	4.500	14.764	59.940	59.922	1.077	-2.850	1.797	99.600
91	4.550	14.928	42.540	42.486	0.962	-8.650	2.264	104.400
92	4.600	15.092	28.430	28.366	0.942	-10.310	3.321	76.000
93	4.650	15.256	18.710	18.634	0.743	-12.120	3.987	96.100
94	4.700	15.420	16.000	15.924	0.495	-12.170	3.109	73.000
95	4.750	15.584	15.120	15.136	0.399	2.600	2.636	65.100
96	4.800	15.748	15.020	15.034	0.477	2.200	3.173	61.800
97	4.850	15.912	11.410	11.424	0.570	2.300	4.989	66.500
98	4.900	16.076	29.750	29.769	0.710	3.020	2.385	83.200
99	4.950	16.240	65.790	65.794	0.872	0.580	1.325	92.500
100	5.000	16.404	57.140	57.132	1.000	-1.210	1.750	81.500
101	5.050	16.568	51.480	51.471	1.253	-1.430	2.434	71.000
102	5.100	16.732	53.700	53.670	1.286	-4.820	2.396	73.000
103	5.150	16.896	20.070	20.027	1.182	-6.850	5.902	50.600
104	5.200	17.060	51.240	51.213	1.390	-4.390	2.714	48.500
105	5.250	17.224	33.880	33.866	1.024	-2.250	3.024	33.900
106	5.300	17.388	50.050	50.050	1.223	-0.080	2.444	29.500
107	5.350	17.552	68.400	68.398	1.315	-0.270	1.923	26.900
108	5.400	17.716	59.150	59.149	1.534	-0.140	2.593	30.400
109	5.450	17.880	33.150	33.147	1.226	-0.480	3.699	29.500
110	5.500	18.044	20.460	20.458	0.747	-0.280	3.651	36.800
111	5.550	18.208	27.890	27.889	0.661	-0.110	2.370	37.000
112	5.600	18.372	26.110	26.111	0.631	0.150	2.417	32.000
113	5.650	18.537	15.550	15.554	0.603	0.700	3.877	49.400
114	5.700	18.701	19.810	19.815	0.645	0.850	3.255	46.200
115	5.750	18.865	23.390	23.403	0.480	2.120	2.051	48.600
116	5.800	19.029	11.900	11.898	0.493	-0.280	4.143	55.500
117	5.850	19.193	6.530	6.532	0.253	0.350	3.873	55.700
118	5.900	19.357	16.090	16.093	0.166	0.550	1.031	62.300
119	5.950	19.521	19.720	19.724	0.134	0.690	0.679	72.600
120	6.000	19.685	18.610	18.613	0.125	0.490	0.672	62.400
121	6.050	19.849	23.200	23.202	0.171	0.400	0.737	74.700
122	6.100	20.013	28.180	28.185	0.249	0.860	0.883	75.800
123	6.150	20.177	19.160	19.166	0.047	0.910	0.245	58.800
124	6.200	20.341	18.020	18.025	0.142	0.840	0.788	67.200
125	6.250	20.505	11.450	11.451	0.116	0.230	1.013	79.400
126	6.300	20.669	18.050	18.051	0.089	0.230	0.493	68.200
127	6.350	20.833	23.410	23.412	0.130	0.320	0.555	60.900
128	6.400	20.997	32.680	32.682	0.237	0.280	0.725	52.100
129	6.450	21.161	48.350	48.352	0.389	0.370	0.805	55.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	59.130	59.141	0.654	1.840	1.106	57.500
131	6.550	21.489	58.730	58.748	0.900	2.870	1.532	53.700
132	6.600	21.653	82.080	82.110	1.220	4.830	1.486	56.500
133	6.650	21.817	100.160	100.132	1.881	-4.420	1.879	41.300
134	6.700	21.981	179.980	179.963	1.305	-2.670	0.725	56.900
135	6.750	22.145	178.860	178.832	1.745	-4.440	0.976	53.300
136	6.800	22.309	150.980	150.981	1.357	0.110	0.899	60.900
137	6.850	22.473	138.640	138.642	0.682	0.270	0.492	69.700
138	6.900	22.638	227.580	227.583	1.175	0.500	0.516	68.900
139	6.950	22.802	255.400	255.404	1.951	0.680	0.764	62.800
140	7.000	22.966	143.000	143.002	3.094	0.280	2.164	65.200
141	7.050	23.130	102.740	102.764	3.054	3.860	2.972	50.800
142	7.100	23.294	72.250	72.286	3.046	5.750	4.214	55.000
143	7.150	23.458	70.800	70.840	2.333	6.470	3.293	56.300
144	7.200	23.622	73.210	73.248	1.956	6.130	2.670	54.500
145	7.250	23.786	61.270	61.304	1.900	5.470	3.099	36.300
146	7.300	23.950	48.890	48.922	1.579	5.050	3.228	53.100
147	7.350	24.114	54.870	54.902	1.740	5.170	3.169	64.100
148	7.400	24.278	62.510	62.536	1.942	4.150	3.105	73.200
149	7.450	24.442	57.050	57.084	1.568	5.520	2.747	64.100
150	7.500	24.606	70.880	70.918	1.486	6.150	2.095	62.100
151	7.550	24.770	74.190	74.216	1.590	4.100	2.142	47.100
152	7.600	24.934	65.860	65.890	1.537	4.780	2.333	41.600
153	7.650	25.098	58.830	58.860	1.376	4.840	2.338	44.100
154	7.700	25.262	20.070	20.094	1.180	3.830	5.872	41.600
155	7.750	25.426	27.550	27.569	1.360	3.080	4.933	40.200
156	7.800	25.590	49.700	49.723	1.559	3.630	3.135	49.400
157	7.850	25.754	36.720	36.748	1.713	4.550	4.661	38.300
158	7.900	25.918	30.990	31.010	1.422	3.180	4.586	57.500
159	7.950	26.082	24.920	24.924	1.052	0.600	4.221	45.600
160	8.000	26.246	29.870	29.873	1.290	0.420	4.318	33.800
161	8.050	26.410	69.160	69.162	1.297	0.380	1.875	41.800
162	8.100	26.574	62.310	62.303	1.839	-1.130	2.952	36.400
163	8.150	26.739	64.380	64.374	2.337	-0.930	3.630	32.600
164	8.200	26.903	76.640	76.642	2.415	0.300	3.151	28.500
165	8.250	27.067	80.990	80.997	2.146	1.150	2.649	30.200
166	8.300	27.231	75.720	75.732	2.820	1.940	3.724	30.000
167	8.350	27.395	150.700	150.720	2.137	3.140	1.418	50.300
168	8.400	27.559	223.620	223.666	2.427	7.290	1.085	47.000
169	8.450	27.723	126.480	126.576	3.094	15.380	2.444	54.300
170	8.500	27.887	80.720	80.796	2.109	12.140	2.610	74.600
171	8.550	28.051	46.330	46.347	1.278	2.790	2.757	84.600
172	8.600	28.215	40.860	40.871	0.920	1.760	2.251	124.100
173	8.650	28.379	26.650	26.668	0.605	2.940	2.269	141.700
174	8.700	28.543	23.240	23.260	0.382	3.240	1.642	192.700
175	8.750	28.707	32.350	32.369	0.525	3.030	1.622	229.200
176	8.800	28.871	21.460	21.472	0.701	1.910	3.265	309.800
177	8.850	29.035	23.900	23.916	0.803	2.640	3.358	330.900
178	8.900	29.199	27.170	27.190	0.876	3.130	3.222	309.300
179	8.950	29.363	42.130	42.145	0.947	2.340	2.247	224.300
180	9.000	29.527	42.650	42.655	1.095	0.810	2.567	155.600
181	9.050	29.691	63.500	63.519	1.631	3.110	2.568	96.200
182	9.100	29.855	37.980	37.996	1.272	2.590	3.348	80.000
183	9.150	30.019	31.860	31.874	1.192	2.250	3.740	61.100
184	9.200	30.183	29.840	29.855	0.724	2.460	2.425	60.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	27.720	27.741	0.805	3.400	2.902	38.000
186	9.300	30.511	31.160	31.172	0.774	1.920	2.483	29.300
187	9.350	30.675	22.120	22.132	0.906	1.870	4.094	25.400
188	9.400	30.840	26.720	26.736	1.151	2.590	4.305	20.500
189	9.450	31.004	23.270	23.280	0.874	1.570	3.754	25.200
190	9.500	31.168	37.250	37.254	1.259	0.710	3.379	20.900
191	9.550	31.332	42.080	42.078	1.101	-0.400	2.617	18.500
192	9.600	31.496	10.290	10.305	0.929	2.370	9.015	22.300
193	9.650	31.660	17.970	17.974	0.522	0.680	2.904	20.800
194	9.700	31.824	24.530	24.530	0.550	0.080	2.242	31.900
195	9.750	31.988	33.590	33.594	0.701	0.580	2.087	36.100
196	9.800	32.152	28.910	28.919	0.864	1.520	2.988	40.200
197	9.850	32.316	22.750	22.760	0.596	1.660	2.619	49.400
198	9.900	32.480	48.620	48.612	0.757	-1.210	1.557	60.500
199	9.950	32.644	38.450	38.439	0.882	-1.780	2.295	62.300
200	10.000	32.808	25.320	25.313	0.860	-1.170	3.398	65.700
201	10.050	32.972	24.020	24.019	0.763	-0.220	3.177	55.400
202	10.100	33.136	19.490	19.486	0.480	-0.590	2.463	42.200
203	10.150	33.300	14.150	14.153	0.674	0.410	4.762	32.300
204	10.200	33.464	62.460	62.463	0.875	0.430	1.401	24.800
205	10.250	33.628	71.030	71.036	1.558	0.970	2.193	26.600
206	10.300	33.792	41.430	41.436	1.416	0.890	3.417	17.900
207	10.350	33.956	30.870	30.876	1.609	0.960	5.211	14.500
208	10.400	34.120	33.350	33.355	1.335	0.780	4.002	20.200
209	10.450	34.284	84.610	84.620	1.545	1.640	1.826	21.900
210	10.500	34.448	50.160	50.170	1.828	1.640	3.644	26.900
211	10.550	34.612	37.000	37.017	1.151	2.650	3.109	31.300
212	10.600	34.776	58.300	58.313	1.047	2.130	1.795	26.200
213	10.650	34.941	34.300	34.310	1.323	1.680	3.856	24.600
214	10.700	35.105	43.030	43.049	1.504	2.990	3.494	28.700
215	10.750	35.269	83.340	83.360	2.239	3.210	2.686	30.200
216	10.800	35.433	54.740	54.758	2.498	2.860	4.562	37.100
217	10.850	35.597	66.090	66.103	2.130	2.080	3.222	42.800
218	10.900	35.761	35.990	36.003	1.804	2.100	5.011	42.000
219	10.950	35.925	32.550	32.574	1.034	3.900	3.174	43.300
220	11.000	36.089	51.800	51.828	0.637	4.460	1.229	33.300
221	11.050	36.253	49.220	49.246	0.779	4.110	1.582	23.000
222	11.100	36.417	18.600	18.622	0.683	3.560	3.668	26.100
223	11.150	36.581	20.520	20.536	0.943	2.540	4.592	17.000
224	11.200	36.745	51.100	51.120	1.928	3.170	3.772	11.000
225	11.250	36.909	116.750	116.774	3.846	3.770	3.294	16.400
226	11.300	37.073	194.780	194.822	6.326	6.780	3.247	14.000
227	11.350	37.237	250.710	250.761	8.324	8.220	3.319	14.000
228	11.400	37.401	219.160	219.228	9.081	10.900	4.142	14.300
229	11.450	37.565	233.140	233.233	10.226	14.940	4.384	12.800
230	11.500	37.729	224.170	224.279	9.755	17.410	4.349	16.600
231	11.550	37.893	249.060	249.174	9.419	18.190	3.780	13.900
232	11.600	38.057	306.580	306.727	9.528	23.510	3.106	24.700
233	11.650	38.221	186.040	186.202	7.758	26.030	4.166	25.600
234	11.700	38.385	86.510	86.671	4.875	25.780	5.625	44.200
235	11.750	38.549	66.280	66.440	2.375	25.570	3.575	51.000
236	11.800	38.713	33.620	33.779	1.742	25.460	5.157	47.500
237	11.850	38.877	58.030	58.188	1.268	25.300	2.179	61.400
238	11.900	39.042	68.410	68.567	1.308	25.150	1.908	41.600
239	11.950	39.206	58.350	58.506	1.373	24.930	2.347	54.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	40.560	40.715	1.589	24.800	3.903	45.900
241	12.050	39.534	47.350	47.504	1.220	24.620	2.568	61.100
242	12.100	39.698	78.540	78.694	1.664	24.670	2.115	70.800
243	12.150	39.862	70.230	70.384	1.444	24.590	2.052	72.700
244	12.200	40.026	30.970	31.122	1.196	24.400	3.843	88.300
245	12.250	40.190	34.980	35.132	0.921	24.310	2.622	70.100
246	12.300	40.354	29.390	29.542	0.740	24.280	2.505	77.900
247	12.350	40.518	27.130	27.281	0.636	24.180	2.331	90.000
248	12.400	40.682	23.730	23.880	0.592	24.020	2.479	86.500
249	12.450	40.846	29.850	30.000	0.693	23.960	2.310	71.100
250	12.500	41.010	26.690	26.839	0.935	23.870	3.484	61.500
251	12.550	41.174	39.270	39.411	1.475	22.540	3.743	48.600
252	12.600	41.338	71.970	72.110	2.181	22.420	3.025	32.600
253	12.650	41.502	99.810	99.949	2.623	22.220	2.624	31.800
254	12.700	41.666	62.740	62.877	2.414	21.990	3.839	27.400
255	12.750	41.830	58.010	58.146	1.876	21.790	3.226	24.300
256	12.800	41.994	63.530	63.667	2.172	21.870	3.412	22.600
257	12.850	42.158	67.560	67.696	2.068	21.830	3.055	26.800
258	12.900	42.322	56.280	56.415	2.170	21.670	3.846	22.100
259	12.950	42.486	49.700	49.836	1.951	21.710	3.915	29.000
260	13.000	42.650	33.630	33.764	1.984	21.410	5.876	30.800
261	13.050	42.814	78.050	78.184	1.717	21.390	2.196	43.600
262	13.100	42.978	52.460	52.592	1.369	21.140	2.603	67.200
263	13.150	43.143	40.050	40.182	1.316	21.190	3.275	62.400
264	13.200	43.307	44.030	44.162	1.026	21.120	2.323	63.500
265	13.250	43.471	22.390	22.521	0.782	20.920	3.472	72.400
266	13.300	43.635	20.100	20.230	0.674	20.820	3.332	71.900
267	13.350	43.799	19.890	20.020	0.500	20.800	2.498	67.000
268	13.400	43.963	14.960	15.089	0.377	20.730	2.498	70.800
269	13.450	44.127	17.710	17.839	0.211	20.680	1.183	49.900
270	13.500	44.291	13.070	13.199	0.435	20.600	3.296	44.900
271	13.550	44.455	17.370	17.493	0.436	19.780	2.492	33.700
272	13.600	44.619	55.640	55.763	0.521	19.780	0.934	24.800
273	13.650	44.783	32.720	32.842	0.744	19.590	2.265	29.700
274	13.700	44.947	21.750	21.870	1.092	19.230	4.993	21.300
275	13.750	45.111	35.730	35.850	1.421	19.160	3.964	21.800
276	13.800	45.275	61.930	62.050	2.011	19.210	3.241	15.600
277	13.850	45.439	100.650	100.770	2.290	19.180	2.273	23.800
278	13.900	45.603	76.540	76.660	3.037	19.160	3.962	17.000
279	13.950	45.767	41.170	41.288	2.333	18.970	5.650	22.400
280	14.000	45.931	66.630	66.747	2.643	18.740	3.960	23.200
281	14.050	46.095	193.860	193.979	2.962	19.090	1.527	30.300
282	14.100	46.259	128.280	128.399	3.280	19.040	2.555	32.400
283	14.150	46.423	68.000	68.118	2.969	18.880	4.359	35.800
284	14.200	46.587	55.470	55.588	2.508	18.960	4.512	39.900
285	14.250	46.751	41.240	41.358	2.003	18.850	4.843	34.300
286	14.300	46.915	37.130	37.247	2.126	18.760	5.708	52.000
287	14.350	47.079	39.540	39.658	1.981	18.920	4.995	46.600
288	14.400	47.244	58.490	58.608	2.135	18.830	3.643	44.100
289	14.450	47.408	49.700	49.819	1.870	19.000	3.754	59.300
290	14.500	47.572	51.890	52.008	1.428	18.970	2.746	50.300
291	14.550	47.736	44.680	44.796	0.913	18.550	2.038	45.800
292	14.600	47.900	40.830	40.946	0.463	18.530	1.131	54.500
293	14.650	48.064	40.010	40.125	0.230	18.460	0.573	54.000
294	14.700	48.228	34.240	34.355	0.201	18.370	0.585	59.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	34.790	34.867	0.218	12.380	0.625	53.000
296	14.800	48.556	50.370	50.446	0.303	12.250	0.601	49.000
297	14.850	48.720	75.060	75.137	0.394	12.340	0.524	64.600
298	14.900	48.884	89.770	89.847	0.464	12.400	0.516	57.200
299	14.950	49.048	98.100	98.177	0.574	12.410	0.585	61.200
300	15.000	49.212	108.580	108.657	0.643	12.360	0.592	53.200
301	15.050	49.376	122.200	122.277	0.713	12.410	0.583	48.100
302	15.100	49.540	136.320	136.398	0.745	12.420	0.546	55.700
303	15.150	49.704	151.840	151.918	0.875	12.430	0.576	54.400
304	15.200	49.868	160.020	160.098	0.961	12.430	0.600	48.400
305	15.250	50.032	182.910	182.988	1.102	12.500	0.602	46.700
306	15.300	50.196	188.280	188.358	1.230	12.530	0.653	53.100
307	15.350	50.360	193.560	193.638	1.287	12.440	0.665	56.400
308	15.400	50.524	200.150	200.229	1.324	12.590	0.661	69.000
309	15.450	50.688	200.830	200.908	1.282	12.510	0.638	61.300
310	15.500	50.852	189.940	190.019	1.314	12.610	0.692	58.400
311	15.550	51.016	187.420	187.501	1.352	12.920	0.721	52.000
312	15.600	51.180	183.100	183.180	1.250	12.890	0.682	58.200
313	15.650	51.345	179.870	179.950	1.189	12.880	0.661	53.800
314	15.700	51.509	174.910	174.991	1.241	12.930	0.709	60.600
315	15.750	51.673	183.440	183.521	1.303	12.950	0.710	64.800
316	15.800	51.837	227.640	227.721	1.369	13.000	0.601	57.200
317	15.850	52.001	242.970	243.051	1.530	13.050	0.629	64.100
318	15.900	52.165	240.060	240.142	1.576	13.160	0.656	62.600
319	15.950	52.329	223.670	223.752	1.560	13.210	0.697	61.600
320	16.000	52.493	205.240	205.323	1.457	13.260	0.710	57.500
321	16.050	52.657	184.770	184.853	1.335	13.340	0.722	59.900
322	16.100	52.821	167.810	167.893	1.333	13.370	0.794	65.200
323	16.150	52.985	171.210	171.294	1.386	13.380	0.809	76.100
324	16.200	53.149	226.690	226.774	1.614	13.420	0.712	59.900
325	16.250	53.313	265.250	265.335	1.694	13.640	0.638	59.900
326	16.300	53.477	271.540	271.625	1.644	13.670	0.605	56.800
327	16.350	53.641	259.410	259.496	1.527	13.750	0.588	55.400
328	16.400	53.805	233.230	233.316	1.578	13.790	0.676	52.800
329	16.450	53.969	202.080	202.166	1.541	13.850	0.762	56.500
330	16.500	54.133	178.990	179.077	1.301	13.860	0.727	56.700
331	16.550	54.297	173.820	173.907	1.263	13.940	0.726	50.600
332	16.600	54.461	180.500	180.590	1.303	14.490	0.722	57.600
333	16.650	54.625	192.520	192.611	1.394	14.500	0.724	0.000
334	16.700	54.789	204.290	204.381	1.535	14.520	0.751	0.000
335	16.750	54.953	202.640	202.731	1.655	14.500	0.816	0.000
336	16.800	55.117	201.830	201.921	1.727	14.620	0.855	0.000
337	16.850	55.281	200.010	200.101	1.759	14.630	0.879	0.000
338	16.900	55.446	199.900	199.991	1.815	14.650	0.908	0.000
339	16.950	55.610	201.730	201.822	1.914	14.730	0.948	0.000
340	17.000	55.774	195.280	195.372	1.929	14.780	0.987	0.000
341	17.050	55.938	184.130	184.223	1.896	14.860	1.029	0.000
342	17.100	56.102	185.230	185.323	1.850	14.850	0.998	0.000
343	17.150	56.266	174.610	174.702	1.787	14.810	1.023	0.000
344	17.200	56.430	168.870	168.963	1.690	14.830	1.000	0.000
345	17.250	56.594	179.400	179.493	1.603	14.900	0.893	0.000
346	17.300	56.758	184.890	184.983	1.651	14.910	0.893	0.000
347	17.350	56.922	193.730	193.823	0.000	14.960	0.000	0.000
348	17.400	57.086	196.600	196.694	0.000	14.980	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221566
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-9-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-15-2013
CPT Time:	09:09
CPT File:	13-53075_GP9-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722167.177
Northing / Lat:	4294340.611
Elevation:	143.229
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.020	0.021	0.000	0.120	0.000	32.200
2	0.100	0.328	10.320	10.323	0.038	0.520	0.368	39.500
3	0.150	0.492	30.880	30.883	0.425	0.410	1.376	55.200
4	0.200	0.656	56.140	56.142	0.484	0.290	0.862	61.200
5	0.250	0.820	39.850	39.859	0.538	1.460	1.350	68.700
6	0.300	0.984	20.360	20.375	0.581	2.410	2.852	82.300
7	0.350	1.148	26.040	26.047	0.383	1.060	1.470	101.700
8	0.400	1.312	43.160	43.172	0.476	1.990	1.103	92.100
9	0.450	1.476	66.870	66.878	0.612	1.330	0.915	101.100
10	0.500	1.640	86.980	86.986	0.663	1.020	0.762	112.400
11	0.550	1.804	104.220	104.227	0.808	1.110	0.775	90.000
12	0.600	1.968	115.640	115.647	0.951	1.100	0.822	102.200
13	0.650	2.133	106.950	106.956	0.953	0.990	0.891	94.500
14	0.700	2.297	83.110	83.113	0.890	0.440	1.071	71.800
15	0.750	2.461	49.440	49.442	0.807	0.320	1.632	82.700
16	0.800	2.625	38.490	38.489	0.557	-0.220	1.447	80.300
17	0.850	2.789	28.260	28.258	0.234	-0.370	0.828	53.800
18	0.900	2.953	33.660	33.659	0.381	-0.190	1.132	44.500
19	0.950	3.117	39.500	39.504	0.490	0.680	1.240	34.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	32.540	32.549	0.576	1.500	1.770	34.000
21	1.050	3.445	14.840	14.851	0.513	1.840	3.454	22.400
22	1.100	3.609	15.910	15.912	0.378	0.390	2.376	24.900
23	1.150	3.773	14.870	14.884	0.390	2.200	2.620	17.900
24	1.200	3.937	14.310	14.327	0.322	2.800	2.247	17.500
25	1.250	4.101	11.060	11.071	0.264	1.750	2.385	14.600
26	1.300	4.265	11.020	11.030	0.140	1.530	1.269	16.600
27	1.350	4.429	9.980	9.994	0.084	2.280	0.840	13.300
28	1.400	4.593	6.210	6.219	0.094	1.400	1.512	13.800
29	1.450	4.757	11.870	11.879	0.084	1.380	0.707	16.000
30	1.500	4.921	16.780	16.789	0.154	1.390	0.917	19.200
31	1.550	5.085	25.380	25.397	0.153	2.790	0.602	17.500
32	1.600	5.249	36.260	36.282	0.405	3.530	1.116	21.900
33	1.650	5.413	42.120	42.141	0.412	3.310	0.978	28.100
34	1.700	5.577	38.910	38.920	0.448	1.620	1.151	46.200
35	1.750	5.741	14.600	14.602	0.493	0.280	3.376	64.700
36	1.800	5.905	18.100	18.105	0.473	0.860	2.612	84.000
37	1.850	6.069	14.670	14.625	0.421	-7.220	2.879	107.900
38	1.900	6.234	11.500	11.441	0.368	-9.520	3.217	138.000
39	1.950	6.398	10.270	10.212	0.365	-9.260	3.574	126.800
40	2.000	6.562	13.460	13.407	0.426	-8.440	3.177	113.800
41	2.050	6.726	13.340	13.274	0.316	-10.560	2.381	82.100
42	2.100	6.890	22.530	22.537	0.264	1.110	1.171	49.600
43	2.150	7.054	47.970	47.972	0.426	0.300	0.888	47.100
44	2.200	7.218	37.720	37.728	0.741	1.290	1.964	39.800
45	2.250	7.382	45.570	45.575	0.826	0.790	1.812	31.800
46	2.300	7.546	34.490	34.485	0.768	-0.830	2.227	28.100
47	2.350	7.710	60.220	60.222	0.324	0.400	0.538	23.500
48	2.400	7.874	89.300	89.308	0.173	1.330	0.194	18.600
49	2.450	8.038	104.480	104.511	0.322	4.910	0.308	17.200
50	2.500	8.202	119.070	119.101	0.671	4.940	0.563	16.800
51	2.550	8.366	21.000	21.003	0.625	0.500	2.976	39.000
52	2.600	8.530	12.450	12.462	0.833	1.910	6.684	30.300
53	2.650	8.694	14.180	14.184	0.571	0.590	4.026	17.100
54	2.700	8.858	7.920	7.927	0.611	1.160	7.708	22.200
55	2.750	9.022	9.910	9.913	0.288	0.490	2.905	19.800
56	2.800	9.186	8.030	8.034	0.277	0.680	3.448	18.000
57	2.850	9.350	4.940	4.956	0.198	2.540	3.995	22.700
58	2.900	9.514	2.350	2.360	0.159	1.550	6.738	46.500
59	2.950	9.678	5.960	5.959	0.122	-0.090	2.047	55.900
60	3.000	9.842	15.710	15.717	0.231	1.080	1.470	30.100
61	3.050	10.006	17.650	17.648	0.327	-0.340	1.853	29.300
62	3.100	10.170	15.030	15.031	0.375	0.110	2.495	28.000
63	3.150	10.335	17.970	17.972	0.358	0.270	1.992	27.900
64	3.200	10.499	12.530	12.534	0.416	0.630	3.319	28.000
65	3.250	10.663	7.240	7.241	1.338	0.210	18.477	30.600
66	3.300	10.827	6.430	6.430	3.676	0.000	57.170	32.900
67	3.350	10.991	145.890	145.902	4.549	1.860	3.118	31.800
68	3.400	11.155	55.450	55.451	3.535	0.200	6.375	26.500
69	3.450	11.319	16.730	16.733	2.999	0.530	17.922	39.200
70	3.500	11.483	36.830	36.833	0.683	0.480	1.854	30.400
71	3.550	11.647	28.240	28.241	0.457	0.170	1.618	32.400
72	3.600	11.811	38.630	38.631	0.584	0.110	1.512	30.500
73	3.650	11.975	80.090	80.092	2.247	0.390	2.806	32.800
74	3.700	12.139	152.940	152.940	3.814	-0.040	2.494	33.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	77.800	77.802	2.679	0.270	3.443	43.300
76	3.800	12.467	73.940	73.946	0.342	0.980	0.462	50.500
77	3.850	12.631	45.970	45.970	0.563	-0.060	1.225	54.100
78	3.900	12.795	22.750	22.751	0.502	0.240	2.206	65.500
79	3.950	12.959	19.790	19.820	0.440	4.770	2.220	72.000
80	4.000	13.123	23.560	23.613	0.447	8.500	1.893	77.600
81	4.050	13.287	23.570	23.626	1.334	8.990	5.646	90.300
82	4.100	13.451	62.730	62.667	1.018	-10.080	1.624	80.300
83	4.150	13.615	47.030	46.961	1.670	-11.060	3.556	70.500
84	4.200	13.779	39.480	39.414	1.602	-10.620	4.065	73.200
85	4.250	13.943	52.530	52.467	1.542	-10.140	2.939	75.800
86	4.300	14.107	61.540	61.456	1.502	-13.420	2.444	80.300
87	4.350	14.271	43.640	43.547	1.488	-14.940	3.417	82.300
88	4.400	14.436	40.670	40.584	1.621	-13.740	3.994	88.800
89	4.450	14.600	42.720	42.636	0.975	-13.520	2.287	81.900
90	4.500	14.764	36.750	36.666	1.134	-13.420	3.093	90.200
91	4.550	14.928	29.800	29.719	1.288	-12.930	4.334	83.900
92	4.600	15.092	25.440	25.360	1.224	-12.830	4.827	69.400
93	4.650	15.256	43.920	43.842	1.243	-12.530	2.835	97.500
94	4.700	15.420	35.150	35.071	1.444	-12.710	4.117	81.900
95	4.750	15.584	46.960	46.872	1.277	-14.100	2.724	77.500
96	4.800	15.748	24.210	24.114	0.974	-15.360	4.039	78.200
97	4.850	15.912	14.160	14.067	0.604	-14.920	4.294	68.400
98	4.900	16.076	17.570	17.478	1.228	-14.790	7.026	73.600
99	4.950	16.240	36.340	36.249	1.279	-14.540	3.528	63.800
100	5.000	16.404	60.010	59.921	1.544	-14.280	2.577	59.800
101	5.050	16.568	77.640	77.576	1.919	-10.300	2.474	44.700
102	5.100	16.732	71.950	71.944	1.667	-0.910	2.317	37.800
103	5.150	16.896	88.830	88.846	1.366	2.500	1.537	25.400
104	5.200	17.060	49.350	49.391	1.522	6.530	3.082	23.900
105	5.250	17.224	45.190	45.227	1.059	5.930	2.342	20.200
106	5.300	17.388	54.100	54.123	1.524	3.640	2.816	13.200
107	5.350	17.552	50.090	50.113	1.266	3.620	2.526	15.000
108	5.400	17.716	42.610	42.629	1.376	3.060	3.228	17.100
109	5.450	17.880	78.460	78.480	1.783	3.250	2.272	9.500
110	5.500	18.044	124.120	124.132	1.674	2.000	1.349	15.800
111	5.550	18.208	18.510	18.543	1.373	5.300	7.404	15.300
112	5.600	18.372	5.440	5.469	0.509	4.600	9.307	18.000
113	5.650	18.537	21.230	21.248	0.517	2.850	2.433	24.600
114	5.700	18.701	47.150	47.163	0.618	2.020	1.310	29.900
115	5.750	18.865	44.040	44.052	0.830	2.000	1.884	33.200
116	5.800	19.029	37.020	37.033	0.863	2.060	2.330	42.100
117	5.850	19.193	20.850	20.863	0.552	2.100	2.646	39.000
118	5.900	19.357	29.370	29.383	0.540	2.060	1.838	38.800
119	5.950	19.521	25.960	25.972	0.383	1.920	1.475	36.200
120	6.000	19.685	17.660	17.670	0.294	1.600	1.664	40.900
121	6.050	19.849	29.430	29.437	0.115	1.170	0.391	37.700
122	6.100	20.013	31.670	31.678	0.278	1.270	0.878	31.000
123	6.150	20.177	26.660	26.662	0.346	0.350	1.298	28.200
124	6.200	20.341	33.760	33.765	0.610	0.770	1.807	28.900
125	6.250	20.505	22.280	22.286	0.833	0.990	3.738	28.800
126	6.300	20.669	34.550	34.566	1.316	2.560	3.807	41.600
127	6.350	20.833	50.310	50.325	1.499	2.430	2.979	62.700
128	6.400	20.997	32.310	32.325	1.356	2.340	4.195	58.700
129	6.450	21.161	16.610	16.641	0.775	4.950	4.657	66.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	12.770	12.806	0.481	5.750	3.756	68.900
131	6.550	21.489	12.400	12.441	0.359	6.490	2.886	68.000
132	6.600	21.653	8.700	8.729	0.297	4.720	3.402	55.100
133	6.650	21.817	7.890	7.918	0.193	4.440	2.438	56.900
134	6.700	21.981	8.030	8.050	0.197	3.250	2.447	48.800
135	6.750	22.145	17.300	17.317	0.504	2.800	2.910	38.600
136	6.800	22.309	22.940	22.956	0.542	2.580	2.361	31.600
137	6.850	22.473	21.190	21.210	0.802	3.150	3.781	24.900
138	6.900	22.638	34.280	34.298	0.857	2.850	2.499	23.900
139	6.950	22.802	34.540	34.559	0.815	3.120	2.358	20.400
140	7.000	22.966	42.800	42.818	1.027	2.830	2.399	13.200
141	7.050	23.130	38.850	38.868	1.405	2.830	3.615	13.200
142	7.100	23.294	65.050	65.069	1.391	3.030	2.138	12.600
143	7.150	23.458	123.790	123.810	2.599	3.280	2.099	17.300
144	7.200	23.622	118.820	118.834	2.659	2.300	2.238	14.000
145	7.250	23.786	67.500	67.511	2.676	1.770	3.964	14.100
146	7.300	23.950	56.020	56.037	2.119	2.730	3.781	15.700
147	7.350	24.114	35.900	35.918	1.155	2.920	3.216	14.100
148	7.400	24.278	25.940	25.955	0.675	2.450	2.601	23.700
149	7.450	24.442	51.230	51.242	0.681	2.000	1.329	18.400
150	7.500	24.606	41.290	41.308	0.759	2.960	1.837	29.300
151	7.550	24.770	50.590	50.608	0.823	2.920	1.626	24.000
152	7.600	24.934	25.180	25.193	0.832	2.050	3.303	37.800
153	7.650	25.098	31.290	31.302	0.850	1.980	2.715	33.500
154	7.700	25.262	19.210	19.159	0.821	-8.200	4.285	36.200
155	7.750	25.426	19.640	19.592	0.952	-7.750	4.859	24.100
156	7.800	25.590	42.780	42.735	1.491	-7.130	3.489	14.900
157	7.850	25.754	82.930	82.888	2.117	-6.790	2.554	17.700
158	7.900	25.918	84.670	84.630	2.483	-6.370	2.934	12.300
159	7.950	26.082	112.140	112.102	2.700	-6.100	2.409	10.400
160	8.000	26.246	57.060	57.056	2.414	-0.700	4.231	15.100
161	8.050	26.410	45.300	45.296	2.041	-0.630	4.506	14.900
162	8.100	26.574	59.970	59.967	1.833	-0.420	3.057	13.600
163	8.150	26.739	47.320	47.317	1.922	-0.490	4.062	15.800
164	8.200	26.903	40.640	40.638	1.567	-0.390	3.856	10.500
165	8.250	27.067	34.090	34.088	1.479	-0.300	4.339	12.800
166	8.300	27.231	42.260	42.259	1.432	-0.150	3.389	14.000
167	8.350	27.395	29.980	29.978	1.366	-0.290	4.557	13.400
168	8.400	27.559	29.350	29.348	1.148	-0.310	3.912	17.900
169	8.450	27.723	26.070	26.067	0.992	-0.450	3.806	9.600
170	8.500	27.887	20.420	20.417	1.886	-0.420	9.237	15.900
171	8.550	28.051	35.560	35.555	1.357	-0.740	3.817	16.400
172	8.600	28.215	67.890	67.886	0.669	-0.610	0.985	20.400
173	8.650	28.379	91.330	91.330	1.255	0.080	1.374	26.700
174	8.700	28.543	62.030	62.034	1.281	0.630	2.065	35.900
175	8.750	28.707	35.470	35.472	1.184	0.350	3.338	30.600
176	8.800	28.871	40.650	40.655	1.167	0.770	2.871	31.500
177	8.850	29.035	46.180	46.185	1.089	0.870	2.358	37.400
178	8.900	29.199	58.220	58.223	1.411	0.490	2.423	48.600
179	8.950	29.363	31.710	31.722	1.427	1.860	4.499	55.300
180	9.000	29.527	26.280	26.292	1.132	1.910	4.306	75.500
181	9.050	29.691	21.300	21.312	1.148	1.930	5.387	85.000
182	9.100	29.855	20.900	20.912	1.060	1.990	5.069	89.200
183	9.150	30.019	20.240	20.254	1.176	2.170	5.806	67.400
184	9.200	30.183	25.650	25.666	0.964	2.580	3.756	64.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	113.270	113.287	1.360	2.760	1.200	48.600
186	9.300	30.511	174.170	174.190	2.331	3.190	1.338	49.000
187	9.350	30.675	98.600	98.618	2.855	2.840	2.895	43.800
188	9.400	30.840	53.890	53.908	2.033	2.820	3.771	46.400
189	9.450	31.004	54.750	54.768	1.197	2.810	2.186	69.800
190	9.500	31.168	71.710	71.727	0.786	2.730	1.096	60.300
191	9.550	31.332	70.580	70.597	0.631	2.720	0.894	70.700
192	9.600	31.496	63.570	63.587	0.580	2.710	0.912	58.900
193	9.650	31.660	55.580	55.597	0.546	2.680	0.982	62.200
194	9.700	31.824	46.280	46.297	0.491	2.670	1.061	51.200
195	9.750	31.988	34.360	34.377	0.384	2.670	1.117	48.200
196	9.800	32.152	28.810	28.826	0.458	2.590	1.589	36.800
197	9.850	32.316	39.960	39.977	0.428	2.790	1.071	38.400
198	9.900	32.480	75.110	75.129	0.398	3.040	0.530	36.100
199	9.950	32.644	92.100	92.114	0.775	2.260	0.841	41.000
200	10.000	32.808	88.050	88.063	1.191	2.140	1.352	48.700
201	10.050	32.972	44.290	44.299	1.603	1.390	3.619	42.200
202	10.100	33.136	59.580	59.592	1.755	1.900	2.945	38.200
203	10.150	33.300	51.090	51.102	1.754	1.950	3.432	25.400
204	10.200	33.464	44.510	44.523	1.842	2.130	4.137	26.600
205	10.250	33.628	58.070	58.083	2.027	2.140	3.490	27.400
206	10.300	33.792	80.580	80.592	2.114	1.990	2.623	20.400
207	10.350	33.956	52.620	52.634	2.011	2.190	3.821	30.500
208	10.400	34.120	33.490	33.504	1.615	2.270	4.820	20.000
209	10.450	34.284	9.720	9.733	0.752	2.080	7.726	38.500
210	10.500	34.448	25.610	25.622	0.679	1.950	2.650	43.400
211	10.550	34.612	34.180	34.193	0.603	2.120	1.764	47.000
212	10.600	34.776	38.470	38.482	0.548	1.910	1.424	48.700
213	10.650	34.941	45.640	45.651	0.367	1.830	0.804	53.900
214	10.700	35.105	49.210	49.221	0.211	1.820	0.429	54.000
215	10.750	35.269	45.480	45.491	0.254	1.790	0.558	53.600
216	10.800	35.433	37.520	37.531	0.505	1.730	1.346	50.100
217	10.850	35.597	34.380	34.395	0.572	2.340	1.663	52.500
218	10.900	35.761	35.670	35.686	0.715	2.550	2.004	49.500
219	10.950	35.925	38.100	38.116	0.738	2.590	1.936	62.200
220	11.000	36.089	28.130	28.146	0.707	2.530	2.512	57.200
221	11.050	36.253	29.270	29.286	0.859	2.580	2.933	46.500
222	11.100	36.417	38.380	38.392	1.226	1.870	3.193	32.100
223	11.150	36.581	41.220	41.236	1.241	2.500	3.010	34.500
224	11.200	36.745	17.920	17.937	1.020	2.650	5.687	39.500
225	11.250	36.909	17.460	17.477	0.576	2.720	3.296	46.600
226	11.300	37.073	29.460	29.477	0.433	2.790	1.469	57.700
227	11.350	37.237	36.820	36.836	0.609	2.530	1.653	65.900
228	11.400	37.401	27.890	27.905	0.687	2.430	2.462	68.600
229	11.450	37.565	28.540	28.554	0.673	2.180	2.357	61.000
230	11.500	37.729	24.710	24.725	0.446	2.360	1.804	49.000
231	11.550	37.893	28.180	28.194	0.415	2.220	1.472	44.400
232	11.600	38.057	24.510	24.524	0.533	2.290	2.173	45.200
233	11.650	38.221	43.500	43.515	0.654	2.330	1.503	46.300
234	11.700	38.385	18.090	18.106	0.989	2.520	5.462	64.900
235	11.750	38.549	45.520	45.534	1.110	2.320	2.438	62.100
236	11.800	38.713	32.410	32.426	1.006	2.520	3.102	79.700
237	11.850	38.877	39.460	39.476	0.909	2.550	2.303	67.900
238	11.900	39.042	54.220	54.236	0.638	2.560	1.176	76.300
239	11.950	39.206	69.750	69.766	0.621	2.500	0.890	70.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	80.680	80.696	0.658	2.580	0.815	67.300
241	12.050	39.534	88.340	88.356	0.900	2.510	1.019	70.300
242	12.100	39.698	86.250	86.266	1.343	2.550	1.557	73.700
243	12.150	39.862	65.920	65.936	1.514	2.570	2.296	72.600
244	12.200	40.026	67.080	67.096	1.400	2.610	2.087	65.800
245	12.250	40.190	85.540	85.556	1.165	2.630	1.362	61.900
246	12.300	40.354	86.360	86.376	1.050	2.610	1.216	57.000
247	12.350	40.518	88.080	88.097	0.959	2.650	1.089	58.500
248	12.400	40.682	92.600	92.616	0.923	2.550	0.997	52.100
249	12.450	40.846	97.300	97.316	0.900	2.640	0.925	60.900
250	12.500	41.010	106.680	106.696	0.905	2.610	0.848	56.300
251	12.550	41.174	133.620	133.637	0.958	2.690	0.717	50.600
252	12.600	41.338	168.410	168.427	1.082	2.710	0.642	57.700
253	12.650	41.502	206.260	206.277	1.515	2.750	0.734	56.000
254	12.700	41.666	203.490	203.507	1.964	2.760	0.965	54.400
255	12.750	41.830	198.300	198.318	2.116	2.840	1.067	52.000
256	12.800	41.994	198.660	198.678	2.092	2.870	1.053	50.600
257	12.850	42.158	196.920	196.938	2.071	2.830	1.052	51.800
258	12.900	42.322	209.830	209.849	2.048	3.120	0.976	52.300
259	12.950	42.486	234.860	234.879	2.097	3.120	0.893	45.700
260	13.000	42.650	258.880	258.900	2.347	3.200	0.907	51.400
261	13.050	42.814	273.560	273.580	2.671	3.190	0.976	49.200
262	13.100	42.978	275.280	275.300	2.829	3.210	1.028	49.900
263	13.150	43.143	284.780	284.800	2.999	3.260	1.053	51.000
264	13.200	43.307	298.060	298.081	3.252	3.380	1.091	66.800
265	13.250	43.471	289.480	289.502	3.442	3.510	1.189	59.700
266	13.300	43.635	326.190	326.212	3.600	3.560	1.104	56.700
267	13.350	43.799	360.670	360.695	3.616	4.050	1.003	73.800
268	13.400	43.963	356.040	356.066	3.994	4.200	1.122	72.100
269	13.450	44.127	353.510	353.537	4.271	4.290	1.208	80.800
270	13.500	44.291	311.390	311.417	3.765	4.330	1.209	70.600
271	13.550	44.455	275.340	275.368	3.393	4.430	1.232	78.600
272	13.600	44.619	258.680	258.710	3.001	4.790	1.160	58.200
273	13.650	44.783	250.190	250.220	2.791	4.780	1.115	50.800
274	13.700	44.947	245.040	245.070	2.660	4.750	1.085	54.000
275	13.750	45.111	216.680	216.709	2.566	4.700	1.184	0.000
276	13.800	45.275	182.120	182.142	2.362	3.540	1.297	0.000
277	13.850	45.439	176.110	176.132	2.002	3.540	1.137	0.000
278	13.900	45.603	190.440	190.463	1.862	3.620	0.978	0.000
279	13.950	45.767	227.490	227.512	2.101	3.550	0.923	0.000
280	14.000	45.931	260.650	260.672	2.433	3.600	0.933	0.000
281	14.050	46.095	244.750	244.773	2.686	3.610	1.097	0.000
282	14.100	46.259	225.590	225.613	2.606	3.700	1.155	0.000
283	14.150	46.423	217.770	217.793	2.367	3.750	1.087	0.000
284	14.200	46.587	227.120	227.143	2.203	3.610	0.970	0.000
285	14.250	46.751	252.270	252.293	2.324	3.750	0.921	0.000
286	14.300	46.915	274.840	274.864	2.598	3.890	0.945	0.000
287	14.350	47.079	289.530	289.554	2.912	3.790	1.006	0.000
288	14.400	47.244	319.120	319.145	3.300	3.940	1.034	0.000
289	14.450	47.408	337.310	337.335	0.000	4.000	0.000	0.000
290	14.500	47.572	356.270	356.296	0.000	4.120	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221568
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-9-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	15:13
CPT File:	13-53075_GP9-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722174.414
Northing / Lat:	4294324.511
Elevation:	143.790
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.170	2.169	0.008	-0.220	0.369	28.800
2	0.100	0.328	39.590	39.591	0.089	0.210	0.225	34.600
3	0.150	0.492	58.270	58.270	0.124	0.080	0.213	43.000
4	0.200	0.656	62.270	62.272	0.206	0.370	0.331	48.800
5	0.250	0.820	60.030	60.037	0.444	1.060	0.740	56.300
6	0.300	0.984	73.770	73.773	0.728	0.490	0.987	65.700
7	0.350	1.148	49.710	49.719	0.966	1.430	1.943	64.800
8	0.400	1.312	36.900	36.926	1.078	4.110	2.919	78.700
9	0.450	1.476	55.540	55.565	0.771	4.040	1.388	72.700
10	0.500	1.640	54.620	54.636	0.597	2.600	1.093	84.700
11	0.550	1.804	46.790	46.793	0.579	0.490	1.237	69.600
12	0.600	1.968	42.120	42.123	0.449	0.410	1.066	75.500
13	0.650	2.133	37.650	37.651	0.436	0.130	1.158	75.100
14	0.700	2.297	31.550	31.550	0.341	0.050	1.081	74.400
15	0.750	2.461	23.420	23.419	0.255	-0.110	1.089	68.000
16	0.800	2.625	15.620	15.618	0.176	-0.300	1.127	66.400
17	0.850	2.789	10.010	10.009	0.156	-0.110	1.559	67.500
18	0.900	2.953	7.620	7.618	0.167	-0.290	2.192	58.500
19	0.950	3.117	9.290	9.289	0.154	-0.110	1.658	48.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	14.320	14.320	0.192	-0.060	1.341	34.600
21	1.050	3.445	3.750	3.749	0.173	-0.190	4.615	33.900
22	1.100	3.609	1.160	1.158	0.125	-0.280	10.792	27.500
23	1.150	3.773	11.480	11.480	0.085	0.030	0.740	24.800
24	1.200	3.937	20.250	20.249	0.168	-0.160	0.830	33.900
25	1.250	4.101	13.720	13.720	0.132	0.070	0.962	27.400
26	1.300	4.265	1.970	1.973	0.180	0.470	9.123	22.900
27	1.350	4.429	4.720	4.721	0.084	0.090	1.779	21.200
28	1.400	4.593	28.780	28.784	0.294	0.610	1.021	15.100
29	1.450	4.757	33.350	33.353	0.388	0.540	1.163	13.300
30	1.500	4.921	32.660	32.663	0.663	0.540	2.030	11.800
31	1.550	5.085	23.100	23.101	0.710	0.090	3.074	10.600
32	1.600	5.249	20.630	20.633	0.910	0.530	4.410	10.100
33	1.650	5.413	22.470	22.474	0.748	0.640	3.328	7.300
34	1.700	5.577	5.790	5.782	0.593	-1.270	10.256	13.800
35	1.750	5.741	8.550	8.551	0.465	0.230	5.438	10.600
36	1.800	5.905	9.370	9.377	0.366	1.090	3.903	12.000
37	1.850	6.069	11.640	11.646	0.457	0.960	3.924	12.200
38	1.900	6.234	10.310	10.324	0.366	2.270	3.545	16.400
39	1.950	6.398	9.280	9.348	0.500	10.880	5.349	13.200
40	2.000	6.562	17.180	17.214	0.551	5.520	3.201	14.200
41	2.050	6.726	13.640	13.652	0.451	1.870	3.304	14.300
42	2.100	6.890	29.430	29.434	0.455	0.640	1.546	23.300
43	2.150	7.054	37.880	37.884	0.628	0.720	1.658	33.100
44	2.200	7.218	30.580	30.578	0.606	-0.380	1.982	38.500
45	2.250	7.382	20.930	20.958	0.510	4.500	2.433	59.100
46	2.300	7.546	13.230	13.353	0.431	19.630	3.228	72.300
47	2.350	7.710	14.200	14.334	0.357	21.420	2.491	86.700
48	2.400	7.874	16.300	16.339	0.332	6.310	2.032	85.100
49	2.450	8.038	14.550	14.538	0.409	-2.000	2.813	82.600
50	2.500	8.202	11.360	11.320	0.517	-6.370	4.567	76.000
51	2.550	8.366	12.380	12.337	0.466	-6.860	3.777	70.800
52	2.600	8.530	27.300	27.290	0.612	-1.660	2.243	52.700
53	2.650	8.694	42.420	42.412	0.789	-1.290	1.860	62.300
54	2.700	8.858	28.430	28.424	1.030	-0.980	3.624	56.500
55	2.750	9.022	28.080	28.077	0.870	-0.550	3.099	43.800
56	2.800	9.186	33.590	33.592	0.982	0.250	2.923	33.500
57	2.850	9.350	14.890	14.889	0.706	-0.230	4.742	27.800
58	2.900	9.514	13.070	13.076	0.685	1.010	5.238	26.900
59	2.950	9.678	18.600	18.604	0.659	0.590	3.542	22.400
60	3.000	9.842	16.560	16.562	0.703	0.300	4.245	19.700
61	3.050	10.006	6.090	6.109	0.938	2.990	15.355	23.000
62	3.100	10.170	27.170	27.196	1.234	4.210	4.537	19.700
63	3.150	10.335	51.890	51.914	0.955	3.770	1.840	23.300
64	3.200	10.499	32.920	32.944	0.766	3.770	2.325	27.400
65	3.250	10.663	13.170	13.185	0.957	2.350	7.258	21.200
66	3.300	10.827	28.960	28.971	0.380	1.790	1.312	22.900
67	3.350	10.991	8.270	8.288	0.452	2.910	5.454	23.700
68	3.400	11.155	7.080	7.084	0.385	0.630	5.435	22.800
69	3.450	11.319	7.800	7.802	0.144	0.270	1.846	21.900
70	3.500	11.483	5.700	5.704	0.164	0.720	2.875	22.300
71	3.550	11.647	17.760	17.761	0.170	0.130	0.957	23.500
72	3.600	11.811	35.940	35.942	0.264	0.260	0.735	23.200
73	3.650	11.975	31.150	31.161	0.437	1.790	1.402	28.600
74	3.700	12.139	10.990	11.002	0.396	1.990	3.599	35.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	9.230	9.232	0.275	0.380	2.979	34.000
76	3.800	12.467	59.310	59.312	0.189	0.300	0.319	46.300
77	3.850	12.631	141.760	141.762	0.524	0.310	0.370	38.100
78	3.900	12.795	84.770	84.772	0.451	0.370	0.532	41.400
79	3.950	12.959	55.940	55.951	1.648	1.830	2.945	40.900
80	4.000	13.123	107.640	107.660	7.003	3.220	6.505	36.500
81	4.050	13.287	132.290	132.303	4.819	2.010	3.642	33.400
82	4.100	13.451	170.010	170.009	5.688	-0.210	3.346	34.100
83	4.150	13.615	185.620	185.626	4.386	0.950	2.363	27.300
84	4.200	13.779	122.860	122.856	0.962	-0.660	0.783	26.500
85	4.250	13.943	116.730	116.727	0.700	-0.460	0.600	25.000
86	4.300	14.107	79.170	79.169	1.905	-0.100	2.406	22.800
87	4.350	14.271	55.760	55.763	2.480	0.550	4.447	26.300
88	4.400	14.436	73.700	73.712	1.796	1.850	2.437	32.200
89	4.450	14.600	85.370	85.380	1.544	1.550	1.808	30.800
90	4.500	14.764	75.980	75.990	0.387	1.610	0.509	34.700
91	4.550	14.928	64.940	64.940	0.429	0.000	0.661	32.200
92	4.600	15.092	51.920	51.926	1.251	0.960	2.409	41.800
93	4.650	15.256	44.730	44.737	1.874	1.150	4.189	37.200
94	4.700	15.420	83.930	83.930	2.207	0.040	2.630	43.400
95	4.750	15.584	66.160	66.160	2.365	0.010	3.575	42.400
96	4.800	15.748	49.020	49.026	0.414	0.990	0.844	34.000
97	4.850	15.912	53.500	53.499	0.414	-0.090	0.774	49.500
98	4.900	16.076	62.040	62.036	1.146	-0.690	1.847	58.700
99	4.950	16.240	48.740	48.739	1.105	-0.170	2.267	72.500
100	5.000	16.404	20.380	20.468	1.320	14.040	6.449	80.000
101	5.050	16.568	43.120	43.162	0.828	6.780	1.918	86.100
102	5.100	16.732	55.740	55.749	1.006	1.520	1.805	86.500
103	5.150	16.896	54.810	54.806	1.262	-0.620	2.303	97.100
104	5.200	17.060	45.770	45.756	1.383	-2.190	3.023	81.200
105	5.250	17.224	31.640	31.621	1.096	-3.070	3.466	87.100
106	5.300	17.388	23.400	23.378	0.915	-3.520	3.914	86.600
107	5.350	17.552	25.460	25.436	0.958	-3.880	3.766	70.100
108	5.400	17.716	34.240	34.210	0.948	-4.730	2.771	83.000
109	5.450	17.880	26.920	26.888	0.914	-5.140	3.399	85.600
110	5.500	18.044	20.940	20.907	0.704	-5.320	3.367	89.700
111	5.550	18.208	38.600	38.566	0.633	-5.420	1.641	89.100
112	5.600	18.372	28.020	27.984	0.848	-5.690	3.030	90.900
113	5.650	18.537	27.640	27.604	0.890	-5.710	3.224	93.600
114	5.700	18.701	25.360	25.323	0.986	-5.850	3.894	85.500
115	5.750	18.865	31.820	31.780	0.853	-6.420	2.684	88.900
116	5.800	19.029	39.810	39.769	0.691	-6.580	1.738	93.600
117	5.850	19.193	39.130	39.087	0.607	-6.910	1.553	83.900
118	5.900	19.357	34.780	34.735	0.564	-7.140	1.624	77.000
119	5.950	19.521	31.610	31.565	0.429	-7.250	1.359	69.200
120	6.000	19.685	33.060	33.013	0.751	-7.490	2.275	49.000
121	6.050	19.849	29.730	29.681	0.716	-7.770	2.412	61.100
122	6.100	20.013	32.960	32.934	1.131	-4.220	3.434	45.000
123	6.150	20.177	50.770	50.798	0.812	4.520	1.598	53.000
124	6.200	20.341	29.470	29.499	1.268	4.630	4.298	57.800
125	6.250	20.505	45.170	45.158	1.250	-1.930	2.768	44.100
126	6.300	20.669	24.700	24.685	1.244	-2.390	5.039	46.600
127	6.350	20.833	16.770	16.754	1.143	-2.630	6.822	29.600
128	6.400	20.997	40.040	40.026	1.153	-2.180	2.881	29.900
129	6.450	21.161	53.930	53.919	1.322	-1.810	2.452	24.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	51.000	50.991	1.406	-1.410	2.757	24.000
131	6.550	21.489	41.260	41.267	1.537	1.080	3.725	22.400
132	6.600	21.653	36.310	36.327	1.690	2.710	4.652	17.600
133	6.650	21.817	29.730	29.752	1.184	3.600	3.980	21.800
134	6.700	21.981	20.120	20.137	1.022	2.680	5.075	23.600
135	6.750	22.145	37.120	37.137	1.178	2.650	3.172	27.700
136	6.800	22.309	66.590	66.610	1.632	3.140	2.450	36.400
137	6.850	22.473	56.060	56.092	1.533	5.050	2.733	38.200
138	6.900	22.638	43.830	43.863	1.190	5.310	2.713	53.000
139	6.950	22.802	33.520	33.548	0.695	4.530	2.072	63.800
140	7.000	22.966	43.340	43.368	0.715	4.500	1.649	61.500
141	7.050	23.130	55.360	55.383	0.758	3.730	1.369	60.200
142	7.100	23.294	16.560	16.583	0.822	3.680	4.957	57.800
143	7.150	23.458	20.150	20.174	0.637	3.880	3.157	58.000
144	7.200	23.622	25.220	25.246	0.678	4.120	2.686	38.000
145	7.250	23.786	32.000	32.025	0.682	4.050	2.130	32.200
146	7.300	23.950	8.050	8.072	0.643	3.540	7.966	27.000
147	7.350	24.114	14.840	14.859	0.412	3.000	2.773	29.300
148	7.400	24.278	31.380	31.398	0.353	2.890	1.124	28.100
149	7.450	24.442	47.890	47.908	0.321	2.930	0.670	37.200
150	7.500	24.606	40.190	40.206	0.422	2.500	1.050	37.900
151	7.550	24.770	27.120	27.135	0.398	2.440	1.467	47.100
152	7.600	24.934	19.910	19.927	0.680	2.690	3.412	50.100
153	7.650	25.098	28.920	28.934	0.888	2.320	3.069	50.200
154	7.700	25.262	37.940	37.948	1.282	1.320	3.378	56.300
155	7.750	25.426	59.440	59.433	1.465	-1.070	2.465	49.500
156	7.800	25.590	89.250	89.230	1.911	-3.270	2.142	47.900
157	7.850	25.754	86.790	86.764	2.457	-4.160	2.832	63.800
158	7.900	25.918	96.900	96.869	2.209	-5.040	2.280	40.800
159	7.950	26.082	77.250	77.214	2.361	-5.690	3.058	38.000
160	8.000	26.246	75.780	75.743	1.979	-5.910	2.613	39.000
161	8.050	26.410	93.580	93.582	1.845	0.260	1.972	29.200
162	8.100	26.574	113.780	113.781	2.346	0.150	2.062	24.100
163	8.150	26.739	69.190	69.197	2.191	1.060	3.166	25.900
164	8.200	26.903	30.960	30.967	1.995	1.170	6.442	27.700
165	8.250	27.067	33.980	33.986	1.585	0.890	4.664	40.300
166	8.300	27.231	26.760	26.767	1.112	1.120	4.154	51.600
167	8.350	27.395	15.680	15.690	0.851	1.600	5.424	52.500
168	8.400	27.559	10.350	10.360	0.475	1.530	4.585	39.300
169	8.450	27.723	7.310	7.316	0.250	1.000	3.417	36.900
170	8.500	27.887	5.220	5.226	0.125	0.930	2.392	31.600
171	8.550	28.051	31.190	31.197	0.352	1.150	1.128	30.900
172	8.600	28.215	43.520	43.528	0.705	1.350	1.620	33.000
173	8.650	28.379	31.570	31.578	1.127	1.350	3.569	36.100
174	8.700	28.543	49.450	49.461	1.499	1.800	3.031	34.700
175	8.750	28.707	42.910	42.929	1.462	3.030	3.406	39.800
176	8.800	28.871	37.900	37.920	1.337	3.170	3.526	41.900
177	8.850	29.035	30.390	30.402	1.135	1.910	3.733	37.900
178	8.900	29.199	51.180	51.198	1.158	2.880	2.262	31.000
179	8.950	29.363	53.740	53.759	1.572	3.110	2.924	23.000
180	9.000	29.527	37.050	37.069	1.671	3.000	4.508	23.500
181	9.050	29.691	48.210	48.230	2.136	3.180	4.429	21.800
182	9.100	29.855	62.030	62.050	2.211	3.170	3.563	26.200
183	9.150	30.019	71.590	71.613	2.423	3.680	3.383	18.400
184	9.200	30.183	121.980	122.003	2.720	3.640	2.229	28.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	78.960	78.982	2.477	3.510	3.136	45.600
186	9.300	30.511	43.380	43.408	1.786	4.490	4.114	38.800
187	9.350	30.675	45.210	45.236	1.027	4.140	2.270	42.900
188	9.400	30.840	40.450	40.475	0.901	3.930	2.226	49.000
189	9.450	31.004	50.320	50.344	0.379	3.890	0.753	27.300
190	9.500	31.168	60.140	60.163	0.540	3.660	0.898	26.500
191	9.550	31.332	43.250	43.274	0.693	3.790	1.601	16.800
192	9.600	31.496	51.400	51.423	1.591	3.650	3.094	16.100
193	9.650	31.660	71.800	71.822	1.630	3.560	2.269	13.300
194	9.700	31.824	28.620	28.646	1.337	4.170	4.667	13.000
195	9.750	31.988	25.410	25.436	1.713	4.220	6.734	11.400
196	9.800	32.152	75.220	75.245	1.705	4.080	2.266	8.400
197	9.850	32.316	26.580	26.606	1.584	4.240	5.953	9.700
198	9.900	32.480	24.330	24.355	1.004	4.010	4.122	18.600
199	9.950	32.644	17.440	17.462	0.871	3.500	4.988	17.800
200	10.000	32.808	14.860	14.882	0.750	3.580	5.040	25.500
201	10.050	32.972	7.740	7.765	0.527	3.990	6.787	38.100
202	10.100	33.136	5.210	5.237	0.428	4.400	8.172	35.500
203	10.150	33.300	12.990	13.021	0.357	4.940	2.742	36.700
204	10.200	33.464	24.560	24.592	0.686	5.170	2.789	28.100
205	10.250	33.628	24.560	24.591	0.937	4.960	3.810	22.600
206	10.300	33.792	24.170	24.201	1.081	4.970	4.467	28.900
207	10.350	33.956	32.710	32.740	1.195	4.810	3.650	22.200
208	10.400	34.120	34.690	34.722	0.886	5.200	2.552	27.400
209	10.450	34.284	40.260	40.290	1.040	4.770	2.581	27.600
210	10.500	34.448	43.700	43.729	0.957	4.660	2.188	36.800
211	10.550	34.612	17.250	17.278	0.881	4.500	5.099	36.300
212	10.600	34.776	17.800	17.830	0.900	4.800	5.048	55.300
213	10.650	34.941	26.930	26.961	0.794	4.910	2.945	61.800
214	10.700	35.105	17.950	17.981	0.709	4.910	3.943	80.200
215	10.750	35.269	14.560	14.594	0.725	5.460	4.968	77.800
216	10.800	35.433	12.690	12.725	0.778	5.670	6.114	67.600
217	10.850	35.597	15.300	15.337	0.610	5.850	3.977	59.700
218	10.900	35.761	34.280	34.315	0.607	5.550	1.769	61.900
219	10.950	35.925	21.500	21.530	0.659	4.880	3.061	59.800
220	11.000	36.089	24.340	24.373	0.780	5.320	3.200	54.700
221	11.050	36.253	15.160	15.195	0.988	5.570	6.502	59.500
222	11.100	36.417	28.090	28.125	0.757	5.660	2.692	51.300
223	11.150	36.581	37.880	37.913	0.582	5.330	1.535	39.900
224	11.200	36.745	28.450	28.477	0.850	4.390	2.985	38.900
225	11.250	36.909	37.450	37.476	1.028	4.090	2.743	33.400
226	11.300	37.073	33.930	33.956	1.338	4.130	3.940	32.700
227	11.350	37.237	27.950	27.975	1.366	3.980	4.883	23.400
228	11.400	37.401	59.290	59.314	1.643	3.890	2.770	24.000
229	11.450	37.565	48.190	48.213	1.486	3.660	3.082	29.700
230	11.500	37.729	38.210	38.232	1.599	3.460	4.182	44.900
231	11.550	37.893	37.680	37.701	1.341	3.340	3.557	52.200
232	11.600	38.057	19.620	19.641	1.134	3.420	5.774	61.900
233	11.650	38.221	12.430	12.450	0.698	3.210	5.606	66.200
234	11.700	38.385	10.720	10.741	0.352	3.330	3.277	76.700
235	11.750	38.549	12.490	12.512	0.414	3.570	3.309	73.700
236	11.800	38.713	17.120	17.142	0.538	3.540	3.138	73.600
237	11.850	38.877	21.390	21.413	0.750	3.730	3.502	65.800
238	11.900	39.042	25.580	25.604	0.657	3.830	2.566	52.900
239	11.950	39.206	16.290	16.314	0.618	3.830	3.788	48.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	21.180	21.205	0.578	3.960	2.726	27.600
241	12.050	39.534	27.860	27.883	0.815	3.610	2.923	24.800
242	12.100	39.698	38.460	38.483	0.817	3.700	2.123	26.000
243	12.150	39.862	25.440	25.462	0.660	3.510	2.592	14.000
244	12.200	40.026	31.090	31.108	0.711	2.820	2.286	14.600
245	12.250	40.190	42.410	42.427	0.802	2.740	1.890	11.800
246	12.300	40.354	23.900	23.918	0.972	2.900	4.064	13.600
247	12.350	40.518	45.060	45.081	0.959	3.420	2.127	13.600
248	12.400	40.682	68.990	69.015	1.458	3.940	2.113	17.500
249	12.450	40.846	42.320	42.345	1.317	4.040	3.110	29.300
250	12.500	41.010	24.340	24.366	0.970	4.140	3.981	36.600
251	12.550	41.174	22.370	22.396	0.998	4.100	4.456	46.000
252	12.600	41.338	35.190	35.216	0.893	4.140	2.536	55.900
253	12.650	41.502	16.490	16.517	0.842	4.390	5.098	49.300
254	12.700	41.666	14.830	14.855	0.789	4.000	5.311	57.300
255	12.750	41.830	20.640	20.662	0.702	3.490	3.398	47.700
256	12.800	41.994	12.300	12.324	0.570	3.850	4.625	36.600
257	12.850	42.158	8.620	8.645	0.406	4.060	4.696	38.300
258	12.900	42.322	9.090	9.114	0.394	3.860	4.323	32.000
259	12.950	42.486	12.560	12.582	0.508	3.570	4.037	35.800
260	13.000	42.650	17.780	17.802	0.534	3.540	3.000	26.500
261	13.050	42.814	32.460	32.480	0.777	3.150	2.392	42.600
262	13.100	42.978	18.170	18.190	0.907	3.200	4.986	34.300
263	13.150	43.143	23.500	23.521	0.965	3.390	4.103	45.000
264	13.200	43.307	23.170	23.193	0.873	3.730	3.764	54.000
265	13.250	43.471	25.120	25.141	0.894	3.310	3.556	50.600
266	13.300	43.635	21.370	21.389	0.758	3.120	3.544	41.500
267	13.350	43.799	23.090	23.109	0.812	3.010	3.514	41.400
268	13.400	43.963	29.270	29.289	0.919	3.040	3.138	35.300
269	13.450	44.127	13.910	13.928	0.790	2.850	5.672	31.700
270	13.500	44.291	19.320	19.337	0.847	2.690	4.380	25.600
271	13.550	44.455	30.780	30.797	0.932	2.690	3.026	31.700
272	13.600	44.619	20.750	20.768	0.824	2.810	3.968	22.600
273	13.650	44.783	11.810	11.832	0.688	3.450	5.815	28.400
274	13.700	44.947	14.070	14.092	0.782	3.490	5.549	23.700
275	13.750	45.111	19.290	19.311	0.807	3.310	4.179	24.600
276	13.800	45.275	16.420	16.446	0.974	4.210	5.922	26.200
277	13.850	45.439	29.090	29.117	1.186	4.270	4.073	27.900
278	13.900	45.603	25.480	25.507	1.064	4.290	4.171	30.400
279	13.950	45.767	21.050	21.073	0.884	3.730	4.195	26.300
280	14.000	45.931	14.180	14.208	1.136	4.430	7.996	30.600
281	14.050	46.095	27.390	27.423	1.328	5.330	4.843	26.500
282	14.100	46.259	43.300	43.334	2.093	5.390	4.830	29.900
283	14.150	46.423	25.930	25.962	2.260	5.110	8.705	29.000
284	14.200	46.587	25.160	25.183	1.963	3.710	7.795	32.800
285	14.250	46.751	36.120	36.148	1.337	4.440	3.699	39.300
286	14.300	46.915	51.710	51.741	1.244	4.930	2.404	55.600
287	14.350	47.079	66.720	66.751	0.992	4.940	1.486	51.300
288	14.400	47.244	149.120	149.152	1.095	5.130	0.734	55.800
289	14.450	47.408	191.980	192.013	1.370	5.210	0.713	60.700
290	14.500	47.572	206.570	206.604	1.846	5.390	0.893	52.200
291	14.550	47.736	207.340	207.375	2.267	5.650	1.093	54.000
292	14.600	47.900	209.470	209.505	2.479	5.660	1.183	45.600
293	14.650	48.064	212.210	212.247	2.698	5.890	1.271	55.500
294	14.700	48.228	212.240	212.277	2.793	5.990	1.316	46.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	206.210	206.248	2.901	6.100	1.407	52.600
296	14.800	48.556	199.400	199.439	2.852	6.180	1.430	56.000
297	14.850	48.720	192.530	192.569	2.719	6.230	1.412	48.200
298	14.900	48.884	186.010	186.050	2.702	6.340	1.452	50.300
299	14.950	49.048	176.280	176.319	2.648	6.310	1.502	51.700
300	15.000	49.212	150.310	150.350	2.528	6.340	1.681	61.900
301	15.050	49.376	124.020	124.060	2.166	6.370	1.746	51.700
302	15.100	49.540	107.150	107.190	1.701	6.380	1.587	69.900
303	15.150	49.704	97.460	97.500	1.304	6.400	1.337	67.900
304	15.200	49.868	92.820	92.860	1.016	6.370	1.094	57.900
305	15.250	50.032	90.670	90.709	0.772	6.200	0.851	57.800
306	15.300	50.196	87.290	87.323	0.461	5.350	0.528	59.500
307	15.350	50.360	86.930	86.963	0.457	5.330	0.526	53.200
308	15.400	50.524	91.300	91.331	0.637	4.920	0.697	59.700
309	15.450	50.688	103.420	103.449	0.800	4.700	0.773	61.200
310	15.500	50.852	118.450	118.472	1.039	3.600	0.877	59.200
311	15.550	51.016	142.910	142.929	1.218	3.010	0.852	57.000
312	15.600	51.180	165.320	165.336	1.205	2.610	0.729	50.000
313	15.650	51.345	194.070	194.084	1.368	2.190	0.705	48.200
314	15.700	51.509	189.910	189.921	1.648	1.790	0.868	0.000
315	15.750	51.673	164.780	164.791	1.931	1.710	1.172	0.000
316	15.800	51.837	149.150	149.161	1.868	1.750	1.252	0.000
317	15.850	52.001	148.560	148.571	1.712	1.750	1.152	0.000
318	15.900	52.165	166.820	166.831	1.743	1.770	1.045	0.000
319	15.950	52.329	205.500	205.512	2.042	1.910	0.994	0.000
320	16.000	52.493	238.330	238.343	2.499	2.120	1.048	0.000
321	16.050	52.657	239.250	239.264	2.747	2.290	1.148	0.000
322	16.100	52.821	237.580	237.595	2.668	2.480	1.123	0.000
323	16.150	52.985	235.010	235.026	2.492	2.510	1.060	0.000
324	16.200	53.149	229.790	229.807	2.466	2.690	1.073	0.000
325	16.250	53.313	233.900	233.917	2.533	2.770	1.083	0.000
326	16.300	53.477	238.340	238.358	2.592	2.960	1.087	0.000
327	16.350	53.641	251.320	251.339	2.902	3.080	1.155	0.000
328	16.400	53.805	279.150	279.170	0.000	3.230	0.000	0.000
329	16.450	53.969	290.530	290.553	0.000	3.640	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221571
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-9-3A
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-15-2013
CPT Time:	13:53
CPT File:	13-53075_GP9-3A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722182.433
Northing / Lat:	4294309.732
Elevation:	145.955
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	14.000	14.001	0.002	0.180	0.014	34.100
2	0.100	0.328	45.540	45.541	0.078	0.130	0.171	41.700
3	0.150	0.492	65.310	65.311	0.234	0.140	0.358	41.800
4	0.200	0.656	69.650	69.651	0.279	0.130	0.401	53.000
5	0.250	0.820	70.010	70.011	0.738	0.170	1.054	61.600
6	0.300	0.984	58.990	58.991	0.956	0.160	1.621	71.700
7	0.350	1.148	28.390	28.392	1.410	0.380	4.966	74.200
8	0.400	1.312	31.710	31.713	0.697	0.560	2.198	77.400
9	0.450	1.476	67.360	67.359	0.888	-0.140	1.318	73.900
10	0.500	1.640	82.930	82.935	2.007	0.820	2.420	73.200
11	0.550	1.804	148.060	148.061	2.027	0.150	1.369	64.200
12	0.600	1.968	194.920	194.912	1.919	-1.260	0.985	68.100
13	0.650	2.133	150.440	150.448	2.176	1.270	1.446	76.900
14	0.700	2.297	163.130	163.132	1.983	0.300	1.216	76.200
15	0.750	2.461	148.320	148.326	2.099	0.970	1.415	71.600
16	0.800	2.625	159.370	159.375	3.186	0.850	1.999	77.600
17	0.850	2.789	194.560	194.568	1.977	1.290	1.016	67.400
18	0.900	2.953	216.060	216.079	1.716	2.990	0.794	72.100
19	0.950	3.117	220.380	220.385	3.639	0.870	1.651	62.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	201.940	201.967	2.524	4.250	1.250	71.100
21	1.050	3.445	173.080	173.097	3.181	2.790	1.838	77.400
22	1.100	3.609	70.370	70.372	2.933	0.300	4.168	72.000
23	1.150	3.773	68.700	68.723	2.083	3.700	3.031	79.300
24	1.200	3.937	57.150	57.173	2.256	3.670	3.946	74.800
25	1.250	4.101	38.200	38.227	2.056	4.260	5.378	74.600
26	1.300	4.265	37.960	37.988	1.800	4.410	4.738	77.700
27	1.350	4.429	42.640	42.660	1.421	3.230	3.331	67.200
28	1.400	4.593	55.600	55.608	1.094	1.360	1.967	80.300
29	1.450	4.757	51.670	51.670	1.367	0.020	2.646	71.200
30	1.500	4.921	47.090	47.103	1.447	2.020	3.072	75.900
31	1.550	5.085	28.630	28.641	1.451	1.750	5.066	63.900
32	1.600	5.249	36.130	36.136	1.081	0.970	2.991	82.300
33	1.650	5.413	19.610	19.613	0.950	0.450	4.844	62.200
34	1.700	5.577	24.670	24.677	0.942	1.060	3.817	72.400
35	1.750	5.741	25.220	25.221	0.932	0.120	3.695	66.400
36	1.800	5.905	23.780	23.772	0.930	-1.270	3.912	62.400
37	1.850	6.069	24.430	24.428	0.775	-0.250	3.173	70.400
38	1.900	6.234	36.050	36.038	0.766	-1.890	2.126	59.700
39	1.950	6.398	40.450	40.449	0.880	-0.220	2.176	62.300
40	2.000	6.562	42.850	42.856	1.109	0.970	2.588	72.600
41	2.050	6.726	39.010	39.012	1.068	0.280	2.738	64.800
42	2.100	6.890	32.860	32.863	0.809	0.410	2.462	70.300
43	2.150	7.054	47.640	47.638	0.813	-0.360	1.707	64.100
44	2.200	7.218	35.420	35.424	0.873	0.700	2.464	77.300
45	2.250	7.382	25.500	25.510	0.829	1.530	3.250	78.000
46	2.300	7.546	17.810	17.834	0.792	3.780	4.441	83.000
47	2.350	7.710	12.120	12.156	0.485	5.690	3.990	81.300
48	2.400	7.874	12.370	12.417	0.420	7.600	3.382	76.700
49	2.450	8.038	14.840	14.888	0.399	7.750	2.680	91.600
50	2.500	8.202	15.700	15.748	0.440	7.610	2.794	89.700
51	2.550	8.366	17.720	17.767	0.467	7.450	2.629	95.900
52	2.600	8.530	21.610	21.655	0.592	7.210	2.734	93.000
53	2.650	8.694	27.470	27.515	0.692	7.210	2.515	87.500
54	2.700	8.858	35.220	35.275	0.854	8.820	2.421	90.300
55	2.750	9.022	50.590	50.637	0.760	7.530	1.501	84.600
56	2.800	9.186	55.560	55.571	0.757	1.830	1.362	73.700
57	2.850	9.350	41.470	41.469	0.631	-0.230	1.522	61.600
58	2.900	9.514	35.820	35.820	0.604	-0.010	1.686	57.200
59	2.950	9.678	28.550	28.551	0.622	0.210	2.179	40.600
60	3.000	9.842	22.610	22.603	0.662	-1.160	2.929	36.000
61	3.050	10.006	27.290	27.293	0.409	0.490	1.499	33.700
62	3.100	10.170	47.870	47.880	0.990	1.530	2.068	31.700
63	3.150	10.335	61.450	61.450	1.125	0.000	1.831	28.900
64	3.200	10.499	38.260	38.262	1.036	0.260	2.708	31.800
65	3.250	10.663	28.880	28.888	0.866	1.210	2.998	32.800
66	3.300	10.827	35.300	35.296	0.647	-0.710	1.833	48.000
67	3.350	10.991	22.820	22.832	0.549	1.970	2.404	42.000
68	3.400	11.155	24.650	24.653	0.598	0.450	2.426	57.500
69	3.450	11.319	17.660	17.676	0.472	2.550	2.670	73.000
70	3.500	11.483	21.600	21.631	0.440	4.890	2.034	74.700
71	3.550	11.647	39.630	39.652	0.593	3.470	1.496	73.100
72	3.600	11.811	50.340	50.300	0.838	-6.380	1.666	74.600
73	3.650	11.975	46.020	45.975	1.058	-7.270	2.301	76.100
74	3.700	12.139	47.830	47.786	1.046	-7.120	2.189	80.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	64.090	64.041	1.091	-7.790	1.704	80.300
76	3.800	12.467	59.750	59.705	1.393	-7.230	2.333	80.200
77	3.850	12.631	59.430	59.389	1.292	-6.550	2.175	75.200
78	3.900	12.795	60.680	60.642	1.184	-6.030	1.952	61.200
79	3.950	12.959	49.380	49.341	1.069	-6.240	2.167	40.800
80	4.000	13.123	36.780	36.741	1.069	-6.170	2.910	23.100
81	4.050	13.287	29.020	28.986	0.947	-5.390	3.267	26.800
82	4.100	13.451	89.260	89.233	1.713	-4.360	1.920	20.200
83	4.150	13.615	57.270	57.255	2.081	-2.330	3.635	20.500
84	4.200	13.779	26.540	26.563	1.860	3.750	7.002	13.900
85	4.250	13.943	77.980	77.990	1.655	1.530	2.122	22.600
86	4.300	14.107	47.980	48.007	1.785	4.250	3.718	38.400
87	4.350	14.271	45.600	45.645	1.816	7.190	3.979	46.900
88	4.400	14.436	42.460	42.500	1.760	6.380	4.141	49.800
89	4.450	14.600	51.590	51.614	1.387	3.790	2.687	75.100
90	4.500	14.764	42.370	42.389	1.443	3.060	3.404	65.200
91	4.550	14.928	55.180	55.142	1.277	-6.080	2.316	92.000
92	4.600	15.092	57.860	57.813	1.250	-7.480	2.162	101.800
93	4.650	15.256	77.760	77.721	1.578	-6.190	2.030	103.800
94	4.700	15.420	63.720	63.679	1.850	-6.580	2.905	103.400
95	4.750	15.584	49.700	49.656	1.897	-7.010	3.820	101.500
96	4.800	15.748	33.060	33.013	1.516	-7.540	4.592	87.600
97	4.850	15.912	32.490	32.448	1.210	-6.730	3.729	99.500
98	4.900	16.076	43.530	43.489	1.076	-6.570	2.474	86.800
99	4.950	16.240	42.510	42.469	1.081	-6.640	2.545	89.700
100	5.000	16.404	36.660	36.615	1.161	-7.140	3.171	88.200
101	5.050	16.568	34.180	34.136	1.146	-7.110	3.357	85.400
102	5.100	16.732	28.590	28.544	1.083	-7.340	3.794	80.800
103	5.150	16.896	23.000	22.951	1.066	-7.780	4.645	73.400
104	5.200	17.060	21.480	21.429	0.890	-8.220	4.153	66.000
105	5.250	17.224	28.550	28.501	0.928	-7.850	3.256	63.600
106	5.300	17.388	12.380	12.332	0.629	-7.650	5.100	56.800
107	5.350	17.552	47.330	47.284	1.174	-7.310	2.483	59.000
108	5.400	17.716	88.690	88.647	1.194	-6.950	1.347	64.200
109	5.450	17.880	18.410	18.406	1.096	-0.590	5.954	78.100
110	5.500	18.044	17.840	17.834	0.524	-0.920	2.938	71.800
111	5.550	18.208	16.560	16.540	0.513	-3.200	3.102	74.500
112	5.600	18.372	16.520	16.503	0.501	-2.720	3.036	87.400
113	5.650	18.537	20.540	20.522	0.501	-2.870	2.441	65.900
114	5.700	18.701	17.590	17.563	0.430	-4.380	2.448	66.100
115	5.750	18.865	13.400	13.383	0.376	-2.770	2.810	67.100
116	5.800	19.029	8.890	8.878	0.369	-1.890	4.156	63.500
117	5.850	19.193	8.590	8.592	0.502	0.280	5.843	55.300
118	5.900	19.357	30.440	30.442	0.509	0.310	1.672	46.400
119	5.950	19.521	95.010	95.011	0.746	0.180	0.785	33.000
120	6.000	19.685	90.160	90.185	0.699	4.010	0.775	38.100
121	6.050	19.849	21.420	21.443	1.032	3.640	4.813	37.600
122	6.100	20.013	26.520	26.522	0.413	0.290	1.557	33.700
123	6.150	20.177	19.960	19.964	0.289	0.580	1.448	42.900
124	6.200	20.341	16.220	16.224	0.367	0.670	2.262	50.500
125	6.250	20.505	7.760	7.761	0.214	0.190	2.757	44.100
126	6.300	20.669	17.010	17.013	0.207	0.430	1.217	52.000
127	6.350	20.833	17.070	17.072	0.235	0.310	1.377	61.800
128	6.400	20.997	16.990	16.992	0.442	0.310	2.601	48.100
129	6.450	21.161	11.930	11.941	0.162	1.810	1.357	60.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	18.990	18.991	0.221	0.150	1.164	56.900
131	6.550	21.489	53.300	53.265	0.678	-5.580	1.273	57.100
132	6.600	21.653	57.060	56.988	1.542	-11.540	2.706	65.700
133	6.650	21.817	73.940	73.852	1.811	-14.110	2.452	57.400
134	6.700	21.981	44.100	43.999	1.780	-16.100	4.046	57.900
135	6.750	22.145	36.320	36.221	1.496	-15.780	4.130	66.900
136	6.800	22.309	35.350	35.256	1.354	-15.100	3.841	71.200
137	6.850	22.473	36.840	36.747	1.522	-14.830	4.142	74.300
138	6.900	22.638	53.750	53.659	2.236	-14.540	4.167	58.400
139	6.950	22.802	67.080	66.982	2.475	-15.770	3.695	69.300
140	7.000	22.966	43.050	42.956	1.979	-15.060	4.607	46.100
141	7.050	23.130	72.070	71.978	1.843	-14.700	2.560	41.600
142	7.100	23.294	44.960	44.961	1.121	0.200	2.493	47.000
143	7.150	23.458	55.010	55.008	1.531	-0.360	2.783	41.600
144	7.200	23.622	64.430	64.430	1.557	0.070	2.417	46.000
145	7.250	23.786	82.790	82.790	1.615	0.040	1.951	35.500
146	7.300	23.950	48.490	48.505	1.973	2.460	4.068	29.200
147	7.350	24.114	59.540	59.557	2.305	2.650	3.870	32.600
148	7.400	24.278	88.590	88.607	2.195	2.670	2.477	27.800
149	7.450	24.442	63.470	63.490	1.835	3.200	2.890	29.200
150	7.500	24.606	108.780	108.792	2.225	1.940	2.045	25.400
151	7.550	24.770	71.400	71.403	2.100	0.520	2.941	26.200
152	7.600	24.934	40.610	40.617	1.704	1.150	4.195	29.100
153	7.650	25.098	35.670	35.676	0.779	0.910	2.184	27.600
154	7.700	25.262	20.350	20.349	0.818	-0.120	4.020	21.400
155	7.750	25.426	17.590	17.589	0.810	-0.230	4.605	25.900
156	7.800	25.590	12.580	12.578	0.548	-0.270	4.357	31.100
157	7.850	25.754	32.190	32.189	0.491	-0.110	1.525	26.500
158	7.900	25.918	21.420	21.420	0.706	-0.050	3.296	18.100
159	7.950	26.082	31.920	31.922	1.874	0.330	5.871	17.500
160	8.000	26.246	57.730	57.738	2.499	1.320	4.328	16.000
161	8.050	26.410	140.040	140.076	4.604	5.740	3.287	14.400
162	8.100	26.574	134.350	134.418	4.943	10.930	3.677	14.900
163	8.150	26.739	73.180	73.238	4.239	9.300	5.788	15.400
164	8.200	26.903	45.360	45.421	2.215	9.720	4.877	19.700
165	8.250	27.067	55.180	55.236	0.718	9.000	1.300	25.900
166	8.300	27.231	15.960	15.988	0.694	4.450	4.341	23.300
167	8.350	27.395	25.150	25.166	0.552	2.610	2.193	35.900
168	8.400	27.559	17.590	17.616	0.638	4.230	3.622	33.300
169	8.450	27.723	33.310	33.348	0.585	6.140	1.754	33.200
170	8.500	27.887	35.520	35.561	0.847	6.580	2.382	30.300
171	8.550	28.051	47.540	47.566	1.233	4.160	2.592	23.900
172	8.600	28.215	47.030	47.050	1.459	3.260	3.101	33.000
173	8.650	28.379	41.300	41.330	1.452	4.750	3.513	33.600
174	8.700	28.543	39.320	39.349	1.410	4.720	3.583	35.400
175	8.750	28.707	27.460	27.476	1.188	2.590	4.324	29.000
176	8.800	28.871	52.120	52.150	1.099	4.800	2.107	25.100
177	8.850	29.035	78.260	78.289	1.947	4.680	2.487	24.000
178	8.900	29.199	105.690	105.707	2.157	2.710	2.041	18.100
179	8.950	29.363	58.020	58.045	2.291	4.070	3.947	20.200
180	9.000	29.527	42.910	42.939	2.221	4.570	5.173	28.100
181	9.050	29.691	22.930	22.953	1.464	3.750	6.378	28.800
182	9.100	29.855	104.940	104.957	1.196	2.650	1.140	33.800
183	9.150	30.019	69.270	69.278	1.157	1.330	1.670	48.000
184	9.200	30.183	42.780	42.802	1.107	3.480	2.586	67.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	29.060	29.079	0.832	3.120	2.861	81.800
186	9.300	30.511	25.150	25.170	0.554	3.240	2.201	88.400
187	9.350	30.675	19.950	19.972	0.586	3.560	2.934	63.100
188	9.400	30.840	22.160	22.186	0.687	4.220	3.096	65.000
189	9.450	31.004	26.610	26.643	0.645	5.300	2.421	58.500
190	9.500	31.168	54.730	54.761	1.156	4.930	2.111	59.300
191	9.550	31.332	74.550	74.581	1.243	4.930	1.667	63.100
192	9.600	31.496	86.230	86.262	1.119	5.180	1.297	72.700
193	9.650	31.660	115.270	115.301	0.934	4.940	0.810	58.400
194	9.700	31.824	127.850	127.879	1.321	4.600	1.033	60.600
195	9.750	31.988	128.180	128.207	1.521	4.350	1.186	64.900
196	9.800	32.152	139.640	139.664	1.577	3.880	1.129	51.800
197	9.850	32.316	109.400	109.424	2.030	3.830	1.855	60.900
198	9.900	32.480	79.620	79.642	2.157	3.590	2.708	63.400
199	9.950	32.644	49.420	49.442	1.770	3.480	3.580	53.100
200	10.000	32.808	50.460	50.484	1.573	3.890	3.116	53.500
201	10.050	32.972	44.380	44.411	1.265	5.010	2.848	56.600
202	10.100	33.136	37.420	37.446	1.145	4.230	3.058	70.400
203	10.150	33.300	24.570	24.593	0.957	3.630	3.891	64.900
204	10.200	33.464	22.820	22.849	0.783	4.660	3.427	63.700
205	10.250	33.628	27.550	27.583	0.912	5.260	3.306	73.200
206	10.300	33.792	31.010	31.045	1.215	5.590	3.914	54.500
207	10.350	33.956	86.880	86.917	1.805	5.860	2.077	41.400
208	10.400	34.120	76.260	76.301	2.027	6.540	2.657	30.300
209	10.450	34.284	91.420	91.456	2.518	5.720	2.753	28.700
210	10.500	34.448	65.850	65.884	2.028	5.400	3.078	21.700
211	10.550	34.612	50.040	50.074	2.052	5.470	4.098	25.800
212	10.600	34.776	78.340	78.371	1.874	4.910	2.391	18.800
213	10.650	34.941	61.870	61.897	1.733	4.350	2.800	20.500
214	10.700	35.105	52.200	52.226	1.449	4.170	2.774	22.400
215	10.750	35.269	31.570	31.594	1.356	3.910	4.292	18.700
216	10.800	35.433	22.540	22.560	1.235	3.210	5.474	23.900
217	10.850	35.597	42.990	42.999	1.239	1.520	2.881	21.100
218	10.900	35.761	62.370	62.389	1.874	3.090	3.004	21.000
219	10.950	35.925	52.530	52.549	2.459	3.090	4.679	14.700
220	11.000	36.089	57.970	57.984	2.436	2.220	4.201	28.200
221	11.050	36.253	46.520	46.534	1.656	2.190	3.559	28.300
222	11.100	36.417	42.090	42.102	0.955	1.890	2.268	27.100
223	11.150	36.581	46.390	46.400	0.880	1.620	1.897	31.900
224	11.200	36.745	46.810	46.812	1.081	0.250	2.309	31.500
225	11.250	36.909	51.300	51.320	1.341	3.140	2.613	49.700
226	11.300	37.073	47.110	47.133	1.567	3.660	3.325	55.200
227	11.350	37.237	38.290	38.318	1.545	4.520	4.032	51.100
228	11.400	37.401	30.040	30.062	1.357	3.490	4.514	49.200
229	11.450	37.565	46.590	46.615	1.255	4.080	2.692	50.000
230	11.500	37.729	37.600	37.625	1.244	4.020	3.306	34.000
231	11.550	37.893	39.330	39.346	1.417	2.560	3.601	37.200
232	11.600	38.057	43.220	43.233	1.364	2.110	3.155	44.500
233	11.650	38.221	41.300	41.315	1.379	2.330	3.338	42.700
234	11.700	38.385	31.230	31.247	1.049	2.740	3.357	48.700
235	11.750	38.549	23.370	23.392	0.824	3.500	3.523	40.600
236	11.800	38.713	21.950	21.977	0.926	4.340	4.213	33.200
237	11.850	38.877	23.390	23.409	1.046	3.010	4.468	33.600
238	11.900	39.042	80.670	80.687	1.679	2.790	2.081	31.100
239	11.950	39.206	68.000	68.017	1.779	2.780	2.616	28.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	77.520	77.538	2.332	2.950	3.008	36.300
241	12.050	39.534	93.820	93.837	2.078	2.720	2.214	22.600
242	12.100	39.698	81.580	81.591	1.912	1.700	2.343	18.300
243	12.150	39.862	89.750	89.757	2.244	1.140	2.500	19.700
244	12.200	40.026	94.920	94.940	2.294	3.160	2.416	18.900
245	12.250	40.190	63.820	63.833	2.091	2.050	3.276	19.400
246	12.300	40.354	85.580	85.599	2.524	3.000	2.949	15.500
247	12.350	40.518	230.030	230.051	2.827	3.320	1.229	32.800
248	12.400	40.682	154.020	154.029	2.977	1.470	1.933	31.800
249	12.450	40.846	90.460	90.465	2.258	0.750	2.496	27.300
250	12.500	41.010	88.320	88.325	1.986	0.860	2.249	29.900
251	12.550	41.174	64.020	64.028	1.805	1.210	2.819	26.200
252	12.600	41.338	70.110	70.118	2.241	1.320	3.196	30.600
253	12.650	41.502	67.820	67.830	2.211	1.550	3.260	36.700
254	12.700	41.666	108.980	108.991	3.111	1.710	2.854	30.900
255	12.750	41.830	123.070	123.085	3.266	2.420	2.653	42.400
256	12.800	41.994	51.520	51.541	2.833	3.410	5.497	52.100
257	12.850	42.158	41.810	41.832	2.260	3.590	5.403	47.700
258	12.900	42.322	46.200	46.221	1.496	3.340	3.237	38.400
259	12.950	42.486	49.040	49.060	1.500	3.220	3.057	44.200
260	13.000	42.650	43.010	43.027	1.554	2.690	3.612	34.800
261	13.050	42.814	34.860	34.872	1.185	1.900	3.398	31.900
262	13.100	42.978	27.860	27.867	0.802	1.120	2.878	29.100
263	13.150	43.143	25.120	25.124	0.571	0.690	2.273	36.600
264	13.200	43.307	18.570	18.573	0.411	0.470	2.213	32.500
265	13.250	43.471	14.670	14.671	0.566	0.200	3.858	35.600
266	13.300	43.635	23.360	23.359	0.631	-0.240	2.701	33.300
267	13.350	43.799	27.620	27.620	0.829	-0.040	3.001	38.500
268	13.400	43.963	37.830	37.833	1.056	0.470	2.791	37.600
269	13.450	44.127	47.140	47.146	1.161	0.910	2.463	50.700
270	13.500	44.291	40.260	40.263	1.131	0.440	2.809	53.600
271	13.550	44.455	39.390	39.400	1.144	1.530	2.904	52.900
272	13.600	44.619	45.050	45.051	0.891	0.150	1.978	66.900
273	13.650	44.783	50.930	50.931	1.142	0.200	2.242	66.700
274	13.700	44.947	61.730	61.729	1.094	-0.140	1.772	52.700
275	13.750	45.111	34.370	34.367	1.204	-0.490	3.503	64.200
276	13.800	45.275	26.080	26.075	1.234	-0.880	4.733	61.500
277	13.850	45.439	18.590	18.586	0.566	-0.630	3.045	64.900
278	13.900	45.603	17.580	17.576	0.453	-0.650	2.577	71.300
279	13.950	45.767	16.120	16.115	0.348	-0.730	2.159	69.000
280	14.000	45.931	13.030	13.025	0.264	-0.770	2.027	69.500
281	14.050	46.095	13.370	13.366	0.154	-0.690	1.152	81.900
282	14.100	46.259	12.860	12.855	0.198	-0.800	1.540	87.000
283	14.150	46.423	21.320	21.317	0.284	-0.540	1.332	92.100
284	14.200	46.587	49.480	49.479	0.438	-0.210	0.885	88.000
285	14.250	46.751	47.970	47.969	0.648	-0.220	1.351	84.700
286	14.300	46.915	31.900	31.900	0.921	-0.010	2.887	93.300
287	14.350	47.079	25.260	25.261	0.905	0.140	3.583	85.000
288	14.400	47.244	26.770	26.772	0.793	0.400	2.962	84.900
289	14.450	47.408	40.520	40.524	0.909	0.650	2.243	85.500
290	14.500	47.572	73.910	73.914	0.952	0.710	1.288	93.200
291	14.550	47.736	136.970	136.974	1.274	0.680	0.930	101.300
292	14.600	47.900	188.520	188.525	1.763	0.840	0.935	92.100
293	14.650	48.064	256.570	256.578	2.638	1.250	1.028	84.500
294	14.700	48.228	314.100	314.110	3.519	1.530	1.120	79.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	333.730	333.742	4.448	1.920	1.333	74.800
296	14.800	48.556	333.500	333.514	5.113	2.300	1.533	75.000
297	14.850	48.720	308.540	308.555	5.337	2.480	1.730	77.700
298	14.900	48.884	269.110	269.127	5.125	2.670	1.904	69.300
299	14.950	49.048	209.190	209.207	4.375	2.730	2.091	81.200
300	15.000	49.212	164.570	164.587	3.493	2.770	2.122	75.300
301	15.050	49.376	138.470	138.486	2.727	2.590	1.969	76.400
302	15.100	49.540	126.060	126.076	2.301	2.600	1.825	86.600
303	15.150	49.704	118.210	118.226	2.055	2.620	1.738	75.200
304	15.200	49.868	122.540	122.556	1.648	2.620	1.345	78.000
305	15.250	50.032	136.130	136.146	1.708	2.630	1.255	69.400
306	15.300	50.196	164.560	164.570	1.898	1.550	1.153	76.500
307	15.350	50.360	213.120	213.129	2.091	1.410	0.981	67.200
308	15.400	50.524	248.130	248.139	2.381	1.390	0.960	57.500
309	15.450	50.688	232.360	232.369	2.575	1.500	1.108	68.900
310	15.500	50.852	202.400	202.410	2.562	1.540	1.266	45.300
311	15.550	51.016	183.770	183.780	2.373	1.600	1.291	64.700
312	15.600	51.180	163.890	163.900	2.262	1.620	1.380	50.800
313	15.650	51.345	152.140	152.150	1.962	1.680	1.290	53.000
314	15.700	51.509	154.180	154.191	1.725	1.740	1.119	51.400
315	15.750	51.673	163.580	163.591	1.720	1.730	1.051	52.100
316	15.800	51.837	163.290	163.301	1.804	1.720	1.105	55.500
317	15.850	52.001	166.450	166.462	1.780	1.860	1.069	56.400
318	15.900	52.165	172.600	172.612	1.871	1.870	1.084	48.700
319	15.950	52.329	177.580	177.592	1.873	1.950	1.055	54.600
320	16.000	52.493	180.230	180.242	1.883	1.990	1.045	61.500
321	16.050	52.657	184.160	184.173	1.854	2.040	1.007	51.900
322	16.100	52.821	187.210	187.223	1.859	2.020	0.993	58.500
323	16.150	52.985	196.900	196.913	1.917	2.040	0.974	46.900
324	16.200	53.149	210.460	210.474	2.147	2.170	1.020	52.800
325	16.250	53.313	207.090	207.104	2.235	2.190	1.079	58.300
326	16.300	53.477	198.310	198.324	2.268	2.290	1.144	0.000
327	16.350	53.641	192.420	192.434	2.251	2.260	1.170	0.000
328	16.400	53.805	161.040	161.054	2.125	2.310	1.319	0.000
329	16.450	53.969	119.420	119.435	1.713	2.360	1.434	0.000
330	16.500	54.133	97.810	97.825	1.695	2.330	1.733	0.000
331	16.550	54.297	95.670	95.685	1.252	2.340	1.308	0.000
332	16.600	54.461	93.410	93.423	1.072	2.150	1.147	0.000
333	16.650	54.625	113.170	113.184	1.137	2.210	1.005	0.000
334	16.700	54.789	141.380	141.394	1.161	2.210	0.821	0.000
335	16.750	54.953	150.750	150.761	1.140	1.830	0.756	0.000
336	16.800	55.117	161.900	161.903	1.029	0.530	0.636	0.000
337	16.850	55.281	156.810	156.810	1.169	0.060	0.745	0.000
338	16.900	55.446	158.500	158.498	1.271	-0.290	0.802	0.000
339	16.950	55.610	178.040	178.038	1.425	-0.300	0.800	0.000
340	17.000	55.774	225.750	225.748	0.000	-0.300	0.000	0.000
341	17.050	55.938	260.960	260.959	0.000	-0.120	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221569
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-9-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-15-2013
CPT Time:	13:34
CPT File:	13-53075_GP9-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722182.375
Northing / Lat:	4294309.573
Elevation:	146.106
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.400	2.401	0.004	0.190	0.167	27.300
2	0.100	0.328	19.710	19.713	0.047	0.420	0.238	28.600
3	0.150	0.492	28.920	28.921	0.159	0.200	0.550	46.500
4	0.200	0.656	43.620	43.620	0.183	0.080	0.420	46.300
5	0.250	0.820	42.970	42.968	0.321	-0.370	0.747	55.500
6	0.300	0.984	25.350	25.361	0.495	1.690	1.952	59.900
7	0.350	1.148	27.030	27.032	0.609	0.270	2.253	54.900
8	0.400	1.312	40.080	40.081	0.581	0.110	1.450	59.000
9	0.450	1.476	37.260	37.267	0.451	1.190	1.210	58.700
10	0.500	1.640	47.500	47.506	0.390	0.900	0.821	54.800
11	0.550	1.804	61.770	61.773	0.495	0.420	0.801	60.700
12	0.600	1.968	79.510	79.535	0.574	4.030	0.722	47.700
13	0.650	2.133	69.870	69.888	0.699	2.850	1.000	56.500
14	0.700	2.297	67.340	67.356	0.743	2.520	1.103	0.000
15	0.750	2.461	70.020	70.028	0.730	1.290	1.042	0.000
16	0.800	2.625	78.500	78.503	0.783	0.410	0.997	0.000
17	0.850	2.789	102.370	102.393	1.433	3.630	1.400	0.000
18	0.900	2.953	133.930	133.948	4.192	2.900	3.130	0.000
19	0.950	3.117	213.170	213.177	3.117	1.160	1.462	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	304.450	304.464	4.078	2.300	1.339	0.000
21	1.050	3.445	281.210	281.237	6.390	4.380	2.272	0.000
22	1.100	3.609	241.540	241.560	5.157	3.140	2.135	0.000
23	1.150	3.773	200.270	200.299	3.204	4.580	1.600	0.000
24	1.200	3.937	142.350	142.356	2.622	1.010	1.842	0.000
25	1.250	4.101	104.330	104.339	1.849	1.470	1.772	0.000
26	1.300	4.265	100.080	100.090	2.863	1.560	2.860	0.000
27	1.350	4.429	87.520	87.535	4.955	2.350	5.661	0.000
28	1.400	4.593	97.900	97.906	3.380	0.900	3.452	0.000
29	1.450	4.757	324.570	324.576	0.000	1.010	0.000	0.000
30	1.500	4.921	392.630	392.631	0.000	0.190	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221572
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-9-4
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-05-2014
CPT Time:	10:46
CPT File:	13-53075_GP9-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722182.760
Northing / Lat:	4294329.330
Elevation:	143.570
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	265.820	265.829	0.003	1.480	0.001	39.400
2	0.100	0.328	276.910	276.922	0.001	1.950	0.000	42.500
3	0.150	0.492	378.410	378.424	0.001	2.240	0.000	46.700
4	0.200	0.656	233.200	233.214	0.001	2.190	0.000	52.400
5	0.250	0.820	144.620	144.637	0.002	2.690	0.001	66.300
6	0.300	0.984	69.720	69.739	0.001	3.030	0.001	75.800
7	0.350	1.148	37.080	37.097	0.001	2.710	0.003	78.000
8	0.400	1.312	30.750	30.767	0.002	2.690	0.007	84.800
9	0.450	1.476	27.280	27.296	0.004	2.490	0.015	84.200
10	0.500	1.640	30.570	30.586	0.003	2.640	0.010	85.700
11	0.550	1.804	33.370	33.387	0.002	2.700	0.006	85.400
12	0.600	1.968	37.780	37.797	0.006	2.750	0.016	87.000
13	0.650	2.133	42.370	42.388	0.003	2.830	0.007	93.700
14	0.700	2.297	36.470	36.486	0.004	2.540	0.011	82.200
15	0.750	2.461	24.740	24.756	0.006	2.570	0.024	76.600
16	0.800	2.625	19.900	19.916	0.007	2.510	0.035	80.500
17	0.850	2.789	16.280	16.295	0.006	2.450	0.037	91.800
18	0.900	2.953	14.120	14.134	0.007	2.250	0.050	77.600
19	0.950	3.117	10.480	10.493	0.006	2.090	0.057	64.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	6.250	6.264	0.006	2.250	0.096	67.100
21	1.050	3.445	11.420	11.435	0.013	2.350	0.114	61.700
22	1.100	3.609	10.980	10.996	0.009	2.490	0.082	63.700
23	1.150	3.773	12.320	12.334	0.007	2.290	0.057	50.600
24	1.200	3.937	21.370	21.386	0.006	2.590	0.028	45.700
25	1.250	4.101	9.990	10.005	0.007	2.360	0.070	31.700
26	1.300	4.265	10.910	10.926	0.008	2.590	0.073	35.000
27	1.350	4.429	42.990	43.008	0.005	2.940	0.012	29.900
28	1.400	4.593	112.810	112.828	0.006	2.820	0.005	26.600
29	1.450	4.757	134.330	134.353	0.008	3.650	0.006	19.300
30	1.500	4.921	157.840	157.867	0.571	4.260	0.362	15.300
31	1.550	5.085	144.070	144.102	0.922	5.180	0.640	19.800
32	1.600	5.249	45.320	45.337	0.906	2.790	1.998	19.900
33	1.650	5.413	16.880	16.899	0.631	2.980	3.734	16.400
34	1.700	5.577	42.810	42.825	0.470	2.480	1.097	21.500
35	1.750	5.741	60.160	60.177	0.635	2.650	1.055	22.600
36	1.800	5.905	16.600	16.618	0.542	2.810	3.262	23.100
37	1.850	6.069	29.700	29.716	0.487	2.530	1.639	35.400
38	1.900	6.234	28.580	28.597	0.301	2.670	1.053	39.600
39	1.950	6.398	21.070	21.084	0.256	2.190	1.214	52.500
40	2.000	6.562	9.180	9.196	0.178	2.510	1.936	46.200
41	2.050	6.726	9.810	9.826	0.025	2.520	0.254	68.700
42	2.100	6.890	21.580	21.596	0.019	2.500	0.088	48.800
43	2.150	7.054	6.040	6.059	0.029	3.010	0.479	49.800
44	2.200	7.218	12.690	12.707	0.112	2.680	0.881	68.900
45	2.250	7.382	13.210	13.228	0.127	2.890	0.960	71.600
46	2.300	7.546	14.360	14.378	0.350	2.820	2.434	74.100
47	2.350	7.710	13.760	13.752	0.197	-1.270	1.433	72.800
48	2.400	7.874	26.820	26.810	0.356	-1.540	1.328	72.500
49	2.450	8.038	74.170	74.164	0.769	-1.040	1.037	75.400
50	2.500	8.202	45.150	45.147	0.572	-0.460	1.267	60.700
51	2.550	8.366	80.010	80.008	0.812	-0.320	1.015	59.600
52	2.600	8.530	52.550	52.558	0.711	1.240	1.353	55.800
53	2.650	8.694	46.450	46.456	0.817	0.910	1.759	40.900
54	2.700	8.858	29.710	29.720	0.650	1.600	2.187	38.600
55	2.750	9.022	34.860	34.870	0.633	1.660	1.815	27.000
56	2.800	9.186	19.950	19.964	0.247	2.260	1.237	27.000
57	2.850	9.350	30.360	30.371	0.905	1.820	2.980	21.000
58	2.900	9.514	89.330	89.341	0.922	1.750	1.032	24.800
59	2.950	9.678	15.890	15.903	0.909	2.060	5.716	27.700
60	3.000	9.842	14.770	14.783	0.537	2.130	3.632	29.200
61	3.050	10.006	12.890	12.897	0.619	1.200	4.799	20.700
62	3.100	10.170	32.100	32.109	0.860	1.370	2.678	28.300
63	3.150	10.335	48.470	48.480	0.477	1.580	0.984	30.100
64	3.200	10.499	81.120	81.128	0.630	1.360	0.777	29.300
65	3.250	10.663	86.340	86.349	0.791	1.500	0.916	22.400
66	3.300	10.827	90.300	90.308	1.562	1.240	1.730	22.900
67	3.350	10.991	47.440	47.448	2.114	1.310	4.455	29.600
68	3.400	11.155	58.610	58.616	2.235	0.940	3.813	21.600
69	3.450	11.319	49.430	49.439	1.013	1.430	2.049	23.500
70	3.500	11.483	40.080	40.090	0.934	1.580	2.330	25.100
71	3.550	11.647	69.760	69.770	1.184	1.550	1.697	22.000
72	3.600	11.811	47.200	47.263	1.240	10.160	2.624	21.500
73	3.650	11.975	20.630	20.693	1.039	10.120	5.021	23.900
74	3.700	12.139	17.960	18.014	0.263	8.700	1.460	22.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	14.780	14.829	0.263	7.780	1.774	28.700
76	3.800	12.467	16.300	16.345	0.280	7.200	1.713	34.100
77	3.850	12.631	11.010	11.055	0.653	7.220	5.907	31.800
78	3.900	12.795	10.680	10.721	0.204	6.610	1.903	38.000
79	3.950	12.959	89.410	89.448	0.965	6.120	1.079	38.900
80	4.000	13.123	133.070	133.109	1.989	6.170	1.494	36.000
81	4.050	13.287	99.840	99.871	3.064	5.040	3.068	37.100
82	4.100	13.451	52.990	53.022	1.864	5.100	3.516	34.600
83	4.150	13.615	91.790	91.814	1.345	3.880	1.465	37.400
84	4.200	13.779	95.420	95.442	1.432	3.530	1.500	44.100
85	4.250	13.943	125.080	125.098	4.228	2.860	3.380	29.900
86	4.300	14.107	177.830	177.850	1.359	3.170	0.764	23.900
87	4.350	14.271	177.530	177.542	1.730	1.910	0.974	31.100
88	4.400	14.436	153.330	153.346	3.132	2.560	2.042	37.600
89	4.450	14.600	46.810	46.825	2.550	2.440	5.446	27.700
90	4.500	14.764	84.360	84.371	1.086	1.740	1.287	40.900
91	4.550	14.928	30.400	30.417	4.546	2.690	14.946	43.300
92	4.600	15.092	65.320	65.342	3.317	3.480	5.076	35.600
93	4.650	15.256	109.930	109.940	1.361	1.620	1.238	35.200
94	4.700	15.420	50.580	50.594	2.920	2.200	5.771	40.900
95	4.750	15.584	80.200	80.217	3.234	2.700	4.032	51.500
96	4.800	15.748	48.670	48.684	3.081	2.300	6.329	53.500
97	4.850	15.912	86.530	86.538	2.019	1.260	2.333	65.200
98	4.900	16.076	97.070	97.080	1.701	1.620	1.752	62.700
99	4.950	16.240	66.720	66.730	1.949	1.620	2.921	77.400
100	5.000	16.404	31.010	31.037	2.115	4.380	6.814	74.300
101	5.050	16.568	44.920	44.944	1.152	3.890	2.563	73.600
102	5.100	16.732	43.220	43.252	1.259	5.120	2.911	68.000
103	5.150	16.896	49.050	49.083	1.561	5.240	3.180	67.500
104	5.200	17.060	61.590	61.621	1.731	4.970	2.809	77.400
105	5.250	17.224	53.750	53.782	1.750	5.200	3.254	69.600
106	5.300	17.388	57.560	57.601	1.582	6.580	2.746	69.000
107	5.350	17.552	68.700	68.742	1.733	6.750	2.521	73.500
108	5.400	17.716	78.350	78.392	1.972	6.700	2.516	73.500
109	5.450	17.880	60.680	60.713	1.903	5.350	3.134	86.100
110	5.500	18.044	46.140	46.170	1.108	4.780	2.400	92.800
111	5.550	18.208	43.020	43.051	1.236	4.950	2.871	76.700
112	5.600	18.372	48.230	48.284	1.536	8.620	3.181	85.700
113	5.650	18.537	72.060	72.120	2.209	9.580	3.063	76.200
114	5.700	18.701	83.780	83.842	2.620	9.860	3.125	60.800
115	5.750	18.865	87.800	87.855	2.627	8.880	2.990	67.400
116	5.800	19.029	81.750	81.808	2.816	9.220	3.442	50.400
117	5.850	19.193	72.220	72.276	2.571	8.900	3.557	46.400
118	5.900	19.357	85.010	85.066	2.826	9.050	3.322	44.600
119	5.950	19.521	93.030	93.083	2.885	8.480	3.099	47.700
120	6.000	19.685	83.480	83.536	2.752	9.050	3.294	55.700
121	6.050	19.849	79.390	79.448	2.546	9.300	3.205	52.700
122	6.100	20.013	84.650	84.709	2.181	9.390	2.575	60.600
123	6.150	20.177	94.440	94.496	3.037	8.910	3.214	67.200
124	6.200	20.341	105.430	105.482	2.533	8.320	2.401	63.000
125	6.250	20.505	60.990	61.037	2.159	7.510	3.537	59.900
126	6.300	20.669	38.000	38.047	1.990	7.510	5.230	59.700
127	6.350	20.833	46.000	46.042	1.950	6.660	4.235	61.400
128	6.400	20.997	55.770	55.806	1.501	5.710	2.690	53.900
129	6.450	21.161	43.930	43.960	1.815	4.820	4.129	41.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	56.550	56.573	1.273	3.740	2.250	30.300
131	6.550	21.489	65.940	65.960	1.305	3.250	1.978	24.500
132	6.600	21.653	78.090	78.103	2.020	2.070	2.586	30.900
133	6.650	21.817	89.430	89.450	2.071	3.220	2.315	23.300
134	6.700	21.981	50.830	50.849	1.743	3.040	3.428	30.800
135	6.750	22.145	61.040	61.064	1.712	3.810	2.804	20.200
136	6.800	22.309	36.930	36.952	1.659	3.530	4.490	27.400
137	6.850	22.473	39.930	39.960	1.536	4.850	3.844	41.100
138	6.900	22.638	66.140	66.179	1.369	6.200	2.069	37.600
139	6.950	22.802	34.440	34.472	1.273	5.140	3.693	50.800
140	7.000	22.966	16.400	16.432	0.935	5.130	5.690	56.800
141	7.050	23.130	14.860	14.897	0.673	5.890	4.518	58.800
142	7.100	23.294	16.010	16.050	0.605	6.450	3.769	51.300
143	7.150	23.458	24.530	24.572	0.818	6.740	3.329	44.000
144	7.200	23.622	41.540	41.589	0.984	7.780	2.366	32.700
145	7.250	23.786	46.610	46.641	1.218	4.900	2.611	38.800
146	7.300	23.950	37.820	37.853	1.146	5.290	3.027	55.100
147	7.350	24.114	21.850	21.876	0.979	4.220	4.475	37.700
148	7.400	24.278	26.100	26.132	0.973	5.170	3.723	41.400
149	7.450	24.442	40.090	40.118	0.995	4.430	2.480	41.300
150	7.500	24.606	51.550	51.574	0.851	3.920	1.650	49.400
151	7.550	24.770	79.520	79.544	0.496	3.800	0.624	57.800
152	7.600	24.934	87.650	87.667	0.582	2.660	0.664	56.700
153	7.650	25.098	50.940	50.956	0.616	2.500	1.209	71.100
154	7.700	25.262	55.730	55.749	0.537	3.080	0.963	83.300
155	7.750	25.426	70.060	70.078	0.360	2.880	0.514	67.800
156	7.800	25.590	75.230	75.245	0.395	2.450	0.525	74.400
157	7.850	25.754	65.140	65.153	0.418	2.120	0.642	62.700
158	7.900	25.918	58.830	58.844	0.405	2.210	0.688	62.500
159	7.950	26.082	44.750	44.763	0.274	2.060	0.612	83.200
160	8.000	26.246	36.120	36.134	0.246	2.220	0.681	70.400
161	8.050	26.410	29.590	29.605	0.216	2.440	0.730	60.700
162	8.100	26.574	32.400	32.413	0.485	2.100	1.496	39.800
163	8.150	26.739	47.170	47.183	0.424	2.020	0.899	34.700
164	8.200	26.903	87.300	87.315	0.773	2.340	0.885	38.500
165	8.250	27.067	123.220	123.243	1.076	3.680	0.873	26.700
166	8.300	27.231	70.880	70.915	1.580	5.670	2.228	33.400
167	8.350	27.395	89.870	89.891	2.472	3.360	2.750	30.000
168	8.400	27.559	100.450	100.476	2.349	4.220	2.338	30.100
169	8.450	27.723	74.610	74.637	2.466	4.260	3.304	34.800
170	8.500	27.887	80.010	80.033	1.978	3.660	2.471	27.600
171	8.550	28.051	52.380	52.405	1.026	4.020	1.958	25.000
172	8.600	28.215	90.650	90.673	0.550	3.760	0.607	25.400
173	8.650	28.379	73.280	73.302	1.249	3.560	1.704	25.200
174	8.700	28.543	69.730	69.754	1.712	3.920	2.454	20.600
175	8.750	28.707	34.450	34.466	1.832	2.590	5.315	17.800
176	8.800	28.871	19.130	19.147	1.287	2.740	6.722	21.700
177	8.850	29.035	24.210	24.235	1.100	3.930	4.539	29.500
178	8.900	29.199	46.900	46.925	1.376	4.000	2.932	30.300
179	8.950	29.363	32.430	32.454	1.584	3.780	4.881	31.300
180	9.000	29.527	18.610	18.632	1.433	3.540	7.691	29.200
181	9.050	29.691	20.020	20.042	1.247	3.500	6.222	18.600
182	9.100	29.855	12.700	12.724	0.475	3.790	3.733	15.900
183	9.150	30.019	67.350	67.372	1.026	3.590	1.523	17.400
184	9.200	30.183	69.740	69.760	1.180	3.260	1.692	16.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	36.280	36.304	1.631	3.880	4.493	18.700
186	9.300	30.511	49.340	49.365	1.146	3.990	2.321	19.200
187	9.350	30.675	25.640	25.661	1.113	3.440	4.337	17.700
188	9.400	30.840	40.090	40.111	1.055	3.440	2.630	24.600
189	9.450	31.004	27.610	27.629	0.862	3.110	3.120	24.400
190	9.500	31.168	27.710	27.726	0.771	2.620	2.781	31.700
191	9.550	31.332	14.090	14.112	0.683	3.460	4.840	36.300
192	9.600	31.496	10.360	10.388	0.601	4.520	5.785	40.000
193	9.650	31.660	14.950	14.979	0.506	4.650	3.378	32.300
194	9.700	31.824	13.420	13.452	0.507	5.060	3.769	27.700
195	9.750	31.988	19.570	19.598	0.664	4.510	3.388	27.600
196	9.800	32.152	109.120	109.142	1.252	3.500	1.147	26.600
197	9.850	32.316	86.280	86.314	1.553	5.390	1.799	26.500
198	9.900	32.480	49.090	49.118	1.319	4.470	2.685	32.600
199	9.950	32.644	16.850	16.871	1.097	3.350	6.502	29.900
200	10.000	32.808	17.850	17.870	0.658	3.140	3.682	33.100
201	10.050	32.972	19.820	19.843	0.854	3.760	4.304	29.100
202	10.100	33.136	23.150	23.175	0.739	3.980	3.189	33.500
203	10.150	33.300	17.660	17.704	0.909	6.990	5.135	29.700
204	10.200	33.464	26.180	26.211	1.072	5.020	4.090	23.100
205	10.250	33.628	31.510	31.544	1.325	5.410	4.201	23.200
206	10.300	33.792	24.820	24.862	1.122	6.750	4.513	12.500
207	10.350	33.956	13.600	13.642	1.104	6.660	8.093	19.100
208	10.400	34.120	35.170	35.208	1.036	6.020	2.943	15.400
209	10.450	34.284	31.650	31.696	1.219	7.420	3.846	11.100
210	10.500	34.448	27.950	27.994	1.148	7.060	4.101	13.900
211	10.550	34.612	21.620	21.664	0.928	7.110	4.284	16.600
212	10.600	34.776	15.910	15.942	0.737	5.070	4.623	14.000
213	10.650	34.941	43.220	43.251	0.968	4.900	2.238	20.000
214	10.700	35.105	29.470	29.504	1.037	5.370	3.515	22.900
215	10.750	35.269	26.550	26.597	1.144	7.540	4.301	16.600
216	10.800	35.433	34.470	34.510	1.079	6.460	3.127	13.300
217	10.850	35.597	27.950	27.994	1.154	7.080	4.122	15.000
218	10.900	35.761	31.620	31.661	1.175	6.560	3.711	11.300
219	10.950	35.925	54.390	54.429	1.023	6.230	1.880	9.600
220	11.000	36.089	49.010	49.045	0.816	5.560	1.664	16.800
221	11.050	36.253	21.830	21.861	0.983	4.970	4.497	20.200
222	11.100	36.417	26.330	26.359	0.984	4.610	3.733	22.700
223	11.150	36.581	37.510	37.543	1.029	5.270	2.741	29.700
224	11.200	36.745	51.640	51.678	1.051	6.070	2.034	30.000
225	11.250	36.909	49.500	49.530	1.167	4.800	2.356	48.500
226	11.300	37.073	38.120	38.150	1.057	4.760	2.771	70.100
227	11.350	37.237	36.170	36.206	0.967	5.750	2.671	76.100
228	11.400	37.401	25.040	25.089	0.892	7.900	3.555	70.000
229	11.450	37.565	19.850	19.908	0.774	9.230	3.888	65.500
230	11.500	37.729	22.120	22.186	0.915	10.630	4.124	52.600
231	11.550	37.893	20.260	20.331	1.019	11.390	5.012	39.700
232	11.600	38.057	33.370	33.442	1.012	11.510	3.026	38.100
233	11.650	38.221	28.550	28.614	1.359	10.220	4.749	28.900
234	11.700	38.385	34.090	34.144	1.627	8.610	4.765	20.800
235	11.750	38.549	34.840	34.892	1.215	8.290	3.482	17.300
236	11.800	38.713	37.010	37.062	1.117	8.280	3.014	16.000
237	11.850	38.877	32.250	32.298	0.928	7.620	2.873	21.500
238	11.900	39.042	30.060	30.099	0.874	6.290	2.904	16.300
239	11.950	39.206	32.360	32.397	0.921	5.930	2.843	12.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	45.510	45.550	1.339	6.470	2.940	9.000
241	12.050	39.534	39.660	39.705	1.595	7.150	4.017	15.400
242	12.100	39.698	44.320	44.365	2.058	7.200	4.639	13.800
243	12.150	39.862	62.610	62.672	2.067	9.910	3.298	11.900
244	12.200	40.026	76.680	76.847	1.597	26.780	2.078	16.100
245	12.250	40.190	5.340	5.447	1.210	17.220	22.212	24.900
246	12.300	40.354	2.940	3.013	0.561	11.620	18.622	29.500
247	12.350	40.518	61.310	61.370	0.838	9.620	1.365	34.000
248	12.400	40.682	102.790	102.846	1.329	9.000	1.292	53.800
249	12.450	40.846	58.490	58.549	1.551	9.440	2.649	64.500
250	12.500	41.010	41.660	41.702	1.637	6.690	3.925	68.400
251	12.550	41.174	40.190	40.248	1.289	9.310	3.203	85.600
252	12.600	41.338	48.470	48.532	1.161	9.920	2.392	81.600
253	12.650	41.502	49.910	49.970	1.252	9.560	2.506	85.700
254	12.700	41.666	40.680	40.737	1.146	9.190	2.813	77.100
255	12.750	41.830	30.370	30.429	0.848	9.410	2.787	74.800
256	12.800	41.994	58.010	58.070	1.024	9.680	1.763	71.500
257	12.850	42.158	49.760	49.820	1.056	9.580	2.120	74.700
258	12.900	42.322	36.330	36.389	0.967	9.510	2.657	77.900
259	12.950	42.486	33.790	33.851	0.807	9.780	2.384	61.500
260	13.000	42.650	35.660	35.720	0.658	9.600	1.842	48.600
261	13.050	42.814	25.910	25.970	1.015	9.600	3.908	44.200
262	13.100	42.978	34.840	34.899	1.784	9.400	5.112	34.500
263	13.150	43.143	77.620	77.677	2.035	9.200	2.620	22.900
264	13.200	43.307	33.680	33.729	2.265	7.910	6.715	20.500
265	13.250	43.471	22.890	22.934	1.457	7.090	6.353	23.200
266	13.300	43.635	5.560	5.599	0.624	6.260	11.145	11.000
267	13.350	43.799	29.560	29.599	0.932	6.320	3.149	19.500
268	13.400	43.963	23.000	23.036	0.860	5.750	3.733	17.200
269	13.450	44.127	41.820	41.852	1.380	5.090	3.297	11.000
270	13.500	44.291	92.470	92.509	2.619	6.240	2.831	13.500
271	13.550	44.455	127.800	127.833	3.618	5.340	2.830	18.700
272	13.600	44.619	87.600	87.640	3.781	6.370	4.314	13.100
273	13.650	44.783	75.000	75.055	3.581	8.780	4.771	19.100
274	13.700	44.947	53.790	53.844	2.709	8.580	5.031	13.300
275	13.750	45.111	52.130	52.182	2.368	8.300	4.538	18.300
276	13.800	45.275	71.960	72.006	2.055	7.410	2.854	14.100
277	13.850	45.439	36.560	36.606	2.498	7.430	6.824	14.700
278	13.900	45.603	18.090	18.133	2.419	6.830	13.341	16.500
279	13.950	45.767	72.180	72.230	1.699	8.070	2.352	20.500
280	14.000	45.931	39.080	39.127	1.468	7.490	3.752	21.000
281	14.050	46.095	32.890	32.934	1.715	7.080	5.207	28.100
282	14.100	46.259	44.450	44.489	1.065	6.250	2.394	43.200
283	14.150	46.423	83.020	83.046	0.920	4.240	1.108	51.100
284	14.200	46.587	107.280	107.317	0.771	5.990	0.718	60.200
285	14.250	46.751	119.130	119.171	0.903	6.610	0.758	57.000
286	14.300	46.915	121.380	121.421	1.060	6.590	0.873	55.900
287	14.350	47.079	116.700	116.739	1.305	6.170	1.118	60.100
288	14.400	47.244	134.580	134.623	1.168	6.950	0.868	57.600
289	14.450	47.408	148.380	148.423	1.216	6.850	0.819	52.000
290	14.500	47.572	178.410	178.453	1.311	6.900	0.735	56.600
291	14.550	47.736	199.190	199.234	1.494	7.000	0.750	59.600
292	14.600	47.900	215.940	215.988	1.785	7.680	0.826	58.100
293	14.650	48.064	265.830	265.877	2.217	7.540	0.834	59.100
294	14.700	48.228	283.050	283.097	2.441	7.590	0.862	52.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	276.410	276.458	2.542	7.690	0.919	52.500
296	14.800	48.556	273.310	273.359	2.583	7.890	0.945	55.600
297	14.850	48.720	258.600	258.651	2.599	8.110	1.005	57.900
298	14.900	48.884	237.050	237.101	2.575	8.160	1.086	58.700
299	14.950	49.048	209.640	209.690	2.495	8.060	1.190	54.900
300	15.000	49.212	183.670	183.719	2.322	7.910	1.264	61.500
301	15.050	49.376	154.700	154.751	1.986	8.100	1.283	52.800
302	15.100	49.540	142.600	142.652	1.638	8.270	1.148	61.400
303	15.150	49.704	145.000	145.051	1.475	8.220	1.017	68.200
304	15.200	49.868	150.340	150.393	1.490	8.480	0.991	53.500
305	15.250	50.032	145.320	145.373	1.420	8.520	0.977	59.100
306	15.300	50.196	136.200	136.254	1.287	8.580	0.945	0.000
307	15.350	50.360	129.450	129.504	1.164	8.650	0.899	0.000
308	15.400	50.524	124.680	124.734	1.108	8.610	0.888	0.000
309	15.450	50.688	120.340	120.392	1.020	8.400	0.847	0.000
310	15.500	50.852	129.480	129.534	1.020	8.610	0.787	0.000
311	15.550	51.016	151.380	151.433	0.994	8.520	0.656	0.000
312	15.600	51.180	154.530	154.580	0.919	8.080	0.595	0.000
313	15.650	51.345	166.270	166.320	0.859	7.960	0.516	0.000
314	15.700	51.509	166.160	166.209	1.005	7.840	0.605	0.000
315	15.750	51.673	159.280	159.329	1.204	7.890	0.756	0.000
316	15.800	51.837	146.000	146.048	1.418	7.670	0.971	0.000
317	15.850	52.001	164.650	164.699	1.682	7.860	1.021	0.000
318	15.900	52.165	174.150	174.200	1.594	8.030	0.915	0.000
319	15.950	52.329	183.740	183.788	1.563	7.660	0.850	0.000
320	16.000	52.493	231.470	231.518	0.000	7.750	0.000	0.000
321	16.050	52.657	300.530	300.577	0.000	7.450	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221574
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-10-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-19-2013
CPT Time:	16:02
CPT File:	13-53075_GP10-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722189.922
Northing / Lat:	4294352.974
Elevation:	143.472
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	19.280	19.282	0.049	0.390	0.254	34.500
2	0.100	0.328	63.270	63.272	0.154	0.250	0.243	43.400
3	0.150	0.492	66.130	66.134	0.228	0.670	0.345	46.600
4	0.200	0.656	70.980	70.984	0.761	0.680	1.072	48.700
5	0.250	0.820	53.030	53.036	0.826	1.030	1.557	81.400
6	0.300	0.984	19.870	19.885	0.873	2.350	4.390	27.200
7	0.350	1.148	23.710	23.724	0.752	2.320	3.170	10.000
8	0.400	1.312	52.160	52.175	0.855	2.360	1.639	98.400
9	0.450	1.476	69.390	69.398	1.186	1.330	1.709	93.300
10	0.500	1.640	82.400	82.408	1.498	1.220	1.818	113.800
11	0.550	1.804	94.840	94.845	1.663	0.830	1.753	110.200
12	0.600	1.968	109.860	109.865	1.769	0.740	1.610	27.800
13	0.650	2.133	110.010	110.012	1.899	0.360	1.726	86.200
14	0.700	2.297	88.610	88.611	1.817	0.150	2.051	94.300
15	0.750	2.461	68.030	68.029	1.494	-0.200	2.196	110.400
16	0.800	2.625	56.900	56.897	1.243	-0.490	2.185	112.100
17	0.850	2.789	74.060	74.057	1.200	-0.450	1.620	90.000
18	0.900	2.953	90.890	90.889	1.289	-0.190	1.418	90.300
19	0.950	3.117	52.570	52.571	1.310	0.150	2.492	89.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	33.620	33.623	1.126	0.550	3.349	84.700
21	1.050	3.445	35.850	35.851	0.882	0.160	2.460	94.300
22	1.100	3.609	36.100	36.091	0.611	-1.390	1.693	69.400
23	1.150	3.773	29.810	29.789	0.841	-3.400	2.823	62.300
24	1.200	3.937	23.070	23.050	1.015	-3.230	4.404	48.700
25	1.250	4.101	48.730	48.730	0.939	0.000	1.927	47.000
26	1.300	4.265	53.740	53.746	1.396	0.970	2.597	35.900
27	1.350	4.429	40.770	40.773	1.143	0.530	2.803	31.700
28	1.400	4.593	9.480	9.479	1.491	-0.100	15.729	33.300
29	1.450	4.757	21.040	21.040	1.406	-0.080	6.683	21.300
30	1.500	4.921	16.870	16.871	0.418	0.170	2.478	26.000
31	1.550	5.085	13.420	13.419	0.522	-0.100	3.890	31.400
32	1.600	5.249	29.790	29.789	0.379	-0.150	1.272	37.300
33	1.650	5.413	20.520	20.522	0.491	0.360	2.393	52.800
34	1.700	5.577	10.460	10.460	0.364	-0.030	3.480	56.100
35	1.750	5.741	13.790	13.800	0.365	1.590	2.645	73.000
36	1.800	5.905	18.280	18.318	0.378	6.070	2.064	91.200
37	1.850	6.069	14.410	14.380	0.393	-4.740	2.733	98.300
38	1.900	6.234	10.110	10.049	0.374	-9.780	3.722	104.700
39	1.950	6.398	13.520	13.458	0.417	-9.920	3.099	110.700
40	2.000	6.562	15.890	15.827	0.244	-10.070	1.542	85.900
41	2.050	6.726	31.610	31.544	0.328	-10.630	1.040	64.200
42	2.100	6.890	19.610	19.611	0.310	0.160	1.581	52.300
43	2.150	7.054	23.390	23.389	0.396	-0.180	1.693	40.400
44	2.200	7.218	22.650	22.653	0.236	0.440	1.042	40.800
45	2.250	7.382	9.570	9.573	0.304	0.550	3.175	42.000
46	2.300	7.546	7.470	7.466	0.792	-0.570	10.607	31.000
47	2.350	7.710	21.170	21.167	0.951	-0.410	4.493	31.100
48	2.400	7.874	68.150	68.150	1.128	-0.070	1.655	26.200
49	2.450	8.038	16.010	16.012	0.891	0.350	5.565	35.900
50	2.500	8.202	9.810	9.811	0.733	0.160	7.471	36.700
51	2.550	8.366	12.770	12.767	0.135	-0.420	1.057	51.100
52	2.600	8.530	10.440	10.440	0.166	-0.050	1.590	54.200
53	2.650	8.694	17.560	17.570	0.226	1.580	1.286	61.400
54	2.700	8.858	6.740	6.738	0.201	-0.250	2.983	63.700
55	2.750	9.022	8.230	8.236	0.218	1.010	2.647	60.600
56	2.800	9.186	9.340	9.333	0.170	-1.100	1.821	66.800
57	2.850	9.350	28.280	28.271	0.287	-1.450	1.015	63.700
58	2.900	9.514	35.530	35.528	0.684	-0.300	1.925	67.200
59	2.950	9.678	27.550	27.552	0.704	0.260	2.555	74.800
60	3.000	9.842	32.110	32.114	0.766	0.700	2.385	75.500
61	3.050	10.006	41.800	41.802	0.929	0.350	2.222	81.500
62	3.100	10.170	42.300	42.297	1.104	-0.460	2.610	90.000
63	3.150	10.335	32.730	32.730	1.284	0.040	3.923	101.500
64	3.200	10.499	33.470	33.436	1.264	-5.500	3.780	92.400
65	3.250	10.663	45.660	45.627	1.416	-5.250	3.103	87.000
66	3.300	10.827	69.210	69.175	1.638	-5.600	2.368	79.700
67	3.350	10.991	68.180	68.141	1.752	-6.310	2.571	91.800
68	3.400	11.155	48.330	48.285	1.920	-7.260	3.976	90.400
69	3.450	11.319	34.490	34.439	1.836	-8.180	5.331	90.100
70	3.500	11.483	24.320	24.255	1.543	-10.470	6.362	108.200
71	3.550	11.647	21.870	21.803	1.289	-10.770	5.912	91.400
72	3.600	11.811	22.600	22.532	1.213	-10.910	5.383	91.100
73	3.650	11.975	26.740	26.671	1.448	-11.130	5.429	79.600
74	3.700	12.139	54.880	54.877	1.651	-0.440	3.009	75.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	53.830	53.827	1.647	-0.470	3.060	79.800
76	3.800	12.467	42.750	42.747	1.634	-0.500	3.823	82.600
77	3.850	12.631	37.460	37.459	1.491	-0.110	3.980	79.900
78	3.900	12.795	47.400	47.400	1.585	0.050	3.344	73.700
79	3.950	12.959	44.990	44.987	1.818	-0.460	4.041	60.200
80	4.000	13.123	35.880	35.873	1.785	-1.060	4.976	56.200
81	4.050	13.287	60.880	60.873	1.822	-1.050	2.993	36.500
82	4.100	13.451	74.940	74.941	1.985	0.200	2.649	33.600
83	4.150	13.615	70.940	70.947	2.477	1.050	3.491	35.300
84	4.200	13.779	73.220	73.222	2.763	0.320	3.773	32.500
85	4.250	13.943	59.550	59.554	4.386	0.720	7.365	30.000
86	4.300	14.107	96.420	96.424	5.164	0.670	5.356	42.600
87	4.350	14.271	223.420	223.429	3.181	1.380	1.424	42.100
88	4.400	14.436	99.580	99.594	2.925	2.300	2.937	53.200
89	4.450	14.600	125.950	125.951	3.247	0.210	2.578	66.800
90	4.500	14.764	69.090	69.091	2.004	0.150	2.901	81.500
91	4.550	14.928	29.240	29.254	1.179	2.300	4.030	78.100
92	4.600	15.092	14.530	14.544	0.597	2.170	4.105	84.400
93	4.650	15.256	15.730	15.742	0.595	1.990	3.780	109.300
94	4.700	15.420	18.070	18.072	0.636	0.290	3.519	78.000
95	4.750	15.584	21.870	21.873	0.603	0.440	2.757	85.100
96	4.800	15.748	15.700	15.699	0.636	-0.190	4.051	82.100
97	4.850	15.912	13.300	13.313	0.551	2.030	4.139	67.800
98	4.900	16.076	21.200	21.215	0.505	2.470	2.380	59.400
99	4.950	16.240	32.690	32.708	0.487	2.810	1.489	53.500
100	5.000	16.404	38.950	38.951	0.732	0.200	1.879	56.800
101	5.050	16.568	39.760	39.757	0.829	-0.430	2.085	60.100
102	5.100	16.732	21.440	21.449	0.687	1.420	3.203	55.200
103	5.150	16.896	20.560	20.561	0.531	0.180	2.583	58.000
104	5.200	17.060	27.840	27.838	0.485	-0.280	1.742	49.600
105	5.250	17.224	27.240	27.235	0.607	-0.750	2.229	44.800
106	5.300	17.388	23.820	23.830	0.641	1.610	2.690	41.200
107	5.350	17.552	23.810	23.809	0.729	-0.140	3.062	39.300
108	5.400	17.716	29.690	29.702	0.616	1.970	2.074	34.000
109	5.450	17.880	37.050	37.059	0.568	1.400	1.533	27.500
110	5.500	18.044	34.340	34.347	0.491	1.050	1.430	21.000
111	5.550	18.208	36.320	36.323	0.567	0.510	1.561	22.500
112	5.600	18.372	36.790	36.793	0.767	0.530	2.085	21.000
113	5.650	18.537	49.570	49.574	1.589	0.630	3.205	20.200
114	5.700	18.701	86.680	86.682	1.543	0.390	1.780	18.400
115	5.750	18.865	77.420	77.431	2.619	1.780	3.382	28.800
116	5.800	19.029	84.260	84.262	2.126	0.250	2.523	29.600
117	5.850	19.193	45.920	45.944	1.631	3.910	3.550	36.600
118	5.900	19.357	67.130	67.149	1.213	3.090	1.806	38.400
119	5.950	19.521	54.170	54.181	0.944	1.790	1.742	43.600
120	6.000	19.685	39.080	39.095	0.877	2.370	2.243	53.900
121	6.050	19.849	43.490	43.497	0.694	1.130	1.596	41.900
122	6.100	20.013	41.330	41.342	0.707	1.980	1.710	38.700
123	6.150	20.177	32.700	32.710	0.667	1.570	2.039	29.200
124	6.200	20.341	32.820	32.829	0.717	1.490	2.184	20.300
125	6.250	20.505	29.890	29.916	0.765	4.130	2.557	27.400
126	6.300	20.669	25.700	25.716	0.793	2.560	3.084	24.100
127	6.350	20.833	20.920	20.923	0.927	0.480	4.431	18.000
128	6.400	20.997	18.160	18.196	0.822	5.770	4.517	28.500
129	6.450	21.161	16.260	16.289	0.807	4.700	4.954	21.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	15.830	15.848	0.792	2.840	4.998	31.100
131	6.550	21.489	14.160	14.150	0.662	-1.560	4.678	21.900
132	6.600	21.653	26.330	26.324	0.540	-0.940	2.051	34.500
133	6.650	21.817	14.290	14.291	0.731	0.230	5.115	22.900
134	6.700	21.981	18.390	18.398	1.051	1.320	5.713	20.400
135	6.750	22.145	92.750	92.744	1.136	-1.010	1.225	14.800
136	6.800	22.309	72.350	72.344	1.890	-0.940	2.613	17.500
137	6.850	22.473	46.400	46.401	2.075	0.180	4.472	14.600
138	6.900	22.638	38.930	38.942	1.709	1.910	4.389	12.600
139	6.950	22.802	40.090	40.106	1.257	2.520	3.134	12.600
140	7.000	22.966	51.740	51.754	1.315	2.220	2.541	8.600
141	7.050	23.130	50.280	50.278	1.347	-0.360	2.679	6.600
142	7.100	23.294	27.160	27.177	1.326	2.730	4.879	12.300
143	7.150	23.458	21.820	21.817	1.108	-0.560	5.079	8.100
144	7.200	23.622	26.410	26.416	1.087	0.900	4.115	10.500
145	7.250	23.786	39.560	39.560	1.278	-0.050	3.231	11.400
146	7.300	23.950	53.520	53.529	1.802	1.390	3.366	12.700
147	7.350	24.114	56.750	56.761	1.945	1.780	3.427	14.700
148	7.400	24.278	41.370	41.364	1.921	-0.960	4.644	17.400
149	7.450	24.442	50.040	50.051	1.710	1.790	3.417	14.100
150	7.500	24.606	74.440	74.457	1.770	2.750	2.377	27.500
151	7.550	24.770	80.210	80.222	2.038	1.890	2.540	28.500
152	7.600	24.934	72.480	72.497	1.838	2.760	2.535	39.400
153	7.650	25.098	61.250	61.263	1.403	2.130	2.290	42.000
154	7.700	25.262	59.590	59.596	0.984	0.910	1.651	41.000
155	7.750	25.426	67.230	67.234	0.740	0.690	1.101	53.500
156	7.800	25.590	73.490	73.500	1.239	1.550	1.686	40.700
157	7.850	25.754	75.360	75.364	1.493	0.630	1.981	43.500
158	7.900	25.918	73.020	73.025	1.317	0.870	1.803	31.500
159	7.950	26.082	56.630	56.633	1.032	0.530	1.822	31.700
160	8.000	26.246	51.240	51.244	0.858	0.680	1.674	24.800
161	8.050	26.410	45.640	45.641	0.557	0.100	1.220	17.200
162	8.100	26.574	66.900	66.903	0.486	0.480	0.726	29.400
163	8.150	26.739	71.480	71.479	0.591	-0.090	0.827	22.500
164	8.200	26.903	29.540	29.556	1.088	2.640	3.681	31.100
165	8.250	27.067	46.620	46.637	1.466	2.650	3.143	37.200
166	8.300	27.231	39.130	39.147	1.132	2.660	2.892	45.500
167	8.350	27.395	23.530	23.535	0.933	0.850	3.964	50.500
168	8.400	27.559	22.630	22.634	0.649	0.610	2.867	36.700
169	8.450	27.723	32.400	32.404	0.699	0.650	2.157	35.400
170	8.500	27.887	41.620	41.624	0.763	0.570	1.833	27.800
171	8.550	28.051	43.560	43.568	0.826	1.210	1.896	30.000
172	8.600	28.215	45.970	45.975	0.698	0.830	1.518	19.400
173	8.650	28.379	30.860	30.869	0.814	1.440	2.637	23.000
174	8.700	28.543	24.690	24.688	0.730	-0.280	2.957	22.300
175	8.750	28.707	34.640	34.644	1.014	0.640	2.927	21.200
176	8.800	28.871	20.830	20.830	0.814	0.040	3.908	18.500
177	8.850	29.035	30.030	30.028	1.330	-0.390	4.429	18.600
178	8.900	29.199	70.870	70.868	1.276	-0.320	1.801	16.700
179	8.950	29.363	36.640	36.646	1.353	1.010	3.692	16.000
180	9.000	29.527	48.210	48.210	1.048	-0.050	2.174	17.300
181	9.050	29.691	72.280	72.278	1.786	-0.330	2.471	13.500
182	9.100	29.855	81.450	81.476	2.436	4.230	2.990	13.500
183	9.150	30.019	100.810	100.826	2.728	2.520	2.706	21.300
184	9.200	30.183	77.690	77.705	2.661	2.330	3.425	15.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	47.070	47.068	2.672	-0.350	5.677	23.100
186	9.300	30.511	48.250	48.251	1.861	0.240	3.857	21.400
187	9.350	30.675	52.420	52.427	1.419	1.190	2.707	18.800
188	9.400	30.840	20.340	20.344	1.509	0.570	7.418	18.400
189	9.450	31.004	42.070	42.070	0.905	0.010	2.151	33.400
190	9.500	31.168	66.890	66.886	0.799	-0.580	1.195	31.000
191	9.550	31.332	28.710	28.711	0.851	0.190	2.964	37.100
192	9.600	31.496	42.640	42.649	0.578	1.450	1.355	42.200
193	9.650	31.660	48.460	48.459	0.481	-0.220	0.993	40.300
194	9.700	31.824	46.200	46.197	1.566	-0.520	3.390	37.600
195	9.750	31.988	56.470	56.475	2.726	0.730	4.827	32.300
196	9.800	32.152	78.730	78.742	2.794	1.910	3.548	23.700
197	9.850	32.316	102.640	102.651	2.028	1.730	1.976	24.600
198	9.900	32.480	88.420	88.429	1.335	1.510	1.510	24.200
199	9.950	32.644	58.770	58.768	1.460	-0.270	2.484	16.500
200	10.000	32.808	47.880	47.880	1.974	-0.010	4.123	27.500
201	10.050	32.972	31.940	31.940	0.474	-0.060	1.484	30.100
202	10.100	33.136	28.890	28.892	0.259	0.390	0.896	27.800
203	10.150	33.300	38.130	38.128	0.830	-0.340	2.177	29.400
204	10.200	33.464	71.470	71.469	1.255	-0.180	1.756	34.800
205	10.250	33.628	77.590	77.587	2.232	-0.450	2.877	25.300
206	10.300	33.792	92.700	92.699	1.982	-0.100	2.138	29.900
207	10.350	33.956	124.160	124.160	2.236	0.030	1.801	38.400
208	10.400	34.120	64.570	64.566	2.418	-0.620	3.745	36.500
209	10.450	34.284	46.060	46.060	2.060	-0.070	4.472	46.300
210	10.500	34.448	43.410	43.404	1.204	-0.920	2.774	65.200
211	10.550	34.612	51.500	51.496	0.699	-0.600	1.357	54.700
212	10.600	34.776	54.740	54.734	0.379	-0.990	0.692	54.500
213	10.650	34.941	44.350	44.344	0.338	-0.890	0.762	58.600
214	10.700	35.105	36.870	36.865	0.296	-0.850	0.803	53.700
215	10.750	35.269	31.680	31.674	0.263	-0.920	0.830	52.800
216	10.800	35.433	22.590	22.588	0.152	-0.380	0.673	61.600
217	10.850	35.597	16.140	16.138	0.334	-0.310	2.070	48.900
218	10.900	35.761	15.450	15.453	0.353	0.560	2.284	50.700
219	10.950	35.925	10.110	10.109	0.298	-0.120	2.948	61.900
220	11.000	36.089	10.320	10.317	0.254	-0.430	2.462	47.100
221	11.050	36.253	8.720	8.718	0.141	-0.330	1.617	50.400
222	11.100	36.417	7.870	7.867	0.116	-0.460	1.474	52.100
223	11.150	36.581	43.000	42.997	0.943	-0.500	2.193	57.500
224	11.200	36.745	77.730	77.733	1.474	0.550	1.896	55.200
225	11.250	36.909	30.850	30.851	1.697	0.100	5.501	52.800
226	11.300	37.073	32.160	32.158	0.968	-0.310	3.010	62.700
227	11.350	37.237	10.530	10.530	0.596	-0.070	5.660	75.700
228	11.400	37.401	13.340	13.339	0.387	-0.140	2.901	66.700
229	11.450	37.565	15.650	15.649	0.516	-0.120	3.297	79.400
230	11.500	37.729	23.970	23.970	0.619	0.040	2.582	79.300
231	11.550	37.893	49.840	49.840	0.636	-0.010	1.276	73.100
232	11.600	38.057	77.960	77.962	0.637	0.250	0.817	79.000
233	11.650	38.221	103.050	103.053	0.831	0.410	0.806	83.100
234	11.700	38.385	123.180	123.184	1.138	0.580	0.924	93.800
235	11.750	38.549	138.530	138.533	1.516	0.540	1.094	91.400
236	11.800	38.713	142.130	142.136	1.865	1.010	1.312	100.400
237	11.850	38.877	138.000	138.010	2.046	1.540	1.483	97.700
238	11.900	39.042	133.030	133.041	1.991	1.750	1.497	91.100
239	11.950	39.206	140.980	140.991	2.133	1.740	1.513	76.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	151.730	151.741	2.386	1.740	1.572	80.900
241	12.050	39.534	134.850	134.863	2.516	2.060	1.866	78.600
242	12.100	39.698	116.100	116.113	2.269	2.120	1.954	75.900
243	12.150	39.862	105.140	105.153	1.940	2.120	1.845	69.700
244	12.200	40.026	99.800	99.813	1.759	2.060	1.762	74.700
245	12.250	40.190	94.860	94.873	1.655	2.080	1.744	69.000
246	12.300	40.354	92.600	92.613	1.589	2.020	1.716	65.600
247	12.350	40.518	92.200	92.212	1.509	1.950	1.636	64.400
248	12.400	40.682	93.780	93.792	1.456	1.920	1.552	66.900
249	12.450	40.846	99.000	99.013	1.465	2.020	1.480	63.500
250	12.500	41.010	110.310	110.322	1.489	1.980	1.350	70.800
251	12.550	41.174	118.050	118.063	1.585	2.090	1.343	56.900
252	12.600	41.338	118.310	118.323	1.484	2.060	1.254	54.700
253	12.650	41.502	119.000	119.013	1.473	2.100	1.238	56.500
254	12.700	41.666	126.550	126.562	1.442	1.990	1.139	60.300
255	12.750	41.830	144.230	144.243	1.557	2.080	1.079	46.000
256	12.800	41.994	153.720	153.733	1.761	2.130	1.145	58.000
257	12.850	42.158	156.500	156.513	1.895	2.160	1.211	55.300
258	12.900	42.322	160.400	160.414	2.014	2.170	1.256	58.200
259	12.950	42.486	162.650	162.664	2.047	2.210	1.258	58.100
260	13.000	42.650	151.800	151.814	2.046	2.240	1.348	57.800
261	13.050	42.814	147.780	147.794	1.962	2.270	1.328	56.800
262	13.100	42.978	155.070	155.085	1.923	2.340	1.240	59.000
263	13.150	43.143	155.950	155.965	2.011	2.360	1.289	63.200
264	13.200	43.307	148.690	148.704	1.973	2.310	1.327	56.900
265	13.250	43.471	139.440	139.455	1.858	2.440	1.332	64.000
266	13.300	43.635	143.850	143.865	1.681	2.330	1.168	66.500
267	13.350	43.799	161.550	161.565	1.742	2.430	1.078	67.600
268	13.400	43.963	171.980	171.995	1.894	2.460	1.101	71.300
269	13.450	44.127	162.670	162.686	2.003	2.600	1.231	59.600
270	13.500	44.291	157.530	157.546	2.033	2.640	1.290	57.700
271	13.550	44.455	156.330	156.347	1.998	2.740	1.278	62.200
272	13.600	44.619	166.000	166.018	1.861	2.820	1.121	57.500
273	13.650	44.783	191.400	191.417	2.210	2.760	1.155	45.700
274	13.700	44.947	238.480	238.499	2.886	3.100	1.210	29.400
275	13.750	45.111	283.020	283.043	3.591	3.670	1.269	0.000
276	13.800	45.275	285.510	285.536	4.207	4.230	1.473	0.000
277	13.850	45.439	316.440	316.469	4.697	4.570	1.484	0.000
278	13.900	45.603	314.030	314.060	5.137	4.860	1.636	0.000
279	13.950	45.767	296.520	296.551	5.391	5.010	1.818	0.000
280	14.000	45.931	264.320	264.353	5.254	5.210	1.987	0.000
281	14.050	46.095	224.130	224.162	4.582	5.200	2.044	0.000
282	14.100	46.259	197.510	197.543	3.678	5.290	1.862	0.000
283	14.150	46.423	198.500	198.533	2.940	5.220	1.481	0.000
284	14.200	46.587	199.800	199.833	2.810	5.270	1.406	0.000
285	14.250	46.751	202.100	202.132	2.761	5.100	1.366	0.000
286	14.300	46.915	216.010	216.042	2.843	5.120	1.316	0.000
287	14.350	47.079	230.130	230.162	3.064	5.120	1.331	0.000
288	14.400	47.244	210.870	210.902	3.492	5.080	1.656	0.000
289	14.450	47.408	215.140	215.172	0.000	5.120	0.000	0.000
290	14.500	47.572	193.040	193.072	0.000	5.170	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221576
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-10-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-20-2013
CPT Time:	11:02
CPT File:	13-53075_GP10-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722195.467
Northing / Lat:	4294337.892
Elevation:	143.852
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	4.620	4.625	0.045	0.850	0.973	25.300
2	0.100	0.328	130.400	130.415	0.221	2.360	0.169	39.500
3	0.150	0.492	121.250	121.262	0.458	1.890	0.378	42.000
4	0.200	0.656	70.580	70.589	0.839	1.500	1.189	51.600
5	0.250	0.820	32.830	32.841	1.551	1.790	4.723	55.900
6	0.300	0.984	74.910	74.916	0.566	0.960	0.756	46.900
7	0.350	1.148	134.800	134.802	1.063	0.400	0.789	60.100
8	0.400	1.312	147.880	147.888	3.518	1.210	2.379	64.600
9	0.450	1.476	80.960	80.966	3.510	0.890	4.335	63.100
10	0.500	1.640	227.980	227.987	1.479	1.200	0.649	50.700
11	0.550	1.804	197.710	197.710	3.630	0.030	1.836	54.600
12	0.600	1.968	139.540	139.543	4.062	0.420	2.911	59.600
13	0.650	2.133	69.880	69.892	2.374	1.900	3.397	66.400
14	0.700	2.297	57.790	57.794	1.835	0.690	3.175	89.200
15	0.750	2.461	59.880	59.883	1.350	0.550	2.254	77.500
16	0.800	2.625	61.830	61.834	1.500	0.650	2.426	105.600
17	0.850	2.789	69.910	69.913	1.708	0.500	2.443	100.200
18	0.900	2.953	80.640	80.642	1.825	0.290	2.263	104.900
19	0.950	3.117	86.520	86.522	1.962	0.280	2.268	100.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	85.060	85.061	1.992	0.160	2.342	97.700
21	1.050	3.445	80.220	80.221	1.958	0.130	2.441	99.000
22	1.100	3.609	72.900	72.901	1.998	0.120	2.741	83.600
23	1.150	3.773	61.400	61.398	1.948	-0.370	3.173	87.600
24	1.200	3.937	46.360	46.356	1.597	-0.580	3.445	75.800
25	1.250	4.101	45.010	45.006	1.107	-0.590	2.460	65.500
26	1.300	4.265	54.890	54.885	0.717	-0.770	1.306	67.300
27	1.350	4.429	38.690	38.691	0.940	0.100	2.430	66.500
28	1.400	4.593	23.770	23.771	1.177	0.230	4.951	52.100
29	1.450	4.757	27.680	27.682	0.713	0.260	2.576	45.000
30	1.500	4.921	36.820	36.799	0.600	-3.420	1.630	31.000
31	1.550	5.085	19.860	19.857	0.431	-0.420	2.170	28.400
32	1.600	5.249	11.680	11.679	0.384	-0.200	3.288	27.300
33	1.650	5.413	14.380	14.390	0.304	1.530	2.113	23.400
34	1.700	5.577	18.620	18.626	0.303	0.970	1.627	20.300
35	1.750	5.741	22.520	22.524	0.468	0.590	2.078	23.600
36	1.800	5.905	27.910	27.911	0.574	0.120	2.057	17.800
37	1.850	6.069	26.450	26.449	0.525	-0.090	1.985	19.700
38	1.900	6.234	22.820	22.819	0.581	-0.150	2.546	26.200
39	1.950	6.398	17.260	17.257	0.439	-0.470	2.544	31.100
40	2.000	6.562	15.230	15.224	0.507	-1.020	3.330	35.400
41	2.050	6.726	24.140	24.134	0.491	-0.930	2.034	43.900
42	2.100	6.890	9.130	9.125	0.530	-0.770	5.808	51.600
43	2.150	7.054	12.610	12.594	0.346	-2.510	2.747	79.100
44	2.200	7.218	22.690	22.672	0.454	-2.960	2.003	88.700
45	2.250	7.382	15.260	15.198	0.550	-9.960	3.619	99.100
46	2.300	7.546	11.040	10.963	0.567	-12.280	5.172	108.100
47	2.350	7.710	11.710	11.629	0.566	-12.920	4.867	108.100
48	2.400	7.874	15.600	15.517	0.510	-13.250	3.287	82.300
49	2.450	8.038	23.110	23.026	0.539	-13.440	2.341	81.900
50	2.500	8.202	19.590	19.605	0.593	2.410	3.025	77.300
51	2.550	8.366	25.050	25.059	0.492	1.380	1.963	68.800
52	2.600	8.530	20.270	20.282	0.516	1.890	2.544	65.700
53	2.650	8.694	26.390	26.388	0.651	-0.260	2.467	41.000
54	2.700	8.858	16.060	16.055	0.612	-0.850	3.812	32.700
55	2.750	9.022	18.750	18.745	0.682	-0.860	3.638	27.700
56	2.800	9.186	31.230	31.228	0.963	-0.280	3.084	23.500
57	2.850	9.350	48.890	48.881	0.545	-1.460	1.115	27.700
58	2.900	9.514	137.660	137.654	3.210	-0.960	2.332	25.700
59	2.950	9.678	82.070	82.067	2.871	-0.560	3.498	36.900
60	3.000	9.842	3.010	3.006	2.224	-0.570	73.974	33.800
61	3.050	10.006	2.360	2.357	0.002	-0.410	0.085	34.600
62	3.100	10.170	2.520	2.517	0.002	-0.480	0.079	37.100
63	3.150	10.335	2.070	2.067	0.378	-0.440	18.285	44.400
64	3.200	10.499	1.840	1.837	0.302	-0.410	16.436	43.200
65	3.250	10.663	226.200	226.197	2.174	-0.410	0.961	48.000
66	3.300	10.827	135.510	135.506	2.752	-0.590	2.031	64.200
67	3.350	10.991	52.890	52.888	2.188	-0.380	4.137	75.100
68	3.400	11.155	50.530	50.519	0.911	-1.710	1.803	81.000
69	3.450	11.319	44.320	44.302	0.847	-2.930	1.912	77.600
70	3.500	11.483	36.690	36.657	0.876	-5.280	2.390	61.700
71	3.550	11.647	30.950	30.910	0.692	-6.350	2.239	43.600
72	3.600	11.811	33.200	33.155	0.411	-7.270	1.240	36.200
73	3.650	11.975	40.900	40.871	0.764	-4.720	1.869	23.800
74	3.700	12.139	79.190	79.183	0.632	-1.200	0.798	23.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	56.720	56.714	1.221	-0.970	2.153	21.300
76	3.800	12.467	66.590	66.584	0.994	-0.990	1.493	23.900
77	3.850	12.631	29.820	29.822	0.713	0.300	2.391	30.000
78	3.900	12.795	41.170	41.172	0.422	0.320	1.025	29.400
79	3.950	12.959	30.400	30.403	0.526	0.490	1.730	38.800
80	4.000	13.123	38.590	38.590	0.964	0.070	2.498	40.800
81	4.050	13.287	32.520	32.529	0.674	1.510	2.072	59.100
82	4.100	13.451	69.570	69.572	2.554	0.360	3.671	65.500
83	4.150	13.615	128.100	128.100	3.469	0.040	2.708	63.100
84	4.200	13.779	102.480	102.472	3.041	-1.310	2.968	80.100
85	4.250	13.943	87.700	87.667	2.976	-5.290	3.395	79.900
86	4.300	14.107	85.520	85.501	3.124	-3.040	3.654	76.500
87	4.350	14.271	110.210	110.187	3.583	-3.650	3.252	84.800
88	4.400	14.436	95.850	95.813	4.027	-5.930	4.203	78.000
89	4.450	14.600	95.540	95.490	3.332	-7.990	3.489	83.400
90	4.500	14.764	85.540	85.475	3.236	-10.370	3.786	84.500
91	4.550	14.928	61.980	61.902	1.917	-12.530	3.097	88.800
92	4.600	15.092	70.180	70.092	2.519	-14.040	3.594	87.000
93	4.650	15.256	102.640	102.529	2.171	-17.850	2.117	97.900
94	4.700	15.420	68.000	67.884	2.221	-18.640	3.272	85.100
95	4.750	15.584	63.790	63.672	1.813	-18.830	2.847	75.000
96	4.800	15.748	46.330	46.211	1.288	-19.020	2.787	78.600
97	4.850	15.912	32.060	31.943	1.194	-18.770	3.738	77.000
98	4.900	16.076	35.090	34.974	1.202	-18.550	3.437	68.100
99	4.950	16.240	41.800	41.685	2.119	-18.430	5.083	66.800
100	5.000	16.404	61.110	60.996	2.222	-18.260	3.643	79.300
101	5.050	16.568	45.500	45.386	2.240	-18.250	4.935	75.000
102	5.100	16.732	55.210	55.096	1.809	-18.260	3.283	86.300
103	5.150	16.896	50.100	49.986	1.590	-18.250	3.181	87.000
104	5.200	17.060	40.780	40.703	1.018	-12.400	2.501	75.000
105	5.250	17.224	56.330	56.286	1.118	-7.090	1.986	85.300
106	5.300	17.388	70.920	70.923	1.134	0.420	1.599	65.100
107	5.350	17.552	37.410	37.410	1.331	0.040	3.558	66.800
108	5.400	17.716	31.600	31.582	1.160	-2.940	3.673	51.600
109	5.450	17.880	24.840	24.817	0.740	-3.710	2.982	46.100
110	5.500	18.044	21.780	21.755	0.730	-4.020	3.356	48.900
111	5.550	18.208	18.810	18.786	0.509	-3.900	2.710	38.800
112	5.600	18.372	8.810	8.789	0.730	-3.330	8.306	26.600
113	5.650	18.537	6.560	6.554	0.507	-0.910	7.735	29.900
114	5.700	18.701	42.240	42.234	0.551	-0.890	1.305	16.300
115	5.750	18.865	33.450	33.452	0.825	0.400	2.466	19.900
116	5.800	19.029	30.130	30.135	1.124	0.740	3.730	18.800
117	5.850	19.193	29.770	29.773	0.763	0.470	2.563	20.900
118	5.900	19.357	12.890	12.892	0.693	0.350	5.375	25.200
119	5.950	19.521	22.250	22.260	0.751	1.600	3.374	28.800
120	6.000	19.685	26.020	26.030	0.699	1.620	2.685	30.500
121	6.050	19.849	43.910	43.915	0.995	0.770	2.266	20.200
122	6.100	20.013	43.930	43.933	0.379	0.420	0.863	25.500
123	6.150	20.177	30.750	30.750	0.258	-0.060	0.839	24.600
124	6.200	20.341	6.780	6.781	0.140	0.090	2.065	24.300
125	6.250	20.505	10.760	10.760	0.222	0.040	2.063	17.800
126	6.300	20.669	12.010	12.010	0.012	-0.010	0.100	19.100
127	6.350	20.833	42.840	42.841	0.043	0.220	0.100	19.700
128	6.400	20.997	45.730	45.728	0.399	-0.360	0.873	17.000
129	6.450	21.161	41.420	41.420	0.507	0.070	1.224	16.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	14.520	14.520	0.681	0.060	4.690	16.900
131	6.550	21.489	26.840	26.840	0.513	0.060	1.911	13.000
132	6.600	21.653	34.990	34.990	0.644	0.010	1.841	14.600
133	6.650	21.817	42.310	42.325	0.880	2.470	2.079	15.100
134	6.700	21.981	26.990	27.003	1.951	2.120	7.225	13.800
135	6.750	22.145	45.330	45.333	1.835	0.510	4.048	17.000
136	6.800	22.309	19.020	19.025	2.073	0.840	10.896	13.400
137	6.850	22.473	34.850	34.862	1.700	1.890	4.876	16.500
138	6.900	22.638	25.530	25.543	1.129	2.090	4.420	10.800
139	6.950	22.802	47.480	47.491	1.191	1.790	2.508	19.600
140	7.000	22.966	22.140	22.151	1.100	1.750	4.966	21.500
141	7.050	23.130	23.540	23.548	0.915	1.240	3.886	24.800
142	7.100	23.294	24.490	24.495	0.371	0.760	1.515	26.500
143	7.150	23.458	44.160	44.167	0.815	1.060	1.845	32.300
144	7.200	23.622	39.230	39.237	1.209	1.090	3.081	27.100
145	7.250	23.786	58.030	58.039	1.473	1.480	2.538	19.000
146	7.300	23.950	36.110	36.119	1.427	1.480	3.951	20.800
147	7.350	24.114	21.540	21.548	1.466	1.310	6.803	16.100
148	7.400	24.278	22.850	22.867	1.137	2.670	4.972	21.000
149	7.450	24.442	21.340	21.360	1.078	3.140	5.047	22.500
150	7.500	24.606	30.040	30.055	1.393	2.430	4.635	17.700
151	7.550	24.770	38.100	38.111	1.298	1.710	3.406	20.700
152	7.600	24.934	20.870	20.880	1.144	1.540	5.479	15.100
153	7.650	25.098	50.240	50.256	1.091	2.500	2.171	16.100
154	7.700	25.262	83.080	83.089	1.436	1.520	1.728	15.700
155	7.750	25.426	83.010	83.019	1.816	1.480	2.187	12.000
156	7.800	25.590	58.500	58.507	2.033	1.160	3.475	13.400
157	7.850	25.754	52.430	52.435	1.944	0.740	3.707	12.800
158	7.900	25.918	44.700	44.705	2.127	0.800	4.758	13.500
159	7.950	26.082	55.150	55.152	1.920	0.400	3.481	14.900
160	8.000	26.246	45.530	45.531	1.556	0.130	3.417	14.300
161	8.050	26.410	27.310	27.304	1.095	-0.990	4.010	15.200
162	8.100	26.574	37.480	37.476	1.253	-0.580	3.343	11.300
163	8.150	26.739	64.640	64.638	1.301	-0.400	2.013	15.000
164	8.200	26.903	58.480	58.477	1.597	-0.550	2.731	15.400
165	8.250	27.067	60.030	60.030	1.293	-0.080	2.154	20.700
166	8.300	27.231	48.200	48.198	1.009	-0.360	2.093	16.900
167	8.350	27.395	53.090	53.087	1.162	-0.410	2.189	19.800
168	8.400	27.559	35.750	35.748	1.557	-0.300	4.355	16.000
169	8.450	27.723	27.390	27.382	1.362	-1.210	4.974	16.400
170	8.500	27.887	7.770	7.764	0.947	-0.970	12.197	20.500
171	8.550	28.051	25.610	25.606	1.373	-0.570	5.362	25.100
172	8.600	28.215	55.870	55.867	1.369	-0.440	2.450	24.300
173	8.650	28.379	25.690	25.687	1.713	-0.470	6.669	30.100
174	8.700	28.543	24.860	24.856	1.280	-0.630	5.150	34.200
175	8.750	28.707	21.420	21.419	0.839	-0.120	3.917	51.200
176	8.800	28.871	16.770	16.769	0.652	-0.200	3.888	66.000
177	8.850	29.035	19.750	19.748	0.669	-0.350	3.388	58.100
178	8.900	29.199	20.750	20.746	0.718	-0.630	3.461	66.800
179	8.950	29.363	43.240	43.236	1.284	-0.710	2.970	55.400
180	9.000	29.527	58.660	58.658	1.722	-0.330	2.936	56.100
181	9.050	29.691	44.850	44.847	1.897	-0.420	4.230	47.800
182	9.100	29.855	48.580	48.578	1.316	-0.350	2.709	63.800
183	9.150	30.019	41.250	41.251	1.181	0.110	2.863	68.600
184	9.200	30.183	51.880	51.882	1.271	0.350	2.450	57.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	59.780	59.783	1.265	0.440	2.116	40.800
186	9.300	30.511	75.060	75.065	1.536	0.750	2.046	46.100
187	9.350	30.675	47.050	47.055	1.408	0.800	2.992	40.100
188	9.400	30.840	55.760	55.764	1.851	0.610	3.319	35.000
189	9.450	31.004	82.290	82.294	2.232	0.570	2.712	31.900
190	9.500	31.168	88.400	88.408	2.565	1.240	2.901	25.700
191	9.550	31.332	59.400	59.408	2.098	1.220	3.532	26.500
192	9.600	31.496	48.770	48.777	1.313	1.080	2.692	25.600
193	9.650	31.660	41.780	41.784	0.728	0.570	1.742	21.900
194	9.700	31.824	100.320	100.323	0.774	0.510	0.772	22.600
195	9.750	31.988	46.710	46.713	0.976	0.480	2.089	27.900
196	9.800	32.152	44.120	44.121	1.102	0.150	2.498	29.800
197	9.850	32.316	40.110	40.111	0.852	0.170	2.124	29.000
198	9.900	32.480	48.080	48.080	0.762	0.070	1.585	31.800
199	9.950	32.644	48.030	48.032	0.487	0.300	1.014	30.200
200	10.000	32.808	44.210	44.212	0.681	0.320	1.540	38.300
201	10.050	32.972	39.030	39.033	0.837	0.450	2.144	42.900
202	10.100	33.136	37.190	37.192	0.804	0.330	2.162	54.000
203	10.150	33.300	39.500	39.502	0.604	0.280	1.529	46.200
204	10.200	33.464	44.190	44.191	0.479	0.190	1.084	59.900
205	10.250	33.628	47.930	47.931	0.867	0.150	1.809	48.700
206	10.300	33.792	40.260	40.261	1.104	0.090	2.742	47.100
207	10.350	33.956	85.610	85.611	1.718	0.180	2.007	51.800
208	10.400	34.120	137.310	137.314	2.098	0.720	1.528	42.500
209	10.450	34.284	113.220	113.224	2.284	0.640	2.017	60.000
210	10.500	34.448	65.700	65.707	2.088	1.160	3.178	64.700
211	10.550	34.612	68.850	68.855	1.613	0.870	2.343	62.000
212	10.600	34.776	59.790	59.795	1.095	0.860	1.831	60.500
213	10.650	34.941	38.590	38.594	0.999	0.710	2.588	53.600
214	10.700	35.105	60.010	60.014	1.333	0.680	2.221	43.800
215	10.750	35.269	68.300	68.306	1.766	0.960	2.585	58.800
216	10.800	35.433	56.770	56.777	1.836	1.060	3.234	60.100
217	10.850	35.597	57.510	57.517	1.319	1.050	2.293	62.600
218	10.900	35.761	69.670	69.676	0.756	0.940	1.085	63.700
219	10.950	35.925	81.330	81.336	0.756	0.950	0.929	63.200
220	11.000	36.089	90.120	90.126	0.809	0.940	0.898	69.500
221	11.050	36.253	97.960	97.966	0.981	1.000	1.001	63.900
222	11.100	36.417	97.240	97.246	1.242	0.940	1.277	71.400
223	11.150	36.581	94.790	94.796	1.351	1.010	1.425	60.000
224	11.200	36.745	91.260	91.265	1.478	0.880	1.619	71.200
225	11.250	36.909	82.180	82.185	1.710	0.880	2.081	57.000
226	11.300	37.073	61.700	61.705	2.363	0.880	3.829	48.100
227	11.350	37.237	54.100	54.106	2.517	0.950	4.652	38.700
228	11.400	37.401	85.210	85.218	3.063	1.300	3.594	37.700
229	11.450	37.565	131.990	131.996	2.919	0.970	2.211	44.100
230	11.500	37.729	41.070	41.073	1.984	0.560	4.830	45.300
231	11.550	37.893	66.130	66.140	1.146	1.550	1.733	56.900
232	11.600	38.057	69.880	69.889	0.984	1.440	1.408	59.500
233	11.650	38.221	47.720	47.728	1.253	1.300	2.625	66.700
234	11.700	38.385	35.770	35.779	1.373	1.460	3.837	79.200
235	11.750	38.549	30.680	30.689	1.140	1.460	3.715	70.400
236	11.800	38.713	30.320	30.328	0.973	1.350	3.208	63.100
237	11.850	38.877	36.720	36.729	0.693	1.380	1.887	68.900
238	11.900	39.042	57.230	57.238	0.758	1.290	1.324	69.000
239	11.950	39.206	80.730	80.739	0.628	1.390	0.778	68.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	78.980	78.990	1.214	1.630	1.537	67.900
241	12.050	39.534	88.900	88.911	1.711	1.720	1.924	63.200
242	12.100	39.698	47.690	47.702	1.692	1.920	3.547	74.500
243	12.150	39.862	29.550	29.563	1.267	2.100	4.286	88.200
244	12.200	40.026	30.790	30.806	0.801	2.550	2.600	82.300
245	12.250	40.190	28.270	28.287	0.886	2.710	3.132	88.500
246	12.300	40.354	31.350	31.367	0.928	2.660	2.959	91.000
247	12.350	40.518	34.430	34.446	1.082	2.630	3.141	81.300
248	12.400	40.682	36.410	36.427	0.871	2.680	2.391	82.000
249	12.450	40.846	79.560	79.579	1.420	3.090	1.784	64.200
250	12.500	41.010	84.680	84.697	1.841	2.730	2.174	64.100
251	12.550	41.174	72.960	72.975	2.128	2.460	2.916	55.900
252	12.600	41.338	83.950	83.965	2.824	2.430	3.363	48.800
253	12.650	41.502	109.480	109.498	4.124	2.890	3.766	47.500
254	12.700	41.666	134.210	134.232	5.629	3.500	4.193	35.600
255	12.750	41.830	147.160	147.190	6.565	4.830	4.460	43.200
256	12.800	41.994	153.100	153.142	6.025	6.790	3.934	38.000
257	12.850	42.158	58.970	59.007	4.299	5.970	7.286	32.600
258	12.900	42.322	44.870	44.898	2.744	4.480	6.112	25.700
259	12.950	42.486	30.030	30.057	1.582	4.330	5.263	24.500
260	13.000	42.650	24.030	24.058	1.434	4.520	5.961	26.400
261	13.050	42.814	28.670	28.689	1.147	3.110	3.998	29.700
262	13.100	42.978	31.290	31.313	1.478	3.640	4.720	35.700
263	13.150	43.143	33.650	33.673	1.212	3.670	3.599	38.900
264	13.200	43.307	32.540	32.566	0.859	4.090	2.638	45.100
265	13.250	43.471	66.290	66.317	1.175	4.400	1.772	48.700
266	13.300	43.635	112.910	112.937	1.358	4.290	1.202	52.200
267	13.350	43.799	189.310	189.338	1.858	4.490	0.981	58.000
268	13.400	43.963	208.580	208.609	2.777	4.570	1.331	62.200
269	13.450	44.127	202.710	202.739	3.150	4.640	1.554	57.700
270	13.500	44.291	180.340	180.369	3.108	4.630	1.723	54.400
271	13.550	44.455	173.090	173.119	2.429	4.630	1.403	60.900
272	13.600	44.619	170.250	170.278	2.321	4.490	1.363	52.900
273	13.650	44.783	174.200	174.228	2.290	4.530	1.314	53.600
274	13.700	44.947	191.060	191.087	2.319	4.400	1.214	57.600
275	13.750	45.111	193.650	193.678	2.457	4.550	1.269	59.900
276	13.800	45.275	198.800	198.828	2.638	4.490	1.327	52.700
277	13.850	45.439	201.560	201.589	2.630	4.590	1.305	61.400
278	13.900	45.603	197.090	197.118	2.689	4.560	1.364	57.200
279	13.950	45.767	199.220	199.249	2.658	4.650	1.334	63.500
280	14.000	45.931	198.270	198.299	2.828	4.640	1.426	59.900
281	14.050	46.095	165.670	165.698	2.809	4.510	1.695	64.200
282	14.100	46.259	137.210	137.239	2.527	4.630	1.841	63.100
283	14.150	46.423	120.610	120.639	2.191	4.670	1.816	68.600
284	14.200	46.587	110.390	110.419	1.975	4.700	1.789	65.800
285	14.250	46.751	99.940	99.969	1.771	4.670	1.772	78.100
286	14.300	46.915	90.260	90.289	1.538	4.620	1.703	73.600
287	14.350	47.079	86.610	86.638	1.253	4.490	1.446	75.200
288	14.400	47.244	75.850	75.875	1.222	3.940	1.611	85.300
289	14.450	47.408	65.660	65.683	1.077	3.710	1.640	70.300
290	14.500	47.572	67.140	67.163	0.962	3.700	1.432	80.400
291	14.550	47.736	62.220	62.242	0.886	3.490	1.423	78.600
292	14.600	47.900	61.870	61.891	0.742	3.380	1.199	78.700
293	14.650	48.064	49.670	49.687	0.779	2.750	1.568	85.600
294	14.700	48.228	66.500	66.515	0.819	2.440	1.231	80.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	71.420	71.434	0.739	2.220	1.035	82.000
296	14.800	48.556	78.670	78.681	0.758	1.770	0.963	78.000
297	14.850	48.720	88.250	88.258	0.812	1.210	0.920	77.800
298	14.900	48.884	107.550	107.556	1.065	0.940	0.990	81.100
299	14.950	49.048	151.260	151.266	1.348	0.930	0.891	78.900
300	15.000	49.212	215.400	215.406	1.937	0.940	0.899	78.900
301	15.050	49.376	256.340	256.345	2.694	0.770	1.051	78.400
302	15.100	49.540	256.000	256.005	3.454	0.770	1.349	59.900
303	15.150	49.704	244.600	244.605	3.783	0.760	1.547	67.100
304	15.200	49.868	226.080	226.084	3.765	0.710	1.665	56.600
305	15.250	50.032	214.790	214.795	3.444	0.840	1.603	54.200
306	15.300	50.196	200.010	200.015	3.156	0.810	1.578	61.600
307	15.350	50.360	180.070	180.076	2.858	0.930	1.587	62.300
308	15.400	50.524	166.970	166.976	2.572	1.030	1.540	64.900
309	15.450	50.688	154.450	154.457	2.388	1.080	1.546	0.000
310	15.500	50.852	145.540	145.548	2.191	1.290	1.505	0.000
311	15.550	51.016	138.900	138.908	2.103	1.250	1.514	0.000
312	15.600	51.180	131.600	131.609	2.030	1.380	1.542	0.000
313	15.650	51.345	122.990	122.998	1.899	1.310	1.544	0.000
314	15.700	51.509	123.840	123.848	1.722	1.330	1.390	0.000
315	15.750	51.673	140.270	140.279	1.788	1.490	1.275	0.000
316	15.800	51.837	170.400	170.409	2.027	1.410	1.189	0.000
317	15.850	52.001	186.540	186.549	2.337	1.460	1.253	0.000
318	15.900	52.165	197.500	197.510	2.608	1.650	1.320	0.000
319	15.950	52.329	221.690	221.700	2.851	1.590	1.286	0.000
320	16.000	52.493	240.810	240.821	3.255	1.710	1.352	0.000
321	16.050	52.657	244.470	244.483	3.641	2.080	1.489	0.000
322	16.100	52.821	237.190	237.201	3.761	1.820	1.586	0.000
323	16.150	52.985	235.540	235.552	0.000	1.900	0.000	0.000
324	16.200	53.149	264.410	264.423	0.000	2.040	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221578
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-10-3A
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-18-2013
CPT Time:	10:15
CPT File:	13-53075_GP10-3A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722200.000
Northing / Lat:	4294318.890
Elevation:	147.830
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	41.730	41.731	0.115	0.160	0.276	26.700
2	0.100	0.328	44.640	44.642	0.187	0.310	0.419	39.400
3	0.150	0.492	59.350	59.351	0.360	0.130	0.607	39.800
4	0.200	0.656	64.170	64.171	0.600	0.140	0.935	44.900
5	0.250	0.820	58.670	58.671	0.547	0.130	0.932	33.400
6	0.300	0.984	62.370	62.371	0.460	0.210	0.738	56.500
7	0.350	1.148	59.430	59.431	0.869	0.140	1.462	62.100
8	0.400	1.312	37.680	37.681	1.017	0.230	2.699	58.700
9	0.450	1.476	27.780	27.781	1.364	0.180	4.910	55.300
10	0.500	1.640	35.770	35.748	1.267	-3.490	3.544	64.500
11	0.550	1.804	37.230	37.225	1.098	-0.730	2.950	59.200
12	0.600	1.968	55.940	55.930	0.964	-1.580	1.724	60.600
13	0.650	2.133	78.630	78.631	0.906	0.240	1.152	63.200
14	0.700	2.297	96.250	96.256	0.767	0.950	0.797	59.000
15	0.750	2.461	91.610	91.617	1.045	1.160	1.141	64.600
16	0.800	2.625	84.190	84.190	1.115	-0.030	1.324	63.100
17	0.850	2.789	62.720	62.719	1.285	-0.090	2.049	63.700
18	0.900	2.953	61.380	61.394	1.509	2.200	2.458	71.300
19	0.950	3.117	60.200	60.199	1.299	-0.090	2.158	65.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	43.850	43.851	1.082	0.090	2.467	64.400
21	1.050	3.445	49.050	49.059	0.850	1.500	1.733	81.500
22	1.100	3.609	48.220	48.223	0.457	0.510	0.948	76.700
23	1.150	3.773	48.010	48.010	0.494	0.000	1.029	74.700
24	1.200	3.937	55.920	55.918	1.171	-0.280	2.094	69.500
25	1.250	4.101	63.290	63.290	1.564	-0.070	2.471	72.400
26	1.300	4.265	104.080	104.080	3.624	0.020	3.482	70.200
27	1.350	4.429	101.310	101.309	2.077	-0.150	2.050	65.700
28	1.400	4.593	135.880	135.879	1.824	-0.110	1.342	0.000
29	1.450	4.757	111.680	111.682	2.792	0.270	2.500	0.000
30	1.500	4.921	119.730	119.725	2.210	-0.810	1.846	0.000
31	1.550	5.085	78.730	78.731	2.712	0.090	3.445	0.000
32	1.600	5.249	141.340	141.356	1.892	2.520	1.338	0.000
33	1.650	5.413	118.620	118.621	2.230	0.110	1.880	0.000
34	1.700	5.577	128.750	128.746	2.312	-0.600	1.796	0.000
35	1.750	5.741	116.740	116.753	1.682	2.030	1.441	0.000
36	1.800	5.905	108.560	108.569	1.258	1.480	1.159	0.000
37	1.850	6.069	118.170	118.168	1.631	-0.400	1.380	0.000
38	1.900	6.234	100.210	100.213	0.407	0.500	0.406	0.000
39	1.950	6.398	74.530	74.525	0.466	-0.780	0.625	0.000
40	2.000	6.562	80.120	80.117	0.155	-0.460	0.193	0.000
41	2.050	6.726	101.500	101.504	3.307	0.710	3.258	0.000
42	2.100	6.890	137.370	137.377	2.965	1.060	2.158	0.000
43	2.150	7.054	567.210	567.213	0.000	0.530	0.000	0.000
44	2.200	7.218	756.050	756.048	0.000	-0.260	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221577
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-10-3
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-18-2013
CPT Time:	08:20
CPT File:	13-53075_GP10-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722280.787
Northing / Lat:	4294421.554
Elevation:	137.628
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	10.210	10.210	0.013	-0.040	0.127	32.500
2	0.100	0.328	18.970	18.970	0.202	0.020	1.065	39.200
3	0.150	0.492	31.870	31.871	0.129	0.090	0.405	40.900
4	0.200	0.656	40.490	40.493	0.338	0.500	0.835	41.600
5	0.250	0.820	59.580	59.583	0.500	0.540	0.839	53.200
6	0.300	0.984	67.380	67.382	0.758	0.250	1.125	50.000
7	0.350	1.148	36.640	36.646	0.709	0.910	1.935	48.400
8	0.400	1.312	47.350	47.358	0.613	1.360	1.294	48.400
9	0.450	1.476	70.950	70.970	0.723	3.180	1.019	58.300
10	0.500	1.640	83.110	83.130	0.780	3.260	0.938	67.900
11	0.550	1.804	87.510	87.523	1.209	2.130	1.381	57.900
12	0.600	1.968	88.280	88.287	1.560	1.110	1.767	63.700
13	0.650	2.133	80.720	80.741	1.130	3.400	1.400	59.700
14	0.700	2.297	77.000	76.997	1.268	-0.440	1.647	0.000
15	0.750	2.461	94.890	94.895	0.886	0.860	0.934	0.000
16	0.800	2.625	138.690	138.691	4.124	0.230	2.974	0.000
17	0.850	2.789	168.370	168.367	6.624	-0.410	3.934	0.000
18	0.900	2.953	216.190	216.192	5.123	0.300	2.370	0.000
19	0.950	3.117	318.870	318.872	2.630	0.280	0.825	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	206.950	206.960	2.444	1.630	1.181	0.000
21	1.050	3.445	181.670	181.677	4.152	1.140	2.285	0.000
22	1.100	3.609	194.810	194.811	4.290	0.180	2.202	0.000
23	1.150	3.773	228.920	228.946	2.631	4.110	1.149	0.000
24	1.200	3.937	174.370	174.385	2.640	2.450	1.514	0.000
25	1.250	4.101	147.100	147.102	3.559	0.290	2.419	0.000
26	1.300	4.265	143.750	143.763	2.784	2.080	1.937	0.000
27	1.350	4.429	146.080	146.099	2.679	3.120	1.834	0.000
28	1.400	4.593	189.030	189.036	2.850	0.900	1.508	0.000
29	1.450	4.757	496.770	496.777	0.000	1.200	0.000	0.000
30	1.500	4.921	512.450	512.455	0.000	0.880	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221581
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-10-4A
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-18-2013
CPT Time:	10:51
CPT File:	13-53075_GP10-4A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722204.700
Northing / Lat:	4294314.070
Elevation:	147.270
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	18.590	18.590	0.032	-0.010	0.172	24.300
2	0.100	0.328	26.800	26.798	0.081	-0.300	0.302	36.200
3	0.150	0.492	44.990	44.990	0.149	-0.040	0.331	28.700
4	0.200	0.656	42.320	42.319	0.145	-0.090	0.343	36.000
5	0.250	0.820	63.370	63.375	0.139	0.830	0.219	36.100
6	0.300	0.984	91.450	91.453	0.164	0.500	0.179	32.100
7	0.350	1.148	102.280	102.284	0.339	0.660	0.331	30.500
8	0.400	1.312	108.410	108.410	0.542	0.040	0.500	38.700
9	0.450	1.476	106.400	106.400	0.697	-0.060	0.655	43.000
10	0.500	1.640	84.360	84.366	0.616	0.930	0.730	39.400
11	0.550	1.804	68.090	68.091	0.493	0.110	0.724	54.600
12	0.600	1.968	36.020	36.024	0.258	0.600	0.716	71.600
13	0.650	2.133	30.650	30.662	0.505	1.900	1.647	70.700
14	0.700	2.297	35.530	35.529	0.487	-0.170	1.371	62.400
15	0.750	2.461	34.700	34.700	0.640	-0.040	1.844	69.200
16	0.800	2.625	48.390	48.390	0.705	0.060	1.457	63.100
17	0.850	2.789	63.880	63.899	1.204	3.080	1.884	74.000
18	0.900	2.953	87.000	87.009	1.578	1.460	1.814	75.500
19	0.950	3.117	99.210	99.231	1.894	3.290	1.909	72.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	111.620	111.628	1.838	1.300	1.647	76.200
21	1.050	3.445	109.350	109.346	0.944	-0.590	0.863	65.400
22	1.100	3.609	88.240	88.241	1.577	0.150	1.787	56.600
23	1.150	3.773	97.300	97.303	1.309	0.430	1.345	81.400
24	1.200	3.937	123.840	123.842	1.810	0.400	1.462	70.500
25	1.250	4.101	159.290	159.299	2.527	1.480	1.586	79.200
26	1.300	4.265	152.590	152.619	2.811	4.710	1.842	78.200
27	1.350	4.429	152.660	152.669	3.397	1.480	2.225	73.800
28	1.400	4.593	162.020	162.026	4.094	1.010	2.527	73.600
29	1.450	4.757	133.390	133.412	3.774	3.570	2.829	75.300
30	1.500	4.921	110.190	110.199	2.780	1.440	2.523	63.200
31	1.550	5.085	106.400	106.410	1.881	1.650	1.768	66.000
32	1.600	5.249	98.770	98.770	2.456	-0.010	2.487	68.500
33	1.650	5.413	93.390	93.400	2.930	1.630	3.137	74.700
34	1.700	5.577	112.190	112.192	3.397	0.280	3.028	77.700
35	1.750	5.741	121.500	121.498	1.431	-0.260	1.178	63.000
36	1.800	5.905	111.320	111.320	2.462	0.010	2.212	76.700
37	1.850	6.069	90.330	90.328	4.016	-0.300	4.446	58.700
38	1.900	6.234	67.960	67.968	3.853	1.310	5.669	66.400
39	1.950	6.398	79.100	79.115	2.367	2.330	2.992	67.900
40	2.000	6.562	70.030	70.035	1.419	0.820	2.026	63.400
41	2.050	6.726	69.260	69.275	0.827	2.440	1.194	76.000
42	2.100	6.890	77.500	77.498	1.255	-0.330	1.619	70.900
43	2.150	7.054	152.080	152.071	2.917	-1.450	1.918	96.600
44	2.200	7.218	43.020	43.036	2.083	2.530	4.840	105.200
45	2.250	7.382	62.870	62.893	1.854	3.750	2.948	106.100
46	2.300	7.546	36.200	36.211	1.845	1.730	5.095	104.000
47	2.350	7.710	31.120	31.123	1.233	0.560	3.962	99.000
48	2.400	7.874	31.680	31.657	1.160	-3.620	3.664	102.900
49	2.450	8.038	21.950	21.930	0.874	-3.230	3.985	86.400
50	2.500	8.202	21.460	21.445	0.809	-2.460	3.773	93.900
51	2.550	8.366	40.900	40.882	1.499	-2.910	3.667	79.700
52	2.600	8.530	58.480	58.474	1.526	-0.980	2.610	78.900
53	2.650	8.694	32.270	32.292	2.642	3.540	8.182	68.200
54	2.700	8.858	53.370	53.373	1.184	0.530	2.218	61.600
55	2.750	9.022	125.570	125.557	3.055	-2.110	2.433	69.800
56	2.800	9.186	62.860	62.865	2.942	0.750	4.680	59.700
57	2.850	9.350	30.350	30.353	2.019	0.450	6.652	71.200
58	2.900	9.514	26.350	26.347	1.686	-0.460	6.399	64.300
59	2.950	9.678	239.230	239.264	2.297	5.520	0.960	54.500
60	3.000	9.842	384.180	384.202	0.206	3.470	0.054	65.100
61	3.050	10.006	351.680	351.683	1.193	0.450	0.339	61.900
62	3.100	10.170	130.020	130.013	1.083	-1.140	0.833	60.400
63	3.150	10.335	87.360	87.358	1.940	-0.260	2.221	76.600
64	3.200	10.499	69.700	69.698	1.978	-0.320	2.838	58.100
65	3.250	10.663	12.600	12.594	1.527	-0.930	12.125	81.000
66	3.300	10.827	18.240	18.242	0.831	0.300	4.555	61.600
67	3.350	10.991	22.820	22.817	0.459	-0.500	2.012	71.400
68	3.400	11.155	18.710	18.692	0.439	-2.840	2.349	66.400
69	3.450	11.319	14.170	14.157	0.435	-2.070	3.073	66.700
70	3.500	11.483	8.830	8.849	0.698	3.120	7.887	72.300
71	3.550	11.647	8.190	8.199	0.836	1.450	10.196	65.000
72	3.600	11.811	8.080	8.059	0.755	-3.330	9.368	62.000
73	3.650	11.975	193.010	192.984	0.326	-4.110	0.169	65.600
74	3.700	12.139	128.460	128.455	0.355	-0.780	0.276	64.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	195.570	195.562	0.168	-1.290	0.086	62.400
76	3.800	12.467	217.090	217.081	0.000	-1.450	0.000	67.600
77	3.850	12.631	212.120	212.114	0.171	-0.920	0.081	69.600
78	3.900	12.795	199.610	199.604	0.000	-0.940	0.000	70.000
79	3.950	12.959	182.400	182.389	0.000	-1.750	0.000	59.000
80	4.000	13.123	163.140	163.133	0.342	-1.070	0.210	63.100
81	4.050	13.287	130.330	130.327	0.029	-0.410	0.022	54.500
82	4.100	13.451	113.550	113.544	2.009	-0.960	1.769	65.700
83	4.150	13.615	100.910	100.914	1.986	0.650	1.968	76.000
84	4.200	13.779	10.750	10.750	1.968	0.020	18.307	63.700
85	4.250	13.943	10.930	10.946	0.230	2.550	2.101	84.200
86	4.300	14.107	6.470	6.512	0.287	6.670	4.407	91.500
87	4.350	14.271	14.840	14.886	0.485	7.410	3.258	108.300
88	4.400	14.436	28.740	28.792	0.822	8.310	2.855	104.100
89	4.450	14.600	35.370	35.414	1.003	7.060	2.832	94.700
90	4.500	14.764	45.380	45.446	1.133	10.600	2.493	107.900
91	4.550	14.928	42.950	42.997	1.221	7.560	2.840	110.700
92	4.600	15.092	73.030	73.127	1.439	15.590	1.968	103.900
93	4.650	15.256	98.560	98.666	1.539	17.010	1.560	103.800
94	4.700	15.420	104.390	104.455	2.116	10.350	2.026	106.800
95	4.750	15.584	84.640	84.695	2.394	8.890	2.827	88.800
96	4.800	15.748	80.660	80.704	1.922	6.970	2.382	88.500
97	4.850	15.912	102.310	102.357	1.801	7.480	1.760	80.400
98	4.900	16.076	118.750	118.783	1.528	5.300	1.286	80.500
99	4.950	16.240	74.040	74.055	1.238	2.380	1.672	77.300
100	5.000	16.404	53.020	53.012	0.957	-1.210	1.805	65.200
101	5.050	16.568	37.360	37.351	0.701	-1.520	1.877	60.100
102	5.100	16.732	24.410	24.390	0.637	-3.210	2.612	44.000
103	5.150	16.896	20.480	20.457	0.597	-3.670	2.918	27.800
104	5.200	17.060	26.000	25.983	0.656	-2.730	2.525	19.400
105	5.250	17.224	26.620	26.617	0.488	-0.490	1.833	27.600
106	5.300	17.388	30.080	30.085	0.769	0.770	2.556	12.200
107	5.350	17.552	25.410	25.418	0.696	1.210	2.738	19.800
108	5.400	17.716	67.610	67.624	0.491	2.190	0.726	16.800
109	5.450	17.880	78.110	78.106	1.216	-0.650	1.557	12.300
110	5.500	18.044	118.060	118.055	1.223	-0.760	1.036	13.000
111	5.550	18.208	149.970	149.960	1.386	-1.600	0.924	15.900
112	5.600	18.372	147.210	147.202	1.181	-1.210	0.802	8.800
113	5.650	18.537	152.880	152.873	0.850	-1.070	0.556	4.200
114	5.700	18.701	160.290	160.293	0.886	0.560	0.553	10.600
115	5.750	18.865	132.820	132.823	1.257	0.540	0.946	11.100
116	5.800	19.029	176.290	176.295	0.679	0.780	0.385	9.700
117	5.850	19.193	209.100	209.102	0.415	0.320	0.198	8.700
118	5.900	19.357	185.690	185.693	0.163	0.440	0.088	11.500
119	5.950	19.521	179.390	179.397	0.020	1.050	0.011	12.700
120	6.000	19.685	153.090	153.100	0.033	1.670	0.022	10.000
121	6.050	19.849	136.960	136.972	0.000	1.920	0.000	22.200
122	6.100	20.013	132.070	132.084	0.000	2.230	0.000	24.100
123	6.150	20.177	128.780	128.801	0.000	3.340	0.000	27.000
124	6.200	20.341	184.070	184.108	0.000	6.110	0.000	38.900
125	6.250	20.505	185.290	185.327	0.000	5.920	0.000	49.700
126	6.300	20.669	197.820	197.870	0.000	8.030	0.000	61.300
127	6.350	20.833	211.100	211.150	0.000	8.030	0.000	72.300
128	6.400	20.997	193.120	193.161	0.000	6.600	0.000	75.800
129	6.450	21.161	177.650	177.686	0.000	5.790	0.000	63.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	157.560	157.593	0.000	5.270	0.000	46.600
131	6.550	21.489	139.760	139.795	0.014	5.590	0.010	42.600
132	6.600	21.653	122.990	123.009	0.446	2.990	0.363	44.400
133	6.650	21.817	133.710	133.727	0.430	2.740	0.322	28.300
134	6.700	21.981	158.400	158.421	0.928	3.430	0.586	26.300
135	6.750	22.145	176.950	176.978	0.432	4.410	0.244	23.800
136	6.800	22.309	220.850	220.875	0.003	4.060	0.001	23.400
137	6.850	22.473	219.060	219.084	0.003	3.920	0.001	14.400
138	6.900	22.638	245.900	245.940	0.158	6.410	0.064	23.200
139	6.950	22.802	228.110	228.137	0.130	4.310	0.057	27.100
140	7.000	22.966	239.470	239.490	0.587	3.190	0.245	28.700
141	7.050	23.130	247.920	247.944	0.446	3.800	0.180	33.100
142	7.100	23.294	275.770	275.795	2.566	3.960	0.930	51.900
143	7.150	23.458	255.100	255.129	2.945	4.600	1.154	56.500
144	7.200	23.622	52.000	52.339	2.665	54.290	5.092	76.100
145	7.250	23.786	30.680	31.184	1.545	80.660	4.955	80.000
146	7.300	23.950	42.090	42.613	0.713	83.720	1.673	67.500
147	7.350	24.114	57.620	57.806	1.085	29.760	1.877	58.700
148	7.400	24.278	55.670	55.766	1.264	15.440	2.267	68.100
149	7.450	24.442	47.950	48.079	1.337	20.650	2.781	66.600
150	7.500	24.606	49.520	49.580	1.212	9.560	2.445	67.500
151	7.550	24.770	37.200	37.180	0.936	-3.220	2.517	67.900
152	7.600	24.934	23.670	23.747	0.688	12.330	2.897	72.400
153	7.650	25.098	21.030	21.065	0.504	5.640	2.393	55.600
154	7.700	25.262	19.470	19.508	0.466	6.090	2.389	50.500
155	7.750	25.426	13.180	13.188	0.363	1.320	2.752	31.500
156	7.800	25.590	20.810	20.831	0.330	3.390	1.584	12.100
157	7.850	25.754	25.910	25.912	0.534	0.280	2.061	17.700
158	7.900	25.918	19.750	19.765	0.579	2.380	2.929	15.100
159	7.950	26.082	19.930	19.952	0.667	3.450	3.343	6.900
160	8.000	26.246	17.110	17.132	0.739	3.500	4.314	9.300
161	8.050	26.410	20.390	20.413	0.756	3.660	3.704	8.200
162	8.100	26.574	32.070	32.104	0.927	5.440	2.887	11.600
163	8.150	26.739	45.900	45.920	0.975	3.260	2.123	14.700
164	8.200	26.903	69.010	69.011	1.041	0.130	1.508	7.900
165	8.250	27.067	82.990	82.994	1.028	0.720	1.239	18.200
166	8.300	27.231	107.710	107.725	1.364	2.480	1.266	20.100
167	8.350	27.395	109.370	109.400	1.299	4.880	1.187	24.400
168	8.400	27.559	98.550	98.570	1.744	3.230	1.769	30.900
169	8.450	27.723	65.470	65.557	1.499	13.900	2.287	45.800
170	8.500	27.887	32.870	32.925	1.409	8.800	4.279	69.100
171	8.550	28.051	19.330	19.413	0.595	13.250	3.065	80.700
172	8.600	28.215	39.760	39.854	0.610	15.000	1.531	63.100
173	8.650	28.379	37.350	37.398	0.811	7.710	2.169	61.400
174	8.700	28.543	31.430	31.404	0.738	-4.200	2.350	43.900
175	8.750	28.707	31.680	31.658	0.805	-3.530	2.543	45.400
176	8.800	28.871	55.360	55.354	0.627	-1.040	1.133	34.100
177	8.850	29.035	53.470	53.481	0.732	1.800	1.369	34.700
178	8.900	29.199	36.190	36.186	0.803	-0.600	2.219	27.000
179	8.950	29.363	15.150	15.156	0.739	0.940	4.876	24.000
180	9.000	29.527	20.850	20.863	0.656	2.130	3.144	18.500
181	9.050	29.691	16.480	16.488	0.541	1.250	3.281	23.900
182	9.100	29.855	26.720	26.715	0.611	-0.790	2.287	19.700
183	9.150	30.019	61.100	61.095	0.580	-0.820	0.949	24.700
184	9.200	30.183	62.940	62.963	0.751	3.700	1.193	32.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	35.830	35.846	0.742	2.570	2.070	39.000
186	9.300	30.511	22.100	22.118	0.591	2.940	2.672	42.200
187	9.350	30.675	18.360	18.382	0.508	3.590	2.764	46.400
188	9.400	30.840	42.850	42.866	0.560	2.540	1.306	51.300
189	9.450	31.004	27.080	27.094	0.557	2.210	2.056	69.300
190	9.500	31.168	30.880	30.906	0.627	4.210	2.029	61.300
191	9.550	31.332	33.610	33.622	0.585	1.970	1.740	50.800
192	9.600	31.496	26.960	26.974	0.532	2.250	1.972	62.500
193	9.650	31.660	29.400	29.424	0.963	3.870	3.273	57.700
194	9.700	31.824	52.110	52.116	0.651	0.940	1.249	62.700
195	9.750	31.988	54.600	54.604	0.743	0.680	1.361	42.500
196	9.800	32.152	74.680	74.679	0.648	-0.130	0.868	49.500
197	9.850	32.316	71.950	71.950	0.565	0.060	0.785	60.400
198	9.900	32.480	74.330	74.331	0.504	0.230	0.678	52.300
199	9.950	32.644	77.800	77.809	0.692	1.380	0.889	64.000
200	10.000	32.808	64.810	64.810	1.174	0.070	1.811	63.600
201	10.050	32.972	41.850	41.861	1.230	1.810	2.938	66.400
202	10.100	33.136	26.770	26.804	1.059	5.410	3.951	72.000
203	10.150	33.300	26.730	26.777	0.926	7.490	3.458	59.600
204	10.200	33.464	40.280	40.330	1.133	8.030	2.809	68.200
205	10.250	33.628	38.070	38.116	1.018	7.430	2.671	54.800
206	10.300	33.792	33.410	33.457	1.043	7.500	3.117	55.100
207	10.350	33.956	21.360	21.403	0.653	6.850	3.051	38.500
208	10.400	34.120	25.750	25.794	0.907	7.070	3.516	36.100
209	10.450	34.284	54.050	54.094	0.983	7.060	1.817	26.800
210	10.500	34.448	27.040	27.064	1.023	3.890	3.780	24.700
211	10.550	34.612	18.120	18.137	0.929	2.660	5.122	34.000
212	10.600	34.776	56.910	56.920	0.801	1.680	1.407	29.400
213	10.650	34.941	38.660	38.677	0.946	2.730	2.446	27.800
214	10.700	35.105	42.150	42.161	0.832	1.810	1.973	36.300
215	10.750	35.269	41.470	41.500	0.844	4.770	2.034	40.800
216	10.800	35.433	47.780	47.811	0.582	4.930	1.217	28.700
217	10.850	35.597	54.940	54.964	0.785	3.830	1.428	27.200
218	10.900	35.761	90.980	91.005	1.236	3.940	1.358	31.200
219	10.950	35.925	81.990	82.009	1.913	2.970	2.333	21.100
220	11.000	36.089	104.680	104.701	2.973	3.290	2.840	22.100
221	11.050	36.253	82.030	82.042	3.133	2.000	3.819	24.300
222	11.100	36.417	63.070	63.122	2.320	8.250	3.675	17.500
223	11.150	36.581	97.640	97.711	1.500	11.360	1.535	17.100
224	11.200	36.745	102.700	102.752	1.618	8.400	1.575	12.000
225	11.250	36.909	96.900	96.929	1.554	4.680	1.603	15.100
226	11.300	37.073	65.580	65.628	1.340	7.710	2.042	17.400
227	11.350	37.237	42.150	42.194	1.013	7.090	2.401	13.300
228	11.400	37.401	55.100	55.135	0.870	5.680	1.578	15.700
229	11.450	37.565	63.870	63.906	1.420	5.830	2.222	15.100
230	11.500	37.729	75.960	75.988	1.861	4.450	2.449	12.900
231	11.550	37.893	99.920	99.954	2.459	5.420	2.460	20.500
232	11.600	38.057	75.980	76.029	2.219	7.910	2.919	15.700
233	11.650	38.221	76.840	76.891	2.564	8.210	3.335	21.100
234	11.700	38.385	115.540	115.605	2.734	10.470	2.365	17.600
235	11.750	38.549	76.380	76.450	2.654	11.250	3.472	28.200
236	11.800	38.713	67.550	67.619	2.270	11.070	3.357	41.200
237	11.850	38.877	51.230	51.295	1.722	10.490	3.357	40.200
238	11.900	39.042	44.640	44.700	1.841	9.570	4.119	36.500
239	11.950	39.206	59.240	59.299	1.715	9.480	2.892	27.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	62.910	62.973	1.419	10.030	2.253	25.700
241	12.050	39.534	64.660	64.724	1.721	10.220	2.659	27.200
242	12.100	39.698	66.820	66.883	2.436	10.130	3.642	21.900
243	12.150	39.862	90.620	90.686	2.943	10.580	3.245	29.500
244	12.200	40.026	77.230	77.297	2.878	10.740	3.723	31.300
245	12.250	40.190	74.090	74.158	2.799	10.830	3.774	41.200
246	12.300	40.354	56.410	56.478	2.104	10.970	3.725	54.900
247	12.350	40.518	41.980	42.047	1.871	10.730	4.450	48.000
248	12.400	40.682	57.060	57.126	1.403	10.630	2.456	55.400
249	12.450	40.846	54.270	54.336	1.231	10.500	2.266	43.400
250	12.500	41.010	88.120	88.184	1.265	10.320	1.434	30.700
251	12.550	41.174	106.270	106.334	2.245	10.270	2.111	29.200
252	12.600	41.338	94.970	95.032	3.010	9.900	3.167	24.000
253	12.650	41.502	63.550	63.610	2.827	9.560	4.444	27.800
254	12.700	41.666	53.810	53.869	2.639	9.500	4.899	23.200
255	12.750	41.830	60.540	60.601	2.932	9.790	4.838	22.800
256	12.800	41.994	70.200	70.262	3.927	9.960	5.589	19.600
257	12.850	42.158	142.050	142.115	4.334	10.410	3.050	27.200
258	12.900	42.322	211.920	211.987	3.461	10.700	1.633	24.000
259	12.950	42.486	185.470	185.544	3.081	11.900	1.661	30.900
260	13.000	42.650	146.070	146.141	2.879	11.330	1.970	32.800
261	13.050	42.814	145.100	145.169	2.813	11.070	1.938	33.800
262	13.100	42.978	120.350	120.419	2.348	11.000	1.950	48.400
263	13.150	43.143	71.060	71.127	1.780	10.770	2.503	40.100
264	13.200	43.307	57.760	57.826	1.571	10.540	2.717	54.000
265	13.250	43.471	63.810	63.876	1.101	10.500	1.724	62.100
266	13.300	43.635	58.300	58.365	1.174	10.430	2.011	56.600
267	13.350	43.799	53.890	53.954	1.378	10.290	2.554	56.100
268	13.400	43.963	68.310	68.375	1.686	10.340	2.466	61.400
269	13.450	44.127	33.070	33.133	1.530	10.160	4.618	47.800
270	13.500	44.291	50.520	50.584	1.983	10.210	3.920	53.700
271	13.550	44.455	115.210	115.275	2.337	10.350	2.027	50.900
272	13.600	44.619	93.020	93.084	2.799	10.290	3.007	39.400
273	13.650	44.783	108.950	109.015	3.128	10.370	2.869	54.600
274	13.700	44.947	84.370	84.429	2.402	9.500	2.845	53.200
275	13.750	45.111	88.030	88.091	1.943	9.750	2.206	67.800
276	13.800	45.275	50.510	50.573	1.609	10.070	3.182	73.500
277	13.850	45.439	52.260	52.324	1.601	10.220	3.060	76.500
278	13.900	45.603	94.640	94.704	1.527	10.320	1.612	74.400
279	13.950	45.767	56.250	56.314	1.581	10.230	2.807	67.400
280	14.000	45.931	60.440	60.504	1.741	10.220	2.878	82.500
281	14.050	46.095	66.250	66.314	1.685	10.270	2.541	79.500
282	14.100	46.259	64.910	64.973	1.621	10.120	2.495	64.400
283	14.150	46.423	56.900	56.964	1.595	10.200	2.800	67.600
284	14.200	46.587	75.040	75.104	1.699	10.310	2.262	64.700
285	14.250	46.751	74.850	74.914	2.078	10.240	2.774	70.700
286	14.300	46.915	56.080	56.145	1.978	10.350	3.523	79.900
287	14.350	47.079	123.590	123.657	2.146	10.800	1.735	100.600
288	14.400	47.244	133.080	133.148	2.636	10.920	1.980	82.500
289	14.450	47.408	88.290	88.357	2.890	10.790	3.271	85.300
290	14.500	47.572	85.420	85.488	2.791	10.950	3.265	104.000
291	14.550	47.736	86.220	86.292	2.683	11.470	3.109	91.400
292	14.600	47.900	68.120	68.191	2.800	11.370	4.106	94.000
293	14.650	48.064	61.420	61.491	2.122	11.350	3.451	87.100
294	14.700	48.228	107.180	107.254	1.962	11.910	1.829	82.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	103.560	103.634	1.878	11.780	1.812	79.100
296	14.800	48.556	71.270	71.343	1.757	11.620	2.463	97.500
297	14.850	48.720	48.390	48.462	1.470	11.490	3.033	102.300
298	14.900	48.884	30.920	30.991	1.170	11.450	3.775	93.700
299	14.950	49.048	23.870	23.941	0.797	11.400	3.329	81.800
300	15.000	49.212	25.160	25.232	0.502	11.460	1.990	97.300
301	15.050	49.376	30.400	30.471	0.491	11.430	1.611	93.700
302	15.100	49.540	32.990	33.062	0.527	11.460	1.594	87.900
303	15.150	49.704	37.790	37.862	0.561	11.530	1.482	86.900
304	15.200	49.868	34.700	34.772	0.666	11.520	1.915	94.400
305	15.250	50.032	35.040	35.112	0.868	11.530	2.472	90.600
306	15.300	50.196	36.770	36.842	0.803	11.540	2.180	87.500
307	15.350	50.360	33.350	33.423	0.818	11.660	2.447	96.400
308	15.400	50.524	29.890	29.962	0.776	11.570	2.590	81.700
309	15.450	50.688	39.980	40.052	0.932	11.610	2.327	87.900
310	15.500	50.852	50.130	50.203	1.131	11.730	2.253	85.000
311	15.550	51.016	61.430	61.503	1.348	11.710	2.192	92.700
312	15.600	51.180	74.480	74.553	1.534	11.650	2.058	90.800
313	15.650	51.345	64.280	64.352	1.411	11.490	2.193	96.800
314	15.700	51.509	54.060	54.130	1.160	11.250	2.143	0.000
315	15.750	51.673	56.720	56.790	1.121	11.180	1.974	0.000
316	15.800	51.837	52.340	52.410	0.818	11.180	1.561	0.000
317	15.850	52.001	44.760	44.829	0.791	11.100	1.764	0.000
318	15.900	52.165	32.980	33.049	0.782	11.070	2.366	0.000
319	15.950	52.329	26.800	26.870	0.653	11.170	2.430	0.000
320	16.000	52.493	27.400	27.470	0.771	11.200	2.807	0.000
321	16.050	52.657	28.610	28.680	0.866	11.290	3.019	0.000
322	16.100	52.821	55.850	55.922	1.185	11.560	2.119	0.000
323	16.150	52.985	121.090	121.162	1.702	11.590	1.405	0.000
324	16.200	53.149	174.500	174.573	2.095	11.680	1.200	0.000
325	16.250	53.313	208.350	208.423	2.484	11.620	1.192	0.000
326	16.300	53.477	203.810	203.883	2.788	11.640	1.367	0.000
327	16.350	53.641	202.340	202.414	2.986	11.790	1.475	0.000
328	16.400	53.805	217.730	217.803	2.931	11.630	1.346	0.000
329	16.450	53.969	269.680	269.753	0.000	11.690	0.000	0.000
330	16.500	54.133	325.190	325.265	0.000	11.960	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221580
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-10-4
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-18-2013
CPT Time:	10:16
CPT File:	13-53075_GP10-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722204.677
Northing / Lat:	4294313.929
Elevation:	147.273
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth m	Depth ft	qc tsf	qt tsf	fs tsf	u ft	Rf %	Gamma cps
1	0.050	0.164	0.290	0.290	0.038	-0.050	13.118	0.000
2	0.100	0.328	29.490	29.492	0.096	0.360	0.326	0.000
3	0.150	0.492	34.000	34.003	0.101	0.520	0.297	0.000
4	0.200	0.656	47.240	47.245	0.100	0.830	0.212	0.000
5	0.250	0.820	65.710	65.712	0.252	0.330	0.383	0.000
6	0.300	0.984	89.060	89.070	0.310	1.660	0.348	0.000
7	0.350	1.148	91.860	91.884	0.475	3.780	0.517	0.000
8	0.400	1.312	85.260	85.295	0.312	5.630	0.366	0.000
9	0.450	1.476	76.050	76.067	0.463	2.670	0.609	0.000
10	0.500	1.640	65.610	65.661	0.522	8.090	0.795	0.000
11	0.550	1.804	46.640	46.683	0.606	6.810	1.298	0.000
12	0.600	1.968	54.630	54.654	1.102	3.830	2.016	0.000
13	0.650	2.133	73.400	73.413	3.111	2.040	4.238	0.000
14	0.700	2.297	148.170	148.189	4.838	3.100	3.265	0.000
15	0.750	2.461	368.650	368.650	0.000	0.080	0.000	0.000
16	0.800	2.625	441.740	441.742	0.000	0.400	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221583
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-11-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	07:55
CPT File:	13-53075_GP11-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722211.153
Northing / Lat:	4294363.428
Elevation:	146.134
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.950	1.951	0.011	0.090	0.564	153.500
2	0.100	0.328	25.200	25.205	0.041	0.840	0.163	64.600
3	0.150	0.492	31.060	31.070	0.068	1.570	0.219	43.800
4	0.200	0.656	29.150	29.163	0.077	2.030	0.264	49.400
5	0.250	0.820	29.630	29.644	0.123	2.180	0.415	59.200
6	0.300	0.984	29.450	29.464	0.193	2.290	0.655	73.800
7	0.350	1.148	27.800	27.818	0.319	2.890	1.147	75.400
8	0.400	1.312	12.870	12.897	0.427	4.340	3.311	77.100
9	0.450	1.476	10.770	10.787	0.507	2.720	4.700	96.000
10	0.500	1.640	12.010	12.023	0.485	2.070	4.034	96.100
11	0.550	1.804	16.040	16.071	0.500	4.990	3.111	103.400
12	0.600	1.968	24.660	24.683	0.599	3.710	2.427	106.900
13	0.650	2.133	31.710	31.733	0.641	3.740	2.020	80.600
14	0.700	2.297	34.600	34.627	1.430	4.270	4.130	75.300
15	0.750	2.461	42.400	42.424	2.246	3.840	5.294	69.400
16	0.800	2.625	205.130	205.166	1.764	5.780	0.860	64.800
17	0.850	2.789	187.870	187.890	1.144	3.180	0.609	56.600
18	0.900	2.953	105.310	105.325	4.737	2.360	4.498	57.200
19	0.950	3.117	95.810	95.822	4.408	1.970	4.600	66.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	43.290	43.315	3.093	4.060	7.141	64.800
21	1.050	3.445	31.000	31.025	1.119	3.950	3.607	70.400
22	1.100	3.609	24.720	24.736	0.847	2.530	3.424	77.700
23	1.150	3.773	23.290	23.302	0.984	1.970	4.223	74.500
24	1.200	3.937	49.340	49.353	1.223	2.100	2.478	83.400
25	1.250	4.101	41.620	41.631	1.351	1.790	3.245	100.000
26	1.300	4.265	25.410	25.427	1.377	2.680	5.416	89.800
27	1.350	4.429	33.360	33.379	1.540	2.980	4.614	94.900
28	1.400	4.593	31.980	31.996	1.221	2.570	3.816	85.800
29	1.450	4.757	61.900	61.904	2.490	0.640	4.022	69.100
30	1.500	4.921	113.830	113.848	2.198	2.840	1.931	68.200
31	1.550	5.085	73.680	73.688	0.949	1.210	1.288	54.600
32	1.600	5.249	93.690	93.696	1.869	1.010	1.995	75.900
33	1.650	5.413	115.960	115.976	1.839	2.590	1.586	75.000
34	1.700	5.577	62.100	62.103	2.214	0.550	3.565	66.900
35	1.750	5.741	43.970	43.981	2.064	1.690	4.693	70.900
36	1.800	5.905	37.760	37.792	1.449	5.140	3.834	72.000
37	1.850	6.069	25.720	25.745	1.003	3.960	3.896	77.600
38	1.900	6.234	18.830	18.852	0.805	3.540	4.270	77.900
39	1.950	6.398	20.120	20.140	0.714	3.180	3.545	93.300
40	2.000	6.562	21.590	21.598	0.824	1.210	3.815	88.300
41	2.050	6.726	25.470	25.478	0.838	1.250	3.289	70.900
42	2.100	6.890	17.200	17.213	0.902	2.100	5.240	78.600
43	2.150	7.054	17.710	17.728	0.985	2.850	5.556	81.300
44	2.200	7.218	20.240	20.254	0.830	2.280	4.098	82.900
45	2.250	7.382	13.600	13.612	0.768	1.870	5.642	77.500
46	2.300	7.546	12.260	12.271	0.655	1.750	5.338	71.400
47	2.350	7.710	12.470	12.479	0.553	1.520	4.431	82.900
48	2.400	7.874	12.600	12.598	0.388	-0.310	3.080	91.200
49	2.450	8.038	16.100	16.093	0.423	-1.150	2.629	88.600
50	2.500	8.202	15.020	15.017	0.335	-0.410	2.231	85.700
51	2.550	8.366	13.620	13.616	0.443	-0.590	3.253	84.100
52	2.600	8.530	12.410	12.409	0.423	-0.210	3.409	85.500
53	2.650	8.694	9.580	9.583	0.439	0.550	4.581	87.700
54	2.700	8.858	8.000	8.004	0.379	0.650	4.735	90.000
55	2.750	9.022	8.560	8.566	0.353	0.890	4.121	88.800
56	2.800	9.186	8.780	8.786	0.335	0.980	3.813	94.500
57	2.850	9.350	11.000	11.003	0.310	0.560	2.817	84.400
58	2.900	9.514	11.830	11.831	0.407	0.180	3.440	84.200
59	2.950	9.678	15.120	15.116	0.264	-0.600	1.746	86.400
60	3.000	9.842	23.410	23.405	0.238	-0.760	1.017	75.600
61	3.050	10.006	31.540	31.542	0.481	0.370	1.525	76.900
62	3.100	10.170	135.500	135.507	1.081	1.170	0.798	79.000
63	3.150	10.335	214.360	214.369	1.072	1.490	0.500	81.200
64	3.200	10.499	175.020	175.023	2.249	0.410	1.285	75.500
65	3.250	10.663	87.560	87.560	1.898	-0.050	2.168	85.700
66	3.300	10.827	61.000	61.007	1.764	1.100	2.891	92.600
67	3.350	10.991	41.320	41.341	1.808	3.430	4.373	83.900
68	3.400	11.155	45.650	45.674	0.722	3.880	1.581	89.400
69	3.450	11.319	38.180	38.195	0.854	2.370	2.236	89.500
70	3.500	11.483	32.970	32.975	0.838	0.770	2.541	87.300
71	3.550	11.647	33.450	33.472	0.845	3.580	2.524	72.100
72	3.600	11.811	27.250	27.255	0.653	0.830	2.396	61.000
73	3.650	11.975	25.850	25.850	0.625	0.020	2.418	60.100
74	3.700	12.139	26.690	26.698	0.613	1.220	2.296	42.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	41.070	41.091	1.011	3.430	2.460	40.100
76	3.800	12.467	35.790	35.807	1.203	2.740	3.360	36.900
77	3.850	12.631	45.680	45.710	1.181	4.840	2.584	35.800
78	3.900	12.795	74.040	74.069	1.259	4.610	1.700	34.200
79	3.950	12.959	66.640	66.684	1.236	7.070	1.854	56.700
80	4.000	13.123	37.510	37.548	1.143	6.050	3.044	71.100
81	4.050	13.287	24.020	24.020	1.060	0.080	4.413	80.100
82	4.100	13.451	21.280	21.293	0.750	2.010	3.522	84.400
83	4.150	13.615	14.640	14.644	0.554	0.640	3.783	85.300
84	4.200	13.779	12.420	12.424	0.383	0.690	3.083	71.400
85	4.250	13.943	12.970	12.966	0.264	-0.640	2.036	74.100
86	4.300	14.107	18.920	18.989	0.262	11.020	1.380	82.900
87	4.350	14.271	13.740	13.780	0.347	6.450	2.518	64.700
88	4.400	14.436	12.520	12.555	0.468	5.530	3.728	68.500
89	4.450	14.600	28.560	28.586	0.723	4.240	2.529	78.400
90	4.500	14.764	21.510	21.519	0.720	1.460	3.346	72.800
91	4.550	14.928	12.110	12.147	0.712	6.000	5.861	84.700
92	4.600	15.092	14.100	14.154	0.462	8.650	3.264	89.200
93	4.650	15.256	11.520	11.565	0.495	7.170	4.280	77.700
94	4.700	15.420	9.090	9.142	0.393	8.270	4.299	75.900
95	4.750	15.584	15.050	15.117	0.376	10.680	2.487	64.900
96	4.800	15.748	19.280	19.339	0.330	9.410	1.706	52.900
97	4.850	15.912	32.880	32.922	0.544	6.790	1.652	44.600
98	4.900	16.076	23.430	23.460	0.343	4.830	1.462	52.000
99	4.950	16.240	10.900	10.916	0.318	2.500	2.913	54.800
100	5.000	16.404	25.060	25.074	0.403	2.250	1.607	47.700
101	5.050	16.568	29.230	29.247	0.483	2.790	1.651	55.500
102	5.100	16.732	22.640	22.651	0.722	1.700	3.188	63.800
103	5.150	16.896	20.360	20.387	0.727	4.320	3.566	82.200
104	5.200	17.060	11.210	11.319	0.678	17.440	5.990	94.200
105	5.250	17.224	10.640	10.710	0.491	11.230	4.584	106.000
106	5.300	17.388	14.810	14.932	0.420	19.470	2.813	101.400
107	5.350	17.552	12.970	13.073	0.364	16.510	2.784	80.600
108	5.400	17.716	11.980	12.095	0.417	18.410	3.448	75.000
109	5.450	17.880	19.160	19.296	0.540	21.860	2.798	50.100
110	5.500	18.044	49.000	49.069	0.561	11.050	1.143	43.600
111	5.550	18.208	82.120	82.161	0.596	6.520	0.725	47.900
112	5.600	18.372	49.380	49.405	0.856	3.990	1.733	46.500
113	5.650	18.537	52.650	52.667	0.984	2.680	1.868	50.900
114	5.700	18.701	114.030	114.038	1.031	1.240	0.904	49.600
115	5.750	18.865	127.440	127.446	1.175	0.960	0.922	47.000
116	5.800	19.029	139.460	139.476	1.958	2.490	1.404	58.500
117	5.850	19.193	116.900	116.908	2.206	1.250	1.887	82.600
118	5.900	19.357	76.970	76.976	1.394	1.030	1.811	106.300
119	5.950	19.521	30.670	30.715	1.470	7.130	4.786	109.400
120	6.000	19.685	45.000	45.075	1.280	11.990	2.840	98.800
121	6.050	19.849	56.470	56.529	1.301	9.520	2.301	96.400
122	6.100	20.013	65.800	65.816	1.440	2.590	2.188	90.400
123	6.150	20.177	72.390	72.386	1.512	-0.590	2.089	86.700
124	6.200	20.341	75.330	75.318	1.854	-1.970	2.462	88.900
125	6.250	20.505	66.830	66.793	1.704	-5.920	2.551	87.800
126	6.300	20.669	35.350	35.304	1.648	-7.290	4.668	77.100
127	6.350	20.833	30.970	30.921	1.331	-7.890	4.305	64.300
128	6.400	20.997	23.560	23.500	1.033	-9.620	4.396	54.200
129	6.450	21.161	34.630	34.591	0.841	-6.260	2.431	47.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	23.360	23.342	0.776	-2.920	3.325	38.100
131	6.550	21.489	49.150	49.148	0.666	-0.350	1.355	36.900
132	6.600	21.653	96.700	96.701	1.487	0.100	1.538	31.200
133	6.650	21.817	91.780	91.779	1.050	-0.180	1.144	24.900
134	6.700	21.981	37.410	37.410	1.266	0.030	3.384	30.700
135	6.750	22.145	76.880	76.874	2.372	-0.970	3.086	33.300
136	6.800	22.309	27.900	27.900	1.849	-0.070	6.627	30.200
137	6.850	22.473	69.370	69.368	1.413	-0.260	2.037	39.200
138	6.900	22.638	47.990	47.987	1.310	-0.490	2.730	39.400
139	6.950	22.802	31.660	31.660	0.940	-0.080	2.969	34.800
140	7.000	22.966	29.610	29.610	1.170	-0.020	3.951	39.700
141	7.050	23.130	48.730	48.737	1.812	1.090	3.718	27.300
142	7.100	23.294	193.920	193.957	2.722	5.920	1.403	24.800
143	7.150	23.458	245.420	245.473	3.336	8.550	1.359	15.200
144	7.200	23.622	215.690	215.731	4.086	6.630	1.894	15.200
145	7.250	23.786	148.320	148.362	4.151	6.680	2.798	21.800
146	7.300	23.950	111.340	111.374	4.067	5.370	3.652	20.800
147	7.350	24.114	46.730	46.726	2.728	-0.720	5.838	24.900
148	7.400	24.278	40.200	40.234	1.936	5.480	4.812	24.900
149	7.450	24.442	75.390	75.422	1.190	5.200	1.578	20.400
150	7.500	24.606	21.000	21.012	1.257	1.980	5.982	29.400
151	7.550	24.770	18.670	18.695	1.119	3.980	5.986	28.900
152	7.600	24.934	13.730	13.783	0.706	8.410	5.122	33.200
153	7.650	25.098	18.440	18.508	0.721	10.970	3.896	38.400
154	7.700	25.262	13.380	13.443	0.500	10.100	3.719	28.400
155	7.750	25.426	32.240	32.305	0.542	10.410	1.678	19.200
156	7.800	25.590	15.170	15.219	0.507	7.860	3.331	20.800
157	7.850	25.754	6.090	6.107	0.613	2.740	10.037	17.200
158	7.900	25.918	27.160	27.172	0.614	1.970	2.260	15.900
159	7.950	26.082	26.240	26.277	0.755	5.850	2.873	16.100
160	8.000	26.246	17.650	17.661	0.897	1.820	5.079	8.300
161	8.050	26.410	18.200	18.210	0.842	1.540	4.624	13.500
162	8.100	26.574	22.060	22.066	0.799	0.900	3.621	15.800
163	8.150	26.739	19.180	19.210	0.993	4.840	5.169	17.400
164	8.200	26.903	22.360	22.413	1.304	8.410	5.818	18.500
165	8.250	27.067	26.380	26.437	1.150	9.200	4.350	16.200
166	8.300	27.231	29.570	29.609	1.442	6.220	4.870	21.500
167	8.350	27.395	30.210	30.216	1.150	0.960	3.806	27.300
168	8.400	27.559	27.960	27.977	1.124	2.700	4.018	18.500
169	8.450	27.723	50.350	50.376	1.245	4.160	2.471	22.400
170	8.500	27.887	35.370	35.395	1.764	3.990	4.984	26.700
171	8.550	28.051	48.220	48.249	1.882	4.570	3.901	30.900
172	8.600	28.215	24.630	24.683	1.665	8.460	6.746	36.200
173	8.650	28.379	23.000	22.990	1.365	-1.590	5.937	37.900
174	8.700	28.543	27.600	27.590	1.035	-1.560	3.751	30.800
175	8.750	28.707	32.620	32.621	0.998	0.120	3.059	26.600
176	8.800	28.871	43.420	43.424	1.179	0.700	2.715	20.600
177	8.850	29.035	38.410	38.431	1.258	3.430	3.273	19.300
178	8.900	29.199	28.870	28.934	1.456	10.180	5.032	19.000
179	8.950	29.363	33.130	33.203	1.282	11.660	3.861	17.900
180	9.000	29.527	27.320	27.355	1.160	5.590	4.241	22.500
181	9.050	29.691	25.950	26.000	0.972	7.970	3.738	19.200
182	9.100	29.855	25.370	25.394	1.037	3.900	4.084	13.700
183	9.150	30.019	33.880	33.916	1.160	5.840	3.420	16.400
184	9.200	30.183	43.200	43.231	1.424	4.970	3.294	22.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	42.250	42.292	1.847	6.680	4.367	20.500
186	9.300	30.511	45.270	45.316	1.702	7.430	3.756	33.200
187	9.350	30.675	31.570	31.590	1.578	3.130	4.995	26.000
188	9.400	30.840	28.460	28.486	0.870	4.240	3.054	35.600
189	9.450	31.004	20.610	20.627	0.833	2.700	4.038	43.400
190	9.500	31.168	26.050	26.050	0.834	0.010	3.202	50.900
191	9.550	31.332	44.460	44.482	1.064	3.540	2.392	69.200
192	9.600	31.496	73.040	73.068	1.298	4.460	1.776	65.600
193	9.650	31.660	79.900	79.918	1.498	2.900	1.874	88.000
194	9.700	31.824	79.900	79.922	1.687	3.480	2.111	81.100
195	9.750	31.988	65.510	65.533	1.765	3.680	2.693	76.300
196	9.800	32.152	56.630	56.652	1.726	3.600	3.047	76.600
197	9.850	32.316	54.300	54.321	1.423	3.430	2.620	67.600
198	9.900	32.480	81.630	81.653	1.247	3.750	1.527	60.100
199	9.950	32.644	73.680	73.694	1.182	2.300	1.604	62.500
200	10.000	32.808	79.030	79.050	1.062	3.210	1.343	61.500
201	10.050	32.972	81.820	81.839	1.059	3.120	1.294	58.300
202	10.100	33.136	82.830	82.850	1.270	3.170	1.533	56.500
203	10.150	33.300	80.140	80.160	1.770	3.180	2.208	48.000
204	10.200	33.464	80.020	80.041	1.487	3.300	1.858	41.700
205	10.250	33.628	93.750	93.772	3.138	3.600	3.346	30.300
206	10.300	33.792	107.780	107.806	3.197	4.090	2.966	24.700
207	10.350	33.956	61.460	61.512	3.638	8.330	5.914	27.800
208	10.400	34.120	69.460	69.525	2.459	10.440	3.537	26.600
209	10.450	34.284	51.100	51.164	2.580	10.270	5.043	30.800
210	10.500	34.448	62.110	62.156	1.565	7.370	2.518	33.200
211	10.550	34.612	156.970	157.014	0.859	7.100	0.547	41.900
212	10.600	34.776	229.530	229.569	1.179	6.250	0.514	57.100
213	10.650	34.941	83.820	83.829	1.530	1.480	1.825	79.600
214	10.700	35.105	45.580	45.601	1.484	3.320	3.254	74.600
215	10.750	35.269	29.060	29.102	1.246	6.680	4.282	83.900
216	10.800	35.433	38.160	38.209	1.369	7.870	3.583	76.100
217	10.850	35.597	32.730	32.774	1.356	7.100	4.137	85.100
218	10.900	35.761	28.490	28.535	1.469	7.130	5.148	86.200
219	10.950	35.925	26.790	26.834	1.435	7.080	5.348	91.900
220	11.000	36.089	23.790	23.835	1.476	7.240	6.193	85.500
221	11.050	36.253	38.050	38.103	1.212	8.440	3.181	83.200
222	11.100	36.417	54.460	54.512	1.025	8.290	1.880	82.700
223	11.150	36.581	67.470	67.520	0.930	8.060	1.377	82.500
224	11.200	36.745	72.880	72.930	1.048	7.950	1.437	83.100
225	11.250	36.909	76.870	76.918	1.152	7.660	1.498	84.000
226	11.300	37.073	75.080	75.125	1.231	7.210	1.639	83.200
227	11.350	37.237	71.570	71.613	1.329	6.900	1.856	81.000
228	11.400	37.401	68.390	68.432	1.385	6.740	2.024	75.900
229	11.450	37.565	66.520	66.561	1.653	6.600	2.483	80.200
230	11.500	37.729	54.380	54.419	2.109	6.210	3.876	65.300
231	11.550	37.893	45.260	45.299	1.998	6.210	4.411	54.400
232	11.600	38.057	55.810	55.847	1.790	5.860	3.205	58.200
233	11.650	38.221	26.440	26.458	1.444	2.890	5.458	56.200
234	11.700	38.385	15.300	15.308	1.138	1.270	7.434	61.600
235	11.750	38.549	18.430	18.431	0.486	0.130	2.637	60.000
236	11.800	38.713	28.960	28.967	0.423	1.180	1.460	64.900
237	11.850	38.877	51.490	51.496	0.831	0.960	1.614	70.000
238	11.900	39.042	42.080	42.090	1.170	1.540	2.780	55.600
239	11.950	39.206	37.270	37.285	1.314	2.390	3.524	72.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	43.650	43.672	1.206	3.460	2.762	71.200
241	12.050	39.534	53.160	53.178	1.120	2.830	2.106	68.300
242	12.100	39.698	70.050	70.076	1.367	4.110	1.951	64.000
243	12.150	39.862	84.460	84.480	1.820	3.180	2.154	73.700
244	12.200	40.026	40.170	40.189	1.808	3.070	4.499	71.200
245	12.250	40.190	24.700	24.722	1.586	3.460	6.415	83.300
246	12.300	40.354	30.080	30.113	1.284	5.260	4.264	69.000
247	12.350	40.518	78.010	78.052	1.712	6.670	2.193	67.100
248	12.400	40.682	78.330	78.371	2.461	6.500	3.140	63.300
249	12.450	40.846	77.390	77.432	3.035	6.690	3.920	50.100
250	12.500	41.010	51.090	51.139	2.515	7.910	4.918	58.800
251	12.550	41.174	53.310	53.357	2.321	7.450	4.350	65.000
252	12.600	41.338	65.860	65.903	2.100	6.910	3.186	60.800
253	12.650	41.502	55.810	55.850	1.940	6.430	3.474	62.100
254	12.700	41.666	88.620	88.665	2.372	7.140	2.675	51.300
255	12.750	41.830	85.170	85.219	2.376	7.850	2.788	68.500
256	12.800	41.994	53.580	53.636	2.580	8.990	4.810	89.900
257	12.850	42.158	36.760	36.819	1.704	9.470	4.628	93.500
258	12.900	42.322	29.650	29.714	1.452	10.280	4.887	104.800
259	12.950	42.486	28.520	28.588	1.393	10.840	4.873	100.800
260	13.000	42.650	28.080	28.149	1.500	11.000	5.329	99.700
261	13.050	42.814	27.100	27.170	1.499	11.180	5.517	112.100
262	13.100	42.978	26.690	26.760	1.391	11.190	5.198	106.200
263	13.150	43.143	25.680	25.750	1.305	11.220	5.068	114.000
264	13.200	43.307	24.800	24.871	1.204	11.300	4.841	94.900
265	13.250	43.471	23.520	23.591	1.083	11.370	4.591	104.400
266	13.300	43.635	22.170	22.241	0.964	11.360	4.334	102.600
267	13.350	43.799	21.630	21.702	0.835	11.540	3.848	95.700
268	13.400	43.963	29.630	29.702	0.978	11.540	3.293	98.500
269	13.450	44.127	44.780	44.852	1.171	11.560	2.611	99.900
270	13.500	44.291	52.620	52.681	1.267	9.700	2.405	89.200
271	13.550	44.455	35.970	36.029	0.961	9.380	2.667	88.300
272	13.600	44.619	25.540	25.599	0.683	9.520	2.668	98.800
273	13.650	44.783	20.230	20.294	0.544	10.200	2.681	92.300
274	13.700	44.947	20.860	20.933	0.515	11.760	2.460	99.500
275	13.750	45.111	32.810	32.892	0.695	13.190	2.113	96.000
276	13.800	45.275	54.500	54.585	0.917	13.580	1.680	93.200
277	13.850	45.439	61.040	61.118	1.176	12.440	1.924	91.800
278	13.900	45.603	53.850	53.924	1.215	11.850	2.253	90.600
279	13.950	45.767	50.930	51.003	1.278	11.690	2.506	87.700
280	14.000	45.931	49.360	49.432	1.345	11.460	2.721	98.100
281	14.050	46.095	53.910	53.956	1.546	7.400	2.865	89.000
282	14.100	46.259	61.740	61.785	1.549	7.260	2.507	85.100
283	14.150	46.423	76.750	76.796	1.600	7.290	2.083	88.600
284	14.200	46.587	96.730	96.775	1.687	7.180	1.743	93.200
285	14.250	46.751	81.560	81.604	1.844	6.990	2.260	87.400
286	14.300	46.915	74.960	75.003	2.214	6.940	2.952	85.100
287	14.350	47.079	91.840	91.884	2.549	7.060	2.774	94.300
288	14.400	47.244	136.050	136.095	1.256	7.280	0.923	94.800
289	14.450	47.408	180.890	180.936	2.662	7.410	1.471	99.100
290	14.500	47.572	134.900	134.946	3.355	7.390	2.486	86.000
291	14.550	47.736	250.190	250.239	4.332	7.780	1.731	77.100
292	14.600	47.900	265.710	265.763	5.360	8.540	2.017	77.700
293	14.650	48.064	255.980	256.035	5.534	8.770	2.161	81.500
294	14.700	48.228	260.790	260.848	5.457	9.250	2.092	77.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	285.960	286.020	5.802	9.560	2.029	0.000
296	14.800	48.556	294.030	294.093	6.236	10.170	2.120	0.000
297	14.850	48.720	287.890	287.957	6.215	10.700	2.158	0.000
298	14.900	48.884	251.530	251.599	6.781	11.130	2.695	0.000
299	14.950	49.048	239.040	239.111	6.276	11.380	2.625	0.000
300	15.000	49.212	166.040	166.112	5.300	11.490	3.191	0.000
301	15.050	49.376	151.110	151.182	4.248	11.490	2.810	0.000
302	15.100	49.540	126.600	126.669	3.566	11.110	2.815	0.000
303	15.150	49.704	115.850	115.918	3.008	10.860	2.595	0.000
304	15.200	49.868	111.860	111.927	2.539	10.670	2.268	0.000
305	15.250	50.032	109.570	109.635	2.224	10.360	2.029	0.000
306	15.300	50.196	115.520	115.582	2.375	9.980	2.055	0.000
307	15.350	50.360	130.820	130.880	2.550	9.580	1.948	0.000
308	15.400	50.524	145.350	145.409	2.705	9.510	1.860	0.000
309	15.450	50.688	154.070	154.126	0.000	8.920	0.000	0.000
310	15.500	50.852	172.060	172.116	0.000	8.910	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221585
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-11-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-20-2013
CPT Time:	13:04
CPT File:	13-53075_GP11-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722216.074
Northing / Lat:	4294346.811
Elevation:	144.604
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	17.770	17.770	0.037	0.080	0.208	28.200
2	0.100	0.328	25.400	25.401	0.081	0.130	0.319	41.100
3	0.150	0.492	30.630	30.629	0.169	-0.110	0.552	39.100
4	0.200	0.656	37.790	37.790	0.178	0.060	0.471	51.200
5	0.250	0.820	32.110	32.112	0.372	0.290	1.158	61.800
6	0.300	0.984	35.350	35.351	0.506	0.140	1.431	68.300
7	0.350	1.148	14.180	14.187	0.525	1.110	3.701	62.700
8	0.400	1.312	12.310	12.321	0.809	1.720	6.566	84.900
9	0.450	1.476	14.900	14.933	0.723	5.270	4.842	76.600
10	0.500	1.640	55.650	55.608	0.957	-6.800	1.721	102.400
11	0.550	1.804	28.480	28.485	1.477	0.860	5.185	85.800
12	0.600	1.968	43.010	43.007	1.675	-0.430	3.895	106.700
13	0.650	2.133	46.150	46.140	2.090	-1.570	4.530	104.400
14	0.700	2.297	48.070	48.053	2.338	-2.750	4.865	93.500
15	0.750	2.461	50.740	50.723	2.113	-2.660	4.166	105.700
16	0.800	2.625	65.060	65.045	2.306	-2.410	3.545	101.900
17	0.850	2.789	67.890	67.888	2.829	-0.390	4.167	89.300
18	0.900	2.953	85.890	85.891	2.233	0.110	2.600	106.800
19	0.950	3.117	83.970	83.973	1.684	0.470	2.005	96.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	54.920	54.918	1.720	-0.350	3.132	97.900
21	1.050	3.445	44.040	44.048	2.430	1.300	5.517	103.400
22	1.100	3.609	41.500	41.507	1.037	1.160	2.498	101.500
23	1.150	3.773	28.500	28.500	0.592	0.020	2.077	95.500
24	1.200	3.937	29.180	29.180	0.650	0.040	2.228	95.100
25	1.250	4.101	31.040	31.039	0.625	-0.230	2.014	93.100
26	1.300	4.265	16.090	16.089	0.463	-0.160	2.878	86.900
27	1.350	4.429	16.160	16.159	0.332	-0.230	2.055	107.700
28	1.400	4.593	27.080	27.078	0.407	-0.300	1.503	88.600
29	1.450	4.757	31.790	31.790	0.454	-0.080	1.428	70.800
30	1.500	4.921	26.500	26.501	0.478	0.170	1.804	75.000
31	1.550	5.085	63.900	63.901	1.054	0.210	1.649	90.400
32	1.600	5.249	42.770	42.770	1.246	0.050	2.913	89.500
33	1.650	5.413	31.290	31.301	1.308	1.730	4.179	91.900
34	1.700	5.577	26.880	26.875	1.005	-0.850	3.740	90.300
35	1.750	5.741	25.530	25.525	0.897	-0.760	3.514	92.300
36	1.800	5.905	25.590	25.588	1.052	-0.390	4.111	84.300
37	1.850	6.069	23.090	23.092	1.193	0.280	5.166	82.000
38	1.900	6.234	27.350	27.347	1.028	-0.550	3.759	71.000
39	1.950	6.398	26.540	26.540	1.561	-0.030	5.882	68.000
40	2.000	6.562	42.940	42.946	2.435	0.960	5.670	61.700
41	2.050	6.726	35.600	35.604	2.978	0.710	8.364	54.500
42	2.100	6.890	53.410	53.409	2.761	-0.140	5.170	54.700
43	2.150	7.054	17.810	17.810	1.336	0.030	7.501	54.600
44	2.200	7.218	20.970	20.985	2.175	2.360	10.365	53.200
45	2.250	7.382	40.870	40.851	2.387	-2.970	5.843	49.500
46	2.300	7.546	18.050	18.043	2.609	-1.120	14.460	48.600
47	2.350	7.710	25.380	25.377	1.826	-0.470	7.195	49.600
48	2.400	7.874	27.040	27.040	1.832	-0.020	6.775	49.500
49	2.450	8.038	181.250	181.253	2.543	0.500	1.403	46.400
50	2.500	8.202	124.530	124.533	2.726	0.520	2.189	60.800
51	2.550	8.366	87.510	87.508	1.497	-0.250	1.711	64.800
52	2.600	8.530	126.720	126.714	1.239	-0.930	0.978	66.900
53	2.650	8.694	212.380	212.377	1.582	-0.410	0.745	76.800
54	2.700	8.858	103.020	103.016	2.602	-0.690	2.526	80.800
55	2.750	9.022	60.280	60.291	2.947	1.800	4.888	82.900
56	2.800	9.186	72.210	72.247	2.409	5.970	3.334	95.700
57	2.850	9.350	60.430	60.393	2.029	-5.850	3.360	95.300
58	2.900	9.514	54.590	54.535	2.068	-8.790	3.792	106.800
59	2.950	9.678	58.730	58.664	1.958	-10.570	3.338	92.200
60	3.000	9.842	59.800	59.725	1.692	-12.060	2.833	92.900
61	3.050	10.006	68.250	68.382	1.726	21.090	2.524	88.800
62	3.100	10.170	71.150	71.154	1.975	0.620	2.776	90.900
63	3.150	10.335	60.130	60.120	2.046	-1.600	3.403	74.300
64	3.200	10.499	44.250	44.226	1.661	-3.840	3.756	58.400
65	3.250	10.663	29.620	29.589	1.137	-4.900	3.843	52.500
66	3.300	10.827	37.140	37.132	0.907	-1.230	2.443	38.500
67	3.350	10.991	29.850	29.843	0.566	-1.130	1.897	32.500
68	3.400	11.155	40.330	40.325	0.840	-0.840	2.083	34.300
69	3.450	11.319	35.250	35.260	0.660	1.620	1.872	25.500
70	3.500	11.483	34.070	34.079	0.874	1.490	2.565	31.700
71	3.550	11.647	30.180	30.188	0.558	1.250	1.848	25.900
72	3.600	11.811	58.510	58.518	1.342	1.330	2.293	42.500
73	3.650	11.975	105.190	105.207	1.863	2.750	1.771	44.200
74	3.700	12.139	46.540	46.556	1.984	2.530	4.262	44.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	19.660	19.671	1.756	1.820	8.927	42.300
76	3.800	12.467	42.120	42.133	1.507	2.130	3.577	54.400
77	3.850	12.631	47.070	47.086	1.416	2.610	3.007	50.300
78	3.900	12.795	22.590	22.610	1.015	3.180	4.489	58.500
79	3.950	12.959	16.400	16.419	0.845	3.030	5.147	71.300
80	4.000	13.123	18.500	18.530	0.691	4.830	3.729	72.900
81	4.050	13.287	14.070	14.073	0.499	0.510	3.546	72.500
82	4.100	13.451	9.970	9.964	0.451	-0.990	4.526	77.900
83	4.150	13.615	12.760	12.759	0.332	-0.180	2.602	79.700
84	4.200	13.779	12.810	12.827	0.433	2.730	3.376	75.600
85	4.250	13.943	27.890	27.911	0.699	3.290	2.504	73.600
86	4.300	14.107	37.250	37.262	0.654	1.880	1.755	92.200
87	4.350	14.271	29.360	29.334	0.849	-4.120	2.894	95.800
88	4.400	14.436	20.010	19.976	0.714	-5.410	3.574	75.100
89	4.450	14.600	11.950	11.944	0.580	-1.030	4.856	90.700
90	4.500	14.764	10.480	10.479	0.457	-0.090	4.361	107.600
91	4.550	14.928	11.740	11.741	0.484	0.150	4.122	106.500
92	4.600	15.092	12.010	12.010	0.588	-0.020	4.896	124.000
93	4.650	15.256	13.010	13.002	0.722	-1.270	5.553	124.500
94	4.700	15.420	12.600	12.573	0.751	-4.280	5.973	126.900
95	4.750	15.584	11.330	11.288	0.673	-6.710	5.962	119.000
96	4.800	15.748	9.090	9.040	0.566	-8.070	6.261	114.700
97	4.850	15.912	8.690	8.633	0.420	-9.140	4.865	96.100
98	4.900	16.076	5.740	5.679	0.255	-9.790	4.490	73.700
99	4.950	16.240	3.940	3.937	0.214	-0.460	5.435	72.700
100	5.000	16.404	7.680	7.682	0.139	0.290	1.809	49.100
101	5.050	16.568	12.820	12.823	0.200	0.550	1.560	43.400
102	5.100	16.732	12.840	12.846	0.161	1.030	1.253	36.900
103	5.150	16.896	12.700	12.704	0.132	0.650	1.039	35.400
104	5.200	17.060	8.270	8.274	0.216	0.710	2.610	30.300
105	5.250	17.224	8.830	8.834	0.150	0.580	1.698	47.500
106	5.300	17.388	1.690	1.701	0.275	1.840	16.162	45.700
107	5.350	17.552	15.330	15.343	0.254	2.050	1.655	48.800
108	5.400	17.716	11.630	11.641	0.265	1.840	2.276	53.800
109	5.450	17.880	21.150	21.161	0.145	1.770	0.685	58.100
110	5.500	18.044	5.780	5.795	0.173	2.470	2.985	55.600
111	5.550	18.208	12.760	12.774	0.349	2.220	2.732	56.100
112	5.600	18.372	21.110	21.118	0.248	1.240	1.174	51.100
113	5.650	18.537	8.410	8.428	0.354	2.860	4.200	65.100
114	5.700	18.701	15.480	15.510	0.286	4.760	1.844	54.300
115	5.750	18.865	16.840	16.866	0.193	4.120	1.144	53.500
116	5.800	19.029	19.480	19.507	0.278	4.350	1.425	40.800
117	5.850	19.193	22.730	22.767	0.603	5.980	2.649	26.100
118	5.900	19.357	32.680	32.717	0.970	5.880	2.965	27.700
119	5.950	19.521	38.040	38.076	1.360	5.690	3.572	20.800
120	6.000	19.685	28.690	28.757	1.248	10.680	4.340	18.500
121	6.050	19.849	15.070	15.202	0.961	21.100	6.322	38.700
122	6.100	20.013	10.910	11.085	0.596	27.960	5.377	22.400
123	6.150	20.177	10.020	10.196	0.412	28.200	4.041	26.900
124	6.200	20.341	21.300	21.479	0.749	28.650	3.487	32.300
125	6.250	20.505	30.420	30.566	0.896	23.430	2.931	46.200
126	6.300	20.669	18.380	18.487	0.940	17.180	5.085	47.400
127	6.350	20.833	27.560	27.681	0.790	19.310	2.854	60.300
128	6.400	20.997	17.980	18.083	0.752	16.510	4.159	71.300
129	6.450	21.161	45.090	45.208	0.890	18.910	1.969	81.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	57.730	57.793	1.155	10.140	1.999	69.100
131	6.550	21.489	38.300	38.325	1.469	3.960	3.833	73.200
132	6.600	21.653	28.420	28.429	1.426	1.410	5.016	63.200
133	6.650	21.817	25.320	25.319	1.249	-0.180	4.933	69.900
134	6.700	21.981	27.910	27.913	1.465	0.450	5.248	74.100
135	6.750	22.145	76.340	76.346	2.044	1.010	2.677	87.600
136	6.800	22.309	106.560	106.566	2.961	0.920	2.779	80.800
137	6.850	22.473	128.430	128.434	3.585	0.600	2.791	83.400
138	6.900	22.638	109.380	109.380	5.364	-0.020	4.904	77.900
139	6.950	22.802	103.710	103.693	5.297	-2.780	5.108	88.300
140	7.000	22.966	83.890	83.865	4.161	-4.040	4.962	84.200
141	7.050	23.130	73.470	73.440	2.870	-4.730	3.908	82.000
142	7.100	23.294	60.360	60.329	2.620	-4.930	4.343	88.700
143	7.150	23.458	48.440	48.409	2.295	-4.910	4.741	83.400
144	7.200	23.622	39.730	39.698	2.091	-5.110	5.267	86.400
145	7.250	23.786	38.310	38.275	1.880	-5.560	4.912	94.800
146	7.300	23.950	38.310	38.267	1.423	-6.810	3.719	87.200
147	7.350	24.114	32.510	32.467	1.077	-6.890	3.317	87.400
148	7.400	24.278	33.730	33.687	0.898	-6.820	2.666	94.600
149	7.450	24.442	22.690	22.659	0.858	-4.970	3.787	84.400
150	7.500	24.606	24.390	24.361	0.644	-4.630	2.644	71.300
151	7.550	24.770	38.400	38.373	0.579	-4.380	1.509	71.500
152	7.600	24.934	55.910	55.885	0.853	-3.990	1.526	56.800
153	7.650	25.098	42.620	42.607	1.131	-2.150	2.655	47.000
154	7.700	25.262	47.010	47.002	1.683	-1.340	3.581	40.100
155	7.750	25.426	108.690	108.682	2.112	-1.250	1.943	27.900
156	7.800	25.590	66.440	66.432	2.040	-1.250	3.071	16.800
157	7.850	25.754	126.940	126.930	2.239	-1.530	1.764	16.700
158	7.900	25.918	65.150	65.146	1.878	-0.650	2.883	18.500
159	7.950	26.082	28.960	28.959	1.533	-0.120	5.294	14.300
160	8.000	26.246	29.430	29.425	0.875	-0.860	2.974	21.800
161	8.050	26.410	20.480	20.472	0.792	-1.270	3.869	21.400
162	8.100	26.574	17.400	17.392	0.730	-1.360	4.197	24.400
163	8.150	26.739	35.180	35.171	0.941	-1.500	2.676	28.500
164	8.200	26.903	28.200	28.191	0.848	-1.480	3.008	38.400
165	8.250	27.067	33.810	33.802	0.778	-1.360	2.302	47.200
166	8.300	27.231	54.660	54.652	0.588	-1.300	1.076	43.900
167	8.350	27.395	74.640	74.634	1.653	-0.920	2.215	36.200
168	8.400	27.559	69.390	69.383	2.274	-1.070	3.277	32.700
169	8.450	27.723	42.630	42.635	2.120	0.760	4.972	34.500
170	8.500	27.887	31.200	31.204	1.763	0.680	5.650	29.300
171	8.550	28.051	46.960	46.968	1.795	1.330	3.822	28.700
172	8.600	28.215	51.010	51.020	1.767	1.650	3.463	33.600
173	8.650	28.379	58.610	58.620	2.474	1.620	4.220	38.500
174	8.700	28.543	83.010	83.019	3.150	1.390	3.794	27.800
175	8.750	28.707	65.500	65.509	1.664	1.520	2.540	25.500
176	8.800	28.871	71.060	71.069	0.583	1.380	0.820	25.200
177	8.850	29.035	52.080	52.094	1.512	2.220	2.902	18.900
178	8.900	29.199	80.360	80.369	1.094	1.480	1.361	23.400
179	8.950	29.363	54.850	54.861	1.681	1.760	3.064	22.200
180	9.000	29.527	41.280	41.288	1.707	1.340	4.134	23.600
181	9.050	29.691	22.030	22.033	1.521	0.500	6.903	36.400
182	9.100	29.855	27.670	27.676	0.759	1.040	2.742	40.000
183	9.150	30.019	35.540	35.543	0.616	0.480	1.733	39.400
184	9.200	30.183	30.430	30.437	0.433	1.140	1.423	38.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	31.920	31.925	0.655	0.840	2.052	37.800
186	9.300	30.511	52.510	52.513	0.644	0.550	1.226	33.800
187	9.350	30.675	50.970	50.975	1.045	0.740	2.050	27.000
188	9.400	30.840	29.000	29.004	1.074	0.690	3.703	21.300
189	9.450	31.004	16.290	16.293	0.992	0.510	6.088	28.800
190	9.500	31.168	27.580	27.588	0.755	1.320	2.737	29.200
191	9.550	31.332	19.920	19.933	0.681	2.050	3.416	42.900
192	9.600	31.496	15.070	15.087	0.579	2.670	3.838	45.700
193	9.650	31.660	11.880	11.900	0.395	3.230	3.319	50.500
194	9.700	31.824	17.600	17.620	0.832	3.230	4.722	45.700
195	9.750	31.988	41.730	41.748	1.091	2.820	2.613	31.400
196	9.800	32.152	32.670	32.686	1.195	2.570	3.656	53.400
197	9.850	32.316	25.590	25.612	1.325	3.450	5.173	43.100
198	9.900	32.480	31.610	31.661	1.096	8.140	3.462	27.700
199	9.950	32.644	23.860	23.923	1.119	10.140	4.677	34.300
200	10.000	32.808	71.260	71.300	0.959	6.380	1.345	45.900
201	10.050	32.972	101.390	101.425	0.814	5.680	0.803	42.200
202	10.100	33.136	64.850	64.874	0.651	3.900	1.003	63.800
203	10.150	33.300	32.690	32.710	1.001	3.220	3.060	61.600
204	10.200	33.464	21.820	21.841	0.762	3.300	3.489	65.300
205	10.250	33.628	61.670	61.687	1.238	2.780	2.007	57.900
206	10.300	33.792	47.150	47.164	2.962	2.210	6.280	37.900
207	10.350	33.956	163.280	163.295	3.427	2.350	2.099	41.700
208	10.400	34.120	110.100	110.119	3.205	3.110	2.910	39.500
209	10.450	34.284	52.320	52.329	2.910	1.500	5.561	28.400
210	10.500	34.448	42.680	42.694	2.050	2.230	4.802	23.600
211	10.550	34.612	48.680	48.692	1.221	1.900	2.508	22.700
212	10.600	34.776	122.840	122.852	1.457	1.950	1.186	25.300
213	10.650	34.941	69.730	69.743	1.916	2.160	2.747	28.100
214	10.700	35.105	53.370	53.381	2.401	1.690	4.498	32.100
215	10.750	35.269	67.820	67.829	1.718	1.420	2.533	33.800
216	10.800	35.433	78.440	78.448	1.306	1.280	1.665	29.500
217	10.850	35.597	71.750	71.758	2.013	1.250	2.805	30.400
218	10.900	35.761	81.420	81.428	2.119	1.270	2.602	22.500
219	10.950	35.925	72.210	72.221	2.171	1.820	3.006	20.400
220	11.000	36.089	64.530	64.539	1.763	1.490	2.732	30.000
221	11.050	36.253	54.830	54.840	1.818	1.590	3.315	23.800
222	11.100	36.417	44.960	44.968	1.527	1.360	3.396	33.400
223	11.150	36.581	43.150	43.158	1.359	1.260	3.149	32.400
224	11.200	36.745	69.230	69.235	1.196	0.840	1.727	31.700
225	11.250	36.909	47.610	47.618	1.188	1.290	2.495	33.700
226	11.300	37.073	42.920	42.928	1.019	1.240	2.374	20.500
227	11.350	37.237	39.250	39.257	0.890	1.170	2.267	28.400
228	11.400	37.401	37.570	37.579	1.200	1.520	3.193	24.900
229	11.450	37.565	56.200	56.207	1.651	1.180	2.937	19.200
230	11.500	37.729	66.970	66.978	1.819	1.260	2.716	29.400
231	11.550	37.893	56.830	56.841	2.142	1.770	3.768	22.500
232	11.600	38.057	63.230	63.240	2.692	1.540	4.257	21.200
233	11.650	38.221	74.750	74.759	2.599	1.480	3.476	36.300
234	11.700	38.385	47.070	47.081	1.998	1.770	4.244	42.600
235	11.750	38.549	28.690	28.702	1.591	1.970	5.543	39.500
236	11.800	38.713	31.390	31.402	1.134	1.990	3.611	33.900
237	11.850	38.877	45.320	45.334	0.996	2.200	2.197	26.500
238	11.900	39.042	63.820	63.832	1.034	2.000	1.620	22.000
239	11.950	39.206	42.090	42.101	1.995	1.820	4.739	21.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	37.750	37.760	2.478	1.550	6.563	10.600
241	12.050	39.534	177.580	177.590	3.543	1.660	1.995	17.700
242	12.100	39.698	86.980	86.998	3.927	2.920	4.514	17.200
243	12.150	39.862	42.140	42.154	3.110	2.260	7.378	21.700
244	12.200	40.026	39.980	39.999	2.503	3.080	6.258	20.900
245	12.250	40.190	24.280	24.303	1.918	3.750	7.892	20.900
246	12.300	40.354	61.920	61.947	2.589	4.350	4.179	21.500
247	12.350	40.518	65.110	65.138	2.217	4.540	3.404	26.500
248	12.400	40.682	36.290	36.320	1.754	4.760	4.829	29.800
249	12.450	40.846	52.840	52.877	0.949	5.870	1.795	36.400
250	12.500	41.010	62.850	62.885	0.602	5.550	0.957	45.900
251	12.550	41.174	64.310	64.343	0.546	5.290	0.849	50.800
252	12.600	41.338	64.470	64.503	0.568	5.210	0.881	59.900
253	12.650	41.502	65.350	65.381	0.631	5.030	0.965	52.100
254	12.700	41.666	63.080	63.111	0.637	5.000	1.009	47.900
255	12.750	41.830	58.390	58.420	0.671	4.790	1.149	44.300
256	12.800	41.994	59.440	59.470	0.992	4.800	1.668	56.500
257	12.850	42.158	59.480	59.509	1.066	4.660	1.791	46.800
258	12.900	42.322	58.530	58.560	1.395	4.780	2.382	51.100
259	12.950	42.486	54.950	54.981	1.322	4.990	2.404	54.800
260	13.000	42.650	38.000	38.029	1.673	4.600	4.399	39.000
261	13.050	42.814	39.470	39.498	1.535	4.510	3.886	42.600
262	13.100	42.978	52.540	52.567	1.140	4.280	2.169	22.200
263	13.150	43.143	74.410	74.438	1.190	4.470	1.599	27.400
264	13.200	43.307	102.540	102.569	1.955	4.680	1.906	19.900
265	13.250	43.471	69.960	69.991	2.610	4.990	3.729	22.200
266	13.300	43.635	53.850	53.882	2.226	5.110	4.131	25.800
267	13.350	43.799	28.480	28.510	1.213	4.820	4.255	25.600
268	13.400	43.963	19.520	19.548	0.963	4.550	4.926	35.500
269	13.450	44.127	20.030	20.061	1.068	5.040	5.324	47.500
270	13.500	44.291	24.360	24.392	1.194	5.120	4.895	51.000
271	13.550	44.455	25.630	25.660	1.163	4.850	4.532	53.000
272	13.600	44.619	21.610	21.640	1.063	4.740	4.912	64.700
273	13.650	44.783	20.480	20.511	0.646	4.940	3.150	67.900
274	13.700	44.947	27.960	27.990	0.740	4.760	2.644	65.500
275	13.750	45.111	19.520	19.547	0.720	4.340	3.683	56.000
276	13.800	45.275	23.770	23.798	0.624	4.550	2.622	42.500
277	13.850	45.439	34.450	34.483	1.300	5.310	3.770	48.400
278	13.900	45.603	41.650	41.685	1.514	5.650	3.632	38.200
279	13.950	45.767	22.900	22.934	1.432	5.420	6.244	32.800
280	14.000	45.931	19.420	19.456	0.906	5.790	4.657	31.700
281	14.050	46.095	25.710	25.748	1.075	6.010	4.175	25.200
282	14.100	46.259	55.140	55.180	1.417	6.370	2.568	30.400
283	14.150	46.423	41.230	41.269	1.607	6.210	3.894	29.400
284	14.200	46.587	42.920	42.958	1.754	6.080	4.083	39.000
285	14.250	46.751	34.310	34.351	1.265	6.560	3.683	31.900
286	14.300	46.915	42.190	42.227	1.449	5.860	3.431	43.700
287	14.350	47.079	53.530	53.565	1.183	5.590	2.209	35.800
288	14.400	47.244	26.910	26.948	1.191	6.140	4.420	30.500
289	14.450	47.408	27.920	27.960	1.021	6.420	3.652	31.100
290	14.500	47.572	27.040	27.082	1.769	6.660	6.532	37.600
291	14.550	47.736	59.460	59.504	1.826	6.990	3.069	30.200
292	14.600	47.900	123.070	123.116	3.181	7.430	2.584	22.700
293	14.650	48.064	147.600	147.643	4.525	6.840	3.065	29.500
294	14.700	48.228	77.310	77.359	4.291	7.860	5.547	34.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	41.190	41.242	2.948	8.360	7.148	32.500
296	14.800	48.556	30.040	30.095	1.524	8.850	5.064	28.300
297	14.850	48.720	25.560	25.617	1.484	9.100	5.793	22.900
298	14.900	48.884	44.650	44.707	1.397	9.180	3.125	22.400
299	14.950	49.048	41.100	41.155	1.426	8.810	3.465	17.000
300	15.000	49.212	53.120	53.174	1.647	8.600	3.097	19.400
301	15.050	49.376	60.950	61.002	1.915	8.310	3.139	21.100
302	15.100	49.540	67.470	67.521	2.605	8.240	3.858	19.200
303	15.150	49.704	54.770	54.821	2.684	8.200	4.896	0.000
304	15.200	49.868	50.770	50.826	2.591	9.030	5.098	0.000
305	15.250	50.032	54.450	54.508	2.522	9.280	4.627	0.000
306	15.300	50.196	51.150	51.205	2.373	8.890	4.634	0.000
307	15.350	50.360	58.810	58.866	1.829	8.950	3.107	0.000
308	15.400	50.524	120.020	120.076	1.527	8.980	1.272	0.000
309	15.450	50.688	154.990	155.044	1.606	8.610	1.036	0.000
310	15.500	50.852	183.900	183.954	1.957	8.680	1.064	0.000
311	15.550	51.016	203.330	203.384	2.464	8.730	1.211	0.000
312	15.600	51.180	213.770	213.825	2.962	8.870	1.385	0.000
313	15.650	51.345	223.380	223.435	3.355	8.880	1.502	0.000
314	15.700	51.509	231.440	231.497	3.648	9.070	1.576	0.000
315	15.750	51.673	243.370	243.428	3.890	9.260	1.598	0.000
316	15.800	51.837	258.520	258.578	4.145	9.370	1.603	0.000
317	15.850	52.001	281.130	281.190	0.000	9.540	0.000	0.000
318	15.900	52.165	298.580	298.641	0.000	9.830	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221587
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-11-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-20-2013
CPT Time:	14:07
CPT File:	13-53075_GP11-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722226.346
Northing / Lat:	4294337.804
Elevation:	145.159
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	13.920	13.926	0.006	0.910	0.043	31.400
2	0.100	0.328	37.020	37.024	0.015	0.700	0.041	37.900
3	0.150	0.492	42.550	42.552	0.016	0.390	0.038	37.000
4	0.200	0.656	48.640	48.644	0.014	0.600	0.029	42.600
5	0.250	0.820	64.700	64.705	0.266	0.740	0.411	54.800
6	0.300	0.984	36.820	36.833	0.501	2.040	1.360	67.500
7	0.350	1.148	24.070	24.079	0.575	1.490	2.388	73.900
8	0.400	1.312	26.610	26.619	0.529	1.430	1.987	85.200
9	0.450	1.476	31.350	31.347	0.594	-0.420	1.895	84.600
10	0.500	1.640	34.740	34.726	0.799	-2.300	2.301	89.600
11	0.550	1.804	51.450	51.440	1.179	-1.610	2.292	78.500
12	0.600	1.968	96.720	96.721	1.709	0.110	1.767	99.300
13	0.650	2.133	112.080	112.079	2.093	-0.130	1.867	88.800
14	0.700	2.297	113.620	113.618	2.459	-0.290	2.164	92.500
15	0.750	2.461	123.670	123.668	2.658	-0.310	2.149	94.700
16	0.800	2.625	118.440	118.438	3.306	-0.280	2.791	96.200
17	0.850	2.789	114.750	114.747	3.607	-0.530	3.143	82.400
18	0.900	2.953	97.220	97.217	3.461	-0.470	3.560	91.900
19	0.950	3.117	95.200	95.195	3.659	-0.850	3.844	111.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	81.330	81.325	3.276	-0.780	4.028	99.400
21	1.050	3.445	66.520	66.514	2.931	-1.040	4.407	100.800
22	1.100	3.609	52.520	52.512	2.362	-1.310	4.498	102.500
23	1.150	3.773	38.550	38.542	2.136	-1.340	5.542	92.000
24	1.200	3.937	38.540	38.532	1.998	-1.350	5.185	104.400
25	1.250	4.101	57.280	57.278	1.929	-0.360	3.368	91.100
26	1.300	4.265	52.010	52.008	1.336	-0.320	2.569	91.000
27	1.350	4.429	77.270	77.267	1.295	-0.540	1.676	90.100
28	1.400	4.593	56.320	56.316	1.423	-0.650	2.527	93.900
29	1.450	4.757	43.160	43.156	1.594	-0.680	3.694	91.500
30	1.500	4.921	33.820	33.819	1.601	-0.170	4.734	100.600
31	1.550	5.085	36.670	36.670	1.754	-0.040	4.783	83.000
32	1.600	5.249	41.560	41.534	1.958	-4.190	4.714	80.900
33	1.650	5.413	46.840	46.825	1.395	-2.430	2.979	82.800
34	1.700	5.577	57.200	57.194	0.676	-0.890	1.182	93.200
35	1.750	5.741	60.670	60.674	0.746	0.600	1.230	96.300
36	1.800	5.905	61.290	61.293	1.545	0.480	2.521	96.500
37	1.850	6.069	36.690	36.693	1.748	0.420	4.764	114.300
38	1.900	6.234	22.870	22.871	1.464	0.200	6.401	100.700
39	1.950	6.398	17.110	17.099	1.133	-1.700	6.626	103.700
40	2.000	6.562	14.910	14.882	0.796	-4.410	5.349	102.800
41	2.050	6.726	13.360	13.349	0.572	-1.760	4.285	90.800
42	2.100	6.890	12.530	12.525	0.629	-0.800	5.022	83.500
43	2.150	7.054	12.990	12.985	1.202	-0.820	9.257	92.400
44	2.200	7.218	29.940	29.936	1.238	-0.570	4.135	84.400
45	2.250	7.382	18.350	18.346	1.202	-0.570	6.552	90.200
46	2.300	7.546	21.540	21.538	0.796	-0.360	3.696	103.600
47	2.350	7.710	22.850	22.851	0.842	0.140	3.685	84.400
48	2.400	7.874	21.100	21.099	0.890	-0.210	4.218	97.000
49	2.450	8.038	30.950	30.946	1.034	-0.590	3.341	98.500
50	2.500	8.202	37.850	37.846	1.000	-0.680	2.642	87.700
51	2.550	8.366	39.570	39.563	1.382	-1.110	3.493	100.000
52	2.600	8.530	57.850	57.828	1.676	-3.560	2.898	93.600
53	2.650	8.694	63.350	63.316	1.875	-5.490	2.961	72.500
54	2.700	8.858	65.570	65.527	1.821	-6.810	2.779	68.600
55	2.750	9.022	57.050	57.037	1.274	-2.040	2.234	55.500
56	2.800	9.186	68.520	68.518	1.426	-0.330	2.081	51.000
57	2.850	9.350	74.240	74.241	1.069	0.240	1.440	48.300
58	2.900	9.514	49.490	49.488	0.814	-0.270	1.645	43.200
59	2.950	9.678	31.250	31.247	0.167	-0.530	0.534	46.200
60	3.000	9.842	19.340	19.337	0.086	-0.530	0.445	46.500
61	3.050	10.006	28.540	28.537	0.067	-0.420	0.235	46.600
62	3.100	10.170	15.500	15.497	0.031	-0.440	0.200	46.300
63	3.150	10.335	31.890	31.890	0.008	0.010	0.025	57.400
64	3.200	10.499	35.620	35.623	0.026	0.450	0.073	64.800
65	3.250	10.663	30.880	30.885	0.023	0.780	0.074	63.300
66	3.300	10.827	36.910	36.912	0.111	0.390	0.301	51.600
67	3.350	10.991	37.290	37.292	0.080	0.310	0.215	43.000
68	3.400	11.155	41.450	41.454	0.254	0.720	0.613	55.400
69	3.450	11.319	36.520	36.523	0.013	0.480	0.036	71.300
70	3.500	11.483	14.140	14.144	0.106	0.720	0.749	71.500
71	3.550	11.647	13.030	13.033	0.040	0.480	0.307	66.900
72	3.600	11.811	5.720	5.716	0.077	-0.580	1.347	46.000
73	3.650	11.975	2.010	2.006	0.016	-0.640	0.798	51.500
74	3.700	12.139	2.250	2.248	0.018	-0.350	0.801	35.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	51.250	51.258	1.029	1.250	2.007	35.700
76	3.800	12.467	33.050	33.051	1.409	0.130	4.263	24.800
77	3.850	12.631	27.560	27.563	1.457	0.520	5.286	45.100
78	3.900	12.795	15.600	15.611	0.576	1.750	3.690	48.600
79	3.950	12.959	14.620	14.680	0.596	9.680	4.060	55.100
80	4.000	13.123	19.750	19.788	0.679	6.160	3.431	63.500
81	4.050	13.287	66.720	66.724	1.097	0.660	1.644	70.500
82	4.100	13.451	84.530	84.514	1.286	-2.540	1.522	51.200
83	4.150	13.615	64.040	64.014	1.052	-4.160	1.643	56.100
84	4.200	13.779	67.240	67.204	1.171	-5.790	1.742	37.400
85	4.250	13.943	120.160	120.156	0.946	-0.660	0.787	37.500
86	4.300	14.107	86.210	86.213	1.945	0.430	2.256	35.000
87	4.350	14.271	69.200	69.201	1.549	0.210	2.238	25.500
88	4.400	14.436	23.980	23.988	1.368	1.240	5.703	26.100
89	4.450	14.600	76.840	76.858	1.307	2.860	1.701	22.200
90	4.500	14.764	33.440	33.454	1.111	2.230	3.321	39.100
91	4.550	14.928	23.570	23.589	0.872	3.020	3.697	41.300
92	4.600	15.092	28.040	28.045	0.848	0.730	3.024	30.700
93	4.650	15.256	25.840	25.819	0.636	-3.310	2.463	31.700
94	4.700	15.420	40.680	40.655	0.938	-4.060	2.307	30.000
95	4.750	15.584	28.890	28.881	0.880	-1.390	3.047	22.100
96	4.800	15.748	19.860	19.857	0.700	-0.410	3.525	33.000
97	4.850	15.912	38.460	38.454	0.799	-0.920	2.078	39.900
98	4.900	16.076	22.160	22.158	0.742	-0.250	3.349	50.500
99	4.950	16.240	9.270	9.267	0.835	-0.530	9.011	47.800
100	5.000	16.404	14.200	14.199	0.984	-0.090	6.930	48.200
101	5.050	16.568	21.720	21.725	1.784	0.820	8.212	50.000
102	5.100	16.732	125.720	125.719	1.104	-0.140	0.878	43.300
103	5.150	16.896	190.520	190.517	1.502	-0.420	0.788	37.000
104	5.200	17.060	129.720	129.717	1.266	-0.550	0.976	39.400
105	5.250	17.224	89.180	89.179	1.637	-0.200	1.836	34.700
106	5.300	17.388	68.980	68.979	1.375	-0.210	1.993	45.300
107	5.350	17.552	74.260	74.262	0.945	0.400	1.273	59.600
108	5.400	17.716	61.880	61.885	0.803	0.880	1.298	59.600
109	5.450	17.880	46.230	46.233	0.964	0.520	2.085	54.600
110	5.500	18.044	38.990	38.986	0.821	-0.610	2.106	58.800
111	5.550	18.208	27.080	27.076	0.903	-0.630	3.335	59.700
112	5.600	18.372	36.350	36.414	0.798	10.290	2.191	69.300
113	5.650	18.537	34.880	34.927	0.698	7.540	1.998	75.500
114	5.700	18.701	44.050	44.087	0.682	5.990	1.547	81.400
115	5.750	18.865	44.380	44.415	0.798	5.630	1.797	65.600
116	5.800	19.029	36.790	36.820	1.085	4.840	2.947	70.600
117	5.850	19.193	30.150	30.169	1.149	3.010	3.809	60.800
118	5.900	19.357	41.340	41.327	0.897	-2.030	2.170	54.500
119	5.950	19.521	13.870	13.858	1.206	-1.930	8.703	33.000
120	6.000	19.685	14.980	14.979	1.404	-0.240	9.373	23.000
121	6.050	19.849	267.660	267.666	6.737	0.920	2.517	20.100
122	6.100	20.013	66.020	66.021	6.343	0.220	9.607	14.400
123	6.150	20.177	31.530	31.539	5.108	1.450	16.196	20.600
124	6.200	20.341	51.220	51.231	3.044	1.750	5.942	18.500
125	6.250	20.505	69.490	69.531	3.055	6.520	4.394	13.300
126	6.300	20.669	110.640	110.671	2.299	4.900	2.077	11.100
127	6.350	20.833	84.510	84.529	1.846	3.060	2.184	12.300
128	6.400	20.997	27.830	27.841	1.048	1.730	3.764	13.900
129	6.450	21.161	16.130	16.139	0.017	1.460	0.105	12.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	1.390	1.399	0.016	1.470	1.144	16.200
131	6.550	21.489	1.130	1.142	0.319	1.990	27.923	16.600
132	6.600	21.653	21.110	21.127	1.992	2.680	9.429	31.500
133	6.650	21.817	116.230	116.250	2.241	3.180	1.928	34.400
134	6.700	21.981	18.600	18.631	2.069	4.950	11.105	40.300
135	6.750	22.145	29.390	29.384	1.124	-1.030	3.825	36.700
136	6.800	22.309	29.480	29.448	1.075	-5.200	3.651	31.400
137	6.850	22.473	17.140	17.102	0.930	-6.070	5.438	25.900
138	6.900	22.638	33.160	33.143	0.999	-2.660	3.014	18.800
139	6.950	22.802	16.410	16.409	0.597	-0.170	3.638	21.000
140	7.000	22.966	17.230	17.233	0.500	0.500	2.901	14.900
141	7.050	23.130	12.430	12.435	0.347	0.740	2.791	10.700
142	7.100	23.294	6.180	6.185	0.335	0.830	5.416	16.200
143	7.150	23.458	9.050	9.055	0.363	0.840	4.009	15.200
144	7.200	23.622	9.600	9.604	0.688	0.580	7.164	13.600
145	7.250	23.786	25.930	25.932	0.684	0.290	2.638	14.400
146	7.300	23.950	16.540	16.546	0.749	0.890	4.527	10.300
147	7.350	24.114	7.550	7.563	0.558	2.090	7.378	7.900
148	7.400	24.278	22.070	22.089	0.801	2.990	3.626	8.700
149	7.450	24.442	20.140	20.154	0.785	2.300	3.895	9.400
150	7.500	24.606	19.040	19.048	0.825	1.270	4.331	9.300
151	7.550	24.770	28.060	28.065	0.855	0.830	3.046	9.200
152	7.600	24.934	41.740	41.745	1.126	0.750	2.697	8.900
153	7.650	25.098	56.650	56.653	0.676	0.410	1.193	9.200
154	7.700	25.262	103.240	103.244	0.876	0.690	0.848	9.200
155	7.750	25.426	190.230	190.235	1.021	0.860	0.537	13.300
156	7.800	25.590	78.210	78.212	0.960	0.260	1.227	15.200
157	7.850	25.754	38.890	38.891	1.166	0.110	2.998	18.300
158	7.900	25.918	76.400	76.405	1.081	0.880	1.415	20.400
159	7.950	26.082	92.080	92.087	1.515	1.160	1.645	21.200
160	8.000	26.246	79.980	79.990	1.708	1.610	2.135	24.200
161	8.050	26.410	41.520	41.530	1.540	1.560	3.708	23.700
162	8.100	26.574	15.270	15.281	1.245	1.730	8.147	26.300
163	8.150	26.739	16.070	16.087	1.263	2.680	7.851	26.700
164	8.200	26.903	56.380	56.400	0.853	3.260	1.512	32.700
165	8.250	27.067	36.240	36.256	0.778	2.490	2.146	34.600
166	8.300	27.231	31.370	31.389	0.494	3.050	1.574	37.900
167	8.350	27.395	24.940	24.955	0.175	2.430	0.701	56.500
168	8.400	27.559	15.940	15.965	0.305	4.000	1.910	51.700
169	8.450	27.723	20.850	20.880	0.290	4.800	1.389	63.600
170	8.500	27.887	34.250	34.287	0.412	5.940	1.202	72.200
171	8.550	28.051	31.900	31.901	0.592	0.160	1.856	75.000
172	8.600	28.215	28.910	28.898	1.391	-1.940	4.814	77.500
173	8.650	28.379	32.330	32.310	1.915	-3.190	5.927	81.900
174	8.700	28.543	83.060	83.019	1.873	-6.490	2.256	71.300
175	8.750	28.707	49.100	49.089	2.411	-1.700	4.911	76.000
176	8.800	28.871	40.110	40.109	2.103	-0.170	5.243	57.100
177	8.850	29.035	27.550	27.550	1.013	-0.010	3.677	50.300
178	8.900	29.199	23.610	23.612	1.141	0.400	4.832	50.600
179	8.950	29.363	66.750	66.758	1.379	1.290	2.066	54.500
180	9.000	29.527	25.640	25.648	1.399	1.350	5.455	70.100
181	9.050	29.691	23.800	23.812	1.136	1.860	4.771	74.800
182	9.100	29.855	20.280	20.295	0.749	2.410	3.691	80.300
183	9.150	30.019	26.650	26.665	0.520	2.400	1.950	91.200
184	9.200	30.183	30.800	30.816	0.640	2.490	2.077	86.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	44.520	44.539	0.855	3.070	1.920	83.600
186	9.300	30.511	43.620	43.635	0.995	2.380	2.280	85.200
187	9.350	30.675	34.360	34.373	0.885	2.140	2.575	84.000
188	9.400	30.840	28.890	28.902	0.726	1.900	2.512	91.500
189	9.450	31.004	24.140	24.150	0.673	1.640	2.787	84.700
190	9.500	31.168	28.960	28.965	1.323	0.790	4.568	92.100
191	9.550	31.332	73.060	73.035	1.440	-3.950	1.972	76.900
192	9.600	31.496	38.200	38.163	1.617	-5.930	4.237	89.400
193	9.650	31.660	43.860	43.822	1.278	-6.020	2.916	96.400
194	9.700	31.824	45.480	45.443	1.066	-6.000	2.346	101.900
195	9.750	31.988	36.990	36.952	1.000	-6.140	2.706	91.200
196	9.800	32.152	24.830	24.791	0.790	-6.250	3.187	93.700
197	9.850	32.316	20.660	20.622	0.624	-6.130	3.026	92.900
198	9.900	32.480	24.310	24.273	0.517	-5.900	2.130	76.100
199	9.950	32.644	29.510	29.475	0.635	-5.640	2.154	79.900
200	10.000	32.808	31.310	31.276	0.763	-5.420	2.440	75.400
201	10.050	32.972	30.230	30.204	0.904	-4.100	2.993	73.600
202	10.100	33.136	31.830	31.818	0.708	-1.940	2.225	60.500
203	10.150	33.300	49.340	49.331	0.847	-1.480	1.717	64.200
204	10.200	33.464	56.200	56.189	0.942	-1.820	1.676	60.700
205	10.250	33.628	52.210	52.201	1.200	-1.430	2.299	71.000
206	10.300	33.792	48.910	48.907	1.377	-0.470	2.816	61.100
207	10.350	33.956	47.950	47.951	1.422	0.140	2.966	54.500
208	10.400	34.120	57.210	57.226	1.386	2.620	2.422	57.300
209	10.450	34.284	48.430	48.454	2.130	3.790	4.396	48.600
210	10.500	34.448	53.530	53.550	1.049	3.240	1.959	49.300
211	10.550	34.612	87.160	87.173	1.038	2.050	1.191	49.100
212	10.600	34.776	57.660	57.650	0.742	-1.620	1.287	58.200
213	10.650	34.941	25.710	25.700	0.506	-1.650	1.969	63.900
214	10.700	35.105	23.060	23.058	0.503	-0.370	2.181	62.400
215	10.750	35.269	20.790	20.789	0.463	-0.100	2.227	66.300
216	10.800	35.433	17.470	17.470	0.542	0.000	3.102	67.000
217	10.850	35.597	9.720	9.720	0.558	-0.070	5.741	73.400
218	10.900	35.761	15.560	15.561	0.657	0.190	4.222	58.500
219	10.950	35.925	44.510	44.560	0.994	8.070	2.231	56.900
220	11.000	36.089	96.070	96.106	1.454	5.690	1.513	49.200
221	11.050	36.253	43.660	43.687	1.663	4.340	3.807	52.100
222	11.100	36.417	28.490	28.516	1.260	4.100	4.419	48.100
223	11.150	36.581	17.090	17.114	0.565	3.780	3.301	41.200
224	11.200	36.745	4.300	4.317	0.457	2.780	10.585	46.000
225	11.250	36.909	21.950	21.972	0.490	3.550	2.230	40.600
226	11.300	37.073	30.750	30.775	0.816	3.970	2.652	27.900
227	11.350	37.237	34.350	34.372	1.168	3.560	3.398	29.500
228	11.400	37.401	46.770	46.789	1.841	3.000	3.935	24.500
229	11.450	37.565	54.580	54.600	2.729	3.210	4.998	25.400
230	11.500	37.729	129.590	129.609	2.904	3.030	2.241	20.000
231	11.550	37.893	157.240	157.257	3.786	2.730	2.408	23.500
232	11.600	38.057	166.630	166.643	3.051	2.060	1.831	27.000
233	11.650	38.221	117.050	117.063	3.410	2.080	2.913	22.400
234	11.700	38.385	82.250	82.266	2.656	2.570	3.229	37.800
235	11.750	38.549	42.340	42.373	1.792	5.240	4.229	49.100
236	11.800	38.713	26.030	26.066	1.113	5.690	4.270	48.200
237	11.850	38.877	18.570	18.607	0.447	5.930	2.402	44.900
238	11.900	39.042	38.000	38.038	0.407	6.050	1.070	45.700
239	11.950	39.206	31.020	31.055	0.565	5.540	1.819	37.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	33.370	33.403	0.802	5.320	2.401	28.300
241	12.050	39.534	56.960	56.992	0.902	5.130	1.583	23.400
242	12.100	39.698	68.050	68.082	1.266	5.110	1.860	16.600
243	12.150	39.862	44.920	44.953	1.703	5.270	3.788	23.200
244	12.200	40.026	40.560	40.592	2.052	5.170	5.055	19.600
245	12.250	40.190	35.120	35.151	1.644	5.030	4.677	24.900
246	12.300	40.354	52.120	52.155	1.900	5.630	3.643	19.900
247	12.350	40.518	55.900	55.935	1.688	5.560	3.018	22.500
248	12.400	40.682	23.690	23.720	1.831	4.770	7.719	18.300
249	12.450	40.846	20.160	20.186	1.131	4.130	5.603	17.500
250	12.500	41.010	27.590	27.608	0.795	2.940	2.880	14.200
251	12.550	41.174	59.470	59.494	1.343	3.880	2.257	12.000
252	12.600	41.338	62.300	62.329	1.958	4.590	3.141	9.300
253	12.650	41.502	41.240	41.261	2.122	3.440	5.143	13.500
254	12.700	41.666	42.560	42.585	1.792	4.000	4.208	13.500
255	12.750	41.830	79.620	79.642	1.920	3.600	2.411	11.000
256	12.800	41.994	91.790	91.812	1.769	3.530	1.927	18.800
257	12.850	42.158	87.280	87.303	1.841	3.650	2.109	19.400
258	12.900	42.322	54.680	54.701	1.574	3.370	2.877	21.000
259	12.950	42.486	21.300	21.321	1.102	3.360	5.169	24.400
260	13.000	42.650	13.180	13.199	0.709	3.010	5.372	12.400
261	13.050	42.814	10.250	10.268	0.652	2.900	6.350	17.000
262	13.100	42.978	6.820	6.835	0.316	2.440	4.623	16.500
263	13.150	43.143	18.870	18.884	0.431	2.210	2.282	16.200
264	13.200	43.307	27.550	27.565	0.741	2.380	2.688	12.000
265	13.250	43.471	22.950	22.966	0.735	2.550	3.200	13.600
266	13.300	43.635	41.390	41.406	1.014	2.530	2.449	16.400
267	13.350	43.799	44.960	44.977	1.154	2.770	2.566	19.300
268	13.400	43.963	34.650	34.669	1.343	3.110	3.874	28.100
269	13.450	44.127	24.540	24.559	0.912	3.120	3.713	28.600
270	13.500	44.291	9.210	9.228	0.661	2.950	7.163	33.200
271	13.550	44.455	28.090	28.108	0.832	2.920	2.960	27.900
272	13.600	44.619	69.870	69.889	1.249	3.060	1.787	29.100
273	13.650	44.783	51.060	51.079	1.559	3.060	3.052	35.700
274	13.700	44.947	24.140	24.160	1.449	3.280	5.997	35.900
275	13.750	45.111	15.780	15.801	1.410	3.410	8.923	37.400
276	13.800	45.275	17.430	17.452	0.622	3.580	3.564	35.100
277	13.850	45.439	27.380	27.403	0.651	3.710	2.376	24.800
278	13.900	45.603	80.490	80.516	1.293	4.100	1.606	26.700
279	13.950	45.767	81.340	81.370	1.904	4.770	2.340	29.600
280	14.000	45.931	33.040	33.073	1.948	5.260	5.890	28.000
281	14.050	46.095	26.860	26.888	1.239	4.530	4.608	27.500
282	14.100	46.259	21.800	21.828	0.459	4.410	2.103	28.600
283	14.150	46.423	27.100	27.126	0.347	4.110	1.279	18.000
284	14.200	46.587	39.050	39.074	0.654	3.890	1.674	18.200
285	14.250	46.751	31.920	31.944	0.482	3.840	1.509	28.700
286	14.300	46.915	11.570	11.595	0.529	3.930	4.562	20.400
287	14.350	47.079	7.190	7.209	0.365	3.080	5.063	29.800
288	14.400	47.244	19.590	19.610	0.738	3.200	3.763	34.100
289	14.450	47.408	26.960	26.985	0.914	3.960	3.387	45.800
290	14.500	47.572	22.880	22.904	0.976	3.880	4.261	43.000
291	14.550	47.736	21.550	21.577	0.954	4.320	4.421	42.600
292	14.600	47.900	13.570	13.611	0.813	6.580	5.973	39.600
293	14.650	48.064	17.740	17.781	0.852	6.490	4.792	40.300
294	14.700	48.228	25.440	25.480	1.012	6.360	3.972	51.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	34.990	35.030	1.058	6.440	3.020	75.600
296	14.800	48.556	29.340	29.380	0.791	6.450	2.692	83.700
297	14.850	48.720	51.050	51.087	0.584	5.980	1.143	91.800
298	14.900	48.884	51.460	51.498	0.590	6.040	1.146	92.400
299	14.950	49.048	42.550	42.587	0.700	5.950	1.644	95.700
300	15.000	49.212	34.790	34.827	0.580	5.970	1.665	90.500
301	15.050	49.376	29.130	29.167	0.406	5.880	1.392	93.400
302	15.100	49.540	27.850	27.886	0.363	5.780	1.302	86.600
303	15.150	49.704	35.080	35.117	0.309	5.930	0.880	79.000
304	15.200	49.868	33.890	33.925	0.380	5.610	1.120	80.400
305	15.250	50.032	22.200	22.233	0.635	5.300	2.856	78.200
306	15.300	50.196	16.860	16.892	0.583	5.100	3.451	76.000
307	15.350	50.360	27.430	27.462	0.571	5.150	2.079	70.200
308	15.400	50.524	64.730	64.763	0.693	5.330	1.070	67.000
309	15.450	50.688	97.530	97.562	0.877	5.070	0.899	64.800
310	15.500	50.852	158.750	158.782	1.175	5.190	0.740	42.300
311	15.550	51.016	212.870	212.903	1.916	5.240	0.900	0.000
312	15.600	51.180	248.560	248.595	2.893	5.560	1.164	0.000
313	15.650	51.345	259.620	259.656	3.674	5.690	1.415	0.000
314	15.700	51.509	242.330	242.367	4.139	5.950	1.708	0.000
315	15.750	51.673	216.850	216.888	4.063	6.030	1.873	0.000
316	15.800	51.837	188.270	188.308	3.625	6.040	1.925	0.000
317	15.850	52.001	175.620	175.658	3.077	6.060	1.752	0.000
318	15.900	52.165	175.960	175.998	2.837	6.080	1.612	0.000
319	15.950	52.329	186.200	186.239	2.747	6.210	1.475	0.000
320	16.000	52.493	206.150	206.190	2.931	6.400	1.422	0.000
321	16.050	52.657	244.340	244.380	3.444	6.440	1.409	0.000
322	16.100	52.821	264.050	264.092	3.962	6.680	1.500	0.000
323	16.150	52.985	295.370	295.413	4.281	6.950	1.449	0.000
324	16.200	53.149	303.920	303.964	5.007	7.120	1.647	0.000
325	16.250	53.313	320.810	320.857	0.000	7.450	0.000	0.000
326	16.300	53.477	280.490	280.537	0.000	7.510	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397223662
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-11-4
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-18-2013
CPT Time:	12:36
CPT File:	13-53075_GP11-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722231.282
Northing / Lat:	4294318.187
Elevation:	147.006
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	96.840	96.844	0.042	0.640	0.043	33.400
2	0.100	0.328	234.780	234.783	0.269	0.480	0.115	41.400
3	0.150	0.492	203.680	203.693	0.755	2.120	0.371	45.700
4	0.200	0.656	148.730	148.747	0.850	2.800	0.571	50.800
5	0.250	0.820	93.970	94.001	0.000	4.900	0.000	56.100
6	0.300	0.984	67.670	67.701	0.000	4.980	0.000	64.000
7	0.350	1.148	52.300	52.302	1.135	0.320	2.170	62.600
8	0.400	1.312	33.470	33.479	1.160	1.520	3.465	71.900
9	0.450	1.476	31.210	31.214	0.953	0.670	3.053	75.700
10	0.500	1.640	31.780	31.783	0.874	0.410	2.750	79.900
11	0.550	1.804	39.370	39.370	0.776	0.040	1.971	74.800
12	0.600	1.968	54.410	54.416	0.734	0.980	1.349	75.900
13	0.650	2.133	94.570	94.573	0.803	0.430	0.849	68.200
14	0.700	2.297	100.000	100.006	0.954	0.970	0.954	62.900
15	0.750	2.461	113.650	113.651	0.988	0.210	0.869	54.300
16	0.800	2.625	134.760	134.761	1.005	0.110	0.746	47.500
17	0.850	2.789	154.970	154.970	1.159	0.080	0.748	56.500
18	0.900	2.953	178.230	178.230	1.453	0.080	0.815	51.000
19	0.950	3.117	199.210	199.211	1.253	0.130	0.629	44.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	201.850	201.855	1.193	0.730	0.591	47.200
21	1.050	3.445	214.580	214.585	1.004	0.780	0.468	48.300
22	1.100	3.609	208.060	208.077	1.408	2.730	0.677	38.400
23	1.150	3.773	181.790	181.807	1.344	2.710	0.739	37.500
24	1.200	3.937	171.380	171.389	1.059	1.410	0.618	48.200
25	1.250	4.101	143.160	143.170	1.302	1.550	0.909	50.000
26	1.300	4.265	135.160	135.164	1.123	0.680	0.831	39.900
27	1.350	4.429	119.800	119.809	1.039	1.520	0.867	45.900
28	1.400	4.593	94.860	94.869	1.204	1.510	1.269	53.000
29	1.450	4.757	99.480	99.489	0.595	1.450	0.598	55.100
30	1.500	4.921	104.910	104.921	1.388	1.700	1.323	59.000
31	1.550	5.085	106.310	106.317	1.635	1.120	1.538	62.700
32	1.600	5.249	65.650	65.668	1.565	2.910	2.383	75.600
33	1.650	5.413	65.080	65.080	1.574	-0.060	2.419	74.900
34	1.700	5.577	57.160	57.171	1.977	1.690	3.458	76.200
35	1.750	5.741	87.620	87.632	1.923	1.940	2.194	83.600
36	1.800	5.905	128.180	128.179	2.940	-0.220	2.294	81.400
37	1.850	6.069	77.130	77.141	3.223	1.720	4.178	91.500
38	1.900	6.234	92.090	92.117	3.947	4.310	4.285	76.800
39	1.950	6.398	88.720	88.769	3.659	7.910	4.122	79.600
40	2.000	6.562	132.190	132.274	3.892	13.400	2.942	74.700
41	2.050	6.726	274.350	274.462	6.423	17.930	2.340	66.300
42	2.100	6.890	297.330	297.404	5.603	11.820	1.884	65.800
43	2.150	7.054	256.190	256.260	4.703	11.200	1.835	64.800
44	2.200	7.218	238.700	238.740	4.295	6.440	1.799	64.700
45	2.250	7.382	211.290	211.317	5.887	4.390	2.786	87.300
46	2.300	7.546	76.690	76.713	4.387	3.620	5.719	84.400
47	2.350	7.710	50.210	50.284	2.950	11.850	5.867	92.000
48	2.400	7.874	44.470	44.540	1.773	11.210	3.981	87.700
49	2.450	8.038	42.690	42.746	1.430	9.050	3.345	89.100
50	2.500	8.202	29.870	29.882	1.264	1.950	4.230	98.000
51	2.550	8.366	26.870	26.879	1.014	1.470	3.772	88.900
52	2.600	8.530	26.100	26.097	0.928	-0.520	3.556	91.800
53	2.650	8.694	24.250	24.238	0.755	-1.870	3.115	87.400
54	2.700	8.858	20.980	20.966	0.620	-2.310	2.957	90.500
55	2.750	9.022	19.760	19.742	0.539	-2.860	2.730	88.100
56	2.800	9.186	18.760	18.743	0.518	-2.780	2.764	94.900
57	2.850	9.350	17.960	17.946	0.474	-2.320	2.641	98.400
58	2.900	9.514	16.740	16.729	0.400	-1.770	2.391	90.500
59	2.950	9.678	16.550	16.541	0.375	-1.470	2.267	101.900
60	3.000	9.842	17.290	17.284	0.354	-0.950	2.048	111.600
61	3.050	10.006	14.570	14.564	0.401	-0.970	2.753	104.700
62	3.100	10.170	12.320	12.314	0.424	-1.040	3.443	104.300
63	3.150	10.335	11.740	11.733	0.412	-1.100	3.511	103.500
64	3.200	10.499	11.370	11.364	0.418	-0.960	3.678	94.900
65	3.250	10.663	11.110	11.101	0.369	-1.460	3.324	85.100
66	3.300	10.827	11.520	11.511	0.363	-1.400	3.153	85.200
67	3.350	10.991	11.620	11.610	0.352	-1.540	3.032	84.100
68	3.400	11.155	10.100	10.091	0.275	-1.410	2.725	90.500
69	3.450	11.319	11.670	11.665	0.309	-0.820	2.649	79.600
70	3.500	11.483	11.730	11.727	0.302	-0.540	2.575	73.100
71	3.550	11.647	8.640	8.633	0.314	-1.060	3.637	84.000
72	3.600	11.811	8.300	8.296	0.265	-0.600	3.194	87.100
73	3.650	11.975	8.100	8.094	0.221	-0.930	2.730	85.200
74	3.700	12.139	7.220	7.219	0.205	-0.110	2.840	86.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	8.790	8.798	0.205	1.340	2.330	72.600
76	3.800	12.467	7.840	7.851	0.182	1.740	2.318	82.800
77	3.850	12.631	7.330	7.346	0.167	2.540	2.273	80.800
78	3.900	12.795	7.350	7.372	0.179	3.580	2.428	98.700
79	3.950	12.959	7.490	7.512	0.218	3.490	2.902	81.500
80	4.000	13.123	8.670	8.700	0.227	4.790	2.609	93.900
81	4.050	13.287	8.850	8.879	0.255	4.700	2.872	93.100
82	4.100	13.451	8.430	8.457	0.265	4.260	3.134	86.900
83	4.150	13.615	8.510	8.533	0.413	3.660	4.840	91.900
84	4.200	13.779	17.970	17.979	0.397	1.520	2.208	79.600
85	4.250	13.943	18.600	18.580	0.536	-3.200	2.885	77.600
86	4.300	14.107	11.640	11.597	0.543	-6.810	4.682	78.300
87	4.350	14.271	11.360	11.511	0.525	24.260	4.561	88.100
88	4.400	14.436	40.540	40.677	0.427	21.990	1.050	80.200
89	4.450	14.600	68.180	68.265	0.483	13.660	0.708	80.900
90	4.500	14.764	69.910	69.959	0.745	7.900	1.065	81.000
91	4.550	14.928	74.450	74.491	1.185	6.590	1.591	79.400
92	4.600	15.092	75.770	75.808	2.626	6.040	3.464	74.200
93	4.650	15.256	80.000	80.009	1.860	1.500	2.325	82.000
94	4.700	15.420	89.590	89.570	2.629	-3.250	2.935	75.100
95	4.750	15.584	99.060	99.014	2.188	-7.410	2.210	77.700
96	4.800	15.748	61.730	61.662	2.578	-10.870	4.181	79.000
97	4.850	15.912	79.300	79.235	2.752	-10.370	3.473	89.100
98	4.900	16.076	64.150	64.099	2.211	-8.100	3.449	81.900
99	4.950	16.240	86.710	86.661	2.033	-7.890	2.346	86.100
100	5.000	16.404	91.550	91.500	2.460	-7.990	2.689	97.700
101	5.050	16.568	100.480	100.429	2.623	-8.160	2.612	97.000
102	5.100	16.732	102.980	102.927	2.717	-8.550	2.640	82.000
103	5.150	16.896	84.250	84.193	2.647	-9.190	3.144	79.500
104	5.200	17.060	73.960	73.900	2.417	-9.620	3.271	72.600
105	5.250	17.224	80.720	80.661	2.162	-9.420	2.680	66.600
106	5.300	17.388	34.410	34.396	1.828	-2.230	5.315	78.500
107	5.350	17.552	23.620	23.616	1.353	-0.680	5.729	80.800
108	5.400	17.716	40.630	40.627	1.070	-0.470	2.634	77.000
109	5.450	17.880	89.290	89.287	1.367	-0.410	1.531	69.500
110	5.500	18.044	133.180	133.177	1.922	-0.480	1.443	83.800
111	5.550	18.208	146.150	146.146	2.472	-0.640	1.691	74.600
112	5.600	18.372	147.570	147.566	2.433	-0.580	1.649	63.000
113	5.650	18.537	105.270	105.264	1.537	-0.930	1.460	58.300
114	5.700	18.701	118.190	118.182	3.291	-1.300	2.785	44.800
115	5.750	18.865	215.500	215.493	3.763	-1.180	1.746	37.200
116	5.800	19.029	10.810	10.816	3.708	0.900	34.284	37.600
117	5.850	19.193	8.880	8.889	2.347	1.490	26.403	35.400
118	5.900	19.357	3.940	3.949	0.005	1.450	0.127	31.800
119	5.950	19.521	0.870	0.879	0.004	1.450	0.455	22.400
120	6.000	19.685	1.030	1.040	0.041	1.540	3.944	17.600
121	6.050	19.849	1.500	1.512	2.809	1.860	185.828	21.200
122	6.100	20.013	226.530	226.544	3.914	2.170	1.728	12.500
123	6.150	20.177	45.660	45.679	3.710	3.080	8.122	6.500
124	6.200	20.341	55.210	55.272	3.555	9.920	6.432	9.200
125	6.250	20.505	52.440	52.483	1.711	6.960	3.260	13.800
126	6.300	20.669	27.060	27.097	1.175	5.930	4.336	11.000
127	6.350	20.833	20.040	20.075	0.929	5.570	4.628	16.800
128	6.400	20.997	31.850	31.872	0.981	3.480	3.078	22.400
129	6.450	21.161	38.060	38.080	1.038	3.140	2.726	29.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	26.320	26.339	1.077	3.100	4.089	33.800
131	6.550	21.489	16.390	16.417	0.519	4.270	3.161	44.800
132	6.600	21.653	56.910	56.940	0.979	4.740	1.719	50.500
133	6.650	21.817	52.840	52.862	1.128	3.550	2.134	60.800
134	6.700	21.981	30.840	30.860	1.065	3.210	3.451	57.200
135	6.750	22.145	34.100	34.126	1.271	4.220	3.724	44.000
136	6.800	22.309	38.690	38.695	0.815	0.860	2.106	32.600
137	6.850	22.473	34.710	34.724	0.750	2.230	2.160	32.600
138	6.900	22.638	32.980	32.984	0.662	0.700	2.007	29.800
139	6.950	22.802	18.890	18.898	0.724	1.300	3.831	33.600
140	7.000	22.966	27.560	27.568	0.703	1.320	2.550	35.500
141	7.050	23.130	16.720	16.737	0.655	2.740	3.913	49.700
142	7.100	23.294	32.580	32.611	0.685	4.910	2.101	52.200
143	7.150	23.458	71.010	71.041	0.656	4.940	0.923	50.500
144	7.200	23.622	79.160	79.187	0.949	4.340	1.198	49.200
145	7.250	23.786	75.310	75.334	1.462	3.850	1.941	44.500
146	7.300	23.950	122.680	122.704	2.025	3.830	1.650	31.800
147	7.350	24.114	55.560	55.584	2.146	3.790	3.861	23.600
148	7.400	24.278	53.030	53.048	1.541	2.910	2.905	19.700
149	7.450	24.442	17.160	17.182	0.719	3.480	4.185	23.100
150	7.500	24.606	36.650	36.672	1.049	3.580	2.860	22.400
151	7.550	24.770	33.570	33.589	0.836	3.030	2.489	29.300
152	7.600	24.934	30.210	30.244	0.850	5.460	2.810	33.500
153	7.650	25.098	24.150	24.178	0.782	4.460	3.234	36.400
154	7.700	25.262	22.380	22.409	0.727	4.710	3.244	50.500
155	7.750	25.426	26.460	26.496	0.818	5.710	3.087	64.700
156	7.800	25.590	46.400	46.429	1.014	4.580	2.184	64.000
157	7.850	25.754	47.000	47.012	0.992	1.990	2.110	62.900
158	7.900	25.918	68.420	68.439	1.026	3.010	1.499	62.700
159	7.950	26.082	50.830	50.825	0.982	-0.770	1.932	53.500
160	8.000	26.246	36.880	36.873	0.826	-1.070	2.240	47.100
161	8.050	26.410	33.830	33.825	0.809	-0.870	2.392	41.400
162	8.100	26.574	35.830	35.841	0.829	1.780	2.313	36.700
163	8.150	26.739	12.510	12.530	1.395	3.240	11.133	38.900
164	8.200	26.903	10.830	10.858	0.910	4.520	8.381	26.600
165	8.250	27.067	32.200	32.213	0.288	2.100	0.894	30.600
166	8.300	27.231	13.780	13.799	0.618	3.030	4.479	28.800
167	8.350	27.395	23.980	24.006	0.741	4.130	3.087	38.100
168	8.400	27.559	20.150	20.187	0.823	5.860	4.077	35.000
169	8.450	27.723	25.840	25.874	0.947	5.500	3.660	43.000
170	8.500	27.887	27.150	27.181	0.711	5.000	2.616	53.200
171	8.550	28.051	26.650	26.683	0.601	5.290	2.252	72.900
172	8.600	28.215	33.980	34.012	0.449	5.160	1.320	72.000
173	8.650	28.379	36.210	36.241	0.446	5.000	1.231	75.300
174	8.700	28.543	36.070	36.101	0.524	4.920	1.451	66.200
175	8.750	28.707	38.960	38.991	0.922	5.030	2.365	50.100
176	8.800	28.871	40.160	40.190	1.023	4.770	2.545	41.200
177	8.850	29.035	41.770	41.799	1.316	4.570	3.148	32.700
178	8.900	29.199	45.660	45.689	0.743	4.650	1.626	22.800
179	8.950	29.363	63.750	63.773	1.102	3.630	1.728	24.100
180	9.000	29.527	154.310	154.333	2.229	3.760	1.444	22.600
181	9.050	29.691	186.350	186.371	3.158	3.380	1.694	25.000
182	9.100	29.855	57.200	57.224	3.309	3.830	5.783	24.000
183	9.150	30.019	24.770	24.796	1.719	4.210	6.932	31.000
184	9.200	30.183	39.840	39.871	1.179	4.940	2.957	34.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	57.940	57.975	1.093	5.670	1.885	36.500
186	9.300	30.511	43.480	43.512	1.126	5.170	2.588	41.700
187	9.350	30.675	126.230	126.271	1.911	6.490	1.513	50.200
188	9.400	30.840	190.070	190.054	2.207	-2.500	1.161	66.100
189	9.450	31.004	202.380	202.342	3.037	-6.080	1.501	73.200
190	9.500	31.168	158.980	158.932	4.256	-7.640	2.678	77.900
191	9.550	31.332	126.330	126.281	4.275	-7.870	3.385	50.000
192	9.600	31.496	121.780	121.728	3.643	-8.310	2.993	39.000
193	9.650	31.660	102.360	102.369	2.807	1.520	2.742	30.000
194	9.700	31.824	66.560	66.576	3.457	2.580	5.193	24.700
195	9.750	31.988	93.120	93.145	2.983	4.010	3.203	20.100
196	9.800	32.152	61.420	61.418	2.284	-0.310	3.719	19.400
197	9.850	32.316	33.250	33.256	1.797	1.020	5.403	29.200
198	9.900	32.480	45.290	45.301	1.405	1.840	3.101	20.700
199	9.950	32.644	21.520	21.537	1.121	2.790	5.205	20.000
200	10.000	32.808	22.570	22.589	0.942	3.030	4.170	16.200
201	10.050	32.972	26.960	26.978	0.856	2.920	3.173	10.600
202	10.100	33.136	21.610	21.625	0.960	2.400	4.439	12.000
203	10.150	33.300	26.800	26.816	1.147	2.570	4.277	10.200
204	10.200	33.464	20.240	20.256	1.261	2.540	6.225	9.300
205	10.250	33.628	26.280	26.295	0.819	2.460	3.115	15.100
206	10.300	33.792	24.510	24.527	0.965	2.650	3.935	19.400
207	10.350	33.956	37.590	37.609	1.038	2.970	2.760	15.300
208	10.400	34.120	33.490	33.512	1.096	3.500	3.270	13.200
209	10.450	34.284	43.490	43.509	1.072	3.120	2.464	16.800
210	10.500	34.448	49.520	49.544	1.445	3.820	2.917	19.800
211	10.550	34.612	36.050	36.075	1.578	4.030	4.374	19.700
212	10.600	34.776	49.880	49.914	1.693	5.400	3.392	29.600
213	10.650	34.941	47.330	47.365	1.902	5.630	4.016	33.700
214	10.700	35.105	58.910	58.943	1.671	5.240	2.835	36.200
215	10.750	35.269	20.060	20.095	1.196	5.610	5.952	38.100
216	10.800	35.433	29.020	29.053	1.117	5.350	3.845	36.400
217	10.850	35.597	46.380	46.408	1.073	4.430	2.312	40.200
218	10.900	35.761	48.830	48.852	1.283	3.570	2.626	32.200
219	10.950	35.925	38.000	38.025	1.143	4.040	3.006	37.900
220	11.000	36.089	23.450	23.473	0.992	3.650	4.226	43.100
221	11.050	36.253	26.080	26.104	0.676	3.910	2.590	37.400
222	11.100	36.417	24.210	24.236	0.734	4.150	3.029	33.800
223	11.150	36.581	44.320	44.342	1.153	3.450	2.600	37.400
224	11.200	36.745	24.760	24.783	1.003	3.740	4.047	36.100
225	11.250	36.909	28.970	28.991	0.760	3.440	2.621	41.200
226	11.300	37.073	20.590	20.608	0.536	2.950	2.601	43.100
227	11.350	37.237	17.840	17.859	0.577	3.060	3.231	51.200
228	11.400	37.401	19.260	19.277	0.554	2.700	2.874	59.000
229	11.450	37.565	18.890	18.919	0.885	4.630	4.678	77.900
230	11.500	37.729	35.640	35.675	1.167	5.680	3.271	69.500
231	11.550	37.893	71.480	71.511	1.311	4.980	1.833	77.000
232	11.600	38.057	44.810	44.823	1.652	2.130	3.686	93.400
233	11.650	38.221	43.300	43.309	1.725	1.480	3.983	94.900
234	11.700	38.385	40.080	40.091	1.306	1.770	3.258	87.800
235	11.750	38.549	35.010	35.022	1.170	2.000	3.341	87.800
236	11.800	38.713	39.720	39.734	1.279	2.200	3.219	94.400
237	11.850	38.877	43.680	43.693	1.302	2.090	2.980	77.500
238	11.900	39.042	33.030	33.041	1.275	1.770	3.859	78.200
239	11.950	39.206	29.130	29.142	1.154	1.890	3.960	63.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	26.650	26.662	1.037	1.990	3.889	72.900
241	12.050	39.534	28.400	28.414	1.162	2.170	4.090	44.200
242	12.100	39.698	36.110	36.126	1.066	2.510	2.951	37.300
243	12.150	39.862	61.200	61.216	1.816	2.610	2.967	36.100
244	12.200	40.026	105.980	105.996	2.253	2.630	2.126	39.400
245	12.250	40.190	68.940	68.976	1.837	5.790	2.663	44.200
246	12.300	40.354	36.720	36.764	1.876	6.970	5.103	40.300
247	12.350	40.518	69.210	69.270	1.408	9.590	2.033	52.200
248	12.400	40.682	61.570	61.598	1.693	4.480	2.748	55.500
249	12.450	40.846	45.290	45.321	1.630	4.970	3.597	74.200
250	12.500	41.010	40.030	40.102	1.357	11.480	3.384	69.800
251	12.550	41.174	32.650	32.721	0.912	11.410	2.787	86.000
252	12.600	41.338	26.930	27.003	0.957	11.640	3.544	77.700
253	12.650	41.502	32.090	32.165	1.037	11.950	3.224	91.400
254	12.700	41.666	36.470	36.547	1.052	12.300	2.879	81.300
255	12.750	41.830	34.310	34.386	1.054	12.120	3.065	76.400
256	12.800	41.994	24.600	24.669	0.926	11.060	3.754	56.500
257	12.850	42.158	24.950	25.013	0.794	10.110	3.174	49.400
258	12.900	42.322	25.230	25.294	0.774	10.260	3.060	37.300
259	12.950	42.486	25.270	25.333	0.808	10.060	3.190	47.900
260	13.000	42.650	36.240	36.299	1.167	9.530	3.215	87.300
261	13.050	42.814	44.380	44.438	1.581	9.290	3.558	79.000
262	13.100	42.978	53.160	53.213	1.518	8.450	2.853	55.900
263	13.150	43.143	88.750	88.801	1.510	8.150	1.700	49.200
264	13.200	43.307	36.610	36.659	1.682	7.830	4.588	35.500
265	13.250	43.471	35.250	35.302	1.648	8.400	4.668	29.800
266	13.300	43.635	49.270	49.323	1.405	8.550	2.849	28.400
267	13.350	43.799	29.860	29.917	1.564	9.170	5.228	23.700
268	13.400	43.963	53.740	53.792	1.627	8.370	3.025	22.100
269	13.450	44.127	35.740	35.787	1.550	7.590	4.331	24.600
270	13.500	44.291	44.790	44.845	1.807	8.870	4.029	23.900
271	13.550	44.455	40.160	40.220	1.914	9.690	4.759	34.500
272	13.600	44.619	40.430	40.490	1.967	9.560	4.858	37.000
273	13.650	44.783	33.440	33.494	1.854	8.640	5.535	32.800
274	13.700	44.947	34.480	34.531	0.960	8.100	2.780	50.100
275	13.750	45.111	38.540	38.593	0.737	8.410	1.910	75.400
276	13.800	45.275	15.120	15.172	0.599	8.340	3.948	107.100
277	13.850	45.439	17.210	17.271	0.603	9.780	3.491	138.100
278	13.900	45.603	25.820	25.867	0.600	7.510	2.320	143.300
279	13.950	45.767	24.390	24.436	0.740	7.300	3.028	153.100
280	14.000	45.931	23.370	23.417	0.795	7.480	3.395	163.200
281	14.050	46.095	21.940	21.986	0.558	7.350	2.538	150.400
282	14.100	46.259	15.820	15.867	0.386	7.570	2.433	103.500
283	14.150	46.423	15.380	15.429	0.388	7.820	2.515	105.100
284	14.200	46.587	46.400	46.450	0.537	7.990	1.156	90.300
285	14.250	46.751	102.380	102.429	0.945	7.910	0.923	74.100
286	14.300	46.915	123.930	123.979	1.416	7.860	1.142	78.700
287	14.350	47.079	126.890	126.940	1.756	7.950	1.383	89.800
288	14.400	47.244	92.720	92.770	2.403	8.070	2.590	79.300
289	14.450	47.408	71.890	71.940	2.075	8.050	2.884	92.000
290	14.500	47.572	52.030	52.084	1.683	8.600	3.231	86.900
291	14.550	47.736	47.890	47.945	1.620	8.880	3.379	92.100
292	14.600	47.900	39.490	39.544	1.160	8.720	2.933	89.600
293	14.650	48.064	26.610	26.665	1.350	8.790	5.063	0.000
294	14.700	48.228	39.050	39.107	1.625	9.060	4.155	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	47.220	47.276	1.603	8.910	3.391	0.000
296	14.800	48.556	53.630	53.678	1.847	7.750	3.441	0.000
297	14.850	48.720	42.650	42.690	2.260	6.400	5.294	0.000
298	14.900	48.884	41.860	41.888	2.293	4.520	5.474	0.000
299	14.950	49.048	66.170	66.197	4.084	4.390	6.169	0.000
300	15.000	49.212	90.190	90.218	3.497	4.460	3.876	0.000
301	15.050	49.376	17.580	17.605	3.438	4.000	19.529	0.000
302	15.100	49.540	29.550	29.576	2.581	4.100	8.727	0.000
303	15.150	49.704	15.620	15.647	0.828	4.340	5.292	0.000
304	15.200	49.868	16.790	16.818	0.789	4.520	4.691	0.000
305	15.250	50.032	17.850	17.879	1.014	4.580	5.672	0.000
306	15.300	50.196	42.510	42.539	1.763	4.640	4.144	0.000
307	15.350	50.360	116.600	116.630	2.176	4.870	1.866	0.000
308	15.400	50.524	221.860	221.889	0.000	4.670	0.000	0.000
309	15.450	50.688	363.200	363.210	0.000	1.660	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221590
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-12-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-20-2013
CPT Time:	15:52
CPT File:	13-53075_GP12-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722230.456
Northing / Lat:	4294371.990
Elevation:	146.000
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	37.710	37.712	0.028	0.330	0.074	31.700
2	0.100	0.328	57.540	57.544	0.175	0.630	0.304	37.700
3	0.150	0.492	53.540	53.544	0.392	0.690	0.732	44.900
4	0.200	0.656	61.620	61.623	0.691	0.490	1.121	61.100
5	0.250	0.820	29.250	29.251	0.681	0.160	2.328	68.100
6	0.300	0.984	31.440	31.448	1.000	1.300	3.180	87.400
7	0.350	1.148	31.130	31.136	0.958	0.910	3.077	78.500
8	0.400	1.312	41.730	41.732	1.374	0.280	3.292	84.600
9	0.450	1.476	177.060	177.066	2.491	0.920	1.407	65.700
10	0.500	1.640	75.250	75.264	3.614	2.260	4.802	77.300
11	0.550	1.804	49.590	49.595	3.231	0.740	6.515	83.600
12	0.600	1.968	78.640	78.647	1.786	1.120	2.271	73.800
13	0.650	2.133	102.020	102.025	1.743	0.760	1.708	71.300
14	0.700	2.297	124.670	124.683	2.053	2.120	1.647	74.700
15	0.750	2.461	102.730	102.746	2.355	2.620	2.292	73.300
16	0.800	2.625	82.650	82.667	2.417	2.780	2.924	78.100
17	0.850	2.789	48.370	48.388	2.484	2.940	5.133	84.800
18	0.900	2.953	47.910	47.928	2.377	2.930	4.959	80.700
19	0.950	3.117	52.000	52.011	2.020	1.810	3.884	89.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	45.060	45.078	1.678	2.850	3.722	98.700
21	1.050	3.445	42.340	42.360	1.533	3.140	3.619	87.600
22	1.100	3.609	47.600	47.617	1.452	2.690	3.049	86.100
23	1.150	3.773	51.800	51.807	1.404	1.060	2.710	90.400
24	1.200	3.937	55.360	55.359	1.431	-0.160	2.585	77.300
25	1.250	4.101	58.340	58.331	1.524	-1.370	2.613	77.400
26	1.300	4.265	52.850	52.834	1.558	-2.640	2.949	82.100
27	1.350	4.429	46.230	46.209	2.981	-3.430	6.451	68.200
28	1.400	4.593	53.640	53.623	1.570	-2.740	2.928	72.200
29	1.450	4.757	214.280	214.274	0.814	-0.940	0.380	70.300
30	1.500	4.921	201.740	201.735	1.899	-0.800	0.941	57.500
31	1.550	5.085	137.820	137.821	1.850	0.200	1.342	59.700
32	1.600	5.249	113.530	113.533	1.267	0.520	1.116	65.200
33	1.650	5.413	63.500	63.515	0.938	2.400	1.477	66.600
34	1.700	5.577	29.020	29.023	0.782	0.450	2.694	66.900
35	1.750	5.741	21.020	21.024	0.573	0.620	2.725	81.200
36	1.800	5.905	16.580	16.584	0.578	0.680	3.485	75.800
37	1.850	6.069	12.980	12.990	0.446	1.540	3.434	93.400
38	1.900	6.234	16.010	16.015	0.420	0.790	2.623	80.600
39	1.950	6.398	17.610	17.611	0.453	0.170	2.572	92.800
40	2.000	6.562	16.460	16.456	0.507	-0.640	3.081	62.900
41	2.050	6.726	15.550	15.548	0.507	-0.340	3.261	83.000
42	2.100	6.890	12.560	12.557	0.499	-0.420	3.974	83.600
43	2.150	7.054	9.460	9.458	0.447	-0.270	4.726	81.100
44	2.200	7.218	7.570	7.572	0.459	0.260	6.062	80.200
45	2.250	7.382	7.950	7.956	0.324	0.990	4.072	80.900
46	2.300	7.546	19.190	19.165	0.284	-4.070	1.482	92.100
47	2.350	7.710	25.300	25.252	0.916	-7.610	3.627	84.200
48	2.400	7.874	24.240	24.234	0.928	-0.930	3.829	82.700
49	2.450	8.038	8.490	8.484	0.933	-0.940	10.997	79.000
50	2.500	8.202	12.470	12.447	0.785	-3.710	6.307	80.900
51	2.550	8.366	13.240	13.219	0.454	-3.320	3.434	81.000
52	2.600	8.530	12.860	12.857	0.539	-0.520	4.192	81.200
53	2.650	8.694	8.940	8.939	1.370	-0.180	15.326	69.300
54	2.700	8.858	8.150	8.148	0.411	-0.330	5.044	65.900
55	2.750	9.022	186.850	186.860	0.310	1.610	0.166	59.000
56	2.800	9.186	20.960	20.959	1.856	-0.190	8.855	64.000
57	2.850	9.350	22.070	22.070	4.367	-0.040	19.787	60.800
58	2.900	9.514	123.540	123.539	4.588	-0.150	3.714	67.300
59	2.950	9.678	232.320	232.319	4.370	-0.130	1.881	57.700
60	3.000	9.842	267.730	267.729	2.333	-0.090	0.871	77.700
61	3.050	10.006	152.330	152.330	1.734	-0.070	1.138	68.100
62	3.100	10.170	144.760	144.759	1.371	-0.140	0.947	84.300
63	3.150	10.335	132.320	132.319	2.150	-0.200	1.625	84.400
64	3.200	10.499	105.900	105.900	1.202	-0.040	1.135	83.100
65	3.250	10.663	26.360	26.360	2.675	0.050	10.148	95.800
66	3.300	10.827	50.930	50.930	2.306	0.040	4.528	82.600
67	3.350	10.991	38.200	38.201	1.211	0.210	3.170	91.500
68	3.400	11.155	30.400	30.401	0.852	0.240	2.802	90.700
69	3.450	11.319	29.250	29.250	0.561	0.060	1.918	95.600
70	3.500	11.483	23.840	23.840	0.643	0.060	2.697	99.100
71	3.550	11.647	20.670	20.673	0.638	0.490	3.086	89.400
72	3.600	11.811	18.910	18.913	0.815	0.450	4.309	93.800
73	3.650	11.975	16.230	16.232	0.808	0.300	4.978	98.100
74	3.700	12.139	13.010	13.014	0.691	0.720	5.309	92.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	10.120	10.131	0.565	1.730	5.577	91.300
76	3.800	12.467	12.990	13.005	0.569	2.350	4.375	94.200
77	3.850	12.631	18.920	18.928	0.648	1.340	3.423	90.000
78	3.900	12.795	21.500	21.498	0.842	-0.280	3.917	90.200
79	3.950	12.959	26.030	26.039	0.995	1.440	3.821	95.900
80	4.000	13.123	40.500	40.518	1.132	2.890	2.794	102.100
81	4.050	13.287	43.800	43.805	1.134	0.740	2.589	86.000
82	4.100	13.451	41.350	41.336	1.181	-2.260	2.857	97.600
83	4.150	13.615	33.630	33.614	1.216	-2.510	3.618	71.600
84	4.200	13.779	32.250	32.239	1.413	-1.710	4.383	56.500
85	4.250	13.943	42.980	42.990	1.861	1.540	4.329	49.600
86	4.300	14.107	73.170	73.150	1.968	-3.250	2.690	41.300
87	4.350	14.271	48.930	48.902	1.692	-4.490	3.460	28.600
88	4.400	14.436	43.650	43.653	0.792	0.430	1.814	30.900
89	4.450	14.600	53.190	53.202	1.123	1.880	2.111	25.100
90	4.500	14.764	72.160	72.171	1.390	1.710	1.926	30.400
91	4.550	14.928	49.520	49.566	1.456	7.380	2.937	21.800
92	4.600	15.092	71.050	71.085	1.697	5.590	2.387	28.000
93	4.650	15.256	118.650	118.666	2.312	2.520	1.948	30.200
94	4.700	15.420	109.620	109.646	1.901	4.200	1.734	37.400
95	4.750	15.584	111.750	111.759	1.911	1.380	1.710	42.700
96	4.800	15.748	24.360	24.371	2.860	1.710	11.735	67.300
97	4.850	15.912	44.470	44.508	2.427	6.050	5.453	92.200
98	4.900	16.076	31.380	31.423	0.816	6.840	2.597	84.000
99	4.950	16.240	18.550	18.616	0.813	10.560	4.367	113.800
100	5.000	16.404	26.660	26.727	0.786	10.800	2.941	121.800
101	5.050	16.568	23.960	23.992	0.882	5.140	3.676	107.500
102	5.100	16.732	18.050	18.032	0.961	-2.910	5.329	107.400
103	5.150	16.896	14.780	14.756	0.918	-3.820	6.221	95.400
104	5.200	17.060	14.200	14.175	0.888	-4.050	6.265	74.700
105	5.250	17.224	12.990	13.134	0.666	23.000	5.071	59.200
106	5.300	17.388	24.670	24.774	0.535	16.650	2.160	49.500
107	5.350	17.552	80.200	80.267	0.515	10.790	0.642	38.900
108	5.400	17.716	123.680	123.731	1.040	8.180	0.841	37.300
109	5.450	17.880	35.740	35.794	0.983	8.710	2.746	49.400
110	5.500	18.044	11.690	11.724	0.722	5.400	6.158	50.600
111	5.550	18.208	36.900	36.936	0.885	5.770	2.396	72.200
112	5.600	18.372	36.730	36.765	1.460	5.670	3.971	86.900
113	5.650	18.537	27.860	27.899	1.576	6.300	5.649	85.900
114	5.700	18.701	26.710	26.769	1.432	9.530	5.349	63.000
115	5.750	18.865	45.490	45.548	1.518	9.360	3.333	45.600
116	5.800	19.029	57.440	57.493	2.417	8.540	4.204	44.200
117	5.850	19.193	78.310	78.367	2.641	9.060	3.370	41.700
118	5.900	19.357	52.170	52.226	2.749	9.040	5.264	29.200
119	5.950	19.521	66.710	66.776	2.525	10.590	3.781	28.900
120	6.000	19.685	40.950	41.005	2.514	8.780	6.131	32.900
121	6.050	19.849	46.960	47.027	2.776	10.740	5.903	40.600
122	6.100	20.013	91.020	91.086	2.036	10.550	2.235	51.900
123	6.150	20.177	38.270	38.324	2.204	8.640	5.751	57.300
124	6.200	20.341	58.490	58.517	1.795	4.250	3.068	67.100
125	6.250	20.505	35.490	35.516	1.092	4.180	3.075	65.900
126	6.300	20.669	35.440	35.469	1.074	4.640	3.028	71.000
127	6.350	20.833	49.810	49.838	1.094	4.550	2.195	77.500
128	6.400	20.997	46.770	46.797	0.896	4.390	1.915	136.100
129	6.450	21.161	42.440	42.465	0.692	4.080	1.630	216.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	37.620	37.666	0.689	7.430	1.829	268.300
131	6.550	21.489	37.780	37.832	0.899	8.330	2.376	316.900
132	6.600	21.653	51.330	51.385	1.469	8.870	2.859	267.200
133	6.650	21.817	61.100	61.155	2.361	8.860	3.861	211.100
134	6.700	21.981	107.470	107.513	2.137	6.890	1.988	205.900
135	6.750	22.145	162.310	162.338	1.993	4.540	1.228	313.500
136	6.800	22.309	144.980	145.006	1.877	4.100	1.294	530.200
137	6.850	22.473	95.860	95.880	1.912	3.200	1.994	709.900
138	6.900	22.638	68.550	68.573	2.391	3.730	3.487	737.000
139	6.950	22.802	64.440	64.464	2.665	3.800	4.134	549.300
140	7.000	22.966	82.100	82.128	2.208	4.420	2.688	414.000
141	7.050	23.130	101.920	101.945	2.188	3.980	2.146	362.700
142	7.100	23.294	49.230	49.250	2.108	3.180	4.280	370.200
143	7.150	23.458	37.890	37.914	1.895	3.810	4.998	475.200
144	7.200	23.622	31.930	31.963	1.908	5.230	5.969	796.300
145	7.250	23.786	39.780	39.812	2.162	5.090	5.431	1763.100
146	7.300	23.950	36.490	36.513	1.985	3.640	5.436	3571.000
147	7.350	24.114	33.440	33.461	1.866	3.410	5.577	5135.100
148	7.400	24.278	26.320	26.338	1.569	2.830	5.957	4585.800
149	7.450	24.442	31.580	31.600	1.826	3.260	5.778	2368.000
150	7.500	24.606	59.420	59.444	2.213	3.900	3.723	987.300
151	7.550	24.770	42.870	42.868	2.232	-0.400	5.207	460.900
152	7.600	24.934	46.930	46.939	2.019	1.410	4.301	229.400
153	7.650	25.098	39.170	39.218	1.511	7.670	3.853	121.400
154	7.700	25.262	52.900	52.947	1.942	7.540	3.668	76.500
155	7.750	25.426	63.320	63.363	2.024	6.920	3.194	55.900
156	7.800	25.590	58.440	58.481	1.897	6.550	3.244	44.000
157	7.850	25.754	62.310	62.355	1.956	7.200	3.137	46.100
158	7.900	25.918	29.490	29.538	1.685	7.650	5.705	36.400
159	7.950	26.082	26.890	26.934	1.267	7.000	4.704	31.200
160	8.000	26.246	27.960	27.993	1.195	5.260	4.269	43.600
161	8.050	26.410	28.500	28.536	1.150	5.730	4.030	46.400
162	8.100	26.574	20.360	20.403	0.921	6.840	4.514	65.800
163	8.150	26.739	16.080	16.137	0.711	9.200	4.406	82.700
164	8.200	26.903	17.870	17.934	0.567	10.200	3.162	78.400
165	8.250	27.067	21.540	21.605	0.882	10.420	4.082	80.600
166	8.300	27.231	27.590	27.656	0.926	10.520	3.348	72.500
167	8.350	27.395	16.660	16.723	0.828	10.170	4.951	59.600
168	8.400	27.559	19.420	19.488	1.014	10.860	5.203	46.000
169	8.450	27.723	40.560	40.623	1.073	10.130	2.641	32.700
170	8.500	27.887	38.450	38.493	1.336	6.870	3.471	26.900
171	8.550	28.051	40.760	40.807	2.300	7.480	5.636	26.900
172	8.600	28.215	111.600	111.638	2.911	6.120	2.608	29.900
173	8.650	28.379	79.000	79.034	3.201	5.380	4.050	31.800
174	8.700	28.543	56.560	56.596	2.653	5.720	4.688	33.600
175	8.750	28.707	27.930	27.963	2.144	5.330	7.667	36.400
176	8.800	28.871	61.900	61.936	2.459	5.740	3.970	49.500
177	8.850	29.035	65.510	65.539	1.890	4.700	2.884	57.200
178	8.900	29.199	29.810	29.824	1.514	2.280	5.076	58.300
179	8.950	29.363	19.740	19.754	0.737	2.180	3.731	58.600
180	9.000	29.527	15.810	15.825	0.645	2.410	4.076	55.700
181	9.050	29.691	10.380	10.394	0.756	2.240	7.273	40.800
182	9.100	29.855	65.030	65.052	1.811	3.500	2.784	34.000
183	9.150	30.019	64.640	64.664	1.669	3.790	2.581	31.400
184	9.200	30.183	28.800	28.837	2.207	5.960	7.653	29.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	26.810	26.831	1.397	3.430	5.207	34.100
186	9.300	30.511	29.930	29.958	1.312	4.480	4.379	43.500
187	9.350	30.675	28.760	28.781	1.215	3.430	4.221	55.100
188	9.400	30.840	45.910	45.927	1.104	2.650	2.404	69.800
189	9.450	31.004	47.410	47.430	1.071	3.250	2.258	66.800
190	9.500	31.168	58.070	58.086	1.246	2.640	2.145	79.800
191	9.550	31.332	84.670	84.683	1.837	2.160	2.169	63.400
192	9.600	31.496	69.360	69.380	2.141	3.180	3.086	60.700
193	9.650	31.660	93.450	93.462	2.711	1.850	2.901	0.000
194	9.700	31.824	75.840	75.850	2.154	1.660	2.840	0.000
195	9.750	31.988	49.130	49.141	2.185	1.700	4.446	0.000
196	9.800	32.152	56.890	56.900	2.015	1.620	3.541	0.000
197	9.850	32.316	67.820	67.822	2.021	0.350	2.980	0.000
198	9.900	32.480	45.880	45.873	2.023	-1.110	4.410	0.000
199	9.950	32.644	35.870	35.869	1.926	-0.230	5.370	0.000
200	10.000	32.808	63.130	63.130	1.815	-0.040	2.875	0.000
201	10.050	32.972	48.740	48.737	2.276	-0.470	4.670	0.000
202	10.100	33.136	51.070	51.072	2.281	0.330	4.466	0.000
203	10.150	33.300	54.380	54.383	2.166	0.440	3.983	0.000
204	10.200	33.464	58.590	58.595	2.161	0.780	3.688	0.000
205	10.250	33.628	70.540	70.548	2.472	1.350	3.504	0.000
206	10.300	33.792	61.740	61.749	2.077	1.480	3.364	0.000
207	10.350	33.956	54.050	54.059	0.000	1.460	0.000	0.000
208	10.400	34.120	48.150	48.162	0.000	1.860	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221591
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-12-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-20-2013
CPT Time:	14:07
CPT File:	13-53075_GP12-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722238.555
Northing / Lat:	4294356.604
Elevation:	144.975
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	5.760	5.761	0.012	0.220	0.208	36.100
2	0.100	0.328	38.020	38.021	0.127	0.230	0.334	48.200
3	0.150	0.492	38.850	38.851	0.434	0.150	1.117	55.000
4	0.200	0.656	51.500	51.503	0.624	0.450	1.212	70.600
5	0.250	0.820	31.300	31.309	0.941	1.490	3.005	81.800
6	0.300	0.984	38.990	38.988	1.232	-0.320	3.160	100.200
7	0.350	1.148	36.170	36.153	1.361	-2.700	3.765	104.500
8	0.400	1.312	46.330	46.312	1.734	-2.930	3.744	109.100
9	0.450	1.476	65.460	65.446	2.058	-2.180	3.145	101.600
10	0.500	1.640	82.630	82.627	2.891	-0.460	3.499	98.400
11	0.550	1.804	93.350	93.355	3.540	0.730	3.792	103.300
12	0.600	1.968	101.010	101.014	4.310	0.690	4.267	87.100
13	0.650	2.133	93.310	93.311	4.485	0.090	4.807	77.300
14	0.700	2.297	77.330	77.332	4.290	0.400	5.547	93.500
15	0.750	2.461	73.070	73.070	3.717	-0.030	5.087	82.800
16	0.800	2.625	54.190	54.190	3.185	0.050	5.877	93.700
17	0.850	2.789	45.190	45.189	2.607	-0.150	5.769	100.300
18	0.900	2.953	46.110	46.109	2.292	-0.170	4.971	101.500
19	0.950	3.117	44.740	44.741	1.945	0.090	4.347	87.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	42.660	42.661	1.389	0.130	3.256	94.100
21	1.050	3.445	68.000	68.000	1.160	0.040	1.706	87.600
22	1.100	3.609	83.640	83.641	2.097	0.100	2.507	87.000
23	1.150	3.773	86.340	86.340	1.965	0.030	2.276	77.900
24	1.200	3.937	49.230	49.235	2.024	0.760	4.111	93.900
25	1.250	4.101	60.530	60.533	1.648	0.540	2.722	84.600
26	1.300	4.265	52.930	52.932	1.724	0.370	3.257	71.100
27	1.350	4.429	35.010	35.015	2.022	0.750	5.775	74.600
28	1.400	4.593	46.460	46.463	1.813	0.500	3.902	84.000
29	1.450	4.757	25.990	25.994	1.299	0.710	4.997	83.100
30	1.500	4.921	25.910	25.916	0.933	0.890	3.600	81.100
31	1.550	5.085	22.760	22.753	0.851	-1.110	3.740	70.400
32	1.600	5.249	20.200	20.193	0.776	-1.150	3.843	76.200
33	1.650	5.413	19.460	19.447	0.804	-2.060	4.134	83.200
34	1.700	5.577	28.510	28.495	0.819	-2.370	2.874	77.500
35	1.750	5.741	18.760	18.756	0.972	-0.660	5.182	80.100
36	1.800	5.905	18.140	18.136	0.772	-0.630	4.257	89.600
37	1.850	6.069	14.100	14.097	0.612	-0.520	4.341	83.200
38	1.900	6.234	14.350	14.340	0.539	-1.650	3.759	81.300
39	1.950	6.398	13.340	13.324	0.524	-2.630	3.933	85.300
40	2.000	6.562	10.490	10.472	0.531	-2.900	5.071	86.800
41	2.050	6.726	11.020	11.005	0.430	-2.400	3.907	77.100
42	2.100	6.890	8.660	8.640	0.339	-3.130	3.923	96.200
43	2.150	7.054	8.370	8.344	0.328	-4.180	3.931	77.200
44	2.200	7.218	10.590	10.583	0.352	-1.050	3.326	91.500
45	2.250	7.382	7.890	7.887	0.364	-0.530	4.615	83.400
46	2.300	7.546	7.230	7.227	0.329	-0.510	4.552	84.500
47	2.350	7.710	7.460	7.452	0.323	-1.300	4.334	95.600
48	2.400	7.874	11.580	11.570	0.364	-1.630	3.146	92.300
49	2.450	8.038	22.880	22.862	0.417	-2.820	1.824	85.000
50	2.500	8.202	25.690	25.668	0.507	-3.580	1.975	92.600
51	2.550	8.366	32.060	32.043	0.642	-2.710	2.004	84.300
52	2.600	8.530	26.590	26.559	0.638	-5.030	2.402	84.900
53	2.650	8.694	26.960	26.923	0.547	-5.960	2.032	90.400
54	2.700	8.858	35.880	35.841	0.616	-6.300	1.719	89.400
55	2.750	9.022	32.540	32.467	0.742	-11.760	2.285	79.800
56	2.800	9.186	48.910	48.827	0.948	-13.260	1.942	68.400
57	2.850	9.350	27.390	27.382	0.812	-1.270	2.965	69.000
58	2.900	9.514	18.520	18.515	0.856	-0.730	4.623	66.400
59	2.950	9.678	23.970	23.966	0.605	-0.710	2.524	53.700
60	3.000	9.842	27.110	27.099	0.927	-1.790	3.421	49.500
61	3.050	10.006	27.800	27.786	0.881	-2.300	3.171	50.000
62	3.100	10.170	25.260	25.247	0.621	-2.110	2.460	37.000
63	3.150	10.335	43.940	43.930	0.246	-1.570	0.560	21.800
64	3.200	10.499	51.340	51.340	1.431	0.080	2.787	22.600
65	3.250	10.663	95.650	95.655	1.680	0.870	1.756	19.800
66	3.300	10.827	27.530	27.566	1.578	5.730	5.724	16.500
67	3.350	10.991	16.460	16.499	1.106	6.220	6.704	13.100
68	3.400	11.155	71.170	71.214	1.297	7.090	1.821	16.600
69	3.450	11.319	116.640	116.672	1.597	5.190	1.369	18.800
70	3.500	11.483	79.600	79.622	1.732	3.560	2.175	18.300
71	3.550	11.647	33.840	33.846	1.417	1.030	4.187	30.100
72	3.600	11.811	44.250	44.258	1.128	1.240	2.549	32.700
73	3.650	11.975	45.060	45.069	0.658	1.520	1.460	45.900
74	3.700	12.139	13.120	13.140	0.537	3.270	4.087	42.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	10.740	10.766	0.502	4.100	4.663	43.700
76	3.800	12.467	15.160	15.207	0.537	7.490	3.531	40.300
77	3.850	12.631	23.160	23.208	0.437	7.690	1.883	40.600
78	3.900	12.795	28.540	28.542	0.375	0.340	1.314	40.600
79	3.950	12.959	17.240	17.240	0.311	0.040	1.804	45.300
80	4.000	13.123	53.510	53.510	0.416	-0.010	0.777	46.200
81	4.050	13.287	16.490	16.490	0.513	0.040	3.111	34.900
82	4.100	13.451	12.920	12.921	0.448	0.200	3.467	30.400
83	4.150	13.615	22.530	22.534	0.540	0.680	2.396	38.600
84	4.200	13.779	21.860	21.865	0.533	0.760	2.438	31.800
85	4.250	13.943	9.920	9.940	0.568	3.210	5.714	35.300
86	4.300	14.107	9.460	9.464	0.366	0.680	3.867	34.200
87	4.350	14.271	9.400	9.397	0.359	-0.410	3.820	34.300
88	4.400	14.436	7.340	7.348	0.251	1.260	3.416	44.800
89	4.450	14.600	19.100	19.129	1.118	4.670	5.844	31.200
90	4.500	14.764	90.970	90.983	1.349	2.050	1.483	37.200
91	4.550	14.928	46.640	46.645	1.409	0.820	3.021	39.300
92	4.600	15.092	20.100	20.102	0.661	0.400	3.288	42.400
93	4.650	15.256	5.600	5.604	0.140	0.650	2.498	53.900
94	4.700	15.420	3.180	3.183	0.127	0.550	3.989	66.900
95	4.750	15.584	8.810	8.809	0.276	-0.130	3.133	73.300
96	4.800	15.748	15.060	15.048	0.374	-1.940	2.485	70.000
97	4.850	15.912	16.760	16.737	0.636	-3.750	3.800	63.200
98	4.900	16.076	30.110	30.116	0.682	1.030	2.265	46.400
99	4.950	16.240	20.880	20.896	0.570	2.580	2.728	44.700
100	5.000	16.404	30.780	30.791	0.516	1.710	1.676	40.400
101	5.050	16.568	26.660	26.655	0.285	-0.870	1.069	33.600
102	5.100	16.732	35.730	35.731	0.304	0.110	0.851	27.200
103	5.150	16.896	36.510	36.511	0.417	0.210	1.142	26.200
104	5.200	17.060	24.660	24.664	0.415	0.640	1.683	26.600
105	5.250	17.224	21.420	21.440	0.531	3.150	2.477	26.000
106	5.300	17.388	16.110	16.121	0.475	1.730	2.947	34.100
107	5.350	17.552	7.660	7.670	0.336	1.680	4.380	41.300
108	5.400	17.716	6.510	6.516	0.335	0.920	5.141	59.700
109	5.450	17.880	15.420	15.422	0.196	0.360	1.271	60.900
110	5.500	18.044	5.520	5.542	0.247	3.600	4.456	66.200
111	5.550	18.208	7.310	7.329	0.170	3.060	2.320	74.800
112	5.600	18.372	8.930	8.956	0.198	4.150	2.211	84.100
113	5.650	18.537	9.200	9.244	0.205	7.030	2.218	76.700
114	5.700	18.701	9.800	9.841	0.195	6.520	1.982	80.400
115	5.750	18.865	8.550	8.583	0.192	5.300	2.237	76.800
116	5.800	19.029	7.170	7.171	0.177	0.180	2.468	74.000
117	5.850	19.193	7.210	7.180	0.156	-4.760	2.173	77.300
118	5.900	19.357	5.180	5.129	0.134	-8.100	2.612	67.400
119	5.950	19.521	3.920	3.867	0.099	-8.530	2.560	55.200
120	6.000	19.685	12.600	12.545	0.443	-8.870	3.531	45.900
121	6.050	19.849	27.620	27.583	0.503	-5.860	1.824	46.500
122	6.100	20.013	47.420	47.411	1.458	-1.510	3.075	34.800
123	6.150	20.177	99.120	99.122	2.192	0.300	2.211	41.400
124	6.200	20.341	39.730	39.738	2.314	1.300	5.823	43.200
125	6.250	20.505	21.750	21.774	2.059	3.830	9.456	31.900
126	6.300	20.669	39.780	39.795	1.141	2.430	2.867	29.500
127	6.350	20.833	50.830	50.829	1.015	-0.200	1.997	33.300
128	6.400	20.997	20.750	20.764	1.073	2.290	5.168	23.400
129	6.450	21.161	32.620	32.632	0.950	1.960	2.911	24.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	47.150	47.161	1.262	1.770	2.676	22.100
131	6.550	21.489	55.660	55.675	1.759	2.390	3.159	18.600
132	6.600	21.653	47.940	47.970	1.887	4.800	3.934	20.900
133	6.650	21.817	36.090	36.129	1.670	6.240	4.622	25.800
134	6.700	21.981	30.660	30.689	1.367	4.610	4.454	36.500
135	6.750	22.145	54.160	54.187	1.000	4.340	1.845	30.300
136	6.800	22.309	11.500	11.519	0.808	3.020	7.015	33.900
137	6.850	22.473	4.120	4.133	0.656	2.130	15.871	31.700
138	6.900	22.638	22.470	22.481	0.543	1.700	2.415	29.000
139	6.950	22.802	21.530	21.539	0.567	1.480	2.632	28.700
140	7.000	22.966	17.330	17.343	0.574	2.110	3.310	29.600
141	7.050	23.130	14.150	14.169	0.557	3.080	3.931	30.200
142	7.100	23.294	28.570	28.586	0.654	2.520	2.288	30.000
143	7.150	23.458	35.960	35.981	0.745	3.290	2.071	36.600
144	7.200	23.622	38.640	38.667	1.188	4.320	3.072	57.000
145	7.250	23.786	51.800	51.842	1.341	6.710	2.587	77.300
146	7.300	23.950	54.690	54.728	1.331	6.090	2.432	98.000
147	7.350	24.114	46.520	46.562	1.325	6.680	2.846	107.000
148	7.400	24.278	32.200	32.235	1.153	5.680	3.577	94.200
149	7.450	24.442	18.910	18.939	0.963	4.710	5.085	83.100
150	7.500	24.606	28.560	28.600	1.019	6.390	3.563	60.700
151	7.550	24.770	36.060	36.113	1.303	8.540	3.608	46.700
152	7.600	24.934	43.330	43.379	1.653	7.820	3.811	32.200
153	7.650	25.098	23.650	23.701	1.669	8.240	7.042	28.200
154	7.700	25.262	25.240	25.300	1.673	9.640	6.613	28.500
155	7.750	25.426	23.070	23.115	1.347	7.220	5.827	23.100
156	7.800	25.590	30.060	30.105	1.567	7.210	5.205	19.600
157	7.850	25.754	44.020	44.069	1.772	7.900	4.021	19.800
158	7.900	25.918	54.870	54.922	2.007	8.390	3.654	22.500
159	7.950	26.082	58.630	58.680	2.131	8.040	3.632	17.500
160	8.000	26.246	59.130	59.178	2.091	7.650	3.533	19.800
161	8.050	26.410	56.880	56.925	1.966	7.220	3.454	23.100
162	8.100	26.574	44.950	44.990	1.849	6.340	4.110	29.700
163	8.150	26.739	34.140	34.174	1.601	5.500	4.685	34.400
164	8.200	26.903	29.370	29.407	1.228	5.950	4.176	36.700
165	8.250	27.067	36.810	36.843	1.021	5.250	2.771	35.300
166	8.300	27.231	38.960	38.987	0.980	4.260	2.514	50.400
167	8.350	27.395	25.520	25.542	0.677	3.600	2.650	52.100
168	8.400	27.559	23.810	23.828	0.675	2.960	2.833	52.300
169	8.450	27.723	19.320	19.335	0.444	2.350	2.296	64.600
170	8.500	27.887	20.150	20.164	0.651	2.290	3.228	58.700
171	8.550	28.051	25.890	25.905	0.697	2.350	2.691	60.500
172	8.600	28.215	29.520	29.533	0.707	2.110	2.394	60.600
173	8.650	28.379	26.570	26.583	0.567	2.030	2.133	73.600
174	8.700	28.543	23.210	23.225	0.501	2.350	2.157	61.700
175	8.750	28.707	20.940	20.955	0.472	2.380	2.252	64.800
176	8.800	28.871	19.130	19.144	0.398	2.270	2.079	65.100
177	8.850	29.035	16.930	16.942	0.348	1.960	2.054	64.600
178	8.900	29.199	13.730	13.743	0.332	2.140	2.416	65.300
179	8.950	29.363	15.310	15.324	0.348	2.320	2.271	61.900
180	9.000	29.527	14.910	14.973	0.388	10.050	2.591	42.100
181	9.050	29.691	11.460	11.539	0.316	12.610	2.739	38.100
182	9.100	29.855	16.580	16.654	0.224	11.800	1.345	38.100
183	9.150	30.019	12.560	12.625	0.538	10.350	4.262	40.800
184	9.200	30.183	11.610	11.660	0.662	7.980	5.678	38.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	49.850	49.872	1.044	3.500	2.093	39.800
186	9.300	30.511	49.950	49.979	1.421	4.650	2.843	41.700
187	9.350	30.675	20.720	20.737	1.351	2.740	6.515	40.200
188	9.400	30.840	16.470	16.485	0.706	2.360	4.283	43.300
189	9.450	31.004	24.550	24.572	0.695	3.470	2.828	34.200
190	9.500	31.168	31.480	31.512	0.641	5.130	2.034	29.300
191	9.550	31.332	27.680	27.704	1.127	3.770	4.068	25.100
192	9.600	31.496	44.160	44.182	0.945	3.490	2.139	26.900
193	9.650	31.660	52.250	52.272	1.556	3.540	2.977	19.500
194	9.700	31.824	58.410	58.434	1.795	3.840	3.072	12.800
195	9.750	31.988	62.310	62.332	3.095	3.450	4.965	20.400
196	9.800	32.152	75.880	75.919	2.937	6.320	3.869	20.300
197	9.850	32.316	94.380	94.412	2.652	5.070	2.809	26.300
198	9.900	32.480	75.270	75.308	2.421	6.100	3.215	29.400
199	9.950	32.644	74.500	74.536	2.089	5.690	2.803	34.300
200	10.000	32.808	55.580	55.613	2.059	5.270	3.702	33.000
201	10.050	32.972	48.210	48.246	1.310	5.730	2.715	47.000
202	10.100	33.136	18.350	18.381	1.016	4.980	5.527	42.400
203	10.150	33.300	36.430	36.458	0.741	4.410	2.033	54.100
204	10.200	33.464	24.690	24.722	0.699	5.200	2.827	55.800
205	10.250	33.628	18.260	18.290	0.671	4.820	3.669	49.100
206	10.300	33.792	20.260	20.296	0.568	5.740	2.799	35.500
207	10.350	33.956	24.260	24.298	0.537	6.130	2.210	22.700
208	10.400	34.120	19.790	19.830	0.418	6.450	2.108	21.100
209	10.450	34.284	18.530	18.561	0.567	4.980	3.055	14.100
210	10.500	34.448	14.560	14.586	0.577	4.140	3.956	15.600
211	10.550	34.612	17.390	17.425	0.748	5.600	4.293	13.300
212	10.600	34.776	22.900	22.939	1.234	6.270	5.379	10.100
213	10.650	34.941	27.650	27.700	1.047	8.050	3.780	13.200
214	10.700	35.105	47.680	47.726	1.433	7.310	3.003	7.700
215	10.750	35.269	44.600	44.642	1.206	6.760	2.701	15.500
216	10.800	35.433	33.800	33.844	1.376	7.090	4.066	16.700
217	10.850	35.597	32.400	32.440	1.371	6.340	4.226	17.600
218	10.900	35.761	35.750	35.791	1.286	6.590	3.593	12.000
219	10.950	35.925	39.180	39.222	1.409	6.800	3.592	15.800
220	11.000	36.089	40.390	40.435	0.917	7.130	2.268	13.300
221	11.050	36.253	52.710	52.758	0.877	7.670	1.662	14.500
222	11.100	36.417	22.160	22.201	0.937	6.520	4.221	12.700
223	11.150	36.581	41.750	41.786	0.955	5.800	2.285	16.800
224	11.200	36.745	43.020	43.065	1.104	7.280	2.564	13.700
225	11.250	36.909	48.370	48.411	1.012	6.640	2.090	20.000
226	11.300	37.073	36.230	36.274	1.272	7.090	3.507	11.500
227	11.350	37.237	43.020	43.062	1.413	6.690	3.281	13.800
228	11.400	37.401	52.230	52.279	1.787	7.800	3.418	10.000
229	11.450	37.565	58.820	58.864	1.730	7.020	2.939	13.200
230	11.500	37.729	58.450	58.490	2.484	6.360	4.247	12.200
231	11.550	37.893	56.190	56.223	2.094	5.300	3.724	13.000
232	11.600	38.057	79.190	79.235	2.197	7.210	2.773	16.200
233	11.650	38.221	57.020	57.067	2.429	7.600	4.256	13.400
234	11.700	38.385	48.810	48.850	2.045	6.330	4.186	19.100
235	11.750	38.549	68.240	68.290	1.399	7.980	2.049	22.100
236	11.800	38.713	67.170	67.217	1.398	7.530	2.080	28.900
237	11.850	38.877	69.210	69.252	1.844	6.780	2.663	29.100
238	11.900	39.042	99.430	99.474	1.556	7.050	1.564	40.300
239	11.950	39.206	131.800	131.837	1.845	5.850	1.399	36.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	98.940	98.967	2.414	4.370	2.439	40.600
241	12.050	39.534	84.270	84.289	2.711	3.000	3.216	34.900
242	12.100	39.698	92.060	92.084	2.825	3.860	3.068	28.600
243	12.150	39.862	119.350	119.375	3.006	4.080	2.518	25.000
244	12.200	40.026	126.570	126.603	4.347	5.210	3.434	21.800
245	12.250	40.190	97.550	97.594	5.050	6.980	5.175	25.600
246	12.300	40.354	98.940	99.022	3.705	13.170	3.742	24.400
247	12.350	40.518	115.510	115.605	3.463	15.290	2.996	27.400
248	12.400	40.682	126.950	127.056	3.203	16.910	2.521	27.200
249	12.450	40.846	123.770	123.845	2.442	12.020	1.972	50.200
250	12.500	41.010	76.700	76.754	2.035	8.700	2.651	61.700
251	12.550	41.174	76.020	76.078	1.859	9.310	2.444	66.900
252	12.600	41.338	78.830	78.886	1.714	9.030	2.173	75.900
253	12.650	41.502	103.480	103.537	1.577	9.190	1.523	75.700
254	12.700	41.666	190.520	190.580	1.982	9.650	1.040	76.500
255	12.750	41.830	206.330	206.390	2.332	9.620	1.130	70.200
256	12.800	41.994	187.600	187.659	2.464	9.460	1.313	72.600
257	12.850	42.158	166.750	166.809	2.380	9.410	1.427	75.300
258	12.900	42.322	142.690	142.748	2.241	9.340	1.570	78.200
259	12.950	42.486	121.690	121.748	1.919	9.320	1.576	73.800
260	13.000	42.650	104.740	104.798	1.613	9.220	1.539	59.500
261	13.050	42.814	92.720	92.777	1.236	9.110	1.332	66.300
262	13.100	42.978	85.320	85.376	1.077	8.950	1.261	67.700
263	13.150	43.143	76.400	76.455	0.951	8.830	1.244	62.000
264	13.200	43.307	65.180	65.234	0.980	8.680	1.502	56.100
265	13.250	43.471	52.520	52.573	0.930	8.520	1.769	49.400
266	13.300	43.635	32.080	32.132	0.858	8.340	2.670	42.200
267	13.350	43.799	43.510	43.562	1.166	8.260	2.677	28.500
268	13.400	43.963	50.950	51.002	1.240	8.310	2.431	23.400
269	13.450	44.127	62.700	62.752	1.330	8.340	2.119	23.700
270	13.500	44.291	87.440	87.492	1.744	8.360	1.993	15.600
271	13.550	44.455	86.890	86.933	2.037	6.920	2.343	20.200
272	13.600	44.619	55.500	55.544	1.827	7.110	3.289	14.200
273	13.650	44.783	48.490	48.545	1.281	8.820	2.639	13.500
274	13.700	44.947	44.540	44.595	0.871	8.820	1.953	14.200
275	13.750	45.111	62.840	62.896	0.772	8.920	1.227	14.400
276	13.800	45.275	53.790	53.838	1.234	7.740	2.292	19.700
277	13.850	45.439	48.210	48.255	1.067	7.170	2.211	19.100
278	13.900	45.603	41.020	41.074	1.371	8.710	3.338	29.400
279	13.950	45.767	96.060	96.119	1.524	9.480	1.586	32.400
280	14.000	45.931	63.220	63.283	1.401	10.110	2.214	43.900
281	14.050	46.095	64.680	64.741	1.448	9.740	2.237	38.600
282	14.100	46.259	50.940	51.002	1.086	9.930	2.129	34.900
283	14.150	46.423	27.280	27.341	1.042	9.810	3.811	39.100
284	14.200	46.587	43.240	43.302	0.916	9.920	2.115	30.200
285	14.250	46.751	37.490	37.544	0.865	8.640	2.304	30.600
286	14.300	46.915	22.080	22.131	0.893	8.170	4.035	31.600
287	14.350	47.079	29.850	29.902	0.844	8.280	2.823	23.600
288	14.400	47.244	35.600	35.654	0.982	8.610	2.754	27.000
289	14.450	47.408	19.230	19.285	0.948	8.780	4.916	16.100
290	14.500	47.572	20.150	20.205	0.759	8.890	3.756	14.600
291	14.550	47.736	33.620	33.673	1.400	8.410	4.158	27.200
292	14.600	47.900	50.910	50.960	1.352	8.050	2.653	24.100
293	14.650	48.064	31.800	31.848	1.113	7.700	3.495	20.100
294	14.700	48.228	28.940	28.984	0.792	7.110	2.733	25.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	33.790	33.832	0.490	6.680	1.448	32.900
296	14.800	48.556	12.800	12.840	0.522	6.410	4.065	40.900
297	14.850	48.720	29.180	29.220	0.479	6.470	1.639	46.200
298	14.900	48.884	22.670	22.711	0.481	6.600	2.118	45.100
299	14.950	49.048	16.850	16.891	0.465	6.500	2.753	41.200
300	15.000	49.212	11.940	11.981	0.434	6.580	3.622	46.000
301	15.050	49.376	12.170	12.212	0.405	6.770	3.316	42.600
302	15.100	49.540	12.150	12.191	0.111	6.620	0.910	39.800
303	15.150	49.704	16.270	16.313	0.152	6.910	0.932	37.600
304	15.200	49.868	10.180	10.221	0.202	6.640	1.976	37.800
305	15.250	50.032	17.800	17.842	0.425	6.730	2.382	35.600
306	15.300	50.196	23.210	23.255	0.344	7.270	1.479	40.600
307	15.350	50.360	33.330	33.377	0.383	7.490	1.148	43.200
308	15.400	50.524	52.420	52.467	0.393	7.490	0.749	56.900
309	15.450	50.688	62.690	62.736	0.434	7.420	0.692	46.000
310	15.500	50.852	73.930	73.976	0.631	7.400	0.853	49.100
311	15.550	51.016	84.040	84.086	0.909	7.380	1.081	52.200
312	15.600	51.180	98.740	98.786	1.087	7.410	1.100	56.500
313	15.650	51.345	139.710	139.756	1.340	7.440	0.959	49.900
314	15.700	51.509	214.530	214.577	1.841	7.560	0.858	48.300
315	15.750	51.673	262.220	262.270	2.681	7.950	1.022	0.000
316	15.800	51.837	288.630	288.681	3.887	8.170	1.346	0.000
317	15.850	52.001	303.030	303.083	4.390	8.500	1.448	0.000
318	15.900	52.165	273.970	274.026	4.908	9.030	1.791	0.000
319	15.950	52.329	279.350	279.409	4.918	9.480	1.760	0.000
320	16.000	52.493	270.970	271.031	4.921	9.800	1.816	0.000
321	16.050	52.657	280.540	280.602	4.848	10.000	1.728	0.000
322	16.100	52.821	274.170	274.234	4.694	10.240	1.712	0.000
323	16.150	52.985	267.090	267.156	4.440	10.500	1.662	0.000
324	16.200	53.149	262.750	262.817	4.356	10.660	1.657	0.000
325	16.250	53.313	255.300	255.367	4.594	10.740	1.799	0.000
326	16.300	53.477	220.970	221.038	4.363	10.910	1.974	0.000
327	16.350	53.641	187.410	187.478	3.687	10.840	1.967	0.000
328	16.400	53.805	193.720	193.788	2.802	10.940	1.446	0.000
329	16.450	53.969	354.350	354.418	0.000	10.920	0.000	0.000
330	16.500	54.133	454.350	454.418	0.000	10.950	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221593
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-12-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	09:53
CPT File:	13-53075_GP12-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722243.739
Northing / Lat:	4294346.180
Elevation:	144.942
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.370	0.371	0.065	0.090	17.541	29.200
2	0.100	0.328	92.720	92.766	0.156	7.330	0.168	27.500
3	0.150	0.492	281.270	281.289	0.148	3.090	0.053	31.900
4	0.200	0.656	289.110	289.127	0.169	2.680	0.058	30.000
5	0.250	0.820	227.510	227.538	0.221	4.430	0.097	38.700
6	0.300	0.984	171.110	171.135	0.272	4.030	0.159	42.700
7	0.350	1.148	117.060	117.060	0.618	-0.060	0.528	63.200
8	0.400	1.312	67.630	67.811	0.654	28.950	0.964	73.900
9	0.450	1.476	31.770	31.813	0.684	6.950	2.150	88.900
10	0.500	1.640	30.200	30.252	0.814	8.280	2.691	91.100
11	0.550	1.804	35.760	35.796	1.030	5.770	2.877	86.500
12	0.600	1.968	39.960	40.013	1.155	8.560	2.887	96.100
13	0.650	2.133	57.250	57.223	1.264	-4.330	2.209	108.100
14	0.700	2.297	60.080	60.062	1.486	-2.900	2.474	99.600
15	0.750	2.461	54.910	54.918	1.754	1.240	3.194	121.300
16	0.800	2.625	55.400	55.393	1.767	-1.050	3.190	108.800
17	0.850	2.789	47.230	47.233	1.729	0.450	3.661	117.800
18	0.900	2.953	42.720	42.719	1.797	-0.240	4.207	104.600
19	0.950	3.117	43.690	43.688	1.625	-0.280	3.720	113.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	42.050	42.047	2.059	-0.540	4.897	118.300
21	1.050	3.445	48.130	48.126	0.981	-0.710	2.038	105.200
22	1.100	3.609	73.960	73.975	1.575	2.380	2.129	121.800
23	1.150	3.773	53.870	53.875	2.047	0.870	3.800	109.300
24	1.200	3.937	46.450	46.461	2.184	1.690	4.701	108.200
25	1.250	4.101	44.670	44.671	1.687	0.240	3.776	124.600
26	1.300	4.265	37.850	37.852	1.680	0.360	4.438	103.000
27	1.350	4.429	38.410	38.406	1.579	-0.670	4.111	114.300
28	1.400	4.593	36.260	36.267	1.455	1.180	4.012	102.600
29	1.450	4.757	42.000	42.004	1.172	0.660	2.790	106.900
30	1.500	4.921	45.300	45.321	1.083	3.350	2.390	107.200
31	1.550	5.085	40.480	40.499	1.132	3.020	2.795	91.600
32	1.600	5.249	39.300	39.317	1.468	2.650	3.734	98.900
33	1.650	5.413	42.270	42.275	1.439	0.810	3.404	81.700
34	1.700	5.577	37.980	37.985	0.919	0.870	2.419	86.700
35	1.750	5.741	50.460	50.455	0.642	-0.860	1.272	82.600
36	1.800	5.905	37.980	37.976	0.735	-0.590	1.935	83.100
37	1.850	6.069	43.690	43.710	0.753	3.130	1.723	84.200
38	1.900	6.234	39.820	39.824	0.948	0.700	2.380	76.700
39	1.950	6.398	41.760	41.767	0.817	1.170	1.956	89.600
40	2.000	6.562	39.050	39.067	0.687	2.790	1.758	88.500
41	2.050	6.726	37.910	37.929	0.843	3.050	2.223	76.100
42	2.100	6.890	37.120	37.125	1.007	0.830	2.712	77.500
43	2.150	7.054	38.300	38.299	0.864	-0.230	2.256	77.300
44	2.200	7.218	36.840	36.840	0.771	-0.030	2.093	80.200
45	2.250	7.382	35.180	35.181	0.741	0.150	2.106	70.200
46	2.300	7.546	28.520	28.535	0.769	2.460	2.695	79.200
47	2.350	7.710	24.380	24.382	0.720	0.290	2.953	84.900
48	2.400	7.874	20.570	20.570	0.652	0.020	3.170	68.700
49	2.450	8.038	20.950	20.951	0.740	0.230	3.532	76.900
50	2.500	8.202	21.070	21.070	0.741	-0.030	3.517	74.300
51	2.550	8.366	16.800	16.805	0.799	0.880	4.754	71.400
52	2.600	8.530	17.420	17.422	1.330	0.320	7.634	66.000
53	2.650	8.694	53.650	53.656	1.079	1.040	2.011	69.600
54	2.700	8.858	14.480	14.483	1.128	0.420	7.789	60.400
55	2.750	9.022	13.160	13.160	1.345	-0.020	10.220	73.700
56	2.800	9.186	8.470	8.483	0.317	2.100	3.737	74.100
57	2.850	9.350	6.580	6.609	0.261	4.710	3.949	87.400
58	2.900	9.514	9.990	10.036	0.352	7.310	3.508	86.800
59	2.950	9.678	18.790	18.840	0.597	8.020	3.169	81.900
60	3.000	9.842	34.000	34.066	0.883	10.610	2.592	98.900
61	3.050	10.006	51.260	51.351	0.861	14.510	1.677	87.100
62	3.100	10.170	49.030	49.048	1.020	2.860	2.080	92.200
63	3.150	10.335	46.300	46.282	1.086	-2.810	2.346	92.800
64	3.200	10.499	53.940	53.932	0.996	-1.290	1.847	85.800
65	3.250	10.663	45.730	45.730	0.727	0.040	1.590	84.100
66	3.300	10.827	42.300	42.299	0.550	-0.110	1.300	73.700
67	3.350	10.991	32.230	32.224	0.353	-0.900	1.095	64.900
68	3.400	11.155	21.070	21.061	0.301	-1.380	1.429	50.900
69	3.450	11.319	16.250	16.243	0.293	-1.180	1.804	37.300
70	3.500	11.483	17.280	17.281	0.246	0.180	1.424	38.500
71	3.550	11.647	47.110	47.119	0.356	1.480	0.756	34.500
72	3.600	11.811	58.770	58.764	0.377	-1.020	0.642	38.400
73	3.650	11.975	17.340	17.338	0.405	-0.310	2.336	30.300
74	3.700	12.139	13.490	13.494	0.383	0.660	2.838	34.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	26.820	26.856	0.470	5.820	1.750	37.700
76	3.800	12.467	22.200	22.234	0.471	5.460	2.118	45.000
77	3.850	12.631	9.450	9.480	0.430	4.820	4.536	58.400
78	3.900	12.795	12.840	12.844	0.309	0.660	2.406	62.700
79	3.950	12.959	13.960	13.971	0.282	1.730	2.018	69.500
80	4.000	13.123	13.690	13.710	0.270	3.180	1.969	86.900
81	4.050	13.287	21.380	21.429	0.318	7.860	1.484	81.700
82	4.100	13.451	18.610	18.589	0.363	-3.380	1.953	77.200
83	4.150	13.615	11.250	11.210	0.461	-6.470	4.113	81.600
84	4.200	13.779	10.440	10.441	0.235	0.150	2.251	71.700
85	4.250	13.943	26.510	26.500	0.194	-1.620	0.732	55.700
86	4.300	14.107	40.590	40.593	0.270	0.540	0.665	63.500
87	4.350	14.271	27.770	27.779	0.409	1.480	1.472	69.900
88	4.400	14.436	12.770	12.775	0.465	0.860	3.640	76.500
89	4.450	14.600	24.500	24.522	0.778	3.560	3.173	74.100
90	4.500	14.764	38.180	38.119	0.654	-9.730	1.716	54.200
91	4.550	14.928	18.980	18.967	0.913	-2.010	4.814	42.200
92	4.600	15.092	17.830	17.824	0.375	-0.920	2.104	28.800
93	4.650	15.256	71.710	71.718	0.637	1.340	0.888	33.200
94	4.700	15.420	74.640	74.653	1.162	2.080	1.557	23.800
95	4.750	15.584	78.550	78.555	1.036	0.820	1.319	20.200
96	4.800	15.748	42.880	42.886	1.087	0.890	2.535	17.400
97	4.850	15.912	33.720	33.726	0.941	0.950	2.790	18.100
98	4.900	16.076	20.610	20.631	0.556	3.390	2.695	25.400
99	4.950	16.240	41.280	41.285	0.861	0.740	2.086	26.300
100	5.000	16.404	69.930	69.935	0.840	0.880	1.201	29.500
101	5.050	16.568	19.900	19.933	0.563	5.260	2.824	37.500
102	5.100	16.732	95.890	95.960	0.729	11.180	0.760	36.100
103	5.150	16.896	138.190	138.176	0.671	-2.220	0.486	40.000
104	5.200	17.060	83.880	83.817	0.820	-10.060	0.978	33.200
105	5.250	17.224	57.440	57.379	0.795	-9.710	1.386	54.300
106	5.300	17.388	30.680	30.627	0.778	-8.420	2.540	60.500
107	5.350	17.552	28.090	28.061	0.775	-4.620	2.762	64.000
108	5.400	17.716	17.200	17.182	0.562	-2.840	3.271	87.900
109	5.450	17.880	22.350	22.369	0.558	3.110	2.494	92.600
110	5.500	18.044	53.810	53.847	0.519	5.900	0.964	75.500
111	5.550	18.208	64.220	64.221	1.001	0.200	1.559	92.200
112	5.600	18.372	73.930	73.927	1.020	-0.560	1.380	81.000
113	5.650	18.537	66.500	66.476	1.612	-3.770	2.425	88.900
114	5.700	18.701	62.140	62.064	1.387	-12.250	2.235	89.600
115	5.750	18.865	48.800	48.806	1.284	0.980	2.631	89.900
116	5.800	19.029	39.990	39.965	0.832	-4.060	2.082	90.200
117	5.850	19.193	34.260	34.254	0.579	-1.000	1.690	89.100
118	5.900	19.357	25.330	25.381	0.889	8.090	3.503	77.600
119	5.950	19.521	20.480	20.463	0.930	-2.690	4.545	79.600
120	6.000	19.685	19.180	19.163	0.986	-2.730	5.145	81.100
121	6.050	19.849	42.920	42.904	0.816	-2.580	1.902	80.600
122	6.100	20.013	52.590	52.603	0.856	2.120	1.627	77.000
123	6.150	20.177	88.890	88.901	0.935	1.710	1.052	78.500
124	6.200	20.341	69.970	69.979	0.845	1.440	1.208	72.900
125	6.250	20.505	38.440	38.420	0.751	-3.220	1.955	69.600
126	6.300	20.669	24.050	24.018	0.457	-5.070	1.903	55.500
127	6.350	20.833	14.410	14.375	0.328	-5.560	2.282	60.600
128	6.400	20.997	9.110	9.106	0.118	-0.710	1.296	45.600
129	6.450	21.161	12.760	12.766	0.559	0.900	4.379	35.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	71.160	71.171	0.915	1.840	1.286	23.500
131	6.550	21.489	53.080	53.092	1.393	1.890	2.624	15.700
132	6.600	21.653	37.550	37.554	1.408	0.680	3.749	13.900
133	6.650	21.817	32.620	32.624	0.823	0.600	2.523	14.100
134	6.700	21.981	15.110	15.119	0.741	1.420	4.901	13.800
135	6.750	22.145	34.600	34.627	0.856	4.390	2.472	12.300
136	6.800	22.309	26.740	26.752	0.811	1.990	3.032	13.200
137	6.850	22.473	42.740	42.766	1.054	4.170	2.465	11.400
138	6.900	22.638	62.130	62.167	1.348	5.920	2.168	15.400
139	6.950	22.802	73.340	73.361	1.419	3.400	1.934	9.100
140	7.000	22.966	27.600	27.620	1.337	3.200	4.841	9.100
141	7.050	23.130	50.870	50.892	0.323	3.570	0.635	14.000
142	7.100	23.294	29.530	29.622	0.541	14.810	1.826	9.200
143	7.150	23.458	53.630	53.680	0.710	7.930	1.323	15.900
144	7.200	23.622	42.340	42.369	0.784	4.720	1.850	14.400
145	7.250	23.786	21.990	22.009	0.608	3.040	2.763	18.300
146	7.300	23.950	19.690	19.722	0.561	5.100	2.845	24.100
147	7.350	24.114	32.090	32.106	0.567	2.580	1.766	34.100
148	7.400	24.278	14.350	14.369	0.403	2.970	2.805	44.500
149	7.450	24.442	32.060	32.181	1.001	19.380	3.111	48.900
150	7.500	24.606	52.850	52.835	0.651	-2.390	1.232	38.800
151	7.550	24.770	52.640	52.663	0.864	3.620	1.641	25.400
152	7.600	24.934	45.960	46.000	0.835	6.340	1.815	30.600
153	7.650	25.098	20.060	20.154	0.710	15.040	3.523	20.600
154	7.700	25.262	8.550	8.599	0.626	7.830	7.280	17.400
155	7.750	25.426	13.510	13.581	0.595	11.340	4.381	9.400
156	7.800	25.590	26.950	27.044	0.498	15.050	1.841	15.600
157	7.850	25.754	16.440	16.613	0.543	27.700	3.269	18.000
158	7.900	25.918	15.780	16.061	0.450	45.000	2.802	10.200
159	7.950	26.082	20.360	20.453	0.379	14.820	1.853	13.700
160	8.000	26.246	20.540	20.591	0.441	8.180	2.142	14.000
161	8.050	26.410	15.480	15.515	0.468	5.530	3.017	13.900
162	8.100	26.574	13.440	13.489	0.495	7.770	3.670	11.300
163	8.150	26.739	16.270	16.322	0.593	8.270	3.633	15.200
164	8.200	26.903	21.590	21.661	0.606	11.410	2.798	12.700
165	8.250	27.067	17.890	17.998	0.693	17.240	3.851	14.100
166	8.300	27.231	15.910	15.951	0.607	6.640	3.805	11.500
167	8.350	27.395	24.410	24.467	0.566	9.170	2.313	16.000
168	8.400	27.559	20.140	20.168	0.543	4.560	2.692	12.900
169	8.450	27.723	22.360	22.424	0.581	10.190	2.591	13.500
170	8.500	27.887	19.310	19.359	0.526	7.870	2.717	13.900
171	8.550	28.051	13.890	13.947	0.639	9.170	4.582	15.900
172	8.600	28.215	19.910	19.946	0.715	5.710	3.585	18.400
173	8.650	28.379	16.890	16.959	0.779	11.000	4.594	25.100
174	8.700	28.543	16.740	16.838	0.868	15.680	5.155	21.400
175	8.750	28.707	17.110	17.172	0.727	9.960	4.234	23.000
176	8.800	28.871	25.270	25.401	0.661	20.980	2.602	24.700
177	8.850	29.035	31.540	31.601	0.693	9.760	2.193	21.000
178	8.900	29.199	31.830	31.871	0.599	6.560	1.879	23.600
179	8.950	29.363	32.510	32.595	1.021	13.620	3.132	33.300
180	9.000	29.527	37.280	37.324	0.489	6.970	1.310	37.100
181	9.050	29.691	40.620	40.777	0.348	25.180	0.853	28.300
182	9.100	29.855	132.720	132.792	0.700	11.610	0.527	32.200
183	9.150	30.019	206.470	206.518	0.805	7.680	0.390	25.800
184	9.200	30.183	152.320	152.406	0.958	13.840	0.629	16.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	101.300	101.349	1.068	7.850	1.054	21.500
186	9.300	30.511	64.940	64.984	0.784	7.120	1.206	20.500
187	9.350	30.675	48.190	48.276	0.711	13.790	1.473	25.400
188	9.400	30.840	33.270	33.324	0.838	8.590	2.515	22.300
189	9.450	31.004	23.990	24.083	0.680	14.840	2.824	21.500
190	9.500	31.168	29.420	29.480	0.693	9.660	2.351	21.900
191	9.550	31.332	25.590	25.679	0.724	14.290	2.819	23.200
192	9.600	31.496	37.730	37.802	0.869	11.490	2.299	30.500
193	9.650	31.660	33.190	33.322	1.183	21.110	3.550	28.500
194	9.700	31.824	50.260	50.378	1.367	18.880	2.713	28.300
195	9.750	31.988	27.540	27.705	1.314	26.480	4.743	35.500
196	9.800	32.152	41.580	41.943	1.093	58.070	2.606	48.500
197	9.850	32.316	34.030	34.176	0.999	23.340	2.923	63.500
198	9.900	32.480	18.610	18.703	0.845	14.900	4.518	93.500
199	9.950	32.644	19.950	20.127	0.619	28.320	3.076	110.300
200	10.000	32.808	19.800	19.972	0.638	27.600	3.194	121.400
201	10.050	32.972	29.130	29.135	0.287	0.840	0.985	116.300
202	10.100	33.136	37.000	36.965	0.891	-5.620	2.410	84.600
203	10.150	33.300	48.820	48.789	0.975	-4.890	1.998	80.300
204	10.200	33.464	15.770	15.790	0.930	3.190	5.890	64.600
205	10.250	33.628	13.440	13.472	1.178	5.130	8.744	63.800
206	10.300	33.792	32.540	32.552	0.592	1.970	1.819	60.000
207	10.350	33.956	14.940	14.970	0.694	4.880	4.636	66.600
208	10.400	34.120	16.930	16.981	0.955	8.180	5.624	62.300
209	10.450	34.284	46.730	46.768	1.222	6.060	2.613	50.500
210	10.500	34.448	128.970	128.958	1.383	-1.960	1.072	53.200
211	10.550	34.612	179.600	179.602	2.091	0.320	1.164	51.000
212	10.600	34.776	185.750	185.772	2.355	3.570	1.268	46.400
213	10.650	34.941	176.950	177.000	3.183	8.040	1.798	54.200
214	10.700	35.105	162.820	162.835	3.303	2.400	2.028	66.000
215	10.750	35.269	121.070	121.079	2.730	1.500	2.255	74.000
216	10.800	35.433	96.770	96.767	2.698	-0.540	2.788	76.700
217	10.850	35.597	74.840	74.857	1.863	2.670	2.489	76.600
218	10.900	35.761	44.740	44.755	1.396	2.460	3.119	65.600
219	10.950	35.925	30.140	30.161	1.156	3.290	3.833	63.100
220	11.000	36.089	20.610	20.619	0.786	1.480	3.812	56.500
221	11.050	36.253	16.800	16.797	0.548	-0.550	3.263	41.400
222	11.100	36.417	13.600	13.619	0.416	3.100	3.054	26.700
223	11.150	36.581	11.870	11.891	0.459	3.330	3.860	25.800
224	11.200	36.745	19.000	19.015	1.389	2.390	7.305	17.100
225	11.250	36.909	38.920	38.916	2.107	-0.720	5.414	19.200
226	11.300	37.073	149.580	149.623	1.391	6.860	0.930	15.400
227	11.350	37.237	144.290	144.370	0.151	12.850	0.105	13.000
228	11.400	37.401	93.400	93.528	1.068	20.480	1.142	11.700
229	11.450	37.565	100.360	100.388	1.077	4.440	1.073	9.600
230	11.500	37.729	61.230	61.258	1.629	4.500	2.659	12.900
231	11.550	37.893	58.260	58.292	1.656	5.170	2.841	11.100
232	11.600	38.057	44.220	44.292	1.617	11.520	3.651	8.700
233	11.650	38.221	68.500	68.569	1.315	10.990	1.918	17.100
234	11.700	38.385	97.910	97.975	1.679	10.380	1.714	16.400
235	11.750	38.549	84.590	84.605	1.904	2.350	2.250	17.900
236	11.800	38.713	54.580	54.619	1.464	6.230	2.680	24.000
237	11.850	38.877	61.340	61.390	1.533	8.060	2.497	23.000
238	11.900	39.042	71.270	71.298	1.539	4.480	2.159	30.900
239	11.950	39.206	49.970	50.012	1.240	6.780	2.479	31.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	54.640	54.678	1.588	6.150	2.904	37.000
241	12.050	39.534	46.050	46.066	1.590	2.570	3.452	38.700
242	12.100	39.698	95.460	95.479	2.191	3.020	2.295	49.600
243	12.150	39.862	70.990	71.029	1.869	6.170	2.631	51.000
244	12.200	40.026	57.230	57.251	1.587	3.340	2.772	60.000
245	12.250	40.190	49.890	49.911	0.892	3.370	1.787	49.500
246	12.300	40.354	41.210	41.235	1.027	3.980	2.491	45.800
247	12.350	40.518	48.730	48.761	1.224	4.940	2.510	40.800
248	12.400	40.682	47.600	47.655	1.725	8.760	3.620	36.200
249	12.450	40.846	55.970	56.015	2.123	7.270	3.790	26.500
250	12.500	41.010	42.080	42.225	2.094	23.210	4.959	28.400
251	12.550	41.174	56.760	57.030	2.018	43.320	3.538	31.200
252	12.600	41.338	49.590	49.780	1.961	30.490	3.939	21.000
253	12.650	41.502	50.300	50.630	2.455	52.910	4.849	31.000
254	12.700	41.666	63.190	63.313	2.973	19.770	4.696	24.400
255	12.750	41.830	82.410	82.764	3.618	56.660	4.371	23.000
256	12.800	41.994	96.380	96.480	3.627	16.040	3.759	26.200
257	12.850	42.158	190.450	190.531	3.408	13.000	1.789	26.800
258	12.900	42.322	235.720	235.878	4.764	25.320	2.020	33.300
259	12.950	42.486	214.670	214.765	5.379	15.220	2.505	39.800
260	13.000	42.650	94.140	94.190	4.702	8.060	4.992	52.200
261	13.050	42.814	51.410	52.386	3.179	156.330	6.068	54.100
262	13.100	42.978	46.100	46.393	2.205	46.980	4.753	63.400
263	13.150	43.143	72.960	73.308	1.500	55.820	2.046	63.400
264	13.200	43.307	78.200	78.300	1.348	16.000	1.722	75.100
265	13.250	43.471	89.980	90.048	1.385	10.830	1.538	78.500
266	13.300	43.635	72.660	72.750	1.360	14.380	1.869	93.200
267	13.350	43.799	60.340	60.469	1.331	20.640	2.201	90.800
268	13.400	43.963	58.080	58.359	1.289	44.640	2.209	83.000
269	13.450	44.127	47.120	47.242	1.301	19.480	2.754	87.200
270	13.500	44.291	36.390	36.611	1.065	35.440	2.909	92.300
271	13.550	44.455	36.370	37.039	1.217	107.230	3.286	78.000
272	13.600	44.619	49.990	50.871	1.245	141.130	2.447	60.400
273	13.650	44.783	56.730	57.802	1.369	171.680	2.368	64.600
274	13.700	44.947	57.180	57.936	1.619	121.120	2.794	70.000
275	13.750	45.111	51.560	51.894	1.700	53.540	3.276	61.900
276	13.800	45.275	55.440	55.542	1.601	16.300	2.883	74.100
277	13.850	45.439	51.710	51.781	1.403	11.410	2.709	80.900
278	13.900	45.603	50.700	50.736	1.259	5.800	2.481	83.800
279	13.950	45.767	39.220	39.269	0.637	7.860	1.622	82.000
280	14.000	45.931	85.760	86.111	0.765	56.220	0.888	83.500
281	14.050	46.095	65.630	65.659	1.268	4.700	1.931	78.500
282	14.100	46.259	51.610	51.643	1.092	5.350	2.115	71.500
283	14.150	46.423	55.390	55.471	0.992	13.050	1.788	67.900
284	14.200	46.587	68.190	68.255	0.862	10.420	1.263	63.800
285	14.250	46.751	86.670	86.716	0.666	7.370	0.768	63.100
286	14.300	46.915	104.520	104.566	0.566	7.420	0.541	70.400
287	14.350	47.079	106.090	106.132	0.511	6.710	0.481	64.500
288	14.400	47.244	102.820	102.860	0.577	6.330	0.561	62.700
289	14.450	47.408	106.770	106.809	0.667	6.300	0.624	68.900
290	14.500	47.572	114.400	114.443	0.675	6.850	0.590	65.000
291	14.550	47.736	114.340	114.379	0.751	6.280	0.657	67.800
292	14.600	47.900	109.950	109.982	0.823	5.070	0.748	68.300
293	14.650	48.064	114.500	114.530	0.853	4.860	0.745	69.000
294	14.700	48.228	117.190	117.224	0.865	5.470	0.738	74.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	116.060	116.095	0.796	5.620	0.686	59.700
296	14.800	48.556	110.390	110.420	0.707	4.810	0.640	65.400
297	14.850	48.720	99.760	99.788	0.634	4.440	0.635	67.800
298	14.900	48.884	90.660	90.684	0.586	3.770	0.646	70.800
299	14.950	49.048	90.730	90.755	0.636	4.080	0.701	78.900
300	15.000	49.212	101.000	101.031	0.667	4.980	0.660	61.700
301	15.050	49.376	105.130	105.164	0.659	5.390	0.627	64.200
302	15.100	49.540	109.240	109.271	0.600	5.010	0.549	70.600
303	15.150	49.704	108.370	108.398	0.560	4.490	0.517	57.600
304	15.200	49.868	100.900	100.924	0.523	3.800	0.518	59.100
305	15.250	50.032	93.830	93.850	0.527	3.180	0.562	67.000
306	15.300	50.196	90.360	90.379	0.575	3.100	0.636	70.500
307	15.350	50.360	98.620	98.643	0.619	3.750	0.628	64.100
308	15.400	50.524	110.880	110.909	0.633	4.640	0.571	66.500
309	15.450	50.688	113.380	113.408	0.601	4.540	0.530	67.900
310	15.500	50.852	113.270	113.293	0.567	3.760	0.500	66.800
311	15.550	51.016	114.320	114.341	0.627	3.320	0.548	78.200
312	15.600	51.180	110.530	110.555	0.660	3.950	0.597	72.400
313	15.650	51.345	108.610	108.633	0.667	3.660	0.614	73.500
314	15.700	51.509	108.530	108.551	0.687	3.440	0.633	80.100
315	15.750	51.673	112.250	112.271	0.695	3.330	0.619	73.800
316	15.800	51.837	114.150	114.170	0.616	3.250	0.540	74.900
317	15.850	52.001	109.830	109.848	0.675	2.950	0.614	81.900
318	15.900	52.165	102.560	102.576	0.761	2.560	0.742	72.800
319	15.950	52.329	107.090	107.107	0.959	2.700	0.895	68.200
320	16.000	52.493	136.800	136.823	1.081	3.660	0.790	71.100
321	16.050	52.657	150.140	150.163	0.995	3.760	0.663	62.200
322	16.100	52.821	167.190	167.213	0.867	3.740	0.518	57.600
323	16.150	52.985	169.470	169.494	0.798	3.780	0.471	0.000
324	16.200	53.149	171.570	171.596	0.940	4.090	0.548	0.000
325	16.250	53.313	176.640	176.668	1.086	4.550	0.615	0.000
326	16.300	53.477	189.280	189.310	1.172	4.870	0.619	0.000
327	16.350	53.641	217.860	217.896	1.365	5.750	0.626	0.000
328	16.400	53.805	238.010	238.050	1.571	6.430	0.660	0.000
329	16.450	53.969	227.270	227.315	1.665	7.140	0.732	0.000
330	16.500	54.133	234.330	234.381	1.525	8.200	0.651	0.000
331	16.550	54.297	256.240	256.300	1.463	9.590	0.571	0.000
332	16.600	54.461	224.650	224.711	1.589	9.850	0.707	0.000
333	16.650	54.625	239.030	239.081	1.666	8.150	0.697	0.000
334	16.700	54.789	259.870	259.929	1.623	9.430	0.624	0.000
335	16.750	54.953	308.670	308.742	1.695	11.490	0.549	0.000
336	16.800	55.117	294.040	294.122	1.988	13.120	0.676	0.000
337	16.850	55.281	257.020	257.098	0.000	12.530	0.000	0.000
338	16.900	55.446	240.480	240.565	0.000	13.650	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221595
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-12-4
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	09:53
CPT File:	13-53075_GP12-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722247.349
Northing / Lat:	4294334.472
Elevation:	145.097
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.230	1.231	0.002	0.180	0.162	31.600
2	0.100	0.328	22.660	22.682	0.007	3.550	0.031	37.100
3	0.150	0.492	34.690	34.704	0.058	2.230	0.167	46.200
4	0.200	0.656	37.900	37.921	0.143	3.400	0.377	48.800
5	0.250	0.820	54.530	54.540	0.464	1.590	0.851	63.900
6	0.300	0.984	32.490	32.563	0.968	11.630	2.973	63.200
7	0.350	1.148	383.050	383.091	1.102	6.530	0.288	71.700
8	0.400	1.312	197.870	197.888	2.196	2.920	1.110	63.100
9	0.450	1.476	90.110	90.107	1.688	-0.510	1.873	75.900
10	0.500	1.640	27.230	27.239	1.521	1.430	5.584	85.000
11	0.550	1.804	45.210	45.234	2.083	3.820	4.605	75.900
12	0.600	1.968	77.920	77.985	1.755	10.440	2.250	78.200
13	0.650	2.133	175.180	175.296	1.346	18.660	0.768	79.300
14	0.700	2.297	204.150	204.167	1.234	2.680	0.604	68.600
15	0.750	2.461	151.610	151.610	1.298	0.060	0.856	66.700
16	0.800	2.625	117.440	117.443	1.712	0.520	1.458	65.800
17	0.850	2.789	98.120	98.222	1.953	16.310	1.988	67.900
18	0.900	2.953	98.250	98.367	2.305	18.710	2.343	70.700
19	0.950	3.117	117.990	118.058	2.353	10.850	1.993	71.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	157.100	157.117	2.063	2.720	1.313	70.300
21	1.050	3.445	154.500	154.532	2.724	5.200	1.763	64.500
22	1.100	3.609	148.520	148.587	2.590	10.680	1.743	66.100
23	1.150	3.773	130.740	130.752	1.466	1.920	1.121	52.600
24	1.200	3.937	92.640	92.677	0.361	5.900	0.390	67.000
25	1.250	4.101	92.330	92.351	1.205	3.430	1.305	70.200
26	1.300	4.265	72.330	72.334	0.794	0.690	1.098	52.200
27	1.350	4.429	110.070	110.071	0.711	0.100	0.646	78.800
28	1.400	4.593	61.220	61.215	1.816	-0.740	2.967	50.900
29	1.450	4.757	44.450	44.447	1.767	-0.470	3.976	46.100
30	1.500	4.921	93.380	93.380	0.867	-0.010	0.928	61.500
31	1.550	5.085	66.480	66.488	1.757	1.320	2.643	22.300
32	1.600	5.249	67.700	67.704	1.535	0.700	2.267	31.300
33	1.650	5.413	83.870	83.869	1.176	-0.130	1.402	71.600
34	1.700	5.577	58.010	58.012	2.886	0.260	4.975	69.200
35	1.750	5.741	58.180	58.175	2.725	-0.860	4.684	78.700
36	1.800	5.905	94.110	94.124	2.502	2.260	2.658	30.900
37	1.850	6.069	226.960	226.958	2.495	-0.400	1.099	61.400
38	1.900	6.234	229.920	229.919	2.495	-0.200	1.085	9.300
39	1.950	6.398	235.000	235.001	3.050	0.170	1.298	7.400
40	2.000	6.562	235.000	235.001	3.812	0.170	1.622	13.500
41	2.050	6.726	297.300	297.311	2.782	1.790	0.936	9.100
42	2.100	6.890	297.150	297.152	0.793	0.290	0.267	17.500
43	2.150	7.054	257.940	257.943	0.063	0.560	0.024	12.500
44	2.200	7.218	86.170	86.191	8.454	3.370	9.808	6.700
45	2.250	7.382	76.750	76.760	3.084	1.610	4.018	8.200
46	2.300	7.546	309.810	309.810	0.918	0.020	0.296	4.200
47	2.350	7.710	42.880	42.874	0.595	-0.940	1.388	8.000
48	2.400	7.874	6.890	6.885	1.988	-0.820	28.875	4.400
49	2.450	8.038	28.830	28.841	2.859	1.700	9.913	5.000
50	2.500	8.202	119.420	119.415	2.473	-0.750	2.071	66.100
51	2.550	8.366	155.310	155.297	1.683	-2.120	1.084	76.200
52	2.600	8.530	227.320	227.319	2.133	-0.130	0.938	77.200
53	2.650	8.694	72.210	72.207	3.274	-0.550	4.534	81.500
54	2.700	8.858	63.940	63.940	3.045	0.070	4.762	81.100
55	2.750	9.022	50.910	50.924	1.268	2.200	2.490	86.400
56	2.800	9.186	145.010	145.007	0.611	-0.560	0.421	99.600
57	2.850	9.350	145.710	145.714	0.152	0.650	0.104	91.100
58	2.900	9.514	142.390	142.388	2.328	-0.370	1.635	82.000
59	2.950	9.678	124.370	124.367	2.451	-0.430	1.971	86.100
60	3.000	9.842	54.950	54.950	2.748	0.060	5.001	98.300
61	3.050	10.006	52.460	52.457	2.726	-0.470	5.197	83.300
62	3.100	10.170	13.940	13.938	0.771	-0.390	5.532	96.900
63	3.150	10.335	14.440	14.448	0.860	1.240	5.952	94.000
64	3.200	10.499	10.840	10.839	0.817	-0.090	7.537	98.800
65	3.250	10.663	11.990	11.980	0.831	-1.660	6.937	101.400
66	3.300	10.827	14.940	14.896	0.838	-7.030	5.626	91.600
67	3.350	10.991	14.050	13.986	0.889	-10.210	6.356	97.100
68	3.400	11.155	12.780	12.708	0.742	-11.510	5.839	83.300
69	3.450	11.319	9.140	9.082	0.561	-9.260	6.177	90.000
70	3.500	11.483	11.000	10.951	0.497	-7.780	4.538	88.100
71	3.550	11.647	16.640	16.599	0.636	-6.580	3.832	86.200
72	3.600	11.811	20.020	19.987	0.766	-5.360	3.833	77.300
73	3.650	11.975	20.400	20.376	0.803	-3.800	3.941	81.800
74	3.700	12.139	26.150	26.112	0.812	-6.090	3.110	81.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	32.290	32.223	0.773	-10.670	2.399	84.900
76	3.800	12.467	26.520	26.459	0.776	-9.720	2.933	86.600
77	3.850	12.631	23.340	23.280	0.815	-9.540	3.501	97.700
78	3.900	12.795	26.380	26.341	0.906	-6.230	3.439	93.100
79	3.950	12.959	41.350	41.345	1.201	-0.760	2.905	101.200
80	4.000	13.123	55.020	55.025	1.367	0.810	2.484	93.400
81	4.050	13.287	59.640	59.659	1.420	3.110	2.380	90.600
82	4.100	13.451	64.350	64.314	1.350	-5.690	2.099	90.900
83	4.150	13.615	59.240	59.175	1.363	-10.350	2.303	67.600
84	4.200	13.779	48.090	48.010	1.028	-12.800	2.141	60.900
85	4.250	13.943	40.870	40.788	0.695	-13.210	1.704	48.300
86	4.300	14.107	25.420	25.426	0.357	0.920	1.404	35.500
87	4.350	14.271	15.930	15.935	0.199	0.880	1.249	31.400
88	4.400	14.436	12.990	12.998	0.087	1.300	0.669	30.400
89	4.450	14.600	10.040	10.057	0.067	2.750	0.666	32.200
90	4.500	14.764	25.850	25.861	0.130	1.760	0.503	34.700
91	4.550	14.928	73.440	73.445	0.520	0.870	0.708	37.800
92	4.600	15.092	145.020	145.027	0.864	1.120	0.596	29.000
93	4.650	15.256	28.460	28.505	0.812	7.130	2.849	16.600
94	4.700	15.420	19.100	19.130	0.662	4.800	3.461	17.200
95	4.750	15.584	29.730	29.759	1.192	4.680	4.005	15.300
96	4.800	15.748	53.240	53.316	1.858	12.200	3.485	20.700
97	4.850	15.912	99.770	99.842	1.254	11.530	1.256	14.400
98	4.900	16.076	96.050	96.125	0.677	11.960	0.704	20.200
99	4.950	16.240	93.580	93.605	0.546	4.030	0.583	28.000
100	5.000	16.404	96.680	96.706	0.578	4.220	0.598	22.800
101	5.050	16.568	76.590	76.591	1.033	0.100	1.349	29.900
102	5.100	16.732	44.150	44.175	1.219	4.070	2.759	31.100
103	5.150	16.896	24.950	24.962	0.802	1.970	3.213	43.600
104	5.200	17.060	29.560	29.577	0.662	2.660	2.238	58.900
105	5.250	17.224	37.120	37.120	0.531	-0.010	1.430	72.000
106	5.300	17.388	39.090	39.137	0.526	7.550	1.344	74.300
107	5.350	17.552	49.170	49.134	0.584	-5.810	1.189	79.200
108	5.400	17.716	39.290	39.216	0.499	-11.830	1.272	68.800
109	5.450	17.880	30.470	30.396	0.574	-11.870	1.888	69.000
110	5.500	18.044	31.000	30.950	0.632	-7.930	2.042	67.300
111	5.550	18.208	26.480	26.470	0.615	-1.630	2.323	75.200
112	5.600	18.372	34.790	34.761	0.599	-4.640	1.723	73.300
113	5.650	18.537	32.510	32.522	0.495	1.880	1.522	71.500
114	5.700	18.701	22.200	22.197	0.495	-0.490	2.230	79.700
115	5.750	18.865	34.120	34.148	0.389	4.430	1.139	70.300
116	5.800	19.029	38.570	38.556	0.423	-2.210	1.097	72.600
117	5.850	19.193	28.620	28.574	0.435	-7.440	1.522	56.500
118	5.900	19.357	17.640	17.602	0.378	-6.080	2.147	43.900
119	5.950	19.521	25.240	25.250	0.389	1.550	1.541	42.900
120	6.000	19.685	26.820	26.839	0.305	3.090	1.136	33.000
121	6.050	19.849	18.380	18.397	0.417	2.730	2.267	31.700
122	6.100	20.013	18.160	18.162	0.475	0.370	2.615	32.700
123	6.150	20.177	18.300	18.326	0.352	4.150	1.921	28.900
124	6.200	20.341	16.770	16.788	0.425	2.930	2.532	26.400
125	6.250	20.505	17.280	17.288	0.297	1.330	1.718	31.100
126	6.300	20.669	32.930	32.954	0.297	3.830	0.901	22.700
127	6.350	20.833	12.060	12.086	0.319	4.220	2.639	19.900
128	6.400	20.997	19.710	19.730	0.334	3.260	1.693	27.600
129	6.450	21.161	17.110	17.139	0.384	4.670	2.240	31.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	14.200	14.227	0.511	4.320	3.592	30.900
131	6.550	21.489	17.070	17.122	0.408	8.270	2.383	30.800
132	6.600	21.653	22.640	22.676	0.331	5.800	1.460	51.000
133	6.650	21.817	27.140	27.155	0.506	2.420	1.863	56.900
134	6.700	21.981	26.260	26.277	0.513	2.800	1.952	77.800
135	6.750	22.145	27.720	27.750	0.460	4.730	1.658	68.200
136	6.800	22.309	39.420	39.446	0.354	4.240	0.897	77.900
137	6.850	22.473	49.870	49.888	0.376	2.920	0.754	72.400
138	6.900	22.638	26.320	26.305	0.295	-2.480	1.121	69.000
139	6.950	22.802	12.450	12.444	0.229	-0.940	1.840	48.000
140	7.000	22.966	10.950	10.944	0.130	-0.900	1.188	38.600
141	7.050	23.130	19.910	19.922	0.276	1.910	1.385	34.600
142	7.100	23.294	19.150	19.167	0.191	2.700	0.997	29.100
143	7.150	23.458	12.760	12.806	0.472	7.370	3.686	22.000
144	7.200	23.622	69.470	69.498	1.400	4.430	2.014	16.800
145	7.250	23.786	77.880	77.909	1.273	4.660	1.634	13.100
146	7.300	23.950	99.370	99.407	1.529	5.930	1.538	15.000
147	7.350	24.114	158.060	158.138	1.847	12.460	1.168	10.400
148	7.400	24.278	127.830	127.861	2.400	4.900	1.877	13.800
149	7.450	24.442	88.920	89.007	2.458	13.900	2.762	12.200
150	7.500	24.606	59.470	59.491	2.284	3.340	3.839	8.800
151	7.550	24.770	89.390	89.409	1.454	2.970	1.626	11.500
152	7.600	24.934	89.430	89.469	1.014	6.320	1.133	12.100
153	7.650	25.098	103.640	103.702	0.350	9.940	0.338	13.300
154	7.700	25.262	127.850	127.900	0.334	7.970	0.261	12.600
155	7.750	25.426	116.510	116.584	0.080	11.920	0.069	11.600
156	7.800	25.590	95.240	95.278	0.335	6.090	0.352	14.800
157	7.850	25.754	109.730	109.775	0.460	7.170	0.419	13.700
158	7.900	25.918	120.190	120.230	0.303	6.420	0.252	17.300
159	7.950	26.082	90.660	90.697	0.090	5.860	0.099	28.900
160	8.000	26.246	110.990	111.027	0.363	5.910	0.327	30.600
161	8.050	26.410	105.970	106.016	0.330	7.290	0.311	35.700
162	8.100	26.574	142.370	142.428	0.671	9.260	0.471	48.600
163	8.150	26.739	154.060	154.150	0.645	14.430	0.418	63.300
164	8.200	26.903	176.460	176.540	1.150	12.760	0.651	75.600
165	8.250	27.067	123.540	123.689	1.498	23.940	1.211	74.300
166	8.300	27.231	47.530	47.730	1.500	31.960	3.143	61.700
167	8.350	27.395	48.620	48.954	1.209	53.490	2.470	54.500
168	8.400	27.559	38.120	38.176	1.260	9.000	3.300	43.100
169	8.450	27.723	50.520	50.573	1.251	8.430	2.474	26.000
170	8.500	27.887	70.090	70.212	1.398	19.500	1.991	17.400
171	8.550	28.051	65.860	65.942	1.446	13.110	2.193	14.900
172	8.600	28.215	63.480	63.555	1.604	11.940	2.524	16.300
173	8.650	28.379	37.820	37.896	1.013	12.150	2.673	10.400
174	8.700	28.543	23.670	23.723	1.101	8.520	4.641	10.800
175	8.750	28.707	39.240	39.302	1.196	9.990	3.043	11.200
176	8.800	28.871	51.010	51.027	1.688	2.750	3.308	11.200
177	8.850	29.035	74.970	74.984	1.737	2.200	2.317	14.500
178	8.900	29.199	27.330	27.372	1.413	6.800	5.162	10.300
179	8.950	29.363	30.480	30.518	1.147	6.120	3.758	10.100
180	9.000	29.527	53.670	53.722	1.122	8.250	2.089	11.200
181	9.050	29.691	57.530	57.675	1.223	23.150	2.121	10.700
182	9.100	29.855	86.360	86.411	1.201	8.200	1.390	11.300
183	9.150	30.019	83.610	83.712	0.971	16.300	1.160	10.500
184	9.200	30.183	48.690	48.727	1.214	5.850	2.491	11.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	52.070	52.117	1.162	7.580	2.230	12.400
186	9.300	30.511	79.430	79.459	1.248	4.570	1.571	12.400
187	9.350	30.675	96.110	96.503	1.379	63.000	1.429	14.500
188	9.400	30.840	42.420	42.511	1.630	14.500	3.834	20.400
189	9.450	31.004	62.650	62.691	1.409	6.490	2.248	13.700
190	9.500	31.168	43.220	43.279	1.126	9.500	2.602	14.200
191	9.550	31.332	26.470	26.518	0.860	7.660	3.243	16.700
192	9.600	31.496	20.050	20.104	0.623	8.650	3.099	15.400
193	9.650	31.660	19.170	19.227	0.492	9.180	2.559	19.100
194	9.700	31.824	12.750	12.804	0.406	8.600	3.171	19.900
195	9.750	31.988	8.290	8.343	0.274	8.410	3.284	30.300
196	9.800	32.152	12.300	12.356	0.366	8.910	2.962	30.100
197	9.850	32.316	23.440	23.487	0.486	7.530	2.069	24.300
198	9.900	32.480	69.510	69.559	2.449	7.860	3.521	25.700
199	9.950	32.644	169.800	169.918	3.998	18.910	2.353	24.100
200	10.000	32.808	177.380	177.456	3.588	12.230	2.022	27.800
201	10.050	32.972	137.800	137.904	3.728	16.660	2.703	32.900
202	10.100	33.136	47.300	47.351	3.622	8.140	7.649	34.800
203	10.150	33.300	68.910	69.122	3.890	33.980	5.628	41.200
204	10.200	33.464	190.760	190.795	1.455	5.650	0.763	26.600
205	10.250	33.628	228.330	228.362	1.677	5.070	0.734	22.500
206	10.300	33.792	207.910	207.943	3.892	5.310	1.872	22.700
207	10.350	33.956	105.960	105.988	4.247	4.410	4.007	20.900
208	10.400	34.120	43.510	43.541	4.419	5.010	10.149	16.100
209	10.450	34.284	47.740	47.834	2.146	15.090	4.486	17.800
210	10.500	34.448	47.580	47.752	1.219	27.600	2.553	15.000
211	10.550	34.612	35.180	35.608	1.119	68.630	3.143	15.600
212	10.600	34.776	61.510	61.610	0.757	15.980	1.229	14.200
213	10.650	34.941	90.690	90.825	1.390	21.680	1.530	13.700
214	10.700	35.105	67.390	67.437	1.524	7.520	2.260	13.700
215	10.750	35.269	21.130	21.161	1.064	5.000	5.028	13.200
216	10.800	35.433	15.420	15.470	0.409	7.980	2.644	15.600
217	10.850	35.597	30.450	30.495	0.490	7.150	1.607	14.500
218	10.900	35.761	38.140	38.218	0.540	12.420	1.413	15.700
219	10.950	35.925	29.570	29.664	0.944	15.050	3.182	18.000
220	11.000	36.089	45.010	45.130	1.194	19.250	2.646	23.100
221	11.050	36.253	28.300	28.509	1.204	33.450	4.223	30.500
222	11.100	36.417	34.510	34.594	0.999	13.480	2.888	32.500
223	11.150	36.581	33.170	33.312	1.099	22.700	3.299	37.800
224	11.200	36.745	35.170	35.217	1.118	7.500	3.175	27.600
225	11.250	36.909	16.520	16.755	1.292	37.580	7.711	27.100
226	11.300	37.073	29.890	30.358	1.592	74.990	5.244	25.300
227	11.350	37.237	54.350	54.762	1.609	66.020	2.938	35.500
228	11.400	37.401	56.370	56.717	1.768	55.550	3.117	38.700
229	11.450	37.565	31.060	31.206	1.321	23.350	4.233	36.000
230	11.500	37.729	21.370	21.452	1.050	13.140	4.895	42.800
231	11.550	37.893	25.540	25.654	0.864	18.260	3.368	58.800
232	11.600	38.057	41.840	41.985	0.960	23.230	2.287	62.000
233	11.650	38.221	45.880	46.000	1.130	19.160	2.457	93.600
234	11.700	38.385	29.180	29.276	0.888	15.440	3.033	108.100
235	11.750	38.549	17.750	17.837	0.742	13.880	4.160	122.900
236	11.800	38.713	18.790	18.931	0.513	22.550	2.710	99.100
237	11.850	38.877	22.080	22.192	0.646	17.910	2.911	71.700
238	11.900	39.042	30.420	30.488	1.029	10.950	3.375	67.100
239	11.950	39.206	36.460	36.512	1.220	8.250	3.341	76.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	70.550	70.658	1.509	17.250	2.136	87.800
241	12.050	39.534	54.650	54.798	1.610	23.680	2.938	93.100
242	12.100	39.698	50.410	50.526	1.539	18.610	3.046	83.100
243	12.150	39.862	82.140	82.249	1.495	17.510	1.818	76.500
244	12.200	40.026	93.430	93.544	2.263	18.200	2.419	73.000
245	12.250	40.190	90.250	90.351	2.440	16.190	2.701	85.600
246	12.300	40.354	69.610	69.705	2.175	15.140	3.120	93.800
247	12.350	40.518	50.250	50.353	1.864	16.470	3.702	73.100
248	12.400	40.682	38.530	38.660	1.322	20.860	3.420	55.100
249	12.450	40.846	31.000	31.113	0.972	18.180	3.124	51.500
250	12.500	41.010	25.760	25.864	0.681	16.610	2.633	41.100
251	12.550	41.174	34.010	34.105	0.819	15.190	2.401	31.500
252	12.600	41.338	28.810	28.880	1.471	11.180	5.094	33.900
253	12.650	41.502	35.480	35.526	1.645	7.380	4.630	33.600
254	12.700	41.666	45.680	45.734	1.343	8.670	2.937	51.600
255	12.750	41.830	31.840	31.867	1.152	4.370	3.615	54.000
256	12.800	41.994	40.550	40.579	0.655	4.660	1.614	60.000
257	12.850	42.158	59.490	59.511	0.428	3.350	0.719	59.300
258	12.900	42.322	44.830	44.857	0.405	4.370	0.903	61.500
259	12.950	42.486	46.990	47.014	0.344	3.860	0.732	46.900
260	13.000	42.650	48.320	48.355	0.409	5.580	0.846	43.800
261	13.050	42.814	49.850	49.875	0.456	4.000	0.914	35.100
262	13.100	42.978	38.160	38.181	0.383	3.300	1.003	43.400
263	13.150	43.143	26.190	26.204	0.416	2.220	1.588	46.800
264	13.200	43.307	39.570	39.585	0.608	2.430	1.536	46.500
265	13.250	43.471	77.020	77.067	0.940	7.540	1.220	52.600
266	13.300	43.635	118.850	118.882	1.266	5.060	1.065	48.800
267	13.350	43.799	135.960	136.024	1.144	10.260	0.841	54.700
268	13.400	43.963	144.800	144.850	1.152	8.070	0.795	61.300
269	13.450	44.127	141.340	141.391	0.855	8.220	0.605	61.000
270	13.500	44.291	131.840	131.891	0.915	8.220	0.694	64.700
271	13.550	44.455	118.530	118.581	0.960	8.220	0.810	54.200
272	13.600	44.619	103.410	103.461	0.866	8.210	0.837	72.800
273	13.650	44.783	88.710	88.761	0.748	8.130	0.843	61.900
274	13.700	44.947	79.390	79.435	0.612	7.280	0.770	68.900
275	13.750	45.111	66.130	66.174	0.592	7.090	0.895	72.100
276	13.800	45.275	56.360	56.405	0.603	7.160	1.069	80.000
277	13.850	45.439	52.800	52.844	0.583	7.050	1.103	67.400
278	13.900	45.603	49.740	49.783	0.481	6.850	0.966	79.300
279	13.950	45.767	38.240	38.282	0.411	6.710	1.074	67.900
280	14.000	45.931	31.360	31.399	0.276	6.220	0.879	61.400
281	14.050	46.095	23.370	23.386	0.216	2.520	0.924	62.700
282	14.100	46.259	21.570	21.591	0.310	3.340	1.436	49.900
283	14.150	46.423	24.680	24.712	0.191	5.120	0.773	34.500
284	14.200	46.587	16.130	16.154	0.455	3.890	2.817	33.200
285	14.250	46.751	33.510	33.533	0.503	3.690	1.500	25.700
286	14.300	46.915	17.640	17.661	0.703	3.370	3.981	28.200
287	14.350	47.079	35.080	35.106	0.754	4.180	2.148	27.000
288	14.400	47.244	25.410	25.457	0.722	7.520	2.836	32.000
289	14.450	47.408	15.210	15.266	0.673	8.990	4.408	33.900
290	14.500	47.572	22.680	22.704	0.672	3.790	2.960	41.100
291	14.550	47.736	22.630	22.658	0.613	4.450	2.705	55.600
292	14.600	47.900	10.790	10.838	0.530	7.610	4.890	54.100
293	14.650	48.064	12.840	12.893	0.390	8.490	3.025	55.100
294	14.700	48.228	16.590	16.650	0.311	9.550	1.868	62.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	16.820	16.961	0.280	22.600	1.651	68.000
296	14.800	48.556	30.950	31.062	0.538	17.930	1.732	73.900
297	14.850	48.720	62.680	62.804	0.845	19.810	1.345	74.500
298	14.900	48.884	100.960	101.048	1.265	14.130	1.252	74.800
299	14.950	49.048	120.670	120.774	1.175	16.690	0.973	77.800
300	15.000	49.212	106.440	106.530	1.334	14.460	1.252	81.000
301	15.050	49.376	104.510	104.600	1.179	14.380	1.127	77.500
302	15.100	49.540	93.420	93.513	1.050	14.830	1.123	79.700
303	15.150	49.704	73.860	73.951	0.984	14.500	1.331	74.900
304	15.200	49.868	61.260	61.349	0.819	14.270	1.335	65.300
305	15.250	50.032	56.550	56.643	0.696	14.930	1.229	61.300
306	15.300	50.196	41.870	41.960	0.723	14.390	1.723	55.700
307	15.350	50.360	29.200	29.286	0.706	13.760	2.411	39.400
308	15.400	50.524	27.690	27.782	0.680	14.770	2.448	34.700
309	15.450	50.688	46.610	46.705	1.057	15.190	2.263	30.600
310	15.500	50.852	63.430	63.516	1.523	13.710	2.398	25.800
311	15.550	51.016	59.300	59.365	0.767	10.370	1.292	21.400
312	15.600	51.180	50.330	50.397	1.176	10.710	2.333	16.500
313	15.650	51.345	95.650	95.681	1.749	4.990	1.828	24.700
314	15.700	51.509	140.670	140.698	3.571	4.430	2.538	18.200
315	15.750	51.673	186.740	186.766	3.717	4.110	1.990	29.100
316	15.800	51.837	68.180	68.205	3.264	3.980	4.786	32.600
317	15.850	52.001	87.360	87.387	1.918	4.300	2.195	32.400
318	15.900	52.165	23.400	23.436	1.502	5.740	6.409	35.800
319	15.950	52.329	11.810	11.877	0.980	10.690	8.251	26.300
320	16.000	52.493	26.750	26.835	0.546	13.600	2.035	22.600
321	16.050	52.657	40.580	40.624	0.707	7.090	1.740	23.300
322	16.100	52.821	59.300	59.337	1.153	5.970	1.943	21.300
323	16.150	52.985	65.230	65.386	1.301	25.030	1.990	25.500
324	16.200	53.149	46.240	46.380	1.543	22.410	3.327	23.500
325	16.250	53.313	54.140	54.204	1.338	10.330	2.468	20.900
326	16.300	53.477	41.110	41.153	1.299	6.870	3.157	22.400
327	16.350	53.641	51.030	51.137	1.271	17.060	2.486	18.600
328	16.400	53.805	51.500	51.594	1.501	15.010	2.909	22.700
329	16.450	53.969	54.880	54.966	1.583	13.800	2.880	31.000
330	16.500	54.133	46.080	46.159	1.819	12.720	3.941	36.600
331	16.550	54.297	31.860	31.921	1.723	9.790	5.398	46.100
332	16.600	54.461	61.170	61.243	1.166	11.770	1.904	50.700
333	16.650	54.625	66.820	66.908	0.817	14.160	1.221	54.600
334	16.700	54.789	80.290	80.361	0.907	11.350	1.129	0.000
335	16.750	54.953	62.340	62.399	0.799	9.460	1.280	0.000
336	16.800	55.117	84.030	84.115	0.895	13.540	1.064	0.000
337	16.850	55.281	122.060	122.127	0.896	10.760	0.734	0.000
338	16.900	55.446	117.320	117.377	0.992	9.100	0.845	0.000
339	16.950	55.610	104.420	104.472	1.156	8.300	1.107	0.000
340	17.000	55.774	102.410	102.460	1.514	8.040	1.478	0.000
341	17.050	55.938	93.600	93.650	1.458	8.070	1.557	0.000
342	17.100	56.102	142.270	142.330	2.285	9.570	1.605	0.000
343	17.150	56.266	172.340	172.400	1.690	9.610	0.980	0.000
344	17.200	56.430	200.880	200.938	2.832	9.340	1.409	0.000
345	17.250	56.594	227.030	227.070	2.244	6.400	0.988	0.000
346	17.300	56.758	212.720	212.728	3.095	1.350	1.455	0.000
347	17.350	56.922	88.190	88.215	1.835	3.940	2.080	0.000
348	17.400	57.086	126.420	126.412	1.458	-1.330	1.153	0.000
349	17.450	57.250	203.320	203.349	0.000	4.680	0.000	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
350	17.500	57.414	290.450	290.464	0.000	2.310	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221596
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-12-5
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	09:00
CPT File:	13-53075_GP12-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722253.444
Northing / Lat:	4294324.396
Elevation:	145.715
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	23.050	23.054	0.069	0.670	0.299	30.400
2	0.100	0.328	37.850	37.858	0.175	1.250	0.462	11.300
3	0.150	0.492	45.150	45.158	0.167	1.350	0.370	12.600
4	0.200	0.656	50.250	50.256	0.282	0.940	0.561	11.900
5	0.250	0.820	51.220	51.221	0.274	0.240	0.535	36.100
6	0.300	0.984	55.330	55.335	0.481	0.830	0.869	48.900
7	0.350	1.148	85.670	85.672	0.757	0.400	0.884	41.700
8	0.400	1.312	47.910	47.920	0.826	1.610	1.724	65.700
9	0.450	1.476	41.820	41.832	0.926	1.930	2.214	74.800
10	0.500	1.640	44.790	44.804	0.474	2.230	1.058	66.500
11	0.550	1.804	49.240	49.250	0.623	1.660	1.265	79.800
12	0.600	1.968	56.410	56.419	1.214	1.510	2.152	99.600
13	0.650	2.133	62.410	62.433	0.644	3.740	1.032	92.900
14	0.700	2.297	66.910	66.921	0.804	1.700	1.201	90.000
15	0.750	2.461	83.730	83.741	1.418	1.800	1.693	94.300
16	0.800	2.625	66.330	66.360	2.015	4.770	3.036	84.500
17	0.850	2.789	65.680	65.695	1.466	2.460	2.232	82.200
18	0.900	2.953	108.280	108.303	0.601	3.730	0.555	63.300
19	0.950	3.117	49.670	49.678	1.632	1.310	3.285	45.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	43.790	43.800	1.665	1.630	3.801	78.600
21	1.050	3.445	56.810	56.815	2.357	0.820	4.149	72.400
22	1.100	3.609	55.720	55.728	1.851	1.360	3.321	66.200
23	1.150	3.773	94.210	94.226	2.679	2.530	2.843	70.400
24	1.200	3.937	56.570	56.577	1.361	1.090	2.406	68.800
25	1.250	4.101	56.390	56.396	1.953	1.000	3.463	63.900
26	1.300	4.265	67.850	67.848	1.468	-0.310	2.164	67.400
27	1.350	4.429	57.060	57.054	1.671	-0.950	2.929	59.300
28	1.400	4.593	79.710	79.736	1.511	4.210	1.895	56.100
29	1.450	4.757	89.170	89.188	1.736	2.960	1.946	62.700
30	1.500	4.921	55.340	55.345	6.391	0.800	11.548	59.100
31	1.550	5.085	77.290	77.303	7.004	2.120	9.060	62.200
32	1.600	5.249	152.190	152.193	3.895	0.410	2.559	64.100
33	1.650	5.413	227.890	227.897	3.893	1.110	1.708	57.400
34	1.700	5.577	63.900	63.904	5.694	0.710	8.910	75.900
35	1.750	5.741	107.470	107.483	5.357	2.110	4.984	67.600
36	1.800	5.905	105.780	105.783	3.677	0.460	3.476	82.700
37	1.850	6.069	31.080	31.085	1.730	0.830	5.565	83.900
38	1.900	6.234	33.060	33.063	1.083	0.470	3.276	85.100
39	1.950	6.398	25.390	25.390	0.494	0.080	1.946	92.700
40	2.000	6.562	40.510	40.516	0.346	0.990	0.854	86.700
41	2.050	6.726	37.360	37.364	0.290	0.580	0.776	86.400
42	2.100	6.890	30.120	30.124	0.287	0.620	0.953	74.400
43	2.150	7.054	24.100	24.099	0.328	-0.110	1.361	87.600
44	2.200	7.218	16.530	16.539	0.385	1.440	2.328	92.700
45	2.250	7.382	14.010	14.014	0.439	0.680	3.133	89.000
46	2.300	7.546	12.480	12.475	0.414	-0.860	3.319	107.200
47	2.350	7.710	10.990	10.989	0.340	-0.160	3.094	94.200
48	2.400	7.874	11.020	11.014	0.318	-0.970	2.887	98.500
49	2.450	8.038	9.730	9.727	0.269	-0.520	2.766	96.600
50	2.500	8.202	9.290	9.287	0.217	-0.500	2.337	93.100
51	2.550	8.366	10.720	10.716	0.162	-0.670	1.512	89.400
52	2.600	8.530	21.550	21.542	0.648	-1.250	3.008	96.200
53	2.650	8.694	24.000	24.000	0.356	-0.080	1.483	90.600
54	2.700	8.858	5.610	5.611	0.429	0.140	7.646	74.500
55	2.750	9.022	11.440	11.442	0.517	0.380	4.518	88.700
56	2.800	9.186	9.990	9.988	0.405	-0.290	4.055	67.800
57	2.850	9.350	7.180	7.231	0.349	8.160	4.826	65.000
58	2.900	9.514	7.690	7.748	0.227	9.240	2.930	58.700
59	2.950	9.678	8.750	8.817	0.326	10.760	3.697	63.000
60	3.000	9.842	11.880	11.947	0.449	10.660	3.758	72.500
61	3.050	10.006	10.580	10.613	0.443	5.260	4.174	63.700
62	3.100	10.170	10.800	10.878	0.383	12.500	3.521	74.700
63	3.150	10.335	9.520	9.626	0.381	16.980	3.958	78.900
64	3.200	10.499	10.020	10.120	0.500	16.020	4.941	76.300
65	3.250	10.663	16.030	16.145	0.655	18.400	4.057	90.600
66	3.300	10.827	24.420	24.542	0.649	19.570	2.644	89.100
67	3.350	10.991	35.130	35.207	0.774	12.350	2.198	83.300
68	3.400	11.155	39.920	39.972	0.730	8.360	1.826	83.100
69	3.450	11.319	47.660	47.708	0.769	7.740	1.612	89.300
70	3.500	11.483	48.160	48.190	0.702	4.770	1.457	87.700
71	3.550	11.647	49.700	49.732	0.701	5.060	1.410	78.600
72	3.600	11.811	55.190	55.227	0.662	5.860	1.199	79.200
73	3.650	11.975	56.850	56.876	0.568	4.210	0.999	93.700
74	3.700	12.139	68.440	68.462	0.566	3.540	0.827	83.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	72.750	72.774	0.696	3.850	0.956	100.000
76	3.800	12.467	68.250	68.275	1.292	4.030	1.892	80.900
77	3.850	12.631	61.090	61.111	1.240	3.290	2.029	82.000
78	3.900	12.795	43.310	43.338	1.281	4.520	2.956	85.500
79	3.950	12.959	27.030	27.068	1.197	6.070	4.422	92.300
80	4.000	13.123	21.760	21.812	1.070	8.370	4.905	76.900
81	4.050	13.287	26.360	26.399	0.987	6.320	3.739	88.100
82	4.100	13.451	37.990	38.026	0.926	5.720	2.435	91.500
83	4.150	13.615	44.920	44.945	1.054	3.940	2.345	83.900
84	4.200	13.779	54.580	54.600	1.087	3.270	1.991	92.200
85	4.250	13.943	54.300	54.316	1.182	2.590	2.176	84.800
86	4.300	14.107	53.120	53.128	1.230	1.240	2.315	62.200
87	4.350	14.271	60.860	60.870	1.097	1.540	1.802	54.300
88	4.400	14.436	59.280	59.291	0.768	1.710	1.295	50.600
89	4.450	14.600	58.440	58.446	0.788	0.900	1.348	47.300
90	4.500	14.764	50.150	50.154	0.504	0.580	1.005	42.200
91	4.550	14.928	39.680	39.681	0.366	0.240	0.922	45.200
92	4.600	15.092	33.580	33.585	0.359	0.730	1.069	45.900
93	4.650	15.256	26.670	26.671	0.363	0.220	1.361	56.200
94	4.700	15.420	26.720	26.726	0.453	0.980	1.695	60.000
95	4.750	15.584	27.930	27.944	0.587	2.190	2.101	64.800
96	4.800	15.748	33.090	33.098	0.604	1.230	1.825	58.600
97	4.850	15.912	34.840	34.851	0.373	1.750	1.070	45.000
98	4.900	16.076	54.890	54.899	0.559	1.390	1.018	33.800
99	4.950	16.240	59.440	59.440	0.512	0.050	0.861	24.300
100	5.000	16.404	20.220	20.230	0.546	1.670	2.699	19.200
101	5.050	16.568	46.950	46.961	0.696	1.730	1.482	17.200
102	5.100	16.732	40.180	40.214	0.547	5.430	1.360	11.400
103	5.150	16.896	32.780	32.806	0.380	4.180	1.158	17.200
104	5.200	17.060	26.280	26.283	0.292	0.460	1.111	19.600
105	5.250	17.224	26.420	26.428	0.659	1.350	2.494	17.700
106	5.300	17.388	43.800	43.818	1.109	2.900	2.531	22.100
107	5.350	17.552	64.430	64.506	1.570	12.200	2.434	24.500
108	5.400	17.716	58.940	59.120	1.503	28.820	2.542	24.400
109	5.450	17.880	72.280	72.532	1.146	40.410	1.580	38.100
110	5.500	18.044	110.550	110.615	0.617	10.430	0.558	52.500
111	5.550	18.208	115.170	115.219	0.668	7.840	0.580	55.100
112	5.600	18.372	91.510	91.542	1.022	5.190	1.116	65.900
113	5.650	18.537	60.440	60.486	1.441	7.380	2.382	56.500
114	5.700	18.701	45.260	45.308	1.278	7.710	2.821	54.700
115	5.750	18.865	41.360	41.414	1.202	8.690	2.902	45.200
116	5.800	19.029	31.060	31.113	1.009	8.410	3.243	54.200
117	5.850	19.193	22.500	22.571	0.713	11.440	3.159	53.500
118	5.900	19.357	51.070	51.138	0.668	10.860	1.306	69.400
119	5.950	19.521	61.010	61.066	0.871	8.930	1.426	56.500
120	6.000	19.685	52.990	53.037	1.189	7.550	2.242	67.900
121	6.050	19.849	44.160	44.197	1.223	6.000	2.767	49.500
122	6.100	20.013	33.800	33.826	0.951	4.170	2.811	42.100
123	6.150	20.177	33.740	33.774	0.739	5.520	2.188	33.400
124	6.200	20.341	49.570	49.603	0.666	5.220	1.343	25.200
125	6.250	20.505	81.310	81.336	0.714	4.110	0.878	21.600
126	6.300	20.669	48.630	48.660	0.908	4.880	1.866	17.900
127	6.350	20.833	38.340	38.371	1.012	5.030	2.637	18.000
128	6.400	20.997	34.880	34.915	0.679	5.620	1.945	20.600
129	6.450	21.161	46.370	46.410	1.066	6.460	2.297	19.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	55.330	55.365	1.497	5.560	2.704	21.500
131	6.550	21.489	40.950	40.991	1.092	6.550	2.664	22.700
132	6.600	21.653	72.110	72.135	0.637	4.030	0.883	30.900
133	6.650	21.817	60.270	60.283	0.477	2.150	0.791	45.900
134	6.700	21.981	27.610	27.614	0.967	0.690	3.502	47.600
135	6.750	22.145	21.310	21.368	0.550	9.310	2.574	68.200
136	6.800	22.309	30.510	30.573	0.566	10.130	1.851	59.900
137	6.850	22.473	91.750	91.799	0.463	7.830	0.504	84.500
138	6.900	22.638	125.500	125.550	0.890	8.080	0.709	87.600
139	6.950	22.802	107.100	107.128	1.480	4.440	1.382	83.200
140	7.000	22.966	112.490	112.530	1.782	6.340	1.584	75.900
141	7.050	23.130	88.150	88.182	1.813	5.100	2.056	81.300
142	7.100	23.294	66.540	66.571	1.584	4.940	2.379	73.600
143	7.150	23.458	57.940	57.972	1.638	5.140	2.825	47.600
144	7.200	23.622	51.750	51.770	1.310	3.230	2.530	36.700
145	7.250	23.786	35.720	35.762	1.362	6.780	3.808	27.600
146	7.300	23.950	80.370	80.413	1.784	6.840	2.219	24.300
147	7.350	24.114	77.440	77.485	1.952	7.250	2.519	19.000
148	7.400	24.278	74.780	74.834	2.059	8.700	2.751	20.800
149	7.450	24.442	48.230	48.286	1.681	8.920	3.481	24.200
150	7.500	24.606	12.730	12.779	0.694	7.870	5.431	19.900
151	7.550	24.770	26.410	26.487	0.856	12.350	3.232	20.200
152	7.600	24.934	19.120	19.160	0.830	6.430	4.332	22.500
153	7.650	25.098	72.780	72.817	1.091	5.930	1.498	11.000
154	7.700	25.262	46.560	46.626	1.131	10.620	2.426	13.000
155	7.750	25.426	33.410	33.477	0.986	10.660	2.945	13.300
156	7.800	25.590	29.150	29.214	0.767	10.200	2.625	14.900
157	7.850	25.754	29.750	29.802	0.931	8.270	3.124	19.400
158	7.900	25.918	33.250	33.299	1.206	7.810	3.622	22.200
159	7.950	26.082	58.460	58.519	1.147	9.390	1.960	27.300
160	8.000	26.246	111.200	111.257	1.041	9.060	0.936	34.600
161	8.050	26.410	68.330	68.398	1.112	10.960	1.626	49.300
162	8.100	26.574	51.060	51.101	1.039	6.610	2.033	61.200
163	8.150	26.739	58.490	58.542	0.853	8.390	1.457	53.700
164	8.200	26.903	67.260	67.310	0.842	7.950	1.251	62.700
165	8.250	27.067	44.690	44.738	0.909	7.610	2.032	58.100
166	8.300	27.231	21.570	21.615	0.839	7.160	3.882	61.100
167	8.350	27.395	16.770	16.807	0.683	5.940	4.064	42.000
168	8.400	27.559	37.330	37.385	0.976	8.780	2.611	38.000
169	8.450	27.723	48.970	49.034	1.003	10.200	2.046	27.000
170	8.500	27.887	56.430	56.490	1.095	9.590	1.938	29.800
171	8.550	28.051	58.710	58.748	1.037	6.160	1.765	23.900
172	8.600	28.215	64.940	64.966	0.951	4.200	1.464	24.100
173	8.650	28.379	45.320	45.363	1.064	6.850	2.346	24.900
174	8.700	28.543	63.530	63.568	1.494	6.150	2.350	16.700
175	8.750	28.707	45.410	45.467	1.279	9.130	2.813	15.500
176	8.800	28.871	97.940	97.980	2.179	6.400	2.224	10.600
177	8.850	29.035	85.030	85.071	1.938	6.490	2.278	12.400
178	8.900	29.199	42.730	42.766	1.949	5.820	4.557	16.100
179	8.950	29.363	54.480	54.514	1.228	5.370	2.253	19.800
180	9.000	29.527	83.280	83.303	1.042	3.620	1.251	17.000
181	9.050	29.691	101.030	101.094	1.377	10.310	1.362	17.700
182	9.100	29.855	116.010	116.058	1.126	7.610	0.970	15.000
183	9.150	30.019	101.350	101.454	0.835	16.590	0.823	11.300
184	9.200	30.183	70.480	70.617	0.734	21.950	1.039	11.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	44.480	44.669	0.619	30.220	1.386	14.000
186	9.300	30.511	37.600	37.762	0.463	26.000	1.226	14.300
187	9.350	30.675	39.570	39.672	0.555	16.400	1.399	16.800
188	9.400	30.840	36.810	36.890	0.408	12.820	1.106	19.800
189	9.450	31.004	81.960	82.035	0.725	12.000	0.884	19.800
190	9.500	31.168	94.840	94.885	0.718	7.270	0.757	31.500
191	9.550	31.332	42.210	42.320	1.123	17.570	2.654	33.300
192	9.600	31.496	40.520	40.597	0.921	12.260	2.269	34.300
193	9.650	31.660	86.790	86.939	1.473	23.820	1.694	40.000
194	9.700	31.824	61.810	61.987	1.233	28.290	1.989	50.100
195	9.750	31.988	55.920	56.080	0.868	25.660	1.548	73.600
196	9.800	32.152	100.760	100.909	0.913	23.790	0.905	63.400
197	9.850	32.316	85.540	85.613	0.567	11.700	0.662	63.100
198	9.900	32.480	114.440	114.480	1.042	6.340	0.910	67.700
199	9.950	32.644	88.760	88.784	1.534	3.810	1.728	55.000
200	10.000	32.808	127.920	127.966	1.307	7.360	1.021	47.900
201	10.050	32.972	88.220	88.260	1.281	6.330	1.451	56.100
202	10.100	33.136	92.780	92.821	0.749	6.580	0.807	37.900
203	10.150	33.300	75.000	75.087	0.894	13.860	1.191	25.700
204	10.200	33.464	50.590	50.736	1.042	23.310	2.054	17.600
205	10.250	33.628	56.410	56.503	0.783	14.820	1.386	20.200
206	10.300	33.792	37.590	37.643	0.768	8.490	2.040	13.800
207	10.350	33.956	26.090	26.195	1.125	16.870	4.295	15.600
208	10.400	34.120	36.630	36.739	1.003	17.530	2.730	16.500
209	10.450	34.284	76.330	76.462	0.487	21.170	0.637	15.500
210	10.500	34.448	43.660	43.785	0.406	20.080	0.927	16.400
211	10.550	34.612	44.820	44.924	0.660	16.720	1.469	18.300
212	10.600	34.776	74.110	74.214	0.526	16.690	0.709	20.000
213	10.650	34.941	42.700	42.798	0.847	15.680	1.979	20.600
214	10.700	35.105	46.540	46.642	0.741	16.270	1.589	23.600
215	10.750	35.269	52.860	52.983	0.764	19.780	1.442	29.200
216	10.800	35.433	97.410	97.536	0.761	20.260	0.780	45.300
217	10.850	35.597	70.630	70.744	0.907	18.220	1.282	55.300
218	10.900	35.761	68.620	68.681	0.812	9.810	1.182	71.800
219	10.950	35.925	36.500	36.559	0.648	9.460	1.772	83.700
220	11.000	36.089	36.460	36.518	0.745	9.220	2.040	87.700
221	11.050	36.253	59.810	59.861	0.582	8.240	0.972	81.200
222	11.100	36.417	36.080	36.142	0.617	10.000	1.707	90.700
223	11.150	36.581	32.810	32.926	0.736	18.600	2.235	101.400
224	11.200	36.745	48.240	48.353	0.496	18.160	1.026	92.600
225	11.250	36.909	41.270	41.381	0.741	17.740	1.791	87.100
226	11.300	37.073	35.170	35.295	0.521	19.950	1.476	74.500
227	11.350	37.237	30.970	31.087	0.489	18.770	1.573	47.900
228	11.400	37.401	42.700	42.788	0.368	14.170	0.860	25.500
229	11.450	37.565	38.510	38.599	0.290	14.300	0.751	3.300
230	11.500	37.729	17.770	17.830	0.282	9.660	1.582	2.600
231	11.550	37.893	17.370	17.422	0.190	8.340	1.091	2.700
232	11.600	38.057	28.920	28.967	0.377	7.600	1.301	1.800
233	11.650	38.221	40.600	40.650	0.576	8.070	1.417	0.900
234	11.700	38.385	63.300	63.345	0.739	7.280	1.167	1.300
235	11.750	38.549	49.150	49.206	0.704	8.920	1.431	1.100
236	11.800	38.713	38.180	38.229	0.620	7.780	1.622	1.800
237	11.850	38.877	42.830	42.896	0.508	10.570	1.184	14.600
238	11.900	39.042	31.070	31.162	0.558	14.710	1.791	20.800
239	11.950	39.206	20.370	20.461	0.461	14.640	2.253	14.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	20.220	20.279	0.426	9.460	2.101	18.100
241	12.050	39.534	26.810	26.861	0.228	8.170	0.849	14.300
242	12.100	39.698	21.830	21.867	0.339	5.950	1.550	0.000
243	12.150	39.862	32.740	32.773	0.455	5.340	1.388	0.000
244	12.200	40.026	50.560	50.600	0.576	6.390	1.138	0.000
245	12.250	40.190	57.210	57.264	0.420	8.680	0.733	0.000
246	12.300	40.354	57.900	57.958	0.740	9.260	1.277	0.000
247	12.350	40.518	29.770	29.820	0.725	8.040	2.431	0.000
248	12.400	40.682	79.840	79.892	0.627	8.310	0.785	0.000
249	12.450	40.846	141.180	141.245	0.795	10.440	0.563	0.000
250	12.500	41.010	114.500	114.583	0.984	13.360	0.859	0.000
251	12.550	41.174	44.800	44.858	0.722	9.320	1.610	0.000
252	12.600	41.338	31.040	31.106	0.505	10.620	1.623	0.000
253	12.650	41.502	53.610	53.683	0.911	11.700	1.697	0.000
254	12.700	41.666	88.680	88.744	2.058	10.230	2.319	0.000
255	12.750	41.830	220.710	220.769	1.067	9.480	0.483	0.000
256	12.800	41.994	443.910	443.980	0.000	11.170	0.000	0.000
257	12.850	42.158	392.120	392.179	0.000	9.520	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221598
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-12-6
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-18-2013
CPT Time:	08:18
CPT File:	13-53075_GP12-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722257.566
Northing / Lat:	4294306.254
Elevation:	145.871
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.610	1.610	0.055	-0.020	3.416	2.900
2	0.100	0.328	16.000	16.002	0.145	0.310	0.906	1.200
3	0.150	0.492	32.050	32.052	0.129	0.250	0.402	2.900
4	0.200	0.656	38.090	38.092	0.176	0.320	0.462	4.700
5	0.250	0.820	47.820	47.823	0.350	0.430	0.732	4.700
6	0.300	0.984	46.760	46.764	0.416	0.680	0.890	4.600
7	0.350	1.148	25.290	25.291	0.371	0.160	1.467	4.100
8	0.400	1.312	23.340	23.342	0.318	0.250	1.362	4.700
9	0.450	1.476	24.490	24.489	0.254	-0.120	1.037	4.600
10	0.500	1.640	25.590	25.589	0.252	-0.170	0.985	7.700
11	0.550	1.804	25.570	25.568	0.300	-0.360	1.173	5.800
12	0.600	1.968	39.060	39.058	0.387	-0.320	0.991	7.000
13	0.650	2.133	45.670	45.671	0.473	0.130	1.036	5.900
14	0.700	2.297	50.900	50.902	0.668	0.390	1.312	5.800
15	0.750	2.461	67.000	67.002	0.842	0.400	1.257	7.600
16	0.800	2.625	110.240	110.248	1.324	1.280	1.201	5.300
17	0.850	2.789	95.960	95.971	1.527	1.750	1.591	7.500
18	0.900	2.953	59.770	59.783	1.608	2.120	2.690	2.200
19	0.950	3.117	36.450	36.464	1.627	2.180	4.462	7.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	30.950	30.971	1.167	3.400	3.768	5.000
21	1.050	3.445	31.570	31.596	1.140	4.100	3.608	6.200
22	1.100	3.609	52.000	52.027	1.240	4.250	2.383	3.400
23	1.150	3.773	49.770	49.792	1.155	3.520	2.320	3.500
24	1.200	3.937	57.360	57.380	1.488	3.170	2.593	7.000
25	1.250	4.101	49.030	49.029	1.352	-0.120	2.758	6.000
26	1.300	4.265	31.700	31.718	1.280	2.890	4.036	6.400
27	1.350	4.429	28.480	28.514	0.995	5.400	3.490	57.800
28	1.400	4.593	21.370	21.404	0.737	5.500	3.443	85.800
29	1.450	4.757	15.600	15.630	0.680	4.760	4.351	79.300
30	1.500	4.921	20.250	20.284	0.869	5.460	4.284	84.000
31	1.550	5.085	21.610	21.648	0.898	6.040	4.148	72.700
32	1.600	5.249	41.970	41.990	0.677	3.270	1.612	68.600
33	1.650	5.413	61.100	61.117	1.728	2.710	2.827	72.400
34	1.700	5.577	72.060	72.075	1.590	2.420	2.206	69.900
35	1.750	5.741	14.770	14.781	1.561	1.840	10.561	76.700
36	1.800	5.905	23.750	23.761	1.979	1.740	8.329	69.400
37	1.850	6.069	26.640	26.650	0.535	1.540	2.008	71.300
38	1.900	6.234	17.810	17.815	0.517	0.860	2.902	68.700
39	1.950	6.398	15.260	15.260	1.138	-0.050	7.458	58.300
40	2.000	6.562	16.050	16.048	1.149	-0.370	7.160	69.400
41	2.050	6.726	263.180	263.180	1.082	-0.010	0.411	59.600
42	2.100	6.890	306.930	306.932	3.932	0.280	1.281	64.500
43	2.150	7.054	160.140	160.149	6.281	1.410	3.922	52.800
44	2.200	7.218	113.910	113.912	5.127	0.260	4.501	51.600
45	2.250	7.382	74.890	74.891	1.920	0.100	2.564	63.500
46	2.300	7.546	71.460	71.458	1.369	-0.320	1.916	63.900
47	2.350	7.710	54.070	54.068	1.311	-0.310	2.425	63.200
48	2.400	7.874	51.460	51.458	1.296	-0.390	2.519	52.900
49	2.450	8.038	40.420	40.419	0.627	-0.170	1.551	73.500
50	2.500	8.202	33.950	33.945	0.446	-0.750	1.314	61.100
51	2.550	8.366	30.780	30.780	1.134	-0.070	3.684	59.300
52	2.600	8.530	26.490	26.482	0.842	-1.320	3.180	67.500
53	2.650	8.694	15.010	15.012	0.840	0.250	5.596	66.000
54	2.700	8.858	17.060	17.060	0.527	0.050	3.089	69.800
55	2.750	9.022	13.990	13.995	0.433	0.740	3.094	66.700
56	2.800	9.186	11.290	11.275	0.309	-2.460	2.741	6.800
57	2.850	9.350	10.400	10.389	0.317	-1.750	3.051	10.200
58	2.900	9.514	11.880	11.878	0.260	-0.250	2.189	6.900
59	2.950	9.678	12.220	12.211	0.244	-1.390	1.998	5.700
60	3.000	9.842	10.110	10.095	0.240	-2.350	2.377	6.400
61	3.050	10.006	10.700	10.689	0.257	-1.780	2.404	8.100
62	3.100	10.170	12.960	12.947	0.290	-2.080	2.240	6.400
63	3.150	10.335	11.750	11.721	0.317	-4.640	2.705	5.300
64	3.200	10.499	10.970	10.940	0.329	-4.820	3.007	10.000
65	3.250	10.663	10.370	10.334	0.280	-5.740	2.709	5.900
66	3.300	10.827	9.910	9.873	0.224	-5.930	2.269	5.300
67	3.350	10.991	11.710	11.671	0.211	-6.310	1.808	6.700
68	3.400	11.155	13.730	13.724	0.302	-0.990	2.201	28.900
69	3.450	11.319	13.790	13.784	0.327	-0.920	2.372	72.400
70	3.500	11.483	15.510	15.514	0.348	0.610	2.243	71.400
71	3.550	11.647	19.630	19.610	0.514	-3.170	2.621	79.800
72	3.600	11.811	20.340	20.317	0.630	-3.750	3.101	75.300
73	3.650	11.975	17.230	17.203	0.502	-4.340	2.918	74.100
74	3.700	12.139	15.170	15.129	0.430	-6.620	2.842	74.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	11.410	11.362	0.309	-7.700	2.720	62.200
76	3.800	12.467	9.570	9.538	0.291	-5.090	3.051	67.300
77	3.850	12.631	9.040	8.997	0.244	-6.880	2.712	61.100
78	3.900	12.795	9.370	9.337	0.198	-5.350	2.121	64.200
79	3.950	12.959	10.690	10.647	0.350	-6.930	3.287	60.200
80	4.000	13.123	15.210	15.167	0.555	-6.930	3.659	80.100
81	4.050	13.287	34.110	34.044	1.193	-10.520	3.504	53.000
82	4.100	13.451	51.350	51.265	1.622	-13.660	3.164	64.700
83	4.150	13.615	226.780	226.777	2.228	-0.550	0.982	64.000
84	4.200	13.779	222.620	222.616	2.178	-0.710	0.978	46.200
85	4.250	13.943	204.850	204.848	1.296	-0.400	0.633	38.000
86	4.300	14.107	113.370	113.368	2.758	-0.390	2.433	48.800
87	4.350	14.271	68.510	68.510	2.761	-0.060	4.030	58.600
88	4.400	14.436	24.050	24.045	2.785	-0.880	11.583	67.600
89	4.450	14.600	36.820	36.751	0.232	-11.120	0.631	79.900
90	4.500	14.764	19.890	19.825	0.166	-10.430	0.837	79.300
91	4.550	14.928	15.140	15.076	0.221	-10.220	1.466	76.900
92	4.600	15.092	18.220	18.180	0.212	-6.480	1.166	71.700
93	4.650	15.256	18.460	18.417	0.163	-6.810	0.885	83.600
94	4.700	15.420	13.390	13.349	0.135	-6.490	1.011	74.100
95	4.750	15.584	18.460	18.422	0.164	-6.090	0.890	77.600
96	4.800	15.748	19.050	19.013	0.111	-5.940	0.584	80.500
97	4.850	15.912	10.300	10.263	0.115	-5.920	1.121	76.400
98	4.900	16.076	8.000	7.968	0.109	-5.070	1.368	78.200
99	4.950	16.240	7.250	7.225	0.091	-3.980	1.259	91.800
100	5.000	16.404	7.360	7.340	0.099	-3.170	1.349	84.600
101	5.050	16.568	8.150	8.136	0.101	-2.320	1.241	74.900
102	5.100	16.732	8.250	8.242	0.113	-1.290	1.371	88.500
103	5.150	16.896	9.170	9.166	0.090	-0.650	0.982	73.800
104	5.200	17.060	8.120	8.120	0.120	-0.030	1.478	73.000
105	5.250	17.224	11.060	11.067	0.221	1.110	1.997	86.900
106	5.300	17.388	16.520	16.532	0.314	1.920	1.899	84.800
107	5.350	17.552	20.530	20.541	0.383	1.810	1.865	77.500
108	5.400	17.716	20.810	20.817	0.441	1.100	2.118	73.900
109	5.450	17.880	16.620	16.619	0.451	-0.140	2.714	67.800
110	5.500	18.044	15.690	15.689	0.254	-0.130	1.619	59.100
111	5.550	18.208	24.290	24.283	0.233	-1.060	0.960	75.800
112	5.600	18.372	26.850	26.821	0.491	-4.630	1.831	58.900
113	5.650	18.537	17.540	17.558	0.548	2.830	3.121	43.700
114	5.700	18.701	11.190	11.208	0.527	2.860	4.702	41.500
115	5.750	18.865	10.680	10.711	0.247	4.970	2.306	26.400
116	5.800	19.029	12.980	13.016	0.208	5.780	1.598	24.700
117	5.850	19.193	17.600	17.619	0.126	3.030	0.715	24.600
118	5.900	19.357	31.250	31.266	0.262	2.490	0.838	25.300
119	5.950	19.521	45.140	45.164	0.604	3.850	1.337	18.600
120	6.000	19.685	22.540	22.557	0.750	2.660	3.325	15.300
121	6.050	19.849	16.740	16.768	0.783	4.530	4.670	16.500
122	6.100	20.013	19.720	19.752	0.647	5.140	3.276	14.200
123	6.150	20.177	26.190	26.204	0.740	2.170	2.824	14.700
124	6.200	20.341	27.060	27.097	0.762	6.000	2.812	18.300
125	6.250	20.505	25.250	25.292	0.775	6.800	3.064	25.400
126	6.300	20.669	14.830	14.873	0.971	6.890	6.529	21.000
127	6.350	20.833	44.720	44.775	1.122	8.740	2.506	28.300
128	6.400	20.997	50.120	50.191	1.142	11.410	2.275	16.800
129	6.450	21.161	32.340	32.368	1.398	4.450	4.319	27.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	38.430	38.455	1.577	3.970	4.101	48.300
131	6.550	21.489	66.730	66.763	1.505	5.210	2.254	55.700
132	6.600	21.653	75.730	75.772	1.597	6.770	2.108	62.100
133	6.650	21.817	45.130	45.171	1.112	6.530	2.462	75.100
134	6.700	21.981	68.250	68.287	0.761	5.870	1.114	76.400
135	6.750	22.145	103.230	103.255	0.978	4.040	0.947	93.700
136	6.800	22.309	117.030	117.025	1.126	-0.770	0.962	83.600
137	6.850	22.473	123.440	123.431	1.257	-1.420	1.018	90.200
138	6.900	22.638	125.850	125.839	1.357	-1.810	1.078	88.300
139	6.950	22.802	124.950	124.939	1.430	-1.770	1.145	88.100
140	7.000	22.966	125.530	125.520	1.672	-1.650	1.332	86.000
141	7.050	23.130	104.330	104.320	2.254	-1.620	2.161	106.300
142	7.100	23.294	76.360	76.349	2.517	-1.820	3.297	92.800
143	7.150	23.458	66.940	66.927	2.186	-2.060	3.266	75.300
144	7.200	23.622	56.670	56.655	1.752	-2.410	3.092	77.100
145	7.250	23.786	37.320	37.294	1.136	-4.220	3.046	55.400
146	7.300	23.950	36.070	36.033	0.681	-5.890	1.890	56.500
147	7.350	24.114	32.590	32.631	0.385	6.630	1.180	43.100
148	7.400	24.278	32.300	32.358	0.391	9.290	1.208	26.700
149	7.450	24.442	48.820	48.866	0.567	7.380	1.160	24.100
150	7.500	24.606	61.180	61.240	1.382	9.600	2.257	26.000
151	7.550	24.770	77.400	77.456	1.765	8.910	2.279	26.000
152	7.600	24.934	31.750	31.798	1.872	7.700	5.887	21.600
153	7.650	25.098	39.000	39.054	1.723	8.600	4.412	29.800
154	7.700	25.262	45.030	45.090	1.062	9.550	2.355	40.000
155	7.750	25.426	82.260	82.319	1.230	9.420	1.494	40.300
156	7.800	25.590	83.480	83.535	1.275	8.810	1.526	59.500
157	7.850	25.754	59.440	59.513	1.477	11.690	2.482	67.600
158	7.900	25.918	40.120	40.198	1.478	12.490	3.677	80.900
159	7.950	26.082	46.420	46.504	1.463	13.440	3.146	90.800
160	8.000	26.246	86.590	86.679	1.539	14.280	1.776	90.700
161	8.050	26.410	105.130	105.195	2.424	10.390	2.304	75.900
162	8.100	26.574	93.440	93.490	2.694	8.080	2.882	88.600
163	8.150	26.739	76.850	76.898	2.602	7.710	3.384	87.200
164	8.200	26.903	82.260	82.319	2.384	9.520	2.896	90.000
165	8.250	27.067	94.410	94.472	2.109	10.000	2.232	90.700
166	8.300	27.231	87.170	87.225	2.256	8.750	2.586	87.800
167	8.350	27.395	77.450	77.497	1.841	7.460	2.376	63.400
168	8.400	27.559	25.430	25.458	1.218	4.550	4.784	76.800
169	8.450	27.723	42.370	42.455	0.606	13.690	1.427	66.400
170	8.500	27.887	29.360	29.433	0.597	11.680	2.028	56.900
171	8.550	28.051	33.980	34.052	0.737	11.510	2.164	43.900
172	8.600	28.215	43.530	43.592	0.725	9.940	1.663	51.000
173	8.650	28.379	52.910	52.980	0.757	11.230	1.429	46.000
174	8.700	28.543	31.990	32.062	0.965	11.460	3.010	55.000
175	8.750	28.707	69.480	69.550	1.190	11.180	1.711	68.100
176	8.800	28.871	73.740	73.814	1.581	11.930	2.142	68.300
177	8.850	29.035	78.270	78.355	2.193	13.590	2.799	65.900
178	8.900	29.199	80.370	80.458	2.435	14.160	3.026	52.400
179	8.950	29.363	250.460	250.566	1.714	17.050	0.684	49.400
180	9.000	29.527	334.920	335.013	1.396	14.850	0.417	44.300
181	9.050	29.691	254.440	254.522	1.260	13.090	0.495	35.300
182	9.100	29.855	178.100	178.177	1.855	12.280	1.041	46.400
183	9.150	30.019	120.830	120.898	2.221	10.840	1.837	35.000
184	9.200	30.183	98.930	99.004	2.019	11.850	2.039	38.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	77.660	77.730	1.984	11.160	2.552	36.700
186	9.300	30.511	45.670	45.742	1.617	11.480	3.535	33.600
187	9.350	30.675	39.110	39.179	1.751	11.010	4.469	32.900
188	9.400	30.840	37.880	37.951	1.209	11.440	3.186	28.600
189	9.450	31.004	26.490	26.565	0.989	12.090	3.723	28.900
190	9.500	31.168	17.980	18.052	0.907	11.520	5.024	21.600
191	9.550	31.332	64.390	64.465	0.799	12.080	1.239	33.600
192	9.600	31.496	69.570	69.639	0.885	11.130	1.271	42.700
193	9.650	31.660	51.600	51.668	1.092	10.970	2.113	56.200
194	9.700	31.824	24.540	24.601	0.833	9.840	3.386	55.800
195	9.750	31.988	17.420	17.494	0.389	11.780	2.224	74.800
196	9.800	32.152	21.770	21.855	0.428	13.690	1.958	78.000
197	9.850	32.316	25.630	25.705	0.602	12.080	2.342	86.400
198	9.900	32.480	29.010	29.101	0.729	14.510	2.505	96.600
199	9.950	32.644	29.870	29.960	0.693	14.400	2.313	96.700
200	10.000	32.808	27.880	27.969	0.643	14.190	2.299	92.000
201	10.050	32.972	22.130	22.217	0.517	13.970	2.327	95.100
202	10.100	33.136	18.610	18.699	0.463	14.250	2.476	90.400
203	10.150	33.300	20.720	20.811	0.401	14.510	1.927	86.000
204	10.200	33.464	23.650	23.739	0.343	14.290	1.445	98.400
205	10.250	33.628	23.160	23.249	0.331	14.260	1.424	90.000
206	10.300	33.792	18.700	18.789	0.313	14.210	1.666	92.900
207	10.350	33.956	14.970	15.058	0.287	14.020	1.906	69.200
208	10.400	34.120	12.450	12.538	0.252	14.140	2.010	60.800
209	10.450	34.284	8.260	8.349	0.245	14.270	2.934	56.900
210	10.500	34.448	10.110	10.196	0.367	13.770	3.599	40.700
211	10.550	34.612	24.050	24.130	0.348	12.850	1.442	38.700
212	10.600	34.776	42.290	42.369	0.266	12.730	0.628	33.400
213	10.650	34.941	53.970	54.047	0.451	12.360	0.834	30.600
214	10.700	35.105	73.370	73.453	0.842	13.220	1.146	31.800
215	10.750	35.269	64.090	64.185	0.994	15.170	1.549	35.600
216	10.800	35.433	26.710	26.808	1.106	15.740	4.126	31.700
217	10.850	35.597	22.150	22.252	0.918	16.330	4.125	32.800
218	10.900	35.761	21.010	21.124	0.870	18.270	4.119	43.700
219	10.950	35.925	22.050	22.188	1.035	22.170	4.665	65.200
220	11.000	36.089	15.280	15.405	0.856	20.040	5.557	48.500
221	11.050	36.253	191.280	191.402	1.503	19.530	0.785	63.700
222	11.100	36.417	253.460	253.547	2.976	13.940	1.174	56.400
223	11.150	36.581	249.420	249.508	3.651	14.060	1.463	62.900
224	11.200	36.745	236.140	236.224	4.695	13.380	1.988	86.400
225	11.250	36.909	191.520	191.595	4.339	12.030	2.265	86.000
226	11.300	37.073	121.400	121.463	3.945	10.120	3.248	77.300
227	11.350	37.237	66.010	66.071	2.685	9.730	4.064	66.200
228	11.400	37.401	40.590	40.648	2.338	9.240	5.752	57.700
229	11.450	37.565	39.690	39.747	1.686	9.170	4.242	54.900
230	11.500	37.729	25.860	25.923	1.048	10.100	4.043	58.200
231	11.550	37.893	34.490	34.558	0.935	10.890	2.706	60.100
232	11.600	38.057	41.410	41.483	0.985	11.650	2.374	55.100
233	11.650	38.221	28.730	28.796	0.843	10.540	2.928	50.700
234	11.700	38.385	26.790	26.853	0.643	10.140	2.394	31.800
235	11.750	38.549	27.670	27.733	0.724	10.070	2.611	38.500
236	11.800	38.713	29.120	29.185	0.704	10.490	2.412	32.100
237	11.850	38.877	46.090	46.162	0.724	11.520	1.568	39.700
238	11.900	39.042	22.340	22.413	0.649	11.720	2.896	35.600
239	11.950	39.206	32.150	32.228	0.690	12.550	2.141	44.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	30.240	30.329	0.832	14.310	2.743	59.100
241	12.050	39.534	34.180	34.264	0.662	13.480	1.932	56.700
242	12.100	39.698	46.630	46.713	0.590	13.330	1.263	67.900
243	12.150	39.862	56.720	56.804	0.431	13.390	0.759	67.500
244	12.200	40.026	60.240	60.323	0.514	13.280	0.852	68.100
245	12.250	40.190	54.620	54.703	0.640	13.340	1.170	55.800
246	12.300	40.354	46.970	47.053	0.868	13.250	1.845	64.100
247	12.350	40.518	38.730	38.812	0.789	13.130	2.033	54.600
248	12.400	40.682	56.440	56.524	1.249	13.470	2.210	39.200
249	12.450	40.846	50.140	50.227	1.492	13.930	2.971	44.600
250	12.500	41.010	29.680	29.779	1.554	15.870	5.218	48.300
251	12.550	41.174	31.040	31.144	1.321	16.680	4.242	48.700
252	12.600	41.338	32.040	32.141	1.351	16.140	4.203	64.100
253	12.650	41.502	27.810	27.918	1.406	17.300	5.036	69.500
254	12.700	41.666	78.280	78.393	1.814	18.140	2.314	72.100
255	12.750	41.830	121.770	121.879	2.244	17.440	1.841	76.800
256	12.800	41.994	124.400	124.505	3.097	16.790	2.487	70.300
257	12.850	42.158	109.010	109.098	2.642	14.080	2.422	56.400
258	12.900	42.322	114.200	114.279	3.281	12.620	2.871	53.100
259	12.950	42.486	119.270	119.351	3.622	12.950	3.035	38.200
260	13.000	42.650	102.800	102.887	3.752	13.900	3.647	48.800
261	13.050	42.814	65.980	66.110	2.697	20.850	4.080	47.600
262	13.100	42.978	40.280	40.404	1.866	19.820	4.618	69.700
263	13.150	43.143	29.850	29.970	1.250	19.200	4.171	59.700
264	13.200	43.307	27.170	27.300	1.117	20.860	4.092	64.600
265	13.250	43.471	35.880	36.015	1.159	21.560	3.218	55.300
266	13.300	43.635	34.890	35.026	1.149	21.840	3.280	85.400
267	13.350	43.799	42.210	42.347	1.388	22.010	3.278	74.500
268	13.400	43.963	49.500	49.634	1.451	21.450	2.923	73.100
269	13.450	44.127	70.590	70.728	1.937	22.110	2.739	55.600
270	13.500	44.291	77.740	77.873	2.270	21.240	2.915	37.400
271	13.550	44.455	70.950	71.069	2.285	19.110	3.215	29.400
272	13.600	44.619	55.340	55.483	2.136	22.960	3.850	35.900
273	13.650	44.783	45.670	45.809	1.761	22.290	3.844	36.400
274	13.700	44.947	28.850	28.984	1.244	21.540	4.292	38.900
275	13.750	45.111	11.270	11.403	0.931	21.300	8.165	30.800
276	13.800	45.275	14.630	14.762	0.619	21.150	4.193	36.100
277	13.850	45.439	21.920	22.052	0.562	21.070	2.549	61.500
278	13.900	45.603	22.200	22.330	0.559	20.750	2.503	65.100
279	13.950	45.767	19.030	19.156	0.695	20.110	3.628	74.700
280	14.000	45.931	16.760	16.887	0.591	20.410	3.500	72.600
281	14.050	46.095	32.820	32.949	0.583	20.720	1.769	72.700
282	14.100	46.259	52.090	52.221	0.719	21.000	1.377	68.200
283	14.150	46.423	54.030	54.160	1.036	20.880	1.913	65.600
284	14.200	46.587	42.080	42.207	1.208	20.310	2.862	40.700
285	14.250	46.751	47.850	47.975	1.109	20.070	2.312	34.500
286	14.300	46.915	92.720	92.845	0.905	20.100	0.975	32.200
287	14.350	47.079	83.920	84.046	2.238	20.180	2.663	26.800
288	14.400	47.244	80.100	80.228	2.206	20.550	2.750	26.300
289	14.450	47.408	32.620	32.767	2.243	23.620	6.845	36.000
290	14.500	47.572	50.830	50.980	1.302	24.080	2.554	30.500
291	14.550	47.736	75.660	75.809	1.550	23.880	2.045	34.200
292	14.600	47.900	44.880	45.025	1.404	23.200	3.118	40.700
293	14.650	48.064	42.950	43.092	0.983	22.720	2.281	49.300
294	14.700	48.228	47.290	47.429	0.512	22.320	1.080	46.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	52.980	53.119	0.523	22.270	0.985	54.500
296	14.800	48.556	52.420	52.559	0.584	22.250	1.111	53.300
297	14.850	48.720	39.370	39.508	0.736	22.040	1.863	54.000
298	14.900	48.884	32.400	32.537	0.618	21.870	1.899	67.500
299	14.950	49.048	29.270	29.409	0.834	22.300	2.836	64.000
300	15.000	49.212	54.120	54.269	1.363	23.790	2.512	78.100
301	15.050	49.376	52.210	52.357	1.441	23.540	2.752	69.800
302	15.100	49.540	88.450	88.602	1.515	24.410	1.710	79.200
303	15.150	49.704	139.820	139.968	2.223	23.630	1.588	86.900
304	15.200	49.868	132.170	132.311	2.630	22.560	1.988	71.000
305	15.250	50.032	96.030	96.165	2.675	21.580	2.782	58.400
306	15.300	50.196	63.020	63.150	2.328	20.800	3.686	40.400
307	15.350	50.360	48.670	48.797	1.995	20.310	4.088	32.500
308	15.400	50.524	44.710	44.836	1.804	20.230	4.024	20.900
309	15.450	50.688	35.010	35.135	1.802	20.070	5.129	27.500
310	15.500	50.852	43.960	44.085	1.394	20.100	3.162	24.400
311	15.550	51.016	29.960	30.088	1.251	20.500	4.158	27.600
312	15.600	51.180	18.140	18.273	0.739	21.330	4.044	22.000
313	15.650	51.345	79.290	79.421	1.198	21.050	1.508	20.400
314	15.700	51.509	115.660	115.785	1.344	20.060	1.161	20.400
315	15.750	51.673	51.390	51.505	1.823	18.490	3.539	17.400
316	15.800	51.837	41.040	41.160	2.058	19.270	5.000	16.000
317	15.850	52.001	60.970	61.092	2.546	19.530	4.167	11.800
318	15.900	52.165	58.050	58.180	2.960	20.790	5.088	21.200
319	15.950	52.329	69.410	69.572	2.719	25.890	3.908	13.900
320	16.000	52.493	77.030	77.205	2.915	28.060	3.776	24.300
321	16.050	52.657	64.650	64.818	2.398	26.930	3.700	17.500
322	16.100	52.821	51.310	51.473	2.030	26.120	3.944	31.600
323	16.150	52.985	44.090	44.247	1.513	25.080	3.419	41.500
324	16.200	53.149	34.720	34.881	1.450	25.780	4.157	45.000
325	16.250	53.313	27.430	27.608	1.197	28.450	4.336	50.600
326	16.300	53.477	25.610	25.807	1.071	31.510	4.150	78.900
327	16.350	53.641	45.480	45.682	0.888	32.280	1.944	72.000
328	16.400	53.805	46.100	46.311	1.172	33.820	2.531	78.900
329	16.450	53.969	36.550	36.745	1.314	31.290	3.576	63.600
330	16.500	54.133	40.350	40.546	1.243	31.370	3.066	72.800
331	16.550	54.297	46.140	46.333	1.571	30.940	3.391	62.500
332	16.600	54.461	39.010	39.191	1.699	29.050	4.335	61.300
333	16.650	54.625	32.510	32.695	1.479	29.710	4.524	65.200
334	16.700	54.789	40.180	40.390	1.201	33.680	2.973	75.900
335	16.750	54.953	73.150	73.363	1.227	34.110	1.673	90.500
336	16.800	55.117	94.010	94.205	1.795	31.290	1.905	87.200
337	16.850	55.281	94.940	95.121	2.195	29.050	2.308	90.900
338	16.900	55.446	93.710	93.884	2.797	27.910	2.979	80.500
339	16.950	55.610	84.170	84.342	2.700	27.620	3.201	98.500
340	17.000	55.774	98.550	98.731	2.578	28.920	2.611	89.800
341	17.050	55.938	124.640	124.816	2.645	28.120	2.119	86.400
342	17.100	56.102	106.100	106.268	2.715	26.930	2.555	69.700
343	17.150	56.266	67.060	67.224	2.644	26.230	3.933	56.500
344	17.200	56.430	47.840	48.001	1.930	25.860	4.021	43.800
345	17.250	56.594	24.200	24.362	1.578	25.940	6.477	26.500
346	17.300	56.758	43.110	43.276	1.605	26.610	3.709	24.500
347	17.350	56.922	53.700	53.869	1.698	27.140	3.152	19.400
348	17.400	57.086	68.840	69.012	2.532	27.580	3.669	15.700
349	17.450	57.250	124.330	124.506	3.825	28.250	3.072	13.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
350	17.500	57.414	86.810	86.984	3.997	27.810	4.595	14.000
351	17.550	57.578	84.350	84.536	3.328	29.850	3.937	16.200
352	17.600	57.742	71.680	71.857	2.412	28.280	3.357	17.600
353	17.650	57.906	41.700	41.870	1.460	27.270	3.487	20.500
354	17.700	58.070	52.980	53.145	1.729	26.440	3.253	18.200
355	17.750	58.234	34.770	34.937	0.964	26.800	2.759	14.900
356	17.800	58.398	65.710	65.878	1.389	26.850	2.108	20.900
357	17.850	58.562	44.660	44.824	1.312	26.260	2.927	19.100
358	17.900	58.726	33.470	33.634	1.555	26.270	4.623	36.900
359	17.950	58.890	42.160	42.325	2.125	26.360	5.021	40.100
360	18.000	59.054	57.420	57.587	2.866	26.780	4.977	50.400
361	18.050	59.218	149.510	149.678	2.146	26.900	1.434	65.300
362	18.100	59.382	115.620	115.788	2.483	26.890	2.144	77.300
363	18.150	59.547	156.310	156.452	3.129	22.690	2.000	83.500
364	18.200	59.711	147.670	147.812	3.244	22.700	2.195	95.100
365	18.250	59.875	131.870	132.005	3.591	21.570	2.720	98.600
366	18.300	60.039	95.220	95.340	3.397	19.150	3.563	0.000
367	18.350	60.203	72.210	72.318	2.552	17.380	3.529	0.000
368	18.400	60.367	49.340	49.440	1.598	16.000	3.232	0.000
369	18.450	60.531	35.040	35.138	1.210	15.730	3.444	0.000
370	18.500	60.695	25.310	25.410	0.812	15.960	3.196	0.000
371	18.550	60.859	40.730	40.832	0.890	16.350	2.180	0.000
372	18.600	61.023	48.900	49.011	1.007	17.810	2.055	0.000
373	18.650	61.187	79.870	79.978	1.467	17.320	1.834	0.000
374	18.700	61.351	54.710	54.817	1.694	17.160	3.090	0.000
375	18.750	61.515	41.240	41.348	2.088	17.230	5.050	0.000
376	18.800	61.679	35.180	35.299	1.553	19.000	4.400	0.000
377	18.850	61.843	62.380	62.499	1.705	19.090	2.728	0.000
378	18.900	62.007	68.250	68.371	2.403	19.360	3.515	0.000
379	18.950	62.171	55.920	56.041	4.114	19.320	7.341	0.000
380	19.000	62.335	66.960	67.089	3.966	20.740	5.912	0.000
381	19.050	62.499	174.220	174.352	0.000	21.090	0.000	0.000
382	19.100	62.663	311.080	311.224	0.000	23.050	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221600
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	13:50
CPT File:	13-53075_GP13-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722252.874
Northing / Lat:	4294381.774
Elevation:	143.416
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.290	1.291	0.001	0.140	0.077	30.300
2	0.100	0.328	11.880	11.890	0.001	1.650	0.008	38.900
3	0.150	0.492	45.630	45.639	0.035	1.520	0.077	35.300
4	0.200	0.656	65.820	65.839	0.159	3.110	0.241	36.800
5	0.250	0.820	86.840	86.859	0.498	3.090	0.573	54.200
6	0.300	0.984	72.070	72.104	0.458	5.410	0.635	49.300
7	0.350	1.148	60.260	60.295	0.502	5.640	0.833	52.800
8	0.400	1.312	135.660	135.676	2.486	2.600	1.832	65.500
9	0.450	1.476	74.160	74.183	1.952	3.620	2.631	60.000
10	0.500	1.640	108.740	108.741	1.453	0.100	1.336	63.500
11	0.550	1.804	78.090	78.112	1.244	3.530	1.593	64.200
12	0.600	1.968	93.840	93.838	1.543	-0.330	1.644	72.300
13	0.650	2.133	96.610	96.657	1.732	7.560	1.792	63.400
14	0.700	2.297	88.280	88.385	1.440	16.860	1.629	67.600
15	0.750	2.461	107.970	108.039	3.024	11.060	2.799	68.600
16	0.800	2.625	96.690	96.712	1.202	3.550	1.243	61.000
17	0.850	2.789	124.080	124.090	0.622	1.620	0.501	59.300
18	0.900	2.953	178.980	178.986	1.722	0.900	0.962	51.000
19	0.950	3.117	302.980	302.984	1.767	0.620	0.583	55.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	189.840	189.845	1.539	0.870	0.811	47.400
21	1.050	3.445	147.850	147.855	2.019	0.850	1.366	50.400
22	1.100	3.609	124.420	124.420	1.185	-0.080	0.952	49.800
23	1.150	3.773	165.490	165.500	0.874	1.530	0.528	45.200
24	1.200	3.937	199.690	199.690	0.949	0.050	0.475	52.200
25	1.250	4.101	184.060	184.060	1.503	0.030	0.817	49.300
26	1.300	4.265	104.880	104.876	2.422	-0.660	2.309	54.400
27	1.350	4.429	66.400	66.400	2.732	-0.020	4.114	57.800
28	1.400	4.593	53.990	53.997	0.891	1.080	1.650	69.400
29	1.450	4.757	31.790	31.817	0.860	4.400	2.703	74.100
30	1.500	4.921	36.530	36.588	0.639	9.310	1.746	80.100
31	1.550	5.085	180.550	180.549	0.678	-0.230	0.376	90.400
32	1.600	5.249	70.610	70.613	0.766	0.470	1.085	89.800
33	1.650	5.413	48.400	48.402	0.997	0.330	2.060	87.100
34	1.700	5.577	42.700	42.719	1.019	3.010	2.385	93.700
35	1.750	5.741	42.880	42.877	1.035	-0.440	2.414	95.900
36	1.800	5.905	46.660	46.673	1.049	2.090	2.248	88.200
37	1.850	6.069	47.910	47.904	1.048	-0.950	2.188	90.600
38	1.900	6.234	48.900	48.906	1.175	0.970	2.403	103.000
39	1.950	6.398	45.010	45.015	1.184	0.810	2.630	99.100
40	2.000	6.562	37.330	37.413	1.233	13.350	3.296	86.800
41	2.050	6.726	36.880	37.095	1.231	34.390	3.319	90.600
42	2.100	6.890	45.900	45.928	1.358	4.430	2.957	86.700
43	2.150	7.054	55.090	55.132	1.418	6.700	2.572	94.600
44	2.200	7.218	74.880	75.000	1.508	19.300	2.011	87.800
45	2.250	7.382	86.080	86.100	1.556	3.140	1.807	83.200
46	2.300	7.546	80.600	80.621	1.435	3.290	1.780	92.900
47	2.350	7.710	66.530	66.509	1.216	-3.380	1.828	70.400
48	2.400	7.874	50.720	50.681	0.963	-6.250	1.900	71.000
49	2.450	8.038	34.210	34.175	0.678	-5.550	1.984	69.200
50	2.500	8.202	30.970	30.967	0.563	-0.420	1.818	63.800
51	2.550	8.366	30.920	30.921	0.497	0.090	1.607	62.200
52	2.600	8.530	14.390	14.426	0.473	5.710	3.279	63.500
53	2.650	8.694	12.860	12.854	0.455	-0.950	3.540	68.200
54	2.700	8.858	10.560	10.558	0.404	-0.350	3.827	74.700
55	2.750	9.022	10.540	10.615	0.431	12.070	4.060	80.900
56	2.800	9.186	10.930	10.980	0.526	7.960	4.791	75.800
57	2.850	9.350	12.560	12.592	0.545	5.190	4.328	95.800
58	2.900	9.514	29.450	29.513	0.538	10.020	1.823	87.000
59	2.950	9.678	47.540	47.589	0.735	7.890	1.544	92.600
60	3.000	9.842	19.820	19.843	0.807	3.750	4.067	84.300
61	3.050	10.006	13.440	13.481	0.662	6.600	4.911	75.100
62	3.100	10.170	15.300	15.289	0.369	-1.710	2.413	54.100
63	3.150	10.335	21.790	21.774	0.555	-2.500	2.549	46.500
64	3.200	10.499	19.590	19.580	0.682	-1.600	3.483	30.600
65	3.250	10.663	13.530	13.524	0.913	-0.960	6.751	29.300
66	3.300	10.827	45.030	45.009	1.257	-3.370	2.793	27.000
67	3.350	10.991	55.560	55.623	1.093	10.060	1.965	21.100
68	3.400	11.155	80.570	80.577	1.303	1.170	1.617	15.600
69	3.450	11.319	87.680	87.689	1.312	1.430	1.496	18.600
70	3.500	11.483	34.840	34.853	1.055	2.150	3.027	11.500
71	3.550	11.647	25.490	25.497	1.203	1.100	4.718	18.700
72	3.600	11.811	40.080	40.082	0.914	0.260	2.280	20.700
73	3.650	11.975	37.250	37.340	1.131	14.470	3.029	17.600
74	3.700	12.139	29.040	29.069	0.982	4.720	3.378	19.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	22.520	22.532	0.638	1.980	2.831	28.700
76	3.800	12.467	21.460	21.493	0.617	5.260	2.871	35.700
77	3.850	12.631	23.340	23.363	0.656	3.680	2.808	45.200
78	3.900	12.795	13.590	13.919	0.458	52.770	3.290	62.700
79	3.950	12.959	26.160	26.456	0.454	47.400	1.716	64.300
80	4.000	13.123	49.850	49.931	0.651	12.960	1.304	50.400
81	4.050	13.287	25.710	25.752	0.748	6.720	2.905	41.400
82	4.100	13.451	20.780	20.768	0.623	-1.900	3.000	35.100
83	4.150	13.615	19.330	19.345	0.404	2.360	2.088	37.700
84	4.200	13.779	31.200	31.205	0.300	0.730	0.961	40.800
85	4.250	13.943	52.260	52.287	0.606	4.310	1.159	33.700
86	4.300	14.107	116.680	116.695	1.018	2.380	0.872	43.200
87	4.350	14.271	115.790	115.823	1.448	5.300	1.250	54.800
88	4.400	14.436	125.690	125.695	1.930	0.750	1.535	80.300
89	4.450	14.600	69.120	69.128	1.699	1.350	2.458	110.300
90	4.500	14.764	56.170	56.185	1.688	2.460	3.004	132.300
91	4.550	14.928	44.560	44.572	1.452	1.910	3.258	185.800
92	4.600	15.092	35.620	35.659	1.081	6.290	3.031	288.200
93	4.650	15.256	19.880	19.901	1.042	3.380	5.236	415.200
94	4.700	15.420	76.650	76.617	1.423	-5.280	1.857	471.700
95	4.750	15.584	105.120	105.069	1.665	-8.100	1.585	464.200
96	4.800	15.748	107.890	107.849	1.972	-6.510	1.828	439.300
97	4.850	15.912	130.240	130.143	1.984	-15.480	1.524	430.600
98	4.900	16.076	111.430	111.342	1.612	-14.050	1.448	360.900
99	4.950	16.240	59.190	59.108	1.327	-13.070	2.245	301.200
100	5.000	16.404	35.300	35.210	1.088	-14.410	3.090	183.600
101	5.050	16.568	24.870	24.793	1.068	-12.360	4.308	149.800
102	5.100	16.732	22.190	22.093	1.006	-15.520	4.553	103.900
103	5.150	16.896	27.340	27.262	0.879	-12.540	3.224	106.300
104	5.200	17.060	28.060	28.021	0.714	-6.180	2.548	106.700
105	5.250	17.224	13.030	13.082	0.580	8.370	4.433	91.300
106	5.300	17.388	14.290	14.344	0.481	8.660	3.353	89.400
107	5.350	17.552	14.320	14.367	0.563	7.470	3.919	86.000
108	5.400	17.716	13.660	13.698	0.688	6.070	5.023	76.800
109	5.450	17.880	13.500	13.481	0.685	-3.040	5.081	57.700
110	5.500	18.044	19.680	19.669	0.656	-1.700	3.335	47.800
111	5.550	18.208	27.670	27.664	0.796	-0.980	2.877	28.900
112	5.600	18.372	30.260	30.265	0.725	0.750	2.396	28.800
113	5.650	18.537	45.030	45.029	0.786	-0.110	1.746	23.900
114	5.700	18.701	44.770	44.782	0.742	1.970	1.657	23.000
115	5.750	18.865	40.350	40.340	0.891	-1.560	2.209	16.600
116	5.800	19.029	24.790	24.832	0.974	6.720	3.922	17.100
117	5.850	19.193	17.990	18.001	0.861	1.790	4.783	19.500
118	5.900	19.357	8.070	8.081	0.601	1.730	7.437	27.000
119	5.950	19.521	12.430	12.431	0.515	0.150	4.143	36.600
120	6.000	19.685	26.690	26.701	0.529	1.700	1.981	0.000
121	6.050	19.849	35.960	35.959	0.803	-0.180	2.233	0.000
122	6.100	20.013	43.280	43.271	0.715	-1.390	1.652	0.000
123	6.150	20.177	14.120	14.222	0.678	16.390	4.767	0.000
124	6.200	20.341	20.110	20.293	0.675	29.250	3.326	0.000
125	6.250	20.505	17.690	17.716	0.680	4.120	3.838	0.000
126	6.300	20.669	16.680	16.731	0.753	8.140	4.501	0.000
127	6.350	20.833	14.340	14.372	0.689	5.110	4.794	0.000
128	6.400	20.997	12.190	12.224	0.653	5.500	5.342	0.000
129	6.450	21.161	10.150	10.194	0.557	7.030	5.464	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	7.550	7.584	0.459	5.430	6.052	0.000
131	6.550	21.489	13.690	13.617	0.441	-11.620	3.238	0.000
132	6.600	21.653	21.920	21.917	0.431	-0.520	1.967	0.000
133	6.650	21.817	26.620	26.620	0.354	0.080	1.330	0.000
134	6.700	21.981	16.310	16.335	0.000	4.030	0.000	0.000
135	6.750	22.145	33.270	33.279	0.000	1.410	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221602
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-2A
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	14:46
CPT File:	13-53075_GP13-2A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722255.625
Northing / Lat:	4294374.852
Elevation:	143.681
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	13.190	13.191	0.020	0.200	0.152	28.800
2	0.100	0.328	22.540	22.542	0.043	0.270	0.191	29.800
3	0.150	0.492	30.310	30.312	0.042	0.340	0.139	43.200
4	0.200	0.656	33.600	33.602	0.067	0.300	0.199	36.700
5	0.250	0.820	37.600	37.607	0.067	1.100	0.178	34.600
6	0.300	0.984	35.110	35.112	0.188	0.330	0.535	41.400
7	0.350	1.148	36.670	36.675	0.198	0.820	0.540	50.500
8	0.400	1.312	37.940	37.954	0.537	2.170	1.415	52.100
9	0.450	1.476	47.940	47.944	0.427	0.690	0.891	51.600
10	0.500	1.640	45.120	45.123	0.310	0.490	0.687	52.700
11	0.550	1.804	54.460	54.462	0.611	0.280	1.122	51.500
12	0.600	1.968	65.210	65.212	1.236	0.260	1.895	52.300
13	0.650	2.133	98.380	98.403	1.449	3.630	1.473	51.800
14	0.700	2.297	146.970	146.994	0.983	3.860	0.669	0.000
15	0.750	2.461	71.460	71.455	1.047	-0.820	1.465	0.000
16	0.800	2.625	43.480	43.482	0.799	0.270	1.838	0.000
17	0.850	2.789	20.700	20.701	1.944	0.160	9.391	0.000
18	0.900	2.953	16.570	16.573	1.468	0.420	8.858	0.000
19	0.950	3.117	63.830	63.833	0.898	0.540	1.407	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	33.720	33.723	1.761	0.480	5.222	0.000
21	1.050	3.445	23.720	23.722	8.179	0.370	34.478	0.000
22	1.100	3.609	13.960	13.963	6.021	0.560	43.120	0.000
23	1.150	3.773	217.850	217.854	3.285	0.640	1.508	0.000
24	1.200	3.937	144.990	144.992	3.910	0.310	2.697	0.000
25	1.250	4.101	262.990	262.992	3.844	0.310	1.462	0.000
26	1.300	4.265	397.160	397.161	3.560	0.220	0.896	0.000
27	1.350	4.429	435.990	435.991	3.613	0.160	0.829	0.000
28	1.400	4.593	444.700	444.701	0.000	0.110	0.000	0.000
29	1.450	4.757	480.930	480.931	0.000	0.140	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221601
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	13:51
CPT File:	13-53075_GP13-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722254.367
Northing / Lat:	4294375.325
Elevation:	143.613
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	17.240	17.247	0.005	1.170	0.029	27.000
2	0.100	0.328	36.810	36.817	0.003	1.130	0.008	30.200
3	0.150	0.492	51.270	51.283	0.084	2.010	0.164	33.300
4	0.200	0.656	65.690	65.696	0.088	0.960	0.134	32.400
5	0.250	0.820	97.430	97.448	0.151	2.840	0.155	41.500
6	0.300	0.984	91.510	91.524	0.257	2.230	0.281	38.900
7	0.350	1.148	79.730	79.751	0.776	3.330	0.973	0.000
8	0.400	1.312	61.470	61.487	2.762	2.750	4.492	0.000
9	0.450	1.476	97.530	97.582	4.241	8.250	4.346	0.000
10	0.500	1.640	297.060	297.060	3.873	-0.070	1.304	0.000
11	0.550	1.804	262.800	262.801	1.713	0.110	0.652	0.000
12	0.600	1.968	253.390	253.399	1.287	1.520	0.508	0.000
13	0.650	2.133	120.730	120.760	1.170	4.830	0.969	0.000
14	0.700	2.297	77.480	77.496	0.723	2.640	0.933	0.000
15	0.750	2.461	66.550	66.559	0.844	1.380	1.268	0.000
16	0.800	2.625	59.610	59.622	0.750	1.920	1.258	0.000
17	0.850	2.789	78.320	78.318	1.113	-0.300	1.421	0.000
18	0.900	2.953	74.920	74.922	1.929	0.270	2.575	0.000
19	0.950	3.117	94.020	94.033	2.054	2.030	2.184	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	104.980	104.998	0.554	2.880	0.528	0.000
21	1.050	3.445	55.910	55.912	3.154	0.280	5.641	0.000
22	1.100	3.609	42.050	42.054	3.207	0.580	7.626	0.000
23	1.150	3.773	443.010	443.011	0.000	0.180	0.000	0.000
24	1.200	3.937	480.970	480.969	0.000	-0.240	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221604
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	15:04
CPT File:	13-53075_GP13-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722258.160
Northing / Lat:	4294370.810
Elevation:	143.810
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	19.420	19.437	0.016	2.790	0.082	32.100
2	0.100	0.328	34.110	34.131	0.079	3.440	0.231	28.700
3	0.150	0.492	44.860	44.864	0.257	0.590	0.573	33.300
4	0.200	0.656	51.270	51.315	0.254	7.260	0.495	33.600
5	0.250	0.820	47.870	47.861	0.307	-1.420	0.641	36.200
6	0.300	0.984	46.240	46.241	0.230	0.140	0.497	40.900
7	0.350	1.148	48.080	48.111	0.243	5.000	0.505	41.800
8	0.400	1.312	66.530	66.552	0.208	3.570	0.313	42.000
9	0.450	1.476	26.090	26.124	0.290	5.370	1.110	41.700
10	0.500	1.640	27.140	27.151	0.637	1.830	2.346	0.000
11	0.550	1.804	50.270	50.298	1.259	4.430	2.503	0.000
12	0.600	1.968	51.830	51.885	1.730	8.870	3.334	0.000
13	0.650	2.133	108.570	108.772	1.582	32.320	1.454	0.000
14	0.700	2.297	227.260	227.388	3.156	20.460	1.388	0.000
15	0.750	2.461	175.730	175.782	4.656	8.360	2.649	0.000
16	0.800	2.625	171.740	171.784	0.901	7.110	0.524	0.000
17	0.850	2.789	223.410	223.438	1.077	4.490	0.482	0.000
18	0.900	2.953	138.680	138.695	0.946	2.410	0.682	0.000
19	0.950	3.117	115.900	115.909	0.477	1.380	0.412	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	86.520	86.524	1.730	0.720	1.999	0.000
21	1.050	3.445	71.230	71.227	0.544	-0.430	0.764	0.000
22	1.100	3.609	84.910	84.925	1.287	2.360	1.515	0.000
23	1.150	3.773	82.860	82.912	1.041	8.250	1.256	0.000
24	1.200	3.937	390.910	390.915	0.000	0.730	0.000	0.000
25	1.250	4.101	424.430	424.437	0.000	1.200	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221605
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-4
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-21-2013
CPT Time:	15:51
CPT File:	13-53075_GP13-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722264.110
Northing / Lat:	4294356.380
Elevation:	144.370
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.840	2.835	0.088	-0.810	3.104	0.000
2	0.100	0.328	30.690	30.685	0.157	-0.850	0.512	0.000
3	0.150	0.492	54.400	54.398	0.342	-0.370	0.629	0.000
4	0.200	0.656	43.020	43.016	0.493	-0.590	1.146	0.000
5	0.250	0.820	34.390	34.388	0.721	-0.380	2.097	0.000
6	0.300	0.984	32.310	32.305	1.160	-0.780	3.591	0.000
7	0.350	1.148	33.040	33.029	0.938	-1.710	2.840	0.000
8	0.400	1.312	38.270	38.267	1.271	-0.510	3.321	0.000
9	0.450	1.476	54.200	54.190	2.409	-1.570	4.445	0.000
10	0.500	1.640	73.920	73.908	1.950	-1.980	2.638	0.000
11	0.550	1.804	176.220	176.215	8.333	-0.860	4.729	0.000
12	0.600	1.968	56.190	56.139	8.810	-8.230	15.693	0.000
13	0.650	2.133	379.480	379.477	0.000	-0.550	0.000	0.000
14	0.700	2.297	442.370	442.366	0.000	-0.600	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221607
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-4S
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-03-2014
CPT Time:	11:32
CPT File:	13-53075_GP13-4S.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722263.830
Northing / Lat:	4294356.770
Elevation:	144.400
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	3.900	3.975	0.012	11.970	0.302	49.600
2	0.100	0.328	4.080	4.116	0.012	5.710	0.292	46.400
3	0.150	0.492	4.010	4.030	0.013	3.210	0.323	50.600
4	0.200	0.656	3.970	3.984	0.013	2.170	0.326	66.700
5	0.250	0.820	3.980	3.989	0.030	1.420	0.752	69.300
6	0.300	0.984	3.710	3.718	0.045	1.270	1.210	62.100
7	0.350	1.148	6.080	6.108	0.026	4.520	0.426	59.700
8	0.400	1.312	4.680	4.705	0.029	3.950	0.616	69.700
9	0.450	1.476	5.290	5.309	0.019	3.020	0.358	65.300
10	0.500	1.640	5.010	5.014	0.014	0.620	0.279	57.600
11	0.550	1.804	4.580	4.592	0.016	1.870	0.348	54.900
12	0.600	1.968	2.930	2.939	0.019	1.460	0.646	55.400
13	0.650	2.133	2.650	2.654	0.011	0.580	0.415	48.000
14	0.700	2.297	2.380	2.382	0.008	0.280	0.336	41.600
15	0.750	2.461	2.510	2.512	0.007	0.380	0.279	51.800
16	0.800	2.625	2.270	2.272	0.006	0.290	0.264	51.900
17	0.850	2.789	2.330	2.332	0.007	0.360	0.300	38.700
18	0.900	2.953	2.670	2.672	0.011	0.400	0.412	36.000
19	0.950	3.117	2.470	2.473	0.010	0.470	0.404	47.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	3.040	3.043	0.010	0.540	0.329	44.100
21	1.050	3.445	3.290	3.293	0.011	0.460	0.334	52.900
22	1.100	3.609	3.580	3.584	0.014	0.580	0.391	43.100
23	1.150	3.773	3.780	3.785	0.016	0.760	0.423	57.700
24	1.200	3.937	4.390	4.395	0.016	0.730	0.364	56.600
25	1.250	4.101	5.270	5.275	0.016	0.870	0.303	58.100
26	1.300	4.265	6.270	6.278	0.026	1.320	0.414	52.000
27	1.350	4.429	5.130	5.150	0.032	3.220	0.621	50.700
28	1.400	4.593	6.840	6.860	0.036	3.220	0.525	49.300
29	1.450	4.757	8.150	8.168	0.036	2.860	0.441	55.800
30	1.500	4.921	11.000	11.017	0.042	2.690	0.381	54.200
31	1.550	5.085	8.170	8.181	0.045	1.820	0.550	46.700
32	1.600	5.249	7.580	7.589	0.045	1.470	0.593	47.200
33	1.650	5.413	6.460	6.466	0.035	1.020	0.541	49.800
34	1.700	5.577	6.430	6.435	0.033	0.750	0.513	44.800
35	1.750	5.741	6.080	6.084	0.041	0.590	0.674	43.300
36	1.800	5.905	6.440	6.444	0.049	0.650	0.760	44.400
37	1.850	6.069	8.200	8.206	0.047	0.980	0.573	37.300
38	1.900	6.234	9.510	9.516	0.038	1.040	0.399	48.200
39	1.950	6.398	10.100	10.106	0.029	1.040	0.287	44.700
40	2.000	6.562	10.140	10.145	0.036	0.770	0.355	38.400
41	2.050	6.726	10.150	10.155	0.038	0.850	0.374	41.600
42	2.100	6.890	8.740	8.744	0.037	0.570	0.423	51.300
43	2.150	7.054	7.080	7.081	0.034	0.120	0.480	59.700
44	2.200	7.218	5.440	5.439	0.036	-0.150	0.662	63.600
45	2.250	7.382	4.160	4.159	0.037	-0.190	0.890	69.500
46	2.300	7.546	3.700	3.699	0.026	-0.220	0.703	56.500
47	2.350	7.710	3.560	3.564	0.020	0.690	0.561	78.400
48	2.400	7.874	3.410	3.416	0.016	0.900	0.468	86.700
49	2.450	8.038	3.580	3.585	0.012	0.790	0.335	74.000
50	2.500	8.202	3.310	3.313	0.016	0.560	0.483	74.700
51	2.550	8.366	2.870	2.874	0.016	0.640	0.557	78.900
52	2.600	8.530	3.030	3.034	0.029	0.660	0.956	70.900
53	2.650	8.694	3.110	3.113	0.106	0.540	3.405	74.200
54	2.700	8.858	4.930	4.944	0.159	2.310	3.216	78.000
55	2.750	9.022	20.810	20.837	0.305	4.330	1.464	75.100
56	2.800	9.186	37.410	37.447	0.565	5.850	1.509	63.400
57	2.850	9.350	41.510	41.544	0.920	5.500	2.215	58.600
58	2.900	9.514	37.080	37.174	0.967	15.090	2.601	47.400
59	2.950	9.678	21.950	21.956	0.775	0.900	3.530	49.400
60	3.000	9.842	13.970	14.013	0.680	6.880	4.853	34.400
61	3.050	10.006	22.320	22.356	0.410	5.730	1.834	23.900
62	3.100	10.170	27.790	27.832	0.530	6.700	1.904	21.200
63	3.150	10.335	13.960	13.951	0.516	-1.430	3.699	19.200
64	3.200	10.499	19.070	19.061	0.366	-1.520	1.920	17.000
65	3.250	10.663	20.550	20.570	0.209	3.190	1.016	33.600
66	3.300	10.827	15.860	15.899	0.284	6.300	1.786	43.600
67	3.350	10.991	30.200	30.221	0.505	3.440	1.671	47.700
68	3.400	11.155	13.860	13.822	0.542	-6.150	3.921	58.600
69	3.450	11.319	8.270	8.343	0.528	11.630	6.329	65.800
70	3.500	11.483	13.110	13.124	0.371	2.310	2.827	72.700
71	3.550	11.647	8.380	8.405	0.374	4.010	4.450	79.300
72	3.600	11.811	8.000	8.137	0.415	21.870	5.100	98.100
73	3.650	11.975	42.800	42.967	0.751	26.680	1.748	92.700
74	3.700	12.139	80.240	80.299	1.063	9.490	1.324	85.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	73.660	73.689	1.170	4.680	1.588	88.100
76	3.800	12.467	55.390	55.385	1.192	-0.880	2.152	83.900
77	3.850	12.631	40.090	40.063	1.024	-4.350	2.556	88.900
78	3.900	12.795	26.920	26.886	0.930	-5.370	3.459	72.900
79	3.950	12.959	18.050	18.009	0.607	-6.560	3.371	57.400
80	4.000	13.123	31.300	31.233	0.328	-10.680	1.050	53.500
81	4.050	13.287	54.630	54.633	0.197	0.450	0.361	45.500
82	4.100	13.451	66.460	66.464	0.489	0.670	0.736	40.300
83	4.150	13.615	44.290	44.303	0.431	2.160	0.973	31.800
84	4.200	13.779	21.870	21.885	0.645	2.440	2.947	29.300
85	4.250	13.943	20.600	20.618	0.449	2.820	2.178	28.500
86	4.300	14.107	12.580	12.579	0.308	-0.200	2.449	25.000
87	4.350	14.271	16.640	16.670	0.274	4.880	1.644	24.300
88	4.400	14.436	17.410	17.434	0.360	3.880	2.065	31.500
89	4.450	14.600	18.000	18.023	0.265	3.620	1.470	23.900
90	4.500	14.764	14.250	14.283	0.253	5.270	1.771	28.700
91	4.550	14.928	33.760	33.768	0.496	1.210	1.469	32.500
92	4.600	15.092	31.770	31.779	0.551	1.520	1.734	38.200
93	4.650	15.256	14.380	14.405	0.571	4.080	3.964	56.700
94	4.700	15.420	13.610	13.620	0.488	1.600	3.583	58.300
95	4.750	15.584	26.260	26.284	0.874	3.780	3.325	65.900
96	4.800	15.748	50.250	50.231	0.726	-3.060	1.445	76.200
97	4.850	15.912	65.340	65.281	1.363	-9.450	2.088	74.500
98	4.900	16.076	85.750	85.710	1.549	-6.360	1.807	66.800
99	4.950	16.240	66.750	66.707	1.356	-6.880	2.033	63.100
100	5.000	16.404	57.340	57.283	1.428	-9.150	2.493	45.100
101	5.050	16.568	49.430	49.365	1.131	-10.460	2.291	43.000
102	5.100	16.732	51.970	51.915	0.847	-8.780	1.632	30.900
103	5.150	16.896	24.080	24.108	0.649	4.490	2.692	27.200
104	5.200	17.060	37.020	37.009	0.696	-1.690	1.881	22.200
105	5.250	17.224	44.830	44.852	0.572	3.450	1.275	23.300
106	5.300	17.388	24.310	24.361	1.031	8.190	4.232	14.600
107	5.350	17.552	23.070	23.160	0.844	14.390	3.644	9.100
108	5.400	17.716	22.720	22.803	0.373	13.370	1.636	12.500
109	5.450	17.880	24.670	24.670	0.574	-0.060	2.327	9.300
110	5.500	18.044	29.050	29.130	0.497	12.760	1.706	13.400
111	5.550	18.208	24.610	24.699	0.600	14.210	2.429	13.400
112	5.600	18.372	27.740	27.761	0.598	3.310	2.154	13.300
113	5.650	18.537	42.970	43.006	0.513	5.810	1.193	15.400
114	5.700	18.701	21.520	21.527	0.529	1.180	2.457	12.200
115	5.750	18.865	9.360	9.362	0.421	0.380	4.497	13.700
116	5.800	19.029	10.010	10.017	0.316	1.140	3.155	10.700
117	5.850	19.193	28.910	28.912	0.498	0.370	1.722	10.200
118	5.900	19.357	46.090	46.089	0.965	-0.240	2.094	11.200
119	5.950	19.521	51.380	51.377	1.507	-0.500	2.933	15.600
120	6.000	19.685	90.590	90.587	1.814	-0.550	2.003	22.300
121	6.050	19.849	31.860	31.864	1.573	0.690	4.937	25.700
122	6.100	20.013	12.400	12.406	1.028	1.040	8.286	30.100
123	6.150	20.177	15.520	15.533	0.649	2.130	4.178	39.600
124	6.200	20.341	10.200	10.200	0.512	-0.010	5.020	60.500
125	6.250	20.505	9.190	9.206	0.513	2.600	5.572	68.500
126	6.300	20.669	31.820	31.888	0.687	10.910	2.154	79.600
127	6.350	20.833	53.200	53.362	1.138	25.910	2.133	69.400
128	6.400	20.997	59.220	59.249	1.306	4.690	2.204	87.300
129	6.450	21.161	55.190	55.255	1.666	10.410	3.015	55.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	57.630	57.663	1.623	5.270	2.815	62.200
131	6.550	21.489	58.100	58.112	1.688	1.850	2.905	41.600
132	6.600	21.653	80.560	80.563	1.949	0.440	2.419	40.700
133	6.650	21.817	78.050	78.058	2.229	1.290	2.856	40.600
134	6.700	21.981	48.230	48.244	2.195	2.230	4.550	37.400
135	6.750	22.145	25.450	25.487	1.447	5.900	5.677	42.200
136	6.800	22.309	23.320	23.356	0.999	5.690	4.277	28.900
137	6.850	22.473	24.290	24.414	0.958	19.810	3.924	23.900
138	6.900	22.638	19.510	19.614	0.930	16.680	4.741	16.800
139	6.950	22.802	15.820	15.966	1.017	23.340	6.370	17.300
140	7.000	22.966	33.800	33.899	1.087	15.910	3.207	19.300
141	7.050	23.130	23.120	23.227	0.866	17.080	3.728	20.400
142	7.100	23.294	39.340	39.457	1.144	18.710	2.899	19.800
143	7.150	23.458	36.050	36.081	1.405	4.910	3.894	15.500
144	7.200	23.622	27.210	27.243	1.281	5.270	4.702	9.100
145	7.250	23.786	31.670	31.739	1.319	11.010	4.156	13.300
146	7.300	23.950	50.100	50.168	1.409	10.880	2.809	3.200
147	7.350	24.114	62.820	62.836	1.260	2.590	2.005	6.000
148	7.400	24.278	120.960	120.995	0.735	5.530	0.607	13.500
149	7.450	24.442	201.210	201.219	2.347	1.520	1.166	9.800
150	7.500	24.606	106.310	106.332	2.847	3.460	2.677	18.000
151	7.550	24.770	59.650	59.668	3.065	2.940	5.137	16.700
152	7.600	24.934	34.320	34.347	1.158	4.390	3.371	19.000
153	7.650	25.098	50.770	50.809	1.373	6.290	2.702	24.900
154	7.700	25.262	64.980	65.051	1.634	11.420	2.512	36.300
155	7.750	25.426	36.210	36.224	1.237	2.210	3.415	32.000
156	7.800	25.590	70.190	70.233	0.990	6.930	1.410	29.000
157	7.850	25.754	100.180	100.180	1.202	0.000	1.200	43.200
158	7.900	25.918	104.990	105.006	1.769	2.550	1.685	37.300
159	7.950	26.082	120.990	121.091	2.247	16.100	1.856	47.900
160	8.000	26.246	80.200	80.252	2.085	8.290	2.598	49.100
161	8.050	26.410	30.350	30.491	1.192	22.600	3.909	57.200
162	8.100	26.574	79.760	79.861	1.248	16.120	1.563	55.300
163	8.150	26.739	57.000	57.039	1.229	6.220	2.155	53.500
164	8.200	26.903	76.090	76.100	1.577	1.610	2.072	59.000
165	8.250	27.067	15.680	15.695	0.996	2.420	6.346	60.500
166	8.300	27.231	8.200	8.261	0.493	9.730	5.968	54.100
167	8.350	27.395	51.970	51.978	1.556	1.320	2.994	51.600
168	8.400	27.559	75.660	75.703	1.804	6.880	2.383	53.500
169	8.450	27.723	31.280	31.389	1.800	17.530	5.734	51.800
170	8.500	27.887	35.960	36.038	1.253	12.420	3.477	51.900
171	8.550	28.051	23.020	23.081	0.977	9.800	4.233	59.900
172	8.600	28.215	19.050	19.086	0.673	5.840	3.526	63.800
173	8.650	28.379	17.530	17.552	0.549	3.600	3.128	52.900
174	8.700	28.543	12.970	13.025	0.517	8.750	3.969	60.400
175	8.750	28.707	11.610	11.711	0.527	16.170	4.500	59.600
176	8.800	28.871	14.350	14.441	0.561	14.580	3.885	59.200
177	8.850	29.035	13.830	13.943	0.531	18.070	3.808	74.200
178	8.900	29.199	21.110	21.356	0.487	39.460	2.280	70.100
179	8.950	29.363	27.040	27.496	0.531	73.100	1.931	97.400
180	9.000	29.527	30.240	30.339	0.636	15.900	2.096	73.300
181	9.050	29.691	28.840	29.068	0.585	36.580	2.012	92.900
182	9.100	29.855	34.150	34.354	0.729	32.730	2.122	74.100
183	9.150	30.019	36.380	36.483	0.791	16.450	2.168	71.400
184	9.200	30.183	37.470	37.748	1.343	44.590	3.558	60.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	54.160	54.200	1.183	6.480	2.183	54.300
186	9.300	30.511	22.620	22.625	1.006	0.790	4.446	48.300
187	9.350	30.675	18.910	18.910	0.554	0.040	2.930	58.700
188	9.400	30.840	5.410	5.439	0.640	4.580	11.768	45.100
189	9.450	31.004	11.180	11.205	0.352	4.040	3.141	40.700
190	9.500	31.168	19.200	19.247	0.284	7.490	1.476	49.000
191	9.550	31.332	10.310	10.322	0.459	1.860	4.447	36.200
192	9.600	31.496	13.030	13.045	0.466	2.480	3.572	39.100
193	9.650	31.660	17.110	17.107	0.443	-0.520	2.590	39.400
194	9.700	31.824	28.560	28.562	0.525	0.330	1.838	47.200
195	9.750	31.988	44.310	44.355	0.805	7.260	1.815	49.400
196	9.800	32.152	16.930	16.925	0.948	-0.870	5.601	50.400
197	9.850	32.316	12.310	12.336	0.926	4.180	7.506	51.400
198	9.900	32.480	31.000	31.037	0.648	5.950	2.088	58.600
199	9.950	32.644	40.020	40.051	0.590	4.910	1.473	70.500
200	10.000	32.808	46.540	46.555	0.550	2.440	1.181	77.600
201	10.050	32.972	52.340	52.355	0.561	2.400	1.072	59.400
202	10.100	33.136	58.810	58.832	0.646	3.500	1.098	67.300
203	10.150	33.300	63.460	63.484	0.728	3.900	1.147	68.000
204	10.200	33.464	65.400	65.423	0.803	3.750	1.227	79.100
205	10.250	33.628	63.820	63.844	0.877	3.860	1.374	81.600
206	10.300	33.792	63.200	63.224	0.950	3.900	1.503	73.200
207	10.350	33.956	54.050	54.076	1.050	4.200	1.942	74.900
208	10.400	34.120	49.070	49.094	1.130	3.860	2.302	71.100
209	10.450	34.284	56.790	56.853	1.022	10.140	1.798	63.600
210	10.500	34.448	57.550	57.583	0.948	5.260	1.646	65.400
211	10.550	34.612	55.880	55.903	0.850	3.700	1.520	82.300
212	10.600	34.776	51.120	51.147	0.949	4.290	1.855	82.800
213	10.650	34.941	44.380	44.399	0.962	3.000	2.167	80.900
214	10.700	35.105	32.630	32.671	0.896	6.570	2.742	90.900
215	10.750	35.269	35.390	35.456	0.874	10.520	2.465	82.400
216	10.800	35.433	40.230	40.297	0.796	10.750	1.975	86.000
217	10.850	35.597	37.300	37.349	0.889	7.850	2.380	73.700
218	10.900	35.761	35.910	35.952	0.765	6.650	2.128	74.000
219	10.950	35.925	31.560	31.579	0.788	3.020	2.495	83.800
220	11.000	36.089	32.810	32.838	0.689	4.470	2.098	84.400
221	11.050	36.253	44.690	44.700	0.523	1.670	1.170	74.200
222	11.100	36.417	44.420	44.427	0.474	1.110	1.067	83.500
223	11.150	36.581	37.240	37.247	0.592	1.140	1.589	102.000
224	11.200	36.745	30.550	30.559	0.596	1.480	1.950	88.700
225	11.250	36.909	24.200	24.223	0.905	3.740	3.736	79.500
226	11.300	37.073	20.600	20.641	0.762	6.600	3.692	85.800
227	11.350	37.237	31.130	31.271	0.714	22.570	2.283	83.400
228	11.400	37.401	30.430	30.473	0.733	6.950	2.405	87.700
229	11.450	37.565	29.690	29.718	0.731	4.480	2.460	87.200
230	11.500	37.729	31.480	31.508	0.614	4.500	1.949	97.000
231	11.550	37.893	29.820	29.850	0.565	4.810	1.893	90.700
232	11.600	38.057	24.180	24.205	0.450	4.040	1.859	80.800
233	11.650	38.221	18.090	18.108	0.428	2.840	2.364	97.600
234	11.700	38.385	13.650	13.669	0.413	3.030	3.021	83.600
235	11.750	38.549	17.010	17.046	0.449	5.780	2.634	88.800
236	11.800	38.713	14.070	14.074	0.454	0.600	3.226	88.300
237	11.850	38.877	9.280	9.256	0.571	-3.900	6.169	80.800
238	11.900	39.042	5.800	5.770	0.300	-4.760	5.199	71.900
239	11.950	39.206	9.570	9.506	0.320	-10.190	3.366	63.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	26.540	26.484	0.345	-8.970	1.303	53.200
241	12.050	39.534	9.520	9.533	0.456	2.020	4.784	40.700
242	12.100	39.698	18.780	18.800	0.522	3.270	2.777	30.100
243	12.150	39.862	25.590	25.619	0.764	4.610	2.982	31.200
244	12.200	40.026	15.810	15.880	0.702	11.230	4.421	26.200
245	12.250	40.190	13.300	13.364	0.624	10.280	4.669	15.400
246	12.300	40.354	16.700	16.722	0.535	3.450	3.199	14.500
247	12.350	40.518	33.880	33.888	0.731	1.340	2.157	18.300
248	12.400	40.682	35.830	35.849	0.792	3.010	2.209	18.800
249	12.450	40.846	20.910	20.931	0.799	3.400	3.817	13.500
250	12.500	41.010	24.270	24.333	0.962	10.160	3.953	11.500
251	12.550	41.174	54.770	54.806	1.099	5.800	2.005	14.900
252	12.600	41.338	36.730	36.810	1.160	12.810	3.151	17.600
253	12.650	41.502	19.450	19.537	1.183	13.860	6.055	17.300
254	12.700	41.666	24.720	24.800	0.871	12.870	3.512	20.500
255	12.750	41.830	14.730	14.771	0.714	6.590	4.834	20.000
256	12.800	41.994	18.160	18.218	0.671	9.240	3.683	23.100
257	12.850	42.158	20.730	20.834	0.667	16.610	3.202	21.800
258	12.900	42.322	21.520	21.623	0.662	16.550	3.062	18.500
259	12.950	42.486	17.910	17.994	0.651	13.440	3.618	24.900
260	13.000	42.650	17.440	17.482	0.586	6.780	3.352	38.300
261	13.050	42.814	19.910	19.958	0.637	7.700	3.192	42.500
262	13.100	42.978	21.030	21.069	0.708	6.210	3.360	47.200
263	13.150	43.143	22.620	22.676	0.903	9.030	3.982	51.800
264	13.200	43.307	42.840	42.935	0.886	15.260	2.064	57.600
265	13.250	43.471	36.440	36.516	0.939	12.180	2.571	64.900
266	13.300	43.635	34.690	34.713	0.917	3.740	2.642	66.400
267	13.350	43.799	31.460	31.494	1.033	5.370	3.280	42.900
268	13.400	43.963	32.830	32.874	1.015	6.990	3.088	32.300
269	13.450	44.127	36.450	36.435	1.118	-2.410	3.068	23.000
270	13.500	44.291	16.420	16.439	1.067	3.070	6.491	20.300
271	13.550	44.455	27.080	27.088	1.117	1.360	4.124	17.100
272	13.600	44.619	84.580	84.613	1.270	5.220	1.501	15.600
273	13.650	44.783	163.660	163.693	1.318	5.270	0.805	21.000
274	13.700	44.947	63.550	63.562	1.452	1.900	2.284	19.200
275	13.750	45.111	32.540	32.576	1.489	5.750	4.571	18.100
276	13.800	45.275	24.030	24.047	0.833	2.660	3.464	12.100
277	13.850	45.439	19.090	19.112	0.655	3.520	3.427	12.000
278	13.900	45.603	10.230	10.237	0.558	1.170	5.451	21.900
279	13.950	45.767	20.890	20.900	0.512	1.630	2.450	23.000
280	14.000	45.931	30.710	30.732	2.074	3.530	6.749	26.300
281	14.050	46.095	28.250	28.301	1.383	8.180	4.887	0.000
282	14.100	46.259	273.200	273.208	1.440	1.270	0.527	0.000
283	14.150	46.423	192.480	192.497	0.833	2.730	0.433	0.000
284	14.200	46.587	188.420	188.453	0.531	5.280	0.282	0.000
285	14.250	46.751	178.490	178.520	1.916	4.840	1.073	0.000
286	14.300	46.915	38.880	38.925	3.240	7.250	8.324	0.000
287	14.350	47.079	48.160	48.181	2.724	3.400	5.654	0.000
288	14.400	47.244	34.230	34.269	1.109	6.320	3.236	0.000
289	14.450	47.408	9.310	9.398	0.596	14.160	6.342	0.000
290	14.500	47.572	4.090	4.169	0.431	12.640	10.338	0.000
291	14.550	47.736	3.730	3.779	0.237	7.770	6.272	0.000
292	14.600	47.900	8.040	8.067	0.367	4.260	4.550	0.000
293	14.650	48.064	14.260	14.310	0.889	7.940	6.213	0.000
294	14.700	48.228	27.980	28.019	0.702	6.220	2.505	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	113.120	113.196	0.000	12.220	0.000	0.000
296	14.800	48.556	534.620	534.663	0.000	6.870	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221608
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-5
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	07:28
CPT File:	13-53075_GP13-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722270.120
Northing / Lat:	4294342.303
Elevation:	144.775
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	21.190	21.230	0.021	6.450	0.099	30.400
2	0.100	0.328	140.090	140.129	0.111	6.180	0.079	31.200
3	0.150	0.492	145.880	145.907	0.415	4.370	0.284	30.900
4	0.200	0.656	113.920	113.976	0.518	8.970	0.454	0.000
5	0.250	0.820	69.940	69.943	0.862	0.470	1.232	0.000
6	0.300	0.984	51.250	51.324	0.933	11.930	1.818	0.000
7	0.350	1.148	70.430	70.497	1.074	10.680	1.523	0.000
8	0.400	1.312	82.120	82.171	1.270	8.130	1.546	0.000
9	0.450	1.476	76.940	76.965	1.228	3.960	1.596	0.000
10	0.500	1.640	67.780	67.781	0.864	0.240	1.275	0.000
11	0.550	1.804	64.570	64.569	0.887	-0.230	1.374	0.000
12	0.600	1.968	61.850	61.870	1.053	3.210	1.702	0.000
13	0.650	2.133	57.540	57.551	1.391	1.750	2.417	0.000
14	0.700	2.297	50.340	50.379	1.579	6.260	3.134	0.000
15	0.750	2.461	50.090	50.101	2.347	1.830	4.684	0.000
16	0.800	2.625	80.910	80.939	1.514	4.610	1.871	0.000
17	0.850	2.789	447.580	447.593	1.995	2.020	0.446	0.000
18	0.900	2.953	388.650	388.756	0.000	17.010	0.000	0.000
19	0.950	3.117	469.390	469.416	0.000	4.160	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221610
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-5S
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-04-2014
CPT Time:	08:36
CPT File:	13-53075_GP13-5S.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722270.840
Northing / Lat:	4294342.440
Elevation:	144.800
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.070	2.075	0.001	0.750	0.048	32.000
2	0.100	0.328	13.520	13.558	0.005	6.040	0.037	45.300
3	0.150	0.492	21.320	21.352	0.001	5.050	0.005	51.200
4	0.200	0.656	24.040	24.070	0.001	4.750	0.004	59.000
5	0.250	0.820	22.400	22.425	0.001	4.080	0.004	66.100
6	0.300	0.984	20.370	20.392	0.001	3.480	0.005	56.300
7	0.350	1.148	17.940	17.967	0.002	4.360	0.011	65.100
8	0.400	1.312	18.150	18.175	0.001	3.950	0.006	60.400
9	0.450	1.476	17.440	17.462	0.002	3.480	0.011	63.500
10	0.500	1.640	16.440	16.461	0.001	3.340	0.006	76.400
11	0.550	1.804	15.690	15.709	0.002	3.080	0.013	73.600
12	0.600	1.968	15.180	15.198	0.001	2.930	0.007	72.500
13	0.650	2.133	14.370	14.387	0.002	2.650	0.014	76.100
14	0.700	2.297	13.900	13.916	0.001	2.510	0.007	72.900
15	0.750	2.461	13.030	13.045	0.001	2.420	0.008	65.900
16	0.800	2.625	12.550	12.565	0.002	2.380	0.016	60.300
17	0.850	2.789	12.550	12.564	0.002	2.220	0.016	56.200
18	0.900	2.953	12.300	12.313	0.001	2.140	0.008	48.700
19	0.950	3.117	11.080	11.093	0.001	2.090	0.009	47.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	10.370	10.382	0.001	1.870	0.010	34.000
21	1.050	3.445	9.550	9.562	0.001	1.850	0.010	42.800
22	1.100	3.609	9.640	9.652	0.003	1.970	0.031	40.400
23	1.150	3.773	8.010	8.020	0.004	1.630	0.050	41.000
24	1.200	3.937	6.600	6.609	0.003	1.520	0.045	50.400
25	1.250	4.101	6.040	6.049	0.003	1.480	0.050	42.200
26	1.300	4.265	5.300	5.309	0.005	1.450	0.094	40.800
27	1.350	4.429	4.730	4.739	0.002	1.430	0.042	47.000
28	1.400	4.593	4.310	4.319	0.005	1.410	0.116	41.400
29	1.450	4.757	3.810	3.818	0.006	1.350	0.157	43.400
30	1.500	4.921	3.390	3.398	0.009	1.350	0.265	32.700
31	1.550	5.085	2.600	2.607	0.009	1.080	0.345	38.100
32	1.600	5.249	1.960	1.969	0.007	1.390	0.356	31.600
33	1.650	5.413	1.280	1.289	0.009	1.380	0.698	28.100
34	1.700	5.577	1.090	1.099	0.007	1.390	0.637	26.100
35	1.750	5.741	1.290	1.298	0.009	1.350	0.693	37.200
36	1.800	5.905	1.620	1.629	0.008	1.370	0.491	31.000
37	1.850	6.069	2.100	2.110	0.007	1.590	0.332	34.200
38	1.900	6.234	1.830	1.840	0.008	1.660	0.435	31.700
39	1.950	6.398	1.860	1.871	0.008	1.790	0.428	41.300
40	2.000	6.562	1.960	1.970	0.009	1.650	0.457	36.700
41	2.050	6.726	2.030	2.041	0.008	1.690	0.392	40.400
42	2.100	6.890	2.650	2.662	0.008	1.880	0.301	38.100
43	2.150	7.054	3.170	3.182	0.007	1.950	0.220	39.600
44	2.200	7.218	4.520	4.533	0.007	2.070	0.154	40.300
45	2.250	7.382	5.190	5.204	0.009	2.220	0.173	37.600
46	2.300	7.546	4.880	4.893	0.010	2.080	0.204	33.700
47	2.350	7.710	4.780	4.794	0.010	2.170	0.209	32.900
48	2.400	7.874	5.070	5.083	0.007	2.010	0.138	35.100
49	2.450	8.038	5.070	5.083	0.010	2.090	0.197	30.200
50	2.500	8.202	4.990	5.003	0.011	2.140	0.220	26.500
51	2.550	8.366	4.770	4.783	0.010	2.040	0.209	32.400
52	2.600	8.530	5.140	5.154	0.011	2.260	0.213	19.900
53	2.650	8.694	4.350	4.364	0.009	2.280	0.206	35.000
54	2.700	8.858	4.480	4.494	0.010	2.300	0.223	38.000
55	2.750	9.022	4.720	4.733	0.008	2.130	0.169	45.000
56	2.800	9.186	4.530	4.543	0.008	2.150	0.176	42.600
57	2.850	9.350	4.510	4.524	0.008	2.270	0.177	48.400
58	2.900	9.514	4.690	4.704	0.007	2.210	0.149	57.400
59	2.950	9.678	4.270	4.283	0.008	2.090	0.187	50.500
60	3.000	9.842	3.880	3.893	0.005	2.120	0.128	60.500
61	3.050	10.006	3.520	3.532	0.009	1.930	0.255	57.800
62	3.100	10.170	4.120	4.133	0.011	2.040	0.266	62.400
63	3.150	10.335	5.740	5.752	0.010	1.900	0.174	74.300
64	3.200	10.499	7.700	7.686	0.013	-2.240	0.169	70.700
65	3.250	10.663	11.780	11.787	0.150	1.060	1.273	83.800
66	3.300	10.827	14.920	14.939	0.178	2.970	1.192	73.200
67	3.350	10.991	14.790	14.819	0.241	4.690	1.626	70.700
68	3.400	11.155	13.250	13.276	0.195	4.090	1.469	76.400
69	3.450	11.319	3.940	3.955	0.129	2.400	3.262	86.500
70	3.500	11.483	3.840	3.861	0.014	3.360	0.363	94.700
71	3.550	11.647	3.770	3.792	0.211	3.470	5.565	77.600
72	3.600	11.811	14.660	14.666	0.380	0.950	2.591	78.500
73	3.650	11.975	176.350	176.397	0.970	7.590	0.550	79.400
74	3.700	12.139	143.130	143.167	1.284	5.870	0.897	67.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	63.530	63.564	1.441	5.370	2.267	87.000
76	3.800	12.467	51.360	51.395	1.707	5.620	3.321	72.100
77	3.850	12.631	34.060	34.096	1.093	5.800	3.206	63.400
78	3.900	12.795	21.720	21.768	0.641	7.620	2.945	49.500
79	3.950	12.959	20.150	20.137	0.505	-2.040	2.508	52.000
80	4.000	13.123	27.310	27.337	0.450	4.320	1.646	37.200
81	4.050	13.287	24.360	24.393	0.365	5.310	1.496	37.700
82	4.100	13.451	19.800	19.835	0.335	5.650	1.689	25.100
83	4.150	13.615	16.970	17.005	0.309	5.620	1.817	23.000
84	4.200	13.779	23.020	23.047	0.504	4.330	2.187	28.100
85	4.250	13.943	20.400	20.437	0.549	5.850	2.686	23.300
86	4.300	14.107	24.820	24.854	0.717	5.370	2.885	27.100
87	4.350	14.271	23.420	23.454	0.709	5.470	3.023	32.800
88	4.400	14.436	30.330	30.360	0.852	4.780	2.806	40.800
89	4.450	14.600	33.320	33.346	0.702	4.190	2.105	55.600
90	4.500	14.764	35.490	35.516	0.520	4.230	1.464	70.100
91	4.550	14.928	31.920	31.944	0.444	3.780	1.390	74.300
92	4.600	15.092	35.200	35.235	0.482	5.660	1.368	81.200
93	4.650	15.256	33.270	33.278	0.533	1.230	1.602	86.700
94	4.700	15.420	26.410	26.404	0.654	-0.890	2.477	70.500
95	4.750	15.584	18.660	18.642	0.492	-2.950	2.639	65.100
96	4.800	15.748	21.970	21.947	0.661	-3.690	3.012	48.700
97	4.850	15.912	31.030	31.019	0.627	-1.700	2.021	41.900
98	4.900	16.076	23.270	23.261	0.814	-1.380	3.499	35.900
99	4.950	16.240	23.970	23.971	0.765	0.150	3.191	26.700
100	5.000	16.404	17.830	17.845	0.593	2.360	3.323	24.800
101	5.050	16.568	21.080	21.098	0.493	2.910	2.337	22.700
102	5.100	16.732	22.830	22.832	0.393	0.270	1.721	17.900
103	5.150	16.896	23.660	23.678	0.488	2.830	2.061	18.600
104	5.200	17.060	11.660	11.672	0.483	1.910	4.138	18.100
105	5.250	17.224	10.070	10.053	0.343	-2.780	3.412	16.400
106	5.300	17.388	22.190	22.207	0.141	2.670	0.635	19.000
107	5.350	17.552	10.030	10.059	0.305	4.680	3.032	16.600
108	5.400	17.716	12.390	12.409	0.236	3.060	1.902	16.100
109	5.450	17.880	4.180	4.197	0.231	2.710	5.504	18.900
110	5.500	18.044	16.980	17.000	0.126	3.200	0.741	21.900
111	5.550	18.208	8.030	8.057	0.245	4.310	3.041	25.900
112	5.600	18.372	49.410	49.421	0.847	1.820	1.714	33.800
113	5.650	18.537	68.410	68.431	0.802	3.290	1.172	42.400
114	5.700	18.701	85.120	85.144	0.803	3.830	0.943	48.000
115	5.750	18.865	45.110	45.140	0.834	4.730	1.848	57.000
116	5.800	19.029	32.210	32.212	0.999	0.310	3.101	54.700
117	5.850	19.193	30.080	30.074	0.762	-0.890	2.534	46.200
118	5.900	19.357	36.880	36.869	0.788	-1.780	2.137	49.400
119	5.950	19.521	37.470	37.474	0.726	0.680	1.937	37.700
120	6.000	19.685	198.950	198.958	0.953	1.250	0.479	40.400
121	6.050	19.849	315.690	315.702	0.667	1.930	0.211	45.600
122	6.100	20.013	382.810	382.858	3.158	7.610	0.825	55.100
123	6.150	20.177	377.730	377.826	2.981	15.390	0.789	54.300
124	6.200	20.341	25.090	25.292	1.795	32.430	7.097	36.700
125	6.250	20.505	41.060	41.132	0.624	11.600	1.517	34.600
126	6.300	20.669	47.380	47.454	0.459	11.810	0.967	31.000
127	6.350	20.833	25.250	25.296	0.319	7.420	1.261	23.700
128	6.400	20.997	30.810	30.815	0.480	0.880	1.558	15.400
129	6.450	21.161	44.000	44.090	0.695	14.380	1.576	13.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	37.150	37.220	0.990	11.290	2.660	9.900
131	6.550	21.489	43.010	43.077	1.119	10.680	2.598	14.000
132	6.600	21.653	41.220	41.263	0.922	6.920	2.234	8.700
133	6.650	21.817	40.280	40.316	0.831	5.830	2.061	9.200
134	6.700	21.981	72.150	72.184	1.138	5.510	1.577	9.800
135	6.750	22.145	37.590	37.616	1.234	4.170	3.281	12.500
136	6.800	22.309	21.070	21.104	0.987	5.450	4.677	13.600
137	6.850	22.473	25.680	25.712	0.643	5.100	2.501	15.700
138	6.900	22.638	35.830	35.859	0.765	4.610	2.133	14.800
139	6.950	22.802	37.190	37.230	0.868	6.390	2.331	21.500
140	7.000	22.966	31.820	31.854	1.020	5.460	3.202	25.100
141	7.050	23.130	44.350	44.385	1.059	5.570	2.386	42.200
142	7.100	23.294	41.220	41.267	1.020	7.470	2.472	40.600
143	7.150	23.458	43.460	43.495	1.008	5.660	2.317	50.200
144	7.200	23.622	62.370	62.398	1.236	4.460	1.981	63.200
145	7.250	23.786	32.900	32.942	1.087	6.750	3.300	67.800
146	7.300	23.950	18.770	18.818	1.071	7.680	5.691	69.900
147	7.350	24.114	20.390	20.439	0.827	7.850	4.046	65.200
148	7.400	24.278	37.940	37.999	0.632	9.400	1.663	62.700
149	7.450	24.442	28.000	28.033	0.597	5.220	2.130	48.700
150	7.500	24.606	21.750	21.793	0.520	6.840	2.386	33.800
151	7.550	24.770	30.710	30.754	0.698	6.970	2.270	27.100
152	7.600	24.934	36.950	37.018	1.079	10.860	2.915	24.700
153	7.650	25.098	32.840	32.906	1.242	10.520	3.774	23.200
154	7.700	25.262	30.340	30.454	1.611	18.280	5.290	27.900
155	7.750	25.426	26.820	26.921	1.203	16.240	4.469	17.800
156	7.800	25.590	49.790	49.909	2.075	19.090	4.158	17.300
157	7.850	25.754	188.060	188.239	3.142	28.600	1.669	13.900
158	7.900	25.918	78.070	78.244	3.084	27.900	3.942	14.700
159	7.950	26.082	50.650	50.712	2.453	9.990	4.837	13.400
160	8.000	26.246	56.350	56.498	1.035	23.760	1.832	16.800
161	8.050	26.410	48.260	48.388	1.184	20.530	2.447	16.000
162	8.100	26.574	46.180	46.278	1.131	15.690	2.444	19.300
163	8.150	26.739	31.640	31.723	1.177	13.350	3.710	21.900
164	8.200	26.903	27.030	27.112	1.347	13.140	4.968	27.700
165	8.250	27.067	58.240	58.314	1.323	11.790	2.269	31.100
166	8.300	27.231	63.370	63.475	1.403	16.800	2.210	39.200
167	8.350	27.395	36.780	36.915	1.113	21.610	3.015	48.300
168	8.400	27.559	40.600	40.725	1.656	20.000	4.066	34.600
169	8.450	27.723	46.620	46.704	1.805	13.520	3.865	34.800
170	8.500	27.887	40.860	40.935	1.157	11.960	2.826	17.200
171	8.550	28.051	102.890	102.937	1.196	7.530	1.162	25.600
172	8.600	28.215	31.410	31.444	1.190	5.490	3.784	15.800
173	8.650	28.379	19.280	19.323	1.082	6.910	5.600	14.100
174	8.700	28.543	29.900	29.954	0.635	8.640	2.120	16.600
175	8.750	28.707	37.190	37.248	0.586	9.330	1.573	16.400
176	8.800	28.871	18.380	18.421	0.528	6.550	2.866	16.400
177	8.850	29.035	29.790	29.812	0.599	3.600	2.009	12.100
178	8.900	29.199	36.090	36.112	0.783	3.550	2.168	18.700
179	8.950	29.363	26.730	26.746	0.719	2.540	2.688	24.500
180	9.000	29.527	22.520	22.556	0.568	5.830	2.518	23.500
181	9.050	29.691	22.280	22.311	0.419	4.920	1.878	33.000
182	9.100	29.855	24.020	24.019	0.599	-0.090	2.494	43.300
183	9.150	30.019	27.090	27.121	0.359	5.020	1.324	44.100
184	9.200	30.183	14.450	14.502	0.284	8.340	1.958	54.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	28.550	28.667	0.336	18.770	1.172	46.500
186	9.300	30.511	26.120	26.240	0.290	19.180	1.105	46.200
187	9.350	30.675	22.910	23.051	0.318	22.540	1.380	54.600
188	9.400	30.840	20.540	20.729	0.391	30.220	1.886	50.500
189	9.450	31.004	27.740	27.949	0.584	33.500	2.090	45.400
190	9.500	31.168	32.130	32.516	0.962	61.800	2.959	41.300
191	9.550	31.332	113.900	114.040	1.759	22.410	1.542	30.500
192	9.600	31.496	129.640	129.703	2.432	10.070	1.875	30.000
193	9.650	31.660	106.070	106.136	2.191	10.500	2.064	25.000
194	9.700	31.824	93.920	93.975	2.412	8.750	2.567	24.900
195	9.750	31.988	64.740	64.804	1.817	10.200	2.804	31.400
196	9.800	32.152	41.290	41.361	1.397	11.420	3.378	35.800
197	9.850	32.316	36.820	36.882	0.904	9.870	2.451	42.500
198	9.900	32.480	23.480	23.580	0.774	16.080	3.282	36.100
199	9.950	32.644	24.350	24.447	0.893	15.520	3.653	38.300
200	10.000	32.808	34.220	34.304	0.865	13.450	2.522	33.400
201	10.050	32.972	48.760	48.816	0.866	8.920	1.774	29.800
202	10.100	33.136	33.200	33.253	0.843	8.510	2.535	19.900
203	10.150	33.300	49.360	49.398	0.828	6.040	1.676	20.800
204	10.200	33.464	44.420	44.466	0.835	7.360	1.878	17.700
205	10.250	33.628	50.910	50.978	0.985	10.880	1.932	17.000
206	10.300	33.792	57.430	57.500	1.256	11.160	2.184	15.300
207	10.350	33.956	50.310	50.372	1.294	9.890	2.569	15.600
208	10.400	34.120	26.450	26.487	1.267	5.950	4.783	12.500
209	10.450	34.284	24.390	24.423	1.194	5.290	4.889	10.700
210	10.500	34.448	17.070	17.130	1.069	9.630	6.240	10.400
211	10.550	34.612	56.940	57.024	1.330	13.490	2.332	10.400
212	10.600	34.776	27.380	27.436	1.274	9.020	4.643	11.100
213	10.650	34.941	55.910	55.939	1.364	4.650	2.438	8.200
214	10.700	35.105	72.440	72.476	1.500	5.720	2.070	9.600
215	10.750	35.269	39.670	39.723	1.396	8.430	3.514	6.800
216	10.800	35.433	32.550	32.567	1.458	2.750	4.477	10.900
217	10.850	35.597	36.610	36.639	0.980	4.620	2.675	12.100
218	10.900	35.761	30.140	30.206	0.830	10.560	2.748	13.300
219	10.950	35.925	24.780	24.848	0.930	10.940	3.743	18.700
220	11.000	36.089	47.300	47.391	0.898	14.570	1.895	19.800
221	11.050	36.253	86.790	86.867	0.874	12.270	1.006	25.500
222	11.100	36.417	60.050	60.125	0.902	12.000	1.500	26.200
223	11.150	36.581	44.610	44.657	1.387	7.510	3.106	29.500
224	11.200	36.745	34.980	35.031	1.033	8.170	2.949	36.700
225	11.250	36.909	79.260	79.329	0.890	11.120	1.122	36.800
226	11.300	37.073	194.320	194.376	0.758	8.910	0.390	44.500
227	11.350	37.237	143.210	143.239	1.415	4.660	0.988	40.100
228	11.400	37.401	83.730	83.762	1.736	5.050	2.073	51.400
229	11.450	37.565	54.130	54.161	1.506	5.010	2.781	51.000
230	11.500	37.729	68.070	68.124	1.483	8.650	2.177	41.600
231	11.550	37.893	136.070	136.126	1.768	8.950	1.299	34.700
232	11.600	38.057	163.810	163.863	2.843	8.470	1.735	28.200
233	11.650	38.221	116.600	116.656	3.190	8.960	2.735	24.300
234	11.700	38.385	88.530	88.605	2.925	12.010	3.301	24.100
235	11.750	38.549	77.310	77.378	2.491	10.820	3.219	19.400
236	11.800	38.713	47.390	47.460	1.444	11.240	3.043	0.000
237	11.850	38.877	26.700	26.752	0.984	8.290	3.678	0.000
238	11.900	39.042	28.590	28.624	0.482	5.480	1.684	0.000
239	11.950	39.206	19.790	19.825	0.638	5.600	3.218	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	14.740	14.777	0.683	5.990	4.622	0.000
241	12.050	39.534	40.190	40.197	0.697	1.130	1.734	0.000
242	12.100	39.698	45.170	45.229	0.853	9.390	1.886	0.000
243	12.150	39.862	86.450	86.498	1.288	7.620	1.489	0.000
244	12.200	40.026	141.290	141.326	1.164	5.820	0.824	0.000
245	12.250	40.190	77.210	77.239	1.466	4.660	1.898	0.000
246	12.300	40.354	101.750	101.800	1.578	8.080	1.550	0.000
247	12.350	40.518	167.610	167.661	1.437	8.100	0.857	0.000
248	12.400	40.682	278.260	278.309	2.007	7.880	0.721	0.000
249	12.450	40.846	131.590	131.623	3.439	5.310	2.613	0.000
250	12.500	41.010	70.210	70.245	2.968	5.590	4.225	0.000
251	12.550	41.174	109.200	109.258	0.000	9.250	0.000	0.000
252	12.600	41.338	399.210	399.268	0.000	9.350	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221611
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-6
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	07:44
CPT File:	13-53075_GP13-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722278.808
Northing / Lat:	4294326.042
Elevation:	144.940
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	9.510	9.517	0.001	1.170	0.011	30.500
2	0.100	0.328	14.430	14.435	0.001	0.810	0.007	37.200
3	0.150	0.492	14.630	14.649	0.001	3.010	0.007	42.000
4	0.200	0.656	24.070	24.079	0.001	1.430	0.004	54.700
5	0.250	0.820	40.780	40.789	0.137	1.420	0.336	63.400
6	0.300	0.984	31.430	31.459	0.345	4.600	1.097	76.600
7	0.350	1.148	30.230	30.236	0.605	1.020	2.001	78.400
8	0.400	1.312	38.520	38.480	0.850	-6.370	2.209	75.100
9	0.450	1.476	40.060	40.071	1.025	1.690	2.558	68.000
10	0.500	1.640	50.880	50.887	1.001	1.110	1.967	75.400
11	0.550	1.804	87.770	87.789	1.063	2.990	1.211	76.900
12	0.600	1.968	118.220	118.219	1.617	-0.100	1.368	85.700
13	0.650	2.133	117.690	117.692	1.643	0.330	1.396	77.600
14	0.700	2.297	100.570	100.571	1.917	0.200	1.906	79.000
15	0.750	2.461	77.320	77.325	2.481	0.810	3.209	82.600
16	0.800	2.625	60.750	60.752	2.392	0.370	3.937	81.700
17	0.850	2.789	67.530	67.539	2.076	1.500	3.074	87.300
18	0.900	2.953	51.690	51.695	1.922	0.810	3.718	74.100
19	0.950	3.117	47.120	47.107	1.744	-2.100	3.702	90.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	34.500	34.522	1.466	3.600	4.247	81.300
21	1.050	3.445	29.100	29.111	1.162	1.790	3.992	96.700
22	1.100	3.609	24.630	24.635	0.925	0.850	3.755	88.800
23	1.150	3.773	22.550	22.554	0.750	0.570	3.325	76.100
24	1.200	3.937	19.000	18.997	0.678	-0.510	3.569	85.400
25	1.250	4.101	14.050	14.028	0.601	-3.460	4.284	74.000
26	1.300	4.265	12.340	12.321	0.547	-3.090	4.440	81.600
27	1.350	4.429	13.090	13.080	0.521	-1.620	3.983	77.400
28	1.400	4.593	12.810	12.796	0.484	-2.320	3.783	73.800
29	1.450	4.757	12.760	12.742	0.437	-2.940	3.430	85.100
30	1.500	4.921	12.720	12.696	0.372	-3.830	2.930	82.800
31	1.550	5.085	14.320	14.314	0.368	-0.890	2.571	78.700
32	1.600	5.249	14.420	14.419	0.361	-0.140	2.504	81.100
33	1.650	5.413	14.110	14.109	0.412	-0.160	2.920	78.000
34	1.700	5.577	12.790	12.796	0.362	1.040	2.829	80.000
35	1.750	5.741	13.390	13.399	0.342	1.470	2.552	79.100
36	1.800	5.905	12.320	12.315	0.305	-0.790	2.477	80.100
37	1.850	6.069	9.890	9.884	0.283	-1.000	2.863	0.000
38	1.900	6.234	8.850	8.844	0.211	-1.040	2.386	0.000
39	1.950	6.398	8.350	8.353	0.191	0.440	2.287	0.000
40	2.000	6.562	10.570	10.569	0.240	-0.170	2.271	0.000
41	2.050	6.726	14.010	14.003	0.326	-1.140	2.328	0.000
42	2.100	6.890	13.790	13.808	0.452	2.960	3.273	0.000
43	2.150	7.054	13.450	13.453	0.491	0.440	3.650	0.000
44	2.200	7.218	17.840	17.843	0.518	0.520	2.903	0.000
45	2.250	7.382	15.890	15.886	0.537	-0.630	3.380	0.000
46	2.300	7.546	12.750	12.750	0.552	0.000	4.329	0.000
47	2.350	7.710	12.850	12.870	1.246	3.160	9.682	0.000
48	2.400	7.874	55.850	55.903	2.978	8.530	5.327	0.000
49	2.450	8.038	357.970	358.051	3.183	13.050	0.889	0.000
50	2.500	8.202	394.690	394.712	1.720	3.480	0.436	0.000
51	2.550	8.366	419.190	419.218	0.000	4.460	0.000	0.000
52	2.600	8.530	463.520	463.538	0.000	2.960	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221613
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-6S
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-03-2014
CPT Time:	16:10
CPT File:	13-53075_GP13-6S.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722278.770
Northing / Lat:	4294326.290
Elevation:	144.960
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	9.890	9.889	0.002	-0.140	0.020	27.000
2	0.100	0.328	22.060	22.073	0.003	2.120	0.014	29.500
3	0.150	0.492	12.980	12.995	0.001	2.430	0.008	34.300
4	0.200	0.656	8.910	8.922	0.003	1.910	0.034	46.500
5	0.250	0.820	7.740	7.754	0.002	2.290	0.026	54.000
6	0.300	0.984	6.310	6.323	0.002	2.090	0.032	62.400
7	0.350	1.148	6.970	6.982	0.003	1.860	0.043	55.600
8	0.400	1.312	7.690	7.701	0.004	1.820	0.052	60.100
9	0.450	1.476	8.410	8.421	0.002	1.830	0.024	58.300
10	0.500	1.640	8.230	8.241	0.001	1.810	0.012	61.000
11	0.550	1.804	8.250	8.260	0.004	1.560	0.048	57.100
12	0.600	1.968	8.800	8.810	0.003	1.570	0.034	58.700
13	0.650	2.133	9.510	9.516	0.005	1.030	0.053	52.100
14	0.700	2.297	10.890	10.897	0.004	1.090	0.037	51.200
15	0.750	2.461	10.800	10.806	0.002	0.970	0.019	67.800
16	0.800	2.625	10.490	10.496	0.002	0.890	0.019	68.000
17	0.850	2.789	11.080	11.085	0.005	0.800	0.045	62.500
18	0.900	2.953	11.750	11.755	0.004	0.770	0.034	63.400
19	0.950	3.117	11.190	11.195	0.004	0.760	0.036	60.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	10.160	10.164	0.004	0.720	0.039	67.400
21	1.050	3.445	9.510	9.514	0.003	0.580	0.032	68.700
22	1.100	3.609	9.000	9.004	0.005	0.610	0.056	66.400
23	1.150	3.773	8.780	8.783	0.005	0.440	0.057	67.300
24	1.200	3.937	8.480	8.484	0.006	0.590	0.071	63.000
25	1.250	4.101	8.150	8.153	0.005	0.540	0.061	71.500
26	1.300	4.265	7.970	7.973	0.005	0.480	0.063	64.900
27	1.350	4.429	7.930	7.933	0.005	0.440	0.063	68.000
28	1.400	4.593	7.480	7.483	0.004	0.480	0.053	66.600
29	1.450	4.757	6.620	6.623	0.007	0.420	0.106	53.000
30	1.500	4.921	6.330	6.331	0.006	0.180	0.095	52.500
31	1.550	5.085	5.910	5.912	0.002	0.270	0.034	67.800
32	1.600	5.249	5.780	5.781	0.004	0.230	0.069	71.800
33	1.650	5.413	6.000	5.998	0.003	-0.280	0.050	68.400
34	1.700	5.577	6.400	6.399	0.002	-0.200	0.031	59.800
35	1.750	5.741	6.620	6.620	0.003	-0.060	0.045	64.200
36	1.800	5.905	6.960	6.958	0.002	-0.260	0.029	76.500
37	1.850	6.069	7.140	7.140	0.003	-0.060	0.042	79.800
38	1.900	6.234	7.750	7.749	0.006	-0.180	0.077	79.000
39	1.950	6.398	8.690	8.690	0.001	-0.080	0.012	74.800
40	2.000	6.562	10.440	10.440	0.001	-0.010	0.010	87.200
41	2.050	6.726	10.900	10.901	0.002	0.120	0.018	89.900
42	2.100	6.890	10.100	10.100	0.002	-0.070	0.020	92.100
43	2.150	7.054	8.860	8.859	0.003	-0.150	0.034	90.900
44	2.200	7.218	9.470	9.470	0.002	-0.040	0.021	68.000
45	2.250	7.382	11.150	11.151	0.001	0.140	0.009	75.200
46	2.300	7.546	14.480	14.480	0.003	0.080	0.021	64.500
47	2.350	7.710	14.560	14.560	0.001	0.080	0.007	58.000
48	2.400	7.874	15.160	15.161	0.002	0.180	0.013	56.800
49	2.450	8.038	53.380	53.377	0.711	-0.560	1.332	59.600
50	2.500	8.202	79.540	79.543	0.572	0.560	0.719	49.500
51	2.550	8.366	90.510	90.517	0.597	1.140	0.660	45.200
52	2.600	8.530	77.010	77.011	1.136	0.110	1.475	43.300
53	2.650	8.694	22.500	22.512	0.974	1.920	4.327	33.300
54	2.700	8.858	15.190	15.208	0.272	2.810	1.789	35.900
55	2.750	9.022	10.240	10.255	0.045	2.380	0.439	31.400
56	2.800	9.186	5.290	5.303	0.002	2.040	0.038	38.800
57	2.850	9.350	3.810	3.822	0.004	1.900	0.105	40.400
58	2.900	9.514	2.730	2.741	0.007	1.820	0.255	39.200
59	2.950	9.678	2.490	2.502	0.008	1.970	0.320	33.400
60	3.000	9.842	2.510	2.521	0.009	1.740	0.357	45.100
61	3.050	10.006	2.640	2.649	0.008	1.520	0.302	38.600
62	3.100	10.170	3.100	3.110	0.010	1.580	0.322	45.900
63	3.150	10.335	3.350	3.359	0.010	1.470	0.298	39.900
64	3.200	10.499	3.850	3.858	0.009	1.270	0.233	36.900
65	3.250	10.663	3.810	3.818	0.010	1.360	0.262	33.100
66	3.300	10.827	3.670	3.677	0.009	1.200	0.245	49.700
67	3.350	10.991	3.920	3.929	0.006	1.400	0.153	42.200
68	3.400	11.155	3.810	3.817	0.009	1.180	0.236	34.500
69	3.450	11.319	3.240	3.248	0.006	1.340	0.185	34.700
70	3.500	11.483	2.610	2.617	0.009	1.200	0.344	37.900
71	3.550	11.647	2.010	2.017	0.010	1.160	0.496	33.100
72	3.600	11.811	2.080	2.086	0.010	0.930	0.479	35.100
73	3.650	11.975	2.120	2.128	0.009	1.330	0.423	35.000
74	3.700	12.139	2.270	2.284	0.019	2.310	0.832	37.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	2.770	2.786	0.012	2.630	0.431	45.300
76	3.800	12.467	1.970	1.972	0.014	0.360	0.710	43.200
77	3.850	12.631	3.200	3.216	0.060	2.550	1.866	38.800
78	3.900	12.795	7.540	7.567	0.128	4.330	1.692	45.000
79	3.950	12.959	20.700	20.712	0.116	1.970	0.560	45.900
80	4.000	13.123	21.750	21.766	0.051	2.520	0.234	41.900
81	4.050	13.287	3.030	3.045	0.163	2.370	5.353	56.000
82	4.100	13.451	14.840	14.856	0.240	2.630	1.615	58.900
83	4.150	13.615	2.550	2.560	0.500	1.650	19.529	58.600
84	4.200	13.779	33.090	33.118	0.115	4.460	0.347	49.800
85	4.250	13.943	56.760	56.767	0.060	1.160	0.106	57.600
86	4.300	14.107	49.120	49.130	0.127	1.580	0.258	56.700
87	4.350	14.271	36.290	36.315	0.136	4.080	0.374	61.200
88	4.400	14.436	29.970	30.001	0.132	5.030	0.440	55.800
89	4.450	14.600	22.530	22.569	0.743	6.250	3.292	60.700
90	4.500	14.764	14.520	14.566	0.661	7.440	4.538	62.500
91	4.550	14.928	5.960	6.016	0.431	9.030	7.164	80.700
92	4.600	15.092	5.390	5.455	0.123	10.470	2.255	86.300
93	4.650	15.256	6.450	6.542	0.159	14.750	2.430	87.400
94	4.700	15.420	7.390	7.491	0.190	16.250	2.536	90.000
95	4.750	15.584	9.960	10.071	0.247	17.750	2.453	81.900
96	4.800	15.748	13.800	13.915	0.261	18.380	1.876	80.000
97	4.850	15.912	12.580	12.691	0.330	17.810	2.600	79.400
98	4.900	16.076	15.050	15.155	0.368	16.770	2.428	77.100
99	4.950	16.240	11.880	11.972	0.371	14.780	3.099	62.700
100	5.000	16.404	12.290	12.391	0.382	16.230	3.083	54.700
101	5.050	16.568	16.350	16.455	0.439	16.750	2.668	44.900
102	5.100	16.732	16.680	16.764	0.331	13.380	1.975	40.900
103	5.150	16.896	14.300	14.367	0.454	10.730	3.160	32.600
104	5.200	17.060	23.010	23.078	0.460	10.910	1.993	29.600
105	5.250	17.224	19.930	20.001	0.610	11.380	3.050	23.000
106	5.300	17.388	26.430	26.503	0.534	11.630	2.015	28.700
107	5.350	17.552	15.460	15.548	0.591	14.060	3.801	27.200
108	5.400	17.716	22.690	22.781	0.485	14.540	2.129	37.700
109	5.450	17.880	20.500	20.584	0.902	13.440	4.382	28.200
110	5.500	18.044	45.960	46.044	0.818	13.390	1.777	45.700
111	5.550	18.208	59.110	59.180	0.634	11.280	1.071	50.100
112	5.600	18.372	19.370	19.435	0.509	10.360	2.619	58.800
113	5.650	18.537	19.930	20.015	0.368	13.670	1.839	70.900
114	5.700	18.701	22.450	22.527	0.430	12.270	1.909	66.900
115	5.750	18.865	25.100	25.170	0.401	11.200	1.593	86.400
116	5.800	19.029	34.280	34.350	0.425	11.180	1.237	80.400
117	5.850	19.193	55.700	55.763	0.458	10.150	0.821	82.400
118	5.900	19.357	68.090	68.150	0.578	9.680	0.848	90.300
119	5.950	19.521	69.860	69.917	0.731	9.150	1.046	89.600
120	6.000	19.685	63.610	63.664	1.115	8.590	1.751	88.800
121	6.050	19.849	59.340	59.396	1.036	8.920	1.744	95.100
122	6.100	20.013	61.340	61.401	1.227	9.830	1.998	94.000
123	6.150	20.177	57.650	57.704	1.197	8.590	2.074	98.000
124	6.200	20.341	58.620	58.667	1.268	7.460	2.161	100.400
125	6.250	20.505	51.950	51.995	1.545	7.200	2.971	95.200
126	6.300	20.669	57.560	57.602	1.492	6.720	2.590	88.300
127	6.350	20.833	54.170	54.208	1.360	6.020	2.509	78.500
128	6.400	20.997	61.310	61.344	1.483	5.520	2.417	66.200
129	6.450	21.161	50.590	50.636	2.064	7.310	4.076	47.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	87.870	87.920	3.235	7.990	3.679	32.200
131	6.550	21.489	142.010	142.063	1.765	8.530	1.242	38.500
132	6.600	21.653	55.210	55.249	1.174	6.280	2.125	29.200
133	6.650	21.817	93.810	93.871	1.105	9.780	1.177	32.000
134	6.700	21.981	67.640	67.701	0.591	9.740	0.873	27.200
135	6.750	22.145	82.630	82.666	1.684	5.690	2.037	30.600
136	6.800	22.309	74.870	74.908	1.757	6.150	2.346	24.600
137	6.850	22.473	28.840	28.875	1.661	5.610	5.752	34.500
138	6.900	22.638	23.880	23.910	0.959	4.840	4.011	46.800
139	6.950	22.802	24.570	24.630	1.119	9.590	4.543	53.300
140	7.000	22.966	47.730	47.813	1.243	13.280	2.600	61.700
141	7.050	23.130	29.380	29.474	1.215	15.110	4.122	90.100
142	7.100	23.294	21.800	21.902	0.982	16.310	4.484	96.100
143	7.150	23.458	24.540	24.645	0.798	16.740	3.238	92.100
144	7.200	23.622	42.580	42.690	1.034	17.640	2.422	104.600
145	7.250	23.786	52.020	52.128	1.234	17.380	2.367	109.200
146	7.300	23.950	51.620	51.725	1.288	16.750	2.490	94.700
147	7.350	24.114	64.610	64.714	1.480	16.620	2.287	97.000
148	7.400	24.278	64.770	64.863	1.643	14.880	2.533	105.100
149	7.450	24.442	59.970	60.054	1.815	13.510	3.022	97.300
150	7.500	24.606	45.910	45.985	1.531	11.940	3.329	87.500
151	7.550	24.770	47.030	47.097	1.128	10.810	2.395	77.000
152	7.600	24.934	27.190	27.249	1.057	9.450	3.879	60.700
153	7.650	25.098	25.390	25.426	0.662	5.730	2.604	52.100
154	7.700	25.262	21.520	21.562	1.356	6.760	6.289	42.400
155	7.750	25.426	101.570	101.619	1.692	7.920	1.665	29.100
156	7.800	25.590	33.550	33.618	1.565	10.920	4.655	25.000
157	7.850	25.754	12.910	12.962	1.154	8.330	8.903	32.800
158	7.900	25.918	12.760	12.811	0.539	8.190	4.207	40.500
159	7.950	26.082	11.800	11.841	0.508	6.610	4.290	47.500
160	8.000	26.246	11.770	11.824	0.497	8.700	4.203	50.700
161	8.050	26.410	16.550	16.613	0.489	10.110	2.943	56.400
162	8.100	26.574	14.240	14.314	0.515	11.820	3.598	78.800
163	8.150	26.739	19.310	19.385	0.513	12.080	2.646	69.500
164	8.200	26.903	15.450	15.526	0.571	12.150	3.678	75.600
165	8.250	27.067	18.820	18.903	0.531	13.280	2.809	58.000
166	8.300	27.231	22.220	22.303	0.262	13.230	1.175	42.800
167	8.350	27.395	25.080	25.152	0.409	11.520	1.626	38.700
168	8.400	27.559	22.790	22.861	0.425	11.300	1.859	33.200
169	8.450	27.723	15.780	15.854	0.545	11.780	3.438	37.600
170	8.500	27.887	23.950	24.023	0.534	11.620	2.223	35.100
171	8.550	28.051	13.260	13.322	0.569	9.870	4.271	35.500
172	8.600	28.215	25.280	25.351	0.528	11.390	2.083	51.000
173	8.650	28.379	31.360	31.423	0.763	10.070	2.428	64.000
174	8.700	28.543	33.520	33.584	0.711	10.220	2.117	66.000
175	8.750	28.707	62.400	62.476	0.854	12.160	1.367	84.500
176	8.800	28.871	102.750	102.819	1.191	10.980	1.158	88.000
177	8.850	29.035	99.220	99.280	1.509	9.610	1.520	86.800
178	8.900	29.199	77.540	77.595	1.608	8.870	2.072	93.500
179	8.950	29.363	51.230	51.268	1.361	6.030	2.655	90.500
180	9.000	29.527	36.210	36.242	2.127	5.080	5.869	88.100
181	9.050	29.691	42.940	42.971	0.778	4.900	1.811	88.200
182	9.100	29.855	52.930	52.948	1.548	2.860	2.924	88.200
183	9.150	30.019	57.310	57.334	1.577	3.800	2.751	87.000
184	9.200	30.183	22.630	22.661	1.669	4.920	7.365	60.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	28.780	28.818	0.859	6.100	2.981	42.800
186	9.300	30.511	21.750	21.796	0.781	7.420	3.583	38.700
187	9.350	30.675	22.110	22.170	0.696	9.550	3.139	29.200
188	9.400	30.840	27.820	27.899	0.819	12.590	2.936	26.800
189	9.450	31.004	53.590	53.679	1.025	14.230	1.910	27.000
190	9.500	31.168	49.730	49.815	0.873	13.600	1.752	15.100
191	9.550	31.332	20.100	20.185	1.049	13.630	5.197	8.800
192	9.600	31.496	22.430	22.506	0.720	12.110	3.199	14.900
193	9.650	31.660	33.760	33.822	0.425	10.010	1.257	13.100
194	9.700	31.824	45.920	45.983	0.768	10.160	1.670	17.400
195	9.750	31.988	64.360	64.429	1.176	11.100	1.825	17.100
196	9.800	32.152	64.740	64.814	1.282	11.920	1.978	22.200
197	9.850	32.316	42.330	42.406	1.404	12.230	3.311	28.100
198	9.900	32.480	58.870	58.948	1.024	12.570	1.737	38.900
199	9.950	32.644	49.880	49.938	1.064	9.280	2.131	43.300
200	10.000	32.808	51.120	51.195	1.205	12.000	2.354	57.200
201	10.050	32.972	26.720	26.806	1.147	13.800	4.279	56.000
202	10.100	33.136	49.400	49.507	1.006	17.130	2.032	62.400
203	10.150	33.300	54.010	54.103	0.852	14.870	1.575	58.700
204	10.200	33.464	32.360	32.446	0.807	13.750	2.487	51.700
205	10.250	33.628	23.810	23.867	0.613	9.180	2.568	41.600
206	10.300	33.792	40.560	40.619	0.770	9.470	1.896	33.000
207	10.350	33.956	28.840	28.916	0.773	12.200	2.673	37.200
208	10.400	34.120	26.230	26.303	0.951	11.700	3.616	39.500
209	10.450	34.284	23.960	24.052	0.956	14.710	3.975	52.900
210	10.500	34.448	29.960	30.074	1.063	18.340	3.535	64.100
211	10.550	34.612	49.050	49.191	1.014	22.540	2.061	78.700
212	10.600	34.776	66.280	66.400	1.105	19.250	1.664	71.900
213	10.650	34.941	62.430	62.533	1.129	16.550	1.805	65.600
214	10.700	35.105	49.150	49.244	1.285	15.100	2.609	74.700
215	10.750	35.269	32.960	33.026	1.012	10.570	3.064	52.100
216	10.800	35.433	46.240	46.299	1.211	9.380	2.616	52.700
217	10.850	35.597	47.330	47.385	1.429	8.880	3.016	30.600
218	10.900	35.761	55.880	55.946	1.996	10.650	3.568	24.400
219	10.950	35.925	66.680	66.758	2.336	12.470	3.499	14.300
220	11.000	36.089	77.570	77.675	1.494	16.780	1.923	19.800
221	11.050	36.253	126.680	126.779	1.991	15.910	1.570	12.700
222	11.100	36.417	162.880	162.978	2.504	15.730	1.536	14.400
223	11.150	36.581	90.040	90.125	2.657	13.560	2.948	11.800
224	11.200	36.745	47.960	48.036	2.500	12.210	5.204	17.600
225	11.250	36.909	37.790	37.864	1.781	11.880	4.704	12.800
226	11.300	37.073	30.140	30.226	1.022	13.710	3.381	17.800
227	11.350	37.237	29.240	29.324	0.961	13.510	3.277	18.400
228	11.400	37.401	31.900	31.975	0.966	11.950	3.021	29.100
229	11.450	37.565	16.610	16.692	0.934	13.100	5.596	22.500
230	11.500	37.729	43.130	43.240	1.364	17.570	3.155	38.200
231	11.550	37.893	39.510	39.625	1.186	18.370	2.993	44.100
232	11.600	38.057	27.950	28.065	1.076	18.440	3.834	62.700
233	11.650	38.221	25.400	25.639	0.855	38.320	3.335	71.400
234	11.700	38.385	26.910	27.143	0.900	37.320	3.316	79.900
235	11.750	38.549	28.620	28.864	1.012	39.140	3.506	94.300
236	11.800	38.713	28.870	29.144	1.155	43.870	3.963	71.900
237	11.850	38.877	29.770	30.044	1.154	43.850	3.841	89.000
238	11.900	39.042	26.930	27.180	1.230	39.970	4.525	94.200
239	11.950	39.206	23.090	23.323	1.242	37.290	5.325	81.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	20.170	20.394	1.125	35.910	5.516	76.300
241	12.050	39.534	20.520	20.755	1.151	37.720	5.546	93.200
242	12.100	39.698	27.930	28.159	0.995	36.650	3.534	83.600
243	12.150	39.862	20.800	21.016	1.031	34.670	4.906	91.700
244	12.200	40.026	17.160	17.371	0.964	33.850	5.549	97.600
245	12.250	40.190	14.720	14.925	0.772	32.820	5.173	93.600
246	12.300	40.354	12.840	13.045	0.693	32.890	5.312	84.400
247	12.350	40.518	12.510	12.716	0.606	33.010	4.766	80.000
248	12.400	40.682	12.490	12.696	0.572	32.960	4.505	79.500
249	12.450	40.846	11.090	11.291	0.584	32.220	5.172	79.200
250	12.500	41.010	20.160	20.366	0.623	32.940	3.059	76.200
251	12.550	41.174	49.740	49.942	0.535	32.320	1.071	76.800
252	12.600	41.338	58.030	58.221	0.960	30.630	1.649	73.200
253	12.650	41.502	53.280	53.453	1.292	27.660	2.417	72.200
254	12.700	41.666	23.890	24.059	1.535	27.150	6.380	64.900
255	12.750	41.830	38.070	38.255	1.403	29.690	3.667	56.400
256	12.800	41.994	63.520	63.717	1.675	31.530	2.629	42.000
257	12.850	42.158	66.460	66.630	1.867	27.180	2.802	43.700
258	12.900	42.322	75.660	75.834	1.975	27.860	2.604	45.100
259	12.950	42.486	58.950	59.115	1.949	26.390	3.297	60.400
260	13.000	42.650	33.220	33.385	1.362	26.470	4.080	68.200
261	13.050	42.814	22.960	23.160	0.918	31.990	3.964	73.000
262	13.100	42.978	27.750	28.001	0.713	40.190	2.546	80.700
263	13.150	43.143	22.010	22.256	0.613	39.360	2.754	81.900
264	13.200	43.307	16.520	16.785	0.592	42.400	3.527	86.600
265	13.250	43.471	17.830	18.096	0.512	42.630	2.829	82.800
266	13.300	43.635	18.820	19.095	0.606	44.050	3.174	80.900
267	13.350	43.799	21.410	21.686	0.599	44.190	2.762	60.200
268	13.400	43.963	29.470	29.729	0.539	41.440	1.813	72.200
269	13.450	44.127	35.090	35.292	0.494	32.360	1.400	74.000
270	13.500	44.291	33.870	34.057	0.506	29.930	1.486	69.700
271	13.550	44.455	36.290	36.466	0.833	28.230	2.284	59.100
272	13.600	44.619	43.560	43.730	0.925	27.220	2.115	43.500
273	13.650	44.783	67.300	67.439	1.209	22.330	1.793	27.500
274	13.700	44.947	44.750	44.912	1.511	25.950	3.364	25.900
275	13.750	45.111	57.670	57.815	2.315	23.260	4.004	17.600
276	13.800	45.275	83.850	83.984	3.033	21.500	3.611	19.800
277	13.850	45.439	119.320	119.461	4.527	22.550	3.790	15.900
278	13.900	45.603	178.070	178.215	4.726	23.280	2.652	17.900
279	13.950	45.767	118.360	118.506	5.051	23.380	4.262	16.600
280	14.000	45.931	76.530	76.685	5.962	24.790	7.775	18.400
281	14.050	46.095	111.270	111.427	5.562	25.070	4.992	19.800
282	14.100	46.259	53.820	53.933	3.737	18.070	6.929	23.600
283	14.150	46.423	39.550	39.653	1.916	16.520	4.832	23.600
284	14.200	46.587	82.920	83.060	1.714	22.420	2.064	23.400
285	14.250	46.751	103.170	103.300	1.673	20.850	1.620	26.300
286	14.300	46.915	82.670	82.812	2.348	22.730	2.835	31.000
287	14.350	47.079	53.500	53.630	2.141	20.760	3.992	30.300
288	14.400	47.244	59.170	59.305	1.885	21.600	3.178	25.900
289	14.450	47.408	51.730	51.869	1.226	22.220	2.364	20.700
290	14.500	47.572	45.280	45.416	1.251	21.770	2.755	22.200
291	14.550	47.736	62.160	62.251	1.352	14.540	2.172	22.100
292	14.600	47.900	67.230	67.321	1.497	14.540	2.224	26.000
293	14.650	48.064	49.250	49.364	1.419	18.220	2.875	26.500
294	14.700	48.228	19.190	19.309	1.514	19.110	7.841	24.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	27.350	27.521	1.365	27.390	4.960	17.700
296	14.800	48.556	110.940	111.087	1.657	23.500	1.492	15.900
297	14.850	48.720	77.930	78.048	3.776	18.930	4.838	14.000
298	14.900	48.884	78.470	78.606	3.140	21.800	3.995	11.800
299	14.950	49.048	96.300	96.414	3.540	18.190	3.672	12.100
300	15.000	49.212	175.570	175.697	4.793	20.300	2.728	12.400
301	15.050	49.376	98.010	98.130	5.306	19.250	5.407	11.100
302	15.100	49.540	83.430	83.524	4.353	15.060	5.212	10.800
303	15.150	49.704	81.470	81.569	2.524	15.810	3.094	12.500
304	15.200	49.868	69.820	69.925	0.965	16.780	1.380	10.300
305	15.250	50.032	71.860	72.032	1.542	27.490	2.141	15.600
306	15.300	50.196	83.460	83.634	2.103	27.930	2.515	12.700
307	15.350	50.360	76.930	77.104	1.500	27.810	1.945	16.300
308	15.400	50.524	64.480	64.694	1.879	34.220	2.904	22.700
309	15.450	50.688	67.470	67.667	1.843	31.610	2.724	26.400
310	15.500	50.852	60.160	60.371	2.057	33.740	3.407	28.400
311	15.550	51.016	57.010	57.211	1.680	32.170	2.937	42.600
312	15.600	51.180	43.170	43.373	1.676	32.530	3.864	40.200
313	15.650	51.345	59.230	59.352	1.853	19.490	3.122	43.900
314	15.700	51.509	73.850	73.981	1.930	20.950	2.609	41.700
315	15.750	51.673	91.540	91.677	2.492	22.020	2.718	33.400
316	15.800	51.837	97.180	97.324	2.955	23.140	3.036	33.100
317	15.850	52.001	86.800	86.949	3.152	23.930	3.625	37.300
318	15.900	52.165	80.600	80.761	3.203	25.790	3.966	41.400
319	15.950	52.329	81.120	81.301	3.010	28.980	3.702	53.500
320	16.000	52.493	81.110	81.310	2.731	32.080	3.359	66.800
321	16.050	52.657	62.780	62.973	2.494	30.920	3.960	78.600
322	16.100	52.821	50.250	50.481	2.019	36.990	4.000	79.600
323	16.150	52.985	47.890	48.122	1.958	37.210	4.069	82.100
324	16.200	53.149	46.640	46.875	1.774	37.700	3.785	92.900
325	16.250	53.313	48.280	48.512	1.170	37.090	2.412	75.800
326	16.300	53.477	49.340	49.529	1.212	30.320	2.447	73.100
327	16.350	53.641	44.320	44.478	0.805	25.370	1.810	59.300
328	16.400	53.805	24.420	24.572	0.948	24.350	3.858	51.700
329	16.450	53.969	21.940	22.090	0.932	24.010	4.219	44.800
330	16.500	54.133	31.530	31.679	1.325	23.820	4.183	35.600
331	16.550	54.297	28.070	28.216	0.841	23.370	2.981	32.900
332	16.600	54.461	64.690	64.814	1.008	19.910	1.555	22.300
333	16.650	54.625	52.410	52.555	1.071	23.290	2.038	24.300
334	16.700	54.789	40.330	40.471	1.059	22.640	2.617	26.600
335	16.750	54.953	42.260	42.399	1.240	22.320	2.925	18.200
336	16.800	55.117	52.120	52.258	1.138	22.180	2.178	21.100
337	16.850	55.281	31.700	31.841	1.443	22.620	4.532	22.100
338	16.900	55.446	43.310	43.459	1.345	23.910	3.095	17.600
339	16.950	55.610	29.630	29.779	1.173	23.790	3.939	26.200
340	17.000	55.774	19.170	19.302	1.177	21.130	6.098	30.600
341	17.050	55.938	37.730	37.882	1.303	24.410	3.440	43.600
342	17.100	56.102	62.330	62.498	1.689	26.950	2.702	53.200
343	17.150	56.266	36.020	36.168	1.658	23.750	4.584	68.200
344	17.200	56.430	16.450	16.616	0.944	26.650	5.681	73.800
345	17.250	56.594	21.960	22.142	0.576	29.120	2.601	86.400
346	17.300	56.758	25.610	25.821	0.627	33.750	2.428	80.100
347	17.350	56.922	27.240	27.460	0.708	35.250	2.578	86.900
348	17.400	57.086	26.700	26.932	0.810	37.230	3.008	83.400
349	17.450	57.250	24.240	24.473	0.833	37.310	3.404	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
350	17.500	57.414	28.240	28.478	0.860	38.130	3.020	0.000
351	17.550	57.578	38.680	38.907	0.977	36.420	2.511	0.000
352	17.600	57.742	62.760	62.975	0.807	34.410	1.281	0.000
353	17.650	57.906	78.720	78.863	0.713	22.980	0.904	0.000
354	17.700	58.070	62.780	62.919	0.887	22.340	1.410	0.000
355	17.750	58.234	65.200	65.340	2.488	22.450	3.808	0.000
356	17.800	58.398	126.610	126.753	2.793	22.980	2.203	0.000
357	17.850	58.562	82.290	82.447	2.773	25.200	3.363	0.000
358	17.900	58.726	99.780	99.965	3.515	29.630	3.516	0.000
359	17.950	58.890	115.710	115.908	3.441	31.750	2.969	0.000
360	18.000	59.054	91.570	91.750	3.325	28.800	3.624	0.000
361	18.050	59.218	65.460	65.642	2.639	29.160	4.020	0.000
362	18.100	59.382	100.630	100.808	2.120	28.440	2.103	0.000
363	18.150	59.547	108.500	108.669	0.000	27.070	0.000	0.000
364	18.200	59.711	206.910	207.077	0.000	26.710	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221614
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-7
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	08:12
CPT File:	13-53075_GP13-7.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722292.296
Northing / Lat:	4294306.278
Elevation:	144.437
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	17.290	17.293	0.001	0.540	0.006	38.400
2	0.100	0.328	19.380	19.381	0.001	0.170	0.005	43.900
3	0.150	0.492	20.780	20.782	0.002	0.300	0.010	53.800
4	0.200	0.656	31.980	31.980	0.001	-0.030	0.003	63.800
5	0.250	0.820	45.010	45.022	0.002	1.900	0.004	74.600
6	0.300	0.984	28.320	28.321	0.213	0.240	0.752	81.500
7	0.350	1.148	17.680	17.681	0.378	0.150	2.138	84.200
8	0.400	1.312	18.580	18.580	0.605	-0.070	3.256	89.900
9	0.450	1.476	18.250	18.251	0.621	0.170	3.403	89.000
10	0.500	1.640	138.270	138.272	0.496	0.340	0.359	99.400
11	0.550	1.804	166.250	166.250	1.032	-0.060	0.621	85.800
12	0.600	1.968	98.750	98.751	1.503	0.130	1.522	87.300
13	0.650	2.133	104.700	104.701	2.342	0.230	2.237	81.000
14	0.700	2.297	235.520	235.521	3.568	0.100	1.515	74.000
15	0.750	2.461	299.120	299.117	3.849	-0.530	1.287	70.000
16	0.800	2.625	319.540	319.553	2.521	2.010	0.789	69.000
17	0.850	2.789	281.540	281.562	4.094	3.520	1.454	66.600
18	0.900	2.953	240.620	240.615	4.084	-0.730	1.697	62.000
19	0.950	3.117	176.620	176.636	3.964	2.590	2.244	77.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	127.520	127.531	3.177	1.790	2.491	73.000
21	1.050	3.445	93.260	93.292	2.846	5.140	3.051	79.900
22	1.100	3.609	77.940	77.944	2.851	0.720	3.658	79.400
23	1.150	3.773	69.960	69.994	2.393	5.470	3.419	79.700
24	1.200	3.937	63.360	63.398	2.048	6.070	3.230	85.400
25	1.250	4.101	51.300	51.349	1.638	7.920	3.190	83.200
26	1.300	4.265	47.170	47.200	1.493	4.730	3.163	85.000
27	1.350	4.429	37.890	37.911	1.060	3.340	2.796	76.400
28	1.400	4.593	29.630	29.645	0.889	2.380	2.999	80.000
29	1.450	4.757	30.290	30.286	0.656	-0.570	2.166	82.800
30	1.500	4.921	17.760	17.759	0.518	-0.090	2.917	86.000
31	1.550	5.085	17.430	17.466	0.428	5.780	2.450	83.200
32	1.600	5.249	11.130	11.125	0.332	-0.860	2.984	80.900
33	1.650	5.413	10.110	10.102	0.273	-1.320	2.702	88.700
34	1.700	5.577	9.300	9.292	0.230	-1.210	2.475	83.600
35	1.750	5.741	10.910	10.903	0.232	-1.170	2.128	95.400
36	1.800	5.905	10.140	10.127	0.233	-2.040	2.301	92.400
37	1.850	6.069	6.060	6.051	0.224	-1.380	3.702	95.800
38	1.900	6.234	6.220	6.215	0.185	-0.800	2.977	90.300
39	1.950	6.398	17.520	17.500	0.139	-3.190	0.794	82.800
40	2.000	6.562	18.850	18.829	0.358	-3.380	1.901	78.900
41	2.050	6.726	15.390	15.365	0.429	-3.930	2.792	84.300
42	2.100	6.890	4.750	4.745	0.342	-0.880	7.208	80.900
43	2.150	7.054	48.380	48.391	0.537	1.840	1.110	80.800
44	2.200	7.218	41.190	41.176	0.920	-2.260	2.234	76.400
45	2.250	7.382	7.240	7.227	0.847	-2.030	11.719	72.000
46	2.300	7.546	10.710	10.716	0.390	0.900	3.640	70.000
47	2.350	7.710	5.650	5.649	0.523	-0.130	9.258	75.300
48	2.400	7.874	4.920	4.936	0.272	2.550	5.511	74.300
49	2.450	8.038	47.470	47.503	0.502	5.360	1.057	70.800
50	2.500	8.202	52.340	52.342	0.411	0.350	0.785	70.700
51	2.550	8.366	34.040	34.038	0.531	-0.350	1.560	73.300
52	2.600	8.530	26.790	26.795	0.673	0.770	2.512	76.400
53	2.650	8.694	7.150	7.160	0.633	1.670	8.840	76.400
54	2.700	8.858	7.890	7.919	0.660	4.570	8.335	98.800
55	2.750	9.022	7.330	7.372	0.658	6.660	8.926	77.700
56	2.800	9.186	7.430	7.470	0.682	6.390	9.130	73.200
57	2.850	9.350	8.900	8.948	0.718	7.730	8.024	66.400
58	2.900	9.514	30.160	30.224	1.540	10.260	5.095	59.100
59	2.950	9.678	65.010	65.016	1.498	1.010	2.304	51.900
60	3.000	9.842	100.100	100.030	2.063	-11.160	2.062	48.300
61	3.050	10.006	87.990	87.895	2.329	-15.140	2.650	55.800
62	3.100	10.170	71.390	71.326	2.442	-10.230	3.424	53.600
63	3.150	10.335	91.790	91.759	3.230	-5.020	3.520	58.000
64	3.200	10.499	88.200	88.154	3.043	-7.340	3.452	62.200
65	3.250	10.663	49.660	49.631	2.349	-4.680	4.733	66.200
66	3.300	10.827	56.400	56.414	2.270	2.180	4.024	65.400
67	3.350	10.991	80.610	80.695	4.889	13.650	6.059	75.100
68	3.400	11.155	116.410	116.449	4.568	6.220	3.923	58.900
69	3.450	11.319	210.630	210.769	6.471	22.290	3.070	67.200
70	3.500	11.483	236.030	236.055	3.734	3.940	1.582	65.100
71	3.550	11.647	160.700	160.707	5.524	1.190	3.437	66.500
72	3.600	11.811	145.750	145.754	4.184	0.570	2.871	0.000
73	3.650	11.975	100.600	100.624	3.492	3.780	3.470	0.000
74	3.700	12.139	105.100	105.252	4.002	24.400	3.802	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	111.480	111.520	0.900	6.370	0.807	0.000
76	3.800	12.467	201.850	201.868	0.765	2.900	0.379	0.000
77	3.850	12.631	200.400	200.412	0.670	1.930	0.334	0.000
78	3.900	12.795	113.450	113.463	0.594	2.010	0.524	0.000
79	3.950	12.959	70.840	70.843	0.448	0.410	0.632	0.000
80	4.000	13.123	42.560	42.565	0.603	0.730	1.417	0.000
81	4.050	13.287	29.790	29.799	0.799	1.370	2.681	0.000
82	4.100	13.451	19.140	19.177	0.566	5.910	2.951	0.000
83	4.150	13.615	16.630	16.698	1.316	10.970	7.881	0.000
84	4.200	13.779	13.740	13.819	1.549	12.610	11.209	0.000
85	4.250	13.943	237.550	237.628	1.111	12.420	0.468	0.000
86	4.300	14.107	333.160	333.198	0.000	6.150	0.000	0.000
87	4.350	14.271	454.290	454.290	0.000	-0.020	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221616
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-13-7S
Cone ID:	410:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-06-2014
CPT Time:	16:08
CPT File:	13-53075_GP13-7S.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722291.895
Northing / Lat:	4294306.321
Elevation:	144.408
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.460	1.456	0.003	-0.570	0.206	24.800
2	0.100	0.328	1.400	1.401	0.002	0.170	0.143	30.500
3	0.150	0.492	1.000	1.007	0.001	1.180	0.099	36.300
4	0.200	0.656	1.980	1.992	0.003	1.920	0.151	44.100
5	0.250	0.820	3.340	3.349	0.008	1.500	0.239	41.500
6	0.300	0.984	4.080	4.087	0.007	1.110	0.171	59.300
7	0.350	1.148	5.220	5.225	0.002	0.850	0.038	63.300
8	0.400	1.312	5.420	5.424	0.001	0.630	0.018	61.200
9	0.450	1.476	5.130	5.129	0.002	-0.200	0.039	67.800
10	0.500	1.640	4.560	4.565	0.003	0.760	0.066	71.300
11	0.550	1.804	5.670	5.673	0.003	0.490	0.053	62.400
12	0.600	1.968	7.590	7.592	0.002	0.380	0.026	65.500
13	0.650	2.133	11.200	11.206	0.002	0.900	0.018	67.100
14	0.700	2.297	19.710	19.722	0.032	1.870	0.162	62.800
15	0.750	2.461	26.580	26.593	0.049	2.080	0.184	72.900
16	0.800	2.625	23.730	23.734	0.063	0.720	0.265	64.200
17	0.850	2.789	27.810	27.815	0.049	0.730	0.176	64.100
18	0.900	2.953	36.630	36.638	0.038	1.220	0.104	48.900
19	0.950	3.117	46.450	46.460	0.039	1.550	0.084	56.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	55.340	55.350	0.043	1.670	0.078	48.900
21	1.050	3.445	65.410	65.422	0.090	1.850	0.138	51.800
22	1.100	3.609	73.680	73.690	0.161	1.640	0.218	65.700
23	1.150	3.773	82.660	82.671	0.246	1.780	0.298	60.900
24	1.200	3.937	93.480	93.496	0.294	2.520	0.314	57.800
25	1.250	4.101	82.450	82.457	0.270	1.160	0.327	60.200
26	1.300	4.265	56.060	56.056	0.235	-0.570	0.419	79.700
27	1.350	4.429	41.370	41.363	0.182	-1.150	0.440	65.900
28	1.400	4.593	34.080	34.073	0.129	-1.050	0.379	75.400
29	1.450	4.757	28.060	28.052	0.091	-1.310	0.324	76.300
30	1.500	4.921	24.900	24.924	0.069	3.780	0.277	78.200
31	1.550	5.085	21.810	21.817	0.061	1.080	0.280	69.700
32	1.600	5.249	17.510	17.509	0.049	-0.230	0.280	79.200
33	1.650	5.413	14.500	14.496	0.039	-0.710	0.269	75.900
34	1.700	5.577	12.280	12.276	0.037	-0.690	0.301	64.000
35	1.750	5.741	10.670	10.666	0.033	-0.570	0.309	74.300
36	1.800	5.905	9.890	9.888	0.019	-0.340	0.192	82.000
37	1.850	6.069	9.430	9.427	0.017	-0.440	0.180	83.200
38	1.900	6.234	9.030	9.028	0.019	-0.300	0.210	77.600
39	1.950	6.398	8.960	8.959	0.020	-0.200	0.223	87.800
40	2.000	6.562	8.190	8.187	0.022	-0.490	0.269	82.800
41	2.050	6.726	7.690	7.688	0.020	-0.340	0.260	84.200
42	2.100	6.890	7.050	7.047	0.008	-0.490	0.114	67.900
43	2.150	7.054	5.980	5.977	0.005	-0.410	0.084	65.600
44	2.200	7.218	3.720	3.713	0.003	-1.150	0.081	61.600
45	2.250	7.382	1.900	1.892	0.006	-1.350	0.317	60.000
46	2.300	7.546	1.190	1.182	0.006	-1.340	0.508	57.900
47	2.350	7.710	1.260	1.257	0.001	-0.550	0.080	59.900
48	2.400	7.874	1.280	1.279	0.005	-0.200	0.391	49.800
49	2.450	8.038	1.700	1.697	0.008	-0.560	0.472	51.300
50	2.500	8.202	1.200	1.200	0.005	-0.080	0.417	57.000
51	2.550	8.366	1.580	1.589	0.010	1.450	0.629	48.100
52	2.600	8.530	1.880	1.887	0.002	1.160	0.106	61.900
53	2.650	8.694	1.880	1.890	0.004	1.680	0.212	56.100
54	2.700	8.858	1.480	1.490	0.005	1.630	0.336	60.400
55	2.750	9.022	1.200	1.212	0.011	1.970	0.907	51.500
56	2.800	9.186	1.060	1.075	0.003	2.430	0.279	47.700
57	2.850	9.350	2.990	3.017	0.002	4.270	0.066	45.600
58	2.900	9.514	6.610	6.661	0.002	8.150	0.030	43.800
59	2.950	9.678	9.860	9.882	0.002	3.470	0.020	42.600
60	3.000	9.842	10.870	10.892	0.005	3.540	0.046	53.900
61	3.050	10.006	9.770	9.791	0.002	3.410	0.020	42.900
62	3.100	10.170	6.350	6.365	0.003	2.390	0.047	47.200
63	3.150	10.335	4.450	4.464	0.007	2.310	0.157	44.900
64	3.200	10.499	2.820	2.833	0.007	2.050	0.247	40.100
65	3.250	10.663	1.810	1.826	0.008	2.600	0.438	35.200
66	3.300	10.827	1.480	1.501	0.006	3.290	0.400	36.100
67	3.350	10.991	1.310	1.335	0.008	3.930	0.599	26.700
68	3.400	11.155	1.330	1.352	0.006	3.560	0.444	21.800
69	3.450	11.319	1.450	1.477	0.005	4.330	0.339	25.900
70	3.500	11.483	1.720	1.749	0.015	4.580	0.858	26.200
71	3.550	11.647	1.500	1.528	0.004	4.470	0.262	32.300
72	3.600	11.811	1.300	1.334	0.002	5.390	0.150	36.100
73	3.650	11.975	4.000	4.031	0.003	4.920	0.074	33.100
74	3.700	12.139	5.590	5.630	0.002	6.410	0.036	36.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	8.960	9.006	0.001	7.410	0.011	28.800
76	3.800	12.467	10.690	10.730	0.004	6.390	0.037	33.500
77	3.850	12.631	10.520	10.556	0.005	5.740	0.047	35.400
78	3.900	12.795	8.820	8.855	0.003	5.680	0.034	45.200
79	3.950	12.959	6.550	6.599	0.003	7.850	0.045	36.400
80	4.000	13.123	4.340	4.380	0.002	6.430	0.046	49.200
81	4.050	13.287	2.900	2.942	0.005	6.720	0.170	54.200
82	4.100	13.451	3.040	3.083	0.001	6.860	0.032	53.900
83	4.150	13.615	5.310	5.366	0.009	8.920	0.168	57.900
84	4.200	13.779	8.290	8.324	0.196	5.450	2.355	55.100
85	4.250	13.943	2.780	2.821	0.026	6.630	0.922	51.100
86	4.300	14.107	1.460	1.520	0.071	9.610	4.671	45.200
87	4.350	14.271	2.900	2.979	0.038	12.690	1.276	48.100
88	4.400	14.436	9.330	9.407	0.081	12.390	0.861	52.800
89	4.450	14.600	8.840	8.928	0.058	14.170	0.650	49.600
90	4.500	14.764	5.100	5.159	0.041	9.530	0.795	45.000
91	4.550	14.928	2.650	2.699	0.049	7.920	1.815	44.600
92	4.600	15.092	3.270	3.320	0.032	8.010	0.964	40.600
93	4.650	15.256	3.770	3.821	0.031	8.210	0.811	43.600
94	4.700	15.420	5.390	5.459	0.048	11.090	0.879	47.400
95	4.750	15.584	6.140	6.203	0.072	10.050	1.161	48.500
96	4.800	15.748	7.180	7.237	0.211	9.110	2.916	35.800
97	4.850	15.912	13.070	13.143	0.386	11.770	2.937	38.700
98	4.900	16.076	38.830	38.916	0.776	13.850	1.994	46.300
99	4.950	16.240	66.640	66.659	1.094	2.980	1.641	40.900
100	5.000	16.404	49.450	49.553	1.334	16.500	2.692	53.300
101	5.050	16.568	49.080	49.189	1.137	17.510	2.311	55.400
102	5.100	16.732	19.600	19.650	0.622	8.060	3.165	56.800
103	5.150	16.896	7.510	7.789	0.547	44.630	7.023	66.300
104	5.200	17.060	13.190	13.337	0.909	23.480	6.816	66.800
105	5.250	17.224	47.550	47.651	1.176	16.200	2.468	81.400
106	5.300	17.388	60.450	60.459	1.383	1.430	2.288	74.100
107	5.350	17.552	47.360	47.342	0.920	-2.940	1.943	83.600
108	5.400	17.716	17.560	17.658	0.777	15.630	4.400	86.900
109	5.450	17.880	17.580	18.063	0.361	77.360	1.999	86.100
110	5.500	18.044	20.820	20.954	0.419	21.450	2.000	70.200
111	5.550	18.208	12.830	12.894	0.403	10.190	3.126	68.500
112	5.600	18.372	11.150	11.178	0.339	4.410	3.033	66.700
113	5.650	18.537	34.340	34.404	0.294	10.200	0.855	43.700
114	5.700	18.701	28.650	28.700	0.797	8.000	2.777	51.200
115	5.750	18.865	81.310	81.449	0.544	22.310	0.668	54.900
116	5.800	19.029	72.100	72.170	0.339	11.140	0.470	46.400
117	5.850	19.193	38.720	38.804	0.267	13.500	0.688	71.000
118	5.900	19.357	22.210	22.386	0.233	28.240	1.041	83.300
119	5.950	19.521	21.570	21.746	0.253	28.270	1.163	82.500
120	6.000	19.685	24.320	24.632	0.270	49.910	1.096	79.200
121	6.050	19.849	25.740	25.948	0.402	33.260	1.549	85.600
122	6.100	20.013	24.480	24.569	0.435	14.320	1.770	96.200
123	6.150	20.177	28.000	28.079	0.540	12.640	1.923	92.100
124	6.200	20.341	27.020	27.063	0.573	6.880	2.117	95.900
125	6.250	20.505	24.960	24.996	0.607	5.840	2.428	70.700
126	6.300	20.669	24.300	24.340	0.470	6.350	1.931	84.700
127	6.350	20.833	22.500	22.542	0.436	6.730	1.934	106.100
128	6.400	20.997	22.470	22.524	0.404	8.570	1.794	88.800
129	6.450	21.161	24.170	24.289	0.468	19.090	1.927	80.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	30.210	30.378	0.479	26.930	1.577	73.700
131	6.550	21.489	30.100	30.290	0.481	30.500	1.588	72.500
132	6.600	21.653	25.500	25.612	0.532	17.870	2.077	61.700
133	6.650	21.817	36.240	36.475	0.544	37.660	1.491	62.300
134	6.700	21.981	40.180	40.300	0.314	19.300	0.779	35.200
135	6.750	22.145	60.980	61.028	0.569	7.680	0.932	39.500
136	6.800	22.309	57.200	57.288	0.679	14.040	1.185	32.400
137	6.850	22.473	44.860	45.107	0.981	39.490	2.175	34.200
138	6.900	22.638	41.260	41.500	0.803	38.510	1.935	29.300
139	6.950	22.802	47.720	47.988	0.743	42.990	1.548	38.400
140	7.000	22.966	63.270	63.368	0.873	15.630	1.378	36.800
141	7.050	23.130	63.330	63.424	0.893	15.120	1.408	44.500
142	7.100	23.294	43.570	43.700	0.789	20.890	1.805	47.700
143	7.150	23.458	39.600	39.696	0.523	15.370	1.318	52.700
144	7.200	23.622	31.610	31.727	0.318	18.820	1.002	59.300
145	7.250	23.786	28.590	28.710	0.206	19.150	0.718	66.100
146	7.300	23.950	32.660	32.850	0.241	30.370	0.734	76.600
147	7.350	24.114	38.820	38.910	0.217	14.470	0.558	76.100
148	7.400	24.278	33.140	33.173	0.293	5.300	0.883	54.700
149	7.450	24.442	39.940	39.961	0.329	3.380	0.823	36.200
150	7.500	24.606	39.140	39.166	0.486	4.190	1.241	29.100
151	7.550	24.770	36.780	36.848	0.443	10.900	1.202	28.200
152	7.600	24.934	46.530	46.625	0.428	15.170	0.918	15.500
153	7.650	25.098	54.720	54.811	0.612	14.520	1.117	15.900
154	7.700	25.262	50.910	51.000	0.738	14.400	1.447	21.000
155	7.750	25.426	44.130	44.257	0.883	20.300	1.995	17.300
156	7.800	25.590	37.740	37.854	0.988	18.240	2.610	29.600
157	7.850	25.754	26.520	26.613	0.819	14.950	3.077	39.700
158	7.900	25.918	21.070	21.184	0.544	18.210	2.568	42.600
159	7.950	26.082	27.550	27.674	0.526	19.870	1.901	50.100
160	8.000	26.246	34.240	34.422	0.575	29.210	1.670	50.000
161	8.050	26.410	21.320	21.512	0.747	30.800	3.472	37.400
162	8.100	26.574	38.410	38.640	0.939	36.790	2.430	34.900
163	8.150	26.739	75.670	75.866	1.589	31.390	2.094	26.600
164	8.200	26.903	74.750	74.841	1.973	14.520	2.636	24.400
165	8.250	27.067	46.790	46.873	2.075	13.340	4.427	23.300
166	8.300	27.231	45.050	45.352	1.577	48.360	3.477	22.800
167	8.350	27.395	68.160	68.282	1.571	19.490	2.301	18.600
168	8.400	27.559	51.460	51.575	1.651	18.500	3.201	27.000
169	8.450	27.723	39.630	39.744	1.475	18.290	3.711	24.400
170	8.500	27.887	54.220	54.252	1.271	5.100	2.343	25.700
171	8.550	28.051	78.550	78.723	1.135	27.720	1.442	34.800
172	8.600	28.215	57.260	57.366	1.246	16.970	2.172	38.000
173	8.650	28.379	43.730	43.819	1.180	14.180	2.693	27.800
174	8.700	28.543	32.540	32.627	0.690	13.900	2.115	34.300
175	8.750	28.707	34.020	34.114	0.292	15.070	0.856	40.000
176	8.800	28.871	79.800	79.916	0.978	18.610	1.224	31.600
177	8.850	29.035	89.270	89.365	1.144	15.170	1.280	41.400
178	8.900	29.199	63.400	63.476	1.541	12.110	2.428	55.200
179	8.950	29.363	44.520	44.607	1.228	13.900	2.753	65.900
180	9.000	29.527	23.950	24.193	1.315	38.900	5.435	71.100
181	9.050	29.691	66.250	66.701	1.238	72.270	1.856	82.400
182	9.100	29.855	79.180	79.317	1.728	21.980	2.179	76.300
183	9.150	30.019	100.290	100.335	2.039	7.170	2.032	77.100
184	9.200	30.183	144.010	144.042	1.902	5.110	1.320	71.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	174.580	174.606	2.249	4.090	1.288	78.000
186	9.300	30.511	195.540	195.563	2.378	3.720	1.216	67.800
187	9.350	30.675	202.980	203.004	2.675	3.830	1.318	67.300
188	9.400	30.840	182.710	182.732	2.265	3.460	1.240	75.800
189	9.450	31.004	160.710	160.729	2.927	3.050	1.821	62.000
190	9.500	31.168	152.910	152.930	2.240	3.150	1.465	48.900
191	9.550	31.332	193.350	193.391	2.053	6.490	1.062	34.700
192	9.600	31.496	191.460	191.552	2.266	14.790	1.183	33.100
193	9.650	31.660	137.060	137.197	2.698	21.870	1.967	33.600
194	9.700	31.824	122.630	122.762	2.156	21.200	1.756	51.700
195	9.750	31.988	87.570	87.748	1.855	28.540	2.114	55.700
196	9.800	32.152	41.800	41.918	1.453	18.960	3.466	74.900
197	9.850	32.316	33.450	33.687	0.709	37.990	2.105	82.600
198	9.900	32.480	29.730	29.922	0.615	30.770	2.055	81.000
199	9.950	32.644	26.950	27.048	0.656	15.700	2.425	96.600
200	10.000	32.808	23.920	23.993	0.693	11.680	2.888	75.800
201	10.050	32.972	21.090	21.145	0.569	8.770	2.691	81.600
202	10.100	33.136	34.030	34.089	0.738	9.440	2.165	83.200
203	10.150	33.300	47.230	47.310	0.789	12.860	1.668	89.000
204	10.200	33.464	50.920	51.104	0.955	29.540	1.869	89.600
205	10.250	33.628	51.630	51.764	1.269	21.530	2.451	101.700
206	10.300	33.792	56.570	56.682	1.437	17.940	2.535	101.600
207	10.350	33.956	57.780	57.881	1.465	16.160	2.531	85.100
208	10.400	34.120	45.770	45.853	1.530	13.230	3.337	87.000
209	10.450	34.284	38.570	38.617	1.185	7.540	3.069	90.900
210	10.500	34.448	31.220	31.258	0.767	6.020	2.454	88.500
211	10.550	34.612	35.510	35.606	0.681	15.450	1.913	81.500
212	10.600	34.776	39.240	39.378	0.726	22.160	1.844	77.300
213	10.650	34.941	34.940	35.049	0.856	17.480	2.442	68.500
214	10.700	35.105	43.070	43.134	1.008	10.290	2.337	74.000
215	10.750	35.269	40.740	40.893	0.915	24.480	2.238	85.800
216	10.800	35.433	25.390	25.473	0.770	13.260	3.023	84.100
217	10.850	35.597	24.730	24.832	0.597	16.350	2.404	98.300
218	10.900	35.761	35.490	35.628	0.925	22.060	2.596	95.600
219	10.950	35.925	53.460	53.555	1.543	15.150	2.881	84.300
220	11.000	36.089	65.080	65.158	1.889	12.550	2.899	82.800
221	11.050	36.253	79.860	79.934	2.091	11.890	2.616	83.500
222	11.100	36.417	76.550	76.610	1.635	9.630	2.134	79.600
223	11.150	36.581	30.270	30.377	1.464	17.180	4.819	89.400
224	11.200	36.745	57.340	57.459	1.261	19.090	2.195	74.600
225	11.250	36.909	56.570	56.687	1.375	18.690	2.426	66.000
226	11.300	37.073	53.660	53.755	1.906	15.190	3.546	57.900
227	11.350	37.237	81.190	81.288	1.607	15.770	1.977	63.300
228	11.400	37.401	48.130	48.236	1.730	17.000	3.587	83.300
229	11.450	37.565	39.780	39.870	1.105	14.440	2.771	82.400
230	11.500	37.729	23.210	23.312	0.837	16.400	3.590	82.300
231	11.550	37.893	27.210	27.354	0.709	23.090	2.592	84.000
232	11.600	38.057	30.230	30.350	0.782	19.250	2.577	90.300
233	11.650	38.221	32.180	32.300	0.829	19.160	2.567	82.000
234	11.700	38.385	30.890	30.997	0.862	17.060	2.781	89.500
235	11.750	38.549	27.970	28.071	0.850	16.140	3.028	90.500
236	11.800	38.713	27.270	27.362	0.879	14.720	3.212	89.900
237	11.850	38.877	31.250	31.344	0.729	15.040	2.326	77.700
238	11.900	39.042	39.390	39.487	0.918	15.510	2.325	79.000
239	11.950	39.206	37.430	37.625	1.017	31.230	2.703	89.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	40.350	40.565	1.114	34.450	2.746	72.500
241	12.050	39.534	36.090	36.261	1.324	27.350	3.651	71.500
242	12.100	39.698	34.990	35.156	1.174	26.670	3.339	72.300
243	12.150	39.862	67.230	67.404	1.498	27.880	2.222	52.100
244	12.200	40.026	52.810	52.955	1.507	23.290	2.846	39.700
245	12.250	40.190	29.490	29.650	1.421	25.670	4.793	35.100
246	12.300	40.354	20.970	21.135	0.885	26.510	4.187	30.000
247	12.350	40.518	41.930	42.077	0.965	23.580	2.293	32.800
248	12.400	40.682	44.720	44.847	0.896	20.270	1.998	19.800
249	12.450	40.846	57.590	57.707	1.505	18.780	2.608	24.900
250	12.500	41.010	64.060	64.225	1.738	26.480	2.706	19.500
251	12.550	41.174	85.320	85.491	2.497	27.340	2.921	18.800
252	12.600	41.338	103.140	103.481	3.215	54.580	3.107	23.600
253	12.650	41.502	116.030	116.360	3.237	52.930	2.782	12.900
254	12.700	41.666	104.560	104.659	2.230	15.860	2.131	17.400
255	12.750	41.830	141.030	141.235	2.250	32.780	1.593	14.500
256	12.800	41.994	86.460	86.618	2.331	25.280	2.691	17.900
257	12.850	42.158	95.480	95.601	2.733	19.340	2.859	29.000
258	12.900	42.322	112.060	112.236	2.820	28.120	2.513	17.200
259	12.950	42.486	87.250	87.606	2.608	57.060	2.977	27.000
260	13.000	42.650	49.080	49.232	1.937	24.310	3.934	23.600
261	13.050	42.814	37.540	37.690	1.455	23.990	3.860	29.100
262	13.100	42.978	35.430	35.583	0.824	24.550	2.316	37.400
263	13.150	43.143	21.030	21.181	0.700	24.190	3.305	39.700
264	13.200	43.307	23.050	23.189	1.022	22.340	4.407	43.600
265	13.250	43.471	72.730	72.911	1.309	29.060	1.795	52.700
266	13.300	43.635	76.460	76.673	1.282	34.130	1.672	66.700
267	13.350	43.799	35.980	36.154	1.220	27.900	3.374	83.300
268	13.400	43.963	25.240	25.604	0.982	58.380	3.835	81.300
269	13.450	44.127	34.390	34.971	0.656	93.010	1.876	86.900
270	13.500	44.291	57.440	57.677	0.706	37.970	1.224	97.300
271	13.550	44.455	64.190	64.334	1.119	23.090	1.739	87.800
272	13.600	44.619	51.320	51.435	1.200	18.500	2.333	90.000
273	13.650	44.783	33.350	33.409	1.150	9.470	3.442	103.700
274	13.700	44.947	29.540	29.619	0.661	12.690	2.232	82.000
275	13.750	45.111	27.790	27.883	0.605	14.960	2.170	92.400
276	13.800	45.275	24.880	24.982	0.645	16.390	2.582	81.700
277	13.850	45.439	24.990	25.086	0.507	15.450	2.021	84.600
278	13.900	45.603	24.670	24.761	0.511	14.600	2.064	95.000
279	13.950	45.767	24.410	24.458	0.528	7.610	2.159	91.500
280	14.000	45.931	19.370	19.473	0.545	16.550	2.799	74.300
281	14.050	46.095	18.990	19.083	0.536	14.850	2.809	87.000
282	14.100	46.259	33.660	33.768	0.861	17.360	2.550	71.300
283	14.150	46.423	50.310	50.428	1.057	18.920	2.096	88.200
284	14.200	46.587	66.870	66.946	1.435	12.150	2.144	85.300
285	14.250	46.751	67.940	68.055	1.514	18.410	2.225	85.300
286	14.300	46.915	60.940	61.106	1.486	26.520	2.432	0.000
287	14.350	47.079	60.700	60.869	1.222	27.070	2.008	0.000
288	14.400	47.244	62.510	62.658	1.271	23.740	2.028	0.000
289	14.450	47.408	54.870	54.999	1.270	20.740	2.309	0.000
290	14.500	47.572	41.710	41.852	1.404	22.720	3.355	0.000
291	14.550	47.736	39.050	39.216	1.425	26.540	3.634	0.000
292	14.600	47.900	39.780	39.897	1.352	18.740	3.389	0.000
293	14.650	48.064	40.120	40.293	1.515	27.640	3.760	0.000
294	14.700	48.228	47.540	47.706	1.609	26.650	3.373	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	36.430	36.626	1.580	31.380	4.314	0.000
296	14.800	48.556	62.080	62.333	1.629	40.520	2.613	0.000
297	14.850	48.720	61.040	61.263	1.850	35.650	3.020	0.000
298	14.900	48.884	71.510	71.754	2.567	39.040	3.578	0.000
299	14.950	49.048	74.600	74.836	3.792	37.840	5.067	0.000
300	15.000	49.212	121.110	121.382	0.000	43.630	0.000	0.000
301	15.050	49.376	419.040	419.298	0.000	41.370	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221618
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	08:51
CPT File:	13-53075_GP14-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722263.435
Northing / Lat:	4294385.261
Elevation:	144.407
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	30.430	30.460	0.000	4.730	0.000	36.300
2	0.100	0.328	43.230	43.251	0.108	3.430	0.250	45.400
3	0.150	0.492	63.260	63.279	0.161	2.970	0.254	57.800
4	0.200	0.656	41.760	41.793	0.322	5.220	0.770	65.600
5	0.250	0.820	25.410	25.442	0.430	5.070	1.690	56.800
6	0.300	0.984	29.870	29.899	0.973	4.620	3.254	65.200
7	0.350	1.148	45.540	45.575	1.118	5.620	2.453	57.400
8	0.400	1.312	158.530	158.548	1.118	2.890	0.705	56.200
9	0.450	1.476	247.030	247.054	1.312	3.770	0.531	64.500
10	0.500	1.640	356.220	356.240	1.788	3.200	0.502	48.800
11	0.550	1.804	387.370	387.387	2.736	2.660	0.706	51.000
12	0.600	1.968	385.170	385.191	4.972	3.440	1.291	50.200
13	0.650	2.133	322.700	322.729	4.561	4.620	1.413	52.500
14	0.700	2.297	236.640	236.669	2.926	4.720	1.236	47.600
15	0.750	2.461	174.960	174.982	3.210	3.500	1.834	52.800
16	0.800	2.625	118.380	118.391	3.035	1.700	2.564	59.800
17	0.850	2.789	96.440	96.447	3.073	1.060	3.186	56.000
18	0.900	2.953	82.800	82.885	2.423	13.680	2.923	55.500
19	0.950	3.117	60.590	60.793	1.680	32.490	2.763	53.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	125.040	125.264	1.956	35.940	1.561	52.700
21	1.050	3.445	100.090	100.167	0.727	12.350	0.726	50.700
22	1.100	3.609	61.870	61.911	1.371	6.540	2.214	46.500
23	1.150	3.773	83.070	83.116	1.005	7.330	1.209	51.400
24	1.200	3.937	15.520	15.530	0.893	1.650	5.750	52.500
25	1.250	4.101	36.030	36.043	1.197	2.030	3.321	49.500
26	1.300	4.265	46.330	46.347	1.749	2.730	3.774	51.500
27	1.350	4.429	127.260	127.305	1.994	7.280	1.566	51.200
28	1.400	4.593	83.340	83.371	1.443	5.000	1.731	49.800
29	1.450	4.757	84.650	84.698	2.208	7.690	2.607	45.700
30	1.500	4.921	217.890	217.978	2.591	14.090	1.189	48.200
31	1.550	5.085	149.620	149.708	2.429	14.150	1.622	47.100
32	1.600	5.249	169.740	169.962	2.368	35.530	1.393	43.900
33	1.650	5.413	187.200	187.325	7.395	20.060	3.948	44.900
34	1.700	5.577	135.350	135.434	5.164	13.530	3.813	46.200
35	1.750	5.741	362.180	362.262	1.640	13.180	0.453	52.300
36	1.800	5.905	362.250	362.327	4.629	12.330	1.278	47.400
37	1.850	6.069	420.410	420.441	3.254	4.990	0.774	43.900
38	1.900	6.234	337.460	337.481	4.304	3.310	1.275	40.200
39	1.950	6.398	85.700	85.734	4.130	5.410	4.817	45.300
40	2.000	6.562	173.110	173.125	1.006	2.390	0.581	44.400
41	2.050	6.726	205.650	205.700	0.294	7.930	0.143	45.600
42	2.100	6.890	173.560	173.590	0.657	4.760	0.378	44.400
43	2.150	7.054	166.980	166.999	2.664	3.000	1.595	43.100
44	2.200	7.218	148.990	148.993	1.949	0.480	1.308	38.500
45	2.250	7.382	190.240	190.285	2.066	7.200	1.086	42.300
46	2.300	7.546	232.740	232.765	2.495	4.070	1.072	40.800
47	2.350	7.710	112.360	112.369	3.071	1.380	2.733	42.300
48	2.400	7.874	106.690	106.704	3.426	2.230	3.211	44.500
49	2.450	8.038	145.550	145.572	0.854	3.520	0.587	46.200
50	2.500	8.202	153.670	153.711	0.938	6.570	0.610	48.000
51	2.550	8.366	101.630	101.635	1.064	0.860	1.047	51.000
52	2.600	8.530	55.920	55.960	1.051	6.340	1.878	62.300
53	2.650	8.694	26.580	26.592	0.916	1.940	3.445	72.100
54	2.700	8.858	22.120	22.130	0.254	1.590	1.148	72.400
55	2.750	9.022	14.290	14.297	0.251	1.110	1.756	82.200
56	2.800	9.186	10.690	10.697	0.307	1.170	2.870	86.500
57	2.850	9.350	12.990	13.002	0.342	1.860	2.630	86.400
58	2.900	9.514	16.940	16.985	0.360	7.150	2.120	87.300
59	2.950	9.678	15.940	15.970	0.383	4.820	2.398	86.600
60	3.000	9.842	20.520	20.575	0.477	8.790	2.318	85.800
61	3.050	10.006	21.620	21.665	0.435	7.140	2.008	97.500
62	3.100	10.170	15.060	15.113	0.453	8.560	2.997	87.900
63	3.150	10.335	14.180	14.277	0.422	15.580	2.956	94.400
64	3.200	10.499	20.880	21.017	0.598	22.020	2.845	91.700
65	3.250	10.663	28.380	28.539	0.828	25.430	2.901	91.800
66	3.300	10.827	28.450	28.523	0.858	11.730	3.008	95.600
67	3.350	10.991	41.950	42.014	1.135	10.310	2.701	85.200
68	3.400	11.155	33.550	33.578	1.126	4.440	3.353	87.000
69	3.450	11.319	39.170	39.216	1.208	7.380	3.080	84.600
70	3.500	11.483	35.460	35.489	1.081	4.710	3.046	78.200
71	3.550	11.647	21.480	21.480	0.905	-0.070	4.213	77.000
72	3.600	11.811	11.600	11.566	0.624	-5.410	5.395	55.900
73	3.650	11.975	50.850	50.811	0.863	-6.200	1.698	55.100
74	3.700	12.139	44.030	43.977	0.478	-8.480	1.087	46.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	14.140	14.088	1.052	-8.380	7.468	45.100
76	3.800	12.467	40.950	40.922	0.869	-4.450	2.124	43.400
77	3.850	12.631	47.800	47.773	0.713	-4.250	1.492	39.300
78	3.900	12.795	51.760	51.761	0.846	0.190	1.634	52.200
79	3.950	12.959	35.860	35.862	0.708	0.370	1.974	56.800
80	4.000	13.123	27.710	27.720	0.743	1.640	2.680	68.400
81	4.050	13.287	50.640	50.663	0.862	3.700	1.701	84.200
82	4.100	13.451	41.560	41.609	0.710	7.860	1.706	94.100
83	4.150	13.615	19.140	19.190	0.764	7.930	3.981	85.800
84	4.200	13.779	34.750	34.788	0.564	6.100	1.621	99.900
85	4.250	13.943	20.260	20.288	0.338	4.410	1.666	102.000
86	4.300	14.107	9.290	9.339	0.291	7.880	3.116	94.600
87	4.350	14.271	9.400	9.465	0.266	10.460	2.810	98.200
88	4.400	14.436	9.010	9.077	0.327	10.780	3.602	94.400
89	4.450	14.600	8.850	8.916	0.349	10.610	3.914	93.900
90	4.500	14.764	9.480	9.528	0.411	7.730	4.313	93.200
91	4.550	14.928	9.270	9.328	0.455	9.220	4.878	98.800
92	4.600	15.092	13.070	13.116	0.558	7.350	4.254	95.000
93	4.650	15.256	16.540	16.476	0.481	-10.230	2.919	91.800
94	4.700	15.420	14.970	14.956	0.467	-2.300	3.123	84.100
95	4.750	15.584	22.540	22.580	0.588	6.350	2.604	95.000
96	4.800	15.748	23.700	23.777	0.761	12.390	3.201	72.800
97	4.850	15.912	23.480	23.585	0.880	16.780	3.731	65.900
98	4.900	16.076	24.620	24.740	0.928	19.200	3.751	63.000
99	4.950	16.240	23.420	23.548	0.911	20.430	3.869	51.400
100	5.000	16.404	22.090	22.212	0.876	19.510	3.944	38.700
101	5.050	16.568	22.830	22.954	0.871	19.930	3.794	32.000
102	5.100	16.732	20.800	20.913	0.784	18.160	3.749	24.900
103	5.150	16.896	23.350	23.434	1.197	13.470	5.108	20.500
104	5.200	17.060	23.700	23.762	0.846	9.950	3.560	28.900
105	5.250	17.224	34.400	34.456	1.042	8.990	3.024	29.700
106	5.300	17.388	59.490	59.524	1.144	5.440	1.922	35.700
107	5.350	17.552	52.210	52.266	1.725	8.920	3.300	35.800
108	5.400	17.716	36.650	36.701	1.278	8.130	3.482	49.600
109	5.450	17.880	34.440	34.466	1.043	4.210	3.026	69.500
110	5.500	18.044	30.100	30.113	0.476	2.140	1.581	112.400
111	5.550	18.208	29.690	29.731	0.729	6.530	2.452	161.900
112	5.600	18.372	52.840	52.863	1.005	3.760	1.901	265.100
113	5.650	18.537	47.970	48.012	1.417	6.780	2.951	391.200
114	5.700	18.701	62.530	62.584	1.503	8.610	2.402	484.100
115	5.750	18.865	34.870	34.935	1.280	10.350	3.664	494.000
116	5.800	19.029	26.230	26.287	0.872	9.200	3.317	462.800
117	5.850	19.193	20.010	20.059	0.508	7.780	2.533	386.400
118	5.900	19.357	17.130	17.177	0.423	7.550	2.463	306.200
119	5.950	19.521	19.000	19.051	0.456	8.090	2.394	264.400
120	6.000	19.685	17.510	17.573	0.462	10.040	2.629	228.300
121	6.050	19.849	17.860	17.926	0.572	10.510	3.191	211.500
122	6.100	20.013	26.780	26.908	0.534	20.440	1.985	198.900
123	6.150	20.177	26.240	26.349	0.583	17.460	2.213	175.500
124	6.200	20.341	24.080	24.130	0.521	7.980	2.159	153.800
125	6.250	20.505	22.570	22.612	0.520	6.680	2.300	115.500
126	6.300	20.669	23.630	23.665	0.649	5.650	2.742	104.200
127	6.350	20.833	24.250	24.285	0.786	5.530	3.237	80.700
128	6.400	20.997	29.170	29.191	0.693	3.420	2.374	62.900
129	6.450	21.161	48.000	48.017	0.598	2.790	1.245	50.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	39.060	39.071	0.460	1.810	1.177	65.500
131	6.550	21.489	28.820	28.825	0.747	0.850	2.591	50.500
132	6.600	21.653	27.940	27.957	0.811	2.690	2.901	55.600
133	6.650	21.817	29.670	29.689	0.909	3.060	3.062	48.900
134	6.700	21.981	59.280	59.306	0.874	4.210	1.474	46.300
135	6.750	22.145	123.980	124.004	1.136	3.900	0.916	38.400
136	6.800	22.309	146.640	146.659	1.636	3.000	1.116	35.000
137	6.850	22.473	130.560	130.580	2.440	3.280	1.869	26.100
138	6.900	22.638	108.100	108.123	2.060	3.700	1.905	20.200
139	6.950	22.802	87.090	87.112	1.680	3.590	1.929	16.000
140	7.000	22.966	59.440	59.462	1.673	3.480	2.814	17.700
141	7.050	23.130	59.050	59.079	1.378	4.710	2.332	10.700
142	7.100	23.294	54.550	54.587	1.436	5.960	2.631	18.700
143	7.150	23.458	41.560	41.572	1.392	1.990	3.348	18.000
144	7.200	23.622	58.160	58.209	1.089	7.900	1.871	15.800
145	7.250	23.786	37.000	37.026	0.933	4.160	2.520	16.700
146	7.300	23.950	54.930	54.960	1.159	4.870	2.109	16.600
147	7.350	24.114	57.340	57.384	1.364	7.070	2.377	17.100
148	7.400	24.278	86.950	87.054	0.886	16.600	1.018	22.200
149	7.450	24.442	60.990	61.039	0.615	7.860	1.008	20.100
150	7.500	24.606	27.030	27.055	0.561	4.010	2.074	28.800
151	7.550	24.770	31.900	31.978	0.683	12.530	2.136	39.600
152	7.600	24.934	39.070	39.128	0.827	9.260	2.114	46.800
153	7.650	25.098	84.810	84.878	1.315	10.850	1.549	51.500
154	7.700	25.262	105.020	105.114	1.227	15.070	1.167	47.300
155	7.750	25.426	36.270	36.483	1.168	34.100	3.202	31.200
156	7.800	25.590	24.960	25.158	0.822	31.770	3.267	26.600
157	7.850	25.754	20.490	20.733	0.329	38.890	1.587	19.100
158	7.900	25.918	24.180	24.358	0.347	28.580	1.425	19.000
159	7.950	26.082	38.140	38.297	0.477	25.110	1.246	14.100
160	8.000	26.246	43.870	43.980	0.777	17.570	1.767	13.700
161	8.050	26.410	26.570	26.646	0.700	12.150	2.627	12.600
162	8.100	26.574	57.100	57.194	1.212	15.000	2.119	11.800
163	8.150	26.739	50.490	50.585	0.857	15.210	1.694	21.500
164	8.200	26.903	71.560	71.598	1.767	6.070	2.468	19.300
165	8.250	27.067	164.860	164.918	2.790	9.290	1.692	30.200
166	8.300	27.231	148.430	148.611	3.866	28.980	2.601	22.800
167	8.350	27.395	141.570	141.856	3.930	45.810	2.770	34.600
168	8.400	27.559	149.400	149.677	3.571	44.300	2.386	33.100
169	8.450	27.723	133.740	134.021	2.705	44.940	2.018	36.800
170	8.500	27.887	90.440	90.561	1.874	19.330	2.069	29.900
171	8.550	28.051	71.940	72.104	1.068	26.330	1.481	21.700
172	8.600	28.215	66.520	66.583	0.710	10.090	1.066	22.600
173	8.650	28.379	63.180	63.239	2.033	9.490	3.215	20.100
174	8.700	28.543	90.490	90.545	1.484	8.760	1.639	16.800
175	8.750	28.707	117.060	117.082	1.125	3.510	0.961	15.700
176	8.800	28.871	92.390	92.467	1.569	12.280	1.697	13.400
177	8.850	29.035	63.220	63.309	1.606	14.330	2.537	11.600
178	8.900	29.199	39.260	39.322	1.417	9.930	3.604	13.800
179	8.950	29.363	22.670	22.730	1.199	9.650	5.275	17.300
180	9.000	29.527	52.010	52.068	1.604	9.240	3.081	25.400
181	9.050	29.691	72.570	72.628	2.050	9.260	2.823	21.300
182	9.100	29.855	46.000	46.063	1.970	10.170	4.277	18.300
183	9.150	30.019	32.960	33.147	1.431	29.880	4.317	18.000
184	9.200	30.183	44.660	44.833	1.151	27.690	2.567	13.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	50.840	50.968	1.080	20.530	2.119	11.400
186	9.300	30.511	64.370	64.487	1.267	18.790	1.965	14.100
187	9.350	30.675	49.640	49.753	1.286	18.120	2.585	12.500
188	9.400	30.840	39.420	39.484	1.338	10.310	3.389	14.700
189	9.450	31.004	22.050	22.122	0.845	11.580	3.820	13.800
190	9.500	31.168	21.070	21.132	0.571	9.960	2.702	13.900
191	9.550	31.332	18.440	18.491	0.405	8.230	2.190	11.100
192	9.600	31.496	30.170	30.213	0.370	6.810	1.225	21.700
193	9.650	31.660	38.620	38.659	0.805	6.260	2.082	17.400
194	9.700	31.824	41.050	41.089	0.737	6.260	1.794	25.300
195	9.750	31.988	39.900	39.912	1.062	1.990	2.661	28.600
196	9.800	32.152	46.760	46.793	1.042	5.340	2.227	31.000
197	9.850	32.316	56.490	56.524	1.022	5.500	1.808	32.300
198	9.900	32.480	66.580	66.610	1.303	4.830	1.956	26.800
199	9.950	32.644	85.150	85.187	1.023	5.950	1.201	23.900
200	10.000	32.808	40.490	40.512	0.742	3.460	1.832	20.400
201	10.050	32.972	25.460	25.474	1.159	2.210	4.550	19.600
202	10.100	33.136	28.040	28.047	0.918	1.060	3.273	21.300
203	10.150	33.300	23.480	23.478	0.495	-0.270	2.108	26.700
204	10.200	33.464	39.860	39.878	0.738	2.810	1.851	35.600
205	10.250	33.628	88.820	88.871	1.534	8.240	1.726	36.900
206	10.300	33.792	62.680	62.699	1.592	3.110	2.539	33.300
207	10.350	33.956	54.700	54.702	1.552	0.260	2.837	36.000
208	10.400	34.120	72.560	72.627	1.417	10.660	1.951	35.400
209	10.450	34.284	43.060	43.077	1.216	2.790	2.823	35.100
210	10.500	34.448	38.550	38.561	0.867	1.710	2.248	33.300
211	10.550	34.612	32.220	32.233	0.741	2.150	2.299	37.900
212	10.600	34.776	31.210	31.233	0.527	3.750	1.687	41.300
213	10.650	34.941	25.000	25.019	0.471	3.020	1.883	38.700
214	10.700	35.105	24.450	24.466	0.613	2.640	2.505	35.600
215	10.750	35.269	31.190	31.201	0.499	1.780	1.599	36.700
216	10.800	35.433	30.460	30.467	0.553	1.130	1.815	32.300
217	10.850	35.597	33.510	33.524	0.432	2.240	1.289	38.000
218	10.900	35.761	38.080	38.086	0.429	1.020	1.126	30.600
219	10.950	35.925	27.270	27.295	0.578	4.080	2.118	42.200
220	11.000	36.089	40.210	40.230	0.424	3.280	1.054	43.200
221	11.050	36.253	44.450	44.463	0.523	2.030	1.176	41.500
222	11.100	36.417	49.860	49.879	0.600	2.990	1.203	35.100
223	11.150	36.581	37.530	37.536	0.600	1.020	1.598	43.400
224	11.200	36.745	37.480	37.505	0.819	4.070	2.184	45.500
225	11.250	36.909	48.940	48.963	1.021	3.700	2.085	48.700
226	11.300	37.073	45.190	45.218	0.938	4.420	2.074	51.900
227	11.350	37.237	42.280	42.294	0.889	2.320	2.102	35.700
228	11.400	37.401	23.100	23.132	0.719	5.090	3.108	31.400
229	11.450	37.565	30.710	30.776	0.672	10.600	2.184	25.600
230	11.500	37.729	37.540	37.648	0.983	17.250	2.611	26.500
231	11.550	37.893	44.560	44.670	1.192	17.560	2.668	19.000
232	11.600	38.057	79.820	79.898	1.806	12.420	2.260	12.300
233	11.650	38.221	49.030	49.092	1.756	9.930	3.577	11.700
234	11.700	38.385	42.410	42.487	1.787	12.400	4.206	10.100
235	11.750	38.549	40.830	40.927	1.589	15.600	3.882	8.500
236	11.800	38.713	41.970	42.018	1.733	7.750	4.124	11.300
237	11.850	38.877	49.680	49.712	1.423	5.130	2.862	8.200
238	11.900	39.042	51.620	51.653	1.311	5.320	2.538	5.900
239	11.950	39.206	58.110	58.173	1.071	10.060	1.841	11.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	77.730	77.798	1.578	10.830	2.028	11.600
241	12.050	39.534	76.380	76.458	1.995	12.440	2.609	9.200
242	12.100	39.698	41.220	41.257	1.441	5.940	3.493	12.200
243	12.150	39.862	28.540	28.573	1.202	5.220	4.207	9.700
244	12.200	40.026	38.010	38.055	0.847	7.170	2.226	19.700
245	12.250	40.190	35.970	36.010	0.966	6.390	2.683	16.600
246	12.300	40.354	34.910	34.976	1.190	10.600	3.402	27.900
247	12.350	40.518	48.430	48.498	1.237	10.920	2.551	29.000
248	12.400	40.682	31.470	31.549	1.735	12.670	5.499	42.500
249	12.450	40.846	65.300	65.388	1.710	14.140	2.615	58.600
250	12.500	41.010	55.260	55.318	1.416	9.240	2.560	73.000
251	12.550	41.174	37.270	37.358	1.855	14.150	4.965	70.800
252	12.600	41.338	50.230	50.304	1.338	11.800	2.660	67.800
253	12.650	41.502	62.630	62.708	0.954	12.540	1.521	76.700
254	12.700	41.666	67.080	67.156	0.608	12.230	0.905	78.000
255	12.750	41.830	64.510	64.585	0.609	11.940	0.943	76.100
256	12.800	41.994	62.140	62.213	0.681	11.660	1.095	66.100
257	12.850	42.158	58.290	58.362	0.621	11.540	1.064	63.200
258	12.900	42.322	53.140	53.212	0.518	11.560	0.973	52.800
259	12.950	42.486	42.270	42.328	0.384	9.300	0.907	39.700
260	13.000	42.650	31.830	31.882	0.304	8.320	0.954	42.200
261	13.050	42.814	27.680	27.729	0.405	7.820	1.461	36.200
262	13.100	42.978	27.440	27.488	0.440	7.690	1.601	40.200
263	13.150	43.143	32.530	32.580	0.657	7.930	2.017	52.400
264	13.200	43.307	51.070	51.127	0.830	9.210	1.623	40.200
265	13.250	43.471	22.300	22.355	1.928	8.870	8.624	30.300
266	13.300	43.635	22.550	22.656	1.384	17.000	6.109	29.400
267	13.350	43.799	59.100	59.118	1.268	2.840	2.145	26.800
268	13.400	43.963	47.540	47.607	1.171	10.810	2.460	23.700
269	13.450	44.127	139.790	139.852	1.979	9.880	1.415	20.500
270	13.500	44.291	45.350	45.383	1.658	5.250	3.653	14.700
271	13.550	44.455	19.620	19.706	1.540	13.710	7.815	16.200
272	13.600	44.619	26.130	26.223	0.629	14.930	2.399	19.700
273	13.650	44.783	25.240	25.315	0.871	11.960	3.441	20.200
274	13.700	44.947	33.530	33.584	0.815	8.630	2.427	20.700
275	13.750	45.111	22.710	22.776	0.837	10.650	3.675	0.000
276	13.800	45.275	20.460	20.513	0.710	8.550	3.461	0.000
277	13.850	45.439	15.580	15.632	0.513	8.320	3.282	0.000
278	13.900	45.603	12.440	12.492	0.558	8.370	4.467	0.000
279	13.950	45.767	21.120	21.178	0.658	9.360	3.107	0.000
280	14.000	45.931	28.890	28.948	0.965	9.240	3.334	0.000
281	14.050	46.095	39.210	39.280	0.811	11.160	2.065	0.000
282	14.100	46.259	29.770	29.799	0.809	4.720	2.715	0.000
283	14.150	46.423	33.560	33.629	0.869	11.010	2.584	0.000
284	14.200	46.587	62.640	62.714	0.593	11.790	0.946	0.000
285	14.250	46.751	58.830	58.864	0.329	5.430	0.559	0.000
286	14.300	46.915	54.340	54.413	0.787	11.700	1.446	0.000
287	14.350	47.079	128.800	128.897	1.103	15.580	0.856	0.000
288	14.400	47.244	54.350	54.408	1.343	9.320	2.468	0.000
289	14.450	47.408	54.120	54.185	0.000	10.480	0.000	0.000
290	14.500	47.572	46.170	46.272	0.000	16.350	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221619
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	09:44
CPT File:	13-53075_GP14-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722271.712
Northing / Lat:	4294372.962
Elevation:	144.504
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	20.930	20.974	0.065	7.080	0.310	24.900
2	0.100	0.328	43.350	43.365	0.073	2.370	0.168	27.400
3	0.150	0.492	36.730	36.744	0.096	2.220	0.261	34.200
4	0.200	0.656	42.660	42.666	0.231	0.960	0.541	34.500
5	0.250	0.820	51.130	51.144	0.355	2.290	0.694	43.300
6	0.300	0.984	39.430	39.452	0.498	3.560	1.262	44.600
7	0.350	1.148	51.600	51.611	1.025	1.770	1.986	60.000
8	0.400	1.312	98.020	98.037	1.849	2.740	1.886	59.400
9	0.450	1.476	88.260	88.287	3.024	4.260	3.425	59.900
10	0.500	1.640	99.020	99.027	1.778	1.200	1.795	0.000
11	0.550	1.804	61.010	61.024	1.504	2.280	2.465	0.000
12	0.600	1.968	113.030	113.043	1.478	2.050	1.307	0.000
13	0.650	2.133	123.370	123.366	0.799	-0.640	0.648	0.000
14	0.700	2.297	133.780	133.796	1.404	2.610	1.049	0.000
15	0.750	2.461	142.900	142.887	0.828	-2.130	0.579	0.000
16	0.800	2.625	87.130	87.116	3.187	-2.170	3.658	0.000
17	0.850	2.789	86.070	86.096	3.394	4.090	3.942	0.000
18	0.900	2.953	383.360	383.360	2.294	-0.010	0.598	0.000
19	0.950	3.117	404.900	404.898	0.636	-0.270	0.157	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	294.520	294.522	2.379	0.360	0.808	0.000
21	1.050	3.445	245.130	245.125	3.299	-0.810	1.346	0.000
22	1.100	3.609	129.410	129.428	2.903	2.920	2.243	0.000
23	1.150	3.773	97.290	97.297	2.514	1.190	2.584	0.000
24	1.200	3.937	455.040	455.040	0.000	0.050	0.000	0.000
25	1.250	4.101	508.880	508.881	0.000	0.100	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221620
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	10:12
CPT File:	13-53075_GP14-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722277.375
Northing / Lat:	4294363.788
Elevation:	144.262
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	52.630	52.648	0.024	2.880	0.046	0.000
2	0.100	0.328	50.390	50.404	0.021	2.170	0.042	0.000
3	0.150	0.492	51.980	51.994	0.108	2.180	0.208	0.000
4	0.200	0.656	53.360	53.367	0.191	1.130	0.358	0.000
5	0.250	0.820	40.110	40.126	0.237	2.580	0.591	0.000
6	0.300	0.984	105.060	105.116	0.214	8.970	0.204	0.000
7	0.350	1.148	478.420	478.423	0.000	0.530	0.000	0.000
8	0.400	1.312	545.930	545.944	0.000	2.310	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221622
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-3S
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-04-2014
CPT Time:	10:09
CPT File:	13-53075_GP14-3S.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722277.240
Northing / Lat:	4294364.080
Elevation:	144.270
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	4.530	4.557	0.008	4.350	0.176	42.600
2	0.100	0.328	5.450	5.469	0.007	3.000	0.128	41.700
3	0.150	0.492	5.500	5.514	0.008	2.190	0.145	45.800
4	0.200	0.656	5.530	5.541	0.007	1.760	0.126	48.000
5	0.250	0.820	4.560	4.569	0.003	1.430	0.066	51.100
6	0.300	0.984	3.450	3.456	0.004	0.930	0.116	55.100
7	0.350	1.148	2.380	2.384	0.006	0.710	0.252	46.800
8	0.400	1.312	2.700	2.708	0.008	1.270	0.295	39.400
9	0.450	1.476	1.790	1.795	0.008	0.840	0.446	43.100
10	0.500	1.640	1.420	1.424	0.007	0.640	0.492	47.600
11	0.550	1.804	1.100	1.103	0.007	0.500	0.635	51.600
12	0.600	1.968	1.310	1.313	0.010	0.500	0.762	51.300
13	0.650	2.133	1.570	1.574	0.009	0.650	0.572	59.800
14	0.700	2.297	1.940	1.945	0.009	0.800	0.463	51.900
15	0.750	2.461	3.610	3.617	0.008	1.070	0.221	69.800
16	0.800	2.625	5.460	5.467	0.011	1.190	0.201	84.800
17	0.850	2.789	6.360	6.367	0.012	1.050	0.188	73.200
18	0.900	2.953	6.880	6.886	0.012	1.000	0.174	65.000
19	0.950	3.117	7.720	7.726	0.012	0.900	0.155	66.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	7.680	7.685	0.012	0.820	0.156	69.600
21	1.050	3.445	7.600	7.605	0.011	0.820	0.145	71.700
22	1.100	3.609	9.000	9.005	0.012	0.800	0.133	72.700
23	1.150	3.773	13.140	13.149	0.012	1.380	0.091	67.900
24	1.200	3.937	16.720	16.729	0.011	1.510	0.066	57.600
25	1.250	4.101	16.970	16.978	0.010	1.320	0.059	64.500
26	1.300	4.265	15.230	15.237	0.002	1.080	0.013	60.700
27	1.350	4.429	14.610	14.615	0.003	0.830	0.021	53.000
28	1.400	4.593	13.160	13.174	0.005	2.320	0.038	59.700
29	1.450	4.757	11.980	11.990	0.003	1.530	0.025	60.100
30	1.500	4.921	10.870	10.878	0.003	1.300	0.028	40.500
31	1.550	5.085	9.700	9.706	0.002	1.040	0.021	39.000
32	1.600	5.249	10.040	10.046	0.002	0.980	0.020	37.900
33	1.650	5.413	9.330	9.335	0.002	0.880	0.021	44.900
34	1.700	5.577	8.790	8.796	0.002	0.940	0.023	41.300
35	1.750	5.741	9.130	9.136	0.003	0.940	0.033	42.400
36	1.800	5.905	9.450	9.457	0.003	1.070	0.032	43.400
37	1.850	6.069	9.380	9.386	0.004	1.020	0.043	39.700
38	1.900	6.234	9.830	9.837	0.004	1.090	0.041	43.500
39	1.950	6.398	11.040	11.047	0.001	1.150	0.009	45.600
40	2.000	6.562	10.960	10.967	0.003	1.130	0.027	40.700
41	2.050	6.726	11.240	11.247	0.003	1.100	0.027	46.800
42	2.100	6.890	11.690	11.697	0.003	1.060	0.026	39.700
43	2.150	7.054	12.020	12.027	0.001	1.100	0.008	55.500
44	2.200	7.218	11.850	11.857	0.003	1.140	0.025	60.900
45	2.250	7.382	10.680	10.686	0.003	0.950	0.028	54.700
46	2.300	7.546	9.780	9.786	0.010	0.950	0.102	62.500
47	2.350	7.710	8.650	8.655	0.009	0.800	0.104	69.700
48	2.400	7.874	7.150	7.161	0.010	1.770	0.140	66.000
49	2.450	8.038	5.290	5.298	0.009	1.240	0.170	71.700
50	2.500	8.202	4.050	4.057	0.008	1.100	0.197	74.900
51	2.550	8.366	3.240	3.245	0.010	0.840	0.308	69.700
52	2.600	8.530	3.170	3.175	0.009	0.850	0.283	69.000
53	2.650	8.694	7.080	7.093	0.008	2.100	0.113	58.900
54	2.700	8.858	9.210	9.221	0.097	1.830	1.052	58.200
55	2.750	9.022	16.540	16.560	0.196	3.130	1.184	52.300
56	2.800	9.186	30.160	30.184	0.319	3.770	1.057	49.300
57	2.850	9.350	25.770	25.793	0.453	3.700	1.756	41.600
58	2.900	9.514	10.970	10.982	0.363	1.980	3.305	50.100
59	2.950	9.678	7.620	7.654	0.330	5.460	4.311	52.100
60	3.000	9.842	10.510	10.579	0.309	10.980	2.921	82.700
61	3.050	10.006	14.830	14.920	0.612	14.400	4.102	88.300
62	3.100	10.170	9.250	9.465	0.599	34.470	6.328	108.700
63	3.150	10.335	69.630	69.616	0.149	-2.180	0.214	97.700
64	3.200	10.499	80.780	80.800	0.382	3.260	0.473	95.700
65	3.250	10.663	87.310	87.357	0.456	7.530	0.522	94.500
66	3.300	10.827	35.550	35.593	0.554	6.960	1.556	52.800
67	3.350	10.991	29.740	29.757	0.583	2.690	1.959	45.400
68	3.400	11.155	33.520	33.540	0.450	3.240	1.342	36.300
69	3.450	11.319	19.620	19.649	0.502	4.590	2.555	35.500
70	3.500	11.483	20.400	20.533	0.638	21.320	3.107	35.200
71	3.550	11.647	28.030	28.100	0.326	11.250	1.160	30.700
72	3.600	11.811	39.770	39.764	0.210	-0.930	0.528	22.400
73	3.650	11.975	22.490	22.498	0.166	1.240	0.738	24.200
74	3.700	12.139	24.320	24.329	0.316	1.450	1.299	19.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	39.050	39.063	0.281	2.060	0.719	17.100
76	3.800	12.467	47.410	47.426	0.379	2.520	0.799	21.100
77	3.850	12.631	39.060	39.152	0.479	14.760	1.223	16.000
78	3.900	12.795	14.810	14.906	0.475	15.330	3.187	20.700
79	3.950	12.959	15.860	15.858	0.395	-0.280	2.491	24.700
80	4.000	13.123	20.700	20.857	0.286	25.210	1.371	24.300
81	4.050	13.287	9.150	9.162	0.427	1.850	4.661	32.100
82	4.100	13.451	21.990	22.011	0.519	3.440	2.358	35.800
83	4.150	13.615	46.990	47.023	1.164	5.310	2.475	43.000
84	4.200	13.779	51.590	51.712	1.194	19.500	2.309	61.200
85	4.250	13.943	29.520	29.592	1.164	11.540	3.933	82.500
86	4.300	14.107	58.870	58.855	0.916	-2.340	1.556	75.200
87	4.350	14.271	72.530	72.488	0.940	-6.770	1.297	88.700
88	4.400	14.436	66.450	66.424	1.079	-4.240	1.624	71.700
89	4.450	14.600	58.080	58.037	1.139	-6.860	1.963	72.900
90	4.500	14.764	47.630	47.566	0.889	-10.210	1.869	70.800
91	4.550	14.928	63.050	62.989	0.764	-9.740	1.213	61.300
92	4.600	15.092	73.680	73.620	0.905	-9.660	1.229	57.000
93	4.650	15.256	30.290	30.313	0.886	3.700	2.923	63.000
94	4.700	15.420	28.590	28.586	0.806	-0.650	2.820	50.200
95	4.750	15.584	24.980	24.978	0.560	-0.300	2.242	54.000
96	4.800	15.748	19.810	19.827	0.528	2.760	2.663	63.000
97	4.850	15.912	16.720	16.733	0.418	2.120	2.498	54.300
98	4.900	16.076	23.910	23.941	0.533	5.040	2.226	48.300
99	4.950	16.240	32.330	32.341	0.616	1.840	1.905	40.100
100	5.000	16.404	38.800	38.872	0.739	11.590	1.901	31.500
101	5.050	16.568	102.160	102.195	1.669	5.670	1.633	29.200
102	5.100	16.732	94.590	94.633	1.792	6.950	1.894	32.600
103	5.150	16.896	34.390	34.455	1.794	10.450	5.207	35.300
104	5.200	17.060	95.980	95.999	1.505	3.040	1.568	53.600
105	5.250	17.224	142.340	142.342	1.031	0.390	0.724	52.100
106	5.300	17.388	65.190	65.216	1.467	4.180	2.249	59.000
107	5.350	17.552	95.840	95.850	1.229	1.660	1.282	38.300
108	5.400	17.716	27.850	27.857	1.074	1.200	3.855	43.000
109	5.450	17.880	31.520	31.547	0.950	4.350	3.011	37.900
110	5.500	18.044	50.080	50.123	0.794	6.930	1.584	27.600
111	5.550	18.208	42.230	42.302	0.746	11.520	1.764	22.300
112	5.600	18.372	18.270	18.312	0.951	6.790	5.193	24.300
113	5.650	18.537	9.420	9.421	0.768	0.170	8.152	30.000
114	5.700	18.701	24.280	24.296	0.599	2.640	2.465	34.500
115	5.750	18.865	18.070	18.079	0.581	1.370	3.214	50.800
116	5.800	19.029	12.990	13.043	0.412	8.510	3.159	56.000
117	5.850	19.193	8.530	8.700	0.310	27.310	3.563	56.700
118	5.900	19.357	10.780	10.976	0.313	31.330	2.852	46.700
119	5.950	19.521	15.720	15.876	0.383	25.010	2.412	38.800
120	6.000	19.685	33.800	33.820	0.874	3.160	2.584	39.100
121	6.050	19.849	42.990	42.994	1.358	0.590	3.159	31.900
122	6.100	20.013	28.020	28.039	1.274	3.080	4.544	25.800
123	6.150	20.177	23.520	23.493	0.945	-4.300	4.022	28.800
124	6.200	20.341	42.190	42.186	1.175	-0.650	2.785	26.200
125	6.250	20.505	133.120	133.184	1.987	10.180	1.492	18.100
126	6.300	20.669	70.110	70.110	1.641	0.030	2.341	16.900
127	6.350	20.833	16.090	16.173	1.168	13.360	7.222	21.300
128	6.400	20.997	13.430	13.431	0.439	0.140	3.269	15.100
129	6.450	21.161	4.460	4.468	0.423	1.310	9.467	11.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	17.640	17.618	0.424	-3.480	2.407	10.100
131	6.550	21.489	12.490	12.605	0.375	18.460	2.975	12.800
132	6.600	21.653	13.290	13.310	0.609	3.160	4.576	13.800
133	6.650	21.817	19.290	19.344	0.712	8.720	3.681	13.300
134	6.700	21.981	36.640	36.661	1.094	3.310	2.984	19.900
135	6.750	22.145	70.780	70.806	1.307	4.180	1.846	19.700
136	6.800	22.309	25.150	25.153	1.452	0.550	5.773	14.500
137	6.850	22.473	32.220	32.253	1.283	5.290	3.978	12.400
138	6.900	22.638	29.440	29.453	0.652	2.030	2.214	11.700
139	6.950	22.802	10.030	10.035	0.621	0.740	6.189	13.400
140	7.000	22.966	7.170	7.279	0.511	17.450	7.020	16.800
141	7.050	23.130	23.030	23.043	0.446	2.050	1.936	18.900
142	7.100	23.294	42.480	42.511	1.142	4.900	2.686	18.400
143	7.150	23.458	35.230	35.340	1.291	17.680	3.653	15.200
144	7.200	23.622	79.110	79.164	1.680	8.660	2.122	22.500
145	7.250	23.786	98.880	98.926	2.059	7.430	2.081	25.800
146	7.300	23.950	63.850	63.856	1.725	0.970	2.701	21.800
147	7.350	24.114	48.960	48.972	1.610	1.850	3.288	22.900
148	7.400	24.278	47.330	47.268	1.353	-9.920	2.862	26.700
149	7.450	24.442	26.280	26.284	1.165	0.620	4.432	32.600
150	7.500	24.606	18.220	18.240	0.999	3.140	5.477	47.700
151	7.550	24.770	21.180	21.166	0.795	-2.320	3.756	61.400
152	7.600	24.934	27.570	27.685	0.565	18.450	2.041	61.800
153	7.650	25.098	38.310	38.286	0.552	-3.850	1.442	62.900
154	7.700	25.262	39.000	38.986	0.729	-2.190	1.870	71.400
155	7.750	25.426	37.730	37.746	0.746	2.550	1.976	54.600
156	7.800	25.590	35.570	35.655	1.177	13.550	3.301	53.200
157	7.850	25.754	33.350	33.341	2.428	-1.450	7.282	31.200
158	7.900	25.918	106.980	106.976	2.563	-0.650	2.396	30.800
159	7.950	26.082	40.490	40.619	2.282	20.610	5.618	21.000
160	8.000	26.246	46.790	46.967	1.444	28.290	3.075	20.000
161	8.050	26.410	49.760	49.849	1.455	14.330	2.919	17.900
162	8.100	26.574	51.990	52.013	1.030	3.690	1.980	14.400
163	8.150	26.739	61.250	61.258	1.437	1.320	2.346	15.200
164	8.200	26.903	50.010	50.043	1.466	5.340	2.929	25.000
165	8.250	27.067	36.430	36.440	1.544	1.630	4.237	28.100
166	8.300	27.231	30.620	30.633	0.913	2.090	2.980	33.000
167	8.350	27.395	34.760	35.034	1.124	43.950	3.208	34.500
168	8.400	27.559	50.040	50.066	1.278	4.170	2.553	28.800
169	8.450	27.723	37.400	37.447	2.027	7.580	5.413	33.700
170	8.500	27.887	96.980	97.180	2.920	32.070	3.005	36.700
171	8.550	28.051	106.900	106.911	2.915	1.700	2.727	52.600
172	8.600	28.215	33.520	33.556	2.347	5.750	6.994	63.400
173	8.650	28.379	22.980	23.025	1.240	7.190	5.385	78.900
174	8.700	28.543	24.190	24.294	0.757	16.640	3.116	75.800
175	8.750	28.707	20.040	20.139	0.612	15.860	3.039	69.500
176	8.800	28.871	21.230	21.446	0.808	34.680	3.768	70.800
177	8.850	29.035	34.020	34.438	0.971	66.960	2.820	68.900
178	8.900	29.199	36.900	37.012	0.936	17.920	2.529	59.000
179	8.950	29.363	45.820	45.787	0.899	-5.230	1.963	57.400
180	9.000	29.527	25.720	25.727	0.669	1.110	2.600	51.100
181	9.050	29.691	29.910	29.932	0.681	3.590	2.275	58.900
182	9.100	29.855	57.100	57.340	0.770	38.500	1.343	71.400
183	9.150	30.019	64.350	64.389	0.812	6.210	1.261	78.500
184	9.200	30.183	57.530	57.587	0.803	9.180	1.394	84.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	55.380	55.444	0.788	10.270	1.421	80.700
186	9.300	30.511	52.950	53.015	0.706	10.480	1.332	89.900
187	9.350	30.675	49.420	49.458	0.657	6.100	1.328	88.300
188	9.400	30.840	42.650	42.681	0.678	4.990	1.589	98.900
189	9.450	31.004	38.030	38.058	0.746	4.440	1.960	87.700
190	9.500	31.168	31.790	31.841	0.756	8.180	2.374	79.900
191	9.550	31.332	29.020	29.088	0.595	10.910	2.046	95.600
192	9.600	31.496	28.250	28.313	0.582	10.160	2.056	79.300
193	9.650	31.660	22.250	22.293	0.534	6.950	2.395	73.200
194	9.700	31.824	18.770	18.814	0.540	7.050	2.870	70.100
195	9.750	31.988	26.860	26.951	0.746	14.600	2.768	61.400
196	9.800	32.152	29.610	29.692	0.817	13.120	2.752	56.000
197	9.850	32.316	19.400	19.468	0.784	10.920	4.027	58.100
198	9.900	32.480	29.480	29.507	1.072	4.320	3.633	74.500
199	9.950	32.644	47.900	47.925	1.042	4.040	2.174	71.400
200	10.000	32.808	36.300	36.335	1.137	5.590	3.129	81.700
201	10.050	32.972	37.330	37.358	0.886	4.510	2.372	89.900
202	10.100	33.136	33.100	33.142	0.897	6.680	2.707	85.300
203	10.150	33.300	27.050	27.092	0.879	6.790	3.244	87.200
204	10.200	33.464	21.880	21.943	0.795	10.040	3.623	92.600
205	10.250	33.628	23.280	23.356	0.713	12.110	3.053	87.600
206	10.300	33.792	24.920	25.021	0.761	16.220	3.041	88.200
207	10.350	33.956	29.900	30.008	0.673	17.370	2.243	101.600
208	10.400	34.120	32.470	32.523	0.731	8.560	2.248	92.000
209	10.450	34.284	28.900	28.935	0.750	5.620	2.592	96.900
210	10.500	34.448	24.930	24.981	0.741	8.220	2.966	91.000
211	10.550	34.612	33.380	33.438	0.649	9.290	1.941	93.200
212	10.600	34.776	39.860	39.912	0.691	8.400	1.731	93.100
213	10.650	34.941	38.200	38.237	0.766	5.890	2.003	103.100
214	10.700	35.105	36.090	36.148	0.737	9.230	2.039	85.300
215	10.750	35.269	37.490	37.553	0.742	10.140	1.976	92.400
216	10.800	35.433	38.930	38.992	0.767	9.900	1.967	90.500
217	10.850	35.597	27.650	27.702	0.752	8.340	2.715	83.600
218	10.900	35.761	23.120	23.188	0.654	10.970	2.820	90.800
219	10.950	35.925	24.680	24.792	0.545	18.020	2.198	94.100
220	11.000	36.089	29.000	29.147	0.548	23.540	1.880	86.800
221	11.050	36.253	37.800	37.930	0.638	20.880	1.682	100.700
222	11.100	36.417	39.240	39.344	0.702	16.610	1.784	83.200
223	11.150	36.581	26.840	26.925	0.761	13.630	2.826	111.800
224	11.200	36.745	23.060	23.200	0.650	22.460	2.802	84.200
225	11.250	36.909	30.350	30.541	0.546	30.620	1.788	84.500
226	11.300	37.073	42.350	42.481	0.687	20.990	1.617	70.700
227	11.350	37.237	40.580	40.681	0.775	16.230	1.905	90.500
228	11.400	37.401	38.920	38.976	0.851	9.020	2.183	93.500
229	11.450	37.565	37.310	37.373	0.793	10.160	2.122	89.900
230	11.500	37.729	55.540	55.602	0.753	9.880	1.354	75.200
231	11.550	37.893	51.580	51.625	0.965	7.150	1.869	87.200
232	11.600	38.057	35.050	35.092	0.836	6.780	2.382	83.800
233	11.650	38.221	27.160	27.235	0.618	11.960	2.269	93.900
234	11.700	38.385	21.640	21.756	0.378	18.600	1.737	97.200
235	11.750	38.549	19.290	19.458	0.354	26.920	1.819	89.300
236	11.800	38.713	27.360	27.583	0.363	35.740	1.316	83.700
237	11.850	38.877	21.830	22.077	0.356	39.500	1.613	92.700
238	11.900	39.042	17.760	18.083	0.409	51.700	2.262	85.200
239	11.950	39.206	18.640	19.107	0.429	74.730	2.245	74.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	43.680	44.167	0.847	77.970	1.918	92.200
241	12.050	39.534	40.850	40.992	1.263	22.730	3.081	74.000
242	12.100	39.698	36.100	36.112	1.314	1.870	3.639	67.400
243	12.150	39.862	30.430	30.525	1.093	15.220	3.581	68.900
244	12.200	40.026	39.390	39.518	1.240	20.430	3.138	72.100
245	12.250	40.190	68.160	68.209	1.429	7.830	2.095	83.300
246	12.300	40.354	43.230	43.273	1.308	6.940	3.023	92.100
247	12.350	40.518	43.770	43.828	1.304	9.230	2.975	96.800
248	12.400	40.682	67.480	67.454	1.587	-4.110	2.353	90.400
249	12.450	40.846	62.270	62.502	1.608	37.160	2.573	99.200
250	12.500	41.010	73.450	73.547	2.205	15.530	2.998	88.900
251	12.550	41.174	50.440	50.529	2.615	14.260	5.175	93.800
252	12.600	41.338	43.450	43.514	2.413	10.210	5.545	94.600
253	12.650	41.502	43.930	43.994	2.081	10.280	4.730	83.700
254	12.700	41.666	77.150	77.301	1.972	24.180	2.551	85.400
255	12.750	41.830	109.600	109.695	1.740	15.260	1.586	84.100
256	12.800	41.994	107.660	107.744	1.868	13.480	1.734	85.400
257	12.850	42.158	108.250	108.323	1.832	11.730	1.691	93.900
258	12.900	42.322	98.220	98.284	1.827	10.220	1.859	84.000
259	12.950	42.486	103.350	103.430	1.488	12.860	1.439	104.000
260	13.000	42.650	139.370	139.452	1.804	13.210	1.294	87.300
261	13.050	42.814	145.430	145.506	1.773	12.150	1.219	104.800
262	13.100	42.978	141.430	141.503	2.122	11.710	1.500	87.600
263	13.150	43.143	136.600	136.663	2.387	10.140	1.747	91.900
264	13.200	43.307	126.250	126.309	2.601	9.480	2.059	0.000
265	13.250	43.471	105.600	105.654	2.036	8.610	1.927	0.000
266	13.300	43.635	81.910	81.954	1.369	6.980	1.670	0.000
267	13.350	43.799	49.620	49.653	1.406	5.310	2.832	0.000
268	13.400	43.963	30.550	30.575	1.210	4.060	3.957	0.000
269	13.450	44.127	24.050	24.072	0.964	3.600	4.005	0.000
270	13.500	44.291	21.020	21.094	0.550	11.910	2.607	0.000
271	13.550	44.455	30.490	30.592	0.341	16.280	1.115	0.000
272	13.600	44.619	24.590	24.670	0.247	12.770	1.001	0.000
273	13.650	44.783	17.430	17.522	0.325	14.800	1.855	0.000
274	13.700	44.947	14.050	14.215	2.272	26.390	15.983	0.000
275	13.750	45.111	150.510	150.634	2.483	19.810	1.648	0.000
276	13.800	45.275	111.730	111.971	1.936	38.670	1.729	0.000
277	13.850	45.439	152.440	152.484	3.876	7.120	2.542	0.000
278	13.900	45.603	317.300	317.320	0.000	3.180	0.000	0.000
279	13.950	45.767	321.970	321.969	0.000	-0.090	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221624
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-4
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	10:36
CPT File:	13-53075_GP14-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722285.124
Northing / Lat:	4294351.453
Elevation:	144.541
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	80.750	80.751	0.001	0.110	0.001	0.000
2	0.100	0.328	103.870	103.876	0.102	1.020	0.098	0.000
3	0.150	0.492	106.510	106.512	0.210	0.400	0.197	0.000
4	0.200	0.656	88.830	88.846	0.347	2.550	0.391	0.000
5	0.250	0.820	71.500	71.513	0.422	2.080	0.590	0.000
6	0.300	0.984	34.220	34.290	0.662	11.240	1.931	0.000
7	0.350	1.148	23.570	23.616	0.548	7.340	2.320	0.000
8	0.400	1.312	47.200	47.222	0.513	3.460	1.086	0.000
9	0.450	1.476	39.350	39.370	0.435	3.260	1.105	0.000
10	0.500	1.640	60.350	60.371	0.772	3.410	1.279	0.000
11	0.550	1.804	81.730	81.745	0.552	2.390	0.675	0.000
12	0.600	1.968	90.800	90.832	1.033	5.050	1.137	0.000
13	0.650	2.133	118.990	119.022	1.154	5.140	0.970	0.000
14	0.700	2.297	430.820	430.849	1.388	4.680	0.322	0.000
15	0.750	2.461	486.810	486.817	0.000	1.050	0.000	0.000
16	0.800	2.625	512.380	512.383	0.000	0.500	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221625
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-5
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	10:36
CPT File:	13-53075_GP14-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722295.572
Northing / Lat:	4294336.152
Elevation:	144.153
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	26.650	26.652	0.001	0.330	0.004	32.100
2	0.100	0.328	45.790	45.789	0.001	-0.240	0.002	41.800
3	0.150	0.492	53.620	53.624	0.001	0.570	0.002	48.500
4	0.200	0.656	47.660	47.659	0.146	-0.180	0.306	64.000
5	0.250	0.820	46.320	46.315	0.238	-0.790	0.514	77.000
6	0.300	0.984	17.150	17.160	0.283	1.550	1.649	78.200
7	0.350	1.148	14.760	14.767	0.377	1.120	2.553	95.500
8	0.400	1.312	14.780	14.781	0.357	0.190	2.415	90.300
9	0.450	1.476	15.480	15.443	0.408	-5.950	2.642	90.100
10	0.500	1.640	14.700	14.712	0.556	1.930	3.779	96.200
11	0.550	1.804	20.080	20.080	0.486	-0.020	2.420	83.700
12	0.600	1.968	23.530	23.535	0.485	0.860	2.061	87.300
13	0.650	2.133	34.110	34.106	0.601	-0.670	1.762	83.600
14	0.700	2.297	47.840	47.844	0.696	0.610	1.455	80.200
15	0.750	2.461	68.000	68.027	1.475	4.280	2.168	80.100
16	0.800	2.625	89.050	89.054	1.071	0.700	1.203	75.600
17	0.850	2.789	107.000	107.007	1.300	1.070	1.215	73.900
18	0.900	2.953	101.420	101.424	1.322	0.630	1.303	75.700
19	0.950	3.117	99.610	99.610	1.826	-0.070	1.833	78.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	96.030	96.042	1.261	1.900	1.313	76.600
21	1.050	3.445	123.060	123.065	1.248	0.760	1.014	79.500
22	1.100	3.609	131.460	131.489	1.711	4.590	1.301	78.000
23	1.150	3.773	127.530	127.577	1.672	7.580	1.311	80.000
24	1.200	3.937	119.970	120.012	2.769	6.740	2.307	81.600
25	1.250	4.101	228.290	228.429	4.874	22.300	2.134	79.900
26	1.300	4.265	317.970	318.030	5.049	9.540	1.588	80.400
27	1.350	4.429	319.290	319.313	2.316	3.740	0.725	80.300
28	1.400	4.593	258.300	258.374	2.847	11.920	1.102	94.300
29	1.450	4.757	240.930	241.010	2.051	12.790	0.851	94.500
30	1.500	4.921	277.570	277.619	6.747	7.830	2.430	89.200
31	1.550	5.085	272.610	272.673	4.957	10.140	1.818	91.500
32	1.600	5.249	290.970	291.002	4.531	5.050	1.557	90.500
33	1.650	5.413	206.500	206.687	3.418	29.920	1.654	95.200
34	1.700	5.577	197.030	197.098	2.152	10.860	1.092	87.300
35	1.750	5.741	195.410	195.499	1.464	14.180	0.749	87.700
36	1.800	5.905	197.010	197.068	2.132	9.270	1.082	77.700
37	1.850	6.069	176.830	176.934	5.660	16.640	3.199	73.900
38	1.900	6.234	259.070	259.141	3.216	11.450	1.241	83.100
39	1.950	6.398	304.470	304.507	3.040	5.950	0.998	81.400
40	2.000	6.562	311.210	311.287	3.440	12.280	1.105	72.300
41	2.050	6.726	252.100	252.175	3.565	11.980	1.414	70.100
42	2.100	6.890	183.790	183.820	3.424	4.870	1.863	60.300
43	2.150	7.054	149.010	149.340	2.915	52.890	1.952	55.900
44	2.200	7.218	150.040	150.163	3.354	19.680	2.234	50.700
45	2.250	7.382	158.340	158.484	3.246	23.100	2.048	55.000
46	2.300	7.546	165.860	165.944	4.266	13.520	2.571	47.100
47	2.350	7.710	244.160	244.198	3.737	6.090	1.530	39.100
48	2.400	7.874	269.350	269.435	2.699	13.680	1.002	44.600
49	2.450	8.038	282.380	282.418	2.449	6.050	0.867	45.900
50	2.500	8.202	192.250	192.279	1.430	4.720	0.744	47.500
51	2.550	8.366	157.990	158.007	1.620	2.750	1.025	50.600
52	2.600	8.530	113.210	113.234	2.347	3.920	2.073	51.700
53	2.650	8.694	80.050	80.108	2.418	9.230	3.018	50.500
54	2.700	8.858	86.480	86.556	3.324	12.150	3.840	51.200
55	2.750	9.022	69.520	69.590	2.724	11.260	3.914	0.000
56	2.800	9.186	71.090	71.153	5.279	10.040	7.419	0.000
57	2.850	9.350	77.240	77.324	5.969	13.440	7.719	0.000
58	2.900	9.514	153.920	153.973	5.153	8.510	3.347	0.000
59	2.950	9.678	48.150	48.230	4.965	12.860	10.294	0.000
60	3.000	9.842	74.540	74.537	4.903	-0.470	6.578	0.000
61	3.050	10.006	42.630	42.688	4.399	9.220	10.305	0.000
62	3.100	10.170	22.850	23.071	5.119	35.390	22.188	0.000
63	3.150	10.335	114.480	114.581	1.796	16.160	1.567	0.000
64	3.200	10.499	136.060	136.039	1.883	-3.380	1.384	0.000
65	3.250	10.663	307.290	307.370	2.174	12.890	0.707	0.000
66	3.300	10.827	256.470	256.463	2.473	-1.160	0.964	0.000
67	3.350	10.991	287.600	287.564	2.254	-5.800	0.784	0.000
68	3.400	11.155	392.750	392.748	2.858	-0.320	0.728	0.000
69	3.450	11.319	396.390	396.364	0.000	-4.210	0.000	0.000
70	3.500	11.483	433.360	433.361	0.000	0.110	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221627
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-5S
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-04-2014
CPT Time:	11:45
CPT File:	13-53075_GP14-5S.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722295.530
Northing / Lat:	4294336.340
Elevation:	144.160
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.240	2.245	0.011	0.870	0.490	31.400
2	0.100	0.328	3.600	3.678	0.017	12.450	0.462	39.100
3	0.150	0.492	4.870	4.907	0.015	5.850	0.306	52.400
4	0.200	0.656	6.270	6.281	0.010	1.750	0.159	45.700
5	0.250	0.820	8.380	8.389	0.011	1.480	0.131	60.400
6	0.300	0.984	10.460	10.470	0.013	1.530	0.124	59.400
7	0.350	1.148	12.090	12.098	0.014	1.270	0.116	72.700
8	0.400	1.312	14.400	14.407	0.013	1.080	0.090	82.700
9	0.450	1.476	14.190	14.197	0.015	1.180	0.106	70.200
10	0.500	1.640	16.340	16.347	0.014	1.050	0.086	58.800
11	0.550	1.804	15.720	15.725	0.016	0.870	0.102	79.500
12	0.600	1.968	15.570	15.576	0.016	0.960	0.103	78.500
13	0.650	2.133	15.610	15.615	0.014	0.810	0.090	65.100
14	0.700	2.297	15.260	15.265	0.014	0.730	0.092	65.300
15	0.750	2.461	16.000	16.003	0.015	0.540	0.094	61.500
16	0.800	2.625	16.610	16.615	0.015	0.780	0.090	56.700
17	0.850	2.789	17.280	17.284	0.016	0.620	0.093	68.200
18	0.900	2.953	17.170	17.174	0.014	0.680	0.082	59.200
19	0.950	3.117	17.120	17.124	0.013	0.680	0.076	65.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	16.550	16.554	0.014	0.660	0.085	56.300
21	1.050	3.445	15.750	15.754	0.015	0.710	0.095	67.900
22	1.100	3.609	15.180	15.184	0.014	0.570	0.092	69.800
23	1.150	3.773	14.450	14.454	0.013	0.590	0.090	53.500
24	1.200	3.937	11.970	11.974	0.013	0.610	0.109	55.800
25	1.250	4.101	9.110	9.113	0.013	0.420	0.143	56.900
26	1.300	4.265	6.300	6.303	0.013	0.470	0.206	67.100
27	1.350	4.429	4.610	4.613	0.009	0.480	0.195	61.100
28	1.400	4.593	3.070	3.073	0.008	0.460	0.260	72.800
29	1.450	4.757	3.090	3.095	0.009	0.840	0.291	69.700
30	1.500	4.921	4.040	4.046	0.009	1.020	0.222	54.100
31	1.550	5.085	4.660	4.666	0.007	1.030	0.150	61.900
32	1.600	5.249	5.810	5.816	0.008	1.000	0.138	60.900
33	1.650	5.413	7.590	7.596	0.008	1.010	0.105	66.000
34	1.700	5.577	7.580	7.587	0.007	1.120	0.092	73.800
35	1.750	5.741	7.210	7.217	0.007	1.070	0.097	74.600
36	1.800	5.905	6.920	6.926	0.009	1.000	0.130	58.000
37	1.850	6.069	6.540	6.546	0.008	1.040	0.122	59.500
38	1.900	6.234	6.780	6.786	0.009	1.000	0.133	52.300
39	1.950	6.398	8.100	8.106	0.010	0.910	0.123	58.600
40	2.000	6.562	10.910	10.917	0.008	1.060	0.073	73.400
41	2.050	6.726	15.530	15.537	0.010	1.190	0.064	63.300
42	2.100	6.890	27.150	27.158	0.019	1.320	0.070	53.400
43	2.150	7.054	43.730	43.739	0.028	1.460	0.064	44.000
44	2.200	7.218	51.780	51.789	0.027	1.400	0.052	44.100
45	2.250	7.382	57.900	57.908	0.029	1.350	0.050	43.100
46	2.300	7.546	57.190	57.198	0.028	1.290	0.049	44.300
47	2.350	7.710	53.910	53.917	0.023	1.070	0.043	43.100
48	2.400	7.874	48.820	48.826	0.026	1.040	0.053	39.200
49	2.450	8.038	43.410	43.431	0.023	3.320	0.053	40.300
50	2.500	8.202	42.270	42.286	0.020	2.520	0.047	50.100
51	2.550	8.366	38.680	38.692	0.024	2.000	0.062	37.200
52	2.600	8.530	33.820	33.831	0.023	1.730	0.068	46.700
53	2.650	8.694	30.260	30.270	0.022	1.610	0.073	42.300
54	2.700	8.858	27.270	27.279	0.021	1.370	0.077	45.500
55	2.750	9.022	24.750	24.759	0.022	1.380	0.089	34.400
56	2.800	9.186	21.740	21.749	0.012	1.450	0.055	38.900
57	2.850	9.350	18.940	18.949	0.013	1.390	0.069	38.200
58	2.900	9.514	16.800	16.808	0.011	1.250	0.065	35.900
59	2.950	9.678	15.660	15.668	0.012	1.260	0.077	44.200
60	3.000	9.842	15.370	15.378	0.001	1.280	0.007	46.900
61	3.050	10.006	13.080	13.090	0.002	1.550	0.015	46.000
62	3.100	10.170	9.510	9.520	0.002	1.570	0.021	41.200
63	3.150	10.335	8.650	8.658	0.002	1.330	0.023	51.200
64	3.200	10.499	7.330	7.337	0.002	1.050	0.027	38.400
65	3.250	10.663	6.210	6.220	0.004	1.580	0.064	39.600
66	3.300	10.827	9.820	9.830	0.001	1.550	0.010	51.600
67	3.350	10.991	14.150	14.155	0.008	0.870	0.057	51.000
68	3.400	11.155	15.160	15.168	0.006	1.300	0.040	60.400
69	3.450	11.319	11.490	11.502	0.009	1.960	0.078	55.400
70	3.500	11.483	12.470	12.475	0.008	0.810	0.064	63.100
71	3.550	11.647	8.440	8.447	0.010	1.140	0.118	65.600
72	3.600	11.811	5.850	5.854	0.006	0.710	0.102	65.100
73	3.650	11.975	6.000	6.004	0.008	0.590	0.133	68.600
74	3.700	12.139	3.080	3.086	0.008	0.920	0.259	70.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	9.850	9.870	0.007	3.270	0.071	63.300
76	3.800	12.467	6.710	6.816	0.008	17.000	0.117	76.200
77	3.850	12.631	5.730	5.800	0.009	11.240	0.155	71.000
78	3.900	12.795	2.550	2.633	0.007	13.260	0.266	64.800
79	3.950	12.959	3.450	3.545	0.008	15.150	0.226	63.600
80	4.000	13.123	14.760	14.807	0.007	7.450	0.047	62.700
81	4.050	13.287	5.140	5.185	0.007	7.250	0.135	63.800
82	4.100	13.451	5.210	5.250	0.003	6.400	0.057	63.800
83	4.150	13.615	10.480	10.512	0.077	5.170	0.732	67.600
84	4.200	13.779	7.290	7.312	0.102	3.470	1.395	66.900
85	4.250	13.943	5.490	5.505	0.039	2.400	0.708	91.700
86	4.300	14.107	3.290	3.318	0.019	4.540	0.573	78.000
87	4.350	14.271	3.900	3.963	0.006	10.140	0.151	84.000
88	4.400	14.436	4.060	4.151	0.003	14.570	0.072	82.000
89	4.450	14.600	5.470	5.645	0.000	28.000	0.000	83.800
90	4.500	14.764	7.660	7.839	0.003	28.680	0.038	93.200
91	4.550	14.928	8.360	8.494	0.010	21.480	0.118	86.000
92	4.600	15.092	7.920	8.021	0.032	16.110	0.399	89.600
93	4.650	15.256	7.550	7.625	0.046	12.040	0.603	87.600
94	4.700	15.420	7.040	7.125	0.049	13.640	0.688	98.000
95	4.750	15.584	7.950	8.040	0.064	14.460	0.796	88.700
96	4.800	15.748	10.580	10.664	0.067	13.450	0.628	90.000
97	4.850	15.912	22.580	22.706	0.127	20.210	0.559	82.500
98	4.900	16.076	44.340	44.420	0.296	12.830	0.666	65.400
99	4.950	16.240	49.900	49.917	0.731	2.760	1.464	54.500
100	5.000	16.404	40.030	40.020	0.761	-1.640	1.902	38.600
101	5.050	16.568	29.600	29.670	0.754	11.280	2.541	36.600
102	5.100	16.732	32.490	32.590	0.796	15.950	2.442	36.800
103	5.150	16.896	44.800	44.896	0.922	15.440	2.054	38.400
104	5.200	17.060	30.020	30.074	0.968	8.600	3.219	38.000
105	5.250	17.224	29.750	30.020	0.884	43.220	2.945	50.400
106	5.300	17.388	31.560	31.665	0.793	16.820	2.504	67.100
107	5.350	17.552	20.780	20.892	0.464	17.980	2.221	73.800
108	5.400	17.716	21.150	21.268	0.396	18.840	1.862	75.200
109	5.450	17.880	19.810	20.033	0.434	35.800	2.166	67.900
110	5.500	18.044	16.680	16.810	0.457	20.800	2.719	59.500
111	5.550	18.208	30.570	30.628	0.534	9.330	1.743	53.800
112	5.600	18.372	40.240	40.306	0.597	10.540	1.481	52.900
113	5.650	18.537	94.220	94.283	0.846	10.140	0.897	44.900
114	5.700	18.701	75.060	75.777	1.167	114.890	1.540	38.100
115	5.750	18.865	69.500	69.663	1.234	26.170	1.771	59.600
116	5.800	19.029	16.920	17.057	0.710	21.930	4.163	66.300
117	5.850	19.193	7.380	7.503	0.453	19.660	6.038	79.900
118	5.900	19.357	21.530	21.660	0.457	20.830	2.110	81.500
119	5.950	19.521	46.910	47.005	0.441	15.160	0.938	82.400
120	6.000	19.685	53.730	53.745	0.489	2.380	0.910	79.600
121	6.050	19.849	39.210	39.219	0.572	1.420	1.458	65.000
122	6.100	20.013	31.320	31.320	0.549	-0.060	1.753	41.300
123	6.150	20.177	44.180	44.180	0.699	0.050	1.582	32.700
124	6.200	20.341	33.180	33.194	0.645	2.310	1.943	33.800
125	6.250	20.505	24.540	24.598	0.755	9.270	3.069	23.500
126	6.300	20.669	30.940	31.013	0.828	11.670	2.670	19.800
127	6.350	20.833	26.100	26.165	1.155	10.490	4.414	30.500
128	6.400	20.997	24.880	24.939	0.966	9.380	3.874	18.900
129	6.450	21.161	49.300	49.520	1.132	35.230	2.286	22.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	60.600	60.714	1.089	18.230	1.794	20.200
131	6.550	21.489	12.710	12.755	0.901	7.200	7.064	27.600
132	6.600	21.653	34.230	34.278	0.656	7.660	1.914	34.000
133	6.650	21.817	35.670	35.724	0.327	8.570	0.915	47.300
134	6.700	21.981	23.570	23.611	0.437	6.560	1.851	62.200
135	6.750	22.145	8.970	9.051	0.513	13.010	5.668	64.600
136	6.800	22.309	19.550	19.825	0.490	44.030	2.472	68.000
137	6.850	22.473	40.330	40.413	0.607	13.280	1.502	70.500
138	6.900	22.638	34.970	34.981	0.774	1.820	2.213	84.200
139	6.950	22.802	28.100	28.080	0.780	-3.260	2.778	72.800
140	7.000	22.966	23.590	23.565	0.664	-4.060	2.818	69.000
141	7.050	23.130	20.290	20.280	0.687	-1.550	3.388	63.200
142	7.100	23.294	20.520	20.554	0.566	5.390	2.754	48.300
143	7.150	23.458	21.780	21.818	0.602	6.010	2.759	50.300
144	7.200	23.622	24.310	24.352	0.628	6.800	2.579	34.200
145	7.250	23.786	22.310	22.358	0.712	7.720	3.185	33.000
146	7.300	23.950	22.740	22.799	0.759	9.460	3.329	26.100
147	7.350	24.114	14.540	14.653	0.832	18.040	5.678	0.000
148	7.400	24.278	37.970	38.086	1.256	18.600	3.298	0.000
149	7.450	24.442	25.760	25.792	1.369	5.190	5.308	0.000
150	7.500	24.606	21.020	21.319	1.366	47.950	6.407	0.000
151	7.550	24.770	25.050	25.473	1.205	67.830	4.730	0.000
152	7.600	24.934	21.700	21.801	0.990	16.230	4.541	0.000
153	7.650	25.098	22.340	22.401	0.810	9.750	3.616	0.000
154	7.700	25.262	30.240	30.300	0.735	9.600	2.426	0.000
155	7.750	25.426	24.990	24.977	0.703	-2.080	2.815	0.000
156	7.800	25.590	18.030	18.004	0.873	-4.140	4.849	0.000
157	7.850	25.754	15.480	15.424	0.897	-8.930	5.816	0.000
158	7.900	25.918	13.940	13.895	0.892	-7.260	6.420	0.000
159	7.950	26.082	45.960	45.938	1.451	-3.470	3.159	0.000
160	8.000	26.246	90.720	90.773	1.365	8.460	1.504	0.000
161	8.050	26.410	738.550	738.643	0.000	14.820	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221628
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-6
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	10:49
CPT File:	13-53075_GP14-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722306.091
Northing / Lat:	4294321.619
Elevation:	143.954
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	20.580	20.620	0.002	6.450	0.010	34.400
2	0.100	0.328	38.720	38.739	0.011	3.030	0.028	39.000
3	0.150	0.492	46.610	46.616	0.021	0.920	0.045	55.200
4	0.200	0.656	46.330	46.405	0.052	11.940	0.112	54.900
5	0.250	0.820	98.960	99.010	0.149	8.000	0.150	63.500
6	0.300	0.984	89.440	89.444	0.217	0.650	0.243	65.000
7	0.350	1.148	48.120	48.132	0.248	1.920	0.515	73.100
8	0.400	1.312	56.660	56.654	0.508	-0.920	0.897	88.700
9	0.450	1.476	65.560	65.572	0.752	1.920	1.147	93.000
10	0.500	1.640	65.310	65.424	0.845	18.330	1.292	92.200
11	0.550	1.804	63.460	63.482	0.840	3.590	1.323	93.800
12	0.600	1.968	63.000	63.007	0.795	1.070	1.262	77.700
13	0.650	2.133	62.160	62.158	1.225	-0.260	1.971	71.700
14	0.700	2.297	77.070	77.064	0.703	-1.020	0.912	73.800
15	0.750	2.461	67.420	67.511	0.563	14.620	0.834	66.100
16	0.800	2.625	90.590	90.743	0.381	24.500	0.420	71.400
17	0.850	2.789	100.260	100.294	1.032	5.470	1.029	82.000
18	0.900	2.953	112.150	112.175	1.107	4.020	0.987	76.100
19	0.950	3.117	90.420	90.446	1.468	4.160	1.623	75.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	85.640	85.645	0.826	0.850	0.964	74.200
21	1.050	3.445	83.840	83.840	0.633	0.060	0.755	71.600
22	1.100	3.609	90.080	90.093	0.568	2.040	0.630	73.000
23	1.150	3.773	74.930	74.948	0.627	2.920	0.837	79.400
24	1.200	3.937	63.570	63.571	0.480	0.220	0.755	75.400
25	1.250	4.101	56.220	56.220	0.359	-0.070	0.639	76.300
26	1.300	4.265	57.020	57.051	0.593	5.000	1.039	77.300
27	1.350	4.429	60.300	60.330	0.507	4.800	0.840	79.600
28	1.400	4.593	51.270	51.315	0.756	7.280	1.473	78.800
29	1.450	4.757	57.370	57.376	1.156	0.890	2.015	76.300
30	1.500	4.921	53.390	53.395	0.567	0.790	1.062	75.400
31	1.550	5.085	37.340	37.363	0.474	3.710	1.269	78.400
32	1.600	5.249	40.310	40.305	0.424	-0.870	1.052	77.400
33	1.650	5.413	38.830	38.874	0.990	7.030	2.547	84.200
34	1.700	5.577	38.420	38.449	1.287	4.720	3.347	72.300
35	1.750	5.741	214.210	214.213	0.977	0.500	0.456	78.900
36	1.800	5.905	272.010	272.069	2.095	9.410	0.770	82.100
37	1.850	6.069	261.520	261.582	2.393	10.010	0.915	91.400
38	1.900	6.234	199.120	199.184	3.053	10.280	1.533	102.400
39	1.950	6.398	124.030	124.057	1.454	4.350	1.172	105.300
40	2.000	6.562	216.540	216.552	1.241	1.860	0.573	101.500
41	2.050	6.726	193.150	193.168	1.308	2.940	0.677	97.100
42	2.100	6.890	254.280	254.329	1.705	7.900	0.670	95.000
43	2.150	7.054	283.560	283.582	0.966	3.460	0.341	95.100
44	2.200	7.218	286.410	286.427	1.297	2.700	0.453	106.500
45	2.250	7.382	265.840	265.842	1.659	0.290	0.624	110.900
46	2.300	7.546	149.470	149.477	1.560	1.110	1.044	99.100
47	2.350	7.710	85.270	85.282	1.967	1.850	2.306	99.800
48	2.400	7.874	55.550	55.541	1.806	-1.490	3.252	95.300
49	2.450	8.038	52.850	52.876	1.581	4.150	2.990	90.400
50	2.500	8.202	31.980	32.064	1.349	13.430	4.207	91.500
51	2.550	8.366	29.770	30.169	1.312	63.970	4.349	0.000
52	2.600	8.530	33.840	34.105	1.026	42.450	3.008	0.000
53	2.650	8.694	27.820	27.898	1.240	12.510	4.445	0.000
54	2.700	8.858	32.880	32.970	1.434	14.460	4.349	0.000
55	2.750	9.022	32.620	32.621	1.430	0.110	4.384	0.000
56	2.800	9.186	27.150	27.147	1.445	-0.500	5.323	0.000
57	2.850	9.350	29.280	29.286	1.425	1.000	4.866	0.000
58	2.900	9.514	22.110	22.085	1.231	-4.060	5.574	0.000
59	2.950	9.678	24.670	24.652	0.943	-2.900	3.825	0.000
60	3.000	9.842	17.980	17.967	0.861	-2.130	4.792	0.000
61	3.050	10.006	20.530	20.603	0.710	11.630	3.446	0.000
62	3.100	10.170	26.120	26.244	1.361	19.900	5.186	0.000
63	3.150	10.335	29.060	29.141	1.686	12.980	5.786	0.000
64	3.200	10.499	125.090	125.186	10.753	15.370	8.590	0.000
65	3.250	10.663	106.350	106.404	0.000	8.650	0.000	0.000
66	3.300	10.827	392.290	392.317	0.000	4.360	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221630
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-6S
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-04-2014
CPT Time:	14:50
CPT File:	13-53075_GP14-6S.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722305.590
Northing / Lat:	4294321.710
Elevation:	144.000
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.570	2.566	0.002	-0.690	0.078	28.300
2	0.100	0.328	6.880	6.881	0.008	0.220	0.116	37.500
3	0.150	0.492	7.410	7.410	0.006	0.070	0.081	46.200
4	0.200	0.656	6.940	6.936	0.004	-0.710	0.058	47.200
5	0.250	0.820	5.140	5.136	0.005	-0.600	0.097	55.800
6	0.300	0.984	4.570	4.568	0.001	-0.370	0.022	64.600
7	0.350	1.148	4.080	4.077	0.005	-0.500	0.123	58.200
8	0.400	1.312	4.140	4.139	0.009	-0.230	0.217	72.100
9	0.450	1.476	3.490	3.486	0.009	-0.590	0.258	65.600
10	0.500	1.640	3.200	3.196	0.008	-0.590	0.250	67.400
11	0.550	1.804	3.170	3.167	0.007	-0.550	0.221	64.400
12	0.600	1.968	2.980	2.977	0.009	-0.450	0.302	63.800
13	0.650	2.133	3.120	3.118	0.008	-0.320	0.257	55.800
14	0.700	2.297	3.410	3.408	0.008	-0.280	0.235	59.400
15	0.750	2.461	4.450	4.447	0.006	-0.530	0.135	60.100
16	0.800	2.625	6.140	6.138	0.006	-0.320	0.098	59.600
17	0.850	2.789	7.500	7.499	0.007	-0.210	0.093	53.200
18	0.900	2.953	7.630	7.627	0.008	-0.420	0.105	58.000
19	0.950	3.117	7.790	7.788	0.010	-0.260	0.128	60.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	6.640	6.638	0.009	-0.340	0.136	44.200
21	1.050	3.445	5.160	5.157	0.009	-0.440	0.175	50.800
22	1.100	3.609	4.500	4.497	0.009	-0.550	0.200	62.100
23	1.150	3.773	3.970	3.966	0.009	-0.640	0.227	58.300
24	1.200	3.937	3.640	3.636	0.009	-0.680	0.248	55.500
25	1.250	4.101	4.030	4.027	0.011	-0.480	0.273	74.700
26	1.300	4.265	5.210	5.206	0.019	-0.640	0.365	56.900
27	1.350	4.429	7.700	7.697	0.010	-0.500	0.130	57.900
28	1.400	4.593	10.130	10.127	0.019	-0.510	0.188	47.500
29	1.450	4.757	12.680	12.676	0.016	-0.570	0.126	62.900
30	1.500	4.921	14.760	14.756	0.011	-0.590	0.075	63.700
31	1.550	5.085	14.490	14.487	0.012	-0.430	0.083	73.400
32	1.600	5.249	12.190	12.188	0.013	-0.380	0.107	54.400
33	1.650	5.413	11.480	11.479	0.015	-0.220	0.131	64.000
34	1.700	5.577	9.510	9.509	0.011	-0.200	0.116	55.900
35	1.750	5.741	7.830	7.828	0.013	-0.250	0.166	63.500
36	1.800	5.905	7.140	7.139	0.012	-0.170	0.168	66.500
37	1.850	6.069	7.620	7.618	0.012	-0.250	0.158	68.100
38	1.900	6.234	7.170	7.169	0.013	-0.150	0.181	69.800
39	1.950	6.398	8.040	8.038	0.011	-0.250	0.137	75.100
40	2.000	6.562	8.130	8.129	0.012	-0.130	0.148	79.200
41	2.050	6.726	6.970	6.969	0.012	-0.140	0.172	73.800
42	2.100	6.890	5.510	5.509	0.015	-0.220	0.272	59.500
43	2.150	7.054	5.320	5.319	0.014	-0.200	0.263	71.600
44	2.200	7.218	5.970	5.968	0.011	-0.320	0.184	55.100
45	2.250	7.382	6.960	6.960	0.013	-0.010	0.187	62.600
46	2.300	7.546	9.230	9.230	0.011	-0.050	0.119	62.000
47	2.350	7.710	11.130	11.131	0.012	0.120	0.108	65.400
48	2.400	7.874	14.880	14.879	0.014	-0.100	0.094	62.900
49	2.450	8.038	19.090	19.092	0.023	0.330	0.120	70.300
50	2.500	8.202	21.240	21.243	0.044	0.540	0.207	60.600
51	2.550	8.366	24.210	24.212	0.088	0.380	0.363	58.500
52	2.600	8.530	22.080	22.089	0.117	1.480	0.530	48.300
53	2.650	8.694	21.860	21.870	0.135	1.580	0.617	38.700
54	2.700	8.858	20.220	20.230	0.138	1.590	0.682	41.100
55	2.750	9.022	18.860	18.872	0.123	1.860	0.652	37.100
56	2.800	9.186	17.720	17.732	0.126	1.860	0.711	43.000
57	2.850	9.350	16.270	16.285	0.116	2.420	0.712	55.500
58	2.900	9.514	16.590	16.602	0.112	1.900	0.675	46.000
59	2.950	9.678	16.600	16.616	0.087	2.560	0.524	39.700
60	3.000	9.842	17.120	17.137	0.067	2.690	0.391	38.500
61	3.050	10.006	15.460	15.479	0.057	3.050	0.368	39.400
62	3.100	10.170	14.610	14.631	0.042	3.400	0.287	49.600
63	3.150	10.335	14.060	14.082	0.023	3.520	0.163	37.300
64	3.200	10.499	12.790	12.813	0.013	3.730	0.101	45.900
65	3.250	10.663	10.340	10.366	0.015	4.150	0.145	41.100
66	3.300	10.827	8.150	8.176	0.011	4.170	0.135	50.100
67	3.350	10.991	6.760	6.790	0.010	4.860	0.147	41.900
68	3.400	11.155	4.860	4.893	0.015	5.230	0.307	46.700
69	3.450	11.319	3.490	3.524	0.012	5.450	0.341	37.100
70	3.500	11.483	1.950	1.985	0.013	5.680	0.655	48.900
71	3.550	11.647	2.100	2.136	0.018	5.750	0.843	42.900
72	3.600	11.811	2.500	2.530	0.015	4.810	0.593	56.700
73	3.650	11.975	5.260	5.291	0.049	4.970	0.926	53.100
74	3.700	12.139	10.490	10.522	0.049	5.120	0.466	59.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	14.170	14.198	0.046	4.450	0.324	69.300
76	3.800	12.467	9.170	9.199	0.071	4.680	0.772	68.300
77	3.850	12.631	6.000	6.038	0.080	6.040	1.325	69.800
78	3.900	12.795	4.130	4.168	0.083	6.120	1.991	69.100
79	3.950	12.959	1.920	1.960	0.059	6.420	3.010	61.500
80	4.000	13.123	2.510	2.557	0.016	7.570	0.626	64.400
81	4.050	13.287	3.360	3.412	0.008	8.390	0.234	63.400
82	4.100	13.451	2.940	2.999	0.012	9.530	0.400	73.000
83	4.150	13.615	1.650	1.715	0.004	10.440	0.233	79.200
84	4.200	13.779	1.410	1.517	0.004	17.150	0.264	74.700
85	4.250	13.943	1.340	1.447	0.011	17.200	0.760	81.800
86	4.300	14.107	2.130	2.236	0.012	17.020	0.537	72.000
87	4.350	14.271	2.400	2.509	0.015	17.460	0.598	84.200
88	4.400	14.436	2.970	3.079	0.019	17.430	0.617	81.900
89	4.450	14.600	3.750	3.865	0.035	18.350	0.906	88.900
90	4.500	14.764	3.710	3.839	0.068	20.620	1.771	83.100
91	4.550	14.928	6.780	6.925	0.167	23.240	2.412	105.500
92	4.600	15.092	18.990	19.146	0.239	24.990	1.248	88.100
93	4.650	15.256	16.740	16.830	0.362	14.420	2.151	90.600
94	4.700	15.420	15.450	15.503	0.501	8.460	3.232	96.100
95	4.750	15.584	31.690	31.738	0.734	7.620	2.313	91.300
96	4.800	15.748	47.780	47.807	0.957	4.320	2.002	94.400
97	4.850	15.912	72.540	72.507	1.222	-5.230	1.685	94.000
98	4.900	16.076	74.880	74.811	1.204	-11.060	1.609	76.700
99	4.950	16.240	57.770	57.693	1.013	-12.280	1.756	77.600
100	5.000	16.404	39.800	39.722	0.879	-12.540	2.213	57.900
101	5.050	16.568	26.890	26.810	0.546	-12.860	2.037	57.900
102	5.100	16.732	24.200	24.134	1.010	-10.540	4.185	45.300
103	5.150	16.896	25.200	25.189	0.867	-1.740	3.442	36.200
104	5.200	17.060	25.760	25.768	0.770	1.210	2.988	43.600
105	5.250	17.224	22.090	22.128	0.672	6.110	3.037	35.200
106	5.300	17.388	18.640	18.681	0.684	6.630	3.661	47.600
107	5.350	17.552	23.910	23.972	0.783	9.930	3.266	57.400
108	5.400	17.716	27.800	27.918	0.694	18.970	2.486	58.200
109	5.450	17.880	22.700	22.849	0.724	23.920	3.169	48.800
110	5.500	18.044	24.000	24.103	0.647	16.440	2.684	62.100
111	5.550	18.208	16.880	16.981	0.710	16.120	4.181	58.100
112	5.600	18.372	19.660	19.768	0.643	17.250	3.253	70.800
113	5.650	18.537	14.030	14.154	0.567	19.910	4.006	81.000
114	5.700	18.701	27.350	27.641	0.606	46.620	2.192	90.100
115	5.750	18.865	33.280	33.582	0.830	48.370	2.472	82.700
116	5.800	19.029	33.320	33.557	0.948	37.950	2.825	90.300
117	5.850	19.193	32.130	32.305	0.851	28.050	2.634	78.400
118	5.900	19.357	27.470	27.587	0.705	18.820	2.556	91.800
119	5.950	19.521	13.880	13.966	0.523	13.710	3.745	80.400
120	6.000	19.685	8.830	8.902	0.411	11.490	4.617	69.700
121	6.050	19.849	6.980	7.094	0.319	18.320	4.497	62.600
122	6.100	20.013	10.270	10.392	0.482	19.520	4.638	43.400
123	6.150	20.177	25.860	25.991	0.421	21.020	1.620	48.500
124	6.200	20.341	25.560	25.693	0.956	21.290	3.721	46.000
125	6.250	20.505	101.020	101.147	0.927	20.310	0.916	49.200
126	6.300	20.669	74.510	74.613	0.784	16.570	1.051	51.100
127	6.350	20.833	38.220	38.325	0.788	16.860	2.056	56.900
128	6.400	20.997	27.220	27.310	0.597	14.420	2.186	56.500
129	6.450	21.161	30.910	30.972	0.619	9.880	1.999	46.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	24.110	24.147	0.470	6.000	1.946	39.800
131	6.550	21.489	40.140	40.170	0.795	4.830	1.979	31.100
132	6.600	21.653	55.540	55.601	1.096	9.850	1.971	29.700
133	6.650	21.817	18.710	18.762	1.391	8.290	7.414	27.800
134	6.700	21.981	27.610	27.818	1.363	33.350	4.900	23.100
135	6.750	22.145	48.430	48.558	1.440	20.550	2.966	28.900
136	6.800	22.309	39.920	40.018	1.640	15.640	4.098	29.900
137	6.850	22.473	55.380	55.461	1.581	12.970	2.851	47.800
138	6.900	22.638	60.610	60.716	1.450	16.980	2.388	72.400
139	6.950	22.802	70.160	70.245	1.565	13.650	2.228	78.900
140	7.000	22.966	37.220	37.331	1.476	17.850	3.954	75.900
141	7.050	23.130	55.190	55.327	1.647	21.920	2.977	91.700
142	7.100	23.294	84.980	85.166	2.260	29.760	2.654	97.500
143	7.150	23.458	128.810	128.968	2.761	25.290	2.141	95.700
144	7.200	23.622	182.850	183.000	3.191	23.970	1.744	78.100
145	7.250	23.786	173.920	174.028	3.372	17.280	1.938	76.500
146	7.300	23.950	176.010	176.100	3.172	14.360	1.801	91.200
147	7.350	24.114	162.910	162.971	3.564	9.850	2.187	99.500
148	7.400	24.278	139.580	139.630	3.421	7.970	2.450	99.300
149	7.450	24.442	109.140	109.215	3.074	12.080	2.815	104.700
150	7.500	24.606	87.160	87.241	2.845	12.940	3.261	86.000
151	7.550	24.770	57.850	57.890	2.308	6.370	3.987	74.600
152	7.600	24.934	26.010	26.002	1.605	-1.210	6.172	79.200
153	7.650	25.098	20.730	20.709	1.043	-3.310	5.036	53.400
154	7.700	25.262	31.160	31.165	1.132	0.800	3.632	53.200
155	7.750	25.426	52.700	52.731	1.404	4.980	2.663	48.300
156	7.800	25.590	37.860	37.921	1.413	9.770	3.726	60.100
157	7.850	25.754	38.970	39.034	1.433	10.330	3.671	65.100
158	7.900	25.918	39.890	39.969	1.130	12.580	2.827	76.700
159	7.950	26.082	21.470	21.553	0.936	13.320	4.343	74.000
160	8.000	26.246	29.760	29.855	0.879	15.230	2.944	66.400
161	8.050	26.410	38.220	38.302	1.072	13.100	2.799	57.500
162	8.100	26.574	33.840	33.898	1.220	9.340	3.599	55.500
163	8.150	26.739	37.800	37.837	1.187	5.930	3.137	39.400
164	8.200	26.903	27.450	27.494	1.154	7.080	4.197	35.700
165	8.250	27.067	16.400	16.457	1.059	9.200	6.435	32.600
166	8.300	27.231	14.240	14.303	0.901	10.090	6.299	29.800
167	8.350	27.395	29.820	29.904	0.951	13.500	3.180	32.700
168	8.400	27.559	21.770	21.855	1.127	13.550	5.157	29.800
169	8.450	27.723	28.500	28.581	1.000	12.960	3.499	20.900
170	8.500	27.887	45.780	45.841	0.517	9.720	1.128	23.600
171	8.550	28.051	12.830	12.933	0.746	16.440	5.768	23.900
172	8.600	28.215	29.980	30.347	0.886	58.820	2.920	30.100
173	8.650	28.379	28.200	28.514	0.776	50.350	2.721	25.600
174	8.700	28.543	13.940	14.261	0.646	51.360	4.530	48.800
175	8.750	28.707	12.490	12.669	0.574	28.610	4.531	57.100
176	8.800	28.871	25.310	25.467	0.561	25.180	2.203	65.300
177	8.850	29.035	23.830	23.973	0.753	22.840	3.141	72.100
178	8.900	29.199	43.450	43.599	1.118	23.800	2.564	71.500
179	8.950	29.363	51.590	51.898	1.580	49.340	3.044	81.000
180	9.000	29.527	59.950	60.141	1.930	30.590	3.209	77.700
181	9.050	29.691	57.960	58.032	1.786	11.610	3.078	81.400
182	9.100	29.855	41.230	41.277	1.398	7.590	3.387	79.800
183	9.150	30.019	23.110	23.150	0.959	6.420	4.143	48.100
184	9.200	30.183	25.110	25.109	0.788	-0.210	3.138	40.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	27.800	27.822	1.010	3.560	3.630	33.000
186	9.300	30.511	62.880	62.920	1.904	6.470	3.026	25.800
187	9.350	30.675	97.520	97.568	2.607	7.660	2.672	25.100
188	9.400	30.840	70.740	70.802	3.420	9.990	4.830	22.800
189	9.450	31.004	103.390	103.539	2.521	23.860	2.435	25.300
190	9.500	31.168	13.530	13.640	2.244	17.560	16.452	30.100
191	9.550	31.332	32.930	33.069	1.007	22.230	3.045	35.600
192	9.600	31.496	36.260	36.364	0.758	16.680	2.084	44.300
193	9.650	31.660	22.640	22.735	0.762	15.240	3.352	46.900
194	9.700	31.824	19.910	19.996	0.644	13.810	3.221	58.900
195	9.750	31.988	22.790	22.973	0.621	29.270	2.703	79.100
196	9.800	32.152	23.850	23.912	0.531	9.930	2.221	78.800
197	9.850	32.316	20.350	20.406	0.585	9.030	2.867	73.100
198	9.900	32.480	24.130	24.202	0.803	11.510	3.318	72.500
199	9.950	32.644	31.560	31.647	1.005	13.910	3.176	67.800
200	10.000	32.808	47.750	47.859	1.071	17.510	2.238	70.900
201	10.050	32.972	51.240	51.355	1.102	18.480	2.146	71.800
202	10.100	33.136	54.690	54.832	1.104	22.690	2.013	69.500
203	10.150	33.300	90.370	90.488	1.461	18.960	1.615	87.600
204	10.200	33.464	75.870	75.996	1.473	20.260	1.938	82.500
205	10.250	33.628	70.350	70.496	1.499	23.450	2.126	81.300
206	10.300	33.792	69.570	69.704	1.454	21.500	2.086	71.500
207	10.350	33.956	59.240	59.353	1.348	18.120	2.271	73.500
208	10.400	34.120	54.060	54.154	1.355	15.040	2.502	51.700
209	10.450	34.284	51.960	52.044	1.616	13.380	3.105	41.500
210	10.500	34.448	83.400	83.501	1.749	16.230	2.095	32.500
211	10.550	34.612	68.420	68.534	1.713	18.190	2.500	26.900
212	10.600	34.776	12.460	12.559	1.362	15.860	10.845	19.500
213	10.650	34.941	32.840	32.949	1.035	17.420	3.141	19.100
214	10.700	35.105	29.760	29.868	1.083	17.380	3.626	23.200
215	10.750	35.269	43.220	43.338	1.437	18.900	3.316	21.300
216	10.800	35.433	40.330	40.439	1.315	17.420	3.252	24.900
217	10.850	35.597	25.860	25.977	1.265	18.680	4.870	23.700
218	10.900	35.761	31.930	32.057	1.219	20.310	3.803	17.600
219	10.950	35.925	40.210	40.305	1.232	15.270	3.057	14.400
220	11.000	36.089	29.130	29.225	1.262	15.270	4.318	19.700
221	11.050	36.253	34.270	34.362	1.208	14.720	3.516	17.700
222	11.100	36.417	38.400	38.490	0.915	14.490	2.377	12.200
223	11.150	36.581	34.180	34.281	0.679	16.100	1.981	16.100
224	11.200	36.745	45.280	45.384	0.892	16.700	1.965	15.200
225	11.250	36.909	55.840	55.941	1.270	16.230	2.270	19.800
226	11.300	37.073	47.560	47.672	1.346	17.910	2.823	22.000
227	11.350	37.237	52.940	53.146	1.207	32.940	2.271	24.800
228	11.400	37.401	44.150	44.302	0.903	24.280	2.038	29.400
229	11.450	37.565	75.760	75.859	0.840	15.840	1.107	30.700
230	11.500	37.729	46.810	46.923	1.839	18.150	3.919	40.900
231	11.550	37.893	58.830	58.958	1.904	20.570	3.229	56.300
232	11.600	38.057	128.900	129.020	2.474	19.190	1.918	58.400
233	11.650	38.221	136.100	136.201	3.070	16.120	2.254	49.700
234	11.700	38.385	112.990	113.094	2.859	16.700	2.528	46.100
235	11.750	38.549	160.270	160.411	3.184	22.640	1.985	31.900
236	11.800	38.713	131.080	131.178	3.251	15.770	2.478	28.000
237	11.850	38.877	50.330	50.487	3.293	25.220	6.522	21.300
238	11.900	39.042	29.410	29.607	2.206	31.620	7.451	22.600
239	11.950	39.206	118.480	118.596	3.533	18.570	2.979	19.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	133.710	133.804	4.129	14.980	3.086	13.800
241	12.050	39.534	43.430	43.527	3.746	15.560	8.606	12.700
242	12.100	39.698	42.310	42.400	2.354	14.400	5.552	12.100
243	12.150	39.862	30.380	30.477	1.549	15.470	5.083	17.500
244	12.200	40.026	24.280	24.537	1.394	41.130	5.681	14.800
245	12.250	40.190	61.070	61.250	1.347	28.800	2.199	16.000
246	12.300	40.354	75.720	75.834	2.031	18.310	2.678	16.900
247	12.350	40.518	44.360	44.488	1.553	20.540	3.491	16.700
248	12.400	40.682	15.600	15.713	1.272	18.040	8.095	13.000
249	12.450	40.846	14.430	14.552	0.767	19.530	5.271	19.000
250	12.500	41.010	23.450	23.559	0.418	17.480	1.774	19.900
251	12.550	41.174	20.590	20.694	0.898	16.610	4.339	13.600
252	12.600	41.338	15.590	15.679	1.011	14.190	6.448	16.200
253	12.650	41.502	69.040	69.172	1.034	21.130	1.495	19.700
254	12.700	41.666	57.370	57.483	1.270	18.050	2.209	16.900
255	12.750	41.830	43.790	43.902	1.339	18.000	3.050	28.500
256	12.800	41.994	46.900	47.013	1.704	18.070	3.625	32.000
257	12.850	42.158	76.780	76.892	1.838	17.890	2.390	35.700
258	12.900	42.322	81.560	81.686	2.129	20.230	2.606	29.400
259	12.950	42.486	67.760	67.904	2.258	23.050	3.325	33.800
260	13.000	42.650	41.660	41.879	1.856	35.160	4.432	30.000
261	13.050	42.814	46.930	47.181	1.313	40.260	2.783	23.000
262	13.100	42.978	27.040	27.318	1.019	44.520	3.730	29.400
263	13.150	43.143	17.620	17.942	0.832	51.580	4.637	50.700
264	13.200	43.307	34.540	34.894	0.770	56.780	2.207	57.900
265	13.250	43.471	41.860	42.130	0.880	43.270	2.089	67.000
266	13.300	43.635	35.220	35.372	1.015	24.370	2.869	80.300
267	13.350	43.799	27.870	27.996	1.023	20.110	3.654	59.500
268	13.400	43.963	19.560	19.676	0.858	18.610	4.361	48.900
269	13.450	44.127	16.640	16.762	0.634	19.490	3.782	38.500
270	13.500	44.291	14.480	14.595	0.492	18.400	3.371	31.900
271	13.550	44.455	20.710	20.837	0.302	20.400	1.449	40.500
272	13.600	44.619	32.400	32.527	0.490	20.300	1.506	38.500
273	13.650	44.783	48.690	48.831	0.840	22.550	1.720	30.500
274	13.700	44.947	28.430	28.557	1.014	20.340	3.551	49.300
275	13.750	45.111	23.000	23.121	0.984	19.350	4.256	54.800
276	13.800	45.275	45.650	45.819	1.015	27.090	2.215	63.100
277	13.850	45.439	62.720	62.867	1.129	23.510	1.796	62.800
278	13.900	45.603	88.000	88.144	1.430	23.030	1.622	68.300
279	13.950	45.767	95.620	95.747	1.409	20.280	1.472	64.400
280	14.000	45.931	78.570	78.676	1.498	16.910	1.904	51.000
281	14.050	46.095	62.950	63.045	1.422	15.290	2.256	41.300
282	14.100	46.259	72.070	72.177	1.372	17.170	1.901	33.500
283	14.150	46.423	56.800	56.914	1.507	18.200	2.648	31.000
284	14.200	46.587	50.610	50.729	1.477	19.050	2.912	21.200
285	14.250	46.751	36.590	36.708	1.261	18.980	3.435	18.700
286	14.300	46.915	47.780	47.901	1.441	19.360	3.008	20.900
287	14.350	47.079	52.660	52.786	1.322	20.110	2.504	22.900
288	14.400	47.244	32.570	32.747	1.733	28.290	5.292	13.100
289	14.450	47.408	61.390	61.531	1.404	22.600	2.282	12.800
290	14.500	47.572	31.100	31.222	1.333	19.610	4.269	18.500
291	14.550	47.736	36.320	36.479	1.373	25.430	3.764	16.500
292	14.600	47.900	34.200	34.298	1.521	15.750	4.435	15.000
293	14.650	48.064	30.110	30.235	1.533	20.080	5.070	16.300
294	14.700	48.228	29.510	29.656	1.267	23.430	4.272	13.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	58.190	58.319	1.113	20.740	1.908	17.700
296	14.800	48.556	29.660	29.820	1.133	25.610	3.799	23.000
297	14.850	48.720	37.050	37.190	1.168	22.430	3.141	22.800
298	14.900	48.884	41.620	41.758	1.308	22.130	3.132	26.800
299	14.950	49.048	30.790	30.922	1.353	21.160	4.376	26.700
300	15.000	49.212	30.430	30.574	1.268	23.130	4.147	21.500
301	15.050	49.376	21.940	22.093	1.176	24.470	5.323	26.900
302	15.100	49.540	26.680	26.955	1.033	44.070	3.832	18.500
303	15.150	49.704	17.270	17.620	0.808	56.100	4.586	25.700
304	15.200	49.868	6.360	6.522	0.740	25.970	11.346	31.200
305	15.250	50.032	41.020	41.173	0.860	24.530	2.089	31.200
306	15.300	50.196	48.660	48.830	1.050	27.240	2.150	43.400
307	15.350	50.360	52.620	52.784	1.465	26.200	2.775	51.200
308	15.400	50.524	38.910	39.057	1.531	23.610	3.920	58.200
309	15.450	50.688	34.560	34.725	1.440	26.370	4.147	50.200
310	15.500	50.852	62.510	62.748	1.690	38.090	2.693	67.000
311	15.550	51.016	90.490	90.668	1.718	28.550	1.895	51.700
312	15.600	51.180	70.110	70.187	2.255	12.290	3.213	47.800
313	15.650	51.345	69.700	69.776	2.240	12.140	3.210	34.100
314	15.700	51.509	67.420	67.519	2.434	15.810	3.605	20.300
315	15.750	51.673	66.930	67.087	2.272	25.140	3.387	20.800
316	15.800	51.837	75.760	75.900	2.366	22.450	3.117	15.000
317	15.850	52.001	97.310	97.436	2.792	20.200	2.865	15.100
318	15.900	52.165	53.780	53.914	3.322	21.440	6.162	13.600
319	15.950	52.329	55.820	55.980	2.408	25.560	4.302	13.900
320	16.000	52.493	113.780	113.934	2.919	24.660	2.562	16.600
321	16.050	52.657	134.760	134.891	2.932	20.920	2.174	9.900
322	16.100	52.821	70.150	70.323	2.763	27.740	3.929	12.600
323	16.150	52.985	72.630	72.783	1.917	24.450	2.634	13.900
324	16.200	53.149	61.900	62.053	1.328	24.570	2.140	15.400
325	16.250	53.313	44.700	44.853	1.147	24.490	2.557	14.900
326	16.300	53.477	50.280	50.434	1.262	24.700	2.502	29.200
327	16.350	53.641	46.300	46.441	1.673	22.620	3.602	27.000
328	16.400	53.805	68.910	69.071	2.007	25.710	2.906	31.000
329	16.450	53.969	61.480	61.644	2.388	26.230	3.874	42.200
330	16.500	54.133	44.650	44.816	1.843	26.620	4.112	66.900
331	16.550	54.297	31.940	32.118	1.493	28.500	4.648	65.000
332	16.600	54.461	35.810	36.176	0.856	58.550	2.366	69.900
333	16.650	54.625	25.130	25.562	0.681	69.130	2.664	77.500
334	16.700	54.789	24.430	24.915	0.622	77.630	2.497	81.800
335	16.750	54.953	27.290	27.817	0.632	84.420	2.272	84.900
336	16.800	55.117	29.610	30.130	0.677	83.300	2.247	75.300
337	16.850	55.281	28.280	28.772	0.719	78.810	2.499	75.600
338	16.900	55.446	32.900	33.437	0.803	86.070	2.402	66.200
339	16.950	55.610	40.850	41.301	0.947	72.250	2.293	54.100
340	17.000	55.774	40.770	40.934	1.170	26.300	2.858	60.000
341	17.050	55.938	59.270	59.460	1.083	30.370	1.821	45.600
342	17.100	56.102	47.280	47.443	1.225	26.070	2.582	42.000
343	17.150	56.266	56.570	56.714	1.310	23.030	2.310	51.100
344	17.200	56.430	30.260	30.422	1.103	25.970	3.626	51.600
345	17.250	56.594	25.820	26.059	1.125	38.300	4.317	67.700
346	17.300	56.758	38.370	38.634	0.879	42.270	2.275	87.200
347	17.350	56.922	44.800	45.021	1.014	35.480	2.252	88.300
348	17.400	57.086	38.510	38.663	1.021	24.540	2.641	83.100
349	17.450	57.250	35.310	35.465	1.218	24.850	3.434	96.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
350	17.500	57.414	33.310	33.473	1.103	26.050	3.295	84.200
351	17.550	57.578	30.230	30.401	1.304	27.390	4.289	92.100
352	17.600	57.742	39.600	39.819	1.221	35.070	3.066	76.200
353	17.650	57.906	44.780	45.008	1.529	36.550	3.397	62.400
354	17.700	58.070	38.600	38.785	1.776	29.590	4.579	48.900
355	17.750	58.234	49.950	50.121	2.098	27.390	4.186	35.400
356	17.800	58.398	63.880	64.048	2.033	26.890	3.174	26.300
357	17.850	58.562	108.880	109.034	2.148	24.670	1.970	22.600
358	17.900	58.726	113.090	113.242	2.859	24.350	2.525	18.000
359	17.950	58.890	140.400	140.594	3.304	31.070	2.350	14.100
360	18.000	59.054	88.530	88.719	3.538	30.200	3.988	12.300
361	18.050	59.218	93.840	94.008	2.776	26.930	2.953	9.600
362	18.100	59.382	117.170	117.346	2.545	28.150	2.169	11.000
363	18.150	59.547	77.240	77.440	2.680	32.050	3.461	14.100
364	18.200	59.711	69.730	69.967	2.647	37.910	3.783	9.500
365	18.250	59.875	56.440	56.685	2.379	39.260	4.197	8.500
366	18.300	60.039	84.860	85.268	2.797	65.290	3.280	15.100
367	18.350	60.203	90.450	90.719	3.117	43.090	3.436	15.500
368	18.400	60.367	124.500	124.748	3.160	39.680	2.533	17.600
369	18.450	60.531	117.840	118.059	3.609	35.040	3.057	16.000
370	18.500	60.695	71.580	71.801	3.931	35.330	5.475	20.800
371	18.550	60.859	55.990	56.199	2.878	33.440	5.121	27.300
372	18.600	61.023	44.020	44.287	2.231	42.760	5.038	31.600
373	18.650	61.187	48.020	48.227	1.985	33.220	4.116	43.000
374	18.700	61.351	91.900	92.213	2.155	50.160	2.337	53.800
375	18.750	61.515	51.930	52.123	1.849	30.970	3.547	57.500
376	18.800	61.679	32.220	32.449	1.421	36.730	4.379	62.100
377	18.850	61.843	24.860	25.096	0.925	37.820	3.686	54.500
378	18.900	62.007	33.600	33.823	0.924	35.650	2.732	51.100
379	18.950	62.171	31.480	31.674	0.717	31.120	2.264	45.100
380	19.000	62.335	32.380	32.568	1.014	30.060	3.114	48.200
381	19.050	62.499	45.230	45.466	0.935	37.740	2.056	47.700
382	19.100	62.663	42.020	42.229	1.248	33.470	2.955	56.000
383	19.150	62.827	38.810	39.008	1.423	31.790	3.648	65.900
384	19.200	62.991	35.690	35.932	1.266	38.690	3.523	62.400
385	19.250	63.155	59.240	59.493	1.654	40.550	2.780	85.100
386	19.300	63.319	61.320	61.522	1.966	32.420	3.196	79.900
387	19.350	63.483	71.730	71.926	1.915	31.450	2.662	81.900
388	19.400	63.648	66.040	66.231	1.860	30.660	2.808	76.700
389	19.450	63.812	58.610	58.803	1.790	30.960	3.044	77.800
390	19.500	63.976	45.880	46.063	1.459	29.360	3.167	86.200
391	19.550	64.140	32.510	32.686	1.165	28.180	3.564	66.800
392	19.600	64.304	20.730	20.961	0.933	37.020	4.451	49.000
393	19.650	64.468	28.650	28.910	0.532	41.680	1.840	43.100
394	19.700	64.632	39.720	39.913	0.557	30.870	1.396	33.400
395	19.750	64.796	13.910	14.097	0.674	30.020	4.781	30.200
396	19.800	64.960	23.050	23.223	1.010	27.740	4.349	20.300
397	19.850	65.124	31.060	31.252	1.284	30.830	4.108	16.000
398	19.900	65.288	71.550	71.746	1.569	31.330	2.187	15.100
399	19.950	65.452	55.570	55.753	1.753	29.330	3.144	12.100
400	20.000	65.616	81.870	82.100	1.922	36.780	2.341	11.000
401	20.050	65.780	70.170	70.338	2.445	26.930	3.476	12.000
402	20.100	65.944	86.320	86.495	2.408	28.090	2.784	13.500
403	20.150	66.108	62.630	62.819	2.505	30.280	3.988	14.900
404	20.200	66.272	62.320	62.513	2.201	30.970	3.521	13.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
405	20.250	66.436	42.660	42.855	2.013	31.200	4.697	14.200
406	20.300	66.600	40.210	40.473	1.997	42.160	4.934	15.900
407	20.350	66.764	43.880	44.128	2.123	39.690	4.811	8.000
408	20.400	66.928	37.590	37.815	2.573	36.070	6.804	14.500
409	20.450	67.092	82.440	82.681	2.970	38.540	3.592	16.200
410	20.500	67.256	150.100	150.292	4.410	30.820	2.934	22.300
411	20.550	67.420	111.830	112.095	3.185	42.440	2.841	26.000
412	20.600	67.584	117.370	117.615	2.291	39.230	1.948	34.000
413	20.650	67.749	186.780	186.986	1.371	33.010	0.733	37.900
414	20.700	67.913	204.170	204.373	1.069	32.470	0.523	47.900
415	20.750	68.077	154.740	154.938	1.761	31.720	1.137	45.700
416	20.800	68.241	90.670	90.862	1.997	30.780	2.198	55.400
417	20.850	68.405	64.910	65.121	2.063	33.830	3.168	62.700
418	20.900	68.569	75.410	75.815	2.395	64.910	3.159	67.600
419	20.950	68.733	111.970	112.539	2.934	91.080	2.607	73.300
420	21.000	68.897	104.060	104.396	3.377	53.840	3.235	64.400
421	21.050	69.061	73.730	74.011	3.117	44.950	4.212	59.700
422	21.100	69.225	42.560	42.880	2.306	51.300	5.378	51.100
423	21.150	69.389	87.440	87.810	2.022	59.280	2.303	50.700
424	21.200	69.553	58.870	59.154	1.706	45.550	2.884	62.600
425	21.250	69.717	45.760	46.084	1.607	51.940	3.487	67.400
426	21.300	69.881	37.600	38.100	1.194	80.110	3.134	66.800
427	21.350	70.045	41.300	41.900	0.993	96.040	2.370	61.800
428	21.400	70.209	51.220	52.051	1.239	133.100	2.380	58.600
429	21.450	70.373	65.370	66.048	2.512	108.610	3.803	48.600
430	21.500	70.537	53.560	53.990	3.084	68.910	5.712	30.400
431	21.550	70.701	166.340	166.693	3.028	56.620	1.817	32.400
432	21.600	70.865	156.400	156.898	3.407	79.820	2.171	30.300
433	21.650	71.029	136.760	137.100	4.005	54.540	2.921	30.500
434	21.700	71.193	68.970	69.263	3.814	46.860	5.507	30.300
435	21.750	71.357	82.930	83.458	3.562	84.570	4.268	29.400
436	21.800	71.521	80.180	80.678	3.335	79.850	4.134	30.900
437	21.850	71.685	67.410	68.732	3.245	211.780	4.721	41.400
438	21.900	71.850	86.140	88.396	3.071	361.390	3.474	49.100
439	21.950	72.014	62.530	63.011	2.844	77.050	4.513	48.000
440	22.000	72.178	56.950	57.326	3.059	60.180	5.336	53.300
441	22.050	72.342	82.250	82.606	3.002	57.030	3.634	55.700
442	22.100	72.506	123.170	123.500	2.860	52.880	2.316	51.200
443	22.150	72.670	142.480	142.790	2.537	49.720	1.777	54.800
444	22.200	72.834	101.620	101.912	2.288	46.830	2.245	61.000
445	22.250	72.998	63.800	64.065	1.764	42.400	2.753	65.500
446	22.300	73.162	35.650	35.900	1.374	40.050	3.827	69.800
447	22.350	73.326	22.190	22.452	1.038	41.950	4.623	69.900
448	22.400	73.490	23.590	23.860	0.711	43.240	2.980	75.300
449	22.450	73.654	23.510	23.786	0.745	44.290	3.132	0.000
450	22.500	73.818	18.580	18.863	0.872	45.340	4.623	0.000
451	22.550	73.982	20.430	20.713	0.898	45.360	4.335	0.000
452	22.600	74.146	49.440	49.754	0.841	50.360	1.690	0.000
453	22.650	74.310	52.950	53.270	1.940	51.300	3.642	0.000
454	22.700	74.474	84.830	85.126	2.315	47.440	2.719	0.000
455	22.750	74.638	100.800	100.986	3.009	29.760	2.980	0.000
456	22.800	74.802	131.490	131.768	3.230	44.520	2.451	0.000
457	22.850	74.966	117.790	118.062	3.279	43.610	2.777	0.000
458	22.900	75.130	139.500	139.764	3.324	42.310	2.378	0.000
459	22.950	75.294	93.890	94.148	3.276	41.310	3.480	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
460	23.000	75.458	82.270	82.564	3.316	47.020	4.016	0.000
461	23.050	75.622	86.120	86.552	2.916	69.250	3.369	0.000
462	23.100	75.786	74.000	74.650	3.969	104.200	5.317	0.000
463	23.150	75.951	73.920	76.612	0.000	431.180	0.000	0.000
464	23.200	76.115	124.860	126.260	0.000	224.280	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221632
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-14-7
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	11:16
CPT File:	13-53075_GP14-7.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722318.578
Northing / Lat:	4294307.217
Elevation:	144.096
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.300	0.301	0.011	0.130	3.657	22.300
2	0.100	0.328	5.910	5.918	0.012	1.300	0.203	0.000
3	0.150	0.492	12.870	12.883	0.022	2.080	0.171	0.000
4	0.200	0.656	17.540	17.547	0.091	1.170	0.519	0.000
5	0.250	0.820	34.040	34.053	0.132	2.110	0.388	0.000
6	0.300	0.984	55.160	55.181	0.104	3.400	0.188	0.000
7	0.350	1.148	32.310	32.317	0.114	1.150	0.353	0.000
8	0.400	1.312	36.940	36.948	0.294	1.210	0.796	0.000
9	0.450	1.476	42.330	42.336	1.277	0.900	3.016	0.000
10	0.500	1.640	50.010	50.019	1.252	1.510	2.503	0.000
11	0.550	1.804	72.110	72.125	1.211	2.340	1.679	0.000
12	0.600	1.968	89.390	89.400	1.574	1.530	1.761	0.000
13	0.650	2.133	153.100	153.142	2.701	6.780	1.764	0.000
14	0.700	2.297	203.080	203.071	5.844	-1.500	2.878	0.000
15	0.750	2.461	283.030	283.041	4.899	1.720	1.731	0.000
16	0.800	2.625	497.890	497.893	0.000	0.410	0.000	0.000
17	0.850	2.789	518.520	518.523	0.000	0.450	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221633
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	15:20
CPT File:	13-53075_GP15-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722287.356
Northing / Lat:	4294408.072
Elevation:	138.213
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	10.670	10.719	0.002	7.810	0.019	44.200
2	0.100	0.328	14.140	14.150	0.000	1.610	0.000	56.700
3	0.150	0.492	19.170	19.180	0.087	1.540	0.454	62.100
4	0.200	0.656	38.600	38.620	0.135	3.190	0.350	76.900
5	0.250	0.820	16.030	16.052	0.276	3.560	1.719	83.100
6	0.300	0.984	16.610	16.602	0.352	-1.250	2.120	74.800
7	0.350	1.148	14.540	14.578	0.428	6.040	2.936	93.400
8	0.400	1.312	19.810	19.807	0.590	-0.560	2.979	90.300
9	0.450	1.476	28.500	28.502	0.659	0.390	2.312	94.300
10	0.500	1.640	49.680	49.663	0.581	-2.720	1.170	83.800
11	0.550	1.804	68.800	68.802	0.711	0.350	1.033	110.100
12	0.600	1.968	88.500	88.506	0.848	0.930	0.958	99.400
13	0.650	2.133	106.780	106.780	1.188	0.070	1.113	105.200
14	0.700	2.297	104.720	104.726	1.510	1.020	1.442	98.700
15	0.750	2.461	106.470	106.471	1.940	0.090	1.822	99.600
16	0.800	2.625	101.940	101.937	2.154	-0.440	2.113	115.300
17	0.850	2.789	90.220	90.220	2.252	0.030	2.496	114.600
18	0.900	2.953	83.670	83.661	2.128	-1.380	2.544	116.400
19	0.950	3.117	78.880	78.869	1.881	-1.730	2.385	98.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	64.840	64.833	2.071	-1.130	3.194	89.400
21	1.050	3.445	48.200	48.191	2.021	-1.410	4.194	88.100
22	1.100	3.609	36.760	36.758	1.787	-0.330	4.862	95.500
23	1.150	3.773	35.180	35.184	1.493	0.690	4.243	93.900
24	1.200	3.937	41.140	41.168	1.392	4.480	3.381	106.500
25	1.250	4.101	51.630	51.641	1.315	1.720	2.546	101.200
26	1.300	4.265	44.050	44.000	1.344	-8.030	3.055	111.200
27	1.350	4.429	43.580	43.528	1.235	-8.290	2.837	94.200
28	1.400	4.593	43.620	43.569	1.224	-8.140	2.809	103.500
29	1.450	4.757	41.020	40.988	1.141	-5.080	2.784	93.100
30	1.500	4.921	35.490	35.440	1.016	-8.070	2.867	106.100
31	1.550	5.085	29.910	29.844	0.914	-10.560	3.063	105.300
32	1.600	5.249	24.810	24.740	0.805	-11.290	3.254	105.900
33	1.650	5.413	24.150	24.082	0.765	-10.880	3.177	108.000
34	1.700	5.577	24.870	24.827	0.803	-6.900	3.234	107.600
35	1.750	5.741	25.690	25.662	0.871	-4.510	3.394	100.500
36	1.800	5.905	25.410	25.369	0.901	-6.590	3.552	107.000
37	1.850	6.069	24.880	24.836	0.903	-7.100	3.636	97.300
38	1.900	6.234	24.570	24.521	0.861	-7.790	3.511	94.800
39	1.950	6.398	22.830	22.777	0.797	-8.500	3.499	100.200
40	2.000	6.562	21.140	21.082	0.747	-9.350	3.543	111.500
41	2.050	6.726	20.240	20.178	0.706	-9.910	3.499	81.700
42	2.100	6.890	19.780	19.714	0.680	-10.560	3.449	100.300
43	2.150	7.054	20.780	20.715	0.714	-10.390	3.447	100.000
44	2.200	7.218	21.320	21.257	0.703	-10.040	3.307	95.600
45	2.250	7.382	21.080	21.028	0.730	-8.360	3.472	106.600
46	2.300	7.546	20.560	20.543	0.701	-2.720	3.412	91.300
47	2.350	7.710	18.100	18.095	0.712	-0.750	3.935	97.100
48	2.400	7.874	19.750	19.734	0.673	-2.640	3.410	96.400
49	2.450	8.038	22.220	22.215	0.696	-0.770	3.133	103.200
50	2.500	8.202	25.580	25.557	0.696	-3.660	2.723	116.000
51	2.550	8.366	22.170	22.136	0.694	-5.460	3.135	112.900
52	2.600	8.530	19.260	19.209	0.663	-8.200	3.452	96.600
53	2.650	8.694	17.740	17.689	0.648	-8.090	3.663	104.400
54	2.700	8.858	17.910	17.860	0.597	-7.950	3.343	97.600
55	2.750	9.022	17.290	17.249	0.561	-6.570	3.252	83.900
56	2.800	9.186	16.510	16.470	0.569	-6.360	3.455	93.900
57	2.850	9.350	15.050	15.009	0.538	-6.620	3.585	102.000
58	2.900	9.514	14.560	14.513	0.581	-7.500	4.003	87.000
59	2.950	9.678	13.710	13.668	0.495	-6.710	3.622	108.000
60	3.000	9.842	12.240	12.207	0.461	-5.250	3.776	95.300
61	3.050	10.006	12.600	12.563	0.456	-5.900	3.630	99.200
62	3.100	10.170	11.970	11.935	0.441	-5.540	3.695	92.300
63	3.150	10.335	10.400	10.381	0.392	-3.020	3.776	89.400
64	3.200	10.499	10.700	10.729	0.325	4.600	3.029	97.800
65	3.250	10.663	11.690	11.730	0.342	6.330	2.916	110.600
66	3.300	10.827	11.940	11.944	0.376	0.580	3.148	88.200
67	3.350	10.991	11.160	11.187	0.367	4.360	3.281	112.200
68	3.400	11.155	9.670	9.690	0.341	3.220	3.519	111.400
69	3.450	11.319	11.340	11.383	0.322	6.830	2.829	99.100
70	3.500	11.483	10.040	10.036	0.273	-0.630	2.720	102.300
71	3.550	11.647	9.620	9.608	0.288	-1.990	2.998	97.600
72	3.600	11.811	9.560	9.573	0.264	2.120	2.758	97.900
73	3.650	11.975	12.350	12.350	0.302	-0.060	2.445	96.100
74	3.700	12.139	16.570	16.585	0.349	2.430	2.104	106.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	19.110	19.091	0.432	-3.120	2.263	108.500
76	3.800	12.467	17.930	17.891	0.532	-6.260	2.974	101.200
77	3.850	12.631	16.650	16.584	0.568	-10.590	3.425	97.000
78	3.900	12.795	18.710	18.633	0.568	-12.350	3.048	117.200
79	3.950	12.959	17.540	17.460	0.515	-12.770	2.950	96.900
80	4.000	13.123	17.880	17.803	0.548	-12.280	3.078	106.100
81	4.050	13.287	19.980	19.915	0.575	-10.470	2.887	112.900
82	4.100	13.451	20.830	20.768	0.629	-9.890	3.029	91.900
83	4.150	13.615	20.750	20.684	0.699	-10.500	3.379	105.900
84	4.200	13.779	20.120	20.051	0.658	-11.110	3.282	98.200
85	4.250	13.943	17.770	17.698	0.484	-11.590	2.735	91.000
86	4.300	14.107	13.050	12.960	0.331	-14.470	2.554	98.300
87	4.350	14.271	10.080	9.997	0.193	-13.310	1.931	86.300
88	4.400	14.436	8.510	8.433	0.154	-12.300	1.826	87.400
89	4.450	14.600	8.470	8.427	0.132	-6.830	1.566	85.200
90	4.500	14.764	7.810	7.769	0.112	-6.630	1.442	88.200
91	4.550	14.928	6.990	6.951	0.085	-6.280	1.223	91.100
92	4.600	15.092	6.260	6.223	0.076	-6.000	1.221	89.400
93	4.650	15.256	6.480	6.447	0.074	-5.280	1.148	93.000
94	4.700	15.420	7.370	7.342	0.094	-4.420	1.280	90.300
95	4.750	15.584	7.980	7.955	0.114	-3.980	1.433	82.800
96	4.800	15.748	9.150	9.131	0.168	-3.100	1.840	85.700
97	4.850	15.912	11.320	11.316	0.147	-0.580	1.299	86.000
98	4.900	16.076	19.520	19.492	0.235	-4.420	1.206	80.000
99	4.950	16.240	16.530	16.489	0.392	-6.490	2.377	88.700
100	5.000	16.404	17.770	17.734	0.408	-5.830	2.301	102.600
101	5.050	16.568	13.030	13.000	0.433	-4.780	3.331	89.500
102	5.100	16.732	15.200	15.175	0.437	-4.040	2.880	99.600
103	5.150	16.896	17.850	17.829	0.495	-3.330	2.776	88.900
104	5.200	17.060	18.010	17.989	0.484	-3.290	2.690	97.100
105	5.250	17.224	16.270	16.251	0.434	-3.120	2.671	108.800
106	5.300	17.388	14.910	14.900	0.401	-1.550	2.691	100.300
107	5.350	17.552	13.520	13.514	0.385	-0.990	2.849	92.700
108	5.400	17.716	12.500	12.493	0.353	-1.160	2.826	109.600
109	5.450	17.880	12.160	12.180	0.298	3.250	2.447	110.200
110	5.500	18.044	11.450	11.468	0.267	2.870	2.328	101.800
111	5.550	18.208	10.270	10.289	0.246	3.030	2.391	93.700
112	5.600	18.372	10.480	10.501	0.256	3.400	2.438	89.500
113	5.650	18.537	11.990	12.020	0.278	4.780	2.313	86.500
114	5.700	18.701	11.960	11.997	0.361	5.880	3.009	83.600
115	5.750	18.865	12.800	12.828	0.476	4.560	3.710	83.900
116	5.800	19.029	16.700	16.740	0.469	6.330	2.802	61.800
117	5.850	19.193	28.600	28.672	0.777	11.550	2.710	47.800
118	5.900	19.357	42.800	42.834	0.931	5.430	2.174	48.100
119	5.950	19.521	43.420	43.573	0.986	24.470	2.263	62.300
120	6.000	19.685	41.200	41.249	0.816	7.860	1.978	55.400
121	6.050	19.849	25.900	25.900	0.532	-0.040	2.054	55.000
122	6.100	20.013	10.630	10.646	0.374	2.510	3.513	60.400
123	6.150	20.177	5.730	5.729	0.567	-0.180	9.897	60.600
124	6.200	20.341	14.380	14.414	1.193	5.480	8.277	199.000
125	6.250	20.505	49.490	49.551	1.132	9.840	2.284	67.500
126	6.300	20.669	21.380	21.408	1.021	4.450	4.769	83.500
127	6.350	20.833	16.130	16.136	0.403	0.950	2.498	67.000
128	6.400	20.997	12.190	12.190	0.212	-0.020	1.739	72.800
129	6.450	21.161	9.940	9.938	0.172	-0.300	1.731	70.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	7.740	7.706	0.141	-5.400	1.830	83.300
131	6.550	21.489	8.010	7.969	0.088	-6.580	1.104	86.400
132	6.600	21.653	7.630	7.580	0.064	-7.940	0.844	77.900
133	6.650	21.817	7.420	7.368	0.080	-8.400	1.086	77.500
134	6.700	21.981	8.060	8.005	0.065	-8.820	0.812	79.900
135	6.750	22.145	11.950	11.901	0.086	-7.910	0.723	70.300
136	6.800	22.309	11.530	11.483	0.139	-7.560	1.211	78.300
137	6.850	22.473	10.510	10.471	0.164	-6.300	1.566	68.800
138	6.900	22.638	9.590	9.558	0.155	-5.110	1.622	71.400
139	6.950	22.802	7.650	7.615	0.150	-5.610	1.970	61.700
140	7.000	22.966	6.510	6.475	0.114	-5.620	1.761	56.100
141	7.050	23.130	15.990	15.966	0.173	-3.910	1.084	59.200
142	7.100	23.294	10.990	10.970	0.128	-3.210	1.167	50.600
143	7.150	23.458	1.760	1.699	0.102	-9.810	6.004	57.300
144	7.200	23.622	1.700	1.698	0.046	-0.300	2.709	60.000
145	7.250	23.786	3.170	3.171	0.067	0.120	2.113	61.100
146	7.300	23.950	17.440	17.450	0.133	1.680	0.762	56.700
147	7.350	24.114	26.300	26.307	0.167	1.160	0.635	63.600
148	7.400	24.278	36.490	36.507	0.226	2.760	0.619	66.900
149	7.450	24.442	45.980	45.995	0.296	2.410	0.644	68.400
150	7.500	24.606	51.380	51.394	0.423	2.300	0.823	73.000
151	7.550	24.770	54.960	54.977	0.534	2.720	0.971	76.000
152	7.600	24.934	55.470	55.488	0.621	2.900	1.119	76.400
153	7.650	25.098	51.600	51.618	0.689	2.890	1.335	71.000
154	7.700	25.262	44.830	44.847	0.697	2.760	1.554	75.000
155	7.750	25.426	36.050	36.065	0.655	2.390	1.816	74.700
156	7.800	25.590	27.430	27.445	0.588	2.450	2.142	74.800
157	7.850	25.754	24.120	24.140	0.490	3.270	2.030	78.200
158	7.900	25.918	27.950	27.977	0.383	4.400	1.369	80.500
159	7.950	26.082	39.980	39.989	0.344	1.420	0.860	79.500
160	8.000	26.246	43.880	43.871	0.373	-1.480	0.850	78.000
161	8.050	26.410	49.110	49.097	0.341	-2.160	0.695	75.800
162	8.100	26.574	52.740	52.717	0.377	-3.650	0.715	74.700
163	8.150	26.739	51.750	51.716	0.451	-5.520	0.872	81.900
164	8.200	26.903	49.350	49.316	0.534	-5.460	1.083	76.300
165	8.250	27.067	47.870	47.841	0.539	-4.700	1.127	80.200
166	8.300	27.231	47.900	47.874	0.528	-4.120	1.103	68.700
167	8.350	27.395	52.180	52.151	0.368	-4.620	0.706	74.100
168	8.400	27.559	68.160	68.127	0.398	-5.310	0.584	72.600
169	8.450	27.723	87.710	87.688	0.569	-3.550	0.649	52.800
170	8.500	27.887	80.020	79.979	0.869	-6.540	1.087	53.400
171	8.550	28.051	81.460	81.429	0.885	-5.020	1.087	55.400
172	8.600	28.215	81.480	81.467	0.998	-2.110	1.225	48.300
173	8.650	28.379	112.760	112.780	0.980	3.200	0.869	44.800
174	8.700	28.543	135.610	135.626	1.053	2.500	0.776	37.900
175	8.750	28.707	152.270	152.295	1.188	3.970	0.780	40.300
176	8.800	28.871	163.210	163.241	1.275	4.940	0.781	41.500
177	8.850	29.035	171.150	171.183	1.430	5.290	0.835	33.200
178	8.900	29.199	173.050	173.085	1.521	5.670	0.879	47.900
179	8.950	29.363	177.200	177.239	1.526	6.200	0.861	45.400
180	9.000	29.527	193.500	193.542	1.519	6.800	0.785	46.000
181	9.050	29.691	206.080	206.128	1.615	7.620	0.783	43.900
182	9.100	29.855	198.560	198.605	1.696	7.240	0.854	41.700
183	9.150	30.019	200.100	200.150	1.722	7.990	0.860	38.800
184	9.200	30.183	219.860	219.914	1.763	8.680	0.802	57.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	221.070	221.126	1.833	8.900	0.829	42.900
186	9.300	30.511	219.850	219.906	1.913	8.970	0.870	45.200
187	9.350	30.675	220.550	220.605	1.521	8.880	0.689	40.500
188	9.400	30.840	217.880	217.939	1.757	9.470	0.806	45.900
189	9.450	31.004	205.070	205.124	2.071	8.720	1.010	48.100
190	9.500	31.168	202.650	202.711	2.172	9.810	1.071	47.500
191	9.550	31.332	266.340	266.412	2.253	11.580	0.846	46.900
192	9.600	31.496	281.970	282.034	2.342	10.330	0.830	49.500
193	9.650	31.660	276.390	276.432	2.570	6.730	0.930	48.000
194	9.700	31.824	259.270	259.299	2.608	4.600	1.006	47.200
195	9.750	31.988	226.620	226.644	2.566	3.840	1.132	44.200
196	9.800	32.152	195.240	195.276	2.459	5.760	1.259	42.800
197	9.850	32.316	163.880	163.927	2.222	7.570	1.355	57.700
198	9.900	32.480	141.690	141.740	1.912	8.050	1.349	56.300
199	9.950	32.644	129.900	129.954	1.567	8.660	1.206	53.500
200	10.000	32.808	126.250	126.307	1.341	9.080	1.062	53.900
201	10.050	32.972	128.680	128.736	1.202	9.010	0.934	52.700
202	10.100	33.136	134.720	134.779	1.115	9.520	0.827	0.000
203	10.150	33.300	142.870	142.932	1.135	9.990	0.794	0.000
204	10.200	33.464	154.550	154.614	1.154	10.190	0.746	0.000
205	10.250	33.628	154.880	154.942	1.241	9.930	0.801	0.000
206	10.300	33.792	131.440	131.495	1.280	8.790	0.973	0.000
207	10.350	33.956	101.360	101.415	1.083	8.750	1.068	0.000
208	10.400	34.120	85.380	85.433	0.989	8.540	1.158	0.000
209	10.450	34.284	77.480	77.541	0.886	9.760	1.143	0.000
210	10.500	34.448	79.320	79.385	0.877	10.390	1.105	0.000
211	10.550	34.612	84.450	84.459	0.783	1.500	0.927	0.000
212	10.600	34.776	93.810	93.776	0.790	-5.490	0.842	0.000
213	10.650	34.941	113.250	113.215	1.079	-5.680	0.953	0.000
214	10.700	35.105	149.320	149.275	1.490	-7.210	0.998	0.000
215	10.750	35.269	208.680	208.648	1.652	-5.090	0.792	0.000
216	10.800	35.433	392.040	392.070	0.000	4.830	0.000	0.000
217	10.850	35.597	412.340	412.383	0.000	6.850	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221635
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	08:14
CPT File:	13-53075_GP15-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722291.096
Northing / Lat:	4294382.161
Elevation:	145.376
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	18.870	18.930	0.004	9.690	0.021	28.200
2	0.100	0.328	28.210	28.230	0.006	3.220	0.021	36.500
3	0.150	0.492	55.430	55.455	0.108	3.980	0.195	38.000
4	0.200	0.656	74.150	74.168	0.244	2.900	0.329	45.300
5	0.250	0.820	75.270	75.289	0.664	3.080	0.882	51.700
6	0.300	0.984	80.300	80.316	1.068	2.500	1.330	52.600
7	0.350	1.148	109.930	109.995	1.070	10.440	0.973	45.200
8	0.400	1.312	327.390	327.390	0.747	0.020	0.228	47.100
9	0.450	1.476	289.840	289.842	2.281	0.280	0.787	47.200
10	0.500	1.640	240.760	240.826	3.657	10.650	1.519	53.700
11	0.550	1.804	267.660	267.676	0.861	2.510	0.322	46.000
12	0.600	1.968	204.790	204.795	1.378	0.840	0.673	47.100
13	0.650	2.133	139.180	139.182	1.291	0.380	0.928	48.200
14	0.700	2.297	149.350	149.356	1.494	0.960	1.000	47.700
15	0.750	2.461	41.270	41.273	1.533	0.470	3.714	0.000
16	0.800	2.625	28.020	28.020	0.910	0.020	3.248	0.000
17	0.850	2.789	18.330	18.343	0.683	2.100	3.723	0.000
18	0.900	2.953	16.520	16.513	0.602	-1.140	3.646	0.000
19	0.950	3.117	17.470	17.454	0.562	-2.520	3.220	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	14.340	14.285	0.498	-8.820	3.486	0.000
21	1.050	3.445	11.350	11.330	0.376	-3.260	3.319	0.000
22	1.100	3.609	10.380	10.377	0.229	-0.470	2.207	0.000
23	1.150	3.773	9.590	9.577	0.210	-2.010	2.193	0.000
24	1.200	3.937	9.680	9.692	0.196	1.880	2.022	0.000
25	1.250	4.101	8.740	8.782	0.200	6.680	2.277	0.000
26	1.300	4.265	8.870	8.911	0.309	6.640	3.467	0.000
27	1.350	4.429	10.110	10.149	0.399	6.180	3.932	0.000
28	1.400	4.593	351.810	351.815	0.265	0.760	0.075	0.000
29	1.450	4.757	412.980	412.993	0.000	2.130	0.000	0.000
30	1.500	4.921	524.630	524.657	0.000	4.380	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221636
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	07:25
CPT File:	13-53075_GP15-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722297.733
Northing / Lat:	4294373.310
Elevation:	144.355
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	18.910	18.919	0.090	1.390	0.476	24.800
2	0.100	0.328	66.950	66.965	0.332	2.330	0.496	27.200
3	0.150	0.492	124.770	124.789	0.256	3.020	0.205	37.400
4	0.200	0.656	97.690	97.710	0.399	3.130	0.408	42.400
5	0.250	0.820	70.820	70.840	0.583	3.280	0.823	65.100
6	0.300	0.984	55.330	55.352	0.764	3.530	1.380	55.700
7	0.350	1.148	46.280	46.299	0.888	3.040	1.918	54.600
8	0.400	1.312	24.710	24.730	0.778	3.280	3.146	66.600
9	0.450	1.476	23.200	23.230	0.823	4.800	3.543	62.900
10	0.500	1.640	29.540	29.572	0.760	5.070	2.570	75.500
11	0.550	1.804	60.030	60.061	0.790	5.000	1.315	91.200
12	0.600	1.968	126.300	126.331	1.551	4.910	1.228	89.800
13	0.650	2.133	170.380	170.414	1.799	5.470	1.056	84.800
14	0.700	2.297	142.760	142.791	1.942	4.970	1.360	86.600
15	0.750	2.461	125.400	125.430	2.030	4.750	1.618	94.400
16	0.800	2.625	113.120	113.150	1.684	4.850	1.488	85.300
17	0.850	2.789	106.160	106.191	1.338	4.900	1.260	94.800
18	0.900	2.953	90.830	90.859	2.151	4.620	2.367	107.300
19	0.950	3.117	82.880	82.907	2.153	4.400	2.597	91.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	65.360	65.395	2.312	5.620	3.535	93.400
21	1.050	3.445	51.370	51.404	1.654	5.380	3.218	89.600
22	1.100	3.609	40.380	40.412	1.097	5.170	2.715	94.000
23	1.150	3.773	43.800	43.831	1.038	4.900	2.368	108.200
24	1.200	3.937	33.940	33.970	1.333	4.880	3.924	94.100
25	1.250	4.101	29.250	29.279	1.681	4.690	5.741	82.800
26	1.300	4.265	34.490	34.514	1.686	3.780	4.885	81.700
27	1.350	4.429	57.900	57.932	1.430	5.090	2.468	88.100
28	1.400	4.593	24.110	24.151	0.973	6.530	4.029	79.300
29	1.450	4.757	19.800	19.837	0.520	5.960	2.621	87.300
30	1.500	4.921	16.460	16.493	0.500	5.330	3.032	84.100
31	1.550	5.085	14.100	14.130	0.535	4.790	3.786	74.700
32	1.600	5.249	17.150	17.178	0.490	4.490	2.852	75.400
33	1.650	5.413	28.530	28.546	0.401	2.580	1.405	76.900
34	1.700	5.577	25.670	25.690	0.307	3.200	1.195	74.500
35	1.750	5.741	23.520	23.536	0.105	2.500	0.446	85.300
36	1.800	5.905	22.450	22.467	0.104	2.690	0.463	71.700
37	1.850	6.069	31.940	31.953	0.541	2.120	1.693	67.400
38	1.900	6.234	42.530	42.545	0.453	2.330	1.065	70.000
39	1.950	6.398	26.200	26.210	0.578	1.570	2.205	74.900
40	2.000	6.562	15.290	15.300	0.518	1.530	3.386	75.200
41	2.050	6.726	12.410	12.421	0.399	1.740	3.212	88.700
42	2.100	6.890	11.350	11.366	0.338	2.500	2.974	91.500
43	2.150	7.054	10.980	10.995	0.337	2.370	3.065	88.700
44	2.200	7.218	20.160	20.175	0.519	2.480	2.572	88.300
45	2.250	7.382	34.060	34.076	0.768	2.570	2.254	96.400
46	2.300	7.546	38.860	38.875	0.901	2.430	2.318	102.700
47	2.350	7.710	41.880	41.894	1.228	2.210	2.931	92.900
48	2.400	7.874	38.290	38.302	0.985	1.880	2.572	105.900
49	2.450	8.038	45.860	45.872	0.858	2.000	1.870	82.400
50	2.500	8.202	34.950	34.964	0.818	2.260	2.340	90.000
51	2.550	8.366	26.210	26.215	0.742	0.770	2.830	72.800
52	2.600	8.530	26.560	26.559	0.592	-0.180	2.229	58.900
53	2.650	8.694	24.360	24.362	0.594	0.330	2.438	43.700
54	2.700	8.858	15.830	15.829	0.306	-0.140	1.933	30.100
55	2.750	9.022	16.870	16.863	0.362	-1.190	2.147	32.800
56	2.800	9.186	20.930	20.931	0.278	0.140	1.328	19.500
57	2.850	9.350	9.590	9.584	0.256	-0.960	2.671	21.800
58	2.900	9.514	21.670	21.666	0.420	-0.680	1.939	16.200
59	2.950	9.678	17.920	17.916	0.290	-0.680	1.619	13.000
60	3.000	9.842	12.300	12.293	0.257	-1.160	2.091	17.800
61	3.050	10.006	20.280	20.276	0.372	-0.590	1.835	22.400
62	3.100	10.170	18.870	18.866	0.234	-0.610	1.240	17.800
63	3.150	10.335	15.740	15.734	0.344	-1.000	2.186	16.800
64	3.200	10.499	37.930	37.930	0.880	0.020	2.320	20.300
65	3.250	10.663	64.630	64.630	1.102	0.080	1.705	19.400
66	3.300	10.827	31.380	31.415	1.255	5.560	3.995	18.900
67	3.350	10.991	18.040	18.070	0.986	4.860	5.456	24.600
68	3.400	11.155	21.280	21.311	0.600	5.030	2.815	34.500
69	3.450	11.319	24.930	24.960	0.462	4.870	1.851	52.200
70	3.500	11.483	11.230	11.262	0.561	5.060	4.982	52.200
71	3.550	11.647	11.760	11.789	0.455	4.710	3.859	39.300
72	3.600	11.811	18.740	18.763	0.667	3.740	3.555	38.400
73	3.650	11.975	50.280	50.317	0.700	5.910	1.391	23.800
74	3.700	12.139	24.070	24.110	1.289	6.460	5.346	30.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	49.160	49.199	0.988	6.320	2.008	25.300
76	3.800	12.467	46.580	46.681	0.902	16.220	1.932	20.800
77	3.850	12.631	65.220	65.277	0.844	9.140	1.293	21.500
78	3.900	12.795	63.030	63.086	0.837	8.970	1.327	20.100
79	3.950	12.959	82.650	82.652	1.031	0.360	1.247	21.400
80	4.000	13.123	89.910	89.920	1.193	1.620	1.327	28.800
81	4.050	13.287	73.060	73.071	1.383	1.840	1.893	34.000
82	4.100	13.451	58.310	58.324	1.118	2.210	1.917	46.300
83	4.150	13.615	62.060	62.073	1.145	2.120	1.845	43.400
84	4.200	13.779	63.210	63.231	1.216	3.330	1.923	37.100
85	4.250	13.943	19.830	19.850	1.134	3.160	5.713	35.800
86	4.300	14.107	24.830	24.848	0.894	2.930	3.598	39.800
87	4.350	14.271	34.610	34.631	0.530	3.440	1.530	34.800
88	4.400	14.436	12.920	12.945	0.528	3.970	4.079	29.700
89	4.450	14.600	19.720	19.761	0.612	6.520	3.097	28.800
90	4.500	14.764	32.860	32.900	0.704	6.430	2.140	20.900
91	4.550	14.928	39.000	39.040	1.183	6.350	3.030	15.500
92	4.600	15.092	49.210	49.258	1.207	7.610	2.450	18.700
93	4.650	15.256	5.290	5.324	0.917	5.500	17.223	14.100
94	4.700	15.420	1.810	1.829	0.342	3.120	18.694	12.500
95	4.750	15.584	1.730	1.746	0.024	2.620	1.374	14.100
96	4.800	15.748	3.420	3.433	0.147	2.050	4.282	11.500
97	4.850	15.912	25.140	25.163	0.213	3.630	0.846	13.900
98	4.900	16.076	17.660	17.685	0.444	3.960	2.511	12.000
99	4.950	16.240	24.410	24.432	0.494	3.560	2.022	17.000
100	5.000	16.404	17.590	17.610	0.545	3.280	3.095	14.200
101	5.050	16.568	21.400	21.429	0.608	4.580	2.837	11.700
102	5.100	16.732	17.250	17.285	0.811	5.540	4.692	9.500
103	5.150	16.896	16.290	16.351	1.112	9.760	6.801	13.400
104	5.200	17.060	33.040	33.114	0.936	11.830	2.827	17.900
105	5.250	17.224	19.020	19.093	0.988	11.690	5.175	21.000
106	5.300	17.388	8.950	9.007	0.504	9.080	5.596	28.500
107	5.350	17.552	29.100	29.137	0.581	5.900	1.994	85.800
108	5.400	17.716	69.750	69.788	1.252	6.040	1.794	67.600
109	5.450	17.880	120.800	120.825	1.346	4.020	1.114	70.300
110	5.500	18.044	32.350	32.414	1.119	10.250	3.452	79.000
111	5.550	18.208	19.190	19.293	0.748	16.420	3.877	81.600
112	5.600	18.372	30.050	30.168	0.589	18.890	1.952	90.000
113	5.650	18.537	42.720	42.800	0.546	12.880	1.276	74.900
114	5.700	18.701	34.920	34.984	0.467	10.240	1.335	69.700
115	5.750	18.865	21.820	21.873	0.472	8.430	2.158	77.300
116	5.800	19.029	15.420	15.460	0.381	6.420	2.464	41.700
117	5.850	19.193	19.150	19.192	0.421	6.670	2.194	35.200
118	5.900	19.357	32.700	32.744	0.570	7.040	1.741	32.100
119	5.950	19.521	58.880	58.917	0.589	5.940	1.000	30.200
120	6.000	19.685	107.550	107.584	0.815	5.370	0.758	21.100
121	6.050	19.849	150.750	150.802	2.015	8.340	1.336	21.200
122	6.100	20.013	179.970	180.017	2.500	7.470	1.389	15.600
123	6.150	20.177	178.600	178.623	1.654	3.670	0.926	14.700
124	6.200	20.341	196.790	196.817	1.967	4.370	0.999	22.700
125	6.250	20.505	62.570	62.586	1.800	2.580	2.876	16.100
126	6.300	20.669	47.800	47.851	1.533	8.190	3.204	17.900
127	6.350	20.833	33.770	33.811	1.106	6.520	3.271	17.100
128	6.400	20.997	18.000	18.053	0.741	8.420	4.105	14.100
129	6.450	21.161	29.140	29.164	0.948	3.850	3.251	17.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	38.440	38.464	1.214	3.830	3.156	15.300
131	6.550	21.489	28.890	28.928	1.190	6.080	4.114	12.600
132	6.600	21.653	17.150	17.173	0.870	3.710	5.066	13.700
133	6.650	21.817	11.840	11.856	0.510	2.540	4.302	13.800
134	6.700	21.981	6.420	6.434	0.471	2.190	7.321	12.200
135	6.750	22.145	10.920	10.966	0.542	7.390	4.942	14.100
136	6.800	22.309	18.990	19.053	0.625	10.100	3.280	11.900
137	6.850	22.473	13.720	13.798	0.681	12.540	4.935	16.500
138	6.900	22.638	19.300	19.364	0.607	10.320	3.135	20.900
139	6.950	22.802	22.940	22.984	0.541	7.010	2.354	18.400
140	7.000	22.966	29.130	29.160	0.519	4.810	1.780	20.900
141	7.050	23.130	17.110	17.128	0.353	2.930	2.061	21.700
142	7.100	23.294	22.840	22.864	0.362	3.860	1.583	29.300
143	7.150	23.458	17.950	17.972	0.332	3.560	1.847	27.400
144	7.200	23.622	21.030	21.047	0.388	2.750	1.843	31.300
145	7.250	23.786	16.120	16.140	0.372	3.170	2.305	47.000
146	7.300	23.950	13.910	13.940	0.384	4.810	2.755	56.800
147	7.350	24.114	22.750	22.774	0.316	3.780	1.388	60.700
148	7.400	24.278	12.210	12.233	0.221	3.670	1.807	74.000
149	7.450	24.442	12.730	12.760	0.195	4.840	1.528	67.600
150	7.500	24.606	14.780	14.821	0.158	6.560	1.066	75.900
151	7.550	24.770	16.930	16.974	0.143	7.010	0.842	84.500
152	7.600	24.934	28.750	28.796	0.254	7.310	0.882	71.900
153	7.650	25.098	24.560	24.566	0.329	0.960	1.339	79.000
154	7.700	25.262	17.490	17.483	0.295	-1.080	1.687	88.200
155	7.750	25.426	15.730	15.719	0.263	-1.740	1.673	75.400
156	7.800	25.590	22.090	22.079	0.257	-1.790	1.164	76.900
157	7.850	25.754	23.620	23.604	0.235	-2.600	0.996	81.900
158	7.900	25.918	20.740	20.719	0.352	-3.290	1.699	73.500
159	7.950	26.082	32.270	32.242	0.217	-4.490	0.673	68.900
160	8.000	26.246	23.560	23.523	0.298	-5.880	1.267	68.100
161	8.050	26.410	13.270	13.239	0.441	-5.020	3.331	60.300
162	8.100	26.574	14.890	14.860	0.444	-4.730	2.988	58.900
163	8.150	26.739	12.050	12.042	0.443	-1.220	3.679	52.300
164	8.200	26.903	14.430	14.448	0.445	2.930	3.080	47.700
165	8.250	27.067	16.370	16.390	0.436	3.140	2.660	38.800
166	8.300	27.231	9.860	9.895	0.370	5.580	3.739	36.100
167	8.350	27.395	17.580	17.601	0.284	3.300	1.614	27.400
168	8.400	27.559	19.170	19.183	0.260	2.070	1.355	20.200
169	8.450	27.723	12.120	12.133	0.328	2.020	2.703	26.900
170	8.500	27.887	13.180	13.189	0.842	1.370	6.384	19.600
171	8.550	28.051	33.730	33.750	0.534	3.130	1.582	16.700
172	8.600	28.215	7.390	7.398	0.604	1.320	8.164	22.400
173	8.650	28.379	18.940	18.949	0.499	1.380	2.633	20.200
174	8.700	28.543	21.780	21.791	0.452	1.770	2.074	16.700
175	8.750	28.707	22.710	22.740	0.357	4.820	1.570	19.000
176	8.800	28.871	15.170	15.186	0.398	2.520	2.621	21.100
177	8.850	29.035	29.170	29.189	0.583	3.050	1.997	25.700
178	8.900	29.199	52.980	53.045	0.946	10.470	1.783	35.500
179	8.950	29.363	45.170	45.200	1.142	4.840	2.527	33.300
180	9.000	29.527	42.480	42.519	1.387	6.170	3.262	41.300
181	9.050	29.691	49.120	49.174	1.202	8.610	2.444	48.900
182	9.100	29.855	35.320	35.336	1.247	2.610	3.529	66.800
183	9.150	30.019	25.990	26.010	1.111	3.140	4.271	98.300
184	9.200	30.183	38.970	39.014	0.956	7.080	2.450	121.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	26.100	26.157	0.784	9.170	2.997	138.400
186	9.300	30.511	29.310	29.365	0.934	8.760	3.181	163.800
187	9.350	30.675	42.170	42.220	1.155	8.080	2.736	144.200
188	9.400	30.840	45.620	45.663	1.469	6.830	3.217	115.700
189	9.450	31.004	56.890	56.907	1.713	2.700	3.010	89.800
190	9.500	31.168	39.450	39.469	1.236	2.990	3.132	91.300
191	9.550	31.332	83.340	83.355	1.229	2.470	1.474	71.400
192	9.600	31.496	40.520	40.544	1.351	3.900	3.332	57.600
193	9.650	31.660	21.050	21.104	1.135	8.590	5.378	58.000
194	9.700	31.824	30.310	30.370	0.651	9.590	2.144	44.300
195	9.750	31.988	72.480	72.531	0.817	8.090	1.126	27.600
196	9.800	32.152	119.800	119.846	1.373	7.350	1.146	25.100
197	9.850	32.316	80.650	80.698	2.227	7.610	2.760	24.900
198	9.900	32.480	110.140	110.172	2.300	5.060	2.088	17.900
199	9.950	32.644	169.390	169.420	2.393	4.750	1.412	18.000
200	10.000	32.808	92.820	92.848	2.404	4.410	2.589	14.600
201	10.050	32.972	113.440	113.468	1.577	4.500	1.390	18.500
202	10.100	33.136	82.870	82.895	1.177	4.070	1.420	21.800
203	10.150	33.300	24.210	24.255	0.810	7.170	3.340	18.900
204	10.200	33.464	21.000	21.044	0.607	7.010	2.884	20.500
205	10.250	33.628	36.810	36.861	0.687	8.140	1.864	0.000
206	10.300	33.792	43.010	43.049	0.970	6.320	2.253	0.000
207	10.350	33.956	40.560	40.592	1.152	5.150	2.838	0.000
208	10.400	34.120	34.450	34.474	1.234	3.850	3.580	0.000
209	10.450	34.284	30.380	30.414	1.130	5.380	3.715	0.000
210	10.500	34.448	39.130	39.167	1.136	5.910	2.900	0.000
211	10.550	34.612	23.130	23.172	0.812	6.690	3.504	0.000
212	10.600	34.776	12.560	12.621	0.696	9.730	5.515	0.000
213	10.650	34.941	13.200	13.291	0.410	14.600	3.085	0.000
214	10.700	35.105	18.940	18.982	0.459	6.720	2.418	0.000
215	10.750	35.269	29.370	29.414	0.671	6.990	2.281	0.000
216	10.800	35.433	41.910	41.951	1.058	6.510	2.522	0.000
217	10.850	35.597	23.570	23.609	1.083	6.240	4.587	0.000
218	10.900	35.761	333.890	333.954	1.123	10.180	0.336	0.000
219	10.950	35.925	364.480	364.543	0.000	10.080	0.000	0.000
220	11.000	36.089	399.880	399.943	0.000	10.170	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221638
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-4
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	16:03
CPT File:	13-53075_GP15-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722305.237
Northing / Lat:	4294362.014
Elevation:	144.081
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	12.550	12.582	0.000	5.060	0.000	23.800
2	0.100	0.328	18.960	18.971	0.002	1.740	0.011	30.900
3	0.150	0.492	29.080	29.100	0.003	3.130	0.010	32.600
4	0.200	0.656	46.650	46.679	0.024	4.600	0.051	28.900
5	0.250	0.820	51.070	51.084	0.041	2.290	0.080	29.300
6	0.300	0.984	48.420	48.421	0.113	0.190	0.233	33.300
7	0.350	1.148	48.440	48.478	0.294	6.140	0.606	42.400
8	0.400	1.312	39.290	39.445	0.222	24.870	0.563	45.400
9	0.450	1.476	43.770	43.791	0.295	3.370	0.674	51.400
10	0.500	1.640	24.480	24.484	0.384	0.570	1.568	65.800
11	0.550	1.804	20.890	20.952	0.476	9.890	2.272	68.000
12	0.600	1.968	23.230	23.205	0.610	-4.050	2.629	75.500
13	0.650	2.133	25.130	25.119	0.663	-1.770	2.639	74.400
14	0.700	2.297	28.230	28.182	0.678	-7.710	2.406	89.300
15	0.750	2.461	29.700	29.642	0.732	-9.290	2.469	79.100
16	0.800	2.625	35.690	35.620	0.485	-11.280	1.362	87.600
17	0.850	2.789	4.290	4.267	0.278	-3.630	6.515	87.700
18	0.900	2.953	1.730	1.733	0.079	0.430	4.559	81.800
19	0.950	3.117	1.420	1.424	0.013	0.690	0.913	91.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	1.820	1.823	0.014	0.480	0.768	78.000
21	1.050	3.445	1.730	1.733	0.012	0.450	0.693	77.700
22	1.100	3.609	1.550	1.553	0.013	0.490	0.837	73.400
23	1.150	3.773	4.920	4.924	0.014	0.570	0.284	71.600
24	1.200	3.937	5.000	5.003	0.053	0.490	1.059	73.000
25	1.250	4.101	7.390	7.393	0.323	0.510	4.369	70.800
26	1.300	4.265	17.100	17.101	0.355	0.220	2.076	61.200
27	1.350	4.429	73.000	73.005	2.204	0.760	3.019	59.900
28	1.400	4.593	34.920	34.920	1.941	-0.070	5.558	60.600
29	1.450	4.757	33.490	33.491	1.454	0.110	4.342	51.300
30	1.500	4.921	31.580	31.582	0.234	0.260	0.741	59.100
31	1.550	5.085	41.720	41.713	0.281	-1.160	0.674	46.600
32	1.600	5.249	60.150	60.150	0.461	0.020	0.766	57.200
33	1.650	5.413	50.940	50.921	1.052	-3.090	2.066	54.000
34	1.700	5.577	50.130	50.136	2.203	1.040	4.394	55.800
35	1.750	5.741	50.360	50.360	2.706	0.060	5.373	65.900
36	1.800	5.905	93.830	93.832	1.936	0.300	2.063	78.300
37	1.850	6.069	15.470	15.464	1.734	-0.910	11.213	74.700
38	1.900	6.234	22.020	22.025	1.610	0.800	7.310	88.100
39	1.950	6.398	11.990	11.994	0.374	0.650	3.118	76.700
40	2.000	6.562	8.840	8.848	0.316	1.270	3.571	83.800
41	2.050	6.726	9.720	9.734	0.330	2.260	3.390	82.300
42	2.100	6.890	22.490	22.443	0.296	-7.470	1.319	82.800
43	2.150	7.054	31.330	31.265	0.320	-10.390	1.024	84.000
44	2.200	7.218	34.120	34.098	0.339	-3.590	0.994	82.700
45	2.250	7.382	34.860	34.851	0.410	-1.440	1.176	93.800
46	2.300	7.546	33.980	33.971	0.380	-1.410	1.119	79.200
47	2.350	7.710	33.340	33.323	0.409	-2.730	1.227	85.000
48	2.400	7.874	32.190	32.188	0.434	-0.260	1.348	91.600
49	2.450	8.038	25.120	25.130	0.449	1.620	1.787	82.700
50	2.500	8.202	24.360	24.398	0.486	6.090	1.992	97.300
51	2.550	8.366	27.810	27.846	0.504	5.790	1.810	96.300
52	2.600	8.530	31.540	31.536	0.434	-0.680	1.376	104.200
53	2.650	8.694	25.400	25.379	0.406	-3.390	1.600	103.400
54	2.700	8.858	15.990	15.959	0.374	-4.900	2.343	96.000
55	2.750	9.022	12.500	12.474	0.359	-4.200	2.878	87.600
56	2.800	9.186	9.760	9.751	0.334	-1.510	3.425	75.700
57	2.850	9.350	13.970	13.941	0.335	-4.590	2.403	59.800
58	2.900	9.514	12.410	12.408	0.382	-0.350	3.079	50.400
59	2.950	9.678	17.650	17.688	0.672	6.120	3.799	39.500
60	3.000	9.842	40.900	40.990	0.709	14.480	1.730	33.900
61	3.050	10.006	20.770	20.794	0.640	3.850	3.078	28.600
62	3.100	10.170	8.430	8.454	0.627	3.870	7.416	21.900
63	3.150	10.335	6.420	6.434	0.427	2.320	6.636	20.400
64	3.200	10.499	43.270	43.265	0.704	-0.780	1.627	18.800
65	3.250	10.663	50.460	50.485	0.986	4.020	1.953	19.900
66	3.300	10.827	39.130	39.182	1.180	8.260	3.012	21.200
67	3.350	10.991	57.160	57.141	1.226	-3.080	2.146	21.000
68	3.400	11.155	98.670	98.677	1.386	1.080	1.405	24.900
69	3.450	11.319	37.140	37.239	1.245	15.920	3.343	26.400
70	3.500	11.483	43.270	43.306	0.971	5.760	2.242	27.800
71	3.550	11.647	80.260	80.256	0.672	-0.650	0.837	27.200
72	3.600	11.811	50.800	50.798	0.827	-0.370	1.628	43.900
73	3.650	11.975	34.960	34.944	1.036	-2.510	2.965	45.300
74	3.700	12.139	19.460	19.485	0.741	3.980	3.803	44.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	32.710	32.739	0.261	4.700	0.797	28.900
76	3.800	12.467	97.600	97.607	0.737	1.090	0.755	33.200
77	3.850	12.631	89.060	89.067	0.914	1.070	1.026	24.400
78	3.900	12.795	58.340	58.348	0.807	1.210	1.383	22.800
79	3.950	12.959	13.080	13.054	0.712	-4.100	5.454	23.200
80	4.000	13.123	12.230	12.229	0.273	-0.240	2.232	20.300
81	4.050	13.287	14.460	14.457	0.200	-0.440	1.383	28.700
82	4.100	13.451	8.380	8.385	0.275	0.860	3.280	30.100
83	4.150	13.615	14.250	14.247	0.409	-0.560	2.871	34.400
84	4.200	13.779	19.230	19.224	0.403	-0.990	2.096	39.500
85	4.250	13.943	18.130	18.142	0.403	1.880	2.221	39.500
86	4.300	14.107	14.430	14.360	0.406	-11.290	2.827	27.800
87	4.350	14.271	15.810	15.795	0.598	-2.480	3.786	19.800
88	4.400	14.436	11.800	11.881	0.612	13.000	5.151	10.200
89	4.450	14.600	27.440	27.469	0.460	4.690	1.675	11.600
90	4.500	14.764	34.860	34.858	0.405	-0.330	1.162	10.900
91	4.550	14.928	26.990	26.994	0.512	0.630	1.897	10.000
92	4.600	15.092	31.360	31.350	0.362	-1.600	1.155	6.100
93	4.650	15.256	1.900	1.899	0.261	-0.190	13.745	7.400
94	4.700	15.420	8.790	8.791	0.301	0.110	3.424	5.300
95	4.750	15.584	30.960	30.974	0.316	2.180	1.020	7.200
96	4.800	15.748	26.920	26.946	0.639	4.110	2.371	10.300
97	4.850	15.912	60.990	60.988	0.905	-0.350	1.484	11.200
98	4.900	16.076	19.590	19.592	0.695	0.370	3.547	8.900
99	4.950	16.240	2.910	2.914	0.662	0.570	22.721	11.800
100	5.000	16.404	4.090	4.087	0.187	-0.460	4.575	16.200
101	5.050	16.568	9.760	9.760	0.155	-0.070	1.588	12.300
102	5.100	16.732	16.190	16.193	0.556	0.440	3.434	13.600
103	5.150	16.896	43.260	43.278	0.866	2.910	2.001	14.200
104	5.200	17.060	24.310	24.296	1.133	-2.230	4.663	13.200
105	5.250	17.224	27.880	27.868	1.343	-1.860	4.819	13.400
106	5.300	17.388	78.270	78.352	1.869	13.180	2.385	13.400
107	5.350	17.552	89.870	89.843	1.903	-4.280	2.118	19.600
108	5.400	17.716	60.690	60.679	2.113	-1.840	3.482	22.400
109	5.450	17.880	23.380	23.419	1.065	6.210	4.548	26.500
110	5.500	18.044	17.120	17.120	0.851	-0.010	4.971	25.100
111	5.550	18.208	49.200	49.210	0.892	1.660	1.813	44.000
112	5.600	18.372	66.360	66.363	1.278	0.500	1.926	53.300
113	5.650	18.537	39.250	39.260	1.134	1.530	2.888	64.300
114	5.700	18.701	18.810	18.886	0.900	12.140	4.765	76.700
115	5.750	18.865	18.930	18.940	0.705	1.600	3.722	92.600
116	5.800	19.029	18.490	18.732	0.702	38.730	3.748	103.000
117	5.850	19.193	21.930	22.472	0.709	86.760	3.155	93.000
118	5.900	19.357	25.750	26.529	0.876	124.830	3.302	85.700
119	5.950	19.521	27.810	27.955	0.993	23.170	3.552	85.100
120	6.000	19.685	26.600	26.731	0.811	20.960	3.034	94.800
121	6.050	19.849	16.720	17.378	0.659	105.340	3.792	84.600
122	6.100	20.013	18.150	18.653	0.579	80.570	3.104	78.800
123	6.150	20.177	18.010	18.191	0.589	29.040	3.238	58.600
124	6.200	20.341	22.360	22.562	0.678	32.390	3.005	49.800
125	6.250	20.505	36.830	36.815	0.798	-2.430	2.168	31.600
126	6.300	20.669	40.960	41.026	1.317	10.580	3.210	27.000
127	6.350	20.833	47.450	47.489	1.198	6.240	2.523	23.900
128	6.400	20.997	84.450	84.482	1.748	5.140	2.069	23.800
129	6.450	21.161	68.860	68.887	1.920	4.320	2.787	19.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	55.610	55.691	2.320	12.950	4.166	21.500
131	6.550	21.489	67.800	67.774	2.365	-4.160	3.490	11.200
132	6.600	21.653	84.820	84.823	2.221	0.560	2.618	15.600
133	6.650	21.817	65.530	65.564	2.335	5.380	3.561	23.600
134	6.700	21.981	32.730	32.755	2.002	4.070	6.112	18.500
135	6.750	22.145	40.690	40.684	1.343	-1.030	3.301	16.500
136	6.800	22.309	43.440	43.462	1.079	3.520	2.483	19.400
137	6.850	22.473	33.590	33.594	1.407	0.720	4.188	18.200
138	6.900	22.638	47.570	47.571	1.256	0.120	2.640	23.500
139	6.950	22.802	48.870	48.866	1.455	-0.690	2.978	19.600
140	7.000	22.966	44.640	44.694	1.731	8.680	3.873	22.700
141	7.050	23.130	41.620	41.680	1.613	9.600	3.870	19.200
142	7.100	23.294	53.910	54.740	1.512	133.030	2.762	14.000
143	7.150	23.458	78.460	78.690	1.185	36.920	1.506	19.800
144	7.200	23.622	85.120	85.275	1.183	24.890	1.387	19.500
145	7.250	23.786	27.190	27.300	1.151	17.570	4.216	25.200
146	7.300	23.950	20.340	20.380	0.755	6.340	3.705	24.700
147	7.350	24.114	24.020	24.027	0.635	1.140	2.643	26.700
148	7.400	24.278	26.200	26.245	0.657	7.230	2.503	43.000
149	7.450	24.442	17.970	18.209	0.523	38.230	2.872	56.200
150	7.500	24.606	19.680	20.144	0.682	74.300	3.386	53.200
151	7.550	24.770	37.720	37.748	0.877	4.430	2.323	50.400
152	7.600	24.934	51.810	51.883	1.080	11.640	2.082	49.400
153	7.650	25.098	41.390	41.419	1.265	4.680	3.054	44.400
154	7.700	25.262	24.380	24.395	1.073	2.460	4.398	40.400
155	7.750	25.426	38.570	38.571	0.791	0.130	2.051	36.700
156	7.800	25.590	76.460	76.473	1.237	2.020	1.618	38.100
157	7.850	25.754	109.700	109.751	2.302	8.110	2.097	43.100
158	7.900	25.918	133.450	133.584	2.646	21.430	1.981	49.100
159	7.950	26.082	27.420	27.412	2.106	-1.300	7.683	64.400
160	8.000	26.246	20.970	21.177	1.028	33.200	4.854	80.200
161	8.050	26.410	17.250	17.593	0.498	54.940	2.831	75.900
162	8.100	26.574	22.820	23.006	0.514	29.760	2.234	76.900
163	8.150	26.739	26.490	26.641	0.678	24.120	2.545	74.700
164	8.200	26.903	27.710	27.777	0.821	10.790	2.956	52.300
165	8.250	27.067	31.220	31.349	0.763	20.610	2.434	48.500
166	8.300	27.231	43.890	44.219	1.461	52.630	3.304	37.400
167	8.350	27.395	80.230	80.294	2.219	10.180	2.764	36.300
168	8.400	27.559	64.680	64.705	2.357	4.030	3.643	26.300
169	8.450	27.723	26.050	26.056	2.392	0.970	9.180	26.000
170	8.500	27.887	73.690	73.724	2.191	5.370	2.972	30.500
171	8.550	28.051	69.580	69.589	1.348	1.410	1.937	31.100
172	8.600	28.215	28.450	28.467	1.706	2.660	5.993	31.100
173	8.650	28.379	39.250	39.332	1.243	13.060	3.160	38.000
174	8.700	28.543	23.870	23.961	0.913	14.570	3.810	43.600
175	8.750	28.707	27.100	27.334	1.000	37.460	3.658	58.200
176	8.800	28.871	33.990	34.034	0.961	7.050	2.824	75.500
177	8.850	29.035	30.300	30.354	1.167	8.610	3.845	93.800
178	8.900	29.199	33.160	33.666	0.842	81.090	2.501	137.800
179	8.950	29.363	44.840	44.902	0.925	9.920	2.060	140.000
180	9.000	29.527	56.350	56.449	1.106	15.900	1.959	124.700
181	9.050	29.691	50.590	50.601	1.162	1.710	2.296	107.600
182	9.100	29.855	38.140	38.173	1.054	5.220	2.761	92.600
183	9.150	30.019	41.600	41.707	0.872	17.190	2.091	81.300
184	9.200	30.183	56.470	56.576	1.207	16.900	2.133	66.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	45.360	45.378	1.586	2.940	3.495	46.800
186	9.300	30.511	63.490	63.652	1.572	25.930	2.470	35.400
187	9.350	30.675	65.120	66.554	2.073	229.730	3.115	39.800
188	9.400	30.840	59.620	59.682	2.376	9.990	3.981	30.300
189	9.450	31.004	38.350	38.417	2.536	10.730	6.601	35.500
190	9.500	31.168	57.990	58.211	2.709	35.450	4.654	28.000
191	9.550	31.332	90.490	90.672	2.915	29.130	3.215	23.700
192	9.600	31.496	158.390	158.445	2.274	8.780	1.435	37.500
193	9.650	31.660	88.710	88.698	2.031	-1.860	2.290	30.500
194	9.700	31.824	68.230	68.353	2.007	19.640	2.936	53.600
195	9.750	31.988	59.530	59.553	1.142	3.690	1.918	57.100
196	9.800	32.152	30.290	30.439	0.891	23.940	2.927	70.200
197	9.850	32.316	23.240	23.952	0.604	114.000	2.522	75.700
198	9.900	32.480	24.640	25.289	0.386	103.980	1.526	74.400
199	9.950	32.644	25.000	25.869	0.477	139.230	1.844	86.200
200	10.000	32.808	25.230	25.783	0.488	88.600	1.893	68.800
201	10.050	32.972	23.730	24.225	0.557	79.270	2.299	72.000
202	10.100	33.136	22.020	22.234	0.641	34.360	2.883	66.900
203	10.150	33.300	27.220	27.351	0.557	20.950	2.037	55.700
204	10.200	33.464	74.830	75.195	1.011	58.410	1.345	66.900
205	10.250	33.628	37.110	37.181	1.304	11.420	3.507	68.400
206	10.300	33.792	64.080	64.140	1.448	9.690	2.258	70.600
207	10.350	33.956	33.680	33.754	1.033	11.900	3.060	75.700
208	10.400	34.120	28.230	28.551	0.990	51.450	3.467	74.300
209	10.450	34.284	30.010	30.280	0.602	43.280	1.988	78.300
210	10.500	34.448	30.080	30.399	0.727	51.080	2.392	79.500
211	10.550	34.612	35.510	35.941	0.919	69.050	2.557	66.100
212	10.600	34.776	70.390	70.471	1.317	12.960	1.869	61.300
213	10.650	34.941	75.950	75.938	1.562	-2.000	2.057	78.000
214	10.700	35.105	24.320	24.332	1.472	1.860	6.050	68.500
215	10.750	35.269	21.050	21.099	0.998	7.840	4.730	74.900
216	10.800	35.433	17.280	17.331	0.608	8.110	3.508	75.900
217	10.850	35.597	16.720	16.846	0.723	20.220	4.292	79.700
218	10.900	35.761	17.740	17.836	0.967	15.360	5.422	79.800
219	10.950	35.925	17.050	17.113	1.075	10.120	6.282	77.900
220	11.000	36.089	17.540	17.611	0.980	11.320	5.565	71.000
221	11.050	36.253	23.850	23.898	0.838	7.760	3.507	73.000
222	11.100	36.417	32.170	32.186	0.698	2.600	2.169	74.700
223	11.150	36.581	20.570	20.632	0.684	9.870	3.315	76.700
224	11.200	36.745	26.800	26.922	0.638	19.600	2.370	73.700
225	11.250	36.909	27.340	27.457	0.670	18.800	2.440	80.600
226	11.300	37.073	30.050	30.166	0.649	18.520	2.151	75.300
227	11.350	37.237	22.830	22.933	0.694	16.570	3.026	77.400
228	11.400	37.401	52.460	52.408	0.721	-8.370	1.376	80.600
229	11.450	37.565	57.960	57.903	1.188	-9.080	2.052	79.600
230	11.500	37.729	31.730	31.691	1.221	-6.320	3.853	0.000
231	11.550	37.893	18.570	18.715	0.898	23.190	4.798	0.000
232	11.600	38.057	19.220	19.311	0.515	14.520	2.667	0.000
233	11.650	38.221	15.910	16.008	0.515	15.740	3.217	0.000
234	11.700	38.385	15.530	15.658	0.488	20.510	3.117	0.000
235	11.750	38.549	13.610	13.744	0.615	21.480	4.475	0.000
236	11.800	38.713	14.160	14.291	0.557	21.010	3.898	0.000
237	11.850	38.877	20.240	20.288	0.936	7.680	4.614	0.000
238	11.900	39.042	12.010	12.187	0.478	28.390	3.922	0.000
239	11.950	39.206	47.590	47.566	0.631	-3.910	1.327	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	62.500	62.474	0.811	-4.140	1.298	0.000
241	12.050	39.534	30.770	30.818	0.741	7.740	2.404	0.000
242	12.100	39.698	118.340	118.388	3.482	7.710	2.941	0.000
243	12.150	39.862	109.430	109.434	3.414	0.590	3.120	0.000
244	12.200	40.026	208.670	208.655	0.000	-2.350	0.000	0.000
245	12.250	40.190	390.040	390.046	0.000	0.960	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221639
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-5
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	15:10
CPT File:	13-53075_GP15-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722316.664
Northing / Lat:	4294349.094
Elevation:	142.885
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	31.000	31.005	0.090	0.840	0.290	26.000
2	0.100	0.328	38.210	38.220	0.054	1.610	0.141	27.400
3	0.150	0.492	47.740	47.729	0.110	-1.840	0.230	34.300
4	0.200	0.656	63.310	63.350	0.084	6.440	0.133	32.700
5	0.250	0.820	57.780	57.781	0.203	0.240	0.351	38.800
6	0.300	0.984	54.620	54.682	0.165	9.910	0.302	54.500
7	0.350	1.148	50.700	50.710	0.168	1.580	0.331	42.300
8	0.400	1.312	44.540	44.583	0.338	6.830	0.758	54.200
9	0.450	1.476	50.190	50.195	0.387	0.760	0.771	55.300
10	0.500	1.640	20.230	20.382	0.394	24.340	1.933	73.700
11	0.550	1.804	11.490	11.696	0.490	32.940	4.190	79.600
12	0.600	1.968	12.470	12.668	0.376	31.770	2.968	89.900
13	0.650	2.133	20.930	20.977	0.376	7.470	1.792	103.700
14	0.700	2.297	40.590	40.624	0.467	5.390	1.150	90.900
15	0.750	2.461	56.450	56.450	0.627	0.010	1.111	94.600
16	0.800	2.625	79.220	79.230	0.762	1.650	0.962	97.700
17	0.850	2.789	90.660	90.669	1.003	1.370	1.106	100.000
18	0.900	2.953	98.490	98.495	1.174	0.780	1.192	103.100
19	0.950	3.117	102.970	102.983	1.351	2.140	1.312	99.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	109.070	109.080	1.557	1.640	1.427	100.100
21	1.050	3.445	113.570	113.569	1.732	-0.210	1.525	88.600
22	1.100	3.609	111.160	111.159	1.819	-0.100	1.636	88.700
23	1.150	3.773	97.020	97.018	1.753	-0.400	1.807	96.500
24	1.200	3.937	78.450	78.443	1.626	-1.160	2.073	81.600
25	1.250	4.101	63.170	63.179	1.500	1.440	2.374	89.800
26	1.300	4.265	52.090	52.115	1.445	3.960	2.773	93.400
27	1.350	4.429	45.810	45.807	1.213	-0.480	2.648	94.400
28	1.400	4.593	39.270	39.264	0.956	-0.970	2.435	95.100
29	1.450	4.757	34.690	34.678	0.729	-1.890	2.102	92.800
30	1.500	4.921	31.540	31.516	0.539	-3.890	1.710	113.400
31	1.550	5.085	30.430	30.406	0.530	-3.890	1.743	98.300
32	1.600	5.249	33.840	33.841	0.609	0.230	1.800	85.600
33	1.650	5.413	37.960	37.993	0.779	5.240	2.050	97.100
34	1.700	5.577	40.010	40.031	0.850	3.310	2.123	93.500
35	1.750	5.741	35.650	35.640	0.969	-1.640	2.719	87.400
36	1.800	5.905	42.980	42.965	1.063	-2.370	2.474	99.500
37	1.850	6.069	50.520	50.503	0.939	-2.780	1.859	100.900
38	1.900	6.234	53.630	53.603	0.944	-4.320	1.761	97.000
39	1.950	6.398	34.540	34.492	1.129	-7.630	3.273	100.200
40	2.000	6.562	24.860	24.798	1.205	-9.880	4.859	87.400
41	2.050	6.726	40.080	40.023	1.354	-9.060	3.383	79.500
42	2.100	6.890	38.330	38.296	1.048	-5.380	2.737	64.400
43	2.150	7.054	33.710	33.672	1.116	-6.130	3.314	64.000
44	2.200	7.218	42.160	42.157	0.335	-0.460	0.795	59.100
45	2.250	7.382	57.650	57.652	0.650	0.320	1.127	62.600
46	2.300	7.546	38.850	38.853	0.854	0.420	2.198	64.000
47	2.350	7.710	51.400	51.418	0.883	2.940	1.717	66.200
48	2.400	7.874	59.060	59.101	0.745	6.550	1.261	78.300
49	2.450	8.038	47.560	47.577	0.561	2.710	1.179	66.500
50	2.500	8.202	29.410	29.405	0.479	-0.740	1.629	51.800
51	2.550	8.366	14.560	14.543	0.549	-2.650	3.775	53.000
52	2.600	8.530	11.130	11.132	0.376	0.300	3.378	34.200
53	2.650	8.694	19.500	19.450	0.403	-8.040	2.072	35.400
54	2.700	8.858	18.940	18.944	0.474	0.690	2.502	29.600
55	2.750	9.022	12.190	12.211	0.562	3.440	4.602	23.200
56	2.800	9.186	15.880	15.868	0.470	-1.870	2.962	24.700
57	2.850	9.350	20.730	20.735	0.457	0.780	2.204	28.000
58	2.900	9.514	20.770	20.822	0.423	8.390	2.031	17.100
59	2.950	9.678	26.370	26.359	0.557	-1.750	2.113	22.200
60	3.000	9.842	11.960	11.996	0.468	5.780	3.901	14.100
61	3.050	10.006	20.360	20.343	1.318	-2.700	6.479	12.900
62	3.100	10.170	65.370	65.438	1.867	10.840	2.853	9.700
63	3.150	10.335	132.360	132.359	0.794	-0.200	0.600	11.300
64	3.200	10.499	157.800	157.790	0.567	-1.620	0.359	13.500
65	3.250	10.663	186.890	186.904	1.315	2.190	0.704	14.600
66	3.300	10.827	45.470	45.544	1.659	11.840	3.643	13.800
67	3.350	10.991	24.690	24.710	1.108	3.170	4.484	14.700
68	3.400	11.155	18.790	18.786	0.729	-0.590	3.880	16.900
69	3.450	11.319	17.770	17.791	0.488	3.320	2.743	12.500
70	3.500	11.483	18.370	18.397	0.464	4.340	2.522	13.700
71	3.550	11.647	34.430	34.437	0.583	1.140	1.693	13.900
72	3.600	11.811	41.120	41.167	0.772	7.590	1.875	6.800
73	3.650	11.975	49.170	49.217	0.801	7.500	1.627	16.000
74	3.700	12.139	16.360	16.355	0.677	-0.780	4.139	11.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	6.560	6.563	0.400	0.420	6.095	17.100
76	3.800	12.467	15.440	15.443	0.417	0.460	2.700	13.400
77	3.850	12.631	35.350	35.382	0.546	5.070	1.543	16.600
78	3.900	12.795	44.790	44.878	0.661	14.070	1.473	17.200
79	3.950	12.959	56.530	56.520	0.791	-1.670	1.400	17.700
80	4.000	13.123	20.370	20.410	0.699	6.420	3.425	19.400
81	4.050	13.287	20.560	20.582	0.671	3.600	3.260	24.500
82	4.100	13.451	14.040	14.069	0.383	4.720	2.722	22.600
83	4.150	13.615	24.390	24.404	0.344	2.310	1.410	26.500
84	4.200	13.779	58.620	58.685	0.661	10.440	1.126	35.300
85	4.250	13.943	63.670	63.684	0.912	2.170	1.432	38.100
86	4.300	14.107	32.200	32.315	1.089	18.360	3.370	36.400
87	4.350	14.271	22.360	22.365	0.930	0.800	4.158	56.000
88	4.400	14.436	19.770	19.783	0.761	2.140	3.847	57.100
89	4.450	14.600	22.520	22.547	0.834	4.310	3.699	51.300
90	4.500	14.764	52.340	52.377	1.289	5.970	2.461	46.800
91	4.550	14.928	24.990	25.009	0.628	3.000	2.511	35.000
92	4.600	15.092	114.550	114.578	0.737	4.530	0.643	28.200
93	4.650	15.256	260.700	260.743	6.248	6.960	2.396	37.100
94	4.700	15.420	208.460	208.477	5.533	2.720	2.654	28.100
95	4.750	15.584	9.100	9.120	4.606	3.250	50.503	23.000
96	4.800	15.748	15.160	15.190	0.461	4.810	3.035	21.100
97	4.850	15.912	25.230	25.226	0.536	-0.690	2.125	18.900
98	4.900	16.076	29.360	29.374	0.500	2.320	1.702	22.600
99	4.950	16.240	54.960	54.968	0.517	1.290	0.941	21.300
100	5.000	16.404	80.970	80.969	1.259	-0.100	1.555	16.200
101	5.050	16.568	79.550	79.549	1.526	-0.230	1.918	21.500
102	5.100	16.732	48.820	48.849	2.055	4.640	4.207	19.400
103	5.150	16.896	57.200	57.194	2.008	-0.940	3.511	23.300
104	5.200	17.060	69.090	69.135	1.794	7.240	2.595	16.800
105	5.250	17.224	67.760	67.758	1.679	-0.380	2.478	22.600
106	5.300	17.388	56.490	56.496	1.575	0.920	2.788	26.700
107	5.350	17.552	59.620	59.615	1.750	-0.790	2.935	26.700
108	5.400	17.716	47.910	47.932	1.196	3.490	2.495	35.400
109	5.450	17.880	50.890	50.933	1.281	6.920	2.515	33.400
110	5.500	18.044	28.620	28.627	0.923	1.120	3.224	38.100
111	5.550	18.208	15.350	15.397	1.385	7.540	8.995	44.000
112	5.600	18.372	50.470	50.483	1.551	2.150	3.072	57.600
113	5.650	18.537	86.470	86.485	1.261	2.340	1.458	56.900
114	5.700	18.701	31.750	31.797	1.454	7.520	4.573	66.000
115	5.750	18.865	28.050	28.052	0.832	0.340	2.966	72.100
116	5.800	19.029	26.380	26.522	0.691	22.710	2.605	80.300
117	5.850	19.193	35.010	35.035	0.733	4.030	2.092	84.800
118	5.900	19.357	26.010	26.017	0.782	1.160	3.006	80.400
119	5.950	19.521	22.180	22.166	0.821	-2.280	3.704	76.200
120	6.000	19.685	20.380	20.363	0.796	-2.710	3.909	68.900
121	6.050	19.849	17.670	17.648	0.628	-3.560	3.559	52.900
122	6.100	20.013	18.420	18.404	0.448	-2.530	2.434	52.000
123	6.150	20.177	18.590	18.577	0.414	-2.020	2.229	36.500
124	6.200	20.341	16.270	16.257	0.385	-2.060	2.368	34.800
125	6.250	20.505	39.080	39.090	0.487	1.550	1.246	31.700
126	6.300	20.669	36.550	36.595	0.666	7.130	1.820	30.200
127	6.350	20.833	12.090	12.125	0.649	5.590	5.353	34.900
128	6.400	20.997	11.790	11.926	0.694	21.790	5.819	38.800
129	6.450	21.161	15.190	15.281	0.625	14.620	4.090	45.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	18.180	18.238	0.616	9.240	3.378	47.800
131	6.550	21.489	17.990	18.029	0.609	6.190	3.378	46.900
132	6.600	21.653	9.660	9.666	0.501	0.970	5.183	42.500
133	6.650	21.817	13.150	13.189	0.419	6.320	3.177	28.600
134	6.700	21.981	13.430	13.492	0.451	9.900	3.343	27.800
135	6.750	22.145	19.650	19.710	0.700	9.670	3.551	29.200
136	6.800	22.309	24.810	24.880	0.838	11.140	3.368	25.100
137	6.850	22.473	18.420	18.635	0.793	34.380	4.256	19.200
138	6.900	22.638	38.450	38.575	0.832	20.030	2.157	18.600
139	6.950	22.802	42.190	42.234	1.434	7.030	3.395	20.100
140	7.000	22.966	52.380	52.388	1.575	1.240	3.006	17.100
141	7.050	23.130	16.410	16.501	1.666	14.550	10.096	20.400
142	7.100	23.294	72.680	72.799	2.061	19.050	2.831	22.400
143	7.150	23.458	57.750	57.860	1.974	17.580	3.412	22.200
144	7.200	23.622	26.480	26.506	1.758	4.180	6.632	29.500
145	7.250	23.786	25.980	26.014	1.160	5.380	4.459	38.800
146	7.300	23.950	19.780	19.807	0.778	4.380	3.928	43.000
147	7.350	24.114	17.270	17.314	0.679	6.980	3.922	47.100
148	7.400	24.278	10.490	10.555	0.514	10.460	4.870	58.900
149	7.450	24.442	7.490	7.556	0.400	10.650	5.293	67.300
150	7.500	24.606	8.790	8.944	0.383	24.640	4.282	87.300
151	7.550	24.770	11.200	11.441	0.529	38.590	4.624	78.200
152	7.600	24.934	11.720	11.866	0.867	23.360	7.307	75.700
153	7.650	25.098	11.050	11.211	0.623	25.720	5.557	62.400
154	7.700	25.262	18.950	18.924	0.859	-4.110	4.539	53.600
155	7.750	25.426	19.270	19.314	0.782	6.970	4.049	54.800
156	7.800	25.590	10.760	10.807	0.621	7.600	5.746	46.400
157	7.850	25.754	10.310	10.367	0.667	9.080	6.434	46.000
158	7.900	25.918	23.880	23.871	0.370	-1.470	1.550	47.800
159	7.950	26.082	30.580	30.601	0.481	3.380	1.572	38.300
160	8.000	26.246	43.690	43.709	0.700	3.000	1.602	35.600
161	8.050	26.410	51.310	51.332	0.599	3.460	1.167	38.700
162	8.100	26.574	49.760	49.814	0.776	8.640	1.558	49.300
163	8.150	26.739	71.110	71.130	1.203	3.240	1.691	46.700
164	8.200	26.903	37.690	37.711	1.136	3.440	3.012	47.400
165	8.250	27.067	15.330	15.461	0.967	20.980	6.254	70.500
166	8.300	27.231	16.980	17.337	0.368	57.120	2.123	71.100
167	8.350	27.395	48.140	48.399	0.516	41.440	1.066	66.500
168	8.400	27.559	37.600	37.677	0.566	12.370	1.502	76.800
169	8.450	27.723	17.170	17.257	0.524	13.880	3.037	77.600
170	8.500	27.887	15.250	15.474	0.431	35.830	2.785	81.600
171	8.550	28.051	12.440	12.609	0.377	27.040	2.990	81.300
172	8.600	28.215	12.510	12.674	0.325	26.200	2.564	90.200
173	8.650	28.379	32.180	32.334	1.040	24.720	3.216	72.100
174	8.700	28.543	80.330	80.475	0.984	23.280	1.223	91.200
175	8.750	28.707	16.900	17.075	0.932	28.020	5.458	89.900
176	8.800	28.871	16.640	17.072	0.814	69.160	4.768	88.100
177	8.850	29.035	19.390	19.937	0.392	87.680	1.966	81.500
178	8.900	29.199	21.130	21.575	0.434	71.280	2.012	70.400
179	8.950	29.363	21.280	21.638	0.449	57.380	2.075	76.000
180	9.000	29.527	19.910	20.334	0.440	67.960	2.164	66.400
181	9.050	29.691	19.810	20.159	0.702	55.950	3.482	67.600
182	9.100	29.855	21.350	21.629	1.097	44.620	5.072	55.500
183	9.150	30.019	44.040	44.088	1.079	7.610	2.447	56.200
184	9.200	30.183	36.150	36.196	1.322	7.420	3.652	41.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	57.860	58.021	1.401	25.830	2.415	58.900
186	9.300	30.511	32.060	32.140	1.109	12.860	3.450	69.700
187	9.350	30.675	17.590	17.641	0.785	8.160	4.450	81.500
188	9.400	30.840	15.760	15.892	0.428	21.130	2.693	75.500
189	9.450	31.004	15.600	15.978	0.204	60.550	1.277	63.500
190	9.500	31.168	26.430	26.603	0.348	27.790	1.308	63.800
191	9.550	31.332	32.230	32.274	0.554	7.110	1.717	67.900
192	9.600	31.496	18.410	18.580	0.512	27.210	2.756	75.800
193	9.650	31.660	14.220	14.535	0.385	50.410	2.649	75.600
194	9.700	31.824	21.920	22.307	0.269	62.000	1.206	72.600
195	9.750	31.988	20.060	20.099	0.351	6.180	1.746	73.600
196	9.800	32.152	23.300	23.361	0.479	9.760	2.050	66.300
197	9.850	32.316	63.370	63.453	0.710	13.370	1.119	64.900
198	9.900	32.480	43.030	43.144	1.291	18.270	2.992	67.100
199	9.950	32.644	33.070	33.228	1.325	25.240	3.988	83.900
200	10.000	32.808	22.460	23.579	0.880	179.180	3.732	83.800
201	10.050	32.972	18.000	18.352	0.729	56.410	3.972	88.300
202	10.100	33.136	27.140	27.798	0.501	105.410	1.802	85.900
203	10.150	33.300	32.900	33.633	0.570	117.400	1.695	90.000
204	10.200	33.464	35.510	36.149	0.581	102.380	1.607	81.700
205	10.250	33.628	28.950	29.278	0.682	52.620	2.329	89.700
206	10.300	33.792	26.270	26.439	0.655	27.000	2.477	87.200
207	10.350	33.956	43.990	44.278	0.426	46.190	0.962	81.800
208	10.400	34.120	149.950	149.966	1.694	2.610	1.130	60.200
209	10.450	34.284	139.660	139.707	2.312	7.550	1.655	63.500
210	10.500	34.448	73.960	74.004	2.246	6.970	3.035	76.200
211	10.550	34.612	61.380	61.428	1.708	7.670	2.780	87.000
212	10.600	34.776	27.000	27.101	0.652	16.200	2.406	88.900
213	10.650	34.941	19.680	20.024	0.298	55.030	1.488	82.600
214	10.700	35.105	18.880	19.250	0.220	59.240	1.143	99.200
215	10.750	35.269	19.280	19.657	0.210	60.450	1.068	89.000
216	10.800	35.433	21.070	21.441	0.255	59.410	1.189	88.500
217	10.850	35.597	21.640	22.019	0.282	60.730	1.281	84.400
218	10.900	35.761	23.440	23.886	0.273	71.440	1.143	97.700
219	10.950	35.925	25.320	25.770	0.300	72.080	1.164	102.000
220	11.000	36.089	25.280	25.652	0.342	59.590	1.333	91.000
221	11.050	36.253	25.520	25.867	0.358	55.510	1.384	97.700
222	11.100	36.417	23.420	23.682	0.323	41.960	1.364	89.800
223	11.150	36.581	21.610	21.900	0.321	46.450	1.466	97.400
224	11.200	36.745	21.000	21.333	0.294	53.320	1.378	94.300
225	11.250	36.909	23.560	23.944	0.126	61.480	0.526	98.200
226	11.300	37.073	36.670	37.038	0.276	58.910	0.745	82.200
227	11.350	37.237	43.200	43.212	0.519	1.990	1.201	92.900
228	11.400	37.401	25.220	25.241	0.552	3.300	2.187	88.900
229	11.450	37.565	24.790	24.823	0.714	5.280	2.876	69.000
230	11.500	37.729	26.820	26.890	0.799	11.230	2.971	57.400
231	11.550	37.893	78.390	78.511	1.118	19.370	1.424	58.500
232	11.600	38.057	115.320	115.475	2.146	24.750	1.858	68.600
233	11.650	38.221	76.860	76.943	2.592	13.220	3.369	76.500
234	11.700	38.385	41.370	41.469	1.703	15.880	4.107	80.900
235	11.750	38.549	17.990	18.457	0.877	74.830	4.752	88.600
236	11.800	38.713	18.140	18.789	0.482	103.920	2.565	81.300
237	11.850	38.877	14.610	14.745	0.448	21.560	3.038	72.400
238	11.900	39.042	13.020	13.133	0.544	18.090	4.142	65.300
239	11.950	39.206	16.180	16.355	0.616	27.980	3.767	61.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	21.030	21.161	0.920	20.980	4.348	48.900
241	12.050	39.534	91.000	91.167	1.381	26.770	1.515	42.800
242	12.100	39.698	50.790	50.871	1.757	12.990	3.454	44.600
243	12.150	39.862	26.090	26.192	1.647	16.280	6.288	45.100
244	12.200	40.026	21.190	21.410	1.004	35.240	4.689	42.900
245	12.250	40.190	27.050	27.149	0.847	15.790	3.120	37.800
246	12.300	40.354	17.140	17.238	0.925	15.740	5.366	37.200
247	12.350	40.518	21.710	21.857	0.702	23.540	3.212	30.900
248	12.400	40.682	50.450	50.570	0.929	19.150	1.837	29.600
249	12.450	40.846	56.310	56.393	1.409	13.320	2.499	32.700
250	12.500	41.010	49.390	49.489	1.822	15.790	3.682	43.000
251	12.550	41.174	58.000	58.187	1.730	29.910	2.973	45.300
252	12.600	41.338	53.640	54.156	1.892	82.630	3.494	48.600
253	12.650	41.502	53.120	53.323	1.836	32.530	3.443	59.700
254	12.700	41.666	39.390	39.667	1.593	44.420	4.016	78.300
255	12.750	41.830	20.490	20.924	1.105	69.480	5.281	82.400
256	12.800	41.994	21.760	22.055	0.902	47.320	4.090	89.900
257	12.850	42.158	20.620	20.902	0.930	45.110	4.449	99.600
258	12.900	42.322	20.150	20.356	0.839	32.920	4.122	95.900
259	12.950	42.486	17.450	17.683	0.734	37.340	4.151	84.400
260	13.000	42.650	16.710	16.982	0.585	43.650	3.445	78.800
261	13.050	42.814	24.200	24.599	0.843	63.940	3.427	80.800
262	13.100	42.978	49.920	50.138	0.870	34.940	1.735	81.600
263	13.150	43.143	48.830	49.246	1.245	66.650	2.528	79.200
264	13.200	43.307	47.240	47.263	1.300	3.620	2.751	82.600
265	13.250	43.471	31.520	31.551	1.169	4.990	3.705	70.500
266	13.300	43.635	21.550	21.611	1.271	9.840	5.881	71.100
267	13.350	43.799	18.070	18.157	0.902	13.860	4.968	61.300
268	13.400	43.963	48.710	48.709	1.668	-0.140	3.424	45.100
269	13.450	44.127	99.560	99.707	2.396	23.540	2.403	37.800
270	13.500	44.291	159.440	159.578	3.676	22.060	2.304	29.000
271	13.550	44.455	153.850	154.033	3.329	29.240	2.161	28.700
272	13.600	44.619	105.390	105.498	2.789	17.350	2.644	29.400
273	13.650	44.783	50.310	50.390	2.385	12.840	4.733	23.000
274	13.700	44.947	36.260	36.335	1.499	11.970	4.126	23.600
275	13.750	45.111	27.220	27.377	0.957	25.150	3.496	27.100
276	13.800	45.275	41.480	41.634	1.118	24.720	2.685	25.300
277	13.850	45.439	47.020	47.230	1.357	33.640	2.873	27.900
278	13.900	45.603	72.400	72.570	1.822	27.240	2.511	25.600
279	13.950	45.767	41.080	41.210	1.711	20.800	4.152	24.300
280	14.000	45.931	30.740	31.563	1.629	131.830	5.161	38.200
281	14.050	46.095	29.220	29.600	1.333	60.900	4.503	42.700
282	14.100	46.259	32.350	32.699	1.927	55.850	5.893	44.000
283	14.150	46.423	22.040	22.057	1.553	2.660	7.041	53.800
284	14.200	46.587	12.880	13.047	0.980	26.820	7.511	58.300
285	14.250	46.751	26.820	27.271	0.445	72.280	1.632	49.300
286	14.300	46.915	26.480	26.749	0.496	43.140	1.854	47.100
287	14.350	47.079	38.760	39.061	0.529	48.290	1.354	44.400
288	14.400	47.244	78.440	78.518	0.729	12.460	0.928	33.800
289	14.450	47.408	93.580	93.631	0.849	8.100	0.907	29.800
290	14.500	47.572	92.950	93.095	1.458	23.280	1.566	21.500
291	14.550	47.736	126.530	126.759	0.935	36.760	0.738	26.400
292	14.600	47.900	110.890	111.335	1.299	71.360	1.167	21.700
293	14.650	48.064	72.760	73.075	1.549	50.510	2.120	20.600
294	14.700	48.228	47.550	47.991	1.156	70.590	2.409	17.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	57.420	57.652	0.414	37.150	0.718	26.700
296	14.800	48.556	45.880	46.041	0.271	25.870	0.589	31.400
297	14.850	48.720	19.120	19.192	0.224	11.590	1.167	47.000
298	14.900	48.884	12.320	12.457	0.210	21.870	1.686	42.800
299	14.950	49.048	12.650	12.815	0.160	26.470	1.249	52.300
300	15.000	49.212	12.870	12.949	0.103	12.700	0.795	62.700
301	15.050	49.376	11.210	11.341	0.137	20.950	1.208	66.500
302	15.100	49.540	13.190	13.444	0.232	40.730	1.726	59.800
303	15.150	49.704	18.230	18.652	0.211	67.650	1.131	69.200
304	15.200	49.868	19.600	20.114	0.286	82.270	1.422	68.400
305	15.250	50.032	28.070	28.847	0.343	124.500	1.189	71.700
306	15.300	50.196	38.110	38.455	0.258	55.260	0.671	60.300
307	15.350	50.360	25.810	26.191	0.254	61.080	0.970	65.600
308	15.400	50.524	23.910	24.205	0.208	47.260	0.859	54.800
309	15.450	50.688	18.270	19.013	0.150	119.080	0.789	50.300
310	15.500	50.852	18.610	19.289	0.762	108.820	3.950	40.500
311	15.550	51.016	17.820	18.764	1.288	151.160	6.864	39.800
312	15.600	51.180	81.460	82.014	1.069	88.800	1.303	42.000
313	15.650	51.345	84.730	85.037	1.804	49.200	2.121	38.000
314	15.700	51.509	79.420	79.595	1.942	28.110	2.440	47.300
315	15.750	51.673	91.050	91.129	2.089	12.660	2.292	50.900
316	15.800	51.837	73.620	73.857	2.701	37.990	3.657	46.100
317	15.850	52.001	81.340	81.637	2.032	47.630	2.489	50.900
318	15.900	52.165	57.340	57.443	1.666	16.430	2.900	58.400
319	15.950	52.329	27.930	28.212	1.026	45.130	3.637	57.700
320	16.000	52.493	41.390	42.049	1.037	105.530	2.466	59.000
321	16.050	52.657	34.630	35.304	0.825	107.970	2.337	73.300
322	16.100	52.821	24.960	25.685	0.804	116.190	3.130	77.100
323	16.150	52.985	22.210	22.461	0.575	40.150	2.560	78.400
324	16.200	53.149	20.410	20.731	0.336	51.350	1.621	82.600
325	16.250	53.313	17.350	17.686	0.238	53.880	1.346	80.000
326	16.300	53.477	18.060	18.465	0.254	64.810	1.376	82.700
327	16.350	53.641	17.820	18.177	0.337	57.130	1.854	90.600
328	16.400	53.805	15.860	16.307	0.655	71.610	4.017	81.400
329	16.450	53.969	37.660	38.265	0.733	96.900	1.916	83.800
330	16.500	54.133	162.200	162.309	3.814	17.530	2.350	66.700
331	16.550	54.297	110.590	110.722	2.560	21.100	2.312	53.900
332	16.600	54.461	97.650	97.890	3.960	38.380	4.045	59.100
333	16.650	54.625	96.200	96.316	2.949	18.510	3.062	52.500
334	16.700	54.789	56.620	56.739	2.545	19.100	4.485	45.600
335	16.750	54.953	67.410	67.523	0.931	18.050	1.379	48.000
336	16.800	55.117	79.010	79.152	0.634	22.700	0.801	52.200
337	16.850	55.281	16.390	16.508	0.435	18.950	2.635	57.400
338	16.900	55.446	7.760	7.878	0.582	18.870	7.388	76.200
339	16.950	55.610	9.280	9.449	0.499	27.020	5.281	85.900
340	17.000	55.774	5.740	5.892	0.099	24.350	1.680	92.300
341	17.050	55.938	2.130	2.311	0.067	29.060	2.899	87.300
342	17.100	56.102	2.170	2.358	0.087	30.110	3.690	81.300
343	17.150	56.266	4.200	4.400	0.184	32.000	4.182	94.300
344	17.200	56.430	21.430	21.567	0.496	21.990	2.300	78.500
345	17.250	56.594	13.680	13.782	0.492	16.370	3.570	91.100
346	17.300	56.758	12.240	12.353	0.243	18.140	1.967	98.400
347	17.350	56.922	12.970	13.022	0.261	8.320	2.004	111.500
348	17.400	57.086	23.090	23.110	0.274	3.250	1.186	113.900
349	17.450	57.250	28.940	28.943	0.355	0.440	1.227	115.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
350	17.500	57.414	38.020	38.005	0.506	-2.410	1.331	117.400
351	17.550	57.578	49.530	49.622	0.568	14.740	1.145	116.200
352	17.600	57.742	49.390	49.405	0.763	2.460	1.544	118.300
353	17.650	57.906	52.540	52.511	0.872	-4.710	1.661	0.000
354	17.700	58.070	40.100	40.050	1.011	-7.980	2.524	0.000
355	17.750	58.234	36.080	36.028	0.948	-8.280	2.631	0.000
356	17.800	58.398	29.820	29.770	0.777	-8.000	2.610	0.000
357	17.850	58.562	23.410	23.358	0.628	-8.250	2.689	0.000
358	17.900	58.726	15.750	15.743	0.388	-1.150	2.465	0.000
359	17.950	58.890	6.840	6.864	0.210	3.880	3.059	0.000
360	18.000	59.054	5.170	5.197	0.145	4.280	2.790	0.000
361	18.050	59.218	4.750	4.785	0.098	5.570	2.048	0.000
362	18.100	59.382	4.210	4.259	0.331	7.900	7.771	0.000
363	18.150	59.547	4.970	5.021	1.590	8.110	31.669	0.000
364	18.200	59.711	213.530	213.507	2.554	-3.670	1.196	0.000
365	18.250	59.875	110.790	110.711	2.480	-12.670	2.240	0.000
366	18.300	60.039	249.480	249.478	3.094	-0.320	1.240	0.000
367	18.350	60.203	269.190	269.198	0.000	1.270	0.000	0.000
368	18.400	60.367	352.350	352.357	0.000	1.140	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221641
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-6
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	13:29
CPT File:	13-53075_GP15-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722326.309
Northing / Lat:	4294336.743
Elevation:	142.764
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	17.590	17.602	0.004	1.980	0.023	28.600
2	0.100	0.328	20.020	20.027	0.003	1.100	0.015	34.300
3	0.150	0.492	22.400	22.400	0.083	0.070	0.371	37.600
4	0.200	0.656	21.070	21.070	0.116	-0.080	0.551	49.900
5	0.250	0.820	19.800	19.803	0.135	0.410	0.682	56.800
6	0.300	0.984	37.360	37.372	0.139	1.980	0.372	63.600
7	0.350	1.148	7.370	7.386	0.189	2.540	2.559	79.100
8	0.400	1.312	6.810	6.820	0.232	1.670	3.402	77.100
9	0.450	1.476	7.110	7.104	0.274	-1.030	3.857	93.400
10	0.500	1.640	12.400	12.385	0.273	-2.470	2.204	96.300
11	0.550	1.804	18.130	18.165	0.276	5.620	1.519	93.800
12	0.600	1.968	16.330	16.335	0.221	0.770	1.353	91.900
13	0.650	2.133	15.420	15.417	0.170	-0.530	1.103	102.200
14	0.700	2.297	12.880	12.877	0.151	-0.410	1.173	100.800
15	0.750	2.461	12.850	12.846	0.126	-0.570	0.981	105.400
16	0.800	2.625	18.140	18.142	0.141	0.290	0.777	118.300
17	0.850	2.789	28.320	28.329	0.278	1.400	0.981	102.600
18	0.900	2.953	38.690	38.704	0.415	2.260	1.072	98.400
19	0.950	3.117	44.280	44.285	0.541	0.790	1.222	107.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	50.630	50.631	0.595	0.140	1.175	83.400
21	1.050	3.445	71.810	71.813	0.644	0.560	0.897	89.800
22	1.100	3.609	71.830	71.841	0.919	1.800	1.279	91.400
23	1.150	3.773	57.400	57.405	1.180	0.880	2.056	101.100
24	1.200	3.937	44.680	44.679	1.522	-0.150	3.407	89.900
25	1.250	4.101	45.650	45.658	1.100	1.240	2.409	95.800
26	1.300	4.265	65.030	65.023	0.934	-1.080	1.436	83.000
27	1.350	4.429	15.070	15.061	0.692	-1.390	4.595	82.700
28	1.400	4.593	14.660	14.661	0.539	0.210	3.676	71.000
29	1.450	4.757	32.730	32.727	0.453	-0.550	1.384	81.000
30	1.500	4.921	24.500	24.507	0.338	1.180	1.379	68.800
31	1.550	5.085	32.220	32.229	0.364	1.420	1.129	69.300
32	1.600	5.249	37.250	37.253	0.473	0.510	1.270	58.900
33	1.650	5.413	42.800	42.802	1.110	0.380	2.593	59.500
34	1.700	5.577	59.650	59.663	1.037	2.080	1.738	53.600
35	1.750	5.741	65.670	65.809	1.405	22.310	2.135	47.400
36	1.800	5.905	79.300	79.360	1.179	9.650	1.486	36.500
37	1.850	6.069	45.410	45.470	1.120	9.630	2.463	50.700
38	1.900	6.234	19.620	19.610	0.841	-1.650	4.289	59.400
39	1.950	6.398	26.480	26.523	0.488	6.830	1.840	63.500
40	2.000	6.562	44.790	44.857	0.496	10.810	1.106	63.800
41	2.050	6.726	64.510	64.539	0.537	4.720	0.832	61.400
42	2.100	6.890	60.300	60.309	0.518	1.460	0.859	69.100
43	2.150	7.054	35.920	35.930	0.638	1.610	1.776	75.300
44	2.200	7.218	20.880	20.892	0.604	1.990	2.891	77.400
45	2.250	7.382	14.250	14.263	0.512	2.060	3.590	83.500
46	2.300	7.546	14.180	14.196	0.451	2.530	3.177	93.200
47	2.350	7.710	13.600	13.624	0.427	3.890	3.134	88.000
48	2.400	7.874	15.380	15.402	0.380	3.520	2.467	100.000
49	2.450	8.038	18.800	18.840	0.397	6.370	2.107	109.200
50	2.500	8.202	24.500	24.589	0.560	14.320	2.277	102.900
51	2.550	8.366	32.140	32.303	0.652	26.050	2.018	99.600
52	2.600	8.530	32.680	32.772	0.785	14.710	2.395	101.900
53	2.650	8.694	39.600	39.760	0.965	25.660	2.427	101.500
54	2.700	8.858	48.840	48.938	1.205	15.690	2.462	95.500
55	2.750	9.022	47.490	47.510	1.349	3.160	2.839	94.300
56	2.800	9.186	44.220	44.210	1.357	-1.670	3.069	84.400
57	2.850	9.350	39.500	39.478	1.037	-3.580	2.627	77.500
58	2.900	9.514	59.300	59.264	1.586	-5.840	2.676	66.900
59	2.950	9.678	43.430	43.380	1.351	-8.060	3.114	81.000
60	3.000	9.842	21.960	21.904	1.185	-8.900	5.410	98.200
61	3.050	10.006	16.890	16.840	0.806	-7.940	4.786	87.600
62	3.100	10.170	20.940	20.899	0.762	-6.510	3.646	85.300
63	3.150	10.335	21.180	21.146	0.776	-5.480	3.670	79.300
64	3.200	10.499	16.630	16.596	0.762	-5.460	4.591	62.800
65	3.250	10.663	16.660	16.624	0.769	-5.840	4.626	47.000
66	3.300	10.827	22.760	22.731	0.609	-4.680	2.679	44.700
67	3.350	10.991	17.320	17.304	0.495	-2.570	2.861	36.300
68	3.400	11.155	33.330	33.322	0.297	-1.220	0.891	27.100
69	3.450	11.319	50.670	50.664	0.420	-0.960	0.829	28.000
70	3.500	11.483	83.890	83.868	0.041	-3.580	0.049	28.000
71	3.550	11.647	119.790	119.788	0.279	-0.370	0.233	18.100
72	3.600	11.811	38.730	38.749	0.589	3.100	1.520	22.300
73	3.650	11.975	42.510	42.523	0.563	2.160	1.324	24.700
74	3.700	12.139	29.250	29.264	0.561	2.210	1.917	23.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	28.780	28.782	0.509	0.300	1.768	27.100
76	3.800	12.467	9.030	9.033	0.330	0.560	3.653	20.200
77	3.850	12.631	7.740	7.772	0.205	5.190	2.638	24.800
78	3.900	12.795	24.180	24.204	0.296	3.790	1.223	23.600
79	3.950	12.959	17.340	17.338	0.258	-0.350	1.488	32.300
80	4.000	13.123	8.250	8.274	0.373	3.910	4.508	33.600
81	4.050	13.287	25.550	25.554	0.517	0.590	2.023	38.300
82	4.100	13.451	17.050	17.080	0.654	4.750	3.829	48.800
83	4.150	13.615	20.340	20.373	0.627	5.320	3.078	49.300
84	4.200	13.779	27.190	27.217	0.435	4.300	1.598	65.200
85	4.250	13.943	36.630	36.650	0.314	3.260	0.857	70.600
86	4.300	14.107	38.000	38.012	0.284	1.990	0.747	73.300
87	4.350	14.271	32.250	32.256	0.324	0.950	1.004	69.000
88	4.400	14.436	25.180	25.175	0.323	-0.810	1.283	65.000
89	4.450	14.600	19.120	19.108	0.268	-1.940	1.403	51.900
90	4.500	14.764	11.810	11.799	0.302	-1.830	2.560	43.200
91	4.550	14.928	8.290	8.323	0.275	5.240	3.304	40.700
92	4.600	15.092	14.850	14.901	0.360	8.180	2.416	35.300
93	4.650	15.256	42.640	42.685	0.824	7.150	1.930	36.900
94	4.700	15.420	34.020	34.073	0.784	8.510	2.301	35.700
95	4.750	15.584	28.930	28.971	1.060	6.560	3.659	39.600
96	4.800	15.748	44.730	44.754	0.832	3.830	1.859	46.200
97	4.850	15.912	17.500	17.581	0.811	12.940	4.613	48.000
98	4.900	16.076	14.340	14.348	0.485	1.330	3.380	58.100
99	4.950	16.240	20.910	20.919	0.439	1.520	2.099	55.400
100	5.000	16.404	17.740	17.745	0.465	0.800	2.620	71.500
101	5.050	16.568	14.500	14.503	0.586	0.410	4.041	74.200
102	5.100	16.732	42.770	42.819	1.140	7.910	2.662	86.000
103	5.150	16.896	79.640	79.643	1.599	0.490	2.008	80.500
104	5.200	17.060	94.840	94.830	1.826	-1.570	1.926	98.700
105	5.250	17.224	77.600	77.574	1.702	-4.120	2.194	90.500
106	5.300	17.388	62.710	62.668	1.820	-6.750	2.904	96.700
107	5.350	17.552	67.140	67.096	1.678	-7.090	2.501	87.500
108	5.400	17.716	71.220	71.181	1.607	-6.320	2.258	81.100
109	5.450	17.880	53.160	53.113	1.330	-7.510	2.504	68.800
110	5.500	18.044	37.910	37.853	1.109	-9.080	2.930	56.900
111	5.550	18.208	30.130	30.135	1.016	0.860	3.371	44.100
112	5.600	18.372	23.920	23.921	0.883	0.190	3.691	38.800
113	5.650	18.537	23.980	23.992	0.821	1.900	3.422	35.300
114	5.700	18.701	23.200	23.204	0.697	0.630	3.004	26.400
115	5.750	18.865	12.760	12.761	0.478	0.170	3.746	25.300
116	5.800	19.029	24.800	24.800	0.428	0.080	1.726	20.500
117	5.850	19.193	24.710	24.726	0.310	2.600	1.254	25.500
118	5.900	19.357	13.520	13.531	0.452	1.750	3.340	19.400
119	5.950	19.521	12.800	12.810	0.463	1.570	3.614	23.300
120	6.000	19.685	22.580	22.605	0.682	3.930	3.017	18.500
121	6.050	19.849	31.160	31.201	0.800	6.570	2.564	13.400
122	6.100	20.013	21.220	21.248	0.774	4.440	3.643	14.600
123	6.150	20.177	17.180	17.237	0.685	9.160	3.974	14.300
124	6.200	20.341	17.640	17.658	0.859	2.950	4.865	9.000
125	6.250	20.505	24.060	24.063	0.882	0.450	3.665	20.600
126	6.300	20.669	17.720	17.728	0.991	1.240	5.590	16.000
127	6.350	20.833	19.050	19.070	0.997	3.170	5.228	13.600
128	6.400	20.997	23.290	23.333	0.914	6.920	3.917	29.900
129	6.450	21.161	23.170	23.229	0.850	9.410	3.659	15.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	23.570	23.616	0.671	7.350	2.841	16.200
131	6.550	21.489	15.590	15.619	0.395	4.690	2.529	20.400
132	6.600	21.653	20.060	20.086	0.710	4.180	3.535	24.600
133	6.650	21.817	24.460	24.479	0.770	3.040	3.146	18.900
134	6.700	21.981	48.140	48.171	1.094	5.020	2.271	27.100
135	6.750	22.145	26.560	26.621	1.048	9.720	3.937	33.000
136	6.800	22.309	27.800	27.810	0.852	1.680	3.064	43.300
137	6.850	22.473	21.920	21.971	0.639	8.120	2.908	61.500
138	6.900	22.638	30.460	30.544	1.239	13.390	4.056	57.800
139	6.950	22.802	24.080	24.162	1.063	13.070	4.400	55.900
140	7.000	22.966	71.080	71.106	0.887	4.180	1.247	60.800
141	7.050	23.130	73.330	73.348	1.375	2.820	1.875	66.800
142	7.100	23.294	31.990	32.006	1.469	2.540	4.590	67.500
143	7.150	23.458	38.000	38.161	1.046	25.840	2.741	70.200
144	7.200	23.622	21.540	21.896	0.781	57.090	3.567	77.300
145	7.250	23.786	17.670	17.922	0.619	40.340	3.454	69.000
146	7.300	23.950	16.730	16.908	0.642	28.480	3.797	63.400
147	7.350	24.114	16.430	16.618	0.643	30.170	3.869	56.100
148	7.400	24.278	25.760	26.117	0.947	57.170	3.626	41.900
149	7.450	24.442	46.680	46.841	0.964	25.860	2.058	37.600
150	7.500	24.606	38.150	38.224	1.420	11.920	3.715	31.300
151	7.550	24.770	34.870	34.942	1.579	11.460	4.519	28.200
152	7.600	24.934	32.350	32.483	1.423	21.230	4.381	19.600
153	7.650	25.098	38.660	38.806	1.636	23.320	4.216	17.200
154	7.700	25.262	102.720	102.806	1.124	13.740	1.093	14.900
155	7.750	25.426	98.410	98.468	1.011	9.260	1.027	13.800
156	7.800	25.590	222.520	222.560	1.700	6.380	0.764	15.400
157	7.850	25.754	126.410	126.442	1.827	5.050	1.445	14.500
158	7.900	25.918	41.110	41.163	1.718	8.410	4.174	17.600
159	7.950	26.082	30.590	30.676	1.227	13.700	4.000	17.200
160	8.000	26.246	26.730	26.794	1.191	10.190	4.445	19.900
161	8.050	26.410	16.300	16.362	1.149	9.860	7.023	14.400
162	8.100	26.574	58.240	58.469	2.729	36.650	4.667	18.500
163	8.150	26.739	210.390	210.482	2.856	14.670	1.357	13.700
164	8.200	26.903	113.780	113.794	3.745	2.190	3.291	22.400
165	8.250	27.067	138.440	138.714	3.407	43.970	2.456	26.000
166	8.300	27.231	61.450	61.576	2.396	20.240	3.891	25.500
167	8.350	27.395	58.210	59.449	2.087	198.420	3.511	23.400
168	8.400	27.559	56.690	56.734	1.493	7.060	2.632	22.900
169	8.450	27.723	31.580	31.645	1.018	10.480	3.217	28.000
170	8.500	27.887	22.440	22.471	1.036	4.930	4.610	39.200
171	8.550	28.051	31.010	31.080	1.138	11.180	3.662	47.400
172	8.600	28.215	30.060	30.110	0.933	7.990	3.099	71.800
173	8.650	28.379	14.480	14.703	0.909	35.780	6.182	59.400
174	8.700	28.543	13.460	13.702	0.551	38.720	4.021	66.600
175	8.750	28.707	13.660	13.904	0.669	39.060	4.812	56.300
176	8.800	28.871	16.320	16.624	0.789	48.710	4.746	63.700
177	8.850	29.035	35.660	36.081	0.895	67.450	2.481	53.200
178	8.900	29.199	37.460	37.678	1.014	34.940	2.691	67.700
179	8.950	29.363	55.910	56.279	1.470	59.080	2.612	60.200
180	9.000	29.527	59.390	59.441	1.925	8.100	3.239	53.300
181	9.050	29.691	105.880	106.008	1.907	20.500	1.799	41.600
182	9.100	29.855	146.120	146.239	2.631	19.070	1.799	32.400
183	9.150	30.019	112.220	112.274	3.039	8.730	2.707	27.800
184	9.200	30.183	58.570	58.616	2.757	7.310	4.704	22.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	64.680	64.793	2.311	18.140	3.567	19.800
186	9.300	30.511	56.310	56.332	2.240	3.470	3.976	19.300
187	9.350	30.675	78.880	78.975	2.088	15.160	2.644	16.600
188	9.400	30.840	81.950	82.036	1.601	13.780	1.952	9.800
189	9.450	31.004	70.090	70.113	1.970	3.740	2.810	12.300
190	9.500	31.168	81.130	81.157	2.385	4.270	2.939	11.400
191	9.550	31.332	60.240	60.303	1.962	10.100	3.254	12.500
192	9.600	31.496	53.030	53.071	2.010	6.630	3.787	12.300
193	9.650	31.660	59.970	60.256	2.350	45.830	3.900	9.300
194	9.700	31.824	41.150	41.293	1.937	22.960	4.691	13.400
195	9.750	31.988	47.630	48.890	2.097	201.800	4.289	14.700
196	9.800	32.152	48.700	48.903	1.650	32.590	3.374	17.400
197	9.850	32.316	79.720	79.902	1.738	29.200	2.175	15.400
198	9.900	32.480	128.540	128.726	1.961	29.820	1.523	19.000
199	9.950	32.644	92.620	93.632	2.618	162.090	2.796	25.000
200	10.000	32.808	62.800	62.905	2.439	16.810	3.877	24.200
201	10.050	32.972	45.330	45.484	1.811	24.720	3.982	34.700
202	10.100	33.136	49.710	49.775	1.402	10.430	2.817	42.800
203	10.150	33.300	39.830	39.936	1.156	17.020	2.895	46.800
204	10.200	33.464	39.350	39.440	1.184	14.480	3.002	56.000
205	10.250	33.628	89.320	89.470	1.035	23.970	1.157	72.500
206	10.300	33.792	128.630	128.717	1.307	13.860	1.015	74.900
207	10.350	33.956	142.180	142.226	1.956	7.360	1.375	71.200
208	10.400	34.120	130.410	130.445	2.191	5.660	1.680	53.600
209	10.450	34.284	101.000	101.024	2.371	3.890	2.347	44.300
210	10.500	34.448	61.950	61.975	2.384	4.000	3.847	38.400
211	10.550	34.612	108.440	108.522	2.773	13.110	2.555	29.100
212	10.600	34.776	66.630	66.827	2.457	31.580	3.677	20.800
213	10.650	34.941	121.150	121.553	3.216	64.500	2.646	21.100
214	10.700	35.105	89.130	89.350	2.815	35.320	3.151	19.900
215	10.750	35.269	68.270	68.359	2.734	14.220	3.999	18.400
216	10.800	35.433	41.150	41.225	1.625	12.020	3.942	17.500
217	10.850	35.597	32.460	32.553	1.707	14.960	5.244	17.600
218	10.900	35.761	29.800	30.026	1.604	36.200	5.342	17.700
219	10.950	35.925	41.290	41.517	1.471	36.410	3.543	20.900
220	11.000	36.089	53.200	53.390	1.757	30.390	3.291	16.800
221	11.050	36.253	44.010	44.166	2.056	24.970	4.655	18.900
222	11.100	36.417	42.240	43.310	1.768	171.370	4.082	34.100
223	11.150	36.581	32.610	32.845	1.505	37.600	4.582	31.100
224	11.200	36.745	62.670	62.923	1.611	40.560	2.560	35.900
225	11.250	36.909	55.710	55.895	1.800	29.680	3.220	32.700
226	11.300	37.073	47.000	47.174	1.526	27.830	3.235	51.800
227	11.350	37.237	39.560	39.698	1.243	22.040	3.131	50.400
228	11.400	37.401	31.440	31.586	0.907	23.410	2.872	62.500
229	11.450	37.565	20.270	20.483	0.643	34.130	3.139	68.200
230	11.500	37.729	18.510	18.865	0.421	56.870	2.232	82.600
231	11.550	37.893	18.990	19.613	0.356	99.850	1.815	81.900
232	11.600	38.057	17.300	17.909	0.324	97.500	1.809	90.400
233	11.650	38.221	16.250	17.123	0.331	139.910	1.933	89.500
234	11.700	38.385	16.160	17.154	0.297	159.250	1.731	82.900
235	11.750	38.549	17.350	18.258	0.288	145.410	1.577	86.600
236	11.800	38.713	18.880	19.518	0.327	102.200	1.675	86.500
237	11.850	38.877	24.750	25.507	0.519	121.290	2.035	94.900
238	11.900	39.042	26.930	27.338	0.499	65.310	1.825	97.100
239	11.950	39.206	42.250	43.022	0.705	123.710	1.639	86.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	57.970	58.220	0.958	40.110	1.645	87.300
241	12.050	39.534	48.470	48.675	1.026	32.880	2.108	88.100
242	12.100	39.698	34.820	35.059	0.827	38.290	2.359	86.900
243	12.150	39.862	31.450	31.868	1.275	67.030	4.001	0.000
244	12.200	40.026	34.280	34.794	1.045	82.260	3.003	0.000
245	12.250	40.190	100.690	101.389	2.369	112.040	2.337	0.000
246	12.300	40.354	135.120	135.308	3.195	30.160	2.361	0.000
247	12.350	40.518	95.530	95.676	3.786	23.330	3.957	0.000
248	12.400	40.682	112.950	113.247	3.761	47.550	3.321	0.000
249	12.450	40.846	134.860	135.264	3.491	64.670	2.581	0.000
250	12.500	41.010	47.750	47.971	3.414	35.330	7.117	0.000
251	12.550	41.174	59.100	59.303	1.723	32.500	2.905	0.000
252	12.600	41.338	87.570	87.800	1.332	36.830	1.517	0.000
253	12.650	41.502	51.540	52.088	1.557	87.810	2.989	0.000
254	12.700	41.666	26.660	27.025	2.396	58.390	8.866	0.000
255	12.750	41.830	35.340	35.686	2.470	55.500	6.921	0.000
256	12.800	41.994	89.640	89.717	2.438	12.390	2.717	0.000
257	12.850	42.158	133.200	133.341	0.000	22.520	0.000	0.000
258	12.900	42.322	320.900	321.072	0.000	27.480	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221643
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-7
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	12:53
CPT File:	13-53075_GP15-7.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722335.020
Northing / Lat:	4294324.359
Elevation:	143.780
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	4.100	4.110	0.001	1.570	0.024	27.800
2	0.100	0.328	20.360	20.394	0.000	5.520	0.000	32.400
3	0.150	0.492	33.240	33.252	0.009	1.900	0.027	42.600
4	0.200	0.656	47.110	47.116	0.172	0.970	0.365	36.700
5	0.250	0.820	46.310	46.375	0.207	10.470	0.446	50.700
6	0.300	0.984	43.120	43.161	0.174	6.560	0.403	59.800
7	0.350	1.148	36.700	36.746	0.216	7.390	0.588	78.000
8	0.400	1.312	22.290	22.394	0.288	16.600	1.286	86.800
9	0.450	1.476	17.160	17.192	0.380	5.070	2.210	93.000
10	0.500	1.640	20.000	20.022	0.395	3.600	1.973	86.800
11	0.550	1.804	27.040	27.066	0.368	4.130	1.360	86.000
12	0.600	1.968	50.760	50.822	0.498	9.880	0.980	95.800
13	0.650	2.133	73.970	73.981	0.911	1.750	1.231	101.900
14	0.700	2.297	96.400	96.407	0.891	1.070	0.924	95.900
15	0.750	2.461	99.280	99.288	0.719	1.220	0.724	107.400
16	0.800	2.625	108.030	108.041	0.767	1.740	0.710	97.200
17	0.850	2.789	102.720	102.737	0.828	2.690	0.806	85.400
18	0.900	2.953	98.710	98.724	0.915	2.220	0.927	91.600
19	0.950	3.117	93.090	93.080	1.340	-1.540	1.440	83.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	89.360	89.363	1.091	0.440	1.221	80.900
21	1.050	3.445	70.580	70.621	1.091	6.490	1.545	80.300
22	1.100	3.609	54.680	55.141	1.349	73.920	2.446	81.400
23	1.150	3.773	47.090	47.087	0.984	-0.520	2.090	74.300
24	1.200	3.937	19.250	19.331	0.789	13.010	4.081	83.300
25	1.250	4.101	16.470	16.513	0.537	6.950	3.252	90.100
26	1.300	4.265	15.180	15.241	0.469	9.810	3.077	73.500
27	1.350	4.429	13.050	13.060	0.413	1.640	3.162	75.300
28	1.400	4.593	15.460	15.438	0.930	-3.600	6.024	47.100
29	1.450	4.757	91.470	91.430	1.046	-6.410	1.144	58.100
30	1.500	4.921	36.990	36.984	1.272	-0.980	3.439	55.900
31	1.550	5.085	44.790	44.810	0.933	3.180	2.082	46.000
32	1.600	5.249	13.350	13.353	0.699	0.480	5.235	63.100
33	1.650	5.413	10.400	10.449	0.398	7.870	3.809	73.300
34	1.700	5.577	23.550	23.566	0.293	2.490	1.243	64.900
35	1.750	5.741	25.730	25.702	0.319	-4.430	1.241	54.000
36	1.800	5.905	32.210	32.181	0.496	-4.650	1.541	49.200
37	1.850	6.069	59.450	59.455	1.728	0.740	2.906	33.400
38	1.900	6.234	67.670	67.670	1.962	-0.070	2.899	40.500
39	1.950	6.398	47.540	47.539	1.477	-0.190	3.107	32.500
40	2.000	6.562	10.260	10.269	0.801	1.430	7.800	34.000
41	2.050	6.726	9.960	9.972	0.403	1.850	4.041	29.100
42	2.100	6.890	13.740	13.786	0.335	7.360	2.430	36.300
43	2.150	7.054	10.560	10.664	0.351	16.670	3.291	35.700
44	2.200	7.218	22.290	22.349	0.280	9.470	1.253	36.400
45	2.250	7.382	41.270	41.280	0.337	1.610	0.816	54.700
46	2.300	7.546	30.860	30.839	0.568	-3.290	1.842	49.100
47	2.350	7.710	22.000	22.044	0.503	7.030	2.282	66.100
48	2.400	7.874	27.120	27.127	0.596	1.170	2.197	69.000
49	2.450	8.038	29.830	29.853	0.580	3.760	1.943	81.100
50	2.500	8.202	34.970	34.978	0.646	1.280	1.847	88.100
51	2.550	8.366	33.450	33.431	0.714	-3.000	2.136	82.200
52	2.600	8.530	33.690	33.684	0.658	-1.030	1.953	76.500
53	2.650	8.694	33.290	33.243	0.766	-7.490	2.304	76.900
54	2.700	8.858	38.950	38.904	0.867	-7.350	2.229	78.600
55	2.750	9.022	44.800	44.821	0.814	3.310	1.816	74.100
56	2.800	9.186	75.600	75.616	1.289	2.630	1.705	76.000
57	2.850	9.350	85.580	85.665	1.600	13.680	1.868	80.500
58	2.900	9.514	133.470	133.507	1.981	5.890	1.484	85.000
59	2.950	9.678	115.720	115.684	2.209	-5.750	1.910	81.500
60	3.000	9.842	88.860	88.807	1.612	-8.410	1.815	81.700
61	3.050	10.006	100.740	100.691	1.280	-7.850	1.271	73.500
62	3.100	10.170	144.320	144.318	2.555	-0.280	1.770	50.600
63	3.150	10.335	89.840	89.839	2.915	-0.140	3.245	41.200
64	3.200	10.499	24.790	24.791	2.422	0.160	9.770	38.300
65	3.250	10.663	35.440	35.619	0.664	28.720	1.864	34.600
66	3.300	10.827	52.750	52.759	0.480	1.490	0.910	24.200
67	3.350	10.991	46.550	46.555	0.809	0.840	1.738	24.000
68	3.400	11.155	61.500	61.576	0.480	12.110	0.780	20.400
69	3.450	11.319	52.200	52.202	2.207	0.270	4.228	23.800
70	3.500	11.483	94.210	94.245	2.306	5.560	2.447	21.400
71	3.550	11.647	111.420	111.445	2.827	4.040	2.537	11.300
72	3.600	11.811	122.920	122.911	2.620	-1.480	2.132	12.100
73	3.650	11.975	91.830	91.852	2.488	3.600	2.709	13.800
74	3.700	12.139	72.270	72.376	1.663	17.000	2.298	23.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	101.690	101.726	1.587	5.780	1.560	19.200
76	3.800	12.467	53.460	53.461	1.340	0.110	2.507	20.200
77	3.850	12.631	23.070	23.091	0.818	3.400	3.542	23.600
78	3.900	12.795	56.140	56.159	0.645	2.970	1.149	19.900
79	3.950	12.959	63.570	63.807	1.005	38.020	1.575	20.200
80	4.000	13.123	44.370	44.640	1.274	43.310	2.854	15.700
81	4.050	13.287	41.070	41.103	0.961	5.310	2.338	15.600
82	4.100	13.451	31.320	31.318	0.874	-0.250	2.791	23.700
83	4.150	13.615	29.530	29.531	0.640	0.100	2.167	19.600
84	4.200	13.779	18.340	18.315	0.394	-3.930	2.151	18.800
85	4.250	13.943	13.910	13.922	0.248	1.990	1.781	18.400
86	4.300	14.107	15.610	15.610	0.152	-0.030	0.974	11.700
87	4.350	14.271	33.820	33.813	0.353	-1.080	1.044	17.200
88	4.400	14.436	56.020	56.066	0.565	7.430	1.008	24.900
89	4.450	14.600	17.280	17.437	0.791	25.120	4.536	22.500
90	4.500	14.764	20.240	20.244	0.811	0.690	4.006	24.600
91	4.550	14.928	27.390	27.392	0.917	0.320	3.348	29.200
92	4.600	15.092	52.190	52.202	1.511	1.980	2.895	32.600
93	4.650	15.256	41.990	41.974	1.497	-2.580	3.567	35.700
94	4.700	15.420	21.060	21.057	1.366	-0.410	6.487	44.300
95	4.750	15.584	32.860	32.859	0.733	-0.200	2.231	61.500
96	4.800	15.748	28.160	28.231	0.552	11.390	1.955	70.200
97	4.850	15.912	26.280	26.276	0.493	-0.690	1.876	69.600
98	4.900	16.076	23.930	23.925	0.413	-0.790	1.726	64.900
99	4.950	16.240	19.130	19.128	0.520	-0.310	2.719	79.100
100	5.000	16.404	19.450	19.461	0.317	1.700	1.629	66.500
101	5.050	16.568	24.690	24.666	0.329	-3.780	1.334	63.500
102	5.100	16.732	19.810	19.790	0.433	-3.240	2.188	62.300
103	5.150	16.896	21.920	21.910	0.581	-1.630	2.652	51.700
104	5.200	17.060	27.410	27.402	0.741	-1.290	2.704	52.600
105	5.250	17.224	60.380	60.382	0.936	0.370	1.550	42.400
106	5.300	17.388	106.470	106.506	1.262	5.760	1.185	29.200
107	5.350	17.552	178.710	178.788	1.779	12.450	0.995	36.500
108	5.400	17.716	74.150	74.118	1.954	-5.150	2.636	37.500
109	5.450	17.880	33.350	33.357	1.747	1.200	5.237	43.600
110	5.500	18.044	25.840	25.913	0.864	11.640	3.334	46.800
111	5.550	18.208	23.900	23.903	0.907	0.490	3.794	44.000
112	5.600	18.372	62.200	62.218	1.124	2.960	1.807	52.700
113	5.650	18.537	30.910	30.894	1.147	-2.620	3.713	48.600
114	5.700	18.701	19.600	19.609	1.039	1.430	5.299	45.500
115	5.750	18.865	20.480	20.499	0.621	3.030	3.029	38.600
116	5.800	19.029	23.230	23.211	0.727	-3.000	3.132	28.400
117	5.850	19.193	34.040	34.115	1.129	11.990	3.309	18.900
118	5.900	19.357	50.410	50.427	1.077	2.670	2.136	29.700
119	5.950	19.521	44.850	44.838	0.598	-1.940	1.334	26.500
120	6.000	19.685	25.990	25.969	1.444	-3.310	5.560	33.800
121	6.050	19.849	57.430	57.561	1.610	20.930	2.797	29.600
122	6.100	20.013	87.050	87.214	1.762	26.280	2.020	37.100
123	6.150	20.177	142.480	142.823	0.790	55.000	0.553	48.800
124	6.200	20.341	126.710	127.244	0.117	85.520	0.092	64.500
125	6.250	20.505	91.190	91.205	0.242	2.470	0.265	51.700
126	6.300	20.669	60.240	60.334	0.181	15.090	0.300	66.100
127	6.350	20.833	50.900	51.234	0.185	53.430	0.361	72.100
128	6.400	20.997	39.080	39.290	0.127	33.580	0.323	73.500
129	6.450	21.161	44.030	44.174	0.183	23.050	0.414	89.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	39.940	39.959	0.352	3.080	0.881	79.200
131	6.550	21.489	34.110	34.377	0.277	42.810	0.806	81.500
132	6.600	21.653	39.640	40.177	0.129	86.090	0.321	83.400
133	6.650	21.817	31.810	32.339	0.247	84.810	0.764	61.500
134	6.700	21.981	28.820	28.890	0.582	11.180	2.015	72.200
135	6.750	22.145	24.220	24.453	0.336	37.250	1.374	60.700
136	6.800	22.309	41.020	41.031	0.124	1.790	0.302	68.300
137	6.850	22.473	69.900	70.070	0.432	27.280	0.617	70.800
138	6.900	22.638	81.470	81.454	0.514	-2.630	0.631	83.300
139	6.950	22.802	73.890	73.959	0.222	11.040	0.300	82.600
140	7.000	22.966	41.940	41.985	0.073	7.200	0.174	81.500
141	7.050	23.130	31.250	31.311	0.114	9.810	0.364	94.000
142	7.100	23.294	31.980	32.122	0.200	22.800	0.623	96.200
143	7.150	23.458	29.530	29.774	0.138	39.140	0.463	90.800
144	7.200	23.622	34.370	34.491	0.107	19.370	0.310	91.400
145	7.250	23.786	29.980	30.132	0.098	24.290	0.325	87.700
146	7.300	23.950	28.070	28.138	0.139	10.930	0.494	91.300
147	7.350	24.114	30.740	30.851	0.203	17.860	0.658	93.900
148	7.400	24.278	31.410	31.576	0.462	26.640	1.463	86.300
149	7.450	24.442	34.360	34.688	0.550	52.560	1.586	99.200
150	7.500	24.606	40.630	41.138	0.692	81.320	1.682	100.500
151	7.550	24.770	40.850	41.487	0.782	102.020	1.885	95.500
152	7.600	24.934	45.150	45.969	0.723	131.260	1.573	91.200
153	7.650	25.098	50.590	51.460	0.780	139.360	1.516	79.000
154	7.700	25.262	59.590	60.642	1.200	168.550	1.979	71.500
155	7.750	25.426	89.430	90.555	1.650	180.130	1.822	75.100
156	7.800	25.590	130.460	132.078	1.952	259.190	1.478	61.500
157	7.850	25.754	199.650	199.859	1.700	33.520	0.851	62.600
158	7.900	25.918	222.200	222.248	0.619	7.610	0.279	74.800
159	7.950	26.082	166.490	166.533	0.834	6.900	0.501	76.500
160	8.000	26.246	129.690	129.692	0.498	0.380	0.384	80.300
161	8.050	26.410	83.120	83.485	0.331	58.540	0.396	85.900
162	8.100	26.574	66.230	66.542	0.365	49.970	0.549	82.100
163	8.150	26.739	50.670	50.975	0.298	48.900	0.585	71.300
164	8.200	26.903	52.310	52.721	0.428	65.890	0.812	61.300
165	8.250	27.067	65.290	65.393	0.564	16.560	0.862	67.600
166	8.300	27.231	60.740	60.748	0.706	1.240	1.162	67.000
167	8.350	27.395	73.200	73.702	0.793	80.430	1.076	59.700
168	8.400	27.559	82.140	82.794	0.810	104.750	0.978	63.300
169	8.450	27.723	66.560	66.889	0.740	52.660	1.106	68.600
170	8.500	27.887	66.100	67.150	0.752	168.160	1.120	59.300
171	8.550	28.051	67.550	68.254	0.459	112.700	0.672	53.400
172	8.600	28.215	73.080	73.679	0.510	95.940	0.692	52.400
173	8.650	28.379	62.830	63.008	0.227	28.540	0.360	36.000
174	8.700	28.543	66.850	66.862	0.225	1.960	0.337	32.900
175	8.750	28.707	58.410	58.463	0.185	8.420	0.316	26.000
176	8.800	28.871	47.310	47.321	0.285	1.770	0.602	21.800
177	8.850	29.035	39.000	39.025	0.272	3.930	0.697	14.300
178	8.900	29.199	32.730	32.753	0.519	3.740	1.585	18.000
179	8.950	29.363	37.330	37.354	0.816	3.840	2.185	15.300
180	9.000	29.527	66.270	66.329	1.279	9.460	1.928	10.500
181	9.050	29.691	121.980	122.073	1.526	14.900	1.250	9.700
182	9.100	29.855	94.720	94.826	1.167	17.010	1.231	11.800
183	9.150	30.019	105.640	105.677	0.836	5.880	0.791	7.000
184	9.200	30.183	119.820	119.924	0.729	16.620	0.608	9.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	52.340	52.608	1.425	42.910	2.709	10.100
186	9.300	30.511	71.110	71.713	1.655	96.620	2.308	12.000
187	9.350	30.675	126.610	127.074	2.567	74.270	2.020	11.000
188	9.400	30.840	117.340	117.551	1.688	33.740	1.436	10.400
189	9.450	31.004	175.270	175.360	0.898	14.340	0.512	15.300
190	9.500	31.168	199.220	199.245	0.506	3.940	0.254	16.400
191	9.550	31.332	173.530	173.595	0.591	10.490	0.340	20.300
192	9.600	31.496	137.100	137.220	0.801	19.230	0.584	30.300
193	9.650	31.660	135.640	135.760	0.483	19.250	0.356	30.100
194	9.700	31.824	130.360	130.665	0.932	48.840	0.713	29.000
195	9.750	31.988	115.720	115.807	1.978	14.010	1.708	30.400
196	9.800	32.152	129.860	130.043	0.782	29.340	0.601	36.500
197	9.850	32.316	204.010	204.210	0.728	32.010	0.356	34.300
198	9.900	32.480	76.600	76.590	0.403	-1.580	0.526	55.700
199	9.950	32.644	75.870	75.944	0.722	11.780	0.951	51.100
200	10.000	32.808	49.770	49.928	1.036	25.370	2.075	55.200
201	10.050	32.972	110.360	110.711	1.095	56.230	0.989	45.500
202	10.100	33.136	153.330	153.593	0.953	42.170	0.620	46.800
203	10.150	33.300	169.440	169.481	1.603	6.610	0.946	59.900
204	10.200	33.464	105.660	105.699	2.097	6.280	1.984	59.900
205	10.250	33.628	69.880	70.056	1.825	28.200	2.605	85.000
206	10.300	33.792	46.020	46.270	1.726	40.060	3.730	97.800
207	10.350	33.956	41.660	42.090	1.346	68.810	3.198	86.800
208	10.400	34.120	61.010	61.692	1.710	109.270	2.772	95.800
209	10.450	34.284	76.800	76.865	1.971	10.350	2.564	97.000
210	10.500	34.448	75.520	75.703	2.327	29.370	3.074	107.200
211	10.550	34.612	64.260	64.277	2.284	2.650	3.553	89.000
212	10.600	34.776	57.340	57.430	1.893	14.490	3.296	80.000
213	10.650	34.941	49.910	49.974	1.610	10.270	3.222	88.500
214	10.700	35.105	33.640	34.026	1.428	61.820	4.197	62.000
215	10.750	35.269	45.140	45.574	1.783	69.560	3.912	65.100
216	10.800	35.433	61.810	62.188	1.919	60.620	3.086	52.800
217	10.850	35.597	85.830	86.418	1.748	94.160	2.023	43.100
218	10.900	35.761	40.210	40.413	2.141	32.500	5.298	43.500
219	10.950	35.925	54.220	54.366	1.904	23.320	3.502	31.600
220	11.000	36.089	57.450	57.523	1.848	11.670	3.213	35.300
221	11.050	36.253	57.100	57.191	2.103	14.550	3.677	29.400
222	11.100	36.417	78.740	78.875	1.456	21.570	1.846	27.300
223	11.150	36.581	38.980	39.081	1.305	16.230	3.339	27.800
224	11.200	36.745	33.410	33.488	1.212	12.450	3.619	31.800
225	11.250	36.909	34.700	34.909	1.247	33.420	3.572	45.000
226	11.300	37.073	61.940	62.141	1.455	32.180	2.341	56.500
227	11.350	37.237	57.200	57.340	1.332	22.410	2.323	67.000
228	11.400	37.401	36.640	37.010	1.002	59.290	2.707	72.600
229	11.450	37.565	28.520	28.854	1.112	53.480	3.854	75.400
230	11.500	37.729	38.030	38.476	0.805	71.420	2.092	78.400
231	11.550	37.893	32.200	32.364	0.765	26.290	2.364	70.900
232	11.600	38.057	41.580	41.646	1.327	10.500	3.186	71.200
233	11.650	38.221	60.090	60.116	1.018	4.200	1.693	78.900
234	11.700	38.385	26.830	27.015	1.134	29.600	4.198	95.500
235	11.750	38.549	30.180	30.323	0.542	22.980	1.787	80.900
236	11.800	38.713	30.290	30.448	0.455	25.300	1.494	83.900
237	11.850	38.877	23.950	24.087	0.505	22.020	2.097	75.200
238	11.900	39.042	30.730	30.910	0.863	28.780	2.792	66.500
239	11.950	39.206	43.160	43.371	1.049	33.760	2.419	42.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	86.930	87.147	1.672	34.790	1.919	36.500
241	12.050	39.534	73.460	73.593	1.939	21.260	2.635	29.300
242	12.100	39.698	54.950	55.010	2.320	9.550	4.217	25.800
243	12.150	39.862	51.430	51.551	2.213	19.410	4.293	13.200
244	12.200	40.026	55.140	55.311	1.996	27.380	3.609	22.800
245	12.250	40.190	57.050	57.149	1.837	15.850	3.214	21.400
246	12.300	40.354	88.500	88.557	1.874	9.200	2.116	17.300
247	12.350	40.518	68.640	68.735	2.330	15.160	3.390	21.200
248	12.400	40.682	52.270	52.483	2.059	34.190	3.923	20.100
249	12.450	40.846	59.940	60.132	1.803	30.700	2.998	17.100
250	12.500	41.010	29.890	30.044	2.097	24.600	6.980	22.400
251	12.550	41.174	41.620	41.975	1.709	56.910	4.071	21.300
252	12.600	41.338	76.270	76.380	1.620	17.640	2.121	27.700
253	12.650	41.502	76.040	76.109	1.456	11.080	1.913	26.600
254	12.700	41.666	66.660	66.830	1.647	27.220	2.464	39.300
255	12.750	41.830	69.700	69.752	1.186	8.290	1.700	43.300
256	12.800	41.994	30.660	30.787	0.900	20.340	2.923	54.400
257	12.850	42.158	19.730	19.926	0.634	31.470	3.182	58.600
258	12.900	42.322	24.850	25.171	0.437	51.480	1.736	69.500
259	12.950	42.486	28.780	29.054	0.663	43.920	2.282	59.800
260	13.000	42.650	63.810	64.208	0.774	63.690	1.205	47.100
261	13.050	42.814	88.030	88.313	1.071	45.280	1.213	40.800
262	13.100	42.978	88.990	89.180	1.634	30.450	1.832	41.500
263	13.150	43.143	95.430	95.518	1.753	14.140	1.835	37.000
264	13.200	43.307	84.850	85.044	1.982	31.080	2.331	46.400
265	13.250	43.471	54.830	54.915	1.835	13.650	3.342	55.300
266	13.300	43.635	28.960	29.349	1.716	62.270	5.847	69.500
267	13.350	43.799	52.240	52.762	1.381	83.630	2.617	67.500
268	13.400	43.963	39.030	39.084	2.806	8.680	7.179	69.800
269	13.450	44.127	28.240	28.239	3.384	-0.230	11.984	70.800
270	13.500	44.291	167.150	167.221	1.653	11.310	0.989	68.900
271	13.550	44.455	183.500	183.569	2.151	11.050	1.172	68.000
272	13.600	44.619	114.940	115.020	3.454	12.880	3.003	83.500
273	13.650	44.783	79.610	79.685	3.802	12.050	4.771	68.600
274	13.700	44.947	58.490	58.682	1.713	30.760	2.919	78.600
275	13.750	45.111	44.220	44.458	0.954	38.080	2.146	91.500
276	13.800	45.275	47.880	47.886	0.873	1.000	1.823	90.000
277	13.850	45.439	22.730	22.788	0.833	9.360	3.655	86.200
278	13.900	45.603	21.300	21.494	0.642	31.120	2.987	99.600
279	13.950	45.767	23.470	23.698	0.448	36.560	1.890	92.100
280	14.000	45.931	21.550	21.761	0.469	33.820	2.155	89.900
281	14.050	46.095	18.450	18.681	0.496	36.940	2.655	92.200
282	14.100	46.259	25.430	25.654	0.480	35.850	1.871	88.400
283	14.150	46.423	46.540	46.668	0.628	20.440	1.346	98.400
284	14.200	46.587	53.540	53.624	0.760	13.500	1.417	86.100
285	14.250	46.751	34.820	34.915	0.847	15.290	2.426	84.200
286	14.300	46.915	25.280	25.662	0.899	61.210	3.503	90.100
287	14.350	47.079	22.610	23.072	0.873	73.930	3.784	83.700
288	14.400	47.244	65.190	65.636	0.726	71.500	1.106	71.900
289	14.450	47.408	52.440	52.655	1.312	34.440	2.492	68.300
290	14.500	47.572	67.450	67.538	1.765	14.090	2.613	65.400
291	14.550	47.736	46.980	47.127	1.431	23.470	3.037	61.700
292	14.600	47.900	66.590	66.950	1.452	57.600	2.169	50.400
293	14.650	48.064	109.700	110.071	2.166	59.400	1.968	44.900
294	14.700	48.228	100.750	100.794	3.051	7.000	3.027	46.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	91.820	92.079	3.454	41.500	3.751	46.500
296	14.800	48.556	77.430	77.506	3.039	12.240	3.921	42.200
297	14.850	48.720	108.270	108.316	2.388	7.310	2.205	58.700
298	14.900	48.884	80.020	80.073	1.952	8.540	2.438	69.800
299	14.950	49.048	52.960	53.217	1.578	41.160	2.965	81.400
300	15.000	49.212	51.010	51.218	1.095	33.240	2.138	82.900
301	15.050	49.376	54.310	54.535	0.947	36.060	1.736	80.800
302	15.100	49.540	46.200	46.411	0.964	33.720	2.077	87.200
303	15.150	49.704	39.140	39.395	0.927	40.860	2.353	94.300
304	15.200	49.868	44.020	44.387	0.860	58.850	1.937	78.600
305	15.250	50.032	49.080	49.348	0.886	42.970	1.795	89.600
306	15.300	50.196	49.380	49.608	0.908	36.530	1.830	88.600
307	15.350	50.360	55.190	55.469	0.808	44.750	1.457	91.600
308	15.400	50.524	44.480	44.576	0.662	15.410	1.485	87.400
309	15.450	50.688	32.790	32.920	0.540	20.890	1.640	92.900
310	15.500	50.852	25.800	25.983	0.667	29.250	2.567	74.100
311	15.550	51.016	30.530	30.808	0.553	44.510	1.795	71.000
312	15.600	51.180	66.600	66.681	1.179	12.910	1.768	78.400
313	15.650	51.345	37.200	37.403	1.074	32.540	2.871	71.200
314	15.700	51.509	25.980	26.194	0.904	34.270	3.451	67.400
315	15.750	51.673	22.970	23.193	0.597	35.770	2.574	72.400
316	15.800	51.837	21.990	22.201	0.344	33.790	1.549	65.800
317	15.850	52.001	19.130	19.297	0.983	26.780	5.094	56.400
318	15.900	52.165	21.130	21.310	0.884	28.790	4.148	45.100
319	15.950	52.329	42.380	42.509	0.710	20.730	1.670	44.400
320	16.000	52.493	52.770	52.866	0.871	15.430	1.648	39.800
321	16.050	52.657	42.050	42.177	0.528	20.300	1.252	39.200
322	16.100	52.821	33.400	33.542	0.617	22.720	1.839	36.500
323	16.150	52.985	20.230	20.301	1.029	11.330	5.069	34.500
324	16.200	53.149	32.090	32.352	1.041	41.950	3.218	29.400
325	16.250	53.313	83.020	83.171	0.879	24.120	1.057	33.700
326	16.300	53.477	35.210	35.339	1.324	20.670	3.747	31.900
327	16.350	53.641	73.720	73.993	2.157	43.720	2.915	39.500
328	16.400	53.805	96.190	96.334	1.702	23.070	1.767	43.400
329	16.450	53.969	34.040	34.125	1.447	13.620	4.240	46.000
330	16.500	54.133	9.340	9.453	0.658	18.030	6.961	43.100
331	16.550	54.297	6.580	6.672	0.364	14.790	5.455	0.000
332	16.600	54.461	38.080	38.176	0.731	15.450	1.915	0.000
333	16.650	54.625	46.850	46.957	3.073	17.200	6.544	0.000
334	16.700	54.789	109.930	110.050	3.355	19.160	3.049	0.000
335	16.750	54.953	55.600	55.674	1.140	11.870	2.048	0.000
336	16.800	55.117	49.520	49.611	3.589	14.510	7.234	0.000
337	16.850	55.281	101.390	101.501	2.532	17.850	2.495	0.000
338	16.900	55.446	37.700	37.794	0.655	14.990	1.733	0.000
339	16.950	55.610	76.700	76.823	1.918	19.740	2.497	0.000
340	17.000	55.774	60.710	60.826	2.142	18.520	3.522	0.000
341	17.050	55.938	48.840	49.002	2.116	26.020	4.318	0.000
342	17.100	56.102	63.890	64.049	0.899	25.410	1.404	0.000
343	17.150	56.266	66.840	66.979	0.838	22.240	1.251	0.000
344	17.200	56.430	70.640	70.793	0.936	24.570	1.322	0.000
345	17.250	56.594	76.450	76.617	0.000	26.720	0.000	0.000
346	17.300	56.758	64.520	64.702	0.000	29.180	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221644
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-15-8
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-22-2013
CPT Time:	12:53
CPT File:	13-53075_GP15-8.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722343.019
Northing / Lat:	4294313.066
Elevation:	144.286
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	15.080	15.094	0.002	2.210	0.013	28.100
2	0.100	0.328	21.400	21.404	0.001	0.650	0.005	48.700
3	0.150	0.492	30.140	30.147	0.013	1.120	0.043	59.900
4	0.200	0.656	37.240	37.255	0.010	2.350	0.027	69.000
5	0.250	0.820	42.870	42.914	0.017	7.010	0.040	90.200
6	0.300	0.984	12.420	12.449	0.059	4.710	0.474	101.700
7	0.350	1.148	13.350	13.379	0.131	4.630	0.979	120.400
8	0.400	1.312	17.310	17.315	0.133	0.830	0.768	115.400
9	0.450	1.476	22.700	22.707	0.247	1.100	1.088	129.500
10	0.500	1.640	28.260	28.264	0.447	0.700	1.581	142.600
11	0.550	1.804	33.830	33.839	0.642	1.440	1.897	138.700
12	0.600	1.968	46.520	46.566	0.727	7.320	1.561	133.800
13	0.650	2.133	46.780	46.799	0.904	3.110	1.932	142.100
14	0.700	2.297	43.630	43.646	0.918	2.560	2.103	145.400
15	0.750	2.461	42.270	42.259	0.876	-1.830	2.073	133.100
16	0.800	2.625	32.010	32.005	0.899	-0.820	2.809	143.100
17	0.850	2.789	22.980	22.967	0.772	-2.050	3.361	143.100
18	0.900	2.953	19.390	19.382	0.728	-1.360	3.756	143.900
19	0.950	3.117	19.330	19.303	0.618	-4.350	3.202	120.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	25.070	25.046	0.639	-3.820	2.551	114.900
21	1.050	3.445	35.480	35.471	0.646	-1.380	1.821	107.200
22	1.100	3.609	50.150	50.120	0.719	-4.880	1.435	102.900
23	1.150	3.773	57.440	57.365	0.776	-12.070	1.353	92.700
24	1.200	3.937	53.300	53.216	0.793	-13.430	1.490	89.000
25	1.250	4.101	49.820	49.742	0.802	-12.510	1.612	89.900
26	1.300	4.265	49.900	49.837	0.858	-10.170	1.722	85.900
27	1.350	4.429	47.010	46.941	0.933	-11.080	1.988	90.800
28	1.400	4.593	41.610	41.518	0.882	-14.800	2.124	84.100
29	1.450	4.757	32.860	32.757	0.803	-16.550	2.451	85.800
30	1.500	4.921	23.940	23.825	0.664	-18.430	2.787	75.800
31	1.550	5.085	20.640	20.523	0.537	-18.780	2.617	62.500
32	1.600	5.249	16.830	16.719	0.436	-17.790	2.608	58.400
33	1.650	5.413	21.750	21.655	0.358	-15.190	1.653	46.800
34	1.700	5.577	21.680	21.673	0.404	-1.080	1.864	46.000
35	1.750	5.741	23.870	23.864	0.319	-0.990	1.337	41.000
36	1.800	5.905	42.160	42.147	0.430	-2.030	1.020	52.500
37	1.850	6.069	65.470	65.465	0.474	-0.740	0.724	64.700
38	1.900	6.234	20.720	20.767	0.402	7.480	1.936	76.000
39	1.950	6.398	15.940	16.481	0.354	86.670	2.148	73.500
40	2.000	6.562	13.330	13.583	0.294	40.580	2.164	93.400
41	2.050	6.726	12.840	13.013	0.357	27.650	2.743	85.800
42	2.100	6.890	12.750	12.798	0.415	7.760	3.243	72.200
43	2.150	7.054	12.110	12.121	0.378	1.830	3.118	54.000
44	2.200	7.218	22.830	22.825	0.318	-0.740	1.393	53.200
45	2.250	7.382	38.260	38.276	0.317	2.580	0.828	42.800
46	2.300	7.546	49.040	49.124	0.430	13.420	0.875	29.200
47	2.350	7.710	35.870	35.890	0.587	3.170	1.636	40.200
48	2.400	7.874	32.260	32.248	0.658	-1.910	2.040	31.100
49	2.450	8.038	26.610	26.998	0.694	62.170	2.571	36.900
50	2.500	8.202	87.120	87.080	0.789	-6.340	0.906	55.600
51	2.550	8.366	49.050	49.056	0.661	0.930	1.347	54.500
52	2.600	8.530	45.560	45.634	0.568	11.880	1.245	65.400
53	2.650	8.694	57.280	57.260	0.580	-3.260	1.013	64.600
54	2.700	8.858	58.610	58.591	0.770	-3.120	1.314	51.500
55	2.750	9.022	52.900	52.860	1.051	-6.380	1.988	60.100
56	2.800	9.186	83.870	83.879	0.998	1.490	1.190	63.700
57	2.850	9.350	39.980	40.384	0.905	64.720	2.241	66.500
58	2.900	9.514	22.590	22.644	0.764	8.710	3.374	75.000
59	2.950	9.678	17.060	16.975	0.449	-13.600	2.645	67.300
60	3.000	9.842	15.210	15.145	0.330	-10.410	2.179	70.500
61	3.050	10.006	13.030	13.013	0.302	-2.670	2.321	79.100
62	3.100	10.170	13.310	13.319	0.298	1.480	2.237	90.500
63	3.150	10.335	15.730	15.729	0.323	-0.160	2.054	94.900
64	3.200	10.499	17.990	17.975	0.374	-2.470	2.081	104.100
65	3.250	10.663	15.160	15.122	0.434	-6.080	2.870	83.700
66	3.300	10.827	15.910	15.872	0.495	-6.090	3.119	107.700
67	3.350	10.991	17.270	17.240	0.585	-4.830	3.393	88.800
68	3.400	11.155	18.250	18.217	0.589	-5.360	3.233	101.500
69	3.450	11.319	19.470	19.436	0.582	-5.430	2.994	94.800
70	3.500	11.483	21.950	21.959	0.571	1.400	2.600	96.100
71	3.550	11.647	31.710	31.756	0.660	7.390	2.078	100.200
72	3.600	11.811	38.900	38.909	0.841	1.440	2.161	97.000
73	3.650	11.975	42.940	42.925	1.067	-2.440	2.486	91.800
74	3.700	12.139	40.250	40.201	1.181	-7.840	2.938	105.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	34.370	34.319	1.114	-8.120	3.246	101.300
76	3.800	12.467	31.380	31.326	1.082	-8.730	3.454	106.800
77	3.850	12.631	25.750	25.682	0.982	-10.920	3.824	86.600
78	3.900	12.795	32.950	32.893	0.928	-9.150	2.821	84.800
79	3.950	12.959	90.750	90.713	0.901	-5.890	0.993	84.500
80	4.000	13.123	119.660	119.623	1.045	-5.900	0.874	86.800
81	4.050	13.287	140.580	140.548	1.400	-5.100	0.996	87.800
82	4.100	13.451	149.280	149.248	2.064	-5.150	1.383	84.700
83	4.150	13.615	136.170	136.148	2.535	-3.560	1.862	93.400
84	4.200	13.779	98.900	98.863	2.913	-5.850	2.946	86.700
85	4.250	13.943	65.920	65.872	2.924	-7.690	4.439	65.900
86	4.300	14.107	69.880	69.837	2.518	-6.810	3.606	64.600
87	4.350	14.271	82.010	82.070	2.551	9.660	3.108	58.700
88	4.400	14.436	78.640	78.736	2.081	15.370	2.643	47.600
89	4.450	14.600	58.160	58.192	1.662	5.100	2.856	67.700
90	4.500	14.764	40.950	40.964	1.081	2.320	2.639	64.100
91	4.550	14.928	30.060	30.055	0.867	-0.870	2.885	76.100
92	4.600	15.092	40.640	40.731	0.894	14.530	2.195	74.600
93	4.650	15.256	44.980	44.968	0.742	-1.930	1.650	71.600
94	4.700	15.420	32.620	32.592	0.815	-4.560	2.501	65.200
95	4.750	15.584	28.150	28.135	0.788	-2.480	2.801	55.500
96	4.800	15.748	41.860	41.850	0.815	-1.670	1.947	41.700
97	4.850	15.912	50.540	50.570	0.861	4.830	1.703	41.500
98	4.900	16.076	58.200	58.204	0.712	0.670	1.223	33.600
99	4.950	16.240	31.430	31.418	0.566	-1.930	1.802	32.900
100	5.000	16.404	22.690	22.733	0.454	6.870	1.997	43.600
101	5.050	16.568	16.620	16.634	0.284	2.300	1.707	46.100
102	5.100	16.732	25.440	25.438	0.167	-0.380	0.657	46.100
103	5.150	16.896	20.480	20.477	0.120	-0.550	0.586	40.900
104	5.200	17.060	17.540	17.539	0.077	-0.220	0.439	47.400
105	5.250	17.224	10.970	10.967	0.111	-0.500	1.012	58.100
106	5.300	17.388	11.030	11.027	0.108	-0.510	0.979	60.300
107	5.350	17.552	9.700	9.696	0.107	-0.610	1.104	57.200
108	5.400	17.716	4.590	4.579	0.069	-1.700	1.507	45.400
109	5.450	17.880	4.080	4.076	0.013	-0.640	0.319	53.200
110	5.500	18.044	8.760	8.758	0.060	-0.290	0.685	46.700
111	5.550	18.208	11.840	11.837	0.057	-0.550	0.482	43.900
112	5.600	18.372	16.520	16.518	0.055	-0.350	0.333	45.000
113	5.650	18.537	19.950	19.965	0.157	2.330	0.786	37.200
114	5.700	18.701	30.800	30.805	0.491	0.840	1.594	47.400
115	5.750	18.865	43.550	43.565	0.637	2.470	1.462	41.100
116	5.800	19.029	55.260	55.259	0.766	-0.100	1.386	36.400
117	5.850	19.193	46.740	46.771	0.893	5.020	1.909	36.500
118	5.900	19.357	45.710	45.764	0.963	8.650	2.104	35.700
119	5.950	19.521	47.540	47.552	0.764	1.890	1.607	33.900
120	6.000	19.685	49.170	49.169	0.850	-0.150	1.729	35.500
121	6.050	19.849	55.900	55.921	0.828	3.430	1.481	43.100
122	6.100	20.013	64.390	64.450	1.031	9.690	1.600	43.100
123	6.150	20.177	76.600	76.632	1.287	5.170	1.679	53.500
124	6.200	20.341	64.530	64.633	1.324	16.500	2.048	72.600
125	6.250	20.505	40.590	40.670	1.341	12.840	3.297	75.600
126	6.300	20.669	52.490	52.649	1.382	25.530	2.625	75.400
127	6.350	20.833	52.400	52.492	1.321	14.720	2.517	77.100
128	6.400	20.997	41.500	41.522	1.207	3.580	2.907	67.300
129	6.450	21.161	42.760	42.722	1.267	-6.130	2.966	61.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	59.800	59.777	1.515	-3.750	2.534	53.800
131	6.550	21.489	30.490	30.505	1.292	2.370	4.235	47.700
132	6.600	21.653	20.090	20.186	1.099	15.310	5.444	55.800
133	6.650	21.817	23.340	23.545	0.720	32.870	3.058	36.000
134	6.700	21.981	22.140	22.146	0.630	0.920	2.845	35.200
135	6.750	22.145	16.750	16.747	0.683	-0.450	4.078	26.000
136	6.800	22.309	26.440	26.413	0.613	-4.380	2.321	32.000
137	6.850	22.473	22.520	22.521	0.605	0.180	2.686	25.200
138	6.900	22.638	29.670	29.696	0.716	4.160	2.411	23.900
139	6.950	22.802	29.930	29.929	0.815	-0.150	2.723	22.200
140	7.000	22.966	34.060	34.159	0.814	15.780	2.383	27.600
141	7.050	23.130	43.430	43.609	0.597	28.640	1.369	37.800
142	7.100	23.294	35.030	35.038	0.629	1.270	1.795	39.500
143	7.150	23.458	16.000	15.976	0.817	-3.770	5.114	46.400
144	7.200	23.622	20.640	20.711	0.605	11.450	2.921	59.200
145	7.250	23.786	59.080	59.081	0.943	0.190	1.596	64.600
146	7.300	23.950	29.680	29.665	0.907	-2.410	3.057	78.600
147	7.350	24.114	15.150	15.215	0.852	10.370	5.600	74.000
148	7.400	24.278	17.600	17.778	0.565	28.590	3.178	88.500
149	7.450	24.442	16.230	16.465	0.576	37.580	3.498	75.600
150	7.500	24.606	14.650	14.835	0.664	29.700	4.476	63.500
151	7.550	24.770	17.150	17.227	0.483	12.330	2.804	45.800
152	7.600	24.934	29.210	29.258	0.688	7.690	2.351	46.900
153	7.650	25.098	29.200	29.212	0.680	1.880	2.328	42.200
154	7.700	25.262	30.200	30.281	0.806	13.040	2.662	23.400
155	7.750	25.426	50.600	50.649	0.902	7.800	1.781	28.400
156	7.800	25.590	49.400	49.453	1.234	8.410	2.495	29.600
157	7.850	25.754	67.560	67.667	1.358	17.170	2.007	28.800
158	7.900	25.918	82.410	82.462	1.566	8.270	1.899	33.300
159	7.950	26.082	71.310	71.315	1.845	0.880	2.587	25.700
160	8.000	26.246	84.940	84.924	2.026	-2.630	2.386	28.200
161	8.050	26.410	59.550	59.596	2.293	7.350	3.848	31.500
162	8.100	26.574	33.600	33.931	1.850	53.050	5.452	33.500
163	8.150	26.739	27.480	27.972	1.432	78.830	5.119	25.700
164	8.200	26.903	20.770	21.042	0.873	43.540	4.149	28.100
165	8.250	27.067	25.280	25.522	0.849	38.800	3.327	29.200
166	8.300	27.231	38.280	38.510	0.846	36.770	2.197	0.000
167	8.350	27.395	41.710	41.938	1.088	36.550	2.594	0.000
168	8.400	27.559	31.310	31.349	1.055	6.210	3.365	0.000
169	8.450	27.723	24.970	25.507	0.932	86.090	3.654	0.000
170	8.500	27.887	23.820	24.330	0.766	81.640	3.148	0.000
171	8.550	28.051	23.370	23.773	0.803	64.580	3.378	0.000
172	8.600	28.215	23.130	23.615	0.797	77.690	3.375	0.000
173	8.650	28.379	22.770	23.448	2.109	108.640	8.994	0.000
174	8.700	28.543	23.450	24.252	2.769	128.480	11.418	0.000
175	8.750	28.707	113.630	114.094	2.527	74.250	2.215	0.000
176	8.800	28.871	328.190	328.203	1.159	2.030	0.353	0.000
177	8.850	29.035	373.160	373.176	1.210	2.620	0.324	0.000
178	8.900	29.199	383.610	383.633	1.206	3.730	0.314	0.000
179	8.950	29.363	394.040	394.064	2.123	3.880	0.539	0.000
180	9.000	29.527	392.000	392.025	0.000	3.930	0.000	0.000
181	9.050	29.691	455.680	455.710	0.000	4.800	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221646
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-1
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	14:42
CPT File:	13-53075_GP16-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722295.422
Northing / Lat:	4294417.802
Elevation:	137.396
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	4.250	4.413	0.002	26.160	0.045	30.400
2	0.100	0.328	7.600	7.642	0.007	6.650	0.092	42.200
3	0.150	0.492	14.420	14.471	0.001	8.220	0.007	49.500
4	0.200	0.656	18.680	18.722	0.175	6.760	0.935	70.900
5	0.250	0.820	69.120	69.187	0.231	10.710	0.334	75.400
6	0.300	0.984	43.580	43.794	0.386	34.250	0.881	82.900
7	0.350	1.148	43.700	43.731	0.527	4.910	1.205	94.000
8	0.400	1.312	48.940	48.961	0.565	3.320	1.154	92.500
9	0.450	1.476	63.410	63.443	0.718	5.290	1.132	87.300
10	0.500	1.640	90.940	90.980	1.003	6.390	1.102	106.200
11	0.550	1.804	97.250	97.314	1.173	10.320	1.205	109.800
12	0.600	1.968	92.730	92.850	1.258	19.270	1.355	103.800
13	0.650	2.133	99.000	99.046	1.370	7.390	1.383	108.000
14	0.700	2.297	110.990	111.037	1.326	7.600	1.194	107.900
15	0.750	2.461	109.370	109.415	1.597	7.170	1.460	109.400
16	0.800	2.625	125.750	125.792	1.874	6.680	1.490	112.800
17	0.850	2.789	132.480	132.524	2.320	7.050	1.751	103.300
18	0.900	2.953	127.650	127.684	2.674	5.390	2.094	95.400
19	0.950	3.117	125.570	125.602	2.879	5.170	2.292	102.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	118.790	118.821	2.854	4.970	2.402	103.500
21	1.050	3.445	110.630	110.658	2.650	4.530	2.395	89.800
22	1.100	3.609	100.130	100.158	2.396	4.430	2.392	93.900
23	1.150	3.773	80.860	80.883	2.291	3.740	2.832	104.900
24	1.200	3.937	59.530	59.564	2.149	5.490	3.608	98.900
25	1.250	4.101	54.120	54.156	1.642	5.820	3.032	109.500
26	1.300	4.265	51.430	51.466	1.412	5.710	2.744	94.800
27	1.350	4.429	51.510	51.520	1.187	1.650	2.304	101.000
28	1.400	4.593	45.840	45.845	1.113	0.860	2.428	84.300
29	1.450	4.757	36.840	36.845	1.054	0.740	2.861	78.200
30	1.500	4.921	37.940	37.958	0.896	2.940	2.360	98.300
31	1.550	5.085	34.800	34.815	0.829	2.450	2.381	95.700
32	1.600	5.249	33.040	33.074	0.789	5.380	2.386	92.900
33	1.650	5.413	30.170	30.187	0.745	2.700	2.468	93.400
34	1.700	5.577	27.580	27.587	0.578	1.080	2.095	95.600
35	1.750	5.741	26.320	26.332	0.552	1.910	2.096	84.200
36	1.800	5.905	25.500	25.503	0.497	0.410	1.949	95.400
37	1.850	6.069	24.540	24.542	0.525	0.300	2.139	95.300
38	1.900	6.234	25.390	25.389	0.544	-0.150	2.143	88.800
39	1.950	6.398	18.260	18.263	0.493	0.450	2.699	98.000
40	2.000	6.562	16.970	16.966	0.414	-0.590	2.440	98.500
41	2.050	6.726	13.840	13.824	0.343	-2.630	2.481	100.500
42	2.100	6.890	10.340	10.329	0.241	-1.830	2.333	96.800
43	2.150	7.054	9.520	9.607	0.238	13.910	2.477	90.300
44	2.200	7.218	9.940	10.000	0.265	9.620	2.650	153.800
45	2.250	7.382	10.070	10.117	0.281	7.460	2.778	92.500
46	2.300	7.546	11.380	11.429	0.215	7.920	1.881	83.400
47	2.350	7.710	12.930	12.950	0.206	3.190	1.591	79.000
48	2.400	7.874	10.660	10.675	0.151	2.430	1.414	101.000
49	2.450	8.038	11.030	11.073	0.170	6.920	1.535	82.600
50	2.500	8.202	13.990	14.088	0.205	15.750	1.455	95.300
51	2.550	8.366	14.130	14.175	0.293	7.250	2.067	93.400
52	2.600	8.530	14.200	14.255	0.428	8.890	3.002	87.000
53	2.650	8.694	16.200	16.232	0.454	5.050	2.797	106.600
54	2.700	8.858	16.690	16.698	0.468	1.240	2.803	100.700
55	2.750	9.022	14.300	14.306	0.396	1.020	2.768	87.600
56	2.800	9.186	15.360	15.364	0.417	0.690	2.714	98.000
57	2.850	9.350	15.280	15.288	0.440	1.300	2.878	93.700
58	2.900	9.514	12.090	12.108	0.431	2.840	3.560	95.000
59	2.950	9.678	12.010	12.038	0.441	4.520	3.663	104.100
60	3.000	9.842	2.020	2.040	0.417	3.250	20.438	103.100
61	3.050	10.006	9.460	9.471	0.465	1.830	4.910	99.400
62	3.100	10.170	8.390	8.401	0.421	1.700	5.012	95.600
63	3.150	10.335	9.770	9.801	0.330	4.920	3.367	89.600
64	3.200	10.499	15.150	15.202	0.272	8.290	1.789	96.200
65	3.250	10.663	14.540	14.543	0.217	0.520	1.492	99.300
66	3.300	10.827	12.610	12.614	0.243	0.690	1.926	97.200
67	3.350	10.991	14.920	14.955	0.317	5.560	2.120	95.100
68	3.400	11.155	16.890	16.945	0.364	8.850	2.148	96.500
69	3.450	11.319	16.370	16.434	0.332	10.220	2.020	95.000
70	3.500	11.483	14.750	14.822	0.369	11.520	2.490	93.500
71	3.550	11.647	13.820	13.898	0.427	12.510	3.072	99.600
72	3.600	11.811	14.190	14.280	0.474	14.440	3.319	96.600
73	3.650	11.975	13.600	13.658	0.530	9.370	3.880	83.500
74	3.700	12.139	13.220	13.267	0.602	7.490	4.538	104.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	14.200	14.244	0.659	7.100	4.626	100.900
76	3.800	12.467	16.110	16.177	0.675	10.710	4.173	96.400
77	3.850	12.631	19.460	19.541	0.700	12.920	3.582	87.300
78	3.900	12.795	21.070	21.127	0.743	9.070	3.517	98.000
79	3.950	12.959	21.500	21.515	0.775	2.340	3.602	95.700
80	4.000	13.123	20.540	20.527	0.730	-2.130	3.556	96.000
81	4.050	13.287	18.830	18.809	0.654	-3.300	3.477	98.100
82	4.100	13.451	18.460	18.443	0.531	-2.730	2.879	97.600
83	4.150	13.615	23.500	23.489	0.429	-1.770	1.826	101.700
84	4.200	13.779	27.000	26.989	0.361	-1.760	1.338	105.600
85	4.250	13.943	27.840	27.850	0.311	1.580	1.117	98.000
86	4.300	14.107	29.030	29.055	0.293	3.980	1.008	96.000
87	4.350	14.271	29.600	29.628	0.304	4.460	1.026	105.900
88	4.400	14.436	29.360	29.389	0.315	4.640	1.072	105.100
89	4.450	14.600	28.650	28.677	0.341	4.380	1.189	96.300
90	4.500	14.764	26.390	26.416	0.291	4.150	1.102	89.600
91	4.550	14.928	22.610	22.635	0.326	3.950	1.440	93.900
92	4.600	15.092	18.710	18.730	0.343	3.250	1.831	88.300
93	4.650	15.256	16.690	16.699	0.324	1.520	1.940	95.700
94	4.700	15.420	17.750	17.764	0.284	2.310	1.599	95.000
95	4.750	15.584	17.340	17.346	0.238	0.940	1.372	86.300
96	4.800	15.748	18.350	18.351	0.244	0.160	1.330	91.000
97	4.850	15.912	19.770	19.786	0.249	2.580	1.258	89.600
98	4.900	16.076	18.690	18.696	0.243	0.890	1.300	98.900
99	4.950	16.240	18.550	18.559	0.229	1.470	1.234	88.000
100	5.000	16.404	15.960	15.967	0.166	1.180	1.040	80.100
101	5.050	16.568	11.880	11.900	0.134	3.160	1.126	95.800
102	5.100	16.732	10.870	10.921	0.145	8.150	1.328	97.600
103	5.150	16.896	11.580	11.657	0.296	12.350	2.539	96.700
104	5.200	17.060	11.640	11.738	0.369	15.740	3.144	83.200
105	5.250	17.224	12.740	12.808	0.387	10.880	3.022	92.500
106	5.300	17.388	11.890	11.991	0.410	16.160	3.419	101.800
107	5.350	17.552	13.990	14.184	0.361	31.070	2.545	94.200
108	5.400	17.716	19.610	19.670	0.277	9.650	1.408	84.100
109	5.450	17.880	18.470	18.468	0.366	-0.380	1.982	83.800
110	5.500	18.044	18.290	18.355	0.244	10.490	1.329	93.900
111	5.550	18.208	46.640	46.681	0.269	6.550	0.576	93.200
112	5.600	18.372	56.950	56.944	0.345	-0.990	0.606	83.600
113	5.650	18.537	57.040	57.019	0.394	-3.410	0.691	88.100
114	5.700	18.701	54.690	54.677	0.440	-2.070	0.805	78.900
115	5.750	18.865	55.020	55.012	0.416	-1.220	0.756	77.900
116	5.800	19.029	50.360	50.342	0.509	-2.900	1.011	91.600
117	5.850	19.193	37.200	37.162	0.721	-6.020	1.940	87.500
118	5.900	19.357	27.330	27.310	0.613	-3.180	2.245	91.100
119	5.950	19.521	37.660	37.734	0.557	11.900	1.476	91.900
120	6.000	19.685	35.620	35.621	0.639	0.090	1.794	90.500
121	6.050	19.849	58.420	58.450	0.573	4.880	0.980	82.600
122	6.100	20.013	88.520	88.529	0.724	1.420	0.818	86.900
123	6.150	20.177	93.600	93.589	0.812	-1.810	0.868	70.400
124	6.200	20.341	92.610	92.609	0.896	-0.180	0.968	69.300
125	6.250	20.505	90.360	90.368	0.952	1.250	1.053	72.400
126	6.300	20.669	86.770	86.779	0.963	1.480	1.110	73.900
127	6.350	20.833	81.700	81.710	0.924	1.590	1.131	83.300
128	6.400	20.997	76.930	76.942	0.862	1.900	1.120	74.000
129	6.450	21.161	69.270	69.278	0.797	1.210	1.150	76.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	61.930	61.929	0.505	-0.120	0.815	67.200
131	6.550	21.489	53.770	53.767	0.526	-0.530	0.978	83.800
132	6.600	21.653	47.450	47.485	0.525	5.550	1.106	81.200
133	6.650	21.817	49.840	49.867	0.475	4.360	0.953	81.700
134	6.700	21.981	52.690	52.696	0.421	1.040	0.799	76.800
135	6.750	22.145	56.970	56.959	0.390	-1.750	0.685	77.400
136	6.800	22.309	58.340	58.317	0.410	-3.640	0.703	74.400
137	6.850	22.473	57.740	57.714	0.409	-4.110	0.709	80.100
138	6.900	22.638	58.360	58.336	0.418	-3.790	0.717	68.400
139	6.950	22.802	55.870	55.845	0.424	-3.970	0.759	77.200
140	7.000	22.966	53.500	53.478	0.443	-3.580	0.828	73.200
141	7.050	23.130	50.190	50.174	0.464	-2.490	0.925	71.300
142	7.100	23.294	46.190	46.180	0.492	-1.550	1.065	81.500
143	7.150	23.458	43.880	43.876	0.480	-0.570	1.094	74.400
144	7.200	23.622	43.030	43.030	0.440	0.030	1.023	78.500
145	7.250	23.786	44.140	44.142	0.400	0.250	0.906	85.500
146	7.300	23.950	46.370	46.372	0.361	0.370	0.778	68.800
147	7.350	24.114	48.040	48.036	0.380	-0.680	0.791	76.900
148	7.400	24.278	48.120	48.105	0.414	-2.430	0.861	73.000
149	7.450	24.442	46.740	46.726	0.432	-2.250	0.925	85.800
150	7.500	24.606	48.590	48.579	0.308	-1.720	0.634	69.200
151	7.550	24.770	43.880	43.859	0.363	-3.290	0.828	80.000
152	7.600	24.934	41.380	41.393	0.351	2.120	0.848	83.000
153	7.650	25.098	41.400	41.395	0.343	-0.810	0.829	83.700
154	7.700	25.262	38.240	38.210	0.344	-4.780	0.900	78.400
155	7.750	25.426	35.310	35.275	0.346	-5.550	0.981	80.100
156	7.800	25.590	31.050	31.020	0.402	-4.880	1.296	76.900
157	7.850	25.754	33.600	33.581	0.356	-3.120	1.060	77.000
158	7.900	25.918	48.220	48.206	0.388	-2.190	0.805	77.100
159	7.950	26.082	89.940	89.919	0.393	-3.290	0.437	60.900
160	8.000	26.246	111.820	111.780	0.493	-6.400	0.441	56.100
161	8.050	26.410	120.860	120.811	0.604	-7.900	0.500	52.200
162	8.100	26.574	133.650	133.608	0.829	-6.780	0.620	46.600
163	8.150	26.739	148.370	148.343	1.047	-4.290	0.706	46.000
164	8.200	26.903	160.190	160.185	1.172	-0.800	0.732	35.800
165	8.250	27.067	180.690	180.708	1.294	2.870	0.716	49.300
166	8.300	27.231	205.710	205.752	1.411	6.680	0.686	46.200
167	8.350	27.395	244.240	244.303	1.655	10.140	0.677	41.300
168	8.400	27.559	245.490	245.560	1.800	11.260	0.733	44.700
169	8.450	27.723	248.870	248.941	2.328	11.340	0.935	49.000
170	8.500	27.887	240.280	240.348	1.630	10.950	0.678	44.700
171	8.550	28.051	177.720	177.776	1.687	8.920	0.949	47.200
172	8.600	28.215	158.400	158.449	1.381	7.880	0.872	52.600
173	8.650	28.379	146.420	146.478	1.100	9.270	0.751	46.800
174	8.700	28.543	138.130	138.192	0.918	9.870	0.664	45.100
175	8.750	28.707	132.530	132.595	0.806	10.380	0.608	43.100
176	8.800	28.871	126.480	126.546	0.676	10.620	0.534	43.200
177	8.850	29.035	116.880	116.944	0.602	10.330	0.515	44.900
178	8.900	29.199	109.460	109.530	0.527	11.190	0.481	43.900
179	8.950	29.363	102.700	102.771	0.450	11.450	0.438	0.000
180	9.000	29.527	92.200	92.270	0.400	11.160	0.434	0.000
181	9.050	29.691	73.640	73.707	0.358	10.750	0.486	0.000
182	9.100	29.855	59.050	59.127	0.424	12.270	0.717	0.000
183	9.150	30.019	51.460	51.548	0.470	14.110	0.912	0.000
184	9.200	30.183	40.020	40.118	0.489	15.660	1.219	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	46.640	46.714	0.464	11.860	0.993	0.000
186	9.300	30.511	51.640	51.665	0.355	3.960	0.687	0.000
187	9.350	30.675	53.830	53.806	0.302	-3.860	0.561	0.000
188	9.400	30.840	55.340	55.298	0.324	-6.660	0.586	0.000
189	9.450	31.004	53.070	53.025	0.406	-7.250	0.766	0.000
190	9.500	31.168	53.030	52.995	0.349	-5.630	0.659	0.000
191	9.550	31.332	56.260	56.266	0.557	0.970	0.990	0.000
192	9.600	31.496	66.180	66.244	1.037	10.240	1.565	0.000
193	9.650	31.660	89.920	89.921	0.000	0.090	0.000	0.000
194	9.700	31.824	391.240	391.260	0.000	3.240	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221648
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-2
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	14:08
CPT File:	13-53075_GP16-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722296.365
Northing / Lat:	4294409.069
Elevation:	137.988
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	10.890	10.907	0.002	2.740	0.018	35.200
2	0.100	0.328	11.480	11.494	0.003	2.180	0.026	41.000
3	0.150	0.492	14.460	14.475	0.012	2.450	0.083	52.000
4	0.200	0.656	17.810	17.818	0.030	1.250	0.168	48.700
5	0.250	0.820	33.340	33.347	0.108	1.080	0.324	68.200
6	0.300	0.984	75.790	75.797	0.223	1.140	0.294	72.200
7	0.350	1.148	29.800	29.832	0.374	5.110	1.254	80.600
8	0.400	1.312	29.570	29.599	0.486	4.700	1.642	88.800
9	0.450	1.476	27.240	27.265	0.660	4.060	2.421	87.000
10	0.500	1.640	29.500	29.512	0.835	1.900	2.829	97.300
11	0.550	1.804	48.920	48.934	1.061	2.230	2.168	115.800
12	0.600	1.968	51.890	51.904	1.212	2.320	2.335	99.500
13	0.650	2.133	48.810	48.823	1.255	2.050	2.571	108.900
14	0.700	2.297	57.750	57.762	1.152	1.880	1.994	105.700
15	0.750	2.461	83.660	83.672	1.269	1.930	1.517	113.600
16	0.800	2.625	97.010	97.019	1.348	1.440	1.389	104.800
17	0.850	2.789	102.020	102.029	1.606	1.410	1.574	100.900
18	0.900	2.953	99.250	99.260	2.037	1.550	2.052	106.600
19	0.950	3.117	89.890	89.899	2.134	1.400	2.374	109.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	80.060	80.067	2.184	1.090	2.728	102.600
21	1.050	3.445	66.810	66.815	2.095	0.780	3.136	101.700
22	1.100	3.609	58.660	58.664	1.968	0.650	3.355	114.900
23	1.150	3.773	55.780	55.786	1.661	1.010	2.977	95.800
24	1.200	3.937	57.780	57.787	1.489	1.080	2.577	102.700
25	1.250	4.101	48.800	48.804	1.507	0.630	3.088	102.700
26	1.300	4.265	43.090	43.094	1.519	0.570	3.525	97.300
27	1.350	4.429	44.600	44.605	1.402	0.800	3.143	106.000
28	1.400	4.593	44.170	44.177	1.271	1.080	2.877	100.600
29	1.450	4.757	41.100	41.109	1.301	1.450	3.165	92.300
30	1.500	4.921	44.020	44.037	1.338	2.780	3.038	98.700
31	1.550	5.085	43.950	43.967	1.338	2.780	3.043	97.500
32	1.600	5.249	42.810	42.825	1.398	2.460	3.264	94.200
33	1.650	5.413	39.720	39.733	1.235	2.140	3.108	104.100
34	1.700	5.577	34.600	34.609	1.123	1.500	3.245	104.000
35	1.750	5.741	32.100	32.107	0.993	1.120	3.093	106.300
36	1.800	5.905	30.010	30.016	0.917	0.910	3.055	90.700
37	1.850	6.069	29.230	29.234	0.832	0.700	2.846	89.900
38	1.900	6.234	28.700	28.704	0.664	0.580	2.313	98.400
39	1.950	6.398	25.410	25.413	0.622	0.420	2.448	111.500
40	2.000	6.562	23.480	23.483	0.518	0.420	2.206	103.500
41	2.050	6.726	21.300	21.302	0.484	0.350	2.272	100.000
42	2.100	6.890	19.730	19.732	0.475	0.340	2.407	103.800
43	2.150	7.054	18.010	18.013	0.468	0.430	2.598	108.400
44	2.200	7.218	16.830	16.832	0.476	0.290	2.828	104.500
45	2.250	7.382	15.890	15.892	0.460	0.390	2.894	102.600
46	2.300	7.546	16.430	16.432	0.475	0.260	2.891	94.700
47	2.350	7.710	17.660	17.661	0.549	0.140	3.109	102.400
48	2.400	7.874	22.480	22.481	0.518	0.240	2.304	105.400
49	2.450	8.038	23.810	23.810	0.531	0.060	2.230	102.000
50	2.500	8.202	18.330	18.336	0.455	0.930	2.481	97.700
51	2.550	8.366	16.440	16.446	0.384	0.920	2.335	96.300
52	2.600	8.530	16.050	16.055	0.357	0.860	2.224	95.800
53	2.650	8.694	15.670	15.676	0.321	0.990	2.048	97.200
54	2.700	8.858	16.350	16.357	0.328	1.200	2.005	97.000
55	2.750	9.022	15.710	15.719	0.327	1.460	2.080	110.100
56	2.800	9.186	16.530	16.539	0.354	1.430	2.140	96.600
57	2.850	9.350	19.430	19.442	0.336	1.970	1.728	103.200
58	2.900	9.514	19.040	19.053	0.330	2.160	1.732	99.100
59	2.950	9.678	15.870	15.882	0.295	1.900	1.857	91.800
60	3.000	9.842	13.110	13.119	0.242	1.520	1.845	89.300
61	3.050	10.006	11.790	11.801	0.204	1.700	1.729	95.600
62	3.100	10.170	10.790	10.803	0.206	2.020	1.907	93.100
63	3.150	10.335	10.170	10.185	0.222	2.460	2.180	98.900
64	3.200	10.499	11.330	11.350	0.238	3.270	2.097	101.200
65	3.250	10.663	13.540	13.570	0.238	4.790	1.754	102.400
66	3.300	10.827	12.580	12.614	0.255	5.410	2.022	90.500
67	3.350	10.991	11.340	11.374	0.254	5.440	2.233	99.900
68	3.400	11.155	10.480	10.513	0.258	5.220	2.454	99.700
69	3.450	11.319	9.710	9.743	0.332	5.250	3.408	95.200
70	3.500	11.483	8.230	8.275	0.332	7.150	4.012	101.200
71	3.550	11.647	8.210	8.238	0.268	4.500	3.253	102.700
72	3.600	11.811	3.140	3.173	0.170	5.320	5.357	90.500
73	3.650	11.975	3.400	3.428	0.077	4.520	2.246	104.300
74	3.700	12.139	2.750	2.780	0.082	4.760	2.950	103.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	3.650	3.675	0.133	3.970	3.619	106.300
76	3.800	12.467	4.850	4.873	0.151	3.640	3.099	92.300
77	3.850	12.631	6.320	6.342	0.172	3.470	2.712	94.000
78	3.900	12.795	8.550	8.577	0.205	4.250	2.390	101.800
79	3.950	12.959	9.680	9.707	0.226	4.360	2.328	87.700
80	4.000	13.123	9.270	9.295	0.233	4.000	2.507	93.600
81	4.050	13.287	8.550	8.572	0.210	3.500	2.450	94.300
82	4.100	13.451	8.070	8.090	0.168	3.230	2.077	98.200
83	4.150	13.615	7.720	7.741	0.174	3.420	2.248	97.700
84	4.200	13.779	7.650	7.677	0.187	4.280	2.436	87.600
85	4.250	13.943	8.610	8.641	0.241	4.930	2.789	83.900
86	4.300	14.107	9.760	9.795	0.250	5.570	2.552	95.100
87	4.350	14.271	10.790	10.830	0.277	6.380	2.558	104.200
88	4.400	14.436	9.490	9.526	0.242	5.750	2.540	96.300
89	4.450	14.600	8.160	8.193	0.229	5.230	2.795	95.800
90	4.500	14.764	14.070	14.141	0.296	11.340	2.093	90.000
91	4.550	14.928	14.640	14.713	0.297	11.630	2.019	82.500
92	4.600	15.092	13.410	13.480	0.302	11.240	2.240	97.000
93	4.650	15.256	10.830	10.902	0.311	11.570	2.853	103.200
94	4.700	15.420	10.810	10.888	0.357	12.480	3.279	95.800
95	4.750	15.584	12.640	12.722	0.408	13.090	3.207	88.700
96	4.800	15.748	13.810	13.891	0.402	12.920	2.894	110.000
97	4.850	15.912	14.840	14.934	0.293	14.980	1.962	96.600
98	4.900	16.076	11.780	11.865	0.240	13.620	2.023	96.900
99	4.950	16.240	10.790	10.879	0.222	14.330	2.041	87.500
100	5.000	16.404	11.380	11.481	0.264	16.160	2.299	107.000
101	5.050	16.568	10.030	10.138	0.213	17.270	2.101	112.900
102	5.100	16.732	16.360	16.478	0.255	18.880	1.548	83.500
103	5.150	16.896	21.930	22.041	0.329	17.780	1.493	94.800
104	5.200	17.060	16.710	16.782	0.314	11.490	1.871	87.100
105	5.250	17.224	13.170	13.235	0.268	10.390	2.025	92.100
106	5.300	17.388	13.190	13.264	0.241	11.790	1.817	102.400
107	5.350	17.552	14.300	14.387	0.206	13.930	1.432	93.900
108	5.400	17.716	15.780	15.882	0.227	16.290	1.429	82.100
109	5.450	17.880	18.240	18.348	0.320	17.380	1.744	97.400
110	5.500	18.044	24.370	24.484	0.340	18.300	1.389	107.900
111	5.550	18.208	29.210	29.298	0.359	14.020	1.225	104.800
112	5.600	18.372	33.200	33.269	0.357	11.010	1.073	99.400
113	5.650	18.537	34.540	34.596	0.396	9.000	1.145	96.500
114	5.700	18.701	35.130	35.175	0.446	7.170	1.268	92.700
115	5.750	18.865	35.440	35.478	0.479	6.130	1.350	93.300
116	5.800	19.029	33.820	33.853	0.491	5.270	1.450	83.600
117	5.850	19.193	30.190	30.219	0.460	4.660	1.522	94.800
118	5.900	19.357	28.410	28.437	0.385	4.260	1.354	85.000
119	5.950	19.521	29.290	29.318	0.333	4.450	1.136	86.100
120	6.000	19.685	32.960	32.988	0.326	4.530	0.988	87.300
121	6.050	19.849	26.130	26.156	0.354	4.090	1.353	93.600
122	6.100	20.013	18.490	18.514	0.404	3.860	2.182	80.300
123	6.150	20.177	13.430	13.457	0.390	4.390	2.898	90.200
124	6.200	20.341	10.580	10.615	0.300	5.630	2.826	88.600
125	6.250	20.505	10.020	10.068	0.130	7.640	1.291	90.700
126	6.300	20.669	9.860	9.919	0.127	9.470	1.280	90.700
127	6.350	20.833	9.600	9.672	0.154	11.490	1.592	96.400
128	6.400	20.997	11.830	11.912	0.134	13.130	1.125	94.900
129	6.450	21.161	12.070	12.157	0.178	13.950	1.464	85.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	13.040	13.216	0.187	28.230	1.415	88.700
131	6.550	21.489	11.920	12.083	0.121	26.080	1.001	93.800
132	6.600	21.653	12.000	12.152	0.144	24.340	1.185	90.000
133	6.650	21.817	9.840	9.992	0.162	24.300	1.621	101.500
134	6.700	21.981	10.940	11.105	0.184	26.490	1.657	91.200
135	6.750	22.145	11.640	11.809	0.273	27.100	2.312	83.100
136	6.800	22.309	15.950	16.132	0.239	29.170	1.482	75.400
137	6.850	22.473	63.550	63.742	0.347	30.790	0.544	0.000
138	6.900	22.638	100.030	100.123	0.570	14.970	0.569	0.000
139	6.950	22.802	107.110	107.166	0.745	8.950	0.695	0.000
140	7.000	22.966	106.320	106.363	0.877	6.880	0.825	0.000
141	7.050	23.130	108.890	108.927	0.964	5.900	0.885	0.000
142	7.100	23.294	114.030	114.064	1.081	5.460	0.948	0.000
143	7.150	23.458	119.880	119.912	1.150	5.190	0.959	0.000
144	7.200	23.622	127.120	127.151	1.298	4.970	1.021	0.000
145	7.250	23.786	134.070	134.100	1.299	4.750	0.969	0.000
146	7.300	23.950	124.740	124.768	1.351	4.540	1.083	0.000
147	7.350	24.114	137.060	137.089	1.376	4.680	1.004	0.000
148	7.400	24.278	156.200	156.230	0.888	4.860	0.568	0.000
149	7.450	24.442	178.980	179.011	1.250	4.930	0.698	0.000
150	7.500	24.606	205.730	205.772	1.581	6.790	0.768	0.000
151	7.550	24.770	275.130	275.171	0.000	6.520	0.000	0.000
152	7.600	24.934	310.710	310.755	0.000	7.260	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221649
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-3
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	13:15
CPT File:	13-53075_GP16-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722312.642
Northing / Lat:	4294378.178
Elevation:	143.523
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.300	1.338	0.002	6.120	0.149	33.700
2	0.100	0.328	8.170	8.216	0.001	7.370	0.012	47.200
3	0.150	0.492	14.290	14.329	0.001	6.180	0.007	66.000
4	0.200	0.656	44.710	44.752	0.104	6.670	0.232	66.700
5	0.250	0.820	73.190	73.337	0.328	23.590	0.447	71.600
6	0.300	0.984	22.550	22.658	0.516	17.300	2.277	68.800
7	0.350	1.148	24.000	24.048	0.683	7.660	2.840	88.800
8	0.400	1.312	33.760	33.864	0.778	16.630	2.297	84.100
9	0.450	1.476	41.920	41.996	0.925	12.120	2.203	88.900
10	0.500	1.640	46.120	46.157	1.151	5.900	2.494	104.500
11	0.550	1.804	41.800	41.837	1.083	5.920	2.589	93.900
12	0.600	1.968	41.880	41.921	1.135	6.520	2.707	103.400
13	0.650	2.133	44.550	44.662	1.304	17.990	2.920	98.700
14	0.700	2.297	46.370	46.421	1.509	8.200	3.251	112.400
15	0.750	2.461	46.640	46.682	1.676	6.790	3.590	106.600
16	0.800	2.625	54.460	54.503	1.753	6.950	3.216	106.200
17	0.850	2.789	61.900	61.951	1.876	8.110	3.028	100.800
18	0.900	2.953	61.590	61.633	1.971	6.830	3.198	91.500
19	0.950	3.117	51.800	51.832	1.947	5.100	3.756	102.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	44.570	44.604	1.738	5.380	3.897	102.800
21	1.050	3.445	33.930	33.949	1.473	3.080	4.339	91.200
22	1.100	3.609	30.590	30.613	1.309	3.650	4.276	88.200
23	1.150	3.773	30.410	30.433	1.164	3.670	3.825	102.600
24	1.200	3.937	35.210	35.239	1.085	4.690	3.079	81.100
25	1.250	4.101	34.940	34.978	1.015	6.120	2.902	100.600
26	1.300	4.265	33.900	33.936	1.027	5.690	3.026	87.400
27	1.350	4.429	32.410	32.445	1.015	5.610	3.128	96.400
28	1.400	4.593	22.900	22.835	0.701	-10.450	3.070	96.300
29	1.450	4.757	12.360	12.538	0.441	28.530	3.517	90.000
30	1.500	4.921	12.070	12.110	0.245	6.440	2.023	106.900
31	1.550	5.085	11.290	11.329	0.186	6.250	1.642	92.900
32	1.600	5.249	12.500	12.534	0.242	5.380	1.931	100.000
33	1.650	5.413	16.050	16.090	0.290	6.420	1.802	85.500
34	1.700	5.577	17.600	17.639	0.299	6.320	1.695	91.800
35	1.750	5.741	15.820	15.859	0.278	6.240	1.753	95.900
36	1.800	5.905	14.130	14.170	0.251	6.400	1.771	96.200
37	1.850	6.069	13.140	13.170	0.254	4.750	1.929	92.200
38	1.900	6.234	13.220	13.256	0.215	5.750	1.622	87.200
39	1.950	6.398	13.730	13.765	0.182	5.540	1.322	89.500
40	2.000	6.562	12.210	12.240	0.134	4.800	1.095	86.700
41	2.050	6.726	10.560	10.589	0.117	4.620	1.105	83.100
42	2.100	6.890	10.620	10.651	0.088	4.900	0.826	78.500
43	2.150	7.054	8.990	9.019	0.079	4.620	0.876	76.200
44	2.200	7.218	7.110	7.131	0.071	3.440	0.996	75.500
45	2.250	7.382	7.770	7.795	0.058	3.980	0.744	71.700
46	2.300	7.546	12.160	12.195	0.115	5.550	0.943	69.200
47	2.350	7.710	13.140	13.181	0.169	6.550	1.282	69.900
48	2.400	7.874	9.670	9.713	0.140	6.890	1.441	61.400
49	2.450	8.038	10.920	10.957	0.285	5.850	2.601	64.500
50	2.500	8.202	31.940	31.971	0.285	4.980	0.891	60.000
51	2.550	8.366	39.500	39.607	0.618	17.190	1.560	75.900
52	2.600	8.530	29.940	29.986	0.631	7.290	2.104	77.200
53	2.650	8.694	11.780	11.819	0.489	6.230	4.137	81.700
54	2.700	8.858	7.600	7.670	0.179	11.140	2.334	88.700
55	2.750	9.022	9.510	9.600	0.180	14.420	1.875	101.400
56	2.800	9.186	11.300	11.477	0.212	28.340	1.847	101.000
57	2.850	9.350	12.940	13.210	0.252	43.220	1.908	93.400
58	2.900	9.514	16.750	17.123	0.401	59.720	2.342	89.100
59	2.950	9.678	27.550	27.827	0.635	44.330	2.282	95.700
60	3.000	9.842	29.120	29.190	0.818	11.140	2.802	86.300
61	3.050	10.006	23.850	23.916	0.767	10.580	3.207	83.000
62	3.100	10.170	29.720	29.943	0.740	35.800	2.471	90.500
63	3.150	10.335	36.940	37.003	0.763	10.060	2.062	85.600
64	3.200	10.499	32.980	33.004	0.876	3.880	2.654	92.200
65	3.250	10.663	26.890	26.878	0.872	-1.870	3.244	82.000
66	3.300	10.827	21.320	21.296	0.686	-3.850	3.221	82.400
67	3.350	10.991	16.300	16.274	0.390	-4.230	2.397	96.400
68	3.400	11.155	13.400	13.387	0.185	-2.050	1.382	88.400
69	3.450	11.319	10.930	10.931	0.127	0.100	1.162	92.200
70	3.500	11.483	9.880	9.892	0.096	1.880	0.971	91.200
71	3.550	11.647	8.940	8.961	0.092	3.310	1.027	87.600
72	3.600	11.811	7.900	7.930	0.087	4.790	1.097	78.000
73	3.650	11.975	10.960	11.033	0.061	11.670	0.553	89.100
74	3.700	12.139	10.180	10.240	0.037	9.580	0.361	86.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	9.190	9.277	0.052	13.950	0.561	90.000
76	3.800	12.467	8.670	8.820	0.083	23.990	0.941	108.600
77	3.850	12.631	9.970	10.140	0.235	27.290	2.317	97.300
78	3.900	12.795	10.850	10.938	0.450	14.080	4.114	90.900
79	3.950	12.959	10.590	10.640	0.609	7.990	5.724	90.100
80	4.000	13.123	11.020	11.079	0.595	9.430	5.371	101.200
81	4.050	13.287	10.890	10.943	0.580	8.460	5.300	104.800
82	4.100	13.451	11.340	11.380	0.531	6.360	4.666	110.700
83	4.150	13.615	12.380	12.438	0.530	9.230	4.261	99.700
84	4.200	13.779	11.540	11.582	0.541	6.680	4.671	97.800
85	4.250	13.943	10.670	10.693	0.543	3.760	5.078	100.700
86	4.300	14.107	11.320	11.354	0.495	5.370	4.360	90.300
87	4.350	14.271	15.560	15.627	0.496	10.720	3.174	79.100
88	4.400	14.436	19.250	19.268	0.564	2.940	2.927	98.600
89	4.450	14.600	19.470	19.442	0.611	-4.540	3.143	80.100
90	4.500	14.764	17.980	17.944	0.503	-5.700	2.803	59.400
91	4.550	14.928	15.140	15.077	0.476	-10.160	3.157	41.900
92	4.600	15.092	17.620	17.607	0.475	-2.030	2.698	32.700
93	4.650	15.256	25.030	25.077	0.552	7.560	2.201	23.800
94	4.700	15.420	11.430	11.535	0.528	16.860	4.577	18.500
95	4.750	15.584	21.110	21.165	0.695	8.760	3.284	18.200
96	4.800	15.748	34.230	34.262	0.747	5.080	2.180	15.700
97	4.850	15.912	18.050	18.190	0.794	22.500	4.365	12.500
98	4.900	16.076	16.010	16.117	0.590	17.080	3.661	13.500
99	4.950	16.240	11.190	11.325	0.580	21.690	5.121	8.200
100	5.000	16.404	20.170	20.230	0.658	9.680	3.253	15.000
101	5.050	16.568	28.950	28.956	0.683	0.900	2.359	13.200
102	5.100	16.732	15.550	15.736	0.818	29.780	5.198	15.100
103	5.150	16.896	16.860	16.880	0.727	3.170	4.307	10.300
104	5.200	17.060	11.150	11.195	0.468	7.280	4.180	19.500
105	5.250	17.224	2.760	2.778	0.344	2.930	12.382	23.200
106	5.300	17.388	13.730	13.876	0.412	23.370	2.969	21.200
107	5.350	17.552	17.240	17.684	0.453	71.130	2.562	16.600
108	5.400	17.716	12.940	12.950	0.393	1.630	3.035	25.800
109	5.450	17.880	5.780	5.732	0.310	-7.640	5.408	23.000
110	5.500	18.044	12.370	12.419	0.309	7.860	2.488	21.100
111	5.550	18.208	17.070	17.115	0.430	7.170	2.512	26.300
112	5.600	18.372	87.040	87.177	0.679	21.950	0.779	26.700
113	5.650	18.537	93.300	93.331	1.134	5.040	1.215	40.300
114	5.700	18.701	48.360	48.372	1.264	1.930	2.613	39.300
115	5.750	18.865	21.100	21.144	1.210	7.090	5.723	46.700
116	5.800	19.029	19.340	19.397	0.887	9.160	4.573	61.800
117	5.850	19.193	17.720	17.732	0.633	1.920	3.570	74.800
118	5.900	19.357	12.300	12.442	0.706	22.680	5.675	86.500
119	5.950	19.521	12.130	12.212	0.771	13.110	6.314	85.400
120	6.000	19.685	12.580	12.723	0.873	22.910	6.862	99.700
121	6.050	19.849	15.650	15.864	0.838	34.240	5.282	87.700
122	6.100	20.013	17.810	18.093	0.902	45.280	4.985	97.500
123	6.150	20.177	19.000	19.278	0.993	44.560	5.151	93.900
124	6.200	20.341	19.000	19.355	0.877	56.920	4.531	95.000
125	6.250	20.505	22.410	22.902	0.847	78.770	3.698	89.100
126	6.300	20.669	25.940	26.444	0.914	80.760	3.456	68.600
127	6.350	20.833	147.910	147.842	1.126	-10.840	0.762	64.300
128	6.400	20.997	75.440	75.341	1.588	-15.790	2.108	67.400
129	6.450	21.161	80.610	80.582	2.384	-4.450	2.958	70.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	74.600	74.568	1.285	-5.110	1.723	65.200
131	6.550	21.489	64.790	64.816	0.791	4.210	1.220	46.800
132	6.600	21.653	17.180	17.194	0.682	2.290	3.966	44.200
133	6.650	21.817	14.710	14.775	0.504	10.350	3.411	37.700
134	6.700	21.981	19.080	19.163	0.588	13.310	3.068	35.100
135	6.750	22.145	50.800	50.837	0.941	5.900	1.851	24.200
136	6.800	22.309	48.820	48.871	1.071	8.090	2.192	22.500
137	6.850	22.473	33.610	33.727	0.986	18.790	2.923	20.200
138	6.900	22.638	31.180	31.239	0.775	9.530	2.481	18.900
139	6.950	22.802	43.070	43.105	0.587	5.550	1.362	20.000
140	7.000	22.966	35.750	35.787	0.628	5.860	1.755	23.900
141	7.050	23.130	18.250	18.279	0.556	4.590	3.042	19.600
142	7.100	23.294	21.670	21.707	0.481	5.930	2.216	29.900
143	7.150	23.458	16.880	16.928	0.336	7.720	1.985	26.300
144	7.200	23.622	8.830	8.892	0.278	9.960	3.126	39.000
145	7.250	23.786	15.970	16.037	0.346	10.730	2.158	35.900
146	7.300	23.950	15.900	15.944	0.348	7.100	2.183	33.500
147	7.350	24.114	28.900	28.940	0.449	6.330	1.552	40.400
148	7.400	24.278	59.640	59.694	0.590	8.670	0.988	41.300
149	7.450	24.442	27.440	27.459	0.581	3.000	2.116	41.900
150	7.500	24.606	50.850	50.878	0.807	4.470	1.586	48.800
151	7.550	24.770	98.570	98.636	0.878	10.530	0.890	56.900
152	7.600	24.934	50.490	50.557	0.954	10.670	1.887	56.900
153	7.650	25.098	22.170	22.203	0.822	5.260	3.702	57.100
154	7.700	25.262	18.270	18.313	0.439	6.830	2.397	75.000
155	7.750	25.426	21.830	21.861	0.349	4.950	1.596	90.500
156	7.800	25.590	18.660	18.689	0.323	4.690	1.728	77.000
157	7.850	25.754	17.140	17.158	0.282	2.860	1.644	92.600
158	7.900	25.918	17.640	17.674	0.254	5.450	1.437	95.600
159	7.950	26.082	17.460	17.507	0.233	7.510	1.331	97.200
160	8.000	26.246	16.920	16.949	0.276	4.620	1.628	83.700
161	8.050	26.410	17.130	17.155	0.346	4.050	2.017	93.300
162	8.100	26.574	13.700	13.728	0.422	4.430	3.074	88.500
163	8.150	26.739	11.150	11.185	0.443	5.540	3.961	88.500
164	8.200	26.903	9.070	9.094	0.408	3.870	4.486	90.400
165	8.250	27.067	8.410	8.432	0.386	3.600	4.578	98.400
166	8.300	27.231	8.610	8.632	0.396	3.600	4.587	93.400
167	8.350	27.395	9.920	9.942	0.338	3.600	3.400	94.800
168	8.400	27.559	16.780	16.810	0.234	4.880	1.392	89.800
169	8.450	27.723	31.140	31.213	0.503	11.690	1.612	80.700
170	8.500	27.887	32.920	32.962	0.612	6.650	1.857	85.100
171	8.550	28.051	27.090	27.136	0.621	7.350	2.288	83.100
172	8.600	28.215	38.200	38.235	0.475	5.590	1.242	85.000
173	8.650	28.379	51.020	51.055	0.599	5.610	1.173	0.000
174	8.700	28.543	51.340	51.372	0.849	5.070	1.653	0.000
175	8.750	28.707	56.650	56.704	1.014	8.650	1.788	0.000
176	8.800	28.871	98.180	98.247	1.198	10.780	1.219	0.000
177	8.850	29.035	90.150	90.201	1.476	8.150	1.636	0.000
178	8.900	29.199	60.180	60.222	1.535	6.750	2.549	0.000
179	8.950	29.363	45.200	45.253	1.401	8.440	3.096	0.000
180	9.000	29.527	48.910	49.033	1.371	19.630	2.796	0.000
181	9.050	29.691	56.450	56.537	1.088	13.980	1.924	0.000
182	9.100	29.855	53.720	53.786	1.000	10.500	1.859	0.000
183	9.150	30.019	52.930	52.973	0.712	6.860	1.344	0.000
184	9.200	30.183	58.090	58.125	0.648	5.610	1.115	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	66.940	66.973	1.010	5.220	1.508	0.000
186	9.300	30.511	98.140	98.177	1.591	5.910	1.621	0.000
187	9.350	30.675	413.220	413.298	0.000	12.460	0.000	0.000
188	9.400	30.840	428.830	428.904	0.000	11.920	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221651
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-4
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	10:38
CPT File:	13-53075_GP16-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722321.623
Northing / Lat:	4294369.881
Elevation:	143.888
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	8.750	8.871	0.000	19.360	0.000	28.900
2	0.100	0.328	21.080	21.124	0.067	7.050	0.317	47.300
3	0.150	0.492	34.360	34.384	0.066	3.810	0.192	60.300
4	0.200	0.656	43.800	43.828	0.312	4.490	0.712	66.900
5	0.250	0.820	22.050	22.147	0.456	15.470	2.059	90.400
6	0.300	0.984	17.690	17.728	0.615	6.160	3.469	82.400
7	0.350	1.148	36.960	37.031	0.771	11.440	2.082	92.400
8	0.400	1.312	65.810	65.834	0.972	3.790	1.476	104.400
9	0.450	1.476	57.770	57.784	0.939	2.320	1.625	115.000
10	0.500	1.640	42.750	42.758	0.928	1.340	2.170	109.900
11	0.550	1.804	35.180	35.213	0.755	5.280	2.144	106.900
12	0.600	1.968	34.270	34.286	0.766	2.630	2.234	107.600
13	0.650	2.133	41.310	41.324	0.827	2.290	2.001	109.700
14	0.700	2.297	52.200	52.215	0.908	2.460	1.739	94.400
15	0.750	2.461	60.630	60.641	0.910	1.810	1.501	101.400
16	0.800	2.625	67.450	67.461	0.824	1.800	1.221	103.300
17	0.850	2.789	73.980	73.991	0.954	1.770	1.289	100.200
18	0.900	2.953	71.760	71.770	1.359	1.660	1.894	124.100
19	0.950	3.117	64.270	64.285	1.500	2.410	2.333	95.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	52.680	52.691	1.396	1.700	2.649	99.000
21	1.050	3.445	48.620	48.624	1.170	0.690	2.406	104.600
22	1.100	3.609	47.110	47.117	1.017	1.060	2.158	82.400
23	1.150	3.773	46.660	46.670	0.956	1.660	2.048	98.800
24	1.200	3.937	48.210	48.219	1.131	1.400	2.346	105.500
25	1.250	4.101	45.520	45.530	1.219	1.620	2.677	83.100
26	1.300	4.265	36.190	36.194	1.276	0.640	3.525	103.500
27	1.350	4.429	29.890	29.900	1.156	1.590	3.866	96.700
28	1.400	4.593	24.860	24.872	0.943	1.880	3.791	84.600
29	1.450	4.757	20.940	20.940	0.730	0.080	3.486	103.000
30	1.500	4.921	17.110	17.107	0.661	-0.480	3.864	102.100
31	1.550	5.085	16.490	16.499	0.579	1.430	3.509	95.400
32	1.600	5.249	15.890	15.899	0.520	1.400	3.271	96.900
33	1.650	5.413	15.380	15.382	0.473	0.330	3.075	95.700
34	1.700	5.577	15.400	15.391	0.430	-1.390	2.794	98.600
35	1.750	5.741	14.420	14.405	0.414	-2.380	2.874	93.100
36	1.800	5.905	14.150	14.145	0.398	-0.770	2.814	83.400
37	1.850	6.069	13.020	13.020	0.392	0.040	3.011	82.500
38	1.900	6.234	11.750	11.752	0.391	0.300	3.327	85.000
39	1.950	6.398	10.810	10.813	0.343	0.480	3.172	80.700
40	2.000	6.562	11.010	11.020	0.301	1.640	2.731	91.900
41	2.050	6.726	14.990	14.977	0.256	-2.130	1.709	86.100
42	2.100	6.890	15.540	15.525	0.209	-2.410	1.346	78.000
43	2.150	7.054	14.820	14.817	0.193	-0.530	1.303	76.100
44	2.200	7.218	14.230	14.224	0.214	-1.030	1.505	90.100
45	2.250	7.382	10.640	10.632	0.210	-1.330	1.975	80.600
46	2.300	7.546	8.560	8.563	0.173	0.520	2.020	72.700
47	2.350	7.710	9.750	9.763	0.246	2.020	2.520	78.400
48	2.400	7.874	11.840	11.859	0.281	3.120	2.369	82.600
49	2.450	8.038	10.680	10.724	0.284	7.100	2.648	87.000
50	2.500	8.202	17.910	17.890	0.249	-3.270	1.392	82.200
51	2.550	8.366	24.320	24.367	0.570	7.520	2.339	66.700
52	2.600	8.530	23.370	23.376	0.438	0.890	1.874	92.000
53	2.650	8.694	9.410	9.435	0.408	3.960	4.324	84.500
54	2.700	8.858	13.510	13.545	0.319	5.610	2.355	87.900
55	2.750	9.022	20.040	20.033	0.383	-1.070	1.912	95.600
56	2.800	9.186	18.840	18.809	0.489	-4.990	2.600	99.300
57	2.850	9.350	16.540	16.488	0.553	-8.400	3.354	86.100
58	2.900	9.514	17.150	17.086	0.559	-10.230	3.272	100.700
59	2.950	9.678	19.170	19.111	0.589	-9.460	3.082	107.000
60	3.000	9.842	19.520	19.459	0.628	-9.760	3.227	101.000
61	3.050	10.006	18.460	18.396	0.675	-10.330	3.669	99.200
62	3.100	10.170	17.690	17.626	0.697	-10.200	3.954	107.900
63	3.150	10.335	16.740	16.677	0.712	-10.100	4.269	108.200
64	3.200	10.499	14.870	14.808	0.726	-9.950	4.903	97.900
65	3.250	10.663	13.840	13.777	0.701	-10.040	5.088	96.900
66	3.300	10.827	14.340	14.306	0.635	-5.430	4.439	91.400
67	3.350	10.991	13.970	13.931	0.591	-6.240	4.242	94.200
68	3.400	11.155	13.010	12.968	0.565	-6.760	4.357	92.000
69	3.450	11.319	11.380	11.327	0.402	-8.480	3.549	75.500
70	3.500	11.483	9.810	9.759	0.245	-8.120	2.510	86.900
71	3.550	11.647	10.150	10.108	0.133	-6.700	1.316	76.800
72	3.600	11.811	8.250	8.210	0.095	-6.450	1.157	75.600
73	3.650	11.975	7.050	7.020	0.052	-4.780	0.741	91.200
74	3.700	12.139	7.300	7.287	0.037	-2.100	0.508	95.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	6.360	6.360	0.060	-0.050	0.943	82.800
76	3.800	12.467	5.760	5.772	0.058	1.920	1.005	84.900
77	3.850	12.631	5.340	5.359	0.059	3.020	1.101	79.800
78	3.900	12.795	5.160	5.188	0.049	4.500	0.944	82.800
79	3.950	12.959	4.670	4.703	0.027	5.280	0.574	97.900
80	4.000	13.123	5.920	5.971	0.142	8.170	2.378	93.600
81	4.050	13.287	12.090	12.126	0.387	5.710	3.192	111.200
82	4.100	13.451	16.830	16.871	0.586	6.640	3.473	113.300
83	4.150	13.615	19.870	19.924	0.696	8.660	3.493	116.200
84	4.200	13.779	19.880	19.899	0.626	3.070	3.146	95.300
85	4.250	13.943	20.810	20.832	0.633	3.570	3.039	100.600
86	4.300	14.107	19.420	19.431	0.646	1.800	3.325	98.300
87	4.350	14.271	17.170	17.170	0.666	-0.020	3.879	97.600
88	4.400	14.436	17.790	17.782	0.731	-1.220	4.111	89.400
89	4.450	14.600	27.700	27.695	0.703	-0.840	2.538	91.300
90	4.500	14.764	37.660	37.642	0.733	-2.920	1.947	88.100
91	4.550	14.928	34.180	34.138	0.825	-6.780	2.417	75.300
92	4.600	15.092	25.010	24.965	0.820	-7.240	3.285	55.800
93	4.650	15.256	22.180	22.201	1.000	3.340	4.504	45.500
94	4.700	15.420	25.470	25.509	1.056	6.260	4.140	33.700
95	4.750	15.584	57.310	57.345	0.999	5.620	1.742	34.700
96	4.800	15.748	29.590	29.632	0.786	6.790	2.653	36.000
97	4.850	15.912	33.930	33.942	0.732	1.950	2.157	33.400
98	4.900	16.076	17.200	17.244	0.587	6.980	3.404	39.800
99	4.950	16.240	10.810	10.859	0.335	7.770	3.085	27.200
100	5.000	16.404	50.360	50.513	0.493	24.440	0.976	27.800
101	5.050	16.568	78.030	78.047	0.955	2.690	1.224	21.300
102	5.100	16.732	25.760	25.776	0.825	2.590	3.201	22.700
103	5.150	16.896	6.430	6.466	0.662	5.760	10.238	22.700
104	5.200	17.060	7.870	7.910	0.341	6.460	4.311	17.700
105	5.250	17.224	15.920	15.981	0.235	9.760	1.471	19.800
106	5.300	17.388	9.630	9.667	0.194	5.870	2.007	19.200
107	5.350	17.552	10.150	10.159	0.344	1.460	3.386	16.500
108	5.400	17.716	24.400	24.431	0.306	4.960	1.253	15.100
109	5.450	17.880	19.270	19.295	0.713	4.040	3.695	13.900
110	5.500	18.044	31.080	31.138	0.811	9.300	2.605	12.700
111	5.550	18.208	23.750	23.619	0.904	-20.980	3.827	8.700
112	5.600	18.372	18.750	18.714	0.752	-5.790	4.018	7.500
113	5.650	18.537	14.860	14.881	1.576	3.440	10.590	10.800
114	5.700	18.701	23.380	23.644	0.979	42.360	4.141	11.500
115	5.750	18.865	29.300	29.342	0.946	6.730	3.224	11.900
116	5.800	19.029	18.650	18.853	1.021	32.510	5.416	11.100
117	5.850	19.193	18.560	18.579	0.667	3.110	3.590	15.600
118	5.900	19.357	15.430	15.562	0.462	21.100	2.969	18.900
119	5.950	19.521	19.540	19.632	0.417	14.790	2.124	19.800
120	6.000	19.685	21.230	21.282	0.699	8.340	3.284	24.000
121	6.050	19.849	14.250	14.290	0.726	6.360	5.081	25.700
122	6.100	20.013	81.390	81.498	0.760	17.310	0.933	27.800
123	6.150	20.177	98.280	98.321	0.675	6.540	0.687	30.700
124	6.200	20.341	59.650	59.667	1.008	2.650	1.689	40.200
125	6.250	20.505	17.400	17.438	0.850	6.020	4.875	45.600
126	6.300	20.669	11.290	11.441	0.542	24.120	4.738	59.400
127	6.350	20.833	9.990	10.226	0.218	37.800	2.132	63.900
128	6.400	20.997	10.230	10.430	0.198	32.040	1.898	71.400
129	6.450	21.161	14.260	14.510	0.228	40.070	1.571	71.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	18.340	18.706	0.319	58.560	1.705	70.900
131	6.550	21.489	24.680	24.986	0.420	49.070	1.681	83.000
132	6.600	21.653	23.180	23.254	0.477	11.860	2.051	79.000
133	6.650	21.817	20.460	20.642	0.482	29.080	2.335	71.000
134	6.700	21.981	21.270	21.481	1.022	33.740	4.758	66.500
135	6.750	22.145	41.220	41.177	0.912	-6.810	2.215	72.800
136	6.800	22.309	23.740	23.696	1.135	-7.020	4.790	71.500
137	6.850	22.473	21.080	21.082	0.976	0.330	4.630	72.900
138	6.900	22.638	18.920	18.902	0.709	-2.950	3.751	65.600
139	6.950	22.802	14.070	14.039	0.643	-5.040	4.580	49.900
140	7.000	22.966	18.320	18.321	0.310	0.090	1.692	47.900
141	7.050	23.130	21.970	21.845	0.203	-20.070	0.929	44.100
142	7.100	23.294	21.260	21.254	0.139	-0.900	0.654	44.600
143	7.150	23.458	17.640	17.652	0.144	1.960	0.816	36.400
144	7.200	23.622	23.690	23.762	0.236	11.470	0.993	38.400
145	7.250	23.786	17.840	17.900	0.311	9.580	1.737	37.900
146	7.300	23.950	29.150	29.196	0.217	7.430	0.743	44.600
147	7.350	24.114	29.550	29.592	0.303	6.650	1.024	50.400
148	7.400	24.278	8.480	8.523	0.224	6.850	2.628	61.100
149	7.450	24.442	18.950	19.015	0.183	10.440	0.962	70.300
150	7.500	24.606	21.150	21.209	0.172	9.410	0.811	65.000
151	7.550	24.770	12.940	12.961	0.183	3.300	1.412	79.500
152	7.600	24.934	12.000	12.026	0.180	4.240	1.497	80.200
153	7.650	25.098	14.070	14.110	0.174	6.340	1.233	76.800
154	7.700	25.262	18.880	18.926	0.145	7.390	0.766	73.800
155	7.750	25.426	21.950	21.999	0.141	7.840	0.641	82.000
156	7.800	25.590	25.430	25.488	0.128	9.360	0.502	89.900
157	7.850	25.754	27.410	27.469	0.136	9.510	0.495	96.700
158	7.900	25.918	28.500	28.555	0.168	8.880	0.588	90.200
159	7.950	26.082	28.420	28.478	0.195	9.290	0.685	100.200
160	8.000	26.246	27.280	27.330	0.237	8.040	0.867	101.600
161	8.050	26.410	26.200	26.254	0.315	8.640	1.200	102.100
162	8.100	26.574	26.020	26.084	0.382	10.240	1.465	83.400
163	8.150	26.739	25.070	25.136	0.298	10.520	1.186	88.900
164	8.200	26.903	25.260	25.331	0.255	11.310	1.007	88.500
165	8.250	27.067	25.750	25.822	0.259	11.490	1.003	87.600
166	8.300	27.231	25.350	25.428	0.253	12.450	0.995	86.600
167	8.350	27.395	23.550	23.634	0.253	13.490	1.070	88.100
168	8.400	27.559	21.880	21.969	0.255	14.220	1.161	84.200
169	8.450	27.723	21.780	21.869	0.254	14.320	1.161	86.800
170	8.500	27.887	21.770	21.866	0.273	15.450	1.248	97.900
171	8.550	28.051	21.460	21.586	0.264	20.250	1.223	81.000
172	8.600	28.215	21.180	21.302	0.325	19.550	1.526	94.400
173	8.650	28.379	22.260	22.383	0.358	19.750	1.599	82.200
174	8.700	28.543	22.650	22.739	0.315	14.300	1.385	82.500
175	8.750	28.707	19.140	19.173	0.338	5.300	1.763	88.400
176	8.800	28.871	19.390	19.404	0.274	2.250	1.412	81.300
177	8.850	29.035	33.450	33.475	0.347	4.040	1.037	87.400
178	8.900	29.199	43.000	43.016	0.431	2.600	1.002	98.200
179	8.950	29.363	38.280	38.360	0.428	12.880	1.116	88.100
180	9.000	29.527	34.290	34.382	0.550	14.750	1.600	91.400
181	9.050	29.691	30.340	30.413	0.573	11.680	1.884	92.100
182	9.100	29.855	25.610	25.704	0.343	15.040	1.334	97.300
183	9.150	30.019	33.740	33.957	0.359	34.830	1.057	83.500
184	9.200	30.183	49.950	50.120	0.420	27.260	0.838	84.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	47.610	47.788	0.495	28.570	1.036	94.100
186	9.300	30.511	45.350	45.561	0.430	33.740	0.944	88.400
187	9.350	30.675	40.710	40.902	0.411	30.810	1.005	93.300
188	9.400	30.840	38.440	38.618	0.435	28.530	1.126	81.200
189	9.450	31.004	35.670	35.843	0.307	27.640	0.857	89.400
190	9.500	31.168	29.290	29.449	0.377	25.440	1.280	84.000
191	9.550	31.332	28.050	28.181	0.374	20.960	1.327	86.600
192	9.600	31.496	22.000	22.115	0.209	18.450	0.945	91.700
193	9.650	31.660	19.350	19.466	0.163	18.600	0.837	89.200
194	9.700	31.824	20.160	20.280	0.259	19.240	1.277	86.500
195	9.750	31.988	20.460	20.568	0.260	17.330	1.264	90.000
196	9.800	32.152	18.400	18.469	0.314	11.050	1.700	84.400
197	9.850	32.316	17.410	17.454	0.248	7.090	1.421	84.300
198	9.900	32.480	14.630	14.655	0.465	4.060	3.173	72.100
199	9.950	32.644	14.090	14.099	0.551	1.500	3.908	73.900
200	10.000	32.808	95.910	95.934	0.441	3.820	0.460	71.100
201	10.050	32.972	157.410	157.416	0.319	0.990	0.203	67.000
202	10.100	33.136	185.360	185.359	0.265	-0.200	0.143	64.700
203	10.150	33.300	149.280	149.287	1.206	1.190	0.808	57.000
204	10.200	33.464	203.030	203.055	1.549	4.070	0.763	59.100
205	10.250	33.628	139.910	139.914	3.992	0.580	2.853	58.900
206	10.300	33.792	131.120	131.155	4.364	5.600	3.327	65.800
207	10.350	33.956	128.250	128.274	2.188	3.920	1.706	60.400
208	10.400	34.120	99.000	99.019	0.363	2.990	0.367	66.600
209	10.450	34.284	10.040	10.056	0.284	2.580	2.824	71.200
210	10.500	34.448	9.720	9.784	0.260	10.270	2.657	59.500
211	10.550	34.612	10.150	10.225	0.263	11.970	2.572	58.300
212	10.600	34.776	10.720	10.800	0.354	12.750	3.278	68.100
213	10.650	34.941	11.400	11.504	0.468	16.670	4.068	63.600
214	10.700	35.105	27.040	27.077	0.435	6.000	1.607	68.700
215	10.750	35.269	44.930	44.968	0.601	6.090	1.337	76.200
216	10.800	35.433	53.260	53.334	0.677	11.820	1.269	72.700
217	10.850	35.597	65.120	65.169	0.787	7.860	1.208	69.700
218	10.900	35.761	164.430	164.543	1.094	18.130	0.665	64.700
219	10.950	35.925	196.120	196.271	1.390	24.140	0.708	74.400
220	11.000	36.089	151.880	151.934	1.568	8.710	1.032	57.000
221	11.050	36.253	74.630	74.649	2.471	3.020	3.310	84.700
222	11.100	36.417	37.250	37.570	2.571	51.310	6.843	84.600
223	11.150	36.581	32.710	33.018	0.560	49.370	1.696	86.000
224	11.200	36.745	13.280	13.516	0.588	37.750	4.351	90.900
225	11.250	36.909	15.790	15.892	0.650	16.320	4.090	88.700
226	11.300	37.073	16.510	16.581	0.700	11.350	4.222	83.300
227	11.350	37.237	17.350	17.383	0.736	5.250	4.234	94.600
228	11.400	37.401	17.880	17.898	0.782	2.920	4.369	96.000
229	11.450	37.565	16.630	16.640	0.798	1.640	4.796	100.200
230	11.500	37.729	16.910	16.927	1.186	2.670	7.007	92.400
231	11.550	37.893	43.920	43.902	1.492	-2.870	3.398	97.300
232	11.600	38.057	22.450	22.418	1.446	-5.060	6.450	96.300
233	11.650	38.221	17.730	17.704	1.289	-4.240	7.281	96.000
234	11.700	38.385	17.360	17.331	0.818	-4.640	4.720	100.100
235	11.750	38.549	16.190	16.159	0.792	-5.010	4.901	90.000
236	11.800	38.713	15.990	15.958	0.891	-5.130	5.583	92.300
237	11.850	38.877	15.350	15.316	0.654	-5.480	4.270	85.300
238	11.900	39.042	24.680	24.660	0.668	-3.170	2.709	77.600
239	11.950	39.206	239.120	239.053	1.172	-10.790	0.490	78.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	255.110	255.046	1.006	-10.250	0.394	76.200
241	12.050	39.534	109.470	109.374	1.912	-15.390	1.748	75.500
242	12.100	39.698	68.780	68.687	2.306	-14.820	3.357	83.300
243	12.150	39.862	176.410	176.365	3.866	-7.210	2.192	85.900
244	12.200	40.026	24.930	24.890	3.666	-6.370	14.729	83.300
245	12.250	40.190	24.440	24.373	3.802	-10.750	15.599	84.600
246	12.300	40.354	8.270	8.204	0.768	-10.640	9.362	80.600
247	12.350	40.518	10.060	9.997	2.342	-10.020	23.426	85.500
248	12.400	40.682	73.250	73.186	2.678	-10.250	3.659	81.800
249	12.450	40.846	14.390	14.346	0.772	-7.050	5.381	79.600
250	12.500	41.010	21.470	21.358	1.337	-18.000	6.260	80.800
251	12.550	41.174	84.910	84.879	1.019	-4.970	1.201	80.600
252	12.600	41.338	126.120	126.083	0.763	-5.940	0.605	0.000
253	12.650	41.502	50.400	50.302	2.065	-15.680	4.105	0.000
254	12.700	41.666	71.080	71.035	3.210	-7.180	4.519	0.000
255	12.750	41.830	17.390	17.385	4.006	-0.800	23.043	0.000
256	12.800	41.994	20.220	20.167	0.928	-8.550	4.602	0.000
257	12.850	42.158	5.990	5.934	1.269	-9.040	21.387	0.000
258	12.900	42.322	74.390	74.521	2.227	21.060	2.988	0.000
259	12.950	42.486	21.960	21.938	2.010	-3.480	9.162	0.000
260	13.000	42.650	9.400	9.355	0.499	-7.200	5.334	0.000
261	13.050	42.814	4.980	4.930	0.281	-8.070	5.700	0.000
262	13.100	42.978	3.810	3.748	0.237	-9.950	6.324	0.000
263	13.150	43.143	3.050	2.967	1.594	-13.260	53.720	0.000
264	13.200	43.307	22.540	22.478	3.974	-9.980	17.680	0.000
265	13.250	43.471	122.630	122.616	5.386	-2.180	4.393	0.000
266	13.300	43.635	294.720	294.685	0.000	-5.580	0.000	0.000
267	13.350	43.799	347.440	347.407	0.000	-5.290	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221653
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-5
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	10:38
CPT File:	13-53075_GP16-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722333.369
Northing / Lat:	4294358.826
Elevation:	144.361
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	4.670	4.726	0.000	9.040	0.000	38.400
2	0.100	0.328	29.020	29.029	0.035	1.460	0.121	37.400
3	0.150	0.492	28.490	28.492	0.129	0.380	0.453	55.400
4	0.200	0.656	28.510	28.521	0.212	1.770	0.743	60.200
5	0.250	0.820	35.650	35.650	0.281	0.060	0.788	78.300
6	0.300	0.984	13.070	13.120	0.368	8.010	2.805	81.200
7	0.350	1.148	19.000	19.007	0.458	1.070	2.410	99.800
8	0.400	1.312	26.800	26.761	0.479	-6.220	1.790	100.100
9	0.450	1.476	33.050	33.036	0.526	-2.190	1.592	110.800
10	0.500	1.640	33.830	33.842	0.536	1.900	1.584	95.200
11	0.550	1.804	37.030	37.042	0.674	1.900	1.820	107.000
12	0.600	1.968	35.300	35.302	0.823	0.360	2.331	105.100
13	0.650	2.133	32.670	32.670	0.933	-0.040	2.856	95.100
14	0.700	2.297	29.820	29.822	0.975	0.300	3.269	105.500
15	0.750	2.461	30.540	30.544	1.029	0.610	3.369	99.500
16	0.800	2.625	32.920	32.920	0.976	-0.030	2.965	88.700
17	0.850	2.789	34.220	34.222	0.820	0.250	2.396	101.900
18	0.900	2.953	35.610	35.611	0.678	0.210	1.904	100.200
19	0.950	3.117	34.730	34.729	0.513	-0.090	1.477	97.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	31.750	31.750	0.414	-0.060	1.304	109.200
21	1.050	3.445	28.480	28.481	0.307	0.160	1.078	105.800
22	1.100	3.609	23.710	23.711	0.245	0.130	1.033	102.800
23	1.150	3.773	20.410	20.409	0.237	-0.090	1.161	103.800
24	1.200	3.937	16.940	16.939	0.262	-0.140	1.547	102.700
25	1.250	4.101	14.550	14.548	0.312	-0.280	2.145	97.700
26	1.300	4.265	15.150	15.153	0.381	0.470	2.514	99.400
27	1.350	4.429	22.980	22.985	0.507	0.800	2.206	91.900
28	1.400	4.593	31.110	31.114	0.616	0.620	1.980	109.100
29	1.450	4.757	35.130	35.127	0.726	-0.460	2.067	114.400
30	1.500	4.921	35.040	35.030	0.736	-1.570	2.101	98.900
31	1.550	5.085	34.040	34.012	0.650	-4.550	1.911	110.000
32	1.600	5.249	32.720	32.688	0.568	-5.130	1.738	87.700
33	1.650	5.413	31.180	31.170	0.584	-1.540	1.874	84.900
34	1.700	5.577	29.650	29.648	0.625	-0.370	2.108	86.800
35	1.750	5.741	24.950	24.941	0.562	-1.450	2.253	77.900
36	1.800	5.905	17.960	17.926	0.570	-5.380	3.180	77.200
37	1.850	6.069	13.230	13.224	0.461	-0.960	3.486	64.200
38	1.900	6.234	18.180	18.182	0.445	0.250	2.448	61.000
39	1.950	6.398	15.620	15.637	0.391	2.740	2.500	52.200
40	2.000	6.562	12.370	12.423	0.317	8.420	2.552	58.000
41	2.050	6.726	28.920	28.935	0.421	2.400	1.455	47.700
42	2.100	6.890	21.370	21.405	0.374	5.550	1.747	43.400
43	2.150	7.054	21.660	21.689	0.405	4.670	1.867	41.900
44	2.200	7.218	33.780	33.787	0.176	1.110	0.521	43.800
45	2.250	7.382	27.390	27.393	0.077	0.490	0.281	37.000
46	2.300	7.546	41.280	41.284	0.113	0.710	0.274	27.400
47	2.350	7.710	46.600	46.606	0.345	0.950	0.740	34.000
48	2.400	7.874	36.610	36.624	0.707	2.220	1.930	21.900
49	2.450	8.038	64.030	64.039	0.712	1.430	1.112	32.300
50	2.500	8.202	14.320	14.317	0.789	-0.550	5.511	44.200
51	2.550	8.366	36.270	36.295	1.700	3.960	4.684	38.100
52	2.600	8.530	53.280	53.300	1.067	3.210	2.002	42.200
53	2.650	8.694	15.400	15.391	1.454	-1.520	9.447	51.000
54	2.700	8.858	77.070	77.096	0.328	4.130	0.425	52.000
55	2.750	9.022	92.790	92.791	0.495	0.120	0.533	55.700
56	2.800	9.186	87.770	87.787	0.464	2.700	0.529	62.900
57	2.850	9.350	83.430	83.430	0.585	0.050	0.701	64.300
58	2.900	9.514	51.850	51.901	0.792	8.140	1.526	73.900
59	2.950	9.678	30.490	30.492	0.718	0.340	2.355	79.100
60	3.000	9.842	28.980	28.977	0.486	-0.520	1.677	75.900
61	3.050	10.006	29.340	29.340	0.399	-0.020	1.360	82.900
62	3.100	10.170	32.280	32.278	0.456	-0.320	1.413	85.900
63	3.150	10.335	35.130	35.133	0.479	0.410	1.363	83.300
64	3.200	10.499	33.890	33.887	0.512	-0.450	1.511	80.400
65	3.250	10.663	28.980	28.952	0.523	-4.520	1.806	91.100
66	3.300	10.827	23.930	23.886	0.469	-7.020	1.963	99.200
67	3.350	10.991	22.810	22.767	0.319	-6.900	1.401	89.000
68	3.400	11.155	19.050	19.009	0.198	-6.560	1.042	94.500
69	3.450	11.319	14.730	14.705	0.229	-4.030	1.557	100.700
70	3.500	11.483	14.440	14.493	0.194	8.490	1.339	93.700
71	3.550	11.647	13.150	13.305	0.238	24.880	1.789	97.400
72	3.600	11.811	15.650	16.134	0.337	77.540	2.089	103.800
73	3.650	11.975	23.550	24.373	0.411	131.800	1.686	96.200
74	3.700	12.139	28.640	28.663	0.500	3.730	1.744	99.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	28.850	29.033	0.585	29.370	2.015	95.700
76	3.800	12.467	30.330	30.311	0.600	-3.110	1.980	97.700
77	3.850	12.631	23.480	23.421	0.565	-9.420	2.412	101.100
78	3.900	12.795	17.120	17.074	0.541	-7.380	3.169	91.400
79	3.950	12.959	13.930	13.970	0.479	6.410	3.429	92.100
80	4.000	13.123	14.220	14.274	0.544	8.650	3.811	87.800
81	4.050	13.287	16.890	17.003	0.596	18.030	3.505	87.900
82	4.100	13.451	27.760	27.943	0.604	29.360	2.162	97.300
83	4.150	13.615	47.480	47.435	0.649	-7.150	1.368	92.300
84	4.200	13.779	37.240	37.164	0.689	-12.100	1.854	83.100
85	4.250	13.943	28.900	28.830	0.772	-11.190	2.678	89.600
86	4.300	14.107	27.580	27.536	0.681	-7.060	2.473	69.500
87	4.350	14.271	22.500	22.473	0.680	-4.260	3.026	69.000
88	4.400	14.436	17.960	17.956	0.618	-0.650	3.442	67.000
89	4.450	14.600	12.600	12.591	0.610	-1.390	4.845	62.500
90	4.500	14.764	12.540	12.528	0.484	-1.990	3.863	76.700
91	4.550	14.928	11.690	11.722	0.459	5.120	3.916	68.300
92	4.600	15.092	7.760	7.869	0.280	17.480	3.558	62.100
93	4.650	15.256	14.810	14.865	0.337	8.770	2.267	62.900
94	4.700	15.420	27.590	27.611	0.539	3.360	1.952	55.300
95	4.750	15.584	15.350	15.343	0.506	-1.170	3.298	40.600
96	4.800	15.748	6.460	6.555	0.475	15.240	7.246	40.900
97	4.850	15.912	29.220	29.241	0.569	3.420	1.946	33.400
98	4.900	16.076	41.360	41.377	0.675	2.780	1.631	48.300
99	4.950	16.240	27.690	27.732	0.884	6.790	3.188	46.200
100	5.000	16.404	25.760	25.771	0.777	1.780	3.015	43.700
101	5.050	16.568	9.990	10.014	0.558	3.770	5.572	44.700
102	5.100	16.732	8.190	8.205	0.320	2.440	3.900	46.300
103	5.150	16.896	5.380	5.439	0.300	9.450	5.516	50.100
104	5.200	17.060	6.360	6.388	0.264	4.530	4.133	56.200
105	5.250	17.224	6.250	6.275	0.241	3.940	3.841	59.900
106	5.300	17.388	19.410	19.419	0.293	1.410	1.509	67.200
107	5.350	17.552	10.730	10.769	0.387	6.210	3.594	71.500
108	5.400	17.716	9.620	9.709	0.484	14.300	4.985	68.700
109	5.450	17.880	17.180	17.200	0.544	3.210	3.163	71.700
110	5.500	18.044	12.510	12.531	0.526	3.300	4.198	74.700
111	5.550	18.208	11.730	11.739	0.456	1.450	3.884	79.100
112	5.600	18.372	8.570	8.581	0.329	1.750	3.834	79.000
113	5.650	18.537	12.270	12.269	0.314	-0.100	2.559	79.700
114	5.700	18.701	17.740	17.738	0.331	-0.360	1.866	86.400
115	5.750	18.865	22.580	22.574	0.495	-1.000	2.193	92.600
116	5.800	19.029	24.880	24.881	0.591	0.130	2.375	91.900
117	5.850	19.193	24.980	25.007	0.671	4.380	2.683	92.400
118	5.900	19.357	24.380	24.405	0.661	3.950	2.708	91.600
119	5.950	19.521	21.950	21.996	0.633	7.440	2.878	0.000
120	6.000	19.685	20.500	20.575	0.613	12.040	2.979	0.000
121	6.050	19.849	21.300	21.467	0.596	26.780	2.776	0.000
122	6.100	20.013	21.840	21.940	0.617	16.030	2.812	0.000
123	6.150	20.177	21.580	21.677	0.632	15.490	2.916	0.000
124	6.200	20.341	20.910	21.079	0.668	27.080	3.169	0.000
125	6.250	20.505	22.430	22.614	0.687	29.430	3.038	0.000
126	6.300	20.669	22.350	22.515	0.791	26.490	3.513	0.000
127	6.350	20.833	22.790	22.894	0.910	16.720	3.975	0.000
128	6.400	20.997	23.550	23.690	0.962	22.440	4.061	0.000
129	6.450	21.161	23.220	23.337	0.964	18.690	4.131	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	20.870	20.896	1.057	4.110	5.058	0.000
131	6.550	21.489	17.690	17.689	0.750	-0.240	4.240	0.000
132	6.600	21.653	94.070	94.015	2.886	-8.780	3.070	0.000
133	6.650	21.817	181.380	181.387	0.000	1.120	0.000	0.000
134	6.700	21.981	465.710	465.722	0.000	1.960	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221654
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-6
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	09:21
CPT File:	13-53075_GP16-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722343.270
Northing / Lat:	4294347.370
Elevation:	145.200
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	9.500	9.514	0.001	2.230	0.011	35.900
2	0.100	0.328	20.630	20.648	0.038	2.960	0.184	39.400
3	0.150	0.492	27.070	27.088	0.078	2.910	0.288	53.300
4	0.200	0.656	45.640	45.669	0.149	4.600	0.326	54.000
5	0.250	0.820	52.540	52.559	0.383	3.020	0.729	72.700
6	0.300	0.984	26.460	26.509	0.532	7.810	2.007	91.100
7	0.350	1.148	22.500	22.513	0.621	2.040	2.758	95.700
8	0.400	1.312	18.690	18.689	0.581	-0.230	3.109	81.200
9	0.450	1.476	19.690	19.692	0.432	0.380	2.194	85.200
10	0.500	1.640	28.260	28.265	0.378	0.860	1.337	91.200
11	0.550	1.804	39.190	39.207	0.375	2.720	0.956	92.500
12	0.600	1.968	39.500	39.513	0.445	2.140	1.126	99.200
13	0.650	2.133	41.440	41.450	0.827	1.560	1.995	105.500
14	0.700	2.297	43.910	43.929	1.137	3.060	2.588	94.600
15	0.750	2.461	46.270	46.289	1.442	3.020	3.115	98.900
16	0.800	2.625	52.260	52.273	1.569	2.120	3.002	99.000
17	0.850	2.789	47.420	47.428	1.433	1.210	3.021	89.600
18	0.900	2.953	46.030	46.038	1.151	1.210	2.500	90.600
19	0.950	3.117	42.810	42.812	0.855	0.380	1.997	95.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	37.650	37.651	0.670	0.220	1.779	77.400
21	1.050	3.445	29.980	29.978	0.574	-0.380	1.915	81.200
22	1.100	3.609	23.590	23.586	0.525	-0.570	2.226	87.200
23	1.150	3.773	16.970	16.965	0.446	-0.880	2.629	72.800
24	1.200	3.937	10.090	10.083	0.311	-1.070	3.084	77.200
25	1.250	4.101	6.760	6.752	0.278	-1.210	4.117	58.600
26	1.300	4.265	7.490	7.487	0.175	-0.410	2.337	55.400
27	1.350	4.429	13.400	13.398	0.187	-0.350	1.396	48.100
28	1.400	4.593	37.470	37.490	0.460	3.240	1.227	41.700
29	1.450	4.757	22.180	22.191	0.342	1.830	1.541	60.100
30	1.500	4.921	27.260	27.293	0.312	5.280	1.143	74.100
31	1.550	5.085	61.860	61.877	0.349	2.740	0.564	75.000
32	1.600	5.249	70.600	70.659	0.357	9.470	0.505	75.200
33	1.650	5.413	72.050	72.299	0.577	39.870	0.798	79.500
34	1.700	5.577	59.950	60.215	0.628	42.390	1.043	81.900
35	1.750	5.741	67.170	67.338	0.518	26.920	0.769	87.400
36	1.800	5.905	82.510	82.656	0.586	23.360	0.709	92.100
37	1.850	6.069	81.920	82.039	0.743	19.000	0.906	77.100
38	1.900	6.234	31.250	31.322	0.715	11.510	2.283	80.300
39	1.950	6.398	32.390	32.416	0.505	4.170	1.558	100.800
40	2.000	6.562	32.230	32.241	0.230	1.690	0.713	78.100
41	2.050	6.726	14.370	14.363	0.142	-1.190	0.989	85.200
42	2.100	6.890	7.810	7.801	0.067	-1.470	0.859	80.800
43	2.150	7.054	5.580	5.573	0.043	-1.140	0.772	68.200
44	2.200	7.218	5.090	5.087	0.133	-0.540	2.615	62.400
45	2.250	7.382	4.910	4.909	0.160	-0.220	3.260	51.400
46	2.300	7.546	5.200	5.199	0.245	-0.240	4.713	45.900
47	2.350	7.710	9.420	9.421	0.256	0.230	2.717	42.900
48	2.400	7.874	8.370	8.372	0.353	0.350	4.216	40.600
49	2.450	8.038	18.380	18.402	0.306	3.480	1.663	41.100
50	2.500	8.202	29.390	29.405	0.575	2.400	1.955	37.700
51	2.550	8.366	15.940	15.953	0.613	2.080	3.843	46.200
52	2.600	8.530	8.980	8.986	0.539	0.900	5.998	43.800
53	2.650	8.694	7.410	7.438	0.350	4.420	4.706	41.600
54	2.700	8.858	10.290	10.301	0.258	1.790	2.505	32.000
55	2.750	9.022	22.030	22.046	0.294	2.520	1.334	30.500
56	2.800	9.186	26.400	26.434	0.265	5.510	1.002	25.500
57	2.850	9.350	13.590	13.600	0.207	1.600	1.522	18.100
58	2.900	9.514	29.240	29.262	0.159	3.530	0.543	23.300
59	2.950	9.678	51.280	51.328	0.240	7.730	0.468	22.900
60	3.000	9.842	70.800	70.867	0.516	10.750	0.728	21.900
61	3.050	10.006	57.920	58.042	0.670	19.620	1.154	20.300
62	3.100	10.170	47.910	47.939	0.740	4.710	1.544	28.300
63	3.150	10.335	46.130	46.146	0.568	2.590	1.231	33.600
64	3.200	10.499	27.520	27.529	0.527	1.380	1.914	38.600
65	3.250	10.663	57.710	57.721	0.671	1.700	1.162	42.200
66	3.300	10.827	92.930	92.933	1.268	0.410	1.364	35.000
67	3.350	10.991	117.780	117.801	1.728	3.310	1.467	57.300
68	3.400	11.155	59.370	59.439	1.815	11.010	3.054	69.000
69	3.450	11.319	26.610	26.761	0.936	24.230	3.498	68.800
70	3.500	11.483	17.960	18.061	0.542	16.220	3.001	68.200
71	3.550	11.647	26.600	26.658	0.380	9.280	1.425	75.100
72	3.600	11.811	25.540	25.570	0.425	4.820	1.662	83.000
73	3.650	11.975	28.100	28.122	0.469	3.460	1.668	90.300
74	3.700	12.139	22.340	22.351	0.456	1.820	2.040	91.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	16.590	16.600	0.380	1.570	2.289	84.700
76	3.800	12.467	15.160	15.169	0.357	1.420	2.354	74.100
77	3.850	12.631	22.000	22.007	0.374	1.160	1.699	84.100
78	3.900	12.795	26.660	26.669	0.418	1.410	1.567	90.800
79	3.950	12.959	29.350	29.350	0.439	-0.080	1.496	88.100
80	4.000	13.123	28.060	28.050	0.436	-1.660	1.554	96.700
81	4.050	13.287	25.650	25.627	0.464	-3.710	1.811	104.600
82	4.100	13.451	21.340	21.308	0.405	-5.180	1.901	88.400
83	4.150	13.615	16.280	16.240	0.531	-6.380	3.270	110.000
84	4.200	13.779	19.800	19.759	0.528	-6.550	2.672	89.200
85	4.250	13.943	15.050	15.025	0.536	-3.940	3.567	90.600
86	4.300	14.107	16.410	16.414	0.594	0.610	3.619	91.300
87	4.350	14.271	16.030	16.049	0.778	2.990	4.848	104.100
88	4.400	14.436	16.230	16.256	0.972	4.100	5.979	82.800
89	4.450	14.600	26.200	26.231	0.909	4.910	3.465	92.900
90	4.500	14.764	15.180	15.197	0.672	2.660	4.422	66.200
91	4.550	14.928	18.650	18.719	0.434	11.130	2.318	52.100
92	4.600	15.092	17.240	17.261	0.399	3.430	2.312	47.200
93	4.650	15.256	16.390	16.417	0.410	4.380	2.497	51.000
94	4.700	15.420	8.700	8.714	0.207	2.250	2.375	47.400
95	4.750	15.584	17.200	17.224	0.130	3.840	0.755	54.000
96	4.800	15.748	29.090	29.113	0.097	3.660	0.333	60.500
97	4.850	15.912	22.480	22.489	0.102	1.500	0.454	52.600
98	4.900	16.076	45.840	45.853	0.048	2.140	0.105	45.700
99	4.950	16.240	29.820	29.844	0.216	3.920	0.724	44.600
100	5.000	16.404	8.180	8.183	0.050	0.500	0.611	40.000
101	5.050	16.568	26.650	26.660	0.478	1.560	1.793	40.300
102	5.100	16.732	29.320	29.324	0.473	0.680	1.613	48.300
103	5.150	16.896	124.120	124.136	1.149	2.610	0.926	44.500
104	5.200	17.060	159.270	159.321	1.754	8.160	1.101	43.600
105	5.250	17.224	93.980	94.024	2.146	7.040	2.282	46.000
106	5.300	17.388	49.770	49.795	1.793	4.030	3.601	56.900
107	5.350	17.552	34.010	34.026	1.712	2.500	5.032	51.100
108	5.400	17.716	43.240	43.249	1.753	1.510	4.053	57.600
109	5.450	17.880	53.810	53.852	1.645	6.680	3.055	49.900
110	5.500	18.044	43.980	44.008	2.034	4.470	4.622	61.900
111	5.550	18.208	77.280	77.282	1.890	0.300	2.446	63.700
112	5.600	18.372	21.110	21.105	2.041	-0.750	9.671	68.600
113	5.650	18.537	8.350	8.381	1.203	4.960	14.354	80.600
114	5.700	18.701	11.280	11.289	0.573	1.510	5.076	77.500
115	5.750	18.865	7.890	7.908	0.220	2.860	2.782	84.000
116	5.800	19.029	9.240	9.266	0.241	4.160	2.601	101.700
117	5.850	19.193	13.180	13.179	0.324	-0.100	2.458	85.600
118	5.900	19.357	18.020	18.014	0.488	-0.990	2.709	77.500
119	5.950	19.521	21.510	21.497	0.708	-2.070	3.293	84.900
120	6.000	19.685	24.220	24.208	0.889	-1.870	3.672	78.900
121	6.050	19.849	25.350	25.367	0.942	2.680	3.714	91.800
122	6.100	20.013	26.500	26.533	0.953	5.310	3.592	86.300
123	6.150	20.177	26.840	26.882	1.002	6.700	3.727	85.800
124	6.200	20.341	27.320	27.359	1.055	6.320	3.856	78.100
125	6.250	20.505	30.470	30.519	1.027	7.810	3.365	79.700
126	6.300	20.669	31.510	31.554	1.073	6.970	3.401	80.200
127	6.350	20.833	26.510	26.535	1.031	3.970	3.885	87.300
128	6.400	20.997	24.770	24.814	0.941	7.040	3.792	95.000
129	6.450	21.161	23.830	23.880	0.849	8.070	3.555	93.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	23.650	23.700	0.870	8.000	3.671	87.000
131	6.550	21.489	27.400	27.467	1.006	10.680	3.663	84.100
132	6.600	21.653	32.190	32.239	1.077	7.860	3.341	88.700
133	6.650	21.817	30.450	30.496	1.070	7.330	3.509	90.600
134	6.700	21.981	32.870	32.956	0.832	13.780	2.525	93.700
135	6.750	22.145	42.460	42.559	0.607	15.820	1.426	85.100
136	6.800	22.309	47.050	47.100	0.521	7.970	1.106	88.000
137	6.850	22.473	47.140	47.181	0.467	6.560	0.990	84.200
138	6.900	22.638	42.640	42.653	0.558	2.110	1.308	84.900
139	6.950	22.802	36.620	36.628	0.722	1.320	1.971	85.000
140	7.000	22.966	30.200	30.206	0.833	0.990	2.758	0.000
141	7.050	23.130	29.100	29.112	0.850	1.870	2.920	0.000
142	7.100	23.294	29.060	29.079	0.907	3.110	3.119	0.000
143	7.150	23.458	32.780	32.804	0.921	3.820	2.808	0.000
144	7.200	23.622	34.770	34.796	0.912	4.100	2.621	0.000
145	7.250	23.786	36.660	36.683	1.000	3.730	2.726	0.000
146	7.300	23.950	27.760	27.778	0.968	2.850	3.485	0.000
147	7.350	24.114	28.540	28.572	0.779	5.090	2.726	0.000
148	7.400	24.278	40.480	40.563	0.566	13.290	1.395	0.000
149	7.450	24.442	39.370	39.430	0.628	9.590	1.593	0.000
150	7.500	24.606	31.010	31.057	0.783	7.590	2.521	0.000
151	7.550	24.770	29.730	29.770	0.854	6.430	2.869	0.000
152	7.600	24.934	30.860	30.900	0.918	6.440	2.971	0.000
153	7.650	25.098	29.670	29.719	1.078	7.800	3.627	0.000
154	7.700	25.262	25.950	26.001	0.000	8.110	0.000	0.000
155	7.750	25.426	468.560	468.689	0.000	20.610	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221656
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-7
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	09:21
CPT File:	13-53075_GP16-7.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722354.472
Northing / Lat:	4294334.149
Elevation:	146.128
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	3.060	3.061	0.001	0.150	0.033	34.800
2	0.100	0.328	11.150	11.152	0.026	0.320	0.233	35.300
3	0.150	0.492	12.810	12.815	0.061	0.730	0.476	54.200
4	0.200	0.656	17.840	17.844	0.057	0.630	0.319	67.600
5	0.250	0.820	32.130	32.134	0.125	0.690	0.389	83.300
6	0.300	0.984	43.280	43.287	0.246	1.110	0.568	83.900
7	0.350	1.148	14.820	14.829	0.355	1.430	2.394	90.000
8	0.400	1.312	15.340	15.345	0.397	0.850	2.587	77.500
9	0.450	1.476	17.840	17.837	0.326	-0.500	1.828	87.600
10	0.500	1.640	26.740	26.737	0.445	-0.520	1.664	92.100
11	0.550	1.804	34.200	34.198	0.460	-0.350	1.345	92.800
12	0.600	1.968	25.930	25.935	0.482	0.770	1.859	99.100
13	0.650	2.133	21.110	21.114	0.405	0.590	1.918	95.500
14	0.700	2.297	18.250	18.254	0.293	0.650	1.605	105.800
15	0.750	2.461	20.990	20.993	0.265	0.440	1.262	100.900
16	0.800	2.625	28.750	28.753	0.354	0.530	1.231	106.900
17	0.850	2.789	39.890	39.896	0.577	0.920	1.446	99.700
18	0.900	2.953	44.690	44.696	0.772	0.920	1.727	99.000
19	0.950	3.117	44.850	44.854	0.925	0.630	2.062	90.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	42.800	42.802	1.088	0.390	2.542	90.900
21	1.050	3.445	36.750	36.753	1.099	0.540	2.990	98.500
22	1.100	3.609	28.340	28.342	1.044	0.300	3.684	92.800
23	1.150	3.773	27.320	27.323	0.913	0.410	3.342	89.000
24	1.200	3.937	25.420	25.421	0.719	0.220	2.828	82.200
25	1.250	4.101	23.210	23.208	0.647	-0.250	2.788	92.900
26	1.300	4.265	20.460	20.457	0.579	-0.510	2.830	86.200
27	1.350	4.429	20.590	20.585	0.450	-0.850	2.186	69.800
28	1.400	4.593	23.380	23.375	0.355	-0.880	1.519	51.300
29	1.450	4.757	35.230	35.226	0.505	-0.650	1.434	50.800
30	1.500	4.921	27.870	27.868	0.439	-0.340	1.575	32.900
31	1.550	5.085	16.980	16.981	0.399	0.150	2.350	32.100
32	1.600	5.249	4.920	4.919	0.275	-0.090	5.590	29.100
33	1.650	5.413	3.290	3.289	0.229	-0.240	6.964	35.200
34	1.700	5.577	21.420	21.427	0.234	1.080	1.092	44.900
35	1.750	5.741	23.760	23.765	0.268	0.850	1.128	30.100
36	1.800	5.905	13.790	13.792	0.159	0.390	1.153	37.700
37	1.850	6.069	8.410	8.414	0.083	0.720	0.986	43.800
38	1.900	6.234	14.200	14.206	0.170	1.000	1.197	28.000
39	1.950	6.398	16.930	16.940	0.214	1.680	1.263	35.800
40	2.000	6.562	22.900	22.911	0.719	1.800	3.138	27.000
41	2.050	6.726	51.310	51.315	0.898	0.850	1.750	31.400
42	2.100	6.890	22.220	22.226	0.734	0.920	3.302	30.700
43	2.150	7.054	12.790	12.832	0.409	6.790	3.187	29.700
44	2.200	7.218	13.620	13.630	0.317	1.630	2.326	32.000
45	2.250	7.382	10.620	10.632	0.288	1.990	2.709	41.600
46	2.300	7.546	10.790	10.798	0.231	1.310	2.139	63.500
47	2.350	7.710	11.180	11.184	0.233	0.690	2.083	68.200
48	2.400	7.874	16.190	16.202	0.337	1.900	2.080	75.400
49	2.450	8.038	27.250	27.281	0.517	5.040	1.895	85.700
50	2.500	8.202	27.670	27.685	0.533	2.480	1.925	81.900
51	2.550	8.366	23.400	23.397	0.469	-0.470	2.005	86.100
52	2.600	8.530	20.370	20.345	0.393	-4.080	1.932	83.100
53	2.650	8.694	17.410	17.381	0.337	-4.670	1.939	88.800
54	2.700	8.858	15.220	15.186	0.381	-5.380	2.509	77.000
55	2.750	9.022	17.280	17.239	0.398	-6.550	2.309	74.800
56	2.800	9.186	18.500	18.456	0.434	-7.090	2.352	63.200
57	2.850	9.350	20.490	20.443	0.432	-7.450	2.113	55.600
58	2.900	9.514	47.740	47.699	0.333	-6.490	0.698	49.700
59	2.950	9.678	41.060	41.060	0.400	-0.020	0.974	48.200
60	3.000	9.842	27.830	27.825	0.505	-0.750	1.815	40.200
61	3.050	10.006	13.330	13.326	0.387	-0.630	2.904	32.300
62	3.100	10.170	7.600	7.609	0.393	1.440	5.165	36.700
63	3.150	10.335	12.130	12.141	0.260	1.840	2.141	35.900
64	3.200	10.499	5.950	5.956	0.230	1.040	3.861	44.700
65	3.250	10.663	8.380	8.377	0.150	-0.470	1.791	41.400
66	3.300	10.827	21.240	21.244	0.098	0.720	0.461	37.200
67	3.350	10.991	16.770	16.777	0.131	1.070	0.781	45.600
68	3.400	11.155	10.160	10.166	0.252	0.920	2.479	46.600
69	3.450	11.319	76.690	76.696	1.200	0.980	1.565	61.800
70	3.500	11.483	76.360	76.356	0.424	-0.640	0.555	42.200
71	3.550	11.647	55.820	55.840	1.410	3.140	2.525	36.100
72	3.600	11.811	12.560	12.614	1.685	8.720	13.358	20.600
73	3.650	11.975	57.940	57.992	1.876	8.350	3.235	24.200
74	3.700	12.139	94.590	94.643	1.745	8.440	1.844	21.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	77.720	77.756	1.796	5.800	2.310	13.200
76	3.800	12.467	47.260	47.288	1.567	4.550	3.314	25.200
77	3.850	12.631	61.690	61.722	1.165	5.120	1.887	22.500
78	3.900	12.795	55.820	55.856	1.621	5.690	2.902	31.700
79	3.950	12.959	47.080	47.104	1.272	3.910	2.700	27.400
80	4.000	13.123	78.030	78.054	1.621	3.770	2.077	49.200
81	4.050	13.287	37.410	37.443	1.232	5.250	3.290	37.900
82	4.100	13.451	43.930	43.961	1.257	4.930	2.859	28.900
83	4.150	13.615	69.720	69.751	0.935	4.940	1.340	51.200
84	4.200	13.779	61.790	61.819	0.941	4.630	1.522	41.300
85	4.250	13.943	43.750	43.775	0.691	4.010	1.579	48.100
86	4.300	14.107	23.360	23.377	0.684	2.740	2.926	56.400
87	4.350	14.271	9.680	9.694	0.613	2.250	6.323	54.700
88	4.400	14.436	8.350	8.361	0.459	1.840	5.489	60.000
89	4.450	14.600	5.700	5.712	0.251	1.990	4.394	51.300
90	4.500	14.764	9.670	9.688	0.252	2.910	2.601	57.400
91	4.550	14.928	10.370	10.399	0.819	4.570	7.876	49.100
92	4.600	15.092	24.120	24.136	1.160	2.630	4.806	47.800
93	4.650	15.256	64.330	64.347	1.537	2.770	2.389	53.800
94	4.700	15.420	34.450	34.461	1.462	1.750	4.242	53.400
95	4.750	15.584	19.000	19.009	0.958	1.490	5.040	44.000
96	4.800	15.748	13.430	13.442	0.491	1.900	3.653	59.100
97	4.850	15.912	11.100	11.109	0.324	1.400	2.917	71.800
98	4.900	16.076	7.320	7.352	0.223	5.150	3.033	69.500
99	4.950	16.240	7.810	7.865	0.109	8.860	1.386	87.700
100	5.000	16.404	8.020	8.079	0.112	9.410	1.386	78.500
101	5.050	16.568	8.030	8.091	0.116	9.840	1.434	93.500
102	5.100	16.732	8.150	8.220	0.174	11.280	2.117	87.800
103	5.150	16.896	15.630	15.675	0.236	7.180	1.506	86.900
104	5.200	17.060	17.280	17.324	0.322	7.050	1.859	95.300
105	5.250	17.224	17.710	17.757	0.393	7.480	2.213	80.800
106	5.300	17.388	19.630	19.686	0.409	8.900	2.078	88.600
107	5.350	17.552	19.910	19.992	0.369	13.180	1.846	84.500
108	5.400	17.716	20.080	20.175	0.367	15.150	1.819	97.800
109	5.450	17.880	19.890	19.994	0.413	16.730	2.066	88.500
110	5.500	18.044	18.800	18.909	0.454	17.480	2.401	80.200
111	5.550	18.208	17.910	18.023	0.521	18.160	2.891	93.400
112	5.600	18.372	17.290	17.407	0.537	18.740	3.085	81.700
113	5.650	18.537	17.440	17.588	0.551	23.780	3.133	84.000
114	5.700	18.701	16.450	16.600	0.540	24.010	3.253	99.600
115	5.750	18.865	15.870	16.019	0.546	23.800	3.409	95.000
116	5.800	19.029	15.620	15.769	0.544	23.850	3.450	70.700
117	5.850	19.193	15.680	15.827	0.594	23.580	3.753	83.000
118	5.900	19.357	17.440	17.593	0.661	24.560	3.757	76.900
119	5.950	19.521	18.830	18.986	0.755	24.980	3.977	77.900
120	6.000	19.685	19.290	19.437	0.805	23.500	4.142	77.100
121	6.050	19.849	19.480	19.630	0.867	23.950	4.417	88.400
122	6.100	20.013	20.120	20.269	0.881	23.940	4.346	83.200
123	6.150	20.177	20.080	20.231	0.932	24.220	4.607	74.400
124	6.200	20.341	20.270	20.417	0.909	23.590	4.452	96.400
125	6.250	20.505	20.500	20.652	0.767	24.360	3.714	82.300
126	6.300	20.669	19.390	19.550	0.733	25.690	3.749	87.900
127	6.350	20.833	19.140	19.287	0.655	23.600	3.396	98.600
128	6.400	20.997	17.680	17.830	0.635	24.080	3.561	82.200
129	6.450	21.161	19.040	19.201	0.660	25.760	3.437	94.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	22.570	22.733	0.735	26.130	3.233	81.700
131	6.550	21.489	24.220	24.365	0.714	23.220	2.930	76.900
132	6.600	21.653	21.910	22.043	0.592	21.350	2.686	84.600
133	6.650	21.817	26.600	26.749	0.549	23.850	2.052	88.700
134	6.700	21.981	25.320	25.416	0.559	15.350	2.199	86.500
135	6.750	22.145	26.140	26.233	0.588	14.930	2.241	77.900
136	6.800	22.309	26.710	26.792	0.531	13.120	1.982	80.500
137	6.850	22.473	27.350	27.422	0.543	11.590	1.980	82.200
138	6.900	22.638	25.920	25.982	0.550	9.970	2.117	77.300
139	6.950	22.802	23.820	23.878	0.525	9.290	2.199	83.700
140	7.000	22.966	22.290	22.343	0.465	8.550	2.081	85.500
141	7.050	23.130	22.930	22.981	0.379	8.150	1.649	75.000
142	7.100	23.294	22.800	22.848	0.292	7.660	1.278	80.600
143	7.150	23.458	20.800	20.844	0.281	7.090	1.348	81.400
144	7.200	23.622	19.380	19.422	0.267	6.730	1.375	80.700
145	7.250	23.786	18.010	18.051	0.253	6.510	1.402	87.900
146	7.300	23.950	17.660	17.700	0.208	6.400	1.175	67.600
147	7.350	24.114	16.560	16.599	0.203	6.260	1.223	84.200
148	7.400	24.278	14.040	14.080	0.203	6.480	1.442	86.500
149	7.450	24.442	13.640	13.683	0.170	6.900	1.242	75.300
150	7.500	24.606	13.910	13.954	0.162	7.030	1.161	74.500
151	7.550	24.770	11.660	11.705	0.180	7.130	1.538	71.500
152	7.600	24.934	8.980	9.028	0.219	7.730	2.426	73.500
153	7.650	25.098	10.680	10.781	0.281	16.130	2.607	72.000
154	7.700	25.262	9.640	9.734	0.290	15.100	2.979	79.400
155	7.750	25.426	10.760	10.852	0.300	14.740	2.764	89.500
156	7.800	25.590	10.790	10.879	0.265	14.290	2.436	87.000
157	7.850	25.754	12.460	12.549	0.185	14.220	1.474	78.700
158	7.900	25.918	14.610	14.697	0.237	13.970	1.613	74.800
159	7.950	26.082	12.720	12.807	0.229	13.930	1.788	80.500
160	8.000	26.246	10.530	10.621	0.242	14.530	2.279	83.000
161	8.050	26.410	9.710	9.813	0.225	16.450	2.293	80.600
162	8.100	26.574	10.880	10.992	0.272	17.930	2.475	82.400
163	8.150	26.739	11.250	11.367	0.318	18.790	2.797	73.600
164	8.200	26.903	10.370	10.477	0.308	17.210	2.940	83.500
165	8.250	27.067	8.400	8.511	0.279	17.750	3.278	81.100
166	8.300	27.231	8.740	8.848	0.239	17.300	2.701	83.700
167	8.350	27.395	14.990	15.098	0.203	17.230	1.345	83.900
168	8.400	27.559	23.980	24.069	0.195	14.310	0.810	0.000
169	8.450	27.723	24.960	25.031	0.208	11.380	0.831	0.000
170	8.500	27.887	26.520	26.581	0.218	9.840	0.820	0.000
171	8.550	28.051	26.660	26.716	0.262	8.960	0.981	0.000
172	8.600	28.215	23.940	23.990	0.334	8.050	1.392	0.000
173	8.650	28.379	28.770	28.824	0.362	8.630	1.256	0.000
174	8.700	28.543	29.450	29.495	0.352	7.210	1.193	0.000
175	8.750	28.707	31.800	31.841	0.337	6.590	1.058	0.000
176	8.800	28.871	29.080	29.119	0.502	6.320	1.724	0.000
177	8.850	29.035	29.410	29.451	0.610	6.490	2.071	0.000
178	8.900	29.199	39.430	39.473	0.854	6.960	2.163	0.000
179	8.950	29.363	37.660	37.694	0.851	5.380	2.258	0.000
180	9.000	29.527	128.870	128.912	0.877	6.680	0.680	0.000
181	9.050	29.691	288.150	288.190	0.870	6.420	0.302	0.000
182	9.100	29.855	375.870	375.911	0.000	6.540	0.000	0.000
183	9.150	30.019	414.270	414.311	0.000	6.560	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221657
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-16-8
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-23-2013
CPT Time:	08:48
CPT File:	13-53075_GP16-8.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722364.450
Northing / Lat:	4294322.164
Elevation:	146.770
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth m	Depth ft	qc tsf	qt tsf	fs tsf	u ft	Rf %	Gamma cps
1	0.050	0.164	2.360	2.363	0.009	0.410	0.381	25.200
2	0.100	0.328	9.330	9.338	0.005	1.350	0.054	36.100
3	0.150	0.492	12.750	12.748	0.052	-0.260	0.408	45.300
4	0.200	0.656	14.580	14.589	0.081	1.520	0.555	50.000
5	0.250	0.820	22.390	22.399	0.058	1.510	0.259	58.300
6	0.300	0.984	52.790	52.818	0.106	4.460	0.201	64.100
7	0.350	1.148	57.970	58.028	0.245	9.370	0.422	83.300
8	0.400	1.312	26.200	26.215	0.463	2.350	1.766	82.400
9	0.450	1.476	29.970	29.982	0.738	2.000	2.461	95.700
10	0.500	1.640	37.740	37.749	0.813	1.460	2.154	101.200
11	0.550	1.804	50.270	50.290	0.818	3.260	1.627	102.600
12	0.600	1.968	70.000	70.038	0.948	6.090	1.354	89.800
13	0.650	2.133	74.420	74.456	1.125	5.760	1.511	93.900
14	0.700	2.297	73.220	73.234	1.283	2.170	1.752	93.600
15	0.750	2.461	74.480	74.484	1.395	0.710	1.873	95.900
16	0.800	2.625	70.110	70.113	1.230	0.490	1.754	105.700
17	0.850	2.789	55.010	55.010	1.286	-0.060	2.338	92.300
18	0.900	2.953	40.270	40.269	1.050	-0.240	2.607	85.100
19	0.950	3.117	29.870	29.863	0.883	-1.110	2.957	85.700

Layer	Depth m	Depth ft	qc tsf	qt tsf	fs tsf	u ft	Rf %	Gamma cps
20	1.000	3.281	25.590	25.592	0.726	0.340	2.837	95.600
21	1.050	3.445	22.900	22.899	0.607	-0.140	2.651	85.200
22	1.100	3.609	20.020	20.020	0.507	0.080	2.532	93.600
23	1.150	3.773	18.090	18.091	0.361	0.180	1.995	85.300
24	1.200	3.937	16.100	16.096	0.307	-0.570	1.907	84.200
25	1.250	4.101	19.080	19.081	0.361	0.100	1.892	83.100
26	1.300	4.265	30.610	30.614	0.461	0.690	1.506	88.200
27	1.350	4.429	23.030	23.047	0.423	2.750	1.835	83.200
28	1.400	4.593	15.630	15.635	0.498	0.860	3.185	85.400
29	1.450	4.757	11.860	11.857	0.353	-0.500	2.977	82.900
30	1.500	4.921	8.330	8.336	0.278	0.900	3.335	80.000
31	1.550	5.085	11.370	11.374	0.217	0.720	1.908	70.300
32	1.600	5.249	12.700	12.695	0.208	-0.760	1.638	53.200
33	1.650	5.413	9.190	9.208	0.336	2.950	3.649	58.400
34	1.700	5.577	16.520	16.526	0.409	1.000	2.475	50.400
35	1.750	5.741	10.170	10.187	0.503	2.690	4.938	52.900
36	1.800	5.905	11.270	11.277	0.549	1.130	4.868	51.200
37	1.850	6.069	20.540	20.542	0.287	0.360	1.397	43.900
38	1.900	6.234	21.610	21.628	0.355	2.930	1.641	44.900
39	1.950	6.398	32.430	32.440	0.344	1.680	1.060	30.700
40	2.000	6.562	14.680	14.698	0.430	2.870	2.926	34.000
41	2.050	6.726	19.490	19.503	0.407	2.080	2.087	44.600
42	2.100	6.890	24.560	24.561	0.174	0.210	0.708	33.900
43	2.150	7.054	39.810	39.827	0.142	2.650	0.357	39.700
44	2.200	7.218	35.020	35.016	0.321	-0.710	0.917	52.400
45	2.250	7.382	25.040	25.041	0.380	0.240	1.517	55.200
46	2.300	7.546	7.890	7.911	0.396	3.310	5.006	49.100
47	2.350	7.710	10.330	10.384	0.296	8.650	2.851	40.000
48	2.400	7.874	11.270	11.312	0.297	6.770	2.625	49.300
49	2.450	8.038	35.250	35.272	0.436	3.570	1.236	52.700
50	2.500	8.202	27.530	27.563	0.534	5.330	1.937	69.100
51	2.550	8.366	11.820	11.854	0.531	5.520	4.479	57.500
52	2.600	8.530	11.070	11.066	0.319	-0.640	2.883	80.100
53	2.650	8.694	11.230	11.239	0.321	1.500	2.856	76.500
54	2.700	8.858	16.680	16.704	0.326	3.900	1.952	73.500
55	2.750	9.022	13.400	13.356	0.366	-7.070	2.740	92.100
56	2.800	9.186	12.550	12.505	0.427	-7.170	3.415	75.300
57	2.850	9.350	11.400	11.355	0.354	-7.280	3.118	58.900
58	2.900	9.514	12.940	12.883	0.323	-9.060	2.507	41.900
59	2.950	9.678	13.170	13.150	0.363	-3.230	2.760	30.100
60	3.000	9.842	21.080	21.072	0.350	-1.220	1.661	33.200
61	3.050	10.006	29.470	29.484	0.512	2.220	1.737	24.700
62	3.100	10.170	53.490	53.500	1.087	1.670	2.032	24.400
63	3.150	10.335	51.190	51.200	1.070	1.570	2.090	21.400
64	3.200	10.499	24.400	24.386	0.830	-2.190	3.404	19.000
65	3.250	10.663	28.290	28.294	0.629	0.690	2.223	17.000
66	3.300	10.827	39.550	39.629	0.553	12.710	1.395	13.400
67	3.350	10.991	17.060	17.148	0.546	14.100	3.184	20.100
68	3.400	11.155	27.070	27.089	0.592	3.090	2.185	11.200
69	3.450	11.319	34.510	34.530	0.514	3.160	1.489	14.700
70	3.500	11.483	17.210	17.202	0.625	-1.270	3.633	13.400
71	3.550	11.647	13.570	13.584	0.608	2.200	4.476	12.900
72	3.600	11.811	23.430	23.452	1.559	3.450	6.648	12.300
73	3.650	11.975	87.610	87.615	1.415	0.820	1.615	11.800
74	3.700	12.139	78.730	78.732	0.884	0.260	1.123	13.100

Layer	Depth m	Depth ft	qc tsf	qt tsf	fs tsf	u ft	Rf %	Gamma cps
75	3.750	12.303	33.160	33.157	0.762	-0.450	2.298	12.100
76	3.800	12.467	31.830	31.836	0.981	0.910	3.081	14.400
77	3.850	12.631	63.680	63.693	0.474	2.120	0.744	14.600
78	3.900	12.795	26.550	26.550	0.591	-0.030	2.226	19.200
79	3.950	12.959	19.410	19.456	0.980	7.290	5.037	13.800
80	4.000	13.123	15.870	15.868	0.827	-0.370	5.212	18.900
81	4.050	13.287	31.680	31.735	0.190	8.790	0.599	23.800
82	4.100	13.451	34.310	34.318	0.372	1.320	1.084	30.500
83	4.150	13.615	63.530	63.604	0.437	11.810	0.687	34.000
84	4.200	13.779	40.800	40.851	0.628	8.140	1.537	44.300
85	4.250	13.943	17.290	17.327	0.568	5.990	3.278	65.200
86	4.300	14.107	14.110	14.269	0.317	25.400	2.222	81.200
87	4.350	14.271	13.400	13.495	0.261	15.140	1.934	76.600
88	4.400	14.436	16.800	17.082	0.261	45.120	1.528	88.100
89	4.450	14.600	19.880	20.064	0.298	29.550	1.485	106.200
90	4.500	14.764	19.380	19.481	0.337	16.130	1.730	99.900
91	4.550	14.928	17.480	17.646	0.333	26.560	1.887	100.400
92	4.600	15.092	15.650	15.955	0.315	48.790	1.974	95.300
93	4.650	15.256	16.140	16.455	0.331	50.410	2.012	105.400
94	4.700	15.420	15.860	16.011	0.341	24.230	2.130	88.300
95	4.750	15.584	15.420	15.514	0.295	14.990	1.902	101.500
96	4.800	15.748	14.220	14.382	0.261	26.000	1.815	97.700
97	4.850	15.912	13.810	14.021	0.245	33.790	1.747	102.300
98	4.900	16.076	13.110	13.303	0.258	30.980	1.939	95.100
99	4.950	16.240	12.940	13.119	0.279	28.640	2.127	100.300
100	5.000	16.404	12.320	12.487	0.260	26.710	2.082	98.500
101	5.050	16.568	12.930	13.148	0.256	34.950	1.947	100.000
102	5.100	16.732	12.260	12.442	0.242	29.160	1.945	95.800
103	5.150	16.896	11.680	11.844	0.211	26.220	1.782	91.800
104	5.200	17.060	10.990	11.245	0.207	40.800	1.841	94.700
105	5.250	17.224	10.110	10.242	0.179	21.080	1.748	91.900
106	5.300	17.388	9.530	9.650	0.186	19.260	1.927	83.600
107	5.350	17.552	9.510	9.649	0.174	22.200	1.803	89.400
108	5.400	17.716	8.970	9.110	0.163	22.370	1.789	72.800
109	5.450	17.880	8.460	8.657	0.176	31.510	2.033	93.000
110	5.500	18.044	8.720	8.926	0.159	33.030	1.781	87.700
111	5.550	18.208	7.830	7.971	0.153	22.610	1.919	106.600
112	5.600	18.372	8.340	8.382	0.174	6.670	2.076	98.200
113	5.650	18.537	9.510	9.520	0.219	1.570	2.300	94.500
114	5.700	18.701	9.380	9.397	0.266	2.790	2.831	86.500
115	5.750	18.865	9.110	9.111	0.352	0.160	3.863	87.700
116	5.800	19.029	10.370	10.409	0.383	6.180	3.680	98.600
117	5.850	19.193	10.990	11.098	0.379	17.300	3.415	89.700
118	5.900	19.357	10.660	10.660	0.376	0.050	3.527	83.400
119	5.950	19.521	10.970	10.945	0.399	-3.940	3.645	96.600
120	6.000	19.685	12.820	12.782	0.389	-6.040	3.043	99.900
121	6.050	19.849	16.580	16.556	0.422	-3.920	2.549	88.400
122	6.100	20.013	18.210	18.208	0.468	-0.380	2.570	89.200
123	6.150	20.177	18.920	18.937	0.523	2.790	2.762	95.200
124	6.200	20.341	20.290	20.330	0.552	6.460	2.715	95.300
125	6.250	20.505	19.570	19.554	0.547	-2.550	2.797	101.200
126	6.300	20.669	16.780	16.762	0.535	-2.810	3.192	110.800
127	6.350	20.833	16.670	16.670	0.446	0.000	2.675	95.600
128	6.400	20.997	17.630	17.619	0.451	-1.760	2.560	99.100
129	6.450	21.161	19.570	19.544	0.528	-4.190	2.702	90.000

Layer	Depth m	Depth ft	qc tsf	qt tsf	fs tsf	u ft	Rf %	Gamma cps
130	6.500	21.325	21.900	21.869	0.584	-4.900	2.670	100.700
131	6.550	21.489	21.800	21.779	0.514	-3.390	2.360	93.300
132	6.600	21.653	24.270	24.270	0.447	0.080	1.842	85.200
133	6.650	21.817	23.860	23.864	0.472	0.570	1.978	88.400
134	6.700	21.981	19.280	19.265	0.461	-2.370	2.393	93.000
135	6.750	22.145	15.020	15.057	0.447	5.970	2.969	84.800
136	6.800	22.309	14.990	15.107	0.387	18.780	2.562	85.500
137	6.850	22.473	14.290	14.444	0.385	24.640	2.665	87.500
138	6.900	22.638	14.860	15.043	0.419	29.330	2.785	76.600
139	6.950	22.802	16.500	16.733	0.519	37.280	3.102	86.400
140	7.000	22.966	25.850	26.014	0.419	26.320	1.611	85.900
141	7.050	23.130	45.670	45.761	0.453	14.540	0.990	86.800
142	7.100	23.294	57.110	57.126	0.575	2.630	1.007	95.200
143	7.150	23.458	69.780	69.800	0.780	3.220	1.117	84.900
144	7.200	23.622	71.450	71.472	0.966	3.560	1.352	83.800
145	7.250	23.786	78.430	78.454	1.084	3.860	1.382	75.200
146	7.300	23.950	106.600	106.651	1.153	8.140	1.081	80.600
147	7.350	24.114	111.020	111.038	1.205	2.820	1.085	68.900
148	7.400	24.278	109.720	109.726	1.170	1.030	1.066	72.900
149	7.450	24.442	99.490	99.496	1.174	1.030	1.180	0.000
150	7.500	24.606	88.320	88.319	1.116	-0.210	1.264	0.000
151	7.550	24.770	80.830	80.829	0.953	-0.150	1.179	0.000
152	7.600	24.934	77.970	77.971	0.969	0.180	1.243	0.000
153	7.650	25.098	80.340	80.345	0.968	0.880	1.205	0.000
154	7.700	25.262	81.480	81.485	0.971	0.860	1.192	0.000
155	7.750	25.426	77.610	77.609	0.966	-0.230	1.245	0.000
156	7.800	25.590	79.020	79.019	0.895	-0.140	1.133	0.000
157	7.850	25.754	86.570	86.575	0.906	0.820	1.046	0.000
158	7.900	25.918	90.530	90.531	0.913	0.210	1.008	0.000
159	7.950	26.082	88.070	88.070	0.884	0.030	1.004	0.000
160	8.000	26.246	89.140	89.139	0.934	-0.140	1.048	0.000
161	8.050	26.410	99.030	99.040	1.082	1.620	1.092	0.000
162	8.100	26.574	114.800	114.809	2.010	1.420	1.751	0.000
163	8.150	26.739	158.920	158.947	0.000	4.310	0.000	0.000
164	8.200	26.903	572.650	572.686	0.000	5.740	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221489
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-1A
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-30-2014
CPT Time:	16:43
CPT File:	13-53075_GP1C-1A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722013.290
Northing / Lat:	4294219.000
Elevation:	141.190
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	5.050	5.051	0.005	0.150	0.099	34.700
2	0.100	0.328	22.090	22.095	0.004	0.860	0.018	34.300
3	0.150	0.492	18.720	18.724	0.001	0.690	0.005	33.600
4	0.200	0.656	17.440	17.437	0.004	-0.450	0.023	31.000
5	0.250	0.820	18.640	18.641	0.000	0.120	0.000	30.300
6	0.300	0.984	31.430	31.435	0.002	0.790	0.006	32.300
7	0.350	1.148	42.810	42.811	0.002	0.130	0.005	39.800
8	0.400	1.312	32.780	32.775	0.000	-0.810	0.000	37.900
9	0.450	1.476	22.650	22.652	0.001	0.360	0.004	42.200
10	0.500	1.640	29.530	29.531	0.000	0.240	0.000	49.600
11	0.550	1.804	31.390	31.393	0.001	0.510	0.003	70.400
12	0.600	1.968	22.230	22.233	0.002	0.560	0.009	64.900
13	0.650	2.133	20.180	20.187	0.001	1.150	0.005	76.000
14	0.700	2.297	17.610	17.613	0.115	0.540	0.653	79.300
15	0.750	2.461	25.860	25.887	0.364	4.370	1.406	83.900
16	0.800	2.625	40.150	40.109	0.625	-6.490	1.558	82.700
17	0.850	2.789	42.030	41.933	0.742	-15.560	1.769	92.000
18	0.900	2.953	42.700	42.668	0.983	-5.140	2.304	94.600
19	0.950	3.117	36.560	36.560	1.021	-0.040	2.793	99.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	39.410	39.409	0.993	-0.090	2.520	82.800
21	1.050	3.445	39.030	39.027	1.013	-0.530	2.596	85.900
22	1.100	3.609	34.100	34.036	0.976	-10.190	2.868	68.500
23	1.150	3.773	25.530	25.459	0.908	-11.360	3.567	69.900
24	1.200	3.937	19.280	19.210	0.527	-11.230	2.743	58.900
25	1.250	4.101	26.840	26.764	0.340	-12.150	1.270	55.100
26	1.300	4.265	53.920	53.925	0.266	0.730	0.493	52.600
27	1.350	4.429	95.400	95.413	0.782	2.050	0.820	43.800
28	1.400	4.593	70.410	70.505	0.815	15.270	1.156	36.700
29	1.450	4.757	26.590	26.578	0.915	-1.980	3.443	35.100
30	1.500	4.921	28.380	28.382	0.682	0.370	2.403	21.100
31	1.550	5.085	17.230	17.226	0.609	-0.690	3.535	30.900
32	1.600	5.249	12.920	12.874	0.634	-7.310	4.925	26.200
33	1.650	5.413	14.400	14.401	0.460	0.140	3.194	24.400
34	1.700	5.577	13.500	13.499	0.816	-0.110	6.045	20.800
35	1.750	5.741	35.840	35.850	0.773	1.660	2.156	22.100
36	1.800	5.905	32.540	32.549	0.529	1.500	1.625	19.300
37	1.850	6.069	25.000	25.011	0.636	1.770	2.543	21.600
38	1.900	6.234	32.390	32.394	0.780	0.680	2.408	22.200
39	1.950	6.398	56.160	56.194	0.921	5.450	1.639	27.800
40	2.000	6.562	33.740	33.742	0.898	0.380	2.661	36.400
41	2.050	6.726	25.580	25.584	0.953	0.630	3.725	51.100
42	2.100	6.890	22.500	22.507	0.690	1.050	3.066	56.600
43	2.150	7.054	16.500	16.500	0.595	-0.020	3.606	64.300
44	2.200	7.218	17.890	17.894	0.548	0.650	3.062	83.300
45	2.250	7.382	15.000	15.008	0.462	1.360	3.078	54.900
46	2.300	7.546	10.650	10.639	0.461	-1.710	4.333	53.700
47	2.350	7.710	9.050	9.020	0.400	-4.770	4.434	41.100
48	2.400	7.874	9.760	9.780	0.310	3.280	3.170	36.200
49	2.450	8.038	12.310	12.319	0.189	1.410	1.534	23.700
50	2.500	8.202	66.890	66.894	0.753	0.650	1.126	19.700
51	2.550	8.366	141.200	141.241	1.156	6.490	0.818	17.200
52	2.600	8.530	31.340	31.344	1.048	0.620	3.344	18.900
53	2.650	8.694	32.640	32.649	0.623	1.410	1.908	18.500
54	2.700	8.858	33.690	33.700	0.031	1.590	0.092	22.700
55	2.750	9.022	64.190	64.208	0.258	2.960	0.402	16.400
56	2.800	9.186	93.400	93.411	0.709	1.790	0.759	15.400
57	2.850	9.350	93.200	93.228	0.829	4.500	0.889	16.500
58	2.900	9.514	100.000	100.010	1.221	1.660	1.221	12.800
59	2.950	9.678	154.610	154.610	0.997	0.070	0.645	17.400
60	3.000	9.842	30.980	30.990	1.168	1.570	3.769	13.000
61	3.050	10.006	29.000	28.977	1.201	-3.720	4.145	13.800
62	3.100	10.170	16.540	16.544	0.723	0.670	4.370	19.300
63	3.150	10.335	21.950	22.008	0.595	9.370	2.704	18.900
64	3.200	10.499	34.300	34.322	0.471	3.510	1.372	23.300
65	3.250	10.663	20.770	20.779	0.341	1.420	1.641	24.800
66	3.300	10.827	9.850	9.883	0.218	5.360	2.206	20.300
67	3.350	10.991	5.290	5.287	0.216	-0.560	4.086	28.200
68	3.400	11.155	59.380	59.402	0.387	3.460	0.651	35.300
69	3.450	11.319	51.170	51.172	0.511	0.330	0.999	55.700
70	3.500	11.483	50.020	50.039	0.651	2.970	1.301	62.300
71	3.550	11.647	52.300	52.334	0.610	5.500	1.166	66.500
72	3.600	11.811	37.740	37.756	0.662	2.570	1.753	75.500
73	3.650	11.975	25.890	25.870	0.434	-3.170	1.678	49.700
74	3.700	12.139	26.500	26.486	0.323	-2.260	1.220	34.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	24.180	24.185	0.355	0.880	1.468	27.600
76	3.800	12.467	31.470	31.472	0.356	0.320	1.131	22.700
77	3.850	12.631	14.090	14.094	0.341	0.610	2.420	21.500
78	3.900	12.795	16.950	16.964	0.292	2.250	1.721	12.300
79	3.950	12.959	22.380	22.337	0.291	-6.960	1.303	17.600
80	4.000	13.123	12.880	12.891	0.267	1.700	2.071	13.900
81	4.050	13.287	42.020	42.025	0.648	0.790	1.542	13.500
82	4.100	13.451	66.300	66.289	1.091	-1.810	1.646	18.700
83	4.150	13.615	44.510	44.510	1.256	0.020	2.822	16.500
84	4.200	13.779	30.520	30.539	0.899	3.060	2.944	22.400
85	4.250	13.943	29.350	29.357	0.576	1.150	1.962	29.400
86	4.300	14.107	22.720	22.731	0.228	1.770	1.003	36.000
87	4.350	14.271	15.640	15.653	0.164	2.140	1.048	45.900
88	4.400	14.436	15.320	15.360	0.101	6.460	0.658	55.400
89	4.450	14.600	15.290	15.405	0.103	18.370	0.669	41.300
90	4.500	14.764	12.910	12.900	0.136	-1.600	1.054	45.700
91	4.550	14.928	18.890	18.898	0.157	1.230	0.831	31.400
92	4.600	15.092	21.510	21.514	0.105	0.660	0.488	31.700
93	4.650	15.256	13.900	13.912	0.101	1.850	0.726	47.000
94	4.700	15.420	16.790	16.820	0.142	4.740	0.844	38.600
95	4.750	15.584	16.100	16.087	0.156	-2.140	0.970	24.700
96	4.800	15.748	13.120	13.140	0.223	3.140	1.697	27.500
97	4.850	15.912	13.580	13.588	0.184	1.210	1.354	12.700
98	4.900	16.076	18.840	18.854	0.167	2.190	0.886	19.200
99	4.950	16.240	13.220	13.287	0.137	10.720	1.031	11.200
100	5.000	16.404	17.310	17.385	0.196	12.060	1.127	18.100
101	5.050	16.568	19.830	19.860	0.236	4.870	1.188	20.200
102	5.100	16.732	32.490	32.534	0.150	7.080	0.461	15.400
103	5.150	16.896	46.760	46.761	0.340	0.120	0.727	18.000
104	5.200	17.060	28.150	28.148	0.522	-0.390	1.855	15.400
105	5.250	17.224	28.530	28.554	0.654	3.880	2.290	18.400
106	5.300	17.388	20.070	20.086	0.558	2.550	2.778	0.000
107	5.350	17.552	11.580	11.631	0.426	8.150	3.663	0.000
108	5.400	17.716	31.160	31.170	0.221	1.630	0.709	0.000
109	5.450	17.880	108.900	108.940	0.725	6.380	0.666	0.000
110	5.500	18.044	105.620	105.632	0.989	1.920	0.936	0.000
111	5.550	18.208	68.850	68.874	1.334	3.920	1.937	0.000
112	5.600	18.372	43.210	43.214	2.074	0.680	4.799	0.000
113	5.650	18.537	56.130	56.142	1.862	1.920	3.317	0.000
114	5.700	18.701	17.220	17.217	1.457	-0.560	8.463	0.000
115	5.750	18.865	41.870	41.871	1.122	0.130	2.680	0.000
116	5.800	19.029	86.450	86.463	0.765	2.110	0.885	0.000
117	5.850	19.193	141.440	141.584	0.858	23.140	0.606	0.000
118	5.900	19.357	47.250	47.252	1.036	0.400	2.192	0.000
119	5.950	19.521	24.430	24.461	1.162	5.000	4.750	0.000
120	6.000	19.685	31.970	31.975	0.000	0.830	0.000	0.000
121	6.050	19.849	768.950	768.961	0.000	1.700	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221487
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-1
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-30-2014
CPT Time:	15:45
CPT File:	13-53075_GP1C-1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722012.070
Northing / Lat:	4294220.520
Elevation:	141.230
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.480	2.487	0.006	1.160	0.241	35.600
2	0.100	0.328	9.590	9.603	0.003	2.110	0.031	32.400
3	0.150	0.492	19.790	19.794	0.010	0.670	0.051	40.500
4	0.200	0.656	24.650	24.652	0.001	0.370	0.004	30.800
5	0.250	0.820	37.450	37.459	0.105	1.430	0.280	35.100
6	0.300	0.984	35.000	35.022	0.044	3.530	0.126	33.000
7	0.350	1.148	31.300	31.309	0.002	1.380	0.006	32.100
8	0.400	1.312	28.370	28.375	0.081	0.860	0.285	46.300
9	0.450	1.476	46.880	46.888	0.157	1.300	0.335	47.000
10	0.500	1.640	39.610	39.610	0.082	0.040	0.207	66.300
11	0.550	1.804	27.040	27.042	0.182	0.260	0.673	76.400
12	0.600	1.968	14.350	14.386	0.262	5.780	1.821	70.800
13	0.650	2.133	19.140	19.206	0.362	10.590	1.885	67.500
14	0.700	2.297	25.000	25.053	0.462	8.520	1.844	68.300
15	0.750	2.461	28.930	28.934	0.571	0.690	1.973	82.800
16	0.800	2.625	26.590	26.549	0.594	-6.620	2.237	80.800
17	0.850	2.789	23.260	23.230	0.541	-4.840	2.329	72.500
18	0.900	2.953	19.120	19.073	0.551	-7.460	2.889	87.600
19	0.950	3.117	23.590	23.559	0.645	-4.890	2.738	63.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	18.140	18.144	0.635	0.630	3.500	60.100
21	1.050	3.445	17.810	17.809	0.540	-0.170	3.032	49.600
22	1.100	3.609	16.830	16.819	0.423	-1.720	2.515	44.200
23	1.150	3.773	14.800	14.804	0.496	0.610	3.350	29.500
24	1.200	3.937	14.320	14.338	0.360	2.880	2.511	27.400
25	1.250	4.101	36.430	36.422	0.629	-1.250	1.727	18.600
26	1.300	4.265	64.600	64.633	1.483	5.290	2.294	19.900
27	1.350	4.429	74.910	74.909	1.707	-0.220	2.279	19.700
28	1.400	4.593	100.960	100.937	1.165	-3.630	1.154	17.900
29	1.450	4.757	28.980	28.959	1.313	-3.390	4.534	13.600
30	1.500	4.921	30.200	30.219	0.325	3.100	1.075	17.800
31	1.550	5.085	76.830	76.871	0.806	6.560	1.049	17.000
32	1.600	5.249	58.080	58.082	0.954	0.390	1.642	15.200
33	1.650	5.413	24.910	24.938	0.904	4.430	3.625	15.800
34	1.700	5.577	40.460	40.559	0.480	15.830	1.183	20.200
35	1.750	5.741	49.250	49.244	0.499	-0.940	1.013	25.900
36	1.800	5.905	58.380	58.426	0.724	7.290	1.239	28.600
37	1.850	6.069	66.770	66.935	1.031	26.480	1.540	42.400
38	1.900	6.234	42.250	42.529	1.149	44.680	2.702	50.900
39	1.950	6.398	20.880	20.953	0.839	11.620	4.004	54.300
40	2.000	6.562	14.320	14.429	0.468	17.470	3.243	84.000
41	2.050	6.726	15.040	15.134	0.245	15.050	1.619	76.000
42	2.100	6.890	15.140	15.219	0.181	12.580	1.189	79.400
43	2.150	7.054	18.030	18.086	0.310	8.970	1.714	68.000
44	2.200	7.218	22.160	22.213	0.557	8.500	2.508	48.200
45	2.250	7.382	60.260	60.392	0.914	21.110	1.513	38.000
46	2.300	7.546	53.560	53.684	1.267	19.850	2.360	36.000
47	2.350	7.710	43.060	43.035	2.006	-3.940	4.661	24.500
48	2.400	7.874	57.380	57.445	1.771	10.450	3.083	19.400
49	2.450	8.038	89.120	89.030	1.015	-14.410	1.140	18.000
50	2.500	8.202	98.720	98.820	0.936	16.050	0.947	12.000
51	2.550	8.366	272.080	272.206	4.812	20.260	1.768	20.300
52	2.600	8.530	251.070	251.072	6.100	0.300	2.430	24.500
53	2.650	8.694	7.540	7.552	4.605	1.920	60.977	13.900
54	2.700	8.858	0.790	0.795	1.682	0.800	211.574	21.000
55	2.750	9.022	5.010	5.012	1.387	0.260	27.676	17.700
56	2.800	9.186	1.200	1.205	3.814	0.760	316.582	16.600
57	2.850	9.350	363.770	363.790	2.317	3.260	0.637	13.700
58	2.900	9.514	422.630	422.652	5.150	3.560	1.218	12.800
59	2.950	9.678	145.180	145.192	5.417	1.920	3.731	21.900
60	3.000	9.842	31.410	31.457	1.745	7.590	5.547	18.900
61	3.050	10.006	13.770	13.774	0.570	0.680	4.138	20.900
62	3.100	10.170	7.770	7.787	0.362	2.700	4.649	24.600
63	3.150	10.335	13.110	13.129	0.496	2.980	3.778	32.100
64	3.200	10.499	23.110	23.105	0.605	-0.840	2.619	39.000
65	3.250	10.663	22.330	22.354	0.658	3.800	2.944	60.800
66	3.300	10.827	19.370	19.389	0.592	3.120	3.053	64.100
67	3.350	10.991	35.190	35.192	0.576	0.290	1.637	74.600
68	3.400	11.155	44.720	44.690	0.708	-4.790	1.584	66.800
69	3.450	11.319	45.780	45.741	0.833	-6.180	1.821	76.700
70	3.500	11.483	33.580	33.534	0.579	-7.310	1.727	51.400
71	3.550	11.647	29.230	29.182	0.693	-7.680	2.375	41.000
72	3.600	11.811	23.350	23.406	0.661	8.910	2.824	26.300
73	3.650	11.975	14.380	14.378	0.764	-0.250	5.314	24.000
74	3.700	12.139	25.680	25.751	0.674	11.400	2.617	21.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	28.290	28.351	0.727	9.740	2.564	21.900
76	3.800	12.467	30.790	30.789	0.886	-0.180	2.878	18.000
77	3.850	12.631	28.220	28.220	1.037	0.020	3.675	22.300
78	3.900	12.795	26.000	26.008	1.125	1.240	4.326	29.300
79	3.950	12.959	43.910	44.166	1.080	41.060	2.445	21.200
80	4.000	13.123	43.860	43.897	0.992	5.960	2.260	19.200
81	4.050	13.287	41.860	41.894	0.755	5.500	1.802	20.100
82	4.100	13.451	29.000	29.053	0.956	8.500	3.291	35.100
83	4.150	13.615	33.630	33.689	0.692	9.530	2.054	50.100
84	4.200	13.779	19.790	19.881	0.715	14.550	3.596	46.600
85	4.250	13.943	32.840	32.843	0.604	0.440	1.839	51.100
86	4.300	14.107	83.060	83.075	0.701	2.390	0.844	54.600
87	4.350	14.271	77.510	77.509	0.628	-0.200	0.810	52.800
88	4.400	14.436	64.230	64.249	0.945	3.000	1.471	42.500
89	4.450	14.600	40.230	40.266	1.058	5.770	2.628	40.400
90	4.500	14.764	26.000	26.073	0.901	11.630	3.456	27.200
91	4.550	14.928	28.290	28.331	0.919	6.530	3.244	18.300
92	4.600	15.092	37.820	37.932	0.455	18.000	1.200	16.400
93	4.650	15.256	62.480	62.490	0.411	1.580	0.658	15.900
94	4.700	15.420	24.570	24.590	0.586	3.170	2.383	17.000
95	4.750	15.584	51.390	51.393	0.652	0.460	1.269	13.600
96	4.800	15.748	37.800	37.825	0.619	3.940	1.637	16.400
97	4.850	15.912	46.640	46.659	0.544	2.990	1.166	14.400
98	4.900	16.076	8.590	8.599	0.187	1.410	2.175	17.300
99	4.950	16.240	3.390	3.391	0.196	0.160	5.780	17.700
100	5.000	16.404	31.390	31.396	0.442	1.010	1.408	19.700
101	5.050	16.568	20.560	20.568	0.484	1.320	2.353	17.000
102	5.100	16.732	18.480	18.478	0.630	-0.280	3.409	22.300
103	5.150	16.896	22.960	23.034	0.402	11.920	1.745	26.000
104	5.200	17.060	10.090	10.147	0.553	9.080	5.450	31.100
105	5.250	17.224	42.690	42.754	0.846	10.300	1.979	30.700
106	5.300	17.388	52.720	52.712	1.173	-1.260	2.225	0.000
107	5.350	17.552	88.610	88.626	2.001	2.580	2.258	0.000
108	5.400	17.716	67.500	67.521	1.860	3.380	2.755	0.000
109	5.450	17.880	7.050	7.082	1.101	5.050	15.547	0.000
110	5.500	18.044	18.220	18.230	0.382	1.570	2.095	0.000
111	5.550	18.208	15.440	15.442	0.210	0.370	1.360	0.000
112	5.600	18.372	38.990	38.989	0.402	-0.130	1.031	0.000
113	5.650	18.537	35.770	35.774	0.590	0.690	1.649	0.000
114	5.700	18.701	20.830	20.824	0.642	-0.900	3.083	0.000
115	5.750	18.865	25.860	25.862	0.635	0.250	2.455	0.000
116	5.800	19.029	30.230	30.229	0.531	-0.110	1.757	0.000
117	5.850	19.193	27.510	27.495	0.287	-2.450	1.044	0.000
118	5.900	19.357	37.510	37.505	0.355	-0.790	0.947	0.000
119	5.950	19.521	51.460	51.468	0.217	1.360	0.422	0.000
120	6.000	19.685	641.120	641.120	0.000	-0.080	0.000	0.000
121	6.050	19.849	795.280	795.281	0.000	0.130	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221491
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-2
Cone ID:	226:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-30-2014
CPT Time:	14:29
CPT File:	13-53075_GP1C-2.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	N/A
Col 5 (Extra Module) Units	N/A
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722032.490
Northing / Lat:	4294210.770
Elevation:	143.850
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
1	0.050	0.164	11.480	11.502	0.040	3.600	0.348
2	0.100	0.328	40.820	40.832	0.161	1.910	0.394
3	0.150	0.492	99.780	99.815	0.289	5.660	0.290
4	0.200	0.656	99.320	101.314	0.331	319.460	0.327
5	0.250	0.820	91.780	94.001	0.343	355.840	0.365
6	0.300	0.984	75.900	77.478	0.327	252.750	0.422
7	0.350	1.148	60.770	61.591	0.300	131.490	0.487
8	0.400	1.312	33.340	33.390	0.271	7.990	0.812
9	0.450	1.476	19.680	19.643	0.226	-5.950	1.151
10	0.500	1.640	11.390	11.355	0.200	-5.640	1.761
11	0.550	1.804	8.220	8.213	0.237	-1.120	2.886
12	0.600	1.968	7.960	7.933	0.274	-4.310	3.454
13	0.650	2.133	6.530	6.492	0.288	-6.020	4.436
14	0.700	2.297	7.210	7.163	0.278	-7.540	3.881
15	0.750	2.461	6.670	6.617	0.278	-8.520	4.201
16	0.800	2.625	5.880	5.820	0.277	-9.640	4.760
17	0.850	2.789	5.090	5.073	0.257	-2.690	5.066
18	0.900	2.953	4.550	4.537	0.248	-2.030	5.466
19	0.950	3.117	4.180	4.167	0.244	-2.060	5.855

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
20	1.000	3.281	5.410	5.397	0.237	-2.050	4.391
21	1.050	3.445	4.730	4.724	0.240	-0.970	5.080
22	1.100	3.609	3.460	3.452	0.226	-1.290	6.547
23	1.150	3.773	3.830	3.821	0.242	-1.510	6.334
24	1.200	3.937	3.840	3.828	0.251	-1.920	6.557
25	1.250	4.101	6.050	6.045	0.265	-0.780	4.384
26	1.300	4.265	8.980	8.985	0.356	0.760	3.962
27	1.350	4.429	11.380	11.375	0.400	-0.790	3.516
28	1.400	4.593	18.450	18.444	0.489	-0.890	2.651
29	1.450	4.757	26.120	26.114	0.419	-1.040	1.605
30	1.500	4.921	28.180	28.160	0.615	-3.250	2.184
31	1.550	5.085	34.930	34.921	0.858	-1.480	2.457
32	1.600	5.249	30.300	30.267	0.969	-5.330	3.202
33	1.650	5.413	28.610	28.563	0.940	-7.540	3.291
34	1.700	5.577	24.670	24.616	0.793	-8.650	3.221
35	1.750	5.741	20.630	20.569	0.784	-9.800	3.812
36	1.800	5.905	22.180	22.120	0.764	-9.650	3.454
37	1.850	6.069	43.150	43.106	0.804	-7.060	1.865
38	1.900	6.234	56.040	56.015	1.186	-3.980	2.117
39	1.950	6.398	50.460	50.415	1.338	-7.210	2.654
40	2.000	6.562	40.480	40.433	1.273	-7.480	3.148
41	2.050	6.726	36.010	35.963	1.228	-7.540	3.415
42	2.100	6.890	33.170	33.118	1.105	-8.400	3.337
43	2.150	7.054	30.180	30.127	1.060	-8.530	3.518
44	2.200	7.218	30.410	30.351	1.006	-9.420	3.315
45	2.250	7.382	24.930	24.873	1.047	-9.150	4.209
46	2.300	7.546	27.550	27.500	0.897	-8.040	3.262
47	2.350	7.710	27.530	27.477	0.909	-8.490	3.308
48	2.400	7.874	19.510	19.451	0.824	-9.500	4.236
49	2.450	8.038	20.460	20.400	0.730	-9.640	3.578
50	2.500	8.202	22.040	21.982	0.626	-9.220	2.848
51	2.550	8.366	18.810	18.767	0.695	-6.880	3.703
52	2.600	8.530	20.400	20.355	0.643	-7.260	3.159
53	2.650	8.694	26.140	26.097	0.687	-6.830	2.632
54	2.700	8.858	18.580	18.529	0.685	-8.210	3.697
55	2.750	9.022	14.480	14.422	0.534	-9.350	3.703
56	2.800	9.186	20.720	20.666	0.450	-8.690	2.178
57	2.850	9.350	36.560	36.510	0.484	-7.930	1.326
58	2.900	9.514	56.930	56.936	0.855	1.030	1.502
59	2.950	9.678	34.090	34.101	0.672	1.750	1.971
60	3.000	9.842	58.220	58.242	1.123	3.550	1.928
61	3.050	10.006	51.000	51.010	1.418	1.670	2.780
62	3.100	10.170	27.430	27.546	1.572	18.540	5.707
63	3.150	10.335	50.640	50.742	0.851	16.260	1.677
64	3.200	10.499	47.240	47.223	0.304	-2.730	0.644
65	3.250	10.663	47.510	47.504	0.790	-0.920	1.663
66	3.300	10.827	67.110	67.159	0.602	7.900	0.896
67	3.350	10.991	54.970	55.034	0.685	10.230	1.245
68	3.400	11.155	52.750	52.760	0.645	1.650	1.223
69	3.450	11.319	13.910	13.962	0.535	8.340	3.832
70	3.500	11.483	12.170	12.184	0.335	2.280	2.749
71	3.550	11.647	7.590	7.622	0.311	5.170	4.080
72	3.600	11.811	9.840	9.877	0.185	5.990	1.873
73	3.650	11.975	7.500	7.505	0.257	0.740	3.425
74	3.700	12.139	29.340	29.376	0.476	5.830	1.620

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
75	3.750	12.303	16.970	17.005	0.452	5.540	2.658
76	3.800	12.467	10.230	10.436	0.460	33.060	4.408
77	3.850	12.631	22.900	23.056	0.265	24.980	1.149
78	3.900	12.795	37.330	37.403	0.454	11.700	1.214
79	3.950	12.959	27.130	27.155	0.448	4.050	1.650
80	4.000	13.123	13.880	13.900	0.373	3.130	2.684
81	4.050	13.287	14.570	14.571	0.149	0.200	1.023
82	4.100	13.451	22.400	22.405	0.157	0.830	0.701
83	4.150	13.615	19.380	19.424	0.124	7.070	0.638
84	4.200	13.779	9.580	9.572	0.095	-1.270	0.992
85	4.250	13.943	9.240	9.245	0.005	0.790	0.054
86	4.300	14.107	9.190	9.207	0.028	2.680	0.304
87	4.350	14.271	6.520	6.528	0.122	1.260	1.869
88	4.400	14.436	43.730	43.745	0.292	2.390	0.668
89	4.450	14.600	19.090	19.178	0.409	14.150	2.133
90	4.500	14.764	19.990	20.005	0.385	2.340	1.925
91	4.550	14.928	10.690	10.726	0.196	5.700	1.827
92	4.600	15.092	31.100	31.165	0.242	10.390	0.777
93	4.650	15.256	26.450	26.455	0.257	0.730	0.971
94	4.700	15.420	66.820	66.844	0.489	3.770	0.732
95	4.750	15.584	69.740	69.740	0.771	-0.080	1.106
96	4.800	15.748	27.610	27.618	0.774	1.210	2.803
97	4.850	15.912	13.430	13.534	0.576	16.700	4.256
98	4.900	16.076	17.080	17.116	0.341	5.830	1.992
99	4.950	16.240	19.330	19.369	0.365	6.280	1.884
100	5.000	16.404	21.820	21.825	0.567	0.870	2.598
101	5.050	16.568	34.140	34.187	0.815	7.450	2.384
102	5.100	16.732	36.460	36.450	1.066	-1.670	2.925
103	5.150	16.896	32.120	32.088	1.283	-5.080	3.998
104	5.200	17.060	35.380	35.364	1.216	-2.520	3.438
105	5.250	17.224	40.640	40.642	0.940	0.280	2.313
106	5.300	17.388	33.220	33.192	0.718	-4.500	2.163
107	5.350	17.552	31.460	31.415	0.804	-7.170	2.559
108	5.400	17.716	28.830	28.842	0.770	1.950	2.670
109	5.450	17.880	27.320	27.381	0.915	9.700	3.342
110	5.500	18.044	35.020	35.082	0.984	9.970	2.805
111	5.550	18.208	56.140	56.206	1.079	10.620	1.920
112	5.600	18.372	42.240	42.352	1.102	18.010	2.602
113	5.650	18.537	20.080	20.086	1.166	0.930	5.805
114	5.700	18.701	55.710	55.760	0.981	7.960	1.759
115	5.750	18.865	47.970	47.974	0.680	0.580	1.417
116	5.800	19.029	34.410	34.422	0.747	1.970	2.170
117	5.850	19.193	40.950	40.995	0.876	7.200	2.137
118	5.900	19.357	39.470	39.560	0.803	14.410	2.030
119	5.950	19.521	37.410	37.457	0.819	7.450	2.187
120	6.000	19.685	30.670	30.699	0.841	4.640	2.740
121	6.050	19.849	25.830	25.898	0.657	10.970	2.537
122	6.100	20.013	15.820	15.844	0.529	3.840	3.339
123	6.150	20.177	16.280	16.324	0.760	7.100	4.656
124	6.200	20.341	31.320	31.404	0.966	13.410	3.076
125	6.250	20.505	83.260	83.418	1.349	25.290	1.617
126	6.300	20.669	78.270	78.427	2.173	25.090	2.771
127	6.350	20.833	135.960	136.040	2.247	12.850	1.652
128	6.400	20.997	74.060	74.123	2.311	10.170	3.118
129	6.450	21.161	56.280	56.401	2.102	19.450	3.727

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
130	6.500	21.325	25.940	25.940	1.176	0.070	4.533
131	6.550	21.489	18.160	18.206	0.681	7.430	3.740
132	6.600	21.653	19.710	19.704	0.388	-0.980	1.969
133	6.650	21.817	14.070	14.117	0.442	7.570	3.131
134	6.700	21.981	24.980	25.060	0.507	12.890	2.023
135	6.750	22.145	25.200	25.211	0.431	1.820	1.710
136	6.800	22.309	37.840	37.941	0.548	16.150	1.444
137	6.850	22.473	39.000	38.997	1.305	-0.500	3.346
138	6.900	22.638	37.480	37.497	1.508	2.680	4.022
139	6.950	22.802	99.730	99.763	2.064	5.300	2.069
140	7.000	22.966	164.130	164.491	2.160	57.870	1.313
141	7.050	23.130	157.500	157.916	2.249	66.670	1.424
142	7.100	23.294	165.890	165.978	2.492	14.080	1.501
143	7.150	23.458	157.420	157.488	2.083	10.970	1.323
144	7.200	23.622	117.380	117.386	2.061	0.900	1.756
145	7.250	23.786	88.700	88.712	1.415	1.930	1.595
146	7.300	23.950	85.500	85.519	2.025	3.120	2.368
147	7.350	24.114	79.490	79.500	1.571	1.570	1.976
148	7.400	24.278	74.960	74.968	1.079	1.350	1.439
149	7.450	24.442	66.490	66.512	0.452	3.490	0.680
150	7.500	24.606	22.090	22.102	0.428	1.920	1.936
151	7.550	24.770	17.620	17.694	0.409	11.870	2.312
152	7.600	24.934	13.410	13.478	0.273	10.890	2.026
153	7.650	25.098	25.810	25.936	0.317	20.140	1.222
154	7.700	25.262	29.040	29.081	0.388	6.520	1.334
155	7.750	25.426	16.060	16.067	0.446	1.110	2.776
156	7.800	25.590	11.390	11.394	0.516	0.580	4.529
157	7.850	25.754	19.610	19.654	0.398	7.040	2.025
158	7.900	25.918	25.380	25.563	0.611	29.240	2.390
159	7.950	26.082	28.030	28.059	0.828	4.630	2.951
160	8.000	26.246	24.980	24.971	0.737	-1.370	2.951
161	8.050	26.410	27.490	27.486	0.726	-0.610	2.641
162	8.100	26.574	15.920	15.920	0.826	-0.070	5.189
163	8.150	26.739	37.420	37.518	0.885	15.650	2.359
164	8.200	26.903	36.470	36.460	3.248	-1.620	8.908
165	8.250	27.067	38.400	38.411	3.881	1.690	10.104
166	8.300	27.231	174.580	174.636	3.241	9.010	1.856
167	8.350	27.395	250.150	250.283	0.682	21.270	0.272
168	8.400	27.559	164.150	164.179	0.224	4.640	0.136
169	8.450	27.723	156.850	156.833	2.179	-2.800	1.389
170	8.500	27.887	49.240	49.236	1.644	-0.650	3.339
171	8.550	28.051	30.480	30.468	0.962	-1.970	3.157
172	8.600	28.215	24.820	24.813	0.510	-1.190	2.055
173	8.650	28.379	35.660	35.686	0.590	4.150	1.653
174	8.700	28.543	75.780	75.794	0.868	2.180	1.145
175	8.750	28.707	19.260	19.246	1.164	-2.290	6.048
176	8.800	28.871	25.500	25.526	0.886	4.130	3.471
177	8.850	29.035	22.960	22.981	1.055	3.430	4.591
178	8.900	29.199	23.450	23.488	0.519	6.160	2.210
179	8.950	29.363	13.080	13.082	0.609	0.360	4.655
180	9.000	29.527	19.070	19.085	0.739	2.370	3.872
181	9.050	29.691	9.500	9.576	0.410	12.100	4.282
182	9.100	29.855	11.760	11.793	0.469	5.320	3.977
183	9.150	30.019	19.930	19.969	0.533	6.270	2.669
184	9.200	30.183	20.360	20.335	0.615	-4.010	3.024

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
185	9.250	30.347	15.580	15.579	0.654	-0.140	4.198
186	9.300	30.511	13.850	13.836	0.608	-2.200	4.394
187	9.350	30.675	21.700	21.712	0.784	1.990	3.611
188	9.400	30.840	22.490	22.498	0.660	1.350	2.934
189	9.450	31.004	23.470	23.508	0.767	6.070	3.263
190	9.500	31.168	37.540	37.576	0.595	5.820	1.583
191	9.550	31.332	41.750	41.764	0.946	2.260	2.265
192	9.600	31.496	37.600	37.699	1.121	15.930	2.974
193	9.650	31.660	20.860	20.858	0.931	-0.320	4.464
194	9.700	31.824	19.070	19.047	0.614	-3.720	3.224
195	9.750	31.988	23.900	23.891	0.264	-1.480	1.105
196	9.800	32.152	10.150	10.157	0.167	1.060	1.644
197	9.850	32.316	18.090	18.091	0.181	0.120	1.001
198	9.900	32.480	30.990	31.002	0.189	1.880	0.610
199	9.950	32.644	34.040	34.051	0.337	1.840	0.990
200	10.000	32.808	20.550	20.566	0.384	2.560	1.867
201	10.050	32.972	21.730	21.752	0.482	3.590	2.216
202	10.100	33.136	21.160	21.184	0.504	3.890	2.379
203	10.150	33.300	20.120	20.148	0.554	4.500	2.750
204	10.200	33.464	20.610	20.640	0.582	4.870	2.820
205	10.250	33.628	20.280	20.307	0.545	4.360	2.684
206	10.300	33.792	20.340	20.368	0.545	4.510	2.676
207	10.350	33.956	20.540	20.554	0.570	2.310	2.773
208	10.400	34.120	21.080	21.097	0.619	2.730	2.934
209	10.450	34.284	20.940	20.954	0.569	2.320	2.715
210	10.500	34.448	20.280	20.293	0.559	2.080	2.755
211	10.550	34.612	21.470	21.468	0.517	-0.310	2.408
212	10.600	34.776	21.050	21.034	0.500	-2.580	2.377
213	10.650	34.941	20.930	20.917	0.471	-2.080	2.252
214	10.700	35.105	22.160	22.147	0.458	-2.010	2.068
215	10.750	35.269	20.980	20.969	0.456	-1.710	2.175
216	10.800	35.433	23.950	23.941	0.520	-1.400	2.172
217	10.850	35.597	25.610	25.606	0.548	-0.650	2.140
218	10.900	35.761	41.820	41.806	0.505	-2.260	1.208
219	10.950	35.925	59.090	59.075	0.341	-2.430	0.577
220	11.000	36.089	57.260	57.252	0.310	-1.350	0.541
221	11.050	36.253	54.850	54.843	0.263	-1.060	0.480
222	11.100	36.417	58.190	58.187	0.429	-0.490	0.737
223	11.150	36.581	69.480	69.570	0.731	14.470	1.051
224	11.200	36.745	70.680	70.756	0.974	12.150	1.377
225	11.250	36.909	68.880	68.935	1.205	8.780	1.748
226	11.300	37.073	65.920	65.962	1.004	6.700	1.522
227	11.350	37.237	61.680	61.717	0.944	5.900	1.530
228	11.400	37.401	59.060	59.093	0.904	5.300	1.530
229	11.450	37.565	62.660	62.692	0.793	5.170	1.265
230	11.500	37.729	75.330	75.371	0.843	6.580	1.118
231	11.550	37.893	98.980	99.012	0.971	5.150	0.981
232	11.600	38.057	117.710	117.756	1.189	7.310	1.010
233	11.650	38.221	129.220	129.278	1.418	9.270	1.097
234	11.700	38.385	127.110	127.159	1.613	7.920	1.268
235	11.750	38.549	112.600	112.657	1.681	9.200	1.492
236	11.800	38.713	91.200	91.252	1.579	8.380	1.730
237	11.850	38.877	79.980	80.029	1.374	7.800	1.717
238	11.900	39.042	75.720	75.763	1.312	6.860	1.732
239	11.950	39.206	77.810	77.854	1.302	7.040	1.672

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
240	12.000	39.370	78.840	78.885	1.277	7.250	1.619
241	12.050	39.534	89.080	89.130	1.158	7.960	1.299
242	12.100	39.698	109.970	110.028	1.254	9.300	1.140
243	12.150	39.862	158.180	158.246	1.730	10.620	1.093
244	12.200	40.026	214.600	214.685	2.223	13.620	1.035
245	12.250	40.190	211.850	211.946	2.516	15.300	1.187
246	12.300	40.354	176.360	176.444	2.246	13.450	1.273
247	12.350	40.518	134.500	134.541	2.141	6.620	1.591
248	12.400	40.682	72.570	72.616	2.013	7.350	2.772
249	12.450	40.846	38.190	38.214	1.427	3.820	3.734
250	12.500	41.010	27.690	27.740	0.979	7.960	3.529
251	12.550	41.174	36.800	36.850	0.871	8.050	2.364
252	12.600	41.338	53.400	53.457	0.989	9.120	1.850
253	12.650	41.502	74.970	75.014	1.129	7.050	1.505
254	12.700	41.666	96.050	96.107	1.232	9.070	1.282
255	12.750	41.830	99.300	99.340	1.281	6.470	1.290
256	12.800	41.994	92.410	92.447	1.256	5.940	1.359
257	12.850	42.158	82.320	82.360	1.234	6.330	1.498
258	12.900	42.322	90.920	90.963	1.299	6.880	1.428
259	12.950	42.486	132.790	132.848	1.552	9.230	1.168
260	13.000	42.650	223.680	223.750	2.203	11.230	0.985
261	13.050	42.814	320.090	320.168	2.981	12.530	0.931
262	13.100	42.978	372.660	372.780	3.865	19.250	1.037
263	13.150	43.143	388.890	388.989	4.703	15.800	1.209
264	13.200	43.307	413.020	413.143	5.374	19.670	1.301
265	13.250	43.471	414.690	414.824	5.588	21.530	1.347
266	13.300	43.635	401.770	401.904	5.498	21.510	1.368
267	13.350	43.799	390.220	390.340	5.169	19.270	1.324
268	13.400	43.963	390.420	390.523	0.000	16.450	0.000
269	13.450	44.127	393.440	393.538	0.000	15.770	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221492
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-2R
Cone ID:	410:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-06-2014
CPT Time:	09:42
CPT File:	13-53075_GP1C-2R.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722033.400
Northing / Lat:	4294209.550
Elevation:	143.920
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	121.810	121.904	0.001	15.010	0.001	27.900
2	0.100	0.328	214.910	214.939	0.003	4.640	0.001	28.900
3	0.150	0.492	134.290	134.320	0.000	4.880	0.000	62.000
4	0.200	0.656	102.680	103.165	0.001	77.640	0.001	63.900
5	0.250	0.820	94.690	96.569	0.002	301.040	0.002	67.400
6	0.300	0.984	82.030	83.475	0.004	231.510	0.005	93.000
7	0.350	1.148	67.990	69.170	0.004	189.050	0.006	83.800
8	0.400	1.312	51.420	51.903	0.007	77.350	0.013	88.300
9	0.450	1.476	32.800	33.011	0.006	33.770	0.018	79.400
10	0.500	1.640	19.640	19.755	0.008	18.380	0.040	93.300
11	0.550	1.804	13.380	13.411	0.005	4.950	0.037	85.900
12	0.600	1.968	11.190	11.217	0.005	4.360	0.045	100.000
13	0.650	2.133	9.570	9.587	0.009	2.700	0.094	88.900
14	0.700	2.297	8.150	8.161	0.009	1.690	0.110	92.200
15	0.750	2.461	6.670	6.678	0.005	1.290	0.075	89.500
16	0.800	2.625	6.890	6.896	0.009	0.920	0.131	93.200
17	0.850	2.789	7.820	7.837	0.004	2.680	0.051	85.600
18	0.900	2.953	5.760	5.777	0.008	2.790	0.138	89.000
19	0.950	3.117	6.190	6.208	0.004	2.830	0.064	79.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	5.170	5.184	0.001	2.260	0.019	85.200
21	1.050	3.445	5.050	5.061	0.001	1.720	0.020	83.400
22	1.100	3.609	4.080	4.087	0.001	1.080	0.024	93.500
23	1.150	3.773	3.610	3.610	0.002	0.050	0.055	101.600
24	1.200	3.937	7.450	7.447	0.006	-0.490	0.081	88.900
25	1.250	4.101	8.380	8.384	0.007	0.680	0.083	84.500
26	1.300	4.265	12.150	12.158	0.002	1.220	0.016	82.900
27	1.350	4.429	21.030	21.042	0.003	1.880	0.014	80.800
28	1.400	4.593	28.680	28.693	0.003	2.090	0.010	83.700
29	1.450	4.757	35.230	35.234	0.006	0.650	0.017	104.700
30	1.500	4.921	28.840	28.829	0.005	-1.770	0.017	96.200
31	1.550	5.085	22.980	22.984	0.005	0.680	0.022	88.800
32	1.600	5.249	17.750	17.738	0.006	-1.980	0.034	96.600
33	1.650	5.413	14.220	14.210	0.005	-1.640	0.035	89.700
34	1.700	5.577	15.790	15.781	0.008	-1.440	0.051	83.000
35	1.750	5.741	20.330	20.327	0.006	-0.450	0.030	82.900
36	1.800	5.905	21.020	21.035	0.016	2.450	0.076	97.000
37	1.850	6.069	28.690	28.713	0.008	3.730	0.028	94.300
38	1.900	6.234	49.870	49.900	0.132	4.820	0.265	100.800
39	1.950	6.398	56.950	56.986	0.442	5.780	0.776	81.200
40	2.000	6.562	46.600	46.631	0.405	4.920	0.869	96.300
41	2.050	6.726	26.690	26.703	0.296	2.120	1.108	104.000
42	2.100	6.890	21.350	21.354	0.309	0.570	1.447	93.900
43	2.150	7.054	27.740	27.755	0.306	2.390	1.103	92.400
44	2.200	7.218	31.970	31.996	0.354	4.180	1.106	90.900
45	2.250	7.382	36.790	36.820	0.468	4.830	1.271	90.600
46	2.300	7.546	36.770	36.803	0.396	5.290	1.076	93.400
47	2.350	7.710	28.430	28.450	0.236	3.140	0.830	90.700
48	2.400	7.874	19.810	19.812	0.242	0.270	1.222	90.600
49	2.450	8.038	20.710	20.699	0.204	-1.840	0.986	77.900
50	2.500	8.202	13.350	13.335	0.217	-2.480	1.627	72.900
51	2.550	8.366	14.790	14.859	0.215	11.070	1.447	84.000
52	2.600	8.530	18.870	18.920	0.193	7.990	1.020	75.300
53	2.650	8.694	19.550	19.592	0.187	6.690	0.954	84.000
54	2.700	8.858	19.430	19.472	0.174	6.670	0.894	99.100
55	2.750	9.022	18.340	18.382	0.098	6.650	0.533	107.200
56	2.800	9.186	22.720	22.774	0.049	8.670	0.215	90.000
57	2.850	9.350	16.640	16.659	0.015	3.060	0.090	93.900
58	2.900	9.514	12.760	12.767	0.016	1.180	0.125	81.200
59	2.950	9.678	20.910	20.860	0.226	-7.960	1.083	46.300
60	3.000	9.842	49.570	49.626	0.162	9.010	0.326	45.700
61	3.050	10.006	11.520	11.565	0.103	7.130	0.891	40.000
62	3.100	10.170	6.870	6.901	0.070	4.940	1.014	30.400
63	3.150	10.335	13.530	13.570	0.015	6.410	0.111	22.900
64	3.200	10.499	22.610	22.637	0.022	4.400	0.097	24.500
65	3.250	10.663	33.000	33.027	0.213	4.330	0.645	24.400
66	3.300	10.827	35.800	35.829	0.141	4.660	0.394	23.100
67	3.350	10.991	16.780	16.796	0.366	2.600	2.179	21.300
68	3.400	11.155	31.620	31.660	0.188	6.420	0.594	19.000
69	3.450	11.319	42.790	42.802	0.326	1.860	0.762	15.900
70	3.500	11.483	65.040	65.130	0.573	14.410	0.880	23.100
71	3.550	11.647	60.160	60.180	0.725	3.260	1.205	21.900
72	3.600	11.811	16.490	16.531	0.399	6.500	2.414	23.500
73	3.650	11.975	14.770	14.801	0.390	4.990	2.635	27.400
74	3.700	12.139	23.440	23.520	0.261	12.860	1.110	34.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	12.410	12.519	0.327	17.490	2.612	45.900
76	3.800	12.467	26.430	26.616	0.304	29.850	1.142	47.400
77	3.850	12.631	43.260	43.336	0.247	12.180	0.570	47.000
78	3.900	12.795	49.050	49.070	0.358	3.260	0.730	36.100
79	3.950	12.959	34.580	34.610	0.365	4.840	1.055	38.900
80	4.000	13.123	21.400	21.411	0.552	1.710	2.578	28.300
81	4.050	13.287	43.720	43.741	0.674	3.310	1.541	26.800
82	4.100	13.451	26.900	27.026	0.809	20.150	2.993	16.000
83	4.150	13.615	36.550	36.650	1.007	16.040	2.748	18.900
84	4.200	13.779	29.350	29.357	0.652	1.200	2.221	10.300
85	4.250	13.943	28.830	28.845	0.393	2.380	1.362	9.100
86	4.300	14.107	39.220	39.263	0.540	6.870	1.375	12.400
87	4.350	14.271	59.830	59.849	0.744	3.060	1.243	11.100
88	4.400	14.436	59.340	59.608	0.764	42.900	1.282	11.800
89	4.450	14.600	24.110	24.257	0.745	23.570	3.071	12.400
90	4.500	14.764	30.490	30.661	0.733	27.430	2.391	10.100
91	4.550	14.928	37.250	37.308	0.466	9.350	1.249	10.500
92	4.600	15.092	42.190	42.274	0.633	13.490	1.497	10.300
93	4.650	15.256	40.370	40.486	0.581	18.510	1.435	12.700
94	4.700	15.420	15.620	15.567	0.661	-8.440	4.246	16.400
95	4.750	15.584	35.730	35.770	0.415	6.380	1.160	18.600
96	4.800	15.748	19.480	19.590	0.411	17.560	2.098	19.700
97	4.850	15.912	16.520	16.553	0.411	5.350	2.483	26.700
98	4.900	16.076	15.510	15.618	0.384	17.250	2.459	34.700
99	4.950	16.240	13.770	13.852	0.566	13.100	4.086	42.000
100	5.000	16.404	24.680	24.749	0.701	11.120	2.832	50.100
101	5.050	16.568	22.430	22.627	0.839	31.530	3.708	74.200
102	5.100	16.732	21.020	21.124	0.888	16.590	4.204	80.300
103	5.150	16.896	20.250	20.326	0.887	12.150	4.364	88.500
104	5.200	17.060	35.880	35.991	0.967	17.740	2.687	87.600
105	5.250	17.224	74.410	74.512	0.989	16.260	1.327	89.200
106	5.300	17.388	43.220	43.252	0.998	5.130	2.307	90.700
107	5.350	17.552	32.990	32.960	0.677	-4.860	2.054	75.900
108	5.400	17.716	17.050	17.020	0.393	-4.860	2.309	59.000
109	5.450	17.880	12.250	12.224	0.310	-4.210	2.536	65.700
110	5.500	18.044	9.620	9.606	0.250	-2.290	2.603	45.700
111	5.550	18.208	12.320	12.292	0.193	-4.510	1.570	45.300
112	5.600	18.372	9.300	9.334	0.145	5.460	1.553	35.100
113	5.650	18.537	22.580	22.598	0.588	2.880	2.602	23.200
114	5.700	18.701	65.790	65.826	0.790	5.720	1.200	20.600
115	5.750	18.865	41.100	41.159	1.120	9.380	2.721	20.900
116	5.800	19.029	23.140	23.273	1.045	21.260	4.490	16.400
117	5.850	19.193	22.120	22.176	0.963	8.990	4.343	24.400
118	5.900	19.357	18.820	18.796	0.821	-3.770	4.368	17.700
119	5.950	19.521	17.890	18.034	0.673	23.080	3.732	18.600
120	6.000	19.685	13.350	13.471	0.364	19.450	2.702	16.100
121	6.050	19.849	19.580	19.632	0.320	8.370	1.630	14.100
122	6.100	20.013	28.170	28.196	0.387	4.160	1.373	16.800
123	6.150	20.177	11.390	11.405	0.390	2.330	3.420	27.600
124	6.200	20.341	5.880	5.926	0.359	7.300	6.058	20.600
125	6.250	20.505	6.590	6.667	0.240	12.400	3.600	19.100
126	6.300	20.669	12.190	12.270	0.313	12.860	2.551	14.500
127	6.350	20.833	21.120	21.180	0.609	9.620	2.875	15.500
128	6.400	20.997	64.670	64.748	1.227	12.420	1.895	20.000
129	6.450	21.161	62.180	62.212	1.323	5.140	2.127	15.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	20.810	20.747	1.222	-10.070	5.890	18.900
131	6.550	21.489	16.090	16.284	0.788	31.050	4.839	30.700
132	6.600	21.653	20.510	20.744	0.483	37.500	2.328	30.700
133	6.650	21.817	20.970	21.067	0.499	15.490	2.369	20.400
134	6.700	21.981	14.930	14.974	0.507	7.090	3.386	26.700
135	6.750	22.145	9.700	9.764	0.430	10.200	4.404	21.600
136	6.800	22.309	15.110	15.118	0.384	1.330	2.540	21.000
137	6.850	22.473	6.920	7.003	0.354	13.220	5.055	19.500
138	6.900	22.638	13.620	13.739	0.219	19.070	1.594	17.200
139	6.950	22.802	34.920	35.030	0.356	17.690	1.016	20.400
140	7.000	22.966	80.900	80.929	0.652	4.590	0.806	16.000
141	7.050	23.130	98.640	99.088	0.991	71.760	1.000	15.100
142	7.100	23.294	42.200	42.306	0.990	17.050	2.340	22.700
143	7.150	23.458	24.130	24.170	0.786	6.390	3.252	21.600
144	7.200	23.622	49.480	49.524	0.773	6.980	1.561	34.000
145	7.250	23.786	22.550	22.597	1.005	7.530	4.447	37.500
146	7.300	23.950	39.940	39.934	1.206	-0.920	3.020	43.400
147	7.350	24.114	74.100	74.165	0.947	10.340	1.277	59.100
148	7.400	24.278	28.390	28.449	0.954	9.470	3.353	78.100
149	7.450	24.442	34.180	34.278	0.872	15.620	2.544	78.500
150	7.500	24.606	26.310	26.405	0.576	15.240	2.181	77.300
151	7.550	24.770	23.290	23.389	0.636	15.780	2.719	77.800
152	7.600	24.934	46.360	46.578	0.936	34.910	2.010	84.800
153	7.650	25.098	45.090	45.197	0.814	17.220	1.801	64.700
154	7.700	25.262	53.630	53.690	1.111	9.670	2.069	63.100
155	7.750	25.426	47.740	47.772	1.709	5.100	3.577	66.000
156	7.800	25.590	22.840	22.870	1.381	4.860	6.038	62.900
157	7.850	25.754	128.200	128.442	1.125	38.770	0.876	71.400
158	7.900	25.918	150.440	150.635	0.483	31.260	0.321	67.600
159	7.950	26.082	85.120	85.289	0.615	27.010	0.721	83.500
160	8.000	26.246	60.470	60.517	0.722	7.560	1.193	67.700
161	8.050	26.410	61.120	61.202	1.392	13.170	2.274	67.100
162	8.100	26.574	43.870	43.952	2.674	13.070	6.084	70.900
163	8.150	26.739	58.060	58.024	3.696	-5.800	6.370	56.000
164	8.200	26.903	18.170	18.168	2.986	-0.380	16.436	82.400
165	8.250	27.067	42.110	42.169	2.279	9.390	5.404	95.900
166	8.300	27.231	34.090	34.097	0.782	1.130	2.293	117.900
167	8.350	27.395	24.270	24.315	0.958	7.220	3.940	98.600
168	8.400	27.559	46.930	46.975	1.010	7.190	2.150	99.900
169	8.450	27.723	76.000	76.113	1.270	18.180	1.669	99.800
170	8.500	27.887	59.950	60.129	1.465	28.700	2.436	112.000
171	8.550	28.051	28.460	28.486	1.103	4.190	3.872	118.100
172	8.600	28.215	14.930	14.947	0.873	2.690	5.841	129.000
173	8.650	28.379	23.120	23.156	0.637	5.820	2.751	129.600
174	8.700	28.543	15.830	15.818	0.430	-1.970	2.718	106.900
175	8.750	28.707	18.640	18.719	0.597	12.640	3.189	100.100
176	8.800	28.871	30.140	30.167	0.613	4.280	2.032	105.300
177	8.850	29.035	32.720	32.839	0.530	19.030	1.614	115.000
178	8.900	29.199	34.020	34.072	0.791	8.360	2.322	129.900
179	8.950	29.363	36.290	36.341	0.732	8.100	2.014	153.000
180	9.000	29.527	20.310	20.350	0.635	6.330	3.120	234.100
181	9.050	29.691	23.630	23.649	0.431	2.980	1.823	295.300
182	9.100	29.855	30.630	30.644	0.231	2.220	0.754	395.400
183	9.150	30.019	35.940	35.984	0.538	7.120	1.495	466.200
184	9.200	30.183	44.110	44.160	1.021	8.000	2.312	514.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	38.510	38.582	1.300	11.470	3.369	521.500
186	9.300	30.511	20.280	20.226	1.238	-8.730	6.121	467.300
187	9.350	30.675	24.970	25.173	0.855	32.580	3.396	431.800
188	9.400	30.840	29.420	29.541	0.597	19.380	2.021	408.600
189	9.450	31.004	25.710	25.884	0.770	27.910	2.975	417.200
190	9.500	31.168	38.470	38.597	1.025	20.310	2.656	418.500
191	9.550	31.332	55.820	55.928	1.101	17.340	1.969	358.800
192	9.600	31.496	63.740	63.741	1.200	0.150	1.883	376.600
193	9.650	31.660	59.410	59.441	1.330	4.920	2.238	347.700
194	9.700	31.824	75.350	75.390	1.336	6.430	1.772	322.000
195	9.750	31.988	39.860	39.855	1.099	-0.860	2.758	247.500
196	9.800	32.152	25.830	25.848	0.849	2.840	3.285	247.200
197	9.850	32.316	30.180	30.177	0.915	-0.540	3.032	188.900
198	9.900	32.480	26.260	26.290	1.080	4.870	4.108	164.900
199	9.950	32.644	49.980	50.204	1.171	35.810	2.333	101.600
200	10.000	32.808	90.830	90.859	1.947	4.660	2.143	86.700
201	10.050	32.972	117.610	117.635	2.161	4.010	1.837	82.700
202	10.100	33.136	87.970	88.018	2.075	7.710	2.357	77.500
203	10.150	33.300	35.210	35.270	1.672	9.570	4.741	101.100
204	10.200	33.464	25.320	25.656	1.171	53.780	4.564	83.000
205	10.250	33.628	23.270	23.662	0.847	62.730	3.580	104.500
206	10.300	33.792	20.840	21.196	0.823	57.080	3.883	96.100
207	10.350	33.956	20.750	21.031	0.898	44.940	4.270	98.100
208	10.400	34.120	20.140	20.407	0.944	42.800	4.626	89.200
209	10.450	34.284	19.500	19.721	0.965	35.350	4.893	95.900
210	10.500	34.448	19.330	19.546	0.961	34.580	4.917	86.700
211	10.550	34.612	18.930	19.158	0.915	36.540	4.776	99.300
212	10.600	34.776	19.070	19.258	0.885	30.080	4.596	90.900
213	10.650	34.941	17.250	17.482	0.881	37.090	5.040	88.400
214	10.700	35.105	18.110	18.320	0.850	33.670	4.640	113.800
215	10.750	35.269	18.270	18.458	0.833	30.130	4.513	106.600
216	10.800	35.433	19.980	20.128	0.752	23.710	3.736	101.100
217	10.850	35.597	22.640	22.754	0.642	18.340	2.821	98.800
218	10.900	35.761	22.220	22.325	0.569	16.870	2.549	93.800
219	10.950	35.925	19.360	19.462	0.507	16.400	2.605	104.600
220	11.000	36.089	21.960	22.105	0.369	23.270	1.669	91.700
221	11.050	36.253	32.100	32.251	0.297	24.140	0.921	106.200
222	11.100	36.417	40.470	40.554	0.242	13.410	0.597	95.000
223	11.150	36.581	37.150	37.209	0.252	9.490	0.677	74.700
224	11.200	36.745	44.110	44.159	0.312	7.920	0.707	106.300
225	11.250	36.909	54.140	54.186	0.374	7.420	0.690	97.700
226	11.300	37.073	58.030	58.077	0.427	7.470	0.735	105.500
227	11.350	37.237	58.750	58.792	0.468	6.720	0.796	82.100
228	11.400	37.401	60.440	60.482	0.526	6.800	0.870	96.900
229	11.450	37.565	65.460	65.503	0.625	6.890	0.954	93.900
230	11.500	37.729	73.920	73.966	0.760	7.420	1.027	87.600
231	11.550	37.893	94.430	94.484	0.735	8.690	0.778	99.800
232	11.600	38.057	123.380	123.446	0.877	10.570	0.710	94.800
233	11.650	38.221	151.890	151.967	1.120	12.410	0.737	86.000
234	11.700	38.385	167.850	167.932	1.500	13.190	0.893	66.600
235	11.750	38.549	154.260	154.349	1.675	14.330	1.085	76.000
236	11.800	38.713	128.900	128.980	1.534	12.830	1.189	94.500
237	11.850	38.877	115.740	115.814	1.316	11.840	1.136	85.900
238	11.900	39.042	103.130	103.201	1.230	11.330	1.192	89.600
239	11.950	39.206	97.250	97.314	1.124	10.250	1.155	88.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	98.450	98.510	1.180	9.590	1.198	76.600
241	12.050	39.534	114.520	114.583	1.377	10.090	1.202	70.200
242	12.100	39.698	138.190	138.265	1.444	12.000	1.044	68.500
243	12.150	39.862	181.650	181.741	1.560	14.550	0.858	79.500
244	12.200	40.026	235.530	235.632	1.934	16.380	0.821	82.800
245	12.250	40.190	242.360	242.497	2.481	21.920	1.023	69.500
246	12.300	40.354	206.660	206.807	2.249	23.600	1.087	72.400
247	12.350	40.518	180.560	180.669	1.749	17.530	0.968	84.300
248	12.400	40.682	155.010	155.098	1.544	14.160	0.995	0.000
249	12.450	40.846	108.880	108.944	1.518	10.180	1.393	0.000
250	12.500	41.010	57.530	57.569	1.367	6.320	2.375	0.000
251	12.550	41.174	31.370	31.409	0.784	6.240	2.496	0.000
252	12.600	41.338	29.420	29.474	0.685	8.720	2.324	0.000
253	12.650	41.502	43.700	43.739	0.649	6.300	1.484	0.000
254	12.700	41.666	48.650	48.689	0.777	6.190	1.596	0.000
255	12.750	41.830	72.290	72.332	0.983	6.710	1.359	0.000
256	12.800	41.994	98.670	98.713	0.969	6.950	0.982	0.000
257	12.850	42.158	115.010	115.061	1.006	8.170	0.874	0.000
258	12.900	42.322	117.790	117.836	1.164	7.360	0.988	0.000
259	12.950	42.486	115.030	115.077	1.259	7.470	1.094	0.000
260	13.000	42.650	108.690	108.737	1.396	7.450	1.284	0.000
261	13.050	42.814	136.620	136.669	1.692	7.840	1.238	0.000
262	13.100	42.978	229.690	229.761	0.000	11.370	0.000	0.000
263	13.150	43.143	295.750	295.859	0.000	17.490	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221494
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-3
Cone ID:	406:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-30-2014
CPT Time:	11:02
CPT File:	13-53075_GP1C-3.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722058.700
Northing / Lat:	4294224.180
Elevation:	148.150
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	5.640	5.671	0.036	4.980	0.635	22.700
2	0.100	0.328	33.740	33.766	0.089	4.100	0.264	29.800
3	0.150	0.492	51.030	51.025	0.034	-0.790	0.067	23.100
4	0.200	0.656	43.250	43.257	0.132	1.200	0.305	23.700
5	0.250	0.820	63.690	63.711	0.228	3.390	0.358	23.900
6	0.300	0.984	39.990	40.001	1.015	1.740	2.537	23.700
7	0.350	1.148	45.560	45.570	1.268	1.680	2.783	16.300
8	0.400	1.312	255.700	255.706	1.110	0.980	0.434	16.700
9	0.450	1.476	284.370	284.376	1.102	0.980	0.388	19.100
10	0.500	1.640	294.100	294.124	0.729	3.820	0.248	16.100
11	0.550	1.804	274.960	274.991	0.365	5.040	0.133	19.900
12	0.600	1.968	105.890	105.936	1.325	7.310	1.251	20.500
13	0.650	2.133	154.570	154.618	0.609	7.610	0.394	18.500
14	0.700	2.297	179.990	180.038	1.498	7.710	0.832	23.400
15	0.750	2.461	99.980	99.987	0.837	1.100	0.837	20.700
16	0.800	2.625	82.800	82.801	0.455	0.130	0.550	22.000
17	0.850	2.789	76.110	76.125	0.446	2.380	0.586	22.600
18	0.900	2.953	54.670	54.673	0.720	0.530	1.317	27.900
19	0.950	3.117	96.280	96.275	0.684	-0.830	0.710	36.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	109.770	109.775	0.927	0.730	0.844	33.400
21	1.050	3.445	142.350	142.400	1.555	7.930	1.092	47.800
22	1.100	3.609	180.450	180.448	1.625	-0.380	0.901	33.300
23	1.150	3.773	212.780	212.782	0.800	0.250	0.376	38.900
24	1.200	3.937	241.660	241.661	1.794	0.150	0.742	37.000
25	1.250	4.101	252.990	253.007	1.996	2.730	0.789	49.200
26	1.300	4.265	178.830	178.831	2.958	0.140	1.654	39.200
27	1.350	4.429	158.430	158.430	1.810	0.080	1.142	33.900
28	1.400	4.593	161.260	161.287	1.580	4.290	0.980	46.700
29	1.450	4.757	119.910	119.928	0.956	2.840	0.797	67.500
30	1.500	4.921	104.120	104.142	1.276	3.510	1.225	80.000
31	1.550	5.085	56.330	56.374	1.472	6.970	2.611	82.700
32	1.600	5.249	54.950	55.089	1.440	22.290	2.614	92.400
33	1.650	5.413	82.170	82.368	1.628	31.650	1.977	105.300
34	1.700	5.577	87.960	88.071	1.748	17.750	1.985	88.400
35	1.750	5.741	79.280	79.336	1.946	8.970	2.453	85.300
36	1.800	5.905	78.650	78.656	2.029	0.920	2.580	74.400
37	1.850	6.069	74.970	74.940	2.149	-4.780	2.868	80.000
38	1.900	6.234	71.860	71.824	2.068	-5.810	2.879	80.600
39	1.950	6.398	93.640	93.606	1.866	-5.430	1.993	77.400
40	2.000	6.562	113.060	113.040	1.648	-3.280	1.458	86.700
41	2.050	6.726	93.260	93.216	1.398	-6.980	1.500	85.800
42	2.100	6.890	74.810	74.772	1.515	-6.060	2.026	79.600
43	2.150	7.054	59.870	59.839	1.277	-4.960	2.134	57.000
44	2.200	7.218	42.080	42.056	1.155	-3.850	2.746	63.800
45	2.250	7.382	46.240	46.238	0.714	-0.280	1.544	43.500
46	2.300	7.546	60.910	60.905	0.543	-0.780	0.892	45.500
47	2.350	7.710	67.670	67.694	0.538	3.860	0.795	39.500
48	2.400	7.874	81.310	81.341	1.097	5.020	1.349	47.600
49	2.450	8.038	54.400	55.051	1.281	104.260	2.327	45.200
50	2.500	8.202	32.770	32.801	1.175	4.890	3.582	38.800
51	2.550	8.366	32.670	32.724	0.744	8.630	2.274	53.100
52	2.600	8.530	30.020	30.053	0.811	5.240	2.699	52.700
53	2.650	8.694	27.220	27.279	0.811	9.480	2.973	60.300
54	2.700	8.858	24.380	24.438	0.884	9.370	3.617	49.400
55	2.750	9.022	23.400	23.471	0.910	11.390	3.877	48.200
56	2.800	9.186	53.290	53.346	1.097	9.030	2.056	38.900
57	2.850	9.350	27.170	27.223	1.196	8.470	4.393	31.700
58	2.900	9.514	42.280	42.328	1.163	7.690	2.748	27.300
59	2.950	9.678	28.270	28.321	1.045	8.160	3.690	20.900
60	3.000	9.842	23.350	23.378	1.160	4.410	4.962	18.700
61	3.050	10.006	21.890	21.943	1.302	8.540	5.933	19.300
62	3.100	10.170	20.890	20.972	1.336	13.080	6.371	15.700
63	3.150	10.335	21.280	21.372	1.339	14.700	6.265	13.800
64	3.200	10.499	23.280	23.362	1.254	13.210	5.368	15.200
65	3.250	10.663	29.070	29.170	0.865	15.980	2.965	15.700
66	3.300	10.827	46.810	46.914	0.720	16.720	1.535	27.200
67	3.350	10.991	72.540	72.615	0.538	11.980	0.741	17.200
68	3.400	11.155	76.800	77.260	0.313	73.700	0.405	34.700
69	3.450	11.319	79.950	80.044	0.543	15.020	0.678	23.200
70	3.500	11.483	76.970	77.065	0.749	15.290	0.972	28.700
71	3.550	11.647	47.270	47.285	0.493	2.400	1.043	36.100
72	3.600	11.811	32.180	32.169	0.492	-1.730	1.529	42.200
73	3.650	11.975	37.420	37.439	0.212	3.060	0.566	38.800
74	3.700	12.139	21.680	21.685	0.362	0.850	1.669	34.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	19.160	19.216	0.481	9.020	2.503	39.800
76	3.800	12.467	19.120	19.177	0.456	9.140	2.378	35.400
77	3.850	12.631	15.150	15.160	0.459	1.640	3.028	48.500
78	3.900	12.795	13.460	13.482	0.464	3.500	3.442	45.800
79	3.950	12.959	36.900	36.903	0.497	0.470	1.347	50.900
80	4.000	13.123	24.820	24.867	0.501	7.480	2.015	56.000
81	4.050	13.287	13.850	13.888	0.567	6.160	4.083	66.500
82	4.100	13.451	18.010	18.070	0.727	9.560	4.023	69.800
83	4.150	13.615	46.010	46.008	0.650	-0.260	1.413	66.400
84	4.200	13.779	52.140	52.066	1.190	-11.900	2.286	55.500
85	4.250	13.943	34.270	34.204	1.053	-10.610	3.079	44.300
86	4.300	14.107	54.120	54.095	1.036	-4.070	1.915	31.300
87	4.350	14.271	56.790	56.748	1.554	-6.680	2.738	35.400
88	4.400	14.436	64.960	64.966	1.871	0.980	2.880	42.400
89	4.450	14.600	38.350	38.370	1.677	3.150	4.371	55.800
90	4.500	14.764	17.990	17.995	1.032	0.840	5.735	56.900
91	4.550	14.928	24.690	24.749	0.688	9.490	2.780	62.500
92	4.600	15.092	29.140	29.153	0.983	2.070	3.372	54.800
93	4.650	15.256	34.220	34.228	0.590	1.330	1.724	61.100
94	4.700	15.420	49.870	49.849	0.699	-3.360	1.402	42.500
95	4.750	15.584	55.470	55.513	0.763	6.920	1.374	46.900
96	4.800	15.748	76.140	76.170	1.976	4.780	2.594	50.100
97	4.850	15.912	65.990	66.014	1.484	3.790	2.248	61.800
98	4.900	16.076	105.940	105.898	2.205	-6.750	2.082	65.400
99	4.950	16.240	110.620	110.576	2.743	-6.980	2.481	82.800
100	5.000	16.404	95.580	95.632	2.865	8.310	2.996	93.500
101	5.050	16.568	112.020	112.058	2.814	6.050	2.511	82.200
102	5.100	16.732	101.340	101.346	3.113	0.960	3.072	72.300
103	5.150	16.896	87.930	87.935	3.094	0.840	3.518	50.700
104	5.200	17.060	79.360	79.383	2.704	3.650	3.406	60.500
105	5.250	17.224	85.020	85.065	2.203	7.240	2.590	56.400
106	5.300	17.388	88.390	88.436	1.741	7.440	1.969	51.100
107	5.350	17.552	102.220	102.254	2.204	5.380	2.155	59.400
108	5.400	17.716	71.120	71.145	2.145	3.980	3.015	41.100
109	5.450	17.880	39.350	39.363	1.951	2.060	4.956	64.200
110	5.500	18.044	39.600	39.621	1.322	3.320	3.337	71.700
111	5.550	18.208	32.350	32.497	0.939	23.570	2.889	84.500
112	5.600	18.372	44.880	44.949	0.604	10.980	1.344	79.400
113	5.650	18.537	44.060	44.100	0.426	6.420	0.966	80.500
114	5.700	18.701	42.570	42.598	0.396	4.500	0.930	72.400
115	5.750	18.865	42.020	42.041	0.939	3.350	2.234	55.200
116	5.800	19.029	71.220	71.256	1.524	5.800	2.139	41.600
117	5.850	19.193	74.590	74.620	1.825	4.750	2.446	32.100
118	5.900	19.357	53.770	53.780	2.716	1.580	5.050	29.100
119	5.950	19.521	80.280	80.390	3.011	17.600	3.745	21.700
120	6.000	19.685	90.540	90.618	3.303	12.450	3.645	19.300
121	6.050	19.849	150.660	150.750	3.417	14.430	2.267	22.700
122	6.100	20.013	116.830	116.868	3.459	6.070	2.960	13.100
123	6.150	20.177	142.020	142.097	1.891	12.310	1.331	19.400
124	6.200	20.341	76.820	76.826	0.265	0.900	0.345	17.700
125	6.250	20.505	72.620	72.710	0.018	14.430	0.025	13.200
126	6.300	20.669	75.480	75.556	0.484	12.210	0.641	21.600
127	6.350	20.833	70.310	70.382	0.451	11.520	0.641	36.800
128	6.400	20.997	52.880	52.918	0.574	6.160	1.085	35.900
129	6.450	21.161	60.240	60.338	0.499	15.630	0.827	56.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	48.730	48.794	0.358	10.190	0.734	67.800
131	6.550	21.489	28.800	28.917	0.495	18.740	1.712	86.600
132	6.600	21.653	34.080	34.178	0.576	15.690	1.685	87.200
133	6.650	21.817	32.960	33.052	0.668	14.760	2.021	87.800
134	6.700	21.981	30.160	30.232	0.650	11.510	2.150	109.600
135	6.750	22.145	23.740	23.800	0.644	9.680	2.706	100.900
136	6.800	22.309	26.650	26.715	0.598	10.350	2.238	93.200
137	6.850	22.473	25.270	25.321	0.613	8.130	2.421	80.200
138	6.900	22.638	23.360	23.391	0.521	4.960	2.227	72.600
139	6.950	22.802	16.390	16.428	0.398	6.100	2.423	83.600
140	7.000	22.966	12.640	12.694	0.337	8.690	2.655	70.400
141	7.050	23.130	14.170	14.229	0.482	9.400	3.388	64.500
142	7.100	23.294	14.780	14.859	0.371	12.710	2.497	53.200
143	7.150	23.458	74.400	74.487	0.716	14.010	0.961	38.600
144	7.200	23.622	44.980	45.058	1.388	12.540	3.080	29.800
145	7.250	23.786	79.950	80.028	1.636	12.500	2.044	25.300
146	7.300	23.950	69.730	69.761	1.503	4.890	2.155	26.900
147	7.350	24.114	54.330	54.368	1.410	6.100	2.593	17.000
148	7.400	24.278	47.240	47.290	1.067	8.000	2.256	18.800
149	7.450	24.442	26.350	26.398	0.908	7.640	3.440	22.200
150	7.500	24.606	63.020	63.063	0.653	6.880	1.035	17.100
151	7.550	24.770	46.040	46.100	0.303	9.660	0.657	25.900
152	7.600	24.934	39.840	39.891	0.656	8.140	1.644	31.000
153	7.650	25.098	47.900	47.951	0.602	8.190	1.255	29.900
154	7.700	25.262	42.010	42.048	0.591	6.050	1.406	40.600
155	7.750	25.426	50.200	50.251	0.851	8.130	1.694	45.000
156	7.800	25.590	41.930	41.971	0.758	6.600	1.806	54.600
157	7.850	25.754	24.090	24.179	0.636	14.240	2.630	72.500
158	7.900	25.918	24.920	25.001	0.620	12.920	2.480	90.100
159	7.950	26.082	24.620	24.678	0.819	9.310	3.319	73.600
160	8.000	26.246	25.780	25.869	0.668	14.330	2.582	81.500
161	8.050	26.410	36.050	36.168	0.649	18.900	1.794	76.100
162	8.100	26.574	23.400	23.413	0.562	2.090	2.400	72.000
163	8.150	26.739	19.450	19.497	0.609	7.580	3.124	57.600
164	8.200	26.903	16.020	16.118	0.394	15.730	2.444	55.100
165	8.250	27.067	18.440	18.486	0.311	7.430	1.682	44.800
166	8.300	27.231	22.680	22.720	0.338	6.460	1.488	41.300
167	8.350	27.395	44.370	44.385	0.956	2.400	2.154	29.600
168	8.400	27.559	84.480	84.494	1.286	2.300	1.522	29.000
169	8.450	27.723	80.130	80.151	1.552	3.420	1.936	23.200
170	8.500	27.887	90.650	90.669	0.677	3.000	0.747	19.800
171	8.550	28.051	59.330	59.461	0.736	20.920	1.238	18.300
172	8.600	28.215	50.610	50.680	2.213	11.240	4.367	19.900
173	8.650	28.379	58.040	58.108	1.022	10.890	1.759	19.500
174	8.700	28.543	86.300	86.266	1.034	-5.430	1.199	19.600
175	8.750	28.707	104.340	104.395	1.024	8.800	0.981	10.300
176	8.800	28.871	47.620	47.596	1.756	-3.880	3.689	16.800
177	8.850	29.035	123.610	123.700	2.783	14.430	2.250	14.500
178	8.900	29.199	111.200	111.236	2.542	5.710	2.285	17.800
179	8.950	29.363	109.400	109.397	0.615	-0.490	0.562	19.500
180	9.000	29.527	25.440	25.403	0.042	-5.990	0.165	26.800
181	9.050	29.691	117.410	117.427	0.039	2.730	0.033	25.600
182	9.100	29.855	102.350	102.407	1.128	9.210	1.101	30.300
183	9.150	30.019	112.420	112.449	1.115	4.620	0.992	39.100
184	9.200	30.183	73.480	73.624	1.109	23.010	1.506	34.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	58.810	58.897	0.372	13.870	0.632	44.100
186	9.300	30.511	40.230	40.290	0.371	9.620	0.921	64.700
187	9.350	30.675	57.600	57.673	0.834	11.740	1.446	69.500
188	9.400	30.840	63.500	63.563	0.798	10.120	1.255	76.300
189	9.450	31.004	61.540	61.603	0.798	10.100	1.295	77.400
190	9.500	31.168	58.920	58.978	1.115	9.270	1.891	84.400
191	9.550	31.332	58.390	58.468	1.354	12.540	2.316	73.600
192	9.600	31.496	53.160	53.203	1.335	6.920	2.509	70.200
193	9.650	31.660	55.540	55.577	1.448	5.920	2.605	72.200
194	9.700	31.824	113.110	113.142	1.998	5.100	1.766	80.500
195	9.750	31.988	96.220	96.251	2.220	4.970	2.306	69.500
196	9.800	32.152	39.430	39.471	2.245	6.590	5.688	85.200
197	9.850	32.316	75.950	76.095	1.656	23.190	2.176	87.100
198	9.900	32.480	94.800	94.878	1.566	12.450	1.651	90.500
199	9.950	32.644	66.070	66.120	1.958	8.070	2.961	93.100
200	10.000	32.808	44.630	44.666	1.655	5.760	3.705	91.400
201	10.050	32.972	32.340	32.388	1.432	7.630	4.421	73.900
202	10.100	33.136	35.020	35.080	1.057	9.640	3.013	72.400
203	10.150	33.300	35.650	35.723	1.247	11.700	3.491	61.900
204	10.200	33.464	50.080	50.156	1.673	12.220	3.336	39.700
205	10.250	33.628	60.780	60.891	1.631	17.760	2.679	30.200
206	10.300	33.792	130.220	130.336	2.004	18.540	1.538	25.000
207	10.350	33.956	154.630	154.712	1.876	13.210	1.213	32.400
208	10.400	34.120	113.350	113.411	1.960	9.770	1.728	13.400
209	10.450	34.284	76.860	76.899	1.894	6.200	2.463	15.100
210	10.500	34.448	65.210	65.267	1.744	9.170	2.672	12.000
211	10.550	34.612	36.490	36.558	1.518	10.970	4.152	8.600
212	10.600	34.776	29.670	29.849	1.448	28.730	4.851	8.500
213	10.650	34.941	37.470	37.615	1.382	23.230	3.674	11.500
214	10.700	35.105	74.740	74.836	1.883	15.440	2.516	10.500
215	10.750	35.269	110.550	110.643	2.232	14.830	2.017	8.400
216	10.800	35.433	97.000	97.034	5.830	5.460	6.008	8.000
217	10.850	35.597	142.200	142.215	4.261	2.370	2.996	9.400
218	10.900	35.761	153.320	153.294	2.593	-4.240	1.692	14.300
219	10.950	35.925	104.080	104.182	2.409	16.320	2.312	9.800
220	11.000	36.089	112.200	112.264	2.108	10.260	1.878	13.400
221	11.050	36.253	52.730	52.981	2.186	40.130	4.126	17.500
222	11.100	36.417	53.090	53.738	1.712	103.780	3.186	14.000
223	11.150	36.581	48.280	48.651	1.398	59.450	2.874	19.500
224	11.200	36.745	39.670	39.900	1.281	36.840	3.211	23.100
225	11.250	36.909	33.650	33.858	1.168	33.280	3.450	24.500
226	11.300	37.073	78.950	79.127	0.873	28.340	1.103	31.400
227	11.350	37.237	90.830	90.995	1.258	26.410	1.382	31.000
228	11.400	37.401	68.290	68.420	1.341	20.850	1.960	36.200
229	11.450	37.565	218.590	218.844	1.447	40.670	0.661	43.400
230	11.500	37.729	295.760	295.846	1.424	13.770	0.481	44.100
231	11.550	37.893	303.200	303.248	1.663	7.660	0.548	51.000
232	11.600	38.057	331.620	331.664	2.715	7.080	0.819	54.400
233	11.650	38.221	343.360	343.406	4.740	7.320	1.380	75.400
234	11.700	38.385	280.850	280.889	5.976	6.240	2.128	67.100
235	11.750	38.549	207.280	207.326	5.832	7.400	2.813	60.500
236	11.800	38.713	129.240	129.280	5.346	6.430	4.135	57.800
237	11.850	38.877	90.010	90.047	3.548	5.980	3.940	36.600
238	11.900	39.042	86.340	86.386	3.037	7.320	3.516	30.400
239	11.950	39.206	76.160	76.206	3.097	7.370	4.064	24.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	184.950	185.011	3.435	9.780	1.857	20.100
241	12.050	39.534	205.460	205.550	3.490	14.430	1.698	19.600
242	12.100	39.698	166.660	166.744	2.797	13.490	1.677	13.800
243	12.150	39.862	126.130	126.166	2.428	5.840	1.924	0.000
244	12.200	40.026	35.360	35.354	1.095	-1.040	3.097	0.000
245	12.250	40.190	59.240	59.252	1.276	1.960	2.154	0.000
246	12.300	40.354	61.680	61.666	1.209	-2.220	1.961	0.000
247	12.350	40.518	222.290	222.309	0.972	3.040	0.437	0.000
248	12.400	40.682	140.440	140.490	2.502	8.010	1.781	0.000
249	12.450	40.846	171.600	171.653	2.765	8.480	1.611	0.000
250	12.500	41.010	169.390	169.441	2.535	8.090	1.496	0.000
251	12.550	41.174	124.770	124.875	2.712	16.860	2.172	0.000
252	12.600	41.338	80.090	80.197	3.716	17.070	4.634	0.000
253	12.650	41.502	100.530	100.624	2.906	15.070	2.888	0.000
254	12.700	41.666	139.060	139.152	2.132	14.690	1.532	0.000
255	12.750	41.830	136.460	136.562	1.839	16.280	1.347	0.000
256	12.800	41.994	108.370	108.456	1.267	13.730	1.168	0.000
257	12.850	42.158	55.760	55.833	0.000	11.620	0.000	0.000
258	12.900	42.322	71.970	72.147	0.000	28.360	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221496
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-4
Cone ID:	406:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-30-2014
CPT Time:	08:38
CPT File:	13-53075_GP1C-4.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	N/A
Col 5 (Extra Module) Units	N/A
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722081.910
Northing / Lat:	4294240.960
Elevation:	148.050
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
1	0.050	0.164	6.840	6.839	0.000	-0.240	0.000
2	0.100	0.328	11.780	11.840	0.001	9.690	0.008
3	0.150	0.492	39.230	39.398	0.001	26.930	0.003
4	0.200	0.656	281.590	281.695	1.498	16.890	0.532
5	0.250	0.820	305.610	305.619	2.429	1.420	0.795
6	0.300	0.984	351.130	351.159	2.494	4.620	0.710
7	0.350	1.148	245.130	245.221	2.275	14.570	0.928
8	0.400	1.312	157.380	157.499	2.179	18.990	1.384
9	0.450	1.476	150.690	150.839	1.916	23.890	1.270
10	0.500	1.640	152.460	152.469	1.802	1.440	1.182
11	0.550	1.804	140.680	140.611	2.247	-11.050	1.598
12	0.600	1.968	144.930	144.911	2.115	-3.080	1.460
13	0.650	2.133	109.540	109.527	2.085	-2.020	1.904
14	0.700	2.297	105.470	105.469	2.369	-0.200	2.246
15	0.750	2.461	68.370	68.379	1.957	1.440	2.862
16	0.800	2.625	62.920	62.969	1.719	7.790	2.730
17	0.850	2.789	62.670	62.676	1.567	0.920	2.500
18	0.900	2.953	58.380	58.394	1.360	2.210	2.329
19	0.950	3.117	41.510	41.528	1.148	2.850	2.764

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
20	1.000	3.281	42.700	42.786	1.179	13.710	2.756
21	1.050	3.445	49.050	49.069	1.082	3.080	2.205
22	1.100	3.609	51.620	51.597	1.061	-3.620	2.056
23	1.150	3.773	51.230	51.192	1.038	-6.100	2.028
24	1.200	3.937	44.410	44.344	0.921	-10.500	2.077
25	1.250	4.101	38.660	38.582	0.824	-12.440	2.136
26	1.300	4.265	35.950	35.873	0.807	-12.380	2.250
27	1.350	4.429	32.300	32.231	0.780	-11.030	2.420
28	1.400	4.593	31.340	31.287	0.804	-8.530	2.570
29	1.450	4.757	44.160	44.138	0.717	-3.540	1.624
30	1.500	4.921	58.810	58.782	0.274	-4.460	0.466
31	1.550	5.085	93.500	93.498	1.160	-0.270	1.241
32	1.600	5.249	94.910	94.920	1.324	1.620	1.395
33	1.650	5.413	61.140	61.254	1.287	18.280	2.101
34	1.700	5.577	46.590	46.638	0.709	7.740	1.520
35	1.750	5.741	46.640	46.668	0.557	4.410	1.194
36	1.800	5.905	51.910	51.937	0.611	4.330	1.176
37	1.850	6.069	46.110	46.071	0.753	-6.250	1.634
38	1.900	6.234	55.320	55.321	0.677	0.220	1.224
39	1.950	6.398	70.640	70.638	0.646	-0.290	0.915
40	2.000	6.562	73.120	73.142	0.651	3.480	0.890
41	2.050	6.726	76.640	76.658	0.896	2.850	1.169
42	2.100	6.890	78.170	78.183	0.889	2.020	1.137
43	2.150	7.054	83.210	83.242	1.176	5.140	1.413
44	2.200	7.218	86.400	86.396	1.038	-0.570	1.201
45	2.250	7.382	77.630	77.633	1.553	0.440	2.000
46	2.300	7.546	72.560	72.565	1.067	0.770	1.470
47	2.350	7.710	111.670	111.673	1.023	0.510	0.916
48	2.400	7.874	126.050	126.053	1.290	0.500	1.023
49	2.450	8.038	101.900	101.920	1.427	3.220	1.400
50	2.500	8.202	39.230	39.234	1.088	0.690	2.773
51	2.550	8.366	42.810	42.869	0.824	9.480	1.922
52	2.600	8.530	37.920	38.122	0.684	32.400	1.794
53	2.650	8.694	27.640	27.686	0.712	7.430	2.572
54	2.700	8.858	29.440	29.497	0.469	9.210	1.590
55	2.750	9.022	24.530	24.562	0.251	5.120	1.022
56	2.800	9.186	28.460	28.505	0.277	7.250	0.972
57	2.850	9.350	27.640	27.640	0.182	-0.070	0.658
58	2.900	9.514	35.890	35.888	0.200	-0.300	0.557
59	2.950	9.678	41.020	41.031	0.182	1.750	0.444
60	3.000	9.842	35.760	35.816	0.339	8.930	0.947
61	3.050	10.006	21.460	21.508	0.320	7.740	1.488
62	3.100	10.170	18.520	18.529	0.356	1.520	1.921
63	3.150	10.335	23.880	23.945	0.468	10.380	1.954
64	3.200	10.499	22.860	22.917	0.441	9.150	1.924
65	3.250	10.663	6.540	6.555	0.333	2.400	5.080
66	3.300	10.827	4.350	4.389	0.178	6.300	4.055
67	3.350	10.991	9.580	9.655	0.177	11.940	1.833
68	3.400	11.155	15.220	15.246	0.200	4.180	1.312
69	3.450	11.319	11.810	11.810	0.253	-0.040	2.142
70	3.500	11.483	10.060	10.093	0.207	5.240	2.051
71	3.550	11.647	10.600	10.645	0.235	7.220	2.208
72	3.600	11.811	16.500	16.694	0.338	31.010	2.025
73	3.650	11.975	21.010	21.084	0.635	11.800	3.012
74	3.700	12.139	28.140	28.206	0.748	10.640	2.652

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
75	3.750	12.303	26.970	26.974	0.830	0.720	3.077
76	3.800	12.467	24.670	24.644	0.645	-4.140	2.617
77	3.850	12.631	21.160	21.109	0.581	-8.230	2.752
78	3.900	12.795	22.700	22.701	0.734	0.110	3.233
79	3.950	12.959	26.980	27.110	0.602	20.870	2.221
80	4.000	13.123	7.870	7.871	0.609	0.210	7.737
81	4.050	13.287	23.850	23.914	0.675	10.200	2.823
82	4.100	13.451	28.000	28.033	1.311	5.220	4.677
83	4.150	13.615	22.020	22.081	1.667	9.730	7.550
84	4.200	13.779	80.130	80.522	1.607	62.780	1.996
85	4.250	13.943	42.290	42.326	1.453	5.800	3.433
86	4.300	14.107	56.390	56.409	2.065	3.060	3.661
87	4.350	14.271	72.200	72.634	1.590	69.510	2.189
88	4.400	14.436	45.140	45.312	1.443	27.520	3.185
89	4.450	14.600	47.380	47.416	1.408	5.720	2.969
90	4.500	14.764	45.230	45.250	0.990	3.170	2.188
91	4.550	14.928	31.710	31.746	0.912	5.700	2.873
92	4.600	15.092	29.900	29.981	0.859	13.030	2.865
93	4.650	15.256	40.490	40.542	0.746	8.400	1.840
94	4.700	15.420	32.070	32.045	0.558	-4.000	1.741
95	4.750	15.584	32.440	32.418	0.639	-3.520	1.971
96	4.800	15.748	19.410	19.474	0.613	10.180	3.148
97	4.850	15.912	16.510	16.525	0.459	2.440	2.778
98	4.900	16.076	32.350	32.370	0.738	3.210	2.280
99	4.950	16.240	32.800	33.095	0.953	47.200	2.880
100	5.000	16.404	43.290	43.315	1.197	4.020	2.763
101	5.050	16.568	32.660	32.691	1.218	4.890	3.726
102	5.100	16.732	35.340	35.423	1.174	13.340	3.314
103	5.150	16.896	47.460	47.508	1.161	7.760	2.444
104	5.200	17.060	60.860	60.856	1.588	-0.710	2.609
105	5.250	17.224	61.260	61.308	1.734	7.720	2.828
106	5.300	17.388	41.630	41.712	1.714	13.060	4.109
107	5.350	17.552	64.410	64.460	2.050	7.970	3.180
108	5.400	17.716	51.390	51.401	2.101	1.700	4.087
109	5.450	17.880	77.220	77.256	1.966	5.790	2.545
110	5.500	18.044	117.520	117.579	1.210	9.460	1.029
111	5.550	18.208	107.000	107.060	0.729	9.670	0.681
112	5.600	18.372	74.800	74.865	0.666	10.410	0.890
113	5.650	18.537	44.050	44.110	0.502	9.650	1.138
114	5.700	18.701	21.150	21.154	0.431	0.650	2.037
115	5.750	18.865	24.000	24.007	0.485	1.100	2.020
116	5.800	19.029	24.730	24.772	0.423	6.680	1.708
117	5.850	19.193	26.280	26.380	0.411	15.980	1.558
118	5.900	19.357	23.210	23.236	0.386	4.130	1.661
119	5.950	19.521	20.990	21.056	0.404	10.590	1.919
120	6.000	19.685	20.560	20.642	0.492	13.140	2.383
121	6.050	19.849	18.610	18.688	0.645	12.530	3.451
122	6.100	20.013	25.700	25.751	0.592	8.200	2.299
123	6.150	20.177	34.070	34.109	0.530	6.320	1.554
124	6.200	20.341	15.600	15.656	0.414	8.900	2.644
125	6.250	20.505	29.920	29.920	0.598	-0.080	1.999
126	6.300	20.669	22.070	22.073	0.616	0.530	2.791
127	6.350	20.833	32.210	32.246	0.594	5.700	1.842
128	6.400	20.997	36.650	36.650	0.587	0.060	1.602
129	6.450	21.161	33.550	33.555	0.634	0.730	1.889

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
130	6.500	21.325	27.530	27.601	0.514	11.370	1.862
131	6.550	21.489	31.570	31.659	0.460	14.300	1.453
132	6.600	21.653	27.210	27.241	0.506	4.930	1.858
133	6.650	21.817	36.840	36.861	0.545	3.400	1.479
134	6.700	21.981	33.810	33.841	0.581	4.900	1.717
135	6.750	22.145	29.340	29.384	0.767	7.120	2.610
136	6.800	22.309	38.700	38.736	0.903	5.840	2.331
137	6.850	22.473	41.480	41.506	0.987	4.140	2.378
138	6.900	22.638	40.760	40.917	1.079	25.150	2.637
139	6.950	22.802	44.440	44.475	1.040	5.660	2.338
140	7.000	22.966	21.000	21.098	0.991	15.740	4.697
141	7.050	23.130	17.790	17.916	0.811	20.110	4.527
142	7.100	23.294	14.940	15.097	0.684	25.140	4.531
143	7.150	23.458	14.880	14.925	0.678	7.260	4.543
144	7.200	23.622	13.690	13.834	0.645	23.000	4.663
145	7.250	23.786	16.250	16.445	0.543	31.300	3.302
146	7.300	23.950	14.970	15.115	0.414	23.220	2.739
147	7.350	24.114	13.020	13.269	0.388	39.880	2.924
148	7.400	24.278	12.680	12.981	0.454	48.220	3.497
149	7.450	24.442	16.760	17.082	0.770	51.640	4.508
150	7.500	24.606	21.530	21.587	0.770	9.130	3.567
151	7.550	24.770	20.000	20.021	0.880	3.360	4.395
152	7.600	24.934	17.380	17.445	0.831	10.490	4.763
153	7.650	25.098	14.500	14.506	0.638	1.020	4.398
154	7.700	25.262	15.130	15.220	0.654	14.380	4.297
155	7.750	25.426	15.880	15.927	0.636	7.570	3.993
156	7.800	25.590	26.340	26.449	0.781	17.500	2.953
157	7.850	25.754	26.180	26.148	0.885	-5.140	3.385
158	7.900	25.918	29.160	29.154	0.963	-1.020	3.303
159	7.950	26.082	50.960	50.895	0.855	-10.450	1.680
160	8.000	26.246	65.860	65.907	1.000	7.590	1.517
161	8.050	26.410	55.170	55.230	0.804	9.560	1.456
162	8.100	26.574	24.410	24.390	0.766	-3.200	3.141
163	8.150	26.739	60.150	60.231	0.621	12.970	1.031
164	8.200	26.903	80.190	80.264	0.939	11.890	1.170
165	8.250	27.067	36.280	36.310	0.996	4.780	2.743
166	8.300	27.231	19.490	19.502	0.869	1.950	4.456
167	8.350	27.395	10.910	10.924	0.410	2.300	3.753
168	8.400	27.559	3.790	3.793	0.150	0.450	3.955
169	8.450	27.723	0.430	0.437	0.135	1.200	30.858
170	8.500	27.887	1.740	1.759	0.087	3.120	4.945
171	8.550	28.051	14.350	14.358	0.244	1.340	1.699
172	8.600	28.215	8.640	8.613	0.126	-4.360	1.463
173	8.650	28.379	14.050	14.045	0.380	-0.810	2.706
174	8.700	28.543	5.240	5.337	0.307	15.530	5.752
175	8.750	28.707	15.070	15.088	0.318	2.840	2.108
176	8.800	28.871	35.150	35.174	0.874	3.920	2.485
177	8.850	29.035	47.870	47.986	1.074	18.580	2.238
178	8.900	29.199	21.870	21.958	1.070	14.120	4.873
179	8.950	29.363	29.000	29.116	0.903	18.570	3.101
180	9.000	29.527	42.960	43.008	0.935	7.650	2.174
181	9.050	29.691	65.840	65.903	1.219	10.050	1.850
182	9.100	29.855	39.820	39.981	1.168	25.860	2.921
183	9.150	30.019	27.060	27.309	1.086	39.920	3.977
184	9.200	30.183	24.890	25.087	0.833	31.630	3.320

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
185	9.250	30.347	24.070	24.073	0.802	0.500	3.332
186	9.300	30.511	21.220	21.289	0.752	11.100	3.532
187	9.350	30.675	15.410	15.452	0.838	6.730	5.423
188	9.400	30.840	15.500	15.507	0.702	1.140	4.527
189	9.450	31.004	13.630	13.656	0.538	4.160	3.940
190	9.500	31.168	12.630	12.704	0.324	11.790	2.550
191	9.550	31.332	14.420	14.414	0.351	-1.030	2.435
192	9.600	31.496	39.350	39.466	0.717	18.590	1.817
193	9.650	31.660	53.190	53.348	0.936	25.310	1.755
194	9.700	31.824	21.450	21.537	1.086	14.000	5.042
195	9.750	31.988	19.870	20.073	0.802	32.560	3.995
196	9.800	32.152	22.690	22.962	0.657	43.640	2.861
197	9.850	32.316	55.230	55.780	0.827	88.150	1.483
198	9.900	32.480	72.260	72.341	1.009	12.980	1.395
199	9.950	32.644	58.220	58.287	1.094	10.780	1.877
200	10.000	32.808	46.470	46.504	1.297	5.370	2.789
201	10.050	32.972	59.830	59.877	1.312	7.570	2.191
202	10.100	33.136	68.900	69.120	1.595	35.250	2.308
203	10.150	33.300	69.080	69.223	1.435	22.900	2.073
204	10.200	33.464	47.970	48.019	1.314	7.840	2.736
205	10.250	33.628	45.210	45.232	1.161	3.580	2.567
206	10.300	33.792	29.680	29.659	0.959	-3.310	3.233
207	10.350	33.956	21.390	21.446	0.925	8.900	4.313
208	10.400	34.120	30.770	30.824	1.031	8.580	3.345
209	10.450	34.284	47.980	48.047	1.188	10.690	2.473
210	10.500	34.448	87.420	87.443	2.083	3.610	2.382
211	10.550	34.612	76.310	76.383	2.174	11.620	2.846
212	10.600	34.776	35.670	35.757	1.876	13.900	5.247
213	10.650	34.941	31.660	32.328	1.205	106.940	3.727
214	10.700	35.105	30.070	30.448	1.139	60.480	3.741
215	10.750	35.269	32.310	32.639	1.074	52.740	3.291
216	10.800	35.433	46.930	47.239	1.270	49.470	2.688
217	10.850	35.597	66.770	66.785	1.485	2.430	2.224
218	10.900	35.761	45.110	45.069	1.520	-6.620	3.373
219	10.950	35.925	34.060	34.066	1.309	0.980	3.843
220	11.000	36.089	31.160	31.220	1.066	9.650	3.414
221	11.050	36.253	34.620	34.652	1.019	5.090	2.941
222	11.100	36.417	36.490	36.476	1.094	-2.260	2.999
223	11.150	36.581	35.950	35.984	1.400	5.460	3.891
224	11.200	36.745	37.690	37.745	1.446	8.840	3.831
225	11.250	36.909	65.790	65.813	1.714	3.720	2.604
226	11.300	37.073	43.380	43.406	1.643	4.130	3.785
227	11.350	37.237	27.570	27.665	1.321	15.160	4.775
228	11.400	37.401	30.530	30.646	1.276	18.530	4.164
229	11.450	37.565	30.260	30.346	1.335	13.770	4.399
230	11.500	37.729	36.550	36.678	1.259	20.560	3.433
231	11.550	37.893	50.300	50.491	1.507	30.660	2.985
232	11.600	38.057	55.090	55.172	1.578	13.060	2.860
233	11.650	38.221	41.740	41.791	1.954	8.240	4.676
234	11.700	38.385	32.810	32.856	1.654	7.410	5.034
235	11.750	38.549	52.710	52.976	1.836	42.570	3.466
236	11.800	38.713	89.450	89.520	1.064	11.220	1.189
237	11.850	38.877	78.090	78.144	1.623	8.590	2.077
238	11.900	39.042	56.960	56.962	2.190	0.390	3.845
239	11.950	39.206	65.760	65.833	3.154	11.660	4.791

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
240	12.000	39.370	81.800	81.916	2.591	18.550	3.163
241	12.050	39.534	71.420	71.583	2.589	26.080	3.617
242	12.100	39.698	68.290	68.336	2.038	7.380	2.982
243	12.150	39.862	64.620	64.654	1.996	5.390	3.087
244	12.200	40.026	34.970	35.004	1.737	5.440	4.962
245	12.250	40.190	32.650	32.877	1.619	36.360	4.924
246	12.300	40.354	39.770	39.962	1.538	30.780	3.849
247	12.350	40.518	62.370	62.536	1.685	26.600	2.694
248	12.400	40.682	48.500	48.663	1.599	26.080	3.286
249	12.450	40.846	15.920	15.977	1.036	9.080	6.484
250	12.500	41.010	10.940	11.024	1.127	13.390	10.224
251	12.550	41.174	69.550	69.548	1.974	-0.330	2.838
252	12.600	41.338	89.110	89.827	2.933	114.870	3.265
253	12.650	41.502	104.370	106.095	3.407	276.260	3.211
254	12.700	41.666	87.310	88.123	3.199	130.250	3.630
255	12.750	41.830	69.500	71.313	2.168	290.470	3.040
256	12.800	41.994	26.180	26.361	1.549	28.930	5.876
257	12.850	42.158	35.160	35.204	0.956	7.060	2.716
258	12.900	42.322	44.760	44.769	1.135	1.380	2.535
259	12.950	42.486	30.550	30.591	1.601	6.540	5.234
260	13.000	42.650	46.360	46.405	1.516	7.270	3.267
261	13.050	42.814	27.280	27.367	1.357	13.900	4.959
262	13.100	42.978	23.260	23.306	1.415	7.400	6.071
263	13.150	43.143	28.860	28.936	1.165	12.180	4.026
264	13.200	43.307	95.370	95.538	1.790	26.900	1.874
265	13.250	43.471	129.630	129.786	2.189	24.980	1.687
266	13.300	43.635	100.870	100.906	2.769	5.720	2.744
267	13.350	43.799	96.730	96.768	2.371	6.030	2.450
268	13.400	43.963	54.950	54.955	2.473	0.740	4.500
269	13.450	44.127	56.480	56.485	1.866	0.850	3.304
270	13.500	44.291	59.510	59.530	2.183	3.270	3.667
271	13.550	44.455	68.240	68.247	1.419	1.190	2.079
272	13.600	44.619	48.340	48.278	1.570	-9.860	3.252
273	13.650	44.783	50.760	50.841	1.768	12.940	3.478
274	13.700	44.947	59.250	59.284	2.222	5.430	3.748
275	13.750	45.111	58.950	58.958	2.484	1.280	4.213
276	13.800	45.275	64.120	64.145	2.445	3.980	3.812
277	13.850	45.439	56.160	56.175	1.636	2.330	2.912
278	13.900	45.603	64.890	64.892	2.510	0.330	3.868
279	13.950	45.767	58.670	58.662	2.505	-1.330	4.270
280	14.000	45.931	35.300	35.298	2.087	-0.330	5.913
281	14.050	46.095	34.300	34.292	0.642	-1.250	1.872
282	14.100	46.259	23.870	23.853	0.468	-2.700	1.962
283	14.150	46.423	23.690	23.680	0.589	-1.670	2.487
284	14.200	46.587	25.920	25.917	0.744	-0.510	2.871
285	14.250	46.751	23.190	23.200	0.786	1.570	3.388
286	14.300	46.915	26.680	26.742	1.107	9.880	4.140
287	14.350	47.079	58.830	58.899	1.835	11.090	3.115
288	14.400	47.244	56.950	57.009	2.005	9.530	3.517
289	14.450	47.408	47.340	47.482	2.509	22.800	5.284
290	14.500	47.572	89.440	89.677	2.903	37.910	3.237
291	14.550	47.736	79.330	79.478	2.746	23.630	3.455
292	14.600	47.900	39.530	39.671	2.348	22.660	5.919
293	14.650	48.064	24.140	24.213	1.279	11.690	5.282
294	14.700	48.228	24.770	24.830	1.258	9.610	5.066

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
295	14.750	48.392	54.590	54.673	1.226	13.290	2.242
296	14.800	48.556	49.700	49.805	1.600	16.840	3.213
297	14.850	48.720	96.310	96.334	1.611	3.850	1.672
298	14.900	48.884	31.480	31.612	1.821	21.080	5.761
299	14.950	49.048	43.410	43.420	1.577	1.590	3.632
300	15.000	49.212	34.850	34.851	1.629	0.230	4.674
301	15.050	49.376	27.140	27.133	1.427	-1.110	5.259
302	15.100	49.540	18.180	18.216	1.004	5.770	5.512
303	15.150	49.704	20.480	20.568	0.662	14.170	3.219
304	15.200	49.868	32.370	32.478	0.537	17.310	1.653
305	15.250	50.032	33.670	33.852	0.842	29.120	2.487
306	15.300	50.196	36.130	36.287	1.137	25.120	3.133
307	15.350	50.360	37.210	37.454	1.238	39.120	3.305
308	15.400	50.524	50.230	50.566	1.502	53.790	2.970
309	15.450	50.688	56.300	56.393	1.864	14.840	3.305
310	15.500	50.852	44.980	45.224	1.543	39.060	3.412
311	15.550	51.016	69.500	69.909	2.093	65.490	2.994
312	15.600	51.180	79.150	79.261	1.718	17.860	2.168
313	15.650	51.345	79.620	79.730	2.226	17.550	2.792
314	15.700	51.509	114.240	114.253	3.248	2.160	2.843
315	15.750	51.673	115.240	115.286	3.938	7.420	3.416
316	15.800	51.837	95.410	95.502	3.869	14.710	4.051
317	15.850	52.001	60.580	60.699	3.272	19.100	5.391
318	15.900	52.165	57.700	57.810	2.573	17.680	4.451
319	15.950	52.329	46.140	46.408	1.890	42.850	4.073
320	16.000	52.493	35.080	35.222	1.429	22.790	4.057
321	16.050	52.657	31.480	31.713	1.423	37.380	4.487
322	16.100	52.821	31.940	32.281	1.443	54.550	4.470
323	16.150	52.985	83.120	84.102	2.156	157.330	2.564
324	16.200	53.149	93.030	93.101	2.896	11.310	3.111
325	16.250	53.313	77.580	77.623	3.101	6.850	3.995
326	16.300	53.477	48.370	48.454	2.380	13.390	4.912
327	16.350	53.641	71.760	71.839	1.862	12.630	2.592
328	16.400	53.805	88.390	88.495	2.424	16.840	2.739
329	16.450	53.969	94.320	94.506	2.574	29.740	2.724
330	16.500	54.133	89.590	90.190	2.977	96.150	3.301
331	16.550	54.297	72.940	73.074	2.415	21.450	3.305
332	16.600	54.461	96.200	96.230	2.252	4.780	2.340
333	16.650	54.625	108.200	108.222	2.912	3.540	2.691
334	16.700	54.789	143.130	143.926	3.156	127.430	2.193
335	16.750	54.953	184.580	184.618	3.020	6.030	1.636
336	16.800	55.117	215.860	215.940	2.556	12.870	1.184
337	16.850	55.281	181.510	181.581	2.558	11.300	1.409
338	16.900	55.446	134.350	134.409	2.488	9.410	1.851
339	16.950	55.610	108.280	108.336	2.125	8.960	1.961
340	17.000	55.774	80.750	80.806	2.292	8.950	2.836
341	17.050	55.938	66.780	66.830	2.033	8.070	3.042
342	17.100	56.102	104.150	104.237	3.159	13.870	3.031
343	17.150	56.266	123.710	123.824	3.787	18.210	3.058
344	17.200	56.430	111.090	111.342	4.053	40.350	3.640
345	17.250	56.594	165.510	165.736	4.021	36.220	2.426
346	17.300	56.758	97.230	97.789	3.871	89.610	3.959
347	17.350	56.922	92.150	92.625	3.103	76.060	3.350
348	17.400	57.086	88.240	88.333	2.364	14.890	2.676
349	17.450	57.250	77.310	77.380	1.747	11.280	2.258

Layer	Depth	Depth	qc	qt	fs	u	Rf
	m	ft	tsf	tsf	tsf	ft	%
350	17.500	57.414	98.870	98.960	1.114	14.390	1.126
351	17.550	57.578	169.870	170.004	0.000	21.530	0.000
352	17.600	57.742	225.520	225.594	0.000	11.830	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221497
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-4R
Cone ID:	410:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-06-2014
CPT Time:	11:04
CPT File:	13-53075_GP1C-4R.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722082.534
Northing / Lat:	4294241.655
Elevation:	148.022
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.100	1.103	0.001	0.410	0.091	26.300
2	0.100	0.328	1.820	1.819	0.008	-0.210	0.440	30.500
3	0.150	0.492	1.130	1.133	0.002	0.420	0.177	35.200
4	0.200	0.656	1.350	1.418	0.001	10.850	0.071	43.500
5	0.250	0.820	3.670	3.749	0.002	12.630	0.053	35.600
6	0.300	0.984	1.350	1.358	0.002	1.300	0.147	53.900
7	0.350	1.148	2.600	2.598	0.003	-0.260	0.115	71.400
8	0.400	1.312	2.520	2.567	0.172	7.480	6.701	84.300
9	0.450	1.476	4.450	4.482	0.273	5.190	6.090	89.100
10	0.500	1.640	8.990	8.993	0.211	0.460	2.346	89.400
11	0.550	1.804	7.870	7.867	0.181	-0.500	2.301	90.700
12	0.600	1.968	8.300	8.308	0.072	1.350	0.867	73.000
13	0.650	2.133	3.270	3.269	0.063	-0.240	1.927	77.500
14	0.700	2.297	4.590	4.594	0.091	0.580	1.981	73.300
15	0.750	2.461	1.510	1.514	0.090	0.640	5.945	65.700
16	0.800	2.625	3.940	3.973	0.016	5.360	0.403	60.000
17	0.850	2.789	2.430	2.431	0.015	0.240	0.617	60.100
18	0.900	2.953	2.880	2.884	0.045	0.680	1.560	76.300
19	0.950	3.117	9.250	9.315	0.132	10.350	1.417	86.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	8.260	8.287	0.329	4.330	3.970	86.500
21	1.050	3.445	10.900	11.012	0.452	17.900	4.105	90.700
22	1.100	3.609	12.120	12.208	0.508	14.060	4.161	105.100
23	1.150	3.773	12.050	12.153	0.497	16.430	4.090	97.600
24	1.200	3.937	12.710	12.792	0.409	13.110	3.197	99.200
25	1.250	4.101	8.290	8.313	0.377	3.650	4.535	84.500
26	1.300	4.265	9.500	9.607	0.295	17.110	3.071	105.100
27	1.350	4.429	15.630	15.951	0.309	51.440	1.937	93.100
28	1.400	4.593	31.730	32.022	0.446	46.750	1.393	88.500
29	1.450	4.757	45.500	45.900	0.678	64.050	1.477	96.500
30	1.500	4.921	46.310	46.572	0.543	41.890	1.166	97.600
31	1.550	5.085	68.670	68.819	0.719	23.830	1.045	72.700
32	1.600	5.249	59.210	59.503	0.965	46.950	1.622	87.000
33	1.650	5.413	27.350	27.462	0.971	17.970	3.536	84.400
34	1.700	5.577	24.450	24.642	0.769	30.710	3.121	80.800
35	1.750	5.741	52.270	52.313	0.804	6.880	1.537	85.000
36	1.800	5.905	83.960	84.041	0.841	12.950	1.001	84.600
37	1.850	6.069	88.390	88.416	1.081	4.240	1.223	82.500
38	1.900	6.234	93.350	93.346	1.057	-0.620	1.132	82.600
39	1.950	6.398	112.170	112.187	1.123	2.730	1.001	72.600
40	2.000	6.562	121.800	121.804	1.105	0.650	0.907	87.400
41	2.050	6.726	117.660	117.663	1.206	0.410	1.025	77.900
42	2.100	6.890	113.010	113.006	1.263	-0.590	1.118	73.300
43	2.150	7.054	96.770	96.769	1.299	-0.090	1.342	65.600
44	2.200	7.218	82.680	82.675	1.073	-0.760	1.298	62.300
45	2.250	7.382	61.440	61.438	1.089	-0.400	1.773	40.100
46	2.300	7.546	40.790	40.784	0.977	-0.970	2.396	32.100
47	2.350	7.710	33.440	33.454	0.742	2.210	2.218	23.100
48	2.400	7.874	45.810	45.883	0.797	11.760	1.737	24.500
49	2.450	8.038	37.480	37.536	0.843	8.930	2.246	20.200
50	2.500	8.202	21.840	21.864	0.697	3.810	3.188	21.400
51	2.550	8.366	31.780	31.783	0.603	0.520	1.897	20.000
52	2.600	8.530	10.790	10.844	0.424	8.620	3.910	14.900
53	2.650	8.694	11.090	11.122	0.277	5.200	2.490	12.800
54	2.700	8.858	7.520	7.540	0.171	3.210	2.268	24.300
55	2.750	9.022	2.960	2.983	0.133	3.630	4.459	19.000
56	2.800	9.186	5.990	5.978	0.391	-1.910	6.541	20.500
57	2.850	9.350	36.510	36.588	0.660	12.500	1.804	23.100
58	2.900	9.514	33.460	33.822	0.916	57.960	2.708	22.400
59	2.950	9.678	20.950	21.004	0.958	8.600	4.561	20.600
60	3.000	9.842	21.910	22.168	0.801	41.370	3.613	22.300
61	3.050	10.006	21.570	21.783	0.687	34.040	3.154	30.100
62	3.100	10.170	25.300	25.373	0.611	11.620	2.408	28.400
63	3.150	10.335	19.770	19.840	0.575	11.280	2.898	25.800
64	3.200	10.499	24.270	24.365	0.506	15.270	2.077	23.600
65	3.250	10.663	23.180	23.179	0.457	-0.120	1.972	23.100
66	3.300	10.827	16.840	16.926	0.518	13.800	3.060	20.400
67	3.350	10.991	29.120	29.106	0.487	-2.230	1.673	30.600
68	3.400	11.155	30.260	30.226	0.541	-5.410	1.790	21.700
69	3.450	11.319	29.380	29.366	0.531	-2.300	1.808	24.000
70	3.500	11.483	27.890	27.857	0.540	-5.350	1.938	25.700
71	3.550	11.647	29.560	29.532	0.434	-4.480	1.470	25.800
72	3.600	11.811	28.910	28.875	0.328	-5.530	1.136	20.500
73	3.650	11.975	25.750	25.717	0.372	-5.230	1.446	28.200
74	3.700	12.139	26.280	26.299	0.576	2.990	2.190	28.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	25.100	25.116	0.609	2.490	2.425	37.900
76	3.800	12.467	15.080	15.149	0.549	10.980	3.624	49.100
77	3.850	12.631	10.460	10.682	0.366	35.530	3.426	50.200
78	3.900	12.795	11.280	11.566	0.348	45.760	3.009	45.900
79	3.950	12.959	19.390	19.712	0.657	51.570	3.333	46.300
80	4.000	13.123	30.550	30.965	0.962	66.420	3.107	31.000
81	4.050	13.287	28.850	29.008	0.986	25.350	3.399	39.800
82	4.100	13.451	32.970	32.995	0.929	4.020	2.816	38.700
83	4.150	13.615	69.870	69.907	1.280	5.990	1.831	47.300
84	4.200	13.779	54.200	54.233	1.157	5.350	2.133	52.400
85	4.250	13.943	25.250	25.290	1.165	6.460	4.607	40.600
86	4.300	14.107	37.180	37.235	0.942	8.860	2.530	53.200
87	4.350	14.271	40.210	40.236	0.716	4.140	1.780	71.900
88	4.400	14.436	19.210	19.340	0.987	20.900	5.103	80.100
89	4.450	14.600	34.040	34.158	0.679	18.940	1.988	73.000
90	4.500	14.764	24.770	24.870	0.683	16.020	2.746	89.500
91	4.550	14.928	25.590	25.698	0.940	17.280	3.658	77.500
92	4.600	15.092	44.820	45.105	0.975	45.700	2.162	83.000
93	4.650	15.256	40.700	40.880	0.985	28.840	2.409	73.500
94	4.700	15.420	57.300	57.486	1.458	29.740	2.536	70.600
95	4.750	15.584	54.290	54.305	1.483	2.380	2.731	69.700
96	4.800	15.748	36.660	36.683	1.363	3.750	3.716	91.600
97	4.850	15.912	36.670	36.723	1.268	8.560	3.453	75.500
98	4.900	16.076	32.550	32.584	1.280	5.510	3.928	88.200
99	4.950	16.240	63.730	63.819	1.317	14.210	2.064	77.400
100	5.000	16.404	48.960	49.000	1.991	6.390	4.063	60.900
101	5.050	16.568	46.330	46.352	2.286	3.510	4.932	56.800
102	5.100	16.732	83.490	83.499	1.714	1.420	2.053	37.300
103	5.150	16.896	61.260	61.250	2.124	-1.650	3.468	27.800
104	5.200	17.060	94.240	94.258	2.157	2.930	2.288	29.700
105	5.250	17.224	73.210	73.241	2.151	4.980	2.937	33.600
106	5.300	17.388	58.870	59.001	1.832	21.030	3.105	34.500
107	5.350	17.552	28.210	28.418	1.384	33.370	4.870	38.000
108	5.400	17.716	35.000	35.135	1.010	21.690	2.875	38.300
109	5.450	17.880	36.220	36.316	1.164	15.340	3.205	37.700
110	5.500	18.044	58.250	58.332	1.093	13.120	1.874	69.500
111	5.550	18.208	46.640	46.680	1.051	6.410	2.251	55.600
112	5.600	18.372	35.070	35.072	0.714	0.280	2.036	73.300
113	5.650	18.537	28.810	28.962	0.694	24.270	2.396	73.800
114	5.700	18.701	21.230	21.626	0.708	63.510	3.274	64.700
115	5.750	18.865	30.640	30.922	0.791	45.170	2.558	82.300
116	5.800	19.029	29.890	30.151	0.810	41.800	2.686	77.700
117	5.850	19.193	28.780	29.153	1.068	59.810	3.663	67.800
118	5.900	19.357	60.250	60.694	0.767	71.060	1.264	47.100
119	5.950	19.521	141.900	141.927	2.760	4.320	1.945	34.300
120	6.000	19.685	165.820	165.843	3.564	3.720	2.149	32.000
121	6.050	19.849	106.110	106.074	2.404	-5.800	2.266	26.700
122	6.100	20.013	16.980	16.985	1.542	0.860	9.078	30.400
123	6.150	20.177	42.840	42.935	0.927	15.160	2.159	23.200
124	6.200	20.341	71.210	71.303	0.882	14.910	1.237	24.700
125	6.250	20.505	74.230	74.293	0.811	10.160	1.092	20.900
126	6.300	20.669	74.600	74.698	0.722	15.760	0.967	20.900
127	6.350	20.833	119.830	119.877	0.640	7.580	0.534	29.400
128	6.400	20.997	167.040	167.097	0.473	9.080	0.283	42.000
129	6.450	21.161	189.620	189.637	0.410	2.780	0.216	41.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	181.470	181.510	0.903	6.420	0.497	54.900
131	6.550	21.489	144.580	144.599	1.554	2.990	1.075	76.400
132	6.600	21.653	97.860	98.013	1.772	24.520	1.808	84.800
133	6.650	21.817	78.440	78.573	1.697	21.270	2.160	104.000
134	6.700	21.981	74.100	74.223	1.476	19.720	1.989	93.800
135	6.750	22.145	64.280	64.348	1.419	10.950	2.205	103.500
136	6.800	22.309	56.170	56.223	1.497	8.450	2.663	97.600
137	6.850	22.473	44.850	44.895	1.460	7.170	3.252	112.200
138	6.900	22.638	41.270	41.323	1.408	8.560	3.407	98.500
139	6.950	22.802	36.860	36.921	1.300	9.840	3.521	98.400
140	7.000	22.966	29.770	29.836	1.036	10.590	3.472	98.500
141	7.050	23.130	26.620	26.700	1.010	12.880	3.783	95.500
142	7.100	23.294	25.580	25.658	0.727	12.560	2.833	92.400
143	7.150	23.458	54.140	54.261	0.639	19.390	1.178	85.400
144	7.200	23.622	59.710	59.788	0.723	12.570	1.209	82.900
145	7.250	23.786	62.310	62.373	0.668	10.130	1.071	79.300
146	7.300	23.950	62.570	62.617	0.417	7.560	0.666	85.500
147	7.350	24.114	25.710	25.749	0.283	6.290	1.099	92.600
148	7.400	24.278	23.390	23.412	0.272	3.520	1.162	94.400
149	7.450	24.442	15.480	15.501	0.304	3.400	1.961	89.300
150	7.500	24.606	16.190	16.229	0.298	6.300	1.836	83.900
151	7.550	24.770	20.790	20.868	0.276	12.440	1.323	93.700
152	7.600	24.934	18.480	18.571	0.450	14.570	2.423	74.800
153	7.650	25.098	20.590	20.718	0.707	20.430	3.413	88.800
154	7.700	25.262	27.530	27.688	0.937	25.270	3.384	95.600
155	7.750	25.426	26.000	26.070	1.004	11.160	3.851	73.800
156	7.800	25.590	25.080	25.156	0.996	12.250	3.959	74.100
157	7.850	25.754	33.990	34.053	0.842	10.020	2.473	70.800
158	7.900	25.918	58.220	58.290	1.745	11.290	2.994	60.200
159	7.950	26.082	53.540	53.576	2.025	5.710	3.780	44.500
160	8.000	26.246	111.510	111.462	1.888	-7.660	1.694	35.400
161	8.050	26.410	87.240	87.181	1.980	-9.490	2.271	33.800
162	8.100	26.574	77.490	77.528	1.388	6.130	1.790	33.000
163	8.150	26.739	130.600	130.619	2.474	3.100	1.894	29.500
164	8.200	26.903	133.160	133.180	3.493	3.170	2.623	19.800
165	8.250	27.067	84.950	84.951	3.219	0.100	3.789	24.200
166	8.300	27.231	36.900	37.060	2.140	25.670	5.774	31.200
167	8.350	27.395	19.670	19.773	1.059	16.530	5.356	23.000
168	8.400	27.559	26.030	26.181	0.486	24.190	1.856	19.100
169	8.450	27.723	26.530	26.693	0.420	26.150	1.573	19.300
170	8.500	27.887	28.000	28.122	0.442	19.610	1.572	25.200
171	8.550	28.051	26.380	26.412	0.403	5.070	1.526	23.800
172	8.600	28.215	50.560	50.590	0.627	4.790	1.239	27.200
173	8.650	28.379	65.340	65.389	1.088	7.900	1.664	35.100
174	8.700	28.543	41.220	41.258	1.288	6.090	3.122	34.900
175	8.750	28.707	21.380	21.490	1.135	17.550	5.282	59.600
176	8.800	28.871	19.390	19.917	1.006	84.380	5.051	65.500
177	8.850	29.035	27.680	27.822	0.985	22.730	3.540	58.500
178	8.900	29.199	63.000	63.084	1.451	13.520	2.300	57.700
179	8.950	29.363	56.450	56.515	1.694	10.430	2.997	56.600
180	9.000	29.527	46.220	46.314	1.688	14.990	3.645	67.800
181	9.050	29.691	41.540	41.623	1.270	13.330	3.051	83.900
182	9.100	29.855	35.590	35.789	1.219	31.820	3.406	81.700
183	9.150	30.019	35.010	35.334	1.233	51.960	3.490	75.000
184	9.200	30.183	30.840	31.148	1.261	49.320	4.048	60.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	24.030	24.224	1.010	31.080	4.169	53.000
186	9.300	30.511	30.840	30.822	0.975	-2.840	3.163	50.200
187	9.350	30.675	42.850	43.065	1.299	34.390	3.016	43.900
188	9.400	30.840	81.650	81.804	2.074	24.610	2.535	43.200
189	9.450	31.004	77.790	77.899	3.022	17.500	3.879	40.700
190	9.500	31.168	69.170	69.335	3.159	26.420	4.556	58.200
191	9.550	31.332	54.370	54.491	2.636	19.400	4.837	55.500
192	9.600	31.496	56.180	56.413	1.788	37.280	3.169	74.000
193	9.650	31.660	50.250	50.393	1.408	22.950	2.794	79.800
194	9.700	31.824	41.510	41.677	1.303	26.780	3.126	76.100
195	9.750	31.988	27.620	27.761	1.123	22.530	4.045	70.900
196	9.800	32.152	22.800	22.994	0.907	31.140	3.944	64.500
197	9.850	32.316	20.000	20.199	0.819	31.880	4.055	75.600
198	9.900	32.480	24.000	24.173	0.770	27.680	3.185	58.500
199	9.950	32.644	58.500	58.593	1.363	14.920	2.326	62.200
200	10.000	32.808	88.850	88.895	1.588	7.200	1.786	57.400
201	10.050	32.972	35.240	35.260	1.848	3.130	5.241	46.600
202	10.100	33.136	35.610	35.656	1.282	7.440	3.595	60.800
203	10.150	33.300	26.160	26.193	0.734	5.300	2.802	52.100
204	10.200	33.464	10.470	10.528	0.667	9.230	6.336	38.700
205	10.250	33.628	34.970	35.004	0.414	5.440	1.183	38.800
206	10.300	33.792	34.620	34.677	0.480	9.130	1.384	52.100
207	10.350	33.956	21.070	21.137	0.380	10.770	1.798	53.300
208	10.400	34.120	26.710	26.773	0.723	10.100	2.700	48.700
209	10.450	34.284	48.260	48.305	0.758	7.160	1.569	59.300
210	10.500	34.448	27.820	27.937	1.012	18.730	3.622	62.600
211	10.550	34.612	60.660	60.748	1.016	14.130	1.672	58.000
212	10.600	34.776	85.360	85.405	1.344	7.200	1.574	51.300
213	10.650	34.941	64.150	64.157	1.864	1.200	2.905	60.100
214	10.700	35.105	55.590	55.625	1.972	5.640	3.545	44.400
215	10.750	35.269	48.000	48.040	1.624	6.480	3.380	31.200
216	10.800	35.433	54.580	54.692	1.585	17.930	2.898	30.800
217	10.850	35.597	57.050	57.128	1.567	12.520	2.743	23.500
218	10.900	35.761	57.530	57.607	1.747	12.260	3.033	26.700
219	10.950	35.925	51.650	51.757	1.539	17.120	2.974	36.000
220	11.000	36.089	38.150	38.278	1.599	20.540	4.177	38.100
221	11.050	36.253	57.020	57.100	1.603	12.790	2.807	32.500
222	11.100	36.417	46.100	46.151	1.269	8.200	2.750	39.800
223	11.150	36.581	61.670	61.700	1.101	4.800	1.784	52.400
224	11.200	36.745	69.880	69.892	0.904	1.920	1.293	60.000
225	11.250	36.909	72.620	72.645	1.760	3.930	2.423	59.700
226	11.300	37.073	86.920	86.935	2.574	2.460	2.961	68.600
227	11.350	37.237	81.400	81.467	2.869	10.810	3.522	65.900
228	11.400	37.401	78.050	78.141	3.168	14.520	4.054	64.200
229	11.450	37.565	69.540	69.609	2.226	11.080	3.198	61.700
230	11.500	37.729	54.120	54.134	1.376	2.200	2.542	50.700
231	11.550	37.893	60.050	60.057	0.719	1.060	1.197	44.900
232	11.600	38.057	47.410	47.422	0.812	1.870	1.712	41.300
233	11.650	38.221	55.900	55.905	1.329	0.740	2.377	30.700
234	11.700	38.385	35.930	35.968	1.686	6.070	4.688	34.800
235	11.750	38.549	46.300	46.368	1.584	10.920	3.416	33.400
236	11.800	38.713	37.000	37.225	1.304	36.000	3.503	20.200
237	11.850	38.877	31.120	31.313	1.507	30.990	4.813	25.200
238	11.900	39.042	38.670	38.823	1.578	24.490	4.065	23.100
239	11.950	39.206	62.100	62.181	1.737	12.980	2.793	22.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	57.190	57.278	1.590	14.110	2.776	20.600
241	12.050	39.534	46.360	46.424	2.274	10.180	4.898	27.800
242	12.100	39.698	113.780	113.819	2.130	6.200	1.871	28.800
243	12.150	39.862	95.870	95.954	1.975	13.470	2.058	21.800
244	12.200	40.026	70.250	70.331	0.995	12.940	1.415	30.400
245	12.250	40.190	117.100	117.072	2.333	-4.470	1.993	34.700
246	12.300	40.354	139.480	139.570	2.706	14.380	1.939	27.500
247	12.350	40.518	71.420	71.402	3.070	-2.920	4.300	42.900
248	12.400	40.682	53.210	53.402	2.766	30.740	5.180	38.300
249	12.450	40.846	41.760	41.936	1.541	28.250	3.675	46.900
250	12.500	41.010	30.580	30.644	1.162	10.190	3.792	58.100
251	12.550	41.174	31.090	31.157	1.037	10.700	3.328	54.200
252	12.600	41.338	31.850	31.944	1.056	15.020	3.306	55.200
253	12.650	41.502	32.680	32.783	1.113	16.560	3.395	70.100
254	12.700	41.666	48.840	48.811	1.158	-4.640	2.372	60.600
255	12.750	41.830	40.290	40.288	1.567	-0.300	3.889	69.100
256	12.800	41.994	36.050	36.055	0.999	0.760	2.771	65.400
257	12.850	42.158	41.860	41.866	1.215	0.930	2.902	62.000
258	12.900	42.322	42.060	42.044	1.121	-2.570	2.666	71.800
259	12.950	42.486	29.450	29.432	1.356	-2.890	4.607	75.200
260	13.000	42.650	38.170	38.160	1.712	-1.540	4.486	90.300
261	13.050	42.814	42.600	42.600	2.082	0.040	4.887	95.400
262	13.100	42.978	69.390	69.401	2.012	1.840	2.899	129.500
263	13.150	43.143	64.670	64.722	2.771	8.250	4.281	154.100
264	13.200	43.307	111.400	111.446	3.072	7.400	2.756	200.000
265	13.250	43.471	51.920	51.995	2.857	12.090	5.495	263.700
266	13.300	43.635	47.920	47.986	2.606	10.640	5.431	354.500
267	13.350	43.799	35.350	35.411	1.763	9.790	4.979	377.300
268	13.400	43.963	46.250	46.223	1.280	-4.380	2.769	286.800
269	13.450	44.127	69.250	69.232	0.708	-2.840	1.023	172.500
270	13.500	44.291	75.100	75.077	1.527	-3.750	2.034	132.000
271	13.550	44.455	75.450	75.420	1.924	-4.740	2.551	99.600
272	13.600	44.619	42.430	42.390	1.807	-6.460	4.263	83.200
273	13.650	44.783	26.910	26.887	1.606	-3.620	5.973	81.400
274	13.700	44.947	44.320	44.315	1.611	-0.740	3.635	67.200
275	13.750	45.111	41.510	41.504	1.095	-0.970	2.638	49.000
276	13.800	45.275	54.150	54.149	0.963	-0.160	1.778	56.700
277	13.850	45.439	51.000	50.996	0.489	-0.570	0.959	44.800
278	13.900	45.603	49.910	49.905	0.305	-0.810	0.611	41.100
279	13.950	45.767	43.940	43.937	0.280	-0.490	0.637	55.900
280	14.000	45.931	39.610	39.610	0.297	0.030	0.750	38.400
281	14.050	46.095	28.140	28.160	0.422	3.170	1.499	40.400
282	14.100	46.259	32.130	32.155	0.553	4.070	1.720	32.300
283	14.150	46.423	44.650	44.674	0.890	3.870	1.992	37.400
284	14.200	46.587	44.470	44.494	1.085	3.830	2.439	26.700
285	14.250	46.751	32.720	32.754	1.028	5.370	3.139	33.300
286	14.300	46.915	30.830	30.881	1.033	8.210	3.345	26.600
287	14.350	47.079	39.090	39.113	0.962	3.620	2.460	39.300
288	14.400	47.244	28.510	28.534	0.913	3.880	3.200	23.400
289	14.450	47.408	24.210	24.233	0.893	3.750	3.685	35.200
290	14.500	47.572	16.800	16.824	0.709	3.920	4.214	31.800
291	14.550	47.736	18.020	18.063	0.534	6.850	2.956	35.200
292	14.600	47.900	37.200	37.225	0.642	4.040	1.725	27.700
293	14.650	48.064	56.770	56.795	1.123	3.980	1.977	36.100
294	14.700	48.228	59.820	59.852	1.337	5.130	2.234	40.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	68.960	69.012	1.638	8.280	2.374	48.800
296	14.800	48.556	70.490	70.531	1.778	6.610	2.521	47.100
297	14.850	48.720	58.850	58.876	1.945	4.130	3.304	50.900
298	14.900	48.884	48.770	48.786	1.812	2.550	3.714	36.000
299	14.950	49.048	39.070	39.077	1.391	1.060	3.560	36.400
300	15.000	49.212	43.330	43.333	1.399	0.430	3.229	25.600
301	15.050	49.376	59.310	59.312	1.115	0.380	1.880	40.200
302	15.100	49.540	17.710	17.657	1.171	-8.480	6.632	37.700
303	15.150	49.704	23.410	23.466	0.899	8.900	3.831	56.300
304	15.200	49.868	19.660	19.700	0.698	6.380	3.543	40.900
305	15.250	50.032	24.720	24.765	0.638	7.250	2.576	45.800
306	15.300	50.196	37.250	37.296	0.989	7.420	2.652	47.800
307	15.350	50.360	25.510	25.567	0.831	9.100	3.250	52.300
308	15.400	50.524	20.110	20.254	1.001	23.100	4.942	38.000
309	15.450	50.688	31.070	31.307	1.121	38.030	3.581	47.400
310	15.500	50.852	40.580	40.599	1.341	3.010	3.303	35.700
311	15.550	51.016	48.090	48.066	1.660	-3.870	3.454	27.000
312	15.600	51.180	43.700	43.711	1.876	1.770	4.292	23.900
313	15.650	51.345	41.560	41.585	1.873	3.990	4.504	18.900
314	15.700	51.509	63.350	63.370	1.427	3.170	2.252	16.300
315	15.750	51.673	28.620	28.627	1.583	1.110	5.530	16.800
316	15.800	51.837	44.140	44.114	1.161	-4.190	2.632	0.000
317	15.850	52.001	50.170	50.176	1.081	0.930	2.154	0.000
318	15.900	52.165	59.220	59.216	1.440	-0.630	2.432	0.000
319	15.950	52.329	45.150	45.165	1.452	2.340	3.215	0.000
320	16.000	52.493	40.270	40.312	1.490	6.680	3.696	0.000
321	16.050	52.657	29.610	29.672	1.143	9.970	3.852	0.000
322	16.100	52.821	25.830	25.938	1.525	17.370	5.879	0.000
323	16.150	52.985	62.220	62.382	2.275	26.020	3.647	0.000
324	16.200	53.149	68.270	68.436	2.860	26.650	4.179	0.000
325	16.250	53.313	97.950	98.041	3.033	14.540	3.094	0.000
326	16.300	53.477	124.650	124.724	2.902	11.880	2.327	0.000
327	16.350	53.641	71.450	71.374	2.801	-12.130	3.924	0.000
328	16.400	53.805	37.530	37.522	2.175	-1.260	5.797	0.000
329	16.450	53.969	57.980	58.018	1.888	6.060	3.254	0.000
330	16.500	54.133	88.440	88.490	0.000	8.030	0.000	0.000
331	16.550	54.297	209.900	209.971	0.000	11.430	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221499
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-5
Cone ID:	406:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-29-2014
CPT Time:	13:49
CPT File:	13-53075_GP1C-5.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722185.684
Northing / Lat:	4294290.673
Elevation:	145.884
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	69.270	69.359	0.566	14.310	0.816	0.000
2	0.100	0.328	336.010	335.995	1.473	-2.360	0.438	0.000
3	0.150	0.492	430.540	430.993	0.000	72.640	0.000	0.000
4	0.200	0.656	598.560	598.715	0.000	24.780	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221501
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-5A
Cone ID:	406:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-29-2014
CPT Time:	14:09
CPT File:	13-53075_GP1C-5A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722185.782
Northing / Lat:	4294290.791
Elevation:	145.884
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.990	0.994	0.019	0.700	1.911	32.800
2	0.100	0.328	2.490	2.486	0.001	-0.670	0.040	32.000
3	0.150	0.492	2.200	2.204	0.006	0.640	0.272	36.100
4	0.200	0.656	2.500	2.504	0.200	0.600	7.988	38.400
5	0.250	0.820	3.200	3.203	0.346	0.530	10.801	41.600
6	0.300	0.984	6.950	6.953	0.452	0.480	6.501	40.100
7	0.350	1.148	11.840	11.844	0.379	0.680	3.200	46.300
8	0.400	1.312	13.930	13.934	0.795	0.720	5.705	46.000
9	0.450	1.476	11.320	11.326	0.206	0.950	1.819	32.500
10	0.500	1.640	11.620	11.622	0.273	0.270	2.349	38.200
11	0.550	1.804	11.560	11.572	0.135	1.920	1.167	38.300
12	0.600	1.968	21.730	21.781	0.100	8.120	0.459	53.400
13	0.650	2.133	5.990	6.002	0.287	1.920	4.782	52.800
14	0.700	2.297	7.000	7.005	0.068	0.860	0.971	63.200
15	0.750	2.461	6.120	6.132	0.127	1.950	2.071	74.500
16	0.800	2.625	8.940	8.952	0.282	1.880	3.150	87.000
17	0.850	2.789	8.960	8.993	0.394	5.350	4.381	93.500
18	0.900	2.953	12.100	12.247	0.363	23.470	2.964	95.000
19	0.950	3.117	10.340	10.656	0.272	50.620	2.553	96.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	7.000	7.551	0.155	88.300	2.053	101.500
21	1.050	3.445	6.810	7.450	0.102	102.500	1.369	94.900
22	1.100	3.609	7.180	7.770	0.170	94.560	2.188	98.600
23	1.150	3.773	8.770	9.622	0.147	136.500	1.528	93.200
24	1.200	3.937	13.620	14.746	0.418	180.300	2.835	98.000
25	1.250	4.101	43.950	44.813	0.975	138.290	2.176	90.000
26	1.300	4.265	96.360	96.685	1.495	52.040	1.546	82.900
27	1.350	4.429	70.580	70.695	1.810	18.420	2.560	97.400
28	1.400	4.593	66.920	67.043	1.393	19.740	2.078	80.000
29	1.450	4.757	57.970	58.014	0.923	7.030	1.591	85.800
30	1.500	4.921	42.140	42.154	0.872	2.320	2.069	82.500
31	1.550	5.085	28.670	28.644	0.865	-4.190	3.020	79.100
32	1.600	5.249	23.100	23.081	0.778	-2.990	3.371	96.800
33	1.650	5.413	21.240	21.222	0.646	-2.900	3.044	89.000
34	1.700	5.577	18.110	18.074	0.571	-5.720	3.159	77.900
35	1.750	5.741	14.750	14.675	0.363	-12.050	2.474	68.300
36	1.800	5.905	15.640	15.552	0.411	-14.070	2.643	45.400
37	1.850	6.069	28.020	28.035	0.463	2.360	1.652	45.800
38	1.900	6.234	12.760	12.760	0.387	0.000	3.033	42.400
39	1.950	6.398	7.540	7.547	0.430	1.080	5.698	49.600
40	2.000	6.562	15.220	15.216	0.365	-0.690	2.399	53.000
41	2.050	6.726	17.480	17.498	0.482	2.910	2.755	59.000
42	2.100	6.890	10.730	10.815	0.463	13.650	4.281	65.300
43	2.150	7.054	18.800	18.810	0.555	1.620	2.951	72.600
44	2.200	7.218	24.810	24.808	0.547	-0.290	2.205	76.200
45	2.250	7.382	22.900	22.842	0.528	-9.310	2.312	59.600
46	2.300	7.546	19.050	18.975	0.551	-11.970	2.904	44.200
47	2.350	7.710	20.730	20.759	0.564	4.660	2.717	43.400
48	2.400	7.874	32.160	32.160	0.380	0.080	1.182	51.600
49	2.450	8.038	16.090	16.114	0.660	3.850	4.096	52.000
50	2.500	8.202	39.730	39.750	0.723	3.150	1.819	41.700
51	2.550	8.366	36.240	36.257	0.993	2.690	2.739	54.000
52	2.600	8.530	12.940	12.970	0.728	4.880	5.613	53.300
53	2.650	8.694	37.680	37.781	2.311	16.180	6.117	58.800
54	2.700	8.858	117.620	117.603	1.827	-2.800	1.554	55.600
55	2.750	9.022	79.050	79.057	2.088	1.190	2.641	54.500
56	2.800	9.186	43.020	43.044	1.364	3.790	3.169	53.100
57	2.850	9.350	15.640	15.709	0.944	11.120	6.009	49.300
58	2.900	9.514	20.070	20.332	0.698	42.020	3.433	59.000
59	2.950	9.678	26.930	26.971	0.655	6.540	2.429	80.300
60	3.000	9.842	26.200	26.283	0.788	13.330	2.998	76.700
61	3.050	10.006	27.380	27.477	0.842	15.460	3.064	95.500
62	3.100	10.170	38.540	38.668	0.953	20.570	2.465	86.500
63	3.150	10.335	41.700	41.738	1.111	6.080	2.662	92.000
64	3.200	10.499	34.320	34.316	1.222	-0.620	3.561	64.500
65	3.250	10.663	43.330	43.422	1.101	14.670	2.536	73.200
66	3.300	10.827	38.800	38.736	0.905	-10.180	2.336	69.900
67	3.350	10.991	30.020	30.033	0.887	2.100	2.953	53.900
68	3.400	11.155	30.300	30.335	0.767	5.530	2.528	38.300
69	3.450	11.319	40.500	40.588	0.938	14.090	2.311	28.200
70	3.500	11.483	46.640	46.716	1.204	12.200	2.577	32.700
71	3.550	11.647	42.330	42.326	1.170	-0.710	2.764	27.400
72	3.600	11.811	25.240	25.236	0.901	-0.590	3.570	28.800
73	3.650	11.975	29.640	29.658	0.606	2.820	2.043	18.100
74	3.700	12.139	23.760	23.797	0.380	5.890	1.597	22.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	35.830	35.821	0.397	-1.500	1.108	22.900
76	3.800	12.467	9.320	9.353	0.398	5.360	4.255	28.200
77	3.850	12.631	11.740	11.752	0.433	1.980	3.684	31.800
78	3.900	12.795	30.920	30.984	0.821	10.250	2.650	36.500
79	3.950	12.959	29.050	29.093	0.863	6.830	2.966	52.100
80	4.000	13.123	25.170	25.502	0.898	53.260	3.521	49.700
81	4.050	13.287	20.460	20.491	0.598	5.010	2.918	66.600
82	4.100	13.451	13.200	13.360	0.579	25.580	4.334	76.500
83	4.150	13.615	12.760	12.883	0.466	19.680	3.617	100.100
84	4.200	13.779	11.350	11.525	0.434	28.030	3.766	95.100
85	4.250	13.943	10.970	11.067	0.386	15.520	3.488	94.800
86	4.300	14.107	11.880	12.044	0.417	26.330	3.462	89.300
87	4.350	14.271	12.270	12.353	0.427	13.310	3.457	98.800
88	4.400	14.436	12.050	12.118	0.483	10.890	3.986	107.000
89	4.450	14.600	13.390	13.550	0.436	25.590	3.218	92.000
90	4.500	14.764	22.500	22.676	0.566	28.230	2.496	92.800
91	4.550	14.928	41.230	41.279	0.734	7.880	1.778	96.100
92	4.600	15.092	40.740	40.815	0.831	12.060	2.036	108.600
93	4.650	15.256	47.150	47.359	1.007	33.420	2.126	95.500
94	4.700	15.420	48.970	49.016	0.930	7.420	1.897	86.200
95	4.750	15.584	37.080	37.065	0.737	-2.430	1.988	89.000
96	4.800	15.748	22.530	22.479	0.501	-8.240	2.229	86.300
97	4.850	15.912	14.470	14.418	0.307	-8.290	2.129	73.700
98	4.900	16.076	10.310	10.276	0.187	-5.480	1.820	69.200
99	4.950	16.240	5.820	5.830	0.154	1.540	2.642	54.600
100	5.000	16.404	4.800	4.814	0.192	2.190	3.989	45.800
101	5.050	16.568	8.270	8.307	0.169	5.930	2.034	43.300
102	5.100	16.732	15.190	15.219	0.230	4.660	1.511	45.900
103	5.150	16.896	9.070	9.087	0.256	2.690	2.817	43.600
104	5.200	17.060	9.790	9.794	0.280	0.610	2.859	40.500
105	5.250	17.224	5.370	5.413	0.282	6.850	5.210	52.200
106	5.300	17.388	13.780	13.954	0.339	27.940	2.429	62.000
107	5.350	17.552	12.080	12.124	0.513	7.030	4.231	59.500
108	5.400	17.716	38.900	38.869	0.510	-4.980	1.312	65.200
109	5.450	17.880	30.020	30.133	0.619	18.170	2.054	60.100
110	5.500	18.044	33.110	33.250	0.833	22.450	2.505	62.000
111	5.550	18.208	43.510	43.580	1.100	11.290	2.524	56.400
112	5.600	18.372	46.250	46.313	1.169	10.130	2.524	44.700
113	5.650	18.537	54.960	54.987	1.202	4.360	2.186	29.200
114	5.700	18.701	51.940	51.976	1.111	5.820	2.138	19.400
115	5.750	18.865	21.300	21.286	1.207	-2.170	5.670	19.000
116	5.800	19.029	22.810	22.927	0.910	18.680	3.969	15.900
117	5.850	19.193	42.790	42.828	0.928	6.010	2.167	16.400
118	5.900	19.357	46.510	46.588	1.347	12.570	2.891	15.600
119	5.950	19.521	83.260	83.283	1.767	3.620	2.122	12.000
120	6.000	19.685	85.340	85.359	1.928	2.980	2.259	11.600
121	6.050	19.849	57.070	57.143	1.959	11.620	3.428	16.500
122	6.100	20.013	27.980	27.995	1.146	2.410	4.094	19.300
123	6.150	20.177	25.170	25.222	0.796	8.250	3.156	14.900
124	6.200	20.341	30.060	30.065	0.758	0.770	2.521	14.800
125	6.250	20.505	26.670	26.749	0.945	12.690	3.533	16.200
126	6.300	20.669	39.830	39.851	1.069	3.320	2.683	18.600
127	6.350	20.833	31.350	31.313	0.890	-5.940	2.842	28.300
128	6.400	20.997	13.710	13.721	0.896	1.730	6.530	31.300
129	6.450	21.161	31.890	31.971	0.649	12.940	2.030	42.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	16.760	16.776	0.749	2.570	4.465	54.200
131	6.550	21.489	21.150	21.187	0.670	5.920	3.162	38.300
132	6.600	21.653	23.960	24.032	0.563	11.460	2.343	48.500
133	6.650	21.817	34.080	34.093	0.618	2.130	1.813	40.300
134	6.700	21.981	38.390	38.442	0.704	8.250	1.831	35.200
135	6.750	22.145	30.190	30.208	0.651	2.850	2.155	34.600
136	6.800	22.309	23.460	23.482	0.797	3.530	3.394	28.800
137	6.850	22.473	19.330	19.334	0.850	0.570	4.397	19.100
138	6.900	22.638	38.960	38.949	1.463	-1.800	3.756	22.300
139	6.950	22.802	65.290	65.293	1.542	0.530	2.362	12.900
140	7.000	22.966	49.160	49.161	1.322	0.110	2.689	16.600
141	7.050	23.130	107.340	107.376	1.123	5.710	1.046	13.200
142	7.100	23.294	98.120	98.159	1.200	6.290	1.223	14.300
143	7.150	23.458	86.170	86.171	0.976	0.160	1.133	14.400
144	7.200	23.622	48.230	48.253	1.328	3.620	2.752	11.500
145	7.250	23.786	25.330	25.342	0.951	1.970	3.753	15.000
146	7.300	23.950	34.880	34.973	0.947	14.840	2.708	10.100
147	7.350	24.114	23.050	23.035	0.689	-2.340	2.991	15.800
148	7.400	24.278	23.500	23.507	0.562	1.110	2.391	12.500
149	7.450	24.442	25.600	25.658	0.257	9.340	1.002	14.000
150	7.500	24.606	13.050	13.082	0.237	5.130	1.812	12.200
151	7.550	24.770	14.790	14.830	0.542	6.400	3.655	19.400
152	7.600	24.934	21.340	21.363	0.878	3.760	4.110	20.100
153	7.650	25.098	64.700	64.763	1.185	10.140	1.830	24.700
154	7.700	25.262	129.740	129.752	3.344	1.930	2.577	35.700
155	7.750	25.426	132.480	132.572	3.999	14.780	3.016	36.800
156	7.800	25.590	129.160	129.712	3.708	88.350	2.859	56.800
157	7.850	25.754	84.110	84.608	2.225	79.800	2.630	62.000
158	7.900	25.918	95.240	95.264	1.511	3.820	1.586	66.400
159	7.950	26.082	89.170	89.179	1.020	1.440	1.144	63.700
160	8.000	26.246	43.500	43.486	1.540	-2.240	3.541	63.800
161	8.050	26.410	22.370	22.377	1.247	1.170	5.573	48.800
162	8.100	26.574	70.200	70.236	1.411	5.700	2.009	45.700
163	8.150	26.739	55.940	55.972	1.480	5.170	2.644	50.300
164	8.200	26.903	54.030	54.141	1.771	17.720	3.271	58.100
165	8.250	27.067	48.400	48.408	1.511	1.230	3.121	77.200
166	8.300	27.231	42.880	42.889	1.229	1.520	2.866	70.200
167	8.350	27.395	39.610	39.625	1.063	2.420	2.683	66.100
168	8.400	27.559	42.950	43.028	1.144	12.480	2.659	79.800
169	8.450	27.723	63.260	63.323	2.084	10.140	3.291	69.500
170	8.500	27.887	70.950	71.013	1.848	10.100	2.602	77.400
171	8.550	28.051	113.040	113.100	1.486	9.590	1.314	72.900
172	8.600	28.215	86.250	86.232	1.393	-2.870	1.615	76.000
173	8.650	28.379	73.770	73.772	1.842	0.320	2.497	83.800
174	8.700	28.543	83.750	83.766	1.677	2.600	2.002	76.500
175	8.750	28.707	51.730	51.754	1.493	3.810	2.885	66.800
176	8.800	28.871	40.350	40.356	2.680	0.900	6.641	59.100
177	8.850	29.035	38.230	38.238	1.277	1.310	3.340	59.100
178	8.900	29.199	47.930	47.944	0.778	2.210	1.623	47.600
179	8.950	29.363	59.010	59.017	0.463	1.090	0.785	51.600
180	9.000	29.527	63.240	63.247	0.698	1.090	1.104	45.300
181	9.050	29.691	55.990	55.985	0.395	-0.730	0.706	46.700
182	9.100	29.855	55.670	55.669	0.617	-0.090	1.108	48.000
183	9.150	30.019	25.610	25.612	0.449	0.290	1.753	44.500
184	9.200	30.183	21.400	21.404	0.616	0.600	2.878	46.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	41.030	41.206	0.987	28.250	2.395	48.200
186	9.300	30.511	29.450	29.454	1.016	0.670	3.449	67.300
187	9.350	30.675	22.470	22.486	0.821	2.520	3.651	71.100
188	9.400	30.840	18.990	18.997	0.632	1.060	3.327	81.500
189	9.450	31.004	20.280	20.318	0.827	6.040	4.070	97.600
190	9.500	31.168	27.630	27.637	1.101	1.140	3.984	89.600
191	9.550	31.332	25.780	25.689	1.066	-14.650	4.150	76.100
192	9.600	31.496	28.580	28.477	1.060	-16.550	3.722	76.200
193	9.650	31.660	19.150	19.037	0.734	-18.130	3.856	47.600
194	9.700	31.824	15.190	15.077	0.398	-18.160	2.640	53.000
195	9.750	31.988	27.870	27.867	0.699	-0.480	2.508	48.300
196	9.800	32.152	20.210	20.233	0.677	3.650	3.346	51.700
197	9.850	32.316	20.280	20.297	0.787	2.720	3.877	47.900
198	9.900	32.480	19.820	19.818	0.584	-0.360	2.947	52.700
199	9.950	32.644	17.170	17.187	0.767	2.790	4.463	56.500
200	10.000	32.808	30.610	30.589	0.940	-3.310	3.073	54.900
201	10.050	32.972	22.340	22.347	1.106	1.080	4.949	49.400
202	10.100	33.136	18.940	18.930	1.034	-1.560	5.462	41.000
203	10.150	33.300	26.190	26.181	0.873	-1.430	3.334	35.300
204	10.200	33.464	36.460	36.450	1.148	-1.570	3.150	26.800
205	10.250	33.628	34.300	34.295	1.425	-0.850	4.155	31.500
206	10.300	33.792	42.410	42.418	1.557	1.300	3.671	16.300
207	10.350	33.956	24.110	24.130	1.398	3.130	5.794	20.000
208	10.400	34.120	29.230	29.246	1.270	2.590	4.342	15.800
209	10.450	34.284	28.290	28.312	0.911	3.480	3.218	23.400
210	10.500	34.448	32.860	32.901	0.790	6.510	2.401	17.000
211	10.550	34.612	56.630	56.641	0.656	1.750	1.158	20.800
212	10.600	34.776	49.280	49.316	0.891	5.770	1.807	23.700
213	10.650	34.941	28.970	28.990	1.155	3.150	3.984	27.000
214	10.700	35.105	25.500	25.523	0.985	3.680	3.859	21.700
215	10.750	35.269	23.740	23.756	0.716	2.620	3.014	29.900
216	10.800	35.433	23.990	23.994	0.735	0.640	3.063	42.800
217	10.850	35.597	33.130	33.158	0.701	4.410	2.114	35.800
218	10.900	35.761	29.410	29.407	0.700	-0.550	2.380	42.500
219	10.950	35.925	33.650	33.660	0.545	1.670	1.619	45.000
220	11.000	36.089	36.070	36.078	0.478	1.290	1.325	38.200
221	11.050	36.253	31.220	31.217	0.747	-0.440	2.393	29.100
222	11.100	36.417	29.690	29.694	1.167	0.620	3.930	31.700
223	11.150	36.581	19.350	19.359	0.930	1.520	4.804	24.700
224	11.200	36.745	46.200	46.212	0.641	2.000	1.387	23.700
225	11.250	36.909	50.910	50.941	0.540	4.890	1.060	26.300
226	11.300	37.073	20.290	20.279	0.857	-1.690	4.226	25.900
227	11.350	37.237	28.580	28.614	0.971	5.390	3.393	32.300
228	11.400	37.401	41.820	41.820	0.876	-0.040	2.095	35.800
229	11.450	37.565	37.900	37.925	0.998	3.970	2.632	24.700
230	11.500	37.729	35.200	35.207	0.986	1.140	2.801	22.000
231	11.550	37.893	41.110	41.134	1.333	3.780	3.241	23.900
232	11.600	38.057	23.030	23.062	1.203	5.160	5.216	27.200
233	11.650	38.221	31.510	31.550	0.957	6.390	3.033	38.600
234	11.700	38.385	23.650	23.703	0.787	8.450	3.320	46.200
235	11.750	38.549	24.390	24.408	0.515	2.950	2.110	43.700
236	11.800	38.713	40.510	40.537	0.494	4.330	1.219	41.100
237	11.850	38.877	43.680	43.708	0.319	4.480	0.730	35.000
238	11.900	39.042	47.640	47.664	0.490	3.910	1.028	31.300
239	11.950	39.206	54.190	54.206	0.639	2.550	1.179	23.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	49.770	49.837	0.479	10.660	0.961	24.400
241	12.050	39.534	76.420	76.500	1.042	12.830	1.362	24.800
242	12.100	39.698	93.360	93.573	0.974	34.040	1.041	21.300
243	12.150	39.862	17.050	17.066	1.196	2.630	7.008	15.800
244	12.200	40.026	43.030	43.077	1.241	7.510	2.881	19.600
245	12.250	40.190	40.240	40.300	1.645	9.590	4.082	22.600
246	12.300	40.354	22.050	22.120	1.457	11.220	6.587	32.200
247	12.350	40.518	26.290	26.364	1.074	11.920	4.074	40.200
248	12.400	40.682	30.000	30.052	0.773	8.250	2.572	46.100
249	12.450	40.846	11.160	11.220	0.635	9.630	5.659	58.700
250	12.500	41.010	14.550	14.578	0.737	4.470	5.056	58.800
251	12.550	41.174	23.260	23.390	1.045	20.750	4.468	65.300
252	12.600	41.338	27.300	27.286	1.213	-2.190	4.445	52.600
253	12.650	41.502	67.080	67.059	1.456	-3.390	2.171	53.600
254	12.700	41.666	61.070	61.097	1.744	4.300	2.854	34.100
255	12.750	41.830	58.990	59.021	2.335	5.020	3.956	29.400
256	12.800	41.994	61.130	61.163	2.566	5.320	4.195	28.400
257	12.850	42.158	91.320	91.356	2.588	5.750	2.833	16.400
258	12.900	42.322	89.100	89.331	1.846	37.080	2.066	18.400
259	12.950	42.486	69.530	69.660	1.126	20.750	1.616	20.200
260	13.000	42.650	58.450	58.465	1.281	2.340	2.191	17.800
261	13.050	42.814	41.930	42.002	1.041	11.580	2.478	22.000
262	13.100	42.978	18.200	18.378	1.149	28.440	6.252	20.600
263	13.150	43.143	29.990	30.360	1.571	59.230	5.175	23.500
264	13.200	43.307	91.680	91.918	3.304	38.050	3.595	26.400
265	13.250	43.471	72.800	72.774	4.227	-4.200	5.808	35.800
266	13.300	43.635	67.430	67.449	2.864	3.070	4.246	37.100
267	13.350	43.799	57.380	57.451	0.919	11.380	1.600	48.500
268	13.400	43.963	69.630	70.018	0.765	62.120	1.093	56.700
269	13.450	44.127	81.330	81.383	0.833	8.500	1.024	63.600
270	13.500	44.291	75.190	75.286	0.686	15.380	0.911	55.100
271	13.550	44.455	51.360	51.420	0.675	9.630	1.313	55.000
272	13.600	44.619	57.060	57.112	0.641	8.360	1.122	67.100
273	13.650	44.783	66.860	66.899	0.640	6.200	0.957	60.700
274	13.700	44.947	49.010	49.036	0.705	4.220	1.438	56.000
275	13.750	45.111	38.460	38.494	1.198	5.410	3.112	42.500
276	13.800	45.275	38.920	38.992	1.330	11.600	3.411	35.000
277	13.850	45.439	54.690	54.775	1.662	13.690	3.034	27.300
278	13.900	45.603	29.060	29.441	1.762	61.030	5.985	18.900
279	13.950	45.767	35.530	35.708	1.525	28.570	4.271	19.100
280	14.000	45.931	39.690	39.737	1.264	7.520	3.181	16.600
281	14.050	46.095	36.270	36.354	1.203	13.390	3.309	16.000
282	14.100	46.259	40.600	40.680	1.437	12.740	3.532	13.400
283	14.150	46.423	67.510	67.513	1.513	0.470	2.241	11.000
284	14.200	46.587	47.680	47.988	1.446	49.290	3.013	9.500
285	14.250	46.751	41.300	41.364	1.411	10.240	3.411	15.900
286	14.300	46.915	45.680	45.711	1.254	4.990	2.743	15.800
287	14.350	47.079	59.830	59.920	1.337	14.460	2.231	14.000
288	14.400	47.244	62.410	62.496	1.621	13.770	2.594	11.600
289	14.450	47.408	49.400	49.464	1.370	10.190	2.770	13.100
290	14.500	47.572	54.850	54.985	1.075	21.550	1.955	22.500
291	14.550	47.736	29.340	29.495	1.098	24.750	3.723	19.900
292	14.600	47.900	25.540	25.606	0.976	10.510	3.812	19.000
293	14.650	48.064	43.070	43.098	0.638	4.510	1.480	16.000
294	14.700	48.228	70.650	70.770	0.498	19.290	0.704	11.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	51.010	51.094	1.095	13.380	2.143	16.700
296	14.800	48.556	16.950	16.995	1.418	7.280	8.343	13.100
297	14.850	48.720	28.200	28.453	1.772	40.470	6.228	13.100
298	14.900	48.884	43.900	44.214	1.792	50.280	4.053	14.200
299	14.950	49.048	25.240	25.748	1.727	81.390	6.707	15.800
300	15.000	49.212	22.990	23.762	1.599	123.650	6.729	21.500
301	15.050	49.376	23.350	23.787	1.388	69.960	5.835	16.600
302	15.100	49.540	20.100	20.133	1.125	5.270	5.588	18.500
303	15.150	49.704	18.070	18.349	1.036	44.770	5.646	22.400
304	15.200	49.868	19.880	20.007	0.964	20.360	4.818	12.400
305	15.250	50.032	29.250	29.813	1.397	90.190	4.686	17.100
306	15.300	50.196	27.770	28.245	1.469	76.140	5.201	28.200
307	15.350	50.360	29.450	30.596	1.714	183.610	5.602	29.900
308	15.400	50.524	39.550	39.755	1.922	32.820	4.835	39.900
309	15.450	50.688	67.740	67.813	2.323	11.670	3.426	32.600
310	15.500	50.852	49.330	49.345	1.816	2.360	3.680	49.200
311	15.550	51.016	19.460	19.841	1.256	61.060	6.330	63.300
312	15.600	51.180	16.220	16.358	0.865	22.070	5.288	0.000
313	15.650	51.345	16.730	16.803	0.877	11.680	5.219	0.000
314	15.700	51.509	15.360	15.449	0.781	14.280	5.055	0.000
315	15.750	51.673	22.860	23.180	0.656	51.270	2.830	0.000
316	15.800	51.837	29.250	29.272	0.581	3.580	1.985	0.000
317	15.850	52.001	29.180	29.259	0.628	12.650	2.146	0.000
318	15.900	52.165	26.370	26.431	0.657	9.800	2.486	0.000
319	15.950	52.329	29.520	29.596	0.702	12.220	2.372	0.000
320	16.000	52.493	32.630	32.682	0.661	8.370	2.023	0.000
321	16.050	52.657	34.210	34.272	0.726	9.960	2.118	0.000
322	16.100	52.821	44.910	44.971	0.728	9.830	1.619	0.000
323	16.150	52.985	88.910	89.007	0.792	15.570	0.890	0.000
324	16.200	53.149	136.810	136.883	0.984	11.760	0.719	0.000
325	16.250	53.313	182.790	182.891	1.305	16.200	0.714	0.000
326	16.300	53.477	244.840	244.968	0.000	20.450	0.000	0.000
327	16.350	53.641	306.580	306.692	0.000	17.990	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221502
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-6
Cone ID:	410:T1500F15U500
Operator:	DC/YB
CPT Date:	Feb-07-2014
CPT Time:	11:02
CPT File:	13-53075_GP1C-6.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722042.231
Northing / Lat:	4294196.828
Elevation:	142.790
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	16.130	16.179	0.004	7.770	0.025	34.900
2	0.100	0.328	74.310	74.337	0.006	4.340	0.008	44.800
3	0.150	0.492	159.620	159.868	0.294	39.770	0.184	49.800
4	0.200	0.656	119.070	119.382	0.620	49.970	0.519	69.900
5	0.250	0.820	61.210	61.369	0.508	25.510	0.828	74.200
6	0.300	0.984	38.720	38.898	0.350	28.470	0.900	66.800
7	0.350	1.148	31.000	31.081	0.298	13.010	0.959	91.300
8	0.400	1.312	30.880	30.941	0.257	9.780	0.831	86.800
9	0.450	1.476	28.820	28.883	0.077	10.050	0.267	91.100
10	0.500	1.640	25.850	25.869	0.117	3.000	0.452	86.700
11	0.550	1.804	22.100	22.099	0.174	-0.120	0.787	79.200
12	0.600	1.968	18.490	18.514	0.281	3.910	1.518	82.700
13	0.650	2.133	12.450	12.485	0.361	5.630	2.891	92.700
14	0.700	2.297	9.250	9.281	0.252	4.960	2.715	90.300
15	0.750	2.461	8.400	8.408	0.205	1.280	2.438	84.800
16	0.800	2.625	7.690	7.683	0.146	-1.060	1.900	100.100
17	0.850	2.789	6.040	6.023	0.118	-2.760	1.959	91.700
18	0.900	2.953	8.990	8.980	0.148	-1.600	1.648	82.500
19	0.950	3.117	11.110	11.099	0.126	-1.750	1.135	82.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	10.380	10.365	0.140	-2.440	1.351	65.800
21	1.050	3.445	9.380	9.354	0.100	-4.120	1.069	71.400
22	1.100	3.609	8.070	8.039	0.149	-4.910	1.853	51.200
23	1.150	3.773	8.520	8.483	0.093	-5.990	1.096	49.900
24	1.200	3.937	13.740	13.711	0.060	-4.700	0.438	35.300
25	1.250	4.101	25.280	25.263	0.100	-2.700	0.396	45.600
26	1.300	4.265	23.830	23.868	0.230	6.080	0.964	30.100
27	1.350	4.429	21.540	21.564	0.359	3.860	1.665	37.900
28	1.400	4.593	23.480	23.509	0.289	4.590	1.229	30.300
29	1.450	4.757	17.850	17.874	0.308	3.880	1.723	41.500
30	1.500	4.921	41.860	41.878	0.527	2.810	1.258	43.500
31	1.550	5.085	79.900	79.962	0.560	9.970	0.700	47.300
32	1.600	5.249	76.810	76.814	0.568	0.690	0.739	59.800
33	1.650	5.413	17.020	17.064	0.382	7.090	2.239	70.600
34	1.700	5.577	8.870	8.906	0.220	5.690	2.470	71.500
35	1.750	5.741	8.780	8.838	0.170	9.230	1.924	81.500
36	1.800	5.905	11.040	11.115	0.154	11.990	1.386	76.600
37	1.850	6.069	10.360	10.430	0.168	11.140	1.611	78.500
38	1.900	6.234	10.360	10.413	0.195	8.420	1.873	74.300
39	1.950	6.398	13.650	13.701	0.247	8.180	1.803	89.100
40	2.000	6.562	13.730	13.783	0.364	8.470	2.641	57.100
41	2.050	6.726	11.580	11.603	0.375	3.620	3.232	59.900
42	2.100	6.890	18.080	18.096	0.213	2.530	1.177	41.700
43	2.150	7.054	21.590	21.698	0.458	17.260	2.111	30.900
44	2.200	7.218	60.530	60.601	0.623	11.450	1.028	33.300
45	2.250	7.382	19.480	19.623	0.547	22.940	2.788	27.800
46	2.300	7.546	15.460	15.467	0.597	1.200	3.860	16.800
47	2.350	7.710	49.680	49.672	0.538	-1.230	1.083	26.500
48	2.400	7.874	70.140	70.179	1.290	6.210	1.838	23.200
49	2.450	8.038	60.350	60.391	1.348	6.570	2.232	24.000
50	2.500	8.202	85.340	85.375	1.261	5.540	1.477	21.800
51	2.550	8.366	73.440	73.496	1.128	8.970	1.535	15.900
52	2.600	8.530	48.080	48.086	1.049	1.030	2.181	24.500
53	2.650	8.694	65.590	65.594	0.743	0.570	1.133	20.900
54	2.700	8.858	116.530	116.714	1.320	29.540	1.131	23.700
55	2.750	9.022	105.560	105.793	1.724	37.290	1.630	20.900
56	2.800	9.186	75.910	75.953	1.669	6.850	2.197	22.900
57	2.850	9.350	114.490	114.517	1.373	4.250	1.199	20.800
58	2.900	9.514	94.380	94.483	1.324	16.550	1.401	23.600
59	2.950	9.678	61.390	61.475	1.428	13.590	2.323	29.300
60	3.000	9.842	48.780	48.798	1.024	2.940	2.098	38.200
61	3.050	10.006	56.020	56.014	0.815	-1.020	1.455	32.800
62	3.100	10.170	51.140	51.176	0.947	5.750	1.850	43.100
63	3.150	10.335	34.510	34.509	0.753	-0.130	2.182	58.400
64	3.200	10.499	33.410	33.418	0.759	1.210	2.271	73.800
65	3.250	10.663	36.670	36.686	0.720	2.500	1.963	79.800
66	3.300	10.827	46.610	46.690	0.777	12.790	1.664	89.000
67	3.350	10.991	61.140	61.170	0.627	4.750	1.025	89.600
68	3.400	11.155	36.690	36.697	0.855	1.140	2.330	79.900
69	3.450	11.319	29.610	29.834	0.690	35.860	2.313	83.200
70	3.500	11.483	26.910	27.001	0.527	14.600	1.952	78.800
71	3.550	11.647	26.880	26.963	0.428	13.250	1.587	89.600
72	3.600	11.811	29.390	29.494	0.434	16.610	1.472	78.000
73	3.650	11.975	29.130	29.221	0.529	14.540	1.810	85.600
74	3.700	12.139	26.500	26.594	0.936	15.010	3.520	66.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	98.210	98.220	1.439	1.560	1.465	51.400
76	3.800	12.467	58.790	58.919	1.935	20.710	3.284	30.500
77	3.850	12.631	41.650	41.710	1.884	9.630	4.517	23.300
78	3.900	12.795	46.840	46.868	1.138	4.430	2.428	21.000
79	3.950	12.959	53.950	53.970	0.680	3.280	1.260	17.200
80	4.000	13.123	52.680	52.700	0.584	3.280	1.108	19.100
81	4.050	13.287	80.840	80.839	0.689	-0.190	0.852	16.500
82	4.100	13.451	95.190	95.306	0.874	18.630	0.917	15.500
83	4.150	13.615	66.410	66.453	0.756	6.830	1.138	14.800
84	4.200	13.779	60.980	60.972	1.102	-1.280	1.807	13.800
85	4.250	13.943	79.270	79.276	0.950	0.940	1.198	10.500
86	4.300	14.107	25.090	25.110	0.854	3.150	3.401	6.000
87	4.350	14.271	25.920	25.961	0.134	6.510	0.516	12.500
88	4.400	14.436	27.210	27.263	0.203	8.510	0.745	12.500
89	4.450	14.600	38.810	38.846	0.401	5.830	1.032	6.600
90	4.500	14.764	99.980	100.029	1.299	7.920	1.299	10.600
91	4.550	14.928	86.020	86.381	1.406	57.810	1.628	13.300
92	4.600	15.092	27.640	27.640	1.776	0.070	6.425	10.300
93	4.650	15.256	38.060	38.143	1.472	13.270	3.859	10.100
94	4.700	15.420	42.300	42.336	1.848	5.700	4.365	11.000
95	4.750	15.584	48.400	48.474	2.014	11.780	4.155	11.100
96	4.800	15.748	73.550	73.546	2.451	-0.620	3.333	17.000
97	4.850	15.912	77.380	77.446	2.337	10.560	3.018	16.000
98	4.900	16.076	142.490	142.520	2.514	4.880	1.764	22.800
99	4.950	16.240	136.940	136.970	1.990	4.880	1.453	34.000
100	5.000	16.404	84.350	84.444	1.722	15.040	2.039	36.400
101	5.050	16.568	51.420	51.432	1.501	1.990	2.918	49.100
102	5.100	16.732	36.360	36.409	1.318	7.770	3.620	36.300
103	5.150	16.896	41.110	41.281	1.267	27.380	3.069	26.900
104	5.200	17.060	48.300	48.256	1.056	-7.040	2.188	31.900
105	5.250	17.224	53.260	53.254	1.230	-0.900	2.310	23.400
106	5.300	17.388	42.080	42.055	1.084	-4.000	2.578	18.400
107	5.350	17.552	33.740	33.754	0.828	2.260	2.453	18.700
108	5.400	17.716	52.890	52.900	0.819	1.630	1.548	15.200
109	5.450	17.880	36.830	36.851	1.273	3.420	3.454	16.700
110	5.500	18.044	107.490	107.485	1.690	-0.760	1.572	19.500
111	5.550	18.208	105.450	105.483	1.854	5.280	1.758	18.200
112	5.600	18.372	92.670	92.810	1.553	22.480	1.673	24.900
113	5.650	18.537	89.720	89.839	1.342	19.010	1.494	25.100
114	5.700	18.701	81.460	81.528	1.301	10.890	1.596	37.300
115	5.750	18.865	78.070	78.114	1.078	6.980	1.380	42.700
116	5.800	19.029	64.610	64.654	0.881	7.100	1.363	56.900
117	5.850	19.193	53.370	53.401	0.681	4.940	1.275	60.400
118	5.900	19.357	31.260	31.397	0.488	22.000	1.554	70.000
119	5.950	19.521	25.400	25.575	0.665	27.980	2.600	72.500
120	6.000	19.685	25.730	26.023	0.658	46.970	2.529	60.600
121	6.050	19.849	65.240	65.334	1.095	15.090	1.676	68.700
122	6.100	20.013	43.530	43.552	1.160	3.600	2.663	66.700
123	6.150	20.177	42.380	42.537	0.936	25.180	2.200	65.000
124	6.200	20.341	39.620	39.955	0.788	53.710	1.972	75.400
125	6.250	20.505	47.730	47.795	0.822	10.370	1.720	92.500
126	6.300	20.669	42.970	43.017	0.848	7.480	1.971	108.100
127	6.350	20.833	30.510	30.563	0.885	8.560	2.896	109.800
128	6.400	20.997	19.310	19.381	0.674	11.370	3.478	113.200
129	6.450	21.161	19.330	19.364	0.756	5.440	3.904	145.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	21.790	21.770	0.733	-3.140	3.367	202.500
131	6.550	21.489	14.470	14.417	0.758	-8.480	5.258	354.000
132	6.600	21.653	16.730	16.706	0.628	-3.850	3.759	550.900
133	6.650	21.817	13.170	13.156	0.600	-2.280	4.561	897.500
134	6.700	21.981	24.550	24.558	0.441	1.240	1.796	1276.700
135	6.750	22.145	25.580	25.576	0.620	-0.700	2.424	1413.500
136	6.800	22.309	31.390	31.384	0.763	-0.960	2.431	1342.300
137	6.850	22.473	20.670	20.657	0.699	-2.080	3.384	1045.400
138	6.900	22.638	18.740	18.730	0.794	-1.680	4.239	727.300
139	6.950	22.802	32.820	32.879	1.088	9.440	3.309	514.700
140	7.000	22.966	67.280	67.277	1.514	-0.550	2.250	344.700
141	7.050	23.130	57.260	57.335	2.178	11.960	3.799	264.000
142	7.100	23.294	100.370	100.381	2.007	1.690	1.999	187.400
143	7.150	23.458	66.270	66.452	1.813	29.230	2.728	159.900
144	7.200	23.622	99.050	99.070	1.949	3.130	1.967	135.700
145	7.250	23.786	84.600	84.635	1.893	5.680	2.237	131.600
146	7.300	23.950	74.790	74.808	2.152	2.920	2.877	124.600
147	7.350	24.114	82.920	82.922	2.720	0.250	3.280	127.900
148	7.400	24.278	68.680	68.688	1.587	1.210	2.310	126.100
149	7.450	24.442	71.120	71.149	1.762	4.700	2.476	106.100
150	7.500	24.606	54.200	54.190	1.329	-1.540	2.452	0.000
151	7.550	24.770	23.220	23.226	1.074	0.900	4.624	0.000
152	7.600	24.934	161.530	161.542	2.361	1.900	1.462	0.000
153	7.650	25.098	191.650	191.652	2.933	0.380	1.530	0.000
154	7.700	25.262	181.820	182.059	3.079	38.330	1.691	0.000
155	7.750	25.426	107.660	107.660	1.726	0.000	1.603	0.000
156	7.800	25.590	37.650	37.648	1.469	-0.250	3.902	0.000
157	7.850	25.754	39.910	39.943	0.699	5.320	1.750	0.000
158	7.900	25.918	24.220	24.218	0.517	-0.330	2.135	0.000
159	7.950	26.082	14.680	14.698	0.317	2.860	2.157	0.000
160	8.000	26.246	11.590	11.630	0.237	6.450	2.038	0.000
161	8.050	26.410	21.520	21.533	0.503	2.160	2.336	0.000
162	8.100	26.574	30.780	30.787	0.724	1.050	2.352	0.000
163	8.150	26.739	79.620	79.602	1.249	-2.950	1.569	0.000
164	8.200	26.903	186.310	186.327	0.000	2.740	0.000	0.000
165	8.250	27.067	353.770	353.772	0.000	0.330	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221505
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-6T1
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-18-2014
CPT Time:	16:46
CPT File:	13-53075_GP1C-6T1.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722043.773
Northing / Lat:	4294194.557
Elevation:	142.812
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.510	1.648	0.001	22.100	0.061	47.400
2	0.100	0.328	1.550	1.585	0.002	5.600	0.126	62.300
3	0.150	0.492	28.110	28.196	0.002	13.810	0.007	53.900
4	0.200	0.656	74.800	74.851	0.001	8.210	0.001	51.000
5	0.250	0.820	129.180	129.188	0.002	1.280	0.002	55.100
6	0.300	0.984	118.150	118.188	0.001	6.040	0.001	68.500
7	0.350	1.148	113.750	113.777	0.002	4.360	0.002	81.100
8	0.400	1.312	79.740	80.616	0.002	140.260	0.002	69.200
9	0.450	1.476	62.500	63.283	0.023	125.350	0.036	90.600
10	0.500	1.640	37.300	37.394	0.012	15.010	0.032	93.200
11	0.550	1.804	23.570	23.615	0.012	7.260	0.051	85.600
12	0.600	1.968	34.580	34.576	0.257	-0.600	0.743	100.700
13	0.650	2.133	50.090	50.087	0.484	-0.480	0.966	105.500
14	0.700	2.297	65.230	65.220	0.571	-1.610	0.875	81.200
15	0.750	2.461	61.860	61.828	0.615	-5.130	0.995	97.800
16	0.800	2.625	55.330	55.310	1.133	-3.260	2.048	95.300
17	0.850	2.789	51.330	51.305	1.126	-3.940	2.195	103.300
18	0.900	2.953	58.300	58.289	0.650	-1.770	1.115	82.700
19	0.950	3.117	50.250	50.280	0.370	4.760	0.736	81.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	32.240	32.334	0.260	15.120	0.804	86.700
21	1.050	3.445	22.660	22.697	0.194	5.960	0.855	86.100
22	1.100	3.609	15.120	15.136	0.124	2.590	0.819	94.100
23	1.150	3.773	9.440	9.437	0.059	-0.540	0.625	89.400
24	1.200	3.937	7.050	6.975	0.012	-12.040	0.172	80.300
25	1.250	4.101	5.380	5.309	0.012	-11.420	0.226	61.800
26	1.300	4.265	6.860	6.802	0.025	-9.280	0.368	49.300
27	1.350	4.429	9.930	9.939	0.072	1.460	0.724	45.200
28	1.400	4.593	11.860	11.851	0.211	-1.460	1.780	54.900
29	1.450	4.757	4.050	4.005	0.151	-7.220	3.770	53.600
30	1.500	4.921	0.480	0.506	0.065	4.140	12.850	52.100
31	1.550	5.085	5.220	5.213	0.042	-1.060	0.806	52.100
32	1.600	5.249	9.040	9.115	0.024	12.040	0.263	46.600
33	1.650	5.413	5.060	5.043	0.034	-2.730	0.674	42.000
34	1.700	5.577	3.750	3.752	0.030	0.260	0.800	42.900
35	1.750	5.741	8.800	8.817	0.055	2.660	0.624	40.900
36	1.800	5.905	13.100	13.137	0.101	5.860	0.769	39.600
37	1.850	6.069	21.360	21.402	0.174	6.800	0.813	50.300
38	1.900	6.234	14.890	14.959	0.185	10.980	1.237	61.200
39	1.950	6.398	6.460	6.526	0.153	10.520	2.345	67.000
40	2.000	6.562	4.910	4.953	0.081	6.950	1.635	73.500
41	2.050	6.726	4.790	4.839	0.053	7.780	1.095	78.100
42	2.100	6.890	5.960	6.038	0.031	12.530	0.513	99.300
43	2.150	7.054	8.030	8.131	0.089	16.140	1.095	63.200
44	2.200	7.218	8.500	8.588	0.090	14.110	1.048	61.900
45	2.250	7.382	8.080	8.105	0.091	3.960	1.123	42.500
46	2.300	7.546	8.960	8.953	0.083	-1.200	0.927	50.200
47	2.350	7.710	27.630	27.699	0.146	11.110	0.527	37.100
48	2.400	7.874	27.890	27.942	0.147	8.390	0.526	22.000
49	2.450	8.038	54.910	54.955	0.233	7.240	0.424	23.300
50	2.500	8.202	100.780	100.820	0.318	6.390	0.315	24.500
51	2.550	8.366	88.770	89.092	0.166	51.600	0.186	18.200
52	2.600	8.530	88.580	89.197	0.417	98.870	0.468	18.700
53	2.650	8.694	80.770	81.191	0.185	67.510	0.228	14.200
54	2.700	8.858	82.340	82.568	0.169	36.480	0.205	13.200
55	2.750	9.022	65.210	66.009	0.103	128.010	0.156	20.200
56	2.800	9.186	53.800	54.068	0.086	42.880	0.159	21.900
57	2.850	9.350	52.830	53.121	0.075	46.660	0.141	19.900
58	2.900	9.514	51.050	51.303	0.028	40.560	0.055	24.700
59	2.950	9.678	67.970	68.263	0.032	46.980	0.047	22.300
60	3.000	9.842	69.280	69.584	0.031	48.750	0.045	28.600
61	3.050	10.006	40.370	40.541	0.026	27.440	0.064	30.000
62	3.100	10.170	34.860	34.914	0.030	8.610	0.086	30.900
63	3.150	10.335	50.330	50.420	0.240	14.480	0.476	37.700
64	3.200	10.499	66.350	66.485	0.311	21.670	0.468	40.000
65	3.250	10.663	71.080	71.487	0.087	65.130	0.122	63.400
66	3.300	10.827	74.350	74.872	0.027	83.540	0.036	60.900
67	3.350	10.991	66.260	66.674	0.070	66.250	0.105	68.200
68	3.400	11.155	60.580	60.892	0.221	49.960	0.363	87.000
69	3.450	11.319	67.570	68.113	0.193	87.050	0.283	89.100
70	3.500	11.483	68.700	69.355	0.255	104.880	0.368	82.900
71	3.550	11.647	73.890	74.387	0.255	79.600	0.343	65.900
72	3.600	11.811	71.010	71.573	0.192	90.140	0.268	54.200
73	3.650	11.975	70.340	70.824	0.467	77.460	0.659	46.500
74	3.700	12.139	92.730	93.300	0.942	91.370	1.010	36.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	105.920	106.308	1.135	62.160	1.068	33.100
76	3.800	12.467	34.680	35.117	0.914	70.080	2.603	32.200
77	3.850	12.631	20.780	20.871	0.912	14.630	4.370	22.400
78	3.900	12.795	66.000	66.004	0.853	0.650	1.292	24.900
79	3.950	12.959	51.930	52.563	1.108	101.320	2.108	17.400
80	4.000	13.123	35.700	35.730	0.810	4.830	2.267	19.900
81	4.050	13.287	26.580	26.599	0.488	3.050	1.835	12.300
82	4.100	13.451	32.350	32.357	0.316	1.090	0.977	12.400
83	4.150	13.615	23.410	23.438	0.507	4.430	2.163	12.400
84	4.200	13.779	23.450	23.496	0.454	7.330	1.932	8.800
85	4.250	13.943	30.910	30.934	0.562	3.880	1.817	13.200
86	4.300	14.107	20.620	20.617	0.402	-0.430	1.950	11.800
87	4.350	14.271	38.660	38.647	0.609	-2.160	1.576	12.900
88	4.400	14.436	77.750	77.796	0.951	7.330	1.222	9.600
89	4.450	14.600	84.960	84.995	1.253	5.610	1.474	7.600
90	4.500	14.764	35.690	35.690	1.071	0.030	3.001	10.200
91	4.550	14.928	35.040	35.049	1.166	1.380	3.327	13.900
92	4.600	15.092	59.370	59.376	1.295	1.040	2.181	9.300
93	4.650	15.256	61.650	61.682	1.420	5.090	2.302	9.900
94	4.700	15.420	93.340	93.405	1.417	10.440	1.517	10.900
95	4.750	15.584	98.450	98.596	1.986	23.350	2.014	12.100
96	4.800	15.748	77.580	77.568	2.025	-1.900	2.611	17.800
97	4.850	15.912	37.320	37.319	1.633	-0.190	4.376	12.100
98	4.900	16.076	36.540	36.519	1.379	-3.350	3.776	13.200
99	4.950	16.240	43.450	43.529	0.949	12.640	2.180	20.100
100	5.000	16.404	26.150	26.178	1.183	4.530	4.519	26.200
101	5.050	16.568	25.710	25.739	1.014	4.670	3.940	29.300
102	5.100	16.732	20.980	21.127	0.724	23.600	3.427	39.000
103	5.150	16.896	15.880	15.943	0.578	10.090	3.625	34.200
104	5.200	17.060	23.480	23.600	0.558	19.280	2.364	27.600
105	5.250	17.224	49.560	49.612	1.143	8.290	2.304	24.300
106	5.300	17.388	43.410	43.475	1.083	10.360	2.491	18.300
107	5.350	17.552	26.080	26.123	0.941	6.880	3.602	17.200
108	5.400	17.716	28.730	28.744	0.872	2.220	3.034	15.400
109	5.450	17.880	28.660	28.711	0.425	8.160	1.480	17.400
110	5.500	18.044	32.480	32.553	0.395	11.770	1.213	16.500
111	5.550	18.208	30.560	30.798	0.294	38.190	0.955	16.000
112	5.600	18.372	32.270	32.330	0.283	9.690	0.875	26.600
113	5.650	18.537	26.980	26.990	0.423	1.530	1.567	27.100
114	5.700	18.701	32.900	32.925	0.675	3.960	2.050	46.900
115	5.750	18.865	33.920	33.991	0.668	11.420	1.965	60.100
116	5.800	19.029	34.640	34.665	0.748	4.040	2.158	75.600
117	5.850	19.193	32.760	32.771	0.684	1.770	2.087	66.900
118	5.900	19.357	29.510	29.569	0.647	9.390	2.188	78.700
119	5.950	19.521	28.840	28.850	0.547	1.570	1.896	64.300
120	6.000	19.685	26.990	27.055	0.628	10.350	2.321	67.400
121	6.050	19.849	35.670	35.711	0.859	6.490	2.405	60.300
122	6.100	20.013	43.830	43.887	0.943	9.070	2.149	73.600
123	6.150	20.177	40.780	40.959	1.371	28.610	3.347	71.200
124	6.200	20.341	34.050	33.970	1.166	-12.880	3.432	62.600
125	6.250	20.505	43.890	43.863	0.747	-4.360	1.703	76.500
126	6.300	20.669	41.280	41.443	0.694	26.160	1.675	94.600
127	6.350	20.833	61.130	61.253	0.916	19.750	1.495	97.300
128	6.400	20.997	45.700	45.859	0.925	25.450	2.017	92.500
129	6.450	21.161	33.990	34.094	0.935	16.660	2.742	101.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	30.230	30.290	0.803	9.590	2.651	107.200
131	6.550	21.489	23.650	23.693	0.687	6.850	2.900	81.400
132	6.600	21.653	17.910	17.907	0.518	-0.410	2.893	90.000
133	6.650	21.817	20.770	20.742	0.464	-4.560	2.237	104.400
134	6.700	21.981	16.170	16.120	0.458	-7.970	2.841	96.800
135	6.750	22.145	20.700	20.676	0.370	-3.890	1.790	122.200
136	6.800	22.309	12.210	12.198	0.342	-1.920	2.804	148.700
137	6.850	22.473	15.520	15.488	0.371	-5.120	2.395	213.700
138	6.900	22.638	17.990	17.986	0.347	-0.600	1.929	341.400
139	6.950	22.802	14.000	13.994	0.308	-0.910	2.201	575.100
140	7.000	22.966	25.350	25.314	0.338	-5.780	1.335	982.800
141	7.050	23.130	30.320	30.324	0.478	0.700	1.576	1796.800
142	7.100	23.294	44.890	44.892	0.623	0.280	1.388	2745.500
143	7.150	23.458	21.260	21.260	0.812	0.000	3.819	2862.900
144	7.200	23.622	15.470	15.471	0.481	0.090	3.109	2214.300
145	7.250	23.786	24.440	24.449	0.362	1.400	1.481	1561.500
146	7.300	23.950	31.720	31.835	0.389	18.440	1.222	1080.700
147	7.350	24.114	44.600	44.617	0.383	2.700	0.858	0.000
148	7.400	24.278	40.470	40.499	0.486	4.600	1.200	0.000
149	7.450	24.442	27.680	27.684	0.939	0.610	3.392	0.000
150	7.500	24.606	23.700	23.757	0.841	9.180	3.540	0.000
151	7.550	24.770	35.350	35.350	0.775	-0.060	2.192	0.000
152	7.600	24.934	18.470	18.405	0.420	-10.370	2.282	0.000
153	7.650	25.098	8.970	8.987	0.327	2.750	3.639	0.000
154	7.700	25.262	10.540	10.542	0.120	0.390	1.138	0.000
155	7.750	25.426	8.310	8.330	0.066	3.260	0.792	0.000
156	7.800	25.590	8.540	8.571	0.074	4.920	0.863	0.000
157	7.850	25.754	11.860	11.877	0.195	2.770	1.642	0.000
158	7.900	25.918	24.240	24.260	0.873	3.280	3.598	0.000
159	7.950	26.082	26.630	26.802	1.684	27.630	6.283	0.000
160	8.000	26.246	79.340	79.364	3.018	3.780	3.803	0.000
161	8.050	26.410	266.360	266.375	0.000	2.440	0.000	0.000
162	8.100	26.574	296.120	296.117	0.000	-0.440	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221504
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-6T
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-18-2014
CPT Time:	11:07
CPT File:	13-53075_GP1C-6T.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722043.481
Northing / Lat:	4294195.096
Elevation:	142.818
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	9.420	9.444	0.002	3.920	0.021	49.500
2	0.100	0.328	44.010	44.043	0.004	5.330	0.009	57.900
3	0.150	0.492	61.780	61.842	0.002	10.000	0.003	59.400
4	0.200	0.656	107.390	107.498	0.001	17.290	0.001	56.800
5	0.250	0.820	98.590	98.675	0.001	13.610	0.001	68.500
6	0.300	0.984	112.840	112.951	0.002	17.860	0.002	70.100
7	0.350	1.148	72.940	73.136	0.001	31.380	0.001	94.700
8	0.400	1.312	56.650	57.056	0.002	65.100	0.004	89.800
9	0.450	1.476	40.530	40.729	0.001	31.900	0.002	107.500
10	0.500	1.640	39.460	39.714	0.002	40.700	0.005	104.900
11	0.550	1.804	56.990	57.179	0.002	30.320	0.003	84.400
12	0.600	1.968	57.840	57.925	0.433	13.560	0.748	98.400
13	0.650	2.133	56.580	56.645	0.493	10.430	0.870	95.800
14	0.700	2.297	36.500	36.547	0.351	7.580	0.960	83.400
15	0.750	2.461	26.440	26.474	0.171	5.490	0.646	84.900
16	0.800	2.625	21.340	21.365	0.138	4.080	0.646	75.300
17	0.850	2.789	25.180	25.199	0.161	3.080	0.639	83.200
18	0.900	2.953	38.440	38.457	0.404	2.650	1.051	76.400
19	0.950	3.117	14.290	14.307	0.416	2.700	2.908	76.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	8.700	8.718	0.266	2.920	3.051	74.100
21	1.050	3.445	10.460	10.482	0.163	3.570	1.555	62.200
22	1.100	3.609	12.160	12.179	0.052	3.110	0.427	52.100
23	1.150	3.773	15.580	15.594	0.020	2.300	0.128	40.000
24	1.200	3.937	18.350	18.369	0.014	3.110	0.076	42.400
25	1.250	4.101	20.120	20.138	0.039	2.950	0.194	40.700
26	1.300	4.265	29.880	29.900	0.135	3.220	0.452	40.200
27	1.350	4.429	47.580	47.603	0.144	3.730	0.303	45.100
28	1.400	4.593	61.050	61.074	0.208	3.890	0.341	33.000
29	1.450	4.757	110.550	110.575	0.330	3.940	0.298	39.900
30	1.500	4.921	162.660	162.694	0.912	5.470	0.561	39.600
31	1.550	5.085	186.280	186.342	0.774	9.980	0.415	38.400
32	1.600	5.249	27.670	27.706	0.913	5.780	3.295	30.600
33	1.650	5.413	20.340	20.372	0.489	5.170	2.400	35.800
34	1.700	5.577	13.520	13.553	0.531	5.290	3.918	36.400
35	1.750	5.741	16.480	16.540	0.359	9.540	2.171	43.000
36	1.800	5.905	14.840	14.876	0.324	5.820	2.178	40.900
37	1.850	6.069	12.590	12.609	0.213	3.080	1.689	48.500
38	1.900	6.234	9.150	9.171	0.184	3.290	2.006	69.300
39	1.950	6.398	10.630	10.667	0.204	5.940	1.912	74.200
40	2.000	6.562	6.150	6.181	0.152	4.900	2.459	67.800
41	2.050	6.726	5.640	5.669	0.149	4.590	2.628	63.800
42	2.100	6.890	4.840	4.864	0.068	3.860	1.398	65.500
43	2.150	7.054	19.980	19.978	0.482	-0.360	2.413	44.600
44	2.200	7.218	29.790	29.787	0.477	-0.560	1.601	43.000
45	2.250	7.382	13.370	13.401	0.642	4.890	4.791	33.900
46	2.300	7.546	22.630	22.660	0.315	4.810	1.390	33.100
47	2.350	7.710	8.440	8.475	0.410	5.550	4.838	27.100
48	2.400	7.874	14.580	14.593	0.291	2.030	1.994	24.400
49	2.450	8.038	18.860	18.864	0.350	0.600	1.855	19.900
50	2.500	8.202	28.560	28.576	0.257	2.600	0.899	15.100
51	2.550	8.366	17.410	17.437	0.398	4.250	2.283	24.200
52	2.600	8.530	26.140	26.169	0.313	4.660	1.196	18.200
53	2.650	8.694	15.100	15.127	0.284	4.330	1.877	13.400
54	2.700	8.858	16.730	16.735	0.381	0.750	2.277	19.300
55	2.750	9.022	34.780	34.835	0.626	8.880	1.797	14.500
56	2.800	9.186	29.060	29.126	0.475	10.560	1.631	21.100
57	2.850	9.350	19.600	19.658	0.750	9.330	3.815	22.200
58	2.900	9.514	37.100	37.139	0.471	6.300	1.268	27.700
59	2.950	9.678	39.400	39.425	0.536	3.960	1.360	28.000
60	3.000	9.842	22.730	22.743	0.644	2.060	2.832	30.300
61	3.050	10.006	38.910	38.923	0.907	2.020	2.330	37.400
62	3.100	10.170	49.690	49.743	0.810	8.420	1.628	34.500
63	3.150	10.335	20.040	20.106	0.680	10.530	3.382	44.700
64	3.200	10.499	10.040	10.082	0.231	6.670	2.291	58.800
65	3.250	10.663	6.640	6.668	0.220	4.510	3.299	70.200
66	3.300	10.827	10.750	10.790	0.251	6.450	2.326	73.000
67	3.350	10.991	17.160	17.215	0.441	8.800	2.562	90.500
68	3.400	11.155	23.170	23.247	0.654	12.260	2.813	76.800
69	3.450	11.319	26.530	26.622	0.887	14.670	3.332	65.500
70	3.500	11.483	25.770	25.848	0.543	12.480	2.101	66.800
71	3.550	11.647	24.250	24.321	0.915	11.390	3.762	48.800
72	3.600	11.811	52.530	52.555	0.967	3.950	1.840	44.600
73	3.650	11.975	34.660	34.734	0.964	11.840	2.775	35.100
74	3.700	12.139	22.060	22.117	0.669	9.100	3.025	39.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	14.370	14.401	0.303	4.910	2.104	29.400
76	3.800	12.467	17.720	17.727	0.403	1.130	2.273	22.700
77	3.850	12.631	69.480	69.502	0.779	3.600	1.121	24.900
78	3.900	12.795	28.060	28.058	0.822	-0.270	2.930	19.400
79	3.950	12.959	35.980	35.995	0.890	2.390	2.473	15.500
80	4.000	13.123	49.060	49.081	0.619	3.430	1.261	12.900
81	4.050	13.287	33.840	33.860	1.011	3.130	2.986	14.500
82	4.100	13.451	24.240	24.254	1.305	2.280	5.381	9.000
83	4.150	13.615	45.400	45.424	1.324	3.800	2.915	9.300
84	4.200	13.779	19.380	19.402	1.284	3.530	6.618	11.200
85	4.250	13.943	37.510	37.536	1.406	4.210	3.746	14.000
86	4.300	14.107	57.360	57.384	1.211	3.920	2.110	8.500
87	4.350	14.271	53.710	53.725	0.794	2.410	1.478	9.900
88	4.400	14.436	40.500	40.507	0.864	1.060	2.133	9.400
89	4.450	14.600	40.840	40.896	1.116	9.010	2.729	9.900
90	4.500	14.764	126.330	126.384	2.050	8.650	1.622	8.500
91	4.550	14.928	105.290	105.314	2.126	3.790	2.019	7.000
92	4.600	15.092	71.140	71.166	2.264	4.230	3.181	8.800
93	4.650	15.256	51.280	51.306	1.777	4.120	3.464	10.400
94	4.700	15.420	78.460	78.533	1.953	11.690	2.487	8.300
95	4.750	15.584	68.410	68.446	1.854	5.740	2.709	11.800
96	4.800	15.748	54.370	54.386	1.653	2.490	3.039	14.500
97	4.850	15.912	50.930	50.955	1.414	3.960	2.775	16.000
98	4.900	16.076	39.610	39.629	1.148	3.110	2.897	17.100
99	4.950	16.240	30.030	30.054	0.975	3.890	3.244	27.600
100	5.000	16.404	40.500	40.515	0.864	2.460	2.133	31.800
101	5.050	16.568	29.320	29.332	0.572	1.950	1.950	31.800
102	5.100	16.732	17.090	17.189	0.595	15.880	3.461	28.400
103	5.150	16.896	19.030	19.124	0.443	15.130	2.316	25.600
104	5.200	17.060	23.430	23.519	0.627	14.220	2.666	23.800
105	5.250	17.224	32.980	33.054	0.789	11.840	2.387	13.900
106	5.300	17.388	18.060	18.105	0.837	7.160	4.623	16.100
107	5.350	17.552	15.760	15.859	0.548	15.900	3.455	17.400
108	5.400	17.716	5.580	5.612	0.253	5.080	4.508	18.700
109	5.450	17.880	15.800	15.812	0.069	1.970	0.436	17.800
110	5.500	18.044	33.800	33.811	0.039	1.710	0.115	17.200
111	5.550	18.208	25.480	25.504	0.179	3.860	0.702	26.200
112	5.600	18.372	19.870	19.897	0.147	4.390	0.739	33.600
113	5.650	18.537	18.810	18.834	0.472	3.910	2.506	39.700
114	5.700	18.701	32.040	32.051	0.441	1.820	1.376	44.300
115	5.750	18.865	45.840	45.867	0.422	4.270	0.920	56.700
116	5.800	19.029	47.580	47.627	0.448	7.450	0.941	72.300
117	5.850	19.193	20.270	20.339	0.430	11.070	2.114	72.900
118	5.900	19.357	25.090	25.148	0.298	9.290	1.185	78.700
119	5.950	19.521	20.280	20.306	0.241	4.210	1.187	76.300
120	6.000	19.685	27.010	27.055	0.713	7.180	2.635	67.900
121	6.050	19.849	57.050	57.052	1.008	0.350	1.767	81.800
122	6.100	20.013	23.460	23.482	1.151	3.600	4.902	74.800
123	6.150	20.177	25.820	25.829	0.923	1.400	3.574	80.300
124	6.200	20.341	66.380	66.453	0.740	11.720	1.114	74.000
125	6.250	20.505	88.690	88.722	0.855	5.140	0.964	95.100
126	6.300	20.669	60.960	61.005	1.069	7.230	1.752	95.600
127	6.350	20.833	39.780	39.847	0.892	10.800	2.239	95.600
128	6.400	20.997	28.570	28.587	0.832	2.770	2.910	90.900
129	6.450	21.161	22.260	22.225	0.658	-5.570	2.961	89.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	16.560	16.518	0.491	-6.680	2.972	88.200
131	6.550	21.489	10.990	10.946	0.340	-6.970	3.106	90.100
132	6.600	21.653	10.720	10.709	0.435	-1.710	4.062	112.300
133	6.650	21.817	12.390	12.376	0.457	-2.280	3.693	140.200
134	6.700	21.981	15.400	15.390	0.440	-1.590	2.859	205.700
135	6.750	22.145	14.310	14.296	0.410	-2.280	2.868	302.000
136	6.800	22.309	13.810	13.800	0.236	-1.650	1.710	523.700
137	6.850	22.473	16.470	16.475	0.239	0.830	1.451	831.900
138	6.900	22.638	14.380	14.388	0.308	1.330	2.141	1247.700
139	6.950	22.802	27.060	27.067	0.454	1.150	1.677	1506.500
140	7.000	22.966	16.910	16.928	0.487	2.810	2.877	1355.500
141	7.050	23.130	12.460	12.482	0.399	3.600	3.196	923.800
142	7.100	23.294	12.640	12.647	0.185	1.110	1.463	659.000
143	7.150	23.458	10.790	10.802	0.129	1.860	1.194	525.800
144	7.200	23.622	8.390	8.417	0.084	4.290	0.998	441.200
145	7.250	23.786	6.420	6.444	0.128	3.790	1.986	0.000
146	7.300	23.950	47.470	47.501	0.265	5.040	0.558	0.000
147	7.350	24.114	23.450	23.447	0.350	-0.550	1.493	0.000
148	7.400	24.278	57.680	57.690	0.465	1.630	0.806	0.000
149	7.450	24.442	100.560	100.579	0.811	3.000	0.806	0.000
150	7.500	24.606	80.150	80.167	0.766	2.760	0.956	0.000
151	7.550	24.770	7.150	7.164	0.709	2.250	9.897	0.000
152	7.600	24.934	62.610	62.620	0.832	1.660	1.329	0.000
153	7.650	25.098	37.340	37.349	0.652	1.500	1.746	0.000
154	7.700	25.262	28.640	28.659	1.669	3.030	5.824	0.000
155	7.750	25.426	94.860	94.871	1.622	1.690	1.710	0.000
156	7.800	25.590	45.620	45.626	2.503	0.970	5.486	0.000
157	7.850	25.754	26.980	26.972	0.981	-1.280	3.637	0.000
158	7.900	25.918	9.430	9.441	0.336	1.780	3.559	0.000
159	7.950	26.082	83.640	83.663	0.000	3.630	0.000	0.000
160	8.000	26.246	560.350	560.361	0.000	1.840	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221507
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-7
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-18-2014
CPT Time:	08:34
CPT File:	13-53075_GP1C-7.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722049.860
Northing / Lat:	4294183.640
Elevation:	142.710
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.140	1.139	0.001	-0.130	0.088	32.100
2	0.100	0.328	1.840	1.844	0.002	0.610	0.108	44.600
3	0.150	0.492	1.620	1.621	0.008	0.090	0.494	35.200
4	0.200	0.656	3.660	3.658	0.025	-0.400	0.684	46.100
5	0.250	0.820	4.530	4.534	0.044	0.680	0.970	61.300
6	0.300	0.984	3.450	3.461	0.081	1.750	2.340	63.400
7	0.350	1.148	1.240	1.244	0.046	0.590	3.699	66.800
8	0.400	1.312	5.880	5.890	0.090	1.580	1.528	69.100
9	0.450	1.476	4.920	4.924	0.105	0.570	2.133	79.100
10	0.500	1.640	2.750	2.751	0.133	0.110	4.835	72.900
11	0.550	1.804	2.570	2.568	0.122	-0.360	4.751	72.900
12	0.600	1.968	2.750	2.751	0.106	0.140	3.853	71.200
13	0.650	2.133	2.120	2.124	0.085	0.640	4.002	85.900
14	0.700	2.297	2.480	2.482	0.078	0.390	3.142	84.600
15	0.750	2.461	3.170	3.176	0.108	1.010	3.400	79.000
16	0.800	2.625	3.730	3.737	0.101	1.140	2.703	81.000
17	0.850	2.789	3.230	3.257	0.121	4.360	3.715	83.100
18	0.900	2.953	3.620	3.635	0.188	2.460	5.171	80.500
19	0.950	3.117	5.420	5.418	0.247	-0.330	4.559	81.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	5.630	5.632	0.369	0.300	6.552	86.200
21	1.050	3.445	12.650	12.692	0.435	6.690	3.427	69.800
22	1.100	3.609	26.100	26.285	0.414	29.680	1.575	79.600
23	1.150	3.773	35.150	35.260	0.835	17.580	2.368	54.600
24	1.200	3.937	44.140	44.207	0.952	10.810	2.153	49.800
25	1.250	4.101	47.470	47.577	0.843	17.210	1.772	32.700
26	1.300	4.265	67.670	67.743	0.767	11.730	1.132	116.300
27	1.350	4.429	220.920	220.994	1.224	11.820	0.554	21.200
28	1.400	4.593	168.540	168.577	1.593	5.860	0.945	40.100
29	1.450	4.757	89.400	89.472	1.015	11.480	1.134	29.700
30	1.500	4.921	96.960	96.993	0.851	5.250	0.877	59.500
31	1.550	5.085	15.850	15.839	0.573	-1.770	3.618	31.500
32	1.600	5.249	10.830	10.833	0.449	0.530	4.145	38.500
33	1.650	5.413	38.890	38.893	0.418	0.480	1.075	47.500
34	1.700	5.577	42.700	42.712	0.589	1.980	1.379	59.700
35	1.750	5.741	28.180	28.197	0.444	2.720	1.575	56.400
36	1.800	5.905	15.240	15.271	0.482	5.020	3.156	55.500
37	1.850	6.069	9.780	9.770	0.310	-1.620	3.173	40.700
38	1.900	6.234	14.280	14.262	0.401	-2.960	2.812	43.600
39	1.950	6.398	25.930	25.943	0.519	2.080	2.001	36.000
40	2.000	6.562	14.700	14.705	0.536	0.860	3.645	35.700
41	2.050	6.726	10.440	10.473	0.627	5.230	5.987	26.200
42	2.100	6.890	11.800	11.827	0.558	4.390	4.718	35.400
43	2.150	7.054	16.950	16.941	0.556	-1.380	3.282	21.500
44	2.200	7.218	6.260	6.281	0.438	3.360	6.973	32.300
45	2.250	7.382	4.170	4.172	0.289	0.300	6.927	37.600
46	2.300	7.546	10.410	10.420	0.176	1.560	1.689	37.500
47	2.350	7.710	18.520	18.529	0.222	1.410	1.198	36.200
48	2.400	7.874	13.220	13.509	0.261	46.290	1.932	39.800
49	2.450	8.038	8.380	8.420	0.232	6.470	2.755	57.300
50	2.500	8.202	11.480	11.521	0.187	6.580	1.623	65.500
51	2.550	8.366	18.680	18.719	0.211	6.270	1.127	69.100
52	2.600	8.530	28.100	28.140	0.241	6.400	0.856	77.800
53	2.650	8.694	41.450	41.467	0.366	2.720	0.883	75.500
54	2.700	8.858	49.660	49.673	0.538	2.040	1.083	83.600
55	2.750	9.022	48.520	48.540	0.768	3.250	1.582	87.700
56	2.800	9.186	36.110	36.114	0.889	0.720	2.462	90.400
57	2.850	9.350	27.950	27.970	0.754	3.150	2.696	93.300
58	2.900	9.514	25.350	25.402	0.595	8.390	2.342	89.100
59	2.950	9.678	20.450	20.531	0.409	13.020	1.992	98.900
60	3.000	9.842	16.400	16.446	0.361	7.440	2.195	93.000
61	3.050	10.006	14.070	14.110	0.359	6.390	2.544	92.300
62	3.100	10.170	15.970	16.000	0.304	4.800	1.900	95.600
63	3.150	10.335	16.370	16.400	0.291	4.790	1.774	90.200
64	3.200	10.499	13.480	13.486	0.291	1.020	2.158	60.600
65	3.250	10.663	11.480	11.467	0.311	-2.080	2.712	54.400
66	3.300	10.827	12.520	12.516	0.205	-0.620	1.638	51.600
67	3.350	10.991	50.290	50.303	0.276	2.060	0.549	41.200
68	3.400	11.155	37.660	37.664	0.310	0.570	0.823	33.400
69	3.450	11.319	20.680	20.681	0.436	0.200	2.108	33.400
70	3.500	11.483	12.000	11.981	0.313	-2.990	2.612	24.500
71	3.550	11.647	23.490	23.509	0.273	3.020	1.161	24.900
72	3.600	11.811	16.210	16.212	0.293	0.340	1.807	20.500
73	3.650	11.975	12.700	12.712	0.144	1.930	1.133	29.100
74	3.700	12.139	19.260	19.265	0.184	0.840	0.955	18.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	16.700	16.714	0.152	2.320	0.909	22.900
76	3.800	12.467	19.930	19.947	0.380	2.660	1.905	12.500
77	3.850	12.631	23.340	23.365	0.433	3.950	1.853	9.400
78	3.900	12.795	17.440	17.427	0.332	-2.140	1.905	11.300
79	3.950	12.959	13.830	13.841	0.338	1.830	2.442	8.000
80	4.000	13.123	19.680	19.679	0.329	-0.170	1.672	13.400
81	4.050	13.287	39.340	39.345	0.356	0.830	0.905	10.700
82	4.100	13.451	43.190	43.188	1.033	-0.330	2.392	11.000
83	4.150	13.615	50.000	50.050	0.866	7.970	1.730	12.100
84	4.200	13.779	30.770	30.777	0.567	1.160	1.842	17.000
85	4.250	13.943	25.160	25.165	0.180	0.850	0.715	16.000
86	4.300	14.107	33.340	33.351	0.328	1.690	0.983	28.900
87	4.350	14.271	29.000	29.028	0.305	4.510	1.051	23.500
88	4.400	14.436	44.280	44.309	0.463	4.690	1.045	13.400
89	4.450	14.600	58.260	58.280	0.728	3.280	1.249	44.800
90	4.500	14.764	68.910	68.914	0.876	0.680	1.271	22.700
91	4.550	14.928	81.490	81.503	1.220	2.020	1.497	20.100
92	4.600	15.092	74.780	74.817	1.338	5.980	1.788	31.700
93	4.650	15.256	79.360	79.399	1.470	6.220	1.851	35.500
94	4.700	15.420	53.310	53.343	1.285	5.280	2.409	45.100
95	4.750	15.584	25.070	25.128	1.113	9.290	4.429	42.400
96	4.800	15.748	21.020	21.206	0.823	29.760	3.881	45.000
97	4.850	15.912	42.480	42.835	0.935	56.800	2.183	32.600
98	4.900	16.076	50.080	50.160	0.910	12.880	1.814	26.300
99	4.950	16.240	60.020	60.128	1.472	17.370	2.448	20.600
100	5.000	16.404	58.540	58.578	1.341	6.070	2.289	19.900
101	5.050	16.568	54.840	54.906	0.985	10.520	1.794	16.200
102	5.100	16.732	39.020	38.994	0.692	-4.150	1.775	19.500
103	5.150	16.896	12.460	12.463	0.566	0.410	4.542	18.200
104	5.200	17.060	13.050	13.080	0.511	4.830	3.907	16.000
105	5.250	17.224	18.780	18.833	0.492	8.510	2.612	21.700
106	5.300	17.388	26.180	26.226	0.760	7.400	2.898	15.800
107	5.350	17.552	59.020	59.023	1.004	0.520	1.701	16.700
108	5.400	17.716	68.550	68.572	1.232	3.500	1.797	23.700
109	5.450	17.880	47.130	47.143	1.219	2.130	2.586	34.400
110	5.500	18.044	51.420	51.479	1.388	9.390	2.696	29.700
111	5.550	18.208	31.600	31.626	0.959	4.230	3.032	36.800
112	5.600	18.372	15.570	15.597	0.647	4.300	4.148	50.100
113	5.650	18.537	19.570	19.700	0.596	20.890	3.025	63.400
114	5.700	18.701	67.640	67.720	0.651	12.860	0.961	82.100
115	5.750	18.865	95.970	95.996	0.894	4.150	0.931	77.400
116	5.800	19.029	98.870	98.879	1.088	1.520	1.100	72.900
117	5.850	19.193	80.920	80.920	1.155	-0.010	1.427	61.200
118	5.900	19.357	58.700	58.692	1.259	-1.260	2.145	59.900
119	5.950	19.521	44.470	44.459	1.055	-1.810	2.373	47.900
120	6.000	19.685	29.620	29.600	0.900	-3.280	3.041	44.400
121	6.050	19.849	48.760	48.742	0.744	-2.880	1.526	46.000
122	6.100	20.013	58.760	58.772	0.973	1.900	1.656	48.100
123	6.150	20.177	64.490	64.486	1.569	-0.680	2.433	54.100
124	6.200	20.341	42.900	42.983	1.319	13.260	3.069	54.800
125	6.250	20.505	71.490	71.526	1.511	5.710	2.113	52.400
126	6.300	20.669	86.980	86.998	0.909	2.880	1.045	63.800
127	6.350	20.833	85.110	85.151	0.717	6.510	0.842	61.500
128	6.400	20.997	40.050	40.069	0.472	3.080	1.178	62.700
129	6.450	21.161	46.650	46.649	0.575	-0.170	1.233	63.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	42.660	42.660	0.710	0.050	1.664	75.500
131	6.550	21.489	33.580	33.659	0.719	12.700	2.136	73.000
132	6.600	21.653	49.240	49.287	0.645	7.450	1.309	76.100
133	6.650	21.817	38.720	38.751	0.667	4.970	1.721	69.900
134	6.700	21.981	21.970	21.989	0.631	3.060	2.870	73.400
135	6.750	22.145	39.240	39.262	0.348	3.480	0.886	77.900
136	6.800	22.309	41.520	41.527	0.491	1.090	1.182	84.100
137	6.850	22.473	28.300	28.321	0.361	3.330	1.275	83.600
138	6.900	22.638	29.670	29.686	0.302	2.550	1.017	84.300
139	6.950	22.802	36.460	36.479	0.333	3.050	0.913	80.300
140	7.000	22.966	44.550	44.577	0.387	4.290	0.868	82.700
141	7.050	23.130	52.330	52.363	0.451	5.270	0.861	76.500
142	7.100	23.294	59.860	59.907	0.564	7.570	0.941	82.600
143	7.150	23.458	71.520	71.589	0.657	10.980	0.918	81.100
144	7.200	23.622	76.500	76.560	0.685	9.690	0.895	75.300
145	7.250	23.786	75.230	75.281	0.729	8.230	0.968	73.000
146	7.300	23.950	70.660	70.707	0.846	7.500	1.196	69.400
147	7.350	24.114	72.800	72.846	1.987	7.380	2.728	67.500
148	7.400	24.278	89.120	89.169	2.196	7.910	2.463	59.600
149	7.450	24.442	100.390	100.486	1.389	15.360	1.382	44.000
150	7.500	24.606	211.870	211.991	1.444	19.320	0.681	33.600
151	7.550	24.770	291.110	291.168	1.396	9.310	0.479	32.800
152	7.600	24.934	274.090	274.131	1.894	6.640	0.691	30.600
153	7.650	25.098	226.650	226.724	1.300	11.800	0.573	43.600
154	7.700	25.262	190.440	190.485	2.249	7.280	1.181	34.800
155	7.750	25.426	224.920	224.953	1.689	5.260	0.751	39.800
156	7.800	25.590	261.770	261.773	1.544	0.510	0.590	43.600
157	7.850	25.754	375.010	375.059	3.257	7.820	0.868	53.300
158	7.900	25.918	317.780	317.804	3.755	3.920	1.182	53.700
159	7.950	26.082	305.640	305.701	4.391	9.750	1.436	46.000
160	8.000	26.246	244.050	244.192	4.297	22.820	1.760	53.300
161	8.050	26.410	192.730	192.950	2.885	35.220	1.495	55.200
162	8.100	26.574	172.450	172.474	3.156	3.790	1.830	55.900
163	8.150	26.739	165.170	165.163	3.762	-1.140	2.278	63.800
164	8.200	26.903	113.990	113.998	3.890	1.300	3.412	63.500
165	8.250	27.067	79.300	79.476	3.681	28.230	4.632	63.300
166	8.300	27.231	97.290	97.427	4.331	21.890	4.445	63.400
167	8.350	27.395	108.600	108.660	4.244	9.600	3.906	55.800
168	8.400	27.559	114.680	114.859	3.934	28.660	3.425	69.400
169	8.450	27.723	122.160	122.223	3.159	10.170	2.585	86.200
170	8.500	27.887	71.640	71.642	2.500	0.340	3.490	98.500
171	8.550	28.051	34.020	34.131	2.163	17.740	6.337	99.100
172	8.600	28.215	31.000	31.416	1.503	66.710	4.784	97.400
173	8.650	28.379	30.560	30.889	0.869	52.780	2.813	113.200
174	8.700	28.543	28.970	29.214	0.926	39.130	3.170	114.600
175	8.750	28.707	27.230	27.404	0.982	27.950	3.583	101.500
176	8.800	28.871	26.200	26.326	1.020	20.120	3.875	93.000
177	8.850	29.035	24.480	24.594	1.013	18.330	4.119	90.000
178	8.900	29.199	23.910	24.018	0.957	17.320	3.984	101.600
179	8.950	29.363	22.880	22.978	0.943	15.690	4.104	99.800
180	9.000	29.527	21.440	21.531	0.914	14.640	4.245	105.900
181	9.050	29.691	20.170	20.253	0.885	13.240	4.370	100.800
182	9.100	29.855	20.560	20.644	0.862	13.510	4.175	99.800
183	9.150	30.019	20.750	20.820	0.827	11.220	3.972	108.300
184	9.200	30.183	21.030	21.076	0.762	7.380	3.615	108.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	21.680	21.702	0.719	3.470	3.313	116.100
186	9.300	30.511	24.750	24.758	0.607	1.290	2.452	93.100
187	9.350	30.675	29.630	29.625	0.578	-0.810	1.951	85.000
188	9.400	30.840	32.220	32.213	0.577	-1.160	1.791	102.000
189	9.450	31.004	33.020	33.014	0.443	-0.890	1.342	86.400
190	9.500	31.168	33.900	33.897	0.355	-0.490	1.047	102.700
191	9.550	31.332	32.870	32.872	0.297	0.390	0.903	97.300
192	9.600	31.496	36.490	36.491	0.354	0.200	0.970	97.800
193	9.650	31.660	37.920	37.921	0.507	0.230	1.337	93.000
194	9.700	31.824	32.580	32.607	0.499	4.260	1.530	96.700
195	9.750	31.988	24.350	24.429	0.361	12.610	1.478	86.900
196	9.800	32.152	18.990	19.122	0.320	21.190	1.673	91.500
197	9.850	32.316	14.450	14.608	0.331	25.350	2.266	90.400
198	9.900	32.480	14.310	14.456	0.394	23.440	2.725	91.800
199	9.950	32.644	20.330	20.472	0.475	22.690	2.320	87.800
200	10.000	32.808	32.350	32.451	0.660	16.230	2.034	87.600
201	10.050	32.972	74.350	74.436	0.908	13.730	1.220	88.700
202	10.100	33.136	187.620	187.699	1.527	12.640	0.814	84.400
203	10.150	33.300	283.710	283.790	2.256	12.780	0.795	92.400
204	10.200	33.464	338.470	338.595	3.182	19.960	0.940	98.800
205	10.250	33.628	369.960	370.107	3.918	23.590	1.059	0.000
206	10.300	33.792	386.960	387.137	5.191	28.290	1.341	0.000
207	10.350	33.956	400.360	400.528	5.260	26.880	1.313	0.000
208	10.400	34.120	340.240	340.437	5.674	31.550	1.667	0.000
209	10.450	34.284	377.570	377.760	5.482	30.440	1.451	0.000
210	10.500	34.448	346.110	346.274	5.362	26.330	1.548	0.000
211	10.550	34.612	297.290	297.448	4.963	25.310	1.669	0.000
212	10.600	34.776	278.180	278.315	4.466	21.640	1.605	0.000
213	10.650	34.941	265.240	265.352	4.374	18.010	1.648	0.000
214	10.700	35.105	224.040	224.148	4.248	17.230	1.895	0.000
215	10.750	35.269	179.340	179.434	3.654	15.120	2.036	0.000
216	10.800	35.433	167.700	167.770	2.879	11.260	1.716	0.000
217	10.850	35.597	190.350	190.424	2.595	11.820	1.363	0.000
218	10.900	35.761	251.460	251.549	3.231	14.300	1.284	0.000
219	10.950	35.925	328.550	328.710	0.000	25.690	0.000	0.000
220	11.000	36.089	350.450	350.621	0.000	27.350	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221509
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-8
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-19-2014
CPT Time:	15:58
CPT File:	13-53075_GP1C-8.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722066.339
Northing / Lat:	4294208.645
Elevation:	149.612
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.120	1.117	0.009	-0.460	0.806	28.200
2	0.100	0.328	5.970	5.977	0.006	1.150	0.100	32.600
3	0.150	0.492	8.500	8.528	0.013	4.430	0.152	44.200
4	0.200	0.656	25.670	25.688	0.013	2.830	0.051	39.500
5	0.250	0.820	31.700	31.710	0.009	1.600	0.028	47.000
6	0.300	0.984	44.760	44.765	0.010	0.760	0.022	59.200
7	0.350	1.148	27.620	27.629	0.012	1.450	0.043	64.700
8	0.400	1.312	16.570	16.573	0.010	0.410	0.060	61.000
9	0.450	1.476	11.370	11.368	0.011	-0.370	0.097	83.700
10	0.500	1.640	10.890	10.889	0.008	-0.110	0.073	83.300
11	0.550	1.804	16.480	16.481	0.013	0.230	0.079	92.900
12	0.600	1.968	23.710	23.699	0.008	-1.720	0.034	93.200
13	0.650	2.133	33.350	33.328	0.011	-3.450	0.033	89.800
14	0.700	2.297	42.450	42.415	0.009	-5.570	0.021	90.300
15	0.750	2.461	46.680	46.637	0.191	-6.900	0.410	93.600
16	0.800	2.625	48.190	48.141	0.369	-7.800	0.766	95.200
17	0.850	2.789	45.530	45.481	0.402	-7.870	0.884	96.200
18	0.900	2.953	50.410	50.358	0.432	-8.310	0.858	102.400
19	0.950	3.117	55.660	55.620	0.402	-6.480	0.723	91.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	50.280	50.274	0.419	-0.990	0.833	95.600
21	1.050	3.445	36.220	36.213	0.499	-1.100	1.378	87.200
22	1.100	3.609	27.940	27.936	0.243	-0.680	0.870	69.100
23	1.150	3.773	26.190	26.188	0.456	-0.330	1.741	60.200
24	1.200	3.937	39.650	39.648	0.335	-0.350	0.845	65.900
25	1.250	4.101	14.060	14.060	0.277	0.040	1.970	58.800
26	1.300	4.265	47.780	47.772	0.212	-1.250	0.444	49.900
27	1.350	4.429	86.880	86.876	0.368	-0.680	0.424	51.100
28	1.400	4.593	113.970	113.969	0.820	-0.230	0.719	59.000
29	1.450	4.757	132.590	132.590	0.599	0.000	0.452	59.300
30	1.500	4.921	119.830	119.827	1.222	-0.470	1.020	50.700
31	1.550	5.085	157.400	157.399	1.064	-0.180	0.676	53.100
32	1.600	5.249	199.860	199.858	1.021	-0.340	0.511	42.600
33	1.650	5.413	218.760	218.788	1.357	4.550	0.620	44.800
34	1.700	5.577	20.060	20.116	1.179	8.900	5.861	37.800
35	1.750	5.741	28.440	28.477	1.194	5.890	4.193	47.100
36	1.800	5.905	29.680	29.701	0.206	3.440	0.694	39.600
37	1.850	6.069	16.650	16.670	0.373	3.270	2.237	31.700
38	1.900	6.234	32.210	32.216	0.420	0.900	1.304	47.600
39	1.950	6.398	29.140	29.149	0.343	1.400	1.177	38.800
40	2.000	6.562	62.090	62.102	0.739	1.860	1.190	72.800
41	2.050	6.726	79.640	79.657	0.773	2.760	0.970	71.500
42	2.100	6.890	17.880	17.905	0.844	4.040	4.714	75.300
43	2.150	7.054	21.310	21.334	0.456	3.800	2.137	82.300
44	2.200	7.218	18.630	18.651	0.301	3.350	1.614	85.700
45	2.250	7.382	16.640	16.657	0.239	2.730	1.435	100.900
46	2.300	7.546	14.240	14.254	0.208	2.260	1.459	92.200
47	2.350	7.710	13.070	13.082	0.235	1.900	1.796	81.000
48	2.400	7.874	15.230	15.241	0.233	1.710	1.529	93.500
49	2.450	8.038	31.080	31.094	0.220	2.230	0.708	74.500
50	2.500	8.202	34.770	34.783	0.371	2.130	1.067	71.000
51	2.550	8.366	26.100	26.118	0.465	2.900	1.780	59.400
52	2.600	8.530	21.800	21.816	0.589	2.520	2.700	55.300
53	2.650	8.694	27.970	27.983	0.581	2.110	2.076	54.700
54	2.700	8.858	29.020	29.034	0.773	2.190	2.662	38.700
55	2.750	9.022	50.440	50.450	1.122	1.570	2.224	34.200
56	2.800	9.186	36.420	36.421	1.054	0.240	2.894	41.000
57	2.850	9.350	43.740	43.736	1.349	-0.580	3.084	41.400
58	2.900	9.514	41.560	41.595	0.896	5.540	2.154	43.600
59	2.950	9.678	64.920	64.953	1.083	5.270	1.667	49.700
60	3.000	9.842	51.200	51.213	1.103	2.060	2.154	52.500
61	3.050	10.006	29.400	29.420	1.176	3.160	3.997	50.100
62	3.100	10.170	42.900	42.921	0.973	3.420	2.267	62.900
63	3.150	10.335	26.770	26.775	0.808	0.730	3.018	69.400
64	3.200	10.499	16.500	16.517	0.715	2.670	4.329	77.000
65	3.250	10.663	13.320	13.349	0.450	4.710	3.371	77.500
66	3.300	10.827	16.780	16.792	0.543	1.890	3.234	80.700
67	3.350	10.991	15.740	15.721	0.518	-2.980	3.295	68.600
68	3.400	11.155	9.820	9.812	0.507	-1.230	5.167	56.100
69	3.450	11.319	10.620	10.617	0.232	-0.430	2.185	51.400
70	3.500	11.483	34.730	34.740	0.443	1.630	1.275	48.300
71	3.550	11.647	68.050	68.057	0.754	1.160	1.108	48.900
72	3.600	11.811	44.540	44.547	0.798	1.140	1.791	42.300
73	3.650	11.975	38.640	38.647	0.799	1.130	2.067	44.900
74	3.700	12.139	56.350	56.354	0.509	0.590	0.903	34.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	24.000	24.002	0.287	0.300	1.196	30.600
76	3.800	12.467	20.560	20.565	0.316	0.880	1.537	29.100
77	3.850	12.631	21.150	21.161	0.165	1.750	0.780	27.300
78	3.900	12.795	18.640	18.652	0.178	1.890	0.954	23.100
79	3.950	12.959	23.460	23.471	0.255	1.780	1.086	29.500
80	4.000	13.123	54.550	54.565	0.877	2.420	1.607	28.200
81	4.050	13.287	81.300	81.303	0.756	0.520	0.930	40.800
82	4.100	13.451	24.010	24.004	1.075	-0.990	4.478	45.200
83	4.150	13.615	26.980	26.990	0.725	1.560	2.686	60.300
84	4.200	13.779	17.360	17.641	0.460	44.950	2.608	64.500
85	4.250	13.943	13.840	14.066	0.279	36.210	1.983	69.100
86	4.300	14.107	18.650	18.754	0.209	16.610	1.114	67.200
87	4.350	14.271	14.740	14.768	0.263	4.540	1.781	62.500
88	4.400	14.436	34.500	34.505	0.667	0.800	1.933	45.600
89	4.450	14.600	25.140	25.178	0.595	6.140	2.363	36.800
90	4.500	14.764	16.240	16.313	0.696	11.630	4.267	18.100
91	4.550	14.928	29.730	29.768	0.406	6.140	1.364	17.400
92	4.600	15.092	26.950	26.973	0.608	3.750	2.254	18.000
93	4.650	15.256	29.530	29.549	0.577	3.110	1.953	12.100
94	4.700	15.420	31.220	31.226	0.250	0.980	0.801	18.400
95	4.750	15.584	11.840	11.838	0.285	-0.310	2.407	12.100
96	4.800	15.748	14.540	14.559	0.183	2.980	1.257	15.400
97	4.850	15.912	34.210	34.218	0.311	1.240	0.909	17.000
98	4.900	16.076	249.390	249.401	1.087	1.810	0.436	16.700
99	4.950	16.240	367.720	367.770	0.660	8.030	0.179	18.200
100	5.000	16.404	423.610	423.680	1.101	11.170	0.260	16.100
101	5.050	16.568	99.330	99.344	0.259	2.240	0.261	17.900
102	5.100	16.732	36.740	36.749	0.329	1.370	0.895	14.000
103	5.150	16.896	49.510	49.559	0.802	7.820	1.618	18.600
104	5.200	17.060	41.410	41.451	1.197	6.590	2.888	21.300
105	5.250	17.224	56.010	56.028	1.326	2.890	2.367	22.400
106	5.300	17.388	33.980	34.011	1.264	5.010	3.716	20.100
107	5.350	17.552	35.320	35.332	1.236	1.980	3.498	35.800
108	5.400	17.716	19.440	19.457	0.647	2.670	3.325	37.200
109	5.450	17.880	8.450	8.463	0.386	2.080	4.561	36.400
110	5.500	18.044	8.590	8.636	0.252	7.300	2.918	48.500
111	5.550	18.208	36.280	36.426	0.604	23.450	1.658	65.400
112	5.600	18.372	50.090	50.140	0.685	7.990	1.366	57.200
113	5.650	18.537	42.590	42.621	0.849	4.900	1.992	65.600
114	5.700	18.701	47.130	47.155	0.587	3.970	1.245	75.100
115	5.750	18.865	37.680	37.692	0.707	1.880	1.876	62.500
116	5.800	19.029	33.140	33.147	0.690	1.120	2.082	62.200
117	5.850	19.193	27.520	27.532	0.641	1.990	2.328	52.200
118	5.900	19.357	23.820	23.842	1.365	3.510	5.725	60.300
119	5.950	19.521	37.690	37.713	0.498	3.700	1.320	61.200
120	6.000	19.685	82.590	82.587	1.345	-0.540	1.629	74.700
121	6.050	19.849	67.580	67.576	1.282	-0.710	1.897	58.100
122	6.100	20.013	92.480	92.484	1.764	0.580	1.907	43.300
123	6.150	20.177	57.840	57.853	1.552	2.140	2.683	41.500
124	6.200	20.341	42.390	42.409	1.291	3.020	3.044	37.000
125	6.250	20.505	28.310	28.327	0.668	2.680	2.358	42.300
126	6.300	20.669	22.660	22.669	0.747	1.510	3.295	51.100
127	6.350	20.833	22.770	22.786	0.744	2.510	3.265	64.800
128	6.400	20.997	21.360	21.402	0.858	6.700	4.009	65.100
129	6.450	21.161	27.450	27.465	0.616	2.340	2.243	59.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	40.690	40.696	0.863	0.940	2.121	39.400
131	6.550	21.489	76.080	76.085	1.142	0.850	1.501	36.400
132	6.600	21.653	48.190	48.190	1.043	-0.070	2.164	37.900
133	6.650	21.817	33.260	33.263	0.684	0.460	2.056	27.100
134	6.700	21.981	20.570	20.572	0.511	0.370	2.484	24.700
135	6.750	22.145	25.780	25.782	0.707	0.390	2.742	23.600
136	6.800	22.309	26.730	26.736	0.688	0.960	2.573	24.400
137	6.850	22.473	51.460	51.465	0.973	0.830	1.891	34.300
138	6.900	22.638	56.950	56.959	0.814	1.510	1.429	28.900
139	6.950	22.802	25.280	25.291	0.812	1.700	3.211	25.700
140	7.000	22.966	34.720	34.730	0.508	1.620	1.463	29.600
141	7.050	23.130	20.520	20.523	0.553	0.490	2.695	39.600
142	7.100	23.294	43.630	43.632	0.674	0.360	1.545	51.200
143	7.150	23.458	57.380	57.381	1.079	0.090	1.880	55.900
144	7.200	23.622	89.690	89.689	1.234	-0.180	1.376	58.200
145	7.250	23.786	37.790	37.803	1.133	2.010	2.997	77.700
146	7.300	23.950	48.000	48.008	0.895	1.240	1.864	85.400
147	7.350	24.114	43.810	43.815	0.769	0.810	1.755	73.600
148	7.400	24.278	54.700	54.709	0.868	1.470	1.587	88.000
149	7.450	24.442	70.410	70.419	0.960	1.480	1.363	83.100
150	7.500	24.606	62.340	62.342	1.120	0.340	1.797	70.900
151	7.550	24.770	49.860	49.854	1.121	-1.030	2.249	58.200
152	7.600	24.934	50.810	50.801	1.059	-1.480	2.085	47.400
153	7.650	25.098	83.970	83.963	1.459	-1.060	1.738	41.600
154	7.700	25.262	86.020	86.012	1.780	-1.310	2.069	29.700
155	7.750	25.426	45.220	45.217	1.494	-0.530	3.304	26.800
156	7.800	25.590	89.750	89.734	1.154	-2.570	1.286	22.400
157	7.850	25.754	84.980	84.995	1.676	2.420	1.972	15.100
158	7.900	25.918	127.190	127.188	2.925	-0.260	2.300	17.500
159	7.950	26.082	165.270	165.267	1.738	-0.440	1.052	15.200
160	8.000	26.246	68.200	68.198	0.361	-0.400	0.529	16.800
161	8.050	26.410	75.130	75.144	0.403	2.180	0.536	14.100
162	8.100	26.574	86.540	86.544	1.082	0.710	1.250	21.800
163	8.150	26.739	43.390	43.394	0.754	0.590	1.738	17.200
164	8.200	26.903	73.080	73.077	0.577	-0.540	0.790	14.800
165	8.250	27.067	50.770	50.764	1.181	-0.950	2.326	28.000
166	8.300	27.231	34.110	34.109	1.886	-0.090	5.529	16.800
167	8.350	27.395	73.290	73.288	0.734	-0.380	1.002	29.100
168	8.400	27.559	59.110	59.116	0.027	1.020	0.046	26.100
169	8.450	27.723	19.090	19.093	0.618	0.510	3.237	38.500
170	8.500	27.887	33.230	33.253	0.194	3.670	0.583	53.200
171	8.550	28.051	60.780	60.780	0.486	-0.020	0.800	56.700
172	8.600	28.215	62.560	62.568	0.538	1.240	0.860	63.200
173	8.650	28.379	41.420	41.438	0.613	2.900	1.479	63.800
174	8.700	28.543	38.270	38.286	0.809	2.510	2.113	90.700
175	8.750	28.707	33.760	33.778	0.762	2.930	2.256	85.400
176	8.800	28.871	32.320	32.348	0.755	4.490	2.334	101.500
177	8.850	29.035	34.400	34.419	0.788	3.060	2.289	91.400
178	8.900	29.199	35.470	35.489	0.800	2.970	2.254	90.300
179	8.950	29.363	35.900	35.926	0.859	4.230	2.391	88.300
180	9.000	29.527	35.090	35.113	0.884	3.690	2.518	90.300
181	9.050	29.691	31.230	31.257	0.853	4.280	2.729	88.100
182	9.100	29.855	31.820	31.846	0.820	4.210	2.575	75.600
183	9.150	30.019	31.480	31.514	0.855	5.470	2.713	74.400
184	9.200	30.183	32.690	32.732	1.413	6.650	4.317	64.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	56.870	56.909	1.187	6.290	2.086	54.300
186	9.300	30.511	114.470	114.489	1.549	3.020	1.353	39.600
187	9.350	30.675	138.390	138.408	2.368	2.940	1.711	42.600
188	9.400	30.840	144.360	144.398	2.429	6.130	1.682	33.300
189	9.450	31.004	169.430	169.475	1.677	7.130	0.990	44.700
190	9.500	31.168	165.830	165.876	1.065	7.320	0.642	51.000
191	9.550	31.332	145.420	145.438	0.774	2.900	0.532	62.600
192	9.600	31.496	77.070	77.092	1.398	3.600	1.813	66.000
193	9.650	31.660	52.860	52.909	1.298	7.800	2.453	57.800
194	9.700	31.824	55.200	55.253	1.285	8.460	2.326	57.700
195	9.750	31.988	77.320	77.384	1.657	10.220	2.141	52.600
196	9.800	32.152	109.870	109.938	1.985	10.920	1.806	68.000
197	9.850	32.316	119.130	119.193	2.364	10.080	1.983	84.700
198	9.900	32.480	83.590	83.654	2.015	10.190	2.409	81.000
199	9.950	32.644	80.810	80.871	1.728	9.770	2.137	55.700
200	10.000	32.808	97.640	97.697	3.312	9.150	3.390	61.100
201	10.050	32.972	173.080	173.135	3.112	8.850	1.797	55.800
202	10.100	33.136	109.350	109.353	2.385	0.420	2.181	53.700
203	10.150	33.300	78.060	78.082	1.141	3.500	1.461	58.600
204	10.200	33.464	73.910	73.938	1.371	4.470	1.854	55.400
205	10.250	33.628	91.580	91.607	1.137	4.350	1.241	61.900
206	10.300	33.792	29.080	29.111	1.080	5.040	3.710	75.800
207	10.350	33.956	25.840	25.889	0.940	7.880	3.631	82.500
208	10.400	34.120	38.420	38.477	1.116	9.070	2.900	66.500
209	10.450	34.284	56.940	57.003	1.201	10.140	2.107	83.700
210	10.500	34.448	30.600	30.673	1.132	11.620	3.691	86.000
211	10.550	34.612	30.940	31.017	0.836	12.290	2.695	91.100
212	10.600	34.776	42.130	42.215	0.813	13.540	1.926	84.400
213	10.650	34.941	37.700	37.784	0.948	13.430	2.509	88.800
214	10.700	35.105	32.230	32.317	0.993	13.970	3.073	88.600
215	10.750	35.269	38.630	38.720	1.083	14.490	2.797	77.200
216	10.800	35.433	67.840	67.934	1.486	15.020	2.187	83.600
217	10.850	35.597	82.580	82.669	1.374	14.300	1.662	86.000
218	10.900	35.761	116.460	116.578	2.032	18.870	1.743	84.800
219	10.950	35.925	136.230	136.333	2.540	16.550	1.863	77.000
220	11.000	36.089	112.860	112.959	2.856	15.890	2.528	68.900
221	11.050	36.253	83.640	83.731	2.451	14.570	2.927	66.700
222	11.100	36.417	65.490	65.572	2.052	13.180	3.129	59.900
223	11.150	36.581	62.520	62.592	1.706	11.480	2.726	47.300
224	11.200	36.745	54.300	54.369	1.442	10.980	2.652	49.200
225	11.250	36.909	72.420	72.482	1.964	9.920	2.710	54.000
226	11.300	37.073	99.620	99.677	1.807	9.190	1.813	56.900
227	11.350	37.237	46.450	46.503	1.886	8.470	4.056	67.900
228	11.400	37.401	62.090	62.150	1.226	9.690	1.973	75.300
229	11.450	37.565	78.410	78.471	1.173	9.760	1.495	69.300
230	11.500	37.729	79.740	79.797	0.934	9.160	1.170	61.200
231	11.550	37.893	60.010	60.065	1.199	8.860	1.996	61.000
232	11.600	38.057	78.310	78.357	1.013	7.550	1.293	47.800
233	11.650	38.221	84.350	84.388	0.714	6.130	0.846	40.900
234	11.700	38.385	108.980	109.022	1.771	6.670	1.624	35.700
235	11.750	38.549	102.850	102.900	1.678	8.070	1.631	35.100
236	11.800	38.713	88.250	88.276	1.920	4.210	2.175	35.300
237	11.850	38.877	108.270	108.293	1.329	3.720	1.227	26.600
238	11.900	39.042	42.280	42.303	1.133	3.700	2.678	27.200
239	11.950	39.206	56.210	56.232	0.845	3.520	1.503	24.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	43.960	43.974	0.675	2.300	1.535	29.000
241	12.050	39.534	54.030	54.037	1.202	1.050	2.224	0.000
242	12.100	39.698	66.850	66.855	0.912	0.840	1.364	0.000
243	12.150	39.862	67.620	67.622	0.617	0.390	0.912	0.000
244	12.200	40.026	92.040	92.050	0.419	1.540	0.455	0.000
245	12.250	40.190	96.920	96.936	1.580	2.590	1.630	0.000
246	12.300	40.354	83.960	83.975	1.377	2.460	1.640	0.000
247	12.350	40.518	82.610	82.622	1.054	1.990	1.276	0.000
248	12.400	40.682	45.210	45.222	1.143	1.850	2.528	0.000
249	12.450	40.846	77.120	77.134	0.547	2.200	0.709	0.000
250	12.500	41.010	189.410	189.423	0.974	2.130	0.514	0.000
251	12.550	41.174	248.030	248.045	0.799	2.480	0.322	0.000
252	12.600	41.338	159.760	159.769	1.072	1.460	0.671	0.000
253	12.650	41.502	115.660	115.671	1.375	1.750	1.189	0.000
254	12.700	41.666	88.500	88.512	1.603	1.920	1.811	0.000
255	12.750	41.830	79.130	79.142	0.000	2.000	0.000	0.000
256	12.800	41.994	349.240	349.258	0.000	2.830	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221511
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-9
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-17-2014
CPT Time:	17:13
CPT File:	13-53075_GP1C-9.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722076.861
Northing / Lat:	4294214.460
Elevation:	150.834
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	14.070	14.088	0.003	2.870	0.021	31.100
2	0.100	0.328	36.010	36.018	0.003	1.300	0.008	38.800
3	0.150	0.492	43.050	43.098	0.003	7.710	0.007	38.000
4	0.200	0.656	34.920	34.916	0.002	-0.590	0.006	43.200
5	0.250	0.820	43.890	43.904	0.001	2.270	0.002	39.100
6	0.300	0.984	102.930	102.980	0.003	8.020	0.003	48.700
7	0.350	1.148	104.950	104.985	0.002	5.660	0.002	68.500
8	0.400	1.312	93.970	95.828	0.006	297.560	0.006	53.800
9	0.450	1.476	90.810	92.443	0.007	261.540	0.008	64.900
10	0.500	1.640	70.160	70.559	0.003	63.980	0.004	60.800
11	0.550	1.804	56.650	56.691	0.208	6.570	0.367	67.100
12	0.600	1.968	47.890	47.929	0.329	6.290	0.686	59.300
13	0.650	2.133	51.920	51.928	0.559	1.330	1.076	61.000
14	0.700	2.297	53.550	53.666	0.502	18.520	0.935	66.300
15	0.750	2.461	44.500	44.499	0.601	-0.090	1.351	76.200
16	0.800	2.625	36.980	36.976	0.662	-0.710	1.790	71.100
17	0.850	2.789	26.910	26.911	0.653	0.220	2.426	77.500
18	0.900	2.953	22.490	22.506	0.633	2.550	2.813	85.300
19	0.950	3.117	16.730	16.733	0.630	0.520	3.765	88.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	15.730	15.732	0.561	0.260	3.566	83.500
21	1.050	3.445	19.960	19.959	0.670	-0.140	3.357	79.300
22	1.100	3.609	39.030	39.048	0.658	2.870	1.685	76.700
23	1.150	3.773	33.260	33.248	0.677	-1.930	2.036	62.700
24	1.200	3.937	23.570	23.541	0.564	-4.660	2.396	52.100
25	1.250	4.101	17.130	17.119	0.336	-1.800	1.963	42.000
26	1.300	4.265	18.740	18.787	0.260	7.510	1.384	36.100
27	1.350	4.429	20.750	20.755	0.409	0.760	1.971	32.100
28	1.400	4.593	60.920	60.952	0.996	5.170	1.634	26.700
29	1.450	4.757	124.360	124.408	1.186	7.660	0.953	24.100
30	1.500	4.921	74.880	75.015	1.159	21.680	1.545	17.300
31	1.550	5.085	126.850	126.862	0.778	1.960	0.613	21.900
32	1.600	5.249	162.100	162.455	1.157	56.810	0.712	18.200
33	1.650	5.413	152.000	152.005	1.439	0.850	0.947	20.700
34	1.700	5.577	68.070	68.073	1.446	0.430	2.124	23.700
35	1.750	5.741	50.050	50.232	0.724	29.200	1.441	17.900
36	1.800	5.905	46.850	46.831	0.669	-3.100	1.429	16.200
37	1.850	6.069	24.310	24.306	0.771	-0.670	3.172	14.800
38	1.900	6.234	21.110	21.135	0.845	3.940	3.998	9.300
39	1.950	6.398	27.860	27.853	0.476	-1.180	1.709	16.500
40	2.000	6.562	68.260	68.287	0.674	4.330	0.987	9.400
41	2.050	6.726	62.100	62.180	0.763	12.740	1.227	18.200
42	2.100	6.890	31.130	31.131	0.626	0.140	2.011	15.700
43	2.150	7.054	48.490	48.536	0.561	7.420	1.156	17.900
44	2.200	7.218	96.310	96.300	0.529	-1.600	0.549	16.800
45	2.250	7.382	73.680	73.837	1.089	25.130	1.475	17.400
46	2.300	7.546	60.020	60.032	1.487	1.900	2.477	12.800
47	2.350	7.710	31.760	31.769	1.383	1.430	4.353	24.000
48	2.400	7.874	28.390	28.396	2.222	0.950	7.825	15.200
49	2.450	8.038	60.440	60.467	2.455	4.330	4.060	17.000
50	2.500	8.202	116.700	116.691	1.394	-1.410	1.195	13.200
51	2.550	8.366	61.920	61.939	0.727	3.000	1.174	16.300
52	2.600	8.530	18.570	18.573	0.029	0.480	0.156	23.000
53	2.650	8.694	42.240	42.245	0.047	0.840	0.111	18.000
54	2.700	8.858	60.770	60.793	0.903	3.670	1.485	21.100
55	2.750	9.022	109.950	109.950	1.385	0.050	1.260	27.600
56	2.800	9.186	63.020	63.024	1.787	0.720	2.835	28.100
57	2.850	9.350	30.210	30.191	1.354	-3.060	4.485	38.500
58	2.900	9.514	35.990	36.008	0.968	2.840	2.688	45.100
59	2.950	9.678	52.970	53.001	0.830	4.900	1.566	50.000
60	3.000	9.842	74.100	74.090	0.399	-1.680	0.539	60.600
61	3.050	10.006	59.040	59.068	0.633	4.430	1.072	77.400
62	3.100	10.170	74.550	74.598	0.657	7.650	0.881	88.800
63	3.150	10.335	84.890	84.968	0.862	12.510	1.014	106.000
64	3.200	10.499	82.070	82.139	1.013	11.000	1.233	105.500
65	3.250	10.663	66.810	66.815	1.022	0.750	1.530	91.900
66	3.300	10.827	52.340	52.320	1.090	-3.130	2.083	95.200
67	3.350	10.991	52.420	52.425	1.077	0.870	2.054	82.000
68	3.400	11.155	58.670	58.642	0.979	-4.490	1.669	76.000
69	3.450	11.319	58.330	58.293	0.794	-5.920	1.362	78.600
70	3.500	11.483	40.520	40.518	0.366	-0.360	0.903	63.000
71	3.550	11.647	28.820	28.826	0.305	0.940	1.058	70.000
72	3.600	11.811	18.850	18.894	0.360	7.040	1.905	46.500
73	3.650	11.975	24.100	24.112	0.414	2.000	1.717	46.500
74	3.700	12.139	35.840	35.837	0.600	-0.470	1.674	49.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	32.170	32.173	0.745	0.530	2.316	47.200
76	3.800	12.467	26.990	27.004	0.743	2.280	2.751	56.700
77	3.850	12.631	37.470	37.357	0.551	-18.070	1.475	56.900
78	3.900	12.795	42.010	41.997	0.631	-2.140	1.503	62.300
79	3.950	12.959	48.380	48.368	0.585	-1.970	1.209	63.700
80	4.000	13.123	45.110	45.253	0.703	22.840	1.554	73.900
81	4.050	13.287	67.400	67.401	0.888	0.190	1.317	78.400
82	4.100	13.451	75.720	75.733	1.204	2.040	1.590	91.800
83	4.150	13.615	87.220	87.216	1.598	-0.600	1.832	89.100
84	4.200	13.779	96.200	96.157	1.901	-6.890	1.977	104.600
85	4.250	13.943	92.510	92.514	1.872	0.590	2.023	83.100
86	4.300	14.107	89.330	89.322	1.951	-1.250	2.184	83.000
87	4.350	14.271	83.420	83.401	1.905	-3.090	2.284	79.700
88	4.400	14.436	76.520	76.515	2.188	-0.860	2.860	94.400
89	4.450	14.600	71.720	71.683	2.134	-5.900	2.977	91.300
90	4.500	14.764	49.640	49.577	1.689	-10.130	3.407	90.600
91	4.550	14.928	46.340	46.350	1.262	1.580	2.723	105.100
92	4.600	15.092	29.430	29.405	1.019	-3.930	3.465	103.100
93	4.650	15.256	22.090	22.075	0.797	-2.380	3.610	76.600
94	4.700	15.420	22.910	22.897	0.592	-2.080	2.585	70.500
95	4.750	15.584	22.570	22.561	0.511	-1.490	2.265	79.000
96	4.800	15.748	24.750	24.777	0.522	4.370	2.107	73.500
97	4.850	15.912	33.350	33.389	0.810	6.320	2.426	74.500
98	4.900	16.076	34.330	34.350	0.941	3.150	2.739	61.700
99	4.950	16.240	40.690	40.643	0.975	-7.550	2.399	69.800
100	5.000	16.404	27.650	27.694	1.242	7.060	4.485	62.800
101	5.050	16.568	33.220	33.263	1.084	6.850	3.259	54.100
102	5.100	16.732	31.690	31.635	1.032	-8.880	3.262	39.200
103	5.150	16.896	27.630	27.604	0.893	-4.190	3.235	31.800
104	5.200	17.060	44.110	44.119	0.776	1.500	1.759	29.600
105	5.250	17.224	14.380	14.453	0.650	11.640	4.497	23.100
106	5.300	17.388	24.630	24.624	0.727	-1.010	2.952	23.700
107	5.350	17.552	31.770	31.786	0.801	2.570	2.520	20.400
108	5.400	17.716	24.700	24.750	0.972	8.030	3.927	20.700
109	5.450	17.880	26.340	26.403	1.024	10.130	3.878	18.200
110	5.500	18.044	24.900	25.175	0.987	44.070	3.921	12.000
111	5.550	18.208	26.130	26.485	1.229	56.830	4.640	17.600
112	5.600	18.372	30.550	31.049	1.658	79.890	5.340	24.200
113	5.650	18.537	29.520	29.924	1.988	64.710	6.644	26.000
114	5.700	18.701	33.080	33.736	1.579	105.140	4.680	40.300
115	5.750	18.865	34.560	35.083	1.406	83.730	4.008	60.600
116	5.800	19.029	37.600	37.604	1.061	0.620	2.822	72.800
117	5.850	19.193	23.310	23.490	0.778	28.910	3.312	71.300
118	5.900	19.357	23.260	23.422	0.559	26.030	2.387	75.400
119	5.950	19.521	22.840	22.903	0.704	10.140	3.074	70.700
120	6.000	19.685	20.800	20.792	0.839	-1.300	4.035	75.200
121	6.050	19.849	18.330	18.417	0.671	13.870	3.643	66.800
122	6.100	20.013	21.980	22.078	0.651	15.700	2.949	65.600
123	6.150	20.177	23.040	23.048	0.613	1.320	2.660	59.800
124	6.200	20.341	20.640	20.701	0.710	9.800	3.430	72.700
125	6.250	20.505	61.380	61.399	0.895	3.030	1.458	78.800
126	6.300	20.669	57.680	57.715	1.038	5.660	1.798	86.100
127	6.350	20.833	52.890	52.974	1.319	13.480	2.490	90.800
128	6.400	20.997	64.300	64.413	1.120	18.120	1.739	80.100
129	6.450	21.161	69.960	69.991	1.099	4.920	1.570	78.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	69.690	69.730	0.863	6.400	1.238	66.700
131	6.550	21.489	59.290	59.305	1.284	2.400	2.165	53.600
132	6.600	21.653	71.580	71.600	1.366	3.150	1.908	39.000
133	6.650	21.817	45.590	45.693	1.474	16.550	3.226	38.500
134	6.700	21.981	42.840	42.957	1.613	18.680	3.755	35.400
135	6.750	22.145	30.790	30.922	1.283	21.180	4.149	44.100
136	6.800	22.309	26.610	26.652	1.127	6.680	4.229	39.200
137	6.850	22.473	20.280	20.285	0.788	0.830	3.885	46.300
138	6.900	22.638	20.620	20.609	0.673	-1.720	3.266	57.100
139	6.950	22.802	16.270	16.328	0.694	9.330	4.250	63.000
140	7.000	22.966	22.960	23.169	0.884	33.410	3.816	75.600
141	7.050	23.130	37.320	37.321	0.926	0.150	2.481	68.000
142	7.100	23.294	30.350	30.320	1.042	-4.830	3.437	59.400
143	7.150	23.458	26.140	26.127	0.909	-2.110	3.479	47.300
144	7.200	23.622	27.110	27.139	0.825	4.620	3.040	44.900
145	7.250	23.786	40.890	40.880	0.888	-1.580	2.172	48.400
146	7.300	23.950	19.280	19.300	0.707	3.140	3.663	51.300
147	7.350	24.114	8.760	8.742	0.551	-2.900	6.303	55.700
148	7.400	24.278	13.090	13.086	0.711	-0.630	5.433	64.800
149	7.450	24.442	20.020	20.058	0.630	6.030	3.141	57.500
150	7.500	24.606	42.500	42.452	1.643	-7.670	3.870	65.400
151	7.550	24.770	62.350	62.355	1.263	0.840	2.025	79.500
152	7.600	24.934	165.690	165.687	3.562	-0.560	2.150	75.500
153	7.650	25.098	107.840	107.908	3.168	10.830	2.936	88.700
154	7.700	25.262	114.160	114.255	3.061	15.240	2.679	96.700
155	7.750	25.426	106.350	106.388	2.327	6.030	2.187	97.600
156	7.800	25.590	94.200	94.217	2.176	2.730	2.310	89.300
157	7.850	25.754	69.470	69.478	2.039	1.240	2.935	83.800
158	7.900	25.918	43.370	43.380	1.710	1.590	3.942	76.100
159	7.950	26.082	46.720	46.734	1.420	2.200	3.038	66.900
160	8.000	26.246	43.640	43.600	1.202	-6.440	2.757	66.700
161	8.050	26.410	37.930	37.948	1.135	2.940	2.991	72.900
162	8.100	26.574	31.500	31.521	1.004	3.300	3.185	60.300
163	8.150	26.739	22.700	22.675	0.786	-3.960	3.466	58.600
164	8.200	26.903	16.760	16.758	0.559	-0.300	3.336	76.500
165	8.250	27.067	14.560	14.553	0.555	-1.160	3.814	82.200
166	8.300	27.231	19.910	19.934	0.625	3.900	3.135	75.200
167	8.350	27.395	28.890	28.932	0.674	6.690	2.330	96.800
168	8.400	27.559	39.720	39.772	0.771	8.260	1.939	91.800
169	8.450	27.723	34.620	34.660	1.002	6.430	2.891	93.500
170	8.500	27.887	27.810	27.875	0.830	10.380	2.978	95.100
171	8.550	28.051	31.060	31.151	0.670	14.570	2.151	85.500
172	8.600	28.215	36.680	36.741	0.979	9.720	2.665	66.700
173	8.650	28.379	28.880	28.884	1.329	0.670	4.601	50.800
174	8.700	28.543	38.230	38.309	1.514	12.620	3.952	45.400
175	8.750	28.707	71.060	71.114	1.722	8.710	2.421	38.100
176	8.800	28.871	82.970	83.127	1.813	25.110	2.181	32.000
177	8.850	29.035	78.840	79.222	2.864	61.230	3.615	32.900
178	8.900	29.199	89.890	89.905	2.437	2.460	2.711	37.300
179	8.950	29.363	32.430	32.425	2.152	-0.820	6.637	41.800
180	9.000	29.527	64.090	64.129	1.508	6.290	2.352	56.200
181	9.050	29.691	39.380	39.563	1.223	29.390	3.091	68.100
182	9.100	29.855	13.840	14.184	0.897	55.120	6.324	71.000
183	9.150	30.019	20.180	20.771	0.533	94.610	2.566	68.600
184	9.200	30.183	24.180	24.420	0.612	38.380	2.506	62.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	26.570	26.741	0.709	27.340	2.651	41.400
186	9.300	30.511	43.940	44.062	0.994	19.560	2.256	33.500
187	9.350	30.675	52.260	52.248	1.375	-1.940	2.632	26.400
188	9.400	30.840	45.150	45.232	1.670	13.080	3.692	25.100
189	9.450	31.004	73.090	73.183	1.658	14.930	2.266	18.600
190	9.500	31.168	93.550	93.540	1.750	-1.540	1.871	18.700
191	9.550	31.332	79.980	80.080	1.759	16.070	2.197	19.400
192	9.600	31.496	64.430	64.558	1.686	20.460	2.612	14.800
193	9.650	31.660	55.720	55.812	1.652	14.710	2.960	19.400
194	9.700	31.824	59.090	59.194	0.993	16.680	1.678	16.900
195	9.750	31.988	46.260	46.333	1.224	11.640	2.642	17.700
196	9.800	32.152	56.770	56.793	0.489	3.750	0.861	22.500
197	9.850	32.316	65.740	65.739	0.853	-0.240	1.298	29.600
198	9.900	32.480	81.850	81.905	1.272	8.860	1.553	24.500
199	9.950	32.644	49.930	49.940	1.199	1.640	2.401	29.600
200	10.000	32.808	46.560	46.616	1.283	9.010	2.752	41.500
201	10.050	32.972	72.740	72.744	0.765	0.630	1.052	42.300
202	10.100	33.136	97.990	97.987	0.938	-0.530	0.957	50.200
203	10.150	33.300	48.950	48.978	0.797	4.490	1.627	64.000
204	10.200	33.464	41.520	41.583	0.929	10.170	2.234	85.700
205	10.250	33.628	36.770	36.798	0.923	4.440	2.508	84.000
206	10.300	33.792	35.130	35.154	1.102	3.800	3.135	92.400
207	10.350	33.956	38.540	38.554	0.990	2.300	2.568	78.800
208	10.400	34.120	33.550	33.562	1.056	2.000	3.146	70.000
209	10.450	34.284	36.430	36.445	1.057	2.440	2.900	50.300
210	10.500	34.448	70.680	70.696	0.989	2.510	1.399	64.000
211	10.550	34.612	98.450	98.445	1.147	-0.750	1.165	46.200
212	10.600	34.776	120.870	120.877	1.675	1.190	1.386	44.800
213	10.650	34.941	129.570	129.573	2.116	0.520	1.633	51.200
214	10.700	35.105	127.040	127.064	1.829	3.790	1.439	70.700
215	10.750	35.269	99.510	99.495	1.012	-2.450	1.017	76.400
216	10.800	35.433	40.180	40.363	0.643	29.250	1.593	76.900
217	10.850	35.597	36.690	36.774	0.428	13.510	1.164	88.500
218	10.900	35.761	75.260	75.303	0.527	6.840	0.700	79.100
219	10.950	35.925	50.730	50.768	0.435	6.070	0.857	80.200
220	11.000	36.089	33.550	33.574	0.319	3.770	0.950	80.800
221	11.050	36.253	25.010	25.023	0.241	2.160	0.963	76.200
222	11.100	36.417	20.950	20.961	0.226	1.820	1.078	62.900
223	11.150	36.581	21.770	21.777	0.441	1.140	2.025	58.700
224	11.200	36.745	41.580	41.593	0.388	2.100	0.933	61.500
225	11.250	36.909	67.190	67.198	0.678	1.220	1.009	63.500
226	11.300	37.073	64.010	64.019	0.940	1.460	1.468	51.100
227	11.350	37.237	40.930	40.957	0.858	4.310	2.095	54.000
228	11.400	37.401	47.440	47.471	0.951	5.000	2.003	49.100
229	11.450	37.565	72.090	72.136	1.411	7.370	1.956	51.200
230	11.500	37.729	134.350	134.385	2.208	5.570	1.643	52.900
231	11.550	37.893	80.820	80.821	2.252	0.120	2.786	60.300
232	11.600	38.057	69.480	69.542	1.958	9.980	2.816	73.500
233	11.650	38.221	59.770	59.773	0.832	0.510	1.392	72.300
234	11.700	38.385	73.550	73.582	0.584	5.130	0.794	85.300
235	11.750	38.549	81.640	81.668	0.655	4.540	0.802	75.700
236	11.800	38.713	87.690	87.718	0.718	4.410	0.819	87.500
237	11.850	38.877	89.840	89.871	0.935	5.040	1.040	79.300
238	11.900	39.042	90.750	90.781	1.212	4.970	1.335	92.000
239	11.950	39.206	94.530	94.557	1.378	4.360	1.457	91.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	100.620	100.644	1.605	3.920	1.595	84.900
241	12.050	39.534	111.210	111.234	1.678	3.900	1.509	94.400
242	12.100	39.698	102.060	102.082	1.711	3.550	1.676	89.000
243	12.150	39.862	95.530	95.548	1.677	2.960	1.755	73.800
244	12.200	40.026	99.360	99.382	1.808	3.460	1.819	80.800
245	12.250	40.190	108.220	108.243	2.283	3.640	2.109	80.700
246	12.300	40.354	102.510	102.555	2.724	7.170	2.656	79.700
247	12.350	40.518	109.180	109.256	2.712	12.160	2.482	87.500
248	12.400	40.682	124.660	124.712	2.466	8.360	1.977	86.800
249	12.450	40.846	121.770	121.803	2.627	5.320	2.157	72.300
250	12.500	41.010	103.260	103.301	2.981	6.550	2.886	77.400
251	12.550	41.174	102.310	102.388	2.937	12.510	2.868	54.500
252	12.600	41.338	94.140	94.185	2.677	7.190	2.842	51.500
253	12.650	41.502	110.690	110.710	3.599	3.250	3.251	34.900
254	12.700	41.666	119.550	119.595	3.267	7.180	2.732	25.700
255	12.750	41.830	109.640	109.853	4.813	34.170	4.381	28.200
256	12.800	41.994	153.660	153.656	3.951	-0.680	2.571	22.800
257	12.850	42.158	121.180	121.216	2.814	5.780	2.321	21.600
258	12.900	42.322	58.490	58.597	1.711	17.160	2.920	20.700
259	12.950	42.486	69.080	69.134	2.070	8.680	2.994	20.900
260	13.000	42.650	67.050	67.090	1.313	6.480	1.957	14.900
261	13.050	42.814	123.520	124.172	1.768	104.440	1.424	13.300
262	13.100	42.978	131.540	131.604	1.650	10.320	1.254	11.500
263	13.150	43.143	133.310	133.657	1.497	55.630	1.120	17.500
264	13.200	43.307	94.060	94.192	1.420	21.090	1.508	14.100
265	13.250	43.471	57.340	57.409	1.417	11.010	2.468	14.300
266	13.300	43.635	93.780	93.799	0.978	3.100	1.043	17.600
267	13.350	43.799	125.570	125.639	1.897	10.980	1.510	10.800
268	13.400	43.963	106.980	107.080	2.101	16.070	1.962	12.900
269	13.450	44.127	87.560	87.570	2.318	1.570	2.647	13.400
270	13.500	44.291	80.050	80.152	1.283	16.320	1.601	13.600
271	13.550	44.455	112.760	112.747	1.512	-2.070	1.341	13.500
272	13.600	44.619	80.280	80.289	1.789	1.460	2.228	15.200
273	13.650	44.783	81.380	81.428	2.007	7.730	2.465	20.300
274	13.700	44.947	50.070	50.062	1.484	-1.300	2.964	19.600
275	13.750	45.111	70.460	70.510	1.395	7.960	1.978	16.900
276	13.800	45.275	65.960	66.234	0.917	43.910	1.384	16.300
277	13.850	45.439	93.730	93.863	1.112	21.240	1.185	19.700
278	13.900	45.603	143.780	143.840	1.736	9.650	1.207	18.600
279	13.950	45.767	164.960	164.971	1.681	1.800	1.019	17.700
280	14.000	45.931	137.600	137.907	1.911	49.180	1.386	19.300
281	14.050	46.095	91.530	91.684	1.882	24.630	2.053	24.400
282	14.100	46.259	61.300	61.435	1.703	21.570	2.772	27.200
283	14.150	46.423	71.930	72.099	0.792	27.130	1.098	32.300
284	14.200	46.587	176.560	176.618	0.749	9.370	0.424	41.500
285	14.250	46.751	254.670	254.699	0.527	4.600	0.207	41.200
286	14.300	46.915	235.200	235.197	0.431	-0.530	0.183	46.400
287	14.350	47.079	150.550	150.553	1.186	0.560	0.788	50.200
288	14.400	47.244	102.650	102.646	1.089	-0.620	1.061	45.300
289	14.450	47.408	107.910	108.084	1.577	27.810	1.459	42.600
290	14.500	47.572	95.930	95.933	2.064	0.470	2.152	36.700
291	14.550	47.736	69.360	69.494	2.081	21.510	2.994	27.900
292	14.600	47.900	76.800	76.775	2.039	-3.950	2.656	29.600
293	14.650	48.064	103.880	104.267	2.346	61.960	2.250	28.200
294	14.700	48.228	125.450	125.499	2.345	7.800	1.869	33.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	75.190	75.283	2.448	14.890	3.252	23.000
296	14.800	48.556	46.640	46.703	1.876	10.070	4.017	32.200
297	14.850	48.720	58.850	59.011	1.425	25.750	2.415	35.000
298	14.900	48.884	50.860	50.861	1.696	0.110	3.335	33.500
299	14.950	49.048	113.030	113.030	2.146	0.070	1.899	36.100
300	15.000	49.212	118.200	118.188	2.222	-1.980	1.880	31.100
301	15.050	49.376	89.500	89.608	1.942	17.280	2.167	34.300
302	15.100	49.540	73.070	73.315	1.657	39.220	2.260	34.400
303	15.150	49.704	154.940	155.055	1.901	18.430	1.226	32.400
304	15.200	49.868	102.990	103.004	2.143	2.170	2.081	37.600
305	15.250	50.032	78.520	78.591	1.820	11.380	2.316	36.800
306	15.300	50.196	119.770	119.843	1.518	11.700	1.267	48.100
307	15.350	50.360	87.690	87.828	1.545	22.030	1.759	50.500
308	15.400	50.524	81.590	81.646	1.346	8.970	1.649	52.200
309	15.450	50.688	84.340	84.577	0.704	38.030	0.832	64.300
310	15.500	50.852	89.870	90.051	0.461	29.070	0.512	72.000
311	15.550	51.016	100.870	100.939	0.939	11.050	0.930	75.100
312	15.600	51.180	150.270	150.305	2.027	5.560	1.349	0.000
313	15.650	51.345	178.530	178.579	2.521	7.850	1.412	0.000
314	15.700	51.509	169.120	169.187	3.177	10.660	1.878	0.000
315	15.750	51.673	50.980	51.030	2.308	7.990	4.523	0.000
316	15.800	51.837	42.430	42.559	1.885	20.690	4.429	0.000
317	15.850	52.001	54.400	54.500	1.838	16.020	3.372	0.000
318	15.900	52.165	63.480	63.534	2.423	8.670	3.814	0.000
319	15.950	52.329	103.130	103.299	3.108	27.080	3.009	0.000
320	16.000	52.493	55.510	55.590	3.078	12.850	5.537	0.000
321	16.050	52.657	48.230	48.353	2.950	19.660	6.101	0.000
322	16.100	52.821	61.200	61.267	1.880	10.660	3.069	0.000
323	16.150	52.985	69.870	69.937	1.807	10.740	2.584	0.000
324	16.200	53.149	47.070	47.128	1.974	9.310	4.189	0.000
325	16.250	53.313	56.880	56.947	1.973	10.690	3.465	0.000
326	16.300	53.477	96.260	96.323	0.000	10.070	0.000	0.000
327	16.350	53.641	375.990	376.016	0.000	4.140	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221512
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-10
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-19-2014
CPT Time:	14:09
CPT File:	13-53075_GP1C-10.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722090.468
Northing / Lat:	4294230.502
Elevation:	151.217
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.460	2.539	0.007	12.680	0.276	24.800
2	0.100	0.328	19.030	19.144	0.007	18.230	0.037	30.600
3	0.150	0.492	46.540	47.079	0.007	86.280	0.015	35.500
4	0.200	0.656	38.720	38.716	0.006	-0.720	0.015	38.700
5	0.250	0.820	21.390	21.384	0.009	-0.950	0.042	49.300
6	0.300	0.984	14.880	14.872	0.005	-1.270	0.034	51.500
7	0.350	1.148	19.870	19.872	0.006	0.250	0.030	53.400
8	0.400	1.312	5.720	5.743	0.008	3.760	0.139	62.800
9	0.450	1.476	6.980	6.985	0.006	0.800	0.086	73.300
10	0.500	1.640	5.520	5.557	0.007	5.870	0.126	65.800
11	0.550	1.804	8.140	8.150	0.007	1.660	0.086	82.300
12	0.600	1.968	5.740	5.745	0.006	0.840	0.104	77.200
13	0.650	2.133	10.660	10.609	0.013	-8.130	0.123	85.600
14	0.700	2.297	18.050	18.028	0.016	-3.540	0.089	92.800
15	0.750	2.461	19.440	19.408	0.016	-5.200	0.082	91.700
16	0.800	2.625	25.830	25.748	0.016	-13.070	0.062	101.800
17	0.850	2.789	29.110	29.015	0.017	-15.150	0.059	88.100
18	0.900	2.953	29.710	29.604	0.030	-17.010	0.101	86.500
19	0.950	3.117	31.870	31.767	0.132	-16.460	0.416	94.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	35.200	35.096	0.241	-16.670	0.687	101.800
21	1.050	3.445	28.010	27.902	0.286	-17.270	1.025	95.400
22	1.100	3.609	24.380	24.273	0.276	-17.220	1.137	96.700
23	1.150	3.773	25.200	25.090	0.382	-17.640	1.523	85.700
24	1.200	3.937	28.440	28.330	0.468	-17.570	1.652	99.500
25	1.250	4.101	36.020	35.919	0.493	-16.220	1.373	98.400
26	1.300	4.265	30.430	30.328	0.493	-16.290	1.626	92.500
27	1.350	4.429	21.850	21.752	0.463	-15.740	2.129	94.700
28	1.400	4.593	19.610	19.519	0.353	-14.570	1.808	92.700
29	1.450	4.757	18.290	18.202	0.282	-14.060	1.549	95.400
30	1.500	4.921	19.020	18.955	0.263	-10.460	1.388	93.000
31	1.550	5.085	27.930	27.886	0.300	-7.020	1.076	85.100
32	1.600	5.249	27.310	27.249	0.350	-9.780	1.284	84.700
33	1.650	5.413	26.000	25.940	0.313	-9.610	1.207	80.000
34	1.700	5.577	23.540	23.492	0.137	-7.660	0.583	68.600
35	1.750	5.741	35.770	35.761	0.106	-1.430	0.296	75.600
36	1.800	5.905	74.600	74.597	0.365	-0.460	0.489	55.200
37	1.850	6.069	87.120	87.154	0.355	5.510	0.407	53.100
38	1.900	6.234	22.060	22.073	0.257	2.150	1.164	56.000
39	1.950	6.398	16.060	16.045	0.064	-2.420	0.399	53.300
40	2.000	6.562	11.920	11.877	0.013	-6.820	0.109	59.300
41	2.050	6.726	18.280	18.301	0.049	3.390	0.268	52.200
42	2.100	6.890	33.410	33.438	0.032	4.500	0.096	66.500
43	2.150	7.054	38.660	38.651	0.316	-1.460	0.818	72.000
44	2.200	7.218	43.930	43.969	0.329	6.250	0.748	66.100
45	2.250	7.382	18.380	18.395	0.323	2.420	1.756	60.700
46	2.300	7.546	13.460	13.490	0.281	4.780	2.083	52.400
47	2.350	7.710	16.840	16.853	0.097	2.080	0.576	45.500
48	2.400	7.874	35.290	35.301	0.115	1.790	0.326	29.500
49	2.450	8.038	38.790	38.821	0.353	5.000	0.909	21.100
50	2.500	8.202	41.050	41.101	0.664	8.170	1.616	19.600
51	2.550	8.366	61.080	61.089	0.938	1.390	1.535	18.200
52	2.600	8.530	30.550	30.644	0.879	15.090	2.868	24.800
53	2.650	8.694	39.500	39.461	0.410	-6.190	1.039	17.200
54	2.700	8.858	33.060	33.111	0.663	8.100	2.002	17.800
55	2.750	9.022	49.010	49.034	0.845	3.880	1.723	15.500
56	2.800	9.186	52.990	52.996	1.027	1.010	1.938	16.100
57	2.850	9.350	23.310	23.369	0.885	9.490	3.787	16.400
58	2.900	9.514	36.200	36.286	0.648	13.810	1.786	20.400
59	2.950	9.678	49.930	49.958	0.419	4.510	0.839	19.000
60	3.000	9.842	47.780	47.801	0.529	3.330	1.107	17.700
61	3.050	10.006	106.880	106.877	0.936	-0.480	0.876	24.400
62	3.100	10.170	173.400	173.398	1.102	-0.380	0.636	22.400
63	3.150	10.335	75.700	75.713	1.145	2.060	1.512	14.000
64	3.200	10.499	79.440	79.443	1.057	0.410	1.331	27.900
65	3.250	10.663	59.160	59.191	1.131	4.920	1.911	25.300
66	3.300	10.827	29.500	29.514	0.964	2.290	3.266	30.600
67	3.350	10.991	39.980	39.982	0.638	0.320	1.596	36.300
68	3.400	11.155	31.230	31.239	0.763	1.390	2.442	49.500
69	3.450	11.319	67.150	67.144	0.691	-0.960	1.029	59.700
70	3.500	11.483	35.380	35.501	0.640	19.360	1.803	83.000
71	3.550	11.647	42.550	42.633	0.723	13.320	1.696	92.500
72	3.600	11.811	54.390	54.374	0.733	-2.610	1.348	104.600
73	3.650	11.975	69.080	69.033	1.006	-7.460	1.457	94.200
74	3.700	12.139	66.010	65.917	0.975	-14.870	1.479	90.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	61.770	61.924	1.216	24.700	1.964	97.100
76	3.800	12.467	60.300	60.249	1.330	-8.240	2.208	102.300
77	3.850	12.631	54.380	54.305	1.468	-11.960	2.703	99.800
78	3.900	12.795	65.300	65.227	1.143	-11.630	1.752	86.700
79	3.950	12.959	74.500	74.431	0.965	-10.980	1.296	84.500
80	4.000	13.123	58.460	58.398	1.061	-9.950	1.817	68.700
81	4.050	13.287	42.060	41.996	1.020	-10.220	2.429	83.400
82	4.100	13.451	33.020	32.965	1.177	-8.870	3.570	85.600
83	4.150	13.615	45.650	45.622	1.004	-4.420	2.201	70.800
84	4.200	13.779	43.420	43.389	0.918	-4.960	2.116	66.800
85	4.250	13.943	47.220	47.213	1.139	-1.150	2.412	59.900
86	4.300	14.107	48.690	48.705	1.022	2.470	2.098	61.900
87	4.350	14.271	113.100	113.123	2.652	3.760	2.344	69.700
88	4.400	14.436	138.200	138.201	2.453	0.230	1.775	62.300
89	4.450	14.600	48.160	48.295	2.522	21.580	5.222	82.700
90	4.500	14.764	55.190	55.206	1.402	2.560	2.540	77.200
91	4.550	14.928	73.610	73.624	0.854	2.220	1.160	79.000
92	4.600	15.092	80.530	80.510	1.122	-3.250	1.394	93.500
93	4.650	15.256	85.660	85.696	1.208	5.770	1.410	86.600
94	4.700	15.420	85.390	85.408	1.331	2.850	1.558	68.200
95	4.750	15.584	79.460	79.507	1.246	7.460	1.567	77.800
96	4.800	15.748	77.410	77.412	1.509	0.380	1.949	83.400
97	4.850	15.912	68.480	68.472	1.704	-1.300	2.489	77.400
98	4.900	16.076	73.050	73.041	1.580	-1.440	2.163	79.600
99	4.950	16.240	56.340	56.337	1.414	-0.470	2.510	81.500
100	5.000	16.404	43.240	43.239	1.327	-0.210	3.069	72.100
101	5.050	16.568	33.320	33.298	0.877	-3.450	2.634	51.900
102	5.100	16.732	27.940	27.917	0.455	-3.610	1.630	55.600
103	5.150	16.896	31.740	31.716	0.122	-3.800	0.385	44.200
104	5.200	17.060	180.470	180.462	0.497	-1.290	0.275	37.200
105	5.250	17.224	225.340	225.335	3.868	-0.870	1.717	35.700
106	5.300	17.388	155.880	155.876	4.020	-0.600	2.579	21.200
107	5.350	17.552	44.940	44.992	4.059	8.370	9.022	17.700
108	5.400	17.716	51.290	51.378	1.321	14.020	2.571	21.400
109	5.450	17.880	43.490	43.485	0.900	-0.810	2.070	21.900
110	5.500	18.044	98.140	98.233	1.331	14.960	1.355	21.300
111	5.550	18.208	107.010	107.078	1.779	10.970	1.661	18.500
112	5.600	18.372	68.920	68.921	1.273	0.240	1.847	17.700
113	5.650	18.537	12.030	12.023	1.106	-1.190	9.199	31.000
114	5.700	18.701	77.930	77.949	1.108	3.060	1.421	26.100
115	5.750	18.865	46.300	46.308	1.201	1.310	2.593	32.700
116	5.800	19.029	72.710	72.704	1.577	-0.960	2.169	34.500
117	5.850	19.193	64.020	64.228	1.736	33.260	2.703	40.800
118	5.900	19.357	51.950	51.951	1.662	0.180	3.199	53.500
119	5.950	19.521	34.350	34.341	1.144	-1.480	3.331	62.700
120	6.000	19.685	25.160	25.309	0.800	23.830	3.161	58.800
121	6.050	19.849	20.830	20.884	0.523	8.730	2.504	78.100
122	6.100	20.013	21.260	21.375	0.505	18.390	2.363	60.700
123	6.150	20.177	24.420	24.563	0.391	22.980	1.592	58.800
124	6.200	20.341	30.000	30.143	0.384	22.940	1.274	34.300
125	6.250	20.505	32.150	32.134	0.713	-2.620	2.219	42.600
126	6.300	20.669	41.290	41.275	0.766	-2.410	1.856	28.600
127	6.350	20.833	28.700	28.697	0.980	-0.550	3.415	32.300
128	6.400	20.997	27.960	28.062	0.904	16.390	3.221	37.800
129	6.450	21.161	20.630	20.663	0.697	5.330	3.373	36.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	18.600	18.606	0.609	0.980	3.273	54.300
131	6.550	21.489	12.930	12.931	0.547	0.170	4.230	60.700
132	6.600	21.653	26.780	26.788	0.516	1.340	1.926	47.400
133	6.650	21.817	16.830	16.887	0.421	9.180	2.493	61.400
134	6.700	21.981	39.380	39.398	0.394	2.870	1.000	77.300
135	6.750	22.145	31.720	31.894	0.390	27.860	1.223	72.500
136	6.800	22.309	11.310	11.361	0.385	8.200	3.389	83.700
137	6.850	22.473	17.430	17.583	0.512	24.480	2.912	84.600
138	6.900	22.638	20.890	21.015	0.580	20.040	2.760	85.300
139	6.950	22.802	28.300	28.407	0.672	17.160	2.366	68.800
140	7.000	22.966	27.170	27.222	0.762	8.260	2.799	43.400
141	7.050	23.130	19.550	19.586	0.650	5.790	3.319	38.600
142	7.100	23.294	14.760	14.789	0.495	4.600	3.347	37.500
143	7.150	23.458	12.490	12.510	0.398	3.260	3.181	31.100
144	7.200	23.622	17.620	17.676	0.420	8.940	2.376	28.900
145	7.250	23.786	50.840	50.897	0.776	9.060	1.525	37.000
146	7.300	23.950	75.100	75.209	0.951	17.400	1.264	37.000
147	7.350	24.114	182.720	182.923	2.408	32.440	1.316	39.600
148	7.400	24.278	133.920	135.433	2.673	242.340	1.974	53.200
149	7.450	24.442	47.370	47.406	2.135	5.750	4.504	64.200
150	7.500	24.606	60.720	60.673	1.132	-7.480	1.866	56.400
151	7.550	24.770	38.640	38.676	1.340	5.710	3.465	57.500
152	7.600	24.934	29.250	29.199	1.241	-8.220	4.250	48.000
153	7.650	25.098	24.820	24.780	1.003	-6.440	4.048	35.400
154	7.700	25.262	37.680	37.684	0.941	0.680	2.497	25.400
155	7.750	25.426	24.830	24.847	0.657	2.650	2.644	32.600
156	7.800	25.590	9.750	9.738	0.706	-1.980	7.250	26.000
157	7.850	25.754	32.400	32.411	0.900	1.700	2.777	25.500
158	7.900	25.918	39.640	39.654	0.680	2.200	1.715	20.700
159	7.950	26.082	49.810	49.813	0.373	0.510	0.749	21.400
160	8.000	26.246	36.230	36.231	0.504	0.180	1.391	27.900
161	8.050	26.410	20.240	20.199	0.769	-6.550	3.807	32.700
162	8.100	26.574	23.740	23.906	0.938	26.570	3.924	26.600
163	8.150	26.739	41.670	41.669	0.755	-0.200	1.812	33.600
164	8.200	26.903	20.270	20.298	0.485	4.560	2.389	26.800
165	8.250	27.067	8.310	8.307	0.547	-0.440	6.585	33.600
166	8.300	27.231	21.580	21.599	0.461	2.990	2.134	36.000
167	8.350	27.395	32.010	31.997	0.824	-2.140	2.575	41.700
168	8.400	27.559	66.420	66.442	1.574	3.560	2.369	24.200
169	8.450	27.723	37.820	37.868	1.468	7.650	3.877	22.200
170	8.500	27.887	45.240	45.236	1.467	-0.590	3.243	16.900
171	8.550	28.051	93.740	93.752	1.195	1.990	1.275	13.600
172	8.600	28.215	50.640	50.648	1.308	1.260	2.583	14.100
173	8.650	28.379	25.950	25.930	0.841	-3.130	3.243	13.800
174	8.700	28.543	7.390	7.389	0.476	-0.200	6.442	18.200
175	8.750	28.707	1.580	1.578	0.110	-0.390	6.973	17.000
176	8.800	28.871	1.490	1.500	0.035	1.550	2.334	20.100
177	8.850	29.035	2.530	2.523	0.050	-1.190	1.982	31.300
178	8.900	29.199	2.690	2.704	0.072	2.270	2.663	40.900
179	8.950	29.363	6.320	6.344	0.192	3.910	3.026	51.600
180	9.000	29.527	11.570	11.559	0.317	-1.770	2.742	64.500
181	9.050	29.691	27.260	27.285	0.430	3.950	1.576	76.800
182	9.100	29.855	33.730	33.737	0.651	1.090	1.930	80.900
183	9.150	30.019	35.270	35.269	0.764	-0.140	2.166	96.100
184	9.200	30.183	33.940	33.981	0.849	6.600	2.498	87.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	29.860	29.881	0.925	3.400	3.096	74.400
186	9.300	30.511	27.230	27.248	0.879	2.940	3.226	72.100
187	9.350	30.675	25.170	25.190	0.879	3.210	3.489	75.100
188	9.400	30.840	29.630	29.657	0.796	4.400	2.684	70.700
189	9.450	31.004	25.690	25.717	0.738	4.280	2.870	66.800
190	9.500	31.168	22.860	22.880	0.896	3.170	3.916	42.100
191	9.550	31.332	48.940	48.939	0.859	-0.230	1.755	31.800
192	9.600	31.496	35.820	35.854	1.060	5.490	2.956	31.300
193	9.650	31.660	44.840	44.835	1.096	-0.840	2.445	31.100
194	9.700	31.824	48.630	48.675	1.508	7.160	3.098	29.100
195	9.750	31.988	53.950	53.969	1.671	3.120	3.096	32.200
196	9.800	32.152	83.980	84.024	1.656	7.040	1.971	29.200
197	9.850	32.316	90.340	90.409	2.290	11.040	2.533	43.500
198	9.900	32.480	142.410	142.449	2.547	6.290	1.788	40.800
199	9.950	32.644	48.620	48.634	2.310	2.210	4.750	45.500
200	10.000	32.808	37.710	37.735	2.023	4.000	5.361	53.400
201	10.050	32.972	34.580	34.626	1.112	7.370	3.211	57.800
202	10.100	33.136	26.010	26.104	1.275	14.990	4.884	51.800
203	10.150	33.300	33.380	33.469	1.170	14.210	3.496	50.700
204	10.200	33.464	57.850	57.909	1.360	9.480	2.349	48.800
205	10.250	33.628	70.510	70.593	1.619	13.370	2.293	53.400
206	10.300	33.792	85.240	85.255	1.911	2.380	2.242	49.700
207	10.350	33.956	59.710	59.708	1.319	-0.340	2.209	45.000
208	10.400	34.120	27.590	27.793	1.824	32.530	6.563	53.000
209	10.450	34.284	40.680	40.750	1.818	11.180	4.461	63.000
210	10.500	34.448	42.050	42.034	1.271	-2.510	3.024	62.700
211	10.550	34.612	145.360	145.568	0.848	33.280	0.583	68.200
212	10.600	34.776	81.490	81.533	0.796	6.810	0.976	56.900
213	10.650	34.941	62.960	62.951	0.930	-1.470	1.477	65.900
214	10.700	35.105	61.320	61.354	0.828	5.490	1.350	67.000
215	10.750	35.269	35.450	35.672	0.650	35.580	1.822	57.700
216	10.800	35.433	37.340	37.500	0.624	25.660	1.664	63.400
217	10.850	35.597	39.840	39.937	0.681	15.540	1.705	41.400
218	10.900	35.761	87.780	87.836	1.140	9.010	1.298	35.900
219	10.950	35.925	109.350	109.402	1.514	8.370	1.384	34.000
220	11.000	36.089	70.980	70.972	2.814	-1.260	3.965	21.400
221	11.050	36.253	135.210	135.362	2.227	24.400	1.645	24.300
222	11.100	36.417	118.350	118.348	1.410	-0.320	1.191	25.800
223	11.150	36.581	113.640	113.636	1.446	-0.620	1.272	23.200
224	11.200	36.745	15.370	15.369	0.639	-0.140	4.158	25.300
225	11.250	36.909	37.550	37.556	0.303	0.920	0.807	18.600
226	11.300	37.073	41.040	41.035	0.317	-0.740	0.773	17.900
227	11.350	37.237	52.770	52.759	0.329	-1.730	0.624	24.800
228	11.400	37.401	61.910	61.907	0.445	-0.450	0.719	26.000
229	11.450	37.565	89.590	89.612	0.317	3.560	0.354	29.700
230	11.500	37.729	65.930	65.932	0.606	0.280	0.919	25.500
231	11.550	37.893	39.570	39.576	0.611	0.910	1.544	31.200
232	11.600	38.057	33.500	33.528	0.552	4.500	1.646	32.500
233	11.650	38.221	24.520	24.500	0.635	-3.150	2.592	39.400
234	11.700	38.385	32.300	32.307	0.611	1.140	1.891	45.100
235	11.750	38.549	94.540	94.539	0.756	-0.140	0.800	43.500
236	11.800	38.713	72.040	72.041	1.172	0.160	1.627	43.900
237	11.850	38.877	71.250	71.273	1.042	3.620	1.462	40.000
238	11.900	39.042	122.460	122.453	1.276	-1.090	1.042	38.200
239	11.950	39.206	113.740	113.817	0.933	12.350	0.820	32.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	54.810	54.810	1.156	0.060	2.109	29.500
241	12.050	39.534	95.190	95.178	0.983	-1.950	1.033	34.300
242	12.100	39.698	82.170	82.227	1.032	9.080	1.255	27.900
243	12.150	39.862	76.330	76.425	1.276	15.200	1.670	31.100
244	12.200	40.026	52.200	52.215	1.261	2.480	2.415	32.100
245	12.250	40.190	55.540	55.630	1.273	14.390	2.288	0.000
246	12.300	40.354	68.720	68.846	0.450	20.260	0.654	0.000
247	12.350	40.518	73.350	73.399	0.420	7.860	0.572	0.000
248	12.400	40.682	88.640	88.718	0.565	12.480	0.637	0.000
249	12.450	40.846	39.350	39.382	0.646	5.130	1.640	0.000
250	12.500	41.010	34.180	34.224	0.766	6.980	2.238	0.000
251	12.550	41.174	25.960	25.985	0.551	3.960	2.120	0.000
252	12.600	41.338	21.140	21.173	0.582	5.330	2.749	0.000
253	12.650	41.502	19.160	19.191	0.671	4.940	3.496	0.000
254	12.700	41.666	29.750	29.775	0.714	3.930	2.398	0.000
255	12.750	41.830	83.500	83.574	0.929	11.840	1.112	0.000
256	12.800	41.994	110.500	110.506	1.689	1.010	1.528	0.000
257	12.850	42.158	111.300	111.319	1.572	3.120	1.412	0.000
258	12.900	42.322	101.870	102.601	1.177	117.140	1.147	0.000
259	12.950	42.486	316.120	316.160	0.000	6.440	0.000	0.000
260	13.000	42.650	362.980	362.996	0.000	2.640	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221514
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-11
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-19-2014
CPT Time:	11:48
CPT File:	13-53075_GP1C-11.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722107.173
Northing / Lat:	4294243.474
Elevation:	151.340
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	9.310	9.354	0.003	7.040	0.032	30.900
2	0.100	0.328	22.530	22.555	0.000	3.940	0.000	33.500
3	0.150	0.492	19.410	19.422	0.001	1.970	0.005	39.700
4	0.200	0.656	15.170	15.182	0.002	1.970	0.013	46.100
5	0.250	0.820	15.340	15.349	0.010	1.520	0.065	50.100
6	0.300	0.984	35.930	35.946	0.021	2.510	0.058	59.900
7	0.350	1.148	1.380	1.372	0.045	-1.320	3.280	65.400
8	0.400	1.312	2.940	2.959	0.051	3.000	1.724	78.000
9	0.450	1.476	5.570	5.655	0.098	13.660	1.733	87.700
10	0.500	1.640	7.010	7.022	0.162	1.950	2.307	89.200
11	0.550	1.804	13.940	13.930	0.222	-1.560	1.594	94.100
12	0.600	1.968	27.480	27.513	0.396	5.220	1.439	95.700
13	0.650	2.133	37.360	37.344	0.509	-2.510	1.363	101.400
14	0.700	2.297	57.280	57.274	0.758	-0.980	1.323	87.400
15	0.750	2.461	81.870	81.842	1.093	-4.480	1.335	89.700
16	0.800	2.625	79.450	79.379	1.399	-11.400	1.762	89.700
17	0.850	2.789	63.900	63.821	1.417	-12.630	2.220	92.700
18	0.900	2.953	44.680	44.592	1.435	-14.040	3.218	108.600
19	0.950	3.117	29.670	29.579	1.094	-14.620	3.699	95.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	39.050	38.963	1.081	-13.940	2.774	100.200
21	1.050	3.445	69.430	69.365	1.381	-10.410	1.991	104.900
22	1.100	3.609	61.630	61.563	1.599	-10.730	2.597	95.600
23	1.150	3.773	53.470	53.395	1.660	-11.970	3.109	100.400
24	1.200	3.937	45.310	45.233	1.551	-12.340	3.429	97.700
25	1.250	4.101	42.220	42.139	1.425	-13.000	3.382	84.000
26	1.300	4.265	42.380	42.299	1.291	-12.920	3.052	96.800
27	1.350	4.429	52.850	52.769	1.260	-12.950	2.388	102.200
28	1.400	4.593	45.010	44.924	1.262	-13.750	2.809	99.800
29	1.450	4.757	43.700	43.614	1.226	-13.840	2.811	86.800
30	1.500	4.921	45.520	45.436	1.142	-13.430	2.513	97.500
31	1.550	5.085	44.640	44.556	1.096	-13.450	2.460	98.000
32	1.600	5.249	49.660	49.576	1.106	-13.380	2.231	92.800
33	1.650	5.413	41.590	41.502	1.222	-14.080	2.944	103.100
34	1.700	5.577	30.940	30.854	1.066	-13.720	3.455	96.900
35	1.750	5.741	31.230	31.147	1.014	-13.330	3.256	89.100
36	1.800	5.905	32.880	32.798	0.971	-13.150	2.961	103.400
37	1.850	6.069	27.750	27.667	0.892	-13.230	3.224	99.500
38	1.900	6.234	28.660	28.583	0.851	-12.280	2.977	91.200
39	1.950	6.398	27.210	27.138	0.742	-11.550	2.734	87.700
40	2.000	6.562	27.270	27.197	0.807	-11.640	2.967	90.500
41	2.050	6.726	26.330	26.255	0.786	-12.080	2.994	95.700
42	2.100	6.890	30.700	30.626	0.801	-11.790	2.615	94.000
43	2.150	7.054	32.930	32.858	0.721	-11.570	2.194	88.900
44	2.200	7.218	34.500	34.432	0.744	-10.850	2.161	90.200
45	2.250	7.382	25.590	25.514	0.834	-12.200	3.269	85.100
46	2.300	7.546	16.940	16.862	0.772	-12.440	4.578	91.600
47	2.350	7.710	12.760	12.684	0.683	-12.210	5.385	101.600
48	2.400	7.874	18.560	18.488	0.657	-11.490	3.554	104.000
49	2.450	8.038	20.710	20.644	0.698	-10.610	3.381	93.000
50	2.500	8.202	21.100	21.035	0.824	-10.460	3.917	96.000
51	2.550	8.366	18.690	18.620	0.709	-11.290	3.808	93.600
52	2.600	8.530	15.560	15.486	0.534	-11.900	3.448	90.800
53	2.650	8.694	14.620	14.623	0.410	0.550	2.804	98.300
54	2.700	8.858	10.620	10.628	0.444	1.220	4.178	76.200
55	2.750	9.022	13.320	13.298	0.488	-3.600	3.670	81.900
56	2.800	9.186	17.410	17.387	0.523	-3.620	3.008	75.300
57	2.850	9.350	15.970	15.891	0.425	-12.590	2.674	68.900
58	2.900	9.514	13.150	13.077	0.414	-11.750	3.166	65.900
59	2.950	9.678	17.440	17.441	0.598	0.210	3.429	69.700
60	3.000	9.842	18.890	18.892	0.750	0.250	3.970	76.600
61	3.050	10.006	19.510	19.531	0.593	3.320	3.036	79.200
62	3.100	10.170	21.310	21.406	0.550	15.360	2.569	98.000
63	3.150	10.335	56.680	56.741	0.792	9.720	1.396	84.700
64	3.200	10.499	48.270	48.272	1.268	0.350	2.627	88.300
65	3.250	10.663	31.750	31.733	1.503	-2.670	4.736	88.000
66	3.300	10.827	21.570	21.535	1.269	-5.550	5.893	64.200
67	3.350	10.991	18.550	18.501	0.976	-7.880	5.275	54.900
68	3.400	11.155	11.100	11.064	0.498	-5.810	4.501	47.600
69	3.450	11.319	9.240	9.220	0.425	-3.140	4.609	30.700
70	3.500	11.483	20.550	20.545	0.417	-0.730	2.030	27.500
71	3.550	11.647	32.960	32.977	0.659	2.730	1.998	31.600
72	3.600	11.811	38.420	38.434	0.667	2.270	1.735	23.000
73	3.650	11.975	41.220	41.247	0.675	4.280	1.636	26.800
74	3.700	12.139	75.250	75.264	1.056	2.180	1.403	25.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	106.890	106.964	1.751	11.870	1.637	28.700
76	3.800	12.467	39.050	39.154	1.613	16.640	4.120	26.100
77	3.850	12.631	6.740	6.743	1.058	0.530	15.690	26.200
78	3.900	12.795	1.530	1.555	0.411	3.960	26.436	33.300
79	3.950	12.959	6.790	6.795	0.155	0.840	2.281	34.400
80	4.000	13.123	7.570	7.574	0.111	0.620	1.466	56.900
81	4.050	13.287	5.600	5.623	0.246	3.760	4.375	59.900
82	4.100	13.451	13.370	13.530	0.336	25.660	2.483	79.900
83	4.150	13.615	20.040	20.154	0.494	18.260	2.451	76.300
84	4.200	13.779	26.350	26.469	0.680	19.030	2.569	80.100
85	4.250	13.943	26.590	26.657	0.765	10.770	2.870	80.600
86	4.300	14.107	29.430	29.381	0.923	-7.860	3.141	51.600
87	4.350	14.271	29.120	29.087	0.880	-5.290	3.025	44.500
88	4.400	14.436	48.910	48.947	1.220	5.850	2.493	31.700
89	4.450	14.600	52.320	52.368	1.249	7.720	2.385	23.900
90	4.500	14.764	54.850	54.792	0.969	-9.230	1.768	26.700
91	4.550	14.928	50.520	50.516	0.657	-0.640	1.301	22.800
92	4.600	15.092	72.270	72.319	1.190	7.900	1.645	18.700
93	4.650	15.256	70.550	70.669	1.004	19.040	1.421	21.400
94	4.700	15.420	60.170	60.215	1.279	7.170	2.124	20.500
95	4.750	15.584	55.600	55.625	1.091	3.930	1.961	20.700
96	4.800	15.748	38.190	38.206	0.839	2.620	2.196	22.400
97	4.850	15.912	22.470	22.477	1.125	1.170	5.005	25.300
98	4.900	16.076	69.400	69.407	0.724	1.130	1.043	18.600
99	4.950	16.240	49.580	49.574	0.605	-0.920	1.220	27.000
100	5.000	16.404	52.160	52.178	0.403	2.940	0.772	36.100
101	5.050	16.568	47.850	47.865	0.520	2.480	1.086	36.500
102	5.100	16.732	54.340	54.347	0.545	1.110	1.003	49.100
103	5.150	16.896	38.680	38.694	0.444	2.190	1.147	51.800
104	5.200	17.060	101.470	101.477	0.625	1.190	0.616	83.100
105	5.250	17.224	58.320	58.324	0.625	0.660	1.072	84.300
106	5.300	17.388	25.700	25.852	0.631	24.290	2.441	86.000
107	5.350	17.552	21.610	21.688	0.597	12.490	2.753	90.600
108	5.400	17.716	17.620	17.665	0.657	7.150	3.719	81.000
109	5.450	17.880	22.050	22.144	0.717	15.030	3.238	81.500
110	5.500	18.044	46.460	46.563	0.639	16.470	1.372	81.500
111	5.550	18.208	60.260	60.319	0.938	9.400	1.555	91.200
112	5.600	18.372	66.880	67.046	1.197	26.590	1.785	98.800
113	5.650	18.537	73.330	73.366	1.515	5.810	2.065	89.300
114	5.700	18.701	68.630	68.639	1.819	1.390	2.650	69.700
115	5.750	18.865	58.740	58.738	2.179	-0.390	3.710	75.200
116	5.800	19.029	50.500	50.519	2.228	3.120	4.410	53.300
117	5.850	19.193	70.560	70.572	1.850	1.870	2.621	34.800
118	5.900	19.357	81.900	81.845	1.752	-8.790	2.141	26.900
119	5.950	19.521	46.230	46.246	0.984	2.560	2.128	27.900
120	6.000	19.685	17.110	17.122	1.440	1.860	8.410	18.200
121	6.050	19.849	73.060	73.064	1.738	0.720	2.379	28.800
122	6.100	20.013	33.210	33.193	2.294	-2.780	6.911	38.000
123	6.150	20.177	41.800	41.820	2.286	3.180	5.466	29.900
124	6.200	20.341	20.450	20.882	1.561	69.130	7.475	41.200
125	6.250	20.505	27.160	27.154	1.124	-0.960	4.139	43.300
126	6.300	20.669	31.840	31.903	1.059	10.070	3.319	43.100
127	6.350	20.833	29.490	29.786	1.042	47.340	3.498	50.600
128	6.400	20.997	32.900	32.959	1.891	9.520	5.737	45.000
129	6.450	21.161	113.940	113.932	1.308	-1.310	1.148	54.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	143.640	143.631	1.392	-1.490	0.969	50.300
131	6.550	21.489	122.000	122.011	1.668	1.690	1.367	44.900
132	6.600	21.653	97.610	97.621	1.822	1.720	1.866	36.900
133	6.650	21.817	63.740	63.744	1.695	0.640	2.659	46.400
134	6.700	21.981	65.770	65.856	1.713	13.750	2.601	42.500
135	6.750	22.145	64.250	64.269	1.513	3.060	2.354	40.000
136	6.800	22.309	106.900	106.911	1.530	1.810	1.431	32.300
137	6.850	22.473	78.120	78.291	1.651	27.440	2.109	28.700
138	6.900	22.638	192.120	192.164	0.478	7.030	0.249	25.900
139	6.950	22.802	236.090	236.102	4.497	1.960	1.905	22.700
140	7.000	22.966	194.810	194.805	4.670	-0.850	2.397	31.100
141	7.050	23.130	33.980	34.020	5.205	6.410	15.300	25.300
142	7.100	23.294	53.580	53.625	2.455	7.280	4.578	24.400
143	7.150	23.458	98.620	98.618	1.387	-0.350	1.406	29.800
144	7.200	23.622	15.000	15.051	1.200	8.200	7.973	23.300
145	7.250	23.786	11.380	11.407	1.330	4.360	11.659	23.400
146	7.300	23.950	43.370	43.419	0.550	7.820	1.267	30.200
147	7.350	24.114	41.920	41.984	0.912	10.190	2.172	45.900
148	7.400	24.278	39.750	39.773	1.073	3.650	2.698	56.700
149	7.450	24.442	26.690	26.779	0.830	14.250	3.099	55.000
150	7.500	24.606	31.810	31.865	0.742	8.820	2.329	61.700
151	7.550	24.770	40.740	40.756	0.643	2.570	1.578	52.600
152	7.600	24.934	29.260	29.268	0.588	1.360	2.009	42.700
153	7.650	25.098	23.010	23.025	0.652	2.330	2.832	36.300
154	7.700	25.262	24.280	24.296	0.758	2.530	3.120	27.700
155	7.750	25.426	38.600	38.655	0.494	8.840	1.278	35.900
156	7.800	25.590	97.840	97.889	1.263	7.880	1.290	21.400
157	7.850	25.754	63.320	63.362	1.075	6.730	1.697	22.600
158	7.900	25.918	24.170	24.242	1.183	11.510	4.880	18.900
159	7.950	26.082	32.830	32.880	0.591	8.010	1.797	21.400
160	8.000	26.246	21.320	21.345	0.713	4.040	3.340	21.200
161	8.050	26.410	24.240	24.281	0.695	6.510	2.862	24.400
162	8.100	26.574	33.100	33.161	0.669	9.730	2.017	26.200
163	8.150	26.739	41.480	41.512	0.593	5.070	1.429	18.900
164	8.200	26.903	17.420	17.427	0.514	1.170	2.949	27.100
165	8.250	27.067	27.450	27.512	0.532	9.940	1.934	26.700
166	8.300	27.231	77.050	77.124	0.836	11.860	1.084	47.300
167	8.350	27.395	54.070	54.092	0.885	3.520	1.636	46.800
168	8.400	27.559	17.100	17.204	0.724	16.610	4.208	53.300
169	8.450	27.723	17.540	17.634	0.641	15.130	3.635	55.800
170	8.500	27.887	28.420	28.511	0.497	14.520	1.743	66.100
171	8.550	28.051	40.720	40.718	1.145	-0.270	2.812	67.400
172	8.600	28.215	44.850	44.874	1.357	3.840	3.024	83.700
173	8.650	28.379	29.330	29.385	1.263	8.800	4.298	83.200
174	8.700	28.543	27.870	27.920	1.087	7.940	3.893	73.500
175	8.750	28.707	21.810	21.846	0.997	5.750	4.564	65.800
176	8.800	28.871	23.110	23.176	0.952	10.610	4.108	56.300
177	8.850	29.035	43.130	43.153	0.893	3.620	2.069	48.700
178	8.900	29.199	53.630	53.675	1.117	7.150	2.081	29.700
179	8.950	29.363	27.430	27.460	1.133	4.770	4.126	38.400
180	9.000	29.527	18.510	18.514	1.285	0.680	6.941	45.400
181	9.050	29.691	73.290	73.321	1.188	4.920	1.620	37.900
182	9.100	29.855	26.690	26.742	1.178	8.360	4.405	63.100
183	9.150	30.019	25.120	25.299	1.107	28.730	4.376	78.000
184	9.200	30.183	22.660	22.675	0.772	2.400	3.405	85.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	23.860	23.976	0.649	18.610	2.707	82.600
186	9.300	30.511	28.810	28.847	0.654	5.950	2.267	73.200
187	9.350	30.675	28.410	28.465	0.816	8.760	2.867	73.400
188	9.400	30.840	22.660	22.709	0.799	7.890	3.518	72.800
189	9.450	31.004	34.860	34.985	1.078	19.990	3.081	76.500
190	9.500	31.168	44.810	44.921	1.310	17.750	2.916	82.600
191	9.550	31.332	58.650	58.904	1.407	40.610	2.389	91.600
192	9.600	31.496	80.530	80.553	1.722	3.660	2.138	77.700
193	9.650	31.660	58.560	58.557	1.610	-0.510	2.749	67.500
194	9.700	31.824	40.350	40.367	1.226	2.690	3.037	62.500
195	9.750	31.988	26.100	26.081	0.863	-3.070	3.309	58.000
196	9.800	32.152	18.750	18.727	0.634	-3.660	3.385	34.900
197	9.850	32.316	18.250	18.245	0.496	-0.820	2.719	31.000
198	9.900	32.480	20.680	20.688	0.515	1.290	2.489	18.400
199	9.950	32.644	14.840	14.847	0.586	1.170	3.947	16.900
200	10.000	32.808	24.370	24.376	0.613	0.980	2.515	18.300
201	10.050	32.972	17.380	17.391	0.576	1.820	3.312	14.400
202	10.100	33.136	19.200	19.221	0.871	3.290	4.532	9.000
203	10.150	33.300	25.060	25.123	0.922	10.030	3.670	11.900
204	10.200	33.464	44.420	44.429	1.438	1.460	3.237	11.500
205	10.250	33.628	42.350	42.443	1.617	14.820	3.810	11.700
206	10.300	33.792	49.710	50.167	2.417	73.140	4.818	13.000
207	10.350	33.956	56.480	56.549	2.775	11.060	4.907	0.000
208	10.400	34.120	61.590	62.287	3.196	111.710	5.131	0.000
209	10.450	34.284	77.220	78.356	3.378	181.940	4.311	0.000
210	10.500	34.448	95.250	95.481	3.779	36.960	3.958	0.000
211	10.550	34.612	98.730	99.062	3.600	53.200	3.634	0.000
212	10.600	34.776	108.090	108.191	3.360	16.200	3.106	0.000
213	10.650	34.941	104.170	104.252	2.760	13.110	2.647	0.000
214	10.700	35.105	122.540	122.607	2.882	10.670	2.351	0.000
215	10.750	35.269	188.440	188.506	3.805	10.510	2.019	0.000
216	10.800	35.433	150.690	150.808	7.838	18.830	5.197	0.000
217	10.850	35.597	186.410	186.695	7.838	45.710	4.198	0.000
218	10.900	35.761	213.680	215.423	4.844	279.240	2.249	0.000
219	10.950	35.925	320.940	321.345	4.351	64.870	1.354	0.000
220	11.000	36.089	406.550	407.857	3.269	209.400	0.802	0.000
221	11.050	36.253	382.100	382.476	0.000	60.220	0.000	0.000
222	11.100	36.417	450.070	452.942	0.000	460.060	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221516
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-12
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-19-2014
CPT Time:	10:08
CPT File:	13-53075_GP1C-12.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722121.876
Northing / Lat:	4294252.115
Elevation:	152.321
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.320	2.321	0.093	0.180	4.007	29.100
2	0.100	0.328	12.720	12.728	0.086	1.240	0.676	33.800
3	0.150	0.492	21.900	21.906	0.081	0.920	0.370	39.100
4	0.200	0.656	32.100	32.104	0.015	0.670	0.047	47.300
5	0.250	0.820	41.890	41.894	0.076	0.620	0.181	44.500
6	0.300	0.984	7.200	7.202	0.090	0.260	1.250	48.400
7	0.350	1.148	8.660	8.662	0.097	0.300	1.120	45.600
8	0.400	1.312	13.180	13.183	0.109	0.430	0.827	53.500
9	0.450	1.476	21.530	21.534	0.160	0.580	0.743	63.800
10	0.500	1.640	50.210	50.214	0.262	0.650	0.522	75.800
11	0.550	1.804	15.230	15.234	0.359	0.630	2.357	81.900
12	0.600	1.968	18.110	18.094	0.314	-2.520	1.735	87.000
13	0.650	2.133	20.930	20.910	0.368	-3.160	1.760	88.500
14	0.700	2.297	19.470	19.449	0.413	-3.310	2.123	83.400
15	0.750	2.461	16.300	16.276	0.426	-3.810	2.617	90.000
16	0.800	2.625	13.060	13.033	0.395	-4.300	3.031	89.700
17	0.850	2.789	12.600	12.572	0.351	-4.440	2.792	78.300
18	0.900	2.953	10.910	10.882	0.310	-4.480	2.849	88.700
19	0.950	3.117	9.470	9.441	0.331	-4.690	3.506	86.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	10.320	10.292	0.342	-4.540	3.323	85.600
21	1.050	3.445	26.860	26.831	0.450	-4.610	1.677	90.200
22	1.100	3.609	41.730	41.700	0.497	-4.810	1.192	97.800
23	1.150	3.773	43.400	43.369	0.593	-4.890	1.367	86.000
24	1.200	3.937	42.960	42.930	0.586	-4.800	1.365	90.400
25	1.250	4.101	39.510	39.480	0.542	-4.740	1.373	96.000
26	1.300	4.265	38.560	38.532	0.483	-4.560	1.254	95.200
27	1.350	4.429	36.860	36.833	0.480	-4.290	1.303	102.700
28	1.400	4.593	36.350	36.318	0.631	-5.190	1.737	102.000
29	1.450	4.757	32.240	32.211	0.725	-4.660	2.251	99.300
30	1.500	4.921	25.600	25.570	0.787	-4.810	3.078	91.000
31	1.550	5.085	21.890	21.861	0.685	-4.640	3.133	82.000
32	1.600	5.249	20.110	20.082	0.597	-4.420	2.973	86.100
33	1.650	5.413	19.310	19.280	0.564	-4.840	2.925	99.100
34	1.700	5.577	16.380	16.351	0.556	-4.680	3.400	91.200
35	1.750	5.741	16.350	16.321	0.534	-4.610	3.272	85.500
36	1.800	5.905	16.190	16.160	0.554	-4.730	3.428	92.200
37	1.850	6.069	15.170	15.140	0.551	-4.830	3.639	111.300
38	1.900	6.234	13.250	13.223	0.508	-4.290	3.842	95.800
39	1.950	6.398	14.330	14.303	0.434	-4.370	3.034	109.300
40	2.000	6.562	16.460	16.432	0.434	-4.460	2.641	101.700
41	2.050	6.726	17.140	17.114	0.497	-4.130	2.904	96.200
42	2.100	6.890	18.030	18.003	0.507	-4.300	2.816	102.800
43	2.150	7.054	18.660	18.634	0.473	-4.130	2.538	105.300
44	2.200	7.218	20.080	20.055	0.478	-4.070	2.383	100.900
45	2.250	7.382	22.610	22.584	0.488	-4.120	2.161	83.800
46	2.300	7.546	22.990	22.964	0.506	-4.120	2.203	82.800
47	2.350	7.710	22.890	22.864	0.478	-4.210	2.091	95.400
48	2.400	7.874	23.760	23.734	0.475	-4.240	2.001	91.500
49	2.450	8.038	23.790	23.764	0.499	-4.180	2.100	89.900
50	2.500	8.202	23.950	23.924	0.500	-4.240	2.090	79.500
51	2.550	8.366	23.220	23.194	0.499	-4.180	2.151	77.800
52	2.600	8.530	25.510	25.505	0.403	-0.830	1.580	69.500
53	2.650	8.694	27.920	27.920	0.578	0.000	2.070	51.000
54	2.700	8.858	37.310	37.312	0.870	0.360	2.332	44.300
55	2.750	9.022	63.370	63.373	0.982	0.550	1.550	45.300
56	2.800	9.186	50.880	50.883	1.569	0.420	3.084	32.200
57	2.850	9.350	48.890	48.893	0.867	0.530	1.773	37.900
58	2.900	9.514	56.320	56.320	1.085	0.000	1.926	33.400
59	2.950	9.678	125.520	125.525	1.570	0.860	1.251	34.800
60	3.000	9.842	46.940	46.950	2.004	1.540	4.268	30.600
61	3.050	10.006	34.850	34.860	1.133	1.530	3.250	31.000
62	3.100	10.170	56.980	56.991	1.276	1.810	2.239	33.400
63	3.150	10.335	29.800	29.810	1.007	1.650	3.378	37.700
64	3.200	10.499	35.690	35.701	1.079	1.730	3.022	30.900
65	3.250	10.663	31.520	31.529	0.933	1.480	2.959	38.200
66	3.300	10.827	64.920	64.929	1.090	1.510	1.679	44.500
67	3.350	10.991	69.590	69.602	1.279	1.980	1.838	53.200
68	3.400	11.155	49.730	49.742	1.413	1.990	2.841	58.400
69	3.450	11.319	36.210	36.224	0.958	2.200	2.645	76.200
70	3.500	11.483	15.670	15.685	0.621	2.360	3.959	81.100
71	3.550	11.647	13.220	13.248	0.445	4.540	3.359	90.000
72	3.600	11.811	14.430	14.462	0.375	5.100	2.593	83.100
73	3.650	11.975	10.230	10.264	0.427	5.410	4.160	80.800
74	3.700	12.139	10.540	10.572	0.419	5.190	3.963	64.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	15.990	16.023	0.431	5.320	2.690	57.200
76	3.800	12.467	27.260	27.293	0.667	5.290	2.444	44.300
77	3.850	12.631	46.010	46.045	0.922	5.600	2.002	33.500
78	3.900	12.795	58.210	58.248	1.082	6.110	1.858	27.800
79	3.950	12.959	50.180	50.217	1.139	5.890	2.268	28.000
80	4.000	13.123	40.270	40.306	1.376	5.760	3.414	23.800
81	4.050	13.287	84.780	84.815	1.504	5.560	1.773	31.400
82	4.100	13.451	156.510	156.548	2.292	6.100	1.464	25.300
83	4.150	13.615	67.040	67.074	2.277	5.390	3.395	38.500
84	4.200	13.779	65.370	65.394	1.914	3.900	2.927	44.200
85	4.250	13.943	68.230	68.259	1.043	4.650	1.528	58.300
86	4.300	14.107	19.920	19.953	0.846	5.280	4.240	65.900
87	4.350	14.271	18.460	18.495	0.587	5.550	3.174	50.200
88	4.400	14.436	16.140	16.175	0.613	5.530	3.790	51.500
89	4.450	14.600	24.150	24.183	0.691	5.270	2.857	39.400
90	4.500	14.764	41.160	41.192	0.662	5.060	1.607	28.300
91	4.550	14.928	58.960	58.995	0.788	5.570	1.336	20.400
92	4.600	15.092	60.770	60.807	0.800	5.900	1.316	19.600
93	4.650	15.256	58.520	58.557	1.332	6.000	2.275	22.000
94	4.700	15.420	63.340	63.377	1.172	5.990	1.849	17.600
95	4.750	15.584	104.080	104.117	0.975	5.980	0.936	21.000
96	4.800	15.748	48.910	48.948	0.783	6.120	1.600	19.000
97	4.850	15.912	72.330	72.369	1.701	6.230	2.350	17.500
98	4.900	16.076	85.980	86.018	1.270	6.080	1.476	14.800
99	4.950	16.240	87.400	87.439	1.551	6.200	1.774	14.700
100	5.000	16.404	62.070	62.110	1.403	6.330	2.259	12.600
101	5.050	16.568	73.880	73.919	1.093	6.270	1.479	8.700
102	5.100	16.732	78.520	78.559	1.107	6.210	1.409	9.300
103	5.150	16.896	73.290	73.326	0.588	5.810	0.802	11.900
104	5.200	17.060	70.370	70.408	0.387	6.040	0.550	14.400
105	5.250	17.224	81.770	81.809	0.541	6.180	0.661	9.700
106	5.300	17.388	64.570	64.605	0.611	5.660	0.946	11.200
107	5.350	17.552	57.410	57.447	0.611	5.920	1.064	13.700
108	5.400	17.716	46.290	46.323	0.756	5.280	1.632	14.700
109	5.450	17.880	80.220	80.250	0.715	4.840	0.891	15.300
110	5.500	18.044	88.580	88.614	0.556	5.450	0.627	17.800
111	5.550	18.208	57.760	57.789	0.574	4.660	0.993	17.000
112	5.600	18.372	55.780	55.802	0.180	3.520	0.323	14.500
113	5.650	18.537	75.990	76.014	0.438	3.790	0.576	18.900
114	5.700	18.701	97.960	97.983	0.832	3.700	0.849	25.200
115	5.750	18.865	64.090	64.114	0.682	3.830	1.064	27.100
116	5.800	19.029	36.920	36.944	0.484	3.860	1.310	30.400
117	5.850	19.193	41.150	41.173	0.278	3.650	0.675	36.400
118	5.900	19.357	30.780	30.798	0.214	2.810	0.695	42.600
119	5.950	19.521	54.890	54.909	0.302	3.110	0.550	39.800
120	6.000	19.685	73.090	73.108	0.468	2.840	0.640	49.200
121	6.050	19.849	106.500	106.517	0.320	2.700	0.300	60.100
122	6.100	20.013	195.520	195.536	0.475	2.620	0.243	64.600
123	6.150	20.177	197.530	197.550	0.218	3.190	0.110	73.400
124	6.200	20.341	74.340	74.360	0.312	3.250	0.420	79.200
125	6.250	20.505	60.590	60.609	0.192	3.100	0.317	86.500
126	6.300	20.669	59.860	59.879	0.139	3.000	0.232	89.500
127	6.350	20.833	28.730	28.748	0.081	2.940	0.282	77.700
128	6.400	20.997	27.770	27.789	0.114	3.000	0.410	96.600
129	6.450	21.161	30.230	30.248	0.216	2.920	0.714	94.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	34.160	34.179	0.212	2.990	0.620	82.100
131	6.550	21.489	34.630	34.649	0.331	3.000	0.955	75.600
132	6.600	21.653	41.550	41.568	0.300	2.960	0.722	54.600
133	6.650	21.817	40.450	40.469	0.005	2.980	0.012	39.800
134	6.700	21.981	45.490	45.508	0.156	2.960	0.343	30.600
135	6.750	22.145	43.250	43.268	0.178	2.850	0.411	26.000
136	6.800	22.309	35.300	35.318	0.194	2.810	0.549	22.500
137	6.850	22.473	46.060	46.077	0.223	2.670	0.484	20.100
138	6.900	22.638	56.810	56.826	0.239	2.580	0.421	16.800
139	6.950	22.802	46.140	46.156	0.389	2.540	0.843	15.300
140	7.000	22.966	40.520	40.536	0.474	2.580	1.169	13.500
141	7.050	23.130	47.300	47.315	0.257	2.420	0.543	16.000
142	7.100	23.294	50.990	51.006	0.113	2.600	0.222	19.000
143	7.150	23.458	62.310	62.326	0.022	2.570	0.035	22.200
144	7.200	23.622	57.970	57.987	0.142	2.670	0.245	20.100
145	7.250	23.786	42.960	42.975	0.038	2.480	0.088	16.100
146	7.300	23.950	41.810	41.825	0.112	2.450	0.268	16.300
147	7.350	24.114	48.560	48.575	0.362	2.340	0.745	21.300
148	7.400	24.278	182.920	182.936	1.523	2.590	0.833	15.300
149	7.450	24.442	164.030	164.044	1.521	2.320	0.927	14.400
150	7.500	24.606	125.970	125.983	1.061	2.140	0.842	17.400
151	7.550	24.770	98.310	98.322	0.723	1.970	0.735	17.300
152	7.600	24.934	147.300	147.315	0.705	2.330	0.479	18.300
153	7.650	25.098	218.780	218.796	0.461	2.530	0.211	21.900
154	7.700	25.262	89.290	89.306	0.028	2.550	0.031	23.400
155	7.750	25.426	47.400	47.415	0.597	2.480	1.259	29.000
156	7.800	25.590	37.850	37.864	0.536	2.280	1.416	40.200
157	7.850	25.754	19.610	19.624	0.161	2.240	0.820	42.500
158	7.900	25.918	18.000	18.016	0.070	2.520	0.389	45.700
159	7.950	26.082	17.090	17.107	0.159	2.690	0.929	58.000
160	8.000	26.246	15.280	15.297	0.168	2.670	1.098	65.400
161	8.050	26.410	14.830	14.848	0.090	2.870	0.606	73.200
162	8.100	26.574	14.960	14.978	0.200	2.890	1.335	87.600
163	8.150	26.739	20.050	20.071	0.266	3.330	1.325	84.200
164	8.200	26.903	26.170	26.192	0.316	3.480	1.206	89.600
165	8.250	27.067	31.900	31.921	0.507	3.430	1.588	79.100
166	8.300	27.231	34.820	34.841	0.711	3.370	2.041	62.700
167	8.350	27.395	41.270	41.292	0.734	3.590	1.778	46.100
168	8.400	27.559	89.430	89.455	0.955	3.940	1.068	40.800
169	8.450	27.723	89.270	89.296	1.076	4.170	1.205	27.700
170	8.500	27.887	93.680	93.704	0.818	3.840	0.873	29.500
171	8.550	28.051	121.460	121.488	0.593	4.550	0.488	28.900
172	8.600	28.215	74.600	74.623	0.432	3.650	0.579	25.500
173	8.650	28.379	57.130	57.152	0.363	3.540	0.635	25.300
174	8.700	28.543	75.780	75.802	0.269	3.490	0.355	26.300
175	8.750	28.707	99.150	99.171	0.415	3.340	0.418	22.300
176	8.800	28.871	93.670	93.690	0.555	3.250	0.592	25.900
177	8.850	29.035	83.440	83.459	0.971	2.980	1.163	27.700
178	8.900	29.199	72.420	72.439	0.675	3.020	0.932	32.000
179	8.950	29.363	72.540	72.559	0.662	3.030	0.912	32.100
180	9.000	29.527	52.900	52.920	0.571	3.230	1.079	40.500
181	9.050	29.691	33.490	33.511	0.478	3.390	1.426	40.400
182	9.100	29.855	40.070	40.101	0.490	4.990	1.222	32.400
183	9.150	30.019	28.410	28.448	0.478	6.010	1.680	45.500
184	9.200	30.183	30.490	30.531	0.351	6.570	1.150	41.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	119.210	119.251	0.444	6.520	0.372	37.600
186	9.300	30.511	83.370	83.414	2.493	7.050	2.989	30.300
187	9.350	30.675	82.710	82.753	2.583	6.910	3.121	36.300
188	9.400	30.840	356.460	356.505	5.217	7.220	1.463	29.100
189	9.450	31.004	248.170	248.209	3.511	6.250	1.415	34.300
190	9.500	31.168	89.670	89.708	2.536	6.020	2.827	35.600
191	9.550	31.332	84.180	84.226	1.800	7.320	2.137	39.700
192	9.600	31.496	68.200	68.252	1.287	8.310	1.886	55.100
193	9.650	31.660	48.080	48.132	0.800	8.370	1.662	62.400
194	9.700	31.824	85.010	85.060	1.105	8.030	1.299	72.300
195	9.750	31.988	76.020	76.067	1.382	7.500	1.817	104.800
196	9.800	32.152	29.000	29.046	1.486	7.360	5.116	109.400
197	9.850	32.316	21.000	21.048	1.129	7.680	5.364	107.700
198	9.900	32.480	20.230	20.281	0.760	8.180	3.747	111.700
199	9.950	32.644	15.270	15.323	0.620	8.410	4.046	93.600
200	10.000	32.808	13.090	13.143	0.596	8.540	4.535	111.200
201	10.050	32.972	13.860	13.915	0.472	8.750	3.392	118.800
202	10.100	33.136	16.280	16.335	0.655	8.800	4.010	111.900
203	10.150	33.300	21.730	21.786	0.757	8.940	3.475	101.800
204	10.200	33.464	27.290	27.346	0.958	9.040	3.503	82.200
205	10.250	33.628	41.120	41.176	1.040	9.020	2.526	64.700
206	10.300	33.792	54.730	54.786	1.006	8.920	1.836	52.400
207	10.350	33.956	72.430	72.485	1.398	8.830	1.929	51.500
208	10.400	34.120	50.250	50.302	1.291	8.370	2.566	36.600
209	10.450	34.284	34.310	34.363	1.578	8.430	4.592	32.000
210	10.500	34.448	44.720	44.773	1.322	8.420	2.953	34.300
211	10.550	34.612	30.000	30.048	1.265	7.630	4.210	35.900
212	10.600	34.776	31.330	31.367	1.035	5.860	3.300	36.300
213	10.650	34.941	29.510	29.549	0.967	6.270	3.273	53.900
214	10.700	35.105	13.430	13.469	0.858	6.300	6.370	49.100
215	10.750	35.269	20.060	20.100	0.708	6.440	3.522	40.200
216	10.800	35.433	41.350	41.391	0.672	6.550	1.624	33.100
217	10.850	35.597	18.450	18.491	0.902	6.560	4.878	31.900
218	10.900	35.761	37.770	37.810	1.099	6.360	2.907	23.200
219	10.950	35.925	51.860	51.902	1.982	6.730	3.819	31.500
220	11.000	36.089	72.790	72.836	2.260	7.340	3.103	25.900
221	11.050	36.253	108.060	108.114	3.108	8.650	2.875	37.900
222	11.100	36.417	173.960	174.021	3.995	9.710	2.296	46.100
223	11.150	36.581	85.890	85.950	3.348	9.690	3.895	56.300
224	11.200	36.745	31.090	31.150	2.825	9.560	9.069	72.900
225	11.250	36.909	44.460	44.525	1.424	10.450	3.198	82.000
226	11.300	37.073	56.080	56.146	1.029	10.580	1.833	74.800
227	11.350	37.237	50.180	50.245	1.139	10.420	2.267	81.400
228	11.400	37.401	47.650	47.714	0.865	10.180	1.813	70.500
229	11.450	37.565	49.160	49.220	0.786	9.690	1.597	68.400
230	11.500	37.729	44.250	44.311	0.712	9.790	1.607	78.600
231	11.550	37.893	24.010	24.069	0.581	9.510	2.414	94.400
232	11.600	38.057	18.320	18.378	0.493	9.340	2.683	95.500
233	11.650	38.221	21.600	21.655	0.491	8.880	2.267	100.400
234	11.700	38.385	14.230	14.286	0.463	9.040	3.241	116.300
235	11.750	38.549	15.290	15.348	0.538	9.280	3.505	106.000
236	11.800	38.713	26.870	26.929	0.647	9.490	2.403	97.400
237	11.850	38.877	41.340	41.399	2.069	9.500	4.998	99.900
238	11.900	39.042	107.480	107.538	1.397	9.330	1.299	97.800
239	11.950	39.206	65.490	65.524	2.814	5.470	4.295	94.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	133.580	133.622	2.882	6.690	2.157	97.200
241	12.050	39.534	94.160	94.209	3.603	7.890	3.824	76.800
242	12.100	39.698	107.880	107.932	4.204	8.300	3.895	75.100
243	12.150	39.862	92.110	92.165	3.587	8.790	3.892	60.000
244	12.200	40.026	75.730	75.785	3.150	8.820	4.156	41.500
245	12.250	40.190	106.410	106.466	3.815	8.900	3.583	35.200
246	12.300	40.354	78.630	78.687	4.701	9.160	5.974	28.600
247	12.350	40.518	66.070	66.131	4.239	9.790	6.410	24.300
248	12.400	40.682	173.570	173.635	3.198	10.350	1.842	28.800
249	12.450	40.846	154.490	154.555	4.088	10.370	2.645	30.600
250	12.500	41.010	127.570	127.635	3.955	10.340	3.099	33.900
251	12.550	41.174	114.720	114.786	2.947	10.640	2.567	47.100
252	12.600	41.338	126.240	126.308	3.300	10.870	2.613	55.900
253	12.650	41.502	135.240	135.307	3.063	10.700	2.264	71.700
254	12.700	41.666	65.100	65.168	2.724	10.840	4.180	87.500
255	12.750	41.830	63.920	63.987	2.318	10.730	3.623	97.300
256	12.800	41.994	58.820	58.888	1.938	10.950	3.291	82.400
257	12.850	42.158	68.610	68.678	1.870	10.970	2.723	96.600
258	12.900	42.322	57.910	57.978	1.748	10.940	3.015	87.900
259	12.950	42.486	43.060	43.130	1.474	11.190	3.418	89.500
260	13.000	42.650	36.370	36.440	1.257	11.160	3.450	94.900
261	13.050	42.814	43.420	43.491	1.253	11.310	2.881	84.800
262	13.100	42.978	51.060	51.131	1.436	11.330	2.808	72.400
263	13.150	43.143	51.430	51.501	1.777	11.360	3.450	60.900
264	13.200	43.307	56.800	56.871	1.537	11.320	2.703	47.800
265	13.250	43.471	25.450	25.520	1.240	11.270	4.859	36.900
266	13.300	43.635	24.010	24.079	1.018	11.110	4.228	35.300
267	13.350	43.799	25.530	25.599	0.607	11.080	2.371	35.800
268	13.400	43.963	22.460	22.528	0.746	10.890	3.311	50.400
269	13.450	44.127	30.230	30.298	0.836	10.940	2.759	51.700
270	13.500	44.291	38.560	38.628	0.821	10.900	2.125	65.500
271	13.550	44.455	52.060	52.127	1.222	10.800	2.344	88.200
272	13.600	44.619	57.130	57.198	1.252	10.860	2.189	67.000
273	13.650	44.783	54.880	54.948	1.425	10.830	2.593	64.000
274	13.700	44.947	45.070	45.140	1.494	11.290	3.310	66.500
275	13.750	45.111	59.390	59.463	1.429	11.660	2.403	85.800
276	13.800	45.275	86.840	86.912	1.249	11.570	1.437	91.400
277	13.850	45.439	94.860	94.932	1.314	11.500	1.384	88.900
278	13.900	45.603	96.000	96.072	1.510	11.520	1.572	95.100
279	13.950	45.767	97.770	97.841	1.732	11.450	1.770	90.700
280	14.000	45.931	98.930	99.000	1.915	11.240	1.934	91.400
281	14.050	46.095	94.310	94.380	1.970	11.240	2.087	83.000
282	14.100	46.259	95.340	95.409	1.949	11.090	2.043	91.500
283	14.150	46.423	90.500	90.569	2.061	11.100	2.276	96.700
284	14.200	46.587	85.960	86.029	1.863	11.100	2.166	86.300
285	14.250	46.751	87.090	87.158	1.720	10.960	1.973	80.700
286	14.300	46.915	86.750	86.818	1.730	10.960	1.993	84.500
287	14.350	47.079	83.010	83.078	2.026	10.960	2.439	76.300
288	14.400	47.244	73.030	73.098	2.296	10.870	3.141	59.200
289	14.450	47.408	64.420	64.488	2.439	10.910	3.782	64.200
290	14.500	47.572	68.080	68.148	2.592	10.940	3.803	75.700
291	14.550	47.736	40.780	40.860	2.284	12.770	5.590	79.400
292	14.600	47.900	36.720	36.802	1.575	13.130	4.280	72.600
293	14.650	48.064	39.150	39.234	1.547	13.450	3.943	91.500
294	14.700	48.228	71.940	72.026	2.340	13.710	3.249	81.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	84.060	84.143	3.500	13.370	4.160	75.900
296	14.800	48.556	100.460	100.542	3.834	13.130	3.813	74.200
297	14.850	48.720	94.140	94.218	3.682	12.540	3.908	59.300
298	14.900	48.884	62.930	63.007	3.297	12.410	5.233	58.800
299	14.950	49.048	39.130	39.209	2.490	12.590	6.351	61.800
300	15.000	49.212	67.510	67.598	2.034	14.130	3.009	67.900
301	15.050	49.376	89.630	89.717	1.761	13.970	1.963	62.600
302	15.100	49.540	63.050	63.138	1.918	14.060	3.038	56.500
303	15.150	49.704	47.290	47.377	2.051	13.940	4.329	52.500
304	15.200	49.868	46.660	46.745	1.904	13.590	4.073	35.300
305	15.250	50.032	46.510	46.595	1.729	13.630	3.711	30.900
306	15.300	50.196	60.950	61.036	2.107	13.740	3.452	25.700
307	15.350	50.360	68.220	68.305	2.196	13.600	3.215	29.500
308	15.400	50.524	79.190	79.275	2.289	13.610	2.887	28.600
309	15.450	50.688	97.890	97.975	2.864	13.650	2.923	27.500
310	15.500	50.852	81.990	82.077	2.734	13.940	3.331	26.700
311	15.550	51.016	60.470	60.559	2.748	14.290	4.538	31.800
312	15.600	51.180	68.880	68.968	1.859	14.120	2.695	33.100
313	15.650	51.345	41.810	41.900	1.457	14.350	3.477	43.500
314	15.700	51.509	26.170	26.258	1.053	14.040	4.010	42.900
315	15.750	51.673	30.960	31.047	0.824	13.990	2.654	40.800
316	15.800	51.837	34.600	34.687	0.572	13.960	1.649	49.400
317	15.850	52.001	33.600	33.688	0.649	14.060	1.927	45.400
318	15.900	52.165	37.600	37.689	0.850	14.280	2.255	43.600
319	15.950	52.329	41.370	41.460	0.859	14.380	2.072	44.600
320	16.000	52.493	39.200	39.290	0.932	14.430	2.372	58.000
321	16.050	52.657	48.140	48.231	1.047	14.640	2.171	55.900
322	16.100	52.821	42.490	42.581	1.013	14.520	2.379	63.900
323	16.150	52.985	50.030	50.124	1.594	15.020	3.180	70.300
324	16.200	53.149	84.880	84.972	2.448	14.730	2.881	75.000
325	16.250	53.313	92.370	92.460	2.846	14.370	3.078	78.200
326	16.300	53.477	88.730	88.817	3.694	13.980	4.159	75.100
327	16.350	53.641	79.760	79.847	2.962	13.960	3.710	69.000
328	16.400	53.805	82.780	82.866	3.410	13.770	4.115	81.500
329	16.450	53.969	88.360	88.445	2.535	13.670	2.866	90.100
330	16.500	54.133	69.880	69.963	2.655	13.370	3.795	87.800
331	16.550	54.297	78.740	78.823	2.865	13.240	3.635	74.500
332	16.600	54.461	67.300	67.383	3.138	13.290	4.657	79.800
333	16.650	54.625	65.130	65.213	2.794	13.220	4.284	72.100
334	16.700	54.789	45.190	45.272	2.126	13.180	4.696	80.200
335	16.750	54.953	42.350	42.433	1.918	13.300	4.520	86.500
336	16.800	55.117	50.930	51.014	1.848	13.390	3.623	90.600
337	16.850	55.281	81.730	81.814	2.142	13.380	2.618	121.000
338	16.900	55.446	86.810	86.894	2.535	13.380	2.917	166.700
339	16.950	55.610	58.920	59.002	2.613	13.200	4.429	211.200
340	17.000	55.774	78.010	78.093	2.547	13.270	3.262	307.600
341	17.050	55.938	66.430	66.513	2.384	13.280	3.584	543.700
342	17.100	56.102	64.260	64.344	2.063	13.380	3.206	774.300
343	17.150	56.266	59.180	59.264	1.759	13.410	2.968	956.900
344	17.200	56.430	44.320	44.403	1.444	13.330	3.252	924.800
345	17.250	56.594	36.550	36.633	1.268	13.370	3.461	703.400
346	17.300	56.758	38.030	38.115	1.230	13.540	3.227	455.600
347	17.350	56.922	42.450	42.534	1.611	13.380	3.788	284.300
348	17.400	57.086	49.510	49.592	2.188	13.180	4.412	199.500
349	17.450	57.250	66.530	66.611	2.601	13.010	3.905	126.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
350	17.500	57.414	86.830	86.909	2.648	12.700	3.047	90.700
351	17.550	57.578	113.900	113.981	2.633	12.900	2.310	64.100
352	17.600	57.742	92.930	93.011	2.453	12.940	2.637	62.400
353	17.650	57.906	82.910	82.991	2.091	12.950	2.520	66.800
354	17.700	58.070	57.300	57.382	1.949	13.100	3.397	71.100
355	17.750	58.234	53.860	53.940	2.016	12.800	3.737	0.000
356	17.800	58.398	44.420	44.500	1.891	12.770	4.249	0.000
357	17.850	58.562	42.370	42.451	2.100	12.920	4.947	0.000
358	17.900	58.726	45.830	45.911	1.460	12.960	3.180	0.000
359	17.950	58.890	69.160	69.240	1.347	12.800	1.945	0.000
360	18.000	59.054	57.830	57.910	1.435	12.820	2.478	0.000
361	18.050	59.218	49.110	49.189	1.881	12.640	3.824	0.000
362	18.100	59.382	50.190	50.270	2.340	12.740	4.655	0.000
363	18.150	59.547	50.320	50.398	2.473	12.550	4.907	0.000
364	18.200	59.711	51.050	51.128	2.780	12.440	5.437	0.000
365	18.250	59.875	53.340	53.417	2.745	12.410	5.139	0.000
366	18.300	60.039	42.190	42.266	2.618	12.210	6.194	0.000
367	18.350	60.203	47.270	47.345	2.660	11.940	5.618	0.000
368	18.400	60.367	69.650	69.723	2.271	11.740	3.257	0.000
369	18.450	60.531	122.600	122.674	0.000	11.900	0.000	0.000
370	18.500	60.695	276.910	276.986	0.000	12.230	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221518
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-1C-13A
Cone ID:	224:T1500F15U500
Operator:	DC/YB/AD
CPT Date:	Feb-17-2014
CPT Time:	12:40
CPT File:	13-53075_GP1C-13.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722157.793
Northing / Lat:	4294288.572
Elevation:	146.212
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.140	0.139	0.010	-0.200	7.207	27.300
2	0.100	0.328	0.150	0.149	0.021	-0.180	14.106	42.700
3	0.150	0.492	0.330	0.319	0.034	-1.770	10.660	41.100
4	0.200	0.656	0.070	0.069	0.021	-0.130	30.352	52.900
5	0.250	0.820	2.130	2.135	0.039	0.820	1.827	40.200
6	0.300	0.984	1.930	1.942	0.069	1.880	3.554	63.400
7	0.350	1.148	4.600	4.601	0.083	0.180	1.804	77.900
8	0.400	1.312	2.480	2.489	0.075	1.390	3.014	82.800
9	0.450	1.476	3.100	3.289	0.060	30.340	1.824	66.500
10	0.500	1.640	11.540	11.785	4.331	39.320	36.749	65.300
11	0.550	1.804	431.450	431.469	4.016	3.050	0.931	60.000
12	0.600	1.968	234.960	234.961	7.678	0.170	3.268	59.800
13	0.650	2.133	175.640	175.675	5.077	5.540	2.890	59.600
14	0.700	2.297	162.420	162.432	1.617	1.990	0.995	65.700
15	0.750	2.461	39.910	39.904	1.938	-0.960	4.857	70.500
16	0.800	2.625	45.110	45.163	1.943	8.440	4.302	76.100
17	0.850	2.789	37.150	37.091	1.607	-9.520	4.333	87.400
18	0.900	2.953	58.130	58.086	1.404	-7.120	2.417	82.200
19	0.950	3.117	48.870	48.891	1.413	3.350	2.890	83.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	58.040	58.031	1.279	-1.520	2.204	94.900
21	1.050	3.445	54.110	54.072	1.216	-6.050	2.249	91.900
22	1.100	3.609	46.730	46.665	1.227	-10.410	2.629	90.700
23	1.150	3.773	37.330	37.266	1.114	-10.210	2.989	87.700
24	1.200	3.937	34.980	34.919	1.000	-9.810	2.864	88.100
25	1.250	4.101	38.410	38.358	1.069	-8.320	2.787	82.400
26	1.300	4.265	41.670	41.620	0.572	-8.070	1.374	73.500
27	1.350	4.429	150.380	150.352	0.364	-4.550	0.242	63.400
28	1.400	4.593	330.300	330.299	2.738	-0.130	0.829	54.500
29	1.450	4.757	418.990	418.983	2.522	-1.120	0.602	59.800
30	1.500	4.921	1.170	1.156	2.344	-2.170	202.689	59.000
31	1.550	5.085	1.410	1.396	0.048	-2.260	3.439	62.400
32	1.600	5.249	1.520	1.505	0.044	-2.420	2.924	51.000
33	1.650	5.413	1.070	1.056	0.042	-2.270	3.978	51.900
34	1.700	5.577	1.470	1.456	0.084	-2.170	5.767	46.500
35	1.750	5.741	1.560	1.547	1.383	-2.150	89.423	43.300
36	1.800	5.905	301.540	301.533	2.056	-1.050	0.682	43.700
37	1.850	6.069	71.830	71.887	2.026	9.210	2.818	39.200
38	1.900	6.234	13.050	13.070	1.827	3.140	13.979	39.200
39	1.950	6.398	24.620	24.628	0.356	1.280	1.446	48.400
40	2.000	6.562	12.660	12.718	0.364	9.220	2.862	44.600
41	2.050	6.726	13.090	13.144	0.296	8.710	2.252	48.200
42	2.100	6.890	35.300	35.347	0.582	7.450	1.647	45.800
43	2.150	7.054	58.000	58.009	0.669	1.430	1.153	63.200
44	2.200	7.218	15.840	15.882	0.673	6.650	4.238	66.200
45	2.250	7.382	16.290	16.388	0.424	15.740	2.587	68.700
46	2.300	7.546	14.430	14.457	0.225	4.380	1.556	75.800
47	2.350	7.710	11.720	11.854	0.222	21.480	1.873	69.400
48	2.400	7.874	13.380	13.550	0.213	27.190	1.572	72.700
49	2.450	8.038	19.660	19.817	0.326	25.140	1.645	67.500
50	2.500	8.202	20.500	20.477	0.265	-3.720	1.294	51.600
51	2.550	8.366	29.790	29.699	0.281	-14.600	0.946	45.600
52	2.600	8.530	58.860	58.849	0.457	-1.840	0.777	43.800
53	2.650	8.694	39.310	39.315	0.521	0.740	1.325	49.000
54	2.700	8.858	15.080	15.098	0.433	2.820	2.868	54.900
55	2.750	9.022	19.660	19.677	0.301	2.650	1.530	47.700
56	2.800	9.186	20.200	20.220	0.118	3.260	0.584	53.100
57	2.850	9.350	23.300	23.319	0.110	3.080	0.472	60.300
58	2.900	9.514	24.440	24.462	0.172	3.580	0.703	75.700
59	2.950	9.678	28.850	28.869	0.272	3.060	0.942	89.000
60	3.000	9.842	30.720	30.742	0.300	3.510	0.976	87.800
61	3.050	10.006	25.550	25.570	0.378	3.210	1.478	91.200
62	3.100	10.170	23.520	23.535	0.365	2.390	1.551	73.200
63	3.150	10.335	22.420	22.428	0.358	1.250	1.596	81.700
64	3.200	10.499	21.250	21.264	0.288	2.180	1.354	74.100
65	3.250	10.663	18.030	18.043	0.185	2.050	1.025	58.900
66	3.300	10.827	12.700	12.712	0.095	1.950	0.747	40.000
67	3.350	10.991	7.270	7.272	0.099	0.340	1.361	29.700
68	3.400	11.155	6.160	6.163	0.151	0.530	2.450	34.600
69	3.450	11.319	5.640	5.643	0.094	0.470	1.666	31.800
70	3.500	11.483	25.220	25.223	0.108	0.420	0.428	31.300
71	3.550	11.647	6.320	6.319	0.097	-0.200	1.535	32.200
72	3.600	11.811	3.130	3.134	0.091	0.580	2.904	28.000
73	3.650	11.975	13.890	13.897	0.232	1.100	1.669	40.400
74	3.700	12.139	26.940	26.939	0.323	-0.140	1.199	35.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	19.210	19.218	0.356	1.350	1.852	52.400
76	3.800	12.467	22.180	22.183	0.345	0.520	1.555	61.400
77	3.850	12.631	25.390	25.391	0.257	0.090	1.012	69.100
78	3.900	12.795	15.900	15.900	0.253	-0.060	1.591	79.200
79	3.950	12.959	19.120	19.143	0.262	3.660	1.369	73.100
80	4.000	13.123	28.500	28.504	0.372	0.640	1.305	59.500
81	4.050	13.287	25.820	25.829	0.464	1.510	1.796	53.800
82	4.100	13.451	52.520	52.536	0.567	2.550	1.079	44.000
83	4.150	13.615	82.350	82.354	0.616	0.680	0.748	27.100
84	4.200	13.779	35.620	35.585	0.679	-5.620	1.908	18.500
85	4.250	13.943	19.280	19.323	0.849	6.840	4.394	21.200
86	4.300	14.107	21.290	21.308	0.855	2.870	4.013	19.300
87	4.350	14.271	48.920	48.958	0.677	6.040	1.383	14.500
88	4.400	14.436	62.320	62.307	0.752	-2.050	1.207	18.000
89	4.450	14.600	35.240	35.244	0.695	0.650	1.972	15.000
90	4.500	14.764	35.040	35.048	0.644	1.330	1.837	14.700
91	4.550	14.928	18.430	18.444	0.498	2.200	2.700	17.800
92	4.600	15.092	32.650	32.648	0.639	-0.330	1.957	14.900
93	4.650	15.256	35.880	35.892	0.640	1.850	1.783	21.500
94	4.700	15.420	37.260	37.281	0.652	3.330	1.749	29.900
95	4.750	15.584	13.860	13.881	0.416	3.310	2.997	36.500
96	4.800	15.748	3.110	3.116	0.431	0.930	13.833	38.500
97	4.850	15.912	22.060	22.069	0.354	1.480	1.604	46.000
98	4.900	16.076	15.320	15.329	0.270	1.430	1.761	64.900
99	4.950	16.240	20.450	20.521	0.389	11.330	1.896	80.500
100	5.000	16.404	27.620	27.854	0.321	37.450	1.152	77.900
101	5.050	16.568	35.920	36.089	0.306	27.000	0.848	84.400
102	5.100	16.732	43.560	43.517	0.437	-6.900	1.004	74.200
103	5.150	16.896	37.350	37.311	0.466	-6.210	1.249	71.100
104	5.200	17.060	28.710	28.715	0.483	0.870	1.682	86.600
105	5.250	17.224	24.500	24.921	0.523	67.440	2.099	78.300
106	5.300	17.388	28.960	29.334	0.386	59.910	1.316	87.600
107	5.350	17.552	73.970	74.322	0.732	56.350	0.985	100.300
108	5.400	17.716	122.760	122.756	1.205	-0.640	0.982	92.700
109	5.450	17.880	120.020	119.957	1.804	-10.140	1.504	84.600
110	5.500	18.044	97.300	97.242	1.803	-9.260	1.854	79.800
111	5.550	18.208	80.730	80.671	2.485	-9.520	3.080	66.500
112	5.600	18.372	69.900	69.873	2.396	-4.290	3.429	55.100
113	5.650	18.537	66.980	66.952	2.194	-4.430	3.277	48.700
114	5.700	18.701	23.980	24.012	1.165	5.170	4.852	47.200
115	5.750	18.865	55.550	55.562	1.203	1.980	2.165	54.200
116	5.800	19.029	59.250	59.311	0.885	9.720	1.492	52.200
117	5.850	19.193	44.240	44.268	0.782	4.430	1.767	68.800
118	5.900	19.357	23.850	23.860	0.602	1.620	2.523	77.900
119	5.950	19.521	32.360	32.402	0.488	6.760	1.506	74.200
120	6.000	19.685	38.070	38.083	0.462	2.160	1.213	83.600
121	6.050	19.849	36.560	36.590	0.503	4.850	1.375	79.500
122	6.100	20.013	32.760	32.792	0.713	5.190	2.174	70.200
123	6.150	20.177	28.310	28.470	1.056	25.560	3.709	51.400
124	6.200	20.341	43.300	43.802	1.377	80.480	3.144	50.900
125	6.250	20.505	122.750	122.824	1.034	11.820	0.842	51.600
126	6.300	20.669	148.210	148.205	0.980	-0.860	0.661	46.100
127	6.350	20.833	100.920	100.939	1.112	3.080	1.102	49.000
128	6.400	20.997	27.790	27.843	1.243	8.540	4.464	52.200
129	6.450	21.161	54.620	54.620	1.228	0.080	2.248	56.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	69.000	68.996	0.466	-0.590	0.675	42.700
131	6.550	21.489	80.330	80.380	0.680	8.010	0.846	38.200
132	6.600	21.653	60.860	60.800	0.913	-9.580	1.502	35.900
133	6.650	21.817	50.790	50.841	1.174	8.160	2.309	35.500
134	6.700	21.981	259.170	259.197	1.165	4.260	0.449	32.600
135	6.750	22.145	148.620	148.626	1.144	0.970	0.770	34.900
136	6.800	22.309	59.940	59.909	1.147	-4.930	1.915	42.600
137	6.850	22.473	43.300	43.360	1.047	9.610	2.415	37.100
138	6.900	22.638	33.600	33.986	0.696	61.860	2.048	38.500
139	6.950	22.802	28.050	28.277	0.626	36.350	2.214	35.000
140	7.000	22.966	28.840	28.987	0.725	23.580	2.501	37.000
141	7.050	23.130	35.320	35.383	0.551	10.120	1.557	38.200
142	7.100	23.294	37.100	37.137	0.810	5.970	2.181	34.200
143	7.150	23.458	47.650	47.745	0.825	15.160	1.728	55.400
144	7.200	23.622	43.050	43.097	1.215	7.480	2.819	29.700
145	7.250	23.786	99.950	99.941	1.744	-1.390	1.745	36.200
146	7.300	23.950	69.140	69.160	1.455	3.130	2.104	31.600
147	7.350	24.114	77.730	77.727	1.270	-0.540	1.634	25.100
148	7.400	24.278	51.350	51.350	1.134	-0.050	2.208	20.800
149	7.450	24.442	44.370	44.476	0.549	16.930	1.234	23.300
150	7.500	24.606	35.820	35.972	0.901	24.380	2.505	23.800
151	7.550	24.770	34.990	35.156	1.058	26.590	3.009	16.800
152	7.600	24.934	25.460	25.860	0.937	64.130	3.623	16.300
153	7.650	25.098	20.160	20.467	0.821	49.200	4.011	21.500
154	7.700	25.262	8.810	8.823	0.783	2.120	8.874	19.400
155	7.750	25.426	18.480	18.578	1.349	15.720	7.261	20.600
156	7.800	25.590	93.720	93.781	1.374	9.760	1.465	30.100
157	7.850	25.754	48.840	48.902	1.473	9.890	3.012	30.100
158	7.900	25.918	46.900	47.133	0.923	37.400	1.958	28.500
159	7.950	26.082	44.190	44.255	0.786	10.450	1.776	29.200
160	8.000	26.246	41.070	41.208	1.807	22.100	4.385	35.500
161	8.050	26.410	27.410	27.572	0.784	25.950	2.843	44.900
162	8.100	26.574	71.450	71.495	0.681	7.180	0.953	41.400
163	8.150	26.739	84.040	84.047	1.334	1.150	1.587	52.400
164	8.200	26.903	57.210	57.220	1.047	1.530	1.830	65.000
165	8.250	27.067	29.080	29.083	1.012	0.450	3.480	74.900
166	8.300	27.231	28.560	28.797	0.744	37.890	2.584	91.400
167	8.350	27.395	37.800	37.771	1.098	-4.600	2.907	92.200
168	8.400	27.559	44.690	44.825	1.592	21.610	3.552	95.600
169	8.450	27.723	45.170	45.234	1.417	10.310	3.133	88.700
170	8.500	27.887	51.010	51.188	1.462	28.550	2.856	88.000
171	8.550	28.051	65.540	65.594	1.420	8.660	2.165	84.700
172	8.600	28.215	60.260	60.259	1.372	-0.100	2.277	76.300
173	8.650	28.379	49.660	49.638	1.149	-3.590	2.315	67.900
174	8.700	28.543	39.480	39.509	1.102	4.720	2.789	61.300
175	8.750	28.707	36.210	36.218	1.010	1.350	2.789	63.600
176	8.800	28.871	30.950	31.031	1.194	12.910	3.848	69.600
177	8.850	29.035	43.990	44.089	1.197	15.870	2.715	71.800
178	8.900	29.199	55.070	55.117	1.071	7.500	1.943	77.400
179	8.950	29.363	58.830	58.822	1.008	-1.280	1.714	82.900
180	9.000	29.527	56.780	56.760	1.134	-3.200	1.998	70.000
181	9.050	29.691	47.770	47.747	1.125	-3.750	2.356	59.000
182	9.100	29.855	51.960	51.924	1.257	-5.720	2.421	43.100
183	9.150	30.019	50.720	50.722	1.283	0.330	2.529	35.300
184	9.200	30.183	43.620	43.677	2.076	9.120	4.753	30.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	66.250	66.281	2.285	4.980	3.447	25.400
186	9.300	30.511	152.700	152.844	7.598	22.990	4.971	18.700
187	9.350	30.675	49.190	49.321	7.285	20.970	14.771	11.600
188	9.400	30.840	8.370	8.382	4.736	1.860	56.505	14.100
189	9.450	31.004	2.550	2.556	8.219	0.960	321.558	10.600
190	9.500	31.168	73.800	73.837	4.664	5.860	6.317	16.000
191	9.550	31.332	329.450	329.467	6.206	2.660	1.884	27.100
192	9.600	31.496	412.560	412.548	6.377	-1.900	1.546	29.200
193	9.650	31.660	41.320	41.375	6.230	8.770	15.057	35.100
194	9.700	31.824	52.500	52.580	1.246	12.840	2.370	41.900
195	9.750	31.988	26.670	26.747	1.007	12.290	3.765	54.600
196	9.800	32.152	17.700	17.770	0.710	11.260	3.995	59.400
197	9.850	32.316	23.050	23.260	0.723	33.670	3.108	71.600
198	9.900	32.480	30.140	30.266	0.941	20.200	3.109	51.600
199	9.950	32.644	41.270	41.308	0.887	6.040	2.147	41.400
200	10.000	32.808	45.300	45.301	1.415	0.180	3.124	30.800
201	10.050	32.972	53.330	53.307	1.545	-3.750	2.898	32.200
202	10.100	33.136	53.630	53.709	2.369	12.660	4.411	22.900
203	10.150	33.300	94.790	94.868	2.544	12.520	2.682	40.100
204	10.200	33.464	94.710	95.133	2.484	67.780	2.611	48.200
205	10.250	33.628	97.840	97.881	1.971	6.540	2.014	58.200
206	10.300	33.792	104.050	104.085	2.020	5.610	1.941	71.800
207	10.350	33.956	74.010	74.334	2.193	51.860	2.950	89.400
208	10.400	34.120	61.530	61.626	2.220	15.340	3.602	107.300
209	10.450	34.284	57.750	57.849	1.809	15.830	3.127	85.200
210	10.500	34.448	48.340	48.444	2.043	16.710	4.217	81.000
211	10.550	34.612	69.280	69.375	1.551	15.290	2.236	66.600
212	10.600	34.776	119.860	119.915	0.875	8.800	0.730	54.400
213	10.650	34.941	97.430	97.453	1.044	3.650	1.071	43.200
214	10.700	35.105	94.570	94.604	1.627	5.430	1.720	28.000
215	10.750	35.269	59.010	59.017	1.825	1.130	3.092	34.300
216	10.800	35.433	47.340	47.375	1.745	5.670	3.683	34.000
217	10.850	35.597	47.940	47.999	1.298	9.440	2.704	23.500
218	10.900	35.761	29.080	29.098	1.173	2.850	4.031	23.800
219	10.950	35.925	29.450	29.492	1.097	6.690	3.720	23.500
220	11.000	36.089	33.300	33.345	1.071	7.150	3.212	29.900
221	11.050	36.253	61.270	61.291	1.148	3.310	1.873	34.200
222	11.100	36.417	56.530	56.555	1.069	4.050	1.890	39.500
223	11.150	36.581	52.770	52.813	0.897	6.850	1.698	39.500
224	11.200	36.745	53.890	53.900	0.763	1.590	1.416	41.400
225	11.250	36.909	45.570	45.590	1.101	3.270	2.415	35.400
226	11.300	37.073	47.540	47.577	1.728	5.920	3.632	27.500
227	11.350	37.237	68.120	68.163	1.676	6.880	2.459	24.500
228	11.400	37.401	97.940	98.395	1.768	72.930	1.797	19.300
229	11.450	37.565	137.070	137.163	2.228	14.880	1.624	19.700
230	11.500	37.729	78.080	78.115	1.828	5.580	2.340	17.500
231	11.550	37.893	40.310	40.344	1.529	5.490	3.790	18.500
232	11.600	38.057	47.390	47.445	1.020	8.780	2.150	23.500
233	11.650	38.221	39.330	39.361	1.023	5.020	2.599	31.300
234	11.700	38.385	45.810	45.841	0.590	4.960	1.287	31.300
235	11.750	38.549	50.800	50.808	0.662	1.280	1.303	31.900
236	11.800	38.713	46.460	46.452	0.945	-1.290	2.034	30.500
237	11.850	38.877	29.800	29.821	0.845	3.290	2.834	29.400
238	11.900	39.042	55.740	55.752	0.872	1.990	1.564	18.500
239	11.950	39.206	43.620	43.670	1.014	8.080	2.322	17.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	30.250	30.315	1.088	10.450	3.589	15.500
241	12.050	39.534	47.650	47.790	0.875	22.410	1.831	13.900
242	12.100	39.698	17.770	17.779	0.661	1.450	3.718	14.400
243	12.150	39.862	7.870	7.898	0.386	4.460	4.887	15.000
244	12.200	40.026	2.980	2.986	0.414	0.890	13.867	21.100
245	12.250	40.190	8.470	8.574	0.944	16.660	11.010	23.100
246	12.300	40.354	25.370	25.487	1.240	18.680	4.865	32.500
247	12.350	40.518	37.800	37.865	1.361	10.460	3.594	41.000
248	12.400	40.682	56.290	56.535	1.716	39.290	3.035	42.200
249	12.450	40.846	101.670	101.652	1.641	-2.830	1.614	35.500
250	12.500	41.010	103.670	103.635	1.475	-5.660	1.423	40.100
251	12.550	41.174	107.990	107.964	1.798	-4.160	1.665	28.800
252	12.600	41.338	96.670	96.656	1.532	-2.170	1.585	22.700
253	12.650	41.502	32.810	32.829	1.152	2.980	3.509	23.100
254	12.700	41.666	18.810	18.843	1.399	5.270	7.425	22.500
255	12.750	41.830	18.390	18.420	1.969	4.860	10.689	26.100
256	12.800	41.994	53.590	53.678	1.823	14.080	3.396	25.300
257	12.850	42.158	76.390	76.511	1.917	19.320	2.506	23.900
258	12.900	42.322	63.180	63.305	1.890	20.050	2.986	29.700
259	12.950	42.486	33.540	33.740	1.511	32.050	4.478	34.400
260	13.000	42.650	32.590	33.164	0.984	92.010	2.967	29.900
261	13.050	42.814	33.740	34.198	0.845	73.340	2.471	15.400
262	13.100	42.978	19.580	19.816	1.015	37.760	5.122	12.500
263	13.150	43.143	30.160	30.779	1.021	99.200	3.317	12.600
264	13.200	43.307	32.360	32.554	0.818	31.140	2.513	12.500
265	13.250	43.471	25.260	25.299	0.612	6.320	2.419	12.300
266	13.300	43.635	14.210	14.225	0.427	2.360	3.002	13.800
267	13.350	43.799	16.140	16.156	0.377	2.510	2.334	15.200
268	13.400	43.963	17.660	17.693	0.583	5.230	3.295	14.000
269	13.450	44.127	20.230	20.287	0.609	9.060	3.002	16.400
270	13.500	44.291	32.390	32.425	1.202	5.580	3.707	18.200
271	13.550	44.455	49.800	49.953	1.271	24.430	2.544	21.900
272	13.600	44.619	45.930	45.976	1.355	7.420	2.947	0.000
273	13.650	44.783	43.470	43.585	1.166	18.480	2.675	0.000
274	13.700	44.947	21.050	21.174	0.933	19.890	4.406	0.000
275	13.750	45.111	19.420	19.562	0.901	22.710	4.606	0.000
276	13.800	45.275	20.590	20.697	0.743	17.120	3.590	0.000
277	13.850	45.439	32.600	32.754	1.016	24.660	3.102	0.000
278	13.900	45.603	85.680	85.828	1.367	23.630	1.593	0.000
279	13.950	45.767	40.020	40.100	1.196	12.810	2.983	0.000
280	14.000	45.931	39.870	39.915	1.694	7.260	4.244	0.000
281	14.050	46.095	26.180	26.255	1.427	11.990	5.435	0.000
282	14.100	46.259	39.130	39.164	1.222	5.490	3.120	0.000
283	14.150	46.423	27.300	27.308	0.974	1.210	3.567	0.000
284	14.200	46.587	33.160	33.230	1.776	11.220	5.345	0.000
285	14.250	46.751	40.520	40.541	2.458	3.380	6.063	0.000
286	14.300	46.915	134.400	134.481	0.000	12.960	0.000	0.000
287	14.350	47.079	465.600	465.636	0.000	5.760	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221662
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-28
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-13-2013
CPT Time:	13:39
CPT File:	13-53075_GP28.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722206.813
Northing / Lat:	4294372.783
Elevation:	146.326
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	43.240	43.241	0.176	0.170	0.407	55.500
2	0.100	0.328	41.880	41.881	0.281	0.100	0.671	71.000
3	0.150	0.492	40.480	40.483	0.511	0.500	1.262	79.000
4	0.200	0.656	21.480	21.483	0.644	0.460	2.998	104.100
5	0.250	0.820	13.010	13.020	0.752	1.550	5.776	96.200
6	0.300	0.984	14.080	14.060	0.934	-3.180	6.643	100.800
7	0.350	1.148	36.950	36.931	1.161	-3.010	3.144	122.200
8	0.400	1.312	35.430	35.427	1.383	-0.510	3.904	110.200
9	0.450	1.476	27.910	27.912	1.197	0.320	4.288	106.300
10	0.500	1.640	33.600	33.599	1.497	-0.150	4.455	111.100
11	0.550	1.804	38.410	38.413	1.371	0.540	3.569	102.200
12	0.600	1.968	37.460	37.461	1.811	0.100	4.834	101.300
13	0.650	2.133	40.770	40.771	1.248	0.100	3.061	88.300
14	0.700	2.297	47.900	47.904	1.226	0.580	2.559	88.100
15	0.750	2.461	49.910	49.919	0.862	1.470	1.727	82.700
16	0.800	2.625	34.860	34.861	0.745	0.230	2.137	90.100
17	0.850	2.789	25.520	25.525	0.797	0.860	3.122	93.300
18	0.900	2.953	30.250	30.252	0.547	0.370	1.808	92.600
19	0.950	3.117	31.340	31.345	0.918	0.740	2.929	96.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	32.640	32.646	0.926	1.030	2.836	85.900
21	1.050	3.445	25.680	25.685	0.732	0.810	2.850	107.200
22	1.100	3.609	26.390	26.393	0.419	0.470	1.588	81.700
23	1.150	3.773	25.660	25.658	0.445	-0.320	1.734	96.900
24	1.200	3.937	24.890	24.891	0.524	0.230	2.105	94.400
25	1.250	4.101	22.390	22.391	0.680	0.110	3.037	91.100
26	1.300	4.265	24.760	24.760	0.789	0.000	3.187	92.000
27	1.350	4.429	22.750	22.749	0.814	-0.120	3.578	97.000
28	1.400	4.593	20.730	20.731	0.712	0.090	3.435	98.200
29	1.450	4.757	19.090	19.092	0.670	0.260	3.509	95.700
30	1.500	4.921	17.000	17.001	0.639	0.170	3.759	92.400
31	1.550	5.085	18.290	18.291	0.607	0.120	3.319	94.100
32	1.600	5.249	16.050	16.050	0.545	-0.060	3.396	78.000
33	1.650	5.413	13.980	13.980	0.554	0.070	3.963	86.800
34	1.700	5.577	12.640	12.640	0.485	-0.050	3.837	79.600
35	1.750	5.741	11.500	11.498	0.420	-0.380	3.653	93.200
36	1.800	5.905	9.910	9.907	0.350	-0.550	3.533	85.900
37	1.850	6.069	10.340	10.328	0.331	-1.870	3.205	84.200
38	1.900	6.234	11.670	11.664	0.361	-0.940	3.095	83.800
39	1.950	6.398	11.560	11.556	0.365	-0.570	3.158	87.900
40	2.000	6.562	10.050	10.043	0.326	-1.190	3.246	84.300
41	2.050	6.726	9.080	9.076	0.312	-0.590	3.438	99.100
42	2.100	6.890	8.050	8.046	0.269	-0.660	3.343	99.600
43	2.150	7.054	9.950	9.939	0.306	-1.720	3.079	95.600
44	2.200	7.218	10.320	10.306	0.285	-2.280	2.765	81.400
45	2.250	7.382	10.110	10.103	0.324	-1.070	3.207	90.500
46	2.300	7.546	9.610	9.598	0.341	-1.900	3.553	81.800
47	2.350	7.710	9.390	9.385	0.360	-0.810	3.836	91.900
48	2.400	7.874	8.330	8.321	0.282	-1.370	3.389	95.600
49	2.450	8.038	8.690	8.683	0.587	-1.190	6.761	96.200
50	2.500	8.202	17.980	17.978	0.591	-0.290	3.287	103.300
51	2.550	8.366	8.650	8.647	0.565	-0.470	6.534	96.500
52	2.600	8.530	8.230	8.226	0.331	-0.620	4.024	98.900
53	2.650	8.694	8.250	8.229	0.334	-3.380	4.059	96.700
54	2.700	8.858	8.020	8.018	0.335	-0.350	4.178	100.900
55	2.750	9.022	9.150	9.146	0.347	-0.630	3.794	95.200
56	2.800	9.186	9.670	9.646	0.369	-3.770	3.825	92.200
57	2.850	9.350	7.780	7.776	0.386	-0.570	4.964	86.500
58	2.900	9.514	8.490	8.482	0.276	-1.220	3.254	83.500
59	2.950	9.678	9.340	9.335	0.292	-0.860	3.128	100.200
60	3.000	9.842	171.970	171.965	0.234	-0.810	0.136	84.200
61	3.050	10.006	181.820	181.817	0.346	-0.530	0.190	77.000
62	3.100	10.170	175.450	175.448	0.430	-0.350	0.245	74.400
63	3.150	10.335	54.160	54.158	1.767	-0.360	3.263	75.900
64	3.200	10.499	49.150	49.151	1.731	0.090	3.522	83.700
65	3.250	10.663	17.700	17.705	1.605	0.740	9.065	89.300
66	3.300	10.827	20.940	20.941	0.717	0.090	3.424	88.500
67	3.350	10.991	10.380	10.380	0.606	0.050	5.838	93.300
68	3.400	11.155	7.900	7.920	0.560	3.260	7.070	98.800
69	3.450	11.319	9.970	9.989	0.488	3.090	4.885	86.500
70	3.500	11.483	10.730	10.721	0.550	-1.460	5.130	91.300
71	3.550	11.647	10.960	10.967	0.597	1.060	5.444	93.700
72	3.600	11.811	13.130	13.137	0.580	1.050	4.415	92.500
73	3.650	11.975	12.820	12.824	0.495	0.680	3.860	107.800
74	3.700	12.139	10.320	10.322	0.435	0.290	4.214	103.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	11.180	11.178	0.257	-0.350	2.299	110.400
76	3.800	12.467	14.680	14.677	0.169	-0.410	1.151	97.600
77	3.850	12.631	20.520	20.518	0.207	-0.400	1.009	103.000
78	3.900	12.795	21.730	21.729	0.304	-0.120	1.399	84.200
79	3.950	12.959	19.100	19.099	0.350	-0.150	1.833	84.800
80	4.000	13.123	21.710	21.704	0.406	-1.040	1.871	76.700
81	4.050	13.287	26.290	26.277	0.463	-2.070	1.762	70.800
82	4.100	13.451	26.560	26.535	0.615	-4.070	2.318	54.300
83	4.150	13.615	27.440	27.418	0.639	-3.540	2.331	48.900
84	4.200	13.779	17.120	17.094	0.607	-4.240	3.551	42.300
85	4.250	13.943	12.160	12.155	0.446	-0.860	3.669	33.800
86	4.300	14.107	2.720	2.718	0.324	-0.340	11.921	35.500
87	4.350	14.271	9.400	9.396	0.295	-0.570	3.139	21.800
88	4.400	14.436	3.470	3.462	0.272	-1.210	7.856	29.100
89	4.450	14.600	3.820	3.820	0.304	0.010	7.958	28.700
90	4.500	14.764	5.450	5.456	0.238	0.940	4.362	28.000
91	4.550	14.928	6.130	6.142	0.232	1.910	3.777	31.400
92	4.600	15.092	12.900	12.906	0.298	0.940	2.309	29.900
93	4.650	15.256	8.920	8.928	0.311	1.240	3.484	40.600
94	4.700	15.420	14.870	14.886	0.377	2.500	2.533	43.800
95	4.750	15.584	19.230	19.235	0.292	0.780	1.518	59.200
96	4.800	15.748	8.200	8.207	0.285	1.190	3.472	66.700
97	4.850	15.912	6.480	6.492	0.282	1.880	4.344	77.300
98	4.900	16.076	9.150	9.157	0.212	1.050	2.315	79.100
99	4.950	16.240	4.230	4.234	0.150	0.710	3.542	82.100
100	5.000	16.404	7.810	7.815	0.196	0.860	2.508	83.600
101	5.050	16.568	8.630	8.638	0.184	1.330	2.130	71.600
102	5.100	16.732	10.540	10.554	0.350	2.260	3.316	68.800
103	5.150	16.896	12.490	12.524	0.349	5.490	2.787	56.000
104	5.200	17.060	22.040	22.098	0.439	9.220	1.987	57.000
105	5.250	17.224	19.640	19.675	0.669	5.620	3.400	47.900
106	5.300	17.388	25.750	25.770	0.784	3.240	3.042	49.100
107	5.350	17.552	20.100	20.093	0.520	-1.160	2.588	0.000
108	5.400	17.716	18.680	18.660	1.317	-3.190	7.058	0.000
109	5.450	17.880	230.760	230.744	1.463	-2.640	0.634	0.000
110	5.500	18.044	295.690	295.697	1.112	1.160	0.376	0.000
111	5.550	18.208	172.470	172.469	1.532	-0.180	0.888	0.000
112	5.600	18.372	104.530	104.529	3.849	-0.230	3.682	0.000
113	5.650	18.537	141.980	141.981	2.346	0.230	1.652	0.000
114	5.700	18.701	109.730	109.729	2.868	-0.110	2.614	0.000
115	5.750	18.865	136.430	136.426	3.426	-0.720	2.511	0.000
116	5.800	19.029	107.370	107.370	1.542	-0.040	1.436	0.000
117	5.850	19.193	201.090	201.088	2.919	-0.320	1.452	0.000
118	5.900	19.357	222.620	222.616	4.945	-0.690	2.221	0.000
119	5.950	19.521	205.580	205.584	6.014	0.610	2.925	0.000
120	6.000	19.685	181.490	181.489	5.637	-0.200	3.106	0.000
121	6.050	19.849	195.880	195.878	0.000	-0.270	0.000	0.000
122	6.100	20.013	357.790	357.786	0.000	-0.630	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221663
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-28A
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-14-2013
CPT Time:	06:48
CPT File:	13-53075_GP28A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722207.118
Northing / Lat:	4294372.783
Elevation:	146.337
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.800	2.813	0.002	2.130	0.071	27.800
2	0.100	0.328	14.280	14.298	0.075	2.820	0.525	32.100
3	0.150	0.492	58.020	58.025	0.400	0.770	0.689	42.000
4	0.200	0.656	60.950	60.956	0.292	0.980	0.479	54.200
5	0.250	0.820	55.050	55.049	0.407	-0.120	0.739	65.000
6	0.300	0.984	42.640	42.640	0.532	0.050	1.248	86.900
7	0.350	1.148	16.070	16.072	0.793	0.380	4.934	92.600
8	0.400	1.312	18.670	18.673	1.019	0.560	5.457	107.200
9	0.450	1.476	24.980	24.967	1.205	-2.010	4.826	103.300
10	0.500	1.640	35.300	35.286	1.376	-2.260	3.900	109.500
11	0.550	1.804	43.280	43.288	2.529	1.290	5.842	102.100
12	0.600	1.968	60.910	60.916	2.453	0.900	4.027	96.900
13	0.650	2.133	333.570	333.574	2.128	0.620	0.638	74.600
14	0.700	2.297	319.860	319.865	5.966	0.790	1.865	67.900
15	0.750	2.461	255.670	255.672	7.048	0.260	2.757	62.200
16	0.800	2.625	130.490	130.492	6.433	0.370	4.930	70.400
17	0.850	2.789	59.390	59.392	4.409	0.330	7.424	72.600
18	0.900	2.953	77.220	77.223	1.359	0.470	1.760	76.300
19	0.950	3.117	59.060	59.071	1.185	1.840	2.006	93.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	40.790	40.796	1.265	1.040	3.101	94.300
21	1.050	3.445	33.740	33.750	1.266	1.550	3.751	103.100
22	1.100	3.609	29.270	29.279	1.141	1.460	3.897	93.300
23	1.150	3.773	30.620	30.631	1.157	1.710	3.777	94.700
24	1.200	3.937	25.570	25.578	1.108	1.330	4.332	101.400
25	1.250	4.101	25.950	25.958	0.984	1.330	3.791	96.700
26	1.300	4.265	26.080	26.088	1.009	1.310	3.868	102.300
27	1.350	4.429	26.570	26.576	0.892	1.040	3.356	87.000
28	1.400	4.593	27.930	27.938	0.902	1.310	3.229	91.400
29	1.450	4.757	27.770	27.775	0.774	0.830	2.787	95.000
30	1.500	4.921	28.450	28.455	0.786	0.880	2.762	103.900
31	1.550	5.085	25.430	25.430	0.810	-0.070	3.185	81.800
32	1.600	5.249	23.630	23.631	0.747	0.090	3.161	87.100
33	1.650	5.413	21.430	21.430	0.641	-0.040	2.991	91.400
34	1.700	5.577	19.140	19.140	0.566	0.080	2.957	96.100
35	1.750	5.741	17.860	17.862	0.541	0.280	3.029	96.700
36	1.800	5.905	17.560	17.562	0.510	0.350	2.904	89.300
37	1.850	6.069	16.680	16.688	0.471	1.350	2.822	90.000
38	1.900	6.234	15.010	15.011	0.388	0.240	2.585	90.500
39	1.950	6.398	13.380	13.381	0.353	0.160	2.638	92.900
40	2.000	6.562	13.710	13.710	0.389	-0.050	2.837	81.100
41	2.050	6.726	14.430	14.434	0.377	0.710	2.612	98.600
42	2.100	6.890	13.010	13.014	0.347	0.650	2.666	91.800
43	2.150	7.054	11.050	11.049	0.305	-0.170	2.760	89.300
44	2.200	7.218	10.640	10.639	0.287	-0.130	2.698	91.900
45	2.250	7.382	10.000	10.005	0.303	0.770	3.029	88.100
46	2.300	7.546	9.930	9.934	0.323	0.570	3.252	100.100
47	2.350	7.710	9.840	9.845	0.338	0.810	3.433	89.100
48	2.400	7.874	9.750	9.755	0.336	0.820	3.444	97.200
49	2.450	8.038	9.740	9.742	0.334	0.290	3.429	92.200
50	2.500	8.202	9.210	9.212	0.327	0.380	3.550	96.400
51	2.550	8.366	9.320	9.321	0.335	0.220	3.594	94.200
52	2.600	8.530	9.760	9.760	0.330	0.020	3.381	89.200
53	2.650	8.694	9.780	9.781	0.286	0.090	2.924	100.000
54	2.700	8.858	10.280	10.280	0.235	-0.030	2.286	98.600
55	2.750	9.022	10.160	10.158	0.206	-0.400	2.028	98.700
56	2.800	9.186	9.740	9.739	0.265	-0.170	2.721	94.200
57	2.850	9.350	9.620	9.618	0.314	-0.320	3.265	92.100
58	2.900	9.514	9.720	9.720	0.326	-0.060	3.354	87.500
59	2.950	9.678	10.130	10.131	0.340	0.230	3.356	91.000
60	3.000	9.842	9.820	9.820	0.309	0.030	3.147	97.300
61	3.050	10.006	10.500	10.501	0.245	0.110	2.333	99.900
62	3.100	10.170	15.700	15.704	0.190	0.680	1.210	101.300
63	3.150	10.335	13.710	13.711	0.163	0.100	1.189	87.100
64	3.200	10.499	11.190	11.191	0.218	0.140	1.948	101.800
65	3.250	10.663	10.450	10.451	0.279	0.180	2.670	99.800
66	3.300	10.827	9.710	9.713	0.298	0.460	3.068	95.000
67	3.350	10.991	9.410	9.412	0.293	0.360	3.113	88.300
68	3.400	11.155	9.390	9.393	0.297	0.550	3.162	90.400
69	3.450	11.319	9.570	9.571	0.297	0.130	3.103	90.700
70	3.500	11.483	10.010	10.017	0.306	1.080	3.055	90.200
71	3.550	11.647	9.560	9.565	0.311	0.740	3.252	103.800
72	3.600	11.811	9.500	9.503	0.313	0.480	3.294	105.600
73	3.650	11.975	11.190	11.199	0.336	1.510	3.000	107.700
74	3.700	12.139	11.380	11.392	0.352	1.980	3.090	113.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	12.190	12.204	0.381	2.260	3.122	107.300
76	3.800	12.467	16.960	16.971	0.480	1.760	2.828	103.600
77	3.850	12.631	27.810	27.833	0.753	3.730	2.705	102.000
78	3.900	12.795	34.130	34.149	1.062	3.050	3.110	104.300
79	3.950	12.959	32.600	32.618	1.111	2.850	3.406	104.200
80	4.000	13.123	30.820	30.837	1.007	2.720	3.266	105.100
81	4.050	13.287	30.320	30.332	0.870	1.940	2.868	99.300
82	4.100	13.451	33.440	33.449	0.810	1.460	2.422	101.500
83	4.150	13.615	31.640	31.635	0.701	-0.790	2.216	94.500
84	4.200	13.779	28.960	28.952	0.581	-1.240	2.007	92.900
85	4.250	13.943	18.820	18.810	0.463	-1.620	2.461	96.800
86	4.300	14.107	26.590	26.587	0.276	-0.420	1.038	96.500
87	4.350	14.271	59.840	59.852	0.295	1.980	0.493	102.600
88	4.400	14.436	61.160	61.157	0.667	-0.430	1.091	74.100
89	4.450	14.600	30.880	30.880	0.481	0.070	1.558	72.200
90	4.500	14.764	25.210	25.213	0.484	0.410	1.920	48.100
91	4.550	14.928	15.010	15.019	0.485	1.450	3.229	41.100
92	4.600	15.092	14.770	14.779	0.485	1.420	3.282	40.900
93	4.650	15.256	14.610	14.619	0.775	1.510	5.301	20.800
94	4.700	15.420	14.320	14.330	0.757	1.590	5.283	21.600
95	4.750	15.584	36.200	36.203	0.318	0.410	0.878	24.800
96	4.800	15.748	41.170	41.194	0.390	3.910	0.947	26.200
97	4.850	15.912	37.960	37.960	0.386	-0.030	1.017	24.200
98	4.900	16.076	38.740	38.754	0.296	2.310	0.764	32.100
99	4.950	16.240	33.200	33.244	0.546	7.040	1.642	37.400
100	5.000	16.404	26.940	26.987	0.437	7.460	1.619	49.400
101	5.050	16.568	22.820	22.867	0.458	7.540	2.003	54.000
102	5.100	16.732	21.590	21.617	0.366	4.350	1.693	70.700
103	5.150	16.896	20.450	20.479	0.262	4.600	1.279	74.700
104	5.200	17.060	25.100	25.130	0.228	4.800	0.907	82.900
105	5.250	17.224	27.810	27.878	0.172	10.960	0.617	103.200
106	5.300	17.388	29.090	29.149	0.120	9.390	0.412	243.000
107	5.350	17.552	28.450	28.506	0.106	9.040	0.372	171.400
108	5.400	17.716	26.340	26.385	0.230	7.280	0.872	116.000
109	5.450	17.880	25.920	25.959	0.225	6.250	0.867	16.500
110	5.500	18.044	32.260	32.297	0.259	5.890	0.802	44.000
111	5.550	18.208	39.530	39.571	0.296	6.580	0.748	43.200
112	5.600	18.372	41.560	41.602	0.582	6.770	1.399	43.600
113	5.650	18.537	37.010	37.049	0.460	6.220	1.242	44.000
114	5.700	18.701	100.450	100.481	0.521	5.040	0.519	53.600
115	5.750	18.865	55.050	55.055	0.476	0.740	0.865	212.000
116	5.800	19.029	41.990	42.019	0.963	4.600	2.292	69.200
117	5.850	19.193	54.490	54.501	0.906	1.840	1.662	199.600
118	5.900	19.357	55.970	55.966	0.685	-0.630	1.224	43.400
119	5.950	19.521	124.900	124.938	0.797	6.010	0.638	45.600
120	6.000	19.685	103.380	103.381	0.828	0.090	0.801	42.000
121	6.050	19.849	187.760	187.762	0.962	0.340	0.512	55.000
122	6.100	20.013	209.320	209.320	3.063	0.080	1.463	77.000
123	6.150	20.177	164.030	164.035	4.248	0.770	2.590	86.800
124	6.200	20.341	238.260	238.258	7.723	-0.250	3.241	41.100
125	6.250	20.505	240.130	240.130	5.275	0.030	2.197	30.900
126	6.300	20.669	156.200	156.205	2.416	0.840	1.547	28.900
127	6.350	20.833	58.330	58.337	3.867	1.050	6.629	26.900
128	6.400	20.997	121.500	121.499	5.403	-0.120	4.447	28.300
129	6.450	21.161	231.770	231.770	4.278	-0.010	1.846	26.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	257.330	257.331	1.506	0.100	0.585	33.200
131	6.550	21.489	330.070	330.071	2.277	0.190	0.690	31.200
132	6.600	21.653	165.420	165.422	3.729	0.330	2.254	29.700
133	6.650	21.817	173.910	173.913	1.771	0.480	1.018	33.100
134	6.700	21.981	142.970	142.975	3.480	0.730	2.434	31.000
135	6.750	22.145	64.050	64.060	3.352	1.590	5.233	31.900
136	6.800	22.309	152.190	152.193	2.476	0.560	1.627	41.400
137	6.850	22.473	161.920	161.924	1.983	0.640	1.225	43.200
138	6.900	22.638	80.050	80.053	1.496	0.540	1.869	50.100
139	6.950	22.802	126.980	126.983	2.577	0.560	2.029	44.600
140	7.000	22.966	41.880	41.886	4.354	0.890	10.395	53.500
141	7.050	23.130	72.860	72.861	4.021	0.090	5.519	53.400
142	7.100	23.294	290.210	290.214	2.397	0.620	0.826	63.800
143	7.150	23.458	198.680	198.684	2.424	0.620	1.220	69.700
144	7.200	23.622	68.560	68.563	2.719	0.450	3.966	96.000
145	7.250	23.786	77.600	77.603	2.159	0.500	2.782	126.000
146	7.300	23.950	39.400	39.405	0.740	0.750	1.878	163.200
147	7.350	24.114	21.570	21.584	0.568	2.170	2.632	236.700
148	7.400	24.278	35.270	35.255	0.525	-2.460	1.489	408.200
149	7.450	24.442	30.080	30.084	0.820	0.580	2.726	551.000
150	7.500	24.606	33.630	33.628	0.683	-0.300	2.031	861.400
151	7.550	24.770	10.150	10.179	0.558	4.630	5.482	1164.100
152	7.600	24.934	13.060	13.110	0.350	7.960	2.670	1375.200
153	7.650	25.098	17.030	17.117	0.361	13.910	2.109	1291.100
154	7.700	25.262	21.220	21.335	0.476	18.380	2.231	847.900
155	7.750	25.426	40.820	40.887	0.789	10.710	1.930	478.700
156	7.800	25.590	42.940	42.920	0.888	-3.230	2.069	308.100
157	7.850	25.754	39.910	39.895	1.020	-2.420	2.557	205.700
158	7.900	25.918	37.280	37.257	0.890	-3.620	2.389	153.700
159	7.950	26.082	39.490	39.463	1.180	-4.390	2.990	138.500
160	8.000	26.246	45.780	45.713	1.167	-10.780	2.553	113.600
161	8.050	26.410	35.220	35.167	1.147	-8.560	3.262	109.600
162	8.100	26.574	31.980	31.928	0.706	-8.260	2.211	108.400
163	8.150	26.739	27.660	27.612	0.499	-7.730	1.807	95.200
164	8.200	26.903	27.190	27.152	0.711	-6.080	2.619	92.800
165	8.250	27.067	29.510	29.468	0.783	-6.760	2.657	96.500
166	8.300	27.231	24.670	24.624	0.538	-7.430	2.185	103.300
167	8.350	27.395	15.040	15.001	0.361	-6.180	2.406	91.900
168	8.400	27.559	11.870	11.844	0.277	-4.210	2.339	92.400
169	8.450	27.723	9.740	9.724	0.236	-2.580	2.427	88.300
170	8.500	27.887	9.900	9.892	0.251	-1.350	2.538	79.700
171	8.550	28.051	12.290	12.289	0.555	-0.100	4.516	79.000
172	8.600	28.215	18.750	18.753	0.489	0.520	2.608	62.800
173	8.650	28.379	11.760	11.754	0.680	-0.950	5.785	58.300
174	8.700	28.543	33.590	33.580	0.826	-1.580	2.460	57.800
175	8.750	28.707	32.300	32.292	0.621	-1.260	1.923	47.600
176	8.800	28.871	44.360	44.384	0.607	3.830	1.368	39.700
177	8.850	29.035	48.640	48.643	0.543	0.560	1.116	37.600
178	8.900	29.199	29.650	29.677	0.582	4.330	1.961	48.700
179	8.950	29.363	12.490	12.485	0.731	-0.780	5.855	56.700
180	9.000	29.527	15.370	15.381	0.694	1.830	4.512	52.900
181	9.050	29.691	18.370	18.384	0.550	2.220	2.992	52.000
182	9.100	29.855	18.080	18.152	0.720	11.580	3.966	62.200
183	9.150	30.019	44.000	44.078	0.770	12.480	1.747	63.600
184	9.200	30.183	53.350	53.402	0.993	8.270	1.859	69.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	61.610	61.650	0.985	6.410	1.598	60.400
186	9.300	30.511	52.360	52.430	0.800	11.200	1.526	72.900
187	9.350	30.675	40.190	40.232	0.735	6.730	1.827	66.600
188	9.400	30.840	28.780	28.830	0.645	7.960	2.237	59.800
189	9.450	31.004	27.270	27.321	0.532	8.110	1.947	63.000
190	9.500	31.168	30.030	30.078	0.403	7.700	1.340	51.000
191	9.550	31.332	32.970	32.994	0.501	3.790	1.518	39.000
192	9.600	31.496	36.910	36.935	0.679	3.930	1.838	30.600
193	9.650	31.660	40.590	40.621	0.920	4.920	2.265	40.100
194	9.700	31.824	29.360	29.374	0.596	2.190	2.029	32.900
195	9.750	31.988	49.560	49.564	0.782	0.680	1.578	24.100
196	9.800	32.152	41.900	41.917	1.011	2.710	2.412	28.800
197	9.850	32.316	59.510	59.524	0.646	2.250	1.085	33.500
198	9.900	32.480	70.810	70.819	0.903	1.380	1.275	32.200
199	9.950	32.644	158.100	158.098	1.344	-0.370	0.850	30.800
200	10.000	32.808	197.320	197.354	2.421	5.440	1.227	31.300
201	10.050	32.972	83.640	83.702	2.280	10.010	2.724	38.700
202	10.100	33.136	21.450	21.524	2.039	11.900	9.473	50.800
203	10.150	33.300	21.830	21.864	0.893	5.450	4.084	52.700
204	10.200	33.464	17.850	17.911	0.721	9.790	4.025	46.600
205	10.250	33.628	19.020	19.085	0.601	10.420	3.149	33.200
206	10.300	33.792	38.200	38.292	1.050	14.700	2.742	29.300
207	10.350	33.956	52.990	53.038	1.430	7.700	2.696	25.800
208	10.400	34.120	52.310	52.356	1.811	7.290	3.459	14.100
209	10.450	34.284	67.090	67.179	1.756	14.300	2.614	18.200
210	10.500	34.448	92.040	92.102	1.924	10.010	2.089	14.600
211	10.550	34.612	26.280	26.334	2.250	8.700	8.544	18.500
212	10.600	34.776	46.370	46.439	1.370	10.990	2.950	17.700
213	10.650	34.941	49.600	49.628	0.880	4.490	1.773	19.800
214	10.700	35.105	29.640	29.692	0.637	8.330	2.145	13.200
215	10.750	35.269	27.180	27.325	0.984	23.260	3.601	22.800
216	10.800	35.433	27.750	27.909	0.881	25.410	3.157	27.700
217	10.850	35.597	18.040	18.142	0.788	16.390	4.343	30.100
218	10.900	35.761	50.570	50.779	1.260	33.500	2.481	33.000
219	10.950	35.925	40.100	40.275	1.462	28.010	3.630	32.600
220	11.000	36.089	31.730	31.867	1.424	21.950	4.469	0.000
221	11.050	36.253	17.700	17.788	0.991	14.020	5.571	0.000
222	11.100	36.417	15.900	16.013	0.614	18.110	3.834	0.000
223	11.150	36.581	17.750	17.883	0.540	21.240	3.020	0.000
224	11.200	36.745	19.480	19.605	0.456	20.100	2.326	0.000
225	11.250	36.909	26.730	26.812	0.772	13.090	2.879	0.000
226	11.300	37.073	18.550	18.601	0.853	8.160	4.586	0.000
227	11.350	37.237	26.380	26.441	1.173	9.700	4.436	0.000
228	11.400	37.401	78.500	78.541	1.598	6.560	2.035	0.000
229	11.450	37.565	55.660	55.695	1.737	5.650	3.119	0.000
230	11.500	37.729	47.160	47.229	1.473	11.120	3.119	0.000
231	11.550	37.893	40.920	40.988	0.701	10.890	1.710	0.000
232	11.600	38.057	43.700	43.776	0.361	12.240	0.825	0.000
233	11.650	38.221	45.890	46.011	0.439	19.390	0.954	0.000
234	11.700	38.385	43.860	43.965	0.000	16.780	0.000	0.000
235	11.750	38.549	55.520	55.605	0.000	13.660	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221659
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-25
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-14-2013
CPT Time:	11:04
CPT File:	13-53075_GP25.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722206.969
Northing / Lat:	4294372.664
Elevation:	146.337
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.010	0.011	0.000	0.110	0.000	74.400
2	0.100	0.328	0.000	0.010	0.000	0.150	0.000	88.700
3	0.150	0.492	0.000	0.010	0.000	-0.160	0.000	104.200
4	0.200	0.656	0.000	0.010	0.000	-0.050	0.000	97.500
5	0.250	0.820	0.000	0.010	0.000	-0.060	0.000	104.000
6	0.300	0.984	0.000	0.010	0.000	0.020	0.000	92.500
7	0.350	1.148	0.000	0.010	0.000	-0.090	0.000	93.200
8	0.400	1.312	0.000	0.010	0.000	-0.030	0.000	107.000
9	0.450	1.476	0.000	0.010	0.000	0.150	0.000	118.100
10	0.500	1.640	0.000	0.010	0.000	0.090	0.000	113.800
11	0.550	1.804	0.000	0.010	0.000	0.020	0.000	98.500
12	0.600	1.968	0.000	0.010	0.000	-0.040	0.000	106.800
13	0.650	2.133	0.000	0.010	0.000	0.200	0.000	106.500
14	0.700	2.297	0.000	0.010	0.000	0.010	0.000	111.600
15	0.750	2.461	0.000	0.010	0.000	0.020	0.000	126.300
16	0.800	2.625	0.000	0.010	0.000	0.010	0.000	120.800
17	0.850	2.789	0.000	0.010	0.000	0.020	0.000	101.100
18	0.900	2.953	0.000	0.010	0.000	0.020	0.000	118.600
19	0.950	3.117	0.000	0.010	0.000	-0.040	0.000	110.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	0.000	0.010	0.000	-0.050	0.000	141.500
21	1.050	3.445	0.000	0.010	0.000	-0.060	0.000	137.500
22	1.100	3.609	0.000	0.010	0.000	-0.010	0.000	129.700
23	1.150	3.773	0.000	0.010	0.000	-0.040	0.000	141.400
24	1.200	3.937	0.000	0.010	0.000	0.230	0.000	116.200
25	1.250	4.101	0.000	0.010	0.000	-0.030	0.000	150.600
26	1.300	4.265	0.000	0.010	0.000	0.050	0.000	121.400
27	1.350	4.429	0.000	0.010	0.000	-0.060	0.000	140.500
28	1.400	4.593	0.000	0.010	0.000	-0.020	0.000	153.600
29	1.450	4.757	0.000	0.010	0.000	-0.040	0.000	195.700
30	1.500	4.921	0.000	0.010	0.000	0.020	0.000	207.600
31	1.550	5.085	0.000	0.010	0.000	0.050	0.000	205.000
32	1.600	5.249	0.000	0.010	0.000	0.030	0.000	37.200
33	1.650	5.413	0.000	0.010	0.000	0.000	0.000	5.800
34	1.700	5.577	0.000	0.010	0.000	0.110	0.000	11.100
35	1.750	5.741	0.000	0.010	0.000	0.100	0.000	10.200
36	1.800	5.905	0.000	0.010	0.000	0.020	0.000	3.000
37	1.850	6.069	0.000	0.010	0.000	0.020	0.000	2.600
38	1.900	6.234	0.000	0.010	0.000	-0.030	0.000	10.300
39	1.950	6.398	0.000	0.010	0.000	-0.010	0.000	9.400
40	2.000	6.562	0.000	0.010	0.000	0.090	0.000	20.800
41	2.050	6.726	0.000	0.010	0.000	0.210	0.000	5.400
42	2.100	6.890	0.000	0.010	0.000	0.110	0.000	6.700
43	2.150	7.054	0.000	0.010	0.000	0.110	0.000	22.700
44	2.200	7.218	0.000	0.010	0.000	0.060	0.000	64.300
45	2.250	7.382	0.000	0.010	0.000	0.000	0.000	354.000
46	2.300	7.546	0.000	0.010	0.000	0.080	0.000	496.100
47	2.350	7.710	0.000	0.010	0.000	0.080	0.000	701.300
48	2.400	7.874	0.000	0.010	0.000	0.220	0.000	843.600
49	2.450	8.038	0.000	0.010	0.000	0.050	0.000	1019.600
50	2.500	8.202	0.000	0.010	0.000	-0.020	0.000	1138.200
51	2.550	8.366	0.000	0.010	0.000	-0.100	0.000	1248.000
52	2.600	8.530	0.000	0.010	0.000	0.010	0.000	146.300
53	2.650	8.694	0.000	0.010	0.000	-0.060	0.000	61.200
54	2.700	8.858	0.000	0.010	0.000	-0.020	0.000	68.900
55	2.750	9.022	0.000	0.010	0.000	-0.020	0.000	54.000
56	2.800	9.186	0.000	0.010	0.000	0.070	0.000	54.200
57	2.850	9.350	0.000	0.010	0.000	0.060	0.000	392.700
58	2.900	9.514	0.000	0.010	0.000	-0.010	0.000	519.500
59	2.950	9.678	0.000	0.010	0.000	-0.050	0.000	345.100
60	3.000	9.842	0.000	0.010	0.000	-0.040	0.000	254.300
61	3.050	10.006	0.000	0.010	0.000	0.010	0.000	143.600
62	3.100	10.170	0.000	0.010	0.000	0.040	0.000	8.800
63	3.150	10.335	0.000	0.010	0.000	0.000	0.000	8.500
64	3.200	10.499	0.000	0.010	0.000	0.050	0.000	16.900
65	3.250	10.663	0.000	0.010	0.000	0.030	0.000	4.800
66	3.300	10.827	0.000	0.010	0.000	0.030	0.000	10.200
67	3.350	10.991	0.000	0.010	0.000	0.020	0.000	11.800
68	3.400	11.155	0.000	0.010	0.000	-0.020	0.000	5.500
69	3.450	11.319	0.000	0.010	0.000	-0.030	0.000	12.100
70	3.500	11.483	0.000	0.010	0.000	-0.010	0.000	25.300
71	3.550	11.647	0.000	0.010	0.000	0.040	0.000	47.100
72	3.600	11.811	0.000	0.010	0.000	-0.090	0.000	40.000
73	3.650	11.975	0.000	0.010	0.000	-0.030	0.000	50.000
74	3.700	12.139	0.000	0.010	0.000	0.080	0.000	56.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	0.000	0.010	0.000	0.090	0.000	72.800
76	3.800	12.467	0.000	0.010	0.000	0.060	0.000	64.900
77	3.850	12.631	0.000	0.010	0.000	0.100	0.000	73.100
78	3.900	12.795	0.000	0.010	0.000	-0.020	0.000	64.900
79	3.950	12.959	0.000	0.010	0.000	-0.000	0.000	69.500
80	4.000	13.123	0.000	0.010	0.000	0.040	0.000	63.600
81	4.050	13.287	0.000	0.010	0.000	0.050	0.000	70.200
82	4.100	13.451	0.000	0.010	0.000	0.120	0.000	66.300
83	4.150	13.615	0.000	0.010	0.000	0.090	0.000	51.700
84	4.200	13.779	0.000	0.010	0.000	0.020	0.000	60.000
85	4.250	13.943	0.000	0.010	0.000	0.070	0.000	55.200
86	4.300	14.107	0.000	0.010	0.000	0.020	0.000	89.800
87	4.350	14.271	0.000	0.010	0.000	0.040	0.000	58.700
88	4.400	14.436	0.000	0.010	0.000	0.130	0.000	69.700
89	4.450	14.600	0.000	0.010	0.000	0.060	0.000	72.300
90	4.500	14.764	0.000	0.010	0.000	0.030	0.000	64.100
91	4.550	14.928	0.000	0.010	0.000	0.020	0.000	63.300
92	4.600	15.092	0.000	0.010	0.000	0.090	0.000	65.000
93	4.650	15.256	0.000	0.010	0.000	0.090	0.000	57.400
94	4.700	15.420	0.000	0.010	0.000	0.060	0.000	59.500
95	4.750	15.584	0.000	0.010	0.000	0.130	0.000	51.500
96	4.800	15.748	0.000	0.010	0.000	0.060	0.000	43.700
97	4.850	15.912	0.000	0.010	0.000	0.050	0.000	61.500
98	4.900	16.076	0.000	0.010	0.000	0.080	0.000	17.100
99	4.950	16.240	0.000	0.010	0.000	0.080	0.000	6.300
100	5.000	16.404	0.000	0.010	0.000	0.030	0.000	21.300
101	5.050	16.568	0.000	0.010	0.000	0.070	0.000	55.600
102	5.100	16.732	0.000	0.010	0.000	0.170	0.000	47.200
103	5.150	16.896	0.000	0.010	0.000	0.020	0.000	8.100
104	5.200	17.060	0.000	0.010	0.000	-0.010	0.000	10.100
105	5.250	17.224	0.000	0.010	0.000	0.040	0.000	11.800
106	5.300	17.388	0.000	0.010	0.000	0.010	0.000	53.700
107	5.350	17.552	0.000	0.010	0.000	0.040	0.000	3.100
108	5.400	17.716	0.000	0.010	0.000	0.060	0.000	8.500
109	5.450	17.880	0.000	0.010	0.000	0.000	0.000	9.200
110	5.500	18.044	0.000	0.010	0.000	0.020	0.000	6.100
111	5.550	18.208	0.000	0.010	0.000	0.010	0.000	8.800
112	5.600	18.372	0.000	0.010	0.000	0.040	0.000	11.400
113	5.650	18.537	0.000	0.010	0.000	0.010	0.000	9.500
114	5.700	18.701	0.000	0.010	0.000	0.050	0.000	12.200
115	5.750	18.865	0.000	0.010	0.000	-0.000	0.000	10.600
116	5.800	19.029	0.000	0.010	0.000	-0.090	0.000	4.600
117	5.850	19.193	0.000	0.010	0.000	0.050	0.000	20.200
118	5.900	19.357	0.000	0.010	0.000	0.040	0.000	39.500
119	5.950	19.521	0.000	0.010	0.000	0.090	0.000	40.100
120	6.000	19.685	0.000	0.010	0.000	0.070	0.000	35.500
121	6.050	19.849	0.000	0.010	0.000	0.050	0.000	1.400
122	6.100	20.013	0.000	0.010	0.000	0.130	0.000	18.900
123	6.150	20.177	0.000	0.010	0.000	-0.380	0.000	43.100
124	6.200	20.341	0.000	0.010	0.000	-0.030	0.000	56.100
125	6.250	20.505	0.000	0.010	0.000	0.010	0.000	50.900
126	6.300	20.669	0.000	0.010	0.000	0.040	0.000	53.100
127	6.350	20.833	0.000	0.010	0.000	-0.030	0.000	55.900
128	6.400	20.997	0.000	0.010	0.000	0.020	0.000	66.200
129	6.450	21.161	0.000	0.010	0.000	0.020	0.000	56.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	0.000	0.010	0.000	0.050	0.000	61.900
131	6.550	21.489	0.010	0.010	0.000	0.020	0.000	68.300
132	6.600	21.653	0.000	0.010	0.000	0.020	0.000	33.300
133	6.650	21.817	0.000	0.010	0.000	0.070	0.000	10.000
134	6.700	21.981	0.000	0.010	0.000	-0.010	0.000	3.200
135	6.750	22.145	0.000	0.010	0.000	0.020	0.000	3.300
136	6.800	22.309	0.000	0.010	0.000	0.070	0.000	2.200
137	6.850	22.473	0.000	0.010	0.000	0.060	0.000	4.400
138	6.900	22.638	0.000	0.010	0.000	0.020	0.000	2.300
139	6.950	22.802	0.000	0.010	0.000	-0.000	0.000	3.900
140	7.000	22.966	0.000	0.010	0.000	0.040	0.000	3.400
141	7.050	23.130	0.000	0.010	0.000	0.070	0.000	2.900
142	7.100	23.294	0.000	0.010	0.000	0.040	0.000	3.400
143	7.150	23.458	0.000	0.010	0.000	0.060	0.000	1.800
144	7.200	23.622	0.000	0.010	0.000	-0.040	0.000	2.300
145	7.250	23.786	0.000	0.010	0.000	0.050	0.000	2.300
146	7.300	23.950	0.000	0.010	0.000	0.050	0.000	8.300
147	7.350	24.114	0.000	0.010	0.000	0.230	0.000	8.300
148	7.400	24.278	0.000	0.010	0.000	0.030	0.000	4.200
149	7.450	24.442	0.000	0.010	0.000	0.090	0.000	1.800
150	7.500	24.606	0.000	0.010	0.000	0.020	0.000	5.400
151	7.550	24.770	0.000	0.010	0.000	0.050	0.000	2.400
152	7.600	24.934	0.000	0.010	0.000	-0.010	0.000	2.900
153	7.650	25.098	0.000	0.010	0.000	0.040	0.000	4.300
154	7.700	25.262	0.000	0.010	0.000	0.070	0.000	3.800
155	7.750	25.426	0.000	0.010	0.000	0.020	0.000	3.300
156	7.800	25.590	0.000	0.010	0.000	-0.010	0.000	2.700
157	7.850	25.754	0.000	0.010	0.000	-0.090	0.000	2.200
158	7.900	25.918	0.000	0.010	0.000	0.030	0.000	4.500
159	7.950	26.082	0.000	0.010	0.000	-0.070	0.000	3.400
160	8.000	26.246	0.000	0.010	0.000	0.050	0.000	5.700
161	8.050	26.410	0.000	0.010	0.000	0.050	0.000	9.100
162	8.100	26.574	0.000	0.010	0.000	0.050	0.000	3.400
163	8.150	26.739	0.000	0.010	0.000	0.000	0.000	5.800
164	8.200	26.903	0.000	0.010	0.000	0.010	0.000	5.800
165	8.250	27.067	0.000	0.010	0.000	0.060	0.000	7.000
166	8.300	27.231	0.000	0.010	0.000	-0.020	0.000	4.100
167	8.350	27.395	0.000	0.010	0.000	0.020	0.000	4.100
168	8.400	27.559	0.000	0.010	0.000	0.050	0.000	4.100
169	8.450	27.723	0.000	0.010	0.000	-0.020	0.000	1.700
170	8.500	27.887	0.000	0.010	0.000	-0.020	0.000	1.200
171	8.550	28.051	0.000	0.010	0.000	-0.030	0.000	3.500
172	8.600	28.215	0.000	0.010	0.000	0.010	0.000	0.000
173	8.650	28.379	0.000	0.010	0.000	-0.010	0.000	0.000
174	8.700	28.543	0.000	0.010	0.000	0.050	0.000	0.000
175	8.750	28.707	0.000	0.010	0.000	0.040	0.000	0.000
176	8.800	28.871	0.000	0.010	0.000	-0.020	0.000	0.000
177	8.850	29.035	0.000	0.010	0.000	0.040	0.000	0.000
178	8.900	29.199	0.000	0.010	0.000	-0.020	0.000	0.000
179	8.950	29.363	0.000	0.010	0.000	0.080	0.000	0.000
180	9.000	29.527	0.000	0.010	0.000	0.020	0.000	0.000
181	9.050	29.691	0.000	0.010	0.000	-0.030	0.000	0.000
182	9.100	29.855	0.000	0.010	0.000	0.040	0.000	0.000
183	9.150	30.019	0.000	0.010	0.000	0.070	0.000	0.000
184	9.200	30.183	0.000	0.010	0.000	0.010	0.000	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	0.000	0.010	0.000	0.030	0.000	0.000
186	9.300	30.511	0.000	0.010	0.000	0.180	0.000	0.000
187	9.350	30.675	0.000	0.010	0.000	0.380	0.000	0.000
188	9.400	30.840	0.000	0.010	0.000	0.580	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221674
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	PVC-25R
Cone ID:	406:T1500F15U500
Operator:	DC/YB
CPT Date:	Jan-29-2014
CPT Time:	11:01
CPT File:	13-53075_PVC25R.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722184.507
Northing / Lat:	4294408.619
Elevation:	143.980
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.000	0.010	0.008	0.320	76.640	33.000
2	0.100	0.328	0.040	0.042	0.007	0.250	16.843	48.700
3	0.150	0.492	0.080	0.083	0.007	0.540	8.396	64.400
4	0.200	0.656	0.070	0.072	0.008	0.340	11.092	65.700
5	0.250	0.820	0.040	0.043	0.007	0.430	16.399	69.600
6	0.300	0.984	0.100	0.102	0.010	0.260	9.840	69.300
7	0.350	1.148	0.070	0.073	0.006	0.410	8.269	77.100
8	0.400	1.312	0.090	0.091	0.009	0.100	9.931	80.700
9	0.450	1.476	0.080	0.082	0.007	0.290	8.556	80.500
10	0.500	1.640	0.070	0.071	0.006	0.240	8.392	84.800
11	0.550	1.804	0.070	0.072	0.007	0.280	9.756	92.300
12	0.600	1.968	0.020	0.022	0.009	0.280	41.383	92.700
13	0.650	2.133	0.090	0.092	0.009	0.250	9.830	90.800
14	0.700	2.297	0.020	0.020	0.009	0.010	44.860	99.800
15	0.750	2.461	0.030	0.027	0.004	-0.450	14.711	103.700
16	0.800	2.625	0.060	0.062	0.005	0.330	8.057	111.800
17	0.850	2.789	0.080	0.083	0.004	0.500	4.812	98.000
18	0.900	2.953	0.020	0.023	0.005	0.460	21.861	101.000
19	0.950	3.117	0.080	0.082	0.002	0.320	2.439	113.700
20	1.000	3.281	0.050	0.053	0.003	0.460	5.674	110.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
21	1.050	3.445	0.010	0.013	0.002	0.500	15.242	111.100
22	1.100	3.609	0.080	0.083	0.002	0.490	2.408	123.100
23	1.150	3.773	0.010	0.014	0.003	0.620	21.629	107.900
24	1.200	3.937	0.050	0.054	0.004	0.580	7.460	107.300
25	1.250	4.101	0.060	0.063	0.002	0.450	3.184	116.900
26	1.300	4.265	0.020	0.025	0.003	0.770	12.093	113.200
27	1.350	4.429	0.090	0.093	0.005	0.550	5.351	116.900
28	1.400	4.593	0.030	0.034	0.005	0.610	14.789	130.700
29	1.450	4.757	0.040	0.044	0.002	0.610	4.565	130.200
30	1.500	4.921	0.070	0.072	0.001	0.300	1.391	121.200
31	1.550	5.085	0.070	0.074	0.005	0.620	6.769	117.800
32	1.600	5.249	0.020	0.024	0.007	0.680	28.872	114.900
33	1.650	5.413	0.010	0.013	0.002	0.560	14.819	121.100
34	1.700	5.577	0.070	0.073	0.008	0.420	11.016	144.500
35	1.750	5.741	0.080	0.083	0.008	0.480	9.639	176.600
36	1.800	5.905	0.000	0.010	0.004	0.320	38.320	192.700
37	1.850	6.069	0.020	0.021	0.003	0.190	14.160	195.700
38	1.900	6.234	0.080	0.083	0.003	0.460	3.620	185.400
39	1.950	6.398	0.070	0.074	0.003	0.590	4.071	153.200
40	2.000	6.562	0.090	0.094	0.003	0.680	3.183	124.500
41	2.050	6.726	0.020	0.025	0.002	0.760	8.083	116.700
42	2.100	6.890	0.090	0.093	0.006	0.530	6.430	92.800
43	2.150	7.054	0.090	0.094	0.004	0.620	4.261	79.200
44	2.200	7.218	0.020	0.023	0.003	0.500	12.975	81.900
45	2.250	7.382	0.070	0.073	0.003	0.500	4.103	83.300
46	2.300	7.546	0.100	0.102	0.003	0.380	2.930	88.100
47	2.350	7.710	0.060	0.063	0.002	0.510	3.165	92.600
48	2.400	7.874	0.070	0.074	0.005	0.570	6.797	107.800
49	2.450	8.038	0.060	0.064	0.004	0.660	6.238	187.600
50	2.500	8.202	0.030	0.033	0.004	0.530	12.009	228.400
51	2.550	8.366	0.040	0.043	0.004	0.450	9.344	342.900
52	2.600	8.530	0.020	0.023	0.006	0.540	25.673	494.400
53	2.650	8.694	0.080	0.083	0.004	0.480	4.819	699.700
54	2.700	8.858	0.000	0.010	0.004	0.460	38.320	842.500
55	2.750	9.022	0.090	0.093	0.005	0.510	5.366	967.800
56	2.800	9.186	0.010	0.014	0.006	0.650	42.681	1126.700
57	2.850	9.350	0.040	0.043	0.006	0.440	14.036	1197.100
58	2.900	9.514	0.070	0.073	0.005	0.560	6.803	1242.700
59	2.950	9.678	0.030	0.034	0.008	0.590	23.751	1200.700
60	3.000	9.842	0.020	0.024	0.007	0.570	29.713	1199.100
61	3.050	10.006	0.080	0.083	0.006	0.550	7.191	1070.900
62	3.100	10.170	0.080	0.083	0.004	0.530	4.801	918.100
63	3.150	10.335	0.010	0.012	0.005	0.380	40.413	700.100
64	3.200	10.499	0.100	0.103	0.007	0.520	6.780	527.800
65	3.250	10.663	0.020	0.022	0.008	0.390	35.659	390.900
66	3.300	10.827	0.280	0.282	0.002	0.350	0.709	274.100
67	3.350	10.991	0.010	0.011	0.003	0.210	26.523	226.500
68	3.400	11.155	0.010	0.013	0.003	0.530	22.542	187.600
69	3.450	11.319	0.010	0.013	0.008	0.460	62.152	178.400
70	3.500	11.483	0.050	0.053	0.005	0.460	9.457	143.800
71	3.550	11.647	0.040	0.042	0.003	0.340	7.122	128.300
72	3.600	11.811	0.090	0.092	0.007	0.340	7.599	92.000
73	3.650	11.975	0.080	0.084	0.009	0.570	10.771	76.800
74	3.700	12.139	0.070	0.072	0.002	0.390	2.761	54.900
75	3.750	12.303	0.070	0.071	0.006	0.210	8.414	54.300
76	3.800	12.467	0.050	0.054	0.005	0.580	9.325	48.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
77	3.850	12.631	0.010	0.014	0.007	0.620	50.467	46.500
78	3.900	12.795	0.100	0.104	0.006	0.570	5.794	56.800
79	3.950	12.959	0.090	0.093	0.006	0.500	6.443	51.800
80	4.000	13.123	0.030	0.033	0.006	0.490	18.149	59.600
81	4.050	13.287	0.010	0.014	0.006	0.580	44.050	62.800
82	4.100	13.451	0.020	0.023	0.001	0.540	4.279	58.500
83	4.150	13.615	0.030	0.032	0.008	0.320	25.002	65.600
84	4.200	13.779	0.070	0.073	0.005	0.490	6.844	73.100
85	4.250	13.943	0.070	0.072	0.004	0.360	5.537	70.300
86	4.300	14.107	0.040	0.044	0.004	0.650	9.079	73.600
87	4.350	14.271	0.090	0.093	0.003	0.530	3.215	64.700
88	4.400	14.436	0.030	0.034	0.003	0.680	8.760	54.600
89	4.450	14.600	0.030	0.034	0.003	0.630	8.841	57.800
90	4.500	14.764	0.010	0.014	0.005	0.650	35.568	52.600
91	4.550	14.928	0.050	0.053	0.003	0.530	5.628	58.600
92	4.600	15.092	0.030	0.034	0.003	0.580	8.923	60.700
93	4.650	15.256	0.060	0.064	0.005	0.720	7.753	63.400
94	4.700	15.420	0.030	0.033	0.002	0.560	5.971	67.500
95	4.750	15.584	0.030	0.033	0.006	0.520	18.047	66.700
96	4.800	15.748	0.010	0.014	0.005	0.690	34.947	70.000
97	4.850	15.912	0.010	0.013	0.002	0.410	15.924	68.400
98	4.900	16.076	0.090	0.094	0.003	0.570	3.207	67.100
99	4.950	16.240	0.070	0.074	0.004	0.670	5.392	71.800
100	5.000	16.404	0.060	0.064	0.008	0.670	12.464	58.200
101	5.050	16.568	0.070	0.074	0.004	0.570	5.438	55.600
102	5.100	16.732	0.070	0.074	0.005	0.590	6.786	50.900
103	5.150	16.896	0.010	0.013	0.005	0.560	37.048	50.500
104	5.200	17.060	0.000	0.010	0.004	0.670	38.320	44.400
105	5.250	17.224	0.100	0.105	0.006	0.750	5.732	47.300
106	5.300	17.388	0.080	0.084	0.005	0.630	5.957	39.300
107	5.350	17.552	0.050	0.055	0.005	0.850	9.041	50.600
108	5.400	17.716	0.000	0.010	0.008	0.690	76.640	58.900
109	5.450	17.880	0.090	0.094	0.009	0.620	9.588	46.100
110	5.500	18.044	0.010	0.013	0.006	0.510	45.510	48.500
111	5.550	18.208	0.010	0.013	0.005	0.520	37.747	39.600
112	5.600	18.372	0.080	0.083	0.003	0.560	3.593	38.400
113	5.650	18.537	0.020	0.023	0.006	0.460	26.233	38.500
114	5.700	18.701	0.030	0.034	0.006	0.640	17.649	41.900
115	5.750	18.865	0.060	0.063	0.003	0.530	4.739	26.600
116	5.800	19.029	0.060	0.063	0.002	0.540	3.156	27.900
117	5.850	19.193	0.030	0.033	0.003	0.530	9.007	30.500
118	5.900	19.357	0.040	0.043	0.006	0.500	13.914	32.000
119	5.950	19.521	0.060	0.064	0.004	0.620	6.263	25.100
120	6.000	19.685	0.050	0.054	0.003	0.570	5.601	33.700
121	6.050	19.849	0.090	0.093	0.003	0.510	3.219	35.100
122	6.100	20.013	0.000	0.010	0.004	0.440	38.320	35.200
123	6.150	20.177	0.080	0.084	0.003	0.590	3.585	36.300
124	6.200	20.341	0.060	0.063	0.004	0.460	6.362	38.000
125	6.250	20.505	0.000	0.010	0.005	0.600	47.900	41.300
126	6.300	20.669	0.060	0.063	0.005	0.520	7.906	39.700
127	6.350	20.833	0.090	0.094	0.004	0.650	4.253	40.600
128	6.400	20.997	0.040	0.043	0.003	0.530	6.927	47.800
129	6.450	21.161	0.080	0.084	0.003	0.590	3.585	42.700
130	6.500	21.325	0.030	0.034	0.006	0.660	17.585	51.200
131	6.550	21.489	0.060	0.063	0.002	0.490	3.172	49.100
132	6.600	21.653	0.040	0.043	0.004	0.550	9.209	54.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
133	6.650	21.817	0.030	0.035	0.002	0.860	5.655	53.000
134	6.700	21.981	0.040	0.042	0.006	0.320	14.287	59.200
135	6.750	22.145	0.060	0.065	0.006	0.870	9.170	66.600
136	6.800	22.309	0.050	0.054	0.004	0.650	7.399	67.300
137	6.850	22.473	0.090	0.093	0.002	0.550	2.141	64.500
138	6.900	22.638	0.000	0.010	0.005	0.560	47.900	69.600
139	6.950	22.802	0.070	0.075	0.006	0.770	8.021	63.400
140	7.000	22.966	0.060	0.063	0.003	0.550	4.729	66.200
141	7.050	23.130	0.020	0.024	0.003	0.600	12.634	61.100
142	7.100	23.294	0.040	0.044	0.003	0.650	6.809	71.900
143	7.150	23.458	0.100	0.104	0.005	0.700	4.791	61.300
144	7.200	23.622	0.070	0.074	0.003	0.650	4.051	63.700
145	7.250	23.786	0.020	0.023	0.006	0.500	25.950	64.700
146	7.300	23.950	0.010	0.014	0.006	0.570	44.253	63.000
147	7.350	24.114	0.060	0.063	0.006	0.550	9.459	61.700
148	7.400	24.278	0.000	0.010	0.005	0.540	47.900	57.800
149	7.450	24.442	0.000	0.010	0.003	0.800	28.740	51.700
150	7.500	24.606	0.080	0.083	0.003	0.540	3.598	45.000
151	7.550	24.770	0.030	0.034	0.003	0.720	8.697	50.500
152	7.600	24.934	0.030	0.033	0.005	0.540	14.983	37.400
153	7.650	25.098	0.040	0.044	0.002	0.620	4.559	31.900
154	7.700	25.262	0.060	0.064	0.002	0.640	3.125	33.000
155	7.750	25.426	0.030	0.035	0.005	0.750	14.417	34.400
156	7.800	25.590	0.070	0.075	0.007	0.850	9.295	29.400
157	7.850	25.754	0.070	0.075	0.002	0.780	2.671	31.600
158	7.900	25.918	0.010	0.013	0.002	0.530	15.028	38.300
159	7.950	26.082	0.040	0.044	0.004	0.670	9.053	36.600
160	8.000	26.246	0.070	0.074	0.005	0.690	6.729	40.300
161	8.050	26.410	0.040	0.044	0.002	0.620	4.559	42.400
162	8.100	26.574	0.020	0.024	0.004	0.680	16.498	48.600
163	8.150	26.739	0.040	0.044	0.004	0.610	9.131	48.400
164	8.200	26.903	0.100	0.105	0.003	0.730	2.869	61.800
165	8.250	27.067	0.080	0.084	0.003	0.580	3.588	63.100
166	8.300	27.231	0.020	0.024	0.001	0.590	4.222	78.200
167	8.350	27.395	0.100	0.104	0.004	0.690	3.835	71.700
168	8.400	27.559	0.060	0.063	0.004	0.520	6.324	0.000
169	8.450	27.723	0.040	0.043	0.004	0.560	9.196	0.000
170	8.500	27.887	0.050	0.054	0.004	0.580	7.460	0.000
171	8.550	28.051	0.070	0.074	0.003	0.680	4.041	0.000
172	8.600	28.215	0.070	0.075	0.003	0.740	4.020	0.000
173	8.650	28.379	0.060	0.065	0.003	0.800	4.616	0.000
174	8.700	28.543	0.060	0.065	0.003	0.750	4.638	0.000
175	8.750	28.707	0.060	0.064	0.003	0.700	4.661	0.000
176	8.800	28.871	0.090	0.094	0.004	0.590	4.270	0.000
177	8.850	29.035	0.090	0.094	0.003	0.610	3.198	0.000
178	8.900	29.199	0.080	0.084	0.002	0.660	2.378	0.000
179	8.950	29.363	0.000	0.010	0.001	0.590	9.580	0.000
180	9.000	29.527	0.060	0.064	0.005	0.650	7.805	0.000
181	9.050	29.691	0.050	0.054	0.001	0.690	1.841	0.000
182	9.100	29.855	0.060	0.064	0.000	0.630	0.000	0.000
183	9.150	30.019	0.080	0.084	0.000	0.650	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221665
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-36
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-14-2013
CPT Time:	13:17
CPT File:	13-53075_GP36.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722116.792
Northing / Lat:	4294359.289
Elevation:	141.636
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	0.000	0.010	0.000	0.060	0.000	42.300
2	0.100	0.328	0.000	0.010	0.000	0.100	0.000	51.000
3	0.150	0.492	0.000	0.010	0.000	-0.010	0.000	56.200
4	0.200	0.656	0.000	0.010	0.000	0.040	0.000	71.500
5	0.250	0.820	0.000	0.010	0.000	-0.090	0.000	90.700
6	0.300	0.984	0.000	0.010	0.000	-0.170	0.000	97.200
7	0.350	1.148	0.000	0.010	0.000	0.090	0.000	109.800
8	0.400	1.312	0.000	0.010	0.001	0.090	9.580	101.400
9	0.450	1.476	0.000	0.010	0.001	0.010	9.580	120.400
10	0.500	1.640	0.000	0.010	0.000	0.060	0.000	131.400
11	0.550	1.804	0.000	0.010	0.000	0.110	0.000	116.800
12	0.600	1.968	0.000	0.010	0.001	0.020	9.580	109.000
13	0.650	2.133	0.000	0.010	0.000	0.030	0.000	100.800
14	0.700	2.297	0.000	0.010	0.001	-0.010	9.580	107.300
15	0.750	2.461	0.000	0.010	0.000	0.130	0.000	102.700
16	0.800	2.625	0.000	0.010	0.000	0.040	0.000	96.500
17	0.850	2.789	0.000	0.010	0.001	0.070	9.580	99.100
18	0.900	2.953	0.000	0.010	0.001	-0.010	9.580	99.300
19	0.950	3.117	0.000	0.010	0.000	0.100	0.000	103.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	0.000	0.010	0.001	0.080	9.580	98.600
21	1.050	3.445	0.000	0.010	0.000	-0.010	0.000	115.500
22	1.100	3.609	0.000	0.010	0.000	0.180	0.000	116.000
23	1.150	3.773	0.000	0.010	0.000	0.030	0.000	118.300
24	1.200	3.937	0.000	0.010	0.000	0.090	0.000	121.000
25	1.250	4.101	0.000	0.010	0.001	-0.020	9.580	111.900
26	1.300	4.265	0.000	0.010	0.000	0.080	0.000	109.100
27	1.350	4.429	0.000	0.010	0.001	0.180	9.580	111.400
28	1.400	4.593	0.000	0.010	0.001	0.010	9.580	100.600
29	1.450	4.757	0.000	0.010	0.000	0.140	0.000	121.900
30	1.500	4.921	0.000	0.010	0.001	0.180	9.580	102.000
31	1.550	5.085	0.000	0.010	0.000	0.010	0.000	118.000
32	1.600	5.249	0.000	0.010	0.000	0.120	0.000	96.300
33	1.650	5.413	0.000	0.010	0.000	-0.070	0.000	100.400
34	1.700	5.577	0.000	0.010	0.000	-0.030	0.000	97.700
35	1.750	5.741	0.000	0.010	0.000	0.090	0.000	91.700
36	1.800	5.905	0.000	0.010	0.000	0.070	0.000	99.000
37	1.850	6.069	0.000	0.010	0.001	0.090	9.580	102.600
38	1.900	6.234	0.000	0.010	0.000	0.050	0.000	111.800
39	1.950	6.398	0.000	0.010	0.000	0.130	0.000	105.800
40	2.000	6.562	0.000	0.010	0.000	0.120	0.000	115.900
41	2.050	6.726	0.000	0.010	0.001	0.110	9.580	120.500
42	2.100	6.890	0.000	0.010	0.001	0.060	9.580	130.000
43	2.150	7.054	0.000	0.010	0.000	0.050	0.000	139.800
44	2.200	7.218	0.000	0.010	0.000	0.060	0.000	154.300
45	2.250	7.382	0.000	0.010	0.000	0.070	0.000	191.200
46	2.300	7.546	0.000	0.010	0.000	0.080	0.000	191.900
47	2.350	7.710	0.000	0.010	0.000	0.050	0.000	235.400
48	2.400	7.874	0.000	0.010	0.001	0.010	9.580	298.500
49	2.450	8.038	0.000	0.010	0.000	0.050	0.000	304.600
50	2.500	8.202	0.000	0.010	0.000	0.070	0.000	323.200
51	2.550	8.366	0.000	0.010	0.001	0.070	9.580	323.100
52	2.600	8.530	0.000	0.010	0.000	0.060	0.000	324.500
53	2.650	8.694	0.000	0.010	0.001	0.000	9.580	275.600
54	2.700	8.858	0.000	0.010	0.001	-0.010	9.580	236.400
55	2.750	9.022	0.000	0.010	0.001	0.110	9.580	206.400
56	2.800	9.186	0.000	0.010	0.000	0.060	0.000	185.700
57	2.850	9.350	0.000	0.010	0.001	0.050	9.580	156.900
58	2.900	9.514	0.000	0.010	0.000	0.050	0.000	145.600
59	2.950	9.678	0.000	0.010	0.000	0.110	0.000	113.600
60	3.000	9.842	0.000	0.010	0.001	0.000	9.580	108.300
61	3.050	10.006	0.000	0.010	0.000	0.080	0.000	93.700
62	3.100	10.170	0.000	0.010	0.000	0.090	0.000	91.400
63	3.150	10.335	0.000	0.010	0.001	0.010	9.580	78.000
64	3.200	10.499	0.000	0.010	0.000	0.040	0.000	65.900
65	3.250	10.663	0.000	0.010	0.000	0.060	0.000	72.300
66	3.300	10.827	0.000	0.010	0.000	-0.070	0.000	69.300
67	3.350	10.991	0.000	0.010	0.000	0.040	0.000	66.600
68	3.400	11.155	0.000	0.010	0.001	0.040	9.580	59.700
69	3.450	11.319	0.000	0.010	0.000	0.040	0.000	48.600
70	3.500	11.483	0.000	0.010	0.000	0.010	0.000	64.700
71	3.550	11.647	0.000	0.010	0.000	0.080	0.000	57.500
72	3.600	11.811	0.000	0.010	0.001	0.030	9.580	48.800
73	3.650	11.975	0.000	0.010	0.000	-0.000	0.000	56.900
74	3.700	12.139	0.000	0.010	0.000	0.060	0.000	58.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	0.000	0.010	0.001	0.060	9.580	58.100
76	3.800	12.467	0.000	0.010	0.000	-0.030	0.000	65.900
77	3.850	12.631	0.000	0.010	0.001	0.050	9.580	71.400
78	3.900	12.795	0.000	0.010	0.001	0.010	9.580	69.900
79	3.950	12.959	0.000	0.010	0.000	0.030	0.000	79.600
80	4.000	13.123	0.000	0.010	0.001	0.080	9.580	69.900
81	4.050	13.287	0.000	0.010	0.000	0.080	0.000	74.700
82	4.100	13.451	0.000	0.010	0.000	-0.040	0.000	80.200
83	4.150	13.615	0.000	0.010	0.001	0.430	9.580	74.100
84	4.200	13.779	0.000	0.010	0.000	0.640	0.000	64.600
85	4.250	13.943	0.000	0.010	0.001	0.680	9.580	50.800
86	4.300	14.107	0.000	0.010	0.001	0.960	9.580	47.400
87	4.350	14.271	0.000	0.010	0.000	1.190	0.000	40.800
88	4.400	14.436	0.000	0.010	0.000	1.390	0.000	38.600
89	4.450	14.600	0.000	0.010	0.001	1.660	9.580	35.300
90	4.500	14.764	0.000	0.012	0.001	1.860	8.612	22.900
91	4.550	14.928	0.000	0.013	0.000	2.130	0.000	22.800
92	4.600	15.092	0.000	0.014	0.000	2.260	0.000	21.800
93	4.650	15.256	0.000	0.016	0.000	2.530	0.000	19.300
94	4.700	15.420	0.000	0.017	0.001	2.680	5.977	19.200
95	4.750	15.584	0.000	0.018	0.000	2.920	0.000	0.000
96	4.800	15.748	0.000	0.019	0.001	3.060	5.235	0.000
97	4.850	15.912	0.000	0.020	0.000	3.280	0.000	0.000
98	4.900	16.076	0.000	0.022	0.000	3.510	0.000	0.000
99	4.950	16.240	0.000	0.024	0.001	3.780	4.238	0.000
100	5.000	16.404	0.000	0.024	0.001	3.910	4.097	0.000
101	5.050	16.568	0.000	0.026	0.001	4.120	3.888	0.000
102	5.100	16.732	0.000	0.027	0.001	4.310	3.717	0.000
103	5.150	16.896	0.000	0.029	0.001	4.610	3.475	0.000
104	5.200	17.060	0.000	0.030	0.000	4.760	0.000	0.000
105	5.250	17.224	0.000	0.030	0.000	4.870	0.000	0.000
106	5.300	17.388	0.000	0.032	0.000	5.200	0.000	0.000
107	5.350	17.552	0.000	0.035	0.000	5.560	0.000	0.000
108	5.400	17.716	0.000	0.034	0.001	5.370	2.983	0.000
109	5.450	17.880	0.000	0.036	0.000	5.800	0.000	0.000
110	5.500	18.044	0.000	0.037	0.000	6.000	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221667
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-108
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-15-2013
CPT Time:	08:06
CPT File:	13-53075_GP108.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722174.067
Northing / Lat:	4294338.429
Elevation:	143.313
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	2.350	2.362	0.033	1.880	1.397	29.900
2	0.100	0.328	35.290	35.305	0.000	2.440	0.000	32.300
3	0.150	0.492	47.030	47.043	0.049	2.030	0.104	31.900
4	0.200	0.656	54.570	54.581	0.103	1.800	0.189	27.800
5	0.250	0.820	54.080	54.091	0.135	1.770	0.250	41.500
6	0.300	0.984	56.950	56.961	0.160	1.750	0.281	45.300
7	0.350	1.148	56.010	56.022	0.356	1.920	0.635	48.700
8	0.400	1.312	51.660	51.669	0.309	1.470	0.598	63.700
9	0.450	1.476	50.940	50.948	0.676	1.210	1.327	77.900
10	0.500	1.640	29.920	29.931	0.676	1.690	2.259	71.200
11	0.550	1.804	17.660	17.685	0.580	4.020	3.280	85.600
12	0.600	1.968	18.860	18.873	0.394	2.060	2.088	106.800
13	0.650	2.133	22.720	22.713	0.395	-1.170	1.739	90.300
14	0.700	2.297	31.890	31.886	0.440	-0.590	1.380	88.600
15	0.750	2.461	49.290	49.289	0.712	-0.110	1.445	93.600
16	0.800	2.625	70.990	70.991	0.835	0.100	1.176	80.300
17	0.850	2.789	118.390	118.392	1.012	0.300	0.855	84.600
18	0.900	2.953	129.370	129.372	1.136	0.260	0.878	86.500
19	0.950	3.117	130.460	130.460	1.299	-0.020	0.996	86.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	117.270	117.271	1.428	0.090	1.218	82.600
21	1.050	3.445	95.140	95.140	1.417	-0.060	1.489	88.100
22	1.100	3.609	67.490	67.489	1.206	-0.100	1.787	70.200
23	1.150	3.773	47.630	47.629	0.983	-0.190	2.064	61.800
24	1.200	3.937	37.110	37.108	0.798	-0.310	2.150	63.600
25	1.250	4.101	36.170	36.168	0.604	-0.260	1.670	43.000
26	1.300	4.265	57.680	57.687	0.377	1.160	0.654	52.900
27	1.350	4.429	85.160	85.165	0.913	0.850	1.072	36.100
28	1.400	4.593	76.190	76.199	1.471	1.390	1.930	31.700
29	1.450	4.757	67.670	67.678	1.669	1.260	2.466	37.400
30	1.500	4.921	45.600	45.615	1.517	2.440	3.326	33.900
31	1.550	5.085	40.750	40.770	1.009	3.240	2.475	33.500
32	1.600	5.249	28.210	28.222	0.828	1.880	2.934	28.600
33	1.650	5.413	12.700	12.711	0.578	1.700	4.547	44.200
34	1.700	5.577	10.680	10.699	0.509	2.990	4.758	41.800
35	1.750	5.741	16.270	16.288	0.264	2.810	1.621	50.700
36	1.800	5.905	4.480	4.498	0.220	2.890	4.891	64.200
37	1.850	6.069	25.120	25.146	0.281	4.150	1.117	65.600
38	1.900	6.234	27.620	27.641	0.363	3.290	1.313	56.300
39	1.950	6.398	19.490	19.444	0.446	-7.310	2.294	49.800
40	2.000	6.562	20.540	20.487	0.349	-8.550	1.704	53.400
41	2.050	6.726	36.960	36.953	0.395	-1.070	1.069	43.500
42	2.100	6.890	42.230	42.233	0.786	0.520	1.861	41.700
43	2.150	7.054	38.820	38.830	0.928	1.590	2.390	10.500
44	2.200	7.218	35.230	35.241	0.859	1.690	2.438	12.900
45	2.250	7.382	28.030	28.048	0.520	2.880	1.854	22.800
46	2.300	7.546	13.620	13.651	0.429	4.890	3.143	18.600
47	2.350	7.710	7.350	7.390	0.206	6.400	2.788	14.500
48	2.400	7.874	7.340	7.382	0.177	6.690	2.398	18.600
49	2.450	8.038	9.720	9.761	0.274	6.580	2.807	86.200
50	2.500	8.202	9.410	9.421	0.365	1.840	3.874	99.200
51	2.550	8.366	9.570	9.582	0.378	1.930	3.945	76.100
52	2.600	8.530	21.210	21.219	0.537	1.480	2.531	54.600
53	2.650	8.694	43.130	43.135	0.800	0.850	1.855	45.400
54	2.700	8.858	36.620	36.626	0.778	1.010	2.124	39.000
55	2.750	9.022	38.810	38.817	0.615	1.130	1.584	29.900
56	2.800	9.186	43.660	43.667	0.471	1.180	1.079	27.300
57	2.850	9.350	51.290	51.301	0.322	1.710	0.628	29.300
58	2.900	9.514	66.810	66.814	0.256	0.700	0.383	25.100
59	2.950	9.678	89.280	89.289	0.222	1.410	0.249	28.000
60	3.000	9.842	78.220	78.227	0.184	1.150	0.235	19.400
61	3.050	10.006	94.530	94.533	0.344	0.470	0.364	18.100
62	3.100	10.170	78.560	78.564	0.275	0.670	0.350	10.500
63	3.150	10.335	71.160	71.178	0.403	2.840	0.566	9.500
64	3.200	10.499	109.410	109.417	1.047	1.130	0.957	17.500
65	3.250	10.663	84.820	84.840	0.985	3.150	1.161	13.000
66	3.300	10.827	93.230	93.237	0.832	1.150	0.892	20.000
67	3.350	10.991	94.590	94.597	0.812	1.180	0.858	14.300
68	3.400	11.155	83.740	83.758	1.003	2.840	1.198	15.100
69	3.450	11.319	33.300	33.304	1.167	0.680	3.504	14.100
70	3.500	11.483	14.320	14.333	0.622	2.010	4.340	17.600
71	3.550	11.647	10.230	10.244	0.462	2.240	4.510	24.300
72	3.600	11.811	7.150	7.149	0.265	-0.140	3.707	20.500
73	3.650	11.975	6.920	6.922	0.256	0.340	3.698	19.200
74	3.700	12.139	9.240	9.242	0.289	0.260	3.127	10.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	13.950	13.952	0.210	0.370	1.505	21.700
76	3.800	12.467	8.050	8.041	0.152	-1.380	1.890	11.400
77	3.850	12.631	6.060	6.070	0.131	1.540	2.158	21.900
78	3.900	12.795	12.870	12.882	0.194	1.940	1.506	22.100
79	3.950	12.959	17.940	17.956	0.373	2.560	2.077	25.100
80	4.000	13.123	13.430	13.433	1.451	0.490	10.802	27.000
81	4.050	13.287	120.060	120.071	0.609	1.790	0.507	33.400
82	4.100	13.451	97.570	97.576	0.717	0.890	0.735	20.800
83	4.150	13.615	41.420	41.427	1.140	1.160	2.752	34.600
84	4.200	13.779	110.910	110.910	0.861	-0.060	0.776	34.800
85	4.250	13.943	106.540	106.546	0.524	0.900	0.492	40.600
86	4.300	14.107	90.250	90.262	1.027	1.890	1.138	42.600
87	4.350	14.271	51.010	51.022	1.157	1.920	2.268	37.500
88	4.400	14.436	35.930	35.907	1.286	-3.740	3.582	38.900
89	4.450	14.600	42.150	42.135	2.317	-2.460	5.499	40.700
90	4.500	14.764	68.880	68.858	4.204	-3.590	6.105	33.500
91	4.550	14.928	35.220	35.160	2.341	-9.590	6.658	40.600
92	4.600	15.092	66.380	66.304	1.951	-12.150	2.943	47.700
93	4.650	15.256	313.790	313.682	1.899	-17.260	0.605	47.900
94	4.700	15.420	159.800	159.713	1.556	-13.880	0.974	50.000
95	4.750	15.584	68.800	68.805	1.511	0.840	2.196	53.700
96	4.800	15.748	66.320	66.273	1.324	-7.540	1.998	53.600
97	4.850	15.912	91.890	91.839	2.429	-8.240	2.645	62.200
98	4.900	16.076	186.660	186.612	2.064	-7.750	1.106	69.500
99	4.950	16.240	139.690	139.654	3.271	-5.840	2.342	74.900
100	5.000	16.404	75.250	75.221	3.043	-4.570	4.045	79.600
101	5.050	16.568	48.150	48.115	1.731	-5.640	3.598	90.800
102	5.100	16.732	55.010	54.960	1.074	-7.990	1.954	82.200
103	5.150	16.896	36.940	36.868	1.067	-11.610	2.894	79.400
104	5.200	17.060	28.590	28.515	1.331	-11.990	4.668	66.700
105	5.250	17.224	38.840	38.761	1.262	-12.600	3.256	69.100
106	5.300	17.388	58.510	58.423	2.171	-13.970	3.716	63.000
107	5.350	17.552	53.100	52.988	2.062	-17.880	3.891	79.700
108	5.400	17.716	51.590	51.461	1.271	-20.620	2.470	79.300
109	5.450	17.880	38.270	38.138	1.011	-21.120	2.651	81.500
110	5.500	18.044	37.540	37.410	0.874	-20.790	2.336	81.300
111	5.550	18.208	38.850	38.721	0.861	-20.640	2.224	99.700
112	5.600	18.372	35.110	34.981	0.847	-20.620	2.421	90.600
113	5.650	18.537	27.720	27.591	0.846	-20.690	3.066	90.600
114	5.700	18.701	22.580	22.450	1.091	-20.800	4.860	77.100
115	5.750	18.865	24.490	24.361	1.215	-20.710	4.988	89.600
116	5.800	19.029	36.320	36.191	1.334	-20.670	3.686	80.900
117	5.850	19.193	53.110	52.987	1.485	-19.690	2.803	76.700
118	5.900	19.357	27.150	27.091	1.056	-9.510	3.898	63.900
119	5.950	19.521	20.720	20.661	0.858	-9.500	4.153	45.300
120	6.000	19.685	36.090	36.032	1.167	-9.340	3.239	38.600
121	6.050	19.849	47.380	47.366	1.130	-2.320	2.386	31.800
122	6.100	20.013	37.510	37.510	1.286	-0.040	3.428	32.900
123	6.150	20.177	72.980	72.981	1.958	0.240	2.683	37.400
124	6.200	20.341	61.750	61.759	1.992	1.370	3.225	49.200
125	6.250	20.505	34.350	34.364	1.891	2.280	5.503	56.200
126	6.300	20.669	35.840	35.856	0.899	2.540	2.507	65.100
127	6.350	20.833	38.840	38.853	0.862	2.090	2.219	68.200
128	6.400	20.997	36.600	36.608	0.585	1.270	1.598	80.000
129	6.450	21.161	34.920	34.907	0.557	-2.040	1.596	88.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	29.810	29.793	0.562	-2.680	1.886	71.700
131	6.550	21.489	22.810	22.788	0.498	-3.500	2.185	76.400
132	6.600	21.653	26.180	26.155	0.469	-4.000	1.793	60.300
133	6.650	21.817	31.090	31.083	0.510	-1.120	1.641	56.800
134	6.700	21.981	21.800	21.802	0.587	0.320	2.692	41.800
135	6.750	22.145	16.100	16.094	0.748	-0.920	4.648	32.900
136	6.800	22.309	31.890	31.889	0.853	-0.180	2.675	26.700
137	6.850	22.473	20.260	20.270	0.970	1.540	4.785	23.700
138	6.900	22.638	23.710	23.726	0.951	2.590	4.008	28.000
139	6.950	22.802	30.340	30.344	0.710	0.580	2.340	32.500
140	7.000	22.966	33.780	33.788	0.772	1.290	2.285	35.300
141	7.050	23.130	27.400	27.408	0.626	1.240	2.284	41.000
142	7.100	23.294	37.860	37.866	0.450	1.010	1.188	40.800
143	7.150	23.458	54.620	54.623	0.313	0.440	0.573	46.900
144	7.200	23.622	48.260	48.264	0.395	0.700	0.818	35.800
145	7.250	23.786	36.820	36.829	0.602	1.430	1.635	28.400
146	7.300	23.950	34.950	34.960	1.188	1.620	3.398	33.300
147	7.350	24.114	36.030	36.030	1.338	0.030	3.714	21.100
148	7.400	24.278	63.700	63.687	1.144	-2.020	1.796	30.000
149	7.450	24.442	109.110	109.105	1.222	-0.850	1.120	29.000
150	7.500	24.606	113.720	113.740	1.411	3.200	1.241	35.700
151	7.550	24.770	37.110	37.135	1.148	4.040	3.091	39.200
152	7.600	24.934	20.010	20.036	1.054	4.130	5.261	39.100
153	7.650	25.098	16.750	16.779	0.566	4.640	3.373	58.400
154	7.700	25.262	12.380	12.412	0.337	5.050	2.715	50.300
155	7.750	25.426	11.070	11.101	0.377	5.010	3.396	60.600
156	7.800	25.590	23.000	23.029	0.318	4.670	1.381	50.600
157	7.850	25.754	15.910	15.936	0.319	4.170	2.002	55.600
158	7.900	25.918	11.860	11.884	0.311	3.880	2.617	41.600
159	7.950	26.082	13.400	13.424	0.403	3.790	3.002	32.000
160	8.000	26.246	23.220	23.239	0.644	3.060	2.771	26.800
161	8.050	26.410	45.080	45.090	0.930	1.550	2.063	26.300
162	8.100	26.574	28.760	28.779	1.099	3.100	3.819	29.200
163	8.150	26.739	35.260	35.281	1.136	3.330	3.220	27.600
164	8.200	26.903	35.180	35.196	0.930	2.590	2.642	27.100
165	8.250	27.067	33.420	33.434	0.803	2.240	2.402	24.900
166	8.300	27.231	46.680	46.704	0.606	3.790	1.298	16.100
167	8.350	27.395	56.430	56.437	0.895	1.090	1.586	10.800
168	8.400	27.559	41.780	41.796	0.653	2.630	1.562	9.000
169	8.450	27.723	16.930	16.942	0.851	1.920	5.023	14.000
170	8.500	27.887	16.260	16.269	0.671	1.500	4.124	9.200
171	8.550	28.051	25.200	25.210	0.844	1.670	3.348	15.200
172	8.600	28.215	33.110	33.122	0.978	1.930	2.953	6.400
173	8.650	28.379	40.450	40.457	1.163	1.150	2.875	8.200
174	8.700	28.543	27.240	27.247	1.475	1.070	5.414	10.700
175	8.750	28.707	34.740	34.749	0.925	1.380	2.662	6.600
176	8.800	28.871	34.560	34.567	1.094	1.180	3.165	9.200
177	8.850	29.035	57.900	57.907	1.266	1.050	2.186	13.200
178	8.900	29.199	60.120	60.132	1.666	1.860	2.771	20.500
179	8.950	29.363	35.030	35.039	1.635	1.460	4.666	4.500
180	9.000	29.527	27.950	27.962	1.575	1.850	5.633	13.400
181	9.050	29.691	24.920	24.930	1.313	1.590	5.267	15.300
182	9.100	29.855	31.130	31.136	1.343	0.990	4.313	18.600
183	9.150	30.019	47.280	47.279	1.096	-0.200	2.318	24.900
184	9.200	30.183	36.820	36.823	1.018	0.540	2.765	20.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	24.910	24.910	0.930	0.070	3.733	24.300
186	9.300	30.511	64.080	64.094	1.273	2.300	1.986	30.700
187	9.350	30.675	44.410	44.423	0.915	2.060	2.060	39.200
188	9.400	30.840	24.510	24.527	0.868	2.700	3.539	46.900
189	9.450	31.004	31.110	31.123	0.397	2.100	1.276	46.000
190	9.500	31.168	21.810	21.820	0.272	1.530	1.247	42.600
191	9.550	31.332	23.380	23.387	0.371	1.140	1.586	53.900
192	9.600	31.496	21.010	21.015	0.456	0.780	2.170	50.400
193	9.650	31.660	25.060	25.054	0.257	-1.020	1.026	48.500
194	9.700	31.824	22.310	22.302	0.314	-1.270	1.408	43.800
195	9.750	31.988	20.180	20.184	0.492	0.660	2.438	39.700
196	9.800	32.152	30.220	30.233	0.508	2.020	1.680	29.500
197	9.850	32.316	75.720	75.733	1.096	2.040	1.447	26.100
198	9.900	32.480	88.330	88.343	1.773	2.130	2.007	28.700
199	9.950	32.644	65.140	65.157	2.138	2.750	3.281	36.100
200	10.000	32.808	52.450	52.463	1.852	2.060	3.530	38.200
201	10.050	32.972	24.340	24.348	1.319	1.250	5.417	44.400
202	10.100	33.136	27.340	27.350	0.838	1.640	3.064	41.000
203	10.150	33.300	20.160	20.180	0.724	3.220	3.588	43.700
204	10.200	33.464	41.520	41.547	1.046	4.400	2.518	31.400
205	10.250	33.628	68.490	68.516	1.704	4.130	2.487	27.100
206	10.300	33.792	76.190	76.220	2.780	4.750	3.647	27.200
207	10.350	33.956	85.000	85.028	3.170	4.510	3.728	18.200
208	10.400	34.120	59.380	59.410	2.891	4.880	4.866	14.200
209	10.450	34.284	49.560	49.588	2.068	4.470	4.170	15.600
210	10.500	34.448	66.580	66.597	1.923	2.790	2.887	13.600
211	10.550	34.612	67.220	67.241	1.796	3.400	2.671	23.700
212	10.600	34.776	48.350	48.370	3.088	3.260	6.384	27.100
213	10.650	34.941	104.430	104.459	3.112	4.590	2.979	31.800
214	10.700	35.105	147.890	147.932	3.081	6.750	2.083	37.300
215	10.750	35.269	91.060	91.106	2.283	7.400	2.506	48.800
216	10.800	35.433	57.040	57.069	1.601	4.650	2.805	60.900
217	10.850	35.597	39.900	39.926	1.223	4.170	3.063	76.000
218	10.900	35.761	19.230	19.264	0.956	5.380	4.963	56.200
219	10.950	35.925	13.290	13.329	0.765	6.240	5.739	52.300
220	11.000	36.089	28.200	28.241	0.794	6.580	2.812	46.500
221	11.050	36.253	43.510	43.550	0.747	6.420	1.715	38.000
222	11.100	36.417	25.960	25.997	0.734	6.000	2.823	30.900
223	11.150	36.581	34.930	34.962	0.600	5.170	1.716	23.100
224	11.200	36.745	26.360	26.389	0.541	4.690	2.050	25.500
225	11.250	36.909	36.090	36.116	0.448	4.230	1.240	40.900
226	11.300	37.073	29.790	29.816	0.398	4.100	1.335	37.100
227	11.350	37.237	33.860	33.882	0.506	3.500	1.493	51.400
228	11.400	37.401	24.060	24.080	0.570	3.280	2.367	43.000
229	11.450	37.565	27.490	27.512	0.586	3.540	2.130	45.000
230	11.500	37.729	27.240	27.263	0.745	3.760	2.733	45.700
231	11.550	37.893	40.440	40.454	1.051	2.300	2.598	49.800
232	11.600	38.057	42.440	42.459	0.872	3.040	2.054	37.500
233	11.650	38.221	31.580	31.600	0.916	3.150	2.899	28.700
234	11.700	38.385	28.120	28.134	0.834	2.270	2.964	27.100
235	11.750	38.549	23.510	23.526	0.730	2.500	3.103	21.400
236	11.800	38.713	25.750	25.767	0.983	2.650	3.815	16.400
237	11.850	38.877	46.740	46.757	1.023	2.750	2.188	16.200
238	11.900	39.042	68.960	68.975	1.442	2.400	2.091	14.000
239	11.950	39.206	51.190	51.210	1.684	3.170	3.288	15.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	43.810	43.833	1.640	3.670	3.741	15.300
241	12.050	39.534	32.440	32.456	1.088	2.560	3.352	17.500
242	12.100	39.698	24.020	24.040	0.822	3.190	3.419	19.400
243	12.150	39.862	20.540	20.563	0.596	3.680	2.898	16.100
244	12.200	40.026	73.470	73.499	0.931	4.720	1.267	21.100
245	12.250	40.190	64.200	64.227	1.024	4.380	1.594	29.300
246	12.300	40.354	60.910	60.935	1.032	4.070	1.694	29.000
247	12.350	40.518	56.240	56.266	1.191	4.240	2.117	35.900
248	12.400	40.682	47.930	47.957	0.519	4.370	1.082	39.000
249	12.450	40.846	33.230	33.258	0.634	4.510	1.906	30.900
250	12.500	41.010	25.770	25.798	0.764	4.410	2.962	36.200
251	12.550	41.174	31.630	31.656	0.951	4.100	3.004	35.700
252	12.600	41.338	26.930	26.961	0.899	4.990	3.334	52.400
253	12.650	41.502	32.490	32.523	0.732	5.320	2.251	44.400
254	12.700	41.666	37.160	37.192	0.543	5.110	1.460	52.500
255	12.750	41.830	22.110	22.139	0.353	4.570	1.595	54.900
256	12.800	41.994	29.660	29.695	0.593	5.540	1.997	46.800
257	12.850	42.158	50.550	50.589	0.777	6.240	1.536	42.900
258	12.900	42.322	32.640	32.680	0.806	6.430	2.466	45.200
259	12.950	42.486	40.820	40.859	1.005	6.210	2.460	42.300
260	13.000	42.650	40.720	40.762	1.017	6.800	2.495	45.100
261	13.050	42.814	47.370	47.408	0.943	6.020	1.989	36.000
262	13.100	42.978	42.900	42.938	0.886	6.020	2.063	35.400
263	13.150	43.143	47.670	47.708	1.045	6.040	2.190	22.000
264	13.200	43.307	45.310	45.351	1.053	6.550	2.322	20.800
265	13.250	43.471	29.570	29.611	0.866	6.520	2.925	18.900
266	13.300	43.635	24.290	24.325	0.723	5.610	2.972	12.700
267	13.350	43.799	16.420	16.454	0.778	5.500	4.728	9.200
268	13.400	43.963	31.380	31.415	0.584	5.670	1.859	14.800
269	13.450	44.127	12.030	12.067	0.483	5.880	4.003	9.800
270	13.500	44.291	26.130	26.166	0.740	5.710	2.828	8.700
271	13.550	44.455	44.810	44.851	0.821	6.540	1.831	10.400
272	13.600	44.619	50.240	50.280	1.037	6.460	2.062	9.900
273	13.650	44.783	39.470	39.510	1.149	6.440	2.908	10.500
274	13.700	44.947	27.860	27.899	1.084	6.280	3.885	9.800
275	13.750	45.111	22.350	22.399	0.990	7.900	4.420	8.200
276	13.800	45.275	28.250	28.302	1.508	8.270	5.328	8.800
277	13.850	45.439	39.090	39.139	1.673	7.800	4.275	8.100
278	13.900	45.603	29.160	29.198	1.470	6.040	5.035	14.300
279	13.950	45.767	19.580	19.618	1.029	6.140	5.245	11.700
280	14.000	45.931	32.310	32.351	0.699	6.630	2.161	14.600
281	14.050	46.095	26.560	26.601	0.709	6.500	2.665	13.900
282	14.100	46.259	19.180	19.220	0.828	6.330	4.308	28.300
283	14.150	46.423	11.740	11.783	0.653	6.860	5.542	28.300
284	14.200	46.587	10.070	10.120	0.638	8.030	6.304	40.500
285	14.250	46.751	26.190	26.241	0.525	8.090	2.001	44.000
286	14.300	46.915	37.420	37.474	0.539	8.570	1.438	62.400
287	14.350	47.079	50.690	50.742	0.464	8.290	0.914	59.200
288	14.400	47.244	60.020	60.067	0.229	7.580	0.381	70.700
289	14.450	47.408	67.260	67.308	0.294	7.710	0.437	64.100
290	14.500	47.572	80.210	80.258	0.374	7.720	0.466	58.900
291	14.550	47.736	85.520	85.569	0.456	7.770	0.533	60.300
292	14.600	47.900	90.030	90.078	0.583	7.680	0.647	56.500
293	14.650	48.064	92.110	92.158	0.663	7.700	0.719	66.100
294	14.700	48.228	97.830	97.879	0.706	7.820	0.721	58.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	117.870	117.919	0.719	7.770	0.610	65.200
296	14.800	48.556	170.950	170.999	0.832	7.880	0.487	62.700
297	14.850	48.720	200.990	201.040	1.061	8.020	0.528	58.900
298	14.900	48.884	223.340	223.391	1.278	8.210	0.572	61.200
299	14.950	49.048	237.280	237.331	1.506	8.240	0.635	51.000
300	15.000	49.212	251.860	251.913	1.701	8.440	0.675	46.400
301	15.050	49.376	256.670	256.723	1.885	8.430	0.734	49.900
302	15.100	49.540	249.410	249.463	1.927	8.440	0.772	43.200
303	15.150	49.704	240.020	240.073	1.952	8.530	0.813	40.600
304	15.200	49.868	228.960	229.013	1.914	8.510	0.836	53.300
305	15.250	50.032	221.040	221.094	1.886	8.620	0.853	46.900
306	15.300	50.196	218.460	218.515	1.830	8.780	0.837	45.000
307	15.350	50.360	220.540	220.595	1.817	8.760	0.824	50.800
308	15.400	50.524	222.790	222.845	1.803	8.840	0.809	47.100
309	15.450	50.688	215.600	215.656	1.883	8.970	0.873	49.300
310	15.500	50.852	205.070	205.128	1.839	9.240	0.897	47.600
311	15.550	51.016	219.090	219.148	1.662	9.300	0.758	53.400
312	15.600	51.180	254.650	254.709	1.840	9.390	0.722	46.900
313	15.650	51.345	292.270	292.329	2.161	9.510	0.739	60.100
314	15.700	51.509	319.070	319.131	2.507	9.760	0.786	53.800
315	15.750	51.673	328.900	328.962	2.967	9.940	0.902	51.400
316	15.800	51.837	320.710	320.773	3.146	10.160	0.981	64.100
317	15.850	52.001	286.080	286.144	3.050	10.200	1.066	56.400
318	15.900	52.165	262.640	262.705	2.737	10.460	1.042	50.100
319	15.950	52.329	252.630	252.694	2.397	10.290	0.949	47.800
320	16.000	52.493	250.810	250.875	2.193	10.400	0.874	46.600
321	16.050	52.657	255.780	255.846	2.172	10.570	0.849	47.500
322	16.100	52.821	251.240	251.306	2.156	10.630	0.858	51.000
323	16.150	52.985	233.530	233.597	2.167	10.720	0.928	43.600
324	16.200	53.149	219.340	219.406	1.914	10.580	0.872	54.600
325	16.250	53.313	214.730	214.796	1.838	10.620	0.856	47.300
326	16.300	53.477	195.050	195.116	1.832	10.560	0.939	51.200
327	16.350	53.641	173.410	173.477	1.773	10.660	1.022	47.900
328	16.400	53.805	161.380	161.446	1.493	10.600	0.925	51.800
329	16.450	53.969	154.830	154.895	1.321	10.490	0.853	48.900
330	16.500	54.133	156.770	156.835	1.134	10.460	0.723	51.800
331	16.550	54.297	175.710	175.774	1.101	10.270	0.626	58.000
332	16.600	54.461	203.850	203.915	1.270	10.460	0.623	53.000
333	16.650	54.625	221.580	221.644	1.612	10.320	0.727	47.100
334	16.700	54.789	221.090	221.156	1.803	10.540	0.815	0.000
335	16.750	54.953	213.590	213.657	1.860	10.660	0.871	0.000
336	16.800	55.117	213.120	213.185	1.727	10.430	0.810	0.000
337	16.850	55.281	224.930	224.996	1.629	10.550	0.724	0.000
338	16.900	55.446	225.160	225.226	1.607	10.510	0.714	0.000
339	16.950	55.610	219.060	219.126	1.544	10.540	0.705	0.000
340	17.000	55.774	207.960	208.026	1.438	10.520	0.691	0.000
341	17.050	55.938	189.730	189.796	1.355	10.620	0.714	0.000
342	17.100	56.102	168.570	168.637	1.263	10.680	0.749	0.000
343	17.150	56.266	151.790	151.855	1.053	10.480	0.693	0.000
344	17.200	56.430	134.380	134.444	0.885	10.270	0.658	0.000
345	17.250	56.594	122.790	122.853	0.791	10.170	0.644	0.000
346	17.300	56.758	106.390	106.453	0.715	10.170	0.672	0.000
347	17.350	56.922	92.490	92.553	0.663	10.160	0.716	0.000
348	17.400	57.086	81.820	81.882	0.000	10.010	0.000	0.000
349	17.450	57.250	63.080	63.142	0.000	9.960	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221671
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-111A
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-13-2013
CPT Time:	12:09
CPT File:	13-53075_GP111A.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722238.554
Northing / Lat:	4294352.215
Elevation:	144.865
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	17.720	17.721	0.067	0.140	0.378	24.500
2	0.100	0.328	25.670	25.669	0.220	-0.140	0.857	42.800
3	0.150	0.492	49.700	49.700	0.175	0.010	0.352	49.600
4	0.200	0.656	52.300	52.301	0.204	0.140	0.390	68.900
5	0.250	0.820	38.780	38.782	0.469	0.260	1.209	65.800
6	0.300	0.984	28.590	28.591	0.597	0.130	2.088	76.500
7	0.350	1.148	18.950	18.951	0.681	0.100	3.594	77.800
8	0.400	1.312	14.740	14.741	0.776	0.140	5.264	78.600
9	0.450	1.476	10.500	10.501	0.663	0.170	6.314	86.200
10	0.500	1.640	3.950	3.952	1.710	0.390	43.264	78.800
11	0.550	1.804	14.670	14.672	1.063	0.300	7.245	79.600
12	0.600	1.968	7.420	7.422	0.673	0.250	9.068	84.900
13	0.650	2.133	12.100	12.101	0.836	0.190	6.908	86.200
14	0.700	2.297	13.740	13.740	0.829	0.030	6.033	84.100
15	0.750	2.461	10.810	10.811	0.752	0.130	6.956	85.100
16	0.800	2.625	7.680	7.680	0.639	0.020	8.320	98.100
17	0.850	2.789	8.370	8.372	0.672	0.260	8.027	82.200
18	0.900	2.953	22.580	22.581	0.796	0.240	3.525	85.400
19	0.950	3.117	37.400	37.402	0.808	0.370	2.160	79.900

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	36.030	36.027	0.701	-0.440	1.946	79.900
21	1.050	3.445	31.200	31.223	0.555	3.650	1.778	97.800
22	1.100	3.609	26.500	26.498	0.851	-0.320	3.212	77.200
23	1.150	3.773	28.190	28.196	0.813	0.910	2.883	86.400
24	1.200	3.937	23.350	23.356	0.854	0.940	3.656	89.900
25	1.250	4.101	17.160	17.166	0.720	0.990	4.194	104.700
26	1.300	4.265	13.540	13.546	0.469	0.900	3.462	103.200
27	1.350	4.429	12.650	12.654	0.318	0.580	2.513	116.500
28	1.400	4.593	11.100	11.108	0.350	1.300	3.151	110.700
29	1.450	4.757	11.660	11.660	0.300	-0.060	2.573	114.700
30	1.500	4.921	10.330	10.335	0.295	0.860	2.854	110.400
31	1.550	5.085	10.350	10.356	0.281	0.920	2.713	104.600
32	1.600	5.249	9.840	9.844	0.268	0.590	2.723	99.300
33	1.650	5.413	10.110	10.113	0.258	0.520	2.551	111.800
34	1.700	5.577	10.270	10.274	0.277	0.590	2.696	110.700
35	1.750	5.741	9.530	9.531	0.237	0.090	2.487	123.100
36	1.800	5.905	10.010	10.012	0.232	0.320	2.317	121.400
37	1.850	6.069	9.460	9.463	0.240	0.510	2.536	117.600
38	1.900	6.234	9.290	9.292	0.219	0.300	2.357	114.400
39	1.950	6.398	10.300	10.302	0.300	0.330	2.912	127.800
40	2.000	6.562	12.710	12.712	0.336	0.300	2.643	103.100
41	2.050	6.726	14.000	14.004	0.343	0.640	2.449	107.100
42	2.100	6.890	12.640	12.643	0.364	0.470	2.879	105.500
43	2.150	7.054	10.110	10.113	0.414	0.550	4.094	103.700
44	2.200	7.218	9.440	9.448	0.438	1.300	4.636	87.400
45	2.250	7.382	17.710	17.736	0.414	4.190	2.334	89.000
46	2.300	7.546	35.230	35.241	0.510	1.790	1.447	86.100
47	2.350	7.710	39.670	39.675	0.492	0.840	1.240	94.100
48	2.400	7.874	38.300	38.259	0.645	-6.630	1.686	105.300
49	2.450	8.038	37.860	37.825	0.729	-5.580	1.927	88.400
50	2.500	8.202	37.340	37.302	0.752	-6.150	2.016	104.800
51	2.550	8.366	38.610	38.558	0.699	-8.290	1.813	91.500
52	2.600	8.530	35.000	34.937	0.666	-10.100	1.906	77.200
53	2.650	8.694	32.620	32.552	0.638	-10.910	1.960	68.000
54	2.700	8.858	38.810	38.767	0.887	-6.850	2.288	64.700
55	2.750	9.022	54.000	53.998	1.077	-0.320	1.995	59.200
56	2.800	9.186	40.510	40.516	0.979	0.890	2.416	54.200
57	2.850	9.350	25.930	25.927	0.899	-0.560	3.467	41.900
58	2.900	9.514	24.250	24.254	0.476	0.590	1.963	36.400
59	2.950	9.678	33.560	33.560	0.551	-0.010	1.642	28.800
60	3.000	9.842	34.160	34.162	0.538	0.310	1.575	30.800
61	3.050	10.006	30.760	30.753	0.573	-1.180	1.863	22.500
62	3.100	10.170	24.600	24.604	0.528	0.640	2.146	21.200
63	3.150	10.335	45.600	45.599	0.448	-0.210	0.982	17.800
64	3.200	10.499	46.440	46.441	0.271	0.230	0.584	13.800
65	3.250	10.663	34.640	34.638	0.525	-0.250	1.516	20.300
66	3.300	10.827	18.420	18.419	0.455	-0.180	2.470	20.700
67	3.350	10.991	10.730	10.725	0.245	-0.740	2.284	17.400
68	3.400	11.155	10.180	10.183	0.219	0.530	2.151	18.200
69	3.450	11.319	7.860	7.858	0.235	-0.380	2.991	24.000
70	3.500	11.483	18.160	18.155	0.208	-0.730	1.146	21.200
71	3.550	11.647	26.490	26.500	0.198	1.680	0.747	26.400
72	3.600	11.811	33.600	33.614	0.410	2.270	1.220	27.500
73	3.650	11.975	21.790	21.795	0.321	0.840	1.473	27.500
74	3.700	12.139	15.580	15.572	0.507	-1.240	3.256	28.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	35.490	35.485	0.741	-0.770	2.088	20.800
76	3.800	12.467	71.500	71.501	0.617	0.220	0.863	25.800
77	3.850	12.631	116.600	116.602	1.151	0.300	0.987	20.300
78	3.900	12.795	93.030	93.025	1.222	-0.790	1.314	16.200
79	3.950	12.959	18.320	18.314	1.297	-1.000	7.082	16.800
80	4.000	13.123	17.420	17.417	0.713	-0.490	4.094	20.500
81	4.050	13.287	8.940	8.933	0.423	-1.080	4.735	15.200
82	4.100	13.451	11.940	11.936	0.367	-0.680	3.075	21.300
83	4.150	13.615	11.430	11.428	0.413	-0.380	3.614	21.700
84	4.200	13.779	11.260	11.256	0.342	-0.590	3.038	30.000
85	4.250	13.943	10.680	10.680	0.367	-0.030	3.436	32.300
86	4.300	14.107	22.980	22.978	0.238	-0.390	1.036	26.900
87	4.350	14.271	9.600	9.595	0.296	-0.760	3.085	33.700
88	4.400	14.436	12.970	12.971	0.196	0.240	1.511	41.700
89	4.450	14.600	15.130	15.142	0.338	1.910	2.232	45.100
90	4.500	14.764	19.120	19.112	0.405	-1.270	2.119	68.300
91	4.550	14.928	17.870	17.924	0.402	8.680	2.243	81.600
92	4.600	15.092	27.590	27.608	0.365	2.930	1.322	98.400
93	4.650	15.256	22.260	22.263	0.521	0.520	2.340	104.500
94	4.700	15.420	17.350	17.367	0.411	2.690	2.367	100.500
95	4.750	15.584	13.680	13.742	0.276	9.920	2.008	91.300
96	4.800	15.748	9.060	9.050	0.243	-1.660	2.685	81.900
97	4.850	15.912	4.040	4.044	0.173	0.650	4.278	68.300
98	4.900	16.076	3.660	3.662	0.111	0.260	3.031	64.000
99	4.950	16.240	2.900	2.910	0.128	1.610	4.399	63.400
100	5.000	16.404	8.270	8.287	0.235	2.740	2.836	57.500
101	5.050	16.568	12.430	12.433	0.331	0.460	2.662	64.800
102	5.100	16.732	17.530	17.536	0.397	0.980	2.264	77.900
103	5.150	16.896	29.530	29.537	0.419	1.060	1.419	79.600
104	5.200	17.060	39.100	39.094	0.390	-0.920	0.998	80.100
105	5.250	17.224	38.720	38.664	0.333	-9.040	0.861	65.200
106	5.300	17.388	34.370	34.294	0.354	-12.210	1.032	56.800
107	5.350	17.552	32.200	32.191	0.372	-1.520	1.156	47.800
108	5.400	17.716	31.250	31.252	0.506	0.270	1.619	34.500
109	5.450	17.880	19.080	19.079	0.395	-0.240	2.070	37.900
110	5.500	18.044	30.390	30.391	0.830	0.090	2.731	24.400
111	5.550	18.208	47.600	47.596	0.648	-0.680	1.361	19.200
112	5.600	18.372	12.470	12.471	0.541	0.180	4.338	19.700
113	5.650	18.537	11.210	11.211	0.193	0.120	1.722	13.900
114	5.700	18.701	2.410	2.411	0.322	0.100	13.358	11.100
115	5.750	18.865	75.940	75.942	0.513	0.280	0.676	7.900
116	5.800	19.029	125.470	125.470	0.732	0.080	0.583	6.800
117	5.850	19.193	160.760	160.759	2.533	-0.150	1.576	4.200
118	5.900	19.357	180.260	180.261	5.086	0.090	2.821	4.300
119	5.950	19.521	168.780	168.785	4.788	0.820	2.837	5.800
120	6.000	19.685	40.570	40.646	2.952	12.110	7.263	4.700
121	6.050	19.849	59.440	59.567	1.268	20.360	2.129	6.900
122	6.100	20.013	57.550	57.565	0.655	2.420	1.138	10.200
123	6.150	20.177	51.850	51.819	0.608	-4.920	1.173	6.200
124	6.200	20.341	33.040	33.007	0.796	-5.240	2.412	15.400
125	6.250	20.505	46.410	46.412	0.715	0.270	1.541	15.600
126	6.300	20.669	73.420	73.425	1.035	0.840	1.410	27.600
127	6.350	20.833	34.960	34.969	0.904	1.460	2.585	30.800
128	6.400	20.997	33.740	33.734	0.999	-0.890	2.961	31.200
129	6.450	21.161	48.110	48.107	1.039	-0.530	2.160	33.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	32.310	32.304	1.123	-1.040	3.476	31.300
131	6.550	21.489	38.620	38.618	0.681	-0.280	1.763	24.900
132	6.600	21.653	22.850	22.855	0.374	0.800	1.636	23.000
133	6.650	21.817	31.970	31.972	0.348	0.290	1.088	22.000
134	6.700	21.981	23.820	23.824	0.235	0.630	0.986	23.800
135	6.750	22.145	10.840	10.845	0.725	0.730	6.685	19.900
136	6.800	22.309	21.070	21.079	0.869	1.400	4.123	22.500
137	6.850	22.473	22.200	22.205	0.812	0.870	3.657	18.400
138	6.900	22.638	14.130	14.136	0.722	1.010	5.107	16.600
139	6.950	22.802	9.480	9.488	0.407	1.320	4.290	13.900
140	7.000	22.966	7.830	7.839	0.218	1.410	2.781	13.100
141	7.050	23.130	27.440	27.447	0.417	1.060	1.519	11.200
142	7.100	23.294	20.940	20.959	0.367	3.010	1.751	14.100
143	7.150	23.458	162.230	162.241	1.901	1.690	1.172	9.900
144	7.200	23.622	255.830	255.851	3.813	3.370	1.490	13.900
145	7.250	23.786	273.100	273.121	5.309	3.420	1.944	6.800
146	7.300	23.950	174.370	174.387	4.474	2.800	2.566	11.100
147	7.350	24.114	29.270	29.292	3.791	3.550	12.942	13.600
148	7.400	24.278	24.900	24.935	2.015	5.580	8.081	17.800
149	7.450	24.442	25.640	25.701	0.887	9.800	3.451	21.000
150	7.500	24.606	23.210	23.271	0.672	9.810	2.888	24.900
151	7.550	24.770	24.400	24.430	0.584	4.850	2.390	33.700
152	7.600	24.934	27.010	27.032	0.582	3.470	2.153	43.100
153	7.650	25.098	16.180	16.208	0.599	4.460	3.696	71.900
154	7.700	25.262	21.960	21.986	0.648	4.190	2.947	108.700
155	7.750	25.426	18.120	18.133	0.447	2.150	2.465	143.900
156	7.800	25.590	12.650	12.678	0.410	4.410	3.234	145.300
157	7.850	25.754	14.700	14.738	0.320	6.080	2.171	150.300
158	7.900	25.918	17.290	17.338	0.336	7.620	1.938	159.400
159	7.950	26.082	21.820	21.867	0.350	7.460	1.601	137.200
160	8.000	26.246	17.620	17.661	0.331	6.500	1.874	133.500
161	8.050	26.410	15.970	16.012	0.260	6.720	1.624	121.500
162	8.100	26.574	17.200	17.244	0.257	7.000	1.490	116.700
163	8.150	26.739	18.750	19.085	0.289	53.640	1.514	89.800
164	8.200	26.903	18.300	18.606	0.291	48.960	1.564	96.500
165	8.250	27.067	18.950	19.249	0.274	47.960	1.423	105.700
166	8.300	27.231	23.750	23.981	0.365	36.930	1.522	88.300
167	8.350	27.395	23.960	24.100	0.403	22.430	1.672	106.400
168	8.400	27.559	23.750	23.875	0.294	20.080	1.231	94.900
169	8.450	27.723	22.570	22.674	0.390	16.640	1.720	86.900
170	8.500	27.887	18.540	18.628	0.496	14.020	2.663	90.600
171	8.550	28.051	17.120	17.204	0.491	13.430	2.854	94.400
172	8.600	28.215	16.410	16.483	0.458	11.700	2.779	89.800
173	8.650	28.379	17.280	17.355	0.448	12.030	2.581	87.000
174	8.700	28.543	21.310	21.387	0.471	12.260	2.202	89.800
175	8.750	28.707	20.270	20.346	0.430	12.250	2.113	84.300
176	8.800	28.871	16.300	16.379	0.418	12.700	2.552	89.600
177	8.850	29.035	16.350	16.435	0.428	13.590	2.604	81.100
178	8.900	29.199	13.950	14.042	0.381	14.750	2.713	88.100
179	8.950	29.363	12.520	12.616	0.390	15.400	3.091	79.800
180	9.000	29.527	13.340	13.437	0.498	15.610	3.706	59.800
181	9.050	29.691	16.360	16.456	0.748	15.410	4.545	54.800
182	9.100	29.855	35.300	35.393	0.857	14.880	2.421	49.000
183	9.150	30.019	55.620	55.719	1.318	15.790	2.365	45.500
184	9.200	30.183	52.100	52.186	2.011	13.790	3.854	44.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	41.800	41.894	1.834	15.020	4.378	42.100
186	9.300	30.511	99.580	99.661	2.286	13.010	2.294	35.700
187	9.350	30.675	57.030	57.101	2.231	11.360	3.907	43.300
188	9.400	30.840	36.880	36.952	1.686	11.490	4.563	43.200
189	9.450	31.004	48.510	48.576	1.585	10.590	3.263	45.800
190	9.500	31.168	56.280	56.337	1.615	9.210	2.867	55.100
191	9.550	31.332	26.050	26.105	1.343	8.760	5.145	63.600
192	9.600	31.496	16.200	16.261	0.933	9.700	5.738	58.900
193	9.650	31.660	23.030	23.094	0.420	10.300	1.819	64.500
194	9.700	31.824	28.490	28.548	0.429	9.360	1.503	62.400
195	9.750	31.988	30.210	30.268	0.507	9.270	1.675	63.700
196	9.800	32.152	33.200	33.258	0.563	9.230	1.693	72.600
197	9.850	32.316	30.950	31.006	0.623	9.010	2.009	61.600
198	9.900	32.480	34.480	34.537	0.640	9.100	1.853	60.800
199	9.950	32.644	39.540	39.594	0.834	8.710	2.106	59.000
200	10.000	32.808	36.760	36.813	0.724	8.530	1.967	58.800
201	10.050	32.972	31.720	31.772	0.603	8.300	1.898	62.900
202	10.100	33.136	29.650	29.701	0.681	8.210	2.293	73.600
203	10.150	33.300	23.960	24.009	0.396	7.900	1.649	77.200
204	10.200	33.464	16.570	16.620	0.595	8.000	3.580	58.500
205	10.250	33.628	22.110	22.158	0.493	7.760	2.225	57.800
206	10.300	33.792	48.940	48.981	0.613	6.570	1.252	65.200
207	10.350	33.956	71.690	71.729	0.911	6.260	1.270	68.000
208	10.400	34.120	50.810	50.849	0.886	6.170	1.742	61.600
209	10.450	34.284	39.200	39.235	1.064	5.540	2.712	55.900
210	10.500	34.448	44.940	44.975	0.851	5.640	1.892	66.700
211	10.550	34.612	32.430	32.467	1.018	5.910	3.136	64.800
212	10.600	34.776	25.420	25.454	0.967	5.420	3.799	58.300
213	10.650	34.941	16.080	16.117	0.743	5.920	4.610	67.100
214	10.700	35.105	18.490	18.540	0.576	7.990	3.107	77.700
215	10.750	35.269	21.070	21.121	0.649	8.200	3.073	70.900
216	10.800	35.433	35.760	35.816	0.733	8.910	2.047	76.000
217	10.850	35.597	39.270	39.322	0.791	8.290	2.012	76.700
218	10.900	35.761	27.840	27.890	0.814	7.960	2.919	65.700
219	10.950	35.925	49.330	49.377	0.913	7.490	1.849	62.500
220	11.000	36.089	47.110	47.172	1.223	9.870	2.593	64.400
221	11.050	36.253	41.420	41.471	1.331	8.110	3.210	54.700
222	11.100	36.417	32.330	32.378	1.134	7.700	3.502	57.100
223	11.150	36.581	24.170	24.222	0.699	8.270	2.886	70.900
224	11.200	36.745	19.020	19.072	0.377	8.360	1.977	51.000
225	11.250	36.909	19.550	19.595	0.360	7.200	1.837	36.400
226	11.300	37.073	30.260	30.296	0.299	5.760	0.987	34.900
227	11.350	37.237	26.660	26.692	0.529	5.130	1.982	33.900
228	11.400	37.401	39.410	39.438	0.474	4.460	1.202	31.700
229	11.450	37.565	39.930	39.955	0.293	4.040	0.733	44.600
230	11.500	37.729	31.900	31.918	0.245	2.940	0.768	55.000
231	11.550	37.893	21.640	21.661	0.248	3.330	1.145	49.900
232	11.600	38.057	18.520	18.544	0.286	3.860	1.542	48.200
233	11.650	38.221	18.680	18.706	0.270	4.120	1.443	49.500
234	11.700	38.385	25.440	25.468	0.308	4.560	1.209	41.800
235	11.750	38.549	40.580	40.600	0.230	3.200	0.567	31.600
236	11.800	38.713	42.600	42.618	0.224	2.960	0.526	26.500
237	11.850	38.877	45.190	45.206	0.515	2.530	1.139	24.300
238	11.900	39.042	42.250	42.262	0.720	1.900	1.704	25.600
239	11.950	39.206	40.410	40.424	0.984	2.190	2.434	20.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	53.300	53.316	1.130	2.490	2.119	16.800
241	12.050	39.534	58.420	58.439	1.308	3.000	2.238	11.400
242	12.100	39.698	52.540	52.566	1.647	4.230	3.133	9.700
243	12.150	39.862	51.640	51.662	1.761	3.590	3.409	11.900
244	12.200	40.026	50.190	50.210	1.675	3.240	3.336	10.700
245	12.250	40.190	53.190	53.209	1.749	3.070	3.287	5.700
246	12.300	40.354	53.050	53.069	1.225	3.120	2.308	5.000
247	12.350	40.518	45.720	45.737	1.767	2.650	3.863	6.600
248	12.400	40.682	50.800	50.814	1.062	2.190	2.090	12.700
249	12.450	40.846	46.450	46.461	0.775	1.750	1.668	11.100
250	12.500	41.010	41.140	41.153	0.451	2.070	1.096	12.100
251	12.550	41.174	40.390	40.405	0.572	2.480	1.416	11.200
252	12.600	41.338	30.860	30.879	0.812	3.020	2.630	18.100
253	12.650	41.502	50.640	50.659	1.024	3.020	2.021	26.000
254	12.700	41.666	26.310	26.332	0.772	3.560	2.932	27.100
255	12.750	41.830	25.430	25.455	0.988	4.070	3.881	23.700
256	12.800	41.994	35.570	35.598	0.851	4.450	2.391	22.500
257	12.850	42.158	24.940	24.971	0.638	5.010	2.555	22.900
258	12.900	42.322	40.790	40.821	0.898	4.890	2.200	28.800
259	12.950	42.486	34.030	34.052	1.096	3.520	3.219	27.600
260	13.000	42.650	15.950	15.976	0.819	4.140	5.126	25.700
261	13.050	42.814	24.870	24.900	0.683	4.760	2.743	27.800
262	13.100	42.978	52.540	52.567	0.827	4.270	1.573	32.200
263	13.150	43.143	30.040	30.069	0.834	4.700	2.774	45.500
264	13.200	43.307	24.290	24.317	0.900	4.310	3.701	59.900
265	13.250	43.471	25.500	25.526	0.400	4.130	1.567	70.600
266	13.300	43.635	24.930	24.957	0.289	4.250	1.158	69.800
267	13.350	43.799	30.590	30.618	0.268	4.470	0.875	78.700
268	13.400	43.963	51.350	51.382	0.260	5.190	0.506	79.900
269	13.450	44.127	63.830	63.863	0.438	5.350	0.686	66.800
270	13.500	44.291	48.320	48.351	0.745	4.910	1.541	64.800
271	13.550	44.455	37.460	37.490	0.982	4.790	2.619	67.200
272	13.600	44.619	24.690	24.719	0.681	4.690	2.755	71.000
273	13.650	44.783	38.920	38.958	0.461	6.070	1.183	72.300
274	13.700	44.947	90.040	90.078	0.645	6.110	0.716	68.300
275	13.750	45.111	88.350	88.384	1.136	5.490	1.285	66.100
276	13.800	45.275	70.970	71.005	1.174	5.580	1.653	61.300
277	13.850	45.439	63.920	63.950	1.377	4.790	2.153	52.700
278	13.900	45.603	39.250	39.277	1.348	4.360	3.432	42.600
279	13.950	45.767	28.680	28.715	1.208	5.650	4.207	28.500
280	14.000	45.931	36.560	36.597	1.365	6.000	3.730	29.100
281	14.050	46.095	37.510	37.543	1.689	5.350	4.499	24.900
282	14.100	46.259	35.990	36.021	1.719	5.040	4.772	14.400
283	14.150	46.423	56.930	56.968	1.902	6.050	3.339	18.900
284	14.200	46.587	82.680	82.718	2.067	6.030	2.499	26.400
285	14.250	46.751	51.770	51.807	2.226	5.940	4.297	10.500
286	14.300	46.915	47.560	47.599	1.557	6.300	3.271	24.500
287	14.350	47.079	41.130	41.166	1.183	5.830	2.874	27.400
288	14.400	47.244	42.310	42.347	1.208	5.940	2.853	29.000
289	14.450	47.408	44.520	44.553	1.228	5.230	2.756	33.800
290	14.500	47.572	44.390	44.421	1.406	5.020	3.165	34.600
291	14.550	47.736	44.080	44.120	1.552	6.470	3.518	39.300
292	14.600	47.900	72.890	72.933	2.192	6.950	3.005	29.500
293	14.650	48.064	88.450	88.491	1.968	6.630	2.224	24.100
294	14.700	48.228	116.500	116.533	2.487	5.320	2.134	19.500

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	82.270	82.288	2.612	2.830	3.174	17.100
296	14.800	48.556	81.950	81.974	3.259	3.900	3.976	15.900
297	14.850	48.720	94.930	94.964	3.733	5.400	3.931	13.700
298	14.900	48.884	100.220	100.256	3.902	5.800	3.892	12.000
299	14.950	49.048	78.100	78.141	3.727	6.620	4.770	17.700
300	15.000	49.212	67.600	67.654	2.676	8.570	3.955	12.900
301	15.050	49.376	75.560	75.611	1.880	8.100	2.486	16.900
302	15.100	49.540	70.200	70.249	1.191	7.910	1.695	19.500
303	15.150	49.704	61.840	61.885	1.068	7.270	1.726	15.600
304	15.200	49.868	22.290	22.333	0.631	6.820	2.825	0.000
305	15.250	50.032	48.110	48.150	0.640	6.390	1.329	0.000
306	15.300	50.196	49.380	49.419	0.965	6.180	1.953	0.000
307	15.350	50.360	43.250	43.292	1.312	6.770	3.031	0.000
308	15.400	50.524	41.090	41.133	1.206	6.840	2.932	0.000
309	15.450	50.688	29.140	29.181	1.051	6.580	3.602	0.000
310	15.500	50.852	18.480	18.519	0.729	6.170	3.937	0.000
311	15.550	51.016	40.210	40.247	0.702	5.870	1.744	0.000
312	15.600	51.180	30.190	30.225	0.851	5.560	2.816	0.000
313	15.650	51.345	18.320	18.357	0.686	5.980	3.737	0.000
314	15.700	51.509	33.170	33.216	0.601	7.420	1.809	0.000
315	15.750	51.673	96.570	96.616	0.632	7.370	0.654	0.000
316	15.800	51.837	142.880	142.928	0.834	7.740	0.584	0.000
317	15.850	52.001	164.210	164.257	1.165	7.500	0.709	0.000
318	15.900	52.165	182.380	182.428	0.000	7.650	0.000	0.000
319	15.950	52.329	215.690	215.739	0.000	7.790	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221668
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-111
Cone ID:	268:T1500F15U500
Operator:	BM/JT/YB
CPT Date:	Nov-12-2013
CPT Time:	12:40
CPT File:	13-53075_GP111.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722238.580
Northing / Lat:	4294352.350
Elevation:	144.870
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	1.370	1.371	0.047	0.100	3.429	28.000
2	0.100	0.328	33.450	33.453	0.163	0.560	0.487	44.300
3	0.150	0.492	54.730	54.733	0.209	0.520	0.382	58.600
4	0.200	0.656	47.500	47.503	0.480	0.410	1.010	72.400
5	0.250	0.820	41.450	41.452	0.693	0.300	1.672	75.300
6	0.300	0.984	20.820	20.829	0.924	1.440	4.436	98.200
7	0.350	1.148	25.550	25.499	1.234	-8.190	4.839	96.000
8	0.400	1.312	35.420	35.348	1.437	-11.570	4.065	108.000
9	0.450	1.476	34.300	34.288	1.666	-1.970	4.859	114.100
10	0.500	1.640	37.910	37.908	1.559	-0.350	4.113	99.900
11	0.550	1.804	40.370	40.368	1.168	-0.320	2.893	113.000
12	0.600	1.968	48.610	48.609	1.119	-0.140	2.302	95.500
13	0.650	2.133	61.360	61.362	1.342	0.320	2.187	97.700
14	0.700	2.297	78.440	78.443	1.696	0.420	2.162	97.100
15	0.750	2.461	76.180	76.182	2.027	0.310	2.661	85.700
16	0.800	2.625	70.880	70.879	2.364	-0.120	3.335	91.800
17	0.850	2.789	70.310	70.310	2.155	0.000	3.065	94.000
18	0.900	2.953	59.000	58.999	1.264	-0.090	2.142	95.400
19	0.950	3.117	78.540	78.540	1.104	-0.060	1.406	91.200

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	60.500	60.500	1.075	0.050	1.777	92.300
21	1.050	3.445	53.190	53.190	1.098	-0.010	2.064	95.300
22	1.100	3.609	34.990	34.994	1.145	0.580	3.272	112.300
23	1.150	3.773	34.410	34.409	1.089	-0.200	3.165	130.700
24	1.200	3.937	34.840	34.843	0.898	0.530	2.577	107.700
25	1.250	4.101	27.590	27.591	0.975	0.230	3.534	120.600
26	1.300	4.265	21.840	21.842	0.871	0.400	3.988	117.300
27	1.350	4.429	19.290	19.291	0.863	0.160	4.474	124.900
28	1.400	4.593	22.560	22.561	0.982	0.160	4.353	105.400
29	1.450	4.757	28.030	28.028	1.161	-0.260	4.142	108.000
30	1.500	4.921	28.380	28.381	1.216	0.090	4.285	84.000
31	1.550	5.085	27.470	27.470	1.137	0.080	4.139	76.900
32	1.600	5.249	22.890	22.894	0.840	0.620	3.669	89.600
33	1.650	5.413	22.280	22.246	0.762	-5.370	3.425	87.000
34	1.700	5.577	19.320	19.299	0.680	-3.330	3.523	74.000
35	1.750	5.741	18.100	18.080	0.594	-3.260	3.285	74.000
36	1.800	5.905	18.440	18.439	0.486	-0.110	2.636	72.700
37	1.850	6.069	19.300	19.302	1.145	0.320	5.932	70.700
38	1.900	6.234	15.190	15.186	1.028	-0.720	6.770	75.200
39	1.950	6.398	98.810	98.816	1.267	0.930	1.282	78.200
40	2.000	6.562	102.140	102.150	2.117	1.540	2.072	80.300
41	2.050	6.726	85.020	85.020	2.693	-0.070	3.168	75.800
42	2.100	6.890	78.830	78.827	2.936	-0.440	3.725	59.800
43	2.150	7.054	65.270	65.269	1.819	-0.090	2.787	69.900
44	2.200	7.218	29.500	29.500	1.054	-0.070	3.573	85.600
45	2.250	7.382	20.050	20.050	0.601	0.040	2.997	88.500
46	2.300	7.546	12.610	12.614	0.560	0.600	4.440	70.700
47	2.350	7.710	12.460	12.473	0.377	2.120	3.022	76.100
48	2.400	7.874	15.120	15.143	0.358	3.620	2.364	77.300
49	2.450	8.038	17.390	17.372	0.367	-2.910	2.113	96.800
50	2.500	8.202	15.210	15.172	0.427	-6.160	2.814	98.000
51	2.550	8.366	19.140	19.099	0.462	-6.630	2.419	86.800
52	2.600	8.530	23.950	23.899	0.424	-8.170	1.774	87.000
53	2.650	8.694	29.920	29.855	0.534	-10.450	1.789	80.300
54	2.700	8.858	27.680	27.609	0.655	-11.370	2.372	83.800
55	2.750	9.022	21.810	21.715	0.548	-15.250	2.524	60.700
56	2.800	9.186	20.700	20.601	0.501	-15.930	2.432	52.700
57	2.850	9.350	15.130	15.131	0.394	0.100	2.604	61.500
58	2.900	9.514	10.910	10.911	0.388	0.090	3.556	54.700
59	2.950	9.678	8.540	8.538	0.302	-0.290	3.537	54.800
60	3.000	9.842	5.880	5.879	0.271	-0.150	4.610	41.900
61	3.050	10.006	4.120	4.112	0.283	-1.330	6.883	32.100
62	3.100	10.170	20.480	20.477	0.421	-0.500	2.056	24.000
63	3.150	10.335	33.730	33.734	0.464	0.690	1.375	25.700
64	3.200	10.499	33.160	33.157	0.462	-0.560	1.393	21.500
65	3.250	10.663	48.910	48.909	0.371	-0.120	0.759	20.700
66	3.300	10.827	22.310	22.312	0.439	0.380	1.968	27.300
67	3.350	10.991	31.670	31.674	0.486	0.720	1.534	30.100
68	3.400	11.155	23.290	23.293	0.310	0.460	1.331	40.600
69	3.450	11.319	21.280	21.280	0.453	-0.010	2.129	36.000
70	3.500	11.483	21.100	21.108	0.355	1.360	1.682	41.800
71	3.550	11.647	24.200	24.202	0.480	0.300	1.983	35.500
72	3.600	11.811	21.470	21.470	0.448	0.070	2.087	39.700
73	3.650	11.975	21.750	21.757	0.442	1.190	2.031	34.300
74	3.700	12.139	31.270	31.258	0.466	-2.000	1.491	30.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	26.050	26.041	0.478	-1.390	1.836	30.600
76	3.800	12.467	19.540	19.533	0.493	-1.050	2.524	24.200
77	3.850	12.631	20.500	20.498	0.326	-0.280	1.590	29.200
78	3.900	12.795	14.240	14.241	0.207	0.100	1.454	27.500
79	3.950	12.959	7.400	7.401	0.341	0.140	4.608	29.700
80	4.000	13.123	5.090	5.090	0.473	0.070	9.292	20.200
81	4.050	13.287	27.930	27.934	0.681	0.670	2.438	20.500
82	4.100	13.451	28.680	28.680	0.840	-0.040	2.929	21.100
83	4.150	13.615	7.320	7.321	0.714	0.120	9.753	24.100
84	4.200	13.779	18.840	18.840	0.344	-0.020	1.826	15.500
85	4.250	13.943	32.800	32.802	0.945	0.370	2.881	20.800
86	4.300	14.107	62.610	62.618	1.238	1.320	1.977	23.700
87	4.350	14.271	19.270	19.283	1.222	2.110	6.337	21.700
88	4.400	14.436	26.070	26.077	1.117	1.050	4.284	34.700
89	4.450	14.600	37.070	37.077	0.471	1.180	1.270	34.600
90	4.500	14.764	7.050	7.050	0.327	-0.050	4.639	62.000
91	4.550	14.928	11.680	11.683	0.247	0.410	2.114	62.100
92	4.600	15.092	13.970	13.983	0.280	2.150	2.002	79.200
93	4.650	15.256	18.250	18.283	0.406	5.250	2.221	77.800
94	4.700	15.420	17.030	17.054	0.644	3.880	3.776	62.800
95	4.750	15.584	14.580	14.600	0.591	3.160	4.048	58.200
96	4.800	15.748	28.840	28.862	0.882	3.600	3.056	47.800
97	4.850	15.912	41.580	41.590	0.613	1.680	1.474	39.000
98	4.900	16.076	47.350	47.364	0.640	2.270	1.351	35.500
99	4.950	16.240	63.170	63.180	0.480	1.590	0.760	29.100
100	5.000	16.404	72.390	72.395	0.820	0.790	1.133	23.800
101	5.050	16.568	147.010	147.015	1.270	0.770	0.864	27.200
102	5.100	16.732	69.020	69.018	1.364	-0.280	1.976	32.200
103	5.150	16.896	56.440	56.439	1.765	-0.180	3.127	46.200
104	5.200	17.060	58.190	58.190	1.389	0.010	2.387	54.600
105	5.250	17.224	31.520	31.522	1.188	0.380	3.769	68.900
106	5.300	17.388	23.450	23.439	0.758	-1.710	3.234	67.700
107	5.350	17.552	24.780	24.777	0.538	-0.490	2.171	74.600
108	5.400	17.716	49.020	49.026	0.765	0.980	1.560	78.600
109	5.450	17.880	73.900	73.888	0.798	-1.950	1.080	77.000
110	5.500	18.044	60.160	60.111	0.939	-7.830	1.562	63.700
111	5.550	18.208	51.140	51.077	0.907	-10.150	1.776	70.000
112	5.600	18.372	36.830	36.760	1.010	-11.140	2.748	56.200
113	5.650	18.537	30.810	30.738	0.936	-11.560	3.045	44.100
114	5.700	18.701	26.240	26.188	0.816	-8.300	3.116	32.200
115	5.750	18.865	38.440	38.440	0.754	0.080	1.961	32.600
116	5.800	19.029	40.600	40.601	1.093	0.100	2.692	21.500
117	5.850	19.193	48.080	48.080	1.311	-0.050	2.727	15.900
118	5.900	19.357	45.520	45.526	1.385	1.000	3.042	14.200
119	5.950	19.521	51.970	51.946	1.571	-3.780	3.024	11.400
120	6.000	19.685	35.530	35.529	1.700	-0.120	4.785	14.600
121	6.050	19.849	52.510	52.488	1.612	-3.460	3.071	17.500
122	6.100	20.013	74.470	74.456	1.564	-2.290	2.101	15.700
123	6.150	20.177	44.450	44.441	1.489	-1.380	3.350	20.700
124	6.200	20.341	89.170	89.176	1.441	0.920	1.616	26.000
125	6.250	20.505	91.240	91.243	1.692	0.550	1.854	33.300
126	6.300	20.669	52.450	52.451	1.280	0.150	2.440	34.000
127	6.350	20.833	11.470	11.488	0.943	2.840	8.209	38.900
128	6.400	20.997	10.540	10.588	0.426	7.650	4.024	51.400
129	6.450	21.161	16.090	16.140	0.432	8.020	2.677	38.400

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	20.990	20.977	0.371	-2.140	1.769	28.500
131	6.550	21.489	20.810	20.800	0.247	-1.600	1.187	26.900
132	6.600	21.653	59.260	59.244	0.398	-2.490	0.672	22.700
133	6.650	21.817	109.730	109.721	0.518	-1.370	0.472	23.700
134	6.700	21.981	109.830	109.831	0.930	0.210	0.847	20.000
135	6.750	22.145	31.140	31.142	0.590	0.280	1.895	23.900
136	6.800	22.309	46.340	46.334	0.675	-0.970	1.457	22.500
137	6.850	22.473	54.200	54.205	0.584	0.820	1.077	22.000
138	6.900	22.638	18.870	18.872	0.774	0.390	4.101	19.500
139	6.950	22.802	21.320	21.319	0.453	-0.210	2.125	17.600
140	7.000	22.966	29.370	29.379	0.526	1.450	1.790	15.000
141	7.050	23.130	22.280	22.281	0.476	0.150	2.136	17.700
142	7.100	23.294	10.130	10.160	0.773	4.830	7.608	16.700
143	7.150	23.458	35.760	35.789	0.777	4.610	2.171	21.500
144	7.200	23.622	23.380	23.403	0.862	3.690	3.683	11.100
145	7.250	23.786	55.950	55.971	1.643	3.310	2.935	15.900
146	7.300	23.950	172.130	172.147	2.540	2.760	1.475	25.500
147	7.350	24.114	137.710	137.727	2.445	2.780	1.775	28.000
148	7.400	24.278	147.010	147.027	2.089	2.650	1.421	31.800
149	7.450	24.442	189.760	189.783	0.666	3.620	0.351	33.300
150	7.500	24.606	218.500	218.529	0.590	4.690	0.270	45.700
151	7.550	24.770	229.360	229.410	0.393	7.970	0.171	51.900
152	7.600	24.934	243.620	243.658	1.166	6.120	0.479	52.900
153	7.650	25.098	212.530	212.547	1.670	2.740	0.786	65.800
154	7.700	25.262	165.240	165.259	2.726	3.010	1.650	77.400
155	7.750	25.426	140.340	140.361	1.037	3.360	0.739	85.700
156	7.800	25.590	113.460	113.477	1.268	2.710	1.117	63.900
157	7.850	25.754	116.240	116.261	1.981	3.340	1.704	74.000
158	7.900	25.918	50.050	50.075	1.822	3.980	3.639	87.300
159	7.950	26.082	14.840	14.899	1.370	9.410	9.195	81.400
160	8.000	26.246	19.230	19.291	0.752	9.730	3.898	81.700
161	8.050	26.410	25.310	25.370	0.666	9.630	2.625	84.700
162	8.100	26.574	26.430	26.476	0.679	7.430	2.565	80.500
163	8.150	26.739	23.570	23.599	0.706	4.660	2.992	76.600
164	8.200	26.903	19.770	19.793	0.645	3.700	3.259	69.400
165	8.250	27.067	18.420	18.433	0.872	2.110	4.731	59.500
166	8.300	27.231	20.810	20.818	0.599	1.220	2.877	38.600
167	8.350	27.395	50.830	50.843	0.954	2.090	1.876	32.500
168	8.400	27.559	49.330	49.335	1.169	0.740	2.370	27.900
169	8.450	27.723	50.210	50.219	1.574	1.460	3.134	22.400
170	8.500	27.887	38.200	38.205	1.625	0.780	4.253	23.200
171	8.550	28.051	54.250	54.267	1.553	2.690	2.862	29.500
172	8.600	28.215	98.540	98.546	1.637	0.910	1.661	24.800
173	8.650	28.379	85.570	85.573	1.800	0.410	2.103	19.300
174	8.700	28.543	107.830	107.831	1.976	0.230	1.832	19.600
175	8.750	28.707	135.920	135.918	1.997	-0.330	1.469	27.800
176	8.800	28.871	118.000	117.998	1.693	-0.270	1.435	24.500
177	8.850	29.035	79.280	79.295	1.900	2.460	2.396	29.200
178	8.900	29.199	85.120	85.136	1.926	2.590	2.262	34.400
179	8.950	29.363	69.380	69.398	1.429	2.820	2.059	47.100
180	9.000	29.527	67.570	67.586	1.001	2.590	1.481	51.100
181	9.050	29.691	64.680	64.689	0.665	1.420	1.028	40.500
182	9.100	29.855	58.280	58.287	0.548	1.200	0.940	55.800
183	9.150	30.019	52.930	52.937	0.886	1.060	1.674	49.900
184	9.200	30.183	51.050	51.057	0.651	1.090	1.275	44.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	81.470	81.480	0.178	1.560	0.218	55.700
186	9.300	30.511	121.820	121.819	0.219	-0.210	0.180	56.100
187	9.350	30.675	110.210	110.213	0.245	0.550	0.222	58.700
188	9.400	30.840	106.810	106.816	0.095	1.010	0.089	56.300
189	9.450	31.004	93.440	93.440	0.123	0.060	0.132	62.700
190	9.500	31.168	67.150	67.147	0.152	-0.480	0.226	49.000
191	9.550	31.332	53.190	53.188	0.164	-0.260	0.308	53.400
192	9.600	31.496	40.520	40.522	0.333	0.300	0.822	59.600
193	9.650	31.660	44.990	45.000	0.138	1.680	0.307	59.700
194	9.700	31.824	59.950	59.963	0.290	2.120	0.484	53.800
195	9.750	31.988	59.120	59.133	0.270	2.040	0.457	45.100
196	9.800	32.152	59.610	59.627	0.103	2.690	0.173	63.500
197	9.850	32.316	41.330	41.344	0.198	2.280	0.479	71.300
198	9.900	32.480	40.220	40.230	0.246	1.580	0.611	78.000
199	9.950	32.644	39.410	39.420	0.106	1.630	0.269	74.300
200	10.000	32.808	58.060	58.069	0.174	1.510	0.300	77.500
201	10.050	32.972	57.820	57.827	0.203	1.180	0.351	86.400
202	10.100	33.136	43.910	43.918	0.652	1.320	1.485	67.000
203	10.150	33.300	62.990	63.001	0.463	1.790	0.735	85.000
204	10.200	33.464	44.960	44.975	0.673	2.360	1.496	87.400
205	10.250	33.628	49.570	49.587	0.475	2.750	0.958	82.200
206	10.300	33.792	33.170	33.186	0.211	2.540	0.636	80.700
207	10.350	33.956	34.400	34.416	0.409	2.550	1.188	82.000
208	10.400	34.120	66.300	66.318	0.440	2.830	0.663	73.200
209	10.450	34.284	103.380	103.398	0.419	2.880	0.405	54.700
210	10.500	34.448	107.270	107.289	0.345	3.000	0.322	54.900
211	10.550	34.612	137.510	137.530	0.144	3.210	0.105	64.400
212	10.600	34.776	143.440	143.456	0.252	2.510	0.176	52.300
213	10.650	34.941	132.720	132.727	0.386	1.170	0.291	55.200
214	10.700	35.105	133.570	133.576	0.266	1.040	0.199	62.400
215	10.750	35.269	131.850	131.856	0.249	1.040	0.189	55.200
216	10.800	35.433	133.970	133.978	0.367	1.320	0.274	63.900
217	10.850	35.597	107.260	107.271	0.436	1.740	0.406	62.100
218	10.900	35.761	98.240	98.249	0.277	1.520	0.282	68.300
219	10.950	35.925	90.960	90.968	0.146	1.250	0.160	78.100
220	11.000	36.089	73.880	73.886	0.135	1.000	0.183	0.000
221	11.050	36.253	62.080	62.088	0.254	1.240	0.409	0.000
222	11.100	36.417	57.080	57.089	0.360	1.420	0.631	0.000
223	11.150	36.581	63.380	63.393	0.300	2.140	0.473	0.000
224	11.200	36.745	98.770	98.785	0.068	2.330	0.069	0.000
225	11.250	36.909	96.140	96.156	0.178	2.590	0.185	0.000
226	11.300	37.073	81.620	81.635	0.197	2.430	0.241	0.000
227	11.350	37.237	69.410	69.422	0.217	1.990	0.313	0.000
228	11.400	37.401	58.710	58.724	0.198	2.180	0.337	0.000
229	11.450	37.565	50.590	50.602	0.176	1.900	0.348	0.000
230	11.500	37.729	67.200	67.211	0.138	1.690	0.205	0.000
231	11.550	37.893	62.720	62.728	0.251	1.220	0.400	0.000
232	11.600	38.057	41.050	41.056	0.581	0.940	1.415	0.000
233	11.650	38.221	100.580	100.589	0.982	1.390	0.976	0.000
234	11.700	38.385	105.860	105.871	1.787	1.750	1.688	0.000
235	11.750	38.549	245.400	245.422	0.000	3.510	0.000	0.000
236	11.800	38.713	318.460	318.508	0.000	7.630	0.000	0.000

ConeTec CPT Interpretations	
Interpretation Output - SCREENzW Version 1.24 - Jun 19 2013	
DAS Version: W47	
Interpretation Format:	Basic Parameters at Every Point (BSC)
Run ID:	1397221672
Job No:	13-53075
Client:	Feezor Engineering
Project:	Bridgeton Landfill
Facility:	Bridgeton Landfill
Sounding ID:	GCPT-119
Cone ID:	268:T1500F15U500
Operator:	DC/JT/YB
CPT Date:	Nov-15-2013
CPT Time:	16:05
CPT File:	13-53075_GP119.COR
Tip Units:	tsf
Sleeve Units:	tsf
PP Units:	ft
Tip Conversion to bar:	0.9580
Sleeve Conversion to bar:	0.9580
PP Conversion to meters:	0.3050
Col 5 (Extra Module) Parameter	Gamma
Col 5 (Extra Module) Units	cps
Coord Source:	
Coord Type:	
UTM Zone:	N/A
Easting / Long:	722149.019
Northing / Lat:	4294300.164
Elevation:	145.757
Tip Net Area Ratio:	0.80
Averaging Interval:	Every Point

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
1	0.050	0.164	4.710	4.717	0.002	1.180	0.042	27.800
2	0.100	0.328	13.620	13.624	0.015	0.600	0.110	31.500
3	0.150	0.492	27.960	27.965	0.068	0.830	0.243	35.200
4	0.200	0.656	35.470	35.476	0.090	0.970	0.254	44.400
5	0.250	0.820	37.720	37.729	0.115	1.430	0.305	51.700
6	0.300	0.984	43.300	43.300	0.252	0.010	0.582	61.500
7	0.350	1.148	57.960	57.973	0.434	2.130	0.749	75.100
8	0.400	1.312	42.340	42.361	0.640	3.440	1.511	87.500
9	0.450	1.476	26.490	26.519	0.842	4.620	3.175	91.400
10	0.500	1.640	23.350	23.374	0.814	3.890	3.482	92.800
11	0.550	1.804	26.500	26.515	0.826	2.390	3.115	85.400
12	0.600	1.968	30.020	30.023	0.816	0.520	2.718	90.000
13	0.650	2.133	43.970	43.978	2.513	1.340	5.714	83.500
14	0.700	2.297	69.670	69.679	2.101	1.410	3.015	75.200
15	0.750	2.461	366.380	366.382	3.639	0.360	0.993	81.700
16	0.800	2.625	356.800	356.822	4.050	3.490	1.135	71.200
17	0.850	2.789	93.860	93.927	5.311	10.660	5.654	67.000
18	0.900	2.953	116.520	116.570	3.655	8.010	3.135	60.900
19	0.950	3.117	126.810	126.857	4.454	7.560	3.511	71.100

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
20	1.000	3.281	145.110	145.159	3.016	7.890	2.078	54.400
21	1.050	3.445	310.710	310.767	3.505	9.130	1.128	60.800
22	1.100	3.609	162.100	162.159	3.718	9.480	2.293	45.600
23	1.150	3.773	177.210	177.265	3.600	8.830	2.031	46.000
24	1.200	3.937	101.340	101.379	0.978	6.320	0.965	58.000
25	1.250	4.101	80.560	80.605	1.302	7.280	1.615	57.500
26	1.300	4.265	82.900	82.946	1.289	7.290	1.554	49.900
27	1.350	4.429	66.140	66.176	1.578	5.820	2.385	75.800
28	1.400	4.593	47.050	47.087	1.553	5.980	3.298	66.900
29	1.450	4.757	25.090	25.135	1.246	7.230	4.957	75.100
30	1.500	4.921	17.700	17.743	0.748	6.860	4.216	81.400
31	1.550	5.085	16.250	16.302	0.576	8.350	3.533	78.200
32	1.600	5.249	28.520	28.612	0.555	14.740	1.940	66.000
33	1.650	5.413	22.970	23.022	0.544	8.400	2.363	86.200
34	1.700	5.577	19.970	20.019	0.534	7.830	2.667	81.600
35	1.750	5.741	17.920	17.968	0.494	7.700	2.749	82.400
36	1.800	5.905	16.370	16.417	0.430	7.540	2.619	85.500
37	1.850	6.069	27.660	27.712	0.434	8.290	1.566	94.000
38	1.900	6.234	35.760	35.809	0.609	7.860	1.701	84.500
39	1.950	6.398	39.950	39.998	0.815	7.630	2.038	82.800
40	2.000	6.562	46.520	46.566	0.973	7.370	2.090	93.200
41	2.050	6.726	24.830	24.873	0.946	6.950	3.803	91.600
42	2.100	6.890	20.020	20.064	0.760	6.980	3.788	78.500
43	2.150	7.054	19.300	19.346	0.893	7.360	4.616	67.700
44	2.200	7.218	17.480	17.527	0.546	7.550	3.115	59.400
45	2.250	7.382	33.840	33.874	0.490	5.480	1.447	67.100
46	2.300	7.546	45.100	45.134	1.116	5.470	2.473	68.800
47	2.350	7.710	32.230	32.264	0.969	5.500	3.003	67.900
48	2.400	7.874	20.020	20.068	0.811	7.620	4.041	67.200
49	2.450	8.038	13.000	13.047	0.487	7.530	3.733	94.900
50	2.500	8.202	13.720	13.772	0.404	8.300	2.934	80.700
51	2.550	8.366	22.590	22.646	0.449	8.970	1.983	92.400
52	2.600	8.530	31.630	31.687	0.484	9.100	1.527	92.100
53	2.650	8.694	32.490	32.542	0.482	8.400	1.481	96.800
54	2.700	8.858	29.480	29.528	0.451	7.630	1.527	86.800
55	2.750	9.022	28.540	28.584	0.415	7.100	1.452	67.400
56	2.800	9.186	32.300	32.340	0.479	6.360	1.481	80.700
57	2.850	9.350	27.890	27.925	0.526	5.560	1.884	66.700
58	2.900	9.514	21.440	21.471	0.512	5.040	2.385	50.300
59	2.950	9.678	16.680	16.710	0.593	4.740	3.549	44.800
60	3.000	9.842	37.410	37.427	0.434	2.770	1.160	38.600
61	3.050	10.006	50.650	50.674	0.788	3.910	1.555	53.800
62	3.100	10.170	77.270	77.302	1.266	5.180	1.638	32.800
63	3.150	10.335	49.760	49.817	1.167	9.120	2.343	45.400
64	3.200	10.499	28.170	28.226	0.825	8.910	2.923	45.100
65	3.250	10.663	26.350	26.405	0.541	8.740	2.049	57.300
66	3.300	10.827	15.320	15.366	0.269	7.350	1.751	43.800
67	3.350	10.991	11.220	11.261	0.221	6.610	1.962	37.300
68	3.400	11.155	8.280	8.319	0.172	6.220	2.068	36.900
69	3.450	11.319	23.380	23.416	0.631	5.830	2.695	29.400
70	3.500	11.483	76.870	76.905	0.972	5.650	1.264	27.500
71	3.550	11.647	31.680	31.743	1.054	10.040	3.320	28.900
72	3.600	11.811	23.350	23.489	0.986	22.230	4.198	22.300
73	3.650	11.975	24.990	25.087	0.899	15.510	3.584	25.900
74	3.700	12.139	22.200	22.251	0.862	8.150	3.874	29.800

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
75	3.750	12.303	21.570	21.622	0.807	8.320	3.732	40.800
76	3.800	12.467	8.060	8.094	0.601	5.370	7.426	60.100
77	3.850	12.631	7.380	7.453	0.400	11.700	5.367	58.100
78	3.900	12.795	25.710	25.823	0.410	18.120	1.588	63.800
79	3.950	12.959	26.210	26.286	0.381	12.100	1.449	29.000
80	4.000	13.123	38.370	38.417	0.513	7.550	1.335	27.500
81	4.050	13.287	25.200	25.251	0.610	8.170	2.416	24.800
82	4.100	13.451	16.310	16.345	0.815	5.680	4.986	27.200
83	4.150	13.615	21.850	21.890	0.689	6.360	3.148	16.800
84	4.200	13.779	29.190	29.238	0.933	7.710	3.191	16.400
85	4.250	13.943	40.310	40.336	1.078	4.140	2.673	11.600
86	4.300	14.107	71.110	71.137	1.479	4.270	2.079	7.400
87	4.350	14.271	51.720	51.747	1.852	4.330	3.579	10.900
88	4.400	14.436	30.160	30.187	1.356	4.310	4.492	14.300
89	4.450	14.600	43.530	43.561	1.034	4.950	2.374	13.300
90	4.500	14.764	50.140	50.168	0.725	4.510	1.445	13.300
91	4.550	14.928	30.960	30.986	0.700	4.230	2.259	16.100
92	4.600	15.092	25.410	25.469	0.739	9.420	2.902	16.500
93	4.650	15.256	22.590	22.645	0.678	8.780	2.994	22.900
94	4.700	15.420	19.400	19.470	0.282	11.150	1.448	30.800
95	4.750	15.584	11.690	11.764	0.219	11.920	1.862	18.600
96	4.800	15.748	3.210	3.261	0.261	8.180	8.004	32.000
97	4.850	15.912	25.700	25.755	0.562	8.750	2.182	44.400
98	4.900	16.076	45.170	45.227	0.736	9.060	1.627	62.000
99	4.950	16.240	66.510	66.554	0.972	7.110	1.460	78.900
100	5.000	16.404	48.690	48.726	1.121	5.710	2.301	76.100
101	5.050	16.568	39.720	39.751	1.106	4.960	2.782	85.000
102	5.100	16.732	36.390	36.424	1.120	5.510	3.075	76.700
103	5.150	16.896	41.060	41.110	1.133	7.940	2.756	97.200
104	5.200	17.060	40.420	40.466	1.238	7.320	3.059	75.600
105	5.250	17.224	31.350	31.391	1.313	6.630	4.183	80.100
106	5.300	17.388	22.170	22.204	1.361	5.520	6.129	60.200
107	5.350	17.552	18.230	18.257	0.799	4.270	4.376	37.500
108	5.400	17.716	31.390	31.416	0.820	4.120	2.610	41.300
109	5.450	17.880	68.720	68.745	0.699	3.940	1.017	35.100
110	5.500	18.044	46.850	46.882	0.749	5.130	1.598	28.300
111	5.550	18.208	40.950	40.978	0.604	4.440	1.474	30.800
112	5.600	18.372	44.840	44.866	1.937	4.090	4.317	26.200
113	5.650	18.537	64.960	64.985	2.456	4.040	3.779	43.000
114	5.700	18.701	120.830	120.855	2.472	4.050	2.045	44.400
115	5.750	18.865	38.460	38.489	1.696	4.640	4.406	28.000
116	5.800	19.029	66.900	66.948	3.165	7.680	4.728	38.300
117	5.850	19.193	130.500	130.547	2.392	7.490	1.832	41.600
118	5.900	19.357	112.780	112.823	2.817	6.860	2.497	49.500
119	5.950	19.521	56.050	56.098	2.313	7.620	4.123	57.800
120	6.000	19.685	25.200	25.246	1.728	7.340	6.845	68.300
121	6.050	19.849	24.440	24.499	0.919	9.440	3.751	76.400
122	6.100	20.013	26.040	26.101	0.715	9.720	2.739	83.600
123	6.150	20.177	25.180	25.237	0.708	9.100	2.805	89.000
124	6.200	20.341	22.240	22.293	0.684	8.420	3.068	81.000
125	6.250	20.505	18.160	18.211	0.471	8.200	2.586	70.800
126	6.300	20.669	15.090	15.139	0.408	7.870	2.695	87.400
127	6.350	20.833	14.910	14.960	0.397	8.080	2.654	79.000
128	6.400	20.997	13.310	13.357	0.447	7.450	3.347	59.600
129	6.450	21.161	13.530	13.577	0.594	7.600	4.375	50.600

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
130	6.500	21.325	35.050	35.103	0.701	8.530	1.997	31.600
131	6.550	21.489	30.510	30.568	1.092	9.240	3.572	37.000
132	6.600	21.653	37.070	37.150	1.347	12.850	3.626	34.400
133	6.650	21.817	63.180	63.267	1.233	13.950	1.949	26.900
134	6.700	21.981	49.030	49.114	1.142	13.520	2.325	32.000
135	6.750	22.145	8.300	8.361	0.443	9.830	5.298	31.500
136	6.800	22.309	22.730	22.784	0.259	8.610	1.137	40.000
137	6.850	22.473	50.920	50.967	0.236	7.540	0.463	62.300
138	6.900	22.638	26.240	26.292	0.373	8.290	1.419	60.400
139	6.950	22.802	16.480	16.536	0.538	8.920	3.254	68.600
140	7.000	22.966	23.110	23.164	0.537	8.600	2.318	62.800
141	7.050	23.130	18.020	18.077	0.576	9.210	3.186	85.600
142	7.100	23.294	38.000	38.082	0.730	13.120	1.917	71.300
143	7.150	23.458	62.440	62.513	0.932	11.760	1.491	72.100
144	7.200	23.622	69.710	69.782	1.258	11.600	1.803	68.900
145	7.250	23.786	70.920	70.989	1.273	11.040	1.793	75.900
146	7.300	23.950	72.580	72.644	1.187	10.210	1.634	83.500
147	7.350	24.114	71.090	71.147	1.136	9.170	1.597	72.800
148	7.400	24.278	62.950	63.003	1.059	8.540	1.681	60.600
149	7.450	24.442	46.300	46.346	1.376	7.390	2.969	59.700
150	7.500	24.606	46.260	46.303	1.198	6.850	2.587	48.200
151	7.550	24.770	50.140	50.185	1.277	7.190	2.545	49.100
152	7.600	24.934	61.140	61.191	1.643	8.120	2.685	32.600
153	7.650	25.098	49.890	49.942	1.133	8.360	2.269	27.400
154	7.700	25.262	91.520	91.573	1.453	8.470	1.587	23.900
155	7.750	25.426	140.260	140.302	1.622	6.750	1.156	22.000
156	7.800	25.590	168.280	168.302	1.714	3.530	1.018	26.100
157	7.850	25.754	92.830	92.853	1.738	3.760	1.872	33.000
158	7.900	25.918	34.060	34.095	1.658	5.670	4.863	26.800
159	7.950	26.082	19.470	19.507	0.704	6.000	3.609	32.200
160	8.000	26.246	29.120	29.171	0.487	8.160	1.669	27.400
161	8.050	26.410	39.980	40.019	0.500	6.320	1.249	30.800
162	8.100	26.574	57.170	57.196	0.626	4.090	1.094	40.600
163	8.150	26.739	57.940	57.977	0.743	5.900	1.282	42.300
164	8.200	26.903	30.180	30.210	0.793	4.760	2.625	54.800
165	8.250	27.067	20.460	20.480	0.875	3.140	4.273	56.300
166	8.300	27.231	22.840	22.859	0.654	3.030	2.861	74.100
167	8.350	27.395	20.330	20.356	0.462	4.120	2.270	74.000
168	8.400	27.559	14.620	14.662	0.405	6.750	2.762	68.900
169	8.450	27.723	18.110	18.153	0.330	6.920	1.818	73.900
170	8.500	27.887	18.030	18.076	0.325	7.380	1.798	59.800
171	8.550	28.051	21.480	21.526	0.388	7.380	1.802	64.900
172	8.600	28.215	27.350	27.397	0.512	7.580	1.869	46.600
173	8.650	28.379	34.200	34.252	0.706	8.310	2.061	50.100
174	8.700	28.543	31.810	31.863	1.022	8.490	3.207	58.300
175	8.750	28.707	34.410	34.464	1.053	8.680	3.055	60.500
176	8.800	28.871	31.730	31.784	1.093	8.660	3.439	68.200
177	8.850	29.035	34.190	34.243	1.137	8.480	3.320	69.100
178	8.900	29.199	48.770	48.819	1.437	7.830	2.944	61.500
179	8.950	29.363	55.310	55.360	1.497	8.070	2.704	72.500
180	9.000	29.527	61.920	61.972	1.587	8.360	2.561	58.600
181	9.050	29.691	46.620	46.667	1.253	7.470	2.685	38.200
182	9.100	29.855	42.150	42.191	0.916	6.580	2.171	40.800
183	9.150	30.019	40.880	40.917	0.972	5.940	2.376	29.300
184	9.200	30.183	32.770	32.796	1.118	4.090	3.409	27.300

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
185	9.250	30.347	31.870	31.897	1.045	4.390	3.276	31.800
186	9.300	30.511	36.550	36.575	1.124	4.020	3.073	36.700
187	9.350	30.675	38.450	38.476	1.075	4.090	2.794	37.200
188	9.400	30.840	30.340	30.389	0.953	7.890	3.136	36.200
189	9.450	31.004	26.960	27.005	1.076	7.210	3.984	40.000
190	9.500	31.168	25.990	26.036	0.646	7.300	2.481	38.500
191	9.550	31.332	40.050	40.099	1.032	7.810	2.574	38.500
192	9.600	31.496	43.510	43.545	0.958	5.540	2.200	30.600
193	9.650	31.660	51.160	51.192	0.999	5.110	1.951	22.900
194	9.700	31.824	50.950	50.973	0.963	3.620	1.889	21.100
195	9.750	31.988	37.590	37.610	0.960	3.180	2.553	24.300
196	9.800	32.152	22.550	22.574	0.809	3.900	3.584	20.200
197	9.850	32.316	47.670	47.696	0.915	4.090	1.918	16.500
198	9.900	32.480	73.250	73.275	1.258	4.070	1.717	21.700
199	9.950	32.644	49.780	49.822	1.333	6.780	2.676	31.200
200	10.000	32.808	40.680	40.731	1.247	8.120	3.062	27.900
201	10.050	32.972	80.540	80.585	1.485	7.220	1.843	26.200
202	10.100	33.136	60.160	60.206	1.893	7.420	3.144	36.600
203	10.150	33.300	50.580	50.631	1.989	8.190	3.928	42.300
204	10.200	33.464	34.110	34.171	1.303	9.830	3.813	66.500
205	10.250	33.628	24.740	24.803	0.899	10.080	3.625	67.500
206	10.300	33.792	22.220	22.289	0.607	11.020	2.723	63.500
207	10.350	33.956	21.960	22.033	0.757	11.770	3.436	76.000
208	10.400	34.120	29.810	29.887	0.837	12.340	2.801	59.100
209	10.450	34.284	18.980	19.056	0.923	12.240	4.844	52.000
210	10.500	34.448	17.710	17.787	0.757	12.350	4.256	43.700
211	10.550	34.612	37.310	37.384	0.956	11.890	2.557	26.800
212	10.600	34.776	97.870	97.930	1.389	9.660	1.418	21.500
213	10.650	34.941	46.940	47.006	1.360	10.630	2.893	26.600
214	10.700	35.105	42.400	42.461	1.479	9.710	3.483	33.800
215	10.750	35.269	64.600	64.655	1.229	8.760	1.901	35.700
216	10.800	35.433	26.710	26.763	1.307	8.540	4.884	41.500
217	10.850	35.597	20.080	20.139	0.868	9.510	4.310	54.300
218	10.900	35.761	25.980	26.043	0.821	10.120	3.152	66.300
219	10.950	35.925	66.840	66.902	0.764	9.880	1.142	64.600
220	11.000	36.089	47.150	47.208	1.380	9.260	2.923	65.600
221	11.050	36.253	56.760	56.809	1.498	7.780	2.637	52.600
222	11.100	36.417	41.370	41.432	1.749	9.980	4.221	53.100
223	11.150	36.581	41.060	41.126	1.281	10.540	3.115	49.700
224	11.200	36.745	60.550	60.622	2.381	11.580	3.928	36.000
225	11.250	36.909	77.920	77.995	2.218	12.030	2.844	41.700
226	11.300	37.073	46.580	46.656	2.245	12.200	4.812	32.800
227	11.350	37.237	37.040	37.109	1.310	11.090	3.530	37.300
228	11.400	37.401	47.460	47.513	1.777	8.560	3.740	34.800
229	11.450	37.565	72.260	72.334	1.731	11.840	2.393	26.800
230	11.500	37.729	76.300	76.375	1.349	12.010	1.766	22.100
231	11.550	37.893	63.780	63.854	1.440	11.920	2.255	15.300
232	11.600	38.057	72.630	72.672	1.437	6.710	1.977	17.900
233	11.650	38.221	43.210	43.265	1.407	8.780	3.252	20.500
234	11.700	38.385	30.300	30.362	1.697	10.010	5.589	22.400
235	11.750	38.549	46.450	46.529	1.203	12.710	2.585	28.300
236	11.800	38.713	107.100	107.192	1.210	14.800	1.129	42.300
237	11.850	38.877	83.480	83.570	1.297	14.360	1.552	72.400
238	11.900	39.042	42.230	42.321	1.118	14.650	2.642	84.700
239	11.950	39.206	20.560	20.655	0.911	15.280	4.410	75.700

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
240	12.000	39.370	16.720	16.823	0.821	16.510	4.880	93.300
241	12.050	39.534	15.480	15.594	0.687	18.270	4.406	98.900
242	12.100	39.698	14.880	14.999	0.710	19.090	4.734	100.200
243	12.150	39.862	25.020	25.141	0.637	19.350	2.534	81.500
244	12.200	40.026	16.770	16.890	0.652	19.290	3.860	101.900
245	12.250	40.190	19.570	19.692	0.768	19.490	3.900	78.100
246	12.300	40.354	18.150	18.273	0.804	19.720	4.400	73.300
247	12.350	40.518	41.230	41.357	0.976	20.330	2.360	58.800
248	12.400	40.682	75.560	75.698	1.408	22.150	1.860	51.200
249	12.450	40.846	69.140	69.276	1.530	21.760	2.209	64.400
250	12.500	41.010	45.090	45.221	1.105	20.950	2.444	66.000
251	12.550	41.174	27.730	27.856	0.735	20.110	2.639	40.800
252	12.600	41.338	9.220	9.308	0.668	14.150	7.176	39.900
253	12.650	41.502	25.420	25.503	0.643	13.320	2.521	38.200
254	12.700	41.666	31.970	32.041	1.110	11.410	3.464	32.500
255	12.750	41.830	63.160	63.228	1.445	10.870	2.285	36.900
256	12.800	41.994	89.230	89.314	2.052	13.390	2.298	41.100
257	12.850	42.158	83.220	83.309	2.326	14.240	2.792	40.800
258	12.900	42.322	37.690	37.782	2.102	14.670	5.564	64.700
259	12.950	42.486	31.320	31.439	1.406	19.090	4.472	49.500
260	13.000	42.650	53.180	53.309	1.254	20.680	2.352	48.500
261	13.050	42.814	60.450	60.574	1.541	19.910	2.544	34.700
262	13.100	42.978	64.960	65.072	2.121	17.870	3.259	23.600
263	13.150	43.143	57.300	57.413	1.835	18.050	3.196	19.700
264	13.200	43.307	64.160	64.278	1.929	18.970	3.001	16.800
265	13.250	43.471	53.880	53.991	1.486	17.860	2.752	17.600
266	13.300	43.635	40.200	40.312	1.581	17.960	3.922	14.600
267	13.350	43.799	77.450	77.563	1.958	18.150	2.524	16.300
268	13.400	43.963	53.610	53.722	2.246	17.970	4.181	19.400
269	13.450	44.127	57.760	57.889	2.161	20.650	3.733	21.700
270	13.500	44.291	68.910	69.039	2.390	20.670	3.462	36.000
271	13.550	44.455	106.380	106.512	2.410	21.140	2.263	34.000
272	13.600	44.619	64.450	64.577	2.241	20.290	3.470	51.900
273	13.650	44.783	47.350	47.472	1.500	19.600	3.160	78.900
274	13.700	44.947	30.280	30.399	2.126	19.010	6.994	101.200
275	13.750	45.111	38.660	38.774	2.021	18.200	5.212	159.400
276	13.800	45.275	173.120	173.235	0.948	18.360	0.547	202.700
277	13.850	45.439	255.230	255.347	1.797	18.820	0.704	226.900
278	13.900	45.603	305.700	305.821	3.257	19.310	1.065	243.600
279	13.950	45.767	259.670	259.782	2.288	18.000	0.881	231.300
280	14.000	45.931	176.730	176.842	3.252	18.020	1.839	161.700
281	14.050	46.095	134.770	134.877	3.694	17.090	2.739	128.400
282	14.100	46.259	90.630	90.737	3.867	17.070	4.262	92.800
283	14.150	46.423	65.130	65.264	4.088	21.440	6.264	59.900
284	14.200	46.587	64.210	64.355	3.512	23.290	5.457	54.400
285	14.250	46.751	64.350	64.504	2.634	24.660	4.083	40.600
286	14.300	46.915	72.070	72.217	2.183	23.490	3.023	26.400
287	14.350	47.079	66.150	66.279	2.022	20.670	3.051	18.100
288	14.400	47.244	46.240	46.371	2.445	21.020	5.273	22.100
289	14.450	47.408	41.710	41.875	2.271	26.390	5.423	0.000
290	14.500	47.572	126.650	126.826	1.226	28.250	0.967	0.000
291	14.550	47.736	210.630	210.804	2.509	27.880	1.190	0.000
292	14.600	47.900	121.900	122.023	3.106	19.740	2.545	0.000
293	14.650	48.064	135.920	136.041	4.297	19.320	3.159	0.000
294	14.700	48.228	184.720	184.833	2.990	18.180	1.618	0.000

Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
	m	ft	tsf	tsf	tsf	ft	%	cps
295	14.750	48.392	150.400	150.517	2.384	18.770	1.584	0.000
296	14.800	48.556	53.840	53.941	1.502	16.250	2.785	0.000
297	14.850	48.720	34.700	34.773	1.131	11.700	3.253	0.000
298	14.900	48.884	26.410	26.483	1.059	11.760	3.999	0.000
299	14.950	49.048	21.380	21.463	0.753	13.370	3.508	0.000
300	15.000	49.212	59.100	59.183	1.033	13.230	1.745	0.000
301	15.050	49.376	156.750	156.835	1.700	13.580	1.084	0.000
302	15.100	49.540	276.780	276.871	2.752	14.520	0.994	0.000
303	15.150	49.704	295.880	295.974	0.000	15.040	0.000	0.000
304	15.200	49.868	343.110	343.204	0.000	15.100	0.000	0.000

Appendix A-2:

Phase 1A/1B Pore Water Dissipation Test Data from ConeTec

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1-1A.PPD
Job Number:	13-53075
Sounding ID:	GCPT-1-1A
Location:	Bridgeton Landfill
Sounding Date:	25-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 274
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	67
Longest Trace - Depth (m):	12.100
Longest Trace - Depth (ft):	39.698
Longest Trace - Duration (s):	330.0
Longest Trace - Duration (min):	5.50
Longest Trace - Duration (hrs):	0.092
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 67 / 12.100 / 39.698
0.0	0.00		11.15
5.0	0.08		9.00
10.0	0.17		9.06
15.0	0.25		9.14
20.0	0.33		8.74
25.0	0.42		8.45
30.0	0.50		8.28
35.0	0.58		8.14
40.0	0.67		7.58
45.0	0.75		7.19
50.0	0.83		6.88
55.0	0.92		6.63
60.0	1.00		6.15
65.0	1.08		5.96
70.0	1.17		5.59
75.0	1.25		5.23
80.0	1.33		4.98
85.0	1.42		4.71
90.0	1.50		4.47
95.0	1.58		4.15
100.0	1.67		3.92
105.0	1.75		3.63
110.0	1.83		3.34
115.0	1.92		3.04
120.0	2.00		2.98
125.0	2.08		2.79
130.0	2.17		2.63

Time (s)	Time (min)	Trace No.	1
		Trace Points	67
		Depth (m)	12.100
		Depth (ft)	39.698
135.0	2.25		2.38
140.0	2.33		2.13
145.0	2.42		1.91
150.0	2.50		1.81
155.0	2.58		1.72
160.0	2.67		1.48
165.0	2.75		1.36
170.0	2.83		1.29
175.0	2.92		1.04
180.0	3.00		1.06
185.0	3.08		0.99
190.0	3.17		0.78
195.0	3.25		0.59
200.0	3.33		0.60
205.0	3.42		0.43
210.0	3.50		0.33
215.0	3.58		0.29
220.0	3.67		0.11
225.0	3.75		0.12
230.0	3.83		0.01
235.0	3.92		-0.08
240.0	4.00		-0.13
245.0	4.08		-0.27
250.0	4.17		-0.25
255.0	4.25		-0.31
260.0	4.33		-0.55
265.0	4.42		-0.51
270.0	4.50		-0.65
275.0	4.58		-0.67
280.0	4.67		-0.69
285.0	4.75		-0.61
290.0	4.83		-0.76
295.0	4.92		-0.85
300.0	5.00		-0.75
305.0	5.08		-0.95
310.0	5.17		-0.95
315.0	5.25		-0.99
320.0	5.33		-1.07
325.0	5.42		-1.00
330.0	5.50		-0.99

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1-2		
Location:	Bridgeton Landfill		
Sounding Date:	25-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	66
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	73		
Longest Trace - Depth (m):	9.150		
Longest Trace - Depth (ft):	30.019		
Longest Trace - Duration (s):	360.0		
Longest Trace - Duration (min):	6.00		
Longest Trace - Duration (hrs):	0.100		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.400 / 20.997	2 / 73 / 9.150 / 30.019	3 / 62 / 9.600 / 31.496
0.0	0.00		23.01	14.67	20.24
5.0	0.08		46.69	17.94	20.30
10.0	0.17		55.73	22.34	19.58
15.0	0.25		59.04	25.43	18.85
20.0	0.33		60.51	28.38	18.43
25.0	0.42		61.10	30.48	17.93
30.0	0.50		61.49	32.15	17.58
35.0	0.58		61.56	33.26	17.26
40.0	0.67		61.38	33.87	17.40
45.0	0.75		61.18	34.18	17.22
50.0	0.83		60.54	34.42	16.98
55.0	0.92		59.75	34.51	16.61
60.0	1.00		59.17	34.53	16.26
65.0	1.08		58.36	32.27	16.12
70.0	1.17		57.53	33.15	15.97
75.0	1.25		56.60	33.45	15.68
80.0	1.33		55.62	33.29	15.60
85.0	1.42		54.60	33.23	15.48
90.0	1.50		53.64	33.05	15.41
95.0	1.58		52.66	32.75	15.41
100.0	1.67		51.69	32.43	15.17
105.0	1.75		50.88	32.46	15.16
110.0	1.83		49.84	31.99	15.03
115.0	1.92		48.97	31.97	14.97
120.0	2.00		48.22	31.61	14.93
125.0	2.08		47.20	31.46	14.85
130.0	2.17		46.35	31.32	14.76

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	61	73	62
		Depth (m)	6.400	9.150	9.600
		Depth (ft)	20.997	30.019	31.496
135.0	2.25		45.72	30.89	14.75
140.0	2.33		44.98	30.64	14.82
145.0	2.42		44.23	30.37	14.78
150.0	2.50		43.52	30.23	14.61
155.0	2.58		42.79	29.98	14.60
160.0	2.67		42.29	29.87	14.64
165.0	2.75		41.51	29.69	14.61
170.0	2.83		41.05	29.54	14.61
175.0	2.92		40.34	29.16	14.48
180.0	3.00		39.90	28.94	14.52
185.0	3.08		39.32	28.78	14.50
190.0	3.17		38.74	28.42	14.46
195.0	3.25		38.18	28.36	14.37
200.0	3.33		37.81	28.24	14.48
205.0	3.42		37.34	27.89	14.48
210.0	3.50		36.90	27.83	14.39
215.0	3.58		36.36	27.65	14.42
220.0	3.67		36.15	27.41	14.53
225.0	3.75		35.70	27.44	14.48
230.0	3.83		35.33	27.12	14.48
235.0	3.92		36.54	26.90	14.45
240.0	4.00		36.23	26.90	14.41
245.0	4.08		35.79	26.63	14.54
250.0	4.17		35.21	26.29	14.46
255.0	4.25		34.72	26.48	14.53
260.0	4.33		34.35	26.00	14.47
265.0	4.42		33.90	26.09	14.51
270.0	4.50		33.47	25.68	14.51
275.0	4.58		33.14	25.59	14.55
280.0	4.67		32.76	25.31	14.62
285.0	4.75		32.42	25.17	14.65
290.0	4.83		32.11	24.98	14.60
295.0	4.92		31.81	24.87	14.69
300.0	5.00		31.31	24.68	14.67
305.0	5.08			24.75	14.73
310.0	5.17			24.49	
315.0	5.25			24.16	
320.0	5.33			24.07	
325.0	5.42			23.92	
330.0	5.50			23.93	
335.0	5.58			23.63	
340.0	5.67			23.41	
345.0	5.75			23.39	
350.0	5.83			23.14	
355.0	5.92			23.00	
360.0	6.00			22.95	

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP2-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-2-1		
Location:	Bridgeton Landfill		
Sounding Date:	24-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	178
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	15.500		
Longest Trace - Depth (ft):	50.852		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.100 / 20.013	2 / 61 / 15.500 / 50.852
0.0	0.00		10.43	8.68
5.0	0.08		9.61	8.54
10.0	0.17		9.18	8.47
15.0	0.25		8.72	8.33
20.0	0.33		8.40	8.36
25.0	0.42		8.15	8.20
30.0	0.50		7.85	8.22
35.0	0.58		7.44	8.12
40.0	0.67		7.23	8.14
45.0	0.75		7.07	8.02
50.0	0.83		6.94	8.04
55.0	0.92		6.63	7.90
60.0	1.00		6.49	7.80
65.0	1.08		6.32	7.85
70.0	1.17		6.05	7.77
75.0	1.25		5.97	7.76
80.0	1.33		5.88	7.68
85.0	1.42		5.70	7.60
90.0	1.50		5.52	7.57
95.0	1.58		5.45	7.51
100.0	1.67		5.39	7.46
105.0	1.75		5.24	7.38
110.0	1.83		5.03	7.39
115.0	1.92		4.99	7.30
120.0	2.00		4.86	7.30
125.0	2.08		4.80	7.30
130.0	2.17		4.57	7.27

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.100	15.500
		Depth (ft)	20.013	50.852
135.0	2.25		4.59	7.17
140.0	2.33		4.47	7.14
145.0	2.42		4.21	7.05
150.0	2.50		4.35	6.98
155.0	2.58		4.28	7.00
160.0	2.67		4.07	6.90
165.0	2.75		4.00	7.00
170.0	2.83		3.96	7.00
175.0	2.92		3.80	6.88
180.0	3.00		3.76	6.84
185.0	3.08		3.83	6.87
190.0	3.17		3.81	6.83
195.0	3.25		3.64	6.89
200.0	3.33		3.56	6.79
205.0	3.42		3.68	6.76
210.0	3.50		3.51	6.75
215.0	3.58		3.43	6.68
220.0	3.67		3.36	6.72
225.0	3.75		3.39	6.67
230.0	3.83		3.22	6.57
235.0	3.92		3.21	6.66
240.0	4.00		3.26	6.63
245.0	4.08		3.23	6.64
250.0	4.17		3.04	6.65
255.0	4.25		3.14	6.75
260.0	4.33		3.10	6.55
265.0	4.42		3.01	6.52
270.0	4.50		3.00	6.60
275.0	4.58		2.80	6.51
280.0	4.67		2.86	6.42
285.0	4.75		2.87	6.57
290.0	4.83		2.86	6.42
295.0	4.92		2.72	6.42
300.0	5.00		2.58	6.45

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP2-2B.PPD
Job Number:	13-53075
Sounding ID:	GCPT-2-2B
Location:	Bridgeton Landfill
Sounding Date:	24-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 24
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	8.850
Longest Trace - Depth (ft):	29.035
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 8.850 / 29.035
0.0	0.00		19.53
5.0	0.08		12.46
10.0	0.17		12.83
15.0	0.25		13.24
20.0	0.33		13.46
25.0	0.42		13.67
30.0	0.50		13.81
35.0	0.58		14.12
40.0	0.67		14.20
45.0	0.75		14.43
50.0	0.83		14.58
55.0	0.92		14.68
60.0	1.00		14.72
65.0	1.08		14.95
70.0	1.17		14.96
75.0	1.25		14.97
80.0	1.33		15.03
85.0	1.42		15.10
90.0	1.50		15.14
95.0	1.58		15.14
100.0	1.67		15.11
105.0	1.75		15.16
110.0	1.83		15.11
115.0	1.92		15.17
120.0	2.00		15.11
125.0	2.08		15.16
130.0	2.17		15.11

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	8.850
		Depth (ft)	29.035
135.0	2.25		15.18
140.0	2.33		15.18
145.0	2.42		15.15
150.0	2.50		15.20
155.0	2.58		15.30
160.0	2.67		15.22
165.0	2.75		15.27
170.0	2.83		15.26
175.0	2.92		15.25
180.0	3.00		15.25
185.0	3.08		15.33
190.0	3.17		15.26
195.0	3.25		15.21
200.0	3.33		15.14
205.0	3.42		15.28
210.0	3.50		15.23
215.0	3.58		15.21
220.0	3.67		15.16
225.0	3.75		15.22
230.0	3.83		15.20
235.0	3.92		15.11
240.0	4.00		15.26
245.0	4.08		15.18
250.0	4.17		15.09
255.0	4.25		15.17
260.0	4.33		15.13
265.0	4.42		15.14
270.0	4.50		15.18
275.0	4.58		15.16
280.0	4.67		15.19
285.0	4.75		15.12
290.0	4.83		15.06
295.0	4.92		15.22
300.0	5.00		15.11

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP2-2C.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-2-2C		
Location:	Bridgeton Landfill		
Sounding Date:	20-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	6	Of	86
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	96		
Longest Trace - Depth (m):	3.050		
Longest Trace - Depth (ft):	10.006		
Longest Trace - Duration (s):	475.0		
Longest Trace - Duration (min):	7.92		
Longest Trace - Duration (hrs):	0.132		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2	3	4	5	6
		Trace Points	96	86	69	55	60	59
		Depth (m)	3.050	9.500	10.400	10.750	11.850	13.700
		Depth (ft)	10.006	31.168	34.120	35.269	38.877	44.947
0.0	0.00		35.53	2.52	10.67	12.26	2.61	12.68
5.0	0.08		32.84	1.73	6.93	7.52	29.93	12.42
10.0	0.17		31.69	1.87	6.48	6.46	33.90	12.32
15.0	0.25		30.54	1.92	6.05	5.89	35.21	9.89
20.0	0.33		29.76	1.85	5.74	5.51	32.74	9.93
25.0	0.42		29.21	1.97	5.41	5.13	32.97	9.85
30.0	0.50		28.62	1.63	5.24	4.82	29.78	9.46
35.0	0.58		28.53	1.72	5.09	4.65	29.64	9.55
40.0	0.67		28.35	1.78	4.80	4.41	29.54	9.51
45.0	0.75		28.30	1.48	4.70	4.20	29.54	9.37
50.0	0.83		27.85	1.50	4.48	3.93	27.42	8.70
55.0	0.92		27.83	1.61	4.34	3.81	27.87	8.95
60.0	1.00		27.35	1.53	4.20	3.71	27.09	8.93
65.0	1.08		27.15	1.52	4.05	3.55	26.90	8.64
70.0	1.17		26.70	1.40	4.04	3.42	25.79	8.39
75.0	1.25		26.51	1.36	3.97	3.37	25.02	8.51
80.0	1.33		26.02	1.24	3.77	3.20	25.29	8.09
85.0	1.42		25.77	1.31	3.76	3.12	24.53	8.08
90.0	1.50		25.50	1.27	3.70	3.09	25.09	7.99
95.0	1.58		25.16	1.27	3.55	2.80	24.09	7.78
100.0	1.67		24.76	1.28	3.40	2.91	22.87	7.75
105.0	1.75		24.52	1.24	3.48	2.77	23.07	7.77
110.0	1.83		24.43	1.13	3.23	2.68	23.13	7.53
115.0	1.92		24.02	1.05	3.16	2.67	22.33	7.45
120.0	2.00		23.94	1.24	3.28	2.62	22.60	7.41
125.0	2.08		23.49	1.06	3.20	2.53	22.61	7.29
130.0	2.17		23.40	1.06	3.23	2.52	22.05	7.25

Time (s)	Time (min)	Trace No.	1	2	3	4	5	6
		Trace Points	96	86	69	55	60	59
		Depth (m)	3.050	9.500	10.400	10.750	11.850	13.700
		Depth (ft)	10.006	31.168	34.120	35.269	38.877	44.947
135.0	2.25		23.19	1.09	3.18	2.41	21.50	7.36
140.0	2.33		22.92	1.19	3.12	2.33	21.61	6.93
145.0	2.42		22.75	1.09	3.03	2.39	21.36	6.88
150.0	2.50		22.69	0.97	2.91	2.26	20.89	7.04
155.0	2.58		22.40	1.04	3.02	2.28	20.84	7.13
160.0	2.67		22.29	1.04	2.90	2.16	20.42	6.80
165.0	2.75		22.00	1.01	2.92	2.12	20.61	6.53
170.0	2.83		21.92	1.07	2.76	2.16	20.55	6.68
175.0	2.92		21.86	0.91	2.83	2.08	20.33	6.44
180.0	3.00		21.66	1.11	2.67	2.02	20.06	6.53
185.0	3.08		21.36	0.95	2.74	2.08	20.11	6.63
190.0	3.17		21.44	1.10	2.73	2.02	19.59	6.38
195.0	3.25		21.20	0.98	2.57	2.04	19.16	6.58
200.0	3.33		21.08	0.99	2.55	1.98	19.47	6.36
205.0	3.42		21.04	0.95	2.48	1.94	19.22	6.23
210.0	3.50		21.07	0.89	2.43	1.92	19.36	6.01
215.0	3.58		20.77	0.97	2.58	1.96	19.22	6.12
220.0	3.67		20.73	0.89	2.45	1.85	19.23	6.06
225.0	3.75		20.71	0.92	2.38	1.92	19.12	6.06
230.0	3.83		20.59	0.92	2.34	1.89	18.70	5.87
235.0	3.92		20.59	0.93	2.45	1.82	18.17	5.69
240.0	4.00		20.47	0.76	2.18	1.72	17.93	5.80
245.0	4.08		20.36	0.88	2.37	1.73	17.96	5.83
250.0	4.17		20.24	0.87	2.38	1.70	18.14	5.78
255.0	4.25		20.09	0.94	2.34	1.76	18.05	5.56
260.0	4.33		20.07	0.86	2.28	1.77	18.15	6.01
265.0	4.42		19.88	0.87	2.29	1.72	17.87	5.70
270.0	4.50		19.92	0.84	2.19	1.67	17.11	5.81
275.0	4.58		19.82	0.94	2.20		17.39	5.86
280.0	4.67		19.97	0.89	2.35		17.38	5.63
285.0	4.75		19.87	0.90	2.12		17.17	5.43
290.0	4.83		19.74	0.93	2.19		17.19	5.70
295.0	4.92		19.63	1.08	2.14		17.21	
300.0	5.00		19.49	1.06	2.03			
305.0	5.08		19.58	0.98	1.99			
310.0	5.17		19.50	0.87	2.08			
315.0	5.25		19.45	0.83	2.02			
320.0	5.33		19.27	0.83	2.11			
325.0	5.42		19.33	0.95	2.10			
330.0	5.50		19.17	0.94	1.97			
335.0	5.58		19.05	0.91	2.08			
340.0	5.67		19.21	0.92	2.05			
345.0	5.75		19.22	0.83				
350.0	5.83		19.05	0.79				
355.0	5.92		19.33	0.99				
360.0	6.00		19.01	0.89				
365.0	6.08		19.02	0.88				
370.0	6.17		18.81	0.88				
375.0	6.25		18.89	0.87				
380.0	6.33		18.88	0.78				
385.0	6.42		18.67	0.84				
390.0	6.50		18.70	0.77				
395.0	6.58		18.54	0.89				

Time (s)	Time (min)	Trace No.	1	2	3	4	5	6
		Trace Points	96	86	69	55	60	59
		Depth (m)	3.050	9.500	10.400	10.750	11.850	13.700
		Depth (ft)	10.006	31.168	34.120	35.269	38.877	44.947
400.0	6.67		18.78	0.83				
405.0	6.75		18.83	0.90				
410.0	6.83		18.54	0.84				
415.0	6.92		18.67	0.70				
420.0	7.00		18.39	0.81				
425.0	7.08		18.51	0.80				
430.0	7.17		18.44					
435.0	7.25		18.50					
440.0	7.33		18.39					
445.0	7.42		18.40					
450.0	7.50		18.34					
455.0	7.58		18.33					
460.0	7.67		18.17					
465.0	7.75		18.33					
470.0	7.83		18.25					
475.0	7.92		18.43					

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP2-3A.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-2-3A		
Location:	Bridgeton Landfill		
Sounding Date:	24-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	74
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	63		
Longest Trace - Depth (m):	11.050		
Longest Trace - Depth (ft):	36.253		
Longest Trace - Duration (s):	310.0		
Longest Trace - Duration (min):	5.17		
Longest Trace - Duration (hrs):	0.086		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.500 / 21.325	2 / 63 / 11.050 / 36.253
0.0	0.00		27.36	19.52
5.0	0.08		6.56	14.45
10.0	0.17		6.06	13.10
15.0	0.25		5.64	11.76
20.0	0.33		5.76	10.90
25.0	0.42		5.55	10.29
30.0	0.50		5.62	9.76
35.0	0.58		5.58	9.16
40.0	0.67		5.53	8.76
45.0	0.75		5.36	8.24
50.0	0.83		5.29	7.85
55.0	0.92		5.30	7.47
60.0	1.00		5.23	7.19
65.0	1.08		5.32	6.90
70.0	1.17		5.10	6.58
75.0	1.25		5.07	6.23
80.0	1.33		5.13	5.86
85.0	1.42		5.08	5.77
90.0	1.50		5.05	5.38
95.0	1.58		4.93	5.28
100.0	1.67		5.07	5.01
105.0	1.75		5.06	4.83
110.0	1.83		5.00	4.54
115.0	1.92		5.02	4.38
120.0	2.00		5.01	4.26
125.0	2.08		5.01	4.05
130.0	2.17		4.95	4.01

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	63
		Depth (m)	6.500	11.050
		Depth (ft)	21.325	36.253
135.0	2.25		5.04	3.84
140.0	2.33		4.95	3.74
145.0	2.42		4.88	3.61
150.0	2.50		5.13	3.36
155.0	2.58		4.83	3.34
160.0	2.67		5.02	3.23
165.0	2.75		4.92	3.11
170.0	2.83		5.00	3.03
175.0	2.92		4.88	2.94
180.0	3.00		4.90	2.99
185.0	3.08		4.95	2.71
190.0	3.17		4.92	2.77
195.0	3.25		4.94	2.70
200.0	3.33		4.81	2.59
205.0	3.42		4.88	2.64
210.0	3.50		4.85	2.46
215.0	3.58		4.89	2.43
220.0	3.67		4.97	2.48
225.0	3.75		4.80	2.50
230.0	3.83		4.88	2.33
235.0	3.92		5.65	2.24
240.0	4.00		4.95	2.33
245.0	4.08		4.98	2.24
250.0	4.17		4.98	2.23
255.0	4.25		4.93	2.27
260.0	4.33		5.05	2.14
265.0	4.42		5.03	2.11
270.0	4.50		4.93	2.20
275.0	4.58		4.88	2.14
280.0	4.67		4.85	2.14
285.0	4.75		4.96	1.98
290.0	4.83		4.99	2.05
295.0	4.92		5.00	1.97
300.0	5.00		4.90	2.01
305.0	5.08			1.92
310.0	5.17			1.87

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP2-4.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-2-4		
Location:	Bridgeton Landfill		
Sounding Date:	05-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	40
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	66		
Longest Trace - Depth (m):	6.500		
Longest Trace - Depth (ft):	21.325		
Longest Trace - Duration (s):	325.0		
Longest Trace - Duration (min):	5.42		
Longest Trace - Duration (hrs):	0.090		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 66 6.500 21.325	2 10 11.450 37.565	3 61 16.250 53.313
0.0	0.00		115.56	2.78	7.37
5.0	0.08		92.83	3.95	6.21
10.0	0.17		87.98	4.06	6.85
15.0	0.25		84.83	3.88	6.94
20.0	0.33		81.95	4.03	6.76
25.0	0.42		78.98	3.95	6.57
30.0	0.50		76.39	4.02	6.59
35.0	0.58		73.81	4.04	6.30
40.0	0.67		71.69	4.08	6.23
45.0	0.75		69.33	3.99	6.07
50.0	0.83		67.23		5.98
55.0	0.92		65.29		5.82
60.0	1.00		63.35		5.69
65.0	1.08		61.50		5.73
70.0	1.17		60.01		5.65
75.0	1.25		58.43		5.68
80.0	1.33		56.62		5.51
85.0	1.42		55.41		5.38
90.0	1.50		54.10		5.21
95.0	1.58		52.82		5.26
100.0	1.67		51.83		5.17
105.0	1.75		50.72		5.22
110.0	1.83		49.44		5.22
115.0	1.92		48.65		5.11
120.0	2.00		47.52		5.06
125.0	2.08		46.73		5.12
130.0	2.17		45.67		5.09

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	66	10	61
		Depth (m)	6.500	11.450	16.250
		Depth (ft)	21.325	37.565	53.313
135.0	2.25		44.74		5.09
140.0	2.33		43.93		5.14
145.0	2.42		43.26		5.06
150.0	2.50		42.68		5.23
155.0	2.58		41.90		5.15
160.0	2.67		41.24		5.24
165.0	2.75		40.68		5.04
170.0	2.83		39.89		5.29
175.0	2.92		39.32		5.17
180.0	3.00		38.85		5.27
185.0	3.08		38.31		5.41
190.0	3.17		37.80		5.36
195.0	3.25		37.18		5.25
200.0	3.33		36.72		5.38
205.0	3.42		36.23		5.33
210.0	3.50		35.80		5.41
215.0	3.58		35.32		5.43
220.0	3.67		34.72		5.40
225.0	3.75		34.39		5.42
230.0	3.83		34.11		5.55
235.0	3.92		33.62		5.46
240.0	4.00		33.31		5.41
245.0	4.08		32.83		5.43
250.0	4.17		32.67		5.56
255.0	4.25		32.19		5.67
260.0	4.33		31.61		5.55
265.0	4.42		31.53		5.67
270.0	4.50		31.25		5.61
275.0	4.58		30.90		5.78
280.0	4.67		30.38		5.77
285.0	4.75		30.14		5.78
290.0	4.83		29.83		5.72
295.0	4.92		29.68		5.85
300.0	5.00		29.37		5.91
305.0	5.08		29.17		
310.0	5.17		28.85		
315.0	5.25		28.73		
320.0	5.33		28.34		
325.0	5.42		28.37		

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP3-1A.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-3-1A		
Location:	Bridgeton Landfill		
Sounding Date:	24-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	32
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	12.550		
Longest Trace - Depth (ft):	41.174		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	5.500	12.550
		Depth (ft)	18.044	41.174
0.0	0.00		14.20	11.83
5.0	0.08		8.63	9.20
10.0	0.17		9.70	7.03
15.0	0.25		10.52	6.47
20.0	0.33		11.05	6.23
25.0	0.42		11.59	5.92
30.0	0.50		11.93	5.61
35.0	0.58		12.50	5.58
40.0	0.67		12.76	5.30
45.0	0.75		12.71	5.09
50.0	0.83		12.90	4.93
55.0	0.92		13.05	4.75
60.0	1.00		13.21	4.60
65.0	1.08		13.60	4.40
70.0	1.17		13.69	4.26
75.0	1.25		13.48	4.28
80.0	1.33		13.50	4.12
85.0	1.42		13.77	3.84
90.0	1.50		13.71	3.86
95.0	1.58		13.55	3.82
100.0	1.67		13.76	3.61
105.0	1.75		13.52	3.55
110.0	1.83		13.82	3.58
115.0	1.92		13.65	3.51
120.0	2.00		13.63	3.49
125.0	2.08		13.55	3.26
130.0	2.17		13.35	3.21

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	5.500	12.550
		Depth (ft)	18.044	41.174
135.0	2.25		13.08	3.21
140.0	2.33		13.00	3.03
145.0	2.42		12.95	3.13
150.0	2.50		13.02	3.05
155.0	2.58		13.10	3.01
160.0	2.67		13.09	2.99
165.0	2.75		13.01	2.86
170.0	2.83		12.87	2.81
175.0	2.92		13.03	2.89
180.0	3.00		12.63	2.83
185.0	3.08		12.27	2.78
190.0	3.17		12.36	2.85
195.0	3.25		12.43	2.81
200.0	3.33		12.49	2.71
205.0	3.42		12.36	2.71
210.0	3.50		12.31	2.63
215.0	3.58		12.40	2.73
220.0	3.67		12.35	2.72
225.0	3.75		12.33	2.44
230.0	3.83		12.32	2.60
235.0	3.92		12.20	2.59
240.0	4.00		12.17	2.52
245.0	4.08		12.10	2.47
250.0	4.17		12.19	2.50
255.0	4.25		12.09	2.50
260.0	4.33		12.06	2.53
265.0	4.42		11.94	2.46
270.0	4.50		11.61	2.52
275.0	4.58		11.48	2.53
280.0	4.67		11.76	2.53
285.0	4.75		11.75	2.38
290.0	4.83		11.59	2.48
295.0	4.92		11.65	2.40
300.0	5.00		11.65	2.43

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP3-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-3-2		
Location:	Bridgeton Landfill		
Sounding Date:	24-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	40
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	4.000		
Longest Trace - Depth (ft):	13.123		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 4.000 / 13.123	2 / 41 / 14.250 / 46.751
0.0	0.00		11.11	121.39
5.0	0.08		5.86	221.54
10.0	0.17		5.52	201.43
15.0	0.25		6.11	178.74
20.0	0.33		6.04	167.44
25.0	0.42		5.90	159.45
30.0	0.50		5.93	152.39
35.0	0.58		6.07	146.53
40.0	0.67		6.13	140.89
45.0	0.75		5.89	135.45
50.0	0.83		5.91	130.37
55.0	0.92		5.92	125.19
60.0	1.00		5.99	120.23
65.0	1.08		6.02	115.72
70.0	1.17		5.97	112.00
75.0	1.25		5.89	108.40
80.0	1.33		5.84	104.65
85.0	1.42		6.07	101.09
90.0	1.50		5.83	97.50
95.0	1.58		5.98	93.93
100.0	1.67		6.08	90.82
105.0	1.75		5.85	87.80
110.0	1.83		5.82	84.81
115.0	1.92		5.79	82.42
120.0	2.00		6.07	80.46
125.0	2.08		6.01	78.05
130.0	2.17		5.95	75.85

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	41
		Depth (m)	4.000	14.250
		Depth (ft)	13.123	46.751
135.0	2.25		6.31	73.47
140.0	2.33		6.26	71.50
145.0	2.42		6.38	69.42
150.0	2.50		6.20	67.50
155.0	2.58		5.97	65.69
160.0	2.67		5.99	64.12
165.0	2.75		6.05	62.65
170.0	2.83		5.92	61.27
175.0	2.92		6.12	59.75
180.0	3.00		6.19	58.40
185.0	3.08		6.08	57.00
190.0	3.17		6.11	55.86
195.0	3.25		6.02	54.66
200.0	3.33		6.22	53.36
205.0	3.42		6.09	
210.0	3.50		6.18	
215.0	3.58		6.00	
220.0	3.67		6.08	
225.0	3.75		6.03	
230.0	3.83		5.99	
235.0	3.92		6.30	
240.0	4.00		6.28	
245.0	4.08		6.27	
250.0	4.17		6.12	
255.0	4.25		6.15	
260.0	4.33		6.10	
265.0	4.42		6.17	
270.0	4.50		6.23	
275.0	4.58		6.20	
280.0	4.67		6.12	
285.0	4.75		6.14	
290.0	4.83		6.11	
295.0	4.92		6.18	
300.0	5.00		6.24	

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP4-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-4-1		
Location:	Bridgeton Landfill		
Sounding Date:	14-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	33
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	13.750		
Longest Trace - Depth (ft):	45.111		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 2.500 / 8.202	2 / 61 / 13.750 / 45.111
0.0	0.00		0.02	12.77
5.0	0.08		0.59	12.77
10.0	0.17		0.40	12.62
15.0	0.25		0.49	12.48
20.0	0.33		0.47	12.44
25.0	0.42		0.40	12.40
30.0	0.50		0.40	12.30
35.0	0.58		0.25	12.11
40.0	0.67		0.24	12.06
45.0	0.75		0.19	11.93
50.0	0.83		0.14	11.89
55.0	0.92		0.23	11.81
60.0	1.00		0.20	11.83
65.0	1.08		0.36	11.64
70.0	1.17		0.17	11.63
75.0	1.25		0.26	11.54
80.0	1.33		0.14	11.53
85.0	1.42		0.11	11.46
90.0	1.50		0.06	11.42
95.0	1.58		0.06	11.37
100.0	1.67		0.17	11.32
105.0	1.75		0.10	11.30
110.0	1.83		0.26	11.19
115.0	1.92		0.23	11.24
120.0	2.00		0.30	11.22
125.0	2.08		0.19	11.20
130.0	2.17		0.31	11.04

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	2.500	13.750
		Depth (ft)	8.202	45.111
135.0	2.25		0.26	11.04
140.0	2.33		0.25	10.98
145.0	2.42		0.04	10.83
150.0	2.50		0.01	10.85
155.0	2.58		0.06	10.78
160.0	2.67		0.08	10.80
165.0	2.75		-0.04	10.77
170.0	2.83		-0.06	10.68
175.0	2.92		-0.09	10.66
180.0	3.00		0.21	10.67
185.0	3.08		0.26	10.57
190.0	3.17		0.23	10.54
195.0	3.25		0.14	10.53
200.0	3.33		0.12	10.54
205.0	3.42		0.24	10.51
210.0	3.50		0.27	10.48
215.0	3.58		0.26	10.43
220.0	3.67		0.22	10.50
225.0	3.75		0.20	10.30
230.0	3.83		0.19	10.34
235.0	3.92		0.26	10.30
240.0	4.00		0.19	10.35
245.0	4.08		0.24	10.27
250.0	4.17		0.26	10.15
255.0	4.25		0.28	10.16
260.0	4.33		0.07	10.17
265.0	4.42		0.21	10.23
270.0	4.50		0.12	10.13
275.0	4.58		0.18	10.14
280.0	4.67		0.13	10.20
285.0	4.75		0.20	10.07
290.0	4.83		0.25	9.99
295.0	4.92		0.18	10.10
300.0	5.00		0.32	10.00

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP4-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-4-2		
Location:	Bridgeton Landfill		
Sounding Date:	14-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	47
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	81		
Longest Trace - Depth (m):	16.100		
Longest Trace - Depth (ft):	52.821		
Longest Trace - Duration (s):	400.0		
Longest Trace - Duration (min):	6.67		
Longest Trace - Duration (hrs):	0.111		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.750 / 22.145	2 / 81 / 16.100 / 52.821
0.0	0.00		2.54	4.41
5.0	0.08		2.86	4.34
10.0	0.17		3.18	4.28
15.0	0.25		3.24	4.24
20.0	0.33		3.43	4.27
25.0	0.42		3.56	4.24
30.0	0.50		3.45	4.08
35.0	0.58		3.58	4.04
40.0	0.67		3.57	4.15
45.0	0.75		3.57	4.02
50.0	0.83		3.61	3.95
55.0	0.92		3.61	3.96
60.0	1.00		3.71	3.89
65.0	1.08		3.70	3.91
70.0	1.17		3.72	3.81
75.0	1.25		3.72	3.73
80.0	1.33		3.76	3.74
85.0	1.42		3.87	3.69
90.0	1.50		3.85	3.60
95.0	1.58		3.82	3.77
100.0	1.67		3.85	3.54
105.0	1.75		3.87	3.50
110.0	1.83		3.81	3.59
115.0	1.92		3.85	3.52
120.0	2.00		3.90	3.47
125.0	2.08		3.89	3.40
130.0	2.17		3.81	3.30

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	81
		Depth (m)	6.750	16.100
		Depth (ft)	22.145	52.821
135.0	2.25		3.79	3.36
140.0	2.33		3.94	3.36
145.0	2.42		3.99	3.35
150.0	2.50		4.01	3.38
155.0	2.58		3.92	3.28
160.0	2.67		3.89	3.24
165.0	2.75		3.90	3.19
170.0	2.83		3.94	3.16
175.0	2.92		3.88	3.18
180.0	3.00		3.85	3.12
185.0	3.08		3.91	3.19
190.0	3.17		3.89	3.12
195.0	3.25		4.03	3.09
200.0	3.33		3.95	3.12
205.0	3.42		4.09	3.03
210.0	3.50		3.95	2.94
215.0	3.58		4.06	2.97
220.0	3.67		4.04	2.94
225.0	3.75		4.01	2.93
230.0	3.83		3.89	2.87
235.0	3.92		4.02	2.89
240.0	4.00		3.98	2.86
245.0	4.08		3.95	2.85
250.0	4.17		4.07	2.85
255.0	4.25		3.97	2.92
260.0	4.33		4.00	2.86
265.0	4.42		3.92	2.85
270.0	4.50		4.04	2.80
275.0	4.58		4.15	2.78
280.0	4.67		4.09	2.77
285.0	4.75		4.00	2.77
290.0	4.83		4.08	2.67
295.0	4.92		4.02	2.68
300.0	5.00		4.14	2.75
305.0	5.08			2.65
310.0	5.17			2.61
315.0	5.25			2.64
320.0	5.33			2.54
325.0	5.42			2.51
330.0	5.50			2.66
335.0	5.58			2.62
340.0	5.67			2.55
345.0	5.75			2.59
350.0	5.83			2.47
355.0	5.92			2.63
360.0	6.00			2.59
365.0	6.08			2.51
370.0	6.17			2.50
375.0	6.25			2.46
380.0	6.33			2.45
385.0	6.42			2.47
390.0	6.50			2.44
395.0	6.58			2.36

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	81
		Depth (m)	6.750	16.100
		Depth (ft)	22.145	52.821
400.0	6.67			2.46

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP5-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-5-1		
Location:	Bridgeton Landfill		
Sounding Date:	19-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	29
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	9.800		
Longest Trace - Depth (ft):	32.152		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 3.200 / 10.499	2 / 61 / 9.800 / 32.152
0.0	0.00		7.79	18.96
5.0	0.08		7.00	18.63
10.0	0.17		6.62	18.50
15.0	0.25		6.63	18.58
20.0	0.33		6.54	18.71
25.0	0.42		6.72	18.72
30.0	0.50		6.73	18.71
35.0	0.58		6.77	18.76
40.0	0.67		6.88	18.78
45.0	0.75		7.02	18.81
50.0	0.83		6.97	18.76
55.0	0.92		7.11	18.76
60.0	1.00		7.10	18.72
65.0	1.08		7.21	18.75
70.0	1.17		7.25	18.70
75.0	1.25		7.44	18.77
80.0	1.33		7.47	18.69
85.0	1.42		7.56	18.70
90.0	1.50		7.58	18.67
95.0	1.58		7.58	18.59
100.0	1.67		7.64	18.65
105.0	1.75		7.73	18.66
110.0	1.83		7.76	18.53
115.0	1.92		7.85	18.48
120.0	2.00		7.98	18.46
125.0	2.08		7.96	18.48
130.0	2.17		8.00	18.44

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	3.200	9.800
		Depth (ft)	10.499	32.152
135.0	2.25		8.07	18.39
140.0	2.33		8.10	18.35
145.0	2.42		8.12	18.32
150.0	2.50		8.23	18.27
155.0	2.58		8.23	18.29
160.0	2.67		8.33	18.27
165.0	2.75		8.43	18.16
170.0	2.83		8.38	18.09
175.0	2.92		8.45	18.06
180.0	3.00		8.41	18.00
185.0	3.08		8.53	18.05
190.0	3.17		8.51	17.96
195.0	3.25		8.49	17.92
200.0	3.33		8.55	17.90
205.0	3.42		8.56	17.84
210.0	3.50		8.68	17.88
215.0	3.58		8.71	17.77
220.0	3.67		8.73	17.66
225.0	3.75		8.84	17.60
230.0	3.83		8.84	17.63
235.0	3.92		8.83	17.58
240.0	4.00		8.83	17.51
245.0	4.08		8.95	17.49
250.0	4.17		8.95	17.48
255.0	4.25		8.94	17.37
260.0	4.33		8.96	17.40
265.0	4.42		8.97	17.31
270.0	4.50		9.02	17.27
275.0	4.58		9.03	17.22
280.0	4.67		9.01	17.20
285.0	4.75		9.11	17.15
290.0	4.83		9.02	17.16
295.0	4.92		9.17	17.07
300.0	5.00		9.14	17.01

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP5-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-5-2		
Location:	Bridgeton Landfill		
Sounding Date:	18-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	43
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	83		
Longest Trace - Depth (m):	6.850		
Longest Trace - Depth (ft):	22.473		
Longest Trace - Duration (s):	410.0		
Longest Trace - Duration (min):	6.83		
Longest Trace - Duration (hrs):	0.114		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 83 6.850 22.473	2 61 15.600 51.180
0.0	0.00		4.58	5.07
5.0	0.08		2.08	5.12
10.0	0.17		2.09	5.10
15.0	0.25		1.97	5.19
20.0	0.33		1.95	5.07
25.0	0.42		2.01	5.03
30.0	0.50		1.97	5.42
35.0	0.58		2.02	5.04
40.0	0.67		2.01	4.98
45.0	0.75		2.09	4.96
50.0	0.83		1.95	4.89
55.0	0.92		1.97	5.03
60.0	1.00		1.92	4.90
65.0	1.08		1.90	4.85
70.0	1.17		2.03	4.97
75.0	1.25		1.91	4.93
80.0	1.33		1.96	4.90
85.0	1.42		1.87	4.80
90.0	1.50		2.05	4.80
95.0	1.58		1.96	4.85
100.0	1.67		1.94	4.79
105.0	1.75		2.01	4.84
110.0	1.83		2.02	4.72
115.0	1.92		1.85	4.78
120.0	2.00		2.03	4.68
125.0	2.08		1.94	4.59
130.0	2.17		1.96	4.64

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	83	61
		Depth (m)	6.850	15.600
		Depth (ft)	22.473	51.180
135.0	2.25		1.92	4.69
140.0	2.33		2.00	4.60
145.0	2.42		1.99	4.59
150.0	2.50		2.00	4.56
155.0	2.58		1.90	4.63
160.0	2.67		1.96	4.60
165.0	2.75		1.90	4.50
170.0	2.83		2.00	4.58
175.0	2.92		1.97	4.55
180.0	3.00		2.00	4.53
185.0	3.08		1.95	4.46
190.0	3.17		1.95	4.49
195.0	3.25		1.98	4.43
200.0	3.33		1.99	4.43
205.0	3.42		1.94	4.37
210.0	3.50		1.96	4.38
215.0	3.58		1.96	4.43
220.0	3.67		1.97	4.37
225.0	3.75		1.77	4.27
230.0	3.83		1.93	4.34
235.0	3.92		1.95	4.30
240.0	4.00		1.80	4.31
245.0	4.08		1.91	4.40
250.0	4.17		2.03	4.35
255.0	4.25		1.96	4.28
260.0	4.33		1.87	4.39
265.0	4.42		1.93	4.35
270.0	4.50		1.90	4.37
275.0	4.58		1.97	4.22
280.0	4.67		1.85	4.20
285.0	4.75		1.92	4.21
290.0	4.83		1.94	4.23
295.0	4.92		1.97	4.21
300.0	5.00		1.88	4.16
305.0	5.08		1.89	
310.0	5.17		1.56	
315.0	5.25		1.92	
320.0	5.33		1.82	
325.0	5.42		1.88	
330.0	5.50		1.92	
335.0	5.58		1.89	
340.0	5.67		1.81	
345.0	5.75		1.88	
350.0	5.83		1.85	
355.0	5.92		1.75	
360.0	6.00		1.87	
365.0	6.08		1.85	
370.0	6.17		1.91	
375.0	6.25		1.72	
380.0	6.33		1.65	
385.0	6.42		1.69	
390.0	6.50		1.72	
395.0	6.58		1.74	

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	83	61
		Depth (m)	6.850	15.600
		Depth (ft)	22.473	51.180
400.0	6.67		1.66	
405.0	6.75		1.92	
410.0	6.83		1.70	

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP5-3.PPD
Job Number:	13-53075
Sounding ID:	GCPT-5-3
Location:	Bridgeton Landfill
Sounding Date:	19-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	2 Of 26
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	2
Longest Trace - Points:	61
Longest Trace - Depth (m):	13.500
Longest Trace - Depth (ft):	44.291
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	3.050	13.500
		Depth (ft)	10.006	44.291
0.0	0.00		-0.39	17.41
5.0	0.08		-0.71	17.19
10.0	0.17		-0.49	17.16
15.0	0.25		-0.47	17.26
20.0	0.33		-0.27	17.21
25.0	0.42		-0.45	17.14
30.0	0.50		-0.38	17.22
35.0	0.58		-0.30	17.17
40.0	0.67		-0.31	17.05
45.0	0.75		-0.24	17.14
50.0	0.83		-0.31	17.04
55.0	0.92		-0.20	17.07
60.0	1.00		-0.07	17.01
65.0	1.08		-0.11	17.16
70.0	1.17		-0.04	17.00
75.0	1.25		-0.03	17.09
80.0	1.33		-0.08	16.92
85.0	1.42		0.00	16.93
90.0	1.50		-0.02	16.89
95.0	1.58		0.07	16.85
100.0	1.67		0.13	16.84
105.0	1.75		0.04	16.83
110.0	1.83		0.13	16.79
115.0	1.92		0.12	16.82
120.0	2.00		0.20	16.74
125.0	2.08		0.12	16.69
130.0	2.17		0.17	16.74

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	3.050	13.500
		Depth (ft)	10.006	44.291
135.0	2.25		0.22	16.57
140.0	2.33		0.19	16.57
145.0	2.42		0.24	16.51
150.0	2.50		0.25	16.58
155.0	2.58		0.19	16.62
160.0	2.67		0.20	16.42
165.0	2.75		0.25	16.52
170.0	2.83		0.18	16.43
175.0	2.92		0.19	16.55
180.0	3.00		0.26	16.45
185.0	3.08		0.29	16.34
190.0	3.17		0.33	16.39
195.0	3.25		0.30	16.35
200.0	3.33		0.29	16.36
205.0	3.42		0.38	16.28
210.0	3.50		0.37	16.71
215.0	3.58		0.30	16.21
220.0	3.67		0.21	16.24
225.0	3.75		0.33	16.13
230.0	3.83		0.38	16.08
235.0	3.92		0.30	16.13
240.0	4.00		0.34	16.11
245.0	4.08		0.37	16.16
250.0	4.17		0.36	16.14
255.0	4.25		0.36	16.07
260.0	4.33		0.41	16.14
265.0	4.42		0.32	16.08
270.0	4.50		0.41	16.13
275.0	4.58		0.32	15.99
280.0	4.67		0.29	16.00
285.0	4.75		0.37	16.04
290.0	4.83		0.36	15.99
295.0	4.92		0.38	15.99
300.0	5.00		0.29	16.05

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP5-4A.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-5-4A		
Location:	Bridgeton Landfill		
Sounding Date:	19-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	57
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	14.100		
Longest Trace - Depth (ft):	46.259		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.100	14.100
		Depth (ft)	20.013	46.259
0.0	0.00		3.80	9.84
5.0	0.08		3.71	9.76
10.0	0.17		3.57	9.83
15.0	0.25		3.62	9.76
20.0	0.33		3.54	9.79
25.0	0.42		3.56	9.68
30.0	0.50		3.52	9.62
35.0	0.58		3.59	9.51
40.0	0.67		3.53	9.43
45.0	0.75		3.43	9.41
50.0	0.83		3.56	9.38
55.0	0.92		3.52	9.29
60.0	1.00		3.52	9.23
65.0	1.08		3.43	9.17
70.0	1.17		3.49	9.03
75.0	1.25		3.34	9.05
80.0	1.33		3.31	8.97
85.0	1.42		3.39	8.90
90.0	1.50		3.48	8.89
95.0	1.58		3.49	8.81
100.0	1.67		3.34	8.78
105.0	1.75		3.27	8.77
110.0	1.83		3.34	8.71
115.0	1.92		3.28	8.68
120.0	2.00		3.26	8.57
125.0	2.08		3.33	8.58
130.0	2.17		3.31	8.52

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.100	14.100
		Depth (ft)	20.013	46.259
135.0	2.25		3.32	8.47
140.0	2.33		3.28	8.43
145.0	2.42		3.24	8.41
150.0	2.50		3.36	8.39
155.0	2.58		3.26	8.43
160.0	2.67		3.21	8.39
165.0	2.75		3.28	8.28
170.0	2.83		3.21	8.30
175.0	2.92		3.26	8.29
180.0	3.00		3.18	8.22
185.0	3.08		3.21	8.17
190.0	3.17		3.17	8.20
195.0	3.25		3.27	8.15
200.0	3.33		3.17	8.21
205.0	3.42		3.14	8.12
210.0	3.50		3.29	8.14
215.0	3.58		3.12	8.17
220.0	3.67		3.21	8.12
225.0	3.75		3.29	8.04
230.0	3.83		3.14	8.10
235.0	3.92		3.20	8.15
240.0	4.00		3.27	8.01
245.0	4.08		3.20	8.08
250.0	4.17		3.23	8.11
255.0	4.25		3.22	8.00
260.0	4.33		3.24	7.97
265.0	4.42		3.13	8.07
270.0	4.50		3.18	7.89
275.0	4.58		3.20	7.96
280.0	4.67		3.11	7.93
285.0	4.75		3.20	7.95
290.0	4.83		3.10	7.88
295.0	4.92		3.21	8.02
300.0	5.00		3.24	7.91

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP5-5.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-5-5		
Location:	Bridgeton Landfill		
Sounding Date:	05-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	32
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	81		
Longest Trace - Depth (m):	14.600		
Longest Trace - Depth (ft):	47.900		
Longest Trace - Duration (s):	400.0		
Longest Trace - Duration (min):	6.67		
Longest Trace - Duration (hrs):	0.111		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	81
		Depth (m)	7.800	14.600
		Depth (ft)	25.590	47.900
0.0	0.00		21.91	79.78
5.0	0.08		26.49	72.80
10.0	0.17		24.93	73.22
15.0	0.25		23.04	76.21
20.0	0.33		21.74	80.70
25.0	0.42		20.02	84.27
30.0	0.50		18.66	87.08
35.0	0.58		17.71	89.28
40.0	0.67		16.85	90.87
45.0	0.75		15.91	92.42
50.0	0.83		15.63	93.41
55.0	0.92		15.11	94.42
60.0	1.00		14.39	95.11
65.0	1.08		13.76	95.59
70.0	1.17		13.43	96.13
75.0	1.25		13.04	96.38
80.0	1.33		12.77	96.68
85.0	1.42		12.51	96.92
90.0	1.50		12.26	97.22
95.0	1.58		12.59	97.30
100.0	1.67		11.98	97.42
105.0	1.75		12.19	97.42
110.0	1.83		11.51	97.75
115.0	1.92		11.47	98.08
120.0	2.00		11.21	98.17
125.0	2.08		11.54	98.38
130.0	2.17		11.17	98.47

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	81
		Depth (m)	7.800	14.600
		Depth (ft)	25.590	47.900
135.0	2.25		11.23	98.51
140.0	2.33		10.78	98.61
145.0	2.42		10.76	98.67
150.0	2.50		10.71	98.79
155.0	2.58		10.42	99.06
160.0	2.67		10.71	98.97
165.0	2.75		10.31	99.06
170.0	2.83		10.71	99.27
175.0	2.92		10.47	99.37
180.0	3.00		10.73	99.29
185.0	3.08		10.28	99.44
190.0	3.17		10.09	99.51
195.0	3.25		10.00	99.61
200.0	3.33		10.30	99.67
205.0	3.42		10.16	99.89
210.0	3.50		10.11	99.68
215.0	3.58		10.35	99.87
220.0	3.67		9.89	99.78
225.0	3.75		10.08	99.75
230.0	3.83		9.90	99.85
235.0	3.92		10.10	99.88
240.0	4.00		10.01	99.90
245.0	4.08		9.84	99.79
250.0	4.17		9.56	99.86
255.0	4.25		10.10	99.89
260.0	4.33		10.09	99.86
265.0	4.42		10.23	99.98
270.0	4.50		10.06	99.92
275.0	4.58		9.95	100.07
280.0	4.67		9.64	99.98
285.0	4.75		10.24	99.93
290.0	4.83		9.75	99.96
295.0	4.92		9.40	99.74
300.0	5.00		9.51	99.84
305.0	5.08			99.73
310.0	5.17			99.83
315.0	5.25			99.86
320.0	5.33			99.74
325.0	5.42			99.79
330.0	5.50			99.68
335.0	5.58			99.80
340.0	5.67			99.62
345.0	5.75			99.56
350.0	5.83			99.49
355.0	5.92			99.66
360.0	6.00			99.30
365.0	6.08			99.24
370.0	6.17			99.46
375.0	6.25			99.35
380.0	6.33			99.15
385.0	6.42			99.12
390.0	6.50			99.03
395.0	6.58			98.90

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	81
		Depth (m)	7.800	14.600
		Depth (ft)	25.590	47.900
400.0	6.67			98.99

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP5-6.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-5-6		
Location:	Bridgeton Landfill		
Sounding Date:	05-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	4	Of	24
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	5.950		
Longest Trace - Depth (ft):	19.521		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 71 5.950 19.521	2 26 9.500 31.168	3 46 10.500 34.448	4 61 13.750 45.111
0.0	0.00		26.08	8.34	4.72	19.02
5.0	0.08		33.11	7.26	4.86	15.48
10.0	0.17		29.86	7.19	5.13	18.47
15.0	0.25		27.84	6.82	5.15	21.92
20.0	0.33		25.83	6.28	4.64	26.52
25.0	0.42		23.95	6.40	4.59	31.16
30.0	0.50		23.50	6.17	4.50	34.91
35.0	0.58		22.50	5.90	4.50	38.38
40.0	0.67		21.57	5.76	3.90	41.59
45.0	0.75		21.02	5.54	4.41	43.78
50.0	0.83		20.51	5.27	3.84	45.50
55.0	0.92		20.09	5.00	4.26	46.29
60.0	1.00		19.33	4.93	3.76	46.88
65.0	1.08		19.34	4.70	3.76	47.29
70.0	1.17		18.76	4.63	4.16	47.01
75.0	1.25		18.49	4.68	4.31	47.05
80.0	1.33		17.99	4.42	4.13	46.46
85.0	1.42		18.07	4.35	4.19	46.21
90.0	1.50		17.60	4.34	4.63	45.41
95.0	1.58		17.05	4.12	4.77	44.82
100.0	1.67		17.07	4.15	4.65	44.07
105.0	1.75		16.76	3.68	4.19	43.49
110.0	1.83		16.51	3.83	4.32	42.80
115.0	1.92		16.30	3.58	4.06	41.95
120.0	2.00		16.33	3.00	4.17	41.16
125.0	2.08		16.03	2.89	4.01	40.57
130.0	2.17		15.96		4.28	39.87

Time (s)	Time (min)	Trace No.	1	2	3	4
		Trace Points	71	26	46	61
		Depth (m)	5.950	9.500	10.500	13.750
		Depth (ft)	19.521	31.168	34.448	45.111
135.0	2.25		15.76		4.42	39.30
140.0	2.33		15.71		4.29	38.63
145.0	2.42		15.30		4.15	37.98
150.0	2.50		15.16		4.42	37.33
155.0	2.58		15.13		4.36	36.79
160.0	2.67		14.58		4.70	36.29
165.0	2.75		14.76		4.07	35.86
170.0	2.83		14.42		4.72	35.46
175.0	2.92		14.30		4.28	34.84
180.0	3.00		14.03		4.36	34.17
185.0	3.08		13.89		4.50	34.01
190.0	3.17		13.96		4.60	33.26
195.0	3.25		13.53		4.53	32.88
200.0	3.33		13.95		4.77	32.56
205.0	3.42		13.35		5.06	32.29
210.0	3.50		13.60		4.41	31.85
215.0	3.58		13.30		4.55	31.54
220.0	3.67		13.53		4.91	31.04
225.0	3.75		13.28		4.80	30.88
230.0	3.83		13.02			30.44
235.0	3.92		12.91			30.19
240.0	4.00		12.98			29.91
245.0	4.08		12.78			29.56
250.0	4.17		12.83			29.08
255.0	4.25		12.55			28.85
260.0	4.33		12.46			28.67
265.0	4.42		12.15			28.42
270.0	4.50		12.11			27.97
275.0	4.58		12.33			27.62
280.0	4.67		12.15			27.48
285.0	4.75		12.12			27.12
290.0	4.83		11.98			27.06
295.0	4.92		12.18			26.83
300.0	5.00		11.66			26.58
305.0	5.08		11.83			
310.0	5.17		11.69			
315.0	5.25		11.54			
320.0	5.33		11.62			
325.0	5.42		11.93			
330.0	5.50		11.49			
335.0	5.58		11.43			
340.0	5.67		11.11			
345.0	5.75		11.22			
350.0	5.83		11.16			

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP6-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-6-2		
Location:	Bridgeton Landfill		
Sounding Date:	19-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	124
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	14.850		
Longest Trace - Depth (ft):	48.720		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 9.550 / 31.332	2 / 61 / 14.850 / 48.720
0.0	0.00		3.02	3.83
5.0	0.08		5.04	3.92
10.0	0.17		4.96	3.77
15.0	0.25		5.68	3.81
20.0	0.33		6.03	3.86
25.0	0.42		5.97	3.86
30.0	0.50		6.08	3.84
35.0	0.58		6.06	3.69
40.0	0.67		6.06	3.72
45.0	0.75		6.06	3.71
50.0	0.83		6.05	3.74
55.0	0.92		5.93	3.68
60.0	1.00		5.98	3.79
65.0	1.08		5.78	3.70
70.0	1.17		5.87	3.74
75.0	1.25		5.72	3.76
80.0	1.33		5.67	3.68
85.0	1.42		5.63	3.70
90.0	1.50		5.54	3.72
95.0	1.58		5.33	3.73
100.0	1.67		5.45	3.69
105.0	1.75		5.28	3.63
110.0	1.83		5.29	3.70
115.0	1.92		5.22	3.60
120.0	2.00		5.30	3.57
125.0	2.08		5.28	3.62
130.0	2.17		5.16	3.60

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	9.550	14.850
		Depth (ft)	31.332	48.720
135.0	2.25		5.09	3.68
140.0	2.33		5.07	3.72
145.0	2.42		5.06	3.64
150.0	2.50		5.00	3.64
155.0	2.58		4.94	3.65
160.0	2.67		4.97	3.67
165.0	2.75		4.90	3.61
170.0	2.83		4.85	3.60
175.0	2.92		4.95	3.56
180.0	3.00		4.80	3.57
185.0	3.08		4.79	3.62
190.0	3.17		4.84	3.64
195.0	3.25		4.75	3.58
200.0	3.33		4.74	3.65
205.0	3.42		4.80	3.55
210.0	3.50		4.73	3.57
215.0	3.58		4.73	3.58
220.0	3.67		4.64	3.57
225.0	3.75		4.68	3.64
230.0	3.83		4.71	3.62
235.0	3.92		4.65	3.55
240.0	4.00		4.69	3.50
245.0	4.08		4.69	3.50
250.0	4.17		4.65	3.56
255.0	4.25		4.66	3.51
260.0	4.33		4.59	3.53
265.0	4.42		4.55	3.58
270.0	4.50		4.57	3.55
275.0	4.58		4.47	3.53
280.0	4.67		4.53	3.55
285.0	4.75		4.46	3.47
290.0	4.83		4.47	3.48
295.0	4.92		4.58	3.47
300.0	5.00		4.52	3.55

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP6-3.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-6-3		
Location:	Bridgeton Landfill		
Sounding Date:	19-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	29
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	12.150		
Longest Trace - Depth (ft):	39.862		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.600 / 21.653	2 / 61 / 12.150 / 39.862
0.0	0.00		3.56	5.32
5.0	0.08		3.91	5.28
10.0	0.17		3.97	5.17
15.0	0.25		4.03	5.07
20.0	0.33		4.24	5.12
25.0	0.42		4.28	5.00
30.0	0.50		4.34	4.82
35.0	0.58		4.33	4.73
40.0	0.67		4.35	4.60
45.0	0.75		4.37	4.61
50.0	0.83		4.39	4.55
55.0	0.92		4.29	4.45
60.0	1.00		4.38	4.39
65.0	1.08		4.25	4.34
70.0	1.17		4.24	4.32
75.0	1.25		4.27	4.32
80.0	1.33		4.34	4.23
85.0	1.42		4.26	4.23
90.0	1.50		4.34	4.15
95.0	1.58		4.24	4.07
100.0	1.67		4.36	4.09
105.0	1.75		4.33	4.11
110.0	1.83		4.39	4.02
115.0	1.92		4.27	3.97
120.0	2.00		4.38	3.97
125.0	2.08		4.28	3.90
130.0	2.17		4.43	3.75

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.600	12.150
		Depth (ft)	21.653	39.862
135.0	2.25		4.41	3.82
140.0	2.33		4.40	3.85
145.0	2.42		4.53	3.74
150.0	2.50		4.47	3.71
155.0	2.58		4.37	3.75
160.0	2.67		4.56	3.70
165.0	2.75		4.42	3.66
170.0	2.83		4.43	3.63
175.0	2.92		4.52	3.64
180.0	3.00		4.41	3.57
185.0	3.08		4.38	3.65
190.0	3.17		4.60	3.62
195.0	3.25		4.49	3.56
200.0	3.33		4.58	3.58
205.0	3.42		4.44	3.57
210.0	3.50		4.48	3.69
215.0	3.58		4.40	3.55
220.0	3.67		4.46	3.51
225.0	3.75		4.38	3.58
230.0	3.83		4.44	3.58
235.0	3.92		4.51	3.59
240.0	4.00		4.51	3.63
245.0	4.08		4.43	3.57
250.0	4.17		4.52	3.56
255.0	4.25		4.41	3.51
260.0	4.33		4.49	3.50
265.0	4.42		4.47	3.59
270.0	4.50		4.51	3.39
275.0	4.58		4.53	3.53
280.0	4.67		4.48	3.43
285.0	4.75		4.42	3.46
290.0	4.83		4.57	3.47
295.0	4.92		4.57	3.51
300.0	5.00		4.57	3.54

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP6-4.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-6-4		
Location:	Bridgeton Landfill		
Sounding Date:	16-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	72
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	6.100		
Longest Trace - Depth (ft):	20.013		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 71 / 6.100 / 20.013	2 / 47 / 7.800 / 25.590
0.0	0.00		3.97	2.53
5.0	0.08		3.97	1.55
10.0	0.17		3.86	2.09
15.0	0.25		4.03	2.18
20.0	0.33		3.80	2.21
25.0	0.42		3.83	2.21
30.0	0.50		3.91	2.21
35.0	0.58		3.88	2.19
40.0	0.67		3.85	2.12
45.0	0.75		3.82	2.19
50.0	0.83		3.86	2.19
55.0	0.92		3.86	2.19
60.0	1.00		3.82	2.19
65.0	1.08		3.82	2.19
70.0	1.17		3.76	2.18
75.0	1.25		3.78	2.14
80.0	1.33		3.79	2.13
85.0	1.42		3.82	2.10
90.0	1.50		3.75	2.15
95.0	1.58		3.82	2.10
100.0	1.67		3.71	2.06
105.0	1.75		3.77	2.05
110.0	1.83		3.83	2.08
115.0	1.92		3.66	2.12
120.0	2.00		3.76	2.06
125.0	2.08		3.84	1.98
130.0	2.17		3.74	2.07

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	71	47
		Depth (m)	6.100	7.800
		Depth (ft)	20.013	25.590
135.0	2.25		3.71	2.06
140.0	2.33		3.85	1.99
145.0	2.42		3.75	1.97
150.0	2.50		3.71	1.99
155.0	2.58		3.75	1.93
160.0	2.67		3.73	1.92
165.0	2.75		3.73	1.95
170.0	2.83		3.79	1.95
175.0	2.92		3.68	1.88
180.0	3.00		3.73	1.87
185.0	3.08		3.69	1.87
190.0	3.17		3.80	1.81
195.0	3.25		3.68	1.75
200.0	3.33		3.67	1.80
205.0	3.42		3.68	1.72
210.0	3.50		3.61	1.85
215.0	3.58		3.58	1.71
220.0	3.67		3.54	1.69
225.0	3.75		3.68	1.74
230.0	3.83		3.61	1.78
235.0	3.92		3.59	
240.0	4.00		3.75	
245.0	4.08		3.63	
250.0	4.17		3.63	
255.0	4.25		3.70	
260.0	4.33		3.66	
265.0	4.42		3.64	
270.0	4.50		3.58	
275.0	4.58		3.63	
280.0	4.67		3.62	
285.0	4.75		3.61	
290.0	4.83		3.49	
295.0	4.92		3.56	
300.0	5.00		3.69	
305.0	5.08		3.52	
310.0	5.17		3.57	
315.0	5.25		3.59	
320.0	5.33		3.54	
325.0	5.42		3.48	
330.0	5.50		3.58	
335.0	5.58		3.58	
340.0	5.67		3.57	
345.0	5.75		3.53	
350.0	5.83		3.57	

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP6-5.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-6-5		
Location:	Bridgeton Landfill		
Sounding Date:	16-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	144
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	16.800		
Longest Trace - Depth (ft):	55.117		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.100 / 20.013	2 / 61 / 16.800 / 55.117
0.0	0.00		2.85	2.37
5.0	0.08		2.91	2.77
10.0	0.17		3.04	2.96
15.0	0.25		3.02	3.09
20.0	0.33		2.92	3.12
25.0	0.42		2.82	3.07
30.0	0.50		2.88	3.11
35.0	0.58		3.00	3.13
40.0	0.67		2.79	3.08
45.0	0.75		2.94	3.11
50.0	0.83		2.87	3.07
55.0	0.92		2.90	3.08
60.0	1.00		2.84	3.08
65.0	1.08		2.81	3.17
70.0	1.17		2.85	3.11
75.0	1.25		2.80	3.12
80.0	1.33		2.87	3.03
85.0	1.42		2.94	3.09
90.0	1.50		2.78	3.04
95.0	1.58		2.80	3.03
100.0	1.67		2.83	3.03
105.0	1.75		2.81	3.06
110.0	1.83		2.92	3.04
115.0	1.92		2.92	3.01
120.0	2.00		2.82	3.06
125.0	2.08		2.96	3.11
130.0	2.17		2.84	3.05

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.100	16.800
		Depth (ft)	20.013	55.117
135.0	2.25		2.86	3.01
140.0	2.33		2.94	3.01
145.0	2.42		2.92	3.00
150.0	2.50		3.04	3.05
155.0	2.58		2.92	3.02
160.0	2.67		2.81	2.98
165.0	2.75		2.87	3.05
170.0	2.83		2.95	3.11
175.0	2.92		2.81	3.01
180.0	3.00		3.01	3.14
185.0	3.08		3.06	3.20
190.0	3.17		2.96	3.20
195.0	3.25		2.92	3.18
200.0	3.33		3.01	3.18
205.0	3.42		2.86	3.13
210.0	3.50		2.99	3.20
215.0	3.58		3.03	3.24
220.0	3.67		3.03	3.32
225.0	3.75		3.07	3.29
230.0	3.83		2.98	3.24
235.0	3.92		2.99	3.25
240.0	4.00		3.12	3.21
245.0	4.08		3.10	3.34
250.0	4.17		3.07	3.27
255.0	4.25		3.10	3.35
260.0	4.33		2.94	3.37
265.0	4.42		3.15	3.45
270.0	4.50		3.04	3.44
275.0	4.58		3.05	3.36
280.0	4.67		3.19	3.38
285.0	4.75		3.11	3.36
290.0	4.83		3.16	3.38
295.0	4.92		3.09	3.38
300.0	5.00		3.03	3.32

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP6-6.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-6-6		
Location:	Bridgeton Landfill		
Sounding Date:	06-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	21
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	3		
Longest Trace - Points:	62		
Longest Trace - Depth (m):	12.700		
Longest Trace - Depth (ft):	41.666		
Longest Trace - Duration (s):	305.0		
Longest Trace - Duration (min):	5.08		
Longest Trace - Duration (hrs):	0.085		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	61	29	62
		Depth (m)	7.150	9.600	12.700
		Depth (ft)	23.458	31.496	41.666
0.0	0.00		-2.37	5.29	34.00
5.0	0.08		1.74	5.79	15.83
10.0	0.17		1.26	6.18	11.65
15.0	0.25		1.01	6.53	10.78
20.0	0.33		0.86	6.43	10.06
25.0	0.42		1.10	6.59	9.63
30.0	0.50		0.84	6.48	9.20
35.0	0.58		1.00	6.55	8.75
40.0	0.67		0.82	6.43	8.33
45.0	0.75		0.98	6.40	7.96
50.0	0.83		0.92	6.11	7.55
55.0	0.92		0.97	6.37	7.32
60.0	1.00		0.95	6.38	6.97
65.0	1.08		0.73	6.42	6.83
70.0	1.17		1.05	6.29	6.72
75.0	1.25		0.83	6.36	6.66
80.0	1.33		0.94	6.32	6.65
85.0	1.42		0.87	6.23	6.56
90.0	1.50		0.88	6.19	6.21
95.0	1.58		0.84	6.11	6.05
100.0	1.67		0.76	6.04	5.94
105.0	1.75		1.02	5.88	5.79
110.0	1.83		0.71	6.04	5.72
115.0	1.92		0.90	5.85	5.67
120.0	2.00		0.57	5.80	5.58
125.0	2.08		0.53	5.95	5.46
130.0	2.17		0.64	5.73	5.43

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	61	29	62
		Depth (m)	7.150	9.600	12.700
		Depth (ft)	23.458	31.496	41.666
135.0	2.25		0.65	5.93	5.34
140.0	2.33		0.82		5.38
145.0	2.42		1.00		4.98
150.0	2.50		0.83		5.19
155.0	2.58		0.84		4.92
160.0	2.67		0.61		4.94
165.0	2.75		0.74		4.94
170.0	2.83		0.90		4.76
175.0	2.92		0.73		4.86
180.0	3.00		1.00		4.73
185.0	3.08		0.63		4.59
190.0	3.17		0.90		4.61
195.0	3.25		1.11		4.68
200.0	3.33		0.97		4.44
205.0	3.42		0.93		4.43
210.0	3.50		0.95		4.43
215.0	3.58		1.08		4.31
220.0	3.67		1.00		4.47
225.0	3.75		1.12		4.21
230.0	3.83		1.15		4.40
235.0	3.92		0.93		4.27
240.0	4.00		1.08		4.14
245.0	4.08		1.08		4.06
250.0	4.17		1.07		4.16
255.0	4.25		1.21		4.28
260.0	4.33		1.15		4.11
265.0	4.42		1.18		3.95
270.0	4.50		1.15		4.05
275.0	4.58		1.19		4.20
280.0	4.67		1.11		3.86
285.0	4.75		1.34		3.99
290.0	4.83		1.28		3.88
295.0	4.92		1.18		4.00
300.0	5.00		1.27		3.84
305.0	5.08				3.79

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP7-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-7-1		
Location:	Bridgeton Landfill		
Sounding Date:	15-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	24
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	12.200		
Longest Trace - Depth (ft):	40.026		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 71 / 6.100 / 20.013	2 / 71 / 12.200 / 40.026
0.0	0.00		3.15	3.16
5.0	0.08		2.72	3.04
10.0	0.17		2.80	3.19
15.0	0.25		2.40	3.09
20.0	0.33		2.46	3.02
25.0	0.42		2.36	3.10
30.0	0.50		2.36	3.05
35.0	0.58		2.33	3.11
40.0	0.67		2.33	3.07
45.0	0.75		2.17	2.98
50.0	0.83		2.25	2.95
55.0	0.92		2.21	2.92
60.0	1.00		1.93	2.97
65.0	1.08		2.20	2.93
70.0	1.17		2.02	2.85
75.0	1.25		1.96	2.88
80.0	1.33		2.07	2.94
85.0	1.42		2.14	2.83
90.0	1.50		1.91	2.82
95.0	1.58		2.02	2.80
100.0	1.67		1.82	2.82
105.0	1.75		1.82	2.75
110.0	1.83		1.81	2.77
115.0	1.92		1.81	2.76
120.0	2.00		1.77	2.80
125.0	2.08		1.77	2.64
130.0	2.17		1.56	2.69

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	71	71
		Depth (m)	6.100	12.200
		Depth (ft)	20.013	40.026
135.0	2.25		1.72	2.66
140.0	2.33		1.73	2.70
145.0	2.42		1.73	2.68
150.0	2.50		1.61	2.72
155.0	2.58		1.55	2.58
160.0	2.67		1.51	2.54
165.0	2.75		1.59	2.57
170.0	2.83		1.47	2.56
175.0	2.92		1.59	2.47
180.0	3.00		1.43	2.60
185.0	3.08		1.45	2.40
190.0	3.17		1.47	2.52
195.0	3.25		1.49	2.50
200.0	3.33		1.47	2.47
205.0	3.42		1.38	2.39
210.0	3.50		1.30	2.42
215.0	3.58		1.40	2.46
220.0	3.67		1.25	2.42
225.0	3.75		1.36	2.34
230.0	3.83		1.41	2.43
235.0	3.92		1.30	2.38
240.0	4.00		1.33	2.40
245.0	4.08		1.28	2.46
250.0	4.17		1.34	2.42
255.0	4.25		1.32	2.32
260.0	4.33		1.28	2.30
265.0	4.42		1.33	2.36
270.0	4.50		1.30	2.24
275.0	4.58		1.12	2.22
280.0	4.67		1.26	2.33
285.0	4.75		1.12	2.25
290.0	4.83		1.24	2.22
295.0	4.92		1.15	2.29
300.0	5.00		1.18	2.24
305.0	5.08		1.17	2.19
310.0	5.17		1.21	2.22
315.0	5.25		1.14	2.23
320.0	5.33		1.25	2.23
325.0	5.42		1.11	2.26
330.0	5.50		1.03	2.21
335.0	5.58		1.11	2.16
340.0	5.67		1.08	2.17
345.0	5.75		1.06	2.18
350.0	5.83		1.19	2.15

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP7-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-7-2		
Location:	Bridgeton Landfill		
Sounding Date:	19-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	101
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	6.650		
Longest Trace - Depth (ft):	21.817		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 2.800 / 9.186	2 / 61 / 6.650 / 21.817
0.0	0.00		4.29	64.89
5.0	0.08		2.71	63.29
10.0	0.17		2.43	61.91
15.0	0.25		2.26	61.68
20.0	0.33		2.31	61.43
25.0	0.42		2.21	61.32
30.0	0.50		2.11	59.33
35.0	0.58		2.04	57.99
40.0	0.67		2.13	56.08
45.0	0.75		2.07	54.05
50.0	0.83		2.05	52.42
55.0	0.92		2.04	50.06
60.0	1.00		1.86	47.34
65.0	1.08		1.87	45.66
70.0	1.17		1.85	44.54
75.0	1.25		1.82	43.73
80.0	1.33		1.81	43.24
85.0	1.42		1.80	42.81
90.0	1.50		1.63	42.41
95.0	1.58		1.55	41.90
100.0	1.67		1.91	40.81
105.0	1.75		1.67	40.48
110.0	1.83		1.75	40.04
115.0	1.92		1.70	39.65
120.0	2.00		1.78	39.21
125.0	2.08		1.68	38.96
130.0	2.17		1.72	38.66

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	2.800	6.650
		Depth (ft)	9.186	21.817
135.0	2.25		1.65	37.95
140.0	2.33		1.73	37.40
145.0	2.42		1.59	36.74
150.0	2.50		1.71	36.24
155.0	2.58		1.63	35.78
160.0	2.67		1.44	35.23
165.0	2.75		1.70	34.63
170.0	2.83		1.47	33.92
175.0	2.92		1.61	33.50
180.0	3.00		1.53	33.02
185.0	3.08		1.45	32.95
190.0	3.17		1.43	32.30
195.0	3.25		1.53	32.03
200.0	3.33		1.48	31.91
205.0	3.42		1.40	31.79
210.0	3.50		1.37	31.39
215.0	3.58		1.54	31.21
220.0	3.67		1.38	30.76
225.0	3.75		1.54	30.46
230.0	3.83		1.48	30.19
235.0	3.92		1.32	30.07
240.0	4.00		1.49	29.76
245.0	4.08		1.38	29.57
250.0	4.17		1.39	29.19
255.0	4.25		1.30	29.16
260.0	4.33		1.50	28.87
265.0	4.42		1.28	28.73
270.0	4.50		1.33	28.55
275.0	4.58		1.40	28.18
280.0	4.67		1.38	28.29
285.0	4.75		1.35	28.12
290.0	4.83		1.39	27.88
295.0	4.92		1.39	27.86
300.0	5.00		1.26	27.74

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP7-3.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-7-3		
Location:	Bridgeton Landfill		
Sounding Date:	16-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	33
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	16.600		
Longest Trace - Depth (ft):	54.461		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 5.350 / 17.552	2 / 61 / 16.600 / 54.461
0.0	0.00		8.25	9.88
5.0	0.08		10.86	9.99
10.0	0.17		11.45	9.93
15.0	0.25		11.50	9.84
20.0	0.33		11.68	9.82
25.0	0.42		11.77	9.72
30.0	0.50		11.99	9.66
35.0	0.58		12.09	9.64
40.0	0.67		12.38	9.47
45.0	0.75		12.39	9.40
50.0	0.83		12.62	9.42
55.0	0.92		12.68	9.34
60.0	1.00		12.81	9.31
65.0	1.08		13.05	9.28
70.0	1.17		13.01	9.17
75.0	1.25		13.21	9.10
80.0	1.33		13.33	9.05
85.0	1.42		13.39	9.01
90.0	1.50		13.43	8.93
95.0	1.58		13.55	8.99
100.0	1.67		13.68	8.91
105.0	1.75		13.72	8.78
110.0	1.83		13.95	8.94
115.0	1.92		13.91	8.74
120.0	2.00		13.96	8.64
125.0	2.08		14.16	8.61
130.0	2.17		14.12	8.59

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	5.350	16.600
		Depth (ft)	17.552	54.461
135.0	2.25		14.15	8.50
140.0	2.33		14.25	8.44
145.0	2.42		14.15	8.42
150.0	2.50		14.34	8.41
155.0	2.58		14.37	8.32
160.0	2.67		14.43	8.26
165.0	2.75		14.56	8.21
170.0	2.83		14.57	8.18
175.0	2.92		14.57	8.16
180.0	3.00		14.58	8.15
185.0	3.08		14.65	8.05
190.0	3.17		14.67	8.02
195.0	3.25		14.62	8.01
200.0	3.33		14.74	7.90
205.0	3.42		14.72	7.93
210.0	3.50		14.84	7.84
215.0	3.58		14.79	7.83
220.0	3.67		14.76	7.76
225.0	3.75		14.95	7.70
230.0	3.83		14.94	7.68
235.0	3.92		14.99	7.67
240.0	4.00		15.00	7.71
245.0	4.08		15.12	7.56
250.0	4.17		14.98	7.62
255.0	4.25		15.08	7.58
260.0	4.33		14.86	7.46
265.0	4.42		15.07	7.48
270.0	4.50		15.00	7.45
275.0	4.58		14.94	7.42
280.0	4.67		15.00	7.50
285.0	4.75		15.00	7.41
290.0	4.83		15.02	7.41
295.0	4.92		14.91	7.39
300.0	5.00		14.94	7.28

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP8-1.PPD
Job Number:	13-53075
Sounding ID:	GCPT-8-1
Location:	Bridgeton Landfill
Sounding Date:	15-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	2 Of 30
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	2
Longest Trace - Points:	91
Longest Trace - Depth (m):	14.700
Longest Trace - Depth (ft):	48.228
Longest Trace - Duration (s):	450.0
Longest Trace - Duration (min):	7.50
Longest Trace - Duration (hrs):	0.125
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.200 / 20.341	2 / 91 / 14.700 / 48.228
0.0	0.00		0.55	18.39
5.0	0.08		0.32	18.07
10.0	0.17		0.15	17.87
15.0	0.25		0.10	17.62
20.0	0.33		0.09	17.39
25.0	0.42		0.05	17.21
30.0	0.50		-0.09	17.06
35.0	0.58		-0.11	16.92
40.0	0.67		-0.02	16.78
45.0	0.75		0.01	16.62
50.0	0.83		-0.21	16.51
55.0	0.92		-0.19	16.48
60.0	1.00		-0.22	16.20
65.0	1.08		-0.20	16.14
70.0	1.17		-0.23	16.04
75.0	1.25		-0.20	15.80
80.0	1.33		-0.18	15.75
85.0	1.42		-0.08	15.71
90.0	1.50		-0.12	15.54
95.0	1.58		-0.24	15.49
100.0	1.67		-0.16	15.33
105.0	1.75		-0.18	15.34
110.0	1.83		-0.23	15.28
115.0	1.92		-0.12	15.15
120.0	2.00		-0.14	15.13
125.0	2.08		-0.20	15.02
130.0	2.17		-0.10	14.98

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	91
		Depth (m)	6.200	14.700
		Depth (ft)	20.341	48.228
135.0	2.25		-0.19	14.85
140.0	2.33		-0.09	14.71
145.0	2.42		-0.14	14.69
150.0	2.50		-0.24	14.64
155.0	2.58		-0.01	14.62
160.0	2.67		-0.09	14.52
165.0	2.75		-0.12	14.47
170.0	2.83		-0.11	14.36
175.0	2.92		-0.08	14.34
180.0	3.00		-0.10	14.43
185.0	3.08		-0.03	14.21
190.0	3.17		-0.04	14.20
195.0	3.25		-0.02	14.16
200.0	3.33		0.03	14.05
205.0	3.42		-0.03	14.00
210.0	3.50		-0.06	14.00
215.0	3.58		-0.02	13.89
220.0	3.67		-0.00	13.80
225.0	3.75		0.03	13.78
230.0	3.83		0.01	13.83
235.0	3.92		0.06	13.70
240.0	4.00		0.04	13.70
245.0	4.08		0.08	13.59
250.0	4.17		0.08	13.51
255.0	4.25		0.03	13.53
260.0	4.33		0.07	13.44
265.0	4.42		0.06	13.45
270.0	4.50		0.20	13.30
275.0	4.58		0.17	13.30
280.0	4.67		0.17	13.25
285.0	4.75		0.18	13.29
290.0	4.83		0.18	13.22
295.0	4.92		0.21	13.15
300.0	5.00		0.11	13.14
305.0	5.08			13.10
310.0	5.17			12.97
315.0	5.25			12.96
320.0	5.33			12.92
325.0	5.42			12.85
330.0	5.50			12.81
335.0	5.58			12.81
340.0	5.67			12.68
345.0	5.75			12.69
350.0	5.83			12.82
355.0	5.92			12.61
360.0	6.00			12.65
365.0	6.08			12.66
370.0	6.17			12.54
375.0	6.25			12.52
380.0	6.33			12.52
385.0	6.42			12.35
390.0	6.50			12.39
395.0	6.58			12.50

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	91
		Depth (m)	6.200	14.700
		Depth (ft)	20.341	48.228
400.0	6.67			12.38
405.0	6.75			12.36
410.0	6.83			12.34
415.0	6.92			12.25
420.0	7.00			12.25
425.0	7.08			12.24
430.0	7.17			12.25
435.0	7.25			12.11
440.0	7.33			12.08
445.0	7.42			12.10
450.0	7.50			12.14

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP9-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-9-1		
Location:	Bridgeton Landfill		
Sounding Date:	15-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	31
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	13.750		
Longest Trace - Depth (ft):	45.111		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	71
		Depth (m)	6.100	13.750
		Depth (ft)	20.013	45.111
0.0	0.00		0.77	4.82
5.0	0.08		0.98	4.80
10.0	0.17		0.75	4.93
15.0	0.25		0.65	4.85
20.0	0.33		0.43	4.93
25.0	0.42		0.46	4.97
30.0	0.50		0.28	4.81
35.0	0.58		0.38	4.82
40.0	0.67		0.35	4.78
45.0	0.75		0.36	4.75
50.0	0.83		0.34	4.80
55.0	0.92		0.18	4.86
60.0	1.00		0.20	4.80
65.0	1.08		0.25	4.64
70.0	1.17		0.16	4.70
75.0	1.25		0.19	4.58
80.0	1.33		0.20	4.65
85.0	1.42		0.29	4.67
90.0	1.50		0.18	4.61
95.0	1.58		0.21	4.58
100.0	1.67		0.34	4.57
105.0	1.75		0.35	4.49
110.0	1.83		0.33	4.46
115.0	1.92		0.50	4.47
120.0	2.00		0.44	4.42
125.0	2.08		0.40	4.40
130.0	2.17		0.43	4.34

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	71
		Depth (m)	6.100	13.750
		Depth (ft)	20.013	45.111
135.0	2.25		0.53	4.36
140.0	2.33		0.34	4.32
145.0	2.42		0.36	4.27
150.0	2.50		0.49	4.23
155.0	2.58		0.32	4.21
160.0	2.67		0.25	4.20
165.0	2.75		0.33	4.17
170.0	2.83		0.28	4.18
175.0	2.92		0.40	4.12
180.0	3.00		0.28	4.14
185.0	3.08		0.43	4.09
190.0	3.17		0.51	4.05
195.0	3.25		0.38	4.12
200.0	3.33		0.45	3.94
205.0	3.42		0.37	4.01
210.0	3.50		0.46	3.90
215.0	3.58		0.36	3.99
220.0	3.67		0.42	3.90
225.0	3.75		0.41	3.88
230.0	3.83		0.31	3.91
235.0	3.92		0.47	3.80
240.0	4.00		0.39	3.88
245.0	4.08		0.40	3.87
250.0	4.17		0.49	3.85
255.0	4.25		0.31	3.86
260.0	4.33		0.37	3.79
265.0	4.42		0.42	3.83
270.0	4.50		0.33	3.75
275.0	4.58		0.40	3.83
280.0	4.67		0.29	3.77
285.0	4.75		0.61	3.70
290.0	4.83		0.38	3.74
295.0	4.92		0.48	3.69
300.0	5.00		0.32	3.67
305.0	5.08			3.77
310.0	5.17			3.65
315.0	5.25			3.59
320.0	5.33			3.63
325.0	5.42			3.66
330.0	5.50			3.56
335.0	5.58			3.64
340.0	5.67			3.54
345.0	5.75			3.60
350.0	5.83			3.59

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP9-2.PPD
Job Number:	13-53075
Sounding ID:	GCPT-9-2
Location:	Bridgeton Landfill
Sounding Date:	19-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	2 Of 61
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	2
Longest Trace - Points:	61
Longest Trace - Depth (m):	15.250
Longest Trace - Depth (ft):	50.032
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 2.300 / 7.546	2 / 61 / 15.250 / 50.032
0.0	0.00		30.86	6.03
5.0	0.08		29.64	5.85
10.0	0.17		28.85	5.86
15.0	0.25		28.40	5.87
20.0	0.33		27.99	5.94
25.0	0.42		27.64	5.98
30.0	0.50		27.22	5.89
35.0	0.58		26.87	5.94
40.0	0.67		26.72	6.03
45.0	0.75		26.55	6.00
50.0	0.83		26.22	6.00
55.0	0.92		26.10	6.03
60.0	1.00		25.87	5.94
65.0	1.08		25.73	5.99
70.0	1.17		25.49	5.90
75.0	1.25		25.44	5.95
80.0	1.33		25.20	6.02
85.0	1.42		25.00	5.94
90.0	1.50		24.85	5.85
95.0	1.58		24.70	5.86
100.0	1.67		24.62	5.85
105.0	1.75		24.66	5.89
110.0	1.83		24.46	5.76
115.0	1.92		24.29	5.79
120.0	2.00		24.20	5.80
125.0	2.08		24.19	5.69
130.0	2.17		24.06	5.72

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	2.300	15.250
		Depth (ft)	7.546	50.032
135.0	2.25		23.89	5.74
140.0	2.33		23.84	5.76
145.0	2.42		23.74	5.66
150.0	2.50		23.58	5.71
155.0	2.58		23.57	5.67
160.0	2.67		23.45	5.68
165.0	2.75		23.26	5.66
170.0	2.83		23.19	5.67
175.0	2.92		23.18	5.58
180.0	3.00		23.11	5.59
185.0	3.08		23.12	5.66
190.0	3.17		22.90	5.60
195.0	3.25		22.75	5.54
200.0	3.33		22.87	5.57
205.0	3.42		22.65	5.45
210.0	3.50		22.63	5.56
215.0	3.58		22.61	5.52
220.0	3.67		22.38	5.42
225.0	3.75		22.46	5.60
230.0	3.83		22.30	5.46
235.0	3.92		22.35	5.53
240.0	4.00		22.22	5.53
245.0	4.08		22.21	5.51
250.0	4.17		22.07	5.44
255.0	4.25		22.07	5.45
260.0	4.33		22.00	5.48
265.0	4.42		21.93	5.44
270.0	4.50		21.87	5.46
275.0	4.58		21.82	5.41
280.0	4.67		21.74	5.49
285.0	4.75		21.66	5.35
290.0	4.83		21.59	5.43
295.0	4.92		21.48	5.37
300.0	5.00		21.60	5.44

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP9-3A.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-9-3A		
Location:	Bridgeton Landfill		
Sounding Date:	15-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	56
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	81		
Longest Trace - Depth (m):	15.250		
Longest Trace - Depth (ft):	50.032		
Longest Trace - Duration (s):	400.0		
Longest Trace - Duration (min):	6.67		
Longest Trace - Duration (hrs):	0.111		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.100 / 20.013	2 / 81 / 15.250 / 50.032
0.0	0.00		0.13	2.62
5.0	0.08		-0.08	2.54
10.0	0.17		0.06	2.45
15.0	0.25		0.21	2.32
20.0	0.33		0.07	2.26
25.0	0.42		-0.08	2.25
30.0	0.50		0.27	2.21
35.0	0.58		0.22	2.22
40.0	0.67		0.36	2.29
45.0	0.75		0.34	2.22
50.0	0.83		0.31	2.26
55.0	0.92		0.34	2.26
60.0	1.00		0.42	2.20
65.0	1.08		0.45	2.21
70.0	1.17		0.30	2.05
75.0	1.25		0.44	2.08
80.0	1.33		0.44	2.17
85.0	1.42		0.48	2.08
90.0	1.50		0.38	2.05
95.0	1.58		0.41	2.10
100.0	1.67		0.51	2.02
105.0	1.75		0.48	1.94
110.0	1.83		0.43	2.05
115.0	1.92		0.53	2.00
120.0	2.00		0.60	1.94
125.0	2.08		0.45	1.90
130.0	2.17		0.54	1.92

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	81
		Depth (m)	6.100	15.250
		Depth (ft)	20.013	50.032
0.0	0.00		0.13	2.62
135.0	2.25		0.50	1.97
140.0	2.33		0.58	1.93
145.0	2.42		0.47	1.89
150.0	2.50		0.54	1.89
155.0	2.58		0.52	1.86
160.0	2.67		0.53	1.72
165.0	2.75		0.50	1.77
170.0	2.83		0.37	1.68
175.0	2.92		0.66	1.73
180.0	3.00		0.52	1.69
185.0	3.08		0.65	1.70
190.0	3.17		0.66	1.70
195.0	3.25		0.50	1.62
200.0	3.33		0.63	1.61
205.0	3.42		0.62	1.60
210.0	3.50		0.51	1.64
215.0	3.58		0.48	1.69
220.0	3.67		0.51	1.55
225.0	3.75		0.60	1.60
230.0	3.83		0.58	1.59
235.0	3.92		0.50	1.54
240.0	4.00		0.55	1.58
245.0	4.08		0.56	1.54
250.0	4.17		0.53	1.71
255.0	4.25		0.67	1.62
260.0	4.33		0.57	1.62
265.0	4.42		0.61	1.53
270.0	4.50		0.65	1.50
275.0	4.58		0.49	1.57
280.0	4.67		0.63	1.54
285.0	4.75		0.69	1.44
290.0	4.83		0.59	1.60
295.0	4.92		0.70	1.49
300.0	5.00		0.76	1.45
305.0	5.08			1.54
310.0	5.17			1.50
315.0	5.25			1.48
320.0	5.33			1.50
325.0	5.42			1.43
330.0	5.50			1.44
335.0	5.58			1.38
340.0	5.67			1.48
345.0	5.75			1.43
350.0	5.83			1.46
355.0	5.92			1.47
360.0	6.00			1.45
365.0	6.08			1.42
370.0	6.17			1.40
375.0	6.25			1.40
380.0	6.33			1.38
385.0	6.42			1.50
390.0	6.50			1.47

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	81
		Depth (m)	6.100	15.250
		Depth (ft)	20.013	50.032
0.0	0.00		0.13	2.62
395.0	6.58			1.39
400.0	6.67			1.47

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP9-4.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-9-4		
Location:	Bridgeton Landfill		
Sounding Date:	05-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	43
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	16.050		
Longest Trace - Depth (ft):	52.657		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	8.300	16.050
		Depth (ft)	27.231	52.657
0.0	0.00		4.90	7.32
5.0	0.08		5.28	7.44
10.0	0.17		4.99	7.47
15.0	0.25		5.09	7.29
20.0	0.33		4.82	7.24
25.0	0.42		4.64	7.65
30.0	0.50		4.48	7.43
35.0	0.58		4.61	7.59
40.0	0.67		4.43	7.33
45.0	0.75		4.51	7.19
50.0	0.83		4.37	7.20
55.0	0.92		4.24	7.29
60.0	1.00		4.14	7.39
65.0	1.08		4.09	7.18
70.0	1.17		4.20	6.98
75.0	1.25		4.10	7.31
80.0	1.33		3.82	6.95
85.0	1.42		3.91	7.23
90.0	1.50		3.99	7.08
95.0	1.58		3.74	6.91
100.0	1.67		3.71	6.88
105.0	1.75		3.83	6.89
110.0	1.83		3.73	6.82
115.0	1.92		3.68	6.89
120.0	2.00		3.96	6.80
125.0	2.08		3.63	6.96
130.0	2.17		3.74	6.58

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	8.300	16.050
		Depth (ft)	27.231	52.657
135.0	2.25		3.48	6.72
140.0	2.33		3.52	6.70
145.0	2.42		3.60	6.49
150.0	2.50		3.51	6.47
155.0	2.58		3.39	6.27
160.0	2.67		3.61	6.63
165.0	2.75		3.45	6.51
170.0	2.83		3.46	6.23
175.0	2.92		3.48	6.39
180.0	3.00		3.34	6.37
185.0	3.08		3.34	6.16
190.0	3.17		3.03	6.15
195.0	3.25		3.29	6.44
200.0	3.33		3.10	6.50
205.0	3.42		2.98	6.30
210.0	3.50		3.40	6.41
215.0	3.58		3.16	6.29
220.0	3.67		3.19	6.41
225.0	3.75		3.09	6.15
230.0	3.83		3.12	6.45
235.0	3.92		3.05	6.43
240.0	4.00		3.10	6.09
245.0	4.08		3.13	6.30
250.0	4.17		3.14	6.10
255.0	4.25		2.97	6.43
260.0	4.33		3.06	6.38
265.0	4.42		2.98	6.34
270.0	4.50		3.03	6.24
275.0	4.58		2.89	6.27
280.0	4.67		2.87	6.06
285.0	4.75		2.85	6.21
290.0	4.83		2.98	6.32
295.0	4.92		2.87	6.18
300.0	5.00		2.92	6.09

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP10-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-10-1		
Location:	Bridgeton Landfill		
Sounding Date:	19-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	79
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	31		
Longest Trace - Depth (m):	5.350		
Longest Trace - Depth (ft):	17.552		
Longest Trace - Duration (s):	150.0		
Longest Trace - Duration (min):	2.50		
Longest Trace - Duration (hrs):	0.042		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 31 / 5.350 / 17.552
0.0	0.00		12.64
5.0	0.08		5.65
10.0	0.17		4.73
15.0	0.25		4.53
20.0	0.33		4.43
25.0	0.42		4.08
30.0	0.50		3.87
35.0	0.58		3.76
40.0	0.67		3.62
45.0	0.75		3.56
50.0	0.83		3.35
55.0	0.92		3.30
60.0	1.00		3.25
65.0	1.08		3.14
70.0	1.17		3.07
75.0	1.25		3.01
80.0	1.33		2.88
85.0	1.42		2.77
90.0	1.50		2.63
95.0	1.58		2.59
100.0	1.67		2.55
105.0	1.75		2.58
110.0	1.83		2.65
115.0	1.92		2.54
120.0	2.00		2.45
125.0	2.08		2.46
130.0	2.17		2.52

Time (s)	Time (min)	Trace No.	1
		Trace Points	31
		Depth (m)	5.350
		Depth (ft)	17.552
135.0	2.25		2.46
140.0	2.33		2.58
145.0	2.42		2.56
150.0	2.50		2.62

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP10-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-10-2		
Location:	Bridgeton Landfill		
Sounding Date:	20-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	63
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	16.200		
Longest Trace - Depth (ft):	53.149		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.700 / 21.981	2 / 61 / 16.200 / 53.149
0.0	0.00		1.69	2.18
5.0	0.08		1.43	2.20
10.0	0.17		1.24	2.11
15.0	0.25		1.24	2.23
20.0	0.33		1.05	2.20
25.0	0.42		0.93	2.16
30.0	0.50		1.00	2.13
35.0	0.58		1.05	2.11
40.0	0.67		0.88	2.16
45.0	0.75		0.84	2.09
50.0	0.83		0.81	2.14
55.0	0.92		0.70	2.10
60.0	1.00		0.65	2.22
65.0	1.08		0.70	2.20
70.0	1.17		0.67	2.16
75.0	1.25		0.73	2.18
80.0	1.33		0.64	2.17
85.0	1.42		0.55	2.02
90.0	1.50		0.65	2.16
95.0	1.58		0.71	2.22
100.0	1.67		0.63	2.10
105.0	1.75		0.57	2.15
110.0	1.83		0.61	2.23
115.0	1.92		0.75	2.14
120.0	2.00		0.68	2.25
125.0	2.08		0.62	2.18
130.0	2.17		0.62	2.17

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.700	16.200
		Depth (ft)	21.981	53.149
135.0	2.25		0.74	2.04
140.0	2.33		0.71	2.03
145.0	2.42		0.59	2.08
150.0	2.50		0.56	1.96
155.0	2.58		0.52	2.07
160.0	2.67		0.59	2.04
165.0	2.75		0.56	1.99
170.0	2.83		0.47	2.07
175.0	2.92		0.55	2.06
180.0	3.00		0.67	2.06
185.0	3.08		0.55	2.01
190.0	3.17		0.58	1.99
195.0	3.25		0.51	2.04
200.0	3.33		0.50	1.86
205.0	3.42		0.53	2.01
210.0	3.50		0.57	2.00
215.0	3.58		0.46	1.93
220.0	3.67		0.50	2.01
225.0	3.75		0.56	1.80
230.0	3.83		0.48	2.00
235.0	3.92		0.47	1.97
240.0	4.00		0.49	1.97
245.0	4.08		0.61	1.93
250.0	4.17		0.52	1.87
255.0	4.25		0.51	2.00
260.0	4.33		0.52	1.99
265.0	4.42		0.50	1.91
270.0	4.50		0.45	1.91
275.0	4.58		0.41	1.99
280.0	4.67		0.58	1.93
285.0	4.75		0.48	1.88
290.0	4.83		0.53	2.02
295.0	4.92		0.53	1.87
300.0	5.00		0.52	1.92

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP10-4A.PPD
Job Number:	13-53075
Sounding ID:	GCPT-10-4A
Location:	Bridgeton Landfill
Sounding Date:	18-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 35
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	122
Longest Trace - Depth (m):	11.650
Longest Trace - Depth (ft):	38.221
Longest Trace - Duration (s):	605.0
Longest Trace - Duration (min):	10.08
Longest Trace - Duration (hrs):	0.168
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 122 / 11.650 / 38.221
0.0	0.00		8.22
5.0	0.08		8.86
10.0	0.17		8.86
15.0	0.25		9.07
20.0	0.33		9.22
25.0	0.42		9.27
30.0	0.50		9.38
35.0	0.58		9.47
40.0	0.67		9.63
45.0	0.75		9.71
50.0	0.83		9.75
55.0	0.92		9.88
60.0	1.00		9.97
65.0	1.08		9.98
70.0	1.17		10.04
75.0	1.25		10.15
80.0	1.33		10.17
85.0	1.42		10.22
90.0	1.50		10.37
95.0	1.58		10.34
100.0	1.67		10.37
105.0	1.75		10.30
110.0	1.83		10.40
115.0	1.92		10.42
120.0	2.00		10.36
125.0	2.08		10.52
130.0	2.17		10.36

Time (s)	Time (min)	Trace No.	1
		Trace Points	122
		Depth (m)	11.650
		Depth (ft)	38.221
135.0	2.25		10.42
140.0	2.33		10.50
145.0	2.42		10.47
150.0	2.50		10.48
155.0	2.58		10.49
160.0	2.67		10.54
165.0	2.75		10.55
170.0	2.83		10.53
175.0	2.92		10.56
180.0	3.00		10.49
185.0	3.08		10.53
190.0	3.17		10.60
195.0	3.25		10.64
200.0	3.33		10.58
205.0	3.42		10.58
210.0	3.50		10.59
215.0	3.58		10.63
220.0	3.67		10.67
225.0	3.75		10.62
230.0	3.83		10.52
235.0	3.92		10.49
240.0	4.00		10.64
245.0	4.08		10.51
250.0	4.17		10.63
255.0	4.25		10.68
260.0	4.33		10.67
265.0	4.42		10.60
270.0	4.50		10.69
275.0	4.58		10.57
280.0	4.67		10.58
285.0	4.75		10.59
290.0	4.83		10.61
295.0	4.92		10.60
300.0	5.00		10.60
305.0	5.08		10.71
310.0	5.17		10.63
315.0	5.25		10.64
320.0	5.33		10.59
325.0	5.42		10.61
330.0	5.50		10.66
335.0	5.58		10.51
340.0	5.67		10.61
345.0	5.75		10.58
350.0	5.83		10.73
355.0	5.92		10.58
360.0	6.00		10.53
365.0	6.08		10.53
370.0	6.17		10.56
375.0	6.25		10.55
380.0	6.33		10.53
385.0	6.42		10.55
390.0	6.50		10.67
395.0	6.58		10.63

Time (s)	Time (min)	Trace No.	1
		Trace Points	122
		Depth (m)	11.650
		Depth (ft)	38.221
400.0	6.67		10.61
405.0	6.75		10.64
410.0	6.83		10.58
415.0	6.92		10.61
420.0	7.00		10.58
425.0	7.08		10.60
430.0	7.17		10.51
435.0	7.25		10.63
440.0	7.33		10.59
445.0	7.42		10.56
450.0	7.50		10.55
455.0	7.58		10.51
460.0	7.67		10.49
465.0	7.75		10.53
470.0	7.83		10.52
475.0	7.92		10.49
480.0	8.00		10.53
485.0	8.08		10.53
490.0	8.17		10.45
495.0	8.25		10.51
500.0	8.33		10.49
505.0	8.42		10.58
510.0	8.50		10.42
515.0	8.58		10.56
520.0	8.67		10.47
525.0	8.75		10.46
530.0	8.83		10.52
535.0	8.92		10.58
540.0	9.00		10.63
545.0	9.08		10.56
550.0	9.17		10.56
555.0	9.25		10.50
560.0	9.33		10.63
565.0	9.42		10.62
570.0	9.50		10.58
575.0	9.58		10.56
580.0	9.67		10.62
585.0	9.75		10.58
590.0	9.83		10.57
595.0	9.92		10.66
600.0	10.00		10.63
605.0	10.08		10.63

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP11-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-11-1		
Location:	Bridgeton Landfill		
Sounding Date:	21-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	111
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	14.000		
Longest Trace - Depth (ft):	45.931		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	41	61
		Depth (m)	4.000	14.000
		Depth (ft)	13.123	45.931
0.0	0.00		5.95	11.37
5.0	0.08		6.91	10.87
10.0	0.17		6.75	10.59
15.0	0.25		6.10	10.42
20.0	0.33		5.23	10.26
25.0	0.42		4.94	10.10
30.0	0.50		4.34	10.00
35.0	0.58		3.79	9.81
40.0	0.67		3.30	9.74
45.0	0.75		2.98	9.61
50.0	0.83		2.76	9.54
55.0	0.92		2.63	9.40
60.0	1.00		2.18	9.33
65.0	1.08		2.19	9.32
70.0	1.17		1.98	9.12
75.0	1.25		1.89	9.10
80.0	1.33		1.86	8.94
85.0	1.42		1.73	8.96
90.0	1.50		1.47	9.17
95.0	1.58		1.53	8.81
100.0	1.67		1.40	8.77
105.0	1.75		1.06	8.54
110.0	1.83		1.23	8.69
115.0	1.92		1.22	8.58
120.0	2.00		1.17	8.44
125.0	2.08		1.05	8.46
130.0	2.17		0.96	8.45

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	41	61
		Depth (m)	4.000	14.000
		Depth (ft)	13.123	45.931
135.0	2.25		1.10	8.29
140.0	2.33		0.71	8.30
145.0	2.42		0.67	8.22
150.0	2.50		0.73	8.23
155.0	2.58		0.65	8.21
160.0	2.67		0.58	8.09
165.0	2.75		0.60	8.10
170.0	2.83		0.58	8.03
175.0	2.92		0.51	8.02
180.0	3.00		0.63	8.02
185.0	3.08		0.60	7.91
190.0	3.17		0.40	7.92
195.0	3.25		0.49	7.89
200.0	3.33		0.49	7.85
205.0	3.42			7.93
210.0	3.50			7.85
215.0	3.58			7.76
220.0	3.67			7.70
225.0	3.75			7.71
230.0	3.83			7.61
235.0	3.92			7.72
240.0	4.00			7.63
245.0	4.08			7.56
250.0	4.17			7.55
255.0	4.25			7.59
260.0	4.33			7.56
265.0	4.42			7.48
270.0	4.50			7.46
275.0	4.58			7.42
280.0	4.67			7.57
285.0	4.75			7.36
290.0	4.83			7.38
295.0	4.92			7.37
300.0	5.00			7.27

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP11-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-11-2		
Location:	Bridgeton Landfill		
Sounding Date:	20-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	57
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	6.250		
Longest Trace - Depth (ft):	20.505		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	3.050	6.250
		Depth (ft)	10.006	20.505
0.0	0.00		8.49	15.92
5.0	0.08		6.47	16.63
10.0	0.17		5.36	16.93
15.0	0.25		4.96	17.36
20.0	0.33		4.73	17.63
25.0	0.42		4.35	17.87
30.0	0.50		3.73	17.93
35.0	0.58		3.54	18.24
40.0	0.67		3.51	18.52
45.0	0.75		3.45	18.55
50.0	0.83		3.31	18.55
55.0	0.92		3.29	18.79
60.0	1.00		3.27	18.88
65.0	1.08		3.16	19.07
70.0	1.17		3.02	19.11
75.0	1.25		3.11	19.40
80.0	1.33		3.06	19.50
85.0	1.42		3.08	19.62
90.0	1.50		3.00	19.81
95.0	1.58		2.96	19.87
100.0	1.67		2.97	20.00
105.0	1.75		2.95	20.14
110.0	1.83		3.10	20.20
115.0	1.92		2.87	20.26
120.0	2.00		2.98	20.32
125.0	2.08		2.90	20.54
130.0	2.17		2.88	20.59

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	3.050	6.250
		Depth (ft)	10.006	20.505
135.0	2.25		2.88	20.70
140.0	2.33		2.88	20.77
145.0	2.42		2.97	20.87
150.0	2.50		3.00	20.92
155.0	2.58		2.94	21.01
160.0	2.67		2.85	21.01
165.0	2.75		2.81	21.11
170.0	2.83		2.90	21.13
175.0	2.92		2.84	21.24
180.0	3.00		2.97	21.27
185.0	3.08		2.76	21.25
190.0	3.17		2.78	21.24
195.0	3.25		2.90	21.33
200.0	3.33		2.94	21.44
205.0	3.42		2.90	21.38
210.0	3.50		2.89	21.48
215.0	3.58		2.82	21.56
220.0	3.67		2.92	21.50
225.0	3.75		2.94	21.70
230.0	3.83		2.79	21.66
235.0	3.92		2.81	21.67
240.0	4.00		2.96	21.60
245.0	4.08		2.78	21.62
250.0	4.17		2.84	21.63
255.0	4.25		2.91	21.62
260.0	4.33		2.87	21.55
265.0	4.42		2.91	21.61
270.0	4.50		2.85	21.70
275.0	4.58		2.78	21.64
280.0	4.67		2.82	21.49
285.0	4.75		2.80	21.62
290.0	4.83		2.97	21.60
295.0	4.92		2.76	21.55
300.0	5.00		2.75	21.34

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP11-3.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-11-3		
Location:	Bridgeton Landfill		
Sounding Date:	20-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	57
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	82		
Longest Trace - Depth (m):	16.300		
Longest Trace - Depth (ft):	53.477		
Longest Trace - Duration (s):	405.0		
Longest Trace - Duration (min):	6.75		
Longest Trace - Duration (hrs):	0.113		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	82
		Depth (m)	3.950	16.300
		Depth (ft)	12.959	53.477
0.0	0.00		10.49	7.58
5.0	0.08		10.60	7.60
10.0	0.17		10.64	7.77
15.0	0.25		10.63	7.57
20.0	0.33		10.69	7.64
25.0	0.42		10.63	7.61
30.0	0.50		10.64	7.58
35.0	0.58		10.55	7.51
40.0	0.67		10.67	7.51
45.0	0.75		10.64	7.49
50.0	0.83		10.77	7.49
55.0	0.92		10.71	7.52
60.0	1.00		10.78	7.47
65.0	1.08		10.82	7.49
70.0	1.17		10.69	7.50
75.0	1.25		10.89	7.47
80.0	1.33		10.78	7.51
85.0	1.42		10.68	7.37
90.0	1.50		10.67	7.42
95.0	1.58		10.84	7.33
100.0	1.67		10.75	7.46
105.0	1.75		10.86	7.43
110.0	1.83		10.82	7.36
115.0	1.92		10.78	7.33
120.0	2.00		10.87	7.27
125.0	2.08		10.91	7.24
130.0	2.17		10.81	7.22

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	82
		Depth (m)	3.950	16.300
		Depth (ft)	12.959	53.477
135.0	2.25		10.82	7.23
140.0	2.33		10.86	7.11
145.0	2.42		10.73	7.14
150.0	2.50		10.80	7.17
155.0	2.58		10.83	7.10
160.0	2.67		10.82	7.12
165.0	2.75		10.92	7.00
170.0	2.83		10.81	7.04
175.0	2.92		10.82	6.96
180.0	3.00		10.95	7.02
185.0	3.08		10.89	6.94
190.0	3.17		10.83	6.87
195.0	3.25		10.83	6.96
200.0	3.33		10.84	6.90
205.0	3.42		10.88	6.96
210.0	3.50		10.88	6.80
215.0	3.58		10.77	6.90
220.0	3.67		10.71	6.83
225.0	3.75		10.77	6.79
230.0	3.83		10.99	6.77
235.0	3.92		10.79	6.73
240.0	4.00		10.86	6.75
245.0	4.08		10.93	6.64
250.0	4.17		10.96	6.76
255.0	4.25		10.84	6.75
260.0	4.33		11.04	6.61
265.0	4.42		10.95	6.54
270.0	4.50		11.06	6.60
275.0	4.58		10.95	6.50
280.0	4.67		10.86	6.61
285.0	4.75		10.87	6.56
290.0	4.83		11.04	6.52
295.0	4.92		11.07	6.54
300.0	5.00		10.95	6.46
305.0	5.08			6.50
310.0	5.17			6.46
315.0	5.25			6.46
320.0	5.33			6.50
325.0	5.42			6.39
330.0	5.50			6.33
335.0	5.58			6.38
340.0	5.67			6.36
345.0	5.75			6.40
350.0	5.83			6.40
355.0	5.92			6.31
360.0	6.00			6.30
365.0	6.08			6.33
370.0	6.17			6.25
375.0	6.25			6.28
380.0	6.33			6.32
385.0	6.42			6.25
390.0	6.50			6.21
395.0	6.58			6.28

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	82
		Depth (m)	3.950	16.300
		Depth (ft)	12.959	53.477
400.0	6.67			6.12
405.0	6.75			6.29

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP12-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-12-1		
Location:	Bridgeton Landfill		
Sounding Date:	20-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	99
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	9.450		
Longest Trace - Depth (ft):	31.004		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 4.900 / 16.076	2 / 61 / 9.450 / 31.004
0.0	0.00		6.31	2.38
5.0	0.08		4.88	2.46
10.0	0.17		4.87	2.70
15.0	0.25		4.78	2.78
20.0	0.33		4.95	2.74
25.0	0.42		5.12	2.76
30.0	0.50		5.16	2.78
35.0	0.58		5.43	2.87
40.0	0.67		5.38	2.85
45.0	0.75		5.62	2.85
50.0	0.83		5.80	2.89
55.0	0.92		6.10	2.86
60.0	1.00		6.13	2.78
65.0	1.08		6.28	2.88
70.0	1.17		6.55	2.93
75.0	1.25		6.77	2.94
80.0	1.33		6.94	2.91
85.0	1.42		6.96	2.92
90.0	1.50		7.30	2.91
95.0	1.58		7.24	3.01
100.0	1.67		7.56	2.97
105.0	1.75		7.62	2.90
110.0	1.83		7.76	2.95
115.0	1.92		8.01	2.87
120.0	2.00		8.07	2.89
125.0	2.08		8.41	2.89
130.0	2.17		8.22	3.01

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	4.900	9.450
		Depth (ft)	16.076	31.004
135.0	2.25		8.65	2.95
140.0	2.33		8.74	2.86
145.0	2.42		8.76	2.90
150.0	2.50		8.84	2.89
155.0	2.58		9.09	2.87
160.0	2.67		9.13	2.86
165.0	2.75		9.36	2.93
170.0	2.83		9.59	2.91
175.0	2.92		9.54	2.79
180.0	3.00		9.90	2.88
185.0	3.08		9.90	2.89
190.0	3.17		10.08	2.83
195.0	3.25		10.18	2.84
200.0	3.33		10.29	2.79
205.0	3.42		10.49	2.90
210.0	3.50		10.40	2.89
215.0	3.58		10.64	2.84
220.0	3.67		10.70	2.92
225.0	3.75		10.82	2.79
230.0	3.83		11.00	2.81
235.0	3.92		10.96	2.78
240.0	4.00		11.03	2.72
245.0	4.08		11.33	2.84
250.0	4.17		11.54	2.80
255.0	4.25		11.50	2.86
260.0	4.33		11.64	2.84
265.0	4.42		11.71	2.77
270.0	4.50		11.85	2.57
275.0	4.58		12.10	2.73
280.0	4.67		12.13	2.71
285.0	4.75		12.15	2.61
290.0	4.83		12.32	2.60
295.0	4.92		12.22	2.70
300.0	5.00		12.48	2.68

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP12-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-12-2		
Location:	Bridgeton Landfill		
Sounding Date:	20-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	49
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	16.500		
Longest Trace - Depth (ft):	54.133		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 3.850 / 12.631	2 / 61 / 16.500 / 54.133
0.0	0.00		7.21	10.67
5.0	0.08		5.10	10.35
10.0	0.17		5.31	10.47
15.0	0.25		5.23	10.32
20.0	0.33		5.28	10.27
25.0	0.42		5.20	10.12
30.0	0.50		5.27	10.22
35.0	0.58		5.09	10.18
40.0	0.67		5.28	10.07
45.0	0.75		5.28	10.05
50.0	0.83		5.09	9.99
55.0	0.92		4.94	9.89
60.0	1.00		5.03	9.97
65.0	1.08		5.06	9.89
70.0	1.17		5.04	9.84
75.0	1.25		5.01	9.88
80.0	1.33		5.04	9.73
85.0	1.42		5.02	9.66
90.0	1.50		4.98	9.62
95.0	1.58		4.95	9.70
100.0	1.67		4.83	9.45
105.0	1.75		4.78	9.58
110.0	1.83		4.56	9.49
115.0	1.92		4.68	9.43
120.0	2.00		4.70	9.38
125.0	2.08		4.46	9.33
130.0	2.17		4.34	9.29

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	3.850	16.500
		Depth (ft)	12.631	54.133
135.0	2.25		4.36	9.21
140.0	2.33		4.51	9.17
145.0	2.42		4.54	9.16
150.0	2.50		4.29	9.16
155.0	2.58		4.43	9.00
160.0	2.67		4.40	9.02
165.0	2.75		4.13	8.96
170.0	2.83		4.02	8.98
175.0	2.92		3.93	8.94
180.0	3.00		4.02	8.94
185.0	3.08		4.05	8.83
190.0	3.17		3.96	8.74
195.0	3.25		3.87	8.77
200.0	3.33		3.84	8.71
205.0	3.42		3.69	8.67
210.0	3.50		3.70	8.69
215.0	3.58		3.60	8.61
220.0	3.67		3.69	8.51
225.0	3.75		3.66	8.51
230.0	3.83		3.50	8.54
235.0	3.92		3.60	8.54
240.0	4.00		3.64	8.50
245.0	4.08		3.56	8.42
250.0	4.17		3.38	8.50
255.0	4.25		3.40	8.37
260.0	4.33		3.40	8.34
265.0	4.42		3.40	8.30
270.0	4.50		3.39	8.32
275.0	4.58		3.46	8.34
280.0	4.67		3.38	8.17
285.0	4.75		3.43	8.26
290.0	4.83		3.35	8.31
295.0	4.92		3.28	8.20
300.0	5.00		3.33	8.18

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP12-3.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-12-3		
Location:	Bridgeton Landfill		
Sounding Date:	21-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	116
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	16.550		
Longest Trace - Depth (ft):	54.297		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.850 / 22.473	2 / 61 / 16.550 / 54.297
0.0	0.00		4.88	10.44
5.0	0.08		7.35	7.98
10.0	0.17		7.60	9.09
15.0	0.25		4.76	9.05
20.0	0.33		5.15	8.74
25.0	0.42		5.93	8.48
30.0	0.50		6.45	8.13
35.0	0.58		3.95	7.79
40.0	0.67		3.76	7.58
45.0	0.75		3.53	7.28
50.0	0.83		3.43	7.05
55.0	0.92		3.77	7.06
60.0	1.00		3.71	6.85
65.0	1.08		3.74	6.63
70.0	1.17		4.44	6.49
75.0	1.25		5.05	6.25
80.0	1.33		4.52	6.26
85.0	1.42		3.90	6.05
90.0	1.50		3.55	5.95
95.0	1.58		3.39	5.87
100.0	1.67		3.45	5.71
105.0	1.75		3.45	5.62
110.0	1.83		3.46	5.58
115.0	1.92		3.52	5.48
120.0	2.00		3.83	5.41
125.0	2.08		4.09	5.35
130.0	2.17		4.20	5.21

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.850	16.550
		Depth (ft)	22.473	54.297
135.0	2.25		4.29	5.23
140.0	2.33		4.22	5.15
145.0	2.42		3.65	5.09
150.0	2.50		3.49	5.02
155.0	2.58		3.55	5.05
160.0	2.67		3.43	5.02
165.0	2.75		3.34	4.99
170.0	2.83		3.41	4.93
175.0	2.92		3.44	4.90
180.0	3.00		3.50	4.87
185.0	3.08		3.37	4.93
190.0	3.17		3.29	4.90
195.0	3.25		3.47	4.85
200.0	3.33		3.38	4.82
205.0	3.42		3.46	4.85
210.0	3.50		3.42	4.96
215.0	3.58		3.51	4.86
220.0	3.67		3.41	4.83
225.0	3.75		3.41	4.82
230.0	3.83		3.35	4.89
235.0	3.92		3.48	4.89
240.0	4.00		3.48	4.91
245.0	4.08		3.41	4.91
250.0	4.17		3.36	4.95
255.0	4.25		3.43	4.93
260.0	4.33		3.47	4.90
265.0	4.42		3.51	4.86
270.0	4.50		3.44	4.93
275.0	4.58		3.27	4.93
280.0	4.67		3.42	4.97
285.0	4.75		3.52	5.02
290.0	4.83		3.47	5.07
295.0	4.92		3.58	4.93
300.0	5.00		3.76	5.05

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP12-4.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-12-4		
Location:	Bridgeton Landfill		
Sounding Date:	21-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	260
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	3		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	15.600		
Longest Trace - Depth (ft):	51.180		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	61	31	61
		Depth (m)	4.800	8.350	15.600
		Depth (ft)	15.748	27.395	51.180
0.0	0.00		1.50	48.86	5.41
5.0	0.08		2.05	23.85	5.32
10.0	0.17		1.61	20.79	5.62
15.0	0.25		1.62	20.55	5.78
20.0	0.33		1.74	20.60	5.59
25.0	0.42		1.80	20.43	5.76
30.0	0.50		1.95	20.35	5.86
35.0	0.58		1.87	20.13	5.75
40.0	0.67		1.80	20.09	5.85
45.0	0.75		1.79	19.82	5.92
50.0	0.83		1.87	19.74	5.99
55.0	0.92		1.85	19.56	5.88
60.0	1.00		1.77	19.20	5.88
65.0	1.08		1.84	19.16	5.94
70.0	1.17		1.77	19.09	5.87
75.0	1.25		1.76	18.90	5.90
80.0	1.33		1.72	18.84	5.76
85.0	1.42		1.89	18.75	5.78
90.0	1.50		1.97	18.56	5.71
95.0	1.58		1.82	18.45	5.76
100.0	1.67		1.85	18.24	5.78
105.0	1.75		1.89	18.06	5.68
110.0	1.83		1.86	17.92	5.65
115.0	1.92		1.93	17.77	5.70
120.0	2.00		1.85	17.74	5.62
125.0	2.08		1.92	17.55	5.59
130.0	2.17		1.91	17.41	5.62

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	61	31	61
		Depth (m)	4.800	8.350	15.600
		Depth (ft)	15.748	27.395	51.180
135.0	2.25		1.85	17.33	5.63
140.0	2.33		2.09	17.11	5.64
145.0	2.42		2.16	17.15	5.65
150.0	2.50		1.95	17.06	5.58
155.0	2.58		1.84		5.52
160.0	2.67		1.91		5.51
165.0	2.75		1.94		5.40
170.0	2.83		1.99		5.45
175.0	2.92		2.02		5.44
180.0	3.00		1.98		5.45
185.0	3.08		1.99		5.44
190.0	3.17		1.94		5.09
195.0	3.25		1.95		5.36
200.0	3.33		1.84		5.30
205.0	3.42		1.87		5.37
210.0	3.50		1.99		5.29
215.0	3.58		1.93		5.38
220.0	3.67		1.95		5.26
225.0	3.75		1.87		5.26
230.0	3.83		1.87		5.23
235.0	3.92		2.12		5.10
240.0	4.00		1.87		5.22
245.0	4.08		1.78		5.11
250.0	4.17		1.74		5.21
255.0	4.25		1.80		5.17
260.0	4.33		1.82		5.21
265.0	4.42		1.86		5.07
270.0	4.50		1.77		5.07
275.0	4.58		1.84		5.12
280.0	4.67		1.84		5.00
285.0	4.75		1.81		5.03
290.0	4.83		1.87		5.02
295.0	4.92		1.77		5.04
300.0	5.00		1.80		5.02

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP12-5.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-12-5		
Location:	Bridgeton Landfill		
Sounding Date:	21-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	163
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	6.900		
Longest Trace - Depth (ft):	22.638		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 2.950 / 9.678	2 / 61 / 6.900 / 22.638
0.0	0.00		9.13	7.44
5.0	0.08		10.44	6.41
10.0	0.17		11.45	6.17
15.0	0.25		11.63	5.81
20.0	0.33		11.66	5.63
25.0	0.42		11.71	5.49
30.0	0.50		11.69	5.37
35.0	0.58		11.81	5.30
40.0	0.67		11.61	5.35
45.0	0.75		11.86	5.30
50.0	0.83		11.94	5.19
55.0	0.92		11.88	5.09
60.0	1.00		11.95	5.09
65.0	1.08		12.07	4.97
70.0	1.17		11.82	4.95
75.0	1.25		11.95	4.87
80.0	1.33		11.79	4.84
85.0	1.42		12.01	4.85
90.0	1.50		11.90	4.80
95.0	1.58		11.82	4.81
100.0	1.67		12.01	4.67
105.0	1.75		12.02	4.69
110.0	1.83		11.77	4.62
115.0	1.92		12.02	4.62
120.0	2.00		11.98	4.66
125.0	2.08		12.22	4.55
130.0	2.17		11.94	4.60

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	2.950	6.900
		Depth (ft)	9.678	22.638
135.0	2.25		12.03	4.63
140.0	2.33		12.04	4.65
145.0	2.42		12.10	4.61
150.0	2.50		11.88	4.56
155.0	2.58		12.05	4.56
160.0	2.67		12.05	4.38
165.0	2.75		11.97	4.62
170.0	2.83		12.15	4.45
175.0	2.92		12.11	4.48
180.0	3.00		12.15	4.51
185.0	3.08		12.16	4.48
190.0	3.17		12.15	4.43
195.0	3.25		12.06	4.35
200.0	3.33		12.28	4.38
205.0	3.42		12.21	4.31
210.0	3.50		12.14	4.44
215.0	3.58		12.16	4.39
220.0	3.67		12.21	4.29
225.0	3.75		12.32	4.37
230.0	3.83		12.27	4.39
235.0	3.92		12.26	4.43
240.0	4.00		12.36	4.35
245.0	4.08		12.28	4.43
250.0	4.17		12.45	4.34
255.0	4.25		12.32	4.38
260.0	4.33		12.45	4.36
265.0	4.42		12.37	4.32
270.0	4.50		12.34	4.39
275.0	4.58		12.36	4.38
280.0	4.67		12.33	4.38
285.0	4.75		12.54	4.40
290.0	4.83		12.52	4.39
295.0	4.92		12.67	4.38
300.0	5.00		12.66	4.26

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP12-6.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-12-6		
Location:	Bridgeton Landfill		
Sounding Date:	18-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	38
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	182		
Longest Trace - Depth (m):	18.100		
Longest Trace - Depth (ft):	59.382		
Longest Trace - Duration (s):	905.0		
Longest Trace - Duration (min):	15.08		
Longest Trace - Duration (hrs):	0.251		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time	Time	Trace No.	1	2	3
(s)	(min)	Trace Points	90	182	50
		Depth (m)	7.550	18.100	19.100
		Depth (ft)	24.770	59.382	62.663
0.0	0.00		10.61	27.14	22.90
5.0	0.08		10.23	27.32	22.42
10.0	0.17		9.84	27.04	22.27
15.0	0.25		9.57	27.00	22.17
20.0	0.33		9.49	26.85	22.03
25.0	0.42		9.36	26.67	22.06
30.0	0.50		9.24	26.67	21.97
35.0	0.58		8.97	26.73	21.95
40.0	0.67		8.90	26.66	21.92
45.0	0.75		8.88	26.52	21.93
50.0	0.83		8.77	26.51	21.84
55.0	0.92		8.75	26.44	21.80
60.0	1.00		8.80	26.45	21.87
65.0	1.08		8.70	26.34	21.65
70.0	1.17		8.70	26.32	21.64
75.0	1.25		8.51	26.19	21.65
80.0	1.33		8.47	26.17	21.57
85.0	1.42		8.56	26.12	21.55
90.0	1.50		8.43	25.97	21.53
95.0	1.58		8.45	26.00	21.48
100.0	1.67		8.42	25.95	21.44
105.0	1.75		8.29	25.85	21.37
110.0	1.83		8.35	25.79	21.33
115.0	1.92		8.25	25.66	21.26
120.0	2.00		8.32	25.66	21.24
125.0	2.08		8.14	25.62	21.17
130.0	2.17		8.14	25.60	21.20

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	90	182	50
		Depth (m)	7.550	18.100	19.100
		Depth (ft)	24.770	59.382	62.663
135.0	2.25		8.29	25.61	21.09
140.0	2.33		8.13	25.44	21.02
145.0	2.42		8.11	25.36	21.05
150.0	2.50		8.07	25.40	21.05
155.0	2.58		8.00	25.27	21.04
160.0	2.67		8.12	25.19	20.97
165.0	2.75		8.07	25.29	20.92
170.0	2.83		8.06	25.21	20.88
175.0	2.92		8.01	25.18	20.86
180.0	3.00		7.97	25.14	20.80
185.0	3.08		7.89	25.05	20.88
190.0	3.17		7.95	24.98	20.83
195.0	3.25		7.90	24.97	20.76
200.0	3.33		7.92	24.89	20.70
205.0	3.42		7.86	24.96	20.77
210.0	3.50		7.86	24.85	20.70
215.0	3.58		7.88	24.88	20.64
220.0	3.67		7.80	24.80	20.66
225.0	3.75		7.96	24.81	20.58
230.0	3.83		7.86	24.79	20.51
235.0	3.92		7.75	24.71	20.67
240.0	4.00		7.82	24.63	20.54
245.0	4.08		7.86	24.60	20.50
250.0	4.17		7.73	24.64	
255.0	4.25		7.80	24.57	
260.0	4.33		7.77	24.56	
265.0	4.42		7.89	24.51	
270.0	4.50		7.73	24.51	
275.0	4.58		7.78	24.39	
280.0	4.67		7.71	24.40	
285.0	4.75		7.80	24.40	
290.0	4.83		7.75	24.38	
295.0	4.92		7.73	24.35	
300.0	5.00		7.78	24.21	
305.0	5.08		7.70	24.31	
310.0	5.17		7.72	24.28	
315.0	5.25		7.72	24.23	
320.0	5.33		7.76	24.26	
325.0	5.42		7.74	24.22	
330.0	5.50		7.70	24.13	
335.0	5.58		7.70	24.05	
340.0	5.67		7.71	24.12	
345.0	5.75		7.79	24.00	
350.0	5.83		7.63	24.02	
355.0	5.92		7.66	24.01	
360.0	6.00		7.74	23.97	
365.0	6.08		7.71	23.98	
370.0	6.17		7.73	23.97	
375.0	6.25		7.70	24.02	
380.0	6.33		7.69	23.90	
385.0	6.42		7.76	23.90	
390.0	6.50		7.74	23.87	
395.0	6.58		7.68	23.85	

Time (s)	Time (min)	Trace No. Trace Points	1 90	2 182	3 50
		Depth (m)	7.550	18.100	19.100
		Depth (ft)	24.770	59.382	62.663
400.0	6.67		7.69	23.93	
405.0	6.75		7.71	23.81	
410.0	6.83		7.70	23.79	
415.0	6.92		7.66	23.72	
420.0	7.00		7.74	23.79	
425.0	7.08		7.80	23.68	
430.0	7.17		7.70	23.69	
435.0	7.25		7.77	23.69	
440.0	7.33		7.80	23.68	
445.0	7.42		7.73	23.61	
450.0	7.50			23.68	
455.0	7.58			23.61	
460.0	7.67			23.58	
465.0	7.75			23.63	
470.0	7.83			23.58	
475.0	7.92			23.51	
480.0	8.00			23.50	
485.0	8.08			23.50	
490.0	8.17			23.56	
495.0	8.25			23.53	
500.0	8.33			23.41	
505.0	8.42			23.46	
510.0	8.50			23.40	
515.0	8.58			23.41	
520.0	8.67			23.36	
525.0	8.75			23.34	
530.0	8.83			23.32	
535.0	8.92			23.43	
540.0	9.00			23.34	
545.0	9.08			23.32	
550.0	9.17			23.24	
555.0	9.25			23.29	
560.0	9.33			23.20	
565.0	9.42			23.21	
570.0	9.50			23.31	
575.0	9.58			23.26	
580.0	9.67			23.29	
585.0	9.75			23.22	
590.0	9.83			23.19	
595.0	9.92			23.24	
600.0	10.00			23.22	
605.0	10.08			23.11	
610.0	10.17			23.17	
615.0	10.25			23.19	
620.0	10.33			23.18	
625.0	10.42			23.10	
630.0	10.50			23.14	
635.0	10.58			23.16	
640.0	10.67			23.14	
645.0	10.75			23.11	
650.0	10.83			23.01	
655.0	10.92			23.14	
660.0	11.00			23.01	

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	90	182	50
		Depth (m)	7.550	18.100	19.100
		Depth (ft)	24.770	59.382	62.663
665.0	11.08			23.07	
670.0	11.17			22.99	
675.0	11.25			22.98	
680.0	11.33			22.96	
685.0	11.42			23.00	
690.0	11.50			22.94	
695.0	11.58			23.00	
700.0	11.67			22.94	
705.0	11.75			22.97	
710.0	11.83			22.97	
715.0	11.92			22.85	
720.0	12.00			22.99	
725.0	12.08			22.92	
730.0	12.17			22.86	
735.0	12.25			22.93	
740.0	12.33			22.84	
745.0	12.42			22.92	
750.0	12.50			22.84	
755.0	12.58			22.80	
760.0	12.67			22.74	
765.0	12.75			22.77	
770.0	12.83			22.85	
775.0	12.92			22.70	
780.0	13.00			22.81	
785.0	13.08			22.81	
790.0	13.17			22.87	
795.0	13.25			22.73	
800.0	13.33			22.82	
805.0	13.42			22.75	
810.0	13.50			22.79	
815.0	13.58			22.80	
820.0	13.67			22.66	
825.0	13.75			22.64	
830.0	13.83			22.72	
835.0	13.92			22.71	
840.0	14.00			22.68	
845.0	14.08			22.63	
850.0	14.17			22.65	
855.0	14.25			22.68	
860.0	14.33			22.65	
865.0	14.42			22.65	
870.0	14.50			22.67	
875.0	14.58			22.63	
880.0	14.67			22.58	
885.0	14.75			22.63	
890.0	14.83			22.64	
895.0	14.92			22.62	
900.0	15.00			22.63	
905.0	15.08			22.69	

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP13-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-13-1		
Location:	Bridgeton Landfill		
Sounding Date:	21-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	47
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	6.200		
Longest Trace - Depth (ft):	20.341		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	2.050	6.200
		Depth (ft)	6.726	20.341
0.0	0.00		38.12	19.82
5.0	0.08		47.75	10.61
10.0	0.17		49.42	9.05
15.0	0.25		50.74	8.27
20.0	0.33		52.32	7.69
25.0	0.42		53.39	7.10
30.0	0.50		53.84	6.71
35.0	0.58		54.14	6.35
40.0	0.67		54.33	6.14
45.0	0.75		54.33	5.81
50.0	0.83		54.26	5.78
55.0	0.92		53.89	5.44
60.0	1.00		53.51	5.27
65.0	1.08		53.04	5.23
70.0	1.17		52.60	4.89
75.0	1.25		51.98	4.65
80.0	1.33		51.39	4.74
85.0	1.42		50.96	4.71
90.0	1.50		50.35	4.43
95.0	1.58		49.64	4.31
100.0	1.67		49.08	4.26
105.0	1.75		48.52	4.28
110.0	1.83		47.81	4.17
115.0	1.92		47.22	4.17
120.0	2.00		46.71	4.00
125.0	2.08		45.98	3.83
130.0	2.17		45.46	3.84

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	2.050	6.200
		Depth (ft)	6.726	20.341
135.0	2.25		44.98	3.75
140.0	2.33		44.25	3.77
145.0	2.42		43.73	3.72
150.0	2.50		43.22	3.53
155.0	2.58		42.56	3.60
160.0	2.67		42.15	3.55
165.0	2.75		41.77	3.43
170.0	2.83		41.15	3.47
175.0	2.92		40.78	3.42
180.0	3.00		40.14	3.42
185.0	3.08		39.72	3.42
190.0	3.17		39.26	3.38
195.0	3.25		38.86	3.16
200.0	3.33		38.61	3.29
205.0	3.42		38.11	3.17
210.0	3.50		37.73	3.18
215.0	3.58		37.42	3.10
220.0	3.67		36.90	3.20
225.0	3.75		36.56	3.17
230.0	3.83		36.12	3.02
235.0	3.92		35.83	3.07
240.0	4.00		35.28	2.97
245.0	4.08		35.08	2.91
250.0	4.17		34.79	3.01
255.0	4.25		34.50	2.82
260.0	4.33		34.05	2.85
265.0	4.42		33.88	2.72
270.0	4.50		33.57	2.87
275.0	4.58		33.27	2.76
280.0	4.67		32.90	2.90
285.0	4.75		32.59	2.76
290.0	4.83		32.35	2.78
295.0	4.92		32.08	2.69
300.0	5.00		31.85	2.72

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP13-2A.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-13-2A		
Location:	Bridgeton Landfill		
Sounding Date:	21-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	48
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	26		
Longest Trace - Depth (m):	1.450		
Longest Trace - Depth (ft):	4.757		
Longest Trace - Duration (s):	125.0		
Longest Trace - Duration (min):	2.08		
Longest Trace - Duration (hrs):	0.035		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1
		Trace Points	26
		Depth (m)	1.450
		Depth (ft)	4.757
0.0	0.00		0.86
5.0	0.08		-0.06
10.0	0.17		0.13
15.0	0.25		0.17
20.0	0.33		0.17
25.0	0.42		0.11
30.0	0.50		0.07
35.0	0.58		0.11
40.0	0.67		0.13
45.0	0.75		0.11
50.0	0.83		0.15
55.0	0.92		0.17
60.0	1.00		0.16
65.0	1.08		0.22
70.0	1.17		0.22
75.0	1.25		0.09
80.0	1.33		0.21
85.0	1.42		0.15
90.0	1.50		0.18
95.0	1.58		0.13
100.0	1.67		0.21
105.0	1.75		0.23
110.0	1.83		0.25
115.0	1.92		0.26
120.0	2.00		0.17
125.0	2.08		0.20

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP13-3.PPD
Job Number:	13-53075
Sounding ID:	GCPT-13-3
Location:	Bridgeton Landfill
Sounding Date:	21-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 20
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	18
Longest Trace - Depth (m):	1.250
Longest Trace - Depth (ft):	4.101
Longest Trace - Duration (s):	85.0
Longest Trace - Duration (min):	1.42
Longest Trace - Duration (hrs):	0.024
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 18 / 1.250 / 4.101
0.0	0.00		1.46
5.0	0.08		-0.06
10.0	0.17		-0.40
15.0	0.25		-0.29
20.0	0.33		-0.26
25.0	0.42		-0.22
30.0	0.50		-0.15
35.0	0.58		-0.15
40.0	0.67		-0.08
45.0	0.75		-0.12
50.0	0.83		-0.13
55.0	0.92		0.05
60.0	1.00		0.09
65.0	1.08		0.02
70.0	1.17		-0.06
75.0	1.25		0.05
80.0	1.33		0.08
85.0	1.42		0.27

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP13-4S.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-13-4S		
Location:	Bridgeton Landfill		
Sounding Date:	03-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	70
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	3		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	14.800		
Longest Trace - Depth (ft):	48.556		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.350 / 20.833	2 / 61 / 13.700 / 44.947	3 / 61 / 14.800 / 48.556
0.0	0.00		17.58	5.41	7.12
5.0	0.08		10.69	2.21	6.84
10.0	0.17		9.35	2.57	6.55
15.0	0.25		9.33	2.31	6.21
20.0	0.33		9.20	2.72	6.02
25.0	0.42		9.29	2.73	5.81
30.0	0.50		9.55	2.98	5.61
35.0	0.58		9.36	2.23	5.51
40.0	0.67		9.39	2.54	5.30
45.0	0.75		9.32	2.44	5.31
50.0	0.83		9.51	2.66	5.16
55.0	0.92		9.42	2.47	5.04
60.0	1.00		9.16	2.47	5.02
65.0	1.08		9.25	2.47	4.89
70.0	1.17		8.97	2.27	4.93
75.0	1.25		8.96	2.41	4.81
80.0	1.33		9.08	2.30	4.80
85.0	1.42		8.93	2.54	4.77
90.0	1.50		8.62	2.31	4.75
95.0	1.58		8.52	1.89	4.70
100.0	1.67		8.61	2.69	4.78
105.0	1.75		8.27	2.02	4.62
110.0	1.83		7.95	2.37	4.54
115.0	1.92		7.94	2.17	4.51
120.0	2.00		7.83	1.83	4.19
125.0	2.08		7.53	1.84	4.28
130.0	2.17		7.24	2.38	4.24

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	61	61	61
		Depth (m)	6.350	13.700	14.800
		Depth (ft)	20.833	44.947	48.556
135.0	2.25		7.33	1.89	4.28
140.0	2.33		7.39	2.15	4.26
145.0	2.42		7.01	2.40	4.39
150.0	2.50		7.01	2.41	4.26
155.0	2.58		6.68	2.39	4.26
160.0	2.67		6.71	2.19	4.26
165.0	2.75		6.64	1.81	4.21
170.0	2.83		6.48	1.99	4.19
175.0	2.92		6.50	2.14	4.27
180.0	3.00		6.35	2.02	4.08
185.0	3.08		6.27	1.44	4.17
190.0	3.17		6.29	1.86	4.16
195.0	3.25		6.20	1.40	4.18
200.0	3.33		6.28	1.82	4.11
205.0	3.42		5.80	2.07	4.25
210.0	3.50		5.90	1.79	3.85
215.0	3.58		6.04	2.18	4.04
220.0	3.67		5.63	2.09	3.90
225.0	3.75		5.82	1.84	4.12
230.0	3.83		5.63	2.21	4.04
235.0	3.92		5.34	2.17	4.10
240.0	4.00		5.38	1.39	4.20
245.0	4.08		5.63	1.87	4.23
250.0	4.17		5.25	1.50	4.01
255.0	4.25		5.39	1.72	3.90
260.0	4.33		5.38	2.14	3.89
265.0	4.42		5.23	1.72	4.06
270.0	4.50		5.01	1.75	4.04
275.0	4.58		5.19	1.45	3.90
280.0	4.67		4.89	2.30	3.97
285.0	4.75		4.81	1.68	4.06
290.0	4.83		4.87	1.61	3.97
295.0	4.92		4.85	1.80	4.03
300.0	5.00		4.75	1.90	3.92

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP13-5S.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-13-5S		
Location:	Bridgeton Landfill		
Sounding Date:	04-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	61
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	12.600		
Longest Trace - Depth (ft):	41.338		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.200 / 20.341	2 / 61 / 12.600 / 41.338
0.0	0.00		22.58	9.41
5.0	0.08		6.27	5.61
10.0	0.17		6.39	4.81
15.0	0.25		8.10	4.60
20.0	0.33		8.76	4.44
25.0	0.42		9.56	4.34
30.0	0.50		10.15	4.25
35.0	0.58		10.44	4.31
40.0	0.67		10.95	4.45
45.0	0.75		10.53	4.73
50.0	0.83		10.79	4.95
55.0	0.92		10.46	4.93
60.0	1.00		10.30	4.94
65.0	1.08		10.29	5.17
70.0	1.17		10.14	5.15
75.0	1.25		9.73	5.13
80.0	1.33		9.51	5.20
85.0	1.42		9.26	5.30
90.0	1.50		8.87	5.32
95.0	1.58		8.74	5.48
100.0	1.67		8.54	5.43
105.0	1.75		8.42	5.43
110.0	1.83		8.32	5.35
115.0	1.92		7.66	5.45
120.0	2.00		7.69	5.56
125.0	2.08		7.60	5.49
130.0	2.17		7.66	5.53

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.200	12.600
		Depth (ft)	20.341	41.338
135.0	2.25		7.60	5.70
140.0	2.33		6.96	5.55
145.0	2.42		6.67	5.54
150.0	2.50		6.32	5.50
155.0	2.58		7.00	5.59
160.0	2.67		6.72	5.74
165.0	2.75		6.43	5.57
170.0	2.83		6.06	5.61
175.0	2.92		6.22	5.71
180.0	3.00		6.36	5.92
185.0	3.08		6.08	5.81
190.0	3.17		5.57	5.87
195.0	3.25		5.61	6.07
200.0	3.33		6.05	6.09
205.0	3.42		5.95	5.95
210.0	3.50		5.78	6.02
215.0	3.58		5.13	6.08
220.0	3.67		5.41	6.32
225.0	3.75		4.89	6.14
230.0	3.83		5.65	6.08
235.0	3.92		5.16	6.01
240.0	4.00		4.56	6.19
245.0	4.08		4.87	6.11
250.0	4.17		4.88	6.10
255.0	4.25		4.98	6.02
260.0	4.33		4.93	6.22
265.0	4.42		4.58	6.14
270.0	4.50		4.42	6.36
275.0	4.58		4.80	6.25
280.0	4.67		4.65	6.36
285.0	4.75		3.97	6.35
290.0	4.83		4.69	6.40
295.0	4.92		4.68	6.40
300.0	5.00		4.46	6.30

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP13-6S.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-13-6S		
Location:	Bridgeton Landfill		
Sounding Date:	03-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	43
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	18.200		
Longest Trace - Depth (ft):	59.711		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.700 / 21.981	2 / 61 / 18.200 / 59.711
0.0	0.00		9.70	26.95
5.0	0.08		8.86	27.01
10.0	0.17		8.50	26.84
15.0	0.25		8.39	26.73
20.0	0.33		8.05	26.66
25.0	0.42		7.88	26.06
30.0	0.50		7.60	25.81
35.0	0.58		7.54	25.64
40.0	0.67		7.26	25.37
45.0	0.75		7.08	25.44
50.0	0.83		7.01	25.29
55.0	0.92		6.96	25.24
60.0	1.00		6.72	24.98
65.0	1.08		6.62	24.89
70.0	1.17		6.53	24.97
75.0	1.25		6.41	24.68
80.0	1.33		6.19	24.61
85.0	1.42		6.09	24.56
90.0	1.50		6.02	24.39
95.0	1.58		5.76	24.47
100.0	1.67		5.76	24.23
105.0	1.75		5.67	24.00
110.0	1.83		5.86	24.18
115.0	1.92		5.70	23.94
120.0	2.00		5.70	23.88
125.0	2.08		5.40	23.88
130.0	2.17		5.31	23.70

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.700	18.200
		Depth (ft)	21.981	59.711
135.0	2.25		5.10	23.66
140.0	2.33		5.21	23.46
145.0	2.42		5.50	23.41
150.0	2.50		4.92	23.27
155.0	2.58		5.26	23.36
160.0	2.67		4.98	23.19
165.0	2.75		5.19	23.17
170.0	2.83		5.29	23.05
175.0	2.92		4.70	22.93
180.0	3.00		4.95	23.04
185.0	3.08		5.19	22.79
190.0	3.17		4.96	22.77
195.0	3.25		5.16	22.70
200.0	3.33		4.42	22.63
205.0	3.42		4.57	22.58
210.0	3.50		4.70	22.49
215.0	3.58		5.10	22.57
220.0	3.67		4.80	22.42
225.0	3.75		4.99	22.42
230.0	3.83		4.77	22.37
235.0	3.92		4.40	22.29
240.0	4.00		4.70	22.21
245.0	4.08		4.78	22.14
250.0	4.17		4.96	22.12
255.0	4.25		4.45	22.00
260.0	4.33		4.70	22.10
265.0	4.42		4.71	22.11
270.0	4.50		4.56	21.86
275.0	4.58		4.43	21.82
280.0	4.67		4.38	21.75
285.0	4.75		4.70	21.92
290.0	4.83		4.69	21.80
295.0	4.92		4.72	21.74
300.0	5.00		4.60	21.73

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP13-7S.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-13-7S		
Location:	Bridgeton Landfill		
Sounding Date:	06-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	25
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	15.050		
Longest Trace - Depth (ft):	49.376		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	7.300	15.050
		Depth (ft)	23.950	49.376
0.0	0.00		31.81	58.48
5.0	0.08		28.08	44.06
10.0	0.17		24.74	41.15
15.0	0.25		23.14	39.29
20.0	0.33		22.13	38.28
25.0	0.42		21.31	33.26
30.0	0.50		20.62	29.47
35.0	0.58		20.34	28.28
40.0	0.67		19.96	28.48
45.0	0.75		19.43	28.50
50.0	0.83		19.00	28.91
55.0	0.92		19.33	28.84
60.0	1.00		18.87	28.95
65.0	1.08		18.42	29.20
70.0	1.17		19.00	28.90
75.0	1.25		18.87	28.87
80.0	1.33		18.58	28.72
85.0	1.42		18.11	28.61
90.0	1.50		18.18	28.74
95.0	1.58		18.16	28.29
100.0	1.67		17.99	28.58
105.0	1.75		17.78	28.41
110.0	1.83		17.50	28.37
115.0	1.92		17.22	28.44
120.0	2.00		17.60	28.57
125.0	2.08		17.38	28.41
130.0	2.17		17.79	28.49

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	7.300	15.050
		Depth (ft)	23.950	49.376
135.0	2.25		17.36	28.34
140.0	2.33		17.25	28.57
145.0	2.42		17.27	28.43
150.0	2.50		17.36	28.39
155.0	2.58		17.25	28.59
160.0	2.67		16.79	28.25
165.0	2.75		16.91	28.32
170.0	2.83		17.10	28.35
175.0	2.92		16.89	28.03
180.0	3.00		16.82	28.08
185.0	3.08		16.99	28.12
190.0	3.17		17.10	28.14
195.0	3.25		16.78	27.97
200.0	3.33		16.68	28.11
205.0	3.42		16.78	28.11
210.0	3.50		16.54	28.21
215.0	3.58		16.57	28.08
220.0	3.67		16.72	27.98
225.0	3.75		16.54	28.06
230.0	3.83		16.68	27.86
235.0	3.92		16.57	28.03
240.0	4.00		16.16	27.79
245.0	4.08		16.50	27.93
250.0	4.17		16.40	27.81
255.0	4.25		16.57	28.01
260.0	4.33		16.39	28.05
265.0	4.42		16.39	28.02
270.0	4.50		16.65	27.97
275.0	4.58		16.47	27.84
280.0	4.67		16.55	27.95
285.0	4.75		16.24	27.84
290.0	4.83		16.58	27.86
295.0	4.92		16.49	27.70
300.0	5.00		16.30	27.87

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP14-1.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-14-1		
Location:	Bridgeton Landfill		
Sounding Date:	22-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	389
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	5.950		
Longest Trace - Depth (ft):	19.521		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 5.950 / 19.521
0.0	0.00		7.93
5.0	0.08		7.00
10.0	0.17		6.69
15.0	0.25		4.19
20.0	0.33		4.56
25.0	0.42		4.96
30.0	0.50		5.38
35.0	0.58		5.73
40.0	0.67		6.08
45.0	0.75		6.37
50.0	0.83		6.58
55.0	0.92		6.90
60.0	1.00		7.11
65.0	1.08		7.36
70.0	1.17		7.77
75.0	1.25		7.94
80.0	1.33		8.15
85.0	1.42		8.28
90.0	1.50		8.48
95.0	1.58		8.72
100.0	1.67		8.88
105.0	1.75		9.05
110.0	1.83		9.19
115.0	1.92		9.45
120.0	2.00		9.59
125.0	2.08		9.63
130.0	2.17		9.76

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	5.950
		Depth (ft)	19.521
135.0	2.25		10.14
140.0	2.33		9.95
145.0	2.42		9.95
150.0	2.50		9.99
155.0	2.58		10.10
160.0	2.67		10.22
165.0	2.75		10.35
170.0	2.83		10.25
175.0	2.92		10.25
180.0	3.00		10.42
185.0	3.08		10.51
190.0	3.17		10.50
195.0	3.25		10.62
200.0	3.33		10.55
205.0	3.42		10.64
210.0	3.50		10.79
215.0	3.58		10.84
220.0	3.67		10.99
225.0	3.75		11.03
230.0	3.83		11.04
235.0	3.92		11.03
240.0	4.00		11.06
245.0	4.08		11.12
250.0	4.17		11.10
255.0	4.25		11.14
260.0	4.33		11.19
265.0	4.42		11.28
270.0	4.50		11.44
275.0	4.58		11.38
280.0	4.67		11.35
285.0	4.75		11.44
290.0	4.83		11.56
295.0	4.92		11.56
300.0	5.00		11.59

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP14-2.PPD
Job Number:	13-53075
Sounding ID:	GCPT-14-2
Location:	Bridgeton Landfill
Sounding Date:	22-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 95
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	25
Longest Trace - Depth (m):	0.950
Longest Trace - Depth (ft):	3.117
Longest Trace - Duration (s):	120.0
Longest Trace - Duration (min):	2.00
Longest Trace - Duration (hrs):	0.033
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 25 / 0.950 / 3.117
0.0	0.00		0.33
5.0	0.08		-0.21
10.0	0.17		-0.07
15.0	0.25		0.11
20.0	0.33		0.01
25.0	0.42		-0.00
30.0	0.50		0.05
35.0	0.58		-0.03
40.0	0.67		0.01
45.0	0.75		0.01
50.0	0.83		-0.03
55.0	0.92		0.12
60.0	1.00		0.08
65.0	1.08		-0.04
70.0	1.17		0.03
75.0	1.25		-0.11
80.0	1.33		0.17
85.0	1.42		0.11
90.0	1.50		0.21
95.0	1.58		0.15
100.0	1.67		0.08
105.0	1.75		0.09
110.0	1.83		0.07
115.0	1.92		0.13
120.0	2.00		0.08

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP14-3.PPD
Job Number:	13-53075
Sounding ID:	GCPT-14-3
Location:	Bridgeton Landfill
Sounding Date:	22-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 16
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	20
Longest Trace - Depth (m):	0.400
Longest Trace - Depth (ft):	1.312
Longest Trace - Duration (s):	95.0
Longest Trace - Duration (min):	1.58
Longest Trace - Duration (hrs):	0.026
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 20 / 0.400 / 1.312
0.0	0.00		5.16
5.0	0.08		-9.78
10.0	0.17		0.03
15.0	0.25		-0.01
20.0	0.33		-0.06
25.0	0.42		-0.04
30.0	0.50		-0.04
35.0	0.58		-0.06
40.0	0.67		-0.20
45.0	0.75		-0.11
50.0	0.83		-0.11
55.0	0.92		-0.18
60.0	1.00		-0.06
65.0	1.08		-0.09
70.0	1.17		0.01
75.0	1.25		-0.20
80.0	1.33		0.02
85.0	1.42		-0.01
90.0	1.50		0.14
95.0	1.58		0.11

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP14-3S.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-14-3S		
Location:	Bridgeton Landfill		
Sounding Date:	04-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	4	Of	64
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	4		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	13.950		
Longest Trace - Depth (ft):	45.767		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 61 5.850 19.193	2 17 11.350 37.237	3 37 13.350 43.799	4 71 13.950 45.767
0.0	0.00		23.00	15.45	5.41	1.38
5.0	0.08		21.58	18.31	18.94	-0.40
10.0	0.17		25.42	17.70	51.39	1.07
15.0	0.25		27.14	16.29	62.23	3.01
20.0	0.33		27.56	14.88	57.86	4.60
25.0	0.42		27.46	14.17	52.03	5.10
30.0	0.50		27.09	13.30	46.07	5.98
35.0	0.58		26.44	12.72	41.60	6.16
40.0	0.67		25.74	12.41	37.57	6.30
45.0	0.75		25.13	11.93	34.25	7.02
50.0	0.83		24.22	11.53	31.19	6.87
55.0	0.92		23.29	11.24	28.60	6.92
60.0	1.00		22.77	10.98	26.59	6.61
65.0	1.08		22.05	10.82	24.48	7.11
70.0	1.17		21.54	10.61	23.05	7.39
75.0	1.25		21.06	10.47	21.60	7.42
80.0	1.33		20.42	9.64	20.20	7.10
85.0	1.42		19.99		19.09	6.89
90.0	1.50		19.52		18.09	7.26
95.0	1.58		19.26		17.22	7.75
100.0	1.67		18.68		16.33	7.29
105.0	1.75		18.32		15.60	7.43
110.0	1.83		18.21		14.86	7.02
115.0	1.92		17.75		14.28	7.30
120.0	2.00		17.36		13.71	7.13
125.0	2.08		17.00		13.23	7.06
130.0	2.17		16.84		12.76	7.27

Time (s)	Time (min)	Trace No.	1	2	3	4
		Trace Points	61	17	37	71
		Depth (m)	5.850	11.350	13.350	13.950
		Depth (ft)	19.193	37.237	43.799	45.767
135.0	2.25		16.58		12.37	7.43
140.0	2.33		16.26		11.85	7.07
145.0	2.42		16.21		11.70	7.68
150.0	2.50		15.81		11.35	7.15
155.0	2.58		15.83		11.04	7.36
160.0	2.67		15.37		10.74	7.77
165.0	2.75		15.08		10.49	7.32
170.0	2.83		14.91		10.33	7.22
175.0	2.92		14.75		10.64	7.61
180.0	3.00		14.79		11.16	7.18
185.0	3.08		14.35			7.47
190.0	3.17		14.38			7.08
195.0	3.25		14.36			7.40
200.0	3.33		14.25			7.32
205.0	3.42		14.03			7.37
210.0	3.50		13.69			7.64
215.0	3.58		13.65			7.10
220.0	3.67		13.42			7.33
225.0	3.75		13.22			7.37
230.0	3.83		13.02			7.80
235.0	3.92		13.27			7.24
240.0	4.00		12.90			7.36
245.0	4.08		12.90			7.02
250.0	4.17		12.91			7.31
255.0	4.25		12.61			7.36
260.0	4.33		12.60			7.68
265.0	4.42		12.63			7.11
270.0	4.50		12.44			7.36
275.0	4.58		12.30			7.57
280.0	4.67		12.37			7.44
285.0	4.75		12.06			7.30
290.0	4.83		12.05			7.70
295.0	4.92		11.92			7.20
300.0	5.00		11.97			7.38
305.0	5.08					6.90
310.0	5.17					7.01
315.0	5.25					7.01
320.0	5.33					7.58
325.0	5.42					7.33
330.0	5.50					7.14
335.0	5.58					7.50
340.0	5.67					7.51
345.0	5.75					7.33
350.0	5.83					7.02

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP14-5S.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-14-5S		
Location:	Bridgeton Landfill		
Sounding Date:	04-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	10
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	8.100		
Longest Trace - Depth (ft):	26.574		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	71
		Depth (m)	6.700	8.100
		Depth (ft)	21.981	26.574
0.0	0.00		18.28	27.32
5.0	0.08		26.77	17.18
10.0	0.17		24.82	15.43
15.0	0.25		23.46	14.44
20.0	0.33		22.04	13.35
25.0	0.42		21.17	13.23
30.0	0.50		20.53	12.93
35.0	0.58		19.77	12.91
40.0	0.67		19.24	11.60
45.0	0.75		18.92	10.57
50.0	0.83		18.45	10.56
55.0	0.92		17.94	10.87
60.0	1.00		17.18	10.93
65.0	1.08		17.08	11.32
70.0	1.17		16.81	11.23
75.0	1.25		16.49	11.05
80.0	1.33		16.40	11.32
85.0	1.42		15.98	11.52
90.0	1.50		15.86	11.10
95.0	1.58		15.89	11.78
100.0	1.67		15.59	11.39
105.0	1.75		15.48	11.48
110.0	1.83		15.04	10.86
115.0	1.92		15.11	10.78
120.0	2.00		14.89	11.24
125.0	2.08		14.51	11.06
130.0	2.17		14.62	10.84

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	71
		Depth (m)	6.700	8.100
		Depth (ft)	21.981	26.574
135.0	2.25		14.59	10.91
140.0	2.33		14.36	10.93
145.0	2.42		14.38	11.29
150.0	2.50		14.20	10.77
155.0	2.58		14.20	11.10
160.0	2.67		14.02	11.43
165.0	2.75		13.95	11.34
170.0	2.83		14.02	10.77
175.0	2.92		13.75	11.47
180.0	3.00		13.59	11.23
185.0	3.08		13.60	10.94
190.0	3.17		13.59	11.01
195.0	3.25		13.49	11.05
200.0	3.33		13.38	10.59
205.0	3.42		12.94	11.01
210.0	3.50		13.29	10.92
215.0	3.58		12.95	11.25
220.0	3.67		13.09	10.91
225.0	3.75		13.20	10.81
230.0	3.83		13.04	11.18
235.0	3.92		12.98	10.88
240.0	4.00		12.96	10.62
245.0	4.08		12.79	10.93
250.0	4.17		12.92	11.03
255.0	4.25		12.92	10.90
260.0	4.33		12.61	10.55
265.0	4.42		12.45	10.91
270.0	4.50		12.28	10.51
275.0	4.58		12.42	11.10
280.0	4.67		12.42	10.88
285.0	4.75		12.51	10.57
290.0	4.83		12.28	10.23
295.0	4.92		12.27	10.66
300.0	5.00		12.26	10.33
305.0	5.08			10.90
310.0	5.17			10.40
315.0	5.25			11.08
320.0	5.33			10.40
325.0	5.42			10.75
330.0	5.50			10.62
335.0	5.58			10.67
340.0	5.67			11.22
345.0	5.75			10.94
350.0	5.83			10.31

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP14-6S.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-14-6S		
Location:	Bridgeton Landfill		
Sounding Date:	04-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	77
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	23.200		
Longest Trace - Depth (ft):	76.115		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 5.700 / 18.701	2 / 71 / 23.200 / 76.115
0.0	0.00		46.98	90.74
5.0	0.08		48.35	148.26
10.0	0.17		49.15	155.70
15.0	0.25		49.97	148.80
20.0	0.33		50.98	143.67
25.0	0.42		51.43	137.75
30.0	0.50		52.18	134.78
35.0	0.58		52.58	130.19
40.0	0.67		53.16	126.43
45.0	0.75		53.74	124.08
50.0	0.83		54.03	122.10
55.0	0.92		55.01	119.33
60.0	1.00		54.84	117.25
65.0	1.08		55.22	115.35
70.0	1.17		55.58	112.96
75.0	1.25		55.85	111.02
80.0	1.33		56.14	109.32
85.0	1.42		56.48	107.58
90.0	1.50		56.78	106.09
95.0	1.58		56.98	103.89
100.0	1.67		57.02	102.72
105.0	1.75		57.46	101.12
110.0	1.83		57.73	100.15
115.0	1.92		58.00	98.32
120.0	2.00		58.00	96.92
125.0	2.08		58.15	95.93
130.0	2.17		58.48	95.01

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	71
		Depth (m)	5.700	23.200
		Depth (ft)	18.701	76.115
135.0	2.25		58.16	93.94
140.0	2.33		58.40	92.71
145.0	2.42		58.57	91.79
150.0	2.50		58.61	90.99
155.0	2.58		58.85	89.73
160.0	2.67		59.13	89.13
165.0	2.75		59.02	87.90
170.0	2.83		59.31	88.02
175.0	2.92		59.35	86.71
180.0	3.00		59.31	86.39
185.0	3.08		59.47	85.35
190.0	3.17		59.57	84.49
195.0	3.25		59.47	84.30
200.0	3.33		59.49	83.42
205.0	3.42		59.66	83.27
210.0	3.50		59.73	82.26
215.0	3.58		59.68	81.93
220.0	3.67		59.89	81.44
225.0	3.75		59.75	80.38
230.0	3.83		60.02	79.87
235.0	3.92		59.90	79.65
240.0	4.00		60.14	79.17
245.0	4.08		60.00	78.43
250.0	4.17		60.09	78.77
255.0	4.25		60.05	78.11
260.0	4.33		60.24	77.56
265.0	4.42		60.22	77.21
270.0	4.50		60.10	76.51
275.0	4.58		60.34	76.21
280.0	4.67		60.31	76.29
285.0	4.75		60.41	75.40
290.0	4.83		60.22	75.18
295.0	4.92		60.35	75.02
300.0	5.00		60.22	74.90
305.0	5.08			74.70
310.0	5.17			74.12
315.0	5.25			73.78
320.0	5.33			73.65
325.0	5.42			73.76
330.0	5.50			73.44
335.0	5.58			73.06
340.0	5.67			72.77
345.0	5.75			72.50
350.0	5.83			71.96

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP15-1.PPD
Job Number:	13-53075
Sounding ID:	GCPT-15-1
Location:	Bridgeton Landfill
Sounding Date:	23-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 37
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	5.950
Longest Trace - Depth (ft):	19.521
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 5.950 / 19.521
0.0	0.00		9.30
5.0	0.08		10.84
10.0	0.17		10.15
15.0	0.25		9.65
20.0	0.33		9.33
25.0	0.42		9.10
30.0	0.50		8.86
35.0	0.58		8.63
40.0	0.67		8.52
45.0	0.75		8.31
50.0	0.83		8.08
55.0	0.92		7.94
60.0	1.00		7.74
65.0	1.08		7.68
70.0	1.17		7.45
75.0	1.25		7.33
80.0	1.33		7.22
85.0	1.42		7.14
90.0	1.50		6.94
95.0	1.58		6.85
100.0	1.67		6.81
105.0	1.75		6.63
110.0	1.83		6.54
115.0	1.92		6.28
120.0	2.00		6.16
125.0	2.08		5.66
130.0	2.17		5.34

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	5.950
		Depth (ft)	19.521
135.0	2.25		5.04
140.0	2.33		4.78
145.0	2.42		4.63
150.0	2.50		4.45
155.0	2.58		4.31
160.0	2.67		4.26
165.0	2.75		4.08
170.0	2.83		4.11
175.0	2.92		4.09
180.0	3.00		3.86
185.0	3.08		3.73
190.0	3.17		3.72
195.0	3.25		3.71
200.0	3.33		3.68
205.0	3.42		3.62
210.0	3.50		3.54
215.0	3.58		3.53
220.0	3.67		3.43
225.0	3.75		3.40
230.0	3.83		3.41
235.0	3.92		3.40
240.0	4.00		3.26
245.0	4.08		3.25
250.0	4.17		3.30
255.0	4.25		3.18
260.0	4.33		3.21
265.0	4.42		3.23
270.0	4.50		3.12
275.0	4.58		3.10
280.0	4.67		3.11
285.0	4.75		3.03
290.0	4.83		2.91
295.0	4.92		3.01
300.0	5.00		3.02

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP15-3.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-15-3		
Location:	Bridgeton Landfill		
Sounding Date:	23-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	59
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	3.900		
Longest Trace - Depth (ft):	12.795		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 71 / 3.900 / 12.795
0.0	0.00		8.59
5.0	0.08		5.79
10.0	0.17		5.08
15.0	0.25		4.46
20.0	0.33		4.03
25.0	0.42		3.92
30.0	0.50		3.47
35.0	0.58		3.27
40.0	0.67		3.06
45.0	0.75		2.95
50.0	0.83		2.80
55.0	0.92		2.60
60.0	1.00		2.66
65.0	1.08		2.43
70.0	1.17		2.41
75.0	1.25		2.18
80.0	1.33		2.04
85.0	1.42		1.94
90.0	1.50		2.06
95.0	1.58		1.88
100.0	1.67		1.78
105.0	1.75		1.79
110.0	1.83		1.61
115.0	1.92		1.59
120.0	2.00		1.47
125.0	2.08		1.47
130.0	2.17		1.45

Time (s)	Time (min)	Trace No.	1
		Trace Points	71
		Depth (m)	3.900
		Depth (ft)	12.795
135.0	2.25		1.17
140.0	2.33		1.34
145.0	2.42		1.24
150.0	2.50		1.19
155.0	2.58		1.09
160.0	2.67		1.11
165.0	2.75		0.99
170.0	2.83		0.95
175.0	2.92		0.85
180.0	3.00		0.98
185.0	3.08		0.93
190.0	3.17		0.84
195.0	3.25		0.81
200.0	3.33		0.80
205.0	3.42		0.76
210.0	3.50		0.75
215.0	3.58		0.65
220.0	3.67		0.73
225.0	3.75		0.64
230.0	3.83		0.54
235.0	3.92		0.59
240.0	4.00		0.64
245.0	4.08		0.52
250.0	4.17		0.61
255.0	4.25		0.50
260.0	4.33		0.50
265.0	4.42		0.59
270.0	4.50		0.44
275.0	4.58		0.41
280.0	4.67		0.49
285.0	4.75		0.49
290.0	4.83		0.48
295.0	4.92		0.39
300.0	5.00		0.38
305.0	5.08		0.47
310.0	5.17		0.27
315.0	5.25		0.34
320.0	5.33		0.40
325.0	5.42		0.36
330.0	5.50		0.26
335.0	5.58		0.38
340.0	5.67		0.31
345.0	5.75		0.29
350.0	5.83		0.33

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP15-5.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-15-5		
Location:	Bridgeton Landfill		
Sounding Date:	22-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	164
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	6.350		
Longest Trace - Depth (ft):	20.833		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.350 / 20.833
0.0	0.00		26.81
5.0	0.08		18.20
10.0	0.17		17.35
15.0	0.25		17.28
20.0	0.33		17.67
25.0	0.42		18.21
30.0	0.50		18.66
35.0	0.58		19.15
40.0	0.67		19.75
45.0	0.75		20.26
50.0	0.83		20.85
55.0	0.92		21.51
60.0	1.00		22.14
65.0	1.08		22.58
70.0	1.17		23.31
75.0	1.25		23.79
80.0	1.33		24.18
85.0	1.42		24.74
90.0	1.50		25.28
95.0	1.58		25.69
100.0	1.67		26.00
105.0	1.75		26.27
110.0	1.83		26.72
115.0	1.92		26.86
120.0	2.00		27.07
125.0	2.08		27.29
130.0	2.17		27.59

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	6.350
		Depth (ft)	20.833
135.0	2.25		27.74
140.0	2.33		27.88
145.0	2.42		28.01
150.0	2.50		28.08
155.0	2.58		28.24
160.0	2.67		28.37
165.0	2.75		28.41
170.0	2.83		28.40
175.0	2.92		28.52
180.0	3.00		28.61
185.0	3.08		28.73
190.0	3.17		28.70
195.0	3.25		28.74
200.0	3.33		28.79
205.0	3.42		28.71
210.0	3.50		28.91
215.0	3.58		28.80
220.0	3.67		28.88
225.0	3.75		28.85
230.0	3.83		28.90
235.0	3.92		28.89
240.0	4.00		28.85
245.0	4.08		28.85
250.0	4.17		28.83
255.0	4.25		28.88
260.0	4.33		28.80
265.0	4.42		28.86
270.0	4.50		28.78
275.0	4.58		28.71
280.0	4.67		28.91
285.0	4.75		28.87
290.0	4.83		28.85
295.0	4.92		29.00
300.0	5.00		28.94

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP15-6.PPD
Job Number:	13-53075
Sounding ID:	GCPT-15-6
Location:	Bridgeton Landfill
Sounding Date:	22-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 66
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	91
Longest Trace - Depth (m):	6.150
Longest Trace - Depth (ft):	20.177
Longest Trace - Duration (s):	450.0
Longest Trace - Duration (min):	7.50
Longest Trace - Duration (hrs):	0.125
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 91 / 6.150 / 20.177
0.0	0.00		7.54
5.0	0.08		4.35
10.0	0.17		3.74
15.0	0.25		3.38
20.0	0.33		3.16
25.0	0.42		3.03
30.0	0.50		3.04
35.0	0.58		3.01
40.0	0.67		2.97
45.0	0.75		2.84
50.0	0.83		2.84
55.0	0.92		2.83
60.0	1.00		2.87
65.0	1.08		2.77
70.0	1.17		2.77
75.0	1.25		2.70
80.0	1.33		2.88
85.0	1.42		2.89
90.0	1.50		2.90
95.0	1.58		2.88
100.0	1.67		2.83
105.0	1.75		2.88
110.0	1.83		2.79
115.0	1.92		3.10
120.0	2.00		3.07
125.0	2.08		3.13
130.0	2.17		3.12

Time (s)	Time (min)	Trace No.	1
		Trace Points	91
		Depth (m)	6.150
		Depth (ft)	20.177
135.0	2.25		2.95
140.0	2.33		3.28
145.0	2.42		3.10
150.0	2.50		3.04
155.0	2.58		3.02
160.0	2.67		3.01
165.0	2.75		3.11
170.0	2.83		3.24
175.0	2.92		3.14
180.0	3.00		3.14
185.0	3.08		3.22
190.0	3.17		3.05
195.0	3.25		3.25
200.0	3.33		3.17
205.0	3.42		3.05
210.0	3.50		3.16
215.0	3.58		3.10
220.0	3.67		3.08
225.0	3.75		3.01
230.0	3.83		3.02
235.0	3.92		3.02
240.0	4.00		3.10
245.0	4.08		3.08
250.0	4.17		3.01
255.0	4.25		3.04
260.0	4.33		3.07
265.0	4.42		3.02
270.0	4.50		3.11
275.0	4.58		3.13
280.0	4.67		3.07
285.0	4.75		3.03
290.0	4.83		3.02
295.0	4.92		3.03
300.0	5.00		3.12
305.0	5.08		3.14
310.0	5.17		3.08
315.0	5.25		3.10
320.0	5.33		3.11
325.0	5.42		3.09
330.0	5.50		3.02
335.0	5.58		3.15
340.0	5.67		3.06
345.0	5.75		3.09
350.0	5.83		3.07
355.0	5.92		3.09
360.0	6.00		3.11
365.0	6.08		3.00
370.0	6.17		3.06
375.0	6.25		3.14
380.0	6.33		3.10
385.0	6.42		3.05
390.0	6.50		3.08
395.0	6.58		3.06

Time (s)	Time (min)	Trace No.	1
		Trace Points	91
		Depth (m)	6.150
		Depth (ft)	20.177
400.0	6.67		3.08
405.0	6.75		3.12
410.0	6.83		3.10
415.0	6.92		2.99
420.0	7.00		3.07
425.0	7.08		3.05
430.0	7.17		3.11
435.0	7.25		3.02
440.0	7.33		3.10
445.0	7.42		3.04
450.0	7.50		3.06

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP15-7.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-15-7		
Location:	Bridgeton Landfill		
Sounding Date:	22-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	118
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	17.300		
Longest Trace - Depth (ft):	56.758		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	7.150	17.300
		Depth (ft)	23.458	56.758
0.0	0.00		45.30	50.85
5.0	0.08		33.65	54.89
10.0	0.17		31.79	58.00
15.0	0.25		30.15	61.53
20.0	0.33		29.39	64.55
25.0	0.42		28.41	67.11
30.0	0.50		26.96	69.33
35.0	0.58		26.59	70.79
40.0	0.67		25.72	71.98
45.0	0.75		24.89	72.78
50.0	0.83		24.54	73.33
55.0	0.92		24.29	73.55
60.0	1.00		24.04	73.53
65.0	1.08		23.80	73.31
70.0	1.17		23.28	72.94
75.0	1.25		22.97	72.51
80.0	1.33		22.51	71.98
85.0	1.42		21.90	71.50
90.0	1.50		21.62	70.79
95.0	1.58		21.27	70.25
100.0	1.67		20.90	69.71
105.0	1.75		20.55	68.96
110.0	1.83		20.30	68.39
115.0	1.92		20.05	67.83
120.0	2.00		19.71	67.25
125.0	2.08		19.37	66.49
130.0	2.17		19.20	66.00

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	7.150	17.300
		Depth (ft)	23.458	56.758
135.0	2.25		18.97	65.45
140.0	2.33		18.86	64.81
145.0	2.42		18.62	64.28
150.0	2.50		18.42	63.81
155.0	2.58		18.03	63.22
160.0	2.67		17.88	62.68
165.0	2.75		17.74	62.27
170.0	2.83		17.40	61.74
175.0	2.92		17.35	61.48
180.0	3.00		17.13	61.00
185.0	3.08		16.89	60.46
190.0	3.17		16.62	60.05
195.0	3.25		16.57	59.69
200.0	3.33		16.35	59.31
205.0	3.42		16.17	58.93
210.0	3.50		15.99	58.51
215.0	3.58		15.95	58.21
220.0	3.67		15.66	57.92
225.0	3.75		15.54	57.52
230.0	3.83		15.31	57.24
235.0	3.92		15.13	56.89
240.0	4.00		15.05	56.58
245.0	4.08		15.04	56.29
250.0	4.17		14.98	55.94
255.0	4.25		14.85	55.59
260.0	4.33		14.72	55.42
265.0	4.42		14.59	55.19
270.0	4.50		14.50	54.94
275.0	4.58		14.37	54.65
280.0	4.67		14.30	54.39
285.0	4.75		14.24	54.16
290.0	4.83		14.21	54.06
295.0	4.92		14.15	53.67
300.0	5.00		14.03	53.45

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP15-8.PPD
Job Number:	13-53075
Sounding ID:	GCPT-15-8
Location:	Bridgeton Landfill
Sounding Date:	22-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 55
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	8.500
Longest Trace - Depth (ft):	27.887
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 8.500 / 27.887
0.0	0.00		73.27
5.0	0.08		130.94
10.0	0.17		134.54
15.0	0.25		140.54
20.0	0.33		143.94
25.0	0.42		146.63
30.0	0.50		148.11
35.0	0.58		149.34
40.0	0.67		150.25
45.0	0.75		150.94
50.0	0.83		151.37
55.0	0.92		151.71
60.0	1.00		151.97
65.0	1.08		152.05
70.0	1.17		152.10
75.0	1.25		151.94
80.0	1.33		151.87
85.0	1.42		151.73
90.0	1.50		151.53
95.0	1.58		151.33
100.0	1.67		151.09
105.0	1.75		150.76
110.0	1.83		150.51
115.0	1.92		150.13
120.0	2.00		149.84
125.0	2.08		149.46
130.0	2.17		149.22

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	8.500
		Depth (ft)	27.887
135.0	2.25		148.81
140.0	2.33		148.50
145.0	2.42		148.06
150.0	2.50		147.62
155.0	2.58		147.26
160.0	2.67		146.98
165.0	2.75		146.64
170.0	2.83		146.23
175.0	2.92		145.93
180.0	3.00		145.45
185.0	3.08		145.17
190.0	3.17		144.83
195.0	3.25		144.41
200.0	3.33		144.16
205.0	3.42		143.77
210.0	3.50		143.42
215.0	3.58		143.12
220.0	3.67		142.70
225.0	3.75		142.45
230.0	3.83		142.00
235.0	3.92		141.76
240.0	4.00		141.41
245.0	4.08		141.04
250.0	4.17		140.77
255.0	4.25		140.48
260.0	4.33		140.21
265.0	4.42		140.04
270.0	4.50		139.57
275.0	4.58		139.29
280.0	4.67		139.02
285.0	4.75		138.65
290.0	4.83		138.31
295.0	4.92		138.07
300.0	5.00		137.83

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-1.PPD
Job Number:	13-53075
Sounding ID:	GCPT-16-1
Location:	Bridgeton Landfill
Sounding Date:	23-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 45
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	5.200
Longest Trace - Depth (ft):	17.060
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 5.200 / 17.060
0.0	0.00		25.95
5.0	0.08		31.23
10.0	0.17		36.61
15.0	0.25		40.99
20.0	0.33		45.09
25.0	0.42		48.74
30.0	0.50		51.76
35.0	0.58		54.44
40.0	0.67		56.44
45.0	0.75		58.18
50.0	0.83		59.36
55.0	0.92		60.65
60.0	1.00		61.02
65.0	1.08		61.48
70.0	1.17		61.79
75.0	1.25		61.90
80.0	1.33		61.92
85.0	1.42		61.84
90.0	1.50		61.61
95.0	1.58		61.29
100.0	1.67		61.13
105.0	1.75		60.54
110.0	1.83		60.21
115.0	1.92		59.85
120.0	2.00		59.36
125.0	2.08		58.84
130.0	2.17		58.26

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	5.200
		Depth (ft)	17.060
135.0	2.25		57.64
140.0	2.33		57.19
145.0	2.42		56.60
150.0	2.50		56.03
155.0	2.58		55.51
160.0	2.67		55.83
165.0	2.75		54.16
170.0	2.83		53.71
175.0	2.92		53.04
180.0	3.00		52.56
185.0	3.08		51.94
190.0	3.17		51.30
195.0	3.25		50.82
200.0	3.33		50.24
205.0	3.42		49.80
210.0	3.50		49.18
215.0	3.58		48.54
220.0	3.67		47.90
225.0	3.75		47.51
230.0	3.83		46.89
235.0	3.92		46.59
240.0	4.00		45.85
245.0	4.08		45.49
250.0	4.17		44.91
255.0	4.25		44.39
260.0	4.33		43.98
265.0	4.42		43.42
270.0	4.50		42.97
275.0	4.58		42.55
280.0	4.67		42.15
285.0	4.75		41.56
290.0	4.83		41.22
295.0	4.92		40.71
300.0	5.00		40.31

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-2.PPD
Job Number:	13-53075
Sounding ID:	GCPT-16-2
Location:	Bridgeton Landfill
Sounding Date:	23-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 40
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	7.600
Longest Trace - Depth (ft):	24.934
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 7.600 / 24.934
0.0	0.00		7.65
5.0	0.08		12.06
10.0	0.17		14.33
15.0	0.25		14.74
20.0	0.33		14.86
25.0	0.42		14.83
30.0	0.50		14.63
35.0	0.58		14.51
40.0	0.67		14.39
45.0	0.75		14.16
50.0	0.83		14.05
55.0	0.92		13.81
60.0	1.00		13.70
65.0	1.08		13.47
70.0	1.17		13.36
75.0	1.25		13.12
80.0	1.33		13.01
85.0	1.42		12.93
90.0	1.50		12.83
95.0	1.58		12.64
100.0	1.67		12.53
105.0	1.75		12.47
110.0	1.83		12.22
115.0	1.92		12.18
120.0	2.00		12.04
125.0	2.08		11.97
130.0	2.17		11.81

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	7.600
		Depth (ft)	24.934
135.0	2.25		11.71
140.0	2.33		11.60
145.0	2.42		11.48
150.0	2.50		11.37
155.0	2.58		11.27
160.0	2.67		11.20
165.0	2.75		11.14
170.0	2.83		10.98
175.0	2.92		10.96
180.0	3.00		10.82
185.0	3.08		10.81
190.0	3.17		10.73
195.0	3.25		10.63
200.0	3.33		10.60
205.0	3.42		10.53
210.0	3.50		10.50
215.0	3.58		10.44
220.0	3.67		10.24
225.0	3.75		10.30
230.0	3.83		10.20
235.0	3.92		10.16
240.0	4.00		10.05
245.0	4.08		10.04
250.0	4.17		10.01
255.0	4.25		9.96
260.0	4.33		9.94
265.0	4.42		9.86
270.0	4.50		9.81
275.0	4.58		9.76
280.0	4.67		9.76
285.0	4.75		9.68
290.0	4.83		9.67
295.0	4.92		9.52
300.0	5.00		9.50

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-3.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-16-3		
Location:	Bridgeton Landfill		
Sounding Date:	23-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	44
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	116		
Longest Trace - Depth (m):	4.950		
Longest Trace - Depth (ft):	16.240		
Longest Trace - Duration (s):	575.0		
Longest Trace - Duration (min):	9.58		
Longest Trace - Duration (hrs):	0.160		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 116 / 4.950 / 16.240	2 / 61 / 9.350 / 30.675
0.0	0.00		35.14	11.63
5.0	0.08		29.08	-3.13
10.0	0.17		26.26	-1.27
15.0	0.25		24.79	0.11
20.0	0.33		23.31	0.68
25.0	0.42		22.07	1.32
30.0	0.50		20.98	1.67
35.0	0.58		20.14	2.09
40.0	0.67		19.50	2.22
45.0	0.75		18.70	2.21
50.0	0.83		18.04	2.47
55.0	0.92		17.70	2.52
60.0	1.00		17.31	2.48
65.0	1.08		17.04	2.75
70.0	1.17		16.64	2.65
75.0	1.25		16.50	2.73
80.0	1.33		16.16	2.76
85.0	1.42		15.94	2.90
90.0	1.50		15.70	2.81
95.0	1.58		15.39	2.90
100.0	1.67		15.38	2.79
105.0	1.75		15.12	2.84
110.0	1.83		14.98	2.98
115.0	1.92		14.73	2.92
120.0	2.00		14.47	2.93
125.0	2.08		14.46	3.01
130.0	2.17		14.45	2.91

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	116	61
		Depth (m)	4.950	9.350
		Depth (ft)	16.240	30.675
135.0	2.25		14.23	2.96
140.0	2.33		14.02	3.00
145.0	2.42		13.97	2.96
150.0	2.50		13.83	2.96
155.0	2.58		13.67	2.93
160.0	2.67		13.55	2.98
165.0	2.75		13.32	2.89
170.0	2.83		13.46	3.02
175.0	2.92		13.30	2.90
180.0	3.00		13.19	3.00
185.0	3.08		13.17	3.01
190.0	3.17		13.04	3.02
195.0	3.25		12.68	2.99
200.0	3.33		12.87	2.98
205.0	3.42		12.59	3.07
210.0	3.50		12.63	2.99
215.0	3.58		12.52	3.08
220.0	3.67		12.47	3.09
225.0	3.75		12.42	3.06
230.0	3.83		12.23	3.03
235.0	3.92		12.39	3.03
240.0	4.00		12.37	3.10
245.0	4.08		12.11	3.11
250.0	4.17		12.05	3.00
255.0	4.25		11.91	3.01
260.0	4.33		12.08	3.10
265.0	4.42		11.59	3.04
270.0	4.50		11.73	3.06
275.0	4.58		11.92	3.05
280.0	4.67		11.68	3.00
285.0	4.75		11.76	3.02
290.0	4.83		11.73	3.07
295.0	4.92		11.60	3.01
300.0	5.00		11.56	3.16
305.0	5.08		11.44	
310.0	5.17		11.48	
315.0	5.25		11.38	
320.0	5.33		11.18	
325.0	5.42		11.25	
330.0	5.50		11.09	
335.0	5.58		11.14	
340.0	5.67		11.29	
345.0	5.75		11.13	
350.0	5.83		11.04	
355.0	5.92		11.06	
360.0	6.00		10.97	
365.0	6.08		10.87	
370.0	6.17		10.95	
375.0	6.25		10.93	
380.0	6.33		10.85	
385.0	6.42		10.42	
390.0	6.50		10.86	
395.0	6.58		10.72	

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	116	61
		Depth (m)	4.950	9.350
		Depth (ft)	16.240	30.675
400.0	6.67		10.74	
405.0	6.75		10.67	
410.0	6.83		10.70	
415.0	6.92		10.65	
420.0	7.00		10.68	
425.0	7.08		10.66	
430.0	7.17		10.53	
435.0	7.25		10.49	
440.0	7.33		10.55	
445.0	7.42		10.38	
450.0	7.50		10.24	
455.0	7.58		10.39	
460.0	7.67		10.44	
465.0	7.75		10.39	
470.0	7.83		10.21	
475.0	7.92		10.20	
480.0	8.00		10.21	
485.0	8.08		10.24	
490.0	8.17		10.18	
495.0	8.25		10.15	
500.0	8.33		10.15	
505.0	8.42		10.06	
510.0	8.50		10.05	
515.0	8.58		10.01	
520.0	8.67		9.96	
525.0	8.75		10.02	
530.0	8.83		9.98	
535.0	8.92		10.01	
540.0	9.00		10.02	
545.0	9.08		9.90	
550.0	9.17		9.78	
555.0	9.25		9.87	
560.0	9.33		9.82	
565.0	9.42		9.83	
570.0	9.50		9.86	
575.0	9.58		9.81	

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-4.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-16-4		
Location:	Bridgeton Landfill		
Sounding Date:	23-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	179
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	5.000		
Longest Trace - Depth (ft):	16.404		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. Trace Points Depth (m) Depth (ft)	1 61 5.000 16.404
0.0	0.00		2.40
5.0	0.08		2.87
10.0	0.17		2.34
15.0	0.25		2.03
20.0	0.33		1.93
25.0	0.42		1.72
30.0	0.50		1.58
35.0	0.58		1.61
40.0	0.67		1.49
45.0	0.75		1.45
50.0	0.83		1.41
55.0	0.92		1.35
60.0	1.00		1.38
65.0	1.08		1.31
70.0	1.17		1.34
75.0	1.25		1.33
80.0	1.33		1.21
85.0	1.42		1.12
90.0	1.50		1.14
95.0	1.58		1.12
100.0	1.67		1.19
105.0	1.75		1.14
110.0	1.83		1.14
115.0	1.92		1.12
120.0	2.00		0.99
125.0	2.08		1.09
130.0	2.17		1.04

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	5.000
		Depth (ft)	16.404
135.0	2.25		0.99
140.0	2.33		1.09
145.0	2.42		1.10
150.0	2.50		1.14
155.0	2.58		1.15
160.0	2.67		1.19
165.0	2.75		1.10
170.0	2.83		1.20
175.0	2.92		1.11
180.0	3.00		1.16
185.0	3.08		1.11
190.0	3.17		1.17
195.0	3.25		1.26
200.0	3.33		1.16
205.0	3.42		1.11
210.0	3.50		1.10
215.0	3.58		1.17
220.0	3.67		1.20
225.0	3.75		1.19
230.0	3.83		1.25
235.0	3.92		1.24
240.0	4.00		1.21
245.0	4.08		1.29
250.0	4.17		1.08
255.0	4.25		1.21
260.0	4.33		1.18
265.0	4.42		1.28
270.0	4.50		1.13
275.0	4.58		1.11
280.0	4.67		1.22
285.0	4.75		1.14
290.0	4.83		1.35
295.0	4.92		1.31
300.0	5.00		1.21

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-5.PPD
Job Number:	13-53075
Sounding ID:	GCPT-16-5
Location:	Bridgeton Landfill
Sounding Date:	23-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 20
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	3.650
Longest Trace - Depth (ft):	11.975
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 3.650 / 11.975
0.0	0.00		132.83
5.0	0.08		173.70
10.0	0.17		168.91
15.0	0.25		164.77
20.0	0.33		160.74
25.0	0.42		157.26
30.0	0.50		153.66
35.0	0.58		150.75
40.0	0.67		148.13
45.0	0.75		145.11
50.0	0.83		143.29
55.0	0.92		141.09
60.0	1.00		139.07
65.0	1.08		136.62
70.0	1.17		134.68
75.0	1.25		132.48
80.0	1.33		130.66
85.0	1.42		129.08
90.0	1.50		128.03
95.0	1.58		125.79
100.0	1.67		124.06
105.0	1.75		122.37
110.0	1.83		121.65
115.0	1.92		119.93
120.0	2.00		118.05
125.0	2.08		117.48
130.0	2.17		115.64

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	3.650
		Depth (ft)	11.975
135.0	2.25		114.34
140.0	2.33		113.00
145.0	2.42		111.76
150.0	2.50		111.19
155.0	2.58		109.69
160.0	2.67		108.42
165.0	2.75		107.26
170.0	2.83		106.60
175.0	2.92		105.18
180.0	3.00		104.16
185.0	3.08		103.31
190.0	3.17		102.72
195.0	3.25		101.41
200.0	3.33		100.33
205.0	3.42		99.44
210.0	3.50		98.21
215.0	3.58		98.19
220.0	3.67		96.92
225.0	3.75		96.00
230.0	3.83		95.06
235.0	3.92		94.26
240.0	4.00		93.91
245.0	4.08		92.98
250.0	4.17		92.04
255.0	4.25		91.42
260.0	4.33		90.43
265.0	4.42		90.01
270.0	4.50		89.31
275.0	4.58		89.03
280.0	4.67		88.23
285.0	4.75		87.46
290.0	4.83		86.73
295.0	4.92		86.09
300.0	5.00		85.35

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-6.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-16-6		
Location:	Bridgeton Landfill		
Sounding Date:	23-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	15
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	7.750		
Longest Trace - Depth (ft):	25.426		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.850 / 22.473	2 / 61 / 7.750 / 25.426
0.0	0.00		6.20	36.31
5.0	0.08		3.51	21.11
10.0	0.17		3.28	17.70
15.0	0.25		3.07	15.71
20.0	0.33		2.86	1.36
25.0	0.42		2.81	3.53
30.0	0.50		2.61	4.11
35.0	0.58		2.64	4.21
40.0	0.67		2.42	4.12
45.0	0.75		2.36	3.83
50.0	0.83		2.28	3.68
55.0	0.92		2.11	3.42
60.0	1.00		2.10	3.35
65.0	1.08		1.97	3.31
70.0	1.17		1.96	3.16
75.0	1.25		1.92	2.99
80.0	1.33		1.80	2.84
85.0	1.42		1.75	2.76
90.0	1.50		1.88	2.67
95.0	1.58		1.82	2.50
100.0	1.67		1.73	2.40
105.0	1.75		1.64	2.42
110.0	1.83		1.73	2.25
115.0	1.92		1.55	2.18
120.0	2.00		1.59	2.13
125.0	2.08		1.59	2.13
130.0	2.17		1.53	1.99

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.850	7.750
		Depth (ft)	22.473	25.426
135.0	2.25		1.46	2.00
140.0	2.33		1.55	1.99
145.0	2.42		1.62	1.97
150.0	2.50		1.49	1.88
155.0	2.58		1.59	1.74
160.0	2.67		1.54	1.88
165.0	2.75		1.53	1.86
170.0	2.83		1.37	1.84
175.0	2.92		1.34	1.54
180.0	3.00		1.26	1.77
185.0	3.08		1.35	1.63
190.0	3.17		1.31	1.52
195.0	3.25		1.31	1.65
200.0	3.33		1.35	1.46
205.0	3.42		1.20	1.64
210.0	3.50		1.26	1.55
215.0	3.58		1.18	1.57
220.0	3.67		1.28	1.50
225.0	3.75		1.07	1.48
230.0	3.83		1.20	1.46
235.0	3.92		1.21	1.38
240.0	4.00		1.14	1.41
245.0	4.08		1.19	1.29
250.0	4.17		1.10	1.44
255.0	4.25		0.97	1.47
260.0	4.33		1.03	1.36
265.0	4.42		0.92	1.28
270.0	4.50		0.97	1.31
275.0	4.58		1.13	1.42
280.0	4.67		1.05	1.31
285.0	4.75		1.04	1.13
290.0	4.83		0.88	1.32
295.0	4.92		0.93	1.31
300.0	5.00		0.92	1.25

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-7.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-16-7		
Location:	Bridgeton Landfill		
Sounding Date:	23-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	41
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	9.150		
Longest Trace - Depth (ft):	30.019		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 9.150 / 30.019
0.0	0.00		6.66
5.0	0.08		6.79
10.0	0.17		6.62
15.0	0.25		6.35
20.0	0.33		6.39
25.0	0.42		6.27
30.0	0.50		6.15
35.0	0.58		6.19
40.0	0.67		6.07
45.0	0.75		5.91
50.0	0.83		5.85
55.0	0.92		5.99
60.0	1.00		5.89
65.0	1.08		5.89
70.0	1.17		5.64
75.0	1.25		5.75
80.0	1.33		5.59
85.0	1.42		5.57
90.0	1.50		5.64
95.0	1.58		5.56
100.0	1.67		5.51
105.0	1.75		5.52
110.0	1.83		5.29
115.0	1.92		5.44
120.0	2.00		5.28
125.0	2.08		5.36
130.0	2.17		5.21

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	9.150
		Depth (ft)	30.019
135.0	2.25		5.30
140.0	2.33		5.24
145.0	2.42		5.14
150.0	2.50		5.31
155.0	2.58		5.08
160.0	2.67		5.19
165.0	2.75		5.04
170.0	2.83		4.97
175.0	2.92		4.94
180.0	3.00		5.06
185.0	3.08		5.04
190.0	3.17		4.92
195.0	3.25		4.90
200.0	3.33		4.85
205.0	3.42		4.90
210.0	3.50		4.87
215.0	3.58		4.81
220.0	3.67		4.82
225.0	3.75		4.72
230.0	3.83		4.72
235.0	3.92		4.68
240.0	4.00		4.74
245.0	4.08		4.78
250.0	4.17		4.76
255.0	4.25		4.74
260.0	4.33		4.68
265.0	4.42		4.63
270.0	4.50		4.49
275.0	4.58		4.63
280.0	4.67		4.60
285.0	4.75		4.47
290.0	4.83		4.56
295.0	4.92		4.51
300.0	5.00		4.44

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP16-8.PPD
Job Number:	13-53075
Sounding ID:	GCPT-16-8
Location:	Bridgeton Landfill
Sounding Date:	23-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 22
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	4.350
Longest Trace - Depth (ft):	14.271
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 4.350 / 14.271
0.0	0.00		19.31
5.0	0.08		26.26
10.0	0.17		25.10
15.0	0.25		25.18
20.0	0.33		25.28
25.0	0.42		25.26
30.0	0.50		25.25
35.0	0.58		25.29
40.0	0.67		25.31
45.0	0.75		24.57
50.0	0.83		24.94
55.0	0.92		25.05
60.0	1.00		25.22
65.0	1.08		25.13
70.0	1.17		25.04
75.0	1.25		25.02
80.0	1.33		25.00
85.0	1.42		24.67
90.0	1.50		24.59
95.0	1.58		24.47
100.0	1.67		24.33
105.0	1.75		24.13
110.0	1.83		24.04
115.0	1.92		23.59
120.0	2.00		23.39
125.0	2.08		23.09
130.0	2.17		23.17

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	4.350
		Depth (ft)	14.271
135.0	2.25		23.06
140.0	2.33		22.70
145.0	2.42		22.46
150.0	2.50		22.38
155.0	2.58		22.18
160.0	2.67		22.13
165.0	2.75		21.93
170.0	2.83		21.79
175.0	2.92		21.61
180.0	3.00		21.50
185.0	3.08		21.27
190.0	3.17		21.03
195.0	3.25		20.68
200.0	3.33		20.71
205.0	3.42		20.55
210.0	3.50		20.41
215.0	3.58		20.34
220.0	3.67		20.22
225.0	3.75		20.04
230.0	3.83		19.76
235.0	3.92		19.74
240.0	4.00		19.44
245.0	4.08		19.31
250.0	4.17		19.39
255.0	4.25		19.11
260.0	4.33		19.04
265.0	4.42		19.09
270.0	4.50		18.80
275.0	4.58		18.76
280.0	4.67		18.65
285.0	4.75		18.54
290.0	4.83		18.43
295.0	4.92		18.22
300.0	5.00		18.15

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP28A.PPD
Job Number:	13-53075
Sounding ID:	GCPT-28A
Location:	Bridgeton Landfill
Sounding Date:	14-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 198
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	114
Longest Trace - Depth (m):	7.050
Longest Trace - Depth (ft):	23.130
Longest Trace - Duration (s):	565.0
Longest Trace - Duration (min):	9.42
Longest Trace - Duration (hrs):	0.157
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 114 / 7.050 / 23.130
0.0	0.00		-0.13
5.0	0.08		-0.20
10.0	0.17		-0.05
15.0	0.25		-0.12
20.0	0.33		0.04
25.0	0.42		0.02
30.0	0.50		0.14
35.0	0.58		0.18
40.0	0.67		0.28
45.0	0.75		0.32
50.0	0.83		0.23
55.0	0.92		0.26
60.0	1.00		0.33
65.0	1.08		0.28
70.0	1.17		0.38
75.0	1.25		0.40
80.0	1.33		0.31
85.0	1.42		0.38
90.0	1.50		0.35
95.0	1.58		0.39
100.0	1.67		0.35
105.0	1.75		0.37
110.0	1.83		0.37
115.0	1.92		0.40
120.0	2.00		0.47
125.0	2.08		0.43
130.0	2.17		0.33

Time (s)	Time (min)	Trace No.	1
		Trace Points	114
		Depth (m)	7.050
		Depth (ft)	23.130
135.0	2.25		0.35
140.0	2.33		0.39
145.0	2.42		0.38
150.0	2.50		0.46
155.0	2.58		0.44
160.0	2.67		0.40
165.0	2.75		0.43
170.0	2.83		0.47
175.0	2.92		0.39
180.0	3.00		0.40
185.0	3.08		0.52
190.0	3.17		0.42
195.0	3.25		0.49
200.0	3.33		0.48
205.0	3.42		0.51
210.0	3.50		0.41
215.0	3.58		0.42
220.0	3.67		0.45
225.0	3.75		0.52
230.0	3.83		0.37
235.0	3.92		0.38
240.0	4.00		0.40
245.0	4.08		0.45
250.0	4.17		0.41
255.0	4.25		0.44
260.0	4.33		0.55
265.0	4.42		0.59
270.0	4.50		0.44
275.0	4.58		0.47
280.0	4.67		0.52
285.0	4.75		0.49
290.0	4.83		0.39
295.0	4.92		0.50
300.0	5.00		0.50
305.0	5.08		0.50
310.0	5.17		0.50
315.0	5.25		0.44
320.0	5.33		0.49
325.0	5.42		0.47
330.0	5.50		0.50
335.0	5.58		0.44
340.0	5.67		0.47
345.0	5.75		0.45
350.0	5.83		0.45
355.0	5.92		0.56
360.0	6.00		0.47
365.0	6.08		0.55
370.0	6.17		0.51
375.0	6.25		0.57
380.0	6.33		0.47
385.0	6.42		0.48
390.0	6.50		0.45
395.0	6.58		0.58

Time (s)	Time (min)	Trace No.	1
		Trace Points	114
		Depth (m)	7.050
		Depth (ft)	23.130
400.0	6.67		0.48
405.0	6.75		0.58
410.0	6.83		0.58
415.0	6.92		0.49
420.0	7.00		0.58
425.0	7.08		0.45
430.0	7.17		0.59
435.0	7.25		0.50
440.0	7.33		0.48
445.0	7.42		0.49
450.0	7.50		0.52
455.0	7.58		0.37
460.0	7.67		0.53
465.0	7.75		0.51
470.0	7.83		0.55
475.0	7.92		0.55
480.0	8.00		0.54
485.0	8.08		0.54
490.0	8.17		0.48
495.0	8.25		0.61
500.0	8.33		0.48
505.0	8.42		0.58
510.0	8.50		0.57
515.0	8.58		0.52
520.0	8.67		0.55
525.0	8.75		0.53
530.0	8.83		0.48
535.0	8.92		0.54
540.0	9.00		0.47
545.0	9.08		0.53
550.0	9.17		0.48
555.0	9.25		0.62
560.0	9.33		0.58
565.0	9.42		0.47

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP28.PPD
Job Number:	13-53075
Sounding ID:	GCPT-28
Location:	Bridgeton Landfill
Sounding Date:	13-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 57
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	39
Longest Trace - Depth (m):	6.100
Longest Trace - Depth (ft):	20.013
Longest Trace - Duration (s):	190.0
Longest Trace - Duration (min):	3.17
Longest Trace - Duration (hrs):	0.053
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. Trace Points Depth (m) Depth (ft)	1 39 6.100 20.013
0.0	0.00		-0.70
5.0	0.08		-0.82
10.0	0.17		-0.56
15.0	0.25		-0.30
20.0	0.33		-0.56
25.0	0.42		-0.44
30.0	0.50		-0.55
35.0	0.58		-0.42
40.0	0.67		-0.51
45.0	0.75		-0.38
50.0	0.83		-0.51
55.0	0.92		-0.31
60.0	1.00		-0.40
65.0	1.08		-0.20
70.0	1.17		-0.35
75.0	1.25		-0.24
80.0	1.33		-0.23
85.0	1.42		-0.08
90.0	1.50		-0.13
95.0	1.58		-0.01
100.0	1.67		-0.12
105.0	1.75		-0.16
110.0	1.83		-0.10
115.0	1.92		-0.06
120.0	2.00		-0.11
125.0	2.08		-0.18
130.0	2.17		-0.01

Time (s)	Time (min)	Trace No.	1
		Trace Points	39
		Depth (m)	6.100
		Depth (ft)	20.013
135.0	2.25		0.01
140.0	2.33		0.11
145.0	2.42		-0.04
150.0	2.50		0.09
155.0	2.58		-0.10
160.0	2.67		-0.06
165.0	2.75		-0.06
170.0	2.83		-0.08
175.0	2.92		0.02
180.0	3.00		0.05
185.0	3.08		-0.11
190.0	3.17		-0.06

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP108.PPD
Job Number:	13-53075
Sounding ID:	GCPT-108
Location:	Bridgeton Landfill
Sounding Date:	15-Nov-2013
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 42
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	61
Longest Trace - Depth (m):	12.200
Longest Trace - Depth (ft):	40.026
Longest Trace - Duration (s):	300.0
Longest Trace - Duration (min):	5.00
Longest Trace - Duration (hrs):	0.083
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 12.200 / 40.026
0.0	0.00		4.35
5.0	0.08		3.77
10.0	0.17		3.53
15.0	0.25		3.50
20.0	0.33		3.42
25.0	0.42		3.42
30.0	0.50		3.43
35.0	0.58		3.43
40.0	0.67		3.49
45.0	0.75		3.45
50.0	0.83		3.52
55.0	0.92		3.44
60.0	1.00		3.44
65.0	1.08		3.46
70.0	1.17		3.47
75.0	1.25		3.43
80.0	1.33		3.40
85.0	1.42		3.55
90.0	1.50		3.46
95.0	1.58		3.50
100.0	1.67		3.40
105.0	1.75		3.40
110.0	1.83		3.54
115.0	1.92		3.40
120.0	2.00		3.43
125.0	2.08		3.49
130.0	2.17		3.43

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	12.200
		Depth (ft)	40.026
135.0	2.25		3.43
140.0	2.33		3.46
145.0	2.42		3.49
150.0	2.50		3.48
155.0	2.58		3.41
160.0	2.67		3.45
165.0	2.75		3.46
170.0	2.83		3.45
175.0	2.92		3.45
180.0	3.00		3.51
185.0	3.08		3.44
190.0	3.17		3.58
195.0	3.25		3.48
200.0	3.33		3.43
205.0	3.42		3.51
210.0	3.50		3.39
215.0	3.58		3.53
220.0	3.67		3.47
225.0	3.75		3.53
230.0	3.83		3.48
235.0	3.92		3.45
240.0	4.00		3.44
245.0	4.08		3.50
250.0	4.17		3.51
255.0	4.25		3.53
260.0	4.33		3.50
265.0	4.42		3.56
270.0	4.50		3.54
275.0	4.58		3.51
280.0	4.67		3.51
285.0	4.75		3.53
290.0	4.83		3.43
295.0	4.92		3.53
300.0	5.00		3.53

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP111A.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-111A		
Location:	Bridgeton Landfill		
Sounding Date:	13-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	88
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	32		
Longest Trace - Depth (m):	12.450		
Longest Trace - Depth (ft):	40.846		
Longest Trace - Duration (s):	155.0		
Longest Trace - Duration (min):	2.58		
Longest Trace - Duration (hrs):	0.043		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 32 12.450 40.846	2 16 14.450 47.408	3 15 15.250 50.032
0.0	0.00		1.62	5.12	6.97
5.0	0.08		1.40	5.19	6.99
10.0	0.17		1.46	5.17	6.92
15.0	0.25		1.58	5.12	6.76
20.0	0.33		1.73	5.17	6.70
25.0	0.42		1.74	5.15	6.70
30.0	0.50		1.83	5.20	6.62
35.0	0.58		1.77	5.13	6.69
40.0	0.67		1.78	5.19	6.67
45.0	0.75		1.79	5.18	6.60
50.0	0.83		1.80	5.09	6.53
55.0	0.92		1.86	5.05	6.47
60.0	1.00		1.81	5.14	6.49
65.0	1.08		1.88	5.03	6.38
70.0	1.17		1.91	5.01	6.36
75.0	1.25		1.88	5.09	
80.0	1.33		1.91		
85.0	1.42		1.84		
90.0	1.50		1.92		
95.0	1.58		1.92		
100.0	1.67		1.86		
105.0	1.75		1.85		
110.0	1.83		1.86		
115.0	1.92		1.86		
120.0	2.00		1.84		
125.0	2.08		1.88		
130.0	2.17		1.89		

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	32	16	15
		Depth (m)	12.450	14.450	15.250
		Depth (ft)	40.846	47.408	50.032
135.0	2.25		1.86		
140.0	2.33		1.93		
145.0	2.42		1.72		
150.0	2.50		1.83		
155.0	2.58		1.82		

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP111.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-111		
Location:	Bridgeton Landfill		
Sounding Date:	12-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	4	Of	32
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	4		
Longest Trace - Points:	181		
Longest Trace - Depth (m):	11.800		
Longest Trace - Depth (ft):	38.713		
Longest Trace - Duration (s):	900.0		
Longest Trace - Duration (min):	15.00		
Longest Trace - Duration (hrs):	0.250		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 133 2.650 8.694	2 81 7.350 24.114	3 50 7.550 24.770	4 181 11.800 38.713
0.0	0.00		-10.84	2.33	8.08	8.86
5.0	0.08		-6.27	2.59	3.91	9.07
10.0	0.17		-4.06	2.76	3.35	8.87
15.0	0.25		-3.06	2.74	3.26	8.79
20.0	0.33		-2.26	2.80	3.33	8.64
25.0	0.42		-1.85	2.87	3.46	8.47
30.0	0.50		-1.45	2.91	3.51	8.40
35.0	0.58		-1.16	2.88	3.52	8.37
40.0	0.67		-0.88	2.81	3.54	8.28
45.0	0.75		-0.72	2.87	3.57	8.28
50.0	0.83		-0.55	2.94	3.59	8.17
55.0	0.92		-0.35	2.95	3.50	8.06
60.0	1.00		-0.25	3.01	3.50	7.97
65.0	1.08		-0.28	2.97	3.55	7.88
70.0	1.17		-0.16	2.95	3.51	7.89
75.0	1.25		0.06	2.97	3.50	7.89
80.0	1.33		0.04	3.01	3.54	7.68
85.0	1.42		0.31	3.02	3.57	7.66
90.0	1.50		0.41	3.04	3.60	7.69
95.0	1.58		0.46	2.97	3.53	7.57
100.0	1.67		0.54	3.07	3.54	7.58
105.0	1.75		0.67	3.04	3.57	7.49
110.0	1.83		0.85	3.05	3.49	7.41
115.0	1.92		0.85	3.09	3.48	7.34
120.0	2.00		1.01	3.14	3.57	7.30
125.0	2.08		1.13	3.11	3.56	7.29
130.0	2.17		1.13	3.05	3.61	7.21

Time (s)	Time (min)	Trace No.	1	2	3	4
		Trace Points	133	81	50	181
		Depth (m)	2.650	7.350	7.550	11.800
		Depth (ft)	8.694	24.114	24.770	38.713
135.0	2.25		1.24	3.08	3.50	7.22
140.0	2.33		1.27	3.00	3.57	7.19
145.0	2.42		1.33	3.07	3.57	7.10
150.0	2.50		1.49	3.09	3.57	7.09
155.0	2.58		1.50	3.06	3.61	7.01
160.0	2.67		1.67	3.09	3.58	6.97
165.0	2.75		1.32	3.08	3.58	7.01
170.0	2.83		1.34	3.04	3.59	6.89
175.0	2.92		1.54	3.02	3.62	6.82
180.0	3.00		1.58	3.15	3.64	6.78
185.0	3.08		1.75	3.09	3.59	6.74
190.0	3.17		1.80	2.99	3.61	6.70
195.0	3.25		1.91	3.04	3.54	6.68
200.0	3.33		1.93	3.06	3.60	6.63
205.0	3.42		2.03	3.11	3.59	6.60
210.0	3.50		2.14	3.11	3.55	6.55
215.0	3.58		2.16	3.12	3.59	6.51
220.0	3.67		2.23	3.14	3.62	6.51
225.0	3.75		2.28	3.05	3.65	6.41
230.0	3.83		2.38	3.12	3.60	6.38
235.0	3.92		2.42	3.16	3.55	6.36
240.0	4.00		2.48	3.10	3.61	6.31
245.0	4.08		2.43	3.11	3.59	6.31
250.0	4.17		2.54	3.12		6.23
255.0	4.25		2.63	3.09		6.17
260.0	4.33		2.69	3.14		6.12
265.0	4.42		2.79	3.13		6.04
270.0	4.50		2.83	3.17		6.03
275.0	4.58		2.84	3.16		6.01
280.0	4.67		2.82	3.18		5.95
285.0	4.75		2.87	3.11		5.96
290.0	4.83		2.91	3.16		5.95
295.0	4.92		2.95	3.16		5.95
300.0	5.00		2.99	3.18		5.86
305.0	5.08		3.02	3.07		5.94
310.0	5.17		3.02	3.14		5.80
315.0	5.25		3.09	3.17		5.79
320.0	5.33		3.14	3.10		5.72
325.0	5.42		3.05	3.12		5.75
330.0	5.50		3.10	3.16		5.71
335.0	5.58		3.18	3.14		5.71
340.0	5.67		3.19	3.14		5.61
345.0	5.75		3.10	3.10		5.57
350.0	5.83		3.16	3.15		5.59
355.0	5.92		3.20	3.15		5.56
360.0	6.00		3.17	3.21		5.57
365.0	6.08		3.22	3.04		5.49
370.0	6.17		3.23	3.05		5.46
375.0	6.25		3.25	3.09		5.51
380.0	6.33		3.24	3.16		5.44
385.0	6.42		3.29	3.15		5.46
390.0	6.50		3.34	3.15		5.37
395.0	6.58		3.26	3.11		5.38

Time (s)	Time (min)	Trace No.	1	2	3	4
		Trace Points	133	81	50	181
		Depth (m)	2.650	7.350	7.550	11.800
		Depth (ft)	8.694	24.114	24.770	38.713
400.0	6.67		3.24	3.10		5.35
405.0	6.75		3.34			5.34
410.0	6.83		3.34			5.29
415.0	6.92		3.41			5.27
420.0	7.00		3.43			5.27
425.0	7.08		3.34			5.20
430.0	7.17		3.37			5.07
435.0	7.25		3.41			5.19
440.0	7.33		3.33			5.21
445.0	7.42		3.37			5.16
450.0	7.50		3.38			5.14
455.0	7.58		3.38			5.09
460.0	7.67		3.35			5.06
465.0	7.75		3.42			5.10
470.0	7.83		3.43			5.03
475.0	7.92		3.41			4.98
480.0	8.00		3.37			4.92
485.0	8.08		3.46			4.91
490.0	8.17		3.39			4.92
495.0	8.25		3.38			4.93
500.0	8.33		3.57			4.93
505.0	8.42		3.39			4.90
510.0	8.50		3.46			4.82
515.0	8.58		3.40			4.90
520.0	8.67		3.42			4.84
525.0	8.75		3.41			4.79
530.0	8.83		3.46			4.77
535.0	8.92		3.47			4.82
540.0	9.00		3.39			4.71
545.0	9.08		3.46			4.71
550.0	9.17		3.46			4.73
555.0	9.25		3.46			4.70
560.0	9.33		3.44			4.67
565.0	9.42		3.43			4.61
570.0	9.50		3.44			4.62
575.0	9.58		3.36			4.57
580.0	9.67		3.40			4.62
585.0	9.75		3.50			4.53
590.0	9.83		3.52			4.58
595.0	9.92		3.43			4.54
600.0	10.00		3.47			4.57
605.0	10.08		3.42			4.51
610.0	10.17		3.48			4.46
615.0	10.25		3.47			4.48
620.0	10.33		3.42			4.41
625.0	10.42		3.45			4.48
630.0	10.50		3.42			4.37
635.0	10.58		3.38			4.43
640.0	10.67		3.47			4.37
645.0	10.75		3.39			4.44
650.0	10.83		3.46			4.41
655.0	10.92		3.42			4.29
660.0	11.00		3.45			4.40

Time (s)	Time (min)	Trace No.	1	2	3	4
		Trace Points	133	81	50	181
		Depth (m)	2.650	7.350	7.550	11.800
		Depth (ft)	8.694	24.114	24.770	38.713
665.0	11.08					4.33
670.0	11.17					4.27
675.0	11.25					4.31
680.0	11.33					4.26
685.0	11.42					4.26
690.0	11.50					4.31
695.0	11.58					4.27
700.0	11.67					4.21
705.0	11.75					4.21
710.0	11.83					4.14
715.0	11.92					4.18
720.0	12.00					4.16
725.0	12.08					4.14
730.0	12.17					4.16
735.0	12.25					4.16
740.0	12.33					4.13
745.0	12.42					4.09
750.0	12.50					4.03
755.0	12.58					3.98
760.0	12.67					4.03
765.0	12.75					3.97
770.0	12.83					3.97
775.0	12.92					4.02
780.0	13.00					3.99
785.0	13.08					3.99
790.0	13.17					3.95
795.0	13.25					3.99
800.0	13.33					3.91
805.0	13.42					3.95
810.0	13.50					3.91
815.0	13.58					3.86
820.0	13.67					3.89
825.0	13.75					3.87
830.0	13.83					3.92
835.0	13.92					3.83
840.0	14.00					3.76
845.0	14.08					3.81
850.0	14.17					3.82
855.0	14.25					3.83
860.0	14.33					3.81
865.0	14.42					3.79
870.0	14.50					3.76
875.0	14.58					3.80
880.0	14.67					3.74
885.0	14.75					3.74
890.0	14.83					3.68
895.0	14.92					3.68
900.0	15.00					3.71

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP119.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-119		
Location:	Bridgeton Landfill		
Sounding Date:	15-Nov-2013		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	58
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	15.200		
Longest Trace - Depth (ft):	49.868		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	4.200	15.200
		Depth (ft)	13.779	49.868
0.0	0.00		9.87	15.35
5.0	0.08		14.35	14.91
10.0	0.17		14.52	15.09
15.0	0.25		13.38	15.03
20.0	0.33		12.67	15.05
25.0	0.42		11.86	15.05
30.0	0.50		11.29	15.00
35.0	0.58		10.82	14.97
40.0	0.67		10.32	15.03
45.0	0.75		10.02	14.89
50.0	0.83		9.69	14.82
55.0	0.92		9.48	14.89
60.0	1.00		9.07	14.86
65.0	1.08		8.79	14.73
70.0	1.17		8.48	14.71
75.0	1.25		8.22	14.71
80.0	1.33		8.14	14.67
85.0	1.42		7.89	14.60
90.0	1.50		7.81	14.49
95.0	1.58		7.55	14.46
100.0	1.67		7.27	14.43
105.0	1.75		7.34	14.46
110.0	1.83		7.13	14.43
115.0	1.92		7.01	14.23
120.0	2.00		6.91	14.29
125.0	2.08		6.71	14.19
130.0	2.17		6.70	14.11

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	4.200	15.200
		Depth (ft)	13.779	49.868
135.0	2.25		6.54	14.11
140.0	2.33		6.45	14.06
145.0	2.42		6.40	14.14
150.0	2.50		6.32	14.09
155.0	2.58		6.16	14.09
160.0	2.67		6.05	14.06
165.0	2.75		6.13	13.95
170.0	2.83		5.96	13.91
175.0	2.92		6.01	13.96
180.0	3.00		5.75	13.86
185.0	3.08		5.88	13.74
190.0	3.17		5.70	13.83
195.0	3.25		5.79	13.71
200.0	3.33		5.68	13.76
205.0	3.42		5.55	13.72
210.0	3.50		5.51	13.65
215.0	3.58		5.54	13.79
220.0	3.67		5.43	13.60
225.0	3.75		5.36	13.56
230.0	3.83		5.43	13.54
235.0	3.92		5.22	13.55
240.0	4.00		5.21	13.54
245.0	4.08		5.24	13.53
250.0	4.17		5.31	13.46
255.0	4.25		5.24	13.43
260.0	4.33		5.25	13.41
265.0	4.42		5.17	13.38
270.0	4.50		5.06	13.30
275.0	4.58		5.05	13.43
280.0	4.67		4.98	13.27
285.0	4.75		4.89	13.22
290.0	4.83		5.05	13.33
295.0	4.92		4.89	13.29
300.0	5.00		4.93	13.26

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-2.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-2		
Location:	Bridgeton Landfill		
Sounding Date:	30-Jan-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	48
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	13.450		
Longest Trace - Depth (ft):	44.127		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 7.900 / 25.918	2 / 61 / 13.450 / 44.127
0.0	0.00		28.37	15.21
5.0	0.08		18.92	12.30
10.0	0.17		22.97	14.35
15.0	0.25		25.02	14.87
20.0	0.33		26.53	14.83
25.0	0.42		26.94	14.68
30.0	0.50		27.50	14.57
35.0	0.58		27.39	14.32
40.0	0.67		26.90	13.85
45.0	0.75		26.58	13.69
50.0	0.83		26.93	13.28
55.0	0.92		26.56	12.93
60.0	1.00		26.37	12.45
65.0	1.08		26.32	12.17
70.0	1.17		25.22	11.96
75.0	1.25		25.33	11.66
80.0	1.33		25.05	11.42
85.0	1.42		24.23	11.04
90.0	1.50		24.38	10.72
95.0	1.58		23.84	10.59
100.0	1.67		23.40	10.25
105.0	1.75		23.89	9.93
110.0	1.83		22.78	10.07
115.0	1.92		23.07	9.59
120.0	2.00		22.32	9.52
125.0	2.08		22.81	9.63
130.0	2.17		22.11	9.30

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	7.900	13.450
		Depth (ft)	25.918	44.127
135.0	2.25		21.87	9.14
140.0	2.33		21.22	9.01
145.0	2.42		21.30	8.87
150.0	2.50		21.02	8.79
155.0	2.58		20.40	8.80
160.0	2.67		21.10	8.74
165.0	2.75		20.72	8.63
170.0	2.83		20.64	8.57
175.0	2.92		19.82	8.41
180.0	3.00		19.53	8.24
185.0	3.08		19.66	8.23
190.0	3.17		19.26	8.01
195.0	3.25		19.32	8.01
200.0	3.33		19.35	8.02
205.0	3.42		19.35	7.87
210.0	3.50		19.51	7.91
215.0	3.58		19.53	7.96
220.0	3.67		19.21	7.84
225.0	3.75		18.53	7.69
230.0	3.83		18.39	7.57
235.0	3.92		18.25	7.73
240.0	4.00		18.15	7.70
245.0	4.08		17.83	7.69
250.0	4.17		18.03	7.56
255.0	4.25		18.30	7.69
260.0	4.33		18.35	7.56
265.0	4.42		17.33	7.57
270.0	4.50		17.69	7.40
275.0	4.58		17.45	7.44
280.0	4.67		17.20	7.36
285.0	4.75		17.34	7.58
290.0	4.83		17.43	7.48
295.0	4.92		16.87	7.45
300.0	5.00		17.34	7.46

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-2R.PPD
Job Number:	13-53075
Sounding ID:	GCPT-1C-2R
Location:	Bridgeton Landfill
Sounding Date:	06-Feb-2014
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 25
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	101
Longest Trace - Depth (m):	13.150
Longest Trace - Depth (ft):	43.143
Longest Trace - Duration (s):	500.0
Longest Trace - Duration (min):	8.33
Longest Trace - Duration (hrs):	0.139
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 101 / 13.150 / 43.143
0.0	0.00		15.97
5.0	0.08		17.41
10.0	0.17		11.83
15.0	0.25		12.32
20.0	0.33		12.00
25.0	0.42		11.84
30.0	0.50		11.63
35.0	0.58		11.49
40.0	0.67		11.41
45.0	0.75		10.85
50.0	0.83		10.93
55.0	0.92		10.73
60.0	1.00		10.61
65.0	1.08		10.51
70.0	1.17		10.24
75.0	1.25		10.10
80.0	1.33		10.06
85.0	1.42		9.81
90.0	1.50		9.66
95.0	1.58		9.66
100.0	1.67		9.42
105.0	1.75		9.49
110.0	1.83		9.39
115.0	1.92		9.08
120.0	2.00		9.23
125.0	2.08		9.08
130.0	2.17		9.07

Time (s)	Time (min)	Trace No.	1
		Trace Points	101
		Depth (m)	13.150
		Depth (ft)	43.143
135.0	2.25		8.98
140.0	2.33		8.78
145.0	2.42		8.95
150.0	2.50		8.82
155.0	2.58		8.59
160.0	2.67		8.85
165.0	2.75		8.56
170.0	2.83		8.67
175.0	2.92		8.68
180.0	3.00		8.77
185.0	3.08		8.46
190.0	3.17		8.46
195.0	3.25		8.54
200.0	3.33		8.52
205.0	3.42		8.43
210.0	3.50		8.33
215.0	3.58		8.46
220.0	3.67		8.34
225.0	3.75		8.52
230.0	3.83		8.20
235.0	3.92		8.59
240.0	4.00		8.49
245.0	4.08		8.40
250.0	4.17		8.39
255.0	4.25		8.33
260.0	4.33		8.40
265.0	4.42		8.57
270.0	4.50		8.40
275.0	4.58		8.47
280.0	4.67		8.34
285.0	4.75		8.22
290.0	4.83		8.45
295.0	4.92		8.32
300.0	5.00		8.30
305.0	5.08		8.38
310.0	5.17		8.41
315.0	5.25		8.32
320.0	5.33		8.25
325.0	5.42		8.44
330.0	5.50		8.60
335.0	5.58		8.40
340.0	5.67		8.51
345.0	5.75		8.50
350.0	5.83		8.54
355.0	5.92		8.59
360.0	6.00		8.55
365.0	6.08		8.45
370.0	6.17		8.46
375.0	6.25		8.59
380.0	6.33		8.50
385.0	6.42		8.66
390.0	6.50		8.58
395.0	6.58		8.51

Time (s)	Time (min)	Trace No.	1
		Trace Points	101
		Depth (m)	13.150
		Depth (ft)	43.143
400.0	6.67		8.64
405.0	6.75		8.59
410.0	6.83		8.41
415.0	6.92		8.65
420.0	7.00		8.54
425.0	7.08		8.69
430.0	7.17		8.52
435.0	7.25		8.60
440.0	7.33		8.45
445.0	7.42		8.73
450.0	7.50		8.63
455.0	7.58		8.73
460.0	7.67		8.69
465.0	7.75		8.70
470.0	7.83		8.85
475.0	7.92		8.65
480.0	8.00		8.79
485.0	8.08		8.65
490.0	8.17		8.81
495.0	8.25		8.79
500.0	8.33		8.84

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-3.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-3		
Location:	Bridgeton Landfill		
Sounding Date:	30-Jan-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	41
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	7.850		
Longest Trace - Depth (ft):	25.754		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 7.850 / 25.754
0.0	0.00		41.12
5.0	0.08		34.88
10.0	0.17		33.40
15.0	0.25		33.85
20.0	0.33		33.72
25.0	0.42		34.03
30.0	0.50		33.03
35.0	0.58		33.73
40.0	0.67		33.63
45.0	0.75		33.37
50.0	0.83		33.81
55.0	0.92		33.43
60.0	1.00		33.59
65.0	1.08		33.09
70.0	1.17		33.60
75.0	1.25		33.65
80.0	1.33		33.24
85.0	1.42		33.48
90.0	1.50		33.28
95.0	1.58		32.91
100.0	1.67		32.95
105.0	1.75		32.94
110.0	1.83		32.77
115.0	1.92		32.91
120.0	2.00		32.70
125.0	2.08		32.50
130.0	2.17		32.35

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	7.850
		Depth (ft)	25.754
135.0	2.25		32.82
140.0	2.33		32.67
145.0	2.42		32.70
150.0	2.50		32.01
155.0	2.58		32.72
160.0	2.67		31.76
165.0	2.75		32.37
170.0	2.83		31.79
175.0	2.92		31.41
180.0	3.00		31.61
185.0	3.08		31.73
190.0	3.17		31.79
195.0	3.25		31.14
200.0	3.33		30.91
205.0	3.42		30.29
210.0	3.50		30.70
215.0	3.58		30.49
220.0	3.67		30.50
225.0	3.75		29.78
230.0	3.83		30.56
235.0	3.92		30.30
240.0	4.00		30.65
245.0	4.08		29.49
250.0	4.17		30.30
255.0	4.25		30.17
260.0	4.33		29.88
265.0	4.42		29.92
270.0	4.50		29.64
275.0	4.58		29.06
280.0	4.67		29.20
285.0	4.75		29.12
290.0	4.83		29.47
295.0	4.92		29.61
300.0	5.00		28.96

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-4.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-4		
Location:	Bridgeton Landfill		
Sounding Date:	30-Jan-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	40
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	104		
Longest Trace - Depth (m):	17.600		
Longest Trace - Depth (ft):	57.742		
Longest Trace - Duration (s):	515.0		
Longest Trace - Duration (min):	8.58		
Longest Trace - Duration (hrs):	0.143		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 101 / 7.100 / 23.294	2 / 104 / 17.600 / 57.742
0.0	0.00		27.69	15.89
5.0	0.08		52.89	14.40
10.0	0.17		75.54	13.75
15.0	0.25		85.65	13.54
20.0	0.33		89.01	13.03
25.0	0.42		89.11	12.57
30.0	0.50		87.44	8.76
35.0	0.58		84.67	9.65
40.0	0.67		82.17	9.54
45.0	0.75		79.90	9.63
50.0	0.83		77.80	9.64
55.0	0.92		75.77	9.80
60.0	1.00		73.79	9.52
65.0	1.08		71.58	9.31
70.0	1.17		69.88	9.37
75.0	1.25		68.15	9.48
80.0	1.33		66.56	9.27
85.0	1.42		64.98	9.21
90.0	1.50		62.57	9.29
95.0	1.58		61.43	9.17
100.0	1.67		60.09	9.22
105.0	1.75		58.01	9.12
110.0	1.83		57.15	9.25
115.0	1.92		56.46	9.10
120.0	2.00		55.33	9.02
125.0	2.08		53.30	9.03
130.0	2.17		52.49	8.96

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	101	104
		Depth (m)	7.100	17.600
		Depth (ft)	23.294	57.742
135.0	2.25		51.39	9.06
140.0	2.33		50.48	8.85
145.0	2.42		49.92	9.04
150.0	2.50		49.17	9.01
155.0	2.58		47.75	9.18
160.0	2.67		47.26	8.99
165.0	2.75		46.28	8.96
170.0	2.83		45.35	8.94
175.0	2.92		44.24	9.19
180.0	3.00		43.87	8.99
185.0	3.08		43.28	8.98
190.0	3.17		42.52	9.09
195.0	3.25		41.83	9.21
200.0	3.33		41.31	8.98
205.0	3.42		40.33	8.94
210.0	3.50		40.07	9.16
215.0	3.58		38.90	9.17
220.0	3.67		38.57	9.19
225.0	3.75		38.02	9.17
230.0	3.83		37.31	9.20
235.0	3.92		36.97	9.17
240.0	4.00		36.49	9.15
245.0	4.08		35.60	9.18
250.0	4.17		35.51	9.00
255.0	4.25		34.97	9.17
260.0	4.33		34.50	9.12
265.0	4.42		34.49	9.12
270.0	4.50		33.12	9.16
275.0	4.58		32.65	9.32
280.0	4.67		32.36	9.11
285.0	4.75		32.19	9.21
290.0	4.83		31.48	9.19
295.0	4.92		31.31	9.18
300.0	5.00		30.79	9.33
305.0	5.08		30.54	9.40
310.0	5.17		30.02	9.45
315.0	5.25		30.06	9.27
320.0	5.33		29.79	9.22
325.0	5.42		29.39	9.25
330.0	5.50		28.55	9.41
335.0	5.58		28.60	9.37
340.0	5.67		28.01	9.35
345.0	5.75		27.95	9.46
350.0	5.83		27.23	9.41
355.0	5.92		27.07	9.48
360.0	6.00		26.87	9.47
365.0	6.08		26.50	9.55
370.0	6.17		26.31	9.31
375.0	6.25		26.12	9.58
380.0	6.33		25.72	9.49
385.0	6.42		25.73	9.54
390.0	6.50		25.40	9.67
395.0	6.58		24.73	9.34

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	101	104
		Depth (m)	7.100	17.600
		Depth (ft)	23.294	57.742
400.0	6.67		24.75	9.51
405.0	6.75		24.55	9.64
410.0	6.83		24.58	9.62
415.0	6.92		23.83	9.56
420.0	7.00		23.53	9.51
425.0	7.08		23.82	9.71
430.0	7.17		23.51	9.66
435.0	7.25		23.44	9.71
440.0	7.33		22.92	9.53
445.0	7.42		22.90	9.62
450.0	7.50		22.53	9.68
455.0	7.58		21.99	9.65
460.0	7.67		22.68	9.62
465.0	7.75		22.22	9.69
470.0	7.83		21.56	9.57
475.0	7.92		21.60	9.84
480.0	8.00		21.56	9.76
485.0	8.08		21.07	9.82
490.0	8.17		21.18	9.76
495.0	8.25		21.09	9.55
500.0	8.33		20.41	9.75
505.0	8.42			9.63
510.0	8.50			9.73
515.0	8.58			9.84

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-4R.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-4R		
Location:	Bridgeton Landfill		
Sounding Date:	06-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	3	Of	48
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	87		
Longest Trace - Depth (m):	15.400		
Longest Trace - Depth (ft):	50.524		
Longest Trace - Duration (s):	430.0		
Longest Trace - Duration (min):	7.17		
Longest Trace - Duration (hrs):	0.119		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 32 14.300 46.915	2 87 15.400 50.524	3 61 16.550 54.297
0.0	0.00		8.95	49.15	11.36
5.0	0.08		6.38	59.87	7.24
10.0	0.17		6.02	61.29	2.60
15.0	0.25		5.48	60.91	3.64
20.0	0.33		5.24	66.82	3.57
25.0	0.42		4.97	70.71	3.40
30.0	0.50		4.82	72.25	3.63
35.0	0.58		4.70	72.38	3.68
40.0	0.67		4.40	69.84	3.28
45.0	0.75		4.26	68.84	3.12
50.0	0.83		4.16	68.98	3.25
55.0	0.92		4.12	69.12	2.87
60.0	1.00		3.98	68.71	2.76
65.0	1.08		4.00	67.67	2.86
70.0	1.17		3.93	67.25	2.75
75.0	1.25		3.75	66.03	2.62
80.0	1.33		3.68	66.36	2.43
85.0	1.42		3.65	65.72	2.51
90.0	1.50		3.53	65.40	2.24
95.0	1.58		3.62	64.97	2.34
100.0	1.67		3.65	64.39	2.42
105.0	1.75		3.74	63.92	2.08
110.0	1.83		3.65	63.64	1.97
115.0	1.92		3.38	63.15	2.06
120.0	2.00		3.40	62.79	1.80
125.0	2.08		3.39	62.37	2.00
130.0	2.17		3.45	61.83	1.79

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	32	87	61
		Depth (m)	14.300	15.400	16.550
		Depth (ft)	46.915	50.524	54.297
135.0	2.25		3.48	61.29	1.71
140.0	2.33		3.31	60.75	1.91
145.0	2.42		3.36	60.03	1.73
150.0	2.50		3.42	59.54	1.72
155.0	2.58		3.36	59.13	1.80
160.0	2.67			58.69	1.63
165.0	2.75			58.09	1.65
170.0	2.83			57.70	1.65
175.0	2.92			56.97	1.58
180.0	3.00			56.68	1.56
185.0	3.08			56.03	1.55
190.0	3.17			55.45	1.53
195.0	3.25			54.78	1.45
200.0	3.33			53.72	1.35
205.0	3.42			51.18	1.49
210.0	3.50			48.19	1.43
215.0	3.58			48.30	1.48
220.0	3.67			48.45	1.31
225.0	3.75			48.53	1.37
230.0	3.83			48.85	1.40
235.0	3.92			48.98	1.47
240.0	4.00			48.74	1.28
245.0	4.08			48.52	1.37
250.0	4.17			48.39	1.32
255.0	4.25			48.05	1.11
260.0	4.33			47.53	1.28
265.0	4.42			47.28	1.12
270.0	4.50			46.91	1.10
275.0	4.58			46.58	1.38
280.0	4.67			46.25	1.17
285.0	4.75			45.85	1.28
290.0	4.83			45.44	1.13
295.0	4.92			45.15	1.13
300.0	5.00			44.90	0.99
305.0	5.08			44.49	
310.0	5.17			44.12	
315.0	5.25			43.72	
320.0	5.33			43.55	
325.0	5.42			43.27	
330.0	5.50			42.83	
335.0	5.58			42.59	
340.0	5.67			42.34	
345.0	5.75			41.85	
350.0	5.83			41.68	
355.0	5.92			41.63	
360.0	6.00			41.12	
365.0	6.08			40.83	
370.0	6.17			40.64	
375.0	6.25			40.35	
380.0	6.33			40.14	
385.0	6.42			39.76	
390.0	6.50			39.56	
395.0	6.58			39.21	

Time (s)	Time (min)	Trace No.	1	2	3
		Trace Points	32	87	61
		Depth (m)	14.300	15.400	16.550
		Depth (ft)	46.915	50.524	54.297
400.0	6.67			39.10	
405.0	6.75			38.88	
410.0	6.83			38.40	
415.0	6.92			38.28	
420.0	7.00			38.15	
425.0	7.08			37.70	
430.0	7.17			37.56	

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-5A.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-5A		
Location:	Bridgeton Landfill		
Sounding Date:	29-Jan-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	55
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	14.750		
Longest Trace - Depth (ft):	48.392		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.800	14.750
		Depth (ft)	22.309	48.392
0.0	0.00		-5.42	8.10
5.0	0.08		1.62	17.48
10.0	0.17		1.23	15.64
15.0	0.25		1.37	13.65
20.0	0.33		1.52	12.96
25.0	0.42		2.00	12.00
30.0	0.50		1.65	11.93
35.0	0.58		1.33	11.39
40.0	0.67		1.98	11.39
45.0	0.75		1.76	10.50
50.0	0.83		1.57	10.30
55.0	0.92		1.68	10.59
60.0	1.00		1.49	10.10
65.0	1.08		1.07	9.87
70.0	1.17		1.39	9.95
75.0	1.25		1.47	9.73
80.0	1.33		1.64	9.33
85.0	1.42		1.06	9.56
90.0	1.50		1.87	9.60
95.0	1.58		1.50	9.05
100.0	1.67		1.01	9.34
105.0	1.75		1.57	9.21
110.0	1.83		1.21	9.03
115.0	1.92		1.56	8.56
120.0	2.00		1.46	8.28
125.0	2.08		1.56	8.71
130.0	2.17		1.70	8.46

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.800	14.750
		Depth (ft)	22.309	48.392
135.0	2.25		1.25	8.53
140.0	2.33		1.54	8.42
145.0	2.42		1.20	8.04
150.0	2.50		1.71	7.76
155.0	2.58		0.97	8.05
160.0	2.67		1.50	8.13
165.0	2.75		1.60	8.11
170.0	2.83		1.82	8.17
175.0	2.92		1.78	8.03
180.0	3.00		0.63	7.87
185.0	3.08		1.09	8.02
190.0	3.17		1.47	7.78
195.0	3.25		1.61	7.84
200.0	3.33		1.52	8.18
205.0	3.42		0.84	7.46
210.0	3.50		1.23	7.99
215.0	3.58		1.74	7.70
220.0	3.67		1.31	7.26
225.0	3.75		1.58	7.67
230.0	3.83		1.53	7.10
235.0	3.92		1.33	7.37
240.0	4.00		1.26	7.96
245.0	4.08		1.75	7.65
250.0	4.17		0.72	7.35
255.0	4.25		1.56	7.17
260.0	4.33		1.50	7.41
265.0	4.42		1.45	7.57
270.0	4.50		1.23	7.53
275.0	4.58		1.28	6.65
280.0	4.67		1.62	7.23
285.0	4.75		1.25	7.27
290.0	4.83		1.63	7.55
295.0	4.92		1.12	6.96
300.0	5.00		1.37	6.99

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-6.PPD
Job Number:	13-53075
Sounding ID:	GCPT-1C-6
Location:	Bridgeton Landfill
Sounding Date:	07-Feb-2014
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 16
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	91
Longest Trace - Depth (m):	8.250
Longest Trace - Depth (ft):	27.067
Longest Trace - Duration (s):	450.0
Longest Trace - Duration (min):	7.50
Longest Trace - Duration (hrs):	0.125
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 91 / 8.250 / 27.067
0.0	0.00		0.44
5.0	0.08		0.33
10.0	0.17		0.36
15.0	0.25		0.11
20.0	0.33		-0.02
25.0	0.42		-0.09
30.0	0.50		-0.09
35.0	0.58		-0.18
40.0	0.67		-0.32
45.0	0.75		-0.40
50.0	0.83		-0.31
55.0	0.92		-0.51
60.0	1.00		0.05
65.0	1.08		0.08
70.0	1.17		0.19
75.0	1.25		0.09
80.0	1.33		0.30
85.0	1.42		0.18
90.0	1.50		0.09
95.0	1.58		0.21
100.0	1.67		0.12
105.0	1.75		0.04
110.0	1.83		0.18
115.0	1.92		0.14
120.0	2.00		0.30
125.0	2.08		0.17
130.0	2.17		0.22

Time (s)	Time (min)	Trace No.	1
		Trace Points	91
		Depth (m)	8.250
		Depth (ft)	27.067
135.0	2.25		0.22
140.0	2.33		0.25
145.0	2.42		0.19
150.0	2.50		0.19
155.0	2.58		0.20
160.0	2.67		0.30
165.0	2.75		0.24
170.0	2.83		0.22
175.0	2.92		0.12
180.0	3.00		0.31
185.0	3.08		0.17
190.0	3.17		0.31
195.0	3.25		0.23
200.0	3.33		0.21
205.0	3.42		0.29
210.0	3.50		0.32
215.0	3.58		0.23
220.0	3.67		0.27
225.0	3.75		0.34
230.0	3.83		0.18
235.0	3.92		0.28
240.0	4.00		0.25
245.0	4.08		0.21
250.0	4.17		0.32
255.0	4.25		0.18
260.0	4.33		0.13
265.0	4.42		0.23
270.0	4.50		0.32
275.0	4.58		0.36
280.0	4.67		0.29
285.0	4.75		0.33
290.0	4.83		0.35
295.0	4.92		0.32
300.0	5.00		0.27
305.0	5.08		0.36
310.0	5.17		0.26
315.0	5.25		0.34
320.0	5.33		0.41
325.0	5.42		0.33
330.0	5.50		0.38
335.0	5.58		0.36
340.0	5.67		0.39
345.0	5.75		0.39
350.0	5.83		0.26
355.0	5.92		0.35
360.0	6.00		0.33
365.0	6.08		0.31
370.0	6.17		0.34
375.0	6.25		0.33
380.0	6.33		0.32
385.0	6.42		0.23
390.0	6.50		0.38
395.0	6.58		0.38

Time (s)	Time (min)	Trace No.	1
		Trace Points	91
		Depth (m)	8.250
		Depth (ft)	27.067
400.0	6.67		0.35
405.0	6.75		0.41
410.0	6.83		0.39
415.0	6.92		0.29
420.0	7.00		0.36
425.0	7.08		0.41
430.0	7.17		0.41
435.0	7.25		0.35
440.0	7.33		0.38
445.0	7.42		0.39
450.0	7.50		0.40

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-6T1.PPD
Job Number:	13-53075
Sounding ID:	GCPT-1C-6T1
Location:	Bridgeton Landfill/ Bridgeton,
Sounding Date:	18-Feb-2014
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 28
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	279
Longest Trace - Depth (m):	8.100
Longest Trace - Depth (ft):	26.574
Longest Trace - Duration (s):	1390.0
Longest Trace - Duration (min):	23.17
Longest Trace - Duration (hrs):	0.386
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 279 / 8.100 / 26.574
0.0	0.00		3.79
5.0	0.08		2.97
10.0	0.17		2.74
15.0	0.25		2.63
20.0	0.33		2.55
25.0	0.42		2.26
30.0	0.50		2.25
35.0	0.58		1.96
40.0	0.67		1.97
45.0	0.75		1.77
50.0	0.83		1.61
55.0	0.92		1.52
60.0	1.00		1.43
65.0	1.08		1.34
70.0	1.17		1.23
75.0	1.25		1.09
80.0	1.33		1.04
85.0	1.42		1.04
90.0	1.50		1.01
95.0	1.58		0.81
100.0	1.67		0.66
105.0	1.75		0.88
110.0	1.83		0.77
115.0	1.92		0.74
120.0	2.00		0.51
125.0	2.08		0.70
130.0	2.17		0.56

Time (s)	Time (min)	Trace No.	1
		Trace Points	279
		Depth (m)	8.100
		Depth (ft)	26.574
135.0	2.25		0.37
140.0	2.33		0.47
145.0	2.42		0.48
150.0	2.50		0.37
155.0	2.58		0.37
160.0	2.67		0.23
165.0	2.75		0.34
170.0	2.83		0.19
175.0	2.92		0.19
180.0	3.00		0.17
185.0	3.08		0.35
190.0	3.17		0.23
195.0	3.25		0.13
200.0	3.33		0.22
205.0	3.42		0.18
210.0	3.50		0.20
215.0	3.58		0.09
220.0	3.67		0.15
225.0	3.75		0.22
230.0	3.83		0.12
235.0	3.92		0.14
240.0	4.00		0.10
245.0	4.08		0.09
250.0	4.17		0.08
255.0	4.25		0.08
260.0	4.33		0.09
265.0	4.42		0.05
270.0	4.50		0.13
275.0	4.58		0.15
280.0	4.67		0.14
285.0	4.75		0.11
290.0	4.83		0.21
295.0	4.92		0.16
300.0	5.00		0.01
305.0	5.08		0.18
310.0	5.17		0.13
315.0	5.25		0.07
320.0	5.33		0.11
325.0	5.42		0.18
330.0	5.50		0.15
335.0	5.58		0.11
340.0	5.67		0.25
345.0	5.75		0.20
350.0	5.83		0.10
355.0	5.92		0.13
360.0	6.00		0.19
365.0	6.08		0.10
370.0	6.17		0.13
375.0	6.25		0.24
380.0	6.33		0.30
385.0	6.42		0.14
390.0	6.50		0.27
395.0	6.58		0.19

Time (s)	Time (min)	Trace No.	1
		Trace Points	279
		Depth (m)	8.100
		Depth (ft)	26.574
400.0	6.67		0.46
405.0	6.75		0.32
410.0	6.83		0.23
415.0	6.92		0.21
420.0	7.00		0.40
425.0	7.08		0.26
430.0	7.17		0.39
435.0	7.25		0.40
440.0	7.33		0.30
445.0	7.42		0.34
450.0	7.50		0.41
455.0	7.58		0.50
460.0	7.67		0.36
465.0	7.75		0.27
470.0	7.83		0.39
475.0	7.92		0.38
480.0	8.00		0.29
485.0	8.08		0.29
490.0	8.17		0.26
495.0	8.25		0.26
500.0	8.33		0.41
505.0	8.42		0.40
510.0	8.50		0.39
515.0	8.58		0.32
520.0	8.67		0.26
525.0	8.75		0.31
530.0	8.83		0.26
535.0	8.92		0.45
540.0	9.00		0.44
545.0	9.08		0.37
550.0	9.17		0.30
555.0	9.25		0.27
560.0	9.33		0.30
565.0	9.42		0.36
570.0	9.50		0.34
575.0	9.58		0.40
580.0	9.67		0.39
585.0	9.75		0.31
590.0	9.83		0.33
595.0	9.92		0.41
600.0	10.00		0.35
605.0	10.08		0.36
610.0	10.17		0.40
615.0	10.25		0.40
620.0	10.33		0.39
625.0	10.42		0.43
630.0	10.50		0.37
635.0	10.58		0.42
640.0	10.67		0.31
645.0	10.75		0.33
650.0	10.83		0.38
655.0	10.92		0.34
660.0	11.00		0.42

Time (s)	Time (min)	Trace No.	1
		Trace Points	279
		Depth (m)	8.100
		Depth (ft)	26.574
665.0	11.08		0.26
670.0	11.17		0.45
675.0	11.25		0.44
680.0	11.33		0.50
685.0	11.42		0.53
690.0	11.50		0.46
695.0	11.58		0.35
700.0	11.67		0.41
705.0	11.75		0.37
710.0	11.83		0.45
715.0	11.92		0.33
720.0	12.00		0.34
725.0	12.08		0.43
730.0	12.17		0.53
735.0	12.25		0.39
740.0	12.33		0.27
745.0	12.42		0.39
750.0	12.50		0.33
755.0	12.58		0.42
760.0	12.67		0.44
765.0	12.75		0.36
770.0	12.83		0.33
775.0	12.92		0.36
780.0	13.00		0.38
785.0	13.08		0.46
790.0	13.17		0.42
795.0	13.25		0.40
800.0	13.33		0.45
805.0	13.42		0.37
810.0	13.50		0.36
815.0	13.58		0.38
820.0	13.67		0.40
825.0	13.75		0.26
830.0	13.83		0.38
835.0	13.92		0.33
840.0	14.00		0.42
845.0	14.08		0.30
850.0	14.17		0.29
855.0	14.25		0.39
860.0	14.33		0.33
865.0	14.42		0.33
870.0	14.50		0.42
875.0	14.58		0.33
880.0	14.67		0.33
885.0	14.75		0.36
890.0	14.83		0.49
895.0	14.92		0.29
900.0	15.00		0.45
905.0	15.08		0.45
910.0	15.17		0.35
915.0	15.25		0.48
920.0	15.33		0.38
925.0	15.42		0.43

Time (s)	Time (min)	Trace No.	1
		Trace Points	279
		Depth (m)	8.100
		Depth (ft)	26.574
930.0	15.50		0.49
935.0	15.58		0.36
940.0	15.67		0.30
945.0	15.75		0.42
950.0	15.83		0.28
955.0	15.92		0.23
960.0	16.00		0.30
965.0	16.08		0.37
970.0	16.17		0.42
975.0	16.25		0.45
980.0	16.33		0.35
985.0	16.42		0.44
990.0	16.50		0.32
995.0	16.58		0.41
1000.0	16.67		0.31
1005.0	16.75		0.43
1010.0	16.83		0.31
1015.0	16.92		0.26
1020.0	17.00		0.36
1025.0	17.08		0.35
1030.0	17.17		0.41
1035.0	17.25		0.35
1040.0	17.33		0.39
1045.0	17.42		0.26
1050.0	17.50		0.31
1055.0	17.58		0.35
1060.0	17.67		0.39
1065.0	17.75		0.42
1070.0	17.83		0.26
1075.0	17.92		0.44
1080.0	18.00		0.38
1085.0	18.08		0.47
1090.0	18.17		0.40
1095.0	18.25		0.37
1100.0	18.33		0.33
1105.0	18.42		0.36
1110.0	18.50		0.50
1115.0	18.58		0.43
1120.0	18.67		0.32
1125.0	18.75		0.32
1130.0	18.83		0.29
1135.0	18.92		0.40
1140.0	19.00		0.34
1145.0	19.08		0.43
1150.0	19.17		0.38
1155.0	19.25		0.50
1160.0	19.33		0.32
1165.0	19.42		0.41
1170.0	19.50		0.37
1175.0	19.58		0.36
1180.0	19.67		0.38
1185.0	19.75		0.41
1190.0	19.83		0.42

Time (s)	Time (min)	Trace No.	1
		Trace Points	279
		Depth (m)	8.100
		Depth (ft)	26.574
1195.0	19.92		0.44
1200.0	20.00		0.38
1205.0	20.08		0.45
1210.0	20.17		0.38
1215.0	20.25		0.50
1220.0	20.33		0.35
1225.0	20.42		0.34
1230.0	20.50		0.42
1235.0	20.58		0.39
1240.0	20.67		0.49
1245.0	20.75		0.34
1250.0	20.83		0.55
1255.0	20.92		0.34
1260.0	21.00		0.45
1265.0	21.08		0.40
1270.0	21.17		0.33
1275.0	21.25		0.31
1280.0	21.33		0.33
1285.0	21.42		0.46
1290.0	21.50		0.33
1295.0	21.58		0.34
1300.0	21.67		0.42
1305.0	21.75		0.38
1310.0	21.83		0.34
1315.0	21.92		0.49
1320.0	22.00		0.41
1325.0	22.08		0.29
1330.0	22.17		0.38
1335.0	22.25		0.38
1340.0	22.33		0.35
1345.0	22.42		0.50
1350.0	22.50		0.44
1355.0	22.58		0.28
1360.0	22.67		0.48
1365.0	22.75		0.30
1370.0	22.83		0.40
1375.0	22.92		0.28
1380.0	23.00		0.37
1385.0	23.08		0.31
1390.0	23.17		0.45

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-6T.PPD
Job Number:	13-53075
Sounding ID:	GCPT-1C-6T
Location:	Bridgeton Landfill/ Bridgeton
Sounding Date:	18-Feb-2014
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 23
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	286
Longest Trace - Depth (m):	8.000
Longest Trace - Depth (ft):	26.246
Longest Trace - Duration (s):	1425.0
Longest Trace - Duration (min):	23.75
Longest Trace - Duration (hrs):	0.396
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 286 / 8.000 / 26.246
0.0	0.00		1.73
5.0	0.08		1.74
10.0	0.17		1.66
15.0	0.25		1.68
20.0	0.33		1.56
25.0	0.42		1.61
30.0	0.50		1.36
35.0	0.58		1.41
40.0	0.67		1.37
45.0	0.75		1.31
50.0	0.83		1.35
55.0	0.92		1.18
60.0	1.00		1.13
65.0	1.08		1.19
70.0	1.17		1.00
75.0	1.25		1.09
80.0	1.33		1.08
85.0	1.42		1.07
90.0	1.50		1.06
95.0	1.58		1.05
100.0	1.67		1.17
105.0	1.75		1.08
110.0	1.83		1.12
115.0	1.92		0.99
120.0	2.00		1.48
125.0	2.08		1.23
130.0	2.17		1.09

Time (s)	Time (min)	Trace No.	1
		Trace Points	286
		Depth (m)	8.000
		Depth (ft)	26.246
135.0	2.25		1.45
140.0	2.33		1.29
145.0	2.42		1.28
150.0	2.50		1.37
155.0	2.58		1.37
160.0	2.67		1.43
165.0	2.75		1.34
170.0	2.83		1.31
175.0	2.92		1.28
180.0	3.00		1.38
185.0	3.08		1.42
190.0	3.17		1.37
195.0	3.25		1.28
200.0	3.33		1.33
205.0	3.42		1.49
210.0	3.50		1.51
215.0	3.58		1.50
220.0	3.67		1.34
225.0	3.75		1.42
230.0	3.83		1.44
235.0	3.92		1.45
240.0	4.00		1.55
245.0	4.08		1.30
250.0	4.17		1.53
255.0	4.25		1.52
260.0	4.33		1.46
265.0	4.42		1.58
270.0	4.50		1.58
275.0	4.58		1.52
280.0	4.67		1.57
285.0	4.75		1.59
290.0	4.83		1.45
295.0	4.92		1.55
300.0	5.00		1.40
305.0	5.08		1.43
310.0	5.17		1.59
315.0	5.25		1.52
320.0	5.33		1.45
325.0	5.42		1.37
330.0	5.50		1.42
335.0	5.58		1.44
340.0	5.67		1.42
345.0	5.75		1.46
350.0	5.83		1.40
355.0	5.92		1.52
360.0	6.00		1.45
365.0	6.08		1.41
370.0	6.17		1.36
375.0	6.25		1.26
380.0	6.33		1.51
385.0	6.42		1.47
390.0	6.50		1.59
395.0	6.58		1.54

Time (s)	Time (min)	Trace No.	1
		Trace Points	286
		Depth (m)	8.000
		Depth (ft)	26.246
400.0	6.67		1.44
405.0	6.75		1.34
410.0	6.83		1.34
415.0	6.92		1.36
420.0	7.00		1.44
425.0	7.08		1.28
430.0	7.17		1.39
435.0	7.25		1.51
440.0	7.33		1.41
445.0	7.42		1.45
450.0	7.50		1.65
455.0	7.58		1.51
460.0	7.67		1.55
465.0	7.75		1.55
470.0	7.83		1.44
475.0	7.92		1.50
480.0	8.00		1.63
485.0	8.08		1.40
490.0	8.17		1.50
495.0	8.25		1.36
500.0	8.33		1.28
505.0	8.42		1.37
510.0	8.50		1.42
515.0	8.58		1.40
520.0	8.67		1.42
525.0	8.75		1.54
530.0	8.83		1.43
535.0	8.92		1.38
540.0	9.00		1.46
545.0	9.08		1.43
550.0	9.17		1.34
555.0	9.25		1.34
560.0	9.33		1.29
565.0	9.42		1.42
570.0	9.50		1.40
575.0	9.58		1.44
580.0	9.67		1.36
585.0	9.75		1.34
590.0	9.83		1.37
595.0	9.92		1.30
600.0	10.00		1.42
605.0	10.08		1.30
610.0	10.17		1.33
615.0	10.25		1.38
620.0	10.33		1.34
625.0	10.42		1.32
630.0	10.50		1.36
635.0	10.58		1.45
640.0	10.67		1.32
645.0	10.75		1.40
650.0	10.83		1.20
655.0	10.92		1.45
660.0	11.00		1.30

Time (s)	Time (min)	Trace No.	1
		Trace Points	286
		Depth (m)	8.000
		Depth (ft)	26.246
665.0	11.08		1.41
670.0	11.17		1.58
675.0	11.25		1.37
680.0	11.33		1.30
685.0	11.42		1.41
690.0	11.50		1.49
695.0	11.58		1.28
700.0	11.67		1.43
705.0	11.75		1.36
710.0	11.83		1.32
715.0	11.92		1.38
720.0	12.00		1.32
725.0	12.08		1.50
730.0	12.17		1.38
735.0	12.25		1.31
740.0	12.33		1.49
745.0	12.42		1.48
750.0	12.50		1.48
755.0	12.58		1.26
760.0	12.67		1.39
765.0	12.75		1.39
770.0	12.83		1.26
775.0	12.92		1.28
780.0	13.00		1.34
785.0	13.08		1.51
790.0	13.17		1.58
795.0	13.25		1.49
800.0	13.33		1.32
805.0	13.42		1.42
810.0	13.50		1.38
815.0	13.58		1.33
820.0	13.67		1.50
825.0	13.75		1.43
830.0	13.83		1.39
835.0	13.92		1.42
840.0	14.00		1.43
845.0	14.08		1.55
850.0	14.17		1.59
855.0	14.25		1.33
860.0	14.33		1.60
865.0	14.42		1.41
870.0	14.50		1.26
875.0	14.58		1.44
880.0	14.67		1.31
885.0	14.75		1.37
890.0	14.83		1.38
895.0	14.92		1.33
900.0	15.00		1.41
905.0	15.08		1.50
910.0	15.17		1.28
915.0	15.25		1.41
920.0	15.33		1.38
925.0	15.42		1.38

Time (s)	Time (min)	Trace No.	1
		Trace Points	286
		Depth (m)	8.000
		Depth (ft)	26.246
930.0	15.50		1.57
935.0	15.58		1.60
940.0	15.67		1.39
945.0	15.75		1.60
950.0	15.83		1.50
955.0	15.92		1.41
960.0	16.00		1.39
965.0	16.08		1.42
970.0	16.17		1.48
975.0	16.25		1.31
980.0	16.33		1.49
985.0	16.42		1.45
990.0	16.50		1.43
995.0	16.58		1.35
1000.0	16.67		1.53
1005.0	16.75		1.61
1010.0	16.83		1.42
1015.0	16.92		1.52
1020.0	17.00		1.60
1025.0	17.08		1.48
1030.0	17.17		1.43
1035.0	17.25		1.46
1040.0	17.33		1.45
1045.0	17.42		1.42
1050.0	17.50		1.50
1055.0	17.58		1.47
1060.0	17.67		1.40
1065.0	17.75		1.35
1070.0	17.83		1.58
1075.0	17.92		1.40
1080.0	18.00		1.57
1085.0	18.08		1.50
1090.0	18.17		1.45
1095.0	18.25		1.36
1100.0	18.33		1.59
1105.0	18.42		1.54
1110.0	18.50		1.33
1115.0	18.58		1.47
1120.0	18.67		1.41
1125.0	18.75		1.38
1130.0	18.83		1.62
1135.0	18.92		1.60
1140.0	19.00		1.47
1145.0	19.08		1.56
1150.0	19.17		1.42
1155.0	19.25		1.45
1160.0	19.33		1.52
1165.0	19.42		1.46
1170.0	19.50		1.42
1175.0	19.58		1.60
1180.0	19.67		1.39
1185.0	19.75		1.60
1190.0	19.83		1.51

Time (s)	Time (min)	Trace No.	1
		Trace Points	286
		Depth (m)	8.000
		Depth (ft)	26.246
1195.0	19.92		1.41
1200.0	20.00		1.41
1205.0	20.08		1.50
1210.0	20.17		1.48
1215.0	20.25		1.58
1220.0	20.33		1.50
1225.0	20.42		1.44
1230.0	20.50		1.38
1235.0	20.58		1.46
1240.0	20.67		1.58
1245.0	20.75		1.51
1250.0	20.83		1.52
1255.0	20.92		1.46
1260.0	21.00		1.45
1265.0	21.08		1.46
1270.0	21.17		1.60
1275.0	21.25		1.56
1280.0	21.33		1.65
1285.0	21.42		1.43
1290.0	21.50		1.59
1295.0	21.58		1.50
1300.0	21.67		1.41
1305.0	21.75		1.60
1310.0	21.83		1.33
1315.0	21.92		1.42
1320.0	22.00		1.43
1325.0	22.08		1.54
1330.0	22.17		1.47
1335.0	22.25		1.53
1340.0	22.33		1.50
1345.0	22.42		1.41
1350.0	22.50		1.52
1355.0	22.58		1.56
1360.0	22.67		1.59
1365.0	22.75		1.47
1370.0	22.83		1.57
1375.0	22.92		1.49
1380.0	23.00		1.51
1385.0	23.08		1.48
1390.0	23.17		1.51
1395.0	23.25		1.55
1400.0	23.33		1.43
1405.0	23.42		1.59
1410.0	23.50		1.56
1415.0	23.58		1.38
1420.0	23.67		1.54
1425.0	23.75		1.40

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-7.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-7		
Location:	Bridgeton Landfill/ Bridgetc		
Sounding Date:	18-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	41
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	11.000		
Longest Trace - Depth (ft):	36.089		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.250	11.000
		Depth (ft)	20.505	36.089
0.0	0.00		279.21	27.33
5.0	0.08		11.20	26.03
10.0	0.17		8.54	24.48
15.0	0.25		7.85	17.23
20.0	0.33		7.06	17.41
25.0	0.42		6.61	17.31
30.0	0.50		6.27	16.86
35.0	0.58		5.68	16.15
40.0	0.67		5.40	15.42
45.0	0.75		5.19	14.88
50.0	0.83		5.06	14.14
55.0	0.92		4.75	13.76
60.0	1.00		4.48	13.10
65.0	1.08		4.42	12.16
70.0	1.17		4.42	11.98
75.0	1.25		3.99	11.50
80.0	1.33		3.97	10.83
85.0	1.42		3.44	10.38
90.0	1.50		3.46	10.07
95.0	1.58		3.23	9.60
100.0	1.67		3.19	8.82
105.0	1.75		2.86	8.74
110.0	1.83		2.89	8.33
115.0	1.92		2.79	8.30
120.0	2.00		2.43	7.85
125.0	2.08		2.66	7.53
130.0	2.17		2.39	7.18

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.250	11.000
		Depth (ft)	20.505	36.089
135.0	2.25		2.06	7.01
140.0	2.33		2.09	7.05
145.0	2.42		1.96	6.88
150.0	2.50		2.05	6.66
155.0	2.58		1.91	6.31
160.0	2.67		1.82	6.04
165.0	2.75		1.94	6.15
170.0	2.83		1.96	6.05
175.0	2.92		1.79	5.60
180.0	3.00		1.50	5.63
185.0	3.08		1.67	5.58
190.0	3.17		1.43	5.42
195.0	3.25		1.45	5.08
200.0	3.33		1.26	5.10
205.0	3.42		1.48	5.12
210.0	3.50		1.44	5.26
215.0	3.58		1.45	4.95
220.0	3.67		1.27	4.81
225.0	3.75		1.09	4.53
230.0	3.83		1.47	4.77
235.0	3.92		1.10	4.75
240.0	4.00		1.06	4.57
245.0	4.08		1.16	4.42
250.0	4.17		1.26	4.22
255.0	4.25		1.09	4.55
260.0	4.33		1.12	4.40
265.0	4.42		1.12	4.34
270.0	4.50		1.07	3.96
275.0	4.58		0.96	4.14
280.0	4.67		0.97	4.15
285.0	4.75		1.16	4.17
290.0	4.83		1.09	4.27
295.0	4.92		1.08	3.92
300.0	5.00		0.99	4.08

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-8.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-8		
Location:	Bridgeton Landfill		
Sounding Date:	19-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	79
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	12.800		
Longest Trace - Depth (ft):	41.994		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 8.500 / 27.887	2 / 61 / 12.800 / 41.994
0.0	0.00		3.12	2.90
5.0	0.08		2.01	2.24
10.0	0.17		2.08	1.92
15.0	0.25		2.28	2.69
20.0	0.33		2.01	2.21
25.0	0.42		1.65	2.19
30.0	0.50		1.69	2.08
35.0	0.58		1.49	2.21
40.0	0.67		1.56	2.12
45.0	0.75		1.32	1.99
50.0	0.83		1.35	2.15
55.0	0.92		1.28	2.02
60.0	1.00		1.16	1.83
65.0	1.08		0.98	1.99
70.0	1.17		0.97	1.89
75.0	1.25		0.88	1.64
80.0	1.33		0.94	1.78
85.0	1.42		0.82	1.63
90.0	1.50		0.65	1.61
95.0	1.58		0.71	1.66
100.0	1.67		0.66	1.50
105.0	1.75		0.58	1.55
110.0	1.83		0.58	1.45
115.0	1.92		0.54	1.50
120.0	2.00		0.42	1.37
125.0	2.08		0.42	1.39
130.0	2.17		0.60	1.28

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	8.500	12.800
		Depth (ft)	27.887	41.994
135.0	2.25		0.46	1.27
140.0	2.33		0.27	1.23
145.0	2.42		0.32	1.28
150.0	2.50		0.37	1.28
155.0	2.58		0.20	1.08
160.0	2.67		0.15	1.21
165.0	2.75		0.22	1.13
170.0	2.83		0.29	1.12
175.0	2.92		0.20	0.97
180.0	3.00		0.11	0.97
185.0	3.08		0.16	1.01
190.0	3.17		0.08	0.91
195.0	3.25		0.04	0.84
200.0	3.33		0.11	0.89
205.0	3.42		-0.07	0.79
210.0	3.50		-0.07	0.86
215.0	3.58		0.02	0.88
220.0	3.67		0.06	0.91
225.0	3.75		-0.01	0.79
230.0	3.83		-0.07	0.93
235.0	3.92		0.06	0.67
240.0	4.00		-0.05	0.61
245.0	4.08		-0.12	0.60
250.0	4.17		-0.15	0.66
255.0	4.25		-0.03	0.66
260.0	4.33		-0.13	0.67
265.0	4.42		-0.07	0.58
270.0	4.50		-0.04	0.51
275.0	4.58		-0.20	0.53
280.0	4.67		-0.14	0.55
285.0	4.75		-0.26	0.61
290.0	4.83		-0.13	0.55
295.0	4.92		-0.36	0.37
300.0	5.00		-0.18	0.65

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-9.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-9		
Location:	Bridgeton Landfill/ Bridgeton,		
Sounding Date:	17-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	90
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	16.350		
Longest Trace - Depth (ft):	53.641		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.650 / 21.817	2 / 61 / 16.350 / 53.641
0.0	0.00		53.57	7.02
5.0	0.08		136.95	4.07
10.0	0.17		136.09	-0.48
15.0	0.25		130.86	1.04
20.0	0.33		125.23	1.42
25.0	0.42		119.99	1.09
30.0	0.50		114.85	1.14
35.0	0.58		110.52	1.35
40.0	0.67		106.94	1.27
45.0	0.75		102.61	1.15
50.0	0.83		99.49	1.00
55.0	0.92		96.02	1.11
60.0	1.00		92.98	0.99
65.0	1.08		90.53	0.94
70.0	1.17		87.99	1.18
75.0	1.25		85.61	1.16
80.0	1.33		83.43	1.29
85.0	1.42		81.48	1.10
90.0	1.50		79.60	0.87
95.0	1.58		77.83	1.17
100.0	1.67		75.99	1.23
105.0	1.75		74.35	1.08
110.0	1.83		72.63	1.07
115.0	1.92		71.13	1.00
120.0	2.00		70.10	0.98
125.0	2.08		68.78	1.25
130.0	2.17		67.38	0.80

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.650	16.350
		Depth (ft)	21.817	53.641
135.0	2.25		66.45	1.41
140.0	2.33		65.47	1.01
145.0	2.42		64.17	1.01
150.0	2.50		62.79	1.07
155.0	2.58		62.09	0.92
160.0	2.67		61.17	1.02
165.0	2.75		60.03	1.01
170.0	2.83		58.92	1.03
175.0	2.92		58.42	0.86
180.0	3.00		57.38	0.90
185.0	3.08		56.44	1.16
190.0	3.17		55.53	0.97
195.0	3.25		54.89	0.99
200.0	3.33		54.16	0.94
205.0	3.42		53.34	0.80
210.0	3.50		52.80	1.26
215.0	3.58		52.44	1.15
220.0	3.67		51.75	1.09
225.0	3.75		50.81	0.91
230.0	3.83		50.49	0.94
235.0	3.92		49.92	0.79
240.0	4.00		49.35	1.38
245.0	4.08		48.58	0.99
250.0	4.17		48.30	0.98
255.0	4.25		47.70	1.04
260.0	4.33		47.28	1.07
265.0	4.42		46.92	0.94
270.0	4.50		46.30	1.02
275.0	4.58		45.80	1.06
280.0	4.67		45.16	1.40
285.0	4.75		45.23	1.35
290.0	4.83		44.76	1.47
295.0	4.92		44.44	1.66
300.0	5.00		44.08	1.92

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-10.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-10		
Location:	Bridgeton Landfill		
Sounding Date:	19-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	1	Of	104
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	13.000		
Longest Trace - Depth (ft):	42.650		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 13.000 / 42.650
0.0	0.00		4.76
5.0	0.08		2.48
10.0	0.17		-3.55
15.0	0.25		-1.21
20.0	0.33		-0.43
25.0	0.42		-0.05
30.0	0.50		0.07
35.0	0.58		0.31
40.0	0.67		0.27
45.0	0.75		0.34
50.0	0.83		0.25
55.0	0.92		0.35
60.0	1.00		0.42
65.0	1.08		0.33
70.0	1.17		0.34
75.0	1.25		0.38
80.0	1.33		0.33
85.0	1.42		0.27
90.0	1.50		0.28
95.0	1.58		0.25
100.0	1.67		0.12
105.0	1.75		0.21
110.0	1.83		0.17
115.0	1.92		0.13
120.0	2.00		0.15
125.0	2.08		0.09
130.0	2.17		0.15

Time (s)	Time (min)	Trace No.	1
		Trace Points	61
		Depth (m)	13.000
		Depth (ft)	42.650
135.0	2.25		0.21
140.0	2.33		0.10
145.0	2.42		0.06
150.0	2.50		0.07
155.0	2.58		0.09
160.0	2.67		-0.01
165.0	2.75		0.01
170.0	2.83		0.00
175.0	2.92		-0.06
180.0	3.00		-0.02
185.0	3.08		0.01
190.0	3.17		0.03
195.0	3.25		0.00
200.0	3.33		0.03
205.0	3.42		-0.08
210.0	3.50		-0.05
215.0	3.58		-0.13
220.0	3.67		-0.15
225.0	3.75		-0.12
230.0	3.83		-0.11
235.0	3.92		-0.21
240.0	4.00		-0.02
245.0	4.08		-0.11
250.0	4.17		-0.08
255.0	4.25		-0.10
260.0	4.33		-0.16
265.0	4.42		-0.08
270.0	4.50		-0.11
275.0	4.58		-0.15
280.0	4.67		-0.17
285.0	4.75		-0.17
290.0	4.83		-0.18
295.0	4.92		-0.21
300.0	5.00		-0.15

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-11.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-11		
Location:	Bridgeton Landfill		
Sounding Date:	19-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	155
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	11.100		
Longest Trace - Depth (ft):	36.417		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 9.150 / 30.019	2 / 61 / 11.100 / 36.417
0.0	0.00		16.32	372.24
5.0	0.08		16.45	479.42
10.0	0.17		15.82	400.03
15.0	0.25		15.64	445.13
20.0	0.33		15.94	396.33
25.0	0.42		15.98	361.19
30.0	0.50		16.08	323.77
35.0	0.58		16.57	287.94
40.0	0.67		16.54	262.88
45.0	0.75		16.96	241.02
50.0	0.83		17.22	224.20
55.0	0.92		17.18	208.97
60.0	1.00		17.57	196.51
65.0	1.08		17.76	186.97
70.0	1.17		18.24	177.28
75.0	1.25		18.09	169.63
80.0	1.33		18.31	161.48
85.0	1.42		18.79	154.42
90.0	1.50		19.03	146.88
95.0	1.58		18.96	140.06
100.0	1.67		18.94	133.85
105.0	1.75		19.04	128.22
110.0	1.83		19.48	122.69
115.0	1.92		19.47	117.35
120.0	2.00		19.51	112.62
125.0	2.08		19.77	107.73
130.0	2.17		19.96	103.53

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	9.150	11.100
		Depth (ft)	30.019	36.417
135.0	2.25		19.61	99.11
140.0	2.33		19.75	95.17
145.0	2.42		19.96	91.09
150.0	2.50		19.99	87.40
155.0	2.58		19.85	83.53
160.0	2.67		19.87	80.34
165.0	2.75		20.18	77.04
170.0	2.83		20.05	72.66
175.0	2.92		19.91	68.94
180.0	3.00		20.02	65.33
185.0	3.08		20.16	62.09
190.0	3.17		19.93	59.19
195.0	3.25		19.97	56.28
200.0	3.33		19.90	53.71
205.0	3.42		19.86	51.16
210.0	3.50		20.00	48.49
215.0	3.58		19.87	46.34
220.0	3.67		19.87	44.09
225.0	3.75		19.92	42.01
230.0	3.83		19.83	40.14
235.0	3.92		19.86	37.89
240.0	4.00		19.82	36.26
245.0	4.08		19.84	34.55
250.0	4.17		19.66	32.84
255.0	4.25		19.59	31.05
260.0	4.33		19.48	29.73
265.0	4.42		19.64	28.28
270.0	4.50		19.53	26.76
275.0	4.58		19.31	25.55
280.0	4.67		19.37	24.28
285.0	4.75		19.69	23.06
290.0	4.83		19.58	22.25
295.0	4.92		19.23	20.93
300.0	5.00		19.09	20.02

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-12.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-12		
Location:	Bridgeton Landfill		
Sounding Date:	19-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	96
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	71		
Longest Trace - Depth (m):	18.500		
Longest Trace - Depth (ft):	60.695		
Longest Trace - Duration (s):	350.0		
Longest Trace - Duration (min):	5.83		
Longest Trace - Duration (hrs):	0.097		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 10.550 / 34.612	2 / 71 / 18.500 / 60.695
0.0	0.00		8.18	12.18
5.0	0.08		7.76	11.97
10.0	0.17		7.99	11.93
15.0	0.25		8.05	11.82
20.0	0.33		7.42	11.73
25.0	0.42		7.60	11.72
30.0	0.50		7.53	11.66
35.0	0.58		7.71	11.61
40.0	0.67		7.49	11.69
45.0	0.75		7.51	11.14
50.0	0.83		7.34	10.96
55.0	0.92		7.24	11.18
60.0	1.00		6.98	11.03
65.0	1.08		7.16	11.29
70.0	1.17		7.30	10.75
75.0	1.25		7.27	10.63
80.0	1.33		6.95	10.78
85.0	1.42		7.06	10.31
90.0	1.50		6.75	10.61
95.0	1.58		7.05	10.53
100.0	1.67		7.06	10.40
105.0	1.75		6.50	10.57
110.0	1.83		6.87	10.19
115.0	1.92		6.59	10.22
120.0	2.00		6.45	10.39
125.0	2.08		6.86	10.32
130.0	2.17		6.75	10.00

Time (s)	Time (min)	Trace No. Trace Points	1 61	2 71
		Depth (m)	10.550	18.500
		Depth (ft)	34.612	60.695
135.0	2.25		6.16	10.04
140.0	2.33		6.53	9.65
145.0	2.42		6.43	10.02
150.0	2.50		6.24	10.09
155.0	2.58		6.31	10.07
160.0	2.67		6.14	9.97
165.0	2.75		6.21	9.81
170.0	2.83		6.47	10.08
175.0	2.92		6.29	9.80
180.0	3.00		6.22	9.86
185.0	3.08		6.01	9.83
190.0	3.17		6.36	9.73
195.0	3.25		6.30	9.57
200.0	3.33		5.95	9.89
205.0	3.42		6.06	9.61
210.0	3.50		6.09	9.62
215.0	3.58		6.09	9.52
220.0	3.67		5.68	9.70
225.0	3.75		5.76	9.71
230.0	3.83		6.02	9.32
235.0	3.92		5.77	9.36
240.0	4.00		5.87	9.43
245.0	4.08		5.97	9.34
250.0	4.17		5.84	9.72
255.0	4.25		5.63	9.23
260.0	4.33		5.39	9.00
265.0	4.42		5.57	9.66
270.0	4.50		5.78	9.12
275.0	4.58		5.61	9.26
280.0	4.67		5.87	8.92
285.0	4.75		5.73	8.83
290.0	4.83		5.63	9.29
295.0	4.92		5.57	9.01
300.0	5.00		5.39	9.18
305.0	5.08			9.12
310.0	5.17			9.01
315.0	5.25			8.98
320.0	5.33			9.00
325.0	5.42			9.10
330.0	5.50			8.79
335.0	5.58			9.10
340.0	5.67			9.15
345.0	5.75			8.84
350.0	5.83			8.70

ConeTec Pore Pressure Dissipation Data

Original File:	13-53075_GP1C-13.PPD		
Job Number:	13-53075		
Sounding ID:	GCPT-1C-13		
Location:	Bridgeton Landfill/ Bridgeto		
Sounding Date:	17-Feb-2014		
Cone Area (sq cm):	15.0		
Number Of Reported Traces:	2	Of	102
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	2		
Longest Trace - Points:	61		
Longest Trace - Depth (m):	14.350		
Longest Trace - Depth (ft):	47.079		
Longest Trace - Duration (s):	300.0		
Longest Trace - Duration (min):	5.00		
Longest Trace - Duration (hrs):	0.083		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 61 / 6.150 / 20.177	2 / 61 / 14.350 / 47.079
0.0	0.00		27.49	7.67
5.0	0.08		42.95	5.57
10.0	0.17		46.04	1.14
15.0	0.25		48.84	2.36
20.0	0.33		51.79	3.09
25.0	0.42		54.21	3.64
30.0	0.50		56.15	4.02
35.0	0.58		58.02	4.20
40.0	0.67		59.72	4.28
45.0	0.75		61.05	4.33
50.0	0.83		62.18	4.35
55.0	0.92		62.89	4.34
60.0	1.00		63.71	4.35
65.0	1.08		63.73	4.31
70.0	1.17		63.83	4.26
75.0	1.25		64.26	4.33
80.0	1.33		64.69	4.39
85.0	1.42		65.03	4.51
90.0	1.50		65.19	4.57
95.0	1.58		65.38	4.51
100.0	1.67		65.49	4.44
105.0	1.75		65.70	4.52
110.0	1.83		65.75	4.51
115.0	1.92		65.91	4.54
120.0	2.00		66.08	4.52
125.0	2.08		66.18	4.51
130.0	2.17		66.18	4.52

Time (s)	Time (min)	Trace No.	1	2
		Trace Points	61	61
		Depth (m)	6.150	14.350
		Depth (ft)	20.177	47.079
135.0	2.25		66.09	4.48
140.0	2.33		66.17	4.44
145.0	2.42		66.32	4.58
150.0	2.50		66.26	4.55
155.0	2.58		66.42	4.62
160.0	2.67		66.21	4.52
165.0	2.75		66.34	4.66
170.0	2.83		66.31	4.59
175.0	2.92		66.30	4.75
180.0	3.00		66.16	4.65
185.0	3.08		66.36	4.70
190.0	3.17		66.43	4.66
195.0	3.25		67.01	4.70
200.0	3.33		66.22	4.83
205.0	3.42		67.06	4.77
210.0	3.50		66.74	4.73
215.0	3.58		66.33	4.83
220.0	3.67		66.08	4.85
225.0	3.75		65.95	4.82
230.0	3.83		65.79	4.75
235.0	3.92		65.74	4.86
240.0	4.00		65.53	4.89
245.0	4.08		65.40	4.92
250.0	4.17		65.29	4.86
255.0	4.25		65.36	4.82
260.0	4.33		65.26	4.78
265.0	4.42		65.25	4.88
270.0	4.50		65.15	4.96
275.0	4.58		65.11	4.93
280.0	4.67		65.06	4.97
285.0	4.75		64.86	4.98
290.0	4.83		64.82	4.90
295.0	4.92		64.89	4.90
300.0	5.00		64.76	4.99

Appendix A-3:

Phase 1D GCPT Data from ConeTec

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272376				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-01				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			03:06				
15		CPT File:			15-53039_GP1D-01.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			721981.170				
31		Northing / Lat:			4294315.279				
32		Elevation:			140.890				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	39.040	39.061	0.023	3.400	0.059	22.200
40	2	0.100	0.328	48.270	48.338	0.040	10.820	0.083	25.800
41	3	0.150	0.492	45.300	45.350	0.129	8.080	0.284	32.100
42	4	0.200	0.656	45.710	45.725	0.212	2.410	0.464	36.200
43	5	0.250	0.820	47.340	47.343	0.332	0.440	0.701	46.600
44	6	0.300	0.984	18.700	18.900	0.417	32.040	2.206	54.200
45	7	0.350	1.148	26.940	26.981	0.513	6.500	1.901	66.100
46	8	0.400	1.312	39.960	39.942	0.661	-2.910	1.655	64.300
47	9	0.450	1.476	43.080	43.067	0.610	-2.110	1.416	61.600
48	10	0.500	1.640	44.620	44.573	0.788	-7.510	1.768	58.100
49	11	0.550	1.804	39.900	39.837	0.758	-10.110	1.903	52.800
50	12	0.600	1.968	36.090	36.044	1.195	-7.440	3.315	56.100
51	13	0.650	2.133	41.860	41.824	1.225	-5.810	2.929	49.100
52	14	0.700	2.297	58.800	58.762	0.803	-6.100	1.367	52.000
53	15	0.750	2.461	36.140	36.136	0.688	-0.700	1.904	61.000
54	16	0.800	2.625	25.620	25.642	0.794	3.540	3.096	57.100
55	17	0.850	2.789	25.440	25.442	0.563	0.400	2.213	59.100
56	18	0.900	2.953	32.620	32.636	0.506	2.490	1.550	54.200
57	19	0.950	3.117	43.920	43.912	0.378	-1.290	0.861	49.700
58	20	1.000	3.281	51.140	51.187	0.338	7.560	0.660	59.200
59	21	1.050	3.445	40.570	40.572	0.349	0.260	0.860	48.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	30.540	30.542	0.364	0.370	1.192	49.100
61	23	1.150	3.773	22.230	22.229	0.346	-0.160	1.557	56.900
62	24	1.200	3.937	13.020	13.024	0.339	0.710	2.603	45.500
63	25	1.250	4.101	7.930	7.939	0.237	1.380	2.985	51.800
64	26	1.300	4.265	6.120	6.136	0.191	2.520	3.113	66.100
65	27	1.350	4.429	9.140	9.107	0.163	-5.350	1.790	56.800
66	28	1.400	4.593	12.020	12.021	0.346	0.130	2.878	47.500
67	29	1.450	4.757	14.090	14.114	0.350	3.840	2.480	50.900
68	30	1.500	4.921	11.550	11.533	0.313	-2.720	2.714	51.100
69	31	1.550	5.085	6.850	6.955	0.303	16.800	4.357	48.200
70	32	1.600	5.249	17.510	17.467	0.286	-6.900	1.637	62.800
71	33	1.650	5.413	8.050	8.116	0.208	10.560	2.563	65.700
72	34	1.700	5.577	12.830	13.036	0.268	33.010	2.056	75.800
73	35	1.750	5.741	13.250	13.339	0.295	14.260	2.212	69.900
74	36	1.800	5.905	10.890	10.967	0.308	12.270	2.809	88.400
75	37	1.850	6.069	9.940	10.042	0.260	16.380	2.589	88.000
76	38	1.900	6.234	9.290	9.393	0.237	16.550	2.523	98.000
77	39	1.950	6.398	8.130	8.226	0.282	15.350	3.428	73.700
78	40	2.000	6.562	7.160	7.191	0.293	5.040	4.074	91.600
79	41	2.050	6.726	7.710	7.761	0.328	8.130	4.226	87.000
80	42	2.100	6.890	12.990	13.080	0.400	14.430	3.058	96.900
81	43	2.150	7.054	16.780	16.892	0.532	17.970	3.149	101.700
82	44	2.200	7.218	17.170	17.219	0.614	7.910	3.566	82.600
83	45	2.250	7.382	15.550	15.577	0.615	4.300	3.948	86.900
84	46	2.300	7.546	18.610	18.659	0.534	7.870	2.862	89.700
85	47	2.350	7.710	40.080	40.120	0.567	6.390	1.413	82.500
86	48	2.400	7.874	41.860	41.841	0.626	-3.020	1.496	101.500
87	49	2.450	8.038	38.220	38.185	0.350	-5.610	0.917	82.400
88	50	2.500	8.202	36.390	36.348	0.235	-6.730	0.647	83.100
89	51	2.550	8.366	23.590	23.555	0.206	-5.640	0.875	84.400
90	52	2.600	8.530	15.550	15.504	0.717	-7.300	4.624	74.200
91	53	2.650	8.694	21.290	21.259	0.484	-4.950	2.277	85.500
92	54	2.700	8.858	57.590	57.565	0.821	-4.000	1.426	104.800
93	55	2.750	9.022	14.940	14.854	0.864	-13.850	5.817	82.100
94	56	2.800	9.186	3.390	3.426	1.107	5.730	32.314	74.200
95	57	2.850	9.350	21.640	21.644	0.787	0.700	3.636	82.800
96	58	2.900	9.514	5.340	5.397	0.771	9.130	14.286	77.100
97	59	2.950	9.678	15.790	15.939	0.399	23.920	2.503	80.500
98	60	3.000	9.842	15.580	15.612	0.474	5.200	3.036	64.900
99	61	3.050	10.006	17.350	17.325	0.467	-3.940	2.695	68.700
100	62	3.100	10.170	12.840	12.775	0.309	-10.350	2.419	56.300
101	63	3.150	10.335	12.640	12.593	0.519	-7.510	4.121	43.800
102	64	3.200	10.499	22.680	22.695	0.594	2.410	2.617	30.300
103	65	3.250	10.663	8.410	8.430	0.742	3.180	8.802	29.400
104	66	3.300	10.827	26.000	26.105	0.773	16.750	2.961	18.200
105	67	3.350	10.991	25.140	25.164	0.811	3.830	3.223	20.600
106	68	3.400	11.155	17.540	17.645	0.829	16.820	4.698	15.600
107	69	3.450	11.319	16.580	16.581	0.552	0.140	3.329	15.100
108	70	3.500	11.483	8.120	8.208	0.498	14.140	6.067	18.700
109	71	3.550	11.647	9.870	9.879	0.391	1.410	3.958	15.100
110	72	3.600	11.811	19.980	20.016	0.292	5.710	1.459	18.100
111	73	3.650	11.975	41.720	41.740	0.414	3.200	0.992	19.500
112	74	3.700	12.139	64.200	64.241	0.678	6.610	1.055	15.600
113	75	3.750	12.303	111.330	111.350	0.597	3.200	0.536	21.100
114	76	3.800	12.467	201.220	201.316	1.097	15.320	0.545	19.300
115	77	3.850	12.631	64.480	64.583	1.268	16.470	1.963	18.500
116	78	3.900	12.795	32.870	33.025	1.294	24.810	3.918	29.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	27.280	27.306	0.907	4.110	3.322	33.100
118	80	4.000	13.123	13.440	13.536	0.771	15.380	5.696	56.700
119	81	4.050	13.287	10.880	11.026	0.422	23.450	3.827	75.500
120	82	4.100	13.451	10.090	10.472	0.311	61.130	2.970	80.400
121	83	4.150	13.615	10.300	10.648	0.263	55.760	2.470	76.800
122	84	4.200	13.779	7.900	8.104	0.198	32.610	2.443	84.100
123	85	4.250	13.943	8.360	8.608	0.193	39.700	2.242	83.600
124	86	4.300	14.107	9.050	9.356	0.217	48.970	2.319	70.000
125	87	4.350	14.271	11.050	11.228	0.312	28.460	2.779	71.400
126	88	4.400	14.436	13.190	13.346	0.424	24.910	3.177	72.400
127	89	4.450	14.600	15.170	15.161	0.413	-1.510	2.724	53.900
128	90	4.500	14.764	13.450	13.405	0.373	-7.160	2.782	56.600
129	91	4.550	14.928	24.660	24.688	0.331	4.530	1.341	37.300
130	92	4.600	15.092	15.030	15.042	0.272	1.890	1.808	35.200
131	93	4.650	15.256	15.560	15.584	0.290	3.870	1.861	17.100
132	94	4.700	15.420	14.110	14.130	0.197	3.130	1.394	16.100
133	95	4.750	15.584	8.730	8.733	0.296	0.500	3.389	31.100
134	96	4.800	15.748	13.370	13.382	0.332	1.890	2.481	26.500
135	97	4.850	15.912	5.700	5.679	0.334	-3.330	5.881	31.100
136	98	4.900	16.076	8.850	8.877	0.375	4.280	4.225	38.800
137	99	4.950	16.240	10.430	10.432	0.318	0.340	3.048	42.600
138	100	5.000	16.404	20.290	20.464	0.408	27.940	1.994	64.400
139	101	5.050	16.568	24.860	24.871	0.361	1.790	1.451	79.900
140	102	5.100	16.732	15.660	15.808	0.282	23.750	1.784	73.700
141	103	5.150	16.896	29.590	29.681	0.392	14.560	1.321	80.800
142	104	5.200	17.060	24.090	24.026	0.627	-10.200	2.610	71.500
143	105	5.250	17.224	17.850	17.801	0.674	-7.830	3.786	47.100
144	106	5.300	17.388	9.790	9.788	0.617	-0.380	6.304	43.800
145	107	5.350	17.552	16.760	16.876	0.664	18.610	3.935	34.900
146	108	5.400	17.716	15.660	15.763	0.580	16.440	3.680	23.100
147	109	5.450	17.880	13.910	13.938	0.583	4.460	4.183	21.000
148	110	5.500	18.044	20.090	20.138	0.511	7.620	2.538	18.100
149	111	5.550	18.208	27.000	27.051	0.721	8.100	2.665	11.500
150	112	5.600	18.372	22.810	22.878	0.735	10.830	3.213	13.500
151	113	5.650	18.537	14.330	14.751	0.812	67.380	5.505	12.500
152	114	5.700	18.701	22.030	22.185	0.743	24.890	3.349	12.100
153	115	5.750	18.865	19.850	20.168	0.923	50.870	4.577	14.000
154	116	5.800	19.029	36.300	36.401	1.108	16.170	3.044	10.900
155	117	5.850	19.193	27.160	27.155	1.079	-0.740	3.973	12.600
156	118	5.900	19.357	62.230	62.294	0.918	10.220	1.474	17.000
157	119	5.950	19.521	43.250	43.298	0.779	7.700	1.799	16.800
158	120	6.000	19.685	44.130	44.163	1.072	5.220	2.427	23.200
159	121	6.050	19.849	22.020	22.039	1.029	2.980	4.669	19.800
160	122	6.100	20.013	18.840	19.027	0.787	29.950	4.136	26.500
161	123	6.150	20.177	9.070	9.091	0.470	3.430	5.170	37.700
162	124	6.200	20.341	25.200	25.275	0.515	11.970	2.038	47.500
163	125	6.250	20.505	25.400	25.501	0.548	16.230	2.149	45.000
164	126	6.300	20.669	20.440	20.523	0.736	13.370	3.586	51.200
165	127	6.350	20.833	32.980	33.030	0.861	8.060	2.607	54.200
166	128	6.400	20.997	28.380	28.423	0.881	6.940	3.100	38.600
167	129	6.450	21.161	20.420	20.485	0.566	10.490	2.763	35.300
168	130	6.500	21.325	17.240	17.246	0.322	0.990	1.867	30.700
169	131	6.550	21.489	8.860	8.891	0.234	5.040	2.632	28.400
170	132	6.600	21.653	14.330	14.347	0.414	2.750	2.886	24.800
171	133	6.650	21.817	20.820	20.814	0.212	-0.900	1.019	34.400
172	134	6.700	21.981	60.840	60.843	0.337	0.460	0.554	31.700
173	135	6.750	22.145	104.810	104.813	0.877	0.490	0.837	34.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	32.780	32.774	0.601	-1.020	1.834	31.900
175	137	6.850	22.473	19.390	19.392	0.165	0.330	0.851	39.500
176	138	6.900	22.638	6.250	6.253	0.605	0.440	9.676	33.100
177	139	6.950	22.802	5.250	5.252	0.755	0.280	14.376	31.000
178	140	7.000	22.966	61.970	62.106	0.412	21.790	0.663	28.100
179	141	7.050	23.130	64.910	64.909	1.119	-0.130	1.724	16.400
180	142	7.100	23.294	134.730	134.743	1.752	2.160	1.300	20.000
181	143	7.150	23.458	63.420	63.432	1.354	1.930	2.135	26.100
182	144	7.200	23.622	65.390	65.391	0.713	0.120	1.090	31.100
183	145	7.250	23.786	55.300	55.340	0.908	6.360	1.641	39.400
184	146	7.300	23.950	62.180	62.284	1.139	16.670	1.829	43.200
185	147	7.350	24.114	36.720	36.755	0.861	5.580	2.343	52.200
186	148	7.400	24.278	4.790	4.829	0.462	6.290	9.567	40.500
187	149	7.450	24.442	5.110	5.195	0.300	13.640	5.775	37.100
188	150	7.500	24.606	8.960	9.073	0.457	18.030	5.037	46.700
189	151	7.550	24.770	25.270	25.321	0.569	8.170	2.247	38.900
190	152	7.600	24.934	11.510	11.608	0.607	15.650	5.229	38.800
191	153	7.650	25.098	10.760	10.826	0.379	10.570	3.501	48.500
192	154	7.700	25.262	11.100	11.250	0.231	23.960	2.053	62.900
193	155	7.750	25.426	16.090	16.227	0.303	21.870	1.867	60.700
194	156	7.800	25.590	25.050	25.050	0.433	-0.010	1.729	62.300
195	157	7.850	25.754	31.340	31.324	0.476	-2.500	1.520	70.100
196	158	7.900	25.918	23.390	23.337	0.495	-8.450	2.121	63.400
197	159	7.950	26.082	18.630	18.579	0.483	-8.240	2.600	66.300
198	160	8.000	26.246	19.960	19.960	0.851	-0.080	4.264	65.200
199	161	8.050	26.410	56.010	56.012	1.172	0.400	2.092	63.900
200	162	8.100	26.574	26.260	26.319	1.364	9.460	5.183	72.500
201	163	8.150	26.739	34.270	34.302	0.977	5.180	2.848	65.700
202	164	8.200	26.903	26.090	26.228	0.882	22.140	3.363	69.500
203	165	8.250	27.067	22.900	23.011	0.820	17.730	3.564	80.700
204	166	8.300	27.231	21.680	21.789	0.561	17.400	2.575	62.200
205	167	8.350	27.395	9.840	9.866	0.503	4.130	5.098	71.900
206	168	8.400	27.559	10.460	10.564	0.521	16.700	4.932	69.100
207	169	8.450	27.723	12.400	12.521	0.400	19.330	3.195	72.900
208	170	8.500	27.887	10.950	10.964	0.395	2.240	3.603	60.700
209	171	8.550	28.051	13.330	13.323	0.330	-1.120	2.477	62.000
210	172	8.600	28.215	13.510	13.685	0.456	28.090	3.332	56.700
211	173	8.650	28.379	10.300	10.374	0.312	11.850	3.008	50.400
212	174	8.700	28.543	54.270	54.340	0.668	11.190	1.229	41.600
213	175	8.750	28.707	49.850	49.864	0.596	2.310	1.195	36.700
214	176	8.800	28.871	10.460	10.486	0.588	4.120	5.608	37.400
215	177	8.850	29.035	10.770	10.769	0.224	-0.090	2.080	38.900
216	178	8.900	29.199	5.810	5.814	0.321	0.580	5.522	27.500
217	179	8.950	29.363	30.910	30.931	0.353	3.350	1.141	27.100
218	180	9.000	29.527	18.440	18.453	0.483	2.020	2.618	23.700
219	181	9.050	29.691	29.940	29.961	0.583	3.430	1.946	21.700
220	182	9.100	29.855	29.220	29.228	0.936	1.210	3.202	16.100
221	183	9.150	30.019	31.780	31.820	1.250	6.380	3.928	19.000
222	184	9.200	30.183	29.880	30.153	0.932	43.680	3.091	14.100
223	185	9.250	30.347	13.270	13.297	0.712	4.360	5.355	14.100
224	186	9.300	30.511	25.910	25.935	0.748	4.020	2.884	10.100
225	187	9.350	30.675	15.160	15.200	0.964	6.460	6.342	10.000
226	188	9.400	30.840	46.880	46.945	1.229	10.430	2.618	19.000
227	189	9.450	31.004	68.100	68.243	1.532	22.900	2.245	21.500
228	190	9.500	31.168	52.060	52.102	1.522	6.800	2.921	34.100
229	191	9.550	31.332	9.370	9.377	1.135	1.120	12.104	33.800
230	192	9.600	31.496	32.320	32.342	0.442	3.460	1.367	53.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	50.200	50.206	0.303	0.980	0.604	53.600
232	194	9.700	31.824	58.350	58.359	0.302	1.490	0.517	54.600
233	195	9.750	31.988	47.740	47.750	0.336	1.660	0.704	70.600
234	196	9.800	32.152	41.510	41.539	0.342	4.660	0.823	63.700
235	197	9.850	32.316	39.970	40.002	0.231	5.120	0.577	70.600
236	198	9.900	32.480	39.610	39.623	0.168	2.070	0.424	72.800
237	199	9.950	32.644	37.390	37.399	0.302	1.460	0.808	74.000
238	200	10.000	32.808	26.070	26.081	0.386	1.690	1.480	0.000
239	201	10.050	32.972	23.010	23.071	0.409	9.760	1.773	0.000
240	202	10.100	33.136	21.090	21.197	0.225	17.160	1.061	0.000
241	203	10.150	33.300	24.160	24.238	0.161	12.540	0.664	0.000
242	204	10.200	33.464	19.750	19.827	0.267	12.370	1.347	0.000
243	205	10.250	33.628	30.690	30.820	0.297	20.840	0.964	0.000
244	206	10.300	33.792	81.070	81.192	0.392	19.540	0.483	0.000
245	207	10.350	33.956	126.870	126.883	0.660	2.160	0.520	0.000
246	208	10.400	34.120	167.660	167.677	1.023	2.750	0.610	0.000
247	209	10.450	34.284	220.640	220.707	1.401	10.720	0.635	0.000
248	210	10.500	34.448	289.390	289.518	1.750	20.480	0.604	0.000
249	211	10.550	34.612	301.490	301.612	1.997	19.480	0.662	0.000
250	212	10.600	34.776	341.040	341.209	2.339	27.120	0.686	0.000
251	213	10.650	34.941	356.410	356.459	0.000	7.880	0.000	0.000
252	214	10.700	35.105	361.250	361.313	0.000	10.070	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272378				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-02				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			04:13				
15		CPT File:			15-53039_GP1D-02.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			721991.990				
31		Northing / Lat:			4294289.329				
32		Elevation:			142.680				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	1.060	1.062	0.004	0.390	0.376	22.000
40	2	0.100	0.328	41.350	41.386	0.054	5.810	0.130	17.600
41	3	0.150	0.492	46.800	46.786	0.038	-2.170	0.081	16.100
42	4	0.200	0.656	40.800	40.825	0.054	4.020	0.132	22.900
43	5	0.250	0.820	62.150	62.151	0.211	0.130	0.339	28.600
44	6	0.300	0.984	46.870	46.916	0.253	7.380	0.539	31.100
45	7	0.350	1.148	49.160	49.150	0.372	-1.590	0.757	23.200
46	8	0.400	1.312	38.180	38.184	0.301	0.680	0.788	36.600
47	9	0.450	1.476	53.690	53.702	0.397	1.980	0.739	38.100
48	10	0.500	1.640	36.380	36.388	0.357	1.280	0.981	68.200
49	11	0.550	1.804	31.970	31.985	0.508	2.380	1.588	62.900
50	12	0.600	1.968	38.470	38.448	0.760	-3.550	1.977	66.600
51	13	0.650	2.133	34.380	34.332	0.644	-7.630	1.876	61.100
52	14	0.700	2.297	57.100	57.041	0.658	-9.420	1.154	73.300
53	15	0.750	2.461	50.220	50.145	0.738	-12.040	1.472	67.200
54	16	0.800	2.625	40.060	40.008	0.793	-8.380	1.982	69.500
55	17	0.850	2.789	29.960	29.902	0.846	-9.290	2.829	60.900
56	18	0.900	2.953	22.600	22.543	0.967	-9.180	4.290	61.000
57	19	0.950	3.117	24.600	24.555	0.837	-7.160	3.409	67.500
58	20	1.000	3.281	46.460	46.445	2.019	-2.390	4.347	61.100
59	21	1.050	3.445	30.060	30.084	1.915	3.920	6.365	59.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	280.320	280.346	1.724	4.240	0.615	60.800
61	23	1.150	3.773	320.560	320.531	1.621	-4.610	0.506	61.400
62	24	1.200	3.937	265.560	265.522	2.447	-6.160	0.922	62.900
63	25	1.250	4.101	58.170	58.111	3.642	-9.400	6.267	52.100
64	26	1.300	4.265	38.910	38.870	2.059	-6.430	5.297	51.100
65	27	1.350	4.429	15.380	15.348	0.477	-5.150	3.108	51.800
66	28	1.400	4.593	110.260	110.235	0.324	-4.080	0.294	58.000
67	29	1.450	4.757	30.150	30.152	0.288	0.290	0.955	62.200
68	30	1.500	4.921	19.210	19.211	0.255	0.160	1.327	70.100
69	31	1.550	5.085	14.190	14.184	0.335	-1.010	2.362	71.500
70	32	1.600	5.249	17.220	17.223	0.428	0.530	2.485	65.700
71	33	1.650	5.413	17.990	17.995	0.448	0.810	2.490	74.500
72	34	1.700	5.577	16.320	16.332	0.455	1.850	2.786	80.700
73	35	1.750	5.741	17.540	17.537	0.433	-0.540	2.469	81.900
74	36	1.800	5.905	17.860	17.860	0.321	0.040	1.797	85.700
75	37	1.850	6.069	17.030	16.983	0.258	-7.530	1.519	65.200
76	38	1.900	6.234	16.440	16.443	0.271	0.440	1.648	50.600
77	39	1.950	6.398	22.470	22.470	0.266	-0.060	1.184	40.700
78	40	2.000	6.562	12.360	12.387	0.351	4.270	2.834	50.700
79	41	2.050	6.726	14.560	14.565	0.291	0.730	1.998	36.400
80	42	2.100	6.890	13.090	13.106	0.426	2.630	3.250	28.900
81	43	2.150	7.054	16.410	16.416	0.196	0.950	1.194	24.100
82	44	2.200	7.218	11.480	11.502	0.206	3.590	1.791	21.900
83	45	2.250	7.382	17.760	17.784	0.163	3.920	0.917	29.000
84	46	2.300	7.546	16.150	16.192	0.308	6.660	1.902	20.300
85	47	2.350	7.710	16.120	16.143	0.340	3.760	2.106	19.800
86	48	2.400	7.874	13.520	13.605	0.362	13.560	2.661	25.300
87	49	2.450	8.038	10.550	10.616	0.263	10.610	2.477	19.400
88	50	2.500	8.202	13.420	13.413	0.224	-1.130	1.670	18.700
89	51	2.550	8.366	21.580	21.656	0.081	12.130	0.374	28.400
90	52	2.600	8.530	15.930	15.926	0.068	-0.690	0.427	32.500
91	53	2.650	8.694	10.760	10.759	0.079	-0.240	0.734	33.300
92	54	2.700	8.858	15.080	15.163	0.121	13.300	0.798	33.000
93	55	2.750	9.022	12.710	12.708	0.143	-0.310	1.125	40.600
94	56	2.800	9.186	21.040	21.038	0.282	-0.250	1.340	28.200
95	57	2.850	9.350	19.570	19.618	0.424	7.670	2.161	26.200
96	58	2.900	9.514	19.510	19.506	0.376	-0.630	1.928	21.800
97	59	2.950	9.678	17.590	17.603	0.349	2.080	1.983	32.100
98	60	3.000	9.842	11.920	11.945	0.120	3.970	1.005	22.900
99	61	3.050	10.006	73.530	73.536	0.888	0.960	1.208	24.600
100	62	3.100	10.170	167.050	167.061	0.783	1.700	0.469	25.000
101	63	3.150	10.335	20.420	20.537	1.274	18.710	6.203	21.300
102	64	3.200	10.499	17.590	17.595	0.741	0.810	4.211	22.700
103	65	3.250	10.663	85.520	85.523	0.779	0.470	0.911	34.000
104	66	3.300	10.827	67.570	67.737	0.791	26.730	1.168	36.600
105	67	3.350	10.991	18.910	18.917	0.764	1.130	4.039	50.300
106	68	3.400	11.155	10.880	10.893	0.211	2.140	1.937	58.700
107	69	3.450	11.319	7.760	7.853	0.249	14.850	3.171	68.000
108	70	3.500	11.483	10.590	10.693	0.175	16.570	1.637	76.100
109	71	3.550	11.647	12.120	12.181	0.148	9.780	1.215	71.100
110	72	3.600	11.811	11.090	11.094	0.189	0.600	1.704	70.700
111	73	3.650	11.975	8.330	8.323	0.153	-1.130	1.838	61.000
112	74	3.700	12.139	6.930	6.913	0.157	-2.750	2.271	60.100
113	75	3.750	12.303	7.180	7.166	0.183	-2.170	2.554	47.500
114	76	3.800	12.467	8.980	8.966	0.231	-2.210	2.576	51.100
115	77	3.850	12.631	13.860	13.855	0.242	-0.820	1.747	36.200
116	78	3.900	12.795	32.130	32.131	0.403	0.140	1.254	35.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	51.580	51.581	0.511	0.130	0.991	31.100
118	80	4.000	13.123	56.910	56.932	0.380	3.490	0.667	29.000
119	81	4.050	13.287	59.210	59.255	0.635	7.250	1.072	23.400
120	82	4.100	13.451	55.520	55.569	0.618	7.890	1.112	27.600
121	83	4.150	13.615	10.440	10.425	0.322	-2.380	3.089	31.600
122	84	4.200	13.779	12.860	12.886	0.374	4.220	2.902	35.700
123	85	4.250	13.943	5.080	5.089	0.462	1.510	9.078	37.400
124	86	4.300	14.107	147.360	147.364	0.647	0.570	0.439	45.800
125	87	4.350	14.271	114.800	114.802	0.727	0.320	0.633	52.200
126	88	4.400	14.436	32.550	32.622	0.908	11.600	2.783	62.600
127	89	4.450	14.600	13.720	13.742	0.945	3.490	6.877	62.700
128	90	4.500	14.764	19.320	19.358	0.894	6.090	4.618	64.900
129	91	4.550	14.928	84.550	84.550	0.544	-0.020	0.643	62.300
130	92	4.600	15.092	65.130	65.135	0.339	0.820	0.520	63.700
131	93	4.650	15.256	104.390	104.393	0.285	0.490	0.273	71.500
132	94	4.700	15.420	88.430	88.449	1.645	3.020	1.860	61.000
133	95	4.750	15.584	29.110	29.168	2.122	9.280	7.275	54.500
134	96	4.800	15.748	30.530	30.534	1.209	0.690	3.959	60.400
135	97	4.850	15.912	25.430	25.432	0.089	0.270	0.350	49.500
136	98	4.900	16.076	21.990	22.004	0.254	2.190	1.154	45.500
137	99	4.950	16.240	23.360	23.363	0.354	0.460	1.515	48.000
138	100	5.000	16.404	9.240	9.246	0.341	1.030	3.688	33.600
139	101	5.050	16.568	4.570	4.618	0.226	7.700	4.894	36.900
140	102	5.100	16.732	10.770	10.768	0.224	-0.260	2.080	36.100
141	103	5.150	16.896	11.520	11.523	0.168	0.530	1.458	46.200
142	104	5.200	17.060	2.150	2.146	0.161	-0.640	7.502	52.400
143	105	5.250	17.224	16.090	16.089	0.281	-0.170	1.747	61.800
144	106	5.300	17.388	24.130	24.107	0.521	-3.670	2.161	56.700
145	107	5.350	17.552	46.190	46.177	0.573	-2.150	1.241	67.100
146	108	5.400	17.716	30.880	30.897	0.590	2.680	1.910	52.700
147	109	5.450	17.880	31.230	31.252	0.422	3.600	1.350	46.600
148	110	5.500	18.044	24.340	24.334	0.236	-0.890	0.970	33.600
149	111	5.550	18.208	13.700	13.701	0.229	0.170	1.671	37.300
150	112	5.600	18.372	15.200	15.212	0.274	1.970	1.801	30.300
151	113	5.650	18.537	24.590	24.613	0.374	3.710	1.520	32.600
152	114	5.700	18.701	24.450	24.439	0.464	-1.800	1.899	37.700
153	115	5.750	18.865	12.940	12.940	0.467	-0.070	3.609	51.900
154	116	5.800	19.029	10.800	10.863	0.378	10.040	3.480	56.100
155	117	5.850	19.193	9.490	9.511	0.259	3.330	2.723	66.000
156	118	5.900	19.357	31.520	31.553	0.206	5.280	0.653	49.300
157	119	5.950	19.521	52.940	52.967	0.868	4.380	1.639	36.700
158	120	6.000	19.685	49.330	49.340	1.059	1.620	2.146	37.500
159	121	6.050	19.849	39.950	39.996	0.971	7.420	2.428	29.700
160	122	6.100	20.013	54.600	54.608	0.372	1.350	0.681	33.300
161	123	6.150	20.177	45.900	45.924	0.665	3.770	1.448	24.500
162	124	6.200	20.341	26.090	26.111	0.781	3.380	2.991	16.500
163	125	6.250	20.505	11.980	11.979	0.819	-0.100	6.837	21.700
164	126	6.300	20.669	17.140	17.146	0.679	1.010	3.960	15.000
165	127	6.350	20.833	57.490	57.660	0.974	27.240	1.689	0.000
166	128	6.400	20.997	44.930	44.907	1.454	-3.760	3.238	0.000
167	129	6.450	21.161	34.180	34.190	1.421	1.570	4.156	0.000
168	130	6.500	21.325	12.190	12.278	0.903	14.050	7.355	0.000
169	131	6.550	21.489	16.160	16.279	0.835	19.090	5.129	0.000
170	132	6.600	21.653	33.240	33.545	0.633	48.900	1.887	0.000
171	133	6.650	21.817	34.170	34.148	0.497	-3.500	1.455	0.000
172	134	6.700	21.981	42.570	42.574	0.216	0.720	0.507	0.000
173	135	6.750	22.145	50.770	50.795	0.172	4.070	0.339	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	64.880	64.909	0.151	4.640	0.233	0.000
175	137	6.850	22.473	73.460	73.483	0.314	3.670	0.427	0.000
176	138	6.900	22.638	68.230	68.236	0.461	1.040	0.676	0.000
177	139	6.950	22.802	37.950	37.995	1.179	7.180	3.103	0.000
178	140	7.000	22.966	54.890	55.090	2.006	32.020	3.641	0.000
179	141	7.050	23.130	94.300	94.377	0.000	12.300	0.000	0.000
180	142	7.100	23.294	548.440	548.468	0.000	4.520	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272380				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-03				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			05:19				
15		CPT File:			15-53039_GP1D-03.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722021.479				
31		Northing / Lat:			4294281.952				
32		Elevation:			143.800				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	1.390	1.389	0.001	-0.100	0.072	23.300
40	2	0.100	0.328	30.720	30.729	0.119	1.460	0.387	23.600
41	3	0.150	0.492	43.680	43.677	0.121	-0.520	0.277	25.900
42	4	0.200	0.656	46.100	46.125	0.145	3.960	0.314	39.900
43	5	0.250	0.820	45.730	45.725	0.212	-0.740	0.464	45.000
44	6	0.300	0.984	41.200	41.300	0.392	15.940	0.949	56.900
45	7	0.350	1.148	42.760	42.782	0.606	3.550	1.416	61.700
46	8	0.400	1.312	50.590	50.566	0.914	-3.780	1.808	71.200
47	9	0.450	1.476	90.260	90.268	0.973	1.320	1.078	62.500
48	10	0.500	1.640	116.610	116.751	1.000	22.650	0.857	52.500
49	11	0.550	1.804	240.060	240.145	0.842	13.660	0.351	43.300
50	12	0.600	1.968	271.620	271.628	0.792	1.320	0.292	51.900
51	13	0.650	2.133	215.120	215.120	0.499	0.020	0.232	44.600
52	14	0.700	2.297	209.520	209.490	0.432	-4.740	0.206	39.300
53	15	0.750	2.461	212.520	212.824	0.373	48.690	0.175	29.300
54	16	0.800	2.625	213.770	213.977	0.485	33.220	0.227	28.600
55	17	0.850	2.789	198.420	198.418	0.243	-0.280	0.122	37.700
56	18	0.900	2.953	186.730	186.741	0.457	1.840	0.245	32.300
57	19	0.950	3.117	162.290	162.499	0.326	33.480	0.201	33.900
58	20	1.000	3.281	151.440	151.449	0.298	1.370	0.197	37.000
59	21	1.050	3.445	131.080	131.094	0.852	2.260	0.650	38.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	79.270	79.358	1.059	14.090	1.334	45.100
61	23	1.150	3.773	70.590	70.712	1.212	19.610	1.714	57.200
62	24	1.200	3.937	53.550	53.560	1.280	1.580	2.390	55.400
63	25	1.250	4.101	62.970	63.228	2.614	41.300	4.134	54.900
64	26	1.300	4.265	115.990	116.197	3.092	33.080	2.661	57.400
65	27	1.350	4.429	137.520	137.902	4.292	61.240	3.112	40.400
66	28	1.400	4.593	126.140	126.144	5.645	0.620	4.475	49.500
67	29	1.450	4.757	67.610	67.617	5.020	1.080	7.424	36.300
68	30	1.500	4.921	79.040	79.037	4.149	-0.410	5.249	47.800
69	31	1.550	5.085	48.370	48.352	1.155	-2.860	2.389	49.000
70	32	1.600	5.249	18.970	18.955	1.430	-2.340	7.544	53.900
71	33	1.650	5.413	12.920	12.950	0.980	4.730	7.568	75.300
72	34	1.700	5.577	10.900	10.996	0.334	15.400	3.037	82.500
73	35	1.750	5.741	15.060	15.258	0.436	31.680	2.858	79.700
74	36	1.800	5.905	17.880	18.072	0.563	30.810	3.115	72.800
75	37	1.850	6.069	23.190	23.354	0.782	26.260	3.348	90.500
76	38	1.900	6.234	34.310	34.479	1.107	27.120	3.211	87.500
77	39	1.950	6.398	41.760	41.805	1.121	7.200	2.682	105.900
78	40	2.000	6.562	57.200	57.424	1.409	35.910	2.454	103.400
79	41	2.050	6.726	58.250	58.264	1.545	2.260	2.652	90.000
80	42	2.100	6.890	85.970	86.008	1.863	6.020	2.166	102.800
81	43	2.150	7.054	73.890	73.846	1.812	-7.080	2.454	88.600
82	44	2.200	7.218	62.670	62.629	1.785	-6.530	2.850	84.500
83	45	2.250	7.382	52.480	52.429	1.606	-8.100	3.063	103.400
84	46	2.300	7.546	48.910	48.856	1.243	-8.700	2.544	79.100
85	47	2.350	7.710	40.560	40.495	0.837	-10.420	2.067	79.200
86	48	2.400	7.874	25.690	25.685	0.510	-0.750	1.986	63.900
87	49	2.450	8.038	17.160	17.163	0.410	0.430	2.389	50.000
88	50	2.500	8.202	28.230	28.238	0.707	1.300	2.504	44.500
89	51	2.550	8.366	84.020	84.015	0.734	-0.790	0.874	35.700
90	52	2.600	8.530	11.070	11.139	0.744	10.980	6.680	30.800
91	53	2.650	8.694	17.800	17.799	0.459	-0.180	2.579	26.600
92	54	2.700	8.858	22.790	22.784	0.420	-1.030	1.843	27.300
93	55	2.750	9.022	12.800	12.779	0.458	-3.370	3.584	36.800
94	56	2.800	9.186	25.300	25.319	0.415	3.020	1.639	44.900
95	57	2.850	9.350	19.250	19.351	0.503	16.160	2.599	47.600
96	58	2.900	9.514	22.400	22.494	0.358	15.130	1.592	61.500
97	59	2.950	9.678	25.890	26.025	0.388	21.580	1.491	56.400
98	60	3.000	9.842	18.680	18.698	0.360	2.820	1.925	70.100
99	61	3.050	10.006	12.810	12.829	0.360	3.120	2.806	76.700
100	62	3.100	10.170	9.050	9.069	0.276	3.110	3.043	73.100
101	63	3.150	10.335	9.300	9.320	0.202	3.230	2.167	57.200
102	64	3.200	10.499	21.400	21.392	0.313	-1.280	1.463	52.900
103	65	3.250	10.663	12.240	12.282	0.479	6.750	3.900	43.000
104	66	3.300	10.827	8.100	8.091	0.744	-1.480	9.196	31.600
105	67	3.350	10.991	64.150	64.165	0.711	2.400	1.108	29.600
106	68	3.400	11.155	109.670	109.725	0.442	8.790	0.403	27.600
107	69	3.450	11.319	146.210	146.252	0.820	6.680	0.561	20.000
108	70	3.500	11.483	25.270	25.265	0.537	-0.800	2.125	19.900
109	71	3.550	11.647	19.800	19.790	0.423	-1.550	2.137	15.900
110	72	3.600	11.811	29.790	29.828	0.374	6.010	1.254	17.200
111	73	3.650	11.975	107.030	107.025	0.952	-0.780	0.890	16.100
112	74	3.700	12.139	74.880	74.946	1.357	10.520	1.811	17.700
113	75	3.750	12.303	29.040	29.064	1.550	3.770	5.333	20.500
114	76	3.800	12.467	19.350	19.345	1.199	-0.760	6.198	26.600
115	77	3.850	12.631	38.950	38.953	1.331	0.460	3.417	28.500
116	78	3.900	12.795	29.840	29.871	1.448	5.030	4.847	29.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	48.680	48.754	1.367	11.890	2.804	34.600
118	80	4.000	13.123	29.460	29.494	0.897	5.390	3.041	26.600
119	81	4.050	13.287	32.570	32.587	0.720	2.690	2.209	29.200
120	82	4.100	13.451	21.100	21.104	0.458	0.690	2.170	33.600
121	83	4.150	13.615	21.150	21.152	0.355	0.370	1.678	26.100
122	84	4.200	13.779	31.230	31.236	0.504	1.020	1.614	34.200
123	85	4.250	13.943	57.510	57.514	0.439	0.630	0.763	49.600
124	86	4.300	14.107	77.400	77.447	0.453	7.600	0.585	63.600
125	87	4.350	14.271	50.870	50.861	0.381	-1.460	0.749	63.400
126	88	4.400	14.436	32.930	32.916	0.355	-2.280	1.079	85.300
127	89	4.450	14.600	21.520	21.525	0.329	0.840	1.528	69.700
128	90	4.500	14.764	15.720	15.724	0.299	0.630	1.902	62.000
129	91	4.550	14.928	19.790	19.785	0.165	-0.760	0.834	54.300
130	92	4.600	15.092	22.570	22.562	0.213	-1.360	0.944	27.600
131	93	4.650	15.256	32.960	32.959	0.441	-0.190	1.338	24.500
132	94	4.700	15.420	65.280	65.289	1.375	1.390	2.106	26.400
133	95	4.750	15.584	76.400	76.415	1.559	2.330	2.040	19.900
134	96	4.800	15.748	24.630	24.631	1.373	0.140	5.574	11.500
135	97	4.850	15.912	29.430	29.449	0.914	3.120	3.104	11.500
136	98	4.900	16.076	92.350	92.356	1.263	0.890	1.368	9.900
137	99	4.950	16.240	74.830	75.414	1.356	93.520	1.798	15.900
138	100	5.000	16.404	50.000	50.091	1.496	14.590	2.987	10.000
139	101	5.050	16.568	78.120	78.193	1.030	11.660	1.317	8.900
140	102	5.100	16.732	46.270	46.292	1.122	3.460	2.424	14.000
141	103	5.150	16.896	38.550	38.558	0.980	1.320	2.542	10.500
142	104	5.200	17.060	38.270	38.308	1.194	6.020	3.117	19.500
143	105	5.250	17.224	41.950	41.969	1.264	3.090	3.012	17.800
144	106	5.300	17.388	23.620	23.652	1.001	5.060	4.232	28.000
145	107	5.350	17.552	22.780	23.453	0.663	107.730	2.827	28.700
146	108	5.400	17.716	24.950	25.728	0.646	124.680	2.511	35.900
147	109	5.450	17.880	43.820	43.837	0.647	2.750	1.476	51.900
148	110	5.500	18.044	48.440	48.409	0.780	-4.970	1.611	72.500
149	111	5.550	18.208	42.050	42.030	0.531	-3.230	1.263	74.700
150	112	5.600	18.372	36.310	36.281	0.578	-4.580	1.593	65.400
151	113	5.650	18.537	33.600	33.576	0.795	-3.900	2.368	48.800
152	114	5.700	18.701	35.130	35.132	0.762	0.280	2.169	50.500
153	115	5.750	18.865	16.600	16.634	0.745	5.410	4.479	51.700
154	116	5.800	19.029	38.650	38.780	0.933	20.840	2.406	54.000
155	117	5.850	19.193	42.430	42.474	1.134	7.080	2.670	44.100
156	118	5.900	19.357	35.930	35.921	1.361	-1.480	3.789	40.400
157	119	5.950	19.521	48.850	48.887	1.785	5.900	3.651	20.900
158	120	6.000	19.685	64.390	64.501	2.222	17.830	3.445	26.000
159	121	6.050	19.849	55.650	55.766	2.623	18.510	4.704	21.400
160	122	6.100	20.013	59.530	59.600	2.406	11.220	4.037	13.500
161	123	6.150	20.177	64.050	64.145	2.094	15.230	3.264	18.300
162	124	6.200	20.341	70.270	70.314	2.394	7.060	3.405	15.400
163	125	6.250	20.505	81.090	81.161	2.905	11.440	3.579	17.000
164	126	6.300	20.669	71.240	71.396	2.615	24.950	3.663	12.000
165	127	6.350	20.833	61.080	61.718	2.620	102.120	4.245	17.900
166	128	6.400	20.997	80.590	80.872	2.320	45.160	2.869	20.000
167	129	6.450	21.161	34.120	34.366	1.826	39.410	5.313	28.200
168	130	6.500	21.325	85.310	85.455	1.286	23.220	1.505	28.300
169	131	6.550	21.489	149.120	149.210	0.981	14.360	0.657	38.900
170	132	6.600	21.653	15.050	15.103	0.863	8.560	5.714	65.500
171	133	6.650	21.817	18.710	18.868	0.707	25.270	3.747	65.500
172	134	6.700	21.981	21.140	21.321	0.598	28.980	2.805	76.200
173	135	6.750	22.145	19.560	19.612	0.617	8.400	3.146	78.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	19.860	19.937	0.521	12.320	2.613	87.000
175	137	6.850	22.473	22.220	22.337	0.546	18.790	2.444	73.600
176	138	6.900	22.638	49.780	50.036	0.718	41.070	1.435	83.400
177	139	6.950	22.802	56.770	56.842	1.047	11.590	1.842	87.000
178	140	7.000	22.966	42.270	42.297	1.142	4.400	2.700	87.100
179	141	7.050	23.130	28.650	28.713	0.812	10.070	2.828	98.500
180	142	7.100	23.294	25.020	25.139	0.747	19.000	2.972	102.200
181	143	7.150	23.458	26.570	26.724	0.811	24.650	3.035	97.500
182	144	7.200	23.622	38.890	39.127	1.279	38.020	3.269	96.600
183	145	7.250	23.786	43.770	43.800	1.443	4.880	3.294	90.200
184	146	7.300	23.950	33.490	33.549	1.660	9.400	4.948	81.100
185	147	7.350	24.114	63.310	63.716	1.663	65.050	2.610	70.600
186	148	7.400	24.278	92.030	92.153	1.876	19.760	2.036	70.600
187	149	7.450	24.442	91.990	92.191	1.632	32.130	1.770	54.500
188	150	7.500	24.606	133.690	133.683	2.111	-1.120	1.579	51.800
189	151	7.550	24.770	97.300	97.272	1.768	-4.460	1.818	65.400
190	152	7.600	24.934	71.570	71.551	3.778	-3.000	5.280	72.700
191	153	7.650	25.098	55.870	55.857	2.939	-2.100	5.262	90.500
192	154	7.700	25.262	97.440	97.497	1.694	9.160	1.737	137.000
193	155	7.750	25.426	125.280	125.306	3.916	4.100	3.125	168.700
194	156	7.800	25.590	76.180	76.185	4.570	0.870	5.999	279.700
195	157	7.850	25.754	41.430	41.393	3.101	-5.970	7.492	433.000
196	158	7.900	25.918	19.340	19.294	0.685	-7.390	3.550	395.300
197	159	7.950	26.082	12.750	12.714	0.573	-5.750	4.507	707.100
198	160	8.000	26.246	12.700	12.664	0.442	-5.790	3.490	1217.400
199	161	8.050	26.410	23.260	23.230	0.444	-4.780	1.911	1767.000
200	162	8.100	26.574	24.070	24.187	0.436	18.800	1.803	2477.500
201	163	8.150	26.739	18.320	18.314	0.317	-0.910	1.731	3309.200
202	164	8.200	26.903	12.390	12.406	0.277	2.540	2.233	4225.400
203	165	8.250	27.067	15.730	15.764	0.312	5.500	1.979	5027.200
204	166	8.300	27.231	15.110	15.175	0.416	10.490	2.741	5850.300
205	167	8.350	27.395	26.110	26.222	0.740	18.020	2.822	6512.000
206	168	8.400	27.559	33.830	33.948	1.133	18.860	3.337	6452.400
207	169	8.450	27.723	50.700	50.798	1.565	15.660	3.081	5327.600
208	170	8.500	27.887	39.650	39.767	1.683	18.730	4.232	3937.000
209	171	8.550	28.051	42.720	42.857	1.335	21.970	3.115	2956.100
210	172	8.600	28.215	46.290	46.305	1.371	2.340	2.961	2142.000
211	173	8.650	28.379	10.400	10.418	1.125	2.940	10.798	1533.300
212	174	8.700	28.543	34.860	34.945	1.054	13.540	3.016	1168.600
213	175	8.750	28.707	45.700	45.718	1.225	2.860	2.679	869.200
214	176	8.800	28.871	50.340	50.376	2.027	5.720	4.024	621.000
215	177	8.850	29.035	77.090	77.188	2.766	15.700	3.583	476.900
216	178	8.900	29.199	136.330	136.577	2.889	39.610	2.115	397.100
217	179	8.950	29.363	153.290	153.564	2.629	43.840	1.712	294.400
218	180	9.000	29.527	109.470	109.520	2.244	7.950	2.049	224.700
219	181	9.050	29.691	46.480	46.445	2.155	-5.640	4.640	166.800
220	182	9.100	29.855	19.300	19.302	1.673	0.380	8.667	122.000
221	183	9.150	30.019	79.430	79.481	1.693	8.170	2.130	107.400
222	184	9.200	30.183	94.240	94.304	2.323	10.200	2.463	80.300
223	185	9.250	30.347	76.760	76.793	2.432	5.240	3.167	67.000
224	186	9.300	30.511	43.460	43.468	1.812	1.340	4.169	56.800
225	187	9.350	30.675	26.680	26.704	1.155	3.840	4.325	42.200
226	188	9.400	30.840	29.730	29.757	0.751	4.250	2.524	44.300
227	189	9.450	31.004	32.650	32.657	0.663	1.200	2.030	45.900
228	190	9.500	31.168	38.600	38.609	0.817	1.410	2.116	39.800
229	191	9.550	31.332	28.200	28.198	0.775	-0.380	2.748	39.400
230	192	9.600	31.496	26.950	27.001	0.593	8.240	2.196	28.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	37.640	37.644	0.570	0.570	1.514	32.500
232	194	9.700	31.824	45.910	45.932	0.414	3.520	0.901	39.600
233	195	9.750	31.988	42.810	42.827	0.417	2.750	0.974	40.400
234	196	9.800	32.152	40.360	40.364	0.271	0.590	0.671	36.600
235	197	9.850	32.316	34.410	34.400	0.272	-1.680	0.791	31.800
236	198	9.900	32.480	21.950	21.954	0.512	0.720	2.332	38.500
237	199	9.950	32.644	16.490	16.531	0.605	6.530	3.660	24.900
238	200	10.000	32.808	32.360	32.409	0.816	7.900	2.518	15.000
239	201	10.050	32.972	52.380	52.403	1.286	3.710	2.454	10.900
240	202	10.100	33.136	93.610	93.611	1.968	0.100	2.102	13.900
241	203	10.150	33.300	100.690	100.749	2.668	9.430	2.648	6.500
242	204	10.200	33.464	73.900	73.960	2.852	9.580	3.856	9.500
243	205	10.250	33.628	43.270	43.394	2.274	19.910	5.240	12.300
244	206	10.300	33.792	28.990	29.038	1.676	7.730	5.772	10.000
245	207	10.350	33.956	24.390	24.591	1.243	32.200	5.055	15.300
246	208	10.400	34.120	18.770	18.825	1.050	8.840	5.578	14.900
247	209	10.450	34.284	21.360	21.437	1.327	12.360	6.190	21.200
248	210	10.500	34.448	61.100	61.145	1.748	7.250	2.859	25.200
249	211	10.550	34.612	25.290	25.455	1.611	26.400	6.329	27.900
250	212	10.600	34.776	36.380	36.626	0.778	39.480	2.124	31.200
251	213	10.650	34.941	55.840	55.867	0.831	4.290	1.487	36.400
252	214	10.700	35.105	64.720	64.722	1.190	0.390	1.839	41.400
253	215	10.750	35.269	43.220	43.208	1.125	-1.950	2.604	35.100
254	216	10.800	35.433	45.570	45.630	1.055	9.620	2.312	44.200
255	217	10.850	35.597	60.560	60.672	1.405	17.920	2.316	49.200
256	218	10.900	35.761	47.760	47.739	1.602	-3.340	3.356	46.100
257	219	10.950	35.925	31.190	31.207	1.434	2.730	4.595	45.500
258	220	11.000	36.089	37.520	37.644	1.335	19.910	3.546	62.400
259	221	11.050	36.253	32.700	33.112	0.954	65.980	2.881	40.300
260	222	11.100	36.417	29.280	29.431	1.147	24.230	3.897	54.300
261	223	11.150	36.581	26.460	26.389	1.390	-11.440	5.267	53.700
262	224	11.200	36.745	21.260	21.216	1.110	-6.990	5.232	51.100
263	225	11.250	36.909	35.920	35.936	0.751	2.520	2.090	31.500
264	226	11.300	37.073	22.860	22.861	1.221	0.120	5.341	25.400
265	227	11.350	37.237	43.980	44.003	1.388	3.610	3.154	20.800
266	228	11.400	37.401	20.350	20.348	1.345	-0.350	6.610	18.800
267	229	11.450	37.565	20.770	20.825	1.098	8.800	5.273	30.600
268	230	11.500	37.729	25.670	25.861	0.900	30.670	3.480	33.900
269	231	11.550	37.893	68.240	68.283	0.603	6.910	0.883	32.100
270	232	11.600	38.057	78.850	78.963	0.646	18.140	0.818	42.400
271	233	11.650	38.221	63.170	63.246	0.939	12.230	1.485	31.900
272	234	11.700	38.385	60.120	60.185	1.991	10.450	3.308	24.800
273	235	11.750	38.549	71.610	71.703	2.099	14.920	2.927	20.800
274	236	11.800	38.713	28.670	28.816	2.365	23.350	8.207	17.900
275	237	11.850	38.877	54.550	54.560	2.220	1.600	4.069	16.200
276	238	11.900	39.042	60.800	61.170	2.861	59.310	4.677	20.400
277	239	11.950	39.206	55.970	56.166	2.465	31.380	4.389	22.700
278	240	12.000	39.370	63.340	63.564	1.711	35.880	2.692	25.000
279	241	12.050	39.534	48.580	48.772	1.384	30.790	2.838	25.700
280	242	12.100	39.698	46.840	46.962	0.941	19.570	2.004	23.400
281	243	12.150	39.862	41.850	41.910	0.988	9.640	2.357	18.100
282	244	12.200	40.026	45.280	45.330	1.424	7.970	3.141	12.200
283	245	12.250	40.190	65.190	65.259	1.061	11.010	1.626	17.500
284	246	12.300	40.354	52.040	52.069	1.220	4.660	2.343	16.200
285	247	12.350	40.518	74.680	74.707	1.087	4.270	1.455	16.000
286	248	12.400	40.682	32.830	32.879	0.824	7.780	2.506	11.900
287	249	12.450	40.846	30.510	30.514	0.721	0.690	2.363	21.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	26.820	26.854	0.464	5.370	1.728	24.600
289	251	12.550	41.174	24.810	24.866	0.779	9.000	3.133	22.000
290	252	12.600	41.338	46.080	46.158	0.919	12.480	1.991	27.500
291	253	12.650	41.502	115.390	115.451	1.017	9.800	0.881	29.800
292	254	12.700	41.666	99.820	99.879	1.591	9.480	1.593	30.800
293	255	12.750	41.830	49.660	49.708	1.435	7.720	2.887	24.900
294	256	12.800	41.994	32.030	32.095	1.526	10.450	4.755	28.200
295	257	12.850	42.158	96.940	97.019	1.327	12.660	1.368	37.500
296	258	12.900	42.322	92.950	92.988	1.604	6.120	1.725	42.800
297	259	12.950	42.486	137.070	137.119	1.515	7.800	1.105	47.800
298	260	13.000	42.650	155.030	155.053	1.377	3.680	0.888	50.700
299	261	13.050	42.814	125.440	125.481	1.277	6.640	1.018	50.700
300	262	13.100	42.978	85.660	85.690	0.950	4.780	1.109	61.400
301	263	13.150	43.143	79.640	79.665	0.608	4.050	0.763	57.500
302	264	13.200	43.307	93.460	93.494	0.602	5.420	0.644	47.100
303	265	13.250	43.471	116.750	116.794	0.706	6.970	0.604	58.800
304	266	13.300	43.635	148.430	148.489	0.791	9.440	0.533	57.000
305	267	13.350	43.799	174.850	174.916	0.871	10.520	0.498	0.000
306	268	13.400	43.963	197.430	197.503	1.183	11.730	0.599	0.000
307	269	13.450	44.127	224.200	224.277	1.296	12.350	0.578	0.000
308	270	13.500	44.291	229.730	229.802	1.366	11.490	0.594	0.000
309	271	13.550	44.455	234.870	235.310	1.464	70.500	0.622	0.000
310	272	13.600	44.619	243.030	243.163	1.402	21.340	0.577	0.000
311	273	13.650	44.783	233.660	233.793	1.057	21.290	0.452	0.000
312	274	13.700	44.947	235.150	235.243	1.319	14.910	0.561	0.000
313	275	13.750	45.111	254.080	254.177	1.031	15.610	0.406	0.000
314	276	13.800	45.275	248.820	248.885	1.178	10.410	0.473	0.000
315	277	13.850	45.439	259.670	259.764	1.272	15.040	0.490	0.000
316	278	13.900	45.603	277.190	277.295	1.141	16.860	0.411	0.000
317	279	13.950	45.767	305.760	305.884	1.094	19.920	0.358	0.000
318	280	14.000	45.931	317.800	317.915	0.000	18.380	0.000	0.000
319	281	14.050	46.095	307.360	307.465	0.000	16.800	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272382				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-04				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-16-2015				
14		CPT Time:			16:56				
15		CPT File:			15-53039_GP1D-04.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722089.335				
31		Northing / Lat:			4294229.603				
32		Elevation:			151.220				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	1.750	1.748	0.013	-0.280	0.744	26.700
40	2	0.100	0.328	15.240	15.221	0.089	-3.070	0.585	29.600
41	3	0.150	0.492	58.640	58.643	0.219	0.450	0.373	27.300
42	4	0.200	0.656	84.110	84.166	0.258	9.020	0.307	31.600
43	5	0.250	0.820	105.110	105.153	0.126	6.940	0.120	33.200
44	6	0.300	0.984	94.180	94.259	0.150	12.630	0.159	31.800
45	7	0.350	1.148	71.710	71.792	0.131	13.210	0.182	30.300
46	8	0.400	1.312	57.400	57.417	0.181	2.680	0.315	47.900
47	9	0.450	1.476	37.120	37.163	0.273	6.820	0.735	57.100
48	10	0.500	1.640	17.120	17.149	0.331	4.600	1.930	64.000
49	11	0.550	1.804	10.210	10.207	0.369	-0.420	3.615	69.800
50	12	0.600	1.968	13.340	13.381	0.351	6.570	2.623	87.800
51	13	0.650	2.133	24.930	24.983	0.390	8.480	1.561	92.600
52	14	0.700	2.297	36.590	36.555	0.401	-5.680	1.097	91.100
53	15	0.750	2.461	38.890	38.835	0.599	-8.800	1.542	84.600
54	16	0.800	2.625	33.920	33.883	0.589	-5.890	1.738	87.000
55	17	0.850	2.789	28.890	28.847	0.621	-6.920	2.153	92.000
56	18	0.900	2.953	21.070	21.014	0.518	-8.990	2.465	101.700
57	19	0.950	3.117	16.340	16.283	0.462	-9.100	2.837	95.800
58	20	1.000	3.281	15.070	15.023	0.393	-7.580	2.616	105.400
59	21	1.050	3.445	16.180	16.144	0.397	-5.710	2.459	104.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	16.700	16.666	0.487	-5.470	2.922	97.100
61	23	1.150	3.773	19.230	19.182	0.491	-7.720	2.560	96.500
62	24	1.200	3.937	17.260	17.210	0.662	-8.010	3.847	102.000
63	25	1.250	4.101	21.930	21.874	0.776	-9.050	3.548	88.500
64	26	1.300	4.265	25.710	25.655	0.808	-8.810	3.149	90.900
65	27	1.350	4.429	29.820	29.766	0.836	-8.680	2.809	88.300
66	28	1.400	4.593	22.320	22.248	0.642	-11.480	2.886	84.000
67	29	1.450	4.757	28.840	28.760	0.438	-12.780	1.523	58.900
68	30	1.500	4.921	96.590	96.557	0.689	-5.340	0.714	54.100
69	31	1.550	5.085	135.620	135.630	1.437	1.650	1.059	47.100
70	32	1.600	5.249	92.010	92.020	2.209	1.550	2.401	49.000
71	33	1.650	5.413	119.860	119.864	2.716	0.720	2.266	28.500
72	34	1.700	5.577	155.810	155.987	2.563	28.430	1.643	27.500
73	35	1.750	5.741	57.940	57.970	1.923	4.830	3.317	23.000
74	36	1.800	5.905	31.650	31.648	1.027	-0.290	3.245	32.400
75	37	1.850	6.069	35.340	35.339	0.540	-0.090	1.528	28.200
76	38	1.900	6.234	24.110	24.112	1.066	0.280	4.421	30.300
77	39	1.950	6.398	44.170	44.162	1.160	-1.210	2.627	33.600
78	40	2.000	6.562	13.050	13.217	1.111	26.710	8.406	37.400
79	41	2.050	6.726	16.560	16.684	0.617	19.900	3.698	46.100
80	42	2.100	6.890	19.140	19.339	0.649	31.800	3.356	56.600
81	43	2.150	7.054	32.150	32.154	0.678	0.680	2.109	59.400
82	44	2.200	7.218	18.150	18.139	0.641	-1.750	3.534	60.600
83	45	2.250	7.382	15.090	15.256	0.680	26.600	4.457	54.800
84	46	2.300	7.546	17.310	17.357	0.368	7.450	2.120	47.500
85	47	2.350	7.710	58.980	58.987	0.416	1.120	0.705	31.600
86	48	2.400	7.874	53.650	53.663	0.469	2.110	0.874	30.700
87	49	2.450	8.038	73.730	73.754	0.827	3.800	1.121	24.400
88	50	2.500	8.202	70.940	71.011	1.212	11.350	1.707	21.200
89	51	2.550	8.366	55.270	55.272	1.374	0.360	2.486	14.400
90	52	2.600	8.530	55.930	55.939	1.145	1.380	2.047	19.000
91	53	2.650	8.694	42.470	42.481	1.014	1.770	2.387	12.300
92	54	2.700	8.858	16.500	16.515	0.500	2.450	3.027	13.000
93	55	2.750	9.022	10.430	10.430	0.679	0.060	6.510	12.000
94	56	2.800	9.186	45.790	45.798	0.384	1.240	0.838	17.900
95	57	2.850	9.350	38.550	38.549	0.536	-0.230	1.390	14.600
96	58	2.900	9.514	70.500	70.539	0.792	6.280	1.123	15.900
97	59	2.950	9.678	68.030	68.033	1.154	0.440	1.696	11.500
98	60	3.000	9.842	46.460	46.486	0.606	4.110	1.304	17.400
99	61	3.050	10.006	29.810	29.833	0.567	3.730	1.901	17.900
100	62	3.100	10.170	33.930	33.943	0.350	2.010	1.031	11.900
101	63	3.150	10.335	24.400	24.402	0.327	0.380	1.340	24.000
102	64	3.200	10.499	36.320	36.329	0.245	1.480	0.674	18.900
103	65	3.250	10.663	55.120	55.133	0.731	2.050	1.326	26.000
104	66	3.300	10.827	80.120	80.140	0.869	3.140	1.084	26.200
105	67	3.350	10.991	49.030	49.026	1.189	-0.720	2.425	32.300
106	68	3.400	11.155	79.810	79.811	1.183	0.140	1.482	39.500
107	69	3.450	11.319	34.370	34.564	1.133	31.050	3.278	62.100
108	70	3.500	11.483	35.180	35.168	1.039	-1.930	2.954	64.000
109	71	3.550	11.647	29.790	29.731	0.871	-9.460	2.930	74.700
110	72	3.600	11.811	29.400	29.362	0.885	-6.140	3.014	91.500
111	73	3.650	11.975	26.190	26.151	0.809	-6.210	3.094	83.800
112	74	3.700	12.139	36.990	36.979	0.897	-1.810	2.426	85.300
113	75	3.750	12.303	38.600	38.578	0.935	-3.580	2.424	100.200
114	76	3.800	12.467	55.190	55.164	1.030	-4.090	1.867	89.800
115	77	3.850	12.631	59.100	59.071	1.266	-4.620	2.143	85.400
116	78	3.900	12.795	54.940	54.903	1.123	-5.860	2.045	90.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	52.190	52.148	0.940	-6.770	1.803	83.600
118	80	4.000	13.123	45.540	45.494	0.943	-7.320	2.073	79.400
119	81	4.050	13.287	36.710	36.694	0.806	-2.570	2.197	70.100
120	82	4.100	13.451	34.800	34.801	1.024	0.200	2.942	54.900
121	83	4.150	13.615	33.020	33.025	0.871	0.860	2.637	43.100
122	84	4.200	13.779	19.750	19.745	0.707	-0.790	3.581	51.800
123	85	4.250	13.943	22.180	22.187	0.700	1.110	3.155	46.100
124	86	4.300	14.107	27.740	27.748	0.798	1.290	2.876	65.300
125	87	4.350	14.271	37.090	37.107	0.811	2.760	2.186	67.400
126	88	4.400	14.436	44.820	44.818	0.830	-0.350	1.852	74.400
127	89	4.450	14.600	53.310	53.311	0.692	0.190	1.298	75.800
128	90	4.500	14.764	51.440	51.431	0.780	-1.480	1.517	70.100
129	91	4.550	14.928	46.420	46.443	0.981	3.680	2.112	79.500
130	92	4.600	15.092	53.370	53.336	0.958	-5.410	1.796	69.900
131	93	4.650	15.256	59.630	59.597	1.247	-5.310	2.092	67.000
132	94	4.700	15.420	66.840	66.815	1.228	-4.080	1.838	60.700
133	95	4.750	15.584	50.540	50.521	1.609	-3.040	3.185	74.000
134	96	4.800	15.748	55.500	55.487	1.348	-2.160	2.429	66.700
135	97	4.850	15.912	52.770	52.742	1.843	-4.450	3.494	74.600
136	98	4.900	16.076	79.250	79.196	1.685	-8.690	2.128	77.000
137	99	4.950	16.240	42.300	42.240	1.389	-9.540	3.288	62.600
138	100	5.000	16.404	50.110	50.058	1.276	-8.340	2.549	56.700
139	101	5.050	16.568	45.550	45.487	0.974	-10.170	2.141	58.700
140	102	5.100	16.732	45.720	45.715	0.962	-0.800	2.104	50.500
141	103	5.150	16.896	26.690	26.680	1.027	-1.600	3.849	30.400
142	104	5.200	17.060	36.040	36.029	1.086	-1.700	3.014	26.300
143	105	5.250	17.224	32.570	32.572	0.989	0.280	3.036	22.400
144	106	5.300	17.388	38.760	38.764	0.983	0.640	2.536	24.500
145	107	5.350	17.552	33.120	33.126	1.158	0.990	3.496	23.200
146	108	5.400	17.716	27.040	27.048	1.154	1.230	4.267	19.900
147	109	5.450	17.880	22.140	22.165	0.782	3.930	3.528	17.100
148	110	5.500	18.044	27.350	27.377	0.424	4.370	1.549	19.600
149	111	5.550	18.208	57.120	57.112	0.142	-1.350	0.249	16.100
150	112	5.600	18.372	64.200	64.198	0.062	-0.300	0.097	23.900
151	113	5.650	18.537	57.960	57.959	0.096	-0.180	0.166	28.300
152	114	5.700	18.701	34.690	34.693	0.088	0.500	0.254	30.200
153	115	5.750	18.865	26.590	26.594	0.154	0.720	0.579	36.500
154	116	5.800	19.029	35.030	35.034	0.208	0.630	0.594	50.100
155	117	5.850	19.193	38.520	38.523	0.121	0.460	0.314	63.700
156	118	5.900	19.357	40.110	40.115	0.139	0.840	0.347	73.600
157	119	5.950	19.521	44.720	44.721	0.120	0.230	0.268	80.400
158	120	6.000	19.685	51.010	51.010	0.032	-0.080	0.063	65.300
159	121	6.050	19.849	47.090	47.093	0.464	0.500	0.985	73.000
160	122	6.100	20.013	44.850	44.852	0.564	0.390	1.257	65.000
161	123	6.150	20.177	75.950	75.954	0.455	0.610	0.599	65.800
162	124	6.200	20.341	67.650	67.653	0.807	0.410	1.193	65.000
163	125	6.250	20.505	35.290	35.295	0.822	0.780	2.329	63.800
164	126	6.300	20.669	17.920	17.978	0.599	9.250	3.332	61.400
165	127	6.350	20.833	14.320	14.325	0.457	0.810	3.190	53.100
166	128	6.400	20.997	32.430	32.425	0.347	-0.730	1.070	60.500
167	129	6.450	21.161	43.020	43.024	0.351	0.700	0.816	54.400
168	130	6.500	21.325	40.740	40.759	0.260	3.120	0.638	52.100
169	131	6.550	21.489	23.200	23.198	0.241	-0.250	1.039	75.800
170	132	6.600	21.653	21.540	21.543	0.261	0.530	1.212	77.100
171	133	6.650	21.817	19.830	19.838	0.188	1.340	0.948	63.100
172	134	6.700	21.981	18.760	18.768	0.170	1.250	0.906	70.100
173	135	6.750	22.145	19.620	19.628	0.119	1.230	0.606	54.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	41.500	41.488	0.286	-1.910	0.689	44.000
175	137	6.850	22.473	91.350	91.350	1.111	0.080	1.216	42.400
176	138	6.900	22.638	49.950	49.964	1.501	2.310	3.004	29.800
177	139	6.950	22.802	39.840	39.859	1.768	3.100	4.436	33.000
178	140	7.000	22.966	36.130	36.131	1.074	0.150	2.973	25.400
179	141	7.050	23.130	16.030	16.077	1.235	7.530	7.682	23.300
180	142	7.100	23.294	80.920	80.946	2.399	4.210	2.964	23.600
181	143	7.150	23.458	117.850	119.145	2.944	207.440	2.471	25.700
182	144	7.200	23.622	74.880	74.884	2.623	0.710	3.503	30.200
183	145	7.250	23.786	83.930	83.976	2.422	7.340	2.884	33.500
184	146	7.300	23.950	150.000	150.010	2.888	1.640	1.925	33.700
185	147	7.350	24.114	148.780	149.379	2.468	95.880	1.652	50.400
186	148	7.400	24.278	19.320	19.480	1.586	25.640	8.142	50.700
187	149	7.450	24.442	23.130	23.225	1.178	15.240	5.072	53.000
188	150	7.500	24.606	20.890	20.946	0.676	9.000	3.227	60.100
189	151	7.550	24.770	82.970	83.000	1.666	4.780	2.007	55.200
190	152	7.600	24.934	80.100	80.114	2.611	2.240	3.259	47.400
191	153	7.650	25.098	35.880	35.900	2.752	3.220	7.666	37.100
192	154	7.700	25.262	37.870	37.919	1.686	7.880	4.446	34.600
193	155	7.750	25.426	64.500	64.529	1.364	4.620	2.114	35.700
194	156	7.800	25.590	42.650	42.667	1.578	2.670	3.698	32.400
195	157	7.850	25.754	49.140	49.167	1.538	4.380	3.128	27.200
196	158	7.900	25.918	53.090	53.124	1.558	5.460	2.933	22.900
197	159	7.950	26.082	34.680	34.690	1.330	1.670	3.834	26.000
198	160	8.000	26.246	33.290	33.362	1.327	11.510	3.978	28.700
199	161	8.050	26.410	37.500	37.530	1.502	4.740	4.002	30.200
200	162	8.100	26.574	42.960	42.999	1.677	6.230	3.900	36.100
201	163	8.150	26.739	43.030	43.059	1.399	4.660	3.249	35.100
202	164	8.200	26.903	46.660	46.852	1.172	30.700	2.502	36.400
203	165	8.250	27.067	30.670	30.708	1.119	6.110	3.644	50.900
204	166	8.300	27.231	34.000	34.067	1.005	10.680	2.950	53.500
205	167	8.350	27.395	56.490	56.508	0.818	2.840	1.448	61.900
206	168	8.400	27.559	55.020	55.026	1.008	0.980	1.832	52.300
207	169	8.450	27.723	62.300	62.296	1.139	-0.660	1.828	50.900
208	170	8.500	27.887	54.400	54.446	0.676	7.390	1.242	30.500
209	171	8.550	28.051	90.640	90.680	1.938	6.340	2.137	19.900
210	172	8.600	28.215	177.820	177.847	2.259	4.290	1.270	19.700
211	173	8.650	28.379	55.070	55.216	2.063	23.340	3.736	16.900
212	174	8.700	28.543	85.170	85.226	1.032	8.970	1.211	14.700
213	175	8.750	28.707	127.200	127.270	0.798	11.180	0.627	10.400
214	176	8.800	28.871	52.660	52.633	1.057	-4.250	2.008	17.800
215	177	8.850	29.035	19.660	19.662	1.315	0.290	6.688	21.600
216	178	8.900	29.199	24.160	24.175	1.233	2.380	5.100	34.400
217	179	8.950	29.363	29.490	29.510	1.196	3.240	4.053	35.600
218	180	9.000	29.527	30.230	30.243	1.119	2.090	3.700	56.800
219	181	9.050	29.691	41.860	41.885	0.965	4.050	2.304	72.800
220	182	9.100	29.855	60.380	60.407	0.864	4.250	1.430	84.300
221	183	9.150	30.019	53.360	53.376	0.823	2.600	1.542	82.800
222	184	9.200	30.183	44.740	44.754	0.860	2.260	1.922	85.300
223	185	9.250	30.347	38.020	38.034	0.937	2.320	2.464	90.400
224	186	9.300	30.511	34.020	34.037	0.959	2.740	2.818	80.900
225	187	9.350	30.675	30.380	30.396	0.923	2.500	3.037	89.200
226	188	9.400	30.840	24.130	24.150	0.874	3.220	3.619	85.600
227	189	9.450	31.004	20.980	21.003	0.792	3.730	3.771	87.800
228	190	9.500	31.168	19.060	19.088	0.712	4.460	3.730	79.500
229	191	9.550	31.332	17.950	17.985	0.633	5.550	3.520	88.200
230	192	9.600	31.496	39.050	39.087	0.513	5.910	1.312	78.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	20.190	20.208	0.682	2.900	3.375	66.100
232	194	9.700	31.824	30.040	30.049	0.671	1.520	2.233	56.200
233	195	9.750	31.988	16.400	16.405	0.770	0.820	4.694	60.700
234	196	9.800	32.152	12.300	12.299	0.626	-0.090	5.090	67.500
235	197	9.850	32.316	14.760	14.765	0.563	0.730	3.813	70.500
236	198	9.900	32.480	10.250	10.261	0.470	1.710	4.581	81.100
237	199	9.950	32.644	14.210	14.230	0.581	3.240	4.083	100.600
238	200	10.000	32.808	43.880	43.894	0.710	2.270	1.618	80.900
239	201	10.050	32.972	40.520	40.532	0.913	1.950	2.253	89.200
240	202	10.100	33.136	26.960	26.963	0.951	0.480	3.527	84.800
241	203	10.150	33.300	20.960	20.957	1.037	-0.530	4.948	86.500
242	204	10.200	33.464	34.270	34.270	0.996	-0.050	2.906	74.700
243	205	10.250	33.628	24.570	24.561	0.842	-1.510	3.428	62.200
244	206	10.300	33.792	21.340	21.327	0.656	-2.060	3.076	52.800
245	207	10.350	33.956	29.980	29.979	0.868	-0.090	2.895	58.000
246	208	10.400	34.120	35.900	35.908	0.848	1.310	2.362	60.000
247	209	10.450	34.284	40.350	40.356	0.738	1.040	1.829	48.200
248	210	10.500	34.448	12.970	12.974	0.932	0.590	7.184	43.800
249	211	10.550	34.612	21.610	21.612	0.784	0.330	3.628	39.700
250	212	10.600	34.776	43.250	43.251	1.524	0.190	3.524	38.200
251	213	10.650	34.941	83.360	83.376	1.938	2.530	2.324	22.100
252	214	10.700	35.105	53.650	53.653	1.937	0.550	3.610	33.400
253	215	10.750	35.269	33.590	33.576	1.706	-2.180	5.081	34.200
254	216	10.800	35.433	44.980	44.983	1.456	0.440	3.237	47.800
255	217	10.850	35.597	45.720	45.748	1.289	4.540	2.818	43.100
256	218	10.900	35.761	64.040	64.139	1.218	15.820	1.899	50.400
257	219	10.950	35.925	89.550	89.578	0.844	4.470	0.942	55.100
258	220	11.000	36.089	30.820	30.830	0.555	1.660	1.800	64.000
259	221	11.050	36.253	37.660	37.674	0.455	2.250	1.208	64.700
260	222	11.100	36.417	36.510	36.529	0.368	2.990	1.007	79.100
261	223	11.150	36.581	37.510	37.527	0.509	2.730	1.356	78.800
262	224	11.200	36.745	52.770	52.794	1.498	3.900	2.837	56.200
263	225	11.250	36.909	157.590	157.625	2.026	5.560	1.285	39.500
264	226	11.300	37.073	103.280	103.303	2.398	3.730	2.321	41.600
265	227	11.350	37.237	80.150	80.160	2.886	1.580	3.600	29.800
266	228	11.400	37.401	72.340	72.339	2.304	-0.180	3.185	19.000
267	229	11.450	37.565	88.100	88.104	1.955	0.710	2.219	28.300
268	230	11.500	37.729	88.000	87.994	1.188	-0.980	1.350	24.600
269	231	11.550	37.893	84.940	84.932	1.095	-1.210	1.289	21.300
270	232	11.600	38.057	82.550	82.547	0.836	-0.490	1.013	28.500
271	233	11.650	38.221	33.960	33.961	1.076	0.200	3.168	16.400
272	234	11.700	38.385	51.890	51.896	0.930	0.980	1.792	19.800
273	235	11.750	38.549	87.610	87.605	0.764	-0.880	0.872	22.200
274	236	11.800	38.713	107.050	107.050	1.743	-0.050	1.628	31.700
275	237	11.850	38.877	99.320	99.346	2.175	4.230	2.189	21.700
276	238	11.900	39.042	71.880	71.942	1.748	9.950	2.430	19.000
277	239	11.950	39.206	39.560	39.589	1.295	4.590	3.271	28.400
278	240	12.000	39.370	63.800	63.805	1.101	0.860	1.726	21.000
279	241	12.050	39.534	46.070	46.097	1.264	4.260	2.742	20.800
280	242	12.100	39.698	49.740	49.760	1.084	3.140	2.178	21.600
281	243	12.150	39.862	38.350	38.361	1.244	1.790	3.243	24.700
282	244	12.200	40.026	76.620	76.625	1.585	0.790	2.069	25.700
283	245	12.250	40.190	106.580	106.576	1.366	-0.590	1.282	28.400
284	246	12.300	40.354	120.340	120.349	1.186	1.470	0.985	25.900
285	247	12.350	40.518	93.590	93.591	1.341	0.140	1.433	33.000
286	248	12.400	40.682	39.060	39.060	1.084	-0.070	2.775	38.900
287	249	12.450	40.846	54.270	54.275	0.958	0.760	1.765	46.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	38.390	38.409	0.691	3.070	1.799	53.400
289	251	12.550	41.174	37.410	37.440	0.580	4.840	1.549	59.800
290	252	12.600	41.338	49.550	49.578	0.813	4.430	1.640	57.700
291	253	12.650	41.502	60.490	60.477	0.647	-2.010	1.070	61.900
292	254	12.700	41.666	67.520	67.522	1.282	0.340	1.899	48.900
293	255	12.750	41.830	79.600	79.648	1.244	7.760	1.562	51.300
294	256	12.800	41.994	45.420	45.421	1.266	0.110	2.787	47.000
295	257	12.850	42.158	42.520	42.503	0.912	-2.800	2.146	39.700
296	258	12.900	42.322	15.700	15.725	0.762	3.930	4.846	52.000
297	259	12.950	42.486	106.920	107.037	0.842	18.700	0.787	44.100
298	260	13.000	42.650	330.010	330.014	0.948	0.680	0.287	36.300
299	261	13.050	42.814	390.230	390.243	1.004	2.070	0.257	31.300
300	262	13.100	42.978	375.630	375.651	2.560	3.370	0.681	37.600
301	263	13.150	43.143	345.300	345.368	5.284	10.830	1.530	42.100
302	264	13.200	43.307	313.990	314.056	2.551	10.650	0.812	35.000
303	265	13.250	43.471	254.910	254.962	2.388	8.250	0.937	36.500
304	266	13.300	43.635	226.520	226.539	1.803	3.070	0.796	36.800
305	267	13.350	43.799	185.510	185.524	1.748	2.250	0.942	39.700
306	268	13.400	43.963	137.460	137.459	1.712	-0.120	1.245	35.500
307	269	13.450	44.127	119.440	119.472	2.462	5.120	2.061	38.100
308	270	13.500	44.291	74.520	74.552	1.759	5.070	2.359	33.900
309	271	13.550	44.455	86.600	86.697	2.894	15.490	3.338	31.600
310	272	13.600	44.619	102.160	102.165	2.885	0.750	2.824	35.600
311	273	13.650	44.783	38.660	38.673	2.825	2.160	7.305	26.100
312	274	13.700	44.947	39.140	39.134	1.568	-0.940	4.007	37.600
313	275	13.750	45.111	38.900	38.916	1.129	2.500	2.901	22.600
314	276	13.800	45.275	39.190	39.176	0.859	-2.190	2.193	32.000
315	277	13.850	45.439	14.580	14.562	0.935	-2.900	6.421	32.300
316	278	13.900	45.603	59.910	59.917	0.714	1.090	1.192	38.200
317	279	13.950	45.767	86.390	86.426	0.821	5.720	0.950	50.900
318	280	14.000	45.931	127.460	127.471	0.707	1.720	0.555	42.300
319	281	14.050	46.095	166.900	166.917	0.648	2.770	0.388	38.200
320	282	14.100	46.259	170.730	170.745	0.606	2.400	0.355	47.500
321	283	14.150	46.423	131.180	131.191	1.032	1.730	0.787	40.000
322	284	14.200	46.587	122.130	122.140	1.602	1.550	1.312	50.600
323	285	14.250	46.751	116.740	116.762	1.446	3.540	1.238	50.900
324	286	14.300	46.915	106.520	106.539	1.543	3.000	1.448	43.500
325	287	14.350	47.079	89.260	89.271	1.835	1.710	2.056	57.800
326	288	14.400	47.244	68.980	68.990	1.345	1.540	1.950	60.800
327	289	14.450	47.408	49.520	49.539	1.415	3.050	2.856	64.000
328	290	14.500	47.572	39.250	39.272	1.225	3.460	3.119	64.700
329	291	14.550	47.736	46.020	46.046	1.504	4.100	3.266	64.400
330	292	14.600	47.900	72.130	72.167	1.915	5.980	2.654	45.000
331	293	14.650	48.064	81.260	81.340	2.151	12.770	2.644	51.700
332	294	14.700	48.228	132.400	132.473	1.786	11.770	1.348	45.300
333	295	14.750	48.392	175.650	175.686	1.305	5.820	0.743	43.400
334	296	14.800	48.556	155.090	155.103	1.276	2.010	0.823	42.300
335	297	14.850	48.720	126.950	126.956	2.170	0.910	1.709	38.300
336	298	14.900	48.884	107.000	107.037	2.667	5.900	2.492	29.000
337	299	14.950	49.048	68.030	68.075	2.506	7.280	3.681	32.500
338	300	15.000	49.212	64.560	64.633	2.312	11.720	3.577	40.400
339	301	15.050	49.376	55.670	55.707	1.570	5.980	2.818	36.700
340	302	15.100	49.540	35.020	35.080	1.390	9.680	3.962	35.500
341	303	15.150	49.704	38.290	38.375	1.405	13.540	3.661	46.500
342	304	15.200	49.868	25.540	25.599	1.361	9.490	5.317	37.000
343	305	15.250	50.032	39.460	39.559	1.506	15.880	3.807	42.400
344	306	15.300	50.196	51.290	51.446	1.481	25.010	2.879	35.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	68.590	68.676	1.685	13.740	2.454	27.000
346	308	15.400	50.524	61.600	61.639	1.505	6.310	2.442	41.600
347	309	15.450	50.688	38.330	38.427	1.305	15.540	3.396	44.600
348	310	15.500	50.852	45.310	45.419	1.234	17.520	2.717	43.800
349	311	15.550	51.016	35.370	35.432	1.088	9.980	3.071	35.900
350	312	15.600	51.180	36.280	36.314	1.039	5.370	2.861	26.700
351	313	15.650	51.345	54.640	54.660	1.300	3.210	2.378	26.900
352	314	15.700	51.509	56.020	56.043	1.516	3.680	2.705	24.500
353	315	15.750	51.673	69.190	69.216	1.335	4.170	1.929	31.000
354	316	15.800	51.837	31.180	31.265	1.548	13.620	4.951	27.800
355	317	15.850	52.001	35.390	35.449	1.157	9.480	3.264	27.500
356	318	15.900	52.165	34.050	34.083	1.241	5.220	3.641	35.400
357	319	15.950	52.329	36.470	36.487	1.127	2.670	3.089	33.200
358	320	16.000	52.493	39.270	39.302	1.138	5.140	2.896	37.600
359	321	16.050	52.657	83.310	83.365	1.601	8.750	1.920	38.000
360	322	16.100	52.821	64.580	64.565	1.899	-2.390	2.941	29.900
361	323	16.150	52.985	38.200	38.167	1.643	-5.210	4.305	27.800
362	324	16.200	53.149	22.750	22.770	1.465	3.240	6.434	30.100
363	325	16.250	53.313	29.670	29.721	1.374	8.180	4.623	18.900
364	326	16.300	53.477	54.440	54.471	1.430	4.900	2.625	17.800
365	327	16.350	53.641	54.260	54.272	1.540	1.980	2.838	20.400
366	328	16.400	53.805	48.460	48.447	1.242	-2.020	2.564	18.800
367	329	16.450	53.969	28.760	28.785	0.922	4.000	3.203	19.100
368	330	16.500	54.133	13.650	13.666	0.711	2.610	5.203	22.500
369	331	16.550	54.297	10.160	10.254	0.469	15.090	4.574	20.900
370	332	16.600	54.461	14.030	14.244	0.607	34.290	4.261	23.200
371	333	16.650	54.625	26.240	26.530	0.885	46.530	3.336	35.000
372	334	16.700	54.789	32.300	32.607	1.216	49.200	3.729	45.800
373	335	16.750	54.953	70.710	70.840	1.551	20.860	2.189	50.900
374	336	16.800	55.117	35.790	35.815	1.365	4.060	3.811	78.300
375	337	16.850	55.281	32.310	32.412	1.325	16.350	4.088	102.300
376	338	16.900	55.446	39.190	39.204	0.854	2.190	2.178	192.600
377	339	16.950	55.610	31.560	31.562	0.802	0.360	2.541	222.500
378	340	17.000	55.774	43.570	43.603	1.448	5.290	3.321	235.900
379	341	17.050	55.938	54.690	54.818	1.392	20.500	2.539	197.700
380	342	17.100	56.102	105.120	105.351	1.837	36.970	1.744	132.800
381	343	17.150	56.266	71.560	71.713	2.589	24.500	3.610	111.500
382	344	17.200	56.430	151.210	151.349	3.145	22.300	2.078	85.900
383	345	17.250	56.594	96.710	96.774	2.973	10.300	3.072	81.500
384	346	17.300	56.758	72.180	72.213	2.744	5.320	3.800	71.700
385	347	17.350	56.922	68.430	68.856	1.647	68.220	2.392	61.400
386	348	17.400	57.086	43.310	43.416	1.293	17.000	2.978	58.100
387	349	17.450	57.250	54.500	54.529	1.183	4.660	2.169	46.100
388	350	17.500	57.414	41.560	41.573	1.022	2.130	2.458	48.400
389	351	17.550	57.578	32.260	32.265	0.911	0.780	2.824	36.100
390	352	17.600	57.742	23.740	23.732	0.822	-1.220	3.464	36.600
391	353	17.650	57.906	28.160	28.156	0.614	-0.680	2.181	33.500
392	354	17.700	58.070	50.590	50.593	1.024	0.410	2.024	28.000
393	355	17.750	58.234	69.000	68.997	1.703	-0.480	2.468	29.300
394	356	17.800	58.398	59.400	59.424	1.746	3.850	2.938	29.500
395	357	17.850	58.562	26.030	26.081	1.695	8.220	6.499	34.600
396	358	17.900	58.726	59.290	59.341	1.939	8.110	3.268	22.500
397	359	17.950	58.890	90.420	90.476	2.404	8.900	2.657	37.700
398	360	18.000	59.054	56.400	56.431	2.671	4.930	4.733	31.300
399	361	18.050	59.218	39.900	39.945	1.872	7.240	4.686	32.200
400	362	18.100	59.382	64.300	64.392	1.948	14.710	3.025	39.200
401	363	18.150	59.547	81.170	81.241	3.053	11.350	3.758	46.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	74.870	74.954	3.435	13.410	4.583	42.100
403	365	18.250	59.875	73.950	74.061	3.015	17.720	4.071	39.100
404	366	18.300	60.039	141.630	141.815	2.693	29.710	1.899	26.200
405	367	18.350	60.203	163.560	163.651	4.097	14.650	2.503	24.100
406	368	18.400	60.367	144.090	144.139	4.510	7.890	3.129	15.600
407	369	18.450	60.531	124.650	124.912	4.719	41.980	3.778	15.100
408	370	18.500	60.695	114.410	114.575	4.172	26.390	3.641	16.100
409	371	18.550	60.859	77.780	77.809	3.828	4.610	4.920	17.500
410	372	18.600	61.023	58.410	58.486	3.198	12.160	5.468	17.400
411	373	18.650	61.187	45.210	45.446	2.546	37.770	5.602	14.900
412	374	18.700	61.351	67.470	67.669	2.217	31.900	3.276	23.700
413	375	18.750	61.515	73.210	73.277	2.074	10.800	2.830	22.000
414	376	18.800	61.679	55.100	55.157	1.907	9.170	3.457	24.000
415	377	18.850	61.843	29.690	29.741	2.643	8.150	8.887	27.700
416	378	18.900	62.007	135.360	135.451	2.796	14.590	2.064	0.000
417	379	18.950	62.171	192.550	192.611	3.305	9.830	1.716	0.000
418	380	19.000	62.335	190.640	190.704	4.565	10.180	2.394	0.000
419	381	19.050	62.499	206.060	206.176	5.203	18.600	2.524	0.000
420	382	19.100	62.663	196.270	196.501	6.442	37.060	3.278	0.000
421	383	19.150	62.827	191.100	191.213	5.477	18.080	2.864	0.000
422	384	19.200	62.991	170.820	171.068	4.038	39.770	2.360	0.000
423	385	19.250	63.155	129.080	129.135	2.820	8.770	2.184	0.000
424	386	19.300	63.319	89.980	90.010	1.769	4.840	1.965	0.000
425	387	19.350	63.483	56.890	56.909	1.806	2.990	3.174	0.000
426	388	19.400	63.648	57.820	57.850	1.827	4.850	3.158	0.000
427	389	19.450	63.812	67.170	67.240	2.266	11.270	3.370	0.000
428	390	19.500	63.976	125.130	125.230	1.540	15.940	1.230	0.000
429	391	19.550	64.140	197.970	198.315	2.823	55.280	1.423	0.000
430	392	19.600	64.304	324.770	325.017	0.000	39.610	0.000	0.000
431	393	19.650	64.468	402.250	402.442	0.000	30.810	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272384				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-05				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			00:36				
15		CPT File:			15-53039_GP1D-05.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722075.740				
31		Northing / Lat:			4294185.081				
32		Elevation:			148.540				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	8.460	8.465	0.020	0.850	0.236	26.700
40	2	0.100	0.328	53.420	53.448	0.066	4.440	0.123	22.300
41	3	0.150	0.492	62.230	62.230	0.076	0.060	0.122	27.700
42	4	0.200	0.656	66.220	66.221	0.119	0.160	0.180	27.600
43	5	0.250	0.820	53.670	53.692	0.112	3.520	0.209	32.000
44	6	0.300	0.984	48.740	48.740	0.140	0.010	0.287	32.300
45	7	0.350	1.148	49.820	49.821	0.161	0.100	0.323	37.100
46	8	0.400	1.312	43.800	43.857	0.267	9.120	0.609	48.400
47	9	0.450	1.476	19.340	19.407	0.261	10.730	1.345	66.000
48	10	0.500	1.640	18.090	18.121	0.348	4.990	1.920	63.800
49	11	0.550	1.804	26.990	26.982	0.399	-1.350	1.479	76.600
50	12	0.600	1.968	33.550	33.531	0.501	-3.000	1.494	85.600
51	13	0.650	2.133	42.780	42.740	0.659	-6.330	1.542	78.500
52	14	0.700	2.297	49.160	49.104	0.784	-8.920	1.597	78.400
53	15	0.750	2.461	51.340	51.267	0.943	-11.710	1.839	87.200
54	16	0.800	2.625	45.150	45.066	0.941	-13.530	2.088	90.900
55	17	0.850	2.789	36.410	36.324	1.025	-13.800	2.822	84.500
56	18	0.900	2.953	23.260	23.169	0.959	-14.640	4.139	86.400
57	19	0.950	3.117	22.130	22.047	1.110	-13.230	5.035	90.100
58	20	1.000	3.281	38.600	38.537	1.257	-10.130	3.262	86.500
59	21	1.050	3.445	38.290	38.235	1.282	-8.800	3.353	91.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	35.040	34.988	1.136	-8.300	3.247	99.100
61	23	1.150	3.773	30.340	30.283	0.920	-9.130	3.038	86.600
62	24	1.200	3.937	25.910	25.850	0.786	-9.580	3.041	91.000
63	25	1.250	4.101	19.610	19.544	0.588	-10.510	3.009	80.000
64	26	1.300	4.265	13.680	13.613	0.456	-10.700	3.350	96.600
65	27	1.350	4.429	10.020	9.955	0.328	-10.370	3.295	87.000
66	28	1.400	4.593	8.280	8.219	0.258	-9.820	3.139	88.400
67	29	1.450	4.757	6.330	6.273	0.170	-9.130	2.710	78.300
68	30	1.500	4.921	4.460	4.406	0.135	-8.710	3.064	94.000
69	31	1.550	5.085	5.160	5.157	0.140	-0.470	2.715	86.800
70	32	1.600	5.249	7.580	7.586	0.224	0.920	2.953	77.200
71	33	1.650	5.413	14.330	14.362	0.307	5.170	2.138	83.800
72	34	1.700	5.577	12.630	12.638	0.315	1.270	2.492	96.900
73	35	1.750	5.741	11.220	11.222	0.416	0.340	3.707	89.200
74	36	1.800	5.905	10.050	10.040	0.412	-1.650	4.104	82.300
75	37	1.850	6.069	14.160	14.180	0.444	3.270	3.131	91.400
76	38	1.900	6.234	15.900	15.924	0.458	3.830	2.876	88.400
77	39	1.950	6.398	13.680	13.665	0.458	-2.360	3.352	84.100
78	40	2.000	6.562	12.120	12.090	0.404	-4.860	3.342	74.300
79	41	2.050	6.726	17.330	17.295	0.379	-5.530	2.191	68.000
80	42	2.100	6.890	27.000	26.978	0.338	-3.550	1.253	54.500
81	43	2.150	7.054	35.990	35.992	0.698	0.400	1.939	35.600
82	44	2.200	7.218	41.830	41.835	0.878	0.850	2.099	36.200
83	45	2.250	7.382	24.590	24.614	0.924	3.770	3.754	31.200
84	46	2.300	7.546	37.390	37.398	0.609	1.230	1.628	24.100
85	47	2.350	7.710	37.910	37.935	0.617	3.990	1.626	22.000
86	48	2.400	7.874	25.830	25.840	0.653	1.570	2.527	21.200
87	49	2.450	8.038	37.160	37.171	0.564	1.730	1.517	16.000
88	50	2.500	8.202	33.500	33.510	0.577	1.660	1.722	17.300
89	51	2.550	8.366	16.780	16.785	0.399	0.860	2.377	18.400
90	52	2.600	8.530	19.370	19.394	0.339	3.820	1.748	28.200
91	53	2.650	8.694	46.560	46.635	0.306	11.970	0.656	18.200
92	54	2.700	8.858	63.240	64.145	0.428	144.990	0.667	23.500
93	55	2.750	9.022	53.850	54.169	0.527	51.030	0.973	26.500
94	56	2.800	9.186	19.730	19.739	0.444	1.520	2.249	28.200
95	57	2.850	9.350	24.200	24.200	0.361	-0.040	1.492	33.700
96	58	2.900	9.514	20.850	20.822	0.332	-4.440	1.594	32.300
97	59	2.950	9.678	29.820	29.845	0.163	4.040	0.546	39.400
98	60	3.000	9.842	19.450	19.524	0.415	11.830	2.126	35.800
99	61	3.050	10.006	32.860	32.861	0.304	0.160	0.925	39.800
100	62	3.100	10.170	35.800	35.787	0.246	-2.060	0.687	44.100
101	63	3.150	10.335	25.540	25.709	0.232	27.000	0.902	38.400
102	64	3.200	10.499	46.940	46.965	0.271	3.980	0.577	34.800
103	65	3.250	10.663	108.600	108.649	0.486	7.860	0.447	26.900
104	66	3.300	10.827	203.350	203.409	1.149	9.410	0.565	23.900
105	67	3.350	10.991	238.620	239.275	1.435	104.920	0.600	23.100
106	68	3.400	11.155	55.430	55.432	1.721	0.310	3.105	19.800
107	69	3.450	11.319	50.350	50.390	1.155	6.380	2.292	19.500
108	70	3.500	11.483	49.110	49.217	1.358	17.140	2.759	12.100
109	71	3.550	11.647	51.590	51.617	1.116	4.360	2.162	21.700
110	72	3.600	11.811	31.360	31.384	0.749	3.790	2.387	24.200
111	73	3.650	11.975	26.960	26.997	0.931	5.970	3.448	18.300
112	74	3.700	12.139	50.410	50.417	0.839	1.090	1.664	19.600
113	75	3.750	12.303	42.400	42.429	0.679	4.710	1.600	22.000
114	76	3.800	12.467	25.950	26.037	0.831	13.880	3.192	23.100
115	77	3.850	12.631	52.790	52.801	0.704	1.820	1.333	27.000
116	78	3.900	12.795	22.440	22.464	0.721	3.900	3.210	28.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	17.820	17.824	0.550	0.710	3.086	28.400
118	80	4.000	13.123	30.990	30.993	0.428	0.520	1.381	31.200
119	81	4.050	13.287	61.540	61.542	0.807	0.340	1.311	29.100
120	82	4.100	13.451	121.490	121.518	1.689	4.520	1.390	32.000
121	83	4.150	13.615	74.110	74.114	2.107	0.650	2.843	36.400
122	84	4.200	13.779	59.170	59.168	2.213	-0.280	3.740	43.900
123	85	4.250	13.943	43.880	43.885	1.632	0.800	3.719	43.800
124	86	4.300	14.107	15.550	15.599	0.960	7.830	6.154	64.600
125	87	4.350	14.271	15.590	15.722	0.736	21.180	4.681	61.000
126	88	4.400	14.436	45.420	45.587	0.708	26.700	1.553	65.100
127	89	4.450	14.600	48.140	48.248	0.650	17.320	1.347	53.700
128	90	4.500	14.764	51.990	52.049	0.948	9.390	1.821	48.900
129	91	4.550	14.928	50.410	50.416	0.893	1.010	1.771	28.900
130	92	4.600	15.092	31.320	31.369	1.043	7.880	3.325	15.500
131	93	4.650	15.256	37.360	37.448	1.003	14.100	2.678	17.300
132	94	4.700	15.420	47.850	47.888	1.060	6.140	2.213	16.500
133	95	4.750	15.584	38.120	38.146	1.442	4.140	3.780	15.500
134	96	4.800	15.748	79.370	79.374	1.625	0.720	2.047	17.800
135	97	4.850	15.912	57.350	57.434	1.859	13.390	3.237	14.500
136	98	4.900	16.076	45.740	45.760	2.036	3.140	4.449	21.600
137	99	4.950	16.240	55.130	55.139	1.468	1.410	2.662	17.000
138	100	5.000	16.404	53.290	53.401	1.351	17.710	2.530	24.600
139	101	5.050	16.568	61.280	61.288	1.538	1.300	2.509	30.000
140	102	5.100	16.732	103.150	103.284	1.794	21.440	1.737	41.000
141	103	5.150	16.896	60.180	60.179	1.787	-0.110	2.969	45.500
142	104	5.200	17.060	26.100	26.305	1.368	32.880	5.200	62.400
143	105	5.250	17.224	33.980	34.356	0.988	60.300	2.876	71.000
144	106	5.300	17.388	35.370	35.540	0.807	27.180	2.271	92.600
145	107	5.350	17.552	38.310	38.903	0.982	94.940	2.524	85.900
146	108	5.400	17.716	44.460	45.330	0.765	139.290	1.688	87.400
147	109	5.450	17.880	50.590	51.167	0.635	92.450	1.241	100.600
148	110	5.500	18.044	39.550	39.587	0.635	5.890	1.604	99.100
149	111	5.550	18.208	28.510	28.564	0.535	8.650	1.873	96.800
150	112	5.600	18.372	21.390	21.500	0.453	17.700	2.107	84.800
151	113	5.650	18.537	21.610	21.773	0.371	26.170	1.704	93.500
152	114	5.700	18.701	21.270	21.357	0.334	13.930	1.564	92.900
153	115	5.750	18.865	17.890	17.947	0.310	9.100	1.727	71.200
154	116	5.800	19.029	17.550	17.643	0.406	14.880	2.301	73.000
155	117	5.850	19.193	35.570	35.760	0.599	30.460	1.675	85.100
156	118	5.900	19.357	69.610	69.711	0.864	16.170	1.239	80.900
157	119	5.950	19.521	76.070	76.086	1.077	2.600	1.415	68.900
158	120	6.000	19.685	57.840	57.835	0.978	-0.760	1.691	67.900
159	121	6.050	19.849	42.140	42.135	1.016	-0.870	2.411	74.200
160	122	6.100	20.013	33.650	33.635	0.911	-2.410	2.708	59.100
161	123	6.150	20.177	32.020	32.065	0.995	7.270	3.103	45.000
162	124	6.200	20.341	45.180	45.245	0.855	10.430	1.890	45.600
163	125	6.250	20.505	32.590	32.764	0.808	27.920	2.466	48.300
164	126	6.300	20.669	54.390	54.408	1.145	2.820	2.104	44.000
165	127	6.350	20.833	55.090	55.119	0.966	4.660	1.753	54.300
166	128	6.400	20.997	31.960	32.012	0.963	8.270	3.008	57.600
167	129	6.450	21.161	41.220	41.262	0.567	6.800	1.374	65.600
168	130	6.500	21.325	69.000	69.101	0.767	16.170	1.110	69.700
169	131	6.550	21.489	89.630	89.682	0.787	8.280	0.878	69.700
170	132	6.600	21.653	86.190	86.249	1.155	9.510	1.339	79.600
171	133	6.650	21.817	61.920	61.996	1.373	12.150	2.215	73.600
172	134	6.700	21.981	49.570	49.712	1.513	22.700	3.044	53.800
173	135	6.750	22.145	52.780	52.924	1.586	23.000	2.997	62.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	43.630	43.702	1.263	11.500	2.890	62.800
175	137	6.850	22.473	38.210	38.300	1.220	14.390	3.185	60.600
176	138	6.900	22.638	24.550	24.671	1.406	19.430	5.699	78.400
177	139	6.950	22.802	56.170	56.704	1.778	85.590	3.136	71.400
178	140	7.000	22.966	46.050	46.039	1.737	-1.750	3.773	83.500
179	141	7.050	23.130	39.610	39.623	1.606	2.160	4.053	80.300
180	142	7.100	23.294	32.390	32.400	1.230	1.610	3.796	80.900
181	143	7.150	23.458	25.220	25.206	1.091	-2.190	4.328	79.600
182	144	7.200	23.622	25.350	25.334	0.809	-2.610	3.193	51.300
183	145	7.250	23.786	37.860	37.856	1.397	-0.720	3.690	56.400
184	146	7.300	23.950	41.330	41.354	2.640	3.910	6.384	38.600
185	147	7.350	24.114	56.520	56.506	3.304	-2.320	5.847	35.300
186	148	7.400	24.278	34.110	34.196	4.088	13.780	11.955	33.400
187	149	7.450	24.442	34.320	34.351	2.430	4.950	7.074	19.500
188	150	7.500	24.606	30.610	30.629	0.769	3.050	2.511	23.500
189	151	7.550	24.770	36.010	36.136	1.090	20.230	3.016	19.800
190	152	7.600	24.934	36.760	36.835	1.280	12.040	3.475	22.400
191	153	7.650	25.098	40.420	40.516	1.444	15.360	3.564	26.300
192	154	7.700	25.262	68.850	70.093	1.357	199.120	1.936	30.500
193	155	7.750	25.426	43.990	44.027	1.236	5.990	2.807	46.300
194	156	7.800	25.590	67.170	67.200	0.941	4.830	1.400	59.100
195	157	7.850	25.754	101.190	101.225	0.865	5.620	0.855	65.500
196	158	7.900	25.918	100.850	100.883	1.135	5.220	1.125	56.800
197	159	7.950	26.082	72.250	72.294	1.259	7.000	1.742	56.800
198	160	8.000	26.246	51.760	51.800	1.396	6.360	2.695	57.100
199	161	8.050	26.410	35.960	36.058	1.270	15.740	3.522	44.600
200	162	8.100	26.574	37.510	37.613	1.134	16.450	3.015	35.800
201	163	8.150	26.739	35.920	35.935	0.941	2.350	2.619	31.200
202	164	8.200	26.903	30.410	30.494	1.023	13.420	3.355	29.600
203	165	8.250	27.067	38.470	38.493	1.337	3.760	3.473	24.800
204	166	8.300	27.231	40.840	40.914	1.397	11.900	3.414	24.300
205	167	8.350	27.395	112.790	112.834	2.166	7.040	1.920	26.400
206	168	8.400	27.559	61.530	61.637	2.125	17.090	3.448	36.800
207	169	8.450	27.723	47.240	48.433	1.439	191.050	2.971	44.200
208	170	8.500	27.887	40.680	40.777	0.883	15.600	2.165	59.200
209	171	8.550	28.051	31.880	31.901	0.514	3.330	1.611	60.600
210	172	8.600	28.215	43.080	43.093	0.561	2.160	1.302	76.300
211	173	8.650	28.379	58.390	58.436	0.942	7.330	1.612	73.000
212	174	8.700	28.543	52.240	52.265	1.260	3.960	2.411	73.000
213	175	8.750	28.707	44.620	44.705	1.056	13.630	2.362	64.400
214	176	8.800	28.871	49.640	49.650	0.861	1.660	1.734	60.400
215	177	8.850	29.035	65.980	65.990	1.697	1.620	2.572	65.700
216	178	8.900	29.199	97.130	97.152	1.790	3.540	1.842	67.100
217	179	8.950	29.363	177.280	177.333	3.542	8.420	1.997	56.800
218	180	9.000	29.527	187.850	187.917	4.320	10.760	2.299	62.200
219	181	9.050	29.691	72.170	72.159	3.936	-1.760	5.455	55.700
220	182	9.100	29.855	119.910	119.916	1.403	0.990	1.170	71.600
221	183	9.150	30.019	107.200	107.208	2.628	1.320	2.451	71.900
222	184	9.200	30.183	51.920	51.924	2.860	0.680	5.508	64.500
223	185	9.250	30.347	71.400	71.433	2.323	5.290	3.252	67.600
224	186	9.300	30.511	70.090	70.061	0.372	-4.650	0.531	57.000
225	187	9.350	30.675	75.050	75.070	1.148	3.270	1.529	48.100
226	188	9.400	30.840	40.950	40.954	1.433	0.690	3.499	39.700
227	189	9.450	31.004	50.590	50.621	1.359	4.890	2.685	24.800
228	190	9.500	31.168	41.260	41.289	1.018	4.660	2.466	27.900
229	191	9.550	31.332	38.980	39.002	0.990	3.460	2.538	27.900
230	192	9.600	31.496	36.930	36.959	0.850	4.590	2.300	23.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	44.000	44.052	1.076	8.330	2.443	21.100
232	194	9.700	31.824	41.970	42.045	1.195	12.070	2.842	22.500
233	195	9.750	31.988	30.960	30.994	1.556	5.470	5.020	15.500
234	196	9.800	32.152	75.680	75.754	1.310	11.920	1.729	16.900
235	197	9.850	32.316	21.840	22.217	1.082	60.470	4.870	17.800
236	198	9.900	32.480	32.060	32.111	0.867	8.220	2.700	14.000
237	199	9.950	32.644	33.450	33.724	0.677	43.950	2.007	23.000
238	200	10.000	32.808	23.190	23.255	0.634	10.440	2.726	18.600
239	201	10.050	32.972	16.370	16.418	0.444	7.680	2.704	16.900
240	202	10.100	33.136	12.870	12.902	0.403	5.150	3.124	13.500
241	203	10.150	33.300	11.250	11.313	0.548	10.140	4.844	12.400
242	204	10.200	33.464	24.280	24.410	0.655	20.890	2.683	21.500
243	205	10.250	33.628	38.330	38.502	1.027	27.570	2.667	21.000
244	206	10.300	33.792	32.580	32.713	1.076	21.270	3.289	28.000
245	207	10.350	33.956	16.320	16.418	0.977	15.690	5.951	27.800
246	208	10.400	34.120	19.450	19.664	0.797	34.220	4.053	25.000
247	209	10.450	34.284	31.130	31.449	0.778	51.090	2.474	34.400
248	210	10.500	34.448	34.370	34.637	1.115	42.740	3.219	24.400
249	211	10.550	34.612	46.840	47.116	1.706	44.180	3.621	25.900
250	212	10.600	34.776	84.070	84.331	2.099	41.790	2.489	23.100
251	213	10.650	34.941	79.380	79.459	2.539	12.620	3.195	24.400
252	214	10.700	35.105	45.050	45.065	2.141	2.460	4.751	20.500
253	215	10.750	35.269	32.720	32.802	1.466	13.170	4.469	22.900
254	216	10.800	35.433	22.280	22.338	0.857	9.250	3.837	27.300
255	217	10.850	35.597	18.630	18.681	0.555	8.090	2.971	34.300
256	218	10.900	35.761	33.190	33.179	0.638	-1.700	1.923	40.500
257	219	10.950	35.925	32.830	32.900	0.650	11.170	1.976	40.300
258	220	11.000	36.089	18.710	18.857	0.675	23.580	3.580	46.900
259	221	11.050	36.253	23.310	23.523	0.729	34.090	3.099	53.400
260	222	11.100	36.417	27.230	27.369	0.763	22.280	2.788	55.900
261	223	11.150	36.581	19.750	19.872	0.732	19.600	3.684	47.400
262	224	11.200	36.745	15.300	15.513	0.499	34.090	3.217	57.600
263	225	11.250	36.909	28.530	28.811	0.492	45.000	1.708	54.700
264	226	11.300	37.073	27.060	27.217	0.462	25.090	1.697	63.900
265	227	11.350	37.237	13.170	13.353	0.423	29.260	3.168	66.100
266	228	11.400	37.401	11.810	12.054	0.397	39.150	3.293	65.100
267	229	11.450	37.565	12.520	12.781	0.249	41.800	1.948	62.100
268	230	11.500	37.729	12.130	12.300	0.200	27.180	1.626	71.800
269	231	11.550	37.893	11.930	12.163	0.299	37.280	2.458	81.000
270	232	11.600	38.057	25.050	25.390	0.474	54.540	1.867	85.300
271	233	11.650	38.221	39.320	39.445	0.746	19.960	1.891	92.700
272	234	11.700	38.385	34.680	34.839	0.968	25.430	2.779	84.700
273	235	11.750	38.549	85.660	86.667	1.694	161.340	1.955	87.300
274	236	11.800	38.713	112.940	113.068	2.048	20.570	1.811	94.400
275	237	11.850	38.877	131.040	131.205	2.326	26.510	1.773	84.400
276	238	11.900	39.042	132.640	132.736	2.561	15.340	1.929	86.000
277	239	11.950	39.206	136.440	136.499	2.554	9.420	1.871	104.200
278	240	12.000	39.370	121.120	121.192	2.922	11.550	2.411	86.800
279	241	12.050	39.534	111.830	111.916	2.510	13.750	2.243	97.200
280	242	12.100	39.698	98.860	98.945	2.123	13.660	2.146	98.000
281	243	12.150	39.862	61.090	61.141	1.575	8.200	2.576	86.700
282	244	12.200	40.026	35.640	35.669	0.976	4.640	2.736	85.700
283	245	12.250	40.190	23.300	23.350	0.970	8.060	4.154	84.100
284	246	12.300	40.354	27.000	27.130	0.845	20.900	3.115	78.800
285	247	12.350	40.518	56.230	56.596	1.136	58.580	2.007	78.500
286	248	12.400	40.682	85.210	85.398	1.457	30.110	1.706	81.200
287	249	12.450	40.846	103.960	104.092	1.383	21.110	1.329	86.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	119.200	119.285	1.222	13.660	1.024	70.200
289	251	12.550	41.174	118.160	118.242	1.082	13.070	0.915	81.000
290	252	12.600	41.338	112.420	112.487	1.125	10.730	1.000	69.300
291	253	12.650	41.502	103.630	103.691	1.132	9.810	1.092	64.600
292	254	12.700	41.666	87.710	87.763	1.263	8.540	1.439	72.000
293	255	12.750	41.830	68.300	68.348	1.462	7.680	2.139	67.900
294	256	12.800	41.994	60.610	60.655	1.562	7.130	2.575	69.200
295	257	12.850	42.158	44.660	44.789	1.514	20.700	3.380	69.200
296	258	12.900	42.322	37.850	38.054	1.484	32.620	3.900	93.500
297	259	12.950	42.486	46.880	47.203	1.410	51.720	2.987	87.600
298	260	13.000	42.650	51.020	51.392	1.324	59.610	2.576	92.300
299	261	13.050	42.814	67.110	67.383	1.121	43.810	1.664	78.200
300	262	13.100	42.978	78.480	78.606	0.937	20.110	1.192	91.900
301	263	13.150	43.143	72.920	72.997	0.850	12.330	1.164	85.200
302	264	13.200	43.307	61.080	61.144	0.856	10.230	1.400	76.300
303	265	13.250	43.471	46.830	46.889	0.959	9.510	2.045	84.000
304	266	13.300	43.635	33.300	33.358	0.966	9.360	2.896	79.100
305	267	13.350	43.799	22.780	22.855	0.842	12.050	3.684	67.400
306	268	13.400	43.963	29.800	29.891	0.878	14.640	2.937	40.700
307	269	13.450	44.127	45.010	45.082	0.920	11.460	2.041	37.500
308	270	13.500	44.291	20.570	20.610	0.921	6.480	4.469	29.000
309	271	13.550	44.455	14.540	14.610	0.909	11.220	6.222	23.700
310	272	13.600	44.619	30.290	30.381	0.912	14.600	3.002	13.000
311	273	13.650	44.783	23.650	23.775	1.159	19.950	4.875	14.500
312	274	13.700	44.947	30.260	30.406	1.073	23.420	3.529	10.000
313	275	13.750	45.111	23.330	23.472	0.939	22.700	4.001	10.500
314	276	13.800	45.275	26.250	26.588	0.932	54.070	3.505	12.400
315	277	13.850	45.439	19.690	19.924	1.031	37.450	5.175	12.500
316	278	13.900	45.603	23.890	24.060	0.763	27.230	3.171	14.400
317	279	13.950	45.767	21.950	22.073	0.711	19.710	3.221	19.400
318	280	14.000	45.931	53.770	53.881	0.807	17.750	1.498	12.600
319	281	14.050	46.095	61.510	61.556	1.039	7.320	1.688	18.500
320	282	14.100	46.259	31.490	31.591	1.631	16.110	5.163	20.400
321	283	14.150	46.423	23.090	23.381	1.214	46.600	5.192	25.000
322	284	14.200	46.587	56.580	56.636	1.217	9.040	2.149	35.600
323	285	14.250	46.751	60.690	60.802	1.289	17.870	2.120	51.200
324	286	14.300	46.915	31.890	32.022	1.296	21.130	4.047	47.400
325	287	14.350	47.079	32.160	32.305	0.925	23.210	2.863	71.400
326	288	14.400	47.244	28.080	28.274	0.843	31.070	2.982	81.000
327	289	14.450	47.408	24.370	24.528	0.818	25.290	3.335	88.100
328	290	14.500	47.572	22.650	22.875	0.713	36.090	3.117	92.900
329	291	14.550	47.736	19.640	19.810	0.759	27.280	3.831	94.400
330	292	14.600	47.900	18.140	18.364	0.739	35.910	4.024	64.400
331	293	14.650	48.064	47.130	47.409	1.248	44.700	2.632	54.300
332	294	14.700	48.228	63.280	63.371	1.358	14.500	2.143	57.500
333	295	14.750	48.392	37.960	38.119	1.429	25.440	3.749	31.900
334	296	14.800	48.556	23.590	23.817	1.268	36.310	5.324	27.800
335	297	14.850	48.720	38.860	39.327	1.586	74.870	4.033	25.500
336	298	14.900	48.884	88.930	89.067	2.452	22.020	2.753	20.700
337	299	14.950	49.048	97.590	97.706	3.573	18.560	3.657	17.900
338	300	15.000	49.212	107.780	107.987	3.787	33.210	3.507	16.800
339	301	15.050	49.376	80.140	80.298	3.709	25.290	4.619	15.800
340	302	15.100	49.540	72.410	72.544	2.767	21.540	3.814	12.300
341	303	15.150	49.704	47.650	47.760	2.043	17.570	4.278	9.400
342	304	15.200	49.868	39.660	39.759	1.235	15.830	3.106	11.700
343	305	15.250	50.032	32.080	32.186	0.783	17.020	2.433	7.900
344	306	15.300	50.196	157.130	157.212	0.549	13.140	0.349	12.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	200.520	200.605	2.102	13.560	1.048	10.000
346	308	15.400	50.524	321.810	321.922	3.921	17.980	1.218	16.200
347	309	15.450	50.688	327.870	327.974	3.781	16.630	1.153	25.000
348	310	15.500	50.852	37.300	37.363	2.099	10.160	5.618	35.400
349	311	15.550	51.016	30.430	30.702	0.994	43.640	3.238	41.700
350	312	15.600	51.180	21.270	21.886	0.756	98.620	3.454	46.500
351	313	15.650	51.345	34.190	35.071	0.794	141.090	2.264	49.400
352	314	15.700	51.509	37.000	38.011	0.929	162.010	2.444	46.300
353	315	15.750	51.673	44.520	45.587	1.458	170.840	3.198	29.800
354	316	15.800	51.837	65.860	66.565	1.998	112.940	3.002	21.700
355	317	15.850	52.001	76.920	77.042	2.422	19.570	3.144	24.600
356	318	15.900	52.165	61.390	61.904	2.877	82.400	4.647	25.400
357	319	15.950	52.329	90.940	92.657	2.761	275.010	2.980	22.800
358	320	16.000	52.493	64.400	64.990	2.891	94.530	4.448	28.900
359	321	16.050	52.657	53.440	53.562	2.131	19.560	3.979	38.700
360	322	16.100	52.821	140.040	140.234	2.257	31.030	1.609	30.900
361	323	16.150	52.985	144.470	144.710	2.729	38.480	1.886	51.200
362	324	16.200	53.149	99.470	99.589	2.509	19.090	2.519	65.100
363	325	16.250	53.313	99.390	99.615	2.185	36.040	2.193	93.100
364	326	16.300	53.477	62.290	62.468	1.668	28.520	2.670	90.300
365	327	16.350	53.641	58.880	59.300	1.535	67.260	2.589	109.200
366	328	16.400	53.805	67.110	67.744	1.183	101.500	1.746	132.300
367	329	16.450	53.969	79.180	79.302	0.806	19.480	1.016	186.700
368	330	16.500	54.133	134.810	134.952	1.804	22.750	1.337	261.800
369	331	16.550	54.297	110.640	110.770	1.941	20.850	1.752	399.200
370	332	16.600	54.461	51.370	51.503	1.993	21.230	3.870	621.300
371	333	16.650	54.625	32.080	32.212	1.126	21.170	3.496	930.100
372	334	16.700	54.789	30.940	31.152	1.058	33.960	3.396	1401.400
373	335	16.750	54.953	29.540	29.686	1.217	23.380	4.100	2091.300
374	336	16.800	55.117	42.150	42.268	1.352	18.940	3.199	2395.400
375	337	16.850	55.281	70.600	70.747	1.484	23.540	2.098	2046.000
376	338	16.900	55.446	57.470	57.550	1.484	12.820	2.579	1458.500
377	339	16.950	55.610	85.020	85.163	1.813	22.930	2.129	896.100
378	340	17.000	55.774	69.260	69.370	1.686	17.560	2.430	646.800
379	341	17.050	55.938	39.820	39.896	1.563	12.190	3.918	415.200
380	342	17.100	56.102	32.230	32.322	1.231	14.710	3.809	278.400
381	343	17.150	56.266	64.070	64.162	1.542	14.720	2.403	192.900
382	344	17.200	56.430	98.620	98.759	1.851	22.290	1.874	138.300
383	345	17.250	56.594	68.120	69.453	1.726	213.450	2.485	110.000
384	346	17.300	56.758	54.840	54.939	1.812	15.870	3.298	87.000
385	347	17.350	56.922	49.580	49.626	1.386	7.420	2.793	69.300
386	348	17.400	57.086	45.660	45.771	1.416	17.810	3.094	73.000
387	349	17.450	57.250	66.820	66.940	1.284	19.200	1.918	52.700
388	350	17.500	57.414	54.930	55.072	1.535	22.810	2.787	54.800
389	351	17.550	57.578	57.170	57.263	1.941	14.890	3.390	44.600
390	352	17.600	57.742	60.970	61.075	1.757	16.860	2.877	48.900
391	353	17.650	57.906	73.240	73.527	1.482	45.940	2.016	49.500
392	354	17.700	58.070	95.040	95.172	1.417	21.170	1.489	46.000
393	355	17.750	58.234	78.340	78.440	1.425	15.990	1.817	42.900
394	356	17.800	58.398	65.870	65.960	1.463	14.430	2.218	30.500
395	357	17.850	58.562	66.030	66.148	2.284	18.870	3.453	34.700
396	358	17.900	58.726	62.730	62.892	2.643	25.880	4.202	28.400
397	359	17.950	58.890	45.170	45.375	3.287	32.910	7.244	27.100
398	360	18.000	59.054	82.670	83.208	2.832	86.240	3.404	23.100
399	361	18.050	59.218	82.590	83.683	3.145	175.070	3.758	22.200
400	362	18.100	59.382	105.490	105.766	3.628	44.160	3.430	18.100
401	363	18.150	59.547	63.490	63.626	3.745	21.740	5.886	16.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	94.600	95.682	3.843	173.340	4.016	17.100
403	365	18.250	59.875	62.630	62.934	2.996	48.680	4.761	27.200
404	366	18.300	60.039	42.280	42.968	2.881	110.170	6.705	23.600
405	367	18.350	60.203	49.030	49.933	2.332	144.590	4.670	21.300
406	368	18.400	60.367	56.830	57.354	2.515	83.990	4.385	24.700
407	369	18.450	60.531	85.520	85.678	2.356	25.340	2.750	25.200
408	370	18.500	60.695	67.150	67.279	1.907	20.650	2.834	16.200
409	371	18.550	60.859	45.390	45.486	2.004	15.410	4.406	20.700
410	372	18.600	61.023	80.970	81.094	1.917	19.890	2.364	16.700
411	373	18.650	61.187	67.790	68.030	2.605	38.400	3.829	20.600
412	374	18.700	61.351	64.000	64.243	2.592	38.850	4.035	22.800
413	375	18.750	61.515	32.650	33.131	2.010	76.980	6.067	20.800
414	376	18.800	61.679	34.020	34.646	1.695	100.320	4.892	27.600
415	377	18.850	61.843	45.830	45.958	1.968	20.510	4.282	26.800
416	378	18.900	62.007	39.950	40.375	1.667	68.040	4.129	21.800
417	379	18.950	62.171	40.370	40.747	1.307	60.340	3.208	26.800
418	380	19.000	62.335	25.170	25.453	1.040	45.340	4.086	33.600
419	381	19.050	62.499	29.680	29.878	0.683	31.690	2.286	35.600
420	382	19.100	62.663	18.150	18.260	0.534	17.630	2.924	54.200
421	383	19.150	62.827	10.620	10.740	0.335	19.280	3.119	53.800
422	384	19.200	62.991	15.700	15.908	0.261	33.360	1.641	55.000
423	385	19.250	63.155	32.620	32.803	0.270	29.360	0.823	52.700
424	386	19.300	63.319	42.980	43.070	0.398	14.450	0.924	50.000
425	387	19.350	63.483	58.920	59.028	0.558	17.270	0.945	50.800
426	388	19.400	63.648	84.230	84.340	0.566	17.640	0.671	56.900
427	389	19.450	63.812	116.540	116.665	0.691	20.090	0.592	45.400
428	390	19.500	63.976	149.560	149.683	0.963	19.780	0.643	45.900
429	391	19.550	64.140	179.380	179.511	1.196	20.960	0.666	49.500
430	392	19.600	64.304	205.080	205.232	1.371	24.390	0.668	48.100
431	393	19.650	64.468	215.350	215.516	1.523	26.600	0.707	47.600
432	394	19.700	64.632	217.040	217.189	1.637	23.860	0.754	48.200
433	395	19.750	64.796	217.740	217.892	1.679	24.380	0.771	48.500
434	396	19.800	64.960	214.060	214.224	1.713	26.340	0.800	43.200
435	397	19.850	65.124	215.320	215.483	1.704	26.110	0.791	39.500
436	398	19.900	65.288	229.480	229.675	1.747	31.290	0.761	50.300
437	399	19.950	65.452	240.760	240.969	1.909	33.420	0.792	50.500
438	400	20.000	65.616	245.380	245.591	1.954	33.740	0.796	48.800
439	401	20.050	65.780	257.240	257.461	2.009	35.440	0.780	49.400
440	402	20.100	65.944	279.760	280.012	2.149	40.440	0.767	60.100
441	403	20.150	66.108	275.900	276.154	2.209	40.710	0.800	53.900
442	404	20.200	66.272	277.800	278.031	2.136	37.060	0.768	58.500
443	405	20.250	66.436	276.770	277.014	2.084	39.140	0.752	48.700
444	406	20.300	66.600	263.790	264.027	2.013	37.930	0.762	61.000
445	407	20.350	66.764	248.150	248.335	1.786	29.640	0.719	42.000
446	408	20.400	66.928	245.520	245.653	1.313	21.290	0.534	45.300
447	409	20.450	67.092	248.690	248.833	1.193	22.980	0.479	55.700
448	410	20.500	67.256	233.510	233.661	1.266	24.110	0.542	47.800
449	411	20.550	67.420	216.560	216.698	1.307	22.120	0.603	52.500
450	412	20.600	67.584	204.700	204.856	1.296	25.050	0.633	57.500
451	413	20.650	67.749	204.340	204.511	1.258	27.330	0.615	0.000
452	414	20.700	67.913	210.170	210.341	1.242	27.340	0.590	0.000
453	415	20.750	68.077	208.810	208.965	1.296	24.750	0.620	0.000
454	416	20.800	68.241	194.880	195.022	1.277	22.740	0.655	0.000
455	417	20.850	68.405	175.750	175.876	1.201	20.250	0.683	0.000
456	418	20.900	68.569	167.280	167.408	1.097	20.570	0.655	0.000
457	419	20.950	68.733	167.350	167.484	1.071	21.540	0.639	0.000
458	420	21.000	68.897	172.450	172.591	1.117	22.660	0.647	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	182.960	183.113	1.188	24.550	0.649	0.000
460	422	21.100	69.225	194.510	194.671	1.327	25.770	0.682	0.000
461	423	21.150	69.389	195.740	195.901	1.529	25.750	0.780	0.000
462	424	21.200	69.553	203.960	204.136	1.577	28.130	0.773	0.000
463	425	21.250	69.717	232.600	232.811	1.654	33.860	0.710	0.000
464	426	21.300	69.881	272.640	272.884	0.000	39.060	0.000	0.000
465	427	21.350	70.045	289.560	289.782	0.000	35.580	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272386				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCT15-1D-06				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-17-2015				
14		CPT Time:			11:30				
15		CPT File:			15-53039_GP1D-06.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722108.465				
31		Northing / Lat:			4294209.681				
32		Elevation:			156.120				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	18.760	18.767	0.016	1.080	0.085	18.600
40	2	0.100	0.328	24.230	24.244	0.066	2.300	0.272	20.400
41	3	0.150	0.492	26.840	26.843	0.033	0.540	0.123	20.500
42	4	0.200	0.656	22.750	22.756	0.035	1.030	0.154	18.500
43	5	0.250	0.820	22.740	22.750	0.023	1.600	0.101	23.700
44	6	0.300	0.984	25.840	25.858	0.041	2.850	0.159	22.300
45	7	0.350	1.148	27.620	27.691	0.015	11.300	0.054	29.900
46	8	0.400	1.312	30.140	30.143	0.106	0.550	0.352	32.300
47	9	0.450	1.476	41.030	41.034	0.196	0.680	0.478	35.700
48	10	0.500	1.640	55.160	55.162	0.208	0.270	0.377	62.400
49	11	0.550	1.804	32.470	32.688	0.398	34.880	1.218	63.800
50	12	0.600	1.968	37.220	37.227	0.658	1.070	1.768	83.900
51	13	0.650	2.133	43.340	43.365	0.657	3.940	1.515	75.200
52	14	0.700	2.297	52.930	52.902	0.876	-4.510	1.656	90.900
53	15	0.750	2.461	51.500	51.410	1.045	-14.340	2.033	82.100
54	16	0.800	2.625	44.150	44.044	1.135	-16.970	2.577	92.200
55	17	0.850	2.789	56.660	56.566	1.098	-15.000	1.941	95.300
56	18	0.900	2.953	71.640	71.541	1.295	-15.880	1.810	85.500
57	19	0.950	3.117	69.040	68.933	1.346	-17.140	1.953	84.900
58	20	1.000	3.281	51.900	51.787	1.485	-18.080	2.868	99.700
59	21	1.050	3.445	38.030	37.916	1.429	-18.230	3.769	95.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	69.330	69.228	1.442	-16.400	2.083	92.500
61	23	1.150	3.773	92.640	92.544	1.471	-15.350	1.590	82.200
62	24	1.200	3.937	77.570	77.465	1.481	-16.770	1.912	113.900
63	25	1.250	4.101	60.000	59.900	1.251	-16.090	2.088	93.000
64	26	1.300	4.265	54.340	54.240	1.136	-16.020	2.094	84.100
65	27	1.350	4.429	53.860	53.774	1.027	-13.760	1.910	95.300
66	28	1.400	4.593	66.200	66.137	0.909	-10.130	1.374	93.100
67	29	1.450	4.757	67.750	67.678	0.872	-11.530	1.288	94.100
68	30	1.500	4.921	57.490	57.480	0.675	-1.570	1.174	79.000
69	31	1.550	5.085	48.040	48.031	0.925	-1.480	1.926	68.600
70	32	1.600	5.249	57.420	57.425	0.647	0.810	1.127	56.000
71	33	1.650	5.413	52.780	52.780	0.737	0.070	1.396	39.800
72	34	1.700	5.577	115.880	115.890	1.140	1.550	0.984	29.900
73	35	1.750	5.741	166.590	166.636	1.455	7.340	0.873	34.600
74	36	1.800	5.905	52.000	52.037	1.978	5.940	3.801	25.200
75	37	1.850	6.069	56.810	56.857	1.260	7.470	2.216	21.900
76	38	1.900	6.234	17.370	17.472	1.062	16.390	6.078	18.900
77	39	1.950	6.398	25.290	25.461	1.020	27.470	4.006	25.800
78	40	2.000	6.562	20.180	20.176	0.698	-0.610	3.460	19.500
79	41	2.050	6.726	48.540	48.567	0.822	4.300	1.693	21.100
80	42	2.100	6.890	51.790	51.792	0.935	0.260	1.805	18.400
81	43	2.150	7.054	20.370	20.363	0.760	-1.130	3.732	16.100
82	44	2.200	7.218	25.080	25.097	0.353	2.770	1.407	15.000
83	45	2.250	7.382	32.100	32.106	0.270	0.890	0.841	18.600
84	46	2.300	7.546	63.840	63.845	0.238	0.790	0.373	15.400
85	47	2.350	7.710	108.560	108.756	0.495	31.400	0.455	11.200
86	48	2.400	7.874	118.610	119.115	1.146	80.930	0.962	15.600
87	49	2.450	8.038	91.210	91.406	1.696	31.460	1.855	18.900
88	50	2.500	8.202	119.300	119.529	0.942	36.640	0.788	14.800
89	51	2.550	8.366	161.510	161.556	1.069	7.420	0.662	17.100
90	52	2.600	8.530	180.810	180.886	1.366	12.240	0.755	20.700
91	53	2.650	8.694	77.540	77.564	1.483	3.880	1.912	20.100
92	54	2.700	8.858	25.130	25.262	1.029	21.130	4.073	27.000
93	55	2.750	9.022	33.350	33.405	1.074	8.850	3.215	22.600
94	56	2.800	9.186	18.170	18.177	0.703	1.160	3.867	36.900
95	57	2.850	9.350	18.660	18.661	0.505	0.240	2.706	35.600
96	58	2.900	9.514	13.170	13.167	0.282	-0.480	2.142	37.800
97	59	2.950	9.678	17.110	17.119	0.208	1.460	1.215	36.100
98	60	3.000	9.842	5.630	5.626	0.160	-0.710	2.844	52.400
99	61	3.050	10.006	4.620	4.621	0.245	0.200	5.302	48.700
100	62	3.100	10.170	5.170	5.173	0.222	0.430	4.292	63.600
101	63	3.150	10.335	8.100	8.151	0.511	8.210	6.269	51.900
102	64	3.200	10.499	114.170	114.182	0.601	1.890	0.526	49.200
103	65	3.250	10.663	124.110	124.106	1.213	-0.660	0.977	54.200
104	66	3.300	10.827	99.360	99.365	1.274	0.740	1.282	56.700
105	67	3.350	10.991	50.390	50.397	1.532	1.200	3.040	83.900
106	68	3.400	11.155	34.840	34.856	1.542	2.560	4.424	79.400
107	69	3.450	11.319	23.850	23.891	1.206	6.590	5.048	88.100
108	70	3.500	11.483	18.030	18.061	0.887	5.000	4.911	97.400
109	71	3.550	11.647	16.420	16.450	0.615	4.810	3.739	87.600
110	72	3.600	11.811	17.240	17.220	0.498	-3.160	2.892	76.400
111	73	3.650	11.975	24.490	24.494	0.527	0.660	2.152	73.100
112	74	3.700	12.139	16.360	16.363	0.556	0.420	3.398	62.500
113	75	3.750	12.303	10.730	10.740	0.642	1.530	5.978	57.000
114	76	3.800	12.467	37.930	37.915	0.919	-2.350	2.424	50.300
115	77	3.850	12.631	61.740	61.743	0.757	0.500	1.226	36.800
116	78	3.900	12.795	97.570	97.575	1.365	0.880	1.399	34.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	93.300	93.322	1.722	3.600	1.845	26.100
118	80	4.000	13.123	71.550	71.541	1.837	-1.520	2.568	21.500
119	81	4.050	13.287	67.540	67.595	1.627	8.820	2.407	21.400
120	82	4.100	13.451	68.810	68.925	1.143	18.360	1.658	23.700
121	83	4.150	13.615	78.420	78.441	1.333	3.290	1.699	19.600
122	84	4.200	13.779	104.640	104.638	1.220	-0.310	1.166	18.400
123	85	4.250	13.943	48.150	48.184	1.257	5.380	2.609	15.300
124	86	4.300	14.107	29.160	29.250	1.122	14.410	3.836	12.300
125	87	4.350	14.271	61.330	61.482	1.171	24.340	1.905	15.100
126	88	4.400	14.436	83.400	83.385	1.567	-2.430	1.879	11.700
127	89	4.450	14.600	64.610	64.652	1.345	6.790	2.080	13.000
128	90	4.500	14.764	78.710	78.733	0.786	3.710	0.998	13.900
129	91	4.550	14.928	79.210	79.264	0.903	8.730	1.139	18.400
130	92	4.600	15.092	99.290	99.300	0.779	1.670	0.784	7.900
131	93	4.650	15.256	121.460	121.495	1.268	5.630	1.044	9.400
132	94	4.700	15.420	84.500	84.505	1.234	0.770	1.460	10.400
133	95	4.750	15.584	51.800	51.802	1.216	0.270	2.347	11.500
134	96	4.800	15.748	64.120	64.138	0.684	2.810	1.066	11.400
135	97	4.850	15.912	73.250	73.295	0.781	7.220	1.066	10.900
136	98	4.900	16.076	41.050	41.067	1.051	2.670	2.559	11.400
137	99	4.950	16.240	38.100	38.123	0.670	3.750	1.757	11.000
138	100	5.000	16.404	58.830	58.838	0.779	1.360	1.324	9.800
139	101	5.050	16.568	67.840	67.849	0.714	1.450	1.052	14.000
140	102	5.100	16.732	158.020	158.154	0.755	21.520	0.477	14.800
141	103	5.150	16.896	122.780	122.787	0.739	1.190	0.602	13.900
142	104	5.200	17.060	129.180	129.190	1.430	1.600	1.107	22.800
143	105	5.250	17.224	113.140	113.202	1.163	9.930	1.027	13.800
144	106	5.300	17.388	106.990	107.063	1.231	11.640	1.150	11.800
145	107	5.350	17.552	97.680	97.779	0.704	15.880	0.720	15.300
146	108	5.400	17.716	100.230	100.233	0.890	0.430	0.888	20.000
147	109	5.450	17.880	106.390	106.394	1.199	0.720	1.127	20.000
148	110	5.500	18.044	90.540	90.546	1.401	0.920	1.547	18.000
149	111	5.550	18.208	85.510	85.663	1.384	24.440	1.616	20.200
150	112	5.600	18.372	101.550	101.556	1.113	0.970	1.096	16.400
151	113	5.650	18.537	85.670	85.682	1.245	1.960	1.453	22.600
152	114	5.700	18.701	81.310	81.314	0.648	0.670	0.797	14.200
153	115	5.750	18.865	125.200	125.250	1.131	7.980	0.903	15.500
154	116	5.800	19.029	131.030	131.107	1.471	12.400	1.122	10.300
155	117	5.850	19.193	83.740	83.826	1.458	13.770	1.739	13.300
156	118	5.900	19.357	74.560	74.578	1.182	2.810	1.585	13.000
157	119	5.950	19.521	59.950	59.979	0.886	4.670	1.477	12.400
158	120	6.000	19.685	91.150	91.149	1.014	-0.110	1.112	9.400
159	121	6.050	19.849	77.160	77.161	1.293	0.220	1.676	13.900
160	122	6.100	20.013	89.360	89.367	1.477	1.180	1.653	12.800
161	123	6.150	20.177	119.220	119.294	1.306	11.920	1.095	12.400
162	124	6.200	20.341	160.530	160.540	1.238	1.580	0.771	14.200
163	125	6.250	20.505	98.110	98.192	1.615	13.150	1.645	16.500
164	126	6.300	20.669	122.920	122.970	1.122	8.030	0.912	10.200
165	127	6.350	20.833	84.860	84.856	1.095	-0.600	1.290	18.300
166	128	6.400	20.997	48.080	48.115	0.860	5.580	1.787	12.300
167	129	6.450	21.161	66.630	66.646	0.567	2.590	0.851	13.700
168	130	6.500	21.325	44.390	44.393	0.922	0.460	2.077	14.800
169	131	6.550	21.489	85.870	85.871	0.590	0.110	0.687	14.000
170	132	6.600	21.653	107.860	107.876	0.877	2.530	0.813	11.800
171	133	6.650	21.817	60.920	60.916	0.919	-0.570	1.509	10.300
172	134	6.700	21.981	72.240	72.281	0.863	6.630	1.194	16.000
173	135	6.750	22.145	54.620	54.622	0.917	0.260	1.679	19.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	70.030	70.034	1.155	0.650	1.649	16.900
175	137	6.850	22.473	78.140	78.148	1.113	1.250	1.424	17.300
176	138	6.900	22.638	75.260	75.268	0.840	1.230	1.116	17.800
177	139	6.950	22.802	97.570	97.584	1.198	2.230	1.228	25.100
178	140	7.000	22.966	67.470	67.509	1.257	6.320	1.862	26.200
179	141	7.050	23.130	92.760	92.765	2.061	0.810	2.222	21.900
180	142	7.100	23.294	99.700	99.705	1.842	0.820	1.847	24.900
181	143	7.150	23.458	121.500	121.499	1.681	-0.110	1.384	24.900
182	144	7.200	23.622	73.020	73.023	1.663	0.430	2.277	28.100
183	145	7.250	23.786	62.320	62.334	1.129	2.190	1.811	31.600
184	146	7.300	23.950	39.940	39.943	0.983	0.460	2.461	34.100
185	147	7.350	24.114	59.770	59.779	0.821	1.470	1.373	36.700
186	148	7.400	24.278	61.380	61.383	1.138	0.520	1.854	46.200
187	149	7.450	24.442	99.350	99.353	1.043	0.450	1.050	50.900
188	150	7.500	24.606	97.630	97.693	1.393	10.080	1.426	49.200
189	151	7.550	24.770	69.100	69.129	1.399	4.690	2.024	59.100
190	152	7.600	24.934	100.940	100.977	2.859	5.870	2.831	52.500
191	153	7.650	25.098	181.890	181.890	3.763	0.020	2.069	46.600
192	154	7.700	25.262	107.680	107.698	2.803	2.900	2.603	51.100
193	155	7.750	25.426	136.100	136.100	4.553	0.020	3.345	43.900
194	156	7.800	25.590	172.080	172.081	1.841	0.110	1.070	43.500
195	157	7.850	25.754	107.080	107.080	2.228	0.050	2.081	43.400
196	158	7.900	25.918	66.580	66.581	1.793	0.230	2.693	38.400
197	159	7.950	26.082	50.240	50.256	1.349	2.530	2.684	38.500
198	160	8.000	26.246	57.860	57.867	1.230	1.070	2.126	33.800
199	161	8.050	26.410	65.760	65.758	0.845	-0.400	1.285	35.800
200	162	8.100	26.574	70.770	70.769	0.706	-0.180	0.998	28.800
201	163	8.150	26.739	51.280	51.280	0.698	0.040	1.361	37.100
202	164	8.200	26.903	48.410	48.411	1.008	0.180	2.082	38.600
203	165	8.250	27.067	65.570	65.590	0.993	3.210	1.514	35.800
204	166	8.300	27.231	41.820	41.828	1.306	1.360	3.122	34.600
205	167	8.350	27.395	98.310	98.308	0.707	-0.390	0.719	39.400
206	168	8.400	27.559	170.110	170.159	0.438	7.800	0.257	34.100
207	169	8.450	27.723	268.040	268.071	0.891	5.030	0.332	30.000
208	170	8.500	27.887	299.400	299.411	0.777	1.820	0.260	39.000
209	171	8.550	28.051	306.050	306.062	2.571	1.860	0.840	52.500
210	172	8.600	28.215	188.830	188.826	3.373	-0.680	1.786	65.300
211	173	8.650	28.379	132.470	132.500	3.393	4.810	2.561	81.900
212	174	8.700	28.543	138.600	139.764	3.310	186.520	2.368	85.700
213	175	8.750	28.707	148.880	149.079	3.200	31.830	2.147	80.700
214	176	8.800	28.871	137.680	137.736	2.888	9.010	2.097	103.500
215	177	8.850	29.035	128.330	128.359	2.857	4.700	2.226	88.900
216	178	8.900	29.199	89.950	90.224	2.971	43.820	3.293	75.100
217	179	8.950	29.363	65.470	65.796	2.018	52.150	3.067	70.900
218	180	9.000	29.527	41.770	41.815	1.779	7.200	4.254	70.900
219	181	9.050	29.691	26.330	26.349	1.281	3.020	4.862	63.400
220	182	9.100	29.855	24.060	24.075	0.727	2.350	3.020	42.900
221	183	9.150	30.019	25.900	25.919	0.744	3.030	2.870	38.500
222	184	9.200	30.183	30.210	30.224	0.807	2.190	2.670	28.900
223	185	9.250	30.347	25.660	25.674	1.037	2.290	4.039	25.300
224	186	9.300	30.511	34.430	34.438	0.877	1.240	2.547	26.600
225	187	9.350	30.675	40.940	40.937	0.743	-0.480	1.815	20.000
226	188	9.400	30.840	11.850	11.845	0.979	-0.840	8.265	19.000
227	189	9.450	31.004	50.580	50.598	1.121	2.880	2.216	19.400
228	190	9.500	31.168	95.590	95.605	1.789	2.380	1.871	17.700
229	191	9.550	31.332	145.200	145.227	2.622	4.330	1.805	16.400
230	192	9.600	31.496	67.970	67.934	2.962	-5.760	4.360	27.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	51.790	51.821	2.022	4.900	3.902	25.600
232	194	9.700	31.824	99.880	99.930	1.307	8.040	1.308	26.200
233	195	9.750	31.988	107.500	108.128	1.605	100.650	1.484	31.300
234	196	9.800	32.152	41.170	41.238	1.747	10.930	4.236	38.100
235	197	9.850	32.316	31.260	31.324	1.633	10.180	5.213	35.300
236	198	9.900	32.480	59.480	59.555	1.736	11.970	2.915	30.600
237	199	9.950	32.644	101.780	101.774	1.180	-0.900	1.159	39.100
238	200	10.000	32.808	82.340	82.440	0.248	16.010	0.301	31.700
239	201	10.050	32.972	29.570	29.600	0.404	4.770	1.365	33.100
240	202	10.100	33.136	44.500	44.569	0.549	11.010	1.232	39.900
241	203	10.150	33.300	59.590	59.623	0.947	5.310	1.588	42.500
242	204	10.200	33.464	79.970	80.044	1.036	11.850	1.294	29.700
243	205	10.250	33.628	133.110	133.183	1.500	11.650	1.126	43.000
244	206	10.300	33.792	92.570	92.569	1.829	-0.180	1.976	38.200
245	207	10.350	33.956	58.150	58.139	1.684	-1.750	2.897	50.800
246	208	10.400	34.120	39.390	39.407	1.528	2.670	3.878	48.200
247	209	10.450	34.284	47.130	47.211	1.610	13.010	3.410	66.000
248	210	10.500	34.448	64.300	64.413	1.432	18.100	2.223	54.200
249	211	10.550	34.612	93.120	93.333	1.330	34.100	1.425	58.100
250	212	10.600	34.776	114.720	114.794	1.281	11.870	1.116	61.500
251	213	10.650	34.941	124.640	124.670	1.766	4.880	1.417	68.900
252	214	10.700	35.105	119.820	119.839	1.749	3.040	1.459	59.100
253	215	10.750	35.269	85.250	85.280	1.789	4.740	2.098	79.600
254	216	10.800	35.433	52.810	52.828	2.070	2.820	3.918	79.400
255	217	10.850	35.597	34.420	34.423	1.397	0.510	4.058	69.100
256	218	10.900	35.761	36.120	36.122	1.339	0.280	3.707	70.700
257	219	10.950	35.925	55.420	55.447	1.135	4.250	2.047	86.400
258	220	11.000	36.089	62.140	62.184	1.281	7.090	2.060	82.100
259	221	11.050	36.253	49.070	49.095	1.200	4.020	2.444	90.900
260	222	11.100	36.417	48.840	48.874	1.087	5.490	2.224	80.100
261	223	11.150	36.581	51.090	51.138	0.893	7.640	1.746	75.700
262	224	11.200	36.745	39.340	39.348	0.563	1.240	1.431	74.000
263	225	11.250	36.909	28.710	28.702	0.416	-1.280	1.449	70.100
264	226	11.300	37.073	24.590	24.579	0.285	-1.830	1.160	48.800
265	227	11.350	37.237	18.760	18.753	0.254	-1.190	1.354	35.900
266	228	11.400	37.401	5.770	5.753	0.337	-2.680	5.858	34.500
267	229	11.450	37.565	20.850	20.837	0.472	-2.010	2.265	33.100
268	230	11.500	37.729	21.280	21.270	0.442	-1.560	2.078	23.100
269	231	11.550	37.893	18.190	18.192	0.570	0.280	3.133	21.800
270	232	11.600	38.057	19.270	19.267	0.581	-0.460	3.015	23.600
271	233	11.650	38.221	18.030	18.013	0.566	-2.780	3.142	18.300
272	234	11.700	38.385	15.120	15.116	0.492	-0.580	3.255	21.000
273	235	11.750	38.549	12.470	12.482	0.310	1.860	2.484	17.800
274	236	11.800	38.713	10.430	10.424	0.304	-1.040	2.916	15.700
275	237	11.850	38.877	15.870	15.863	0.196	-1.140	1.236	19.800
276	238	11.900	39.042	12.790	12.830	0.204	6.430	1.590	16.700
277	239	11.950	39.206	8.190	8.170	0.232	-3.230	2.840	15.300
278	240	12.000	39.370	5.860	5.838	0.151	-3.570	2.587	22.600
279	241	12.050	39.534	5.990	5.980	0.155	-1.650	2.592	13.400
280	242	12.100	39.698	10.230	10.231	0.169	0.150	1.652	23.500
281	243	12.150	39.862	12.090	12.085	0.297	-0.880	2.458	25.800
282	244	12.200	40.026	12.490	12.522	0.379	5.120	3.027	41.800
283	245	12.250	40.190	14.650	14.644	0.462	-0.950	3.155	35.800
284	246	12.300	40.354	15.640	15.719	0.559	12.670	3.556	64.000
285	247	12.350	40.518	19.180	19.236	0.676	8.970	3.514	67.600
286	248	12.400	40.682	23.630	23.694	0.684	10.280	2.887	85.100
287	249	12.450	40.846	28.910	28.966	0.813	9.020	2.807	79.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	28.740	28.755	0.731	2.470	2.542	81.100
289	251	12.550	41.174	45.210	45.227	0.628	2.740	1.389	80.300
290	252	12.600	41.338	40.960	40.961	0.770	0.190	1.880	83.200
291	253	12.650	41.502	37.030	37.031	0.799	0.210	2.158	82.600
292	254	12.700	41.666	33.180	33.186	0.960	0.950	2.893	70.000
293	255	12.750	41.830	37.480	37.485	0.883	0.740	2.356	55.800
294	256	12.800	41.994	25.460	25.477	1.090	2.760	4.278	45.600
295	257	12.850	42.158	38.800	38.824	1.013	3.790	2.609	37.500
296	258	12.900	42.322	26.640	26.684	1.010	7.040	3.785	38.600
297	259	12.950	42.486	25.130	25.151	1.281	3.430	5.093	31.700
298	260	13.000	42.650	59.150	59.177	1.913	4.300	3.233	25.100
299	261	13.050	42.814	27.930	27.982	1.732	8.300	6.190	31.800
300	262	13.100	42.978	76.190	76.238	1.529	7.630	2.006	28.400
301	263	13.150	43.143	84.400	84.435	1.228	5.550	1.454	28.800
302	264	13.200	43.307	118.280	118.286	1.695	0.920	1.433	36.000
303	265	13.250	43.471	147.390	147.425	2.191	5.550	1.486	36.000
304	266	13.300	43.635	94.700	94.704	2.290	0.720	2.418	33.100
305	267	13.350	43.799	28.960	28.981	2.015	3.310	6.953	41.200
306	268	13.400	43.963	18.980	19.002	1.186	3.580	6.241	34.300
307	269	13.450	44.127	6.570	6.584	0.738	2.290	11.208	31.100
308	270	13.500	44.291	39.780	39.776	0.534	-0.630	1.343	37.500
309	271	13.550	44.455	44.660	44.679	0.777	3.050	1.739	38.400
310	272	13.600	44.619	76.410	76.414	1.282	0.600	1.678	41.000
311	273	13.650	44.783	41.840	41.828	1.682	-1.940	4.021	49.200
312	274	13.700	44.947	76.920	77.020	1.530	15.990	1.987	46.700
313	275	13.750	45.111	51.950	52.112	1.383	25.960	2.654	55.900
314	276	13.800	45.275	78.580	78.547	1.589	-5.210	2.023	57.400
315	277	13.850	45.439	66.030	66.032	1.250	0.300	1.893	67.900
316	278	13.900	45.603	44.510	44.531	0.985	3.310	2.212	66.500
317	279	13.950	45.767	34.750	34.805	1.043	8.880	2.997	86.100
318	280	14.000	45.931	35.940	35.996	1.013	9.050	2.814	84.100
319	281	14.050	46.095	36.060	36.131	1.163	11.310	3.219	85.900
320	282	14.100	46.259	37.720	37.786	1.293	10.530	3.422	84.200
321	283	14.150	46.423	47.700	47.773	1.620	11.760	3.391	85.200
322	284	14.200	46.587	62.330	62.446	1.867	18.640	2.990	73.100
323	285	14.250	46.751	74.250	74.388	1.743	22.140	2.343	91.000
324	286	14.300	46.915	40.330	40.399	1.774	11.120	4.391	71.900
325	287	14.350	47.079	24.020	24.046	1.330	4.100	5.531	68.400
326	288	14.400	47.244	35.290	35.325	1.204	5.680	3.408	74.000
327	289	14.450	47.408	70.240	70.318	1.851	12.520	2.632	74.200
328	290	14.500	47.572	58.520	58.590	1.792	11.210	3.059	79.200
329	291	14.550	47.736	49.320	49.395	1.357	11.940	2.747	73.700
330	292	14.600	47.900	63.530	63.580	0.900	8.050	1.416	72.900
331	293	14.650	48.064	52.060	52.096	0.868	5.750	1.666	64.800
332	294	14.700	48.228	64.480	64.513	1.224	5.240	1.897	62.600
333	295	14.750	48.392	124.080	124.206	2.486	20.150	2.002	53.600
334	296	14.800	48.556	245.550	246.192	3.783	102.850	1.537	47.000
335	297	14.850	48.720	152.250	152.545	4.277	47.230	2.804	42.500
336	298	14.900	48.884	73.430	73.458	3.265	4.470	4.445	46.500
337	299	14.950	49.048	36.130	36.144	1.250	2.290	3.458	45.800
338	300	15.000	49.212	26.130	26.145	0.860	2.470	3.289	52.600
339	301	15.050	49.376	19.790	19.803	0.916	2.120	4.626	52.400
340	302	15.100	49.540	22.400	22.413	0.561	2.110	2.503	44.000
341	303	15.150	49.704	31.540	31.544	0.566	0.670	1.794	49.200
342	304	15.200	49.868	10.330	10.341	0.668	1.790	6.460	50.000
343	305	15.250	50.032	54.050	54.054	1.354	0.660	2.505	43.600
344	306	15.300	50.196	71.680	71.703	3.308	3.630	4.613	35.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	81.620	81.650	2.274	4.740	2.785	33.300
346	308	15.400	50.524	160.440	160.495	1.885	8.860	1.174	29.000
347	309	15.450	50.688	100.700	100.668	1.701	-5.180	1.690	29.000
348	310	15.500	50.852	95.310	95.353	1.774	6.960	1.860	33.300
349	311	15.550	51.016	88.150	88.149	1.333	-0.130	1.512	40.300
350	312	15.600	51.180	51.750	51.762	0.964	1.880	1.862	50.500
351	313	15.650	51.345	32.430	32.430	0.569	-0.070	1.755	46.100
352	314	15.700	51.509	28.590	28.596	0.516	0.980	1.804	47.600
353	315	15.750	51.673	50.230	50.234	0.688	0.570	1.370	73.000
354	316	15.800	51.837	91.900	91.929	0.796	4.650	0.866	75.700
355	317	15.850	52.001	78.700	78.705	0.868	0.750	1.103	66.500
356	318	15.900	52.165	58.780	58.775	1.346	-0.820	2.290	70.100
357	319	15.950	52.329	46.800	46.796	1.362	-0.670	2.911	57.000
358	320	16.000	52.493	31.730	31.741	1.513	1.750	4.767	57.500
359	321	16.050	52.657	32.120	32.136	0.930	2.560	2.894	50.000
360	322	16.100	52.821	20.590	20.601	0.678	1.770	3.291	47.700
361	323	16.150	52.985	26.550	26.592	0.615	6.760	2.313	39.500
362	324	16.200	53.149	41.450	41.460	0.825	1.610	1.990	37.600
363	325	16.250	53.313	32.840	32.851	0.797	1.840	2.426	31.700
364	326	16.300	53.477	30.630	30.626	0.876	-0.580	2.860	28.100
365	327	16.350	53.641	24.550	24.538	0.824	-1.980	3.358	35.500
366	328	16.400	53.805	25.670	25.659	0.885	-1.800	3.449	39.800
367	329	16.450	53.969	44.560	44.591	0.710	5.040	1.592	37.600
368	330	16.500	54.133	46.850	46.873	1.112	3.750	2.372	41.600
369	331	16.550	54.297	66.120	66.132	1.912	1.890	2.891	36.300
370	332	16.600	54.461	115.580	115.622	2.147	6.740	1.857	31.900
371	333	16.650	54.625	135.450	135.513	2.615	10.030	1.930	22.200
372	334	16.700	54.789	98.260	98.403	3.127	22.980	3.178	25.800
373	335	16.750	54.953	95.740	95.748	2.450	1.310	2.559	24.600
374	336	16.800	55.117	45.720	45.828	2.567	17.350	5.601	17.900
375	337	16.850	55.281	124.730	125.034	2.008	48.770	1.606	15.500
376	338	16.900	55.446	189.610	189.726	2.156	18.510	1.136	17.000
377	339	16.950	55.610	169.030	169.114	2.064	13.490	1.220	15.100
378	340	17.000	55.774	148.260	148.305	1.835	7.250	1.237	15.600
379	341	17.050	55.938	77.010	77.044	1.947	5.400	2.527	16.100
380	342	17.100	56.102	119.270	119.312	2.142	6.650	1.795	14.600
381	343	17.150	56.266	58.310	58.327	2.108	2.690	3.614	12.500
382	344	17.200	56.430	53.820	53.871	2.312	8.120	4.292	14.200
383	345	17.250	56.594	130.210	130.286	2.345	12.120	1.800	18.100
384	346	17.300	56.758	131.840	131.919	2.507	12.620	1.900	12.000
385	347	17.350	56.922	119.330	119.398	2.547	10.970	2.133	11.900
386	348	17.400	57.086	139.150	139.220	2.721	11.240	1.954	13.300
387	349	17.450	57.250	138.170	138.307	1.854	22.010	1.340	14.800
388	350	17.500	57.414	88.690	88.649	2.363	-6.580	2.666	14.600
389	351	17.550	57.578	79.860	79.859	1.991	-0.170	2.493	17.600
390	352	17.600	57.742	102.280	102.280	1.848	-0.010	1.807	21.600
391	353	17.650	57.906	118.930	118.927	1.571	-0.470	1.321	27.500
392	354	17.700	58.070	62.000	61.999	1.280	-0.210	2.065	35.500
393	355	17.750	58.234	42.810	42.811	1.277	0.210	2.983	40.100
394	356	17.800	58.398	25.730	25.733	0.664	0.500	2.580	51.500
395	357	17.850	58.562	33.860	33.883	0.604	3.670	1.783	54.200
396	358	17.900	58.726	38.280	38.286	0.714	1.020	1.865	69.900
397	359	17.950	58.890	49.750	49.765	0.701	2.340	1.409	70.600
398	360	18.000	59.054	50.020	50.026	0.641	1.010	1.281	88.000
399	361	18.050	59.218	45.230	45.263	0.705	5.360	1.558	86.200
400	362	18.100	59.382	47.620	47.645	0.725	4.040	1.522	82.600
401	363	18.150	59.547	39.980	40.027	0.743	7.460	1.856	91.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	34.660	34.723	0.759	10.130	2.186	82.600
403	365	18.250	59.875	36.560	36.668	0.885	17.320	2.414	81.500
404	366	18.300	60.039	48.910	48.992	1.202	13.200	2.453	77.400
405	367	18.350	60.203	47.370	47.452	1.430	13.150	3.014	76.200
406	368	18.400	60.367	36.940	37.019	1.214	12.660	3.279	69.600
407	369	18.450	60.531	46.990	47.134	1.152	23.060	2.444	57.500
408	370	18.500	60.695	52.840	52.822	1.206	-2.850	2.283	50.300
409	371	18.550	60.859	83.810	83.798	1.184	-1.920	1.413	48.900
410	372	18.600	61.023	137.260	137.285	1.030	4.080	0.750	50.500
411	373	18.650	61.187	124.160	124.171	0.963	1.740	0.776	45.300
412	374	18.700	61.351	102.020	102.010	0.750	-1.550	0.735	53.300
413	375	18.750	61.515	86.520	86.513	0.878	-1.110	1.015	46.300
414	376	18.800	61.679	81.910	81.926	0.923	2.620	1.127	43.200
415	377	18.850	61.843	60.000	60.039	0.812	6.200	1.352	41.200
416	378	18.900	62.007	48.170	48.204	1.004	5.420	2.083	38.000
417	379	18.950	62.171	43.900	43.916	1.450	2.500	3.302	43.900
418	380	19.000	62.335	26.720	26.741	1.455	3.300	5.441	43.200
419	381	19.050	62.499	34.380	34.382	1.357	0.290	3.947	41.200
420	382	19.100	62.663	72.360	72.367	1.312	1.110	1.813	42.600
421	383	19.150	62.827	75.680	75.755	1.771	12.090	2.338	42.000
422	384	19.200	62.991	54.220	54.286	1.819	10.630	3.351	39.400
423	385	19.250	63.155	45.230	45.262	1.575	5.190	3.480	42.300
424	386	19.300	63.319	49.310	49.339	1.345	4.670	2.726	38.400
425	387	19.350	63.483	42.210	42.294	1.170	13.400	2.766	35.700
426	388	19.400	63.648	55.090	55.096	1.459	1.020	2.648	33.800
427	389	19.450	63.812	68.960	68.962	1.214	0.320	1.760	31.400
428	390	19.500	63.976	51.570	51.657	1.405	13.880	2.720	30.600
429	391	19.550	64.140	32.000	32.036	1.111	5.700	3.468	33.700
430	392	19.600	64.304	46.670	46.693	0.889	3.630	1.904	35.000
431	393	19.650	64.468	73.870	73.899	1.587	4.650	2.148	33.100
432	394	19.700	64.632	50.420	50.476	2.100	9.050	4.160	33.800
433	395	19.750	64.796	112.720	112.800	2.396	12.770	2.124	37.400
434	396	19.800	64.960	125.290	125.433	2.938	22.850	2.342	38.900
435	397	19.850	65.124	127.670	127.956	3.210	45.850	2.509	39.000
436	398	19.900	65.288	151.410	151.564	2.466	24.680	1.627	41.500
437	399	19.950	65.452	73.590	73.590	1.584	0.060	2.152	48.500
438	400	20.000	65.616	75.810	75.841	1.492	4.890	1.967	57.400
439	401	20.050	65.780	143.520	143.548	1.915	4.520	1.334	55.200
440	402	20.100	65.944	284.900	284.917	1.294	2.780	0.454	54.200
441	403	20.150	66.108	230.380	230.386	3.098	1.010	1.345	47.100
442	404	20.200	66.272	165.070	165.146	2.878	12.240	1.743	48.800
443	405	20.250	66.436	65.270	65.467	2.162	31.520	3.302	51.900
444	406	20.300	66.600	90.420	90.541	1.914	19.350	2.114	53.700
445	407	20.350	66.764	109.010	109.084	1.946	11.840	1.784	50.100
446	408	20.400	66.928	233.330	233.472	2.759	22.710	1.182	48.000
447	409	20.450	67.092	128.890	129.235	3.397	55.280	2.629	47.800
448	410	20.500	67.256	159.740	159.943	3.636	32.460	2.273	50.400
449	411	20.550	67.420	67.370	67.463	2.286	14.970	3.389	53.400
450	412	20.600	67.584	42.010	42.119	1.598	17.390	3.794	69.700
451	413	20.650	67.749	37.190	37.487	1.333	47.540	3.556	69.200
452	414	20.700	67.913	31.490	31.895	1.217	64.800	3.816	77.800
453	415	20.750	68.077	28.760	29.032	1.216	43.510	4.189	85.600
454	416	20.800	68.241	29.670	29.955	0.995	45.730	3.322	87.000
455	417	20.850	68.405	114.580	114.659	1.182	12.660	1.031	78.200
456	418	20.900	68.569	85.640	85.657	1.638	2.770	1.912	86.000
457	419	20.950	68.733	44.560	44.589	1.792	4.630	4.019	101.600
458	420	21.000	68.897	48.520	48.565	1.477	7.150	3.041	83.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	73.610	73.653	1.869	6.950	2.538	96.900
460	422	21.100	69.225	116.940	117.014	1.847	11.790	1.578	101.500
461	423	21.150	69.389	103.510	103.552	1.784	6.720	1.723	93.600
462	424	21.200	69.553	121.810	121.825	1.558	2.450	1.279	103.300
463	425	21.250	69.717	85.210	85.211	1.693	0.200	1.987	104.400
464	426	21.300	69.881	54.550	54.582	1.351	5.180	2.475	104.700
465	427	21.350	70.045	60.800	60.801	1.570	0.230	2.582	93.800
466	428	21.400	70.209	70.920	70.967	1.539	7.510	2.169	99.000
467	429	21.450	70.373	63.900	63.935	1.227	5.590	1.919	91.000
468	430	21.500	70.537	52.810	52.840	0.948	4.800	1.794	81.300
469	431	21.550	70.701	57.610	57.638	0.774	4.510	1.343	91.000
470	432	21.600	70.865	55.050	55.056	0.658	0.920	1.195	85.000
471	433	21.650	71.029	46.610	46.608	0.641	-0.250	1.375	90.200
472	434	21.700	71.193	36.710	36.705	0.641	-0.840	1.746	82.900
473	435	21.750	71.357	29.400	29.391	0.578	-1.490	1.967	91.600
474	436	21.800	71.521	21.770	21.759	0.579	-1.730	2.661	84.200
475	437	21.850	71.685	23.410	23.398	0.767	-1.850	3.278	83.900
476	438	21.900	71.850	30.910	30.901	0.955	-1.430	3.091	83.500
477	439	21.950	72.014	26.660	26.647	1.177	-2.140	4.417	73.900
478	440	22.000	72.178	12.050	12.041	1.142	-1.400	9.484	63.900
479	441	22.050	72.342	30.030	30.029	1.035	-0.200	3.447	47.900
480	442	22.100	72.506	27.240	27.233	1.104	-1.060	4.054	64.400
481	443	22.150	72.670	40.560	40.553	0.958	-1.050	2.362	44.800
482	444	22.200	72.834	29.450	29.453	0.946	0.550	3.212	44.500
483	445	22.250	72.998	41.290	41.289	0.785	-0.180	1.901	55.200
484	446	22.300	73.162	89.050	89.024	1.242	-4.220	1.395	43.700
485	447	22.350	73.326	152.580	152.581	1.861	0.180	1.220	51.900
486	448	22.400	73.490	86.200	86.215	2.490	2.440	2.888	44.900
487	449	22.450	73.654	62.830	62.842	2.574	1.920	4.096	41.500
488	450	22.500	73.818	49.850	49.877	1.713	4.360	3.434	38.600
489	451	22.550	73.982	51.390	51.397	1.233	1.130	2.399	38.100
490	452	22.600	74.146	48.820	48.852	1.386	5.120	2.837	32.300
491	453	22.650	74.310	64.140	64.141	2.018	0.130	3.146	34.900
492	454	22.700	74.474	65.960	66.044	2.216	13.500	3.355	30.500
493	455	22.750	74.638	50.230	50.282	2.147	8.310	4.270	26.900
494	456	22.800	74.802	34.250	34.292	2.043	6.800	5.958	26.800
495	457	22.850	74.966	48.470	48.527	1.992	9.120	4.105	22.700
496	458	22.900	75.130	60.820	60.875	2.287	8.800	3.757	19.900
497	459	22.950	75.294	67.800	67.843	2.123	6.880	3.129	23.700
498	460	23.000	75.458	42.430	42.444	1.936	2.270	4.561	16.500
499	461	23.050	75.622	107.410	107.463	2.461	8.450	2.290	15.600
500	462	23.100	75.786	115.680	115.684	3.358	0.690	2.903	19.000
501	463	23.150	75.951	98.830	98.948	3.840	18.870	3.881	19.200
502	464	23.200	76.115	139.750	139.859	3.706	17.500	2.650	22.200
503	465	23.250	76.279	115.420	115.449	2.990	4.630	2.590	26.700
504	466	23.300	76.443	77.060	77.079	2.954	2.990	3.832	33.300
505	467	23.350	76.607	96.110	96.140	2.464	4.810	2.563	40.400
506	468	23.400	76.771	102.310	102.340	2.325	4.780	2.272	42.000
507	469	23.450	76.935	112.640	112.661	2.114	3.320	1.876	43.200
508	470	23.500	77.099	100.390	100.396	1.738	0.920	1.731	49.100
509	471	23.550	77.263	78.180	78.174	1.725	-0.920	2.207	56.600
510	472	23.600	77.427	50.630	50.605	1.872	-4.070	3.699	53.400
511	473	23.650	77.591	40.690	40.663	1.948	-4.320	4.791	49.600
512	474	23.700	77.755	41.550	41.524	1.891	-4.230	4.554	40.400
513	475	23.750	77.919	47.790	47.764	1.618	-4.120	3.387	28.900
514	476	23.800	78.083	43.560	43.534	1.581	-4.210	3.632	22.900
515	477	23.850	78.247	41.460	41.435	1.832	-4.040	4.421	20.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	47.780	47.775	1.865	-0.750	3.904	18.900
517	479	23.950	78.575	69.010	69.025	2.039	2.470	2.954	18.100
518	480	24.000	78.739	65.960	65.968	2.240	1.310	3.396	21.200
519	481	24.050	78.903	70.180	70.193	2.093	2.060	2.982	25.100
520	482	24.100	79.067	36.990	37.007	1.664	2.760	4.496	34.000
521	483	24.150	79.231	37.290	37.313	1.363	3.700	3.653	33.500
522	484	24.200	79.395	50.350	50.370	0.980	3.130	1.946	29.100
523	485	24.250	79.559	111.300	111.309	0.648	1.420	0.582	30.300
524	486	24.300	79.723	152.860	152.873	0.457	2.080	0.299	29.200
525	487	24.350	79.887	224.950	224.971	0.765	3.440	0.340	30.900
526	488	24.400	80.052	243.650	243.691	0.847	6.500	0.348	35.300
527	489	24.450	80.216	237.290	237.321	0.724	4.980	0.305	35.300
528	490	24.500	80.380	205.430	205.454	1.237	3.840	0.602	0.000
529	491	24.550	80.544	204.410	204.439	1.111	4.710	0.543	0.000
530	492	24.600	80.708	192.950	192.981	1.091	5.010	0.565	0.000
531	493	24.650	80.872	187.310	187.337	1.131	4.370	0.604	0.000
532	494	24.700	81.036	173.410	173.435	0.961	4.050	0.554	0.000
533	495	24.750	81.200	169.080	169.106	1.204	4.180	0.712	0.000
534	496	24.800	81.364	156.120	156.139	1.306	2.990	0.836	0.000
535	497	24.850	81.528	169.820	169.838	0.898	2.950	0.529	0.000
536	498	24.900	81.692	162.160	162.188	0.386	4.500	0.238	0.000
537	499	24.950	81.856	163.950	163.983	0.926	5.360	0.565	0.000
538	500	25.000	82.020	197.550	197.592	1.055	6.780	0.534	0.000
539	501	25.050	82.184	165.120	165.169	1.172	7.830	0.710	0.000
540	502	25.100	82.348	178.280	178.320	1.006	6.460	0.564	0.000
541	503	25.150	82.512	208.150	208.190	1.169	6.350	0.562	0.000
542	504	25.200	82.676	255.320	255.420	0.000	15.950	0.000	0.000
543	505	25.250	82.840	315.720	315.803	0.000	13.330	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272389				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-07				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-14-2015				
14		CPT Time:			21:13				
15		CPT File:			15-53039_GP1D-07.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722109.990				
31		Northing / Lat:			4294185.249				
32		Elevation:			156.220				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	42.980	42.985	0.099	0.860	0.230	15.600
40	2	0.100	0.328	53.190	53.197	0.256	1.080	0.481	31.800
41	3	0.150	0.492	43.850	43.859	0.173	1.450	0.394	30.200
42	4	0.200	0.656	40.170	40.180	0.205	1.660	0.510	29.500
43	5	0.250	0.820	43.790	43.803	0.288	2.090	0.657	40.000
44	6	0.300	0.984	23.830	23.851	0.357	3.420	1.497	58.500
45	7	0.350	1.148	23.220	23.241	0.437	3.310	1.880	79.300
46	8	0.400	1.312	28.540	28.558	0.443	2.890	1.551	77.300
47	9	0.450	1.476	31.200	31.217	0.515	2.730	1.650	60.400
48	10	0.500	1.640	26.070	26.087	0.559	2.670	2.143	84.700
49	11	0.550	1.804	21.440	21.455	0.602	2.420	2.806	77.000
50	12	0.600	1.968	19.100	19.114	0.505	2.230	2.642	78.900
51	13	0.650	2.133	17.430	17.440	0.442	1.680	2.534	91.200
52	14	0.700	2.297	15.500	15.505	0.383	0.790	2.470	80.700
53	15	0.750	2.461	14.030	14.029	0.379	-0.090	2.701	79.600
54	16	0.800	2.625	14.410	14.409	0.374	-0.200	2.596	63.100
55	17	0.850	2.789	14.500	14.502	0.382	0.290	2.634	69.500
56	18	0.900	2.953	12.970	12.973	0.384	0.530	2.960	64.100
57	19	0.950	3.117	47.280	47.286	0.371	1.040	0.785	58.000
58	20	1.000	3.281	156.250	156.266	0.601	2.540	0.385	31.300
59	21	1.050	3.445	221.020	221.037	2.514	2.660	1.137	33.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	210.430	210.443	0.322	2.150	0.153	25.000
61	23	1.150	3.773	252.470	252.475	0.816	0.850	0.323	25.100
62	24	1.200	3.937	141.470	141.475	1.787	0.770	1.263	27.500
63	25	1.250	4.101	115.390	115.397	2.115	1.100	1.833	30.800
64	26	1.300	4.265	78.350	78.357	2.003	1.120	2.556	61.200
65	27	1.350	4.429	54.460	54.497	1.376	5.880	2.525	63.800
66	28	1.400	4.593	47.550	47.597	1.335	7.600	2.805	84.000
67	29	1.450	4.757	57.460	57.509	1.166	7.900	2.027	83.100
68	30	1.500	4.921	64.050	64.097	1.142	7.570	1.782	88.200
69	31	1.550	5.085	46.720	46.752	1.081	5.090	2.312	80.900
70	32	1.600	5.249	23.480	23.504	0.815	3.840	3.467	86.900
71	33	1.650	5.413	19.410	19.388	0.707	-3.530	3.647	90.900
72	34	1.700	5.577	22.110	22.089	0.692	-3.360	3.133	79.000
73	35	1.750	5.741	21.810	21.788	0.673	-3.560	3.089	91.200
74	36	1.800	5.905	18.200	18.178	0.697	-3.590	3.834	76.600
75	37	1.850	6.069	16.510	16.488	0.594	-3.550	3.603	70.400
76	38	1.900	6.234	25.940	25.916	0.384	-3.820	1.482	58.400
77	39	1.950	6.398	86.770	86.769	1.467	-0.170	1.691	38.400
78	40	2.000	6.562	169.470	169.479	2.136	1.380	1.260	39.200
79	41	2.050	6.726	61.140	61.147	2.197	1.070	3.593	39.500
80	42	2.100	6.890	54.160	54.177	2.222	2.800	4.101	36.600
81	43	2.150	7.054	84.430	84.449	2.168	3.120	2.567	30.300
82	44	2.200	7.218	48.500	48.531	1.840	5.030	3.791	33.200
83	45	2.250	7.382	30.890	30.928	1.364	6.140	4.410	23.400
84	46	2.300	7.546	29.730	29.766	0.998	5.780	3.353	28.600
85	47	2.350	7.710	37.860	37.905	0.838	7.150	2.211	22.400
86	48	2.400	7.874	43.400	43.439	0.640	6.300	1.473	18.300
87	49	2.450	8.038	46.440	46.477	0.666	5.930	1.433	19.300
88	50	2.500	8.202	98.850	98.890	1.035	6.440	1.047	15.900
89	51	2.550	8.366	135.970	136.039	1.064	11.120	0.782	21.000
90	52	2.600	8.530	156.520	156.688	1.770	26.980	1.130	17.600
91	53	2.650	8.694	152.470	152.815	1.769	55.190	1.158	21.400
92	54	2.700	8.858	68.830	69.155	1.480	52.020	2.140	12.500
93	55	2.750	9.022	67.280	67.528	1.428	39.730	2.115	16.800
94	56	2.800	9.186	70.090	70.301	1.099	33.740	1.563	12.400
95	57	2.850	9.350	35.640	35.817	0.852	28.290	2.379	10.900
96	58	2.900	9.514	36.130	36.274	0.725	23.050	1.999	13.000
97	59	2.950	9.678	49.270	49.372	0.256	16.400	0.519	12.300
98	60	3.000	9.842	117.420	117.499	0.444	12.630	0.378	15.200
99	61	3.050	10.006	63.460	63.529	0.606	11.000	0.954	18.400
100	62	3.100	10.170	47.540	47.582	0.834	6.750	1.753	18.400
101	63	3.150	10.335	70.140	70.185	0.886	7.170	1.262	23.500
102	64	3.200	10.499	60.120	60.164	1.012	7.050	1.682	20.800
103	65	3.250	10.663	55.850	55.883	1.186	5.240	2.122	32.000
104	66	3.300	10.827	91.190	91.233	0.863	6.930	0.946	27.200
105	67	3.350	10.991	74.200	74.257	1.152	9.150	1.551	35.500
106	68	3.400	11.155	56.410	56.436	0.970	4.100	1.719	30.500
107	69	3.450	11.319	48.260	48.290	0.800	4.780	1.657	32.700
108	70	3.500	11.483	46.370	46.406	0.945	5.690	2.036	34.700
109	71	3.550	11.647	57.350	57.372	0.952	3.540	1.659	27.400
110	72	3.600	11.811	39.470	39.510	0.958	6.460	2.425	32.300
111	73	3.650	11.975	38.700	38.736	1.167	5.780	3.013	37.200
112	74	3.700	12.139	51.190	51.229	1.083	6.170	2.114	38.100
113	75	3.750	12.303	61.080	61.119	1.202	6.280	1.967	34.700
114	76	3.800	12.467	43.270	43.314	1.417	7.110	3.271	32.800
115	77	3.850	12.631	47.000	47.044	1.573	7.110	3.344	27.500
116	78	3.900	12.795	39.610	39.651	1.457	6.600	3.675	32.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	34.980	35.021	1.382	6.590	3.946	44.400
118	80	4.000	13.123	25.550	25.597	1.119	7.480	4.372	37.300
119	81	4.050	13.287	26.180	26.237	0.756	9.200	2.881	42.900
120	82	4.100	13.451	24.450	24.514	0.536	10.210	2.187	46.600
121	83	4.150	13.615	15.140	15.221	0.480	13.030	3.153	55.100
122	84	4.200	13.779	14.840	14.921	0.461	12.930	3.090	75.000
123	85	4.250	13.943	21.670	21.817	0.552	23.570	2.530	75.100
124	86	4.300	14.107	36.060	36.188	0.697	20.510	1.926	66.300
125	87	4.350	14.271	51.930	52.046	1.150	18.650	2.210	85.800
126	88	4.400	14.436	41.800	41.887	1.306	13.920	3.118	96.300
127	89	4.450	14.600	30.970	31.025	1.245	8.800	4.013	93.000
128	90	4.500	14.764	23.930	23.966	1.034	5.790	4.314	90.400
129	91	4.550	14.928	19.550	19.574	0.741	3.800	3.786	79.400
130	92	4.600	15.092	17.600	17.621	0.643	3.320	3.649	86.700
131	93	4.650	15.256	17.290	17.302	0.580	1.970	3.352	60.600
132	94	4.700	15.420	36.270	36.281	1.073	1.810	2.957	53.900
133	95	4.750	15.584	44.460	44.472	0.982	1.970	2.208	38.600
134	96	4.800	15.748	42.280	42.294	1.030	2.300	2.435	29.000
135	97	4.850	15.912	58.450	58.465	1.115	2.330	1.907	30.600
136	98	4.900	16.076	49.300	49.318	1.219	2.820	2.472	24.700
137	99	4.950	16.240	32.690	32.708	1.172	2.850	3.583	23.200
138	100	5.000	16.404	34.870	34.891	1.041	3.410	2.984	21.200
139	101	5.050	16.568	63.490	63.513	0.806	3.680	1.269	19.700
140	102	5.100	16.732	41.350	41.374	1.165	3.780	2.816	13.200
141	103	5.150	16.896	73.000	73.024	1.086	3.830	1.487	15.800
142	104	5.200	17.060	65.450	65.478	1.248	4.480	1.906	17.900
143	105	5.250	17.224	98.020	98.035	1.206	2.330	1.230	13.600
144	106	5.300	17.388	100.920	100.926	1.125	1.000	1.115	17.200
145	107	5.350	17.552	78.990	79.010	0.967	3.190	1.224	16.600
146	108	5.400	17.716	55.490	55.512	1.062	3.480	1.913	16.900
147	109	5.450	17.880	44.590	44.612	0.956	3.590	2.143	14.000
148	110	5.500	18.044	76.280	76.304	1.244	3.770	1.630	10.200
149	111	5.550	18.208	59.770	59.808	1.165	6.140	1.948	17.800
150	112	5.600	18.372	85.650	85.687	1.046	5.900	1.221	11.200
151	113	5.650	18.537	86.070	86.107	1.064	5.850	1.236	14.600
152	114	5.700	18.701	69.160	69.195	1.063	5.680	1.536	12.700
153	115	5.750	18.865	103.630	103.664	1.298	5.490	1.252	16.200
154	116	5.800	19.029	118.110	118.146	1.803	5.750	1.526	13.200
155	117	5.850	19.193	112.560	112.595	1.810	5.680	1.608	15.200
156	118	5.900	19.357	62.330	62.365	1.562	5.650	2.505	14.000
157	119	5.950	19.521	47.410	47.444	0.927	5.380	1.954	9.500
158	120	6.000	19.685	57.220	57.246	1.014	4.090	1.771	15.400
159	121	6.050	19.849	79.130	79.150	1.277	3.150	1.613	10.900
160	122	6.100	20.013	100.310	100.328	1.508	2.900	1.503	13.100
161	123	6.150	20.177	184.680	184.704	1.318	3.910	0.714	12.200
162	124	6.200	20.341	78.020	78.039	1.358	3.030	1.740	14.900
163	125	6.250	20.505	81.040	81.056	1.260	2.490	1.554	12.800
164	126	6.300	20.669	56.970	56.974	1.032	0.650	1.811	13.700
165	127	6.350	20.833	41.480	41.484	0.781	0.620	1.883	16.200
166	128	6.400	20.997	67.510	67.519	0.631	1.480	0.935	17.000
167	129	6.450	21.161	71.570	71.592	0.887	3.500	1.239	19.300
168	130	6.500	21.325	72.850	72.874	2.307	3.830	3.166	16.100
169	131	6.550	21.489	81.640	81.668	2.179	4.530	2.668	15.400
170	132	6.600	21.653	165.490	165.522	2.216	5.060	1.339	18.200
171	133	6.650	21.817	289.240	289.278	1.426	6.140	0.493	19.100
172	134	6.700	21.981	302.290	302.327	1.544	5.970	0.511	19.900
173	135	6.750	22.145	129.810	129.843	1.954	5.280	1.505	22.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	178.320	178.331	2.357	1.840	1.322	18.700
175	137	6.850	22.473	108.720	108.740	1.860	3.200	1.711	16.200
176	138	6.900	22.638	67.340	67.359	1.262	2.990	1.874	18.100
177	139	6.950	22.802	59.050	59.067	1.091	2.780	1.847	19.900
178	140	7.000	22.966	81.110	81.131	1.240	3.300	1.528	18.800
179	141	7.050	23.130	87.480	87.501	1.607	3.370	1.837	17.400
180	142	7.100	23.294	101.970	101.995	1.636	3.980	1.604	24.900
181	143	7.150	23.458	118.290	118.326	2.013	5.740	1.701	25.200
182	144	7.200	23.622	107.570	107.609	1.921	6.240	1.785	32.600
183	145	7.250	23.786	78.890	78.937	2.090	7.540	2.648	33.200
184	146	7.300	23.950	96.690	96.739	2.515	7.920	2.600	44.700
185	147	7.350	24.114	104.580	104.632	2.382	8.250	2.277	40.800
186	148	7.400	24.278	115.430	115.478	2.105	7.730	1.823	42.000
187	149	7.450	24.442	94.780	94.829	1.426	7.800	1.504	43.900
188	150	7.500	24.606	72.850	72.900	1.639	8.050	2.248	39.800
189	151	7.550	24.770	66.720	66.770	1.418	8.040	2.124	37.500
190	152	7.600	24.934	63.680	63.728	1.488	7.650	2.335	36.100
191	153	7.650	25.098	98.930	98.976	1.512	7.370	1.528	29.200
192	154	7.700	25.262	71.470	71.519	1.357	7.770	1.897	27.400
193	155	7.750	25.426	54.120	54.167	1.270	7.540	2.345	19.000
194	156	7.800	25.590	65.740	65.790	1.110	8.000	1.687	21.500
195	157	7.850	25.754	68.150	68.201	1.506	8.150	2.208	15.400
196	158	7.900	25.918	69.430	69.489	1.138	9.430	1.638	12.600
197	159	7.950	26.082	84.490	84.544	1.239	8.730	1.466	13.800
198	160	8.000	26.246	91.060	91.115	1.517	8.850	1.665	9.200
199	161	8.050	26.410	67.440	67.493	1.332	8.530	1.974	10.800
200	162	8.100	26.574	45.040	45.090	0.830	8.060	1.841	9.200
201	163	8.150	26.739	59.090	59.146	1.351	9.020	2.284	8.400
202	164	8.200	26.903	77.780	77.835	1.004	8.860	1.290	9.200
203	165	8.250	27.067	50.420	50.478	1.042	9.340	2.064	14.200
204	166	8.300	27.231	47.510	47.572	1.067	9.970	2.243	16.300
205	167	8.350	27.395	117.370	117.435	1.006	10.360	0.857	15.000
206	168	8.400	27.559	100.240	100.300	1.247	9.540	1.243	23.500
207	169	8.450	27.723	77.010	77.070	1.624	9.660	2.107	21.800
208	170	8.500	27.887	121.150	121.210	2.187	9.630	1.804	27.000
209	171	8.550	28.051	155.730	155.789	2.139	9.520	1.373	36.300
210	172	8.600	28.215	123.210	123.265	2.094	8.870	1.699	43.300
211	173	8.650	28.379	101.420	101.484	1.837	10.180	1.810	48.100
212	174	8.700	28.543	79.010	79.069	1.365	9.450	1.726	55.200
213	175	8.750	28.707	76.450	76.508	1.381	9.330	1.805	71.900
214	176	8.800	28.871	80.320	80.376	1.358	8.970	1.690	73.800
215	177	8.850	29.035	73.580	73.635	1.854	8.890	2.518	94.100
216	178	8.900	29.199	72.590	72.644	1.634	8.720	2.249	80.800
217	179	8.950	29.363	64.450	64.505	1.383	8.790	2.144	90.400
218	180	9.000	29.527	71.550	71.605	1.560	8.760	2.179	90.900
219	181	9.050	29.691	75.160	75.212	1.748	8.400	2.324	83.100
220	182	9.100	29.855	74.610	74.660	1.646	8.020	2.205	78.800
221	183	9.150	30.019	72.830	72.879	1.212	7.880	1.663	79.400
222	184	9.200	30.183	58.760	58.806	1.047	7.380	1.780	69.600
223	185	9.250	30.347	42.310	42.354	1.096	7.010	2.588	51.100
224	186	9.300	30.511	41.710	41.753	1.504	6.890	3.602	46.200
225	187	9.350	30.675	68.330	68.373	2.002	6.900	2.928	36.400
226	188	9.400	30.840	89.630	89.674	2.695	6.980	3.005	39.100
227	189	9.450	31.004	60.840	60.889	2.549	7.890	4.186	33.200
228	190	9.500	31.168	74.200	74.248	2.937	7.640	3.956	36.000
229	191	9.550	31.332	165.960	166.011	2.627	8.210	1.582	25.400
230	192	9.600	31.496	263.810	263.869	3.274	9.480	1.241	21.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	222.460	222.516	3.303	9.010	1.484	15.600
232	194	9.700	31.824	194.720	194.775	3.476	8.760	1.785	17.600
233	195	9.750	31.988	119.570	119.625	2.484	8.880	2.076	12.400
234	196	9.800	32.152	104.600	104.665	2.480	10.370	2.369	19.400
235	197	9.850	32.316	103.480	103.544	1.538	10.280	1.485	18.200
236	198	9.900	32.480	61.880	61.943	1.303	10.140	2.104	15.800
237	199	9.950	32.644	88.880	88.947	1.216	10.660	1.367	18.800
238	200	10.000	32.808	77.010	77.082	1.659	11.500	2.152	17.700
239	201	10.050	32.972	75.610	75.684	2.253	11.850	2.977	22.600
240	202	10.100	33.136	74.580	74.656	2.156	12.130	2.888	24.000
241	203	10.150	33.300	124.200	124.280	1.513	12.860	1.217	23.100
242	204	10.200	33.464	83.590	83.675	1.607	13.610	1.921	21.200
243	205	10.250	33.628	60.040	60.122	1.081	13.130	1.798	20.700
244	206	10.300	33.792	69.390	69.466	1.046	12.100	1.506	13.800
245	207	10.350	33.956	59.010	59.084	0.784	11.840	1.327	18.900
246	208	10.400	34.120	36.080	36.148	0.937	10.860	2.592	20.300
247	209	10.450	34.284	44.650	44.717	1.219	10.790	2.726	28.800
248	210	10.500	34.448	73.820	73.890	1.018	11.280	1.378	20.300
249	211	10.550	34.612	102.850	102.920	0.856	11.240	0.832	24.800
250	212	10.600	34.776	65.610	65.677	0.952	10.710	1.450	28.000
251	213	10.650	34.941	77.920	77.974	1.304	8.570	1.672	27.200
252	214	10.700	35.105	88.420	88.478	1.361	9.230	1.538	36.200
253	215	10.750	35.269	75.450	75.506	1.496	9.000	1.981	34.000
254	216	10.800	35.433	88.240	88.303	1.442	10.110	1.633	39.800
255	217	10.850	35.597	103.470	103.538	1.239	10.850	1.197	58.000
256	218	10.900	35.761	98.150	98.215	1.041	10.400	1.060	64.000
257	219	10.950	35.925	78.390	78.452	0.786	9.970	1.002	74.600
258	220	11.000	36.089	59.640	59.701	0.773	9.800	1.295	72.000
259	221	11.050	36.253	52.870	52.931	0.588	9.730	1.111	81.000
260	222	11.100	36.417	50.160	50.220	0.461	9.650	0.918	69.100
261	223	11.150	36.581	44.580	44.637	0.379	9.210	0.849	75.600
262	224	11.200	36.745	40.220	40.276	0.474	8.960	1.177	74.900
263	225	11.250	36.909	39.090	39.144	0.590	8.710	1.507	67.600
264	226	11.300	37.073	55.430	55.485	0.620	8.820	1.117	56.500
265	227	11.350	37.237	70.610	70.662	0.761	8.380	1.077	48.700
266	228	11.400	37.401	39.990	40.038	1.473	7.760	3.679	40.900
267	229	11.450	37.565	48.750	48.798	1.397	7.660	2.863	35.000
268	230	11.500	37.729	62.990	63.036	1.185	7.430	1.880	36.900
269	231	11.550	37.893	22.540	22.583	1.024	6.900	4.534	42.700
270	232	11.600	38.057	44.690	44.729	1.052	6.240	2.352	42.300
271	233	11.650	38.221	40.180	40.214	1.119	5.410	2.783	57.200
272	234	11.700	38.385	28.630	28.670	0.901	6.380	3.143	63.200
273	235	11.750	38.549	28.310	28.356	0.799	7.410	2.818	75.700
274	236	11.800	38.713	26.230	26.281	0.722	8.190	2.747	79.800
275	237	11.850	38.877	33.100	33.156	1.081	9.000	3.260	56.800
276	238	11.900	39.042	74.530	74.590	1.403	9.540	1.881	44.100
277	239	11.950	39.206	110.730	110.789	1.930	9.430	1.742	37.100
278	240	12.000	39.370	104.510	104.570	2.479	9.660	2.371	35.400
279	241	12.050	39.534	90.380	90.438	2.587	9.220	2.861	31.400
280	242	12.100	39.698	56.550	56.613	2.332	10.160	4.119	23.900
281	243	12.150	39.862	110.180	110.244	1.997	10.180	1.811	35.600
282	244	12.200	40.026	83.800	83.863	2.038	10.120	2.430	34.100
283	245	12.250	40.190	93.230	93.294	2.246	10.270	2.407	39.000
284	246	12.300	40.354	56.540	56.616	2.224	12.110	3.928	48.700
285	247	12.350	40.518	66.790	66.868	1.923	12.420	2.876	74.700
286	248	12.400	40.682	95.290	95.369	2.140	12.640	2.244	83.000
287	249	12.450	40.846	106.160	106.240	2.280	12.750	2.146	70.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	124.550	124.631	2.160	12.940	1.733	81.200
289	251	12.550	41.174	137.150	137.229	1.874	12.690	1.366	85.400
290	252	12.600	41.338	126.230	126.306	1.589	12.250	1.258	78.500
291	253	12.650	41.502	84.620	84.691	1.799	11.320	2.124	74.300
292	254	12.700	41.666	63.780	63.846	2.110	10.590	3.305	59.500
293	255	12.750	41.830	64.630	64.697	1.969	10.770	3.043	54.800
294	256	12.800	41.994	69.960	70.027	1.913	10.790	2.732	52.800
295	257	12.850	42.158	77.700	77.766	1.803	10.510	2.319	50.200
296	258	12.900	42.322	72.110	72.175	1.993	10.470	2.761	57.200
297	259	12.950	42.486	102.860	102.924	2.275	10.280	2.210	57.800
298	260	13.000	42.650	68.330	68.385	2.086	8.830	3.050	71.500
299	261	13.050	42.814	86.820	86.874	1.902	8.640	2.189	93.900
300	262	13.100	42.978	79.800	79.854	0.821	8.600	1.028	76.500
301	263	13.150	43.143	65.910	65.963	0.729	8.410	1.105	78.500
302	264	13.200	43.307	52.830	52.881	0.938	8.130	1.774	81.600
303	265	13.250	43.471	45.930	45.981	1.405	8.100	3.056	77.600
304	266	13.300	43.635	79.130	79.181	1.239	8.230	1.565	75.200
305	267	13.350	43.799	26.490	26.547	1.294	9.190	4.874	77.600
306	268	13.400	43.963	25.590	25.648	1.177	9.340	4.589	76.000
307	269	13.450	44.127	30.120	30.180	0.873	9.640	2.893	57.700
308	270	13.500	44.291	41.130	41.190	0.828	9.630	2.010	47.900
309	271	13.550	44.455	51.630	51.688	0.777	9.340	1.503	33.800
310	272	13.600	44.619	35.120	35.175	0.753	8.740	2.141	31.700
311	273	13.650	44.783	12.990	13.042	0.922	8.260	7.070	36.100
312	274	13.700	44.947	34.660	34.710	1.147	7.970	3.305	30.900
313	275	13.750	45.111	63.740	63.791	1.246	8.170	1.953	30.600
314	276	13.800	45.275	55.060	55.105	1.883	7.260	3.417	27.800
315	277	13.850	45.439	120.230	120.278	2.220	7.750	1.846	26.100
316	278	13.900	45.603	59.780	59.827	2.333	7.540	3.900	26.500
317	279	13.950	45.767	41.790	41.834	1.977	6.990	4.726	26.700
318	280	14.000	45.931	24.580	24.625	1.197	7.130	4.861	33.600
319	281	14.050	46.095	26.450	26.499	0.875	7.770	3.302	26.500
320	282	14.100	46.259	32.590	32.638	1.029	7.730	3.153	25.100
321	283	14.150	46.423	27.580	27.626	0.710	7.440	2.570	24.900
322	284	14.200	46.587	91.770	91.812	0.705	6.660	0.768	26.800
323	285	14.250	46.751	173.450	173.491	1.525	6.620	0.879	24.100
324	286	14.300	46.915	109.460	109.489	1.511	4.590	1.380	35.800
325	287	14.350	47.079	69.900	69.931	1.503	4.930	2.149	42.000
326	288	14.400	47.244	80.850	80.885	1.182	5.560	1.461	48.900
327	289	14.450	47.408	56.070	56.105	1.027	5.660	1.830	58.200
328	290	14.500	47.572	32.760	32.796	0.920	5.750	2.805	45.800
329	291	14.550	47.736	24.300	24.335	0.732	5.610	3.008	71.500
330	292	14.600	47.900	23.650	23.684	0.580	5.460	2.449	57.200
331	293	14.650	48.064	26.300	26.333	0.698	5.270	2.651	58.700
332	294	14.700	48.228	20.590	20.623	0.704	5.210	3.414	55.200
333	295	14.750	48.392	19.380	19.412	0.797	5.110	4.106	41.400
334	296	14.800	48.556	34.640	34.675	1.252	5.630	3.611	54.300
335	297	14.850	48.720	58.690	58.730	1.262	6.390	2.149	53.200
336	298	14.900	48.884	90.340	90.382	1.292	6.710	1.429	49.500
337	299	14.950	49.048	70.760	70.803	1.275	6.960	1.801	53.500
338	300	15.000	49.212	70.520	70.562	1.378	6.680	1.953	50.700
339	301	15.050	49.376	57.560	57.602	1.622	6.680	2.816	48.300
340	302	15.100	49.540	43.230	43.275	1.819	7.190	4.203	34.200
341	303	15.150	49.704	35.130	35.175	1.569	7.170	4.461	42.500
342	304	15.200	49.868	35.950	35.995	1.179	7.190	3.275	45.900
343	305	15.250	50.032	24.330	24.373	0.895	6.860	3.672	39.600
344	306	15.300	50.196	60.500	60.542	1.151	6.660	1.901	44.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	36.960	37.000	1.065	6.390	2.878	50.400
346	308	15.400	50.524	42.890	42.929	0.802	6.290	1.868	61.400
347	309	15.450	50.688	55.050	55.094	0.771	7.090	1.399	69.100
348	310	15.500	50.852	63.070	63.113	0.691	6.960	1.095	75.200
349	311	15.550	51.016	59.910	59.954	0.591	7.050	0.986	72.200
350	312	15.600	51.180	54.510	54.554	0.647	6.970	1.186	80.700
351	313	15.650	51.345	47.210	47.252	0.801	6.800	1.695	75.800
352	314	15.700	51.509	48.110	48.153	0.927	6.950	1.925	80.000
353	315	15.750	51.673	45.340	45.386	0.905	7.380	1.994	69.400
354	316	15.800	51.837	59.340	59.386	0.872	7.290	1.468	79.500
355	317	15.850	52.001	57.990	58.034	1.105	7.070	1.904	73.500
356	318	15.900	52.165	79.090	79.135	1.071	7.140	1.353	71.600
357	319	15.950	52.329	133.160	133.208	1.560	7.660	1.171	77.700
358	320	16.000	52.493	148.590	148.638	1.346	7.630	0.906	69.400
359	321	16.050	52.657	133.490	133.537	1.356	7.490	1.015	62.200
360	322	16.100	52.821	110.220	110.266	1.254	7.340	1.137	62.700
361	323	16.150	52.985	85.200	85.245	0.956	7.150	1.121	71.700
362	324	16.200	53.149	61.730	61.773	0.924	6.920	1.496	76.000
363	325	16.250	53.313	35.770	35.812	0.838	6.740	2.340	49.100
364	326	16.300	53.477	30.510	30.553	1.225	6.860	4.009	41.900
365	327	16.350	53.641	34.480	34.523	1.360	6.850	3.939	31.200
366	328	16.400	53.805	52.400	52.445	1.524	7.170	2.906	27.400
367	329	16.450	53.969	51.160	51.205	1.622	7.200	3.168	22.800
368	330	16.500	54.133	47.880	47.924	1.335	6.990	2.786	22.000
369	331	16.550	54.297	46.410	46.454	1.402	7.000	3.018	24.500
370	332	16.600	54.461	47.540	47.584	1.431	7.110	3.007	21.200
371	333	16.650	54.625	35.750	35.790	1.280	6.480	3.576	27.300
372	334	16.700	54.789	22.740	22.779	1.036	6.190	4.548	14.200
373	335	16.750	54.953	30.560	30.598	0.894	6.160	2.922	16.200
374	336	16.800	55.117	28.680	28.722	0.982	6.690	3.419	18.000
375	337	16.850	55.281	27.110	27.153	0.944	6.920	3.477	11.600
376	338	16.900	55.446	36.660	36.704	0.675	7.030	1.839	19.800
377	339	16.950	55.610	20.960	21.002	0.787	6.790	3.747	23.200
378	340	17.000	55.774	26.120	26.160	0.722	6.380	2.760	30.900
379	341	17.050	55.938	28.480	28.519	0.922	6.250	3.233	42.800
380	342	17.100	56.102	42.520	42.559	1.038	6.270	2.439	45.900
381	343	17.150	56.266	48.340	48.381	1.246	6.500	2.575	54.500
382	344	17.200	56.430	56.960	57.002	1.977	6.680	3.468	66.800
383	345	17.250	56.594	44.950	44.993	1.673	6.890	3.718	52.800
384	346	17.300	56.758	82.660	82.707	2.293	7.580	2.772	50.600
385	347	17.350	56.922	199.890	199.947	2.928	9.200	1.464	54.300
386	348	17.400	57.086	234.160	234.219	3.593	9.420	1.534	66.900
387	349	17.450	57.250	260.640	260.700	3.792	9.680	1.455	77.700
388	350	17.500	57.414	248.720	248.783	4.130	10.170	1.660	72.600
389	351	17.550	57.578	216.810	216.877	3.716	10.790	1.713	68.800
390	352	17.600	57.742	192.530	192.598	3.566	10.900	1.852	70.900
391	353	17.650	57.906	156.030	156.090	3.233	9.540	2.071	60.400
392	354	17.700	58.070	131.010	131.064	2.982	8.660	2.275	71.000
393	355	17.750	58.234	85.720	85.777	2.652	9.100	3.092	50.600
394	356	17.800	58.398	82.640	82.697	3.045	9.100	3.682	49.900
395	357	17.850	58.562	80.150	80.210	3.099	9.540	3.864	51.200
396	358	17.900	58.726	61.870	61.941	3.026	11.410	4.885	55.600
397	359	17.950	58.890	68.320	68.396	2.601	12.110	3.803	62.000
398	360	18.000	59.054	66.920	66.993	1.736	11.630	2.591	72.300
399	361	18.050	59.218	59.880	59.951	1.735	11.450	2.894	74.200
400	362	18.100	59.382	51.920	51.990	1.491	11.290	2.868	84.200
401	363	18.150	59.547	40.760	40.830	1.259	11.240	3.084	85.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	33.260	33.329	1.055	11.130	3.165	75.200
403	365	18.250	59.875	24.940	25.008	0.737	10.920	2.947	81.500
404	366	18.300	60.039	16.150	16.216	0.536	10.580	3.305	82.200
405	367	18.350	60.203	13.400	13.465	0.570	10.360	4.233	74.300
406	368	18.400	60.367	53.420	53.482	0.875	9.970	1.636	70.700
407	369	18.450	60.531	37.770	37.830	0.968	9.610	2.559	69.400
408	370	18.500	60.695	20.230	20.289	0.838	9.390	4.130	70.300
409	371	18.550	60.859	15.480	15.537	0.430	9.060	2.768	82.500
410	372	18.600	61.023	20.420	20.480	0.367	9.670	1.792	64.400
411	373	18.650	61.187	27.610	27.657	0.573	7.460	2.072	85.700
412	374	18.700	61.351	32.480	32.527	0.686	7.570	2.109	85.400
413	375	18.750	61.515	33.730	33.777	0.568	7.480	1.682	73.000
414	376	18.800	61.679	38.430	38.477	0.606	7.540	1.575	68.700
415	377	18.850	61.843	41.110	41.155	0.697	7.250	1.694	64.000
416	378	18.900	62.007	35.240	35.285	0.880	7.280	2.494	48.300
417	379	18.950	62.171	30.100	30.145	1.417	7.200	4.701	35.300
418	380	19.000	62.335	40.350	40.396	2.045	7.410	5.062	29.000
419	381	19.050	62.499	113.550	113.595	2.022	7.280	1.780	25.000
420	382	19.100	62.663	135.870	135.901	2.388	4.940	1.757	19.600
421	383	19.150	62.827	70.110	70.129	2.352	3.070	3.354	14.700
422	384	19.200	62.991	45.870	45.885	1.828	2.440	3.984	10.800
423	385	19.250	63.155	40.000	40.018	1.469	2.830	3.671	26.500
424	386	19.300	63.319	59.350	59.367	1.513	2.800	2.549	16.300
425	387	19.350	63.483	58.880	58.899	1.270	3.030	2.156	7.900
426	388	19.400	63.648	31.780	31.804	1.458	3.850	4.584	10.300
427	389	19.450	63.812	64.640	64.663	1.243	3.750	1.922	14.700
428	390	19.500	63.976	28.890	28.922	1.170	5.070	4.045	18.800
429	391	19.550	64.140	18.950	18.986	1.080	5.750	5.688	18.200
430	392	19.600	64.304	40.820	40.857	0.990	5.920	2.423	26.200
431	393	19.650	64.468	35.570	35.610	1.006	6.400	2.825	28.600
432	394	19.700	64.632	24.540	24.581	0.986	6.580	4.011	27.100
433	395	19.750	64.796	32.250	32.292	0.976	6.670	3.022	34.400
434	396	19.800	64.960	19.140	19.182	0.849	6.660	4.426	41.700
435	397	19.850	65.124	53.100	53.143	0.999	6.810	1.880	59.200
436	398	19.900	65.288	79.590	79.631	1.047	6.580	1.315	71.000
437	399	19.950	65.452	91.160	91.201	1.323	6.540	1.451	75.000
438	400	20.000	65.616	92.860	92.901	1.399	6.610	1.506	81.200
439	401	20.050	65.780	85.540	85.581	1.791	6.620	2.093	82.800
440	402	20.100	65.944	81.850	81.892	1.716	6.650	2.095	73.600
441	403	20.150	66.108	93.630	93.673	1.614	6.830	1.723	74.200
442	404	20.200	66.272	82.690	82.732	1.592	6.770	1.924	72.500
443	405	20.250	66.436	69.860	69.901	1.194	6.600	1.708	68.700
444	406	20.300	66.600	58.510	58.551	0.999	6.490	1.706	60.200
445	407	20.350	66.764	51.710	51.751	0.885	6.500	1.710	55.800
446	408	20.400	66.928	51.070	51.108	1.088	6.160	2.129	45.400
447	409	20.450	67.092	71.080	71.120	1.450	6.330	2.039	36.800
448	410	20.500	67.256	65.200	65.240	2.126	6.470	3.259	28.200
449	411	20.550	67.420	40.660	40.703	2.016	6.820	4.953	30.700
450	412	20.600	67.584	28.270	28.317	2.013	7.530	7.109	29.200
451	413	20.650	67.749	41.410	41.457	1.534	7.530	3.700	23.700
452	414	20.700	67.913	57.200	57.247	1.569	7.550	2.741	17.800
453	415	20.750	68.077	41.290	41.339	1.816	7.830	4.393	15.400
454	416	20.800	68.241	45.660	45.711	1.906	8.110	4.170	8.700
455	417	20.850	68.405	63.450	63.503	2.090	8.410	3.291	12.600
456	418	20.900	68.569	81.720	81.772	2.142	8.250	2.619	7.900
457	419	20.950	68.733	125.670	125.722	3.336	8.370	2.653	9.700
458	420	21.000	68.897	151.240	151.295	4.357	8.840	2.880	11.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	77.730	77.785	4.159	8.800	5.347	10.700
460	422	21.100	69.225	48.810	48.865	3.197	8.760	6.543	15.300
461	423	21.150	69.389	50.550	50.608	2.276	9.300	4.497	18.100
462	424	21.200	69.553	46.970	47.027	2.451	9.190	5.212	16.700
463	425	21.250	69.717	56.320	56.385	2.175	10.360	3.857	15.400
464	426	21.300	69.881	41.900	41.976	1.705	12.130	4.062	24.000
465	427	21.350	70.045	41.240	41.320	1.373	12.890	3.323	30.000
466	428	21.400	70.209	31.980	32.060	1.136	12.840	3.543	46.900
467	429	21.450	70.373	25.820	25.900	0.866	12.780	3.344	54.800
468	430	21.500	70.537	15.090	15.166	0.721	12.220	4.754	56.200
469	431	21.550	70.701	12.250	12.412	0.653	26.020	5.261	66.300
470	432	21.600	70.865	27.410	27.581	0.834	27.450	3.024	64.300
471	433	21.650	71.029	25.520	25.686	1.315	26.580	5.120	53.900
472	434	21.700	71.193	60.670	60.846	1.532	28.120	2.518	45.700
473	435	21.750	71.357	117.660	117.837	2.706	28.280	2.296	30.700
474	436	21.800	71.521	147.340	147.508	3.176	26.950	2.153	22.200
475	437	21.850	71.685	147.210	147.366	4.192	25.050	2.845	19.100
476	438	21.900	71.850	179.470	179.622	5.370	24.350	2.990	19.300
477	439	21.950	72.014	145.150	145.308	4.891	25.350	3.366	15.500
478	440	22.000	72.178	62.460	62.610	3.660	24.050	5.846	18.800
479	441	22.050	72.342	39.080	39.205	1.702	20.070	4.341	23.200
480	442	22.100	72.506	37.720	37.838	1.464	18.910	3.869	22.900
481	443	22.150	72.670	32.720	32.839	1.214	19.110	3.697	28.800
482	444	22.200	72.834	61.570	61.688	1.478	18.940	2.396	23.900
483	445	22.250	72.998	65.170	65.288	1.852	18.850	2.837	26.900
484	446	22.300	73.162	61.990	62.108	1.872	18.900	3.014	21.400
485	447	22.350	73.326	49.630	49.748	1.559	18.980	3.134	19.900
486	448	22.400	73.490	33.810	33.929	1.472	19.110	4.338	23.000
487	449	22.450	73.654	36.720	36.841	1.400	19.410	3.800	13.400
488	450	22.500	73.818	56.540	56.659	1.275	19.130	2.250	13.000
489	451	22.550	73.982	83.970	84.086	1.971	18.660	2.344	14.200
490	452	22.600	74.146	100.420	100.535	2.583	18.460	2.569	10.300
491	453	22.650	74.310	107.480	107.575	2.315	15.170	2.152	12.900
492	454	22.700	74.474	76.480	76.575	2.003	15.280	2.616	13.000
493	455	22.750	74.638	127.950	128.059	3.890	17.440	3.038	11.700
494	456	22.800	74.802	153.210	153.327	3.693	18.810	2.409	15.000
495	457	22.850	74.966	55.660	55.771	3.517	17.770	6.306	21.900
496	458	22.900	75.130	61.890	62.016	2.346	20.110	3.783	27.600
497	459	22.950	75.294	102.130	102.259	1.953	20.640	1.910	28.900
498	460	23.000	75.458	41.090	41.206	1.852	18.590	4.494	49.900
499	461	23.050	75.622	55.810	55.923	1.467	18.070	2.623	42.900
500	462	23.100	75.786	99.990	100.104	2.053	18.210	2.051	47.900
501	463	23.150	75.951	83.550	83.658	2.493	17.320	2.980	57.300
502	464	23.200	76.115	61.870	61.980	1.989	17.620	3.209	71.600
503	465	23.250	76.279	76.690	76.817	1.875	20.420	2.441	93.100
504	466	23.300	76.443	70.110	70.246	1.627	21.860	2.316	96.000
505	467	23.350	76.607	49.650	49.781	1.734	21.060	3.483	86.500
506	468	23.400	76.771	43.450	43.583	1.592	21.320	3.653	102.800
507	469	23.450	76.935	37.540	37.673	1.281	21.360	3.400	97.100
508	470	23.500	77.099	28.500	28.631	1.073	20.940	3.748	107.300
509	471	23.550	77.263	22.600	22.728	0.892	20.570	3.925	106.000
510	472	23.600	77.427	22.590	22.711	1.112	19.400	4.896	104.300
511	473	23.650	77.591	21.460	21.565	0.945	16.850	4.382	116.700
512	474	23.700	77.755	33.620	33.717	0.878	15.530	2.604	139.100
513	475	23.750	77.919	23.730	23.827	0.801	15.610	3.362	130.100
514	476	23.800	78.083	20.770	20.866	0.708	15.390	3.393	119.100
515	477	23.850	78.247	21.430	21.523	0.633	14.880	2.941	89.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	19.060	19.150	0.580	14.490	3.029	89.100
517	479	23.950	78.575	30.810	30.900	0.494	14.390	1.599	98.800
518	480	24.000	78.739	47.670	47.759	0.591	14.220	1.237	124.900
519	481	24.050	78.903	69.990	70.078	0.757	14.140	1.080	138.500
520	482	24.100	79.067	74.380	74.469	0.983	14.270	1.320	142.600
521	483	24.150	79.231	55.260	55.349	1.191	14.210	2.152	119.700
522	484	24.200	79.395	45.090	45.176	1.290	13.740	2.856	94.500
523	485	24.250	79.559	55.090	55.171	1.661	13.010	3.011	103.900
524	486	24.300	79.723	60.080	60.159	1.512	12.590	2.513	118.700
525	487	24.350	79.887	59.320	59.401	1.394	12.940	2.347	151.800
526	488	24.400	80.052	63.110	63.193	1.218	13.270	1.927	195.300
527	489	24.450	80.216	50.110	50.200	1.595	14.360	3.177	244.300
528	490	24.500	80.380	62.900	62.990	1.697	14.370	2.694	322.000
529	491	24.550	80.544	64.250	64.342	2.060	14.680	3.202	431.600
530	492	24.600	80.708	64.210	64.299	2.011	14.320	3.128	568.600
531	493	24.650	80.872	58.080	58.167	1.681	13.860	2.890	775.300
532	494	24.700	81.036	80.200	80.290	2.512	14.430	3.129	1023.800
533	495	24.750	81.200	54.990	55.082	2.845	14.790	5.165	1498.500
534	496	24.800	81.364	49.790	49.879	2.767	14.200	5.547	2005.900
535	497	24.850	81.528	43.590	43.679	1.796	14.300	4.112	2534.000
536	498	24.900	81.692	60.720	60.807	2.204	13.960	3.625	3672.500
537	499	24.950	81.856	76.210	76.302	2.431	14.770	3.186	5907.000
538	500	25.000	82.020	136.070	136.170	3.216	15.950	2.362	7677.600
539	501	25.050	82.184	114.570	114.673	4.299	16.490	3.749	9330.200
540	502	25.100	82.348	93.150	93.249	3.259	15.830	3.495	11104.700
541	503	25.150	82.512	38.090	38.199	2.397	17.530	6.275	12260.000
542	504	25.200	82.676	38.560	38.671	0.954	17.850	2.467	12894.200
543	505	25.250	82.840	30.150	30.262	0.704	17.870	2.326	12926.100
544	506	25.300	83.004	26.890	27.004	0.547	18.270	2.026	12713.300
545	507	25.350	83.168	26.640	26.756	0.721	18.550	2.695	12293.300
546	508	25.400	83.332	28.300	28.416	1.052	18.650	3.702	11205.100
547	509	25.450	83.496	30.380	30.496	2.145	18.530	7.034	9668.900
548	510	25.500	83.660	44.510	44.624	2.495	18.340	5.591	8159.400
549	511	25.550	83.824	110.170	110.291	2.051	19.380	1.860	7071.400
550	512	25.600	83.988	79.370	79.480	1.785	17.570	2.246	5754.300
551	513	25.650	84.153	29.890	29.969	0.929	12.730	3.100	4580.300
552	514	25.700	84.317	21.400	21.487	0.700	14.010	3.258	3578.800
553	515	25.750	84.481	22.000	22.088	0.670	14.080	3.033	2893.300
554	516	25.800	84.645	29.820	29.905	1.820	13.680	6.086	2429.100
555	517	25.850	84.809	52.130	52.215	4.764	13.620	9.124	2058.800
556	518	25.900	84.973	134.000	134.074	4.272	11.820	3.186	1772.800
557	519	25.950	85.137	44.620	44.689	4.714	11.020	10.549	1443.600
558	520	26.000	85.301	62.950	63.032	3.403	13.210	5.399	1160.000
559	521	26.050	85.465	44.800	44.885	1.946	13.580	4.336	0.000
560	522	26.100	85.629	28.370	28.456	2.008	13.790	7.056	0.000
561	523	26.150	85.793	83.830	83.922	1.972	14.750	2.350	0.000
562	524	26.200	85.957	44.460	44.552	1.743	14.690	3.912	0.000
563	525	26.250	86.121	47.900	47.991	2.355	14.550	4.907	0.000
564	526	26.300	86.285	69.410	69.495	2.048	13.640	2.947	0.000
565	527	26.350	86.449	27.980	28.056	0.993	12.240	3.539	0.000
566	528	26.400	86.613	54.120	54.198	1.109	12.440	2.046	0.000
567	529	26.450	86.777	52.680	52.756	0.846	12.120	1.604	0.000
568	530	26.500	86.941	21.540	21.610	1.081	11.290	5.002	0.000
569	531	26.550	87.105	32.950	33.020	0.570	11.170	1.726	0.000
570	532	26.600	87.269	22.600	22.653	0.734	8.430	3.240	0.000
571	533	26.650	87.433	28.300	28.350	0.638	8.020	2.250	0.000
572	534	26.700	87.597	20.390	20.440	0.802	7.970	3.924	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
573	535	26.750	87.761	21.570	21.620	0.718	8.060	3.321	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272394				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-08A				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-18-2015				
14		CPT Time:			08:24				
15		CPT File:			15-53039_GP1D-08A.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722137.423				
31		Northing / Lat:			4294238.903				
32		Elevation:			157.590				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	5.560	5.563	0.013	0.550	0.234	19.100
40	2	0.100	0.328	37.250	37.271	0.048	3.310	0.129	23.800
41	3	0.150	0.492	43.800	43.809	0.063	1.440	0.144	18.400
42	4	0.200	0.656	47.840	47.871	0.107	4.930	0.224	22.200
43	5	0.250	0.820	46.500	46.511	0.108	1.830	0.232	20.600
44	6	0.300	0.984	40.680	40.726	0.217	7.410	0.533	26.200
45	7	0.350	1.148	36.620	36.608	0.093	-1.970	0.254	27.300
46	8	0.400	1.312	33.610	33.621	0.155	1.720	0.461	37.400
47	9	0.450	1.476	32.390	32.421	0.260	5.010	0.802	42.900
48	10	0.500	1.640	25.170	25.200	0.291	4.860	1.155	58.900
49	11	0.550	1.804	8.140	8.208	0.309	10.840	3.765	69.500
50	12	0.600	1.968	9.440	9.474	0.247	5.450	2.607	84.800
51	13	0.650	2.133	10.840	10.851	0.302	1.750	2.783	92.700
52	14	0.700	2.297	18.560	18.549	0.360	-1.730	1.941	87.900
53	15	0.750	2.461	26.010	25.977	0.437	-5.320	1.682	101.600
54	16	0.800	2.625	31.400	31.365	0.454	-5.550	1.447	105.300
55	17	0.850	2.789	39.480	39.432	0.514	-7.630	1.303	98.800
56	18	0.900	2.953	39.880	39.822	0.599	-9.340	1.504	90.500
57	19	0.950	3.117	38.400	38.343	0.644	-9.140	1.680	95.800
58	20	1.000	3.281	37.120	37.041	0.666	-12.620	1.798	82.400
59	21	1.050	3.445	28.770	28.655	0.733	-18.430	2.558	101.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	24.070	23.953	0.781	-18.760	3.261	93.600
61	23	1.150	3.773	30.730	30.616	0.620	-18.240	2.025	86.900
62	24	1.200	3.937	28.500	28.384	0.686	-18.650	2.417	100.100
63	25	1.250	4.101	18.950	18.830	0.715	-19.270	3.797	78.100
64	26	1.300	4.265	18.140	18.020	0.711	-19.160	3.946	90.300
65	27	1.350	4.429	22.460	22.347	0.613	-18.050	2.743	74.700
66	28	1.400	4.593	24.160	24.049	0.689	-17.790	2.865	67.700
67	29	1.450	4.757	29.690	29.599	0.644	-14.530	2.176	59.100
68	30	1.500	4.921	61.460	61.456	0.605	-0.570	0.984	43.700
69	31	1.550	5.085	94.850	94.851	0.959	0.100	1.011	39.400
70	32	1.600	5.249	31.980	32.001	1.142	3.410	3.569	27.400
71	33	1.650	5.413	40.550	40.550	0.894	-0.040	2.205	27.800
72	34	1.700	5.577	45.020	45.073	0.897	8.520	1.990	28.400
73	35	1.750	5.741	23.780	23.757	0.635	-3.620	2.673	26.300
74	36	1.800	5.905	20.400	20.412	0.778	1.860	3.812	31.100
75	37	1.850	6.069	36.070	36.130	0.604	9.630	1.672	28.800
76	38	1.900	6.234	27.830	27.852	0.832	3.600	2.987	33.300
77	39	1.950	6.398	22.770	22.778	0.691	1.280	3.034	35.300
78	40	2.000	6.562	36.240	36.259	0.467	3.030	1.288	45.100
79	41	2.050	6.726	40.390	40.408	0.646	2.900	1.599	47.000
80	42	2.100	6.890	25.160	25.201	0.539	6.640	2.139	56.900
81	43	2.150	7.054	17.600	17.587	0.596	-2.020	3.389	81.200
82	44	2.200	7.218	21.170	21.127	0.433	-6.950	2.050	87.500
83	45	2.250	7.382	25.130	25.054	0.507	-12.160	2.024	89.600
84	46	2.300	7.546	22.840	22.748	0.587	-14.670	2.580	91.300
85	47	2.350	7.710	22.050	21.949	0.575	-16.120	2.620	86.100
86	48	2.400	7.874	22.300	22.197	0.636	-16.430	2.865	96.500
87	49	2.450	8.038	26.760	26.658	0.637	-16.360	2.390	105.000
88	50	2.500	8.202	26.680	26.571	0.643	-17.500	2.420	97.800
89	51	2.550	8.366	17.500	17.369	0.658	-21.030	3.788	101.000
90	52	2.600	8.530	14.730	14.601	0.497	-20.630	3.404	92.500
91	53	2.650	8.694	11.780	11.653	0.382	-20.330	3.278	99.100
92	54	2.700	8.858	10.110	9.986	0.280	-19.840	2.804	94.100
93	55	2.750	9.022	9.430	9.309	0.243	-19.460	2.611	94.400
94	56	2.800	9.186	8.480	8.402	0.255	-12.470	3.035	90.400
95	57	2.850	9.350	8.870	8.802	0.320	-10.960	3.636	81.800
96	58	2.900	9.514	17.740	17.675	0.300	-10.370	1.697	86.800
97	59	2.950	9.678	7.940	7.903	0.333	-6.000	4.214	92.700
98	60	3.000	9.842	10.900	10.865	0.366	-5.610	3.369	85.900
99	61	3.050	10.006	11.210	11.188	0.409	-3.510	3.656	70.500
100	62	3.100	10.170	10.600	10.571	0.634	-4.680	5.998	61.000
101	63	3.150	10.335	34.530	34.503	0.882	-4.310	2.556	44.200
102	64	3.200	10.499	83.720	83.722	1.226	0.350	1.464	39.700
103	65	3.250	10.663	67.250	67.265	1.722	2.480	2.560	21.400
104	66	3.300	10.827	69.430	69.431	1.934	0.200	2.785	23.600
105	67	3.350	10.991	37.790	37.788	1.311	-0.300	3.469	25.700
106	68	3.400	11.155	31.980	32.007	1.104	4.300	3.449	18.800
107	69	3.450	11.319	41.830	41.831	1.032	0.220	2.467	20.600
108	70	3.500	11.483	29.860	29.878	0.991	2.940	3.317	17.600
109	71	3.550	11.647	30.350	30.355	1.117	0.830	3.680	19.600
110	72	3.600	11.811	26.860	26.851	1.073	-1.460	3.996	10.600
111	73	3.650	11.975	51.150	51.159	1.012	1.480	1.978	17.700
112	74	3.700	12.139	12.530	12.531	1.132	0.230	9.033	16.800
113	75	3.750	12.303	19.120	19.166	0.985	7.360	5.139	21.500
114	76	3.800	12.467	43.580	43.593	1.048	2.040	2.404	15.600
115	77	3.850	12.631	55.370	55.418	1.113	7.690	2.008	23.400
116	78	3.900	12.795	103.070	103.073	1.054	0.420	1.023	17.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	117.210	117.270	1.396	9.580	1.190	22.700
118	80	4.000	13.123	75.840	75.880	1.632	6.400	2.151	13.600
119	81	4.050	13.287	62.550	62.553	2.310	0.550	3.693	8.500
120	82	4.100	13.451	47.110	47.125	2.461	2.350	5.222	16.900
121	83	4.150	13.615	32.060	32.049	1.921	-1.770	5.994	20.500
122	84	4.200	13.779	43.520	43.620	1.396	15.980	3.200	17.400
123	85	4.250	13.943	56.310	56.354	1.426	6.980	2.530	11.400
124	86	4.300	14.107	131.750	131.802	0.618	8.400	0.469	11.900
125	87	4.350	14.271	144.580	144.620	0.512	6.370	0.354	16.700
126	88	4.400	14.436	121.140	121.195	0.567	8.860	0.468	23.100
127	89	4.450	14.600	82.610	82.617	0.329	1.120	0.398	30.500
128	90	4.500	14.764	108.110	108.102	0.600	-1.350	0.555	35.000
129	91	4.550	14.928	150.350	150.417	0.670	10.760	0.445	30.700
130	92	4.600	15.092	82.600	82.638	0.628	6.130	0.760	32.200
131	93	4.650	15.256	74.350	74.376	0.587	4.190	0.789	42.800
132	94	4.700	15.420	53.760	53.918	0.695	25.230	1.289	48.900
133	95	4.750	15.584	57.680	57.745	0.727	10.360	1.259	52.800
134	96	4.800	15.748	54.500	54.528	0.405	4.470	0.743	59.900
135	97	4.850	15.912	107.680	107.686	0.675	0.930	0.627	36.800
136	98	4.900	16.076	100.020	100.062	0.760	6.760	0.760	46.700
137	99	4.950	16.240	73.580	73.628	0.926	7.670	1.258	38.900
138	100	5.000	16.404	138.040	138.062	1.201	3.530	0.870	29.400
139	101	5.050	16.568	168.020	168.176	1.132	24.980	0.673	33.000
140	102	5.100	16.732	128.930	128.932	1.287	0.350	0.998	44.000
141	103	5.150	16.896	70.400	70.461	0.557	9.820	0.791	48.700
142	104	5.200	17.060	40.290	40.384	1.113	15.050	2.756	57.000
143	105	5.250	17.224	36.550	36.584	0.843	5.480	2.304	57.300
144	106	5.300	17.388	90.280	90.295	0.441	2.350	0.488	64.200
145	107	5.350	17.552	59.830	59.909	0.327	12.670	0.546	72.800
146	108	5.400	17.716	44.490	44.533	0.773	6.850	1.736	70.500
147	109	5.450	17.880	78.070	78.136	0.721	10.540	0.923	50.100
148	110	5.500	18.044	150.880	150.905	1.258	4.050	0.834	51.900
149	111	5.550	18.208	73.350	73.395	1.369	7.200	1.865	56.200
150	112	5.600	18.372	69.780	69.848	1.089	10.890	1.559	46.000
151	113	5.650	18.537	78.490	78.529	0.628	6.300	0.800	30.200
152	114	5.700	18.701	97.720	97.753	0.401	5.290	0.410	26.500
153	115	5.750	18.865	87.430	87.462	0.417	5.170	0.477	23.400
154	116	5.800	19.029	98.060	98.079	0.388	3.090	0.396	22.000
155	117	5.850	19.193	142.270	142.296	0.447	4.100	0.314	19.800
156	118	5.900	19.357	127.830	127.847	0.655	2.670	0.512	19.200
157	119	5.950	19.521	149.650	149.698	0.930	7.630	0.621	19.000
158	120	6.000	19.685	189.330	189.339	1.125	1.480	0.594	16.400
159	121	6.050	19.849	188.360	188.358	0.872	-0.370	0.463	14.000
160	122	6.100	20.013	182.500	182.515	0.970	2.420	0.531	16.300
161	123	6.150	20.177	156.600	156.626	1.512	4.110	0.965	19.000
162	124	6.200	20.341	135.550	135.555	1.142	0.840	0.842	17.800
163	125	6.250	20.505	160.710	160.726	1.410	2.600	0.877	14.000
164	126	6.300	20.669	171.870	171.879	1.653	1.450	0.962	11.900
165	127	6.350	20.833	188.630	188.643	0.946	2.070	0.501	9.000
166	128	6.400	20.997	217.590	217.632	1.495	6.700	0.687	12.700
167	129	6.450	21.161	170.630	170.667	0.790	5.910	0.463	12.100
168	130	6.500	21.325	217.400	217.462	1.905	9.980	0.876	16.800
169	131	6.550	21.489	250.010	250.055	1.220	7.140	0.488	15.000
170	132	6.600	21.653	280.890	280.936	1.369	7.390	0.487	12.900
171	133	6.650	21.817	231.830	231.884	1.413	8.660	0.609	13.700
172	134	6.700	21.981	184.340	184.362	0.397	3.500	0.215	14.400
173	135	6.750	22.145	325.490	325.531	0.365	6.570	0.112	8.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	107.640	107.646	0.937	0.980	0.870	12.600
175	137	6.850	22.473	76.100	76.113	0.652	2.030	0.857	12.100
176	138	6.900	22.638	66.510	66.512	0.226	0.330	0.340	12.400
177	139	6.950	22.802	80.890	80.892	0.480	0.270	0.593	14.200
178	140	7.000	22.966	78.230	78.235	0.337	0.850	0.431	12.500
179	141	7.050	23.130	79.550	79.557	0.389	1.100	0.489	13.500
180	142	7.100	23.294	96.140	96.167	0.566	4.370	0.589	15.100
181	143	7.150	23.458	76.800	76.820	0.638	3.270	0.831	18.400
182	144	7.200	23.622	68.620	68.621	0.834	0.140	1.215	13.800
183	145	7.250	23.786	54.640	54.657	0.694	2.800	1.270	17.000
184	146	7.300	23.950	173.600	173.629	0.235	4.610	0.135	17.200
185	147	7.350	24.114	118.340	118.417	0.512	12.330	0.432	14.300
186	148	7.400	24.278	103.350	103.340	0.407	-1.600	0.394	9.900
187	149	7.450	24.442	103.040	103.066	0.816	4.210	0.792	12.100
188	150	7.500	24.606	84.910	84.968	0.776	9.310	0.913	20.600
189	151	7.550	24.770	91.200	91.227	0.677	4.330	0.742	12.000
190	152	7.600	24.934	65.470	65.466	0.706	-0.620	1.078	17.500
191	153	7.650	25.098	129.820	129.855	0.764	5.560	0.588	19.400
192	154	7.700	25.262	70.380	70.386	0.814	0.950	1.156	18.100
193	155	7.750	25.426	98.180	98.175	0.519	-0.840	0.529	19.500
194	156	7.800	25.590	107.030	107.023	0.220	-1.160	0.206	19.300
195	157	7.850	25.754	99.180	99.177	1.501	-0.410	1.513	24.600
196	158	7.900	25.918	111.700	111.702	0.596	0.250	0.534	26.000
197	159	7.950	26.082	123.880	123.917	0.236	5.900	0.190	25.000
198	160	8.000	26.246	96.240	96.250	0.806	1.540	0.837	18.700
199	161	8.050	26.410	166.910	166.915	0.219	0.830	0.131	17.800
200	162	8.100	26.574	218.540	218.562	0.414	3.500	0.189	24.700
201	163	8.150	26.739	121.520	121.527	0.540	1.070	0.444	17.400
202	164	8.200	26.903	98.750	98.790	0.840	6.380	0.850	20.700
203	165	8.250	27.067	108.130	108.254	1.704	19.890	1.574	15.400
204	166	8.300	27.231	119.060	119.078	1.214	2.960	1.019	14.900
205	167	8.350	27.395	120.070	120.071	0.630	0.120	0.525	17.100
206	168	8.400	27.559	71.500	71.600	0.907	16.060	1.267	17.700
207	169	8.450	27.723	116.290	116.291	0.542	0.090	0.466	12.500
208	170	8.500	27.887	92.560	92.558	0.411	-0.300	0.444	24.500
209	171	8.550	28.051	51.540	51.535	0.575	-0.860	1.116	25.900
210	172	8.600	28.215	51.680	51.678	0.346	-0.300	0.670	23.400
211	173	8.650	28.379	60.950	60.970	0.216	3.220	0.354	24.800
212	174	8.700	28.543	55.200	55.208	0.140	1.260	0.254	28.800
213	175	8.750	28.707	39.060	39.047	0.281	-2.050	0.720	36.300
214	176	8.800	28.871	58.030	58.024	0.237	-1.010	0.408	38.900
215	177	8.850	29.035	56.090	56.143	0.255	8.410	0.454	51.300
216	178	8.900	29.199	56.450	56.479	0.103	4.710	0.182	52.100
217	179	8.950	29.363	52.070	52.062	0.286	-1.310	0.549	80.300
218	180	9.000	29.527	41.710	41.716	0.221	1.020	0.530	73.500
219	181	9.050	29.691	36.040	36.061	0.342	3.420	0.948	84.000
220	182	9.100	29.855	37.820	37.851	0.456	4.900	1.205	83.100
221	183	9.150	30.019	41.240	41.277	0.516	5.970	1.250	73.200
222	184	9.200	30.183	47.030	47.061	0.541	5.030	1.150	87.500
223	185	9.250	30.347	59.350	59.401	0.476	8.210	0.801	72.900
224	186	9.300	30.511	86.580	86.617	0.342	5.950	0.395	78.800
225	187	9.350	30.675	55.320	55.366	0.909	7.370	1.642	60.100
226	188	9.400	30.840	95.180	95.208	0.894	4.470	0.939	60.300
227	189	9.450	31.004	181.070	181.082	0.907	1.910	0.501	54.300
228	190	9.500	31.168	85.920	85.920	1.138	-0.020	1.324	49.100
229	191	9.550	31.332	70.840	70.875	0.749	5.670	1.057	67.100
230	192	9.600	31.496	68.200	68.237	0.951	5.930	1.394	71.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	71.120	71.166	1.057	7.290	1.485	69.200
232	194	9.700	31.824	74.860	74.908	0.976	7.640	1.303	71.400
233	195	9.750	31.988	75.140	75.200	1.119	9.580	1.488	77.600
234	196	9.800	32.152	71.760	71.790	1.386	4.880	1.931	65.200
235	197	9.850	32.316	76.860	76.891	1.282	4.990	1.667	55.400
236	198	9.900	32.480	94.680	94.724	0.964	7.000	1.018	56.000
237	199	9.950	32.644	84.680	84.723	0.838	6.810	0.989	36.600
238	200	10.000	32.808	85.670	85.682	0.924	1.860	1.078	37.200
239	201	10.050	32.972	140.220	140.233	0.832	2.030	0.593	35.900
240	202	10.100	33.136	130.980	131.015	0.964	5.550	0.736	31.900
241	203	10.150	33.300	117.210	117.238	0.992	4.550	0.846	23.200
242	204	10.200	33.464	101.560	101.589	1.449	4.590	1.426	25.400
243	205	10.250	33.628	77.640	77.735	1.228	15.140	1.580	23.500
244	206	10.300	33.792	111.160	111.251	1.117	14.540	1.004	26.000
245	207	10.350	33.956	86.370	86.508	1.685	22.140	1.948	23.000
246	208	10.400	34.120	120.330	120.387	2.000	9.210	1.661	21.500
247	209	10.450	34.284	209.640	209.679	1.589	6.230	0.758	29.000
248	210	10.500	34.448	205.060	205.088	1.464	4.470	0.714	36.300
249	211	10.550	34.612	166.450	166.468	2.020	2.940	1.213	38.800
250	212	10.600	34.776	247.740	247.791	2.541	8.150	1.025	37.000
251	213	10.650	34.941	212.180	212.218	3.048	6.140	1.436	41.300
252	214	10.700	35.105	136.290	136.393	1.922	16.560	1.409	49.200
253	215	10.750	35.269	165.850	165.886	0.957	5.720	0.577	52.300
254	216	10.800	35.433	170.400	170.422	1.303	3.530	0.765	45.600
255	217	10.850	35.597	123.300	123.328	1.552	4.530	1.258	33.600
256	218	10.900	35.761	104.220	104.248	1.179	4.460	1.131	29.700
257	219	10.950	35.925	100.390	100.416	1.275	4.090	1.270	33.000
258	220	11.000	36.089	91.370	91.414	1.284	7.000	1.405	25.100
259	221	11.050	36.253	97.060	97.083	1.192	3.760	1.228	21.000
260	222	11.100	36.417	79.730	79.746	0.972	2.610	1.219	20.600
261	223	11.150	36.581	86.360	86.407	1.064	7.490	1.231	14.600
262	224	11.200	36.745	135.260	135.327	0.922	10.780	0.681	18.600
263	225	11.250	36.909	106.700	106.769	0.880	11.090	0.824	20.900
264	226	11.300	37.073	116.250	116.307	0.843	9.130	0.725	23.500
265	227	11.350	37.237	110.240	110.308	0.883	10.890	0.800	31.300
266	228	11.400	37.401	85.150	85.177	0.776	4.270	0.911	26.000
267	229	11.450	37.565	78.020	78.027	0.397	1.140	0.509	32.900
268	230	11.500	37.729	101.860	101.864	0.513	0.630	0.504	30.600
269	231	11.550	37.893	118.150	118.162	0.865	1.890	0.732	31.600
270	232	11.600	38.057	86.960	86.984	0.962	3.840	1.106	27.000
271	233	11.650	38.221	169.910	169.939	0.421	4.630	0.248	29.900
272	234	11.700	38.385	165.210	165.327	0.674	18.740	0.408	39.400
273	235	11.750	38.549	144.870	144.925	0.485	8.770	0.335	39.700
274	236	11.800	38.713	123.390	123.457	0.722	10.800	0.585	48.700
275	237	11.850	38.877	108.480	108.498	0.654	2.910	0.603	66.800
276	238	11.900	39.042	41.260	41.269	0.670	1.400	1.624	76.100
277	239	11.950	39.206	46.740	46.764	0.723	3.850	1.546	80.800
278	240	12.000	39.370	65.530	65.562	0.666	5.170	1.016	96.700
279	241	12.050	39.534	85.940	85.972	0.995	5.130	1.157	94.200
280	242	12.100	39.698	102.000	102.035	0.951	5.640	0.932	96.600
281	243	12.150	39.862	111.740	111.770	1.028	4.840	0.920	90.200
282	244	12.200	40.026	118.460	118.491	1.094	4.900	0.923	81.100
283	245	12.250	40.190	118.530	118.560	1.098	4.840	0.926	87.700
284	246	12.300	40.354	97.330	97.360	1.244	4.740	1.278	93.400
285	247	12.350	40.518	98.520	98.554	1.058	5.400	1.074	82.200
286	248	12.400	40.682	105.800	105.841	0.611	6.530	0.577	86.800
287	249	12.450	40.846	99.830	99.851	0.683	3.320	0.684	80.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	86.190	86.198	1.092	1.310	1.267	71.000
289	251	12.550	41.174	79.770	79.779	1.074	1.520	1.346	65.700
290	252	12.600	41.338	88.250	88.259	1.000	1.500	1.133	42.700
291	253	12.650	41.502	63.200	63.208	1.107	1.340	1.751	31.900
292	254	12.700	41.666	70.130	70.156	1.406	4.110	2.004	27.400
293	255	12.750	41.830	77.530	77.590	1.348	9.560	1.737	22.000
294	256	12.800	41.994	76.140	76.157	1.267	2.690	1.664	22.600
295	257	12.850	42.158	78.580	78.618	1.056	6.020	1.343	25.000
296	258	12.900	42.322	156.600	156.637	1.825	5.940	1.165	25.800
297	259	12.950	42.486	197.740	197.788	1.376	7.750	0.696	25.600
298	260	13.000	42.650	98.040	98.052	1.107	1.880	1.129	31.400
299	261	13.050	42.814	70.700	70.703	0.767	0.530	1.085	36.100
300	262	13.100	42.978	57.200	57.196	0.693	-0.630	1.212	38.900
301	263	13.150	43.143	31.560	31.562	0.605	0.350	1.917	56.600
302	264	13.200	43.307	31.140	31.154	0.648	2.310	2.080	68.800
303	265	13.250	43.471	38.000	38.009	0.950	1.420	2.499	68.000
304	266	13.300	43.635	39.510	39.539	0.788	4.720	1.993	71.400
305	267	13.350	43.799	27.070	27.093	0.813	3.620	3.001	72.500
306	268	13.400	43.963	29.750	29.785	0.789	5.630	2.649	73.000
307	269	13.450	44.127	35.200	35.242	0.924	6.790	2.622	78.700
308	270	13.500	44.291	45.090	45.127	1.043	5.870	2.311	83.900
309	271	13.550	44.455	39.390	39.440	1.063	7.950	2.695	91.600
310	272	13.600	44.619	30.020	30.133	1.013	18.140	3.362	75.700
311	273	13.650	44.783	34.590	34.696	0.965	16.950	2.781	84.600
312	274	13.700	44.947	55.210	55.310	1.159	15.950	2.095	82.900
313	275	13.750	45.111	63.700	63.757	1.631	9.080	2.558	91.000
314	276	13.800	45.275	75.760	75.802	1.907	6.770	2.516	76.800
315	277	13.850	45.439	56.930	56.952	1.841	3.500	3.233	70.900
316	278	13.900	45.603	49.800	49.822	2.245	3.450	4.506	65.900
317	279	13.950	45.767	48.370	48.386	2.083	2.520	4.305	63.400
318	280	14.000	45.931	152.140	152.209	3.248	11.050	2.134	46.900
319	281	14.050	46.095	107.140	107.159	3.547	3.100	3.310	47.600
320	282	14.100	46.259	104.840	104.862	4.643	3.480	4.428	44.100
321	283	14.150	46.423	91.210	91.257	3.262	7.520	3.575	52.600
322	284	14.200	46.587	100.110	100.276	3.490	26.570	3.480	56.000
323	285	14.250	46.751	87.110	87.152	3.863	6.650	4.433	59.200
324	286	14.300	46.915	44.760	44.850	3.872	14.490	8.633	58.600
325	287	14.350	47.079	37.260	37.277	1.969	2.760	5.282	64.500
326	288	14.400	47.244	38.540	38.573	2.199	5.300	5.701	53.600
327	289	14.450	47.408	122.280	122.322	2.881	6.660	2.355	59.200
328	290	14.500	47.572	131.570	131.679	3.638	17.400	2.763	77.100
329	291	14.550	47.736	89.470	89.722	3.722	40.430	4.148	92.800
330	292	14.600	47.900	78.120	78.701	2.620	93.000	3.329	82.000
331	293	14.650	48.064	70.020	70.291	2.139	43.450	3.043	85.600
332	294	14.700	48.228	71.770	71.920	1.911	23.960	2.657	86.700
333	295	14.750	48.392	79.550	79.650	1.786	15.940	2.242	86.700
334	296	14.800	48.556	74.350	74.401	2.118	8.210	2.847	89.300
335	297	14.850	48.720	60.260	60.295	1.811	5.610	3.004	82.900
336	298	14.900	48.884	67.940	68.017	1.648	12.380	2.423	93.300
337	299	14.950	49.048	78.250	78.299	1.361	7.900	1.738	74.300
338	300	15.000	49.212	72.610	72.633	1.159	3.710	1.596	89.900
339	301	15.050	49.376	59.380	59.387	0.986	1.070	1.660	76.100
340	302	15.100	49.540	46.150	46.143	0.952	-1.060	2.063	66.300
341	303	15.150	49.704	42.940	42.928	0.717	-1.910	1.670	48.200
342	304	15.200	49.868	56.510	56.502	1.035	-1.280	1.832	42.100
343	305	15.250	50.032	69.810	69.874	1.242	10.190	1.777	32.000
344	306	15.300	50.196	69.060	69.085	1.805	4.080	2.613	24.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	42.270	42.293	1.537	3.650	3.634	30.700
346	308	15.400	50.524	25.170	25.221	1.356	8.100	5.377	21.000
347	309	15.450	50.688	22.090	22.175	1.351	13.680	6.092	23.400
348	310	15.500	50.852	30.010	30.154	1.368	23.070	4.537	25.400
349	311	15.550	51.016	40.740	40.870	1.617	20.870	3.956	31.300
350	312	15.600	51.180	49.480	49.547	1.526	10.690	3.080	45.700
351	313	15.650	51.345	27.260	27.390	1.493	20.790	5.451	43.300
352	314	15.700	51.509	30.050	30.364	1.376	50.310	4.532	54.600
353	315	15.750	51.673	54.870	55.252	1.207	61.140	2.185	65.900
354	316	15.800	51.837	68.880	68.957	2.132	12.410	3.092	65.400
355	317	15.850	52.001	92.200	92.240	3.025	6.410	3.279	72.200
356	318	15.900	52.165	75.470	75.452	2.805	-2.910	3.718	76.700
357	319	15.950	52.329	45.760	45.745	2.170	-2.380	4.744	70.400
358	320	16.000	52.493	37.400	37.388	1.360	-1.940	3.638	71.200
359	321	16.050	52.657	25.660	25.670	1.479	1.660	5.762	58.300
360	322	16.100	52.821	34.430	34.458	1.178	4.460	3.419	59.700
361	323	16.150	52.985	17.930	17.977	0.954	7.580	5.307	61.600
362	324	16.200	53.149	18.930	18.979	1.176	7.860	6.196	67.500
363	325	16.250	53.313	31.830	31.885	1.157	8.870	3.629	53.200
364	326	16.300	53.477	36.900	36.989	1.520	14.310	4.109	46.800
365	327	16.350	53.641	46.360	46.426	1.505	10.580	3.242	37.900
366	328	16.400	53.805	38.820	38.876	1.525	9.040	3.923	29.700
367	329	16.450	53.969	29.930	29.976	1.262	7.350	4.210	34.900
368	330	16.500	54.133	23.370	23.413	1.101	6.960	4.702	35.600
369	331	16.550	54.297	26.150	26.214	0.693	10.210	2.644	33.400
370	332	16.600	54.461	36.290	36.344	0.707	8.600	1.945	33.500
371	333	16.650	54.625	54.770	54.808	0.816	6.050	1.489	31.600
372	334	16.700	54.789	51.840	51.946	1.034	16.950	1.991	33.500
373	335	16.750	54.953	70.770	70.857	0.597	13.950	0.843	42.300
374	336	16.800	55.117	67.070	67.188	0.213	18.950	0.317	43.100
375	337	16.850	55.281	67.840	67.976	0.054	21.720	0.079	55.800
376	338	16.900	55.446	53.960	54.022	0.060	9.970	0.111	57.700
377	339	16.950	55.610	43.200	43.243	0.146	6.890	0.338	69.200
378	340	17.000	55.774	41.950	42.013	0.328	10.050	0.781	83.300
379	341	17.050	55.938	47.210	47.280	0.312	11.270	0.660	92.900
380	342	17.100	56.102	50.010	50.083	0.301	11.730	0.601	76.700
381	343	17.150	56.266	52.270	52.338	0.654	10.910	1.250	80.000
382	344	17.200	56.430	59.140	59.192	1.079	8.380	1.823	66.300
383	345	17.250	56.594	61.550	61.633	1.018	13.320	1.652	62.300
384	346	17.300	56.758	103.980	104.094	1.468	18.260	1.410	49.500
385	347	17.350	56.922	69.150	69.406	1.869	40.950	2.693	61.800
386	348	17.400	57.086	54.910	55.109	1.849	31.850	3.355	45.200
387	349	17.450	57.250	94.200	94.460	1.837	41.650	1.945	39.500
388	350	17.500	57.414	120.440	120.504	1.565	10.230	1.299	37.900
389	351	17.550	57.578	70.370	70.366	1.651	-0.650	2.346	34.500
390	352	17.600	57.742	47.930	47.926	1.174	-0.720	2.450	29.400
391	353	17.650	57.906	41.300	41.330	1.883	4.770	4.556	25.200
392	354	17.700	58.070	85.730	85.787	1.643	9.110	1.915	19.100
393	355	17.750	58.234	38.050	38.071	1.971	3.430	5.177	23.900
394	356	17.800	58.398	30.330	30.352	1.842	3.500	6.069	12.000
395	357	17.850	58.562	54.430	54.432	2.023	0.280	3.717	17.300
396	358	17.900	58.726	122.540	122.652	2.345	17.880	1.912	14.400
397	359	17.950	58.890	63.950	64.086	2.226	21.760	3.473	14.800
398	360	18.000	59.054	54.560	54.632	1.725	11.550	3.157	20.400
399	361	18.050	59.218	41.700	41.763	1.594	10.150	3.817	20.800
400	362	18.100	59.382	42.620	42.657	1.474	5.940	3.455	18.300
401	363	18.150	59.547	74.020	74.089	1.504	11.050	2.030	23.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	34.280	34.369	1.411	14.240	4.105	22.300
403	365	18.250	59.875	18.750	18.826	1.614	12.240	8.573	26.600
404	366	18.300	60.039	33.960	34.055	1.395	15.260	4.096	30.400
405	367	18.350	60.203	31.220	31.309	1.401	14.280	4.475	38.500
406	368	18.400	60.367	30.220	30.301	1.204	13.040	3.973	33.400
407	369	18.450	60.531	31.690	31.783	0.803	14.950	2.526	33.200
408	370	18.500	60.695	25.450	25.602	0.843	24.310	3.293	31.400
409	371	18.550	60.859	41.740	41.805	0.644	10.410	1.540	40.000
410	372	18.600	61.023	57.720	57.767	1.058	7.480	1.832	41.700
411	373	18.650	61.187	35.160	35.200	1.000	6.360	2.841	49.600
412	374	18.700	61.351	33.280	33.415	1.313	21.660	3.929	55.500
413	375	18.750	61.515	39.270	39.383	1.195	18.170	3.034	78.400
414	376	18.800	61.679	38.160	38.267	1.221	17.120	3.191	76.200
415	377	18.850	61.843	52.520	52.631	1.135	17.850	2.157	87.000
416	378	18.900	62.007	62.630	62.736	1.252	16.920	1.996	99.500
417	379	18.950	62.171	71.570	71.656	1.642	13.830	2.291	77.900
418	380	19.000	62.335	62.870	62.954	1.994	13.500	3.167	67.100
419	381	19.050	62.499	48.580	48.655	1.697	12.080	3.488	77.300
420	382	19.100	62.663	54.710	54.814	1.467	16.650	2.676	48.000
421	383	19.150	62.827	43.470	43.500	1.413	4.730	3.248	51.400
422	384	19.200	62.991	31.770	31.810	1.203	6.420	3.782	50.800
423	385	19.250	63.155	18.720	18.749	0.823	4.600	4.390	54.600
424	386	19.300	63.319	21.090	21.109	0.597	2.980	2.828	62.700
425	387	19.350	63.483	27.820	27.858	0.502	6.080	1.802	72.000
426	388	19.400	63.648	21.630	21.657	0.706	4.370	3.260	75.100
427	389	19.450	63.812	26.120	26.164	0.794	6.980	3.035	86.300
428	390	19.500	63.976	39.830	39.899	0.890	11.090	2.231	85.000
429	391	19.550	64.140	59.220	59.323	1.200	16.510	2.023	83.800
430	392	19.600	64.304	51.250	51.336	1.323	13.750	2.577	92.800
431	393	19.650	64.468	44.750	44.840	1.207	14.410	2.692	80.600
432	394	19.700	64.632	43.460	43.544	1.004	13.390	2.306	83.000
433	395	19.750	64.796	40.220	40.298	0.891	12.490	2.211	91.100
434	396	19.800	64.960	39.690	39.775	0.909	13.580	2.285	71.500
435	397	19.850	65.124	45.900	45.990	0.929	14.450	2.020	91.700
436	398	19.900	65.288	46.400	46.483	1.026	13.310	2.207	96.600
437	399	19.950	65.452	46.190	46.270	0.947	12.850	2.047	78.600
438	400	20.000	65.616	51.090	51.170	0.946	12.850	1.849	80.100
439	401	20.050	65.780	50.200	50.279	0.970	12.700	1.929	96.800
440	402	20.100	65.944	39.140	39.224	1.183	13.400	3.016	92.600
441	403	20.150	66.108	33.280	33.397	1.712	18.770	5.126	93.300
442	404	20.200	66.272	58.670	58.958	2.234	46.060	3.789	87.200
443	405	20.250	66.436	86.340	86.610	2.479	43.320	2.862	82.400
444	406	20.300	66.600	92.780	92.965	2.692	29.680	2.896	75.800
445	407	20.350	66.764	113.760	113.870	3.021	17.700	2.653	68.400
446	408	20.400	66.928	109.500	109.643	3.174	22.980	2.895	59.600
447	409	20.450	67.092	95.440	95.552	4.030	17.930	4.218	66.300
448	410	20.500	67.256	97.010	97.139	3.704	20.650	3.813	68.200
449	411	20.550	67.420	60.060	60.236	3.466	28.160	5.754	53.900
450	412	20.600	67.584	50.720	50.883	3.282	26.100	6.450	37.700
451	413	20.650	67.749	68.420	68.530	3.021	17.640	4.408	37.600
452	414	20.700	67.913	72.550	72.670	3.252	19.290	4.475	43.300
453	415	20.750	68.077	63.480	63.678	2.825	31.650	4.436	54.700
454	416	20.800	68.241	42.670	42.880	2.174	33.570	5.070	64.900
455	417	20.850	68.405	45.070	45.253	1.725	29.350	3.812	74.300
456	418	20.900	68.569	45.620	45.880	1.543	41.630	3.363	69.500
457	419	20.950	68.733	51.610	51.888	1.810	44.580	3.488	61.600
458	420	21.000	68.897	56.580	56.732	1.475	24.390	2.600	60.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	56.720	56.817	1.487	15.500	2.617	64.400
460	422	21.100	69.225	38.120	38.162	0.962	6.740	2.521	53.700
461	423	21.150	69.389	25.960	25.983	0.885	3.710	3.406	54.000
462	424	21.200	69.553	39.270	39.304	1.005	5.490	2.557	43.100
463	425	21.250	69.717	33.410	33.453	1.189	6.950	3.554	50.200
464	426	21.300	69.881	18.890	18.913	1.432	3.620	7.572	56.000
465	427	21.350	70.045	59.100	59.204	1.250	16.710	2.111	68.200
466	428	21.400	70.209	59.060	59.224	1.146	26.220	1.935	70.600
467	429	21.450	70.373	55.720	55.817	1.126	15.500	2.017	82.500
468	430	21.500	70.537	36.920	36.979	0.856	9.520	2.315	77.100
469	431	21.550	70.701	27.700	27.792	0.709	14.690	2.551	83.300
470	432	21.600	70.865	31.070	31.244	0.887	27.900	2.839	92.800
471	433	21.650	71.029	51.670	51.777	1.076	17.120	2.078	86.700
472	434	21.700	71.193	36.220	36.484	1.407	42.340	3.856	81.500
473	435	21.750	71.357	39.800	40.083	2.132	45.310	5.319	86.200
474	436	21.800	71.521	36.450	36.592	1.865	22.800	5.097	88.100
475	437	21.850	71.685	32.610	32.685	1.742	12.030	5.330	89.300
476	438	21.900	71.850	31.090	31.170	1.716	12.860	5.505	87.900
477	439	21.950	72.014	40.080	40.175	1.079	15.170	2.686	87.200
478	440	22.000	72.178	29.870	29.969	0.974	15.820	3.250	85.700
479	441	22.050	72.342	35.510	35.602	1.057	14.660	2.969	75.600
480	442	22.100	72.506	25.420	25.478	1.053	9.370	4.133	68.100
481	443	22.150	72.670	26.460	26.543	1.036	13.350	3.903	60.900
482	444	22.200	72.834	25.960	26.096	1.727	21.730	6.618	46.500
483	445	22.250	72.998	125.540	125.673	2.403	21.360	1.912	32.200
484	446	22.300	73.162	126.540	126.612	2.855	11.610	2.255	34.700
485	447	22.350	73.326	68.140	68.500	2.816	57.710	4.111	33.100
486	448	22.400	73.490	39.500	39.710	2.032	33.670	5.117	47.900
487	449	22.450	73.654	41.740	41.878	1.548	22.060	3.696	44.900
488	450	22.500	73.818	40.350	40.448	1.562	15.670	3.862	52.200
489	451	22.550	73.982	53.940	54.044	1.629	16.660	3.014	52.300
490	452	22.600	74.146	79.230	79.330	1.354	15.980	1.707	46.900
491	453	22.650	74.310	160.430	160.534	1.149	16.660	0.716	48.800
492	454	22.700	74.474	154.440	154.473	1.935	5.280	1.253	49.400
493	455	22.750	74.638	114.650	114.687	2.858	5.890	2.492	51.200
494	456	22.800	74.802	107.280	107.324	4.408	7.030	4.107	54.900
495	457	22.850	74.966	128.460	128.527	6.263	10.780	4.873	53.600
496	458	22.900	75.130	113.940	113.985	5.661	7.280	4.966	44.300
497	459	22.950	75.294	76.590	77.757	4.307	186.900	5.539	36.700
498	460	23.000	75.458	93.640	94.187	4.257	87.610	4.520	32.200
499	461	23.050	75.622	145.700	146.178	4.734	76.490	3.239	32.000
500	462	23.100	75.786	141.540	142.868	4.336	212.710	3.035	32.000
501	463	23.150	75.951	160.190	160.576	4.679	61.770	2.914	36.600
502	464	23.200	76.115	141.240	141.459	3.648	35.100	2.579	47.400
503	465	23.250	76.279	92.140	92.197	4.119	9.070	4.468	56.700
504	466	23.300	76.443	77.050	77.109	3.136	9.410	4.067	66.100
505	467	23.350	76.607	78.160	78.329	3.029	27.040	3.867	66.400
506	468	23.400	76.771	92.320	92.385	2.509	10.380	2.716	71.700
507	469	23.450	76.935	72.590	72.606	2.366	2.570	3.259	73.800
508	470	23.500	77.099	48.480	48.530	1.928	8.050	3.973	75.600
509	471	23.550	77.263	56.820	56.881	1.344	9.710	2.363	0.000
510	472	23.600	77.427	44.620	44.709	1.587	14.290	3.550	0.000
511	473	23.650	77.591	66.120	66.221	1.756	16.230	2.652	0.000
512	474	23.700	77.755	52.780	52.891	1.589	17.730	3.004	0.000
513	475	23.750	77.919	94.430	94.441	4.597	1.730	4.868	0.000
514	476	23.800	78.083	115.420	115.472	2.784	8.310	2.411	0.000
515	477	23.850	78.247	169.360	169.426	3.841	10.510	2.267	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	100.200	100.245	3.691	7.150	3.682	0.000
517	479	23.950	78.575	69.930	70.500	3.641	91.360	5.165	0.000
518	480	24.000	78.739	71.530	71.908	3.769	60.490	5.241	0.000
519	481	24.050	78.903	130.630	131.238	4.973	97.350	3.789	0.000
520	482	24.100	79.067	122.320	122.553	5.920	37.260	4.831	0.000
521	483	24.150	79.231	117.880	118.485	6.707	96.840	5.661	0.000
522	484	24.200	79.395	136.230	137.681	6.011	232.460	4.366	0.000
523	485	24.250	79.559	135.340	138.570	0.000	517.330	0.000	0.000
524	486	24.300	79.723	347.690	348.717	0.000	164.480	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272391				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-08				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-17-2015				
14		CPT Time:			14:54				
15		CPT File:			15-53039_GP1D-08.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722135.310				
31		Northing / Lat:			4294238.064				
32		Elevation:			157.540				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	7.740	7.739	0.011	-0.190	0.142	23.300
40	2	0.100	0.328	11.450	11.450	0.018	0.020	0.157	22.300
41	3	0.150	0.492	20.590	20.601	0.038	1.800	0.184	27.100
42	4	0.200	0.656	25.870	25.882	0.021	1.960	0.081	24.100
43	5	0.250	0.820	25.280	25.297	0.014	2.740	0.055	32.900
44	6	0.300	0.984	22.890	22.901	0.025	1.840	0.109	29.900
45	7	0.350	1.148	21.250	21.263	0.022	2.110	0.103	31.600
46	8	0.400	1.312	23.540	23.553	0.115	2.080	0.488	43.300
47	9	0.450	1.476	23.620	23.617	0.197	-0.550	0.834	53.600
48	10	0.500	1.640	6.990	7.039	0.233	7.820	3.310	80.100
49	11	0.550	1.804	7.060	7.143	0.223	13.220	3.122	78.600
50	12	0.600	1.968	8.960	9.043	0.165	13.230	1.825	87.100
51	13	0.650	2.133	6.890	6.936	0.164	7.300	2.365	86.100
52	14	0.700	2.297	4.800	4.804	0.157	0.690	3.268	89.500
53	15	0.750	2.461	4.890	4.860	0.238	-4.800	4.897	81.700
54	16	0.800	2.625	9.570	9.574	0.342	0.570	3.572	86.200
55	17	0.850	2.789	19.800	19.867	0.376	10.800	1.893	90.800
56	18	0.900	2.953	21.830	21.902	0.400	11.580	1.826	101.300
57	19	0.950	3.117	22.040	22.076	0.456	5.730	2.066	97.100
58	20	1.000	3.281	20.330	20.343	0.439	2.020	2.158	80.900
59	21	1.050	3.445	28.870	28.870	0.485	-0.050	1.680	100.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	44.590	44.571	0.584	-3.030	1.310	101.400
61	23	1.150	3.773	45.330	45.296	0.636	-5.470	1.404	87.800
62	24	1.200	3.937	35.100	35.052	0.666	-7.670	1.900	93.300
63	25	1.250	4.101	24.850	24.769	0.567	-13.040	2.289	91.600
64	26	1.300	4.265	16.290	16.208	0.503	-13.140	3.103	81.400
65	27	1.350	4.429	14.860	14.777	0.377	-13.280	2.551	85.400
66	28	1.400	4.593	14.030	13.943	0.355	-14.010	2.546	73.100
67	29	1.450	4.757	9.850	9.754	0.254	-15.320	2.604	79.400
68	30	1.500	4.921	17.620	17.523	0.371	-15.490	2.117	61.900
69	31	1.550	5.085	14.280	14.269	0.392	-1.700	2.747	46.600
70	32	1.600	5.249	13.370	13.373	0.433	0.410	3.238	37.400
71	33	1.650	5.413	20.510	20.519	0.458	1.460	2.232	44.200
72	34	1.700	5.577	23.200	23.224	0.633	3.820	2.726	35.900
73	35	1.750	5.741	15.930	15.949	0.632	3.050	3.963	40.400
74	36	1.800	5.905	26.910	26.928	0.736	2.880	2.733	25.500
75	37	1.850	6.069	21.770	21.792	0.639	3.510	2.932	25.400
76	38	1.900	6.234	14.110	14.129	0.631	2.970	4.466	25.800
77	39	1.950	6.398	42.840	42.851	0.744	1.720	1.736	29.900
78	40	2.000	6.562	22.740	22.765	0.758	4.070	3.330	29.700
79	41	2.050	6.726	43.660	43.660	0.870	0.080	1.993	48.100
80	42	2.100	6.890	24.450	24.445	0.665	-0.730	2.720	50.200
81	43	2.150	7.054	16.870	16.880	0.503	1.610	2.980	60.300
82	44	2.200	7.218	16.920	16.921	0.366	0.110	2.163	77.400
83	45	2.250	7.382	21.050	21.045	0.400	-0.860	1.901	99.500
84	46	2.300	7.546	23.840	23.826	0.419	-2.300	1.759	95.800
85	47	2.350	7.710	25.710	25.688	0.412	-3.510	1.604	81.700
86	48	2.400	7.874	19.310	19.272	0.428	-6.160	2.221	95.800
87	49	2.450	8.038	12.940	12.883	0.395	-9.080	3.066	85.600
88	50	2.500	8.202	10.400	10.344	0.344	-9.020	3.326	85.200
89	51	2.550	8.366	8.400	8.341	0.236	-9.390	2.829	88.400
90	52	2.600	8.530	11.170	11.112	0.158	-9.220	1.422	78.000
91	53	2.650	8.694	19.870	19.868	0.391	-0.300	1.968	68.800
92	54	2.700	8.858	27.610	27.616	0.371	0.950	1.343	49.100
93	55	2.750	9.022	14.330	14.339	0.327	1.380	2.281	48.800
94	56	2.800	9.186	20.570	20.570	0.234	0.020	1.138	36.000
95	57	2.850	9.350	31.010	31.013	0.326	0.440	1.051	37.500
96	58	2.900	9.514	32.680	32.697	0.457	2.690	1.398	28.800
97	59	2.950	9.678	22.560	22.564	0.605	0.620	2.681	30.300
98	60	3.000	9.842	21.040	21.063	0.632	3.620	3.001	37.300
99	61	3.050	10.006	21.690	21.761	0.731	11.410	3.359	37.000
100	62	3.100	10.170	71.200	71.221	0.692	3.370	0.972	28.100
101	63	3.150	10.335	55.540	55.550	0.799	1.660	1.438	15.300
102	64	3.200	10.499	43.910	43.906	0.732	-0.650	1.667	18.900
103	65	3.250	10.663	98.190	98.230	1.408	6.410	1.433	20.600
104	66	3.300	10.827	199.080	199.089	2.561	1.390	1.286	14.800
105	67	3.350	10.991	109.890	109.919	2.423	4.700	2.204	15.900
106	68	3.400	11.155	80.690	80.719	2.354	4.710	2.916	8.300
107	69	3.450	11.319	79.390	79.409	2.063	3.060	2.598	9.100
108	70	3.500	11.483	142.480	142.527	2.176	7.540	1.527	7.900
109	71	3.550	11.647	84.370	84.413	1.918	6.940	2.272	13.900
110	72	3.600	11.811	90.080	90.114	1.433	5.480	1.590	10.600
111	73	3.650	11.975	174.990	174.989	1.375	-0.110	0.786	12.500
112	74	3.700	12.139	107.230	107.249	1.587	3.100	1.480	10.200
113	75	3.750	12.303	104.910	104.926	1.748	2.600	1.666	11.800
114	76	3.800	12.467	68.510	68.527	1.488	2.700	2.171	10.900
115	77	3.850	12.631	27.400	27.408	1.109	1.220	4.046	14.900
116	78	3.900	12.795	25.630	25.633	0.681	0.500	2.657	13.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	33.310	33.312	0.629	0.270	1.888	20.900
118	80	4.000	13.123	11.400	11.401	0.555	0.140	4.868	19.700
119	81	4.050	13.287	18.430	18.433	0.918	0.410	4.980	18.400
120	82	4.100	13.451	44.230	44.238	0.915	1.350	2.068	11.400
121	83	4.150	13.615	42.610	42.620	0.881	1.650	2.067	16.300
122	84	4.200	13.779	105.080	105.088	0.762	1.350	0.725	20.200
123	85	4.250	13.943	50.910	50.915	1.080	0.860	2.121	16.900
124	86	4.300	14.107	39.830	39.835	1.289	0.860	3.236	18.100
125	87	4.350	14.271	115.220	115.214	1.763	-0.920	1.530	20.600
126	88	4.400	14.436	196.430	196.467	3.266	5.910	1.662	27.000
127	89	4.450	14.600	78.150	78.185	3.423	5.530	4.378	26.200
128	90	4.500	14.764	43.140	43.150	3.130	1.630	7.254	35.900
129	91	4.550	14.928	43.210	43.228	1.987	2.910	4.597	43.000
130	92	4.600	15.092	32.200	32.210	1.500	1.620	4.657	49.900
131	93	4.650	15.256	39.070	39.048	0.985	-3.530	2.523	51.800
132	94	4.700	15.420	72.930	72.933	1.110	0.450	1.522	44.600
133	95	4.750	15.584	55.060	55.063	1.648	0.410	2.993	40.000
134	96	4.800	15.748	69.110	69.094	2.135	-2.610	3.090	39.300
135	97	4.850	15.912	73.800	73.802	2.036	0.300	2.759	39.400
136	98	4.900	16.076	58.790	58.802	1.719	1.980	2.923	34.400
137	99	4.950	16.240	65.140	65.145	1.143	0.770	1.755	45.700
138	100	5.000	16.404	33.100	33.111	1.075	1.800	3.247	57.400
139	101	5.050	16.568	35.930	35.960	0.780	4.730	2.169	48.500
140	102	5.100	16.732	37.750	37.780	0.721	4.840	1.908	49.400
141	103	5.150	16.896	32.690	32.713	0.622	3.710	1.901	44.400
142	104	5.200	17.060	33.150	33.168	0.473	2.830	1.426	45.500
143	105	5.250	17.224	100.670	100.682	0.911	1.880	0.905	42.600
144	106	5.300	17.388	173.670	173.693	0.911	3.610	0.524	34.900
145	107	5.350	17.552	97.220	97.346	1.351	20.160	1.388	29.300
146	108	5.400	17.716	65.790	65.824	1.507	5.390	2.289	22.800
147	109	5.450	17.880	70.760	70.776	1.058	2.580	1.495	30.000
148	110	5.500	18.044	54.620	54.630	1.206	1.540	2.208	24.500
149	111	5.550	18.208	45.360	45.373	1.071	2.090	2.360	17.500
150	112	5.600	18.372	63.210	63.245	0.923	5.550	1.459	17.400
151	113	5.650	18.537	62.760	62.803	1.075	6.940	1.712	17.400
152	114	5.700	18.701	70.560	70.591	0.920	5.010	1.303	16.000
153	115	5.750	18.865	79.880	79.889	1.516	1.390	1.898	9.600
154	116	5.800	19.029	117.340	117.339	1.645	-0.230	1.402	10.800
155	117	5.850	19.193	92.260	92.264	2.070	0.620	2.244	12.800
156	118	5.900	19.357	122.410	122.427	2.271	2.790	1.855	14.100
157	119	5.950	19.521	76.000	76.010	1.605	1.600	2.112	16.000
158	120	6.000	19.685	43.130	43.137	1.957	1.110	4.537	14.000
159	121	6.050	19.849	38.940	38.940	1.462	0.060	3.754	17.500
160	122	6.100	20.013	53.660	53.668	1.567	1.210	2.920	9.700
161	123	6.150	20.177	62.940	62.948	1.210	1.300	1.922	14.000
162	124	6.200	20.341	106.300	106.319	1.737	3.040	1.634	13.600
163	125	6.250	20.505	92.640	92.654	1.232	2.210	1.330	11.800
164	126	6.300	20.669	90.530	90.537	0.591	1.140	0.653	15.400
165	127	6.350	20.833	139.310	139.310	0.959	-0.040	0.688	12.300
166	128	6.400	20.997	89.040	89.041	1.403	0.150	1.576	9.700
167	129	6.450	21.161	45.660	45.669	1.666	1.510	3.648	7.700
168	130	6.500	21.325	83.780	83.786	1.741	0.950	2.078	11.400
169	131	6.550	21.489	120.020	120.029	1.421	1.440	1.184	9.700
170	132	6.600	21.653	128.560	128.560	0.854	0.080	0.664	8.800
171	133	6.650	21.817	81.430	81.442	0.584	1.930	0.717	12.800
172	134	6.700	21.981	65.360	65.368	0.798	1.260	1.221	13.300
173	135	6.750	22.145	51.740	51.744	1.242	0.610	2.400	14.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	56.070	56.069	1.160	-0.090	2.069	9.200
175	137	6.850	22.473	85.180	85.180	3.545	0.010	4.162	7.200
176	138	6.900	22.638	329.330	329.342	5.635	1.990	1.711	10.600
177	139	6.950	22.802	292.160	292.158	4.588	-0.250	1.570	12.500
178	140	7.000	22.966	86.810	86.809	2.756	-0.110	3.175	11.500
179	141	7.050	23.130	106.940	106.944	1.945	0.610	1.819	15.000
180	142	7.100	23.294	71.660	71.667	1.778	1.120	2.481	12.100
181	143	7.150	23.458	74.230	74.238	1.470	1.240	1.980	13.100
182	144	7.200	23.622	52.270	52.262	0.826	-1.300	1.581	15.200
183	145	7.250	23.786	35.710	35.708	0.765	-0.330	2.142	17.800
184	146	7.300	23.950	52.100	52.099	0.702	-0.110	1.347	11.200
185	147	7.350	24.114	33.450	33.452	0.544	0.330	1.626	17.600
186	148	7.400	24.278	29.380	29.376	0.852	-0.600	2.900	22.800
187	149	7.450	24.442	22.730	22.733	0.765	0.420	3.365	17.600
188	150	7.500	24.606	67.220	67.221	1.246	0.110	1.854	18.200
189	151	7.550	24.770	71.570	71.577	1.160	1.080	1.621	23.600
190	152	7.600	24.934	81.240	81.246	1.011	0.890	1.244	12.800
191	153	7.650	25.098	107.540	107.539	1.754	-0.110	1.631	15.200
192	154	7.700	25.262	131.400	131.415	1.670	2.470	1.271	14.100
193	155	7.750	25.426	100.350	100.373	1.662	3.760	1.656	10.700
194	156	7.800	25.590	235.890	235.910	1.934	3.170	0.820	13.300
195	157	7.850	25.754	252.440	252.464	2.889	3.890	1.144	16.800
196	158	7.900	25.918	161.040	161.040	2.975	0.030	1.847	11.200
197	159	7.950	26.082	104.700	104.702	2.383	0.380	2.276	14.700
198	160	8.000	26.246	110.930	110.938	1.532	1.350	1.381	13.200
199	161	8.050	26.410	102.150	102.148	1.131	-0.330	1.107	17.900
200	162	8.100	26.574	49.150	49.148	1.208	-0.330	2.458	8.200
201	163	8.150	26.739	104.570	104.568	1.540	-0.320	1.473	17.200
202	164	8.200	26.903	158.150	158.145	1.648	-0.800	1.042	17.600
203	165	8.250	27.067	82.370	82.369	1.332	-0.180	1.617	12.100
204	166	8.300	27.231	74.150	74.148	0.882	-0.300	1.190	17.300
205	167	8.350	27.395	71.590	71.587	0.894	-0.520	1.249	17.400
206	168	8.400	27.559	84.520	84.522	1.084	0.300	1.283	17.500
207	169	8.450	27.723	63.600	63.602	0.944	0.370	1.484	19.500
208	170	8.500	27.887	62.990	62.985	0.750	-0.800	1.191	25.300
209	171	8.550	28.051	59.690	59.688	0.774	-0.350	1.297	21.400
210	172	8.600	28.215	61.350	61.349	0.834	-0.110	1.359	34.900
211	173	8.650	28.379	62.600	62.622	1.014	3.600	1.619	32.500
212	174	8.700	28.543	69.160	69.144	1.055	-2.520	1.526	39.100
213	175	8.750	28.707	90.880	90.878	0.996	-0.400	1.096	38.300
214	176	8.800	28.871	66.010	66.017	0.984	1.100	1.491	56.800
215	177	8.850	29.035	51.720	51.723	0.916	0.530	1.771	61.900
216	178	8.900	29.199	42.650	42.658	0.826	1.360	1.936	71.600
217	179	8.950	29.363	45.190	45.203	0.785	2.010	1.737	81.000
218	180	9.000	29.527	36.910	36.923	0.929	2.100	2.516	98.600
219	181	9.050	29.691	33.260	33.273	0.929	2.040	2.792	93.700
220	182	9.100	29.855	32.290	32.306	0.858	2.630	2.656	103.700
221	183	9.150	30.019	32.150	32.166	0.820	2.560	2.549	94.800
222	184	9.200	30.183	27.680	27.694	0.870	2.270	3.141	89.100
223	185	9.250	30.347	25.100	25.114	1.443	2.170	5.746	79.100
224	186	9.300	30.511	42.430	42.441	1.312	1.810	3.091	75.500
225	187	9.350	30.675	174.690	174.702	4.929	1.950	2.821	73.700
226	188	9.400	30.840	143.610	143.612	6.286	0.330	4.377	67.800
227	189	9.450	31.004	118.950	118.945	6.765	-0.800	5.688	68.100
228	190	9.500	31.168	90.650	90.643	3.017	-1.070	3.328	73.300
229	191	9.550	31.332	71.290	71.334	2.109	6.970	2.957	74.800
230	192	9.600	31.496	49.530	49.584	1.748	8.640	3.525	73.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	46.640	46.742	1.564	16.300	3.346	52.500
232	194	9.700	31.824	48.600	48.683	1.747	13.300	3.589	55.600
233	195	9.750	31.988	66.870	66.931	2.034	9.800	3.039	48.800
234	196	9.800	32.152	67.710	67.747	2.066	5.860	3.050	33.100
235	197	9.850	32.316	51.500	51.578	2.091	12.430	4.054	42.800
236	198	9.900	32.480	84.400	84.476	2.235	12.140	2.646	28.100
237	199	9.950	32.644	98.600	98.676	2.365	12.120	2.397	40.800
238	200	10.000	32.808	110.930	110.995	2.282	10.470	2.056	30.200
239	201	10.050	32.972	117.090	117.120	2.495	4.760	2.130	31.900
240	202	10.100	33.136	108.030	108.085	2.972	8.750	2.750	24.600
241	203	10.150	33.300	109.710	109.790	2.607	12.770	2.375	33.800
242	204	10.200	33.464	92.520	92.592	1.494	11.460	1.614	31.600
243	205	10.250	33.628	95.220	95.286	1.497	10.590	1.571	37.900
244	206	10.300	33.792	84.830	84.886	1.930	8.980	2.274	54.700
245	207	10.350	33.956	75.000	75.054	2.246	8.690	2.993	53.100
246	208	10.400	34.120	47.460	47.519	2.027	9.480	4.266	66.600
247	209	10.450	34.284	53.350	53.624	1.663	43.910	3.101	63.200
248	210	10.500	34.448	84.100	84.237	1.699	21.910	2.017	51.800
249	211	10.550	34.612	75.250	75.379	1.463	20.720	1.941	36.600
250	212	10.600	34.776	85.400	85.505	1.389	16.880	1.624	25.000
251	213	10.650	34.941	114.480	114.580	1.589	15.980	1.387	23.400
252	214	10.700	35.105	110.250	110.335	2.037	13.640	1.846	20.700
253	215	10.750	35.269	112.120	112.151	2.197	5.040	1.959	22.400
254	216	10.800	35.433	130.870	130.859	2.972	-1.820	2.271	21.900
255	217	10.850	35.597	80.410	80.473	2.331	10.030	2.897	20.300
256	218	10.900	35.761	81.930	82.215	1.767	45.590	2.149	18.500
257	219	10.950	35.925	74.150	74.411	1.036	41.770	1.392	17.300
258	220	11.000	36.089	75.410	75.574	1.018	26.310	1.347	18.400
259	221	11.050	36.253	70.180	70.318	1.396	22.070	1.985	14.100
260	222	11.100	36.417	36.960	37.081	1.270	19.450	3.425	19.700
261	223	11.150	36.581	41.490	41.666	1.308	28.120	3.139	15.700
262	224	11.200	36.745	62.310	62.452	0.837	22.730	1.340	13.600
263	225	11.250	36.909	32.610	32.678	0.632	10.900	1.934	18.700
264	226	11.300	37.073	25.290	25.331	0.428	6.570	1.690	17.700
265	227	11.350	37.237	19.750	19.785	0.735	5.620	3.715	17.900
266	228	11.400	37.401	69.910	69.905	1.113	-0.750	1.592	20.800
267	229	11.450	37.565	69.570	69.576	1.478	0.940	2.124	22.500
268	230	11.500	37.729	148.990	149.005	1.554	2.370	1.043	23.500
269	231	11.550	37.893	226.270	226.300	1.336	4.800	0.590	28.300
270	232	11.600	38.057	261.440	261.436	1.597	-0.620	0.611	31.400
271	233	11.650	38.221	67.840	67.833	1.504	-1.110	2.217	45.500
272	234	11.700	38.385	25.040	25.036	1.361	-0.650	5.436	65.200
273	235	11.750	38.549	22.290	22.320	0.681	4.860	3.051	77.700
274	236	11.800	38.713	38.940	39.003	1.701	10.120	4.361	78.700
275	237	11.850	38.877	67.110	67.155	0.901	7.280	1.342	77.800
276	238	11.900	39.042	118.640	118.650	0.824	1.590	0.694	83.500
277	239	11.950	39.206	133.080	133.036	1.935	-7.060	1.454	90.000
278	240	12.000	39.370	72.740	72.688	2.065	-8.400	2.841	83.200
279	241	12.050	39.534	70.010	69.967	2.098	-6.940	2.999	85.800
280	242	12.100	39.698	178.710	178.663	1.889	-7.450	1.057	73.300
281	243	12.150	39.862	188.840	188.770	3.351	-11.160	1.775	80.000
282	244	12.200	40.026	119.040	118.970	3.190	-11.220	2.681	56.700
283	245	12.250	40.190	106.350	106.275	3.855	-11.970	3.627	61.400
284	246	12.300	40.354	105.920	105.849	2.666	-11.320	2.519	51.500
285	247	12.350	40.518	65.200	65.143	2.744	-9.140	4.212	35.300
286	248	12.400	40.682	56.390	56.347	2.613	-6.860	4.637	27.300
287	249	12.450	40.846	98.350	98.318	2.476	-5.100	2.518	23.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	72.480	72.463	2.789	-2.680	3.849	19.400
289	251	12.550	41.174	56.250	56.255	3.066	0.790	5.450	25.200
290	252	12.600	41.338	62.300	62.315	2.422	2.380	3.887	18.600
291	253	12.650	41.502	33.410	33.462	1.943	8.360	5.807	26.400
292	254	12.700	41.666	38.620	38.663	1.610	6.960	4.164	26.100
293	255	12.750	41.830	82.940	82.981	1.804	6.580	2.174	28.600
294	256	12.800	41.994	78.370	78.412	1.894	6.770	2.415	33.600
295	257	12.850	42.158	40.680	40.712	1.753	5.140	4.306	41.700
296	258	12.900	42.322	24.940	24.966	1.151	4.230	4.610	39.300
297	259	12.950	42.486	17.970	17.989	0.781	3.070	4.342	41.800
298	260	13.000	42.650	19.090	19.109	0.713	3.050	3.731	49.400
299	261	13.050	42.814	22.380	22.396	0.713	2.620	3.184	48.600
300	262	13.100	42.978	22.510	22.551	0.887	6.550	3.933	44.500
301	263	13.150	43.143	31.910	31.953	0.774	6.900	2.422	66.900
302	264	13.200	43.307	14.160	14.195	0.841	5.600	5.925	60.600
303	265	13.250	43.471	24.400	24.434	0.682	5.450	2.791	63.600
304	266	13.300	43.635	29.190	29.242	0.662	8.280	2.264	65.500
305	267	13.350	43.799	49.800	49.842	0.894	6.750	1.794	67.100
306	268	13.400	43.963	30.920	30.935	1.090	2.350	3.524	59.700
307	269	13.450	44.127	23.670	23.690	1.224	3.220	5.167	78.600
308	270	13.500	44.291	32.430	32.461	1.901	4.950	5.856	61.400
309	271	13.550	44.455	114.460	114.496	3.487	5.700	3.046	55.300
310	272	13.600	44.619	115.890	115.913	4.423	3.690	3.816	57.000
311	273	13.650	44.783	127.550	127.578	4.617	4.530	3.619	54.800
312	274	13.700	44.947	149.120	149.134	4.803	2.180	3.221	57.200
313	275	13.750	45.111	106.210	106.227	3.762	2.770	3.541	68.600
314	276	13.800	45.275	75.270	75.810	3.427	86.580	4.520	73.300
315	277	13.850	45.439	79.600	79.581	2.663	-3.030	3.346	75.800
316	278	13.900	45.603	67.620	67.552	2.425	-10.910	3.590	87.500
317	279	13.950	45.767	52.350	52.294	1.940	-8.900	3.710	82.300
318	280	14.000	45.931	51.530	51.476	1.717	-8.660	3.336	81.900
319	281	14.050	46.095	123.770	123.817	1.435	7.550	1.159	77.800
320	282	14.100	46.259	112.980	113.016	1.754	5.700	1.552	85.500
321	283	14.150	46.423	102.240	102.266	2.433	4.130	2.379	83.400
322	284	14.200	46.587	58.910	58.937	1.905	4.270	3.232	84.500
323	285	14.250	46.751	29.330	29.348	1.581	2.960	5.387	68.400
324	286	14.300	46.915	22.700	22.696	1.736	-0.640	7.649	66.400
325	287	14.350	47.079	12.240	12.236	1.186	-0.590	9.692	49.800
326	288	14.400	47.244	48.530	48.530	2.185	0.000	4.502	47.700
327	289	14.450	47.408	40.950	40.970	2.586	3.230	6.312	40.300
328	290	14.500	47.572	41.250	41.266	2.110	2.600	5.113	33.500
329	291	14.550	47.736	8.700	8.744	0.828	7.060	9.469	41.400
330	292	14.600	47.900	12.960	13.003	0.626	6.860	4.814	47.300
331	293	14.650	48.064	25.490	25.514	0.678	3.910	2.657	51.200
332	294	14.700	48.228	37.160	37.213	0.798	8.410	2.144	49.000
333	295	14.750	48.392	54.040	54.087	1.193	7.510	2.206	51.200
334	296	14.800	48.556	48.090	48.132	1.354	6.710	2.813	47.600
335	297	14.850	48.720	59.200	59.239	1.966	6.200	3.319	36.100
336	298	14.900	48.884	62.810	62.858	2.078	7.660	3.306	26.200
337	299	14.950	49.048	29.770	29.802	2.345	5.180	7.869	23.900
338	300	15.000	49.212	27.390	27.487	2.146	15.490	7.807	21.700
339	301	15.050	49.376	38.330	38.597	1.986	42.840	5.145	16.600
340	302	15.100	49.540	51.200	51.449	1.776	39.910	3.452	27.200
341	303	15.150	49.704	31.890	31.990	1.652	15.990	5.164	18.800
342	304	15.200	49.868	32.780	32.867	1.235	13.940	3.758	27.400
343	305	15.250	50.032	27.800	27.925	1.180	20.060	4.226	27.300
344	306	15.300	50.196	23.820	23.955	0.967	21.630	4.037	26.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	17.270	17.331	0.795	9.720	4.587	25.700
346	308	15.400	50.524	20.420	20.511	0.705	14.540	3.437	29.800
347	309	15.450	50.688	43.210	43.265	0.872	8.860	2.015	30.400
348	310	15.500	50.852	66.880	66.953	1.264	11.700	1.888	37.900
349	311	15.550	51.016	38.400	38.434	1.454	5.380	3.783	46.700
350	312	15.600	51.180	57.050	57.103	1.478	8.520	2.588	55.900
351	313	15.650	51.345	50.430	50.501	1.621	11.390	3.210	70.400
352	314	15.700	51.509	49.510	49.504	1.734	-0.900	3.503	70.800
353	315	15.750	51.673	58.350	58.342	1.936	-1.220	3.318	78.400
354	316	15.800	51.837	57.900	57.891	2.559	-1.520	4.420	64.600
355	317	15.850	52.001	31.980	31.985	2.226	0.750	6.960	68.800
356	318	15.900	52.165	41.370	41.379	1.427	1.480	3.449	51.100
357	319	15.950	52.329	40.770	40.781	1.151	1.730	2.822	58.500
358	320	16.000	52.493	41.030	41.037	1.164	1.080	2.836	39.700
359	321	16.050	52.657	46.980	46.985	1.474	0.760	3.137	36.300
360	322	16.100	52.821	40.190	40.211	1.656	3.350	4.118	46.700
361	323	16.150	52.985	30.120	30.142	1.549	3.450	5.139	43.100
362	324	16.200	53.149	41.510	41.532	1.484	3.520	3.573	45.500
363	325	16.250	53.313	46.390	46.410	1.332	3.170	2.870	49.900
364	326	16.300	53.477	20.800	20.827	1.039	4.360	4.989	63.400
365	327	16.350	53.641	17.530	17.557	0.920	4.310	5.240	66.500
366	328	16.400	53.805	22.990	23.009	0.850	3.040	3.694	75.900
367	329	16.450	53.969	15.360	15.359	0.759	-0.090	4.942	62.000
368	330	16.500	54.133	20.320	20.321	0.836	0.150	4.114	56.500
369	331	16.550	54.297	29.690	29.689	0.769	-0.110	2.590	57.000
370	332	16.600	54.461	31.580	31.579	0.693	-0.210	2.195	56.400
371	333	16.650	54.625	8.010	8.023	0.599	2.080	7.466	34.800
372	334	16.700	54.789	20.300	20.311	0.678	1.790	3.338	38.000
373	335	16.750	54.953	37.440	37.471	1.114	5.010	2.973	33.200
374	336	16.800	55.117	40.230	40.262	1.732	5.060	4.302	31.000
375	337	16.850	55.281	47.200	47.241	2.073	6.620	4.388	37.200
376	338	16.900	55.446	83.830	83.870	1.913	6.450	2.281	34.800
377	339	16.950	55.610	56.230	56.269	2.308	6.170	4.102	39.900
378	340	17.000	55.774	54.040	54.079	2.108	6.290	3.898	51.600
379	341	17.050	55.938	34.580	34.618	1.575	6.070	4.550	55.300
380	342	17.100	56.102	30.760	30.809	1.734	7.790	5.628	66.000
381	343	17.150	56.266	57.730	57.786	1.770	9.030	3.063	71.700
382	344	17.200	56.430	70.710	70.763	1.978	8.560	2.795	69.600
383	345	17.250	56.594	63.580	63.621	1.908	6.540	2.999	66.200
384	346	17.300	56.758	36.860	36.879	1.898	2.980	5.147	45.600
385	347	17.350	56.922	59.680	59.700	2.255	3.270	3.777	37.200
386	348	17.400	57.086	58.150	58.184	2.279	5.460	3.917	29.100
387	349	17.450	57.250	85.030	85.079	2.958	7.890	3.477	16.700
388	350	17.500	57.414	69.710	69.766	3.111	8.920	4.459	19.800
389	351	17.550	57.578	72.210	72.268	3.329	9.330	4.606	23.200
390	352	17.600	57.742	79.900	79.948	2.346	7.710	2.934	27.800
391	353	17.650	57.906	31.870	31.918	2.656	7.690	8.321	25.600
392	354	17.700	58.070	21.960	22.026	2.635	10.610	11.963	31.400
393	355	17.750	58.234	50.490	50.551	2.080	9.790	4.115	28.700
394	356	17.800	58.398	54.020	54.088	2.800	10.950	5.177	31.100
395	357	17.850	58.562	188.540	188.655	2.430	18.380	1.288	32.600
396	358	17.900	58.726	100.090	100.179	3.503	14.260	3.497	33.700
397	359	17.950	58.890	102.970	102.998	2.859	4.460	2.776	32.300
398	360	18.000	59.054	99.990	100.054	2.388	10.190	2.387	43.400
399	361	18.050	59.218	93.990	94.037	2.123	7.500	2.258	50.700
400	362	18.100	59.382	70.680	70.756	1.754	12.180	2.479	57.500
401	363	18.150	59.547	81.170	81.252	1.767	13.150	2.175	67.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	93.780	93.853	1.363	11.760	1.452	71.600
403	365	18.250	59.875	97.630	97.703	1.332	11.620	1.363	79.900
404	366	18.300	60.039	93.420	93.490	1.341	11.180	1.434	82.800
405	367	18.350	60.203	91.690	91.758	1.291	10.850	1.407	87.200
406	368	18.400	60.367	89.450	89.517	1.299	10.730	1.451	83.000
407	369	18.450	60.531	99.140	99.208	1.553	10.930	1.565	80.300
408	370	18.500	60.695	110.390	110.455	2.027	10.470	1.835	83.400
409	371	18.550	60.859	115.100	115.165	2.378	10.360	2.065	84.500
410	372	18.600	61.023	122.650	122.717	2.665	10.750	2.172	77.400
411	373	18.650	61.187	142.540	142.608	2.791	10.850	1.957	80.000
412	374	18.700	61.351	121.250	121.317	2.614	10.770	2.155	82.500
413	375	18.750	61.515	96.690	96.760	2.398	11.140	2.478	81.900
414	376	18.800	61.679	90.810	90.876	2.316	10.520	2.549	86.100
415	377	18.850	61.843	84.810	84.875	2.686	10.430	3.165	89.400
416	378	18.900	62.007	80.890	80.957	2.897	10.730	3.578	77.700
417	379	18.950	62.171	74.920	74.989	2.478	11.000	3.304	84.300
418	380	19.000	62.335	90.230	90.326	2.618	15.410	2.898	80.600
419	381	19.050	62.499	106.930	107.020	2.758	14.410	2.577	88.600
420	382	19.100	62.663	103.610	103.688	2.754	12.450	2.656	89.200
421	383	19.150	62.827	105.300	105.365	3.417	10.420	3.243	90.600
422	384	19.200	62.991	92.180	92.239	3.093	9.510	3.353	88.900
423	385	19.250	63.155	84.520	84.585	2.743	10.360	3.243	68.100
424	386	19.300	63.319	69.410	69.464	1.794	8.650	2.583	62.400
425	387	19.350	63.483	55.490	55.534	1.132	7.020	2.038	51.200
426	388	19.400	63.648	44.100	44.151	1.490	8.150	3.375	36.400
427	389	19.450	63.812	55.120	55.198	2.128	12.490	3.855	25.600
428	390	19.500	63.976	60.280	60.362	2.313	13.150	3.832	24.100
429	391	19.550	64.140	70.540	70.638	2.723	15.720	3.855	26.700
430	392	19.600	64.304	74.660	74.756	2.684	15.380	3.590	33.000
431	393	19.650	64.468	55.760	55.874	2.698	18.300	4.829	36.300
432	394	19.700	64.632	74.220	74.351	2.528	21.040	3.400	46.900
433	395	19.750	64.796	50.760	50.905	2.129	23.300	4.182	51.200
434	396	19.800	64.960	35.740	35.867	1.791	20.360	4.993	66.900
435	397	19.850	65.124	48.650	48.777	1.397	20.330	2.864	70.500
436	398	19.900	65.288	73.290	73.416	1.605	20.140	2.186	66.200
437	399	19.950	65.452	60.720	60.832	1.960	17.920	3.222	61.100
438	400	20.000	65.616	71.500	71.606	2.728	17.000	3.810	56.000
439	401	20.050	65.780	65.380	65.484	2.078	16.690	3.173	50.000
440	402	20.100	65.944	183.140	183.231	4.226	14.600	2.306	49.600
441	403	20.150	66.108	137.880	137.904	4.500	3.780	3.263	42.300
442	404	20.200	66.272	68.640	68.670	4.218	4.770	6.142	46.500
443	405	20.250	66.436	41.060	41.100	2.400	6.390	5.839	43.500
444	406	20.300	66.600	83.170	83.218	2.803	7.670	3.368	43.100
445	407	20.350	66.764	86.600	86.656	2.757	9.040	3.182	37.800
446	408	20.400	66.928	68.720	68.761	3.259	6.530	4.740	45.900
447	409	20.450	67.092	104.490	104.594	3.050	16.730	2.916	48.200
448	410	20.500	67.256	61.570	61.606	2.588	5.690	4.201	63.700
449	411	20.550	67.420	52.560	52.553	1.848	-1.180	3.516	60.600
450	412	20.600	67.584	38.870	38.862	1.681	-1.320	4.326	66.400
451	413	20.650	67.749	37.240	37.238	1.750	-0.340	4.700	61.400
452	414	20.700	67.913	64.150	64.154	1.701	0.580	2.651	51.400
453	415	20.750	68.077	36.550	36.560	1.780	1.680	4.869	45.200
454	416	20.800	68.241	37.290	37.301	1.921	1.790	5.150	31.100
455	417	20.850	68.405	55.690	55.704	2.238	2.230	4.018	24.000
456	418	20.900	68.569	48.020	48.032	2.794	1.960	5.817	21.900
457	419	20.950	68.733	55.620	55.635	3.091	2.330	5.556	19.800
458	420	21.000	68.897	96.170	96.188	3.227	2.810	3.355	20.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	82.260	82.284	2.488	3.840	3.024	16.800
460	422	21.100	69.225	84.900	84.925	2.058	3.980	2.423	23.700
461	423	21.150	69.389	83.250	83.274	1.268	3.910	1.523	24.000
462	424	21.200	69.553	63.020	63.041	1.201	3.380	1.905	21.600
463	425	21.250	69.717	61.440	61.459	0.898	3.060	1.461	21.700
464	426	21.300	69.881	63.430	63.451	0.845	3.400	1.332	17.900
465	427	21.350	70.045	47.850	47.868	0.871	2.910	1.820	21.300
466	428	21.400	70.209	50.780	50.802	1.306	3.500	2.571	20.200
467	429	21.450	70.373	49.100	49.129	2.001	4.660	4.073	21.800
468	430	21.500	70.537	52.700	52.734	2.888	5.470	5.477	15.000
469	431	21.550	70.701	105.000	105.050	3.735	7.940	3.555	13.400
470	432	21.600	70.865	111.880	111.967	3.531	13.960	3.154	14.600
471	433	21.650	71.029	120.620	120.712	3.700	14.700	3.065	15.900
472	434	21.700	71.193	121.590	121.644	4.336	8.620	3.565	15.300
473	435	21.750	71.357	145.110	145.176	4.402	10.630	3.032	21.100
474	436	21.800	71.521	116.680	116.757	4.352	12.270	3.727	26.400
475	437	21.850	71.685	111.160	111.234	3.581	11.900	3.219	24.900
476	438	21.900	71.850	124.820	124.896	3.082	12.170	2.468	34.900
477	439	21.950	72.014	102.790	102.860	2.553	11.200	2.482	41.700
478	440	22.000	72.178	60.340	60.403	2.162	10.170	3.579	53.900
479	441	22.050	72.342	83.550	83.616	1.931	10.610	2.309	58.500
480	442	22.100	72.506	96.750	96.813	1.340	10.080	1.384	68.700
481	443	22.150	72.670	49.410	49.471	1.528	9.730	3.089	67.000
482	444	22.200	72.834	65.750	65.811	1.357	9.810	2.062	70.400
483	445	22.250	72.998	89.910	89.973	1.098	10.100	1.220	67.900
484	446	22.300	73.162	117.910	117.972	1.871	9.910	1.586	66.400
485	447	22.350	73.326	91.790	91.842	1.900	8.280	2.069	58.000
486	448	22.400	73.490	54.080	54.115	1.752	5.660	3.238	61.400
487	449	22.450	73.654	55.900	55.935	1.960	5.590	3.504	59.600
488	450	22.500	73.818	71.790	71.826	2.500	5.730	3.481	62.100
489	451	22.550	73.982	63.450	63.485	3.186	5.620	5.019	66.300
490	452	22.600	74.146	65.390	65.426	2.565	5.700	3.920	76.600
491	453	22.650	74.310	81.940	81.983	1.893	6.940	2.309	94.000
492	454	22.700	74.474	112.330	112.390	2.100	9.660	1.868	143.600
493	455	22.750	74.638	136.910	136.945	2.642	5.670	1.929	197.400
494	456	22.800	74.802	53.030	53.081	2.067	8.160	3.894	288.100
495	457	22.850	74.966	27.160	27.204	1.409	7.120	5.179	409.100
496	458	22.900	75.130	30.080	30.152	0.999	11.600	3.313	611.000
497	459	22.950	75.294	64.140	64.211	1.342	11.350	2.090	733.800
498	460	23.000	75.458	118.590	118.631	2.680	6.490	2.259	669.300
499	461	23.050	75.622	123.030	123.075	3.559	7.220	2.892	439.600
500	462	23.100	75.786	126.460	126.510	3.315	7.990	2.620	0.000
501	463	23.150	75.951	82.860	82.949	2.898	14.180	3.494	0.000
502	464	23.200	76.115	61.910	62.002	2.434	14.790	3.926	0.000
503	465	23.250	76.279	65.280	65.353	1.563	11.660	2.392	0.000
504	466	23.300	76.443	44.030	44.094	1.137	10.180	2.579	0.000
505	467	23.350	76.607	32.780	32.841	1.049	9.830	3.194	0.000
506	468	23.400	76.771	29.240	29.294	1.118	8.580	3.817	0.000
507	469	23.450	76.935	33.360	33.417	1.232	9.190	3.687	0.000
508	470	23.500	77.099	35.110	35.168	1.193	9.280	3.392	0.000
509	471	23.550	77.263	31.390	31.447	1.496	9.060	4.757	0.000
510	472	23.600	77.427	39.590	39.649	1.486	9.500	3.748	0.000
511	473	23.650	77.591	87.950	88.015	2.177	10.450	2.473	0.000
512	474	23.700	77.755	86.930	87.003	2.535	11.740	2.914	0.000
513	475	23.750	77.919	78.850	78.944	0.000	15.110	0.000	0.000
514	476	23.800	78.083	147.620	147.659	0.000	6.280	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272398				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-09A				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-14-2015				
14		CPT Time:			03:53				
15		CPT File:			15-53039_GP1D-09A.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722129.680				
31		Northing / Lat:			4294190.570				
32		Elevation:			157.980				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	22.420	22.412	0.050	-1.330	0.223	27.000
40	2	0.100	0.328	25.330	25.375	0.119	7.250	0.469	32.300
41	3	0.150	0.492	34.770	34.777	0.074	1.050	0.213	37.700
42	4	0.200	0.656	14.720	14.711	0.129	-1.500	0.877	48.800
43	5	0.250	0.820	11.130	11.135	0.188	0.810	1.688	62.700
44	6	0.300	0.984	9.550	9.572	0.246	3.530	2.570	70.400
45	7	0.350	1.148	14.120	14.132	0.294	1.970	2.080	76.800
46	8	0.400	1.312	13.110	13.058	0.318	-8.360	2.435	72.500
47	9	0.450	1.476	15.460	15.421	0.275	-6.170	1.783	83.800
48	10	0.500	1.640	20.370	20.326	0.330	-7.020	1.624	83.900
49	11	0.550	1.804	18.550	18.475	0.391	-11.950	2.116	79.700
50	12	0.600	1.968	16.060	15.969	0.401	-14.530	2.511	99.000
51	13	0.650	2.133	12.580	12.483	0.351	-15.580	2.812	91.000
52	14	0.700	2.297	9.430	9.335	0.288	-15.270	3.085	81.400
53	15	0.750	2.461	6.870	6.779	0.237	-14.640	3.496	79.700
54	16	0.800	2.625	5.210	5.122	0.209	-14.110	4.081	88.600
55	17	0.850	2.789	4.600	4.515	0.170	-13.590	3.765	89.600
56	18	0.900	2.953	4.250	4.170	0.186	-12.890	4.461	88.300
57	19	0.950	3.117	4.610	4.533	0.165	-12.270	3.640	80.500
58	20	1.000	3.281	5.200	5.130	0.167	-11.250	3.256	76.200
59	21	1.050	3.445	5.840	5.777	0.175	-10.120	3.029	88.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	8.490	8.433	0.242	-9.210	2.870	96.500
61	23	1.150	3.773	14.770	14.726	0.295	-7.050	2.003	76.100
62	24	1.200	3.937	15.840	15.803	0.439	-5.980	2.778	94.600
63	25	1.250	4.101	23.680	23.638	0.601	-6.660	2.542	83.500
64	26	1.300	4.265	28.060	28.000	0.706	-9.640	2.521	82.100
65	27	1.350	4.429	31.020	30.945	0.706	-11.990	2.281	71.400
66	28	1.400	4.593	26.100	26.020	0.684	-12.880	2.629	77.900
67	29	1.450	4.757	18.480	18.396	0.490	-13.440	2.664	70.400
68	30	1.500	4.921	42.350	42.285	0.294	-10.460	0.695	56.900
69	31	1.550	5.085	46.920	46.925	0.411	0.740	0.876	58.300
70	32	1.600	5.249	33.810	33.829	0.508	3.080	1.502	51.300
71	33	1.650	5.413	21.640	21.655	0.522	2.460	2.410	51.400
72	34	1.700	5.577	18.950	18.942	0.488	-1.330	2.576	55.600
73	35	1.750	5.741	14.310	14.417	0.466	17.160	3.232	51.100
74	36	1.800	5.905	16.840	16.805	0.452	-5.590	2.690	75.700
75	37	1.850	6.069	15.390	15.316	0.468	-11.790	3.056	73.000
76	38	1.900	6.234	15.580	15.496	0.699	-13.440	4.511	78.200
77	39	1.950	6.398	21.140	21.065	0.901	-11.990	4.277	70.800
78	40	2.000	6.562	43.520	43.431	0.856	-14.190	1.971	52.600
79	41	2.050	6.726	128.100	128.094	1.601	-0.990	1.250	44.500
80	42	2.100	6.890	206.950	206.944	3.446	-0.930	1.665	40.600
81	43	2.150	7.054	143.760	143.768	3.066	1.210	2.133	34.100
82	44	2.200	7.218	81.860	81.862	2.049	0.350	2.503	26.600
83	45	2.250	7.382	94.490	94.509	1.204	3.080	1.274	28.200
84	46	2.300	7.546	117.140	117.202	1.329	9.860	1.134	27.500
85	47	2.350	7.710	58.610	58.729	1.008	19.040	1.716	33.600
86	48	2.400	7.874	48.570	48.609	0.930	6.170	1.913	29.600
87	49	2.450	8.038	37.630	37.631	0.733	0.160	1.948	30.900
88	50	2.500	8.202	41.500	41.489	0.713	-1.810	1.719	33.000
89	51	2.550	8.366	40.680	40.701	0.957	3.350	2.351	30.500
90	52	2.600	8.530	31.550	31.662	0.903	17.890	2.852	36.300
91	53	2.650	8.694	44.980	45.093	1.006	18.060	2.231	37.200
92	54	2.700	8.858	46.340	46.419	1.001	12.640	2.156	38.400
93	55	2.750	9.022	41.800	41.909	1.410	17.480	3.364	32.100
94	56	2.800	9.186	91.730	91.728	2.486	-0.250	2.710	25.600
95	57	2.850	9.350	162.140	162.240	2.548	16.030	1.571	16.000
96	58	2.900	9.514	129.560	129.598	1.917	6.040	1.479	15.800
97	59	2.950	9.678	43.660	43.919	1.524	41.500	3.470	19.200
98	60	3.000	9.842	67.720	67.812	1.612	14.780	2.377	18.400
99	61	3.050	10.006	88.080	88.262	1.173	29.150	1.329	14.700
100	62	3.100	10.170	155.390	155.508	1.233	18.910	0.793	14.800
101	63	3.150	10.335	123.170	123.144	2.283	-4.150	1.854	14.200
102	64	3.200	10.499	106.990	107.040	1.816	7.950	1.697	14.000
103	65	3.250	10.663	146.830	146.907	1.004	12.320	0.683	16.400
104	66	3.300	10.827	125.490	125.559	1.587	11.000	1.264	12.100
105	67	3.350	10.991	110.300	110.412	1.104	17.900	1.000	14.800
106	68	3.400	11.155	83.830	83.856	1.293	4.110	1.542	16.000
107	69	3.450	11.319	37.430	37.437	0.427	1.140	1.141	17.300
108	70	3.500	11.483	48.730	48.734	0.607	0.600	1.246	20.700
109	71	3.550	11.647	72.230	72.234	0.486	0.710	0.673	23.100
110	72	3.600	11.811	86.260	86.298	0.834	6.050	0.966	20.200
111	73	3.650	11.975	101.150	101.170	0.615	3.140	0.608	19.000
112	74	3.700	12.139	119.890	119.914	0.198	3.890	0.165	17.000
113	75	3.750	12.303	49.180	49.185	0.370	0.850	0.752	20.700
114	76	3.800	12.467	39.080	39.084	0.408	0.710	1.044	25.900
115	77	3.850	12.631	16.950	16.953	0.423	0.460	2.495	21.500
116	78	3.900	12.795	32.410	32.415	0.523	0.780	1.613	24.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	16.100	16.099	0.347	-0.150	2.155	28.100
118	80	4.000	13.123	17.120	17.127	0.315	1.080	1.839	33.900
119	81	4.050	13.287	12.760	12.762	0.173	0.390	1.356	40.400
120	82	4.100	13.451	21.780	21.785	0.337	0.860	1.547	39.100
121	83	4.150	13.615	44.050	44.056	0.495	0.900	1.124	45.700
122	84	4.200	13.779	25.430	25.433	0.484	0.440	1.903	61.400
123	85	4.250	13.943	20.870	20.881	0.361	1.840	1.729	57.600
124	86	4.300	14.107	36.200	36.231	0.244	4.970	0.673	75.400
125	87	4.350	14.271	48.050	48.055	0.184	0.780	0.383	65.100
126	88	4.400	14.436	37.090	37.095	0.118	0.740	0.318	60.800
127	89	4.450	14.600	27.000	26.998	0.084	-0.320	0.311	61.700
128	90	4.500	14.764	18.880	18.881	0.061	0.100	0.323	51.600
129	91	4.550	14.928	13.420	13.427	0.054	1.070	0.402	65.600
130	92	4.600	15.092	17.040	17.043	0.081	0.550	0.475	55.600
131	93	4.650	15.256	20.930	20.934	0.295	0.650	1.409	52.300
132	94	4.700	15.420	25.580	25.611	0.292	4.980	1.140	51.600
133	95	4.750	15.584	15.840	15.843	0.318	0.410	2.007	46.200
134	96	4.800	15.748	12.270	12.271	0.309	0.110	2.518	42.100
135	97	4.850	15.912	13.070	13.078	0.347	1.300	2.653	40.800
136	98	4.900	16.076	23.810	23.808	0.851	-0.290	3.574	33.200
137	99	4.950	16.240	67.490	67.586	1.258	15.340	1.861	33.400
138	100	5.000	16.404	94.370	94.687	2.396	50.750	2.530	19.400
139	101	5.050	16.568	92.210	92.198	2.939	-1.960	3.188	29.600
140	102	5.100	16.732	27.950	27.940	2.553	-1.600	9.137	26.300
141	103	5.150	16.896	12.580	12.571	2.025	-1.470	16.109	28.400
142	104	5.200	17.060	18.660	18.678	0.881	2.860	4.717	30.500
143	105	5.250	17.224	46.340	46.351	0.805	1.830	1.737	31.900
144	106	5.300	17.388	87.770	87.775	1.150	0.740	1.310	26.800
145	107	5.350	17.552	47.220	47.243	1.135	3.760	2.402	30.700
146	108	5.400	17.716	33.420	33.468	1.063	7.760	3.176	19.300
147	109	5.450	17.880	29.760	29.787	0.763	4.270	2.562	20.800
148	110	5.500	18.044	56.580	56.626	0.945	7.440	1.669	23.500
149	111	5.550	18.208	101.630	101.672	1.169	6.760	1.150	21.300
150	112	5.600	18.372	74.620	74.619	1.512	-0.210	2.026	19.900
151	113	5.650	18.537	64.610	64.632	1.409	3.570	2.180	22.100
152	114	5.700	18.701	58.720	58.827	1.116	17.070	1.897	27.800
153	115	5.750	18.865	46.240	46.266	0.842	4.240	1.820	24.900
154	116	5.800	19.029	53.020	53.133	1.077	18.050	2.027	28.400
155	117	5.850	19.193	69.560	69.629	1.217	11.020	1.748	28.600
156	118	5.900	19.357	67.730	67.711	1.355	-2.990	2.001	35.700
157	119	5.950	19.521	182.370	182.373	1.984	0.530	1.088	32.800
158	120	6.000	19.685	263.460	263.554	0.459	15.120	0.174	34.700
159	121	6.050	19.849	320.790	320.860	1.743	11.270	0.543	52.900
160	122	6.100	20.013	172.370	172.399	2.134	4.710	1.238	54.800
161	123	6.150	20.177	59.260	59.327	1.809	10.700	3.049	62.400
162	124	6.200	20.341	60.070	60.163	1.381	14.920	2.295	77.300
163	125	6.250	20.505	31.660	31.806	1.316	23.360	4.138	87.900
164	126	6.300	20.669	27.190	27.192	0.998	0.330	3.670	93.700
165	127	6.350	20.833	21.310	21.288	0.882	-3.570	4.143	84.800
166	128	6.400	20.997	20.880	20.853	0.698	-4.280	3.347	89.100
167	129	6.450	21.161	15.280	15.243	0.486	-5.970	3.188	93.100
168	130	6.500	21.325	11.700	11.677	0.467	-3.650	3.999	91.700
169	131	6.550	21.489	11.840	11.829	0.370	-1.730	3.128	85.100
170	132	6.600	21.653	24.260	24.256	0.517	-0.570	2.131	67.400
171	133	6.650	21.817	27.400	27.388	0.873	-1.900	3.188	62.500
172	134	6.700	21.981	40.480	40.490	1.014	1.530	2.504	51.500
173	135	6.750	22.145	38.790	39.022	0.985	37.200	2.524	39.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	36.860	36.884	1.046	3.880	2.836	35.400
175	137	6.850	22.473	29.250	29.271	0.925	3.350	3.160	33.500
176	138	6.900	22.638	27.010	27.100	0.931	14.490	3.435	27.100
177	139	6.950	22.802	72.920	72.983	1.121	10.030	1.536	26.000
178	140	7.000	22.966	48.050	48.155	1.866	16.800	3.875	24.800
179	141	7.050	23.130	78.710	79.076	1.801	58.670	2.278	26.400
180	142	7.100	23.294	73.480	73.577	1.820	15.510	2.474	28.900
181	143	7.150	23.458	102.820	102.907	1.736	13.940	1.687	39.800
182	144	7.200	23.622	55.660	55.722	1.276	9.900	2.290	50.300
183	145	7.250	23.786	34.050	34.494	1.369	71.160	3.969	56.600
184	146	7.300	23.950	38.670	39.117	1.159	71.650	2.963	73.500
185	147	7.350	24.114	63.610	64.022	1.240	66.060	1.937	54.500
186	148	7.400	24.278	70.990	71.319	1.378	52.690	1.932	50.500
187	149	7.450	24.442	58.600	58.704	1.464	16.710	2.494	42.000
188	150	7.500	24.606	112.010	112.272	1.555	41.970	1.385	40.500
189	151	7.550	24.770	158.100	158.186	1.435	13.810	0.907	36.800
190	152	7.600	24.934	69.270	69.349	1.351	12.650	1.948	34.900
191	153	7.650	25.098	87.540	87.625	1.351	13.680	1.542	26.400
192	154	7.700	25.262	105.220	105.282	0.887	9.930	0.842	22.500
193	155	7.750	25.426	84.190	84.333	0.827	22.830	0.981	16.100
194	156	7.800	25.590	76.550	76.563	0.703	2.160	0.918	16.000
195	157	7.850	25.754	38.910	38.944	0.695	5.490	1.785	14.100
196	158	7.900	25.918	64.680	64.720	0.853	6.410	1.318	15.300
197	159	7.950	26.082	140.650	140.730	1.213	12.860	0.862	7.500
198	160	8.000	26.246	88.610	88.617	1.185	1.190	1.337	10.900
199	161	8.050	26.410	76.800	76.831	0.885	4.970	1.152	10.200
200	162	8.100	26.574	54.100	54.098	0.786	-0.330	1.453	11.000
201	163	8.150	26.739	30.180	30.196	0.787	2.600	2.606	6.000
202	164	8.200	26.903	60.380	60.413	0.800	5.330	1.324	11.900
203	165	8.250	27.067	67.720	67.787	0.949	10.730	1.400	15.800
204	166	8.300	27.231	44.330	44.328	0.947	-0.320	2.136	11.400
205	167	8.350	27.395	78.160	78.169	0.776	1.390	0.993	7.900
206	168	8.400	27.559	53.290	53.287	0.749	-0.530	1.406	16.400
207	169	8.450	27.723	69.170	69.202	0.902	5.150	1.303	16.600
208	170	8.500	27.887	53.230	53.259	1.100	4.640	2.065	13.400
209	171	8.550	28.051	60.600	60.619	0.818	3.010	1.349	13.300
210	172	8.600	28.215	167.050	167.070	1.120	3.270	0.670	10.400
211	173	8.650	28.379	143.420	143.438	1.360	2.900	0.948	11.400
212	174	8.700	28.543	70.620	70.624	1.182	0.720	1.674	10.400
213	175	8.750	28.707	83.320	83.348	1.171	4.500	1.405	15.900
214	176	8.800	28.871	128.590	128.583	1.305	-1.080	1.015	15.000
215	177	8.850	29.035	80.560	80.557	1.244	-0.490	1.544	17.800
216	178	8.900	29.199	24.600	24.605	0.914	0.850	3.715	8.000
217	179	8.950	29.363	44.920	44.930	0.600	1.570	1.335	15.400
218	180	9.000	29.527	32.820	32.820	0.771	0.000	2.349	15.500
219	181	9.050	29.691	47.100	47.094	0.674	-0.990	1.431	14.600
220	182	9.100	29.855	51.090	51.098	0.606	1.310	1.186	12.300
221	183	9.150	30.019	51.600	51.681	0.712	12.940	1.378	13.700
222	184	9.200	30.183	98.070	98.095	0.652	3.980	0.665	10.200
223	185	9.250	30.347	81.120	81.115	0.829	-0.810	1.022	17.600
224	186	9.300	30.511	82.970	82.963	0.828	-1.080	0.998	14.000
225	187	9.350	30.675	70.800	70.824	0.871	3.890	1.230	12.400
226	188	9.400	30.840	56.060	56.065	0.657	0.860	1.172	12.000
227	189	9.450	31.004	50.660	50.681	0.576	3.410	1.137	11.400
228	190	9.500	31.168	32.360	32.361	0.380	0.140	1.174	13.300
229	191	9.550	31.332	15.100	15.098	0.641	-0.350	4.246	12.900
230	192	9.600	31.496	55.140	55.144	0.375	0.630	0.680	19.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	38.080	38.079	0.420	-0.180	1.103	16.800
232	194	9.700	31.824	36.330	36.345	0.483	2.430	1.329	14.900
233	195	9.750	31.988	48.040	48.045	0.586	0.830	1.220	12.900
234	196	9.800	32.152	41.210	41.209	0.623	-0.180	1.512	18.700
235	197	9.850	32.316	31.020	30.982	0.621	-6.070	2.004	22.300
236	198	9.900	32.480	49.770	49.772	0.837	0.370	1.682	21.800
237	199	9.950	32.644	41.210	41.213	0.654	0.430	1.587	18.600
238	200	10.000	32.808	60.560	60.563	1.509	0.480	2.492	21.000
239	201	10.050	32.972	108.660	108.660	1.380	0.060	1.270	27.800
240	202	10.100	33.136	27.980	27.961	1.131	-3.060	4.045	20.200
241	203	10.150	33.300	86.410	86.404	1.008	-0.950	1.167	26.600
242	204	10.200	33.464	79.310	79.323	0.736	2.010	0.928	35.600
243	205	10.250	33.628	38.600	38.598	0.693	-0.370	1.795	34.800
244	206	10.300	33.792	24.480	24.484	0.317	0.600	1.295	44.900
245	207	10.350	33.956	23.550	23.543	0.533	-1.100	2.264	49.900
246	208	10.400	34.120	23.210	23.213	0.478	0.430	2.059	59.300
247	209	10.450	34.284	17.550	17.570	0.404	3.270	2.299	57.700
248	210	10.500	34.448	15.920	15.920	0.338	-0.070	2.123	57.300
249	211	10.550	34.612	13.730	13.728	0.328	-0.290	2.389	57.000
250	212	10.600	34.776	19.670	19.665	0.235	-0.860	1.195	55.900
251	213	10.650	34.941	27.480	27.477	0.245	-0.550	0.892	54.700
252	214	10.700	35.105	26.030	26.047	0.274	2.680	1.052	55.800
253	215	10.750	35.269	14.940	14.933	0.270	-1.100	1.808	37.200
254	216	10.800	35.433	11.940	11.933	0.220	-1.190	1.844	39.000
255	217	10.850	35.597	14.050	14.048	0.425	-0.360	3.025	42.400
256	218	10.900	35.761	58.610	58.608	1.078	-0.280	1.839	40.200
257	219	10.950	35.925	81.240	81.277	1.352	5.980	1.663	38.500
258	220	11.000	36.089	108.730	108.771	1.101	6.640	1.012	34.200
259	221	11.050	36.253	77.750	77.764	1.656	2.190	2.130	33.400
260	222	11.100	36.417	84.210	84.246	1.449	5.810	1.720	43.800
261	223	11.150	36.581	122.050	122.105	2.030	8.760	1.663	46.800
262	224	11.200	36.745	79.480	79.624	2.073	23.010	2.603	42.300
263	225	11.250	36.909	70.170	70.228	1.986	9.370	2.828	47.200
264	226	11.300	37.073	100.790	100.834	1.451	7.000	1.439	51.600
265	227	11.350	37.237	81.700	81.719	1.259	3.120	1.541	66.600
266	228	11.400	37.401	51.800	51.828	1.440	4.410	2.778	84.300
267	229	11.450	37.565	48.620	48.648	1.292	4.520	2.656	91.200
268	230	11.500	37.729	47.850	47.881	1.268	4.900	2.648	80.800
269	231	11.550	37.893	46.360	46.372	1.163	1.940	2.508	87.700
270	232	11.600	38.057	40.720	40.684	1.165	-5.690	2.863	80.600
271	233	11.650	38.221	36.450	36.448	1.136	-0.360	3.117	87.700
272	234	11.700	38.385	30.770	30.764	1.092	-0.900	3.550	79.800
273	235	11.750	38.549	29.160	29.166	1.263	1.020	4.330	77.900
274	236	11.800	38.713	35.260	35.269	1.049	1.470	2.974	63.500
275	237	11.850	38.877	43.230	43.236	1.226	0.960	2.836	42.800
276	238	11.900	39.042	38.720	38.732	1.159	1.890	2.992	56.900
277	239	11.950	39.206	52.370	52.402	1.376	5.060	2.626	43.300
278	240	12.000	39.370	45.990	46.059	1.683	11.060	3.654	41.700
279	241	12.050	39.534	58.560	58.620	1.745	9.690	2.977	42.000
280	242	12.100	39.698	57.320	57.369	1.723	7.920	3.003	40.100
281	243	12.150	39.862	47.770	48.252	1.641	77.140	3.401	51.800
282	244	12.200	40.026	28.840	29.307	1.394	74.830	4.757	59.700
283	245	12.250	40.190	31.360	31.876	1.126	82.630	3.532	66.200
284	246	12.300	40.354	40.240	40.744	1.047	80.710	2.570	79.300
285	247	12.350	40.518	62.140	62.636	1.111	79.440	1.774	85.500
286	248	12.400	40.682	80.740	80.804	1.117	10.230	1.382	87.700
287	249	12.450	40.846	97.780	97.806	1.187	4.210	1.214	72.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	84.480	84.478	1.347	-0.320	1.594	81.600
289	251	12.550	41.174	77.640	77.680	1.477	6.480	1.901	76.000
290	252	12.600	41.338	71.620	71.647	1.482	4.300	2.068	82.300
291	253	12.650	41.502	71.020	71.045	1.212	3.980	1.706	98.900
292	254	12.700	41.666	67.840	67.831	1.028	-1.430	1.516	73.200
293	255	12.750	41.830	57.400	57.373	1.010	-4.330	1.760	64.600
294	256	12.800	41.994	42.030	41.994	1.316	-5.790	3.134	55.300
295	257	12.850	42.158	33.730	33.707	1.203	-3.700	3.569	47.100
296	258	12.900	42.322	86.100	86.127	1.704	4.320	1.978	33.900
297	259	12.950	42.486	92.520	92.549	2.085	4.630	2.253	24.300
298	260	13.000	42.650	75.700	75.757	2.427	9.170	3.204	26.900
299	261	13.050	42.814	50.670	50.684	2.054	2.210	4.053	23.400
300	262	13.100	42.978	168.710	168.881	2.400	27.470	1.421	18.100
301	263	13.150	43.143	32.370	32.334	2.326	-5.700	7.194	17.700
302	264	13.200	43.307	32.520	32.544	1.911	3.820	5.872	16.600
303	265	13.250	43.471	41.880	41.959	1.174	12.630	2.798	21.700
304	266	13.300	43.635	107.150	107.281	1.955	21.030	1.822	18.400
305	267	13.350	43.799	82.560	82.599	1.723	6.290	2.086	15.200
306	268	13.400	43.963	35.950	35.922	1.861	-4.480	5.181	22.900
307	269	13.450	44.127	29.500	29.538	0.960	6.100	3.250	21.800
308	270	13.500	44.291	25.700	25.739	0.657	6.210	2.553	17.900
309	271	13.550	44.455	21.880	21.901	0.750	3.360	3.425	24.000
310	272	13.600	44.619	29.100	29.196	0.832	15.320	2.850	21.500
311	273	13.650	44.783	26.990	27.047	0.820	9.140	3.032	22.400
312	274	13.700	44.947	11.180	11.228	0.682	7.690	6.074	28.600
313	275	13.750	45.111	22.490	22.647	0.834	25.080	3.683	44.200
314	276	13.800	45.275	52.740	52.919	0.953	28.690	1.801	48.500
315	277	13.850	45.439	26.260	26.329	1.152	11.010	4.375	52.900
316	278	13.900	45.603	54.990	55.085	1.113	15.220	2.021	54.800
317	279	13.950	45.767	62.790	62.832	1.508	6.750	2.400	36.100
318	280	14.000	45.931	59.440	59.501	1.946	9.770	3.271	28.700
319	281	14.050	46.095	101.750	101.853	2.384	16.460	2.341	29.700
320	282	14.100	46.259	66.600	66.597	2.242	-0.520	3.367	19.900
321	283	14.150	46.423	88.730	88.736	2.124	0.900	2.394	15.200
322	284	14.200	46.587	60.820	61.406	1.510	93.940	2.459	16.900
323	285	14.250	46.751	47.250	47.274	1.552	3.840	3.283	16.000
324	286	14.300	46.915	26.740	26.805	1.024	10.360	3.820	16.500
325	287	14.350	47.079	21.130	21.138	0.977	1.310	4.622	14.000
326	288	14.400	47.244	34.040	34.051	0.714	1.760	2.097	19.400
327	289	14.450	47.408	36.170	36.205	0.928	5.590	2.563	23.600
328	290	14.500	47.572	43.000	43.044	1.066	6.970	2.477	20.400
329	291	14.550	47.736	42.750	42.827	1.063	12.270	2.482	22.600
330	292	14.600	47.900	19.660	19.742	1.346	13.120	6.818	35.200
331	293	14.650	48.064	52.210	52.362	1.247	24.380	2.381	27.700
332	294	14.700	48.228	54.290	54.391	1.312	16.140	2.412	38.600
333	295	14.750	48.392	28.320	28.388	1.421	10.930	5.006	40.300
334	296	14.800	48.556	30.580	30.706	0.952	20.190	3.100	50.100
335	297	14.850	48.720	37.650	37.746	0.839	15.450	2.223	60.200
336	298	14.900	48.884	86.620	86.723	0.950	16.440	1.095	73.800
337	299	14.950	49.048	120.000	120.084	1.117	13.400	0.930	78.100
338	300	15.000	49.212	139.540	139.620	1.392	12.840	0.997	79.800
339	301	15.050	49.376	153.000	153.054	1.509	8.710	0.986	82.700
340	302	15.100	49.540	148.320	148.369	1.631	7.850	1.099	78.800
341	303	15.150	49.704	128.920	128.958	2.103	6.120	1.631	88.100
342	304	15.200	49.868	94.720	94.767	2.187	7.560	2.308	82.100
343	305	15.250	50.032	68.920	68.957	2.039	5.900	2.957	93.100
344	306	15.300	50.196	61.370	61.398	1.631	4.520	2.656	75.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	68.010	68.047	1.354	5.850	1.990	64.800
346	308	15.400	50.524	66.950	66.985	1.450	5.630	2.165	62.500
347	309	15.450	50.688	48.210	48.229	1.238	3.060	2.567	50.300
348	310	15.500	50.852	55.240	55.283	1.562	6.820	2.825	47.600
349	311	15.550	51.016	91.220	91.281	2.028	9.710	2.222	49.300
350	312	15.600	51.180	59.460	59.488	2.150	4.560	3.614	52.400
351	313	15.650	51.345	43.570	43.627	1.842	9.120	4.222	68.700
352	314	15.700	51.509	52.370	52.440	1.228	11.190	2.342	69.400
353	315	15.750	51.673	54.020	54.096	1.163	12.160	2.150	75.000
354	316	15.800	51.837	43.950	44.000	1.094	8.070	2.486	75.600
355	317	15.850	52.001	31.270	31.306	0.990	5.750	3.162	68.200
356	318	15.900	52.165	24.950	24.997	0.890	7.510	3.560	49.500
357	319	15.950	52.329	21.680	21.722	0.894	6.690	4.116	45.000
358	320	16.000	52.493	33.330	33.386	0.929	8.900	2.783	26.100
359	321	16.050	52.657	43.170	43.232	1.771	9.870	4.097	27.200
360	322	16.100	52.821	64.850	64.888	1.929	6.080	2.973	25.100
361	323	16.150	52.985	41.340	41.488	2.342	23.690	5.645	17.800
362	324	16.200	53.149	48.590	48.731	2.482	22.600	5.093	20.700
363	325	16.250	53.313	38.440	38.522	2.139	13.120	5.553	25.500
364	326	16.300	53.477	60.400	60.528	2.164	20.510	3.575	29.700
365	327	16.350	53.641	62.660	62.793	2.045	21.380	3.257	32.300
366	328	16.400	53.805	44.980	45.067	2.289	13.960	5.079	37.500
367	329	16.450	53.969	43.720	43.784	1.694	10.260	3.869	34.300
368	330	16.500	54.133	54.120	54.268	1.670	23.780	3.077	38.600
369	331	16.550	54.297	41.940	42.015	1.552	11.960	3.694	38.600
370	332	16.600	54.461	39.330	39.360	1.478	4.770	3.755	41.100
371	333	16.650	54.625	31.130	31.185	1.456	8.820	4.669	51.500
372	334	16.700	54.789	40.570	40.634	1.342	10.310	3.303	70.300
373	335	16.750	54.953	53.810	53.910	1.234	16.030	2.289	76.900
374	336	16.800	55.117	65.320	65.350	1.225	4.840	1.875	85.800
375	337	16.850	55.281	60.240	60.267	1.026	4.360	1.702	99.400
376	338	16.900	55.446	78.040	78.099	1.487	9.450	1.904	89.900
377	339	16.950	55.610	86.470	86.535	1.594	10.350	1.842	100.500
378	340	17.000	55.774	115.480	115.571	1.771	14.600	1.532	96.300
379	341	17.050	55.938	100.930	100.987	2.091	9.130	2.071	94.700
380	342	17.100	56.102	97.210	97.249	2.635	6.300	2.710	104.500
381	343	17.150	56.266	94.740	94.961	3.227	35.330	3.398	128.200
382	344	17.200	56.430	100.850	101.156	4.075	49.060	4.028	149.500
383	345	17.250	56.594	153.530	153.646	4.038	18.560	2.628	215.600
384	346	17.300	56.758	132.670	132.837	4.144	26.700	3.120	241.800
385	347	17.350	56.922	93.010	93.202	3.123	30.790	3.351	217.100
386	348	17.400	57.086	70.180	70.236	1.989	9.010	2.832	187.000
387	349	17.450	57.250	64.430	64.487	1.358	9.090	2.106	160.400
388	350	17.500	57.414	137.000	137.102	2.729	16.300	1.990	161.600
389	351	17.550	57.578	106.170	106.213	2.425	6.960	2.283	184.700
390	352	17.600	57.742	62.400	62.437	2.376	5.860	3.805	201.700
391	353	17.650	57.906	54.560	54.584	1.472	3.770	2.697	193.900
392	354	17.700	58.070	45.700	45.758	1.890	9.360	4.130	184.100
393	355	17.750	58.234	52.420	52.471	1.651	8.180	3.146	175.800
394	356	17.800	58.398	67.010	67.193	1.390	29.280	2.069	126.400
395	357	17.850	58.562	93.250	93.351	1.240	16.140	1.328	112.800
396	358	17.900	58.726	101.850	101.911	1.544	9.730	1.515	90.300
397	359	17.950	58.890	103.230	103.278	1.952	7.760	1.890	87.100
398	360	18.000	59.054	98.520	98.570	1.818	8.020	1.844	97.800
399	361	18.050	59.218	98.980	99.103	1.884	19.670	1.901	88.500
400	362	18.100	59.382	120.980	121.044	2.203	10.300	1.820	85.500
401	363	18.150	59.547	114.230	114.279	3.066	7.830	2.683	67.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	107.620	107.670	2.962	7.990	2.751	65.000
403	365	18.250	59.875	67.190	67.348	2.498	25.360	3.709	64.500
404	366	18.300	60.039	58.010	58.109	2.264	15.850	3.896	56.200
405	367	18.350	60.203	68.140	68.233	1.899	14.820	2.783	44.200
406	368	18.400	60.367	78.360	78.394	1.870	5.400	2.385	43.000
407	369	18.450	60.531	38.680	38.689	1.485	1.370	3.838	41.900
408	370	18.500	60.695	31.470	31.487	1.312	2.740	4.167	51.700
409	371	18.550	60.859	13.960	13.993	0.741	5.210	5.296	61.700
410	372	18.600	61.023	14.480	14.497	0.598	2.730	4.125	74.900
411	373	18.650	61.187	9.850	9.869	0.568	3.060	5.755	97.200
412	374	18.700	61.351	21.160	21.197	0.478	5.940	2.255	104.000
413	375	18.750	61.515	67.050	67.107	0.695	9.100	1.036	105.300
414	376	18.800	61.679	51.450	51.462	0.962	1.990	1.869	81.300
415	377	18.850	61.843	23.010	23.023	1.220	2.090	5.299	77.400
416	378	18.900	62.007	28.950	28.970	1.348	3.130	4.653	68.000
417	379	18.950	62.171	139.380	139.449	1.557	11.070	1.117	70.300
418	380	19.000	62.335	161.450	161.498	2.227	7.680	1.379	66.300
419	381	19.050	62.499	147.540	147.622	2.589	13.140	1.754	65.100
420	382	19.100	62.663	104.250	104.331	2.826	13.010	2.709	70.500
421	383	19.150	62.827	74.620	74.655	2.261	5.580	3.029	72.400
422	384	19.200	62.991	76.440	76.599	1.844	25.480	2.407	57.200
423	385	19.250	63.155	72.660	72.779	1.828	18.990	2.512	48.300
424	386	19.300	63.319	66.430	66.499	1.946	10.990	2.926	37.800
425	387	19.350	63.483	91.280	91.348	2.311	10.960	2.530	33.500
426	388	19.400	63.648	68.180	68.218	2.441	6.060	3.578	35.700
427	389	19.450	63.812	62.860	62.904	1.959	6.980	3.114	26.300
428	390	19.500	63.976	98.410	98.503	1.997	14.970	2.027	33.000
429	391	19.550	64.140	64.320	64.377	1.802	9.110	2.799	39.500
430	392	19.600	64.304	64.390	64.439	2.341	7.780	3.633	29.300
431	393	19.650	64.468	93.750	93.803	2.517	8.540	2.683	37.500
432	394	19.700	64.632	77.730	77.801	3.197	11.390	4.109	32.300
433	395	19.750	64.796	112.030	112.144	3.307	18.260	2.949	26.800
434	396	19.800	64.960	68.460	68.530	3.096	11.270	4.518	33.100
435	397	19.850	65.124	85.810	85.958	2.298	23.730	2.673	38.700
436	398	19.900	65.288	99.220	99.294	2.209	11.850	2.225	42.700
437	399	19.950	65.452	47.460	47.547	2.411	13.860	5.071	51.900
438	400	20.000	65.616	31.340	31.450	2.421	17.620	7.698	56.800
439	401	20.050	65.780	117.490	117.781	2.415	46.670	2.050	60.800
440	402	20.100	65.944	112.140	112.426	2.449	45.890	2.178	57.900
441	403	20.150	66.108	125.690	125.745	2.291	8.840	1.822	67.800
442	404	20.200	66.272	125.120	125.198	1.737	12.560	1.387	63.000
443	405	20.250	66.436	98.880	98.926	1.470	7.320	1.486	66.600
444	406	20.300	66.600	79.200	79.242	1.389	6.710	1.753	67.700
445	407	20.350	66.764	92.380	92.463	1.129	13.230	1.221	63.500
446	408	20.400	66.928	86.410	86.468	1.046	9.300	1.210	59.500
447	409	20.450	67.092	76.930	76.972	0.778	6.650	1.011	58.000
448	410	20.500	67.256	61.180	61.208	0.804	4.440	1.314	53.800
449	411	20.550	67.420	32.660	32.685	1.023	4.070	3.130	48.500
450	412	20.600	67.584	38.400	38.427	1.403	4.340	3.651	43.400
451	413	20.650	67.749	53.150	53.231	2.789	12.950	5.239	28.400
452	414	20.700	67.913	108.440	108.609	3.039	27.090	2.798	26.200
453	415	20.750	68.077	94.620	94.768	3.753	23.680	3.960	19.200
454	416	20.800	68.241	82.010	82.049	3.097	6.190	3.775	20.500
455	417	20.850	68.405	47.450	47.531	2.411	12.980	5.072	18.400
456	418	20.900	68.569	34.580	34.652	1.818	11.540	5.246	17.800
457	419	20.950	68.733	36.300	36.388	1.544	14.080	4.243	18.900
458	420	21.000	68.897	38.270	38.369	1.386	15.910	3.612	23.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	30.670	30.713	1.356	6.960	4.415	29.700
460	422	21.100	69.225	77.730	77.809	0.897	12.600	1.153	30.800
461	423	21.150	69.389	157.750	157.821	1.684	11.330	1.067	40.800
462	424	21.200	69.553	174.060	174.096	2.162	5.710	1.242	43.800
463	425	21.250	69.717	127.180	127.204	3.056	3.830	2.402	39.900
464	426	21.300	69.881	90.890	90.929	3.030	6.260	3.332	37.300
465	427	21.350	70.045	68.930	69.005	3.111	12.040	4.508	35.800
466	428	21.400	70.209	45.280	45.397	2.760	18.810	6.080	32.000
467	429	21.450	70.373	51.950	52.110	2.028	25.590	3.892	25.500
468	430	21.500	70.537	39.900	40.035	1.647	21.670	4.114	30.600
469	431	21.550	70.701	87.070	87.274	2.164	32.740	2.480	34.700
470	432	21.600	70.865	86.960	87.050	1.886	14.460	2.167	39.900
471	433	21.650	71.029	48.710	48.793	1.626	13.220	3.332	32.700
472	434	21.700	71.193	44.780	45.309	1.078	84.730	2.379	44.100
473	435	21.750	71.357	33.700	33.765	0.964	10.360	2.855	46.800
474	436	21.800	71.521	24.560	24.635	0.920	11.960	3.735	47.900
475	437	21.850	71.685	38.210	38.313	2.198	16.420	5.737	45.200
476	438	21.900	71.850	68.630	68.782	2.871	24.300	4.174	36.100
477	439	21.950	72.014	126.490	126.663	2.697	27.780	2.129	27.900
478	440	22.000	72.178	104.530	104.665	2.894	21.660	2.765	32.700
479	441	22.050	72.342	64.960	65.377	2.759	66.800	4.220	33.700
480	442	22.100	72.506	87.320	87.523	2.042	32.580	2.333	43.400
481	443	22.150	72.670	61.000	61.129	1.565	20.670	2.560	39.500
482	444	22.200	72.834	37.550	37.609	1.115	9.430	2.965	48.100
483	445	22.250	72.998	38.370	38.437	0.831	10.680	2.162	61.100
484	446	22.300	73.162	45.960	46.009	0.783	7.860	1.702	65.700
485	447	22.350	73.326	35.160	35.229	0.736	11.030	2.089	73.400
486	448	22.400	73.490	31.080	31.153	0.679	11.630	2.180	79.100
487	449	22.450	73.654	25.690	25.757	0.511	10.750	1.984	85.100
488	450	22.500	73.818	21.040	21.099	0.373	9.470	1.768	81.500
489	451	22.550	73.982	20.980	21.081	0.358	16.210	1.698	97.700
490	452	22.600	74.146	20.700	20.792	0.679	14.770	3.266	88.600
491	453	22.650	74.310	24.880	25.013	1.089	21.260	4.354	80.900
492	454	22.700	74.474	92.640	93.114	1.280	75.970	1.375	85.100
493	455	22.750	74.638	150.590	150.710	1.604	19.250	1.064	91.600
494	456	22.800	74.802	173.440	173.509	1.766	11.010	1.018	72.900
495	457	22.850	74.966	172.740	172.794	1.953	8.730	1.130	91.000
496	458	22.900	75.130	151.460	151.493	1.992	5.350	1.315	74.900
497	459	22.950	75.294	124.780	124.795	1.856	2.400	1.487	77.600
498	460	23.000	75.458	99.880	99.885	1.509	0.880	1.511	80.400
499	461	23.050	75.622	74.980	74.975	1.378	-0.730	1.838	74.500
500	462	23.100	75.786	53.300	53.290	1.231	-1.680	2.310	0.000
501	463	23.150	75.951	57.810	57.820	1.456	1.550	2.518	0.000
502	464	23.200	76.115	107.970	108.052	2.783	13.090	2.576	0.000
503	465	23.250	76.279	154.750	154.942	3.703	30.740	2.390	0.000
504	466	23.300	76.443	126.170	126.231	4.137	9.730	3.277	0.000
505	467	23.350	76.607	59.350	59.416	3.139	10.630	5.283	0.000
506	468	23.400	76.771	78.350	78.805	2.878	72.930	3.652	0.000
507	469	23.450	76.935	97.250	97.390	3.044	22.450	3.126	0.000
508	470	23.500	77.099	173.550	173.871	4.498	51.370	2.587	0.000
509	471	23.550	77.263	234.310	234.380	5.147	11.280	2.196	0.000
510	472	23.600	77.427	113.130	113.166	5.428	5.750	4.796	0.000
511	473	23.650	77.591	83.900	83.994	3.318	15.080	3.950	0.000
512	474	23.700	77.755	89.650	89.839	2.893	30.270	3.220	0.000
513	475	23.750	77.919	22.960	23.005	1.922	7.130	8.355	0.000
514	476	23.800	78.083	152.900	153.097	0.000	31.520	0.000	0.000
515	477	23.850	78.247	298.730	298.756	0.000	4.220	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272396				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-09				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-14-2015				
14		CPT Time:			00:59				
15		CPT File:			15-53039_GP1D-09.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722129.892				
31		Northing / Lat:			4294192.076				
32		Elevation:			157.970				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	20.850	20.856	0.051	0.940	0.245	37.900
40	2	0.100	0.328	35.280	35.304	0.046	3.780	0.130	46.400
41	3	0.150	0.492	26.240	26.355	0.110	18.480	0.417	53.600
42	4	0.200	0.656	13.830	13.831	0.220	0.120	1.591	67.400
43	5	0.250	0.820	10.870	10.882	0.245	1.930	2.251	71.200
44	6	0.300	0.984	10.430	10.422	0.270	-1.260	2.591	72.400
45	7	0.350	1.148	11.160	11.128	0.274	-5.200	2.462	83.500
46	8	0.400	1.312	9.970	9.909	0.289	-9.840	2.917	66.800
47	9	0.450	1.476	9.730	9.658	0.275	-11.460	2.847	74.800
48	10	0.500	1.640	9.980	9.901	0.315	-12.600	3.181	78.200
49	11	0.550	1.804	11.960	11.895	0.350	-10.470	2.943	77.400
50	12	0.600	1.968	10.870	10.798	0.339	-11.540	3.139	90.800
51	13	0.650	2.133	9.990	9.931	0.365	-9.390	3.675	88.100
52	14	0.700	2.297	15.080	15.040	0.389	-6.470	2.587	85.800
53	15	0.750	2.461	22.750	22.721	0.414	-4.700	1.822	81.400
54	16	0.800	2.625	21.910	21.875	0.454	-5.560	2.075	83.800
55	17	0.850	2.789	17.060	17.016	0.422	-7.110	2.480	83.300
56	18	0.900	2.953	13.710	13.668	0.321	-6.680	2.349	78.500
57	19	0.950	3.117	15.870	15.840	0.330	-4.750	2.083	86.000
58	20	1.000	3.281	15.170	15.149	0.312	-3.350	2.060	86.500
59	21	1.050	3.445	12.350	12.337	0.231	-2.140	1.872	88.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	14.260	14.268	0.273	1.330	1.913	81.300
61	23	1.150	3.773	23.420	23.448	0.452	4.430	1.928	92.100
62	24	1.200	3.937	24.910	24.875	0.517	-5.600	2.078	85.000
63	25	1.250	4.101	26.540	26.521	0.659	-2.980	2.485	86.500
64	26	1.300	4.265	25.860	25.808	0.735	-8.370	2.848	84.200
65	27	1.350	4.429	24.150	24.082	0.713	-10.950	2.961	74.200
66	28	1.400	4.593	19.210	19.177	0.539	-5.270	2.811	87.200
67	29	1.450	4.757	17.350	17.339	0.306	-1.810	1.765	69.800
68	30	1.500	4.921	45.020	45.029	0.649	1.460	1.441	54.300
69	31	1.550	5.085	25.280	25.301	0.789	3.440	3.118	46.300
70	32	1.600	5.249	29.340	29.353	1.120	2.070	3.816	45.600
71	33	1.650	5.413	47.560	47.531	0.922	-4.570	1.940	57.100
72	34	1.700	5.577	7.470	7.480	0.865	1.600	11.564	52.000
73	35	1.750	5.741	19.060	19.083	0.934	3.690	4.894	58.100
74	36	1.800	5.905	14.600	14.758	0.420	25.380	2.846	74.500
75	37	1.850	6.069	17.290	17.320	0.416	4.730	2.402	75.400
76	38	1.900	6.234	18.230	18.168	0.518	-9.910	2.851	72.400
77	39	1.950	6.398	17.860	17.757	0.603	-16.570	3.396	71.300
78	40	2.000	6.562	17.310	17.213	0.662	-15.460	3.846	53.800
79	41	2.050	6.726	30.690	30.603	0.636	-13.980	2.078	50.800
80	42	2.100	6.890	23.380	23.381	0.651	0.240	2.784	34.600
81	43	2.150	7.054	28.090	28.247	0.713	25.090	2.524	30.600
82	44	2.200	7.218	63.600	63.622	0.906	3.490	1.424	28.700
83	45	2.250	7.382	79.240	79.354	1.437	18.250	1.811	28.600
84	46	2.300	7.546	74.160	74.157	1.381	-0.480	1.862	28.300
85	47	2.350	7.710	39.140	39.144	2.207	0.590	5.638	20.300
86	48	2.400	7.874	77.420	77.425	2.211	0.820	2.856	22.800
87	49	2.450	8.038	26.150	26.146	1.453	-0.710	5.557	28.400
88	50	2.500	8.202	109.380	109.419	0.963	6.170	0.880	27.100
89	51	2.550	8.366	108.100	108.175	0.885	12.080	0.818	28.800
90	52	2.600	8.530	61.800	61.910	1.241	17.590	2.005	37.300
91	53	2.650	8.694	33.260	33.294	1.253	5.440	3.763	45.100
92	54	2.700	8.858	34.230	34.369	0.819	22.330	2.383	36.700
93	55	2.750	9.022	33.300	33.382	1.330	13.120	3.984	45.000
94	56	2.800	9.186	72.790	72.981	2.259	30.570	3.095	36.700
95	57	2.850	9.350	63.220	63.272	2.498	8.340	3.948	33.600
96	58	2.900	9.514	143.690	143.848	3.390	25.240	2.357	21.800
97	59	2.950	9.678	127.280	127.394	2.707	18.320	2.125	20.200
98	60	3.000	9.842	207.310	207.393	2.830	13.320	1.365	21.200
99	61	3.050	10.006	124.310	124.383	2.974	11.740	2.391	17.300
100	62	3.100	10.170	148.990	149.014	1.878	3.870	1.260	16.400
101	63	3.150	10.335	139.310	139.328	1.136	2.870	0.815	20.200
102	64	3.200	10.499	108.860	108.878	0.588	2.890	0.540	19.700
103	65	3.250	10.663	71.210	71.189	0.293	-3.310	0.412	18.900
104	66	3.300	10.827	64.360	64.375	0.412	2.470	0.640	16.300
105	67	3.350	10.991	79.960	79.979	0.356	3.030	0.445	14.700
106	68	3.400	11.155	121.490	121.508	0.646	2.880	0.532	13.400
107	69	3.450	11.319	34.430	34.412	1.148	-2.890	3.336	18.100
108	70	3.500	11.483	114.940	114.939	1.149	-0.160	1.000	18.900
109	71	3.550	11.647	135.710	136.102	1.299	62.800	0.954	17.100
110	72	3.600	11.811	108.550	108.550	1.062	-0.060	0.978	21.000
111	73	3.650	11.975	41.740	41.745	0.887	0.880	2.125	17.800
112	74	3.700	12.139	49.480	49.520	0.716	6.400	1.446	25.800
113	75	3.750	12.303	57.280	57.338	0.864	9.280	1.507	22.000
114	76	3.800	12.467	82.990	83.046	0.732	8.970	0.881	20.000
115	77	3.850	12.631	99.720	99.750	1.089	4.760	1.092	18.200
116	78	3.900	12.795	183.310	183.329	1.574	2.980	0.859	21.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	118.550	118.607	1.540	9.090	1.298	23.900
118	80	4.000	13.123	91.110	91.263	1.726	24.570	1.891	14.200
119	81	4.050	13.287	72.140	72.151	1.036	1.770	1.436	33.600
120	82	4.100	13.451	33.510	33.628	0.655	18.840	1.948	30.500
121	83	4.150	13.615	22.720	22.747	0.281	4.290	1.235	46.800
122	84	4.200	13.779	27.170	27.256	0.328	13.830	1.203	50.500
123	85	4.250	13.943	15.140	15.305	0.335	26.480	2.189	60.600
124	86	4.300	14.107	15.450	15.933	0.327	77.440	2.052	69.200
125	87	4.350	14.271	16.520	16.927	0.406	65.260	2.398	61.300
126	88	4.400	14.436	37.470	37.513	0.472	6.810	1.258	63.600
127	89	4.450	14.600	18.790	18.761	0.434	-4.590	2.313	64.500
128	90	4.500	14.764	14.120	14.103	0.404	-2.740	2.865	70.600
129	91	4.550	14.928	13.040	13.100	0.369	9.610	2.817	69.100
130	92	4.600	15.092	14.860	14.922	0.451	9.880	3.022	66.900
131	93	4.650	15.256	18.350	18.396	0.553	7.330	3.006	48.500
132	94	4.700	15.420	32.210	32.188	0.617	-3.460	1.917	49.300
133	95	4.750	15.584	20.880	20.914	0.669	5.370	3.199	52.500
134	96	4.800	15.748	29.090	29.112	0.696	3.520	2.391	37.100
135	97	4.850	15.912	19.240	19.284	0.484	6.980	2.510	33.200
136	98	4.900	16.076	18.150	18.182	0.463	5.140	2.546	37.700
137	99	4.950	16.240	19.450	19.490	0.491	6.470	2.519	30.300
138	100	5.000	16.404	34.360	34.405	0.564	7.180	1.639	33.900
139	101	5.050	16.568	28.010	28.070	0.675	9.590	2.405	31.000
140	102	5.100	16.732	23.670	23.723	0.576	8.410	2.428	20.100
141	103	5.150	16.896	16.950	16.971	0.534	3.400	3.147	23.200
142	104	5.200	17.060	19.920	19.943	0.418	3.610	2.096	23.500
143	105	5.250	17.224	28.230	28.243	0.291	2.080	1.030	24.100
144	106	5.300	17.388	27.600	27.623	0.352	3.620	1.274	25.400
145	107	5.350	17.552	24.910	24.930	0.335	3.140	1.344	28.200
146	108	5.400	17.716	21.360	21.404	0.412	6.970	1.925	34.500
147	109	5.450	17.880	29.690	29.688	0.406	-0.380	1.368	29.200
148	110	5.500	18.044	52.600	52.676	0.502	12.140	0.953	29.900
149	111	5.550	18.208	54.690	54.748	0.818	9.280	1.494	28.000
150	112	5.600	18.372	91.470	91.496	1.373	4.200	1.501	27.500
151	113	5.650	18.537	100.750	100.781	1.400	4.900	1.389	23.600
152	114	5.700	18.701	26.970	27.004	1.196	5.380	4.429	20.500
153	115	5.750	18.865	13.880	13.902	1.241	3.480	8.927	22.100
154	116	5.800	19.029	25.820	25.839	1.106	3.030	4.280	23.800
155	117	5.850	19.193	298.690	298.975	0.953	45.730	0.319	28.800
156	118	5.900	19.357	378.520	378.596	1.603	12.150	0.423	29.800
157	119	5.950	19.521	309.380	309.446	1.295	10.640	0.418	29.800
158	120	6.000	19.685	222.680	222.720	1.123	6.340	0.504	40.500
159	121	6.050	19.849	109.270	109.328	1.639	9.370	1.499	51.800
160	122	6.100	20.013	80.000	80.003	1.957	0.420	2.446	57.500
161	123	6.150	20.177	43.110	43.102	1.733	-1.260	4.021	73.100
162	124	6.200	20.341	30.540	30.569	1.462	4.590	4.783	77.900
163	125	6.250	20.505	21.700	21.675	0.776	-4.060	3.580	72.600
164	126	6.300	20.669	17.020	16.991	0.549	-4.620	3.231	86.300
165	127	6.350	20.833	13.490	13.461	0.413	-4.600	3.068	81.200
166	128	6.400	20.997	12.260	12.229	0.317	-4.910	2.592	68.400
167	129	6.450	21.161	9.870	9.840	0.266	-4.840	2.703	92.500
168	130	6.500	21.325	8.410	8.374	0.212	-5.690	2.532	76.500
169	131	6.550	21.489	11.870	11.835	0.283	-5.670	2.391	72.700
170	132	6.600	21.653	25.840	25.841	0.192	0.110	0.743	66.500
171	133	6.650	21.817	11.910	11.928	0.224	2.880	1.878	52.700
172	134	6.700	21.981	10.990	10.976	0.218	-2.190	1.986	38.400
173	135	6.750	22.145	18.560	18.580	0.149	3.140	0.802	37.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	33.240	33.254	0.307	2.220	0.923	35.200
175	137	6.850	22.473	53.270	53.291	1.129	3.350	2.119	29.500
176	138	6.900	22.638	36.240	36.251	1.434	1.700	3.956	29.600
177	139	6.950	22.802	83.430	83.473	1.567	6.900	1.877	27.500
178	140	7.000	22.966	72.560	72.637	1.575	12.360	2.168	24.800
179	141	7.050	23.130	64.110	64.251	1.552	22.650	2.416	29.500
180	142	7.100	23.294	70.910	70.955	1.484	7.220	2.091	26.900
181	143	7.150	23.458	54.980	55.084	1.841	16.730	3.342	44.800
182	144	7.200	23.622	110.460	110.734	1.674	43.950	1.512	43.400
183	145	7.250	23.786	58.180	60.024	1.680	295.430	2.799	56.800
184	146	7.300	23.950	67.790	67.922	1.493	21.160	2.198	69.300
185	147	7.350	24.114	58.560	58.533	1.536	-4.250	2.624	76.700
186	148	7.400	24.278	45.750	45.709	1.774	-6.500	3.881	81.800
187	149	7.450	24.442	60.870	60.836	1.457	-5.430	2.395	58.800
188	150	7.500	24.606	85.440	85.449	1.995	1.380	2.335	45.600
189	151	7.550	24.770	189.430	189.502	2.879	11.500	1.519	40.300
190	152	7.600	24.934	133.510	133.563	2.895	8.500	2.168	29.400
191	153	7.650	25.098	105.400	105.587	2.843	29.890	2.693	28.700
192	154	7.700	25.262	108.030	108.246	2.103	34.580	1.943	17.300
193	155	7.750	25.426	109.960	110.010	1.621	8.050	1.473	25.100
194	156	7.800	25.590	89.420	89.506	0.997	13.840	1.114	20.000
195	157	7.850	25.754	57.910	57.931	1.132	3.430	1.954	15.100
196	158	7.900	25.918	72.940	73.004	0.789	10.190	1.081	14.800
197	159	7.950	26.082	59.480	59.541	0.982	9.800	1.649	16.300
198	160	8.000	26.246	63.550	63.627	1.028	12.410	1.616	12.800
199	161	8.050	26.410	58.040	58.069	1.026	4.580	1.767	7.500
200	162	8.100	26.574	48.960	48.997	0.570	5.850	1.163	9.000
201	163	8.150	26.739	47.500	47.797	0.976	47.510	2.042	8.900
202	164	8.200	26.903	61.570	61.640	0.870	11.150	1.411	11.100
203	165	8.250	27.067	38.010	38.047	0.855	5.870	2.247	12.700
204	166	8.300	27.231	22.660	22.665	0.984	0.790	4.342	11.600
205	167	8.350	27.395	48.160	48.243	0.711	13.280	1.474	10.300
206	168	8.400	27.559	76.700	76.774	0.471	11.790	0.613	15.500
207	169	8.450	27.723	42.000	42.020	0.886	3.220	2.109	13.900
208	170	8.500	27.887	76.260	76.323	1.624	10.030	2.128	14.800
209	171	8.550	28.051	81.840	81.917	1.251	12.280	1.527	10.900
210	172	8.600	28.215	84.240	84.305	1.338	10.430	1.587	12.400
211	173	8.650	28.379	125.810	125.948	1.565	22.110	1.243	16.800
212	174	8.700	28.543	78.360	78.390	1.131	4.840	1.443	11.600
213	175	8.750	28.707	73.380	73.639	1.359	41.440	1.845	14.100
214	176	8.800	28.871	110.390	110.495	1.775	16.890	1.606	16.500
215	177	8.850	29.035	90.180	90.239	1.299	9.500	1.440	16.600
216	178	8.900	29.199	99.400	99.422	1.580	3.490	1.589	22.400
217	179	8.950	29.363	107.390	107.420	1.179	4.830	1.098	28.000
218	180	9.000	29.527	93.310	93.381	1.263	11.450	1.353	37.300
219	181	9.050	29.691	71.340	71.403	1.238	10.110	1.734	39.900
220	182	9.100	29.855	76.830	76.918	1.459	14.170	1.897	52.100
221	183	9.150	30.019	84.760	85.031	1.424	43.450	1.675	45.800
222	184	9.200	30.183	75.920	75.979	1.992	9.500	2.622	48.900
223	185	9.250	30.347	63.710	63.773	2.224	10.090	3.487	52.100
224	186	9.300	30.511	117.190	117.298	2.007	17.230	1.711	43.000
225	187	9.350	30.675	99.670	99.812	1.508	22.820	1.511	44.300
226	188	9.400	30.840	131.930	132.028	1.150	15.730	0.871	48.700
227	189	9.450	31.004	110.190	110.646	1.188	73.030	1.074	44.300
228	190	9.500	31.168	74.280	74.346	1.059	10.530	1.424	47.100
229	191	9.550	31.332	48.370	48.422	0.828	8.300	1.710	57.400
230	192	9.600	31.496	29.780	29.843	0.643	10.160	2.155	65.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	24.790	24.840	0.444	8.010	1.787	86.300
232	194	9.700	31.824	28.170	28.222	0.465	8.350	1.648	74.500
233	195	9.750	31.988	31.860	31.903	0.520	6.900	1.630	78.000
234	196	9.800	32.152	27.620	27.658	0.521	6.120	1.884	83.600
235	197	9.850	32.316	22.380	22.412	0.506	5.170	2.258	85.000
236	198	9.900	32.480	24.660	24.694	0.559	5.510	2.264	93.900
237	199	9.950	32.644	31.660	31.696	0.514	5.740	1.622	81.700
238	200	10.000	32.808	30.940	30.969	0.511	4.710	1.650	81.100
239	201	10.050	32.972	26.530	26.551	0.509	3.380	1.917	72.800
240	202	10.100	33.136	25.770	25.796	0.444	4.170	1.721	87.100
241	203	10.150	33.300	23.210	23.240	0.432	4.760	1.859	80.700
242	204	10.200	33.464	22.260	22.295	0.397	5.570	1.781	89.100
243	205	10.250	33.628	24.170	24.195	0.376	4.060	1.554	83.300
244	206	10.300	33.792	25.240	25.265	0.386	4.010	1.528	82.700
245	207	10.350	33.956	25.200	25.222	0.376	3.520	1.491	85.100
246	208	10.400	34.120	23.440	23.460	0.362	3.170	1.543	93.100
247	209	10.450	34.284	19.350	19.367	0.300	2.740	1.549	87.100
248	210	10.500	34.448	15.020	15.033	0.215	2.010	1.430	71.300
249	211	10.550	34.612	14.640	14.647	0.318	1.200	2.171	70.200
250	212	10.600	34.776	22.570	22.581	0.494	1.720	2.188	69.400
251	213	10.650	34.941	30.680	30.717	1.070	5.890	3.483	66.100
252	214	10.700	35.105	73.460	73.514	1.554	8.710	2.114	57.400
253	215	10.750	35.269	113.630	113.691	2.090	9.750	1.838	44.600
254	216	10.800	35.433	90.020	90.152	1.998	21.090	2.216	42.700
255	217	10.850	35.597	100.140	100.251	1.120	17.850	1.117	42.500
256	218	10.900	35.761	36.050	36.128	0.816	12.430	2.259	43.600
257	219	10.950	35.925	47.690	47.863	0.761	27.700	1.590	41.700
258	220	11.000	36.089	91.700	91.762	0.771	10.010	0.840	39.500
259	221	11.050	36.253	100.500	100.519	0.915	2.970	0.910	44.100
260	222	11.100	36.417	41.830	41.906	1.031	12.100	2.460	53.500
261	223	11.150	36.581	38.220	38.305	0.958	13.620	2.501	61.500
262	224	11.200	36.745	35.610	35.674	1.198	10.280	3.358	57.000
263	225	11.250	36.909	50.070	50.127	1.783	9.140	3.557	57.600
264	226	11.300	37.073	78.490	78.491	1.186	0.230	1.511	66.100
265	227	11.350	37.237	136.580	136.709	1.296	20.690	0.948	74.600
266	228	11.400	37.401	167.290	167.389	1.877	15.800	1.121	63.100
267	229	11.450	37.565	167.500	167.537	1.481	5.850	0.884	69.500
268	230	11.500	37.729	119.270	119.254	2.976	-2.640	2.496	62.400
269	231	11.550	37.893	120.700	120.725	2.719	3.960	2.252	68.800
270	232	11.600	38.057	53.560	53.566	2.758	0.970	5.149	79.300
271	233	11.650	38.221	46.590	46.646	1.596	8.960	3.422	80.200
272	234	11.700	38.385	45.310	45.358	1.488	7.700	3.281	78.900
273	235	11.750	38.549	39.800	39.840	1.787	6.450	4.485	85.300
274	236	11.800	38.713	46.620	46.665	1.743	7.230	3.735	76.900
275	237	11.850	38.877	33.530	33.559	1.653	4.570	4.926	82.500
276	238	11.900	39.042	31.910	31.934	1.226	3.800	3.839	72.100
277	239	11.950	39.206	131.450	131.514	2.244	10.240	1.706	75.400
278	240	12.000	39.370	104.860	105.048	2.271	30.040	2.162	70.200
279	241	12.050	39.534	31.960	32.032	2.205	11.530	6.884	76.500
280	242	12.100	39.698	35.020	35.166	1.004	23.440	2.855	83.300
281	243	12.150	39.862	32.030	32.152	0.807	19.550	2.510	76.400
282	244	12.200	40.026	30.390	30.516	0.782	20.200	2.563	86.200
283	245	12.250	40.190	43.730	43.867	0.668	21.940	1.523	75.000
284	246	12.300	40.354	49.510	49.593	0.623	13.350	1.256	80.900
285	247	12.350	40.518	50.840	50.903	0.709	10.120	1.393	86.500
286	248	12.400	40.682	47.270	47.322	0.965	8.310	2.039	96.900
287	249	12.450	40.846	39.670	39.719	0.902	7.920	2.271	87.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	52.170	52.251	0.932	12.950	1.784	82.000
289	251	12.550	41.174	81.640	81.712	0.995	11.520	1.218	84.200
290	252	12.600	41.338	92.930	92.992	1.016	10.000	1.093	91.300
291	253	12.650	41.502	99.820	99.870	1.054	7.970	1.055	79.500
292	254	12.700	41.666	96.060	96.099	1.176	6.280	1.224	74.700
293	255	12.750	41.830	73.810	73.828	1.055	2.910	1.429	63.300
294	256	12.800	41.994	69.200	69.221	1.014	3.290	1.465	48.700
295	257	12.850	42.158	59.110	59.124	0.982	2.230	1.661	44.600
296	258	12.900	42.322	52.960	52.980	1.056	3.270	1.993	43.600
297	259	12.950	42.486	63.990	64.009	0.985	3.030	1.539	45.100
298	260	13.000	42.650	55.210	55.223	0.873	2.100	1.581	38.800
299	261	13.050	42.814	37.120	37.191	1.602	11.360	4.308	39.200
300	262	13.100	42.978	35.850	35.894	2.874	7.080	8.007	28.600
301	263	13.150	43.143	114.060	114.133	3.336	11.670	2.923	31.600
302	264	13.200	43.307	366.780	367.010	4.708	36.910	1.283	28.100
303	265	13.250	43.471	378.880	379.088	4.370	33.340	1.153	29.000
304	266	13.300	43.635	104.590	104.656	3.137	10.580	2.997	27.600
305	267	13.350	43.799	83.450	83.562	2.278	17.880	2.726	26.900
306	268	13.400	43.963	87.020	87.896	2.474	140.320	2.815	22.700
307	269	13.450	44.127	97.770	98.132	2.351	57.960	2.396	19.100
308	270	13.500	44.291	75.120	75.215	2.167	15.290	2.881	16.400
309	271	13.550	44.455	41.550	41.590	1.816	6.370	4.366	19.300
310	272	13.600	44.619	33.990	34.001	1.123	1.750	3.303	24.800
311	273	13.650	44.783	44.510	44.577	0.835	10.750	1.873	21.000
312	274	13.700	44.947	26.980	27.012	0.569	5.090	2.106	30.400
313	275	13.750	45.111	52.460	52.510	0.696	8.050	1.325	31.100
314	276	13.800	45.275	81.930	81.974	1.078	6.970	1.315	31.200
315	277	13.850	45.439	63.980	64.055	1.392	12.000	2.173	39.200
316	278	13.900	45.603	55.100	55.152	1.621	8.360	2.939	56.300
317	279	13.950	45.767	70.500	70.562	1.347	9.990	1.909	52.700
318	280	14.000	45.931	72.690	72.745	2.001	8.890	2.751	51.200
319	281	14.050	46.095	80.700	80.756	2.522	8.900	3.123	41.700
320	282	14.100	46.259	96.460	96.663	2.848	32.520	2.946	32.500
321	283	14.150	46.423	139.630	139.868	3.942	38.190	2.818	28.900
322	284	14.200	46.587	159.500	159.597	3.765	15.490	2.359	18.500
323	285	14.250	46.751	114.790	114.873	4.013	13.270	3.493	16.600
324	286	14.300	46.915	91.480	91.509	2.907	4.700	3.177	19.300
325	287	14.350	47.079	102.590	102.628	2.980	6.050	2.904	25.500
326	288	14.400	47.244	111.310	111.376	1.827	10.540	1.640	24.700
327	289	14.450	47.408	68.650	68.787	2.082	22.020	3.027	14.400
328	290	14.500	47.572	67.670	67.740	1.684	11.160	2.486	18.300
329	291	14.550	47.736	44.400	44.475	1.482	12.050	3.332	25.700
330	292	14.600	47.900	60.470	60.576	1.162	17.020	1.918	24.400
331	293	14.650	48.064	95.840	95.891	1.347	8.090	1.405	15.400
332	294	14.700	48.228	103.120	103.177	1.379	9.170	1.337	29.300
333	295	14.750	48.392	40.620	40.688	1.172	10.820	2.880	31.300
334	296	14.800	48.556	66.940	67.035	1.573	15.140	2.347	40.700
335	297	14.850	48.720	58.720	58.866	1.389	23.420	2.360	52.800
336	298	14.900	48.884	50.630	50.713	1.387	13.270	2.735	52.500
337	299	14.950	49.048	49.900	49.986	1.143	13.840	2.287	65.600
338	300	15.000	49.212	43.130	43.209	1.161	12.620	2.687	70.900
339	301	15.050	49.376	63.420	63.511	1.226	14.510	1.930	68.000
340	302	15.100	49.540	90.990	91.096	1.109	17.050	1.217	82.600
341	303	15.150	49.704	114.950	115.034	1.046	13.510	0.909	69.500
342	304	15.200	49.868	105.550	105.605	0.902	8.750	0.854	71.300
343	305	15.250	50.032	86.420	86.456	0.887	5.830	1.026	60.000
344	306	15.300	50.196	65.640	65.669	1.054	4.630	1.605	54.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	45.270	45.296	1.329	4.150	2.934	46.100
346	308	15.400	50.524	53.540	53.574	1.208	5.500	2.255	40.800
347	309	15.450	50.688	121.610	121.715	1.419	16.850	1.166	43.800
348	310	15.500	50.852	187.910	188.000	1.955	14.450	1.040	37.800
349	311	15.550	51.016	179.260	179.330	3.009	11.280	1.678	48.100
350	312	15.600	51.180	123.690	123.785	3.018	15.190	2.438	59.900
351	313	15.650	51.345	50.670	50.739	2.479	11.110	4.886	70.200
352	314	15.700	51.509	60.240	60.540	1.346	48.060	2.223	68.700
353	315	15.750	51.673	74.740	74.830	0.866	14.490	1.157	72.200
354	316	15.800	51.837	66.310	66.357	0.908	7.540	1.368	51.200
355	317	15.850	52.001	50.520	50.562	0.571	6.770	1.129	53.800
356	318	15.900	52.165	18.770	18.797	0.591	4.390	3.144	42.500
357	319	15.950	52.329	15.090	15.112	0.638	3.550	4.222	32.200
358	320	16.000	52.493	37.400	37.448	0.870	7.710	2.323	35.600
359	321	16.050	52.657	31.600	31.646	1.013	7.330	3.201	24.200
360	322	16.100	52.821	39.960	40.044	1.376	13.510	3.436	24.400
361	323	16.150	52.985	45.880	45.942	1.621	9.980	3.528	12.600
362	324	16.200	53.149	42.180	42.300	2.023	19.180	4.783	19.400
363	325	16.250	53.313	57.880	57.974	2.157	15.050	3.721	14.600
364	326	16.300	53.477	56.090	56.129	2.064	6.210	3.677	18.400
365	327	16.350	53.641	46.440	46.484	1.655	7.090	3.560	25.800
366	328	16.400	53.805	32.590	32.634	1.310	7.110	4.014	22.300
367	329	16.450	53.969	40.110	40.188	0.861	12.470	2.142	34.700
368	330	16.500	54.133	29.220	29.267	0.907	7.570	3.099	32.200
369	331	16.550	54.297	42.660	42.713	1.036	8.440	2.426	39.600
370	332	16.600	54.461	28.810	28.865	1.309	8.740	4.535	41.800
371	333	16.650	54.625	50.880	50.959	1.624	12.670	3.187	67.600
372	334	16.700	54.789	74.530	74.660	1.585	20.840	2.123	83.200
373	335	16.750	54.953	91.010	91.080	1.588	11.150	1.744	87.000
374	336	16.800	55.117	96.890	96.960	1.361	11.220	1.404	68.400
375	337	16.850	55.281	144.790	144.875	1.413	13.600	0.975	76.000
376	338	16.900	55.446	128.990	129.041	1.983	8.110	1.537	82.700
377	339	16.950	55.610	87.200	87.235	2.584	5.630	2.962	81.800
378	340	17.000	55.774	75.430	75.496	2.460	10.510	3.258	83.100
379	341	17.050	55.938	65.230	65.333	2.353	16.480	3.602	93.200
380	342	17.100	56.102	54.950	55.040	2.148	14.340	3.903	86.200
381	343	17.150	56.266	63.900	63.999	1.753	15.820	2.739	85.400
382	344	17.200	56.430	83.680	83.751	1.704	11.360	2.035	90.700
383	345	17.250	56.594	82.450	82.517	1.331	10.770	1.613	102.500
384	346	17.300	56.758	60.050	60.117	1.031	10.740	1.715	114.200
385	347	17.350	56.922	49.370	49.414	1.160	6.980	2.348	118.100
386	348	17.400	57.086	39.440	39.473	1.014	5.300	2.569	136.300
387	349	17.450	57.250	58.980	59.052	0.787	11.460	1.333	119.600
388	350	17.500	57.414	70.830	70.898	0.927	10.930	1.308	107.200
389	351	17.550	57.578	84.550	84.614	0.841	10.250	0.994	99.600
390	352	17.600	57.742	77.460	77.502	0.800	6.750	1.032	98.100
391	353	17.650	57.906	61.900	61.931	0.888	4.930	1.434	115.100
392	354	17.700	58.070	46.650	46.675	0.967	4.070	2.072	120.500
393	355	17.750	58.234	37.870	37.889	1.169	3.050	3.085	156.700
394	356	17.800	58.398	44.670	44.696	1.287	4.190	2.879	164.000
395	357	17.850	58.562	44.430	44.464	1.166	5.510	2.622	220.600
396	358	17.900	58.726	29.670	29.700	0.969	4.840	3.263	217.800
397	359	17.950	58.890	34.130	34.164	1.010	5.490	2.956	186.600
398	360	18.000	59.054	10.060	10.088	0.745	4.410	7.385	180.800
399	361	18.050	59.218	22.270	22.311	0.704	6.570	3.155	155.700
400	362	18.100	59.382	34.080	34.104	0.845	3.810	2.478	135.600
401	363	18.150	59.547	23.650	23.691	0.926	6.520	3.909	115.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	41.410	41.477	1.115	10.730	2.688	114.000
403	365	18.250	59.875	61.400	61.470	1.603	11.170	2.608	120.300
404	366	18.300	60.039	50.450	50.506	1.852	8.930	3.667	102.400
405	367	18.350	60.203	44.760	44.898	1.966	22.180	4.379	111.000
406	368	18.400	60.367	75.100	75.235	1.912	21.600	2.541	91.500
407	369	18.450	60.531	105.730	105.832	1.553	16.350	1.467	82.000
408	370	18.500	60.695	132.120	132.211	1.277	14.570	0.966	81.400
409	371	18.550	60.859	119.920	119.995	1.706	11.960	1.422	82.800
410	372	18.600	61.023	113.540	113.587	1.687	7.490	1.485	67.800
411	373	18.650	61.187	87.550	87.568	1.600	2.940	1.827	62.600
412	374	18.700	61.351	63.410	63.459	1.963	7.770	3.093	43.700
413	375	18.750	61.515	55.780	55.830	1.787	8.030	3.201	44.800
414	376	18.800	61.679	60.200	60.271	1.874	11.300	3.109	36.700
415	377	18.850	61.843	79.820	79.883	1.559	10.150	1.952	35.800
416	378	18.900	62.007	152.110	152.205	2.626	15.200	1.725	41.600
417	379	18.950	62.171	152.970	153.038	3.062	10.870	2.001	53.100
418	380	19.000	62.335	112.340	112.400	2.885	9.670	2.567	66.800
419	381	19.050	62.499	128.090	128.167	1.730	12.360	1.350	75.500
420	382	19.100	62.663	132.360	132.432	0.799	11.570	0.603	70.400
421	383	19.150	62.827	76.050	76.084	0.522	5.430	0.686	62.300
422	384	19.200	62.991	54.020	54.057	0.433	6.000	0.801	62.200
423	385	19.250	63.155	44.560	44.595	0.683	5.650	1.532	47.200
424	386	19.300	63.319	50.130	50.172	0.780	6.790	1.555	40.000
425	387	19.350	63.483	56.680	56.746	0.428	10.510	0.754	40.400
426	388	19.400	63.648	43.420	43.455	0.779	5.680	1.793	26.700
427	389	19.450	63.812	37.630	37.689	0.981	9.390	2.603	26.900
428	390	19.500	63.976	49.690	49.767	1.007	12.360	2.023	22.400
429	391	19.550	64.140	55.800	55.873	1.415	11.700	2.533	21.300
430	392	19.600	64.304	58.180	58.280	1.545	15.960	2.651	27.100
431	393	19.650	64.468	51.800	51.841	1.804	6.570	3.480	26.500
432	394	19.700	64.632	62.160	62.209	1.601	7.870	2.574	27.400
433	395	19.750	64.796	54.410	54.453	1.723	6.810	3.164	27.800
434	396	19.800	64.960	49.560	49.603	1.558	6.960	3.141	33.900
435	397	19.850	65.124	29.270	29.315	1.187	7.220	4.049	34.900
436	398	19.900	65.288	20.550	20.622	1.005	11.530	4.873	29.400
437	399	19.950	65.452	20.200	20.266	0.977	10.580	4.821	26.400
438	400	20.000	65.616	43.670	43.751	1.918	13.000	4.384	33.800
439	401	20.050	65.780	43.980	44.027	2.104	7.520	4.779	22.600
440	402	20.100	65.944	69.850	69.886	1.910	5.690	2.733	31.400
441	403	20.150	66.108	172.690	172.837	1.317	23.590	0.762	36.800
442	404	20.200	66.272	65.360	65.394	3.339	5.500	5.106	33.700
443	405	20.250	66.436	58.000	58.005	2.348	0.870	4.048	42.400
444	406	20.300	66.600	24.080	24.098	1.771	2.820	7.349	45.600
445	407	20.350	66.764	81.410	81.547	1.608	21.950	1.972	47.200
446	408	20.400	66.928	117.030	117.133	3.110	16.550	2.655	50.700
447	409	20.450	67.092	112.520	112.602	2.677	13.090	2.377	35.800
448	410	20.500	67.256	156.760	156.938	3.820	28.530	2.434	30.500
449	411	20.550	67.420	107.120	107.271	3.718	24.220	3.466	32.500
450	412	20.600	67.584	74.020	74.361	3.110	54.700	4.182	24.300
451	413	20.650	67.749	109.770	109.866	2.539	15.310	2.311	25.800
452	414	20.700	67.913	67.720	67.812	2.571	14.750	3.791	23.700
453	415	20.750	68.077	67.530	67.718	2.583	30.060	3.814	0.000
454	416	20.800	68.241	101.170	101.285	4.080	18.410	4.028	0.000
455	417	20.850	68.405	107.810	107.982	5.672	27.610	5.253	0.000
456	418	20.900	68.569	136.650	136.749	5.511	15.890	4.030	0.000
457	419	20.950	68.733	144.940	145.007	6.741	10.790	4.649	0.000
458	420	21.000	68.897	69.060	69.066	6.045	0.960	8.752	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	69.670	69.743	2.809	11.730	4.028	0.000
460	422	21.100	69.225	36.420	36.516	1.297	15.300	3.552	0.000
461	423	21.150	69.389	13.960	13.994	0.985	5.420	7.039	0.000
462	424	21.200	69.553	15.680	15.719	0.684	6.290	4.351	0.000
463	425	21.250	69.717	50.800	50.842	1.199	6.750	2.358	0.000
464	426	21.300	69.881	39.410	39.471	0.940	9.790	2.381	0.000
465	427	21.350	70.045	70.610	70.611	1.619	0.220	2.293	0.000
466	428	21.400	70.209	81.300	81.424	2.685	19.820	3.298	0.000
467	429	21.450	70.373	104.590	104.678	3.330	14.020	3.181	0.000
468	430	21.500	70.537	245.830	245.911	0.000	12.930	0.000	0.000
469	431	21.550	70.701	280.790	280.827	0.000	5.980	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272400				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-10				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-16-2015				
14		CPT Time:			14:38				
15		CPT File:			15-53039_GP1D-10.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722153.925				
31		Northing / Lat:			4294262.756				
32		Elevation:			153.440				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	7.270	7.289	0.075	3.080	1.029	29.400
40	2	0.100	0.328	35.480	35.544	0.154	10.230	0.433	41.000
41	3	0.150	0.492	33.050	33.052	0.095	0.300	0.287	49.500
42	4	0.200	0.656	60.040	60.042	0.170	0.350	0.283	56.000
43	5	0.250	0.820	34.490	34.565	0.305	12.080	0.882	61.400
44	6	0.300	0.984	24.140	24.183	0.395	6.840	1.633	67.900
45	7	0.350	1.148	35.460	35.480	0.456	3.180	1.285	71.500
46	8	0.400	1.312	43.220	43.166	0.556	-8.580	1.288	79.300
47	9	0.450	1.476	32.910	32.836	0.571	-11.920	1.739	89.100
48	10	0.500	1.640	26.100	26.027	0.549	-11.640	2.109	75.700
49	11	0.550	1.804	25.280	25.204	0.519	-12.110	2.059	78.600
50	12	0.600	1.968	25.340	25.265	0.443	-11.980	1.753	81.100
51	13	0.650	2.133	24.850	24.777	0.483	-11.770	1.949	82.500
52	14	0.700	2.297	18.820	18.740	0.493	-12.870	2.631	78.700
53	15	0.750	2.461	24.000	23.955	0.538	-7.270	2.246	83.200
54	16	0.800	2.625	24.540	24.480	0.625	-9.590	2.553	91.800
55	17	0.850	2.789	25.020	24.943	0.655	-12.410	2.626	92.300
56	18	0.900	2.953	24.870	24.787	0.661	-13.230	2.667	78.500
57	19	0.950	3.117	24.310	24.229	0.596	-13.000	2.460	79.800
58	20	1.000	3.281	23.430	23.345	0.554	-13.630	2.373	82.100
59	21	1.050	3.445	22.550	22.457	0.474	-14.910	2.111	99.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	20.680	20.583	0.419	-15.500	2.036	83.400
61	23	1.150	3.773	17.160	17.060	0.322	-15.940	1.887	77.700
62	24	1.200	3.937	14.890	14.789	0.251	-16.130	1.697	73.500
63	25	1.250	4.101	12.990	12.979	0.225	-1.830	1.734	72.300
64	26	1.300	4.265	15.050	15.041	0.245	-1.460	1.629	70.100
65	27	1.350	4.429	25.080	25.080	0.238	0.070	0.949	44.400
66	28	1.400	4.593	37.120	37.122	0.411	0.330	1.107	40.100
67	29	1.450	4.757	23.790	23.789	0.420	-0.140	1.766	37.100
68	30	1.500	4.921	12.260	12.277	0.406	2.680	3.307	27.800
69	31	1.550	5.085	22.950	22.966	0.265	2.530	1.154	32.600
70	32	1.600	5.249	22.350	22.380	0.328	4.860	1.466	28.300
71	33	1.650	5.413	29.190	29.207	0.348	2.650	1.192	26.400
72	34	1.700	5.577	41.550	41.589	0.258	6.270	0.620	31.800
73	35	1.750	5.741	65.530	65.549	0.339	2.970	0.517	23.700
74	36	1.800	5.905	76.830	77.028	0.488	31.790	0.634	30.300
75	37	1.850	6.069	75.780	76.018	0.717	38.180	0.943	24.700
76	38	1.900	6.234	41.420	41.481	0.719	9.750	1.733	27.700
77	39	1.950	6.398	15.520	15.586	0.749	10.520	4.806	35.600
78	40	2.000	6.562	13.210	13.223	0.698	2.120	5.279	30.700
79	41	2.050	6.726	15.620	15.621	0.515	0.110	3.297	42.100
80	42	2.100	6.890	10.230	10.225	0.527	-0.860	5.154	43.100
81	43	2.150	7.054	12.590	12.647	0.420	9.210	3.321	71.000
82	44	2.200	7.218	12.930	12.959	0.340	4.630	2.624	80.100
83	45	2.250	7.382	12.430	12.462	0.270	5.110	2.167	96.100
84	46	2.300	7.546	9.480	9.499	0.285	3.000	3.000	94.000
85	47	2.350	7.710	8.620	8.652	0.254	5.190	2.936	93.400
86	48	2.400	7.874	9.660	9.764	0.269	16.710	2.755	97.100
87	49	2.450	8.038	12.350	12.421	0.317	11.440	2.552	86.000
88	50	2.500	8.202	13.430	13.450	0.365	3.130	2.714	73.300
89	51	2.550	8.366	11.190	11.178	0.304	-1.990	2.720	69.300
90	52	2.600	8.530	20.000	19.974	0.339	-4.090	1.697	51.800
91	53	2.650	8.694	24.990	24.984	0.281	-0.910	1.125	47.200
92	54	2.700	8.858	20.290	20.307	0.342	2.690	1.684	49.800
93	55	2.750	9.022	98.960	98.999	0.503	6.260	0.508	32.900
94	56	2.800	9.186	103.260	103.270	1.314	1.570	1.272	30.800
95	57	2.850	9.350	41.520	41.539	1.403	2.990	3.378	29.100
96	58	2.900	9.514	19.280	19.283	0.980	0.480	5.082	23.000
97	59	2.950	9.678	30.150	30.149	0.733	-0.090	2.431	24.900
98	60	3.000	9.842	35.970	35.971	0.440	0.180	1.223	29.200
99	61	3.050	10.006	42.180	42.169	0.972	-1.700	2.305	21.600
100	62	3.100	10.170	40.150	40.154	0.910	0.620	2.266	18.400
101	63	3.150	10.335	22.280	22.286	0.807	0.960	3.621	20.600
102	64	3.200	10.499	48.580	48.584	0.579	0.680	1.192	23.900
103	65	3.250	10.663	75.200	75.208	0.847	1.280	1.126	24.400
104	66	3.300	10.827	24.050	24.062	0.837	1.850	3.479	15.300
105	67	3.350	10.991	17.160	17.216	0.713	8.910	4.142	23.900
106	68	3.400	11.155	36.940	36.985	0.663	7.140	1.793	16.800
107	69	3.450	11.319	77.410	77.406	0.721	-0.620	0.931	14.900
108	70	3.500	11.483	80.700	80.705	1.103	0.790	1.367	20.100
109	71	3.550	11.647	65.610	65.621	1.577	1.820	2.403	14.500
110	72	3.600	11.811	27.240	27.269	1.313	4.640	4.815	12.300
111	73	3.650	11.975	33.700	33.707	0.808	1.200	2.397	18.700
112	74	3.700	12.139	8.890	8.881	0.626	-1.510	7.049	20.500
113	75	3.750	12.303	15.040	15.045	0.611	0.740	4.061	18.400
114	76	3.800	12.467	19.780	19.799	0.577	3.120	2.914	21.000
115	77	3.850	12.631	25.870	25.869	0.866	-0.220	3.348	16.300
116	78	3.900	12.795	25.360	25.356	0.531	-0.610	2.094	22.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	46.030	46.034	0.536	0.720	1.164	22.000
118	80	4.000	13.123	44.820	44.903	0.891	13.310	1.984	21.400
119	81	4.050	13.287	49.790	49.852	0.984	10.010	1.974	23.200
120	82	4.100	13.451	20.920	20.954	0.837	5.460	3.994	29.500
121	83	4.150	13.615	38.680	38.808	0.642	20.520	1.654	31.300
122	84	4.200	13.779	51.250	51.302	0.674	8.310	1.314	41.200
123	85	4.250	13.943	32.730	32.762	0.735	5.190	2.243	52.700
124	86	4.300	14.107	12.570	12.682	0.605	17.980	4.770	74.000
125	87	4.350	14.271	12.960	13.080	0.550	19.150	4.205	65.200
126	88	4.400	14.436	12.400	12.495	0.532	15.180	4.258	64.500
127	89	4.450	14.600	13.070	13.150	0.624	12.820	4.745	50.100
128	90	4.500	14.764	46.580	46.633	0.783	8.420	1.679	43.800
129	91	4.550	14.928	41.190	41.662	1.423	75.660	3.416	34.000
130	92	4.600	15.092	80.260	80.437	1.832	28.300	2.278	38.800
131	93	4.650	15.256	78.590	78.690	2.074	15.980	2.636	27.200
132	94	4.700	15.420	79.460	79.659	1.968	31.850	2.471	23.300
133	95	4.750	15.584	80.090	80.158	1.581	10.870	1.972	35.100
134	96	4.800	15.748	111.440	111.503	1.809	10.070	1.622	28.500
135	97	4.850	15.912	174.600	174.727	1.981	20.340	1.134	32.100
136	98	4.900	16.076	121.770	121.921	2.465	24.190	2.022	35.100
137	99	4.950	16.240	97.500	97.543	2.076	6.860	2.128	24.500
138	100	5.000	16.404	95.590	95.603	2.398	2.030	2.508	38.700
139	101	5.050	16.568	64.170	64.204	2.330	5.420	3.629	39.000
140	102	5.100	16.732	30.820	30.974	1.955	24.640	6.312	39.900
141	103	5.150	16.896	59.650	59.803	1.468	24.430	2.455	43.600
142	104	5.200	17.060	56.910	56.978	1.518	10.970	2.664	60.600
143	105	5.250	17.224	74.740	74.731	1.807	-1.420	2.418	66.600
144	106	5.300	17.388	48.880	48.882	1.479	0.400	3.026	67.700
145	107	5.350	17.552	35.180	35.223	1.185	6.940	3.364	80.900
146	108	5.400	17.716	36.070	36.238	0.971	26.890	2.680	82.400
147	109	5.450	17.880	43.250	43.326	1.104	12.180	2.548	84.700
148	110	5.500	18.044	45.390	45.369	1.137	-3.420	2.506	79.200
149	111	5.550	18.208	36.120	36.124	1.154	0.650	3.195	77.200
150	112	5.600	18.372	35.270	35.293	1.035	3.640	2.933	78.900
151	113	5.650	18.537	35.040	35.084	1.044	7.000	2.976	80.200
152	114	5.700	18.701	34.760	34.799	0.971	6.220	2.790	68.500
153	115	5.750	18.865	29.650	29.671	0.956	3.360	3.222	52.600
154	116	5.800	19.029	36.450	36.450	1.532	-0.040	4.203	48.800
155	117	5.850	19.193	156.380	156.485	2.241	16.810	1.432	33.000
156	118	5.900	19.357	115.730	115.769	1.928	6.210	1.665	23.200
157	119	5.950	19.521	65.660	65.691	1.763	5.020	2.684	25.500
158	120	6.000	19.685	48.640	48.695	1.221	8.770	2.507	24.100
159	121	6.050	19.849	34.370	34.555	1.390	29.560	4.023	23.200
160	122	6.100	20.013	60.750	61.000	1.273	39.980	2.087	17.000
161	123	6.150	20.177	67.980	68.003	1.224	3.730	1.800	14.400
162	124	6.200	20.341	77.670	77.755	1.428	13.670	1.837	16.100
163	125	6.250	20.505	118.470	118.623	1.390	24.440	1.172	12.900
164	126	6.300	20.669	93.720	93.750	1.333	4.870	1.422	10.400
165	127	6.350	20.833	70.060	70.123	0.996	10.030	1.420	11.000
166	128	6.400	20.997	62.150	62.172	0.865	3.480	1.391	6.100
167	129	6.450	21.161	73.070	73.088	0.987	2.940	1.350	10.700
168	130	6.500	21.325	172.060	172.128	1.245	10.910	0.723	8.100
169	131	6.550	21.489	167.210	167.501	1.527	46.660	0.912	10.700
170	132	6.600	21.653	83.260	83.319	2.008	9.490	2.410	11.600
171	133	6.650	21.817	104.500	104.633	1.956	21.230	1.869	9.600
172	134	6.700	21.981	71.210	71.570	1.538	57.680	2.149	8.500
173	135	6.750	22.145	94.440	94.490	0.992	7.940	1.050	10.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	181.930	181.956	1.574	4.220	0.865	7.000
175	137	6.850	22.473	219.240	219.247	2.558	1.150	1.167	9.700
176	138	6.900	22.638	252.830	252.865	2.688	5.610	1.063	8.600
177	139	6.950	22.802	73.420	73.564	2.372	23.080	3.224	12.000
178	140	7.000	22.966	196.550	196.609	1.897	9.390	0.965	11.000
179	141	7.050	23.130	78.420	78.422	1.784	0.270	2.275	8.500
180	142	7.100	23.294	105.490	105.607	1.655	18.780	1.567	11.100
181	143	7.150	23.458	85.200	85.364	1.392	26.230	1.631	7.500
182	144	7.200	23.622	78.160	78.190	1.433	4.870	1.833	4.900
183	145	7.250	23.786	67.900	67.953	1.261	8.550	1.856	9.500
184	146	7.300	23.950	51.420	51.460	0.922	6.360	1.792	8.600
185	147	7.350	24.114	46.940	46.975	0.993	5.670	2.114	12.100
186	148	7.400	24.278	48.960	49.000	1.111	6.380	2.267	14.600
187	149	7.450	24.442	55.060	55.101	0.890	6.500	1.615	14.300
188	150	7.500	24.606	103.370	103.368	1.661	-0.250	1.607	11.500
189	151	7.550	24.770	111.340	111.370	2.074	4.730	1.862	13.100
190	152	7.600	24.934	57.820	57.843	2.015	3.650	3.484	20.900
191	153	7.650	25.098	38.440	38.524	1.570	13.430	4.075	14.600
192	154	7.700	25.262	86.680	86.874	1.103	31.020	1.270	15.300
193	155	7.750	25.426	100.180	100.257	1.430	12.280	1.426	26.500
194	156	7.800	25.590	105.740	105.805	1.955	10.480	1.848	38.700
195	157	7.850	25.754	60.430	60.487	1.659	9.210	2.743	54.000
196	158	7.900	25.918	21.550	21.616	1.124	10.500	5.200	68.000
197	159	7.950	26.082	18.230	18.321	0.510	14.600	2.784	73.600
198	160	8.000	26.246	17.890	17.991	0.494	16.100	2.746	90.500
199	161	8.050	26.410	21.430	21.539	0.282	17.460	1.309	85.400
200	162	8.100	26.574	36.390	36.415	0.952	3.930	2.614	74.700
201	163	8.150	26.739	46.620	46.630	0.995	1.580	2.134	80.600
202	164	8.200	26.903	26.770	26.801	1.063	4.990	3.966	69.900
203	165	8.250	27.067	42.880	42.945	0.811	10.480	1.888	60.400
204	166	8.300	27.231	61.450	61.500	1.078	8.030	1.753	54.000
205	167	8.350	27.395	47.280	47.303	1.396	3.710	2.951	45.300
206	168	8.400	27.559	48.970	49.067	1.268	15.560	2.584	39.600
207	169	8.450	27.723	25.660	25.683	1.017	3.650	3.960	50.700
208	170	8.500	27.887	25.240	25.277	0.797	5.970	3.153	59.800
209	171	8.550	28.051	16.210	16.287	0.622	12.390	3.819	56.000
210	172	8.600	28.215	16.100	16.186	2.421	13.810	14.957	47.500
211	173	8.650	28.379	19.420	19.552	1.838	21.220	9.400	41.900
212	174	8.700	28.543	37.740	37.817	2.912	12.280	7.700	36.900
213	175	8.750	28.707	56.320	56.344	2.422	3.870	4.299	37.000
214	176	8.800	28.871	42.900	43.084	1.163	29.470	2.699	29.600
215	177	8.850	29.035	18.930	19.042	1.035	18.020	5.435	35.900
216	178	8.900	29.199	14.190	14.307	0.827	18.770	5.780	32.000
217	179	8.950	29.363	51.780	51.966	0.517	29.790	0.995	29.800
218	180	9.000	29.527	89.440	89.407	1.753	-5.310	1.961	34.300
219	181	9.050	29.691	51.250	51.232	2.020	-2.960	3.943	31.900
220	182	9.100	29.855	39.500	39.592	2.111	14.720	5.332	31.100
221	183	9.150	30.019	35.770	35.827	1.339	9.120	3.737	31.500
222	184	9.200	30.183	35.670	35.791	1.197	19.360	3.344	39.900
223	185	9.250	30.347	30.780	30.892	0.965	17.930	3.124	45.800
224	186	9.300	30.511	21.990	22.014	0.830	3.840	3.770	50.000
225	187	9.350	30.675	24.470	24.457	0.886	-2.090	3.623	48.200
226	188	9.400	30.840	23.260	23.342	0.939	13.210	4.023	53.800
227	189	9.450	31.004	29.220	29.320	1.171	15.970	3.994	46.600
228	190	9.500	31.168	38.880	39.006	1.362	20.250	3.492	39.100
229	191	9.550	31.332	60.270	60.255	1.809	-2.430	3.002	42.200
230	192	9.600	31.496	108.900	108.912	2.031	1.900	1.865	38.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	102.300	102.313	1.879	2.100	1.837	34.500
232	194	9.700	31.824	118.500	118.534	1.794	5.480	1.513	47.100
233	195	9.750	31.988	114.280	114.307	1.730	4.250	1.513	56.500
234	196	9.800	32.152	88.180	88.218	1.922	6.130	2.179	64.900
235	197	9.850	32.316	72.580	72.631	2.163	8.220	2.978	86.900
236	198	9.900	32.480	67.140	67.174	2.144	5.520	3.192	81.900
237	199	9.950	32.644	66.710	66.751	1.951	6.530	2.923	85.300
238	200	10.000	32.808	50.760	50.780	1.632	3.280	3.214	82.400
239	201	10.050	32.972	44.450	44.462	1.185	2.000	2.665	69.300
240	202	10.100	33.136	34.770	34.783	1.208	2.120	3.473	70.300
241	203	10.150	33.300	37.730	37.735	1.408	0.820	3.731	82.700
242	204	10.200	33.464	33.160	33.196	1.474	5.820	4.440	62.200
243	205	10.250	33.628	68.080	68.115	1.511	5.650	2.218	65.400
244	206	10.300	33.792	80.950	80.958	0.943	1.350	1.165	66.600
245	207	10.350	33.956	72.760	72.766	1.938	0.990	2.663	66.400
246	208	10.400	34.120	59.350	59.372	2.126	3.580	3.581	76.700
247	209	10.450	34.284	100.840	100.975	2.136	21.680	2.115	82.200
248	210	10.500	34.448	123.250	123.331	2.188	12.960	1.774	83.200
249	211	10.550	34.612	130.570	130.633	2.025	10.070	1.550	75.100
250	212	10.600	34.776	105.340	105.395	1.719	8.770	1.631	85.200
251	213	10.650	34.941	82.310	82.350	1.707	6.410	2.073	74.900
252	214	10.700	35.105	60.110	60.132	1.594	3.570	2.651	64.800
253	215	10.750	35.269	37.360	37.378	1.855	2.860	4.963	62.700
254	216	10.800	35.433	79.880	79.936	2.156	8.960	2.697	43.400
255	217	10.850	35.597	79.570	80.315	2.598	119.360	3.235	39.600
256	218	10.900	35.761	69.960	69.998	2.595	6.010	3.707	54.100
257	219	10.950	35.925	43.050	43.051	1.761	0.150	4.091	57.800
258	220	11.000	36.089	28.530	28.582	1.311	8.270	4.587	69.300
259	221	11.050	36.253	19.440	19.481	0.789	6.510	4.050	88.500
260	222	11.100	36.417	17.360	17.436	0.487	12.120	2.793	78.400
261	223	11.150	36.581	18.360	18.445	0.471	13.630	2.554	87.900
262	224	11.200	36.745	18.590	18.690	0.547	15.970	2.927	85.700
263	225	11.250	36.909	19.520	19.627	1.286	17.130	6.552	97.500
264	226	11.300	37.073	20.590	20.701	1.428	17.840	6.898	97.000
265	227	11.350	37.237	27.350	27.467	1.476	18.780	5.374	84.300
266	228	11.400	37.401	25.320	25.373	1.395	8.470	5.498	93.100
267	229	11.450	37.565	18.680	18.732	0.846	8.350	4.516	78.300
268	230	11.500	37.729	23.310	23.341	0.715	5.030	3.063	80.900
269	231	11.550	37.893	16.730	16.741	0.603	1.770	3.602	78.000
270	232	11.600	38.057	14.890	14.904	0.535	2.290	3.590	69.700
271	233	11.650	38.221	18.160	18.188	0.517	4.500	2.843	74.500
272	234	11.700	38.385	24.080	24.133	0.572	8.470	2.370	72.100
273	235	11.750	38.549	27.110	27.165	0.703	8.830	2.588	100.500
274	236	11.800	38.713	24.070	24.135	0.780	10.350	3.232	111.800
275	237	11.850	38.877	27.060	27.165	0.903	16.750	3.324	125.900
276	238	11.900	39.042	28.920	29.019	0.982	15.860	3.384	110.500
277	239	11.950	39.206	25.830	25.904	1.066	11.930	4.115	107.800
278	240	12.000	39.370	23.760	23.794	0.849	5.490	3.568	93.200
279	241	12.050	39.534	18.610	18.686	0.591	12.210	3.163	77.800
280	242	12.100	39.698	13.610	13.680	0.508	11.240	3.713	86.000
281	243	12.150	39.862	14.190	14.275	0.513	13.560	3.594	102.200
282	244	12.200	40.026	13.620	13.701	1.145	12.900	8.357	113.500
283	245	12.250	40.190	14.600	14.678	1.300	12.560	8.857	94.100
284	246	12.300	40.354	22.220	22.308	1.385	14.170	6.208	100.100
285	247	12.350	40.518	22.400	22.507	1.315	17.070	5.843	96.400
286	248	12.400	40.682	25.050	25.184	0.831	21.510	3.300	105.400
287	249	12.450	40.846	33.640	33.781	0.928	22.530	2.747	84.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	33.840	33.953	0.953	18.180	2.807	87.800
289	251	12.550	41.174	34.230	34.370	1.051	22.470	3.058	78.400
290	252	12.600	41.338	55.130	55.326	1.697	31.380	3.067	66.600
291	253	12.650	41.502	60.990	61.149	1.978	25.450	3.235	67.800
292	254	12.700	41.666	57.750	57.879	1.979	20.620	3.419	60.700
293	255	12.750	41.830	48.640	49.054	2.198	66.360	4.481	47.200
294	256	12.800	41.994	32.730	33.112	1.604	61.120	4.844	46.600
295	257	12.850	42.158	153.730	154.102	1.696	59.640	1.101	38.300
296	258	12.900	42.322	107.530	107.535	2.272	0.860	2.113	29.300
297	259	12.950	42.486	77.140	77.232	2.619	14.810	3.391	24.200
298	260	13.000	42.650	40.950	41.058	2.135	17.240	5.200	24.900
299	261	13.050	42.814	23.790	23.991	1.485	32.210	6.190	30.700
300	262	13.100	42.978	20.710	20.911	0.905	32.270	4.328	35.800
301	263	13.150	43.143	21.230	21.473	0.880	38.850	4.098	30.800
302	264	13.200	43.307	44.610	44.900	1.298	46.510	2.891	25.000
303	265	13.250	43.471	52.280	52.374	1.743	15.100	3.328	19.900
304	266	13.300	43.635	68.730	68.855	1.726	19.960	2.507	21.400
305	267	13.350	43.799	74.390	74.573	2.183	29.260	2.927	12.600
306	268	13.400	43.963	57.870	57.983	2.584	18.150	4.456	24.000
307	269	13.450	44.127	105.890	106.911	2.849	163.480	2.665	24.600
308	270	13.500	44.291	60.880	61.620	2.836	118.480	4.602	35.400
309	271	13.550	44.455	95.390	97.092	2.712	272.670	2.793	29.800
310	272	13.600	44.619	91.230	91.401	2.592	27.380	2.836	40.100
311	273	13.650	44.783	68.470	68.591	2.527	19.350	3.684	43.700
312	274	13.700	44.947	60.510	60.602	1.879	14.690	3.101	54.100
313	275	13.750	45.111	83.200	83.346	2.178	23.460	2.613	39.200
314	276	13.800	45.275	68.630	68.700	2.182	11.280	3.176	37.100
315	277	13.850	45.439	49.830	50.037	2.005	33.220	4.007	44.400
316	278	13.900	45.603	42.720	43.030	1.463	49.720	3.400	51.700
317	279	13.950	45.767	29.740	29.849	1.212	17.480	4.060	58.200
318	280	14.000	45.931	21.600	21.656	0.691	8.930	3.191	77.600
319	281	14.050	46.095	30.780	30.907	0.474	20.300	1.534	87.800
320	282	14.100	46.259	45.490	45.601	0.758	17.850	1.662	92.900
321	283	14.150	46.423	43.300	43.425	0.971	20.070	2.236	88.800
322	284	14.200	46.587	40.540	40.816	0.953	44.260	2.335	83.700
323	285	14.250	46.751	45.750	46.001	1.060	40.270	2.304	84.800
324	286	14.300	46.915	37.280	37.408	0.939	20.550	2.510	68.300
325	287	14.350	47.079	33.940	34.080	0.929	22.410	2.726	73.500
326	288	14.400	47.244	26.680	26.738	0.693	9.290	2.592	56.800
327	289	14.450	47.408	28.840	28.888	0.829	7.670	2.870	46.600
328	290	14.500	47.572	36.580	36.611	0.860	5.040	2.349	44.900
329	291	14.550	47.736	30.380	30.420	0.937	6.450	3.080	40.800
330	292	14.600	47.900	30.210	30.246	0.895	5.750	2.959	30.300
331	293	14.650	48.064	27.630	27.657	1.153	4.350	4.169	27.700
332	294	14.700	48.228	43.700	43.751	1.746	8.100	3.991	33.000
333	295	14.750	48.392	44.500	44.612	1.693	17.870	3.795	33.700
334	296	14.800	48.556	49.580	49.816	1.699	37.800	3.411	31.100
335	297	14.850	48.720	19.230	19.292	1.228	9.860	6.365	44.800
336	298	14.900	48.884	17.330	17.408	0.894	12.570	5.135	39.700
337	299	14.950	49.048	18.980	19.111	0.727	20.990	3.804	36.700
338	300	15.000	49.212	28.900	28.995	0.852	15.220	2.938	32.600
339	301	15.050	49.376	26.410	26.480	1.116	11.170	4.215	33.000
340	302	15.100	49.540	40.240	40.378	1.432	22.100	3.546	28.500
341	303	15.150	49.704	36.460	36.717	1.573	41.170	4.284	24.800
342	304	15.200	49.868	61.790	62.104	1.663	50.280	2.678	18.800
343	305	15.250	50.032	56.120	56.316	1.666	31.450	2.958	18.400
344	306	15.300	50.196	55.840	55.914	1.523	11.890	2.724	25.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	37.470	37.525	1.157	8.770	3.083	27.500
346	308	15.400	50.524	39.370	39.446	1.102	12.170	2.794	34.900
347	309	15.450	50.688	42.680	42.746	0.875	10.520	2.047	47.500
348	310	15.500	50.852	30.450	30.525	0.850	12.080	2.785	52.100
349	311	15.550	51.016	25.340	25.490	0.749	24.020	2.938	80.000
350	312	15.600	51.180	20.530	20.620	0.789	14.390	3.826	77.300
351	313	15.650	51.345	20.540	20.664	0.858	19.870	4.152	82.000
352	314	15.700	51.509	25.150	25.319	0.950	27.070	3.752	81.200
353	315	15.750	51.673	110.930	111.640	2.403	113.700	2.152	82.700
354	316	15.800	51.837	148.490	148.597	3.497	17.180	2.353	66.200
355	317	15.850	52.001	141.640	141.680	4.286	6.390	3.025	69.300
356	318	15.900	52.165	169.770	169.826	4.309	8.930	2.537	64.600
357	319	15.950	52.329	154.810	154.831	3.833	3.380	2.476	52.000
358	320	16.000	52.493	89.410	89.433	3.079	3.660	3.443	66.300
359	321	16.050	52.657	62.020	62.038	2.224	2.820	3.585	69.800
360	322	16.100	52.821	47.190	47.224	1.937	5.420	4.102	67.700
361	323	16.150	52.985	37.830	37.865	1.364	5.580	3.602	66.500
362	324	16.200	53.149	30.200	30.244	1.173	7.120	3.878	70.200
363	325	16.250	53.313	22.670	22.718	0.921	7.650	4.054	75.200
364	326	16.300	53.477	22.280	22.330	0.785	8.070	3.515	61.700
365	327	16.350	53.641	41.360	41.424	0.823	10.320	1.987	73.600
366	328	16.400	53.805	41.440	41.509	1.492	10.980	3.594	76.000
367	329	16.450	53.969	52.560	52.645	1.931	13.630	3.668	84.400
368	330	16.500	54.133	35.140	35.171	2.047	4.990	5.820	82.700
369	331	16.550	54.297	85.680	85.725	3.293	7.130	3.841	74.000
370	332	16.600	54.461	64.570	64.568	2.639	-0.360	4.087	72.800
371	333	16.650	54.625	31.270	31.278	2.357	1.260	7.536	64.900
372	334	16.700	54.789	35.000	35.020	1.082	3.190	3.090	62.000
373	335	16.750	54.953	34.700	34.699	0.883	-0.190	2.545	57.400
374	336	16.800	55.117	33.170	33.164	0.776	-0.910	2.340	55.200
375	337	16.850	55.281	31.070	31.054	1.018	-2.510	3.278	41.400
376	338	16.900	55.446	50.580	50.613	0.883	5.260	1.745	37.600
377	339	16.950	55.610	30.940	30.970	0.827	4.850	2.670	27.300
378	340	17.000	55.774	30.740	30.753	0.559	2.160	1.818	24.100
379	341	17.050	55.938	23.910	23.926	0.322	2.510	1.346	25.600
380	342	17.100	56.102	13.560	13.568	0.328	1.290	2.417	25.000
381	343	17.150	56.266	16.180	16.193	0.327	2.030	2.019	24.900
382	344	17.200	56.430	20.080	20.096	0.439	2.510	2.185	30.300
383	345	17.250	56.594	20.500	20.545	0.430	7.270	2.093	37.300
384	346	17.300	56.758	37.080	37.120	0.772	6.420	2.080	46.500
385	347	17.350	56.922	44.170	44.179	1.003	1.410	2.270	49.100
386	348	17.400	57.086	41.290	41.296	1.258	0.970	3.046	54.000
387	349	17.450	57.250	44.300	44.318	1.082	2.890	2.441	62.100
388	350	17.500	57.414	43.950	43.957	1.217	1.160	2.769	57.700
389	351	17.550	57.578	38.390	38.385	1.195	-0.730	3.113	49.700
390	352	17.600	57.742	26.550	26.540	1.272	-1.650	4.793	57.900
391	353	17.650	57.906	40.850	40.867	1.261	2.710	3.086	53.300
392	354	17.700	58.070	33.310	33.346	1.228	5.780	3.683	62.800
393	355	17.750	58.234	34.880	34.921	1.299	6.570	3.720	75.200
394	356	17.800	58.398	38.060	38.040	1.388	-3.230	3.649	66.300
395	357	17.850	58.562	32.350	32.326	1.061	-3.820	3.282	57.600
396	358	17.900	58.726	36.170	36.141	0.976	-4.580	2.701	45.600
397	359	17.950	58.890	25.070	25.067	0.836	-0.500	3.335	40.900
398	360	18.000	59.054	19.550	19.560	0.882	1.580	4.509	31.300
399	361	18.050	59.218	38.400	38.418	0.868	2.880	2.259	27.000
400	362	18.100	59.382	18.270	18.272	0.763	0.340	4.176	29.500
401	363	18.150	59.547	24.570	24.596	0.957	4.180	3.891	32.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	33.930	33.950	1.038	3.180	3.057	36.200
403	365	18.250	59.875	36.020	36.049	1.262	4.590	3.501	39.400
404	366	18.300	60.039	34.130	34.151	1.158	3.370	3.391	31.300
405	367	18.350	60.203	39.700	39.712	1.202	1.940	3.027	28.000
406	368	18.400	60.367	43.960	43.989	1.771	4.570	4.026	17.400
407	369	18.450	60.531	47.130	47.200	1.821	11.290	3.858	20.400
408	370	18.500	60.695	38.850	38.990	1.918	22.450	4.919	17.700
409	371	18.550	60.859	35.060	35.134	1.398	11.800	3.979	16.900
410	372	18.600	61.023	42.860	42.977	1.082	18.770	2.518	25.400
411	373	18.650	61.187	26.520	26.496	1.131	-3.770	4.268	27.800
412	374	18.700	61.351	58.660	58.709	1.177	7.870	2.005	34.700
413	375	18.750	61.515	59.240	59.280	1.561	6.390	2.633	37.300
414	376	18.800	61.679	56.850	56.873	1.833	3.760	3.223	44.600
415	377	18.850	61.843	31.490	31.508	1.832	2.870	5.814	49.000
416	378	18.900	62.007	37.550	37.586	1.427	5.780	3.797	49.700
417	379	18.950	62.171	48.970	48.979	1.370	1.450	2.797	56.900
418	380	19.000	62.335	41.970	41.965	1.303	-0.860	3.105	27.500
419	381	19.050	62.499	33.990	33.990	1.309	0.000	3.851	34.500
420	382	19.100	62.663	38.480	38.550	1.633	11.200	4.236	23.800
421	383	19.150	62.827	44.560	44.605	1.337	7.270	2.997	19.400
422	384	19.200	62.991	44.300	44.364	1.233	10.270	2.779	12.400
423	385	19.250	63.155	67.320	67.350	1.630	4.760	2.420	16.800
424	386	19.300	63.319	84.430	84.469	1.728	6.260	2.046	15.300
425	387	19.350	63.483	58.920	58.950	1.858	4.800	3.152	16.400
426	388	19.400	63.648	45.090	45.540	1.657	72.040	3.639	12.900
427	389	19.450	63.812	47.060	47.155	1.713	15.290	3.633	13.900
428	390	19.500	63.976	62.820	62.912	1.867	14.790	2.968	13.700
429	391	19.550	64.140	66.610	66.778	2.050	26.910	3.070	16.600
430	392	19.600	64.304	52.230	52.315	1.895	13.540	3.622	22.900
431	393	19.650	64.468	39.990	40.084	1.593	15.080	3.974	24.200
432	394	19.700	64.632	46.030	46.144	1.169	18.330	2.533	31.000
433	395	19.750	64.796	34.430	34.457	0.765	4.280	2.220	30.400
434	396	19.800	64.960	41.320	41.338	0.633	2.950	1.531	34.100
435	397	19.850	65.124	50.280	50.327	0.453	7.520	0.900	33.000
436	398	19.900	65.288	58.060	58.101	0.918	6.600	1.580	30.100
437	399	19.950	65.452	52.530	52.560	1.115	4.860	2.121	32.700
438	400	20.000	65.616	35.950	36.054	1.294	16.680	3.589	20.600
439	401	20.050	65.780	56.620	56.699	1.259	12.580	2.221	19.700
440	402	20.100	65.944	61.210	61.309	1.129	15.800	1.842	23.600
441	403	20.150	66.108	64.840	64.921	1.194	13.050	1.839	21.800
442	404	20.200	66.272	73.620	73.720	1.266	16.040	1.717	22.900
443	405	20.250	66.436	82.010	82.129	1.481	19.030	1.803	31.400
444	406	20.300	66.600	59.870	60.024	1.249	24.670	2.081	27.000
445	407	20.350	66.764	49.380	49.585	1.139	32.860	2.297	34.600
446	408	20.400	66.928	54.790	54.876	1.281	13.700	2.334	34.500
447	409	20.450	67.092	85.740	85.802	1.396	9.970	1.627	38.900
448	410	20.500	67.256	74.770	74.841	1.786	11.340	2.386	42.800
449	411	20.550	67.420	127.650	127.713	2.151	10.050	1.684	36.900
450	412	20.600	67.584	167.710	167.790	2.156	12.770	1.285	36.600
451	413	20.650	67.749	161.780	161.931	2.705	24.150	1.670	28.700
452	414	20.700	67.913	91.740	91.916	3.048	28.130	3.316	19.500
453	415	20.750	68.077	118.530	118.647	2.697	18.690	2.273	14.300
454	416	20.800	68.241	127.900	128.038	2.196	22.150	1.715	16.100
455	417	20.850	68.405	123.510	123.602	2.172	14.760	1.757	14.800
456	418	20.900	68.569	99.540	99.624	2.143	13.460	2.151	21.900
457	419	20.950	68.733	63.550	63.655	2.080	16.890	3.268	23.600
458	420	21.000	68.897	58.780	58.928	1.753	23.630	2.975	28.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	76.370	76.629	1.210	41.450	1.579	29.400
460	422	21.100	69.225	112.320	112.375	2.272	8.890	2.022	42.500
461	423	21.150	69.389	108.640	108.679	3.503	6.230	3.223	42.900
462	424	21.200	69.553	61.460	61.584	2.965	19.800	4.815	33.800
463	425	21.250	69.717	163.140	163.575	4.882	69.730	2.985	33.200
464	426	21.300	69.881	187.180	187.297	5.567	18.770	2.972	32.700
465	427	21.350	70.045	130.050	130.195	5.292	23.200	4.065	30.700
466	428	21.400	70.209	63.650	64.090	3.180	70.500	4.962	26.300
467	429	21.450	70.373	64.890	65.020	1.911	20.770	2.939	13.500
468	430	21.500	70.537	70.640	70.700	2.098	9.670	2.967	11.900
469	431	21.550	70.701	80.870	80.998	2.791	20.440	3.446	12.400
470	432	21.600	70.865	64.130	64.263	2.406	21.280	3.744	11.600
471	433	21.650	71.029	70.470	70.583	2.476	18.140	3.508	11.200
472	434	21.700	71.193	60.340	60.649	2.413	49.550	3.979	12.000
473	435	21.750	71.357	66.080	66.508	2.311	68.620	3.475	14.500
474	436	21.800	71.521	65.590	65.723	2.214	21.360	3.369	16.000
475	437	21.850	71.685	98.290	98.395	2.621	16.750	2.664	18.900
476	438	21.900	71.850	105.650	105.785	2.827	21.660	2.672	25.600
477	439	21.950	72.014	64.420	64.541	2.942	19.430	4.558	35.100
478	440	22.000	72.178	67.220	67.391	2.367	27.440	3.512	37.000
479	441	22.050	72.342	47.340	48.086	1.930	119.550	4.014	28.700
480	442	22.100	72.506	64.240	64.643	2.323	64.590	3.594	20.600
481	443	22.150	72.670	63.260	64.095	2.743	133.700	4.280	22.100
482	444	22.200	72.834	77.500	78.207	3.587	113.310	4.587	18.700
483	445	22.250	72.998	118.610	118.759	4.435	23.880	3.734	11.700
484	446	22.300	73.162	131.040	131.157	3.966	18.740	3.024	9.800
485	447	22.350	73.326	103.570	103.911	3.944	54.690	3.796	16.800
486	448	22.400	73.490	90.650	90.778	2.972	20.580	3.274	11.300
487	449	22.450	73.654	70.940	71.536	2.897	95.510	4.050	16.500
488	450	22.500	73.818	74.080	74.198	3.050	18.980	4.111	23.100
489	451	22.550	73.982	55.280	55.600	3.255	51.260	5.854	15.500
490	452	22.600	74.146	48.260	48.951	5.196	110.650	10.615	18.100
491	453	22.650	74.310	60.180	60.615	5.591	69.760	9.224	15.300
492	454	22.700	74.474	106.410	106.620	4.420	33.570	4.146	15.500
493	455	22.750	74.638	76.930	76.952	3.656	3.500	4.751	17.200
494	456	22.800	74.802	53.460	53.386	3.384	-11.820	6.339	17.300
495	457	22.850	74.966	33.610	33.720	2.169	17.700	6.432	17.700
496	458	22.900	75.130	45.820	45.851	0.976	5.040	2.129	16.300
497	459	22.950	75.294	25.950	25.968	0.259	2.870	0.997	18.200
498	460	23.000	75.458	7.040	7.059	0.165	3.090	2.337	33.200
499	461	23.050	75.622	4.760	4.784	0.195	3.860	4.076	0.000
500	462	23.100	75.786	6.060	6.086	0.133	4.090	2.186	0.000
501	463	23.150	75.951	14.160	14.186	0.223	4.110	1.572	0.000
502	464	23.200	76.115	50.430	50.471	0.340	6.540	0.674	0.000
503	465	23.250	76.279	80.270	80.336	0.493	10.610	0.614	0.000
504	466	23.300	76.443	123.020	123.099	0.649	12.590	0.527	0.000
505	467	23.350	76.607	158.210	158.291	0.948	12.980	0.599	0.000
506	468	23.400	76.771	196.180	196.236	1.339	8.970	0.682	0.000
507	469	23.450	76.935	225.980	226.044	1.923	10.250	0.851	0.000
508	470	23.500	77.099	249.630	249.710	2.457	12.810	0.984	0.000
509	471	23.550	77.263	271.740	271.835	2.396	15.290	0.881	0.000
510	472	23.600	77.427	296.480	296.593	2.298	18.070	0.775	0.000
511	473	23.650	77.591	332.120	332.211	0.000	14.540	0.000	0.000
512	474	23.700	77.755	355.280	355.416	0.000	21.770	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272404				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-11A				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-18-2015				
14		CPT Time:			13:55				
15		CPT File:			15-53039_GP1D-11A.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722160.740				
31		Northing / Lat:			4294211.285				
32		Elevation:			159.270				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	26.250	26.257	0.029	1.080	0.110	17.400
40	2	0.100	0.328	115.810	115.809	0.192	-0.210	0.166	23.000
41	3	0.150	0.492	108.070	108.164	0.289	14.980	0.267	31.800
42	4	0.200	0.656	83.860	83.900	0.470	6.370	0.560	47.700
43	5	0.250	0.820	125.120	125.182	0.782	9.950	0.625	58.100
44	6	0.300	0.984	160.100	160.294	1.043	31.100	0.651	77.200
45	7	0.350	1.148	101.450	101.729	1.115	44.700	1.096	85.600
46	8	0.400	1.312	72.970	72.934	1.223	-5.710	1.677	88.900
47	9	0.450	1.476	74.010	74.051	1.483	6.540	2.003	103.000
48	10	0.500	1.640	79.830	79.875	1.278	7.210	1.600	110.800
49	11	0.550	1.804	90.010	90.053	1.384	6.960	1.537	109.000
50	12	0.600	1.968	101.710	101.711	1.571	0.110	1.545	96.800
51	13	0.650	2.133	100.550	100.543	1.741	-1.050	1.732	104.700
52	14	0.700	2.297	107.960	107.982	1.924	3.600	1.782	105.300
53	15	0.750	2.461	114.410	114.437	1.964	4.320	1.716	93.500
54	16	0.800	2.625	128.660	128.622	1.968	-6.010	1.530	93.200
55	17	0.850	2.789	122.560	122.501	1.983	-9.410	1.619	79.000
56	18	0.900	2.953	102.290	102.223	1.858	-10.770	1.818	104.600
57	19	0.950	3.117	79.980	79.916	1.650	-10.220	2.065	89.900
58	20	1.000	3.281	59.410	59.360	1.251	-7.950	2.107	78.800
59	21	1.050	3.445	47.610	47.566	0.764	-7.090	1.606	76.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	38.570	38.540	0.603	-4.730	1.565	66.600
61	23	1.150	3.773	41.700	41.700	0.580	-0.070	1.391	65.800
62	24	1.200	3.937	64.940	64.944	0.786	0.610	1.210	58.000
63	25	1.250	4.101	90.660	90.685	1.064	4.060	1.173	52.700
64	26	1.300	4.265	64.070	64.157	1.316	13.940	2.051	43.000
65	27	1.350	4.429	39.620	39.594	0.830	-4.240	2.096	45.000
66	28	1.400	4.593	22.390	22.408	0.736	2.910	3.285	41.800
67	29	1.450	4.757	27.890	27.907	1.032	2.650	3.698	34.500
68	30	1.500	4.921	17.290	17.276	1.821	-2.210	10.541	40.800
69	31	1.550	5.085	71.140	71.140	1.399	-0.040	1.967	35.500
70	32	1.600	5.249	30.470	30.453	1.672	-2.730	5.490	36.600
71	33	1.650	5.413	49.480	49.467	1.294	-2.080	2.616	50.600
72	34	1.700	5.577	15.160	15.228	0.774	10.840	5.083	64.600
73	35	1.750	5.741	27.110	27.277	0.686	26.830	2.515	71.700
74	36	1.800	5.905	60.340	60.371	0.820	4.980	1.358	70.700
75	37	1.850	6.069	66.730	66.723	1.155	-1.160	1.731	72.200
76	38	1.900	6.234	68.020	68.006	1.080	-2.320	1.588	54.500
77	39	1.950	6.398	57.800	57.799	1.062	-0.180	1.837	44.900
78	40	2.000	6.562	40.200	40.239	1.292	6.210	3.211	32.800
79	41	2.050	6.726	35.780	36.004	1.289	35.950	3.580	36.300
80	42	2.100	6.890	32.870	32.988	1.823	18.930	5.526	28.700
81	43	2.150	7.054	54.980	55.019	1.444	6.300	2.625	21.000
82	44	2.200	7.218	51.020	50.977	1.117	-6.960	2.191	21.600
83	45	2.250	7.382	9.110	9.109	0.665	-0.180	7.301	14.500
84	46	2.300	7.546	35.300	35.354	1.260	8.690	3.564	20.900
85	47	2.350	7.710	92.280	92.467	1.510	29.910	1.633	10.100
86	48	2.400	7.874	126.830	126.836	1.666	0.950	1.314	14.900
87	49	2.450	8.038	103.460	103.562	1.276	16.300	1.232	19.400
88	50	2.500	8.202	141.500	141.487	1.302	-2.130	0.920	16.300
89	51	2.550	8.366	68.520	68.601	1.219	12.940	1.777	14.700
90	52	2.600	8.530	55.000	54.957	1.168	-6.880	2.125	15.300
91	53	2.650	8.694	23.320	23.340	0.909	3.190	3.895	23.500
92	54	2.700	8.858	45.430	45.409	0.936	-3.330	2.061	16.800
93	55	2.750	9.022	43.030	43.038	1.198	1.230	2.784	24.000
94	56	2.800	9.186	23.300	23.315	1.000	2.460	4.289	24.400
95	57	2.850	9.350	12.060	12.072	0.984	1.930	8.151	18.000
96	58	2.900	9.514	36.080	36.094	1.068	2.180	2.959	24.000
97	59	2.950	9.678	51.340	51.390	1.278	7.930	2.487	22.400
98	60	3.000	9.842	44.890	44.887	1.512	-0.420	3.368	19.900
99	61	3.050	10.006	29.000	29.013	0.949	2.040	3.271	19.100
100	62	3.100	10.170	44.340	44.345	1.125	0.780	2.537	25.100
101	63	3.150	10.335	100.320	100.343	1.072	3.710	1.068	29.300
102	64	3.200	10.499	34.740	34.745	1.038	0.840	2.987	23.100
103	65	3.250	10.663	37.880	37.882	0.875	0.250	2.310	39.000
104	66	3.300	10.827	27.120	27.215	0.702	15.230	2.579	44.900
105	67	3.350	10.991	23.760	23.987	0.888	36.350	3.702	43.600
106	68	3.400	11.155	29.820	29.955	0.847	21.570	2.828	56.900
107	69	3.450	11.319	27.200	27.249	0.873	7.880	3.204	57.000
108	70	3.500	11.483	24.330	24.422	0.930	14.770	3.808	63.000
109	71	3.550	11.647	26.990	26.978	0.786	-2.000	2.914	56.000
110	72	3.600	11.811	42.740	42.759	0.966	3.040	2.259	50.600
111	73	3.650	11.975	37.480	37.509	1.002	4.650	2.671	45.300
112	74	3.700	12.139	52.620	52.618	1.364	-0.330	2.592	41.100
113	75	3.750	12.303	64.310	64.370	1.215	9.680	1.888	36.100
114	76	3.800	12.467	27.430	27.441	1.036	1.790	3.775	29.800
115	77	3.850	12.631	16.690	16.697	1.035	1.060	6.199	25.300
116	78	3.900	12.795	28.270	28.420	0.739	23.990	2.600	28.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	18.660	18.673	0.568	2.060	3.042	23.600
118	80	4.000	13.123	23.050	23.048	0.512	-0.280	2.221	11.700
119	81	4.050	13.287	40.070	40.179	0.641	17.460	1.595	18.100
120	82	4.100	13.451	72.140	72.128	0.930	-1.910	1.289	15.500
121	83	4.150	13.615	56.750	56.819	1.226	11.010	2.158	15.200
122	84	4.200	13.779	31.900	31.904	1.138	0.610	3.567	9.700
123	85	4.250	13.943	32.880	32.972	0.752	14.690	2.281	13.900
124	86	4.300	14.107	18.050	18.145	0.672	15.180	3.704	11.500
125	87	4.350	14.271	18.380	18.407	0.509	4.300	2.765	15.600
126	88	4.400	14.436	20.110	20.122	0.418	1.950	2.077	13.200
127	89	4.450	14.600	54.430	54.481	0.542	8.190	0.995	13.100
128	90	4.500	14.764	38.930	38.926	0.609	-0.720	1.565	9.800
129	91	4.550	14.928	37.660	37.714	0.906	8.620	2.402	15.500
130	92	4.600	15.092	39.310	39.303	0.985	-1.180	2.506	19.600
131	93	4.650	15.256	29.290	29.437	1.229	23.490	4.175	16.500
132	94	4.700	15.420	90.470	90.478	1.184	1.230	1.309	19.900
133	95	4.750	15.584	60.860	60.987	1.460	20.320	2.394	10.700
134	96	4.800	15.748	40.270	40.259	2.124	-1.770	5.276	16.800
135	97	4.850	15.912	45.690	45.721	1.784	5.020	3.902	16.800
136	98	4.900	16.076	72.990	73.031	1.771	6.600	2.425	15.700
137	99	4.950	16.240	54.360	54.351	2.393	-1.440	4.403	20.200
138	100	5.000	16.404	52.770	52.773	1.664	0.480	3.153	25.200
139	101	5.050	16.568	37.410	37.412	1.252	0.300	3.347	36.300
140	102	5.100	16.732	42.670	42.662	1.061	-1.360	2.487	33.300
141	103	5.150	16.896	41.130	41.179	0.953	7.780	2.314	25.800
142	104	5.200	17.060	43.590	43.607	0.855	2.740	1.961	19.300
143	105	5.250	17.224	29.140	29.157	0.901	2.690	3.090	18.500
144	106	5.300	17.388	33.930	33.936	0.732	1.030	2.157	17.600
145	107	5.350	17.552	27.360	27.362	0.537	0.320	1.963	10.200
146	108	5.400	17.716	24.960	24.963	0.429	0.450	1.719	18.300
147	109	5.450	17.880	43.580	43.579	0.422	-0.240	0.968	11.800
148	110	5.500	18.044	29.420	29.493	0.369	11.770	1.251	15.900
149	111	5.550	18.208	46.040	46.048	0.553	1.230	1.201	14.200
150	112	5.600	18.372	40.050	40.082	0.521	5.090	1.300	24.400
151	113	5.650	18.537	60.990	61.007	0.715	2.750	1.172	19.600
152	114	5.700	18.701	50.440	50.467	0.525	4.290	1.040	20.300
153	115	5.750	18.865	15.000	15.075	0.440	11.960	2.919	22.200
154	116	5.800	19.029	29.590	29.615	0.347	4.060	1.172	30.700
155	117	5.850	19.193	24.300	24.360	0.350	9.550	1.437	29.900
156	118	5.900	19.357	15.220	15.264	0.376	7.000	2.463	35.400
157	119	5.950	19.521	13.720	13.748	0.367	4.420	2.670	35.800
158	120	6.000	19.685	14.220	14.278	0.414	9.310	2.900	35.500
159	121	6.050	19.849	24.790	24.825	0.577	5.640	2.324	30.000
160	122	6.100	20.013	31.820	31.811	0.694	-1.510	2.182	27.700
161	123	6.150	20.177	28.430	28.463	0.678	5.280	2.382	21.700
162	124	6.200	20.341	44.460	44.457	0.789	-0.460	1.775	26.700
163	125	6.250	20.505	52.240	52.288	0.856	7.740	1.637	27.300
164	126	6.300	20.669	70.720	70.778	0.949	9.350	1.341	24.100
165	127	6.350	20.833	54.290	54.436	1.042	23.360	1.914	29.400
166	128	6.400	20.997	68.340	68.382	1.200	6.710	1.755	33.600
167	129	6.450	21.161	56.880	56.878	1.178	-0.400	2.071	34.600
168	130	6.500	21.325	50.250	50.280	0.896	4.840	1.782	32.100
169	131	6.550	21.489	34.920	34.953	0.768	5.210	2.197	32.700
170	132	6.600	21.653	69.640	69.640	0.846	0.000	1.215	38.400
171	133	6.650	21.817	54.250	54.251	0.898	0.170	1.655	41.500
172	134	6.700	21.981	29.110	29.152	0.999	6.690	3.427	45.300
173	135	6.750	22.145	35.170	35.214	1.022	6.970	2.902	46.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	34.950	34.963	1.128	2.150	3.226	48.600
175	137	6.850	22.473	48.940	49.199	1.409	41.550	2.864	57.100
176	138	6.900	22.638	47.890	47.924	1.503	5.410	3.136	57.100
177	139	6.950	22.802	46.990	47.108	1.467	18.870	3.114	75.100
178	140	7.000	22.966	46.310	46.349	1.427	6.260	3.079	79.000
179	141	7.050	23.130	39.020	38.962	1.298	-9.360	3.331	87.300
180	142	7.100	23.294	28.240	28.177	1.213	-10.050	4.305	81.500
181	143	7.150	23.458	29.400	29.363	1.113	-5.950	3.791	79.000
182	144	7.200	23.622	26.140	26.115	1.040	-3.970	3.982	79.700
183	145	7.250	23.786	42.940	42.917	0.926	-3.670	2.158	53.400
184	146	7.300	23.950	66.940	66.956	1.008	2.580	1.505	56.000
185	147	7.350	24.114	77.230	77.260	1.821	4.880	2.357	41.400
186	148	7.400	24.278	126.970	126.967	2.842	-0.480	2.238	37.300
187	149	7.450	24.442	113.020	113.040	2.167	3.270	1.917	37.800
188	150	7.500	24.606	106.080	106.100	2.355	3.190	2.220	34.000
189	151	7.550	24.770	57.950	58.106	1.090	24.960	1.876	28.900
190	152	7.600	24.934	130.250	130.260	2.188	1.640	1.680	20.000
191	153	7.650	25.098	169.270	169.292	2.178	3.470	1.287	23.100
192	154	7.700	25.262	111.220	111.262	2.441	6.720	2.194	28.000
193	155	7.750	25.426	91.580	91.809	2.396	36.610	2.610	22.300
194	156	7.800	25.590	88.980	89.044	2.135	10.240	2.398	27.500
195	157	7.850	25.754	72.420	72.404	1.831	-2.600	2.529	22.200
196	158	7.900	25.918	102.970	102.977	2.002	1.130	1.944	24.800
197	159	7.950	26.082	193.870	194.305	1.888	69.620	0.972	20.500
198	160	8.000	26.246	115.060	115.080	1.751	3.130	1.522	21.300
199	161	8.050	26.410	86.380	86.408	2.124	4.440	2.458	21.200
200	162	8.100	26.574	69.310	69.424	2.045	18.280	2.946	12.300
201	163	8.150	26.739	57.200	57.215	1.597	2.350	2.791	23.100
202	164	8.200	26.903	87.970	88.042	1.902	11.480	2.160	20.100
203	165	8.250	27.067	122.120	122.133	2.071	2.150	1.696	14.000
204	166	8.300	27.231	103.440	103.450	2.137	1.550	2.066	16.000
205	167	8.350	27.395	109.460	109.485	1.856	3.940	1.695	18.400
206	168	8.400	27.559	81.650	81.726	1.625	12.180	1.988	16.100
207	169	8.450	27.723	69.750	69.772	1.802	3.580	2.583	20.400
208	170	8.500	27.887	78.940	78.932	1.919	-1.340	2.431	26.200
209	171	8.550	28.051	76.770	76.835	1.667	10.390	2.170	23.300
210	172	8.600	28.215	112.100	112.096	2.765	-0.710	2.467	22.600
211	173	8.650	28.379	133.570	133.588	2.462	2.850	1.843	18.600
212	174	8.700	28.543	99.580	99.583	2.885	0.460	2.897	17.200
213	175	8.750	28.707	112.800	112.829	1.752	4.710	1.553	21.500
214	176	8.800	28.871	118.980	119.073	2.182	14.950	1.832	19.500
215	177	8.850	29.035	120.470	120.653	2.300	29.240	1.906	23.800
216	178	8.900	29.199	57.950	57.979	2.161	4.670	3.727	25.900
217	179	8.950	29.363	37.870	38.082	1.546	34.030	4.060	20.600
218	180	9.000	29.527	33.860	33.852	1.169	-1.210	3.453	19.600
219	181	9.050	29.691	43.050	43.140	1.260	14.450	2.921	21.300
220	182	9.100	29.855	35.730	35.775	1.127	7.140	3.150	18.000
221	183	9.150	30.019	41.380	41.379	1.262	-0.200	3.050	22.900
222	184	9.200	30.183	52.380	52.385	0.784	0.850	1.497	30.700
223	185	9.250	30.347	32.850	32.878	1.093	4.430	3.324	30.000
224	186	9.300	30.511	55.200	55.244	0.798	6.970	1.445	38.300
225	187	9.350	30.675	37.980	37.992	0.722	1.880	1.900	50.200
226	188	9.400	30.840	30.750	30.762	0.707	1.900	2.298	60.100
227	189	9.450	31.004	24.970	24.992	0.608	3.520	2.433	54.100
228	190	9.500	31.168	26.400	26.423	0.541	3.630	2.047	70.600
229	191	9.550	31.332	26.790	26.786	0.536	-0.640	2.001	59.300
230	192	9.600	31.496	42.950	42.937	0.898	-2.100	2.091	59.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	59.770	59.768	1.306	-0.360	2.185	51.700
232	194	9.700	31.824	47.370	47.428	1.438	9.310	3.032	49.700
233	195	9.750	31.988	31.320	31.328	1.420	1.310	4.533	60.600
234	196	9.800	32.152	45.330	45.329	0.655	-0.140	1.445	48.800
235	197	9.850	32.316	77.500	77.490	1.093	-1.530	1.410	40.200
236	198	9.900	32.480	87.450	87.453	1.987	0.420	2.272	42.400
237	199	9.950	32.644	92.690	92.681	2.429	-1.450	2.621	27.100
238	200	10.000	32.808	59.360	59.470	2.031	17.640	3.415	31.600
239	201	10.050	32.972	55.270	55.294	2.173	3.870	3.930	27.100
240	202	10.100	33.136	68.600	68.612	1.635	1.880	2.383	22.400
241	203	10.150	33.300	91.410	91.480	1.424	11.280	1.557	18.200
242	204	10.200	33.464	111.660	111.647	1.753	-2.090	1.570	19.700
243	205	10.250	33.628	67.630	67.662	1.824	5.130	2.696	20.500
244	206	10.300	33.792	67.250	67.294	1.818	7.030	2.702	21.700
245	207	10.350	33.956	70.250	70.264	2.012	2.180	2.864	15.600
246	208	10.400	34.120	65.330	65.316	2.198	-2.190	3.365	10.000
247	209	10.450	34.284	60.790	60.802	2.049	1.920	3.370	17.600
248	210	10.500	34.448	88.520	88.514	1.772	-1.020	2.002	20.000
249	211	10.550	34.612	267.360	267.438	2.705	12.540	1.011	13.000
250	212	10.600	34.776	157.550	157.538	2.299	-1.960	1.459	15.600
251	213	10.650	34.941	85.400	85.449	2.619	7.920	3.065	24.100
252	214	10.700	35.105	96.340	96.354	1.763	2.260	1.830	18.600
253	215	10.750	35.269	62.610	62.602	1.443	-1.340	2.305	20.300
254	216	10.800	35.433	41.460	41.445	1.294	-2.390	3.122	18.900
255	217	10.850	35.597	46.130	46.162	1.127	5.120	2.441	19.300
256	218	10.900	35.761	90.490	90.494	1.115	0.680	1.232	17.700
257	219	10.950	35.925	53.560	53.550	1.451	-1.570	2.710	24.600
258	220	11.000	36.089	87.330	87.330	1.418	-0.030	1.624	17.500
259	221	11.050	36.253	63.980	64.018	1.632	6.040	2.549	16.700
260	222	11.100	36.417	44.990	44.975	2.104	-2.400	4.678	22.500
261	223	11.150	36.581	121.700	121.809	2.010	17.490	1.650	23.700
262	224	11.200	36.745	62.570	62.557	2.003	-2.120	3.202	25.700
263	225	11.250	36.909	51.160	51.176	1.578	2.520	3.083	27.100
264	226	11.300	37.073	52.620	52.675	1.622	8.860	3.079	22.700
265	227	11.350	37.237	46.720	46.735	1.494	2.330	3.197	24.400
266	228	11.400	37.401	122.710	122.786	1.280	12.220	1.042	31.700
267	229	11.450	37.565	88.350	88.736	1.351	61.860	1.522	30.900
268	230	11.500	37.729	92.440	92.467	1.655	4.250	1.790	21.500
269	231	11.550	37.893	97.290	97.362	2.206	11.460	2.266	25.200
270	232	11.600	38.057	92.950	93.121	1.941	27.400	2.084	22.100
271	233	11.650	38.221	139.780	139.985	1.752	32.770	1.252	20.800
272	234	11.700	38.385	133.150	133.193	1.547	6.870	1.161	20.400
273	235	11.750	38.549	133.660	133.651	1.040	-1.520	0.778	19.100
274	236	11.800	38.713	132.930	133.008	1.551	12.550	1.166	23.700
275	237	11.850	38.877	160.520	160.674	1.624	24.670	1.011	24.400
276	238	11.900	39.042	121.670	121.751	1.855	12.920	1.524	17.200
277	239	11.950	39.206	102.450	102.569	1.740	19.000	1.696	24.400
278	240	12.000	39.370	106.090	106.130	1.021	6.340	0.962	20.200
279	241	12.050	39.534	90.320	90.398	1.104	12.510	1.221	21.700
280	242	12.100	39.698	107.750	107.796	1.381	7.370	1.281	28.000
281	243	12.150	39.862	115.420	115.696	1.931	44.260	1.669	21.000
282	244	12.200	40.026	139.530	139.929	2.612	63.950	1.867	30.400
283	245	12.250	40.190	218.590	218.839	3.090	39.880	1.412	17.800
284	246	12.300	40.354	178.190	178.308	3.208	18.860	1.799	24.200
285	247	12.350	40.518	162.380	162.416	3.058	5.740	1.883	17.000
286	248	12.400	40.682	111.340	111.386	2.640	7.290	2.370	26.300
287	249	12.450	40.846	75.520	75.530	1.950	1.560	2.582	28.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	76.620	76.680	1.819	9.670	2.372	32.300
289	251	12.550	41.174	70.490	70.468	1.658	-3.540	2.353	34.600
290	252	12.600	41.338	82.870	82.911	2.135	6.500	2.575	39.400
291	253	12.650	41.502	89.850	89.837	1.677	-2.020	1.867	42.200
292	254	12.700	41.666	77.340	77.572	1.029	37.150	1.327	50.400
293	255	12.750	41.830	56.670	57.047	1.180	60.390	2.068	75.100
294	256	12.800	41.994	89.130	89.237	1.390	17.160	1.558	82.100
295	257	12.850	42.158	117.930	118.230	1.700	48.040	1.438	86.800
296	258	12.900	42.322	135.550	135.623	2.110	11.750	1.556	93.000
297	259	12.950	42.486	139.180	139.184	2.672	0.640	1.920	89.900
298	260	13.000	42.650	121.780	121.747	3.277	-5.260	2.692	87.400
299	261	13.050	42.814	98.090	98.058	2.452	-5.130	2.501	74.700
300	262	13.100	42.978	98.520	98.499	2.919	-3.390	2.963	70.100
301	263	13.150	43.143	111.970	111.954	2.186	-2.500	1.953	53.200
302	264	13.200	43.307	94.200	94.254	3.346	8.630	3.550	41.400
303	265	13.250	43.471	127.890	127.889	3.620	-0.090	2.831	39.900
304	266	13.300	43.635	127.780	127.864	2.607	13.430	2.039	46.300
305	267	13.350	43.799	127.740	127.714	2.456	-4.240	1.923	50.700
306	268	13.400	43.963	140.090	140.108	2.592	2.960	1.850	44.500
307	269	13.450	44.127	37.090	37.161	3.691	11.340	9.933	40.200
308	270	13.500	44.291	89.140	89.180	3.199	6.420	3.587	34.800
309	271	13.550	44.455	90.160	90.145	1.895	-2.430	2.102	30.100
310	272	13.600	44.619	101.060	101.077	1.824	2.790	1.805	29.000
311	273	13.650	44.783	391.250	391.266	1.704	2.600	0.436	28.300
312	274	13.700	44.947	439.560	439.563	4.324	0.470	0.984	25.300
313	275	13.750	45.111	417.390	417.383	10.242	-1.170	2.454	25.000
314	276	13.800	45.275	132.680	132.722	10.400	6.780	7.836	39.200
315	277	13.850	45.439	94.770	94.799	9.320	4.710	9.831	38.800
316	278	13.900	45.603	41.380	41.487	2.858	17.110	6.889	54.300
317	279	13.950	45.767	34.420	34.529	1.715	17.400	4.967	65.500
318	280	14.000	45.931	20.280	20.674	1.289	63.090	6.235	72.200
319	281	14.050	46.095	18.740	19.051	1.143	49.850	6.000	56.000
320	282	14.100	46.259	25.460	25.865	1.599	64.910	6.182	59.200
321	283	14.150	46.423	42.410	42.546	1.795	21.750	4.219	37.700
322	284	14.200	46.587	60.800	61.871	2.293	171.590	3.706	37.500
323	285	14.250	46.751	79.650	81.781	2.810	341.410	3.436	34.500
324	286	14.300	46.915	68.450	68.851	2.776	64.270	4.032	31.600
325	287	14.350	47.079	109.070	109.132	3.150	9.860	2.886	29.000
326	288	14.400	47.244	141.830	142.021	3.472	30.660	2.445	28.000
327	289	14.450	47.408	85.420	85.424	3.228	0.720	3.779	26.500
328	290	14.500	47.572	103.650	103.675	2.679	4.020	2.584	25.200
329	291	14.550	47.736	124.100	124.130	2.543	4.800	2.049	39.700
330	292	14.600	47.900	81.790	81.907	2.266	18.760	2.767	42.100
331	293	14.650	48.064	32.550	32.578	2.026	4.430	6.219	55.300
332	294	14.700	48.228	52.250	52.257	1.152	1.070	2.205	51.600
333	295	14.750	48.392	81.240	81.321	1.517	13.050	1.865	59.200
334	296	14.800	48.556	127.140	127.170	2.259	4.850	1.776	60.000
335	297	14.850	48.720	105.850	105.833	2.709	-2.700	2.560	71.200
336	298	14.900	48.884	65.620	65.612	3.176	-1.290	4.841	57.200
337	299	14.950	49.048	53.840	53.848	2.444	1.240	4.539	55.600
338	300	15.000	49.212	45.810	45.826	2.314	2.580	5.050	53.000
339	301	15.050	49.376	38.860	38.867	1.961	1.070	5.045	35.100
340	302	15.100	49.540	42.480	42.466	1.986	-2.200	4.677	27.600
341	303	15.150	49.704	52.320	52.323	1.908	0.560	3.647	30.200
342	304	15.200	49.868	40.560	40.569	1.926	1.500	4.747	25.500
343	305	15.250	50.032	36.150	36.171	1.798	3.310	4.971	26.800
344	306	15.300	50.196	31.590	31.621	1.355	4.970	4.285	27.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	61.380	61.410	1.774	4.800	2.889	30.000
346	308	15.400	50.524	75.350	75.609	1.728	41.420	2.285	31.700
347	309	15.450	50.688	26.530	26.542	2.142	1.860	8.070	31.000
348	310	15.500	50.852	31.170	31.184	1.452	2.230	4.656	24.500
349	311	15.550	51.016	23.400	23.432	1.245	5.180	5.313	32.000
350	312	15.600	51.180	40.680	40.728	1.160	7.670	2.848	29.300
351	313	15.650	51.345	63.300	63.338	1.806	6.110	2.851	23.600
352	314	15.700	51.509	59.780	59.854	1.450	11.900	2.423	31.600
353	315	15.750	51.673	103.910	103.928	1.977	2.870	1.902	41.700
354	316	15.800	51.837	100.520	100.504	2.345	-2.610	2.333	50.200
355	317	15.850	52.001	71.820	71.886	2.638	10.650	3.670	63.500
356	318	15.900	52.165	51.290	51.303	2.102	2.030	4.097	76.600
357	319	15.950	52.329	23.550	23.550	1.505	0.070	6.391	83.700
358	320	16.000	52.493	16.530	16.532	0.818	0.390	4.948	84.000
359	321	16.050	52.657	17.150	17.172	0.839	3.520	4.886	77.500
360	322	16.100	52.821	35.060	35.107	1.351	7.540	3.848	77.800
361	323	16.150	52.985	112.810	112.873	2.181	10.150	1.932	76.600
362	324	16.200	53.149	137.480	137.492	2.605	1.990	1.895	75.400
363	325	16.250	53.313	104.710	104.710	2.663	0.040	2.543	68.800
364	326	16.300	53.477	76.070	76.047	2.397	-3.700	3.152	54.600
365	327	16.350	53.641	78.210	78.185	2.239	-3.980	2.864	60.500
366	328	16.400	53.805	55.550	55.575	2.059	4.070	3.705	74.100
367	329	16.450	53.969	28.050	28.059	2.161	1.510	7.702	59.900
368	330	16.500	54.133	47.120	47.151	1.566	4.900	3.321	60.100
369	331	16.550	54.297	60.350	60.397	1.443	7.580	2.389	66.100
370	332	16.600	54.461	52.020	52.056	1.711	5.810	3.287	56.800
371	333	16.650	54.625	60.700	60.730	2.300	4.750	3.787	46.900
372	334	16.700	54.789	50.450	50.459	2.227	1.380	4.414	40.200
373	335	16.750	54.953	46.760	46.775	2.203	2.440	4.710	30.600
374	336	16.800	55.117	52.850	52.932	2.312	13.150	4.368	27.600
375	337	16.850	55.281	45.760	45.778	2.619	2.830	5.721	23.500
376	338	16.900	55.446	57.340	57.346	2.375	0.960	4.142	24.100
377	339	16.950	55.610	77.010	77.064	2.609	8.590	3.386	21.100
378	340	17.000	55.774	92.390	92.418	3.159	4.440	3.418	20.600
379	341	17.050	55.938	91.540	91.554	3.639	2.190	3.975	23.200
380	342	17.100	56.102	64.460	64.510	3.470	7.990	5.379	25.500
381	343	17.150	56.266	43.820	43.876	2.962	8.980	6.751	23.800
382	344	17.200	56.430	95.960	96.081	2.969	19.410	3.090	30.100
383	345	17.250	56.594	52.770	52.835	2.648	10.370	5.012	29.100
384	346	17.300	56.758	51.400	51.443	2.067	6.920	4.018	36.400
385	347	17.350	56.922	120.760	120.795	3.010	5.550	2.492	55.000
386	348	17.400	57.086	107.540	107.556	2.896	2.490	2.693	70.100
387	349	17.450	57.250	40.520	40.564	2.414	7.070	5.951	72.700
388	350	17.500	57.414	22.510	22.557	1.268	7.590	5.621	76.000
389	351	17.550	57.578	35.980	36.098	1.197	18.850	3.316	81.000
390	352	17.600	57.742	48.780	48.827	1.067	7.600	2.185	79.500
391	353	17.650	57.906	35.380	35.379	1.075	-0.160	3.039	71.400
392	354	17.700	58.070	27.320	27.311	0.980	-1.490	3.588	65.600
393	355	17.750	58.234	21.750	21.736	0.822	-2.210	3.782	53.700
394	356	17.800	58.398	17.800	17.781	0.818	-3.040	4.600	58.000
395	357	17.850	58.562	25.660	25.662	0.980	0.260	3.819	56.000
396	358	17.900	58.726	30.040	30.048	1.228	1.290	4.087	53.600
397	359	17.950	58.890	20.320	20.335	1.471	2.400	7.234	57.300
398	360	18.000	59.054	34.330	34.353	1.764	3.700	5.135	53.300
399	361	18.050	59.218	79.790	79.810	2.199	3.170	2.755	35.700
400	362	18.100	59.382	43.300	43.313	2.671	2.060	6.167	38.900
401	363	18.150	59.547	48.560	48.610	2.333	8.050	4.799	30.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	42.680	42.699	1.842	2.980	4.314	35.700
403	365	18.250	59.875	38.180	38.190	1.855	1.610	4.857	33.300
404	366	18.300	60.039	35.760	35.799	1.603	6.270	4.478	26.700
405	367	18.350	60.203	34.360	34.375	1.829	2.470	5.321	28.200
406	368	18.400	60.367	68.310	68.325	1.834	2.350	2.684	18.300
407	369	18.450	60.531	44.360	44.419	1.687	9.440	3.798	30.200
408	370	18.500	60.695	55.500	55.534	1.830	5.440	3.295	29.800
409	371	18.550	60.859	96.500	96.524	2.165	3.900	2.243	30.600
410	372	18.600	61.023	46.250	46.316	1.827	10.640	3.945	27.300
411	373	18.650	61.187	48.840	48.865	1.866	3.970	3.819	32.800
412	374	18.700	61.351	74.080	74.109	1.784	4.580	2.407	35.800
413	375	18.750	61.515	68.810	68.809	2.516	-0.210	3.657	47.900
414	376	18.800	61.679	81.920	81.966	2.105	7.360	2.568	53.300
415	377	18.850	61.843	50.070	50.089	1.748	3.040	3.490	52.300
416	378	18.900	62.007	71.750	71.782	1.372	5.120	1.911	54.000
417	379	18.950	62.171	76.390	76.416	1.521	4.150	1.990	33.300
418	380	19.000	62.335	61.260	61.291	1.431	4.990	2.335	33.400
419	381	19.050	62.499	40.980	40.993	1.449	2.020	3.535	31.900
420	382	19.100	62.663	40.720	40.774	1.286	8.690	3.154	34.100
421	383	19.150	62.827	56.650	56.690	1.877	6.460	3.311	34.800
422	384	19.200	62.991	43.820	43.836	2.128	2.580	4.854	30.600
423	385	19.250	63.155	35.280	35.301	1.942	3.340	5.501	39.500
424	386	19.300	63.319	104.950	105.042	2.233	14.660	2.126	43.000
425	387	19.350	63.483	150.260	150.302	1.759	6.760	1.170	46.900
426	388	19.400	63.648	162.720	162.731	1.805	1.770	1.109	39.900
427	389	19.450	63.812	153.960	153.962	1.730	0.290	1.124	54.800
428	390	19.500	63.976	57.440	57.433	2.515	-1.170	4.379	61.200
429	391	19.550	64.140	59.740	59.742	2.403	0.360	4.022	62.500
430	392	19.600	64.304	56.300	56.411	2.099	17.860	3.721	55.100
431	393	19.650	64.468	59.790	59.808	1.647	2.920	2.754	54.600
432	394	19.700	64.632	54.400	54.418	1.347	2.960	2.475	47.100
433	395	19.750	64.796	48.130	48.146	1.833	2.550	3.807	42.700
434	396	19.800	64.960	60.180	60.209	2.286	4.570	3.797	40.900
435	397	19.850	65.124	31.510	31.534	2.201	3.880	6.980	34.500
436	398	19.900	65.288	47.580	47.612	1.760	5.200	3.697	25.900
437	399	19.950	65.452	36.450	36.482	1.780	5.160	4.879	26.800
438	400	20.000	65.616	61.130	61.161	1.469	4.920	2.402	14.700
439	401	20.050	65.780	52.330	52.403	1.196	11.700	2.282	13.300
440	402	20.100	65.944	54.170	54.179	1.258	1.390	2.322	14.300
441	403	20.150	66.108	73.770	73.784	1.353	2.170	1.834	13.100
442	404	20.200	66.272	97.670	97.735	2.932	10.390	3.000	9.900
443	405	20.250	66.436	135.710	135.801	3.248	14.570	2.392	10.800
444	406	20.300	66.600	108.110	108.145	3.644	5.610	3.370	13.600
445	407	20.350	66.764	139.960	139.985	3.401	4.050	2.430	14.400
446	408	20.400	66.928	92.930	92.952	4.127	3.450	4.440	15.700
447	409	20.450	67.092	95.970	96.434	3.583	74.250	3.716	21.100
448	410	20.500	67.256	75.380	75.792	3.483	66.070	4.595	21.700
449	411	20.550	67.420	71.030	71.808	3.190	124.640	4.442	37.200
450	412	20.600	67.584	75.320	75.697	2.923	60.350	3.861	42.400
451	413	20.650	67.749	58.220	58.272	2.509	8.380	4.306	47.500
452	414	20.700	67.913	36.960	37.069	1.992	17.450	5.374	47.500
453	415	20.750	68.077	39.040	39.434	1.696	63.150	4.301	45.300
454	416	20.800	68.241	37.950	38.235	1.843	45.660	4.820	34.900
455	417	20.850	68.405	64.660	65.281	2.589	99.500	3.966	37.600
456	418	20.900	68.569	162.970	163.015	3.276	7.140	2.010	30.800
457	419	20.950	68.733	136.090	136.239	3.754	23.820	2.755	42.000
458	420	21.000	68.897	113.240	113.248	3.883	1.300	3.429	43.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	87.530	87.598	2.656	10.880	3.032	53.300
460	422	21.100	69.225	40.800	40.837	2.068	5.920	5.064	44.200
461	423	21.150	69.389	29.190	29.272	1.437	13.080	4.909	39.400
462	424	21.200	69.553	26.170	26.840	1.292	107.250	4.814	40.900
463	425	21.250	69.717	49.060	49.370	1.497	49.600	3.032	32.700
464	426	21.300	69.881	88.920	88.957	2.231	5.970	2.508	0.000
465	427	21.350	70.045	80.730	80.816	3.182	13.800	3.937	0.000
466	428	21.400	70.209	75.800	76.278	3.149	76.620	4.128	0.000
467	429	21.450	70.373	67.480	67.550	3.262	11.170	4.829	0.000
468	430	21.500	70.537	62.960	63.032	2.995	11.540	4.752	0.000
469	431	21.550	70.701	59.570	59.974	2.486	64.670	4.145	0.000
470	432	21.600	70.865	91.320	91.723	2.258	64.610	2.462	0.000
471	433	21.650	71.029	69.220	69.383	2.414	26.120	3.479	0.000
472	434	21.700	71.193	52.170	52.199	2.361	4.700	4.523	0.000
473	435	21.750	71.357	82.150	82.218	2.766	10.820	3.364	0.000
474	436	21.800	71.521	107.830	107.861	2.355	4.920	2.183	0.000
475	437	21.850	71.685	44.050	44.103	2.515	8.460	5.703	0.000
476	438	21.900	71.850	45.190	45.305	2.531	18.440	5.587	0.000
477	439	21.950	72.014	70.580	70.677	2.315	15.590	3.275	0.000
478	440	22.000	72.178	58.260	58.340	2.339	12.780	4.009	0.000
479	441	22.050	72.342	138.770	138.926	0.000	25.030	0.000	0.000
480	442	22.100	72.506	200.520	200.570	0.000	8.080	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272402				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-11				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-18-2015				
14		CPT Time:			11:41				
15		CPT File:			15-53039_GP1D-11.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722159.064				
31		Northing / Lat:			4294212.723				
32		Elevation:			159.310				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	5.380	5.378	0.075	-0.380	1.395	22.500
40	2	0.100	0.328	32.990	32.992	0.337	0.260	1.021	19.300
41	3	0.150	0.492	81.900	81.896	0.442	-0.650	0.540	31.400
42	4	0.200	0.656	50.830	50.833	0.415	0.530	0.816	36.100
43	5	0.250	0.820	64.170	64.178	0.457	1.260	0.712	48.900
44	6	0.300	0.984	75.050	75.053	0.542	0.450	0.722	45.400
45	7	0.350	1.148	56.490	56.572	0.644	13.120	1.138	68.500
46	8	0.400	1.312	80.010	80.113	0.983	16.490	1.227	82.800
47	9	0.450	1.476	95.750	95.763	1.028	2.100	1.073	92.500
48	10	0.500	1.640	107.020	106.985	1.305	-5.610	1.220	87.000
49	11	0.550	1.804	112.600	112.543	1.393	-9.100	1.238	99.500
50	12	0.600	1.968	112.730	112.660	1.418	-11.240	1.259	93.300
51	13	0.650	2.133	109.090	109.047	1.421	-6.880	1.303	99.200
52	14	0.700	2.297	84.890	84.818	1.362	-11.540	1.606	91.000
53	15	0.750	2.461	80.810	80.733	1.230	-12.270	1.524	98.800
54	16	0.800	2.625	94.380	94.298	1.207	-13.140	1.280	92.000
55	17	0.850	2.789	118.430	118.398	1.268	-5.090	1.071	88.400
56	18	0.900	2.953	121.270	121.232	1.407	-6.070	1.161	97.200
57	19	0.950	3.117	106.420	106.380	1.498	-6.350	1.408	94.500
58	20	1.000	3.281	82.660	82.630	1.418	-4.860	1.716	85.300
59	21	1.050	3.445	60.760	60.716	1.262	-7.080	2.079	82.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	47.650	47.622	1.019	-4.530	2.140	73.500
61	23	1.150	3.773	37.320	37.310	0.655	-1.620	1.756	76.100
62	24	1.200	3.937	29.430	29.430	0.527	-0.030	1.791	67.000
63	25	1.250	4.101	50.280	50.286	0.608	0.980	1.209	63.600
64	26	1.300	4.265	16.830	16.913	0.480	13.330	2.838	48.500
65	27	1.350	4.429	59.970	59.970	0.777	-0.010	1.296	39.900
66	28	1.400	4.593	103.610	103.614	0.680	0.570	0.656	41.100
67	29	1.450	4.757	47.460	47.460	0.754	-0.040	1.589	38.600
68	30	1.500	4.921	74.220	74.240	0.536	3.270	0.722	31.500
69	31	1.550	5.085	81.520	81.531	0.841	1.700	1.032	27.500
70	32	1.600	5.249	97.360	97.359	1.071	-0.130	1.100	31.400
71	33	1.650	5.413	37.410	37.370	1.144	-6.380	3.061	40.100
72	34	1.700	5.577	35.700	35.839	0.727	22.270	2.029	41.000
73	35	1.750	5.741	41.430	41.537	0.683	17.110	1.644	42.500
74	36	1.800	5.905	56.160	56.169	0.734	1.460	1.307	55.100
75	37	1.850	6.069	15.730	15.742	0.649	1.910	4.123	56.500
76	38	1.900	6.234	14.470	14.521	0.526	8.170	3.622	58.200
77	39	1.950	6.398	25.980	25.978	0.571	-0.330	2.198	59.900
78	40	2.000	6.562	34.450	34.476	0.755	4.170	2.190	46.300
79	41	2.050	6.726	30.430	30.575	0.974	23.280	3.186	37.800
80	42	2.100	6.890	31.000	30.991	1.038	-1.370	3.349	29.200
81	43	2.150	7.054	39.070	39.099	1.330	4.660	3.402	20.800
82	44	2.200	7.218	73.320	73.339	1.222	2.970	1.666	23.500
83	45	2.250	7.382	86.690	87.259	1.922	91.180	2.203	29.000
84	46	2.300	7.546	165.580	165.610	2.087	4.860	1.260	17.000
85	47	2.350	7.710	82.930	82.955	1.824	3.940	2.199	19.700
86	48	2.400	7.874	34.180	34.169	1.507	-1.790	4.410	25.200
87	49	2.450	8.038	87.410	87.412	1.682	0.360	1.924	29.200
88	50	2.500	8.202	118.310	118.381	1.571	11.450	1.327	17.300
89	51	2.550	8.366	49.840	49.967	1.396	20.280	2.794	32.600
90	52	2.600	8.530	40.350	40.396	1.397	7.420	3.458	26.800
91	53	2.650	8.694	31.400	31.443	1.060	6.920	3.371	29.600
92	54	2.700	8.858	47.910	47.921	0.944	1.780	1.970	26.800
93	55	2.750	9.022	34.340	34.400	0.982	9.570	2.855	19.800
94	56	2.800	9.186	40.280	40.289	1.038	1.460	2.576	19.600
95	57	2.850	9.350	17.910	17.873	0.927	-5.970	5.187	22.100
96	58	2.900	9.514	19.140	19.153	0.648	2.110	3.383	21.100
97	59	2.950	9.678	34.090	34.096	0.570	1.040	1.672	22.700
98	60	3.000	9.842	50.580	50.582	0.617	0.300	1.220	21.500
99	61	3.050	10.006	18.150	18.152	0.641	0.290	3.531	13.900
100	62	3.100	10.170	15.790	15.874	0.668	13.480	4.208	21.900
101	63	3.150	10.335	22.010	22.054	1.073	7.070	4.865	14.200
102	64	3.200	10.499	61.840	61.910	1.789	11.180	2.890	28.400
103	65	3.250	10.663	57.900	57.998	2.299	15.740	3.964	25.500
104	66	3.300	10.827	30.850	30.959	3.606	17.400	11.648	36.400
105	67	3.350	10.991	76.210	76.216	2.277	0.960	2.988	35.800
106	68	3.400	11.155	30.840	30.891	2.269	8.130	7.345	48.700
107	69	3.450	11.319	65.410	65.496	2.515	13.810	3.840	52.200
108	70	3.500	11.483	62.670	62.662	1.545	-1.280	2.466	57.200
109	71	3.550	11.647	23.220	23.260	0.938	6.450	4.033	48.400
110	72	3.600	11.811	53.110	53.176	0.913	10.650	1.717	44.100
111	73	3.650	11.975	57.280	57.287	1.189	1.090	2.076	42.500
112	74	3.700	12.139	74.310	74.343	1.849	5.310	2.487	40.000
113	75	3.750	12.303	57.220	57.280	2.005	9.670	3.500	28.800
114	76	3.800	12.467	22.970	23.011	1.452	6.490	6.310	32.200
115	77	3.850	12.631	43.840	43.870	1.069	4.820	2.437	19.900
116	78	3.900	12.795	47.060	47.044	1.022	-2.640	2.172	18.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	34.770	34.773	0.921	0.530	2.649	16.200
118	80	4.000	13.123	54.170	54.192	1.000	3.470	1.845	22.400
119	81	4.050	13.287	52.240	52.294	0.801	8.580	1.532	20.200
120	82	4.100	13.451	41.350	41.379	0.868	4.710	2.098	20.600
121	83	4.150	13.615	33.590	33.601	1.057	1.760	3.146	14.200
122	84	4.200	13.779	76.280	76.265	1.391	-2.370	1.824	15.800
123	85	4.250	13.943	61.570	61.563	1.070	-1.200	1.738	16.600
124	86	4.300	14.107	90.900	90.901	1.023	0.190	1.125	13.700
125	87	4.350	14.271	46.270	46.271	0.993	0.210	2.146	18.700
126	88	4.400	14.436	32.470	32.465	0.886	-0.760	2.729	12.000
127	89	4.450	14.600	29.910	29.911	0.643	0.090	2.150	9.500
128	90	4.500	14.764	38.020	38.018	0.724	-0.270	1.904	11.700
129	91	4.550	14.928	43.970	43.973	0.937	0.410	2.131	13.700
130	92	4.600	15.092	54.950	54.950	1.088	-0.010	1.980	15.300
131	93	4.650	15.256	20.190	20.235	0.845	7.230	4.176	14.100
132	94	4.700	15.420	23.640	23.631	0.534	-1.420	2.260	21.200
133	95	4.750	15.584	31.220	31.230	0.304	1.620	0.973	14.700
134	96	4.800	15.748	39.450	39.456	0.753	0.920	1.908	19.400
135	97	4.850	15.912	76.910	76.911	0.962	0.150	1.251	17.000
136	98	4.900	16.076	30.720	30.707	1.015	-2.100	3.305	16.200
137	99	4.950	16.240	31.120	31.182	1.280	9.890	4.105	22.600
138	100	5.000	16.404	61.650	61.658	1.080	1.310	1.752	18.400
139	101	5.050	16.568	40.960	41.004	1.106	6.980	2.697	11.400
140	102	5.100	16.732	75.860	75.876	1.587	2.570	2.092	13.300
141	103	5.150	16.896	59.560	59.583	1.305	3.650	2.190	15.400
142	104	5.200	17.060	69.450	69.473	1.405	3.750	2.022	17.500
143	105	5.250	17.224	55.270	55.305	1.077	5.570	1.947	17.100
144	106	5.300	17.388	49.150	49.173	0.821	3.700	1.670	13.900
145	107	5.350	17.552	36.580	36.587	0.770	1.170	2.105	9.700
146	108	5.400	17.716	48.080	48.092	0.657	1.980	1.366	19.600
147	109	5.450	17.880	68.030	68.045	0.898	2.340	1.320	14.600
148	110	5.500	18.044	42.200	42.260	0.714	9.560	1.690	19.800
149	111	5.550	18.208	27.350	27.390	0.690	6.420	2.519	13.200
150	112	5.600	18.372	58.910	58.910	0.638	0.040	1.083	19.500
151	113	5.650	18.537	88.640	88.652	0.796	1.890	0.898	15.900
152	114	5.700	18.701	82.220	82.272	0.780	8.330	0.948	21.600
153	115	5.750	18.865	93.380	93.395	0.725	2.330	0.776	21.600
154	116	5.800	19.029	69.500	69.505	0.733	0.740	1.055	12.800
155	117	5.850	19.193	62.670	62.681	0.873	1.840	1.393	14.900
156	118	5.900	19.357	33.790	33.790	0.762	0.030	2.255	20.500
157	119	5.950	19.521	33.370	33.376	0.550	1.010	1.648	14.100
158	120	6.000	19.685	20.100	20.104	0.492	0.590	2.447	21.200
159	121	6.050	19.849	21.250	21.251	0.415	0.090	1.953	34.500
160	122	6.100	20.013	20.380	20.397	0.310	2.730	1.520	26.100
161	123	6.150	20.177	13.880	13.889	0.531	1.410	3.823	37.100
162	124	6.200	20.341	36.920	36.932	0.747	1.890	2.023	36.300
163	125	6.250	20.505	77.080	77.109	1.165	4.690	1.511	37.000
164	126	6.300	20.669	110.910	110.916	1.827	1.040	1.647	35.900
165	127	6.350	20.833	110.320	110.365	2.121	7.150	1.922	32.200
166	128	6.400	20.997	91.770	91.828	2.299	9.270	2.504	37.200
167	129	6.450	21.161	162.050	162.060	3.119	1.640	1.925	39.300
168	130	6.500	21.325	106.840	106.832	2.348	-1.240	2.198	31.300
169	131	6.550	21.489	100.940	100.973	2.025	5.310	2.005	30.200
170	132	6.600	21.653	78.750	78.749	1.662	-0.240	2.111	23.100
171	133	6.650	21.817	51.920	51.921	1.213	0.090	2.336	34.200
172	134	6.700	21.981	85.380	85.388	1.356	1.360	1.588	37.500
173	135	6.750	22.145	69.440	69.471	1.311	4.930	1.887	31.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	45.640	45.650	1.339	1.620	2.933	36.700
175	137	6.850	22.473	51.840	51.861	1.119	3.320	2.158	27.600
176	138	6.900	22.638	59.550	59.577	1.046	4.330	1.756	34.900
177	139	6.950	22.802	32.600	32.605	0.868	0.790	2.662	39.000
178	140	7.000	22.966	32.440	32.485	1.101	7.180	3.389	39.800
179	141	7.050	23.130	38.400	38.461	4.250	9.760	11.050	48.100
180	142	7.100	23.294	44.070	44.105	3.691	5.670	8.369	56.500
181	143	7.150	23.458	34.160	34.205	3.099	7.190	9.060	72.300
182	144	7.200	23.622	50.900	50.914	3.908	2.180	7.676	76.500
183	145	7.250	23.786	36.910	36.918	1.174	1.360	3.180	70.700
184	146	7.300	23.950	25.300	25.300	0.927	0.010	3.664	65.300
185	147	7.350	24.114	26.500	26.501	0.785	0.160	2.962	54.100
186	148	7.400	24.278	33.060	33.064	0.696	0.620	2.105	43.500
187	149	7.450	24.442	35.510	35.514	1.051	0.590	2.959	33.500
188	150	7.500	24.606	83.450	83.479	1.317	4.620	1.578	35.500
189	151	7.550	24.770	52.420	52.423	1.681	0.510	3.207	33.800
190	152	7.600	24.934	46.620	46.659	1.467	6.270	3.144	34.600
191	153	7.650	25.098	42.540	42.614	1.358	11.910	3.187	26.000
192	154	7.700	25.262	61.830	61.854	1.471	3.900	2.378	19.600
193	155	7.750	25.426	32.830	32.842	1.203	1.890	3.663	21.900
194	156	7.800	25.590	23.940	23.966	1.106	4.140	4.615	25.500
195	157	7.850	25.754	40.900	40.931	1.136	4.890	2.775	12.700
196	158	7.900	25.918	52.120	52.173	1.342	8.430	2.572	21.300
197	159	7.950	26.082	88.790	88.812	1.401	3.470	1.577	19.000
198	160	8.000	26.246	71.810	71.825	1.492	2.430	2.077	23.600
199	161	8.050	26.410	75.090	75.141	1.434	8.210	1.908	26.300
200	162	8.100	26.574	69.310	69.330	1.283	3.210	1.851	20.700
201	163	8.150	26.739	50.890	50.910	1.153	3.170	2.265	22.100
202	164	8.200	26.903	49.270	49.278	1.317	1.350	2.673	14.700
203	165	8.250	27.067	44.240	44.233	1.316	-1.060	2.975	19.400
204	166	8.300	27.231	42.640	42.645	1.288	0.750	3.020	15.400
205	167	8.350	27.395	46.390	46.398	1.103	1.240	2.377	16.000
206	168	8.400	27.559	57.800	57.814	1.108	2.190	1.917	17.000
207	169	8.450	27.723	65.920	65.919	1.192	-0.110	1.808	19.000
208	170	8.500	27.887	60.490	60.484	0.997	-0.980	1.648	17.800
209	171	8.550	28.051	78.640	78.647	0.900	1.050	1.144	17.700
210	172	8.600	28.215	96.950	96.958	0.939	1.230	0.968	16.700
211	173	8.650	28.379	58.200	58.207	1.019	1.170	1.751	18.900
212	174	8.700	28.543	40.160	40.175	1.031	2.380	2.566	18.000
213	175	8.750	28.707	47.680	47.693	1.110	2.130	2.327	24.000
214	176	8.800	28.871	84.490	84.491	1.104	0.190	1.307	21.300
215	177	8.850	29.035	96.150	96.176	1.579	4.240	1.642	25.600
216	178	8.900	29.199	129.800	129.880	2.048	12.760	1.577	24.400
217	179	8.950	29.363	141.040	141.068	2.654	4.420	1.881	23.900
218	180	9.000	29.527	122.080	122.086	2.722	0.930	2.230	23.000
219	181	9.050	29.691	87.550	87.601	2.312	8.090	2.639	27.500
220	182	9.100	29.855	81.560	81.598	1.803	6.140	2.210	33.000
221	183	9.150	30.019	73.170	73.197	1.567	4.280	2.141	28.600
222	184	9.200	30.183	54.630	54.682	1.345	8.360	2.460	32.900
223	185	9.250	30.347	61.970	61.988	1.069	2.840	1.725	36.100
224	186	9.300	30.511	91.630	91.694	1.125	10.310	1.227	40.300
225	187	9.350	30.675	33.090	33.133	1.042	6.950	3.145	48.800
226	188	9.400	30.840	29.890	29.913	0.817	3.750	2.731	56.200
227	189	9.450	31.004	29.920	29.940	0.815	3.240	2.722	62.100
228	190	9.500	31.168	27.290	27.307	0.768	2.680	2.812	66.700
229	191	9.550	31.332	59.050	59.080	0.929	4.860	1.572	63.800
230	192	9.600	31.496	104.890	104.936	1.512	7.430	1.441	68.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	66.540	66.618	1.504	12.430	2.258	80.700
232	194	9.700	31.824	61.040	61.052	1.533	1.950	2.511	76.200
233	195	9.750	31.988	55.720	55.742	1.705	3.460	3.059	74.700
234	196	9.800	32.152	69.050	69.150	2.571	15.950	3.718	73.800
235	197	9.850	32.316	301.520	301.606	6.465	13.700	2.144	55.500
236	198	9.900	32.480	359.770	359.779	5.521	1.470	1.535	52.400
237	199	9.950	32.644	92.010	92.006	6.215	-0.590	6.755	41.300
238	200	10.000	32.808	102.800	102.797	2.469	-0.490	2.402	45.200
239	201	10.050	32.972	102.220	102.225	3.115	0.870	3.047	30.800
240	202	10.100	33.136	108.010	108.189	3.197	28.690	2.955	24.100
241	203	10.150	33.300	85.440	85.526	2.338	13.760	2.734	25.300
242	204	10.200	33.464	93.040	93.169	2.239	20.600	2.403	19.900
243	205	10.250	33.628	110.810	110.945	1.518	21.610	1.368	21.300
244	206	10.300	33.792	118.180	118.289	3.784	17.410	3.199	17.200
245	207	10.350	33.956	96.550	96.631	1.969	13.000	2.038	15.600
246	208	10.400	34.120	295.500	295.505	1.809	0.880	0.612	21.200
247	209	10.450	34.284	186.430	186.428	3.266	-0.310	1.752	19.600
248	210	10.500	34.448	177.780	177.790	2.805	1.630	1.578	24.300
249	211	10.550	34.612	161.980	161.993	2.458	2.060	1.517	18.800
250	212	10.600	34.776	126.960	127.029	2.550	11.020	2.007	16.900
251	213	10.650	34.941	118.080	118.117	2.127	6.000	1.801	15.800
252	214	10.700	35.105	84.180	84.223	1.578	6.830	1.874	16.400
253	215	10.750	35.269	108.090	108.091	1.864	0.140	1.724	17.200
254	216	10.800	35.433	76.070	76.103	1.320	5.340	1.734	17.600
255	217	10.850	35.597	62.600	62.674	0.921	11.810	1.470	12.700
256	218	10.900	35.761	64.350	64.404	0.824	8.630	1.279	17.000
257	219	10.950	35.925	52.260	52.330	1.038	11.210	1.984	19.200
258	220	11.000	36.089	70.920	70.974	1.401	8.690	1.974	20.500
259	221	11.050	36.253	57.300	57.323	1.300	3.680	2.268	19.900
260	222	11.100	36.417	58.550	58.580	1.200	4.880	2.048	21.400
261	223	11.150	36.581	55.670	55.679	1.101	1.380	1.977	19.000
262	224	11.200	36.745	61.300	61.372	1.362	11.510	2.219	23.300
263	225	11.250	36.909	81.510	81.517	1.232	1.110	1.511	18.200
264	226	11.300	37.073	147.440	147.503	1.408	10.170	0.955	24.000
265	227	11.350	37.237	119.220	119.346	1.386	20.240	1.161	19.800
266	228	11.400	37.401	79.340	79.407	1.750	10.750	2.204	17.800
267	229	11.450	37.565	70.410	70.481	1.167	11.430	1.656	19.100
268	230	11.500	37.729	47.830	48.087	0.957	41.110	1.990	18.400
269	231	11.550	37.893	81.250	81.321	0.946	11.430	1.163	17.100
270	232	11.600	38.057	63.190	63.230	1.255	6.460	1.985	17.700
271	233	11.650	38.221	172.220	172.273	1.456	8.490	0.845	23.200
272	234	11.700	38.385	150.150	150.155	3.214	0.870	2.140	21.700
273	235	11.750	38.549	139.130	139.133	3.184	0.500	2.288	22.300
274	236	11.800	38.713	217.630	217.628	2.746	-0.310	1.262	24.800
275	237	11.850	38.877	154.060	154.068	2.891	1.260	1.876	27.500
276	238	11.900	39.042	115.730	115.859	2.369	20.650	2.045	29.500
277	239	11.950	39.206	119.270	119.337	2.492	10.800	2.088	38.900
278	240	12.000	39.370	89.530	89.579	2.123	7.800	2.370	31.000
279	241	12.050	39.534	93.530	93.599	1.713	11.080	1.830	30.000
280	242	12.100	39.698	110.840	110.985	1.441	23.240	1.298	19.400
281	243	12.150	39.862	103.980	104.090	1.477	17.660	1.419	21.200
282	244	12.200	40.026	93.200	93.310	1.217	17.680	1.304	13.400
283	245	12.250	40.190	108.060	108.156	1.524	15.410	1.409	22.900
284	246	12.300	40.354	122.420	122.486	1.503	10.540	1.227	23.000
285	247	12.350	40.518	92.100	92.209	2.064	17.430	2.238	28.000
286	248	12.400	40.682	90.250	90.437	1.963	30.030	2.171	38.300
287	249	12.450	40.846	94.400	94.925	1.396	84.170	1.471	22.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	58.910	59.050	1.524	22.430	2.581	33.800
289	251	12.550	41.174	117.070	117.168	1.319	15.750	1.126	41.400
290	252	12.600	41.338	80.580	80.671	1.487	14.590	1.843	35.400
291	253	12.650	41.502	86.750	86.795	1.550	7.200	1.786	51.700
292	254	12.700	41.666	93.540	93.569	1.212	4.630	1.295	56.300
293	255	12.750	41.830	51.700	51.766	0.903	10.640	1.744	77.500
294	256	12.800	41.994	64.890	64.954	0.814	10.260	1.253	79.700
295	257	12.850	42.158	92.980	93.044	0.807	10.330	0.867	78.100
296	258	12.900	42.322	111.490	111.587	1.037	15.460	0.929	87.900
297	259	12.950	42.486	133.430	133.521	1.164	14.550	0.872	81.100
298	260	13.000	42.650	129.200	129.254	1.466	8.680	1.134	90.500
299	261	13.050	42.814	117.160	117.201	1.539	6.630	1.313	95.300
300	262	13.100	42.978	108.770	108.790	1.645	3.180	1.512	75.400
301	263	13.150	43.143	97.670	97.681	1.554	1.750	1.591	86.800
302	264	13.200	43.307	81.940	81.937	1.384	-0.420	1.689	87.200
303	265	13.250	43.471	63.110	63.097	1.043	-2.050	1.653	79.500
304	266	13.300	43.635	46.600	46.580	1.121	-3.170	2.407	67.000
305	267	13.350	43.799	48.140	48.123	1.404	-2.710	2.918	46.400
306	268	13.400	43.963	56.290	56.279	1.158	-1.690	2.058	34.400
307	269	13.450	44.127	38.930	38.927	1.483	-0.450	3.810	26.500
308	270	13.500	44.291	63.410	63.405	1.567	-0.770	2.471	22.100
309	271	13.550	44.455	43.900	43.886	1.617	-2.260	3.685	25.300
310	272	13.600	44.619	60.320	60.321	2.296	0.090	3.806	20.700
311	273	13.650	44.783	99.640	99.660	2.424	3.130	2.432	24.000
312	274	13.700	44.947	115.710	115.737	2.455	4.310	2.121	26.100
313	275	13.750	45.111	78.930	78.932	2.898	0.310	3.672	23.500
314	276	13.800	45.275	68.490	68.474	2.795	-2.630	4.082	19.800
315	277	13.850	45.439	57.920	57.900	2.566	-3.180	4.432	23.100
316	278	13.900	45.603	43.760	43.783	1.885	3.760	4.305	28.100
317	279	13.950	45.767	61.660	61.839	1.452	28.650	2.348	30.500
318	280	14.000	45.931	73.860	73.880	1.133	3.280	1.534	29.700
319	281	14.050	46.095	50.950	50.945	0.850	-0.760	1.668	56.200
320	282	14.100	46.259	39.360	39.361	0.412	0.110	1.047	47.500
321	283	14.150	46.423	41.540	41.536	0.509	-0.600	1.225	59.400
322	284	14.200	46.587	67.250	67.245	0.655	-0.850	0.974	45.400
323	285	14.250	46.751	54.220	54.225	1.363	0.810	2.514	34.800
324	286	14.300	46.915	29.400	29.410	1.577	1.590	5.362	24.400
325	287	14.350	47.079	22.330	22.339	2.662	1.380	11.917	29.400
326	288	14.400	47.244	215.120	215.129	3.933	1.380	1.828	22.500
327	289	14.450	47.408	89.030	89.030	4.890	0.010	5.493	22.100
328	290	14.500	47.572	86.250	86.302	4.319	8.350	5.005	28.600
329	291	14.550	47.736	35.250	35.255	1.726	0.830	4.896	42.700
330	292	14.600	47.900	23.350	23.417	1.196	10.780	5.107	42.500
331	293	14.650	48.064	25.690	25.755	0.705	10.370	2.737	57.000
332	294	14.700	48.228	22.160	22.185	0.589	4.040	2.655	56.200
333	295	14.750	48.392	18.610	18.619	0.532	1.440	2.857	51.800
334	296	14.800	48.556	16.110	16.135	0.557	4.040	3.452	60.700
335	297	14.850	48.720	22.240	22.296	0.708	9.010	3.175	63.400
336	298	14.900	48.884	35.850	35.931	1.120	13.030	3.117	58.400
337	299	14.950	49.048	45.580	45.613	1.673	5.240	3.668	53.200
338	300	15.000	49.212	66.320	66.354	2.044	5.380	3.080	34.500
339	301	15.050	49.376	72.820	72.896	2.771	12.220	3.801	34.400
340	302	15.100	49.540	76.190	76.236	2.072	7.430	2.718	22.900
341	303	15.150	49.704	209.250	209.421	3.499	27.440	1.671	23.700
342	304	15.200	49.868	103.350	103.351	3.417	0.190	3.306	21.300
343	305	15.250	50.032	46.640	46.675	2.549	5.550	5.461	23.400
344	306	15.300	50.196	59.770	59.785	2.140	2.480	3.579	18.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	69.770	69.790	1.612	3.190	2.310	26.800
346	308	15.400	50.524	81.440	81.543	2.174	16.490	2.666	31.600
347	309	15.450	50.688	79.220	79.370	1.691	24.070	2.131	33.500
348	310	15.500	50.852	24.200	24.265	1.615	10.350	6.656	29.600
349	311	15.550	51.016	41.610	42.004	1.263	63.170	3.007	44.900
350	312	15.600	51.180	48.990	49.171	0.850	29.050	1.729	56.700
351	313	15.650	51.345	56.520	56.564	0.908	7.120	1.605	66.600
352	314	15.700	51.509	53.960	53.995	0.861	5.530	1.595	73.900
353	315	15.750	51.673	46.000	46.036	0.890	5.840	1.933	88.000
354	316	15.800	51.837	50.540	50.590	0.812	8.050	1.605	90.000
355	317	15.850	52.001	50.460	50.496	0.781	5.720	1.547	81.100
356	318	15.900	52.165	42.710	42.739	0.974	4.720	2.279	76.900
357	319	15.950	52.329	39.950	39.974	1.012	3.810	2.532	68.600
358	320	16.000	52.493	35.520	35.567	1.077	7.580	3.028	66.700
359	321	16.050	52.657	66.490	66.595	1.218	16.770	1.829	85.400
360	322	16.100	52.821	89.880	89.925	1.502	7.220	1.670	86.800
361	323	16.150	52.985	96.570	96.596	1.688	4.180	1.747	79.300
362	324	16.200	53.149	88.650	88.652	1.859	0.350	2.097	78.600
363	325	16.250	53.313	58.880	58.880	1.953	-0.020	3.317	65.300
364	326	16.300	53.477	48.780	48.780	1.659	0.020	3.401	63.400
365	327	16.350	53.641	35.900	35.929	1.793	4.630	4.990	69.800
366	328	16.400	53.805	43.670	43.684	1.337	2.260	3.061	53.000
367	329	16.450	53.969	29.390	29.417	1.415	4.380	4.810	52.100
368	330	16.500	54.133	34.230	34.245	1.153	2.440	3.367	64.300
369	331	16.550	54.297	22.400	22.423	1.116	3.700	4.977	54.400
370	332	16.600	54.461	53.230	53.270	0.937	6.480	1.759	51.800
371	333	16.650	54.625	65.740	65.746	1.055	1.020	1.605	39.400
372	334	16.700	54.789	55.690	55.692	1.132	0.250	2.033	32.500
373	335	16.750	54.953	53.200	53.201	0.714	0.150	1.342	25.200
374	336	16.800	55.117	38.210	38.205	0.931	-0.810	2.437	25.100
375	337	16.850	55.281	41.420	41.413	1.022	-1.090	2.468	15.800
376	338	16.900	55.446	54.770	54.785	1.427	2.430	2.605	17.500
377	339	16.950	55.610	86.750	86.767	1.855	2.780	2.138	25.300
378	340	17.000	55.774	87.300	87.415	2.183	18.370	2.497	15.000
379	341	17.050	55.938	55.200	55.264	2.341	10.290	4.236	18.700
380	342	17.100	56.102	69.890	69.958	1.927	10.820	2.755	21.600
381	343	17.150	56.266	69.030	69.084	2.042	8.570	2.956	23.400
382	344	17.200	56.430	69.740	69.781	1.719	6.580	2.463	23.200
383	345	17.250	56.594	55.870	55.892	1.637	3.580	2.929	31.700
384	346	17.300	56.758	50.340	50.331	1.073	-1.450	2.132	34.700
385	347	17.350	56.922	30.500	30.484	0.801	-2.580	2.628	55.100
386	348	17.400	57.086	60.150	60.158	1.536	1.300	2.553	66.600
387	349	17.450	57.250	61.960	61.976	1.789	2.640	2.887	69.000
388	350	17.500	57.414	62.350	62.406	1.963	9.000	3.146	59.400
389	351	17.550	57.578	54.620	54.648	1.553	4.540	2.842	46.000
390	352	17.600	57.742	76.110	76.135	1.756	4.030	2.306	45.800
391	353	17.650	57.906	65.710	65.732	1.940	3.510	2.951	45.400
392	354	17.700	58.070	76.270	76.310	2.660	6.470	3.486	34.600
393	355	17.750	58.234	49.890	49.965	3.126	11.940	6.256	42.700
394	356	17.800	58.398	73.780	73.809	2.479	4.580	3.359	52.200
395	357	17.850	58.562	99.170	99.190	2.014	3.260	2.030	62.900
396	358	17.900	58.726	66.620	66.638	2.205	2.900	3.309	72.100
397	359	17.950	58.890	42.450	42.482	2.109	5.200	4.964	80.900
398	360	18.000	59.054	39.730	39.786	1.311	9.000	3.295	85.100
399	361	18.050	59.218	35.570	35.659	1.173	14.310	3.289	87.000
400	362	18.100	59.382	42.220	42.336	1.215	18.650	2.870	85.900
401	363	18.150	59.547	36.080	36.342	1.447	42.000	3.982	68.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	54.650	55.140	1.646	78.570	2.985	56.200
403	365	18.250	59.875	64.960	65.826	2.551	138.770	3.875	47.300
404	366	18.300	60.039	75.990	76.723	3.369	117.400	4.391	36.100
405	367	18.350	60.203	129.040	129.392	3.456	56.330	2.671	34.500
406	368	18.400	60.367	72.800	73.222	3.791	67.580	5.177	35.300
407	369	18.450	60.531	65.670	65.767	2.853	15.570	4.338	43.800
408	370	18.500	60.695	32.820	32.934	2.340	18.310	7.105	46.900
409	371	18.550	60.859	44.260	44.539	2.002	44.750	4.495	44.900
410	372	18.600	61.023	59.520	59.755	2.082	37.690	3.484	32.900
411	373	18.650	61.187	57.820	57.926	2.208	17.020	3.812	29.700
412	374	18.700	61.351	44.390	44.459	1.931	11.080	4.343	28.700
413	375	18.750	61.515	48.190	48.260	1.550	11.220	3.212	24.500
414	376	18.800	61.679	22.630	22.691	1.426	9.790	6.284	29.000
415	377	18.850	61.843	34.440	34.469	1.295	4.700	3.757	31.600
416	378	18.900	62.007	36.930	36.991	1.567	9.790	4.236	38.200
417	379	18.950	62.171	70.940	70.969	1.513	4.590	2.132	49.000
418	380	19.000	62.335	24.310	24.347	1.173	5.900	4.818	44.200
419	381	19.050	62.499	24.870	24.918	0.791	7.690	3.174	43.900
420	382	19.100	62.663	29.920	29.995	0.896	12.040	2.987	62.800
421	383	19.150	62.827	19.030	19.108	2.220	12.520	11.618	55.000
422	384	19.200	62.991	28.070	28.104	1.742	5.370	6.199	47.600
423	385	19.250	63.155	179.730	179.771	2.194	6.510	1.220	40.800
424	386	19.300	63.319	150.740	150.748	4.418	1.330	2.931	35.400
425	387	19.350	63.483	121.800	121.802	4.457	0.400	3.659	45.800
426	388	19.400	63.648	83.260	83.230	3.197	-4.830	3.841	39.800
427	389	19.450	63.812	73.930	73.906	2.928	-3.870	3.962	40.600
428	390	19.500	63.976	50.130	50.146	2.124	2.520	4.236	46.500
429	391	19.550	64.140	37.940	37.959	1.859	3.060	4.897	46.400
430	392	19.600	64.304	43.300	43.327	2.047	4.300	4.725	42.900
431	393	19.650	64.468	32.260	32.314	2.252	8.640	6.969	37.400
432	394	19.700	64.632	96.040	96.099	2.384	9.390	2.481	31.900
433	395	19.750	64.796	71.170	71.168	3.096	-0.300	4.350	24.600
434	396	19.800	64.960	95.570	95.599	2.278	4.620	2.383	26.700
435	397	19.850	65.124	41.170	41.154	2.273	-2.520	5.523	18.600
436	398	19.900	65.288	61.300	61.327	2.329	4.260	3.798	20.900
437	399	19.950	65.452	60.190	60.252	2.257	10.000	3.746	19.100
438	400	20.000	65.616	74.520	74.549	2.563	4.670	3.438	21.200
439	401	20.050	65.780	67.670	67.848	3.109	28.530	4.582	24.600
440	402	20.100	65.944	126.000	126.203	3.743	32.470	2.966	29.200
441	403	20.150	66.108	151.580	151.846	3.530	42.650	2.325	34.200
442	404	20.200	66.272	81.830	82.020	3.980	30.460	4.852	30.500
443	405	20.250	66.436	73.300	73.443	2.882	22.840	3.924	51.800
444	406	20.300	66.600	35.380	35.462	1.830	13.190	5.160	67.600
445	407	20.350	66.764	33.540	33.931	1.804	62.680	5.317	67.300
446	408	20.400	66.928	39.610	39.986	1.450	60.220	3.626	70.000
447	409	20.450	67.092	41.510	41.674	1.612	26.290	3.868	64.300
448	410	20.500	67.256	33.970	34.071	1.448	16.250	4.250	50.900
449	411	20.550	67.420	60.860	60.935	1.341	12.050	2.201	57.100
450	412	20.600	67.584	48.820	48.847	1.154	4.290	2.362	48.400
451	413	20.650	67.749	17.550	17.573	0.977	3.610	5.560	40.500
452	414	20.700	67.913	21.660	21.676	0.895	2.580	4.129	38.400
453	415	20.750	68.077	46.080	46.100	1.122	3.140	2.434	37.000
454	416	20.800	68.241	64.190	64.210	1.887	3.270	2.939	43.900
455	417	20.850	68.405	91.570	91.618	2.297	7.610	2.507	33.900
456	418	20.900	68.569	41.550	41.615	2.003	10.380	4.813	49.000
457	419	20.950	68.733	19.260	19.345	1.156	13.670	5.976	55.700
458	420	21.000	68.897	21.960	22.075	0.691	18.400	3.130	51.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	12.730	12.798	0.698	10.930	5.454	35.900
460	422	21.100	69.225	34.170	34.216	0.934	7.410	2.730	35.100
461	423	21.150	69.389	31.800	31.846	1.087	7.370	3.413	34.600
462	424	21.200	69.553	36.430	36.496	1.037	10.520	2.841	35.200
463	425	21.250	69.717	41.720	41.811	1.139	14.520	2.724	32.700
464	426	21.300	69.881	37.270	37.329	1.227	9.450	3.287	35.100
465	427	21.350	70.045	32.980	33.068	1.303	14.160	3.940	31.400
466	428	21.400	70.209	51.610	51.661	1.400	8.100	2.710	32.400
467	429	21.450	70.373	94.160	94.205	2.017	7.150	2.141	38.900
468	430	21.500	70.537	96.930	97.005	2.117	11.940	2.182	37.300
469	431	21.550	70.701	58.520	58.589	2.405	11.000	4.105	41.000
470	432	21.600	70.865	63.030	63.131	2.065	16.240	3.271	38.300
471	433	21.650	71.029	29.360	29.435	1.431	12.040	4.862	42.800
472	434	21.700	71.193	26.380	26.699	1.207	51.150	4.521	33.700
473	435	21.750	71.357	38.840	39.415	1.403	92.080	3.560	39.400
474	436	21.800	71.521	48.160	48.480	1.432	51.210	2.954	26.600
475	437	21.850	71.685	69.490	69.659	2.286	27.090	3.282	24.900
476	438	21.900	71.850	115.050	115.088	3.096	6.090	2.690	24.400
477	439	21.950	72.014	166.240	166.337	3.261	15.570	1.960	29.000
478	440	22.000	72.178	93.710	95.108	3.525	224.000	3.706	24.500
479	441	22.050	72.342	92.160	92.300	3.701	22.430	4.010	28.100
480	442	22.100	72.506	92.600	92.730	3.809	20.870	4.108	26.000
481	443	22.150	72.670	111.880	112.595	3.612	114.460	3.208	33.700
482	444	22.200	72.834	139.370	139.557	3.086	29.930	2.211	34.400
483	445	22.250	72.998	85.640	85.681	2.632	6.570	3.072	43.100
484	446	22.300	73.162	56.190	56.221	1.655	4.970	2.944	56.900
485	447	22.350	73.326	50.510	50.570	1.272	9.660	2.515	65.900
486	448	22.400	73.490	37.650	37.711	1.087	9.710	2.882	76.500
487	449	22.450	73.654	32.160	32.219	0.914	9.430	2.837	68.800
488	450	22.500	73.818	26.420	26.498	0.634	12.500	2.393	68.800
489	451	22.550	73.982	21.970	22.082	0.648	17.970	2.934	63.500
490	452	22.600	74.146	21.630	22.297	0.726	106.780	3.256	61.600
491	453	22.650	74.310	24.600	24.881	0.690	44.950	2.773	48.700
492	454	22.700	74.474	26.340	26.958	1.007	98.950	3.735	36.000
493	455	22.750	74.638	37.260	37.482	1.628	35.540	4.343	32.200
494	456	22.800	74.802	44.940	45.158	1.717	34.970	3.802	24.300
495	457	22.850	74.966	61.030	61.223	2.281	30.910	3.726	27.500
496	458	22.900	75.130	88.580	88.791	2.937	33.740	3.308	17.500
497	459	22.950	75.294	92.830	92.941	2.764	17.770	2.974	21.900
498	460	23.000	75.458	70.790	70.880	2.541	14.430	3.585	14.800
499	461	23.050	75.622	65.220	65.324	1.957	16.580	2.996	22.700
500	462	23.100	75.786	64.390	64.465	1.904	11.960	2.954	20.300
501	463	23.150	75.951	84.700	84.772	1.649	11.570	1.945	22.600
502	464	23.200	76.115	55.150	55.224	2.662	11.780	4.820	28.000
503	465	23.250	76.279	101.130	101.193	2.569	10.030	2.539	31.500
504	466	23.300	76.443	122.840	122.910	2.863	11.280	2.329	43.000
505	467	23.350	76.607	69.740	69.821	3.146	13.010	4.506	46.900
506	468	23.400	76.771	71.040	71.123	2.721	13.240	3.826	52.300
507	469	23.450	76.935	42.920	42.985	1.976	10.440	4.597	66.000
508	470	23.500	77.099	53.630	53.776	1.778	23.360	3.306	70.200
509	471	23.550	77.263	68.270	68.470	1.686	32.050	2.462	73.000
510	472	23.600	77.427	56.030	56.131	1.475	16.220	2.628	69.300
511	473	23.650	77.591	41.680	41.724	1.089	7.050	2.610	75.300
512	474	23.700	77.755	34.510	34.549	0.982	6.310	2.842	75.000
513	475	23.750	77.919	28.820	28.859	1.125	6.250	3.898	65.700
514	476	23.800	78.083	29.360	29.400	1.278	6.370	4.347	50.500
515	477	23.850	78.247	78.940	79.004	2.017	10.180	2.553	39.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	115.970	116.024	2.608	8.690	2.248	32.200
517	479	23.950	78.575	72.760	72.790	2.820	4.850	3.874	33.600
518	480	24.000	78.739	38.700	38.754	2.143	8.570	5.530	29.500
519	481	24.050	78.903	30.380	30.452	1.191	11.480	3.911	34.600
520	482	24.100	79.067	40.910	40.983	1.077	11.630	2.628	36.900
521	483	24.150	79.231	35.650	35.678	1.124	4.540	3.150	30.100
522	484	24.200	79.395	29.890	29.945	1.204	8.780	4.021	27.500
523	485	24.250	79.559	32.560	32.639	1.421	12.590	4.354	22.400
524	486	24.300	79.723	32.980	33.050	1.657	11.140	5.014	19.100
525	487	24.350	79.887	47.370	47.440	1.959	11.280	4.129	23.100
526	488	24.400	80.052	95.040	95.053	1.919	2.060	2.019	20.700
527	489	24.450	80.216	66.550	66.651	1.647	16.230	2.471	20.900
528	490	24.500	80.380	48.890	48.944	1.635	8.620	3.341	21.700
529	491	24.550	80.544	50.970	51.069	1.315	15.790	2.575	23.100
530	492	24.600	80.708	49.280	49.359	1.268	12.720	2.569	24.800
531	493	24.650	80.872	49.330	49.381	1.053	8.200	2.132	31.900
532	494	24.700	81.036	46.100	46.137	1.071	5.860	2.321	0.000
533	495	24.750	81.200	42.140	42.175	1.106	5.590	2.622	0.000
534	496	24.800	81.364	45.670	45.745	1.514	12.000	3.310	0.000
535	497	24.850	81.528	38.720	38.803	1.337	13.240	3.446	0.000
536	498	24.900	81.692	33.660	33.802	1.371	22.730	4.056	0.000
537	499	24.950	81.856	38.300	38.508	1.368	33.350	3.552	0.000
538	500	25.000	82.020	42.030	42.348	1.456	51.000	3.438	0.000
539	501	25.050	82.184	43.560	43.965	2.057	64.950	4.679	0.000
540	502	25.100	82.348	77.820	78.531	2.942	113.890	3.746	0.000
541	503	25.150	82.512	106.800	107.014	3.533	34.210	3.301	0.000
542	504	25.200	82.676	137.910	137.959	3.622	7.860	2.625	0.000
543	505	25.250	82.840	101.910	101.948	3.857	6.140	3.783	0.000
544	506	25.300	83.004	115.100	115.180	2.985	12.830	2.592	0.000
545	507	25.350	83.168	139.880	139.974	0.000	15.010	0.000	0.000
546	508	25.400	83.332	193.240	193.259	0.000	3.000	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272407				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-12				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-16-2015				
14		CPT Time:			10:14				
15		CPT File:			15-53039_GP1D-12.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722196.575				
31		Northing / Lat:			4294258.062				
32		Elevation:			154.010				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	12.320	12.322	0.010	0.290	0.081	21.600
40	2	0.100	0.328	25.930	25.942	0.084	1.910	0.324	22.500
41	3	0.150	0.492	27.610	27.615	0.169	0.810	0.612	25.700
42	4	0.200	0.656	32.190	32.207	0.118	2.760	0.366	32.700
43	5	0.250	0.820	46.290	46.290	0.171	-0.070	0.369	43.500
44	6	0.300	0.984	23.810	23.844	0.231	5.410	0.969	59.000
45	7	0.350	1.148	9.080	9.094	0.258	2.170	2.837	66.100
46	8	0.400	1.312	9.130	9.148	0.248	2.810	2.711	74.300
47	9	0.450	1.476	13.620	13.580	0.318	-6.360	2.342	74.000
48	10	0.500	1.640	21.450	21.428	0.425	-3.580	1.983	78.800
49	11	0.550	1.804	23.610	23.570	0.537	-6.360	2.278	79.700
50	12	0.600	1.968	21.680	21.617	0.579	-10.040	2.678	96.200
51	13	0.650	2.133	22.890	22.821	0.545	-11.100	2.388	97.500
52	14	0.700	2.297	27.700	27.631	0.556	-10.980	2.012	91.200
53	15	0.750	2.461	21.060	20.979	0.582	-13.020	2.774	87.000
54	16	0.800	2.625	15.360	15.275	0.563	-13.660	3.686	70.200
55	17	0.850	2.789	15.180	15.101	0.549	-12.650	3.636	91.200
56	18	0.900	2.953	20.760	20.696	0.583	-10.210	2.817	88.800
57	19	0.950	3.117	22.110	22.046	0.647	-10.250	2.935	86.100
58	20	1.000	3.281	24.970	24.909	0.620	-9.720	2.489	85.600
59	21	1.050	3.445	34.600	34.553	0.524	-7.490	1.517	82.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	34.370	34.315	0.467	-8.760	1.361	82.900
61	23	1.150	3.773	25.370	25.347	0.426	-3.760	1.681	77.500
62	24	1.200	3.937	17.880	17.860	0.356	-3.160	1.993	73.800
63	25	1.250	4.101	14.010	13.989	0.324	-3.320	2.316	72.000
64	26	1.300	4.265	11.440	11.423	0.207	-2.750	1.812	75.900
65	27	1.350	4.429	7.730	7.707	0.160	-3.720	2.076	77.800
66	28	1.400	4.593	6.240	6.237	0.057	-0.450	0.914	50.400
67	29	1.450	4.757	51.060	51.074	0.194	2.210	0.380	43.400
68	30	1.500	4.921	107.490	107.531	0.389	6.620	0.362	38.100
69	31	1.550	5.085	154.690	154.808	0.833	18.850	0.538	37.500
70	32	1.600	5.249	179.240	179.336	0.976	15.360	0.544	27.000
71	33	1.650	5.413	196.910	197.152	1.105	38.780	0.560	32.900
72	34	1.700	5.577	183.820	186.247	0.979	388.760	0.526	31.700
73	35	1.750	5.741	82.120	82.219	1.123	15.780	1.366	20.600
74	36	1.800	5.905	67.280	67.309	0.341	4.620	0.507	11.200
75	37	1.850	6.069	44.950	45.194	0.232	39.100	0.513	16.000
76	38	1.900	6.234	38.620	38.641	0.125	3.440	0.323	15.400
77	39	1.950	6.398	40.520	40.549	0.202	4.610	0.498	14.900
78	40	2.000	6.562	35.580	35.584	0.209	0.690	0.587	15.900
79	41	2.050	6.726	22.650	22.692	0.105	6.790	0.463	17.000
80	42	2.100	6.890	19.400	19.408	0.138	1.250	0.711	11.800
81	43	2.150	7.054	42.750	42.782	0.129	5.050	0.302	16.000
82	44	2.200	7.218	27.950	28.067	0.119	18.750	0.424	23.000
83	45	2.250	7.382	12.990	13.007	0.169	2.740	1.299	19.500
84	46	2.300	7.546	15.640	15.638	0.073	-0.340	0.467	20.400
85	47	2.350	7.710	23.540	23.553	0.108	2.080	0.459	24.200
86	48	2.400	7.874	18.780	18.874	0.153	14.980	0.811	26.700
87	49	2.450	8.038	18.770	18.797	0.112	4.300	0.596	29.700
88	50	2.500	8.202	22.800	22.942	0.099	22.810	0.432	29.700
89	51	2.550	8.366	25.940	25.982	0.030	6.660	0.115	42.100
90	52	2.600	8.530	21.530	21.640	0.060	17.590	0.277	47.200
91	53	2.650	8.694	18.150	18.227	0.028	12.370	0.154	58.600
92	54	2.700	8.858	13.830	13.980	0.018	24.060	0.129	69.200
93	55	2.750	9.022	13.730	13.951	0.037	35.390	0.265	72.600
94	56	2.800	9.186	15.570	15.780	0.073	33.600	0.463	76.800
95	57	2.850	9.350	16.910	17.108	0.109	31.690	0.637	80.400
96	58	2.900	9.514	17.880	18.090	0.145	33.650	0.802	71.000
97	59	2.950	9.678	20.230	20.465	0.042	37.690	0.205	63.300
98	60	3.000	9.842	20.940	21.233	0.080	46.940	0.377	54.400
99	61	3.050	10.006	39.900	39.938	0.104	6.040	0.260	40.500
100	62	3.100	10.170	29.190	29.223	0.110	5.340	0.376	27.200
101	63	3.150	10.335	34.680	34.758	0.194	12.550	0.558	31.500
102	64	3.200	10.499	48.940	48.946	0.210	1.000	0.429	24.900
103	65	3.250	10.663	48.660	48.654	0.126	-0.960	0.259	25.000
104	66	3.300	10.827	54.980	55.070	0.261	14.340	0.474	26.200
105	67	3.350	10.991	48.870	48.923	0.328	8.440	0.670	15.100
106	68	3.400	11.155	51.160	51.231	0.279	11.340	0.545	16.300
107	69	3.450	11.319	48.580	48.630	0.200	7.960	0.411	16.300
108	70	3.500	11.483	70.670	70.675	0.168	0.770	0.238	15.300
109	71	3.550	11.647	123.620	123.670	0.728	8.020	0.589	16.300
110	72	3.600	11.811	201.830	201.885	0.585	8.790	0.290	14.500
111	73	3.650	11.975	292.220	292.327	0.811	17.150	0.277	12.300
112	74	3.700	12.139	249.690	251.054	1.090	218.490	0.434	9.900
113	75	3.750	12.303	89.580	89.586	1.272	0.930	1.420	12.100
114	76	3.800	12.467	147.610	147.775	0.624	26.420	0.422	10.500
115	77	3.850	12.631	128.380	128.395	0.927	2.370	0.722	10.400
116	78	3.900	12.795	120.350	120.347	1.222	-0.410	1.015	12.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	120.550	120.672	1.391	19.610	1.153	11.800
118	80	4.000	13.123	198.370	198.369	0.935	-0.120	0.471	8.100
119	81	4.050	13.287	161.310	161.497	1.663	30.000	1.030	12.900
120	82	4.100	13.451	129.540	129.555	2.541	2.330	1.961	15.500
121	83	4.150	13.615	124.250	124.286	3.127	5.790	2.516	15.800
122	84	4.200	13.779	116.060	116.190	4.846	20.780	4.171	17.900
123	85	4.250	13.943	128.780	128.785	5.068	0.810	3.935	24.000
124	86	4.300	14.107	82.020	82.080	4.223	9.620	5.145	11.200
125	87	4.350	14.271	133.850	133.919	3.022	11.100	2.257	15.900
126	88	4.400	14.436	242.750	242.881	3.645	20.990	1.501	20.000
127	89	4.450	14.600	157.550	157.984	3.547	69.580	2.245	33.700
128	90	4.500	14.764	98.770	98.792	3.381	3.540	3.422	26.400
129	91	4.550	14.928	185.010	185.140	2.279	20.820	1.231	30.600
130	92	4.600	15.092	130.750	130.779	2.391	4.680	1.828	23.800
131	93	4.650	15.256	94.990	95.158	1.661	26.890	1.746	30.100
132	94	4.700	15.420	68.070	68.305	1.201	37.660	1.758	29.400
133	95	4.750	15.584	114.500	114.590	0.873	14.490	0.762	26.900
134	96	4.800	15.748	91.740	92.150	1.288	65.690	1.398	31.900
135	97	4.850	15.912	46.800	46.869	1.220	11.100	2.603	30.000
136	98	4.900	16.076	48.090	48.284	0.850	31.140	1.760	26.100
137	99	4.950	16.240	36.710	36.796	0.807	13.830	2.193	35.500
138	100	5.000	16.404	50.110	50.170	0.723	9.600	1.441	24.700
139	101	5.050	16.568	46.570	46.621	0.892	8.190	1.913	23.300
140	102	5.100	16.732	45.600	45.727	0.827	20.350	1.809	22.100
141	103	5.150	16.896	43.240	43.280	0.551	6.450	1.273	22.700
142	104	5.200	17.060	72.350	72.424	0.689	11.890	0.951	27.700
143	105	5.250	17.224	91.880	91.924	1.107	7.020	1.204	23.100
144	106	5.300	17.388	46.520	46.561	1.113	6.600	2.390	22.800
145	107	5.350	17.552	112.490	112.606	1.587	18.550	1.409	24.000
146	108	5.400	17.716	227.550	227.715	3.036	26.450	1.333	24.800
147	109	5.450	17.880	201.800	202.135	2.791	53.610	1.381	24.200
148	110	5.500	18.044	45.520	45.551	1.930	4.980	4.237	36.800
149	111	5.550	18.208	20.030	20.094	1.540	10.300	7.664	46.700
150	112	5.600	18.372	25.050	25.280	0.759	36.830	3.002	56.000
151	113	5.650	18.537	39.700	39.790	0.763	14.460	1.918	64.400
152	114	5.700	18.701	36.500	36.618	0.880	18.970	2.403	80.100
153	115	5.750	18.865	31.030	31.103	0.847	11.630	2.723	80.600
154	116	5.800	19.029	27.100	27.122	0.827	3.600	3.049	89.000
155	117	5.850	19.193	28.540	28.570	0.834	4.850	2.919	83.500
156	118	5.900	19.357	28.280	28.329	0.758	7.870	2.676	81.100
157	119	5.950	19.521	26.410	26.457	0.845	7.590	3.194	74.000
158	120	6.000	19.685	29.200	29.232	0.984	5.120	3.366	63.900
159	121	6.050	19.849	64.410	64.404	1.265	-0.960	1.964	52.400
160	122	6.100	20.013	117.390	117.506	2.216	18.570	1.886	44.400
161	123	6.150	20.177	70.360	70.416	1.986	9.020	2.820	33.100
162	124	6.200	20.341	60.870	60.918	2.265	7.650	3.718	26.300
163	125	6.250	20.505	129.930	130.016	2.427	13.800	1.867	20.400
164	126	6.300	20.669	96.510	96.556	2.498	7.310	2.587	23.700
165	127	6.350	20.833	92.240	92.471	2.398	36.930	2.593	15.400
166	128	6.400	20.997	95.850	96.065	1.955	34.410	2.035	14.800
167	129	6.450	21.161	82.560	82.559	1.846	-0.210	2.236	19.300
168	130	6.500	21.325	75.240	75.293	1.614	8.460	2.144	15.400
169	131	6.550	21.489	65.510	65.565	1.974	8.780	3.011	21.100
170	132	6.600	21.653	62.330	62.367	2.493	5.960	3.997	21.900
171	133	6.650	21.817	68.980	69.018	2.316	6.080	3.356	17.700
172	134	6.700	21.981	60.530	60.671	1.611	22.590	2.655	19.000
173	135	6.750	22.145	65.100	65.218	1.128	18.860	1.730	12.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	49.330	49.407	0.577	12.290	1.168	12.300
175	137	6.850	22.473	72.030	72.084	0.825	8.610	1.145	10.300
176	138	6.900	22.638	44.850	44.885	1.243	5.560	2.769	11.800
177	139	6.950	22.802	78.730	78.786	1.222	8.950	1.551	14.900
178	140	7.000	22.966	94.780	94.835	1.000	8.890	1.054	11.800
179	141	7.050	23.130	64.740	64.747	1.167	1.180	1.802	17.400
180	142	7.100	23.294	60.710	60.782	1.034	11.470	1.701	17.600
181	143	7.150	23.458	62.530	62.584	0.955	8.570	1.526	13.300
182	144	7.200	23.622	89.920	89.995	0.744	12.060	0.827	13.200
183	145	7.250	23.786	70.820	70.865	0.960	7.170	1.355	16.200
184	146	7.300	23.950	148.610	148.690	1.017	12.890	0.684	24.500
185	147	7.350	24.114	142.090	142.144	1.335	8.570	0.939	14.000
186	148	7.400	24.278	93.850	93.923	1.434	11.770	1.527	26.500
187	149	7.450	24.442	74.070	74.138	1.719	10.900	2.319	24.200
188	150	7.500	24.606	66.050	66.110	1.437	9.640	2.174	28.400
189	151	7.550	24.770	69.410	69.456	1.185	7.320	1.706	25.800
190	152	7.600	24.934	48.020	48.016	1.300	-0.580	2.707	25.100
191	153	7.650	25.098	46.460	46.486	1.240	4.210	2.667	31.300
192	154	7.700	25.262	53.420	53.439	1.149	2.990	2.150	29.200
193	155	7.750	25.426	40.660	40.690	0.941	4.760	2.313	26.800
194	156	7.800	25.590	56.490	56.481	0.497	-1.520	0.880	25.800
195	157	7.850	25.754	22.680	22.745	1.014	10.460	4.458	23.700
196	158	7.900	25.918	34.320	34.391	1.249	11.440	3.632	31.400
197	159	7.950	26.082	78.420	78.496	1.604	12.110	2.043	22.100
198	160	8.000	26.246	135.390	135.410	2.092	3.250	1.545	29.000
199	161	8.050	26.410	220.820	220.883	3.093	10.150	1.400	27.000
200	162	8.100	26.574	156.960	156.969	2.890	1.450	1.841	26.400
201	163	8.150	26.739	83.950	84.228	2.855	44.530	3.390	29.100
202	164	8.200	26.903	137.810	137.898	2.047	14.160	1.484	30.800
203	165	8.250	27.067	101.370	101.461	2.142	14.610	2.111	25.500
204	166	8.300	27.231	78.950	78.955	2.797	0.850	3.543	34.000
205	167	8.350	27.395	122.690	122.749	1.349	9.480	1.099	34.900
206	168	8.400	27.559	157.230	157.534	1.524	48.770	0.967	35.700
207	169	8.450	27.723	232.840	232.887	0.805	7.570	0.346	34.200
208	170	8.500	27.887	93.820	93.833	1.073	2.040	1.144	30.000
209	171	8.550	28.051	82.940	82.960	1.188	3.210	1.432	39.400
210	172	8.600	28.215	122.000	122.039	1.155	6.320	0.946	56.800
211	173	8.650	28.379	53.100	53.094	1.008	-0.910	1.899	58.600
212	174	8.700	28.543	26.370	26.369	1.141	-0.140	4.327	72.600
213	175	8.750	28.707	22.360	22.372	1.006	1.890	4.497	85.300
214	176	8.800	28.871	22.160	22.184	1.186	3.910	5.346	91.000
215	177	8.850	29.035	21.250	21.285	1.173	5.530	5.511	87.600
216	178	8.900	29.199	24.640	24.676	1.218	5.750	4.936	84.300
217	179	8.950	29.363	50.950	51.001	1.385	8.220	2.716	100.900
218	180	9.000	29.527	58.050	58.087	1.239	5.860	2.133	97.500
219	181	9.050	29.691	53.790	53.796	0.871	0.900	1.619	83.300
220	182	9.100	29.855	35.700	35.704	0.704	0.630	1.972	99.900
221	183	9.150	30.019	34.900	34.913	0.713	2.010	2.042	95.100
222	184	9.200	30.183	42.070	42.101	0.740	4.920	1.758	98.100
223	185	9.250	30.347	48.020	48.056	0.795	5.750	1.654	97.600
224	186	9.300	30.511	48.860	48.891	1.163	4.900	2.379	91.000
225	187	9.350	30.675	59.930	59.944	1.090	2.260	1.818	80.400
226	188	9.400	30.840	37.990	38.002	1.709	1.930	4.497	71.800
227	189	9.450	31.004	41.340	41.364	1.466	3.820	3.544	80.900
228	190	9.500	31.168	61.880	61.878	1.402	-0.250	2.266	75.100
229	191	9.550	31.332	67.900	67.941	2.022	6.520	2.976	69.100
230	192	9.600	31.496	26.790	26.752	1.944	-6.010	7.267	56.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	33.780	33.747	1.548	-5.280	4.587	44.900
232	194	9.700	31.824	28.460	28.491	0.853	4.890	2.994	45.900
233	195	9.750	31.988	17.120	17.095	0.637	-4.070	3.726	33.200
234	196	9.800	32.152	23.000	22.992	0.836	-1.220	3.636	28.000
235	197	9.850	32.316	44.280	44.275	1.155	-0.840	2.609	30.800
236	198	9.900	32.480	51.500	51.512	1.353	2.000	2.627	32.100
237	199	9.950	32.644	56.990	57.017	1.484	4.290	2.603	46.600
238	200	10.000	32.808	58.630	58.657	1.046	4.360	1.783	38.300
239	201	10.050	32.972	115.210	115.245	1.229	5.640	1.066	46.200
240	202	10.100	33.136	56.440	56.562	1.438	19.620	2.542	59.900
241	203	10.150	33.300	50.460	50.517	1.715	9.160	3.395	63.600
242	204	10.200	33.464	71.380	71.433	1.914	8.430	2.679	49.900
243	205	10.250	33.628	114.900	114.985	2.244	13.660	1.952	47.500
244	206	10.300	33.792	53.080	53.154	2.487	11.930	4.679	44.800
245	207	10.350	33.956	34.950	34.977	1.781	4.380	5.092	56.700
246	208	10.400	34.120	42.700	42.773	1.381	11.770	3.229	63.900
247	209	10.450	34.284	44.830	44.979	1.088	23.920	2.419	67.400
248	210	10.500	34.448	27.560	27.811	1.019	40.220	3.664	66.900
249	211	10.550	34.612	27.240	27.305	1.229	10.380	4.501	65.500
250	212	10.600	34.776	25.120	25.171	1.253	8.090	4.978	66.900
251	213	10.650	34.941	39.880	39.987	1.395	17.140	3.489	68.300
252	214	10.700	35.105	51.910	51.964	1.675	8.720	3.223	65.800
253	215	10.750	35.269	52.490	52.496	1.501	0.910	2.859	59.100
254	216	10.800	35.433	29.330	29.758	1.263	68.550	4.244	59.400
255	217	10.850	35.597	49.440	49.547	1.145	17.070	2.311	74.000
256	218	10.900	35.761	36.420	36.597	1.271	28.390	3.473	84.700
257	219	10.950	35.925	40.650	40.813	1.599	26.050	3.918	73.600
258	220	11.000	36.089	42.740	42.782	1.338	6.700	3.127	76.300
259	221	11.050	36.253	33.520	33.507	1.516	-2.090	4.524	86.900
260	222	11.100	36.417	30.630	30.605	1.221	-4.080	3.990	66.200
261	223	11.150	36.581	22.880	22.877	1.613	-0.480	7.051	60.400
262	224	11.200	36.745	56.820	56.831	1.369	1.710	2.409	52.300
263	225	11.250	36.909	83.540	83.620	1.633	12.770	1.953	40.800
264	226	11.300	37.073	107.730	107.745	2.361	2.400	2.191	43.800
265	227	11.350	37.237	65.560	65.541	2.268	-3.000	3.460	51.700
266	228	11.400	37.401	68.890	68.917	2.664	4.300	3.866	60.700
267	229	11.450	37.565	96.800	96.851	2.442	8.200	2.521	47.400
268	230	11.500	37.729	66.190	66.463	2.788	43.700	4.195	44.300
269	231	11.550	37.893	54.400	54.518	2.310	18.930	4.237	59.100
270	232	11.600	38.057	30.240	30.634	1.770	63.160	5.778	63.500
271	233	11.650	38.221	30.800	31.368	1.327	91.020	4.230	70.800
272	234	11.700	38.385	30.730	30.868	0.972	22.080	3.149	55.000
273	235	11.750	38.549	33.050	33.156	0.802	17.000	2.419	46.800
274	236	11.800	38.713	34.610	34.645	0.930	5.600	2.684	37.300
275	237	11.850	38.877	36.000	36.032	1.076	5.190	2.986	43.900
276	238	11.900	39.042	36.690	36.721	1.062	4.960	2.892	29.300
277	239	11.950	39.206	73.120	73.198	1.199	12.420	1.638	36.000
278	240	12.000	39.370	33.130	33.164	1.138	5.370	3.431	37.500
279	241	12.050	39.534	22.080	22.101	0.729	3.420	3.298	38.500
280	242	12.100	39.698	22.570	22.564	0.802	-1.030	3.554	37.000
281	243	12.150	39.862	33.800	33.817	0.812	2.650	2.401	34.300
282	244	12.200	40.026	23.350	23.380	0.883	4.830	3.777	39.100
283	245	12.250	40.190	15.670	15.740	0.779	11.260	4.949	32.400
284	246	12.300	40.354	21.780	21.876	0.816	15.430	3.730	36.000
285	247	12.350	40.518	36.680	36.744	1.042	10.230	2.836	35.800
286	248	12.400	40.682	35.730	35.761	1.146	4.960	3.205	35.800
287	249	12.450	40.846	19.310	19.358	0.967	7.760	4.995	36.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	15.790	16.113	0.907	51.680	5.629	42.900
289	251	12.550	41.174	51.460	51.567	1.212	17.110	2.350	55.300
290	252	12.600	41.338	49.600	49.826	1.527	36.190	3.065	37.600
291	253	12.650	41.502	59.930	60.201	1.776	43.450	2.950	35.200
292	254	12.700	41.666	79.120	79.246	2.329	20.110	2.939	30.200
293	255	12.750	41.830	137.380	137.484	2.028	16.630	1.475	28.700
294	256	12.800	41.994	210.770	210.879	2.299	17.400	1.090	31.900
295	257	12.850	42.158	48.500	48.543	1.792	6.890	3.692	34.700
296	258	12.900	42.322	31.460	32.215	1.567	120.990	4.864	39.100
297	259	12.950	42.486	31.980	32.427	1.131	71.610	3.488	39.200
298	260	13.000	42.650	55.960	56.479	1.629	83.090	2.884	40.500
299	261	13.050	42.814	60.090	60.310	1.997	35.230	3.311	35.400
300	262	13.100	42.978	82.130	82.348	2.537	34.950	3.081	36.900
301	263	13.150	43.143	104.210	105.094	2.847	141.590	2.709	40.500
302	264	13.200	43.307	43.660	43.716	2.365	8.940	5.410	43.000
303	265	13.250	43.471	17.480	17.484	1.153	0.700	6.594	55.300
304	266	13.300	43.635	13.770	13.791	0.675	3.330	4.895	68.900
305	267	13.350	43.799	17.960	18.041	0.389	12.990	2.156	66.300
306	268	13.400	43.963	17.510	17.649	0.518	22.250	2.935	71.500
307	269	13.450	44.127	49.110	49.383	1.131	43.740	2.290	66.500
308	270	13.500	44.291	53.840	53.888	1.651	7.700	3.064	50.800
309	271	13.550	44.455	50.780	50.842	1.744	9.950	3.430	66.500
310	272	13.600	44.619	34.680	34.772	1.104	14.710	3.175	67.500
311	273	13.650	44.783	24.450	24.517	0.683	10.780	2.786	67.200
312	274	13.700	44.947	22.670	22.774	0.614	16.730	2.696	69.400
313	275	13.750	45.111	25.460	25.634	0.605	27.800	2.360	83.000
314	276	13.800	45.275	48.850	49.320	1.194	75.210	2.421	82.200
315	277	13.850	45.439	57.710	57.822	1.754	18.020	3.033	73.000
316	278	13.900	45.603	58.350	58.548	1.907	31.640	3.257	57.200
317	279	13.950	45.767	59.120	59.403	2.279	45.350	3.836	39.100
318	280	14.000	45.931	77.730	77.835	1.954	16.790	2.510	39.600
319	281	14.050	46.095	73.280	73.508	2.507	36.600	3.410	30.500
320	282	14.100	46.259	81.350	81.435	2.273	13.620	2.791	28.800
321	283	14.150	46.423	78.390	78.500	2.495	17.650	3.178	30.800
322	284	14.200	46.587	101.050	101.159	3.232	17.540	3.195	32.900
323	285	14.250	46.751	102.240	102.313	3.138	11.750	3.067	35.200
324	286	14.300	46.915	71.420	71.489	2.501	11.020	3.498	42.700
325	287	14.350	47.079	79.650	79.784	1.772	21.520	2.221	60.600
326	288	14.400	47.244	69.920	69.988	1.165	10.950	1.665	69.800
327	289	14.450	47.408	60.970	61.042	1.261	11.490	2.066	74.800
328	290	14.500	47.572	64.580	64.737	1.324	25.170	2.045	78.400
329	291	14.550	47.736	63.640	63.695	1.624	8.890	2.550	77.300
330	292	14.600	47.900	62.690	62.750	2.030	9.620	3.235	57.700
331	293	14.650	48.064	63.220	63.320	1.960	15.950	3.095	45.500
332	294	14.700	48.228	73.060	73.518	2.116	73.320	2.878	41.300
333	295	14.750	48.392	61.420	61.676	2.262	40.990	3.668	36.200
334	296	14.800	48.556	65.620	65.780	2.306	25.550	3.506	30.900
335	297	14.850	48.720	66.860	67.115	2.400	40.820	3.576	38.200
336	298	14.900	48.884	75.280	75.805	2.444	84.050	3.224	46.800
337	299	14.950	49.048	93.500	93.659	2.098	25.460	2.240	58.900
338	300	15.000	49.212	74.830	74.884	1.725	8.640	2.304	71.800
339	301	15.050	49.376	48.490	48.532	1.324	6.670	2.728	76.600
340	302	15.100	49.540	38.760	38.807	1.206	7.550	3.108	81.500
341	303	15.150	49.704	59.340	59.481	1.391	22.650	2.339	72.100
342	304	15.200	49.868	101.470	101.608	1.571	22.170	1.546	68.200
343	305	15.250	50.032	83.530	83.579	2.620	7.790	3.135	61.500
344	306	15.300	50.196	78.040	78.053	2.516	2.030	3.223	58.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	43.070	43.102	2.538	5.200	5.888	63.400
346	308	15.400	50.524	40.640	40.732	2.062	14.710	5.062	76.200
347	309	15.450	50.688	73.740	73.954	2.487	34.240	3.363	71.700
348	310	15.500	50.852	74.530	74.623	2.613	14.900	3.502	76.600
349	311	15.550	51.016	76.110	76.241	2.735	21.050	3.587	74.000
350	312	15.600	51.180	72.850	72.983	2.396	21.340	3.283	67.100
351	313	15.650	51.345	58.230	58.305	2.224	12.030	3.814	79.900
352	314	15.700	51.509	58.960	59.113	2.345	24.580	3.967	79.100
353	315	15.750	51.673	73.710	73.871	2.907	25.860	3.935	73.100
354	316	15.800	51.837	107.120	107.323	3.423	32.530	3.189	80.900
355	317	15.850	52.001	85.130	85.310	3.671	28.780	4.303	80.300
356	318	15.900	52.165	74.500	75.450	3.161	152.200	4.190	96.200
357	319	15.950	52.329	91.610	92.455	3.267	135.340	3.534	94.200
358	320	16.000	52.493	74.160	74.279	2.978	19.060	4.009	92.500
359	321	16.050	52.657	62.810	63.019	2.365	33.550	3.753	73.800
360	322	16.100	52.821	65.450	66.123	2.172	107.830	3.285	90.200
361	323	16.150	52.985	69.880	70.021	2.079	22.570	2.969	88.600
362	324	16.200	53.149	72.500	72.662	1.963	25.930	2.702	92.900
363	325	16.250	53.313	74.680	74.824	2.451	23.060	3.276	89.100
364	326	16.300	53.477	94.410	94.768	2.543	57.410	2.683	84.200
365	327	16.350	53.641	110.990	111.278	3.189	46.190	2.866	77.900
366	328	16.400	53.805	98.660	98.751	3.033	14.500	3.071	86.500
367	329	16.450	53.969	90.530	90.660	2.877	20.850	3.173	69.200
368	330	16.500	54.133	83.340	83.439	2.578	15.800	3.090	54.100
369	331	16.550	54.297	59.320	59.382	2.290	9.960	3.856	32.500
370	332	16.600	54.461	66.550	66.623	2.563	11.620	3.847	23.300
371	333	16.650	54.625	51.540	51.560	2.295	3.260	4.451	17.300
372	334	16.700	54.789	29.550	29.907	2.228	57.170	7.450	23.400
373	335	16.750	54.953	46.120	46.977	1.752	137.320	3.729	18.500
374	336	16.800	55.117	19.430	19.567	1.725	21.980	8.816	17.200
375	337	16.850	55.281	40.380	40.830	1.925	72.160	4.715	18.000
376	338	16.900	55.446	78.820	79.141	2.111	51.340	2.667	25.800
377	339	16.950	55.610	30.610	31.361	2.291	120.260	7.305	13.800
378	340	17.000	55.774	146.990	147.271	2.507	45.020	1.702	6.400
379	341	17.050	55.938	115.890	115.936	2.129	7.290	1.836	13.000
380	342	17.100	56.102	70.180	70.233	2.074	8.500	2.953	9.400
381	343	17.150	56.266	74.500	74.555	1.170	8.800	1.569	11.900
382	344	17.200	56.430	73.160	73.248	0.961	14.060	1.312	13.800
383	345	17.250	56.594	67.950	68.018	1.266	10.960	1.861	3.600
384	346	17.300	56.758	71.990	72.064	1.453	11.780	2.016	11.100
385	347	17.350	56.922	66.650	66.749	1.925	15.820	2.884	14.500
386	348	17.400	57.086	67.210	67.373	2.233	26.180	3.314	11.000
387	349	17.450	57.250	58.220	58.404	2.070	29.510	3.544	17.300
388	350	17.500	57.414	61.020	61.131	2.497	17.810	4.085	17.300
389	351	17.550	57.578	71.170	71.258	1.441	14.070	2.022	18.300
390	352	17.600	57.742	216.450	216.581	1.511	20.980	0.698	19.300
391	353	17.650	57.906	403.160	403.727	1.611	90.890	0.399	23.600
392	354	17.700	58.070	32.450	34.802	1.990	376.790	5.718	26.600
393	355	17.750	58.234	21.450	23.848	1.922	384.110	8.059	26.900
394	356	17.800	58.398	23.920	26.395	1.139	396.450	4.315	33.600
395	357	17.850	58.562	30.450	31.234	0.725	125.590	2.321	39.400
396	358	17.900	58.726	18.280	18.312	0.535	5.120	2.922	43.600
397	359	17.950	58.890	3.100	3.107	0.219	1.190	7.048	60.800
398	360	18.000	59.054	1.210	1.226	0.071	2.530	5.792	66.700
399	361	18.050	59.218	1.720	1.738	0.027	2.940	1.553	75.100
400	362	18.100	59.382	1.490	1.509	0.022	2.990	1.458	81.100
401	363	18.150	59.547	1.570	1.588	0.018	2.930	1.133	81.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	1.760	1.773	0.024	2.120	1.353	79.700
403	365	18.250	59.875	1.040	1.049	0.026	1.500	2.478	69.700
404	366	18.300	60.039	1.970	1.979	0.030	1.390	1.516	77.700
405	367	18.350	60.203	1.690	1.699	0.066	1.490	3.884	59.600
406	368	18.400	60.367	3.440	3.445	0.095	0.740	2.758	47.100
407	369	18.450	60.531	6.250	6.278	0.465	4.410	7.407	47.200
408	370	18.500	60.695	18.540	18.566	0.909	4.120	4.896	28.700
409	371	18.550	60.859	21.300	21.374	0.953	11.930	4.459	21.000
410	372	18.600	61.023	3.980	4.003	0.680	3.720	16.986	18.500
411	373	18.650	61.187	3.370	3.389	0.252	3.050	7.436	22.400
412	374	18.700	61.351	1.340	1.359	0.227	3.000	16.707	19.000
413	375	18.750	61.515	2.900	2.919	0.238	3.100	8.152	18.400
414	376	18.800	61.679	4.040	4.060	0.304	3.190	7.488	19.900
415	377	18.850	61.843	6.110	6.150	0.474	6.410	7.707	6.000
416	378	18.900	62.007	7.090	7.101	0.691	1.800	9.731	24.000
417	379	18.950	62.171	14.570	14.601	0.770	5.020	5.273	26.700
418	380	19.000	62.335	6.240	6.312	1.018	11.540	16.128	35.400
419	381	19.050	62.499	21.790	22.030	1.475	38.400	6.696	28.200
420	382	19.100	62.663	23.040	23.171	1.612	20.950	6.957	31.100
421	383	19.150	62.827	18.110	18.161	1.208	8.090	6.652	25.300
422	384	19.200	62.991	8.070	8.130	0.914	9.610	11.242	32.200
423	385	19.250	63.155	17.480	17.507	0.463	4.350	2.645	47.400
424	386	19.300	63.319	1.210	1.275	0.377	10.440	29.565	69.300
425	387	19.350	63.483	1.060	1.129	0.134	11.050	11.869	52.100
426	388	19.400	63.648	1.560	1.623	0.032	10.060	1.972	68.300
427	389	19.450	63.812	1.430	1.500	0.021	11.170	1.400	68.000
428	390	19.500	63.976	1.490	1.565	0.019	11.990	1.214	45.700
429	391	19.550	64.140	1.340	1.386	0.026	7.370	1.876	58.300
430	392	19.600	64.304	2.400	2.452	0.079	8.370	3.222	60.500
431	393	19.650	64.468	8.010	8.079	0.190	11.000	2.352	48.300
432	394	19.700	64.632	20.070	20.180	1.145	17.590	5.674	45.500
433	395	19.750	64.796	33.920	34.013	1.242	14.830	3.652	59.000
434	396	19.800	64.960	40.480	40.611	1.023	21.010	2.519	64.200
435	397	19.850	65.124	1.930	1.959	0.541	4.700	27.611	70.600
436	398	19.900	65.288	1.880	1.894	0.337	2.310	17.789	72.500
437	399	19.950	65.452	1.370	1.380	0.148	1.550	10.727	78.600
438	400	20.000	65.616	1.700	1.710	0.102	1.670	5.963	69.300
439	401	20.050	65.780	1.980	1.996	0.080	2.580	4.008	65.500
440	402	20.100	65.944	2.100	2.115	0.122	2.450	5.768	67.200
441	403	20.150	66.108	2.800	2.816	0.208	2.540	7.387	67.100
442	404	20.200	66.272	6.590	6.603	0.370	2.130	5.603	54.900
443	405	20.250	66.436	7.530	7.529	0.810	-0.150	10.758	46.600
444	406	20.300	66.600	13.640	13.609	0.157	-4.950	1.154	56.400
445	407	20.350	66.764	23.730	23.711	0.331	-3.020	1.396	40.400
446	408	20.400	66.928	17.340	17.326	0.176	-2.170	1.016	35.800
447	409	20.450	67.092	5.210	5.186	0.240	-3.800	4.628	41.000
448	410	20.500	67.256	6.050	6.005	0.060	-7.210	0.999	50.900
449	411	20.550	67.420	6.250	6.221	0.021	-4.610	0.338	51.200
450	412	20.600	67.584	4.240	4.207	0.475	-5.210	11.289	44.300
451	413	20.650	67.749	10.050	10.015	0.626	-5.590	6.251	42.400
452	414	20.700	67.913	7.850	7.817	0.811	-5.240	10.374	45.100
453	415	20.750	68.077	10.810	10.817	0.520	1.140	4.807	55.200
454	416	20.800	68.241	1.690	1.707	0.312	2.800	18.273	49.900
455	417	20.850	68.405	2.610	2.622	0.290	1.950	11.060	48.800
456	418	20.900	68.569	1.320	1.337	0.098	2.700	7.331	52.000
457	419	20.950	68.733	1.170	1.187	0.064	2.650	5.394	52.100
458	420	21.000	68.897	1.300	1.317	0.063	2.690	4.784	46.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	1.440	1.456	0.084	2.510	5.771	42.900
460	422	21.100	69.225	1.210	1.226	0.094	2.540	7.668	46.300
461	423	21.150	69.389	1.600	1.616	0.050	2.520	3.095	49.100
462	424	21.200	69.553	1.610	1.627	0.392	2.680	24.097	41.100
463	425	21.250	69.717	10.600	10.616	0.488	2.610	4.597	44.500
464	426	21.300	69.881	1.490	1.507	0.462	2.720	30.657	46.200
465	427	21.350	70.045	1.190	1.206	0.702	2.560	58.210	52.100
466	428	21.400	70.209	1.530	1.549	0.147	3.030	9.491	45.300
467	429	21.450	70.373	3.780	3.797	0.146	2.730	3.845	63.100
468	430	21.500	70.537	1.180	1.197	0.277	2.750	23.138	55.100
469	431	21.550	70.701	1.000	1.017	0.257	2.790	25.260	41.000
470	432	21.600	70.865	5.430	5.446	0.134	2.630	2.460	57.200
471	433	21.650	71.029	3.310	3.328	0.111	2.810	3.336	42.400
472	434	21.700	71.193	9.890	9.909	0.397	3.050	4.006	54.500
473	435	21.750	71.357	10.690	10.709	0.507	3.000	4.734	51.300
474	436	21.800	71.521	8.500	8.517	0.385	2.650	4.521	51.200
475	437	21.850	71.685	3.910	3.927	0.476	2.720	12.121	45.000
476	438	21.900	71.850	4.590	4.607	0.385	2.670	8.357	48.700
477	439	21.950	72.014	2.150	2.167	0.466	2.760	21.502	55.200
478	440	22.000	72.178	3.000	3.016	0.294	2.500	9.749	54.000
479	441	22.050	72.342	2.220	2.237	0.433	2.740	19.355	62.500
480	442	22.100	72.506	9.680	9.699	0.136	3.120	1.402	54.400
481	443	22.150	72.670	2.370	2.387	0.433	2.770	18.138	57.800
482	444	22.200	72.834	6.360	6.378	0.242	2.830	3.794	53.400
483	445	22.250	72.998	2.540	2.558	0.197	2.870	7.702	50.100
484	446	22.300	73.162	3.180	3.198	0.090	2.960	2.814	61.600
485	447	22.350	73.326	2.380	2.398	0.074	2.890	3.086	59.200
486	448	22.400	73.490	6.710	6.729	0.230	2.970	3.418	67.700
487	449	22.450	73.654	5.140	5.158	0.189	2.880	3.664	77.400
488	450	22.500	73.818	1.910	1.927	0.178	2.790	9.235	61.700
489	451	22.550	73.982	1.790	1.808	0.077	2.870	4.259	61.900
490	452	22.600	74.146	1.450	1.468	0.138	2.840	9.402	67.300
491	453	22.650	74.310	6.300	6.317	0.145	2.690	2.295	70.000
492	454	22.700	74.474	1.910	1.927	0.102	2.800	5.292	55.400
493	455	22.750	74.638	1.830	1.848	0.102	2.810	5.521	62.900
494	456	22.800	74.802	1.080	1.098	0.152	2.860	13.845	67.200
495	457	22.850	74.966	1.150	1.168	0.088	2.820	7.537	77.300
496	458	22.900	75.130	2.010	2.028	0.074	2.850	3.649	66.800
497	459	22.950	75.294	1.970	1.988	0.127	2.840	6.389	85.500
498	460	23.000	75.458	4.420	4.435	0.102	2.470	2.300	74.500
499	461	23.050	75.622	1.560	1.553	0.101	-1.080	6.502	75.900
500	462	23.100	75.786	1.760	1.756	0.085	-0.580	4.840	73.200
501	463	23.150	75.951	1.860	1.893	0.086	5.300	4.543	87.500
502	464	23.200	76.115	2.260	2.331	0.095	11.350	4.076	87.300
503	465	23.250	76.279	3.290	3.321	0.135	4.920	4.065	84.600
504	466	23.300	76.443	2.960	3.066	0.091	17.010	2.968	97.800
505	467	23.350	76.607	3.080	3.161	0.051	12.940	1.614	80.600
506	468	23.400	76.771	3.460	3.541	0.087	12.900	2.457	91.300
507	469	23.450	76.935	4.640	4.749	0.063	17.500	1.327	79.800
508	470	23.500	77.099	2.990	3.085	0.093	15.210	3.015	57.500
509	471	23.550	77.263	3.450	3.557	0.063	17.060	1.771	89.800
510	472	23.600	77.427	3.130	3.267	0.084	21.980	2.571	83.400
511	473	23.650	77.591	4.830	4.992	0.052	25.950	1.042	79.000
512	474	23.700	77.755	3.630	3.863	0.049	37.340	1.268	90.800
513	475	23.750	77.919	3.500	3.762	0.032	42.030	0.851	86.400
514	476	23.800	78.083	3.390	3.689	0.078	47.860	2.115	80.400
515	477	23.850	78.247	1.540	1.806	0.270	42.630	14.949	86.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	8.310	8.531	0.222	35.460	2.602	85.800
517	479	23.950	78.575	2.710	2.924	0.173	34.210	5.917	89.400
518	480	24.000	78.739	4.110	4.386	0.035	44.150	0.798	80.600
519	481	24.050	78.903	2.230	2.487	0.054	41.170	2.171	89.500
520	482	24.100	79.067	5.720	6.063	0.093	55.010	1.534	80.500
521	483	24.150	79.231	10.650	11.036	0.191	61.850	1.731	89.300
522	484	24.200	79.395	19.200	19.567	0.216	58.830	1.104	80.900
523	485	24.250	79.559	26.680	26.893	0.396	34.170	1.472	93.500
524	486	24.300	79.723	30.160	30.308	0.661	23.690	2.181	78.800
525	487	24.350	79.887	39.520	39.670	0.725	24.090	1.828	86.000
526	488	24.400	80.052	44.960	45.108	0.689	23.770	1.527	87.200
527	489	24.450	80.216	59.610	59.701	1.075	14.560	1.801	72.100
528	490	24.500	80.380	71.570	71.643	1.119	11.700	1.562	80.400
529	491	24.550	80.544	100.190	100.244	0.692	8.710	0.690	73.500
530	492	24.600	80.708	143.480	143.524	1.360	7.080	0.948	65.000
531	493	24.650	80.872	125.650	125.724	1.472	11.820	1.171	66.400
532	494	24.700	81.036	145.430	145.534	1.697	16.650	1.166	69.400
533	495	24.750	81.200	161.700	161.750	1.335	8.060	0.825	70.200
534	496	24.800	81.364	165.110	165.131	1.234	3.300	0.747	68.900
535	497	24.850	81.528	158.880	158.905	1.253	4.010	0.789	69.400
536	498	24.900	81.692	135.690	135.714	1.407	3.870	1.037	69.200
537	499	24.950	81.856	95.610	95.628	1.695	2.950	1.772	70.500
538	500	25.000	82.020	60.780	60.796	1.862	2.550	3.063	68.200
539	501	25.050	82.184	32.000	32.023	1.810	3.630	5.652	67.500
540	502	25.100	82.348	23.240	23.403	1.292	26.080	5.521	72.100
541	503	25.150	82.512	45.920	46.217	0.986	47.510	2.133	65.900
542	504	25.200	82.676	191.220	191.403	1.372	29.290	0.717	63.800
543	505	25.250	82.840	242.990	243.042	1.680	8.280	0.691	0.000
544	506	25.300	83.004	276.230	276.246	1.263	2.500	0.457	0.000
545	507	25.350	83.168	268.400	268.430	2.000	4.850	0.745	0.000
546	508	25.400	83.332	319.310	319.395	2.502	13.550	0.783	0.000
547	509	25.450	83.496	283.720	283.747	2.272	4.380	0.801	0.000
548	510	25.500	83.660	361.060	361.085	1.789	3.950	0.495	0.000
549	511	25.550	83.824	337.010	337.069	1.749	9.480	0.519	0.000
550	512	25.600	83.988	445.610	445.647	1.673	5.900	0.375	0.000
551	513	25.650	84.153	403.380	403.381	2.029	0.200	0.503	0.000
552	514	25.700	84.317	378.520	378.512	5.709	-1.250	1.508	0.000
553	515	25.750	84.481	401.520	401.521	3.787	0.190	0.943	0.000
554	516	25.800	84.645	382.070	382.081	3.296	1.730	0.863	0.000
555	517	25.850	84.809	356.450	356.676	4.542	36.180	1.273	0.000
556	518	25.900	84.973	380.150	380.778	0.000	100.530	0.000	0.000
557	519	25.950	85.137	322.690	323.346	0.000	105.150	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272410				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-13A				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			10:14				
15		CPT File:			15-53039_GP1D-13A.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722182.294				
31		Northing / Lat:			4294236.214				
32		Elevation:			158.460				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	23.110	23.127	0.017	2.720	0.074	31.300
40	2	0.100	0.328	37.170	37.205	0.064	5.670	0.172	34.700
41	3	0.150	0.492	40.030	40.053	0.135	3.730	0.337	49.300
42	4	0.200	0.656	80.890	80.898	0.198	1.360	0.245	54.500
43	5	0.250	0.820	29.310	29.357	0.369	7.550	1.257	64.000
44	6	0.300	0.984	25.890	25.906	0.502	2.620	1.938	72.800
45	7	0.350	1.148	26.100	26.103	0.510	0.420	1.954	67.100
46	8	0.400	1.312	36.610	36.603	0.533	-1.190	1.456	78.800
47	9	0.450	1.476	43.150	43.124	0.542	-4.190	1.257	84.300
48	10	0.500	1.640	47.300	47.252	0.439	-7.750	0.929	80.200
49	11	0.550	1.804	58.840	58.775	0.408	-10.440	0.694	86.600
50	12	0.600	1.968	58.620	58.609	0.454	-1.770	0.775	78.500
51	13	0.650	2.133	62.070	62.044	0.592	-4.140	0.954	98.900
52	14	0.700	2.297	58.340	58.314	0.685	-4.120	1.175	76.400
53	15	0.750	2.461	56.580	56.541	0.677	-6.250	1.197	74.400
54	16	0.800	2.625	51.760	51.724	0.705	-5.740	1.363	87.900
55	17	0.850	2.789	41.980	41.921	0.746	-9.390	1.780	84.300
56	18	0.900	2.953	32.210	32.132	0.801	-12.500	2.493	87.000
57	19	0.950	3.117	27.060	26.973	0.796	-13.880	2.951	91.700
58	20	1.000	3.281	29.200	29.115	0.787	-13.640	2.703	86.700
59	21	1.050	3.445	21.700	21.607	0.725	-14.850	3.355	90.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	19.350	19.255	0.679	-15.140	3.526	91.200
61	23	1.150	3.773	28.860	28.771	0.837	-14.200	2.909	73.400
62	24	1.200	3.937	43.130	43.048	0.958	-13.110	2.225	72.600
63	25	1.250	4.101	39.750	39.671	0.813	-12.670	2.049	68.200
64	26	1.300	4.265	31.530	31.442	0.510	-14.040	1.622	79.100
65	27	1.350	4.429	19.390	19.385	0.357	-0.770	1.842	63.800
66	28	1.400	4.593	17.110	17.104	0.324	-0.950	1.894	53.900
67	29	1.450	4.757	24.960	24.960	0.271	0.030	1.086	39.500
68	30	1.500	4.921	40.530	40.536	0.275	0.990	0.678	40.600
69	31	1.550	5.085	97.930	97.931	0.583	0.120	0.595	30.900
70	32	1.600	5.249	192.760	192.989	2.159	36.710	1.119	29.600
71	33	1.650	5.413	245.360	245.375	2.492	2.460	1.016	30.300
72	34	1.700	5.577	65.140	65.353	2.347	34.050	3.591	31.100
73	35	1.750	5.741	70.320	70.394	1.802	11.900	2.560	27.800
74	36	1.800	5.905	91.640	91.640	1.585	-0.060	1.730	29.600
75	37	1.850	6.069	47.340	47.487	1.687	23.570	3.553	32.000
76	38	1.900	6.234	53.310	53.394	1.746	13.500	3.270	40.600
77	39	1.950	6.398	28.360	28.394	1.295	5.410	4.561	27.400
78	40	2.000	6.562	15.930	15.938	1.058	1.310	6.638	42.900
79	41	2.050	6.726	25.150	25.165	0.547	2.390	2.174	44.300
80	42	2.100	6.890	12.010	12.035	0.509	3.940	4.229	54.500
81	43	2.150	7.054	12.340	12.367	0.400	4.330	3.234	74.700
82	44	2.200	7.218	20.250	20.289	0.397	6.300	1.957	72.300
83	45	2.250	7.382	20.190	20.153	0.489	-5.960	2.426	81.800
84	46	2.300	7.546	17.080	17.020	0.509	-9.620	2.991	83.900
85	47	2.350	7.710	16.300	16.233	0.477	-10.790	2.939	86.100
86	48	2.400	7.874	15.500	15.428	0.473	-11.540	3.066	83.600
87	49	2.450	8.038	15.330	15.258	0.509	-11.470	3.336	76.700
88	50	2.500	8.202	15.730	15.659	0.474	-11.310	3.027	65.100
89	51	2.550	8.366	21.890	21.837	0.596	-8.470	2.729	48.000
90	52	2.600	8.530	47.790	47.787	0.725	-0.500	1.517	49.300
91	53	2.650	8.694	40.030	40.029	1.042	-0.230	2.603	37.300
92	54	2.700	8.858	55.750	55.749	1.065	-0.110	1.910	33.200
93	55	2.750	9.022	25.630	25.617	1.106	-2.150	4.318	37.400
94	56	2.800	9.186	30.200	30.190	1.064	-1.560	3.524	38.900
95	57	2.850	9.350	27.180	27.189	0.820	1.370	3.016	50.300
96	58	2.900	9.514	29.460	29.488	1.016	4.420	3.446	51.600
97	59	2.950	9.678	25.960	25.956	1.002	-0.710	3.860	55.100
98	60	3.000	9.842	19.810	19.806	0.857	-0.690	4.327	58.700
99	61	3.050	10.006	15.580	15.596	0.650	2.570	4.168	54.600
100	62	3.100	10.170	11.850	11.853	0.571	0.460	4.817	54.500
101	63	3.150	10.335	9.570	9.582	0.498	1.970	5.197	40.100
102	64	3.200	10.499	17.200	17.250	0.436	7.940	2.528	48.100
103	65	3.250	10.663	41.400	41.441	0.562	6.490	1.356	25.300
104	66	3.300	10.827	44.550	44.551	0.750	0.240	1.683	24.500
105	67	3.350	10.991	33.160	33.144	0.817	-2.510	2.465	23.800
106	68	3.400	11.155	38.030	38.020	0.535	-1.570	1.407	28.900
107	69	3.450	11.319	46.200	46.200	0.781	0.060	1.690	27.400
108	70	3.500	11.483	40.750	40.748	0.837	-0.400	2.054	23.000
109	71	3.550	11.647	36.510	36.509	0.916	-0.170	2.509	12.400
110	72	3.600	11.811	21.620	21.622	0.708	0.270	3.274	17.100
111	73	3.650	11.975	37.570	37.595	0.841	4.080	2.237	17.900
112	74	3.700	12.139	28.600	28.611	0.452	1.790	1.580	21.900
113	75	3.750	12.303	62.520	62.555	0.895	5.570	1.431	26.200
114	76	3.800	12.467	134.490	134.517	1.175	4.390	0.873	17.200
115	77	3.850	12.631	63.870	63.915	1.672	7.210	2.616	20.300
116	78	3.900	12.795	74.880	74.889	1.727	1.380	2.306	17.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	70.230	70.247	1.477	2.670	2.103	0.000
118	80	4.000	13.123	74.360	74.365	1.609	0.820	2.164	0.000
119	81	4.050	13.287	34.650	34.686	1.104	5.690	3.183	0.000
120	82	4.100	13.451	41.580	41.578	0.930	-0.380	2.237	0.000
121	83	4.150	13.615	57.840	57.886	0.723	7.370	1.249	0.000
122	84	4.200	13.779	41.310	41.334	1.073	3.860	2.596	0.000
123	85	4.250	13.943	27.780	27.797	1.452	2.720	5.224	0.000
124	86	4.300	14.107	43.070	43.099	1.111	4.640	2.578	0.000
125	87	4.350	14.271	54.370	54.396	0.832	4.210	1.530	0.000
126	88	4.400	14.436	16.110	16.114	0.772	0.580	4.791	0.000
127	89	4.450	14.600	15.790	15.798	0.677	1.210	4.285	0.000
128	90	4.500	14.764	28.980	28.977	0.601	-0.450	2.074	0.000
129	91	4.550	14.928	17.340	17.391	0.831	8.140	4.778	0.000
130	92	4.600	15.092	19.620	19.637	0.200	2.770	1.018	0.000
131	93	4.650	15.256	212.210	212.171	0.000	-6.220	0.000	0.000
132	94	4.700	15.420	758.790	758.811	0.000	3.320	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272412				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-13B				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			10:56				
15		CPT File:			15-53039_GP1D-13B.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722180.648				
31		Northing / Lat:			4294236.062				
32		Elevation:			158.520				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	23.730	23.736	0.012	0.950	0.051	0.000
40	2	0.100	0.328	40.890	40.912	0.160	3.580	0.391	0.000
41	3	0.150	0.492	47.900	47.924	0.213	3.830	0.444	0.000
42	4	0.200	0.656	40.870	40.895	0.381	4.010	0.932	0.000
43	5	0.250	0.820	36.280	36.296	0.522	2.600	1.438	0.000
44	6	0.300	0.984	30.090	30.108	0.611	2.850	2.029	0.000
45	7	0.350	1.148	56.210	56.166	0.692	-7.040	1.232	0.000
46	8	0.400	1.312	54.000	53.950	0.727	-8.000	1.348	0.000
47	9	0.450	1.476	62.020	61.959	0.673	-9.700	1.086	0.000
48	10	0.500	1.640	66.670	66.596	0.641	-11.860	0.963	0.000
49	11	0.550	1.804	68.100	68.042	0.793	-9.350	1.165	0.000
50	12	0.600	1.968	59.040	58.978	0.894	-9.860	1.516	0.000
51	13	0.650	2.133	55.530	55.463	0.854	-10.790	1.540	0.000
52	14	0.700	2.297	50.490	50.411	0.846	-12.600	1.678	0.000
53	15	0.750	2.461	43.630	43.553	0.838	-12.370	1.924	0.000
54	16	0.800	2.625	39.900	39.819	0.727	-12.900	1.826	0.000
55	17	0.850	2.789	41.520	41.432	0.609	-14.050	1.470	0.000
56	18	0.900	2.953	36.520	36.418	0.624	-16.380	1.713	0.000
57	19	0.950	3.117	28.160	28.065	0.648	-15.180	2.309	0.000
58	20	1.000	3.281	32.170	32.075	0.610	-15.210	1.902	0.000
59	21	1.050	3.445	23.810	23.710	0.600	-16.030	2.531	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	14.840	14.737	0.534	-16.420	3.623	0.000
61	23	1.150	3.773	15.660	15.562	0.600	-15.770	3.856	0.000
62	24	1.200	3.937	29.830	29.737	0.509	-14.940	1.712	0.000
63	25	1.250	4.101	35.840	35.753	0.464	-13.910	1.298	0.000
64	26	1.300	4.265	34.960	34.938	0.378	-3.540	1.082	0.000
65	27	1.350	4.429	26.830	26.820	0.396	-1.530	1.476	0.000
66	28	1.400	4.593	21.020	21.020	0.345	-0.060	1.641	0.000
67	29	1.450	4.757	50.000	49.988	0.508	-1.990	1.016	0.000
68	30	1.500	4.921	65.680	65.693	0.845	2.130	1.286	0.000
69	31	1.550	5.085	72.690	72.739	0.809	7.850	1.112	0.000
70	32	1.600	5.249	63.080	63.095	1.063	2.480	1.685	0.000
71	33	1.650	5.413	24.500	24.549	0.913	7.890	3.719	0.000
72	34	1.700	5.577	22.110	22.173	0.872	10.120	3.933	0.000
73	35	1.750	5.741	60.800	60.821	0.995	3.320	1.636	0.000
74	36	1.800	5.905	70.970	71.213	1.149	38.940	1.613	36.000
75	37	1.850	6.069	26.100	26.162	1.201	9.990	4.591	38.700
76	38	1.900	6.234	19.220	19.242	0.789	3.580	4.100	51.400
77	39	1.950	6.398	18.690	18.731	0.537	6.630	2.867	54.700
78	40	2.000	6.562	16.070	16.167	0.418	15.590	2.585	69.100
79	41	2.050	6.726	25.830	25.877	0.415	7.500	1.604	74.200
80	42	2.100	6.890	25.900	25.812	0.557	-14.080	2.158	82.200
81	43	2.150	7.054	23.070	22.976	0.641	-15.050	2.790	99.400
82	44	2.200	7.218	26.700	26.602	0.633	-15.740	2.380	88.700
83	45	2.250	7.382	27.920	27.819	0.660	-16.220	2.373	85.600
84	46	2.300	7.546	27.330	27.225	0.715	-16.870	2.626	78.600
85	47	2.350	7.710	24.340	24.232	0.740	-17.350	3.054	77.100
86	48	2.400	7.874	20.810	20.698	0.741	-17.900	3.580	65.500
87	49	2.450	8.038	24.460	24.348	0.488	-17.950	2.004	55.500
88	50	2.500	8.202	40.920	40.907	0.665	-2.130	1.626	47.100
89	51	2.550	8.366	23.340	23.344	0.709	0.720	3.037	40.200
90	52	2.600	8.530	15.120	15.107	0.705	-2.010	4.667	33.400
91	53	2.650	8.694	24.650	24.655	0.486	0.830	1.971	33.900
92	54	2.700	8.858	12.520	12.569	0.462	7.770	3.676	42.700
93	55	2.750	9.022	16.730	16.760	0.532	4.860	3.174	46.200
94	56	2.800	9.186	27.730	27.781	0.580	8.210	2.088	59.600
95	57	2.850	9.350	31.180	31.175	0.611	-0.810	1.960	58.100
96	58	2.900	9.514	23.940	23.903	0.692	-5.850	2.895	67.600
97	59	2.950	9.678	17.730	17.685	0.773	-7.170	4.371	71.900
98	60	3.000	9.842	21.020	20.982	0.983	-6.110	4.685	69.900
99	61	3.050	10.006	55.190	55.159	1.199	-4.960	2.174	72.900
100	62	3.100	10.170	81.920	81.913	1.251	-1.120	1.527	49.600
101	63	3.150	10.335	64.590	64.592	1.969	0.310	3.048	43.800
102	64	3.200	10.499	75.190	75.202	2.076	1.990	2.761	44.000
103	65	3.250	10.663	42.250	42.269	1.627	3.090	3.849	37.600
104	66	3.300	10.827	22.800	22.833	1.762	5.360	7.717	31.700
105	67	3.350	10.991	40.660	40.681	1.283	3.410	3.154	28.300
106	68	3.400	11.155	44.000	44.020	1.444	3.180	3.280	35.000
107	69	3.450	11.319	35.820	35.871	1.156	8.140	3.223	30.900
108	70	3.500	11.483	51.040	51.087	1.638	7.450	3.206	33.700
109	71	3.550	11.647	58.680	58.695	1.251	2.350	2.131	35.500
110	72	3.600	11.811	30.300	30.307	1.164	1.100	3.841	28.800
111	73	3.650	11.975	42.410	42.428	0.908	2.840	2.140	26.400
112	74	3.700	12.139	40.190	40.217	1.168	4.380	2.904	22.800
113	75	3.750	12.303	124.840	124.879	1.353	6.180	1.083	27.300
114	76	3.800	12.467	88.110	88.200	1.608	14.430	1.823	25.000
115	77	3.850	12.631	89.160	89.199	1.583	6.280	1.775	25.400
116	78	3.900	12.795	47.630	47.697	1.280	10.750	2.684	22.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	49.870	49.916	1.119	7.310	2.242	22.200
118	80	4.000	13.123	74.400	74.445	0.995	7.180	1.337	26.700
119	81	4.050	13.287	52.790	52.892	1.044	16.400	1.974	23.700
120	82	4.100	13.451	59.550	59.619	1.182	11.000	1.983	19.000
121	83	4.150	13.615	60.730	60.807	1.141	12.340	1.876	26.600
122	84	4.200	13.779	58.050	58.108	1.092	9.220	1.879	27.500
123	85	4.250	13.943	42.490	42.558	1.111	10.910	2.611	26.300
124	86	4.300	14.107	34.240	34.285	1.004	7.240	2.928	31.900
125	87	4.350	14.271	58.500	58.520	0.775	3.180	1.324	27.400
126	88	4.400	14.436	58.950	58.985	1.148	5.530	1.946	20.500
127	89	4.450	14.600	88.880	88.904	1.300	3.900	1.462	23.400
128	90	4.500	14.764	48.170	48.181	1.043	1.810	2.165	31.200
129	91	4.550	14.928	91.790	91.827	0.590	5.860	0.643	26.200
130	92	4.600	15.092	82.460	82.511	0.619	8.150	0.750	26.000
131	93	4.650	15.256	74.330	74.360	0.952	4.780	1.280	30.400
132	94	4.700	15.420	117.500	117.539	1.231	6.310	1.047	27.400
133	95	4.750	15.584	71.420	71.432	1.056	1.990	1.478	30.700
134	96	4.800	15.748	17.950	17.939	0.837	-1.740	4.666	39.300
135	97	4.850	15.912	32.340	32.349	0.446	1.420	1.379	44.600
136	98	4.900	16.076	20.540	20.526	0.391	-2.240	1.905	47.300
137	99	4.950	16.240	20.250	20.260	0.571	1.590	2.818	46.700
138	100	5.000	16.404	38.650	38.660	0.555	1.650	1.436	38.400
139	101	5.050	16.568	47.830	47.864	0.671	5.380	1.402	29.700
140	102	5.100	16.732	48.200	48.271	1.076	11.310	2.229	31.000
141	103	5.150	16.896	55.240	55.272	1.095	5.110	1.981	28.300
142	104	5.200	17.060	59.950	60.075	1.101	20.030	1.833	34.400
143	105	5.250	17.224	48.200	48.296	1.125	15.380	2.329	29.900
144	106	5.300	17.388	76.580	76.628	1.369	7.740	1.787	25.300
145	107	5.350	17.552	75.770	75.818	0.981	7.640	1.294	25.700
146	108	5.400	17.716	87.690	87.693	0.697	0.440	0.795	29.100
147	109	5.450	17.880	44.370	44.362	0.684	-1.270	1.542	32.700
148	110	5.500	18.044	29.140	29.163	0.588	3.760	2.016	33.000
149	111	5.550	18.208	28.500	28.565	0.846	10.470	2.962	35.300
150	112	5.600	18.372	47.980	47.971	0.945	-1.370	1.970	36.600
151	113	5.650	18.537	27.120	27.131	1.025	1.820	3.778	32.100
152	114	5.700	18.701	42.880	42.882	0.851	0.380	1.984	35.900
153	115	5.750	18.865	65.280	65.388	1.076	17.350	1.646	37.500
154	116	5.800	19.029	36.350	36.370	1.389	3.280	3.819	39.100
155	117	5.850	19.193	41.770	41.921	1.049	24.260	2.502	43.100
156	118	5.900	19.357	54.440	54.632	1.489	30.820	2.725	37.700
157	119	5.950	19.521	74.650	74.662	1.902	2.000	2.547	28.600
158	120	6.000	19.685	53.400	53.527	1.892	20.410	3.535	33.000
159	121	6.050	19.849	72.750	72.886	1.618	21.730	2.220	21.900
160	122	6.100	20.013	88.120	88.220	1.582	15.950	1.793	22.300
161	123	6.150	20.177	66.810	66.801	1.703	-1.490	2.549	15.200
162	124	6.200	20.341	72.340	72.338	1.496	-0.330	2.068	17.800
163	125	6.250	20.505	59.810	59.856	1.691	7.300	2.825	15.900
164	126	6.300	20.669	59.730	59.814	1.214	13.460	2.030	22.800
165	127	6.350	20.833	40.700	40.780	1.140	12.750	2.796	15.900
166	128	6.400	20.997	57.340	57.470	1.013	20.860	1.763	14.300
167	129	6.450	21.161	101.260	101.303	0.839	6.840	0.828	10.800
168	130	6.500	21.325	77.340	77.420	1.388	12.880	1.793	12.500
169	131	6.550	21.489	78.500	78.557	0.942	9.180	1.199	13.200
170	132	6.600	21.653	69.820	69.978	1.464	25.290	2.092	15.600
171	133	6.650	21.817	81.960	81.950	1.610	-1.650	1.965	14.600
172	134	6.700	21.981	59.990	60.079	1.573	14.270	2.618	20.600
173	135	6.750	22.145	77.690	77.832	1.390	22.700	1.786	24.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	118.350	118.404	1.654	8.610	1.397	19.200
175	137	6.850	22.473	99.560	99.581	2.308	3.410	2.318	24.100
176	138	6.900	22.638	97.180	97.293	2.949	18.120	3.031	24.100
177	139	6.950	22.802	76.340	76.660	2.645	51.290	3.450	21.400
178	140	7.000	22.966	122.900	122.953	2.636	8.510	2.144	23.700
179	141	7.050	23.130	108.050	108.059	1.292	1.430	1.196	25.000
180	142	7.100	23.294	54.730	54.764	1.701	5.460	3.106	17.400
181	143	7.150	23.458	79.260	79.284	1.541	3.830	1.944	18.900
182	144	7.200	23.622	74.150	74.268	1.521	18.960	2.048	16.100
183	145	7.250	23.786	135.260	135.378	1.955	18.960	1.444	13.700
184	146	7.300	23.950	139.880	140.014	2.176	21.480	1.554	18.600
185	147	7.350	24.114	149.470	149.556	2.232	13.850	1.492	12.900
186	148	7.400	24.278	72.690	72.683	2.044	-1.200	2.812	14.200
187	149	7.450	24.442	85.920	85.974	1.440	8.720	1.675	12.400
188	150	7.500	24.606	141.910	141.937	1.543	4.400	1.087	14.900
189	151	7.550	24.770	112.760	112.834	1.336	11.810	1.184	12.600
190	152	7.600	24.934	91.350	91.607	1.335	41.150	1.457	14.900
191	153	7.650	25.098	104.350	104.456	1.120	17.040	1.072	15.200
192	154	7.700	25.262	105.210	105.365	1.135	24.790	1.077	15.200
193	155	7.750	25.426	52.400	52.431	1.342	4.900	2.560	14.200
194	156	7.800	25.590	54.040	54.066	1.083	4.130	2.003	14.100
195	157	7.850	25.754	55.730	55.799	0.854	11.090	1.530	10.700
196	158	7.900	25.918	64.620	64.662	1.136	6.740	1.757	22.600
197	159	7.950	26.082	73.880	73.926	0.900	7.340	1.217	16.100
198	160	8.000	26.246	60.930	60.965	0.884	5.580	1.450	19.000
199	161	8.050	26.410	61.240	61.281	0.839	6.630	1.369	18.200
200	162	8.100	26.574	70.750	70.785	1.155	5.540	1.632	28.500
201	163	8.150	26.739	67.610	67.635	1.100	4.040	1.626	20.600
202	164	8.200	26.903	97.020	97.058	1.206	6.090	1.243	23.300
203	165	8.250	27.067	108.810	108.831	1.380	3.390	1.268	26.300
204	166	8.300	27.231	70.310	70.401	1.458	14.570	2.071	29.700
205	167	8.350	27.395	92.960	93.003	1.171	6.850	1.259	21.900
206	168	8.400	27.559	109.200	109.233	0.995	5.340	0.911	19.600
207	169	8.450	27.723	51.880	51.909	0.857	4.720	1.651	15.500
208	170	8.500	27.887	44.380	44.538	0.996	25.270	2.236	16.800
209	171	8.550	28.051	54.680	54.737	0.891	9.130	1.628	22.500
210	172	8.600	28.215	77.500	77.569	1.120	11.030	1.444	12.400
211	173	8.650	28.379	114.890	114.949	1.430	9.500	1.244	11.800
212	174	8.700	28.543	144.160	146.024	1.752	298.630	1.200	14.600
213	175	8.750	28.707	85.250	85.344	1.897	15.040	2.223	14.600
214	176	8.800	28.871	76.790	76.855	1.531	10.490	1.992	13.000
215	177	8.850	29.035	92.790	92.843	1.667	8.510	1.796	10.600
216	178	8.900	29.199	99.750	99.777	1.341	4.260	1.344	14.800
217	179	8.950	29.363	62.840	62.905	1.242	10.400	1.974	13.000
218	180	9.000	29.527	93.790	93.855	1.229	10.420	1.309	11.600
219	181	9.050	29.691	70.590	70.605	1.712	2.440	2.425	19.200
220	182	9.100	29.855	100.090	100.113	1.587	3.670	1.585	11.500
221	183	9.150	30.019	105.800	105.837	1.677	5.870	1.585	13.100
222	184	9.200	30.183	124.610	124.628	1.099	2.910	0.882	14.400
223	185	9.250	30.347	89.640	89.777	1.336	22.020	1.488	16.400
224	186	9.300	30.511	113.110	113.212	1.181	16.300	1.043	15.500
225	187	9.350	30.675	69.910	69.995	1.105	13.540	1.579	15.800
226	188	9.400	30.840	59.780	59.832	1.447	8.310	2.418	16.300
227	189	9.450	31.004	89.730	89.759	0.928	4.570	1.034	20.300
228	190	9.500	31.168	97.310	97.363	0.964	8.470	0.990	17.500
229	191	9.550	31.332	81.660	81.693	1.060	5.210	1.298	19.400
230	192	9.600	31.496	77.750	77.763	1.181	2.040	1.519	24.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	56.630	56.652	1.258	3.500	2.221	20.200
232	194	9.700	31.824	60.470	60.524	0.874	8.570	1.444	25.000
233	195	9.750	31.988	57.120	57.164	1.224	7.040	2.141	28.200
234	196	9.800	32.152	97.600	97.619	1.602	3.030	1.641	22.900
235	197	9.850	32.316	50.370	50.383	1.220	2.020	2.421	24.700
236	198	9.900	32.480	45.620	45.718	0.972	15.750	2.126	19.000
237	199	9.950	32.644	53.300	53.406	1.070	16.990	2.004	18.600
238	200	10.000	32.808	65.220	65.282	1.589	9.950	2.434	19.600
239	201	10.050	32.972	88.470	88.565	1.317	15.290	1.487	22.700
240	202	10.100	33.136	109.860	109.909	0.818	7.920	0.744	0.000
241	203	10.150	33.300	62.890	62.982	1.591	14.680	2.526	0.000
242	204	10.200	33.464	83.830	83.882	1.661	8.300	1.980	0.000
243	205	10.250	33.628	62.360	62.499	1.208	22.280	1.933	0.000
244	206	10.300	33.792	72.190	72.234	1.311	7.000	1.815	0.000
245	207	10.350	33.956	40.590	40.597	0.911	1.060	2.244	0.000
246	208	10.400	34.120	33.180	33.225	1.069	7.260	3.217	0.000
247	209	10.450	34.284	58.060	58.152	1.641	14.660	2.822	0.000
248	210	10.500	34.448	80.000	80.069	1.527	11.130	1.907	0.000
249	211	10.550	34.612	102.940	103.121	1.524	28.970	1.478	0.000
250	212	10.600	34.776	79.850	79.866	1.556	2.620	1.948	0.000
251	213	10.650	34.941	74.920	74.965	2.804	7.180	3.740	0.000
252	214	10.700	35.105	75.450	76.199	3.220	120.000	4.226	0.000
253	215	10.750	35.269	264.990	265.121	5.501	20.960	2.075	0.000
254	216	10.800	35.433	310.060	310.147	0.000	13.900	0.000	0.000
255	217	10.850	35.597	461.420	461.599	0.000	28.600	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272409				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-13				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			08:22				
15		CPT File:			15-53039_GP1D-13.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722184.650				
31		Northing / Lat:			4294236.242				
32		Elevation:			158.460				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	33.490	33.529	0.039	6.290	0.116	28.400
40	2	0.100	0.328	43.620	43.653	0.139	5.280	0.318	30.300
41	3	0.150	0.492	48.350	48.386	0.175	5.780	0.362	31.500
42	4	0.200	0.656	66.360	66.368	0.273	1.340	0.411	45.700
43	5	0.250	0.820	29.580	29.685	0.372	16.770	1.253	68.200
44	6	0.300	0.984	31.140	31.188	0.469	7.690	1.504	61.700
45	7	0.350	1.148	25.640	25.656	0.528	2.500	2.058	78.900
46	8	0.400	1.312	25.010	25.008	0.594	-0.390	2.375	78.500
47	9	0.450	1.476	31.070	31.095	0.596	3.960	1.917	82.100
48	10	0.500	1.640	43.690	43.706	0.558	2.540	1.277	91.600
49	11	0.550	1.804	57.130	57.087	0.602	-6.880	1.055	91.200
50	12	0.600	1.968	59.460	59.456	0.708	-0.700	1.191	92.800
51	13	0.650	2.133	60.870	60.848	0.827	-3.560	1.359	85.400
52	14	0.700	2.297	53.540	53.503	0.914	-5.930	1.708	76.500
53	15	0.750	2.461	49.300	49.247	0.883	-8.520	1.793	88.100
54	16	0.800	2.625	50.940	50.881	0.865	-9.460	1.700	94.500
55	17	0.850	2.789	50.710	50.636	0.874	-11.840	1.726	91.600
56	18	0.900	2.953	49.510	49.426	0.883	-13.460	1.787	80.000
57	19	0.950	3.117	46.650	46.552	0.848	-15.640	1.822	87.600
58	20	1.000	3.281	38.710	38.601	0.867	-17.420	2.246	93.400
59	21	1.050	3.445	33.930	33.817	0.868	-18.100	2.567	95.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	29.910	29.794	0.848	-18.620	2.846	85.400
61	23	1.150	3.773	24.200	24.084	0.858	-18.660	3.563	94.500
62	24	1.200	3.937	34.750	34.643	0.936	-17.060	2.702	95.700
63	25	1.250	4.101	62.580	62.482	1.031	-15.720	1.650	89.500
64	26	1.300	4.265	63.370	63.270	1.017	-16.030	1.607	79.100
65	27	1.350	4.429	51.620	51.512	0.719	-17.250	1.396	83.300
66	28	1.400	4.593	38.730	38.618	0.748	-18.000	1.937	71.000
67	29	1.450	4.757	35.180	35.171	0.605	-1.460	1.720	47.100
68	30	1.500	4.921	35.140	35.142	0.566	0.300	1.611	44.300
69	31	1.550	5.085	26.150	26.153	0.439	0.510	1.679	35.700
70	32	1.600	5.249	18.290	18.286	0.419	-0.620	2.291	27.400
71	33	1.650	5.413	22.030	22.035	0.323	0.810	1.466	34.100
72	34	1.700	5.577	31.250	31.252	0.495	0.310	1.584	21.600
73	35	1.750	5.741	38.950	38.957	0.516	1.080	1.325	25.800
74	36	1.800	5.905	22.150	22.131	0.512	-3.110	2.314	25.700
75	37	1.850	6.069	18.140	18.153	0.546	2.130	3.008	30.400
76	38	1.900	6.234	18.610	18.611	0.468	0.200	2.515	28.400
77	39	1.950	6.398	15.690	15.694	0.371	0.650	2.364	31.000
78	40	2.000	6.562	11.940	11.927	0.408	-2.070	3.421	35.300
79	41	2.050	6.726	16.130	16.127	0.285	-0.560	1.767	31.600
80	42	2.100	6.890	28.760	28.757	0.276	-0.450	0.960	39.700
81	43	2.150	7.054	73.110	73.117	0.769	1.100	1.052	64.600
82	44	2.200	7.218	72.040	72.424	0.817	61.470	1.128	63.200
83	45	2.250	7.382	39.680	39.750	0.815	11.240	2.050	69.200
84	46	2.300	7.546	34.110	34.081	0.367	-4.670	1.077	74.600
85	47	2.350	7.710	23.680	23.648	0.383	-5.070	1.620	82.000
86	48	2.400	7.874	18.320	18.306	0.446	-2.230	2.436	82.100
87	49	2.450	8.038	16.660	16.654	0.497	-1.040	2.984	88.800
88	50	2.500	8.202	15.620	15.617	0.428	-0.530	2.741	78.200
89	51	2.550	8.366	16.270	16.261	0.374	-1.430	2.300	71.800
90	52	2.600	8.530	24.920	24.913	0.585	-1.110	2.348	72.500
91	53	2.650	8.694	19.890	19.932	0.519	6.750	2.604	66.100
92	54	2.700	8.858	17.450	17.472	0.742	3.540	4.247	54.600
93	55	2.750	9.022	54.190	54.212	0.825	3.600	1.522	51.100
94	56	2.800	9.186	33.230	33.287	0.917	9.100	2.755	51.500
95	57	2.850	9.350	22.600	22.635	0.809	5.560	3.574	58.900
96	58	2.900	9.514	23.400	23.661	0.756	41.770	3.195	64.100
97	59	2.950	9.678	22.940	23.037	0.736	15.490	3.195	75.800
98	60	3.000	9.842	22.400	22.451	0.775	8.160	3.452	74.200
99	61	3.050	10.006	22.460	22.477	0.755	2.780	3.359	67.500
100	62	3.100	10.170	22.800	22.784	0.770	-2.630	3.380	80.100
101	63	3.150	10.335	24.080	24.053	0.791	-4.300	3.289	71.000
102	64	3.200	10.499	22.560	22.523	0.774	-5.890	3.436	69.000
103	65	3.250	10.663	22.520	22.477	0.673	-6.810	2.994	61.000
104	66	3.300	10.827	21.500	21.457	0.553	-6.850	2.577	46.500
105	67	3.350	10.991	21.210	21.206	0.519	-0.610	2.447	40.900
106	68	3.400	11.155	26.040	26.057	0.535	2.720	2.053	28.300
107	69	3.450	11.319	22.670	22.729	0.682	9.400	3.001	33.000
108	70	3.500	11.483	26.910	26.899	0.610	-1.720	2.268	22.900
109	71	3.550	11.647	26.710	26.702	0.610	-1.220	2.284	23.800
110	72	3.600	11.811	49.140	49.134	0.525	-0.890	1.068	24.900
111	73	3.650	11.975	60.370	60.371	0.624	0.100	1.034	26.200
112	74	3.700	12.139	31.040	31.036	0.776	-0.580	2.500	22.800
113	75	3.750	12.303	52.570	52.585	1.120	2.480	2.130	21.600
114	76	3.800	12.467	66.770	66.799	1.717	4.580	2.570	26.800
115	77	3.850	12.631	41.700	41.689	1.373	-1.820	3.293	24.500
116	78	3.900	12.795	24.010	24.030	0.801	3.160	3.333	26.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	51.410	51.404	0.628	-1.040	1.222	35.000
118	80	4.000	13.123	86.220	86.343	0.665	19.770	0.770	44.200
119	81	4.050	13.287	21.600	21.632	0.756	5.180	3.495	59.400
120	82	4.100	13.451	22.510	22.534	0.561	3.860	2.490	61.700
121	83	4.150	13.615	19.210	19.193	0.660	-2.690	3.439	62.000
122	84	4.200	13.779	18.920	18.914	0.709	-0.950	3.749	48.900
123	85	4.250	13.943	52.640	52.629	1.000	-1.770	1.900	35.400
124	86	4.300	14.107	47.560	47.567	1.459	1.050	3.067	25.700
125	87	4.350	14.271	17.930	17.934	1.115	0.660	6.217	27.300
126	88	4.400	14.436	43.280	43.292	0.644	1.890	1.488	21.600
127	89	4.450	14.600	20.070	20.079	0.669	1.430	3.332	21.500
128	90	4.500	14.764	38.380	38.383	0.472	0.460	1.230	18.100
129	91	4.550	14.928	25.920	25.929	0.396	1.370	1.527	20.100
130	92	4.600	15.092	20.520	20.521	0.422	0.240	2.056	18.500
131	93	4.650	15.256	13.880	13.907	0.383	4.260	2.754	15.000
132	94	4.700	15.420	29.430	29.420	0.623	-1.640	2.118	14.200
133	95	4.750	15.584	33.330	33.383	0.589	8.540	1.764	21.800
134	96	4.800	15.748	34.140	34.148	0.848	1.350	2.483	14.900
135	97	4.850	15.912	42.270	42.266	0.712	-0.680	1.685	15.500
136	98	4.900	16.076	32.750	32.725	0.697	-3.950	2.130	11.800
137	99	4.950	16.240	25.080	25.104	0.533	3.830	2.123	13.400
138	100	5.000	16.404	47.260	47.294	0.747	5.380	1.579	22.600
139	101	5.050	16.568	37.310	37.312	0.872	0.280	2.337	13.900
140	102	5.100	16.732	40.600	40.633	0.870	5.310	2.141	12.300
141	103	5.150	16.896	18.290	18.292	0.884	0.260	4.833	19.500
142	104	5.200	17.060	42.160	42.143	0.912	-2.790	2.164	26.700
143	105	5.250	17.224	21.010	21.042	1.025	5.070	4.871	35.900
144	106	5.300	17.388	24.730	24.759	0.959	4.650	3.873	33.300
145	107	5.350	17.552	30.770	30.794	0.917	3.880	2.978	37.200
146	108	5.400	17.716	31.220	31.257	1.036	5.950	3.314	29.700
147	109	5.450	17.880	62.200	62.224	1.342	3.910	2.157	29.900
148	110	5.500	18.044	41.030	41.059	1.097	4.700	2.672	21.300
149	111	5.550	18.208	34.990	35.006	1.126	2.590	3.217	23.700
150	112	5.600	18.372	46.920	47.079	1.014	25.430	2.154	28.900
151	113	5.650	18.537	31.790	31.833	1.046	6.960	3.286	29.100
152	114	5.700	18.701	26.630	26.695	1.056	10.390	3.956	37.800
153	115	5.750	18.865	32.890	33.035	1.150	23.220	3.481	30.900
154	116	5.800	19.029	34.930	35.039	1.276	17.440	3.642	28.200
155	117	5.850	19.193	53.520	53.604	1.503	13.430	2.804	21.000
156	118	5.900	19.357	75.890	76.541	1.214	104.330	1.586	17.900
157	119	5.950	19.521	65.230	65.231	1.129	0.160	1.731	17.000
158	120	6.000	19.685	78.230	78.280	0.971	7.930	1.240	23.500
159	121	6.050	19.849	75.800	75.822	1.203	3.590	1.587	17.000
160	122	6.100	20.013	52.310	52.312	1.061	0.290	2.028	21.600
161	123	6.150	20.177	49.940	49.993	1.028	8.460	2.056	16.900
162	124	6.200	20.341	44.950	44.959	1.545	1.500	3.436	15.300
163	125	6.250	20.505	73.750	73.748	2.798	-0.300	3.794	9.700
164	126	6.300	20.669	153.120	153.259	2.654	22.330	1.732	16.900
165	127	6.350	20.833	206.930	207.030	2.100	16.030	1.014	6.700
166	128	6.400	20.997	162.990	163.135	1.196	23.260	0.733	11.300
167	129	6.450	21.161	136.500	136.560	0.363	9.630	0.266	13.800
168	130	6.500	21.325	80.880	80.904	0.605	3.850	0.748	16.300
169	131	6.550	21.489	72.030	72.038	0.732	1.260	1.016	11.100
170	132	6.600	21.653	73.180	73.184	0.739	0.650	1.010	9.300
171	133	6.650	21.817	71.010	71.024	0.783	2.220	1.102	11.400
172	134	6.700	21.981	57.670	57.679	0.709	1.430	1.229	10.800
173	135	6.750	22.145	58.620	58.622	0.748	0.300	1.276	12.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	52.470	52.474	0.607	0.650	1.157	8.200
175	137	6.850	22.473	36.510	36.508	0.460	-0.280	1.260	10.100
176	138	6.900	22.638	47.860	47.854	0.658	-0.920	1.375	14.400
177	139	6.950	22.802	67.340	67.337	0.530	-0.470	0.787	11.400
178	140	7.000	22.966	79.310	79.314	0.572	0.620	0.721	12.800
179	141	7.050	23.130	73.840	73.848	0.645	1.210	0.873	15.000
180	142	7.100	23.294	44.260	44.264	0.638	0.580	1.441	11.800
181	143	7.150	23.458	34.480	34.483	0.946	0.450	2.743	16.500
182	144	7.200	23.622	45.000	44.997	0.704	-0.410	1.565	16.300
183	145	7.250	23.786	63.730	63.712	0.670	-2.870	1.052	14.300
184	146	7.300	23.950	127.200	127.175	1.199	-4.040	0.943	13.600
185	147	7.350	24.114	105.450	105.474	1.244	3.790	1.179	17.200
186	148	7.400	24.278	92.280	92.360	1.358	12.880	1.470	20.100
187	149	7.450	24.442	60.810	60.812	1.212	0.340	1.993	32.900
188	150	7.500	24.606	62.820	62.849	1.220	4.580	1.941	31.800
189	151	7.550	24.770	64.110	64.124	1.054	2.290	1.644	34.600
190	152	7.600	24.934	81.270	81.266	1.213	-0.600	1.493	28.800
191	153	7.650	25.098	70.150	70.154	1.007	0.700	1.435	24.200
192	154	7.700	25.262	47.800	47.828	0.785	4.460	1.641	25.600
193	155	7.750	25.426	48.370	48.394	0.737	3.880	1.523	33.700
194	156	7.800	25.590	38.530	38.549	0.795	3.080	2.062	24.100
195	157	7.850	25.754	22.600	22.609	0.876	1.380	3.875	24.200
196	158	7.900	25.918	26.640	26.680	0.699	6.350	2.620	28.400
197	159	7.950	26.082	44.710	44.737	1.246	4.370	2.785	30.200
198	160	8.000	26.246	62.720	62.743	1.825	3.620	2.909	37.800
199	161	8.050	26.410	106.190	106.227	2.082	5.900	1.960	30.200
200	162	8.100	26.574	145.470	145.479	2.454	1.490	1.687	40.600
201	163	8.150	26.739	110.820	110.819	2.642	-0.210	2.384	35.400
202	164	8.200	26.903	97.680	97.688	2.074	1.340	2.123	31.500
203	165	8.250	27.067	132.750	132.745	1.810	-0.780	1.364	21.100
204	166	8.300	27.231	51.170	51.168	1.768	-0.320	3.455	26.800
205	167	8.350	27.395	81.860	81.874	1.760	2.260	2.150	26.700
206	168	8.400	27.559	132.610	132.646	1.303	5.780	0.982	28.200
207	169	8.450	27.723	108.930	108.958	1.905	4.460	1.748	17.300
208	170	8.500	27.887	91.510	91.537	1.684	4.390	1.840	12.200
209	171	8.550	28.051	62.240	62.291	1.407	8.140	2.259	18.000
210	172	8.600	28.215	43.790	43.840	0.869	8.040	1.982	12.800
211	173	8.650	28.379	67.690	67.718	1.259	4.530	1.859	10.300
212	174	8.700	28.543	82.920	82.934	0.795	2.180	0.959	17.300
213	175	8.750	28.707	66.940	66.978	1.293	6.020	1.930	11.800
214	176	8.800	28.871	86.990	87.068	1.736	12.560	1.994	9.200
215	177	8.850	29.035	152.920	152.975	2.564	8.800	1.676	15.500
216	178	8.900	29.199	185.130	185.274	1.501	23.110	0.810	14.100
217	179	8.950	29.363	174.130	174.222	1.392	14.810	0.799	23.700
218	180	9.000	29.527	147.800	147.773	1.399	-4.320	0.947	20.400
219	181	9.050	29.691	83.090	83.100	1.186	1.530	1.427	24.600
220	182	9.100	29.855	67.930	68.019	1.180	14.190	1.735	31.000
221	183	9.150	30.019	42.860	42.864	0.966	0.620	2.254	27.600
222	184	9.200	30.183	57.460	57.656	0.944	31.420	1.637	28.400
223	185	9.250	30.347	71.450	71.489	1.040	6.230	1.455	31.100
224	186	9.300	30.511	61.230	61.303	1.383	11.720	2.256	27.700
225	187	9.350	30.675	51.840	51.809	1.464	-4.910	2.826	24.700
226	188	9.400	30.840	40.460	40.496	1.157	5.840	2.857	20.800
227	189	9.450	31.004	48.650	48.775	0.876	19.990	1.796	37.400
228	190	9.500	31.168	54.740	54.924	0.812	29.490	1.478	20.500
229	191	9.550	31.332	70.940	71.016	0.854	12.130	1.203	20.000
230	192	9.600	31.496	60.300	60.275	1.228	-3.990	2.037	20.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	115.620	115.626	1.200	1.010	1.038	27.900
232	194	9.700	31.824	67.840	67.964	1.355	19.930	1.994	16.300
233	195	9.750	31.988	70.410	70.545	1.099	21.670	1.558	14.800
234	196	9.800	32.152	52.950	52.934	1.001	-2.610	1.891	15.200
235	197	9.850	32.316	49.900	49.914	0.977	2.180	1.957	19.300
236	198	9.900	32.480	43.800	43.850	0.656	7.950	1.496	16.400
237	199	9.950	32.644	59.810	59.804	0.616	-0.980	1.030	20.900
238	200	10.000	32.808	76.840	76.825	0.616	-2.420	0.802	24.500
239	201	10.050	32.972	48.890	48.908	0.479	2.860	0.979	30.800
240	202	10.100	33.136	35.010	35.024	0.438	2.200	1.251	33.300
241	203	10.150	33.300	45.560	45.555	0.489	-0.820	1.073	38.000
242	204	10.200	33.464	36.020	36.042	0.598	3.570	1.659	43.000
243	205	10.250	33.628	27.850	27.878	0.662	4.540	2.375	39.100
244	206	10.300	33.792	28.970	28.991	0.630	3.320	2.173	39.300
245	207	10.350	33.956	34.760	34.790	0.854	4.840	2.455	37.800
246	208	10.400	34.120	69.520	69.559	1.112	6.210	1.599	39.500
247	209	10.450	34.284	56.540	56.551	1.497	1.810	2.647	46.400
248	210	10.500	34.448	56.980	57.003	1.559	3.760	2.735	39.100
249	211	10.550	34.612	61.230	61.463	1.377	37.270	2.240	41.900
250	212	10.600	34.776	113.210	113.219	1.315	1.410	1.161	48.300
251	213	10.650	34.941	81.340	81.394	1.394	8.710	1.713	37.200
252	214	10.700	35.105	82.120	82.182	1.812	9.900	2.205	42.000
253	215	10.750	35.269	61.730	61.770	1.581	6.380	2.560	49.800
254	216	10.800	35.433	33.350	33.355	1.955	0.790	5.861	50.800
255	217	10.850	35.597	66.190	66.231	1.877	6.520	2.834	54.600
256	218	10.900	35.761	89.750	89.750	1.840	-0.030	2.050	71.700
257	219	10.950	35.925	88.190	88.209	1.748	3.000	1.982	83.500
258	220	11.000	36.089	47.400	47.431	1.236	4.890	2.606	94.200
259	221	11.050	36.253	33.020	33.228	0.699	33.340	2.104	131.100
260	222	11.100	36.417	30.640	31.409	0.561	123.250	1.786	133.000
261	223	11.150	36.581	34.900	35.377	0.564	76.340	1.594	131.900
262	224	11.200	36.745	29.150	29.202	0.537	8.380	1.839	123.400
263	225	11.250	36.909	27.590	27.963	0.674	59.750	2.410	120.100
264	226	11.300	37.073	28.210	28.245	0.738	5.620	2.613	116.100
265	227	11.350	37.237	24.060	24.126	0.763	10.570	3.163	106.700
266	228	11.400	37.401	27.550	27.759	0.686	33.480	2.471	88.100
267	229	11.450	37.565	33.920	34.148	0.742	36.500	2.173	82.500
268	230	11.500	37.729	40.820	40.975	0.871	24.760	2.126	81.600
269	231	11.550	37.893	38.160	38.238	0.933	12.470	2.440	84.400
270	232	11.600	38.057	39.950	39.973	1.034	3.640	2.587	77.000
271	233	11.650	38.221	33.630	33.637	1.182	1.110	3.514	76.400
272	234	11.700	38.385	40.860	40.896	1.009	5.770	2.467	62.400
273	235	11.750	38.549	47.600	47.612	1.212	1.970	2.546	50.600
274	236	11.800	38.713	63.320	63.362	1.688	6.650	2.664	43.200
275	237	11.850	38.877	51.150	51.159	1.490	1.430	2.912	41.300
276	238	11.900	39.042	69.920	69.936	1.422	2.560	2.033	42.000
277	239	11.950	39.206	125.880	125.909	1.662	4.610	1.320	37.600
278	240	12.000	39.370	94.550	94.613	1.674	10.140	1.769	43.000
279	241	12.050	39.534	61.450	61.468	1.442	2.890	2.346	55.000
280	242	12.100	39.698	63.630	63.658	1.104	4.470	1.734	59.800
281	243	12.150	39.862	95.580	95.617	1.280	5.930	1.339	74.500
282	244	12.200	40.026	103.270	103.302	1.598	5.070	1.547	62.400
283	245	12.250	40.190	82.930	82.988	2.633	9.240	3.173	61.600
284	246	12.300	40.354	142.540	142.595	2.499	8.790	1.753	56.300
285	247	12.350	40.518	177.050	177.112	2.790	10.010	1.575	58.100
286	248	12.400	40.682	89.910	89.921	2.153	1.720	2.394	53.000
287	249	12.450	40.846	92.440	92.447	1.609	1.060	1.740	51.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	74.280	74.332	0.983	8.390	1.322	44.800
289	251	12.550	41.174	60.520	60.554	0.946	5.470	1.562	54.200
290	252	12.600	41.338	45.250	45.310	1.049	9.660	2.315	70.600
291	253	12.650	41.502	57.420	57.464	1.167	7.000	2.031	79.800
292	254	12.700	41.666	33.410	33.428	1.199	2.900	3.587	75.200
293	255	12.750	41.830	47.840	47.895	1.196	8.840	2.497	82.500
294	256	12.800	41.994	50.610	50.651	1.487	6.610	2.936	80.200
295	257	12.850	42.158	55.070	55.101	1.431	4.890	2.597	84.400
296	258	12.900	42.322	33.490	33.503	1.386	2.070	4.137	84.300
297	259	12.950	42.486	31.830	31.851	1.314	3.340	4.125	100.200
298	260	13.000	42.650	30.970	30.991	1.155	3.380	3.727	94.500
299	261	13.050	42.814	36.740	36.765	1.202	3.980	3.269	87.800
300	262	13.100	42.978	38.820	38.845	1.329	3.940	3.421	91.000
301	263	13.150	43.143	31.820	31.837	1.163	2.790	3.653	89.200
302	264	13.200	43.307	26.110	26.123	1.047	2.130	4.008	96.200
303	265	13.250	43.471	28.040	28.057	0.933	2.790	3.325	88.000
304	266	13.300	43.635	56.940	56.980	0.943	6.440	1.655	89.200
305	267	13.350	43.799	83.530	83.555	1.061	3.960	1.270	82.400
306	268	13.400	43.963	98.710	98.733	1.266	3.650	1.282	84.900
307	269	13.450	44.127	94.240	94.248	1.229	1.230	1.304	78.800
308	270	13.500	44.291	74.090	74.092	1.568	0.400	2.116	72.800
309	271	13.550	44.455	59.910	59.915	1.881	0.870	3.139	64.100
310	272	13.600	44.619	75.460	75.492	1.756	5.110	2.326	46.300
311	273	13.650	44.783	98.790	98.810	2.906	3.150	2.941	47.100
312	274	13.700	44.947	82.070	82.058	2.725	-1.990	3.321	51.800
313	275	13.750	45.111	37.360	37.406	1.859	7.380	4.970	51.500
314	276	13.800	45.275	45.600	45.638	0.902	6.160	1.976	51.000
315	277	13.850	45.439	43.800	43.816	0.972	2.590	2.218	57.200
316	278	13.900	45.603	34.890	34.897	1.207	1.190	3.459	47.700
317	279	13.950	45.767	42.300	42.325	1.099	3.970	2.597	54.800
318	280	14.000	45.931	38.690	38.727	1.292	5.920	3.336	54.200
319	281	14.050	46.095	46.020	46.038	1.174	2.860	2.550	55.900
320	282	14.100	46.259	20.990	21.016	1.225	4.180	5.829	73.100
321	283	14.150	46.423	17.400	17.421	0.812	3.330	4.661	66.600
322	284	14.200	46.587	21.470	21.492	0.848	3.550	3.946	74.500
323	285	14.250	46.751	20.160	20.153	0.680	-1.170	3.374	77.100
324	286	14.300	46.915	22.030	22.049	0.788	2.980	3.574	58.600
325	287	14.350	47.079	25.820	25.825	0.660	0.770	2.556	69.000
326	288	14.400	47.244	16.980	16.993	0.611	2.090	3.596	64.200
327	289	14.450	47.408	17.350	17.366	0.374	2.510	2.154	80.600
328	290	14.500	47.572	27.220	27.248	0.530	4.520	1.945	77.600
329	291	14.550	47.736	45.730	45.738	0.885	1.290	1.935	81.000
330	292	14.600	47.900	36.840	36.843	1.038	0.420	2.817	83.900
331	293	14.650	48.064	39.360	39.368	1.119	1.330	2.842	87.900
332	294	14.700	48.228	55.090	55.103	1.188	2.100	2.156	92.000
333	295	14.750	48.392	60.050	60.066	1.268	2.600	2.111	95.800
334	296	14.800	48.556	66.240	66.250	1.331	1.590	2.009	77.400
335	297	14.850	48.720	75.590	75.600	1.306	1.580	1.728	69.400
336	298	14.900	48.884	70.090	70.094	1.170	0.590	1.669	90.400
337	299	14.950	49.048	48.740	48.736	1.365	-0.660	2.801	87.600
338	300	15.000	49.212	36.340	36.334	1.384	-1.040	3.809	78.300
339	301	15.050	49.376	25.750	25.743	1.299	-1.150	5.046	65.500
340	302	15.100	49.540	23.450	23.449	1.234	-0.220	5.263	47.500
341	303	15.150	49.704	30.540	30.548	1.132	1.310	3.706	40.200
342	304	15.200	49.868	63.790	63.814	1.471	3.890	2.305	30.300
343	305	15.250	50.032	57.450	57.478	1.795	4.410	3.123	24.700
344	306	15.300	50.196	56.400	56.457	2.452	9.180	4.343	22.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	45.930	46.030	2.583	16.070	5.612	17.100
346	308	15.400	50.524	62.580	62.631	2.114	8.140	3.375	17.600
347	309	15.450	50.688	41.110	41.374	2.033	42.220	4.914	22.500
348	310	15.500	50.852	38.450	38.473	1.581	3.740	4.109	16.700
349	311	15.550	51.016	25.700	25.740	0.871	6.440	3.384	18.700
350	312	15.600	51.180	28.750	28.773	0.745	3.620	2.589	27.700
351	313	15.650	51.345	95.560	95.586	1.165	4.110	1.219	31.900
352	314	15.700	51.509	71.670	71.711	1.234	6.490	1.721	51.600
353	315	15.750	51.673	19.150	19.260	1.196	17.660	6.210	61.300
354	316	15.800	51.837	24.030	24.106	1.037	12.200	4.302	82.700
355	317	15.850	52.001	33.620	33.638	1.075	2.950	3.196	95.600
356	318	15.900	52.165	38.560	38.552	1.266	-1.340	3.284	92.900
357	319	15.950	52.329	42.830	42.830	1.222	0.080	2.853	82.400
358	320	16.000	52.493	50.150	50.148	1.246	-0.310	2.485	72.600
359	321	16.050	52.657	46.480	46.467	1.296	-2.020	2.789	78.300
360	322	16.100	52.821	34.640	34.628	1.474	-1.910	4.257	59.600
361	323	16.150	52.985	28.720	28.708	1.503	-1.910	5.235	53.900
362	324	16.200	53.149	31.680	31.666	1.298	-2.220	4.099	48.600
363	325	16.250	53.313	46.870	46.904	1.134	5.440	2.418	37.400
364	326	16.300	53.477	55.770	55.785	1.233	2.440	2.210	36.900
365	327	16.350	53.641	37.670	37.673	1.186	0.460	3.148	38.800
366	328	16.400	53.805	50.560	50.576	1.228	2.530	2.428	47.000
367	329	16.450	53.969	33.640	33.706	0.930	10.540	2.759	51.600
368	330	16.500	54.133	32.950	32.943	0.923	-1.170	2.802	55.500
369	331	16.550	54.297	50.340	50.362	1.002	3.570	1.990	76.700
370	332	16.600	54.461	30.220	30.227	1.040	1.160	3.441	64.100
371	333	16.650	54.625	25.360	25.373	1.408	2.060	5.549	60.400
372	334	16.700	54.789	22.880	22.912	1.363	5.120	5.949	57.800
373	335	16.750	54.953	30.290	30.335	1.305	7.220	4.302	51.500
374	336	16.800	55.117	47.440	47.544	1.570	16.690	3.302	37.300
375	337	16.850	55.281	85.030	85.107	1.559	12.260	1.832	31.900
376	338	16.900	55.446	110.090	110.130	1.707	6.360	1.550	34.900
377	339	16.950	55.610	94.460	94.514	1.914	8.670	2.025	30.600
378	340	17.000	55.774	68.050	68.234	2.005	29.450	2.938	30.500
379	341	17.050	55.938	98.760	98.801	1.624	6.550	1.644	35.500
380	342	17.100	56.102	106.610	106.643	1.674	5.250	1.570	31.300
381	343	17.150	56.266	95.230	95.241	1.340	1.780	1.407	37.500
382	344	17.200	56.430	42.960	42.980	1.717	3.280	3.995	31.100
383	345	17.250	56.594	59.160	59.217	1.569	9.100	2.650	20.100
384	346	17.300	56.758	53.530	53.627	1.701	15.520	3.172	23.000
385	347	17.350	56.922	39.530	39.719	1.671	30.220	4.207	20.800
386	348	17.400	57.086	39.440	39.523	1.522	13.220	3.851	17.900
387	349	17.450	57.250	35.080	35.152	1.184	11.590	3.368	29.300
388	350	17.500	57.414	25.750	25.851	1.458	16.180	5.640	31.300
389	351	17.550	57.578	50.080	50.161	0.888	12.910	1.770	25.200
390	352	17.600	57.742	41.230	41.196	0.961	-5.500	2.333	32.900
391	353	17.650	57.906	80.580	80.597	0.967	2.790	1.200	42.700
392	354	17.700	58.070	50.400	50.406	1.538	0.980	3.051	33.800
393	355	17.750	58.234	42.230	42.253	1.478	3.730	3.498	38.400
394	356	17.800	58.398	67.210	67.258	1.671	7.750	2.484	28.700
395	357	17.850	58.562	69.580	69.621	2.065	6.500	2.966	22.500
396	358	17.900	58.726	55.110	55.146	2.169	5.770	3.933	20.200
397	359	17.950	58.890	42.450	42.595	1.820	23.160	4.273	25.000
398	360	18.000	59.054	41.870	42.044	1.387	27.850	3.299	25.500
399	361	18.050	59.218	32.780	32.887	1.361	17.150	4.138	23.100
400	362	18.100	59.382	37.930	38.193	1.480	42.140	3.875	22.600
401	363	18.150	59.547	67.290	67.368	1.917	12.440	2.846	21.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	91.040	91.078	2.513	6.160	2.759	25.800
403	365	18.250	59.875	42.660	42.698	2.276	6.060	5.330	27.800
404	366	18.300	60.039	34.300	34.841	1.539	86.720	4.417	29.700
405	367	18.350	60.203	23.150	24.099	0.784	152.040	3.253	32.500
406	368	18.400	60.367	23.860	24.160	0.590	48.130	2.442	37.600
407	369	18.450	60.531	16.120	16.296	0.891	28.200	5.468	35.200
408	370	18.500	60.695	17.880	17.972	1.189	14.740	6.616	33.900
409	371	18.550	60.859	32.530	32.757	1.105	36.370	3.373	34.700
410	372	18.600	61.023	28.120	28.184	1.384	10.200	4.911	27.500
411	373	18.650	61.187	48.920	49.096	1.723	28.270	3.509	24.600
412	374	18.700	61.351	50.210	50.389	1.883	28.690	3.737	19.600
413	375	18.750	61.515	48.420	49.491	1.497	171.510	3.025	21.400
414	376	18.800	61.679	73.430	73.442	1.024	1.950	1.394	14.900
415	377	18.850	61.843	136.640	136.661	2.324	3.420	1.701	15.500
416	378	18.900	62.007	136.170	136.213	2.192	6.870	1.609	22.500
417	379	18.950	62.171	64.740	64.835	3.101	15.290	4.783	34.400
418	380	19.000	62.335	106.960	107.017	3.259	9.180	3.045	30.100
419	381	19.050	62.499	55.530	55.608	2.688	12.430	4.834	33.200
420	382	19.100	62.663	49.870	49.950	2.166	12.880	4.336	48.000
421	383	19.150	62.827	25.910	25.981	1.576	11.430	6.066	49.900
422	384	19.200	62.991	31.880	31.979	1.125	15.920	3.518	42.500
423	385	19.250	63.155	51.400	51.493	1.348	14.920	2.618	29.500
424	386	19.300	63.319	76.940	76.995	2.134	8.850	2.772	27.300
425	387	19.350	63.483	84.660	84.727	2.306	10.780	2.722	32.100
426	388	19.400	63.648	81.300	81.467	2.938	26.680	3.606	46.100
427	389	19.450	63.812	103.660	103.804	2.509	23.020	2.417	58.800
428	390	19.500	63.976	66.430	66.659	2.259	36.690	3.389	67.600
429	391	19.550	64.140	95.260	95.339	1.766	12.660	1.852	66.900
430	392	19.600	64.304	83.630	83.682	2.029	8.390	2.425	56.700
431	393	19.650	64.468	59.280	59.306	1.863	4.210	3.141	48.500
432	394	19.700	64.632	50.290	50.335	1.793	7.270	3.562	39.000
433	395	19.750	64.796	93.790	93.858	2.610	10.970	2.781	28.300
434	396	19.800	64.960	145.090	145.220	3.426	20.820	2.359	23.300
435	397	19.850	65.124	94.990	95.031	3.535	6.630	3.720	21.900
436	398	19.900	65.288	50.700	50.810	2.686	17.580	5.286	25.600
437	399	19.950	65.452	61.720	61.999	1.932	44.720	3.116	24.900
438	400	20.000	65.616	41.770	41.837	1.211	10.730	2.895	28.500
439	401	20.050	65.780	17.390	17.450	1.042	9.670	5.971	19.900
440	402	20.100	65.944	33.320	33.442	0.964	19.560	2.883	35.900
441	403	20.150	66.108	46.220	46.341	0.804	19.310	1.735	57.200
442	404	20.200	66.272	27.430	27.553	0.809	19.630	2.936	84.800
443	405	20.250	66.436	32.350	32.557	0.743	33.230	2.282	80.800
444	406	20.300	66.600	35.020	35.226	0.754	32.930	2.140	85.800
445	407	20.350	66.764	37.530	37.720	0.885	30.400	2.346	90.200
446	408	20.400	66.928	36.490	36.673	0.929	29.370	2.533	94.000
447	409	20.450	67.092	33.870	34.079	0.913	33.510	2.679	83.500
448	410	20.500	67.256	37.350	37.582	1.039	37.120	2.765	85.200
449	411	20.550	67.420	47.870	48.156	1.077	45.740	2.237	89.200
450	412	20.600	67.584	73.590	73.681	1.289	14.620	1.749	79.500
451	413	20.650	67.749	67.660	67.799	1.482	22.260	2.186	72.200
452	414	20.700	67.913	48.930	48.988	1.610	9.320	3.287	70.500
453	415	20.750	68.077	38.510	38.567	1.151	9.160	2.984	46.800
454	416	20.800	68.241	31.730	31.950	1.208	35.250	3.781	33.900
455	417	20.850	68.405	46.830	46.868	1.436	6.130	3.064	36.900
456	418	20.900	68.569	47.290	47.319	1.688	4.660	3.567	35.800
457	419	20.950	68.733	31.450	31.519	1.774	11.130	5.628	27.600
458	420	21.000	68.897	32.340	32.432	1.927	14.690	5.942	27.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	31.660	31.709	1.240	7.800	3.911	25.700
460	422	21.100	69.225	60.480	60.529	1.537	7.780	2.539	35.300
461	423	21.150	69.389	55.500	55.623	1.795	19.660	3.227	28.600
462	424	21.200	69.553	39.960	40.036	1.773	12.160	4.429	46.800
463	425	21.250	69.717	29.240	29.266	1.496	4.150	5.112	52.500
464	426	21.300	69.881	27.320	27.535	1.540	34.420	5.593	52.900
465	427	21.350	70.045	91.720	91.923	2.565	32.580	2.790	42.900
466	428	21.400	70.209	130.980	131.049	2.816	11.050	2.149	62.100
467	429	21.450	70.373	103.040	103.079	3.225	6.260	3.129	53.700
468	430	21.500	70.537	109.110	109.150	2.659	6.340	2.436	57.800
469	431	21.550	70.701	114.780	114.807	3.650	4.250	3.179	63.500
470	432	21.600	70.865	186.330	186.384	2.814	8.570	1.510	73.400
471	433	21.650	71.029	166.730	166.757	2.076	4.400	1.245	76.900
472	434	21.700	71.193	91.920	92.003	1.833	13.350	1.992	76.600
473	435	21.750	71.357	102.860	102.935	2.243	12.090	2.179	77.000
474	436	21.800	71.521	87.120	87.257	1.634	22.000	1.873	65.600
475	437	21.850	71.685	68.110	68.173	1.614	10.120	2.368	61.700
476	438	21.900	71.850	64.080	64.122	1.577	6.660	2.459	68.100
477	439	21.950	72.014	65.460	65.536	1.485	12.100	2.266	60.200
478	440	22.000	72.178	91.640	91.744	2.152	16.640	2.346	61.500
479	441	22.050	72.342	81.200	81.233	1.992	5.240	2.452	67.000
480	442	22.100	72.506	37.410	37.491	2.008	12.970	5.356	70.900
481	443	22.150	72.670	46.470	46.582	1.980	17.910	4.251	63.200
482	444	22.200	72.834	60.350	60.531	2.231	28.940	3.686	60.500
483	445	22.250	72.998	58.580	58.869	2.417	46.340	4.106	50.400
484	446	22.300	73.162	88.040	88.356	2.868	50.620	3.246	52.300
485	447	22.350	73.326	77.270	77.428	2.757	25.300	3.561	61.200
486	448	22.400	73.490	59.800	59.918	2.369	18.870	3.954	55.500
487	449	22.450	73.654	52.680	52.756	1.931	12.220	3.660	51.800
488	450	22.500	73.818	60.040	60.108	1.902	10.970	3.164	50.400
489	451	22.550	73.982	60.320	60.409	2.605	14.180	4.312	40.900
490	452	22.600	74.146	93.920	94.013	3.268	14.830	3.476	39.100
491	453	22.650	74.310	94.870	95.384	3.681	82.310	3.859	22.000
492	454	22.700	74.474	92.260	93.240	3.796	156.940	4.071	25.700
493	455	22.750	74.638	92.300	94.994	3.304	431.470	3.478	18.400
494	456	22.800	74.802	72.370	72.608	2.965	38.200	4.084	16.300
495	457	22.850	74.966	117.800	117.920	3.332	19.200	2.826	8.400
496	458	22.900	75.130	68.220	68.362	4.197	22.750	6.139	10.300
497	459	22.950	75.294	81.710	81.988	4.201	44.530	5.124	11.600
498	460	23.000	75.458	111.200	111.258	3.927	9.330	3.530	12.600
499	461	23.050	75.622	86.970	87.021	3.696	8.100	4.247	17.600
500	462	23.100	75.786	82.930	82.956	3.718	4.110	4.482	10.400
501	463	23.150	75.951	120.220	120.504	4.048	45.440	3.359	11.700
502	464	23.200	76.115	157.190	157.615	5.518	68.080	3.501	23.300
503	465	23.250	76.279	207.980	208.292	6.054	49.900	2.907	20.700
504	466	23.300	76.443	192.390	193.260	5.875	139.350	3.040	29.100
505	467	23.350	76.607	188.540	188.803	3.576	42.190	1.894	36.900
506	468	23.400	76.771	165.890	166.138	2.158	39.770	1.299	35.300
507	469	23.450	76.935	154.310	154.688	2.224	60.560	1.438	48.900
508	470	23.500	77.099	138.710	138.821	1.477	17.840	1.064	0.000
509	471	23.550	77.263	117.830	117.925	2.078	15.290	1.762	0.000
510	472	23.600	77.427	101.030	101.144	2.098	18.290	2.074	0.000
511	473	23.650	77.591	65.390	65.500	1.959	17.640	2.991	0.000
512	474	23.700	77.755	56.960	57.079	2.238	19.140	3.921	0.000
513	475	23.750	77.919	54.940	55.072	2.221	21.160	4.033	0.000
514	476	23.800	78.083	74.880	75.023	2.795	22.950	3.726	0.000
515	477	23.850	78.247	81.450	81.573	2.488	19.710	3.050	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	71.780	71.883	2.041	16.460	2.839	0.000
517	479	23.950	78.575	56.290	56.381	1.210	14.640	2.146	0.000
518	480	24.000	78.739	42.510	42.595	0.943	13.580	2.214	0.000
519	481	24.050	78.903	34.870	34.954	0.976	13.420	2.792	0.000
520	482	24.100	79.067	36.540	36.646	1.092	16.910	2.980	0.000
521	483	24.150	79.231	41.390	41.494	1.525	16.670	3.675	0.000
522	484	24.200	79.395	45.280	45.391	2.537	17.740	5.589	0.000
523	485	24.250	79.559	80.270	80.444	1.289	27.860	1.602	0.000
524	486	24.300	79.723	187.930	188.040	0.000	17.640	0.000	0.000
525	487	24.350	79.887	304.840	304.921	0.000	12.900	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272414				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-13C				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-15-2015				
14		CPT Time:			12:17				
15		CPT File:			15-53039_GP1D-13C.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722187.403				
31		Northing / Lat:			4294236.431				
32		Elevation:			158.380				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	20.030	20.045	0.013	2.430	0.065	22.500
40	2	0.100	0.328	22.720	22.731	0.025	1.760	0.110	29.200
41	3	0.150	0.492	23.190	23.195	0.047	0.870	0.203	36.500
42	4	0.200	0.656	22.930	22.986	0.114	8.930	0.496	43.300
43	5	0.250	0.820	38.120	38.122	0.207	0.370	0.543	52.400
44	6	0.300	0.984	15.620	15.717	0.297	15.460	1.890	57.700
45	7	0.350	1.148	19.510	19.541	0.400	5.010	2.047	71.300
46	8	0.400	1.312	20.590	20.612	0.465	3.570	2.256	77.300
47	9	0.450	1.476	25.390	25.425	0.467	5.650	1.837	82.800
48	10	0.500	1.640	41.930	41.905	0.576	-3.960	1.375	85.200
49	11	0.550	1.804	53.620	53.550	0.637	-11.210	1.190	81.200
50	12	0.600	1.968	54.200	54.132	0.590	-10.950	1.090	94.800
51	13	0.650	2.133	53.220	53.176	0.687	-7.050	1.292	104.000
52	14	0.700	2.297	47.580	47.519	0.799	-9.770	1.681	98.300
53	15	0.750	2.461	43.450	43.388	0.850	-9.920	1.959	107.200
54	16	0.800	2.625	47.210	47.141	0.877	-11.030	1.860	88.700
55	17	0.850	2.789	47.500	47.416	0.718	-13.480	1.514	95.000
56	18	0.900	2.953	50.030	49.935	0.765	-15.260	1.532	90.200
57	19	0.950	3.117	48.100	47.990	0.671	-17.590	1.398	101.300
58	20	1.000	3.281	34.900	34.789	0.700	-17.820	2.012	103.800
59	21	1.050	3.445	21.310	21.193	0.634	-18.820	2.992	74.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	17.470	17.357	0.523	-18.120	3.013	79.400
61	23	1.150	3.773	15.990	15.877	0.490	-18.140	3.086	93.400
62	24	1.200	3.937	16.990	16.878	0.409	-18.020	2.423	81.900
63	25	1.250	4.101	19.260	19.151	0.432	-17.410	2.256	87.300
64	26	1.300	4.265	21.630	21.520	0.436	-17.550	2.026	73.900
65	27	1.350	4.429	18.710	18.597	0.453	-18.070	2.436	79.600
66	28	1.400	4.593	14.990	14.875	0.423	-18.410	2.844	61.000
67	29	1.450	4.757	15.530	15.419	0.330	-17.810	2.140	49.000
68	30	1.500	4.921	33.330	33.318	0.504	-1.990	1.513	40.800
69	31	1.550	5.085	59.050	59.048	0.660	-0.270	1.118	38.700
70	32	1.600	5.249	21.780	21.792	0.727	1.970	3.336	27.800
71	33	1.650	5.413	38.270	38.288	0.712	2.930	1.860	29.100
72	34	1.700	5.577	32.240	32.273	0.454	5.300	1.407	37.800
73	35	1.750	5.741	20.770	20.802	0.679	5.120	3.264	31.100
74	36	1.800	5.905	35.220	35.231	0.693	1.770	1.967	24.700
75	37	1.850	6.069	34.770	34.804	0.798	5.370	2.293	23.600
76	38	1.900	6.234	19.010	19.026	0.663	2.610	3.485	25.300
77	39	1.950	6.398	14.200	14.220	0.466	3.230	3.277	26.500
78	40	2.000	6.562	20.610	20.632	0.292	3.520	1.415	32.800
79	41	2.050	6.726	7.170	7.186	0.236	2.600	3.284	40.000
80	42	2.100	6.890	19.830	19.812	0.308	-2.820	1.555	35.300
81	43	2.150	7.054	40.510	40.551	0.388	6.610	0.957	37.200
82	44	2.200	7.218	36.130	36.136	0.684	0.890	1.893	35.800
83	45	2.250	7.382	27.470	27.565	0.715	15.240	2.594	48.200
84	46	2.300	7.546	25.080	25.135	0.602	8.880	2.395	65.300
85	47	2.350	7.710	25.630	25.617	0.464	-2.030	1.811	85.300
86	48	2.400	7.874	24.170	24.141	0.355	-4.690	1.471	82.200
87	49	2.450	8.038	24.960	24.928	0.430	-5.180	1.725	83.800
88	50	2.500	8.202	24.880	24.836	0.435	-6.970	1.751	83.300
89	51	2.550	8.366	22.000	21.972	0.421	-4.500	1.916	78.100
90	52	2.600	8.530	20.020	19.988	0.503	-5.050	2.516	82.100
91	53	2.650	8.694	23.870	23.850	0.507	-3.160	2.126	70.200
92	54	2.700	8.858	36.080	36.088	0.655	1.310	1.815	59.200
93	55	2.750	9.022	25.180	25.194	0.775	2.180	3.076	57.500
94	56	2.800	9.186	35.500	35.515	1.037	2.440	2.920	52.300
95	57	2.850	9.350	30.150	30.153	1.050	0.420	3.482	52.100
96	58	2.900	9.514	24.470	24.497	1.068	4.360	4.360	62.200
97	59	2.950	9.678	18.610	18.650	0.707	6.440	3.791	79.700
98	60	3.000	9.842	16.030	16.227	0.519	31.560	3.198	85.100
99	61	3.050	10.006	15.940	16.057	0.413	18.680	2.572	77.000
100	62	3.100	10.170	21.090	21.126	0.508	5.760	2.405	76.800
101	63	3.150	10.335	22.910	22.884	0.589	-4.090	2.574	62.200
102	64	3.200	10.499	21.080	21.042	0.456	-6.040	2.167	51.800
103	65	3.250	10.663	31.510	31.479	0.640	-5.040	2.033	53.200
104	66	3.300	10.827	64.230	64.234	1.012	0.690	1.575	51.900
105	67	3.350	10.991	55.680	55.710	1.130	4.840	2.028	38.600
106	68	3.400	11.155	43.780	43.843	1.031	10.120	2.352	44.500
107	69	3.450	11.319	30.090	30.099	0.754	1.380	2.505	31.800
108	70	3.500	11.483	29.750	29.805	0.771	8.840	2.587	46.500
109	71	3.550	11.647	32.640	32.691	0.681	8.220	2.083	61.300
110	72	3.600	11.811	28.980	29.073	0.670	14.860	2.305	56.300
111	73	3.650	11.975	22.880	23.040	0.627	25.590	2.721	61.000
112	74	3.700	12.139	19.510	19.525	0.476	2.350	2.438	68.200
113	75	3.750	12.303	13.910	13.913	0.399	0.540	2.868	55.700
114	76	3.800	12.467	20.870	20.874	0.354	0.680	1.696	31.900
115	77	3.850	12.631	26.140	26.190	0.341	8.060	1.302	35.100
116	78	3.900	12.795	23.450	23.481	0.385	5.000	1.640	28.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	31.200	31.219	0.540	3.060	1.730	19.900
118	80	4.000	13.123	23.270	23.306	0.444	5.810	1.905	17.600
119	81	4.050	13.287	15.590	15.584	0.436	-1.030	2.798	13.000
120	82	4.100	13.451	14.110	14.116	0.343	0.990	2.430	15.100
121	83	4.150	13.615	24.940	24.973	0.549	5.220	2.198	9.400
122	84	4.200	13.779	41.750	41.835	0.650	13.660	1.554	13.200
123	85	4.250	13.943	13.380	13.400	0.611	3.180	4.560	14.400
124	86	4.300	14.107	31.490	31.519	0.586	4.570	1.859	14.300
125	87	4.350	14.271	38.270	38.301	0.514	5.010	1.342	15.000
126	88	4.400	14.436	51.330	51.365	0.756	5.620	1.472	8.400
127	89	4.450	14.600	43.830	43.838	0.957	1.260	2.183	11.500
128	90	4.500	14.764	47.420	47.439	0.942	3.100	1.986	21.000
129	91	4.550	14.928	66.870	66.878	1.063	1.220	1.589	15.500
130	92	4.600	15.092	137.210	137.222	2.003	1.950	1.460	15.300
131	93	4.650	15.256	92.050	92.307	2.036	41.230	2.206	18.000
132	94	4.700	15.420	77.150	77.246	1.962	15.340	2.540	22.400
133	95	4.750	15.584	124.780	124.834	1.753	8.600	1.404	18.100
134	96	4.800	15.748	90.920	90.978	2.280	9.350	2.506	24.200
135	97	4.850	15.912	72.830	72.942	1.867	18.000	2.560	23.900
136	98	4.900	16.076	86.870	87.326	1.428	73.110	1.635	23.900
137	99	4.950	16.240	35.270	35.379	1.026	17.480	2.900	28.100
138	100	5.000	16.404	63.490	63.589	0.913	15.910	1.436	25.600
139	101	5.050	16.568	106.080	106.090	0.993	1.580	0.936	26.700
140	102	5.100	16.732	90.060	90.141	1.524	13.010	1.691	22.000
141	103	5.150	16.896	121.970	122.078	1.562	17.370	1.280	26.700
142	104	5.200	17.060	68.440	68.472	1.710	5.190	2.497	29.000
143	105	5.250	17.224	62.840	62.852	1.519	1.870	2.417	22.700
144	106	5.300	17.388	46.850	46.852	1.165	0.340	2.487	30.200
145	107	5.350	17.552	96.200	96.208	1.398	1.280	1.453	21.700
146	108	5.400	17.716	91.860	91.868	1.779	1.350	1.936	22.500
147	109	5.450	17.880	93.670	93.762	1.497	14.660	1.597	19.600
148	110	5.500	18.044	109.500	109.545	2.498	7.170	2.280	17.200
149	111	5.550	18.208	97.060	97.060	1.907	0.070	1.965	23.600
150	112	5.600	18.372	118.090	118.133	1.951	6.880	1.652	20.400
151	113	5.650	18.537	100.240	100.256	2.684	2.500	2.677	23.200
152	114	5.700	18.701	104.720	104.727	3.114	1.090	2.973	19.800
153	115	5.750	18.865	49.770	49.809	2.969	6.260	5.961	25.600
154	116	5.800	19.029	57.020	57.036	1.885	2.630	3.305	23.800
155	117	5.850	19.193	44.980	45.985	1.802	160.930	3.919	20.800
156	118	5.900	19.357	54.620	55.211	1.717	94.710	3.110	18.500
157	119	5.950	19.521	37.610	37.696	1.290	13.750	3.422	16.300
158	120	6.000	19.685	64.280	64.372	1.181	14.690	1.835	15.500
159	121	6.050	19.849	79.980	80.052	1.511	11.570	1.888	17.300
160	122	6.100	20.013	119.350	119.411	1.743	9.780	1.460	14.400
161	123	6.150	20.177	70.360	70.460	1.762	16.070	2.501	13.900
162	124	6.200	20.341	84.930	84.979	2.043	7.810	2.404	14.000
163	125	6.250	20.505	110.720	110.755	1.383	5.560	1.249	16.900
164	126	6.300	20.669	119.020	119.098	0.644	12.520	0.541	8.900
165	127	6.350	20.833	124.900	125.036	1.077	21.840	0.861	10.700
166	128	6.400	20.997	66.470	66.544	0.955	11.920	1.435	8.600
167	129	6.450	21.161	76.760	76.832	1.081	11.500	1.407	10.400
168	130	6.500	21.325	38.510	38.556	1.057	7.320	2.741	11.000
169	131	6.550	21.489	47.700	47.743	1.094	6.940	2.291	9.800
170	132	6.600	21.653	50.430	50.452	0.996	3.530	1.974	19.200
171	133	6.650	21.817	46.620	46.644	0.754	3.850	1.616	11.600
172	134	6.700	21.981	69.770	69.821	0.865	8.110	1.239	13.500
173	135	6.750	22.145	55.240	55.288	1.116	7.740	2.019	9.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	79.770	79.770	1.141	0.020	1.430	16.200
175	137	6.850	22.473	83.030	83.068	1.407	6.150	1.694	17.100
176	138	6.900	22.638	73.370	73.442	1.514	11.500	2.061	13.900
177	139	6.950	22.802	53.660	53.706	1.413	7.410	2.631	11.800
178	140	7.000	22.966	60.310	60.362	0.795	8.390	1.317	18.300
179	141	7.050	23.130	99.510	99.548	0.932	6.030	0.936	15.200
180	142	7.100	23.294	157.710	157.763	1.224	8.420	0.776	17.000
181	143	7.150	23.458	88.570	88.574	1.580	0.580	1.784	16.900
182	144	7.200	23.622	73.760	73.778	1.775	2.840	2.406	16.400
183	145	7.250	23.786	66.100	66.122	1.252	3.540	1.893	18.300
184	146	7.300	23.950	97.870	97.923	1.826	8.550	1.865	16.900
185	147	7.350	24.114	139.760	139.873	1.731	18.160	1.238	16.400
186	148	7.400	24.278	74.420	74.494	2.059	11.880	2.764	18.100
187	149	7.450	24.442	69.710	69.734	1.657	3.910	2.376	20.700
188	150	7.500	24.606	54.700	54.714	1.936	2.230	3.538	23.500
189	151	7.550	24.770	86.460	86.478	1.471	2.920	1.701	18.600
190	152	7.600	24.934	116.070	116.118	1.806	7.650	1.555	13.400
191	153	7.650	25.098	102.180	102.180	1.920	0.030	1.879	17.400
192	154	7.700	25.262	89.390	89.408	1.456	2.940	1.628	12.400
193	155	7.750	25.426	108.110	108.149	1.494	6.300	1.381	14.800
194	156	7.800	25.590	130.800	130.803	1.294	0.470	0.989	14.500
195	157	7.850	25.754	79.400	79.417	1.495	2.660	1.882	24.800
196	158	7.900	25.918	70.880	70.897	1.264	2.720	1.783	15.500
197	159	7.950	26.082	63.010	63.014	1.099	0.620	1.744	19.200
198	160	8.000	26.246	73.140	73.154	1.045	2.310	1.428	11.500
199	161	8.050	26.410	63.690	63.703	1.173	2.070	1.841	11.900
200	162	8.100	26.574	48.020	48.020	1.008	-0.080	2.099	16.300
201	163	8.150	26.739	91.470	91.496	1.261	4.090	1.378	9.900
202	164	8.200	26.903	90.770	90.786	1.268	2.490	1.397	9.000
203	165	8.250	27.067	50.090	50.105	1.279	2.380	2.553	9.900
204	166	8.300	27.231	78.520	78.527	1.187	1.070	1.512	9.400
205	167	8.350	27.395	72.030	72.041	1.102	1.730	1.530	8.300
206	168	8.400	27.559	42.760	42.780	0.884	3.230	2.066	12.000
207	169	8.450	27.723	44.590	44.630	0.750	6.370	1.680	9.900
208	170	8.500	27.887	42.050	42.107	0.662	9.180	1.572	12.400
209	171	8.550	28.051	30.620	30.684	0.604	10.270	1.968	15.800
210	172	8.600	28.215	28.420	28.447	0.419	4.340	1.473	19.900
211	173	8.650	28.379	35.190	35.204	0.459	2.310	1.304	18.300
212	174	8.700	28.543	48.720	48.745	0.830	4.020	1.703	21.900
213	175	8.750	28.707	36.040	36.071	0.941	4.950	2.609	19.200
214	176	8.800	28.871	35.080	35.119	0.959	6.280	2.731	30.600
215	177	8.850	29.035	54.580	54.656	0.782	12.200	1.431	23.200
216	178	8.900	29.199	66.260	66.281	1.183	3.370	1.785	22.000
217	179	8.950	29.363	50.620	50.639	1.007	3.070	1.989	19.800
218	180	9.000	29.527	41.700	41.770	1.179	11.230	2.823	21.400
219	181	9.050	29.691	50.830	50.913	1.246	13.220	2.447	22.500
220	182	9.100	29.855	80.220	80.314	1.167	15.010	1.453	21.900
221	183	9.150	30.019	46.330	46.348	0.970	2.930	2.093	24.300
222	184	9.200	30.183	46.560	46.574	0.962	2.270	2.066	19.300
223	185	9.250	30.347	50.090	50.136	0.587	7.420	1.171	27.700
224	186	9.300	30.511	52.780	52.833	0.796	8.520	1.507	30.800
225	187	9.350	30.675	61.370	61.390	1.169	3.170	1.904	28.100
226	188	9.400	30.840	59.810	59.857	1.267	7.540	2.117	29.200
227	189	9.450	31.004	40.030	40.077	1.191	7.460	2.972	30.600
228	190	9.500	31.168	47.990	48.023	1.114	5.300	2.320	22.200
229	191	9.550	31.332	59.250	59.301	0.920	8.110	1.551	12.600
230	192	9.600	31.496	58.970	59.040	0.748	11.180	1.267	26.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	36.600	36.668	0.367	10.950	1.001	25.300
232	194	9.700	31.824	35.950	35.949	0.377	-0.240	1.049	29.200
233	195	9.750	31.988	25.000	25.071	0.568	11.350	2.266	32.000
234	196	9.800	32.152	55.010	55.066	0.739	9.040	1.342	46.500
235	197	9.850	32.316	55.490	55.543	0.897	8.430	1.615	47.000
236	198	9.900	32.480	38.020	38.062	0.996	6.770	2.617	47.200
237	199	9.950	32.644	39.920	39.957	1.017	5.890	2.545	56.200
238	200	10.000	32.808	30.240	30.265	1.045	3.960	3.453	57.300
239	201	10.050	32.972	24.260	24.279	0.872	3.100	3.592	70.000
240	202	10.100	33.136	21.950	22.016	0.779	10.650	3.538	54.400
241	203	10.150	33.300	27.480	27.506	0.765	4.160	2.781	46.100
242	204	10.200	33.464	38.870	38.940	0.693	11.180	1.780	40.300
243	205	10.250	33.628	51.980	52.016	1.653	5.700	3.178	41.600
244	206	10.300	33.792	113.250	113.288	2.289	6.140	2.021	31.300
245	207	10.350	33.956	81.710	81.778	2.175	10.940	2.660	25.200
246	208	10.400	34.120	98.790	98.964	1.962	27.820	1.983	33.300
247	209	10.450	34.284	147.840	147.899	1.714	9.520	1.159	35.900
248	210	10.500	34.448	125.350	125.418	1.772	10.870	1.413	39.000
249	211	10.550	34.612	134.210	134.294	2.636	13.520	1.963	34.300
250	212	10.600	34.776	130.410	130.427	3.043	2.770	2.333	35.700
251	213	10.650	34.941	125.940	125.993	2.426	8.470	1.926	29.200
252	214	10.700	35.105	80.860	80.908	1.692	7.710	2.091	32.700
253	215	10.750	35.269	35.820	35.871	1.659	8.100	4.625	29.600
254	216	10.800	35.433	33.210	33.278	2.542	10.840	7.639	34.700
255	217	10.850	35.597	20.230	20.274	2.898	7.110	14.294	32.700
256	218	10.900	35.761	140.200	140.378	2.771	28.490	1.974	34.500
257	219	10.950	35.925	133.090	133.104	3.181	2.320	2.390	38.400
258	220	11.000	36.089	72.540	72.573	3.592	5.320	4.949	55.300
259	221	11.050	36.253	50.410	50.470	2.314	9.630	4.585	51.900
260	222	11.100	36.417	61.020	61.150	1.236	20.750	2.021	69.100
261	223	11.150	36.581	38.460	38.655	1.309	31.200	3.386	60.400
262	224	11.200	36.745	36.910	36.999	1.060	14.210	2.865	83.500
263	225	11.250	36.909	37.530	37.600	1.040	11.210	2.766	88.000
264	226	11.300	37.073	31.320	31.347	1.095	4.400	3.493	95.500
265	227	11.350	37.237	37.450	37.477	1.042	4.320	2.780	77.500
266	228	11.400	37.401	41.520	41.594	1.007	11.880	2.421	89.000
267	229	11.450	37.565	47.370	47.441	0.981	11.370	2.068	82.500
268	230	11.500	37.729	46.070	46.120	0.994	8.030	2.155	88.000
269	231	11.550	37.893	44.330	44.366	0.952	5.710	2.146	91.500
270	232	11.600	38.057	38.120	38.191	0.805	11.420	2.108	80.400
271	233	11.650	38.221	33.750	33.799	1.121	7.900	3.317	92.400
272	234	11.700	38.385	33.600	33.682	1.075	13.140	3.192	67.000
273	235	11.750	38.549	49.800	49.892	1.025	14.790	2.054	61.600
274	236	11.800	38.713	51.050	51.094	1.936	6.970	3.789	41.700
275	237	11.850	38.877	111.010	111.055	3.429	7.270	3.088	42.300
276	238	11.900	39.042	77.370	77.397	2.851	4.260	3.684	30.600
277	239	11.950	39.206	73.490	73.523	2.829	5.290	3.848	36.900
278	240	12.000	39.370	84.260	84.295	1.948	5.640	2.311	27.800
279	241	12.050	39.534	97.440	97.501	1.872	9.730	1.920	21.700
280	242	12.100	39.698	129.960	130.063	1.345	16.420	1.034	20.200
281	243	12.150	39.862	64.720	64.858	1.042	22.050	1.607	16.700
282	244	12.200	40.026	44.830	45.011	0.596	28.960	1.324	16.300
283	245	12.250	40.190	22.140	22.189	0.683	7.790	3.078	18.100
284	246	12.300	40.354	33.850	33.867	0.620	2.670	1.831	16.900
285	247	12.350	40.518	41.160	41.218	0.555	9.260	1.347	25.500
286	248	12.400	40.682	28.830	28.834	0.715	0.710	2.480	21.500
287	249	12.450	40.846	52.880	52.914	1.051	5.460	1.986	28.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	97.580	97.634	1.698	8.710	1.739	30.700
289	251	12.550	41.174	100.650	100.713	1.956	10.080	1.942	32.500
290	252	12.600	41.338	84.260	84.280	1.849	3.240	2.194	36.600
291	253	12.650	41.502	55.630	55.675	1.814	7.240	3.258	49.100
292	254	12.700	41.666	95.830	95.891	3.604	9.740	3.758	58.700
293	255	12.750	41.830	144.520	144.491	3.983	-4.700	2.757	50.000
294	256	12.800	41.994	260.560	260.661	4.388	16.160	1.683	57.200
295	257	12.850	42.158	196.830	196.827	3.484	-0.550	1.770	58.500
296	258	12.900	42.322	200.910	200.905	0.012	-0.860	0.006	57.400
297	259	12.950	42.486	230.720	230.745	1.605	4.040	0.696	71.700
298	260	13.000	42.650	156.670	156.669	1.714	-0.200	1.094	66.100
299	261	13.050	42.814	130.060	130.054	2.021	-0.900	1.554	82.000
300	262	13.100	42.978	61.660	61.658	2.303	-0.270	3.735	83.600
301	263	13.150	43.143	42.690	42.695	2.012	0.790	4.713	87.100
302	264	13.200	43.307	35.020	35.033	1.307	2.120	3.731	91.600
303	265	13.250	43.471	34.200	34.226	1.066	4.100	3.115	96.500
304	266	13.300	43.635	47.540	47.570	0.898	4.840	1.888	80.100
305	267	13.350	43.799	85.060	85.099	0.788	6.220	0.926	84.300
306	268	13.400	43.963	94.410	94.422	0.681	2.000	0.721	89.200
307	269	13.450	44.127	93.240	93.240	0.782	0.050	0.839	76.100
308	270	13.500	44.291	86.530	86.527	1.159	-0.490	1.339	96.800
309	271	13.550	44.455	79.080	79.079	1.267	-0.170	1.602	78.800
310	272	13.600	44.619	70.220	70.222	1.554	0.260	2.213	75.500
311	273	13.650	44.783	59.760	59.752	1.688	-1.330	2.825	85.700
312	274	13.700	44.947	53.200	53.191	1.599	-1.520	3.006	72.700
313	275	13.750	45.111	47.150	47.141	1.229	-1.480	2.607	82.000
314	276	13.800	45.275	43.220	43.216	0.801	-0.720	1.854	68.000
315	277	13.850	45.439	38.960	38.969	0.968	1.380	2.484	49.200
316	278	13.900	45.603	65.080	65.057	1.292	-3.660	1.986	46.300
317	279	13.950	45.767	129.780	129.775	2.157	-0.850	1.662	42.800
318	280	14.000	45.931	93.690	93.681	2.458	-1.460	2.624	30.300
319	281	14.050	46.095	102.010	102.028	2.913	2.870	2.855	27.600
320	282	14.100	46.259	76.700	76.697	1.964	-0.470	2.561	22.400
321	283	14.150	46.423	75.600	75.700	1.752	16.040	2.314	15.600
322	284	14.200	46.587	58.520	58.674	1.446	24.630	2.464	44.800
323	285	14.250	46.751	44.070	44.273	1.127	32.530	2.546	53.800
324	286	14.300	46.915	21.460	21.648	0.773	30.110	3.571	53.300
325	287	14.350	47.079	20.790	20.930	0.563	22.390	2.690	65.600
326	288	14.400	47.244	18.850	18.952	0.446	16.370	2.353	84.200
327	289	14.450	47.408	18.060	18.151	0.434	14.590	2.391	79.500
328	290	14.500	47.572	18.040	18.109	0.461	11.010	2.546	77.500
329	291	14.550	47.736	20.050	20.121	0.465	11.390	2.311	87.000
330	292	14.600	47.900	27.480	27.550	0.612	11.280	2.221	82.800
331	293	14.650	48.064	30.200	30.246	0.633	7.440	2.093	83.800
332	294	14.700	48.228	31.090	31.150	0.698	9.640	2.241	92.800
333	295	14.750	48.392	41.170	41.240	0.887	11.160	2.151	88.700
334	296	14.800	48.556	62.020	62.086	1.141	10.520	1.838	91.200
335	297	14.850	48.720	80.260	80.315	1.273	8.840	1.585	93.900
336	298	14.900	48.884	73.600	73.658	1.379	9.240	1.872	80.200
337	299	14.950	49.048	43.880	43.900	1.147	3.270	2.613	78.800
338	300	15.000	49.212	29.200	29.211	0.859	1.740	2.941	81.400
339	301	15.050	49.376	27.770	27.808	0.859	6.080	3.089	84.100
340	302	15.100	49.540	29.520	29.542	0.678	3.470	2.295	89.400
341	303	15.150	49.704	21.730	21.770	0.546	6.450	2.508	82.400
342	304	15.200	49.868	23.360	23.420	0.600	9.670	2.562	66.700
343	305	15.250	50.032	34.210	34.378	0.879	26.980	2.557	49.000
344	306	15.300	50.196	58.570	58.779	1.106	33.490	1.882	42.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	73.940	74.149	1.692	33.490	2.282	31.000
346	308	15.400	50.524	66.300	66.346	2.001	7.320	3.016	25.000
347	309	15.450	50.688	31.710	32.060	1.915	56.040	5.973	27.100
348	310	15.500	50.852	56.310	56.371	1.674	9.800	2.970	27.600
349	311	15.550	51.016	54.780	54.878	1.260	15.650	2.296	26.800
350	312	15.600	51.180	61.270	61.892	1.635	99.700	2.642	26.600
351	313	15.650	51.345	74.890	75.259	1.874	59.060	2.490	26.900
352	314	15.700	51.509	63.570	63.640	1.964	11.240	3.086	47.600
353	315	15.750	51.673	44.110	44.320	1.799	33.570	4.059	61.500
354	316	15.800	51.837	55.610	55.886	1.315	44.280	2.353	67.600
355	317	15.850	52.001	99.230	99.381	1.274	24.130	1.282	83.000
356	318	15.900	52.165	96.670	96.719	1.734	7.800	1.793	81.800
357	319	15.950	52.329	83.300	83.332	2.105	5.090	2.526	92.000
358	320	16.000	52.493	73.110	73.167	2.342	9.200	3.201	99.000
359	321	16.050	52.657	84.580	84.719	2.567	22.270	3.030	103.000
360	322	16.100	52.821	94.370	94.435	2.573	10.460	2.725	90.000
361	323	16.150	52.985	82.870	82.905	2.828	5.650	3.411	74.600
362	324	16.200	53.149	82.920	82.940	2.657	3.130	3.204	66.900
363	325	16.250	53.313	82.990	83.138	2.542	23.730	3.058	46.500
364	326	16.300	53.477	67.960	68.148	2.243	30.180	3.291	46.100
365	327	16.350	53.641	82.580	82.972	2.022	62.780	2.437	44.400
366	328	16.400	53.805	62.750	62.932	1.634	29.100	2.596	53.000
367	329	16.450	53.969	27.550	28.697	1.298	183.680	4.523	60.100
368	330	16.500	54.133	39.450	39.555	1.187	16.860	3.001	77.500
369	331	16.550	54.297	39.190	39.214	0.824	3.820	2.101	83.300
370	332	16.600	54.461	33.140	33.178	0.705	6.030	2.125	84.700
371	333	16.650	54.625	39.340	39.404	0.659	10.200	1.672	71.100
372	334	16.700	54.789	89.960	89.997	0.773	5.860	0.859	77.400
373	335	16.750	54.953	127.490	127.958	1.635	74.910	1.278	81.000
374	336	16.800	55.117	63.960	64.386	1.216	68.240	1.889	89.200
375	337	16.850	55.281	62.920	62.915	2.712	-0.770	4.311	79.000
376	338	16.900	55.446	65.470	65.512	1.665	6.800	2.542	63.000
377	339	16.950	55.610	32.350	32.348	2.119	-0.390	6.551	56.400
378	340	17.000	55.774	52.740	52.798	1.647	9.290	3.119	44.000
379	341	17.050	55.938	83.370	83.416	1.711	7.340	2.051	35.800
380	342	17.100	56.102	73.170	73.193	1.536	3.660	2.099	28.900
381	343	17.150	56.266	63.410	63.462	1.449	8.330	2.283	27.100
382	344	17.200	56.430	76.490	76.510	1.135	3.140	1.483	23.800
383	345	17.250	56.594	104.330	104.354	1.504	3.770	1.441	27.000
384	346	17.300	56.758	137.170	137.220	2.129	8.000	1.552	33.000
385	347	17.350	56.922	93.770	93.872	2.640	16.370	2.812	24.800
386	348	17.400	57.086	75.020	75.139	2.470	19.110	3.287	28.600
387	349	17.450	57.250	58.370	59.121	1.975	120.340	3.341	24.600
388	350	17.500	57.414	54.800	56.179	1.452	220.920	2.585	24.600
389	351	17.550	57.578	60.350	62.075	1.630	276.360	2.626	18.200
390	352	17.600	57.742	58.830	60.061	1.553	197.160	2.586	17.400
391	353	17.650	57.906	58.690	59.119	1.281	68.720	2.167	20.400
392	354	17.700	58.070	53.250	53.368	1.016	18.870	1.904	24.400
393	355	17.750	58.234	22.760	22.760	0.772	0.070	3.392	23.200
394	356	17.800	58.398	25.020	25.035	0.747	2.420	2.984	27.800
395	357	17.850	58.562	49.390	49.454	0.878	10.260	1.775	26.400
396	358	17.900	58.726	44.460	44.574	1.057	18.200	2.371	31.800
397	359	17.950	58.890	44.740	44.803	0.982	10.100	2.192	41.500
398	360	18.000	59.054	42.490	42.615	0.918	20.100	2.154	44.400
399	361	18.050	59.218	84.570	84.627	0.984	9.110	1.163	47.800
400	362	18.100	59.382	94.390	94.453	1.234	10.080	1.306	49.700
401	363	18.150	59.547	81.370	81.427	1.615	9.080	1.983	40.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	65.150	65.179	1.692	4.610	2.596	39.300
403	365	18.250	59.875	55.220	55.307	1.726	13.860	3.121	29.800
404	366	18.300	60.039	65.530	65.607	1.860	12.330	2.835	23.700
405	367	18.350	60.203	74.400	74.451	1.937	8.230	2.602	21.100
406	368	18.400	60.367	48.520	48.579	1.568	9.430	3.228	20.800
407	369	18.450	60.531	30.990	31.104	1.378	18.190	4.430	28.000
408	370	18.500	60.695	32.980	33.099	0.936	19.010	2.828	24.300
409	371	18.550	60.859	19.810	19.877	0.935	10.740	4.704	24.900
410	372	18.600	61.023	33.550	33.607	0.960	9.210	2.857	23.300
411	373	18.650	61.187	44.820	44.901	0.940	13.030	2.093	26.100
412	374	18.700	61.351	21.700	21.951	0.944	40.180	4.301	20.800
413	375	18.750	61.515	25.720	25.995	0.825	44.050	3.174	23.200
414	376	18.800	61.679	39.020	39.592	0.840	91.550	2.122	24.100
415	377	18.850	61.843	37.030	37.185	0.892	24.820	2.399	14.400
416	378	18.900	62.007	21.970	22.323	1.065	56.520	4.771	18.200
417	379	18.950	62.171	42.110	42.137	1.517	4.330	3.600	20.300
418	380	19.000	62.335	61.680	61.795	1.524	18.360	2.466	18.400
419	381	19.050	62.499	63.310	63.485	1.970	27.990	3.103	19.800
420	382	19.100	62.663	73.970	74.718	2.530	119.740	3.386	15.100
421	383	19.150	62.827	60.920	61.070	2.336	24.070	3.825	25.100
422	384	19.200	62.991	119.090	119.228	2.302	22.030	1.931	15.900
423	385	19.250	63.155	62.070	62.163	2.505	14.890	4.030	29.600
424	386	19.300	63.319	58.520	58.644	2.378	19.910	4.055	38.700
425	387	19.350	63.483	43.000	43.053	1.530	8.520	3.554	48.400
426	388	19.400	63.648	24.580	24.640	1.112	9.590	4.513	46.500
427	389	19.450	63.812	33.160	33.259	0.798	15.930	2.399	48.900
428	390	19.500	63.976	22.410	22.653	0.687	38.900	3.033	51.400
429	391	19.550	64.140	36.780	37.168	0.981	62.150	2.639	61.600
430	392	19.600	64.304	49.700	49.745	1.060	7.260	2.131	70.500
431	393	19.650	64.468	40.170	40.261	1.107	14.580	2.750	81.900
432	394	19.700	64.632	42.980	43.213	1.019	37.300	2.358	82.700
433	395	19.750	64.796	47.560	47.908	1.010	55.810	2.108	76.900
434	396	19.800	64.960	44.760	44.949	1.081	30.340	2.405	86.300
435	397	19.850	65.124	37.380	37.599	1.051	35.060	2.795	76.500
436	398	19.900	65.288	43.270	43.741	1.255	75.510	2.869	69.500
437	399	19.950	65.452	55.020	55.176	2.304	25.050	4.176	64.300
438	400	20.000	65.616	135.760	135.888	2.826	20.550	2.080	57.700
439	401	20.050	65.780	35.780	35.839	2.841	9.410	7.927	41.200
440	402	20.100	65.944	36.240	36.913	2.068	107.860	5.602	37.600
441	403	20.150	66.108	56.200	56.535	1.780	53.710	3.148	39.200
442	404	20.200	66.272	44.140	44.218	2.547	12.430	5.760	24.900
443	405	20.250	66.436	130.310	130.398	2.740	14.020	2.101	32.000
444	406	20.300	66.600	75.410	75.508	2.348	15.770	3.110	33.400
445	407	20.350	66.764	59.920	60.280	1.910	57.710	3.169	47.400
446	408	20.400	66.928	79.790	79.842	1.454	8.280	1.821	39.900
447	409	20.450	67.092	49.950	49.970	1.106	3.130	2.213	43.300
448	410	20.500	67.256	47.160	47.587	1.124	68.340	2.362	48.100
449	411	20.550	67.420	39.290	39.675	1.070	61.670	2.697	44.000
450	412	20.600	67.584	58.510	59.306	1.287	127.520	2.170	40.000
451	413	20.650	67.749	109.510	109.589	2.593	12.650	2.366	39.400
452	414	20.700	67.913	106.660	106.755	2.525	15.290	2.365	33.200
453	415	20.750	68.077	39.880	39.916	2.242	5.720	5.617	37.600
454	416	20.800	68.241	60.440	60.565	1.209	20.010	1.996	46.000
455	417	20.850	68.405	37.940	38.265	1.030	51.990	2.692	61.800
456	418	20.900	68.569	38.840	39.328	0.859	78.190	2.184	62.400
457	419	20.950	68.733	42.860	43.105	1.075	39.170	2.494	76.900
458	420	21.000	68.897	38.760	38.856	0.791	15.380	2.036	68.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	53.500	53.557	1.065	9.180	1.989	53.200
460	422	21.100	69.225	79.460	79.484	1.359	3.790	1.710	38.100
461	423	21.150	69.389	58.450	58.501	1.758	8.170	3.005	29.800
462	424	21.200	69.553	58.170	58.240	2.053	11.150	3.525	24.200
463	425	21.250	69.717	68.830	68.894	1.915	10.180	2.780	21.600
464	426	21.300	69.881	123.010	123.117	2.099	17.110	1.705	28.100
465	427	21.350	70.045	82.270	82.302	2.193	5.070	2.665	21.800
466	428	21.400	70.209	44.070	44.169	2.265	15.800	5.128	19.300
467	429	21.450	70.373	33.750	33.984	1.603	37.460	4.717	21.500
468	430	21.500	70.537	53.020	53.337	1.284	50.730	2.407	21.300
469	431	21.550	70.701	50.320	50.441	1.669	19.380	3.309	26.600
470	432	21.600	70.865	91.170	91.273	1.981	16.490	2.170	31.100
471	433	21.650	71.029	55.530	55.616	1.871	13.790	3.364	42.400
472	434	21.700	71.193	44.050	44.342	1.899	46.800	4.283	50.500
473	435	21.750	71.357	63.890	64.086	1.541	31.470	2.405	61.700
474	436	21.800	71.521	45.960	46.226	1.665	42.540	3.602	61.800
475	437	21.850	71.685	38.580	38.724	1.261	23.120	3.256	57.000
476	438	21.900	71.850	85.030	85.110	1.771	12.840	2.081	45.000
477	439	21.950	72.014	105.540	105.590	2.313	7.930	2.191	52.600
478	440	22.000	72.178	60.200	60.248	2.180	7.750	3.618	36.500
479	441	22.050	72.342	41.440	41.501	1.638	9.790	3.947	41.700
480	442	22.100	72.506	35.850	35.904	1.019	8.660	2.838	48.300
481	443	22.150	72.670	53.900	53.970	0.944	11.250	1.749	0.000
482	444	22.200	72.834	77.930	77.988	0.892	9.290	1.144	0.000
483	445	22.250	72.998	70.720	70.773	1.020	8.530	1.441	0.000
484	446	22.300	73.162	59.330	59.383	1.548	8.540	2.607	0.000
485	447	22.350	73.326	72.980	73.054	1.430	11.930	1.957	0.000
486	448	22.400	73.490	39.420	39.472	1.565	8.360	3.965	0.000
487	449	22.450	73.654	37.010	37.056	1.191	7.410	3.214	0.000
488	450	22.500	73.818	25.700	25.754	1.127	8.610	4.376	0.000
489	451	22.550	73.982	39.090	39.177	1.285	13.890	3.280	0.000
490	452	22.600	74.146	36.170	36.281	1.219	17.840	3.360	0.000
491	453	22.650	74.310	30.540	30.576	1.789	5.830	5.851	0.000
492	454	22.700	74.474	65.030	65.084	2.883	8.700	4.430	0.000
493	455	22.750	74.638	84.480	84.507	0.852	4.350	1.008	0.000
494	456	22.800	74.802	100.780	100.802	1.136	3.570	1.127	0.000
495	457	22.850	74.966	182.250	182.278	1.499	4.510	0.822	0.000
496	458	22.900	75.130	291.590	291.667	0.000	12.320	0.000	0.000
497	459	22.950	75.294	331.130	331.249	0.000	19.080	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272416				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-14				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-13-2015				
14		CPT Time:			06:28				
15		CPT File:			15-53039_GP1D-14.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722180.450				
31		Northing / Lat:			4294214.628				
32		Elevation:			159.020				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	1.650	1.649	0.016	-0.130	0.970	20.200
40	2	0.100	0.328	14.250	14.258	0.072	1.330	0.505	29.600
41	3	0.150	0.492	15.030	15.030	0.016	0.030	0.106	26.900
42	4	0.200	0.656	10.450	10.460	0.035	1.590	0.335	39.000
43	5	0.250	0.820	15.090	15.092	0.044	0.390	0.292	41.600
44	6	0.300	0.984	75.210	75.238	0.152	4.460	0.202	59.900
45	7	0.350	1.148	78.550	78.623	0.309	11.640	0.393	79.200
46	8	0.400	1.312	58.590	58.654	0.439	10.230	0.748	79.300
47	9	0.450	1.476	72.940	72.939	0.603	-0.200	0.827	89.500
48	10	0.500	1.640	75.630	75.620	0.632	-1.550	0.836	95.300
49	11	0.550	1.804	72.830	72.815	0.738	-2.430	1.014	90.200
50	12	0.600	1.968	72.770	72.766	0.761	-0.700	1.046	92.200
51	13	0.650	2.133	76.270	76.236	0.805	-5.500	1.056	89.700
52	14	0.700	2.297	70.000	69.951	0.990	-7.780	1.415	98.300
53	15	0.750	2.461	59.020	58.967	1.182	-8.530	2.005	99.200
54	16	0.800	2.625	55.390	55.330	1.072	-9.620	1.937	86.900
55	17	0.850	2.789	51.590	51.518	0.975	-11.590	1.893	90.700
56	18	0.900	2.953	43.030	42.948	0.861	-13.150	2.005	90.700
57	19	0.950	3.117	40.520	40.437	0.915	-13.280	2.263	91.600
58	20	1.000	3.281	45.690	45.604	0.912	-13.710	2.000	86.400
59	21	1.050	3.445	44.670	44.577	0.740	-14.950	1.660	92.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	37.290	37.198	0.546	-14.800	1.468	73.600
61	23	1.150	3.773	34.930	34.858	0.442	-11.540	1.268	67.700
62	24	1.200	3.937	50.230	50.200	0.570	-4.860	1.135	60.600
63	25	1.250	4.101	46.700	46.708	0.748	1.240	1.601	66.300
64	26	1.300	4.265	41.360	41.396	0.925	5.690	2.235	72.900
65	27	1.350	4.429	41.070	41.101	0.871	4.890	2.119	65.000
66	28	1.400	4.593	27.410	27.397	0.686	-2.110	2.504	70.500
67	29	1.450	4.757	25.430	25.506	0.582	12.200	2.282	77.300
68	30	1.500	4.921	23.660	23.694	0.368	5.440	1.553	86.300
69	31	1.550	5.085	20.440	20.442	0.381	0.270	1.864	80.700
70	32	1.600	5.249	18.740	18.744	0.472	0.580	2.518	92.300
71	33	1.650	5.413	16.390	16.346	0.495	-7.030	3.028	90.100
72	34	1.700	5.577	23.160	23.129	0.578	-4.930	2.499	89.800
73	35	1.750	5.741	41.030	41.021	0.585	-1.510	1.426	98.500
74	36	1.800	5.905	49.140	49.125	0.678	-2.330	1.380	90.000
75	37	1.850	6.069	51.590	51.584	0.787	-0.930	1.526	81.900
76	38	1.900	6.234	45.740	45.736	0.737	-0.610	1.611	81.600
77	39	1.950	6.398	34.420	34.406	0.553	-2.260	1.607	70.500
78	40	2.000	6.562	48.790	48.794	0.482	0.600	0.988	52.600
79	41	2.050	6.726	90.700	90.711	0.628	1.750	0.692	58.300
80	42	2.100	6.890	93.480	93.494	0.548	2.240	0.586	42.100
81	43	2.150	7.054	108.180	108.186	0.134	0.990	0.124	40.700
82	44	2.200	7.218	95.050	95.081	0.465	4.930	0.489	41.200
83	45	2.250	7.382	71.360	71.356	0.642	-0.680	0.900	45.300
84	46	2.300	7.546	86.160	86.150	0.599	-1.560	0.695	47.900
85	47	2.350	7.710	125.130	125.205	0.749	12.050	0.598	56.500
86	48	2.400	7.874	57.270	57.369	0.242	15.800	0.422	51.500
87	49	2.450	8.038	59.670	59.723	0.099	8.460	0.166	60.000
88	50	2.500	8.202	50.690	50.698	0.015	1.260	0.030	74.100
89	51	2.550	8.366	40.070	40.068	0.013	-0.300	0.032	65.600
90	52	2.600	8.530	28.240	28.247	0.013	1.110	0.046	57.600
91	53	2.650	8.694	27.010	27.050	0.185	6.360	0.684	49.800
92	54	2.700	8.858	33.620	33.631	0.042	1.770	0.125	46.500
93	55	2.750	9.022	40.470	40.499	0.016	4.720	0.040	38.100
94	56	2.800	9.186	50.430	50.435	0.015	0.740	0.030	27.700
95	57	2.850	9.350	42.250	42.361	0.155	17.790	0.366	32.100
96	58	2.900	9.514	40.020	40.049	0.178	4.630	0.444	28.600
97	59	2.950	9.678	65.050	65.034	0.202	-2.490	0.311	31.200
98	60	3.000	9.842	85.030	85.088	0.152	9.290	0.179	19.600
99	61	3.050	10.006	90.570	91.221	0.240	104.250	0.263	25.300
100	62	3.100	10.170	56.280	56.300	0.473	3.190	0.840	19.400
101	63	3.150	10.335	85.060	85.067	0.306	1.110	0.360	24.000
102	64	3.200	10.499	68.180	68.295	0.013	18.450	0.019	24.000
103	65	3.250	10.663	59.430	59.525	0.014	15.240	0.024	17.800
104	66	3.300	10.827	64.340	64.396	0.014	9.020	0.022	22.300
105	67	3.350	10.991	63.700	63.714	0.298	2.260	0.468	29.400
106	68	3.400	11.155	66.290	66.320	0.652	4.850	0.983	25.300
107	69	3.450	11.319	72.720	72.792	0.636	11.560	0.874	26.500
108	70	3.500	11.483	75.030	75.125	0.341	15.280	0.454	32.100
109	71	3.550	11.647	70.690	70.754	0.235	10.230	0.332	31.800
110	72	3.600	11.811	67.720	67.762	0.420	6.760	0.620	31.700
111	73	3.650	11.975	57.500	57.635	0.378	21.590	0.656	39.000
112	74	3.700	12.139	46.610	46.612	0.252	0.260	0.541	28.200
113	75	3.750	12.303	40.430	40.439	0.071	1.480	0.176	40.500
114	76	3.800	12.467	52.410	52.435	0.089	3.970	0.170	21.600
115	77	3.850	12.631	83.430	83.432	0.193	0.270	0.231	19.700
116	78	3.900	12.795	79.510	79.518	0.275	1.330	0.346	18.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	54.020	54.081	0.309	9.790	0.571	14.500
118	80	4.000	13.123	45.910	45.982	0.297	11.610	0.646	18.100
119	81	4.050	13.287	61.800	61.796	0.050	-0.680	0.081	20.400
120	82	4.100	13.451	99.760	99.816	0.117	9.040	0.117	14.300
121	83	4.150	13.615	99.700	99.868	0.192	26.850	0.192	13.000
122	84	4.200	13.779	132.140	132.104	0.092	-5.810	0.070	15.000
123	85	4.250	13.943	130.460	130.871	0.297	65.850	0.227	17.100
124	86	4.300	14.107	96.790	96.786	0.652	-0.570	0.674	23.400
125	87	4.350	14.271	121.610	121.651	0.370	6.590	0.304	20.500
126	88	4.400	14.436	124.330	124.281	0.377	-7.910	0.303	24.000
127	89	4.450	14.600	106.210	106.330	0.612	19.210	0.576	26.000
128	90	4.500	14.764	82.480	82.452	0.495	-4.440	0.600	21.900
129	91	4.550	14.928	113.440	113.458	0.295	2.890	0.260	31.600
130	92	4.600	15.092	162.150	162.130	1.060	-3.190	0.654	24.400
131	93	4.650	15.256	142.010	142.068	0.670	9.320	0.472	33.800
132	94	4.700	15.420	115.810	115.912	1.018	16.360	0.878	39.100
133	95	4.750	15.584	88.270	88.474	1.133	32.610	1.281	30.000
134	96	4.800	15.748	99.610	99.722	0.011	17.940	0.011	24.100
135	97	4.850	15.912	129.330	129.929	0.015	95.970	0.012	26.700
136	98	4.900	16.076	133.070	133.178	0.313	17.330	0.235	22.000
137	99	4.950	16.240	112.100	112.128	0.482	4.500	0.430	29.300
138	100	5.000	16.404	89.600	89.698	0.706	15.620	0.787	32.300
139	101	5.050	16.568	87.770	87.768	0.405	-0.400	0.461	33.400
140	102	5.100	16.732	91.240	91.350	0.302	17.660	0.331	34.800
141	103	5.150	16.896	77.420	77.388	0.180	-5.170	0.233	29.700
142	104	5.200	17.060	80.120	80.155	0.084	5.550	0.105	32.200
143	105	5.250	17.224	90.980	90.979	0.015	-0.220	0.016	32.100
144	106	5.300	17.388	92.880	92.881	0.203	0.210	0.219	33.500
145	107	5.350	17.552	78.180	78.279	0.521	15.890	0.666	28.500
146	108	5.400	17.716	90.580	90.637	0.697	9.150	0.769	26.800
147	109	5.450	17.880	147.040	147.099	0.427	9.400	0.290	19.800
148	110	5.500	18.044	139.950	140.029	0.597	12.600	0.426	23.300
149	111	5.550	18.208	176.770	176.823	0.234	8.500	0.132	31.400
150	112	5.600	18.372	157.320	157.335	0.427	2.350	0.271	27.300
151	113	5.650	18.537	111.340	111.358	1.010	2.830	0.907	29.300
152	114	5.700	18.701	128.940	128.953	0.987	2.140	0.765	35.500
153	115	5.750	18.865	188.970	189.001	1.621	4.920	0.858	40.600
154	116	5.800	19.029	341.020	341.132	1.569	17.900	0.460	44.400
155	117	5.850	19.193	486.210	486.370	0.012	25.670	0.002	50.500
156	118	5.900	19.357	390.940	391.389	0.012	72.000	0.003	57.100
157	119	5.950	19.521	289.210	289.276	0.015	10.510	0.005	69.200
158	120	6.000	19.685	236.810	236.992	0.017	29.220	0.007	67.600
159	121	6.050	19.849	250.410	250.583	0.019	27.710	0.008	73.400
160	122	6.100	20.013	256.000	256.034	0.012	5.400	0.005	80.500
161	123	6.150	20.177	267.000	267.069	0.011	11.010	0.004	72.700
162	124	6.200	20.341	296.120	296.179	0.019	9.470	0.006	72.700
163	125	6.250	20.505	291.090	291.147	0.019	9.110	0.007	57.900
164	126	6.300	20.669	314.840	314.876	0.017	5.700	0.005	51.200
165	127	6.350	20.833	264.420	264.473	0.017	8.490	0.006	48.400
166	128	6.400	20.997	256.090	256.197	0.014	17.160	0.005	39.700
167	129	6.450	21.161	222.290	222.350	0.015	9.580	0.007	42.500
168	130	6.500	21.325	244.120	244.157	0.012	5.870	0.005	47.900
169	131	6.550	21.489	214.270	214.341	0.014	11.440	0.007	52.300
170	132	6.600	21.653	185.870	185.923	0.013	8.480	0.007	49.700
171	133	6.650	21.817	193.190	193.228	0.015	6.160	0.008	52.800
172	134	6.700	21.981	189.720	189.743	0.014	3.690	0.007	61.800
173	135	6.750	22.145	176.140	176.166	0.018	4.120	0.010	67.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	189.530	189.552	0.014	3.540	0.007	54.500
175	137	6.850	22.473	172.880	172.900	0.015	3.280	0.009	48.400
176	138	6.900	22.638	200.160	200.241	0.016	12.970	0.008	43.700
177	139	6.950	22.802	169.050	169.172	0.015	19.490	0.009	29.500
178	140	7.000	22.966	214.710	214.876	0.015	26.580	0.007	24.600
179	141	7.050	23.130	392.360	392.524	0.012	26.220	0.003	23.700
180	142	7.100	23.294	187.470	187.500	0.012	4.880	0.006	21.200
181	143	7.150	23.458	249.940	249.995	0.012	8.810	0.005	20.700
182	144	7.200	23.622	234.070	234.132	0.013	9.930	0.006	21.900
183	145	7.250	23.786	217.180	217.224	0.013	6.990	0.006	21.200
184	146	7.300	23.950	197.430	197.492	0.012	9.970	0.006	13.900
185	147	7.350	24.114	224.330	224.395	0.013	10.440	0.006	12.600
186	148	7.400	24.278	246.380	246.435	0.014	8.830	0.006	11.700
187	149	7.450	24.442	239.960	239.997	0.014	5.990	0.006	13.900
188	150	7.500	24.606	241.410	241.457	1.482	7.520	0.614	15.000
189	151	7.550	24.770	222.710	222.762	1.816	8.270	0.815	12.100
190	152	7.600	24.934	189.380	189.386	1.621	0.990	0.856	9.000
191	153	7.650	25.098	167.660	167.660	2.065	0.030	1.232	12.200
192	154	7.700	25.262	248.590	248.602	2.283	1.970	0.918	20.000
193	155	7.750	25.426	234.310	234.388	1.222	12.440	0.521	17.500
194	156	7.800	25.590	239.670	239.677	1.549	1.150	0.646	13.400
195	157	7.850	25.754	228.760	228.801	2.059	6.530	0.900	17.200
196	158	7.900	25.918	239.280	239.319	2.250	6.230	0.940	13.800
197	159	7.950	26.082	249.180	249.227	2.435	7.550	0.977	10.700
198	160	8.000	26.246	228.010	228.054	3.108	7.070	1.363	13.900
199	161	8.050	26.410	240.400	240.412	1.814	1.850	0.755	10.700
200	162	8.100	26.574	209.150	209.189	1.581	6.290	0.756	8.800
201	163	8.150	26.739	224.330	224.512	1.247	29.120	0.555	11.900
202	164	8.200	26.903	259.610	259.687	0.851	12.380	0.328	11.500
203	165	8.250	27.067	272.790	272.828	0.794	6.020	0.291	12.500
204	166	8.300	27.231	249.360	249.381	0.518	3.290	0.208	12.400
205	167	8.350	27.395	222.550	222.573	0.691	3.750	0.310	9.900
206	168	8.400	27.559	220.570	220.626	0.832	8.970	0.377	12.800
207	169	8.450	27.723	203.710	203.762	1.385	8.310	0.680	12.900
208	170	8.500	27.887	191.010	191.044	1.240	5.510	0.649	14.500
209	171	8.550	28.051	209.210	209.344	1.462	21.530	0.698	15.900
210	172	8.600	28.215	214.750	214.915	1.413	26.450	0.657	13.500
211	173	8.650	28.379	250.780	250.942	1.077	26.030	0.429	15.600
212	174	8.700	28.543	196.340	196.393	1.060	8.480	0.540	14.100
213	175	8.750	28.707	195.070	195.131	1.109	9.790	0.568	13.700
214	176	8.800	28.871	196.940	196.979	0.805	6.300	0.409	16.800
215	177	8.850	29.035	205.310	205.365	0.797	8.830	0.388	17.800
216	178	8.900	29.199	215.680	215.719	0.826	6.240	0.383	16.800
217	179	8.950	29.363	258.670	258.724	0.768	8.680	0.297	18.500
218	180	9.000	29.527	269.090	269.108	0.761	2.930	0.283	19.700
219	181	9.050	29.691	280.090	280.172	1.357	13.190	0.484	15.900
220	182	9.100	29.855	258.830	258.862	0.908	5.090	0.351	19.000
221	183	9.150	30.019	232.150	232.184	0.795	5.470	0.342	21.100
222	184	9.200	30.183	216.410	216.451	0.555	6.490	0.256	24.300
223	185	9.250	30.347	212.350	212.375	0.291	4.050	0.137	19.200
224	186	9.300	30.511	224.750	224.775	0.374	3.980	0.166	17.800
225	187	9.350	30.675	230.860	230.884	0.206	3.900	0.089	14.900
226	188	9.400	30.840	255.600	255.661	0.215	9.700	0.084	18.600
227	189	9.450	31.004	246.660	246.760	0.306	16.050	0.124	23.600
228	190	9.500	31.168	236.850	236.947	0.621	15.560	0.262	17.600
229	191	9.550	31.332	243.990	244.087	1.472	15.460	0.603	17.000
230	192	9.600	31.496	261.910	261.972	1.979	9.930	0.755	21.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	267.050	267.073	3.244	3.690	1.215	21.900
232	194	9.700	31.824	201.470	201.555	2.777	13.570	1.378	25.300
233	195	9.750	31.988	231.060	231.129	2.552	11.020	1.104	22.800
234	196	9.800	32.152	251.280	251.471	1.768	30.660	0.703	18.800
235	197	9.850	32.316	229.810	229.896	1.614	13.850	0.702	19.200
236	198	9.900	32.480	255.610	255.673	0.611	10.150	0.239	14.200
237	199	9.950	32.644	315.190	315.325	0.477	21.550	0.151	16.700
238	200	10.000	32.808	293.150	293.238	0.594	14.090	0.203	17.900
239	201	10.050	32.972	223.940	224.020	0.981	12.860	0.438	22.100
240	202	10.100	33.136	235.290	235.414	1.157	19.810	0.491	20.200
241	203	10.150	33.300	268.050	268.106	1.628	9.020	0.607	22.900
242	204	10.200	33.464	240.380	240.438	1.405	9.300	0.584	17.100
243	205	10.250	33.628	269.900	269.960	1.079	9.540	0.400	20.000
244	206	10.300	33.792	282.060	282.103	1.195	6.940	0.424	24.900
245	207	10.350	33.956	266.830	266.912	1.338	13.080	0.501	23.100
246	208	10.400	34.120	241.240	241.334	1.069	15.130	0.443	25.100
247	209	10.450	34.284	252.340	252.411	0.983	11.390	0.389	27.500
248	210	10.500	34.448	259.250	259.342	0.286	14.700	0.110	31.300
249	211	10.550	34.612	234.110	234.174	0.159	10.200	0.068	28.800
250	212	10.600	34.776	222.080	222.162	0.217	13.200	0.098	29.800
251	213	10.650	34.941	237.180	237.231	0.466	8.100	0.196	30.400
252	214	10.700	35.105	229.570	229.637	0.937	10.710	0.408	33.500
253	215	10.750	35.269	218.030	218.083	1.710	8.500	0.784	34.900
254	216	10.800	35.433	199.020	199.064	2.078	7.000	1.044	30.300
255	217	10.850	35.597	202.150	202.237	1.299	13.870	0.642	33.000
256	218	10.900	35.761	194.360	194.443	0.724	13.250	0.372	33.000
257	219	10.950	35.925	230.830	230.981	1.010	24.180	0.437	35.800
258	220	11.000	36.089	264.360	264.642	0.713	45.200	0.269	35.200
259	221	11.050	36.253	244.010	244.083	0.396	11.730	0.162	46.000
260	222	11.100	36.417	254.110	254.176	0.251	10.510	0.099	41.900
261	223	11.150	36.581	242.910	242.991	0.242	12.920	0.100	42.200
262	224	11.200	36.745	240.190	240.272	0.451	13.110	0.188	39.700
263	225	11.250	36.909	244.450	244.580	0.622	20.780	0.254	32.300
264	226	11.300	37.073	239.000	239.163	1.179	26.190	0.493	37.200
265	227	11.350	37.237	248.090	248.241	1.463	24.120	0.589	34.300
266	228	11.400	37.401	242.860	242.961	1.390	16.110	0.572	27.000
267	229	11.450	37.565	223.630	223.733	1.277	16.430	0.571	17.400
268	230	11.500	37.729	250.730	250.801	0.712	11.370	0.284	20.400
269	231	11.550	37.893	291.990	292.068	1.519	12.450	0.520	19.500
270	232	11.600	38.057	275.730	275.882	1.381	24.310	0.501	28.500
271	233	11.650	38.221	257.900	257.971	2.094	11.370	0.812	17.300
272	234	11.700	38.385	234.240	234.318	2.064	12.490	0.881	19.000
273	235	11.750	38.549	215.250	215.230	1.778	-3.270	0.826	24.400
274	236	11.800	38.713	202.300	202.399	2.151	15.790	1.063	17.900
275	237	11.850	38.877	228.860	228.970	2.128	17.640	0.929	16.900
276	238	11.900	39.042	235.660	235.734	2.341	11.890	0.993	14.500
277	239	11.950	39.206	193.400	193.563	2.631	26.060	1.359	18.500
278	240	12.000	39.370	205.860	205.847	2.608	-2.030	1.267	15.900
279	241	12.050	39.534	176.970	176.983	1.816	2.110	1.026	19.300
280	242	12.100	39.698	178.200	178.256	1.462	8.990	0.820	15.700
281	243	12.150	39.862	187.680	187.769	0.940	14.300	0.501	19.800
282	244	12.200	40.026	241.380	241.561	0.800	28.960	0.331	12.600
283	245	12.250	40.190	269.500	269.621	0.674	19.440	0.250	16.700
284	246	12.300	40.354	274.810	274.890	1.087	12.840	0.395	15.300
285	247	12.350	40.518	251.310	251.360	1.239	7.950	0.493	17.100
286	248	12.400	40.682	270.340	270.413	1.296	11.670	0.479	20.000
287	249	12.450	40.846	241.610	241.641	1.261	4.970	0.522	25.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	231.680	231.722	1.200	6.650	0.518	29.500
289	251	12.550	41.174	218.360	218.417	0.818	9.200	0.375	18.500
290	252	12.600	41.338	201.950	202.003	0.178	8.410	0.088	19.500
291	253	12.650	41.502	221.740	221.862	0.214	19.490	0.096	26.200
292	254	12.700	41.666	245.880	245.924	0.886	7.090	0.360	22.400
293	255	12.750	41.830	280.610	280.678	1.229	10.930	0.438	19.500
294	256	12.800	41.994	268.500	268.564	0.838	10.210	0.312	21.800
295	257	12.850	42.158	264.710	264.764	0.529	8.650	0.200	18.800
296	258	12.900	42.322	227.480	227.531	0.383	8.190	0.168	17.200
297	259	12.950	42.486	195.460	195.472	1.118	1.950	0.572	17.000
298	260	13.000	42.650	180.660	180.684	1.169	3.790	0.647	19.900
299	261	13.050	42.814	179.200	179.241	0.592	6.620	0.330	21.900
300	262	13.100	42.978	159.860	160.041	0.452	28.920	0.282	20.300
301	263	13.150	43.143	176.290	176.367	0.295	12.260	0.167	21.000
302	264	13.200	43.307	196.420	196.468	0.031	7.760	0.016	32.900
303	265	13.250	43.471	200.500	200.563	0.031	10.080	0.015	30.300
304	266	13.300	43.635	196.110	196.191	0.032	12.990	0.016	29.400
305	267	13.350	43.799	200.890	200.958	0.049	10.920	0.024	43.900
306	268	13.400	43.963	203.680	203.747	0.205	10.690	0.101	52.200
307	269	13.450	44.127	204.180	204.251	0.226	11.420	0.111	58.400
308	270	13.500	44.291	206.590	206.735	0.292	23.260	0.141	69.300
309	271	13.550	44.455	220.370	220.598	0.333	36.470	0.151	61.700
310	272	13.600	44.619	236.240	236.432	0.381	30.710	0.161	74.000
311	273	13.650	44.783	243.860	244.048	0.394	30.120	0.161	74.500
312	274	13.700	44.947	246.910	247.049	0.451	22.230	0.183	61.800
313	275	13.750	45.111	237.300	237.408	0.321	17.340	0.135	66.300
314	276	13.800	45.275	237.890	237.972	0.163	13.110	0.068	65.500
315	277	13.850	45.439	248.370	248.467	0.066	15.500	0.027	62.400
316	278	13.900	45.603	252.820	252.913	0.037	14.940	0.015	61.600
317	279	13.950	45.767	245.910	245.979	0.037	11.100	0.015	64.900
318	280	14.000	45.931	240.780	240.885	0.077	16.780	0.032	66.100
319	281	14.050	46.095	253.310	253.440	0.042	20.780	0.017	67.700
320	282	14.100	46.259	239.850	239.943	0.607	14.900	0.253	65.600
321	283	14.150	46.423	227.310	227.518	1.255	33.300	0.552	54.900
322	284	14.200	46.587	226.310	226.503	1.689	30.860	0.746	54.600
323	285	14.250	46.751	198.820	199.037	1.058	34.750	0.532	51.500
324	286	14.300	46.915	187.490	187.716	0.503	36.180	0.268	61.600
325	287	14.350	47.079	195.510	195.588	0.040	12.520	0.020	61.500
326	288	14.400	47.244	220.760	220.861	0.038	16.230	0.017	66.300
327	289	14.450	47.408	223.720	223.803	0.038	13.310	0.017	82.000
328	290	14.500	47.572	188.210	188.281	0.041	11.300	0.022	79.200
329	291	14.550	47.736	171.430	171.491	0.041	9.780	0.024	68.400
330	292	14.600	47.900	153.720	153.796	0.041	12.210	0.027	76.600
331	293	14.650	48.064	158.540	158.627	0.043	13.890	0.027	78.900
332	294	14.700	48.228	160.590	160.662	0.043	11.600	0.027	80.800
333	295	14.750	48.392	155.990	156.055	0.044	10.420	0.028	81.700
334	296	14.800	48.556	159.130	159.196	0.043	10.620	0.027	79.100
335	297	14.850	48.720	160.470	160.536	0.045	10.590	0.028	80.800
336	298	14.900	48.884	161.130	161.199	0.045	11.000	0.028	86.600
337	299	14.950	49.048	156.670	156.736	0.044	10.520	0.028	74.100
338	300	15.000	49.212	151.510	151.578	0.045	10.880	0.030	84.000
339	301	15.050	49.376	141.770	141.833	0.045	10.110	0.032	73.300
340	302	15.100	49.540	140.250	140.320	0.044	11.260	0.031	84.700
341	303	15.150	49.704	135.360	135.430	0.049	11.260	0.036	69.200
342	304	15.200	49.868	129.800	129.876	0.046	12.220	0.035	69.700
343	305	15.250	50.032	128.680	128.757	0.046	12.350	0.036	79.000
344	306	15.300	50.196	122.820	122.896	0.048	12.180	0.039	78.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	117.440	117.510	0.047	11.170	0.040	59.600
346	308	15.400	50.524	120.090	120.151	0.049	9.840	0.041	55.200
347	309	15.450	50.688	107.220	107.246	0.320	4.120	0.298	61.300
348	310	15.500	50.852	126.020	126.026	0.051	0.920	0.040	53.800
349	311	15.550	51.016	154.930	155.080	0.052	24.100	0.034	34.500
350	312	15.600	51.180	176.990	177.083	0.051	14.970	0.029	45.300
351	313	15.650	51.345	138.670	138.754	0.051	13.470	0.037	41.100
352	314	15.700	51.509	126.560	126.604	0.052	7.040	0.041	51.100
353	315	15.750	51.673	107.870	107.905	0.052	5.540	0.048	39.300
354	316	15.800	51.837	108.900	108.926	0.052	4.230	0.048	36.100
355	317	15.850	52.001	118.560	118.606	0.052	7.350	0.044	39.100
356	318	15.900	52.165	126.560	126.608	0.052	7.670	0.041	42.600
357	319	15.950	52.329	161.770	161.856	0.053	13.820	0.033	47.300
358	320	16.000	52.493	158.780	158.862	0.054	13.180	0.034	55.000
359	321	16.050	52.657	157.160	157.224	0.053	10.200	0.034	60.000
360	322	16.100	52.821	158.640	158.701	0.053	9.810	0.033	60.500
361	323	16.150	52.985	168.380	168.458	0.054	12.560	0.032	62.400
362	324	16.200	53.149	166.630	166.710	0.054	12.860	0.032	64.200
363	325	16.250	53.313	186.530	186.622	0.053	14.680	0.028	69.200
364	326	16.300	53.477	178.900	178.956	0.054	8.930	0.030	65.000
365	327	16.350	53.641	172.360	172.416	0.054	9.010	0.031	66.300
366	328	16.400	53.805	169.730	169.807	0.150	12.330	0.088	60.700
367	329	16.450	53.969	169.440	169.523	0.164	13.260	0.097	50.100
368	330	16.500	54.133	172.630	172.730	0.916	15.990	0.530	43.500
369	331	16.550	54.297	181.020	181.236	1.952	34.630	1.077	34.200
370	332	16.600	54.461	180.890	181.151	2.338	41.840	1.291	35.400
371	333	16.650	54.625	188.660	188.831	1.457	27.320	0.772	35.100
372	334	16.700	54.789	169.670	169.991	0.753	51.380	0.443	37.900
373	335	16.750	54.953	183.460	183.562	0.139	16.330	0.076	28.300
374	336	16.800	55.117	221.240	221.330	0.463	14.380	0.209	26.800
375	337	16.850	55.281	214.720	214.792	0.289	11.500	0.135	26.000
376	338	16.900	55.446	183.260	183.351	0.100	14.550	0.055	27.300
377	339	16.950	55.610	188.040	188.130	0.058	14.380	0.031	25.900
378	340	17.000	55.774	182.740	182.820	0.058	12.890	0.032	28.400
379	341	17.050	55.938	183.390	183.486	0.058	15.420	0.032	32.500
380	342	17.100	56.102	186.130	186.242	0.857	17.930	0.460	26.900
381	343	17.150	56.266	184.370	184.493	1.809	19.660	0.981	26.600
382	344	17.200	56.430	192.970	193.053	1.398	13.320	0.724	36.100
383	345	17.250	56.594	194.650	194.739	0.365	14.300	0.187	34.900
384	346	17.300	56.758	186.220	186.357	0.519	21.880	0.278	43.600
385	347	17.350	56.922	193.370	193.487	1.524	18.770	0.788	34.000
386	348	17.400	57.086	191.600	191.685	2.352	13.640	1.227	33.200
387	349	17.450	57.250	167.830	167.918	2.655	14.020	1.581	39.400
388	350	17.500	57.414	211.740	211.828	1.864	14.110	0.880	43.200
389	351	17.550	57.578	242.700	242.796	2.111	15.320	0.869	45.400
390	352	17.600	57.742	272.800	273.060	1.245	41.670	0.456	44.300
391	353	17.650	57.906	249.840	250.007	0.299	26.770	0.120	47.500
392	354	17.700	58.070	257.510	257.657	0.060	23.560	0.023	51.000
393	355	17.750	58.234	259.410	259.479	0.059	11.000	0.023	53.700
394	356	17.800	58.398	259.640	259.723	0.059	13.340	0.023	51.100
395	357	17.850	58.562	255.790	255.879	0.058	14.260	0.023	52.400
396	358	17.900	58.726	204.660	204.705	0.059	7.250	0.029	69.400
397	359	17.950	58.890	169.400	169.448	0.059	7.680	0.035	57.600
398	360	18.000	59.054	150.590	150.678	0.057	14.130	0.038	67.200
399	361	18.050	59.218	143.730	143.856	0.056	20.250	0.039	73.000
400	362	18.100	59.382	148.200	148.330	0.057	20.860	0.038	69.000
401	363	18.150	59.547	144.870	145.009	0.055	22.240	0.038	70.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	145.570	145.716	0.054	23.400	0.037	82.900
403	365	18.250	59.875	137.880	138.016	0.053	21.830	0.038	73.300
404	366	18.300	60.039	128.890	128.996	0.055	16.900	0.043	72.600
405	367	18.350	60.203	130.050	130.172	0.054	19.520	0.041	74.800
406	368	18.400	60.367	131.930	132.086	0.054	24.950	0.041	68.400
407	369	18.450	60.531	138.360	138.568	0.054	33.280	0.039	73.600
408	370	18.500	60.695	137.360	137.493	0.054	21.360	0.039	83.700
409	371	18.550	60.859	136.400	136.539	0.055	22.280	0.040	72.600
410	372	18.600	61.023	137.070	137.302	0.057	37.220	0.042	75.700
411	373	18.650	61.187	156.090	156.358	0.062	42.980	0.040	71.100
412	374	18.700	61.351	198.230	198.619	0.254	62.300	0.128	78.700
413	375	18.750	61.515	236.000	236.223	0.858	35.690	0.363	71.800
414	376	18.800	61.679	257.560	257.780	1.454	35.240	0.564	70.200
415	377	18.850	61.843	260.420	260.629	1.801	33.410	0.691	69.400
416	378	18.900	62.007	269.340	269.516	2.252	28.180	0.836	72.000
417	379	18.950	62.171	272.250	272.481	3.663	37.070	1.344	72.100
418	380	19.000	62.335	281.410	281.620	2.019	33.590	0.717	70.500
419	381	19.050	62.499	414.660	414.757	1.586	15.540	0.382	59.300
420	382	19.100	62.663	513.590	513.756	2.573	26.580	0.501	58.700
421	383	19.150	62.827	474.150	474.299	2.758	23.850	0.581	63.700
422	384	19.200	62.991	436.790	436.917	2.567	20.420	0.588	71.200
423	385	19.250	63.155	454.870	455.031	3.063	25.740	0.673	71.600
424	386	19.300	63.319	445.580	445.704	2.945	19.800	0.661	71.400
425	387	19.350	63.483	417.180	417.294	2.324	18.240	0.557	81.500
426	388	19.400	63.648	419.770	419.893	1.591	19.660	0.379	67.800
427	389	19.450	63.812	424.990	425.118	3.559	20.470	0.837	73.100
428	390	19.500	63.976	461.410	461.561	6.068	24.210	1.315	63.400
429	391	19.550	64.140	396.800	396.807	4.527	1.150	1.141	76.400
430	392	19.600	64.304	271.070	271.077	5.128	1.200	1.892	62.300
431	393	19.650	64.468	235.690	235.722	5.053	5.070	2.144	70.500
432	394	19.700	64.632	311.750	311.910	3.800	25.610	1.218	67.500
433	395	19.750	64.796	284.050	284.082	3.902	5.100	1.374	68.100
434	396	19.800	64.960	258.290	258.400	4.407	17.620	1.705	68.600
435	397	19.850	65.124	276.390	276.618	4.235	36.450	1.531	72.600
436	398	19.900	65.288	263.050	263.363	4.028	50.100	1.529	68.500
437	399	19.950	65.452	249.180	249.321	3.958	22.590	1.588	72.800
438	400	20.000	65.616	215.670	216.700	4.110	165.050	1.897	73.400
439	401	20.050	65.780	159.250	159.474	3.158	35.860	1.980	70.200
440	402	20.100	65.944	86.730	86.840	2.037	17.630	2.346	68.100
441	403	20.150	66.108	59.960	60.015	1.528	8.760	2.546	67.800
442	404	20.200	66.272	49.840	49.906	1.421	10.560	2.847	60.100
443	405	20.250	66.436	51.090	51.132	1.621	6.750	3.170	58.400
444	406	20.300	66.600	75.710	75.768	2.100	9.250	2.772	59.400
445	407	20.350	66.764	65.430	65.493	2.043	10.080	3.119	50.500
446	408	20.400	66.928	60.190	60.240	1.388	8.010	2.304	56.000
447	409	20.450	67.092	55.890	55.916	1.885	4.210	3.371	53.500
448	410	20.500	67.256	49.170	49.195	1.233	4.080	2.506	47.800
449	411	20.550	67.420	83.770	83.788	0.567	2.850	0.677	60.000
450	412	20.600	67.584	142.840	142.862	0.656	3.490	0.459	47.900
451	413	20.650	67.749	168.090	168.093	0.239	0.410	0.142	52.100
452	414	20.700	67.913	177.840	177.841	0.173	0.220	0.097	53.100
453	415	20.750	68.077	190.920	190.928	0.258	1.260	0.135	59.500
454	416	20.800	68.241	162.300	162.291	0.246	-1.440	0.152	54.900
455	417	20.850	68.405	137.210	137.200	0.276	-1.550	0.201	65.200
456	418	20.900	68.569	117.870	117.855	0.233	-2.400	0.198	69.300
457	419	20.950	68.733	104.000	103.985	0.170	-2.360	0.163	60.600
458	420	21.000	68.897	104.040	104.027	0.071	-2.120	0.068	64.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	105.930	105.915	0.305	-2.470	0.288	67.500
460	422	21.100	69.225	113.360	113.341	0.340	-3.020	0.300	54.200
461	423	21.150	69.389	132.310	132.301	0.478	-1.380	0.361	67.200
462	424	21.200	69.553	143.600	143.594	0.546	-1.020	0.380	65.800
463	425	21.250	69.717	149.310	149.299	0.452	-1.740	0.303	59.900
464	426	21.300	69.881	146.320	146.303	0.253	-2.680	0.173	64.400
465	427	21.350	70.045	134.680	134.662	0.151	-2.820	0.112	74.500
466	428	21.400	70.209	122.870	122.851	0.158	-3.080	0.129	68.100
467	429	21.450	70.373	128.440	128.428	0.111	-1.910	0.086	68.300
468	430	21.500	70.537	125.490	125.473	0.274	-2.660	0.218	76.800
469	431	21.550	70.701	132.140	132.129	0.159	-1.700	0.120	86.000
470	432	21.600	70.865	158.520	158.508	0.209	-1.950	0.132	77.900
471	433	21.650	71.029	164.120	164.114	0.238	-0.890	0.145	71.400
472	434	21.700	71.193	158.700	158.688	0.104	-1.990	0.066	74.100
473	435	21.750	71.357	138.560	138.536	0.278	-3.900	0.201	82.600
474	436	21.800	71.521	120.810	120.787	0.434	-3.660	0.359	71.800
475	437	21.850	71.685	103.520	103.501	0.394	-2.980	0.381	85.300
476	438	21.900	71.850	93.430	93.406	0.323	-3.770	0.346	73.800
477	439	21.950	72.014	90.540	90.517	0.255	-3.640	0.282	81.700
478	440	22.000	72.178	94.070	94.059	0.273	-1.830	0.290	83.500
479	441	22.050	72.342	110.100	110.099	0.375	-0.210	0.341	75.400
480	442	22.100	72.506	131.450	131.464	0.450	2.180	0.342	78.600
481	443	22.150	72.670	166.080	166.089	0.467	1.500	0.281	84.600
482	444	22.200	72.834	193.760	193.770	0.373	1.570	0.192	83.700
483	445	22.250	72.998	197.510	197.507	0.332	-0.480	0.168	82.600
484	446	22.300	73.162	195.110	195.102	0.342	-1.330	0.175	84.300
485	447	22.350	73.326	200.400	200.391	0.323	-1.480	0.161	76.800
486	448	22.400	73.490	209.560	209.552	0.323	-1.210	0.154	78.200
487	449	22.450	73.654	222.490	222.480	0.448	-1.560	0.201	74.300
488	450	22.500	73.818	237.810	237.801	0.858	-1.480	0.361	86.700
489	451	22.550	73.982	263.230	263.228	1.426	-0.270	0.542	79.900
490	452	22.600	74.146	297.890	297.914	1.780	3.870	0.597	91.800
491	453	22.650	74.310	286.560	286.578	1.971	2.830	0.688	83.800
492	454	22.700	74.474	263.280	263.291	2.211	1.700	0.840	77.100
493	455	22.750	74.638	249.370	249.367	2.244	-0.440	0.900	86.000
494	456	22.800	74.802	234.730	234.706	2.596	-3.890	1.106	72.600
495	457	22.850	74.966	243.380	243.375	3.146	-0.750	1.293	77.400
496	458	22.900	75.130	258.370	258.371	3.220	0.210	1.246	67.900
497	459	22.950	75.294	266.020	266.003	2.956	-2.730	1.111	74.800
498	460	23.000	75.458	262.290	262.264	3.081	-4.130	1.175	64.600
499	461	23.050	75.622	262.420	262.416	3.099	-0.600	1.181	81.900
500	462	23.100	75.786	264.530	264.526	2.281	-0.650	0.862	66.700
501	463	23.150	75.951	279.680	279.700	1.585	3.140	0.567	69.300
502	464	23.200	76.115	285.770	285.810	1.907	6.440	0.667	72.500
503	465	23.250	76.279	285.100	285.118	1.393	2.920	0.489	62.500
504	466	23.300	76.443	269.520	269.511	2.275	-1.490	0.844	66.500
505	467	23.350	76.607	278.000	278.010	2.438	1.660	0.877	74.500
506	468	23.400	76.771	275.230	275.245	3.137	2.480	1.140	68.700
507	469	23.450	76.935	263.540	263.550	2.534	1.550	0.961	63.700
508	470	23.500	77.099	272.160	272.093	1.492	-10.770	0.548	64.500
509	471	23.550	77.263	191.840	191.853	1.453	2.070	0.757	63.100
510	472	23.600	77.427	126.780	126.887	2.535	17.190	1.998	70.500
511	473	23.650	77.591	107.430	107.498	2.002	10.870	1.862	58.500
512	474	23.700	77.755	116.880	116.998	2.173	18.880	1.857	66.400
513	475	23.750	77.919	122.370	122.432	2.367	9.970	1.933	60.800
514	476	23.800	78.083	116.100	116.193	2.326	14.870	2.002	73.100
515	477	23.850	78.247	90.340	90.433	2.344	14.960	2.592	72.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	93.230	93.350	2.413	19.300	2.585	69.700
517	479	23.950	78.575	98.090	98.209	2.548	19.130	2.594	70.400
518	480	24.000	78.739	87.720	87.874	2.375	24.680	2.703	69.000
519	481	24.050	78.903	81.750	81.849	2.257	15.860	2.758	62.700
520	482	24.100	79.067	77.480	77.560	2.148	12.780	2.769	60.200
521	483	24.150	79.231	65.280	65.351	1.834	11.350	2.806	63.200
522	484	24.200	79.395	55.160	55.313	2.017	24.540	3.647	51.600
523	485	24.250	79.559	61.960	62.027	1.935	10.660	3.120	51.600
524	486	24.300	79.723	53.460	54.156	2.839	111.490	5.242	40.500
525	487	24.350	79.887	50.370	50.605	2.942	37.720	5.814	40.300
526	488	24.400	80.052	106.000	106.173	2.218	27.760	2.089	46.800
527	489	24.450	80.216	127.030	127.374	3.037	55.110	2.384	41.500
528	490	24.500	80.380	81.200	81.293	3.438	14.850	4.229	42.200
529	491	24.550	80.544	57.730	57.792	2.349	10.000	4.065	39.100
530	492	24.600	80.708	67.110	67.188	1.546	12.490	2.301	48.000
531	493	24.650	80.872	78.570	78.650	1.589	12.870	2.020	45.000
532	494	24.700	81.036	68.050	68.092	2.053	6.770	3.015	34.700
533	495	24.750	81.200	80.830	80.861	2.878	4.940	3.559	38.200
534	496	24.800	81.364	74.910	74.916	2.160	1.040	2.883	36.400
535	497	24.850	81.528	81.110	81.161	2.025	8.120	2.495	37.800
536	498	24.900	81.692	86.160	86.201	1.834	6.510	2.128	32.000
537	499	24.950	81.856	84.980	85.021	1.653	6.540	1.944	35.800
538	500	25.000	82.020	77.480	77.543	1.720	10.060	2.218	38.100
539	501	25.050	82.184	53.410	53.440	1.646	4.740	3.080	31.100
540	502	25.100	82.348	50.780	50.826	1.381	7.370	2.717	41.500
541	503	25.150	82.512	44.350	44.406	1.352	8.990	3.045	42.200
542	504	25.200	82.676	46.740	46.785	1.278	7.140	2.732	35.800
543	505	25.250	82.840	42.550	42.620	1.426	11.160	3.346	38.400
544	506	25.300	83.004	28.520	28.569	1.742	7.900	6.097	44.000
545	507	25.350	83.168	56.840	57.028	1.881	30.140	3.298	46.200
546	508	25.400	83.332	52.220	52.274	1.823	8.730	3.487	40.700
547	509	25.450	83.496	40.020	40.082	1.713	9.960	4.274	43.400
548	510	25.500	83.660	33.070	33.111	1.368	6.610	4.132	34.300
549	511	25.550	83.824	45.720	45.812	1.323	14.690	2.888	41.700
550	512	25.600	83.988	47.050	47.106	1.231	8.970	2.613	35.300
551	513	25.650	84.153	38.090	38.126	1.352	5.750	3.546	49.700
552	514	25.700	84.317	39.710	39.798	1.247	14.130	3.133	44.000
553	515	25.750	84.481	31.510	31.779	1.222	43.080	3.845	42.900
554	516	25.800	84.645	29.810	29.961	1.044	24.110	3.485	40.900
555	517	25.850	84.809	51.620	51.643	1.227	3.690	2.376	40.100
556	518	25.900	84.973	30.030	30.308	1.376	44.510	4.540	45.900
557	519	25.950	85.137	32.260	32.377	1.337	18.690	4.130	47.900
558	520	26.000	85.301	32.420	32.534	1.121	18.260	3.446	41.700
559	521	26.050	85.465	28.210	28.239	1.253	4.690	4.437	39.100
560	522	26.100	85.629	27.540	27.635	1.285	15.250	4.650	41.800
561	523	26.150	85.793	28.550	28.732	1.471	29.210	5.120	38.000
562	524	26.200	85.957	29.610	30.131	1.589	83.490	5.274	41.600
563	525	26.250	86.121	33.950	34.595	1.836	103.400	5.307	45.200
564	526	26.300	86.285	35.390	35.639	1.902	39.920	5.337	42.600
565	527	26.350	86.449	57.720	57.803	1.923	13.260	3.327	32.200
566	528	26.400	86.613	93.450	93.712	2.038	41.990	2.175	37.300
567	529	26.450	86.777	89.570	89.728	2.022	25.310	2.253	41.600
568	530	26.500	86.941	74.890	74.927	2.422	5.980	3.232	32.700
569	531	26.550	87.105	101.060	101.088	1.747	4.520	1.728	39.400
570	532	26.600	87.269	116.380	116.448	1.630	10.920	1.400	48.200
571	533	26.650	87.433	122.700	122.780	2.231	12.740	1.817	43.500
572	534	26.700	87.597	85.170	85.290	2.660	19.180	3.119	44.700

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
573	535	26.750	87.761	66.110	66.543	2.840	69.400	4.268	50.300
574	536	26.800	87.925	63.730	64.237	2.550	81.280	3.970	48.200
575	537	26.850	88.089	64.740	64.878	2.821	22.120	4.348	45.300
576	538	26.900	88.254	55.420	55.470	2.647	8.060	4.772	47.600
577	539	26.950	88.418	48.430	48.504	2.237	11.900	4.612	43.700
578	540	27.000	88.582	65.520	65.677	1.819	25.180	2.770	44.000
579	541	27.050	88.746	60.510	60.561	1.749	8.200	2.888	48.300
580	542	27.100	88.910	52.420	52.449	1.766	4.590	3.367	47.900
581	543	27.150	89.074	40.930	40.953	1.668	3.740	4.073	46.000
582	544	27.200	89.238	40.550	40.687	1.632	22.020	4.011	50.900
583	545	27.250	89.402	34.400	34.448	1.624	7.730	4.714	55.200
584	546	27.300	89.566	33.000	33.177	1.656	28.390	4.991	60.100
585	547	27.350	89.730	37.840	38.270	1.731	68.900	4.523	57.000
586	548	27.400	89.894	42.920	43.160	1.599	38.370	3.705	50.000
587	549	27.450	90.058	36.360	36.535	1.413	28.050	3.868	61.400
588	550	27.500	90.222	37.680	37.791	1.367	17.810	3.617	58.400
589	551	27.550	90.386	39.060	39.085	1.342	3.930	3.434	68.500
590	552	27.600	90.550	33.350	33.491	1.327	22.540	3.962	57.900
591	553	27.650	90.714	32.150	32.562	1.290	66.040	3.962	78.500
592	554	27.700	90.878	35.180	35.647	1.173	74.820	3.291	58.700
593	555	27.750	91.042	39.460	39.646	1.262	29.770	3.183	67.100
594	556	27.800	91.206	38.580	38.651	1.429	11.390	3.697	69.800
595	557	27.850	91.370	37.700	37.848	1.516	23.640	4.006	67.400
596	558	27.900	91.534	37.210	37.499	1.580	46.330	4.213	65.800
597	559	27.950	91.698	42.750	42.899	1.528	23.930	3.562	69.900
598	560	28.000	91.862	50.900	51.084	1.411	29.520	2.762	59.700
599	561	28.050	92.026	68.480	68.514	1.509	5.450	2.202	67.700
600	562	28.100	92.190	60.340	60.373	1.425	5.350	2.360	70.500
601	563	28.150	92.355	65.730	65.775	1.566	7.280	2.381	59.600
602	564	28.200	92.519	69.860	69.904	1.725	7.090	2.468	60.800
603	565	28.250	92.683	62.550	62.606	1.694	9.050	2.706	68.000
604	566	28.300	92.847	64.150	64.223	1.615	11.660	2.515	74.100
605	567	28.350	93.011	65.370	65.424	1.523	8.680	2.328	58.700
606	568	28.400	93.175	59.490	59.528	1.681	6.010	2.824	60.200
607	569	28.450	93.339	60.770	60.834	1.691	10.200	2.780	72.700
608	570	28.500	93.503	68.470	68.555	1.594	13.540	2.325	65.100
609	571	28.550	93.667	70.340	70.406	1.652	10.500	2.346	73.900
610	572	28.600	93.831	61.210	61.259	1.813	7.790	2.960	75.400
611	573	28.650	93.995	63.680	63.854	2.092	27.810	3.276	77.700
612	574	28.700	94.159	69.050	69.329	2.445	44.760	3.527	74.900
613	575	28.750	94.323	64.850	65.004	2.566	24.630	3.947	0.000
614	576	28.800	94.487	64.280	64.445	2.546	26.360	3.951	0.000
615	577	28.850	94.651	68.160	68.439	2.512	44.620	3.670	0.000
616	578	28.900	94.815	73.890	74.108	2.522	34.980	3.403	0.000
617	579	28.950	94.979	80.200	80.280	2.356	12.760	2.935	0.000
618	580	29.000	95.143	82.560	82.604	2.236	6.970	2.707	0.000
619	581	29.050	95.307	80.120	80.153	2.172	5.260	2.710	0.000
620	582	29.100	95.471	79.230	79.268	2.350	6.090	2.965	0.000
621	583	29.150	95.635	75.770	75.813	2.508	6.860	3.308	0.000
622	584	29.200	95.799	70.330	70.387	2.769	9.080	3.934	0.000
623	585	29.250	95.963	71.980	72.061	2.933	12.980	4.070	0.000
624	586	29.300	96.127	80.510	80.622	3.105	17.890	3.851	0.000
625	587	29.350	96.291	106.940	107.140	3.792	31.970	3.539	0.000
626	588	29.400	96.456	116.040	116.191	5.673	24.170	4.882	0.000
627	589	29.450	96.620	115.840	116.015	5.682	28.100	4.898	0.000
628	590	29.500	96.784	177.650	177.971	0.000	51.410	0.000	0.000
629	591	29.550	96.948	218.960	219.003	0.000	6.820	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272418				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GC PT15-1D-15				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-19-2015				
14		CPT Time:			10:09				
15		CPT File:			15-53039_GP1D-15.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722122.314				
31		Northing / Lat:			4294171.225				
32		Elevation:			157.390				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	18.170	18.169	0.062	-0.110	0.341	17.000
40	2	0.100	0.328	34.420	34.437	0.196	2.660	0.569	29.800
41	3	0.150	0.492	40.160	40.163	0.044	0.550	0.110	31.500
42	4	0.200	0.656	27.770	27.836	0.203	10.560	0.729	24.800
43	5	0.250	0.820	40.000	39.989	0.138	-1.770	0.345	45.400
44	6	0.300	0.984	71.910	71.957	0.223	7.510	0.310	63.900
45	7	0.350	1.148	12.990	12.994	0.341	0.600	2.624	62.700
46	8	0.400	1.312	20.200	20.258	0.391	9.350	1.930	73.900
47	9	0.450	1.476	29.250	29.279	0.407	4.580	1.390	88.400
48	10	0.500	1.640	49.000	48.988	0.417	-1.880	0.851	94.800
49	11	0.550	1.804	56.240	56.223	0.376	-2.730	0.669	90.200
50	12	0.600	1.968	56.110	56.110	0.396	0.080	0.706	75.500
51	13	0.650	2.133	55.220	55.208	0.380	-1.970	0.688	82.800
52	14	0.700	2.297	53.480	53.491	0.375	1.770	0.701	89.700
53	15	0.750	2.461	50.790	50.795	0.396	0.870	0.780	89.700
54	16	0.800	2.625	44.870	44.884	0.512	2.190	1.141	86.300
55	17	0.850	2.789	44.280	44.285	0.582	0.850	1.314	90.300
56	18	0.900	2.953	41.210	41.313	0.644	16.530	1.559	89.900
57	19	0.950	3.117	36.600	36.696	0.677	15.350	1.845	87.800
58	20	1.000	3.281	33.260	33.287	0.604	4.270	1.815	76.700
59	21	1.050	3.445	29.410	29.382	0.658	-4.410	2.239	74.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	24.400	24.379	0.564	-3.410	2.313	64.600
61	23	1.150	3.773	23.220	23.203	0.535	-2.680	2.306	59.000
62	24	1.200	3.937	35.120	35.158	0.520	6.020	1.479	46.100
63	25	1.250	4.101	56.220	56.340	1.010	19.190	1.793	25.200
64	26	1.300	4.265	62.600	62.718	1.108	18.980	1.767	29.700
65	27	1.350	4.429	51.090	51.170	1.246	12.840	2.435	18.700
66	28	1.400	4.593	63.550	63.560	0.709	1.660	1.115	22.300
67	29	1.450	4.757	28.100	28.131	0.495	4.960	1.760	20.700
68	30	1.500	4.921	100.260	100.261	0.606	0.240	0.604	29.900
69	31	1.550	5.085	173.750	173.874	0.788	19.910	0.453	19.500
70	32	1.600	5.249	36.350	36.394	1.040	7.000	2.858	21.900
71	33	1.650	5.413	25.550	25.554	0.706	0.710	2.763	30.800
72	34	1.700	5.577	26.510	26.506	0.337	-0.590	1.271	33.800
73	35	1.750	5.741	44.860	44.854	0.694	-0.920	1.547	46.800
74	36	1.800	5.905	134.760	134.811	1.174	8.120	0.871	46.600
75	37	1.850	6.069	154.100	154.127	1.571	4.290	1.019	55.700
76	38	1.900	6.234	42.370	42.393	1.272	3.620	3.001	68.300
77	39	1.950	6.398	33.060	33.103	0.781	6.960	2.359	69.300
78	40	2.000	6.562	24.140	24.123	0.737	-2.720	3.055	77.300
79	41	2.050	6.726	18.170	18.161	0.516	-1.400	2.841	74.900
80	42	2.100	6.890	17.820	17.930	0.686	17.650	3.826	74.100
81	43	2.150	7.054	31.080	31.274	0.753	31.110	2.408	77.600
82	44	2.200	7.218	24.260	24.302	0.773	6.690	3.181	89.000
83	45	2.250	7.382	27.240	27.278	0.748	6.110	2.742	101.400
84	46	2.300	7.546	21.770	21.756	0.665	-2.200	3.057	87.100
85	47	2.350	7.710	16.540	16.534	0.569	-1.030	3.441	89.600
86	48	2.400	7.874	14.110	14.114	0.455	0.660	3.224	88.300
87	49	2.450	8.038	13.880	13.906	0.465	4.120	3.344	77.300
88	50	2.500	8.202	15.550	15.621	0.446	11.450	2.855	83.500
89	51	2.550	8.366	16.460	16.527	0.494	10.810	2.989	67.800
90	52	2.600	8.530	25.890	25.954	0.586	10.180	2.258	62.300
91	53	2.650	8.694	39.100	39.167	0.966	10.800	2.466	50.000
92	54	2.700	8.858	47.130	47.153	0.998	3.690	2.117	31.100
93	55	2.750	9.022	64.940	64.963	1.337	3.670	2.058	32.100
94	56	2.800	9.186	63.940	63.970	1.181	4.820	1.846	38.300
95	57	2.850	9.350	70.240	70.268	1.442	4.530	2.052	33.000
96	58	2.900	9.514	93.820	93.796	2.290	-3.790	2.441	35.300
97	59	2.950	9.678	84.300	84.300	2.042	-0.020	2.422	32.800
98	60	3.000	9.842	73.480	73.553	1.755	11.620	2.386	31.900
99	61	3.050	10.006	126.580	126.606	1.440	4.160	1.137	26.100
100	62	3.100	10.170	78.510	78.716	1.935	33.030	2.458	30.100
101	63	3.150	10.335	103.890	103.936	1.859	7.380	1.789	24.700
102	64	3.200	10.499	64.450	64.579	1.591	20.670	2.464	25.000
103	65	3.250	10.663	82.710	82.762	1.324	8.370	1.600	27.100
104	66	3.300	10.827	62.550	62.550	1.584	-0.060	2.532	23.700
105	67	3.350	10.991	58.160	58.164	1.472	0.620	2.531	19.600
106	68	3.400	11.155	20.440	20.447	1.751	1.050	8.564	17.200
107	69	3.450	11.319	69.590	69.595	1.658	0.740	2.382	14.500
108	70	3.500	11.483	110.580	110.609	1.430	4.660	1.293	16.700
109	71	3.550	11.647	74.310	74.295	1.407	-2.430	1.894	18.900
110	72	3.600	11.811	75.020	75.028	1.234	1.240	1.645	24.300
111	73	3.650	11.975	86.310	86.299	0.893	-1.760	1.035	16.600
112	74	3.700	12.139	48.730	48.774	1.075	6.970	2.204	13.800
113	75	3.750	12.303	68.530	68.579	0.837	7.810	1.220	15.200
114	76	3.800	12.467	63.680	63.744	0.956	10.330	1.500	17.900
115	77	3.850	12.631	95.760	95.785	1.069	4.000	1.116	15.600
116	78	3.900	12.795	150.180	150.195	1.603	2.340	1.067	19.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	131.080	131.082	1.439	0.300	1.098	19.700
118	80	4.000	13.123	57.890	57.887	1.181	-0.500	2.040	20.300
119	81	4.050	13.287	98.450	98.409	1.164	-6.600	1.183	17.400
120	82	4.100	13.451	85.640	85.642	0.733	0.390	0.856	14.100
121	83	4.150	13.615	121.400	121.398	1.381	-0.260	1.138	21.700
122	84	4.200	13.779	129.580	129.621	1.283	6.530	0.990	16.400
123	85	4.250	13.943	84.190	84.240	1.274	8.030	1.512	18.200
124	86	4.300	14.107	68.530	68.630	1.382	15.940	2.014	17.100
125	87	4.350	14.271	101.270	101.241	1.390	-4.670	1.373	20.000
126	88	4.400	14.436	120.900	120.899	1.519	-0.100	1.256	23.000
127	89	4.450	14.600	94.890	95.054	1.501	26.250	1.579	21.900
128	90	4.500	14.764	113.480	113.588	1.261	17.310	1.110	16.800
129	91	4.550	14.928	145.900	145.904	1.738	0.670	1.191	17.900
130	92	4.600	15.092	166.430	166.432	1.376	0.340	0.827	21.700
131	93	4.650	15.256	110.640	110.647	1.199	1.190	1.084	17.800
132	94	4.700	15.420	115.160	115.224	1.209	10.240	1.049	19.200
133	95	4.750	15.584	76.140	76.169	1.188	4.630	1.560	21.800
134	96	4.800	15.748	50.010	50.000	1.038	-1.660	2.076	18.800
135	97	4.850	15.912	85.890	85.898	1.205	1.360	1.403	22.600
136	98	4.900	16.076	95.060	95.070	0.829	1.550	0.872	21.600
137	99	4.950	16.240	36.400	36.402	0.806	0.280	2.214	24.100
138	100	5.000	16.404	42.080	42.088	0.501	1.260	1.190	28.900
139	101	5.050	16.568	26.150	26.147	0.560	-0.450	2.142	31.400
140	102	5.100	16.732	31.740	31.742	0.757	0.400	2.385	30.800
141	103	5.150	16.896	53.190	53.197	0.714	1.140	1.342	25.700
142	104	5.200	17.060	48.070	48.089	0.376	3.040	0.782	27.500
143	105	5.250	17.224	23.780	23.782	0.418	0.390	1.758	47.400
144	106	5.300	17.388	28.630	28.626	0.480	-0.650	1.677	46.700
145	107	5.350	17.552	29.010	29.012	0.629	0.320	2.168	67.600
146	108	5.400	17.716	27.040	27.075	0.592	5.580	2.187	73.800
147	109	5.450	17.880	26.120	26.201	0.698	12.950	2.664	72.300
148	110	5.500	18.044	27.790	27.873	0.675	13.310	2.422	80.700
149	111	5.550	18.208	26.270	26.245	0.548	-3.940	2.088	69.700
150	112	5.600	18.372	19.910	19.901	0.448	-1.430	2.251	57.400
151	113	5.650	18.537	18.620	18.620	0.548	-0.050	2.943	51.600
152	114	5.700	18.701	31.410	31.425	0.848	2.450	2.698	42.400
153	115	5.750	18.865	53.230	53.265	1.034	5.670	1.941	35.000
154	116	5.800	19.029	70.060	70.042	1.445	-2.870	2.063	28.200
155	117	5.850	19.193	77.790	77.952	1.306	25.880	1.675	19.700
156	118	5.900	19.357	61.690	61.807	1.096	18.820	1.773	15.600
157	119	5.950	19.521	62.280	62.288	0.888	1.270	1.426	17.100
158	120	6.000	19.685	80.130	80.141	0.969	1.800	1.209	11.300
159	121	6.050	19.849	77.480	77.511	1.466	4.910	1.891	16.100
160	122	6.100	20.013	77.290	77.360	1.344	11.260	1.737	11.200
161	123	6.150	20.177	159.500	159.623	0.899	19.680	0.563	9.800
162	124	6.200	20.341	142.050	142.053	0.970	0.510	0.683	17.300
163	125	6.250	20.505	93.280	93.298	1.589	2.960	1.703	20.100
164	126	6.300	20.669	100.430	100.467	1.350	5.990	1.344	22.400
165	127	6.350	20.833	82.560	82.556	1.403	-0.620	1.699	20.900
166	128	6.400	20.997	130.110	130.179	1.744	10.980	1.340	18.500
167	129	6.450	21.161	90.730	90.751	2.683	3.290	2.956	24.800
168	130	6.500	21.325	156.200	156.316	1.496	18.550	0.957	26.200
169	131	6.550	21.489	149.750	150.066	2.382	50.610	1.587	23.200
170	132	6.600	21.653	100.310	100.366	2.891	9.010	2.880	17.200
171	133	6.650	21.817	63.870	63.921	1.887	8.110	2.952	14.100
172	134	6.700	21.981	95.180	95.217	1.391	5.930	1.461	18.500
173	135	6.750	22.145	86.180	86.255	0.889	12.020	1.031	17.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	115.060	115.091	1.042	4.980	0.905	12.200
175	137	6.850	22.473	126.570	126.585	1.646	2.480	1.300	15.000
176	138	6.900	22.638	138.600	138.632	1.781	5.080	1.285	19.000
177	139	6.950	22.802	77.810	77.816	1.547	0.940	1.988	15.300
178	140	7.000	22.966	64.300	64.326	1.352	4.240	2.102	17.500
179	141	7.050	23.130	42.540	42.555	0.987	2.460	2.319	14.700
180	142	7.100	23.294	40.810	40.832	0.574	3.560	1.406	15.600
181	143	7.150	23.458	24.220	24.250	1.017	4.790	4.194	17.100
182	144	7.200	23.622	29.240	29.265	1.121	4.070	3.830	21.400
183	145	7.250	23.786	103.660	103.671	1.521	1.720	1.467	26.300
184	146	7.300	23.950	92.170	92.572	2.147	64.330	2.319	27.000
185	147	7.350	24.114	83.780	84.044	2.037	42.240	2.424	22.600
186	148	7.400	24.278	115.170	115.390	1.861	35.200	1.613	31.000
187	149	7.450	24.442	122.910	123.051	1.804	22.630	1.466	32.900
188	150	7.500	24.606	104.610	106.070	1.799	233.890	1.696	35.100
189	151	7.550	24.770	99.010	99.193	2.004	29.350	2.020	46.800
190	152	7.600	24.934	78.490	78.717	1.829	36.290	2.324	50.600
191	153	7.650	25.098	82.070	82.479	1.815	65.460	2.201	70.100
192	154	7.700	25.262	66.710	66.935	1.726	36.080	2.579	66.600
193	155	7.750	25.426	74.850	75.000	1.799	23.990	2.399	63.200
194	156	7.800	25.590	83.900	84.197	1.727	47.650	2.051	67.200
195	157	7.850	25.754	56.900	56.978	1.856	12.510	3.257	64.900
196	158	7.900	25.918	66.840	66.945	1.829	16.860	2.732	59.700
197	159	7.950	26.082	62.680	62.766	1.847	13.770	2.943	69.400
198	160	8.000	26.246	63.950	64.020	1.563	11.220	2.441	61.700
199	161	8.050	26.410	65.510	65.567	1.732	9.160	2.642	54.900
200	162	8.100	26.574	74.110	74.302	1.511	30.690	2.034	39.600
201	163	8.150	26.739	78.010	78.081	1.176	11.390	1.506	28.600
202	164	8.200	26.903	29.960	29.948	0.602	-2.000	2.010	26.700
203	165	8.250	27.067	30.010	30.005	0.271	-0.830	0.903	30.300
204	166	8.300	27.231	37.230	37.253	0.674	3.670	1.809	22.700
205	167	8.350	27.395	43.140	43.181	0.451	6.640	1.044	21.200
206	168	8.400	27.559	52.270	52.315	0.416	7.210	0.795	23.100
207	169	8.450	27.723	137.850	137.868	1.275	2.940	0.925	17.900
208	170	8.500	27.887	159.890	159.939	1.659	7.860	1.037	17.600
209	171	8.550	28.051	59.810	59.906	1.513	15.350	2.526	16.500
210	172	8.600	28.215	64.230	64.316	0.999	13.840	1.553	21.000
211	173	8.650	28.379	61.040	61.047	0.838	1.160	1.373	27.500
212	174	8.700	28.543	51.450	51.478	0.465	4.470	0.903	25.000
213	175	8.750	28.707	109.630	109.638	0.540	1.240	0.493	22.900
214	176	8.800	28.871	105.530	105.523	1.537	-1.110	1.457	19.000
215	177	8.850	29.035	92.440	92.448	1.557	1.340	1.684	23.000
216	178	8.900	29.199	55.250	55.368	1.350	18.920	2.438	19.900
217	179	8.950	29.363	66.230	66.272	1.154	6.670	1.741	17.900
218	180	9.000	29.527	67.700	67.695	0.908	-0.810	1.341	23.800
219	181	9.050	29.691	73.030	73.062	1.288	5.130	1.763	30.200
220	182	9.100	29.855	91.350	91.392	1.273	6.720	1.393	24.800
221	183	9.150	30.019	130.610	130.671	1.707	9.850	1.306	30.400
222	184	9.200	30.183	130.760	130.764	2.429	0.670	1.858	28.500
223	185	9.250	30.347	118.910	118.925	2.424	2.420	2.038	29.800
224	186	9.300	30.511	127.990	128.100	2.020	17.560	1.577	30.200
225	187	9.350	30.675	118.450	118.467	1.460	2.660	1.232	36.200
226	188	9.400	30.840	123.710	123.742	1.684	5.120	1.361	39.600
227	189	9.450	31.004	94.800	94.788	1.868	-1.870	1.971	39.500
228	190	9.500	31.168	129.990	129.973	1.061	-2.710	0.816	51.000
229	191	9.550	31.332	52.390	52.383	1.506	-1.190	2.875	47.900
230	192	9.600	31.496	96.420	96.433	1.208	2.040	1.253	47.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	100.570	100.561	2.090	-1.380	2.078	53.100
232	194	9.700	31.824	134.950	134.947	2.825	-0.430	2.093	66.700
233	195	9.750	31.988	136.320	136.328	2.333	1.330	1.711	64.300
234	196	9.800	32.152	111.490	111.483	1.734	-1.160	1.555	64.400
235	197	9.850	32.316	121.180	121.178	1.288	-0.250	1.063	69.600
236	198	9.900	32.480	109.480	109.481	1.043	0.100	0.953	78.700
237	199	9.950	32.644	118.710	118.716	1.111	1.040	0.936	68.500
238	200	10.000	32.808	108.410	108.437	1.546	4.310	1.426	73.900
239	201	10.050	32.972	79.840	79.857	1.665	2.780	2.085	74.700
240	202	10.100	33.136	66.250	66.306	1.672	8.940	2.522	79.800
241	203	10.150	33.300	85.110	85.174	1.756	10.290	2.062	81.500
242	204	10.200	33.464	89.630	89.700	2.395	11.140	2.670	74.200
243	205	10.250	33.628	100.450	100.491	3.470	6.620	3.453	78.500
244	206	10.300	33.792	80.680	80.715	1.654	5.570	2.049	73.700
245	207	10.350	33.956	219.330	219.412	2.850	13.130	1.299	71.400
246	208	10.400	34.120	277.650	277.654	6.001	0.620	2.161	71.800
247	209	10.450	34.284	185.620	185.606	8.455	-2.200	4.555	71.900
248	210	10.500	34.448	121.220	121.215	7.834	-0.740	6.463	63.400
249	211	10.550	34.612	71.080	71.124	3.898	7.090	5.481	67.000
250	212	10.600	34.776	71.910	71.958	3.654	7.610	5.078	64.100
251	213	10.650	34.941	92.010	92.046	2.885	5.780	3.134	46.000
252	214	10.700	35.105	98.120	98.248	2.560	20.560	2.606	42.400
253	215	10.750	35.269	60.780	60.871	2.969	14.620	4.878	43.500
254	216	10.800	35.433	94.010	94.041	3.106	4.900	3.303	34.100
255	217	10.850	35.597	123.970	124.043	3.120	11.690	2.515	32.800
256	218	10.900	35.761	75.900	76.170	3.037	43.330	3.987	30.700
257	219	10.950	35.925	72.350	73.200	2.296	136.100	3.137	29.500
258	220	11.000	36.089	72.630	73.000	2.126	59.280	2.912	28.600
259	221	11.050	36.253	96.010	96.295	2.230	45.710	2.316	30.400
260	222	11.100	36.417	91.150	91.359	3.095	33.480	3.388	19.700
261	223	11.150	36.581	72.600	72.696	3.095	15.370	4.257	17.800
262	224	11.200	36.745	74.930	74.907	2.636	-3.670	3.519	15.500
263	225	11.250	36.909	114.360	114.645	3.148	45.590	2.746	20.000
264	226	11.300	37.073	131.020	131.329	2.927	49.540	2.229	18.900
265	227	11.350	37.237	139.330	139.409	2.580	12.620	1.851	14.000
266	228	11.400	37.401	102.490	102.562	2.318	11.570	2.260	18.800
267	229	11.450	37.565	83.790	83.889	1.897	15.920	2.261	18.200
268	230	11.500	37.729	77.970	78.067	2.028	15.530	2.598	18.300
269	231	11.550	37.893	67.840	67.886	1.725	7.330	2.541	21.400
270	232	11.600	38.057	55.250	55.314	1.881	10.300	3.401	21.300
271	233	11.650	38.221	91.710	91.830	2.344	19.190	2.553	26.200
272	234	11.700	38.385	91.230	91.323	2.649	14.850	2.901	27.900
273	235	11.750	38.549	103.240	103.295	2.795	8.750	2.706	36.500
274	236	11.800	38.713	68.870	68.878	2.354	1.300	3.418	44.800
275	237	11.850	38.877	72.290	72.339	2.369	7.830	3.275	41.800
276	238	11.900	39.042	79.890	79.933	2.188	6.840	2.737	34.700
277	239	11.950	39.206	50.500	50.479	1.481	-3.320	2.934	30.600
278	240	12.000	39.370	63.960	64.114	1.127	24.680	1.758	30.100
279	241	12.050	39.534	74.670	74.707	0.851	5.990	1.139	18.000
280	242	12.100	39.698	77.820	77.841	0.832	3.340	1.069	22.700
281	243	12.150	39.862	57.430	57.466	1.151	5.750	2.003	23.200
282	244	12.200	40.026	64.960	64.993	1.485	5.280	2.285	20.200
283	245	12.250	40.190	76.480	76.495	1.548	2.450	2.024	18.000
284	246	12.300	40.354	77.930	77.929	1.649	-0.140	2.116	19.700
285	247	12.350	40.518	67.840	67.866	1.391	4.150	2.050	17.400
286	248	12.400	40.682	77.050	77.070	1.535	3.150	1.992	16.800
287	249	12.450	40.846	66.610	66.633	1.170	3.700	1.756	13.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	51.360	51.351	1.144	-1.420	2.228	15.900
289	251	12.550	41.174	59.410	59.424	0.634	2.230	1.067	17.900
290	252	12.600	41.338	101.080	101.096	0.709	2.510	0.701	15.100
291	253	12.650	41.502	80.850	80.857	0.772	1.050	0.955	13.200
292	254	12.700	41.666	66.260	66.271	1.005	1.720	1.517	15.600
293	255	12.750	41.830	56.240	56.247	0.841	1.090	1.495	15.300
294	256	12.800	41.994	61.970	61.979	1.229	1.400	1.983	12.100
295	257	12.850	42.158	57.650	57.667	1.049	2.790	1.819	10.800
296	258	12.900	42.322	68.690	68.701	0.908	1.760	1.322	13.400
297	259	12.950	42.486	68.130	68.133	0.494	0.450	0.725	7.200
298	260	13.000	42.650	71.480	71.463	0.991	-2.770	1.387	11.100
299	261	13.050	42.814	60.260	60.239	1.444	-3.310	2.397	9.200
300	262	13.100	42.978	61.020	61.005	1.257	-2.330	2.060	9.600
301	263	13.150	43.143	77.220	77.206	1.493	-2.260	1.934	8.700
302	264	13.200	43.307	152.980	152.976	0.752	-0.640	0.492	11.500
303	265	13.250	43.471	199.480	199.476	1.314	-0.630	0.659	11.100
304	266	13.300	43.635	106.240	106.222	2.008	-2.930	1.890	13.400
305	267	13.350	43.799	63.180	63.165	1.816	-2.330	2.875	11.700
306	268	13.400	43.963	156.800	156.839	1.902	6.200	1.213	14.900
307	269	13.450	44.127	146.190	146.176	2.357	-2.260	1.612	12.500
308	270	13.500	44.291	89.920	89.934	2.468	2.220	2.744	11.600
309	271	13.550	44.455	81.000	81.008	2.564	1.350	3.165	13.700
310	272	13.600	44.619	114.000	114.012	1.743	1.900	1.529	14.900
311	273	13.650	44.783	68.360	68.338	1.645	-3.580	2.407	11.200
312	274	13.700	44.947	56.830	56.855	1.347	4.060	2.369	9.700
313	275	13.750	45.111	58.020	58.007	0.899	-2.140	1.550	18.800
314	276	13.800	45.275	48.840	48.824	0.745	-2.600	1.526	16.000
315	277	13.850	45.439	54.970	55.089	0.871	19.110	1.581	15.300
316	278	13.900	45.603	55.890	55.919	1.001	4.610	1.790	11.500
317	279	13.950	45.767	68.500	68.497	1.128	-0.540	1.647	19.500
318	280	14.000	45.931	40.970	40.937	1.054	-5.270	2.575	17.100
319	281	14.050	46.095	36.800	36.784	0.841	-2.510	2.286	12.700
320	282	14.100	46.259	25.550	25.553	0.865	0.470	3.385	17.400
321	283	14.150	46.423	31.300	31.294	0.913	-0.920	2.917	17.300
322	284	14.200	46.587	32.160	32.170	0.683	1.540	2.123	22.800
323	285	14.250	46.751	33.160	33.158	0.928	-0.310	2.799	15.400
324	286	14.300	46.915	29.170	29.184	1.121	2.260	3.841	18.900
325	287	14.350	47.079	51.560	51.677	1.484	18.680	2.872	23.200
326	288	14.400	47.244	56.690	56.775	1.645	13.560	2.897	22.900
327	289	14.450	47.408	58.380	58.393	1.820	2.110	3.117	33.900
328	290	14.500	47.572	59.050	59.087	1.815	5.980	3.072	34.200
329	291	14.550	47.736	45.000	45.024	1.326	3.850	2.945	29.400
330	292	14.600	47.900	42.970	42.984	1.496	2.220	3.480	39.300
331	293	14.650	48.064	55.220	55.229	1.415	1.460	2.562	44.000
332	294	14.700	48.228	28.170	28.163	1.656	-1.190	5.880	60.200
333	295	14.750	48.392	82.660	82.705	1.769	7.200	2.139	72.800
334	296	14.800	48.556	188.040	188.104	2.394	10.220	1.273	68.700
335	297	14.850	48.720	217.370	217.422	3.368	8.400	1.549	80.400
336	298	14.900	48.884	208.460	208.505	3.888	7.260	1.865	82.800
337	299	14.950	49.048	175.050	175.074	3.929	3.890	2.244	75.300
338	300	15.000	49.212	145.230	145.244	3.235	2.170	2.227	83.400
339	301	15.050	49.376	107.410	107.412	2.989	0.390	2.783	76.400
340	302	15.100	49.540	90.540	90.541	3.072	0.180	3.393	59.400
341	303	15.150	49.704	88.350	88.371	3.049	3.330	3.450	56.500
342	304	15.200	49.868	58.280	58.282	3.697	0.350	6.343	46.800
343	305	15.250	50.032	31.800	31.814	4.191	2.310	13.173	43.200
344	306	15.300	50.196	181.070	181.099	3.322	4.580	1.834	44.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	98.240	98.234	4.311	-1.000	4.389	45.400
346	308	15.400	50.524	133.560	133.581	2.749	3.330	2.058	40.200
347	309	15.450	50.688	76.160	76.400	3.424	38.500	4.482	34.800
348	310	15.500	50.852	92.980	93.042	2.572	9.900	2.764	34.900
349	311	15.550	51.016	60.550	60.574	1.701	3.820	2.808	39.500
350	312	15.600	51.180	70.650	70.679	1.467	4.630	2.076	41.600
351	313	15.650	51.345	75.010	75.051	0.802	6.560	1.069	47.400
352	314	15.700	51.509	73.210	73.296	0.811	13.730	1.106	58.400
353	315	15.750	51.673	106.320	106.438	0.646	18.920	0.607	58.900
354	316	15.800	51.837	105.480	105.591	0.514	17.770	0.487	82.100
355	317	15.850	52.001	105.630	105.724	0.500	15.010	0.473	76.900
356	318	15.900	52.165	94.110	94.175	0.536	10.440	0.569	74.100
357	319	15.950	52.329	82.500	82.542	0.593	6.770	0.718	75.000
358	320	16.000	52.493	66.310	66.333	0.939	3.740	1.416	69.600
359	321	16.050	52.657	73.870	73.904	0.481	5.490	0.651	67.300
360	322	16.100	52.821	77.510	77.545	0.778	5.670	1.003	59.400
361	323	16.150	52.985	58.980	58.998	0.298	2.920	0.505	48.300
362	324	16.200	53.149	67.970	67.992	0.102	3.540	0.150	44.900
363	325	16.250	53.313	49.120	49.124	0.402	0.720	0.818	44.100
364	326	16.300	53.477	57.370	57.377	0.542	1.090	0.945	41.000
365	327	16.350	53.641	59.530	59.534	0.292	0.690	0.490	35.900
366	328	16.400	53.805	68.640	68.715	0.625	12.000	0.910	32.400
367	329	16.450	53.969	78.170	78.233	0.511	10.130	0.653	29.000
368	330	16.500	54.133	91.230	91.288	0.998	9.260	1.093	31.300
369	331	16.550	54.297	91.050	91.118	0.845	10.820	0.927	35.100
370	332	16.600	54.461	81.440	81.479	0.881	6.180	1.081	44.400
371	333	16.650	54.625	53.070	53.074	0.552	0.700	1.040	50.000
372	334	16.700	54.789	40.820	40.812	0.325	-1.240	0.796	59.700
373	335	16.750	54.953	36.450	36.435	0.923	-2.330	2.533	57.400
374	336	16.800	55.117	48.600	48.596	1.930	-0.620	3.972	63.200
375	337	16.850	55.281	204.620	204.707	2.777	13.980	1.357	72.000
376	338	16.900	55.446	256.870	256.989	1.955	19.100	0.761	75.300
377	339	16.950	55.610	373.600	373.710	2.524	17.550	0.675	62.500
378	340	17.000	55.774	348.020	348.048	3.538	4.490	1.017	73.600
379	341	17.050	55.938	282.270	282.261	4.687	-1.480	1.661	78.500
380	342	17.100	56.102	230.950	230.928	4.761	-3.480	2.062	74.200
381	343	17.150	56.266	155.010	154.985	4.041	-4.010	2.607	75.200
382	344	17.200	56.430	100.030	99.994	3.147	-5.760	3.147	66.900
383	345	17.250	56.594	61.910	61.874	2.018	-5.710	3.261	59.700
384	346	17.300	56.758	46.620	46.588	1.635	-5.130	3.509	45.000
385	347	17.350	56.922	44.950	44.939	1.567	-1.780	3.487	53.500
386	348	17.400	57.086	44.570	44.566	1.451	-0.620	3.256	35.900
387	349	17.450	57.250	32.860	32.844	1.593	-2.500	4.850	38.000
388	350	17.500	57.414	38.030	38.018	1.329	-1.900	3.496	40.900
389	351	17.550	57.578	31.080	31.064	1.308	-2.560	4.211	25.600
390	352	17.600	57.742	38.920	38.925	1.166	0.790	2.996	31.700
391	353	17.650	57.906	25.480	25.478	1.012	-0.320	3.972	17.200
392	354	17.700	58.070	25.240	25.227	0.797	-2.050	3.159	23.600
393	355	17.750	58.234	43.580	43.571	1.249	-1.480	2.867	25.000
394	356	17.800	58.398	54.370	54.368	1.303	-0.260	2.397	20.700
395	357	17.850	58.562	16.250	16.224	1.374	-4.170	8.469	25.300
396	358	17.900	58.726	37.990	37.975	1.200	-2.450	3.160	26.500
397	359	17.950	58.890	45.340	45.329	1.424	-1.820	3.142	32.800
398	360	18.000	59.054	40.220	40.221	1.339	0.090	3.329	30.400
399	361	18.050	59.218	42.210	42.208	1.450	-0.260	3.435	40.700
400	362	18.100	59.382	45.700	45.699	1.635	-0.210	3.578	49.300
401	363	18.150	59.547	42.110	42.108	1.584	-0.360	3.762	48.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
402	364	18.200	59.711	42.880	42.871	1.393	-1.480	3.249	55.600
403	365	18.250	59.875	63.020	63.016	1.269	-0.640	2.014	65.200
404	366	18.300	60.039	48.440	48.460	1.230	3.220	2.538	56.700
405	367	18.350	60.203	93.710	93.738	1.820	4.530	1.942	62.000
406	368	18.400	60.367	183.240	183.252	2.340	1.920	1.277	78.200
407	369	18.450	60.531	209.340	209.363	3.064	3.730	1.463	75.700
408	370	18.500	60.695	206.890	206.906	3.894	2.580	1.882	79.800
409	371	18.550	60.859	190.600	190.620	3.791	3.180	1.989	91.500
410	372	18.600	61.023	173.740	173.775	3.686	5.580	2.121	79.900
411	373	18.650	61.187	140.850	140.857	3.050	1.120	2.165	82.400
412	374	18.700	61.351	95.230	95.220	2.367	-1.550	2.486	79.400
413	375	18.750	61.515	69.970	69.946	1.987	-3.810	2.841	70.800
414	376	18.800	61.679	44.940	44.910	1.360	-4.760	3.028	58.500
415	377	18.850	61.843	39.010	38.988	1.065	-3.480	2.732	46.300
416	378	18.900	62.007	27.750	27.743	1.383	-1.100	4.985	26.900
417	379	18.950	62.171	47.850	47.861	1.282	1.700	2.679	27.800
418	380	19.000	62.335	35.210	35.245	1.511	5.530	4.287	23.300
419	381	19.050	62.499	39.730	39.772	1.272	6.660	3.198	26.300
420	382	19.100	62.663	40.940	40.967	1.231	4.300	3.005	27.200
421	383	19.150	62.827	30.370	30.373	1.248	0.430	4.109	27.200
422	384	19.200	62.991	30.020	30.021	1.132	0.240	3.771	27.300
423	385	19.250	63.155	21.400	21.396	0.908	-0.690	4.244	27.200
424	386	19.300	63.319	26.200	26.197	0.734	-0.490	2.802	35.500
425	387	19.350	63.483	25.750	25.708	0.893	-6.740	3.474	33.900
426	388	19.400	63.648	23.110	23.110	0.984	0.030	4.258	39.600
427	389	19.450	63.812	65.810	65.820	1.406	1.620	2.136	35.000
428	390	19.500	63.976	47.490	47.472	1.387	-2.930	2.922	40.200
429	391	19.550	64.140	52.370	52.368	1.586	-0.340	3.029	64.700
430	392	19.600	64.304	36.870	36.876	1.448	1.010	3.927	71.600
431	393	19.650	64.468	37.600	37.620	1.031	3.250	2.741	65.800
432	394	19.700	64.632	29.230	29.247	0.949	2.750	3.245	68.700
433	395	19.750	64.796	37.020	37.045	1.140	3.930	3.077	71.900
434	396	19.800	64.960	46.120	46.151	1.462	4.970	3.168	75.200
435	397	19.850	65.124	40.960	40.983	1.682	3.680	4.104	65.400
436	398	19.900	65.288	61.320	61.374	2.442	8.600	3.979	59.400
437	399	19.950	65.452	85.390	85.450	3.113	9.690	3.643	49.100
438	400	20.000	65.616	112.140	112.205	3.922	10.340	3.495	34.300
439	401	20.050	65.780	195.610	195.680	5.019	11.250	2.565	23.400
440	402	20.100	65.944	132.840	132.884	4.926	6.980	3.707	18.500
441	403	20.150	66.108	81.500	81.530	4.406	4.840	5.404	20.800
442	404	20.200	66.272	66.200	66.234	3.140	5.430	4.741	22.800
443	405	20.250	66.436	72.000	72.033	2.659	5.360	3.691	17.700
444	406	20.300	66.600	60.210	60.337	3.822	20.290	6.334	16.500
445	407	20.350	66.764	75.410	75.468	4.573	9.290	6.060	17.100
446	408	20.400	66.928	0.310	0.365	3.015	8.790	826.314	13.600
447	409	20.450	67.092	30.570	30.601	2.770	4.910	9.052	16.300
448	410	20.500	67.256	12.730	12.728	1.659	-0.400	13.035	14.900
449	411	20.550	67.420	26.750	26.777	1.271	4.320	4.747	15.200
450	412	20.600	67.584	14.180	14.212	0.830	5.170	5.840	20.700
451	413	20.650	67.749	12.840	12.894	0.694	8.710	5.382	26.300
452	414	20.700	67.913	26.120	26.178	0.634	9.300	2.422	29.900
453	415	20.750	68.077	38.850	38.878	0.697	4.560	1.793	35.400
454	416	20.800	68.241	38.040	38.072	0.747	5.200	1.962	43.700
455	417	20.850	68.405	35.180	35.259	0.860	12.730	2.439	49.200
456	418	20.900	68.569	45.520	45.650	1.647	20.860	3.608	50.500
457	419	20.950	68.733	84.970	85.065	1.454	15.230	1.709	44.500
458	420	21.000	68.897	97.940	98.060	2.620	19.300	2.672	48.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
459	421	21.050	69.061	94.970	95.033	2.671	10.080	2.811	50.000
460	422	21.100	69.225	35.050	35.120	2.796	11.150	7.961	49.600
461	423	21.150	69.389	42.860	42.934	2.279	11.790	5.308	47.100
462	424	21.200	69.553	62.450	62.673	2.205	35.780	3.518	40.000
463	425	21.250	69.717	66.240	66.426	2.468	29.730	3.715	52.800
464	426	21.300	69.881	49.440	49.573	2.213	21.370	4.464	42.300
465	427	21.350	70.045	66.520	66.615	2.571	15.290	3.859	48.400
466	428	21.400	70.209	81.110	81.197	2.772	13.950	3.414	43.800
467	429	21.450	70.373	79.760	79.743	2.304	-2.680	2.889	46.700
468	430	21.500	70.537	41.590	41.574	2.485	-2.550	5.977	57.600
469	431	21.550	70.701	29.210	29.223	2.109	2.020	7.217	39.300
470	432	21.600	70.865	29.880	29.920	1.668	6.420	5.575	32.000
471	433	21.650	71.029	41.430	41.480	2.457	8.070	5.923	26.300
472	434	21.700	71.193	92.410	92.465	3.671	8.850	3.970	24.400
473	435	21.750	71.357	118.330	118.343	2.750	2.120	2.324	25.400
474	436	21.800	71.521	120.250	120.307	2.599	9.090	2.160	25.800
475	437	21.850	71.685	193.100	193.132	2.704	5.160	1.400	20.000
476	438	21.900	71.850	182.060	182.092	3.183	5.170	1.748	25.400
477	439	21.950	72.014	86.150	86.180	2.901	4.850	3.366	28.700
478	440	22.000	72.178	45.720	45.757	2.420	5.960	5.289	34.100
479	441	22.050	72.342	24.790	25.262	2.358	75.580	9.334	40.800
480	442	22.100	72.506	60.040	60.416	1.989	60.230	3.292	42.400
481	443	22.150	72.670	60.370	62.028	2.349	265.560	3.787	38.100
482	444	22.200	72.834	50.880	50.952	2.604	11.540	5.111	31.600
483	445	22.250	72.998	64.930	65.001	2.360	11.370	3.631	26.800
484	446	22.300	73.162	69.820	69.918	2.686	15.710	3.842	22.600
485	447	22.350	73.326	84.690	84.769	3.311	12.720	3.906	24.500
486	448	22.400	73.490	66.970	68.072	3.451	176.520	5.070	21.100
487	449	22.450	73.654	76.240	77.338	3.511	175.940	4.540	17.800
488	450	22.500	73.818	75.630	75.884	3.130	40.760	4.125	20.300
489	451	22.550	73.982	67.650	67.763	3.086	18.170	4.554	20.600
490	452	22.600	74.146	48.240	48.354	2.289	18.310	4.734	22.600
491	453	22.650	74.310	41.500	41.769	2.021	43.080	4.839	18.400
492	454	22.700	74.474	29.780	30.329	1.666	87.980	5.493	20.400
493	455	22.750	74.638	41.890	42.459	2.074	91.200	4.885	21.200
494	456	22.800	74.802	79.470	80.372	2.546	144.460	3.168	19.400
495	457	22.850	74.966	71.720	72.155	2.822	69.750	3.911	23.400
496	458	22.900	75.130	60.910	61.050	2.564	22.470	4.200	25.000
497	459	22.950	75.294	46.540	46.694	1.764	24.680	3.778	31.100
498	460	23.000	75.458	23.060	23.142	1.194	13.120	5.159	38.600
499	461	23.050	75.622	33.450	33.485	1.399	5.580	4.178	49.600
500	462	23.100	75.786	56.050	56.145	1.651	15.160	2.941	48.400
501	463	23.150	75.951	69.930	70.033	2.147	16.440	3.066	66.400
502	464	23.200	76.115	91.020	91.098	2.356	12.430	2.586	67.300
503	465	23.250	76.279	93.530	93.608	2.075	12.570	2.217	66.800
504	466	23.300	76.443	108.090	108.172	2.749	13.150	2.541	53.300
505	467	23.350	76.607	140.540	140.628	3.349	14.170	2.381	64.100
506	468	23.400	76.771	139.090	139.231	4.563	22.520	3.277	54.200
507	469	23.450	76.935	80.420	80.504	4.398	13.390	5.463	50.000
508	470	23.500	77.099	32.530	32.657	2.890	20.310	8.850	68.600
509	471	23.550	77.263	25.950	26.040	1.207	14.380	4.635	67.900
510	472	23.600	77.427	19.640	19.823	0.929	29.320	4.686	77.200
511	473	23.650	77.591	22.770	22.945	0.929	28.100	4.049	80.000
512	474	23.700	77.755	27.380	27.629	0.949	39.880	3.435	82.300
513	475	23.750	77.919	32.620	32.944	1.178	51.900	3.576	96.900
514	476	23.800	78.083	51.490	51.992	1.456	80.360	2.800	94.000
515	477	23.850	78.247	39.480	39.685	1.431	32.830	3.606	100.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
516	478	23.900	78.411	29.210	29.579	1.317	59.130	4.452	86.400
517	479	23.950	78.575	32.240	32.595	0.990	56.890	3.037	88.500
518	480	24.000	78.739	50.730	51.035	1.034	48.910	2.026	76.600
519	481	24.050	78.903	54.560	54.576	1.149	2.500	2.105	63.800
520	482	24.100	79.067	25.380	25.406	1.371	4.220	5.396	50.000
521	483	24.150	79.231	15.370	15.404	1.645	5.480	10.679	38.900
522	484	24.200	79.395	35.440	35.550	1.984	17.610	5.581	28.600
523	485	24.250	79.559	59.080	59.199	2.863	19.100	4.836	25.300
524	486	24.300	79.723	96.780	96.954	3.312	27.870	3.416	26.500
525	487	24.350	79.887	45.800	45.883	3.334	13.340	7.266	21.500
526	488	24.400	80.052	58.380	58.503	3.014	19.780	5.152	22.000
527	489	24.450	80.216	31.690	31.781	2.176	14.600	6.847	20.300
528	490	24.500	80.380	24.830	24.898	1.515	10.870	6.085	18.500
529	491	24.550	80.544	37.270	37.319	1.778	7.860	4.764	19.100
530	492	24.600	80.708	54.540	54.609	2.183	11.000	3.998	18.000
531	493	24.650	80.872	96.150	96.285	3.302	21.660	3.429	18.400
532	494	24.700	81.036	83.760	83.961	3.108	32.200	3.702	17.000
533	495	24.750	81.200	70.250	71.676	3.036	228.420	4.236	18.400
534	496	24.800	81.364	186.510	186.616	3.727	17.010	1.997	24.700
535	497	24.850	81.528	175.230	175.326	5.248	15.340	2.993	18.900
536	498	24.900	81.692	123.550	123.633	4.987	13.370	4.034	18.000
537	499	24.950	81.856	78.210	78.281	4.406	11.420	5.628	20.700
538	500	25.000	82.020	66.700	66.877	2.945	28.280	4.404	20.500
539	501	25.050	82.184	51.790	51.935	1.909	23.190	3.676	21.900
540	502	25.100	82.348	55.360	55.460	1.220	15.970	2.200	22.500
541	503	25.150	82.512	39.090	39.165	1.107	11.990	2.827	28.000
542	504	25.200	82.676	27.730	27.785	1.769	8.740	6.367	31.500
543	505	25.250	82.840	153.990	154.027	2.421	5.880	1.572	38.100
544	506	25.300	83.004	69.400	69.439	3.172	6.310	4.568	52.600
545	507	25.350	83.168	70.620	71.088	3.444	74.890	4.845	67.100
546	508	25.400	83.332	58.380	58.893	2.998	82.120	5.091	77.800
547	509	25.450	83.496	51.210	51.486	2.746	44.190	5.334	85.000
548	510	25.500	83.660	44.970	45.326	2.361	57.020	5.209	85.000
549	511	25.550	83.824	40.430	40.832	2.104	64.470	5.153	84.900
550	512	25.600	83.988	34.620	34.871	2.133	40.260	6.117	84.700
551	513	25.650	84.153	34.140	34.366	2.118	36.210	6.163	62.600
552	514	25.700	84.317	62.020	62.149	2.291	20.660	3.686	48.000
553	515	25.750	84.481	70.030	70.173	2.277	22.880	3.245	43.600
554	516	25.800	84.645	113.940	114.036	2.022	15.400	1.773	31.500
555	517	25.850	84.809	47.240	47.257	1.443	2.670	3.054	33.700
556	518	25.900	84.973	40.200	40.233	1.878	5.260	4.668	31.800
557	519	25.950	85.137	67.530	67.629	2.005	15.910	2.965	32.000
558	520	26.000	85.301	47.540	47.615	2.265	12.010	4.757	27.200
559	521	26.050	85.465	82.220	82.457	2.756	38.040	3.342	30.400
560	522	26.100	85.629	128.350	128.454	3.284	16.720	2.557	30.000
561	523	26.150	85.793	148.260	148.354	3.456	15.050	2.330	35.600
562	524	26.200	85.957	124.740	124.792	2.631	8.310	2.108	40.300
563	525	26.250	86.121	136.030	136.054	1.867	3.830	1.372	47.600
564	526	26.300	86.285	189.640	189.658	0.000	2.900	0.000	51.800
565	527	26.350	86.449	195.470	195.503	0.000	5.340	0.000	68.600
566	528	26.400	86.613	3.760	3.894	0.105	21.430	2.697	71.800
567	529	26.450	86.777	2.650	2.884	0.075	37.440	2.601	74.700
568	530	26.500	86.941	2.450	2.751	0.055	48.150	2.000	82.700
569	531	26.550	87.105	3.210	3.620	0.054	65.640	1.492	104.400
570	532	26.600	87.269	3.790	4.387	0.088	95.560	2.006	103.200
571	533	26.650	87.433	5.440	6.138	0.122	111.840	1.988	134.500
572	534	26.700	87.597	4.780	5.756	0.099	156.410	1.720	139.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
573	535	26.750	87.761	6.010	7.237	0.250	196.490	3.455	152.600
574	536	26.800	87.925	5.750	6.657	0.389	145.260	5.844	171.200
575	537	26.850	88.089	12.340	13.666	0.545	212.430	3.988	188.500
576	538	26.900	88.254	10.050	11.596	1.356	247.570	11.694	177.300
577	539	26.950	88.418	95.910	96.782	0.610	139.710	0.630	177.500
578	540	27.000	88.582	63.760	63.839	1.253	12.730	1.963	159.500
579	541	27.050	88.746	87.980	88.226	1.795	39.460	2.035	173.200
580	542	27.100	88.910	52.940	53.286	1.901	55.500	3.568	209.400
581	543	27.150	89.074	54.950	55.422	1.833	75.620	3.307	243.200
582	544	27.200	89.238	36.730	36.841	1.486	17.770	4.034	241.600
583	545	27.250	89.402	22.970	23.063	1.140	14.820	4.943	252.800
584	546	27.300	89.566	42.820	42.848	1.465	4.480	3.419	269.900
585	547	27.350	89.730	58.410	58.519	1.335	17.440	2.281	237.900
586	548	27.400	89.894	38.060	38.170	1.685	17.670	4.414	242.500
587	549	27.450	90.058	76.810	76.978	2.685	26.980	3.488	218.600
588	550	27.500	90.222	115.110	115.248	4.123	22.120	3.577	194.000
589	551	27.550	90.386	142.840	143.030	4.776	30.460	3.339	157.100
590	552	27.600	90.550	227.350	227.684	5.845	53.530	2.567	133.900
591	553	27.650	90.714	148.780	149.175	5.727	63.310	3.839	124.600
592	554	27.700	90.878	250.190	250.777	5.247	94.080	2.092	104.200
593	555	27.750	91.042	369.420	369.629	3.881	33.470	1.050	93.400
594	556	27.800	91.206	423.450	423.606	3.201	24.930	0.756	77.500
595	557	27.850	91.370	414.340	414.486	2.731	23.340	0.659	0.000
596	558	27.900	91.534	308.140	308.261	4.370	19.380	1.418	0.000
597	559	27.950	91.698	184.770	184.868	4.518	15.700	2.444	0.000
598	560	28.000	91.862	171.640	171.738	4.419	15.730	2.573	0.000
599	561	28.050	92.026	255.040	255.240	5.896	32.060	2.310	0.000
600	562	28.100	92.190	180.790	181.102	5.752	49.980	3.176	0.000
601	563	28.150	92.355	118.300	118.560	5.411	41.590	4.564	0.000
602	564	28.200	92.519	108.540	108.817	3.796	44.380	3.488	0.000
603	565	28.250	92.683	196.140	196.510	4.251	59.320	2.163	0.000
604	566	28.300	92.847	225.630	225.886	5.600	40.960	2.479	0.000
605	567	28.350	93.011	181.250	181.430	4.644	28.800	2.560	0.000
606	568	28.400	93.175	190.150	190.448	5.760	47.790	3.024	0.000
607	569	28.450	93.339	381.860	381.911	8.184	8.140	2.143	0.000
608	570	28.500	93.503	299.700	299.807	9.970	17.220	3.325	0.000
609	571	28.550	93.667	288.160	288.614	0.000	72.670	0.000	0.000
610	572	28.600	93.831	268.550	268.941	0.000	62.700	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272422				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-16A				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-19-2015				
14		CPT Time:			16:52				
15		CPT File:			15-53039_GP1D-16A.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722077.638				
31		Northing / Lat:			4294173.413				
32		Elevation:			147.790				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	9.190	9.192	0.009	0.250	0.098	22.100
40	2	0.100	0.328	35.100	35.103	0.044	0.510	0.125	21.200
41	3	0.150	0.492	54.240	54.262	0.076	3.480	0.140	17.900
42	4	0.200	0.656	56.200	56.268	0.088	10.880	0.156	21.900
43	5	0.250	0.820	57.040	57.145	0.209	16.790	0.366	25.100
44	6	0.300	0.984	45.720	45.819	0.148	15.880	0.323	25.800
45	7	0.350	1.148	44.420	44.417	0.122	-0.540	0.275	39.200
46	8	0.400	1.312	50.190	50.220	0.234	4.880	0.466	48.300
47	9	0.450	1.476	23.380	23.390	0.333	1.620	1.424	54.700
48	10	0.500	1.640	13.830	13.918	0.326	14.150	2.342	76.100
49	11	0.550	1.804	15.420	15.535	0.410	18.370	2.639	68.200
50	12	0.600	1.968	18.670	18.705	0.392	5.570	2.096	77.900
51	13	0.650	2.133	36.090	36.113	0.547	3.630	1.515	79.000
52	14	0.700	2.297	37.390	37.333	0.647	-9.090	1.733	84.500
53	15	0.750	2.461	31.110	31.060	0.778	-8.000	2.505	86.200
54	16	0.800	2.625	27.650	27.616	0.823	-5.490	2.980	80.100
55	17	0.850	2.789	24.010	24.032	0.820	3.470	3.412	90.300
56	18	0.900	2.953	22.030	22.015	0.839	-2.460	3.811	79.600
57	19	0.950	3.117	18.900	18.855	0.682	-7.160	3.617	87.800
58	20	1.000	3.281	14.400	14.375	0.606	-4.040	4.216	92.800
59	21	1.050	3.445	16.390	16.366	0.548	-3.850	3.348	97.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	12.210	12.201	0.548	-1.500	4.492	90.400
61	23	1.150	3.773	10.830	10.779	0.570	-8.140	5.288	89.800
62	24	1.200	3.937	13.510	13.462	0.523	-7.760	3.885	93.600
63	25	1.250	4.101	19.940	19.891	0.404	-7.890	2.031	88.800
64	26	1.300	4.265	16.070	16.016	0.307	-8.720	1.917	92.100
65	27	1.350	4.429	11.160	11.106	0.217	-8.610	1.954	96.800
66	28	1.400	4.593	9.260	9.214	0.144	-7.400	1.563	87.700
67	29	1.450	4.757	9.190	9.181	0.107	-1.430	1.165	104.900
68	30	1.500	4.921	8.370	8.363	0.190	-1.100	2.272	96.600
69	31	1.550	5.085	8.820	8.815	0.206	-0.830	2.337	87.200
70	32	1.600	5.249	9.300	9.299	0.235	-0.110	2.527	97.600
71	33	1.650	5.413	10.170	10.153	0.273	-2.780	2.689	89.600
72	34	1.700	5.577	9.590	9.572	0.254	-2.830	2.653	92.300
73	35	1.750	5.741	10.140	10.136	0.170	-0.600	1.677	93.000
74	36	1.800	5.905	23.480	23.414	0.664	-10.580	2.836	97.200
75	37	1.850	6.069	30.550	30.470	0.676	-12.880	2.219	100.700
76	38	1.900	6.234	23.310	23.275	0.855	-5.630	3.673	99.500
77	39	1.950	6.398	17.280	17.260	0.877	-3.150	5.081	91.700
78	40	2.000	6.562	17.980	17.982	0.684	0.350	3.804	101.800
79	41	2.050	6.726	21.310	21.337	0.652	4.300	3.056	103.400
80	42	2.100	6.890	20.160	20.191	0.676	5.040	3.348	99.300
81	43	2.150	7.054	18.380	18.418	0.717	6.020	3.893	91.300
82	44	2.200	7.218	17.570	17.609	0.680	6.220	3.862	93.800
83	45	2.250	7.382	15.240	15.243	0.630	0.550	4.133	88.200
84	46	2.300	7.546	11.940	11.931	0.577	-1.450	4.836	99.500
85	47	2.350	7.710	10.210	10.200	0.497	-1.660	4.873	85.200
86	48	2.400	7.874	8.840	8.817	0.503	-3.670	5.705	68.900
87	49	2.450	8.038	8.420	8.390	0.351	-4.880	4.184	64.700
88	50	2.500	8.202	53.790	53.762	0.589	-4.530	1.096	43.200
89	51	2.550	8.366	193.380	193.497	0.518	18.800	0.268	36.900
90	52	2.600	8.530	248.580	248.577	2.076	-0.530	0.835	33.700
91	53	2.650	8.694	89.110	89.100	2.442	-1.540	2.741	35.300
92	54	2.700	8.858	58.190	58.218	2.822	4.510	4.847	27.400
93	55	2.750	9.022	42.850	42.834	1.833	-2.560	4.279	22.100
94	56	2.800	9.186	37.560	37.532	1.799	-4.540	4.793	24.300
95	57	2.850	9.350	18.300	18.324	1.459	3.790	7.962	24.200
96	58	2.900	9.514	23.520	23.618	0.855	15.710	3.620	22.700
97	59	2.950	9.678	30.190	30.251	0.913	9.760	3.018	17.300
98	60	3.000	9.842	40.180	40.194	0.514	2.200	1.279	24.500
99	61	3.050	10.006	39.440	39.434	0.548	-1.010	1.390	24.000
100	62	3.100	10.170	34.960	35.014	0.426	8.720	1.217	26.900
101	63	3.150	10.335	31.020	31.030	0.622	1.570	2.005	30.300
102	64	3.200	10.499	19.460	19.543	0.661	13.280	3.382	34.400
103	65	3.250	10.663	35.250	35.312	0.764	9.920	2.164	26.200
104	66	3.300	10.827	43.210	43.201	0.695	-1.370	1.609	30.400
105	67	3.350	10.991	28.060	28.114	0.513	8.570	1.825	24.200
106	68	3.400	11.155	49.240	49.280	0.599	6.420	1.216	25.900
107	69	3.450	11.319	43.180	43.221	0.795	6.560	1.839	23.600
108	70	3.500	11.483	32.420	32.449	0.831	4.720	2.561	32.300
109	71	3.550	11.647	28.560	28.582	1.002	3.470	3.506	33.400
110	72	3.600	11.811	35.040	35.156	1.347	18.520	3.832	41.700
111	73	3.650	11.975	29.050	29.043	1.133	-1.050	3.901	48.800
112	74	3.700	12.139	47.660	47.647	1.185	-2.090	2.487	43.700
113	75	3.750	12.303	71.390	71.393	0.833	0.470	1.167	42.300
114	76	3.800	12.467	81.380	81.336	0.311	-7.110	0.382	44.700
115	77	3.850	12.631	62.100	62.900	1.663	128.150	2.644	51.300
116	78	3.900	12.795	117.120	117.160	1.860	6.430	1.588	47.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	52.160	52.599	1.794	70.350	3.411	45.500
118	80	4.000	13.123	23.940	23.959	1.079	3.110	4.503	63.300
119	81	4.050	13.287	20.970	20.973	0.596	0.540	2.842	59.000
120	82	4.100	13.451	21.080	21.130	0.728	8.030	3.445	68.000
121	83	4.150	13.615	26.140	26.266	0.529	20.170	2.014	70.700
122	84	4.200	13.779	36.400	36.453	0.825	8.420	2.263	44.200
123	85	4.250	13.943	60.710	60.827	0.725	18.740	1.192	46.600
124	86	4.300	14.107	55.390	55.466	0.911	12.160	1.642	37.900
125	87	4.350	14.271	41.220	41.333	1.269	18.100	3.070	33.800
126	88	4.400	14.436	49.340	49.410	1.177	11.140	2.382	35.100
127	89	4.450	14.600	64.920	65.173	1.268	40.570	1.946	27.000
128	90	4.500	14.764	94.290	94.437	1.386	23.550	1.468	39.400
129	91	4.550	14.928	112.330	112.463	1.261	21.330	1.121	26.300
130	92	4.600	15.092	141.910	142.058	1.878	23.770	1.322	35.800
131	93	4.650	15.256	160.640	160.810	2.045	27.190	1.272	35.500
132	94	4.700	15.420	50.120	50.130	2.055	1.630	4.099	40.600
133	95	4.750	15.584	59.000	59.117	1.747	18.760	2.955	42.200
134	96	4.800	15.748	28.800	28.830	1.250	4.820	4.336	47.100
135	97	4.850	15.912	24.570	24.585	0.927	2.420	3.771	78.100
136	98	4.900	16.076	51.780	51.876	0.793	15.430	1.529	64.400
137	99	4.950	16.240	32.320	32.387	0.705	10.750	2.177	89.200
138	100	5.000	16.404	33.960	34.022	0.732	9.970	2.152	81.200
139	101	5.050	16.568	35.850	35.933	0.679	13.320	1.890	85.900
140	102	5.100	16.732	44.380	44.483	0.759	16.430	1.706	98.300
141	103	5.150	16.896	55.590	55.788	0.978	31.680	1.753	77.800
142	104	5.200	17.060	83.030	83.212	1.344	29.080	1.615	86.200
143	105	5.250	17.224	72.390	72.504	1.704	18.330	2.350	87.300
144	106	5.300	17.388	52.010	52.085	1.655	12.040	3.177	82.100
145	107	5.350	17.552	36.970	37.027	1.368	9.080	3.695	92.200
146	108	5.400	17.716	35.740	35.792	1.118	8.280	3.124	81.700
147	109	5.450	17.880	37.490	37.602	0.885	18.020	2.354	82.800
148	110	5.500	18.044	26.820	26.874	0.682	8.730	2.538	75.400
149	111	5.550	18.208	21.560	21.595	0.494	5.680	2.288	75.900
150	112	5.600	18.372	21.580	21.609	0.622	4.620	2.878	54.800
151	113	5.650	18.537	29.710	29.771	0.769	9.790	2.583	49.800
152	114	5.700	18.701	28.710	28.755	1.041	7.200	3.620	46.700
153	115	5.750	18.865	30.210	30.244	1.122	5.410	3.710	39.400
154	116	5.800	19.029	27.540	27.574	0.876	5.450	3.177	56.000
155	117	5.850	19.193	30.040	30.105	0.628	10.480	2.086	63.200
156	118	5.900	19.357	56.610	56.706	0.473	15.330	0.834	66.100
157	119	5.950	19.521	71.880	71.987	0.392	17.190	0.545	69.900
158	120	6.000	19.685	61.410	61.487	0.398	12.320	0.647	73.600
159	121	6.050	19.849	49.870	49.927	0.576	9.190	1.154	78.800
160	122	6.100	20.013	41.070	41.115	0.780	7.210	1.897	73.700
161	123	6.150	20.177	55.890	55.961	0.804	11.420	1.437	72.800
162	124	6.200	20.341	52.760	53.041	0.832	45.020	1.569	66.100
163	125	6.250	20.505	42.000	42.141	0.830	22.520	1.970	85.800
164	126	6.300	20.669	51.360	51.458	0.578	15.640	1.123	65.800
165	127	6.350	20.833	55.230	55.314	0.476	13.490	0.861	75.900
166	128	6.400	20.997	57.650	57.733	0.532	13.330	0.921	70.900
167	129	6.450	21.161	54.500	54.593	0.564	14.890	1.033	65.100
168	130	6.500	21.325	44.780	44.857	0.681	12.360	1.518	65.100
169	131	6.550	21.489	35.860	35.911	1.032	8.190	2.874	64.400
170	132	6.600	21.653	37.410	37.486	0.968	12.240	2.582	53.800
171	133	6.650	21.817	52.160	52.220	1.455	9.590	2.786	47.900
172	134	6.700	21.981	92.050	92.199	2.050	23.800	2.223	48.500
173	135	6.750	22.145	55.030	55.262	1.944	37.220	3.518	49.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	31.630	31.691	1.537	9.800	4.850	43.700
175	137	6.850	22.473	28.410	28.504	0.839	15.060	2.943	57.900
176	138	6.900	22.638	48.730	48.831	0.602	16.200	1.233	65.200
177	139	6.950	22.802	46.270	46.350	0.552	12.800	1.191	78.000
178	140	7.000	22.966	55.150	55.243	0.998	14.850	1.807	67.800
179	141	7.050	23.130	46.870	46.942	1.184	11.520	2.522	81.400
180	142	7.100	23.294	34.190	34.282	1.488	14.660	4.341	65.900
181	143	7.150	23.458	48.920	49.088	1.108	26.940	2.257	47.800
182	144	7.200	23.622	67.490	67.532	0.796	6.680	1.179	41.400
183	145	7.250	23.786	150.780	151.091	2.382	49.740	1.577	43.200
184	146	7.300	23.950	120.990	121.084	2.847	15.030	2.351	33.800
185	147	7.350	24.114	46.560	46.704	2.436	23.140	5.216	32.900
186	148	7.400	24.278	61.300	61.743	2.050	71.020	3.320	25.900
187	149	7.450	24.442	100.260	100.485	2.384	35.980	2.373	28.600
188	150	7.500	24.606	61.570	61.971	2.284	64.310	3.686	24.300
189	151	7.550	24.770	60.570	60.663	2.412	14.960	3.976	29.200
190	152	7.600	24.934	59.910	60.048	1.965	22.150	3.272	22.100
191	153	7.650	25.098	58.470	58.801	1.852	53.050	3.150	22.400
192	154	7.700	25.262	42.220	42.215	1.757	-0.770	4.162	24.500
193	155	7.750	25.426	41.420	41.513	2.258	14.910	5.439	23.500
194	156	7.800	25.590	115.650	115.836	2.390	29.860	2.063	29.900
195	157	7.850	25.754	105.860	105.993	2.419	21.230	2.282	30.200
196	158	7.900	25.918	52.290	52.348	1.876	9.340	3.584	32.400
197	159	7.950	26.082	46.410	46.522	1.150	17.950	2.472	46.700
198	160	8.000	26.246	42.240	42.343	0.705	16.440	1.665	52.700
199	161	8.050	26.410	34.570	34.634	0.569	10.260	1.643	67.500
200	162	8.100	26.574	30.910	30.979	0.732	10.990	2.363	67.700
201	163	8.150	26.739	27.100	27.145	0.749	7.160	2.759	63.300
202	164	8.200	26.903	37.370	37.444	0.677	11.820	1.808	73.700
203	165	8.250	27.067	35.900	36.006	0.762	16.940	2.116	72.300
204	166	8.300	27.231	44.250	44.338	0.705	14.120	1.590	68.900
205	167	8.350	27.395	60.510	60.621	0.713	17.750	1.176	72.100
206	168	8.400	27.559	81.820	81.981	0.704	25.730	0.859	77.300
207	169	8.450	27.723	76.330	76.502	0.748	27.520	0.978	82.600
208	170	8.500	27.887	74.290	74.397	0.712	17.190	0.957	74.600
209	171	8.550	28.051	69.930	70.019	0.634	14.200	0.905	83.000
210	172	8.600	28.215	64.740	64.812	0.551	11.510	0.850	82.200
211	173	8.650	28.379	57.790	57.850	0.494	9.550	0.854	76.800
212	174	8.700	28.543	46.970	47.012	0.547	6.680	1.164	70.800
213	175	8.750	28.707	38.070	38.096	0.663	4.120	1.740	71.300
214	176	8.800	28.871	32.300	32.335	0.762	5.610	2.357	70.000
215	177	8.850	29.035	57.300	57.381	1.256	12.920	2.189	71.100
216	178	8.900	29.199	58.840	58.904	1.296	10.190	2.200	82.600
217	179	8.950	29.363	37.080	37.100	1.161	3.260	3.129	58.500
218	180	9.000	29.527	31.350	31.393	0.843	6.850	2.685	72.300
219	181	9.050	29.691	42.740	42.822	0.626	13.210	1.462	71.100
220	182	9.100	29.855	43.670	43.752	0.636	13.090	1.454	78.900
221	183	9.150	30.019	38.040	38.096	0.613	9.000	1.609	76.700
222	184	9.200	30.183	31.090	31.139	0.705	7.790	2.264	69.300
223	185	9.250	30.347	28.930	28.975	0.524	7.280	1.808	84.900
224	186	9.300	30.511	48.940	49.032	0.586	14.750	1.195	77.500
225	187	9.350	30.675	32.940	33.012	0.861	11.520	2.608	78.800
226	188	9.400	30.840	23.090	23.176	1.362	13.720	5.877	75.700
227	189	9.450	31.004	47.690	48.393	2.131	112.570	4.404	70.100
228	190	9.500	31.168	140.550	140.729	2.239	28.740	1.591	72.700
229	191	9.550	31.332	124.690	124.800	3.537	17.580	2.834	56.200
230	192	9.600	31.496	73.240	73.274	3.660	5.420	4.995	52.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	90.590	91.483	2.861	143.110	3.127	42.200
232	194	9.700	31.824	68.750	69.530	1.516	124.950	2.180	40.200
233	195	9.750	31.988	97.800	97.933	1.137	21.290	1.161	33.900
234	196	9.800	32.152	98.970	99.044	0.910	11.800	0.919	40.600
235	197	9.850	32.316	82.550	82.601	0.908	8.160	1.099	30.200
236	198	9.900	32.480	74.110	74.154	0.978	7.080	1.319	34.400
237	199	9.950	32.644	61.880	61.917	1.272	5.850	2.054	31.700
238	200	10.000	32.808	47.120	47.155	1.265	5.580	2.683	35.400
239	201	10.050	32.972	38.450	38.490	1.379	6.400	3.583	41.800
240	202	10.100	33.136	45.290	45.358	1.189	10.830	2.621	32.400
241	203	10.150	33.300	52.540	53.315	1.534	124.160	2.877	35.700
242	204	10.200	33.464	62.830	62.940	2.107	17.610	3.348	36.000
243	205	10.250	33.628	71.550	71.629	2.367	12.620	3.305	33.300
244	206	10.300	33.792	72.110	72.742	2.809	101.260	3.862	31.900
245	207	10.350	33.956	97.640	98.572	2.452	149.340	2.488	37.200
246	208	10.400	34.120	103.470	103.650	2.053	28.900	1.981	41.900
247	209	10.450	34.284	83.720	83.780	1.786	9.610	2.132	42.100
248	210	10.500	34.448	48.610	48.631	1.144	3.400	2.352	41.900
249	211	10.550	34.612	11.790	11.806	0.905	2.580	7.666	58.800
250	212	10.600	34.776	14.970	14.959	0.374	-1.750	2.500	59.100
251	213	10.650	34.941	26.820	26.871	0.469	8.190	1.745	65.500
252	214	10.700	35.105	21.480	21.497	0.624	2.750	2.903	63.100
253	215	10.750	35.269	26.380	26.415	0.468	5.620	1.772	68.500
254	216	10.800	35.433	21.930	21.980	0.421	7.980	1.915	71.000
255	217	10.850	35.597	22.090	22.173	0.519	13.230	2.341	74.800
256	218	10.900	35.761	42.700	42.779	0.758	12.680	1.772	77.900
257	219	10.950	35.925	34.810	34.874	0.958	10.290	2.747	83.500
258	220	11.000	36.089	35.660	35.799	1.188	22.280	3.319	96.800
259	221	11.050	36.253	58.180	58.424	1.613	39.070	2.761	91.600
260	222	11.100	36.417	55.500	55.630	1.654	20.840	2.973	98.100
261	223	11.150	36.581	75.740	76.190	2.096	72.080	2.751	89.100
262	224	11.200	36.745	69.600	69.694	2.254	15.010	3.234	97.300
263	225	11.250	36.909	48.480	48.566	2.162	13.780	4.452	91.500
264	226	11.300	37.073	43.580	43.788	1.963	33.320	4.483	99.800
265	227	11.350	37.237	70.580	71.737	1.679	185.280	2.341	99.600
266	228	11.400	37.401	90.100	90.255	1.631	24.850	1.807	95.400
267	229	11.450	37.565	73.680	73.763	1.869	13.240	2.534	88.700
268	230	11.500	37.729	54.310	54.345	1.684	5.530	3.099	83.400
269	231	11.550	37.893	51.020	51.079	1.532	9.400	2.999	71.000
270	232	11.600	38.057	60.050	60.099	1.260	7.780	2.097	70.700
271	233	11.650	38.221	54.910	54.951	1.532	6.600	2.788	63.200
272	234	11.700	38.385	22.290	22.275	1.206	-2.480	5.414	49.900
273	235	11.750	38.549	62.100	62.181	1.729	12.900	2.781	57.700
274	236	11.800	38.713	80.990	81.024	1.803	5.370	2.225	51.700
275	237	11.850	38.877	74.880	74.972	2.622	14.660	3.497	45.900
276	238	11.900	39.042	164.970	165.072	3.237	16.270	1.961	44.100
277	239	11.950	39.206	146.460	146.603	3.357	22.890	2.290	33.700
278	240	12.000	39.370	93.970	94.316	3.021	55.430	3.203	44.400
279	241	12.050	39.534	70.710	70.979	2.048	43.070	2.885	51.200
280	242	12.100	39.698	30.660	30.834	1.499	27.800	4.862	62.600
281	243	12.150	39.862	23.690	24.100	0.925	65.750	3.838	88.200
282	244	12.200	40.026	22.910	23.282	0.761	59.570	3.269	81.800
283	245	12.250	40.190	23.020	23.511	0.780	78.620	3.318	83.300
284	246	12.300	40.354	22.560	22.988	0.814	68.630	3.541	82.500
285	247	12.350	40.518	26.290	26.722	0.504	69.230	1.886	62.800
286	248	12.400	40.682	63.390	63.830	0.534	70.410	0.837	56.600
287	249	12.450	40.846	125.920	126.036	2.083	18.570	1.653	40.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	123.320	123.390	2.083	11.210	1.688	30.800
289	251	12.550	41.174	50.400	50.484	2.156	13.400	4.271	28.100
290	252	12.600	41.338	49.310	49.343	1.109	5.330	2.248	20.600
291	253	12.650	41.502	34.460	34.484	0.613	3.800	1.778	16.900
292	254	12.700	41.666	20.280	20.267	0.638	-2.050	3.148	16.800
293	255	12.750	41.830	29.860	29.951	4.430	14.560	14.791	12.200
294	256	12.800	41.994	60.040	60.143	2.406	16.530	4.000	12.300
295	257	12.850	42.158	43.210	43.212	6.372	0.350	14.746	10.600
296	258	12.900	42.322	58.130	58.341	2.202	33.820	3.774	15.800
297	259	12.950	42.486	40.330	40.496	2.166	26.670	5.349	18.800
298	260	13.000	42.650	31.220	31.610	1.168	62.550	3.695	19.400
299	261	13.050	42.814	49.400	49.537	0.586	21.920	1.183	23.100
300	262	13.100	42.978	84.520	84.673	0.821	24.460	0.970	33.200
301	263	13.150	43.143	72.860	72.972	1.242	17.980	1.702	41.700
302	264	13.200	43.307	56.410	56.576	1.133	26.580	2.003	51.600
303	265	13.250	43.471	54.080	54.717	1.379	101.980	2.520	58.900
304	266	13.300	43.635	62.740	62.894	1.245	24.630	1.980	59.500
305	267	13.350	43.799	50.360	50.457	1.291	15.500	2.559	50.900
306	268	13.400	43.963	40.250	40.329	1.401	12.620	3.474	53.300
307	269	13.450	44.127	27.500	28.025	1.579	84.080	5.634	51.200
308	270	13.500	44.291	46.560	46.854	1.370	47.110	2.924	42.700
309	271	13.550	44.455	56.960	57.353	1.680	63.000	2.929	27.600
310	272	13.600	44.619	79.110	79.267	2.099	25.160	2.648	28.100
311	273	13.650	44.783	70.830	70.924	2.032	14.980	2.865	35.000
312	274	13.700	44.947	51.730	51.845	2.159	18.480	4.164	34.000
313	275	13.750	45.111	57.270	57.389	1.781	18.990	3.103	33.200
314	276	13.800	45.275	83.890	84.081	1.943	30.660	2.311	38.300
315	277	13.850	45.439	77.000	77.080	2.243	12.850	2.910	38.500
316	278	13.900	45.603	75.610	75.685	2.632	12.070	3.478	49.100
317	279	13.950	45.767	89.420	89.563	1.271	22.960	1.419	34.500
318	280	14.000	45.931	115.300	115.525	2.005	36.110	1.736	33.100
319	281	14.050	46.095	63.880	63.943	1.961	10.130	3.067	25.900
320	282	14.100	46.259	50.760	50.760	1.703	-0.050	3.355	28.800
321	283	14.150	46.423	72.610	72.673	1.222	10.140	1.681	27.900
322	284	14.200	46.587	68.340	68.425	1.107	13.680	1.618	18.300
323	285	14.250	46.751	137.770	137.885	1.512	18.410	1.097	15.900
324	286	14.300	46.915	52.410	52.417	2.101	1.110	4.008	17.800
325	287	14.350	47.079	54.090	54.107	1.834	2.750	3.390	21.600
326	288	14.400	47.244	89.190	89.193	1.866	0.470	2.092	28.500
327	289	14.450	47.408	172.600	172.846	4.339	39.450	2.510	42.200
328	290	14.500	47.572	207.790	208.177	4.253	61.970	2.043	43.900
329	291	14.550	47.736	74.880	74.923	4.135	6.870	5.519	72.000
330	292	14.600	47.900	65.280	65.565	2.637	45.660	4.022	109.700
331	293	14.650	48.064	40.630	40.853	1.457	35.800	3.566	139.400
332	294	14.700	48.228	30.040	31.181	1.488	182.700	4.772	176.500
333	295	14.750	48.392	30.770	31.464	1.134	111.220	3.604	217.900
334	296	14.800	48.556	69.300	70.334	1.594	165.690	2.266	237.600
335	297	14.850	48.720	86.260	86.459	2.712	31.930	3.137	227.000
336	298	14.900	48.884	92.440	92.588	3.441	23.760	3.716	206.700
337	299	14.950	49.048	102.430	102.633	2.952	32.480	2.876	184.100
338	300	15.000	49.212	90.570	90.805	2.595	37.610	2.858	204.300
339	301	15.050	49.376	75.900	76.012	2.330	17.980	3.065	198.700
340	302	15.100	49.540	78.210	78.303	1.874	14.890	2.393	181.700
341	303	15.150	49.704	31.200	31.262	1.770	9.980	5.662	255.900
342	304	15.200	49.868	26.620	26.681	1.370	9.840	5.135	295.200
343	305	15.250	50.032	23.420	23.504	1.116	13.440	4.748	0.000
344	306	15.300	50.196	39.390	39.555	1.445	26.500	3.653	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	52.260	52.356	1.351	15.410	2.580	0.000
346	308	15.400	50.524	62.210	62.286	1.441	12.200	2.314	0.000
347	309	15.450	50.688	51.420	51.516	1.082	15.360	2.100	0.000
348	310	15.500	50.852	36.120	36.268	1.446	23.720	3.987	0.000
349	311	15.550	51.016	45.910	46.027	1.344	18.670	2.920	0.000
350	312	15.600	51.180	64.610	64.730	1.515	19.160	2.341	0.000
351	313	15.650	51.345	38.480	38.533	1.770	8.450	4.593	0.000
352	314	15.700	51.509	35.270	35.331	1.660	9.700	4.698	0.000
353	315	15.750	51.673	33.260	33.451	1.106	30.650	3.306	0.000
354	316	15.800	51.837	30.340	30.451	1.092	17.730	3.586	0.000
355	317	15.850	52.001	27.910	27.905	1.319	-0.770	4.727	0.000
356	318	15.900	52.165	26.150	26.118	1.519	-5.180	5.816	0.000
357	319	15.950	52.329	512.160	512.293	0.000	21.230	0.000	0.000
358	320	16.000	52.493	558.620	558.767	0.000	23.570	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272420				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-16				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-19-2015				
14		CPT Time:			08:30				
15		CPT File:			15-53039_GP1D-16.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722077.949				
31		Northing / Lat:			4294171.359				
32		Elevation:			147.680				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	24.830	24.829	0.072	-0.230	0.290	15.700
40	2	0.100	0.328	63.730	63.752	0.046	3.450	0.072	17.800
41	3	0.150	0.492	58.880	58.913	0.111	5.220	0.188	25.900
42	4	0.200	0.656	62.600	62.615	0.097	2.390	0.155	20.200
43	5	0.250	0.820	61.360	61.397	0.076	5.880	0.124	26.600
44	6	0.300	0.984	53.600	53.702	0.166	16.310	0.309	28.200
45	7	0.350	1.148	56.180	56.173	0.122	-1.060	0.217	32.100
46	8	0.400	1.312	55.370	55.362	0.387	-1.250	0.699	35.700
47	9	0.450	1.476	66.400	66.433	0.303	5.280	0.456	45.000
48	10	0.500	1.640	38.550	38.580	0.461	4.760	1.195	66.400
49	11	0.550	1.804	36.400	36.541	0.652	22.600	1.784	74.800
50	12	0.600	1.968	48.100	48.149	0.629	7.770	1.306	81.200
51	13	0.650	2.133	49.170	49.184	0.512	2.200	1.041	82.300
52	14	0.700	2.297	49.210	49.199	0.562	-1.750	1.142	83.200
53	15	0.750	2.461	54.360	54.486	0.658	20.190	1.208	75.700
54	16	0.800	2.625	42.140	42.144	0.917	0.640	2.176	82.500
55	17	0.850	2.789	30.070	30.085	0.799	2.480	2.656	86.200
56	18	0.900	2.953	22.370	22.369	0.656	-0.110	2.933	87.200
57	19	0.950	3.117	16.890	16.891	0.458	0.160	2.712	94.200
58	20	1.000	3.281	13.890	13.893	0.397	0.470	2.858	96.700
59	21	1.050	3.445	14.170	14.176	0.341	0.950	2.405	85.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	11.030	11.025	0.320	-0.830	2.903	94.300
61	23	1.150	3.773	10.300	10.303	0.286	0.540	2.776	84.100
62	24	1.200	3.937	11.570	11.584	0.260	2.190	2.245	92.100
63	25	1.250	4.101	11.130	11.148	0.245	2.920	2.198	90.200
64	26	1.300	4.265	10.110	10.112	0.217	0.320	2.146	79.200
65	27	1.350	4.429	10.880	10.877	0.221	-0.450	2.032	87.400
66	28	1.400	4.593	11.150	11.150	0.270	-0.050	2.422	83.100
67	29	1.450	4.757	13.790	13.805	0.261	2.400	1.891	97.100
68	30	1.500	4.921	14.160	14.163	0.336	0.490	2.372	99.000
69	31	1.550	5.085	14.830	14.844	0.374	2.240	2.520	88.500
70	32	1.600	5.249	17.260	17.269	0.452	1.420	2.617	99.000
71	33	1.650	5.413	19.230	19.255	0.520	4.050	2.701	96.900
72	34	1.700	5.577	28.510	28.566	0.583	8.910	2.041	93.300
73	35	1.750	5.741	23.700	23.688	0.679	-1.850	2.866	94.600
74	36	1.800	5.905	20.700	20.666	0.641	-5.510	3.102	104.600
75	37	1.850	6.069	20.090	20.057	0.653	-5.360	3.256	88.400
76	38	1.900	6.234	25.920	25.892	0.669	-4.540	2.584	98.300
77	39	1.950	6.398	30.750	30.739	0.733	-1.700	2.385	97.400
78	40	2.000	6.562	28.560	28.535	0.756	-3.960	2.649	85.900
79	41	2.050	6.726	24.780	24.747	0.766	-5.320	3.095	97.600
80	42	2.100	6.890	24.050	24.023	0.705	-4.350	2.935	95.300
81	43	2.150	7.054	33.100	33.088	0.749	-1.890	2.264	103.500
82	44	2.200	7.218	31.440	31.436	0.814	-0.570	2.589	95.400
83	45	2.250	7.382	24.950	24.926	0.732	-3.920	2.937	96.100
84	46	2.300	7.546	21.790	21.765	0.625	-4.020	2.872	88.200
85	47	2.350	7.710	17.910	17.922	0.263	1.940	1.467	97.300
86	48	2.400	7.874	17.600	17.591	0.490	-1.450	2.786	92.400
87	49	2.450	8.038	9.270	9.281	0.451	1.820	4.859	89.100
88	50	2.500	8.202	15.090	15.063	0.479	-4.270	3.180	89.400
89	51	2.550	8.366	22.420	22.352	0.492	-10.850	2.201	79.600
90	52	2.600	8.530	36.830	36.754	0.780	-12.220	2.122	56.200
91	53	2.650	8.694	44.670	44.696	0.900	4.160	2.014	44.800
92	54	2.700	8.858	29.480	29.502	0.767	3.510	2.600	38.100
93	55	2.750	9.022	22.630	22.667	0.579	5.850	2.554	33.900
94	56	2.800	9.186	38.420	38.448	0.939	4.550	2.442	28.900
95	57	2.850	9.350	54.680	54.736	1.114	8.900	2.035	31.600
96	58	2.900	9.514	45.750	45.747	1.348	-0.410	2.947	30.100
97	59	2.950	9.678	26.210	26.272	1.091	10.000	4.153	25.900
98	60	3.000	9.842	19.250	19.300	0.795	7.930	4.119	32.100
99	61	3.050	10.006	16.150	16.156	0.658	1.040	4.073	28.800
100	62	3.100	10.170	16.870	16.890	0.608	3.170	3.600	36.200
101	63	3.150	10.335	10.420	10.502	0.566	13.130	5.389	34.700
102	64	3.200	10.499	15.540	15.591	0.716	8.110	4.593	34.700
103	65	3.250	10.663	40.830	40.858	0.806	4.510	1.973	25.100
104	66	3.300	10.827	68.640	68.742	1.102	16.350	1.603	29.100
105	67	3.350	10.991	38.400	38.430	1.351	4.850	3.515	27.500
106	68	3.400	11.155	25.780	25.804	1.560	3.860	6.046	36.300
107	69	3.450	11.319	39.140	39.175	1.020	5.610	2.604	36.400
108	70	3.500	11.483	80.900	80.999	1.096	15.810	1.353	36.500
109	71	3.550	11.647	37.350	37.371	1.123	3.310	3.005	38.600
110	72	3.600	11.811	19.190	19.394	0.657	32.720	3.388	43.300
111	73	3.650	11.975	21.860	21.945	0.635	13.670	2.894	40.100
112	74	3.700	12.139	23.050	23.135	0.575	13.560	2.485	46.900
113	75	3.750	12.303	13.270	13.382	0.680	17.920	5.082	39.500
114	76	3.800	12.467	22.140	22.167	0.735	4.320	3.316	37.100
115	77	3.850	12.631	24.040	24.044	0.713	0.610	2.965	40.700
116	78	3.900	12.795	28.130	28.149	0.619	2.990	2.199	32.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	28.640	28.633	0.736	-1.140	2.570	46.100
118	80	4.000	13.123	32.150	32.267	0.629	18.680	1.949	39.200
119	81	4.050	13.287	29.540	29.537	1.001	-0.520	3.389	50.700
120	82	4.100	13.451	66.480	66.471	0.821	-1.390	1.235	50.900
121	83	4.150	13.615	29.650	29.759	0.756	17.430	2.540	43.600
122	84	4.200	13.779	79.270	79.292	0.886	3.550	1.117	34.800
123	85	4.250	13.943	77.180	77.351	0.793	27.380	1.025	38.100
124	86	4.300	14.107	51.480	51.654	1.075	27.890	2.081	36.600
125	87	4.350	14.271	47.900	48.184	0.991	45.550	2.057	30.400
126	88	4.400	14.436	122.030	122.025	1.024	-0.790	0.839	31.400
127	89	4.450	14.600	60.600	60.652	1.395	8.270	2.300	30.100
128	90	4.500	14.764	32.310	32.298	1.172	-1.960	3.629	32.000
129	91	4.550	14.928	11.760	11.807	0.819	7.540	6.937	39.400
130	92	4.600	15.092	14.350	14.446	0.749	15.390	5.185	34.100
131	93	4.650	15.256	29.240	29.434	0.761	31.140	2.585	32.900
132	94	4.700	15.420	23.000	23.109	1.118	17.490	4.838	39.300
133	95	4.750	15.584	47.830	47.861	1.535	4.960	3.207	46.200
134	96	4.800	15.748	43.970	44.061	1.669	14.630	3.788	52.400
135	97	4.850	15.912	23.410	23.637	1.446	36.310	6.118	51.500
136	98	4.900	16.076	40.770	40.805	1.477	5.620	3.620	62.400
137	99	4.950	16.240	31.730	31.796	0.978	10.620	3.076	71.700
138	100	5.000	16.404	50.330	50.374	1.280	7.100	2.541	56.900
139	101	5.050	16.568	73.640	73.625	1.078	-2.390	1.464	69.700
140	102	5.100	16.732	41.490	41.551	1.119	9.840	2.693	74.500
141	103	5.150	16.896	68.340	68.434	1.573	15.090	2.299	80.100
142	104	5.200	17.060	95.400	95.388	1.905	-1.860	1.997	85.400
143	105	5.250	17.224	50.860	50.873	1.951	2.050	3.835	87.300
144	106	5.300	17.388	42.260	42.528	1.480	42.890	3.480	89.500
145	107	5.350	17.552	35.290	35.519	1.419	36.610	3.995	95.800
146	108	5.400	17.716	39.790	39.984	1.438	31.130	3.596	85.700
147	109	5.450	17.880	40.750	40.815	1.323	10.400	3.241	86.400
148	110	5.500	18.044	34.400	34.438	1.257	6.130	3.650	74.800
149	111	5.550	18.208	27.870	27.902	1.306	5.110	4.681	84.400
150	112	5.600	18.372	62.500	62.525	1.101	3.980	1.761	88.900
151	113	5.650	18.537	42.360	42.454	0.977	14.990	2.301	79.100
152	114	5.700	18.701	55.090	55.109	0.915	3.030	1.660	87.300
153	115	5.750	18.865	66.850	66.884	0.793	5.420	1.186	78.800
154	116	5.800	19.029	73.060	73.123	0.874	10.090	1.195	88.300
155	117	5.850	19.193	76.840	76.909	1.010	11.020	1.313	79.200
156	118	5.900	19.357	83.610	83.661	1.060	8.200	1.267	72.400
157	119	5.950	19.521	91.000	91.048	1.133	7.740	1.244	84.500
158	120	6.000	19.685	99.330	99.375	1.429	7.190	1.438	73.100
159	121	6.050	19.849	99.140	99.200	1.673	9.600	1.686	69.800
160	122	6.100	20.013	93.150	93.204	1.815	8.610	1.947	71.400
161	123	6.150	20.177	76.380	76.432	1.669	8.260	2.184	75.900
162	124	6.200	20.341	51.430	51.480	1.697	7.990	3.296	78.100
163	125	6.250	20.505	47.980	48.025	1.727	7.160	3.596	49.600
164	126	6.300	20.669	134.710	134.877	2.142	26.820	1.588	46.000
165	127	6.350	20.833	236.780	236.793	3.381	2.080	1.428	42.800
166	128	6.400	20.997	240.720	240.754	4.259	5.420	1.769	39.200
167	129	6.450	21.161	145.810	145.796	4.654	-2.170	3.192	38.000
168	130	6.500	21.325	76.480	76.679	3.925	31.930	5.119	33.200
169	131	6.550	21.489	44.090	44.120	2.745	4.770	6.222	40.200
170	132	6.600	21.653	14.520	14.590	1.396	11.210	9.568	38.500
171	133	6.650	21.817	11.030	11.067	0.910	5.960	8.222	36.100
172	134	6.700	21.981	34.860	34.867	0.679	1.050	1.947	50.200
173	135	6.750	22.145	41.030	41.044	1.063	2.250	2.590	57.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	53.600	53.611	1.442	1.730	2.690	54.900
175	137	6.850	22.473	60.630	60.702	1.638	11.590	2.698	54.100
176	138	6.900	22.638	26.860	26.918	1.597	9.270	5.933	51.200
177	139	6.950	22.802	25.610	25.773	0.986	26.090	3.826	55.600
178	140	7.000	22.966	31.860	32.127	0.811	42.770	2.524	47.000
179	141	7.050	23.130	39.710	39.757	1.105	7.590	2.779	46.900
180	142	7.100	23.294	34.970	35.005	1.074	5.640	3.068	35.400
181	143	7.150	23.458	22.170	22.232	1.147	9.970	5.159	31.500
182	144	7.200	23.622	23.240	23.297	1.124	9.160	4.825	19.100
183	145	7.250	23.786	19.930	20.412	1.235	77.150	6.050	17.800
184	146	7.300	23.950	59.280	59.548	1.221	42.930	2.050	23.300
185	147	7.350	24.114	77.770	77.858	1.122	14.120	1.441	25.300
186	148	7.400	24.278	105.930	106.061	1.540	20.960	1.452	22.000
187	149	7.450	24.442	81.470	81.500	1.118	4.750	1.372	20.900
188	150	7.500	24.606	58.600	58.634	1.455	5.400	2.482	17.000
189	151	7.550	24.770	31.220	31.209	1.472	-1.720	4.717	28.100
190	152	7.600	24.934	28.850	28.840	1.806	-1.670	6.262	28.200
191	153	7.650	25.098	27.500	27.535	0.952	5.530	3.457	33.300
192	154	7.700	25.262	27.930	27.965	1.057	5.600	3.780	29.600
193	155	7.750	25.426	33.990	34.008	0.680	2.880	2.000	35.900
194	156	7.800	25.590	43.790	43.819	0.816	4.700	1.862	29.700
195	157	7.850	25.754	48.180	48.167	0.826	-2.140	1.715	38.000
196	158	7.900	25.918	135.440	135.457	1.326	2.650	0.979	41.500
197	159	7.950	26.082	209.790	209.963	0.982	27.690	0.468	46.900
198	160	8.000	26.246	216.320	217.727	0.311	225.400	0.143	43.500
199	161	8.050	26.410	163.990	164.667	0.013	108.420	0.008	47.700
200	162	8.100	26.574	105.180	105.260	0.010	12.770	0.010	48.800
201	163	8.150	26.739	74.460	74.478	0.011	2.850	0.015	27.600
202	164	8.200	26.903	46.650	46.631	0.012	-3.040	0.026	26.500
203	165	8.250	27.067	37.100	37.087	0.011	-2.100	0.030	27.100
204	166	8.300	27.231	32.510	32.500	0.010	-1.600	0.031	20.500
205	167	8.350	27.395	33.470	33.465	0.117	-0.850	0.350	28.900
206	168	8.400	27.559	57.740	57.746	0.379	0.900	0.656	28.900
207	169	8.450	27.723	90.570	90.586	0.664	2.560	0.733	37.300
208	170	8.500	27.887	123.840	123.883	0.918	6.870	0.741	45.100
209	171	8.550	28.051	174.260	174.565	0.705	48.900	0.404	57.400
210	172	8.600	28.215	251.860	252.600	0.564	118.560	0.223	62.800
211	173	8.650	28.379	256.600	257.050	0.620	72.060	0.241	77.300
212	174	8.700	28.543	249.610	249.977	0.515	58.850	0.206	77.500
213	175	8.750	28.707	233.240	233.438	0.435	31.650	0.186	73.700
214	176	8.800	28.871	230.550	230.715	0.345	26.470	0.150	76.300
215	177	8.850	29.035	229.220	229.385	0.117	26.490	0.051	84.800
216	178	8.900	29.199	222.920	223.082	0.025	25.940	0.011	72.400
217	179	8.950	29.363	218.570	218.864	0.033	47.170	0.015	76.400
218	180	9.000	29.527	195.320	196.657	0.011	214.220	0.006	77.800
219	181	9.050	29.691	168.540	168.754	0.011	34.220	0.007	81.100
220	182	9.100	29.855	148.330	148.437	0.011	17.060	0.007	60.000
221	183	9.150	30.019	122.890	122.933	0.010	6.950	0.008	64.500
222	184	9.200	30.183	100.870	100.859	0.010	-1.810	0.010	52.200
223	185	9.250	30.347	104.970	104.943	0.012	-4.350	0.011	54.700
224	186	9.300	30.511	138.280	138.334	0.053	8.700	0.038	66.700
225	187	9.350	30.675	124.950	124.964	0.297	2.260	0.238	51.300
226	188	9.400	30.840	84.410	84.478	0.308	10.950	0.365	50.600
227	189	9.450	31.004	49.460	49.484	0.308	3.780	0.622	45.900
228	190	9.500	31.168	54.030	54.034	0.293	0.690	0.542	44.000
229	191	9.550	31.332	75.000	75.004	0.366	0.670	0.488	38.000
230	192	9.600	31.496	102.490	102.507	0.399	2.750	0.389	34.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	104.950	104.978	0.343	4.470	0.327	31.500
232	194	9.700	31.824	90.960	91.020	0.497	9.540	0.546	30.900
233	195	9.750	31.988	80.650	80.685	0.394	5.670	0.488	31.300
234	196	9.800	32.152	103.730	103.766	0.127	5.830	0.122	26.600
235	197	9.850	32.316	107.280	107.327	0.073	7.540	0.068	33.600
236	198	9.900	32.480	101.710	101.742	0.018	5.150	0.018	24.500
237	199	9.950	32.644	90.930	90.957	0.090	4.270	0.099	35.500
238	200	10.000	32.808	71.430	71.532	0.334	16.390	0.467	41.900
239	201	10.050	32.972	69.950	69.951	0.472	0.220	0.675	43.200
240	202	10.100	33.136	93.690	93.716	0.230	4.230	0.245	43.400
241	203	10.150	33.300	120.310	120.328	0.396	2.890	0.329	42.800
242	204	10.200	33.464	118.920	119.133	0.598	34.190	0.502	57.700
243	205	10.250	33.628	117.080	117.268	0.429	30.040	0.366	62.900
244	206	10.300	33.792	156.290	156.484	0.289	31.010	0.185	60.500
245	207	10.350	33.956	140.280	140.471	0.201	30.560	0.143	73.300
246	208	10.400	34.120	108.860	109.099	0.610	38.220	0.559	56.600
247	209	10.450	34.284	98.920	98.989	0.177	11.130	0.179	40.800
248	210	10.500	34.448	105.130	105.217	0.020	13.870	0.019	41.900
249	211	10.550	34.612	127.210	127.310	0.071	16.020	0.056	36.100
250	212	10.600	34.776	106.900	107.025	0.278	20.090	0.260	41.100
251	213	10.650	34.941	118.620	118.613	0.276	-1.160	0.233	43.400
252	214	10.700	35.105	139.600	139.601	0.319	0.210	0.229	43.300
253	215	10.750	35.269	164.340	164.523	0.273	29.370	0.166	56.200
254	216	10.800	35.433	145.960	146.365	0.073	64.900	0.050	65.100
255	217	10.850	35.597	109.690	109.840	0.046	23.960	0.042	63.100
256	218	10.900	35.761	90.420	90.523	0.019	16.460	0.021	85.200
257	219	10.950	35.925	77.210	77.282	0.020	11.460	0.026	87.500
258	220	11.000	36.089	60.920	60.950	0.200	4.780	0.328	89.400
259	221	11.050	36.253	58.400	58.412	0.217	1.970	0.371	65.400
260	222	11.100	36.417	75.600	75.629	0.350	4.630	0.463	58.400
261	223	11.150	36.581	65.710	65.759	0.387	7.860	0.589	56.700
262	224	11.200	36.745	67.280	67.375	0.534	15.160	0.793	50.900
263	225	11.250	36.909	132.540	132.588	0.415	7.630	0.313	44.700
264	226	11.300	37.073	145.550	145.637	0.023	13.990	0.016	56.200
265	227	11.350	37.237	95.620	95.688	0.025	10.870	0.026	55.300
266	228	11.400	37.401	49.730	49.763	0.025	5.210	0.050	65.900
267	229	11.450	37.565	47.090	47.116	0.135	4.090	0.287	67.500
268	230	11.500	37.729	47.700	47.730	0.175	4.800	0.367	60.300
269	231	11.550	37.893	61.010	61.055	0.176	7.140	0.288	48.800
270	232	11.600	38.057	60.840	60.889	0.235	7.770	0.386	45.100
271	233	11.650	38.221	64.360	64.420	0.134	9.630	0.208	41.900
272	234	11.700	38.385	69.690	69.761	0.716	11.380	1.026	30.600
273	235	11.750	38.549	75.730	75.857	1.379	20.320	1.818	35.300
274	236	11.800	38.713	125.270	125.546	1.911	44.170	1.522	21.700
275	237	11.850	38.877	235.590	236.189	1.917	96.030	0.812	37.900
276	238	11.900	39.042	290.690	292.238	1.732	247.970	0.593	38.000
277	239	11.950	39.206	255.080	256.454	1.063	220.040	0.414	30.000
278	240	12.000	39.370	223.380	225.177	0.118	287.910	0.052	32.700
279	241	12.050	39.534	114.900	114.984	0.040	13.400	0.035	37.100
280	242	12.100	39.698	114.470	114.488	0.027	2.930	0.024	45.400
281	243	12.150	39.862	96.830	96.987	0.027	25.150	0.028	50.600
282	244	12.200	40.026	71.760	71.823	0.026	10.040	0.036	61.200
283	245	12.250	40.190	57.100	57.136	0.027	5.730	0.047	69.100
284	246	12.300	40.354	44.910	44.930	0.027	3.250	0.060	76.200
285	247	12.350	40.518	44.960	44.984	0.029	3.870	0.064	83.400
286	248	12.400	40.682	49.840	49.873	0.030	5.360	0.060	85.000
287	249	12.450	40.846	61.330	61.408	0.028	12.440	0.046	92.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	58.270	58.344	0.029	11.830	0.050	86.200
289	251	12.550	41.174	58.700	58.774	0.027	11.850	0.046	74.800
290	252	12.600	41.338	64.000	64.084	0.029	13.420	0.045	74.400
291	253	12.650	41.502	76.670	76.747	0.099	12.380	0.129	65.700
292	254	12.700	41.666	81.450	81.521	0.373	11.410	0.458	53.900
293	255	12.750	41.830	92.480	92.601	0.316	19.330	0.341	41.200
294	256	12.800	41.994	121.880	122.027	0.673	23.480	0.552	40.600
295	257	12.850	42.158	196.110	196.216	0.969	16.940	0.494	44.600
296	258	12.900	42.322	138.500	138.888	1.711	62.180	1.232	38.900
297	259	12.950	42.486	142.380	142.789	2.698	65.530	1.890	42.300
298	260	13.000	42.650	263.740	264.386	3.433	103.420	1.298	38.700
299	261	13.050	42.814	255.380	256.529	4.426	184.110	1.725	44.500
300	262	13.100	42.978	87.560	87.548	3.585	-1.920	4.095	40.700
301	263	13.150	43.143	68.260	68.274	2.670	2.190	3.911	45.900
302	264	13.200	43.307	55.610	55.618	1.515	1.310	2.724	43.000
303	265	13.250	43.471	42.200	42.213	1.245	2.040	2.949	45.600
304	266	13.300	43.635	62.680	62.689	1.244	1.430	1.984	48.100
305	267	13.350	43.799	68.900	68.896	1.250	-0.620	1.814	44.600
306	268	13.400	43.963	24.200	24.220	1.354	3.180	5.590	37.800
307	269	13.450	44.127	24.950	24.940	1.203	-1.610	4.824	55.900
308	270	13.500	44.291	51.590	51.611	0.832	3.370	1.612	56.100
309	271	13.550	44.455	42.120	42.125	1.166	0.780	2.768	50.500
310	272	13.600	44.619	50.510	50.532	1.264	3.550	2.501	61.900
311	273	13.650	44.783	56.330	56.364	1.929	5.420	3.422	74.400
312	274	13.700	44.947	68.250	68.280	1.755	4.780	2.570	82.100
313	275	13.750	45.111	58.050	58.079	1.378	4.710	2.373	87.500
314	276	13.800	45.275	57.670	57.698	2.355	4.450	4.082	111.700
315	277	13.850	45.439	197.210	197.248	4.339	6.130	2.200	118.400
316	278	13.900	45.603	111.990	112.044	4.630	8.640	4.132	164.800
317	279	13.950	45.767	36.310	36.373	3.353	10.080	9.218	223.700
318	280	14.000	45.931	31.840	31.962	1.599	19.590	5.003	236.700
319	281	14.050	46.095	44.450	44.626	1.602	28.220	3.590	273.500
320	282	14.100	46.259	51.350	51.379	1.670	4.650	3.250	388.000
321	283	14.150	46.423	65.980	66.051	1.614	11.320	2.444	515.800
322	284	14.200	46.587	42.930	42.989	1.798	9.430	4.182	802.900
323	285	14.250	46.751	45.950	45.991	1.510	6.590	3.283	1080.200
324	286	14.300	46.915	56.390	56.443	2.086	8.480	3.696	1145.000
325	287	14.350	47.079	58.020	58.053	2.449	5.230	4.219	915.400
326	288	14.400	47.244	56.120	56.158	2.125	6.070	3.784	752.900
327	289	14.450	47.408	110.820	110.970	2.560	23.960	2.307	614.400
328	290	14.500	47.572	104.880	104.922	2.815	6.750	2.683	476.400
329	291	14.550	47.736	46.900	46.907	2.273	1.070	4.846	418.500
330	292	14.600	47.900	51.810	51.831	2.043	3.310	3.942	316.400
331	293	14.650	48.064	51.130	51.163	1.540	5.300	3.010	219.800
332	294	14.700	48.228	22.660	22.677	1.301	2.700	5.737	166.300
333	295	14.750	48.392	49.870	49.909	1.023	6.320	2.050	140.600
334	296	14.800	48.556	63.530	63.540	1.359	1.660	2.139	136.400
335	297	14.850	48.720	106.150	106.155	3.227	0.760	3.040	0.000
336	298	14.900	48.884	141.650	141.648	3.026	-0.400	2.136	0.000
337	299	14.950	49.048	97.760	97.778	2.812	2.890	2.876	0.000
338	300	15.000	49.212	119.100	119.147	2.455	7.490	2.060	0.000
339	301	15.050	49.376	119.690	119.725	2.301	5.620	1.922	0.000
340	302	15.100	49.540	90.340	90.369	2.503	4.620	2.770	0.000
341	303	15.150	49.704	70.140	70.176	2.281	5.740	3.250	0.000
342	304	15.200	49.868	62.740	62.813	2.327	11.770	3.705	0.000
343	305	15.250	50.032	43.460	43.460	1.864	0.020	4.289	0.000
344	306	15.300	50.196	33.730	33.834	1.827	16.730	5.400	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	29.610	29.736	1.406	20.240	4.728	0.000
346	308	15.400	50.524	25.800	25.887	2.105	13.960	8.131	0.000
347	309	15.450	50.688	25.350	25.505	1.493	24.860	5.854	0.000
348	310	15.500	50.852	435.120	435.218	3.298	15.700	0.758	0.000
349	311	15.550	51.016	406.320	406.418	0.000	15.770	0.000	0.000
350	312	15.600	51.180	508.890	509.005	0.000	18.360	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272426				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-17A				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-17-2015				
14		CPT Time:			09:44				
15		CPT File:			15-53039_GP1D-17A.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722010.786				
31		Northing / Lat:			4294250.476				
32		Elevation:			143.950				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	3.430	3.434	0.006	0.670	0.175	20.500
40	2	0.100	0.328	6.310	6.304	0.013	-0.990	0.206	21.800
41	3	0.150	0.492	10.780	10.768	0.021	-1.860	0.195	28.700
42	4	0.200	0.656	17.920	17.908	0.040	-1.990	0.223	35.400
43	5	0.250	0.820	28.480	28.465	0.092	-2.330	0.323	48.400
44	6	0.300	0.984	4.860	4.886	0.137	4.180	2.804	57.800
45	7	0.350	1.148	5.590	5.602	0.160	1.950	2.856	65.800
46	8	0.400	1.312	22.260	22.377	0.294	18.820	1.314	64.900
47	9	0.450	1.476	39.860	39.885	0.491	4.060	1.231	47.900
48	10	0.500	1.640	47.370	47.376	0.655	1.020	1.383	49.700
49	11	0.550	1.804	42.160	42.186	0.746	4.170	1.768	45.500
50	12	0.600	1.968	42.450	42.498	0.817	7.660	1.922	66.000
51	13	0.650	2.133	44.270	44.249	0.851	-3.400	1.923	67.900
52	14	0.700	2.297	44.570	44.521	0.878	-7.790	1.972	62.800
53	15	0.750	2.461	53.580	53.518	1.018	-9.980	1.902	53.300
54	16	0.800	2.625	42.280	42.241	0.980	-6.280	2.320	57.000
55	17	0.850	2.789	43.690	43.672	0.913	-2.920	2.091	54.200
56	18	0.900	2.953	22.530	22.592	0.811	9.930	3.590	55.400
57	19	0.950	3.117	33.780	33.878	1.014	15.660	2.993	68.200
58	20	1.000	3.281	56.200	56.289	1.218	14.230	2.164	74.000
59	21	1.050	3.445	85.780	85.823	1.386	6.940	1.615	67.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	109.840	109.846	1.580	0.940	1.438	87.600
61	23	1.150	3.773	109.150	109.127	1.756	-3.690	1.609	89.500
62	24	1.200	3.937	88.880	88.873	1.684	-1.080	1.895	75.800
63	25	1.250	4.101	71.010	71.002	1.696	-1.250	2.389	76.200
64	26	1.300	4.265	61.990	62.038	1.808	7.700	2.914	56.500
65	27	1.350	4.429	73.440	73.491	1.425	8.130	1.939	53.000
66	28	1.400	4.593	96.680	96.661	1.228	-3.070	1.270	45.200
67	29	1.450	4.757	141.090	141.103	0.885	2.050	0.627	40.900
68	30	1.500	4.921	108.890	108.884	0.655	-0.920	0.602	36.400
69	31	1.550	5.085	87.310	87.302	0.483	-1.240	0.553	28.500
70	32	1.600	5.249	71.150	71.151	0.436	0.190	0.613	28.100
71	33	1.650	5.413	64.390	64.402	0.427	1.920	0.663	27.100
72	34	1.700	5.577	37.770	37.767	0.432	-0.430	1.144	23.100
73	35	1.750	5.741	25.970	25.970	0.450	-0.040	1.733	19.900
74	36	1.800	5.905	23.870	23.875	0.400	0.790	1.675	15.400
75	37	1.850	6.069	18.860	18.900	0.431	6.380	2.280	16.900
76	38	1.900	6.234	18.200	18.193	0.383	-1.050	2.105	18.500
77	39	1.950	6.398	11.060	11.086	0.358	4.140	3.229	12.800
78	40	2.000	6.562	7.310	7.331	0.176	3.320	2.401	13.400
79	41	2.050	6.726	5.050	5.053	0.189	0.540	3.740	10.700
80	42	2.100	6.890	5.460	5.473	0.233	2.140	4.257	13.800
81	43	2.150	7.054	13.880	13.914	0.271	5.380	1.948	11.100
82	44	2.200	7.218	15.220	15.275	0.353	8.780	2.311	9.500
83	45	2.250	7.382	17.040	17.034	0.402	-1.020	2.360	8.000
84	46	2.300	7.546	17.250	17.289	0.726	6.300	4.199	15.100
85	47	2.350	7.710	27.900	27.876	0.667	-3.820	2.393	8.700
86	48	2.400	7.874	20.170	20.172	0.652	0.320	3.232	8.700
87	49	2.450	8.038	11.740	11.785	0.608	7.250	5.159	9.700
88	50	2.500	8.202	8.760	8.758	0.404	-0.260	4.613	11.700
89	51	2.550	8.366	11.460	11.466	0.393	0.890	3.428	10.700
90	52	2.600	8.530	7.600	7.617	0.340	2.800	4.463	14.800
91	53	2.650	8.694	4.700	4.698	0.271	-0.290	5.768	19.600
92	54	2.700	8.858	2.280	2.282	0.058	0.310	2.542	17.500
93	55	2.750	9.022	1.440	1.443	0.045	0.530	3.118	15.300
94	56	2.800	9.186	1.550	1.555	0.055	0.860	3.536	24.100
95	57	2.850	9.350	4.390	4.438	0.172	7.650	3.876	34.700
96	58	2.900	9.514	6.740	6.779	0.201	6.220	2.965	38.500
97	59	2.950	9.678	3.460	3.478	0.201	2.880	5.779	43.900
98	60	3.000	9.842	4.470	4.493	0.246	3.620	5.476	58.000
99	61	3.050	10.006	7.040	7.041	0.241	0.210	3.423	53.600
100	62	3.100	10.170	5.620	5.679	0.312	9.390	5.494	57.800
101	63	3.150	10.335	6.200	6.202	0.198	0.290	3.193	45.000
102	64	3.200	10.499	12.040	12.032	0.210	-1.240	1.745	41.100
103	65	3.250	10.663	27.280	27.285	0.165	0.860	0.605	37.500
104	66	3.300	10.827	34.890	34.854	0.545	-5.750	1.564	37.700
105	67	3.350	10.991	41.000	41.290	0.529	46.470	1.281	24.000
106	68	3.400	11.155	9.870	9.878	0.486	1.250	4.920	34.300
107	69	3.450	11.319	7.500	7.488	0.331	-1.990	4.421	31.200
108	70	3.500	11.483	8.960	8.977	0.293	2.730	3.264	29.000
109	71	3.550	11.647	14.640	14.638	0.321	-0.330	2.193	36.000
110	72	3.600	11.811	12.720	12.734	0.309	2.240	2.427	43.900
111	73	3.650	11.975	9.710	9.699	0.258	-1.840	2.660	54.600
112	74	3.700	12.139	9.290	9.289	0.184	-0.230	1.981	49.000
113	75	3.750	12.303	5.650	5.657	0.177	1.070	3.129	40.300
114	76	3.800	12.467	7.840	7.847	0.264	1.150	3.364	27.100
115	77	3.850	12.631	15.770	15.782	0.217	1.990	1.375	26.000
116	78	3.900	12.795	5.960	6.003	0.187	6.960	3.115	15.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	10.980	10.981	0.229	0.130	2.085	19.800
118	80	4.000	13.123	42.850	42.856	0.541	1.000	1.262	22.400
119	81	4.050	13.287	41.960	42.073	0.795	18.180	1.890	12.200
120	82	4.100	13.451	18.480	18.536	0.882	9.010	4.758	12.300
121	83	4.150	13.615	12.480	12.503	1.856	3.690	14.844	15.600
122	84	4.200	13.779	159.100	159.101	2.268	0.150	1.426	13.500
123	85	4.250	13.943	135.950	135.985	3.632	5.550	2.671	11.900
124	86	4.300	14.107	60.060	60.061	3.039	0.190	5.060	12.600
125	87	4.350	14.271	18.120	18.123	1.336	0.490	7.372	17.800
126	88	4.400	14.436	7.540	7.712	0.375	27.620	4.862	16.000
127	89	4.450	14.600	6.290	6.296	0.295	0.960	4.686	22.300
128	90	4.500	14.764	4.680	4.685	0.161	0.840	3.436	25.900
129	91	4.550	14.928	7.860	7.874	0.219	2.250	2.781	24.500
130	92	4.600	15.092	8.920	8.920	0.310	0.060	3.475	33.700
131	93	4.650	15.256	16.870	16.896	0.395	4.190	2.338	45.200
132	94	4.700	15.420	34.000	33.978	0.456	-3.530	1.342	63.600
133	95	4.750	15.584	43.640	43.618	0.467	-3.590	1.071	79.700
134	96	4.800	15.748	39.470	39.432	0.462	-6.060	1.172	77.100
135	97	4.850	15.912	28.070	28.039	0.453	-4.990	1.616	74.900
136	98	4.900	16.076	28.980	28.971	0.482	-1.510	1.664	61.900
137	99	4.950	16.240	25.060	25.087	0.517	4.360	2.061	53.800
138	100	5.000	16.404	14.030	14.027	0.428	-0.540	3.051	49.200
139	101	5.050	16.568	7.360	7.344	0.555	-2.600	7.557	51.700
140	102	5.100	16.732	6.460	6.445	0.422	-2.360	6.547	54.900
141	103	5.150	16.896	57.880	57.897	1.103	2.690	1.905	77.100
142	104	5.200	17.060	56.830	56.830	1.695	0.030	2.983	63.500
143	105	5.250	17.224	73.730	73.747	0.713	2.710	0.967	73.400
144	106	5.300	17.388	95.420	95.422	0.477	0.330	0.500	83.900
145	107	5.350	17.552	36.720	36.712	0.513	-1.290	1.397	87.500
146	108	5.400	17.716	55.260	55.282	0.994	3.450	1.798	91.600
147	109	5.450	17.880	50.640	50.660	1.055	3.210	2.083	74.600
148	110	5.500	18.044	55.800	55.779	0.892	-3.380	1.599	77.700
149	111	5.550	18.208	46.540	46.509	0.896	-4.970	1.927	57.100
150	112	5.600	18.372	27.510	27.471	0.811	-6.250	2.952	54.500
151	113	5.650	18.537	33.410	33.368	0.717	-6.770	2.149	45.900
152	114	5.700	18.701	26.550	26.738	0.555	30.070	2.076	37.000
153	115	5.750	18.865	17.110	17.187	0.825	12.270	4.800	33.200
154	116	5.800	19.029	43.190	43.182	0.745	-1.250	1.725	30.700
155	117	5.850	19.193	59.140	59.186	1.113	7.300	1.881	33.700
156	118	5.900	19.357	85.790	85.881	1.683	14.500	1.960	26.300
157	119	5.950	19.521	78.740	78.852	2.369	17.990	3.004	16.400
158	120	6.000	19.685	65.690	65.773	2.311	13.300	3.514	21.100
159	121	6.050	19.849	61.990	62.030	2.020	6.460	3.256	12.800
160	122	6.100	20.013	76.990	77.029	2.069	6.170	2.686	13.800
161	123	6.150	20.177	52.870	52.853	2.184	-2.720	4.132	14.100
162	124	6.200	20.341	43.600	43.596	1.845	-0.690	4.232	8.500
163	125	6.250	20.505	28.360	28.362	1.562	0.390	5.507	9.900
164	126	6.300	20.669	29.960	30.001	1.679	6.550	5.597	12.000
165	127	6.350	20.833	39.080	39.491	1.448	65.820	3.667	18.300
166	128	6.400	20.997	25.370	25.396	1.045	4.210	4.115	31.700
167	129	6.450	21.161	51.290	51.418	1.191	20.520	2.316	29.400
168	130	6.500	21.325	251.400	251.473	1.474	11.650	0.586	45.300
169	131	6.550	21.489	203.010	203.040	1.650	4.780	0.813	38.500
170	132	6.600	21.653	151.840	151.823	1.776	-2.670	1.170	53.100
171	133	6.650	21.817	83.720	83.753	1.359	5.290	1.623	68.200
172	134	6.700	21.981	42.090	42.097	0.918	1.110	2.181	73.300
173	135	6.750	22.145	22.480	22.475	0.522	-0.810	2.323	69.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	13.050	13.051	0.429	0.150	3.287	51.300
175	137	6.850	22.473	11.140	11.145	0.333	0.860	2.988	44.200
176	138	6.900	22.638	23.550	23.553	0.623	0.500	2.645	34.900
177	139	6.950	22.802	23.470	23.497	0.500	4.290	2.128	25.500
178	140	7.000	22.966	20.150	20.153	0.612	0.500	3.037	15.800
179	141	7.050	23.130	35.020	35.020	0.669	0.030	1.910	13.300
180	142	7.100	23.294	29.790	29.844	0.897	8.570	3.006	13.800
181	143	7.150	23.458	27.120	27.212	1.188	14.810	4.366	11.500
182	144	7.200	23.622	26.970	27.056	1.072	13.710	3.962	10.300
183	145	7.250	23.786	29.050	29.464	1.001	66.340	3.397	10.900
184	146	7.300	23.950	26.380	26.491	0.773	17.710	2.918	11.300
185	147	7.350	24.114	28.830	28.809	0.574	-3.360	1.992	10.100
186	148	7.400	24.278	31.820	31.826	0.543	1.020	1.706	10.000
187	149	7.450	24.442	43.460	43.462	0.902	0.350	2.075	10.300
188	150	7.500	24.606	35.280	35.317	1.155	5.890	3.270	10.300
189	151	7.550	24.770	68.950	68.956	1.058	0.920	1.534	10.000
190	152	7.600	24.934	28.160	28.171	1.308	1.740	4.643	13.900
191	153	7.650	25.098	33.390	33.451	0.382	9.730	1.142	13.700
192	154	7.700	25.262	22.390	22.391	0.601	0.220	2.684	13.400
193	155	7.750	25.426	57.580	57.583	0.562	0.490	0.976	17.200
194	156	7.800	25.590	43.800	43.792	0.696	-1.250	1.589	17.300
195	157	7.850	25.754	42.190	42.190	1.246	0.050	2.953	21.400
196	158	7.900	25.918	85.240	85.239	2.071	-0.220	2.430	28.300
197	159	7.950	26.082	290.940	290.950	2.418	1.640	0.831	34.700
198	160	8.000	26.246	211.200	211.224	2.359	3.900	1.117	41.800
199	161	8.050	26.410	194.380	194.493	2.208	18.030	1.135	51.400
200	162	8.100	26.574	178.050	178.079	7.122	4.590	3.999	50.900
201	163	8.150	26.739	223.050	223.101	1.896	8.100	0.850	55.100
202	164	8.200	26.903	308.680	308.691	3.061	1.720	0.992	59.600
203	165	8.250	27.067	191.650	191.666	3.641	2.580	1.900	67.200
204	166	8.300	27.231	103.440	103.449	1.553	1.410	1.501	76.000
205	167	8.350	27.395	72.950	72.982	1.140	5.080	1.562	74.700
206	168	8.400	27.559	74.680	74.662	1.077	-2.830	1.442	69.900
207	169	8.450	27.723	95.980	95.988	1.382	1.360	1.440	80.800
208	170	8.500	27.887	123.470	123.472	5.356	0.370	4.338	65.900
209	171	8.550	28.051	478.000	478.009	4.886	1.460	1.022	67.900
210	172	8.600	28.215	250.360	250.362	4.297	0.290	1.716	46.200
211	173	8.650	28.379	36.580	36.578	3.122	-0.280	8.535	42.200
212	174	8.700	28.543	50.140	50.143	1.115	0.530	2.224	47.400
213	175	8.750	28.707	51.710	51.712	1.864	0.390	3.605	38.800
214	176	8.800	28.871	140.380	140.386	1.416	0.940	1.009	39.000
215	177	8.850	29.035	272.560	272.563	2.962	0.510	1.087	31.600
216	178	8.900	29.199	389.070	389.081	3.061	1.730	0.787	30.100
217	179	8.950	29.363	113.890	113.937	3.095	7.510	2.716	24.700
218	180	9.000	29.527	36.400	36.424	1.913	3.880	5.252	26.100
219	181	9.050	29.691	34.030	34.061	1.249	4.890	3.667	25.600
220	182	9.100	29.855	42.070	42.072	1.126	0.310	2.676	29.100
221	183	9.150	30.019	59.850	59.862	1.351	1.850	2.257	24.000
222	184	9.200	30.183	43.420	43.421	1.282	0.160	2.952	25.900
223	185	9.250	30.347	23.350	23.331	1.223	-3.040	5.242	17.300
224	186	9.300	30.511	14.240	14.284	0.838	7.040	5.867	15.800
225	187	9.350	30.675	36.950	36.963	0.730	2.090	1.975	19.400
226	188	9.400	30.840	51.380	51.387	0.824	1.150	1.604	20.100
227	189	9.450	31.004	47.590	47.573	1.054	-2.760	2.216	20.400
228	190	9.500	31.168	31.100	31.087	0.949	-2.100	3.053	19.100
229	191	9.550	31.332	9.800	9.793	0.542	-1.060	5.534	20.700
230	192	9.600	31.496	8.570	8.576	0.250	0.890	2.915	23.900

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	8.890	8.912	0.374	3.490	4.197	35.900
232	194	9.700	31.824	31.070	31.077	0.371	1.070	1.194	34.600
233	195	9.750	31.988	16.570	16.546	0.439	-3.780	2.653	50.500
234	196	9.800	32.152	11.890	11.889	0.353	-0.120	2.969	63.200
235	197	9.850	32.316	4.610	4.602	0.122	-1.320	2.651	55.300
236	198	9.900	32.480	4.280	4.322	0.218	6.650	5.045	66.100
237	199	9.950	32.644	8.800	8.840	0.429	6.370	4.853	64.100
238	200	10.000	32.808	17.700	17.770	0.837	11.150	4.710	56.000
239	201	10.050	32.972	28.500	28.445	0.659	-8.890	2.317	54.800
240	202	10.100	33.136	15.670	15.643	0.858	-4.340	5.485	36.000
241	203	10.150	33.300	20.130	20.157	0.721	4.310	3.577	25.200
242	204	10.200	33.464	21.680	21.727	0.796	7.470	3.664	23.000
243	205	10.250	33.628	10.500	10.539	0.524	6.200	4.972	16.800
244	206	10.300	33.792	35.580	35.581	0.597	0.110	1.678	20.900
245	207	10.350	33.956	39.750	39.776	0.596	4.130	1.498	23.500
246	208	10.400	34.120	37.990	38.008	1.034	2.920	2.720	19.700
247	209	10.450	34.284	48.770	48.812	1.523	6.780	3.120	24.900
248	210	10.500	34.448	45.040	45.073	1.423	5.210	3.157	32.100
249	211	10.550	34.612	16.460	16.491	1.171	4.910	7.101	30.900
250	212	10.600	34.776	31.710	31.820	1.092	17.670	3.432	32.600
251	213	10.650	34.941	23.790	23.945	1.274	24.820	5.321	37.500
252	214	10.700	35.105	25.750	25.970	1.170	35.260	4.505	43.500
253	215	10.750	35.269	31.900	32.110	0.822	33.590	2.560	45.100
254	216	10.800	35.433	80.890	80.998	0.823	17.330	1.016	54.300
255	217	10.850	35.597	154.740	154.848	1.032	17.240	0.666	51.700
256	218	10.900	35.761	192.190	192.285	1.523	15.240	0.792	59.200
257	219	10.950	35.925	253.510	253.618	2.118	17.300	0.835	64.000
258	220	11.000	36.089	288.460	288.568	2.412	17.250	0.836	59.100
259	221	11.050	36.253	307.280	307.370	2.135	14.390	0.695	62.300
260	222	11.100	36.417	288.110	288.246	1.900	21.730	0.659	58.600
261	223	11.150	36.581	276.220	276.286	1.959	10.520	0.709	62.100
262	224	11.200	36.745	277.030	277.112	2.296	13.180	0.829	76.400
263	225	11.250	36.909	281.620	281.775	2.645	24.800	0.939	63.800
264	226	11.300	37.073	281.620	281.908	2.892	46.160	1.026	70.300
265	227	11.350	37.237	284.190	284.459	2.823	43.030	0.992	71.600
266	228	11.400	37.401	284.230	284.456	2.661	36.160	0.935	76.100
267	229	11.450	37.565	262.000	262.241	2.874	38.610	1.096	80.100
268	230	11.500	37.729	238.130	238.316	2.900	29.860	1.217	77.600
269	231	11.550	37.893	231.710	231.864	2.889	24.710	1.246	0.000
270	232	11.600	38.057	278.120	278.322	2.900	32.310	1.042	0.000
271	233	11.650	38.221	336.800	337.056	2.993	41.080	0.888	0.000
272	234	11.700	38.385	349.620	349.631	2.907	1.740	0.831	0.000
273	235	11.750	38.549	365.070	365.079	4.039	1.370	1.106	0.000
274	236	11.800	38.713	360.870	360.878	4.282	1.300	1.187	0.000
275	237	11.850	38.877	341.240	341.249	4.075	1.380	1.194	0.000
276	238	11.900	39.042	309.250	309.254	3.794	0.700	1.227	0.000
277	239	11.950	39.206	260.490	260.496	3.335	0.900	1.280	0.000
278	240	12.000	39.370	206.210	206.214	2.718	0.680	1.318	0.000
279	241	12.050	39.534	198.000	198.012	2.183	1.870	1.102	0.000
280	242	12.100	39.698	253.370	253.385	2.577	2.350	1.017	0.000
281	243	12.150	39.862	323.350	323.370	1.302	3.150	0.403	0.000
282	244	12.200	40.026	386.940	386.966	0.000	4.180	0.000	0.000
283	245	12.250	40.190	398.520	398.524	0.000	0.600	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272424				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-17				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-17-2015				
14		CPT Time:			08:06				
15		CPT File:			15-53039_GP1D-17.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722009.131				
31		Northing / Lat:			4294251.168				
32		Elevation:			143.930				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	3.650	3.651	0.014	0.140	0.383	22.800
40	2	0.100	0.328	11.390	11.391	0.016	0.220	0.140	27.500
41	3	0.150	0.492	7.800	7.787	0.030	-2.030	0.385	35.300
42	4	0.200	0.656	13.220	13.219	0.082	-0.240	0.620	38.100
43	5	0.250	0.820	18.190	18.212	0.050	3.560	0.275	36.400
44	6	0.300	0.984	32.980	32.967	0.084	-2.010	0.255	53.800
45	7	0.350	1.148	3.790	3.805	0.128	2.420	3.364	61.400
46	8	0.400	1.312	6.940	6.958	0.220	2.910	3.162	66.200
47	9	0.450	1.476	20.990	20.987	0.274	-0.490	1.306	65.400
48	10	0.500	1.640	29.340	29.423	0.556	13.370	1.890	61.400
49	11	0.550	1.804	53.220	53.259	0.803	6.210	1.508	62.700
50	12	0.600	1.968	65.060	65.077	1.047	2.760	1.609	61.100
51	13	0.650	2.133	59.730	59.773	0.973	6.920	1.628	64.200
52	14	0.700	2.297	63.320	63.311	0.810	-1.490	1.279	60.200
53	15	0.750	2.461	46.570	46.506	0.739	-10.190	1.589	59.400
54	16	0.800	2.625	36.220	36.139	0.789	-12.990	2.183	60.700
55	17	0.850	2.789	31.080	31.003	0.905	-12.320	2.919	58.700
56	18	0.900	2.953	36.860	36.793	1.002	-10.730	2.723	48.500
57	19	0.950	3.117	32.800	32.763	0.912	-5.920	2.784	55.400
58	20	1.000	3.281	26.930	26.934	0.857	0.600	3.182	58.700
59	21	1.050	3.445	36.620	36.628	0.928	1.300	2.534	68.800

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	56.060	56.023	2.030	-5.910	3.624	65.100
61	23	1.150	3.773	84.570	84.530	1.452	-6.370	1.718	79.200
62	24	1.200	3.937	211.520	211.495	1.130	-3.930	0.534	81.600
63	25	1.250	4.101	338.790	338.704	1.822	-13.700	0.538	82.300
64	26	1.300	4.265	202.560	202.489	2.926	-11.390	1.445	72.600
65	27	1.350	4.429	129.900	129.806	3.271	-15.080	2.520	61.500
66	28	1.400	4.593	131.660	131.662	3.634	0.400	2.760	52.600
67	29	1.450	4.757	141.790	141.795	2.299	0.730	1.621	39.600
68	30	1.500	4.921	139.150	139.201	1.312	8.140	0.943	34.300
69	31	1.550	5.085	158.810	158.835	0.747	4.040	0.470	37.600
70	32	1.600	5.249	160.530	160.593	0.540	10.170	0.336	34.400
71	33	1.650	5.413	137.390	137.406	0.487	2.640	0.354	32.800
72	34	1.700	5.577	110.890	110.892	0.344	0.350	0.310	28.400
73	35	1.750	5.741	83.800	83.797	0.273	-0.470	0.326	27.000
74	36	1.800	5.905	57.180	57.180	0.205	-0.040	0.359	26.100
75	37	1.850	6.069	39.660	39.657	0.155	-0.420	0.391	20.400
76	38	1.900	6.234	30.660	30.660	0.175	-0.040	0.571	23.500
77	39	1.950	6.398	27.710	27.710	0.325	0.050	1.173	29.400
78	40	2.000	6.562	19.300	19.338	0.298	6.160	1.541	28.000
79	41	2.050	6.726	10.120	10.116	0.237	-0.640	2.343	19.300
80	42	2.100	6.890	11.410	11.410	0.086	-0.010	0.754	21.500
81	43	2.150	7.054	17.070	17.096	0.236	4.230	1.380	17.000
82	44	2.200	7.218	12.150	12.150	0.259	0.010	2.132	15.000
83	45	2.250	7.382	80.800	80.826	0.137	4.130	0.170	11.800
84	46	2.300	7.546	149.590	149.604	1.030	2.170	0.688	11.200
85	47	2.350	7.710	134.470	134.494	1.226	3.800	0.912	16.700
86	48	2.400	7.874	15.530	15.531	1.055	0.130	6.793	20.000
87	49	2.450	8.038	17.190	17.197	0.271	1.090	1.576	12.100
88	50	2.500	8.202	14.200	14.212	0.271	2.000	1.907	9.600
89	51	2.550	8.366	13.870	13.872	0.252	0.280	1.817	10.000
90	52	2.600	8.530	13.860	13.856	0.329	-0.640	2.374	13.500
91	53	2.650	8.694	13.040	13.109	0.238	11.120	1.815	12.800
92	54	2.700	8.858	19.780	19.825	0.234	7.250	1.180	10.600
93	55	2.750	9.022	27.800	27.804	0.160	0.700	0.575	12.900
94	56	2.800	9.186	30.070	30.072	0.042	0.300	0.140	12.900
95	57	2.850	9.350	33.810	33.812	0.042	0.300	0.124	11.900
96	58	2.900	9.514	34.640	34.643	0.054	0.500	0.156	9.500
97	59	2.950	9.678	33.660	33.663	0.075	0.530	0.223	11.900
98	60	3.000	9.842	28.910	28.906	0.173	-0.670	0.598	18.000
99	61	3.050	10.006	35.220	35.222	0.183	0.300	0.520	13.600
100	62	3.100	10.170	81.190	81.187	0.228	-0.530	0.281	17.100
101	63	3.150	10.335	79.150	79.145	0.133	-0.840	0.168	19.000
102	64	3.200	10.499	32.150	32.143	0.168	-1.200	0.523	26.900
103	65	3.250	10.663	12.310	12.309	0.152	-0.120	1.235	30.100
104	66	3.300	10.827	5.370	5.367	0.036	-0.550	0.671	27.400
105	67	3.350	10.991	25.010	25.010	0.014	0.040	0.056	40.500
106	68	3.400	11.155	29.890	29.890	0.014	-0.040	0.047	51.700
107	69	3.450	11.319	15.430	15.429	0.013	-0.120	0.084	45.400
108	70	3.500	11.483	26.470	26.469	0.050	-0.100	0.189	27.900
109	71	3.550	11.647	30.500	30.503	0.061	0.470	0.200	36.500
110	72	3.600	11.811	34.990	34.973	0.193	-2.800	0.552	27.400
111	73	3.650	11.975	52.820	52.822	0.670	0.290	1.268	26.300
112	74	3.700	12.139	92.510	92.527	0.506	2.650	0.547	29.600
113	75	3.750	12.303	82.790	82.933	0.514	22.860	0.620	36.800
114	76	3.800	12.467	36.970	36.937	0.404	-5.240	1.094	49.900
115	77	3.850	12.631	21.570	21.566	0.380	-0.600	1.762	66.100
116	78	3.900	12.795	20.810	20.818	0.338	1.310	1.624	70.500

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	27.830	27.829	0.341	-0.090	1.225	69.400
118	80	4.000	13.123	16.050	16.047	0.320	-0.490	1.994	56.400
119	81	4.050	13.287	10.680	10.683	0.354	0.520	3.314	41.500
120	82	4.100	13.451	27.980	27.956	0.348	-3.840	1.245	26.100
121	83	4.150	13.615	55.090	55.091	0.375	0.130	0.681	22.500
122	84	4.200	13.779	64.690	64.723	0.426	5.320	0.658	18.400
123	85	4.250	13.943	24.500	24.501	0.549	0.120	2.241	12.900
124	86	4.300	14.107	63.470	63.471	0.913	0.150	1.438	9.800
125	87	4.350	14.271	73.480	73.481	0.941	0.210	1.281	9.200
126	88	4.400	14.436	39.080	39.079	1.228	-0.220	3.142	13.100
127	89	4.450	14.600	24.920	24.984	0.886	10.270	3.546	15.900
128	90	4.500	14.764	25.940	25.942	0.777	0.250	2.995	20.600
129	91	4.550	14.928	25.060	25.054	0.725	-1.010	2.894	13.600
130	92	4.600	15.092	31.540	31.540	0.680	0.080	2.156	26.400
131	93	4.650	15.256	7.750	7.749	0.569	-0.120	7.343	31.300
132	94	4.700	15.420	4.200	4.204	0.196	0.720	4.662	39.500
133	95	4.750	15.584	14.600	14.597	0.232	-0.450	1.589	48.300
134	96	4.800	15.748	40.880	40.880	0.326	0.040	0.797	54.800
135	97	4.850	15.912	37.400	37.406	0.393	0.970	1.051	65.800
136	98	4.900	16.076	30.160	30.192	0.443	5.070	1.467	45.800
137	99	4.950	16.240	51.760	51.761	0.496	0.230	0.958	48.500
138	100	5.000	16.404	26.080	26.095	0.483	2.420	1.851	39.200
139	101	5.050	16.568	19.340	19.361	0.500	3.320	2.583	45.000
140	102	5.100	16.732	31.920	31.935	0.405	2.460	1.268	47.800
141	103	5.150	16.896	33.320	33.308	0.643	-1.890	1.930	50.400
142	104	5.200	17.060	24.080	24.073	0.591	-1.060	2.455	51.800
143	105	5.250	17.224	19.280	19.284	0.628	0.710	3.257	51.700
144	106	5.300	17.388	105.090	105.088	1.030	-0.280	0.980	50.300
145	107	5.350	17.552	46.380	46.471	1.182	14.640	2.544	58.300
146	108	5.400	17.716	18.290	18.306	0.905	2.620	4.944	56.700
147	109	5.450	17.880	21.990	22.110	0.434	19.260	1.963	57.100
148	110	5.500	18.044	24.780	24.814	0.273	5.380	1.100	65.800
149	111	5.550	18.208	31.450	31.438	0.475	-1.870	1.511	59.600
150	112	5.600	18.372	50.090	50.172	0.794	13.110	1.583	39.900
151	113	5.650	18.537	38.880	38.914	0.836	5.440	2.148	39.500
152	114	5.700	18.701	44.570	44.600	0.985	4.810	2.209	28.800
153	115	5.750	18.865	45.430	45.439	0.640	1.430	1.408	29.300
154	116	5.800	19.029	23.650	23.677	0.677	4.250	2.859	24.200
155	117	5.850	19.193	22.350	22.410	0.480	9.580	2.142	23.000
156	118	5.900	19.357	22.600	22.670	0.474	11.250	2.091	14.900
157	119	5.950	19.521	41.030	41.025	0.583	-0.800	1.421	15.300
158	120	6.000	19.685	36.480	36.483	0.637	0.490	1.746	12.400
159	121	6.050	19.849	31.410	31.417	1.003	1.060	3.193	16.700
160	122	6.100	20.013	35.560	35.561	1.121	0.170	3.152	13.600
161	123	6.150	20.177	46.110	46.108	1.232	-0.340	2.672	16.000
162	124	6.200	20.341	82.940	82.951	1.330	1.710	1.603	15.000
163	125	6.250	20.505	45.840	45.842	1.361	0.280	2.969	11.900
164	126	6.300	20.669	30.320	30.322	1.296	0.360	4.274	10.000
165	127	6.350	20.833	16.880	16.880	1.344	-0.060	7.962	17.400
166	128	6.400	20.997	23.380	23.383	0.841	0.510	3.597	27.800
167	129	6.450	21.161	105.560	105.573	0.845	2.030	0.800	31.600
168	130	6.500	21.325	288.130	288.115	2.498	-2.360	0.867	28.800
169	131	6.550	21.489	296.200	296.196	4.038	-0.710	1.363	33.500
170	132	6.600	21.653	316.630	316.639	3.803	1.430	1.201	30.600
171	133	6.650	21.817	280.270	280.244	4.358	-4.130	1.555	43.600
172	134	6.700	21.981	146.780	146.752	4.011	-4.440	2.733	49.100
173	135	6.750	22.145	113.150	113.134	3.826	-2.550	3.382	55.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	91.790	91.810	1.854	3.200	2.019	56.100
175	137	6.850	22.473	53.460	53.438	1.804	-3.450	3.376	57.500
176	138	6.900	22.638	43.250	43.261	1.237	1.770	2.859	32.500
177	139	6.950	22.802	22.720	22.695	1.182	-3.960	5.208	33.900
178	140	7.000	22.966	46.370	46.391	1.402	3.330	3.022	21.200
179	141	7.050	23.130	44.940	44.944	1.600	0.700	3.560	18.500
180	142	7.100	23.294	99.320	99.386	1.563	10.520	1.573	11.500
181	143	7.150	23.458	55.690	55.738	1.688	7.690	3.028	18.300
182	144	7.200	23.622	26.610	26.644	1.174	5.420	4.406	13.300
183	145	7.250	23.786	45.570	45.587	1.250	2.750	2.742	0.000
184	146	7.300	23.950	35.480	35.487	1.152	1.070	3.246	0.000
185	147	7.350	24.114	25.630	25.637	1.097	1.150	4.279	0.000
186	148	7.400	24.278	10.150	10.144	0.495	-1.020	4.880	0.000
187	149	7.450	24.442	11.810	11.811	0.429	0.140	3.632	0.000
188	150	7.500	24.606	15.490	15.489	0.713	-0.170	4.603	0.000
189	151	7.550	24.770	14.520	14.516	0.812	-0.670	5.594	0.000
190	152	7.600	24.934	29.430	29.445	0.512	2.440	1.739	0.000
191	153	7.650	25.098	45.610	45.624	0.785	2.320	1.721	0.000
192	154	7.700	25.262	69.700	69.711	0.922	1.730	1.323	0.000
193	155	7.750	25.426	38.350	38.350	1.163	0.030	3.033	0.000
194	156	7.800	25.590	23.770	23.823	1.105	8.540	4.638	0.000
195	157	7.850	25.754	16.500	16.499	1.353	-0.150	8.200	0.000
196	158	7.900	25.918	51.930	51.952	1.674	3.520	3.222	0.000
197	159	7.950	26.082	452.790	452.814	0.000	3.790	0.000	0.000
198	160	8.000	26.246	645.080	645.105	0.000	4.050	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272429				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-18A				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-20-2015				
14		CPT Time:			09:13				
15		CPT File:			15-53039_GP1D-18A.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722081.733				
31		Northing / Lat:			4294153.269				
32		Elevation:			146.370				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	7.300	7.301	0.083	0.210	1.137	21.800
40	2	0.100	0.328	43.230	43.258	0.050	4.440	0.116	25.500
41	3	0.150	0.492	49.900	49.965	0.022	10.490	0.044	28.000
42	4	0.200	0.656	50.000	50.012	0.160	1.970	0.320	21.200
43	5	0.250	0.820	37.320	37.311	0.302	-1.370	0.809	24.900
44	6	0.300	0.984	38.260	38.259	0.186	-0.220	0.486	22.400
45	7	0.350	1.148	39.920	39.927	0.111	1.090	0.278	19.000
46	8	0.400	1.312	36.090	36.097	0.120	1.090	0.332	23.200
47	9	0.450	1.476	31.370	31.372	0.163	0.350	0.520	23.200
48	10	0.500	1.640	30.190	30.181	0.132	-1.390	0.437	22.200
49	11	0.550	1.804	32.560	32.606	0.069	7.420	0.212	20.600
50	12	0.600	1.968	19.320	19.358	0.102	6.070	0.527	22.700
51	13	0.650	2.133	21.930	22.007	0.070	12.270	0.318	31.200
52	14	0.700	2.297	22.910	22.923	0.239	2.160	1.043	30.500
53	15	0.750	2.461	32.530	32.524	0.117	-0.990	0.360	40.600
54	16	0.800	2.625	57.080	57.082	0.251	0.310	0.440	47.500
55	17	0.850	2.789	82.570	82.572	0.162	0.320	0.196	62.800
56	18	0.900	2.953	60.250	60.362	0.255	17.890	0.422	63.900
57	19	0.950	3.117	60.340	60.341	0.629	0.220	1.042	81.800
58	20	1.000	3.281	56.620	56.658	0.874	6.150	1.543	90.500
59	21	1.050	3.445	47.210	47.280	1.040	11.230	2.200	94.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	44.130	44.232	0.949	16.300	2.146	100.500
61	23	1.150	3.773	42.330	42.334	0.810	0.610	1.913	69.500
62	24	1.200	3.937	31.390	31.362	0.801	-4.510	2.554	95.400
63	25	1.250	4.101	24.460	24.431	0.714	-4.620	2.922	94.600
64	26	1.300	4.265	20.110	20.073	0.611	-5.990	3.044	89.600
65	27	1.350	4.429	16.730	16.687	0.444	-6.890	2.661	93.300
66	28	1.400	4.593	13.600	13.569	0.309	-5.030	2.277	99.300
67	29	1.450	4.757	10.540	10.539	0.232	-0.240	2.201	90.900
68	30	1.500	4.921	10.910	10.910	0.195	-0.060	1.787	90.900
69	31	1.550	5.085	11.090	11.092	0.218	0.300	1.965	80.300
70	32	1.600	5.249	11.190	11.197	0.237	1.200	2.117	91.200
71	33	1.650	5.413	11.470	11.462	0.280	-1.230	2.443	95.800
72	34	1.700	5.577	17.440	17.445	0.318	0.830	1.823	87.400
73	35	1.750	5.741	23.140	23.139	0.318	-0.220	1.374	88.200
74	36	1.800	5.905	18.170	18.166	0.321	-0.670	1.767	84.900
75	37	1.850	6.069	16.380	16.366	0.330	-2.280	2.016	79.900
76	38	1.900	6.234	17.660	17.655	0.359	-0.750	2.033	72.000
77	39	1.950	6.398	22.750	22.763	0.449	2.120	1.972	55.600
78	40	2.000	6.562	23.110	23.122	0.597	1.860	2.582	56.000
79	41	2.050	6.726	19.520	19.515	0.414	-0.820	2.121	70.200
80	42	2.100	6.890	16.420	16.483	0.459	10.130	2.785	71.300
81	43	2.150	7.054	19.880	19.901	0.403	3.290	2.025	90.300
82	44	2.200	7.218	19.110	19.127	0.445	2.690	2.327	98.500
83	45	2.250	7.382	18.020	18.009	0.417	-1.770	2.316	82.500
84	46	2.300	7.546	16.210	16.185	0.439	-3.970	2.712	85.900
85	47	2.350	7.710	17.090	17.058	0.348	-5.080	2.040	88.500
86	48	2.400	7.874	20.130	20.095	0.279	-5.620	1.388	72.700
87	49	2.450	8.038	54.690	54.682	0.827	-1.300	1.512	62.600
88	50	2.500	8.202	149.740	149.722	1.642	-2.880	1.097	55.100
89	51	2.550	8.366	177.080	177.150	2.062	11.230	1.164	55.300
90	52	2.600	8.530	56.990	58.017	1.817	164.490	3.132	65.000
91	53	2.650	8.694	18.420	18.477	0.822	9.190	4.449	68.300
92	54	2.700	8.858	21.490	21.533	0.361	6.960	1.676	86.100
93	55	2.750	9.022	8.400	8.511	0.265	17.790	3.114	86.800
94	56	2.800	9.186	8.380	8.511	0.198	20.960	2.326	90.800
95	57	2.850	9.350	7.210	7.346	0.223	21.800	3.036	100.900
96	58	2.900	9.514	7.820	7.925	0.204	16.780	2.574	104.500
97	59	2.950	9.678	7.710	7.836	0.232	20.160	2.961	113.800
98	60	3.000	9.842	8.280	8.385	0.289	16.740	3.447	93.100
99	61	3.050	10.006	8.760	8.833	0.316	11.710	3.577	108.500
100	62	3.100	10.170	8.510	8.580	0.348	11.280	4.056	110.800
101	63	3.150	10.335	8.470	8.574	0.361	16.700	4.210	103.900
102	64	3.200	10.499	18.630	18.697	0.463	10.710	2.476	107.600
103	65	3.250	10.663	14.120	14.119	0.599	-0.190	4.243	84.100
104	66	3.300	10.827	10.340	10.308	0.667	-5.070	6.470	98.800
105	67	3.350	10.991	9.020	8.985	0.421	-5.660	4.686	93.600
106	68	3.400	11.155	9.660	9.625	0.312	-5.540	3.241	95.000
107	69	3.450	11.319	10.250	10.227	0.338	-3.610	3.305	96.700
108	70	3.500	11.483	8.120	8.096	0.330	-3.890	4.076	93.200
109	71	3.550	11.647	9.430	9.408	0.306	-3.590	3.253	91.900
110	72	3.600	11.811	6.830	6.802	0.286	-4.510	4.205	87.500
111	73	3.650	11.975	8.560	8.536	0.396	-3.880	4.639	77.100
112	74	3.700	12.139	26.090	26.089	0.411	-0.100	1.575	54.200
113	75	3.750	12.303	24.080	24.066	0.572	-2.220	2.377	44.000
114	76	3.800	12.467	25.820	25.815	0.596	-0.760	2.309	38.700
115	77	3.850	12.631	41.410	41.430	0.684	3.170	1.651	44.500
116	78	3.900	12.795	40.020	40.032	0.750	1.890	1.874	26.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	32.830	32.855	0.947	3.950	2.882	36.200
118	80	4.000	13.123	28.640	28.667	0.678	4.350	2.365	32.800
119	81	4.050	13.287	25.770	25.772	0.607	0.250	2.355	35.000
120	82	4.100	13.451	31.200	31.194	0.689	-0.990	2.209	45.400
121	83	4.150	13.615	55.610	55.619	0.414	1.410	0.744	36.400
122	84	4.200	13.779	38.670	38.756	0.809	13.730	2.087	27.700
123	85	4.250	13.943	62.300	62.329	0.881	4.690	1.413	37.300
124	86	4.300	14.107	74.360	74.363	0.722	0.560	0.971	32.800
125	87	4.350	14.271	72.250	72.285	1.185	5.610	1.639	23.900
126	88	4.400	14.436	25.020	25.062	1.144	6.680	4.565	24.000
127	89	4.450	14.600	32.540	32.538	0.997	-0.270	3.064	24.200
128	90	4.500	14.764	28.440	28.553	0.391	18.170	1.369	28.900
129	91	4.550	14.928	32.440	32.962	0.607	83.590	1.842	26.900
130	92	4.600	15.092	56.180	56.562	0.578	61.160	1.022	34.200
131	93	4.650	15.256	55.530	55.984	0.470	72.690	0.840	44.000
132	94	4.700	15.420	176.990	176.994	4.759	0.580	2.689	39.400
133	95	4.750	15.584	266.320	266.324	4.473	0.700	1.680	46.100
134	96	4.800	15.748	18.770	18.775	3.905	0.790	20.799	60.500
135	97	4.850	15.912	38.580	38.590	0.564	1.590	1.462	50.500
136	98	4.900	16.076	20.470	20.631	0.670	25.860	3.247	61.800
137	99	4.950	16.240	29.840	29.831	0.730	-1.410	2.447	72.300
138	100	5.000	16.404	32.690	32.691	0.754	0.130	2.306	76.300
139	101	5.050	16.568	31.780	31.705	0.860	-12.070	2.713	88.000
140	102	5.100	16.732	34.390	34.349	0.466	-6.510	1.357	67.400
141	103	5.150	16.896	57.200	57.199	0.884	-0.210	1.545	52.700
142	104	5.200	17.060	47.350	47.360	0.800	1.630	1.689	37.300
143	105	5.250	17.224	29.020	29.087	1.270	10.790	4.366	25.900
144	106	5.300	17.388	30.620	30.616	0.745	-0.650	2.433	29.800
145	107	5.350	17.552	24.180	24.248	0.697	10.910	2.874	17.600
146	108	5.400	17.716	38.590	38.611	0.705	3.370	1.826	19.100
147	109	5.450	17.880	41.600	41.617	0.718	2.780	1.725	20.100
148	110	5.500	18.044	22.190	22.209	0.852	3.070	3.836	19.100
149	111	5.550	18.208	42.130	42.306	0.901	28.160	2.130	12.400
150	112	5.600	18.372	42.420	42.539	0.715	19.010	1.681	12.500
151	113	5.650	18.537	56.790	56.784	0.849	-0.970	1.495	13.100
152	114	5.700	18.701	71.300	71.379	1.221	12.730	1.711	13.500
153	115	5.750	18.865	72.310	72.298	1.716	-1.960	2.374	12.000
154	116	5.800	19.029	38.550	38.854	1.712	48.670	4.406	13.000
155	117	5.850	19.193	56.780	56.763	1.667	-2.790	2.937	11.000
156	118	5.900	19.357	20.290	20.285	1.443	-0.790	7.114	13.000
157	119	5.950	19.521	54.850	54.921	1.298	11.410	2.363	13.300
158	120	6.000	19.685	42.040	42.150	1.184	17.700	2.809	17.800
159	121	6.050	19.849	27.420	27.407	1.296	-2.040	4.729	18.400
160	122	6.100	20.013	25.650	25.645	0.815	-0.790	3.178	20.100
161	123	6.150	20.177	29.400	29.382	0.877	-2.870	2.985	27.700
162	124	6.200	20.341	24.940	24.930	0.834	-1.630	3.345	32.400
163	125	6.250	20.505	25.330	25.523	0.798	30.880	3.127	33.200
164	126	6.300	20.669	46.100	46.100	1.310	-0.030	2.842	33.600
165	127	6.350	20.833	48.330	48.339	1.347	1.510	2.787	42.600
166	128	6.400	20.997	24.120	24.159	1.188	6.260	4.917	57.300
167	129	6.450	21.161	19.660	19.882	0.747	35.530	3.757	71.400
168	130	6.500	21.325	24.070	24.363	0.576	46.900	2.364	82.900
169	131	6.550	21.489	45.920	45.969	0.529	7.860	1.151	87.600
170	132	6.600	21.653	64.640	64.585	0.502	-8.810	0.777	72.400
171	133	6.650	21.817	86.980	86.964	0.339	-2.550	0.390	77.900
172	134	6.700	21.981	104.820	104.838	0.386	2.940	0.368	80.200
173	135	6.750	22.145	45.720	45.807	0.420	13.900	0.917	87.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
174	136	6.800	22.309	32.480	32.483	0.361	0.550	1.111	67.000
175	137	6.850	22.473	26.690	26.683	0.186	-1.060	0.697	68.500
176	138	6.900	22.638	27.970	27.974	0.464	0.570	1.659	52.400
177	139	6.950	22.802	20.200	20.206	1.141	1.030	5.647	53.500
178	140	7.000	22.966	44.330	44.314	1.185	-2.520	2.674	47.600
179	141	7.050	23.130	132.690	132.707	1.647	2.730	1.241	31.000
180	142	7.100	23.294	60.780	60.970	2.061	30.450	3.380	33.300
181	143	7.150	23.458	88.480	88.557	1.693	12.280	1.912	22.200
182	144	7.200	23.622	74.590	74.661	1.923	11.360	2.576	25.500
183	145	7.250	23.786	159.220	159.258	2.115	6.060	1.328	15.400
184	146	7.300	23.950	55.920	55.907	2.074	-2.150	3.710	20.700
185	147	7.350	24.114	29.840	29.900	1.465	9.660	4.900	19.900
186	148	7.400	24.278	13.550	13.633	0.826	13.300	6.059	24.000
187	149	7.450	24.442	14.460	14.585	0.603	20.050	4.134	21.400
188	150	7.500	24.606	17.430	17.453	0.573	3.750	3.283	21.500
189	151	7.550	24.770	62.490	62.516	1.411	4.180	2.257	23.400
190	152	7.600	24.934	52.740	52.740	0.993	0.060	1.883	29.800
191	153	7.650	25.098	49.570	49.607	1.076	5.890	2.169	28.600
192	154	7.700	25.262	21.170	21.170	0.728	-0.070	3.439	34.300
193	155	7.750	25.426	25.410	25.411	0.589	0.140	2.318	43.800
194	156	7.800	25.590	33.410	33.451	0.414	6.560	1.238	46.900
195	157	7.850	25.754	46.080	46.099	0.435	3.050	0.944	62.300
196	158	7.900	25.918	44.390	44.392	0.609	0.360	1.372	74.200
197	159	7.950	26.082	31.070	31.084	0.705	2.270	2.268	68.300
198	160	8.000	26.246	36.220	36.317	0.668	15.610	1.839	59.400
199	161	8.050	26.410	58.470	58.624	0.965	24.650	1.646	63.200
200	162	8.100	26.574	60.980	61.032	1.298	8.290	2.127	49.300
201	163	8.150	26.739	66.170	66.206	1.176	5.740	1.776	56.400
202	164	8.200	26.903	66.030	66.075	1.286	7.150	1.946	67.700
203	165	8.250	27.067	67.750	67.758	1.021	1.240	1.507	61.100
204	166	8.300	27.231	66.250	66.281	1.075	4.920	1.622	70.100
205	167	8.350	27.395	53.420	53.419	1.128	-0.240	2.112	48.300
206	168	8.400	27.559	39.120	39.137	0.815	2.690	2.082	52.300
207	169	8.450	27.723	38.540	38.608	0.908	10.970	2.352	31.000
208	170	8.500	27.887	30.270	30.279	0.921	1.520	3.042	46.600
209	171	8.550	28.051	8.490	8.599	0.745	17.400	8.664	32.900
210	172	8.600	28.215	21.650	21.773	0.812	19.660	3.729	27.000
211	173	8.650	28.379	28.190	28.243	0.689	8.560	2.440	21.900
212	174	8.700	28.543	24.140	24.183	0.661	6.900	2.733	17.000
213	175	8.750	28.707	13.220	13.569	0.503	55.980	3.707	24.000
214	176	8.800	28.871	18.160	18.144	0.426	-2.500	2.348	15.100
215	177	8.850	29.035	21.120	21.175	0.481	8.850	2.272	20.000
216	178	8.900	29.199	23.020	23.077	0.484	9.140	2.097	23.600
217	179	8.950	29.363	31.860	31.899	0.666	6.280	2.088	19.300
218	180	9.000	29.527	30.960	31.153	0.668	30.960	2.144	26.100
219	181	9.050	29.691	14.770	14.864	0.633	15.070	4.259	29.700
220	182	9.100	29.855	19.700	19.768	0.516	10.910	2.610	38.300
221	183	9.150	30.019	17.500	17.593	0.496	14.850	2.819	30.000
222	184	9.200	30.183	15.640	15.710	0.358	11.150	2.279	35.100
223	185	9.250	30.347	22.690	22.731	0.428	6.540	1.883	26.600
224	186	9.300	30.511	22.340	22.399	0.508	9.400	2.268	28.300
225	187	9.350	30.675	37.200	37.283	0.558	13.250	1.497	23.800
226	188	9.400	30.840	51.040	51.103	0.721	10.080	1.411	13.600
227	189	9.450	31.004	104.870	104.926	1.054	9.010	1.005	24.100
228	190	9.500	31.168	87.150	87.229	0.996	12.600	1.142	23.600
229	191	9.550	31.332	48.970	49.072	0.766	16.290	1.561	24.100
230	192	9.600	31.496	26.200	26.204	0.527	0.600	2.011	25.600

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
231	193	9.650	31.660	26.140	26.201	0.502	9.850	1.916	21.900
232	194	9.700	31.824	18.340	18.369	0.435	4.720	2.368	20.000
233	195	9.750	31.988	21.600	21.645	0.545	7.160	2.518	20.300
234	196	9.800	32.152	25.430	25.478	0.689	7.660	2.704	24.200
235	197	9.850	32.316	31.490	31.529	0.804	6.260	2.550	28.700
236	198	9.900	32.480	34.540	34.549	0.743	1.500	2.151	31.400
237	199	9.950	32.644	38.200	38.226	1.330	4.200	3.479	36.600
238	200	10.000	32.808	81.530	81.571	1.475	6.570	1.808	31.400
239	201	10.050	32.972	117.900	117.959	3.002	9.420	2.545	29.800
240	202	10.100	33.136	155.830	155.851	3.084	3.310	1.979	27.300
241	203	10.150	33.300	124.420	124.440	2.559	3.170	2.056	28.200
242	204	10.200	33.464	107.370	107.394	2.864	3.890	2.667	40.300
243	205	10.250	33.628	108.720	108.761	2.467	6.620	2.268	58.800
244	206	10.300	33.792	27.070	27.223	1.915	24.530	7.034	74.400
245	207	10.350	33.956	24.830	25.112	1.200	45.130	4.779	74.900
246	208	10.400	34.120	20.770	21.148	0.705	60.580	3.334	86.200
247	209	10.450	34.284	21.940	22.331	0.794	62.700	3.556	95.400
248	210	10.500	34.448	21.240	21.675	0.826	69.730	3.811	95.000
249	211	10.550	34.612	38.900	39.596	1.088	111.470	2.748	96.100
250	212	10.600	34.776	53.080	53.488	1.257	65.300	2.350	105.900
251	213	10.650	34.941	51.790	52.536	1.288	119.550	2.452	87.700
252	214	10.700	35.105	73.180	73.530	1.059	56.010	1.440	95.200
253	215	10.750	35.269	66.520	66.517	1.053	-0.410	1.583	89.800
254	216	10.800	35.433	43.490	43.456	0.991	-5.420	2.280	101.400
255	217	10.850	35.597	27.170	27.138	0.923	-5.190	3.401	93.600
256	218	10.900	35.761	20.820	20.800	0.677	-3.260	3.255	94.300
257	219	10.950	35.925	21.850	21.812	0.406	-6.040	1.861	65.000
258	220	11.000	36.089	19.510	19.506	0.383	-0.570	1.963	60.700
259	221	11.050	36.253	38.370	38.342	0.343	-4.520	0.895	43.300
260	222	11.100	36.417	22.570	22.568	0.276	-0.260	1.223	36.800
261	223	11.150	36.581	21.570	21.583	0.488	2.070	2.261	31.000
262	224	11.200	36.745	35.030	35.048	0.474	2.950	1.352	25.400
263	225	11.250	36.909	18.820	18.857	0.599	5.870	3.177	33.500
264	226	11.300	37.073	30.350	30.360	0.610	1.580	2.009	42.400
265	227	11.350	37.237	33.600	33.616	0.649	2.560	1.931	43.000
266	228	11.400	37.401	22.000	22.099	0.713	15.850	3.226	48.800
267	229	11.450	37.565	63.910	64.141	0.895	36.940	1.395	60.100
268	230	11.500	37.729	77.780	78.019	1.450	38.300	1.859	61.800
269	231	11.550	37.893	57.490	57.650	1.458	25.600	2.529	72.400
270	232	11.600	38.057	51.980	52.280	1.641	48.020	3.139	58.200
271	233	11.650	38.221	55.320	55.527	2.138	33.230	3.850	54.200
272	234	11.700	38.385	73.530	73.621	3.479	14.570	4.726	59.500
273	235	11.750	38.549	107.700	107.862	3.887	25.950	3.604	49.100
274	236	11.800	38.713	435.750	435.820	2.332	11.290	0.535	49.000
275	237	11.850	38.877	512.890	512.982	2.322	14.730	0.453	45.300
276	238	11.900	39.042	316.030	316.029	4.240	-0.180	1.342	42.900
277	239	11.950	39.206	94.460	94.465	1.401	0.800	1.483	49.900
278	240	12.000	39.370	110.530	110.535	1.738	0.810	1.572	49.400
279	241	12.050	39.534	75.060	75.064	1.788	0.640	2.382	49.700
280	242	12.100	39.698	67.510	67.526	2.386	2.590	3.533	46.800
281	243	12.150	39.862	56.910	56.970	1.409	9.630	2.473	43.800
282	244	12.200	40.026	93.000	93.048	1.768	7.610	1.900	44.500
283	245	12.250	40.190	101.150	101.204	0.945	8.720	0.934	46.800
284	246	12.300	40.354	121.550	121.565	0.721	2.330	0.593	39.600
285	247	12.350	40.518	127.390	127.381	1.020	-1.490	0.801	51.700
286	248	12.400	40.682	72.490	72.490	1.382	0.020	1.906	70.600
287	249	12.450	40.846	33.330	33.425	1.389	15.150	4.156	81.400

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
288	250	12.500	41.010	27.030	27.330	1.555	48.080	5.690	102.000
289	251	12.550	41.174	28.900	29.561	1.181	105.860	3.995	99.200
290	252	12.600	41.338	29.330	29.911	1.355	93.080	4.530	116.400
291	253	12.650	41.502	28.130	28.626	1.432	79.440	5.002	112.900
292	254	12.700	41.666	26.150	26.768	1.292	98.970	4.827	101.700
293	255	12.750	41.830	25.620	26.372	1.179	120.440	4.471	106.300
294	256	12.800	41.994	24.650	25.412	1.113	122.050	4.380	110.000
295	257	12.850	42.158	23.970	24.585	1.085	98.480	4.413	84.100
296	258	12.900	42.322	23.150	23.620	1.022	75.340	4.327	108.800
297	259	12.950	42.486	21.930	22.299	0.932	59.090	4.180	95.000
298	260	13.000	42.650	20.410	20.681	0.799	43.470	3.863	101.000
299	261	13.050	42.814	19.780	20.073	0.696	46.910	3.467	98.500
300	262	13.100	42.978	20.970	21.227	0.646	41.120	3.043	96.100
301	263	13.150	43.143	21.010	21.144	0.635	21.460	3.003	97.000
302	264	13.200	43.307	23.050	23.180	0.590	20.820	2.545	83.200
303	265	13.250	43.471	27.540	27.663	0.620	19.660	2.241	85.400
304	266	13.300	43.635	26.530	26.572	0.557	6.650	2.096	98.000
305	267	13.350	43.799	21.930	22.028	0.537	15.620	2.438	98.800
306	268	13.400	43.963	22.040	22.248	0.516	33.250	2.319	108.700
307	269	13.450	44.127	23.200	23.361	0.445	25.710	1.905	112.200
308	270	13.500	44.291	22.490	22.736	0.511	39.460	2.248	89.400
309	271	13.550	44.455	24.130	24.328	0.484	31.690	1.989	83.800
310	272	13.600	44.619	21.730	21.917	0.516	30.000	2.354	98.200
311	273	13.650	44.783	24.310	24.637	0.481	52.330	1.952	102.600
312	274	13.700	44.947	28.410	28.571	0.540	25.800	1.890	95.700
313	275	13.750	45.111	32.080	32.204	0.579	19.890	1.798	103.300
314	276	13.800	45.275	35.310	35.431	0.564	19.320	1.592	93.500
315	277	13.850	45.439	36.970	37.071	0.601	16.230	1.621	97.800
316	278	13.900	45.603	38.210	38.308	0.573	15.680	1.496	88.300
317	279	13.950	45.767	33.450	33.548	0.595	15.720	1.774	95.900
318	280	14.000	45.931	36.040	36.217	0.613	28.360	1.693	88.600
319	281	14.050	46.095	35.260	35.367	0.593	17.140	1.677	91.400
320	282	14.100	46.259	35.430	35.533	0.607	16.500	1.708	88.800
321	283	14.150	46.423	43.290	43.364	0.595	11.780	1.372	101.900
322	284	14.200	46.587	50.570	50.597	0.632	4.330	1.249	88.900
323	285	14.250	46.751	47.500	47.518	0.708	2.960	1.490	96.300
324	286	14.300	46.915	48.350	48.421	0.700	11.350	1.446	90.100
325	287	14.350	47.079	61.170	61.218	0.594	7.730	0.970	99.800
326	288	14.400	47.244	63.260	63.280	0.588	3.200	0.929	92.300
327	289	14.450	47.408	64.180	64.192	0.560	1.910	0.872	93.500
328	290	14.500	47.572	62.280	62.292	0.546	1.980	0.877	92.200
329	291	14.550	47.736	59.880	59.901	0.518	3.340	0.865	83.600
330	292	14.600	47.900	53.630	53.665	0.575	5.670	1.071	82.400
331	293	14.650	48.064	38.480	38.516	0.687	5.720	1.784	83.900
332	294	14.700	48.228	26.050	26.126	0.681	12.220	2.607	93.200
333	295	14.750	48.392	20.600	20.711	0.553	17.710	2.670	90.200
334	296	14.800	48.556	19.970	20.147	0.370	28.400	1.836	85.000
335	297	14.850	48.720	19.250	19.433	0.293	29.310	1.508	94.100
336	298	14.900	48.884	15.620	15.808	0.379	30.180	2.397	84.400
337	299	14.950	49.048	15.820	16.059	0.464	38.330	2.889	91.300
338	300	15.000	49.212	33.800	34.070	0.448	43.180	1.315	84.800
339	301	15.050	49.376	61.660	61.752	0.378	14.740	0.612	93.800
340	302	15.100	49.540	66.340	66.378	0.454	6.060	0.684	88.300
341	303	15.150	49.704	60.920	60.944	0.585	3.810	0.960	92.700
342	304	15.200	49.868	66.620	66.655	0.692	5.600	1.038	88.000
343	305	15.250	50.032	79.260	79.267	0.660	1.180	0.833	96.000
344	306	15.300	50.196	94.500	94.511	0.617	1.830	0.653	97.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
345	307	15.350	50.360	102.650	102.649	0.661	-0.170	0.644	91.700
346	308	15.400	50.524	100.280	100.274	0.716	-0.930	0.714	85.500
347	309	15.450	50.688	86.820	86.828	0.849	1.320	0.978	81.600
348	310	15.500	50.852	61.320	61.310	0.982	-1.560	1.602	85.300
349	311	15.550	51.016	51.810	51.809	0.976	-0.140	1.884	87.200
350	312	15.600	51.180	46.110	46.109	1.061	-0.230	2.301	98.400
351	313	15.650	51.345	47.240	47.261	1.048	3.330	2.217	91.800
352	314	15.700	51.509	68.590	68.627	1.042	5.980	1.518	79.700
353	315	15.750	51.673	96.310	96.317	0.868	1.200	0.901	77.700
354	316	15.800	51.837	127.560	127.567	0.741	1.170	0.581	78.100
355	317	15.850	52.001	146.960	146.955	0.860	-0.740	0.585	63.200
356	318	15.900	52.165	155.710	155.702	0.868	-1.250	0.557	65.500
357	319	15.950	52.329	184.100	184.112	1.072	1.940	0.582	63.200
358	320	16.000	52.493	215.040	215.083	1.317	6.880	0.612	54.600
359	321	16.050	52.657	240.800	240.847	1.574	7.510	0.654	56.500
360	322	16.100	52.821	267.460	267.530	1.672	11.140	0.625	50.900
361	323	16.150	52.985	286.480	286.557	1.809	12.310	0.631	56.600
362	324	16.200	53.149	276.300	276.363	1.844	10.140	0.667	56.100
363	325	16.250	53.313	229.750	229.809	1.744	9.520	0.759	49.000
364	326	16.300	53.477	195.270	195.301	1.445	5.030	0.740	45.500
365	327	16.350	53.641	182.680	182.705	1.032	3.960	0.565	51.900
366	328	16.400	53.805	175.540	175.573	0.939	5.340	0.535	48.400
367	329	16.450	53.969	173.580	173.671	0.966	14.580	0.556	53.000
368	330	16.500	54.133	182.020	182.105	1.021	13.660	0.561	41.100
369	331	16.550	54.297	197.920	198.015	1.155	15.190	0.583	35.700
370	332	16.600	54.461	215.600	215.701	1.323	16.110	0.613	51.400
371	333	16.650	54.625	240.300	240.403	1.432	16.560	0.596	46.600
372	334	16.700	54.789	278.830	278.946	1.639	18.590	0.588	0.000
373	335	16.750	54.953	327.900	328.031	1.891	21.040	0.576	0.000
374	336	16.800	55.117	381.050	381.228	2.373	28.550	0.622	0.000
375	337	16.850	55.281	405.050	405.335	2.934	45.650	0.724	0.000
376	338	16.900	55.446	406.780	407.127	3.367	55.600	0.827	0.000
377	339	16.950	55.610	410.480	410.745	3.553	42.470	0.865	0.000
378	340	17.000	55.774	407.970	408.239	3.509	43.160	0.860	0.000
379	341	17.050	55.938	403.090	403.329	3.460	38.240	0.858	0.000
380	342	17.100	56.102	395.810	396.013	3.329	32.460	0.841	0.000
381	343	17.150	56.266	384.730	384.872	3.119	22.700	0.810	0.000
382	344	17.200	56.430	367.200	367.323	2.929	19.640	0.797	0.000
383	345	17.250	56.594	339.410	339.495	2.947	13.690	0.868	0.000
384	346	17.300	56.758	317.800	317.873	2.412	11.670	0.759	0.000
385	347	17.350	56.922	256.440	256.539	0.000	15.900	0.000	0.000
386	348	17.400	57.086	281.000	281.071	0.000	11.450	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272427				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15-1D-18				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-20-2015				
14		CPT Time:			08:14				
15		CPT File:			15-53039_GP1D-18.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722081.528				
31		Northing / Lat:			4294155.012				
32		Elevation:			146.520				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	21.330	21.340	0.039	1.610	0.183	17.500
40	2	0.100	0.328	44.300	44.320	0.101	3.180	0.228	22.900
41	3	0.150	0.492	51.820	51.843	0.108	3.680	0.208	20.300
42	4	0.200	0.656	49.220	49.215	0.157	-0.750	0.319	24.800
43	5	0.250	0.820	48.610	48.619	0.135	1.410	0.278	18.700
44	6	0.300	0.984	51.270	51.272	0.138	0.260	0.269	20.300
45	7	0.350	1.148	29.780	29.805	0.105	4.060	0.352	22.700
46	8	0.400	1.312	32.780	32.869	0.110	14.300	0.335	24.300
47	9	0.450	1.476	29.090	29.092	0.104	0.300	0.357	22.200
48	10	0.500	1.640	26.710	26.751	0.100	6.570	0.374	27.300
49	11	0.550	1.804	26.260	26.260	0.049	-0.010	0.187	32.600
50	12	0.600	1.968	27.720	27.723	0.278	0.450	1.003	38.900
51	13	0.650	2.133	50.190	50.229	0.173	6.190	0.344	43.900
52	14	0.700	2.297	62.350	62.377	0.406	4.250	0.651	66.400
53	15	0.750	2.461	47.460	47.511	0.609	8.100	1.282	67.100
54	16	0.800	2.625	55.890	55.876	0.794	-2.180	1.421	87.500
55	17	0.850	2.789	48.890	48.865	0.810	-3.950	1.658	92.900
56	18	0.900	2.953	44.990	44.967	0.843	-3.640	1.875	95.000
57	19	0.950	3.117	44.110	44.079	0.876	-4.980	1.987	86.100
58	20	1.000	3.281	37.020	37.007	0.918	-2.050	2.481	84.100
59	21	1.050	3.445	30.620	30.628	0.939	1.260	3.066	90.300

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
60	22	1.100	3.609	27.820	27.831	0.861	1.800	3.094	94.800
61	23	1.150	3.773	26.700	26.691	0.725	-1.440	2.716	89.600
62	24	1.200	3.937	21.650	21.629	0.626	-3.350	2.894	89.300
63	25	1.250	4.101	18.090	18.039	0.614	-8.140	3.404	97.200
64	26	1.300	4.265	16.140	16.081	0.456	-9.490	2.836	113.900
65	27	1.350	4.429	16.920	16.892	0.446	-4.550	2.640	102.300
66	28	1.400	4.593	21.430	21.434	0.512	0.580	2.389	86.600
67	29	1.450	4.757	39.630	39.645	0.675	2.430	1.703	105.700
68	30	1.500	4.921	43.320	43.304	0.840	-2.640	1.940	105.800
69	31	1.550	5.085	36.410	36.384	0.928	-4.190	2.551	80.800
70	32	1.600	5.249	31.690	31.658	0.941	-5.050	2.972	93.800
71	33	1.650	5.413	32.030	32.004	0.917	-4.140	2.865	92.400
72	34	1.700	5.577	36.660	36.629	0.798	-5.040	2.179	83.700
73	35	1.750	5.741	36.280	36.240	0.719	-6.370	1.984	85.700
74	36	1.800	5.905	33.090	33.047	0.524	-6.820	1.586	97.000
75	37	1.850	6.069	29.380	29.336	0.638	-7.070	2.175	78.400
76	38	1.900	6.234	25.950	25.913	0.598	-5.870	2.308	70.200
77	39	1.950	6.398	41.520	41.497	0.331	-3.640	0.798	58.100
78	40	2.000	6.562	84.440	84.426	0.400	-2.210	0.474	61.400
79	41	2.050	6.726	82.720	82.794	1.132	11.880	1.367	59.500
80	42	2.100	6.890	43.160	43.188	1.083	4.490	2.508	40.400
81	43	2.150	7.054	66.800	66.796	1.458	-0.620	2.183	57.900
82	44	2.200	7.218	57.910	57.974	0.866	10.330	1.494	63.900
83	45	2.250	7.382	28.490	28.747	0.911	41.230	3.169	89.700
84	46	2.300	7.546	26.750	26.720	0.583	-4.880	2.182	89.400
85	47	2.350	7.710	26.780	26.763	0.704	-2.690	2.630	95.900
86	48	2.400	7.874	29.450	29.433	0.663	-2.680	2.253	97.900
87	49	2.450	8.038	24.960	24.936	0.693	-3.770	2.779	90.200
88	50	2.500	8.202	25.350	25.331	0.733	-3.000	2.894	115.600
89	51	2.550	8.366	22.340	22.258	0.598	-13.110	2.687	101.400
90	52	2.600	8.530	19.600	19.514	0.645	-13.750	3.305	103.700
91	53	2.650	8.694	20.080	20.003	0.673	-12.270	3.364	86.700
92	54	2.700	8.858	16.730	16.605	0.817	-20.040	4.920	118.400
93	55	2.750	9.022	18.850	18.721	0.913	-20.640	4.877	108.900
94	56	2.800	9.186	13.480	13.337	0.748	-22.970	5.609	101.000
95	57	2.850	9.350	11.320	11.201	0.626	-19.110	5.589	105.800
96	58	2.900	9.514	11.300	11.193	0.493	-17.180	4.405	102.000
97	59	2.950	9.678	11.760	11.660	0.514	-16.020	4.408	108.600
98	60	3.000	9.842	15.480	15.374	0.602	-16.920	3.916	99.500
99	61	3.050	10.006	19.420	19.337	0.823	-13.350	4.256	116.400
100	62	3.100	10.170	18.140	18.048	0.934	-14.740	5.175	120.400
101	63	3.150	10.335	13.480	13.392	0.911	-14.110	6.803	106.300
102	64	3.200	10.499	13.160	13.074	0.652	-13.760	4.987	103.400
103	65	3.250	10.663	13.560	13.480	0.471	-12.880	3.494	115.900
104	66	3.300	10.827	13.710	13.632	0.508	-12.560	3.727	103.000
105	67	3.350	10.991	12.530	12.472	0.508	-9.230	4.073	98.500
106	68	3.400	11.155	11.100	11.039	0.468	-9.760	4.239	94.800
107	69	3.450	11.319	10.350	10.289	0.418	-9.790	4.063	94.500
108	70	3.500	11.483	10.190	10.133	0.412	-9.140	4.066	85.800
109	71	3.550	11.647	9.820	9.762	0.478	-9.340	4.897	78.100
110	72	3.600	11.811	16.020	15.961	0.604	-9.380	3.784	69.000
111	73	3.650	11.975	33.200	33.146	0.795	-8.600	2.398	53.600
112	74	3.700	12.139	31.270	31.263	1.065	-1.160	3.407	0.000
113	75	3.750	12.303	36.030	36.029	1.172	-0.200	3.253	0.000
114	76	3.800	12.467	48.410	48.449	1.502	6.290	3.100	0.000
115	77	3.850	12.631	47.440	47.444	1.313	0.720	2.767	0.000
116	78	3.900	12.795	32.260	32.282	1.748	3.600	5.415	0.000

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
117	79	3.950	12.959	41.450	41.450	1.375	-0.020	3.317	0.000
118	80	4.000	13.123	19.640	19.639	1.052	-0.230	5.357	0.000
119	81	4.050	13.287	24.360	24.364	0.557	0.640	2.286	0.000
120	82	4.100	13.451	24.110	24.134	0.690	3.840	2.859	0.000
121	83	4.150	13.615	17.740	17.747	0.607	1.080	3.420	0.000
122	84	4.200	13.779	65.830	65.949	0.443	18.990	0.672	0.000
123	85	4.250	13.943	208.960	209.013	0.354	8.410	0.169	0.000
124	86	4.300	14.107	349.290	349.315	0.418	4.060	0.120	0.000
125	87	4.350	14.271	426.670	426.666	0.577	-0.670	0.135	0.000
126	88	4.400	14.436	512.140	512.143	0.000	0.410	0.000	0.000
127	89	4.450	14.600	613.760	613.763	0.000	0.490	0.000	0.000

	A	B	C	D	E	F	G	H	I
1		ConeTec CPT Interpretations							
2		Interpretation Output - SCREENzW Version 1.38C - Dec 18 2014							
3		DAS Version: W47							
4		Interpretation Format:			Basic Parameters at Every Point (BSC)				
5		Run ID:			1433272373				
6		Job No:			15-53039				
7		Client:			EMSI				
8		Project:			Bridgeton Landfill				
9		Facility:			Bridgeton Landfill				
10		Sounding ID:			GCPT15_PVC-25				
11		Cone ID:			419:T1500F15U500				
12		Operator:			AC/TF/MC				
13		CPT Date:			May-12-2015				
14		CPT Time:			13:32				
15		CPT File:			15-53039_GPPVC25.COR				
16									
17		Tip Units:			tsf				
18		Sleeve Units:			tsf				
19		PP Units:			ft				
20		Tip Conversion to bar:			0.9580				
21		Sleeve Conversion to bar:			0.9580				
22		PP Conversion to meters:			0.3050				
23									
24		Col 5 (Extra Module) Parameter			Gamma				
25		Col 5 (Extra Module) Units			cps				
26									
27		Coord Source:							
28		Coord Type:							
29		UTM Zone:			N/A				
30		Easting / Long:			722180.234				
31		Northing / Lat:			4294400.102				
32		Elevation:			141.680				
33									
34		Tip Net Area Ratio:			0.80				
35		Averaging Interval:			Every Point				
36									
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
38		m	ft	tsf	tsf	tsf	ft	%	cps
39	1	0.050	0.164	0.030	0.030	0.005	0.050	16.495	26.900
40	2	0.100	0.328	0.000	0.010	0.004	0.020	38.320	37.000
41	3	0.150	0.492	0.030	0.030	0.007	0.040	23.141	44.500
42	4	0.200	0.656	0.060	0.060	0.008	0.030	13.292	45.800
43	5	0.250	0.820	0.070	0.071	0.004	0.090	5.669	56.000
44	6	0.300	0.984	0.030	0.030	0.008	0.010	26.611	54.200
45	7	0.350	1.148	0.040	0.041	0.011	0.090	27.119	61.000
46	8	0.400	1.312	0.020	0.020	0.009	0.030	44.583	74.300
47	9	0.450	1.476	0.080	0.080	0.006	0.010	7.494	71.900
48	10	0.500	1.640	0.050	0.050	0.010	0.080	19.802	68.700
49	11	0.550	1.804	0.090	0.090	0.006	0.030	6.653	70.900
50	12	0.600	1.968	0.070	0.070	0.007	0.080	9.929	72.200
51	13	0.650	2.133	0.080	0.080	0.006	0.050	7.471	85.200
52	14	0.700	2.297	0.060	0.060	0.008	0.070	13.237	72.900
53	15	0.750	2.461	0.020	0.020	0.015	0.050	73.847	75.300
54	16	0.800	2.625	0.090	0.091	0.001	0.090	1.104	88.000
55	17	0.850	2.789	0.000	0.010	0.013	0.060	124.540	84.300
56	18	0.900	2.953	0.020	0.020	0.008	0.030	39.629	88.000
57	19	0.950	3.117	0.010	0.010	0.005	0.010	47.900	82.500
58	20	1.000	3.281	0.040	0.040	0.008	0.070	19.784	76.500
59	21	1.050	3.445	0.000	0.010	0.004	0.020	38.320	88.200

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
60	22	1.100	3.609	0.000	0.010	0.010	0.030	95.800	91.900
61	23	1.150	3.773	0.070	0.070	0.006	0.080	8.511	91.300
62	24	1.200	3.937	0.070	0.071	0.007	0.090	9.920	95.600
63	25	1.250	4.101	0.080	0.080	0.008	0.010	9.992	88.900
64	26	1.300	4.265	0.050	0.050	0.009	0.060	17.866	78.900
65	27	1.350	4.429	0.030	0.030	0.007	0.000	23.333	83.200
66	28	1.400	4.593	0.090	0.090	0.007	0.020	7.767	84.200
67	29	1.450	4.757	0.080	0.080	0.007	0.010	8.743	86.200
68	30	1.500	4.921	0.080	0.080	0.005	0.060	6.221	100.200
69	31	1.550	5.085	0.090	0.090	0.009	0.050	9.965	89.600
70	32	1.600	5.249	0.020	0.020	0.008	0.010	39.876	98.800
71	33	1.650	5.413	0.090	0.090	0.013	0.010	14.434	99.000
72	34	1.700	5.577	0.030	0.030	0.005	0.000	16.667	117.400
73	35	1.750	5.741	0.090	0.090	0.009	0.060	9.959	137.600
74	36	1.800	5.905	0.040	0.040	0.008	0.070	19.784	168.200
75	37	1.850	6.069	0.040	0.040	0.017	0.000	42.500	186.400
76	38	1.900	6.234	0.040	0.041	0.008	0.090	19.723	188.300
77	39	1.950	6.398	0.000	0.010	0.006	0.080	57.480	168.100
78	40	2.000	6.562	0.050	0.050	0.007	0.010	13.983	149.400
79	41	2.050	6.726	0.040	0.041	0.008	0.090	19.723	119.900
80	42	2.100	6.890	0.090	0.090	0.006	0.040	6.648	98.000
81	43	2.150	7.054	0.010	0.011	0.007	0.090	66.276	89.300
82	44	2.200	7.218	0.040	0.040	0.010	0.030	24.883	73.900
83	45	2.250	7.382	0.080	0.081	0.002	0.090	2.483	65.300
84	46	2.300	7.546	0.090	0.090	0.010	0.030	11.088	73.400
85	47	2.350	7.710	0.070	0.070	0.008	0.000	11.429	73.200
86	48	2.400	7.874	0.020	0.020	0.005	0.030	24.768	80.800
87	49	2.450	8.038	0.070	0.070	0.009	0.030	12.823	96.200
88	50	2.500	8.202	0.060	0.061	0.008	0.090	13.210	122.900
89	51	2.550	8.366	0.000	0.010	0.005	0.020	47.900	191.300
90	52	2.600	8.530	0.040	0.040	0.007	0.070	17.311	286.700
91	53	2.650	8.694	0.050	0.050	0.009	0.020	17.955	397.900
92	54	2.700	8.858	0.020	0.020	0.007	0.020	34.783	566.000
93	55	2.750	9.022	0.090	0.090	0.008	0.030	8.870	727.000
94	56	2.800	9.186	0.050	0.050	0.007	0.020	13.965	843.500
95	57	2.850	9.350	0.090	0.091	0.009	0.090	9.938	974.700
96	58	2.900	9.514	0.070	0.070	0.009	0.000	12.857	1093.800
97	59	2.950	9.678	0.020	0.020	0.009	0.070	44.038	1150.400
98	60	3.000	9.842	0.030	0.030	0.009	0.050	29.691	1127.900
99	61	3.050	10.006	0.000	0.010	0.010	0.000	95.800	1071.300
100	62	3.100	10.170	0.080	0.080	0.008	0.030	9.977	1065.900
101	63	3.150	10.335	0.060	0.060	0.016	0.040	26.556	935.200
102	64	3.200	10.499	0.050	0.050	0.009	0.060	17.866	702.600
103	65	3.250	10.663	0.020	0.021	0.009	0.090	43.770	566.500
104	66	3.300	10.827	0.010	0.010	0.006	0.080	57.146	409.800
105	67	3.350	10.991	0.040	0.040	0.010	0.050	24.806	317.800
106	68	3.400	11.155	0.090	0.090	0.006	0.080	6.630	288.100
107	69	3.450	11.319	0.030	0.030	0.006	0.020	19.917	263.000
108	70	3.500	11.483	0.010	0.011	0.005	0.090	47.340	240.500
109	71	3.550	11.647	0.050	0.050	0.007	0.010	13.983	196.500
110	72	3.600	11.811	0.060	0.060	0.007	0.060	11.594	141.400
111	73	3.650	11.975	0.010	0.010	0.008	0.040	76.640	121.800
112	74	3.700	12.139	0.010	0.010	0.008	0.030	76.640	104.800
113	75	3.750	12.303	0.040	0.040	0.008	0.050	19.845	83.200
114	76	3.800	12.467	0.070	0.071	0.008	0.090	11.338	64.400
115	77	3.850	12.631	0.040	0.040	0.008	0.030	19.907	77.200
116	78	3.900	12.795	0.050	0.050	0.009	0.080	17.822	59.900
117	79	3.950	12.959	0.030	0.030	0.010	0.070	32.855	68.100

	A	B	C	D	E	F	G	H	I
37	Layer	Depth	Depth	qc	qt	fs	u	Rf	Gamma
118	80	4.000	13.123	0.010	0.010	0.011	0.070	105.380	72.400
119	81	4.050	13.287	0.070	0.070	0.006	0.020	8.556	86.300
120	82	4.100	13.451	0.020	0.020	0.004	0.060	19.632	104.800
121	83	4.150	13.615	0.020	0.020	0.008	0.010	39.876	92.000
122	84	4.200	13.779	0.050	0.050	0.008	0.020	15.960	94.000
123	85	4.250	13.943	0.050	0.050	0.010	0.030	19.925	84.400
124	86	4.300	14.107	0.050	0.050	0.009	0.000	18.000	80.400
125	87	4.350	14.271	0.060	0.060	0.008	0.050	13.264	70.700
126	88	4.400	14.436	0.060	0.061	0.008	0.090	13.210	82.800
127	89	4.450	14.600	0.090	0.090	0.007	0.020	7.767	79.100
128	90	4.500	14.764	0.070	0.070	0.009	0.080	12.766	66.800
129	91	4.550	14.928	0.000	0.010	0.009	0.030	86.220	77.600
130	92	4.600	15.092	0.040	0.040	0.011	0.020	27.414	80.000
131	93	4.650	15.256	0.060	0.060	0.008	0.040	13.278	75.200
132	94	4.700	15.420	0.020	0.020	0.010	0.070	48.931	76.800
133	95	4.750	15.584	0.030	0.030	0.009	0.010	29.938	83.200
134	96	4.800	15.748	0.050	0.050	0.010	0.080	19.802	76.300
135	97	4.850	15.912	0.030	0.030	0.010	0.080	32.788	80.600
136	98	4.900	16.076	0.050	0.050	0.010	0.020	19.950	78.300
137	99	4.950	16.240	0.040	0.040	0.009	0.020	22.430	0.000
138	100	5.000	16.404	0.050	0.050	0.008	0.080	15.842	0.000
139	101	5.050	16.568	0.010	0.010	0.008	0.010	76.640	0.000
140	102	5.100	16.732	0.070	0.070	0.009	0.060	12.789	0.000
141	103	5.150	16.896	0.050	0.050	0.000	0.080	0.000	0.000
142	104	5.200	17.060	0.020	0.020	0.000	0.080	0.000	0.000
143	105	5.250	17.224	0.040	0.040	0.011	0.020	27.414	0.000
144	106	5.300	17.388	0.060	0.060	0.008	0.040	13.278	0.000
145	107	5.350	17.552	0.020	0.020	0.010	0.070	48.931	0.000
146	108	5.400	17.716	0.030	0.030	0.009	0.010	29.938	0.000
147	109	5.450	17.880	0.050	0.050	0.010	0.080	19.802	0.000
148	110	5.500	18.044	0.030	0.030	0.010	0.080	32.788	0.000
149	111	5.550	18.208	0.050	0.050	0.010	0.020	19.950	0.000
150	112	5.600	18.372	0.040	0.040	0.000	0.020	0.000	0.000
151	113	5.650	18.537	0.050	0.050	0.000	0.080	0.000	0.000

Appendix A-4:

Phase 1D Pore Water Dissipation Test Data from ConeTec

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-03.PP
Job Number:	15-53039
Sounding ID:	GCPT15-1D-03
Location:	Bridgeton Landfill
Sounding Date:	15-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	2	Of 23
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	2	
Longest Trace - Points:	119	
Longest Trace - Depth (m):	14.050	
Longest Trace - Depth (ft):	46.095	
Longest Trace - Duration (s):	590.0	
Longest Trace - Duration (min):	9.83	
Longest Trace - Duration (hrs):	0.164	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 55 13.000 42.650	2 119 14.050 46.095
0.0	0.00		9.64	16.36
5.0	0.08		5.39	11.99
10.0	0.17		6.07	14.46
15.0	0.25		6.18	14.35
20.0	0.33		5.97	12.84
25.0	0.42		5.87	12.16
30.0	0.50		5.64	11.61
35.0	0.58		5.43	11.10
40.0	0.67		5.31	10.70
45.0	0.75		5.15	10.20
50.0	0.83		5.04	9.88
55.0	0.92		4.75	9.44
60.0	1.00		4.72	9.07
65.0	1.08		4.55	8.76
70.0	1.17		4.36	8.45
75.0	1.25		4.29	8.26
80.0	1.33		4.20	7.83
85.0	1.42		4.10	7.61
90.0	1.50		3.99	7.28
95.0	1.58		3.91	7.10
100.0	1.67		3.75	6.99
105.0	1.75		3.64	6.82
110.0	1.83		3.61	6.60
115.0	1.92		3.46	6.53
120.0	2.00		3.39	6.50
125.0	2.08		3.39	6.27
130.0	2.17		3.29	6.28
135.0	2.25		3.21	6.07
140.0	2.33		3.11	5.96

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1	2		
27		(s)	(min)	Trace Points	55	119		
28				Depth (m)	13.000	14.050		
29				Depth (ft)	42.650	46.095		
59		145.0	2.42		3.16	5.81		
60		150.0	2.50		2.96	5.74		
61		155.0	2.58		3.03	5.66		
62		160.0	2.67		2.90	5.61		
63		165.0	2.75		2.88	5.62		
64		170.0	2.83		2.77	5.53		
65		175.0	2.92		2.72	5.42		
66		180.0	3.00		2.67	5.30		
67		185.0	3.08		2.59	5.61		
68		190.0	3.17		2.58	5.51		
69		195.0	3.25		2.54	5.37		
70		200.0	3.33		2.50	5.41		
71		205.0	3.42		2.47	5.23		
72		210.0	3.50		2.38	5.37		
73		215.0	3.58		2.39	4.99		
74		220.0	3.67		2.31	4.96		
75		225.0	3.75		2.40	4.88		
76		230.0	3.83		2.24	4.73		
77		235.0	3.92		2.24	4.75		
78		240.0	4.00		2.18	4.60		
79		245.0	4.08		2.20	4.59		
80		250.0	4.17		2.18	4.53		
81		255.0	4.25		2.08	4.51		
82		260.0	4.33		2.14	4.47		
83		265.0	4.42		1.98	4.38		
84		270.0	4.50		2.00	4.33		
85		275.0	4.58			4.32		
86		280.0	4.67			4.27		
87		285.0	4.75			4.38		
88		290.0	4.83			4.25		
89		295.0	4.92			4.28		
90		300.0	5.00			4.24		
91		305.0	5.08			4.16		
92		310.0	5.17			4.13		
93		315.0	5.25			4.18		
94		320.0	5.33			4.27		
95		325.0	5.42			4.16		
96		330.0	5.50			4.14		
97		335.0	5.58			4.13		
98		340.0	5.67			4.14		
99		345.0	5.75			4.08		
100		350.0	5.83			4.03		
101		355.0	5.92			3.96		
102		360.0	6.00			4.04		
103		365.0	6.08			4.05		
104		370.0	6.17			4.04		
105		375.0	6.25			4.03		
106		380.0	6.33			4.00		
107		385.0	6.42			4.02		
108		390.0	6.50			3.97		
109		395.0	6.58			3.94		
110		400.0	6.67			3.95		
111		405.0	6.75			3.96		
112		410.0	6.83			3.85		
113		415.0	6.92			3.97		

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1	2		
27		(s)	(min)	Trace Points	55	119		
28				Depth (m)	13.000	14.050		
29				Depth (ft)	42.650	46.095		
114		420.0	7.00			3.88		
115		425.0	7.08			3.88		
116		430.0	7.17			3.85		
117		435.0	7.25			3.92		
118		440.0	7.33			3.90		
119		445.0	7.42			3.81		
120		450.0	7.50			3.90		
121		455.0	7.58			4.00		
122		460.0	7.67			3.95		
123		465.0	7.75			3.96		
124		470.0	7.83			3.89		
125		475.0	7.92			3.89		
126		480.0	8.00			3.92		
127		485.0	8.08			3.86		
128		490.0	8.17			3.76		
129		495.0	8.25			3.90		
130		500.0	8.33			3.88		
131		505.0	8.42			3.79		
132		510.0	8.50			3.90		
133		515.0	8.58			4.19		
134		520.0	8.67			4.10		
135		525.0	8.75			4.08		
136		530.0	8.83			3.95		
137		535.0	8.92			3.92		
138		540.0	9.00			3.87		
139		545.0	9.08			3.88		
140		550.0	9.17			3.94		
141		555.0	9.25			3.88		
142		560.0	9.33			3.86		
143		565.0	9.42			3.88		
144		570.0	9.50			3.93		
145		575.0	9.58			3.87		
146		580.0	9.67			3.86		
147		585.0	9.75			3.73		
148		590.0	9.83			3.78		
149								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-04.PP
Job Number:	15-53039
Sounding ID:	GCPT15-1D-04
Location:	Bridgeton Landfill
Sounding Date:	16-May-2015
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 37
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	73
Longest Trace - Depth (m):	19.650
Longest Trace - Depth (ft):	64.468
Longest Trace - Duration (s):	360.0
Longest Trace - Duration (min):	6.00
Longest Trace - Duration (hrs):	0.100
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 73 / 19.650 / 64.468
0.0	0.00		28.46
5.0	0.08		11.66
10.0	0.17		15.50
15.0	0.25		16.47
20.0	0.33		16.73
25.0	0.42		16.80
30.0	0.50		16.68
35.0	0.58		16.56
40.0	0.67		16.30
45.0	0.75		16.02
50.0	0.83		15.82
55.0	0.92		15.59
60.0	1.00		15.35
65.0	1.08		15.09
70.0	1.17		15.07
75.0	1.25		14.84
80.0	1.33		14.63
85.0	1.42		14.42
90.0	1.50		14.37
95.0	1.58		14.28
100.0	1.67		14.20
105.0	1.75		13.90
110.0	1.83		13.87
115.0	1.92		13.70
120.0	2.00		13.67
125.0	2.08		13.65
130.0	2.17		13.57
135.0	2.25		13.37
140.0	2.33		13.35

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	73			
28				Depth (m)	19.650			
29				Depth (ft)	64.468			
59		145.0	2.42		13.26			
60		150.0	2.50		13.21			
61		155.0	2.58		13.13			
62		160.0	2.67		13.26			
63		165.0	2.75		13.09			
64		170.0	2.83		13.01			
65		175.0	2.92		13.04			
66		180.0	3.00		12.99			
67		185.0	3.08		12.86			
68		190.0	3.17		12.93			
69		195.0	3.25		12.85			
70		200.0	3.33		12.81			
71		205.0	3.42		12.78			
72		210.0	3.50		12.82			
73		215.0	3.58		12.71			
74		220.0	3.67		12.71			
75		225.0	3.75		12.66			
76		230.0	3.83		12.69			
77		235.0	3.92		12.68			
78		240.0	4.00		12.64			
79		245.0	4.08		12.72			
80		250.0	4.17		12.60			
81		255.0	4.25		12.57			
82		260.0	4.33		12.58			
83		265.0	4.42		12.52			
84		270.0	4.50		12.54			
85		275.0	4.58		12.53			
86		280.0	4.67		12.57			
87		285.0	4.75		12.53			
88		290.0	4.83		12.53			
89		295.0	4.92		12.46			
90		300.0	5.00		12.52			
91		305.0	5.08		12.49			
92		310.0	5.17		12.51			
93		315.0	5.25		12.49			
94		320.0	5.33		12.39			
95		325.0	5.42		12.50			
96		330.0	5.50		12.50			
97		335.0	5.58		12.52			
98		340.0	5.67		12.38			
99		345.0	5.75		12.44			
100		350.0	5.83		12.42			
101		355.0	5.92		12.40			
102		360.0	6.00		12.53			
103								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-05.PF
Job Number:	15-53039
Sounding ID:	GCPT15-1D-05
Location:	Bridgeton Landfill
Sounding Date:	15-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 25
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	55	
Longest Trace - Depth (m):	21.350	
Longest Trace - Depth (ft):	70.045	
Longest Trace - Duration (s):	270.0	
Longest Trace - Duration (min):	4.50	
Longest Trace - Duration (hrs):	0.075	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 55 / 21.350 / 70.045
0.0	0.00		35.45
5.0	0.08		19.81
10.0	0.17		20.82
15.0	0.25		19.97
20.0	0.33		19.05
25.0	0.42		18.03
30.0	0.50		17.13
35.0	0.58		16.31
40.0	0.67		15.76
45.0	0.75		14.92
50.0	0.83		14.63
55.0	0.92		13.96
60.0	1.00		13.47
65.0	1.08		13.12
70.0	1.17		12.91
75.0	1.25		12.51
80.0	1.33		12.29
85.0	1.42		12.00
90.0	1.50		11.93
95.0	1.58		11.75
100.0	1.67		11.46
105.0	1.75		11.26
110.0	1.83		11.17
115.0	1.92		11.13
120.0	2.00		10.96
125.0	2.08		10.73
130.0	2.17		10.78
135.0	2.25		11.24
140.0	2.33		10.96

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	55			
28				Depth (m)	21.350			
29				Depth (ft)	70.045			
59		145.0	2.42		10.96			
60		150.0	2.50		10.94			
61		155.0	2.58		10.84			
62		160.0	2.67		10.73			
63		165.0	2.75		10.85			
64		170.0	2.83		10.78			
65		175.0	2.92		10.69			
66		180.0	3.00		10.52			
67		185.0	3.08		10.65			
68		190.0	3.17		10.52			
69		195.0	3.25		10.49			
70		200.0	3.33		10.50			
71		205.0	3.42		10.37			
72		210.0	3.50		10.37			
73		215.0	3.58		10.44			
74		220.0	3.67		10.49			
75		225.0	3.75		10.74			
76		230.0	3.83		10.70			
77		235.0	3.92		10.59			
78		240.0	4.00		10.55			
79		245.0	4.08		10.54			
80		250.0	4.17		10.56			
81		255.0	4.25		10.61			
82		260.0	4.33		10.71			
83		265.0	4.42		10.69			
84		270.0	4.50		10.67			
85								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-06.PF
Job Number:	15-53039
Sounding ID:	GCPT15-1D-06
Location:	Bridgeton Landfill
Sounding Date:	17-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 50
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	498	
Longest Trace - Depth (m):	25.250	
Longest Trace - Depth (ft):	82.840	
Longest Trace - Duration (s):	2485.0	
Longest Trace - Duration (min):	41.42	
Longest Trace - Duration (hrs):	0.690	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 498 / 25.250 / 82.840
0.0	0.00		13.33
5.0	0.08		11.38
10.0	0.17		10.74
15.0	0.25		10.10
20.0	0.33		9.75
25.0	0.42		9.30
30.0	0.50		8.78
35.0	0.58		8.50
40.0	0.67		8.27
45.0	0.75		7.86
50.0	0.83		7.61
55.0	0.92		7.34
60.0	1.00		7.25
65.0	1.08		6.89
70.0	1.17		6.85
75.0	1.25		6.64
80.0	1.33		6.41
85.0	1.42		6.29
90.0	1.50		5.99
95.0	1.58		5.87
100.0	1.67		5.84
105.0	1.75		5.72
110.0	1.83		5.52
115.0	1.92		5.44
120.0	2.00		5.41
125.0	2.08		5.30
130.0	2.17		5.25
135.0	2.25		5.17
140.0	2.33		4.93

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
59		145.0	2.42		5.00			
60		150.0	2.50		4.82			
61		155.0	2.58		4.80			
62		160.0	2.67		4.71			
63		165.0	2.75		4.50			
64		170.0	2.83		4.47			
65		175.0	2.92		4.41			
66		180.0	3.00		4.35			
67		185.0	3.08		4.49			
68		190.0	3.17		4.24			
69		195.0	3.25		4.16			
70		200.0	3.33		4.06			
71		205.0	3.42		4.04			
72		210.0	3.50		3.98			
73		215.0	3.58		4.02			
74		220.0	3.67		3.99			
75		225.0	3.75		3.90			
76		230.0	3.83		4.10			
77		235.0	3.92		3.97			
78		240.0	4.00		3.96			
79		245.0	4.08		4.19			
80		250.0	4.17		4.61			
81		255.0	4.25		4.46			
82		260.0	4.33		4.56			
83		265.0	4.42		4.54			
84		270.0	4.50		4.43			
85		275.0	4.58		4.58			
86		280.0	4.67		4.38			
87		285.0	4.75		4.46			
88		290.0	4.83		4.26			
89		295.0	4.92		4.34			
90		300.0	5.00		4.32			
91		305.0	5.08		4.30			
92		310.0	5.17		4.27			
93		315.0	5.25		4.20			
94		320.0	5.33		4.24			
95		325.0	5.42		4.26			
96		330.0	5.50		4.29			
97		335.0	5.58		4.21			
98		340.0	5.67		4.23			
99		345.0	5.75		4.11			
100		350.0	5.83		4.12			
101		355.0	5.92		4.24			
102		360.0	6.00		4.17			
103		365.0	6.08		4.19			
104		370.0	6.17		4.15			
105		375.0	6.25		4.02			
106		380.0	6.33		4.07			
107		385.0	6.42		3.99			
108		390.0	6.50		4.02			
109		395.0	6.58		4.13			
110		400.0	6.67		4.44			
111		405.0	6.75		5.17			
112		410.0	6.83		5.01			
113		415.0	6.92		5.01			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
114		420.0	7.00		4.87			
115		425.0	7.08		4.71			
116		430.0	7.17		4.72			
117		435.0	7.25		4.72			
118		440.0	7.33		4.53			
119		445.0	7.42		4.65			
120		450.0	7.50		4.60			
121		455.0	7.58		4.50			
122		460.0	7.67		4.50			
123		465.0	7.75		4.55			
124		470.0	7.83		4.51			
125		475.0	7.92		4.50			
126		480.0	8.00		4.45			
127		485.0	8.08		4.50			
128		490.0	8.17		4.53			
129		495.0	8.25		4.57			
130		500.0	8.33		4.46			
131		505.0	8.42		4.42			
132		510.0	8.50		4.44			
133		515.0	8.58		4.63			
134		520.0	8.67		4.46			
135		525.0	8.75		4.55			
136		530.0	8.83		4.50			
137		535.0	8.92		4.67			
138		540.0	9.00		4.65			
139		545.0	9.08		4.56			
140		550.0	9.17		4.61			
141		555.0	9.25		4.57			
142		560.0	9.33		4.65			
143		565.0	9.42		4.78			
144		570.0	9.50		4.72			
145		575.0	9.58		4.57			
146		580.0	9.67		4.48			
147		585.0	9.75		4.52			
148		590.0	9.83		4.71			
149		595.0	9.92		4.60			
150		600.0	10.00		4.63			
151		605.0	10.08		4.60			
152		610.0	10.17		4.67			
153		615.0	10.25		4.67			
154		620.0	10.33		4.59			
155		625.0	10.42		4.62			
156		630.0	10.50		4.60			
157		635.0	10.58		4.68			
158		640.0	10.67		4.64			
159		645.0	10.75		4.77			
160		650.0	10.83		4.80			
161		655.0	10.92		4.83			
162		660.0	11.00		4.78			
163		665.0	11.08		4.73			
164		670.0	11.17		4.70			
165		675.0	11.25		4.83			
166		680.0	11.33		4.79			
167		685.0	11.42		4.85			
168		690.0	11.50		4.86			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
169		695.0	11.58		4.74			
170		700.0	11.67		4.86			
171		705.0	11.75		4.78			
172		710.0	11.83		4.82			
173		715.0	11.92		4.90			
174		720.0	12.00		4.85			
175		725.0	12.08		4.83			
176		730.0	12.17		4.87			
177		735.0	12.25		4.96			
178		740.0	12.33		4.87			
179		745.0	12.42		4.93			
180		750.0	12.50		4.87			
181		755.0	12.58		4.80			
182		760.0	12.67		4.82			
183		765.0	12.75		4.89			
184		770.0	12.83		4.83			
185		775.0	12.92		4.74			
186		780.0	13.00		4.78			
187		785.0	13.08		4.78			
188		790.0	13.17		4.85			
189		795.0	13.25		4.78			
190		800.0	13.33		4.78			
191		805.0	13.42		4.75			
192		810.0	13.50		4.76			
193		815.0	13.58		4.73			
194		820.0	13.67		4.93			
195		825.0	13.75		4.71			
196		830.0	13.83		4.72			
197		835.0	13.92		4.80			
198		840.0	14.00		4.73			
199		845.0	14.08		4.73			
200		850.0	14.17		4.82			
201		855.0	14.25		4.84			
202		860.0	14.33		4.70			
203		865.0	14.42		4.79			
204		870.0	14.50		4.92			
205		875.0	14.58		4.82			
206		880.0	14.67		4.87			
207		885.0	14.75		4.83			
208		890.0	14.83		4.85			
209		895.0	14.92		4.92			
210		900.0	15.00		4.97			
211		905.0	15.08		4.79			
212		910.0	15.17		4.80			
213		915.0	15.25		4.87			
214		920.0	15.33		5.00			
215		925.0	15.42		4.87			
216		930.0	15.50		4.98			
217		935.0	15.58		4.97			
218		940.0	15.67		4.99			
219		945.0	15.75		4.93			
220		950.0	15.83		4.87			
221		955.0	15.92		4.85			
222		960.0	16.00		4.87			
223		965.0	16.08		4.86			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
224		970.0	16.17		4.74			
225		975.0	16.25		4.84			
226		980.0	16.33		4.90			
227		985.0	16.42		4.92			
228		990.0	16.50		4.92			
229		995.0	16.58		4.94			
230		1000.0	16.67		4.81			
231		1005.0	16.75		4.96			
232		1010.0	16.83		4.90			
233		1015.0	16.92		4.87			
234		1020.0	17.00		4.98			
235		1025.0	17.08		4.85			
236		1030.0	17.17		4.90			
237		1035.0	17.25		4.89			
238		1040.0	17.33		4.92			
239		1045.0	17.42		4.84			
240		1050.0	17.50		4.75			
241		1055.0	17.58		4.83			
242		1060.0	17.67		4.88			
243		1065.0	17.75		5.05			
244		1070.0	17.83		4.87			
245		1075.0	17.92		4.87			
246		1080.0	18.00		4.91			
247		1085.0	18.08		4.91			
248		1090.0	18.17		5.00			
249		1095.0	18.25		4.84			
250		1100.0	18.33		4.94			
251		1105.0	18.42		5.03			
252		1110.0	18.50		4.95			
253		1115.0	18.58		4.87			
254		1120.0	18.67		4.86			
255		1125.0	18.75		4.98			
256		1130.0	18.83		4.93			
257		1135.0	18.92		4.94			
258		1140.0	19.00		4.86			
259		1145.0	19.08		4.90			
260		1150.0	19.17		4.88			
261		1155.0	19.25		4.90			
262		1160.0	19.33		4.92			
263		1165.0	19.42		4.90			
264		1170.0	19.50		4.90			
265		1175.0	19.58		4.90			
266		1180.0	19.67		4.91			
267		1185.0	19.75		5.00			
268		1190.0	19.83		4.96			
269		1195.0	19.92		5.02			
270		1200.0	20.00		4.89			
271		1205.0	20.08		4.90			
272		1210.0	20.17		4.94			
273		1215.0	20.25		4.97			
274		1220.0	20.33		4.92			
275		1225.0	20.42		4.84			
276		1230.0	20.50		4.84			
277		1235.0	20.58		4.90			
278		1240.0	20.67		4.87			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
279		1245.0	20.75		4.92			
280		1250.0	20.83		4.91			
281		1255.0	20.92		4.92			
282		1260.0	21.00		4.92			
283		1265.0	21.08		5.04			
284		1270.0	21.17		5.04			
285		1275.0	21.25		4.95			
286		1280.0	21.33		4.85			
287		1285.0	21.42		5.02			
288		1290.0	21.50		5.07			
289		1295.0	21.58		5.06			
290		1300.0	21.67		4.90			
291		1305.0	21.75		4.94			
292		1310.0	21.83		4.94			
293		1315.0	21.92		5.04			
294		1320.0	22.00		4.95			
295		1325.0	22.08		4.93			
296		1330.0	22.17		4.99			
297		1335.0	22.25		4.92			
298		1340.0	22.33		4.95			
299		1345.0	22.42		4.91			
300		1350.0	22.50		4.90			
301		1355.0	22.58		5.04			
302		1360.0	22.67		4.96			
303		1365.0	22.75		5.00			
304		1370.0	22.83		4.90			
305		1375.0	22.92		5.00			
306		1380.0	23.00		4.93			
307		1385.0	23.08		5.09			
308		1390.0	23.17		4.96			
309		1395.0	23.25		4.88			
310		1400.0	23.33		4.93			
311		1405.0	23.42		4.92			
312		1410.0	23.50		5.01			
313		1415.0	23.58		5.09			
314		1420.0	23.67		5.05			
315		1425.0	23.75		4.92			
316		1430.0	23.83		4.85			
317		1435.0	23.92		5.06			
318		1440.0	24.00		5.11			
319		1445.0	24.08		5.01			
320		1450.0	24.17		5.04			
321		1455.0	24.25		4.96			
322		1460.0	24.33		4.97			
323		1465.0	24.42		5.08			
324		1470.0	24.50		5.00			
325		1475.0	24.58		5.01			
326		1480.0	24.67		4.97			
327		1485.0	24.75		5.00			
328		1490.0	24.83		4.96			
329		1495.0	24.92		4.82			
330		1500.0	25.00		4.93			
331		1505.0	25.08		5.00			
332		1510.0	25.17		4.95			
333		1515.0	25.25		4.84			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
334		1520.0	25.33		4.95			
335		1525.0	25.42		4.95			
336		1530.0	25.50		4.97			
337		1535.0	25.58		4.95			
338		1540.0	25.67		4.88			
339		1545.0	25.75		4.84			
340		1550.0	25.83		4.94			
341		1555.0	25.92		4.98			
342		1560.0	26.00		4.99			
343		1565.0	26.08		5.01			
344		1570.0	26.17		5.00			
345		1575.0	26.25		5.03			
346		1580.0	26.33		5.05			
347		1585.0	26.42		4.88			
348		1590.0	26.50		5.06			
349		1595.0	26.58		5.06			
350		1600.0	26.67		4.98			
351		1605.0	26.75		4.95			
352		1610.0	26.83		5.01			
353		1615.0	26.92		4.96			
354		1620.0	27.00		4.95			
355		1625.0	27.08		4.96			
356		1630.0	27.17		4.92			
357		1635.0	27.25		4.96			
358		1640.0	27.33		4.94			
359		1645.0	27.42		4.93			
360		1650.0	27.50		5.06			
361		1655.0	27.58		5.03			
362		1660.0	27.67		5.11			
363		1665.0	27.75		5.06			
364		1670.0	27.83		4.96			
365		1675.0	27.92		4.98			
366		1680.0	28.00		4.82			
367		1685.0	28.08		4.97			
368		1690.0	28.17		4.98			
369		1695.0	28.25		4.94			
370		1700.0	28.33		4.94			
371		1705.0	28.42		4.98			
372		1710.0	28.50		4.88			
373		1715.0	28.58		5.00			
374		1720.0	28.67		4.76			
375		1725.0	28.75		4.89			
376		1730.0	28.83		4.91			
377		1735.0	28.92		4.90			
378		1740.0	29.00		4.92			
379		1745.0	29.08		4.83			
380		1750.0	29.17		4.92			
381		1755.0	29.25		4.92			
382		1760.0	29.33		4.84			
383		1765.0	29.42		4.93			
384		1770.0	29.50		4.90			
385		1775.0	29.58		4.94			
386		1780.0	29.67		4.84			
387		1785.0	29.75		4.97			
388		1790.0	29.83		4.92			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
389		1795.0	29.92		5.00			
390		1800.0	30.00		4.94			
391		1805.0	30.08		4.96			
392		1810.0	30.17		4.97			
393		1815.0	30.25		4.92			
394		1820.0	30.33		4.93			
395		1825.0	30.42		4.90			
396		1830.0	30.50		4.88			
397		1835.0	30.58		4.97			
398		1840.0	30.67		5.08			
399		1845.0	30.75		5.07			
400		1850.0	30.83		5.02			
401		1855.0	30.92		5.04			
402		1860.0	31.00		5.02			
403		1865.0	31.08		5.00			
404		1870.0	31.17		5.01			
405		1875.0	31.25		5.04			
406		1880.0	31.33		5.02			
407		1885.0	31.42		5.00			
408		1890.0	31.50		5.13			
409		1895.0	31.58		5.08			
410		1900.0	31.67		5.13			
411		1905.0	31.75		5.10			
412		1910.0	31.83		5.06			
413		1915.0	31.92		5.12			
414		1920.0	32.00		5.14			
415		1925.0	32.08		5.04			
416		1930.0	32.17		5.24			
417		1935.0	32.25		5.20			
418		1940.0	32.33		5.11			
419		1945.0	32.42		5.10			
420		1950.0	32.50		5.07			
421		1955.0	32.58		5.19			
422		1960.0	32.67		5.14			
423		1965.0	32.75		5.12			
424		1970.0	32.83		5.12			
425		1975.0	32.92		5.07			
426		1980.0	33.00		5.18			
427		1985.0	33.08		5.26			
428		1990.0	33.17		5.22			
429		1995.0	33.25		5.05			
430		2000.0	33.33		5.17			
431		2005.0	33.42		5.13			
432		2010.0	33.50		5.17			
433		2015.0	33.58		5.23			
434		2020.0	33.67		5.21			
435		2025.0	33.75		5.14			
436		2030.0	33.83		5.34			
437		2035.0	33.92		5.32			
438		2040.0	34.00		5.17			
439		2045.0	34.08		5.14			
440		2050.0	34.17		5.25			
441		2055.0	34.25		5.21			
442		2060.0	34.33		5.20			
443		2065.0	34.42		5.19			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
444		2070.0	34.50		5.34			
445		2075.0	34.58		5.21			
446		2080.0	34.67		5.28			
447		2085.0	34.75		5.36			
448		2090.0	34.83		5.29			
449		2095.0	34.92		5.27			
450		2100.0	35.00		5.25			
451		2105.0	35.08		5.31			
452		2110.0	35.17		5.24			
453		2115.0	35.25		5.24			
454		2120.0	35.33		5.32			
455		2125.0	35.42		5.30			
456		2130.0	35.50		5.37			
457		2135.0	35.58		5.25			
458		2140.0	35.67		5.18			
459		2145.0	35.75		5.44			
460		2150.0	35.83		5.37			
461		2155.0	35.92		5.23			
462		2160.0	36.00		5.31			
463		2165.0	36.08		5.32			
464		2170.0	36.17		5.26			
465		2175.0	36.25		5.37			
466		2180.0	36.33		5.48			
467		2185.0	36.42		5.31			
468		2190.0	36.50		5.48			
469		2195.0	36.58		5.36			
470		2200.0	36.67		5.44			
471		2205.0	36.75		5.21			
472		2210.0	36.83		5.35			
473		2215.0	36.92		5.43			
474		2220.0	37.00		5.31			
475		2225.0	37.08		5.29			
476		2230.0	37.17		5.33			
477		2235.0	37.25		5.22			
478		2240.0	37.33		5.25			
479		2245.0	37.42		5.35			
480		2250.0	37.50		5.37			
481		2255.0	37.58		5.26			
482		2260.0	37.67		5.28			
483		2265.0	37.75		5.32			
484		2270.0	37.83		5.38			
485		2275.0	37.92		5.31			
486		2280.0	38.00		5.24			
487		2285.0	38.08		5.34			
488		2290.0	38.17		5.33			
489		2295.0	38.25		5.27			
490		2300.0	38.33		5.31			
491		2305.0	38.42		5.45			
492		2310.0	38.50		5.30			
493		2315.0	38.58		5.35			
494		2320.0	38.67		5.21			
495		2325.0	38.75		5.34			
496		2330.0	38.83		5.27			
497		2335.0	38.92		5.34			
498		2340.0	39.00		5.41			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	498			
28				Depth (m)	25.250			
29				Depth (ft)	82.840			
499		2345.0	39.08		5.29			
500		2350.0	39.17		5.28			
501		2355.0	39.25		5.43			
502		2360.0	39.33		5.34			
503		2365.0	39.42		5.36			
504		2370.0	39.50		5.31			
505		2375.0	39.58		5.44			
506		2380.0	39.67		5.36			
507		2385.0	39.75		5.38			
508		2390.0	39.83		5.41			
509		2395.0	39.92		5.43			
510		2400.0	40.00		5.44			
511		2405.0	40.08		5.50			
512		2410.0	40.17		5.39			
513		2415.0	40.25		5.39			
514		2420.0	40.33		5.53			
515		2425.0	40.42		5.28			
516		2430.0	40.50		5.53			
517		2435.0	40.58		5.56			
518		2440.0	40.67		5.49			
519		2445.0	40.75		5.48			
520		2450.0	40.83		5.54			
521		2455.0	40.92		5.38			
522		2460.0	41.00		5.46			
523		2465.0	41.08		5.43			
524		2470.0	41.17		5.48			
525		2475.0	41.25		5.39			
526		2480.0	41.33		5.44			
527		2485.0	41.42		5.43			
528								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-07.PP
Job Number:	15-53039
Sounding ID:	GC PT15-1D-07
Location:	Bridgeton Landfill
Sounding Date:	14-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 67
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	301	
Longest Trace - Depth (m):	26.850	
Longest Trace - Depth (ft):	88.089	
Longest Trace - Duration (s):	1500.0	
Longest Trace - Duration (min):	25.00	
Longest Trace - Duration (hrs):	0.417	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 301 / 26.850 / 88.089
0.0	0.00		9.49
5.0	0.08		9.23
10.0	0.17		9.19
15.0	0.25		9.19
20.0	0.33		9.12
25.0	0.42		9.11
30.0	0.50		9.04
35.0	0.58		8.97
40.0	0.67		8.86
45.0	0.75		8.92
50.0	0.83		8.80
55.0	0.92		8.78
60.0	1.00		8.75
65.0	1.08		8.65
70.0	1.17		8.62
75.0	1.25		8.68
80.0	1.33		8.59
85.0	1.42		8.52
90.0	1.50		8.55
95.0	1.58		8.54
100.0	1.67		8.51
105.0	1.75		8.48
110.0	1.83		8.36
115.0	1.92		8.34
120.0	2.00		8.29
125.0	2.08		8.39
130.0	2.17		8.33
135.0	2.25		8.25
140.0	2.33		8.26

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	301			
28				Depth (m)	26.850			
29				Depth (ft)	88.089			
59		145.0	2.42		8.22			
60		150.0	2.50		8.31			
61		155.0	2.58		8.16			
62		160.0	2.67		8.17			
63		165.0	2.75		8.18			
64		170.0	2.83		8.11			
65		175.0	2.92		8.12			
66		180.0	3.00		8.10			
67		185.0	3.08		8.09			
68		190.0	3.17		8.16			
69		195.0	3.25		8.00			
70		200.0	3.33		7.95			
71		205.0	3.42		8.12			
72		210.0	3.50		8.02			
73		215.0	3.58		7.94			
74		220.0	3.67		8.00			
75		225.0	3.75		7.93			
76		230.0	3.83		7.95			
77		235.0	3.92		7.91			
78		240.0	4.00		7.86			
79		245.0	4.08		7.80			
80		250.0	4.17		7.86			
81		255.0	4.25		7.86			
82		260.0	4.33		7.87			
83		265.0	4.42		7.82			
84		270.0	4.50		7.76			
85		275.0	4.58		7.74			
86		280.0	4.67		7.65			
87		285.0	4.75		7.66			
88		290.0	4.83		7.64			
89		295.0	4.92		7.64			
90		300.0	5.00		7.70			
91		305.0	5.08		7.68			
92		310.0	5.17		7.71			
93		315.0	5.25		7.65			
94		320.0	5.33		7.71			
95		325.0	5.42		7.52			
96		330.0	5.50		7.61			
97		335.0	5.58		7.51			
98		340.0	5.67		7.56			
99		345.0	5.75		7.50			
100		350.0	5.83		7.46			
101		355.0	5.92		7.45			
102		360.0	6.00		7.49			
103		365.0	6.08		7.47			
104		370.0	6.17		7.50			
105		375.0	6.25		7.51			
106		380.0	6.33		7.42			
107		385.0	6.42		7.36			
108		390.0	6.50		7.44			
109		395.0	6.58		7.54			
110		400.0	6.67		7.43			
111		405.0	6.75		7.38			
112		410.0	6.83		7.35			
113		415.0	6.92		7.43			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	301			
28				Depth (m)	26.850			
29				Depth (ft)	88.089			
114		420.0	7.00		7.41			
115		425.0	7.08		7.35			
116		430.0	7.17		7.36			
117		435.0	7.25		7.32			
118		440.0	7.33		7.37			
119		445.0	7.42		7.38			
120		450.0	7.50		7.34			
121		455.0	7.58		7.32			
122		460.0	7.67		7.31			
123		465.0	7.75		7.31			
124		470.0	7.83		7.26			
125		475.0	7.92		7.17			
126		480.0	8.00		7.24			
127		485.0	8.08		7.16			
128		490.0	8.17		7.29			
129		495.0	8.25		7.20			
130		500.0	8.33		7.22			
131		505.0	8.42		7.19			
132		510.0	8.50		7.23			
133		515.0	8.58		7.25			
134		520.0	8.67		7.12			
135		525.0	8.75		7.16			
136		530.0	8.83		7.18			
137		535.0	8.92		7.19			
138		540.0	9.00		7.13			
139		545.0	9.08		7.22			
140		550.0	9.17		7.20			
141		555.0	9.25		7.16			
142		560.0	9.33		7.19			
143		565.0	9.42		7.18			
144		570.0	9.50		7.12			
145		575.0	9.58		7.11			
146		580.0	9.67		7.12			
147		585.0	9.75		7.09			
148		590.0	9.83		7.12			
149		595.0	9.92		7.14			
150		600.0	10.00		7.14			
151		605.0	10.08		7.10			
152		610.0	10.17		7.10			
153		615.0	10.25		7.10			
154		620.0	10.33		7.13			
155		625.0	10.42		6.88			
156		630.0	10.50		6.98			
157		635.0	10.58		7.03			
158		640.0	10.67		6.99			
159		645.0	10.75		7.09			
160		650.0	10.83		7.05			
161		655.0	10.92		7.04			
162		660.0	11.00		7.11			
163		665.0	11.08		6.88			
164		670.0	11.17		7.03			
165		675.0	11.25		6.93			
166		680.0	11.33		7.05			
167		685.0	11.42		7.00			
168		690.0	11.50		6.97			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	301			
28				Depth (m)	26.850			
29				Depth (ft)	88.089			
169		695.0	11.58		6.88			
170		700.0	11.67		6.95			
171		705.0	11.75		7.05			
172		710.0	11.83		7.05			
173		715.0	11.92		6.95			
174		720.0	12.00		6.98			
175		725.0	12.08		7.05			
176		730.0	12.17		6.94			
177		735.0	12.25		7.01			
178		740.0	12.33		6.90			
179		745.0	12.42		6.91			
180		750.0	12.50		6.97			
181		755.0	12.58		6.88			
182		760.0	12.67		6.92			
183		765.0	12.75		6.80			
184		770.0	12.83		6.92			
185		775.0	12.92		6.96			
186		780.0	13.00		6.94			
187		785.0	13.08		6.89			
188		790.0	13.17		6.93			
189		795.0	13.25		6.95			
190		800.0	13.33		6.90			
191		805.0	13.42		6.93			
192		810.0	13.50		6.92			
193		815.0	13.58		6.92			
194		820.0	13.67		6.87			
195		825.0	13.75		6.92			
196		830.0	13.83		6.88			
197		835.0	13.92		6.88			
198		840.0	14.00		6.89			
199		845.0	14.08		6.88			
200		850.0	14.17		6.88			
201		855.0	14.25		6.88			
202		860.0	14.33		6.85			
203		865.0	14.42		6.83			
204		870.0	14.50		6.82			
205		875.0	14.58		6.86			
206		880.0	14.67		6.82			
207		885.0	14.75		6.86			
208		890.0	14.83		6.86			
209		895.0	14.92		6.95			
210		900.0	15.00		6.84			
211		905.0	15.08		6.73			
212		910.0	15.17		6.88			
213		915.0	15.25		6.80			
214		920.0	15.33		6.71			
215		925.0	15.42		6.84			
216		930.0	15.50		6.86			
217		935.0	15.58		6.78			
218		940.0	15.67		6.80			
219		945.0	15.75		6.75			
220		950.0	15.83		6.80			
221		955.0	15.92		6.78			
222		960.0	16.00		6.82			
223		965.0	16.08		6.79			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	301			
28				Depth (m)	26.850			
29				Depth (ft)	88.089			
224		970.0	16.17		6.82			
225		975.0	16.25		7.00			
226		980.0	16.33		6.79			
227		985.0	16.42		6.76			
228		990.0	16.50		6.73			
229		995.0	16.58		6.80			
230		1000.0	16.67		6.67			
231		1005.0	16.75		6.73			
232		1010.0	16.83		6.77			
233		1015.0	16.92		6.76			
234		1020.0	17.00		6.74			
235		1025.0	17.08		6.82			
236		1030.0	17.17		6.79			
237		1035.0	17.25		6.75			
238		1040.0	17.33		6.76			
239		1045.0	17.42		6.76			
240		1050.0	17.50		6.75			
241		1055.0	17.58		6.82			
242		1060.0	17.67		6.79			
243		1065.0	17.75		6.72			
244		1070.0	17.83		6.79			
245		1075.0	17.92		6.73			
246		1080.0	18.00		6.70			
247		1085.0	18.08		6.75			
248		1090.0	18.17		6.75			
249		1095.0	18.25		6.70			
250		1100.0	18.33		6.66			
251		1105.0	18.42		6.79			
252		1110.0	18.50		6.66			
253		1115.0	18.58		6.70			
254		1120.0	18.67		6.73			
255		1125.0	18.75		6.86			
256		1130.0	18.83		6.71			
257		1135.0	18.92		6.73			
258		1140.0	19.00		6.73			
259		1145.0	19.08		6.70			
260		1150.0	19.17		6.61			
261		1155.0	19.25		6.64			
262		1160.0	19.33		6.73			
263		1165.0	19.42		6.72			
264		1170.0	19.50		6.65			
265		1175.0	19.58		6.63			
266		1180.0	19.67		6.68			
267		1185.0	19.75		6.68			
268		1190.0	19.83		6.65			
269		1195.0	19.92		6.69			
270		1200.0	20.00		6.62			
271		1205.0	20.08		6.64			
272		1210.0	20.17		6.68			
273		1215.0	20.25		6.67			
274		1220.0	20.33		6.72			
275		1225.0	20.42		6.64			
276		1230.0	20.50		6.70			
277		1235.0	20.58		6.67			
278		1240.0	20.67		6.59			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	301			
28				Depth (m)	26.850			
29				Depth (ft)	88.089			
279		1245.0	20.75		6.59			
280		1250.0	20.83		6.68			
281		1255.0	20.92		6.67			
282		1260.0	21.00		6.58			
283		1265.0	21.08		6.64			
284		1270.0	21.17		6.66			
285		1275.0	21.25		6.69			
286		1280.0	21.33		6.58			
287		1285.0	21.42		6.65			
288		1290.0	21.50		6.63			
289		1295.0	21.58		6.59			
290		1300.0	21.67		6.60			
291		1305.0	21.75		6.57			
292		1310.0	21.83		6.63			
293		1315.0	21.92		6.63			
294		1320.0	22.00		6.60			
295		1325.0	22.08		6.66			
296		1330.0	22.17		6.62			
297		1335.0	22.25		6.63			
298		1340.0	22.33		6.56			
299		1345.0	22.42		6.60			
300		1350.0	22.50		6.66			
301		1355.0	22.58		6.73			
302		1360.0	22.67		6.65			
303		1365.0	22.75		6.60			
304		1370.0	22.83		6.58			
305		1375.0	22.92		6.64			
306		1380.0	23.00		6.56			
307		1385.0	23.08		6.59			
308		1390.0	23.17		6.61			
309		1395.0	23.25		6.60			
310		1400.0	23.33		6.57			
311		1405.0	23.42		6.64			
312		1410.0	23.50		6.59			
313		1415.0	23.58		6.61			
314		1420.0	23.67		6.63			
315		1425.0	23.75		6.63			
316		1430.0	23.83		6.67			
317		1435.0	23.92		6.60			
318		1440.0	24.00		6.55			
319		1445.0	24.08		6.58			
320		1450.0	24.17		6.64			
321		1455.0	24.25		6.64			
322		1460.0	24.33		6.58			
323		1465.0	24.42		6.65			
324		1470.0	24.50		6.58			
325		1475.0	24.58		6.65			
326		1480.0	24.67		6.54			
327		1485.0	24.75		6.50			
328		1490.0	24.83		6.58			
329		1495.0	24.92		6.52			
330		1500.0	25.00		6.54			
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ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-08A.P
Job Number:	15-53039
Sounding ID:	GCPT15-1D-08A
Location:	Bridgeton Landfill
Sounding Date:	18-May-2015
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 51
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	104
Longest Trace - Depth (m):	24.300
Longest Trace - Depth (ft):	79.723
Longest Trace - Duration (s):	515.0
Longest Trace - Duration (min):	8.58
Longest Trace - Duration (hrs):	0.143
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 104 / 24.300 / 79.723
0.0	0.00		168.57
5.0	0.08		145.89
10.0	0.17		152.38
15.0	0.25		154.99
20.0	0.33		151.44
25.0	0.42		150.14
30.0	0.50		148.12
35.0	0.58		145.46
40.0	0.67		143.31
45.0	0.75		141.15
50.0	0.83		138.31
55.0	0.92		135.50
60.0	1.00		133.27
65.0	1.08		131.31
70.0	1.17		129.65
75.0	1.25		126.94
80.0	1.33		125.29
85.0	1.42		122.92
90.0	1.50		120.51
95.0	1.58		118.94
100.0	1.67		116.31
105.0	1.75		115.06
110.0	1.83		113.48
115.0	1.92		111.38
120.0	2.00		109.31
125.0	2.08		108.49
130.0	2.17		106.58
135.0	2.25		105.22
140.0	2.33		104.04

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	104			
28				Depth (m)	24.300			
29				Depth (ft)	79.723			
59		145.0	2.42		102.37			
60		150.0	2.50		100.50			
61		155.0	2.58		100.07			
62		160.0	2.67		97.80			
63		165.0	2.75		96.92			
64		170.0	2.83		95.52			
65		175.0	2.92		93.94			
66		180.0	3.00		93.33			
67		185.0	3.08		91.55			
68		190.0	3.17		90.62			
69		195.0	3.25		89.72			
70		200.0	3.33		88.41			
71		205.0	3.42		87.45			
72		210.0	3.50		86.86			
73		215.0	3.58		85.83			
74		220.0	3.67		85.06			
75		225.0	3.75		83.88			
76		230.0	3.83		83.53			
77		235.0	3.92		82.08			
78		240.0	4.00		81.49			
79		245.0	4.08		80.50			
80		250.0	4.17		79.65			
81		255.0	4.25		79.76			
82		260.0	4.33		78.40			
83		265.0	4.42		77.25			
84		270.0	4.50		76.61			
85		275.0	4.58		75.72			
86		280.0	4.67		75.27			
87		285.0	4.75		74.51			
88		290.0	4.83		73.67			
89		295.0	4.92		72.97			
90		300.0	5.00		72.34			
91		305.0	5.08		71.71			
92		310.0	5.17		70.91			
93		315.0	5.25		70.10			
94		320.0	5.33		69.44			
95		325.0	5.42		69.17			
96		330.0	5.50		68.54			
97		335.0	5.58		67.80			
98		340.0	5.67		67.05			
99		345.0	5.75		66.61			
100		350.0	5.83		66.10			
101		355.0	5.92		65.41			
102		360.0	6.00		64.90			
103		365.0	6.08		64.58			
104		370.0	6.17		63.84			
105		375.0	6.25		63.04			
106		380.0	6.33		62.73			
107		385.0	6.42		62.26			
108		390.0	6.50		61.75			
109		395.0	6.58		61.30			
110		400.0	6.67		60.71			
111		405.0	6.75		60.40			
112		410.0	6.83		59.55			
113		415.0	6.92		59.04			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	104			
28				Depth (m)	24.300			
29				Depth (ft)	79.723			
114		420.0	7.00		58.73			
115		425.0	7.08		58.14			
116		430.0	7.17		57.73			
117		435.0	7.25		57.24			
118		440.0	7.33		56.72			
119		445.0	7.42		56.52			
120		450.0	7.50		55.90			
121		455.0	7.58		55.37			
122		460.0	7.67		55.13			
123		465.0	7.75		54.74			
124		470.0	7.83		54.49			
125		475.0	7.92		54.20			
126		480.0	8.00		53.72			
127		485.0	8.08		53.30			
128		490.0	8.17		52.88			
129		495.0	8.25		52.59			
130		500.0	8.33		52.25			
131		505.0	8.42		52.01			
132		510.0	8.50		51.62			
133		515.0	8.58		51.22			
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ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-09A.P
Job Number:	15-53039
Sounding ID:	GCPT15-1D-09A
Location:	Bridgeton Landfill
Sounding Date:	14-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 37
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	110	
Longest Trace - Depth (m):	23.850	
Longest Trace - Depth (ft):	78.247	
Longest Trace - Duration (s):	545.0	
Longest Trace - Duration (min):	9.08	
Longest Trace - Duration (hrs):	0.151	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 110 / 23.850 / 78.247
0.0	0.00		4.22
5.0	0.08		2.82
10.0	0.17		3.66
15.0	0.25		3.92
20.0	0.33		3.96
25.0	0.42		3.85
30.0	0.50		3.90
35.0	0.58		3.90
40.0	0.67		3.87
45.0	0.75		3.84
50.0	0.83		3.89
55.0	0.92		3.92
60.0	1.00		3.83
65.0	1.08		3.87
70.0	1.17		3.89
75.0	1.25		3.87
80.0	1.33		3.80
85.0	1.42		3.94
90.0	1.50		3.93
95.0	1.58		3.90
100.0	1.67		3.94
105.0	1.75		3.89
110.0	1.83		3.97
115.0	1.92		3.92
120.0	2.00		3.98
125.0	2.08		3.93
130.0	2.17		3.97
135.0	2.25		3.97
140.0	2.33		3.97

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	110			
28				Depth (m)	23.850			
29				Depth (ft)	78.247			
59		145.0	2.42		3.97			
60		150.0	2.50		3.99			
61		155.0	2.58		3.97			
62		160.0	2.67		4.04			
63		165.0	2.75		3.98			
64		170.0	2.83		3.94			
65		175.0	2.92		4.00			
66		180.0	3.00		3.91			
67		185.0	3.08		3.96			
68		190.0	3.17		4.03			
69		195.0	3.25		4.10			
70		200.0	3.33		4.08			
71		205.0	3.42		4.07			
72		210.0	3.50		4.04			
73		215.0	3.58		4.08			
74		220.0	3.67		4.07			
75		225.0	3.75		4.07			
76		230.0	3.83		3.98			
77		235.0	3.92		4.07			
78		240.0	4.00		4.02			
79		245.0	4.08		4.01			
80		250.0	4.17		4.04			
81		255.0	4.25		3.98			
82		260.0	4.33		4.07			
83		265.0	4.42		4.04			
84		270.0	4.50		4.10			
85		275.0	4.58		4.02			
86		280.0	4.67		3.99			
87		285.0	4.75		4.14			
88		290.0	4.83		4.07			
89		295.0	4.92		4.09			
90		300.0	5.00		3.91			
91		305.0	5.08		4.14			
92		310.0	5.17		4.14			
93		315.0	5.25		4.04			
94		320.0	5.33		4.07			
95		325.0	5.42		4.13			
96		330.0	5.50		4.03			
97		335.0	5.58		4.12			
98		340.0	5.67		4.18			
99		345.0	5.75		4.06			
100		350.0	5.83		4.07			
101		355.0	5.92		4.17			
102		360.0	6.00		4.09			
103		365.0	6.08		4.16			
104		370.0	6.17		4.15			
105		375.0	6.25		4.12			
106		380.0	6.33		4.08			
107		385.0	6.42		4.13			
108		390.0	6.50		4.11			
109		395.0	6.58		4.04			
110		400.0	6.67		4.10			
111		405.0	6.75		4.05			
112		410.0	6.83		4.19			
113		415.0	6.92		4.09			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	110			
28				Depth (m)	23.850			
29				Depth (ft)	78.247			
114		420.0	7.00		4.15			
115		425.0	7.08		4.14			
116		430.0	7.17		4.12			
117		435.0	7.25		4.21			
118		440.0	7.33		4.10			
119		445.0	7.42		4.17			
120		450.0	7.50		4.19			
121		455.0	7.58		4.15			
122		460.0	7.67		4.14			
123		465.0	7.75		4.19			
124		470.0	7.83		4.17			
125		475.0	7.92		4.06			
126		480.0	8.00		4.12			
127		485.0	8.08		4.16			
128		490.0	8.17		4.18			
129		495.0	8.25		4.13			
130		500.0	8.33		4.08			
131		505.0	8.42		4.16			
132		510.0	8.50		4.16			
133		515.0	8.58		4.07			
134		520.0	8.67		4.12			
135		525.0	8.75		4.14			
136		530.0	8.83		4.14			
137		535.0	8.92		4.11			
138		540.0	9.00		4.12			
139		545.0	9.08		4.17			
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ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-09.PF
Job Number:	15-53039
Sounding ID:	GCPT15-1D-09
Location:	Bridgeton Landfill
Sounding Date:	14-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 65
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	83	
Longest Trace - Depth (m):	21.550	
Longest Trace - Depth (ft):	70.701	
Longest Trace - Duration (s):	410.0	
Longest Trace - Duration (min):	6.83	
Longest Trace - Duration (hrs):	0.114	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 83 / 21.550 / 70.701
0.0	0.00		5.93
5.0	0.08		4.44
10.0	0.17		4.71
15.0	0.25		4.72
20.0	0.33		4.61
25.0	0.42		4.66
30.0	0.50		4.54
35.0	0.58		4.37
40.0	0.67		4.31
45.0	0.75		4.21
50.0	0.83		4.20
55.0	0.92		4.11
60.0	1.00		4.04
65.0	1.08		3.96
70.0	1.17		3.86
75.0	1.25		3.79
80.0	1.33		3.76
85.0	1.42		3.66
90.0	1.50		3.76
95.0	1.58		3.58
100.0	1.67		3.44
105.0	1.75		3.42
110.0	1.83		3.39
115.0	1.92		3.39
120.0	2.00		3.38
125.0	2.08		3.54
130.0	2.17		3.49
135.0	2.25		3.63
140.0	2.33		4.46

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	83			
28				Depth (m)	21.550			
29				Depth (ft)	70.701			
59		145.0	2.42		4.12			
60		150.0	2.50		4.57			
61		155.0	2.58		4.00			
62		160.0	2.67		4.12			
63		165.0	2.75		3.98			
64		170.0	2.83		4.51			
65		175.0	2.92		4.08			
66		180.0	3.00		4.26			
67		185.0	3.08		4.18			
68		190.0	3.17		4.47			
69		195.0	3.25		4.45			
70		200.0	3.33		3.99			
71		205.0	3.42		4.33			
72		210.0	3.50		4.18			
73		215.0	3.58		4.42			
74		220.0	3.67		4.59			
75		225.0	3.75		4.14			
76		230.0	3.83		4.61			
77		235.0	3.92		4.50			
78		240.0	4.00		4.36			
79		245.0	4.08		4.21			
80		250.0	4.17		4.10			
81		255.0	4.25		4.67			
82		260.0	4.33		4.40			
83		265.0	4.42		4.55			
84		270.0	4.50		4.64			
85		275.0	4.58		4.78			
86		280.0	4.67		4.71			
87		285.0	4.75		4.40			
88		290.0	4.83		4.34			
89		295.0	4.92		4.74			
90		300.0	5.00		4.70			
91		305.0	5.08		4.59			
92		310.0	5.17		4.58			
93		315.0	5.25		4.66			
94		320.0	5.33		4.83			
95		325.0	5.42		4.54			
96		330.0	5.50		4.68			
97		335.0	5.58		4.77			
98		340.0	5.67		4.47			
99		345.0	5.75		4.79			
100		350.0	5.83		4.88			
101		355.0	5.92		4.55			
102		360.0	6.00		4.73			
103		365.0	6.08		4.76			
104		370.0	6.17		4.42			
105		375.0	6.25		4.66			
106		380.0	6.33		4.72			
107		385.0	6.42		4.80			
108		390.0	6.50		4.58			
109		395.0	6.58		4.75			
110		400.0	6.67		4.79			
111		405.0	6.75		4.67			
112		410.0	6.83		4.69			
113								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-10.PF
Job Number:	15-53039
Sounding ID:	GCPT15-1D-10
Location:	Bridgeton Landfill
Sounding Date:	16-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 32
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	93	
Longest Trace - Depth (m):	23.700	
Longest Trace - Depth (ft):	77.755	
Longest Trace - Duration (s):	460.0	
Longest Trace - Duration (min):	7.67	
Longest Trace - Duration (hrs):	0.128	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 93 / 23.700 / 77.755
0.0	0.00		16.52
5.0	0.08		14.13
10.0	0.17		14.81
15.0	0.25		14.66
20.0	0.33		14.40
25.0	0.42		13.91
30.0	0.50		13.42
35.0	0.58		12.95
40.0	0.67		12.54
45.0	0.75		12.08
50.0	0.83		11.63
55.0	0.92		11.21
60.0	1.00		10.90
65.0	1.08		10.60
70.0	1.17		10.39
75.0	1.25		10.10
80.0	1.33		9.80
85.0	1.42		9.71
90.0	1.50		9.51
95.0	1.58		9.36
100.0	1.67		9.30
105.0	1.75		9.15
110.0	1.83		9.01
115.0	1.92		8.76
120.0	2.00		8.75
125.0	2.08		8.68
130.0	2.17		8.64
135.0	2.25		8.73
140.0	2.33		9.17

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	93			
28				Depth (m)	23.700			
29				Depth (ft)	77.755			
59		145.0	2.42		9.01			
60		150.0	2.50		9.14			
61		155.0	2.58		8.93			
62		160.0	2.67		8.89			
63		165.0	2.75		8.87			
64		170.0	2.83		8.71			
65		175.0	2.92		8.71			
66		180.0	3.00		8.30			
67		185.0	3.08		8.22			
68		190.0	3.17		8.13			
69		195.0	3.25		8.07			
70		200.0	3.33		8.13			
71		205.0	3.42		8.24			
72		210.0	3.50		8.15			
73		215.0	3.58		8.01			
74		220.0	3.67		8.10			
75		225.0	3.75		9.11			
76		230.0	3.83		8.67			
77		235.0	3.92		8.54			
78		240.0	4.00		8.74			
79		245.0	4.08		8.37			
80		250.0	4.17		8.58			
81		255.0	4.25		8.93			
82		260.0	4.33		8.80			
83		265.0	4.42		8.44			
84		270.0	4.50		8.35			
85		275.0	4.58		8.66			
86		280.0	4.67		8.84			
87		285.0	4.75		8.46			
88		290.0	4.83		8.55			
89		295.0	4.92		8.40			
90		300.0	5.00		8.30			
91		305.0	5.08		8.44			
92		310.0	5.17		8.28			
93		315.0	5.25		8.39			
94		320.0	5.33		8.41			
95		325.0	5.42		8.17			
96		330.0	5.50		8.54			
97		335.0	5.58		8.33			
98		340.0	5.67		8.21			
99		345.0	5.75		8.10			
100		350.0	5.83		8.45			
101		355.0	5.92		8.40			
102		360.0	6.00		8.27			
103		365.0	6.08		8.17			
104		370.0	6.17		8.37			
105		375.0	6.25		8.34			
106		380.0	6.33		8.35			
107		385.0	6.42		8.21			
108		390.0	6.50		8.12			
109		395.0	6.58		8.23			
110		400.0	6.67		8.15			
111		405.0	6.75		8.04			
112		410.0	6.83		8.07			
113		415.0	6.92		7.93			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	93			
28				Depth (m)	23.700			
29				Depth (ft)	77.755			
114		420.0	7.00		8.09			
115		425.0	7.08		8.68			
116		430.0	7.17		8.34			
117		435.0	7.25		8.43			
118		440.0	7.33		8.24			
119		445.0	7.42		8.23			
120		450.0	7.50		8.45			
121		455.0	7.58		8.36			
122		460.0	7.67		8.25			
123								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-11A.P
Job Number:	15-53039
Sounding ID:	GCPT15-1D-11A
Location:	Bridgeton Landfill
Sounding Date:	18-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 81
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	89	
Longest Trace - Depth (m):	26.600	
Longest Trace - Depth (ft):	87.269	
Longest Trace - Duration (s):	440.0	
Longest Trace - Duration (min):	7.33	
Longest Trace - Duration (hrs):	0.122	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 89 / 26.600 / 87.269
0.0	0.00		7.17
5.0	0.08		1.12
10.0	0.17		3.09
15.0	0.25		3.53
20.0	0.33		3.64
25.0	0.42		3.90
30.0	0.50		3.74
35.0	0.58		3.62
40.0	0.67		3.55
45.0	0.75		3.81
50.0	0.83		3.74
55.0	0.92		3.62
60.0	1.00		3.70
65.0	1.08		3.86
70.0	1.17		3.85
75.0	1.25		3.73
80.0	1.33		3.70
85.0	1.42		3.58
90.0	1.50		3.61
95.0	1.58		3.52
100.0	1.67		3.51
105.0	1.75		3.63
110.0	1.83		3.68
115.0	1.92		3.51
120.0	2.00		3.63
125.0	2.08		3.58
130.0	2.17		3.59
135.0	2.25		3.56
140.0	2.33		3.58

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	89			
28				Depth (m)	26.600			
29				Depth (ft)	87.269			
59		145.0	2.42		3.51			
60		150.0	2.50		3.68			
61		155.0	2.58		3.51			
62		160.0	2.67		3.62			
63		165.0	2.75		3.64			
64		170.0	2.83		3.65			
65		175.0	2.92		3.45			
66		180.0	3.00		3.64			
67		185.0	3.08		3.48			
68		190.0	3.17		3.38			
69		195.0	3.25		3.59			
70		200.0	3.33		3.57			
71		205.0	3.42		3.42			
72		210.0	3.50		3.50			
73		215.0	3.58		3.51			
74		220.0	3.67		3.42			
75		225.0	3.75		3.51			
76		230.0	3.83		3.46			
77		235.0	3.92		3.64			
78		240.0	4.00		3.52			
79		245.0	4.08		3.36			
80		250.0	4.17		3.56			
81		255.0	4.25		3.50			
82		260.0	4.33		3.32			
83		265.0	4.42		3.43			
84		270.0	4.50		3.54			
85		275.0	4.58		3.24			
86		280.0	4.67		3.42			
87		285.0	4.75		3.36			
88		290.0	4.83		3.25			
89		295.0	4.92		3.27			
90		300.0	5.00		3.31			
91		305.0	5.08		3.51			
92		310.0	5.17		3.14			
93		315.0	5.25		3.37			
94		320.0	5.33		3.41			
95		325.0	5.42		3.40			
96		330.0	5.50		3.30			
97		335.0	5.58		3.32			
98		340.0	5.67		3.55			
99		345.0	5.75		3.23			
100		350.0	5.83		3.36			
101		355.0	5.92		3.48			
102		360.0	6.00		3.29			
103		365.0	6.08		3.28			
104		370.0	6.17		3.29			
105		375.0	6.25		3.43			
106		380.0	6.33		3.38			
107		385.0	6.42		3.29			
108		390.0	6.50		3.19			
109		395.0	6.58		3.34			
110		400.0	6.67		3.41			
111		405.0	6.75		3.31			
112		410.0	6.83		3.26			
113		415.0	6.92		3.36			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	89			
28				Depth (m)	26.600			
29				Depth (ft)	87.269			
114		420.0	7.00		3.37			
115		425.0	7.08		3.41			
116		430.0	7.17		3.19			
117		435.0	7.25		3.33			
118		440.0	7.33		3.39			
119								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-11B.P
Job Number:	15-53039
Sounding ID:	GCPT15-1D-11B
Location:	Bridgeton Landfill
Sounding Date:	18-May-2015
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 39
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	89
Longest Trace - Depth (m):	26.600
Longest Trace - Depth (ft):	87.269
Longest Trace - Duration (s):	440.0
Longest Trace - Duration (min):	7.33
Longest Trace - Duration (hrs):	0.122
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 89 / 26.600 / 87.269
0.0	0.00		7.17
5.0	0.08		1.12
10.0	0.17		3.09
15.0	0.25		3.53
20.0	0.33		3.64
25.0	0.42		3.90
30.0	0.50		3.74
35.0	0.58		3.62
40.0	0.67		3.55
45.0	0.75		3.81
50.0	0.83		3.74
55.0	0.92		3.62
60.0	1.00		3.70
65.0	1.08		3.86
70.0	1.17		3.85
75.0	1.25		3.73
80.0	1.33		3.70
85.0	1.42		3.58
90.0	1.50		3.61
95.0	1.58		3.52
100.0	1.67		3.51
105.0	1.75		3.63
110.0	1.83		3.68
115.0	1.92		3.51
120.0	2.00		3.63
125.0	2.08		3.58
130.0	2.17		3.59
135.0	2.25		3.56
140.0	2.33		3.58

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	89			
28				Depth (m)	26.600			
29				Depth (ft)	87.269			
59		145.0	2.42		3.51			
60		150.0	2.50		3.68			
61		155.0	2.58		3.51			
62		160.0	2.67		3.62			
63		165.0	2.75		3.64			
64		170.0	2.83		3.65			
65		175.0	2.92		3.45			
66		180.0	3.00		3.64			
67		185.0	3.08		3.48			
68		190.0	3.17		3.38			
69		195.0	3.25		3.59			
70		200.0	3.33		3.57			
71		205.0	3.42		3.42			
72		210.0	3.50		3.50			
73		215.0	3.58		3.51			
74		220.0	3.67		3.42			
75		225.0	3.75		3.51			
76		230.0	3.83		3.46			
77		235.0	3.92		3.64			
78		240.0	4.00		3.52			
79		245.0	4.08		3.36			
80		250.0	4.17		3.56			
81		255.0	4.25		3.50			
82		260.0	4.33		3.32			
83		265.0	4.42		3.43			
84		270.0	4.50		3.54			
85		275.0	4.58		3.24			
86		280.0	4.67		3.42			
87		285.0	4.75		3.36			
88		290.0	4.83		3.25			
89		295.0	4.92		3.27			
90		300.0	5.00		3.31			
91		305.0	5.08		3.51			
92		310.0	5.17		3.14			
93		315.0	5.25		3.37			
94		320.0	5.33		3.41			
95		325.0	5.42		3.40			
96		330.0	5.50		3.30			
97		335.0	5.58		3.32			
98		340.0	5.67		3.55			
99		345.0	5.75		3.23			
100		350.0	5.83		3.36			
101		355.0	5.92		3.48			
102		360.0	6.00		3.29			
103		365.0	6.08		3.28			
104		370.0	6.17		3.29			
105		375.0	6.25		3.43			
106		380.0	6.33		3.38			
107		385.0	6.42		3.29			
108		390.0	6.50		3.19			
109		395.0	6.58		3.34			
110		400.0	6.67		3.41			
111		405.0	6.75		3.31			
112		410.0	6.83		3.26			
113		415.0	6.92		3.36			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	89			
28				Depth (m)	26.600			
29				Depth (ft)	87.269			
114		420.0	7.00		3.37			
115		425.0	7.08		3.41			
116		430.0	7.17		3.19			
117		435.0	7.25		3.33			
118		440.0	7.33		3.39			
119								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-12A.P
Job Number:	15-53039
Sounding ID:	GCPT15-1D-12A
Location:	Bridgeton Landfill
Sounding Date:	16-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of 33
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	1	
Longest Trace - Points:	53	
Longest Trace - Depth (m):	25.950	
Longest Trace - Depth (ft):	85.137	
Longest Trace - Duration (s):	260.0	
Longest Trace - Duration (min):	4.33	
Longest Trace - Duration (hrs):	0.072	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 53 / 25.950 / 85.137
0.0	0.00		97.11
5.0	0.08		9.37
10.0	0.17		9.33
15.0	0.25		8.83
20.0	0.33		8.32
25.0	0.42		7.98
30.0	0.50		7.47
35.0	0.58		7.10
40.0	0.67		6.72
45.0	0.75		6.41
50.0	0.83		5.93
55.0	0.92		5.82
60.0	1.00		5.51
65.0	1.08		5.30
70.0	1.17		5.00
75.0	1.25		5.00
80.0	1.33		4.74
85.0	1.42		4.71
90.0	1.50		4.65
95.0	1.58		4.49
100.0	1.67		4.49
105.0	1.75		4.41
110.0	1.83		4.40
115.0	1.92		4.47
120.0	2.00		4.48
125.0	2.08		4.56
130.0	2.17		4.49
135.0	2.25		4.55
140.0	2.33		4.56

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	53			
28				Depth (m)	25.950			
29				Depth (ft)	85.137			
59		145.0	2.42		4.58			
60		150.0	2.50		4.67			
61		155.0	2.58		4.60			
62		160.0	2.67		4.65			
63		165.0	2.75		4.74			
64		170.0	2.83		4.86			
65		175.0	2.92		4.88			
66		180.0	3.00		4.96			
67		185.0	3.08		4.97			
68		190.0	3.17		4.99			
69		195.0	3.25		5.12			
70		200.0	3.33		5.25			
71		205.0	3.42		5.34			
72		210.0	3.50		5.40			
73		215.0	3.58		5.45			
74		220.0	3.67		5.53			
75		225.0	3.75		5.56			
76		230.0	3.83		5.61			
77		235.0	3.92		5.71			
78		240.0	4.00		5.81			
79		245.0	4.08		5.80			
80		250.0	4.17		5.87			
81		255.0	4.25		5.97			
82		260.0	4.33		5.92			
83								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-12.PP
Job Number:	15-53039
Sounding ID:	GCPT15-1D-12
Location:	Bridgeton Landfill
Sounding Date:	16-May-2015
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 44
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	53
Longest Trace - Depth (m):	25.950
Longest Trace - Depth (ft):	85.137
Longest Trace - Duration (s):	260.0
Longest Trace - Duration (min):	4.33
Longest Trace - Duration (hrs):	0.072
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 53 / 25.950 / 85.137
0.0	0.00		97.11
5.0	0.08		9.37
10.0	0.17		9.33
15.0	0.25		8.83
20.0	0.33		8.32
25.0	0.42		7.98
30.0	0.50		7.47
35.0	0.58		7.10
40.0	0.67		6.72
45.0	0.75		6.41
50.0	0.83		5.93
55.0	0.92		5.82
60.0	1.00		5.51
65.0	1.08		5.30
70.0	1.17		5.00
75.0	1.25		5.00
80.0	1.33		4.74
85.0	1.42		4.71
90.0	1.50		4.65
95.0	1.58		4.49
100.0	1.67		4.49
105.0	1.75		4.41
110.0	1.83		4.40
115.0	1.92		4.47
120.0	2.00		4.48
125.0	2.08		4.56
130.0	2.17		4.49
135.0	2.25		4.55
140.0	2.33		4.56

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	53			
28				Depth (m)	25.950			
29				Depth (ft)	85.137			
59		145.0	2.42		4.58			
60		150.0	2.50		4.67			
61		155.0	2.58		4.60			
62		160.0	2.67		4.65			
63		165.0	2.75		4.74			
64		170.0	2.83		4.86			
65		175.0	2.92		4.88			
66		180.0	3.00		4.96			
67		185.0	3.08		4.97			
68		190.0	3.17		4.99			
69		195.0	3.25		5.12			
70		200.0	3.33		5.25			
71		205.0	3.42		5.34			
72		210.0	3.50		5.40			
73		215.0	3.58		5.45			
74		220.0	3.67		5.53			
75		225.0	3.75		5.56			
76		230.0	3.83		5.61			
77		235.0	3.92		5.71			
78		240.0	4.00		5.81			
79		245.0	4.08		5.80			
80		250.0	4.17		5.87			
81		255.0	4.25		5.97			
82		260.0	4.33		5.92			
83								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-14.PP
Job Number:	15-53039
Sounding ID:	GCPT15-1D-14
Location:	Bridgeton Landfill
Sounding Date:	13-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	1	Of	74
Exceeding Duration in Seconds:	90.0		
Longest Trace - Number:	1		
Longest Trace - Points:	298		
Longest Trace - Depth (m):	27.450		
Longest Trace - Depth (ft):	90.058		
Longest Trace - Duration (s):	1485.0		
Longest Trace - Duration (min):	24.75		
Longest Trace - Duration (hrs):	0.413		
Original Units:	ft		
Base Units:	m		
Display Units:	ft		
Conversion to Base Units:	0.3048		
Conversion to Display Units:	3.2808		

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 298 / 27.450 / 90.058
0.0	0.00		42.32
5.0	0.08		100.10
10.0	0.17		101.30
15.0	0.25		97.21
20.0	0.33		92.19
25.0	0.42		87.15
30.0	0.50		82.18
35.0	0.58		77.68
40.0	0.67		74.25
45.0	0.75		70.43
50.0	0.83		67.74
55.0	0.92		65.06
60.0	1.00		62.76
65.0	1.08		60.34
70.0	1.17		58.43
75.0	1.25		56.67
80.0	1.33		54.99
85.0	1.42		53.36
90.0	1.50		51.99
95.0	1.58		50.79
100.0	1.67		49.54
105.0	1.75		48.44
110.0	1.83		47.21
115.0	1.92		46.24
120.0	2.00		45.08
125.0	2.08		44.10
130.0	2.17		43.16
135.0	2.25		42.22
140.0	2.33		41.45

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	298			
28				Depth (m)	27.450			
29				Depth (ft)	90.058			
59		145.0	2.42		40.66			
60		150.0	2.50		39.88			
61		155.0	2.58		39.19			
62		160.0	2.67		38.58			
63		165.0	2.75		37.98			
64		170.0	2.83		37.49			
65		175.0	2.92		36.86			
66		180.0	3.00		36.25			
67		185.0	3.08		35.94			
68		190.0	3.17		35.28			
69		195.0	3.25		34.80			
70		200.0	3.33		34.41			
71		205.0	3.42		33.92			
72		210.0	3.50		33.75			
73		215.0	3.58		33.43			
74		220.0	3.67		32.95			
75		225.0	3.75		32.52			
76		230.0	3.83		32.05			
77		235.0	3.92		31.73			
78		240.0	4.00		31.42			
79		245.0	4.08		31.02			
80		250.0	4.17		30.72			
81		255.0	4.25		30.46			
82		260.0	4.33		30.18			
83		265.0	4.42		29.88			
84		270.0	4.50		29.62			
85		275.0	4.58		29.41			
86		280.0	4.67		29.19			
87		285.0	4.75		28.78			
88		290.0	4.83		28.62			
89		295.0	4.92		28.37			
90		300.0	5.00		28.13			
91		305.0	5.08		27.91			
92		310.0	5.17		27.70			
93		315.0	5.25		27.74			
94		320.0	5.33		27.55			
95		325.0	5.42		27.40			
96		330.0	5.50		27.03			
97		335.0	5.58		26.80			
98		340.0	5.67		26.80			
99		345.0	5.75		26.56			
100		350.0	5.83		26.38			
101		355.0	5.92		26.19			
102		360.0	6.00		26.14			
103		365.0	6.08		25.89			
104		370.0	6.17		25.67			
105		375.0	6.25		25.49			
106		380.0	6.33		25.39			
107		385.0	6.42		25.26			
108		390.0	6.50		25.13			
109		395.0	6.58		25.13			
110		400.0	6.67		24.94			
111		405.0	6.75		24.71			
112		410.0	6.83		24.59			
113		415.0	6.92		24.41			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	298			
28				Depth (m)	27.450			
29				Depth (ft)	90.058			
114		420.0	7.00		24.39			
115		425.0	7.08		24.21			
116		430.0	7.17		24.13			
117		435.0	7.25		24.02			
118		440.0	7.33		23.88			
119		445.0	7.42		23.75			
120		450.0	7.50		23.71			
121		455.0	7.58		23.53			
122		460.0	7.67		23.52			
123		465.0	7.75		23.53			
124		470.0	7.83		23.33			
125		475.0	7.92		23.21			
126		480.0	8.00		23.12			
127		485.0	8.08		23.07			
128		490.0	8.17		22.96			
129		495.0	8.25		22.89			
130		500.0	8.33		22.79			
131		505.0	8.42		22.70			
132		510.0	8.50		22.61			
133		515.0	8.58		22.45			
134		520.0	8.67		22.42			
135		525.0	8.75		22.30			
136		530.0	8.83		22.28			
137		535.0	8.92		22.23			
138		540.0	9.00		22.12			
139		545.0	9.08		22.10			
140		550.0	9.17		22.04			
141		555.0	9.25		21.92			
142		560.0	9.33		21.84			
143		565.0	9.42		21.78			
144		570.0	9.50		21.78			
145		575.0	9.58		21.78			
146		580.0	9.67		21.75			
147		585.0	9.75		21.70			
148		590.0	9.83		21.55			
149		595.0	9.92		21.65			
150		600.0	10.00		21.54			
151		605.0	10.08		21.39			
152		610.0	10.17		21.40			
153		615.0	10.25		21.29			
154		620.0	10.33		21.29			
155		625.0	10.42		21.18			
156		630.0	10.50		21.15			
157		635.0	10.58		20.99			
158		640.0	10.67		21.05			
159		645.0	10.75		20.97			
160		650.0	10.83		20.95			
161		655.0	10.92		20.83			
162		660.0	11.00		20.82			
163		665.0	11.08		20.81			
164		670.0	11.17		20.73			
165		675.0	11.25		20.68			
166		680.0	11.33		20.68			
167		685.0	11.42		20.64			
168		690.0	11.50		20.61			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	298			
28				Depth (m)	27.450			
29				Depth (ft)	90.058			
169		695.0	11.58		20.54			
170		700.0	11.67		20.45			
171		705.0	11.75		20.41			
172		710.0	11.83		20.43			
173		715.0	11.92		20.43			
174		720.0	12.00		20.39			
175		725.0	12.08		20.34			
176		730.0	12.17		20.38			
177		735.0	12.25		20.29			
178		740.0	12.33		20.25			
179		745.0	12.42		20.21			
180		750.0	12.50		20.22			
181		755.0	12.58		20.18			
182		760.0	12.67		20.09			
183		765.0	12.75		20.13			
184		770.0	12.83		20.15			
185		775.0	12.92		20.15			
186		780.0	13.00		20.12			
187		785.0	13.08		19.97			
188		790.0	13.17		19.90			
189		795.0	13.25		19.89			
190		800.0	13.33		19.80			
191		805.0	13.42		19.79			
192		810.0	13.50		19.79			
193		815.0	13.58		19.76			
194		820.0	13.67		19.70			
195		825.0	13.75		19.71			
196		830.0	13.83		19.62			
197		835.0	13.92		19.61			
198		840.0	14.00		19.58			
199		845.0	14.08		19.63			
200		850.0	14.17		19.55			
201		855.0	14.25		19.54			
202		860.0	14.33		19.47			
203		865.0	14.42		19.44			
204		870.0	14.50		19.44			
205		875.0	14.58		19.35			
206		880.0	14.67		19.34			
207		885.0	14.75		19.35			
208		890.0	14.83		19.18			
209		895.0	14.92		19.30			
210		900.0	15.00		19.13			
211		905.0	15.08		19.18			
212		910.0	15.17		19.17			
213		915.0	15.25		19.21			
214		920.0	15.33		19.12			
215		925.0	15.42		19.11			
216		930.0	15.50		19.09			
217		935.0	15.58		19.09			
218		940.0	15.67		18.98			
219		945.0	15.75		19.06			
220		950.0	15.83		19.02			
221		955.0	15.92		19.13			
222		960.0	16.00		19.08			
223		965.0	16.08		19.01			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	298			
28				Depth (m)	27.450			
29				Depth (ft)	90.058			
224		970.0	16.17		18.85			
225		975.0	16.25		18.95			
226		980.0	16.33		18.83			
227		985.0	16.42		18.92			
228		990.0	16.50		18.82			
229		995.0	16.58		18.86			
230		1000.0	16.67		18.70			
231		1005.0	16.75		18.74			
232		1010.0	16.83		18.81			
233		1015.0	16.92		18.64			
234		1020.0	17.00		18.69			
235		1025.0	17.08		18.65			
236		1030.0	17.17		18.70			
237		1035.0	17.25		18.61			
238		1040.0	17.33		18.65			
239		1045.0	17.42		18.63			
240		1050.0	17.50		18.63			
241		1055.0	17.58		18.51			
242		1060.0	17.67		18.56			
243		1065.0	17.75		18.60			
244		1070.0	17.83		18.54			
245		1075.0	17.92		18.52			
246		1080.0	18.00		18.45			
247		1085.0	18.08		18.54			
248		1090.0	18.17		18.52			
249		1095.0	18.25		18.42			
250		1100.0	18.33		18.36			
251		1105.0	18.42		18.45			
252		1110.0	18.50		18.36			
253		1115.0	18.58		18.33			
254		1120.0	18.67		18.32			
255		1125.0	18.75		18.36			
256		1130.0	18.83		18.27			
257		1135.0	18.92		18.33			
258		1140.0	19.00		18.21			
259		1145.0	19.08		18.26			
260		1150.0	19.17		18.27			
261		1155.0	19.25		18.27			
262		1160.0	19.33		18.27			
263		1165.0	19.42		18.20			
264		1170.0	19.50		18.24			
265		1175.0	19.58		18.18			
266		1180.0	19.67		18.23			
267		1185.0	19.75		18.15			
268		1190.0	19.83		18.16			
269		1195.0	19.92		18.11			
270		1200.0	20.00		18.18			
271		1205.0	20.08		18.07			
272		1210.0	20.17		18.09			
273		1215.0	20.25		18.02			
274		1220.0	20.33		18.06			
275		1225.0	20.42		18.10			
276		1230.0	20.50		18.06			
277		1235.0	20.58		17.95			
278		1240.0	20.67		18.04			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	298			
28				Depth (m)	27.450			
29				Depth (ft)	90.058			
279		1245.0	20.75		17.92			
280		1250.0	20.83		18.01			
281		1255.0	20.92		17.97			
282		1260.0	21.00		17.94			
283		1265.0	21.08		18.00			
284		1270.0	21.17		17.89			
285		1275.0	21.25		17.92			
286		1280.0	21.33		17.86			
287		1285.0	21.42		17.83			
288		1290.0	21.50		17.89			
289		1295.0	21.58		17.79			
290		1300.0	21.67		17.87			
291		1305.0	21.75		17.87			
292		1310.0	21.83		17.77			
293		1315.0	21.92		17.87			
294		1320.0	22.00		17.83			
295		1325.0	22.08		17.75			
296		1330.0	22.17		17.77			
297		1335.0	22.25		17.72			
298		1340.0	22.33		17.71			
299		1345.0	22.42		17.81			
300		1350.0	22.50		17.67			
301		1355.0	22.58		17.67			
302		1360.0	22.67		17.70			
303		1365.0	22.75		17.64			
304		1370.0	22.83		17.69			
305		1375.0	22.92		17.70			
306		1380.0	23.00		17.65			
307		1385.0	23.08		17.70			
308		1390.0	23.17		17.64			
309		1395.0	23.25		17.59			
310		1400.0	23.33		17.55			
311		1405.0	23.42		17.52			
312		1410.0	23.50		17.57			
313		1415.0	23.58		17.51			
314		1420.0	23.67		17.51			
315		1425.0	23.75		17.46			
316		1430.0	23.83		17.56			
317		1435.0	23.92		17.46			
318		1440.0	24.00		17.42			
319		1445.0	24.08		17.43			
320		1450.0	24.17		17.43			
321		1455.0	24.25		17.51			
322		1460.0	24.33		17.38			
323		1465.0	24.42		17.39			
324		1470.0	24.50		17.42			
325		1475.0	24.58		17.50			
326		1480.0	24.67		17.40			
327		1485.0	24.75		17.46			
328								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-15A.P
Job Number:	15-53039
Sounding ID:	GC PT15-1D-15A
Location:	Bridgeton Landfill
Sounding Date:	19-May-2015
Cone Area (sq cm):	15.0

Number Of Reported Traces:	2	Of 48
Exceeding Duration in Seconds:	90.0	
Longest Trace - Number:	2	
Longest Trace - Points:	73	
Longest Trace - Depth (m):	28.600	
Longest Trace - Depth (ft):	93.831	
Longest Trace - Duration (s):	360.0	
Longest Trace - Duration (min):	6.00	
Longest Trace - Duration (hrs):	0.100	
Original Units:	ft	
Base Units:	m	
Display Units:	ft	
Conversion to Base Units:	0.3048	
Conversion to Display Units:	3.2808	

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 73 / 28.600 / 93.831	2 / 73 / 28.600 / 93.831
0.0	0.00		62.39	62.39
5.0	0.08		127.83	127.83
10.0	0.17		138.35	138.35
15.0	0.25		129.36	129.36
20.0	0.33		121.03	121.03
25.0	0.42		113.18	113.18
30.0	0.50		104.78	104.78
35.0	0.58		97.30	97.30
40.0	0.67		90.23	90.23
45.0	0.75		84.52	84.52
50.0	0.83		81.04	81.04
55.0	0.92		78.71	78.71
60.0	1.00		76.04	76.04
65.0	1.08		73.60	73.60
70.0	1.17		71.34	71.34
75.0	1.25		69.09	69.09
80.0	1.33		67.20	67.20
85.0	1.42		65.41	65.41
90.0	1.50		63.72	63.72
95.0	1.58		62.34	62.34
100.0	1.67		61.26	61.26
105.0	1.75		60.08	60.08
110.0	1.83		58.93	58.93
115.0	1.92		58.06	58.06
120.0	2.00		57.12	57.12
125.0	2.08		56.38	56.38
130.0	2.17		55.73	55.73
135.0	2.25		54.87	54.87
140.0	2.33		54.10	54.10

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1	2		
27		(s)	(min)	Trace Points	73	73		
28				Depth (m)	28.600	28.600		
29				Depth (ft)	93.831	93.831		
59		145.0	2.42		53.41	53.41		
60		150.0	2.50		52.65	52.65		
61		155.0	2.58		51.82	51.82		
62		160.0	2.67		51.24	51.24		
63		165.0	2.75		50.73	50.73		
64		170.0	2.83		49.95	49.95		
65		175.0	2.92		49.27	49.27		
66		180.0	3.00		48.80	48.80		
67		185.0	3.08		48.23	48.23		
68		190.0	3.17		47.93	47.93		
69		195.0	3.25		47.60	47.60		
70		200.0	3.33		47.11	47.11		
71		205.0	3.42		46.80	46.80		
72		210.0	3.50		47.10	47.10		
73		215.0	3.58		46.25	46.25		
74		220.0	3.67		45.82	45.82		
75		225.0	3.75		45.65	45.65		
76		230.0	3.83		45.42	45.42		
77		235.0	3.92		45.07	45.07		
78		240.0	4.00		44.81	44.81		
79		245.0	4.08		44.59	44.59		
80		250.0	4.17		44.25	44.25		
81		255.0	4.25		44.04	44.04		
82		260.0	4.33		43.59	43.59		
83		265.0	4.42		43.24	43.24		
84		270.0	4.50		43.01	43.01		
85		275.0	4.58		42.70	42.70		
86		280.0	4.67		42.71	42.71		
87		285.0	4.75		42.61	42.61		
88		290.0	4.83		42.42	42.42		
89		295.0	4.92		42.22	42.22		
90		300.0	5.00		41.99	41.99		
91		305.0	5.08		41.61	41.61		
92		310.0	5.17		41.43	41.43		
93		315.0	5.25		41.18	41.18		
94		320.0	5.33		40.89	40.89		
95		325.0	5.42		40.56	40.56		
96		330.0	5.50		40.36	40.36		
97		335.0	5.58		40.17	40.17		
98		340.0	5.67		39.89	39.89		
99		345.0	5.75		39.70	39.70		
100		350.0	5.83		39.59	39.59		
101		355.0	5.92		39.24	39.24		
102		360.0	6.00		39.20	39.20		
103								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-15.PP
Job Number:	15-53039
Sounding ID:	GC PT15-1D-15
Location:	Bridgeton Landfill
Sounding Date:	19-May-2015
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 58
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	190
Longest Trace - Depth (m):	26.350
Longest Trace - Depth (ft):	86.449
Longest Trace - Duration (s):	945.0
Longest Trace - Duration (min):	15.75
Longest Trace - Duration (hrs):	0.263
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 190 / 26.350 / 86.449
0.0	0.00		6.36
5.0	0.08		3.53
10.0	0.17		3.41
15.0	0.25		3.63
20.0	0.33		3.59
25.0	0.42		3.62
30.0	0.50		3.74
35.0	0.58		3.65
40.0	0.67		3.63
45.0	0.75		3.60
50.0	0.83		3.62
55.0	0.92		3.68
60.0	1.00		3.66
65.0	1.08		3.66
70.0	1.17		3.72
75.0	1.25		3.62
80.0	1.33		3.54
85.0	1.42		3.58
90.0	1.50		3.52
95.0	1.58		3.50
100.0	1.67		3.46
105.0	1.75		3.46
110.0	1.83		3.34
115.0	1.92		3.44
120.0	2.00		3.38
125.0	2.08		3.38
130.0	2.17		3.38
135.0	2.25		3.31
140.0	2.33		3.27

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	190			
28				Depth (m)	26.350			
29				Depth (ft)	86.449			
59		145.0	2.42		3.16			
60		150.0	2.50		3.24			
61		155.0	2.58		3.09			
62		160.0	2.67		3.00			
63		165.0	2.75		3.06			
64		170.0	2.83		3.03			
65		175.0	2.92		2.99			
66		180.0	3.00		2.96			
67		185.0	3.08		2.89			
68		190.0	3.17		2.96			
69		195.0	3.25		2.85			
70		200.0	3.33		2.85			
71		205.0	3.42		2.80			
72		210.0	3.50		2.77			
73		215.0	3.58		2.72			
74		220.0	3.67		2.77			
75		225.0	3.75		2.61			
76		230.0	3.83		2.71			
77		235.0	3.92		2.69			
78		240.0	4.00		2.70			
79		245.0	4.08		2.52			
80		250.0	4.17		2.53			
81		255.0	4.25		2.48			
82		260.0	4.33		2.50			
83		265.0	4.42		2.56			
84		270.0	4.50		2.54			
85		275.0	4.58		2.50			
86		280.0	4.67		2.42			
87		285.0	4.75		2.45			
88		290.0	4.83		2.38			
89		295.0	4.92		2.38			
90		300.0	5.00		2.21			
91		305.0	5.08		2.31			
92		310.0	5.17		2.36			
93		315.0	5.25		2.30			
94		320.0	5.33		2.22			
95		325.0	5.42		2.28			
96		330.0	5.50		2.25			
97		335.0	5.58		2.16			
98		340.0	5.67		2.13			
99		345.0	5.75		2.10			
100		350.0	5.83		2.06			
101		355.0	5.92		2.20			
102		360.0	6.00		2.12			
103		365.0	6.08		2.16			
104		370.0	6.17		2.09			
105		375.0	6.25		2.06			
106		380.0	6.33		2.10			
107		385.0	6.42		1.99			
108		390.0	6.50		2.09			
109		395.0	6.58		2.00			
110		400.0	6.67		2.00			
111		405.0	6.75		1.89			
112		410.0	6.83		2.04			
113		415.0	6.92		1.93			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	190			
28				Depth (m)	26.350			
29				Depth (ft)	86.449			
114		420.0	7.00		1.99			
115		425.0	7.08		1.89			
116		430.0	7.17		1.91			
117		435.0	7.25		2.02			
118		440.0	7.33		1.87			
119		445.0	7.42		1.91			
120		450.0	7.50		1.90			
121		455.0	7.58		1.82			
122		460.0	7.67		1.84			
123		465.0	7.75		1.78			
124		470.0	7.83		1.76			
125		475.0	7.92		1.76			
126		480.0	8.00		1.73			
127		485.0	8.08		1.74			
128		490.0	8.17		1.79			
129		495.0	8.25		1.74			
130		500.0	8.33		1.78			
131		505.0	8.42		1.77			
132		510.0	8.50		1.77			
133		515.0	8.58		1.73			
134		520.0	8.67		1.67			
135		525.0	8.75		1.73			
136		530.0	8.83		1.70			
137		535.0	8.92		1.77			
138		540.0	9.00		1.68			
139		545.0	9.08		1.64			
140		550.0	9.17		1.76			
141		555.0	9.25		1.83			
142		560.0	9.33		1.68			
143		565.0	9.42		1.62			
144		570.0	9.50		1.60			
145		575.0	9.58		1.74			
146		580.0	9.67		1.71			
147		585.0	9.75		1.60			
148		590.0	9.83		1.66			
149		595.0	9.92		1.65			
150		600.0	10.00		1.66			
151		605.0	10.08		1.65			
152		610.0	10.17		1.67			
153		615.0	10.25		1.80			
154		620.0	10.33		1.86			
155		625.0	10.42		1.79			
156		630.0	10.50		1.75			
157		635.0	10.58		1.79			
158		640.0	10.67		1.85			
159		645.0	10.75		1.55			
160		650.0	10.83		1.72			
161		655.0	10.92		1.62			
162		660.0	11.00		1.61			
163		665.0	11.08		1.76			
164		670.0	11.17		1.80			
165		675.0	11.25		1.73			
166		680.0	11.33		1.74			
167		685.0	11.42		2.09			
168		690.0	11.50		1.75			

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	190			
28				Depth (m)	26.350			
29				Depth (ft)	86.449			
169		695.0	11.58		1.88			
170		700.0	11.67		1.98			
171		705.0	11.75		1.86			
172		710.0	11.83		2.04			
173		715.0	11.92		1.95			
174		720.0	12.00		1.99			
175		725.0	12.08		2.01			
176		730.0	12.17		1.80			
177		735.0	12.25		1.92			
178		740.0	12.33		1.87			
179		745.0	12.42		1.92			
180		750.0	12.50		1.82			
181		755.0	12.58		1.92			
182		760.0	12.67		1.94			
183		765.0	12.75		1.95			
184		770.0	12.83		1.87			
185		775.0	12.92		1.82			
186		780.0	13.00		1.82			
187		785.0	13.08		1.92			
188		790.0	13.17		1.96			
189		795.0	13.25		1.97			
190		800.0	13.33		2.02			
191		805.0	13.42		1.96			
192		810.0	13.50		2.01			
193		815.0	13.58		1.92			
194		820.0	13.67		2.18			
195		825.0	13.75		2.02			
196		830.0	13.83		2.02			
197		835.0	13.92		2.04			
198		840.0	14.00		2.01			
199		845.0	14.08		2.00			
200		850.0	14.17		2.11			
201		855.0	14.25		2.25			
202		860.0	14.33		2.04			
203		865.0	14.42		2.06			
204		870.0	14.50		2.09			
205		875.0	14.58		1.97			
206		880.0	14.67		2.04			
207		885.0	14.75		2.11			
208		890.0	14.83		2.05			
209		895.0	14.92		2.11			
210		900.0	15.00		2.01			
211		905.0	15.08		2.05			
212		910.0	15.17		2.02			
213		915.0	15.25		1.93			
214		920.0	15.33		2.06			
215		925.0	15.42		2.05			
216		930.0	15.50		2.04			
217		935.0	15.58		1.99			
218		940.0	15.67		1.79			
219		945.0	15.75		1.93			
220								

ConeTec Pore Pressure Dissipation Data

Original File:	15-53039_GP1D-16A.P
Job Number:	15-53039
Sounding ID:	GCPT15-1D-16A
Location:	Bridgeton Landfill
Sounding Date:	19-May-2015
Cone Area (sq cm):	15.0
Number Of Reported Traces:	1 Of 24
Exceeding Duration in Seconds:	90.0
Longest Trace - Number:	1
Longest Trace - Points:	41
Longest Trace - Depth (m):	15.900
Longest Trace - Depth (ft):	52.165
Longest Trace - Duration (s):	200.0
Longest Trace - Duration (min):	3.33
Longest Trace - Duration (hrs):	0.056
Original Units:	ft
Base Units:	m
Display Units:	ft
Conversion to Base Units:	0.3048
Conversion to Display Units:	3.2808

Note: All Pore Pressures are in ft

Time (s)	Time (min)	Trace No. / Trace Points / Depth (m) / Depth (ft)	1 / 41 / 15.900 / 52.165
0.0	0.00		69.67
5.0	0.08		14.25
10.0	0.17		12.40
15.0	0.25		11.84
20.0	0.33		11.06
25.0	0.42		10.65
30.0	0.50		9.72
35.0	0.58		9.90
40.0	0.67		8.80
45.0	0.75		9.52
50.0	0.83		8.95
55.0	0.92		8.66
60.0	1.00		8.77
65.0	1.08		9.54
70.0	1.17		9.54
75.0	1.25		9.34
80.0	1.33		9.30
85.0	1.42		9.30
90.0	1.50		9.09
95.0	1.58		9.42
100.0	1.67		9.21
105.0	1.75		9.31
110.0	1.83		9.32
115.0	1.92		9.27
120.0	2.00		9.15
125.0	2.08		9.06
130.0	2.17		8.84
135.0	2.25		8.70
140.0	2.33		8.50

	A	B	C	D	E	F	G	H
26		Time	Time	Trace No.	1			
27		(s)	(min)	Trace Points	41			
28				Depth (m)	15.900			
29				Depth (ft)	52.165			
59		145.0	2.42		8.28			
60		150.0	2.50		8.14			
61		155.0	2.58		7.88			
62		160.0	2.67		7.80			
63		165.0	2.75		7.61			
64		170.0	2.83		7.49			
65		175.0	2.92		7.35			
66		180.0	3.00		7.26			
67		185.0	3.08		7.07			
68		190.0	3.17		7.04			
69		195.0	3.25		7.83			
70								
71								

APPENDIX B:

Soil Boring Logs

B-1: Phase 1C Boring Logs

B-2: Phase 1C Core Photographic Logs

B-3: Phase 1D Boring Logs

B-4: Phase 1D Core Photographic Logs

B-5: McLaren Hart Area 1 RI Boring Logs

B-6: Boring Logs for Monitoring Wells Located in or Near Area 1

Appendix B-1:

Phase 1C Boring Logs

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515878
Northing: 1068783
GS Elevation: 472.552 ft MSL
MSL Drill Date: 2/1 - 2/2/2014

Borehole ID: 1-2
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	42/60	CLAY, reworked to build drilling pad/bench (FILL)
	5		CLAY, reworked to build drilling pad/bench (FILL)
2		28/36	Top of Waste Elevation 466.552 feet MSL LANDFILLED MATERIAL, with CLAY seams, minor GRAVEL (WASTE)
3	10	27/120	LANDFILLED MATERIAL, with soft, moist dark gray 10YR 4/1 CLAY seams (WASTE)
	15		
			LANDFILLED MATERIAL, as above (WASTE)
4	20	60/60	CLAY with occasional LANDFILLED MATERIAL (WASTE)
			LANDFILLED MATERIAL, paper, wood, glass pieces, plastic (WASTE)
5	25	19/60	LANDFILLED MATERIAL, wood, plastic, with soft moist CLAY (WASTE)
			CLAY with minor LANDFILLED MATERIAL (WASTE)
			LANDFILLED MATERIAL, plastic bags, wood, metal (WASTE)
	30		Bottom of Waste Elevation 442.552 feet MSL
6		76/120	CONCRETE with discernable rounded to sub-rounded aggregate in cement mix
	35		SILT and SAND, dry, poorly sorted, dark grayish brown 10YR 4/2 (FILL)
			SAND, dry to moist, fine grained, silty, dark grayish brown 10YR 4/2 (ALLUVIUM)
			SILT, with very fine SAND, dry, dense (ALLUVIUM)
7	40	59/60	SILT as above, very dark grayish brown 10YR 3/2 (ALLUVIUM)
			SAND, dry to moist, fine grained, well sorted, dark grayish brown 10YR 4/2 (ALLUVIUM)
			Bottom of borehole 43 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Danny Henry - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515936
Northing: 1068689
GS Elevation: 469.209 ft MSL
Drill Date: 2/16/2014

Borehole ID: 1C-6
Sheet Number: 1 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	45/60	CLAY, silty, with occasional gravel and organic debris, stiff to firm, dark gray 10YR 4/1 (FILL)
2	5	30/48	CLAY, silty as above (FILL)
			Top of Waste Elevation 461.709 feet MSL
			LANDFILLED MATERIAL, plastic bags, styrofoam (WASTE)
3	10	71/120	LANDFILLED MATERIAL, with CLAY bands (WASTE)
			CLAY, stiff to firm, moist, dark grayish brown 10YR 4/2 (WASTE)
	15		LANDFILLED MATERIAL, wood, hard plastic, paper scrap (WASTE)
4	20	28/60	LANDFILLED MATERIAL, wire, cloth, plastic tubing, minor CLAY bands (WASTE)
5	25	60/60	LANDFILLED MATERIAL, metal, plastic bags, some coarse sand and clay (WASTE)
			Bottom of Waste Elevation 443.209 feet MSL
			CONCRETE with distinct aggregate, broken, weakly cemented
6	30	52/120	CONCRETE as above with abundant gravel at base
	35		SAND, silty at top, fine grained, dry, loose, gray to dark grayish brown 10YR 5/1 to 10YR 4/2 (ALLUVIUM)
7	40	109/120	SAND, fine grained, moist, loose, gray to dark grayish brown 10YR 5/1 to 10YR 4/2 (ALLLUVIUM)
	45		

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Danny Henry - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515936
Northing: 1068689
GS Elevation: 469.209 ft MSL
Drill Date: 2/16/2014

Borehole ID: 1C-6
Sheet Number: 2 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	50		
8	55	112/120	SAND, fine grained, moist, loose, gray to dark grayish brown 10YR 5/1 to 10YR 4/2 (ALLUVIUM)
	60		
9	65	108/120	SAND, fine- to medium-grained coarsening downward, moist to damp, loose to medium dense, gray to dark grayish brown 10YR 5/1 to 10YR 4/2 (ALLUVIUM)
	70		
10	75	103/120	SAND, coarsening downward as above, medium dense, occasional coarse sand (ALLUVIUM)
	80		
11	85	115/120	SAND, medium-grained coarsening downward, well-graded, damp to wet, coarse grains in distinct layers in bottom 2 feet (ALLUVIUM)
	90		
12		31/48	SAND, as above, medium-grained with abundant coarse grains, wet (ALLUVIUM)
			LIMESTONE, broken (BEDROCK)
	95		Bottom of borehole 93 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Danny Henry - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515926
Northing: 1068877
GS Elevation: 475.16 ft MSL
Drill Date: 1/31/2014

Borehole ID: 2-2
Sheet Number: 1 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	60/60	GRAVEL, SILT, and silty CLAY, dry dark yellowish brown grading down to very dark grayish brown 10YR 3/2 (FILL)
			Top of Waste Elevation 471.160 feet MSL
2	5	24/48	LANDFILLED MATERIAL, wood, plastic, wire (WASTE) SILT with CLAY and minor GRAVEL, moist, very dark gray 10YR 3/1 (WASTE) LANDFILLED MATERIAL, wood, hard plastic and bags (WASTE)
3	10 15	85/120	LANDFILLED MATERIAL, with CLAY bands and occasional GRAVEL throughout (WASTE)
4	20 25	49/120	LANDFILLED MATERIAL, tire pieces, plastic tubing, occasional CLAY bands and wire in bottom half (WASTE)
5	30	26/60	LANDFILLED MATERIAL, soda can, metal tubing/wire (WASTE) CLAY, stiff, dark gray 10YR 4/1 (WASTE) LANDFILLED MATERIAL, metal tubing, plastic shards, wire (WASTE) CLAY, silty, stiff, dark gray 10YR 4/1 (WASTE)
6	35	42/60	LANDFILLED MATERIAL, wood, hard plastic (WASTE)
7	40 45	93/120	LANDFILLED MATERIAL, auto shredder, metal tubing, plastic (WASTE)

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Danny Henry - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515926
Northing: 1068877
GS Elevation: 475.16 ft MSL
Drill Date: 1/31/2014

Borehole ID: 2-2
Sheet Number: 2 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			Bottom of Waste Elevation 427.160 feet MSL
	50		SAND, fine, loose, dry to moist, dark gray 10YR 4/1 (ALLUVIUM)
8		43/60	SAND, very fine coarsening to fine-med, well-sorted and -graded, moist, dark gray grading down to dark grayish brown 10YR 4/1 to 10YR 4/2 (ALLUVIUM)
	55		Bottom of borehole 54 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516094
Northing: 1068987
GS Elevation: 474.367 ft MSL
Drill Date: 1/30/2014

Borehole ID: 5-3
Sheet Number: 1 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	26/60	GRAVEL, SILT, and CLAY, dry to moist, dark gray, 10YR 4/1 (FILL)
2	5	23/36	GRAVEL, SILT, and CLAY, as above (FILL) Top of Waste Elevation 468.867 feet MSL LANDFILLED MATERIAL, plastic, wood, metal (WASTE)
3	10 15	6/120	LANDFILLED MATERIAL and GRAVEL, plastic, metal (WASTE)
4	20	23/60	LANDFILLED MATERIAL with CLAY seams, wood, plastic, concrete fragments (WASTE)
5	25	52/60	LANDFILLED MATERIAL with silty CLAY and GRAVEL, wet, very dark gray 10YR 3/1 (WASTE) LANDFILLED MATERIAL, wood, hard plastic shards, moist to dry (WASTE)
6	30	60/60	CLAY with LANDFILLED MATERIAL, very dark gray 10YR 3/1 (WASTE) LANDFILLED MATERIAL, auto shredder, plastic, metal (WASTE) CLAY, moist to damp, very dark gray 10YR 3/1 (WASTE) LANDFILLED MATERIAL, auto shredder, plastic, metal (WASTE)
7	35	43/60	LANDFILLED MATERIAL with CLAY, wood, hard plastic, moist (WASTE)
8	40 45	98/120	LANDFILLED MATERIAL with CLAY, sheet metal (WASTE) CLAY grading to sandy CLAY, moist, firm, dark gray 10YR 4/1 (WASTE) LANDFILLED MATERIAL with CLAY, auto shredder at top (WASTE) CLAY, damp, very dark gray 10YR 3/1 (WASTE) LANDFILLED MATERIAL with CLAY, plastic, metal wire, wood (WASTE)

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516094
Northing: 1068987
GS Elevation: 474.367 ft MSL
Drill Date: 1/30/2014

Borehole ID: 5-3
Sheet Number: 2 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			Bottom of Waste Elevation 426.367 feet MSL
9	50	48/60	SAND, fine grained, silty, well-sorted, dense, dark gray 10YR 4/1 (ALLUVIUM)
			Bottom of borehole 53 feet
	55		

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516369
Northing: 1069041
GS Elevation: 479.753 ft MSL
Drill Date: 1/20/2014

Borehole ID: 8-1
Sheet Number: 1 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	30/60	GRAVEL and CLAY, dry, stiff, dark brown 10YR 3/3 (FILL)
2	5	18/36	GRAVEL, CLAY, and SILT, dry, very dark gray and dark gray 10YR 3/1 and 10YR 4/1 (FILL)
3	10	41/60	GRAVEL, CLAY, and SILT as above (FILL) Top of Waste Elevation 470.753 feet MSL LANDFILLED MATERIAL, plastic, paper, metal, wire (WASTE)
4	15	39/60	LANDFILLED MATERIAL, as above (WASTE) CLAY, moist to damp, dark gray 10YR 4/1, minor SILT (WASTE) LANDFILLED MATERIAL, as above (WASTE)
5	20	5/60	LANDFILLED MATERIAL, plastic, paper, metal, wire, glass. Poor recovery as material is pushed away from sampler and into the borehole wall (WASTE)
6	25	4/60	LANDFILLED MATERIAL, plastic, paper, metal, wire, glass. Poor recovery (WASTE)
7	30	3/60	LANDFILLED MATERIAL, plastic, paper, metal, wire, glass. Material appears to have been shredded prior to disposal (WASTE). Poor recovery.
8	35	0/60	NO RECOVERY. Trace LANDFILLED MATERIAL in sampler shoe.
9	40	103/120	LANDFILLED MATERIAL, plastic, paper, metal, wire, glass. Poor recovery (WASTE) CLAY, soft, damp to wet, dark gray 10YR 4/1 (WASTE) LANDFILLED MATERIAL, occasional CLAY lenses, damp (WASTE) Bottom of Waste Elevation 436.753 feet MSL 45 SILT and fine SAND, minor CLAY, moist, dark greenish gray 5GY 4/1 (ALLUVIUM)

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516369
Northing: 1069041
GS Elevation: 479.753 ft MSL
Drill Date: 1/20/2014

Borehole ID: 8-1
Sheet Number: 2 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
10	50	41/60	SILT with fine SAND, moist, dark greenish gray to greenish gray 5GY 4/1 to 5GY 5/1 (ALLUVIUM)
	55		Bottom of borehole 53 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516641
Northing: 1069087
GS Elevation: 478.857 ft MSL
Drill Date: 1/15/2014

Borehole ID: 12-5
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	44/60	GRAVEL, loose, dry, with CONCRETE, SAND, and CLAY (FILL)
2	5	7/48	GRAVEL, SAND, and CLAY, occasional wood debris (FILL)
			Top of Waste Elevation 469.857 feet MSL
3	10	62/120	LANDFILLED MATERIAL, wood scraps, paper, plastic (hard and as bags), paper, wire, occasional moist to damp CLAY lenses (WASTE)
4	15 20	32/120	LANDFILLED MATERIAL, as above, some wire and aluminum (WASTE)
5	25 30	73/120	LANDFILLED MATERIAL, with CLAY lenses, plastic bags (WASTE)
6	35 40	113/120	LANDFILLED MATERIAL, as above, with CLAY lenses throughout, plastic, paper (WASTE)
	45		Bottom of Waste Elevation 433.857 feet MSL
			LIMESTONE, dry, broken, light gray 10YR 7/1 on fresh surface, very pale brown rock flour 10YR 7/3 (BEDROCK)
	50		Bottom of borehole 49 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516662
Northing: 1069232
GS Elevation: 472.589 ft MSL
Drill Date: 1/14/2014

Borehole ID: 13-3
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	31/60	GRAVEL, loose, dry, with CONCRETE fragments and SAND, minor CLAY (FILL)
2	5	12/48	GRAVEL with CLAY, occasional SAND, dry, dark grayish brown 10YR 4/2 (FILL)
			Top of Waste Elevation 463.589 feet MSL
3	10	61/120	LANDFILLED MATERIAL, wood shards, plastic, compressed paper, metal (WASTE)
4	15	52/120	LANDFILLED MATERIAL, wood, glass, hard plastic, paper, wire (WASTE)
5	20	90/120	LANDFILLED MATERIAL, as above, with CLAY lenses throughout, plastic, paper (WASTE)
6	25	104/120	LANDFILLED MATERIAL, as above, with CLAY lenses throughout, plastic, paper (WASTE)
	30		Bottom of Waste Elevation 426.589 feet MSL
	35		SILT grading to fine SAND, dry to moist, very dark greenish gray 10Y 3/1 (ALLUVIUM)
7	40	53/60	SAND, fine grained, well sorted, moist, greenish gray 5GY 5/1 (ALLUVIUM)
	45		LIMESTONE GRAVEL, angular clasts, light gray 10YR 7/2 (BEDROCK)
	50		Bottom of borehole 54 feet
	55		

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Danny Henry - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516724
Northing: 1069093
GS Elevation: 475.877 ft MSL
Drill Date: 2/17/2014

Borehole ID: 13-6
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	50/60	GRAVEL with SAND and CLAY, loose, dry, angular (FILL)
			CLAY, stiff to very stiff, dry, silty, abundant GRAVEL in zones near the top and bottom of sample, brown 10YR 5/3 (FILL)
2	5	48/48	CLAY, with SAND and GRAVEL as above (FILL)
3	10	32/120	CLAY, with SAND and abundant GRAVEL, trace black inclusions, grayish brown to dark grayish brown at base 10YR 5/2 to 10YR 4/2 (FILL)
	15		
4	20	65/120	Top of Waste Elevation 456.877 feet MSL
			LANDFILLED MATERIAL, concrete, wood, minor plastic (WASTE)
	25		CLAY with sand and minor LANDFILLED MATERIAL, dark grayish brown 10YR 4/2 (WASTE)
			LANDFILLED MATERIAL, plastic fork, etc (WASTE)
			CLAY as above, firm, moist (WASTE)
5	30	47/120	LANDFILLED MATERIAL, wood, metal, nails (WASTE)
	35		LANDFILLED MATERIAL with CLAY bands in upper foot, plastic, wire (WASTE)
6	40	96/120	CLAY with minor plastic and metal (WASTE)
			LANDFILLED MATERIAL (WASTE)
	45		CLAY, sandy, moist to damp, plastic pieces throughout (WASTE)
			LANDFILLED MATERIAL with occasional clay lenses (WASTE)
7	50	71/120	LANDFILLED MATERIAL with occasional clay lenses (WASTE)
			CLAY, firm to soft, trace metal pieces (WASTE)
	55		LANDFILLED MATERIAL sharp metal pieces, wood (WASTE)
			CONCRETE and GRAVEL, broken, dry (WASTE)
8	60	43/120	CLAY with abundant GRAVEL and occasional wood, hard plastic (WASTE)
	65		LANDFILLED MATERIAL with abundant plastic (WASTE)
9	70	52/120	CLAY with LANDFILLED MATERIAL (WASTE)
	75		LANDFILLED MATERIAL, wood, hard plastic (WASTE)
			CLAY with GRAVEL, wood, plastic, wire (WASTE)
10	80	108/120	CLAY as above, firm to soft, damp (WASTE)
			LANDFILLED MATERIAL with occasional clay lenses (WASTE)
	85		CLAY with GRAVEL, wood, plastic bags (WASTE)
			LANDFILLED MATERIAL w/ gravel & clay (WASTE) Bot Waste Elev 389.777 ft MSL
	90		LIMESTONE, vry hrd, massive, 10YR 5/1 to 6/1 (BEDROCK) Bot of borehole 89 ft

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Ashley Jahr - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516701
Northing: 1069251
GS Elevation: 474.586 ft MSL
Drill Date: 1/15/2014

Borehole ID: 14-2
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	38/60	GRAVEL, loose, dry, with CONCRETE fragments and SAND, minor CLAY (FILL)
2	5	12/36	GRAVEL with CLAY and SAND, dry, dark grayish brown 10YR 4/2 (FILL)
			Top of Waste Elevation 466.586 feet MSL
3	10	38/120	LANDFILLED MATERIAL, wood waste, plastic, paper, metal, wire (WASTE)
4	15 20	36/120	LANDFILLED MATERIAL, wood waste, plastic, paper, metal, wire (WASTE)
5	25 30	75/120	LANDFILLED MATERIAL, with CLAY in 6-8 inch lenses, plastic bags, metal (WASTE)
6	35 40	48/120	LANDFILLED MATERIAL, with CLAY lenses as above, minor rock fragments at base (WASTE)
	45		LANDFILLED MATERIAL, with CLAY and SAND, some angular to sub-angular GRAVEL (WASTE)
	50		Bottom of Waste Elevation 424.586 feet MSL
7		95/120	LIMESTONE, sandy GRAVEL, light gray 10YR 7/2 (BEDROCK)
	55		LIMESTONE, dry, broken, light gray 10YR 7/2 (BEDROCK)
	60		Bottom of borehole 58 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516743
Northing: 1069180
GS Elevation: 474.433 ft MSL
Drill Date: 1/19/2014

Borehole ID: 14-4
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	15/60	GRAVEL, loose, dry, with SAND, sub-angular (FILL)
2	5	14/36	GRAVEL, loose, dry, with SAND, sub-angular (FILL)
			CONCRETE plug in catcher w/ waste material at contact (FILL)
			Top of Waste Elevation 465.933 feet MSL
3	10	7/120	LANDFILLED MATERIAL, wood waste, plastic, paper, metal, wire (WASTE)
4	15 20	13/120	LANDFILLED MATERIAL, with CLAY lenses throughout, scrap wood, hard plastic and bags, paper, wire (WASTE)
5	25 30	28/120	LANDFILLED MATERIAL, wood waste, plastic, paper, metal, wire (WASTE)
			Bottom of Waste Elevation 436.433 feet MSL
6	35 40	111/120	LIMESTONE and GRAVEL, broken clasts, light gray on fresh surface 10YR 7/1, white N 8/1 rock flour, dry (BEDROCK)
	45		Bottom of borehole 48 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Ashley Jahr - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516778
Northing: 1069123
GS Elevation: 472.916 ft MSL
Drill Date: 2/25/2014

Borehole ID: 14-5
Sheet Number: 1 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	33/60	CLAY with SAND and GRAVEL, dry, very stiff (FILL)
2	5	48/48	CLAY with SAND and GRAVEL as above (FILL) CONCRETE and fragments of brick, yellowish brown 10YR 5/8 (FILL) CLAY, sandy, dry to moist, stiff to firm (FILL)
3	10 15	46/120	CLAY, sandy, soft, yellowish brown 10YR 5/8 (FILL) CLAY, soft, brown 10YR 4/3 with very dark gray 10YR 3/1 zones (FILL)
			Top of Waste Elevation 453.916 feet MSL
4	20 25	66/120	LANDFILLED MATERIAL, wood, hard plastic and plastic bags, metal wire (WASTE)
5	30 35	63/120	LANDFILLED MATERIAL with CLAY bands in bottom half, autoshred debris, fabric (WASTE)
6	40 45	49/120	LANDFILLED MATERIAL, with CLAY as above, concrete pieces at base (WASTE)

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger: Ashley Jahr - Auxier & Associates

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516778
Northing: 1069123
GS Elevation: 472.916 ft MSL
Drill Date: 2/25/2014

Borehole ID: 14-5
Sheet Number: 2 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	50		
7	55	37/120	LANDFILLED MATERIAL, wood, plastic (WASTE)
	60		LANDFILLED MATERIAL (WASTE)
8	65	81/120	CLAY, soft, damp, very dark gray 10YR 3/1 (WASTE) LANDFILLED MATERIAL, thick zone of compressed white plastic bags (WASTE)
	70		
9	75	31/120	LANDFILLED MATERIAL, with clay band at top (WASTE)
	80		
10	85	70/120	LANDFILLED MATERIAL with occasional clay lenses (WASTE)
			Bottom of Waste Elevation 386.916 feet MSL
			CLAY, calcareous, with LIMESTONE fragments throughout, gray 10YR 6/1 (ALLUVIUM)
	90		LIMESTONE, well cemented, angular breaks, dry (BEDROCK)
			Bottom of borehole 89 feet

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516849
Northing: 1069028
GS Elevation: 473.293 ft MSL
Drill Date: 1/16/2014

Borehole ID: 14-7
Sheet Number: 1 of 3

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	0		GRAVEL, loose, dry, with abundant SAND, angular to sub-angular, dark gray 10YR 4/1 (FILL)
1		45/60	CLAY, dry, stiff, with abundant CONCRETE fragments, dark yellowish brown 10YR 4/4 (FILL)
2		33/48	CLAY, as above, dry, stiff, with abundant CONCRETE, dark yellowish brown 10YR 4/4 (FILL)
			GRAVEL, with CLAY, dry, sub-angular, very pale brown 10YR 8/3 (FILL)
	10		GRAVEL, with CLAY, as above, increasing SAND, very pale brown grading to very dark grayish brown 10YR 3/2 (FILL)
3		100/120	Top of Waste Elevation 460.793 feet MSL LANDFILLED MATERIAL, plastic, paper, some CLAY clasts (WASTE)
	20		
4		46/120	LANDFILLED MATERIAL, plastic, paper, minor CLAY, cloth, wire, and aluminum (WASTE)
	30		
5		67/120	LANDFILLED MATERIAL with CLAY lenses, plastic bags, wood (WASTE)
	40		
6		49/120	LANDFILLED MATERIAL with CLAY lenses, plastic, glass, wood (WASTE)

FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516849
Northing: 1069028
GS Elevation: 473.293 ft MSL
Drill Date: 1/16/2014

Borehole ID: 14-7
Sheet Number: 2 of 3

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
7	50	65/120	LANDFILLED MATERIAL with CLAY lenses, plastic, glass, wood (WASTE)
8	60	56/120	LANDFILLED MATERIAL with minor CLAY, plastic, glass, wood (WASTE)
9	70	63/120	LANDFILLED MATERIAL, with 18-in sandy CLAY layer at top and other lenses throughout (WASTE)
10	80	120/120	LANDFILLED MATERIAL with minor CLAY, plastic, glass, wood (WASTE)
11	90	112/120	LANDFILLED MATERIAL with CLAY lenses, dry (WASTE)

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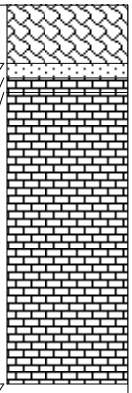
Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516849
Northing: 1069028
GS Elevation: 473.293 ft MSL
Drill Date: 1/16/2014

Borehole ID: 14-7
Sheet Number: 3 of 3

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			Bottom of Waste Elevation 375.293 feet MSL
			SILT and SAND (ALLUVIUM)
	100		LIMESTONE w/ CLAY, gray to light gray 10YR 6/1 to 7/1 (BEDROCK)
12		110/120	LIMESTONE GRAVEL with SAND and minor CLAY, gray to light gray as above, with light greenish gray rock flour 10Y 8/1 (BEDROCK)
	110		Bottom of borehole 109 feet



FEEZOR ENGINEERING, INC.

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516769
Northing: 1069281
GS Elevation: 476.482 ft MSL
Drill Date: 1/17/2014

Borehole ID: 15-2
Sheet Number: 1 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	33/60	GRAVEL, loose, dry, with abundant SAND, angular to sub-angular, dark gray 10YR 4/1 (FILL)
			GRAVEL, loose, dry, with abundant SAND, angular to sub-angular, very pale brown 10YR 8/3 (FILL)
2	5	30/48	GRAVEL, loose, dry, with SAND and stiff CLAY, grades from dark grayish brown to dark gray 10YR 4/2 to 10YR 4/1 (FILL)
3	10	69/120	CLAY, stiff, dry to moist, dark grayish brown 10YR 4/2, with SAND and minor sub-angular GRAVEL (FILL)
	15		SILT, clayey, trace coarse SAND, moist, dark grayish brown 10YR 4/2 (FILL)
			CONCRETE clasts, sub-rounded by drilling (FILL)
4	20	100/120	SILT, clayey, minor SAND, moist to damp, very dark gray 10YR 3/1 (FILL)
	25		Top of Waste Elevation 450.982 feet MSL
			LANDFILLED MATERIAL, paper sheets (WASTE)
			SILT, clayey, trace SAND, moist to damp, very dark gray 10YR 3/1 (FILL)
			LANDFILLED MATERIAL, plastic, paper (WASTE)
5	30	101/120	Bottom of Waste Elevation 448.482 feet MSL
			SILT, clayey, trace SAND, moist, very dark gray 10YR 3/1 (ALLUVIUM)
	35		SILT, with CLAY and fine SAND, moist, very dark gray 10YR 3/1 (ALLUVIUM)
6	40	98/120	SILT, as above (ALLUVIUM)
	45		CLAY, stiff, dry to moist, plastic, trace silt, very dark gray 10YR 3/1 (ALLUVIUM)

FEEZOR ENGINEERING, INC.

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Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516769
Northing: 1069281
GS Elevation: 476.482 ft MSL
Drill Date: 1/17/2014

Borehole ID: 15-2
Sheet Number: 2 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
7	50	24/24	LIMESTONE GRAVEL, with CLAY matrix, dry, grayish brown 10YR 5/2 (BEDROCK)
			LIMESTONE GRAVEL as above w/ rounded 4-in clast at base. Dry rock flour, very pale brown to white 10YR 8/2 to 8/1 (BEDROCK)
			Bottom of borehole 51 feet

FEEZOR ENGINEERING, INC.

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Project Name: OU-1 Area 1 - Phase 1B
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FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516837
Northing: 1069267
GS Elevation: 470.739 ft MSL
Drill Date: 1/18/2014

Borehole ID: 16-3
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	6/60	GRAVEL, loose, dry, with SAND, sub-angular (FILL)
2	5	31/36	CLAY, silty, firm, dry, with GRAVEL, dark yellowish brown 10YR 4/4 (FILL)
3	10	74/120	CLAY, silty, firm, dry, with SILT and GRAVEL, dark yellowish brown 10YR 4/4. Increasing plasticity lower half, grades to very dark grayish brown 10YR 3/2 (FILL)
			Top of Waste Elevation 457.739 feet MSL
	15		LANDFILLED MATERIAL, wood waste, plastic, paper, metal, wire (WASTE)
4	20	19/120	LANDFILLED MATERIAL, wood waste, plastic, paper, metal, wire (WASTE)
	25		Bottom of Waste Elevation 442.739 feet MSL
5	30	83/120	LIMESTONE GRAVEL, broken rounded clasts, light gray 10YR 7/1 with white N 8/1 rock flour, dry (BEDROCK)
	35		Bottom of borehole 38 feet

FEEZOR ENGINEERING, INC.

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Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516939
Northing: 1069155
GS Elevation: 477.055 ft MSL
Drill Date: 1/18/2014

Borehole ID: 16-6
Sheet Number: 1 of 1

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	14/60	GRAVEL, loose, dry, with SAND, CLAY, wood and rebar (FILL)
2	5	38/48	CLAY with SILT, dry, stiff, very dark grayish brown to dark grayish brown 10YR 3/2 to 10YR 4/2 (FILL) Top of Waste Elevation 470.055 feet MSL LANDFILLED MATERIAL, paper, plastic bags, wire (WASTE)
3	10	68/120	LANDFILLED MATERIAL, as above, dry paper, plastic, bits of wire (WASTE) CLAY, stiff, moist to damp, dark greenish gray 5GY 4/1 (WASTE) 15 LANDFILLED MATERIAL as above (WASTE) Bottom of Waste Elevation 459.055 feet MSL
4	20	120/120	CLAY, silty, stiff, moist, dark greenish gray to dark grayish brown 5GY 4/1 to 10YR 4/2, trace SAND (ALLUVIUM) CLAY, as above, increasing SILT and SAND, changes to light brownish gray 10YR 6/2 in bottom 18 inches (ALLUVIUM) 25 LIMESTONE GRAVEL, broken rounded clasts, light gray 10YR 7/1 with white N 8/1 rock flour, dry (BEDROCK)
5	30	60/60	LIMESTONE as above (BEDROCK)
			Bottom of borehole 34 feet

FEEZOR ENGINEERING, INC.

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Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
FEI Geologist: B. Abernathy
Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516296
Northing: 1069018
GS Elevation: 479.151 ft MSL
Drill Date: 1/19/2014

Borehole ID: WL-119
Sheet Number: 1 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	0		GRAVEL, loose, dry, with SAND and SILT, sub-angular (FILL)
1		47/60	GRAVEL and CLAY, dry, stiff, silty, brownish yellow 10YR 6/6 (FILL)
	5		
2		24/24	GRAVEL and CLAY, dry, stiff, silty, brownish yellow grades to dark gray 10YR 4/1 (FILL)
			GRAVEL and CLAY, dry, stiff, silty, dark gray 10YR 4/1 (FILL)
			Top of Waste Elevation 470.651 feet MSL
	10		
3		67/120	LANDFILLED MATERIAL, plastic, paper, metal, wire (WASTE)
	15		
	20		
4		57/120	LANDFILLED MATERIAL, plastic, paper, metal, wire (WASTE)
	25		
	30		
5		38/120	LANDFILLED MATERIAL, plastic, paper, metal, wire (WASTE)
	35		
	40		
6		61/120	LANDFILLED MATERIAL, plastic, paper, metal, wire (WASTE)
	45		

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Project Name: OU-1 Area 1 - Phase 1B
Project Number: BT-026
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Helper: Ben Williams, Henry Millard - Frontz Drilling
Health Phys: Alex Luna - Auxier & Associates
Data Logger:

Sampler: Matt Walton - Auxier & Associates
Driller: Jeremy Leckrone - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516296
Northing: 1069018
GS Elevation: 479.151 ft MSL
Drill Date: 1/19/2014

Borehole ID: WL-119
Sheet Number: 2 of 2

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	50		LANDFILLED MATERIAL, plastic, paper, metal, wire (WASTE)
			Bottom of Waste Elevation 430.151 feet MSL
7		87/120	SAND, fine grained, minor SILT, moist, well-sorted, coarsens downward, gray 10YR 6/1 (ALLUVIUM)
	55		
			Bottom of borehole 57 feet
	60		

Appendix B-2:

Phase 1C Core Photographic Logs

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Phone (217) 483-3118 Fax (217) 483-2356

SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 1-2	2/1-2/2/14				
GS Elev	472.552				
Dpth Top of Waste	6.0	1	42/60		0 - 5 feet
Elev	466.552	2	28/36		5 - 8 feet
		3	27/120		8 - 18 feet
		4	60/60		18 - 23 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 1-2	2/1-2/2/14				
(cont.)		4	60/60		18 - 23 feet
		5	19/60		23 - 28 feet
Dpth Bot of Waste	30.0	6	76/120	 	28 - 38 feet
Elev	442.552				

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 1-2	2/1-2/2/14				
(cont.)		6	76/120		28 - 38 feet
		7	59/60	 	38 - 43 feet
				Bottom of borehole 43 feet	

SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 1C-6	2/16/2014				
GS Elev	469.209				
Dpth Top of Waste	7.5	1	45/60		0 - 5 feet
Elev	461.709	2	30/48		5 - 9 feet
		3	71/120	 	9 - 19 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 1C-6	2/16/2014				
(cont.)		4	28/60		19 - 24 feet
Dpth Bot of Waste	26.0	5	60/60		24 - 29 feet
Elev	443.209				
		6	52/120		29 - 39 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 1C-6	2/16/2014				
(cont.)		6	52/120		29 - 39 feet
		7	109/120		39 - 49 feet
		8	112/120		49 - 59 feet
		9	108/120		59 - 69 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 1C-6	2/16/2014				
(cont.)		10	103/120		69 - 79 feet
		11	115/120		79 - 89 feet
		12	31/48		89 - 93 feet
				Bottom of borehole 93 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 2-2	1/31/2014				
GS Elev	475.160				
Dpth Top of Waste	4.0	1	60/60		0 - 5 feet
Elev	471.160	2	24/48		5 - 9 feet
		3	85/120		9 - 19 feet

SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 2-2	1/31/2014				
(cont.)		3	85/120		9 - 19 feet
		4	49/120	 	19 - 29 feet
		5	26/60		29 - 34 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 2-2	1/31/2014				
(cont.)		6	42/60		34 - 39 feet
		7	93/120	 	39 - 49 feet
Dpth Bot of Waste	48.0				
Elev	427.160	8	43/60		49 - 54 feet
				Bottom of borehole 54 feet	

SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 5-3	1/30/2014				
GS Elev	474.367				
Dpth Top of Waste	5.5	1	26/60		0 - 5 feet
Elev	468.867	2	23/36		5 - 8 feet
		3	6/120		8 - 18 feet
		4	23/60		18 - 23 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 5-3	1/30/2014				
(cont.)		5	52/60		23 - 28 feet
		6	60/60	 	28 - 33 feet
		7	43/60		33 - 38 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 5-3	1/30/2014				
(cont.)		8	98/120	  	38 - 48 feet
Dpth Bot of Waste	48.0				
Elev	426.367				
		9	48/60		48 - 53 feet
				Bottom of borehole 53 feet	

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 8-1	1/20/2014				
GS Elev	479.753				
		1	30/60		0 - 5 feet
		2	18/36		5 - 8 feet
Dpth Top of Waste	9.0	3	41/60		8 - 13 feet
Elev	470.753	4	39/60		13 - 18 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 8-1	1/20/2014				
(cont.)		5	5/60		18 - 23 feet
		6	4/60		23 - 28 feet
		7	3/60		28 - 33 feet
		8	0/60		33 - 38 feet
Dpth Bot of Waste	43.0	9	103/120	  	38 - 48 feet
Elev	436.753				

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 8-1	1/20/2014				
(cont.)		10	41/60		48 - 53 feet
				Bottom of borehole 53 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 12-5	1/15/2014				
GS Elev	478.857				
		1	44/60		0 - 5 feet
		2	7/48		5 - 9 feet
Dpth Top of Waste	9.0	3	62/120		9 - 19 feet
Elev	469.857	4	32/120		19 - 29 feet

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SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 12-5	1/15/2014				
(cont.)		5	73/120		29 - 39 feet
Dpth Bot of Waste	45.0	6	113/120		39 - 49 feet
Elev	433.857				
				Bottom of borehole 49 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 13-3	1/14/2014				
GS Elev	472.589				
		1	31/60		0 - 5 feet
		2	12/48		5 - 9 feet
Dpth Top of Waste	9.0	3	61/120		9 - 19 feet
Elev	463.589	4	52/120		19 - 29 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 13-3	1/14/2014				
(cont.)		5	90/120		29 - 39 feet
Dpth Bot of Waste	46.0	6	104/120		39 - 49 feet
Elev	426.589	7	53/60		49 - 54 feet
				Bottom of borehole 54 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 13-6	2/17/2014				
GS Elev	475.877				
		1	50/60		0 - 5 feet
		2	48/48		5 - 9 feet
		3	32/120		9 - 19 feet
Dpth Top of Waste	19.0	4	65/120		19 - 29 feet
Elev	456.877				

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 13-6	2/17/2014				
(cont.)		4	65/120		19 - 29 feet
		5	47/120		29 - 39 feet
		6	96/120	 	39 - 49 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 13-6	2/17/2014				
(cont.)		7	71/120		49 - 59 feet
		8	43/120		59 - 69 feet
		9	52/120		69 - 79 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 13-6	2/17/2014				
(cont.) Dpth Bot of Waste	86.1				
Elev	389.777				
		10	108/120	 	79 - 89 feet
				Bottom of borehole 89 feet	

SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-2	1/15/2014				
GS Elev	474.586				
		1	38/60		0 - 5 feet
		2	12/36		5 - 8 feet
Dpth Top of Waste	8.0	3	38/120		8 - 18 feet
Elev	466.586				
		4	36/120		18 - 28 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-2	1/15/2014				
(cont.)		5	75/120		28 - 38 feet
		6	48/120		38 - 48 feet
Dpth Bot of Waste	50.0	7	95/120	 	48 - 58 feet
Elev	424.586				

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-2	1/15/2014				
(cont.)		7	95/120		48 - 58 feet
				Bottom of borehole 58 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-4	1/19/2014				
GS Elev	474.433				
		1	15/60		0 - 5 feet
		2	14/36		5 - 8 feet
Dpth Top of Waste	8.5	3	7/120		8 - 18 feet
Elev	465.933	4	13/120		18 - 28 feet
Dpth Bot of Waste	38.0	5	28/120		28 - 38 feet
Elev	436.433				

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SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-4	1/19/2014				
(cont.)		6	111/120		38 - 48 feet
				Bottom of borehole 48 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-5	2/25/2014				
GS Elev	472.916				
		1	33/60		0 - 5 feet
		2	48/48		5 - 9 feet
		3	46/120		9 - 19 feet
Dpth Top of Waste	19.0	4	66/120		19 - 29 feet
Elev	453.916				

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-5	2/25/2014				
(cont.)		4	66/120		19 - 29 feet
		5	63/120	 	29 - 39 feet
		6	49/120		39 - 49 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-5	2/25/2014				
(cont.)		7	37/120		49 - 59 feet
		8	81/120	  	59 - 69 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-5	2/25/2014				
(cont.)		9	31/120		69 - 79 feet
Dpth Bot of Waste	86.0	10	70/120	  	79 - 89 feet
Elev	386.916				
				Bottom of borehole 89 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-7	1/16/2014				
GS Elev	473.293				
		1	45/60		0 - 5 feet
		2	33/48		5 - 9 feet
		3	100/120	 	9 - 19 feet
Dpth Top of Waste	12.5				
Elev	460.793				

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-7	1/16/2014				
(cont.)		4	46/120		19 - 29 feet
		5	67/120		29 - 39 feet
		6	49/120		39 - 49 feet
(cont.)		7	65/120		49 - 59 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-7	1/16/2014				
		8	56/120		59 - 69 feet
		9	63/120		69 - 79 feet
		10	120/120		79 - 89 feet
(cont.) Dpth Bot of Waste	98.0	11	112/120		89 - 99 feet
Elev	375.293				

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SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 14-7	1/16/2014	12	110/120		99 - 109 feet
				Bottom of borehole 109 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 15-2	1/17/2014				
GS Elev	476.482				
		1	33/60		0 - 5 feet
		2	30/48		5 - 9 feet
		3	69/120	 	9 - 19 feet

SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 15-2	1/17/2014				
(cont.) Dpth Top of Waste	25.5	4	100/120	 	19 - 29 feet
Elev	450.982				
Dpth Bot of Waste	28.0				
Elev	448.482				
		5	101/120	 	29 - 39 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 15-2	1/17/2014				
(cont.)		6	98/120		39 - 49 feet
		7	24/24		49 - 51 feet
				Bottom of borehole 51 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 16-3	1/18/2014				
GS Elev	470.739				
		1	6/60		0 - 5 feet
		2	31/36		5 - 8 feet
		3	74/120	 	8 - 18 feet
Dpth Top of Waste	13.0				
Elev	457.739				

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SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 16-3	1/18/2014				
(cont.) Dpth Bot of Waste	28.0	4	19/120		18 - 28 feet
Elev	442.739	5	83/120		28 - 38 feet
				Bottom of borehole 38 feet	

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 16-6	1/18/2014				
GS Elev	477.055				
		1	14/60		0 - 5 feet
Dpth Top of Waste	7.0	2	38/48		5 - 9 feet
Elev	470.055				
Dpth Bot of Waste	18.0	3	68/120		9 - 19 feet
Elev	459.055				

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic 16-6	1/18/2014				
(cont.)		4	120/120		19 - 29 feet
		4	120/120		19 - 29 feet
		5	60/60		29 - 34 feet
				Bottom of borehole 34 feet	

SAMPLE PHOTOS

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Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic WL119	1/20/2014				
GS Elev	479.151				
		1	47/60		0 - 5 feet
		2	24/24		5 - 7 feet
Dpth Top of Waste	8.5	3	67/120		7 - 17 feet
Elev	470.651				
		4	57/120		17 - 27 feet

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SAMPLE PHOTOS

Hole ID	Drill Date	Sample Run	Recovery (inches)	Photo Orientation Top → Bottom	Drilled Depth (below ground surface)
Sonic WL119	1/20/2014				
(cont.)		5	38/120		27 - 37 feet
		6	61/120		37 - 47 feet
Dpth Bot of Waste	49.0	7	87/120	 	47 - 57 feet
Elev	430.151				
				Bottom of borehole 57 feet	

Appendix B-3

Phase 1D Boring Logs

Engineering for a Better World
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Borehole ID: **1D-1**
Number of Sheets: 1

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515,747
Northing: 1,069,074
GS Elevation: 462.568
Drill Date: 6/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	39/60	GRAVEL for drilling pad (FILL) TOPSOIL with roots (FILL)
2	5	58/48	CLAY, silty, 10YR 4/1 dark gray, moisture increases with depth, with roots bottom 2/3 (FILL)
3	10	107/120	Top of Waste Elevation = 449.668 LANDFILLED MATERIAL, wood, bags, newspaper, glass, wire (WASTE) CLAY, silty, 10YR 4/2 dark grayish brown (WASTE) LANDFILLED MATERIAL, plastic pieces (WASTE) CLAY as above (WASTE)
4	20	118/120	LANDFILLED MATERIAL, plastic bags, mixed with GRAVEL and CLAY, blocky wood, paper, string (WASTE) CLAY, sandy, soft, 10YR 5/3 brown, abundant coarse angular SAND (WASTE) LANDFILLED MATERIAL, with CLAY throughout, bags, wire, highly decomposed, tree limbs, glass, tubing, flexible hose, fast food wrapper (WASTE)
5	30	105/120	Bottom of Waste Elevation = 431.568 SAND, fine grained, silty, wet, coarsens downward (ALLUVIUM)
	40		Bottom of Borehole = 39 feet

Engineering for a Better World
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Borehole ID: **1D-1**

Number of Sheets: 1

Client: RSI/Bridgeton Landfill, LLC

Project Location: Bridgeton, MO

Project Name: OU-1 Area 1 Phase 1D

FEI Project Number: BT-063

FEI Geologist: Bill Abernathy

Helpers: Ben Williams, Robert Fath - Frontz Drilling

Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.

Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI

Driller: Joe Henley - Frontz Drilling

Drilling Method: Sonic
Sampling Method: Sonic

Easting: 515,747
Northing: 1,069,074

GS Elevation: 462.568
Drill Date: 6/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-2**
Number of Sheets: 1

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515,784
Northing: 1,068,990
GS Elevation: 468.561
Drill Date: 6/11/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	20/60	CLAY & GRAVEL for drilling pad (FILL)
			TOPSOIL with roots (FILL)
2	5	17/48	SAND & GRAVEL, and silty CLAY (FILL)
			Top of Waste Elevation = 459.561
3	10	22/120	LANDFILLED MATERIAL, blocky wood, rigid plastic, & a cigarette pack in top portion, soft plastic dark grayish brown CLAY (10YR
	15		
4	20	84/120	
	25		
5	30	86/120	Bottom of Waste Elevation = 437.561
			SAND, fine grained, well sorted, wet (ALLUVIUM)
	35		SILT, dark brown 7.5YR 3/2, clayey, moist, well graded, with very fine SAND (ALLUVIUM)
	40		Bottom of Borehole = 39 feet

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-2**

Number of Sheets: 1

Client: RSI/Bridgeton Landfill, LLC

Project Location: Bridgeton, MO

Project Name: OU-1 Area 1 Phase 1D

FEI Project Number: BT-063

FEI Geologist: Bill Abernathy

Helpers: Ben Williams, Robert Fath - Frontz Drilling

Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.

Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI

Driller: Joe Henley - Frontz Drilling

Drilling Method: Sonic
Sampling Method: Sonic

Easting: 515,784
Northing: 1,068,990

GS Elevation: 468.561
Drill Date: 6/11/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		

Engineering for a Better World
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Borehole ID: **1D-3**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515,883
Northing: 1,068,969
GS Elevation: 472.250
Drill Date: 7/1/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	49/60	CLAY & TOPSOIL (FILL)
			ASPHALT, aggregate with residual tar, slight petroleum-based odor (FILL)
	5		CLAY, dark yellowish brown 10YR 4/6, silty, medium stiff (FILL)
			Top of Waste Elevation = 465.350
2		63/60	LANDFILLED MATERIAL, plastic bags, glass, asphalt, wood, mixed with CLAY in middle portion (WASTE)
	10		CLAY & GRAVEL, with minor WASTE, wet (WASTE)
3		112/108	LANDFILLED MATERIAL, wood, plastic bags, rigid plastic (WASTE)
	15		CLAY, hard, silty, dark yellowish brown 10YR 4/6 (WASTE)
	20		LANDFILLED MATERIAL, nondescript (WASTE)
4		85/120	CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
	25		LANDFILLED MATERIAL, nondescript (WASTE)
	30		CLAY, as above (WASTE)
5		86/120	LANDFILLED MATERIAL, nondescript (WASTE)
	35		
	40		Bottom of Waste Elevation = 431.000
6		86/120	

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Borehole ID: **1D-3**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515,883
Northing: 1,068,969
GS Elevation: 472.250
Drill Date: 7/1/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
6	45	86/120	SAND, clayey with sandy CLAY in top half, fine grained, dark yellowish brown 10YR 4/6 in bottom half (ALLUVIUM)
	50		Bottom of Borehole = 49 feet
	55		
	60		
	65		
	70		
	75		
	80		
	85		

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Borehole ID: **1D-3**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515,883
Northing: 1,068,969
GS Elevation: 472.250
Drill Date: 7/1/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-4**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,101
Northing: 1,068,805
GS Elevation: 496.422
Drill Date: 7/9/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	44/60	GRAVEL (FILL)
			CLAY, silty, dark grayish brown 10YR 4/2 bottom half (FILL)
	5		Top of Waste Elevation = 488.222
2		73/60	LANDFILLED MATERIAL, fabric fibers, wood, netting (WASTE)
3	10	120/108	CLAY, silty, minor to occasional WASTE, dark grayish brown 10YR 4/2 (WASTE)
	15		
4	20	120/120	LANDFILLED MATERIAL, abundant CLAY in top 2/3, highly decomposed, wire, plastic bags, drinking straw, rigid plastic (WASTE)
	25		
5	30	97/120	CLAY, as above (WASTE)
	35		LANDFILLED MATERIAL, plastic bags, wire, wood, tire pieces in bottom 2 feet (WASTE)
6	40	82/120	GRAVEL & CLAY, silty (WASTE)

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Borehole ID: **1D-4**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,101
Northing: 1,068,805
GS Elevation: 496.422
Drill Date: 7/9/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
6		82/120	
	50		LANDFILLED MATERIAL, abundant CLAY at top, wire, plastic bags, metal, glass, wood, GRAVEL in bottom 2/3 (WASTE)
7		120/120	
	55		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, plastic bags, wood, metal banding, nondescript bottom 2 feet (WASTE)
	60		
			CLAY, as above (WASTE)
8		117/120	LANDFILLED MATERIAL, nondescript in top half, with SILT bottom half (WASTE)
	65		Bottom of Waste Elevation = 431.842
			SAND, fine grained (ALLUVIUM)
	70		Bottom of Borehole = 69 feet
	75		
	80		
	85		

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Borehole ID: **1D-4**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,101
Northing: 1,068,805
GS Elevation: 496.422
Drill Date: 7/9/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-5**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,040
Northing: 1,068,658
GS Elevation: 487.751
Drill Date: 7/14/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	0		GRAVEL (FILL)
1	5	95/120	CLAY, silty, dark yellowish brown 10YR 4/4 (FILL)
			Top of Waste Elevation = 482.251
	10		LANDFILLED MATERIAL, plastic bags, woven material (WASTE)
2	15	121/108	GRAVEL & CLAY, silty (WASTE)
			LANDFILLED MATERIAL, foil, tubing, wood, CLAY bands (WASTE)
	20		CLAY, silty, wet, occasional WASTE, dark yellowish brown 10YR 4/4 (WASTE)
3		81/120	LANDFILLED MATERIAL, nondescript (WASTE)
	25		CLAY, dry to moist, very silty, dark yellowish brown 10YR 4/4 (WASTE)
			LANDFILLED MATERIAL, twine, plastic bags, wood, a doorknob (WASTE)
	30		CLAY, as above (WASTE)
4		108/120	LANDFILLED MATERIAL, plastic bags, wood, black zones (WASTE)
	35		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, plastic bags in top, otherwise nondescript (WASTE)
	40		
5		111/120	CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-5**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,040
Northing: 1,068,658
GS Elevation: 487.751
Drill Date: 7/14/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
5	45	111/120	LANDFILLED MATERIAL, tangled wire, plastic bags (WASTE) LANDFILLED MATERIAL, tangled wire, plastic bags (WASTE) GRAVEL & CLAY, minor WASTE (WASTE)
6	50 55	97/120	LANDFILLED MATERIAL, occasional CLAY bands, glass, plastic bags, wood, hose, angle iron (WASTE) GRAVEL & CLAY, silty (WASTE)
7	60 65	88/120	LANDFILLED MATERIAL, nondescript top 1-ft, ink pen, plastic bags, wire (WASTE) Bottom of Waste Elevation = 425.251 SAND, fine grained, well sorted (ALLUVIUM)
	70 75 80 85		Bottom of Borehole = 69 feet

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Borehole ID: **1D-5**

Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC

Project Location: Bridgeton, MO

Project Name: OU-1 Area 1 Phase 1D

FEI Project Number: BT-063

FEI Geologist: Bill Abernathy

Helpers: Ben Williams, James Arwood - Frontz Drilling

Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI

Driller: Joe Henley - Frontz Drilling

Drilling Method: Sonic
Sampling Method: Sonic

Easting: 516,040
Northing: 1,068,658

GS Elevation: 487.751
Drill Date: 7/14/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		

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Borehole ID: **1D-6**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,161
Northing: 1,068,733
GS Elevation: 512.707
Drill Date: 7/11/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	0		GRAVEL & SAND (FILL)
			CLAY, silty, SAND in top half, some GRAVEL (FILL)
			Top of Waste Elevation = 509.807
1	5	83/120	LANDFILLED MATERIAL, blocky wood, plastic bags, aluminum scrap, rubber, hard plastic (WASTE)
	10		
2		131/108	GRAVEL & CLAY, silty (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
	15		
3	20	147/120	LANDFILLED MATERIAL, plastic bags, wire, wood, paper, rubber, blocky wood, GRAVEL, paper cup at base (WASTE)
	25		
	30		GRAVEL & CLAY, silty (WASTE)
4		90/120	LANDFILLED MATERIAL, plastic bags, wood, carpet pad (WASTE)
	35		GRAVEL & CLAY, silty, minor WASTE (WASTE)
			LANDFILLED MATERIAL, nondescript top 1/3, remainder highly decomposed (WASTE)
	40		
5		105/120	CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-6**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,161
Northing: 1,068,733
GS Elevation: 512.707
Drill Date: 7/11/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		CLAY, silty, trace WASTE (WASTE)
5		105/120	LANDFILLED MATERIAL, wood (WASTE)
	50		CLAY, silty, hard, dry, dark yellowish brown 10YR 4/4 (WASTE)
6		124/120	LANDFILLED MATERIAL, wood, some blocky, sawdust, plastic banding, paper (WASTE)
	55		CLAY, silty dry (WASTE)
			LANDFILLED MATERIAL, plastic bags, wood, rubber, nondescript bottom half (WASTE)
	60		GRAVEL & CLAY, silty (WASTE)
7		103/120	LANDFILLED MATERIAL, pad of paper forms (WASTE)
	65		CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
			LANDFILLED MATERIAL, wire, rigid plastic, plastic bags, glass (WASTE)
	70		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
8		106/120	CLAY, as above (WASTE)
	75		LANDFILLED MATERIAL, paper, wire (WASTE)
			CLAY, as above (WASTE)
	80		LANDFILLED MATERIAL, nondescript (WASTE)
9		87/120	Bottom of Waste Elevation = 428.957
	85		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-6**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,161
Northing: 1,068,733
GS Elevation: 512.707
Drill Date: 7/11/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			SAND, very fine to fine-grained (ALLUVIUM)
	90		Bottom of Borehole = 89 feet

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Borehole ID: **1D-7**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,158
Northing: 1,068,654
GS Elevation: 513.346
Drill Date: 7/7/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	53/60	GRAVEL, SAND, & CLAY (FILL)
			CLAY, silty, dark yellowish brown 10YR 4/4, dry, very stiff (FILL)
			Top of Waste Elevation = 510.546
2	5	89/60	LANDFILLED MATERIAL, with silty CLAY top 1/3, PVC pieces at top, plastic bags, paper cups, plastic bottle (WASTE)
3	10	105/108	GRAVEL & CLAY, silty (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
	15		CLAY, as above (WASTE)
4	20	119/120	LANDFILLED MATERIAL, plastic bags, wood, metal, rigid plastic (blue), CLAY band near middle, glass, carpet, foil (WASTE)
	25		
5	30	122/120	CLAY, silty, minor WASTE at contacts, dark yellowish brown 10YR 4/4 (WASTE)
			LANDFILLED MATERIAL, PVC, plastic bags, conduit, wire (WASTE)
	35		CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
6	40	110/120	LANDFILLED MATERIAL, wire, with CLAY bottom half (WASTE)
			CLAY, as above (WASTE)
			LANDFILLED MATERIAL, black coating in top 2 ft, paper, wood, metal banding

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Borehole ID: **1D-7**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,158
Northing: 1,068,654
GS Elevation: 513.346
Drill Date: 7/7/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		LANDFILLED MATERIAL, black coating in top 2 ft, paper, wood, metal banding, nondescript bottom 2 ft (WASTE)
6		110/120	LANDFILLED MATERIAL, black coating in top 2 ft, paper, wood, metal banding, nondescript bottom 2 ft (WASTE)
	50		CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
7		94/120	LANDFILLED MATERIAL, nondescript (WASTE)
	55		CLAY, as above (WASTE)
	60		LANDFILLED MATERIAL, plastic bags, wood (WASTE)
8		98/120	CLAY, as above (WASTE)
	65		LANDFILLED MATERIAL, paper, glass, wire, blue bags (WASTE)
	70		
9		115/120	
	75		CLAY, silty, dark yellowish brown (WASTE)
	80		LANDFILLED MATERIAL, wad of cloth in top 2 ft, nondescript remainder (WASTE)
10		141/120	GRAVEL & CLAY, mottled, elevated alpha & gamma readings (WASTE)
	85		LANDFILLED MATERIAL, wood, noticeable chemical odor (WASTE)

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Borehole ID: **1D-7**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,158
Northing: 1,068,654
GS Elevation: 513.346
Drill Date: 7/7/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			LANDFILLED MATERIAL, wood, noticeable chemical odor (WASTE)
			SAND, very fine grained, silty, slight odor, some staining from overlying material (WASTE/ALLUVIUM)
11	90	55/60	Bottom of Waste Elevation = 424.346
11		55/60	SAND, very fine to fine grained (ALLUVIUM)
	95		Bottom of Borehole = 94 feet
	100		
	105		
	110		

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Borehole ID: **1D-8**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,238
Northing: 1,068,811
GS Elevation: 516.742
Drill Date: 7/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	0		CLAY, silty, minor GRAVEL, dark brown 10YR 3/3 (FILL)
			Top of Waste Elevation = 512.442
1	5	97/120	LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
			LANDFILLED MATERIAL, metal pieces (WASTE)
	10		CLAY, as above (WASTE)
2	15	91/108	LANDFILLED MATERIAL, mostly nondescript, gypsum residue in middle portion (WASTE)
			CLAY, as above (WASTE)
3	20 25	125/120	LANDFILLED MATERIAL, wood, rigid plastic, cloth, plastic bags, pegboard, wire, nondescript bottom 1 ft (WASTE)
	30		CLAY, silty, with minor WASTE (duct tape) in top 1/3, hard (WASTE)
4	35	127/120	LANDFILLED MATERIAL, concrete plug, mop(?), paper, plastic bags, wood, rigid plastic (WASTE)
	40		CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
5		81/120	LANDFILLED MATERIAL, abundant CLAY at base, wire, yarn, plastic bags, wood (WASTE)

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-8**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,238
Northing: 1,068,811
GS Elevation: 516.742
Drill Date: 7/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		CLAY, as above (WASTE)
5		81/120	LANDFILLED MATERIAL, nondescript top 1/3, abundant CLAY in bottom 2/3 (WASTE)
	50		CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
6		103/120	LANDFILLED MATERIAL, nondescript (WASTE)
	55		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, plastic film, blocky wood, plastic bags (WASTE)
	60		CLAY, silty, brown 10YR 4/3 (WASTE)
			LANDFILLED MATERIAL, with CLAY (WASTE)
			CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
7		108/120	LANDFILLED MATERIAL, nondescript (WASTE)
	65		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, as above (WASTE)
	70		LANDFILLED MATERIAL, plastic bags, blocky wood, wad of bags at base (WASTE)
			CLAY, soft, silty (WASTE)
8		96/120	LANDFILLED MATERIAL, nondescript (WASTE)
	75		CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
	80		LANDFILLED MATERIAL, nondescript (WASTE)
9		101/120	CLAY, as above (WASTE)
	85		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-8**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,238
Northing: 1,068,811
GS Elevation: 516.742
Drill Date: 7/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		LANDFILLED MATERIAL, nondescript, wood in bottom 1 ft (WASTE)
10		109/120	Bottom of Waste Elevation = 426.822
10	95	109/120	SAND, and SILT (ALLUVIUM)
	100		Bottom of Borehole = 99 feet
	105		
	110		

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Borehole ID: **1D-9**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,224
Northing: 1,068,678
GS Elevation: 518.893
Drill Date: 6/8/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	51/60	CLAY, silty, dark yellowish brown 10YR 4/6 mottled with yellowish brown 10YR 5/6, slightly moist, less SILT with depth, trace roots (FILL)
2	5	44/48	SILT, clayey, moist, soft, grades to moderately plastic silty CLAY in bottom half, strong brown 7.5YR 4/6 (FILL)
			Top of Waste Elevation = 511.393
			LANDFILLED MATERIAL, wood, plastic (WASTE)
3	10	84/120	CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
			LANDFILLED MATERIAL, Styrofoam, foam rubber, PVC, wood, vinyl tubing (WASTE)
	15		GRAVEL & CLAY, angular clasts, plastic CLAY in bottom 8-in, dry to slightly moist (WASTE)
			LANDFILLED MATERIAL, plastic bags, wood (WASTE)
4	20	120/120	CLAY, silty, moist, soft to medium stiff, minor WASTE near bottom, dark brown 10YR 3/3
			LANDFILLED MATERIAL, plastic, wood, PVC, plastic bottle, foil (WASTE)
	25		CLAY, hard, dry, silty (WASTE)
			LANDFILLED MATERIAL, wood, diaper, clay tile pieces, rigid plastic, minor glass fragments (WASTE)
5	30	102/120	CLAY, and clayey SILT, soft, moist, silty, yellowish brown 10YR 5/8 (WASTE)
			LANDFILLED MATERIAL, with CLAY and plastic bags (WASTE)
	35		CLAY, slightly silty, yellowish brown 10YR 5/6 grading to dark grayish brown 10YR 4/2, very stiff, dry to slightly moist (WASTE)
6	40	41/120	LANDFILLED MATERIAL, glass fragments, plastic bags, wood, minor GRAVEL,

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-9**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,224
Northing: 1,068,678
GS Elevation: 518.893
Drill Date: 6/8/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		decomposed (WASTE)
6		41/120	LANDFILLED MATERIAL, glass fragments, plastic bags, wood, minor GRAVEL, decomposed (WASTE)
	50		
7		0/120	No core recovered
	55		
	60		
8		0/120	No core recovered
	65		
	70		CLAY, silty, wet & soft to moist and stiff, abundant coarse SAND, brown 7.5YR 4/4 (WASTE)
9		82/120	LANDFILLED MATERIAL, plastic, foil, glass, carbon black, wood fibers, highly decomposed (WASTE)
	75		CLAY, stiff, plastic, brown 7.5YR 4/4 (WASTE)
			LANDFILLED MATERIAL, shredder material, wood (WASTE)
	80		CLAY, SAND, & GRAVEL, coarse-grained, subangular clasts in soft CLAY, very dusky red 10R 2.5/2 (WASTE)
10		60/120	LANDFILLED MATERIAL, rigid plastic shards mixed with GRAVEL and SAND (WASTE)
	85		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-9**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,224
Northing: 1,068,678
GS Elevation: 518.893
Drill Date: 6/8/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			GRAVEL & CLAY, some WASTE, dark brown 10YR 3/3 (WASTE)
			LANDFILLED MATERIAL, rigid plastic pieces, plastic bags, steel shard in top foot, wood (abundant in bottom 3/4), minor glass, occasional CLAY bands, highly decomposed in bottom 3/4 (WASTE)
11	90	43/120	
11	95	43/120	LANDFILLED MATERIAL, rigid plastic pieces, plastic bags, steel shard in top foot, wood (abundant in bottom 3/4), minor glass, occasional CLAY bands, highly decomposed in bottom 3/4 (WASTE)
	100		Bottom of Waste Elevation = 419.563
12		68/60	SAND, fine grained, grades from dark brown 7.5YR 3/4 to yellowish brown 10YR 5/6 near bottom contact (ALLUVIUM)
			LIMESTONE, crystalline, flinty, no fossils, pale brown 10YR 6/3 (BEDROCK)
	105		Bottom of Borehole = 104 feet
	110		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-10**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,319
Northing: 1,068,899
GS Elevation: 503.074
Drill Date: 6/29/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	36/60	SILT, clayey, and silty CLAY (FILL)
	5		CLAY, silty, dark yellowish brown 10YR 4/4 (FILL)
			Top of Waste Elevation = 497.374
2		26/60	LANDFILLED MATERIAL, wood (WASTE)
			CLAY, as above (WASTE)
	10		
3		112/108	
	15		LANDFILLED MATERIAL, wood, plastic bags, holiday decoration, hard plastic, foam rubber, Styrofoam, carpet, plastic toy, wadded bags (WASTE)
	20		
4		120/120	
	25		
			CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
	30		LANDFILLED MATERIAL, wood, paper, plastic bags, rubber, rigid plastic (WASTE)
5		49/120	
	35		CLAY, silty, firm, minor WASTE (WASTE)
	40		LANDFILLED MATERIAL, nondescript top half, with silty CLAY and wire strands in bottom half, black residue at base (WASTE)
6		82/120	

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-10**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,319
Northing: 1,068,899
GS Elevation: 503.074
Drill Date: 6/29/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
6	45	82/120	LANDFILLED MATERIAL, nondescript top half, with silty CLAY and wire strands in bottom half, black residue at base (WASTE)
			CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
7	50	111/120	LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, as above (WASTE)
			LANDFILLED MATERIAL, abundant CLAY, wood, plastic bags, rubber, wire, aluminum can (WASTE)
	55		GRAVEL & CLAY, silty (WASTE)
8	60	85/120	LANDFILLED MATERIAL, drinking straw, plastic bags, nails, wood, rubber hose, sawdust (WASTE)
	65		
			CLAY & GRAVEL, soft, light gray (WASTE)
9	70	109/120	LANDFILLED MATERIAL, nondescript top 2/3, with sandy CLAY bottom 1/3 (WASTE)
	75		Bottom of Waste Elevation = 427.244
			SILT, sandy, grades into fine SAND (ALLUVIUM)
10	80	48/60	SAND, fine grained, some silty CLAY lenses (ALLUVIUM)
	85		Bottom of Borehole = 84 feet

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-10**

Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC

Project Location: Bridgeton, MO

Project Name: OU-1 Area 1 Phase 1D

FEI Project Number: BT-063

FEI Geologist: Bill Abernathy

Helpers: Ben Williams, James Arwood - Frontz Drilling

Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.

Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI

Driller: Joe Henley - Frontz Drilling

Drilling Method: Sonic
Sampling Method: Sonic

Easting: 516,319
Northing: 1,068,899

GS Elevation: 503.074
Drill Date: 6/29/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-11**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,311
Northing: 1,068,739
GS Elevation: 522.303
Drill Date: 6/23/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	49/48	GRAVEL, fill for drilling pad (FILL) CLAY & TOPSOIL, silty (FILL)
			Top of Waste Elevation = 518.703
2	5	60/72	LANDFILLED MATERIAL, wad of plastic bags, blue foam rubber pads (WASTE) CLAY, silty, medium stiff, moist, dark grayish brown and brown 10YR 4/2 - 4/3 (WASTE)
	10		LANDFILLED MATERIAL, plastic bags, paper cup, Styrofoam (WASTE)
3		110/108	CLAY, silty, with occasional WASTE, light gray 10YR 7/2 (WASTE)
	15		LANDFILLED MATERIAL, plastic, wood, batting, paper, CLAY seams throughout bottom 1/3 (WASTE)
4	20	101/120	
	25		CLAY, silty, stiff, dry, dark gray 10YR 4/1 (WASTE)
5	30	91/120	LANDFILLED MATERIAL, hard plastic, cloth, highly decomposed wood, plastic bags, wire/cable, tubing, insulation, fiber board, CLAY mixed in zone 3 feet from base (WASTE)
	35		
6	40	100/120	

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-11**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,311
Northing: 1,068,739
GS Elevation: 522.303
Drill Date: 6/23/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		CLAY, silty, with wire pieces, dark grayish brown 10YR 4/2 (WASTE)
6		100/120	LANDFILLED MATERIAL, wood, glass, plastic in top half, nondescript bottom half (WASTE)
	50		CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
7		90/120	LANDFILLED MATERIAL, nondescript (WASTE)
	55		CLAY, as above (WASTE)
	60		LANDFILLED MATERIAL, wire, plastic bags, black residue at base (WASTE)
8		72/120	CLAY, as above (WASTE)
	65		LANDFILLED MATERIAL, wire, plastic bags, thick wire strands in bottom half (WASTE)
	70		CLAY, as above (WASTE)
9		79/120	LANDFILLED MATERIAL, wood, plastic, glass in top half, nondescript bottom half (WASTE)
	75		
	80		
10		110/120	CLAY, silty, stiff with soft zones, dark grayish brown 10YR 4/2 (WASTE)
	85		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-11**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,311
Northing: 1,068,739
GS Elevation: 522.303
Drill Date: 6/23/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			CLAY/GRAVEL/ASPHALT, black residue, abundant subrounded pea gravel (WASTE)
			CLAY & GRAVEL, silty, hard, dry (WASTE)
11	90	92/120	
11	95	92/120	LANDFILLED MATERIAL, with CLAY and GRAVEL mixed throughout, some asphalt residue (WASTE)
			Bottom of Waste Elevation = 423.303
	100		SAND, fine to medium grained (ALLUVIUM)
12		65/84	CLAY & GRAVEL, subrounded to rounded (ALLUVIUM)
	105		LIMESTONE, pale brown 10YR 6/3 (BEDROCK)
			Bottom of Borehole = 106 feet
	110		

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Borehole ID: **1D-12**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,435
Northing: 1,068,881
GS Elevation: 505.890
Drill Date: 6/26/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	43/60	GRAVEL (FILL) CLAY, silty, medium stiff, some roots, dark yellowish brown 10YR 4/6 (FILL)
2	5	34/60	Top of Waste Elevation = 499.990
3	10 15	79/108	LANDFILLED MATERIAL, wood, plastic bags, paper cup, wads of plastic bags, rigid plastic and drywall residue in bottom half (WASTE)
4	20 25	96/120	
5	30 35	0/120	No core recovered
6	40	92/120	LANDFILLED MATERIAL, nondescript (WASTE) CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-12**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,435
Northing: 1,068,881
GS Elevation: 505.890
Drill Date: 6/26/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		LANDFILLED MATERIAL, paper (WASTE)
			CLAY, as above (WASTE)
6		92/120	LANDFILLED MATERIAL, highly decomposed (WASTE)
			CLAY, as above (WASTE)
	50		LANDFILLED MATERIAL, metal flatware in top half, remainder nondescript (WASTE)
			CLAY, silty, minor SAND, dark yellowish brown 10YR 4/6 (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
7		108/120	CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
	55		
	60		
			LANDFILLED MATERIAL, plastic bottle cap, glass, wood, paper, rigid plastic, mixed with silty CLAY bottom 1/3, foam rubber, tubing (WASTE)
8		62/120	
	65		
			CLAY, silty, minor WASTE, wire, dark yellowish brown 10YR 4/6 (WASTE)
	70		LANDFILLED MATERIAL, nondescript top 3 inches, silty CLAY and GRAVEL in remainder, asphalt and nails at base (WASTE)
			Bottom of Waste Elevation = 434.470
9		64/120	
	75		CLAY & GRAVEL, silty, abundant GRAVEL, medium stiff to stiff matrix, grades to predominantly soft, wet silty CLAY in bottom 1/3 (ALLUVIUM)
	80		
			SAND, fine grained (ALLUVIUM)
10		105/120	
	85		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-12**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,435
Northing: 1,068,881
GS Elevation: 505.890
Drill Date: 6/26/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			SILT, clayey, hard, dry, friable in zones, yellowish brown 10YR 5/6 (ALLUVIUM)
	90		Bottom of Borehole = 89 feet

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Borehole ID: **1D-13**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,399
Northing: 1,068,786
GS Elevation: 520.512
Drill Date: 6/3/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0 – 5	50/60	CLAY, very stiff, silty, abundant subrounded GRAVEL inclusions top 1 foot, dry to slightly moist, dark yellowish brown 10YR 4/6 (FILL)
2	5 – 10	29/48	Top of Waste Elevation = 514.712 LANDFILLED MATERIAL, nondescript (WASTE) CLAY, as above (WASTE)
3	10 – 15	117/120	
4	20 – 25	120/120	LANDFILLED MATERIAL, wire in shoe at 19 feet bgs, wood in middle portion, nondescript remainder (WASTE)
5	30 – 35	120/120	CLAY, silty, stiff, slightly moist, dark yellowish brown 10YR 4/6 (WASTE) LANDFILLED MATERIAL, nondescript (WASTE)
6	40	86/120	CLAY, silty, medium stiff, minor GRAVEL clasts, dark yellowish brown 10YR 4/6 (WASTE)

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-13**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,399
Northing: 1,068,786
GS Elevation: 520.512
Drill Date: 6/3/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		CLAY, silty, medium stiff, minor GRAVEL clasts, dark yellowish brown 10YR 4/6 (WASTE)
6		86/120	LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, as above (WASTE)
	50		LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, stiff, slightly moist to dry, some coarse SAND, dark yellowish brown 10YR 4/6 (WASTE)
7		120/120	LANDFILLED MATERIAL, nondescript (WASTE)
	55		CLAY, silty, with fine SAND, dark yellowish brown 10YR 4/6 (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, as above (WASTE)
	60		LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, minor coarse SAND, dark yellowish brown 10YR 4/6 (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, as above (WASTE)
8		120/120	LANDFILLED MATERIAL, nondescript (WASTE)
	65		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, as above (WASTE)
	70		LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, stiff, slightly moist, dark yellowish brown 10YR 4/6 (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
9		91/120	CLAY, as above (WASTE)
	75		LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, moist, medium stiff, dark yellowish brown 10YR 4/6 (WASTE)
	80		LANDFILLED MATERIAL, nondescript (WASTE)
			Bottom of Waste Elevation = 440.432
			CLAY, silty, moist, medium stiff, dark yellowish brown 10YR 4/6 (ALLUVIUM)
10		120/120	
	85		GRAVEL & SAND, poorly sorted, subrounded to subangular (ALLUVIUM)

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-13**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,399
Northing: 1,068,786
GS Elevation: 520.512
Drill Date: 6/3/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		
11		120/120	CLAY & GRAVEL, with SAND (ALLUVIUM)
11	95	120/120	LIMESTONE, with CLAY seams, very pale brown 10YR 8/2 (BEDROCK)
	100		Bottom of Borehole = 99 feet
	105		
	110		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-14**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,382
Northing: 1,068,730
GS Elevation: 522.532
Drill Date: 6/5 - 6/6/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	40/60	CLAY, silty dry crumbles, with GRAVEL in bottom foot, brown 10YR 4/3 (FILL)
	5		Top of Waste Elevation = 516.832
2		51/48	LANDFILLED MATERIAL, mixed with silty CLAY (WASTE) CLAY, stiff, very silty, brown 10YR 4/3 (WASTE)
3	10	54/120	LANDFILLED MATERIAL, nondescript, mixed with silty CLAY and SAND in zone 3 feet above base (WASTE)
	15		
4	20	120/120	CLAY, as above (WASTE)
	25		
5	30	61/120	LANDFILLED MATERIAL, nondescript, 3-in silty CLAY lens (brown 10YR 4/3) about 3 feet from the top (WASTE)
	35		
6	40	108/120	

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-14**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,382
Northing: 1,068,730
GS Elevation: 522.532
Drill Date: 6/5 - 6/6/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		
6		108/120	CLAY, silty, very stiff, brown 10YR 4/3 (WASTE)
	50		LANDFILLED MATERIAL, nondescript (WASTE)
7		116/120	CLAY, silty, with WASTE, brown 10YR 4/3 (WASTE)
	55		LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, brown 10YR 4/3 (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
	60		CLAY, silty, with GRAVEL fragments and clasts, brown 10YR 4/3 (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
8		88/120	CLAY, silty, dark yellowish brown 10YR 3/4 (WASTE)
	65		LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, with angular coarse SAND inclusions (10-15%), dark yellowish brown 10YR 3/4 (WASTE)
			LANDFILLED MATERIAL, mixed with silty CLAY (WASTE)
	70		CLAY, silty, moist, dark yellowish brown 10YR 3/4 (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, dark yellowish brown 10YR 3/4 (WASTE)
9		89/120	LANDFILLED MATERIAL, shredder material(?) (WASTE)
	75		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
	80		Bottom of Waste Elevation = 443.532
			GRAVEL, subangular, with abundant poorly sorted SAND and silty CLAY (ALLUVIUM)
10		105/120	CLAY, silty, very stiff, dark brown 10YR 3/3 (ALLUVIUM)
	85		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-14**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,382
Northing: 1,068,730
GS Elevation: 522.532
Drill Date: 6/5 - 6/6/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			LIMESTONE, crystalline on fresh surface, very pale brown 10YR 8/2 (BEDROCK)
	90		Bottom of Borehole = 89 feet

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-15**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,196
Northing: 1,068,612
GS Elevation: 516.098
Drill Date: 6/24 - 6/25/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	50/60	CLAY & GRAVEL, silty (FILL)
			Top of Waste Elevation = 513.098
	5		LANDFILLED MATERIAL, wads of plastic bags, rigid plastic, and wood in top half, nondescript bottom half (WASTE)
2		77/60	CLAY, silty, dark grayish brown 10YR 4/2 (WASTE)
	10		
3		120/108	LANDFILLED MATERIAL, blocky wood, plastic woven material, sawdust, sand bags/sand in top 3 feet, CLAY, GRAVEL, plastic tubing, plastic bags, wood, and rubber in middle portion, plastic syringe and plywood in bottom 5 feet (WASTE)
	15		
	20		
4		120/120	CLAY, silty, dry, friable, dark grayish brown 10YR 4/2 (WASTE)
	25		LANDFILLED MATERIAL, plastic bags, foil, wood, wire, paper (WASTE)
	30		
			CLAY & GRAVEL, silty, with wood (WASTE)
5		120/120	CLAY, as above (WASTE)
	35		LANDFILLED MATERIAL, some wood, plastic bags, plastic pieces, blue woven plastic (WASTE)
	40		
6		62/120	

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-15**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,196
Northing: 1,068,612
GS Elevation: 516.098
Drill Date: 6/24 - 6/25/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		CLAY & GRAVEL, silty (WASTE)
6		62/120	LANDFILLED MATERIAL, wood, thin wire, plastic pieces (WASTE)
	50		CLAY, silty, with minor WASTE, dark grayish brown 10YR 4/2 (WASTE)
			LANDFILLED MATERIAL, plastic bags, black residue (WASTE)
7		70/120	CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
	55		LANDFILLED MATERIAL, wood, with CLAY seams throughout bottom 3/4 (WASTE)
	60		
8		91/120	
	65		CLAY, silty, dry crumbles, dark yellowish brown 10YR 4/6 (WASTE)
			LANDFILLED MATERIAL, paper, rigid plastic, plastic bags, foil, glass, duct tape (WASTE)
	70		
9		96/120	CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
	75		LANDFILLED MATERIAL, wad of plastic bags, particle board, rubber, wire (WASTE)
	80		CLAY, as above (WASTE)
10		104/120	LANDFILLED MATERIAL, wood, plastic bags (WASTE)
	85		CLAY, silty, dry, stiff, dark yellowish brown 10YR 4/6 (WASTE)

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-15**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,196
Northing: 1,068,612
GS Elevation: 516.098
Drill Date: 6/24 - 6/25/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		LANDFILLED MATERIAL, wood (WASTE)
			Bottom of Waste Elevation = 426.768
11		74/120	
11	95	74/120	SAND, fine grained, well sorted, dark brown 7.5YR 3/4 (ALLUVIUM)
			LIMESTONE, CLAY balls at contact, pale brown 10YR 6/3 (BEDROCK)
	100		Bottom of Borehole = 99 feet
	105		
	110		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-16**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,048
Northing: 1,068,620
GS Elevation: 485.581
Drill Date: 7/13/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	77/120	GRAVEL, loose (FILL)
			CLAY, silty, dark grayish brown 10YR 4/2 (FILL)
	5		Top of Waste Elevation = 480.781
			LANDFILLED MATERIAL, plastic bags, rigid plastic (WASTE)
2	10	129/108	GRAVEL & CLAY (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
	15		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, plastic bags, rigid plastic, wood fibers (WASTE)
3	20	91/120	CLAY, silty, wet, soft (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
	25		CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
			LANDFILLED MATERIAL, glass (WASTE)
4	30	72/120	CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
	35		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, as above (WASTE)
5	40	110/120	LANDFILLED MATERIAL, nondescript (WASTE)
			CLAY, silty, trace WASTE (WASTE)

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-16**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,048
Northing: 1,068,620
GS Elevation: 485.581
Drill Date: 7/13/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		LANDFILLED MATERIAL, nondescript top and bottom 1/3, white plastic, paper, and fibers with ammonia odor in the middle (WASTE)
5		110/120	CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE)
			LANDFILLED MATERIAL, wood, rigid plastic, carpet (WASTE)
	50		CLAY, as above (WASTE)
			LANDFILLED MATERIAL, nondescript (WASTE)
6		97/120	CLAY, as above (WASTE)
	55		LANDFILLED MATERIAL, nondescript (WASTE)
			CONCRETE, aggregate in sand/cement matrix (WASTE)
	60		Bottom of Waste Elevation = 426.581
7		24/60	SAND, fine grained, minor GRAVEL at top (ALLUVIUM)
	65		Bottom of Borehole = 64 feet
	70		
	75		
	80		
	85		

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Borehole ID: **1D-16**

Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC

Project Location: Bridgeton, MO

Project Name: OU-1 Area 1 Phase 1D

FEI Project Number: BT-063

FEI Geologist: Bill Abernathy

Helpers: Ben Williams, James Arwood - Frontz Drilling

Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI

Driller: Joe Henley - Frontz Drilling

Drilling Method: Sonic
Sampling Method: Sonic

Easting: 516,048
Northing: 1,068,620

GS Elevation: 485.581
Drill Date: 7/13/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-17**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515,846
Northing: 1,068,865
GS Elevation: 472.920
Drill Date: 6/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	46/60	GRAVEL, fill for drilling pad (FILL) CLAY & GRAVEL, silty, loose, dry (FILL)
2	5	45/48	Top of Waste Elevation = 467.320 LANDFILLED MATERIAL, plastic bags, PVC, wood, paper (WASTE) CLAY, silty, with minor WASTE, dark grayish brown 10YR 4/2 (WASTE)
3	10 15	107/120	LANDFILLED MATERIAL, rigid plastic, plastic bags, wet silty CLAY in top half, wood, wire/metal, some sandy CLAY in bottom 1/3 (WASTE) CLAY, stiff, dry, silty, dark grayish brown 10YR 4/2 (WASTE)
4	20 25	128/120	LANDFILLED MATERIAL, minor CLAY, plastic bags (WASTE) CLAY, stiff to medium stiff, very silty (WASTE) LANDFILLED MATERIAL, glass, blocky wood, wire, plastic bags (WASTE) GRAVEL, and asphalt residue, minor WASTE in bottom, dark reddish brown 5YR 2.5/2 (WASTE)
5	30 35	100/120	LANDFILLED MATERIAL, highly decomposed, abundant GRAVEL in top, pieces of rubber tires, wire, string (WASTE) Bottom of Waste Elevation = 439.750 SAND, fine grained, coarsens down (ALLUVIUM)
6	40	116/120	SAND, fine to medium grained, well graded, wet (ALLUVIUM)

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-17**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 515,846
Northing: 1,068,865
GS Elevation: 472.920
Drill Date: 6/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
6	45	116/120	SAND, fine to medium grained, well graded, wet (ALLUVIUM)
	50		Bottom of Borehole = 49 feet
	55		
	60		
	65		
	70		
	75		
	80		
	85		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-17**

Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC

Project Location: Bridgeton, MO

Project Name: OU-1 Area 1 Phase 1D

FEI Project Number: BT-063

FEI Geologist: Bill Abernathy

Helpers: Ben Williams, Robert Fath - Frontz Drilling

Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.

Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI

Driller: Joe Henley - Frontz Drilling

Drilling Method: Sonic
Sampling Method: Sonic

Easting: 515,846
Northing: 1,068,865

GS Elevation: 472.920
Drill Date: 6/10/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-18**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,056
Northing: 1,068,574
GS Elevation: 482.022
Drill Date: 6/11 - 6/12/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	0		CLAY, silty, medium stiff, moist, trace coarse SAND, strong brown 7.5YR 5/8 (FILL)
			Top of Waste Elevation = 480.822
			LANDFILLED MATERIAL, foam rubber, yarn, plastic bags, minor wood (WASTE)
1	5	40/120	CLAY, as above (WASTE)
			LANDFILLED MATERIAL, blocky wood, detergent bottle (WASTE)
	10		
2		125/108	CLAY & GRAVEL, dark yellowish brown mottled with brown (10YR 4/6 & 7.5YR 5/2), moist, minor WASTE mixed in (WASTE)
	15		LANDFILLED MATERIAL, with CLAY seams throughout top half, wood/sawdust, PVC, plastic wads, loose silty SAND in bottom half, abundant SILT, wood fibers, rigid plastic (WASTE)
	20		
			CLAY, stiff, slightly silty (WASTE)
			LANDFILLED MATERIAL, rigid plastic, plastic bags, wood, wire (WASTE)
3		123/120	CLAY & SILT, silty CLAY and clayey SILT, dark grayish brown 10YR 4/2 (WASTE)
	25		LANDFILLED MATERIAL, w/ abn CLAY top, wood, vinyl, elect. cord, plastic (WASTE)
			CLAY, very stiff (WASTE)
	30		
4		132/120	LANDFILLED MATERIAL, wire, plastic bags, wood, interbedded CLAY throughout lower 12 feet, sawdust, cloth, wire strands (WASTE)
	35		
	40		
5		114/120	CLAY & GRAVEL, dark grayish brown 10YR 4/2, very silty (WASTE)
			CONCRETE, aggregate in weakly cemented matrix (WASTE)

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-18**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,056
Northing: 1,068,574
GS Elevation: 482.022
Drill Date: 6/11 - 6/12/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		CONCRETE, aggregate in weakly cemented matrix (WASTE)
			Bottom of Waste Elevation = 438.182
5		114/120	SILT, grades from clayey to silty CLAY to silty SAND, dark brown 10YR 3/3 (ALLUVIUM)
			SAND, silty, very fine to fine grained, loose, dark yellowish brown 10YR 4/6 (ALLUVIUM)
	50		
6		107/120	SAND, fine to very fine, coarsens down, occasional SILT lenses in top (ALLUVIUM)
	55		
	60		Bottom of Borehole = 59 feet
	65		
	70		
	75		
	80		
	85		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-18**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, Robert Fath - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,056
Northing: 1,068,574
GS Elevation: 482.022
Drill Date: 6/11 - 6/12/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	90		

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-19**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,259
Northing: 1,068,621
GS Elevation: 521.112
Drill Date: 6/30/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0	45/60	CLAY, silty, dry, very stiff, trace roots (FILL)
			Top of Waste Elevation = 518.712
2	5	77/60	
3	10	102/108	
	15		LANDFILLED MATERIAL, plastic bags, painted board, elastic lace, paper, wood, plastic bottle, Styrofoam, silty CLAY and GRAVEL, and wire in top half, highly decomposed with abundant sandy CLAY, wood, plastic bags, wire, rigid plastic, foil, and a rug in bottom half (WASTE)
4	20	115/120	
	25		
5	30	120/120	CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
	35		LANDFILLED MATERIAL, glass bottle (WASTE)
			CLAY, as above (WASTE)
6	40	117/120	LANDFILLED MATERIAL, nondescript top, chunks of rubber, plastic wad, wire, plastic bags below that (WASTE)

Engineering for a Better World
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-19**
Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.
Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,259
Northing: 1,068,621
GS Elevation: 521.112
Drill Date: 6/30/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
	45		CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
6		117/120	LANDFILLED MATERIAL, plastic bags, cloth, old wood, abundant CLAY in bottom half, wire (WASTE)
	50		
7		90/120	CLAY, silty, dry, stiff, some plastic bags mixed in (WASTE)
	55		LANDFILLED MATERIAL, syringe, plastic netting, wood, paper, minor GRAVEL, plastic bags, rigid plastic (WASTE)
	60		
			CLAY, silty, with occasional WASTE, dark yellowish brown 10YR 4/6 (WASTE)
8		106/120	LANDFILLED MATERIAL, wood, wire (WASTE)
	65		CLAY, silty, occasional wood WASTE, dark yellowish brown 10YR 4/6 (WASTE)
			LANDFILLED MATERIAL, plastic bags, paper (WASTE)
	70		CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
9		21/120	LANDFILLED MATERIAL, plastic bags, minor recovery due to rock plug in sample barrel (WASTE)
	75		
	80		CLAY, as above, some WASTE at top contact (WASTE)
			LANDFILLED MATERIAL, wood, plastic bags, cotton fibers (WASTE)
			CLAY, silty, dark yellowish brown 10YR 4/6 (WASTE)
10		116/120	LANDFILLED MATERIAL, plastic bags (WASTE)
	85		Bottom of Waste Elevation = 436.282

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Borehole ID: **1D-19**

Number of Sheets: 3

Client: RSI/Bridgeton Landfill, LLC

Project Location: Bridgeton, MO

Project Name: OU-1 Area 1 Phase 1D

FEI Project Number: BT-063

FEI Geologist: Bill Abernathy

Helpers: Ben Williams, James Arwood - Frontz Drilling

Health Physicists: Jim Drake, Alex Luna - Auxier & Assoc.

Downhole Loggers: Jim Drake, Alex Luna - Auxier & Assoc.

Sampler: Bill Abernathy - FEI

Driller: Joe Henley - Frontz Drilling

Drilling Method: Sonic
Sampling Method: Sonic

Easting: 516,259
Northing: 1,068,621

GS Elevation: 521.112
Drill Date: 6/30/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			CLAY & GRAVEL, silty, dry, broken, dark yellowish brown 10YR 4/6, wood waste displaced from above is positioned at bottom of run (ALLUVIUM)
11	90	27/60	
11		27/60	LIMESTONE, very hard discs, pale red 10R 7/2 (BEDROCK)
	95		Bottom of Borehole = 94 feet
	100		
	105		
	110		

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-20**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,227
Northing: 1,068,540
GS Elevation: 517.696
Drill Date: 7/15/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
1	0 – 5	86/120	GRAVEL (FILL) CLAY, silty, dark yellowish brown 10YR 4/4 (FILL) Top of Waste Elevation = 514.096 LANDFILLED MATERIAL, wire, wood, baseball, steel washer (WASTE)
2	10 – 15	105/108	GRAVEL & CLAY (WASTE) LANDFILLED MATERIAL, wood, plastic bags, PVC, wire (WASTE)
3	20 – 25	75/120	CLAY, hard, silty, dark yellowish brown 10YR 4/4 (WASTE) LANDFILLED MATERIAL, foil, plastic bags, wood in top 1/3, nondescript bottom 2/3 (WASTE)
4	30 – 35	105/120	CLAY, hard, silty, with GRAVEL (WASTE)
5	40	131/120	LANDFILLED MATERIAL, wood, plastic bags, metal fork, plastic cap, nondescript bottom 5 feet (WASTE)

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FEEZOR ENGINEERING, INC.

Borehole ID: **1D-20**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,227
Northing: 1,068,540
GS Elevation: 517.696
Drill Date: 7/15/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
5	45	131/120	LANDFILLED MATERIAL, wood, plastic bags, metal fork, plastic cap, nondescript bottom 5 feet (WASTE)
6	50	105/120	CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE) LANDFILLED MATERIAL, nondescript (WASTE) CLAY, as above (WASTE) LANDFILLED MATERIAL, mostly nondescript, some carpet (WASTE)
7	55 60 65	110/120	CLAY, as above (WASTE) LANDFILLED MATERIAL, nondescript (WASTE) CLAY, as above (WASTE) LANDFILLED MATERIAL, nondescript (WASTE) GRAVEL & CLAY, silty, minor WASTE (WASTE)
8	70 75	128/120	LANDFILLED MATERIAL, nondescript (WASTE) CLAY, silty, dark yellowish brown 10YR 4/4 (WASTE) LANDFILLED MATERIAL, nondescript (WASTE) CLAY, as above (WASTE) LANDFILLED MATERIAL, nondescript (WASTE) CLAY, silty, white powder residue, some WASTE (WASTE) Bottom of Waste Elevation = 438.696
9	80 85	131/120	GRAVEL & CLAY, silty, dry, crumbly, no WASTE noted, silty CLAY bottom 1 ft, minor GRAVEL throughout, dark yellowish brown 10YR 4/4 (ALLUVIUM)

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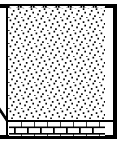
FEEZOR ENGINEERING, INC.

Borehole ID: **1D-20**
Number of Sheets: 2

Client: RSI/Bridgeton Landfill, LLC
Project Location: Bridgeton, MO
Project Name: OU-1 Area 1 Phase 1D
FEI Project Number: BT-063
FEI Geologist: Bill Abernathy
Helpers: Ben Williams, James Arwood - Frontz Drilling
Health Physicists: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.
Downhole Loggers: J. Drake, A. Luna, A. Jahr - Auxier & Assoc.

Sampler: Bill Abernathy - FEI
Driller: Joe Henley - Frontz Drilling
Drilling Method: Sonic
Sampling Method: Sonic
Easting: 516,227
Northing: 1,068,540
GS Elevation: 517.696
Drill Date: 7/15/2015

Sample Number	Depth in Feet	Recovery in Inches	Soil/Rock Description
			LIMESTONE (BEDROCK)
10	90	16/12	Bottom of Borehole = 90 feet



Appendix B-4

Phase 1D Core Photographic Logs

CORE PHOTOS

FEEZOR ENGINEERING, INC.
Engineering for a Better World
3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-1	6/10/2015				
GS Elev	462.568				
		1	39/60		0 - 5 feet
		2	58/48		5 - 9 feet
Top of Waste 12.9 feet		3	107/120	 	9 - 19 feet
Elev	449.668				

(continued on next page)

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-1	6/10/2015				
GS Elev	462.568				
		4	118/120		19 - 29 feet
Bottom of Waste 31.0 feet		5	105/120		29 - 39 feet
Elev	431.568				
				Bottom of borehole 39 feet	

FEEZOR ENGINEERING, INC.
Engineering for a Better World

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-2	6/11/2015				
GS Elev 468.561					
		1	20/60		0 - 5 feet
		2	17/48		5 - 9 feet
Top of Waste 9.0 feet Elev 459.561		3	22/120		9 - 19 feet
		4	84/120		19 - 29 feet
				(continued on next page)	

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FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-2	6/11/2015				
GS Elev 468.561					
		4	84/120		19 - 29 feet
Bottom of Waste 31.0 feet Elev 437.561		5	86/120		29 - 39 feet
				Bottom of borehole 39 feet	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-3	7/1/2015				
GS Elev	472.250				
		1	49/60		0 - 5 feet
Top of Waste 6.9 feet		2	63/60		5 - 10 feet
Elev	465.350	3	112/108	 	10 - 19 feet

(continued on next page)

Engineering for a Better World FEEZOR ENGINEERING, INC.			CORE PHOTOS		3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-3	7/1/2015				
GS Elev	472.250				
		4	85/120	 	19 - 39 feet
		5	86/120	 	29 - 39 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-3	7/1/2015				
GS Elev	472.250				
Bottom of Waste 41.3 feet Elev 430.950		6	86/120		39 - 49 feet
				Bottom of borehole 49 feet	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-4	7/9/2015				
GS Elev	496.422				
		1	44/60		0 - 5 feet
Top of Waste 8.2 feet Elev 488.222		2	73/60		5 - 10 feet
		3	120/108	 	10 - 19 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-4	7/9/2015				
GS Elev	496.422				
		4	120/120		19 - 29 feet
		5	97/120	 	29 - 39 feet
		6	82/120		39 - 49 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date
1D-4	7/9/2015
GS Elev	496.422

Bottom of Waste
64.6 feet
Elev 431.822

Sample Run	Recovery (inches)	Core Orientation (Top → Bottom)	Drilled Interval (feet below ground surface)
6	82/120		39 - 49 feet
7	120/120		49 - 59 feet
8	117/120	 	59 - 69 feet
		Bottom of borehole 69 feet	

CORE PHOTOS

FEEZOR ENGINEERING, INC.
Engineering for a Better World
3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-5	7/14/2015				
GS Elev 487.751					
Top of Waste 5.5 feet Elev 482.251		1	95/120		0 - 10 feet
		2	121/108	 	10 - 19 feet
		3	81/120		19 - 29 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.			CORE PHOTOS		3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-5	7/14/2015				
GS Elev	487.751				
		3	81/120		19 - 29 feet
		4	108/120	 	29 - 39 feet
		5	111/120		39 - 49 feet
				(continued on next page)	

CORE PHOTOS

FEEZOR ENGINEERING, INC.
Engineering for a Better World
3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-5	7/14/2015				
GS Elev	487.751				
		5	111/120		39 - 49 feet
		6	97/120		49 - 59 feet

(continued on next page)

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-5	7/14/2015				
GS Elev	487.751				
Bottom of Waste 62.5 feet Elev 425.251		7	88/120		59 - 69 feet
				Bottom of borehole 69 feet	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-6	7/11/2015				
GS Elev	512.707				
Top of Waste 2.9 feet Elev 509.807		1	83/120		0 - 10 feet
		2	131/108		10 - 19 feet
		3	147/120		19 - 29 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-6	7/11/2015				
GS Elev	512.707				
		3	147/120		19 - 29 feet
		4	90/120	 	29 - 39 feet
		5	105/120		39 - 49 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-6	7/11/2015				
GS Elev	512.707				
		5	105/120		39 - 49 feet
		6	124/120	 	49 - 59 feet
		7	103/120		59 - 69 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-6	7/11/2015				
GS Elev	512.707				
		7	103/120		59 - 69 feet
		8	106/120		69 - 79 feet
		9	87/120		79 - 89 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-6	7/11/2015				
GS Elev	512.707				
Bottom of Waste 83.8 feet Elev 428.957		9	87/120		79 - 89 feet
				Bottom of borehole 89 feet	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-7	7/7/2015				
GS Elev	513.346				
Top of Waste 2.8 feet Elev 510.546		1	53/60		0 - 5 feet
		2	89/60		5 - 10 feet
		3	105/108	 	10 - 19 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.			CORE PHOTOS		3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-7	7/7/2015				
GS Elev	513.346				
		4	119/120		19 - 29 feet
		5	122/120		29 - 39 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.			CORE PHOTOS		3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-7	7/7/2015				
GS Elev	513.346				
		6	110/120		39 - 49 feet
		7	94/120		49 - 59 feet
		8	98/120		59 - 69 feet
				(continued on next page)	

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FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-7	7/7/2015				
GS Elev	513.346				
		9	115/120		69 - 79 feet
		10	141/120		79 - 89 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-7	7/7/2015				
GS Elev	513.346				
		10	141/120		79 - 89 feet
Bottom of Waste 89.0 feet					
Elev	424.346				

(continued on next page)

Engineering for a Better World FEEZOR ENGINEERING, INC.				CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-7	7/7/2015				
GS Elev	513.346				
		11	55/60		89 - 94 feet
				Bottom of borehole 94 feet	

FEEZOR ENGINEERING, INC.
Engineering for a Better World

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-8	7/10/2015				
GS Elev	516.742				
Top of Waste 4.3 feet Elev 512.442		1	97/120		0 - 10 feet
		2	91/108	 	10 - 19 feet
		3	125/120		19 - 29 feet

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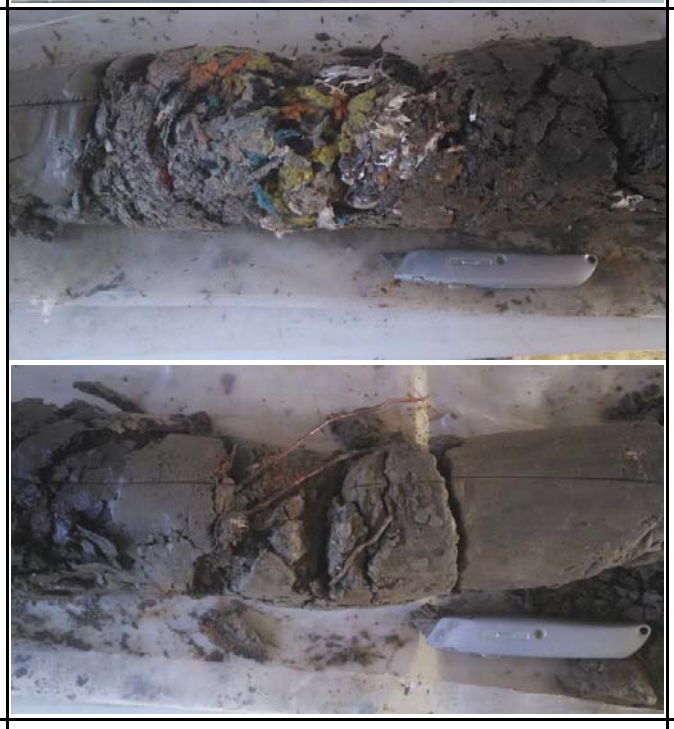
FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-8	7/10/2015				
GS Elev	516.742				
		3	125/120		19 - 29 feet
		4	127/120		29 - 39 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-8	7/10/2015				
GS Elev	516.742				
		4	127/120		29 - 39 feet
		5	81/120		39 - 49 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-8	7/10/2015				
GS Elev	516.742				
		5	81/120		39 - 49 feet
		6	103/120		49 - 59 feet
		7	108/120	 	59 - 69 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-8	7/10/2015				
GS Elev	516.742				
		8	96/120		69 - 79 feet
		9	101/120		79 - 89 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-8	7/10/2015				
GS Elev 516.742					
		9	101/120		79 - 89 feet
Bottom of Waste 89.9 feet Elev 426.842		10	109/120	 	89 - 99 feet
				Bottom of borehole 99 feet	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-9	6/8/2015				
GS Elev	518.893				
		1	51/60		0 - 5 feet
Top of Waste 7.5 feet		2	44/48		5 - 9 feet
Elev	511.393	3	84/120	 	9 - 19 feet

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FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-9	6/8/2015				
GS Elev	518.893				
		3	84/120		9 - 19 feet
		4	120/120		19 - 29 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-9	6/8/2015				
GS Elev	518.893				
		4	120/120		19 - 29 feet
		5	102/120	 	29 - 39 feet
		6	41/120		39 - 49 feet
				(continued on next page)	No recovery from 49 - 69 feet (Sample Runs #7 and #8)

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-9	6/8/2015				
GS Elev	518.893				
		9	82/120	 	69 - 79 feet
		10	60/120	 	79 - 89 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.				CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-9	6/8/2015				
GS Elev	518.893				
		10	60/120	 	79 - 89 feet
		11	43/120	 	89 - 99 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-9	6/8/2015				
GS Elev	518.893				
Bottom of Waste 99.3 feet Elev 419.593		12	68/60		99 - 104
				Bottom of borehole 104 feet	

CORE PHOTOS

FEEZOR ENGINEERING, INC.
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3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-10	6/29/2015				
GS Elev	503.074				
		1	36/60		0 - 5 feet
Top of Waste 5.7 feet		2	26/60		5 - 10 feet
Elev	497.374	3	112/108		10 - 19 feet
		4	120/120		19 - 29 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-10	6/29/2015				
GS Elev	503.074				
		4	120/120		19 - 29 feet
		5	49/120		29 - 39 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
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Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-10	6/29/2015				
GS Elev	503.074				
		6	82/120		39 - 49 feet
		7	111/120		49 - 59 feet
		8	85/120		59 - 69 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-10	6/29/2015				
GS Elev	503.074				
		9	109/120		69 - 79 feet
Bottom of Waste 75.8 feet Elev 427.274		10	48/60		79 - 84 feet
				Bottom of borehole 84 feet	

FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-11	6/23/2015				
GS Elev 522.303					
Top of Waste 3.6 feet Elev 518.703		1	49/48		0 - 4 feet
		2	60/72	 	4 - 10 feet
		3	110/108		10 - 19 feet

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FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-11	6/23/2015				
GS Elev	522.303				
		3	110/108		10 - 19 feet
		4	101/120	 	19 - 29 feet
		5	91/120		29 - 39 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.				CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-11	6/23/2015				
GS Elev	522.303				
		5	91/120		29 - 39 feet
		6	100/120		39 - 49 feet
		7	90/120		49 - 59 feet
		8	72/120		59 - 69 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.				CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-11	6/23/2015				
GS Elev	522.303				
		9	79/120	 	69 - 79 feet
		10	110/120	 	79 - 89 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
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Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-11	6/23/2015				
GS Elev	522.303				
		10	110/120		79 - 89 feet
		11	92/120	  	89 - 99 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-11	6/23/2015				
GS Elev 522.303					
Bottom of Waste 99.0 feet Elev 423.303		11	92/120		89 - 99 feet
		12	65/84		99 - 106 feet
				Bottom of borehole 106 feet	

FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-12	6/26/2015				
GS Elev	505.890				
		1	43/60		0 - 5 feet
Top of Waste 5.9 feet		2	34/60		5 - 10 feet
Elev	499.990	3	79/108	 	10 - 19 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-12	6/26/2015				
GS Elev	505.890				
		4	96/120	 	19 - 29 feet
					No recovery from 29 - 39 feet (Sample Run #5)
		6	92/120	 	39 - 49 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-12	6/26/2015				
GS Elev	505.890				
		7	108/120		49 - 59 feet
		8	62/120		59 - 69 feet
Bottom of Waste 71.4 feet Elev 434.490		9	64/120		69 - 79 feet
				(continued on next page)	

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FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-12	6/26/2015				
GS Elev	505.890				
		10	105/120		79 - 89 feet
				Bottom of borehole 89 feet	

FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-13	6/3/2015				
GS Elev 520.512					
		1	50/60		0 - 5 feet
Top of Waste 5.8 feet Elev 514.712		2	29/48		5 - 9 feet
		3	117/120	 	9 - 19 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-13	6/3/2015				
GS Elev	520.512				
		4	120/120		19 - 29 feet
		5	120/120		29 - 39 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-13	6/3/2015				
GS Elev	520.512				
		6	86/120		39 - 49 feet
		7	120/120		49 - 59 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-13	6/3/2015				
GS Elev	520.512				
		8	120/120		59 - 69 feet
		9	91/120		69 - 79 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
Engineering for a Better World

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-13	6/3/2015				
GS Elev	520.512				
		9	91/120		69 - 79 feet
Bottom of Waste 80.1 feet		10	120/120		79 - 89 feet
Elev	440.412				

(continued on next page)

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-13	6/3/2015				
GS Elev	520.512				
		11	120/120		89 - 99 feet
				Bottom of borehole 99 feet	

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FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-14	6/5 thru 6/6/2015				
GS Elev 522.532					
		1	40/60		0 - 5 feet
Top of Waste 5.7 feet Elev 516.832		2	51/48		5 - 9 feet
		3	54/120	 	9 - 19 feet

(continued on next page)

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-14	6/5 thru 6/6/2015				
GS Elev	522.532				
		4	120/120		19 - 29 feet
		5	61/120		29 - 39 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-14	6/5 thru 6/6/2015				
GS Elev	522.532				
		5	61/120		29 - 39 feet
		6	108/120		39 - 49 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-14	6/5 thru 6/6/2015				
GS Elev	522.532				
		7	116/120	 	49 - 59 feet
		8	88/120	 	59 - 69 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-14	6/5 thru 6/6/2015				
GS Elev	522.532				
		9	89/120		69 - 79 feet
Bottom of Waste 79.0 feet Elev 443.532					

(continued on next page)

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-14	6/5 thru 6/6/2015				
GS Elev	522.532				
		10	105/120		79 - 89 feet
				Bottom of borehole 89 feet	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-15	6/24 thru 6/25/2015				
GS Elev	516.098				
Top of Waste 3.0 feet Elev 513.098		1	50/60		0 - 5 feet
		2	77/60		5 - 10 feet
		3	120/120	 	10 - 19 feet

(continued on next page)

FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-15	6/24 thru 6/25/2015				
GS Elev	516.098				
		4	120/120		19 - 29 feet
		5	120/120		29 - 39 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-15	6/24 thru 6/25/2015				
GS Elev	516.098				
		5	120/120		29 - 39 feet
		6	62/120	 	39 - 49 feet
		7	70/120		49 - 59 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-15	6/24 thru 6/25/2015				
GS Elev	516.098				
		7	70/120		49 - 59 feet
		8	91/120		59 - 69 feet
		9	96/120	 	69 - 79 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-15	6/24 thru 6/25/2015				
GS Elev	516.098				
		9	96/120		69 - 79 feet
		10	104/120		79 - 89 feet
Bottom of Waste 89.3 feet		11	74/120		89 - 99 feet
Elev	426.798				
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-15	6/24 thru 6/25/2015				
GS Elev	516.098				
		11	74/120		89 - 99 feet
				Bottom of borehole 99 feet	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-16	7/13/2015				
GS Elev 485.581					
Top of Waste 4.8 feet Elev 480.781		1	77/120		0 - 10 feet
		2	129/108		10 - 19 feet
		3	91/120		19 - 29 feet
		4	72/120		29 - 39 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.				CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-16	7/13/2015				
GS Elev	485.581				
		5	110/120	 	39 - 49 feet
		6	97/120	 	49 - 59 feet
Bottom of Waste 59.0 feet					
Elev	426.581				
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-16	7/13/2015				
GS Elev	485.581				
		7	24/60		59 - 64 feet
				Bottom of borehole 64 feet	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-17	6/10/2015				
GS Elev 472.920					
		1	46/60		0 - 5 feet
Top of Waste 5.6 feet Elev 467.320		2	45/48		5 - 9 feet
		3	107/120	 	9 - 19 feet
				(continued on next page)	

CORE PHOTOS

FEEZOR ENGINEERING, INC.
Engineering for a Better World
3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-17	6/10/2015				
GS Elev	472.920				
		4	128/120	 	19 - 29 feet
Bottom of Waste 33.2 feet		5	100/120	 	29 - 39 feet
Elev	439.720				
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-17	6/10/2015				
GS Elev	472.920				
		6	116/120	 	39 - 49 feet
				Bottom of borehole 49 feet	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-18	6/11 thru 6/12/2015				
GS Elev	482.022				
Top of Waste 1.2 feet Elev 480.822		1	40/120		0 - 10 feet
		2	125/108	 	10 - 19 feet
		3	123/120		19 - 29 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-18	6/11 thru 6/12/2015				
GS Elev	482.022				
		3	123/120		19 - 29 feet
		4	132/120		29 - 39 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation	Drilled Interval (feet below ground surface)
1D-18	6/11 thru 6/12/2015			Top → Bottom	
GS Elev	482.022				
Bottom of Waste 43.8 feet		5	114/120		39 - 49 feet
Elev	438.222				

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FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-18	6/11 thru 6/12/2015				
GS Elev	482.022				
		6	107/120		49 - 59 feet
				Bottom of borehole 59 feet	

CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-19	6/30/2015				
GS Elev 521.112					
Top of Waste 2.4 feet Elev 518.712		1	45/60		0 - 5 feet
		2	77/60	 	5 - 10 feet
		3	102/108		10 - 19 feet

(continued on next page)

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-19	6/30/2015				
GS Elev	521.112				
		3	102/108		10 - 19 feet
		4	115/120	 	19 - 29 feet
		5	120/120		29 - 39 feet
				(continued on next page)	

Engineering for a Better World FEEZOR ENGINEERING, INC.				CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629
Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-19	6/30/2015				
GS Elev	521.112				
		5	120/120	 	29 - 39 feet
		6	117/120	 	39 - 49 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-19	6/30/2015				
GS Elev	521.112				
		7	90/120		49 - 59 feet
		8	106/120	 	59 - 69 feet
		9	21/120		69 - 79 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-19	6/30/2015				
GS Elev	521.112				
Bottom of Waste 84.8 feet Elev 436.312		10	116/120		79 - 89 feet
		11	27/60		89 - 94
				Bottom of borehole 94 feet	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-20	7/15/2015				
GS Elev	517.696				
Top of Waste 3.6 feet Elev 514.096		1	86/120		0 - 10 feet
		2	105/108	 	10 - 19 feet
		3	75/120		19 - 29 feet
				(continued on next page)	

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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-20	7/15/2015				
GS Elev	517.696				
		3	75/120		19 - 29 feet
		4	105/120		29 - 39 feet
		5	131/120	 	39 - 49 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-20	7/15/2015				
GS Elev	517.696				
		6	105/120		49 - 59
		7	110/120		59 - 69 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.
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CORE PHOTOS

3405 Hollenberg Dr, Bridgeton, MO 63044
406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-20	7/15/2015				
GS Elev	517.696				
		8	128/120		69 - 79 feet
Bottom of Waste 79.0 feet					
Elev	438.696				
		9	131/120		79 - 89 feet
				(continued on next page)	

FEEZOR ENGINEERING, INC.	CORE PHOTOS	3405 Hollenberg Dr, Bridgeton, MO 63044 406 East Walnut St, Chatham, IL 62629

Hole ID	Drill Date	Sample Run	Recovery (inches)	Core Orientation Top → Bottom	Drilled Interval (feet below ground surface)
1D-20	7/15/2015				
GS Elev	517.696				
		10	16/12		89 - 90 feet
				Bottom of borehole 90 feet	

Appendix B-5

McLaren Hart Area 1 RI Boring Logs

Prepared for:

The West Lake Respondent Group

Prepared by:

McLaren/Hart Environmental Engineering Corporation
1000 Town Center, Suite 600
Southfield, Michigan 48075

Prepared by:

David J. Heinze
Senior Associate Engineer

Reviewed by:

Bruce E. Ehleringer
Managing Principal Geoscientist

November 26, 1996

Project No. 07.0803035

REC'D SEP 19 1997

SOIL BORING/SURFACE SAMPLE INVESTIGATION REPORT WEST LAKE LANDFILL RADIOLOGICAL AREAS 1 AND 2 BRIDGETON, MISSOURI

TABLE 2-4
SUMMARY OF SOIL BORING LOCATIONS, ELEVATIONS, AND TERMINATION DEPTHS - AREA 1
WEST LAKE LANDFILL, BRIDGETON, MISSOURI

BORING DESIGNATION	PLANNED NORTHING	PLANNED EASTING	PLANNED ELEV.	DATE DRILLED	NORTHING	EASTING	ELEVATION (Ft. MSL)	TERMINATION DEPTH (Ft. bgs.)	DEPTH OF ELEVATED GAMMA READINGS (Ft bgs.) TOP	BOTTOM	BASIS FOR TERMINATING BORING (eg. perched water, native alluvium, etc.)
WL-101	1,069,529.56	516,273.13	457.72	8/4/95	1,069,549.55	516,317.21	456.5	25	NOT ENCOUNTERED		Alluvium
WL-102	1,069,270.53	515,975.83	461.91	8/4/95	1,069,260.46	515,974.05	462.8	34	2.0	4.0	Refusal; rock
WL-103	1,069,408.90	516,736.90	450.69	8/7/95	1,069,407.36	516,737.06	450.9	25	NOT ENCOUNTERED		Alluvium
WL-104	1,069,542.14	516,599.93	451.34	8/7/95	1,069,575.47	516,602.77	449.8	35	NOT ENCOUNTERED		Alluvium
WL-105 (D-3)	1,069,148.99	515,889.32	466.54	8/8/95-8/9/95	1,069,136.26	515,871.62	467.2	109	0.5	11.0	Monitoring Well
WL-105 (I-4)	1,069,148.99	515,889.32	466.54	8/10/95	1,069,148.42	515,889.50	466.0	79	4.5	9.0	Monitoring Well
WL-105 (S-5)	1,069,148.99	515,889.32	466.54	8/15/95	1,069,155.84	515,901.03	465.7	49	1.5	5.5	Monitoring Well
WL-106A	1,069,307.95	516,069.94	464.56	8/11/95	1,069,301.64	516,082.18	465.4	20	2.5	5.0	Landfill. Relocate to investigate elevated gamma readings.
WL-106B	1,069,307.95	516,069.94	464.56	8/11/95	1,069,317.25	516,061.92	462.8	35	0.0	1.0	Alluvium
WL-107	1,068,908.00	516,264.96	486.91	9/5/95	1,068,909.52	516,254.31	486.1	52	NOT ENCOUNTERED		Alluvium
WL-108	1,069,152.01	516,395.95	472.76	9/5/95	1,069,144.21	516,379.68	472.5	22	NOT ENCOUNTERED		Perched water encountered at 16'
WL-109A	1,068,947.01	516,522.00	485.82	9/6/95	1,068,932.92	516,509.67	485.5	50	NOT ENCOUNTERED		Alluvium
WL-109B (D-14)	1,068,947.01	516,522.00	485.82	9/7/95-9/11/95	1,068,947.16	516,523.17	484.5	52	NOT ENCOUNTERED		Alluvium
WL-109C	1,068,947.01	516,522.00	485.82	9/12/95	1,068,961.12	516,528.43	483.9	57	NOT ENCOUNTERED		Refusal; rock
WL-109D	1,068,947.01	516,522.00	485.82	9/12/95-9/13/95	1,068,947.38	516,504.97	485.6	60	NOT ENCOUNTERED		Alluvium
WL-110	1,068,889.01	516,645.03	484.41	9/6/95	1,068,889.01[1]	516,645.03[1]	484.41 [1]	56	NOT ENCOUNTERED		Alluvium; elevated temperature
WL-111	1,069,176.92	516,589.23	475.06	9/11/95	1,069,187.35	516,583.61	474.5	52	NOT ENCOUNTERED		Alluvium
WL-112	1,069,407.80	516,599.06	466.56	9/11/95	1,069,379.45	516,628.22	467.6	42	NOT ENCOUNTERED		Alluvium
WL-113	1,069,499.99	516,468.98	465.79	9/25/95	1,069,483.19	516,469.95	467.0	45	3.5	4.0	Alluvium
WL-114	1,069,409.53	516,335.24	467.40	9/25/95	1,069,391.53	516,338.57	468.3	45	4.0	5.0	Alluvium
WL-115	1,069,292.95	516,401.47	469.01	9/26/95	1,069,298.98	516,395.13	468.9	41	NOT ENCOUNTERED		Alluvium
WL-116	1,069,078.99	516,165.99	474.46	9/26/95	1,069,083.49	516,160.60	474.3	20	NOT ENCOUNTERED		Perched water encountered at 8'
WL-117	1,069,224.01	516,221.97	467.98	9/27/95	1,069,237.40	516,221.33	467.6	41	6.0	7.0	Alluvium
WL-118	1,069,409.53	516,335.24	467.40	9/28/95	1,069,411.09	516,304.95	465.8	15	NOT ENCOUNTERED		Landfill; terminated - high gamma not encountered
WL-119	1,069,031.14	516,289.26	477.40	9/29/95	1,069,031.14	516,289.26	477.4	50	NOT ENCOUNTERED		Alluvium
WL-120	1,069,060.99	516,771.00	472.51	9/29/95	1,069,053.64	516,846.57	474.7	52	NOT ENCOUNTERED		Landfill; terminated - elevated temperature

[1] Planned location, not surveyed
( ) - Monitoring well designation
Ft. MSL - feet above mean sea level
Ft. bgs. - feet below ground surface

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SOIL BORING LOGS
GAMMA LOGS
WELL CONSTRUCTION DETAILS
AQUIFER TESTING RESULTS

from McLaren/Hart Soil and GW reports (11/96)

WEST LAKE LANDFILL

Area 1 Boring Logs

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-101	07.0803035.003.002	1 of 1

Start/Finish Date	**Site Name and Location**
8/4/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Hart Environmental Drilling	**Ground Surface Elevation:** 456.5
Driller	**Northing:** 1069549.55
Max Tinnin	**Easting:** 516317.21

Drilling Equipment	**McLaren/Hart Geologist/Office**
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	25'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-101 5'	Background (0.02-0.04)	0.0-17.0' Landfill Debris: soil consisting of clayey silt to sandy silt, and crushed rock; no trashy debris encountered; dry to moist.
10	WL-101 10'	Background (0.02-0.04)	@ 5' soil discolored with petroleum odor; OVM readings greater than 10 X background.
15	WL-101 15'	Background (0.02-0.04)	
20	WL-101 20'	Background (0.02-0.04)	17.0-25.0' Native Alluvium: grayish brown, slightly silty, plastic clay grading to dark gray, very fine-grained sand; moist to wet.
25	WL-101 25'	Background (0.02-0.04)	@ 23.0' wet Boring terminated @ 25'

Notes:

Radiological samples collected at 5 and 20 feet below ground surface.

Non-radiological samples collected at 5 and 25 feet below ground surface; contingency sampling.

Perched water not encountered during boring activities.

Groundwater encountered at 23 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-102	07.0803035.003.002	1 of 1

Start/Finish Date	**Site Name and Location**
8/4/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Hart Environmental Drilling	**Ground Surface Elevation:** 462.8
Driller	**Northing:** 1069260.46
Max Timmin	**Easting:** 515974.05

Drilling Equipment	**McLaren/Hart Geologist/Office**
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	34'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-102 5'	Background (0.02-0.04)	0.0-23.0' Landfill Debris: trashy debris consisting of wood, plastic, glass, and wire; soil consisting of olive gray silt and dark gray, silty, plastic clay to grayish brown, silty sand and crushed rock; dry to moist.
10	None Taken	Background (0.02-0.04)	
15	None Taken	Background (0.02-0.04)	
20	None Taken	Background (0.02-0.04)	
25	WL-102 25'	Background (0.02-0.04)	23.0-34.0' Native Alluvium: grayish brown, slightly silty, plastic clay grading to dark gray, fine-grained sand; moist.
30	WL-102 30'	Background (0.02-0.04)	
35	WL-102 35'	Background (0.02-0.04)	Auger refusal @ 34'

Notes:

Radiological samples collected at 5 and 15 feet below ground surface; downhole logging indicated elevated gamma readings from 2.0 - 4.0'.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105A	07.0803035.003.002	1 of 2

Start/Finish Date	**Site Name and Location**
8/8/95 / 8/9/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Hart Environmental Drilling	**Ground Surface Elevation:** 467.2
Driller	**Northing:** 1069136.26
Max Tinnin	**Easting:** 515871.62

Drilling Equipment	**McLaren/Hart Geologist/Office**
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	109'	D-3

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	None Taken	0.0-30.0' Landfill Debris: trashy debris consisting of cloth, wood, rope, and plastic; soil consisting of brown and gray silt, and crushed rock; dry to moist.
10	WL-105A 10'	None Taken	
15	None Taken	None Taken	
20	None Taken	None Taken	
25	None Taken	None Taken	
30	WL-105A 30'	None Taken	
35	None Taken	None Taken	30.0-60.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
40	None Taken	None Taken	@ 30' wet
45	WL-105A 47'	Background (0.04-0.06)	
50	None Taken	None Taken	
55	None Taken	None Taken	
60	None Taken	None Taken	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105A	07.0803035.003.002	2 of 2

Start/Finish Date	Site Name and Location
8/8/95 / 8/9/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	467.2
Driller	Northing:	1069136.26
Max Timin	Easting:	515871.62

Drilling Equipment	McLaren/Hart Geologist/Office
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	109'	D-3

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
70	None Taken	None Taken	60.0-109.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
75	None Taken	None Taken	
80	None Taken	None Taken	
85	None Taken	None Taken	
90	None Taken	None Taken	
95	None Taken	None Taken	
100	None Taken	None Taken	
105	None Taken	None Taken	
110	None Taken	Background	Auger refusal @ 109.0' (bedrock)

Notes:

Radiological samples collected at 10 and 30 feet below ground surface; downhole logging indicated elevated gamma readings from 0.5-11.0'.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 30 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105B	07.0803035.003.002	1 of 2

Start/Finish Date	**Site Name and Location**
8/10/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Farmers Field
Hart Environmental Drilling	**Ground Surface Elevation:** 466
Driller	**Northing:** 1069148.42
Max Timnin	**Easting:** 515889.50

Drilling Equipment	**McLaren/Hart Geologist/Office**
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	79'	I-4

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	None Taken	0.0-30.0' Landfill Debris: trashy debris consisting of cloth, wood, rope, and plastic; soil consisting of brown and gray silt, and crushed rock; dry to moist.
10	None Taken	None Taken	
15	None Taken	None Taken	
20	None Taken	None Taken	
25	None Taken	Background	
30	WL-105B 30'	Background (0.04-0.06)	@30' wet
35	WL-105B 35'	Background (0.04-0.06)	30.0-55.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
40	WL-105B 40'	Background (0.04-0.06)	
45	None Taken	None Taken	
50	None Taken	None Taken	
55	None Taken	None Taken	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105C	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
8/15/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	465.7
Driller	Northing:	1069155.84
Max Tinnin	Easting:	515901.03

Drilling Equipment	McLaren/Hart Geologist/Office
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	43'	S-5

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	0.7	0.0-30.0' Landfill Debris: trashy debris consisting of cloth, wood, rope, and plastic; soil consisting of brown and gray silt, and crushed rock; dry to moist.
10	None Taken	0.2	
15	None Taken	Background (0.02-0.04)	
20	None Taken	Background (0.02-0.04)	
25	None Taken	Background (0.02-0.04)	
30	None Taken	Background (0.02-0.04)	@ 30' wet
35	None Taken	Background (0.02-0.04)	30.0-43.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
40	None Taken	Background (0.02-0.04)	
45	None Taken	Background (0.02-0.04)	Boring terminated @ 43.0'

Notes:

Radiological samples not collected during boring activities; downhole logging indicated elevated gamma readings from 1.5-5.5'

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 30 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-106	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
8/11/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	465.4
Driller	**Northing:**	1069301.64
Max Tinnin	**Easting:**	516082.18

Drilling Equipment	McLaren/Hart Geologist/Office
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	20'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	Background (0.02-0.04)	0.0-20.0' Landfill Debris: trashy debris consisting of wood, plastic, glass, and wire; soil consisting of dark gray silt to clayey silt, and crushed rock; dry to moist.
10	None Taken	Background (0.02-0.04)	
15	None Taken	Background (0.02-0.04)	
20	None Taken	Background (0.02-0.04)	Boring terminated @ 20.0'

Notes:

Radiological samples not collected during boring activities; downhole logging indicated elevated gamma readings from 2.5-5.0'.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-106A	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
8/11/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	462.8
Driller	**Northing:**	1069317.25
Max Timmin	**Easting:**	516061.92

Drilling Equipment	McLaren/Hart Geologist/Office
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	35'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	0.5-1.0	0.0-24.0' Landfill Debris: trashy debris consisting of wood, plastic, glass, and wire; soil consisting of dark gray silt to clayey silt, and crushed rock; dry to moist.
10	None Taken	0.5-1.0	
15	None Taken	0.5-1.0	
20	None Taken	0.05-0.10	
25	WI-106A 25'	Background (0.06-0.10)	24.0-35.0' Native Alluvium: dark gray, silty, plastic clay grading to dark gray, very fine-grained sand; moist to wet.
30	WI-106A 30'	Background (0.06-0.10)	@ 30' wet
35	WI-106A 35'	Background (0.06-0.10)	Boring terminated @ 35.0'

Notes:

Radiological samples collected at 5 and 25 feet below ground surface; downhole logging indicated elevated gamma readings from 0.0-1.0'

Non-radiological samples collected at 30 feet below ground surface; priority pollutant and priority pollutant duplicate collected and analyzed.

Perched water not encountered during boring activities.

Groundwater encountered at 30 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-107	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/5/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Drilling Service Company	**Ground Surface Elevation:** 486.1
Driller	**Northing:** 1068909.52
Bruce Murphy	**Easting:** 516254.31

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Auger	52'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-107 5'	Background (0.02-0.04)	0.0-51.0' Landfill Debris: trashy debris consisting of wood, plastic, paper, rubber, yard waste, cloth, brick, carpeting, glass and wire; soil consisting of olive brown silt to grayish brown and dark gray clayey silt, and rock; dry to wet.
10	WL-107 10'	Background (0.02-0.04)	
15	WL-107 15'	Background (0.02-0.04)	
20	WL-107 20'	Background (0.02-0.04)	
25	WL-107 25'	Background (0.02-0.04)	
30	WL-107 30'	Background (0.02-0.04)	
35	WL-107 35'	Background (0.02-0.04)	
40	WL-107 40'	Background (0.02-0.04)	
45	WL-107 45'	Background (0.02-0.04)	
50	WL-107 50'	Background (0.02-0.04)	
55	WL-107 52'	Background (0.02-0.04)	51.0-52.0' Native Alluvium: dark gray, silty, fine-grained sand; wet. @ 51' wet. Boring terminated @ 52.0'.

Notes:

Radiological samples collected at 5 and 51 feet below ground surface.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 51 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-108	07.0803035.003.002	1 of 1

Start/Finish Date	**Site Name and Location**
9/5/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Drilling Service Company	**Ground Surface Elevation:** 472.5
Driller	**Northing:** 1069144.21
Bruce Murphy	**Easting:** 516379.68

Drilling Equipment	**McLaren/Hart Geologist/Office**
LDH-30T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Auger	22'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-108 5'	Background (0.02-0.04)	0.0-22.0' Landfill Debris: trashy debris consisting of wood, plastic, paper, rubber, metal, and cardboard; soil consisting of olive brown to dark gray silt, and rock; dry to wet.
10	None Taken	None Taken	
15	None Taken	None Taken	@ 12' wet
20	None Taken	None Taken	
25	None Taken	None Taken	Boring abandoned @ 22.0'

Notes:

Radiological sample collected at 5 feet below ground surface.
Non-radiological grab sample collected from perched water.
Perched water encountered at 12 feet below ground surface.
Groundwater not encountered during boring activities

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109B	07.0803035.003.002	1 of 2

Start/Finish Date	Site Name and Location
9/7/95 / 10/24/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	484.5
Drilling Service Company	Northing:	1068947.16
Driller	Easting:	516523.17
Max Tinnin	McLaren/Hart Geologist/Office	
Bruce Murphy	Tim Biggs / St. Louis	

Drilling Equipment
CME-55 Drill Rig, Hollow Stem Augers
LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID & 1/4" Hole 24" OD Solid Auger	Continuous Sampler Grab from Auger	59'	D-14

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	None Taken	0.0-49.0' Landfill Debris: trashy debris consisting of wood, plastic, brick, paper, wire, rubber, metal, yard waste, and carpeting; soil consisting of olive brown to dark gray silt, gray to black silty clay, and crushed rock; dry to moist; warm.
10	None Taken	None Taken	
15	None Taken	None Taken	
20	None Taken	None Taken	
25	None Taken	None Taken	
30	None Taken	None Taken	
35	None Taken	None Taken	
40	None Taken	None Taken	
45	None Taken	None Taken	@ 45.0' sample had temperature of 116° F

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109B	07.0803035.003.002	2 of 2

Start/Finish Date	Site Name and Location
10/24/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	484.5
Drilling Service Company	Northing:	1068947.16
Driller	Easting:	516523.17
Max Tinnin	McLaren/Hart Geologist/Office	
Bruce Murphy	Tim Biggs / St. Louis	

Drilling Equipment

CME-55 Drill Rig, Hollow Stem Augers

LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID 8 1/4" Hole 24" OD Solid Auger	Continuous Sampler Grab from Auger	59'	D-14

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
	None	None	
50	Taken	Taken	49.0-59.0' Native Alluvium: dark gray, clayey and silty, very fine-grained sand; moist; warm.
	None	None	
55	Taken	Taken	
	WL-109B	None	
60	59'	Taken	Auger refusal @ 59.0' (bedrock)

Notes:

Radiological samples not collected during boring activities.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109C	07.0803035.003.002	1 of 2

Start/Finish Date	Site Name and Location
9/12/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	483.9
Driller	Northing:	1068961.12
Bruce Murphy	Easting:	516528.43

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-30T Drilling Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD, Solid Auger	Grab	57'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	Background (0.02-0.04)	0.0-48.0' Landfill Debris: trashy debris consisting of wood, plastic, brick, paper, wire, metal, yard waste, and carpeting; soil consisting of olive brown to dark gray silt, gray to black silty clay, and crushed rock; dry to moist; warm.
10	None Taken	Background (0.02-0.04)	
15	None Taken	Background (0.02-0.04)	
20	None Taken	Background (0.02-0.04)	
25	None Taken	Background (0.02-0.04)	
30	None Taken	Background (0.02-0.04)	
35	None Taken	Background (0.02-0.04)	
40	None Taken	Background (0.02-0.04)	
45	None Taken	Background (0.02-0.04)	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109D	07.0803035.003.002	1 of 2

Start/Finish Date	Site Name and Location
10/23/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	485.6
Drilling Service Company	Northing:	1068947.38
	Easting:	516504.97

Driller	McLaren/Hart Geologist/Office
Max Tinnin	Tim Biggs / St. Louis
Bruce Murphy	

Drilling Equipment
CME-55 Drill Rig, Hollow Stem Augers
LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID 8 1/4" Hole	Continuous Sampler	59'	D-14
24" OD Solid Auger	Grab from Auger		

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-109D 5'	Background (0.02-0.04)	0.0-56.0' Landfill Debris: trashy debris consisting of wood, plastic, brick, shingles, paper, wire, metal, yard waste, and carpeting; soil consisting of olive brown to dark gray silt, gray to black silty clay, green and red weathered shale, and crushed rock; dry to moist; warm.
10	WL-109D 10'	Background (0.02-0.04)	
15	WL-109D 15'	Background (0.02-0.04)	
20	WL-109D 20'	Background (0.02-0.04)	
25	WL-109D 25'	Background (0.02-0.04)	
30	WL-109D 30'	Background (0.02-0.04)	
35	WL-109D 35'	None Taken	
40	WL-109D 40'	Background (0.02-0.04)	
45	WL-109D 45'	Background (0.02-0.04)	
50	WL-109D 50'	Background (0.02-0.04)	
55	WL-109D 55'	Background (0.02-0.04)	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109D	07.0803035.003.002	2 of 2

Start/Finish Date	Site Name and Location
10/23/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	485.6
Drilling Service Company	Northing:	1068947.38
Driller	Easting:	516504.97
Max Tinnin	**McLaren/Hart Geologist/Office**	
Bruce Murphy	Tim Biggs / St. Louis	

Drilling Equipment

CME-55 Drill Rig, Hollow Stem Augers

LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID 8 1/4" Hole	Continuous Sampler	59'	D-14
24" OD Solid Auger	Grab from Auger		

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
60	None Taken	Background (0.02-0.04)	56.0-62.0' Native Alluvium: dark gray clayey silt grading to fine-grained sand; moist.
65	None Taken	Background (0.02-0.04)	Auger refusal @ 62.0' (bedrock)

Notes:

Radiological samples not collected during boring activities.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-110	07.0803035.003.002	1 of 2

Start/Finish Date	Site Name and Location
9/6/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	484.41 (Planned Boring
Driller	Northing:	1068889.01 location, not
Bruce Murphy	Easting:	516645.03 surveyed)

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drilling Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD, Solid Auger	Grab from Augers	56'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-110 5'	Background (0.02-0.04)	0.0-50.0' Landfill Debris: trashy debris consisting of wood, plastic, wire, insulation, paper, and metal; soil consisting of olive brown silt, dark gray to grayish brown silty clay, and crushed rock; dry to moist; warm to very warm.
10	WL-110 10'	Background (0.02-0.04)	
15	WL-110 15'	Background (0.02-0.04)	
20	WL-110 20'	Background (0.02-0.04)	
25	WL-110 25'	Background (0.02-0.04)	
30	WL-110 30'	Background (0.02-0.04)	
35	WL-110 35'	Background (0.02-0.04)	
40	WL-110 40'	Background (0.02-0.04)	
45	WL-110 45'	Background (0.02-0.04)	
50	WL-110 50'	Background (0.02-0.04)	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-110	07.0803035.003.002	2 of 2

Start/Finish Date	**Site Name and Location**
9/6/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Drilling Service Company	**Ground Surface Elevation:** 484.41 (Planned Boring
Driller	**Northing:** 1068889.01 location, not
Bruce Murphy	**Easting:** 516645.03 surveyed)

Drilling Equipment	**McLaren/Hart Geologist/Office**
LDH-80T Drilling Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD, Solid Auger	Grab from Augers	56'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
55	WL-110 55'	Background (0.02-0.04)	50.0-56.0' Native Alluvium: dark gray, clayey silt; moist; very warm.
60	WL-110 56'	Background (0.02-0.04)	@ 56.0' sample had a temperature of 140° F Boring terminated at 56.0'

Notes:

Radiological samples collected from 5 and 50 feet below ground surface.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-111	07.0803035.003.002	1 of 1

Start/Finish Date	**Site Name and Location**
9/11/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Drilling Service Company	**Ground Surface Elevation:** 474.5
Driller	**Northing:** 1069187.35
Bruce Murphy	**Easting:** 516583.61

Drilling Equipment	**McLaren/Hart Geologist/Office**
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	52'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-111 5'	Background (0.02-0.04)	0.0-50.0' Landfill Debris: trashy debris consisting of wood, plastic, cloth, brick, rubber, paper, wire, glass, and metal; soil consisting of olive brown to gray silt, dark gray to grayish brown silty clay, and crushed rock; dry to wet.
10	WL-111 10'	Background (0.02-0.04)	
15	WL-111 15'	Background (0.02-0.04)	
20	WL-111 20'	Background (0.02-0.04)	
25	WL-111 25'	Background (0.02-0.04)	
30	WL-111 30'	Background (0.02-0.04)	
35	WL-111 35'	Background (0.02-0.04)	
40	WL-111 40'	Background (0.02-0.04)	
45	WL-111 45'	Background (0.02-0.04)	@ 45' wet
50	WL-111 50'	Background (0.02-0.04)	
55	WL-111 51'	Background (0.02-0.04)	50.0-52.0' Native Alluvium: dark gray, silty, very fine-grained sand; wet. Boring terminated @ 52.0'.

Notes:

Radiological samples collected at 5 and 51 feet below ground surface.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 45 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-112	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/11/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	467.6
Driller	Northing:	1069379.45
Bruce Murphy	Easting:	516628.22

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	42'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-112 5'	Background (0.02-0.04)	0.0-38.0' Landfill Debris: trashy debris consisting of yard waste, wood, plastic, cloth, paper, wire, and metal; soil consisting of grayish brown to dark gray silt, dark gray to grayish brown clayey silt, and very fine-grained sand; dry to wet.
10	None Taken	None Taken	
15	WL-112 15'	Background (0.02-0.04)	
20	WL-112 20'	Background (0.02-0.04)	
25	WL-112 25'	Background (0.02-0.04)	
30	WL-112 30'	Background (0.02-0.04)	
35	WL-112 35'	Background (0.02-0.04)	@ 34' wet
40	None Taken	None Taken	38.0-42.0' Native Alluvium: dark gray silty clay grading to very fine-grained sand; moist to wet.
45	None Taken	None Taken	Boring terminated @ 42.0'

Notes:

Radiological samples collected at 5 and 42 feet below ground surface.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 34 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-113	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/25/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	467
Driller	**Northing:**	1069483.19
Bruce Murphy	**Easting:**	516469.95

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Auger	45'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-113 5'	Background (0.01-0.04)	0.0-42.5' Landfill Debris: trashy debris consisting of yard waste, wood, plastic, cloth, paper, wire, and metal; soil consisting of dark gray to grayish brown silty clay and very fine to medium-grained sand; dry to wet.
10	WL-113 10'	Background (0.01-0.04)	
15	WL-113 15'	Background (0.01-0.04)	
20	WL-113 20'	Background (0.01-0.04)	
25	None Taken	Background (0.01-0.04)	
30	None Taken	Background (0.01-0.04)	
35	WL-113 35'	Background (0.01-0.04)	
40	None Taken	Background (0.01-0.04)	
			@ 41' wet
45	None Taken	Background (0.01-0.04)	42.5-45.0' Native Alluvium: dark gray silty clay grading to very fine-grained sand; wet. Boring terminated @ 45.0'.

Notes:

Radiological samples collected at 5 and 10 feet below ground surface; duplicate collected and analyzed for 5' sample; downhole logging indicated elevated gamma readings from 3.5 -4.0'.

Non-radiological samples collected at 45 feet below ground surface; priority pollutant sample collected and analyzed.

Perched water not encountered during boring activities.

Groundwater encountered at 41 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-114	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/25/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	468.3
Driller	**Northing:**	1069391.53
Bruce Murphy	**Easting:**	516338.57

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	45'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-114 5'	Background (0.01-0.05)	0.0–40.0' Landfill Debris: trashy debris consisting of yard waste, wood, plastic, cloth, paper, insulation, wire, and metal; soil consisting of dark gray to grayish brown clayey silt and very fine to medium-grained sand; dry to moist.
10	None Taken	Background (0.01-0.05)	
15	WL-114 15'	Background (0.01-0.05)	
20	WL-114 20'	Background (0.01-0.05)	
25	WL-114 25'	Background (0.01-0.05)	
30	WL-114 30'	Background (0.01-0.05)	
35	WL-114 35'	Background (0.01-0.05)	
40	WL-114 40'	Background (0.01-0.05)	
45	None Taken	Background (0.01-0.05)	40.0–45.0' Native Alluvium: dark gray, silty, fine to medium-grained sand; wet. Boring terminated @ 45.0'.

Notes:

Radiological samples collected at 5 and 15 feet below ground surface; downhole logging indicated elevated gamma readings from 4.0-5.0'.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 41 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-115	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/26/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	468.9
Driller	**Northing:**	1069298.98
Bruce Murphy	**Easting:**	516395.13

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	41'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-115 5'	Background (0.01-0.04)	0.0-34.0' Landfill Debris: trashy debris consisting of yard waste, rubber, wood, plastic, cloth, paper, insulation, wire, and metal; soil consisting of dark gray to grayish brown clayey silt and silty sand; dry to moist.
10	WL-115 10'	Background (0.01-0.04)	
15	WL-115 15'	Background (0.01-0.04)	
20	None Taken	Background (0.01-0.04)	
25	WL-115 25'	Background (0.01-0.04)	
30	None Taken	Background (0.01-0.04)	
35	WL-115 35'	Background (0.01-0.04)	34.0-41.0' Native Alluvium: dark gray, silty, fine to medium-grained sand; moist to wet.
40	WL-115 40'	Background (0.01-0.04)	@ 40' wet
45	None Taken	None Taken	Boring terminated @ 41.0'

Notes:

Radiological samples collected at 5 and 40 feet below ground surface.

Non-radiological samples collected at 5 and 38 feet below ground surface; contingency sampling.

Perched water not encountered during boring activities.

Groundwater encountered at 40 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-116	07.0803035.003.002	1 of 1

Start/Finish Date	**Site Name and Location**
9/26/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Drilling Service Company	**Ground Surface Elevation:** 474.3
Driller	**Northing:** 1069083.49
Bruce Murphy	**Easting:** 516160.60

Drilling Equipment	**McLaren/Hart Geologist/Office**
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	20'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-116 5'	Background (0.01-0.04)	0.0-20.0' Landfill Debris: trashy debris consisting of yard waste, wood, plastic, cloth, paper, and metal; soil consisting of dark gray silty clay; dry to wet.
10	WL-116 10'	Background (0.01-0.04)	@ 8' wet
15	None Taken	Background (0.01-0.04)	
20	None Taken	None Taken	Boring abandoned @ 20.0'

Notes:

Radiological samples collected at 5 and 10 feet below ground surface; duplicate collected and analyzed for 5' sample.

Non-radiological samples not collected during boring activities.

Perched water encountered at 8 feet below ground sruface.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-117	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/27/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	467.6
Driller	Northing:	1069237.40
Bruce Murphy	Easting:	516221.33

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	41'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-117 5'	Background (0.01-0.04)	0.0-37.0' Landfill Debris: trashy debris consisting of yard waste, wood, wire, insulation, plastic, cloth, paper, and metal; soil consisting of dark gray silty clay; dry to wet.
10	WL-117 10'	Background (0.01-0.04)	
15	WL-117 15'	Background (0.01-0.04)	
20	None Taken	Background (0.01-0.04)	
25	WL-117 25'	Background (0.01-0.04)	
30	WL-117 30'	Background (0.01-0.04)	
35	WL-117 35'	Background (0.01-0.04)	
40	WL-117 40'	Background (0.01-0.04)	37.0-41.0' Native Alluvium: dark gray, silty, fine to medium-grained sand; moist to wet.
45	None Taken	None Taken	@ 40' wet Boring terminated @ 41.0'

Notes:

Radiological samples collected at 10 and 25 feet below ground surface; downhole logging indicated elevated gamma readings from 6.0-7.0'.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 40 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-118	07.0803035.003.002	1 of 1

Start/Finish Date	**Site Name and Location**
9/28/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Drilling Service Company	**Ground Surface Elevation:** 465.8
Driller	**Northing:** 1069411.09
Bruce Murphy	**Easting:** 516304.95

Drilling Equipment	**McLaren/Hart Geologist/Office**
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	15'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-118 5'	Background (0.01-0.04)	0.0-15.0' Landfill Debris: trashy debris consisting of plastic, cloth, paper, glass, and metal; soil consisting of light brown to dark gray, silty, plastic clay; dry to moist.
10	WL-118 10'	Background (0.01-0.04)	
15	WL-118 15'	Background (0.01-0.04)	Boring terminated @ 15.0'

Notes:

Radiological samples collected at 5 and 10 feet below ground surface.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-119	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/29/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	477.4
Driller	**Northing:**	1069031.14
Bruce Murphy	**Easting:**	516289.26

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	50'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-119 5'	Background (0.01-0.04)	0.0-44.0' Landfill Debris: trashy debris consisting of yard waste, insulation, wire, wood, plastic, shingles, cloth, carpet, paper, glass, and metal; soil consisting of light brown to dark gray, silty, plastic clay to sandy silt; dry to moist.
10	None Taken	Background (0.01-0.04)	
15	WL-119 15'	Background (0.01-0.04)	
20	None Taken	Background (0.01-0.04)	
25	WL-119 25'	Background (0.01-0.04)	
30	None Taken	Background (0.01-0.04)	
35	None Taken	Background (0.01-0.04)	
40	None Taken	Background (0.01-0.04)	
45	WL-119 45'	Background (0.01-0.04)	44.0-50.0' Native Alluvium: dark gray, silty, fine to medium-grained sand; moist.
50	WL-119 50'	Background (0.01-0.04)	Boring terminated @ 50.0'

Notes:

Radiological samples collected at 5 and 50 feet below ground surface; duplicate collected and analyzed for 50' sample.

Non-radiological samples collected at 50 feet below ground surface; priority pollutant and priority pollutant duplicate sample collected and analyzed.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-120	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
9/29/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	474.7
Driller	**Northing:**	1069053.64
Bruce Murphy	**Easting:**	516846.57

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-80T Drill Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD Solid Auger	Grab from Augers	52'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-120 5'	Background (0.01-0.04)	0.0-52.0' Landfill Debris: trashy debris consisting of yard waste, insulation, rubber, wire, wood, plastic, shingles, cloth, carpet, paper, glass, and metal; soil consisting of light brown to dark gray, silty, plastic clay to silty sand; dry to wet.
10	None Taken	Background (0.01-0.04)	
15	None Taken	Background (0.01-0.04)	
20	WL-120 20'	Background (0.01-0.04)	
25	WL-120 25'	Background (0.01-0.04)	
30	None Taken	Background (0.01-0.04)	
35	None Taken	Background (0.01-0.04)	
40	None Taken	Background (0.01-0.04)	
45	None Taken	Background (0.01-0.04)	
50	WL-120 50'	Background (0.01-0.04)	
55	None Taken	Background (0.01-0.04)	Boring terminated @ 52.0'

Notes:

Radiological samples collected at 5 and 50 feet below ground surface; duplicate collected and analyzed for 50' sample.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Goundwater not encountered during boring activities.

Appendix B-6

Boring Logs for Monitoring Wells Located in or Near Area 1

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105A	07.0803035.003.002	1 of 2

Start/Finish Date	**Site Name and Location**
8/8/95 / 8/9/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Area 1
Hart Environmental Drilling	**Ground Surface Elevation:** 467.2
Driller	**Northing:** 1069136.26
Max Tinnin	**Easting:** 515871.62

Drilling Equipment	**McLaren/Hart Geologist/Office**
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	109'	D-3

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	None Taken	0.0-30.0' Landfill Debris: trashy debris consisting of cloth, wood, rope, and plastic; soil consisting of brown and gray silt, and crushed rock; dry to moist.
10	WL-105A 10'	None Taken	
15	None Taken	None Taken	
20	None Taken	None Taken	
25	None Taken	None Taken	
30	WL-105A 30'	None Taken	
35	None Taken	None Taken	30.0-60.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
40	None Taken	None Taken	@ 30' wet
45	WL-105A 47'	Background (0.04-0.06)	
50	None Taken	None Taken	
55	None Taken	None Taken	
60	None Taken	None Taken	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105A	07.0803035.003.002	2 of 2

Start/Finish Date	Site Name and Location
8/8/95 / 8/9/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	467.2
Driller	Northing:	1069136.26
Max Timin	Easting:	515871.62

Drilling Equipment	McLaren/Hart Geologist/Office
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	109'	D-3

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
70	None Taken	None Taken	60.0-109.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
75	None Taken	None Taken	
80	None Taken	None Taken	
85	None Taken	None Taken	
90	None Taken	None Taken	
95	None Taken	None Taken	
100	None Taken	None Taken	
105	None Taken	None Taken	
110	None Taken	Background	Auger refusal @ 109.0' (bedrock)

Notes:

Radiological samples collected at 10 and 30 feet below ground surface; downhole logging indicated elevated gamma readings from 0.5-11.0'.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 30 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105B	07.0803035.003.002	1 of 2

Start/Finish Date	**Site Name and Location**
8/10/95	West Lake Landfill; Bridgeton, Missouri
Drilling Contractor	**Boring Location:** Farmers Field
Hart Environmental Drilling	**Ground Surface Elevation:** 466
Driller	**Northing:** 1069148.42
Max Timnin	**Easting:** 515889.50

Drilling Equipment	**McLaren/Hart Geologist/Office**
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	79'	I-4

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	None Taken	0.0-30.0' Landfill Debris: trashy debris consisting of cloth, wood, rope, and plastic; soil consisting of brown and gray silt, and crushed rock; dry to moist.
10	None Taken	None Taken	
15	None Taken	None Taken	
20	None Taken	None Taken	
25	None Taken	Background	
30	WL-105B 30'	Background (0.04-0.06)	@30' wet
35	WL-105B 35'	Background (0.04-0.06)	30.0-55.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
40	WL-105B 40'	Background (0.04-0.06)	
45	None Taken	None Taken	
50	None Taken	None Taken	
55	None Taken	None Taken	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-105C	07.0803035.003.002	1 of 1

Start/Finish Date	Site Name and Location
8/15/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	465.7
Driller	Northing:	1069155.84
Max Tinnin	Easting:	515901.03

Drilling Equipment	McLaren/Hart Geologist/Office
CME-55 Drill Rig, Hollow Stem Augers	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID; 8 1/4" Hole	5' Continuous Sampler	43'	S-5

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	0.7	0.0-30.0' Landfill Debris: trashy debris consisting of cloth, wood, rope, and plastic; soil consisting of brown and gray silt, and crushed rock; dry to moist.
10	None Taken	0.2	
15	None Taken	Background (0.02-0.04)	
20	None Taken	Background (0.02-0.04)	
25	None Taken	Background (0.02-0.04)	
30	None Taken	Background (0.02-0.04)	@ 30' wet
35	None Taken	Background (0.02-0.04)	30.0-43.0' Native Alluvium: dark gray clayey silt grading to fine to coarse-grained sand and gravel; wet.
40	None Taken	Background (0.02-0.04)	
45	None Taken	Background (0.02-0.04)	Boring terminated @ 43.0'

Notes:

Radiological samples not collected during boring activities; downhole logging indicated elevated gamma readings from 1.5-5.5'

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater encountered at 30 feet below ground surface.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109B	07.0803035.003.002	1 of 2

Start/Finish Date	Site Name and Location
9/7/95 / 10/24/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	484.5
Drilling Service Company	Northing:	1068947.16
Driller	Easting:	516523.17
Max Tinnin	McLaren/Hart Geologist/Office	
Bruce Murphy	Tim Biggs / St. Louis	

Drilling Equipment
CME-55 Drill Rig, Hollow Stem Augers
LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID & 1/4" Hole 24" OD Solid Auger	Continuous Sampler Grab from Auger	59'	D-14

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	None Taken	0.0-49.0' Landfill Debris: trashy debris consisting of wood, plastic, brick, paper, wire, rubber, metal, yard waste, and carpeting; soil consisting of olive brown to dark gray silt, gray to black silty clay, and crushed rock; dry to moist; warm.
10	None Taken	None Taken	
15	None Taken	None Taken	
20	None Taken	None Taken	
25	None Taken	None Taken	
30	None Taken	None Taken	
35	None Taken	None Taken	
40	None Taken	None Taken	
45	None Taken	None Taken	@ 45.0' sample had temperature of 116° F

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109B	07.0803035.003.002	2 of 2

Start/Finish Date	Site Name and Location
10/24/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	484.5
Drilling Service Company	Northing:	1068947.16
Driller	Easting:	516523.17
Max Tinnin	McLaren/Hart Geologist/Office	
Bruce Murphy	Tim Biggs / St. Louis	

Drilling Equipment

CME-55 Drill Rig, Hollow Stem Augers

LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID 8 1/4" Hole 24" OD Solid Auger	Continuous Sampler Grab from Auger	59'	D-14

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
	None	None	
50	Taken	Taken	49.0-59.0' Native Alluvium: dark gray, clayey and silty, very fine-grained sand; moist; warm.
	None	None	
55	Taken	Taken	
	WL-109B	None	
60	59'	Taken	Auger refusal @ 59.0' (bedrock)

Notes:

Radiological samples not collected during boring activities.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109C	07.0803035.003.002	1 of 2

Start/Finish Date	Site Name and Location
9/12/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Drilling Service Company	Ground Surface Elevation:	483.9
Driller	Northing:	1068961.12
Bruce Murphy	Easting:	516528.43

Drilling Equipment	McLaren/Hart Geologist/Office
LDH-30T Drilling Rig, Large Diameter Auger	Tim Biggs / St. Louis

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
24" OD, Solid Auger	Grab	57'	None Installed

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	None Taken	Background (0.02-0.04)	0.0-48.0' Landfill Debris: trashy debris consisting of wood, plastic, brick, paper, wire, metal, yard waste, and carpeting; soil consisting of olive brown to dark gray silt, gray to black silty clay, and crushed rock; dry to moist; warm.
10	None Taken	Background (0.02-0.04)	
15	None Taken	Background (0.02-0.04)	
20	None Taken	Background (0.02-0.04)	
25	None Taken	Background (0.02-0.04)	
30	None Taken	Background (0.02-0.04)	
35	None Taken	Background (0.02-0.04)	
40	None Taken	Background (0.02-0.04)	
45	None Taken	Background (0.02-0.04)	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109D	07.0803035.003.002	1 of 2

Start/Finish Date	Site Name and Location
10/23/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	485.6
Drilling Service Company	Northing:	1068947.38
	Easting:	516504.97

Driller	McLaren/Hart Geologist/Office
Max Tinnin	Tim Biggs / St. Louis
Bruce Murphy	

Drilling Equipment
CME-55 Drill Rig, Hollow Stem Augers
LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID 8 1/4" Hole	Continuous Sampler	59'	D-14
24" OD Solid Auger	Grab from Auger		

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
5	WL-109D 5'	Background (0.02-0.04)	0.0-56.0' Landfill Debris: trashy debris consisting of wood, plastic, brick, shingles, paper, wire, metal, yard waste, and carpeting; soil consisting of olive brown to dark gray silt, gray to black silty clay, green and red weathered shale, and crushed rock; dry to moist; warm.
10	WL-109D 10'	Background (0.02-0.04)	
15	WL-109D 15'	Background (0.02-0.04)	
20	WL-109D 20'	Background (0.02-0.04)	
25	WL-109D 25'	Background (0.02-0.04)	
30	WL-109D 30'	Background (0.02-0.04)	
35	WL-109D 35'	None Taken	
40	WL-109D 40'	Background (0.02-0.04)	
45	WL-109D 45'	Background (0.02-0.04)	
50	WL-109D 50'	Background (0.02-0.04)	
55	WL-109D 55'	Background (0.02-0.04)	

Soil Boring Log

McLaren Hart

Boring No.	Project No./Name	Page:
WL-109D	07.0803035.003.002	2 of 2

Start/Finish Date	Site Name and Location
10/23/95	West Lake Landfill; Bridgeton, Missouri

Drilling Contractor	Boring Location:	Area 1
Hart Environmental Drilling	Ground Surface Elevation:	485.6
Drilling Service Company	Northing:	1068947.38
Driller	Easting:	516504.97
Max Tinnin	**McLaren/Hart Geologist/Office**	
Bruce Murphy	Tim Biggs / St. Louis	

Drilling Equipment

CME-55 Drill Rig, Hollow Stem Augers

LDH-80T Drill Rig, Large Diameter Auger

Bit Size/Type	Sample Method	T.D. Borehole	Well Installed?
4 1/4" ID 8 1/4" Hole	Continuous Sampler	59'	D-14
24" OD Solid Auger	Grab from Auger		

Remarks:

Depth (ft)	Sample ID #	Geiger Reading (mR/hr)	Description
60	None Taken	Background (0.02-0.04)	56.0-62.0' Native Alluvium: dark gray clayey silt grading to fine-grained sand; moist.
65	None Taken	Background (0.02-0.04)	Auger refusal @ 62.0' (bedrock)

Notes:

Radiological samples not collected during boring activities.

Non-radiological samples not collected during boring activities.

Perched water not encountered during boring activities.

Groundwater not encountered during boring activities.

DRILLING LOG

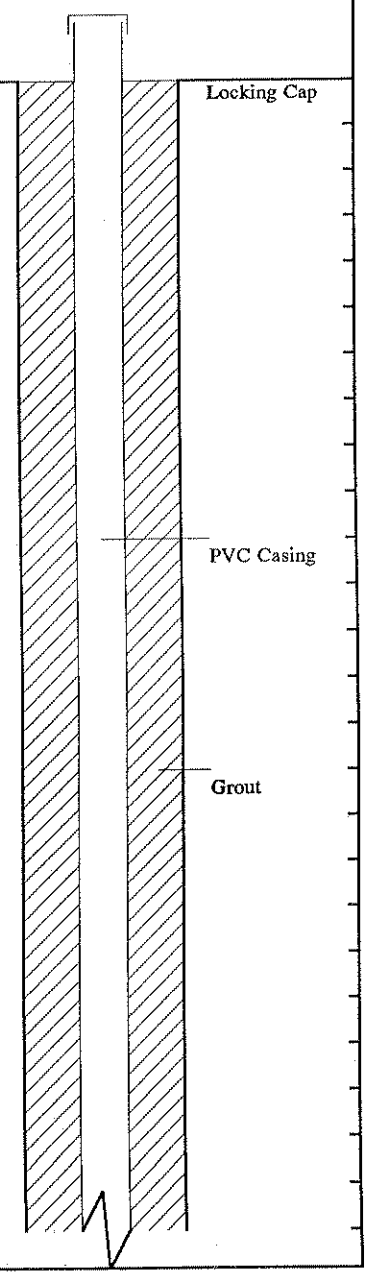
McLaren Hart

SB/MW #: D-85
Log #:
Page 1 of 2
Geoscientist:

PROJECT: Westlake
PROJECT #: 11.0800556
LOCATION: Bridgeton, Missouri
TOC ELEVATION: 456.10
SAMPLING DATE(S): 8/0/84
START:
FINISH:
SAMPLING METHOD:
MONITORING DEVICE:
SUBCONTRACTOR/EQUIPMENT: Wabash/
DRILLING METHOD:
NOTES:

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log
0				SAND, SILT & GRAVEL (FILL); light brown, damp to dry.		
4				Silty SAND (FILL); Gray to dark gray, very loose, damp.		
6		SS-1				
10		SS-2				
14				Clayey SILT & SAND (FILL); Gray, low plasticity, stiff, moist.		
16		SS-3				
20		SS-4				
22				Silty SAND; Gray-Brown, moist to saturated.	SM	
26		ST-5		SAND w/tr. Silt; Gray, fine to course, sub-rounded, medium dense to very dense, saturated.		
30		SS-6				
36		SS-7				
40		SS-8		SAND; gray to gray-brown, coarse, some fine and medium, few fine gravelly seams, dense, saturated.	SM GM	
50				See Following Page...		

Well Construction Details



SIGNATURE OF FIELD SUPERVISOR

Assistant Geoscientist
TITLE

SIGNATURE OF REVIEWER

Project Manager
TITLE

DRILLING LOG

McLaren Hart

SB/MW #: D-85
Log #:
Page 2 of 2
Geoscientist:

PROJECT: Westlake PROJECT #: 11.0800556

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log	Well Construction Details
50.0				SAND; trace Silt and course Sand; greenish gray, fine to medium, very dens e, saturated, subrounded to subangular.			
52							
54							
56							57.5
58							Bentonite Pellet Seal
60							59.7
62							
64							64.1
66							
68							
70							
72							
74							Gravel Pack
76							
78							
80							0.010" Machine Slotted Screen
82				GRAVEL, COBBLES, & SAND; Saturated	GP		84.1
84				LIMESTONE; Cream to light brown Total Depth = 84.1'			

SIGNATURE OF FIELD SUPERVISOR

Assistant Geoscientist
TITLE

SIGNATURE OF REVIEWER

Project Manager
TITLE

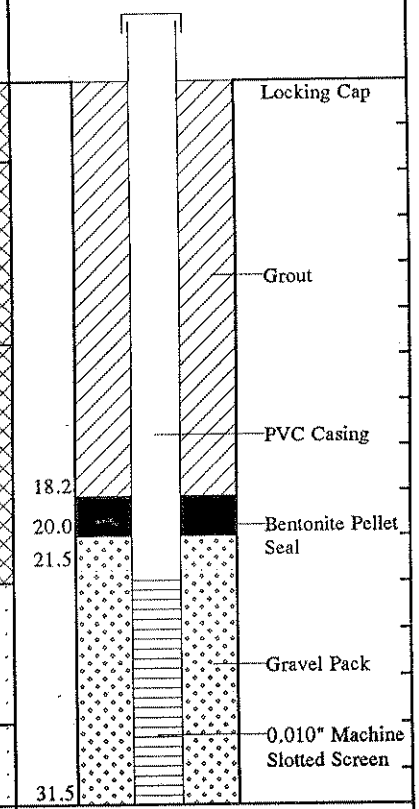
DRILLING LOG

McLaren Hart

SB/MW #: S-84
Log #:
Page 1 of 1
Geoscientist:

PROJECT: Westlake
PROJECT #: 11.0800556
LOCATION: Bridgeton, Missouri
TOC ELEVATION: 456.90
SAMPLING DATE(S): 8/24/84 START: FINISH:
SAMPLING METHOD: MONITORING DEVICE:
SUBCONTRACTOR/EQUIPMENT: Wabash/
DRILLING METHOD: NOTES:

Depth Below Surface (ft.)	Sampler Interval/ Recovery	Sample ID #	PID reading (ppm)	Soil Description Color, Texture, Moisture, Etc.	Unified Classification	Graphic Log
0				SAND, SILT, & GRAVEL (FILL); Light brown, damp to dry		
2						
4				Silty SAND (FILL); Greenish gray to dark gray, very loose, damp		
6		SS-1				
8						
10						
12				Silty SAND w/zones of Clayey SILT (FILL); Greenish Gray, moist to saturated		
14						
16		ST-2				
18						
20						
22				SAND w/Tr. SILT; gray-brown, fine to medium grain, medium dense.		
24						
26		SS-3				
28				SAND; gray, medium to coarse grained, medium density, saturated		
30		SS-4		Total Depth from Ground Surface is 31.5'		



SIGNATURE OF FIELD SUPERVISOR

Assistant Geoscientist
TITLE

SIGNATURE OF REVIEWER

Project Manager
TITLE

RECORD OF DRILLHOLE PZ-111-KS

Sheet 1 of 19

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD (80 60 40 20)	FRACTURES PER FOOT (2 4 6 8 10)	DISCONTINUITY DATA: DIP wrt CORE AXIS (0 30 60 90)	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: GRAPHIC LOG	WEATHERING INDEX (SW FR, MW, HW, CW)	STRENGTH INDEX (R6 R5 R4 R3 R2 R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 600, R4 1500, R5, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
80	0.0-79.5ft. No sampling conducted See Foth & Van Dyke log F-1-D dated 9/1/90 79.5-80.0 ft. No samples collected														0.0-84.0 ft. Borehole advanced with 14 3/4 in. tricone bit using mud rotary, then 10 in. steel casing set in borehole to seal off saturated alluvial deposits. Extremely weathered bedrock encountered @ ~79.0 ft. and bedrock encountered @ 84.0 ft.
82															
84	374.60		374.60												
	84.6-86.8 ft. 84.60 Slightly weathered, medium bedded, light olive gray (5Y 5/2), very fine grained, medium strong, DOLOMITE, (ST. LOUIS FORMATION) 85.1-85.3 ft. Limestone 85.7 ft. Calcite crystals		84.60						Broken Zone						3/15/95 @ 7:45 Began coring
86	372.40								J,U,SM						
	86.8-91.5 ft. 86.80 Fresh, medium bedded, light olive gray (5Y 5/2), very fine grained, strong, DOLOMITIC LIMESTONE, (ST. LOUIS FORMATION)			1	96%				J,PL,SM						
88									J,PL,SM J,I,R J,PL,SM,CL						
			369.80						J,I,R						
90	90.4-90.5 ft. Argillaceous partings		89.40						J,I,SM (2)						End core Run 1 @ 8:20
	367.70														
	91.5-96.8 ft. 91.50 Fresh, medium bedded, light olive gray (5Y 5/2), very fine grained, medium strong, DOLOMITE, (ST. LOUIS FORMATION) 92.1-93.6 ft. Slightly porous/vuggy, some calcite crystals			2	100 %										
92															
94															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068820.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (SW FR, MW, HW, CW)	STRENGTH INDEX (R6, R5, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (RT 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
96															
			362.40												
	96.8-99.5 ft. 96.80 Fresh, medium bedded, light olive gray (5Y 5/2), very fine grained, strong DOLOMITIC LIMESTONE, (ST. LOUIS FORMATION)			2	100 %				J,U,SM						
98									J,PL,SM						
	98.7-98.9 ft. Argillaceous partings								J,PL,SM,CL (2)						
			359.70												
	99.5-103.7 ft. 99.50 Fresh, medium bedded, light olive gray (5Y 5/2), very fine grained, medium strong, DOLOMITE, (ST. LOUIS FORMATION) Some calcite filled veins, pyrite crystals		359.80 99.40												End core Run 2 @ 9:20
100															
102															
			355.50												
	103.7-106.9 ft. 103.70 Fresh, medium bedded, light olive gray (5Y 5/2), medium grained, medium strong, DOLOMITIC LIMESTONE, (ST. LOUIS FORMATION) Some stylolites, argillaceous partings			3	98%				J,I,SM,CL						
104															
106									J,I,R						
	106.9-110.0 ft. Fresh, medium bedded, light olive gray (5Y 6/1), micro-crystalline, strong, LIMESTONE, (ST. LOUIS FORMATION)														
108	108.1-108.5 ft. Slightly weathered, some stylolites, argillaceous partings								J,U,SM J,I,SM,CL (2)						
			349.80 109.40												
110									J,I,SM (2)						
	110.0-112.1 ft. Fresh, medium bedded, light olive gray (5Y 6/1), medium grained, medium strong, DOLOMITIC LIMESTONE, (ST. LOUIS FORMATION)			4	100 %										End Core Run 3 @ 10:25
112															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1066620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

LENGTH SCALE (FEET)	ROCK TYPE DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO	CORE RECOVERY	RQD (80 60 40 20)	FRACTURES PER FOOT (2 4 6 8 10)	DISCONTINUITY DATA: DIP wrt CORE AXIS (0 30 60 90)	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (SW FR, MW, HW, CW)	STRENGTH INDEX (R5 R6, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (RT 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
112			347.10												
	112.1-115.8 ft. Fresh, medium bedded, light olive gray (5Y 6/1), very fine grained, weak, ARGILLACEOUS DOLOMITE, (ST. LOUIS FORMATION)		112.10						J,I,SM						
114															
			343.40	4	100 %										
116	115.8-120.6 ft. Fresh, medium bedded, olive gray (5Y 4/1), fine grained, medium strong, DOLOMITIC LIMESTONE, (ST. LOUIS FORMATION)		115.80												
118															
	119.0-119.4 ft. Some calcite filled vugs (<2 mm) 119.4-120.3 ft. Argillaceous, weak		339.80												
			119.40												
120	120.6-127.0 ft. Fresh, thinly bedded, light olive gray (5Y 6/1), very fine grained, medium strong, LIMESTONE, (ST. LOUIS FORMATION) Some calcite crystals								J,I,SM J,I,SM						
									J,I,R						
122									J,PL,SM,CL						
	123.0-127.0 ft. Thinly laminated argillaceous partings								J,U,SM,CL						
				5	96%				J,PL,SM						
124															
									J,PL,SM						
									J,PL,SM J,I,R						
126															
	127.0-136.9 ft. Fresh, medium bedded, light olive gray (5Y 6/1), fine to medium grained, medium strong, DOLOMITIC LIMESTONE, (SALEM FORMATION) 127.0-128.5 ft. Numerous chert zones		332.20 127.00												127.0 ft. Inferred top of SALEM FORMATION encountered

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
128	127.0-136.9 ft. Fresh, medium bedded, light olive gray (5Y 6/1), fine to medium grained, medium strong, DOLOMITIC LIMESTONE, (SALEM FORMATION)		329.80 / 129.40	5	98%			90	J,PL,SM						
130								90	J,I,SM (2)						
132								90	J,I,SM (2)						
134	134.4-135.4 ft. Chert zones (< 1/2 in. thick)			6	99%			90	B,P,SM (2)						
136	136.9-144.3 ft. Fresh, medium bedded, light olive gray (5Y 6/1), fine grained, medium strong, ARGILLACEOUS LIMESTONE, (ST. LOUIS FORMATION) 322.00							90	J,I,R,CL						
	137.2-137.7 ft. 137.20 ARGILLACEOUS DOLOMITE layer							90	J,PL,R						
138	137.0 ft. Stylolites							90	J,I,SM,CL						
	138.0-139.4 ft. Numerous stylolites							90	J,I,R						
	139.4-141.8 ft. Four chert zones (1-5 in. thick)		319.80 / 139.40	7	100 %			90	B,PL,SM						139.4-141.8 ft. Very slow drilling
140								90	J,I,SM (2)						3/15/95 @ 15:00 Stop drilling for the day 3/20/95 @ 7:30 Began Run 8
			317.40 / 141.80					90	B,I,R						
142	142.9 and 143.8 ft. Light olive gray (5Y 6/1), arenaceous DOLOMITE layers (<4 in. thick)			8	92%			90	B,U,SM						
								90	J,I,R						
144															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
144			314.90	8	92%										
	144.3-147.5 ft. Fresh, thinly bedded, olive gray (5Y 4/1), fine grained, strong, CHERT, (SALEM FORMATION) Arenaceous		144.30						J,I,SM						
146	146.5 and 146.8 ft. Thin olive gray (5Y 4/1), arenaceous Dolomite layers (<3 in. thick)			9	100 %				J,I,R						
			311.70												
	147.5-157.5 ft. Fresh, thinly bedded, light olive gray (5Y 6/1), fine grained, medium strong, ARENACEOUS DOLOMITE, (SALEM FORMATION) Some chert nodules (5-10 mm. dia.), some thin chert layers (<2 in. thick)		147.50						J,I,R						
148									J,I,R						
			309.90												
	149.3-149.6 ft. Chert layers		149.30						B,PL,SM						
150	149.7 ft. Coarse calcite crystals (<1/2 in. dia.)								B,I,R						
152									J,I,R (2)						
	152.5-153.5 ft. Porous zone, open vugs (<1 in. dia.)								J,I,SM						
	153.4 and 154.2 ft. Chert layers (<5 in.)														
154				10	100 %				J,C,SM						
156	155.8 and 156.9 ft. Chert layers (<5 in.)								J,I,R						
									J,I,R						
									J,I,R						
158	157.5-174.5 ft. Fresh, thinly bedded, light olive gray (5Y 6/1), fine grained, medium strong, ARENACEOUS DOLOMITE, (SALEM FORMATION) Few chert nodules, (~5 mm.), scattered chert (thin layers of chert <3 mm.)								J,PL,SM						
			299.70						J,PL,SM						
	159.5-159.8 ft. Chert layer		159.50	11	100 %										

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2648
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	ROCK TYPE / DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
160	157.5-174.5 ft. Fresh, thinly bedded, light olive gray (5Y 6/1), fine grained, medium strong, ARENACEOUS DOLOMITE, (SALEM FORMATION) Few chert nodules, (~5 mm.), scattered chert (thin layers of chert <3 mm.)								J,PL,SM (3)						Most fractures observed are characterized as drill induced
162	160.5-160.7 ft. Chert layer 161.5-161.7 ft. Chert layer			11	100 %										
164	163.3-163.6 ft. Calcite crystals layer (large crystals)								J,I,R (2) J,I,R						
	294.20		294.70												
	165.0-167.0 ft. Fresh, thinly bedded, light olive gray (5Y 6/1), fine grained, medium strong, ARGILLACEOUS LIMESTONE, (SALEM FORMATION)		164.50												165.1-169.5 ft. 4-6 breaks per foot that were drill incuded
166															
168															
				12	100 %										
170	Scattered chert clasts throughout the sample 170.0-171.5 ft. Zone showing moderate porosity, open vugs (<2 mm.)														
172															
	172.8-173.2 ft. Conglomerate limestone with shale fragments 173.2-174.5 ft. Abundant fossil fragments replaced by silica														
174															
	174.5-176.6 ft. Fresh, thickly bedded, pale olive (10Y 6/2), fine to medium crystalline, strong, ARGILLACEOUS LIMESTONE, (SALEM FORMATION) Abundant fossil fragments		284.70 174.50												
176				13	100 %										

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

Sheet 7 of 19

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP w/r CORE AXIS	TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX: SW FR, MW, HW, CW	STRENGTH INDEX: R6, R5, R4, R3, R2, R1	POINT LOAD INDEX (psi): R1 30, R2 150, R3 300, R4 600, R5 1500, R6	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
176	176.6-179.1 ft. Fresh, medium bedded, pale olive (10Y 6/2), fine to medium grained, strong, SILICEOUS LIMESTONE, (SALEM FORMATION) Abundant fossil fragments														
178															
180	179.1-184.5 ft. Fresh, thickly bedded, pale olive (10Y 6/2), fine to medium coarse, strong, ARENACEOUS LIMESTONE, (SALEM FORMATION) Abundant fossil fragments Some layers of grayish yellow (5Y 8/4), clay material			13	100 %										
182															
184			274.70												
	184.5-188.5 ft. Fresh, medium bedded, yellowish gray (5Y 7/2), f-c grained, strong ARENACEOUS LIMESTONE, (SALEM FORMATION) Some fossil fragments, and some grayish yellow (5Y 2/4), clay material layers		184.50												
186															
188				14	100 %										
	188.5-194.5 ft. Slightly weathered, pale olive (10Y 6/2), medium bedded, very coarse, strong, BIOCLASTIC LIMESTONE, (SALEM FORMATION) Few chert nodules, few stylolites in bottom 4 ft., abundant layers of grayish yellow (5Y 8/4) clay, fossiliferous								B,PL,SM						
190									B,PL,SM						
192															Stopped drilling for the day

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LA/DLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-SlKensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
192	188.5-194.5 ft. Slightly weathered, pale olive (10Y 6/2), medium bedded, very coarse, strong, BIOCLASTIC LIMESTONE, (SALEM FORMATION) Few chert nodules, few stylolites in bottom 4 ft., abundant layers of grayish yellow (5Y 8/4) clay, fossiliferous			14	100 %						SW FR MW HW CW	R6 R5 R4 R3 R2 R1	R1 30 R2 150 R3 300 R4 600 R5 1500 R6		
194	194.5-197.5 ft. Fresh, thinly bedded, light olive gray (5Y 6/1), fine grained, strong, ARGILLACEOUS LIMESTONE, (SALEM FORMATION) Few chert nodules stylolitic, abundant fossil fragments		264.70 / 194.50												3/21/95 @ 7:30 Water level = 20.1 ft. BGS
196															
198	197.5-204.5 ft. Fresh, thinly bedded, light olive gray (5Y 4/1), fine grained, medium strong, ARGILLACEOUS LIMESTONE, (SALEM FORMATION) Few chert nodules, few stylolites, abundant fossil fragments and abundant layers of grayish yellow (5Y 8/4) clay throughout sample			15	100 %										
200															
202															
204	204.5-210.8 ft. Fresh, thinly bedded, dark greenish gray (5GY 4/1), f-c grained, medium strong, LIMESTONE, (SALEM FORMATION) Few chert nodules, stylolites, few clay layers of a grayish yellow color, <3 mm. vugs, with calcite crystals		254.70 / 204.50												
206				16	100 %										
208															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 8/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2648
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP w/r CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
208	204.5-210.8 ft. Fresh, thinly bedded, dark greenish gray (5GY 4/1), f-c grained, medium strong, LIMESTONE, (SALEM FORMATION) Few chert nodules, stylolites, few clay layers of a grayish yellow color, <3 mm. vugs, with calcite crystals														
210															
			248.40												
	210.8-212.8 ft. Fresh, thickly bedded, dark greenish gray (5GY 4/1) to greenish black (5GY 2/1), very fine grained, weak, SILTSTONE, (WARSAW FORMATION)		210.80	18	100 %										210.8 ft. Encountered top of WARSAW FORMATION
212															
			246.40												
	212.8-219.7 ft. Fresh, thinly bedded, light olive gray, fine to coarse grained, medium strong, DOLOMITIC LIMESTONE, (WARSAW FORMATION) Fossiliferous, few chert nodules, stylolites		212.80												
214															
			244.70												
			214.50												
216															
				17	100 %										
218															
			239.50												
			219.70												
220	220.2-224.3 ft. Slightly weathered, thickly bedded, light olive gray (5Y 6/1), finely crystalline, medium strong, DOLOMITE, (WARSAW FORMATION)								J,PL,SM,CL						
				18	100 %										3/21/95 @ 11:00 End Run 17 Drilling stopped until surface casing installed to top of WARSAW FORMATION 4/9/95 Borehole reamed out to 84.0 ft. with 14 3/4 in. tricone bit and mud rotary then 10 in. casing set in hole
222															4/9/95 6 in. steel casing set to 215.3 ft. and sealed with neat cement. A 10 in. air rotary bit was used to drill borehole. 4/22/95 @ 11:02 Begin drilling Run 18 with NX core
									J,U,SM-calcite						
224															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068820.78
AZIMUTH: 0

COLLAR ELEV: 458.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
224			234.90						J,I,SM						
	224.3-227.4 ft. 224.30 Fresh, thickly bedded, light brownish gray (5YR 6/1) to medium gray (N5), coarse grained, medium strong, FOSSILIFEROUS LIMESTONE, (WARSAW FORMATION) Not porous, sandy, fine fossil debris, clast supported			18	100 %										
226			231.80						J,U,SM,CL						
	227.4-231.6 ft. 227.40 Slightly weathered, thickly bedded, light olive gray (5Y 6/1), finely crystalline, medium strong, DOLOMITE, (WARSAW FORMATION) Porous-vuggy, crystallized, numerous calcite filled vugs and veins														
228									J,I,R						
			230.10												
			229.10												
230															
			227.60						J,I,R						
	231.6-233.3 ft. 231.60 Fresh, thickly bedded, light olive gray (5Y 6/1), fine grained, medium strong, ARGILLACEOUS LIMESTONE, (WARSAW FORMATION) Bioturbated														
232															
	233.3-236.1 ft. Fresh, thickly laminated, medium dark gray (N4), very fine grained, weak, ARGILLACEOUS LIMESTONE, (WARSAW FORMATION) Bioturbated, almost Claystone			19	100 %				J,I,SM,CL						
234															
			223.10												
236	236.1-239.4 ft. 236.10 Fresh, thickly laminated to thinly bedded, medium gray (N5), very fine grained, medium strong, ARGILLACEOUS CALCAREOUS DOLOMITE, (WARSAW FORMATION) Stylolitic, greenish clay infilled vug and vein @ 238.6 ft.								J,PL,SM,CL						
238															
	239.4-243.5 ft. Fresh, thickly bedded, medium dark gray (N4), coarse grained, medium strong, FOSSILIFEROUS LIMESTONE, (WARSAW FORMATION) Few stylolites, <0.1 ft. clay seams								J,PL,R-calcite						
			220.10												
			219.80 239.10												
			239.40	20	100 %				J,I,SM,CL						
240															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1088620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
	ROCK TYPE										SW FR MW HW CW	R6 R5 R4 R3 R2 R1	R1 30 R2 150 R3 300 R4 600 R5 1500 R6		
240															
242															
244	215.70 243.5-244.0 ft. Fresh, thickly bedded, medium dark gray (N4), fine grained, medium strong, ARGILLACEOUS DOLOMITE, (WARSAW FORMATION) 243.50 215.20 244.00			20	100 %										
246	244.0-250.3 ft. Fresh, thickly bedded, medium dark gray (N4), coarse grained, medium strong, FOSSILIFEROUS LIMESTONE, (WARSAW FORMATION) 246.1-246.5 ft. Argillaceous Limestone, stylolitic								J,PL,SM,CL						
248			210.00 249.20												
250	208.50 250.7-251.3 ft. Fresh, thinly to thickly laminated, medium gray (N5), very fine grained, medium strong, ARGILLACEOUS DOLOMITE, (WARSAW FORMATION) 250.70 207.90 251.30								J,I,SM,CL						
252	251.3-256.5 ft. Fresh, thickly bedded, medium light gray (N6) to light olive gray (5Y 2/1), coarse grained, medium strong, FOSSILIFEROUS LIMESTONE, (WARSAW FORMATION)			21	100 %										
254	Fossil fragments at 255.6 ft., few Clay partings, some porosity, vugs in lower 2 in.								J,I,SM						
256															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 8/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068820.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515050.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
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P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
256									J,I,R,CL						
	202.70														
	256.5-260.1 ft. 258.50 Slightly weathered, thickly bedded, medium gray (N5), very finely crystalline, medium strong, ARGILLACEOUS DOLOMITE, (WARSAW FORMATION)			21	100 %				J,PL,SM,CL						
258	Some porosity, large vug @ 258.8 ft., some smaller vugs elsewhere, some calcite filled, black organic laminae		200.10												
			259.10												4/22/95 @ 17:45 End Run 21 Quit drilling for the day 4/23/95 @ 7:30 Begin Run 22
260	260.1-265.5 ft. Fresh, thinly to thickly laminated, greenish black (5GY 2/1), very fine grained, weak, DOLOMITIC SILTSTONE, (WARSAW FORMATION)								J,I,SM,CL						
262															
264				22	98%										
	193.70								J,PL,SM,CL						
	265.5-269.0 ft. 265.50 Fresh, thickly bedded, medium light gray (N6) to light olive gray (5Y 6/1), coarse grained, medium strong, FOSSILIFEROUS LIMESTONE, (WARSAW FORMATION)														
266															
268															
	190.20														
	269.0-272.8 ft. 269.00 Fresh, thickly laminated to thinly bedded, medium dark gray (N4), very fine grained, medium strong, DOLOMITIC SILTSTONE, (WARSAW FORMATION) Abundant 0.1-0.4 ft. interbeds of coarse crystalline arenaceous Dolomite		190.10 269.10												
270				23	98%				J,PL,SM,CL						
272															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: S. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LA/DLAW/Rt-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068820.78
AZIMUTH: 0

COLLAR ELEV: 458.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
272									J,PL,SM,CL						
	186.40														
	272.8-274.0 ft. 272.80 Fresh, thickly laminated, greenish black (5GY 2/1), very fine grained, weak, CLAYSTONE, (WARSAW FORMATION) 185.20								J,PL,SM,CL (2)						
274	274.0-290.2 ft. 274.00 Fresh, thickly laminated to medium bedded, medium light gray (N6) to medium dark gray (N4), vf-m grained, weak to medium strong, SILTSTONE, (WARSAW FORMATION) Calcite filled vugs, interbeds of Silty to Sandy Dolomitic Siltstone														
				23	98%				J,U,SM,CL						
276															
278															
			180.20												
			279.00												
280															
282															
				24	100 %										
284									J,I,SM						
286															
288															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: GRAPHIC LOG	WEATHERING INDEX (SW FR, MW, HW, CW)	STRENGTH INDEX (R6, R5, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
288	274.0-290.2 ft. Fresh, thickly laminated to medium bedded, medium light gray (N6) to medium dark gray (N4), vf-m grained, weak to medium strong, SILTSTONE, (WARSAW FORMATION) Calcite filled vugs, interbeds of Silty to Sandy Dolomitic Siltstone		170.30	24	100%										
			288.90												
290			169.00	25	100%										
	290.2-293.7 ft. Fresh, thickly laminated to thinly bedded, medium gray (N5), finely crystalline, medium strong, ARENACEOUS DOLOMITE, (WARSAW FORMATION) Dark gray (N3) argillaceous laminae, bioturbated		290.20												
292	165.50														
	293.7-295.2 ft. Fresh, thinly laminated, medium dark gray (N8), very fine grained, weak, SILTSTONE, (WARSAW FORMATION)			26	100%										
294	164.00														
	295.2-306.8 ft. Fresh, thickly laminated to thinly bedded, medium gray (N5), finely crystalline, medium strong, ARENACEOUS DOLOMITE, (WARSAW FORMATION) Argillaceous laminae, no porosity								J,U,SM						
296															
298			160.20												
			299.00												
300															
				27	100%										
302	302.8-303.6 ft. Fossiliferous Dolomite interbed														
304															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2648
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	ROCK TYPE DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (SW FR, SW MW, HW CW)	STRENGTH INDEX (R6, R5, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
304	295.2-306.8 ft. Fresh, thickly laminated to thinly bedded, medium gray (N5), finely crystalline, medium strong, ARENACEOUS DOLOMITE, (WARSAW FORMATION) Argillaceous laminae, no porosity														
306	152.40			27	100 %										
	306.8-315.2 ft. 306.80 Fresh, thickly laminated to thinly bedded, very light gray (N8) to dark greenish gray (5GY 4/1), f-m grained, medium strong, FOSSILIFEROUS LIMESTONE and DOLOMITIC SILTSTONE, (WARSAW FORMATION) Interbedded fossiliferous beds and shaley beds		150.30												
308			308.90												
310									J,PL,SMC,L						
312									J,PL,SM,CL						
									J,PL,SM,CL						
314				28	100 %										
	315.2-328.7 ft. Fresh, thickly laminated to medium bedded, medium light gray (N6) to olive gray (5Y 4/1), ? to medium sand, medium strong, FOSSILIFEROUS LIMESTONE and CALCAREOUS SILTSTONE, (WARSAW FORMATION)								J,PL,SM						
316															
318									J,PL,SM,CL						4/23/95 @ 15:02 End Run 28 Quit drilling for the day 4/24/95 @ 12:00 Begin Run 29
			140.10												
			319.10												
320				29	100 %										

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

ROCK TYPE

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD (80, 60, 40, 20)	FRACTURES PER FOOT (2, 4, 6, 8, 10)	DISCONTINUITY DATA: DIP wrt CORE AXIS (0, 30, 60, 90)	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (SW FR, MW, HW, CW)	STRENGTH INDEX (R6, R5, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
320	315.2-328.7 ft. Fresh, thickly laminated to medium bedded, medium light gray (N6) to olive gray (5Y 4/1), medium sand, medium strong, FOSSILIFEROUS LIMESTONE and CALCAREOUS SILTSTONE, (WARSAW FORMATION)								J,PL,R						
322															
	Calcareous Shale interbeds <0.1-0.5 ft. thick, some lithographic textures, commonly silicified														
324				29	100 %										
326															
328															
	328.7-330.8 ft. Fresh, thickly laminated, light gray (N7) to light olive gray (5Y 6/1), clay sized to coarse silt sized, medium strong, ARGILLACEOUS LIMESTONE, (WARSAW FORMATION) Chert common, calcite vugs		130.10												
330			329.10						J,I,SM,CL						
	330.8-336.4 ft. Fresh, thickly laminated to medium bedded, medium light gray (N6), clay sized to very coarse sand sized, medium strong, LITHOCLASTIC LIMESTONE and CALCAREOUS SILTSTONE, (WARSAW FORMATION) Interbedded <0.1-0.3 lithoclastic beds with clayey shales, silicification common, few stylolites			30	100 %										
332															
									J,I,R-open						
334															
									J,U,SM						
336															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

Sheet 17 of 19

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH (FEET)	ROCK TYPE DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
336	336.4-343.7 ft. Fresh, thickly laminated to medium bedded, medium light gray (N6), clay sized to very coarse sand sized, medium strong, ARENACEOUS LIMESTONE and ARGILLACEOUS LIMESTONE, (WARSAW FORMATION) Highly silicified, some lithographic textures			30	100 %				J,PL,SM						
338									J,U,SM,CL						
			120.10												
			339.10												
340															
342															
			115.50												
344	343.7-368.8 ft. 343.70 Fresh, thickly laminated to medium bedded, very light gray (N8) to medium light gray (N6), fine silt sized to coarse silt sized, medium strong, SILICEOUS LIMESTONE and ARENACEOUS LIMESTONE, (KEOKUK FORMATION) Diseminated chert abundant, calcareous dolomitic, silty Clay interbeds, differential compaction features			31	100 %										343.7 ft. Top of KEOKUK FORMATION encountered
346															
348									J,I,R						
			110.60												
			348.60												
350	350.5-350.9 ft. Porous			32	100 %				J,I,R						
352	351.6-363.8 ft. Porous, vuggy														

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2648
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH (FEET)	ROCK TYPE DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (SW FR, MW HW, CW)	STRENGTH INDEX (R6 R5 R4 R3 R2 R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
352	343.7-368.8 ft. Fresh, thickly laminated to medium bedded, very light gray (N8) to medium light gray (N6), fine silt sized to coarse silt sized, medium strong, SILICIOUS LIMESTONE and ARENACEOUS LIMESTONE, (KEOKUK FORMATION) Diseminated chert abundant, calcareous dolomitic, silty Clay interbeds, differential compaction features														
354															
356				32	100 %										
358									J,I,R (2)						
			100.40												
			358.80												
									J,I,VR						
360									J,I,VR						
362															
									J,PL,VR						
				33	100 %				J,PL,R						
364									J,I,R						
366															
368															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-KS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 3/15/95-3/21/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1068620.78
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515850.23
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
368				33	100 %										4/24/95 @ 18:45 End Run 33
	90.40		90.40												
	End of Record of Drillhole at 368.8 ft. 368.80		368.80												
370															
372															
374															
376															
378															
380															
382															
384															

WEATHERING INDEX: FR, SW, MW, HW, CW
STRENGTH INDEX: R6, R5, R4, R3, R2, R1
POINT LOAD INDEX (psi): R6 1500, R5 600, R4 300, R3 150, R2 30, R1

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: S. COSIO
CHECKED: B. TILTON
DATE: 6/5/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-SD

Sheet 1 of 2

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 4/11/95
DRILL RIG: Schramm

DATUM: MSL
COORDINATES N: 1068638.1
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515834.6
INCLINATION: -90

J-Joint; F-Fault; S-Shear; B-Bedding; F-Foliation
PL-Planar; C-Curved; U-Undulating; ST-Stepped; I-Irregular
P-Polished; K-Slikensided; SM-Smooth; R-Rough; VR-V. Rough

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
192	0.0-199.9 ft. No sampling conducted See Record of Drillhole for PZ-111-KS														0.0-98.0 ft. On 4/10/95 borehole advanced with 9 7/8 in. bit using mud rotary then 6 in. steel casing grouted in annulas with neat cement, at 91.0 ft. component bedrock encountered
194															
196															
198															
200	199.9-209.9 ft. 199.90 Fresh, very thickly bedded, medium gray (N5), coarsely crystalline, medium strong, FOSSILIFEROUS LIMESTONE Upper 0.1 ft. abundantly fossiliferous Argillaceous, arenaceous, abundantly fossiliferous, few stylolites, few calcite filled vugs		259.30 199.90	1	99%			J,PL,SM (3) J,PL,R							4/11/95 @ 10:24 Began Run 1
202															
204															
206															
208															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: M. VOGT

LOGGED: J. MILLER
CHECKED: B. TILTON
DATE: 5/24/95

Golder Associates

RECORD OF DRILLHOLE PZ-111-SD

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 4/11/95
DRILL RIG: Schramm

DATUM: MSL
COORDINATES N: 1068638.1
AZIMUTH: 0

COLLAR ELEV: 459.2
E: 515834.8
INCLINATION: -90

ROCK TYPE: J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation; PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular; P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD (80 60 40 20)	FRACTURES PER FOOT (2 4 6 8 10)	DISCONTINUITY DATA: DIP wrt CORE AXIS (0 30 60 90)	TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (FR SW MW HW CW)	STRENGTH INDEX (R6 R5 R4 R3 R2 R1 R1)	POINT LOAD INDEX (psi) (R1 30 R2 150 R3 300 R4 600 R5 1500 R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
208	199.9-209.9 ft. Fresh, very thickly bedded, medium gray (N5), coarsely crystalline, medium strong, FOSSILIFEROUS LIMESTONE Upper 0.1 ft. abundantly fossiliferous			1	99%										4/11/95 @ 12:08 End Run 1
	249.30		249.30												
210	End of Record of Drillhole at 209.9 ft. 209.90		209.90												
212															
214															
216															
218															
220															
222															
224															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: M. VOGT

LOGGED: J. MILLER
CHECKED: B. TILTON
DATE: 5/24/95

Golder Associates

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2
DRILLING METHOD:	4.25 inch I.D. Hollow Stem Auger
SAMPLING METHOD:	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)
BORING NO.	PZ-112-AS
SHEET	1 OF 3
DRILLING	START / FINISH
WATER LEVEL	
TIME	START: 13:20 / FINISH: 15:29
DATE	START: 4/10/95 / FINISH: 4/10/95
CASING DEPTH	
DATUM	NORTHING: 1069002.00 EASTING: 515674.01
ELEVATION	457.9
DRILL RIG	CME 75
SURFACE CONDITIONS	
ANGLE	VERTICAL
BEARING	
SAMPLE HAMMER	140 lbs.

DEPTH IN FEET (ELEVATION)	BLOW/6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
1	2 2 2 7	1.1' / 2.0' (55%)			(0.0-4.0 ft.) Loose to compact, moderate yellowish brown (10YR 5/4) to dark greenish gray (5G 4/1), SILT, trace fine Gravel, NR, damp, (ML), (FILL)	SP ①	
2							
3	5 12 7 6	0.0' / 2.0' (0%)				SP ②	
4					(453.9) 4.0		
5	6 50/6"	0.8' / 2.0' (40%)			(4.0-8.5 ft.) Very dense, medium bluish gray (5GY 5/1), f-c SAND, trace of Fine Gravel, SR, damp, (SP), (FILL)	SP ③	
6					@ 5.0 ft., cobbles and rock encountered		Drilling very hard from 5.0-8.0 ft. Split Spoons not collected
7							
8	6 7 11 9	1.6' / 2.0' (80%)			(449.4) 8.5		
9					(8.5-10.0 ft.) Waste	SP ④	
10					(447.9) 10.0		
11	3 4 9 5	0.6' / 2.0' (30%)			(10.0-10.6 ft.) Compact, medium bluish gray (5B 5/1), f-c SAND, trace of Fine Gravel, SR, moist, (SP), (FILL) (447.3) 10.6	SP ⑤	
12					(10.6-20.0 ft.) Waste		
13	4 20 14 9	0.8' / 2.0' (40%)				SP ⑥	
14	3 3 8 18	0.2' / 2.0' (10%)				SP ⑦	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY S. COSIO CHK'D BY W. HERST

DATE 5/31/95

JOB NO.: 943-2848

FILENAME: PZ112AS

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2	DRILLING METHOD: 4.25 inch I.D. Hollow Stem Auger SAMPLING METHOD: SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)	BORING NO. PZ-112-AS SHEET 2 OF 3 DRILLING START / FINISH
NORTHING: 1069002.00 DATUM EASTING: 515674.01 ELEVATION 457.9	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME 13:20 / 15:29 DATE 4/10/95 / 4/10/95
DRILL RIG CME 75 ANGLE VERTICAL BEARING SAMPLE HAMMER 140 lbs.	SURFACE CONDITIONS	

DEPTH IN FEET (ELEVATION)	BLOW/6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
16	9 10 11 25	0.8'/2.0' (40%)			(10.6-20.0 ft.) Waste	SP (7)	
17						SP (8)	
18	50/5"	0.1'/2.0' (5%)				SP (9)	
19							
20	5 3 3 3	1.5'/2.0' (75%)			(437.9) 20.0 (20.0-20.5 ft.) Firm, greenish black (5G 2/1), CLAYEY SILT, NR, damp, (CL-ML), (FILL) (437.4) 20.5 (20.5-22.0 ft.) Loose, medium light gray (N6), f-c SAND, NR, damp to moist, (SP), (FILL)	SP (10)	
21							
22	3 4 6 8	0.4'/2.0' (20%)			(435.9) 22.0 (22.0-24.0 ft.) Stiff, greenish black (5G 2/1), CLAYEY SILT, NR, wet, (CL-ML), (ALLUVIUM)	SP (11)	First water encountered @ 23.0 ft.
23							
24	12 17 16 15	2.0'/2.0' (100%)			(433.9) 24.0 (24.0-26.0 ft.) Dense, dark greenish gray (5GY 4/1), fine SAND, NR, wet, (SP), (ALLUVIUM)	SP (12)	
25							
26	4 2 3 7	1.8'/2.0' (90%)			(431.9) 26.0 (26.0-28.0 ft.) Loose, olive gray (5Y 4/1), CLAYEY fine SAND, NR, wet, (SC), (ALLUVIUM)	SP (13)	
27							
28	3 3 10 21	1.3'/2.0' (65%)			(429.9) 28.0 (28.0-36.0 ft.) Compact to dense, olive gray (5Y 4/1), fine SAND, NR, wet, (SP), (ALLUVIUM)	SP (14)	
29							

DRILLING CONTR LAYNE-WESTERN

LOGGED BY S. COSIO CHK'D BY W. HERST

DATE 5/31/95

JOB NO.: 943-2848

FILENAME: PZ112AS

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

LAIDLAW/OU2 RI-FS/MO
WEST LAKE LANDFILL
OPERABLE UNIT 2

NORTHING: 1069002.00
DATUM EASTING: 515674.01 ELEVATION 457.9

DRILLING METHOD: 4.25 inch I.D. Hollow Stem Auger

SAMPLING METHOD:
SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)
SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					13:20	15:29
DATE					DATE	DATE
CASING DEPTH					4/10/95	4/10/95

BORING NO. PZ-112-AS

SHEET 3 OF 3

DRILL RIG CME 75

ANGLE VERTICAL BEARING

SAMPLE HAMMER 140 lbs.

SURFACE CONDITIONS

DEPTH IN FEET (ELEVATION)	BLOW/6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
31	10 30 50/6"	1.2'/2.0' (60%)			(28.0-36.0 ft.) Compact to dense, olive gray (5Y 4/1), fine SAND, NR, wet, (SP), (ALLUVIUM)	SP (15)	
32	9 11 11 16	1.0'/2.0' (50%)			from 32.0-34.0 ft., sand becomes f-m grained	SP (16)	
33							
34	10 13 15 20	2.0'/2.0' (100%)			from 34.0-36.0 ft., sand becomes f-c grained	SP (17)	
35							
36					(421.9) 36.0 End of Soil Borehole Log at 36.0 ft.		
37							
38							
39							
40							
41							
42							
43							
44							

DRILLING CONTR LAYNE-WESTERN

LOGGED BY S. COSIO

DATE 5/31/95 CHK'D BY W. HERST

JOB NO.: 943-2848

FILENAME: PZ112AS

SOIL BOREHOLE LOG

LAIDLAW WASTE SYSTEMS INC.

SITE NAME AND LOCATION	LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2
DRILLING METHOD:	4.25 inch I.D. Hollow Stem Auger
SAMPLING METHOD:	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)
BORING NO.	PZ-113-AS
SHEET	1 OF 3
DRILLING START TIME	11:07
DRILLING FINISH TIME	14:55
DRILLING START DATE	4/11/95
DRILLING FINISH DATE	4/11/95
WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM	NORTHING: 1069224.31 EASTING: 515747.72
ELEVATION	459.9
DRILL RIG	CME 75 - TRUCK MOUNT
ANGLE	VERTICAL
BEARING	NA
SAMPLE HAMMER	140 lbs.
SURFACE CONDITIONS	

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
1					(0.0-2.5 ft.) Asphalt		
2					(457.4) 2.5		
3	10 11 11	1.5'/1.5' (100%)			(2.5-4.0 ft.) Compact, light olive gray (5Y 6/1), CLAYEY GRAVEL, little f-c Sand, SR, damp, (GC), (FILL)	SP (1)	
4					(455.9) 4.0		
	6 10 11	1.7'/2.0' (85%)			(4.0-4.8 ft.) Compact, olive gray (5Y 4/1), SILTY fine SAND, mottled NR, damp, (SM), (FILL)	SP (2)	
5	13				(455.1) 4.8 (4.8-10.0 ft.) Stiff, mottled, light olive gray (5Y 6/1) to greenish black (5GY 2/1), CLAYEY SILT, mottled, NR, damp, (CL-ML), (LOESS)		
6	5 8 7	1.7'/2.0' (85%)				SP (3)	
7	9						
8	2 3 5	1.2'/2.0' (60%)				SP (4)	
9	6						
10					(449.9) 10.0		
	3 3 3	1.4'/2.0' (70%)			(10.0-18.0 ft.) Loose, light olive gray (5Y 4/1), mottled SILT, NR, damp, (ML), (LOESS)	SP (5)	
11	4						
12	3 2 3	1.3'/2.0' (65%)				SP (6)	
13	6						
14	4 3 3 3	1.3'/2.0' (65%)				SP (7)	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER CHK'D BY W. HERST

DATE 1/25/95

JOB NO.: 943-2848

FILENAME: PZ113AS

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

LAIDLAW/OU2 RI-FS/MO
WEST LAKE LANDFILL
OPERABLE UNIT 2

NORTHING: 1069224.31
DATUM EASTING: 515747.72 ELEVATION 459.92

DRILLING METHOD: 4.25 inch I.D. Hollow Stem Auger

SAMPLING METHOD:
SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)
SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					11:07	14:55
DATE					DATE	DATE
CASING DEPTH					4/11/95	4/11/95

BORING NO. PZ-113-AS

SHEET 2 OF 3

DRILL RIG CME 75 - TRUCK MOUNT

ANGLE VERTICAL BEARING NA

SAMPLE HAMMER 140 lbs.

SURFACE CONDITIONS

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE		REMARKS
16	2 2 2 3	1.6' / 2.0' (80%)			(10.0-18.0 ft.) Loose, light olive gray (5Y 4/1), SILT, mottled, NR, damp, (ML), (LOESS)	SP	7	
17						SP	8	
18					(441.9) 18.0			
	1 2 4 2	2.0' / 2.0' (100%)			(18.0-21.3 ft.) Firm to soft, dark greenish gray (5GY 4/1), mottled CLAYEY SILT, NR, moist, (CL-ML), (ALLUVIUM)			
19						SP	9	
20	0 0 3 6	2.0' / 2.0' (100%)						
21					(438.6) 21.3	SP	10	
					(21.3-26.2 ft.) Firm to stiff, greenish black (5GY 2/1), CLAY, NR, moist, (CH), (ALLUVIUM)			
22	5 6 8 9	1.6' / 2.0' (80%)						
23						SP	11	
24	2 3 4 8	1.9' / 2.0' (95%)						First water encountered @ 24.5 ft.
25						SP	12	
26	7 9 12 14	2.0' / 2.0' (100%)			(433.7) 26.2			
					(26.2-40.0 ft.) Compact to dense, dark greenish gray (5GY 4/1), fine SAND, trace Silt, NR, wet, (SP), (ALLUVIUM)			
27						SP	13	
28	8 11 11 18	1.8' / 2.0' (90%)						
29						SP	14	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER CHK'D BY W. HERST

DATE 1/25/95

JOB NO.: 943-2848

FILENAME: PZ113AS

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2
DRILLING METHOD:	4.25 inch I.D. Hollow Stem Auger
SAMPLING METHOD:	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)
BORING NO.	PZ-113-AS
SHEET	3 OF 3
DRILLING	START / FINISH
WATER LEVEL	
TIME	START: 11:07 / FINISH: 14:55
DATE	START: 4/11/95 / FINISH: 4/11/95
CASING DEPTH	
DATUM	NORTHING: 1069224.31 EASTING: 515747.72
ELEVATION	459.92
DRILL RIG	CME 75 - TRUCK MOUNT
SURFACE CONDITIONS	
ANGLE	VERTICAL
BEARING	NA
SAMPLE HAMMER	140 lbs.

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
31	10 14 18 21	1.8'/2.0' (90%)			(26.2-40.0 ft.) Compact to dense, dark greenish gray (5GY 4/1), fine SAND, trace Silt, NR, wet, (SP), (ALLUVIUM)	SP (15)	
32	8 12 17 15	1.2'/2.0' (60%)			from 32.0-34.0 ft., color changes to pale yellowish brown (10YR 6/2)	SP (16)	
34	8 10 15 16	2.0'/2.0' (100%)			from 34.0-34.5 ft., sand becomes fine to medium grained	SP (17)	
36	6 7 7 10	1.9'/2.0' (95%)			from 37.5-38.0 ft., some coarse sand	SP (18)	
38							from 38.0-40.0 ft., unable to collect split spoon samples due to heaving sands
40					(419.9) 40.0 End of Soil Borehole Log at 40.0 ft.		
41							
42							
43							
44							

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER DATE 1/25/95 CHK'D BY W. HERST

JOB NO.: 943-2848

FILENAME: PZ113AS

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2	0.0-40.0 ft.: 4.25 inch I.D. Hollow Stem Auger 40.0-108.3 ft.: 3.875 inch Mud Rotary (Tricone)	PZ-113-AD
	SAMPLING METHOD:	SHEET 1 OF 7
	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SPLIT SPOON: 3.0 inch O.D./.375 inch I.D. (HD)	DRILLING

WATER LEVEL					START	FINISH
TIME					TIME 11:03	TIME 15:50
DATE					DATE 4/26/95	DATE 4/27/95
CASING DEPTH						

DATUM NORTHING: 1069233.33 EASTING: 515759.85 ELEVATION 459.9

DRILL RIG CME 75 - TRUCK MOUNT

SURFACE CONDITIONS Paved road

ANGLE VERTICAL BEARING NA

SAMPLE HAMMER 140

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE		REMARKS
16					(0.0-20.0 ft.) No samples collected, see Soil Borehole Log PZ-113-AS for descriptions			
17								
18								
19								
20					(439.9) 20.0			
	2 5 9	0.9'/1.5' (60%)			(20.0-27.0 ft.) Stiff, olive gray (5Y 4/1), SILTY CLAY, trace very fine Sand, NR, moist, (CH), (ALLUVIUM)	SP 1		
21								
22	6 8 13	1.0'/1.5' (67%)				SP 2		
23	5 7 7	1.5'/1.5' (100%)				SP 3		
24								
25	2 7 7	1.3'/1.5' (87%)				SP 4		
26	4 6 8	1.2'/1.5' (80%)				SP 5		
27					(432.9) 27.0 (27.0-40.0 ft.) Compact, dark greenish gray (5GY 4/1), fine SAND, some Clay, NR, wet, (SC), (ALLUVIUM)			
28								
29								

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER

DATE 6/21/95 CHK'D BY W. HERST

JOB NO.: 943-2848

FILENAME: PZ113AD

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

LAIDLAW/OU2 RI-FS/MO
WEST LAKE LANDFILL
OPERABLE UNIT 2

NORTHING: 1069233.33
DATUM EASTING: 515759.85 ELEVATION 459.9

DRILLING METHOD:
0.0-40.0 ft.: 4.25 inch I.D. Hollow Stem Auger
40.0-108.3 ft.: 3.875 inch Mud Rotary (Tricone)

SAMPLING METHOD:
SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)
SPLIT SPOON: 3.0 inch O.D./.375 inch I.D. (HD)

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					11:03	15:50
DATE					4/26/95	4/27/95
CASING DEPTH						

BORING NO. PZ-113-AD

SHEET 2 OF 7

DRILL RIG CME 75 - TRUCK MOUNT

SURFACE CONDITIONS Paved road

ANGLE VERTICAL BEARING NA

SAMPLE HAMMER 140

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE		REMARKS
31					(27.0-40.0 ft.) Compact, dark greenish gray (5GY 4/1), fine SAND, some Clay, NR, wet, (SC), (ALLUVIUM)			
32								
33								
34								
35								
36								
37								
38								
39								
40	4 8 9	0.5' 1.5' (33%)			(419.9) 40.0 (40.0-41.5 ft.) Compact, light brown (5YR 5/6) to pale yellowish brown (10YR 6/2), medium SAND, trace very fine Sand, NR, wet, (SP), (ALLUVIUM)	SP 6		
41					(418.4) 41.5			
42	6 6 8	0.3' 1.5' (17%)			(41.5-44.0 ft.) Compact, light brown (5YR 5/6) to light brown (5YR 6/4), fine GRAVEL, NR, wet, (GW), (ALLUVIUM)	SP 7		
43	4 7 11 13	0.9' 2.0' (45%)			(415.9) 44.0 (44.0-48.5 ft.) Compact, dark yellowish brown (10YR 4/2), medium SAND, trace coarse Sand, trace fine Sand, NR, wet, (SP), (ALLUVIUM)	SP 8		
44								

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER CHK'D BY W. HERST

DATE 6/21/95

JOB NO.: 943-2848

FILENAME: PZ113AD

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

LAIDLAW/OU2 RI-FS/MO
WEST LAKE LANDFILL
OPERABLE UNIT 2

NORTHING: 1069233.33
DATUM EASTING: 515759.85 ELEVATION 459.9

DRILLING METHOD:
0.0-40.0 ft.: 4.25 inch I.D. Hollow Stem Auger
40.0-108.3 ft.: 3.875 inch Mud Rotary (Tricone)

SAMPLING METHOD:
SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)
SPLIT SPOON: 3.0 inch O.D./.375 inch I.D. (HD)

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					11:03	15:50
DATE						
CASING DEPTH					4/26/95	4/27/95

BORING NO. PZ-113-AD

SHEET 3 OF 7

DRILL RIG CME 75 - TRUCK MOUNT

SURFACE CONDITIONS Paved road

ANGLE VERTICAL BEARING NA

SAMPLE HAMMER 140

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
46	5 6 9 2	0.7' / 2.0' (35%)			(44.0-48.5 ft.) Compact, dark yellowish brown (10YR 4/2), medium SAND, trace coarse Sand, trace fine Sand, NR, wet, (SP), (ALLUVIUM)	SP 9	
47	8 13 15 19	1.1' / 2.0' (55%)				SP 10	
48					(48.5-49.5 ft.) Compact, olive gray (5Y 4/1), fine SAND, some medium Sand, NR, wet, (SP), (ALLUVIUM)		
49	10 10 10 11	0.9' / 2.0' (45%)			(49.5-53.0 ft.) Compact, olive gray (5Y 4/1), medium SAND, trace fine Sand, trace coarse Sand and fine Gravel, trace Silt, NR, wet, (SP), (ALLUVIUM)	SP 11	
50							
51	6 7 9 7	0.9' / 2.0' (45%)				SP 12	
52							
53					(406.9) 53.0		
54	3 6 5 6	0.9' / 2.0' (45%)			(53.0-61.5 ft.) Compact, olive gray (5Y 4/1), medium SAND, little Sand, trace fine Gravel, trace fine Sand and Silt, NR, wet, (SW), (ALLUVIUM)	SP 13	
55	6 4 5 6	0.9' / 2.0' (45%)				SP 14	
56							
57	4 4 5 6	0.9' / 2.0' (45%)				SP 15	
58							
59	5 6 6 7	1.0' / 2.0' (50%)				SP 16	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER

DATE 6/21/95 CHK'D BY W. HERST

JOB NO.: 943-2848

FILENAME: PZ113AD

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

LAIDLAW/OU2 RI-FS/MO
WEST LAKE LANDFILL
OPERABLE UNIT 2

NORTHING: 1069233.33
DATUM EASTING: 515759.85 ELEVATION 459.9

DRILLING METHOD:	BORING NO. PZ-113-AD
0.0-40.0 ft.: 4.25 inch I.D. Hollow Stem Auger	
40.0-108.3 ft.: 3.875 inch Mud Rotary (Tricone)	SHEET 4 OF 7
SAMPLING METHOD:	
SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)	DRILLING
SPLIT SPOON: 3.0 inch O.D./.375 inch I.D. (HD)	START / FINISH
WATER LEVEL	TIME 11:03 / TIME 15:50
TIME	
DATE	DATE 4/26/95 / DATE 4/27/95
CASING DEPTH	

DRILL RIG CME 75 - TRUCK MOUNT
SURFACE CONDITIONS Paved road
ANGLE VERTICAL BEARING NA
SAMPLE HAMMER 140

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE		REMARKS
61	6 10 10 12	0.9' 2.0' (45%)			(53.0-61.5 ft.) Compact, olive gray (5Y 4/1), medium SAND, little Sand, trace Fine Gravel, trace Fine Sand and Silt, NR, wet, (SW), (ALLUVIUM) (398.4) 61.5	SP	16	
62					(61.5-65.0 ft.) Compact, dark greenish gray (5GY 4/1), >95% fine to medium grained subrounded SAND, <5% Silt, NR, saturated, (SP), (ALLUVIUM), grades finer	SP	17	
63	10 20 27 45	1.2' 2.0' (60%)				HD	18	
64								
65		1.7' 2.0' (85%)			(65.0-92.0 ft.) Compact to very dense, dark greenish gray (5GY 4/1), 75% fine SAND, 20% medium Sand, 5% Silt, NR, saturated, (SP), (ALLUVIUM)	SP	19	
66								
67	7 20 25 28	0.9' 2.0' (45%)				SP	20	
68								
69	10 15 26 26	1.4' 2.0' (70%)				HD	21	
70								
71	8 10 14 22	1.2' 2.0' (60%)				SP	22	
72								
73	6 10 13 17	1.2' 2.0' (60%)				SP	23	
74								

DRILLING CONTR LAYNE-WESTERN
LOGGED BY J. MILLER
DATE 6/21/95 CHK'D BY W. HERST
JOB NO.: 943-2848
FILENAME: PZ113AD

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

LAIDLAW/OU2 RI-FS/MO
WEST LAKE LANDFILL
OPERABLE UNIT 2

NORTHING: 1069233.33
DATUM EASTING: 515759.85 ELEVATION 459.9

DRILLING METHOD:
0.0-40.0 ft.: 4.25 inch I.D. Hollow Stem Auger
40.0-108.3 ft.: 3.875 inch Mud Rotary (Tricone)

SAMPLING METHOD:
SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)
SPLIT SPOON: 3.0 inch O.D./.375 inch I.D. (HD)

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

BORING NO. PZ-113-AD

SHEET 5 OF 7

DRILLING

START	FINISH
TIME 11:03	TIME 15:50
DATE 4/26/95	DATE 4/27/95

DRILL RIG CME 75 - TRUCK MOUNT

SURFACE CONDITIONS Paved road

ANGLE VERTICAL BEARING NA

SAMPLE HAMMER 140

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
76	17 25 35 36	1.1'/2.0' (55%)			(65.0-92.0 Ft.) Compact to very dense, dark greenish gray (5GY 4/1), 75% fine SAND, 20% medium Sand, 5% Silt, NR, saturated, (SP), (ALLUVIUM)	HD (24)	
77	17 25 34 39	1.8'/2.0' (90%)				HD (25)	
78							
79	22 28 28 31	1.3'/2.0' (65%)				SP (26)	
80							
81	15 24 24 36	1.2'/2.0' (60%)				SP (27)	
82							
83	20 48 48 60	1.5'/2.0' (75%)				HD (28)	
84							
85	12 24 34 38	1.0'/2.0' (50%)				SP (29)	
86							
87	18 22 32 50+	1.2'/2.0' (60%)				SP (30)	
88							
89	48 50	0.6'/0.8' (75%)				HD (31)	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER CHK'D BY W. HERST

DATE 6/21/95

JOB NO.: 943-2848

FILENAME: PZ113AD

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2
DRILLING METHOD:	0.0-40.0 ft.: 4.25 inch I.D. Hollow Stem Auger 40.0-108.3 ft.: 3.875 inch Mud Rotary (Tricone)
SAMPLING METHOD:	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SPLIT SPOON: 3.0 inch O.D./.375 inch I.D. (HD)
BORING NO.	PZ-113-AD
SHEET	6 OF 7
DRILLING START / FINISH	TIME 11:03 / 15:50 DATE 4/26/95 / 4/27/95
WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM	NORTHING: 1069233.33 EASTING: 515759.85
ELEVATION	459.9
DRILL RIG	CME 75 - TRUCK MOUNT
SURFACE CONDITIONS	Paved road
ANGLE	VERTICAL
BEARING	NA
SAMPLE HAMMER	140

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
91					(65.0-92.0 ft.) Compact to very dense, dark greenish gray (5GY 4/1), 75% fine SAND, 20% medium Sand, 5% Silt, NR, saturated, (SP), (ALLUVIUM)		
(367.9) 92.0							
92					(92.0-108.3 ft.) Dense, dark greenish gray (5GY 4/1), fine to coarse subrounded to well rounded SAND, NR, saturated, (SW), (ALLUVIUM)		
93							
94	10 15 20 22	1.0' 1.0' (100%)				SP (32)	
95							
96							
97							
98							
99	9 13 17 23	1.1' 2.0' (55%)				SP (33)	
100							
101							
102							
103							
104	10 11 14 12	0.6' 2.0' (30%)				SP (34)	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER

DATE 6/21/95 CHK'D BY W. HERST

JOB NO.: 943-2848

FILENAME: PZ113AD

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

LAIDLAW/OU2 RI-FS/MO
WEST LAKE LANDFILL
OPERABLE UNIT 2

NORTHING: 1069233.33
DATUM EASTING: 515759.85 ELEVATION 459.9

DRILLING METHOD:					BORING NO. PZ-113-AD
0.0-40.0 ft.: 4.25 inch I.D. Hollow Stem Auger					SHEET 7 OF 7
40.0-108.3 ft.: 3.875 inch Mud Rotary (Tricone)					
SAMPLING METHOD:					DRILLING
SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)					START / FINISH
SPLIT SPOON: 3.0 inch O.D./.375 inch I.D. (HD)					
WATER LEVEL					TIME 11:03 / TIME 15:50
TIME					
DATE					DATE 4/26/95 / DATE 4/27/95
CASING DEPTH					

DRILL RIG CME 75 - TRUCK MOUNT
SURFACE CONDITIONS Paved road
ANGLE VERTICAL BEARING NA
SAMPLE HAMMER 140

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE		REMARKS
106					(92.0-108.3 ft.) Dense, dark greenish gray (5GY 4/1), fine to coarse subrounded to well rounded SAND, NR, saturated, (SW), (ALLUVIUM)	SP		
107						(34)		
108					(351.6) 108.3			
					End of Soil Borehole Log at 108.3 ft.			
109					See PZ-113-AD Record of Drillhole for rock descriptions			
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								

DRILLING CONTR LAYNE-WESTERN

LOGGED BY J. MILLER CHK'D BY W. HERST

DATE 6/21/95

JOB NO.: 943-2848

FILENAME: PZ113AD

RECORD OF DRILLHOLE PZ-113-SS

Sheet 1 of 3

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2648
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 5/9/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1069242.39
AZIMUTH: 0

COLLAR ELEV: 460.0
E: 515776.57
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: GRAPHIC LOG	WEATHERING INDEX (SW FR, MW, HW, CW)	STRENGTH INDEX (R6, R5, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
112	0.0-114.6 ft. See Soil Borehole Log PZ-113-AD														0.0-114.5 ft. Borehole advanced using 9 7/8 in. diameter mud rotary bit then 6 in. casing sealed in borehole with neat cement
114	345.40		345.40												
116	114.6-120.2 ft. 114.60 Fresh, thickly to medium bedded, light olive gray (5Y 6/1), very fine grained, medium strong LIMESTONE, (ST. LOUIS FORMATION) Trace fossils, trace silicious zones		114.60						J,PL,SM J,PL,R J,PL,R J,C,R,CL J,C,R,CL						5/9/95 @ 9:30 Began coring
118	117.1-118.5 ft. Increase grain size and clay fraction, medium light gray (N6)			1	71%				J,PL,R J,PL,R,CL						
120	118.5-120.0 ft. Medium light gray (N6) to light gray (N7)		340.00						J,C,VR (3) J,C,VR (2) J,C,VR J,ST,R (2) Core Loss						5/9/95 @ 9:50 End of Run 1
122	120.2-142.3 ft. Fresh, medium bedded, light olive gray (5Y 6/1), fine grained, strong, ARGILLACEOUS LIMESTONE, (ST. LOUIS FORMATION) Scattered 1 in. thick chert nodules		120.00						J,PL,R (4) J,PL,R (4) J,PL,SM J,PL,R (3) J,PL,R,CL						
124				2	100 %				J,PL,SM (5) J,PL,SM						
126									J,PL,SM J,PL,R						
128															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: D. ALLOWAY
CHECKED: B. TILTON
DATE: 6/15/95

Golder Associates

RECORD OF DRILLHOLE PZ-113-SS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 5/9/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1069242.39
AZIMUTH: 0

COLLAR ELEV: 460.0
E: 515776.57
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
128	120.2-142.3 ft. Fresh, medium bedded, light olive gray (5Y 6/1), fine grained, strong, ARGILLACEOUS LIMESTONE, (ST. LOUIS FORMATION) Scattered 1 in. thick chert nodules		330.60 / 129.40	2	100 %				J,PL,R						5/9/95 @ 11:00 End of Run 2
130									B,PL,SM (4)						
									B,PL,SM						
132				3	100 %										
134	134.2-134.8 ft. Coarse grained		325.60 / 134.40												5/9/95 @ 11:50 End of Run 3
	134.8-135.4 ft. Occasional stylolites present, fine to medium grained														
136									J,C,SM						
									J,I,R						
138	137.8-139.1 ft. Silty Claystone interbedded with Limestone								J,PL,R						
				4	100 %				B,I,R,CL						
									B,PL,SM (3)						
140															
	141.4-142.3 ft. Chert zone								J,PL,SM						
142			317.70 / 142.30												142.3 ft. Inferred top of SALEM FORMATION encountered
	142.3-159.4 ft. Fresh, thickly bedded, light olive gray (5Y 5/2) to pale yellowish brown (10YR 6/2), very fine grained, medium strong, DOLOMITIC LIMESTONE, (SALEM FORMATION) Scattered 1/2 in. -1 in. chert nodules, vuggy														
144															5/9/95 @ 12:40 End of Run 4

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: D. ALLOWAY
CHECKED: B. TILTON
DATE: 6/15/95

Golder Associates

RECORD OF DRILLHOLE PZ-113-SS

Sheet 3 of 3

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 5/9/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1069242.39
AZIMUTH: 0

COLLAR ELEV: 460.0
E: 515776.57
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, Cl.-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
144	142.3-159.4 ft. Fresh, thickly bedded, light olive gray (5Y 5/2) to pale yellowish brown (10YR 6/2), very fine grained, medium strong, DOLOMITIC LIMESTONE, (SALEM FORMATION) Scattered 1/2 in. - 1 in. chert nodules, vuggy		315.60 / 144.40	4	100%										5/9/95 @ 12:40 End of Run 4
148															
148				5	99%										
150	149.7-150.2 ft. Increased percentage of Dolomite 150.2-150.7 ft. Chert zone														
152															
154	152.9-155.5 ft. Fresh, thickly bedded, medium dark gray (N4), vf-f grained, medium strong, LIMESTONE, (SALEM FORMATION)		305.60 / 154.40												5/9/95 @ 14:30 End of Run 5
			304.50												
	155.5-155.8 ft. Fresh, thinly bedded, medium dark gray (N4), very weak, CLAYSTONE, (SALEM FORMATION)		155.50 / 304.20 / 155.80												
158	155.8-159.4 ft. Fresh, medium bedded, pale yellowish brown (10YR 6/2), fine grained, strong, DOLOMITIC LIMESTONE with abundant chert nodules 157.0-159.4 ft. Scattered chert nodules			6	100%				B,PL,SM (2) J,PL,R						
			300.60												5/9/95 @ 15:40 Ended coring
	End of Record of Drillhole at 159.4 ft.		159.40												
160															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: D. ALLOWAY
CHECKED: B. TILTON
DATE: 6/15/95

Golder Associates

SOIL BOREHOLE LOG

LAIDLAW WASTE SYSTEMS INC.

SITE NAME AND LOCATION	LAIDLAW/OU2 RI-FS/MD WEST LAKE LANDFILL OPERABLE UNIT 2
DRILLING METHOD:	6.25 inch I.D. Hollow Stem Auger
SAMPLING METHOD:	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)
BORING NO.	PZ-114-AS
SHEET	1 OF 2
DRILLING START / FINISH	TIME 11:50 / 12:40 DATE 4/20/95 / 4/20/95
WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM	NORTHING: 1069418.88 EASTING: 516768.25
ELEVATION	449.8
DRILL RIG	CME 75
SURFACE CONDITIONS	Grassy
ANGLE	-90°
BEARING	NA
SAMPLE HAMMER	140 lbs.

DEPTH IN FEET (ELEVATION)	BLOW/6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
1	3 4 8 9	1.7'/2.0' (85%)			(0.0-2.0 ft.) Compact, dark yellowish brown (10YR 4/2), f-m SAND, some clayey Silt, NR, moist, (SM), (FILL)	SP (1)	
					(447.8) 2.0		
2 3	8 14 10 5	1.3'/2.0' (65%)			(2.0-4.0 ft.) Concrete, (FILL)	SP (2)	
					(445.8) 4.0		
4 5	2 7 7 5	1.3'/2.0' (65%)			(4.0-6.0 ft.) Loose, moderate gray (N5), moist, f-c subrounded SAND, some clayey Silt, (SM), (FILL), lower 0.3 ft. is concrete	SP (3)	
					(443.8) 6.0		
6 7	1 2 1 3	0.7'/2.0' (35%)			(6.0-8.0 ft.) Soft to firm, medium dark gray (N4) to olive gray (5Y 4/1), clayey SILT, some fine and medium Sand, trace subrounded coarse Sand, (ML), (FILL)	SP (4)	
					(441.8) 8.0		
8 9	2 2 3 3	0.7'/2.0' (35%)			(8.0-12.0 ft.) Soft, greenish black (5GY 2/1) to medium gray (N5), silty CLAY, little fine Sand, NR, moist, (CL), (FILL)	SP (5)	
10 11	1 1 2 2	2.0'/2.0' (100%)				SP (6)	
12 13	1 3 4 6	1.8'/2.0' (90%)			(12.0-15.5 ft.) Firm, medium dark gray (N4), SILTY CLAY, little fine Sand, NR, moist, (CL), (ALLUVIUM) below 14.0 ft., grades sandier with depth	SP (7)	
14	1 3 4 2	1.9'/2.0' (95%)				SP (8)	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY D. ALLOWAY CHK'D BY W. HINST

DATE 4/20/95

JOB NO.: 943-2848

FILENAME: PZ114AS

SOIL BOREHOLE LOG

LAIDLAW WASTE SYSTEMS INC.

SITE NAME AND LOCATION	DRILLING METHOD: 6.25 inch I.D. Hollow Stem Auger	BORING NO. PZ-114-AS
LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2		SHEET 2 OF 2
	SAMPLING METHOD:	
	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP)	DRILLING START TIME 11:50 / FINISH TIME 12:40
	SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)	
	WATER LEVEL / TIME / DATE / CASING DEPTH	DATE 4/20/95 / DATE 4/20/95
NORTHING: 1069418.88 DATUM EASTING: 516768.25 ELEVATION 449.8		
DRILL RIG CME 75	SURFACE CONDITIONS Grassy	
ANGLE -90° BEARING NA		
SAMPLE HAMMER 140 lbs.		

DEPTH IN FEET (ELEVATION)	BLOW/6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE	REMARKS
16	0 1 3 4	2.0' / 2.0' (100%)			(12.0-15.5 ft.) Firm, medium dark gray (N4), SILTY CLAY, little Fine Sand, NR, moist, (CL), (ALLUVIUM)	SP 8	
17					(15.5-17.4 ft.) Firm, medium gray (N5), SILTY CLAY, some F-m Sand, NR, moist to wet, (CL), (ALLUVIUM), grades sandier	SP 9	
					(432.4) 17.4		
18	3 3 3 3	1.2' / 2.0' (60%)			(17.4-18.5 ft.) Loose, medium gray (N5), F-m SAND, some silty Clay, NR, wet, (SP), (ALLUVIUM), grades sandier and coarser		
19					(18.5-30.0 ft.) Loose to compact, medium gray (N5), F-m SAND, trace Fines, thin layers of mica (<1/4" thick), NR, moist, (SP), (ALLUVIUM)	SP 10	
20	2 3 3 3	1.8' / 2.0' (90%)					
21						SP 11	
22	3 3 3 3	1.3' / 2.0' (65%)					
23						SP 12	
24	4 7 8 13	1.5' / 2.0' (75%)			@ 23.7 ft., color changes to moderate brown (5YR 4/4) and moderate yellowish brown (10YR 5/2)		
25						SP 13	
26	9 7 4 3	0.3' / 2.0' (15%)					
27						SP 14	
28	2 6 6 7	1.6' / 2.0' (80%)					
29					@ 29.1-29.6 ft., organics present, bits of wood and grass	SP 15	

DRILLING CONTR LAYNE-WESTERN

LOGGED BY D. ALLOWAY

DATE 4/20/95 CHK'D BY W. HERST

JOB NO.: 943-2848

FILENAME: PZ114AS

LAIDLAW WASTE SYSTEMS INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	LAIDLAW/OU2 RI-FS/MO WEST LAKE LANDFILL OPERABLE UNIT 2
DRILLING METHOD:	4.25 inch I.D. Hollow Stem Auger 4.0 inch Tricone Bit with Bentonite
SAMPLING METHOD:	SPLIT SPOON: 2.0 inch O.D./1.5 inch I.D. (SP) SHELBY TUBE: 3.0 inch O.D./2 13/16 inch I.D. (SH)
BORING NO.	PZ-115-SS
SHEET	1 OF 1
DRILLING	START / FINISH
WATER LEVEL	
TIME	START: 8:30 / FINISH: 9:55
DATE	START: 5/5/95 / FINISH: 5/5/95
CASING DEPTH	
DATUM	NORTHING: 1069408.54 EASTING: 516755.35
ELEVATION	450.6
DRILL RIG	CME 75 - TRUCK MOUNT
SURFACE CONDITIONS	
ANGLE	-90°
BEARING	NA
SAMPLE HAMMER	

DEPTH IN FEET (ELEVATION)	BLOW/ 6 IN. ON SAMPLER	RECOVERY	SYMBOL	SAMPLER SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER TYPE		REMARKS
31	6 7 7 6	1.0' 2.0' (50%)			(0.0-30.0 ft.) No samples collected, see Soil Borehole Log PZ-114-AS for descriptions (30.0-33.5 ft.) Compact, olive gray (5Y 4/1), SILTY f-m SAND, wet, NR, (SM), (ALLUVIUM)	SP	1	0.0-30.0 ft. Drilling conducted with 4.25-inch augers Below 30.0 ft. Drilling conducted with mud rotary techniques to control heaving sands.
32	8 8 50/3"	1.0' 1.5' (67%)				SP	2	
33					(417.1) 33.5 End of Soil Borehole Log at 33.5 ft. See PZ-115-SS Record of Drillhole for rock descriptions			
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								

DRILLING CONTR LAYNE-WESTERN

LOGGED BY B. TILTON

DATE 6/21/95 CHK'D BY W. HERST

JOB NO.: 943-2848

FILENAME: PZ115SS

RECORD OF DRILLHOLE PZ-115-SS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 5/10/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1069408.54
AZIMUTH: 0

COLLAR ELEV: 450.6
E: 518755.35
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	DISCONTINUITY DATA: GRAPHIC LOG	WEATHERING INDEX (SW FR, MW, HW, CW)	STRENGTH INDEX (R6, R5, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
32	0.0-33.5 ft. See Soil Borehole Log PZ-115-SS 33.5-38.0 ft. No samples collected														3/9/95 9 7/8 in. mud rotary bit used to drill into bedrock then 6 in. steel casing grouted into borehole with neat cement
34															
36															
38			412.60												
	38.0-47.3 ft. 38.00 Fresh, thickly bedded, light olive gray (5Y 6/1), very fine grained, medium strong, LIMESTONE, (ST. LOUIS FORMATION)		38.00	1	100%										5/10/95 @ 8:30 Began drilling
			410.90												
40	40.0-41.8 ft. Scattered silica zones and veins		39.70						J,PL,VR (2) J,PL,VR (3) J,IR,VR (4)						5/10/95 @ 8:50 End of Run 1
42	41.2-47.7 ft. Microcrystalline, pale yellowish brown (10YR 6/2), slightly weathered 41.8-42.8 and 43.6-47.3 ft. Layers of green clay and clay filling around inplace pieces of rock														
				2	97%				J,PL,VR (2) J,IR,VR (3) J,IR,VR (7)						
44															
46									J,IR,VR (6) J,IR,VR (7)						
	47.7-49.0 ft. Slightly weathered, thickly bedded, pale yellowish brown (10YR 6/2), microcrystalline, strong, DOLOMITIC LIMESTONE, (ST. LOUIS FORMATION) Vuggy (1 mm. to 5 mm. in diameter), some vugs filled with calcite or quartz								J,I,VR (7)						
48															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: D. ALLOWAY
CHECKED: B. TILTON
DATE: 6/15/95

Golder Associates

RECORD OF DRILLHOLE PZ-115-SS

Sheet 2 of 4

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 5/10/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1069408.54
AZIMUTH: 0

COLLAR ELEV: 450.6
E: 516755.35
INCLINATION: -90

ROCK TYPE
J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO	CORE RECOVERY	RQD (80, 60, 40, 20)	FRACTURES PER FOOT (2, 4, 6, 8, 10)	DISCONTINUITY DATA: DIP wrt CORE AXIS (0, 30, 60, 90)	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (SW, FR, MW, HW, CW)	STRENGTH INDEX (R5, R6, R4, R3, R2, R1)	POINT LOAD INDEX (psi) (R1 30, R2 150, R3 300, R4 600, R5 1500, R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
48	48.8-48.9 ft. Claystone layers 49.0-50.2 ft. Slightly weathered, thickly bedded, pale yellowish brown (10YR 6/2), microcrystalline, medium strong, LIMESTONE, (ST. LOUIS FORMATION) Dolomite and clay zones, vuggy			2	97%										5/10/95 @ 10:10 End of Run 2
			400.90 49.70												
50	50.2-58.5 ft. Fresh, thickly bedded, pale yellowish brown (10YR 6/2), microcrystalline, medium strong, LIMESTONE, (ST. LOUIS FORMATION)								J,PL,VR						
52	50.2-51.4 ft. Thin clay laminations within rock visible but no preferential breaks or weak zones are associated 53.0-55.1 ft. Thin clay laminations, healed and unhealed bedding partings								B,PL,SM B,PL,SM (3)						
54									J,PL,R,CL J,PL,SM						
				3	100%										
	55.1-55.4 ft. Highly weathered, extremely weak Claystone zone 55.4-58.5 ft. Thin clay laminations and healed bedding partings, trace stylolites								J,PL,SM						
56									J,PL,SM						
58									J,PL,SM						
	58.5-64.6 ft. Fresh, thickly bedded, pale yellowish brown (10YR 6/2), very fine, medium strong, ARGILLACEOUS LIMESTONE, (ST. LOUIS FORMATION) Vuggy		390.90 59.70												5/10/95 @ 11:45 End of Run 3
60															
				4	100%										
62															
64															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: D. ALLOWAY
CHECKED: B. TILTON
DATE: 6/15/95

Golder Associates

RECORD OF DRILLHOLE PZ-115-SS

Sheet 3 of 4

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 5/10/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1069408.54
AZIMUTH: 0

COLLAR ELEV: 450.6
E: 516755.35
INCLINATION: -80

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slickensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD	FRACTURES PER FOOT	DISCONTINUITY DATA: DIP wrt CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX	STRENGTH INDEX	POINT LOAD INDEX (psi)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
64	64.6-65.8 ft. Fresh, medium bedded, pale yellowish brown (10YR 6/2), fine grained, strong, LIMESTONE, (ST. LOUIS FORMATION) Scattered stylolites and silica replacement of stylolites								J,IR,VR J,C,SM						
66	65.8-66.7 ft. Fresh, medium bedded, pale yellowish brown (10YR 6/2), fine grained, medium strong, ARGILLACEOUS LIMESTONE, (ST. LOUIS FORMATION) Vuggy			4	100 %				J,PL,VR J,PL,VR J,PL,SM						
68	66.7-69.7 ft. Slightly weathered, medium bedded, pale yellowish brown (10YR 6/2), f-vf grained, medium strong, LIMESTONE, (ST. LOUIS FORMATION) Zones of Claystone interbedded (1/2 in. - 1 1/2 in.)								B,PL,R						5/10/95 @ 12:30 End of Run 4
			380.90 69.70						B,PL,R,CL J,PL,VR						
70	69.7-84.7 ft. Fresh, medium bedded, pale yellowish brown (10YR 6/2), microcrystalline to fine grained, strong, LIMESTONE, (ST. LOUIS FORMATION) 69.7-75.7 ft. Fine to medium grained, trace fossils								J,IR,R						
72	72.0-72.2 ft. Highly weathered, weak, Claystone seam 72.2-73.3 ft. Scattered chert								B,PL,SM (2) B,PL,SM						
74				5	100 %				J,C,SM (2) J,PL,SM						
76	76.2 ft. Void filled with calcite crystals 77.2-78.0 ft. Abundant stylolites								J,PL,R J,PL,R J,I,R J,I,R						
78									J,PL,SM						
	79.1-84.7 ft. Dolomite content increases, slightly weathered 79.4-81.0 ft. Abundant stylolites		370.90 79.70	6	100 %				J,I,R (2) J,I,R						5/10/95 @ 13:50 End of Run 5
80															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: D. ALLOWAY
CHECKED: B. TILTON
DATE: 6/15/95

Golder Associates

RECORD OF DRILLHOLE PZ-115-SS

PROJECT: LAIDLAW/RI-FS
PROJECT NO: 943-2848
LOCATION: BRIDGETON, MO

BORING METHOD: NX Core & water
DRILLING DATE: 5/10/95
DRILL RIG: CME 75

DATUM: MSL
COORDINATES N: 1069408.54
AZIMUTH: 0

COLLAR ELEV: 450.6
E: 516755.35
INCLINATION: -90

J-Joint, F-Fault, S-Shear, B-Bedding, F-Foliation
PL-Planar, C-Curved, U-Undulating, ST-Stepped, I-Irregular
P-Polished, K-Slikensided, SM-Smooth, R-Rough, VR-V. Rough
Fe-FeOxide, CL-Clay Infill, CH-Chlorite, H-Healed, GRF-Gravel Filled

DEPTH SCALE (FEET)	ROCK TYPE: DESCRIPTION	GRAPHIC LOG	ELEV / DEPTH (FT)	RUN NO.	CORE RECOVERY	RQD (80 60 40 20)	FRACTURES PER FOOT (2 4 6 8 10)	DISCONTINUITY DATA: DIP wrt CORE AXIS (0 30 60 90)	TYPE AND SURFACE DESCRIPTION	GRAPHIC LOG	WEATHERING INDEX (SW FR MW HW CW)	STRENGTH INDEX (R6 R5 R4 R3 R2 R1)	POINT LOAD INDEX (psi) (R1 30 R2 150 R3 300 R4 600 R5 1500 R6)	TEST ORIENTATION	NOTES WATER LEVELS INSTRUMENTATION
80	69.7-84.7 ft. Fresh, medium bedded, pale yellowish brown (10YR 6/2), microcrystalline to fine grained, strong, LIMESTONE, (ST. LOUIS FORMATION)								J,I,R						
									J,I,R (2)						
82				6	100 %				J,I,R						
									J,I,R (2)						
84	84.2-84.7 ft. Abundant stylolites								B,PL,R						5/10/95 @ 15:00 End of coring
	365.90		365.90												
	End of Record of Drillhole at 84.7 ft. 84.70		84.70												
86															
88															
90															
92															
94															
96															

DEPTH SCALE: 1:2
DRILLING CONTRACTOR: LAYNE-WESTERN
DRILLER: D. MAHURIN

LOGGED: D. ALLOWAY
CHECKED: B. TILTON
DATE: 6/15/95

Golder Associates

APPENDIX C:

Downhole Gamma and Core Scan Logs

C-1: Phase 1C Downhole Gamma and Core Scan Logs

C-2: Phase 1D Downhole Gamma and Core Scan Logs

C-3: McLaren Hart Area 1 RI Boring Downhole Logs

Appendix C-1:

Phase 1C Downhole Gamma and Core Scan Logs

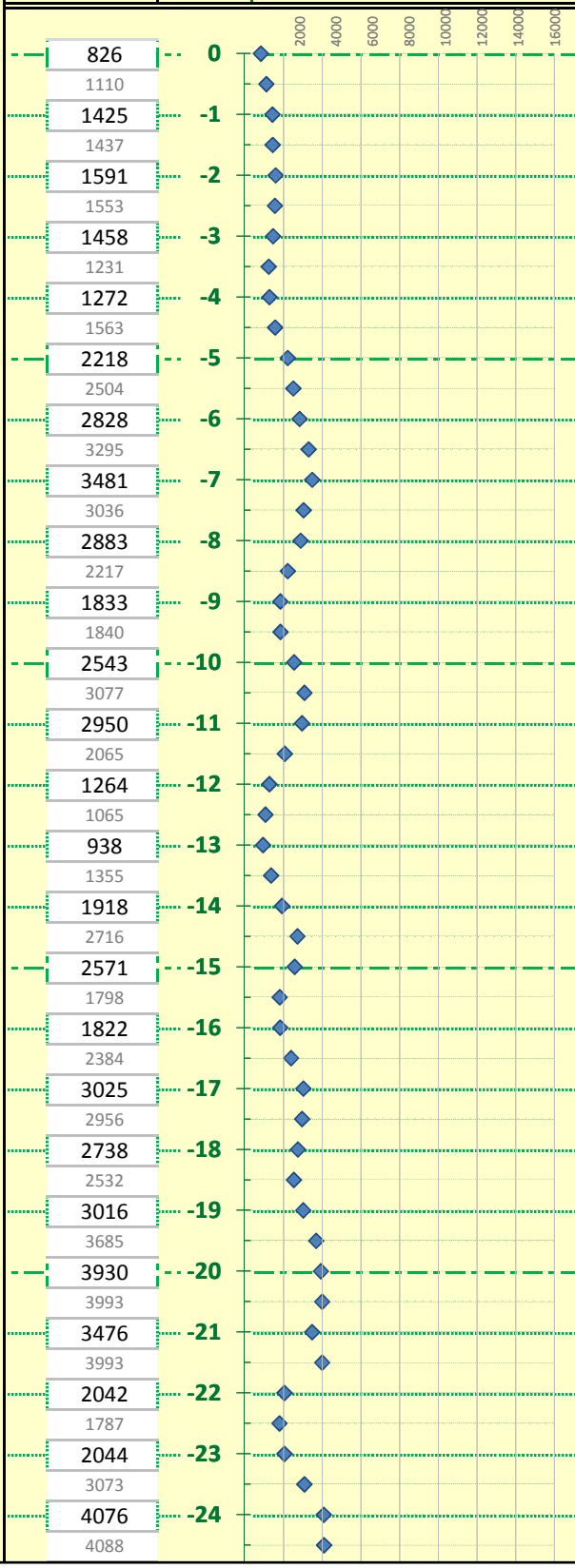
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**1-2**
Date Collected:	2/3/2014
GPS Location 1:	4294232.52
GPS Location 2:	722023.44

Area Bkg for Core Scan (2221/44-20): 10296 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
826	0			
1110		11034	X	
1425	-1			
1437		11311	X	
1591	-2			
1553		11838	X	
1458	-3			
1231		11214	X	
1272	-4			
1563				
2218	-5			
2504		10674	X	
2828	-6			
3295		11333	X	
3481	-7			
3036				
2883	-8			
2217		11470	X	
1833	-9			
1840		11067	X	
2543	-10			
3077				
2950	-11			
2065				
1264	-12			
1065				
938	-13			
1355				
1918	-14			
2716				
2571	-15			
1798				
1822	-16			
2384				
3025	-17			
2956				
2738	-18			
2532		11359	X	
3016	-19			
3685		10946	X	
3930	-20			
3993		11248	X	
3476	-21			
3993		10644	X	
2042	-22			
1787		10817	X	
2044	-23			
3073		11298	X	
4076	-24			
4088		10864	X	X

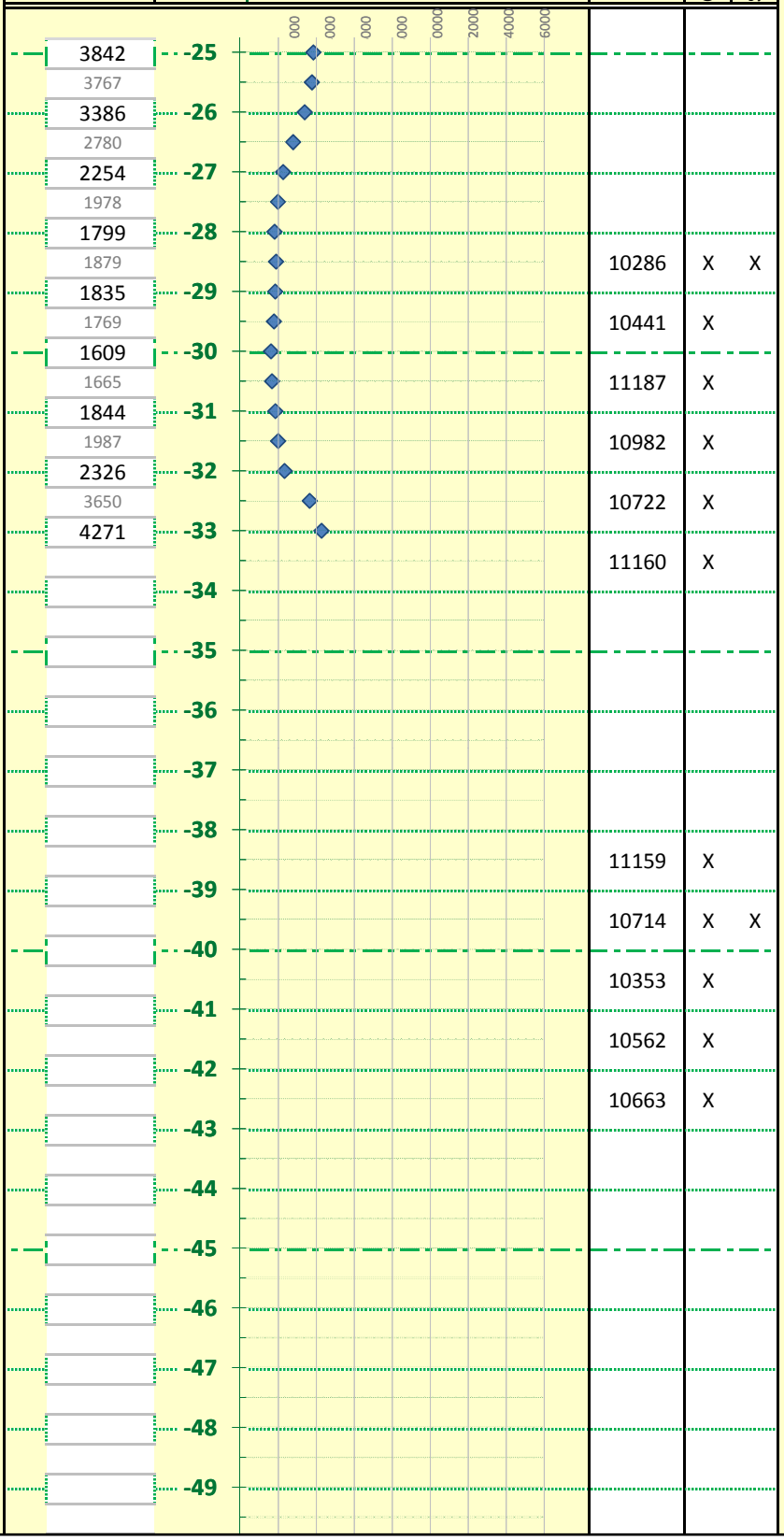
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**1-2**
Date Collected:	2/3/2014
GPS Location 1:	4294232.52
GPS Location 2:	722023.44

Background Reading using 44-20: 10296 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
3842	-25			
3767				
3386	-26			
2780				
2254	-27			
1978				
1799	-28			
1879		10286	X	X
1835	-29			
1769		10441	X	
1609	-30			
1665		11187	X	
1844	-31			
1987		10982	X	
2326	-32			
3650		10722	X	
4271	-33			
		11160	X	
	-34			
	-35			
	-36			
	-37			
	-38			
		11159	X	
	-39			
		10714	X	X
	-40			
		10353	X	
	-41			
		10562	X	
	-42			
		10663	X	
	-43			
	-44			
	-45			
	-46			
	-47			
	-48			
	-49			

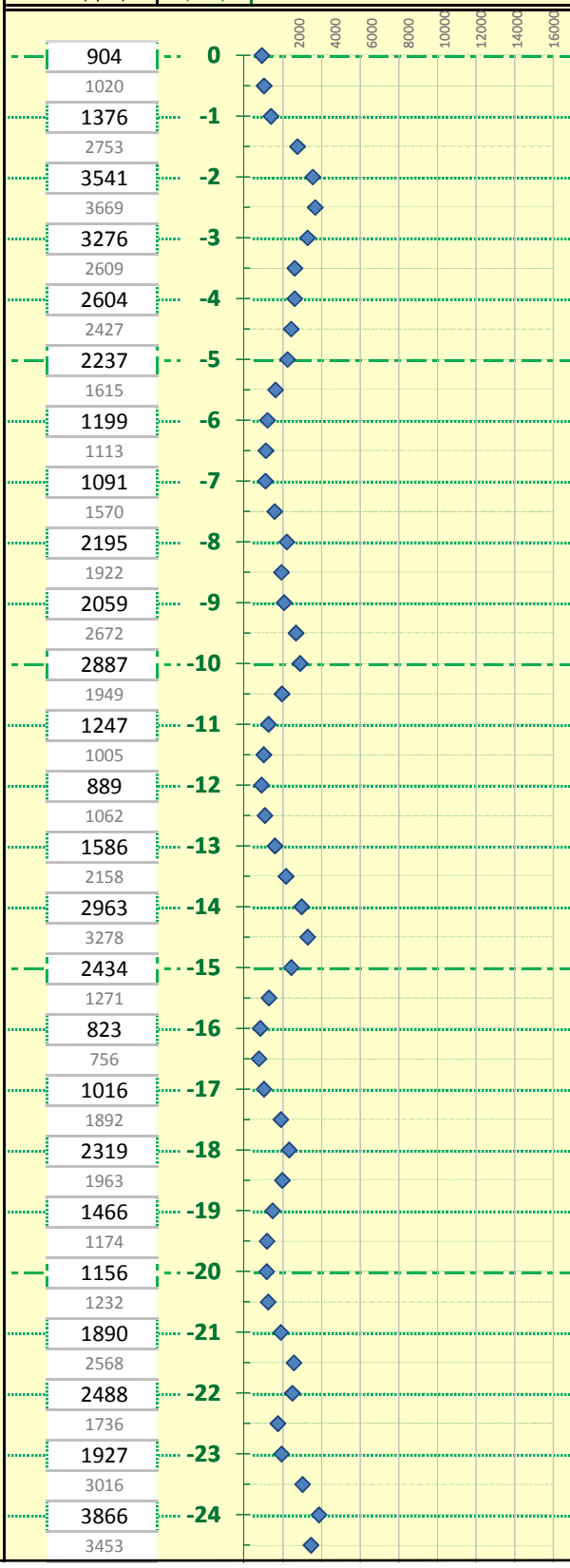
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**2-2**
Date Collected:	2/1/2014
GPS Location 1:	4294262.47
GPS Location 2:	722040.22

Area Bkg for Core Scan (2221/44-20): 11809 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 1 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
904	0			
1020		12949	X	
1376	-1			
2753		13815	X	
3541	-2			
3669		13759	X	
3276	-3			
2609		13473	X	
2604	-4			
2427		13084	X	
2237	-5			
1615		13780	X	X
1199	-6			
1113		13328	X	
1091	-7			
1570				
2195	-8			
1922				
2059	-9			
2672		13234	X	
2887	-10			
1949		14143	X	
1247	-11			
1005		12515	X	
889	-12			
1062		12791	X	
1586	-13			
2158		12735	X	
2963	-14			
3278		12457	X	
2434	-15			
1271		12936	X	
823	-16			
756		11724	X	
1016	-17			
1892				
2319	-18			
1963				
1466	-19			
1174		12737	X	
1156	-20			
1232		12895	X	
1890	-21			
2568		14052	X	X
2488	-22			
1736		14862	X	
1927	-23			
3016				
3866	-24			
3453				

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**2-2**
Date Collected:	2/1/2014
GPS Location 1:	4294262.47
GPS Location 2:	722040.22

Background Reading using 44-20: 11809 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 1 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
2256	-25			
1529				
1393	-26			
1124				
961	-27			
984				
1633	-28			
2298				
2236	-29			
1643		13468	X	
1454	-30			
2099		14351	X	
4080	-31			
3912				
4354	-32			
3721				
4348	-33			
2608				
1681	-34			
1631		13392	X	
1434	-35			
1432		13330	X	
1237	-36			
997		13124	X	
1167	-37			
1447		12496	X	
1475	-38			
1137				
983	-39			
1143		12287	X	
1564	-40			
1916		12763	X	
2045	-41			
1479		12719	X	
1018	-42			
925		12685	X	
1006	-43			
1104		12703	X	
972	-44			
847		12910	X	
742	-45			
842		13477	X	
1430	-46			
1829		13542	X	
2301	-47			
2414				
2503	-48			
2502				
2419	-49			
2984		13730	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**2-2**
Date Collected:	2/1/2014
GPS Location 1:	4294262.47
GPS Location 2:	722040.22

Background Reading using 44-20:
11809 cpm

Dose Reading 1 m above Surface (M19):
(@ BH location) 1 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
3149	-50		13280	X	
3184					
3067	-51		13022	X	
	-52		13033	X	
	-53				
	-54				
	-55				
	-56				
	-57				
	-58				
	-59				
	-60				
	-61				
	-62				
	-63				
	-64				
	-65				
	-66				
	-67				
	-68				
	-69				
	-70				
	-71				
	-72				
	-73				
	-74				

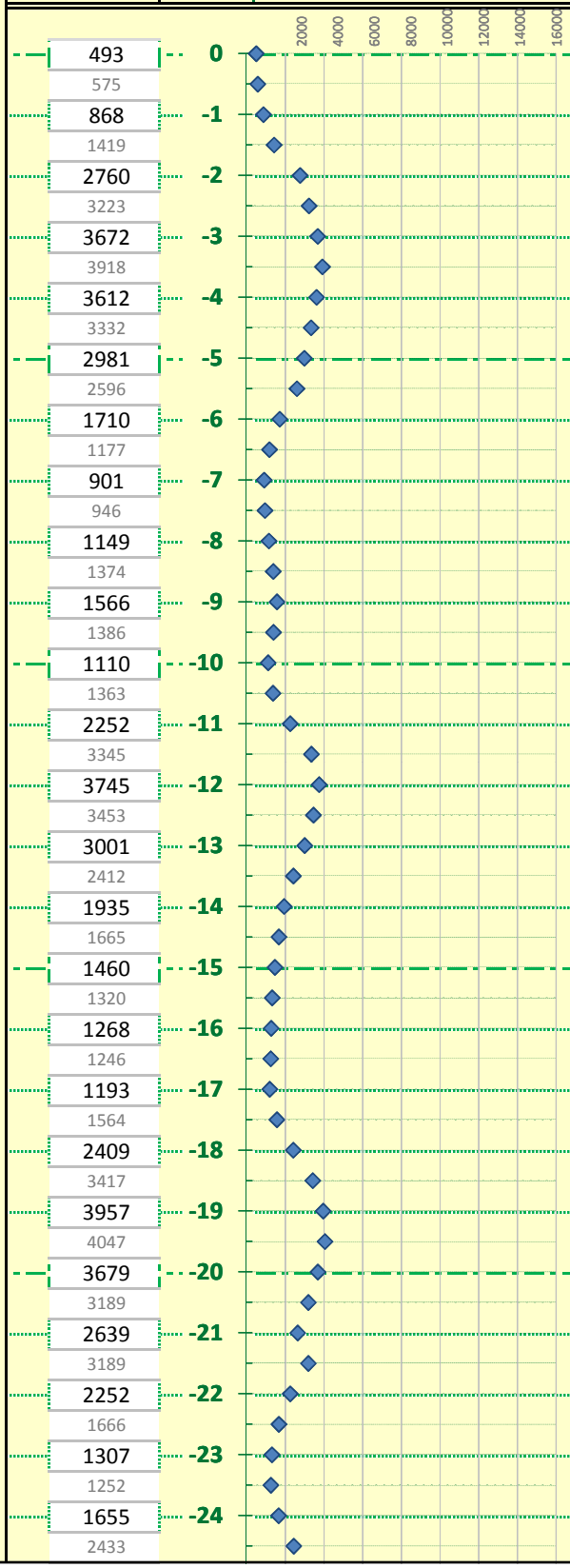
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**5-3**
Date Collected:	1/31/2014
GPS Location 1:	4294297.70
GPS Location 2:	722089.60

Area Bkg for Core Scan (2221/44-20): 10496 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 4 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
493	0			
575		10917	X	
868	-1			
1419		11658	X	
2760	-2			
3223				
3672	-3			
3918				
3612	-4			
3332				
2981	-5			
2596		11277	X	
1710	-6			
1177		10133	X	
901	-7			
946				
1149	-8			
1374		10429	X	
1566	-9			
1386				
1110	-10			
1363				
2252	-11			
3345				
3745	-12			
3453				
3001	-13			
2412				
1935	-14			
1665				
1460	-15			
1320				
1268	-16			
1246				
1193	-17			
1564				
2409	-18			
3417		10692	X	
3957	-19			
4047		10348	X	
3679	-20			
3189				
2639	-21			
3189				
2252	-22			
1666				
1307	-23			
1252		11874	X	
1655	-24			
2433		11072	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**5-3**
Date Collected:	1/31/2014
GPS Location 1:	4294297.70
GPS Location 2:	722089.60

Background Reading using 44-20: 10496 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 4 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
3095	-25				
3695			12827	X	
5231	-26				
7405			11137	X	
8518	-27				
18393					
42556	-28				
115476			368717	X	X
211706	-29				
336937			32787	X	X
326205	-30				
200985			19595	X	
68940	-31				
29699			13660	X	
13799	-32				
8628			14535	X	
5240	-33				
5003			28458	X	X
5586	-34				
4578			16664	X	
4285	-35				
5068			11433	X	
3226	-36				
2819			11215	X	
4148	-37				
3026					
2996	-38				
4097			11268	X	
3844	-39				
6097			10264	X	
3361	-40				
3473			11499	X	
4190	-41				
2937			10801	X	
3555	-42				
4162			10640	X	
4483	-43				
6290			11867	X	
5173	-44				
3722			12754	X	
3434	-45				
4370			12754	X	
5070	-46				
5872			11064	X	
4382	-47				
4980					
5198	-48				
4086			13680	X	
5571	-49				
10625			12338	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**5-3**
Date Collected:	1/31/2014
GPS Location 1:	4294297.70
GPS Location 2:	722089.60

Background Reading using 44-20: 10496 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 4 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
17126	-50		11465	X	
19954					
44163	-51		11249	X	
18175					
	-52				
	-53				
	-54				
	-55				
	-56				
	-57				
	-58				
	-59				
	-60				
	-61				
	-62				
	-63				
	-64				
	-65				
	-66				
	-67				
	-68				
	-69				
	-70				
	-71				
	-72				
	-73				
	-74				

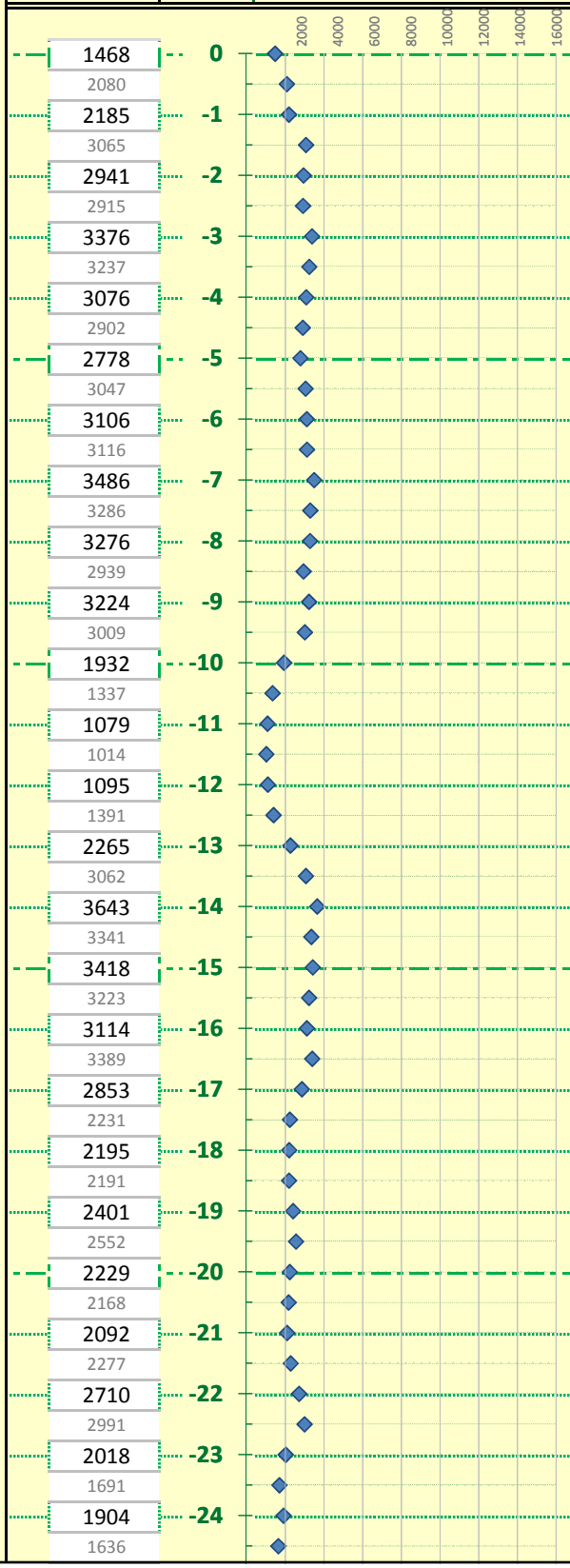
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**8-1**
Date Collected:	1/22/2014
GPS Location 1:	4294316.36
GPS Location 2:	722172.40

Area Bkg for Core Scan (2221/44-20): 10781 cpm

Dose Reading 1 m above Surface (M19): 5 µR/h (@ BH location)

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1468	0			
2080		11472	X	
2185	-1			
3065		11887	X	
2941	-2			
2915				
3376	-3			
3237				
3076	-4			
2902				
2778	-5			
3047		12147	X	
3106	-6			
3116				
3486	-7			
3286				
3276	-8			
2939		12291	X	
3224	-9			
3009		10883	X	
1932	-10			
1337		10086	X	
1079	-11			
1014				
1095	-12			
1391				
2265	-13			
3062		12368	X	
3643	-14			
3341		12269	X	
3418	-15			
3223		10861	X	
3114	-16			
3389				
2853	-17			
2231				
2195	-18			
2191		11140	X	
2401	-19			
2552				
2229	-20			
2168				
2092	-21			
2277				
2710	-22			
2991				
2018	-23			
1691		11823	X	
1904	-24			
1636				



Downhole Radiological Profile

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**8-1**
Date Collected:	1/22/2014
GPS Location 1:	4294316.36
GPS Location 2:	722172.40

Area Bkg for Core Scan (2221/44-20): 10781 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1104	-25				
1423					
1685	-26				
2292					
3618	-27				
4816					
4821	-28				
2222			12001	X	X
1576	-29				
1374					
1666	-30				
2154					
2315	-31				
2058					
1643	-32				
1688					
1985	-33				
1885					
1582	-34				
2165					
2741	-35				
3001					
2836	-36				
2319					
2499	-37				
2957					
2994	-38				
2594			10755	X	
2595	-39				
2990			10814	X	
2382	-40				
			12585	X	X
	-41				
			11785	X	
	-42				
			11208	X	
	-43				
			12761	X	
	-44				
			15541	X	
	-45				
			12887	X	
	-46				
	-47				
	-48				
			11848	X	
	-49				
			11961	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**8-1**
Date Collected:	1/22/2014
GPS Location 1:	4294316.36
GPS Location 2:	722172.40

Area Bkg for Core Scan (2221/44-20): 10781 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
	-50		12678	X	
	-51		12672	X	
	-52				
	-53				
	-54				
	-55				
	-56				
	-57				
	-58				
	-59				
	-60				
	-61				
	-62				
	-63				
	-64				
	-65				
	-66				
	-67				
	-68				
	-69				
	-70				
	-71				
	-72				
	-73				
	-74				

A&A BOREHOLE LOGGING REPORT (0' - 100')

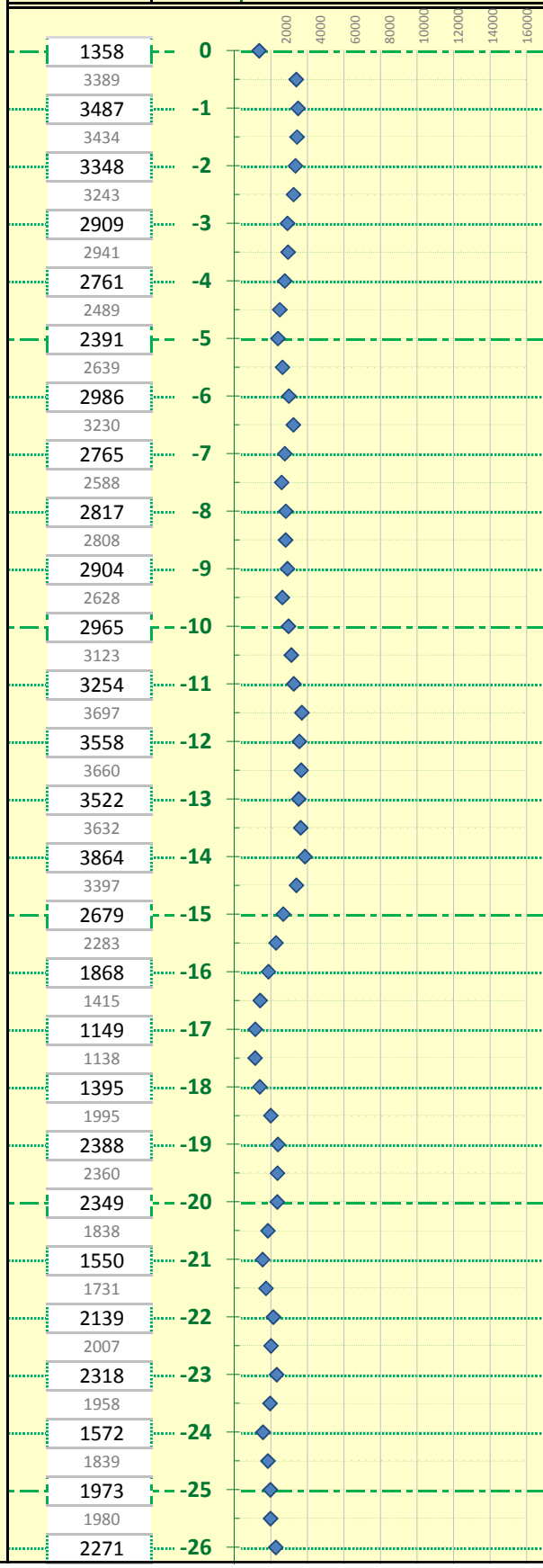
Sample Core ID:	**12-5**
Date Collected:	1/15/2014
GPS Location 1:	4294334.44
GPS Location 2:	722254.93

Area Bkg for Core Scan (2221/44-20): 11021 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 12 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1358	0			
3389		11526	X	
3487	-1			
3434		11563	X	
3348	-2			
3243		11470	X	X
2909	-3			
2941		10969	X	
2761	-4			
2489		11023	X	
2391	-5			
2639				
2986	-6			
3230				
2765	-7			
2588				
2817	-8			
2808				
2904	-9			
2628		12123	X	
2965	-10			
3123		12718	X	
3254	-11			
3697		12882	X	
3558	-12			
3660		13051	X	X
3522	-13			
3632		12537	X	
3864	-14			
3397				
2679	-15			
2283				
1868	-16			
1415				
1149	-17			
1138				
1395	-18			
1995				
2388	-19			
2360		11610	X	
2349	-20			
1838		11646	X	
1550	-21			
1731		10627	X	
2139	-22			
2007				
2318	-23			
1958				
1572	-24			
1839				
1973	-25			
1980				
2271	-26			



Area Bkg for Core Scan (2221/44-20): 11021

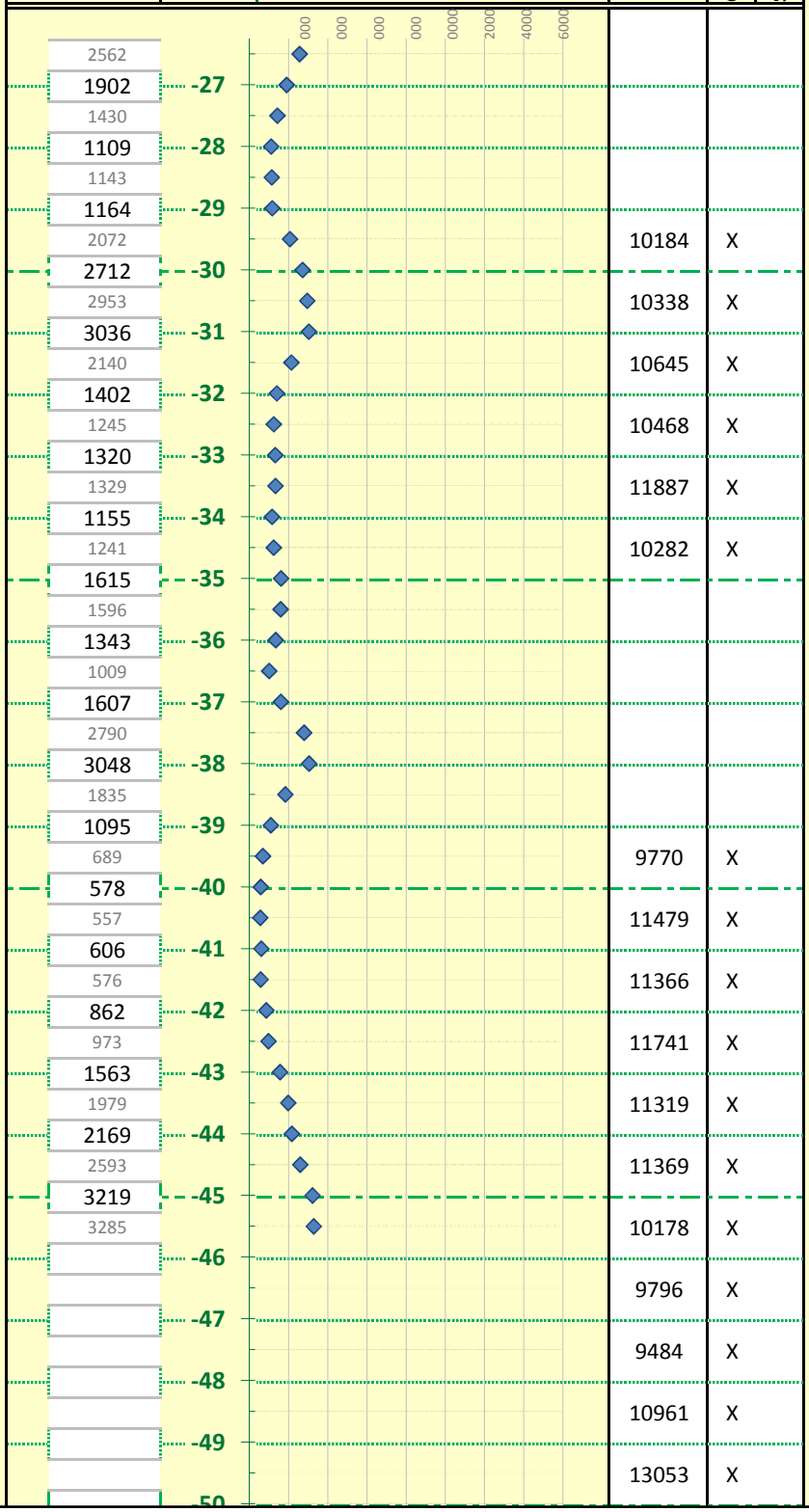
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**12-5**
Date Collected:	1/15/2014
GPS Location 1:	4294334.44
GPS Location 2:	722254.93

11021 cpm

Dose Reading 1 m above Surface (M19):
(@ BH location) 12 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
2562				
1902	-27			
1430				
1109	-28			
1143				
1164	-29			
2072		10184	X	
2712	-30			
2953		10338	X	
3036	-31			
2140		10645	X	
1402	-32			
1245		10468	X	
1320	-33			
1329		11887	X	
1155	-34			
1241		10282	X	
1615	-35			
1596				
1343	-36			
1009				
1607	-37			
2790				
3048	-38			
1835				
1095	-39			
689		9770	X	
578	-40			
557		11479	X	
606	-41			
576		11366	X	
862	-42			
973		11741	X	
1563	-43			
1979		11319	X	
2169	-44			
2593		11369	X	
3219	-45			
3285		10178	X	
	-46			
		9796	X	
	-47			
		9484	X	
	-48			
		10961	X	
	-49			
		13053	X	
	-50			

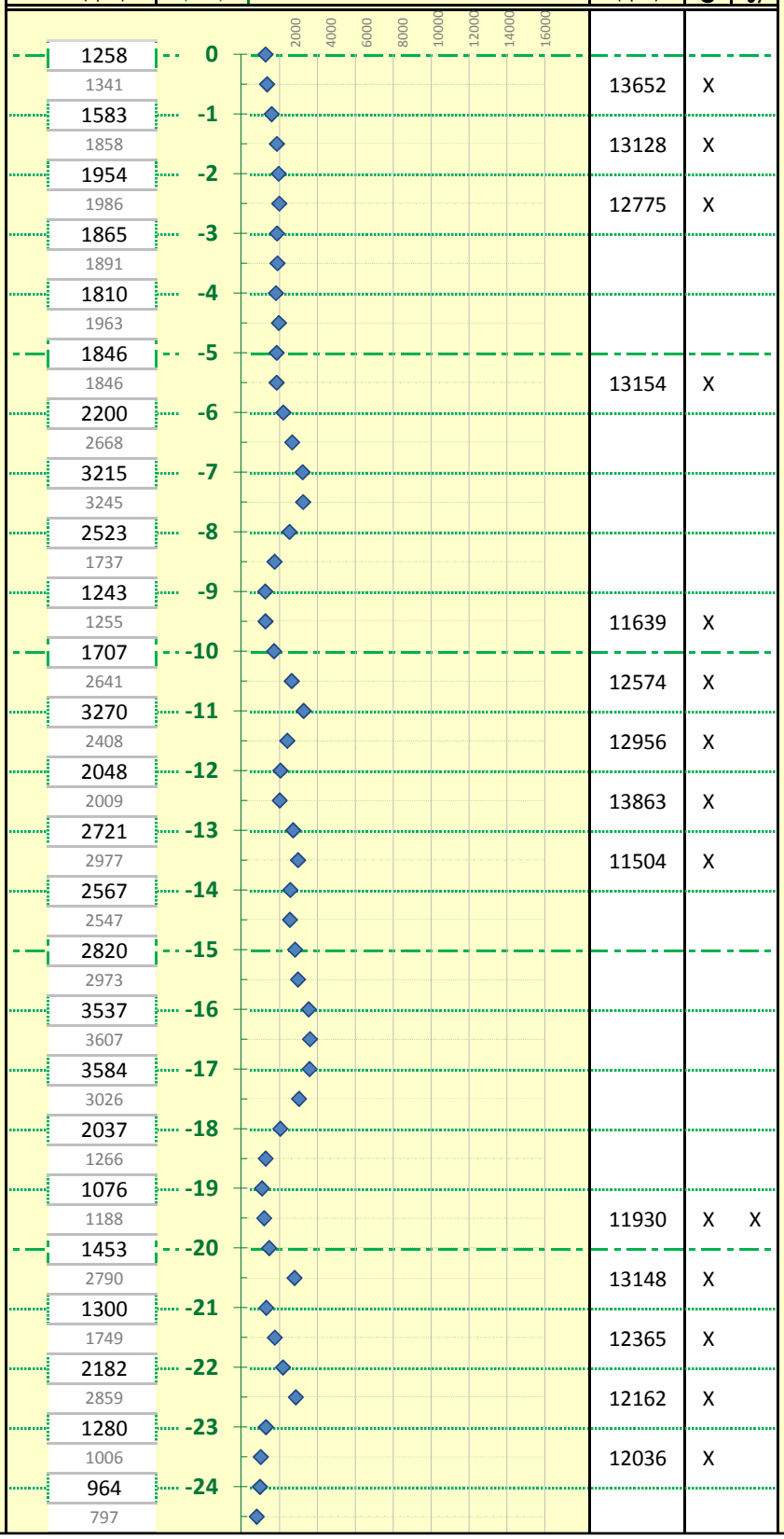
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**13-3**
Date Collected:	1/14/2014
GPS Location 1:	4294377.58
GPS Location 2:	722260.93

Area Bkg for Core Scan (2221/44-20): 10841 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1258	0			
1341		13652	X	
1583	-1			
1858		13128	X	
1954	-2			
1986		12775	X	
1865	-3			
1891				
1810	-4			
1963				
1846	-5			
1846		13154	X	
2200	-6			
2668				
3215	-7			
3245				
2523	-8			
1737				
1243	-9			
1255		11639	X	
1707	-10			
2641		12574	X	
3270	-11			
2408		12956	X	
2048	-12			
2009		13863	X	
2721	-13			
2977		11504	X	
2567	-14			
2547				
2820	-15			
2973				
3537	-16			
3607				
3584	-17			
3026				
2037	-18			
1266				
1076	-19			
1188		11930	X	X
1453	-20			
2790		13148	X	
1300	-21			
1749		12365	X	
2182	-22			
2859		12162	X	
1280	-23			
1006		12036	X	
964	-24			
797				

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**13-3**
Date Collected:	1/14/2014
GPS Location 1:	4294377.58
GPS Location 2:	722260.93

Background Reading using 44-20: 10841 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
792	-25				
963					
1342	-26				
1882					
1792	-27				
1534					
1316	-28				
662					
830	-29				
1034			12433	X	X
1180	-30				
1143			11736	X	
920	-31				
776			13057	X	
960	-32				
1253			12046	X	
1661	-33				
2095			11760	X	
1648	-34				
1107			11875	X	
760	-35				
783			12271	X	
856	-36				
1290					
1826	-37				
2115					
1810	-38				
1256					
1053	-39				
1347			12965	X	
1989	-40				
2468			12247	X	
2140	-41				
1770			12954	X	
1369	-42				
1258			13814	X	
1664	-43				
2364			13869	X	
2780	-44				
3172			12190	X	
3204	-45				
3062			13802	X	
2956	-46				
2013			12621	X	
	-47		12240	X	
	-48				
	-49		12686	X	

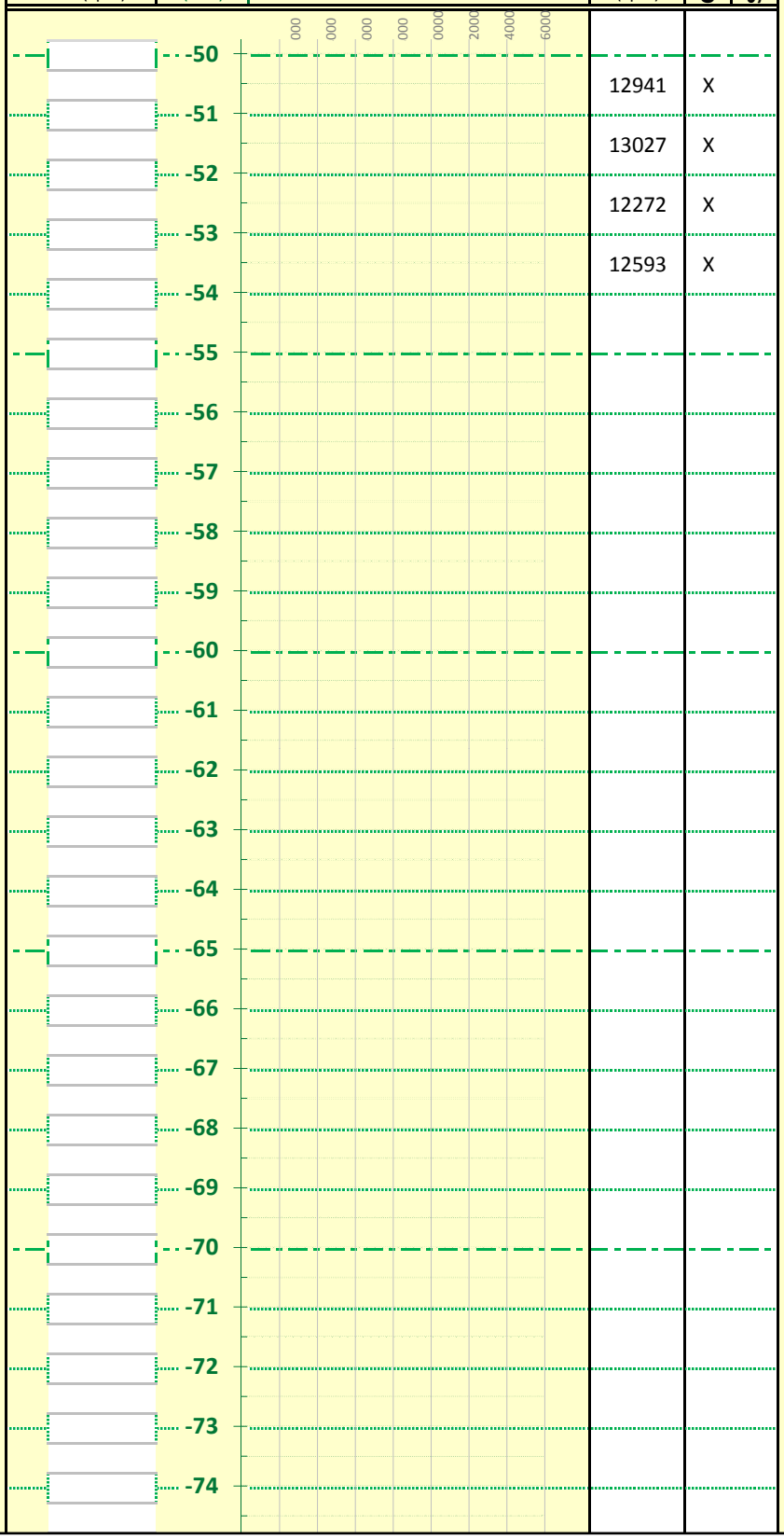
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**13-3**
Date Collected:	1/14/2014
GPS Location 1:	4294377.58
GPS Location 2:	722260.93

Background Reading using 44-20:
10841 cpm

Dose Reading 1 m above Surface (M19):
(@ BH location) 5 µR/h

NOTES:



Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
12941	X	
13027	X	
12272	X	
12593	X	

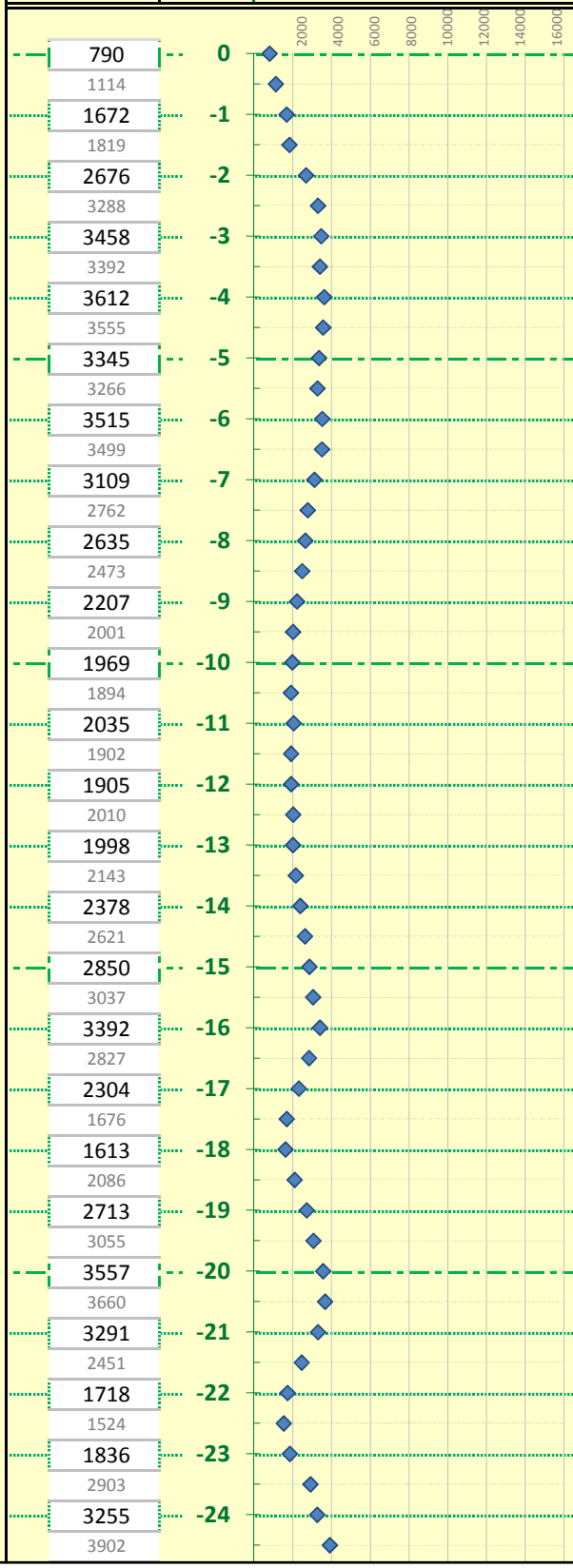
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH13-6**
Date Collected:	2/17/2014
GPS Location 1:	4294336.09
GPS Location 2:	722280.29

Area Bkg for Core Scan (2221/44-20): 9071 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
790	0			
1114		10402	X	
1672	-1			
1819		10956	X	
2676	-2			
3288		10772	X	
3458	-3			
3392		11109	X	
3612	-4			
3555				
3345	-5			
3266		11245	X	
3515	-6			
3499		11626	X	
3109	-7			
2762		11400	X	
2635	-8			
2473		11576	X	
2207	-9			
2001		11302	X	
1969	-10			
1894		11110	X	
2035	-11			
1902		10924	X	
1905	-12			
2010		11277	X	
1998	-13			
2143		10814	X	
2378	-14			
2621				
2850	-15			
3037				
3392	-16			
2827				
2304	-17			
1676				
1613	-18			
2086				
2713	-19			
3055		12250	X	
3557	-20			
3660		11866	X	
3291	-21			
2451		12293	X	
1718	-22			
1524		11916	X	
1836	-23			
2903				
3255	-24			
3902				

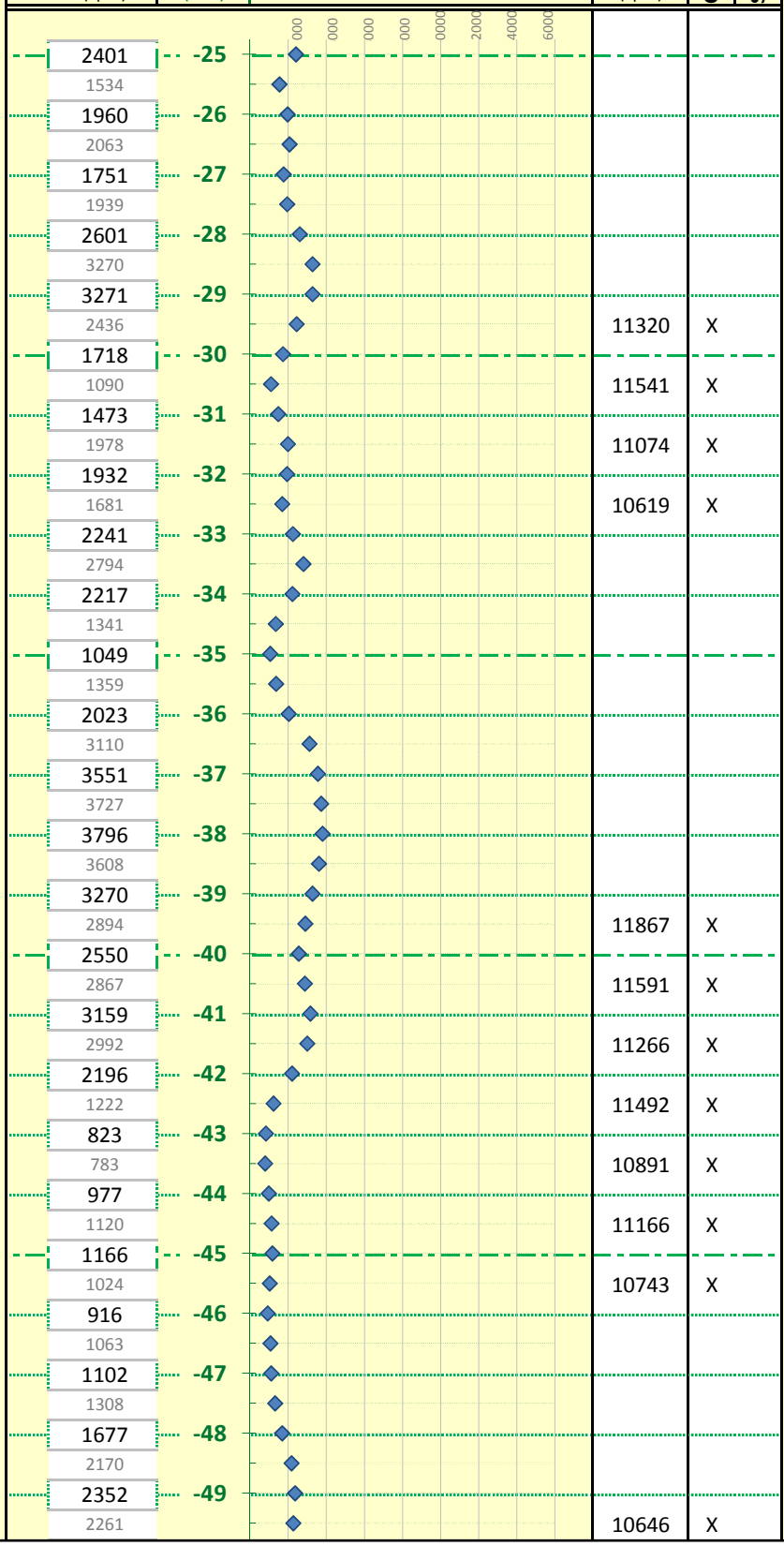
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH13-6**
Date Collected:	2/17/2014
GPS Location 1:	4294336.09
GPS Location 2:	722280.29

Background Reading using 44-20: 9071 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
2401	-25			
1534				
1960	-26			
2063				
1751	-27			
1939				
2601	-28			
3270				
3271	-29			
2436		11320	X	
1718	-30			
1090		11541	X	
1473	-31			
1978		11074	X	
1932	-32			
1681		10619	X	
2241	-33			
2794				
2217	-34			
1341				
1049	-35			
1359				
2023	-36			
3110				
3551	-37			
3727				
3796	-38			
3608				
3270	-39			
2894		11867	X	
2550	-40			
2867		11591	X	
3159	-41			
2992		11266	X	
2196	-42			
1222		11492	X	
823	-43			
783		10891	X	
977	-44			
1120		11166	X	
1166	-45			
1024		10743	X	
916	-46			
1063				
1102	-47			
1308				
1677	-48			
2170				
2352	-49			
2261		10646	X	

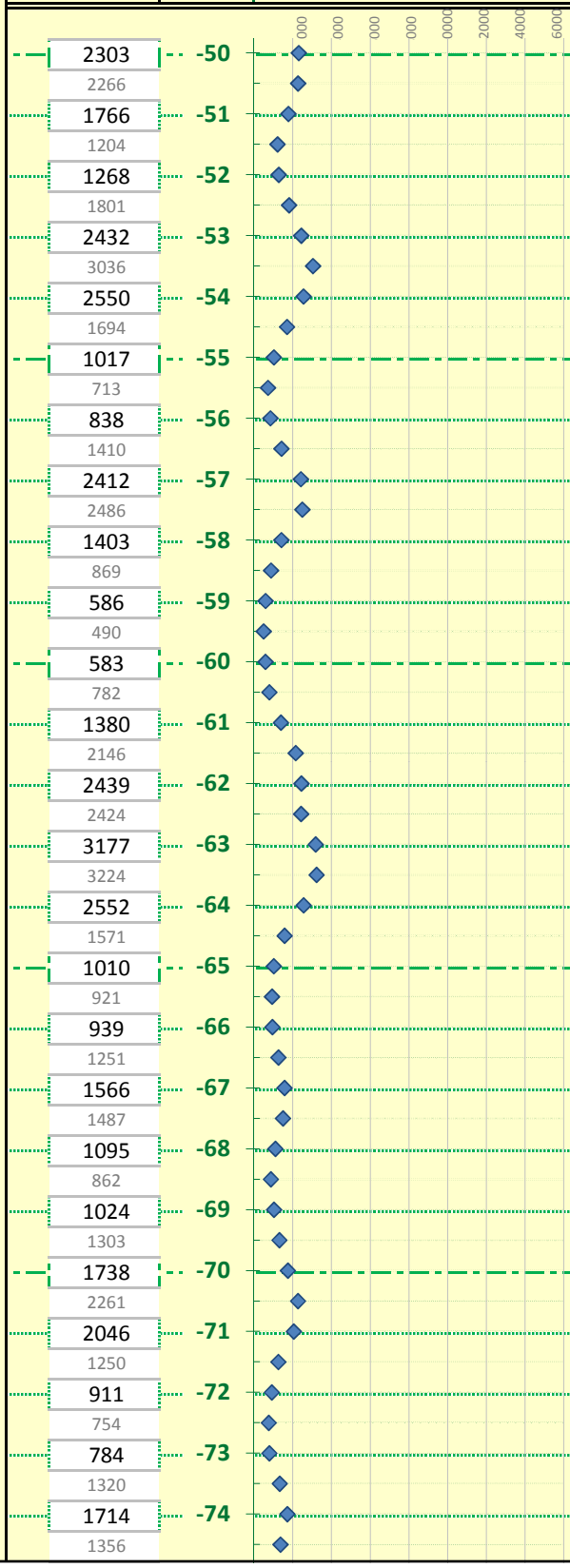
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH13-6**
Date Collected:	2/17/2014
GPS Location 1:	4294336.09
GPS Location 2:	722280.29

Background Reading using 44-20: 9071 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
11284	X	
9819	X	
10497	X	
10611	X	
11026	X	
11221	X	
10745	X	
10602	X	
11141	X	
10842	X	
10710	X	
9168	X	
10021	X	
10762	X	

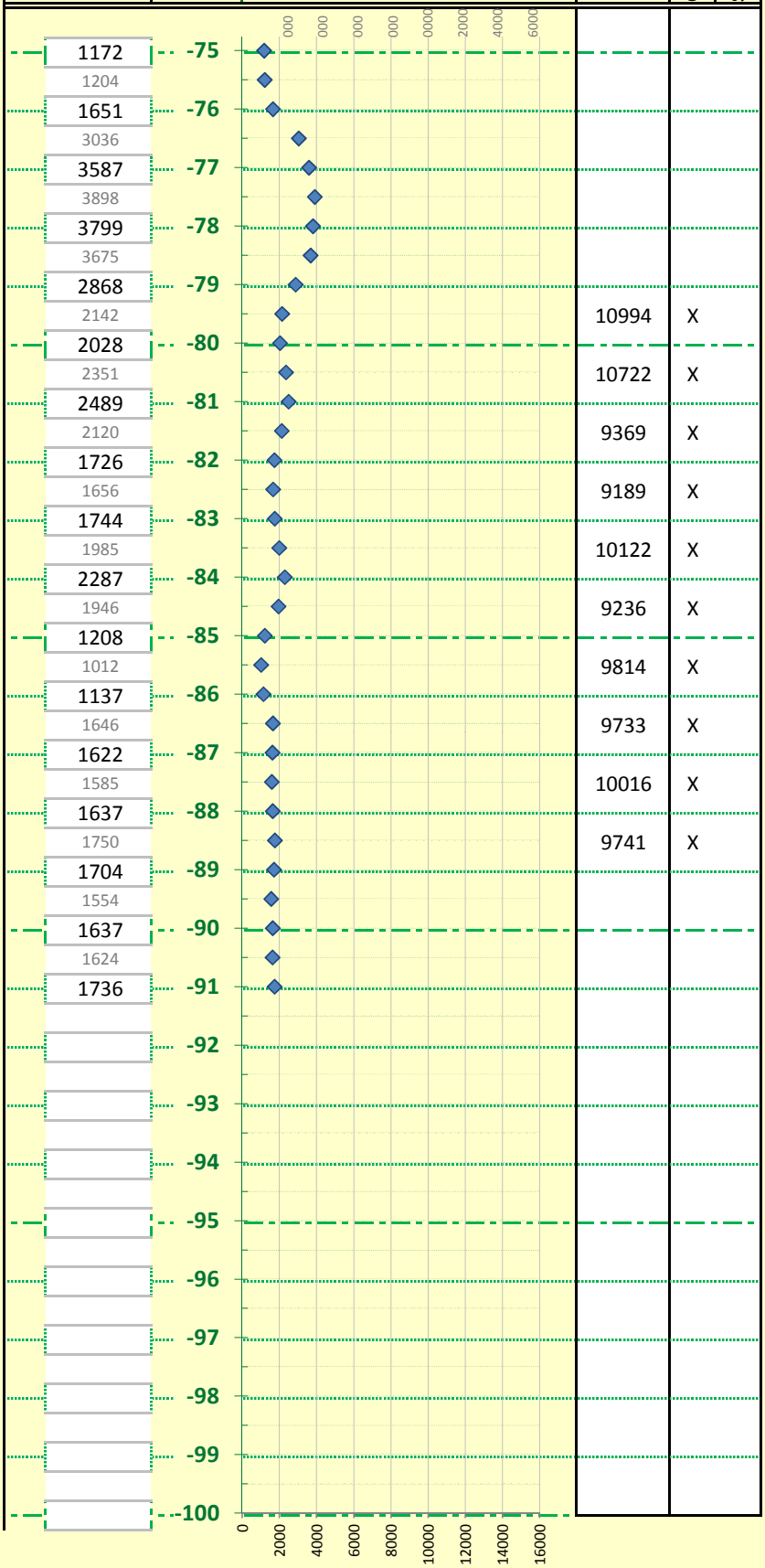
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH13-6**
Date Collected:	2/17/2014
GPS Location 1:	4294336.09
GPS Location 2:	722280.29

Background Reading using 44-20: 9071 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
10994	X	
10722	X	
9369	X	
9189	X	
10122	X	
9236	X	
9814	X	
9733	X	
10016	X	
9741	X	

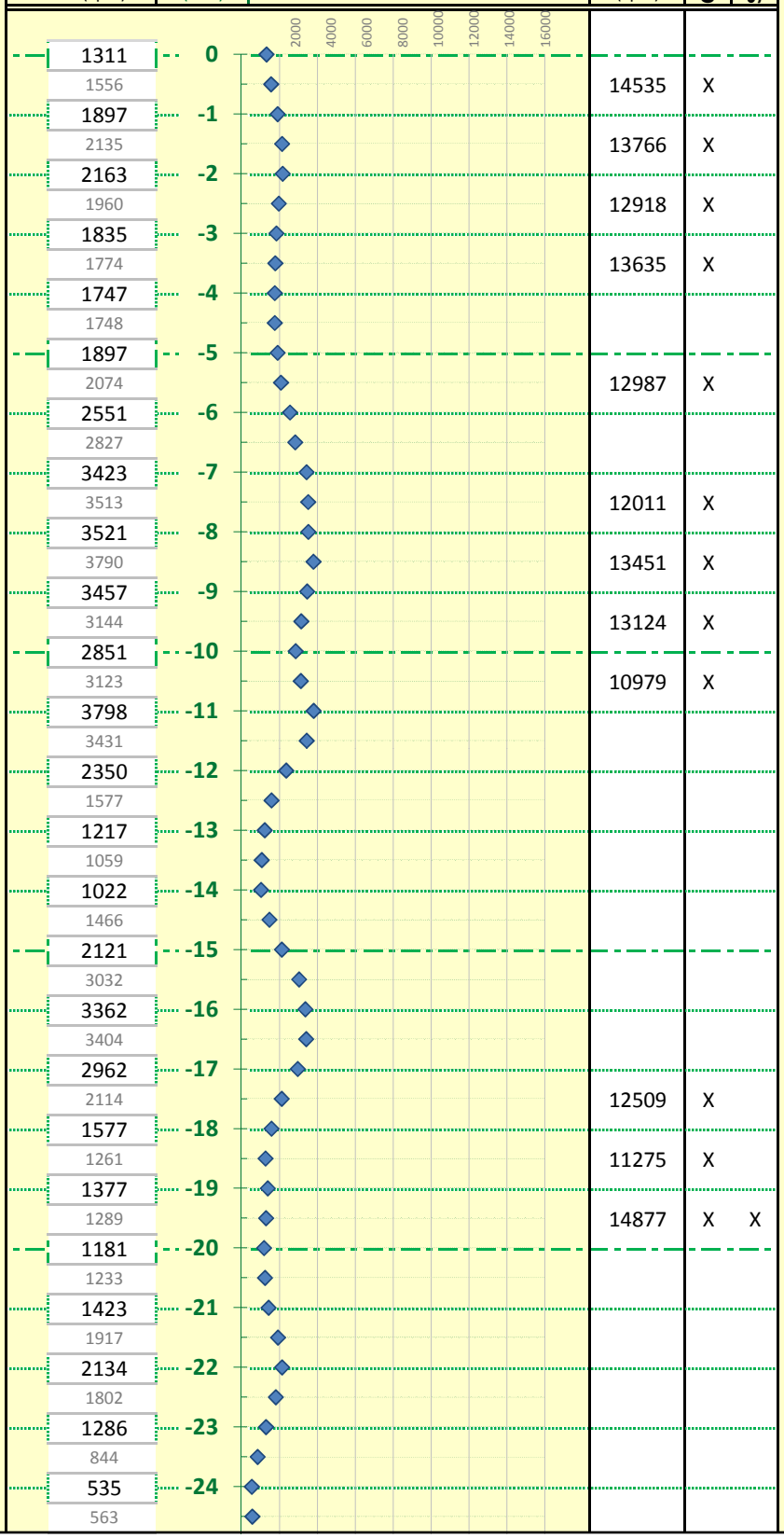
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-2**
Date Collected:	1/15/2014
GPS Location 1:	4294383.01
GPS Location 2:	722273.20

Area Bkg for Core Scan (2221/44-20): 11007 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1311	0			
1556		14535	X	
1897	-1			
2135		13766	X	
2163	-2			
1960		12918	X	
1835	-3			
1774		13635	X	
1747	-4			
1748				
1897	-5			
2074		12987	X	
2551	-6			
2827				
3423	-7			
3513		12011	X	
3521	-8			
3790		13451	X	
3457	-9			
3144		13124	X	
2851	-10			
3123		10979	X	
3798	-11			
3431				
2350	-12			
1577				
1217	-13			
1059				
1022	-14			
1466				
2121	-15			
3032				
3362	-16			
3404				
2962	-17			
2114		12509	X	
1577	-18			
1261		11275	X	
1377	-19			
1289		14877	X	X
1181	-20			
1233				
1423	-21			
1917				
2134	-22			
1802				
1286	-23			
844				
535	-24			
563				

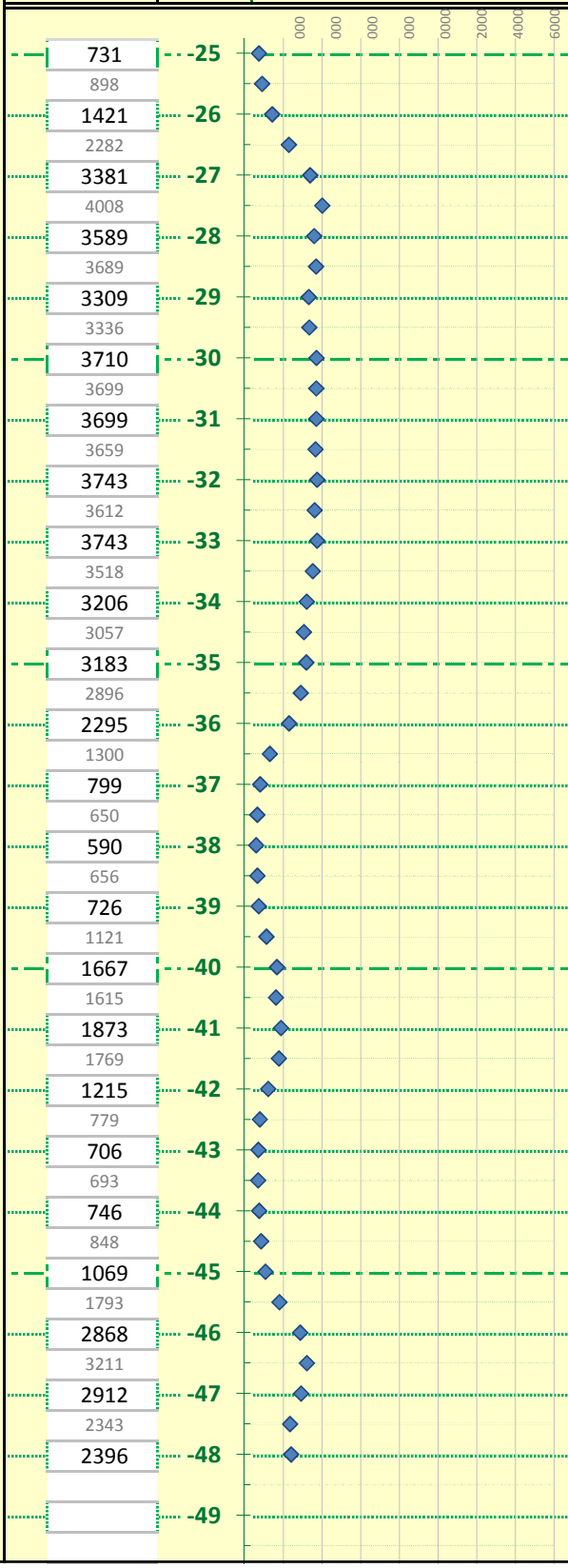
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-2**
Date Collected:	1/15/2014
GPS Location 1:	4294383.01
GPS Location 2:	722273.20

Background Reading using 44-20: 11007 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
731	-25			
898				
1421	-26			
2282				
3381	-27			
4008		12647	X	
3589	-28			
3689		12721	X	
3309	-29			
3336		16548	X	X
3710	-30			
3699		15384	X	X
3699	-31			
3659		13970	X	
3743	-32			
3612		11827	X	
3743	-33			
3518		12628	X	
3206	-34			
3057				
3183	-35			
2896				
2295	-36			
1300				
799	-37			
650		13923	X	
590	-38			
656		12437	X	
726	-39			
1121		13343	X	
1667	-40			
1615		12838	X	
1873	-41			
1769				
1215	-42			
779				
706	-43			
693				
746	-44			
848				
1069	-45			
1793				
2868	-46			
3211				
2912	-47			
2343		13069	X	
2396	-48			
		11588	X	
	-49			
		11902	X	

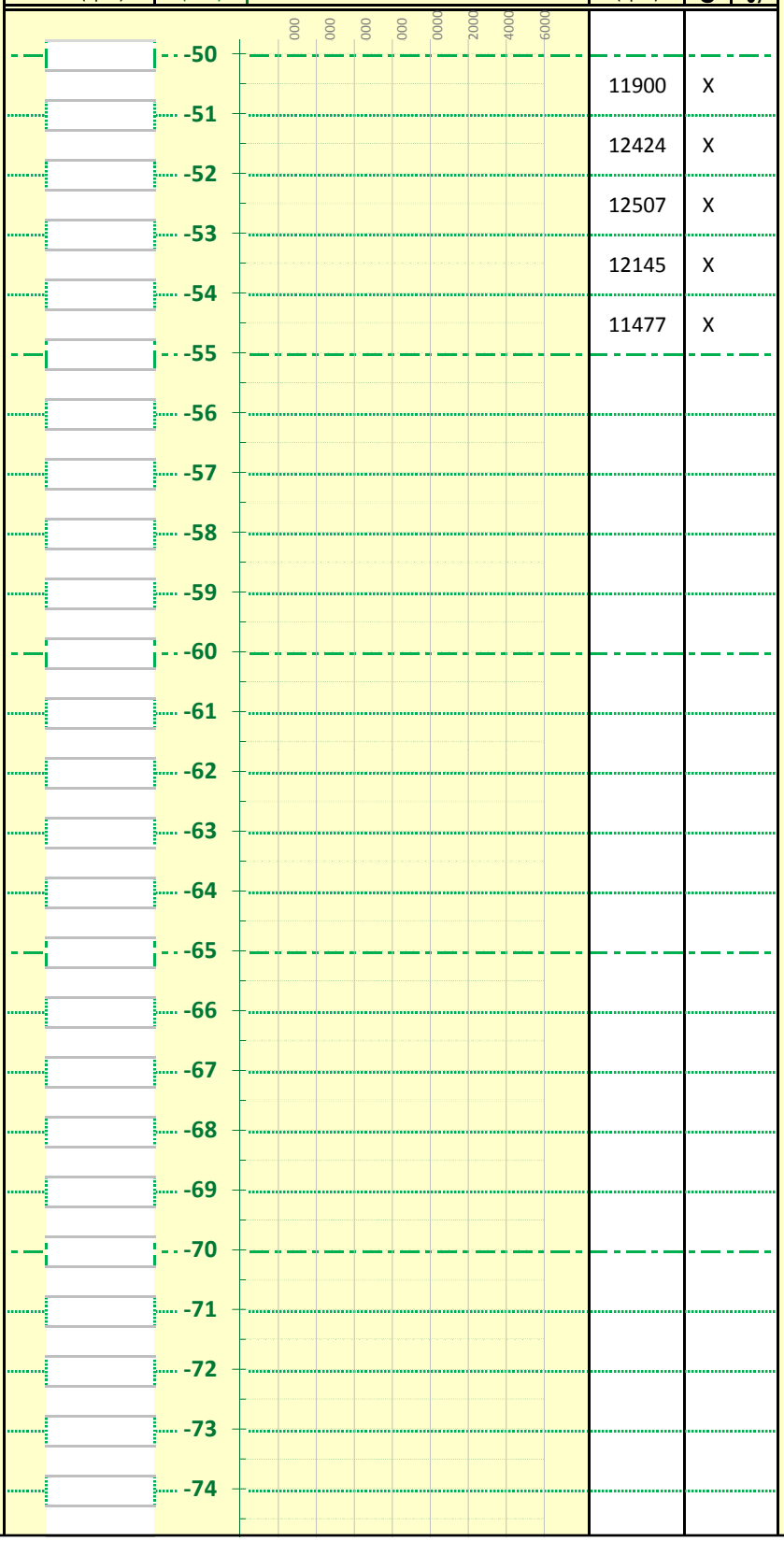
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-2**
Date Collected:	1/15/2014
GPS Location 1:	4294383.01
GPS Location 2:	722273.20

Background Reading using 44-20:
11007 cpm

Dose Reading 1 m above Surface (M19):
(@ BH location) 5 µR/h

NOTES:



Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
11900	X	
12424	X	
12507	X	
12145	X	
11477	X	

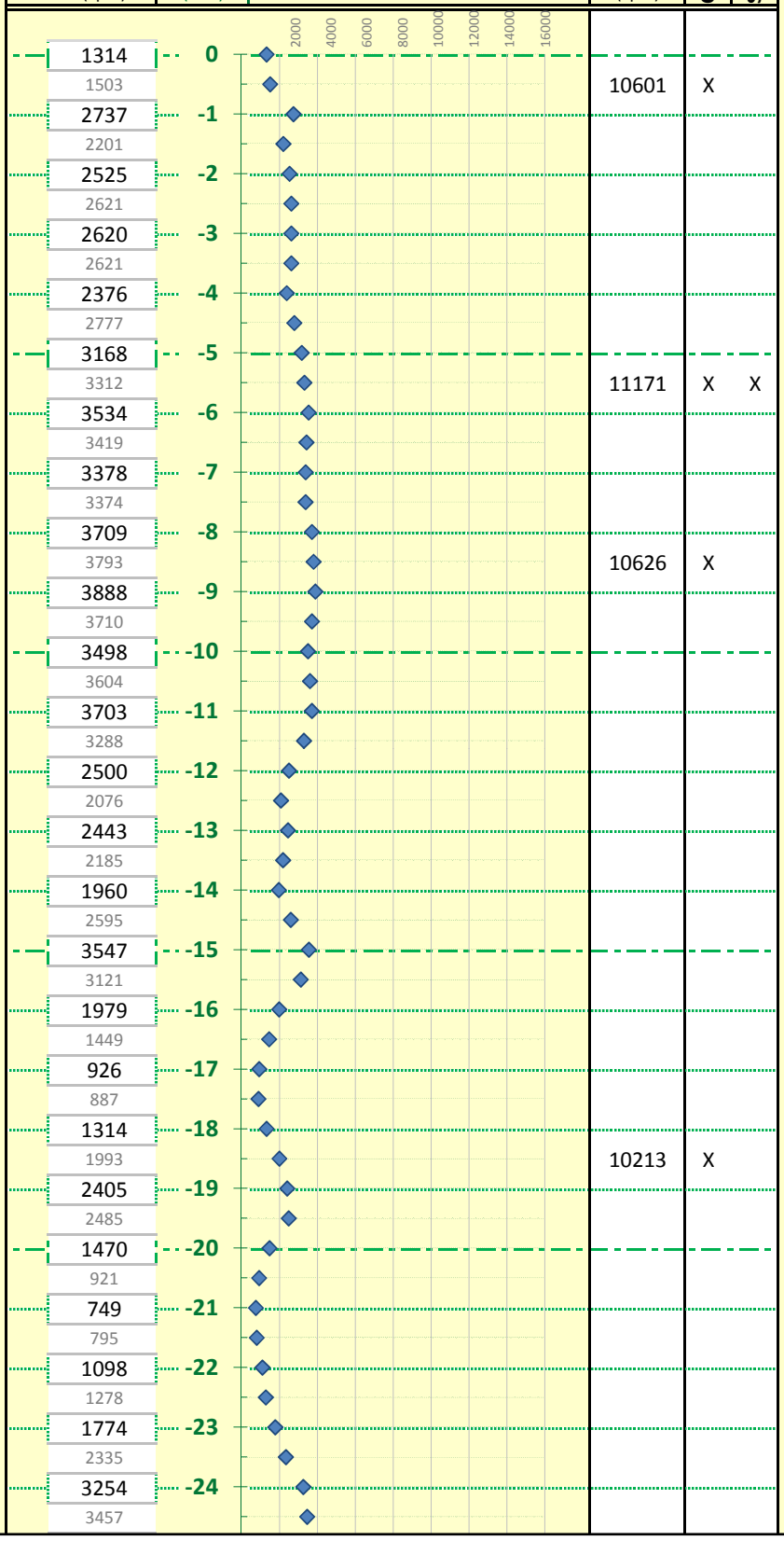
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-4**
Date Collected:	1/20/2014
GPS Location 1:	4294361.50
GPS Location 2:	722286.61

Area Bkg for Core Scan (2221/44-20): 10627 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1314	0			
1503		10601	X	
2737	-1			
2201				
2525	-2			
2621				
2620	-3			
2621				
2376	-4			
2777				
3168	-5			
3312		11171	X	X
3534	-6			
3419				
3378	-7			
3374				
3709	-8			
3793		10626	X	
3888	-9			
3710				
3498	-10			
3604				
3703	-11			
3288				
2500	-12			
2076				
2443	-13			
2185				
1960	-14			
2595				
3547	-15			
3121				
1979	-16			
1449				
926	-17			
887				
1314	-18			
1993		10213	X	
2405	-19			
2485				
1470	-20			
921				
749	-21			
795				
1098	-22			
1278				
1774	-23			
2335				
3254	-24			
3457				

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-4**
Date Collected:	1/20/2014
GPS Location 1:	4294361.50
GPS Location 2:	722286.61

Background Reading using 44-20: 10627 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
3124	-25				
2689					
1625	-26				
1156					
1013	-27				
1056					
1143	-28				
1126			10727	X	X
1243	-29				
1353			10438	X	
1305	-30				
1223					
1061	-31				
949					
1023	-32				
1009					
1041	-33				
1188					
1611	-34				
1708					
1129	-35				
835					
	-36				
	-37				
	-38		10762	X	
	-39		11041	X	
	-40		11662	X	
	-41		10791	X	
	-42		11414	X	
	-43		11201	X	
	-44		10204	X	
	-45		9883	X	
	-46		10433	X	
	-47				
	-48				
	-49				

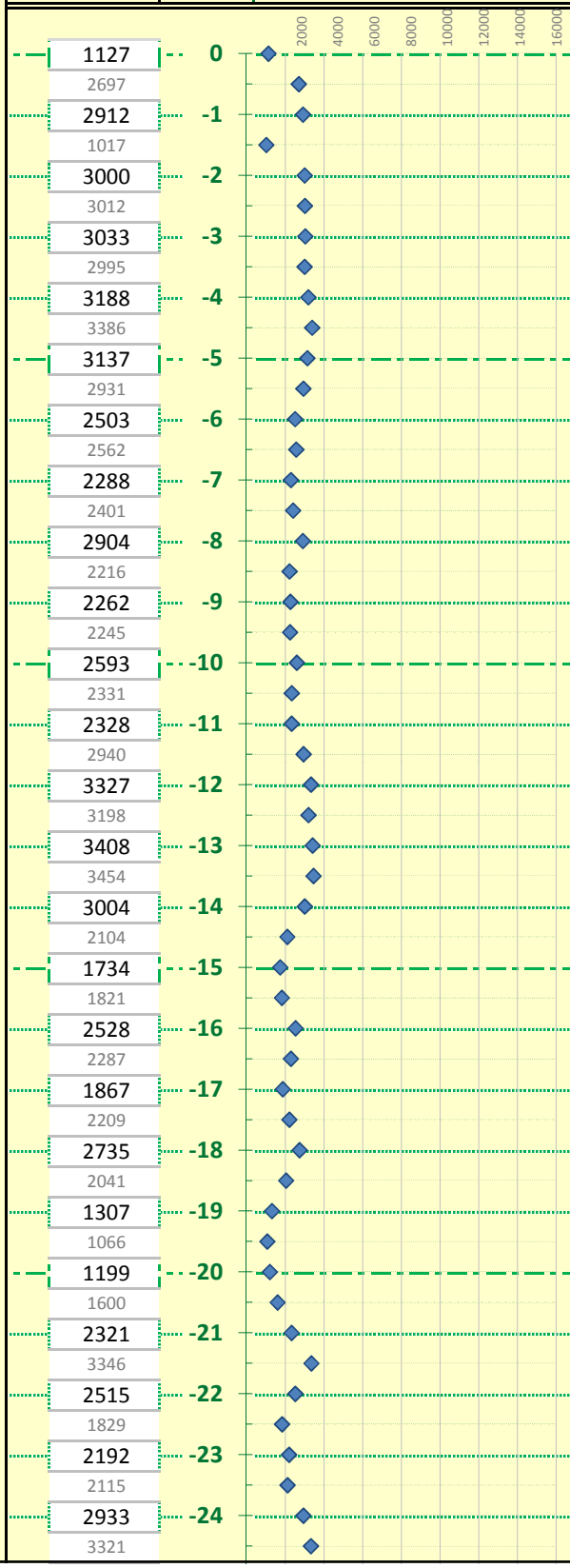
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH14-5**
Date Collected:	2/25/2014
GPS Location 1:	4294346.20
GPS Location 2:	722297.06

Area Bkg for Core Scan (2221/44-20): 9152 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1127	0			
2697		10558	X	
2912	-1			
1017		10555	X	
3000	-2			
3012		10918	X	
3033	-3			
2995				
3188	-4			
3386				
3137	-5			
2931		11001	X	
2503	-6			
2562		10928	X	
2288	-7			
2401		11217	X	
2904	-8			
2216		10838	X	
2262	-9			
2245		10229	X	
2593	-10			
2331		10533	X	
2328	-11			
2940		11029	X	
3327	-12			
3198		11457	X	
3408	-13			
3454				
3004	-14			
2104				
1734	-15			
1821				
2528	-16			
2287				
1867	-17			
2209				
2735	-18			
2041				
1307	-19			
1066		11146	X	
1199	-20			
1600		10729	X	
2321	-21			
3346		11264	X	
2515	-22			
1829		10941	X	
2192	-23			
2115		10806	X	
2933	-24			
3321				

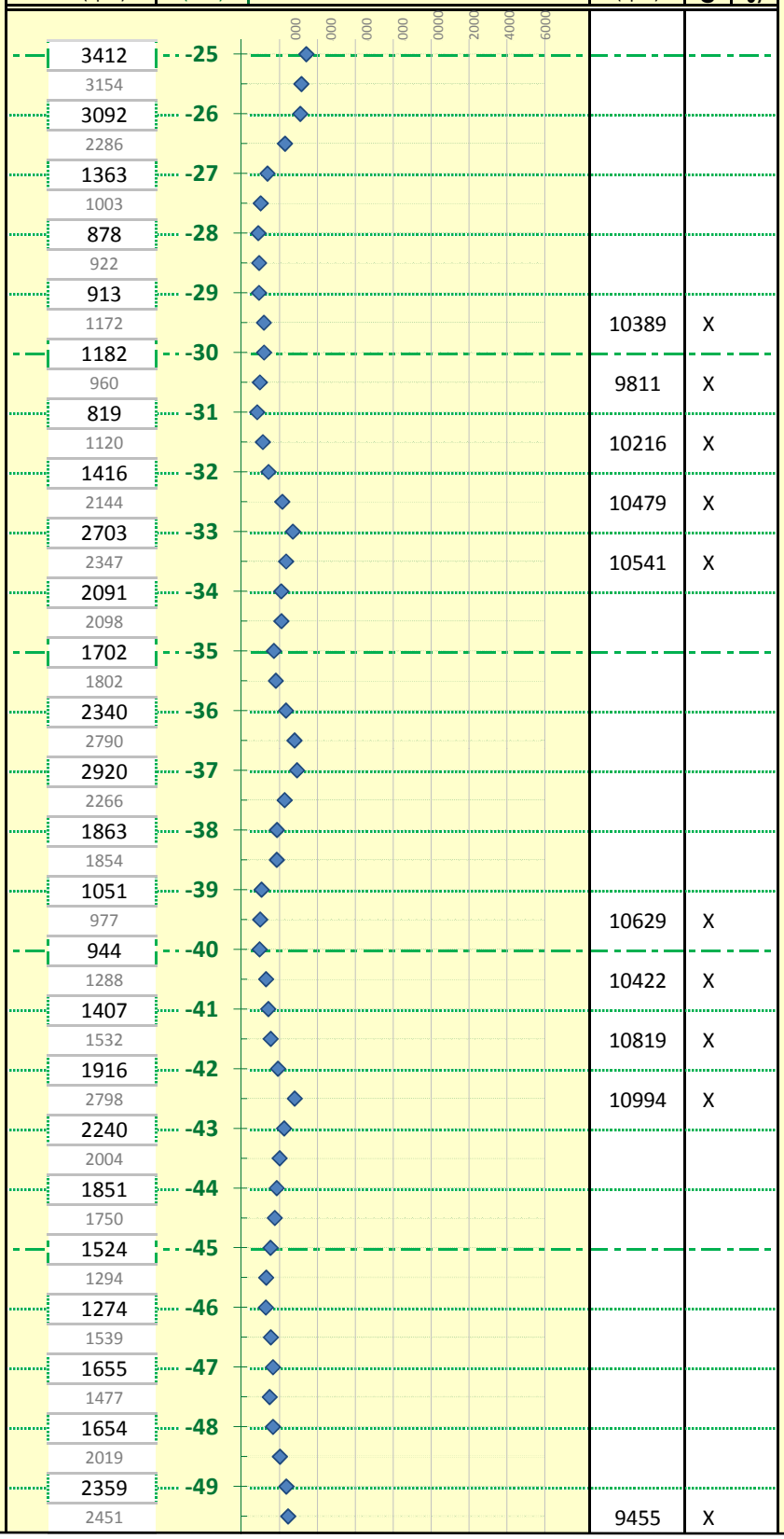
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH14-5**
Date Collected:	2/25/2014
GPS Location 1:	4294346.20
GPS Location 2:	722297.06

Background Reading using 44-20: 9152 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
3412	-25			
3154				
3092	-26			
2286				
1363	-27			
1003				
878	-28			
922				
913	-29			
1172		10389	X	
1182	-30			
960		9811	X	
819	-31			
1120		10216	X	
1416	-32			
2144		10479	X	
2703	-33			
2347		10541	X	
2091	-34			
2098				
1702	-35			
1802				
2340	-36			
2790				
2920	-37			
2266				
1863	-38			
1854				
1051	-39			
977		10629	X	
944	-40			
1288		10422	X	
1407	-41			
1532		10819	X	
1916	-42			
2798		10994	X	
2240	-43			
2004				
1851	-44			
1750				
1524	-45			
1294				
1274	-46			
1539				
1655	-47			
1477				
1654	-48			
2019				
2359	-49			
2451		9455	X	

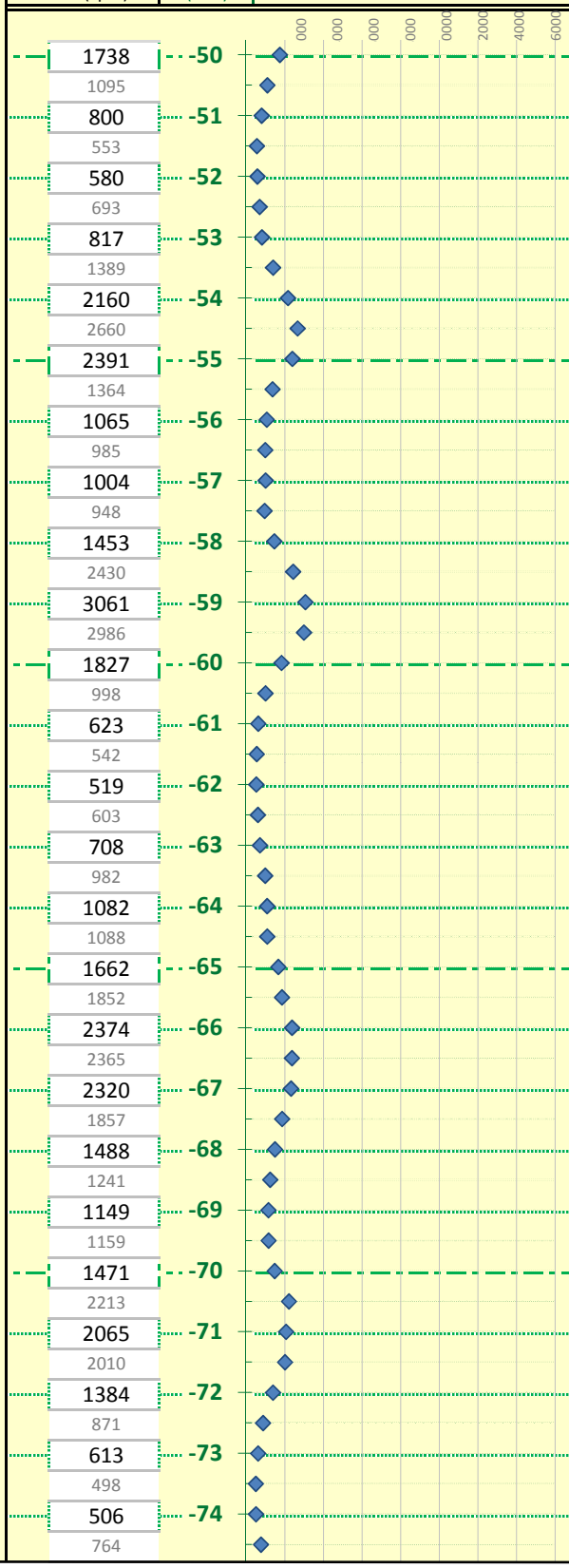
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH14-5**
Date Collected:	2/25/2014
GPS Location 1:	4294346.20
GPS Location 2:	722297.06

Background Reading using 44-20: 9152 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1738	-50			
1095		9782	X	
800	-51			
553		9531	X	
580	-52			
693				
817	-53			
1389				
2160	-54			
2660				
2391	-55			
1364				
1065	-56			
985				
1004	-57			
948				
1453	-58			
2430				
3061	-59			
2986		9803	X	
1827	-60			
998		10741	X	
623	-61			
542		10268	X	
519	-62			
603		9614	X	
708	-63			
982		10036	X	
1082	-64			
1088		10419	X	
1662	-65			
1852		10124	X	
2374	-66			
2365				
2320	-67			
1857				
1488	-68			
1241				
1149	-69			
1159		10192	X	
1471	-70			
2213		10220	X	
2065	-71			
2010				
1384	-72			
871				
613	-73			
498				
506	-74			
764				

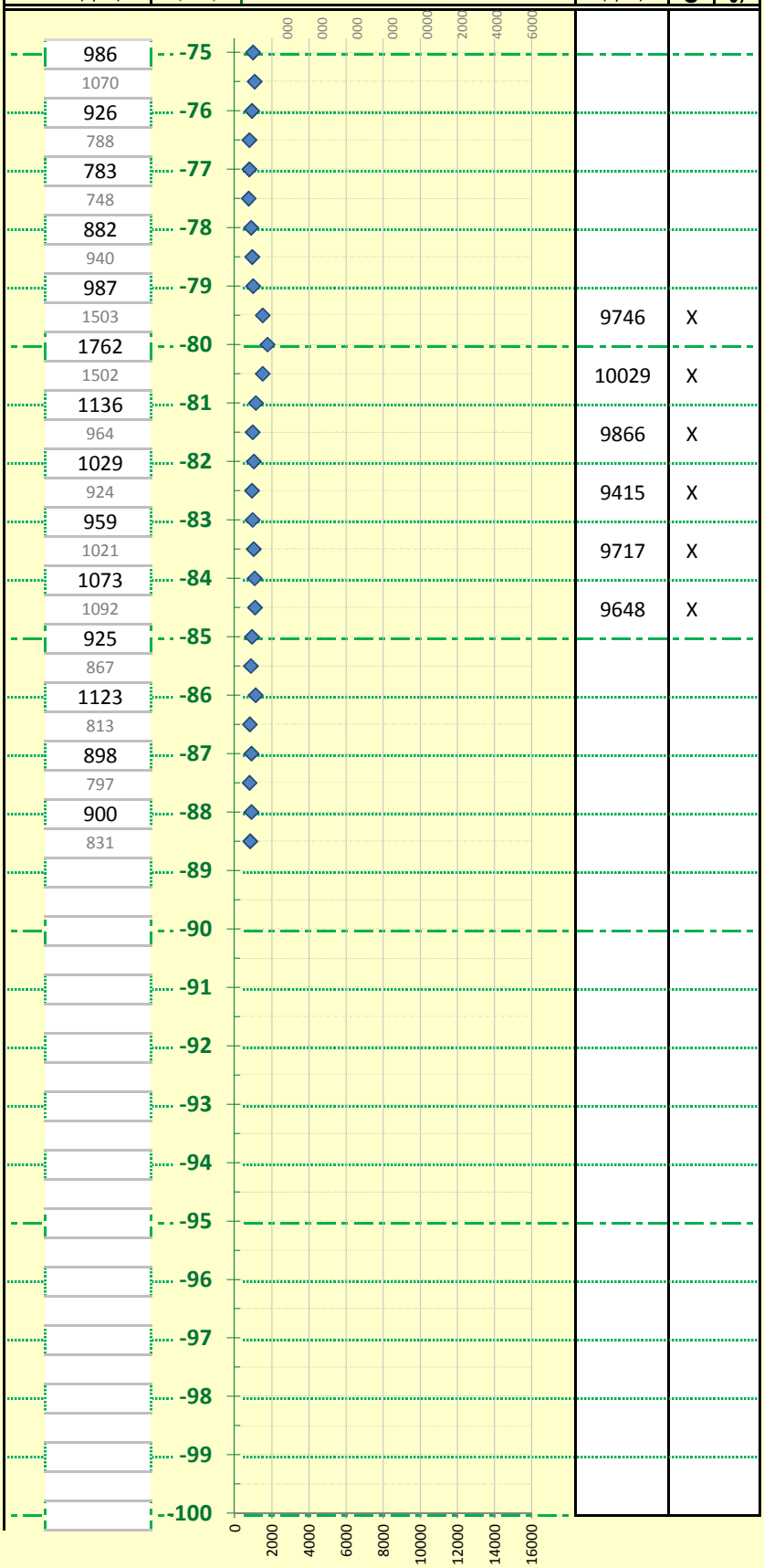
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH14-5**
Date Collected:	2/25/2014
GPS Location 1:	4294346.20
GPS Location 2:	722297.06

Background Reading using 44-20: 9152 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



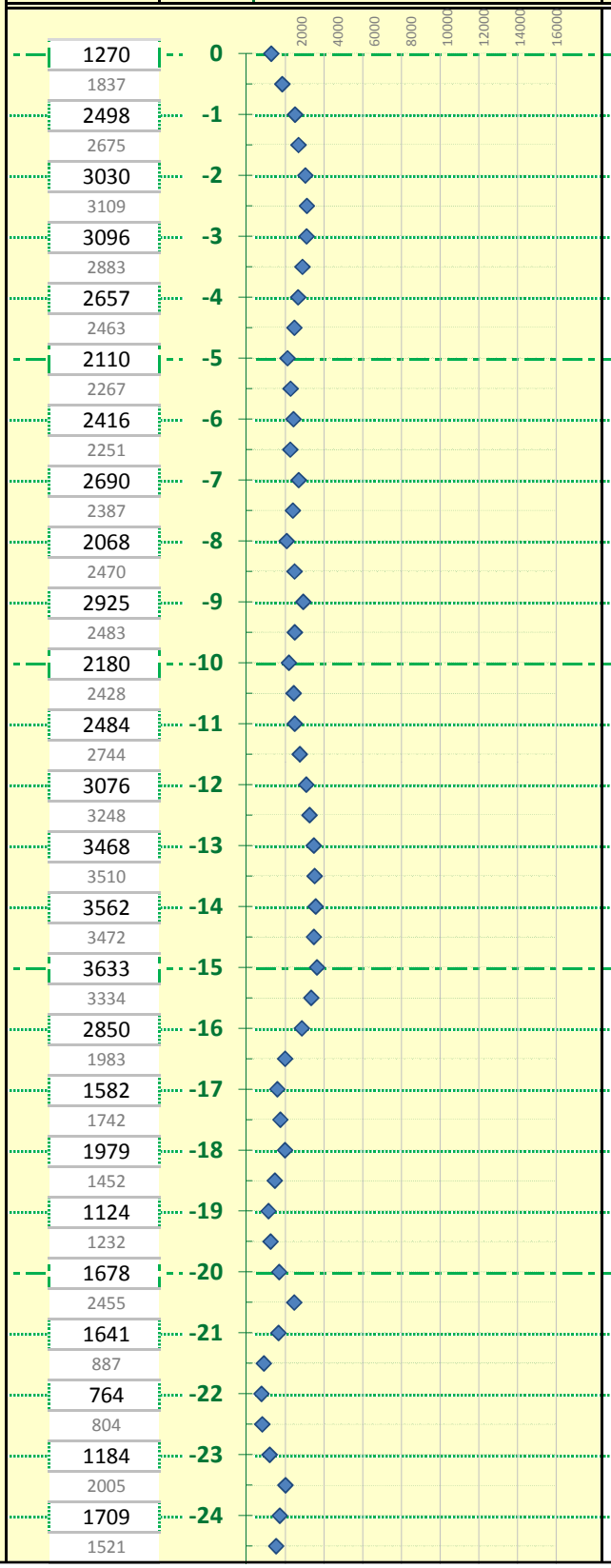
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-7**
Date Collected:	1/16/2014
GPS Location 1:	4294317.26
GPS Location 2:	722320.06

Area Bkg for Core Scan (2221/44-20): 11718 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 6 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1270	0			
1837		10476	X	
2498	-1			
2675		11290	X	
3030	-2			
3109		11596	X	
3096	-3			
2883		10865	X	
2657	-4			
2463				
2110	-5			
2267		10566	X	
2416	-6			
2251		11282	X	
2690	-7			
2387		10535	X	
2068	-8			
2470				
2925	-9			
2483		11096	X	
2180	-10			
2428		10929	X	
2484	-11			
2744		10134	X	
3076	-12			
3248		10701	X	
3468	-13			
3510		11666	X	X
3562	-14			
3472		11193	X	
3633	-15			
3334		10769	X	
2850	-16			
1983				
1582	-17			
1742				
1979	-18			
1452				
1124	-19			
1232		10346	X	
1678	-20			
2455		10141	X	
1641	-21			
887		9772	X	
764	-22			
804		10122	X	
1184	-23			
2005				
1709	-24			
1521				

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-7**
Date Collected:	1/16/2014
GPS Location 1:	4294317.26
GPS Location 2:	722320.06

Background Reading using 44-20: 11718 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 6 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
2123	-25			
2903				
2584	-26			
3172				
3588	-27			
3550				
3474	-28			
3393				
3383	-29			
2579		11419	X	
2769	-30			
2893		10992	X	
3168	-31			
3637		13227	X	
3524	-32			
3414		12915	X	
3385	-33			
3315		12300	X	
3046	-34			
2010				
1775	-35			
1942				
2758	-36			
3282				
3558	-37			
2601				
1643	-38			
1186				
1147	-39			
1134		10339	X	X
1185	-40			
1394		10727	X	
1664	-41			
2022		13121	X	
2822	-42			
3328		12678	X	
3028	-43			
2500		11413	X	
2470	-44			
3017				
3557	-45			
3390				
2795	-46			
2757				
3095	-47			
2745				
1529	-48			
1340				
1236	-49			
1222		10483	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-7**
Date Collected:	1/16/2014
GPS Location 1:	4294317.26
GPS Location 2:	722320.06

Background Reading using 44-20: 11718 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 6 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1120	-50				
938			11024	X	
1185	-51				
1730			11035	X	
2447	-52				
2050			10677	X	
1242	-53				
731			11958	X	
607	-54				
577					
546	-55				
554					
593	-56				
948					
1525	-57				
2250					
2378	-58				
2239					
1593	-59				
816			11426	X	
559	-60				
446			10831	X	
590	-61				
551			9697	X	
690	-62				
1065			10099	X	
1635	-63				
1754			9583	X	
1577	-64				
1488					
1641	-65				
2030					
1869	-66				
2048					
2190	-67				
1913					
1159	-68				
1372					
1809	-69				
2395			9970	X	
1770	-70				
949			10382	X	
884	-71				
775			10803	X	
981	-72				
1450			11287	X	
1807	-73				
1707			11212	X	
1571	-74				
834					

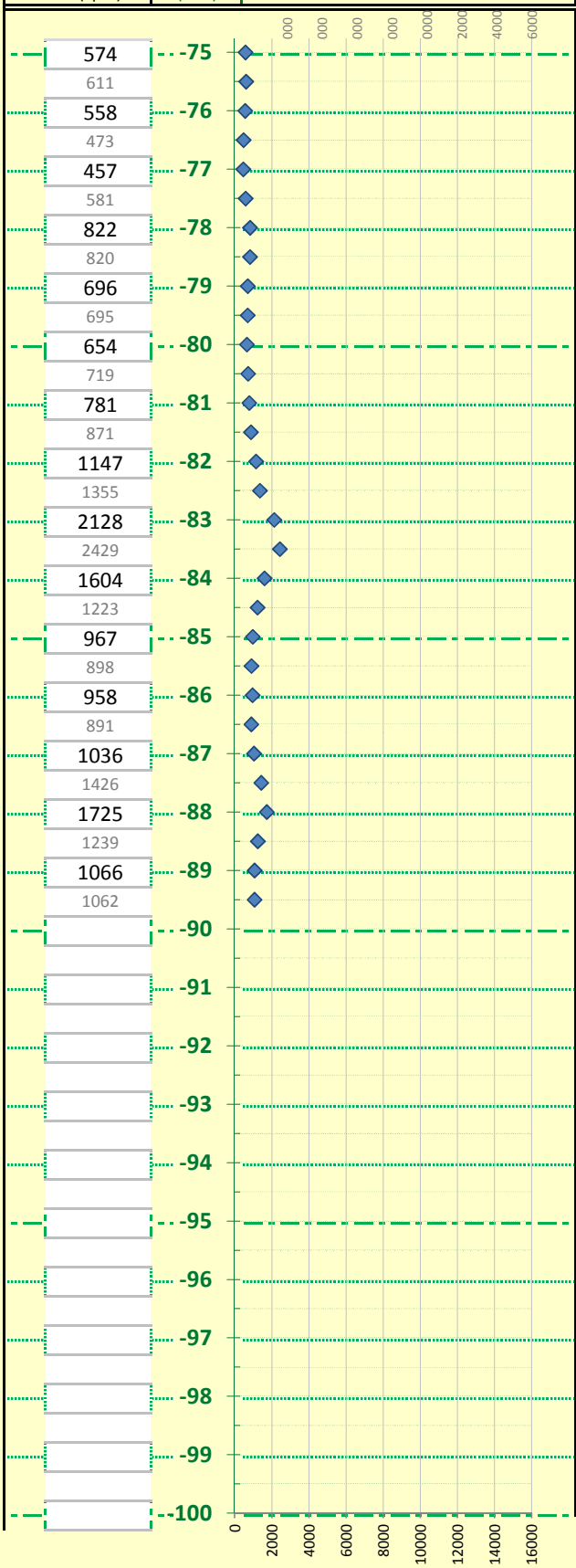
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**14-7**
Date Collected:	1/16/2014
GPS Location 1:	4294317.26
GPS Location 2:	722320.06

Background Reading using 44-20: 11718 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 6 µR/h

NOTES:



Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
9587	X	
9515	X	
9830	X	
10632	X	
10122	X	
9160	X	
10118	X	
10417	X	
10192	X	
11090	X	
10382	X	
9588	X	
9471	X	
10763	X	
10461	X	
10501	X	
10150	X	
10872	X	
10866	X	

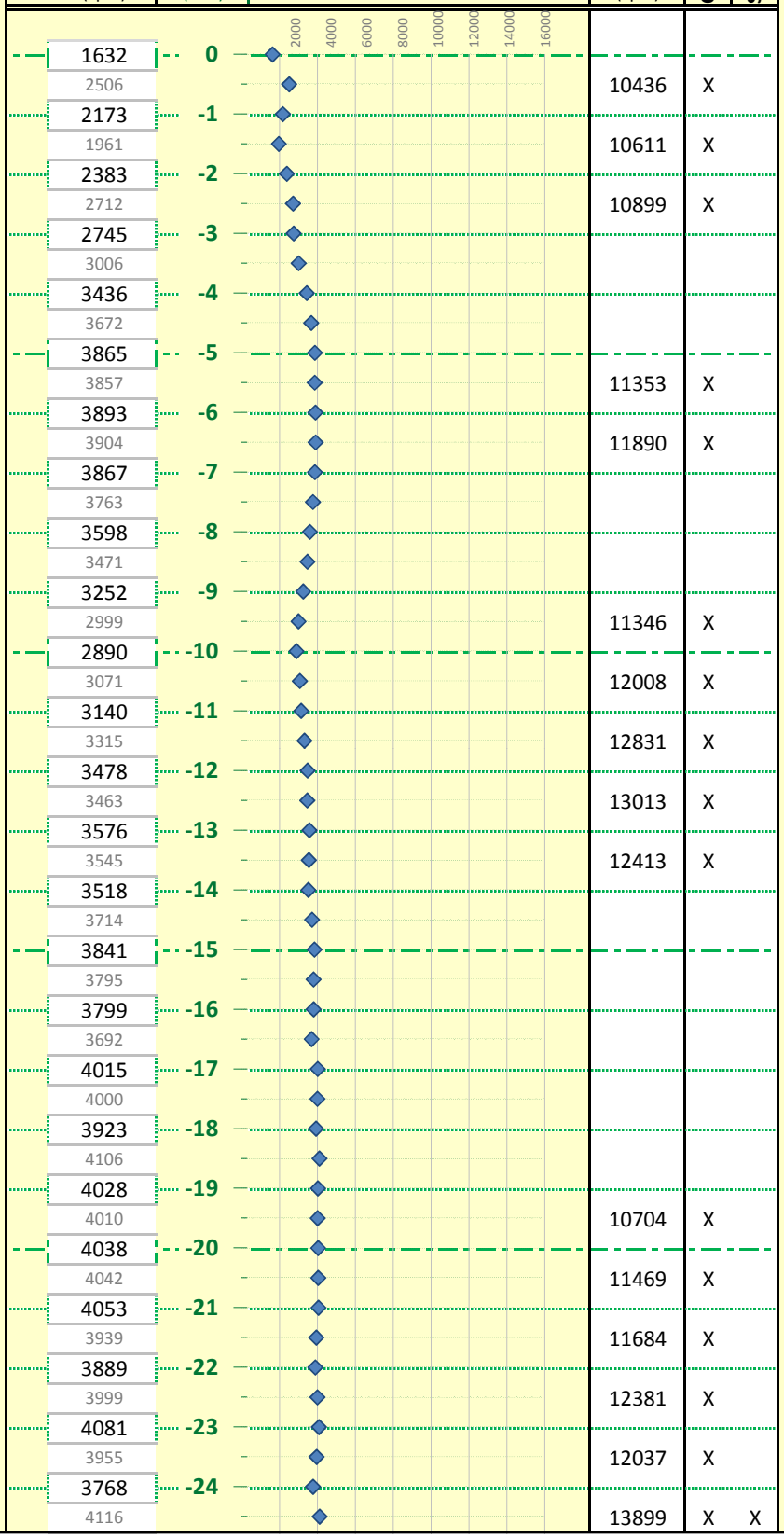
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**15-2**
Date Collected:	1/18/2014
GPS Location 1:	4294392.21
GPS Location 2:	722292.58

Area Bkg for Core Scan (2221/44-20): 10921 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 8 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1632	0			
2506		10436	X	
2173	-1			
1961		10611	X	
2383	-2			
2712		10899	X	
2745	-3			
3006				
3436	-4			
3672				
3865	-5			
3857		11353	X	
3893	-6			
3904		11890	X	
3867	-7			
3763				
3598	-8			
3471				
3252	-9			
2999		11346	X	
2890	-10			
3071		12008	X	
3140	-11			
3315		12831	X	
3478	-12			
3463		13013	X	
3576	-13			
3545		12413	X	
3518	-14			
3714				
3841	-15			
3795				
3799	-16			
3692				
4015	-17			
4000				
3923	-18			
4106				
4028	-19			
4010		10704	X	
4038	-20			
4042		11469	X	
4053	-21			
3939		11684	X	
3889	-22			
3999		12381	X	
4081	-23			
3955		12037	X	
3768	-24			
4116		13899	X	X

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**15-2**
Date Collected:	1/18/2014
GPS Location 1:	4294392.21
GPS Location 2:	722292.58

Background Reading using 44-20: 10921 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 8 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
4723	-25	11766	X	
4864				
5184	-26	12221	X	
5068				
4862	-27	10871	X	
4588				
4016	-28			
	-29	11043	X	
	-30	11793	X	
	-31	12110	X	
	-32	12098	X	
	-33	11810	X	
	-34	12450	X	
	-35	12636	X	
	-36	12306	X	
	-37	11843	X	
	-38			
	-39	12366	X	
	-40	12934	X	
	-41	13353	X	
	-42	13349	X	
	-43	13421	X	X
	-44	12942	X	
	-45	12927	X	
	-46	12790	X	
	-47			
	-48			
	-49	12141	X	

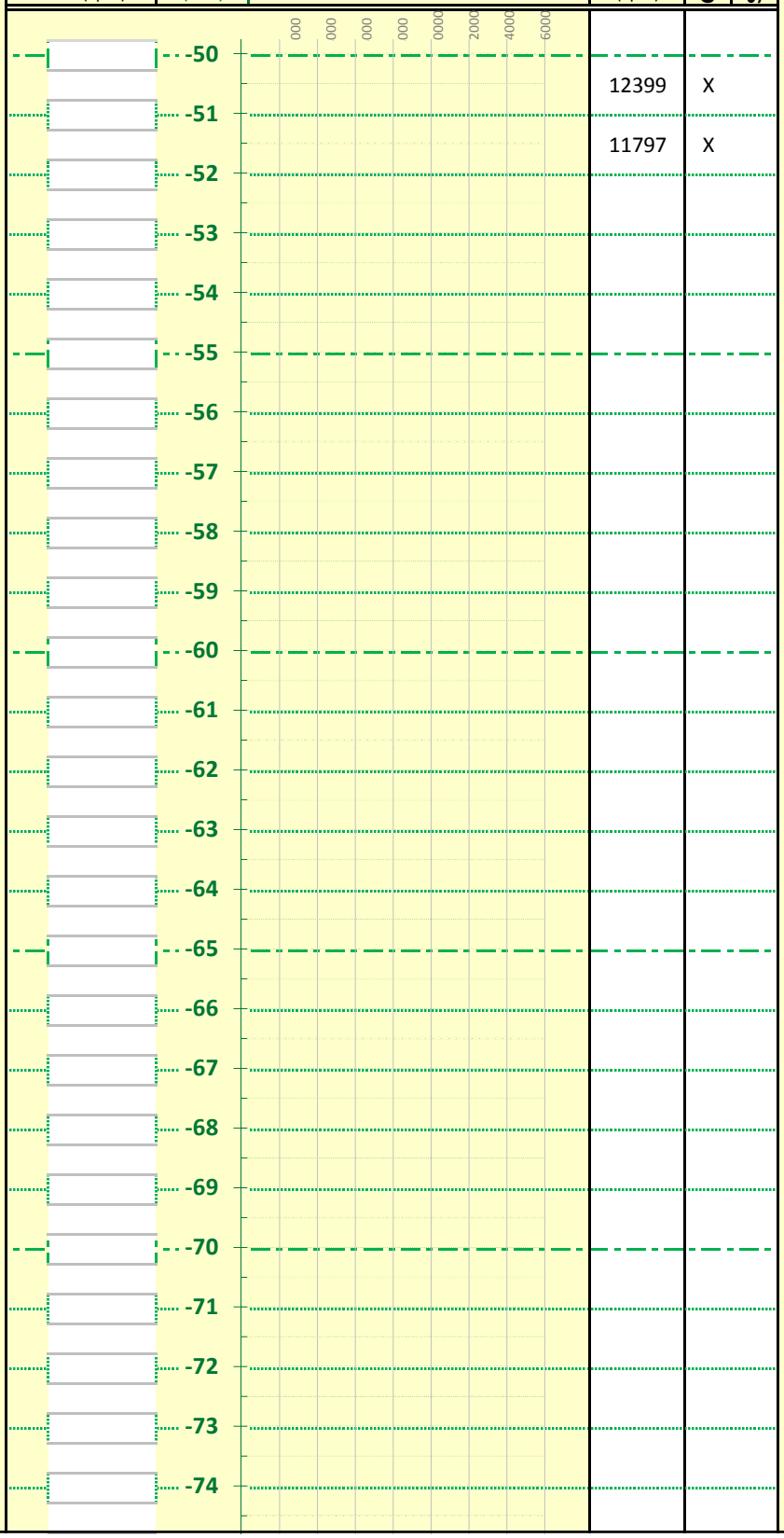
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**15-2**
Date Collected:	1/18/2014
GPS Location 1:	4294392.21
GPS Location 2:	722292.58

Background Reading using 44-20:
10921 cpm

Dose Reading 1 m above Surface (M19):
(@ BH location) 8 µR/h

NOTES:



Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
12399	X	
11797	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**16-3**
Date Collected:	1/19/2014
GPS Location 1:	4294388.23
GPS Location 2:	722314.13

Area Bkg for Core Scan (2221/44-20): 10005 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 7 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1042	0				
2541			10941	X	
3041	-1				
3254					
3758	-2				
3744					
3849	-3				
3696					
3729	-4				
3596					
3544	-5				
3367			11607	X	
3436	-6				
3528			12251	X	X
3581	-7				
3491			11628	X	
3478	-8				
3405			11557	X	
3579	-9				
3632			11922	X	
3769	-10				
4081			13165	X	
4090	-11				
4095			12019	X	X
3966	-12				
3932			11971	X	
3887	-13				
3946			11129	X	
3398	-14				
2943					
1697	-15				
1171					
1033	-16				
851					
992	-17				
1133					
1316	-18				
1390			11642	X	
3031	-19				
3681					
4118	-20				
3891					
3535	-21				
3421					
3551	-22				
3637					
1799	-23				
1373					
1217	-24				
1163					

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**16-3**
Date Collected:	1/19/2014
GPS Location 1:	4294388.23
GPS Location 2:	722314.13

Background Reading using 44-20: 10005 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 7 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1186	-25				
1230					
1379	-26				
	-27				
	-28		9854	X	
	-29		10176	X	
	-30		9941	X	
	-31		11146	X	
	-32		10456	X	
	-33		10201	X	
	-34				
	-35				
	-36				
	-37				
	-38				
	-39				
	-40				
	-41				
	-42				
	-43				
	-44				
	-45				
	-46				
	-47				
	-48				
	-49				

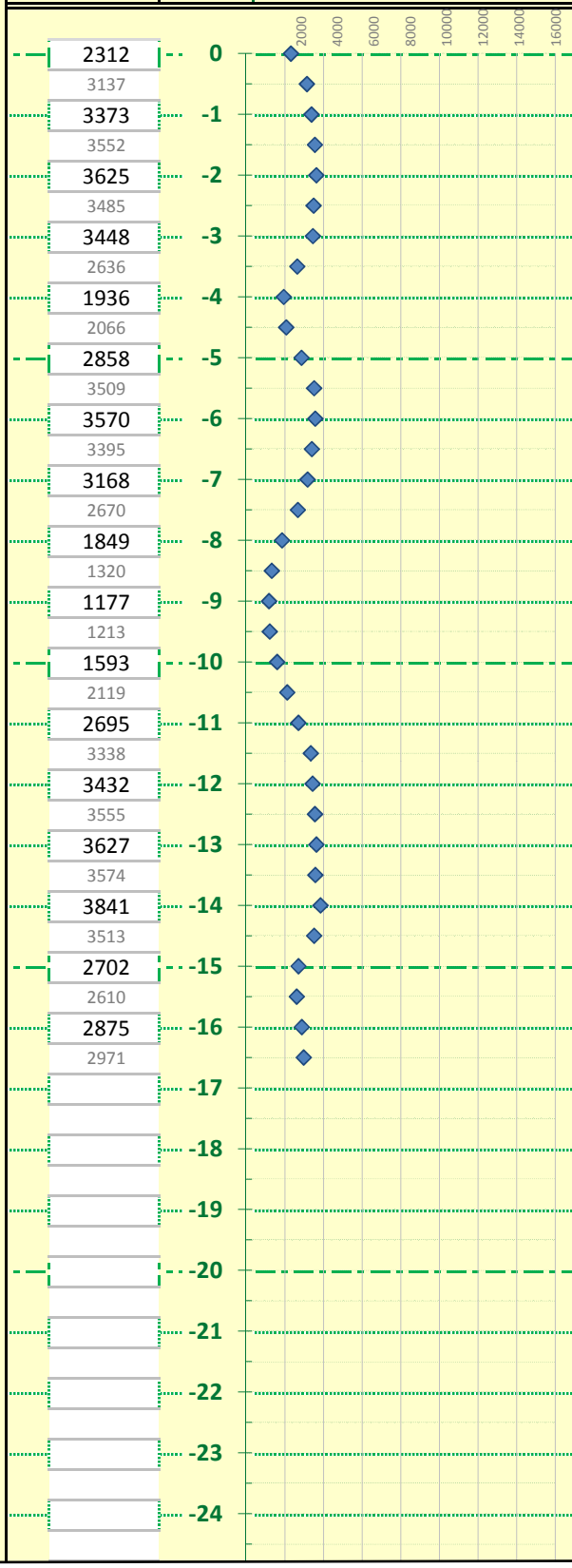
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**16-6**
Date Collected:	1/18/2014
GPS Location 1:	4294357.28
GPS Location 2:	722344.74

Area Bkg for Core Scan (2221/44-20): 10208 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
2312	0			
3137		11339	X	
3373	-1			
3552				
3625	-2			
3485				
3448	-3			
2636				
1936	-4			
2066				
2858	-5			
3509		12397	X	
3570	-6			
3395		12732	X	X
3168	-7			
2670		12003	X	
1849	-8			
1320		9624	X	
1177	-9			
1213		10894	X	
1593	-10			
2119		10474	X	
2695	-11			
3338		11410	X	
3432	-12			
3555		11362	X	
3627	-13			
3574		11031	X	
3841	-14			
3513		11677	X	
2702	-15			
2610				
2875	-16			
2971				
	-17			
	-18			
	-19			
		12229	X	
	-20			
		12672	X	
	-21			
		13051	X	X
	-22			
		12962	X	
	-23			
		11386	X	
	-24			
		10281	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**16-6**
Date Collected:	1/18/2014
GPS Location 1:	4294357.28
GPS Location 2:	722344.74

Background Reading using 44-20: 10208 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
	-25		10868	X	
	-26		11064	X	
	-27		11167	X	
	-28				
	-29		10945	X	
	-30		11057	X	
	-31		11301	X	
	-32		10642	X	
	-33		11012	X	
	-34				
	-35				
	-36				
	-37				
	-38				
	-39				
	-40				
	-41				
	-42				
	-43				
	-44				
	-45				
	-46				
	-47				
	-48				
	-49				

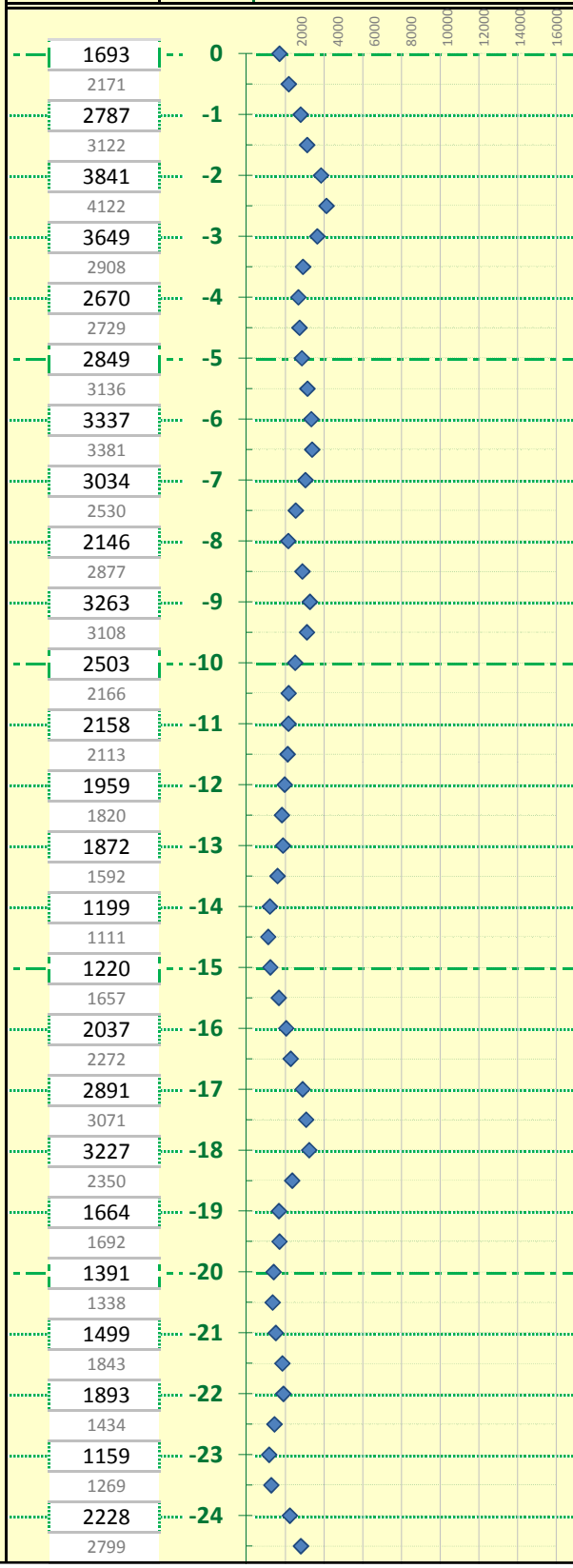
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**WL-119**
Date Collected:	1/22/2014
GPS Location 1:	4294309.15
GPS Location 2:	722151.22

Area Bkg for Core Scan (2221/44-20): 11020 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1693	0			
2171		11322	X	
2787	-1			
3122		13679	X	
3841	-2			
4122		12853	X	
3649	-3			
2908				
2670	-4			
2729		13056	X	
2849	-5			
3136		12862	X	X
3337	-6			
3381		12720	X	
3034	-7			
2530		12269	X	
2146	-8			
2877		13215	X	
3263	-9			
3108		13400	X	
2503	-10			
2166		11577	X	
2158	-11			
2113		12254	X	
1959	-12			
1820		12351	X	
1872	-13			
1592				
1199	-14			
1111				
1220	-15			
1657				
2037	-16			
2272				
2891	-17			
3071		11972	X	
3227	-18			
2350		11342	X	
1664	-19			
1692		11043	X	
1391	-20			
1338		13243	X	
1499	-21			
1843		11892	X	
1893	-22			
1434				
1159	-23			
1269				
2228	-24			
2799				

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**WL-119**
Date Collected:	1/22/2014
GPS Location 1:	4294309.15
GPS Location 2:	722151.22

Background Reading using 44-20: 11020 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
2783	-25				
2628					
2060	-26				
1424					
996	-27				
800			10191	X	
780	-28				
887			10912	X	
995	-29				
1297			11991	X	
1427	-30				
1289					
1416	-31				
2401					
5985	-32				
7941					
3230	-33				
1571					
1540	-34				
1902					
2460	-35				
2452					
1784	-36				
1563					
1500	-37				
1656			10910	X	
1663	-38				
1668			10904	X	
1592	-39				
1037			10856	X	
851	-40				
1024			12512	X	
1586	-41				
2486			12059	X	
3060	-42				
2980					
2378	-43				
1604					
1513	-44				
1000					
	-45				
	-46				
422	-47				
564			10700	X	
581	-48				
552			11033	X	
699	-49				
1013			11261	X	

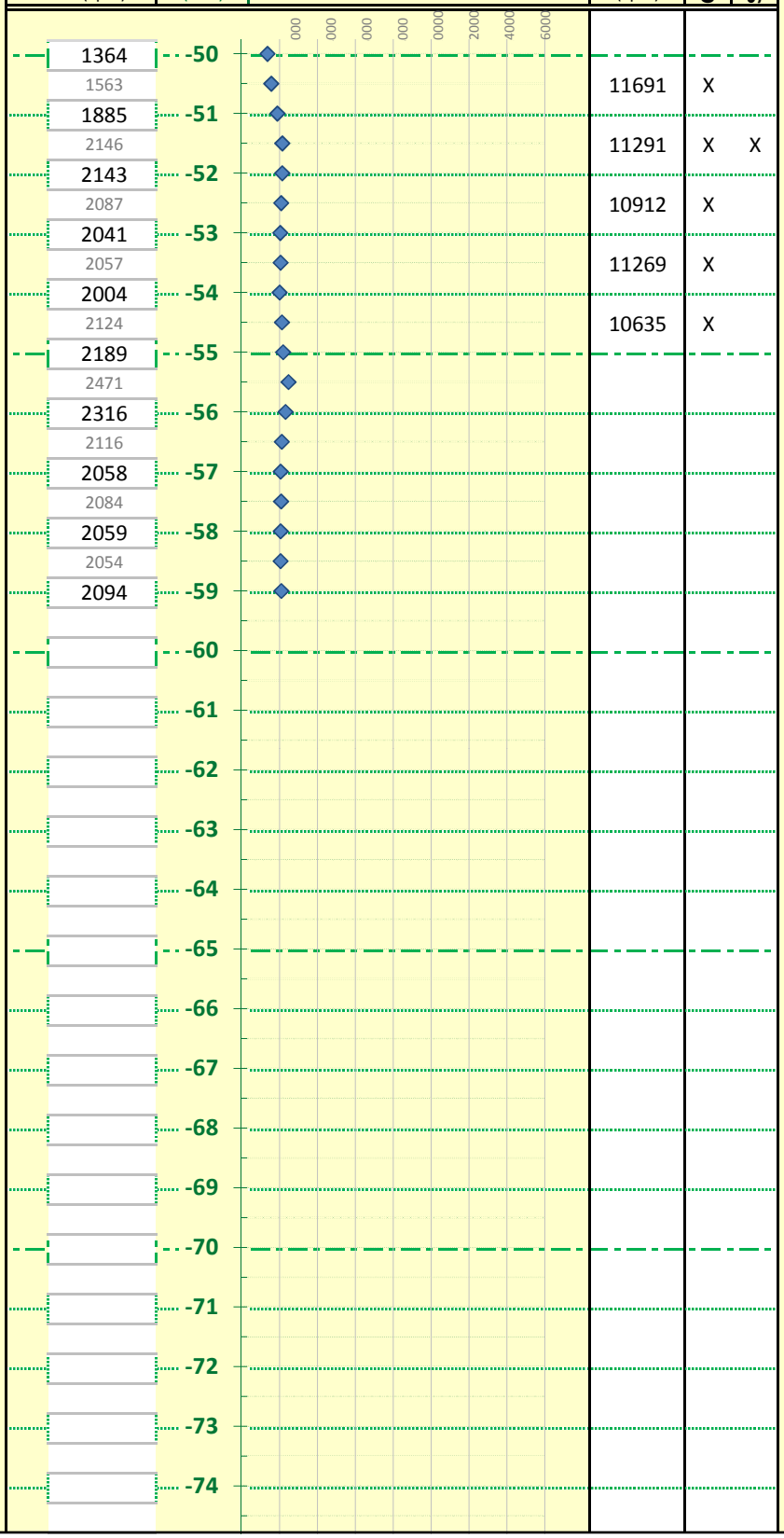
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**WL-119**
Date Collected:	1/22/2014
GPS Location 1:	4294309.15
GPS Location 2:	722151.22

Background Reading using 44-20: 11020 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 5 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
1364	-50			
1563		11691	X	
1885	-51			
2146		11291	X	X
2143	-52			
2087		10912	X	
2041	-53			
2057		11269	X	
2004	-54			
2124		10635	X	
2189	-55			
2471				
2316	-56			
2116				
2058	-57			
2084				
2059	-58			
2054				
2094	-59			
	-60			
	-61			
	-62			
	-63			
	-64			
	-65			
	-66			
	-67			
	-68			
	-69			
	-70			
	-71			
	-72			
	-73			
	-74			

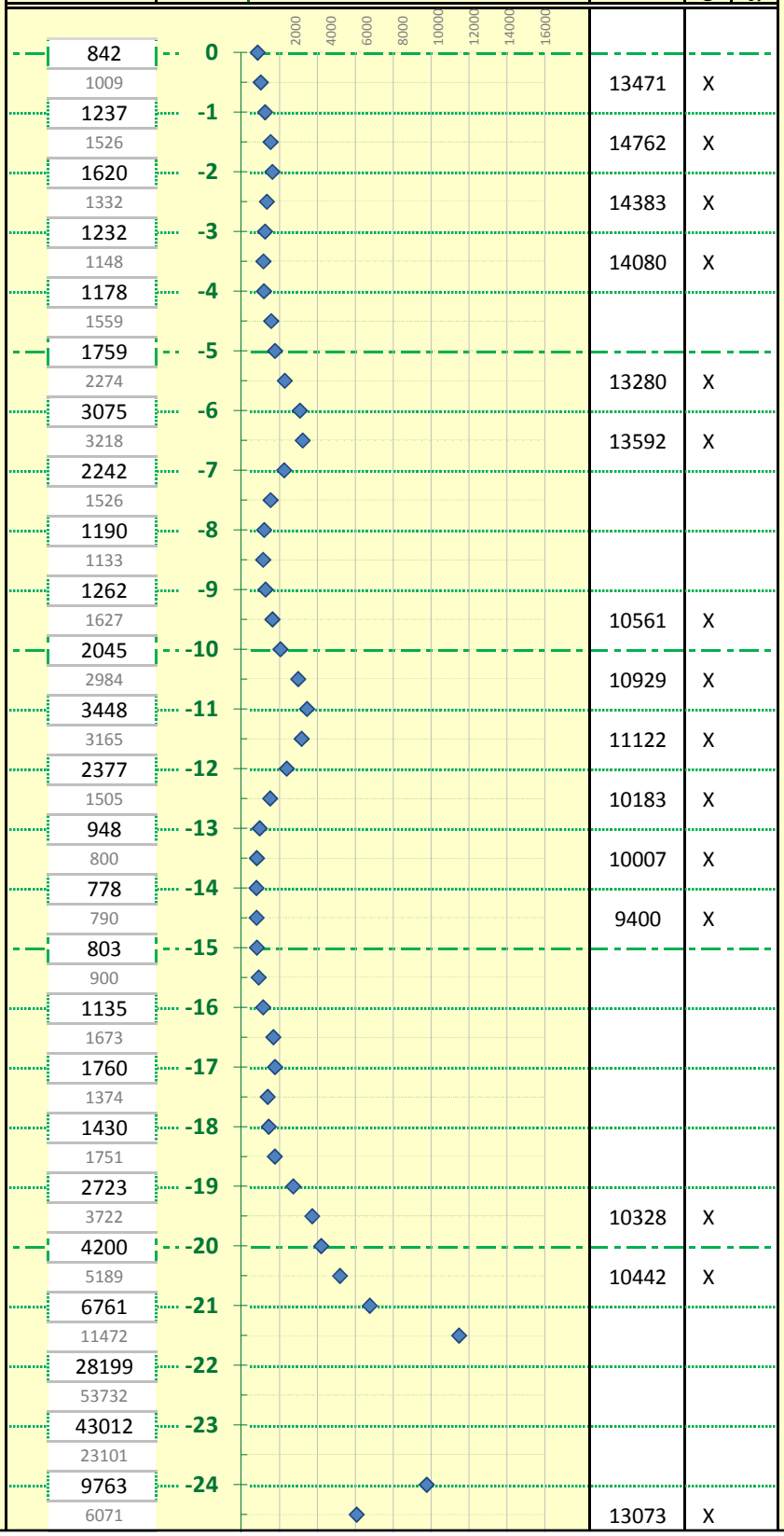
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH1C-6**
Date Collected:	2/16/2014
GPS Location 1:	4294316.37
GPS Location 2:	722293.38

Area Bkg for Core Scan (2221/44-20): 10400 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 4 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
842	0			
1009		13471	X	
1237	-1			
1526		14762	X	
1620	-2			
1332		14383	X	
1232	-3			
1148		14080	X	
1178	-4			
1559				
1759	-5			
2274		13280	X	
3075	-6			
3218		13592	X	
2242	-7			
1526				
1190	-8			
1133				
1262	-9			
1627		10561	X	
2045	-10			
2984		10929	X	
3448	-11			
3165		11122	X	
2377	-12			
1505		10183	X	
948	-13			
800		10007	X	
778	-14			
790		9400	X	
803	-15			
900				
1135	-16			
1673				
1760	-17			
1374				
1430	-18			
1751				
2723	-19			
3722		10328	X	
4200	-20			
5189		10442	X	
6761	-21			
11472				
28199	-22			
53732				
43012	-23			
23101				
9763	-24			
6071		13073	X	

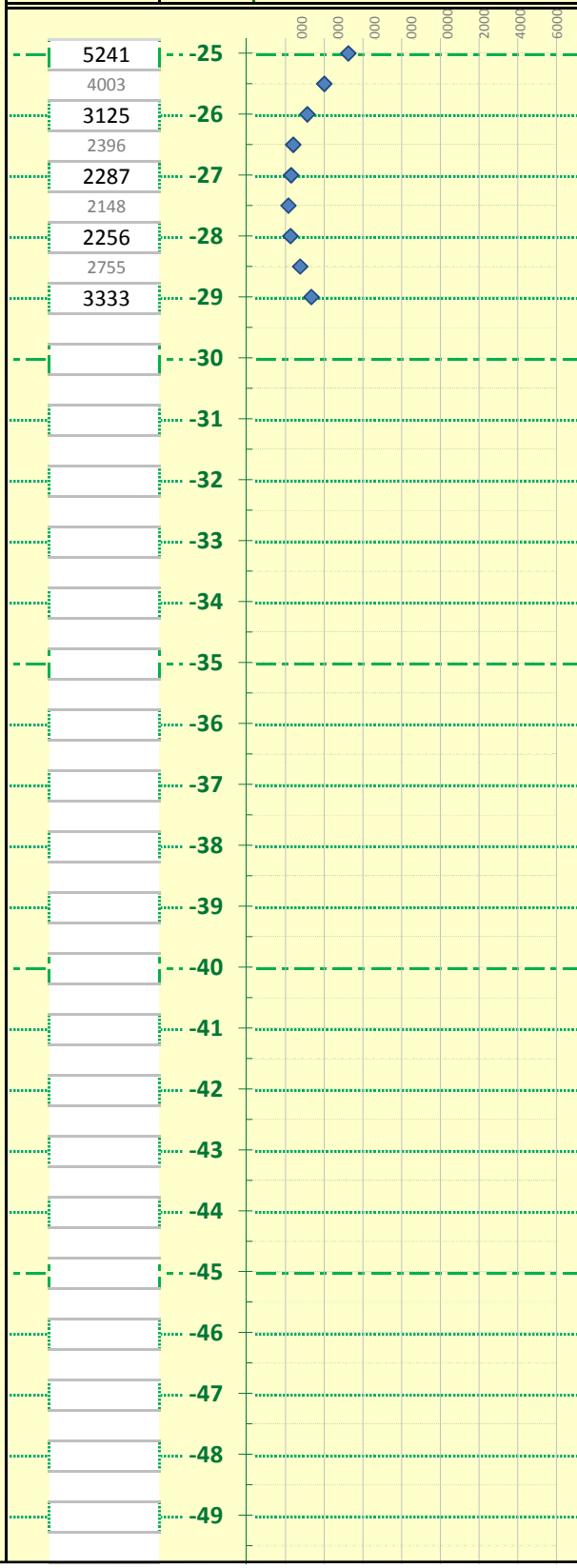
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH1C-6**
Date Collected:	2/16/2014
GPS Location 1:	4294316.37
GPS Location 2:	722293.38

Background Reading using 44-20: 10400 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 4 µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
5241	-25			
4003		11837	X	
3125	-26			
2396		15025	X	
2287	-27			
2148		10627	X	
2256	-28			
2755		10404	X	
3333	-29			
		10369	X	
	-30			
		11204	X	
	-31			
		10921	X	
	-32			
		11131	X	
	-33			
	-34			
	-35			
	-36			
	-37			
	-38			
	-39			
		11138	X	
	-40			
		11477	X	
	-41			
		11216	X	
	-42			
		11632	X	
	-43			
		11221	X	
	-44			
		10894	X	
	-45			
		11001	X	
	-46			
		10692	X	
	-47			
		10917	X	
	-48			
	-49			
		10843	X	

A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH1C-6**
Date Collected:	2/16/2014
GPS Location 1:	4294316.37
GPS Location 2:	722293.38

Background Reading using 44-20: 10400 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 4 µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
	-50				
	-51		10955	X	
	-52		10963	X	
	-53		11188	X	
	-54		11347	X	
	-55		11073	X	
	-56		10961	X	
	-57		10964	X	
	-58				
	-59				
	-60		10647	X	
	-61		10829	X	
	-62		10664	X	
	-63		11375	X	
	-64		11021	X	
	-65		11562	X	
	-66		11453	X	
	-67		11266	X	
	-68				
	-69				
	-70		10908	X	
	-71		10781	X	
	-72		11094	X	
	-73		10861	X	
	-74		10772	X	
			10670	X	

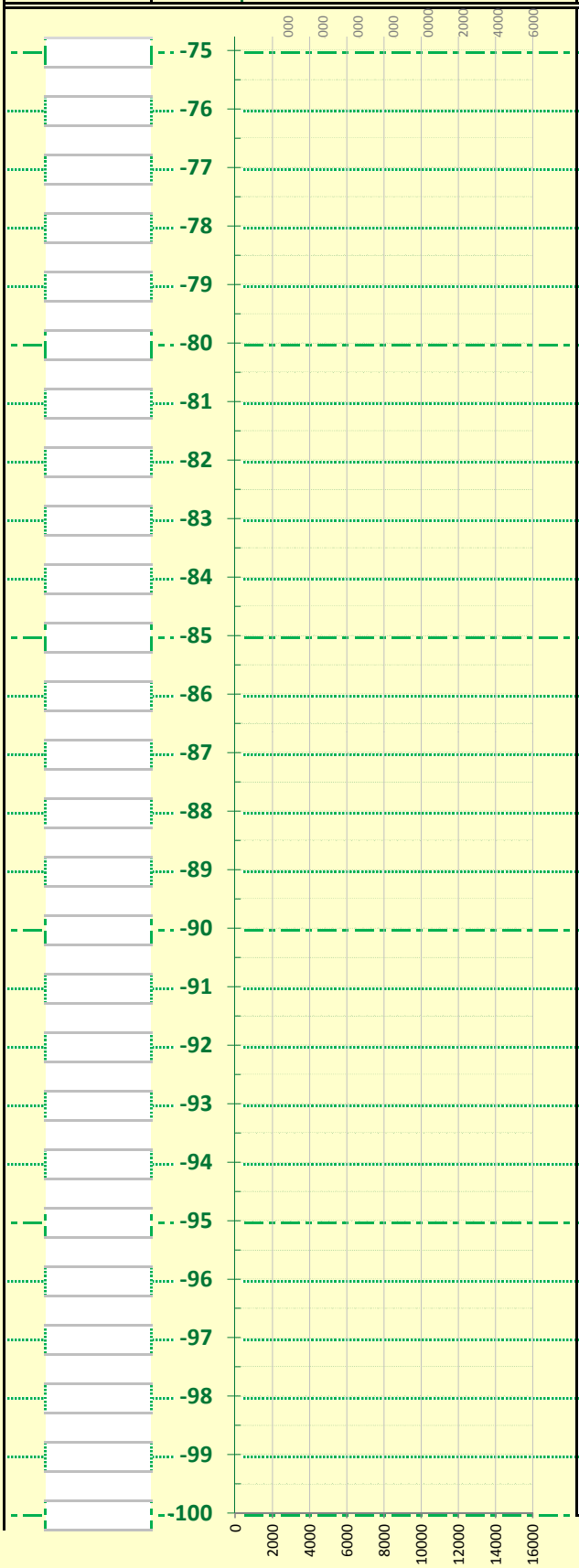
A&A BOREHOLE LOGGING REPORT (0' - 100')

Sample Core ID:	**BH1C-6**
Date Collected:	2/16/2014
GPS Location 1:	4294316.37
GPS Location 2:	722293.38

Background Reading using 44-20: 10400 cpm

Dose Reading 1 m above Surface (M19): (@ BH location) 4 µR/h

NOTES:



Core Scan 'NaI (44-2 Response (cpm)	Sample Collected	Sample Shipped
10610	X	
11173	X	
11097	X	
11154	X	
11065	X	
11437	X	
11216	X	
11074	X	
11966	X	
11801	X	
11070	X	
11128	X	
10830	X	
11181	X	

Appendix C-2:

Phase 1D Downhole Gamma and Core Scan Logs

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-01
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

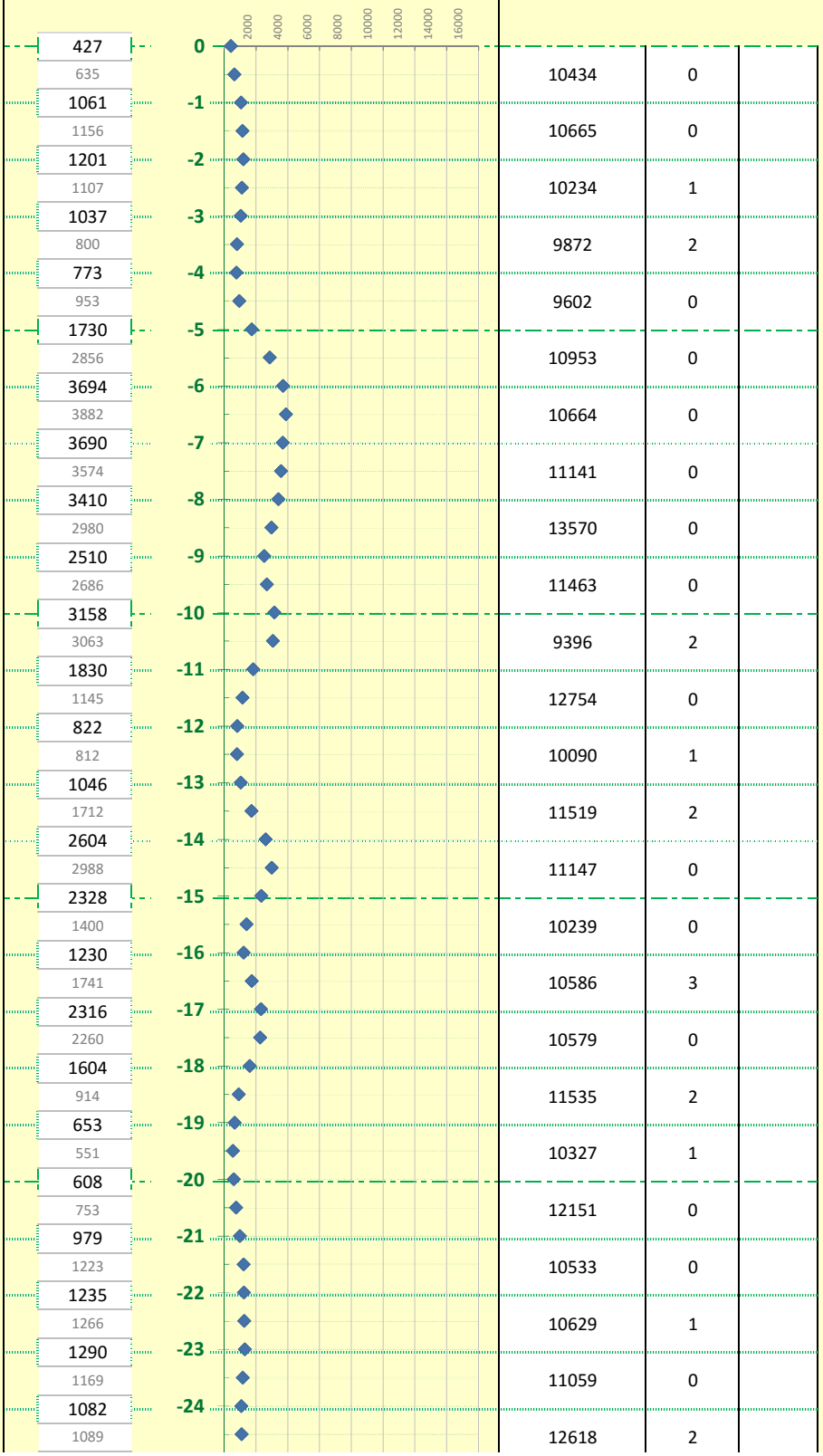
Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
427	0				
635		10434	0		
1061	-1				
1156		10665	0		
1201	-2				
1107		10234	1		
1037	-3				
800		9872	2		
773	-4				
953		9602	0		
1730	-5				
2856		10953	0		
3694	-6				
3882		10664	0		
3690	-7				
3574		11141	0		
3410	-8				
2980		13570	0		
2510	-9				
2686		11463	0		
3158	-10				
3063		9396	2		
1830	-11				
1145		12754	0		
822	-12				
812		10090	1		
1046	-13				
1712		11519	2		
2604	-14				
2988		11147	0		
2328	-15				
1400		10239	0		
1230	-16				
1741		10586	3		
2316	-17				
2260		10579	0		
1604	-18				
914		11535	2		
653	-19				
551		10327	1		
608	-20				
753		12151	0		
979	-21				
1223		10533	0		
1235	-22				
1266		10629	1		
1290	-23				
1169		11059	0		
1082	-24				
1089		12618	2		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-01**
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1248	-25					
1331			11831	1		
1506	-26					
2015			12183	2		
2021	-27					
2058			10156	0		
2334	-28					
2423			11262	0		
2157	-29					
1898			11104	1		
1724	-30					
1930			11635	0		
2111	-31					
2266			10279	3		
2855	-32					
3087			10095	0		
3049	-33					
2899			10892	1		
2531	-34					
2455			10926	0		
2200	-35					
2136			9791	0		
1934	-36					
1912			10369	0		
1880	-37					
1808			11096	0		
1964	-38					
2114			11517	0		
2166	-39					
	-40					
	-41					
	-42					
	-43					
	-44					
	-45					
	-46					
	-47					
	-48					
	-49					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-01
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-50					
	-51					
	-52					
	-53					
	-54					
	-55					
	-56					
	-57					
	-58					
	-59					
	-60					
	-61					
	-62					
	-63					
	-64					
	-65					
	-66					
	-67					
	-68					
	-69					
	-70					
	-71					
	-72					
	-73					
	-74					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-01
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-75					
	-76					
	-77					
	-78					
	-79					
	-80					
	-81					
	-82					
	-83					
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-01
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Alpha 0 cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-02**
Date Collected:	6/11/2015
GPS Location 1:	
GPS Location 2:	

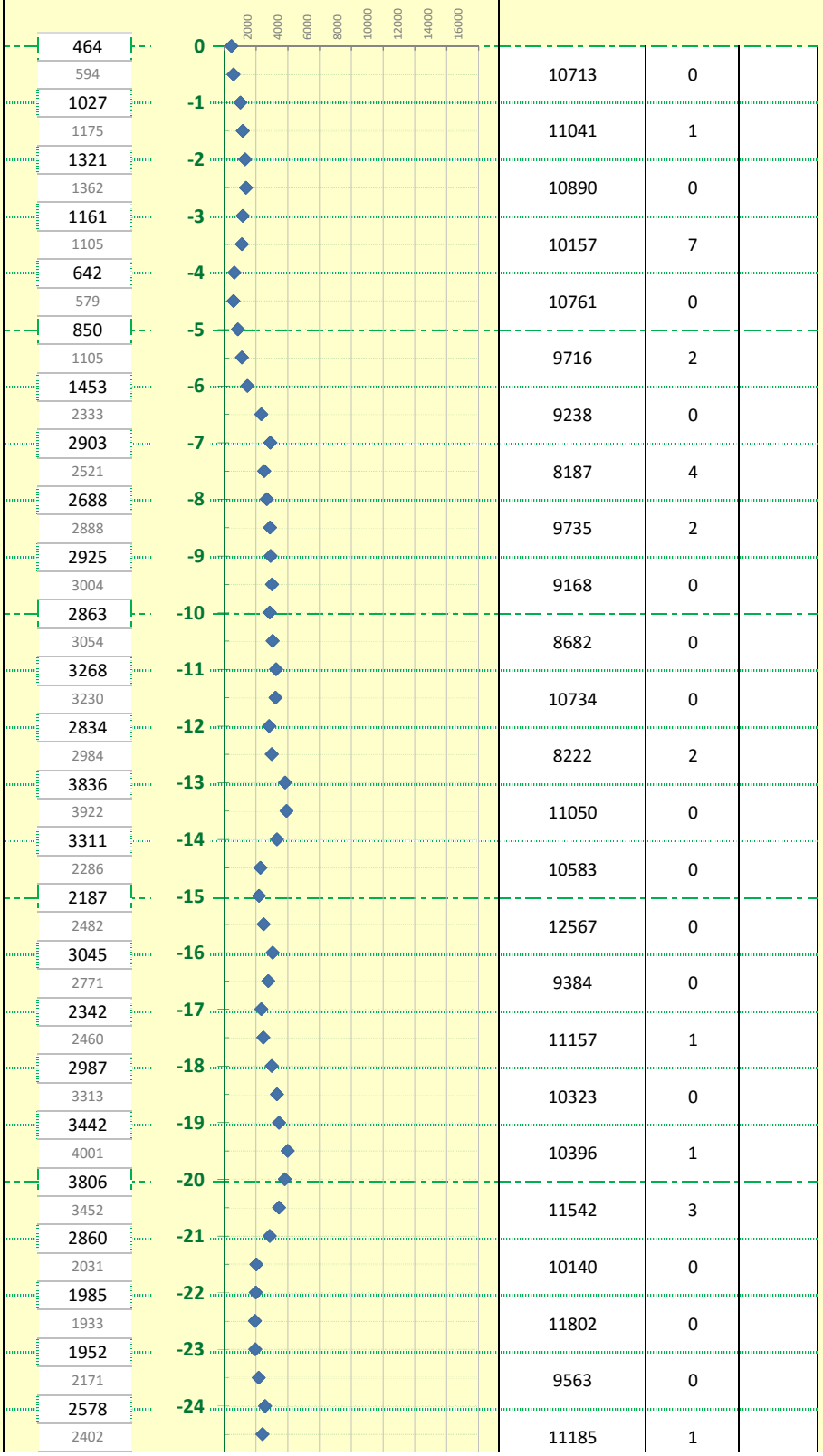
Area Bkg for Core Scan:

Gamma	9763	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
464	0				
594		10713	0		
1027	-1				
1175		11041	1		
1321	-2				
1362		10890	0		
1161	-3				
1105		10157	7		
642	-4				
579		10761	0		
850	-5				
1105		9716	2		
1453	-6				
2333		9238	0		
2903	-7				
2521		8187	4		
2688	-8				
2888		9735	2		
2925	-9				
3004		9168	0		
2863	-10				
3054		8682	0		
3268	-11				
3230		10734	0		
2834	-12				
2984		8222	2		
3836	-13				
3922		11050	0		
3311	-14				
2286		10583	0		
2187	-15				
2482		12567	0		
3045	-16				
2771		9384	0		
2342	-17				
2460		11157	1		
2987	-18				
3313		10323	0		
3442	-19				
4001		10396	1		
3806	-20				
3452		11542	3		
2860	-21				
2031		10140	0		
1985	-22				
1933		11802	0		
1952	-23				
2171		9563	0		
2578	-24				
2402		11185	1		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-02**
Date Collected:	6/11/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9763	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1624	-25					
1440			10667	0		
1204	-26					
934			10378	0		
1032	-27					
1130			10935	4		
1358	-28					
1429			10263	0		
1453	-29					
1482			11720	0		
1600	-30					
1767			10387	0		
1898	-31					
1974			9325	0		
2129	-32					
2307			9918	1		
2440	-33					
2473			10400	0		
2974	-34					
3364			10601	0		
3738	-35					
3627			10687	0		
3578	-36					
3131			13261	1		
2850	-37					
2418			10436	0		
2539	-38					
1089			11955	0		
1277	-39					
1542						
1331	-40					
	-41					
	-42					
	-43					
	-44					
	-45					
	-46					
	-47					
	-48					
	-49					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-02**
Date Collected:	6/11/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9763	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-50					
	-51					
	-52					
	-53					
	-54					
	-55					
	-56					
	-57					
	-58					
	-59					
	-60					
	-61					
	-62					
	-63					
	-64					
	-65					
	-66					
	-67					
	-68					
	-69					
	-70					
	-71					
	-72					
	-73					
	-74					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-02
Date Collected:	6/11/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9763	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Area Bkg for Core Scan:

Gamma	9763	cpm
Alpha	0	cpm

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-75	000 000 000 000 0000 2000 4000 6000				
	-76					
	-77					
	-78					
	-79					
	-80					
	-81					
	-82					
	-83					
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-02**
Date Collected:	6/11/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm
Dose Reading (M19):		
1 m Above Surface	4	µR/h
Contact	5	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-03**
Date Collected:	7/1/2015
GPS Location 1:	
GPS Location 2:	

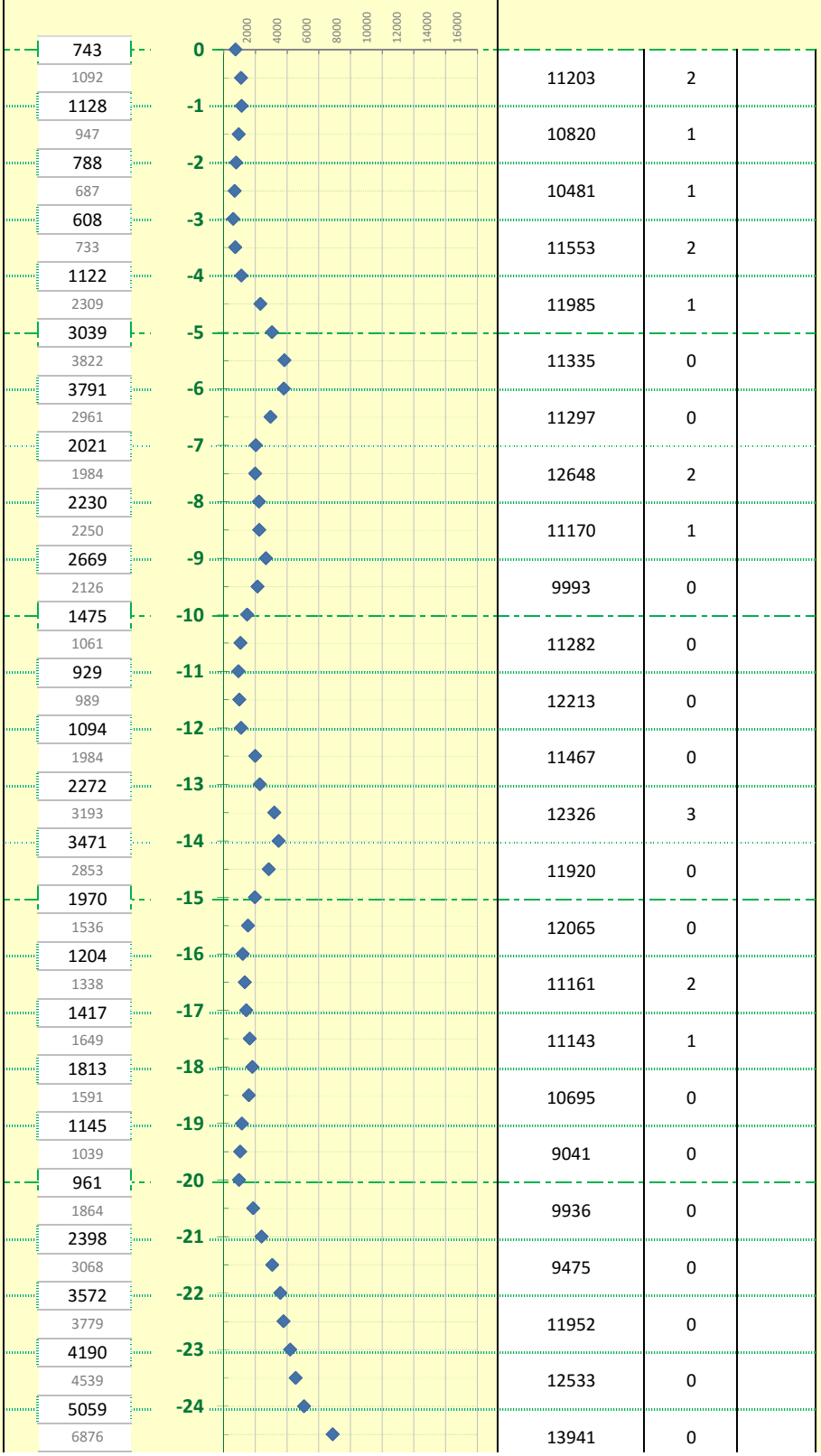
Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
743	0				
1092		11203	2		
1128	-1				
947		10820	1		
788	-2				
687		10481	1		
608	-3				
733		11553	2		
1122	-4				
2309		11985	1		
3039	-5				
3822		11335	0		
3791	-6				
2961		11297	0		
2021	-7				
1984		12648	2		
2230	-8				
2250		11170	1		
2669	-9				
2126		9993	0		
1475	-10				
1061		11282	0		
929	-11				
989		12213	0		
1094	-12				
1984		11467	0		
2272	-13				
3193		12326	3		
3471	-14				
2853		11920	0		
1970	-15				
1536		12065	0		
1204	-16				
1338		11161	2		
1417	-17				
1649		11143	1		
1813	-18				
1591		10695	0		
1145	-19				
1039		9041	0		
961	-20				
1864		9936	0		
2398	-21				
3068		9475	0		
3572	-22				
3779		11952	0		
4190	-23				
4539		12533	0		
5059	-24				
6876		13941	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-03**
Date Collected:	7/1/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

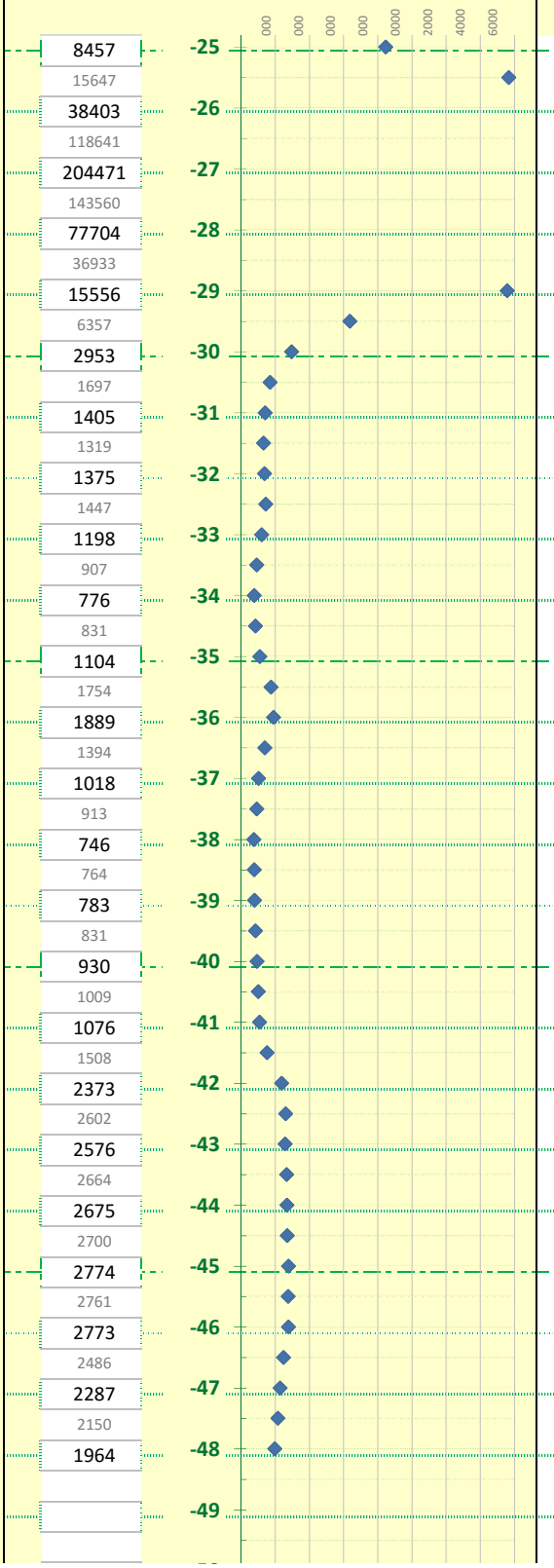
Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
8457	-25				
15647		16504	2		
38403	-26				
118641		18611	2		
204471	-27				
143560		24902	2		
77704	-28				
36933		67177	125		
15556	-29				
6357		9363	1		
2953	-30				
1697		9504	0		
1405	-31				
1319		9982	0		
1375	-32				
1447		10471	0		
1198	-33				
907		11082	0		
776	-34				
831		10736	0		
1104	-35				
1754		9230	0		
1889	-36				
1394		9180	0		
1018	-37				
913		10420	0		
746	-38				
764		10926	1		
783	-39				
831		9270	0		
930	-40				
1009		10072	0		
1076	-41				
1508		11131	1		
2373	-42				
2602		10453	1		
2576	-43				
2664		10395	2		
2675	-44				
2700		10212	1		
2774	-45				
2761		10217	0		
2773	-46				
2486		13759	2		
2287	-47				
2150		11045	0		
1964	-48				
		9876	0		
	-49				



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-03**
Date Collected:	7/1/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-50					
	-51					
	-52					
	-53					
	-54					
	-55					
	-56					
	-57					
	-58					
	-59					
	-60					
	-61					
	-62					
	-63					
	-64					
	-65					
	-66					
	-67					
	-68					
	-69					
	-70					
	-71					
	-72					
	-73					
	-74					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-03
Date Collected:	7/1/2015
GPS Location 1:	
GPS Location 2:	

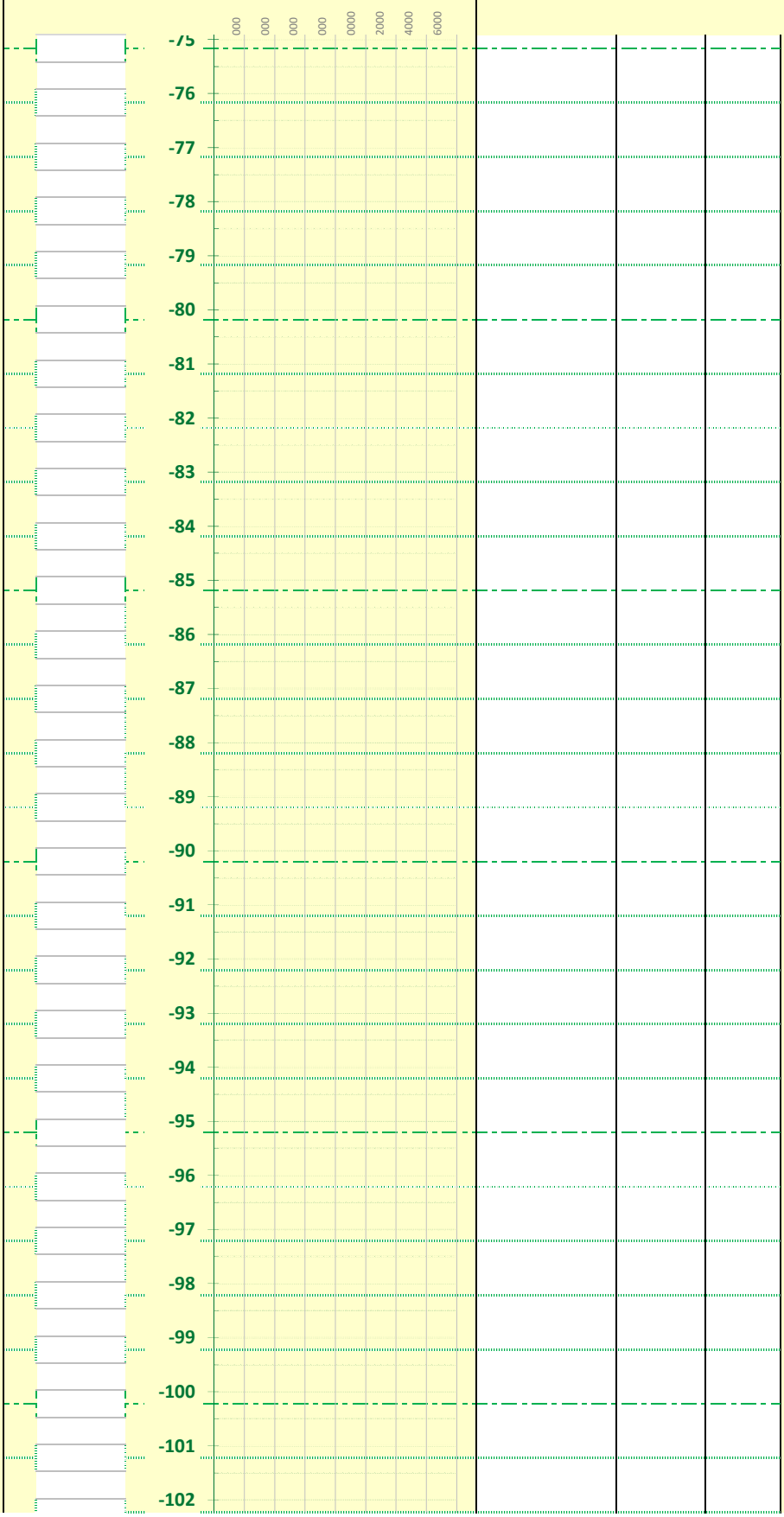
Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:



Area Bkg for Core Scan:

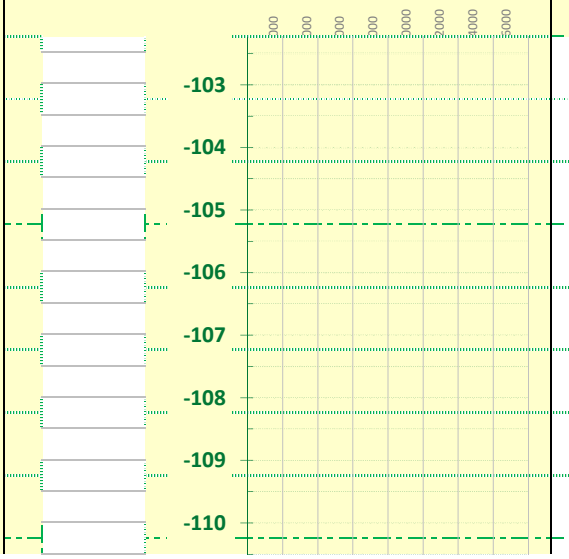
Gamma	9329	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-03
Date Collected:	7/1/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm
Dose Reading (M19):		
1 m Above Surface	5	µR/h
Contact	7	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-04**
Date Collected:	7/9/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13295	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
586	0		11309	0		
732						
943	-1		10890	0		
1360						
1727	-2		11058	1		
1798						
1361	-3		12407	1		
1218						
1504	-4		11246	1		
2411						
3828	-5		13047	0		
3908						
3710	-6		12108	0		
3673						
3223	-7		10395	1		
3065						
2880	-8		12153	1		
2342						
1515	-9		10207	2		
1325						
1321	-10		14892	0		
1830						
3053	-11		15010	1		
3831						
4264	-12		12331	1		
4349						
4221	-13		11064	0		
3788						
3705	-14		13979	3		
3292						
3019	-15		12019	0		
2674						
2034	-16		11998	0		
1943						
2002	-17		10136	1		
2697						
3166	-18		10617	2		
2815						
2526	-19		12872	0		
2416						
2951	-20		12143	1		
3258						
2564	-21		12842	1		
1750						
1394	-22		11923	0		
1548						
1897	-23		11041	1		
2281						
2537	-24		10160	0		
2630						

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-04**
Date Collected:	7/9/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13295	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2637	-25					
2134			11059	0		
1478	-26					
1376			10971	1		
1746	-27					
2047			10515	0		
1870	-28					
2228			12263	2		
3151	-29					
3741			10493	1		
3367	-30					
2248			11529	1		
1527	-31					
1153			10857	0		
1067	-32					
1581			10722	2		
2045	-33					
2327			13012	1		
2437	-34					
2395			9700	1		
1702	-35					
966			10763	0		
730	-36					
704			10647	0		
900	-37					
1366			10670	0		
1850	-38					
1825			10522	0		
1804	-39					
1538			11408	1		
1329	-40					
1549			10867	1		
1942	-41					
1748			11344	1		
1630	-42					
1636			12387	2		
1663	-43					
1742			13082	0		
1884	-44					
2009			10608	0		
2262	-45					
2285			11901	1		
2274	-46					
1763			11843	0		
1346	-47					
1389			10116	0		
1402	-48					
1636			11563	2		
1861	-49					
1652			11760	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-04**
Date Collected:	7/9/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

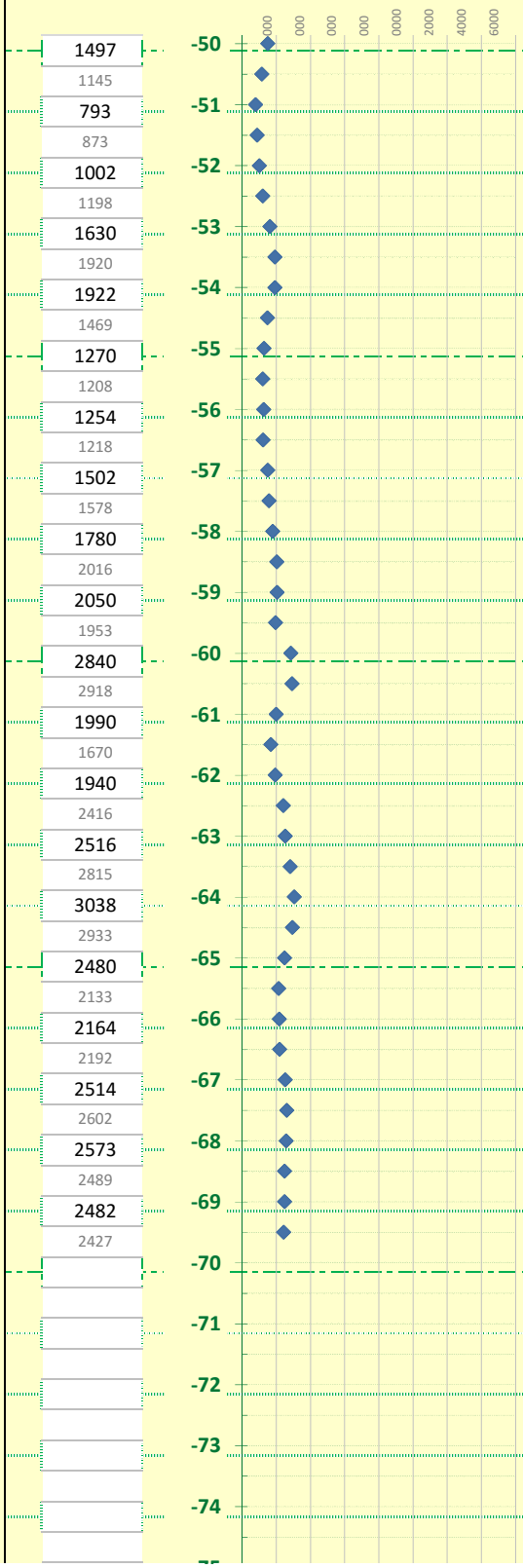
Gamma	13295	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1497	-50					
1145			12963	0		
793	-51					
873			11868	2		
1002	-52					
1198			11705	1		
1630	-53					
1920			12350	3		
1922	-54					
1469			11468	0		
1270	-55					
1208			10373	2		
1254	-56					
1218			9232	3		
1502	-57					
1578			11594	0		
1780	-58					
2016			11214	0		
2050	-59					
1953			11810	2		
2840	-60					
2918			12510	1		
1990	-61					
1670			13354	1		
1940	-62					
2416			11990	1		
2516	-63					
2815			11381	2		
3038	-64					
2933			10587	1		
2480	-65					
2133			11861	0		
2164	-66					
2192			12069	0		
2514	-67					
2602			10501	0		
2573	-68					
2489			11764	1		
2482	-69					
2427						
	-70					
	-71					
	-72					
	-73					
	-74					



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-04**
Date Collected:	7/9/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13295	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Area Bkg for Core Scan:

Gamma	13295	cpm
Alpha	1	cpm

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-75	000 000 000 000 0000 2000 4000 6000				
	-76					
	-77					
	-78					
	-79					
	-80					
	-81					
	-82					
	-83					
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-04**
Date Collected:	7/9/2015
GPS Location 1:	
GPS Location 2:	

Alpha	1	cpm
Dose Reading (M19):		
1 m Above Surface	5	µR/h
Contact	7	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-05**
Date Collected:	7/14/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10980	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	9	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
299	0					
485			11566	0		
836	-1					
1326			12417	2		
1539	-2					
1597			11836	0		
1227	-3					
1146			13214	1		
1348	-4					
2310			13650	1		
3436	-5					
3377			13870	0		
3555	-6					
3099			13398	1		
2297	-7					
1635			12382	0		
1484	-8					
1285			13079	0		
1036	-9					
1012			10747	0		
1144	-10					
1542			11438	0		
1438	-11					
1199			12513	0		
972	-12					
961			11547	0		
1433	-13					
1756			10466	1		
2322	-14					
2677			11929	0		
2102	-15					
1560			11272	0		
1629	-16					
2512			11689	1		
3848	-17					
3741			11307	1		
3463	-18					
3047			11047	0		
2851	-19					
2771			11059	0		
2212	-20					
1427			10535	0		
1373	-21					
1828			12686	0		
2205	-22					
2641			12332	1		
2361	-23					
1818			11031	0		
1756	-24					
2005			11233	1		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-05**
Date Collected:	7/14/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10980	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	9	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2176	-25					
1847			10842	2		
1874	-26					
2120			12062	0		
2524	-27					
1938			11619	0		
1484	-28					
1431			11952	0		
1780	-29					
2408			10329	0		
2528	-30					
906			10533	2		
778	-31					
651			10659	1		
749	-32					
827			10156	0		
861	-33					
879			10962	0		
1011	-34					
1356			11451	1		
1783	-35					
2192			10895	0		
2279	-36					
2116			10848	0		
2087	-37					
1966			11637	0		
2357	-38					
2242			11725	0		
2431	-39					
2342			10605	0		
2555	-40					
2441			10834	2		
2210	-41					
1814			12134	1		
1611	-42					
1488			12863	0		
1251	-43					
928			11138	0		
657	-44					
602			11040	0		
843	-45					
1475			10369	1		
2094	-46					
2182			10012	0		
2000	-47					
1383			10846	0		
849	-48					
627			12809	2		
771	-49					
623			10301	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-05**
Date Collected:	7/14/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

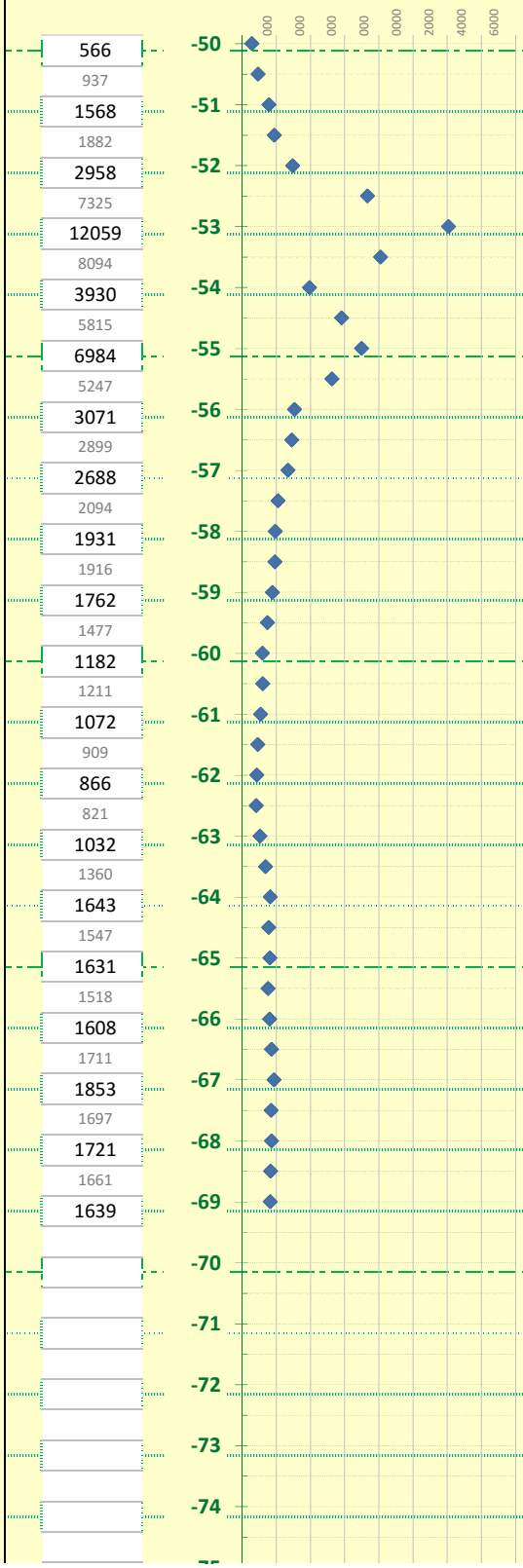
Gamma	10980	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	9	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
566	-50					
937			9436	0		
1568	-51					
1882			20707	33		
2958	-52					
7325			11993	6		
12059	-53					
8094			17223	9		
3930	-54					
5815			11199	0		
6984	-55					
5247			11388	0		
3071	-56					
2899			13385	1		
2688	-57					
2094			11919	0		
1931	-58					
1916			11303	0		
1762	-59					
1477			9630	0		
1182	-60					
1211			10014	0		
1072	-61					
909			9136	1		
866	-62					
821			9019	0		
1032	-63					
1360			10664	2		
1643	-64					
1547			11150	1		
1631	-65					
1518			10883	0		
1608	-66					
1711			12159	0		
1853	-67					
1697			11613	1		
1721	-68					
1661			11344	1		
1639	-69					
	-70					
	-71					
	-72					
	-73					
	-74					



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-05
Date Collected:	7/14/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10980	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	9	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-75					
	-76					
	-77					
	-78					
	-79					
	-80					
	-81					
	-82					
	-83					
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	10980	cpm
Alpha	1	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

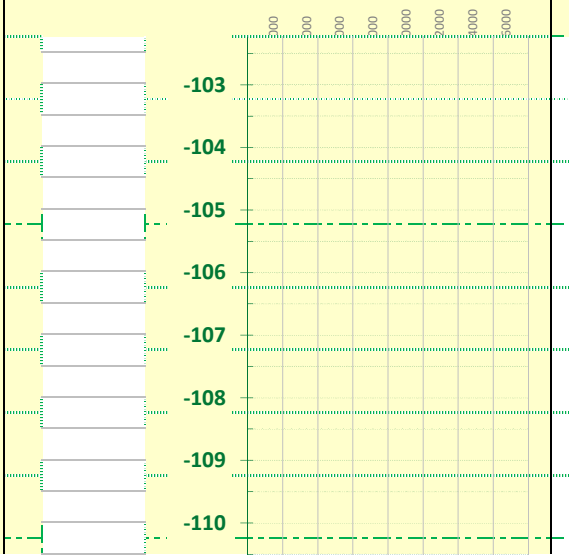
Sample Core ID:	**1D-05**
Date Collected:	7/14/2015
GPS Location 1:	
GPS Location 2:	

Alpha 1 cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	9	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-06**
Date Collected:	7/12/2015
GPS Location 1:	
GPS Location 2:	

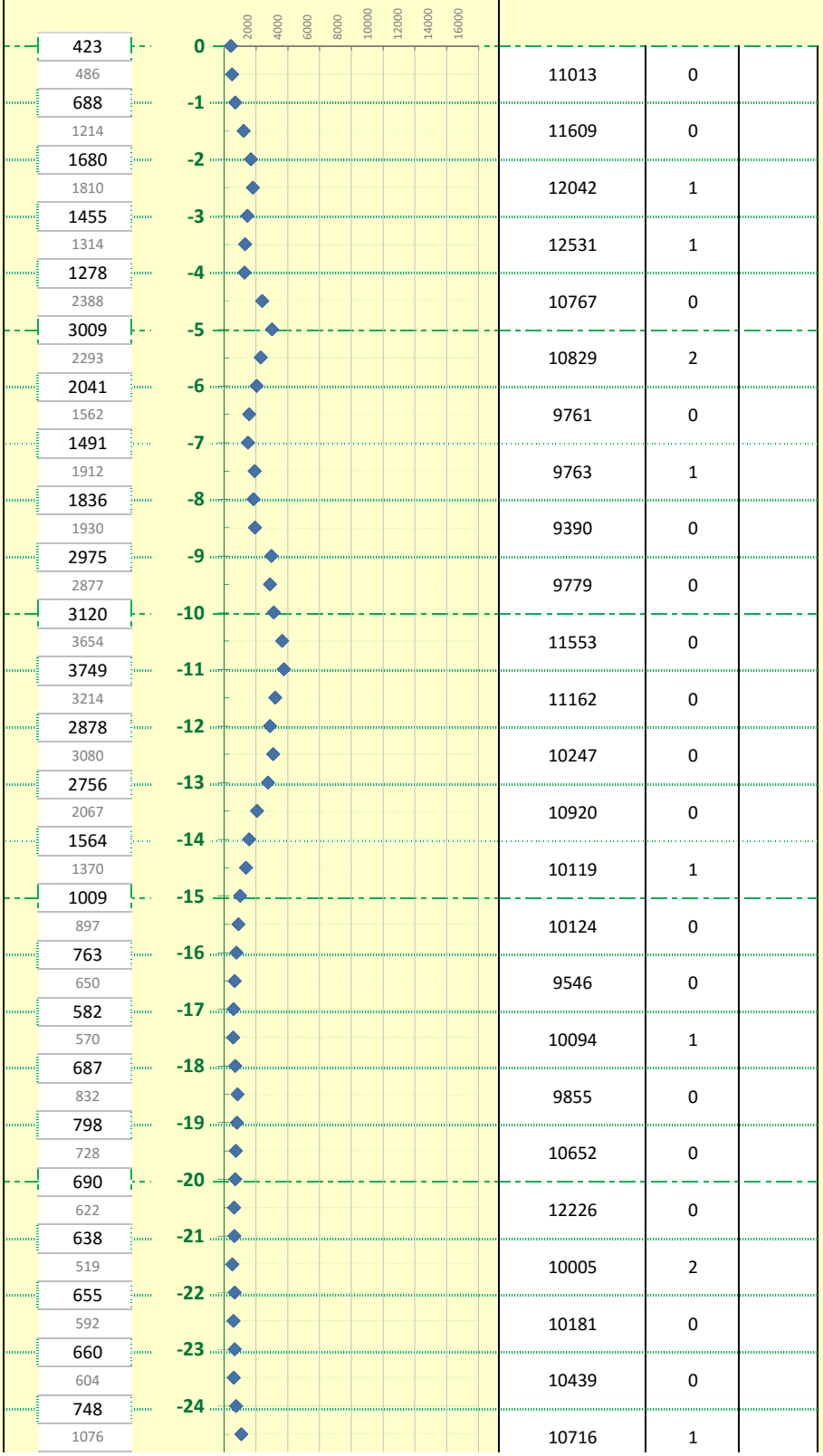
Area Bkg for Core Scan:

Gamma	13757	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	6	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
423	0				
486		11013	0		
688	-1				
1214		11609	0		
1680	-2				
1810		12042	1		
1455	-3				
1314		12531	1		
1278	-4				
2388		10767	0		
3009	-5				
2293		10829	2		
2041	-6				
1562		9761	0		
1491	-7				
1912		9763	1		
1836	-8				
1930		9390	0		
2975	-9				
2877		9779	0		
3120	-10				
3654		11553	0		
3749	-11				
3214		11162	0		
2878	-12				
3080		10247	0		
2756	-13				
2067		10920	0		
1564	-14				
1370		10119	1		
1009	-15				
897		10124	0		
763	-16				
650		9546	0		
582	-17				
570		10094	1		
687	-18				
832		9855	0		
798	-19				
728		10652	0		
690	-20				
622		12226	0		
638	-21				
519		10005	2		
655	-22				
592		10181	0		
660	-23				
604		10439	0		
748	-24				
1076		10716	1		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-06**
Date Collected:	7/12/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13757	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1159	-25					
2014			9790	0		
2158	-26					
1847			10590	1		
1530	-27					
1470			10432	1		
1347	-28					
1955			10518	0		
2566	-29					
2902			12392	0		
2002	-30					
1358			11961	0		
1014	-31					
813			9618	0		
722	-32					
673			10524	1		
783	-33					
847			10972	0		
1030	-34					
1122			10724	0		
1245	-35					
1785			11463	2		
1883	-36					
1925			11600	0		
2081	-37					
1881			11041	0		
1346	-38					
1078			10933	1		
864	-39					
794			10717	0		
890	-40					
1013			10324	0		
1340	-41					
1594			11939	1		
1909	-42					
1878			11073	2		
1583	-43					
1154			12562	0		
1088	-44					
839			11654	0		
783	-45					
873			10673	1		
1701	-46					
2068			9831	0		
2054	-47					
1935			9755	0		
2076	-48					
2016			10372	1		
1971	-49					
1995			10526	2		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-06**
Date Collected:	7/12/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13757	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1892	-50					
1677			10217	0		
1155	-51					
1103			10800	0		
866	-52					
809			11146	0		
890	-53					
1089			10544	1		
1193	-54					
1265			10767	0		
1260	-55					
1221			11702	1		
1183	-56					
990			10768	1		
798	-57					
640			9449	0		
518	-58					
488			10175	0		
628	-59					
771			10986	2		
832	-60					
1678			11591	0		
1822	-61					
1525			12335	1		
1306	-62					
1140			11922	2		
1121	-63					
1033			11026	1		
1076	-64					
999			10434	3		
1071	-65					
1257			10908	0		
1492	-66					
1384			9806	0		
1454	-67					
1692			10149	2		
1920	-68					
2070			9626	1		
2283	-69					
2566			10678	0		
3154	-70					
3025			10699	0		
3133	-71					
3200			10650	1		
3302	-72					
2970			12145	0		
2373	-73					
1782			10946	2		
1524	-74					
1310			11002	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-06
Date Collected:	7/12/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13757	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1192	-75					
1068			9593	0		
936	-76					
853			10372	1		
831	-77					
911			9972	0		
986	-78					
1052			9880	1		
976	-79					
854			10735	0		
889	-80					
974			11166	0		
1064	-81					
1040			10598	1		
1126	-82					
1006			10438	0		
1053	-83					
1071			10280	2		
1013	-84					
868			10132	0		
682	-85					
624			12818	0		
730	-86					
1173			10866	1		
1193	-87					
1257			11219	0		
1199	-88					
1174			10707	1		
1210	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	13757	cpm
Alpha	1	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-06
Date Collected:	7/12/2015
GPS Location 1:	
GPS Location 2:	
Alpha	1 cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	6	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-07**
Date Collected:	7/7/2015
GPS Location 1:	
GPS Location 2:	

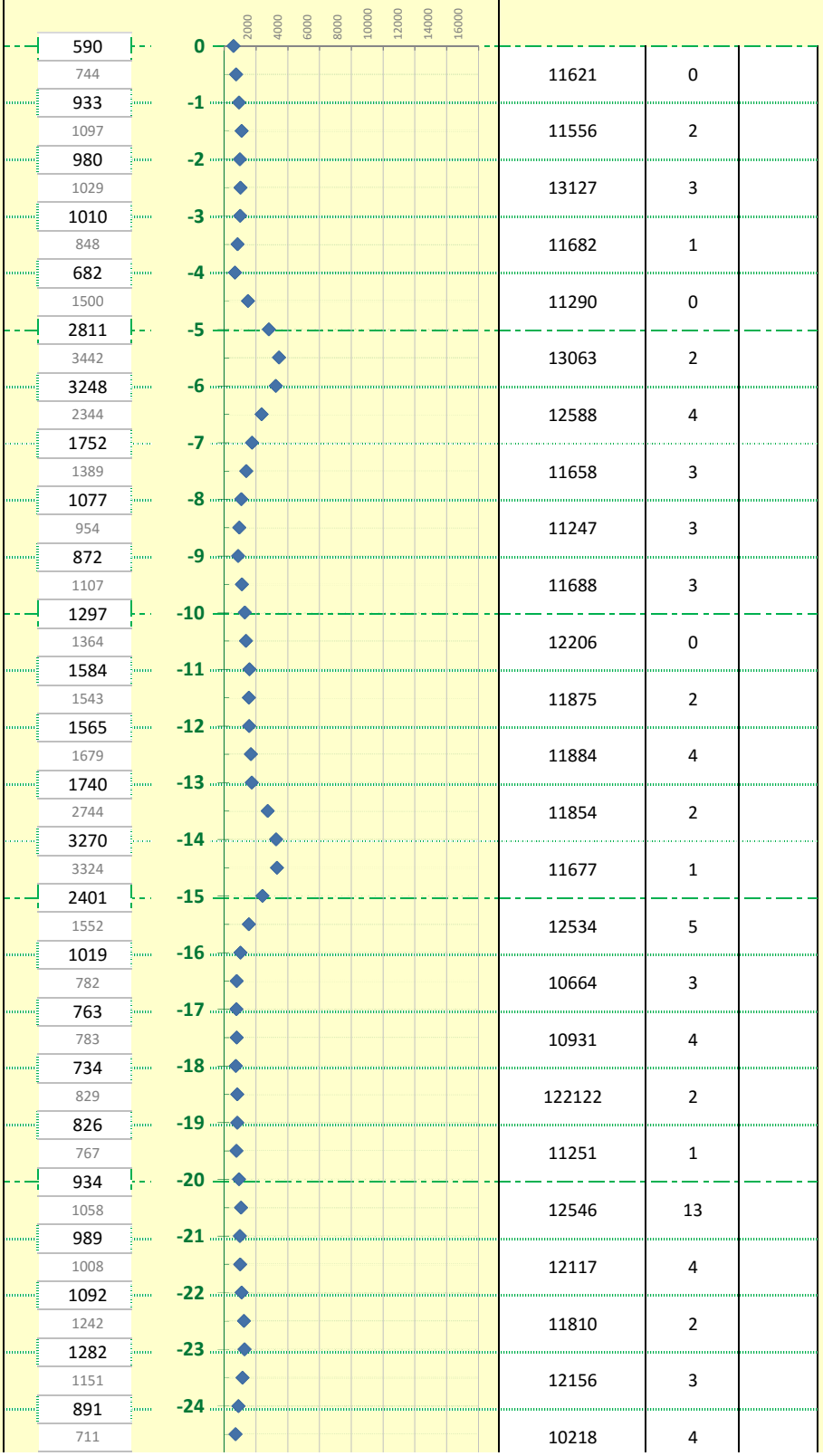
Area Bkg for Core Scan:

Gamma	13303	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
590	0				
744		11621	0		
933	-1				
1097		11556	2		
980	-2				
1029		13127	3		
1010	-3				
848		11682	1		
682	-4				
1500		11290	0		
2811	-5				
3442		13063	2		
3248	-6				
2344		12588	4		
1752	-7				
1389		11658	3		
1077	-8				
954		11247	3		
872	-9				
1107		11688	3		
1297	-10				
1364		12206	0		
1584	-11				
1543		11875	2		
1565	-12				
1679		11884	4		
1740	-13				
2744		11854	2		
3270	-14				
3324		11677	1		
2401	-15				
1552		12534	5		
1019	-16				
782		10664	3		
763	-17				
783		10931	4		
734	-18				
829		122122	2		
826	-19				
767		11251	1		
934	-20				
1058		12546	13		
989	-21				
1008		12117	4		
1092	-22				
1242		11810	2		
1282	-23				
1151		12156	3		
891	-24				
711		10218	4		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-07**
Date Collected:	7/7/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13303	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
769	-25					
694			12256	5		
600	-26					
754			11989	2		
1072	-27					
1247			11577	3		
1645	-28					
1972			11540	5		
2472	-29					
2471			14278	2		
2631	-30					
2680			13232	0		
1962	-31					
1631			13105	3		
1326	-32					
1204			13024	2		
1086	-33					
1045			11613	0		
1106	-34					
1332			11467	1		
1740	-35					
2405			12086	1		
2689	-36					
2721			12081	0		
2808	-37					
2430			13100	3		
2136	-38					
2240			10887	2		
2284	-39					
1984			12577	1		
1899	-40					
2187			13700	2		
3019	-41					
3085			15238	0		
2781	-42					
2490			11759	3		
2541	-43					
2439			12616	2		
2431	-44					
2275			13013	4		
3961	-45					
4200			12499	1		
4599	-46					
5141			13050	1		
5411	-47					
5230			14034	0		
5561	-48					
5375			13145	1		
4993	-49					
5239			11539	3		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-07**
Date Collected:	7/7/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13303	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
4794	-50					
4968			13266	1		
5047	-51					
5059			13364	2		
5127	-52					
4430			12555	1		
3613	-53					
3013			12531	4		
2824	-54					
2905			12285	0		
2823	-55					
2961			14204	0		
3228	-56					
3107			11800	2		
3081	-57					
3121			12860	0		
3057	-58					
2777			13696	1		
2383	-59					
1802			12344	2		
1249	-60					
804			12247	0		
772	-61					
709			12829	1		
591	-62					
658			11570	2		
795	-63					
881			12476	0		
990	-64					
1580			14555	0		
2186	-65					
1820			12415	1		
1648	-66					
1495			12435	0		
920	-67					
702			12402	1		
707	-68					
780			13207	0		
746	-69					
992			11898	2		
1685	-70					
1888			13383	1		
1405	-71					
907			15012	0		
719	-72					
759			14530	3		
888	-73					
780			11705	2		
774	-74					
940			13698	2		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-07**
Date Collected:	7/7/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

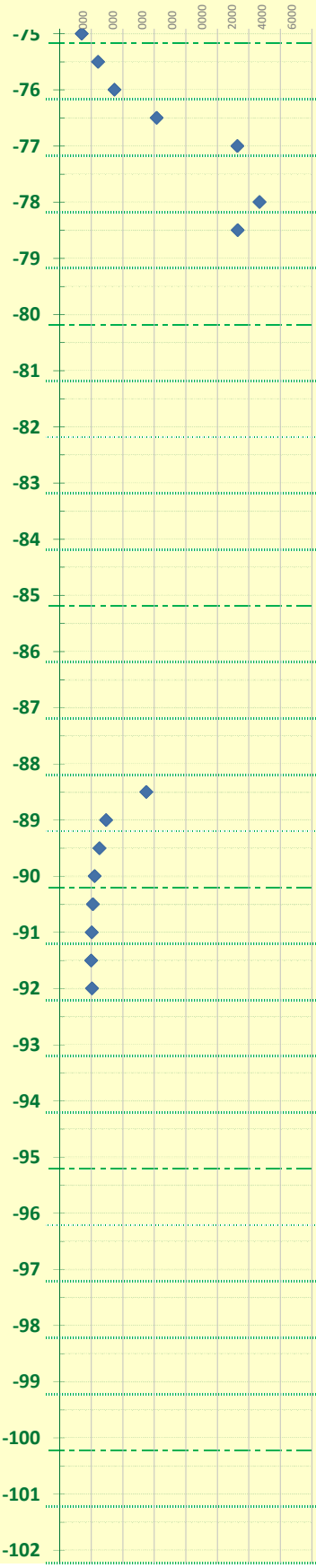
Gamma	13303	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1383	-75				
2423		12062	1		
3456	-76				
6142		14175	0		
11270	-77				
16273		15513	2		
12670	-78				
11286		13742	1		
16145	-79				
25423		30164	7		
58018	-80				
158365		68314	73		
413059	-81				
922436		379672	279		
1383710	-82				
1503082		1864247	3270		
971916	-83				
350669		1995300	3249		
86456	-84				
34479		444429	617		
48531	-85				
20458		384207	462		
31826	-86				
60144		261554	210		
83610	-87				
125661		133290	85		
30919	-88				
5493		58287	114		
2943	-89				
2520		612392	614		
2211	-90				
2093		98384	144		
2020	-91				
1983		38420	49		
2043	-92				
		32870	48		
	-93				
		13295	37		
	-94				
	-95				
	-96				
	-97				
	-98				
	-99				
	-100				
	-101				
	-102				



Area Bkg for Core Scan:

Gamma	13303	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-07**
Date Collected:	7/7/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-08**
Date Collected:	7/10/2015
GPS Location 1:	
GPS Location 2:	

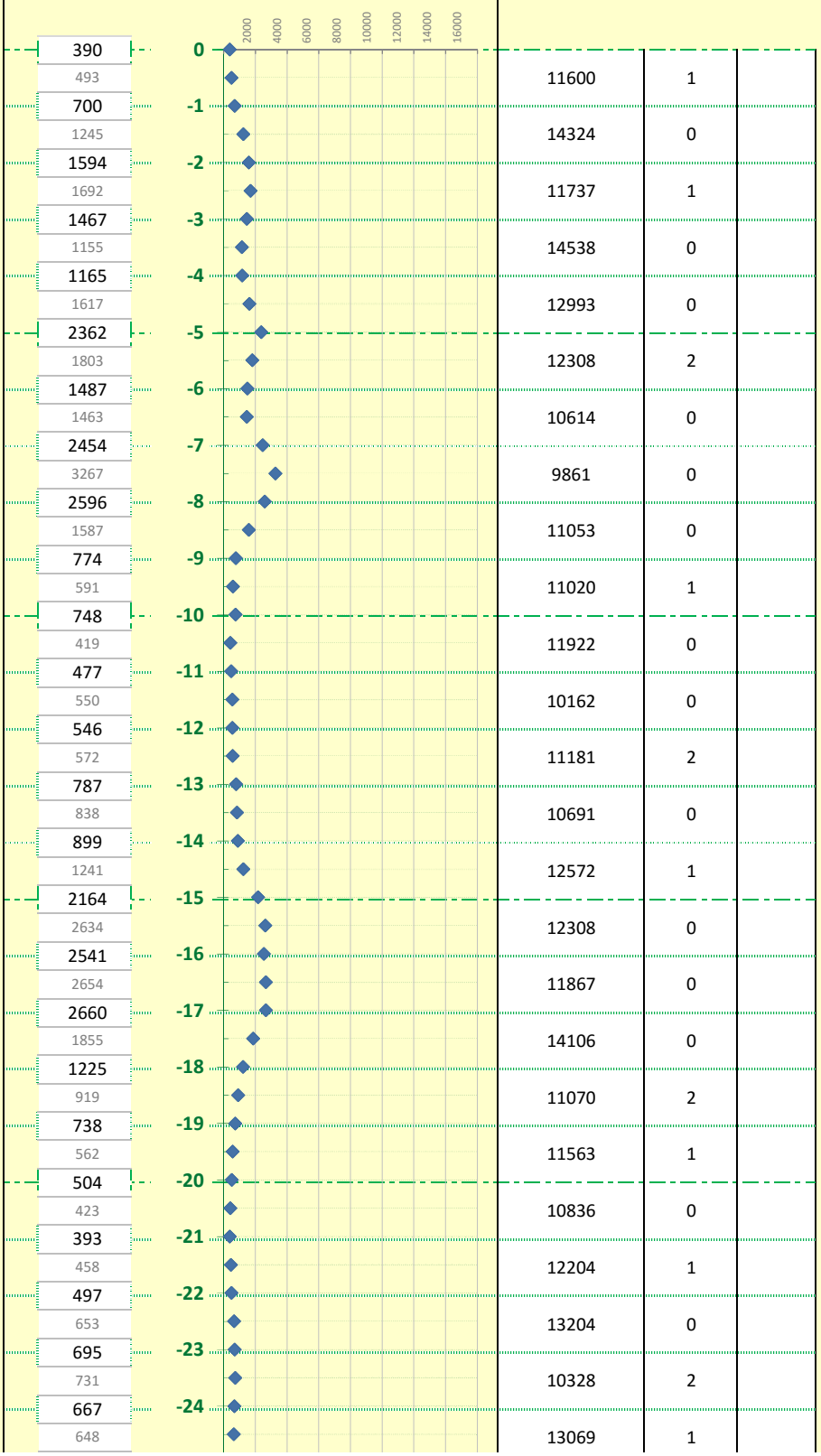
Area Bkg for Core Scan:

Gamma	13294	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
390	0				
493		11600	1		
700	-1				
1245		14324	0		
1594	-2				
1692		11737	1		
1467	-3				
1155		14538	0		
1165	-4				
1617		12993	0		
2362	-5				
1803		12308	2		
1487	-6				
1463		10614	0		
2454	-7				
3267		9861	0		
2596	-8				
1587		11053	0		
774	-9				
591		11020	1		
748	-10				
419		11922	0		
477	-11				
550		10162	0		
546	-12				
572		11181	2		
787	-13				
838		10691	0		
899	-14				
1241		12572	1		
2164	-15				
2634		12308	0		
2541	-16				
2654		11867	0		
2660	-17				
1855		14106	0		
1225	-18				
919		11070	2		
738	-19				
562		11563	1		
504	-20				
423		10836	0		
393	-21				
458		12204	1		
497	-22				
653		13204	0		
695	-23				
731		10328	2		
667	-24				
648		13069	1		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-08**
Date Collected:	7/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13294	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
633	-25				
542		10200	0		
490	-26				
501		12188	2		
476	-27				
552		10184	0		
733	-28				
906		10667	3		
1207	-29				
2146		10052	2		
2903	-30				
4343		13969	1		
4052	-31				
3506		12207	0		
2585	-32				
1942		11175	2		
1369	-33				
1211		10372	0		
970	-34				
858		10998	0		
823	-35				
654		10271	1		
633	-36				
791		12491	0		
1002	-37				
1744		10457	2		
3168	-38				
3171		10549	3		
3256	-39				
3278		11380	2		
2610	-40				
637		12536	2		
533	-41				
544		12757	0		
679	-42				
860		11101	0		
1450	-43				
1652		12660	1		
1966	-44				
2155		11970	1		
2004	-45				
1709		11907	0		
1830	-46				
2102		10859	1		
1893	-47				
1739		11482	1		
1649	-48				
1925		10446	0		
1985	-49				
1749		10165	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-08**
Date Collected:	7/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	13294	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1607	-50					
1868			10554	0		
2098	-51					
2163			10578	1		
2796	-52					
2883			10776	1		
2940	-53					
2605			11769	2		
2179	-54					
1828			13413	0		
1427	-55					
1387			11922	1		
1550	-56					
1252			9811	2		
1018	-57					
1121			9334	0		
1290	-58					
1683			10587	1		
2249	-59					
2666			11274	0		
2504	-60					
2312			12912	1		
2498	-61					
2391			11914	1		
1995	-62					
1635			12911	1		
1862	-63					
2341			10801	1		
2779	-64					
2404			10225	0		
2540	-65					
2428			13145	1		
2817	-66					
2650			10357	0		
2130	-67					
1811			10990	0		
1581	-68					
1475			9965	0		
1505	-69					
1773			10171	0		
2056	-70					
2372			13135	2		
2313	-71					
2139			10997	1		
3057	-72					
6402			12897	4		
6869	-73					
4956			10258	0		
3041	-74					
2159			13728	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-08
Date Collected:	7/10/2015
GPS Location 1:	
GPS Location 2:	

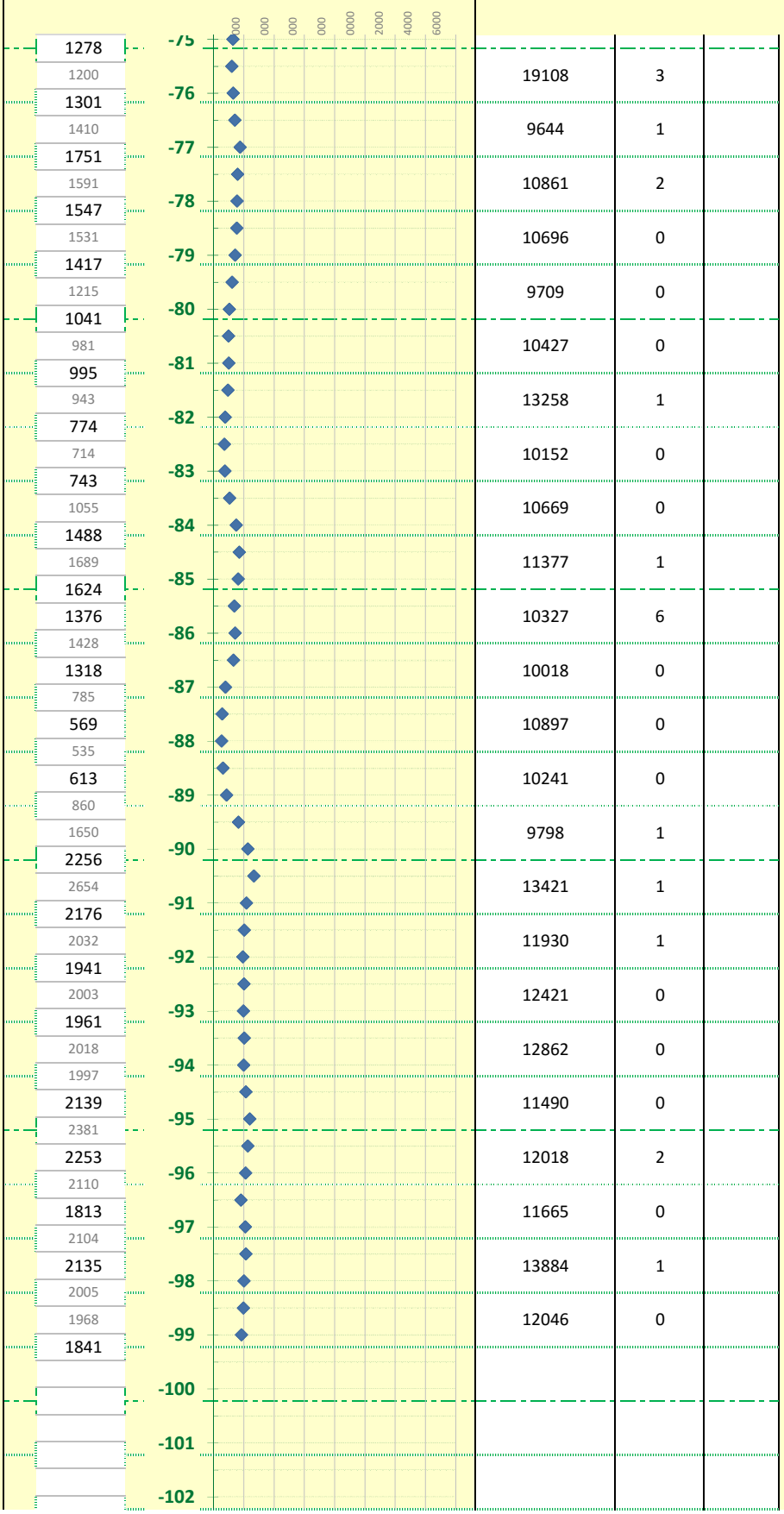
Area Bkg for Core Scan:

Gamma	13294	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	5	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1278	-75				
1200		19108	3		
1301	-76				
1410		9644	1		
1751	-77				
1591		10861	2		
1547	-78				
1531		10696	0		
1417	-79				
1215		9709	0		
1041	-80				
981		10427	0		
995	-81				
943		13258	1		
774	-82				
714		10152	0		
743	-83				
1055		10669	0		
1488	-84				
1689		11377	1		
1624	-85				
1376		10327	6		
1428	-86				
1318		10018	0		
785	-87				
569		10897	0		
535	-88				
613		10241	0		
860	-89				
1650		9798	1		
2256	-90				
2654		13421	1		
2176	-91				
2032		11930	1		
1941	-92				
2003		12421	0		
1961	-93				
2018		12862	0		
1997	-94				
2139		11490	0		
2381	-95				
2253		12018	2		
2110	-96				
1813		11665	0		
2104	-97				
2135		13884	1		
2005	-98				
1968		12046	0		
1841	-99				
	-100				
	-101				
	-102				

Area Bkg for Core Scan:

Gamma	13294	cpm
Alpha	1	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-08**
Date Collected:	7/10/2015
GPS Location 1:	
GPS Location 2:	

Alpha	1	cpm
Dose Reading (M19):		
1 m Above Surface	5	µR/h
Contact	5	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-09
Date Collected:	6/8/2015
GPS Location 1:	
GPS Location 2:	

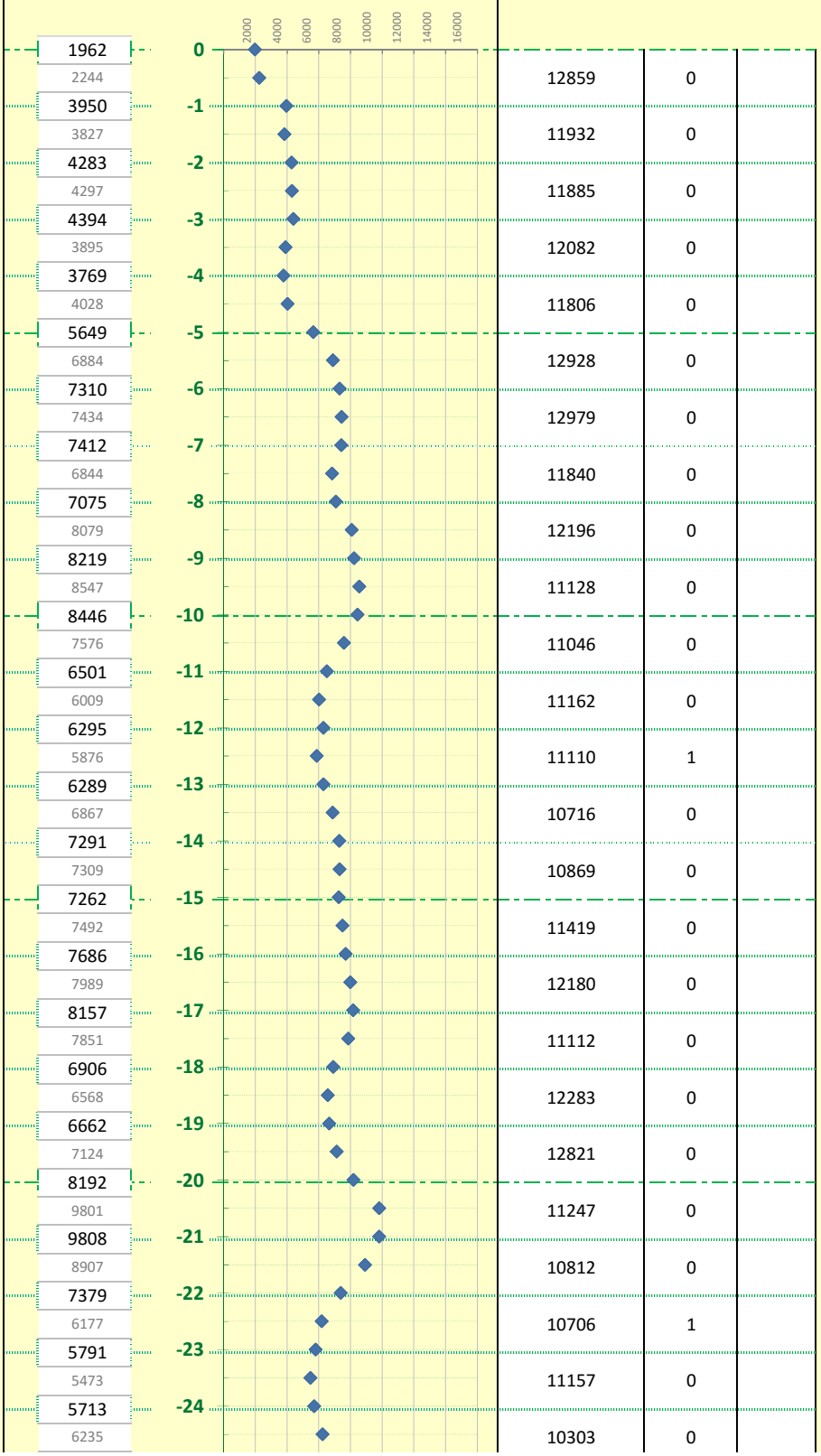
Area Bkg for Core Scan:

Gamma	9156	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1962	0	12859	0		
2244					
3950	-1	11932	0		
3827					
4283	-2	11885	0		
4297					
4394	-3	12082	0		
3895					
3769	-4	11806	0		
4028					
5649	-5	12928	0		
6884					
7310	-6	12979	0		
7434					
7412	-7	11840	0		
6844					
7075	-8	12196	0		
8079					
8219	-9	11128	0		
8547					
8446	-10	11046	0		
7576					
6501	-11	11162	0		
6009					
6295	-12	11110	1		
5876					
6289	-13	10716	0		
6867					
7291	-14	10869	0		
7309					
7262	-15	11419	0		
7492					
7686	-16	12180	0		
7989					
8157	-17	11112	0		
7851					
6906	-18	12283	0		
6568					
6662	-19	12821	0		
7124					
8192	-20	11247	0		
9801					
9808	-21	10812	0		
8907					
7379	-22	10706	1		
6177					
5791	-23	11157	0		
5473					
5713	-24	10303	0		
6235					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-09**
Date Collected:	6/8/2015
GPS Location 1:	
GPS Location 2:	

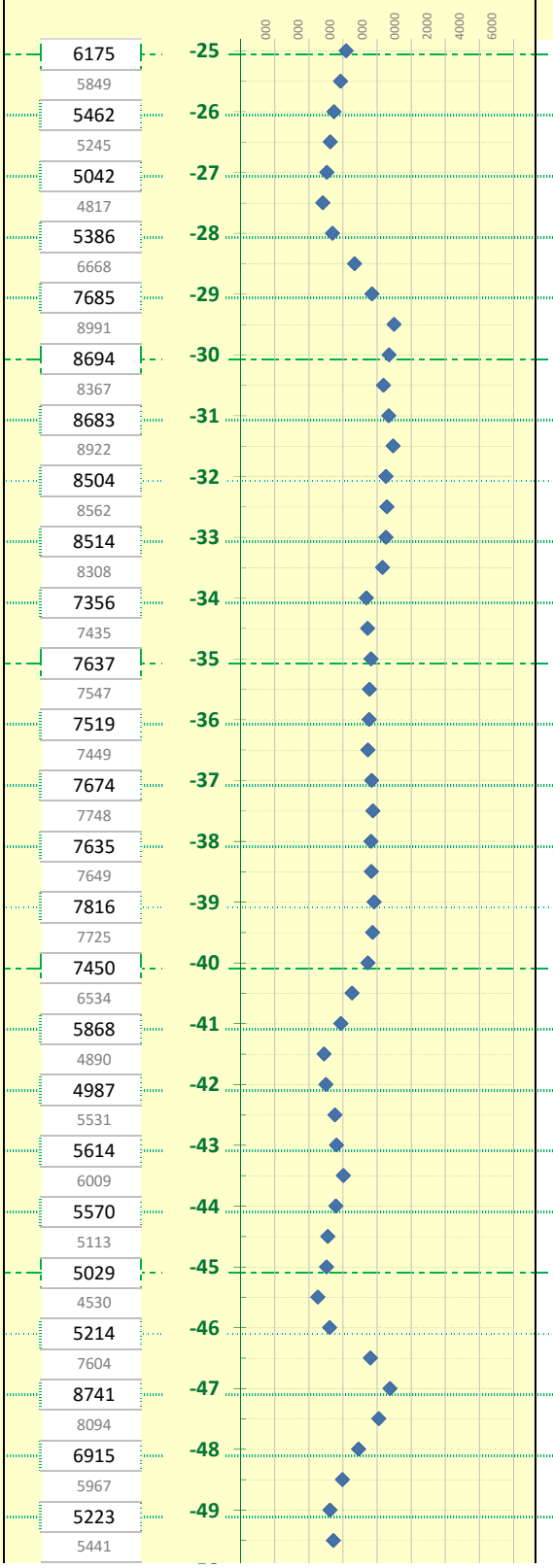
Area Bkg for Core Scan:

Gamma	9156	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
6175	-25				
5849		10965	0		
5462	-26				
5245		9353	1		
5042	-27				
4817		9944	0		
5386	-28				
6668		9200	1		
7685	-29				
8991		11335	0		
8694	-30				
8367		13259	0		
8683	-31				
8922		12963	1		
8504	-32				
8562		12718	0		
8514	-33				
8308		12840	0		
7356	-34				
7435		11416	0		
7637	-35				
7547		13320	0		
7519	-36				
7449		11649	0		
7674	-37				
7748		11544	0		
7635	-38				
7649		11107	0		
7816	-39				
7725		10928	0		
7450	-40				
6534		11867	1		
5868	-41				
4890		11747	0		
4987	-42				
5531		12170	0		
5614	-43				
6009		12451	0		
5570	-44				
5113		11680	0		
5029	-45				
4530		11911	0		
5214	-46				
7604		12446	0		
8741	-47				
8094		11236	1		
6915	-48				
5967		11387	0		
5223	-49				
5441		NR			

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-09**
Date Collected:	6/8/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9156	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
6461	-50					
6268			NR			
6995	-51					
8417			NR			
8461	-52					
9301			NR			
9783	-53					
10766			NR			
10243	-54					
9850			NR			
10968	-55					
10087			NR			
9033	-56					
9185			NR			
10718	-57					
10842			NR			
5829	-58					
8231			NR			
7074	-59					
9430			NR			
10579	-60					
8249			NR			
6832	-61					
5871			NR			
5701	-62					
6277			NR			
6260	-63					
6301			NR			
6354	-64					
6863			NR			
6200	-65					
6006			NR			
6311	-66					
6981			NR			
8720	-67					
7657			NR			
7362	-68					
8411			NR			
9889	-69					
12685			10514	0		
12956	-70					
14842			10330	1		
15834	-71					
16313			11301	0		
14857	-72					
10831			11853	0		
8780	-73					
9276			11440	3		
7744	-74					
7139			10375	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-09**
Date Collected:	6/8/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

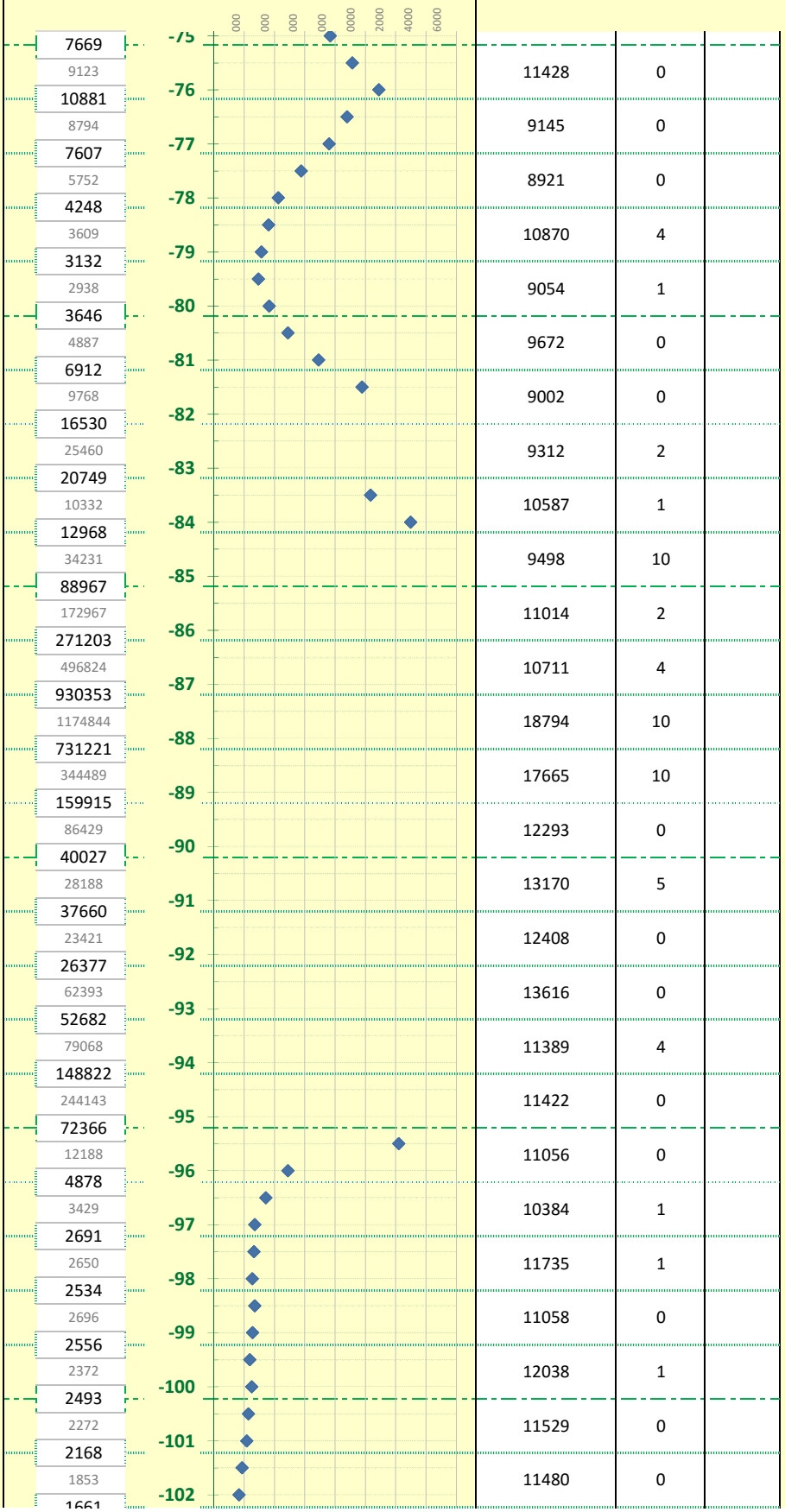
Gamma	9156	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
7669	-75				
9123		11428	0		
10881	-76				
8794		9145	0		
7607	-77				
5752		8921	0		
4248	-78				
3609		10870	4		
3132	-79				
2938		9054	1		
3646	-80				
4887		9672	0		
6912	-81				
9768		9002	0		
16530	-82				
25460		9312	2		
20749	-83				
10332		10587	1		
12968	-84				
34231		9498	10		
88967	-85				
172967		11014	2		
271203	-86				
496824		10711	4		
930353	-87				
1174844		18794	10		
731221	-88				
344489		17665	10		
159915	-89				
86429		12293	0		
40027	-90				
28188		13170	5		
37660	-91				
23421		12408	0		
26377	-92				
62393		13616	0		
52682	-93				
79068		11389	4		
148822	-94				
244143		11422	0		
72366	-95				
12188		11056	0		
4878	-96				
3429		10384	1		
2691	-97				
2650		11735	1		
2534	-98				
2696		11058	0		
2556	-99				
2372		12038	1		
2493	-100				
2272		11529	0		
2168	-101				
1853		11480	0		
1661	-102				



Area Bkg for Core Scan:

Gamma	9156	cpm
Alpha	1	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-09**
Date Collected:	6/8/2015
GPS Location 1:	
GPS Location 2:	

Alpha	1	cpm
Dose Reading (M19):		
1 m Above Surface	5	µR/h
Contact	7	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1001						
	-103		11105	0		
	-104		12293	0		
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-10**
Date Collected:	6/29/2015
GPS Location 1:	
GPS Location 2:	

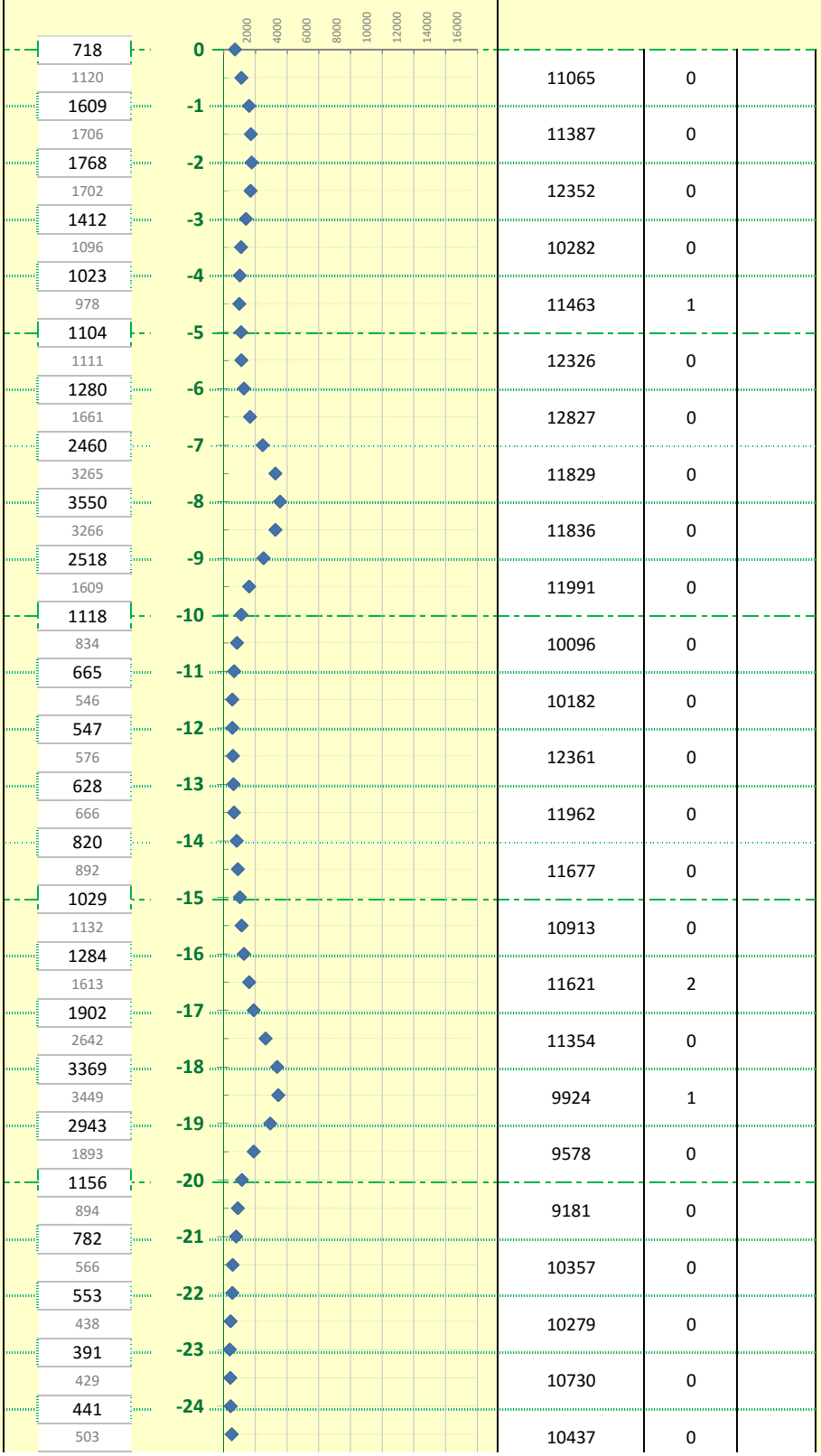
Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
718	0				
1120		11065	0		
1609	-1				
1706		11387	0		
1768	-2				
1702		12352	0		
1412	-3				
1096		10282	0		
1023	-4				
978		11463	1		
1104	-5				
1111		12326	0		
1280	-6				
1661		12827	0		
2460	-7				
3265		11829	0		
3550	-8				
3266		11836	0		
2518	-9				
1609		11991	0		
1118	-10				
834		10096	0		
665	-11				
546		10182	0		
547	-12				
576		12361	0		
628	-13				
666		11962	0		
820	-14				
892		11677	0		
1029	-15				
1132		10913	0		
1284	-16				
1613		11621	2		
1902	-17				
2642		11354	0		
3369	-18				
3449		9924	1		
2943	-19				
1893		9578	0		
1156	-20				
894		9181	0		
782	-21				
566		10357	0		
553	-22				
438		10279	0		
391	-23				
429		10730	0		
441	-24				
503		10437	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-10**
Date Collected:	6/29/2015
GPS Location 1:	
GPS Location 2:	

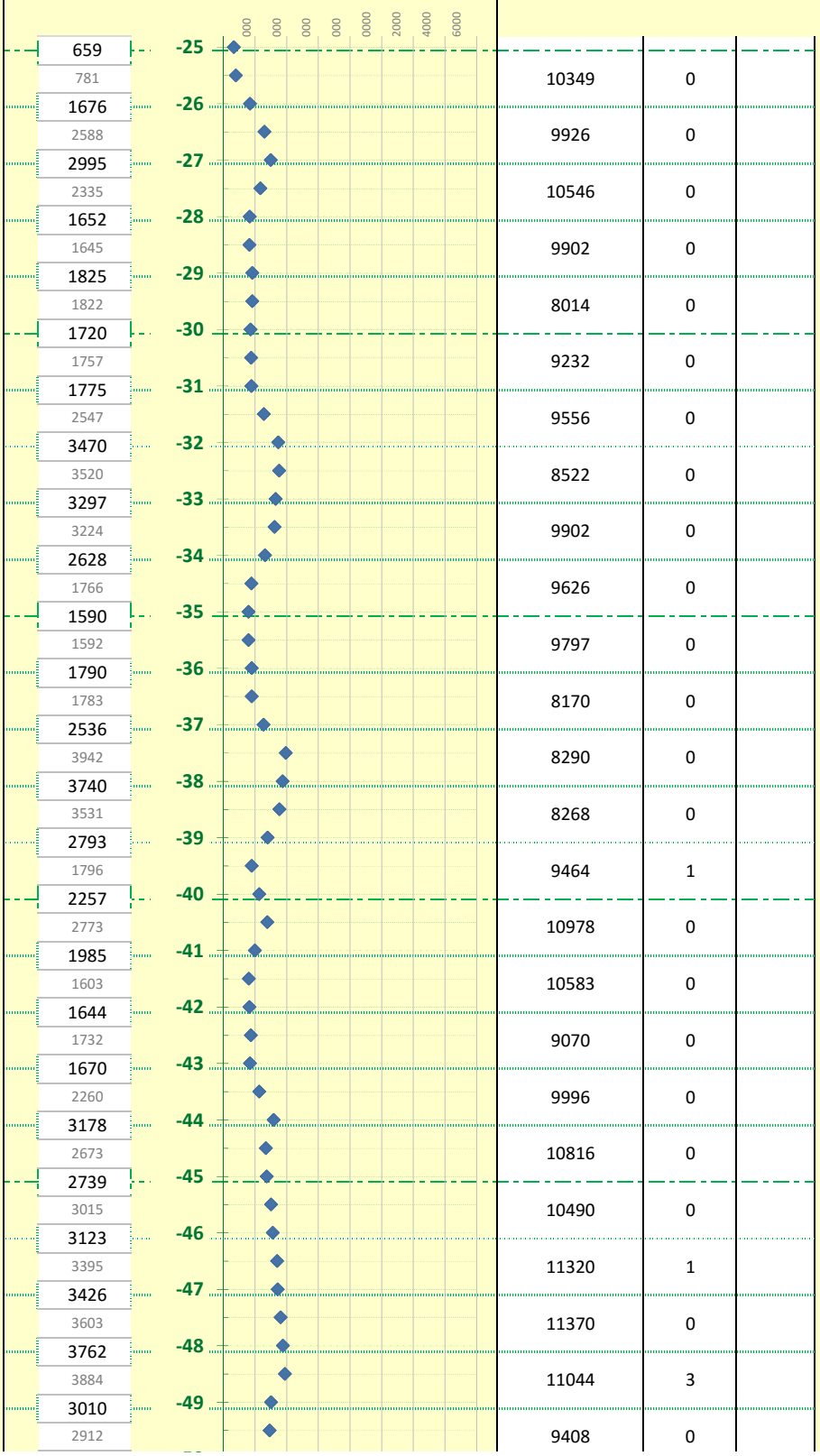
Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
659	-25				
781		10349	0		
1676	-26				
2588		9926	0		
2995	-27				
2335		10546	0		
1652	-28				
1645		9902	0		
1825	-29				
1822		8014	0		
1720	-30				
1757		9232	0		
1775	-31				
2547		9556	0		
3470	-32				
3520		8522	0		
3297	-33				
3224		9902	0		
2628	-34				
1766		9626	0		
1590	-35				
1592		9797	0		
1790	-36				
1783		8170	0		
2536	-37				
3942		8290	0		
3740	-38				
3531		8268	0		
2793	-39				
1796		9464	1		
2257	-40				
2773		10978	0		
1985	-41				
1603		10583	0		
1644	-42				
1732		9070	0		
1670	-43				
2260		9996	0		
3178	-44				
2673		10816	0		
2739	-45				
3015		10490	0		
3123	-46				
3395		11320	1		
3426	-47				
3603		11370	0		
3762	-48				
3884		11044	3		
3010	-49				
2912		9408	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-10**
Date Collected:	6/29/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2781	-50					
1822			10066	0		
1787	-51					
1919			10152	0		
2160	-52					
2320			10328	1		
2172	-53					
2049			10658	2		
2215	-54					
2452			9151	0		
2981	-55					
2994			10612	0		
2765	-56					
2145			10889	0		
1752	-57					
1740			10277	0		
1783	-58					
1864			11208	0		
1504	-59					
1057			10374	0		
1084	-60					
1338			7789	0		
1682	-61					
1754			8608	0		
1588	-62					
1475			8613	0		
1236	-63					
1180			9146	0		
1199	-64					
1076			8988	0		
984	-65					
891			9352	0		
982	-66					
1012			9870	0		
990	-67					
983			10744	2		
932	-68					
974			10132	0		
997	-69					
945			10015	0		
787	-70					
763			9659	0		
777	-71					
838			9919	0		
1233	-72					
2301			8624	0		
3045	-73					
3601			9246	0		
2999	-74					
2498			9590	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-10**
Date Collected:	6/29/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2249	-75					
2459			10638	1		
2756	-76					
2589			9954	0		
2241	-77					
2242			9352	0		
2309	-78					
2109			10067	0		
2232	-79					
2216			9363	0		
2324	-80					
			8735	0		
	-81					
			9296	0		
	-82					
			9964	0		
	-83					
			9621	0		
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-10**
Date Collected:	6/29/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-11**
Date Collected:	6/23/2015
GPS Location 1:	
GPS Location 2:	

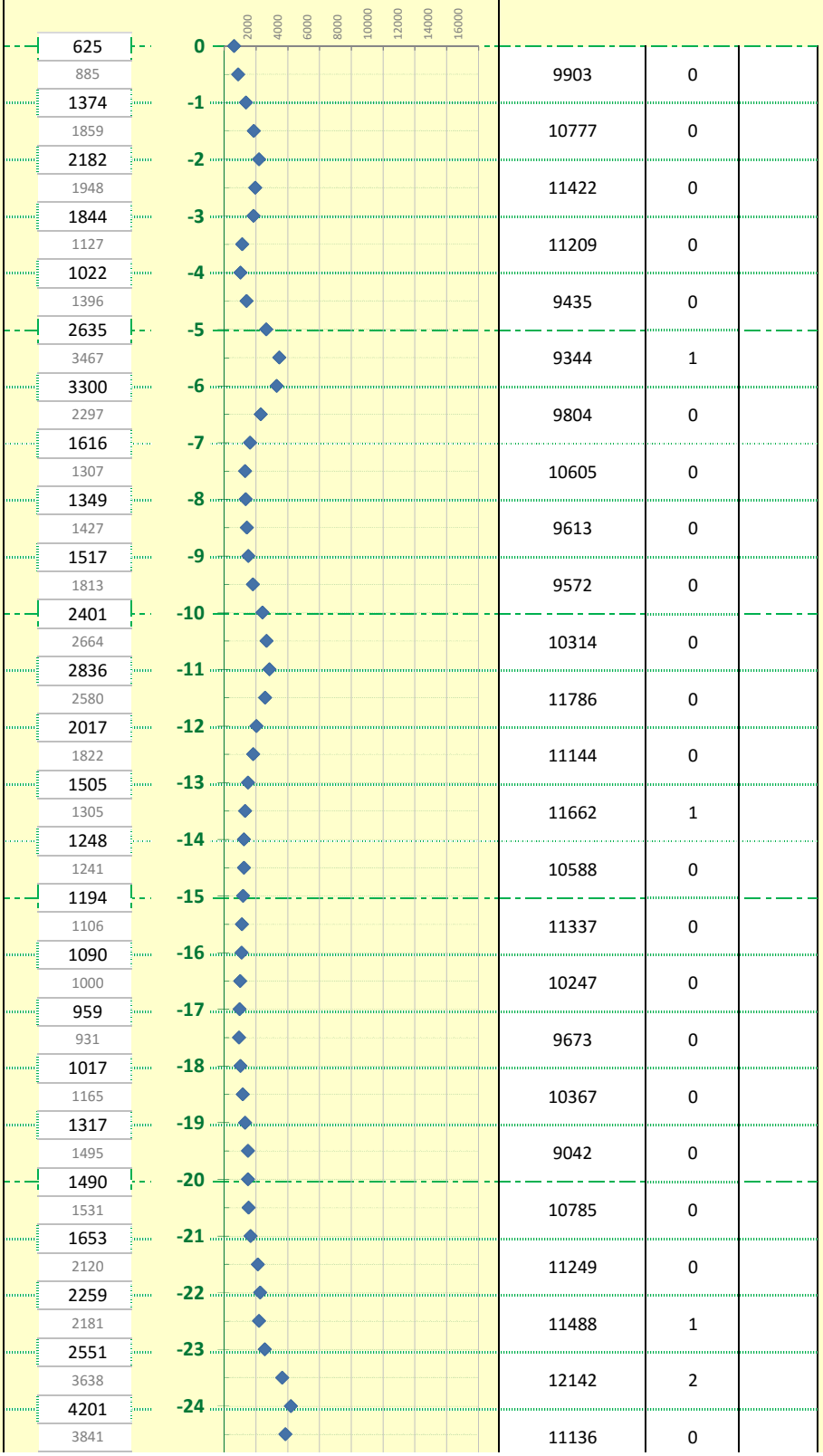
Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
625	0	9903	0		
885					
1374	-1	10777	0		
1859					
2182	-2	11422	0		
1948					
1844	-3	11209	0		
1127					
1022	-4	9435	0		
1396					
2635	-5	9344	1		
3467					
3300	-6	9804	0		
2297					
1616	-7	10605	0		
1307					
1349	-8	9613	0		
1427					
1517	-9	9572	0		
1813					
2401	-10	10314	0		
2664					
2836	-11	11786	0		
2580					
2017	-12	11144	0		
1822					
1505	-13	11662	1		
1305					
1248	-14	10588	0		
1241					
1194	-15	11337	0		
1106					
1090	-16	10247	0		
1000					
959	-17	9673	0		
931					
1017	-18	10367	0		
1165					
1317	-19	9042	0		
1495					
1490	-20	10785	0		
1531					
1653	-21	11249	0		
2120					
2259	-22	11488	1		
2181					
2551	-23	12142	2		
3638					
4201	-24	11136	0		
3841					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-11**
Date Collected:	6/23/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
3057	-25					
2127			10307	0		
1786	-26					
1685			10626	0		
1948	-27					
1791			11110	1		
1983	-28					
1961			10017	0		
1601	-29					
1451			10128	0		
1660	-30					
2034			11563	0		
2612	-31					
2229			10797	0		
1712	-32					
1488			11977	0		
1446	-33					
1443			12955	1		
1316	-34					
1502			11617	0		
1421	-35					
1336			12575	0		
1260	-36					
1175			11913	1		
1189	-37					
1411			11468	0		
1647	-38					
2002			9978	1		
2042	-39					
1914			9988	0		
1712	-40					
2111			9302	0		
2514	-41					
3382			10203	0		
4267	-42					
4372			10683	0		
3882	-43					
3731			11662	1		
2894	-44					
2456			12678	0		
2434	-45					
2471			13373	0		
3042	-46					
3295			12526	0		
3106	-47					
4304			11393	0		
3029	-48					
2517			11791	0		
2008	-49					
1654			11001	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-11**
Date Collected:	6/23/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1815	-50					
2606			9198	0		
3630	-51					
3701			9741	0		
3438	-52					
3055			11028	0		
2294	-53					
2557			11871	0		
2136	-54					
1855			12325	1		
1738	-55					
1972			11697	0		
2805	-56					
3399			11082	0		
3209	-57					
3174			11051	0		
2580	-58					
1880			12217	0		
1455	-59					
1492			9618	0		
1879	-60					
2267			8518	0		
2351	-61					
1952			9718	0		
1832	-62					
1888			10708	0		
2026	-63					
2488			12412	0		
2806	-64					
3469			12798	0		
3455	-65					
2832			12781	0		
2370	-66					
2083			12370	0		
2233	-67					
1999			11501	0		
2142	-68					
2245			9894	0		
2091	-69					
2220			10517	0		
3135	-70					
3557			11812	0		
3159	-71					
2289			12086	0		
1789	-72					
1517			12152	0		
1516	-73					
1832			12979	1		
2562	-74					
2917			11711	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-11
Date Collected:	6/23/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1982	-75					
1443			12479	0		
1301	-76					
1198			11954	0		
1395	-77					
2080			11757	0		
2632	-78					
3252			11778	0		
3472	-79					
2953			9375	0		
2921	-80					
2634			11366	1		
3472	-81					
5414			10037	0		
6461	-82					
5813			11853	2		
6833	-83					
11791			14579	0		
16554	-84					
10269			12506	3		
4378	-85					
3961			24281	38		
4179	-86					
5095			13647	2		
5241	-87					
4282			13021	0		
3115	-88					
3001			12802	1		
2720	-89					
2418			9701	0		
2367	-90					
2297			10463	0		
2199	-91					
2177			10063	0		
2068	-92					
1561			13266	0		
1790	-93					
1871			13302	0		
2227	-94					
2609			13258	0		
2541	-95					
2609			12689	0		
2837	-96					
2589			11912	0		
2216	-97					
2082			11775	0		
1915	-98					
1912			12068	0		
2194	-99					
1999			10409	0		
1986	-100					
1994			10190	0		
2088	-101					
2270			11549	0		
2254	-102					

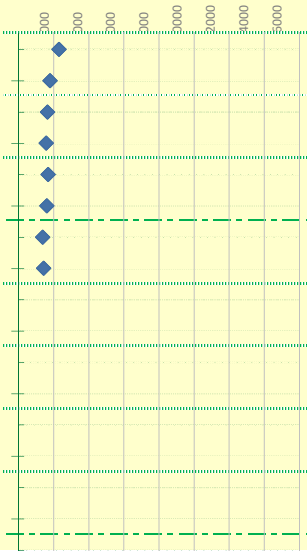
Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-11
Date Collected:	6/23/2015
GPS Location 1:	
GPS Location 2:	
Alpha	0 cpm
Dose Reading (M19):	
1 m Above Surface	5 µR/h
Contact	7 µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2254						
2289			11448	1		
1794	-103					
1633			11664	0		
1573	-104					
1674			11899	1		
1605	-105					
1375			11803	1		
1432	-106					
	-107					
	-108					
	-109					
	-110					



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-12**
Date Collected:	6/27/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

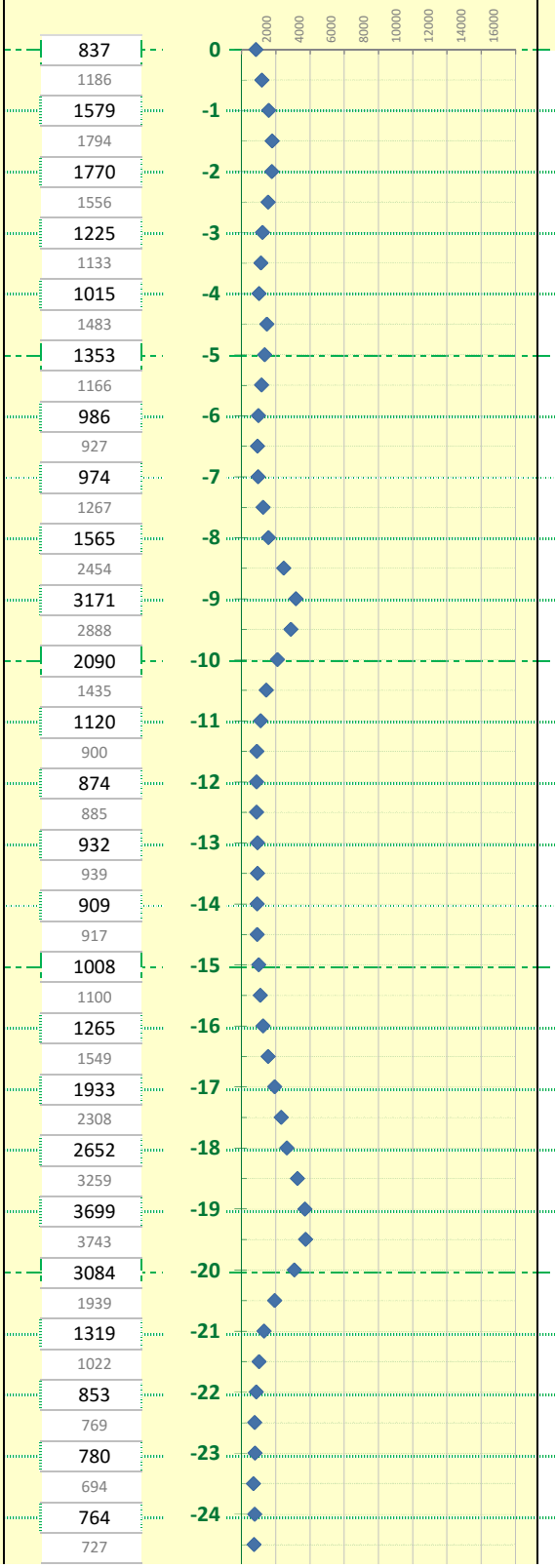
Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
837	0		8375	0		
1186						
1579	-1		12442	3		
1794						
1770	-2		12278	2		
1556						
1225	-3		12340	0		
1133						
1015	-4		13186	3		
1483						
1353	-5		11870	0		
1166						
986	-6		10578	0		
927						
974	-7		11584	0		
1267						
1565	-8		9272	0		
2454						
3171	-9		11033	0		
2888						
2090	-10		8745	0		
1435						
1120	-11		9686	0		
900						
874	-12		10038	0		
885						
932	-13		10859	0		
939						
909	-14		9893	0		
917						
1008	-15		10280	0		
1100						
1265	-16		10166	0		
1549						
1933	-17		9791	0		
2308						
2652	-18		9176	0		
3259						
3699	-19		11259	1		
3743						
3084	-20		9803	0		
1939						
1319	-21		10113	0		
1022						
853	-22		10128	1		
769						
780	-23		9318	0		
694						
764	-24		11023	0		
727						



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-12**
Date Collected:	6/27/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
838	-25				
888		10151	1		
947	-26				
966		10654	2		
1094	-27				
1324		10300	0		
1663	-28				
2320		9335	0		
3493	-29				
4173		NR			
3844	-30				
3375		NR			
2808	-31				
2027		NR			
1565	-32				
1561		NR			
2189	-33				
2328		NR			
2747	-34				
2608		NR			
2402	-35				
2444		NR			
2202	-36				
2691		NR			
2401	-37				
1893		NR			
1306	-38				
1112		NR			
1248	-39				
1322		9625	0		
1477	-40				
1784		9521	0		
1704	-41				
2130		9276	0		
3052	-42				
3759		11975	1		
3485	-43				
2518		13288	3		
2401	-44				
3033		12177	3		
2734	-45				
2343		11041	0		
2588	-46				
2944		10692	1		
2548	-47				
1828		11980	3		
1851	-48				
1877		11490	1		
2662	-49				
3517		8270	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-12**
Date Collected:	6/27/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
3518	-50					
3611			9883	0		
3618	-51					
3633			9977	0		
3940	-52					
3933			10301	0		
3601	-53					
2339			10751	0		
1383	-54					
1364			10585	0		
1476	-55					
1525			9218	0		
1227	-56					
1034			8023	0		
1092	-57					
1037			8956	0		
1157	-58					
1664			9197	0		
2533	-59					
3629			12215	4		
3634	-60					
3388			11638	0		
2750	-61					
1630			13843	0		
1369	-62					
1620			12860	1		
2464	-63					
3249			11146	0		
3409	-64					
3334			11716	0		
3374	-65					
3738			11162	1		
3746	-66					
3623			11374	0		
3231	-67					
3187			11652	0		
3300	-68					
3214			11321	1		
3657	-69					
3232			9845	0		
3104	-70					
3110			11748	0		
3061	-71					
2810			10136	0		
2399	-72					
2172			9870	0		
2083	-73					
1989			11167	2		
2018	-74					
1850			11833	1		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-12**
Date Collected:	6/27/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1996	-75					
2201			9236	0		
2160	-76					
2220			8655	0		
2406	-77					
2390			9513	0		
2703	-78					
2839			10004	0		
2903	-79					
2642			10460	0		
2419	-80					
1988			11120	2		
1755	-81					
1666			10632	0		
1483	-82					
1613			10341	0		
1670	-83					
1679			11441	0		
1743	-84					
1840			12464	3		
2150	-85					
	-86		12602	0		
			11029	0		
	-87					
			12429	0		
	-88					
			10533	0		
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-12
Date Collected:	6/27/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm
Dose Reading (M19):		
1 m Above Surface	5	µR/h
Contact	7	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-13**
Date Collected:	6/5/2015
GPS Location 1:	
GPS Location 2:	

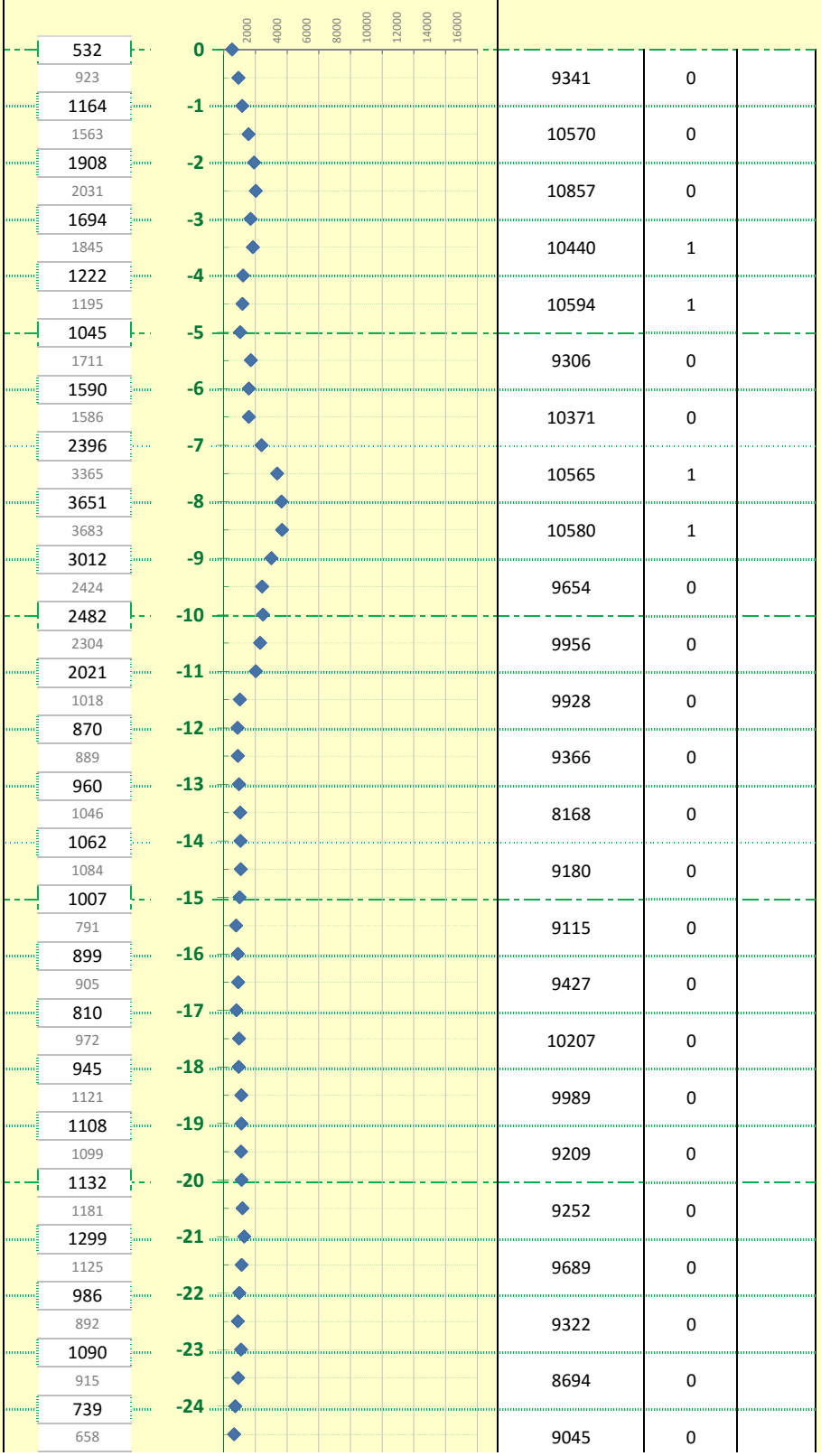
Area Bkg for Core Scan:

Gamma	9974	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact		µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
532	0				
923		9341	0		
1164	-1				
1563		10570	0		
1908	-2				
2031		10857	0		
1694	-3				
1845		10440	1		
1222	-4				
1195		10594	1		
1045	-5				
1711		9306	0		
1590	-6				
1586		10371	0		
2396	-7				
3365		10565	1		
3651	-8				
3683		10580	1		
3012	-9				
2424		9654	0		
2482	-10				
2304		9956	0		
2021	-11				
1018		9928	0		
870	-12				
889		9366	0		
960	-13				
1046		8168	0		
1062	-14				
1084		9180	0		
1007	-15				
791		9115	0		
899	-16				
905		9427	0		
810	-17				
972		10207	0		
945	-18				
1121		9989	0		
1108	-19				
1099		9209	0		
1132	-20				
1181		9252	0		
1299	-21				
1125		9689	0		
986	-22				
892		9322	0		
1090	-23				
915		8694	0		
739	-24				
658		9045	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-13**
Date Collected:	6/5/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

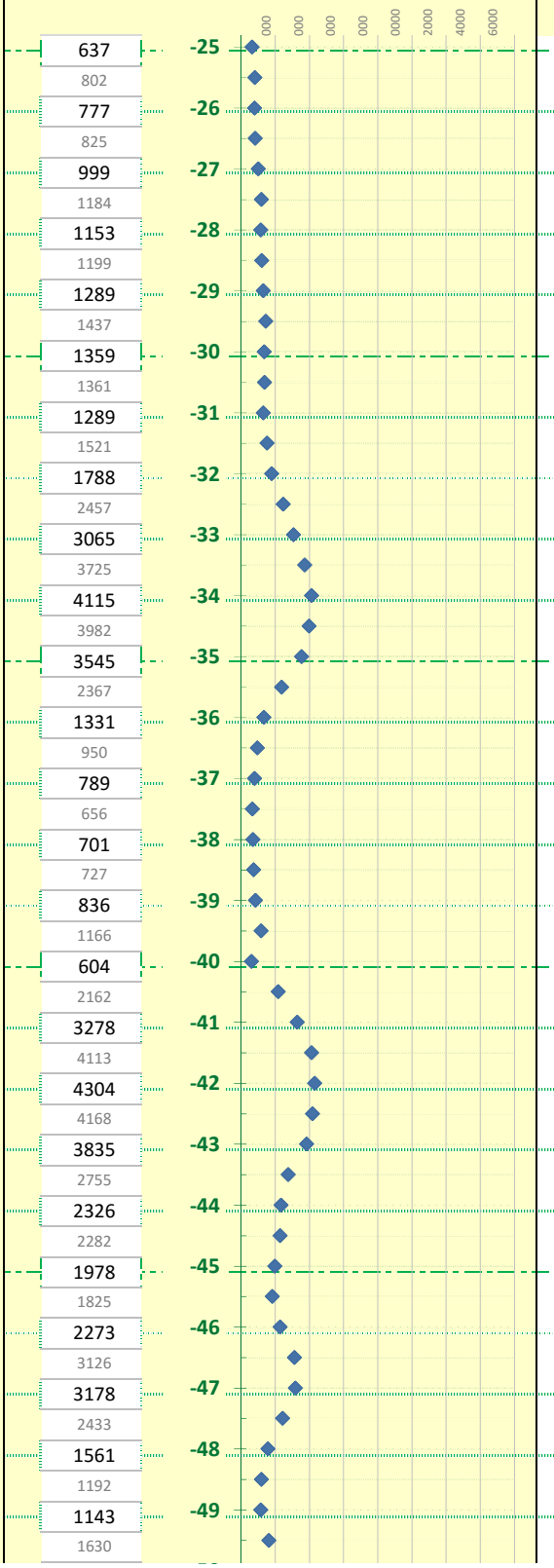
Gamma	9974	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact		µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
637	-25	9420	0		
802					
777	-26	9392	0		
825					
999	-27	9899	0		
1184					
1153	-28	9175	0		
1199					
1289	-29	8820	0		
1437					
1359	-30	8910	0		
1361					
1289	-31	8655	0		
1521					
1788	-32	9199	0		
2457					
3065	-33	9124	0		
3725					
4115	-34	11316	0		
3982					
3545	-35	10658	0		
2367					
1331	-36	8186	0		
950					
789	-37	8408	0		
656					
701	-38	8526	0		
727					
836	-39	8637	1		
1166					
604	-40	8929	0		
2162					
3278	-41	8560	0		
4113					
4304	-42	8391	0		
4168					
3835	-43	9755	0		
2755					
2326	-44	10183	0		
2282					
1978	-45	9863	0		
1825					
2273	-46	9103	0		
3126					
3178	-47	8627	0		
2433					
1561	-48	9359	0		
1192					
1143	-49	8815	0		
1630					



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-13**
Date Collected:	6/5/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9974	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact		µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2503	-50					
2758			9985	0		
2078	-51					
2086			9043	0		
2335	-52					
2699			9766	0		
3309	-53					
3445			9328	2		
3620	-54					
3023			9510	0		
2190	-55					
1819			10646	1		
2028	-56					
2494			9832	0		
2535	-57					
2021			9584	1		
1921	-58					
2149			10335	0		
2251	-59					
2023			10444	0		
1599	-60					
1272			9934	0		
989	-61					
1201			10218	0		
1273	-62					
1467			8281	0		
1707	-63					
1824			9284	0		
1382	-64					
957			8751	0		
1096	-65					
1455			9419	0		
1911	-66					
2300			9182	0		
1927	-67					
2012			9732	0		
2639	-68					
2562			9068	0		
2720	-69					
2788			8992	0		
2936	-70					
3462			9577	0		
3020	-71					
1972			10852	0		
1391	-72					
1460			10260	0		
1767	-73					
2435			10083	0		
2635	-74					
2195			10968	1		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-13**
Date Collected:	6/5/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9974	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact		µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1926	-75					
1860			10166	0		
2225	-76					
2881			9645	1		
2907	-77					
2714			8546	0		
1989	-78					
1857			10081	0		
2183	-79					
2444			10091	0		
2288	-80					
2001			10568	0		
2038	-81					
			9638	0		
	-82					
			10435	0		
	-83					
			9932	0		
	-84					
			10096	0		
	-85					
			10764	0		
	-86					
			10163	0		
	-87					
			10402	0		
	-88					
			10438	0		
	-89					
			10878	0		
	-90					
			9997	0		
	-91					
			11572	0		
	-92					
			12056	0		
	-93					
			13515	0		
	-94					
			12118	1		
	-95					
			12719	0		
	-96					
			11896	0		
	-97					
			12688	0		
	-98					
			11812	0		
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	9974	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-13**
Date Collected:	6/5/2015
GPS Location 1:	
GPS Location 2:	

Alpha 0 cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact		µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-14**
Date Collected:	6/6/2015
GPS Location 1:	
GPS Location 2:	

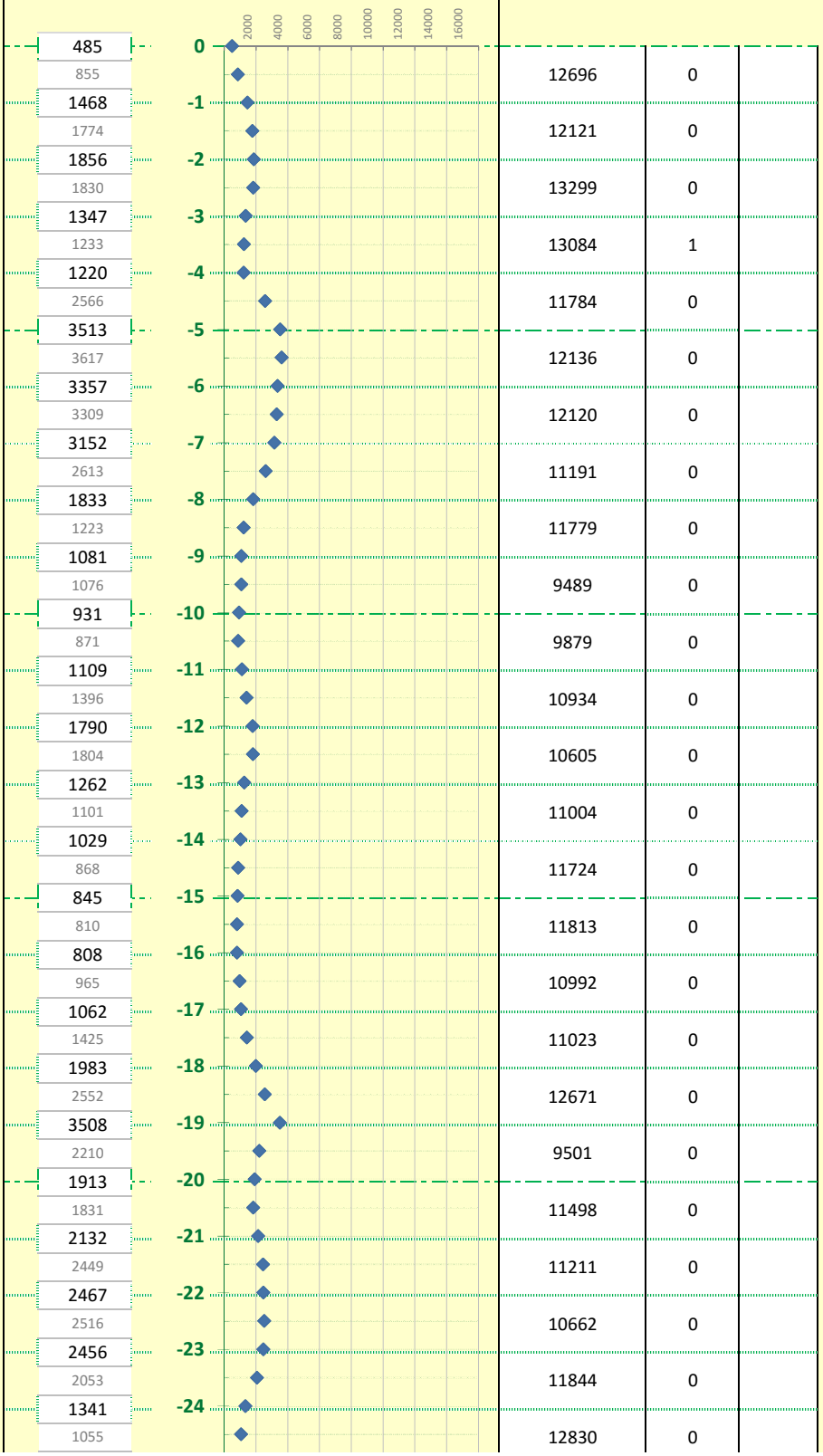
Area Bkg for Core Scan:

Gamma	9849	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact		µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
485	0				
855		12696	0		
1468	-1				
1774		12121	0		
1856	-2				
1830		13299	0		
1347	-3				
1233		13084	1		
1220	-4				
2566		11784	0		
3513	-5				
3617		12136	0		
3357	-6				
3309		12120	0		
3152	-7				
2613		11191	0		
1833	-8				
1223		11779	0		
1081	-9				
1076		9489	0		
931	-10				
871		9879	0		
1109	-11				
1396		10934	0		
1790	-12				
1804		10605	0		
1262	-13				
1101		11004	0		
1029	-14				
868		11724	0		
845	-15				
810		11813	0		
808	-16				
965		10992	0		
1062	-17				
1425		11023	0		
1983	-18				
2552		12671	0		
3508	-19				
2210		9501	0		
1913	-20				
1831		11498	0		
2132	-21				
2449		11211	0		
2467	-22				
2516		10662	0		
2456	-23				
2053		11844	0		
1341	-24				
1055		12830	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-14**
Date Collected:	6/6/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9849	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact		µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
752	-25					
695			12788	0		
658	-26					
589			11831	0		
617	-27					
627			10630	0		
727	-28					
986			10121	0		
958	-29					
930			10128	0		
1183	-30					
1063			10715	0		
940	-31					
1257			12155	0		
1136	-32					
987			12352	0		
1073	-33					
1111			11416	0		
1222	-34					
1479			12442	0		
1399	-35					
1340			12070	0		
1327	-36					
1484			12015	0		
1170	-37					
961			11355	0		
680	-38					
628			12160	0		
599	-39					
551			11034	0		
755	-40					
760			9498	0		
820	-41					
1027			11182	0		
1403	-42					
2259			10581	0		
3261	-43					
4010			10692	0		
3645	-44					
2920			12552	0		
2116	-45					
1316			12739	0		
1016	-46					
1021			12524	2		
1471	-47					
1800			11845	0		
2136	-48					
2730			12690	0		
2880	-49					
2308			11820	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-14**
Date Collected:	6/6/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9849	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact		µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1730	-50					
1747			13607	0		
2779	-51					
3107			12973	0		
2865	-52					
3196			13522	1		
3540	-53					
3649			12659	0		
3533	-54					
2465			14725	1		
1794	-55					
1452			14610	0		
1438	-56					
1751			11206	1		
1708	-57					
1551			11455	0		
1803	-58					
2142			10366	0		
2493	-59					
2635			11421	0		
3131	-60					
3168			11159	0		
2481	-61					
1747			13035	0		
1265	-62					
1310			11792	0		
1462	-63					
2122			12005	0		
2502	-64					
2317			12168	0		
1888	-65					
1927			12674	0		
2431	-66					
2580			12842	0		
2820	-67					
2351			13270	0		
2661	-68					
2452			11390	0		
2002	-69					
1827			11636	0		
1959	-70					
2287			12385	0		
1993	-71					
1516			11905	0		
1350	-72					
1502			12308	0		
1288	-73					
1487			12609	0		
1806	-74					
1752			11647	2		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-14**
Date Collected:	6/6/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9849	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact		µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1680	-75					
2217			13072	0		
2080	-76					
1974			10690	0		
1583	-77					
1485			10336	0		
2015	-78					
2993			10234	0		
2828	-79					
3159			12324	0		
3286	-80					
3565			12897	1		
3219	-81					
2527			13176	0		
1862	-82					
2152			12290	1		
2338	-83					
2734			13305	1		
3438	-84					
3385			13173	1		
3521	-85					
3364			12894	0		
2650	-86					
			11235	0		
	-87					
			11835	0		
	-88					
			11748	0		
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	9849	cpm
Alpha	0	cpm

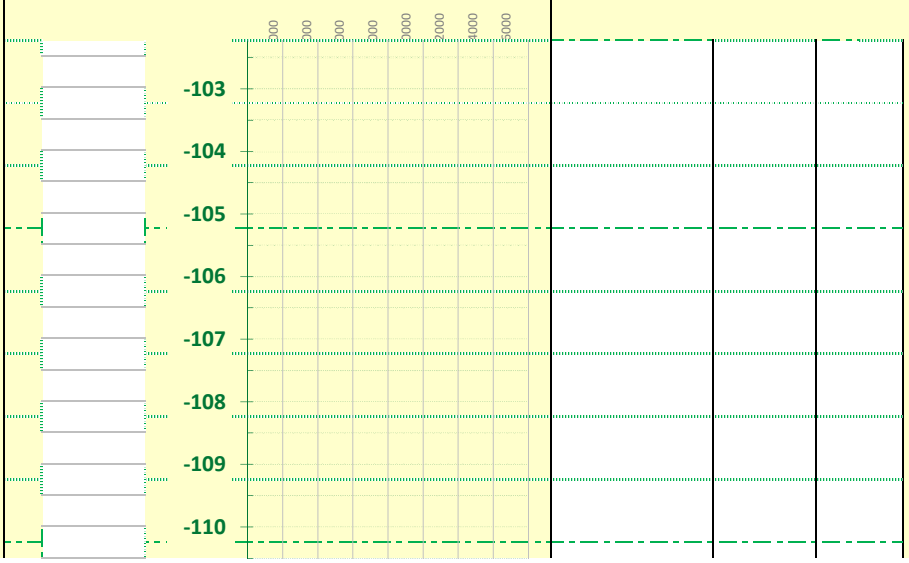
A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-14**
Date Collected:	6/6/2015
GPS Location 1:	
GPS Location 2:	

Alpha 0 cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact		µR/h



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-15**
Date Collected:	6/25/2015
GPS Location 1:	
GPS Location 2:	

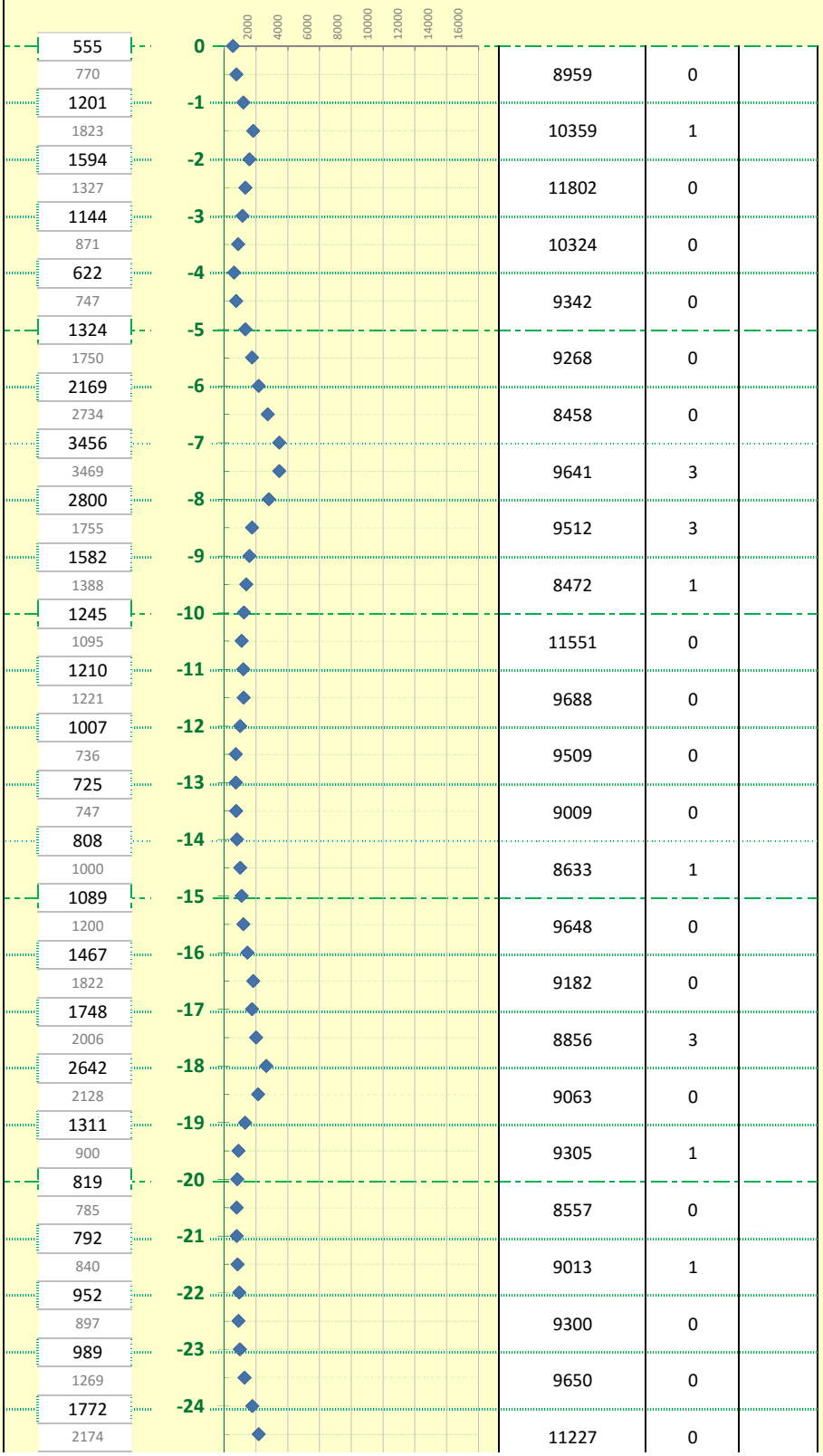
Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
555	0				
770		8959	0		
1201	-1				
1823		10359	1		
1594	-2				
1327		11802	0		
1144	-3				
871		10324	0		
622	-4				
747		9342	0		
1324	-5				
1750		9268	0		
2169	-6				
2734		8458	0		
3456	-7				
3469		9641	3		
2800	-8				
1755		9512	3		
1582	-9				
1388		8472	1		
1245	-10				
1095		11551	0		
1210	-11				
1221		9688	0		
1007	-12				
736		9509	0		
725	-13				
747		9009	0		
808	-14				
1000		8633	1		
1089	-15				
1200		9648	0		
1467	-16				
1822		9182	0		
1748	-17				
2006		8856	3		
2642	-18				
2128		9063	0		
1311	-19				
900		9305	1		
819	-20				
785		8557	0		
792	-21				
840		9013	1		
952	-22				
897		9300	0		
989	-23				
1269		9650	0		
1772	-24				
2174		11227	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-15**
Date Collected:	6/25/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1904	-25					
1214			9458	0		
857	-26					
728			9125	0		
635	-27					
646			9485	1		
748	-28					
882			8705	0		
1084	-29					
1396			8805	0		
1863	-30					
2318			9635	1		
2403	-31					
2446			10853	0		
2748	-32					
3048			9418	0		
3396	-33					
3487			9064	0		
3529	-34					
3133			9925	0		
2296	-35					
1770			8977	0		
1602	-36					
1609			8940	0		
1527	-37					
1146			8791	1		
1103	-38					
1093			9311	0		
1174	-39					
876			8440	1		
698	-40					
586			9205	0		
565	-41					
610			8753	0		
755	-42					
1000			9841	0		
964	-43					
1167			9543	0		
1169	-44					
2313			8512	0		
2847	-45					
2638			10501	0		
2402	-46					
2102			9253	0		
2065	-47					
2346			7954	1		
2857	-48					
3391			9613	0		
3584	-49					
3511			11505	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-15**
Date Collected:	6/25/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
3044	-50					
1988			9791	4		
1755	-51					
2057			10809	0		
2333	-52					
1937			9598	3		
1477	-53					
1497			9015	0		
1800	-54					
2395			9073	0		
3040	-55					
2707			9628	0		
2124	-56					
1684			9322	0		
1218	-57					
1132			9165	4		
1443	-58					
1654			9086	3		
1844	-59					
1780			9006	0		
1628	-60					
1335			9940	0		
1668	-61					
1757			9744	0		
1808	-62					
1796			8523	3		
1850	-63					
2275			9473	0		
2610	-64					
2781			9943	3		
2993	-65					
2612			10714	0		
1926	-66					
1661			10792	0		
1685	-67					
1546			11887	0		
1501	-68					
1420			9795	1		
1631	-69					
2132			8921	0		
1781	-70					
1321			9714	0		
1058	-71					
1120			10354	1		
1785	-72					
2122			10307	0		
2219	-73					
1957			9329	2		
1759	-74					
1965			8961	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-15**
Date Collected:	6/25/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2584	-75					
2964			10021	0		
3220	-76					
2957			9733	0		
1800	-77					
1421			9950	6		
1156	-78					
970			9606	0		
843	-79					
954			10586	0		
1772	-80					
2364			9392	0		
2268	-81					
1786			10803	0		
1510	-82					
1604			9950	0		
2288	-83					
4195			8247	0		
7912	-84					
14531			9232	0		
20523	-85					
18763			13352	15		
5748	-86					
3265			12185	5		
2517	-87					
2425			11419	2		
2603	-88					
3345			9668	0		
4415	-89					
4815			10072	1		
5581	-90					
5781			10962	0		
4720	-91					
3455			11246	1		
3258	-92					
2740			11432	0		
2552	-93					
2550			11006	0		
2368	-94					
2301			10370	1		
2260	-95					
2307			10554	0		
2169	-96					
			10975	0		
	-97					
			9089	1		
	-98					
			9526	0		
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	9819	cpm
Alpha	0	cpm

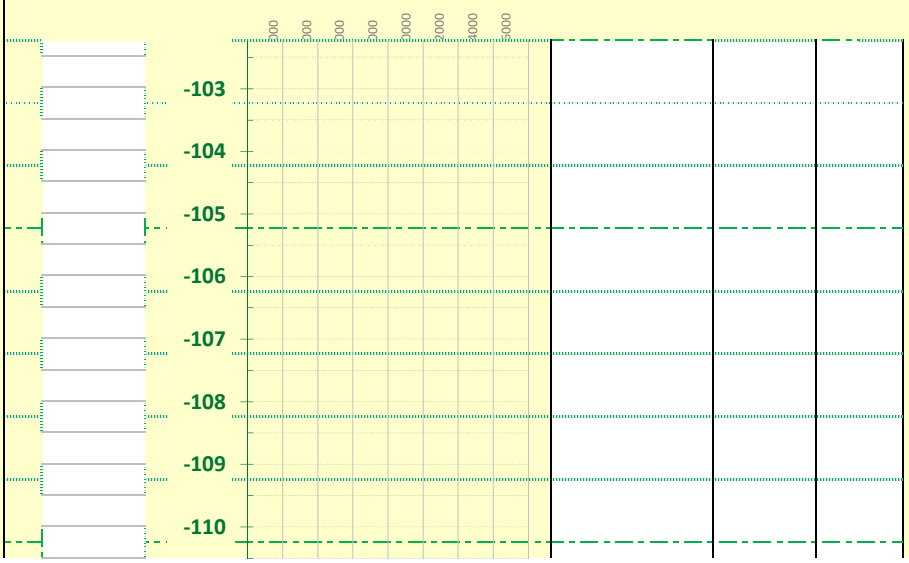
A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-15**
Date Collected:	6/25/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h



A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-16**
Date Collected:	7/13/2015
GPS Location 1:	
GPS Location 2:	

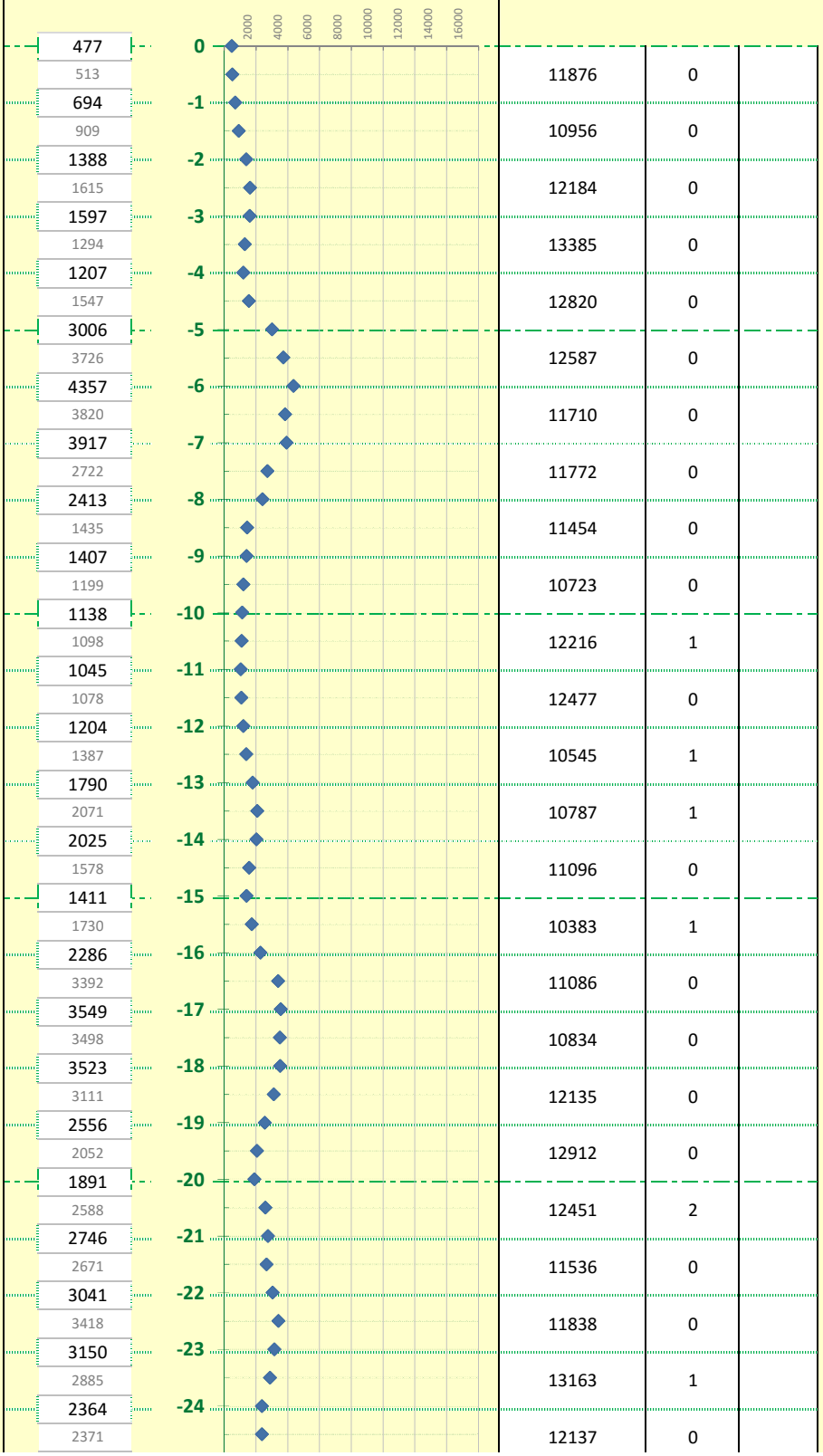
Area Bkg for Core Scan:

Gamma	14021	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
477	0				
513		11876	0		
694	-1				
909		10956	0		
1388	-2				
1615		12184	0		
1597	-3				
1294		13385	0		
1207	-4				
1547		12820	0		
3006	-5				
3726		12587	0		
4357	-6				
3820		11710	0		
3917	-7				
2722		11772	0		
2413	-8				
1435		11454	0		
1407	-9				
1199		10723	0		
1138	-10				
1098		12216	1		
1045	-11				
1078		12477	0		
1204	-12				
1387		10545	1		
1790	-13				
2071		10787	1		
2025	-14				
1578		11096	0		
1411	-15				
1730		10383	1		
2286	-16				
3392		11086	0		
3549	-17				
3498		10834	0		
3523	-18				
3111		12135	0		
2556	-19				
2052		12912	0		
1891	-20				
2588		12451	2		
2746	-21				
2671		11536	0		
3041	-22				
3418		11838	0		
3150	-23				
2885		13163	1		
2364	-24				
2371		12137	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-16**
Date Collected:	7/13/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	14021	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2003	-25					
1530			10777	0		
1386	-26					
1468			11923	1		
1848	-27					
2267			10601	1		
2923	-28					
3161			10983	0		
2350	-29					
2410			12078	0		
3022	-30					
3168			13272	1		
2850	-31					
2426			13475	0		
1772	-32					
1316			12441	1		
1372	-33					
1702			10761	1		
1531	-34					
1938			12159	0		
1410	-35					
1402			11128	0		
1901	-36					
3353			11010	0		
3351	-37					
3909			12795	0		
3744	-38					
3336			13426	0		
3356	-39					
2317			11812	1		
2032	-40					
1973			11673	3		
1857	-41					
2258			11220	1		
2768	-42					
2272			11118	0		
1002	-43					
2165			12035	0		
1003	-44					
2165			11006	2		
1745	-45					
1983			10764	0		
1693	-46					
1429			10582	1		
956	-47					
1025			10143	0		
2165	-48					
1285			10963	0		
1035	-49					
1129			13307	2		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-16**
Date Collected:	7/13/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	14021	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
11886	-50					
9089			24411	17		
4892	-51					
4130			13761	3		
2521	-52					
1884			12623	0		
1449	-53					
1460			14178	2		
1524	-54					
1606			12463	1		
1741	-55					
1869			11816	1		
2262	-56					
2344			10791	2		
2171	-57					
2420			11108	0		
2635	-58					
2435			10815	0		
2218	-59					
2199			12021	1		
2263	-60					
2265			11821	0		
2199	-61					
2071			11772	0		
2181	-62					
2069			13621	1		
1805	-63					
			13109	0		
	-64					
	-65					
	-66					
	-67					
	-68					
	-69					
	-70					
	-71					
	-72					
	-73					
	-74					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-16
Date Collected:	7/13/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	14021	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-75					
	-76					
	-77					
	-78					
	-79					
	-80					
	-81					
	-82					
	-83					
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	14021	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-16**
Date Collected:	7/13/2015
GPS Location 1:	
GPS Location 2:	

Alpha 0 cpm

Dose Reading (M19):

1 m Above Surface	7	µR/h
Contact	6	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-17**
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

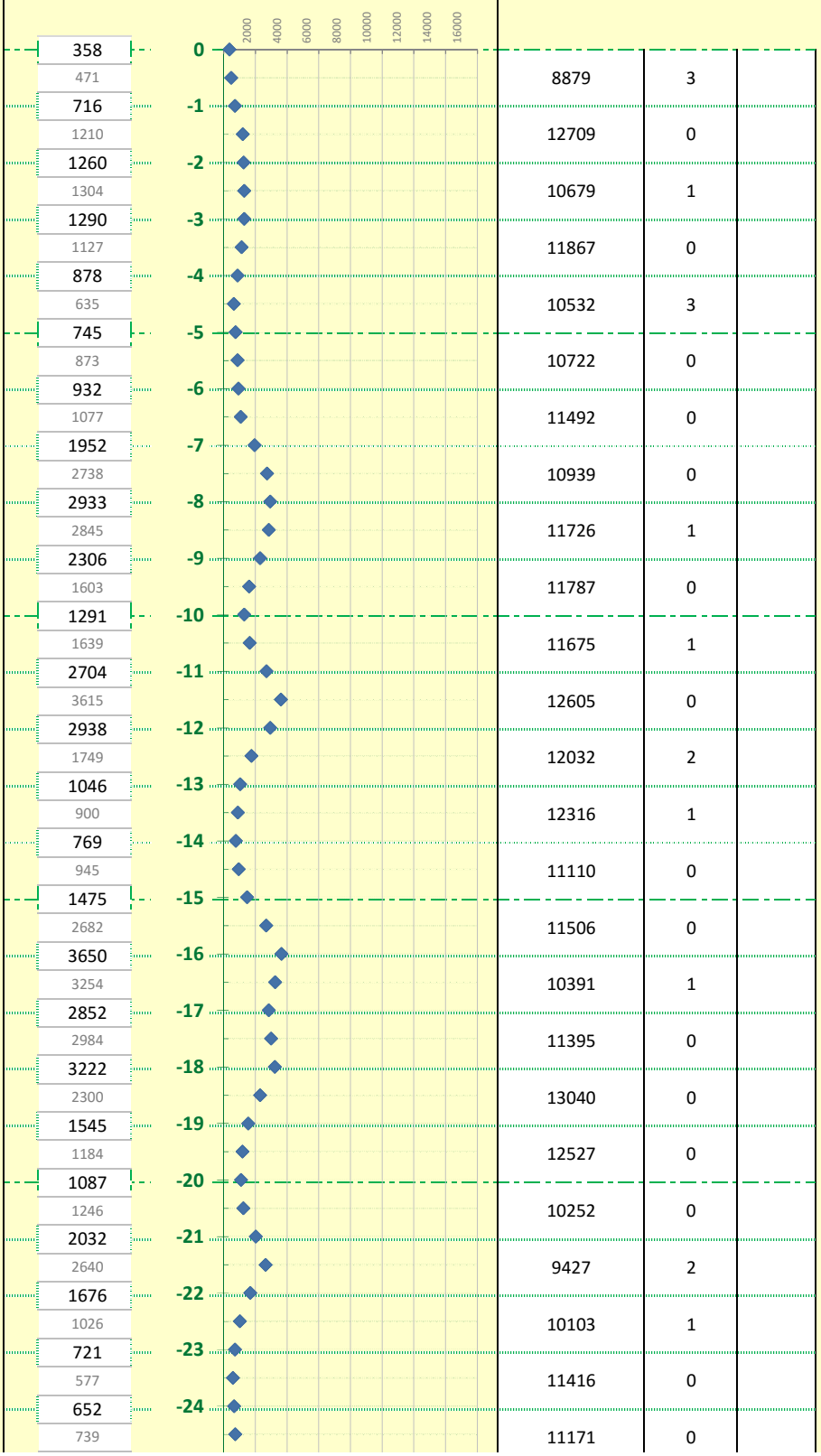
Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
358	0	8879	3		
471					
716	-1	12709	0		
1210					
1260	-2	10679	1		
1304					
1290	-3	11867	0		
1127					
878	-4	10532	3		
635					
745	-5	10722	0		
873					
932	-6	11492	0		
1077					
1952	-7	10939	0		
2738					
2933	-8	11726	1		
2845					
2306	-9	11787	0		
1603					
1291	-10	11675	1		
1639					
2704	-11	12605	0		
3615					
2938	-12	12032	2		
1749					
1046	-13	12316	1		
900					
769	-14	11110	0		
945					
1475	-15	11506	0		
2682					
3650	-16	10391	1		
3254					
2852	-17	11395	0		
2984					
3222	-18	13040	0		
2300					
1545	-19	12527	0		
1184					
1087	-20	10252	0		
1246					
2032	-21	9427	2		
2640					
1676	-22	10103	1		
1026					
721	-23	11416	0		
577					
652	-24	11171	0		
739					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-17**
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
975	-25					
1556			11261	2		
1975	-26					
2183			10112	1		
2126	-27					
2196			11815	1		
1934	-28					
2139			10704	1		
1979	-29					
1814			11492	0		
1899	-30					
1394			12760	0		
1128	-31					
916			10728	0		
1049	-32					
1651			9671	1		
1575	-33					
1314			12178	0		
1278	-34					
1519			10031	1		
1926	-35					
2252			12520	0		
2345	-36					
2277			11799	0		
2385	-37					
2541			12364	3		
2443	-38					
2513			12508	0		
2191	-39					
2008			12382	2		
2166	-40					
			11612	1		
	-41					
			10388	0		
	-42					
			10293	0		
	-43					
			9590	0		
	-44					
			11433	1		
	-45					
			10652	4		
	-46					
			11016	0		
	-47					
			11826	0		
	-48					
			11654	0		
	-49					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-17**
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-50					
	-51					
	-52					
	-53					
	-54					
	-55					
	-56					
	-57					
	-58					
	-59					
	-60					
	-61					
	-62					
	-63					
	-64					
	-65					
	-66					
	-67					
	-68					
	-69					
	-70					
	-71					
	-72					
	-73					
	-74					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-17**
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Area Bkg for Core Scan:

Gamma	10216	cpm
Alpha	0	cpm

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-75	000 000 000 000 0000 2000 4000 6000				
	-76					
	-77					
	-78					
	-79					
	-80					
	-81					
	-82					
	-83					
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-17**
Date Collected:	6/10/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm
Dose Reading (M19):		
1 m Above Surface	4	µR/h
Contact	5	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-18**
Date Collected:	6/12/2015
GPS Location 1:	
GPS Location 2:	

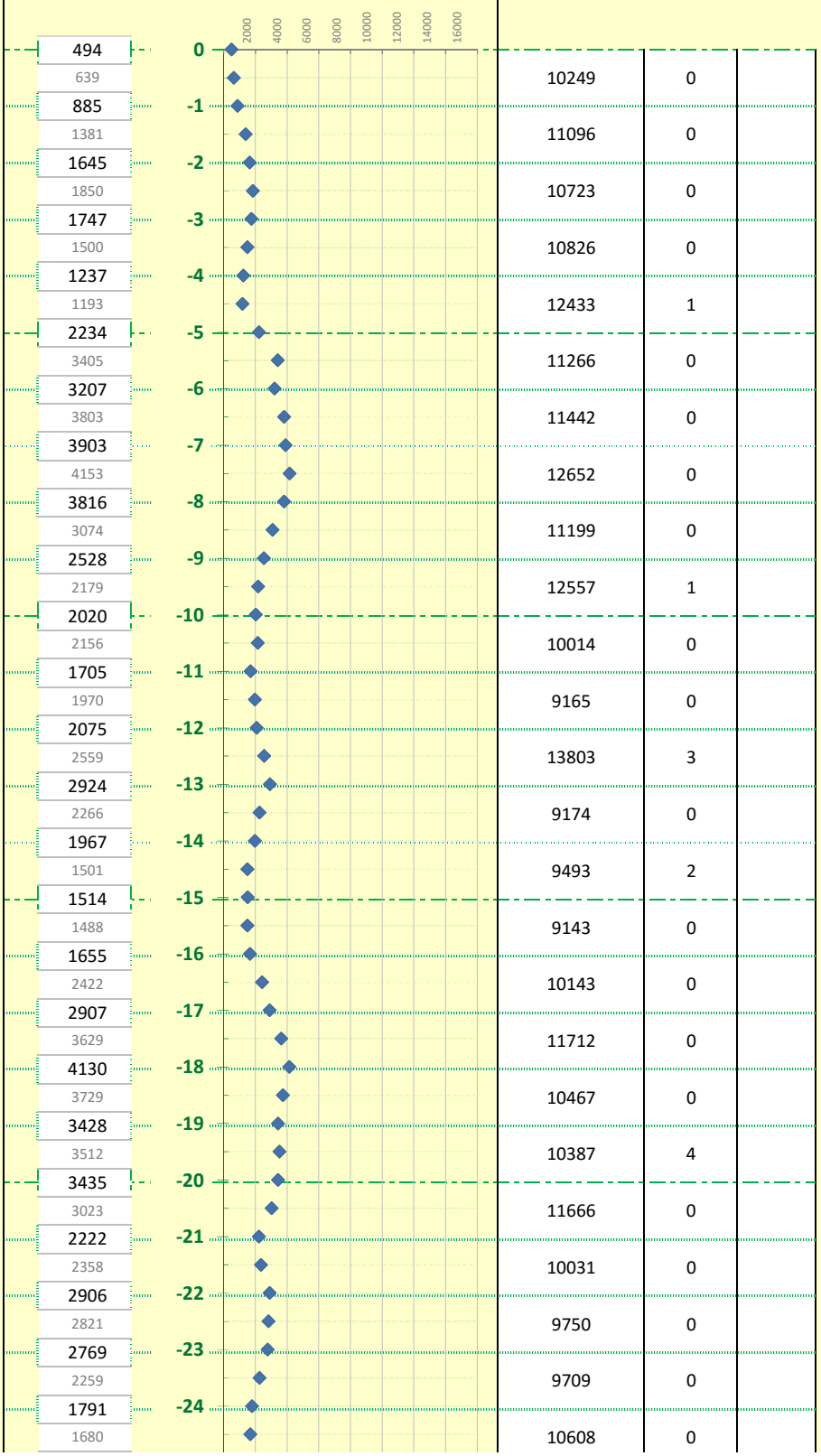
Area Bkg for Core Scan:

Gamma	9596	cpm
Alpha	3	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
494	0				
639		10249	0		
885	-1				
1381		11096	0		
1645	-2				
1850		10723	0		
1747	-3				
1500		10826	0		
1237	-4				
1193		12433	1		
2234	-5				
3405		11266	0		
3207	-6				
3803		11442	0		
3903	-7				
4153		12652	0		
3816	-8				
3074		11199	0		
2528	-9				
2179		12557	1		
2020	-10				
2156		10014	0		
1705	-11				
1970		9165	0		
2075	-12				
2559		13803	3		
2924	-13				
2266		9174	0		
1967	-14				
1501		9493	2		
1514	-15				
1488		9143	0		
1655	-16				
2422		10143	0		
2907	-17				
3629		11712	0		
4130	-18				
3729		10467	0		
3428	-19				
3512		10387	4		
3435	-20				
3023		11666	0		
2222	-21				
2358		10031	0		
2906	-22				
2821		9750	0		
2769	-23				
2259		9709	0		
1791	-24				
1680		10608	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-18**
Date Collected:	6/12/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9596	cpm
Alpha	3	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1951	-25					
1993			8499	0		
1774	-26					
2422			8286	0		
2472	-27					
2557			9916	0		
2354	-28					
1856			9654	0		
1389	-29					
1297			11205	0		
1589	-30					
2400			10601	1		
2834	-31					
3025			8848	0		
2961	-32					
3505			9678	2		
4008	-33					
3617			8376	0		
3413	-34					
2991			9890	0		
2827	-35					
2410			7605	0		
1859	-36					
1702			8615	0		
1558	-37					
1483			8992	0		
1540	-38					
1500			9938	0		
1857	-39					
2326			9008	0		
3403	-40					
3155			11521	4		
3285	-41					
3066			11562	3		
2323	-42					
2349			9990	0		
2425	-43					
2834			10621	0		
3587	-44					
3955			12539	3		
3942	-45					
4391			10973	0		
4107	-46					
4017			11771	0		
4154	-47					
3993			10663	4		
4124	-48					
4480			12422	0		
3477	-49					
3040			9957	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-18**
Date Collected:	6/12/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9596	cpm
Alpha	3	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2920	-50		11538	0		
2711	-51		10571	0		
	-52		9296	1		
	-53		8597	0		
	-54		8913	1		
	-55		10031	0		
	-56		9865	0		
	-57		11053	0		
	-58		11039	1		
	-59					
	-60					
	-61					
	-62					
	-63					
	-64					
	-65					
	-66					
	-67					
	-68					
	-69					
	-70					
	-71					
	-72					
	-73					
	-74					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-18**
Date Collected:	6/12/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9596	cpm
Alpha	3	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

NOTES:

Area Bkg for Core Scan:

Gamma	9596	cpm
Alpha	3	cpm

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-75	000 000 000 000 0000 2000 4000 6000				
	-76					
	-77					
	-78					
	-79					
	-80					
	-81					
	-82					
	-83					
	-84					
	-85					
	-86					
	-87					
	-88					
	-89					
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-18**
Date Collected:	6/12/2015
GPS Location 1:	
GPS Location 2:	

Alpha	3	cpm

Dose Reading (M19):

1 m Above Surface	4	µR/h
Contact	5	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-19
Date Collected:	6/30/2015
GPS Location 1:	
GPS Location 2:	

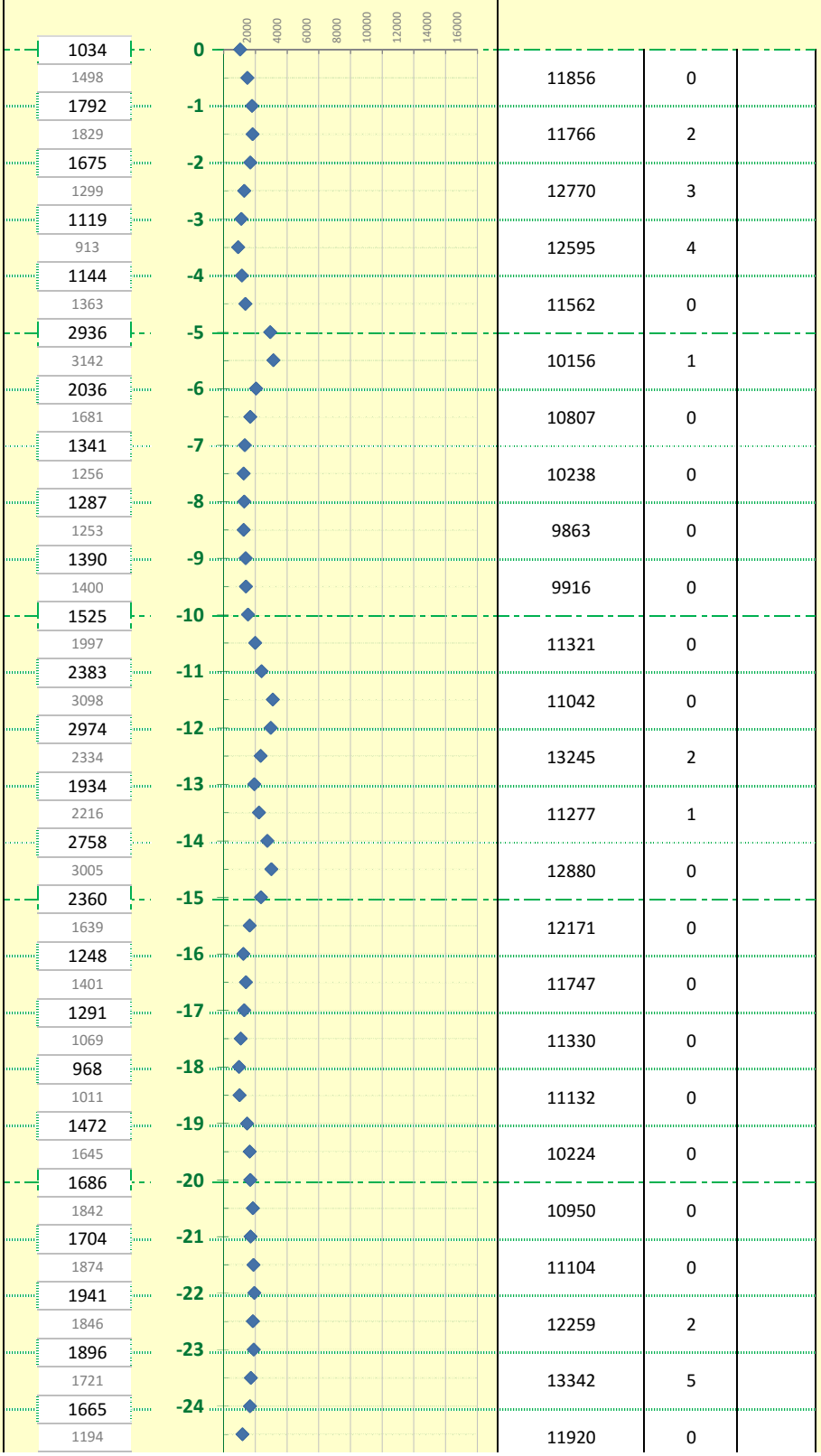
Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	8	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1034	0				
1498		11856	0		
1792	-1				
1829		11766	2		
1675	-2				
1299		12770	3		
1119	-3				
913		12595	4		
1144	-4				
1363		11562	0		
2936	-5				
3142		10156	1		
2036	-6				
1681		10807	0		
1341	-7				
1256		10238	0		
1287	-8				
1253		9863	0		
1390	-9				
1400		9916	0		
1525	-10				
1997		11321	0		
2383	-11				
3098		11042	0		
2974	-12				
2334		13245	2		
1934	-13				
2216		11277	1		
2758	-14				
3005		12880	0		
2360	-15				
1639		12171	0		
1248	-16				
1401		11747	0		
1291	-17				
1069		11330	0		
968	-18				
1011		11132	0		
1472	-19				
1645		10224	0		
1686	-20				
1842		10950	0		
1704	-21				
1874		11104	0		
1941	-22				
1846		12259	2		
1896	-23				
1721		13342	5		
1665	-24				
1194		11920	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-19
Date Collected:	6/30/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	8	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1020	-25					
774			11756	0		
727	-26					
694			11875	0		
742	-27					
819			11364	1		
877	-28					
985			10998	0		
1012	-29					
1074			11359	0		
1248	-30					
1591			10800	0		
2080	-31					
2955			10942	0		
3172	-32					
2852			11274	0		
1937	-33					
1184			11778	0		
1014	-34					
973			12875	0		
959	-35					
997			12802	2		
1008	-36					
1026			11242	0		
1308	-37					
1609			10810	0		
1580	-38					
1319			10983	0		
1091	-39					
928			10458	0		
857	-40					
970			9111	0		
1011	-41					
1073			11261	0		
1146	-42					
1473			10731	0		
2104	-43					
2945			10309	0		
3437	-44					
3387			9302	0		
3020	-45					
2077			10664	0		
1445	-46					
1157			13375	0		
1290	-47					
1367			10494	0		
2077	-48					
2843			10211	0		
3031	-49					
2821			11533	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-19**
Date Collected:	6/30/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	8	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
2099	-50					
1656			10759	0		
1794	-51					
1744			10342	0		
1797	-52					
2065			13076	3		
2428	-53					
2828			11571	0		
2824	-54					
2850			10078	1		
2246	-55					
1618			10891	0		
1597	-56					
1763			10712	0		
2066	-57					
2091			12316	2		
1657	-58					
1334			11941	0		
1142	-59					
1074			9570	0		
1198	-60					
1636			11913	2		
2177	-61					
2923			14014	4		
3159	-62					
3010			13707	2		
2867	-63					
2477			10498	0		
1936	-64					
1621			9866	0		
1637	-65					
1713			11177	0		
1992	-66					
2265			12940	4		
2451	-67					
2466			12620	2		
2555	-68					
2041			13016	1		
2108	-69					
2237			11152	0		
2566	-70					
2578			10709	0		
2860	-71					
2519			10103	0		
2208	-72					
1898			10074	0		
1840	-73					
2597			10179	0		
2347	-74					
2211			10700	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-19
Date Collected:	6/30/2015
GPS Location 1:	
GPS Location 2:	

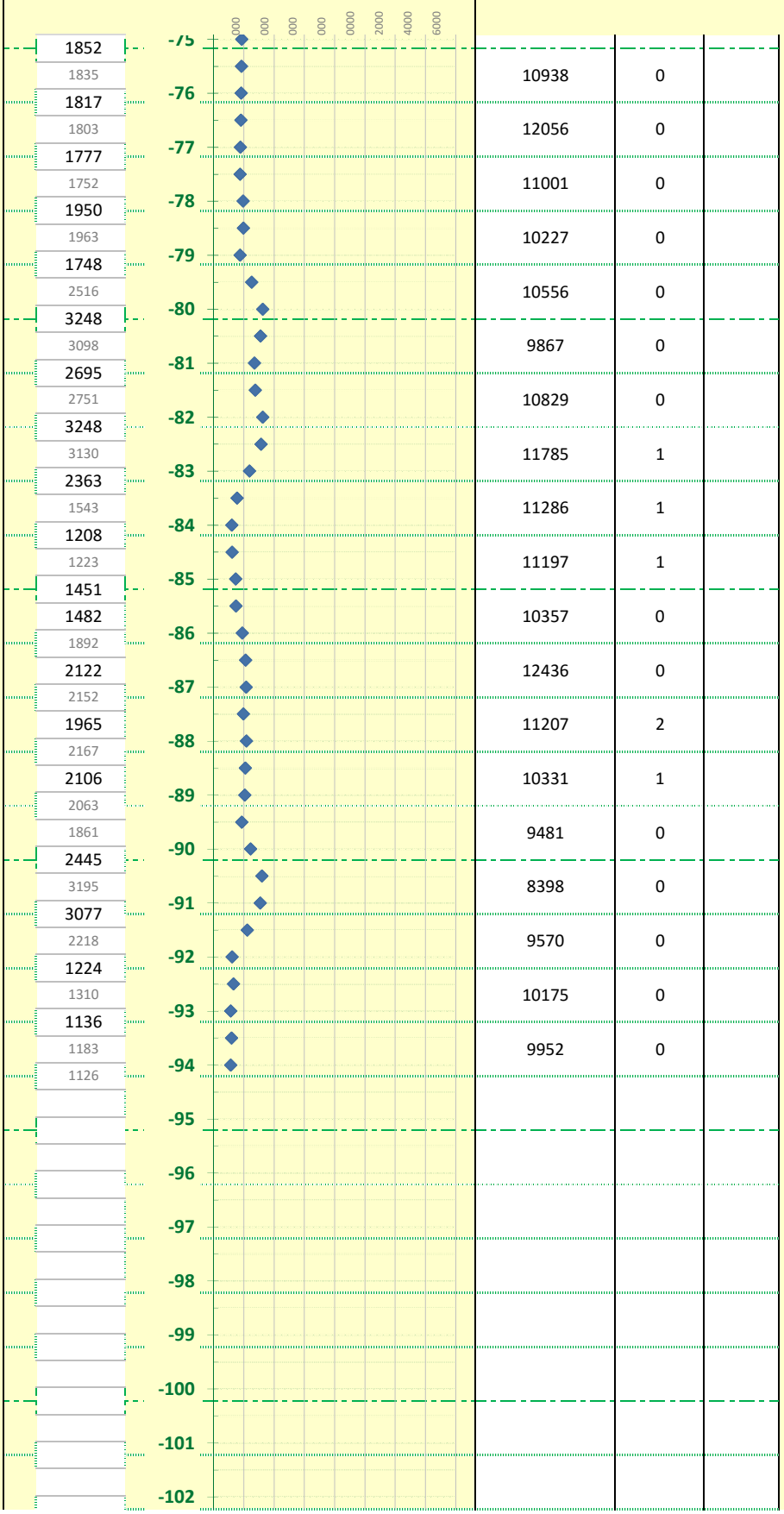
Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	8	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1852					
1835		10938	0		
1817					
1803		12056	0		
1777					
1752		11001	0		
1950					
1963		10227	0		
1748					
2516		10556	0		
3248					
3098		9867	0		
2695					
2751		10829	0		
3248					
3130		11785	1		
2363					
1543		11286	1		
1208					
1223		11197	1		
1451					
1482		10357	0		
1892					
2122		12436	0		
2152					
1965		11207	2		
2167					
2106		10331	1		
2063					
1861		9481	0		
2445					
3195		8398	0		
3077					
2218		9570	0		
1224					
1310		10175	0		
1136					
1183		9952	0		
1126					

Area Bkg for Core Scan:

Gamma	9329	cpm
Alpha	0	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	1D-19
Date Collected:	6/30/2015
GPS Location 1:	
GPS Location 2:	

Alpha	0	cpm
Dose Reading (M19):		
1 m Above Surface	5	µR/h
Contact	8	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-20**
Date Collected:	7/15/2015
GPS Location 1:	
GPS Location 2:	

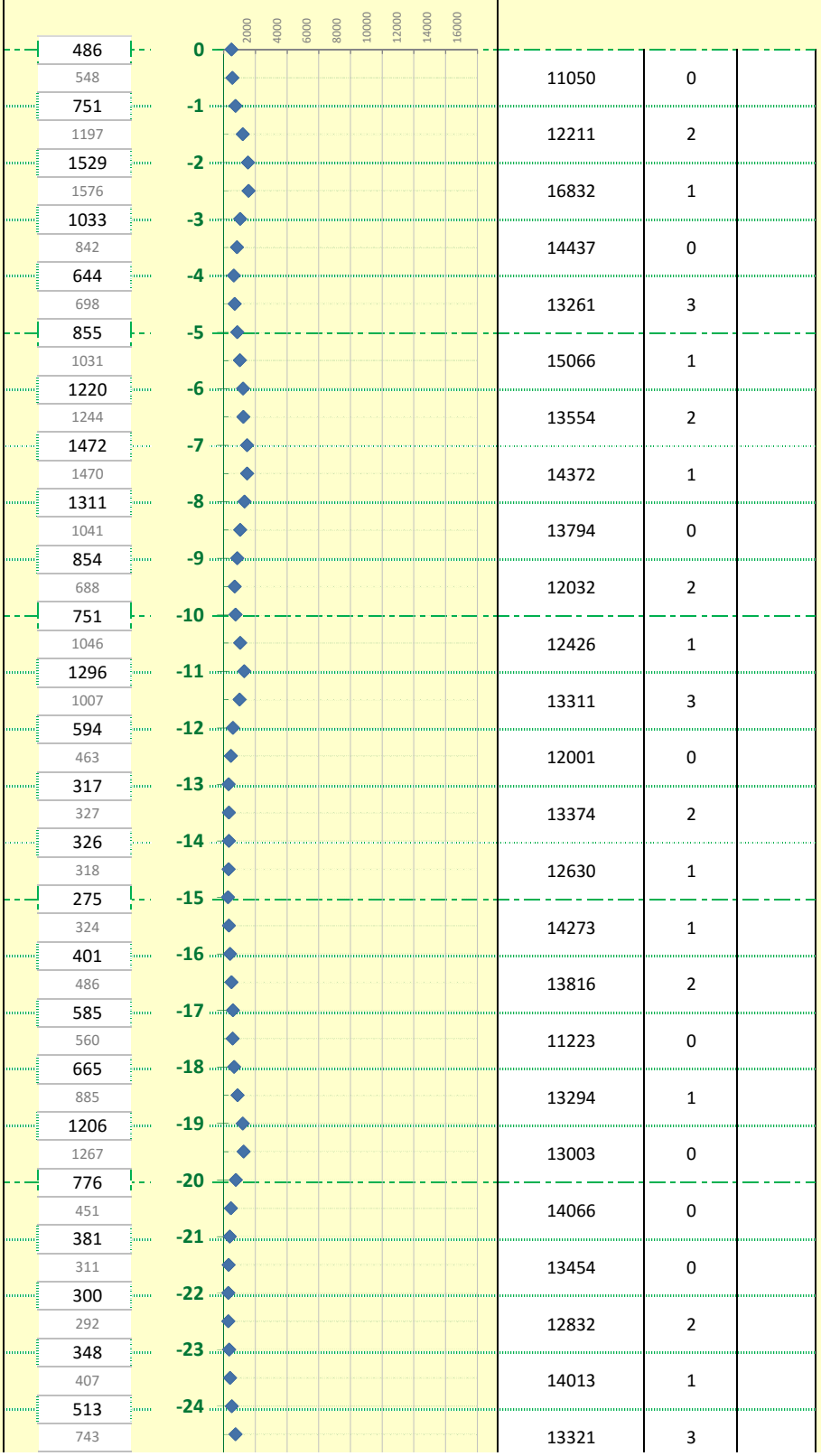
Area Bkg for Core Scan:

Gamma	10330	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:



Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
486	0				
548		11050	0		
751	-1				
1197		12211	2		
1529	-2				
1576		16832	1		
1033	-3				
842		14437	0		
644	-4				
698		13261	3		
855	-5				
1031		15066	1		
1220	-6				
1244		13554	2		
1472	-7				
1470		14372	1		
1311	-8				
1041		13794	0		
854	-9				
688		12032	2		
751	-10				
1046		12426	1		
1296	-11				
1007		13311	3		
594	-12				
463		12001	0		
317	-13				
327		13374	2		
326	-14				
318		12630	1		
275	-15				
324		14273	1		
401	-16				
486		13816	2		
585	-17				
560		11223	0		
665	-18				
885		13294	1		
1206	-19				
1267		13003	0		
776	-20				
451		14066	0		
381	-21				
311		13454	0		
300	-22				
292		12832	2		
348	-23				
407		14013	1		
513	-24				
743		13321	3		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-20**
Date Collected:	7/15/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10330	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
1046	-25					
1302			13323	0		
1255	-26					
831			13169	2		
670	-27					
339			12758	2		
271	-28					
274			12382	1		
286	-29					
302			10423	0		
446	-30					
327			10566	1		
363	-31					
375			10326	0		
436	-32					
481			12226	1		
505	-33					
699			12975	0		
917	-34					
808			13944	3		
726	-35					
553			14181	0		
396	-36					
1305			13181	0		
1442	-37					
1148			11376	1		
1187	-38					
1143			10745	2		
1185	-39					
1296			12091	2		
1262	-40					
1203			11154	0		
1087	-41					
1050			11378	2		
945	-42					
909			12357	0		
944	-43					
929			13286	1		
953	-44					
916			12759	1		
940	-45					
848			10586	1		
736	-46					
759			13880	0		
809	-47					
768			12272	1		
851	-48					
965			11051	0		
1008	-49					
921			10640	1		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-20**
Date Collected:	7/15/2015
GPS Location 1:	
GPS Location 2:	

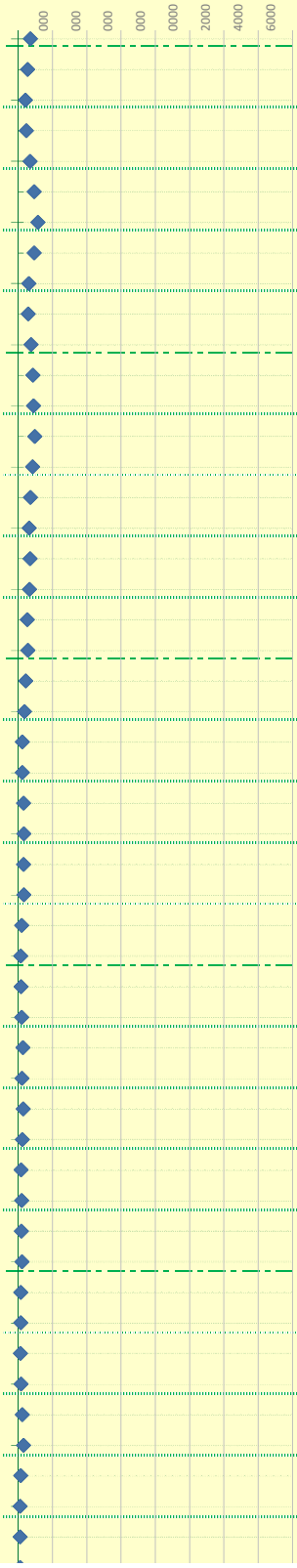
Area Bkg for Core Scan:

Gamma	10330	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
706	-50					
546			10453	0		
424	-51					
479			11338	0		
686	-52					
936			11362	2		
1148	-53					
927			12773	1		
624	-54					
590			13351	0		
746	-55					
863			11403	2		
900	-56					
967			12590	0		
843	-57					
715			11499	0		
636	-58					
688			13320	1		
656	-59					
535			11302	1		
562	-60					
440			11081	1		
375	-61					
242			12344	0		
247	-62					
318			13125	1		
325	-63					
306			12856	0		
333	-64					
195			10167	2		
154	-65					
160			13174	1		
211	-66					
268			11962	3		
213	-67					
290			12900	2		
230	-68					
172			10318	3		
207	-69					
188			11634	0		
225	-70					
144			12411	1		
139	-71					
129			12316	0		
162	-72					
244			11789	0		
309	-73					
155			13694	0		
120	-74					
115			13128	0		

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-20**
Date Collected:	7/15/2015
GPS Location 1:	
GPS Location 2:	

Area Bkg for Core Scan:

Gamma	10330	cpm
Alpha	1	cpm

Dose Reading (M19):

1 m Above Surface	5	µR/h
Contact	7	µR/h

NOTES:

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
120	-75					
147			13105	0		
170	-76					
332			13642	2		
307	-77					
322			11530	1		
269	-78					
257			12049	1		
310	-79					
184			11662	1		
130	-80					
152			11233	0		
136	-81					
145			11309	1		
253	-82					
344			12209	0		
326	-83					
330			11302	0		
302	-84					
290			12232	0		
255	-85					
272			13526	0		
243	-86					
239			13012	3		
279	-87					
			13181	1		
	-88					
			12453	2		
	-89					
			13607	0		
	-90					
	-91					
	-92					
	-93					
	-94					
	-95					
	-96					
	-97					
	-98					
	-99					
	-100					
	-101					
	-102					

Area Bkg for Core Scan:

Gamma	10330	cpm
Alpha	1	cpm

A&A BOREHOLE LOGGING REPORT (0' - 125')

Sample Core ID:	**1D-20**
Date Collected:	7/15/2015
GPS Location 1:	
GPS Location 2:	

Alpha	1	cpm

Dose Reading (M19):

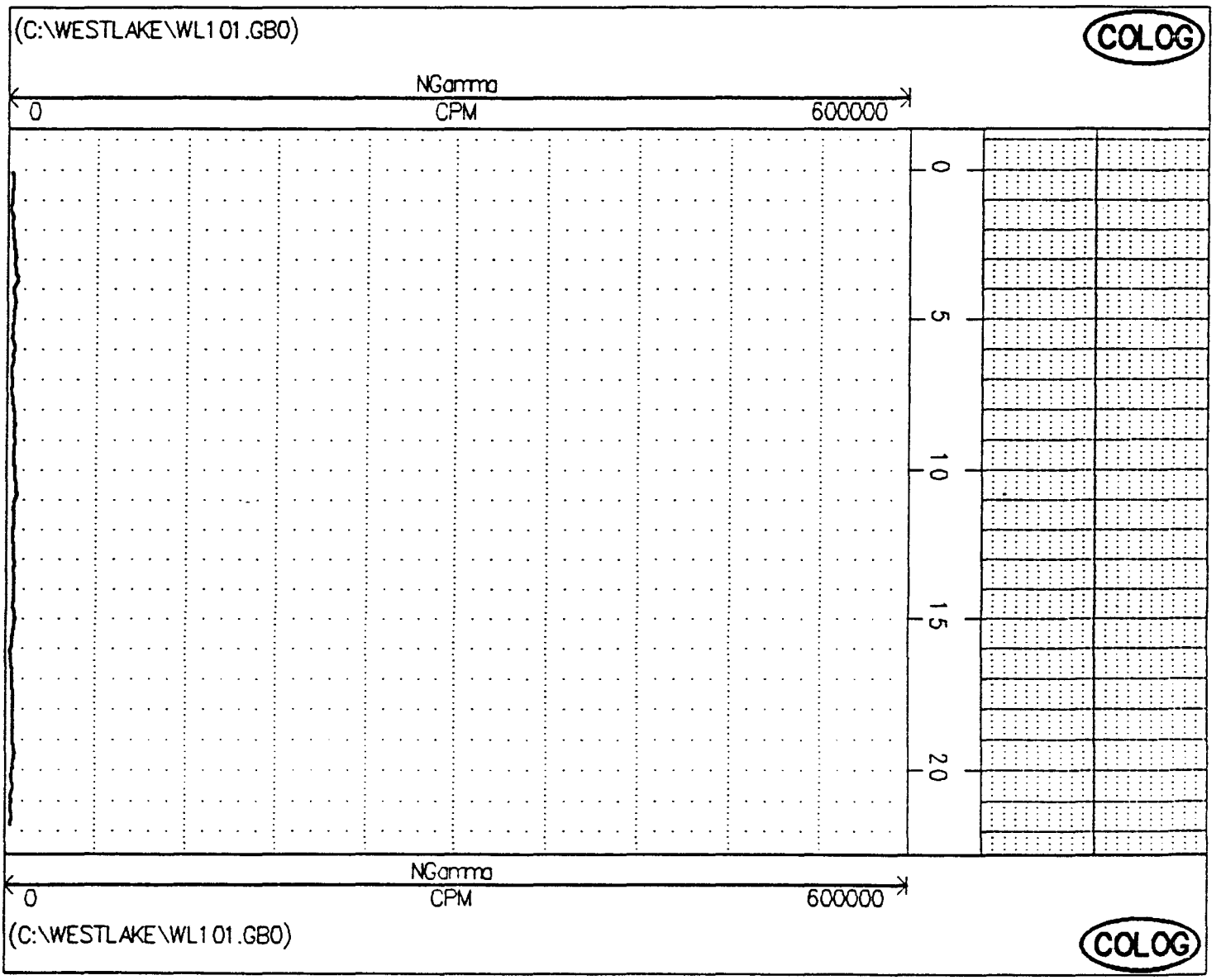
1 m Above Surface	5	µR/h
Contact	7	µR/h

Borehole Log 1"NaI (44-2) Response (cpm)	Depth (feet)	Downhole Radiological Profile	Core Scan 3"NaI (Gamma) Response (cpm)	Core Scan Alpha Response (cpm)	Sample Collected	Sample Shipped
	-103					
	-104					
	-105					
	-106					
	-107					
	-108					
	-109					
	-110					

Appendix C-3:

McLaren Hart Area 1 RI Boring Downhole Logs

Area 1 Soil Boring
Downhole Gamma Logs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CPM
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15
20
NGamma
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CPM
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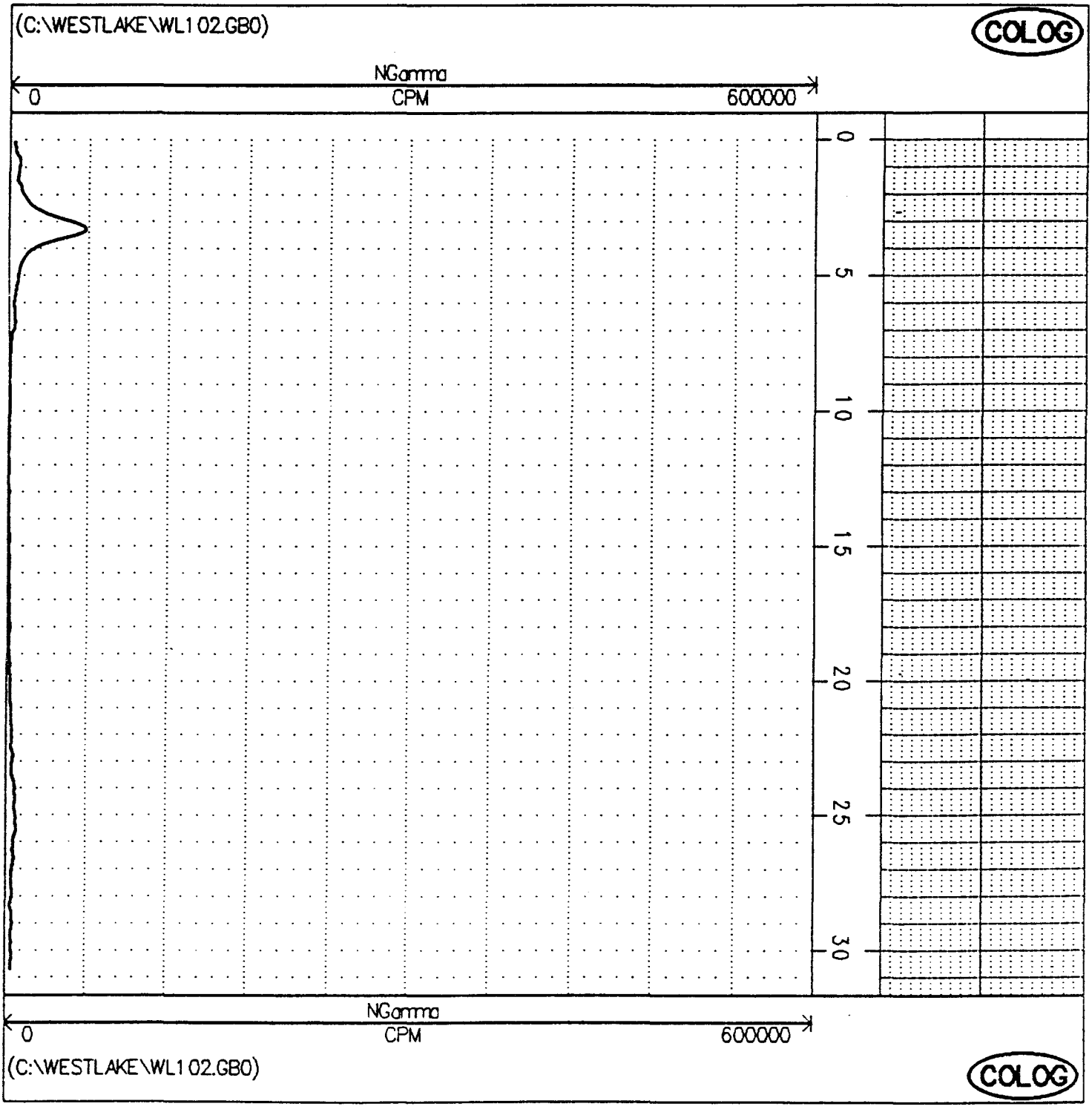
COLOG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CPM
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CPM
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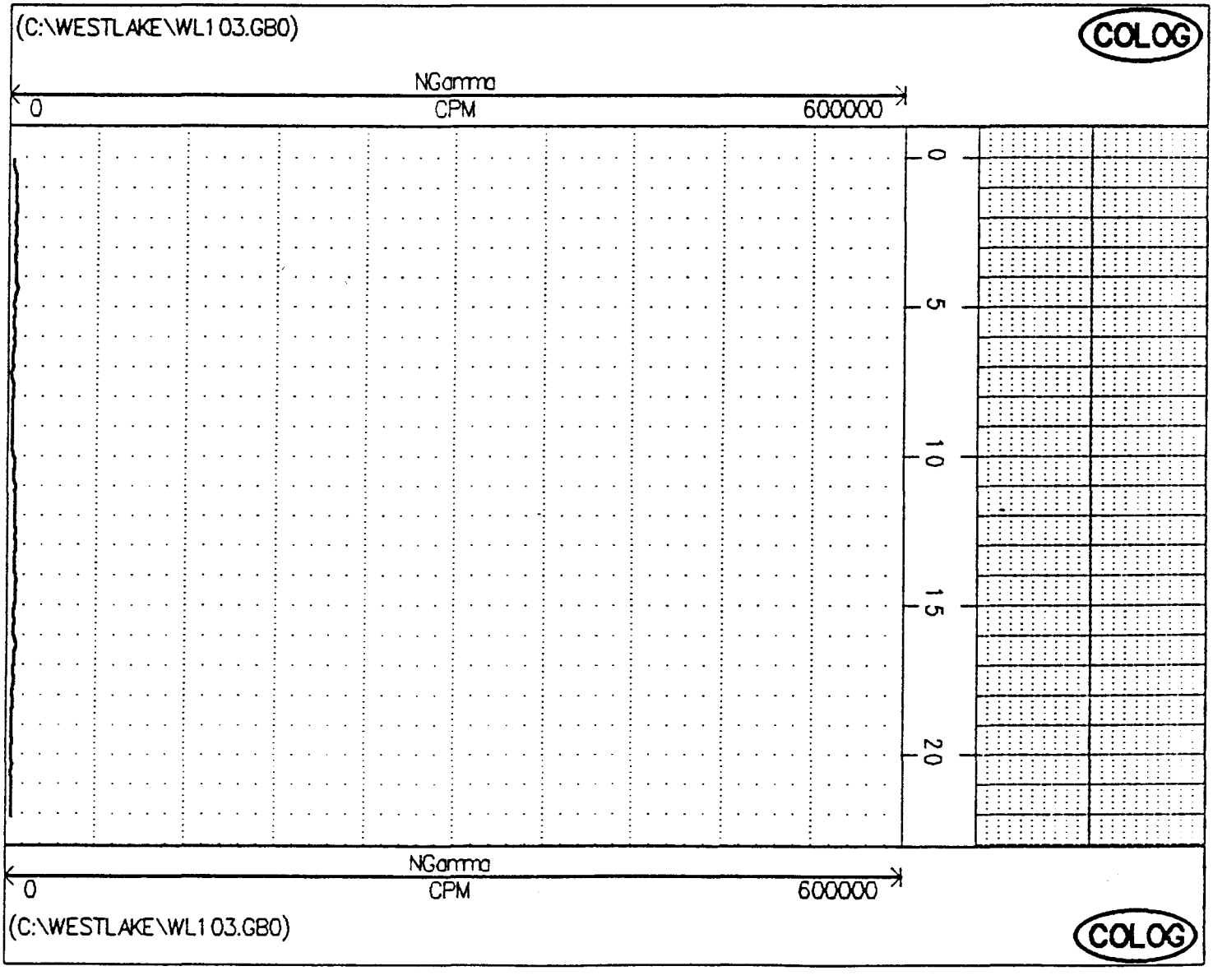
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CPM
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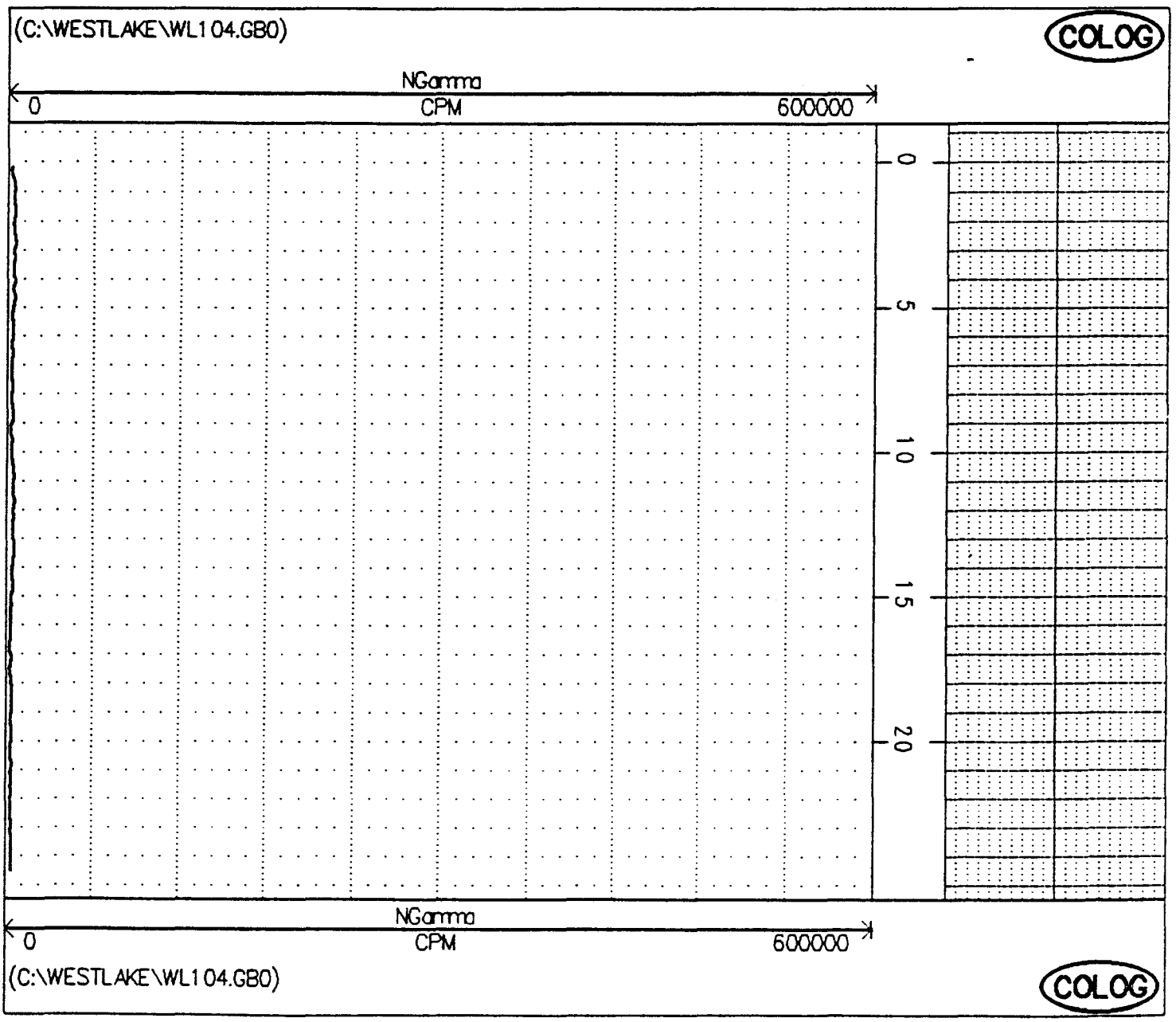
COLOG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CPM
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10
15
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NGamma
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CPM
600000
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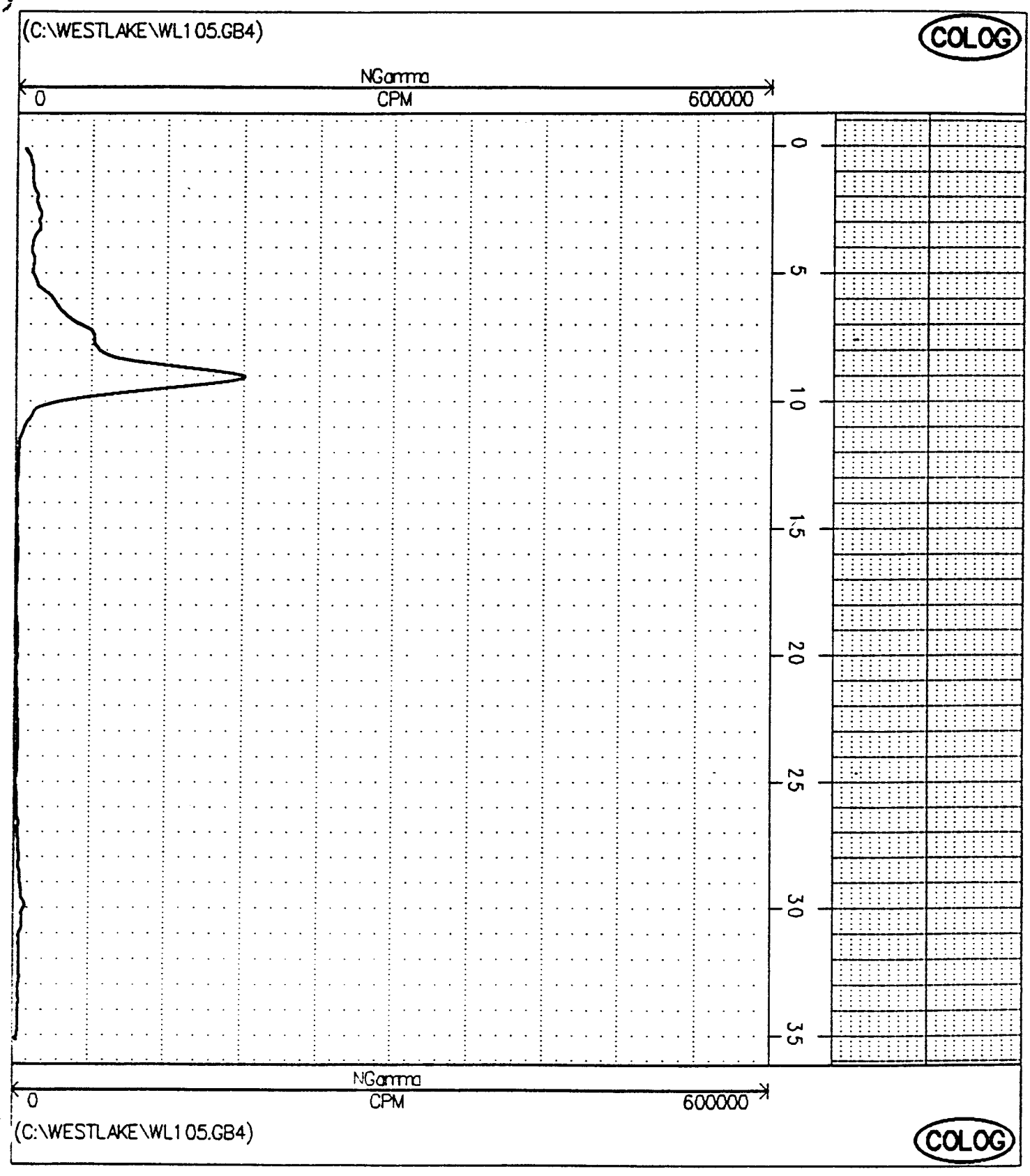
COLOG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CPM
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NGamma
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CPM
600000
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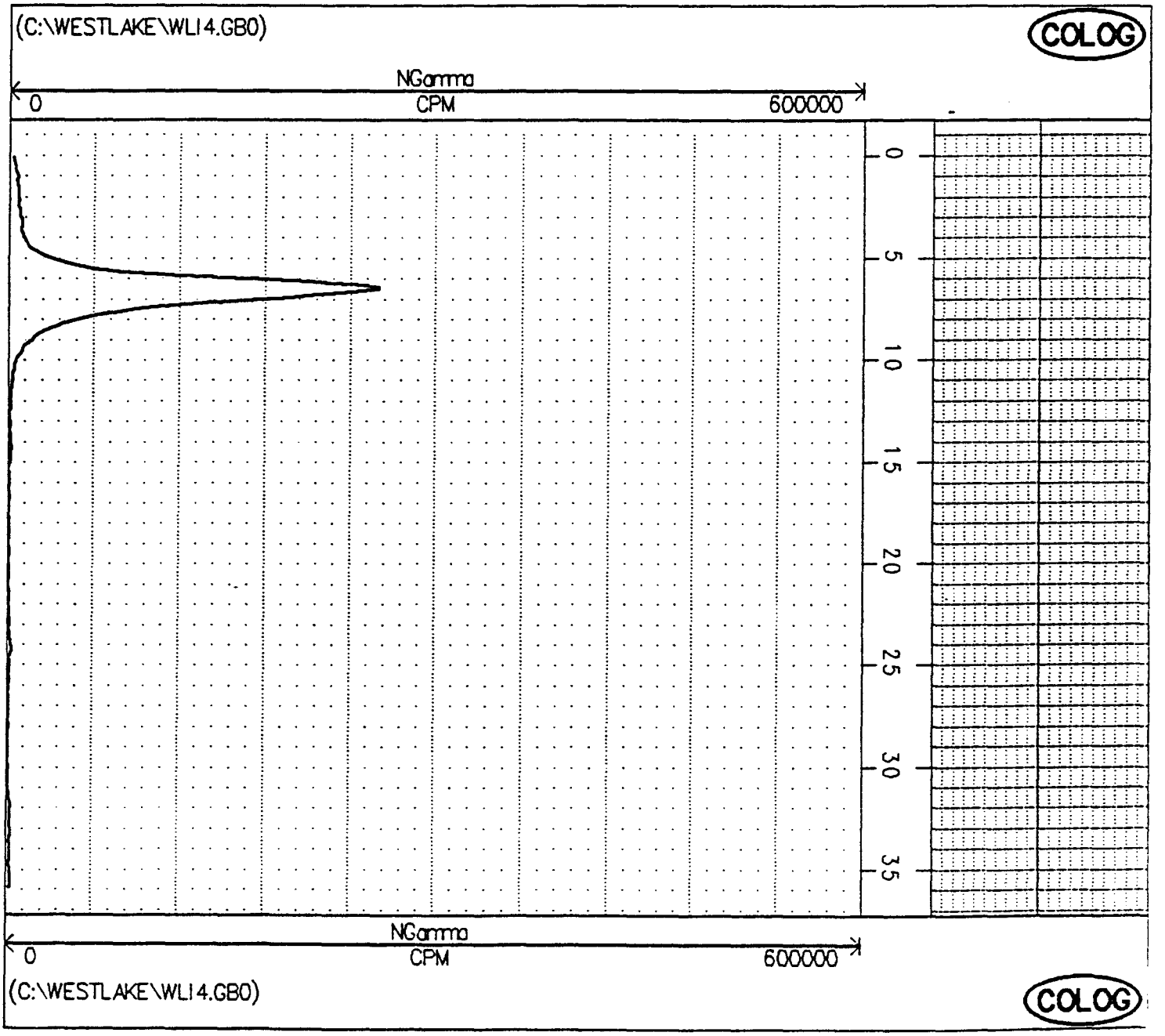
COLOG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CPM
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CPM
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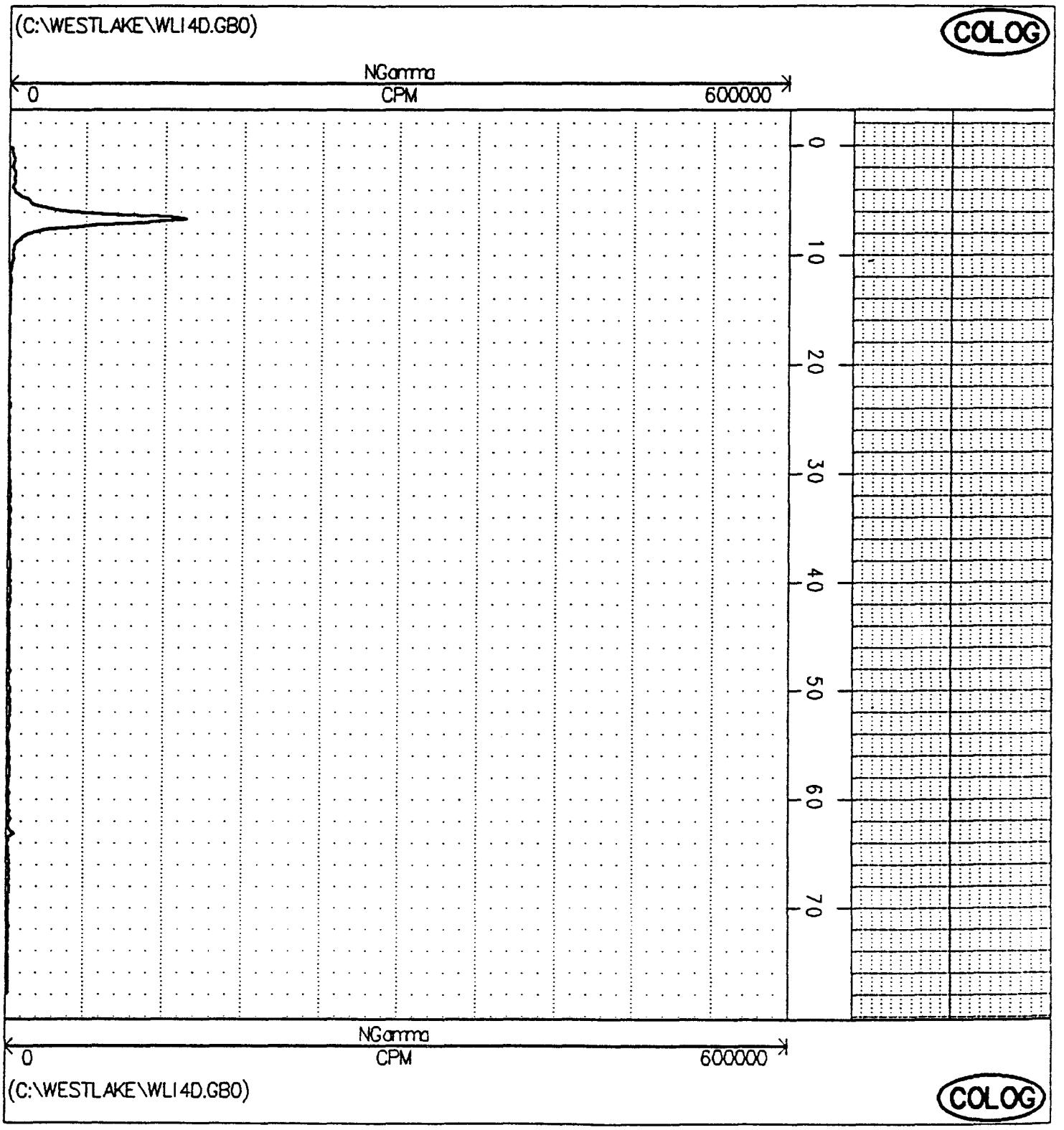
COLOG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CPM
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CPM
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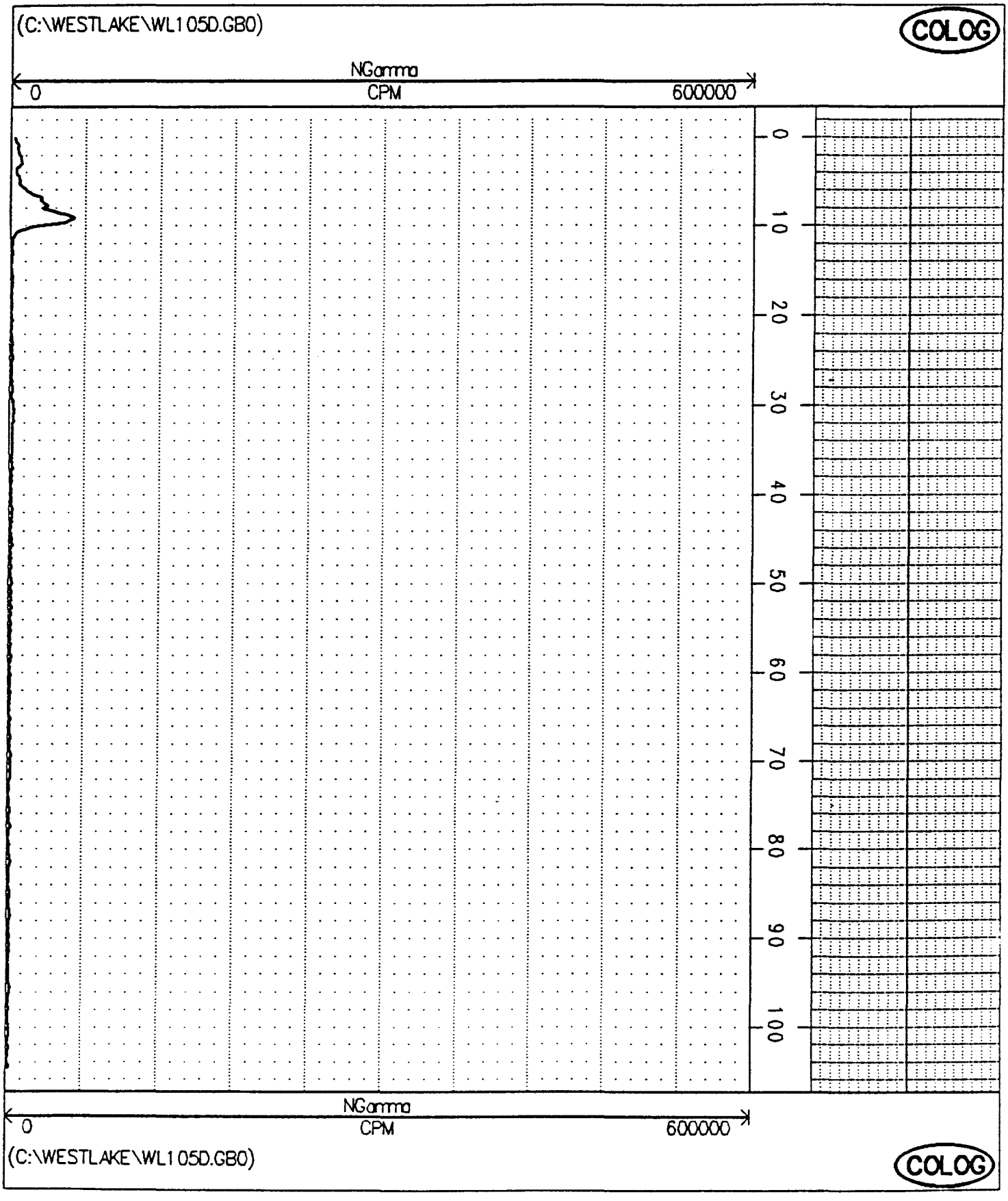
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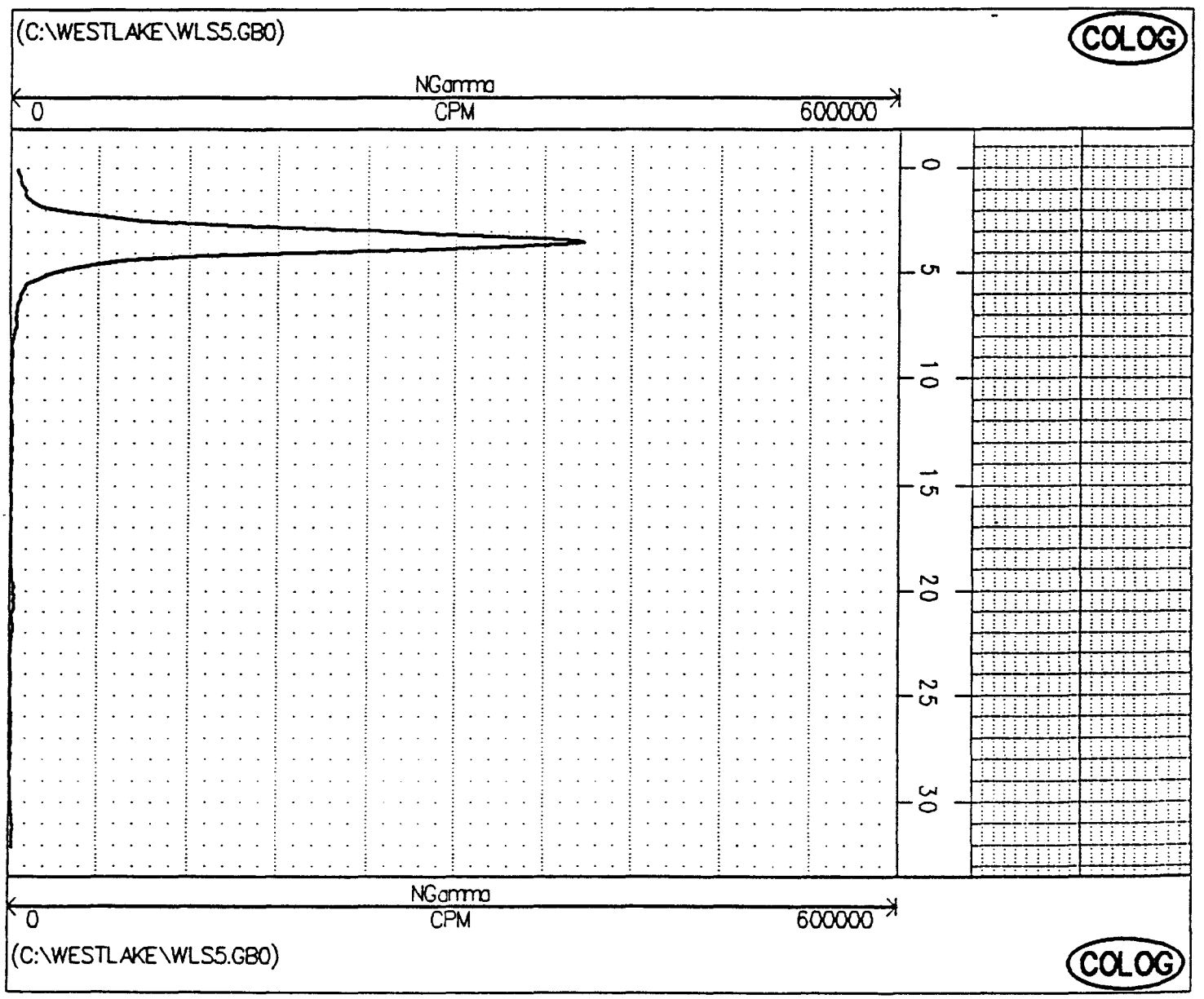
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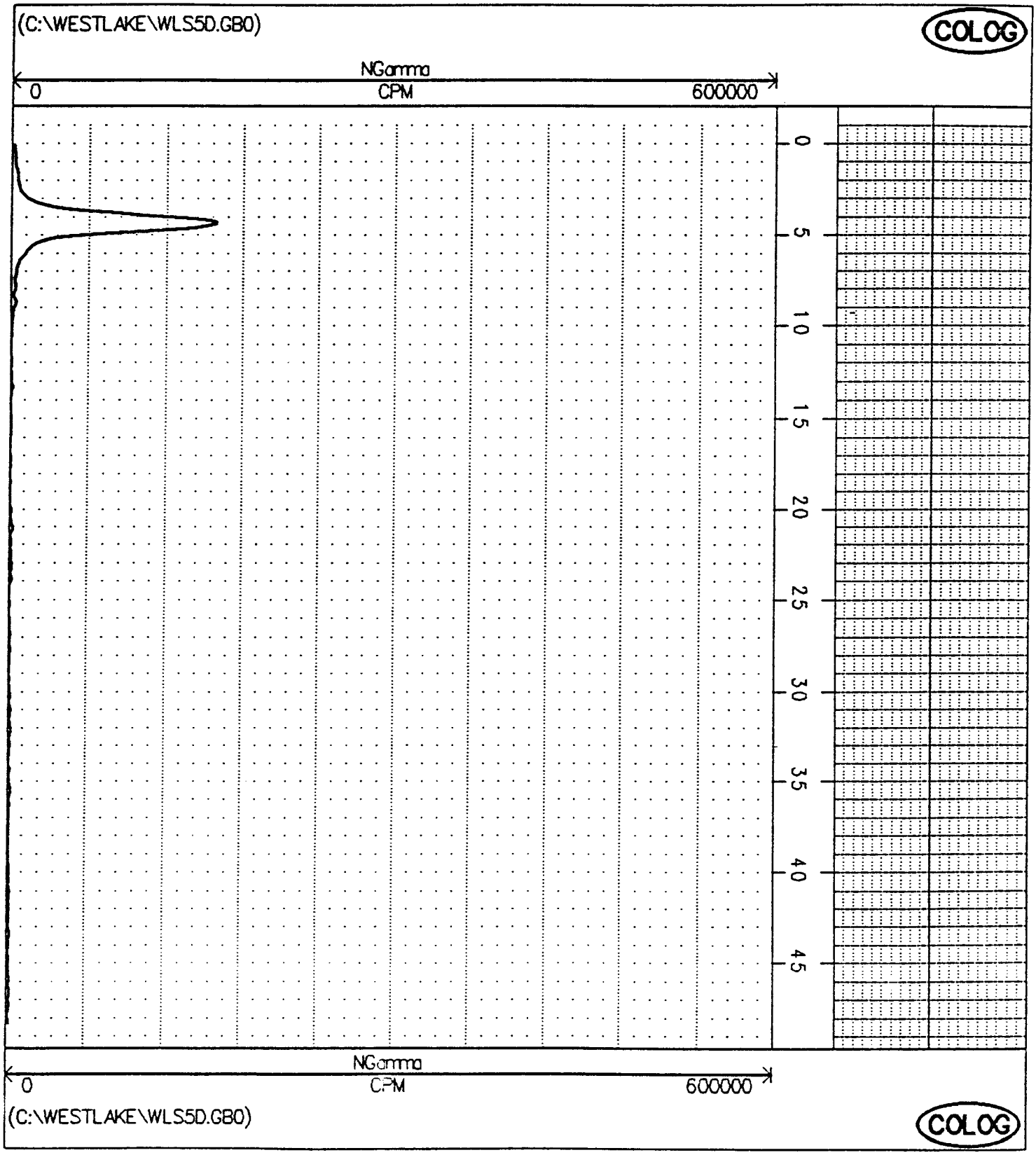
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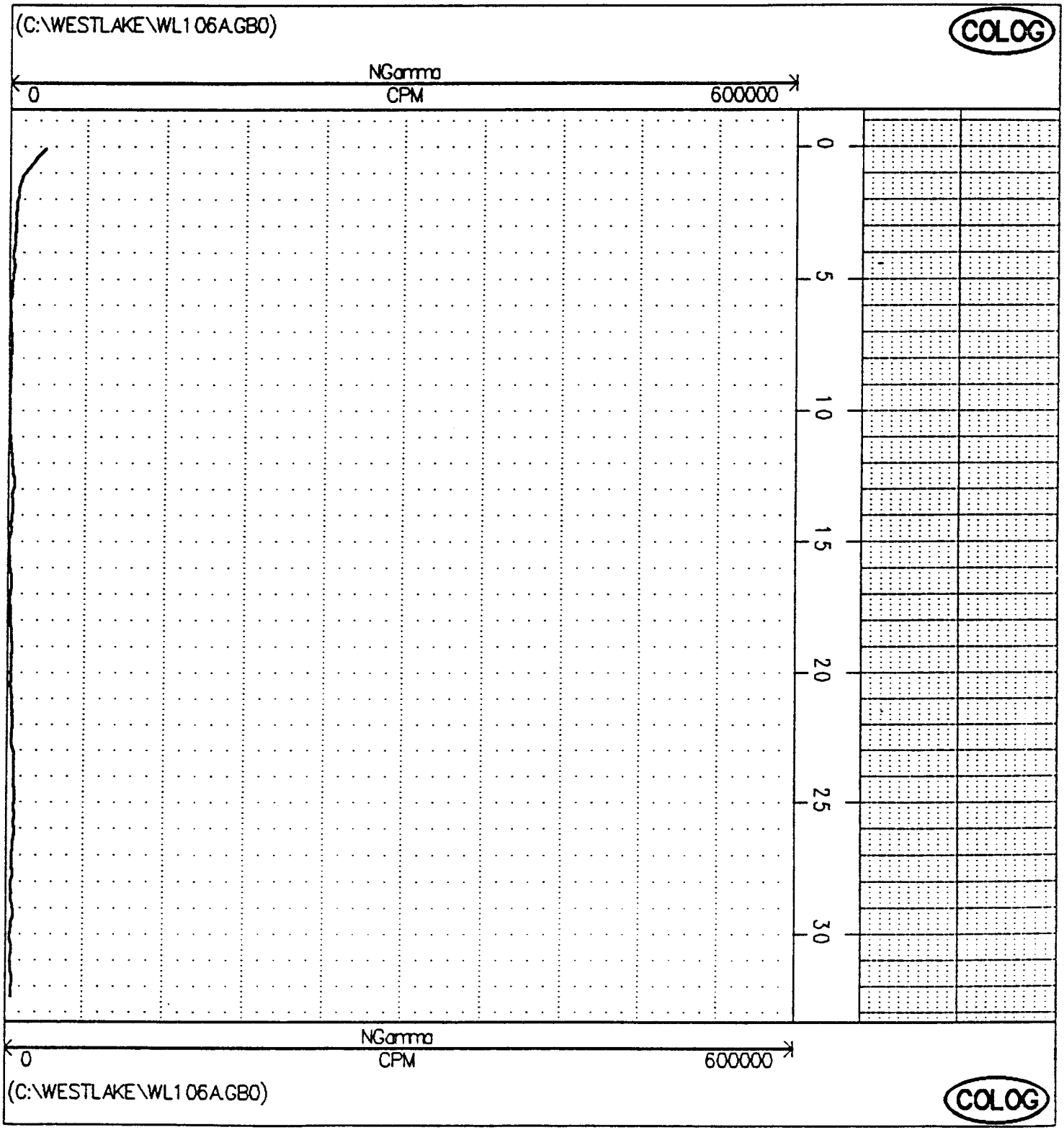
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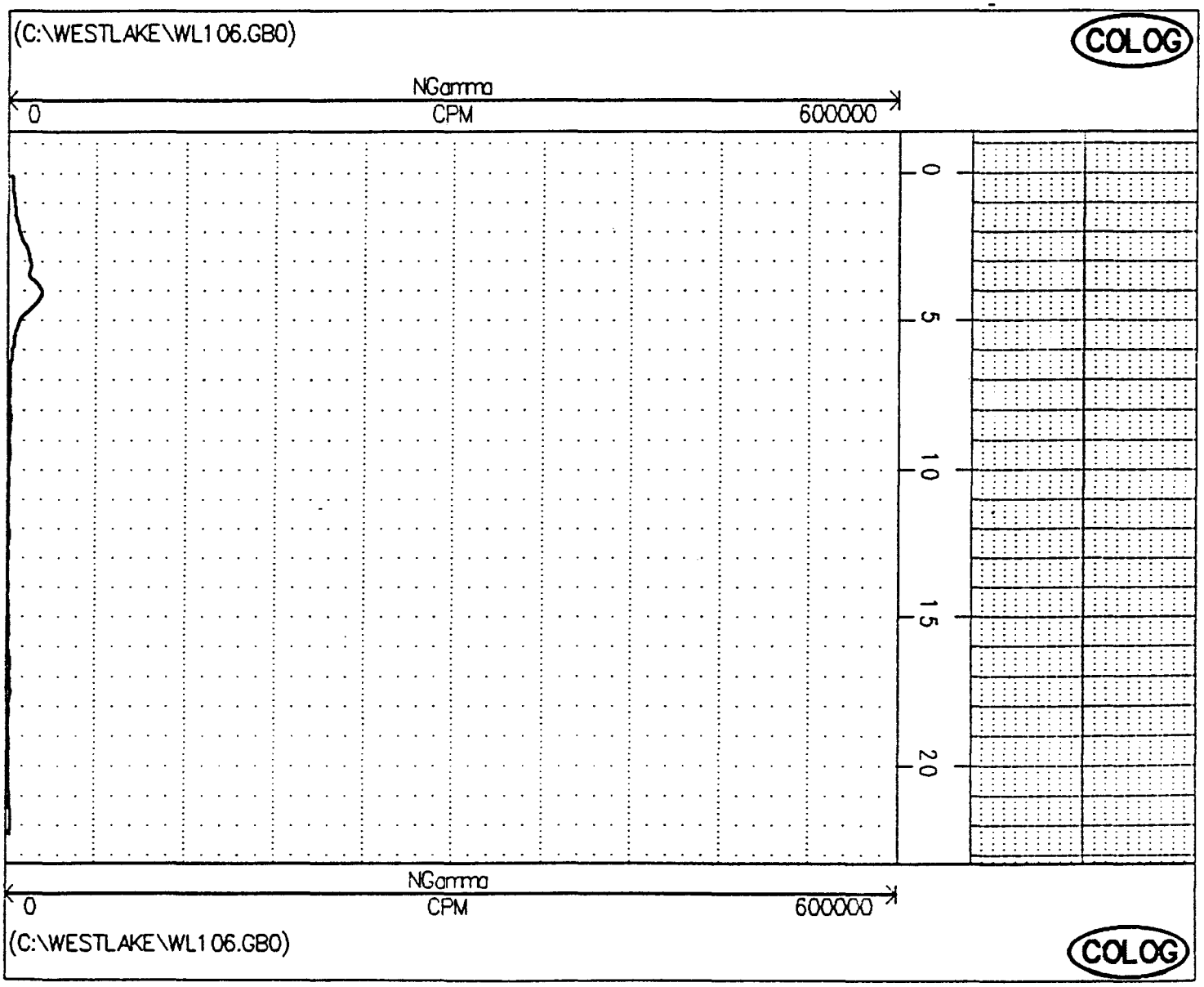
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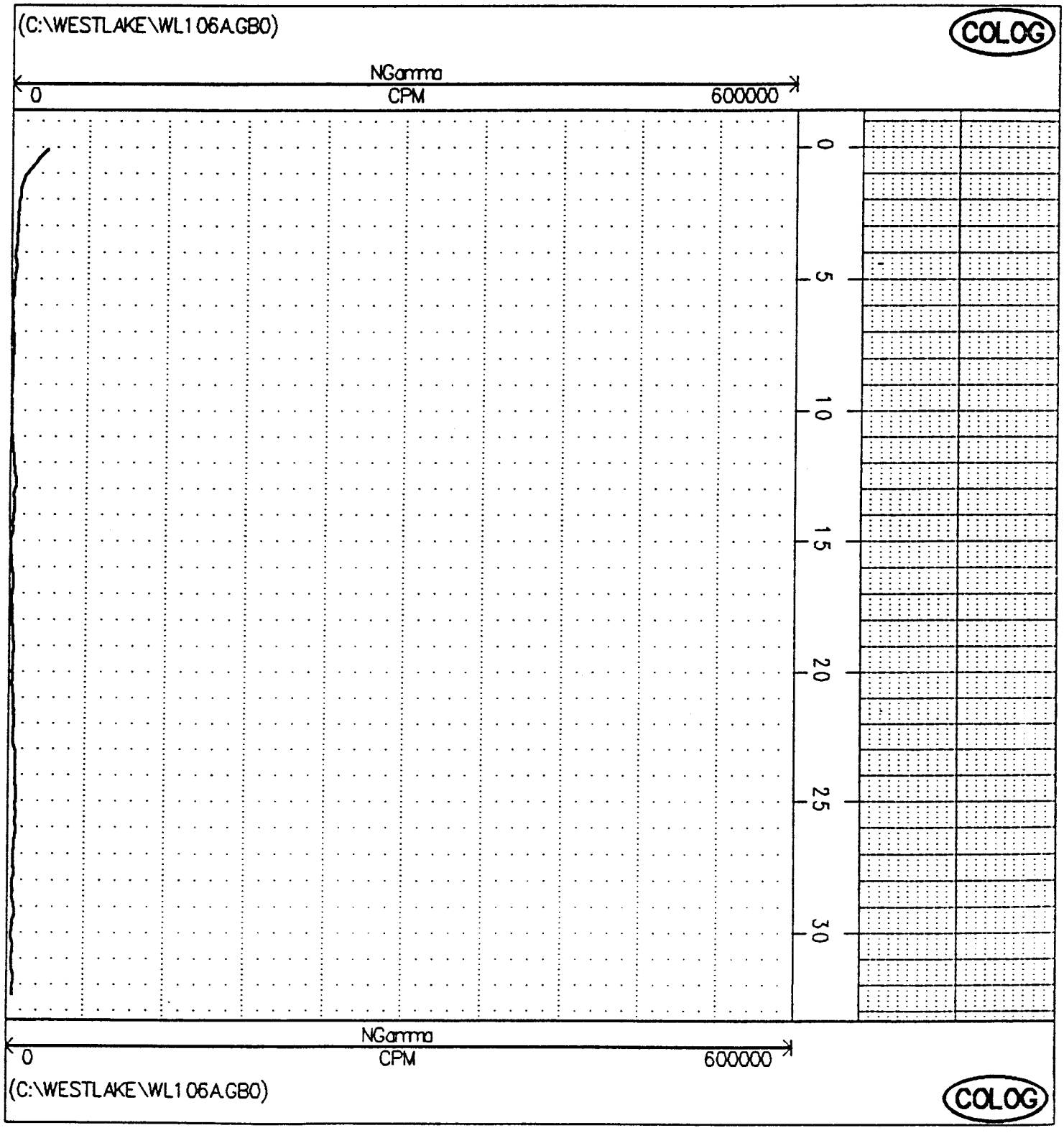
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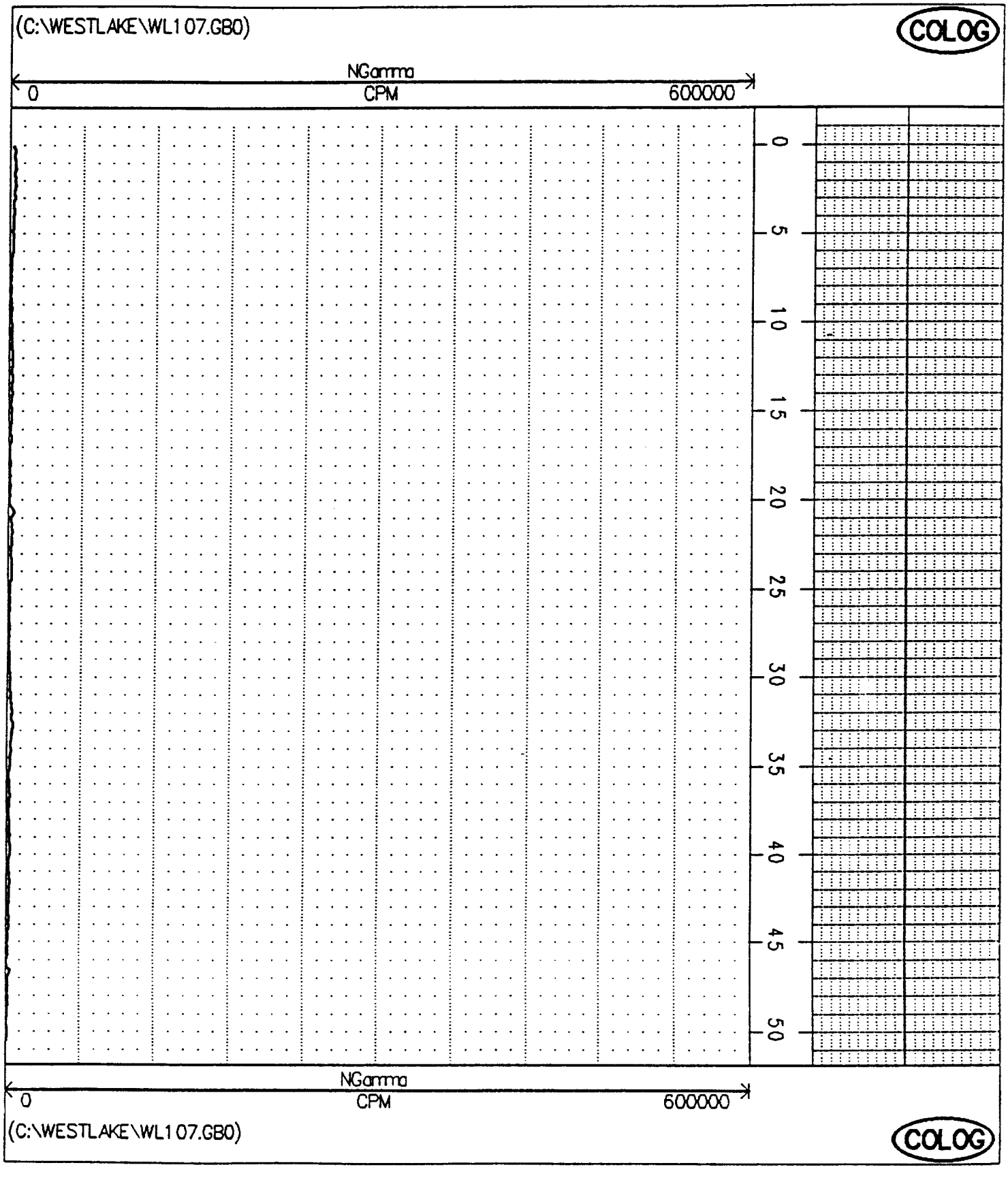
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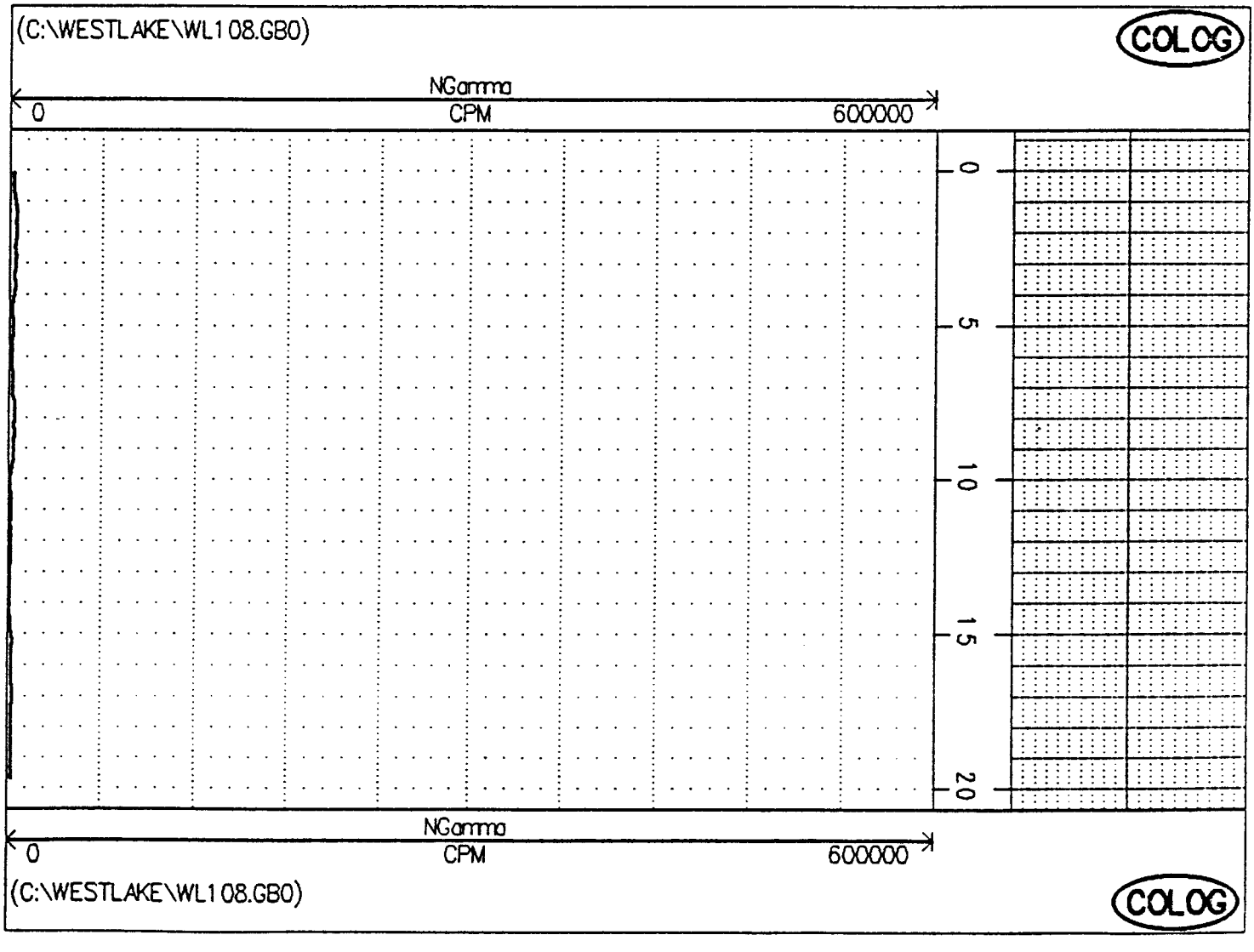
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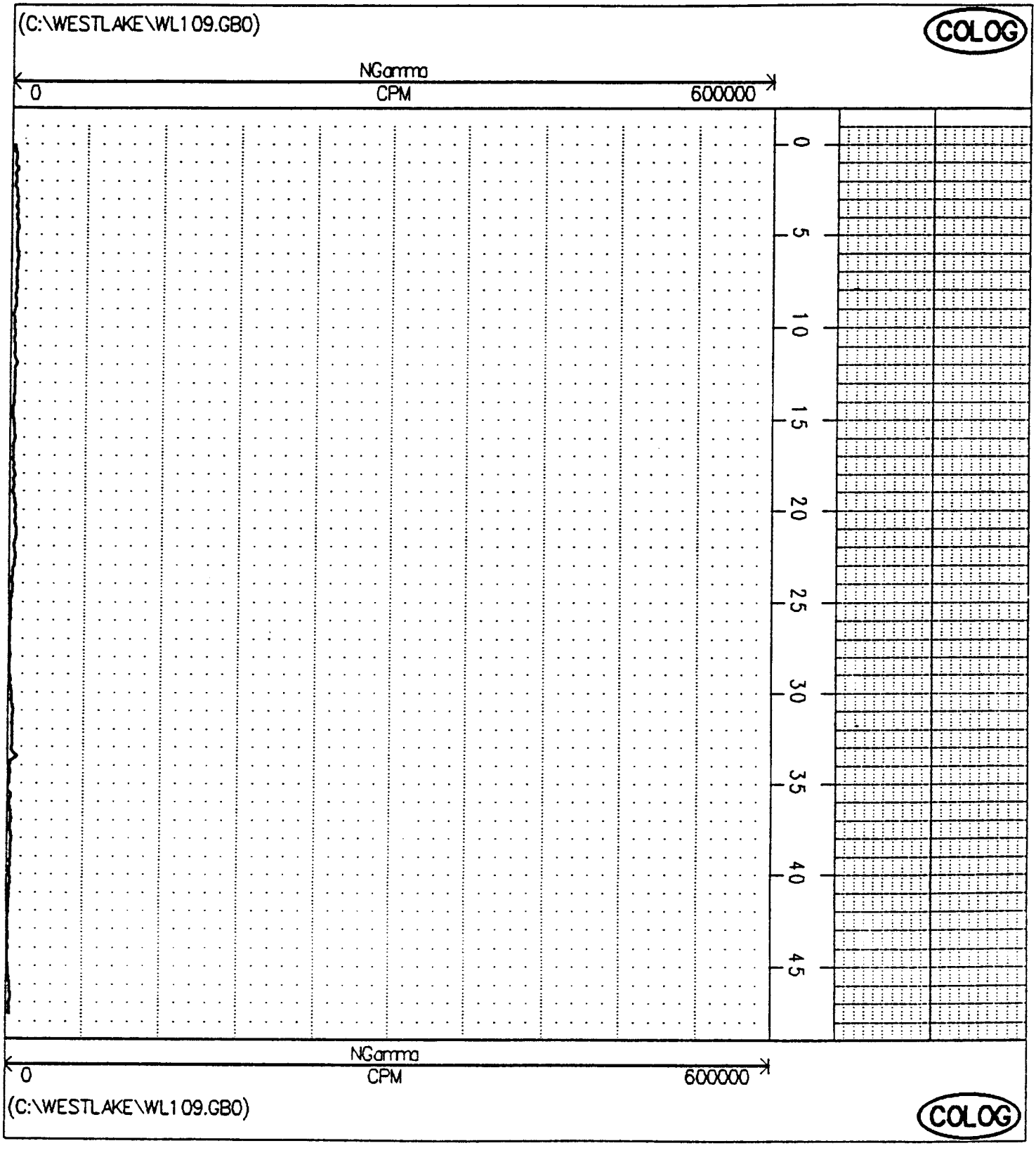
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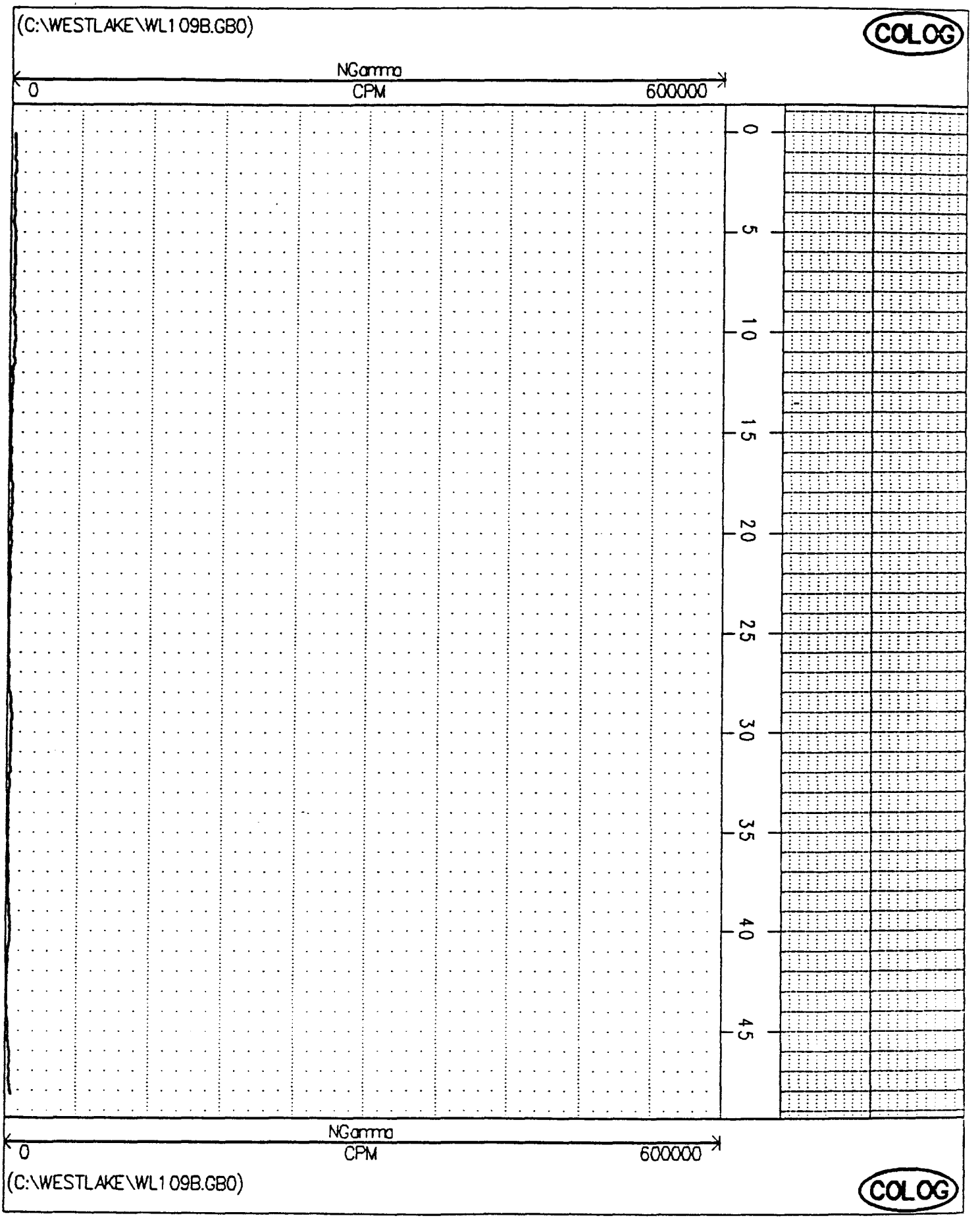
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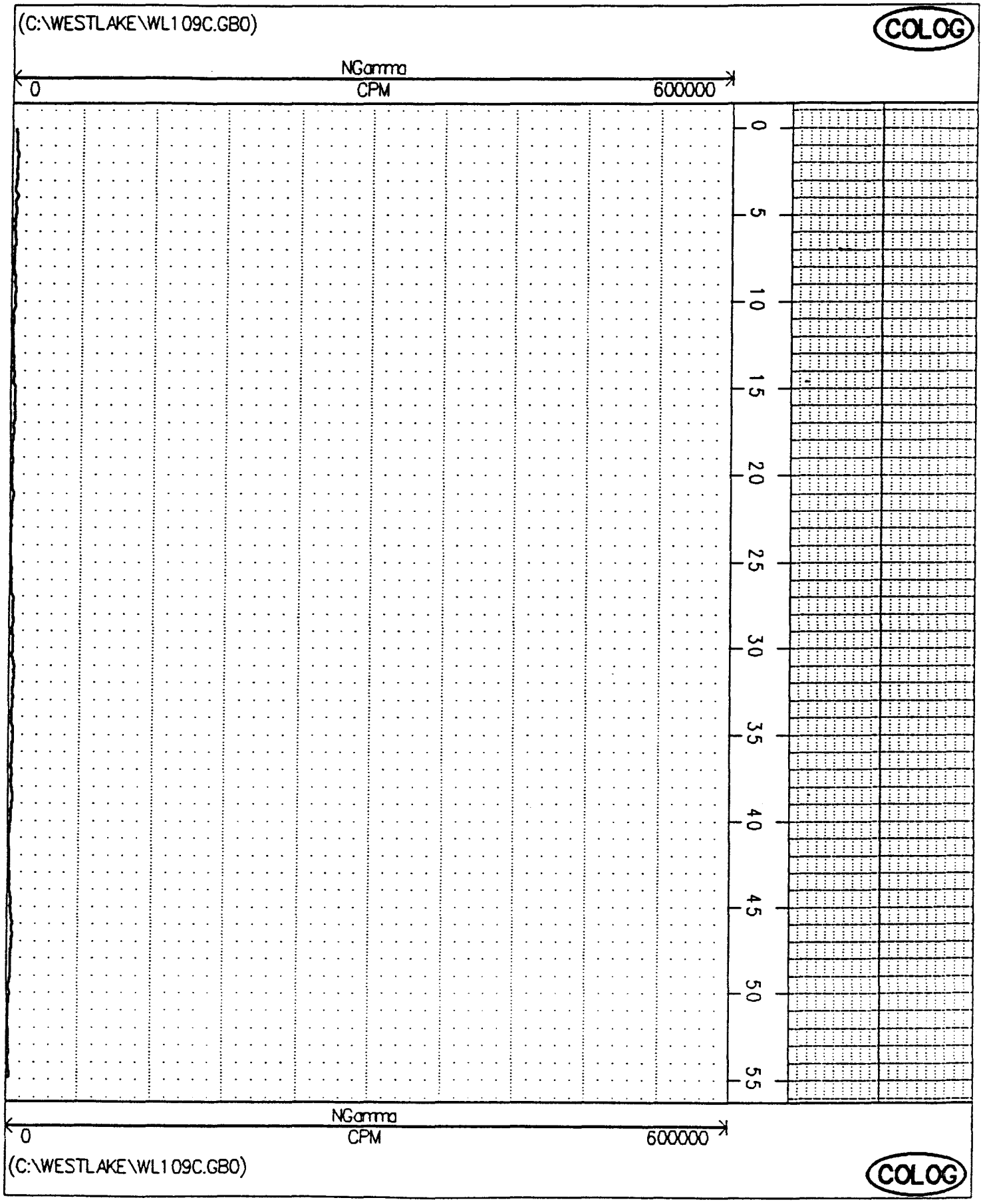
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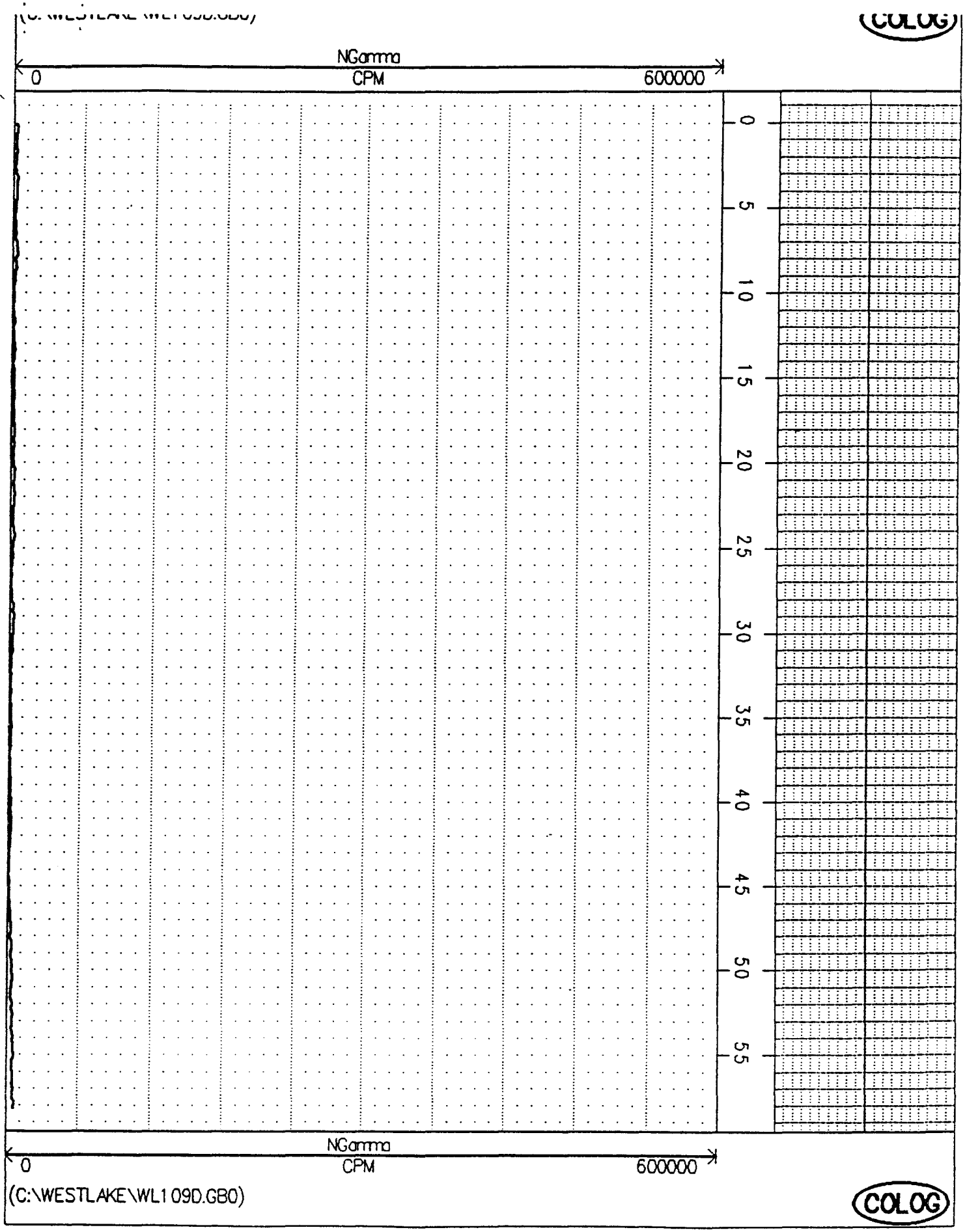
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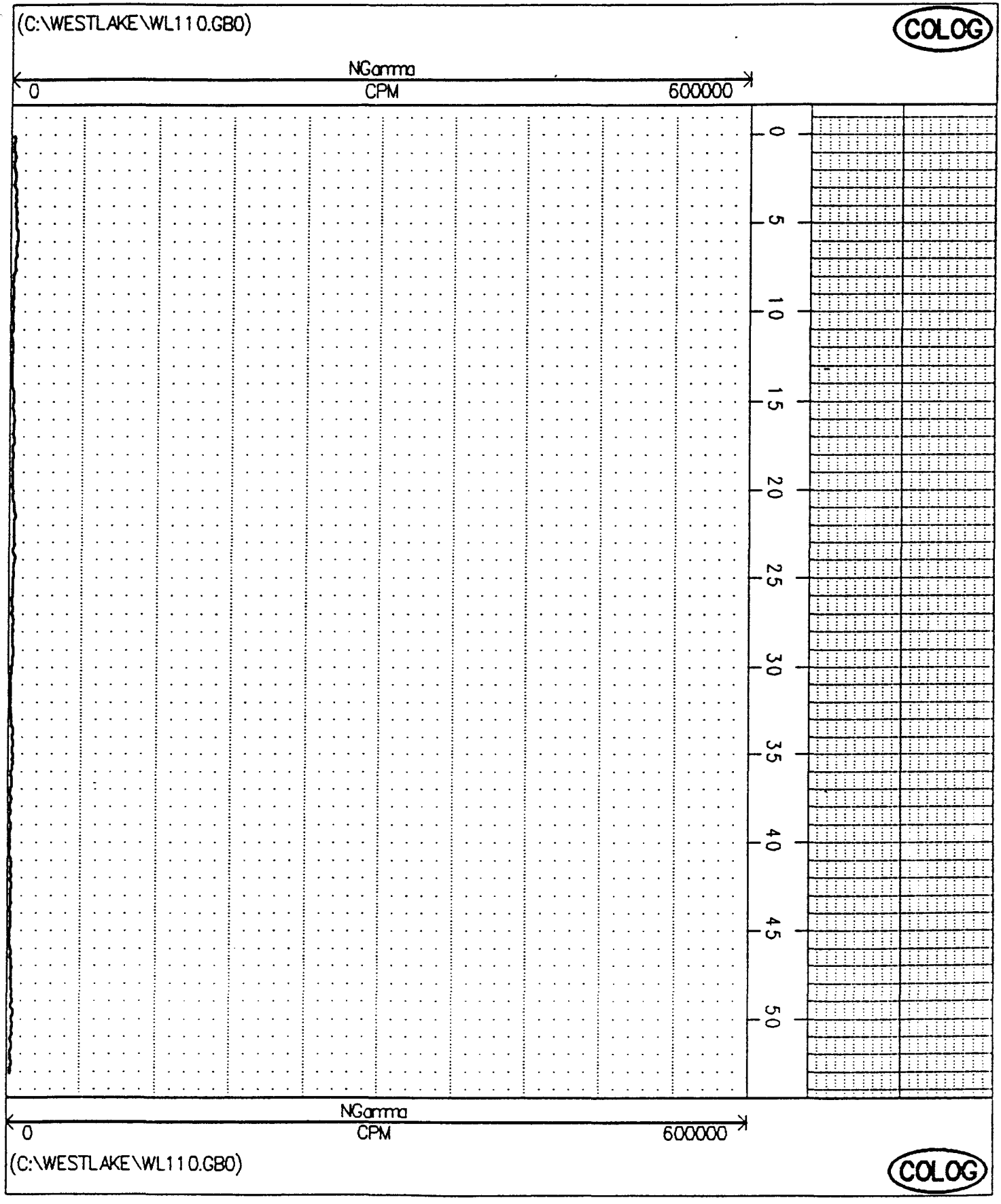
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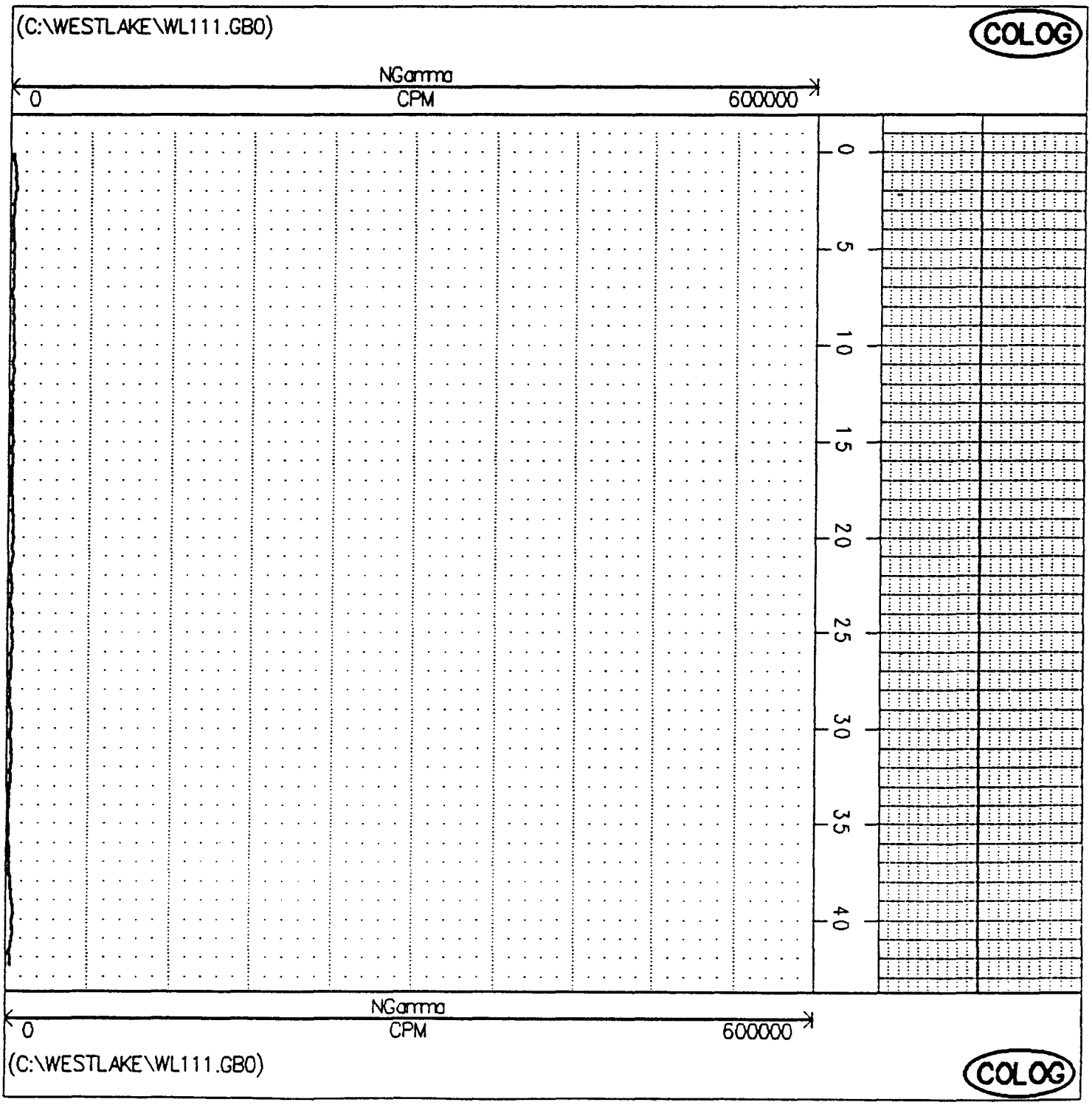
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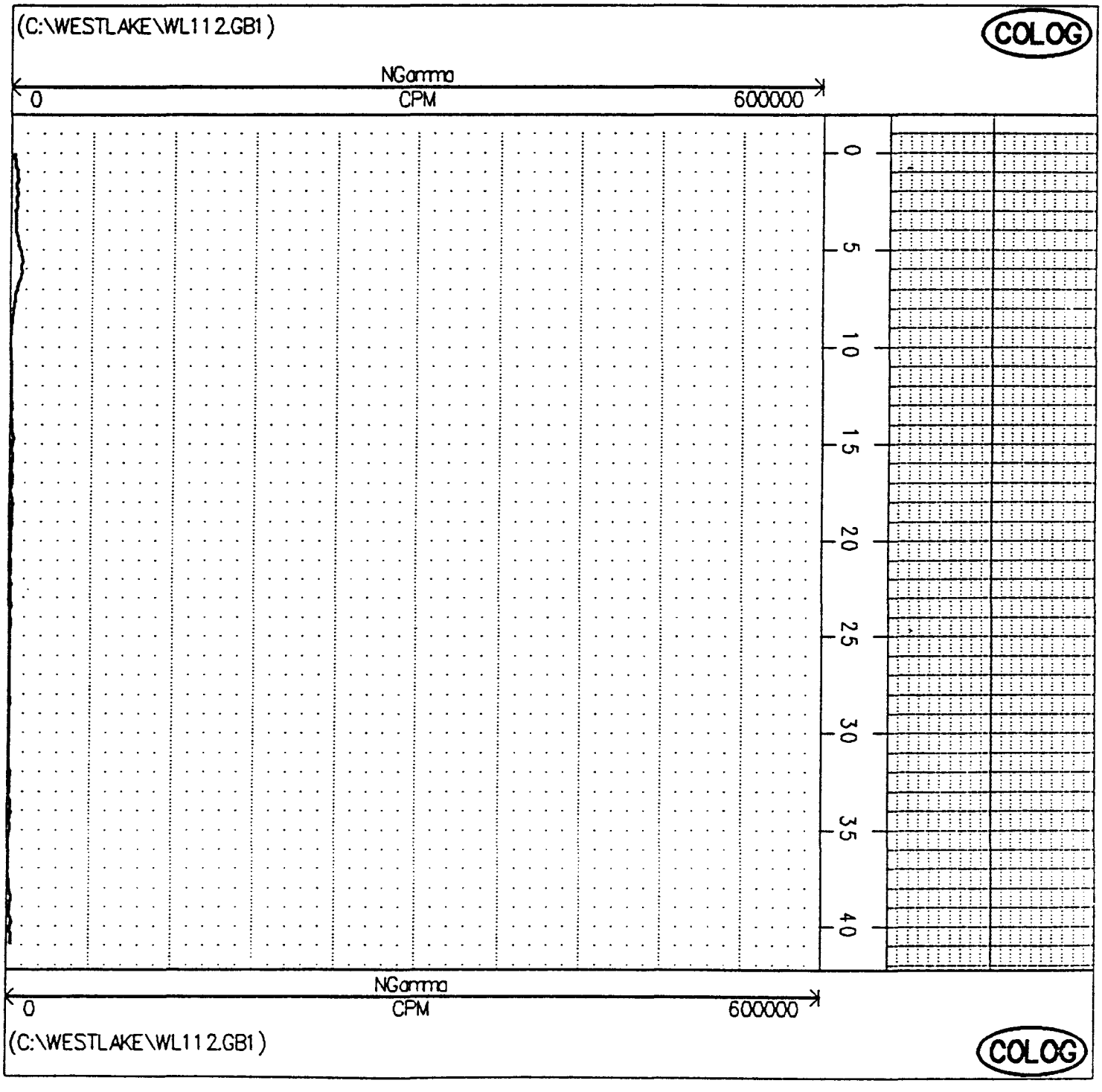
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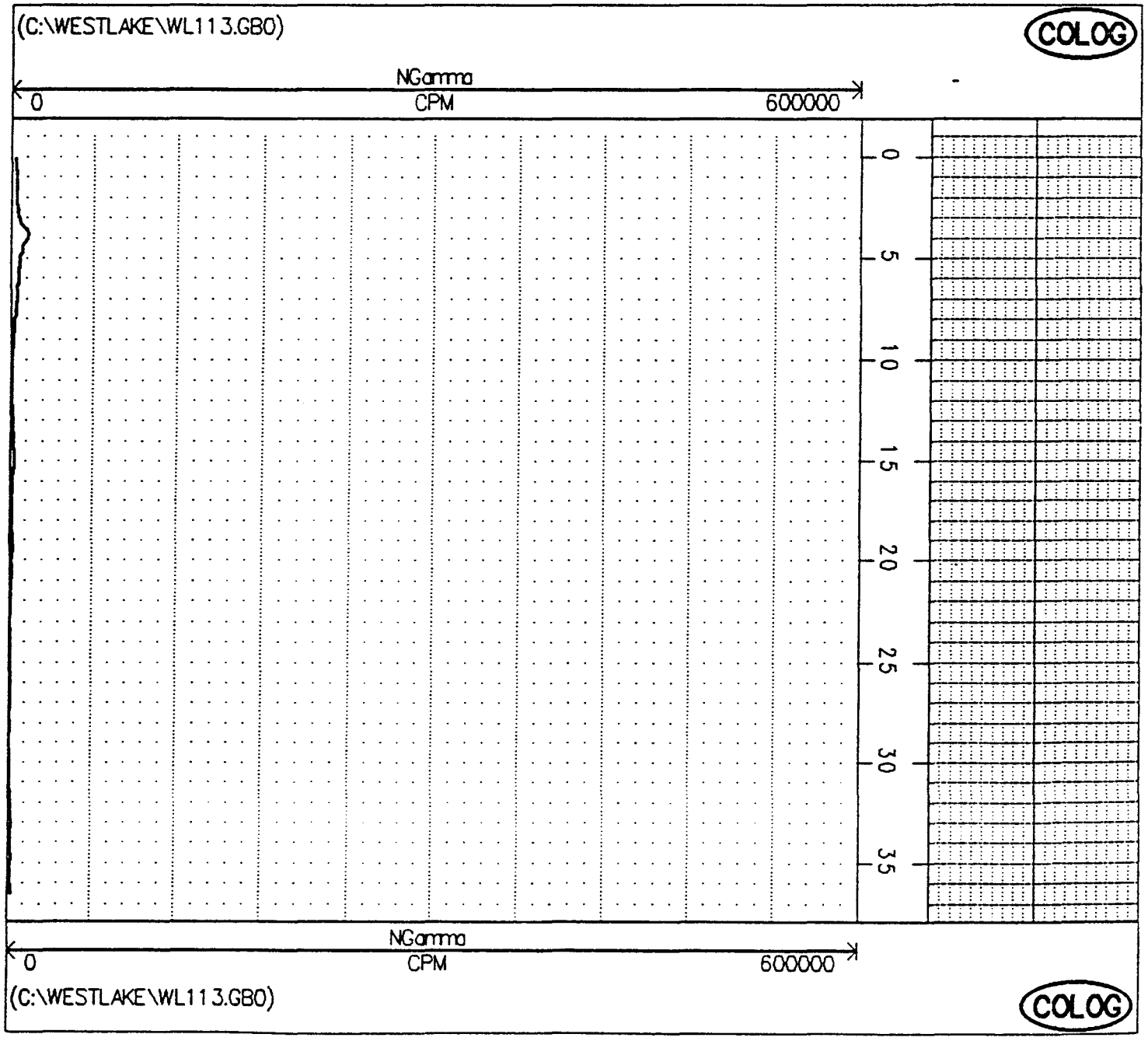
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NGamma
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600000
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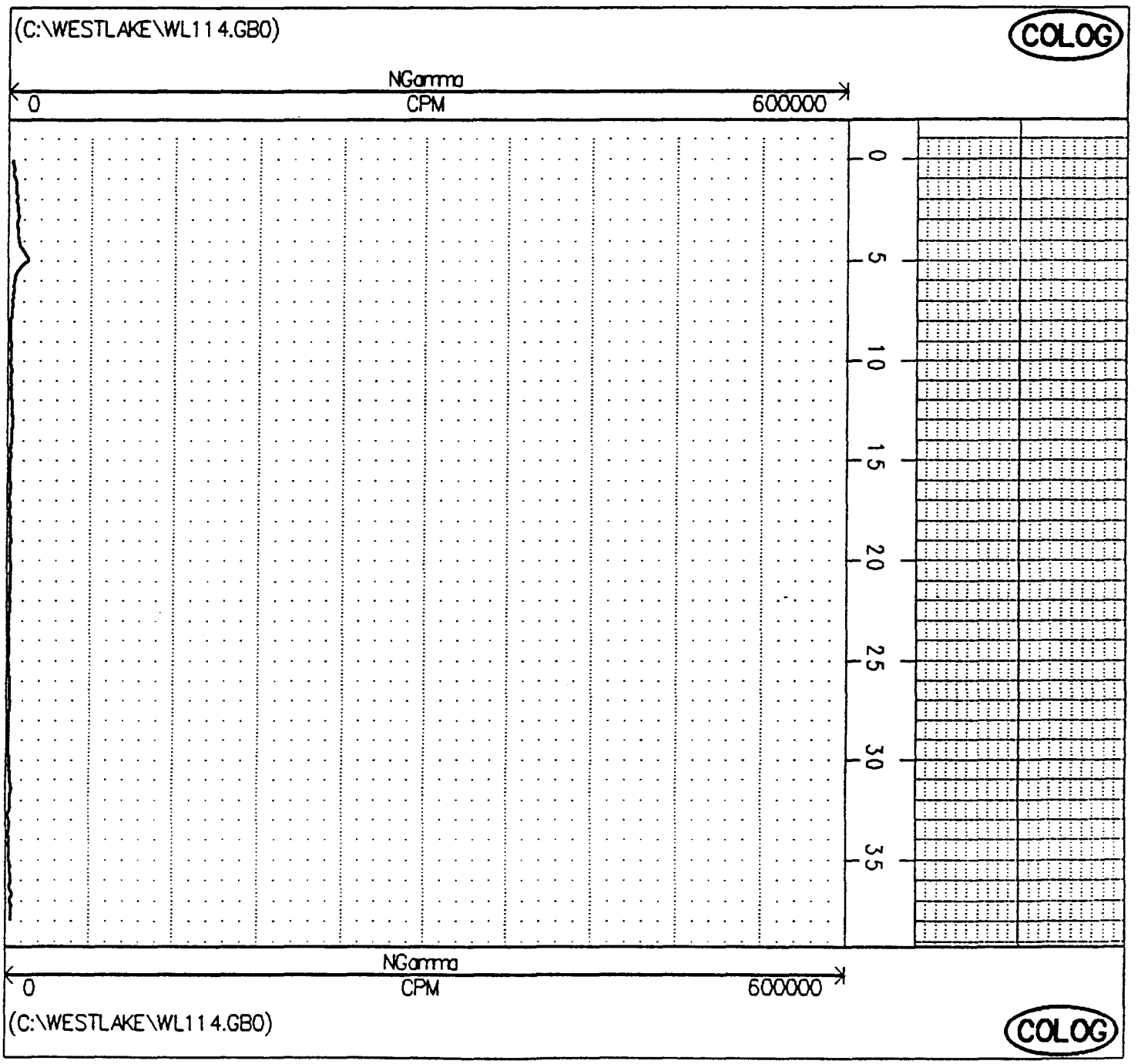
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CPM
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CPM
600000
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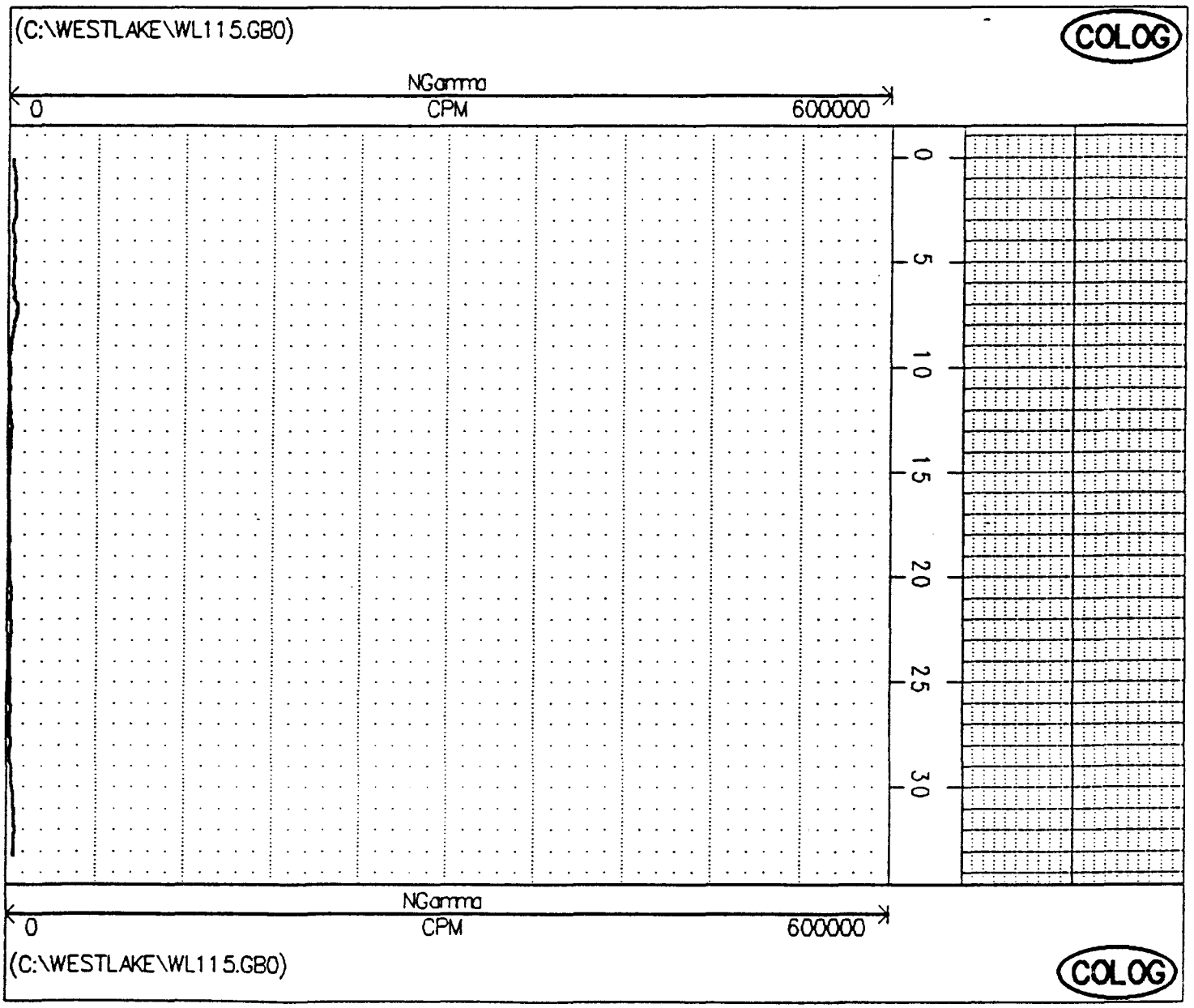
COLOG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CPM
600000
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20
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NGamma
0
CPM
600000
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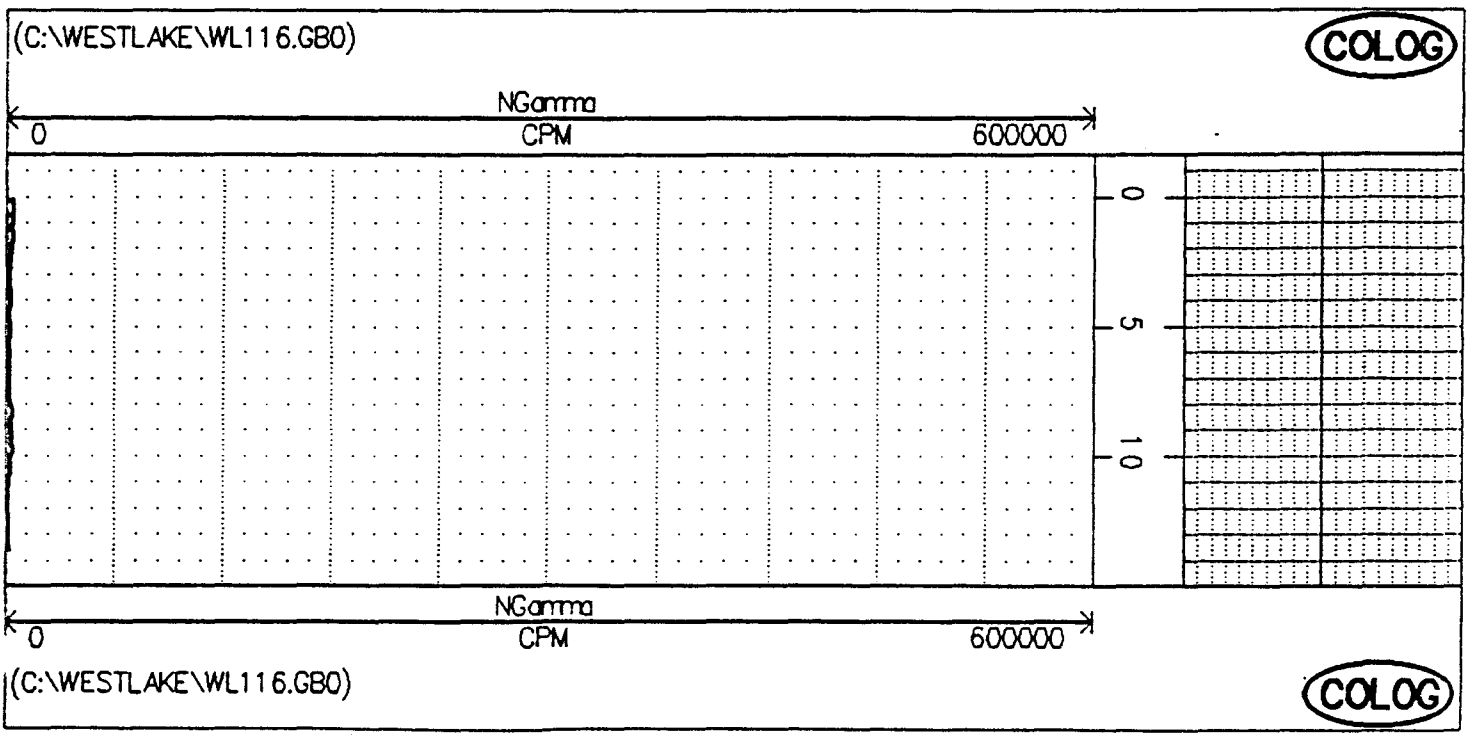
COLOG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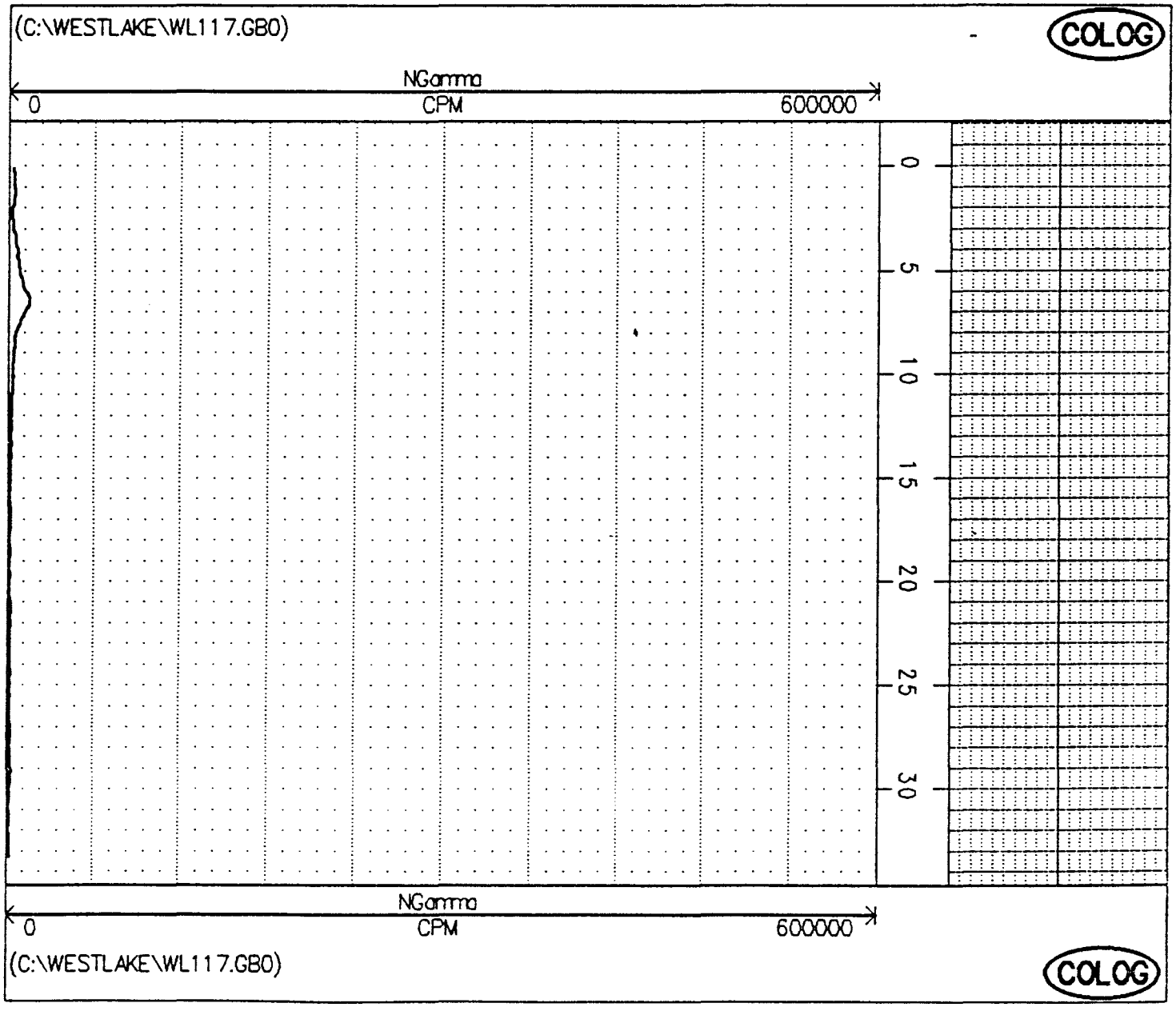
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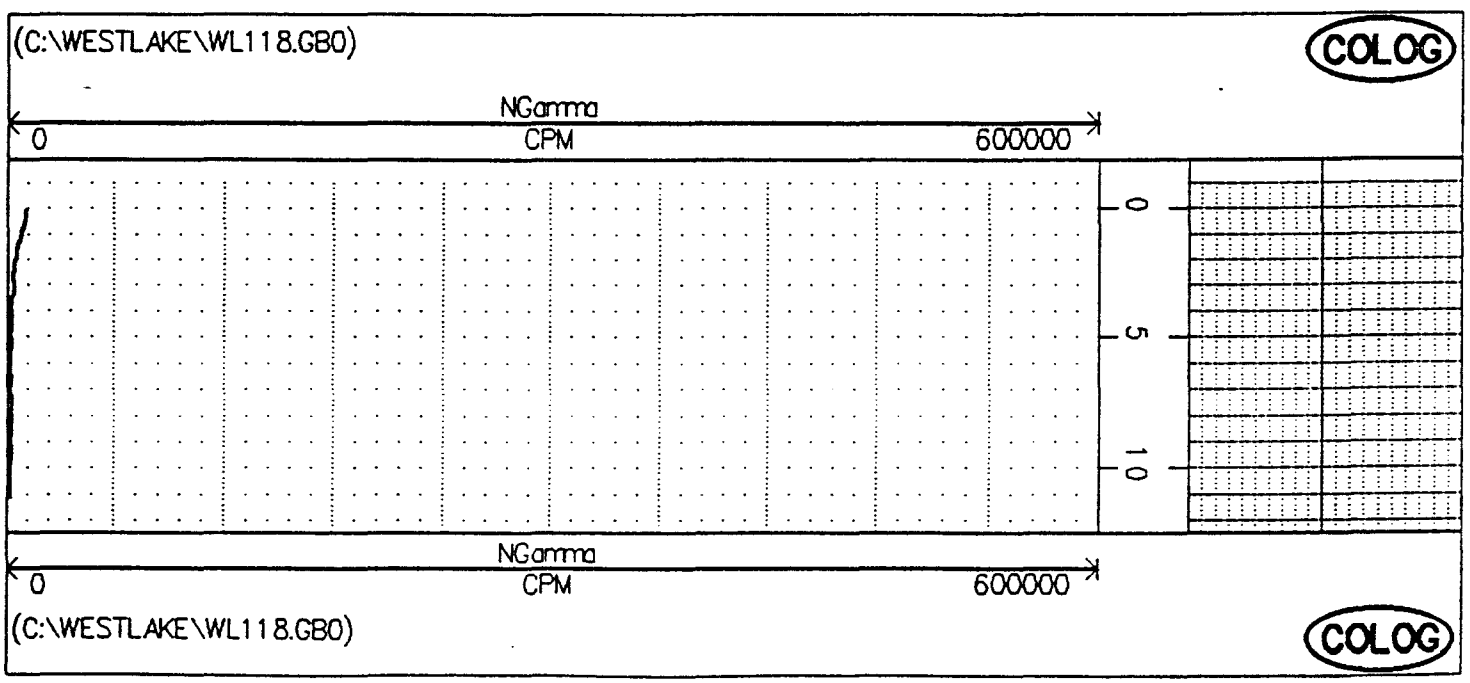
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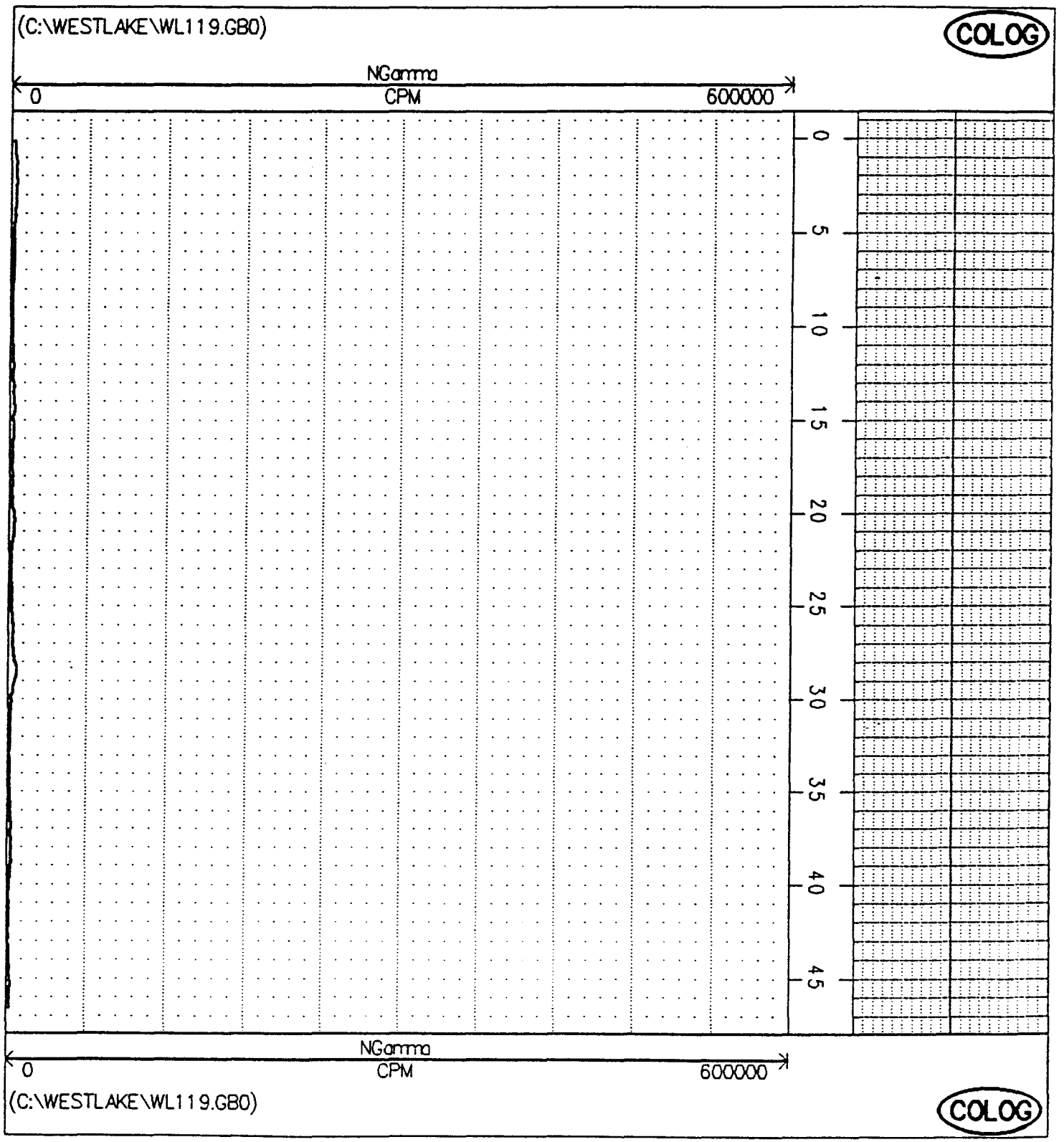
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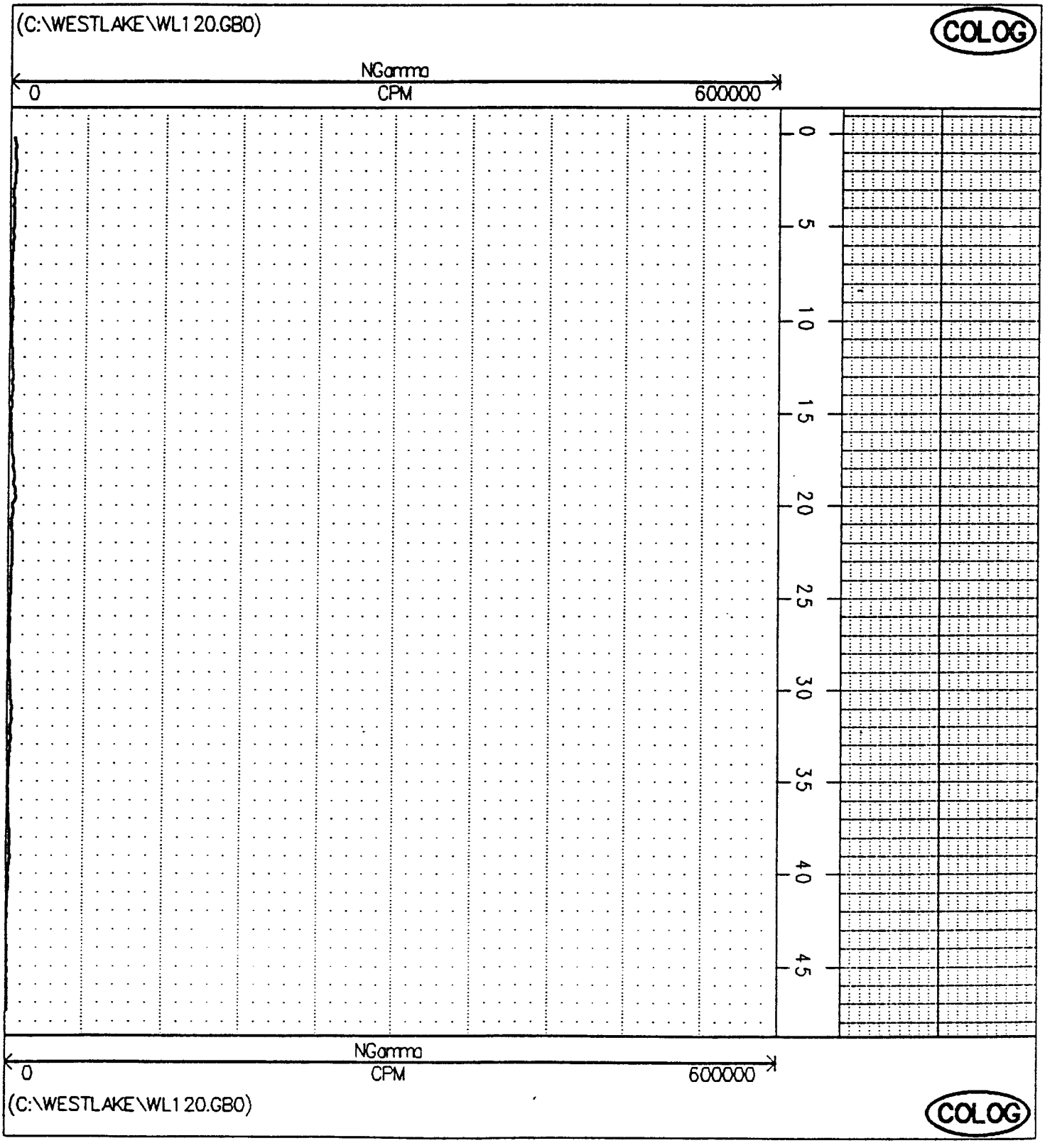
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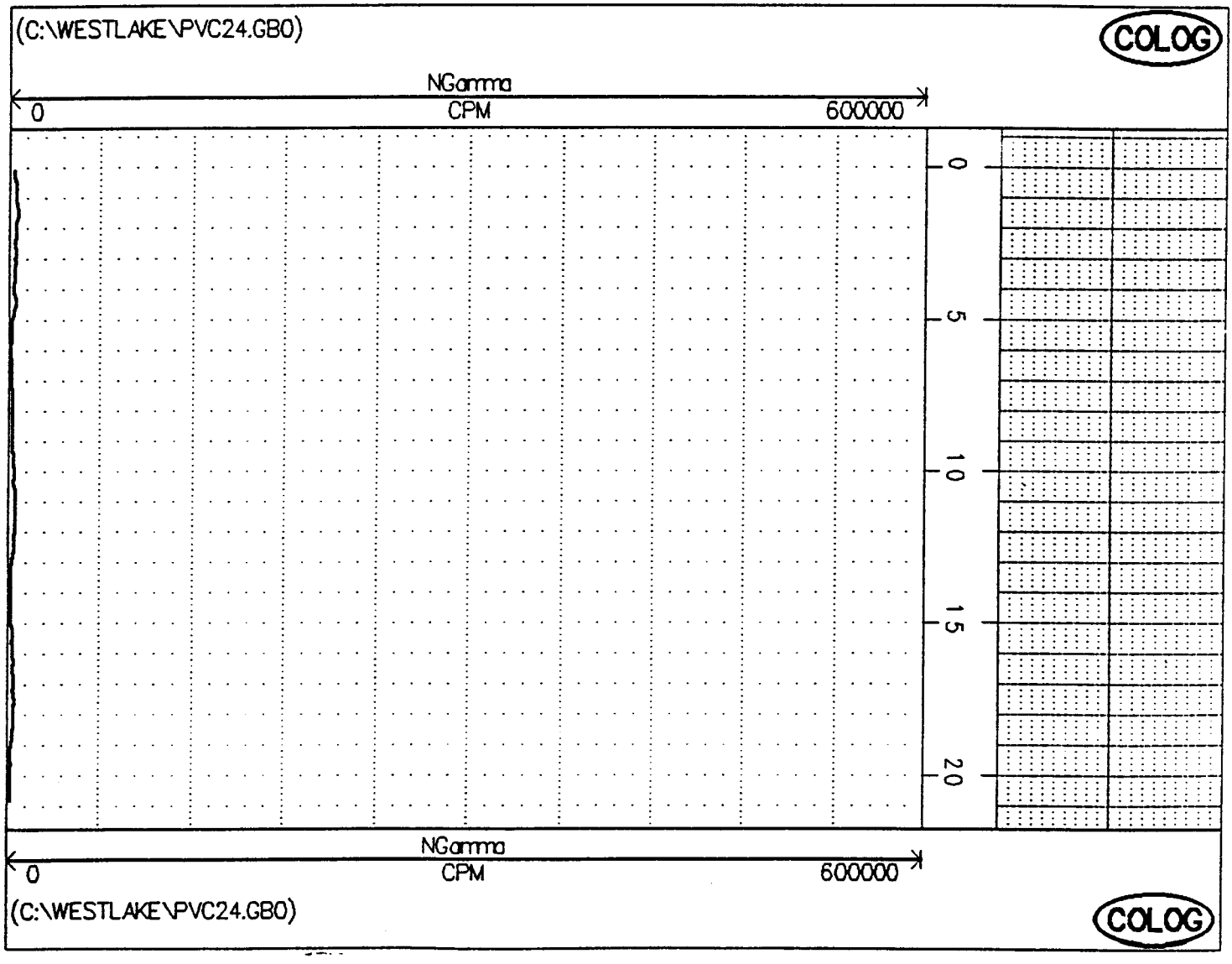
PVC Boring
Downhole Gamma Logs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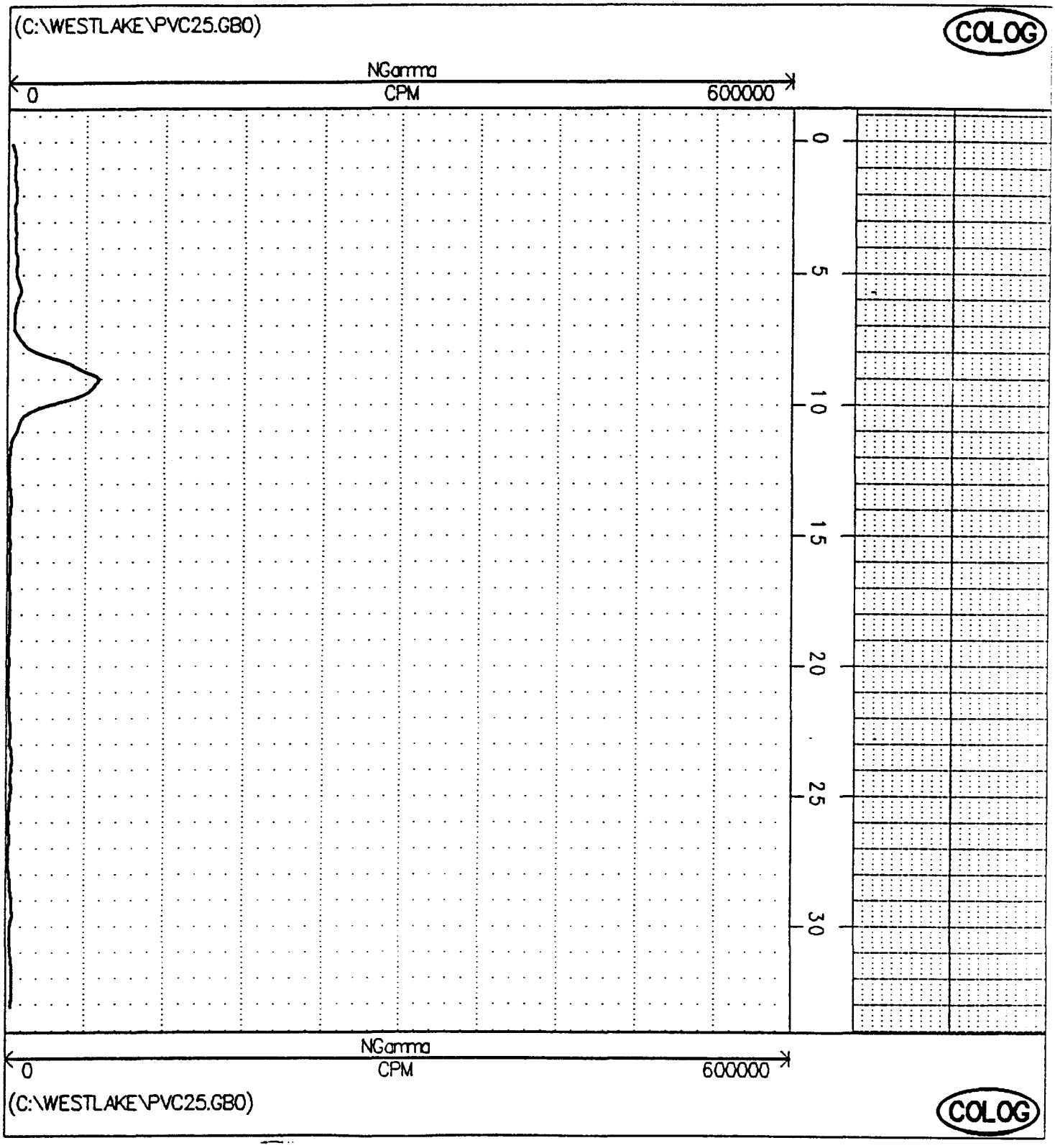
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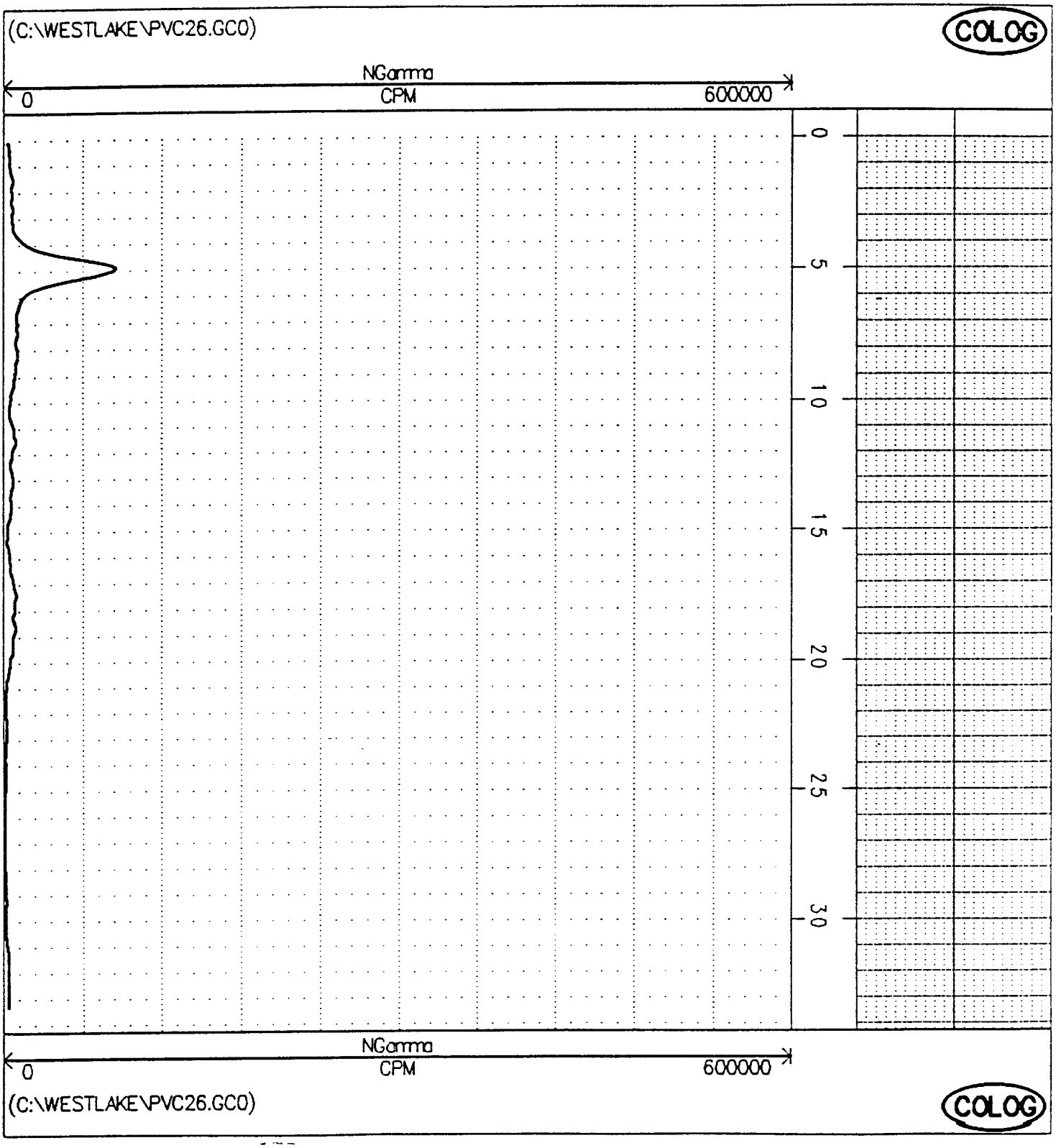
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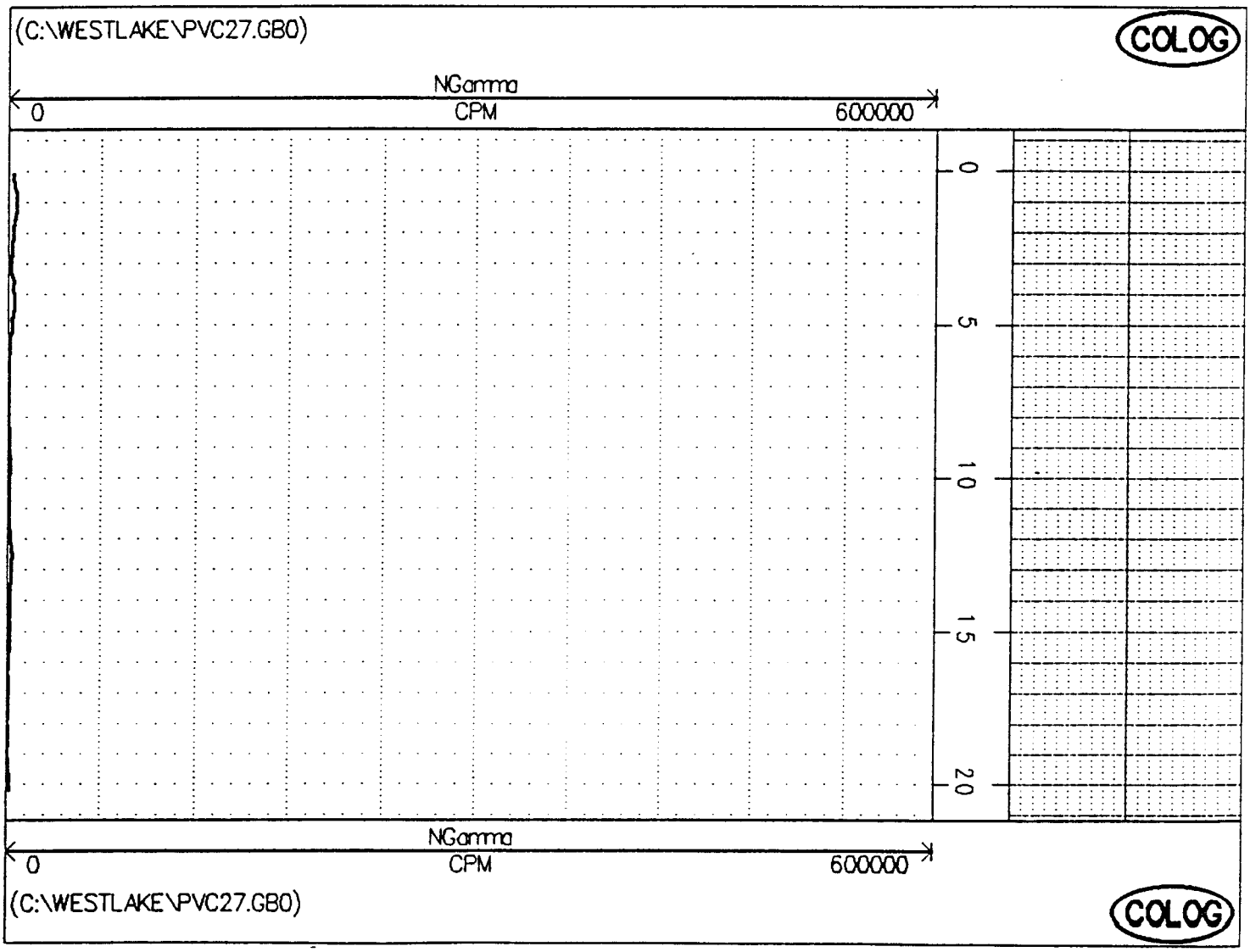
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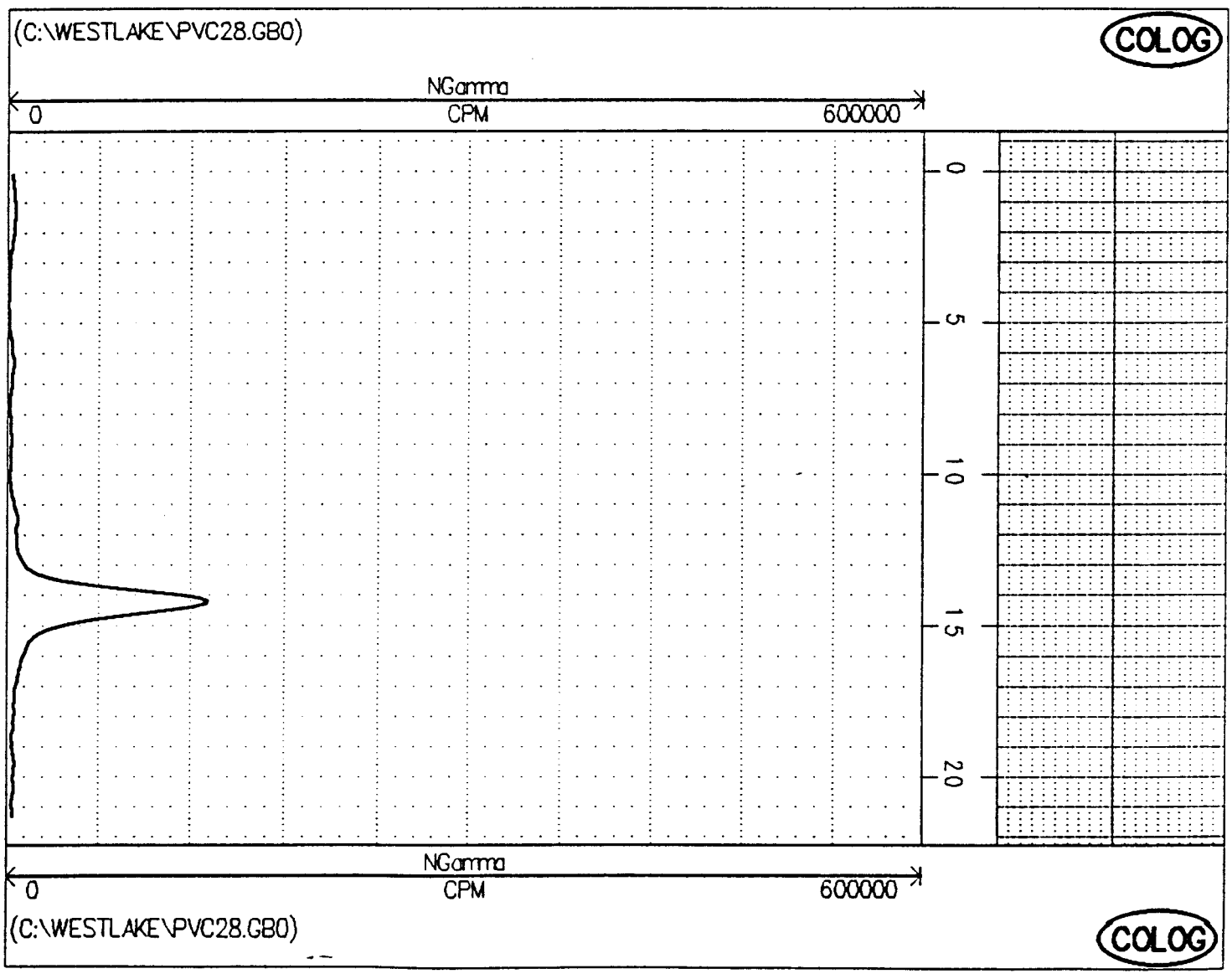
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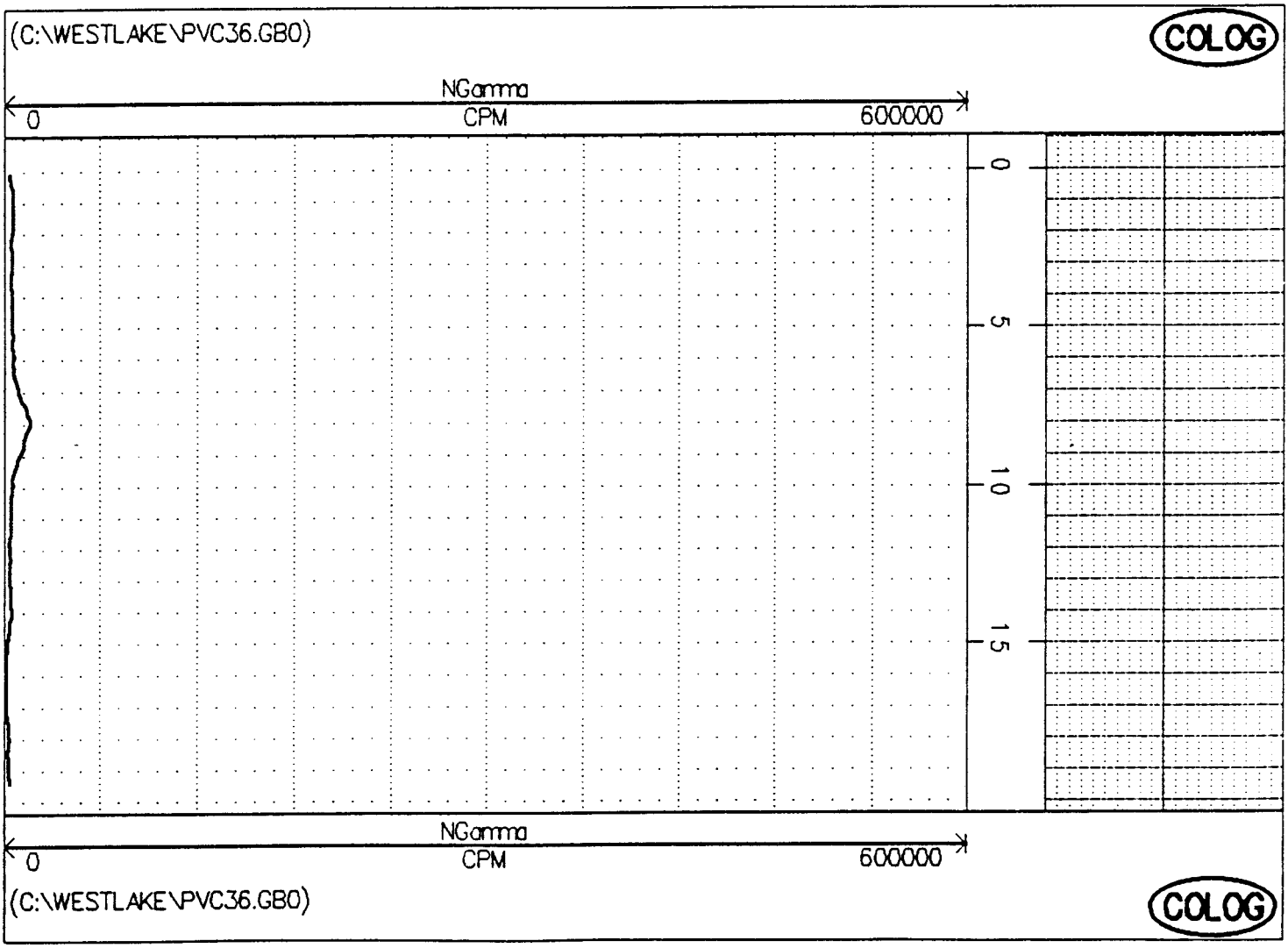
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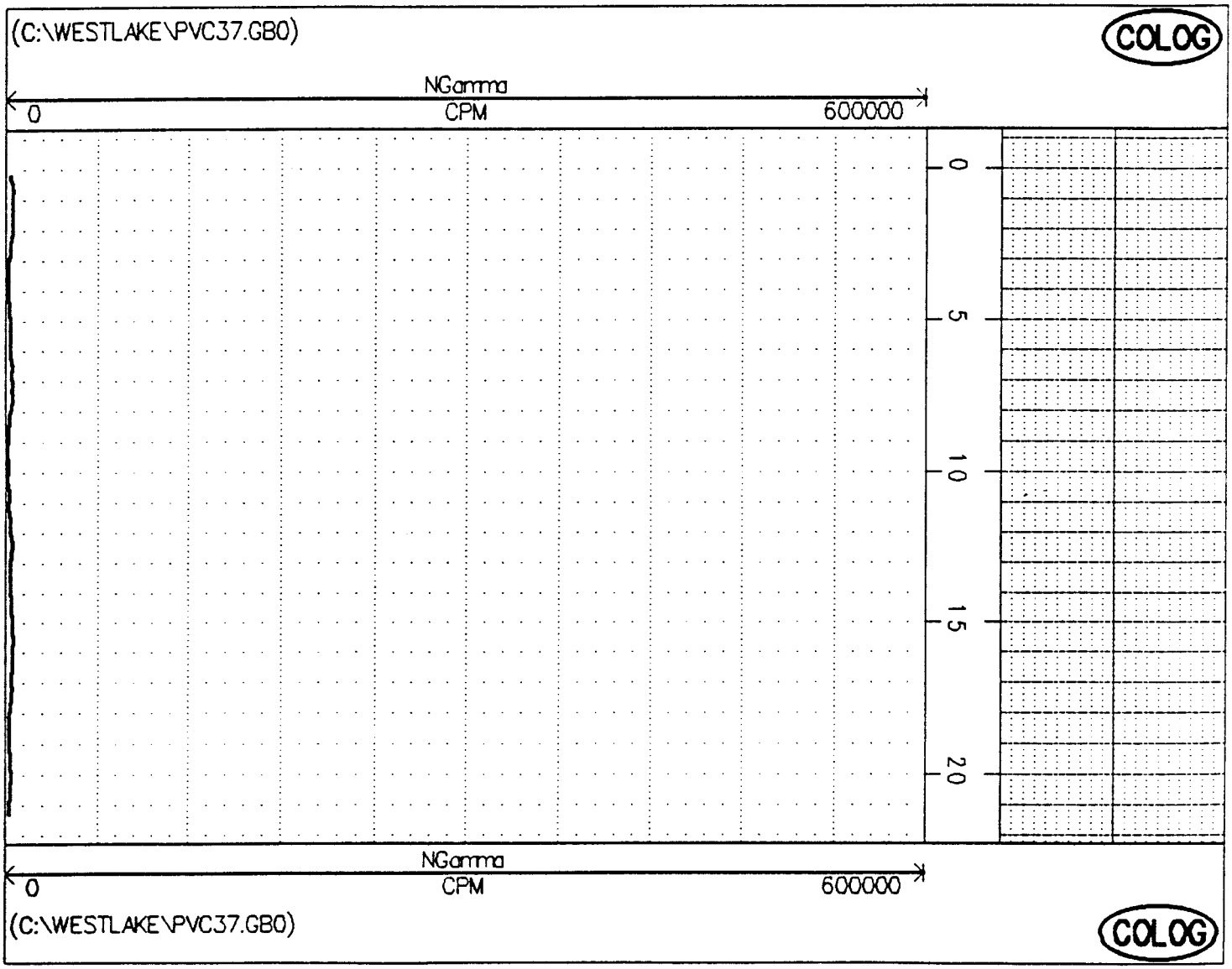
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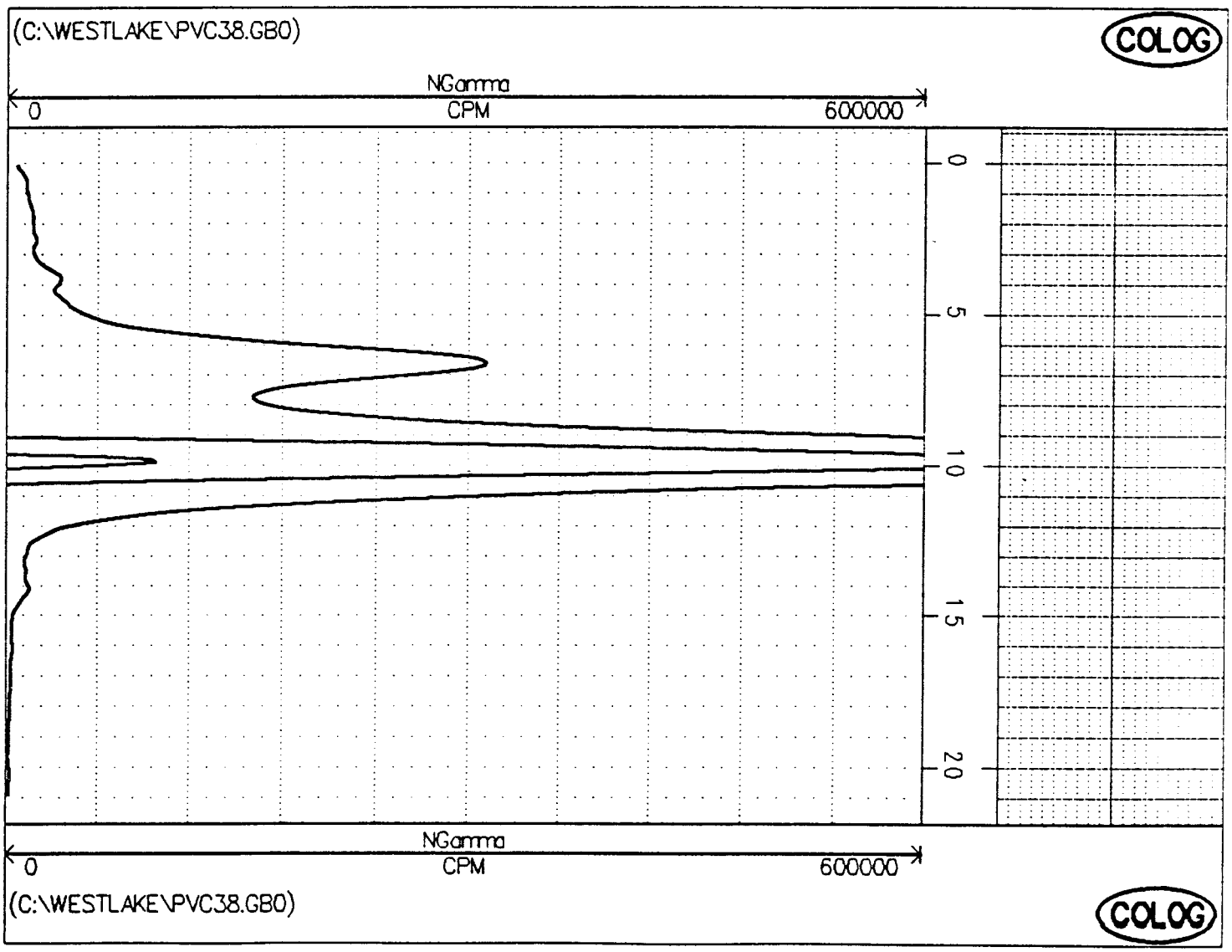
COLOG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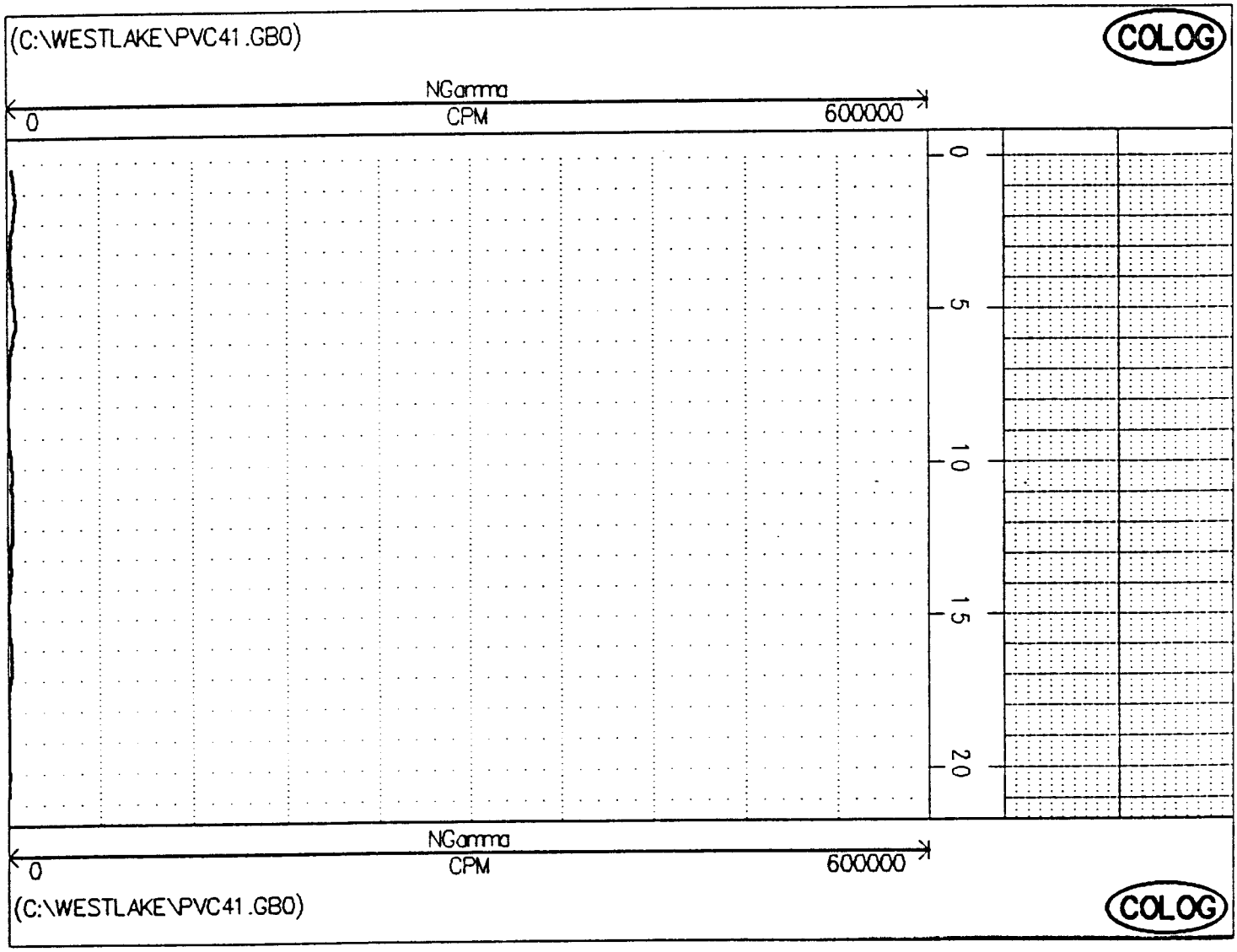
COLOG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COLOG

APPENDIX F:

Soil/Waste Sample Chain of Custody Forms

F-1: Phase 1C Chain of Custody Forms

F-2: Phase 1D Chain of Custody Forms

Appendix F-1: Phase 1C Sample

Chain of Custody Forms

14-01113 REC'D JAN 23 2014

Auxier & Associates, Inc.
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Auxier & Associates, Inc.
Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

CHAIN OF CUSTODY FORM

Project Name:	FEE/BRI	Project Manager:	Beth Jansen
Location:	Bridgeton, MO	Telephone No.:	865-675-3669
Sample Custodian:	Matt Walton	Fax No.:	865-675-3677

	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
4	FEEBRIS14-4.005-006	01/20/2014	Soil core Sample 5' to 6'	16	FEEBRIS 12-5.012-013	01/18/2014	Soil Core Sample 12' to 13'
5	FEEBRIS 14-4.028-029	01/20/2014	Soil core Sample 28' to 29'	17	FEEBRIS 14-2.019-020	01/17/2014	Soil Core Sample 19' to 20'
6	FEEBRIS 14-7.013-014	01/20/2014	Soil core Sample 13' to 14'	18	FEEBRIS 14-2.029-031	01/17/2014	Soil Core Sample 29' to 31'
7	FEEBRIS14-7.038-039	01/20/2014	Soil core Sample 38' to 39'	19	FEEBRIS 13-3.019-020	01/15/2014	Soil Core Sample 19' to 20'
8	FEEBRIS 15-2.043-044	01/20/2014	Soil core Sample 43' to 44'	20	FEEBRIS 13-3.029-030	01/15/2014	Soil Core Sample 29' to 30'
9	FEEBRIS 15-2.024-025	01/20/2014	Soil core Sample 24' to 25'				
10	FEEBRIS16-3.006-007	01/19/2014	Soil Core Sample 6' to 7'				
11	FEEBRIS 16-3.011-012	01/19/2014	Soil Core Sample 11' to 12'				
12	FEEBRIS 16-3.011-012D	01/19/2014	Soil Core Sample (Duplicate) 11' to 12'				
13	FEEBRIS 16-6.006-007	01/19/2014	Soil Core Sample 6' to 7'				
14	FEEBRIS 16-6.021-022	01/19/2014	Soil Core Sample 21' to 22'				
15	FEEBRIS 12-5.002-003	01/18/2014	Soil Core Sample 2' to 3'				

Relinquished By: Matt Walton 01/20/2014	Received In Good Condition By: Kristen Collat	Time: 1000	Date: 1/23/14
Method Of Shipment:			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

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14-02048

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Suite 1
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(423) 675-3669

Auxier & Associates
Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

CHAIN OF CUSTODY FORM

Project Name:	FEE/BRI	Project Manager:	Beth Jansen
Location:	Bridgeton. MO	Telephone No.:	865-675-3669
Sample Custodian:	Matt Walton	Fax No.:	865-675-3677

	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
4	FEEBRIS08-1.028-029	01/30/2014	Soil core sample 28' to 29'	16	FEEBRIS01-2.028-029	02/03/2014	Soil core Sample 28' to 29'
5	FEEBRIS08-1.040-041	01/30/2014	Soil core sample 40' to 41'				
6	FEEBRISWL19.005-006	01/30/2014	Soil core Sample 5' to 6'				
7	FEEBRISWL19.051-052	01/30/2014	Soil core Sample 51' to 52'				
8 *	FEEBRIS05-3.028-029	01/31/2014	Soil core sample 28' to 29'				
9	FEEBRIS05-3..029-030	01/31/2014	Soil core sample 29' to 30'				
10	FEEBRIS05-3.029-030D	01/31/2014	Soil core Sample 29' to 30' Duplicate				
11	FEEBRIS05-3..033-034	01/31/2014	Soil core Sample 33' to 34'				
12	FEEBRIS08-2i.005-006	02/01/2014	Soil core Sample 5' to 6'				
13	FEEBRIS02-2.021-022	02/01/2014	Soil core Sample 21' to 22'				
14	FEEBRIS01-2.024-025	02/03/2014	Soil core Sample 24' to 25'				
15	FEEBRIS01-2.039-040	02/03/2014	Soil core Sample 39' to 40'				

Relinquished By: Matt Walton 02/06/2014	Received In Good Condition By: Kristen Coulston	Time: 1045	Date: 2/11/14
Method Of Shipment:			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

* = Hot Sample. 160 uR on contact / 25 uR @ 3cm.

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14-03064

REC'D MAR 03 2014

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9821 Cogdill Road
Suite 1
Knoxville, TN 37932
(423) 675-3669

CHAIN OF CUSTODY FORM

Project Name:	FEE/BRI	Project Manager:	Beth Jansen
Location:	Bridgeton, MO	Telephone No.:	865-675-3669
Sample Custodian:	Matt Walton	Fax No.:	865-675-3677

	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
4	FEEBRICS.021314	02/13/2014	Core Spoil Comp. Sample. 1 yrd.			
5	FEEBRISIC-6.019-020	02/18/2014	Soil core sample 19' to 20'			
6	FEEBRISIC-6.024-025	02/18/2014	Soil core sample 24' to 25'			
7	FEEBRISIC-6.025-026	02/18/2014	Soil core sample 25' to 26'			
8	FEEBRISIC-6.026-027	02/18/2014	Soil core sample 26' to 27'			
9	FEEBRIS13-6.021-022	02/21/2014	Soil core sample 21' to 22'			
10	FEEBRIS13-6.021-022D	02/21/2014	Soil core Sample Duplicate 21' to 22'			
11	FEEBRIS13-6.039-040	02/21/2014	Soil core sample 39' to 40'			
12	FEEBRI14-5.012-013	02/26/2014	Soil core sample 12' to 13'			
13	FEEBRI14-5.060-061	02/26/2014	Soil core sample 60' to 61'			
	POLLY TANK 500 GAL	02/21/2014	4 Liter Water sample			
	POLLY TANK 800 GAL	02/21/2014	4 Liter Water sample.			

Relinquished By: Matt Walton.	Received In Good Condition By: Kristen Coulston	Time: 1000	Date: 3/3/14
Method Of Shipment: FedEX			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

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Radiological Health, Safety and Environmental Services

14-03082 REC'D MAR 17 2014

Auxier & Associates, Inc.
9821 Cogdill Road
Suite 1
Knoxville, TN 37932
(423) 675-3669

CHAIN OF CUSTODY FORM

Project Name:	FEE/BRI	Project Manager:	Beth Jansen
Location:	Bridgeton, MO	Telephone No.:	865-675-3669
Sample Custodian:	Matt Walton	Fax No.:	865-675-3677

	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
4	FEEBRIS1C-6T1. 022-023 GP	03/12/14	Geoprobe core Sample 22' to 23'	FEEBRIS02-3. 035-036 GP	03/13/14	35' to 36'
5	FEEBRIS1C-12. 049-050 GP	03/12/14	49' to 50'	FEEBRIS02-2. 031-032 GP	03/13/14	31' to 32'
6	FEEBRIS1C-12b. 054-055 GP	03/12/14	54' to 55'	FEEBRIS1C-12. 048-049 GP	03/12/14	48' to 49'
7	FEEBRIS1C-12b. 053-054 GP	03/13/14	53' to 54'	FEEBRIS1-2. 023-024 GP	03/13/14	23' to 24'
8	FEEBRIS WL-119. 034-035 GP	03/13/14	34' to 35'	FEEBRIS1-2. 028-029 GP	03/13/14	28' to 29'
9	FEEBRIS WL-119b. 038-039 GP	03/13/14	38' to 39'	FEEBRIS1C-2RA. 028-029 GP	03/13/14	28' to 29'
10	FEEBRIS WL-119c. 043-044 GP	03/13/14	43' to 44'	FEEBRIS1C-4R. 046-047 GP	03/13/14	46' to 47'
11	FEEBRIS WL-119c. 045-046 GP	03/13/14	45' to 46'	FEEBRIS1C-4RB. 046-047 GP	03/13/14	46' to 47'
12	FEEBRIS08-1b. 029-030 GP	03/13/14	29' to 30'	FEEBRIS1C-12c. 055-056 GP	03/13/14	55' to 56'
13	FEEBRIS08-1b. 028-029 GP	03/13/14	28' to 29'			
14	FEEBRIS08-1b. 028-029 GP-D	03/13/14	28' to 29' (Duplicate)			
15	FEEBRIS02-3. 034-035 GP	03/13/14	34' to 35'			

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Relinquished By: Matt Walton 03/14/2014	Received In Good Condition By: Kristen Carlstan	Time: 1030	Date: 3/17/14
Method Of Shipment:			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

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Radiological Health, Safety and Environmental Services

14-03083

REC'D MAR 17 2014

Auxier & Associates, Inc.
9821 Cogdill Road
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Knoxville, TN 37932
(423) 675-3669

CHAIN OF CUSTODY FORM

Project Name:	FEE/BRI	Project Manager:	Beth Jansen
Location:	Bridgeton, MO	Telephone No.:	865-675-3669
Sample Custodian:	Matt Walton	Fax No.:	865-675-3677

	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
1	FEEBRIS1C-6T1. 022-023 GP	03/12/14	Geoprobe core sample 22' to 23'	4	FEEBRIS02-3. 035-036 GP	03/13/14	35' to 36'
2	FEEBRIS1C-12. 049-050 GP	03/12/14	49' to 50'	5	FEEBRIS02-2. 031-032 GP	03/13/14	31' to 32'
3	FEEBRIS1C-12b. 054-055 GP	03/12/14	54' to 55'	6	FEEBRIS1C-12. 048-049 GP	03/12/14	48' to 49'
4	FEEBRIS1C-12b. 053-054 GP	03/13/14	53' to 54'	7	FEEBRIS1-2. 023-024 GP	03/13/14	23' to 24'
8	FEEBRIS WL-11a. 034-035 GP	03/13/14	34' to 35' SA	8	FEEBRIS1-2. 028-029 GP	03/13/14	28' to 29'
5	FEEBRIS WL-11b. 038-039 GP	03/13/14	38' to 39'	9	FEEBRIS1C-2RA. 028-029 GP	03/13/14	28' to 29'
6	FEEBRIS WL-11c. 043-044 GP	03/13/14	43' to 44'	10	FEEBRIS1C-4R. 046-047 GP	03/13/14	46' to 47'
7	FEEBRIS WL-11c. 046-046 GP	03/13/14	45' to 46'	11	FEEBRIS1C-4RB. 046-047 GP	03/13/14	46' to 47'
9	FEEBRIS08-1b. 029-030 GP	03/13/14	29' to 30'	12	FEEBRIS1C-12c. 055-056 GP	03/13/14	55' to 56'
10	FEEBRIS08-1b. 028-029 GP	03/13/14	28' to 29'				
11	FEEBRIS08-1b. 028-029 GP-D	03/13/14	28' to 29' (Duplicate)				
12	FEEBRIS02-3. 034-035 GP	03/13/14	34' to 35'				

Relinquished By: Matt Walton 03/14/2014	Received In Good Condition By: Kristen Carlston	Time: 1050	Date: 3/17/14
Method Of Shipment:			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

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14-04118

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Suite 1
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Radiological Health, Safety and Environmental Services
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CHAIN OF CUSTODY FORM

Project Name:	FEE/BRI	Project Manager:	Beth Jansen
Location:	Bridgeton, MO	Telephone No.:	865-675-3669
Sample Custodian:	Matt Walton	Fax No.:	865-675-3677

	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
1	FEEBRIS01-2.008-009	04-12-2014	Soil core Sample @	16	FEEBRIS02-2.022-023D	04-13-2014	Soil core Sample Duplicate
5	FEEBRIS01-2.018-019	04-12-2014		17	FEEBRIS05-3.025-026	04-13-2014	Soil core Sample
6	FEEBRIS01-2.020-021	04-12-2014		18	FEEBRIS05-3.025-026D	04-13-2014	Soil core Sample Duplicate
7	FEEBRIS01-2.022-023	04-12-2014		19	FEEBRIS08-1.044-045	04-13-2014	Soil core Sample @
8	FEEBRIS01-2.023-024	04-12-2014		20	FEEBRIS WL-119.001-002	04-14-2014	
1	FEEBRIS01-2.033-034	04-13-2014			FEEBRIS WL-119.009-010	04-14-2014	
0	FEEBRIS01-2.038-039	04-13-2014			FEEBRIS WL-119.009-010D	04-14-2014	Soil core Sample Duplicate
1	FEEBRIS01-2.038-039D	04-13-2014	Soil core Sample Duplicate		FEEBRIS WL-119.020-021	04-14-2014	Soil core Sample @
2	FEEBRI01-2.040-041	04-13-2014	Soil core Sample @		FEEBRIS WL-119.040-041	04-14-2014	
3	FEEBRIS02-2.019-020	04-13-2014			FEEBRIS WL-119.041-042	04-14-2014	
1	FEEBRIS02-2.020-021	04-13-2014			@	@	@
5	FEEBRIS02-2.022-023	04-13-2014					

Relinquished By:	Received In Good Condition By: Kristen Carlsten	Time: 1134	Date: 4/17/14
Method Of Shipment:			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

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Auxier & Associates, Inc.
Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

CHAIN OF CUSTODY FORM

Project Name:	FEE/BRI	Project Manager:	Beth Jansen
Location:	Bridgeton, MO	Telephone No.:	865-675-3669
Sample Custodian:	Matt Walton	Fax No.:	865-675-3677

SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
FEEBRIS01-2.008-009	04-12-2014	Soil core Sample	FEEBRIS02-2.022-023D	04-13-2014	Soil core Sample Duplicate
FEEBRIS01-2.018-019	04-12-2014	@	FEEBRIS05-3.025-026	04-13-2014	Soil core Sample
FEEBRIS01-2.020-021	04-12-2014		FEEBRIS05-3.025-026D	04-13-2014	Soil core Sample Duplicate
FEEBRIS01-2.022-023	04-12-2014		FEEBRIS08+1.044-045	04-13-2014	Soil core Sample
FEEBRIS01-2.023-024	04-12-2014		FEEBRIS WL-119.001-002	04-14-2014	@
FEEBRIS01-2.033-034	04-13-2014	4	FEEBRIS WL-119.009-010	04-14-2014	
FEEBRIS01-2.038-039	04-13-2014	5	FEEBRIS WL-119.009-010D	04-14-2014	Soil core Sample Duplicate
FEEBRIS01-2.038-039D	04-13-2014	Soil core Sample Duplicate 6	FEEBRIS WL-119.020-021	04-14-2014	Soil core Sample
FEEBRI01-2.040-041	04-13-2014	Soil core Sample 7	FEEBRIS WL-119.040-041	04-14-2014	@
FEEBRIS02-2.019-020	04-13-2014	@ 8	FEEBRIS WL-119.041-042	04-14-2014	
FEEBRIS02-2.020-021	04-13-2014		@	@	@
FEEBRIS02-2.022-023	04-13-2014				

Relinquished By:	Received In Good Condition By: Kristen Coulston	Time: 1134	Date: 4/17/14
Method Of Shipment:			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

g:\marsha\forms\COC 08/13/99

Appendix F-2: Phase 1D Sample

Chain of Custody Forms

Chain of Custody Record

№ 7119

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR I D	Project Number: ENG/BOR I D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 COGDILL RD STE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 804349896386
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

Page 1 of 2
1 OF 2

Purchase Order #: ENG BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gamma Spec	Isotopic Thorium	Isotopic Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRISID-09.099-100	6/17/15	1314	S	1	X	X	X		
FEEBRISID-09.078-079	6/17/15	1300	S	1	X	X	X		
FEEBRISID-01.007-009	6/22/15	1007	S	1	X	X	X		
FEEBRISID-01.024-027	6/22/15	1015	S	1	X	X	X		
FEEBRISID-02.027-030	6/22/15	1104	S	1	X	X	X		
FEEBRISID-02.020-023	6/22/15	1120	S	1	X	X	X		
FEEBRISID-02.036-037	6/22/15	1130	S	1	X	X	X		
FEEBRISID-18.013-014	6/22/15	1247	S	1	X	X	X		
FEEBRISID-18.038-041	6/22/15	1256	S	1	X	X	X		
FEEBRISID-18.044-046	6/22/15	1304	S	1	X	X	X		
FEEBRISID-17.030-031	6/22/15	1456	S	1	X	X	X		
FEEBRISID-17.033-036	6/22/15	1503	S	1	X	X	X		
FEEBRISID-13.093-094	6/12/15	1415	S	1	X	X	X		
FEEBRISID-13.085-086	6/12/15	1432	S	1	X	X	X		
FEEBRISID-14.082-084	6/12/15	1451	S	1	X	X	X		
FEEBRISID-14.054-056	6/12/15	1458	S	1	X	X	X		
FEEBRISID-09.088-089	6/11/15	0858	S	1	X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround		Sample Receipt	
Level I	☐	Routine	☑	Total # Containers Received?	
Level II	☐	24 Hour	☐	COC Seals Present?	
Level III	☐	1 Week	☐	COC Seals Intact?	
Other	☐	Other	____	Received Containers Intact?	
				Temperature?	

Chain of Custody Record

№ 7119

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1 D	Project Number: ENG/BOR 1 D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 COGDILL RD STE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 804549896306
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

Page 2 of 2
1 OF 2

15-06114

Purchase Order #: ENG BOR 1-D

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GAMMA SPEC	ISOTOPIC THORIUM	ISOTOPIC URANIUM								Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRISID-09.099-100	6/17/15	1314	S	1	X	X	X									
5	FEEBRISID-09.078-079	6/17/15	1300	S	1	X	X	X									
6	FEEBRISID-01.007-009	6/22/15	1007	S	1	X	X	X									
7	FEEBRISID-01.024-027	6/22/15	1015	S	1	X	X	X									
8	FEEBRISID-02.027-030	6/22/15	1104	S	1	X	X	X									
9	FEEBRISID-02.020-023	6/22/15	1120	S	1	X	X	X									
10	FEEBRISID-02.036-037	6/22/15	1130	S	1	X	X	X									
11	FEEBRISID-18.013-014	6/22/15	1247	S	1	X	X	X									
12	FEEBRISID-18.038-041	6/22/15	1256	S	1	X	X	X									
13	FEEBRISID-18.044-046	6/22/15	1304	S	1	X	X	X								REC'D JUN 29 2015	
14	FEEBRISID-17.030-031	6/22/15	1456	S	1	X	X	X									
15	FEEBRISID-17.033-036	6/22/15	1503	S	1	X	X	X									
16	FEEBRISID-13.093-094	6/12/15	1415	S	1	X	X	X									
17	FEEBRISID-13.085-086	6/12/15	1432	S	1	X	X	X									
18	FEEBRISID-14.082-084	6/12/15	1451	S	1	X	X	X									
19	FEEBRISID-14.054-056	6/12/15	1458	S	1	X	X	X									
20	FEEBRISID-09.088-089	6/11/15	0858	S	1	X	X	X									

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake	Kristen Carlstein	6/29/15	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
Level I ☐	Routine ☒	Total # Containers Received?	
Level II ☐	24 Hour ☐	COC Seals Present?	
Level III ☐	1 Week ☐	COC Seals Intact?	
Other ☐	Other _____	Received Containers Intact?	
		Temperature?	

Chain of Custody Record

№ 7120

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR ID	Project Number: ENG/BOR ID
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 CYPRESS DR SITE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 804549896386
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

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Purchase Order #: ENG/BOR ID

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gamma Spec	Isotopic Thorium	Isotopic Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRISID-13.093-094	6/12/15	1415	S	1	X	X	X	DUPLICATE #1	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround		Sample Receipt	
Level I	☐	Routine	☒	Total # Containers Received?	
Level II	☐	24 Hour	☐	COC Seals Present?	
Level III	☐	1 Week	☐	COC Seals Intact?	
Other	☐	Other _____		Received Containers Intact?	
				Temperature?	

Chain of Custody Record

№ 7120

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR ID	Project Number: ENG/BOR ID
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 CROSSDILL RD STE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 804549896386
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

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15-06115

Purchase Order #: ENG/BOR ID

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gamma Spec	Isotopic Thorium	Isotopic Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRIS1D-13.093-094	6/18/15	14:15	S	1	X	X	X	DUPLICATE	

REC'D JUN 29 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake	Kristen Carlstrom	6/29/15	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☒
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other ____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Chain of Custody Record

№ 7121

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: Bridgeton	Project Number: BOR/ENG ID
Send Report To: C. Greene	Sampler (Print Name): Alex Luna
Address: 9821 Cogdill Rd #1	Sampler (Print Name):
Knoxville, TN 37932	Shipment Method: Fedex
	Airbill Number:
Phone: 865-675-3669	Laboratory Receiving:
Fax: CGREENE@AUXIER.com	

Page 1 of 1

Purchase Order #: ENG/BOR ID

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GAMMA SPEC	ISO THORIUM	ISO URANIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRJSID-5.063-064	7/20/15	1428	S	1	X	X	X		
FEEBRJSID-5.051-052	7/20/15	1404	S	1	X	X	X		
FEEBRJSID-6.080-081	7/21/15	0953	S	1	X	X	X		
FEEBRJSID-6.085-086	7/21/15	0958	S	1	X	X	X		
FEEBRJSID-7.093-094	7/24/15	1452	S	1	X	X	X		
FEEBRJSID-16.050-051	7/27/15	0944	S	1	X	X	X		
FEEBRJSID-16.059-061	7/27/15	1014	S	1	X	X	X		
DUPLICATE #4	7/27/15	1014	S	1	X	X	X		

N/A

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		7/27/15	1101
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
		Total # Containers Received?	
Level I ☐	Routine ☐	COC Seals Present?	
Level II ☐	24 Hour ☐	COC Seals Intact?	
Level III ☐	1 Week ☐	Received Containers Intact?	
Other ☐	Other _____	Temperature?	

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	07/30/2015	28	15-07182
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	Bridgeton	H	08/21/2015	08/26/2015	08/27/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																						TL
01	LCS	07/30/15	SO	B1.3	X	X	X																						3
02	BLANK	07/30/15	SO	B1.3	X	X	X																						3
03	DUP	07/30/15	SO	B1.3	X	X	X																						3
04	FEEBRIS1D-5 063-064	07/20/15 14:28	SO	B1.3	X	X	X																						3
05	FEEBRIS1D-5 051-052	07/20/15 14:04	SO	B1.3	X	X	X																						3
06	FEEBRIS1D-6 080-081	07/21/15 09:53	SO	B1.3	X	X	X																						3
07	FEEBRIS1D-6 085-086	07/21/15 09:58	SO	B1.3	X	X	X																						3
08	FEEBRIS1D-7 093-094	07/24/15 14:50	SO	B1.3	X	X	X																						3
09	FEEBRIS1D-16 050-051	07/27/15 09:44	SO	B1.3	X	X	X																						3
10	FEEBRIS1D-16 059-061	07/27/15 10:14	SO	B1.3	X	X	X																						3
11	DUPLICATE 4	07/27/15 10:14	SO	B1.3	X	X	X																						3
																													0
																													0
																													0
																													0
																													0
																													0
																													0
																													0
																													0
																													0
Totals Per Analysis (non QA samples)					8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		Report Data		
	West Lake Landfill OU-1 Resp		Cecilia Greene	Marsha Joseph
	AMO Environmental Decisions		Auxier & Associates, Inc.	Auxier, Inc.
	PO Box 410		9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Danboro, PA 18916		Knoxville, TN 37932	Knoxville, TN 37932
Voice	215-230-8282	*Voice*	865-675-0379	865-675-3669
Fax	215-230-8283	*Fax*	865-675-3677	865-675-3677
Contact	Marsha Joseph			
Voice	865-675-3669			
Fax	865-675-3677			

Printed: 7/30/2015 12:53 PM

Chain of Custody Record

№ 7122

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: Bridgeton	Project Number: BOR/ENG ID
Send Report To: C. Greene	Sampler (Print Name): Alex Luna
Address: 9821 Cogdill Rd #1	Sampler (Print Name): Ashley Salyer
Knoxville, TN	Shipment Method: Fedex
37932	Airbill Number: 8045-4989-6412
Phone: 865-675-3609	Laboratory Receiving:
Fax: CGREENE@Auxier.com	

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Purchase Order #: _____

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Gamma Spec	ISO Thorium	ISO Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRISID-8.075-076	7/29/15	0906	~~G~~S	1	X	X	X		
FEEBRISID-8.090-091	7/29/15	0941	~~G~~S	1	X	X	X		
FEEBRISID-4.061-062	7/30/15	0735	S	1	X	X	X		
FEEBRISID-4.064-065	7/30/15	0740	S	1	X	X	X		
FEEBRISID-20.080-081	7/30/15	0957	S	1	X	X	X		
DUPLICATE #5	7/30/15	0957	S	1	X	X	X		
FEEBRISID-10.089-090	7/30/15	1024	S	1	X	X	X		
FEEBRISID-7.084085	7/29/15	0807	S	1	X	X	X		
					N/A				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		7/30/15	1410
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
		Total # Containers Received?	
Level I ☐	Routine ☐	COC Seals Present?	
Level II ☐	24 Hour ☐	COC Seals Intact?	
Level III ☐	1 Week ☐	Received Containers Intact?	
Other ☐	Other _____	Temperature?	

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	08/03/2015	28	15-08002
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	BRIDGETON LANDFILL SOIL	H	08/25/2015	08/28/2015	08/31/2015

| Internal ID | Client ID | Sample Date | Matrix | Storage | Gamma | ThISO | UUISO | | |

Chain of Custody Record

№ 7139

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR ID	Project Number: ENG/BOR 1-D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 COGDILL RD #1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 807076411000
Phone: 865-675-3669	Laboratory Receiving:
Fax: CGREENE@ANVIER.COM	

Page 1 of 1

Purchase Order #: ENG/BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gross Alpha/Beta	Isotopic Thorium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
070115-ID-3-A	7/1/15	0730	AF	1	X	X	AF=AIR SAMPLE	
062315-ID-11-A	6/23/15	0750	AF	1	X	X	47mm FILTER	
062415-ID-15-A	6/24/15	0730	AF	1	X	X	PAPERS	
062515-ID-15-A	6/25/15	0745	AF	1	X	X		
062615-ID-15-A	6/26/15	0930	AF	1	X	X		
062615-ID-12-A	6/26/15	1400	AF	1	X	X		
062715-ID-12-A	6/27/15	0730	AF	1	X	X		
062915-ID-10-A	6/29/15	0730	AF	1	X	X		
063015-ID-19-A	6/30/15	0730	AF	1	X	X		
070915-ID-4-A	7/9/15	0730	AF	1	X	X		
071015-ID-8-A	7/10/15	0730	AF	1	X	X		
071115-ID-6-A	7/11/15	0730	AF	1	X	X		
071315-ID-16-A	7/13/15	0730	AF	1	X	X		
071415-ID-5-A	7/14/15	0730	AF	1	X	X		
071515-ID-20-A	7/15/15	0900	AF	1	X	X		

Relinquished by: (Signature) Jim Drake	Received by: (Signature)	Date: 7/16/15	Time: 1130
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
Level I ☐	Routine ☐	Total # Containers Received?	
Level II ☐	24 Hour ☐	COC Seals Present?	
Level III ☐	1 Week ☐	COC Seals Intact?	
Other ☐	Other _____	Received Containers Intact?	
		Temperature?	

Chain of Custody Record

№ 7139

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1D	Project Number: ENG/BOR 1-D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 COGDILL RD #1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 807076411000
Phone: 865-675-3669	Laboratory Receiving:
Fax: CGREENE@ANXIER.COM	

Page 1 of 1

15-07145

Purchase Order #: ENG/BOR 1-D

Field Sample ID		Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gross Alpha/Beta	Isotopic Thorium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
070115-1D-3-A	4	7/1/15	0730	AF	1	X	X	AF=AIR SAMPLE	
062315-1D-11-A	5	6/23/15	0750	AF	1	X	X	47mm FILTER	
062415-1D-15-A	6	6/24/15	0730	AF	1	X	X	PAPERS	
062515-1D-15-A	7	6/25/15	0745	AF-	1	X	X		
062615-1D-15-A	8	6/26/15	0930	AF	1	X	X		
062615-1D-12-A	9	6/26/15	1400	AF	1	X	X		
062715-1D-12-A	10	6/27/15	0730	AF	1	X	X		
062915-1D-10-A	11	6/29/15	0730	AF	1	X	X		
063015-1D-19-A	12	6/30/15	0730	AF	1	X	X	REC'D JUL 22 2015	
070915-1D-4-A	13	7/9/15	0730	AF	1	X	X		
071015-1D-8-A	14	7/10/15	0730	AF	1	X	X		
071115-1D-6-A	15	7/11/15	0730	AF	1	X	X		
071315-1D-16-A	16	7/13/15	0730	AF	1	X	X		
071415-1D-5-A	17	7/14/15	0730	AF	1	X	X		
071515-1D-20-A	18	7/15/15	0900	AF	1	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake		7/16/15	1130
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Kristen Conlon	7/22/15	1003
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☐
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other _____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	07/22/2015	28	15-07145
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	ENG BOR 1-D	H	08/12/2015	08/18/2015	08/19/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	GaGbT	ThISO																						Ttl
01	LCS	07/22/15	AF	S1.3	X	X																						2
02	BLANK	07/22/15	AF	S1.3	X	X																						2
03	DUP	07/22/15	AF	S1.3	X	X																						2
04	070115-1D-3-A	07/01/15 07:30	AF	S1.3	X	X																						2
05	062315-1D-11-A	06/23/15 07:50	AF	S1.3	X	X																						2
06	062415-1D-15-A	06/24/15 07:30	AF	S1.3	X	X																						2
07	062515-1D-15-A	06/25/15 07:45	AF	S1.3	X	X																						2
08	062615-1D-15-A	06/26/15 09:30	AF	S1.3	X	X																						2
09	062615-1D-12-A	06/26/15 14:00	AF	S1.3	X	X																						2
10	062715-1D-12-A	06/27/15 07:30	AF	S1.3	X	X																						2
11	062915-1D-10-A	06/29/15 07:30	AF	S1.3	X	X																						2
12	063015-1D-19-A	06/30/15 07:30	AF	S1.3	X	X																						2
13	070915-1D-4-A	07/09/15 07:30	AF	S1.3	X	X																						2
14	071015-1D-8-A	07/10/15 07:30	AF	S1.3	X	X																						2
15	071115-1D-6-A	07/11/15 07:30	AF	S1.3	X	X																						2
16	071315-1D-16-A	07/13/15 07:30	AF	S1.3	X	X																						2
17	071415-1D-5-A	07/14/15 07:30	AF	S1.3	X	X																						2
18	071515-1D-20-A	07/15/15 09:00	AF	S1.3	X	X																						2
																												0
																												0
		Totals Per Analysis (non QA samples)			15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice	West Lake Landfill OU-1 Resp AMO Environmental Decisions PO Box 410 Danboro, PA 18916
Voice	215-230-8282
Fax	215-230-8283
Contact	Marsha Joseph
Voice	865-675-3669
Fax	865-675-3677

Report Data	Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill St, Suite 1 Knoxville, TN 37932	Marsha Joseph Auxier, Inc. 9821 Cogdill St, Suite 1 Knoxville, TN 37932
Voice	865-675-0379	865-675-3669
Fax	865-675-3677	865-675-3677

Printed: 7/22/2015 4:38 PM

Chain of Custody Record

№ 7140

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: BRIDGETON	Project Number: BOR/ENG 1-D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9871 COGDILL RD #1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 807076411010
Phone: 865-675-3669	Laboratory Receiving:
Fax: CGREEN@AUXIER.COM	

Page 1 of 1

Purchase Order #: ENG/FINAL 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Gamma Spec	150 Thorium	150 Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRIS1D-19.061-063	7/8/15	1018	S	1	X	X	X	CAUTION: SHARP	
DUPLICATE #3	7/8/15	1018	S	1	X	X	X	OBJECTS IN	
FEEBRIS1D-10.046-049	7/9/15	1210	S	1	X	X	X	SAMPLE	
FEEBRIS1D-10.074-076	7/12/15	1041	S	1	X	X	X	CONTAINERS!!	

Relinquished by: (Signature) Jim Drake	Received by: (Signature)	Date: 7/14/15	Time: 1100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☒
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other _____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Chain of Custody Record

№ 7140

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Page 1 of 1

Project Name: BRIDGETON	Project Number: BOREHOLE I-D
Send Report To: C. GREENE	Sampler (Print Name): Jim DENKE
Address: 9871 COGDILL RD #1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 8070 7641 1010
Phone: 865-675-3669	Laboratory Receiving:
Fax: C.GREEN@AMEC.COM	

15-07092

Purchase Order #: BOREHOLE I-D

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gamma Spec	15D Thorium	15D Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRISID-19.061-063	7/8/15	1018	S	1	X	X	X		
5	DUPLICATE #3	7/8/15	1018	S	1	X	X	X		
6	FEEBRISID-10.046-049	7/9/15	1210	S	1	X	X	X		
7	FEEBRISID-10.074-076	7/10/15	1041	S	1	X	X	X		

REC'D JUL 15 2015

REC'D JUL 15 2015

		Date	Time
Relinquished by: (Signature) Jim Drake	Received by: (Signature)	7/14/15	1100
Relinquished by: (Signature)	Received by: (Signature) Kristen Coulston	7/15/15	1200
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround	
Level I	☐	Routine	☒
Level II	☐	24 Hour	☐
Level III	☐	1 Week	☐
Other	☐	Other	☐

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	07/15/2015	28	15-07092
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	Bridgeton ENG/BOR 1-D	H	08/05/2015	08/11/2015	08/12/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																							Tti
01	LCS	07/15/15	SO	C1.1	X	X	X																							3
02	BLANK	07/15/15	SO	C1.1	X	X	X																							3
03	DUP	07/15/15	SO	C1.1	X	X	X																							3
04	FEEBRIS1D-19 061-063	07/08/15 10:18	SO	C1.1	X	X	X																							3
05	DUPLICATE 3	07/08/15 10:18	SO	C1.1	X	X	X																							3
06	FEEBRIS1D-10 046-049	07/09/15 12:10	SO	C1.1	X	X	X																							3
07	FEEBRIS1D-10 074-076	07/12/15 10:41	SO	C1.1	X	X	X																							3
																														0

Chain of Custody Record

№ 7142

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1-D	Project Number: ENG/BOR 1-D
Send Report To: A. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 COGDILL RD STE 1 KNOXVILLE, TN 37932	Sampler (Print Name):
	Shipment Method: FED-X
Phone: 865-675-3669	Airbill Number: 8045-4989 6559
Fax: 865-675-3677	Laboratory Receiving:

Page 1 of 1

Purchase Order #: ENG/BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GAMMA SPEC	ISOTOPIC Th	ISOTOPIC URANIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRISID-3.028-029	7.6.15	1126	S	1	X	X	X		
FEEBRISID-3.041-043	7.6.15	1309	S	1	X	X	X		
DUPLICATE #2	7.6.15	1309	S	1	X	X	X		
FEEBRISID-12.061-062 x2	7.6.15	1007	S	1	X	X	X		
FEEBRISID-12.074-075	7.6.15	1030	S	1	X	X	X		
FEEBRISID-15.077-080	7.2.15	1550	S	1	X	X	X		
FEEBRISID-15.085-086	7.2.15	1522	S	1	X	X	X		
FEEBRISID-11.085-086	7.2.15	1026	S	1	X	X	X		
FEEBRISID-11.087-088	7.2.15	1040	S	1	X	X	X		
~~DUPLICATE #1~~ JP	~~7.2.15~~	~~1415~~	~~S~~	~~1~~	~~X~~	~~X~~	~~X~~		

JP

Relinquished by: (Signature) Jim Drake	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround		Sample Receipt	
Level I	☐	Routine	☒	Total # Containers Received?	
Level II	☐	24 Hour	☐	COC Seals Present?	
Level III	☐	1 Week	☐	COC Seals Intact?	
Other	☐	Other		Received Containers Intact?	

Chain of Custody Record

№ 7141

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1-D	Project Number: ENG/BOR 1-D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9871 COGDILL RD STE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 8045 4989 6401
Phone: 865-675-3469	Laboratory Receiving:
Fax:	

Page 1 of 1

Purchase Order #: ENG/BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GAMMA SPEC	ISOTOPIC TH	ISOTOPIC U	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRISD-11-087-088	7/2/15	1040	S	1	X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☑
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other _____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Chain of Custody Record

№ 7142

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: EnL/BOR 1-D	Project Number: EnL/BOR 1-D
Send Report To: a. GREENE	Sampler (Print Name): Jim DRAKE
Address: 9821 COGDILL RD STE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 8045-4989 6559
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

Page 1 of 1

15-07047

Purchase Order #: EnL/BOR 1-D

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gamma Spec	Isotopic Th	Isotopic Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRISID-3.028-029	7.6.15	1126	S	1	X	X	X		
5	FEEBRISID-3.041-043	7.6.15	1309	S	1	X	X	X		
6	DUPLICATE #2	7.6.15	1309	S	1	X	X	X		
7	FEEBRISID-12.061-062	7.6.15	1007	S	1	X	X	X		
8	FEEBRISID-12.071-075	7.6.15	1030	S	1	X	X	X		
9	FEEBRISID-15.077-080	7.2.15	1556	S	1	X	X	X		
10	FEEBRISID-15.085-086	7.2.15	1522	S	1	X	X	X		
11	FEEBRISID-11.085-086	7.2.15	1026	S	1	X	X	X		
12	FEEBRISID-11.087-088	7.2.15	1040	S	1	X	X	X		
	~~DUPLICATE #1~~ X NBD 7/9/15	6.12.15	1415	S	1	X	X	X		
	* Did Not Receive Client Notified C. Greene / K. Shanklis 7-9-15									

RECD JUL 09 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake	Kristen Coulston	7/9/15	1100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☒
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other ____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	07/09/2015	28	15-07047
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	Bridgeton ENG/BOR 1-D	H	07/31/2015	08/05/2015	08/06/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																							Ttl
01	LCS	07/10/15	SO	C1.1	X	X	X																							3
02	BLANK	07/10/15	SO	C1.1	X	X	X																							3
03	DUP	07/10/15	SO	C1.1	X	X	X																							3
04	FEEBRISID-3 028-029	07/06/15 11:26	SO	C1.1	X	X	X																							3
05	FEEBRISID-3 041-043	07/06/15 13:09	SO	C1.1	X	X	X																							3
06	DUPLICATE 2	07/06/15 13:09	SO	C1.1	X	X	X																							3
07	FEEBRISID-12 061-062	07/06/15 10:07	SO	C1.1	X	X	X																							3
08	FEEBRISID-12 074-075	07/06/15 10:30	SO	C1.1	X	X	X																							3
09	FEEBRISID-15 077-080	07/02/15 15:50	SO	C1.1	X	X	X																							3
10	FEEBRISID-15 085-086	07/02/15 15:22	SO	C1.1	X	X	X																							3
11	FEEBRISID-11 085-086	07/02/15 10:26	SO	C1.1	X	X	X																							3
12	FEEBRISID-11 087-088	07/02/15 10:40	SO	C1.1	X	X	X																							3
																														0
																														0
																														0
																														0
																														0
																														0
																														0
																														0
Totals Per Analysis (non QA samples)					9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		
	Westlake LF OU-1 Resp	
	AMO Environmental Decisions	
	PO Box 410	
	Danboro, PA 18916	
Voice	215-230-8282	
Fax	215-230-8283	
Contact	Marsha Joseph	
Voice	865-675-3669	
Fax	865-675-3677	

Report Data		
	Cecilia Greene	Marsha Joseph
	Auxier & Associates, Inc.	Auxier, Inc.
	9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Knoxville, TN 37932	Knoxville, TN 37932
Voice	865-675-0379	865-675-3669
Fax	865-675-3677	865-675-3677

Printed: 7/10/2015 11:17 AM

Chain of Custody Record

№ 7144

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

BRIDGETON

Project Name: ENG/BOR 1 D	Project Number: ENG/BOR 1-D
Send Report To: C. GREENE	Sampler (Print Name): Jim DRAKE
Address: 9821 COGDILL RD ST#1	Sampler (Print Name):
KNOXVILLE, TN. 37932	Shipment Method: FED-X
	Airbill Number: 804541989657O
Phone: 865-675-3669	Laboratory Receiving:
Fax:	

Page 1 of 1

Purchase Order #: ENG/BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GROSS ALPHA/BETA	Analysis Requested: ISOTOPIC THORIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
060315-13A	6/3/15	1830	AF	1	X	X		
060515-13B	6/5/15	1830		1	X	X		
060415-13C	6/4/15	2000		1	X	X		
060615-14	6/6/15	1630		1	X	X		
060815-9A	6/8/15	1600		1	X	X		
060915-9B	6/9/15	1500		1	X	X		
061015-17	6/10/15	1500		1	X	X		
061015-1	6/10/15	2000		1	X	X		
061115-2	6/11/15	1830		1	X	X		
061215-18	6/12/15	1430		1	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake		6/19/15	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
Level I ☐	Routine ☑	Total # Containers Received?	
Level II ☐	24 Hour ☐	COC Seals Present?	
Level III ☐	1 Week ☐	COC Seals Intact?	
Other ☐	Other _____	Received Containers Intact?	
		Temperature?	

Chain of Custody Record

№ 7144

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

BRIDGETON

Project Name: ENG/BOR 1 D	Project Number: ENG/BOR 1-D
Send Report To: C. GREENE	Sampler (Print Name): Jim DRAKE
Address: 9821 COGDILL RD ST#1	Sampler (Print Name):
KNOXVILLE, TN. 37932	Shipment Method: FED-X
	Airbill Number: 804549896570
Phone: 865-675-3669	Laboratory Receiving:
Fax:	

Page 1 of 1

15-06102

Purchase Order #: ENG/BOR 1-D

Field Sample ID		Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GROSS ALPHA/BETA	Analysis Requested: ISOTOPIC THORIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
060315-13A	4	6/3/15	1830	AF	1	X	X		
060515-13B	5	6/5/15	1830		1	X	X		
060415-13C	6	6/4/15	2000		1	X	X		
060615-14	7	6/6/15	1630		1	X	X		
060815-9A	8	6/8/15	1600		1	X	X		
060915-9B	9	6/9/15	1500		1	X	X	REC'D JUN 24 2015	47mm filters
061015-17	10	6/10/15	1500		1	X	X		
061015-1	11	6/10/15	2000		1	X	X		
061115-2	12	6/11/15	1830		1	X	X		
061215-18	13	6/12/15	1430		1	X	X		

Relinquished by: (Signature) Jim Drake	Received by: (Signature)	Date: 6/19/15	Time:
Relinquished by: (Signature)	Received by: (Signature) Kristen Coulston	Date: 6/24/15	Time: 840
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
Level I ☐	Routine ☒	Total # Containers Received?	
Level II ☐	24 Hour ☐	COC Seals Present?	
Level III ☐	1 Week ☐	COC Seals Intact?	
Other ☐	Other _____	Received Containers Intact?	
		Temperature?	

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	06/24/2015	28	15-06102
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	ENG/BOR.1D	H	07/15/2015	07/21/2015	07/22/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	GaGbT	ThISO	Ttl
01	LCS	06/24/15	AF	A1.0	X	X	2
02	BLANK	06/24/15	AF	A1.0	X	X	2
03	DUP	06/24/15	AF	A1.0	X	X	2
04	060315-13A	06/03/15 18:30	AF	A1.0	X	X	2
05	060515-13B	06/05/15 18:30	AF	A1.0	X	X	2
06	060415-13C	06/04/15 20:00	AF	A1.0	X	X	2
07	060615-14	06/06/15 16:30	AF	A1.0	X	X	2
08	060815-9A	06/08/15 16:00	AF	A1.0	X	X	2
09	060915-9B	06/09/15 15:00	AF	A1.0	X	X	2
10	061015-17	06/10/15 15:00	AF	A1.0	X	X	2
11	061015-1	06/10/15 20:00	AF	A1.0	X	X	2
12	061115-2	06/11/15 18:30	AF	A1.0	X	X	2
13	061215-18	06/12/15 14:30	AF	A1.0	X	X	2
							0
							0
							0
							0
							0
							0
							0
		Totals Per Analysis (non QA samples)			10	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice	Westlake LF OU-1 Resp AMO Environmental Decisions PO Box 410 Danboro, PA 18916
Voice	215-230-8282
Fax	215-230-8283
Contact	Marsha Joseph
Voice	865-675-3669
Fax	865-675-3677

Report Data	Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill St, Suite 1 Knoxville, TN 37932	Marsha Joseph Auxier, Inc. 9821 Cogdill St, Suite 1 Knoxville, TN 37932
Voice	865-675-0379	865-675-3669
Fax	865-675-3677	865-675-3677

Printed: 6/25/2015 8:37 AM

Auxier & Associates, Inc.
9821 Cogdill Road
Suite 1
Knoxville, TN 37932
(423) 675-3669

Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

CHAIN OF CUSTODY FORM

Project Name:	ENG/BOR.1D	Project Manager:	Cecilia Greene
Location:	Bridgeton, MO	Telephone No.:	865-675-3669
Sample Custodian:		Fax No.:	865-675-3677

SAMPLE IDENTIFICATION	START COLLECTION	STOP COLLECTION	CFM		TOTAL MINUTES	ml/min	ml
			Start	Stop			
060315-13A	6/3/15 10:00	6/3/15 18:30	2.6	2.5	510	14725	7509629
060515-13B	6/5/15 8:30	6/5/15 18:30	1.5	1.5	600	14158	8495055
060415-13C	6/4/15 15:10	6/4/15 20:00	1.5	1.5	290	14158	4105943
060615-14	6/6/15 8:00	6/6/15 16:30	1.5	1.5	510	14158	7220797
060815-9A	6/8/15 8:00	6/8/15 16:00	1.5	1.5	480	14158	6796044
060915-9B	6/9/15 7:30	6/9/15 15:00	1.5	1.5	450	14158	6371291
061015-17	6/10/15 7:30	6/10/15 15:00	1.5	1.5	450	14158	6371291
061015-1	6/10/15 15:00	6/10/15 20:00	1.5	1.5	300	14158	4247528
061115-2	6/11/15 7:30	6/11/15 18:30	1.5	1.5	660	14158	9344561
061215-18	6/12/2015 7:30	6/12/2015 14:30	1.5	1.5	420	14158	5946538

Relinquished By/Date:	Received In Good Condition By:	Time:	Date:
Method Of Shipment/Tracking #:			
Relinquished By:	Received In Good Condition By:	Time:	Date:
Method Of Shipment:			

Chain of Custody Record

№ 7145

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: BRIDGETON	Project Number: BOR/ENG 1-D
Send Report To: CGREENE	Sampler (Print Name): BABERNATHY
Address: 9821 Cogdill Rd Ste 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method:
	Airbill Number:
Phone: 865-675-3669	Laboratory Receiving:
Fax: CGREENE@AWIER.COM	

Page 1 of 1

Purchase Order #: ENG/BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Gamma Spec	Ra-226	Ra-228	ISO Thorium	ISO Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRISID-09-088-089	6/11/15	0855	S	1	X	X	X	X	X	3-DAY TURNAROUND	
										ALL EXCEPT	
										GAMMA SPEC	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Bill Abernathy	Jim Drake	6/11/15	1100
Jim Drake	FED-X	6/11/15	1130

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
Level I ☐	Routine ☐	Total # Containers Received?	
Level II ☐	24 Hour ☐	COC Seals Present?	
Level III ☐	1 Week ☐	COC Seals Intact?	
Other ☐	Other 3-DAYS	Received Containers Intact?	
		Temperature?	

Chain of Custody Record

№ 7145

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: BRIDGETON	Project Number: BOR/ENG-1-D
Send Report To: CGREENE	Sampler (Print Name): BABBANATHY
Address: 9821 Cogdill RD STE	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method:
	Airbill Number:
Phone: 865-675-3669	Laboratory Receiving:
Fax: CGREENE@AWIER.COM	

Page 1 of 1

15-06043

Purchase Order #: ENG/BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Gamma Spec	Ra-226	Ra-228	ISO Thorium	ISO Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4 FEEBRISID-09-088-089	6/11/15	0855	S	1	X	X	X	X	X	3-DAY TURNAROUND ALL EXCEPT GAMMA SPEC	

REC'D JUN 12 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Bob Babbanathy	Jim Drake	6/11/15	1100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake	FED-X	6/11/15	1130
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Kathy Shanlis	6/12/15	0845

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround	
Level I	☐	Routine	☐
Level II	☐	24 Hour	☐
Level III	☐	1 Week	☐
Other	☐	Other 3-DAYS	

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Auxier & Associates, Inc.
9821 Cogdill Road
Suite 1
Knoxville, TN 37932
(423) 675-3669

Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

CHAIN OF CUSTODY FORM

Project Name:	Westlake Landfill	Project Manager:	
Location:	Bridgeton, Missouri	Telephone No.:	865-675-3669
Sample Custodian: 1	BILL ABERNATHY / ALEX LUNA	Fax No.:	865-675-3677

SAMPLE IDENTIFICATION	2 DATE OF COLLECTION	SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	DATE OF COLLECTION	SAMPLE DESCRIPTION
AMBIENT DETECTOR 1	7/23/15	TLD	AMBIENT DETECTOR 13	7/23/15	TLD
AMBIENT DETECTOR 2	7/24/15	TLD	Duplicate	7/23/15	TLD
AMBIENT DETECTOR 3	7/23/15	TLD			
AMBIENT DETECTOR 4	7/23/15	TLD			
AMBIENT DETECTOR 5	7/23/15	TLD			
AMBIENT DETECTOR 6	7/23/15	TLD			
AMBIENT DETECTOR 7	7/23/15	TLD			
AMBIENT DETECTOR 8	7/23/15	TLD			
AMBIENT DETECTOR 9	7/23/15	TLD			
AMBIENT DETECTOR 10	7/23/15	TLD			
AMBIENT DETECTOR 11	7/23/15	TLD			
AMBIENT DETECTOR 12	7/23/15	TLD			

Relinquished By: 3		4 Received In Good Condition By:	Time:	Date:
Method Of Shipment:	FedEx 804549896489	5		
Relinquished By:		Received In Good Condition By:	Time:	Date:
Method Of Shipment:				

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Mr. Paul Rosasco
Company: Engineering Management Support, Inc.
Address: 7220 W. Jefferson AVE Suite 406
City: Lakewood
State, Zip: CO, 80235
Phone:
Email: paulrosasco@emsidenver.com
Project Name: West Lake Landfill
Site:

Sampler: Bill Abernathy / Jim Drake
Phone:
Lab PM: Gish, Erika K
E-Mail: erika.gish@testamericainc.com
Carrier Tracking No(s): hand delivered

COC No: 160-2800-1326.4
Page: Page 4 of 4
Job #:

Due Date Requested:
TAT Requested (days): Rush
PO #: Purchase Order not required
WO #:
Project #: 16002280
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9056A_ORGFM_28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
FEEBRISID-09.088-089	6/11/15	0850	G	S			✓	✓	✓	✓	✓	✓	3	Rush TAT

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑ Radiological

Deliverable Requested: I, II, III, (IV) Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	6/11/15 1510	FEI	Gail Clarke	6.11.15 1510	TASTL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

estAmerica St. Louis
1715 Rider Trail North
arth City, MO 63045
hone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

lient Information

ient Contact: r. Paul Rosasco	Sampler: Bill Abernathy / Alex Luna
ompany: ngineering Management Support, Inc.	Phone:
ddress: 220 W. Jefferson AVE Suite 406	Lab PM: Gish, Erika K
ity: akewood	E-Mail: erika.gish@testamericainc.com
tate, Zip: O, 80235	Carrier Tracking No(s): hand delivered
hone:	COC No: 160-2800-1326.2
mail: aulrosasco@emsidenver.com	Page: Page 2 of 4
roject Name: West Lake Landfill	Job #:
ite:	Due Date Requested:
	TAT Requested (days):
	PO #: Purchase Order not required
	WO #:
	Project #: 16002280
	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9056A_ORGFM_28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
FEEBRIS1D-13.093-094	6/12/15	1415	G	S			✓	✓	✓	✓	✓	✓	3	
FEEBRIS1D-13.085-086	6/12/15	1432	G	S			✓	✓	✓	✓	✓	✓	3	
FEEBRIS1D-14.082-084	6/12/15	1451	G	S			✓	✓	✓	✓	✓	✓	3	
FEEBRIS1D-14.054-056	6/12/15	1458	G	S			✓	✓	✓	✓	✓	✓	3	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, (IV) Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 6/12/15 1625	Company FEI	Received by:	Date/Time: 6/12/15 1625	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 27

Cooler Temperature(s) °C and Other Remarks:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 6/17/15	COC No: 160-2800-1326.1
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks ☑ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: West Lake Landfill				Job / SDG No.:
Project Number: 16002280				
P O # Not Required				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B Moisture - Moisture	6010B - Scandium	Sample Specific Notes:
			Preservation code					N	N	N	N	N	N	
FEEBRIS1D-09.099-100 ✓	6/17/15	1314	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-09.078-079 ✓	6/17/15	1300	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-01.007-009 ✓	6/22/15	1007	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-01.024-027 ✓	6/22/15	1015	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-02.027-030 ✓	6/22/15	1104	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-02.020-023 ✓	6/22/15	1120	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-02.036-037 ✓	6/22/15	1130	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-18.013-014 ✓	6/22/15	1247	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-18.038-041 ✓	6/22/15	1256	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-18.044-046 ✓	6/22/15	1304	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-17.030-031 ✓	6/22/15	1456	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-17.033-036 ✓	6/22/15	1503	G	S	3			✓	✓	✓	✓	✓	✓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	FEI	6/24/15 0850		TA St Louis	6-24-15 / 0850
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/6/15	COC No: 160-2800-1326.3
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			
Project Number: 16002280	☐ 2 days			Job / SDG No.:
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	Sample Specific Notes:
			Preservation code					N	N	N	N	N	N	
FEEBRIS1D-3.028-029 ✓	7/6/15	1126	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-3.041-043 ✓	7/6/15	1309	G	S	3			✓	✓	✓	✓	✓	✓	
DUPLICATE #2	7/6/15	1309	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-12.061-062 ✓ sent back	7/6/15	1007	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-12.074-075 ✓	7/6/15	1030	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-15.077-080 ✓	7/2/15	1550	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-15.085-086 ✓	7/2/15	1522	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-11.085-086 ✓	7/2/15	1026	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-11.087-088 ✓	7/2/15	1040	G	S	3			✓	✓	✓	✓	✓	✓	
DUPLICATE #1	6/12/15	1415	G	S	3			✓	✓	✓	✓	✓	✓	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: FEI	Date/Time: 7/6/15 1447	Received by:	Company: TA STL	Date/Time: 7-6-15 1447
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

11

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/14/15	COC No: 160-2800-1326.5
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			Job / SDG No.:
Project Number: 16002280	☐ 2 days			
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	Sample Specific Notes:
			Preservation code					N	N	N	N	N	N	
FEEBRIS1D-19.061-063 ✓	7/8/15	1018	G	S	3			✓	✓	✓	✓	✓	✓	
DUPLICATE #3	7/8/15	1018	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-10.046-049 ✓	7/9/15	1210	G	S	3			✓	✓	✓	✓	✓	✓	
FEEBRIS1D-10.074-076 ✓	7/12/15	1041	G	S	3			✓	✓	✓	✓	✓	✓	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	FEI	7/14/15 1115	[signature]	TA St Louis	7-14-15/1115
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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Chain of Custody Record

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/27/15	COC No: 160-2800-1326.6
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks ☑ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: West Lake Landfill				Job / SDG No.:
Project Number: 16002280				
P O # Not Required				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	FLUORIDE	Sample Specific Notes:
			Preservation code					N	N	N	N	N	N		
FEEBRIS1D-5.063-064	7/20/15	1428	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-5.051-052	7/20/15	1404	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-6.080-081	7/21/15	0953	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-6.085-086	7/21/15	0958	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-7.093-094	7/24/15	1450	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-16.050-051	7/27/15	0944	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-16.059-061	7/27/15	1014	G	S	3			✓	✓	✓	✓	✓	✓	✓	
DUPLICATE #4	7/27/15	1014	G	S	3			✓	✓	✓	✓	✓	✓	✓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: FEI	Date/Time: 7/29/15 1000	Received by:	Company: TAStLouis	Date/Time: 7.29.15 / 1000
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/30/15	COC No: 160-2800-1326.8
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			
Project Number: 16002280	☐ 2 days			Job / SDG No.:
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	FLUORIDE	Sample Specific Notes:
			Preservation code			N	N	N	N	N	N	N	N		
FEEBRIS1D-7.084-085	7/24/15	0807	G	S	2			✓	✓	✓	✓	✓	✓	✓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested. Radiologically impacted sample

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	FEI	7/30/15 1615	Received by:	TA SR	7-30-15 1515
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/30/15	COC No: 160-2800-1326.7
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			
Project Number: 16002280	☐ 2 days			Job / SDG No.:
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	FLUORIDE	Sample Specific Notes:
			Preservation code					N	N	N	N	N	N		
FEEBRIS1D-8.075-076	7/29/15	0906	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-8.090-091	7/29/15	0941	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-4.061-062	7/30/15	0735	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-4.064-065	7/30/15	0740	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-20.080-081	7/30/15	0957	G	S	3			✓	✓	✓	✓	✓	✓	✓	
DUPLICATE #5	7/30/15	0957	G	S	3			✓	✓	✓	✓	✓	✓	✓	
FEEBRIS1D-20.089-090	7/30/15	1024	G	S	3			✓	✓	✓	✓	✓	✓	✓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: FEI	Date/Time: 7/30/15 1515	Received by:	Company: TA STL	Date/Time: 7-30-15 1515
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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APPENDIX G:

Laboratory Analytical Reports
and
Data Validation Reports

G-1: Eberline Analytical Data: Phase 1C Samples

G-2: Eberline Analytical Data: Phase 1D Samples

G-3: Test America Analytical Data: Phase 1D Samples

G-4: Auxier & Associates Phase 1C Data Validation Reports

G-5: EMSI Phase 1D Data Valdiation Reports

Appendix G-1:

Eberline Analytical Data: Phase 1C Samples

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-01113 REVISED
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-01	LCS	KNOWN	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	1/24/2014	1	30				01	CO-60	1.30E+02
14-01113-01	LCS	KNOWN	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	1/24/2014	1	30				01	CS-137	8.30E+01
14-01113-01	LCS	SPIKE	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Cobalt-60	LANL ER-130 Modified	1.37E+02	8.47E+00	1.10E+01	7.46E-01	pCi/g	1/24/2014	1	30				01	CO-60	1.30E+02
14-01113-01	LCS	SPIKE	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Cesium-137	LANL ER-130 Modified	8.94E+01	9.50E+00	1.05E+01	1.01E+00	pCi/g	1/24/2014	1	30				01	CS-137	8.30E+01
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	9.21E-02	7.08E-02	7.10E-02	1.44E-01	pCi/g	1/24/2014	1	60				02	AC-228	
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	3.54E-02	4.68E-02	4.68E-02	8.05E-02	pCi/g	1/24/2014	1	60				02	BI-214	
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	2.23E-01	1.97E-01	1.97E-01	4.21E-01	pCi/g	1/24/2014	1	60				02	K-40	
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-3.44E-01	4.19E-01	4.19E-01	7.40E-01	pCi/g	1/24/2014	1	60				02	PA-231	
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	3.68E-01	4.06E-01	4.07E-01	5.95E-01	pCi/g	1/24/2014	1	60				02	PB-210	
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	4.33E-02	3.38E-02	3.38E-02	6.27E-02	pCi/g	1/24/2014	1	60				02	PB-214	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	7.06E-01	1.53E-01	1.57E-01	3.06E-01	pCi/g	1/24/2014	607.92	60				03	AC-228	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	8.83E-01	1.27E-01	1.35E-01	1.97E-01	pCi/g	1/24/2014	607.92	60				03	BI-214	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	9.83E+00	1.39E+00	1.47E+00	9.25E-01	pCi/g	1/24/2014	607.92	60				03	K-40	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-1.17E-01	1.05E+00	1.05E+00	1.65E+00	pCi/g	1/24/2014	607.92	60				03	PA-231	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.34E+00	8.60E-01	8.63E-01	1.22E+00	pCi/g	1/24/2014	607.92	60				03	PB-210	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	6.92E-01	9.48E-02	1.01E-01	2.49E-01	pCi/g	1/24/2014	607.92	60				03	PB-212	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	9.41E-01	1.20E-01	1.29E-01	1.89E-01	pCi/g	1/24/2014	607.92	60				03	PB-214	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	5.96E-01	1.18E-01	1.22E-01	1.29E-01	pCi/g	1/24/2014	607.92	60				03	TL-208	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	6.85E-01	1.24E-01	1.28E-01	4.38E-01	pCi/g	1/24/2014	607.92	60				04	AC-228	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	9.02E-01	1.33E-01	1.41E-01	1.75E-01	pCi/g	1/24/2014	607.92	60				04	BI-214	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.09E+01	1.43E+00	1.54E+00	6.55E-01	pCi/g	1/24/2014	607.92	60				04	K-40	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-1.27E+00	1.14E+00	1.14E+00	1.69E+00	pCi/g	1/24/2014	607.92	60				04	PA-231	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	6.69E-01	7.53E-01	7.54E-01	1.26E+00	pCi/g	1/24/2014	607.92	60				04	PB-210	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	6.75E-01	9.47E-02	1.01E-01	2.00E-01	pCi/g	1/24/2014	607.92	60				04	PB-212	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	8.92E-01	1.14E-01	1.23E-01	2.58E-01	pCi/g	1/24/2014	607.92	60				04	PB-214	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	5.26E-01	1.01E-01	1.05E-01	1.35E-01	pCi/g	1/24/2014	607.92	60				04	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-01113 REVISED**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	8.37E-01	2.37E-01	2.41E-01	5.06E-01	pCi/g	1/24/2014	290.42	60				05	AC-228	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	8.22E-01	1.92E-01	1.97E-01	2.92E-01	pCi/g	1/24/2014	290.42	60				05	BI-214	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	9.40E+00	1.68E+00	1.75E+00	8.83E-01	pCi/g	1/24/2014	290.42	60				05	K-40	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-8.14E-01	1.88E+00	1.88E+00	2.99E+00	pCi/g	1/24/2014	290.42	60				05	PA-231	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.69E+00	1.52E+00	1.52E+00	2.52E+00	pCi/g	1/24/2014	290.42	60				05	PB-210	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	8.57E-01	1.93E-01	1.98E-01	2.58E-01	pCi/g	1/24/2014	290.42	60				05	PB-212	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.02E+00	2.08E-01	2.14E-01	3.24E-01	pCi/g	1/24/2014	290.42	60				05	PB-214	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	6.29E-01	2.05E-01	2.07E-01	3.62E-01	pCi/g	1/24/2014	290.42	60				05	TL-208	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	4.83E-01	1.56E-01	1.58E-01	3.22E-01	pCi/g	1/24/2014	610.29	60				06	AC-228	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	8.97E-01	1.44E-01	1.52E-01	3.90E-01	pCi/g	1/24/2014	610.29	60				06	BI-214	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	9.80E+00	1.61E+00	1.69E+00	1.20E+00	pCi/g	1/24/2014	610.29	60				06	K-40	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	8.28E-01	1.47E+00	1.47E+00	2.28E+00	pCi/g	1/24/2014	610.29	60				06	PA-231	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	7.34E-01	9.18E-01	9.19E-01	1.53E+00	pCi/g	1/24/2014	610.29	60				06	PB-210	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	5.27E-01	8.98E-02	9.37E-02	2.82E-01	pCi/g	1/24/2014	610.29	60				06	PB-212	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	8.38E-01	1.42E-01	1.48E-01	1.86E-01	pCi/g	1/24/2014	610.29	60				06	PB-214	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	5.57E-01	1.72E-01	1.74E-01	3.20E-01	pCi/g	1/24/2014	610.29	60				06	TL-208	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	9.93E-01	2.92E-01	2.96E-01	6.12E-01	pCi/g	1/24/2014	594.66	120				07	AC-228	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.32E+00	2.23E-01	2.33E-01	3.31E-01	pCi/g	1/24/2014	594.66	120				07	BI-214	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.75E+01	2.41E+00	2.57E+00	1.38E+00	pCi/g	1/24/2014	594.66	120				07	K-40	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-3.84E-01	7.75E-01	7.75E-01	3.37E+00	pCi/g	1/24/2014	594.66	120				07	PA-231	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	6.29E-01	9.46E-01	9.47E-01	1.40E+00	pCi/g	1/24/2014	594.66	120				07	PB-210	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.44E+00	2.23E-01	2.35E-01	2.68E-01	pCi/g	1/24/2014	594.66	120				07	PB-212	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.29E+00	1.79E-01	1.91E-01	4.02E-01	pCi/g	1/24/2014	594.66	120				07	PB-214	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.27E+00	2.61E-01	2.69E-01	3.01E-01	pCi/g	1/24/2014	594.66	120				07	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-01113 REVISED**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.42E+00	2.39E-01	2.50E-01	3.50E-01	pCi/g	1/24/2014	523.36	60				08	AC-228	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.40E+00	1.91E-01	2.04E-01	2.44E-01	pCi/g	1/24/2014	523.36	60				08	BI-214	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	2.07E+01	2.51E+00	2.73E+00	1.05E+00	pCi/g	1/24/2014	523.36	60				08	K-40	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	1.04E-01	6.89E-01	6.89E-01	2.29E+00	pCi/g	1/24/2014	523.36	60				08	PA-231	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.35E+00	1.11E+00	1.11E+00	1.83E+00	pCi/g	1/24/2014	523.36	60				08	PB-210	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.59E+00	2.06E-01	2.21E-01	2.24E-01	pCi/g	1/24/2014	523.36	60				08	PB-212	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.35E+00	1.61E-01	1.76E-01	2.35E-01	pCi/g	1/24/2014	523.36	60				08	PB-214	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.17E+00	1.83E-01	1.92E-01	1.41E-01	pCi/g	1/24/2014	523.36	60				08	TL-208	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.48E+00	2.82E-01	2.92E-01	6.02E-01	pCi/g	1/24/2014	543.21	60				09	AC-228	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	4.78E+00	4.42E-01	5.05E-01	3.09E-01	pCi/g	1/24/2014	543.21	60				09	BI-214	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.86E+01	2.52E+00	2.70E+00	1.20E+00	pCi/g	1/24/2014	543.21	60				09	K-40	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	5.59E+00	2.68E+00	2.69E+00	4.25E+00	pCi/g	1/24/2014	543.21	60				09	PA-231	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	4.69E+00	2.08E+00	2.09E+00	3.30E+00	pCi/g	1/24/2014	543.21	60				09	PB-210	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.40E+00	1.91E-01	2.04E-01	3.33E-01	pCi/g	1/24/2014	543.21	60				09	PB-212	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	5.35E+00	4.34E-01	5.14E-01	3.27E-01	pCi/g	1/24/2014	543.21	60				09	PB-214	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.28E+00	2.97E-01	3.05E-01	5.12E-01	pCi/g	1/24/2014	543.21	60				09	TL-208	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.61E+00	3.08E-01	3.19E-01	4.58E-01	pCi/g	1/24/2014	527.17	120				10	AC-228	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.36E+00	2.27E-01	2.38E-01	2.83E-01	pCi/g	1/24/2014	527.17	120				10	BI-214	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.97E+01	2.71E+00	2.89E+00	1.55E+00	pCi/g	1/24/2014	527.17	120				10	K-40	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-1.79E+00	2.00E+00	2.00E+00	3.75E+00	pCi/g	1/24/2014	527.17	120				10	PA-231	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.52E+00	1.24E+00	1.24E+00	2.05E+00	pCi/g	1/24/2014	527.17	120				10	PB-210	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.60E+00	2.71E-01	2.83E-01	2.93E-01	pCi/g	1/24/2014	527.17	120				10	PB-212	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.37E+00	2.23E-01	2.34E-01	3.04E-01	pCi/g	1/24/2014	527.17	120				10	PB-214	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.50E+00	2.80E-01	2.90E-01	3.89E-01	pCi/g	1/24/2014	527.17	120				10	TL-208	

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Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-01113 REVISED
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.67E+00	2.18E-01	2.34E-01	3.42E-01	pCi/g	1/24/2014	543.17	60				11	AC-228	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.17E+00	1.78E-01	1.88E-01	2.14E-01	pCi/g	1/24/2014	543.17	60				11	BI-214	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	2.32E+01	2.60E+00	2.86E+00	8.24E-01	pCi/g	1/24/2014	543.17	60				11	K-40	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-2.12E-01	1.40E+00	1.40E+00	2.25E+00	pCi/g	1/24/2014	543.17	60				11	PA-231	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.13E+00	1.14E+00	1.14E+00	1.90E+00	pCi/g	1/24/2014	543.17	60				11	PB-210	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.63E+00	1.77E-01	1.95E-01	2.13E-01	pCi/g	1/24/2014	543.17	60				11	PB-212	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.18E+00	1.71E-01	1.82E-01	2.28E-01	pCi/g	1/24/2014	543.17	60				11	PB-214	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.28E+00	1.85E-01	1.96E-01	1.07E-01	pCi/g	1/24/2014	543.17	60				11	TL-208	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.25E+00	2.50E-01	2.58E-01	4.26E-01	pCi/g	1/24/2014	497.65	60				12	AC-228	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.27E+00	1.83E-01	1.94E-01	2.05E-01	pCi/g	1/24/2014	497.65	60				12	BI-214	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	2.27E+01	2.71E+00	2.95E+00	9.62E-01	pCi/g	1/24/2014	497.65	60				12	K-40	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	7.57E-01	8.01E-01	8.02E-01	2.51E+00	pCi/g	1/24/2014	497.65	60				12	PA-231	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.03E+00	1.36E+00	1.36E+00	1.80E+00	pCi/g	1/24/2014	497.65	60				12	PB-210	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.58E+00	1.80E-01	1.98E-01	2.26E-01	pCi/g	1/24/2014	497.65	60				12	PB-212	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.33E+00	1.71E-01	1.85E-01	2.86E-01	pCi/g	1/24/2014	497.65	60				12	PB-214	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.35E+00	2.02E-01	2.14E-01	1.48E-01	pCi/g	1/24/2014	497.65	60				12	TL-208	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.41E+00	2.50E-01	2.61E-01	3.71E-01	pCi/g	1/24/2014	556.93	60				13	AC-228	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.36E+00	1.95E-01	2.07E-01	2.39E-01	pCi/g	1/24/2014	556.93	60				13	BI-214	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	2.17E+01	2.74E+00	2.96E+00	7.23E-01	pCi/g	1/24/2014	556.93	60				13	K-40	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	7.65E-01	2.09E+00	2.09E+00	3.04E+00	pCi/g	1/24/2014	556.93	60				13	PA-231	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.30E+00	1.49E+00	1.49E+00	2.49E+00	pCi/g	1/24/2014	556.93	60				13	PB-210	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.53E+00	1.82E-01	1.98E-01	2.14E-01	pCi/g	1/24/2014	556.93	60				13	PB-212	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.46E+00	1.80E-01	1.95E-01	2.69E-01	pCi/g	1/24/2014	556.93	60				13	PB-214	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.44E+00	2.85E-01	2.95E-01	4.96E-01	pCi/g	1/24/2014	556.93	60				13	TL-208	

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Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.26E+00	1.99E-01	2.10E-01	3.70E-01	pCi/g	1/24/2014	588.52	60				14	AC-228	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	9.33E-01	1.43E-01	1.51E-01	4.88E-02	pCi/g	1/24/2014	588.52	60				14	BI-214	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.73E+01	2.07E+00	2.25E+00	9.52E-01	pCi/g	1/24/2014	588.52	60				14	K-40	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	1.11E-01	1.25E+00	1.25E+00	1.99E+00	pCi/g	1/24/2014	588.52	60				14	PA-231	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.00E+00	9.76E-01	9.78E-01	1.34E+00	pCi/g	1/24/2014	588.52	60				14	PB-210	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.27E+00	1.43E-01	1.57E-01	1.96E-01	pCi/g	1/24/2014	588.52	60				14	PB-212	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.14E+00	1.34E-01	1.46E-01	2.25E-01	pCi/g	1/24/2014	588.52	60				14	PB-214	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	9.73E-01	1.56E-01	1.64E-01	1.40E-01	pCi/g	1/24/2014	588.52	60				14	TL-208	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	8.75E-01	1.67E-01	1.73E-01	2.94E-01	pCi/g	1/24/2014	588.55	60				15	AC-228	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.22E+00	1.52E-01	1.64E-01	1.53E-01	pCi/g	1/24/2014	588.55	60				15	BI-214	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.50E+01	1.90E+00	2.05E+00	8.27E-01	pCi/g	1/24/2014	588.55	60				15	K-40	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-1.43E+00	1.33E+00	1.33E+00	2.00E+00	pCi/g	1/24/2014	588.55	60				15	PA-231	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	2.22E+00	9.69E-01	9.76E-01	1.41E+00	pCi/g	1/24/2014	588.55	60				15	PB-210	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	9.72E-01	1.24E-01	1.33E-01	2.04E-01	pCi/g	1/24/2014	588.55	60				15	PB-212	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.26E+00	1.49E-01	1.63E-01	2.27E-01	pCi/g	1/24/2014	588.55	60				15	PB-214	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	8.33E-01	1.44E-01	1.50E-01	1.25E-01	pCi/g	1/24/2014	588.55	60				15	TL-208	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.10E+00	2.31E-01	2.37E-01	3.36E-01	pCi/g	1/24/2014	558.68	60				16	AC-228	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.15E+00	1.82E-01	1.91E-01	2.05E-01	pCi/g	1/24/2014	558.68	60				16	BI-214	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.63E+01	2.22E+00	2.37E+00	7.38E-01	pCi/g	1/24/2014	558.68	60				16	K-40	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	3.10E-02	6.69E-01	6.69E-01	2.77E+00	pCi/g	1/24/2014	558.68	60				16	PA-231	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	2.15E+00	1.54E+00	1.54E+00	2.52E+00	pCi/g	1/24/2014	558.68	60				16	PB-210	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.13E+00	1.48E-01	1.59E-01	2.16E-01	pCi/g	1/24/2014	558.68	60				16	PB-212	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.15E+00	1.67E-01	1.77E-01	2.32E-01	pCi/g	1/24/2014	558.68	60				16	PB-214	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.09E+00	2.46E-01	2.52E-01	2.88E-01	pCi/g	1/24/2014	558.68	60				16	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-01113 REVISED**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.33E+00	2.04E-01	2.15E-01	3.98E-01	pCi/g	1/24/2014	553.85	60				17	AC-228	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.31E+00	1.71E-01	1.84E-01	1.96E-01	pCi/g	1/24/2014	553.85	60				17	BI-214	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.96E+01	2.34E+00	2.55E+00	1.16E+00	pCi/g	1/24/2014	553.85	60				17	K-40	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	1.03E-01	6.65E-01	6.65E-01	2.18E+00	pCi/g	1/24/2014	553.85	60				17	PA-231	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.60E+00	1.26E+00	1.26E+00	2.09E+00	pCi/g	1/24/2014	553.85	60				17	PB-210	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.09E+00	1.37E-01	1.48E-01	2.20E-01	pCi/g	1/24/2014	553.85	60				17	PB-212	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.50E+00	1.65E-01	1.82E-01	2.29E-01	pCi/g	1/24/2014	553.85	60				17	PB-214	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.07E+00	1.76E-01	1.85E-01	2.10E-01	pCi/g	1/24/2014	553.85	60				17	TL-208	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.14E+00	2.01E-01	2.09E-01	3.09E-01	pCi/g	1/24/2014	550.47	60				18	AC-228	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.19E+00	1.78E-01	1.89E-01	2.35E-01	pCi/g	1/24/2014	550.47	60				18	BI-214	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	1.99E+01	2.42E+00	2.63E+00	1.12E+00	pCi/g	1/24/2014	550.47	60				18	K-40	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	-2.58E-01	1.41E+00	1.41E+00	2.26E+00	pCi/g	1/24/2014	550.47	60				18	PA-231	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.71E+00	1.26E+00	1.26E+00	2.07E+00	pCi/g	1/24/2014	550.47	60				18	PB-210	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.38E+00	1.60E-01	1.75E-01	2.04E-01	pCi/g	1/24/2014	550.47	60				18	PB-212	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.34E+00	1.58E-01	1.72E-01	2.24E-01	pCi/g	1/24/2014	550.47	60				18	PB-214	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	1.00E+00	1.69E-01	1.77E-01	1.99E-01	pCi/g	1/24/2014	550.47	60				18	TL-208	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	1.39E+00	3.50E-01	3.58E-01	5.63E-01	pCi/g	1/24/2014	500.35	60				19	AC-228	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	1.50E+00	2.22E-01	2.35E-01	2.96E-01	pCi/g	1/24/2014	500.35	60				19	BI-214	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	2.42E+01	3.19E+00	3.42E+00	1.63E+00	pCi/g	1/24/2014	500.35	60				19	K-40	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	4.80E-01	8.32E-01	8.32E-01	3.50E+00	pCi/g	1/24/2014	500.35	60				19	PA-231	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	2.24E+00	1.29E+00	1.29E+00	2.17E+00	pCi/g	1/24/2014	500.35	60				19	PB-210	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	1.47E+00	1.84E-01	1.99E-01	2.96E-01	pCi/g	1/24/2014	500.35	60				19	PB-212	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	1.44E+00	1.92E-01	2.05E-01	2.30E-01	pCi/g	1/24/2014	500.35	60				19	PB-214	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	9.37E-01	2.10E-01	2.15E-01	3.31E-01	pCi/g	1/24/2014	500.35	60				19	TL-208	

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Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-01113 REVISED
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Actinium-228	LANL ER-130 Modified	7.27E-01	3.68E-01	3.70E-01	6.76E-01	pCi/g	1/24/2014	259.44	120				20	AC-228	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Bismuth-214	LANL ER-130 Modified	3.87E-01	3.09E-01	3.10E-01	5.03E-01	pCi/g	1/24/2014	259.44	120				20	BI-214	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Potassium-40	LANL ER-130 Modified	8.06E+00	1.89E+00	1.94E+00	1.50E+00	pCi/g	1/24/2014	259.44	120				20	K-40	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Protactinium-231	LANL ER-130 Modified	7.81E-01	3.04E+00	3.04E+00	4.75E+00	pCi/g	1/24/2014	259.44	120				20	PA-231	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-210	LANL ER-130 Modified	1.81E+00	1.27E+00	1.27E+00	2.00E+00	pCi/g	1/24/2014	259.44	120				20	PB-210	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-212	LANL ER-130 Modified	5.75E-01	1.70E-01	1.73E-01	4.24E-01	pCi/g	1/24/2014	259.44	120				20	PB-212	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Lead-214	LANL ER-130 Modified	3.68E-01	1.88E-01	1.89E-01	3.27E-01	pCi/g	1/24/2014	259.44	120				20	PB-214	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/24/2014	14-01113	Thallium-208	LANL ER-130 Modified	9.51E-01	3.11E-01	3.15E-01	1.14E-01	pCi/g	1/24/2014	259.44	120				20	TL-208	
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	5.50E-02	7.59E-02	7.62E-02	1.24E-01	pCi/g	1/30/2014	1	170.02	3.62		18.5	02	TH-227	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	7.53E-02	8.47E-02	8.52E-02	1.26E-01	pCi/g	1/30/2014	1.0122	170.02	4.79		19.2	03	TH-227	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	2.11E-01	1.24E-01	1.27E-01	9.62E-02	pCi/g	1/30/2014	1.0241	170.02	13.1		20.1	04	TH-227	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.65E-01	1.10E-01	1.11E-01	1.12E-01	pCi/g	1/30/2014	0.999	170.02	11.1		19.3	05	TH-227	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.13E-01	1.17E-01	1.17E-01	1.65E-01	pCi/g	1/30/2014	1.0148	170.02	5.62		18.6	06	TH-227	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	8.79E-02	1.11E-01	1.11E-01	1.77E-01	pCi/g	1/30/2014	1.0029	170.02	4.6		18.3	07	TH-227	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.50E-01	1.12E-01	1.14E-01	9.34E-02	pCi/g	1/30/2014	1.0271	170.02	7.66		14.3	08	TH-227	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	9.40E-01	2.77E-01	3.01E-01	1.22E-01	pCi/g	1/30/2014	1.0001	170	66.3		16.8	09	TH-227	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	8.62E-02	9.36E-02	9.42E-02	1.35E-01	pCi/g	1/30/2014	1.0097	170	4.96		17.7	10	TH-227	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	8.41E-02	8.67E-02	8.73E-02	1.15E-01	pCi/g	1/30/2014	1.0216	170	4.81		18.8	11	TH-227	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.53E-01	1.21E-01	1.22E-01	1.18E-01	pCi/g	1/30/2014	1.0002	170	7.32		13.9	12	TH-227	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.56E-01	1.02E-01	1.04E-01	8.50E-02	pCi/g	1/30/2014	1.0074	170	10.3		17.5	13	TH-227	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	3.69E-01	1.64E-01	1.70E-01	9.71E-02	pCi/g	1/30/2014	0.9995	170	24		16.4	14	TH-227	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.56E-01	9.42E-02	9.61E-02	7.67E-02	pCi/g	1/30/2014	0.9993	170	12.1		17.3	15	TH-227	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.45E-01	1.02E-01	1.03E-01	7.98E-02	pCi/g	1/30/2014	1.0097	170	8.66		15.9	16	TH-227	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	2.34E-01	1.25E-01	1.28E-01	7.92E-02	pCi/g	1/30/2014	1.001	170	15.5		18.5	17	TH-227	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	8.57E-02	7.88E-02	7.96E-02	9.71E-02	pCi/g	1/30/2014	1.0197	170	5.81		18.2	18	TH-227	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.02E-01	8.61E-02	8.70E-02	9.09E-02	pCi/g	1/30/2014	0.9978	170	6.32		16.9	19	TH-227	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/4/2014	14-01113	Actinium-227	EML Th-01 Modified	1.51E-01	1.00E-01	1.02E-01	1.03E-01	pCi/g	1/30/2014	1.0128	170	11.1		18.7	20	TH-227	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-01113 REVISED**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-01	LCS	KNOWN	01/23/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	5.40E+00	1.46E-01			pCi/g	1/30/2014	1	170.02	422		17.4	01	TH-230	5.40E+00
14-01113-01	LCS	SPIKE	01/23/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	6.08E+00	9.54E-01	1.21E+00	6.89E-02	pCi/g	1/30/2014	1	170.02	422		17.4	01	TH-230	5.40E+00
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.25E-01	1.01E-01	1.02E-01	1.24E-01	pCi/g	1/30/2014	1	170.02	8.45		18.5	02	TH-230	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	8.89E-01	2.79E-01	3.00E-01	1.20E-01	pCi/g	1/30/2014	1.0122	170.02	58		19.2	03	TH-230	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.29E+00	3.59E-01	3.93E-01	8.23E-02	pCi/g	1/30/2014	1.0241	170.02	82.5		20.1	04	TH-230	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	2.08E+00	4.85E-01	5.49E-01	8.67E-02	pCi/g	1/30/2014	0.999	170.02	144		19.3	05	TH-230	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.54E+00	4.55E-01	4.93E-01	1.44E-01	pCi/g	1/30/2014	1.0148	170.02	78.3		18.6	06	TH-230	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.80E+00	4.94E-01	5.41E-01	1.37E-01	pCi/g	1/30/2014	1.0029	170.02	96.3		18.3	07	TH-230	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.36E+00	4.08E-01	4.42E-01	1.07E-01	pCi/g	1/30/2014	1.0271	170.02	71.3		14.3	08	TH-230	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.16E+02	1.90E+01	2.38E+01	8.71E-02	pCi/g	1/30/2014	1.0001	170	8360		16.8	09	TH-230	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.86E+00	4.83E-01	5.35E-01	1.12E-01	pCi/g	1/30/2014	1.0097	170	110		17.7	10	TH-230	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.77E+00	4.67E-01	5.15E-01	8.95E-02	pCi/g	1/30/2014	1.0216	170	103		18.8	11	TH-230	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.86E+00	5.26E-01	5.74E-01	1.35E-01	pCi/g	1/30/2014	1.0002	170	90.8		13.9	12	TH-230	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.67E+00	4.16E-01	4.65E-01	6.14E-02	pCi/g	1/30/2014	1.0074	170	114		17.5	13	TH-230	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.41E+00	3.73E-01	4.12E-01	9.01E-02	pCi/g	1/30/2014	0.9995	170	94		16.4	14	TH-230	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.27E+00	3.16E-01	3.53E-01	6.56E-02	pCi/g	1/30/2014	0.9993	170	101		17.3	15	TH-230	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.72E+00	4.46E-01	4.94E-01	7.78E-02	pCi/g	1/30/2014	1.0097	170	106		15.9	16	TH-230	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	2.76E+00	6.10E-01	6.99E-01	7.04E-02	pCi/g	1/30/2014	1.001	170	188		18.5	17	TH-230	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	1.52E+00	3.85E-01	4.28E-01	6.87E-02	pCi/g	1/30/2014	1.0197	170	106		18.2	18	TH-230	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	3.41E+00	7.41E-01	8.52E-01	6.56E-02	pCi/g	1/30/2014	0.9978	170	217		16.9	19	TH-230	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-230	EML Th-01 Modified	7.91E-01	2.38E-01	2.57E-01	5.52E-02	pCi/g	1/30/2014	1.0128	170	59.8		18.7	20	TH-230	

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Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

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Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-01	LCS	KNOWN	01/23/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	4.72E+00	1.70E-01			pCi/g	1/30/2014	1	170.02	348		17.4	01	TH-232	4.72E+00
14-01113-01	LCS	SPIKE	01/23/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	5.01E+00	8.16E-01	9.27E-01	6.01E-02	pCi/g	1/30/2014	1	170.02	348		17.4	01	TH-232	4.72E+00
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	5.67E-02	5.90E-02	5.92E-02	6.18E-02	pCi/g	1/30/2014	1	170.02	3.83		18.5	02	TH-232	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	8.37E-01	2.67E-01	2.77E-01	1.05E-01	pCi/g	1/30/2014	1.0122	170.02	54.6		19.2	03	TH-232	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.10E+00	3.21E-01	3.35E-01	9.37E-02	pCi/g	1/30/2014	1.0241	170.02	70.1		20.1	04	TH-232	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.46E+00	3.73E-01	3.94E-01	6.03E-02	pCi/g	1/30/2014	0.999	170.02	101		19.3	05	TH-232	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	8.89E-01	3.12E-01	3.22E-01	1.11E-01	pCi/g	1/30/2014	1.0148	170.02	45.3		18.6	06	TH-232	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.26E+00	3.82E-01	3.97E-01	9.77E-02	pCi/g	1/30/2014	1.0029	170.02	67.5		18.3	07	TH-232	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.33E+00	4.01E-01	4.17E-01	7.94E-02	pCi/g	1/30/2014	1.0271	170.02	69.8		14.3	08	TH-232	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.84E+00	4.34E-01	4.64E-01	1.01E-01	pCi/g	1/30/2014	1.0001	170	133		16.8	09	TH-232	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.30E+00	3.72E-01	3.89E-01	8.09E-02	pCi/g	1/30/2014	1.0097	170	76.7		17.7	10	TH-232	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.37E+00	3.89E-01	4.08E-01	8.14E-02	pCi/g	1/30/2014	1.0216	170	80.7		18.8	11	TH-232	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.62E+00	4.76E-01	4.96E-01	1.15E-01	pCi/g	1/30/2014	1.0002	170	79.3		13.9	12	TH-232	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.23E+00	3.35E-01	3.52E-01	6.12E-02	pCi/g	1/30/2014	1.0074	170	83.8		17.5	13	TH-232	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.50E+00	3.87E-01	4.09E-01	6.26E-02	pCi/g	1/30/2014	0.9995	170	99.8		16.4	14	TH-232	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	9.41E-01	2.59E-01	2.72E-01	6.54E-02	pCi/g	1/30/2014	0.9993	170	75.5		17.3	15	TH-232	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	8.74E-01	2.80E-01	2.90E-01	6.78E-02	pCi/g	1/30/2014	1.0097	170	53.8		15.9	16	TH-232	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.05E+00	3.01E-01	3.15E-01	8.29E-02	pCi/g	1/30/2014	1.001	170	71.3		18.5	17	TH-232	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.36E+00	3.56E-01	3.75E-01	5.99E-02	pCi/g	1/30/2014	1.0197	170	94.8		18.2	18	TH-232	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	1.20E+00	3.40E-01	3.56E-01	7.50E-02	pCi/g	1/30/2014	0.9978	170	76.7		16.9	19	TH-232	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/4/2014	14-01113	Thorium-232	EML Th-01 Modified	8.05E-01	2.41E-01	2.51E-01	7.91E-02	pCi/g	1/30/2014	1.0128	170	61		18.7	20	TH-232	

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Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-01	LCS	KNOWN	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	7.99E+00	2.88E-01			pCi/g	1/30/2014	1	170	525		16.9	01	U-234	7.99E+00
14-01113-01	LCS	SPIKE	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	6.81E+00	9.39E-01	1.06E+00	5.41E-02	pCi/g	1/30/2014	1	170	525		16.9	01	U-234	7.99E+00
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	8.66E-02	6.35E-02	6.38E-02	5.40E-02	pCi/g	1/30/2014	1	170	7.66		17.8	02	U-234	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	6.67E-01	1.91E-01	1.97E-01	6.80E-02	pCi/g	1/30/2014	1.0541	170.02	55.3		17.4	03	U-234	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	1.08E+00	2.38E-01	2.50E-01	8.23E-02	pCi/g	1/30/2014	1.0564	170.02	102		18.5	04	U-234	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	9.45E-01	2.24E-01	2.34E-01	8.31E-02	pCi/g	1/30/2014	1.0038	170	86.1		19.2	05	U-234	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	1.07E+00	2.54E-01	2.65E-01	5.20E-02	pCi/g	1/30/2014	1.0094	170.02	85.8		20.1	06	U-234	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	8.64E-01	2.15E-01	2.24E-01	4.82E-02	pCi/g	1/30/2014	1.0003	170	74.8		19.3	07	U-234	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	7.27E-01	1.88E-01	1.95E-01	7.44E-02	pCi/g	1/30/2014	1.0202	170	69.5		18.6	08	U-234	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	9.80E-01	2.51E-01	2.60E-01	1.00E-01	pCi/g	1/30/2014	1.0045	170.02	74.1		18.3	09	U-234	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	6.92E-01	2.12E-01	2.18E-01	8.08E-02	pCi/g	1/30/2014	1.0054	170.02	48.3		14.3	10	U-234	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	9.00E-01	2.26E-01	2.35E-01	8.16E-02	pCi/g	1/30/2014	1.003	170	75.6		16.8	11	U-234	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	8.51E-01	2.20E-01	2.29E-01	7.67E-02	pCi/g	1/30/2014	0.9966	170	70		17.7	12	U-234	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	1.11E+00	2.48E-01	2.60E-01	4.64E-02	pCi/g	1/30/2014	1.1006	170	99.8		18.8	13	U-234	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	5.84E-01	2.01E-01	2.06E-01	1.12E-01	pCi/g	1/30/2014	1.0019	170	38.3		13.9	14	U-234	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	5.35E-01	1.79E-01	1.83E-01	5.75E-02	pCi/g	1/30/2014	1.009	170	38.8		16.9	15	U-234	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	6.70E-01	2.01E-01	2.07E-01	6.45E-02	pCi/g	1/30/2014	1.0058	170	49.7		17.8	16	U-234	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	7.48E-01	1.97E-01	2.04E-01	6.36E-02	pCi/g	1/30/2014	1.0037	170.02	66.3		17.4	17	U-234	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	1.03E+00	2.65E-01	2.76E-01	1.09E-01	pCi/g	1/30/2014	1.0034	170.02	74		18.5	18	U-234	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	9.51E-01	2.49E-01	2.59E-01	1.03E-01	pCi/g	1/30/2014	0.9979	170.02	70.1		19.2	19	U-234	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-234	EML U-02 Modified	7.17E-01	2.08E-01	2.14E-01	5.56E-02	pCi/g	1/30/2014	1.0068	170.02	53.8		20.1	20	U-234	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-01113 REVISED**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-01	LCS	SPIKE	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	6.88E-01	2.21E-01	2.26E-01	9.60E-02	pCi/g	1/30/2014	1	170	43		16.9	01	U-235	
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	5.58E-02	6.14E-02	6.15E-02	8.36E-02	pCi/g	1/30/2014	1	170	4		17.8	02	U-235	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	7.19E-02	6.58E-02	6.60E-02	6.21E-02	pCi/g	1/30/2014	1.0541	170.02	4.83		17.4	03	U-235	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	1.17E-01	8.23E-02	8.27E-02	8.21E-02	pCi/g	1/30/2014	1.0564	170.02	8.98		18.5	04	U-235	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	7.66E-02	6.58E-02	6.60E-02	6.47E-02	pCi/g	1/30/2014	1.0038	170	5.66		19.2	05	U-235	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	1.02E-01	8.07E-02	8.10E-02	7.34E-02	pCi/g	1/30/2014	1.0094	170.02	6.66		20.1	06	U-235	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	7.12E-02	6.88E-02	6.90E-02	8.54E-02	pCi/g	1/30/2014	1.0003	170	5		19.3	07	U-235	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	1.70E-02	3.69E-02	3.69E-02	7.29E-02	pCi/g	1/30/2014	1.0202	170	1.32		18.6	08	U-235	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	5.93E-02	7.34E-02	7.35E-02	1.12E-01	pCi/g	1/30/2014	1.0045	170.02	3.64		18.3	09	U-235	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	5.30E-02	6.96E-02	6.97E-02	1.06E-01	pCi/g	1/30/2014	1.0054	170.02	3		14.3	10	U-235	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	1.39E-01	9.25E-02	9.30E-02	7.70E-02	pCi/g	1/30/2014	1.003	170	9.49		16.8	11	U-235	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	1.60E-01	9.93E-02	9.99E-02	7.18E-02	pCi/g	1/30/2014	0.9966	170	10.7		17.7	12	U-235	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	4.55E-02	5.48E-02	5.48E-02	7.74E-02	pCi/g	1/30/2014	1.1006	170	3.32		18.8	13	U-235	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	1.06E-01	9.15E-02	9.18E-02	8.99E-02	pCi/g	1/30/2014	1.0019	170	5.66		13.9	14	U-235	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	5.10E-02	6.69E-02	6.70E-02	1.02E-01	pCi/g	1/30/2014	1.009	170	3		16.9	15	U-235	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	9.98E-02	8.70E-02	8.73E-02	9.97E-02	pCi/g	1/30/2014	1.0058	170	6		17.8	16	U-235	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	9.50E-02	7.30E-02	7.33E-02	5.81E-02	pCi/g	1/30/2014	1.0037	170.02	6.83		17.4	17	U-235	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	3.41E-02	6.02E-02	6.03E-02	1.08E-01	pCi/g	1/30/2014	1.0034	170.02	1.98		18.5	18	U-235	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	1.78E-01	1.11E-01	1.12E-01	8.00E-02	pCi/g	1/30/2014	0.9979	170.02	10.7		19.2	19	U-235	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-235	EML U-02 Modified	4.37E-02	5.66E-02	5.66E-02	7.86E-02	pCi/g	1/30/2014	1.0068	170.02	2.66		20.1	20	U-235	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-01113 REVISED
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-01113-01	LCS	KNOWN	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	7.79E+00	2.80E-01			pCi/g	1/30/2014	1	170	559		16.9	01	U-238	7.79E+00
14-01113-01	LCS	SPIKE	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	7.22E+00	9.84E-01	1.11E+00	7.75E-02	pCi/g	1/30/2014	1	170	559		16.9	01	U-238	7.79E+00
14-01113-02	MBL	BLANK	01/23/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	2.06E-02	3.15E-02	3.15E-02	4.70E-02	pCi/g	1/30/2014	1	170	1.83		17.8	02	U-238	
14-01113-03	DUP	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	7.43E-01	2.02E-01	2.09E-01	5.01E-02	pCi/g	1/30/2014	1.0541	170.02	61.8		17.4	03	U-238	
14-01113-04	DO	FEEBRIS 14-4.005-006	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	7.29E-01	1.88E-01	1.95E-01	5.93E-02	pCi/g	1/30/2014	1.0564	170.02	69.3		18.5	04	U-238	
14-01113-05	TRG	FEEBRIS 14-4.028-029	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	1.23E+00	2.61E-01	2.75E-01	7.20E-02	pCi/g	1/30/2014	1.0038	170	113		19.2	05	U-238	
14-01113-06	TRG	FEEBRIS 14-7.013-014	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	1.01E+00	2.45E-01	2.56E-01	5.93E-02	pCi/g	1/30/2014	1.0094	170.02	81.7		20.1	06	U-238	
14-01113-07	TRG	FEEBRIS 14-7.039-040	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	8.28E-01	2.11E-01	2.19E-01	6.89E-02	pCi/g	1/30/2014	1.0003	170	72		19.3	07	U-238	
14-01113-08	TRG	FEEBRIS 15-2.043-044	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	8.17E-01	1.99E-01	2.08E-01	5.88E-02	pCi/g	1/30/2014	1.0202	170	78.3		18.6	08	U-238	
14-01113-09	TRG	FEEBRIS 15-2.024-025	01/20/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	9.30E-01	2.40E-01	2.49E-01	6.29E-02	pCi/g	1/30/2014	1.0045	170.02	70.7		18.3	09	U-238	
14-01113-10	TRG	FEEBRIS 16-3.006-007	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	7.51E-01	2.21E-01	2.27E-01	6.82E-02	pCi/g	1/30/2014	1.0054	170.02	52.7		14.3	10	U-238	
14-01113-11	TRG	FEEBRIS 16-3.011-012	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	1.05E+00	2.47E-01	2.58E-01	7.46E-02	pCi/g	1/30/2014	1.003	170	89		16.8	11	U-238	
14-01113-12	TRG	FEEBRIS 16-3.011-012D	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	9.79E-01	2.37E-01	2.48E-01	5.06E-02	pCi/g	1/30/2014	0.9966	170	80.8		17.7	12	U-238	
14-01113-13	TRG	FEEBRIS 16-6.006-007	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	1.02E+00	2.36E-01	2.47E-01	6.24E-02	pCi/g	1/30/2014	1.1006	170	92.3		18.8	13	U-238	
14-01113-14	TRG	FEEBRIS 16-6.021-022	01/19/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	5.91E-01	2.06E-01	2.10E-01	1.36E-01	pCi/g	1/30/2014	1.0019	170	38.9		13.9	14	U-238	
14-01113-15	TRG	FEEBRIS 12-5.002-003	01/18/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	6.04E-01	1.93E-01	1.97E-01	8.22E-02	pCi/g	1/30/2014	1.009	170	44		16.9	15	U-238	
14-01113-16	TRG	FEEBRIS 12-5.012-013	01/18/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	7.63E-01	2.16E-01	2.23E-01	5.60E-02	pCi/g	1/30/2014	1.0058	170	56.8		17.8	16	U-238	
14-01113-17	TRG	FEEBRIS 14-2.019-020	01/17/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	7.96E-01	2.03E-01	2.11E-01	4.69E-02	pCi/g	1/30/2014	1.0037	170.02	70.8		17.4	17	U-238	
14-01113-18	TRG	FEEBRIS 14-2.029-031	01/17/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	1.02E+00	2.61E-01	2.71E-01	7.84E-02	pCi/g	1/30/2014	1.0034	170.02	73.3		18.5	18	U-238	
14-01113-19	TRG	FEEBRIS 13-3.019-020	01/15/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	9.16E-01	2.42E-01	2.51E-01	8.90E-02	pCi/g	1/30/2014	0.9979	170.02	67.8		19.2	19	U-238	
14-01113-20	TRG	FEEBRIS 13-3.029-030	01/15/14 00:00	1/23/2014	2/3/2014	14-01113	Uranium-238	EML U-02 Modified	8.85E-01	2.34E-01	2.43E-01	6.35E-02	pCi/g	1/30/2014	1.0068	170.02	66.7		20.1	20	U-238	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-02048**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-02048-01	LCS	KNOWN	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	2/14/2014	1	30				01	CO-60	1.30E+02
14-02048-01	LCS	KNOWN	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	2/14/2014	1	30				01	CS-137	8.30E+01
14-02048-01	LCS	SPIKE	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Cobalt-60	LANL ER-130 Modified	1.35E+02	8.82E+00	1.12E+01	6.36E-01	pCi/g	2/14/2014	1	30				01	CO-60	1.30E+02
14-02048-01	LCS	SPIKE	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Cesium-137	LANL ER-130 Modified	8.83E+01	7.87E+00	9.08E+00	8.05E-01	pCi/g	2/14/2014	1	30				01	CS-137	8.30E+01
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	6.31E-02	9.80E-02	9.81E-02	1.81E-01	pCi/g	2/14/2014	1	120				02	AC-228	
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	-1.18E-02	5.81E-02	5.81E-02	9.07E-02	pCi/g	2/14/2014	1	120				02	BI-214	
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	2.60E-01	2.35E-01	2.36E-01	5.21E-01	pCi/g	2/14/2014	1	120				02	K-40	
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	-8.89E-01	1.06E+00	1.06E+00	1.30E+00	pCi/g	2/14/2014	1	120				02	PA-231	
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	2.41E-01	3.60E-01	3.60E-01	5.57E-01	pCi/g	2/14/2014	1	120				02	PB-210	
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	4.18E-02	6.16E-02	6.16E-02	9.31E-02	pCi/g	2/14/2014	1	120				02	PB-214	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	7.62E-01	2.35E-01	2.38E-01	3.90E-01	pCi/g	2/14/2014	459.35	60				03	AC-228	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	1.16E+00	2.19E-01	2.27E-01	3.24E-01	pCi/g	2/14/2014	459.35	60				03	BI-214	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	9.01E+00	1.54E+00	1.61E+00	5.96E-01	pCi/g	2/14/2014	459.35	60				03	K-40	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	2.26E+00	1.67E+00	1.67E+00	2.81E+00	pCi/g	2/14/2014	459.35	60				03	PA-231	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	9.39E-01	1.20E+00	1.20E+00	2.00E+00	pCi/g	2/14/2014	459.35	60				03	PB-210	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.05E+00	1.64E-01	1.72E-01	2.55E-01	pCi/g	2/14/2014	459.35	60				03	PB-214	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	8.77E-01	1.88E-01	1.93E-01	6.37E-01	pCi/g	2/14/2014	459.35	60				04	AC-228	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	1.27E+00	1.95E-01	2.06E-01	4.68E-01	pCi/g	2/14/2014	459.35	60				04	BI-214	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	8.35E+00	1.52E+00	1.58E+00	9.76E-01	pCi/g	2/14/2014	459.35	60				04	K-40	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	5.28E-01	7.04E-01	7.04E-01	2.95E+00	pCi/g	2/14/2014	459.35	60				04	PA-231	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	1.71E+00	1.19E+00	1.19E+00	2.03E+00	pCi/g	2/14/2014	459.35	60				04	PB-210	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.10E+00	1.60E-01	1.69E-01	2.14E-01	pCi/g	2/14/2014	459.35	60				04	PB-214	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.59E+00	2.57E-01	2.70E-01	4.38E-01	pCi/g	2/14/2014	511.76	60				05	AC-228	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	1.49E+00	2.05E-01	2.19E-01	2.01E-01	pCi/g	2/14/2014	511.76	60				05	BI-214	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	2.11E+01	2.47E+00	2.70E+00	8.79E-01	pCi/g	2/14/2014	511.76	60				05	K-40	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	2.50E-02	1.42E+00	1.42E+00	2.30E+00	pCi/g	2/14/2014	511.76	60				05	PA-231	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	1.64E+00	1.19E+00	1.19E+00	1.95E+00	pCi/g	2/14/2014	511.76	60				05	PB-210	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.55E+00	1.86E-01	2.03E-01	2.14E-01	pCi/g	2/14/2014	511.76	60				05	PB-214	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-02048**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.39E+00	2.18E-01	2.29E-01	3.68E-01	pCi/g	2/14/2014	554.25	60				06	AC-228	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	1.35E+00	1.75E-01	1.88E-01	1.94E-01	pCi/g	2/14/2014	554.25	60				06	BI-214	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.57E+01	1.98E+00	2.13E+00	7.73E-01	pCi/g	2/14/2014	554.25	60				06	K-40	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	3.19E-02	1.50E+00	1.50E+00	2.38E+00	pCi/g	2/14/2014	554.25	60				06	PA-231	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	1.67E+00	1.13E+00	1.13E+00	1.55E+00	pCi/g	2/14/2014	554.25	60				06	PB-210	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.44E+00	1.63E-01	1.79E-01	2.33E-01	pCi/g	2/14/2014	554.25	60				06	PB-214	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	5.15E-01	1.12E-01	1.15E-01	2.17E-01	pCi/g	2/14/2014	712.85	60				07	AC-228	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	4.03E-01	8.48E-02	8.72E-02	4.03E-02	pCi/g	2/14/2014	712.85	60				07	BI-214	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.63E+01	1.85E+00	2.03E+00	5.74E-01	pCi/g	2/14/2014	712.85	60				07	K-40	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	3.37E-01	8.32E-01	8.32E-01	1.42E+00	pCi/g	2/14/2014	712.85	60				07	PA-231	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	5.21E-01	5.63E-01	5.64E-01	9.38E-01	pCi/g	2/14/2014	712.85	60				07	PB-210	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	4.92E-01	9.14E-02	9.48E-02	1.42E-01	pCi/g	2/14/2014	712.85	60				07	PB-214	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.98E+01	6.33E+00	6.41E+00	1.08E+01	pCi/g	2/14/2014	107.4	60				08	AC-228	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	1.49E+03	9.45E+01	1.21E+02	1.02E+01	pCi/g	2/14/2014	107.4	60				08	BI-214	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.86E+01	2.05E+01	2.05E+01	2.77E+01	pCi/g	2/14/2014	107.4	60				08	K-40	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	1.68E+03	1.65E+02	1.86E+02	1.67E+02	pCi/g	2/14/2014	107.4	60				08	PA-231	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	-2.63E+02	4.97E+01	5.15E+01	6.53E+01	pCi/g	2/14/2014	107.4	60				08	PB-210	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.78E+03	1.13E+02	1.46E+02	1.06E+01	pCi/g	2/14/2014	107.4	60				08	PB-214	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Thorium-234	LANL ER-130 Modified	1.17E+03	1.07E+02	1.23E+02	1.22E+02	pCi/g	2/14/2014	107.4	60				08	TH-234	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Uranium-235	LANL ER-130 Modified	1.75E+02	3.68E+01	3.79E+01	2.52E+01	pCi/g	2/14/2014	107.4	60				08	U-235	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.19E+00	2.75E-01	2.82E-01	6.28E-01	pCi/g	2/14/2014	595.93	60				09	AC-228	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	5.60E+00	4.73E-01	5.54E-01	2.50E-01	pCi/g	2/14/2014	595.93	60				09	BI-214	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.59E+01	2.04E+00	2.19E+00	1.21E+00	pCi/g	2/14/2014	595.93	60				09	K-40	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	-1.47E-01	2.41E+00	2.41E+00	3.76E+00	pCi/g	2/14/2014	595.93	60				09	PA-231	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	5.52E+00	1.89E+00	1.91E+00	2.98E+00	pCi/g	2/14/2014	595.93	60				09	PB-210	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	7.03E+00	4.91E-01	6.09E-01	3.49E-01	pCi/g	2/14/2014	595.93	60				09	PB-214	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG: **14-02048**
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	3.60E-01	2.10E-01	2.11E-01	4.38E-01	pCi/g	2/14/2014	625.66	120				10	AC-228	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	4.41E-01	1.18E-01	1.20E-01	1.84E-01	pCi/g	2/14/2014	625.66	120				10	BI-214	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.17E+01	1.80E+00	1.90E+00	1.27E+00	pCi/g	2/14/2014	625.66	120				10	K-40	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	1.35E+00	1.50E+00	1.50E+00	2.34E+00	pCi/g	2/14/2014	625.66	120				10	PA-231	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	6.36E-01	6.51E-01	6.52E-01	9.90E-01	pCi/g	2/14/2014	625.66	120				10	PB-210	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	2.89E-01	1.05E-01	1.06E-01	1.95E-01	pCi/g	2/14/2014	625.66	120				10	PB-214	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.96E+00	4.18E-01	4.30E-01	8.96E-01	pCi/g	2/14/2014	516.5	60				11	AC-228	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	3.26E+01	1.78E+00	2.44E+00	9.27E-01	pCi/g	2/14/2014	516.5	60				11	BI-214	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.47E+01	3.74E+00	3.81E+00	5.55E+00	pCi/g	2/14/2014	516.5	60				11	K-40	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	3.13E+01	5.18E+00	5.42E+00	1.58E+01	pCi/g	2/14/2014	516.5	60				11	PA-231	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	2.53E+01	3.95E+00	4.15E+00	5.64E+00	pCi/g	2/14/2014	516.5	60				11	PB-210	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	3.58E+01	2.30E+00	2.94E+00	6.90E-01	pCi/g	2/14/2014	516.5	60				11	PB-214	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.14E+00	1.86E-01	1.95E-01	2.21E-01	pCi/g	2/14/2014	618.69	60				12	AC-228	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	9.93E-01	1.47E-01	1.56E-01	2.03E-01	pCi/g	2/14/2014	618.69	60				12	BI-214	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.76E+01	2.13E+00	2.31E+00	9.14E-01	pCi/g	2/14/2014	618.69	60				12	K-40	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	-1.81E-01	6.30E-01	6.30E-01	1.98E+00	pCi/g	2/14/2014	618.69	60				12	PA-231	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	1.09E+00	1.05E+00	1.06E+00	1.41E+00	pCi/g	2/14/2014	618.69	60				12	PB-210	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.04E+00	1.29E-01	1.39E-01	1.71E-01	pCi/g	2/14/2014	618.69	60				12	PB-214	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.44E+00	2.71E-01	2.81E-01	5.56E-01	pCi/g	2/14/2014	564.56	60				13	AC-228	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	1.17E+00	2.06E-01	2.15E-01	2.26E-01	pCi/g	2/14/2014	564.56	60				13	BI-214	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	2.10E+01	2.87E+00	3.07E+00	1.87E+00	pCi/g	2/14/2014	564.56	60				13	K-40	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	-4.86E-01	9.88E-01	9.88E-01	2.90E+00	pCi/g	2/14/2014	564.56	60				13	PA-231	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	2.64E+00	1.67E+00	1.68E+00	2.72E+00	pCi/g	2/14/2014	564.56	60				13	PB-210	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.47E+00	1.77E-01	1.92E-01	2.55E-01	pCi/g	2/14/2014	564.56	60				13	PB-214	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.13E+00	1.95E-01	2.03E-01	3.43E-01	pCi/g	2/14/2014	488.02	60				14	AC-228	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	1.36E+00	1.90E-01	2.02E-01	2.06E-01	pCi/g	2/14/2014	488.02	60				14	BI-214	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.83E+01	2.26E+00	2.45E+00	1.08E+00	pCi/g	2/14/2014	488.02	60				14	K-40	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	3.05E-01	6.94E-01	6.94E-01	2.27E+00	pCi/g	2/14/2014	488.02	60				14	PA-231	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	1.27E+00	1.27E+00	1.27E+00	2.11E+00	pCi/g	2/14/2014	488.02	60				14	PB-210	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	1.57E+00	1.76E-01	1.94E-01	2.18E-01	pCi/g	2/14/2014	488.02	60				14	PB-214	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-02048**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	1.28E+00	3.63E-01	3.69E-01	7.13E-01	pCi/g	2/14/2014	567.07	60				15	AC-228	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	4.98E+00	4.00E-01	4.75E-01	2.54E-01	pCi/g	2/14/2014	567.07	60				15	BI-214	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	1.69E+01	2.20E+00	2.37E+00	1.45E+00	pCi/g	2/14/2014	567.07	60				15	K-40	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	-1.93E-01	2.04E+00	2.04E+00	3.21E+00	pCi/g	2/14/2014	567.07	60				15	PA-231	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	3.14E+00	1.28E+00	1.29E+00	2.02E+00	pCi/g	2/14/2014	567.07	60				15	PB-210	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	5.35E+00	3.99E-01	4.85E-01	3.32E-01	pCi/g	2/14/2014	567.07	60				15	PB-214	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Actinium-228	LANL ER-130 Modified	3.55E-01	2.01E-01	2.02E-01	4.99E-01	pCi/g	2/14/2014	416.01	60				16	AC-228	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Bismuth-214	LANL ER-130 Modified	6.12E-01	1.59E-01	1.62E-01	2.44E-01	pCi/g	2/14/2014	416.01	60				16	BI-214	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Potassium-40	LANL ER-130 Modified	5.91E+00	1.22E+00	1.26E+00	5.59E-01	pCi/g	2/14/2014	416.01	60				16	K-40	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Protactinium-231	LANL ER-130 Modified	3.13E-01	1.67E+00	1.67E+00	2.55E+00	pCi/g	2/14/2014	416.01	60				16	PA-231	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-210	LANL ER-130 Modified	1.38E+00	1.45E+00	1.45E+00	2.41E+00	pCi/g	2/14/2014	416.01	60				16	PB-210	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	3/17/2014	14-02048	Lead-214	LANL ER-130 Modified	7.97E-01	1.52E-01	1.58E-01	2.08E-01	pCi/g	2/14/2014	416.01	60				16	PB-214	
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	-1.24E-02	3.05E-02	3.06E-02	8.70E-02	pCi/g	2/21/2014	1	170.02	-0.85		18.5	02	TH-227	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	6.55E-01	6.99E-01	7.04E-01	9.68E-01	pCi/g	2/21/2014	0.10029	170	4.64		19.2	03	TH-227	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	1.33E-01	3.93E-01	3.93E-01	8.55E-01	pCi/g	2/21/2014	0.10029	170	0.98		20.1	04	TH-227	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	-3.83E-03	4.06E-01	4.06E-01	1.21E+00	pCi/g	2/21/2014	0.10079	170	-0.02		19.3	05	TH-227	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	2.52E-01	3.87E-01	3.89E-01	6.55E-01	pCi/g	2/21/2014	0.15027	170	2.64		18.6	06	TH-227	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	5.31E-01	8.13E-01	8.15E-01	1.39E+00	pCi/g	2/21/2014	0.10027	170.02	3.28		18.3	07	TH-227	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	2.91E+02	1.01E+02	1.08E+02	1.82E+01	pCi/g	2/21/2014	0.010007	77.13	73.7		14.3	08	TH-227	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	3.84E+00	1.76E+00	1.82E+00	1.11E+00	pCi/g	2/21/2014	0.10008	170	22.8		16.8	09	TH-227	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	2.23E-01	3.67E-01	3.68E-01	6.41E-01	pCi/g	2/21/2014	0.2003	170	2.47		17.7	10	TH-227	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	2.07E+01	1.03E+01	1.06E+01	4.81E+00	pCi/g	2/21/2014	0.05034	78.9	23.4		18.8	11	TH-227	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	7.03E-01	7.70E-01	7.75E-01	9.19E-01	pCi/g	2/21/2014	0.10016	170	3.66		13.9	12	TH-227	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	1.24E-01	2.70E-01	2.70E-01	5.32E-01	pCi/g	2/21/2014	0.20024	170	1.32		17.5	13	TH-227	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	1.20E-01	3.66E-01	3.66E-01	8.67E-01	pCi/g	2/21/2014	0.1004	170	0.66		17.9	14	TH-227	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	3.56E+00	1.91E+00	1.96E+00	8.16E-01	pCi/g	2/21/2014	0.20124	81.47	17.8		17	15	TH-227	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Actinium-227	EML Th-01 Modified	3.14E-01	4.82E-01	4.84E-01	7.16E-01	pCi/g	2/21/2014	0.10025	170	1.83		15.9	16	TH-227	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-02048
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-02048-01	LCS	KNOWN	02/11/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	5.46E+00	1.47E-01			pCi/g	2/21/2014	1	170	330		17.4	01	TH-230	5.46E+00
14-02048-01	LCS	SPIKE	02/11/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	5.99E+00	1.05E+00	1.29E+00	1.25E-01	pCi/g	2/21/2014	1	170	330		17.4	01	TH-230	5.46E+00
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	1.27E-01	9.61E-02	9.74E-02	1.11E-01	pCi/g	2/21/2014	1	170.02	8.96		18.5	02	TH-230	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	2.27E+00	1.21E+00	1.24E+00	9.78E-01	pCi/g	2/21/2014	0.10029	170	16.5		19.2	03	TH-230	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	1.65E+00	9.76E-01	9.97E-01	6.94E-01	pCi/g	2/21/2014	0.10029	170	12.5		20.1	04	TH-230	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	1.09E+00	9.21E-01	9.31E-01	7.79E-01	pCi/g	2/21/2014	0.10079	170	5.83		19.3	05	TH-230	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	2.14E+00	9.65E-01	1.00E+00	5.86E-01	pCi/g	2/21/2014	0.15027	170	23		18.6	06	TH-230	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	2.39E+00	1.35E+00	1.39E+00	1.20E+00	pCi/g	2/21/2014	0.10027	170.02	15.1		18.3	07	TH-230	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	2.58E+04	6.83E+03	7.54E+03	1.77E+01	pCi/g	2/21/2014	0.010007	77.13	6720		14.3	08	TH-230	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	4.44E+02	8.09E+01	9.77E+01	1.12E+00	pCi/g	2/21/2014	0.10008	170	2710		16.8	09	TH-230	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	2.11E+00	9.47E-01	9.82E-01	5.54E-01	pCi/g	2/21/2014	0.2003	170	24		17.7	10	TH-230	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	1.81E+03	5.12E+02	5.59E+02	4.54E+00	pCi/g	2/21/2014	0.05034	78.9	2100		18.8	11	TH-230	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	2.12E+00	1.34E+00	1.36E+00	1.06E+00	pCi/g	2/21/2014	0.10016	170	11.3		13.9	12	TH-230	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	1.47E+00	7.92E-01	8.13E-01	5.51E-01	pCi/g	2/21/2014	0.20024	170	16		17.5	13	TH-230	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	3.50E+00	1.68E+00	1.73E+00	7.37E-01	pCi/g	2/21/2014	0.1004	170	19.8		17.9	14	TH-230	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	4.17E+02	1.12E+02	1.23E+02	7.95E-01	pCi/g	2/21/2014	0.20124	81.47	2140		17	15	TH-230	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-230	EML Th-01 Modified	2.50E+00	1.39E+00	1.43E+00	1.05E+00	pCi/g	2/21/2014	0.10025	170	15		15.9	16	TH-230	
14-02048-01	LCS	KNOWN	02/11/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	4.83E+00	1.74E-01			pCi/g	2/21/2014	1	170	296		17.4	01	TH-232	4.83E+00
14-02048-01	LCS	SPIKE	02/11/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	5.37E+00	9.65E-01	1.07E+00	1.09E-01	pCi/g	2/21/2014	1	170	296		17.4	01	TH-232	4.83E+00
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	6.36E-02	6.35E-02	6.38E-02	7.43E-02	pCi/g	2/21/2014	1	170.02	4.49		18.5	02	TH-232	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	1.14E+00	8.34E-01	8.40E-01	7.74E-01	pCi/g	2/21/2014	0.10029	170	8.32		19.2	03	TH-232	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	1.19E+00	8.41E-01	8.47E-01	7.92E-01	pCi/g	2/21/2014	0.10029	170	9		20.1	04	TH-232	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	8.04E-01	8.39E-01	8.42E-01	1.05E+00	pCi/g	2/21/2014	0.10079	170	4.32		19.3	05	TH-232	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	1.22E+00	7.14E-01	7.22E-01	5.56E-01	pCi/g	2/21/2014	0.15027	170	13.1		18.6	06	TH-232	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	6.00E-01	7.12E-01	7.14E-01	1.04E+00	pCi/g	2/21/2014	0.10027	170.02	3.81		18.3	07	TH-232	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	2.03E+02	7.65E+01	7.86E+01	1.55E+01	pCi/g	2/21/2014	0.010007	77.13	52.8		14.3	08	TH-232	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	6.76E+00	2.41E+00	2.48E+00	9.23E-01	pCi/g	2/21/2014	0.10008	170	41.3		16.8	09	TH-232	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	5.26E-01	4.65E-01	4.67E-01	5.26E-01	pCi/g	2/21/2014	0.2003	170	6		17.7	10	TH-232	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	1.44E+01	8.06E+00	8.16E+00	4.00E+00	pCi/g	2/21/2014	0.05034	78.9	16.7		18.8	11	TH-232	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	1.24E+00	1.00E+00	1.01E+00	8.94E-01	pCi/g	2/21/2014	0.10016	170	6.66		13.9	12	TH-232	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	9.17E-01	6.21E-01	6.26E-01	5.50E-01	pCi/g	2/21/2014	0.20024	170	10		17.5	13	TH-232	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	1.70E+00	1.14E+00	1.15E+00	8.43E-01	pCi/g	2/21/2014	0.1004	170	9.66		17.9	14	TH-232	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	5.23E+00	2.42E+00	2.46E+00	7.15E-01	pCi/g	2/21/2014	0.20124	81.47	26.9		17	15	TH-232	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	2/27/2014	14-02048	Thorium-232	EML Th-01 Modified	1.10E-01	3.37E-01	3.37E-01	7.98E-01	pCi/g	2/21/2014	0.10025	170	0.66		15.9	16	TH-232	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-02048
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-02048-01	LCS	KNOWN	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	8.04E+00	2.90E-01			pCi/g	2/21/2014	1	170	675		18.3	01	U-234	8.04E+00
14-02048-01	LCS	SPIKE	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	7.42E+00	9.38E-01	1.08E+00	7.25E-02	pCi/g	2/21/2014	1	170	675		18.3	01	U-234	8.04E+00
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	4.90E-02	5.89E-02	5.90E-02	8.32E-02	pCi/g	2/21/2014	1	170.02	3.32		14.3	02	U-234	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.09E+00	8.20E-01	8.24E-01	8.61E-01	pCi/g	2/21/2014	0.10029	170	7.98		16.8	03	U-234	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.70E+00	9.43E-01	9.51E-01	6.60E-01	pCi/g	2/21/2014	0.10029	170.02	13.5		17.7	04	U-234	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	8.61E-01	6.63E-01	6.66E-01	6.64E-01	pCi/g	2/21/2014	0.10079	170.02	7.32		18.8	05	U-234	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.10E+00	7.76E-01	7.80E-01	7.69E-01	pCi/g	2/21/2014	0.15027	170	8.98		13.9	06	U-234	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.13E+00	8.15E-01	8.19E-01	6.05E-01	pCi/g	2/21/2014	0.10027	170	7.83		17.5	07	U-234	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	4.29E+02	6.65E+01	7.32E+01	5.59E+00	pCi/g	2/21/2014	0.010007	170	320		17.9	08	U-234	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	3.20E+00	1.26E+00	1.28E+00	6.12E-01	pCi/g	2/21/2014	0.10008	170	27.5		17	09	U-234	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	7.84E-01	4.35E-01	4.39E-01	3.05E-01	pCi/g	2/21/2014	0.2003	170	13.5		15.9	10	U-234	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.40E+01	4.01E+00	4.13E+00	1.52E+00	pCi/g	2/21/2014	0.05034	170	55.2		18.5	11	U-234	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.87E+00	1.04E+00	1.05E+00	7.29E-01	pCi/g	2/21/2014	0.10016	170	13.5		18.2	12	U-234	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.63E+00	6.36E-01	6.46E-01	3.90E-01	pCi/g	2/21/2014	0.20024	170	28.6		17.9	13	U-234	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.54E-01	9.97E-01	9.97E-01	2.72E+00	pCi/g	2/21/2014	0.1004	170	0.32		16.9	14	U-234	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	6.19E+00	2.32E+00	2.37E+00	8.54E-01	pCi/g	2/21/2014	0.20124	170	34.7		18.7	15	U-234	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-234	EML U-02 Modified	1.51E+00	8.57E-01	8.63E-01	5.68E-01	pCi/g	2/21/2014	0.10025	170	12.7		18.7	16	U-234	
14-02048-01	LCS	SPIKE	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	3.66E-01	1.46E-01	1.48E-01	8.55E-02	pCi/g	2/21/2014	1	170	27		18.3	01	U-235	
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	3.02E-02	5.13E-02	5.13E-02	8.70E-02	pCi/g	2/21/2014	1	170.02	1.66		14.3	02	U-235	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	1.94E-01	4.84E-01	4.85E-01	1.01E+00	pCi/g	2/21/2014	0.10029	170	1.15		16.8	03	U-235	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	3.60E-01	5.38E-01	5.39E-01	8.75E-01	pCi/g	2/21/2014	0.10029	170.02	2.32		17.7	04	U-235	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	4.11E-01	4.97E-01	4.98E-01	6.06E-01	pCi/g	2/21/2014	0.10079	170.02	2.83		18.8	05	U-235	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	3.75E-01	5.21E-01	5.21E-01	7.90E-01	pCi/g	2/21/2014	0.15027	170	2.49		13.9	06	U-235	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	1.79E-01	4.96E-01	4.96E-01	1.07E+00	pCi/g	2/21/2014	0.10027	170	1		17.5	07	U-235	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	2.29E+01	1.24E+01	1.25E+01	6.90E+00	pCi/g	2/21/2014	0.010007	170	13.8		17.9	08	U-235	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	4.31E-01	5.65E-01	5.66E-01	8.62E-01	pCi/g	2/21/2014	0.10008	170	3		17	09	U-235	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	-3.66E-02	1.47E-01	1.47E-01	3.76E-01	pCi/g	2/21/2014	0.2003	170	-0.51		15.9	10	U-235	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	1.77E+00	1.52E+00	1.52E+00	1.49E+00	pCi/g	2/21/2014	0.05034	170	5.66		18.5	11	U-235	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	1.42E-01	3.41E-01	3.41E-01	7.15E-01	pCi/g	2/21/2014	0.10016	170	0.83		18.2	12	U-235	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	2.33E-01	2.80E-01	2.81E-01	3.96E-01	pCi/g	2/21/2014	0.20024	170	3.32		17.9	13	U-235	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	1.09E+00	1.67E+00	1.67E+00	2.48E+00	pCi/g	2/21/2014	0.1004	170	1.83		16.9	14	U-235	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	1.25E+00	1.08E+00	1.09E+00	1.05E+00	pCi/g	2/21/2014	0.20124	170	5.66		18.7	15	U-235	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-235	EML U-02 Modified	3.65E-01	5.06E-01	5.07E-01	7.70E-01	pCi/g	2/21/2014	0.10025	170	2.49		18.7	16	U-235	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-02048
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-02048-01	LCS	KNOWN	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	7.84E+00	2.82E-01			pCi/g	2/21/2014	1	170	678		18.3	01	U-238	7.84E+00
14-02048-01	LCS	SPIKE	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	7.42E+00	9.37E-01	1.08E+00	7.51E-02	pCi/g	2/21/2014	1	170	678		18.3	01	U-238	7.84E+00
14-02048-02	MBL	BLANK	02/11/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	-2.50E-03	2.92E-02	2.92E-02	6.13E-02	pCi/g	2/21/2014	1	170.02	-0.17		14.3	02	U-238	
14-02048-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	4.98E-01	5.40E-01	5.41E-01	6.51E-01	pCi/g	2/21/2014	0.10029	170	3.66		16.8	03	U-238	
14-02048-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	1.31E+00	8.30E-01	8.35E-01	6.57E-01	pCi/g	2/21/2014	0.10029	170.02	10.5		17.7	04	U-238	
14-02048-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	8.97E-01	6.58E-01	6.62E-01	5.60E-01	pCi/g	2/21/2014	0.10079	170.02	7.66		18.8	05	U-238	
14-02048-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	8.64E-01	7.79E-01	7.82E-01	1.06E+00	pCi/g	2/21/2014	0.15027	170	7.11		13.9	06	U-238	
14-02048-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	5.52E-01	5.71E-01	5.72E-01	6.02E-01	pCi/g	2/21/2014	0.10027	170	3.83		17.5	07	U-238	
14-02048-08	TRG	FEEBRIS05-3.028-029	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	4.31E+02	6.67E+01	7.35E+01	8.00E+00	pCi/g	2/21/2014	0.010007	170	323		17.9	08	U-238	
14-02048-09	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	2.79E+00	1.17E+00	1.19E+00	6.96E-01	pCi/g	2/21/2014	0.10008	170	24		17	09	U-238	
14-02048-10	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	5.50E-01	3.65E-01	3.67E-01	3.04E-01	pCi/g	2/21/2014	0.2003	170	9.49		15.9	10	U-238	
14-02048-11	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	9.66E+00	3.26E+00	3.33E+00	1.42E+00	pCi/g	2/21/2014	0.05034	170	38.3		18.5	11	U-238	
14-02048-12	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	1.34E+00	8.73E-01	8.78E-01	6.61E-01	pCi/g	2/21/2014	0.10016	170	9.66		18.2	12	U-238	
14-02048-13	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	1.26E+00	5.75E-01	5.82E-01	4.86E-01	pCi/g	2/21/2014	0.20024	170	22.3		17.9	13	U-238	
14-02048-14	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	2.23E+00	2.16E+00	2.16E+00	2.29E+00	pCi/g	2/21/2014	0.1004	170	4.66		16.9	14	U-238	
14-02048-15	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	4.95E+00	2.03E+00	2.06E+00	7.42E-01	pCi/g	2/21/2014	0.20124	170	27.8		18.7	15	U-238	
14-02048-16	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	2/11/2014	2/28/2014	14-02048	Uranium-238	EML U-02 Modified	7.48E-01	6.24E-01	6.26E-01	6.68E-01	pCi/g	2/21/2014	0.10025	170	6.32		18.7	16	U-238	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-04046**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04046-02	MBL	BLANK	04/07/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	1.05E-01	8.29E-02	8.40E-02	9.78E-02	pCi/g	4/8/2014	1	170	8.13		18.5	02	TH-227		0.011
14-04046-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	1.49E-01	1.53E-01	1.54E-01	2.07E-01	pCi/g	4/8/2014	1.0027	170.02	5.3		19.2	03	TH-227		0.01
14-04046-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	1.35E-01	9.07E-02	9.22E-02	9.14E-02	pCi/g	4/8/2014	1.0015	170.02	10.5		20.1	04	TH-227		0.009
14-04046-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	1.82E-01	1.18E-01	1.20E-01	1.05E-01	pCi/g	4/8/2014	1.0023	170.02	11		19.3	05	TH-227		0.006
14-04046-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	1.93E-01	1.09E-01	1.12E-01	9.46E-02	pCi/g	4/8/2014	1.0085	170.02	14.5		18.6	06	TH-227		0.009
14-04046-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	-1.97E-03	1.20E-01	1.20E-01	2.93E-01	pCi/g	4/8/2014	1.0006	170	-0.06		18.3	07	TH-227		0.018
14-04046-08	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	9.04E-02	8.11E-02	8.19E-02	8.64E-02	pCi/g	4/8/2014	1.0142	170	5.49		14.3	08	TH-227		0.003
14-04046-09	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	1.40E-01	1.07E-01	1.08E-01	1.18E-01	pCi/g	4/8/2014	1.0118	170	8.47		16.8	09	TH-227		0.009
14-04046-10	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	1.44E-01	1.03E-01	1.05E-01	1.01E-01	pCi/g	4/8/2014	1.0098	170	8.98		17.7	10	TH-227		0.006
14-04046-11	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	2.25E-01	1.30E-01	1.33E-01	1.15E-01	pCi/g	4/8/2014	1.0024	170.02	14.3		18.8	11	TH-227		0.01
14-04046-12	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	4/7/2014	4/10/2014	14-04046	Actinium-227	EML Th-01 Modified	7.14E-02	8.66E-02	8.70E-02	1.21E-01	pCi/g	4/8/2014	1.0008	170	3.32		13.9	12	TH-227		0.004
14-04046-01	LCS	KNOWN	04/07/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	5.44E+00	1.47E-01			pCi/g	4/8/2014	1	170	459		17.4	01	TH-230	5.4383	0.008
14-04046-01	LCS	SPIKE	04/07/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	6.65E+00	1.03E+00	1.32E+00	9.94E-02	pCi/g	4/8/2014	1	170	459		17.4	01	TH-230	5.4383	0.008
14-04046-02	MBL	BLANK	04/07/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	6.26E-02	6.77E-02	6.82E-02	9.83E-02	pCi/g	4/8/2014	1	170	4.96		18.5	02	TH-230		0.012
14-04046-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	2.56E+00	7.72E-01	8.34E-01	1.94E-01	pCi/g	4/8/2014	1.0027	170.02	93.5		19.2	03	TH-230		0.009
14-04046-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	1.81E+00	4.08E-01	4.65E-01	8.23E-02	pCi/g	4/8/2014	1.0015	170.02	145		20.1	04	TH-230		0.007
14-04046-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	1.57E+00	4.14E-01	4.58E-01	9.09E-02	pCi/g	4/8/2014	1.0023	170.02	97.3		19.3	05	TH-230		0.004
14-04046-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	1.38E+00	3.42E-01	3.83E-01	7.73E-02	pCi/g	4/8/2014	1.0085	170.02	107		18.6	06	TH-230		0.005
14-04046-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	5.71E-01	3.12E-01	3.20E-01	2.48E-01	pCi/g	4/8/2014	1.0006	170	18		18.3	07	TH-230		0.012
14-04046-08	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	9.35E-01	2.90E-01	3.12E-01	8.39E-02	pCi/g	4/8/2014	1.0142	170	58.5		14.3	08	TH-230		0.003
14-04046-09	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	1.24E+00	3.55E-01	3.86E-01	1.18E-01	pCi/g	4/8/2014	1.0118	170	77.3		16.8	09	TH-230		0.01
14-04046-10	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	1.36E+00	3.68E-01	4.05E-01	8.15E-02	pCi/g	4/8/2014	1.0098	170	87.5		17.7	10	TH-230		0.003
14-04046-11	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	3.41E+00	7.30E-01	8.42E-01	8.60E-02	pCi/g	4/8/2014	1.0024	170.02	223		18.8	11	TH-230		0.004
14-04046-12	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-230	EML Th-01 Modified	1.38E+00	4.29E-01	4.62E-01	1.18E-01	pCi/g	4/8/2014	1.0008	170	66.3		13.9	12	TH-230		0.004

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-04046**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04046-01	LCS	KNOWN	04/07/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	4.83E+00	1.74E-01				4/8/2014	1	170	373		17.4	01	TH-232	4.8328	0.003
14-04046-01	LCS	SPIKE	04/07/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	5.41E+00	8.67E-01	9.90E-01	7.59E-02	pCi/g	4/8/2014	1	170	373		17.4	01	TH-232	4.8328	0.003
14-04046-02	MBL	BLANK	04/07/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	3.97E-02	5.06E-02	5.07E-02	7.54E-02	pCi/g	4/8/2014	1	170	3.15		18.5	02	TH-232		0.005
14-04046-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	9.91E-01	3.97E-01	4.07E-01	2.00E-01	pCi/g	4/8/2014	1.0027	170.02	36.3		19.2	03	TH-232		0.01
14-04046-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	8.83E-01	2.47E-01	2.59E-01	5.20E-02	pCi/g	4/8/2014	1.0015	170.02	70.8		20.1	04	TH-232		0.001
14-04046-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	1.31E+00	3.65E-01	3.83E-01	7.69E-02	pCi/g	4/8/2014	1.0023	170.02	81.7		19.3	05	TH-232		0.002
14-04046-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	1.29E+00	3.24E-01	3.43E-01	6.17E-02	pCi/g	4/8/2014	1.0085	170.02	99.7		18.6	06	TH-232		0.002
14-04046-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	5.50E-01	2.95E-01	2.99E-01	1.79E-01	pCi/g	4/8/2014	1.0006	170	17.3		18.3	07	TH-232		0.004
14-04046-08	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	4.47E-01	1.85E-01	1.90E-01	9.57E-02	pCi/g	4/8/2014	1.0142	170	28		14.3	08	TH-232		0
14-04046-09	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	8.91E-01	2.82E-01	2.93E-01	8.42E-02	pCi/g	4/8/2014	1.0118	170	55.5		16.8	09	TH-232		0.003
14-04046-10	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	1.25E+00	3.48E-01	3.65E-01	6.47E-02	pCi/g	4/8/2014	1.0098	170	80.8		17.7	10	TH-232		0.001
14-04046-11	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	1.34E+00	3.60E-01	3.79E-01	6.35E-02	pCi/g	4/8/2014	1.0024	170.02	87.8		18.8	11	TH-232		0.001
14-04046-12	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	4/7/2014	4/10/2014	14-04046	Thorium-232	EML Th-01 Modified	7.15E-01	2.82E-01	2.89E-01	1.53E-01	pCi/g	4/8/2014	1.0008	170	34.3		13.9	12	TH-232		0.01

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-04075 Revised**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04075-01	LCS	KNOWN	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	8.07E+00	2.90E-01			pCi/g	4/11/2014	1	170	396		17.5	01	U-234	8.0687	0.0010
14-04075-01	LCS	SPIKE	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	7.41E+00	1.19E+00	1.30E+00	7.82E-02	pCi/g	4/11/2014	1	170	396		17.5	01	U-234	8.0687	0.0010
14-04075-02	MBL	BLANK	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	6.11E-02	5.90E-02	5.92E-02	7.32E-02	pCi/g	4/11/2014	1	170	5		18.2	02	U-234		0.0000
14-04075-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	8.88E-01	2.22E-01	2.31E-01	4.95E-02	pCi/g	4/11/2014	1.0081	170	74.8		17.3	03	U-234		0.0010
14-04075-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	8.61E-01	2.27E-01	2.36E-01	6.18E-02	pCi/g	4/11/2014	1.002	170	66.7		16.3	04	U-234		0.0020
14-04075-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	8.39E-01	2.26E-01	2.34E-01	7.36E-02	pCi/g	4/11/2014	1.0002	170	64.3		15.9	05	U-234		0.0040
14-04075-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	1.02E+00	2.60E-01	2.70E-01	9.09E-02	pCi/g	4/11/2014	1.0002	170	73.8		18.5	06	U-234		0.0070
14-04075-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	4.08E-01	1.37E-01	1.40E-01	5.18E-02	pCi/g	4/11/2014	1.0023	170	37.7		18.2	07	U-234		0.0020
14-04075-08	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	2.86E+00	4.58E-01	5.01E-01	6.33E-02	pCi/g	4/11/2014	1.007	170	255		19	08	U-234		0.0040
14-04075-09	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	6.23E-01	1.95E-01	2.00E-01	7.19E-02	pCi/g	4/11/2014	1.0017	170	45.5		16.9	09	U-234		0.0030
14-04075-10	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	1.24E+01	1.68E+00	1.90E+00	6.47E-02	pCi/g	4/11/2014	1.0009	170	800		16.9	10	U-234		0.0010
14-04075-11	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	9.85E-01	2.35E-01	2.45E-01	4.90E-02	pCi/g	4/11/2014	1.0053	170	83.8		18.9	11	U-234		0.0010
14-04075-12	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	9.11E-01	2.28E-01	2.37E-01	6.82E-02	pCi/g	4/11/2014	1.0105	170	75.3		18.7	12	U-234		0.0040
14-04075-13	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	7.56E-01	2.19E-01	2.26E-01	5.86E-02	pCi/g	4/11/2014	1.0004	170	53.8		17.3	13	U-234		0.0010
14-04075-14	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	3.56E+00	6.17E-01	6.68E-01	6.40E-02	pCi/g	4/11/2014	0.9993	170	232		16.9	14	U-234		0.0010
14-04075-15	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-234	EML U-02 Modified	7.26E-01	2.16E-01	2.22E-01	5.96E-02	pCi/g	4/11/2014	1.0007	170	50.8		17.8	15	U-234		0.0010
14-04075-01	LCS	SPIKE	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	4.58E-01	2.11E-01	2.13E-01	9.64E-02	pCi/g	4/11/2014	1	170	19.8		17.5	01	U-235		0.0010
14-04075-02	MBL	BLANK	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	1.25E-02	3.00E-02	3.00E-02	6.29E-02	pCi/g	4/11/2014	1	170	0.83		18.2	02	U-235		0.0010
14-04075-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	1.15E-01	8.22E-02	8.26E-02	6.11E-02	pCi/g	4/11/2014	1.0081	170	7.83		17.3	03	U-235		0.0010
14-04075-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	1.09E-01	8.37E-02	8.40E-02	6.65E-02	pCi/g	4/11/2014	1.002	170	6.83		16.3	04	U-235		0.0010
14-04075-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	7.78E-02	7.13E-02	7.15E-02	6.72E-02	pCi/g	4/11/2014	1.0002	170	4.83		15.9	05	U-235		0.0010
14-04075-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	1.79E-01	1.13E-01	1.14E-01	8.93E-02	pCi/g	4/11/2014	1.0002	170	10.5		18.5	06	U-235		0.0030
14-04075-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	6.23E-02	5.93E-02	5.95E-02	6.40E-02	pCi/g	4/11/2014	1.0023	170	4.66		18.2	07	U-235		0.0020
14-04075-08	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	1.87E-01	1.04E-01	1.04E-01	7.26E-02	pCi/g	4/11/2014	1.007	170	13.5		19	08	U-235		0.0030
14-04075-09	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	6.76E-02	7.45E-02	7.46E-02	1.01E-01	pCi/g	4/11/2014	1.0017	170	4		16.9	09	U-235		0.0000
14-04075-10	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	7.04E-01	2.42E-01	2.47E-01	7.98E-02	pCi/g	4/11/2014	1.0009	170	36.8		16.9	10	U-235		0.0010
14-04075-11	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	1.01E-01	8.10E-02	8.13E-02	8.69E-02	pCi/g	4/11/2014	1.0053	170	7		18.9	11	U-235		0.0000
14-04075-12	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	6.95E-02	6.62E-02	6.63E-02	7.13E-02	pCi/g	4/11/2014	1.0105	170	4.66		18.7	12	U-235		0.0020
14-04075-13	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	1.36E-01	9.74E-02	9.79E-02	7.23E-02	pCi/g	4/11/2014	1.0004	170	7.83		17.3	13	U-235		0.0010
14-04075-14	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	3.37E-01	1.62E-01	1.64E-01	7.90E-02	pCi/g	4/11/2014	0.9993	170	17.8		16.9	14	U-235		0.0010
14-04075-15	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-235	EML U-02 Modified	8.81E-02	8.51E-02	8.54E-02	1.06E-01	pCi/g	4/11/2014	1.0007	170	5		17.8	15	U-235		0.0000

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-04075 Revised**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04075-01	LCS	KNOWN	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	7.86E+00	2.83E-01			pCi/g	4/11/2014	1	170	390		17.5	01	U-238	7.8649	0.0020
14-04075-01	LCS	SPIKE	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	7.27E+00	1.17E+00	1.28E+00	8.92E-02	pCi/g	4/11/2014	1	170	390		17.5	01	U-238	7.8649	0.0020
14-04075-02	MBL	BLANK	04/10/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	2.02E-02	3.43E-02	3.43E-02	5.82E-02	pCi/g	4/11/2014	1	170	1.66		18.2	02	U-238		0.0020
14-04075-03	DUP	FEEBRIS08-1.028-029	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	8.09E-01	2.10E-01	2.18E-01	6.20E-02	pCi/g	4/11/2014	1.0081	170	68.5		17.3	03	U-238		0.0030
14-04075-04	DO	FEEBRIS08-1.028-029	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	9.11E-01	2.34E-01	2.43E-01	5.37E-02	pCi/g	4/11/2014	1.002	170	70.8		16.3	04	U-238		0.0010
14-04075-05	TRG	FEEBRIS08-1.040-041	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	9.98E-01	2.49E-01	2.59E-01	5.42E-02	pCi/g	4/11/2014	1.0002	170	76.8		15.9	05	U-238		0.0010
14-04075-06	TRG	FEEBRISWL119.005-006	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	9.57E-01	2.49E-01	2.58E-01	6.57E-02	pCi/g	4/11/2014	1.0002	170	69.7		18.5	06	U-238		0.0020
14-04075-07	TRG	FEEBRISWL119.051-052	01/30/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	4.19E-01	1.39E-01	1.42E-01	4.51E-02	pCi/g	4/11/2014	1.0023	170	38.8		18.2	07	U-238		0.0010
14-04075-08	TRG	FEEBRIS05-3.029-030	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	2.51E+00	4.19E-01	4.56E-01	1.02E-01	pCi/g	4/11/2014	1.007	170	225		19	08	U-238		0.0190
14-04075-09	TRG	FEEBRIS05-3.029-030D	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	5.57E-01	1.84E-01	1.89E-01	8.99E-02	pCi/g	4/11/2014	1.0017	170	40.8		16.9	09	U-238		0.0070
14-04075-10	TRG	FEEBRIS05-3.033-034	01/31/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	1.19E+01	1.63E+00	1.84E+00	7.37E-02	pCi/g	4/11/2014	1.0009	170	775		16.9	10	U-238		0.0020
14-04075-11	TRG	FEEBRIS02-2.005-006	02/01/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	8.65E-01	2.18E-01	2.27E-01	7.01E-02	pCi/g	4/11/2014	1.0053	170	74		18.9	11	U-238		0.0000
14-04075-12	TRG	FEEBRIS02-2.021-022	02/01/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	7.66E-01	2.06E-01	2.13E-01	5.76E-02	pCi/g	4/11/2014	1.0105	170	63.7		18.7	12	U-238		0.0020
14-04075-13	TRG	FEEBRIS01-2.024-025	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	1.20E+00	2.88E-01	3.00E-01	7.34E-02	pCi/g	4/11/2014	1.0004	170	85.5		17.3	13	U-238		0.0030
14-04075-14	TRG	FEEBRIS01-2.039-040	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	3.84E+00	6.53E-01	7.08E-01	7.30E-02	pCi/g	4/11/2014	0.9993	170	252		16.9	14	U-238		0.0020
14-04075-15	TRG	FEEBRIS01-2.028-029	02/03/14 00:00	4/10/2014	4/16/2014	14-04075	Uranium-238	EML U-02 Modified	5.71E-01	1.90E-01	1.94E-01	8.51E-02	pCi/g	4/11/2014	1.0007	170	40.2		17.8	15	U-238		0.0050

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG: **14-03004**
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03004-01	LCS	KNOWN	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	3/4/2014	1	30				01	CO-60	130.4300
14-03004-01	LCS	KNOWN	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	3/4/2014	1	30				01	CS-137	82.9600
14-03004-01	LCS	SPIKE	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Cobalt-60	LANL ER-130 Modified	1.35E+02	8.82E+00	1.12E+01	1.44E+00	pCi/g	3/4/2014	1	30				01	CO-60	130.4300
14-03004-01	LCS	SPIKE	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Cesium-137	LANL ER-130 Modified	8.93E+01	8.26E+00	9.44E+00	2.15E+00	pCi/g	3/4/2014	1	30				01	CS-137	82.9600
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.05E-01	1.23E-01	1.23E-01	2.63E-01	pCi/g	3/4/2014	1	60				02	AC-228	
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.68E-02	3.44E-02	3.44E-02	1.50E-01	pCi/g	3/4/2014	1	60				02	BI-214	
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	2.40E-01	4.13E-01	4.13E-01	8.39E-01	pCi/g	3/4/2014	1	60				02	K-40	
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	6.92E-01	1.09E+00	1.09E+00	1.76E+00	pCi/g	3/4/2014	1	60				02	PA-231	
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	1.06E-01	5.23E-01	5.24E-01	7.87E-01	pCi/g	3/4/2014	1	60				02	PB-210	
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	4.12E-02	9.40E-02	9.40E-02	1.35E-01	pCi/g	3/4/2014	1	60				02	PB-214	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	8.87E-01	1.83E-01	1.88E-01	6.52E-01	pCi/g	3/4/2014	613.97	60				03	AC-228	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.09E+00	1.64E-01	1.73E-01	2.02E-01	pCi/g	3/4/2014	613.97	60				03	BI-214	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	1.53E+01	2.14E+00	2.27E+00	1.16E+00	pCi/g	3/4/2014	613.97	60				03	K-40	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	9.79E-01	1.60E+00	1.60E+00	2.45E+00	pCi/g	3/4/2014	613.97	60				03	PA-231	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	1.43E+00	1.04E+00	1.04E+00	1.74E+00	pCi/g	3/4/2014	613.97	60				03	PB-210	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.00E+00	1.31E-01	1.41E-01	2.15E-01	pCi/g	3/4/2014	613.97	60				03	PB-212	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	1.13E+00	1.62E-01	1.72E-01	1.70E-01	pCi/g	3/4/2014	613.97	60				03	PB-214	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	7.58E-01	1.73E-01	1.78E-01	1.13E-01	pCi/g	3/4/2014	613.97	60				03	TL-208	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	7.20E-01	1.77E-01	1.81E-01	4.25E-01	pCi/g	3/4/2014	613.97	60				04	AC-228	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.13E+00	1.85E-01	1.94E-01	1.92E-01	pCi/g	3/4/2014	613.97	60				04	BI-214	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	1.43E+01	1.97E+00	2.10E+00	6.09E-01	pCi/g	3/4/2014	613.97	60				04	K-40	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	1.62E+00	1.61E+00	1.61E+00	2.52E+00	pCi/g	3/4/2014	613.97	60				04	PA-231	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	1.18E+00	1.33E+00	1.33E+00	2.22E+00	pCi/g	3/4/2014	613.97	60				04	PB-210	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	9.11E-01	1.28E-01	1.36E-01	2.44E-01	pCi/g	3/4/2014	613.97	60				04	PB-212	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	1.11E+00	1.66E-01	1.75E-01	2.54E-01	pCi/g	3/4/2014	613.97	60				04	PB-214	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	8.09E-01	1.61E-01	1.66E-01	1.13E-01	pCi/g	3/4/2014	613.97	60				04	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG: **14-03004**
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.13E+00	2.18E-01	2.26E-01	3.71E-01	pCi/g	3/4/2014	562.27	60				05	AC-228	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.40E+00	1.77E-01	1.91E-01	2.31E-01	pCi/g	3/4/2014	562.27	60				05	BI-214	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	2.12E+01	2.49E+00	2.72E+00	7.65E-01	pCi/g	3/4/2014	562.27	60				05	K-40	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	-8.34E-01	1.48E+00	1.48E+00	2.30E+00	pCi/g	3/4/2014	562.27	60				05	PA-231	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	9.73E-01	1.06E+00	1.06E+00	1.77E+00	pCi/g	3/4/2014	562.27	60				05	PB-210	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.52E-01	1.32E-01	1.33E-01	2.02E-01	pCi/g	3/4/2014	562.27	60				05	PB-212	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	1.39E+00	1.52E-01	1.68E-01	2.01E-01	pCi/g	3/4/2014	562.27	60				05	PB-214	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	1.08E+00	1.67E-01	1.76E-01	1.90E-01	pCi/g	3/4/2014	562.27	60				05	TL-208	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.28E+00	2.27E-01	2.37E-01	4.78E-01	pCi/g	3/4/2014	527.78	60				06	AC-228	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	2.65E+00	2.59E-01	2.93E-01	1.95E-01	pCi/g	3/4/2014	527.78	60				06	BI-214	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	1.60E+01	1.99E+00	2.15E+00	9.40E-01	pCi/g	3/4/2014	527.78	60				06	K-40	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	6.94E-01	1.53E+00	1.53E+00	2.52E+00	pCi/g	3/4/2014	527.78	60				06	PA-231	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	2.08E+00	1.05E+00	1.05E+00	1.67E+00	pCi/g	3/4/2014	527.78	60				06	PB-210	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.09E+00	1.45E-01	1.55E-01	2.92E-01	pCi/g	3/4/2014	527.78	60				06	PB-212	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	2.63E+00	2.33E-01	2.69E-01	2.15E-01	pCi/g	3/4/2014	527.78	60				06	PB-214	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	1.01E+00	1.64E-01	1.72E-01	1.21E-01	pCi/g	3/4/2014	527.78	60				06	TL-208	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.35E-01	6.26E-01	6.26E-01	1.01E+00	pCi/g	3/4/2014	127.19	60				07	AC-228	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	7.04E+00	8.67E-01	9.39E-01	7.12E-01	pCi/g	3/4/2014	127.19	60				07	BI-214	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	3.98E+00	2.13E+00	2.14E+00	4.25E+00	pCi/g	3/4/2014	127.19	60				07	K-40	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	1.63E+00	5.25E+00	5.25E+00	8.53E+00	pCi/g	3/4/2014	127.19	60				07	PA-231	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	1.27E+01	4.74E+00	4.78E+00	7.33E+00	pCi/g	3/4/2014	127.19	60				07	PB-210	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	-1.48E+00	4.35E-01	4.41E-01	5.19E-01	pCi/g	3/4/2014	127.19	60				07	PB-212	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	8.71E+00	7.93E-01	9.10E-01	8.25E-01	pCi/g	3/4/2014	127.19	60				07	PB-214	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	2.94E-01	4.71E-01	4.71E-01	7.86E-01	pCi/g	3/4/2014	127.19	60				07	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03004**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	4.31E-01	7.10E-01	7.10E-01	1.20E+00	pCi/g	3/4/2014	374.46	60				08	AC-228	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	8.79E+00	8.34E-01	9.48E-01	6.25E-01	pCi/g	3/4/2014	374.46	60				08	BI-214	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	6.00E+00	3.26E+00	3.27E+00	4.99E+00	pCi/g	3/4/2014	374.46	60				08	K-40	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	1.67E+00	4.19E+00	4.19E+00	9.71E+00	pCi/g	3/4/2014	374.46	60				08	PA-231	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	5.24E+00	3.15E+00	3.16E+00	4.72E+00	pCi/g	3/4/2014	374.46	60				08	PB-210	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.72E+00	4.47E-01	4.56E-01	6.43E-01	pCi/g	3/4/2014	374.46	60				08	PB-212	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	8.83E+00	9.61E-01	1.06E+00	7.30E-01	pCi/g	3/4/2014	374.46	60				08	PB-214	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	7.54E-01	5.16E-01	5.17E-01	9.08E-01	pCi/g	3/4/2014	374.46	60				08	TL-208	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.24E+00	2.44E-01	2.52E-01	7.84E-01	pCi/g	3/4/2014	527.73	60				09	AC-228	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.42E+00	2.10E-01	2.22E-01	2.24E-01	pCi/g	3/4/2014	527.73	60				09	BI-214	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	1.96E+01	2.66E+00	2.85E+00	1.34E+00	pCi/g	3/4/2014	527.73	60				09	K-40	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	-2.86E-01	9.60E-01	9.60E-01	3.04E+00	pCi/g	3/4/2014	527.73	60				09	PA-231	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	1.48E+00	1.44E+00	1.44E+00	2.38E+00	pCi/g	3/4/2014	527.73	60				09	PB-210	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.41E+00	1.73E-01	1.88E-01	2.65E-01	pCi/g	3/4/2014	527.73	60				09	PB-212	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	1.42E+00	1.80E-01	1.94E-01	2.47E-01	pCi/g	3/4/2014	527.73	60				09	PB-214	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	1.33E+00	2.82E-01	2.91E-01	4.98E-01	pCi/g	3/4/2014	527.73	60				09	TL-208	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.10E+00	1.99E-01	2.07E-01	2.97E-01	pCi/g	3/4/2014	612.15	60				10	AC-228	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.26E+00	1.82E-01	1.93E-01	2.18E-01	pCi/g	3/4/2014	612.15	60				10	BI-214	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	1.83E+01	2.16E+00	2.36E+00	1.02E+00	pCi/g	3/4/2014	612.15	60				10	K-40	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	6.90E-02	5.98E-01	5.98E-01	1.94E+00	pCi/g	3/4/2014	612.15	60				10	PA-231	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	2.12E+00	9.70E-01	9.76E-01	1.40E+00	pCi/g	3/4/2014	612.15	60				10	PB-210	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.21E+00	1.40E-01	1.53E-01	1.86E-01	pCi/g	3/4/2014	612.15	60				10	PB-212	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	1.27E+00	1.49E-01	1.63E-01	2.31E-01	pCi/g	3/4/2014	612.15	60				10	PB-214	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	1.05E+00	1.59E-01	1.68E-01	1.79E-01	pCi/g	3/4/2014	612.15	60				10	TL-208	

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Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG: **14-03004**
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.34E+00	2.30E-01	2.40E-01	3.24E-01	pCi/g	3/4/2014	529.35	60				11	AC-228	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.16E+00	1.70E-01	1.80E-01	2.10E-01	pCi/g	3/4/2014	529.35	60				11	BI-214	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	1.78E+01	2.18E+00	2.36E+00	5.97E-01	pCi/g	3/4/2014	529.35	60				11	K-40	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	-9.46E-01	1.49E+00	1.49E+00	2.22E+00	pCi/g	3/4/2014	529.35	60				11	PA-231	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	1.32E+00	1.16E+00	1.16E+00	1.58E+00	pCi/g	3/4/2014	529.35	60				11	PB-210	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.43E+00	1.94E-01	2.08E-01	2.12E-01	pCi/g	3/4/2014	529.35	60				11	PB-212	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	1.18E+00	1.48E-01	1.60E-01	2.03E-01	pCi/g	3/4/2014	529.35	60				11	PB-214	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	9.79E-01	1.75E-01	1.82E-01	2.21E-01	pCi/g	3/4/2014	529.35	60				11	TL-208	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.22E+00	2.69E-01	2.76E-01	4.83E-01	pCi/g	3/4/2014	531.76	60				12	AC-228	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.24E+00	2.15E-01	2.25E-01	2.95E-01	pCi/g	3/4/2014	531.76	60				12	BI-214	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	2.03E+01	2.72E+00	2.92E+00	1.30E+00	pCi/g	3/4/2014	531.76	60				12	K-40	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	3.64E+00	1.87E+00	1.88E+00	3.10E+00	pCi/g	3/4/2014	531.76	60				12	PA-231	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	1.08E+00	1.25E+00	1.25E+00	2.08E+00	pCi/g	3/4/2014	531.76	60				12	PB-210	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.29E+00	1.64E-01	1.77E-01	3.03E-01	pCi/g	3/4/2014	531.76	60				12	PB-212	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	1.42E+00	1.80E-01	1.94E-01	2.76E-01	pCi/g	3/4/2014	531.76	60				12	PB-214	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	1.24E+00	2.07E-01	2.16E-01	2.12E-01	pCi/g	3/4/2014	531.76	60				12	TL-208	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Actinium-228	LANL ER-130 Modified	1.43E+00	4.49E-01	4.55E-01	7.28E-01	pCi/g	3/4/2014	573.29	60				13	AC-228	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Bismuth-214	LANL ER-130 Modified	1.31E+00	2.87E-01	2.94E-01	5.02E-01	pCi/g	3/4/2014	573.29	60				13	BI-214	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Potassium-40	LANL ER-130 Modified	1.93E+01	3.15E+00	3.30E+00	2.02E+00	pCi/g	3/4/2014	573.29	60				13	K-40	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Protactinium-231	LANL ER-130 Modified	-5.81E-01	2.16E+00	2.16E+00	4.98E+00	pCi/g	3/4/2014	573.29	60				13	PA-231	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-210	LANL ER-130 Modified	5.80E-01	1.41E+00	1.41E+00	2.10E+00	pCi/g	3/4/2014	573.29	60				13	PB-210	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-212	LANL ER-130 Modified	1.40E+00	2.52E-01	2.62E-01	3.43E-01	pCi/g	3/4/2014	573.29	60				13	PB-212	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Lead-214	LANL ER-130 Modified	9.83E-01	2.54E-01	2.59E-01	4.06E-01	pCi/g	3/4/2014	573.29	60				13	PB-214	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	4/3/2014	14-03004	Thallium-208	LANL ER-130 Modified	1.10E+00	3.38E-01	3.43E-01	4.84E-01	pCi/g	3/4/2014	573.29	60				13	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-03004
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.27E-01	1.04E-01	1.06E-01	1.15E-01	pCi/g	3/17/2014	1	170	6.98		17.7	02	TH-227	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.34E-01	1.10E-01	1.11E-01	1.21E-01	pCi/g	3/17/2014	1.0023	170.02	6.98		18.8	03	TH-227	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.35E-01	1.05E-01	1.07E-01	1.04E-01	pCi/g	3/17/2014	1.0006	170	7.32		13.9	04	TH-227	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.35E-01	9.84E-02	9.98E-02	1.01E-01	pCi/g	3/17/2014	1.0005	170	8.81		17.5	05	TH-227	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	3.36E-01	1.56E-01	1.61E-01	8.89E-02	pCi/g	3/17/2014	1.0003	170	21.3		17	06	TH-227	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.77E+00	4.57E-01	5.07E-01	8.42E-02	pCi/g	3/17/2014	1.0926	170	110		16.3	07	TH-227	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.63E+00	3.68E-01	4.19E-01	5.53E-02	pCi/g	3/17/2014	1.0905	170	141		15.9	08	TH-227	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.95E-01	1.11E-01	1.14E-01	7.60E-02	pCi/g	3/17/2014	1.0005	170	13.5		18.5	09	TH-227	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.31E-01	8.85E-02	8.99E-02	7.24E-02	pCi/g	3/17/2014	1.0052	170	9.49		18.2	10	TH-227	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.74E-01	1.14E-01	1.16E-01	7.39E-02	pCi/g	3/17/2014	1.004	170	9.83		17.9	11	TH-227	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	1.71E-01	1.11E-01	1.13E-01	8.57E-02	pCi/g	3/17/2014	1.0004	170	10.5		16.9	12	TH-227	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	3/20/2014	14-03004	Actinium-227	EML Th-01 Modified	5.77E-02	6.84E-02	6.88E-02	9.98E-02	pCi/g	3/17/2014	1.0121	170	3.81		18.7	13	TH-227	
14-03004-01	LCS	KNOWN	03/03/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	5.47E+00	1.48E-01			pCi/g	3/17/2014	1	170	348		16.8	01	TH-230	5.4659
14-03004-01	LCS	SPIKE	03/03/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	5.83E+00	9.81E-01	1.22E+00	8.79E-02	pCi/g	3/17/2014	1	170	348		16.8	01	TH-230	5.4659
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	5.29E-02	7.18E-02	7.21E-02	1.12E-01	pCi/g	3/17/2014	1	170	2.98		17.7	02	TH-230	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	1.53E+00	4.38E-01	4.77E-01	1.23E-01	pCi/g	3/17/2014	1.0023	170.02	81.8		18.8	03	TH-230	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	1.57E+00	4.35E-01	4.76E-01	9.39E-02	pCi/g	3/17/2014	1.0006	170	87.5		13.9	04	TH-230	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	1.29E+00	3.48E-01	3.83E-01	6.22E-02	pCi/g	3/17/2014	1.0005	170	86.8		17.5	05	TH-230	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	5.10E+01	8.79E+00	1.08E+01	7.34E-02	pCi/g	3/17/2014	1.0003	170	3320		17	06	TH-230	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	2.40E+02	4.28E+01	5.20E+01	8.81E-02	pCi/g	3/17/2014	1.0926	170	15400		16.3	07	TH-230	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	2.02E+02	3.12E+01	4.00E+01	4.70E-02	pCi/g	3/17/2014	1.0905	170	17900		15.9	08	TH-230	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	2.75E+00	5.93E-01	6.83E-01	9.68E-02	pCi/g	3/17/2014	1.0005	170	195		18.5	09	TH-230	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	1.40E+00	3.51E-01	3.92E-01	8.07E-02	pCi/g	3/17/2014	1.0052	170	104		18.2	10	TH-230	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	1.38E+00	3.92E-01	4.27E-01	1.14E-01	pCi/g	3/17/2014	1.004	170	79.8		17.9	11	TH-230	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	1.66E+00	4.29E-01	4.76E-01	8.36E-02	pCi/g	3/17/2014	1.0004	170	104		16.9	12	TH-230	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-230	EML Th-01 Modified	1.03E+00	2.97E-01	3.24E-01	6.16E-02	pCi/g	3/17/2014	1.0121	170	69.8		18.7	13	TH-230	

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Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03004**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03004-01	LCS	KNOWN	03/03/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	4.87E+00	1.75E-01			pCi/g	3/17/2014	1	170	291		16.8	01	TH-232	4.8655
14-03004-01	LCS	SPIKE	03/03/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	4.86E+00	8.48E-01	9.50E-01	6.97E-02	pCi/g	3/17/2014	1	170	291		16.8	01	TH-232	4.8655
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	3.25E-02	4.99E-02	4.99E-02	7.40E-02	pCi/g	3/17/2014	1	170	1.83		17.7	02	TH-232	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.05E+00	3.38E-01	3.50E-01	1.05E-01	pCi/g	3/17/2014	1.0023	170.02	56.3		18.8	03	TH-232	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	8.93E-01	2.98E-01	3.09E-01	1.13E-01	pCi/g	3/17/2014	1.0006	170	50		13.9	04	TH-232	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.71E+00	4.24E-01	4.49E-01	6.21E-02	pCi/g	3/17/2014	1.0005	170	115		17.5	05	TH-232	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.43E+00	3.79E-01	3.99E-01	8.65E-02	pCi/g	3/17/2014	1.0003	170	93.3		17	06	TH-232	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.09E+00	3.20E-01	3.34E-01	7.46E-02	pCi/g	3/17/2014	1.0926	170	69.7		16.3	07	TH-232	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	8.78E-01	2.38E-01	2.50E-01	6.75E-02	pCi/g	3/17/2014	1.0905	170	78		15.9	08	TH-232	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.21E+00	3.23E-01	3.40E-01	7.40E-02	pCi/g	3/17/2014	1.0005	170	85.5		18.5	09	TH-232	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.11E+00	3.00E-01	3.16E-01	8.05E-02	pCi/g	3/17/2014	1.0052	170	83		18.2	10	TH-232	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	9.73E-01	3.13E-01	3.24E-01	1.45E-01	pCi/g	3/17/2014	1.004	170	56.5		17.9	11	TH-232	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.19E+00	3.41E-01	3.57E-01	9.52E-02	pCi/g	3/17/2014	1.0004	170	75.2		16.9	12	TH-232	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	3/20/2014	14-03004	Thorium-232	EML Th-01 Modified	1.12E+00	3.15E-01	3.30E-01	8.84E-02	pCi/g	3/17/2014	1.0121	170	76		18.7	13	TH-232	
14-03004-01	LCS	KNOWN	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	8.02E+00	2.89E-01			pCi/g	3/17/2014	1	170	535		17.5	01	U-234	8.0242
14-03004-01	LCS	SPIKE	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	7.84E+00	1.11E+00	1.25E+00	6.12E-02	pCi/g	3/17/2014	1	170	535		17.5	01	U-234	8.0242
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	3.34E-02	4.04E-02	4.05E-02	4.93E-02	pCi/g	3/17/2014	1	170	2.83		17	02	U-234	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	1.01E+00	2.88E-01	2.97E-01	1.08E-01	pCi/g	3/17/2014	1.0061	170	59		16.3	03	U-234	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	8.21E-01	2.44E-01	2.51E-01	6.61E-02	pCi/g	3/17/2014	1.0044	170	51.8		15.9	04	U-234	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	1.26E+00	2.83E-01	2.97E-01	7.10E-02	pCi/g	3/17/2014	0.9996	170	100		18.5	05	U-234	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	1.46E+00	3.40E-01	3.56E-01	7.31E-02	pCi/g	3/17/2014	1.0244	170	95.7		18.2	06	U-234	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	1.08E+00	2.54E-01	2.66E-01	7.24E-02	pCi/g	3/17/2014	1.0926	170	89.2		17.9	07	U-234	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	1.15E+00	2.59E-01	2.72E-01	5.57E-02	pCi/g	3/17/2014	1.0905	170	98.7		16.9	08	U-234	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	9.13E-01	2.31E-01	2.40E-01	5.23E-02	pCi/g	3/17/2014	1.0021	170	72.8		18.7	09	U-234	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	9.96E-01	2.61E-01	2.71E-01	8.54E-02	pCi/g	3/17/2014	1.0262	170	70		18.4	10	U-234	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	8.08E-01	3.10E-01	3.16E-01	1.09E-01	pCi/g	3/17/2014	1.0136	170	30.8		18.7	11	U-234	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	8.05E-01	2.19E-01	2.27E-01	5.43E-02	pCi/g	3/17/2014	1.0039	170	61.8		17.7	12	U-234	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-234	EML U-02 Modified	9.81E-01	2.43E-01	2.53E-01	7.54E-02	pCi/g	3/17/2014	1.0053	170	78		16.9	13	U-234	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-03004
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03004-01	LCS	SPIKE	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	4.31E-01	1.81E-01	1.83E-01	7.55E-02	pCi/g	3/17/2014	1	170	23.8		17.5	01	U-235	
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	1.21E-02	2.90E-02	2.90E-02	6.08E-02	pCi/g	3/17/2014	1	170	0.83		17	02	U-235	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	2.32E-01	1.46E-01	1.47E-01	1.26E-01	pCi/g	3/17/2014	1.0061	170	11		16.3	03	U-235	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	1.62E-02	3.89E-02	3.89E-02	8.15E-02	pCi/g	3/17/2014	1.0044	170	0.83		15.9	04	U-235	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	1.01E-01	8.18E-02	8.21E-02	8.15E-02	pCi/g	3/17/2014	0.9996	170	6.49		18.5	05	U-235	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	1.70E-01	1.19E-01	1.19E-01	1.13E-01	pCi/g	3/17/2014	1.0244	170	9		18.2	06	U-235	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	9.94E-02	7.84E-02	7.88E-02	7.13E-02	pCi/g	3/17/2014	1.0926	170	6.66		17.9	07	U-235	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	4.07E-02	4.92E-02	4.93E-02	6.00E-02	pCi/g	3/17/2014	1.0905	170	2.83		16.9	08	U-235	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	1.08E-01	8.65E-02	8.68E-02	9.27E-02	pCi/g	3/17/2014	1.0021	170	7		18.7	09	U-235	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	1.02E-01	8.53E-02	8.56E-02	7.33E-02	pCi/g	3/17/2014	1.0262	170	5.83		18.4	10	U-235	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	8.60E-02	1.12E-01	1.12E-01	1.55E-01	pCi/g	3/17/2014	1.0136	170	2.66		18.7	11	U-235	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	1.23E-01	9.03E-02	9.07E-02	7.67E-02	pCi/g	3/17/2014	1.0039	170	7.66		17.7	12	U-235	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-235	EML U-02 Modified	9.31E-02	8.11E-02	8.13E-02	9.30E-02	pCi/g	3/17/2014	1.0053	170	6		16.9	13	U-235	
14-03004-01	LCS	KNOWN	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	7.82E+00	2.82E-01			pCi/g	3/17/2014	1	170	499		17.5	01	U-238	7.8216
14-03004-01	LCS	SPIKE	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	7.29E+00	1.05E+00	1.17E+00	8.76E-02	pCi/g	3/17/2014	1	170	499		17.5	01	U-238	7.8216
14-03004-02	MBL	BLANK	03/03/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	5.28E-02	5.23E-02	5.24E-02	6.17E-02	pCi/g	3/17/2014	1	170	4.49		17	02	U-238	
14-03004-03	DUP	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.15E+00	3.09E-01	3.20E-01	7.11E-02	pCi/g	3/17/2014	1.0061	170	67.8		16.3	03	U-238	
14-03004-04	DO	FEEBRICS.021314	02/13/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	8.15E-01	2.43E-01	2.50E-01	7.54E-02	pCi/g	3/17/2014	1.0044	170	51.7		15.9	04	U-238	
14-03004-05	TRG	FEEBRISIC-6.019-020	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.03E+00	2.50E-01	2.60E-01	7.51E-02	pCi/g	3/17/2014	0.9996	170	82.2		18.5	05	U-238	
14-03004-06	TRG	FEEBRISIC-6.024-025	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.49E+00	3.43E-01	3.59E-01	6.35E-02	pCi/g	3/17/2014	1.0244	170	97.8		18.2	06	U-238	
14-03004-07	TRG	FEEBRISIC-6.025-026	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.04E+00	2.52E-01	2.62E-01	1.17E-01	pCi/g	3/17/2014	1.0926	170	86.1		17.9	07	U-238	
14-03004-08	TRG	FEEBRISIC-6.026-027	02/18/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.12E+00	2.54E-01	2.67E-01	6.09E-02	pCi/g	3/17/2014	1.0905	170	96.5		16.9	08	U-238	
14-03004-09	TRG	FEEBRIS13-6.021-022	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.10E+00	2.58E-01	2.69E-01	5.21E-02	pCi/g	3/17/2014	1.0021	170	87.8		18.7	09	U-238	
14-03004-10	TRG	FEEBRIS13-6.021-022D	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.01E+00	2.62E-01	2.72E-01	8.50E-02	pCi/g	3/17/2014	1.0262	170	71		18.4	10	U-238	
14-03004-11	TRG	FEEBRIS13-6.039-040	02/21/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	1.04E+00	3.62E-01	3.70E-01	1.57E-01	pCi/g	3/17/2014	1.0136	170	40		18.7	11	U-238	
14-03004-12	TRG	FEEBRI14-5.012-013	02/26/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	8.66E-01	2.28E-01	2.37E-01	5.41E-02	pCi/g	3/17/2014	1.0039	170	66.8		17.7	12	U-238	
14-03004-13	TRG	FEEBRI14-5.060-061	02/26/14 00:00	3/3/2014	3/19/2014	14-03004	Uranium-238	EML U-02 Modified	8.64E-01	2.25E-01	2.34E-01	7.51E-02	pCi/g	3/17/2014	1.0053	170	69		16.9	13	U-238	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG: **14-03082**
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	3/18/2014	1	30				01	CO-60	130.4300
14-03082-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	3/18/2014	1	30				01	CS-137	82.9600
14-03082-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Cobalt-60	LANL ER-130 Modified	1.36E+02	8.42E+00	1.09E+01	6.01E-01	pCi/g	3/18/2014	1	30				01	CO-60	130.4300
14-03082-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Cesium-137	LANL ER-130 Modified	8.90E+01	9.45E+00	1.05E+01	8.00E-01	pCi/g	3/18/2014	1	30				01	CS-137	82.9600
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	1.08E-01	5.73E-02	5.76E-02	1.34E-01	pCi/g	3/18/2014	1	60				02	AC-228	
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	4.99E-02	3.76E-02	3.77E-02	7.41E-02	pCi/g	3/18/2014	1	60				02	BI-214	
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.83E-01	1.67E-01	1.68E-01	3.74E-01	pCi/g	3/18/2014	1	60				02	K-40	
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	2.76E-01	5.46E-01	5.46E-01	9.67E-01	pCi/g	3/18/2014	1	60				02	PA-231	
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	4.04E-01	3.89E-01	3.90E-01	5.79E-01	pCi/g	3/18/2014	1	60				02	PB-210	
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	-5.91E-03	3.92E-02	3.92E-02	6.49E-02	pCi/g	3/18/2014	1	60				02	PB-214	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	8.32E-01	2.05E-01	2.10E-01	3.46E-01	pCi/g	3/18/2014	485.63	60				03	AC-228	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.53E+00	1.88E-01	2.03E-01	1.59E-01	pCi/g	3/18/2014	485.63	60				03	BI-214	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.30E+01	1.79E+00	1.91E+00	1.08E+00	pCi/g	3/18/2014	485.63	60				03	K-40	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	8.25E-01	1.38E+00	1.38E+00	2.31E+00	pCi/g	3/18/2014	485.63	60				03	PA-231	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.06E+00	1.12E+00	1.12E+00	1.87E+00	pCi/g	3/18/2014	485.63	60				03	PB-210	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	9.35E-01	1.26E-01	1.35E-01	2.54E-01	pCi/g	3/18/2014	485.63	60				03	PB-212	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.49E+00	1.71E-01	1.87E-01	2.58E-01	pCi/g	3/18/2014	485.63	60				03	PB-214	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	8.64E-01	1.69E-01	1.75E-01	1.68E-01	pCi/g	3/18/2014	485.63	60				03	TL-208	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	8.43E-01	2.05E-01	2.10E-01	3.57E-01	pCi/g	3/18/2014	485.63	60				04	AC-228	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.45E+00	1.88E-01	2.03E-01	1.59E-01	pCi/g	3/18/2014	485.63	60				04	BI-214	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.36E+01	1.78E+00	1.91E+00	7.65E-01	pCi/g	3/18/2014	485.63	60				04	K-40	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	-2.60E-01	1.41E+00	1.41E+00	2.28E+00	pCi/g	3/18/2014	485.63	60				04	PA-231	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.64E+00	1.13E+00	1.13E+00	1.57E+00	pCi/g	3/18/2014	485.63	60				04	PB-210	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	9.51E-01	1.32E-01	1.41E-01	2.36E-01	pCi/g	3/18/2014	485.63	60				04	PB-212	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.66E+00	1.92E-01	2.10E-01	2.36E-01	pCi/g	3/18/2014	485.63	60				04	PB-214	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	8.11E-01	1.57E-01	1.62E-01	1.30E-01	pCi/g	3/18/2014	485.63	60				04	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03082**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	1.01E+00	3.24E-01	3.29E-01	6.22E-01	pCi/g	3/18/2014	385.74	60				05	AC-228	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.53E+00	2.22E-01	2.35E-01	2.32E-01	pCi/g	3/18/2014	385.74	60				05	BI-214	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.34E+01	2.01E+00	2.12E+00	1.29E+00	pCi/g	3/18/2014	385.74	60				05	K-40	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	-4.14E-01	1.73E+00	1.73E+00	2.77E+00	pCi/g	3/18/2014	385.74	60				05	PA-231	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.62E+00	1.20E+00	1.20E+00	1.96E+00	pCi/g	3/18/2014	385.74	60				05	PB-210	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	1.11E+00	1.61E-01	1.71E-01	3.10E-01	pCi/g	3/18/2014	385.74	60				05	PB-212	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.18E+00	1.85E-01	1.95E-01	2.68E-01	pCi/g	3/18/2014	385.74	60				05	PB-214	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	7.44E-01	1.78E-01	1.82E-01	1.94E-01	pCi/g	3/18/2014	385.74	60				05	TL-208	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	1.02E+00	2.56E-01	2.61E-01	4.28E-01	pCi/g	3/18/2014	475.51	60				06	AC-228	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.86E+00	2.38E-01	2.56E-01	2.55E-01	pCi/g	3/18/2014	475.51	60				06	BI-214	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.22E+01	1.90E+00	2.00E+00	1.24E+00	pCi/g	3/18/2014	475.51	60				06	K-40	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	-3.79E-01	1.86E+00	1.86E+00	3.14E+00	pCi/g	3/18/2014	475.51	60				06	PA-231	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	2.24E+00	1.29E+00	1.30E+00	2.20E+00	pCi/g	3/18/2014	475.51	60				06	PB-210	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	1.23E+00	1.63E-01	1.75E-01	2.31E-01	pCi/g	3/18/2014	475.51	60				06	PB-212	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.77E+00	2.48E-01	2.64E-01	2.94E-01	pCi/g	3/18/2014	475.51	60				06	PB-214	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	7.17E-01	1.80E-01	1.84E-01	1.64E-01	pCi/g	3/18/2014	475.51	60				06	TL-208	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	6.29E-01	3.76E-01	3.77E-01	6.95E-01	pCi/g	3/18/2014	597.78	60				07	AC-228	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.14E+00	2.87E-01	2.93E-01	4.10E-01	pCi/g	3/18/2014	597.78	60				07	BI-214	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.23E+01	2.26E+00	2.35E+00	1.39E+00	pCi/g	3/18/2014	597.78	60				07	K-40	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	-6.17E-01	1.66E+00	1.66E+00	4.45E+00	pCi/g	3/18/2014	597.78	60				07	PA-231	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.35E+00	1.31E+00	1.31E+00	2.17E+00	pCi/g	3/18/2014	597.78	60				07	PB-210	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	9.56E-01	2.18E-01	2.23E-01	3.96E-01	pCi/g	3/18/2014	597.78	60				07	PB-212	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.37E+00	2.98E-01	3.06E-01	3.54E-01	pCi/g	3/18/2014	597.78	60				07	PB-214	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	8.76E-01	3.95E-01	3.98E-01	5.96E-01	pCi/g	3/18/2014	597.78	60				07	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03082**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	1.36E+00	4.27E-01	4.32E-01	9.11E-01	pCi/g	3/18/2014	528.02	60				08	AC-228	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.28E+00	3.10E-01	3.17E-01	5.08E-01	pCi/g	3/18/2014	528.02	60				08	BI-214	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.97E+01	3.24E+00	3.39E+00	1.89E+00	pCi/g	3/18/2014	528.02	60				08	K-40	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	1.19E-01	1.56E+00	1.56E+00	5.42E+00	pCi/g	3/18/2014	528.02	60				08	PA-231	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	5.46E-01	1.53E+00	1.53E+00	2.27E+00	pCi/g	3/18/2014	528.02	60				08	PB-210	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	9.71E-01	2.24E-01	2.29E-01	4.23E-01	pCi/g	3/18/2014	528.02	60				08	PB-212	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.28E+00	2.73E-01	2.81E-01	5.34E-01	pCi/g	3/18/2014	528.02	60				08	PB-214	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	1.60E+00	5.14E-01	5.21E-01	8.64E-01	pCi/g	3/18/2014	528.02	60				08	TL-208	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	1.44E+00	3.64E-01	3.72E-01	8.11E-01	pCi/g	3/18/2014	256.09	60				09	AC-228	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.57E+00	3.25E-01	3.35E-01	4.80E-01	pCi/g	3/18/2014	256.09	60				09	BI-214	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	2.59E+01	3.83E+00	4.06E+00	1.40E+00	pCi/g	3/18/2014	256.09	60				09	K-40	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	2.59E-01	2.79E+00	2.79E+00	4.88E+00	pCi/g	3/18/2014	256.09	60				09	PA-231	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.97E+00	2.39E+00	2.39E+00	3.99E+00	pCi/g	3/18/2014	256.09	60				09	PB-210	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	1.76E+00	2.52E-01	2.67E-01	3.94E-01	pCi/g	3/18/2014	256.09	60				09	PB-212	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.52E+00	3.29E-01	3.38E-01	5.46E-01	pCi/g	3/18/2014	256.09	60				09	PB-214	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	1.33E+00	3.31E-01	3.38E-01	4.39E-01	pCi/g	3/18/2014	256.09	60				09	TL-208	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	9.83E-01	2.01E-01	2.07E-01	3.49E-01	pCi/g	3/18/2014	438.8	60				10	AC-228	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.31E+00	1.93E-01	2.04E-01	2.72E-01	pCi/g	3/18/2014	438.8	60				10	BI-214	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.61E+01	2.11E+00	2.27E+00	1.15E+00	pCi/g	3/18/2014	438.8	60				10	K-40	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	-7.21E-01	1.38E+00	1.38E+00	2.17E+00	pCi/g	3/18/2014	438.8	60				10	PA-231	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.30E+00	1.37E+00	1.38E+00	2.29E+00	pCi/g	3/18/2014	438.8	60				10	PB-210	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	9.58E-01	1.35E-01	1.44E-01	2.39E-01	pCi/g	3/18/2014	438.8	60				10	PB-212	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.27E+00	1.90E-01	2.00E-01	2.70E-01	pCi/g	3/18/2014	438.8	60				10	PB-214	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	8.15E-01	1.56E-01	1.62E-01	1.44E-01	pCi/g	3/18/2014	438.8	60				10	TL-208	

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Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03082**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	3.25E-01	2.51E-01	2.52E-01	4.63E-01	pCi/g	3/18/2014	325.59	60				11	AC-228	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	8.66E-01	1.78E-01	1.83E-01	3.40E-01	pCi/g	3/18/2014	325.59	60				11	BI-214	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	6.59E+00	1.46E+00	1.50E+00	1.43E+00	pCi/g	3/18/2014	325.59	60				11	K-40	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	-1.59E-01	1.50E+00	1.50E+00	2.47E+00	pCi/g	3/18/2014	325.59	60				11	PA-231	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.11E+00	1.34E+00	1.34E+00	1.87E+00	pCi/g	3/18/2014	325.59	60				11	PB-210	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	2.98E-01	1.52E-01	1.53E-01	2.41E-01	pCi/g	3/18/2014	325.59	60				11	PB-212	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	7.35E-01	1.79E-01	1.82E-01	2.69E-01	pCi/g	3/18/2014	325.59	60				11	PB-214	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	4.19E-01	1.52E-01	1.54E-01	2.30E-01	pCi/g	3/18/2014	325.59	60				11	TL-208	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	1.29E-01	1.99E-01	1.99E-01	3.64E-01	pCi/g	3/18/2014	360.25	60				12	AC-228	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	5.77E-01	1.50E-01	1.53E-01	1.45E-01	pCi/g	3/18/2014	360.25	60				12	BI-214	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	2.50E+00	9.30E-01	9.39E-01	1.03E+00	pCi/g	3/18/2014	360.25	60				12	K-40	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	6.81E-01	1.59E+00	1.59E+00	2.56E+00	pCi/g	3/18/2014	360.25	60				12	PA-231	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	2.88E+00	1.26E+00	1.27E+00	2.24E+00	pCi/g	3/18/2014	360.25	60				12	PB-210	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	2.27E-01	9.94E-02	1.00E-01	2.22E-01	pCi/g	3/18/2014	360.25	60				12	PB-212	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	7.66E-01	1.56E-01	1.61E-01	2.46E-01	pCi/g	3/18/2014	360.25	60				12	PB-214	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	2.56E-01	1.59E-01	1.59E-01	3.08E-01	pCi/g	3/18/2014	360.25	60				12	TL-208	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	4.81E-01	3.27E-01	3.28E-01	5.89E-01	pCi/g	3/18/2014	260.67	60				13	AC-228	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	9.56E-01	1.87E-01	1.94E-01	5.52E-01	pCi/g	3/18/2014	260.67	60				13	BI-214	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	6.68E+00	1.48E+00	1.51E+00	3.16E+00	pCi/g	3/18/2014	260.67	60				13	K-40	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	9.94E-01	2.06E+00	2.06E+00	3.47E+00	pCi/g	3/18/2014	260.67	60				13	PA-231	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	1.03E+00	1.57E+00	1.57E+00	2.14E+00	pCi/g	3/18/2014	260.67	60				13	PB-210	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	4.28E-01	1.66E-01	1.68E-01	2.95E-01	pCi/g	3/18/2014	260.67	60				13	PB-212	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	9.72E-01	2.04E-01	2.10E-01	2.66E-01	pCi/g	3/18/2014	260.67	60				13	PB-214	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	5.24E-01	2.09E-01	2.11E-01	3.69E-01	pCi/g	3/18/2014	260.67	60				13	TL-208	

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Final Report of Analysis

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406 East Walnut Street
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Work Order Details:
SDG: 14-03082
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	8.29E-01	3.66E-01	3.68E-01	8.22E-01	pCi/g	3/18/2014	250.3	60				14	AC-228	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	1.73E+00	3.26E-01	3.38E-01	4.82E-01	pCi/g	3/18/2014	250.3	60				14	BI-214	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	1.73E+01	2.91E+00	3.04E+00	2.02E+00	pCi/g	3/18/2014	250.3	60				14	K-40	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	2.83E-01	2.99E+00	2.99E+00	4.42E+00	pCi/g	3/18/2014	250.3	60				14	PA-231	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	3.76E+00	2.06E+00	2.07E+00	3.58E+00	pCi/g	3/18/2014	250.3	60				14	PB-210	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	9.80E-01	1.94E-01	2.00E-01	3.45E-01	pCi/g	3/18/2014	250.3	60				14	PB-212	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	1.84E+00	2.97E-01	3.11E-01	4.24E-01	pCi/g	3/18/2014	250.3	60				14	PB-214	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	4.36E-01	2.32E-01	2.33E-01	4.50E-01	pCi/g	3/18/2014	250.3	60				14	TL-208	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Actinium-228	LANL ER-130 Modified	1.64E+00	4.86E-01	4.93E-01	1.95E+00	pCi/g	3/18/2014	451.7	60				15	AC-228	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Bismuth-214	LANL ER-130 Modified	3.23E+00	4.90E-01	5.17E-01	1.89E-01	pCi/g	3/18/2014	451.7	60				15	BI-214	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Potassium-40	LANL ER-130 Modified	2.07E+01	3.84E+00	3.99E+00	3.43E+00	pCi/g	3/18/2014	451.7	60				15	K-40	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Protactinium-231	LANL ER-130 Modified	2.37E-01	3.30E+00	3.30E+00	7.59E+00	pCi/g	3/18/2014	451.7	60				15	PA-231	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-210	LANL ER-130 Modified	7.40E-01	2.26E+00	2.26E+00	3.32E+00	pCi/g	3/18/2014	451.7	60				15	PB-210	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-212	LANL ER-130 Modified	1.38E+00	3.17E-01	3.24E-01	6.42E-01	pCi/g	3/18/2014	451.7	60				15	PB-212	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Lead-214	LANL ER-130 Modified	3.84E+00	5.29E-01	5.64E-01	6.14E-01	pCi/g	3/18/2014	451.7	60				15	PB-214	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03082	Thallium-208	LANL ER-130 Modified	1.69E+00	5.86E-01	5.92E-01	8.56E-01	pCi/g	3/18/2014	451.7	60				15	TL-208	
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Actinium-227	EML Th-01 Modified	2.02E-02	2.31E-02	2.32E-02	3.03E-02	pCi/g	3/19/2014	2	170	3.49		18.4	02	AC-227	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Actinium-227	EML Th-01 Modified	4.39E-02	3.60E-02	3.64E-02	3.55E-02	pCi/g	3/19/2014	2.102	170	6.49		18.7	03	AC-227	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Actinium-227	EML Th-01 Modified	5.51E-02	4.30E-02	4.36E-02	3.37E-02	pCi/g	3/19/2014	2.102	170	6.83		17.7	04	AC-227	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Actinium-227	EML Th-01 Modified	4.88E-02	4.77E-02	4.81E-02	5.85E-02	pCi/g	3/19/2014	2.014	170	5		16.9	05	AC-227	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03082	Actinium-227	EML Th-01 Modified	2.26E-01	9.99E-02	1.04E-01	4.85E-02	pCi/g	3/19/2014	2.08	170	24.5		17.5	06	AC-227	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	7.12E-02	6.55E-02	6.61E-02	8.31E-02	pCi/g	3/19/2014	2.14	170	6.3		17.4	07	AC-227	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	5.37E-02	4.18E-02	4.23E-02	4.53E-02	pCi/g	3/19/2014	2.198	170	7.81		18.5	08	AC-227	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	5.53E-02	4.51E-02	4.57E-02	5.26E-02	pCi/g	3/19/2014	2.066	170	7.47		19.2	09	AC-227	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	9.71E-02	5.46E-02	5.59E-02	4.11E-02	pCi/g	3/19/2014	2.062	170	14.1		20.1	10	AC-227	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	2.49E-01	1.58E-01	1.61E-01	1.14E-01	pCi/g	3/19/2014	2.124	170	12.3		19.3	11	AC-227	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	5.30E-02	5.28E-02	5.32E-02	7.32E-02	pCi/g	3/19/2014	2.064	170	5.79		18.6	12	AC-227	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	5.97E-02	5.68E-02	5.73E-02	7.76E-02	pCi/g	3/19/2014	2.048	170	6.45		18.3	13	AC-227	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	1.47E-01	9.10E-02	9.28E-02	6.01E-02	pCi/g	3/19/2014	2.072	170	11.7		14.3	14	AC-227	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Actinium-227	EML Th-01 Modified	1.16E-01	5.87E-02	6.04E-02	4.92E-02	pCi/g	3/19/2014	2.144	170	18.8		16.8	15	AC-227	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-03082
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-230	EML Th-01 Modified	5.44E+00	1.47E-01			pCi/g	3/19/2014	1	170	357		18.7	01	TH-230	5.4351
14-03082-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-230	EML Th-01 Modified	5.63E+00	9.29E-01	1.16E+00	8.26E-02	pCi/g	3/19/2014	1	170	357		18.7	01	TH-230	5.4351
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-230	EML Th-01 Modified	2.63E-02	2.52E-02	2.54E-02	2.70E-02	pCi/g	3/19/2014	2	170	4.66		18.4	02	TH-230	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-230	EML Th-01 Modified	3.32E-01	1.07E-01	1.14E-01	3.72E-02	pCi/g	3/19/2014	2.102	170	50.3		18.7	03	TH-230	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-230	EML Th-01 Modified	3.93E-01	1.29E-01	1.38E-01	3.29E-02	pCi/g	3/19/2014	2.102	170	49.8		17.7	04	TH-230	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-230	EML Th-01 Modified	4.27E-01	1.49E-01	1.58E-01	3.98E-02	pCi/g	3/19/2014	2.014	170	44.8		16.9	05	TH-230	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03082	Thorium-230	EML Th-01 Modified	9.41E+00	1.83E+00	2.17E+00	3.76E-02	pCi/g	3/19/2014	2.08	170	1040		17.5	06	TH-230	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	6.58E-01	2.17E-01	2.32E-01	7.57E-02	pCi/g	3/19/2014	2.14	170	59.6		17.4	07	TH-230	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	3.80E-01	1.19E-01	1.28E-01	4.60E-02	pCi/g	3/19/2014	2.198	170	56.6		18.5	08	TH-230	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	6.49E-01	1.74E-01	1.92E-01	4.76E-02	pCi/g	3/19/2014	2.066	170	89.8		19.2	09	TH-230	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	3.03E+00	5.65E-01	6.78E-01	4.02E-02	pCi/g	3/19/2014	2.062	170	453		20.1	10	TH-230	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	4.20E+00	1.26E+00	1.37E+00	1.03E-01	pCi/g	3/19/2014	2.124	170	213		19.3	11	TH-230	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	8.05E-01	2.23E-01	2.45E-01	5.35E-02	pCi/g	3/19/2014	2.064	170	90.2		18.6	12	TH-230	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	3.42E+00	7.22E-01	8.37E-01	6.84E-02	pCi/g	3/19/2014	2.048	170	379		18.3	13	TH-230	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	1.04E+01	2.32E+00	2.65E+00	7.34E-02	pCi/g	3/19/2014	2.072	170	847		14.3	14	TH-230	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-230	EML Th-01 Modified	1.68E+01	2.72E+00	3.42E+00	3.96E-02	pCi/g	3/19/2014	2.144	170	2790		16.8	15	TH-230	
14-03082-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-232	EML Th-01 Modified	4.80E+00	1.73E-01			pCi/g	3/19/2014	1	170	318		18.7	01	TH-232	4.8001
14-03082-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-232	EML Th-01 Modified	4.99E+00	8.44E-01	9.52E-01	6.56E-02	pCi/g	3/19/2014	1	170	318		18.7	01	TH-232	4.8001
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-232	EML Th-01 Modified	1.03E-02	1.58E-02	1.58E-02	2.35E-02	pCi/g	3/19/2014	2	170	1.83		18.4	02	TH-232	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-232	EML Th-01 Modified	7.02E-02	4.44E-02	4.48E-02	3.15E-02	pCi/g	3/19/2014	2.102	170	10.7		18.7	03	TH-232	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-232	EML Th-01 Modified	2.12E-01	8.97E-02	9.16E-02	4.72E-02	pCi/g	3/19/2014	2.102	170	27		17.7	04	TH-232	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Thorium-232	EML Th-01 Modified	1.70E-01	8.53E-02	8.66E-02	3.97E-02	pCi/g	3/19/2014	2.014	170	17.8		16.9	05	TH-232	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03082	Thorium-232	EML Th-01 Modified	3.85E-01	1.36E-01	1.40E-01	3.76E-02	pCi/g	3/19/2014	2.08	170	42.8		17.5	06	TH-232	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	3.36E-01	1.39E-01	1.42E-01	5.78E-02	pCi/g	3/19/2014	2.14	170	30.5		17.4	07	TH-232	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	3.10E-01	1.04E-01	1.07E-01	3.78E-02	pCi/g	3/19/2014	2.198	170	46.3		18.5	08	TH-232	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	5.55E-01	1.56E-01	1.64E-01	4.55E-02	pCi/g	3/19/2014	2.066	170	77		19.2	09	TH-232	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	4.04E-01	1.22E-01	1.27E-01	3.51E-02	pCi/g	3/19/2014	2.062	170	60.5		20.1	10	TH-232	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	4.62E-01	2.26E-01	2.30E-01	1.03E-01	pCi/g	3/19/2014	2.124	170	23.5		19.3	11	TH-232	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	1.29E-01	7.19E-02	7.28E-02	4.68E-02	pCi/g	3/19/2014	2.064	170	14.5		18.6	12	TH-232	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	1.49E-01	7.80E-02	7.91E-02	4.73E-02	pCi/g	3/19/2014	2.048	170	16.5		18.3	13	TH-232	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	1.88E-01	1.04E-01	1.06E-01	6.91E-02	pCi/g	3/19/2014	2.072	170	15.3		14.3	14	TH-232	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	3/22/2014	14-03082	Thorium-232	EML Th-01 Modified	2.58E-01	8.81E-02	9.09E-02	3.78E-02	pCi/g	3/19/2014	2.144	170	43		16.8	15	TH-232	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-03082
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	8.02E+00	2.89E-01			pCi/g	3/19/2014	1	170	611		17.4	01	U-234	8.0242
14-03082-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	7.84E+00	1.05E+00	1.19E+00	8.80E-02	pCi/g	3/19/2014	1	170	611		17.4	01	U-234	8.0242
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	1.54E-02	3.32E-02	3.33E-02	6.46E-02	pCi/g	3/19/2014	2	170	1.64		18.5	02	U-234	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	6.19E-01	1.24E-01	1.32E-01	3.45E-02	pCi/g	3/19/2014	2.102	170.02	127		19.2	03	U-234	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	6.03E-01	1.22E-01	1.30E-01	2.93E-02	pCi/g	3/19/2014	2.102	170	123		20.1	04	U-234	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	6.12E-01	1.25E-01	1.32E-01	2.42E-02	pCi/g	3/19/2014	2.014	170	121		19.3	05	U-234	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	5.23E-01	1.19E-01	1.25E-01	4.16E-02	pCi/g	3/19/2014	2.08	170	95.1		18.6	06	U-234	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	6.21E-01	1.46E-01	1.52E-01	5.05E-02	pCi/g	3/19/2014	2.14	170	93.1		18.3	07	U-234	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	6.00E-01	1.58E-01	1.64E-01	4.34E-02	pCi/g	3/19/2014	2.198	170	72.5		14.3	08	U-234	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	3.56E-01	9.55E-02	9.88E-02	2.36E-02	pCi/g	3/19/2014	2.066	170	62.8		17.5	09	U-234	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	4.80E-01	1.13E-01	1.18E-01	2.34E-02	pCi/g	3/19/2014	2.062	170	85.8		17	10	U-234	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	4.77E-01	1.09E-01	1.14E-01	3.23E-02	pCi/g	3/19/2014	2.124	170	93		16.3	11	U-234	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	7.44E-01	1.61E-01	1.69E-01	2.78E-02	pCi/g	3/19/2014	2.064	170	112		15.9	12	U-234	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	3.52E-01	1.05E-01	1.08E-01	3.87E-02	pCi/g	3/19/2014	2.048	170	51.3		18.5	13	U-234	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	4.15E-01	1.01E-01	1.05E-01	2.52E-02	pCi/g	3/19/2014	2.072	170	78.7		18.2	14	U-234	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-234	EML U-02 Modified	4.94E-01	1.12E-01	1.17E-01	3.11E-02	pCi/g	3/19/2014	2.144	170	95.2		17.9	15	U-234	
14-03082-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	6.22E-01	2.08E-01	2.12E-01	8.93E-02	pCi/g	3/19/2014	1	170	39.3		17.4	01	U-235	
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	7.44E-03	3.40E-02	3.40E-02	7.97E-02	pCi/g	3/19/2014	2	170	0.64		18.5	02	U-235	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	1.89E-02	2.40E-02	2.40E-02	3.59E-02	pCi/g	3/19/2014	2.102	170.02	3.15		19.2	03	U-235	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	5.23E-02	3.60E-02	3.62E-02	2.89E-02	pCi/g	3/19/2014	2.102	170	8.66		20.1	04	U-235	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	6.15E-02	3.93E-02	3.95E-02	2.61E-02	pCi/g	3/19/2014	2.014	170	9.83		19.3	05	U-235	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	4.29E-02	3.57E-02	3.59E-02	3.83E-02	pCi/g	3/19/2014	2.08	170	6.32		18.6	06	U-235	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	3.27E-02	3.69E-02	3.69E-02	5.18E-02	pCi/g	3/19/2014	2.14	170	3.98		18.3	07	U-235	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	2.54E-02	3.53E-02	3.54E-02	5.36E-02	pCi/g	3/19/2014	2.198	170	2.49		14.3	08	U-235	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	2.67E-02	2.76E-02	2.77E-02	2.91E-02	pCi/g	3/19/2014	2.066	170	3.83		17.5	09	U-235	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	1.95E-02	2.36E-02	2.37E-02	2.88E-02	pCi/g	3/19/2014	2.062	170	2.83		17	10	U-235	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	3.80E-02	3.30E-02	3.31E-02	3.79E-02	pCi/g	3/19/2014	2.124	170	6		16.3	11	U-235	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	5.60E-02	4.31E-02	4.33E-02	3.42E-02	pCi/g	3/19/2014	2.064	170	6.83		15.9	12	U-235	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	5.49E-02	4.46E-02	4.47E-02	4.44E-02	pCi/g	3/19/2014	2.048	170	6.49		18.5	13	U-235	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	4.55E-02	3.64E-02	3.65E-02	3.90E-02	pCi/g	3/19/2014	2.072	170	7		18.2	14	U-235	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-235	EML U-02 Modified	4.26E-02	3.36E-02	3.38E-02	3.06E-02	pCi/g	3/19/2014	2.144	170	6.66		17.9	15	U-235	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-03082
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03082-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	7.82E+00	2.82E-01			pCi/g	3/19/2014	1	170	583		17.4	01	U-238	7.8216
14-03082-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	7.45E+00	1.01E+00	1.14E+00	7.21E-02	pCi/g	3/19/2014	1	170	583		17.4	01	U-238	7.8216
14-03082-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	4.60E-03	1.92E-02	1.92E-02	4.92E-02	pCi/g	3/19/2014	2	170	0.49		18.5	02	U-238	
14-03082-03	DUP	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	5.42E-01	1.14E-01	1.20E-01	2.90E-02	pCi/g	3/19/2014	2.102	170.02	112		19.2	03	U-238	
14-03082-04	DO	FEEBRIS1C-6TI.022-023GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	5.35E-01	1.13E-01	1.20E-01	2.33E-02	pCi/g	3/19/2014	2.102	170	110		20.1	04	U-238	
14-03082-05	TRG	FEEBRIS1C-12.049-050GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	4.79E-01	1.07E-01	1.13E-01	2.11E-02	pCi/g	3/19/2014	2.014	170	94.8		19.3	05	U-238	
14-03082-06	TRG	FEEBRIS1C-12B.054-055GP	03/12/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	6.08E-01	1.30E-01	1.37E-01	3.28E-02	pCi/g	3/19/2014	2.08	170	111		18.6	06	U-238	
14-03082-07	TRG	FEEBRIS1C-12B.053-054GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	7.23E-01	1.59E-01	1.67E-01	4.38E-02	pCi/g	3/19/2014	2.14	170	109		18.3	07	U-238	
14-03082-08	TRG	FEEBRISWL-119.034-035GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	5.77E-01	1.54E-01	1.60E-01	4.94E-02	pCi/g	3/19/2014	2.198	170	70		14.3	08	U-238	
14-03082-09	TRG	FEEBRISWL-119B.038-039GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	3.49E-01	9.49E-02	9.81E-02	3.38E-02	pCi/g	3/19/2014	2.066	170	62		17.5	09	U-238	
14-03082-10	TRG	FEEBRISWL-119C.043-044GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	5.27E-01	1.20E-01	1.25E-01	2.92E-02	pCi/g	3/19/2014	2.062	170	94.5		17	10	U-238	
14-03082-11	TRG	FEEBRISWL-119C.045-046GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	3.77E-01	9.42E-02	9.79E-02	2.13E-02	pCi/g	3/19/2014	2.124	170	73.8		16.3	11	U-238	
14-03082-12	TRG	FEEBRIS08-1B.029-030GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	5.01E-01	1.26E-01	1.31E-01	3.17E-02	pCi/g	3/19/2014	2.064	170	75.7		15.9	12	U-238	
14-03082-13	TRG	FEEBRIS08-1B.028-029GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	3.70E-01	1.08E-01	1.11E-01	4.09E-02	pCi/g	3/19/2014	2.048	170	54.2		18.5	13	U-238	
14-03082-14	TRG	FEEBRIS08-1B.028-029GP-D	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	4.30E-01	1.03E-01	1.07E-01	2.19E-02	pCi/g	3/19/2014	2.072	170	81.8		18.2	14	U-238	
14-03082-15	TRG	FEEBRIS02-3.034-035GP	03/13/14 00:00	3/17/2014	3/21/2014	14-03082	Uranium-238	EML U-02 Modified	4.45E-01	1.07E-01	1.11E-01	5.04E-02	pCi/g	3/19/2014	2.144	170	86.1		17.9	15	U-238	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03083**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03083-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	3/18/2014	1	30				01	CO-60	130.4300
14-03083-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	3/18/2014	1	30				01	CS-137	82.9600
14-03083-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Cobalt-60	LANL ER-130 Modified	1.36E+02	8.42E+00	1.09E+01	7.55E-01	pCi/g	3/18/2014	1	30				01	CO-60	130.4300
14-03083-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Cesium-137	LANL ER-130 Modified	8.89E+01	9.44E+00	1.05E+01	9.00E-01	pCi/g	3/18/2014	1	30				01	CS-137	82.9600
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	-1.74E-02	1.28E-01	1.28E-01	1.96E-01	pCi/g	3/18/2014	1	60				02	AC-228	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	-4.75E-02	9.06E-02	9.06E-02	1.52E-01	pCi/g	3/18/2014	1	60				02	BI-214	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	3.83E-02	4.22E-01	4.22E-01	7.56E-01	pCi/g	3/18/2014	1	60				02	K-40	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	-2.63E-02	1.36E+00	1.36E+00	1.93E+00	pCi/g	3/18/2014	1	60				02	PA-231	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	6.09E-01	4.77E-01	4.78E-01	8.03E-01	pCi/g	3/18/2014	1	60				02	PB-210	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	5.14E-02	6.21E-02	6.22E-02	9.72E-02	pCi/g	3/18/2014	1	60				02	PB-212	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	1.04E-02	9.02E-02	9.02E-02	1.29E-01	pCi/g	3/18/2014	1	60				02	PB-214	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	0.00E+00	1.14E-01	1.14E-01	1.91E-01	pCi/g	3/18/2014	1	60				02	TL-208	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	1.37E+00	8.21E-01	8.24E-01	1.45E+00	pCi/g	3/18/2014	147.64	60				03	AC-228	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	2.15E+01	1.79E+00	2.10E+00	9.76E-01	pCi/g	3/18/2014	147.64	60				03	BI-214	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	3.32E+00	2.54E+00	2.54E+00	4.05E+00	pCi/g	3/18/2014	147.64	60				03	K-40	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	3.03E+00	7.03E+00	7.03E+00	1.12E+01	pCi/g	3/18/2014	147.64	60				03	PA-231	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	3.64E+01	7.14E+00	7.38E+00	9.93E+00	pCi/g	3/18/2014	147.64	60				03	PB-210	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	-6.35E+00	8.93E-01	9.50E-01	6.57E-01	pCi/g	3/18/2014	147.64	60				03	PB-212	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	2.71E+01	1.88E+00	2.34E+00	1.11E+00	pCi/g	3/18/2014	147.64	60				03	PB-214	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	3.28E-01	2.86E-01	2.87E-01	5.07E-01	pCi/g	3/18/2014	147.64	60				03	TL-208	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	4.53E-01	7.79E-01	7.79E-01	1.25E+00	pCi/g	3/18/2014	147.64	60				04	AC-228	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	2.11E+01	1.76E+00	2.06E+00	1.02E+00	pCi/g	3/18/2014	147.64	60				04	BI-214	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	3.93E+00	2.80E+00	2.80E+00	4.44E+00	pCi/g	3/18/2014	147.64	60				04	K-40	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	2.86E+00	6.79E+00	6.79E+00	1.10E+01	pCi/g	3/18/2014	147.64	60				04	PA-231	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	4.33E+01	6.04E+00	6.44E+00	1.20E+01	pCi/g	3/18/2014	147.64	60				04	PB-210	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	6.48E-01	3.59E-01	3.61E-01	9.25E-01	pCi/g	3/18/2014	147.64	60				04	PB-212	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	2.71E+01	1.87E+00	2.33E+00	1.15E+00	pCi/g	3/18/2014	147.64	60				04	PB-214	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	7.06E-01	5.86E-01	5.87E-01	7.97E-01	pCi/g	3/18/2014	147.64	60				04	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03083**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	7.87E-01	5.80E-01	5.81E-01	9.80E-01	pCi/g	3/18/2014	289.27	60				05	AC-228	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	1.38E+01	1.07E+00	1.28E+00	5.20E-01	pCi/g	3/18/2014	289.27	60				05	BI-214	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	1.20E+01	3.18E+00	3.24E+00	4.14E+00	pCi/g	3/18/2014	289.27	60				05	K-40	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	1.90E+00	2.11E+00	2.11E+00	8.32E+00	pCi/g	3/18/2014	289.27	60				05	PA-231	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	2.63E+01	4.42E+00	4.62E+00	8.80E+00	pCi/g	3/18/2014	289.27	60				05	PB-210	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	9.21E-01	2.15E-01	2.20E-01	7.25E-01	pCi/g	3/18/2014	289.27	60				05	PB-212	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	1.34E+01	1.05E+00	1.25E+00	6.22E-01	pCi/g	3/18/2014	289.27	60				05	PB-214	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	7.27E-01	2.62E-01	2.65E-01	2.70E-01	pCi/g	3/18/2014	289.27	60				05	TL-208	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	1.48E+00	6.46E-01	6.50E-01	1.29E+00	pCi/g	3/18/2014	345.28	60				06	AC-228	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	1.46E+00	3.80E-01	3.87E-01	6.05E-01	pCi/g	3/18/2014	345.28	60				06	BI-214	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	1.61E+01	3.35E+00	3.45E+00	2.41E+00	pCi/g	3/18/2014	345.28	60				06	K-40	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	-7.49E-01	2.65E+00	2.65E+00	7.00E+00	pCi/g	3/18/2014	345.28	60				06	PA-231	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	2.09E+00	2.52E+00	2.52E+00	4.23E+00	pCi/g	3/18/2014	345.28	60				06	PB-210	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	1.10E+00	2.71E-01	2.76E-01	6.34E-01	pCi/g	3/18/2014	345.28	60				06	PB-212	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	2.01E+00	4.31E-01	4.43E-01	6.21E-01	pCi/g	3/18/2014	345.28	60				06	PB-214	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	8.69E-01	5.17E-01	5.19E-01	8.00E-01	pCi/g	3/18/2014	345.28	60				06	TL-208	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	1.27E+00	3.19E-01	3.26E-01	5.48E-01	pCi/g	3/18/2014	419.88	60				07	AC-228	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	1.45E+00	2.46E-01	2.57E-01	3.49E-01	pCi/g	3/18/2014	419.88	60				07	BI-214	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	1.88E+01	2.75E+00	2.92E+00	1.58E+00	pCi/g	3/18/2014	419.88	60				07	K-40	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	1.20E+00	2.25E+00	2.25E+00	3.45E+00	pCi/g	3/18/2014	419.88	60				07	PA-231	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	2.87E+00	1.47E+00	1.47E+00	2.50E+00	pCi/g	3/18/2014	419.88	60				07	PB-210	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	1.47E+00	1.93E-01	2.07E-01	2.85E-01	pCi/g	3/18/2014	419.88	60				07	PB-212	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	1.62E+00	2.23E-01	2.38E-01	2.87E-01	pCi/g	3/18/2014	419.88	60				07	PB-214	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	1.33E+00	2.25E-01	2.36E-01	1.86E-01	pCi/g	3/18/2014	419.88	60				07	TL-208	

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Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03083**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	2.26E-01	2.88E-01	2.88E-01	5.35E-01	pCi/g	3/18/2014	190.07	60				08	AC-228	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	8.55E-01	2.39E-01	2.43E-01	3.35E-01	pCi/g	3/18/2014	190.07	60				08	BI-214	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	7.69E+00	2.02E+00	2.06E+00	2.21E+00	pCi/g	3/18/2014	190.07	60				08	K-40	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	1.33E+00	2.15E+00	2.15E+00	3.85E+00	pCi/g	3/18/2014	190.07	60				08	PA-231	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	2.74E+00	2.17E+00	2.17E+00	3.56E+00	pCi/g	3/18/2014	190.07	60				08	PB-210	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	4.55E-01	1.48E-01	1.50E-01	3.38E-01	pCi/g	3/18/2014	190.07	60				08	PB-212	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	7.89E-01	2.33E-01	2.36E-01	4.37E-01	pCi/g	3/18/2014	190.07	60				08	PB-214	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	4.76E-01	2.40E-01	2.41E-01	5.34E-01	pCi/g	3/18/2014	190.07	60				08	TL-208	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	1.16E+00	5.12E-01	5.16E-01	9.02E-01	pCi/g	3/18/2014	466.16	60				09	AC-228	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	2.17E+00	3.26E-01	3.44E-01	1.83E-01	pCi/g	3/18/2014	466.16	60				09	BI-214	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	1.46E+01	2.88E+00	2.98E+00	2.24E+00	pCi/g	3/18/2014	466.16	60				09	K-40	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	5.76E-01	4.32E+00	4.32E+00	5.94E+00	pCi/g	3/18/2014	466.16	60				09	PA-231	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	2.09E+00	1.76E+00	1.77E+00	2.92E+00	pCi/g	3/18/2014	466.16	60				09	PB-210	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	1.32E+00	2.80E-01	2.88E-01	4.64E-01	pCi/g	3/18/2014	466.16	60				09	PB-212	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	1.95E+00	3.09E-01	3.25E-01	4.36E-01	pCi/g	3/18/2014	466.16	60				09	PB-214	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	9.28E-01	2.91E-01	2.95E-01	2.84E-01	pCi/g	3/18/2014	466.16	60				09	TL-208	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	6.54E-01	1.84E-01	1.87E-01	4.28E-01	pCi/g	3/18/2014	474.73	60				10	AC-228	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	1.74E+00	2.17E-01	2.34E-01	2.00E-01	pCi/g	3/18/2014	474.73	60				10	BI-214	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	6.30E+00	1.08E+00	1.12E+00	6.66E-01	pCi/g	3/18/2014	474.73	60				10	K-40	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	2.71E-01	1.37E+00	1.37E+00	2.25E+00	pCi/g	3/18/2014	474.73	60				10	PA-231	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	1.02E+00	1.14E+00	1.14E+00	1.91E+00	pCi/g	3/18/2014	474.73	60				10	PB-210	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	4.42E-01	9.64E-02	9.90E-02	2.67E-01	pCi/g	3/18/2014	474.73	60				10	PB-212	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	1.83E+00	2.13E-01	2.32E-01	2.36E-01	pCi/g	3/18/2014	474.73	60				10	PB-214	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	4.32E-01	1.26E-01	1.28E-01	1.33E-01	pCi/g	3/18/2014	474.73	60				10	TL-208	

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Work Order Details:

SDG:	**14-03083**
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Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	6.58E-01	2.42E-01	2.44E-01	4.94E-01	pCi/g	3/18/2014	369.95	60				11	AC-228	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	1.20E+00	1.77E-01	1.87E-01	2.35E-01	pCi/g	3/18/2014	369.95	60				11	BI-214	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	6.60E+00	1.24E+00	1.28E+00	8.09E-01	pCi/g	3/18/2014	369.95	60				11	K-40	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	-1.58E+00	1.70E+00	1.70E+00	2.59E+00	pCi/g	3/18/2014	369.95	60				11	PA-231	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	1.54E+00	1.32E+00	1.33E+00	2.19E+00	pCi/g	3/18/2014	369.95	60				11	PB-210	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	4.89E-01	1.10E-01	1.13E-01	2.45E-01	pCi/g	3/18/2014	369.95	60				11	PB-212	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	1.02E+00	1.47E-01	1.56E-01	1.73E-01	pCi/g	3/18/2014	369.95	60				11	PB-214	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	5.24E-01	1.65E-01	1.67E-01	2.02E-01	pCi/g	3/18/2014	369.95	60				11	TL-208	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Actinium-228	LANL ER-130 Modified	1.25E+00	6.62E-01	6.65E-01	1.23E+00	pCi/g	3/18/2014	412.5	60				12	AC-228	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Bismuth-214	LANL ER-130 Modified	3.10E+01	1.89E+00	2.47E+00	1.04E+00	pCi/g	3/18/2014	412.5	60				12	BI-214	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Potassium-40	LANL ER-130 Modified	1.24E+01	2.98E+00	3.04E+00	3.91E+00	pCi/g	3/18/2014	412.5	60				12	K-40	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Protactinium-231	LANL ER-130 Modified	1.67E+01	7.48E+00	7.53E+00	1.38E+01	pCi/g	3/18/2014	412.5	60				12	PA-231	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-210	LANL ER-130 Modified	3.74E+01	6.26E+00	6.55E+00	7.60E+00	pCi/g	3/18/2014	412.5	60				12	PB-210	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-212	LANL ER-130 Modified	1.51E+00	3.56E-01	3.64E-01	9.82E-01	pCi/g	3/18/2014	412.5	60				12	PB-212	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Lead-214	LANL ER-130 Modified	3.39E+01	2.32E+00	2.90E+00	8.49E-01	pCi/g	3/18/2014	412.5	60				12	PB-214	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	4/17/2014	14-03083	Thallium-208	LANL ER-130 Modified	8.94E-01	2.28E-01	2.33E-01	1.89E-01	pCi/g	3/18/2014	412.5	60				12	TL-208	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	4.11E-02	3.81E-02	3.84E-02	3.55E-02	pCi/g	3/20/2014	2	170	4.83		16.3	02	AC-227	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	1.98E+00	3.78E-01	4.51E-01	2.87E-02	pCi/g	3/20/2014	2.208	170	330		15.9	03	AC-227	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	1.76E+00	3.09E-01	3.78E-01	3.13E-02	pCi/g	3/20/2014	2.208	170	371		18.5	04	AC-227	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	1.16E+00	2.72E-01	3.07E-01	4.68E-02	pCi/g	3/20/2014	2.062	170	148		18.2	05	AC-227	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	4.95E-02	5.91E-02	5.94E-02	8.57E-02	pCi/g	3/20/2014	2.088	170	3.81		17.9	06	AC-227	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	4.93E-02	3.95E-02	3.99E-02	3.54E-02	pCi/g	3/20/2014	2.114	170	6.66		16.9	07	AC-227	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	5.09E-02	4.07E-02	4.12E-02	3.65E-02	pCi/g	3/20/2014	2.23	170	6.66		18.7	08	AC-227	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	6.71E-02	4.11E-02	4.19E-02	3.06E-02	pCi/g	3/20/2014	2.038	170	11.5		18.4	09	AC-227	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	2.60E-02	3.63E-02	3.64E-02	5.48E-02	pCi/g	3/20/2014	2.014	170	2.49		18.7	10	AC-227	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	5.37E-02	5.64E-02	5.68E-02	5.85E-02	pCi/g	3/20/2014	2.016	170	3.83		17.7	11	AC-227	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Actinium-227	EML Th-01 Modified	2.67E+00	6.15E-01	6.98E-01	6.28E-02	pCi/g	3/20/2014	2.038	170	255		16.9	12	AC-227	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-03083
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03083-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	5.41E+00	1.46E-01			pCi/g	3/20/2014	1	170	387		17	01	TH-230	5.4139
14-03083-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	5.96E+00	9.63E-01	1.21E+00	6.43E-02	pCi/g	3/20/2014	1	170	387		17	01	TH-230	5.4139
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	1.77E-01	8.46E-02	8.74E-02	6.11E-02	pCi/g	3/20/2014	2	170	21.3		16.3	02	TH-230	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	3.04E+02	4.80E+01	6.10E+01	2.45E-02	pCi/g	3/20/2014	2.208	170	51900		15.9	03	TH-230	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	2.82E+02	4.02E+01	5.32E+01	2.78E-02	pCi/g	3/20/2014	2.208	170	60700		18.5	04	TH-230	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	2.06E+02	3.51E+01	4.34E+01	4.00E-02	pCi/g	3/20/2014	2.062	170	27000		18.2	05	TH-230	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	1.74E+00	4.76E-01	5.22E-01	7.99E-02	pCi/g	3/20/2014	2.088	170	137		17.9	06	TH-230	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	1.09E+00	2.53E-01	2.87E-01	3.02E-02	pCi/g	3/20/2014	2.114	170	151		16.9	07	TH-230	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	6.37E-01	1.75E-01	1.92E-01	3.91E-02	pCi/g	3/20/2014	2.23	170	85.5		18.7	08	TH-230	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	2.47E+00	4.37E-01	5.33E-01	2.72E-02	pCi/g	3/20/2014	2.038	170	433		18.4	09	TH-230	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	4.45E+00	9.52E-01	1.10E+00	5.74E-02	pCi/g	3/20/2014	2.014	170	437		18.7	10	TH-230	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	2.03E+00	5.56E-01	6.10E-01	5.70E-02	pCi/g	3/20/2014	2.016	170	149		17.7	11	TH-230	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-230	EML Th-01 Modified	3.99E+02	7.77E+01	9.20E+01	4.27E-02	pCi/g	3/20/2014	2.038	170	39000		16.9	12	TH-230	
14-03083-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	4.83E+00	1.74E-01			pCi/g	3/20/2014	1	170	273		17	01	TH-232	4.8328
14-03083-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	4.19E+00	7.30E-01	8.18E-01	6.41E-02	pCi/g	3/20/2014	1	170	273		17	01	TH-232	4.8328
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	3.18E-02	3.31E-02	3.32E-02	3.46E-02	pCi/g	3/20/2014	2	170	3.83		16.3	02	TH-232	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	1.98E+00	3.77E-01	4.15E-01	2.80E-02	pCi/g	3/20/2014	2.208	170	339		15.9	03	TH-232	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	2.60E+00	4.29E-01	4.86E-01	2.43E-02	pCi/g	3/20/2014	2.208	170	561		18.5	04	TH-232	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	1.39E+00	3.11E-01	3.34E-01	3.99E-02	pCi/g	3/20/2014	2.062	170	182		18.2	05	TH-232	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	1.40E-01	1.03E-01	1.04E-01	1.23E-01	pCi/g	3/20/2014	2.088	170	11.1		17.9	06	TH-232	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	5.36E-01	1.52E-01	1.60E-01	4.07E-02	pCi/g	3/20/2014	2.114	170	74.3		16.9	07	TH-232	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	6.31E-02	4.53E-02	4.56E-02	3.90E-02	pCi/g	3/20/2014	2.23	170	8.49		18.7	08	TH-232	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	2.66E-01	8.63E-02	8.94E-02	2.37E-02	pCi/g	3/20/2014	2.038	170	46.8		18.4	09	TH-232	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	7.78E-02	5.85E-02	5.89E-02	4.86E-02	pCi/g	3/20/2014	2.014	170	7.66		18.7	10	TH-232	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	1.77E-01	1.07E-01	1.09E-01	8.18E-02	pCi/g	3/20/2014	2.016	170	13		17.7	11	TH-232	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Thorium-232	EML Th-01 Modified	2.19E+00	5.18E-01	5.53E-01	4.26E-02	pCi/g	3/20/2014	2.038	170	215		16.9	12	TH-232	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-03083**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03083-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	8.07E+00	2.90E-01			pCi/g	3/20/2014	1	170.02	600		17.4	01	U-234	8.0687
14-03083-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	7.37E+00	9.81E-01	1.11E+00	8.43E-02	pCi/g	3/20/2014	1	170.02	600		17.4	01	U-234	8.0687
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	1.99E-02	2.73E-02	2.73E-02	4.44E-02	pCi/g	3/20/2014	2	170	3.3		18.5	02	U-234	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	1.80E+00	2.77E-01	3.05E-01	3.73E-02	pCi/g	3/20/2014	2.208	170	319		19.2	03	U-234	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	1.60E+00	2.37E-01	2.63E-01	2.05E-02	pCi/g	3/20/2014	2.208	170.02	326		20.1	04	U-234	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	8.18E-01	1.59E-01	1.70E-01	3.01E-02	pCi/g	3/20/2014	2.062	170.02	142		19.3	05	U-234	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	5.35E-01	1.32E-01	1.37E-01	3.76E-02	pCi/g	3/20/2014	2.088	170.02	80.3		18.6	06	U-234	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	5.27E-01	1.19E-01	1.25E-01	3.84E-02	pCi/g	3/20/2014	2.114	170.02	97.5		18.3	07	U-234	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	2.24E-01	7.56E-02	7.72E-02	3.29E-02	pCi/g	3/20/2014	2.23	170.02	38.3		14.3	08	U-234	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	4.67E-01	1.21E-01	1.25E-01	4.47E-02	pCi/g	3/20/2014	2.038	170	71.6		16.8	09	U-234	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	8.80E-01	2.48E-01	2.56E-01	7.37E-02	pCi/g	3/20/2014	2.014	170	67.3		17.7	10	U-234	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	5.47E-01	1.92E-01	1.96E-01	6.76E-02	pCi/g	3/20/2014	2.016	170.02	38.7		18.8	11	U-234	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-234	EML U-02 Modified	1.83E+00	3.14E-01	3.40E-01	5.35E-02	pCi/g	3/20/2014	2.038	170	242		13.9	12	U-234	
14-03083-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	4.62E-01	1.73E-01	1.76E-01	7.96E-02	pCi/g	3/20/2014	1	170.02	30.5		17.4	01	U-235	
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	6.45E-02	4.45E-02	4.47E-02	3.56E-02	pCi/g	3/20/2014	2	170	8.66		18.5	02	U-235	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	9.88E-02	5.43E-02	5.47E-02	4.18E-02	pCi/g	3/20/2014	2.208	170	14.1		19.2	03	U-235	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	1.66E-01	6.50E-02	6.61E-02	3.17E-02	pCi/g	3/20/2014	2.208	170.02	27.5		20.1	04	U-235	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	3.42E-02	3.13E-02	3.14E-02	2.96E-02	pCi/g	3/20/2014	2.062	170.02	4.83		19.3	05	U-235	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	1.22E-02	2.33E-02	2.33E-02	4.31E-02	pCi/g	3/20/2014	2.088	170.02	1.49		18.6	06	U-235	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	4.33E-02	3.51E-02	3.52E-02	3.50E-02	pCi/g	3/20/2014	2.114	170.02	6.49		18.3	07	U-235	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	1.32E-02	2.01E-02	2.02E-02	3.00E-02	pCi/g	3/20/2014	2.23	170.02	1.83		14.3	08	U-235	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	4.69E-02	3.91E-02	3.92E-02	3.36E-02	pCi/g	3/20/2014	2.038	170	5.83		16.8	09	U-235	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	3.23E-02	5.50E-02	5.50E-02	9.67E-02	pCi/g	3/20/2014	2.014	170	2		17.7	10	U-235	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	3.49E-02	5.95E-02	5.95E-02	1.05E-01	pCi/g	3/20/2014	2.016	170.02	2		18.8	11	U-235	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-235	EML U-02 Modified	2.23E-01	9.47E-02	9.60E-02	5.57E-02	pCi/g	3/20/2014	2.038	170	24		13.9	12	U-235	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-03083
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-03083-01	LCS	KNOWN	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	7.86E+00	2.83E-01			pCi/g	3/20/2014	1	170.02	651		17.4	01	U-238	7.8649
14-03083-01	LCS	SPIKE	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	7.97E+00	1.04E+00	1.19E+00	7.33E-02	pCi/g	3/20/2014	1	170.02	651		17.4	01	U-238	7.8649
14-03083-02	MBL	BLANK	03/17/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	1.59E-02	2.43E-02	2.43E-02	4.12E-02	pCi/g	3/20/2014	2	170	2.64		18.5	02	U-238	
14-03083-03	DUP	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	1.60E+00	2.53E-01	2.77E-01	3.18E-02	pCi/g	3/20/2014	2.208	170	283		19.2	03	U-238	
14-03083-04	DO	FEEBRIS02-3.035-036GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	1.63E+00	2.40E-01	2.66E-01	2.56E-02	pCi/g	3/20/2014	2.208	170.02	333		20.1	04	U-238	
14-03083-05	TRG	FEEBRIS02-2.031-032GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	7.06E-01	1.45E-01	1.54E-01	3.00E-02	pCi/g	3/20/2014	2.062	170.02	123		19.3	05	U-238	
14-03083-06	TRG	FEEBRIS1C-12.048-049GP	03/12/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	5.55E-01	1.34E-01	1.40E-01	3.17E-02	pCi/g	3/20/2014	2.088	170.02	83.7		18.6	06	U-238	
14-03083-07	TRG	FEEBRIS1-2.023-024GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	3.73E-01	9.64E-02	1.00E-01	3.04E-02	pCi/g	3/20/2014	2.114	170.02	69.3		18.3	07	U-238	
14-03083-08	TRG	FEEBRIS1-2.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	1.62E-01	6.28E-02	6.39E-02	2.43E-02	pCi/g	3/20/2014	2.23	170.02	27.8		14.3	08	U-238	
14-03083-09	TRG	FEEBRIS1C-2RA.028-029GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	5.89E-01	1.38E-01	1.45E-01	4.45E-02	pCi/g	3/20/2014	2.038	170	90.6		16.8	09	U-238	
14-03083-10	TRG	FEEBRIS1C-4R.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	9.05E-01	2.52E-01	2.60E-01	6.83E-02	pCi/g	3/20/2014	2.014	170	69.5		17.7	10	U-238	
14-03083-11	TRG	FEEBRIS1C-4RB.046-047GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	5.84E-01	2.00E-01	2.05E-01	7.39E-02	pCi/g	3/20/2014	2.016	170.02	41.5		18.8	11	U-238	
14-03083-12	TRG	FEEBRIS1C-12C.055-056GP	03/13/14 00:00	3/17/2014	3/24/2014	14-03083	Uranium-238	EML U-02 Modified	1.92E+00	3.27E-01	3.54E-01	6.95E-02	pCi/g	3/20/2014	2.038	170	257		13.9	12	U-238	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	5.18E-02	6.63E-02	6.66E-02	9.85E-02	pCi/g	4/21/2014	1	170.02	3.15		17.7	02	AC-227		0.0050
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	6.74E-02	6.23E-02	6.29E-02	7.15E-02	pCi/g	4/21/2014	1.03	170.02	5.32		18.8	03	AC-227		0.0040
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	1.27E-01	9.28E-02	9.41E-02	6.77E-02	pCi/g	4/21/2014	1.03	170.02	7.83		13.9	04	AC-227		0.0010
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	1.24E-01	8.68E-02	8.82E-02	8.08E-02	pCi/g	4/21/2014	1.138	170	9.15		17.5	05	AC-227		0.0050
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	6.73E-02	6.22E-02	6.28E-02	5.81E-02	pCi/g	4/21/2014	1.074	170	4.83		18.2	06	AC-227		0.0010
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	5.77E-02	5.33E-02	5.38E-02	4.98E-02	pCi/g	4/21/2014	1.172	170	4.83		17	07	AC-227		0.0010
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	6.51E-02	6.50E-02	6.55E-02	7.61E-02	pCi/g	4/21/2014	1.048	170	4.49		18.1	08	AC-227		0.0030
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	8.04E-02	6.27E-02	6.34E-02	6.19E-02	pCi/g	4/21/2014	1.274	170	7.32		16.3	09	AC-227		0.0040
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	6.64E-02	5.94E-02	6.00E-02	6.35E-02	pCi/g	4/21/2014	1.104	170	5.49		15.9	10	AC-227		0.0030
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	5.17E-02	5.60E-02	5.64E-02	7.46E-02	pCi/g	4/21/2014	1.068	170	4.15		18.5	11	AC-227		0.0050
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	7.27E-02	7.12E-02	7.18E-02	9.44E-02	pCi/g	4/21/2014	1.168	170	5.47		18.2	12	AC-227		0.0090
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	3.05E-02	3.89E-02	3.90E-02	5.79E-02	pCi/g	4/21/2014	1.266	170	3.15		19	13	AC-227		0.0050
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	8.99E-02	7.02E-02	7.11E-02	6.93E-02	pCi/g	4/21/2014	1.216	170	7.32		16.9	14	AC-227		0.0040
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	1.07E-01	7.46E-02	7.58E-02	5.88E-02	pCi/g	4/21/2014	1.16	170	8.66		19.3	15	AC-227		0.0020
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	8.78E-02	6.53E-02	6.62E-02	5.48E-02	pCi/g	4/21/2014	1.172	170	7.66		18.9	16	AC-227		0.0020
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	3.44E-03	2.23E-02	2.23E-02	6.07E-02	pCi/g	4/21/2014	1.126	170	0.32		18.7	17	AC-227		0.0040
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	6.75E-01	2.12E-01	2.28E-01	7.14E-02	pCi/g	4/21/2014	1.054	170	53.3		17.3	18	AC-227		0.0040
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	6.93E-01	2.37E-01	2.52E-01	9.04E-02	pCi/g	4/21/2014	1.136	170	46		16.9	19	AC-227		0.0000
14-04118-20	TRG	FEEBRISWL-119.001-002	04/14/14 00:00	4/17/2014	4/24/2014	14-04118	Actinium-227	EML Th-01 Modified	1.51E-02	4.20E-02	4.20E-02	9.06E-02	pCi/g	4/21/2014	1.056	170	1		17.8	20	AC-227		0.0000

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Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04118-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	5.38E+00	1.45E-01			pCi/g	4/21/2014	1	170.02	348		16.8	01	TH-230	5.3843	0.0110
14-04118-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	5.71E+00	9.59E-01	1.19E+00	1.24E-01	pCi/g	4/21/2014	1	170.02	348		16.8	01	TH-230	5.3843	0.0110
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	8.55E-02	7.93E-02	8.00E-02	9.07E-02	pCi/g	4/21/2014	1	170.02	5.32		17.7	02	TH-230		0.0040
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	5.11E-01	1.77E-01	1.88E-01	6.97E-02	pCi/g	4/21/2014	1.03	170.02	41.3		18.8	03	TH-230		0.0040
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	6.77E-01	2.38E-01	2.52E-01	1.04E-01	pCi/g	4/21/2014	1.03	170.02	42.8		13.9	04	TH-230		0.0070
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	6.19E-01	2.07E-01	2.21E-01	7.90E-02	pCi/g	4/21/2014	1.138	170	47		17.5	05	TH-230		0.0000
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	8.38E-01	2.52E-01	2.73E-01	6.50E-02	pCi/g	4/21/2014	1.074	170	61.7		18.2	06	TH-230		0.0020
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	1.28E-01	8.18E-02	8.33E-02	6.99E-02	pCi/g	4/21/2014	1.172	170	11		17	07	TH-230		0.0000
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	9.43E-01	2.77E-01	3.00E-01	6.76E-02	pCi/g	4/21/2014	1.048	170	66.7		18.1	08	TH-230		0.0020
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	2.79E-01	1.18E-01	1.23E-01	6.42E-02	pCi/g	4/21/2014	1.274	170	26		16.3	09	TH-230		0.0000
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	2.79E-01	1.22E-01	1.27E-01	5.64E-02	pCi/g	4/21/2014	1.104	170	23.7		15.9	10	TH-230		0.0020
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	4.01E-01	1.53E-01	1.61E-01	7.66E-02	pCi/g	4/21/2014	1.068	170	33		18.5	11	TH-230		0.0060
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	6.46E-02	6.41E-02	6.46E-02	8.17E-02	pCi/g	4/21/2014	1.168	170	4.98		18.2	12	TH-230		0.0060
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	1.59E-01	8.26E-02	8.49E-02	6.22E-02	pCi/g	4/21/2014	1.266	170	16.8		19	13	TH-230		0.0070
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	6.59E-01	2.07E-01	2.23E-01	7.19E-02	pCi/g	4/21/2014	1.216	170	55		16.9	14	TH-230		0.0000
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	6.92E-01	2.12E-01	2.29E-01	5.74E-02	pCi/g	4/21/2014	1.16	170	57.7		19.3	15	TH-230		0.0020
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	5.67E-01	1.81E-01	1.94E-01	5.35E-02	pCi/g	4/21/2014	1.172	170	50.7		18.9	16	TH-230		0.0020
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	4.63E+00	8.30E-01	1.01E+00	5.51E-02	pCi/g	4/21/2014	1.126	170	441		18.7	17	TH-230		0.0030
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	8.89E+01	1.43E+01	1.80E+01	7.41E-02	pCi/g	4/21/2014	1.054	170	7200		17.3	18	TH-230		0.0000
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	7.78E+01	1.39E+01	1.69E+01	6.14E-02	pCi/g	4/21/2014	1.136	170	5290		16.9	19	TH-230		0.0010
14-04118-20	TRG	FEEBRISWL-119.001-002	04/14/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-230	EML Th-01 Modified	4.52E-01	1.79E-01	1.87E-01	7.05E-02	pCi/g	4/21/2014	1.056	170	30.7		17.8	20	TH-230		0.0020

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04118-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.74E+00	1.71E-01			pCi/g	4/21/2014	1	170.02	285		16.8	01	TH-232	4.7442	0.0050
14-04118-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.67E+00	8.17E-01	9.15E-01	9.79E-02	pCi/g	4/21/2014	1	170.02	285		16.8	01	TH-232	4.7442	0.0050
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	2.66E-02	4.54E-02	4.54E-02	7.67E-02	pCi/g	4/21/2014	1	170.02	1.66		17.7	02	TH-232		0.0020
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.19E-01	1.58E-01	1.62E-01	7.78E-02	pCi/g	4/21/2014	1.03	170.02	34		18.8	03	TH-232		0.0060
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	3.76E-01	1.69E-01	1.72E-01	1.04E-01	pCi/g	4/21/2014	1.03	170.02	23.8		13.9	04	TH-232		0.0070
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	3.40E-01	1.43E-01	1.47E-01	5.49E-02	pCi/g	4/21/2014	1.138	170	25.8		17.5	05	TH-232		0.0010
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	5.70E-01	1.99E-01	2.05E-01	8.13E-02	pCi/g	4/21/2014	1.074	170	42		18.2	06	TH-232		0.0000
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	5.82E-02	5.66E-02	5.69E-02	6.97E-02	pCi/g	4/21/2014	1.172	170	5		17	07	TH-232		0.0000
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	5.65E-01	2.01E-01	2.07E-01	8.47E-02	pCi/g	4/21/2014	1.048	170	40		18.1	08	TH-232		0.0000
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	1.14E-01	7.21E-02	7.28E-02	5.11E-02	pCi/g	4/21/2014	1.274	170	10.7		16.3	09	TH-232		0.0020
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	2.90E-01	1.24E-01	1.27E-01	5.63E-02	pCi/g	4/21/2014	1.104	170	24.7		15.9	10	TH-232		0.0020
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	1.29E-01	8.17E-02	8.25E-02	5.80E-02	pCi/g	4/21/2014	1.068	170	10.7		18.5	11	TH-232		0.0020
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.96E-02	5.16E-02	5.18E-02	5.40E-02	pCi/g	4/21/2014	1.168	170	3.83		18.2	12	TH-232		0.0010
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	1.30E-01	7.73E-02	7.82E-02	7.53E-02	pCi/g	4/21/2014	1.266	170	13.8		19	13	TH-232		0.0130
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.64E-01	1.68E-01	1.73E-01	7.88E-02	pCi/g	4/21/2014	1.216	170	38.8		16.9	14	TH-232		0.0070
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	6.81E-01	2.09E-01	2.18E-01	5.00E-02	pCi/g	4/21/2014	1.16	170	56.8		19.3	15	TH-232		0.0010
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.36E-01	1.55E-01	1.60E-01	6.70E-02	pCi/g	4/21/2014	1.172	170	39		18.9	16	TH-232		0.0000
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.35E-01	1.49E-01	1.54E-01	5.50E-02	pCi/g	4/21/2014	1.126	170	41.5		18.7	17	TH-232		0.0030
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	8.20E-01	2.37E-01	2.48E-01	6.47E-02	pCi/g	4/21/2014	1.054	170	66.5		17.3	18	TH-232		0.0030
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	4.82E-01	1.86E-01	1.91E-01	6.13E-02	pCi/g	4/21/2014	1.136	170	32.8		16.9	19	TH-232		0.0010
14-04118-20	TRG	FEEBRISWL-119.001-002	04/14/14 00:00	4/17/2014	4/24/2014	14-04118	Thorium-232	EML Th-01 Modified	3.04E-01	1.42E-01	1.45E-01	7.04E-02	pCi/g	4/21/2014	1.056	170	20.7		17.8	20	TH-232		0.0020

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Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04118-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	8.03E+00	2.89E-01			pCi/g	4/21/2014	1	170	631		17	01	U-234	8.0258	0.0020
14-04118-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	7.48E+00	9.76E-01	1.11E+00	5.67E-02	pCi/g	4/21/2014	1	170	631		17	01	U-234	8.0258	0.0020
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	6.58E-02	6.27E-02	6.29E-02	6.75E-02	pCi/g	4/21/2014	1	170	4.66		18.1	02	U-234		0.0020
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.67E-01	1.53E-01	1.56E-01	6.83E-02	pCi/g	4/21/2014	1.03	170	41		16.3	03	U-234		0.0000
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.69E-01	1.53E-01	1.57E-01	5.52E-02	pCi/g	4/21/2014	1.03	170	40.7		15.9	04	U-234		0.0020
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.00E-01	1.35E-01	1.38E-01	5.89E-02	pCi/g	4/21/2014	1.138	170	38.3		18.5	05	U-234		0.0040
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.58E-01	1.55E-01	1.58E-01	5.06E-02	pCi/g	4/21/2014	1.074	170	37.8		18.2	06	U-234		0.0010
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	1.49E-01	7.90E-02	7.98E-02	5.89E-02	pCi/g	4/21/2014	1.172	170	15.1		19	07	U-234		0.0050
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.41E-01	1.71E-01	1.74E-01	7.36E-02	pCi/g	4/21/2014	1.048	170	28.7		16.9	08	U-234		0.0020
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.99E-01	1.47E-01	1.51E-01	5.09E-02	pCi/g	4/21/2014	1.274	170	51.5		19.3	09	U-234		0.0030
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	3.14E-01	1.24E-01	1.26E-01	4.88E-02	pCi/g	4/21/2014	1.104	170	26.8		18.9	10	U-234		0.0010
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	3.03E-01	1.20E-01	1.22E-01	4.72E-02	pCi/g	4/21/2014	1.068	170	26.8		18.7	11	U-234		0.0010
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	1.73E-01	9.05E-02	9.14E-02	4.86E-02	pCi/g	4/21/2014	1.168	170	14.8		17.3	12	U-234		0.0010
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	3.60E-01	1.18E-01	1.21E-01	3.77E-02	pCi/g	4/21/2014	1.266	170	39.8		16.9	13	U-234		0.0010
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	3.25E-01	1.24E-01	1.26E-01	5.78E-02	pCi/g	4/21/2014	1.216	170	29.5		17.8	14	U-234		0.0030
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	3.86E-01	1.22E-01	1.25E-01	5.03E-02	pCi/g	4/21/2014	1.16	170.02	43.3		17.4	15	U-234		0.0040
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.58E-01	1.53E-01	1.56E-01	8.05E-02	pCi/g	4/21/2014	1.172	170	40.5		18.5	16	U-234		0.0090
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	4.57E-01	1.41E-01	1.45E-01	6.43E-02	pCi/g	4/21/2014	1.126	170.02	46.8		19.2	17	U-234		0.0070
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	6.49E-01	1.67E-01	1.73E-01	4.97E-02	pCi/g	4/21/2014	1.054	170.02	68.5		20.1	18	U-234		0.0030
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	5.68E-01	1.66E-01	1.70E-01	5.16E-02	pCi/g	4/21/2014	1.136	170	52.7		19.3	19	U-234		0.0020
14-04118-20	TRG	FEEBRISWL-119.001-002	04/14/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-234	EML U-02 Modified	6.08E-01	1.99E-01	2.03E-01	8.63E-02	pCi/g	4/21/2014	1.056	170	42.2		18.6	20	U-234		0.0050

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Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04118-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	6.44E-01	2.04E-01	2.09E-01	8.78E-02	pCi/g	4/21/2014	1	170	44		17	01	U-235		0.0000
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	1.45E-02	3.47E-02	3.47E-02	7.27E-02	pCi/g	4/21/2014	1	170	0.83		18.1	02	U-235		0.0010
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	7.02E-02	6.78E-02	6.80E-02	8.42E-02	pCi/g	4/21/2014	1.03	170	5		16.3	03	U-235		0.0000
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	4.27E-02	5.60E-02	5.61E-02	8.53E-02	pCi/g	4/21/2014	1.03	170	3		15.9	04	U-235		0.0000
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	5.35E-02	5.76E-02	5.77E-02	7.71E-02	pCi/g	4/21/2014	1.138	170	4.15		18.5	05	U-235		0.0050
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	7.33E-03	3.06E-02	3.06E-02	7.84E-02	pCi/g	4/21/2014	1.074	170	0.49		18.2	06	U-235		0.0030
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	3.89E-03	2.51E-02	2.51E-02	6.85E-02	pCi/g	4/21/2014	1.172	170	0.32		19	07	U-235		0.0040
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	9.50E-02	9.19E-02	9.22E-02	1.14E-01	pCi/g	4/21/2014	1.048	170	5		16.9	08	U-235		0.0000
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	2.19E-02	3.35E-02	3.35E-02	4.99E-02	pCi/g	4/21/2014	1.274	170	1.83		19.3	09	U-235		0.0010
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	6.97E-02	6.39E-02	6.41E-02	6.03E-02	pCi/g	4/21/2014	1.104	170	4.83		18.9	10	U-235		0.0010
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	1.63E-01	9.64E-02	9.71E-02	6.67E-02	pCi/g	4/21/2014	1.068	170	11.7		18.7	11	U-235		0.0020
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	6.69E-02	6.37E-02	6.39E-02	6.87E-02	pCi/g	4/21/2014	1.168	170	4.66		17.3	12	U-235		0.0020
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	9.26E-03	2.22E-02	2.22E-02	4.66E-02	pCi/g	4/21/2014	1.266	170	0.83		16.9	13	U-235		0.0010
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	6.79E-02	6.57E-02	6.58E-02	8.15E-02	pCi/g	4/21/2014	1.216	170	5		17.8	14	U-235		0.0000
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	5.85E-02	5.36E-02	5.38E-02	6.20E-02	pCi/g	4/21/2014	1.16	170.02	5.32		17.4	15	U-235		0.0040
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	5.32E-02	6.27E-02	6.29E-02	9.21E-02	pCi/g	4/21/2014	1.172	170	3.81		18.5	16	U-235		0.0070
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	9.61E-02	7.22E-02	7.25E-02	7.59E-02	pCi/g	4/21/2014	1.126	170.02	7.98		19.2	17	U-235		0.0060
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	6.02E-02	5.71E-02	5.73E-02	7.00E-02	pCi/g	4/21/2014	1.054	170.02	5.15		20.1	18	U-235		0.0050
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	8.87E-02	7.00E-02	7.03E-02	6.37E-02	pCi/g	4/21/2014	1.136	170	6.66		19.3	19	U-235		0.0020
14-04118-20	TRG	FEEBRISWL-119.001-002	04/14/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-235	EML U-02 Modified	1.48E-02	3.54E-02	3.54E-02	7.42E-02	pCi/g	4/21/2014	1.056	170	0.83		18.6	20	U-235		0.0010

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04118-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	7.82E+00	2.82E-01			pCi/g	4/21/2014	1	170	635		17	01	U-238	7.8231	0.0010
14-04118-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	7.50E+00	9.77E-01	1.11E+00	4.93E-02	pCi/g	4/21/2014	1	170	635		17	01	U-238	7.8231	0.0010
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	0.00E+00	3.90E-02	3.90E-02	8.43E-02	pCi/g	4/21/2014	1	170	1		18.1	02	U-238		0.0000
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	3.59E-01	1.31E-01	1.34E-01	5.42E-02	pCi/g	4/21/2014	1.03	170	31.7		16.3	03	U-238		0.0020
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	4.35E-01	1.46E-01	1.49E-01	4.79E-02	pCi/g	4/21/2014	1.03	170	37.8		15.9	04	U-238		0.0010
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	4.12E-01	1.36E-01	1.39E-01	4.97E-02	pCi/g	4/21/2014	1.138	170	39.7		18.5	05	U-238		0.0020
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	3.96E-01	1.43E-01	1.45E-01	5.04E-02	pCi/g	4/21/2014	1.074	170	32.8		18.2	06	U-238		0.0010
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	6.17E-02	5.57E-02	5.58E-02	7.20E-02	pCi/g	4/21/2014	1.172	170	6.3		19	07	U-238		0.0100
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	3.55E-01	1.54E-01	1.56E-01	9.18E-02	pCi/g	4/21/2014	1.048	170	23.1		16.9	08	U-238		0.0050
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	2.98E-01	1.10E-01	1.12E-01	4.03E-02	pCi/g	4/21/2014	1.274	170	30.8		19.3	09	U-238		0.0010
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	2.64E-01	1.13E-01	1.15E-01	5.57E-02	pCi/g	4/21/2014	1.104	170	22.7		18.9	10	U-238		0.0020
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	3.21E-01	1.24E-01	1.26E-01	5.91E-02	pCi/g	4/21/2014	1.068	170	28.5		18.7	11	U-238		0.0030
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	2.05E-01	9.92E-02	1.00E-01	5.54E-02	pCi/g	4/21/2014	1.168	170	17.7		17.3	12	U-238		0.0020
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	3.06E-01	1.09E-01	1.11E-01	5.40E-02	pCi/g	4/21/2014	1.266	170	34		16.9	13	U-238		0.0000
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	3.38E-01	1.25E-01	1.28E-01	4.58E-02	pCi/g	4/21/2014	1.216	170	30.8		17.8	14	U-238		0.0010
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	4.14E-01	1.26E-01	1.30E-01	4.24E-02	pCi/g	4/21/2014	1.16	170.02	46.7		17.4	15	U-238		0.0020
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	4.34E-01	1.46E-01	1.49E-01	5.92E-02	pCi/g	4/21/2014	1.172	170	38.5		18.5	16	U-238		0.0030
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	4.02E-01	1.30E-01	1.33E-01	5.49E-02	pCi/g	4/21/2014	1.126	170.02	41.3		19.2	17	U-238		0.0040
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	7.07E-01	1.76E-01	1.83E-01	5.94E-02	pCi/g	4/21/2014	1.054	170.02	75		20.1	18	U-238		0.0060
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	4.69E-01	1.48E-01	1.52E-01	5.14E-02	pCi/g	4/21/2014	1.136	170	43.7		19.3	19	U-238		0.0020
14-04118-20	TRG	FEEBRISWL-119.001-002	04/14/14 00:00	4/17/2014	4/23/2014	14-04118	Uranium-238	EML U-02 Modified	8.64E-01	2.42E-01	2.50E-01	8.60E-02	pCi/g	4/21/2014	1.056	170	60.2		18.6	20	U-238		0.0050

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Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-04118-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00				pCi/g	4/18/2014	1	30				01	CO-60	130.4300
14-04118-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00				pCi/g	4/18/2014	1	30				01	CS-137	82.9600
14-04118-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Cobalt-60	LANL ER-130 Modified	1.36E+02	8.90E+00	1.13E+01	1.70E+00	1.19E+00	pCi/g	4/18/2014	1	30				01	CO-60	130.4300
14-04118-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Cesium-137	LANL ER-130 Modified	8.84E+01	8.18E+00	9.35E+00	2.18E+00	1.08E+00	pCi/g	4/18/2014	1	30				01	CS-137	82.9600
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	6.53E-02	1.36E-01	1.36E-01	2.63E-01	1.14E-01	pCi/g	4/18/2014	1	60				02	AC-228	
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	2.61E-02	8.06E-02	8.06E-02	1.35E-01	6.03E-02	pCi/g	4/18/2014	1	60				02	BI-214	
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	-2.80E-02	3.64E-01	3.64E-01	5.42E-01	2.03E-01	pCi/g	4/18/2014	1	60				02	K-40	
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-2.86E-02	1.48E+00	1.48E+00	2.06E+00	9.58E-01	pCi/g	4/18/2014	1	60				02	PA-231	
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	4.70E-01	4.89E-01	4.89E-01	7.99E-01	3.80E-01	pCi/g	4/18/2014	1	60				02	PB-210	
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	2.08E-02	5.91E-02	5.91E-02	8.74E-02	4.07E-02	pCi/g	4/18/2014	1	60				02	PB-212	
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	2.35E-02	2.99E-02	2.99E-02	1.44E-01	6.66E-02	pCi/g	4/18/2014	1	60				02	PB-214	
14-04118-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	4.13E-02	1.30E-01	1.30E-01	2.20E-01	9.93E-02	pCi/g	4/18/2014	1	60				02	TL-208	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.59E+00	2.37E-01	2.50E-01	3.79E-01	1.78E-01	pCi/g	4/18/2014	478.12	60				03	AC-228	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.39E+00	1.81E-01	1.95E-01	1.97E-01	9.32E-02	pCi/g	4/18/2014	478.12	60				03	BI-214	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	2.13E+01	2.60E+00	2.82E+00	1.01E+00	4.64E-01	pCi/g	4/18/2014	478.12	60				03	K-40	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-1.57E+00	2.00E+00	2.01E+00	2.38E+00	1.13E+00	pCi/g	4/18/2014	478.12	60				03	PA-231	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	2.04E+00	1.47E+00	1.48E+00	2.42E+00	1.19E+00	pCi/g	4/18/2014	478.12	60				03	PB-210	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.65E+00	2.18E-01	2.34E-01	2.30E-01	1.13E-01	pCi/g	4/18/2014	478.12	60				03	PB-212	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.38E+00	1.74E-01	1.88E-01	2.10E-01	1.01E-01	pCi/g	4/18/2014	478.12	60				03	PB-214	
14-04118-03	DUP	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.19E+00	1.81E-01	1.91E-01	2.10E-01	1.51E-01	pCi/g	4/18/2014	478.12	60				03	TL-208	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.31E+00	2.10E-01	2.21E-01	5.04E-01	2.40E-01	pCi/g	4/18/2014	478.12	60				04	AC-228	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.38E+00	1.89E-01	2.02E-01	2.21E-01	1.05E-01	pCi/g	4/18/2014	478.12	60				04	BI-214	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	2.09E+01	2.61E+00	2.82E+00	1.30E+00	6.06E-01	pCi/g	4/18/2014	478.12	60				04	K-40	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-4.33E+00	2.32E+00	2.33E+00	2.35E+00	1.11E+00	pCi/g	4/18/2014	478.12	60				04	PA-231	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.28E+00	1.50E+00	1.50E+00	2.51E+00	1.23E+00	pCi/g	4/18/2014	478.12	60				04	PB-210	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.17E+00	1.50E-01	1.62E-01	2.84E-01	1.40E-01	pCi/g	4/18/2014	478.12	60				04	PB-212	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.45E+00	1.88E-01	2.02E-01	2.61E-01	1.26E-01	pCi/g	4/18/2014	478.12	60				04	PB-214	
14-04118-04	DO	FEEBRIS01-2.008-009	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.16E+00	1.91E-01	2.00E-01	1.50E-01	1.64E-01	pCi/g	4/18/2014	478.12	60				04	TL-208	

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Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
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SDG: 14-04118
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Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.34E+00	2.39E-01	2.48E-01	4.27E-01	2.00E-01	pCi/g	4/18/2014	520.84	60				05	AC-228	
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.32E+00	1.87E-01	1.99E-01	1.94E-01	9.16E-02	pCi/g	4/18/2014	520.84	60				05	BI-214	
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.94E+01	2.64E+00	2.82E+00	1.27E+00	5.85E-01	pCi/g	4/18/2014	520.84	60				05	K-40	
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	1.62E-01	9.36E-01	9.36E-01	3.03E+00	1.45E+00	pCi/g	4/18/2014	520.84	60				05	PA-231	
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.18E+00	1.23E+00	1.24E+00	2.05E+00	1.00E+00	pCi/g	4/18/2014	520.84	60				05	PB-210	
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.30E+00	1.66E-01	1.79E-01	2.53E-01	1.24E-01	pCi/g	4/18/2014	520.84	60				05	PB-212	
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.37E+00	1.62E-01	1.76E-01	2.89E-01	1.40E-01	pCi/g	4/18/2014	520.84	60				05	PB-214	
14-04118-05	TRG	FEEBRIS01-2.018-019	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.09E+00	1.94E-01	2.02E-01	4.17E-02	1.65E-01	pCi/g	4/18/2014	520.84	60				05	TL-208	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.05E+00	2.45E-01	2.51E-01	4.96E-01	2.35E-01	pCi/g	4/18/2014	539.63	60				06	AC-228	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.22E+00	2.07E-01	2.16E-01	2.69E-01	1.29E-01	pCi/g	4/18/2014	539.63	60				06	BI-214	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.53E+01	2.15E+00	2.29E+00	8.40E-01	3.70E-01	pCi/g	4/18/2014	539.63	60				06	K-40	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	5.85E-01	1.84E+00	1.84E+00	2.77E+00	1.33E+00	pCi/g	4/18/2014	539.63	60				06	PA-231	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.78E+00	1.19E+00	1.20E+00	2.01E+00	9.80E-01	pCi/g	4/18/2014	539.63	60				06	PB-210	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.31E+00	1.65E-01	1.78E-01	2.17E-01	1.06E-01	pCi/g	4/18/2014	539.63	60				06	PB-212	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	9.76E-01	1.73E-01	1.80E-01	2.29E-01	1.11E-01	pCi/g	4/18/2014	539.63	60				06	PB-214	
14-04118-06	TRG	FEEBRIS01-2.020-021	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	9.67E-01	2.04E-01	2.10E-01	1.31E-01	2.04E-01	pCi/g	4/18/2014	539.63	60				06	TL-208	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	4.43E-01	4.14E-01	4.15E-01	9.04E-01	3.95E-01	pCi/g	4/18/2014	89.12	60				07	AC-228	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	2.29E-01	3.34E-01	3.35E-01	5.81E-01	2.66E-01	pCi/g	4/18/2014	89.12	60				07	BI-214	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	4.26E+00	1.86E+00	1.88E+00	1.90E+00	7.38E-01	pCi/g	4/18/2014	89.12	60				07	K-40	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-2.20E-01	3.70E+00	3.70E+00	6.28E+00	2.85E+00	pCi/g	4/18/2014	89.12	60				07	PA-231	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	4.28E+00	3.30E+00	3.30E+00	4.94E+00	2.35E+00	pCi/g	4/18/2014	89.12	60				07	PB-210	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	2.68E-01	1.98E-01	1.98E-01	3.81E-01	1.78E-01	pCi/g	4/18/2014	89.12	60				07	PB-212	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	2.30E-01	2.50E-01	2.50E-01	4.78E-01	2.19E-01	pCi/g	4/18/2014	89.12	60				07	PB-214	
14-04118-07	TRG	FEEBRIS01-2.022-023	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	3.27E-01	4.25E-01	4.26E-01	7.62E-01	3.44E-01	pCi/g	4/18/2014	89.12	60				07	TL-208	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.21E+00	4.30E-01	4.34E-01	8.08E-01	3.79E-01	pCi/g	4/18/2014	541.79	60				08	AC-228	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.35E+00	3.08E-01	3.16E-01	3.98E-01	1.88E-01	pCi/g	4/18/2014	541.79	60				08	BI-214	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.53E+01	2.82E+00	2.93E+00	2.15E+00	9.76E-01	pCi/g	4/18/2014	541.79	60				08	K-40	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	3.35E+00	3.70E+00	3.71E+00	5.42E+00	2.61E+00	pCi/g	4/18/2014	541.79	60				08	PA-231	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.51E+00	1.55E+00	1.55E+00	2.58E+00	1.26E+00	pCi/g	4/18/2014	541.79	60				08	PB-210	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.19E+00	2.86E-01	2.93E-01	3.79E-01	1.85E-01	pCi/g	4/18/2014	541.79	60				08	PB-212	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.12E+00	2.73E-01	2.79E-01	4.50E-01	2.17E-01	pCi/g	4/18/2014	541.79	60				08	PB-214	
14-04118-08	TRG	FEEBRIS01-2.023-024	04/12/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.36E+00	3.50E-01	3.57E-01	3.27E-01	3.25E-01	pCi/g	4/18/2014	541.79	60				08	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample;MBL=Blank;DUP=Duplicate;TRG=Normal Sample;DO=Duplicate Original;CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	2.58E-01	1.88E-01	1.88E-01	3.34E-01	1.56E-01	pCi/g	4/18/2014	520.38	60				09	AC-228	
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	6.17E-01	1.26E-01	1.30E-01	1.82E-01	8.64E-02	pCi/g	4/18/2014	520.38	60				09	BI-214	
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	8.39E+00	1.27E+00	1.34E+00	5.44E-01	2.33E-01	pCi/g	4/18/2014	520.38	60				09	K-40	
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-1.14E+00	1.43E+00	1.43E+00	1.68E+00	7.87E-01	pCi/g	4/18/2014	520.38	60				09	PA-231	
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.09E+00	6.94E-01	6.96E-01	1.14E+00	5.46E-01	pCi/g	4/18/2014	520.38	60				09	PB-210	
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	2.66E-01	7.37E-02	7.50E-02	1.69E-01	8.24E-02	pCi/g	4/18/2014	520.38	60				09	PB-212	
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	6.14E-01	1.24E-01	1.28E-01	1.83E-01	8.80E-02	pCi/g	4/18/2014	520.38	60				09	PB-214	
14-04118-09	TRG	FEEBRIS01-2.033-034	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.82E-01	9.71E-02	9.75E-02	1.78E-01	1.31E-01	pCi/g	4/18/2014	520.38	60				09	TL-208	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	9.52E-01	3.16E-01	3.20E-01	7.62E-01	4.67E-01	pCi/g	4/18/2014	536.57	60				10	AC-228	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.02E+00	1.78E-01	1.86E-01	2.37E-01	1.13E-01	pCi/g	4/18/2014	536.57	60				10	BI-214	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.98E+01	2.65E+00	2.84E+00	1.21E+00	5.55E-01	pCi/g	4/18/2014	536.57	60				10	K-40	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	2.48E+00	1.82E+00	1.83E+00	2.91E+00	1.40E+00	pCi/g	4/18/2014	536.57	60				10	PA-231	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.46E+00	1.15E+00	1.15E+00	1.93E+00	9.38E-01	pCi/g	4/18/2014	536.57	60				10	PB-210	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.01E+00	1.36E-01	1.46E-01	2.21E-01	1.08E-01	pCi/g	4/18/2014	536.57	60				10	PB-212	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.11E+00	1.58E-01	1.68E-01	2.71E-01	1.31E-01	pCi/g	4/18/2014	536.57	60				10	PB-214	
14-04118-10	TRG	FEEBRIS01-2.038-039	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	7.21E-01	1.67E-01	1.71E-01	1.32E-01	1.81E-01	pCi/g	4/18/2014	536.57	60				10	TL-208	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.20E+00	4.14E-01	4.19E-01	8.43E-01	3.98E-01	pCi/g	4/18/2014	580.37	60				11	AC-228	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.05E+00	2.47E-01	2.53E-01	3.35E-01	1.58E-01	pCi/g	4/18/2014	580.37	60				11	BI-214	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.92E+01	2.95E+00	3.11E+00	6.29E-01	2.23E-01	pCi/g	4/18/2014	580.37	60				11	K-40	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	1.81E+00	3.29E+00	3.29E+00	4.71E+00	2.26E+00	pCi/g	4/18/2014	580.37	60				11	PA-231	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.64E+00	1.26E+00	1.26E+00	1.96E+00	9.52E-01	pCi/g	4/18/2014	580.37	60				11	PB-210	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.16E+00	2.55E-01	2.62E-01	3.22E-01	1.57E-01	pCi/g	4/18/2014	580.37	60				11	PB-212	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.24E+00	2.13E-01	2.23E-01	4.04E-01	1.95E-01	pCi/g	4/18/2014	580.37	60				11	PB-214	
14-04118-11	TRG	FEEBRIS01-2.038-039D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.04E+00	3.21E-01	3.26E-01	3.06E-01	3.26E-01	pCi/g	4/18/2014	580.37	60				11	TL-208	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	4.42E-01	1.68E-01	1.69E-01	3.20E-01	1.52E-01	pCi/g	4/18/2014	651.48	60				12	AC-228	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	3.90E-01	9.61E-02	9.81E-02	1.59E-01	7.61E-02	pCi/g	4/18/2014	651.48	60				12	BI-214	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.80E+01	2.07E+00	2.26E+00	2.99E+00	1.47E+00	pCi/g	4/18/2014	651.48	60				12	K-40	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	3.20E-01	8.81E-01	8.81E-01	1.49E+00	7.06E-01	pCi/g	4/18/2014	651.48	60				12	PA-231	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	7.85E-01	7.66E-01	7.68E-01	1.07E+00	5.17E-01	pCi/g	4/18/2014	651.48	60				12	PB-210	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	4.16E-01	7.32E-02	7.62E-02	2.28E-01	1.12E-01	pCi/g	4/18/2014	651.48	60				12	PB-212	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	4.31E-01	9.52E-02	9.78E-02	1.88E-01	9.13E-02	pCi/g	4/18/2014	651.48	60				12	PB-214	
14-04118-12	TRG	FEEBRIS01-2.040-041	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	3.45E-01	1.10E-01	1.11E-01	1.88E-01	8.91E-02	pCi/g	4/18/2014	651.48	60				12	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample;MBL=Blank;DUP=Duplicate;TRG=Normal Sample;DO=Duplicate Original;CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	8.39E-01	2.71E-01	2.74E-01	4.14E-01	1.92E-01	pCi/g	4/18/2014	356.99	60				13	AC-228	
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	9.55E-01	1.90E-01	1.96E-01	2.83E-01	1.35E-01	pCi/g	4/18/2014	356.99	60				13	BI-214	
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.29E+01	1.94E+00	2.05E+00	9.44E-01	4.15E-01	pCi/g	4/18/2014	356.99	60				13	K-40	
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-2.47E+00	2.14E+00	2.15E+00	2.39E+00	1.11E+00	pCi/g	4/18/2014	356.99	60				13	PA-231	
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	3.41E+00	1.67E+00	1.67E+00	2.65E+00	1.29E+00	pCi/g	4/18/2014	356.99	60				13	PB-210	
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	9.58E-01	1.92E-01	1.98E-01	2.53E-01	1.23E-01	pCi/g	4/18/2014	356.99	60				13	PB-212	
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.02E+00	1.68E-01	1.76E-01	2.22E-01	1.06E-01	pCi/g	4/18/2014	356.99	60				13	PB-214	
14-04118-13	TRG	FEEBRIS02-2.019-020	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	8.06E-01	1.82E-01	1.86E-01	2.01E-01	1.60E-01	pCi/g	4/18/2014	356.99	60				13	TL-208	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	6.59E-01	4.07E-01	4.08E-01	7.99E-01	3.64E-01	pCi/g	4/18/2014	201.82	60				14	AC-228	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	3.17E-01	1.81E-01	1.81E-01	3.63E-01	1.67E-01	pCi/g	4/18/2014	201.82	60				14	BI-214	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	4.43E+00	1.57E+00	1.59E+00	1.57E+00	6.49E-01	pCi/g	4/18/2014	201.82	60				14	K-40	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	8.33E-02	2.83E+00	2.83E+00	4.26E+00	1.98E+00	pCi/g	4/18/2014	201.82	60				14	PA-231	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	2.31E+00	2.05E+00	2.05E+00	3.55E+00	1.71E+00	pCi/g	4/18/2014	201.82	60				14	PB-210	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	8.39E-01	2.26E-01	2.30E-01	3.03E-01	1.45E-01	pCi/g	4/18/2014	201.82	60				14	PB-212	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	5.51E-01	1.95E-01	1.97E-01	3.35E-01	1.57E-01	pCi/g	4/18/2014	201.82	60				14	PB-214	
14-04118-14	TRG	FEEBRIS02-2.020-021	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	6.28E-01	2.42E-01	2.44E-01	1.08E-01	2.88E-01	pCi/g	4/18/2014	201.82	60				14	TL-208	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.54E+00	4.38E-01	4.45E-01	7.84E-01	3.64E-01	pCi/g	4/18/2014	484.01	60				15	AC-228	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.31E+00	3.65E-01	3.71E-01	6.48E-01	3.12E-01	pCi/g	4/18/2014	484.01	60				15	BI-214	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.89E+01	3.32E+00	3.46E+00	2.37E+00	1.07E+00	pCi/g	4/18/2014	484.01	60				15	K-40	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-3.82E+00	4.36E+00	4.36E+00	5.32E+00	2.54E+00	pCi/g	4/18/2014	484.01	60				15	PA-231	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	1.69E+00	1.67E+00	1.67E+00	2.51E+00	1.22E+00	pCi/g	4/18/2014	484.01	60				15	PB-210	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.68E+00	3.48E-01	3.59E-01	4.24E-01	2.07E-01	pCi/g	4/18/2014	484.01	60				15	PB-212	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.29E+00	3.15E-01	3.22E-01	5.64E-01	2.73E-01	pCi/g	4/18/2014	484.01	60				15	PB-214	
14-04118-15	TRG	FEEBRIS02-2.022-023	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.15E+00	3.54E-01	3.59E-01	3.66E-01	4.05E-01	pCi/g	4/18/2014	484.01	60				15	TL-208	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.33E+00	2.57E-01	2.66E-01	5.02E-01	2.38E-01	pCi/g	4/18/2014	398.65	60				16	AC-228	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.51E+00	2.32E-01	2.44E-01	2.52E-01	1.21E-01	pCi/g	4/18/2014	398.65	60				16	BI-214	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	2.34E+01	2.87E+00	3.11E+00	4.45E+00	2.18E+00	pCi/g	4/18/2014	398.65	60				16	K-40	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-1.55E-01	1.66E+00	1.66E+00	2.67E+00	1.27E+00	pCi/g	4/18/2014	398.65	60				16	PA-231	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	2.69E+00	1.80E+00	1.80E+00	2.95E+00	1.45E+00	pCi/g	4/18/2014	398.65	60				16	PB-210	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	1.46E+00	1.85E-01	1.99E-01	2.67E-01	1.31E-01	pCi/g	4/18/2014	398.65	60				16	PB-212	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.74E+00	2.18E-01	2.35E-01	2.71E-01	1.31E-01	pCi/g	4/18/2014	398.65	60				16	PB-214	
14-04118-16	TRG	FEEBRIS02-2.022-023D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.39E+00	2.99E-01	3.07E-01	5.17E-01	2.50E-01	pCi/g	4/18/2014	398.65	60				16	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample;MBL=Blank;DUP=Duplicate;TRG=Normal Sample;DO=Duplicate Original;CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04118
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.13E+00	1.93E-01	2.01E-01	4.72E-01	2.24E-01	pCi/g	4/18/2014	470.55	60				17	AC-228	
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.28E+00	2.00E-01	2.11E-01	2.49E-01	1.19E-01	pCi/g	4/18/2014	470.55	60				17	BI-214	
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.61E+01	2.12E+00	2.28E+00	9.94E-01	4.54E-01	pCi/g	4/18/2014	470.55	60				17	K-40	
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	-2.33E+00	2.18E+00	2.18E+00	2.36E+00	1.12E+00	pCi/g	4/18/2014	470.55	60				17	PA-231	
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	2.31E+00	9.30E-01	9.37E-01	1.56E+00	7.55E-01	pCi/g	4/18/2014	470.55	60				17	PB-210	
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	8.24E-01	1.26E-01	1.33E-01	2.38E-01	1.16E-01	pCi/g	4/18/2014	470.55	60				17	PB-212	
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	1.68E+00	1.88E-01	2.06E-01	2.55E-01	1.24E-01	pCi/g	4/18/2014	470.55	60				17	PB-214	
14-04118-17	TRG	FEEBRIS05-3.025-026	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	8.74E-01	1.67E-01	1.73E-01	1.53E-01	1.65E-01	pCi/g	4/18/2014	470.55	60				17	TL-208	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.09E+00	3.43E-01	3.48E-01	6.18E-01	2.93E-01	pCi/g	4/18/2014	428.16	60				18	AC-228	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	5.32E+00	4.89E-01	5.60E-01	4.25E-01	2.05E-01	pCi/g	4/18/2014	428.16	60				18	BI-214	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.06E+01	2.10E+00	2.17E+00	2.13E+00	1.00E+00	pCi/g	4/18/2014	428.16	60				18	K-40	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	3.90E-01	1.23E+00	1.23E+00	5.00E+00	2.43E+00	pCi/g	4/18/2014	428.16	60				18	PA-231	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	4.78E+00	2.65E+00	2.66E+00	4.30E+00	2.12E+00	pCi/g	4/18/2014	428.16	60				18	PB-210	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	9.93E-01	1.89E-01	1.96E-01	5.43E-01	2.69E-01	pCi/g	4/18/2014	428.16	60				18	PB-212	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	5.96E+00	4.87E-01	5.75E-01	3.26E-01	1.58E-01	pCi/g	4/18/2014	428.16	60				18	PB-214	
14-04118-18	TRG	FEEBRIS05-3.025-026D	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	6.11E-01	1.98E-01	2.00E-01	2.32E-01	2.72E-01	pCi/g	4/18/2014	428.16	60				18	TL-208	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Actinium-228	LANL ER-130 Modified	1.43E+00	4.30E-01	4.36E-01	7.63E-01	3.59E-01	pCi/g	4/18/2014	605.24	60				19	AC-228	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Bismuth-214	LANL ER-130 Modified	1.29E+00	2.75E-01	2.83E-01	4.18E-01	2.00E-01	pCi/g	4/18/2014	605.24	60				19	BI-214	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Potassium-40	LANL ER-130 Modified	1.86E+01	2.95E+00	3.10E+00	1.52E+00	6.71E-01	pCi/g	4/18/2014	605.24	60				19	K-40	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Protactinium-231	LANL ER-130 Modified	1.62E+00	3.38E+00	3.38E+00	4.75E+00	2.28E+00	pCi/g	4/18/2014	605.24	60				19	PA-231	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-210	LANL ER-130 Modified	2.91E+00	1.86E+00	1.87E+00	3.06E+00	1.50E+00	pCi/g	4/18/2014	605.24	60				19	PB-210	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-212	LANL ER-130 Modified	2.00E+00	3.55E-01	3.69E-01	3.88E-01	1.90E-01	pCi/g	4/18/2014	605.24	60				19	PB-212	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Lead-214	LANL ER-130 Modified	9.76E-01	2.46E-01	2.51E-01	4.36E-01	2.11E-01	pCi/g	4/18/2014	605.24	60				19	PB-214	
14-04118-19	TRG	FEEBRIS08-1.044-045	04/13/14 00:00	4/17/2014	5/19/2014	14-04118	Thallium-208	LANL ER-130 Modified	1.60E+00	3.57E-01	3.66E-01	2.93E-01	3.39E-01	pCi/g	4/18/2014	605.24	60				19	TL-208	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample;MBL=Blank;DUP=Duplicate;TRG=Normal Sample;DO=Duplicate Original;CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG: **14-04119**
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Actinium-227	EML Th-01 Modified	9.15E-02	7.94E-02	8.02E-02	8.91E-02	pCi/g	4/21/2014	1	170	6.15		19	02	AC-227		0.0050
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Actinium-227	EML Th-01 Modified	8.88E-02	7.49E-02	7.57E-02	7.93E-02	pCi/g	4/21/2014	1.052	170	6.32		16.9	03	AC-227		0.0040
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Actinium-227	EML Th-01 Modified	8.40E-02	6.70E-02	6.78E-02	6.03E-02	pCi/g	4/21/2014	1.052	170	6.66		19.3	04	AC-227		0.0020
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Actinium-227	EML Th-01 Modified	8.55E-02	5.97E-02	6.07E-02	4.72E-02	pCi/g	4/21/2014	1.3	170	8.66		18.9	05	AC-227		0.0020
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Actinium-227	EML Th-01 Modified	6.91E-02	6.39E-02	6.45E-02	7.32E-02	pCi/g	4/21/2014	1.062	170	5.32		18.7	06	AC-227		0.0040
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Actinium-227	EML Th-01 Modified	5.26E-02	6.37E-02	6.40E-02	8.94E-02	pCi/g	4/21/2014	1.046	170	3.32		17.3	07	AC-227		0.0040
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Actinium-227	EML Th-01 Modified	5.44E-02	6.03E-02	6.07E-02	8.15E-02	pCi/g	4/21/2014	1.11	170	4		16.9	08	AC-227		0.0000
14-04119-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	5.48E+00	1.48E-01			pCi/g	4/21/2014	1	170	438		18.2	01	TH-230	5.4775	0.0060
14-04119-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	5.66E+00	8.59E-01	1.11E+00	8.14E-02	pCi/g	4/21/2014	1	170	438		18.2	01	TH-230	5.4775	0.0060
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	1.28E-01	9.34E-02	9.47E-02	9.57E-02	pCi/g	4/21/2014	1	170	8.81		19	02	TH-230		0.0070
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	8.37E-01	2.53E-01	2.73E-01	8.22E-02	pCi/g	4/21/2014	1.052	170	61		16.9	03	TH-230		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	5.50E-01	1.84E-01	1.96E-01	5.88E-02	pCi/g	4/21/2014	1.052	170	44.7		19.3	04	TH-230		0.0020
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	5.84E-01	1.73E-01	1.88E-01	4.61E-02	pCi/g	4/21/2014	1.3	170	60.7		18.9	05	TH-230		0.0020
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	4.88E-01	1.74E-01	1.84E-01	6.65E-02	pCi/g	4/21/2014	1.062	170	38.5		18.7	06	TH-230		0.0030
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	3.09E-01	1.49E-01	1.54E-01	9.27E-02	pCi/g	4/21/2014	1.046	170	20		17.3	07	TH-230		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-230	EML Th-01 Modified	6.35E-01	2.09E-01	2.23E-01	5.54E-02	pCi/g	4/21/2014	1.11	170	47.8		16.9	08	TH-230		0.0010
14-04119-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	4.87E+00	1.75E-01			pCi/g	4/21/2014	1	170	402		18.2	01	TH-232	4.8655	0.0010
14-04119-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	5.18E+00	7.99E-01	9.21E-01	5.38E-02	pCi/g	4/21/2014	1	170	402		18.2	01	TH-232	4.8655	0.0010
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	2.60E-02	5.96E-02	5.97E-02	1.16E-01	pCi/g	4/21/2014	1	170	1.79		19	02	TH-232		0.0130
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	4.36E-01	1.70E-01	1.75E-01	9.02E-02	pCi/g	4/21/2014	1.052	170	31.8		16.9	03	TH-232		0.0070
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	4.03E-01	1.52E-01	1.56E-01	5.13E-02	pCi/g	4/21/2014	1.052	170	32.8		19.3	04	TH-232		0.0010
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	5.19E-01	1.61E-01	1.68E-01	5.77E-02	pCi/g	4/21/2014	1.3	170	54		18.9	05	TH-232		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	4.24E-01	1.60E-01	1.64E-01	6.64E-02	pCi/g	4/21/2014	1.062	170	33.5		18.7	06	TH-232		0.0030
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	1.31E-01	9.40E-02	9.47E-02	8.10E-02	pCi/g	4/21/2014	1.046	170	8.49		17.3	07	TH-232		0.0030
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Thorium-232	EML Th-01 Modified	5.67E-01	1.95E-01	2.01E-01	5.53E-02	pCi/g	4/21/2014	1.11	170	42.8		16.9	08	TH-232		0.0010

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-04119**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04119-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	8.01E+00	2.88E-01			pCi/g	4/21/2014	1	170.02	444		13.9	01	U-234	8.0052	0.0070
14-04119-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	7.14E+00	1.08E+00	1.19E+00	1.06E-01	pCi/g	4/21/2014	1	170.02	444		13.9	01	U-234	8.0052	0.0070
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	4.83E-02	5.32E-02	5.33E-02	7.24E-02	pCi/g	4/21/2014	1	170	4		17.5	02	U-234		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	7.46E-01	1.97E-01	2.04E-01	4.73E-02	pCi/g	4/21/2014	1.052	170	65.8		18.2	03	U-234		0.0010
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	7.62E-01	2.02E-01	2.09E-01	5.55E-02	pCi/g	4/21/2014	1.052	170	65.7		17	04	U-234		0.0020
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	5.78E-01	1.67E-01	1.72E-01	5.06E-02	pCi/g	4/21/2014	1.3	170	54.7		18.1	05	U-234		0.0020
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	3.06E-01	1.19E-01	1.21E-01	6.54E-02	pCi/g	4/21/2014	1.062	170	28		16.3	06	U-234		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	2.18E-01	1.05E-01	1.07E-01	5.90E-02	pCi/g	4/21/2014	1.046	170	17.7		15.9	07	U-234		0.0020
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-234	EML U-02 Modified	4.21E-01	1.42E-01	1.45E-01	6.19E-02	pCi/g	4/21/2014	1.11	170	38.3		18.5	08	U-234		0.0040
14-04119-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	5.42E-01	2.16E-01	2.20E-01	1.12E-01	pCi/g	4/21/2014	1	170.02	27.3		13.9	01	U-235		0.0040
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	-2.53E-03	2.96E-02	2.96E-02	6.22E-02	pCi/g	4/21/2014	1	170	-0.17		17.5	02	U-235		0.0010
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	5.59E-02	6.16E-02	6.17E-02	8.38E-02	pCi/g	4/21/2014	1.052	170	4		18.2	03	U-235		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	2.86E-02	4.87E-02	4.87E-02	8.58E-02	pCi/g	4/21/2014	1.052	170	2		17	04	U-235		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	1.08E-02	2.60E-02	2.60E-02	5.45E-02	pCi/g	4/21/2014	1.3	170	0.83		18.1	05	U-235		0.0010
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	2.69E-02	4.58E-02	4.58E-02	8.07E-02	pCi/g	4/21/2014	1.062	170	2		16.3	06	U-235		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	9.13E-02	7.95E-02	7.98E-02	9.12E-02	pCi/g	4/21/2014	1.046	170	6		15.9	07	U-235		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-235	EML U-02 Modified	1.10E-01	8.12E-02	8.15E-02	8.11E-02	pCi/g	4/21/2014	1.11	170	8.15		18.5	08	U-235		0.0050
14-04119-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	7.80E+00	2.81E-01			pCi/g	4/21/2014	1	170.02	476		13.9	01	U-238	7.8030	0.0210
14-04119-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	7.63E+00	1.14E+00	1.26E+00	1.51E-01	pCi/g	4/21/2014	1	170.02	476		13.9	01	U-238	7.8030	0.0210
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	2.00E-02	3.39E-02	3.39E-02	5.75E-02	pCi/g	4/21/2014	1	170	1.66		17.5	02	U-238		0.0020
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	8.90E-01	2.18E-01	2.27E-01	4.71E-02	pCi/g	4/21/2014	1.052	170	78.8		18.2	03	U-238		0.0010
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	8.06E-01	2.08E-01	2.16E-01	4.82E-02	pCi/g	4/21/2014	1.052	170	69.8		17	04	U-238		0.0010
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	4.85E-01	1.52E-01	1.55E-01	6.32E-02	pCi/g	4/21/2014	1.3	170	46		18.1	05	U-238		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	4.74E-01	1.50E-01	1.53E-01	5.19E-02	pCi/g	4/21/2014	1.062	170	43.7		16.3	06	U-238		0.0020
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	1.21E-01	7.73E-02	7.78E-02	5.12E-02	pCi/g	4/21/2014	1.046	170	9.83		15.9	07	U-238		0.0010
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	4/23/2014	14-04119	Uranium-238	EML U-02 Modified	4.77E-01	1.51E-01	1.55E-01	5.23E-02	pCi/g	4/21/2014	1.11	170	43.7		18.5	08	U-238		0.0020

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical
Final Report of Analysis

Report To:

Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:

SDG:	**14-04119**
Purchase Order:	BT-026-PO1
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04119-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00				pCi/g	4/18/2014	1	30				01	CO-60	130.4300	0.0000
14-04119-01	LCS	KNOWN	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00				pCi/g	4/18/2014	1	30				01	CS-137	82.9600	0.0000
14-04119-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Cobalt-60	LANL ER-130 Modified	1.36E+02	8.94E+00	1.14E+01	1.48E+00	1.42E+00	pCi/g	4/18/2014	1	30				01	CO-60	130.4300	0.0000
14-04119-01	LCS	SPIKE	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Cesium-137	LANL ER-130 Modified	9.00E+01	8.31E+00	9.51E+00	2.02E+00	1.00E+00	pCi/g	4/18/2014	1	30				01	CS-137	82.9600	0.0000
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Actinium-228	LANL ER-130 Modified	1.06E-01	1.39E-01	1.39E-01	2.78E-01	1.22E-01	pCi/g	4/18/2014	1	60				02	AC-228		0.0000
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Bismuth-214	LANL ER-130 Modified	-1.89E-02	8.73E-02	8.73E-02	1.40E-01	6.28E-02	pCi/g	4/18/2014	1	60				02	BI-214		0.0000
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Potassium-40	LANL ER-130 Modified	2.78E-01	3.93E-01	3.93E-01	8.39E-01	3.51E-01	pCi/g	4/18/2014	1	60				02	K-40		0.0000
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Protactinium-231	LANL ER-130 Modified	3.94E-01	1.36E+00	1.36E+00	2.01E+00	9.33E-01	pCi/g	4/18/2014	1	60				02	PA-231		0.0000
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-210	LANL ER-130 Modified	4.54E-01	4.97E-01	4.97E-01	7.99E-01	3.80E-01	pCi/g	4/18/2014	1	60				02	PB-210		0.0000
14-04119-02	MBL	BLANK	04/17/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-214	LANL ER-130 Modified	4.08E-03	9.26E-02	9.26E-02	1.28E-01	5.88E-02	pCi/g	4/18/2014	1	60				02	PB-214		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Actinium-228	LANL ER-130 Modified	1.02E+00	2.04E-01	2.10E-01	3.94E-01	1.87E-01	pCi/g	4/18/2014	500.92	60				03	AC-228		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Bismuth-214	LANL ER-130 Modified	1.44E+00	2.13E-01	2.25E-01	2.27E-01	1.09E-01	pCi/g	4/18/2014	500.92	60				03	BI-214		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Potassium-40	LANL ER-130 Modified	1.95E+01	2.31E+00	2.52E+00	9.63E-01	4.44E-01	pCi/g	4/18/2014	500.92	60				03	K-40		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Protactinium-231	LANL ER-130 Modified	6.73E-01	1.46E+00	1.46E+00	2.38E+00	1.14E+00	pCi/g	4/18/2014	500.92	60				03	PA-231		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-210	LANL ER-130 Modified	1.83E+00	1.23E+00	1.23E+00	2.01E+00	9.83E-01	pCi/g	4/18/2014	500.92	60				03	PB-210		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-212	LANL ER-130 Modified	1.28E+00	1.56E-01	1.69E-01	3.02E-01	1.49E-01	pCi/g	4/18/2014	500.92	60				03	PB-212		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-214	LANL ER-130 Modified	1.50E+00	1.68E-01	1.84E-01	2.42E-01	1.17E-01	pCi/g	4/18/2014	500.92	60				03	PB-214		0.0000
14-04119-03	DUP	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Thallium-208	LANL ER-130 Modified	1.04E+00	2.66E-01	2.72E-01	3.65E-01	1.76E-01	pCi/g	4/18/2014	500.92	60				03	TL-208		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Actinium-228	LANL ER-130 Modified	1.26E+00	2.69E-01	2.76E-01	5.28E-01	2.54E-01	pCi/g	4/18/2014	500.95	60				04	AC-228		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Bismuth-214	LANL ER-130 Modified	1.31E+00	1.97E-01	2.08E-01	2.13E-01	1.02E-01	pCi/g	4/18/2014	500.95	60				04	BI-214		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Potassium-40	LANL ER-130 Modified	1.96E+01	2.30E+00	2.51E+00	7.98E-01	3.62E-01	pCi/g	4/18/2014	500.95	60				04	K-40		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Protactinium-231	LANL ER-130 Modified	-6.24E-01	1.52E+00	1.52E+00	2.34E+00	1.12E+00	pCi/g	4/18/2014	500.95	60				04	PA-231		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-210	LANL ER-130 Modified	1.44E+00	9.44E-01	9.47E-01	1.54E+00	7.46E-01	pCi/g	4/18/2014	500.95	60				04	PB-210		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-212	LANL ER-130 Modified	1.23E+00	1.53E-01	1.66E-01	2.94E-01	1.45E-01	pCi/g	4/18/2014	500.95	60				04	PB-212		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-214	LANL ER-130 Modified	1.46E+00	1.71E-01	1.86E-01	2.66E-01	1.30E-01	pCi/g	4/18/2014	500.95	60				04	PB-214		0.0000
14-04119-04	DO	FEEBRISWL-119.009-010	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Thallium-208	LANL ER-130 Modified	1.20E+00	2.63E-01	2.70E-01	3.16E-01	1.52E-01	pCi/g	4/18/2014	500.95	60				04	TL-208		0.0000

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample;MBL=Blank;DUP=Duplicate;TRG=Normal Sample;DO=Duplicate Original;CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Dan Feezor
Feezor Engineering, Inc.
406 East Walnut Street
Chatham, IL 62629

Work Order Details:
SDG: 14-04119
Purchase Order: BT-026-PO1
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units	Aliquot Date	Aliquot Net Equiv	Count Time	Counts	Effective Efficiency	% Eff	Fraction	Isotope	Known LCS	Background CPM
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Actinium-228	LANL ER-130 Modified	1.32E+00	2.29E-01	2.39E-01	4.15E-01	1.96E-01	pCi/g	4/18/2014	476.02	60				05	AC-228		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Bismuth-214	LANL ER-130 Modified	1.41E+00	2.00E-01	2.13E-01	2.44E-01	1.17E-01	pCi/g	4/18/2014	476.02	60				05	BI-214		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Potassium-40	LANL ER-130 Modified	1.87E+01	2.37E+00	2.56E+00	1.10E+00	5.09E-01	pCi/g	4/18/2014	476.02	60				05	K-40		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Protactinium-231	LANL ER-130 Modified	5.53E-01	9.66E-01	9.67E-01	2.61E+00	1.25E+00	pCi/g	4/18/2014	476.02	60				05	PA-231		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-210	LANL ER-130 Modified	1.22E+00	1.29E+00	1.30E+00	2.16E+00	1.06E+00	pCi/g	4/18/2014	476.02	60				05	PB-210		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-212	LANL ER-130 Modified	1.74E+00	2.34E-01	2.51E-01	2.58E-01	1.26E-01	pCi/g	4/18/2014	476.02	60				05	PB-212		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-214	LANL ER-130 Modified	1.36E+00	2.10E-01	2.21E-01	2.58E-01	1.25E-01	pCi/g	4/18/2014	476.02	60				05	PB-214		0.0000
14-04119-05	TRG	FEEBRISWL-119.009-010D	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Thallium-208	LANL ER-130 Modified	1.13E+00	2.00E-01	2.08E-01	2.06E-01	1.86E-01	pCi/g	4/18/2014	476.02	60				05	TL-208		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Actinium-228	LANL ER-130 Modified	1.11E+00	2.30E-01	2.37E-01	4.94E-01	2.34E-01	pCi/g	4/18/2014	544.98	60				06	AC-228		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Bismuth-214	LANL ER-130 Modified	1.08E+00	1.82E-01	1.90E-01	2.82E-01	1.35E-01	pCi/g	4/18/2014	544.98	60				06	BI-214		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Potassium-40	LANL ER-130 Modified	1.65E+01	2.35E+00	2.50E+00	1.36E+00	6.33E-01	pCi/g	4/18/2014	544.98	60				06	K-40		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Protactinium-231	LANL ER-130 Modified	1.21E+00	1.87E+00	1.87E+00	2.86E+00	1.37E+00	pCi/g	4/18/2014	544.98	60				06	PA-231		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-210	LANL ER-130 Modified	1.29E+00	1.16E+00	1.16E+00	1.94E+00	9.45E-01	pCi/g	4/18/2014	544.98	60				06	PB-210		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-212	LANL ER-130 Modified	1.09E+00	1.46E-01	1.57E-01	2.12E-01	1.03E-01	pCi/g	4/18/2014	544.98	60				06	PB-212		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-214	LANL ER-130 Modified	1.23E+00	1.53E-01	1.65E-01	1.80E-01	8.59E-02	pCi/g	4/18/2014	544.98	60				06	PB-214		0.0000
14-04119-06	TRG	FEEBRISWL-119.020-021	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Thallium-208	LANL ER-130 Modified	9.96E-01	1.84E-01	1.91E-01	3.98E-02	1.66E-01	pCi/g	4/18/2014	544.98	60				06	TL-208		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Actinium-228	LANL ER-130 Modified	8.78E-01	2.19E-01	2.24E-01	4.14E-01	1.89E-01	pCi/g	4/18/2014	306.39	60				07	AC-228		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Bismuth-214	LANL ER-130 Modified	5.09E-01	1.65E-01	1.67E-01	3.09E-01	1.46E-01	pCi/g	4/18/2014	306.39	60				07	BI-214		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Potassium-40	LANL ER-130 Modified	4.08E+00	1.01E+00	1.03E+00	6.87E-01	2.77E-01	pCi/g	4/18/2014	306.39	60				07	K-40		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Protactinium-231	LANL ER-130 Modified	2.73E-01	1.19E+00	1.19E+00	2.45E+00	1.13E+00	pCi/g	4/18/2014	306.39	60				07	PA-231		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-210	LANL ER-130 Modified	2.18E+00	1.00E+00	1.01E+00	1.72E+00	8.25E-01	pCi/g	4/18/2014	306.39	60				07	PB-210		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-212	LANL ER-130 Modified	6.98E-01	1.29E-01	1.34E-01	3.15E-01	1.53E-01	pCi/g	4/18/2014	306.39	60				07	PB-212		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-214	LANL ER-130 Modified	4.26E-01	1.70E-01	1.71E-01	2.92E-01	1.39E-01	pCi/g	4/18/2014	306.39	60				07	PB-214		0.0000
14-04119-07	TRG	FEEBRISWL-119.040-041	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Thallium-208	LANL ER-130 Modified	4.46E-01	1.77E-01	1.79E-01	2.95E-01	2.05E-01	pCi/g	4/18/2014	306.39	60				07	TL-208		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Actinium-228	LANL ER-130 Modified	1.24E+00	2.55E-01	2.63E-01	7.55E-01	3.63E-01	pCi/g	4/18/2014	441.85	60				08	AC-228		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Bismuth-214	LANL ER-130 Modified	1.39E+00	2.15E-01	2.27E-01	2.76E-01	1.32E-01	pCi/g	4/18/2014	441.85	60				08	BI-214		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Potassium-40	LANL ER-130 Modified	2.36E+01	3.11E+00	3.34E+00	9.07E-01	3.93E-01	pCi/g	4/18/2014	441.85	60				08	K-40		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Protactinium-231	LANL ER-130 Modified	-2.88E-01	1.04E+00	1.04E+00	3.25E+00	1.55E+00	pCi/g	4/18/2014	441.85	60				08	PA-231		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-210	LANL ER-130 Modified	2.80E+00	1.79E+00	1.79E+00	2.90E+00	1.42E+00	pCi/g	4/18/2014	441.85	60				08	PB-210		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-212	LANL ER-130 Modified	1.47E+00	1.88E-01	2.03E-01	2.93E-01	1.44E-01	pCi/g	4/18/2014	441.85	60				08	PB-212		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Lead-214	LANL ER-130 Modified	1.19E+00	1.75E-01	1.85E-01	2.84E-01	1.37E-01	pCi/g	4/18/2014	441.85	60				08	PB-214		0.0000
14-04119-08	TRG	FEEBRISWL-119.041-042	04/14/14 00:00	4/17/2014	5/19/2014	14-04119	Thallium-208	LANL ER-130 Modified	1.22E+00	2.14E-01	2.23E-01	2.70E-01	4.96E-01	pCi/g	4/18/2014	441.85	60				08	TL-208		0.0000

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample;MBL=Blank;DUP=Duplicate;TRG=Normal Sample;DO=Duplicate Original;CV=Critical Value

Appendix G-2:

Eberline Analytical Data: Phase 1D Samples

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-06043-OR

July 9, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 15-06043

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		6/12/15	KBS	Sample Log-In
		7/6/15	JG	Data Compilation
		7/7/15	MKT	First Technical Data Review
		7/7/15	MR	Second Technical Data Review
		7/8/15	JG	Data Entry/Electronic Deliverable
		7/8/15	JG	Case Narrative
		7/9/15	KBS	Electronic Deliverable Proof
		7/7/15	MR	Samples Analyzed within Holding Time Yes? [X] No? [ ]
		7/7/15	MR	QA/QC Review
		07/06/15	EyT	Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: _____ _____ 7/7/15

Laboratory Manager Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7145

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: BRIDGETON	Project Number: BOR/ENG 1-D
Send Report To: CGREENE	Sampler (Print Name): B ABERNATHY
Address: 9821 Cogdill Rd 571	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method:
	Airbill Number:
Phone: 865-675-3669	Laboratory Receiving:
~~Fax:~~ CGREENE@AWWER.COM	

Page 1 of 1

15-06043

Purchase Order #: ENG/BOR 1-D

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gamma Spec	Ra-226	Ra-228	ISO Thorium	ISO Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4 FEEBRISID-09-088-089	6/11/15	0855	S	1	X	X	X	X	X	3-DAY TURNAROUND ALL EXCEPT GAMMA SPEC	

REC'D JUN 12 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Bill Abernathy	Jim Drake	6/11/15	1100
Jim Drake	FED-X	6/11/15	1130
	Kathy Shaulis	6/12/15	0845

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☐
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other 3-DAYS

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06043
Lab Deadline	6/17/2015
Analysis	UUISO - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	100	I1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0930	Kmy scej	6-12-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0800	Kmy scej	6-12-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 6/13/15 0820	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 6/15/15 1145	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 6-15-15 1145	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 6/16/15 0754	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 6/16 0754	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 6/16/15 1131	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06043
Lab Deadline	6/17/2015
Analysis	ThISO - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	100	I1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0930		6-12-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0800		6-13-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWO Re 6/13/15 0800	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWO Re 6/15/15 1145	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	6/15/15 1145	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	6/16/15 0754	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	6/16/15 0754	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	100 6/16/15 1132	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06043
Lab Deadline	6/17/2015
Analysis	Ra226 - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	100	I1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0930	Key Scy	6-12-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0800	Key Scy	6-13-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe	6/13/15 0800
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JW	6/15/15 1938
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0330 RM	6/16/15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0530 RM	6/16/15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0570	6/16
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		6/16 0922
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06043
Lab Deadline	6/19/2015
Analysis	Ra228 - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	100	I1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0930	Key Scis	6-12-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0800	Key Scis	6-13-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe	6/13/15 0800
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JW	6/15/15 1930
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0330 RM	6/16/15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0530 RM	6/16/15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0530	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0330RM	6/17/15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	1040 RM	6/18/15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB	6/18/15 1044
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB	6/18/15 1248
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06043
Lab Deadline	7/6/2015
Analysis	Gamma - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
21 day ingrowth: Report Ac228, Bi214, Pb212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.	04	100	I1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0830	Key scrj	6-12-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1135	Key scrj	6-12-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 6/12/15 1136	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	6/12 0822	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06043
Lab Deadline	See Comments
Analysis	Gamma - Level 4
Sample Matrix	SO

Comments

as follows

Re-Analysis: 21 day ingrowth: Report Ac228, Bi214, Pb212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.

Original Lab Deadline: 06/17/15
Rerun Lab Deadline: 07/06/15

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	100	I1.3

	Location (circle one)					Technician Initials	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0930	Kerry Sea	6-12-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1135	Kerry Sea	6-12-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 6/12/15	1140
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		6/17
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	Phase 1D	Environmental	06/12/2015	3	15-06043
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
Phase 1D	Bridgeton ENG/BOR 1-D	H	06/17/2015	06/17/2015	06/17/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	Ra226	Ra228	ThISO	UUISO																					Ttl
01	LCS	06/12/15	SO	I1.3	X	X	X	X	X																					5
02	BLANK	06/12/15	SO	I1.3	X	X	X	X	X																					5
03	DUP	06/12/15	SO	I1.3	X	X	X	X	X																					5
04	FEEBRISID-09-088-089	06/11/15 08:55	SO	I1.3	X	X	X	X	X																					5
																														0

Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-06043

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS (NON-AQUEOUS)

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kathy Shanks DATE: 6/12/15

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39360

July 9, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-06043-OR

SAMPLE RECEIPT

This work order contains one soil sample received 06/12/2015. This sample was analyzed for Isotopic Uranium, Isotopic Thorium, Radium-226/228 and Gamma Spectroscopy.

CLIENT ID	LAB ID
FEEBRISID-09-088-089	15-06043-04

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Radium-226 was analyzed using EPA Method 903.0 Modified. Radium-228 was analyzed using EPA Method 904.0. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

SPECIAL CIRCUMSTANCES

Due to positive Thorium-230 activity in this sample, all alpha spectroscopy results for sample fractions -03 and -04 (Client ID: FEEBRISID-09-088-089 DUP & DO) demonstrated a slightly high method detection limit.

00016

ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM

Sample was prepared by removing a representative aliquot followed by mixed acid digestions and dilutions as appropriate. An aliquot was taken from dilution and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Sample demonstrated acceptable results for all Uranium analyses. Chemical recovery was acceptable for all samples. The Uranium-234, Uranium-235 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-234 and Uranium-238 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Uranium-235 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Sample was prepared by removing a representative aliquot followed by mixed acid digestions and dilutions as appropriate. An aliquot was taken from dilution and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-228, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Sample demonstrated acceptable results for all Thorium analyses. Significant Thorium-230 activity was noted within the alpha spectra. Thorium-230 appears to be dis-equilibrated with parent and progeny radionuclides. Sample may be a raffinate or other chemical altered material. Chemical recovery was acceptable for all samples. The Thorium-228, Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-228 and Thorium-232 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Thorium-230 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-228, Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

RADIUM-226

Sample was prepared by drying, pulverizing and homogenization. A representative aliquot was removed and digested using mixed acids followed by dilutions as appropriate. An aliquot was removed from dilution and Radium-226 was precipitated as Radium sulfate using elemental Barium and Lead as carriers. Sulfates were dissolved in alkaline EDTA. Radium-226 was selectively precipitated from slightly acidic EDTA. Precipitates were then mounted by semi-micro-precipitations onto micro-porous filters. Sample was counted by alpha spectroscopy using an energy specific region of interest for Radium-226. Chemical recovery was calculated by the use of a Barium-133 tracer, which was determined by HPGe gamma spectroscopy.

ANALYTICAL RESULTS CONTINUED

RADIUM-226 CONTINUED

Sample demonstrated acceptable results for all Radium-226 analyses. Chemical recovery was acceptable for all samples. The Radium-226 method blank demonstrated an acceptable result. Results for the Radium-226 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Radium-226 laboratory control sample demonstrated an acceptable percent recovery.

RADIUM-228

Following alpha spectroscopy analysis of Radium-226, Barium/Radium Sulfate precipitates were redissolved and allowed for sufficient ingrowth of the Actinium-228 daughter. After ingrowth, Actinium-228 was selectively precipitated. Precipitates were filtered and beta emissions for Actinium-228 were then counted on a gas proportional counter. Chemical recovery was determined by the use of a Barium-133 tracer, the activity of which was determined by HPGe gamma spectroscopy and an elemental Yttrium carrier by gravimetric measurements. The product of these two recoveries was used to calculate chemical yield.

Sample demonstrated acceptable results for all Radium-228 analyses. Chemical recovery was acceptable for all samples. The Radium-228 method blank demonstrated an acceptable result. Results for the Radium-228 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Radium-228 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

1st Analytical Attempt

Sample was analyzed as received and results were reported from Gamma spectroscopy analyses prior to 21 day ingrowth of Radon-222 and progeny.

Sample demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Actinium-228 replicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Bismuth-214 and Lead-214 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

2nd Analytical Attempt

Sample was dried, homogenized and placed into an appropriate gamma spectroscopy geometry container. Sample was then sealed for 21 days to allow for ingrowth of Radon-222 and progeny. Sample was counted on a High Purity Germanium (HPGe) gamma ray detector. Energy lines from Lead-214 and Bismuth-214 were analyzed for determinations of Radium-226 activity.

ANALYTICAL RESULTS CONTINUED

GAMMA SPECTROSCOPY *2nd Analytical Attempt* CONTINUED

Sample demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Bismuth-214 and Lead-214 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Potassium-40 replicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 7/9/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
		GAMMA QUICK COUNT												
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.42E+02	8.23E+00	1.10E+01	1.08E+00	8.50E-01	pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cesium-137	LANL ER-130 Modified	9.38E+01	8.30E+00	9.60E+00	1.44E+00	7.15E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Actinium-228	LANL ER-130 Modified	4.84E-02	5.79E-02	5.80E-02	1.15E-01	5.06E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.45E-02	4.30E-02	4.30E-02	7.09E-02	3.24E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Lead-212	LANL ER-130 Modified	1.92E-02	3.92E-02	3.92E-02	5.54E-02	2.61E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Lead-214	LANL ER-130 Modified	3.56E-02	2.63E-02	2.63E-02	6.27E-02	2.88E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Radium-226	LANL ER-130 Modified	1.45E-02	4.30E-02	4.30E-02	7.09E-02	3.32E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Radium-228	LANL ER-130 Modified	4.84E-02	5.79E-02	5.80E-02	1.15E-01	5.06E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Thorium-234	LANL ER-130 Modified	2.73E-01	2.47E-01	2.48E-01	4.39E-01	2.05E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Thallium-208	LANL ER-130 Modified	-1.38E-02	6.03E-02	6.03E-02	9.04E-02	4.07E-02	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Actinium-228	LANL ER-130 Modified	2.25E-01	4.37E-01	4.38E-01	6.81E-01	3.25E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.84E+01	1.12E+00	1.46E+00	5.63E-01	2.74E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-212	LANL ER-130 Modified	6.39E-01	2.67E-01	2.69E-01	6.95E-01	3.44E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-214	LANL ER-130 Modified	2.22E+01	1.35E+00	1.77E+00	6.75E-01	3.32E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-226	LANL ER-130 Modified	1.84E+01	1.12E+00	1.46E+00	5.63E-01	3.84E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-228	LANL ER-130 Modified	2.25E-01	4.37E-01	4.38E-01	6.81E-01	3.25E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thorium-234	LANL ER-130 Modified	1.29E+01	4.16E+00	4.21E+00	1.03E+01	5.10E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thallium-208	LANL ER-130 Modified	4.23E-01	1.62E-01	1.64E-01	2.23E-01	3.11E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Actinium-228	LANL ER-130 Modified	9.56E-01	4.93E-01	4.96E-01	9.04E-01	4.36E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.67E+01	1.17E+00	1.45E+00	5.63E-01	2.75E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-212	LANL ER-130 Modified	5.11E-01	2.69E-01	2.70E-01	7.59E-01	3.76E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-214	LANL ER-130 Modified	2.21E+01	1.35E+00	1.76E+00	6.67E-01	3.28E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-226	LANL ER-130 Modified	1.67E+01	1.17E+00	1.45E+00	5.63E-01	3.66E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-228	LANL ER-130 Modified	9.56E-01	4.93E-01	4.96E-01	9.04E-01	4.36E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thorium-234	LANL ER-130 Modified	1.61E+00	3.11E+00	3.11E+00	5.97E+00	2.95E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thallium-208	LANL ER-130 Modified	2.61E-01	1.40E-01	1.40E-01	1.76E-01	3.82E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
		GAMMA 21 DAY INGROWTH												
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.42E+02	8.28E+00	1.10E+01	7.65E-01	5.43E-01	pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cesium-137	LANL ER-130 Modified	9.23E+01	8.28E+00	9.54E+00	1.05E+00	5.20E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Actinium-228	LANL ER-130 Modified	2.04E-02	7.13E-02	7.13E-02	1.18E-01	5.20E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Bismuth-214	LANL ER-130 Modified	4.63E-02	4.99E-02	5.00E-02	8.45E-02	3.92E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Potassium-40	LANL ER-130 Modified	1.89E-01	2.33E-01	2.33E-01	3.88E-01	1.68E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Lead-212	LANL ER-130 Modified	7.98E-03	4.10E-02	4.10E-02	5.39E-02	2.53E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Lead-214	LANL ER-130 Modified	3.94E-02	4.17E-02	4.17E-02	6.75E-02	3.12E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Radium-226	LANL ER-130 Modified	4.63E-02	4.99E-02	5.00E-02	8.45E-02	3.35E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Radium-228	LANL ER-130 Modified	2.04E-02	7.13E-02	7.13E-02	1.18E-01	5.20E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Thorium-234	LANL ER-130 Modified	3.39E-01	2.63E-01	2.64E-01	4.71E-01	2.21E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Thallium-208	LANL ER-130 Modified	6.95E-03	5.26E-02	5.26E-02	8.59E-02	3.85E-02	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Actinium-228	LANL ER-130 Modified	8.73E-01	4.80E-01	4.82E-01	8.89E-01	4.28E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.56E+01	1.13E+00	1.38E+00	4.84E-01	2.35E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Potassium-40	LANL ER-130 Modified	5.29E+00	1.66E+00	1.68E+00	2.21E+00	1.04E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-212	LANL ER-130 Modified	5.09E-01	1.94E-01	1.96E-01	6.96E-01	3.44E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-214	LANL ER-130 Modified	2.23E+01	1.52E+00	1.90E+00	5.83E-01	2.86E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-226	LANL ER-130 Modified	1.56E+01	1.13E+00	1.38E+00	4.84E-01	3.88E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-228	LANL ER-130 Modified	8.73E-01	4.80E-01	4.82E-01	8.89E-01	4.28E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thorium-234	LANL ER-130 Modified	1.95E+00	3.03E+00	3.03E+00	4.56E+00	2.24E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thallium-208	LANL ER-130 Modified	5.58E-01	1.83E-01	1.85E-01	1.84E-01	3.02E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Actinium-228	LANL ER-130 Modified	8.14E-01	4.41E-01	4.43E-01	8.26E-01	3.96E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.58E+01	1.13E+00	1.39E+00	2.95E-01	2.50E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Potassium-40	LANL ER-130 Modified	6.90E+00	1.76E+00	1.80E+00	2.12E+00	9.97E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-212	LANL ER-130 Modified	-7.90E+00	9.38E-01	1.02E+00	4.23E-01	2.08E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-214	LANL ER-130 Modified	2.18E+01	1.49E+00	1.86E+00	6.12E-01	3.00E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-226	LANL ER-130 Modified	1.58E+01	1.13E+00	1.39E+00	2.95E-01	3.73E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-228	LANL ER-130 Modified	8.14E-01	4.41E-01	4.43E-01	8.26E-01	3.96E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thorium-234	LANL ER-130 Modified	4.68E+00	3.10E+00	3.11E+00	4.72E+00	2.33E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thallium-208	LANL ER-130 Modified	5.38E-01	3.55E-01	3.56E-01	3.92E-01	2.77E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	1.02E+01	4.68E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	1.06E+01	1.24E+00	2.57E+00	1.64E-01	7.36E-03	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	8.60E-02	1.11E-01	1.12E-01	1.54E-01	7.21E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	3.87E+01	4.98E+00	9.58E+00	7.39E-01	2.94E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	4.02E+01	5.17E+00	9.94E+00	1.05E+00	7.97E-02	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	8.34E+00	4.26E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	6.80E+00	8.33E-01	1.75E+00	1.18E+00	2.64E-04	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	7.46E-01	5.79E-01	6.03E-01	1.16E+00	2.27E-04	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	2.29E+00	2.13E+00	2.19E+00	4.30E+00	9.69E-04	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	3.58E+00	2.17E+00	2.31E+00	4.24E+00	1.01E-03	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-228	EML Th-01 Modified	4.94E+00	1.78E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-228	EML Th-01 Modified	5.08E+00	9.06E-01	1.02E+00	1.13E-01	1.97E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-228	EML Th-01 Modified	8.17E-02	6.79E-02	6.84E-02	8.22E-02	1.99E-02	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-228	EML Th-01 Modified	3.56E-01	2.71E-01	2.73E-01	2.50E-01	2.78E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-228	EML Th-01 Modified	1.10E-01	2.46E-01	2.46E-01	4.65E-01	1.84E-01	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	5.34E+00	1.44E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	6.01E+00	1.04E+00	1.27E+00	9.42E-02	8.23E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	6.89E-02	5.96E-02	6.02E-02	6.71E-02	5.52E-02	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	9.00E+02	1.39E+02	1.78E+02	1.98E-01	2.01E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	9.06E+02	1.42E+02	1.81E+02	2.89E-01	2.38E-01	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	4.94E+00	1.78E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	5.09E+00	9.09E-01	1.01E+00	1.07E-01	1.68E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	2.97E-02	3.86E-02	3.87E-02	5.35E-02	4.82E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	2.75E+00	8.30E-01	8.65E-01	2.83E-01	4.45E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	3.76E+00	1.03E+00	1.08E+00	3.76E-01	1.03E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	8.04E+00	2.90E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	7.41E+00	1.02E+00	1.15E+00	6.34E-02	5.75E-03	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	1.64E-01	1.02E-01	1.03E-01	7.37E-02	6.68E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	3.22E+00	8.75E-01	9.05E-01	2.46E-01	2.23E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	3.41E+00	9.58E-01	9.89E-01	2.42E-01	1.53E-02	pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	4.06E-01	1.67E-01	1.69E-01	6.83E-02	3.09E-03	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	1.11E-01	9.24E-02	9.27E-02	7.93E-02	3.58E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	1.16E-01	1.77E-01	1.78E-01	2.64E-01	1.19E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	6.19E-01	4.28E-01	4.30E-01	3.42E-01	2.33E-02	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	7.84E+00	2.82E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	7.07E+00	9.81E-01	1.10E+00	7.92E-02	8.91E-04	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	0.00E+00	4.25E-02	4.25E-02	9.20E-02	1.03E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	2.84E+00	8.14E-01	8.39E-01	2.68E-01	2.95E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	3.23E+00	9.33E-01	9.61E-01	3.46E-01	3.89E-03	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

SECTION V

ANALYTICAL STANDARD

QA/QC REVIEWED
Date 1/16/95 Initials [illegible]

U-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution:	65.2896 g in a 50 ml flame sealed ampoule
b. Chemical form:	Uranyl Nitrate in H2O
c. Carrier content:	None
d. Density:	Approximately 1.3202 g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC, ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
3017 N. SAN FERNANDO BLVD.
BURBANK, CALIFORNIA 91504
818·843·7000 FAX 818·843·6168

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

		CURRENT DATE	9/2/2014 0:00
SOLUTION REFERENCE #	IPL 479-50	SOLUTION #	U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide	$^{234, 235, 238}U$	Reference Date	1/1/1995 0:00
Certified Activity	8.016E+00 µCi		
Certified Concentration	µCi per gram		

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution

Uranyl nitrate in dilute HNO_3

Dilution Instructions: **Dilution Solvent Used** 1M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 8.0160 µCi **Which Equals** 1.780E+07 **dpm at the date listed above**

And after dilution the activity of this solution is 1.77955E+04 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 11/01/03
Title: **Radioactive Reference Standards Solutions & Records**

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009

Solution Reference # IPL 479-50 **Date** 9/2/2014 0:00 **Solution #** U-8a

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest $^{234, 235, 238}U$ **Reference Date** 1/1/1995 0:00
Parent Solution Conc. 1.7796E+04 **dpm/ml**

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions: **Dilution Solvent Used** 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 4.0000 **ml**
Total Activity: 7.1182E+04 **dpm**
Final Volume: 1000.00 **ml**

Final Activity Concentration: 7.1182E+01 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.35€ grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Method of measurement (see reverse of this certificate)

Accuracy Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity The isotopic composition, expressed as atom per cent at the reference date .

Not measured

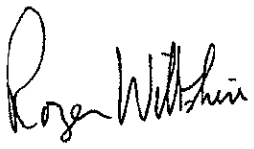
Chemical Composition Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory



Project Ref. AE2315

Roger Wiltshire

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

AEA Technology is the trading name of AEA Technology plc

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 11/11/2014 0:00

SOLUTION REFERENCE # AEA/Amersham 92/232/67 **SOLUTION #** U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide ^{232}U **Reference Date** 3/1/2000 0:00

Certified Activity 9.760E-01 µCi

Certified Concentration µCi per gram

Ampoule /Solution Gross Weight, Grams

Empty Ampoule Weight, Grams

Solution Net Weight, Grams

Total Activity in Ampoule 0.9760 µCi

Chemical Composition of Standard Solution

$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions: **Dilution Solvent Used** 2M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.9760 µCi **Which Equals** 2.167E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.167E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 10/3/14

EBERLINE SERVICES | QUALITY CONTROL PROGRAM
MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	11/11/2014 0:00
Solution Reference #	AEA/Amersham 92/232/67	Solution #	U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest	^{232}U	Reference Date	3/1/2000 0:00
Parent Solution Conc.	2.167E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions: **Dilution Solvent Used** 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000	ml
Total Activity:	2.1670E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 2.1670E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405 ± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 μCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)	
b. Chemical form:	$Th(NO_3)_4$ in water	
c. Carrier content:	None added	
d. Density:	Approx. 1.21	g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 μCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 9/2/2014 0:00

SOLUTION REFERENCE # IPL 435-104-2 **SOLUTION #** Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide $^{232\&228}Th$
Reference Date 11/1/1993 0:00
Certified Activity 9.330E-02 µCi
Certified Concentration µCi per gram

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in H_2O

Dilution Instructions: **Dilution Solvent Used** 1% Nitric Acid

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.0933 µCi **Which Equals** 2.071E+05 **dpm at the date listed above**

And after dilution the activity of this solution is 2.071E+02 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 435-104-2	Solution #	Th-8b

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{228\ \&\ 232}$Th	1.405E+10	5.132E+12

Radionuclide of Interest: $^{228\ \&\ 232}$Th
Parent Solution Conc.: 2.07E+02 dpm/ml

Reference Date: 11/1/1993 0:00

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions:

Dilution Solvent Used: 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	500.0000	ml
Total Activity:	1.0355E+05	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 1.0355E+02 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

QA/QC REVIEWED
Date 10/14/91 Initials WT 10/14/91 WT

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 µCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 µCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

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EBERLINE SERVICES

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MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 4/15/2015 0:00

SOLUTION REFERENCE #: IPL 388-116 | SOLUTION #: Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide: ^{230}Thorium
Reference Date: 11/1/1991 0:00
Certified Activity: 1.036E+00 µCi
Certified Concentration: µCi per gram

Ampoule /Solution Gross	9.2660	Weight, Grams
Empty Ampoule	4.6218	Weight, Grams
Solution Net	4.6442	Weight, Grams
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution

$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1N HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 1.0360 µCi Which Equals 2.300E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.300E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

EBERLINE SERVICES | QUALITY CONTROL PROGRAM
MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	4/15/2015 0:00
Solution Reference #	IPL 388-116	Solution #	Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest: ^{230}Thorium
Parent Solution Conc.: 2.30E+03 dpm/ml

Reference Date: 11/1/1991 0:00

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2999E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2999E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity: (Th-229 only)**	1.013 µCi 37.48 kBq

Physical Description:

A. Mass of solution:	5.0147 g in 5 mL flame-sealed ampoule
B. Chemical form:	$Th(NO_3)_4$ in 0.1M HNO_3
C. Carrier content:	10µg Th/mL
D. Density:	1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.

Peak energy used for integration:	193.5 keV
Branching ratio used:	0.0441 gammas per decay

Uncertainty of Measurement:

A. Type A (random) uncertainty:	± 0.7 %
B. Type B (systematic) uncertainty:	± 3.0 %
C. Uncertainty in aliquot weighing:	± 0.0 %
D. Total uncertainty at the 99% confidence level:	± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 867-54 | SOLUTION #: Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide: ^{229}Th
Certified Activity: 1.013E+00 µCi
Certified Concentration: µCi per gram

Reference Date: 1/15/2002 0:00

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1 M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 1.0130 µCi Which Equals 2.249E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.249E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 867-54	Solution #	Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide of Interest	^{229}Th	
Parent Solution Conc.	2.25E+03	dpm/ml

Reference Date: 1/15/2002 0:00

Chemical Composition of Standard Solution
$TH(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000	ml
Total Activity:	2.2490E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 2.2490E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Ba-6
(#6a)

National Institute of Standards & Technology

Certificate

ORIGINAL

Standard Reference Material 4251C
Barium-133 Radioactivity Standard

ORIGINAL

This Standard Reference Material (SRM) consists of radioactive barium-133 chloride, non-radioactive barium chloride, and hydrochloric acid dissolved in 5 mL of distilled water. The solution is contained in a flame-sealed NIST borosilicate-glass ampoule. The SRM is intended for the calibration of ionization chambers and solid-state gamma-ray spectrometry systems.

Radiological Hazard

The SRM ampoule contains barium-133 with a total activity of approximately 2.5 MBq. Barium-133 decays by electron capture and during the decay process X-rays and gamma rays with energies from 4 to 400 keV are emitted. Most of these photons escape from the SRM ampoule and can represent a radiation hazard. Approximate unshielded dose rates at several distances (as of the reference time) are given in note [a]*. Appropriate shielding and/or distance should be used to minimize personnel exposure. The SRM should be used only by persons qualified to handle radioactive material.

Chemical Hazard

The SRM ampoule contains hydrochloric acid (HCl) with a concentration of 1 mole per liter of water. The solution is corrosive and represents a health hazard if it comes in contact with eyes or skin. If the ampoule is to be opened to transfer the solution, the recommended procedure is given on page 2. The ampoule should be opened only by persons qualified to handle both radioactive material and strong acid solution.

Storage and Handling

The SRM should be stored and used at a temperature between 5 and 65 °C. The solution in an unopened ampoule should remain stable and homogeneous until at least June 2004.

The ampoule (or any subsequent container) should always be clearly marked as containing radioactive material. If the ampoule is transported it should be packed, marked, labeled, and shipped in accordance with the applicable national, international, and carrier regulations. The solution in the ampoule is a dangerous good (hazardous material) both because of the radioactivity and because of the strong acid.

Preparation

This Standard Reference Material was prepared in the Physics Laboratory, Ionizing Radiation Division, Radioactivity Group, J.M.R. Hutchinson, Group Leader. The overall technical direction and physical measurements leading to certification were provided by L.L. Lucas of the Radioactivity Group and D.B. Golas, Nuclear Energy Institute Research Associate.

The support aspects involved in the preparation, certification, and issuance of this SRM were coordinated through the Standard Reference Materials Program by N.M. Trahey.

Gaithersburg, Maryland 20899
October 1994

Thomas E. Gills, Chief
Standard Reference Materials Program

*Notes and references are on pages 5 and 6.

: 08641

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

QCP-009

Rev.8; 11/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
QCP 009-1

SOLUTION REFERENCE #	NIST SRM4251C	CURRENT DATE	7/2/2015 0:00
		SOLUTION #	Ba-6

Principal Radionuclide	Half Life, Years	Half Life, Days
^{133}Barium	1.048E+01	3.828E+03

Radionuclide	^{133}Barium	Reference Date	9/1/1993 0:00
Certified Activity		µCi	
Certified Concentration	1.318E+01	µCi per gram	

Ampoule /Solution Gross	9.3081	Weight, Grams
Empty Ampoule	4.2582	Weight, Grams
Solution Net	5.0499	Weight, Grams
Total Activity in Ampoule	66.5577	µCi

Chemical Composition of Standard Solution

$^{133}BaCl_2$ in 1M HCl

Dilution Instructions: **Dilution Solvent Used** 1M HCl

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 66.5577 µCi **Which Equals** 1.478E+08 **dpm at the date listed above**

And after dilution the activity of this solution is 1.478E+05 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: May 8, 2016

Verified & Approved By _____ Date: 7/2/15

QC Approval _____ Date: 7-6-15

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
QCP-009

Rev.8; 11/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	QCP-009-1-A	Date	7/2/15
Solution Reference #	NIST SRM4251C	Solution #	Ba-6a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{133}Ba	1.048E+01	3.828E+03

Radionuclide of Interest	^{133}Ba	Reference Date	9/1/1993 0:00
Parent Solution Conc.	1.48E+05 dpm/ml		

Chemical Composition of Standard Solution
$^{133}BaCl_2$ in 1M HCl

Dilution Instructions: **Dilution Solvent Used** 1M HCl

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	25.0000	ml
Total Activity:	3.6950E+06	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 3.6950E+03 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: May 8, 2016

Verified & Approved By _____ Date: 7/2/15

QC Approval _____ Date: 7-6-15

Ra-5

QA/QC REVIEWED
Date 2/8/94 Initials MR

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Ra-226	Customer:	TMA EBERLINE
Half Life:	1600 ± 7 years	P.O.No.:	VH1888
Catalog No.:	7226	Reference Date:	February 1 1994 12:00 PST.
Source No.:	453-26	Contained Radioactivity: (Ra-226)	1.001 μCi.
		Contained Radioactivity: (Ra-226)	37.0 kBq.

Description of Solution

a. Mass of solution:	5.1864 g (in a 5 ml Flame Sealed Ampoule)
b. Chemical form:	Ra(NO3)2 in 1 N HNO3
c. Carrier content:	None added
d. Density:	1.0318 g/ml @ 20°C.

Radioimpurities: None detected(other than daughters)

Radioactive Daughters

Rn-222, Po-218, At-218, Pb-214, Bi-214, Po-214, Tl-210, Pb-210, Bi-210, Po-210 and Tl-206.

Radionuclide Concentration

(Ra-226) 0.1929 μCi/g.

Method of Calibration

Weighed aliquots of the solution were assayed using gamma spectrometry:
Energy peak(s) integrated under: 186 keV.
Branching ratio(s) used: 0.0351 gamma rays per decay.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.4%
b. Random uncertainty in assay:	±3.1%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±4.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Ana U. Kuen
QUALITY CONTROL

Feb. 3, 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP 009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 11/11/2014 0:00

SOLUTION REFERENCE # IPL 453-26 **SOLUTION #** Ra-5

Principal Radionuclide	Half Life, Years	Half Life, Days
^{226}Radium	1.600E+03	5.844E+05

Radionuclide ^{226}Radium
Certified Activity 1.001E+00 µCi
Certified Concentration µCi per gram

Reference Date 2/1/1994 0:00

Ampoule /Solution Gross Weight, Grams
Empty Ampoule Weight, Grams
Solution Net Weight, Grams
Total Activity in Ampoule 1.0010 µCi

Chemical Composition of Standard Solution
$^{226}Ra(NO_3)_2$ in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used 1M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0010 µCi **Which Equals** 2.222E+06 **dpm at the date listed above**

And after dilution the activity of this solution is **2.222E+03** **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: October 24, 2015

Verified & Approved By _____ Date: 11/11/2014

QC Approval _____ Date: 11/13/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP 009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP 009	Date	11/11/2014 0:00
Solution Reference #	IPL-453-26	Solution #	Ra-5b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{226}Radium	1.600E+03	5.844E+05

Radionuclide of Interest	^{226}Radium	Reference Date	2/1/1994 0:00
Parent Solution Conc.	2.22E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{226}Ra(NO_3)_2$ in 1M HNO_3

Dilution Instructions: **Dilution Solvent Used** 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	20.0000	ml
Total Activity:	4.4440E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 4.4440E+01 dpm/ml
This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: October 24, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

RA-11

ANALYTICS

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318 · U.S.A.

Phone (404) 352-8677
Fax (404) 352-2837

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

62680-416

Ra-228 5 mL Liquid in Flame Sealed Vial

This standard radionuclide source was prepared gravimetrically from a calibrated master solution. The master solution was calibrated using a germanium gamma spectrometer system.

Radionuclide purity and calibration were checked using a germanium gamma spectrometer system. The nuclear decay rate and assay date for this source are given below.

ANALYTICS maintains traceability to the National Institute of Standards and Technology through Measurements Assurance Programs as described in USNRC Reg. Guide 4.15, Revision 1.

ISOTOPE:	Ra-228
ACTIVITY (dps):	2.585 E3
HALF-LIFE:	5.75 years
CALIBRATION DATE:	November 7, 2001 12:00 EST
TOTAL UNCERTAINTY*:	4.0%
SYSTEMATIC:	3.0%
RANDOM:	1.0%

*99% Confidence Level

Impurities: γ-impurities (other than decay products) <0.1%

5.07198 grams 0.1M HCl solution with 50 μg/g Ba carrier.

P O NUMBER 9508, Item 1 (Part #4339A)

SOURCE PREPARED BY: M. D. Currie
M. D. Currie, Radiochemist

Q A APPROVED: [signature] 11/7/01

New vial from the 6/11/01 Shipment.
R.S. Different activity Level [initials] 8/9/11

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
RECERTIFICATION
MP 009

CURRENT DATE 4/15/2015 0:00

SOLUTION REFERENCE # Analytics 62680-416 **SOLUTION #** Ra-11

Principal Radionuclide	Half Life, Years	Half Life, Days
^{228}Ra	5.750E+00	2.100E+03

Radionuclide ^{228}Ra
Reference Date 11/7/2001 0:00
Certified Activity 6.986E-02 µCi
Certified Concentration µCi per gram

Ampoule /Solution Gross	9.4982	Weight, Grams
Empty Ampoule	4.4895	Weight, Grams
Solution Net	5.0087	Weight, Grams
Total Activity in Ampoule	0.0699	µCi

Chemical Composition of Standard Solution
$^{228}Ra(NO_3)_2$ in 0.5 M HCl

Dilution Instructions: **Dilution Solvent Used** 0.5 M HCl

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.0699 µCi **Which Equals** 1.551E+05 **dpm at the date listed above**

And after dilution the activity of this solution is 1.551E+02 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: March 4, 2016

Recertified By _____ Date: 4/15/15

QC Approval _____ Date: 4/15/15

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION
Standard Radionuclide Source

GAS-1402

98503

Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00049

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	UUISO	1	pCi	g	Auxier & Associates, Inc.

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		92.11%	15.52%	100.00%	3.60%	8.04E+00	2.90E-01	7.41E+00	1.15E+00	U-8a	3.52E+01	3.60E+00	5.07E-01
U-238		90.10%	15.62%	100.00%	3.60%	7.84E+00	2.82E-01	7.07E+00	1.10E+00	U-8a	3.44E+01	3.60E+00	5.07E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

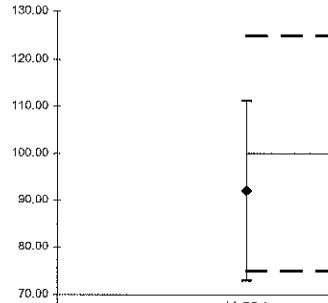
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	0.27	5.67	3.41E+00	9.89E-01	3.22E+00	9.05E-01
U-238	0.60	12.87	3.23E+00	9.61E-01	2.84E+00	8.39E-01
U-235	2.12	136.85	6.19E-01	4.30E-01	1.16E-01	1.78E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.92	OK				OK	OK
0.90	OK				OK	OK
	OK				NA	OK

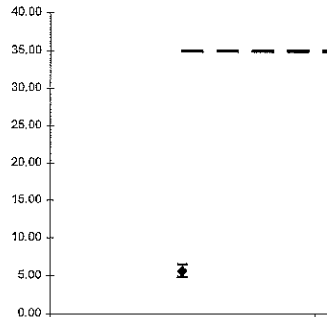
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	UUISO	1	pCi	g	Auxier & Associates, Inc.

LCS % Recovery



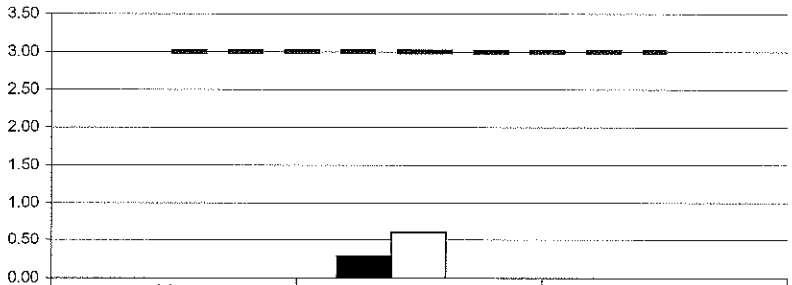
	U-234	U-238
Lower Error	72.99	70.89
Upper Error	111.22	109.32
%R	92.11	90.10
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	6.48	14.78	193.43
Upper Error	4.86	10.96	80.28
RPD	5.67	12.87	136.85
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	0.27	0.00
U-238	0.00	0.60	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	ThISO	1	pCi	g	Auxier & Associates, Inc.

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		102.83%	20.19%	100.00%	3.60%	4.94E+00	1.78E-01	5.08E+00	1.02E+00	Th-8b	1.04E+02	3.60E+00	1.06E-01
TH-230		112.40%	21.23%	100.00%	2.70%	5.34E+00	1.44E-01	6.01E+00	1.27E+00	Th-1b	2.35E+01	2.70E+00	5.04E-01
TH-232		103.18%	19.90%	100.00%	3.60%	4.94E+00	1.78E-01	5.09E+00	1.01E+00	Th-8b	1.04E+02	3.60E+00	1.06E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

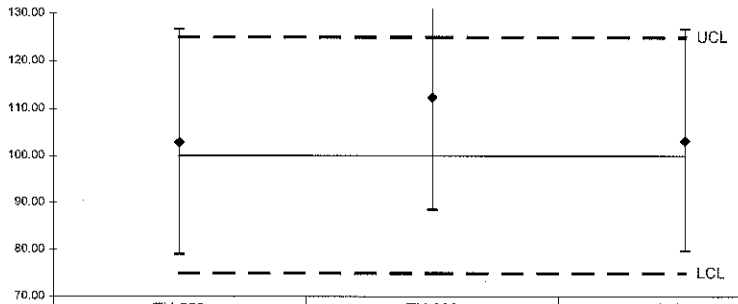
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	1.32	105.88	1.10E-01	2.46E-01	3.56E-01	2.73E-01
TH-230	0.05	0.65	9.06E+02	1.81E+02	9.00E+02	1.78E+02
TH-232	1.43	31.02	3.76E+00	1.08E+00	2.75E+00	8.65E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.03	OK				NA	OK
1.12	OK				OK	OK
1.03	OK				INV	OK

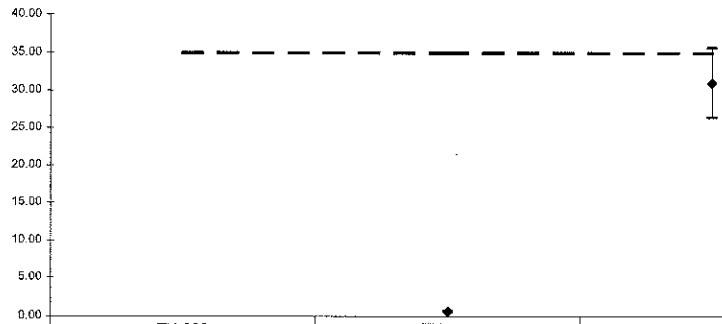
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	ThISO	1	pCi	g	Auxier & Associates, Inc.

LCS % Recovery



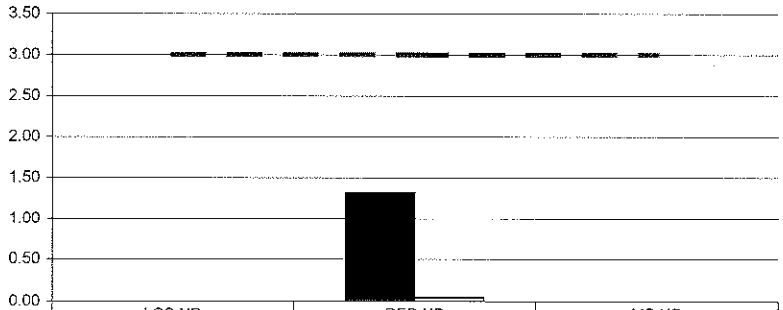
	TH-228	TH-230	TH-232
Lower Error	79.04	88.48	79.68
Upper Error	126.62	136.33	126.68
%R	102.83	112.40	103.18
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	164.81	0.72	35.66
Upper Error	46.96	0.59	26.38
RPD	105.88	0.65	31.02
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	1.32	0.00
TH-230	0.00	0.05	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Ra226	1	pCi	g	Auxier & Associates, Inc.

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
RA-226		104.64%	24.14%	100.00%	4.60%	1.02E+01	4.68E-01	1.06E+01	2.57E+00	Ra-5b	4.40E+01	4.60E+00	5.13E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

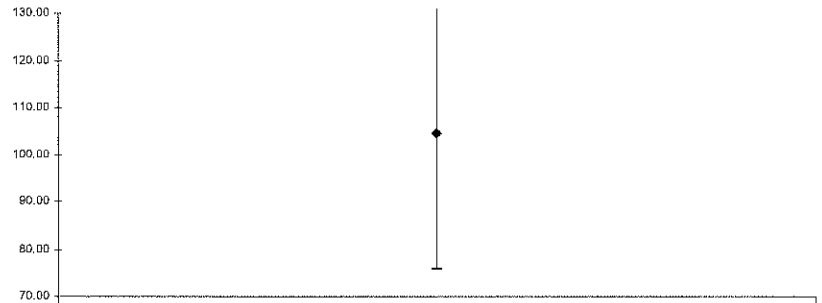
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
RA-226	0.21	3.74	4.02E+01	9.94E+00	3.87E+01	9.58E+00

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.05	OK				OK	OK

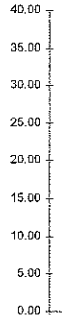
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Ra226	1	pCi	g	Auxier & Associates, Inc.

LCS % Recovery



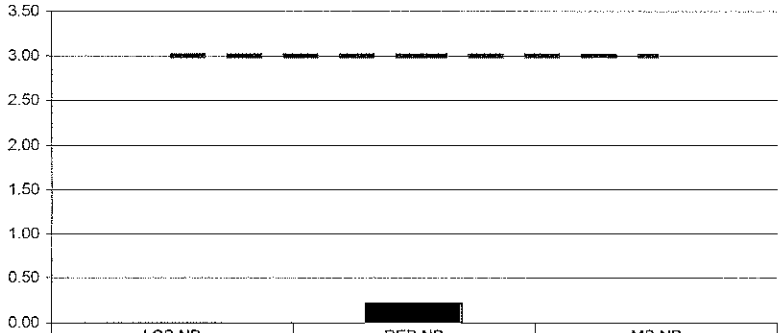
	RA-226
Lower Error	75.89
Upper Error	133.38
%R	104.64
LCL	75
Mean	100
UCL	125

Replicate Sample RPD



	RA-226
Lower Error	4.20
Upper Error	3.28
RPD	3.74
CL	35

Normalized Difference



	LCS ND	REP ND	MS ND
RA-226	0.00	0.21	0.00
UCL	3	3	3

No Matrix Spike

Version

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Ra228	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
RA-228		81.47%	25.75%	100.00%	5.10%	8.34E+00	4.26E-01	6.80E+00	1.75E+00	Ra-11	3.01E+01	5.10E+00	6.16E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

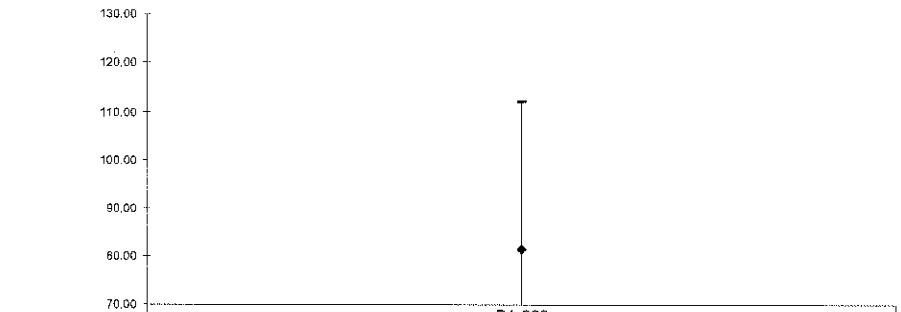
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
RA-228	0.79	43.89	3.58E+00	2.31E+00	2.29E+00	2.19E+00

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.81	OK				NA	OK

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Ra228	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



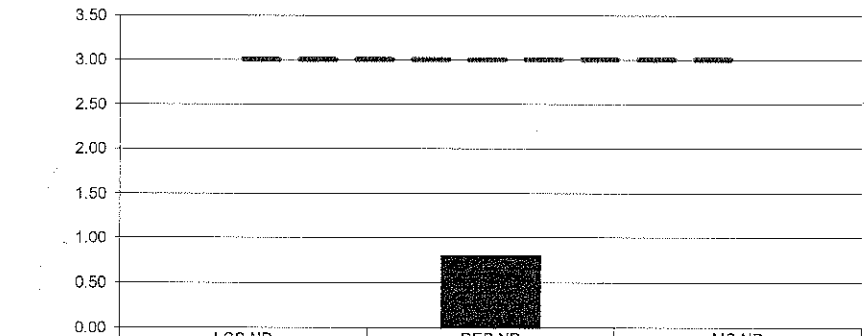
	RA-228
Lower Error	50.62
Upper Error	112.31
%R	81.47
LCL	75
Mean	100
UCL	125

Replicate Sample RPD



	RA-228
Lower Error	60.74
Upper Error	27.03
RPD	43.89
CL	35

Normalized Difference



	LCS ND	REP ND	MS ND
RA-228	0.00	0.79	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Gamma	1	pCi	g	Auxier & Associates, Inc.

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		103.95%	7.73%	100.00%	4.00%	1.37E+02	5.48E+00	1.42E+02	1.10E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		107.86%	10.24%	100.00%	4.00%	8.69E+01	3.48E+00	9.38E+01	9.60E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

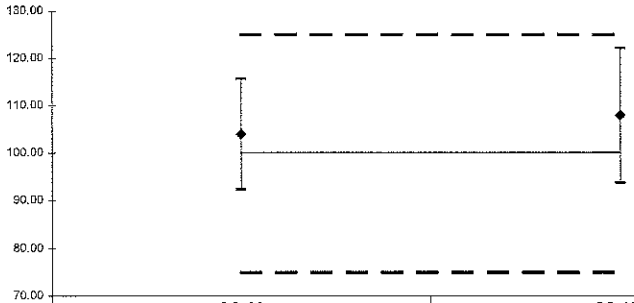
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
AC-228	2.17	123.82	9.56E-01	4.96E-01	2.25E-01	4.38E-01
BI-214	1.66	9.98	1.67E+01	1.45E+00	1.84E+01	1.46E+00
PB-214	0.09	0.49	2.21E+01	1.76E+00	2.22E+01	1.77E+00

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.04	OK		<CS-137	AC-228>	NA	
1.08	OK		<CO-60	BI-214>	NA	OK
				PB-214>	NA	OK

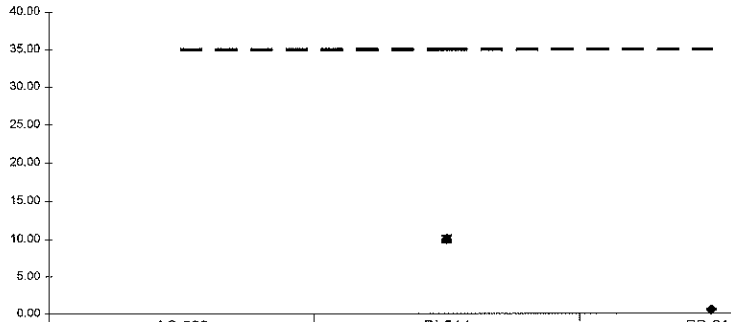
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Gamma	1	pCi	g	Auxier & Associates, Inc.

LCS % Recovery



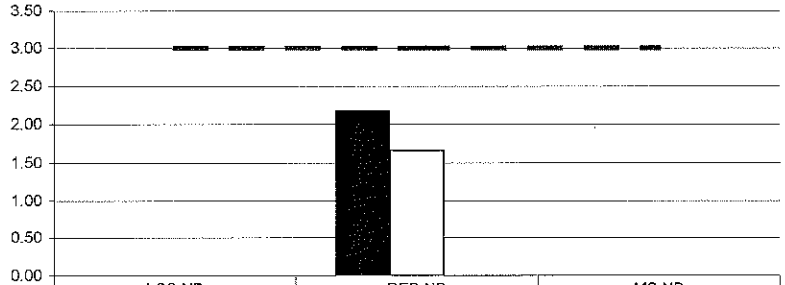
	CO-60	CS-137
Lower Error	92.22	93.62
Upper Error	115.67	122.10
%R	103.95	107.86
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	AC-228	BI-214	PB-214
Lower Error	172.76	10.40	0.51
Upper Error	74.88	9.57	0.47
RPD	123.82	9.98	0.49
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	2.17	0.00
CS-137	0.00	1.66	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Gamma	2	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		103.46%	7.77%	100.00%	4.00%	1.37E+02	5.48E+00	1.42E+02	1.10E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		106.15%	10.34%	100.00%	4.00%	8.69E+01	3.48E+00	9.23E+01	9.54E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

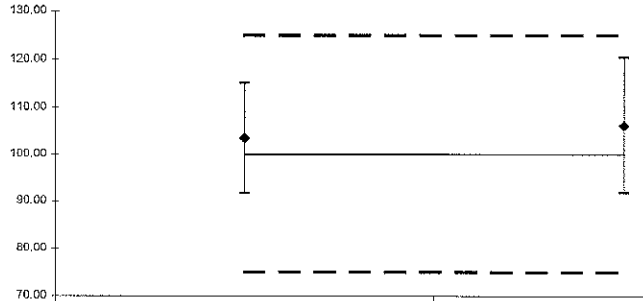
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
BI-214	0.26	1.65	1.58E+01	1.39E+00	1.56E+01	1.38E+00
K-40	1.28	26.39	6.90E+00	1.80E+00	5.29E+00	1.68E+00
PB-214	0.37	2.30	2.18E+01	1.86E+00	2.23E+01	1.90E+00

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.03	OK		<CS-137	BI-214>	NA	
1.06	OK		<CO-60	K-40>	NA	OK
				PB-214>	NA	OK

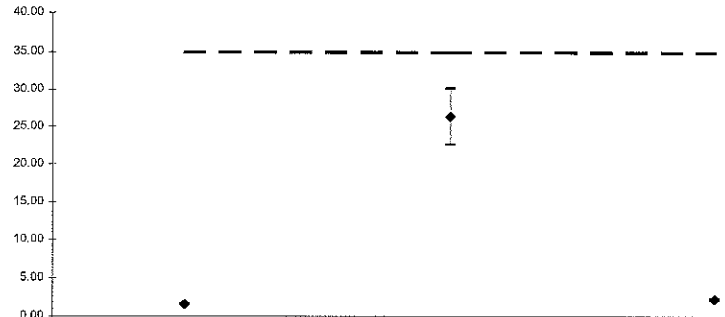
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06043	Gamma	2	pCi	g	AMO Environmental Decisions

LCS % Recovery



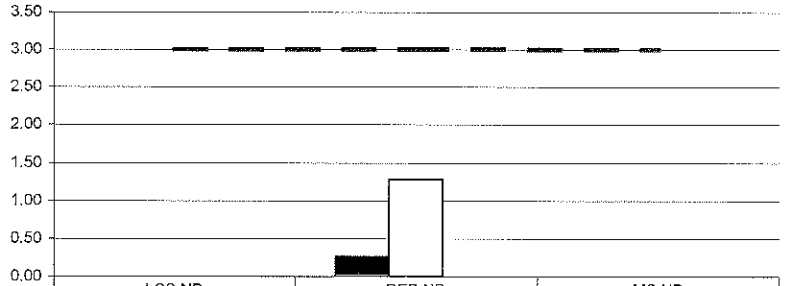
	CO-60	CS-137
Lower Error	91.69	91.81
Upper Error	115.23	120.50
%R	103.46	106.15
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	Bi-214	K-40	Pb-214
Lower Error	1.73	30.16	2.40
Upper Error	1.58	22.62	2.20
RPD	1.65	26.39	2.30
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.26	0.00
CS-137	0.00	1.28	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

Version

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:46	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACIDS AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS

JWolfe
6/15/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:46	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACIDS AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS
2	06/15/15 16:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

6/15/15

EBERLINE SERVICES **Work Order Analysis Notes**	**Oak Ridge Laboratory** **601 Scarboro Rd.** **Oak Ridge, TN 37830** **Voice: 865.481.0683** **www.eberlineservices.com**	Internal Work Order	15-06043
		Analysis Code	UUISO
		Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:46	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACIDS AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS
2	06/15/15 16:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100 ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	06/16/15 04:59	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

6/16/15
JMS

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order: 15-06043

Analysis Code: UUISO

Run: 1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	6/15/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	6/15/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	6/15/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	6/15/2015
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	6/15/2015
016444S	HCl - HF	6.5N - 0.04N	JDEMELAS	6/15/2015
016082D07	Hydrochloric Acid	0.5N	JDEMELAS	6/15/2015
016495S	Hydrochloric Acid	8N	JDEMELAS	6/15/2015
016332P	Hydrochloric Acid	Reagent Grade	JDEMELAS	6/15/2015
016511S	HCl - NH4I	8N - 0.1M	JDEMELAS	6/15/2015
016431S	Hydrochloric Acid	6.5N	JDEMELAS	6/15/2015
016440S	Carbon substrate	Solution	TSMITH	6/16/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	6/16/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	6/16/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	6/16/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	6/16/2015

Alpha # 7

Date	Sample #	Client	Load Time	Time	Analyst	Tele
6/16	1506047A(1-4)	Auxier	0670	2h5	Rub	—
6/16	1506051A(4)	Eberline	0871	2h5	UHTSO	—
6/16	1506047A(1-4)	Auxier	0872	2h5	UHTSO	—
6/16	1506045A(1-4)	USA	0872	2h5	UHTSO	—
6/16	1506047A(1-4)	Auxier	0873	2h5	THTSO	—
6/16	1506045A(1-4)	USA	0873	2h5	THTSO	—
~~6/16~~	1506070A(1-5)	~~Ledoux~~ Ledoux	ch	~~6h~~		
6/16	1506070A(1-5)	Ledoux	0875	5h75	UHTSO	—

ISO TH NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:45	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACIDS AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS

JWolfe
6/15/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:45	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACIDS AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS
2	06/15/15 16:35	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

6/15/15

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Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:45	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACIDS AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS
2	06/15/15 16:35	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
3	06/16/15 05:01	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Preicpitated and filtered samples for Thorium)

6/16/15 JWW

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order: 15-06043

Analysis Code: ThISO

Run: 1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	6/15/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	6/15/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	6/15/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	6/15/2015
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	6/15/2015
016495S	Hydrochloric Acid	8N	JDEMELAS	6/15/2015
016332P	Hydrochloric Acid	Reagent Grade	JDEMELAS	6/15/2015
016403P	Nitric Acid	Reagent Grade	JDEMELAS	6/15/2015
016499S	Nitric Acid	8N	JDEMELAS	6/15/2015
016440S	Carbon substrate	Solution	TSMITH	6/16/2015
016288S	Cerrium Carrier	0.1mg/ml	TSMITH	6/16/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	6/16/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	6/16/2015

Alpha # 7

Date	Sample #	Client	Lead Time	Time	Analyst	Tele
6/16	1506047A(1-4)	Auxier	0670	2h5	Rub	—
6/16	1506051A(4)	Eberline	0871	2h5	UHTSO	—
6/16	1506047A(1-4)	Auxier	0872	2h5	UHTSO	—
6/16	1506045A(1-4)	USA	0872	2h5	UHTSO	—
6/16	1506047A(1-4)	Auxier	0873	2h5	THTSO	—
6/16	1506045A(1-4)	USA	0873	2h5	THTSO	—
~~6/16~~	1506070A(1-5)	~~Ledoux~~ Ledoux	ch	~~6h~~		
6/16	1506070A(1-5)	Ledoux	0875	5h75	UHTSO	—

RA-226 NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	Ra226
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:53	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACID AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- PH'D SAMPLES- PRECIPITATED WITH POTASSIUM SULFATE AND BA AND PB CARRIERS- DECANTED SAMPLES AND CENTRIFUGED- ADDED .25M EDTA TO PRECIP, VORTEXED AND PUT SAMPLES IN A HOT WATER BATH- VORTEXED AND CHECKED PH- CENTRIFUGED AND TRANSFERRED SUPERNATE INTO CLEAN C-TUBES AND SUBMITTED TO SEPARATIONS

JWolfe
6/15/15

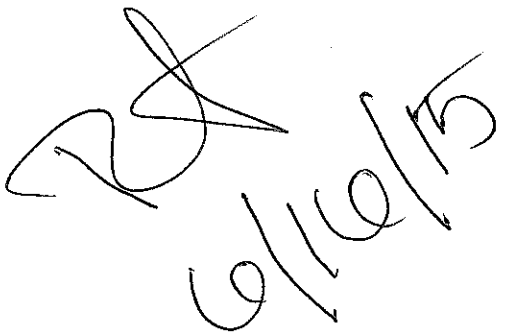
EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	Ra226
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:53	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACID AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- PH'D SAMPLES- PRECIPITATED WITH POTASSIUM SULFATE AND BA AND PB CARRIERS- DECANTED SAMPLES AND CENTRIFUGED- ADDED .25M EDTA TO PRECIP, VORTEXED AND PUT SAMPLES IN A HOT WATER BATH- VORTEXED AND CHECKED PH- CENTRIFUGED AND TRANSFERRED SUPERNATE INTO CLEAN C-TUBES AND SUBMITTED TO SEPARATIONS
2	06/16/15 04:11	CHEM	RMARTZ	ADDED EDTA TO SAMPLES AND LET SIT OVERNIGHT. SYRINGE FILTERED SAMPLES, ADDED AMMONIUM SILFIDE AND ACETIC ACID TO SAMPLES. FILTERED ONTO TARRED FILTER PAPERS, LET DRY UNDER HEAT LAMP, REWEIGHED, AND SUBMITTED TO COUNT.



EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-06043	
Analysis Code	Run
Ra226	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
015857P	Ammonium Hydroxide	Reagent Grade	JWOLFE	6/15/2015
015186D16	Barium Carrier	1 mg/ml	JWOLFE	6/15/2015
016000S	EDTA	0.25M	JWOLFE	6/15/2015
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	6/15/2015
016022S	Lead Carrier	40 mg/ml	JWOLFE	6/15/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	6/15/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	6/15/2015
016396P	Potassium Sulfate	Reagent Grade	JWOLFE	6/15/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	6/15/2015
013820P	Acetic Acid	Reagent Grade	RMARTZ	6/16/2015
014409D01	Ammonium Sulfate	200 mg/ml	RMARTZ	6/16/2015
015500S	EDTA	0.25M	RMARTZ	6/16/2015

Alpha # 3

Date	Sample #	Client	Lead Time	Time	Analyst	File
6/11/[illegible]	1506047A(1-4)	Auxier	0670	2h5[illegible]	[illegible]	C

RA-228 NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	Ra228
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:53	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACID AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- PH'D SAMPLES- PRECIPITATED WITH POTASSIUM SULFATE AND BA AND PB CARRIERS- DECANTED SAMPLES AND CENTRIFUGED- ADDED .25M EDTA TO PRECIP, VORTEXED AND PUT SAMPLES IN A HOT WATER BATH- VORTEXED AND CHECKED PH- CENTRIFUGED AND TRANSFERRED SUPERNATE INTO CLEAN C-TUBES AND SUBMITTED TO SEPARATIONS

JWolfe
6/15/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06043
Analysis Code	Ra228
Run Number	1

#	Date	Dept	User	Notes
1	06/15/15 09:53	PREP	JWOLFE	ALIQUOTED AND ADDED HF AND DRIED SAMPLE DOWN- ADDED MIXED ACID AND TOOK SAMPLE TO DRYNESS- REDISSOLVED SAMPLE WITH HNO3 AND WATER AND DILUTED- ALIQUOTED FROM DILUTION AND ADDED SPIKES AND TRACERS- PH'D SAMPLES- PRECIPITATED WITH POTASSIUM SULFATE AND BA AND PB CARRIERS- DECANTED SAMPLES AND CENTRIFUGED- ADDED .25M EDTA TO PRECIP, VORTEXED AND PUT SAMPLES IN A HOT WATER BATH- VORTEXED AND CHECKED PH- CENTRIFUGED AND TRANSFERRED SUPERNATE INTO CLEAN C-TUBES AND SUBMITTED TO SEPARATIONS
2	06/18/15 06:09	CHEM	RMARTZ	ADDED FILTER PAPERS FROM COUNT ROOM TO LABELED C-TUBES, FILLED WITH EDTA SOLUTION AND LET SIT OVERNIGHT. REMOVED FILTER FROM EDTA-ADDED 13 DROPS CONC HNO3, 2MLS YTTRIUM 9MG/ML CARRIER, 2MLS 1.5MG/ML PB CARRIER, 0.3 MLS AMMONIUM SULFITE, 25 DROPS OF 10M SODIUM HYDROXIDE, SHAKE SAMPLES, CENTRIFUGE, POUR SUPERNATE INTO CLEAN C-TUBE AND ADD 0.3MLS AMMONIUM SULFITE AND 2MLS 1.5MG/ML PB CARRIER, SHAKE SAMPLES, CENTRIFUGE, RINSE OTHER C-TUBES WITH DI-H2O THEN SYRINGE FILTER SUPERNATE BACK INTO RINSED C-TUBES. ADDED 18N NAOH TO SAMPLES AND RECORDED T1. HOT BATHED FOR 15 MIN, CENTRIFUGED AND DISCARDED SUPERNANT. ADDED 6N HNO3, DI WATER, AND 10N NAOH. HOT BATHED FOR 15 MIN, CENTRIFUGED AND DISCARDED SUPERNANT. ADDED 1N HNO3, DI WATER, AND AMMONIUM OXALATE. FILTERED ONTO TARRED FILTER PAPERS. LET DRY UNDER HEAT LAMP, REWEIGHED AND SUBMITTED TO COUNT.

RA 6/18/15

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-06043	
Analysis Code	Run
Ra228	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
015857P	Ammonium Hydroxide	Reagent Grade	JWOLFE	6/15/2015
015186D16	Barium Carrier	1 mg/ml	JWOLFE	6/15/2015
016000S	EDTA	0.25M	JWOLFE	6/15/2015
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	6/15/2015
016022S	Lead Carrier	40 mg/ml	JWOLFE	6/15/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	6/15/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	6/15/2015
016396P	Potassium Sulfate	Reagent Grade	JWOLFE	6/15/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	6/15/2015
014530S	Ammonium Oxalate	5%	RMARTZ	6/18/2015
014409D01	Ammonium Sulfate	200 mg/ml	RMARTZ	6/18/2015
016000S	EDTA	0.25M	RMARTZ	6/18/2015
014594S	Nitric Acid	1N	RMARTZ	6/18/2015
014595S	Nitric Acid	6N	RMARTZ	6/18/2015
014591S	Sodium Hydroxide	10M	RMARTZ	6/18/2015
014456S	Sodium Hydroxide	18M	RMARTZ	6/18/2015
014466S	Yttrium Carrier	9 mg/ml	RMARTZ	6/18/2015

LB4110 RED

Date	Sample#	Client	Load Time	CT Time	Analysis	Tech
6/8	1506026AB(1,12-15)	Cal Energy	1147	2L	LIB	—
6/11	EFFAC	LAB	0510	7L	LIB	C
6/11	BLGDAC	LAB	0547	6L	LIB	
6/11	1506024Pb2(4)	UCON	0749	2L	Pb210	—
6/11	1505124S42(3,4)	UCON	0749	2L	SR90	C
6/11	EFFAC	LAB	0507	7L	LIB	C
6/11	BLGDAC	LAB	0541	6L	LIB	C
6/11	1506007S41(1)	UCON	0727	7L	SR90	C
6/11	1506025RA(2,5)	Enviro	0857	2L	RA8	—
6/11	1506025RA(1)	Enviro	0857	7L	RA8	—
6/11	1506007S41(2-4,6)	UCON	0955	2L	SR90	C
6/12	EFFAC	LAB	0506	7L	LIB	C
6/12	BLGDAC	LAB	0579	6L	LIB	C
6/12	1506077RA(1-4)	Enviro	0812	2L	RA8	—
6/12	1506024RA(2-4)	UCON	0813	2L	RA8	—
6/12	1506016RA(1)	Republic	1014	2hr	RA8	—
6/13/15	Weekly Bkgd	Lab	0948	12 hr	αβ	AG
6/15	EFFAC	LAB	0511	7L	LIB	C
6/15	BLGDAC	LAB	0545	6L	LIB	C
6/16	EFFAC	LAB	0505	7L	LIB	C
6/16	BLGDAC	LAB	0579	6L	LIB	
6/16/15	1506044AB(1-4)	USA	1042	2hrs	αβ	KB
6/16/15	1506066AB(1-3,5-13)	TexCom	1505	2hrs	αβ	KB
6/16/15	1506066AB1(4)	TexCom	1709	2hrs	αβ	KB
6/17	EFFAC	LAB	0513	7L	LIB	C
6/17	BLGDAC	LAB	0545	6L	LIB	C
6/17/15	1506050AB(1-4)	WAstren	1129	2hrs	αβ	KB
6/17/15	1506040AB(1-4)	ND	1130	2hrs	αβ	KB
6/18	EFFAC	LAB	0503	7L	LIB	C
6/18	BLGDAC	LAB	0547	6L	LIB	
6/18	1506027RA(1-8)	Accutest	0877	2L	RA8	—
6/18/15	1506043RA(1-4)	AMO Env.	1048	2hrs	Ra8	KB
6/18/15	1506037RA(1-4)	Accutest	1049	2hrs	Ra8	KB

GAMMA NOTES
RUN 1

GE 3

DATE	SAmple #	Client	Load Time	CT. Time	Analysis	Tech
6/15	1506040-01	St of ND	0950	15	Ba	C
6/15	1506040-03	St of ND	1006	15	Ba	C
6/15	1506038-02	Accutest	1022	15	Ba	C
6/15	1506038-05	Accutest	1038	15	Ba	C
6/15/15	1506038-10	Accutest	1054	15	Ba	KB
6/16	GTS 1402	LAB	0517	15	✓	C
6/16	Daily Pr	LAB	0547	15	✓	C
6/16	1506047-03	Auxier	0605	15	Ba	—
6/16	1505117-06	Weston	0624	7L	✓	—
6/16	1505117-09	Weston	0726	7L	✓	—
6/16	1506056-06	Texcom	0829	7L	✓	—
6/16	1506056-10	Texcom	0933	7L	✓	—
6/16	1506056-15	Texcom	1033	7L	✓	—
6/16	1506056-16	Texcom	1175	7L	✓	C
6/16/15	1505113-13	Weston	1234	1hr	✓	KB
6/16/15	1505113-17	Weston	1338	1hr	✓	KB
6/16/15	1505114-06	Weston	1440	1hr	✓	KB
6/16/15	1506065-03	TexCom	1543	1hr	✓	KB
6/16/15	1506065-04	TexCom	1644	1hr	✓	KB
6/16/15	1506063-03	Atmospheric	1745	2hrs	✓	KB
6/17	GTS 1402	LAB	0527	15	✓	C
6/17	Daily Pr	LAB	0545	15	✓	—
6/17	1506047-01	Auxier	0612	7L	✓	—

GE 2

DATE	SAmple #	Client	Load Time	CT. Time	Analysis	Tech
6/13/15	Chamber Blegd	Lab	0917	24 hr	γ	AG
6115	GTS 1401	LAB	0519	15	γ	C
6115	Daily B	LAB	0548	15	γ	C
6115	1506027-02	Accutest	0608	15	Bu	C
6115	1506027-06	Accutest	0629	15	Bu	
6115	1506050-03	Wastrea	0722	2L	γ	C
6115	1506050-04	Wastrea	0923	2L	γ	C
6116	GTS 1401	LAB	0513	15	γ	C
6116	Daily R	LAB	0543	15	γ	C
6116	1506043-02	Auxier	0605	15	Bu	C
6116	1505113-05	Weston	0624	7L	γ	C
6116	1505113-08	Weston	0726	7L	γ	C
6116	1506056-05	Texcom	0829	7L	γ	C
6116	1506056-09	Texcom	0933	7L	γ	C
6116	1506056-12	Texcom	1033	7L	γ	C
6116	1506056-02	Texcom	1135	7L	γ	C
6/16/15	1505113-12	Weston	1234	1 hr	γ	KB
6/16/15	1505113-16	Weston	1338	1 hr	γ	KB
6/16/15	1505114-05	Weston	1440	1 hr	γ	KB
6/16/15	1505114-07	Weston	1541	1 hr	γ	KB
6/16/15	1505114-10	Weston	1642	1 hr	γ	KB
6/16/15	1506063-01	Atmospheric	1743	15 mins	γ	KB
6/16/15	1506063-05	Atmospheric	1800	2 hrs	γ	KB
6117	GTS 1401	LAB	0523	15	γ	C
6117	Daily R	LAB	0545	15	γ	C
6117	1506043-02	Auxier	0612	7L	γ	C

GE 1

DATE	SAMPLE #	Client	Load Time	CT. Time	Analysis	Tech
6/16/15	1506063-06	Atmospheric	1811	2hrs	✓	KB
6117	GF14	LAB	0523	15	✓	[illegible]
6117	Daily R	LAB	0549	15	✓	[illegible]
6117	1506043-07	Auxier	0612	7L	✓	[illegible]
6117	1506043-04	Auxier	0713	7L	✓	[illegible]

GAMMA NOTES
RUN 2

DATE	SAmple #	Client	Load Time	GC Time	Analysis	Tech
6/29/16	1506113-01	Chevron	1141	30 mins	✓	KB
6/29/16	1506092-01	Accutest	1215	15 mins	Bz	KB
6/29/16	1506092-06	Accutest	1231	15 mins	Bz	KB
6/28	1506113-02	Chevron	1704	4h	✓	—
6/30	CCV 14	LAB	0523	15	✓	—
6/30	Blank2	LAB	0546	15	✓	—
6/30	1506043-01	UST	0712	7h	✓	—
6/30	1506043-01	AMO	0747	7h	✓	—

GE 2

DATE	Sample #	Client	Load Time	CT Time	Analysis	Tech
6/17	1506095-02	USA	0712	IL	✓	—
6/17	1506097-02	Arco	0812	IL	✓	—

GE 2

DATE	Sample #	Client	Load Time	CT. Time	Analysis	Tech
6/17	1506045-02	USA	0712	7L	✓	—
6/17	1506043-02	AMO	0812	7L	✓	—
6/30/15	1506110-02	Test America	1210	15 min	Ba	RB
6/30/15	1506116-03	Unitech	1231	1 hr	✓	RB
6/30/15	1506116-04	Unitech	1333	1 hr	✓	RB
7/1	GA-1401	LAB	0520	15	✓	C
7/1	Daily	LAB	0546	15	✓	C
7/2/15	Chamber Bkgd	Lab	1008	24 hr	✓	AG
7/1	GA-0401	LAB	0524	15	✓	C
7/1	Daily	LAB	0548	15	✓	C
7/1	1506043-03	AMO	0608	7L	✓	C
7/1	1506043-04	AMO	0712	7L	✓	C

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

15-06043
UUISO
Run 1

Work Order	15-06043
Analysis Code	UUISO
Run	1
Date Received	6/12/2015
Lab Deadline	6/17/2015
Client	Auxier & Associates, Inc.
Project	FEE BRI
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.7
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/12/15 00:00	1.0000E+00
02	MBL	BLANK		06/12/15 00:00	1.0000E+00
03	DUP	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01
04	DO	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6057	11.3		0.00								
02	MBL	0.6051	11.3		0.00								
03	DUP	0.6036	11.3		0.00								
04	DO	0.6016	11.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
UUISO
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			06/15/15 06:38	JWOLFE				
02	MBL			06/15/15 06:38	JWOLFE				
03	DUP			06/15/15 06:38	JWOLFE				
04	DO	06/15/15 08:52	KSALLINGS	06/15/15 06:38	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	7.41E+00	1.02E+00	6.34E-02	8.04E+00	92.11	OK		OK	
02	U-234	MBL	BLANK	pCi/g	1.64E-01	1.02E-01	7.37E-02					OK	OK
03	U-234	DUP	FEEBRISID-09-088-089	pCi/g	3.22E+00	8.75E-01	2.46E-01				OK	INV	
04	U-234	DO	FEEBRISID-09-088-089	pCi/g	3.41E+00	9.58E-01	2.42E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	06/12/15 00:00	1.00E+00	111.92	0.00	0.00			
02	U-234	MBL	06/12/15 00:00	1.00E+00	104.58	0.00	0.00			
03	U-234	DUP	06/11/15 08:55	2.61E-01	109.49	0.00	0.00			
04	U-234	DO	06/11/15 08:55	2.61E-01	102.64	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	06/16/15 08:32		A_Spec	Alpha_034	170	5.59 E+02	2.00 E-03	17.9
02	U-234	MBL	06/16/15 08:32		A_Spec	Alpha_035	170	1.07 E+01	2.00 E-03	16.5
03	U-234	DUP	06/16/15 08:32		A_Spec	Alpha_036	170	6.27 E+01	2.00 E-03	18.1
04	U-234	DO	06/16/15 08:32		A_Spec	Alpha_037	170	5.88 E+01	1.00 E-03	17.1

Client: Auxier & Associates, Inc.

Eberline Services Work Order: 15-06043

Analysis Code: UUISO

Run: 1

00100

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	7.07E+00	9.81E-01	7.92E-02	7.84E+00	90.10	OK		OK	
02	U-238	MBL	BLANK	pCi/g	0.00E+00	4.25E-02	9.20E-02					OK	OK
03	U-238	DUP	FEEBRISID-09-088-089	pCi/g	2.84E+00	8.14E-01	2.68E-01				OK	INV	
04	U-238	DO	FEEBRISID-09-088-089	pCi/g	3.23E+00	9.33E-01	3.46E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	06/12/15 00:00	1.00E+00	111.92	0.00	0.00			
02	U-238	MBL	06/12/15 00:00	1.00E+00	104.58	0.00	0.00			
03	U-238	DUP	06/11/15 08:55	2.61E-01	109.49	0.00	0.00			
04	U-238	DO	06/11/15 08:55	2.61E-01	102.64	0.00	0.00			

Run: 1
Analysis Code: UUISO
Eberline Services Work Order: 15-06043
Client: Auxier & Associates, Inc.

20100 :

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	06/16/15 08:32		A_Spec	Alpha_034	170	5.35 E+02	0.00 E+00	17.9
02	U-238	MBL	06/16/15 08:32		A_Spec	Alpha_035	170	1.00 E+00	0.00 E+00	16.5
03	U-238	DUP	06/16/15 08:32		A_Spec	Alpha_036	170	5.55 E+01	3.00 E-03	18.1
04	U-238	DO	06/16/15 08:32		A_Spec	Alpha_037	170	5.60 E+01	0.00 E+00	17.1

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	4.06E-01	1.67E-01	6.83E-02					OK	
02	U-235	MBL	BLANK	pCi/g	1.11E-01	9.24E-02	7.93E-02					OK	OK
03	U-235	DUP	FEEBRISID-09-088-089	pCi/g	1.16E-01	1.77E-01	2.64E-01				NA	INV	
04	U-235	DO	FEEBRISID-09-088-089	pCi/g	6.19E-01	4.28E-01	3.42E-01					INV	

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	06/12/15 00:00	1.00E+00	111.92	0.00	0.00			
02	U-235	MBL	06/12/15 00:00	1.00E+00	104.58	0.00	0.00			
03	U-235	DUP	06/11/15 08:55	2.61E-01	109.49	0.00	0.00			
04	U-235	DO	06/11/15 08:55	2.61E-01	102.64	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-UUISO-1

Client: Auxier & Associates, Inc.

Eberline Services Work Order: 15-06043

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	06/16/15 08:32		A_Spec	Alpha_034	170	2.48 E+01	1.00 E-03	17.9
02	U-235	MBL	06/16/15 08:32		A_Spec	Alpha_035	170	5.83 E+00	1.00 E-03	16.5
03	U-235	DUP	06/16/15 08:32		A_Spec	Alpha_036	170	1.83 E+00	1.00 E-03	18.1
04	U-235	DO	06/16/15 08:32		A_Spec	Alpha_037	170	8.66 E+00	2.00 E-03	17.1

Count Room Report
Client: Auxier Associates, Inc.

15-06043-UUISO-1 (pCi/g) in SO
Tracer ID: U-10a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/12/15 00:00	1.0000	0.6057	11.3266		0.00		
02	MBL	BLANK	06/12/15 00:00	1.0000	0.6051	11.3154		0.00		
03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	0.6036	11.2873		0.00		
04	DO	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	0.6016	11.2499		0.00		

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06043	1	UUISO	6/15/2015 6:35	JWOLFE		

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
U-234	U-8a	35.240	6/15/2015	0.500	0.5068				8.04	0.290	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	6/15/2015	0.500	0.5068				7.84	0.282	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	U-232	U-10a	18.700	6/15/2015	0.6057	0.6500
02	U-232	U-10a	18.700	6/15/2015	0.6051	0.6500
03	U-232	U-10a	18.700	6/15/2015	0.6036	0.6500
04	U-232	U-10a	18.700	6/15/2015	0.6016	0.6500

Balance Printer Tapes

Tracer

0.6057 g
0.6051 g
0.6036 g
0.6016 g

LCS

0.5068 g

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 6/15/2015 8:11 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06043	1	UUISO	grams	6/17/2015	JWOLFE

Lab Fraction	Auxier & Associates, Inc. Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRISID-09-088-089	DUP		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				
04	FEEBRISID-09-088-089	DO		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				

Comments	

Technician: JWolfe Date: 6/15/15

021159

EBERLINE SERVICES

	Internal Work Order	15-06043
	Fraction	**> 03 <**
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

0750

EBERLINE SERVICES	Internal Work Order	15-06043
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

00111

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 6/15/2015 8:52 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06043	6/17/2015	6/14/2015	6/15/2015	6/16/2015	KSALLINGS

Eberline	Auxier & Associates, Inc.	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRISID-09-088-089	31.9600	1331.0000	1186.0000	1299.0400	1154.0400	11.16%	88.84%	0.0000	0.0000	

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

Technician: Kenny Sallings Date: Analysis: Rough Prep Logbook

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-06043	grams	6/17/2015	KSALLINGS

Eberline Fraction	Auxier & Associates, Inc. Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRISID-09-088-089	113.0200	126.0900		13.0700		

Comments

Technician: Kenny Sallings Date: 6/12/15

Analysis: UUISO

KB 6/16/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001212
Batch Identification: 1506043A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 121305
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/16/2015 5:52:24 AM
Acquisition Date/Time: 6/16/2015 8:32:37 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.606 mL
Effective Efficiency: 0.2002 +/- 0.0112
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 1.1192 +/- 0.0658

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 0.878320 +/- 0.067581
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.276	383.00	10.03	0.00	0.00E+000	21.9
U-234		4.730	558.66	8.30	0.34	0.00E+000	30.6
U-235		4.381	24.83	39.49	0.17	0.00E+000	3.0
U-238		4.151	535.00	8.48	0.00	0.00E+000	47.9

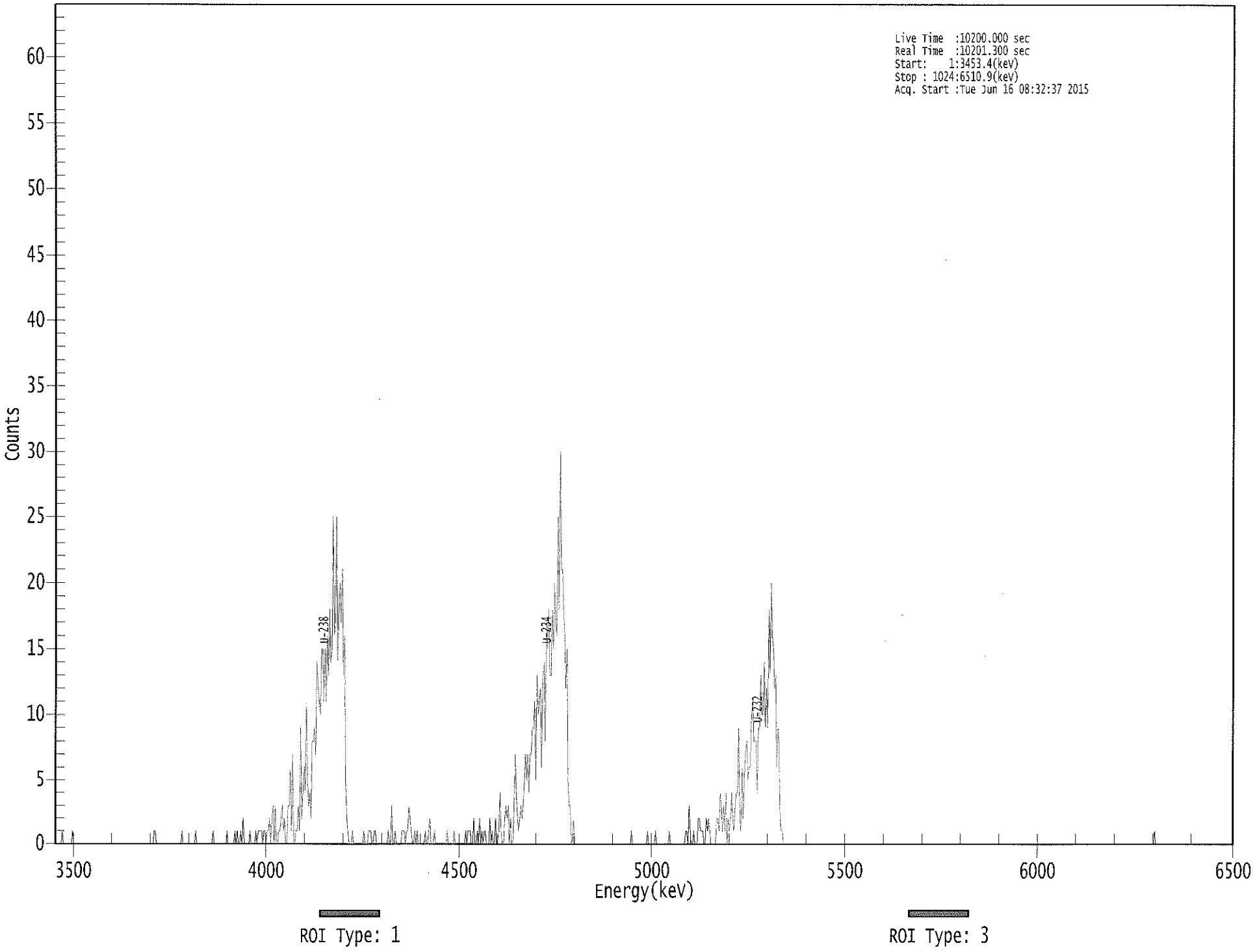
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	5.08E+000 +/- 5.59E-001	7.95E-002 +/- 8.75E-003
U-234	0.993	4761.50*	7.41E+000 +/- 1.02E+000	6.34E-002 +/- 6.97E-003
U-235	1.000	4385.50*	4.06E-001 +/- 1.67E-001	6.83E-002 +/- 7.51E-003
U-238	0.992	4184.40*	7.07E+000 +/- 9.81E-001	7.92E-002 +/- 8.71E-003

AG
6/16/15

0000121211.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	1	0
9:	0	0	0	0	0	0	0	1
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	1	1
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	1	0
113:	0	0	0	0	0	0	0	0
121:	0	0	1	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	1	0	0	0	0	0	0
145:	0	0	0	0	0	1	0	0
153:	0	0	0	0	1	0	1	0
161:	0	1	0	2	0	0	0	0
169:	0	1	0	0	0	0	1	0
177:	1	1	1	1	0	1	1	0
185:	1	1	2	0	2	3	0	3
193:	0	0	1	1	2	3	1	2
201:	0	0	3	3	6	1	7	0
209:	0	1	1	3	1	9	2	4
217:	6	4	11	5	3	4	2	8
225:	8	9	7	14	12	11	10	15
233:	15	11	15	11	16	13	18	14
241:	15	25	16	17	25	14	18	20
249:	17	21	13	16	5	2	1	0
257:	0	0	1	0	0	0	0	0
265:	0	0	0	0	1	0	0	0
273:	1	1	1	0	0	1	1	0
281:	0	0	0	0	0	0	0	0
289:	0	1	0	0	3	0	0	1
297:	0	0	0	0	0	1	1	1
305:	0	1	1	3	2	1	0	0
313:	1	0	1	0	0	0	0	0
321:	0	1	0	0	1	2	0	0
329:	0	1	0	0	0	0	0	0
337:	0	0	0	0	1	0	0	0
345:	0	0	1	0	0	0	0	0
353:	0	0	0	0	1	0	1	1
361:	1	0	0	2	0	0	1	0

369:	2	0	1	0	1	1	0	0

Sample Title: 01

Channel								
377:	0	2	0	1	0	0	2	0
385:	0	1	4	1	0	0	2	3
393:	2	3	0	2	0	0	3	7
401:	4	2	1	2	3	2	3	5
409:	7	5	7	4	7	7	9	9
417:	11	5	13	10	11	12	6	13
425:	14	8	17	15	18	13	13	18
433:	15	20	17	16	25	18	30	21
441:	21	18	16	12	15	5	3	3
449:	0	0	2	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	1	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	1	0	0	0	0	0
521:	0	1	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	1	1	0	3	1
553:	0	0	1	0	0	0	2	2
561:	1	1	1	0	0	2	1	2
569:	1	0	0	0	0	0	2	2
577:	1	4	3	1	3	1	4	0
585:	2	1	2	4	2	1	3	4
593:	4	9	2	1	6	2	6	7
601:	8	5	6	6	10	11	8	8
609:	8	4	9	9	13	10	10	14
617:	9	12	9	18	13	20	16	15
625:	12	13	6	9	8	2	1	1
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	1	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001212
Batch Identification: 1506043A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_035
Chamber Serial Number: 04026477A
Detector Serial Number: 58771
Env. Background: System Bkgd 121306
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/16/2015 5:52:24 AM
Acquisition Date/Time: 6/16/2015 8:32:31 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.605 mL
Effective Efficiency: 0.1723 +/- 0.0103
Counting Efficiency: 0.1647 +/- 0.0029 on 10/25/2014 2:34:10 PM
Chem. Recovery Factor: 1.0458 +/- 0.0652

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.230	329.32	10.81	0.68	0.00E+000	20.3
U-234		4.727	10.66	61.14	0.34	0.00E+000	3.0
U-235		4.405	5.83	82.55	0.17	0.00E+000	3.0
U-238		4.136	0.00	1960.0	0.00	0.00E+000	0.0

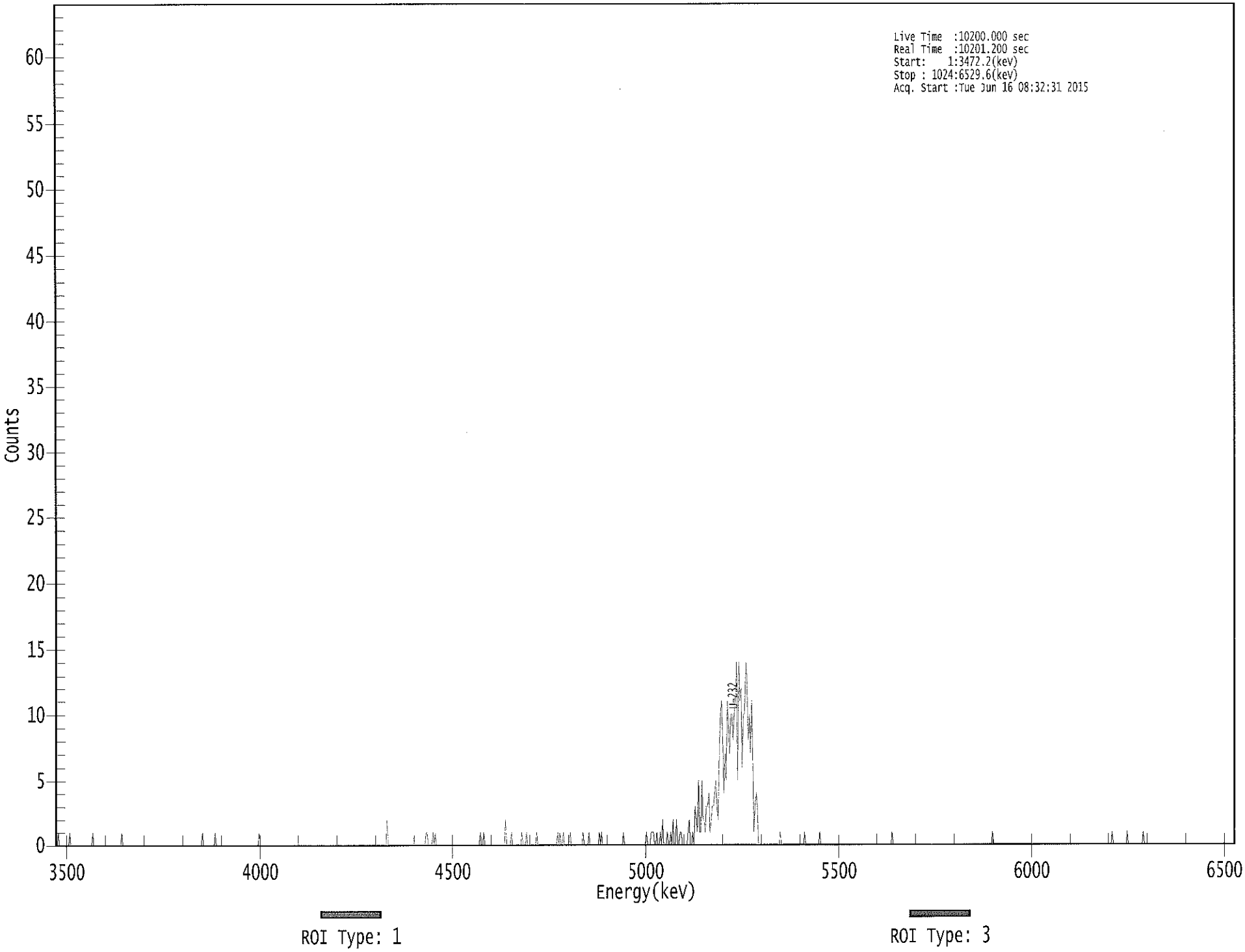
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.964	5302.50*	5.07E+000 +/- 5.95E-001	8.69E-002 +/- 1.02E-002
U-234	0.992	4761.50*	1.64E-001 +/- 1.02E-001	7.37E-002 +/- 8.63E-003
U-235	0.997	4385.50*	1.11E-001 +/- 9.24E-002	7.93E-002 +/- 9.30E-003
U-238	0.983	4184.40*	0.00E+000 +/- 4.25E-002	9.20E-002 +/- 1.08E-002

AG
6/16/15

0000121201.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	1	0	0	0	0	0
9:	0	0	0	0	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	1	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	1	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	1
129:	0	0	0	0	0	0	0	0
137:	0	0	1	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	1	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	2
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	1	1	0	0	0	0	1
329:	0	1	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	1	0	0	1	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	2	0
393:	0	0	0	1	0	0	0	0
401:	0	0	0	0	1	0	0	0
409:	1	0	0	0	0	0	0	0
417:	0	1	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	1	0	1	0	0
441:	1	0	0	0	0	0	1	0
449:	0	0	0	0	0	0	0	0
457:	0	1	0	0	0	0	1	0
465:	0	0	0	0	0	0	0	1
473:	0	1	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	1	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	1	0	0	0	1	1	1	0
521:	0	1	0	0	1	0	2	0
529:	0	0	1	0	0	1	0	2
537:	0	0	2	0	0	1	1	0
545:	0	0	0	0	1	2	0	0
553:	1	0	3	2	1	5	1	1
561:	5	2	2	1	3	3	4	1
569:	2	3	3	4	5	3	2	7
577:	10	11	8	4	7	5	11	9
585:	7	10	10	8	10	11	14	5
593:	14	11	12	6	10	10	14	13
601:	8	10	7	11	7	1	3	4
609:	3	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	1	0	0	0	0	0	0
657:	0	0	0	0	0	0	1	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	1	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	1	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	1	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	1	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	1
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	1

KB 6/16/15

Apex-Alpha™

Sample Description: FEEBRISID-09-088-089-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001212
Batch Identification: 1506043A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 121307
Reagent Blank: <not performed>

Sample Size: 2.614E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/11/2015 5:52:24 AM
Acquisition Date/Time: 6/16/2015 8:32:33 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1977 +/- 0.0112
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 1.0949 +/- 0.0648

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.290	376.98	10.11	1.02	0.00E+000	31.5
U-234		4.733	62.66	24.84	0.34	0.00E+000	3.7
U-235		4.373	1.83	152.56	0.17	0.00E+000	3.0
U-238		4.168	55.49	26.45	0.51	0.00E+000	9.3

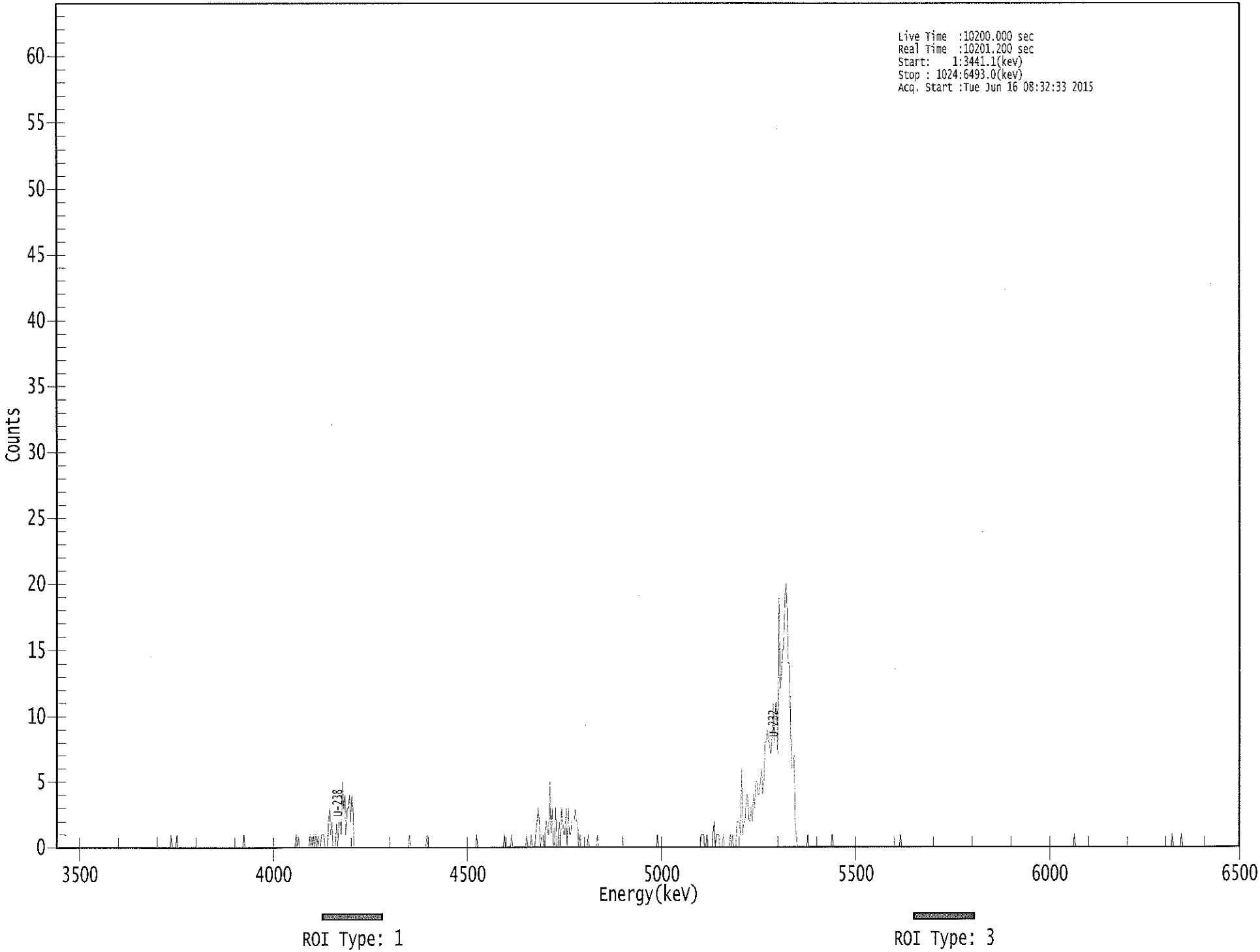
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.999	5302.50*	1.94E+001 +/- 2.14E+000	3.24E-001 +/- 3.58E-002
U-234	0.994	4761.50*	3.22E+000 +/- 8.75E-001	2.46E-001 +/- 2.72E-002
U-235	0.999	4385.50*	1.16E-001 +/- 1.77E-001	2.64E-001 +/- 2.93E-002
U-238	0.998	4184.40*	2.84E+000 +/- 8.14E-001	2.68E-001 +/- 2.97E-002

AG
6/16/15

0000121202.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	1	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	1	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	1
209:	0	1	0	0	0	0	0	0
217:	0	0	0	1	0	0	1	0
225:	1	0	1	0	0	1	1	1
233:	0	0	0	2	3	1	2	0
241:	0	0	2	0	2	2	1	5
249:	3	4	1	3	3	4	2	4
257:	3	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	1	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	1	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	1	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	1	0	0	0	0
393:	0	1	0	0	0	0	0	0
401:	0	0	0	0	0	0	1	0
409:	0	0	1	0	0	0	1	2
417:	3	2	0	1	1	0	1	2
425:	1	1	5	1	3	0	0	3
433:	0	0	2	0	3	2	1	1
441:	3	0	3	1	1	2	2	2
449:	3	2	2	0	1	0	0	0
457:	0	0	0	1	0	0	0	0
465:	0	0	0	1	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	1
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	1	1	1
561:	0	0	1	0	0	0	0	1
569:	2	0	1	1	1	0	0	0
577:	1	0	0	0	0	0	1	0
585:	1	0	0	0	2	2	2	1
593:	6	1	2	2	4	4	2	2
601:	3	2	4	3	5	5	4	4
609:	5	6	4	5	8	8	9	8
617:	8	7	8	11	8	11	11	7
625:	19	12	13	15	15	19	20	18
633:	14	14	9	6	6	7	2	1
641:	0	0	0	0	0	0	0	0
649:	0	1	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	1	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	1	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	1
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	1	0	0	0
969:	0	0	0	0	1	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KP 6/16/15

Sample Description: FEEBRISID-09-088-089
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001211
Batch Identification: 1506043A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 121308
Reagent Blank: <not performed>

Sample Size: 2.614E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/11/2015 5:52:24 AM
Acquisition Date/Time: 6/16/2015 8:32:35 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.602 mL
Effective Efficiency: 0.1754 +/- 0.0104
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 1.0264 +/- 0.0637

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.254	333.32	10.75	0.68	0.00E+000	17.0
U-234		4.712	58.83	25.60	0.17	0.00E+000	8.0
U-235		4.399	8.66	68.12	0.34	0.00E+000	3.0
U-238		4.137	56.00	26.42	0.00	0.00E+000	4.4

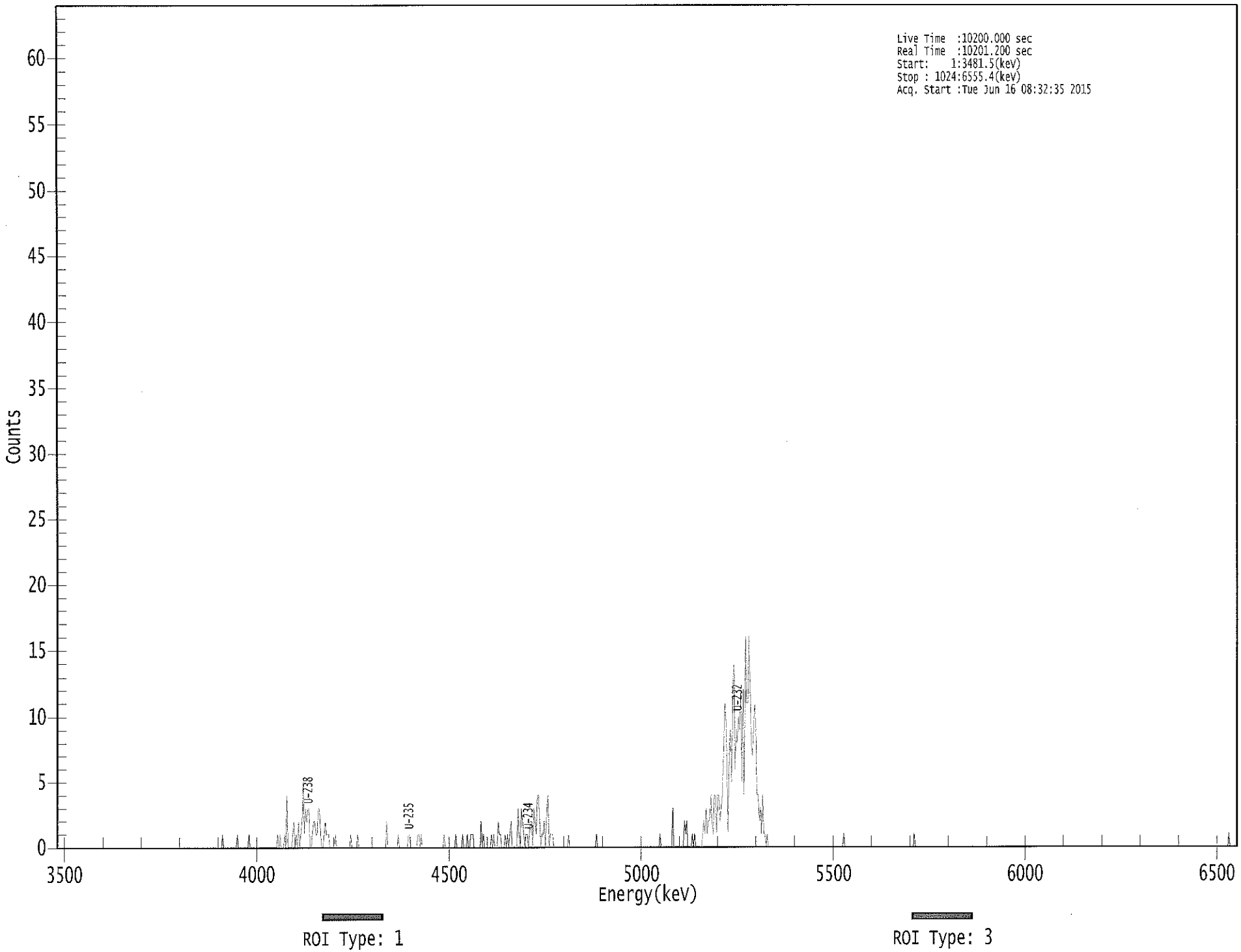
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.983	5302.50*	1.93E+001 +/- 2.25E+000	3.27E-001 +/- 3.81E-002
U-234	0.982	4761.50*	3.41E+000 +/- 9.58E-001	2.42E-001 +/- 2.82E-002
U-235	0.999	4385.50*	6.19E-001 +/- 4.28E-001	3.42E-001 +/- 3.98E-002
U-238	0.984	4184.40*	3.23E+000 +/- 9.33E-001	3.46E-001 +/- 4.03E-002

AG
6/16/15

0000121199.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	1
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	1	0	0	0
161:	0	0	0	0	0	0	1	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	1
193:	0	1	0	0	0	1	0	4
201:	0	0	0	0	1	2	0	1
209:	0	2	0	1	2	5	1	3
217:	2	3	3	0	0	1	2	2
225:	1	1	3	3	1	0	0	1
233:	2	1	1	1	0	0	0	0
241:	0	1	0	0	0	0	0	0
249:	0	0	0	0	0	0	1	0
257:	0	0	0	0	1	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	2	0	0
289:	0	0	0	0	0	0	0	1
297:	0	0	0	0	0	0	0	0
305:	1	1	0	0	0	0	0	0
313:	1	1	0	1	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	1
337:	0	0	0	0	0	0	0	0
345:	0	1	0	0	0	0	0	1
353:	0	0	0	1	0	0	1	1
361:	1	0	0	0	0	0	0	2

369:	0	1	0	0	0	0	0	0

Sample Title: 04

Channel								
377:	1	0	1	0	0	0	2	1
385:	1	0	0	0	1	0	1	0
393:	1	2	0	0	0	0	0	3
401:	1	0	3	2	1	0	1	1
409:	0	1	2	2	0	3	2	1
417:	4	4	2	0	1	1	2	0
425:	3	4	0	1	1	1	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	1	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	1	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	1	0	0	0	0	0
529:	0	0	0	0	0	3	0	0
537:	0	0	0	0	0	0	0	2
545:	1	2	0	0	0	0	1	0
553:	1	0	0	0	0	0	0	1
561:	2	1	3	1	2	2	4	2
569:	1	4	4	1	4	4	2	3
577:	4	7	11	10	6	1	8	9
585:	5	12	14	6	9	8	10	9
593:	12	5	12	4	16	11	11	16
601:	12	8	7	9	11	9	4	4
609:	2	3	1	4	1	1	0	1
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	1	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	1	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	1
1017:	0	0	0	0	0	0	0	0

6/16/2015 5:33:55 AM

Apex-Alpha™

QA SUMMARY REPORT
Review Of QA Results - Pulser Check

Date : 6/16/2015
Time : 5:33:55 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	6/16/2015 5:14:48 AM
Alpha_004	21f	ALL	Passed	6/16/2015 5:14:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	6/16/2015 5:14:50 AM
Alpha_011	21f	ALL	Passed	6/16/2015 5:14:51 AM
Alpha_012	21f	ALL	Passed	6/16/2015 5:14:52 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	6/16/2015 5:14:53 AM
Alpha_015	21f	Peak Energy	Action	6/16/2015 5:14:54 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:55 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:58 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:00 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:01 AM
Alpha_038	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:03 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:05 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:07 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:09 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:11 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:13 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:16 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:18 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:21 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:23 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:26 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:29 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:31 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:34 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:37 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:40 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	6/16/2015 5:15:42 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:45 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:48 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:51 AM

Review of QA Results - Pulser Check

6/16/2015 5:33:55 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:54 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:57 AM

APPROVED BY: _____

APPROVAL DATE: 6/16/15

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

15-06043
ThISO
Run 1

Work Order	15-06043
Analysis Code	ThISO
Run	1
Date Received	6/12/2015
Lab Deadline	6/17/2015
Client	Auxier & Associates, Inc.
Project	FEE BRI
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/12/15 00:00	1.0000E+00
02	MBL	BLANK		06/12/15 00:00	1.0000E+00
03	DUP	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01
04	DO	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
ThISO
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4682	10.5		0.00								
02	MBL	0.2345	5.3		0.00								
03	DUP	0.2341	5.3		0.00								
04	DO	0.2335	5.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
ThISO
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			06/15/15 06:34	JWOLFE				
02	MBL			06/15/15 06:34	JWOLFE				
03	DUP			06/15/15 06:34	JWOLFE				
04	DO	06/15/15 08:52	KSALLINGS	06/15/15 06:34	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.08E+00	9.06E-01	1.13E-01	4.94E+00	102.83	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	8.17E-02	6.79E-02	8.22E-02					OK	OK
03	TH-228	DUP	FEEBRISID-09-088-089	pCi/g	3.56E-01	2.71E-01	2.50E-01				NA	INV	
04	TH-228	DO	FEEBRISID-09-088-089	pCi/g	1.10E-01	2.46E-01	4.65E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	06/12/15 00:00	1.00E+00	85.10	0.00	0.00			
02	TH-228	MBL	06/12/15 00:00	1.00E+00	118.57	0.00	0.00			
03	TH-228	DUP	06/11/15 08:55	2.61E-01	116.63	0.00	0.00			
04	TH-228	DO	06/11/15 08:55	2.61E-01	118.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	06/16/15 08:33		A_Spec	Alpha_042	170	2.83 E+02	6.00 E-03	17.4
02	TH-228	MBL	06/16/15 08:33		A_Spec	Alpha_043	170	7.30 E+00	1.00 E-02	20
03	TH-228	DUP	06/16/15 08:33		A_Spec	Alpha_044	170	7.49 E+00	3.00 E-03	18.4
04	TH-228	DO	06/16/15 08:33		A_Spec	Alpha_046	170	2.26 E+00	2.20 E-02	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.01E+00	1.04E+00	9.42E-02	5.34E+00	112.40	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	6.89E-02	5.96E-02	6.71E-02					OK	OK
03	TH-230	DUP	FEEBRISID-09-088-089	pCi/g	9.00E+02	1.39E+02	1.98E-01				OK	OK	
04	TH-230	DO	FEEBRISID-09-088-089	pCi/g	9.06E+02	1.42E+02	2.89E-01					INV	

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	06/12/15 00:00	1.00E+00	85.10	0.00	0.00			
02	TH-230	MBL	06/12/15 00:00	1.00E+00	118.57	0.00	0.00			
03	TH-230	DUP	06/11/15 08:55	2.61E-01	116.63	0.00	0.00			
04	TH-230	DO	06/11/15 08:55	2.61E-01	118.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	06/16/15 08:33		A_Spec	Alpha_042	170	3.34 E+02	3.00 E-03	17.4
02	TH-230	MBL	06/16/15 08:33		A_Spec	Alpha_043	170	6.15 E+00	5.00 E-03	20
03	TH-230	DUP	06/16/15 08:33		A_Spec	Alpha_044	170	1.90 E+04	1.00 E-03	18.4
04	TH-230	DO	06/16/15 08:33		A_Spec	Alpha_046	170	1.87 E+04	5.00 E-03	17.8

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	5.09E+00	9.09E-01	1.07E-01	4.94E+00	103.18	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	2.97E-02	3.86E-02	5.35E-02					OK	OK
03	TH-232	DUP	FEEBRISID-09-088-089	pCi/g	2.75E+00	8.30E-01	2.83E-01				INV	INV	
04	TH-232	DO	FEEBRISID-09-088-089	pCi/g	3.76E+00	1.03E+00	3.76E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	06/12/15 00:00	1.00E+00	85.10	0.00	0.00			
02	TH-232	MBL	06/12/15 00:00	1.00E+00	118.57	0.00	0.00			
03	TH-232	DUP	06/11/15 08:55	2.61E-01	116.63	0.00	0.00			
04	TH-232	DO	06/11/15 08:55	2.61E-01	118.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	06/16/15 08:33		A_Spec	Alpha_042	170	2.84 E+02	5.00 E-03	17.4
02	TH-232	MBL	06/16/15 08:33		A_Spec	Alpha_043	170	2.66 E+00	2.00 E-03	20
03	TH-232	DUP	06/16/15 08:33		A_Spec	Alpha_044	170	5.82 E+01	5.00 E-03	18.4
04	TH-232	DO	06/16/15 08:33		A_Spec	Alpha_046	170	7.80 E+01	1.20 E-02	17.8

Count Room Report
Client: Auxier Associates, Inc.

15-06043-ThISO-1 (pCi/g) in SO
Tracer ID: Th-18a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/12/15 00:00	1.0000	0.4682	10.5158		0.00		
02	MBL	BLANK	06/12/15 00:00	1.0000	0.2345	5.2669		0.00		
03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	0.2341	5.2579		0.00		
04	DO	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	0.2335	5.2444		0.00		

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06043	1	ThISO	6/15/2015 6:31	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Th-228	Th-8b	103.560	6/15/2015	0.100	0.1058				4.94	0.178	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	6/15/2015	0.500	0.5043				5.34	0.144	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	6/15/2015	0.100	0.1058				4.94	0.178	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Th-229	Th-18a	22.460	6/15/2015	0.4682	0.2200
02	Th-229	Th-18a	22.460	6/15/2015	0.2345	0.2200
03	Th-229	Th-18a	22.460	6/15/2015	0.2341	0.2200
04	Th-229	Th-18a	22.460	6/15/2015	0.2335	0.2200

Balance Printer Tapes

Tracer

0.4682 g
0.2345 g
0.2341 g
0.2335 g

LCS

0.5043 g
0.1058 g

Matrix Spike

ThISO

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 6/15/2015 8:07 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06043	1	ThISO	grams	6/17/2015	JWOLFE

Lab Fraction	Auxier & Associates, Inc. Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRISID-09-088-089	DUP		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				
04	FEEBRISID-09-088-089	DO		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				

Comments	

Technician: JWolfe Date: 6/15/15

SO152

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-06043
	Fraction	**> 03 <**
	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

CSTSD

EBERLINE SERVICES	Internal Work Order	15-06043
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

15-06043

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation
Log Book

Printed: 6/15/2015 8:52 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06043	6/17/2015	6/14/2015	6/15/2015	6/16/2015	KSALLINGS

Eberline	Auxier & Associates, Inc.	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRISID-09-088-089	31.9600	1331.0000	1186.0000	1299.0400	1154.0400	11.16%	88.84%	0.0000	0.0000	

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

Technician: Kenny Sales

Date: Analysis: Rough Prep Logbook

Analysis: ThISO Page No. 9308

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-06043	grams	6/17/2015	KSALLINGS

Eberline Fraction	Auxier & Associates, Inc. Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRISID-09-088-089	113.0200	126.0900		13.0700		

Comments

Technician: Kenny Sallings Date: 6/12/15

Analysis: ThISO

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001212
Batch Identification: 1506043A-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 121313
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/16/2015 5:58:27 AM
Acquisition Date/Time: 6/16/2015 8:33:38 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.468 mL
Effective Efficiency: 0.1478 +/- 0.0102
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 0.8510 +/- 0.0606

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 1.031833 +/- 0.098901
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.931	3.15	126.67	0.85	0.00E+000	3.0
TH-228		5.353	282.98	11.68	1.02	0.00E+000	4.4
TH-229	T	4.850	264.32	12.07	0.68	0.00E+000	5.4
TH-230		4.608	334.49	10.73	0.51	0.00E+000	10.5
TH-232		3.925	284.15	11.65	0.85	0.00E+000	6.0

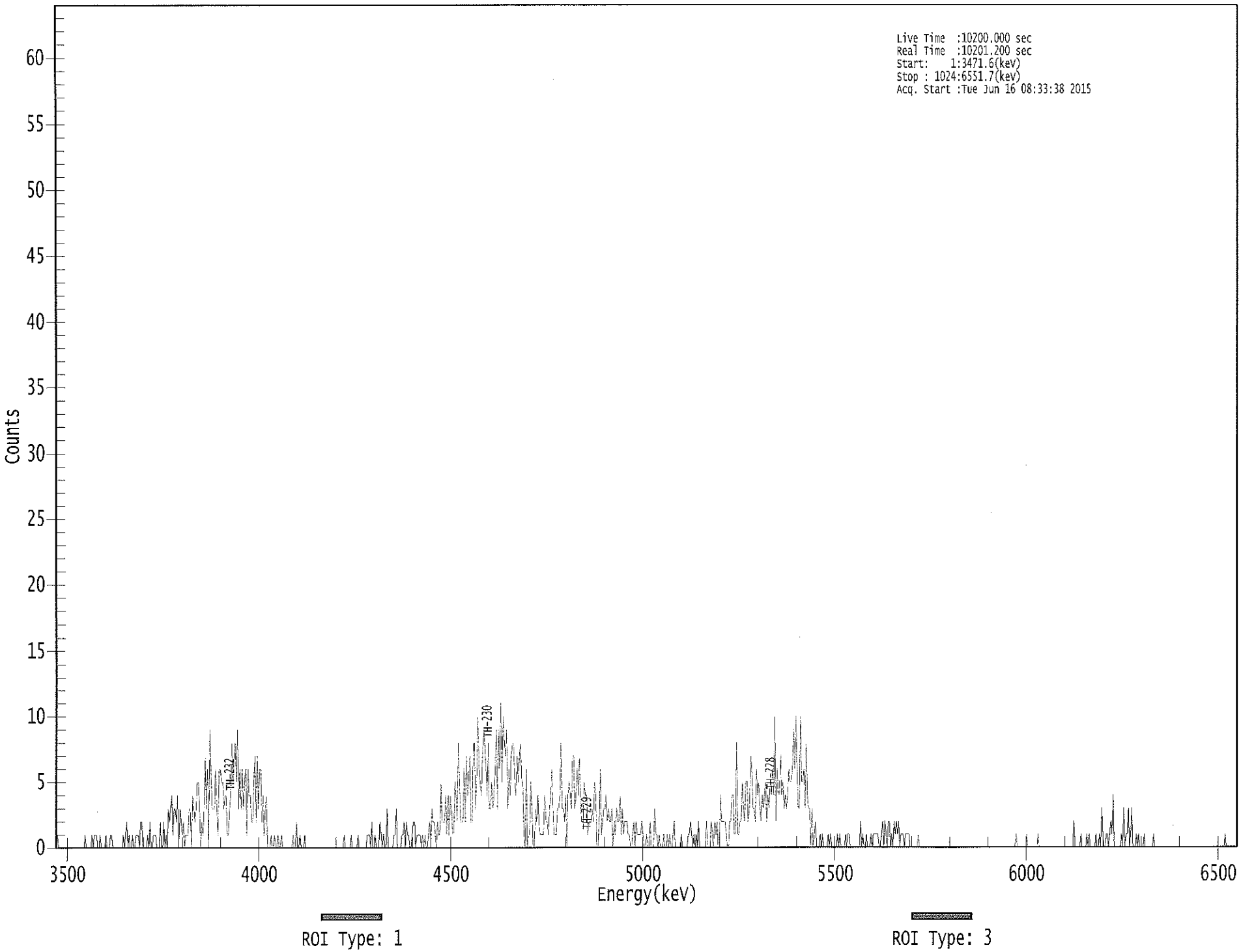
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.967	5850.00*	5.79E-002 +/- 7.38E-002	1.10E-001 +/- 1.49E-002
TH-228	0.989	5400.00*	5.08E+000 +/- 9.06E-001	1.13E-001 +/- 1.53E-002
TH-229	0.998	4872.00*	4.76E+000 +/- 6.43E-001	1.02E-001 +/- 1.37E-002
TH-230	0.979	4672.00*	6.01E+000 +/- 1.04E+000	9.42E-002 +/- 1.27E-002
TH-232	0.973	3997.00*	5.09E+000 +/- 9.09E-001	1.07E-001 +/- 1.45E-002

AG
6/16/15

0000121206.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	1	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	1	0	0	0	0	0	1
33:	0	1	1	1	0	0	1	0
41:	0	0	0	1	0	0	0	1
49:	1	0	0	0	0	0	0	0
57:	0	0	1	0	1	2	0	1
65:	0	0	1	0	0	1	1	1
73:	0	2	2	0	0	0	0	1
81:	0	2	0	0	1	1	1	0
89:	0	0	2	0	0	2	0	1
97:	0	3	2	3	4	1	3	3
105:	2	4	0	3	2	1	2	0
113:	1	1	1	3	3	0	4	3
121:	2	3	5	5	3	0	2	1
129:	3	7	3	6	0	9	6	3
137:	3	3	6	3	1	6	6	5
145:	5	3	4	4	1	1	3	4
153:	8	5	7	8	5	9	3	6
161:	3	6	3	5	6	1	6	4
169:	4	2	2	5	7	2	7	3
177:	6	6	2	4	1	3	4	0
185:	0	0	1	0	0	1	0	0
193:	1	0	0	1	0	0	0	0
201:	0	0	0	0	0	1	0	0
209:	2	0	0	1	0	0	0	1
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	1	0	0	0	0	0	1
257:	0	0	0	0	0	1	0	0
265:	0	0	0	0	0	1	1	1
273:	0	2	0	0	1	0	0	0
281:	2	1	0	1	0	0	3	0
289:	0	0	0	0	1	1	3	0
297:	0	0	0	1	1	2	0	2
305:	1	1	0	0	1	2	2	0
313:	1	1	1	1	0	1	0	1
321:	0	0	1	2	0	3	2	2
329:	1	0	2	1	1	5	2	2
337:	2	4	1	4	1	4	3	1
345:	1	5	4	2	8	5	2	2
353:	2	6	2	7	4	5	7	2
361:	2	8	8	3	5	10	6	5

369:	4	7	9	8	6	4	8	3

Sample Title: 01

Channel								
377:	3	5	3	4	6	9	3	9
385:	6	11	5	10	8	7	9	3
393:	6	4	7	8	8	5	4	7
401:	5	7	8	5	5	1	0	6
409:	0	1	1	5	3	0	0	3
417:	2	4	2	1	1	1	1	4
425:	2	2	1	3	4	6	3	1
433:	1	1	3	3	4	8	3	3
441:	2	4	0	4	5	4	3	7
449:	7	3	4	6	4	7	3	2
457:	2	5	4	4	1	2	2	2
465:	3	2	5	4	0	0	2	6
473:	1	2	3	3	4	2	3	2
481:	2	3	0	2	1	3	2	2
489:	4	1	3	1	2	2	2	1
497:	1	0	0	1	2	0	2	1
505:	1	1	1	2	1	0	0	1
513:	0	0	2	0	0	0	3	1
521:	1	0	1	0	0	0	1	0
529:	0	1	0	1	0	0	1	2
537:	0	0	0	0	0	1	0	0
545:	0	0	0	1	1	2	1	0
553:	1	0	1	0	2	0	0	0
561:	0	0	0	2	0	0	0	2
569:	1	0	2	1	2	0	0	4
577:	2	2	2	2	1	0	0	2
585:	2	4	4	1	1	8	1	1
593:	2	2	5	3	2	5	5	2
601:	3	7	6	3	3	2	6	4
609:	5	3	2	4	3	4	5	2
617:	4	3	5	4	6	4	10	2
625:	6	4	4	7	4	5	3	4
633:	3	4	6	5	5	6	9	6
641:	10	6	3	3	10	5	5	6
649:	3	8	4	3	3	0	3	0
657:	1	2	0	0	0	1	0	1
665:	0	0	0	0	1	0	1	0
673:	0	0	0	0	1	0	1	0
681:	0	0	0	1	0	1	1	0
689:	0	0	0	0	0	0	0	0
697:	2	0	1	0	0	1	0	0
705:	0	1	0	1	1	1	1	1
713:	0	0	1	2	0	2	1	0
721:	2	2	0	1	0	2	1	2
729:	1	2	0	1	1	1	0	1
737:	1	1	1	0	0	0	0	0
745:	0	0	1	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	1
833:	0	0	0	0	0	0	0	0
841:	1	0	0	0	0	0	0	0
849:	0	0	1	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	2	0	0	0	0	0	1
889:	0	0	0	0	1	0	1	0
897:	0	0	0	0	1	0	0	1
905:	0	3	1	0	0	1	1	0
913:	1	2	1	4	0	0	0	0
921:	0	0	1	0	3	0	1	1
929:	3	0	1	3	0	0	0	1
937:	0	1	0	0	0	0	1	0
945:	0	0	0	0	0	0	1	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	1	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KD 6/16/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001212
Batch Identification: 1506043A-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 121314
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/16/2015 5:58:27 AM
Acquisition Date/Time: 6/16/2015 8:33:32 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.235 mL
Effective Efficiency: 0.2369 +/- 0.0179
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 1.1857 +/- 0.0918

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.880	4.32	102.62	0.68	0.00E+000	3.0
TH-228		5.301	7.30	81.83	1.70	0.00E+000	3.0
TH-229	T	4.888	212.15	13.49	0.85	0.00E+000	6.4
TH-230		4.623	6.15	85.19	0.85	0.00E+000	3.0
TH-232		3.948	2.66	128.85	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.995	5850.00*	4.96E-002 +/- 5.14E-002	6.47E-002 +/- 9.57E-003
TH-228	0.950	5400.00*	8.17E-002 +/- 6.79E-002	8.22E-002 +/- 1.22E-002
TH-229	0.999	4872.00*	2.38E+000 +/- 3.53E-001	6.73E-002 +/- 9.95E-003
TH-230	0.988	4672.00*	6.89E-002 +/- 5.96E-002	6.71E-002 +/- 9.92E-003
TH-232	0.988	3997.00*	2.97E-002 +/- 3.86E-002	5.35E-002 +/- 7.91E-003

AG
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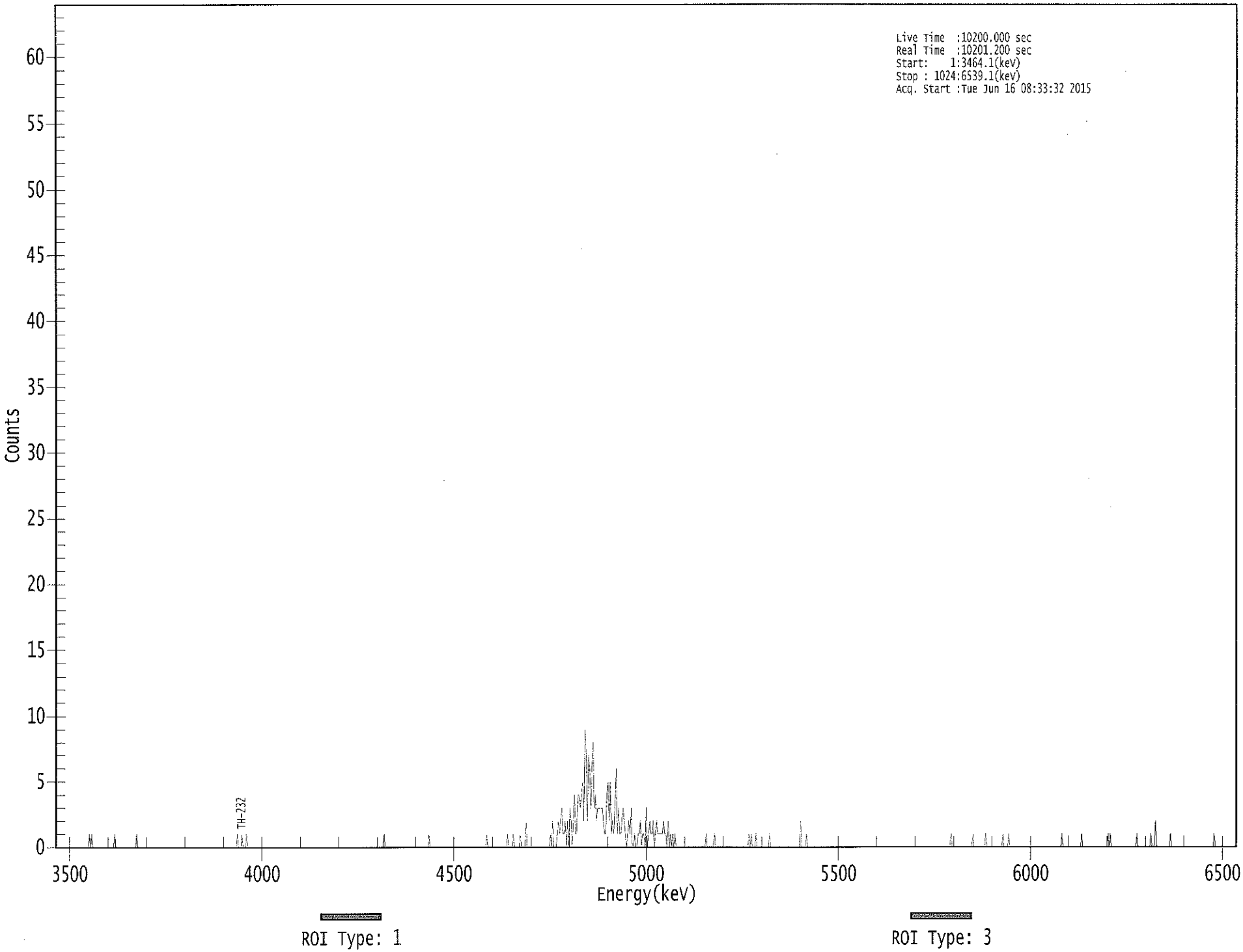
0000121208.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	1	0	1
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	1	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	1	0	0
161:	0	1	0	0	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	1	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	1	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	1
393:	0	0	0	0	1	0	0	0
401:	0	0	1	0	0	0	0	2
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	1	0	2	0
433:	0	0	1	2	1	2	3	1
441:	1	2	0	2	0	3	2	0
449:	2	4	1	1	4	4	3	4
457:	5	2	9	7	2	7	6	3
465:	6	8	3	4	2	3	3	3
473:	3	3	2	1	1	4	5	2
481:	5	1	2	1	3	6	1	3
489:	1	1	2	3	2	1	0	1
497:	2	1	3	0	0	1	0	0
505:	1	1	2	0	1	1	0	3
513:	0	1	2	1	1	2	0	1
521:	2	1	1	1	1	1	2	1
529:	1	0	2	0	1	0	1	0
537:	1	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	1	0	0	0	0
569:	0	0	1	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	1	0	1	0	0	0	1	0
609:	0	0	0	0	0	0	0	0
617:	0	0	1	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	2	0	0
649:	0	0	1	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	1
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	1	0	0	0	0	0

801:	0	0	0	0	0	1	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	1	0	0	0
825:	0	1	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	1
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	1	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	1
913:	0	1	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	1	0	0	0	0	0	0	0
945:	0	0	0	0	1	0	0	0
953:	2	0	0	0	0	0	0	0
961:	0	0	0	0	0	1	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	1	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 6/16/15

Apex-Alpha™

Sample Description: FEEBRISID-09-088-089-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001212
Batch Identification: 1506043A-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 121315
Reagent Blank: <not performed>

Sample Size: 2.614E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/11/2015 5:58:27 AM
Acquisition Date/Time: 6/16/2015 8:33:34 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.2142 +/- 0.0169
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.1663 +/- 0.0941

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.891	126.83	17.42	0.17	0.00E+000	3.4
TH-228		5.411	7.49	74.41	0.51	0.00E+000	4.5
TH-229	T	4.888	191.49	14.19	0.51	0.00E+000	4.7
TH-230		4.658	18978.83	1.42	0.17	0.00E+000	42.1
TH-232		3.937	58.15	25.92	0.85	0.00E+000	3.7

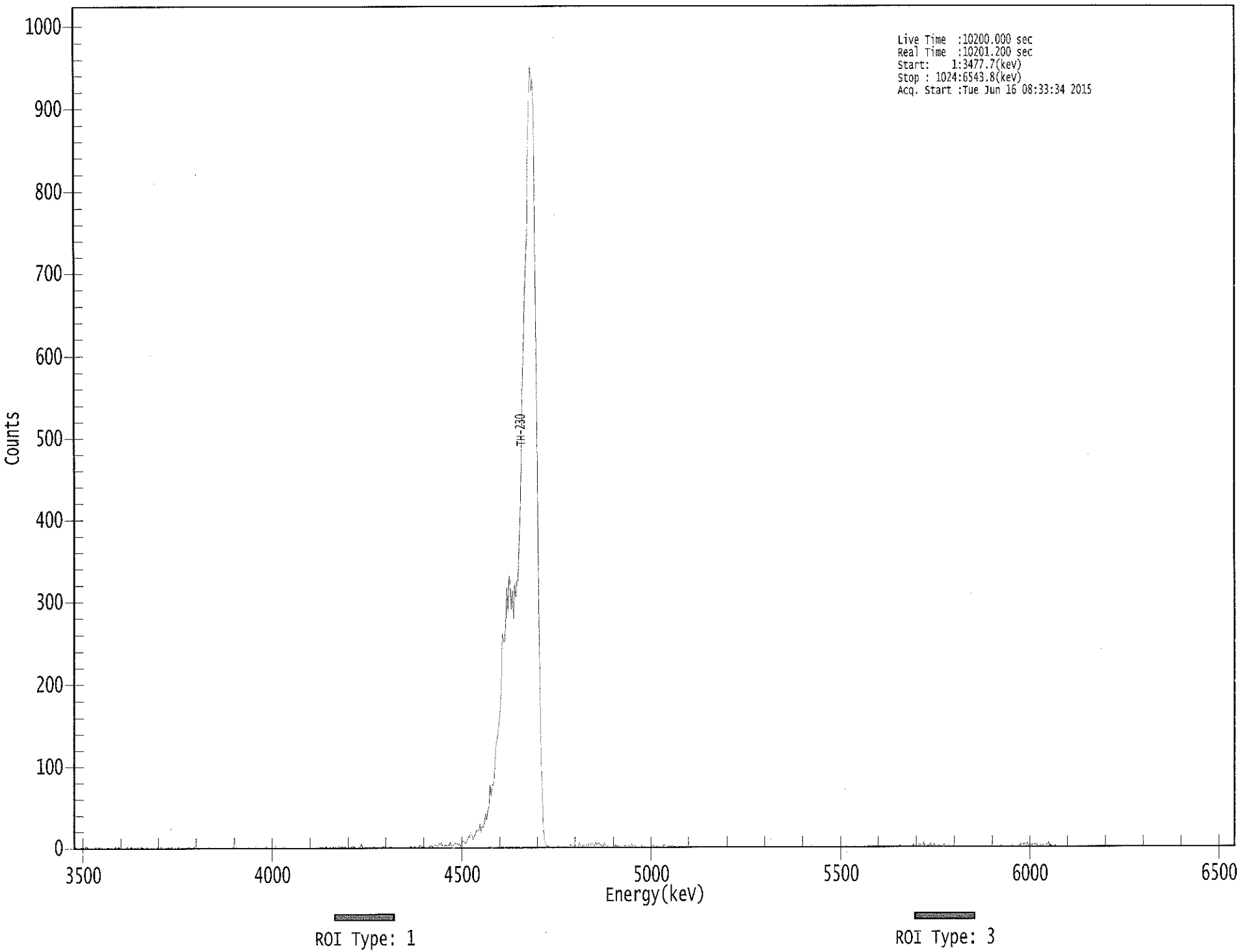
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.991	5850.00*	6.16E+000 +/- 1.43E+000	2.03E-001 +/- 3.13E-002
TH-228	0.999	5400.00*	3.56E-001 +/- 2.71E-001	2.50E-001 +/- 3.85E-002
TH-229	0.999	4872.00*	9.10E+000 +/- 1.41E+000	2.50E-001 +/- 3.85E-002
TH-230	0.999	4672.00*	9.00E+002 +/- 1.39E+002	1.98E-001 +/- 3.05E-002
TH-232	0.981	3997.00*	2.75E+000 +/- 8.30E-001	2.83E-001 +/- 4.37E-002

AG 6/16/15

0000121209.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	1	2	0	0	0	0	1	1
9:	1	0	2	2	1	0	0	0
17:	0	0	0	2	0	0	2	0
25:	1	0	0	0	0	1	1	1
33:	0	1	0	0	2	1	0	2
41:	1	0	0	0	0	0	1	2
49:	0	0	2	1	0	1	1	0
57:	2	0	0	2	1	1	0	1
65:	2	1	0	0	1	0	1	0
73:	0	0	2	0	1	2	0	0
81:	0	1	0	2	0	1	2	0
89:	0	1	0	0	2	1	0	1
97:	1	0	1	1	0	2	0	0
105:	0	0	2	0	1	1	0	0
113:	1	0	1	0	0	1	2	1
121:	2	1	1	1	1	0	0	2
129:	1	1	0	0	0	0	0	0
137:	1	1	1	0	2	1	0	2
145:	1	0	0	0	0	0	1	1
153:	0	0	2	0	1	0	0	0
161:	2	0	0	0	1	0	0	0
169:	2	1	2	0	1	0	0	1
177:	0	3	1	0	1	0	1	1
185:	1	2	1	0	1	0	0	0
193:	0	1	0	1	0	1	0	0
201:	0	1	0	0	0	0	1	0
209:	0	0	0	0	0	0	1	0
217:	1	1	1	1	0	1	2	0
225:	0	1	1	0	2	0	1	1
233:	0	3	1	1	2	1	1	2
241:	0	0	1	0	2	2	1	2
249:	0	0	1	0	2	5	2	0
257:	0	0	1	1	1	1	1	0
265:	2	0	0	1	0	0	1	0
273:	2	0	3	0	0	0	1	2
281:	0	1	1	1	0	0	0	0
289:	1	0	0	0	1	0	1	0
297:	2	1	1	0	2	0	0	0
305:	3	3	1	1	2	0	1	0
313:	0	2	3	2	1	3	4	2
321:	1	6	4	6	3	0	2	4
329:	3	3	3	8	3	4	3	6
337:	5	5	4	5	2	7	8	8
345:	6	5	10	14	13	19	16	10
353:	14	17	22	21	21	29	20	27
361:	24	31	42	35	45	52	77	64

369:	78	77	93	124	132	139	155	166

Sample Title: 03

Channel								
377:	201	261	252	251	274	316	287	331
385:	324	291	313	279	322	305	325	325
393:	371	406	484	557	620	672	721	748
401:	856	924	952	921	936	896	733	611
409:	467	313	198	114	70	26	9	5
417:	1	2	1	0	0	0	0	0
425:	0	0	2	0	0	0	1	2
433:	0	2	0	0	1	4	1	3
441:	0	3	2	1	1	6	4	1
449:	3	3	1	4	1	5	5	3
457:	7	2	2	6	4	5	6	4
465:	2	3	1	7	2	1	2	1
473:	1	0	1	1	2	3	2	2
481:	0	2	0	1	3	2	2	0
489:	2	2	1	4	1	2	2	1
497:	0	1	0	0	3	0	2	0
505:	0	0	1	0	1	1	3	1
513:	0	1	2	1	1	0	0	2
521:	4	2	0	1	1	2	1	2
529:	1	1	1	0	0	0	0	0
537:	0	0	0	0	1	0	1	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	1	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	1	0
649:	0	2	1	0	0	0	1	2
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	1	0	0	0	0	0	0	1
689:	0	0	0	0	0	0	0	0
697:	0	0	0	1	0	0	0	0
705:	1	1	0	0	0	1	0	0
713:	0	0	0	1	0	0	1	0
721:	0	0	0	0	0	0	1	2
729:	0	1	0	0	1	1	0	0
737:	1	0	1	3	0	1	1	0
745:	3	4	0	0	5	1	0	1
753:	2	1	4	1	2	4	1	1
761:	1	2	1	0	1	2	3	1
769:	0	0	2	1	1	0	2	0
777:	0	0	0	1	0	0	1	1
785:	0	0	0	0	0	0	0	1
793:	1	0	0	0	0	1	0	0

801:	1	0	0	0	0	0	1	0

Sample Title: 03

Channel								
809:	1	0	0	0	0	0	0	0
817:	2	0	1	1	1	0	1	0
825:	0	0	2	0	0	0	0	1
833:	2	1	4	2	3	4	0	5
841:	1	2	3	2	3	2	4	3
849:	2	0	0	3	1	3	0	0
857:	3	2	5	1	2	0	1	0
865:	2	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 6/16/15

Sample Description: FEEBRISID-09-088-089
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001212
Batch Identification: 1506043A-TH
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 121317
Reagent Blank: <not performed>

Sample Size: 2.614E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/11/2015 5:58:27 AM
Acquisition Date/Time: 6/16/2015 8:33:36 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.2101 +/- 0.0167
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 1.1828 +/- 0.0966

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.901	146.32	16.25	0.68	0.00E+000	4.4
TH-228		5.302	2.26	223.41	3.74	0.00E+000	3.0
TH-229	T	4.885	187.30	14.40	1.70	0.00E+000	7.5
TH-230		4.645	18733.15	1.43	0.85	0.00E+000	40.5
TH-232		3.960	77.96	22.54	2.04	0.00E+000	3.5

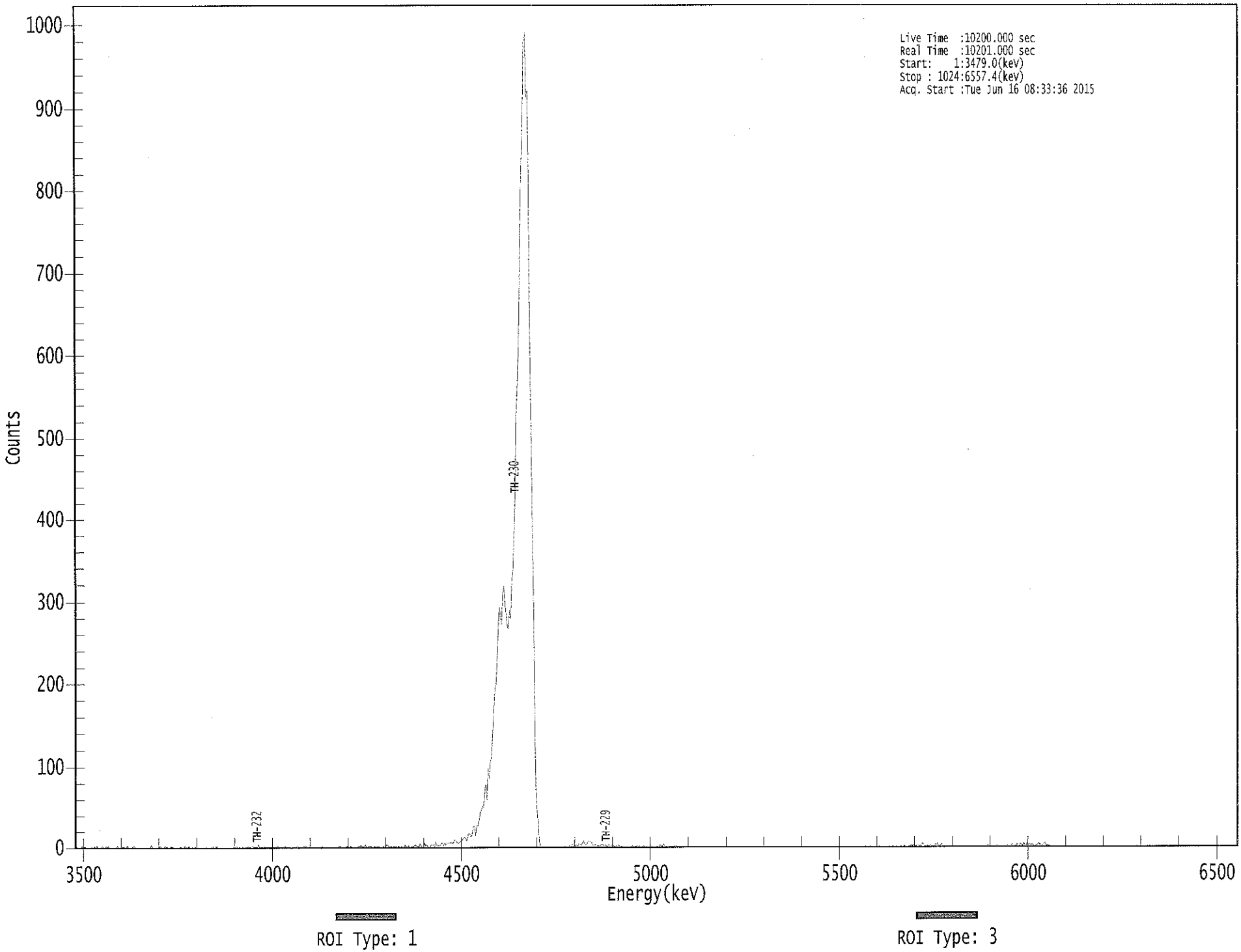
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.987	5850.00*	7.24E+000 +/- 1.63E+000	2.79E-001 +/- 4.36E-002
TH-228	0.951	5400.00*	1.10E-001 +/- 2.46E-001	4.65E-001 +/- 7.27E-002
TH-229	0.999	4872.00*	9.08E+000 +/- 1.42E+000	3.56E-001 +/- 5.57E-002
TH-230	0.996	4672.00*	9.06E+002 +/- 1.42E+002	2.89E-001 +/- 4.52E-002
TH-232	0.993	3997.00*	3.76E+000 +/- 1.03E+000	3.76E-001 +/- 5.87E-002

AG 6/16/15

0000121207.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	1	1	0	0	0	2	1
9:	1	1	0	0	1	0	1	1
17:	0	2	0	3	1	0	0	1
25:	2	0	1	2	1	2	0	1
33:	0	0	0	1	0	3	0	1
41:	0	1	1	1	0	1	3	0
49:	0	0	1	2	2	0	0	0
57:	0	0	0	0	1	0	1	0
65:	0	0	1	4	0	0	1	0
73:	1	0	1	2	1	0	1	2
81:	1	1	0	0	2	1	1	0
89:	0	0	0	0	1	1	0	0
97:	2	2	0	1	2	0	0	1
105:	0	1	1	1	1	0	1	0
113:	1	0	1	1	1	0	0	0
121:	1	2	0	2	1	2	0	0
129:	0	1	0	0	0	1	0	1
137:	0	0	0	1	0	1	2	0
145:	1	1	0	1	0	0	1	0
153:	2	1	1	2	2	1	1	1
161:	1	4	0	0	0	1	2	0
169:	0	1	1	1	1	1	1	0
177:	0	0	3	1	1	1	1	0
185:	3	1	1	1	1	1	0	1
193:	0	0	1	2	1	0	0	0
201:	0	3	1	3	1	0	0	1
209:	0	1	1	1	1	1	0	0
217:	1	2	0	0	1	1	1	1
225:	0	0	0	1	0	0	1	1
233:	2	2	0	1	0	0	1	2
241:	2	0	2	1	0	0	0	1
249:	0	2	2	3	2	1	2	4
257:	1	1	2	2	2	0	0	2
265:	1	1	2	1	1	0	0	2
273:	0	3	4	3	1	1	2	0
281:	2	1	2	0	2	1	0	2
289:	0	0	4	1	0	3	0	1
297:	1	1	3	4	2	2	1	5
305:	3	0	1	6	3	4	2	0
313:	1	4	3	4	1	8	3	3
321:	2	3	6	6	3	6	3	6
329:	6	5	7	6	5	8	10	9
337:	6	5	7	8	9	11	13	13
345:	9	14	18	17	14	17	27	27
353:	16	28	27	33	44	46	52	50
361:	70	79	60	98	86	107	112	141

369:	167	195	199	234	270	293	281	273

Sample Title: 04

Channel								
377:	310	318	295	285	268	267	290	279
385:	323	338	378	426	528	559	602	672
393:	787	834	908	980	991	914	921	815
401:	643	513	391	291	163	69	46	29
409:	8	2	1	0	1	0	0	0
417:	1	0	0	1	0	0	0	1
425:	0	0	0	0	1	1	0	2
433:	0	0	2	1	1	4	0	0
441:	3	2	1	5	4	3	5	8
449:	4	3	5	8	8	6	6	3
457:	0	4	3	2	2	2	3	4
465:	3	2	3	1	1	4	2	2
473:	3	2	1	1	2	2	3	0
481:	1	1	0	1	0	0	0	1
489:	0	1	2	0	1	1	2	0
497:	2	2	0	1	2	0	0	1
505:	0	0	3	1	2	0	0	1
513:	1	0	3	2	0	4	2	0
521:	0	0	1	1	1	1	1	1
529:	2	1	0	0	0	0	0	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	1	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	1	0	0	0	0	1
593:	0	0	0	0	0	0	0	0
601:	0	1	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	1
649:	0	0	0	0	0	0	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	1
697:	0	0	0	1	0	0	0	0
705:	0	1	0	1	0	0	0	0
713:	0	0	0	0	1	0	0	1
721:	0	0	1	0	0	0	1	0
729:	0	2	0	0	0	1	0	3
737:	1	2	2	1	2	2	0	2
745:	1	5	2	1	1	2	1	1
753:	2	2	1	0	3	3	5	1
761:	1	2	4	1	1	0	1	1
769:	0	0	0	1	0	0	0	0
777:	0	0	0	1	0	0	0	0
785:	0	0	0	0	0	0	0	1
793:	0	1	0	0	0	0	0	0

801:	1	0	2	2	1	0	0	0

Sample Title: 04

Channel								
809:	1	0	2	1	0	1	0	1
817:	0	0	1	0	2	0	0	2
825:	3	0	2	0	4	1	1	4
833:	2	1	5	2	1	5	2	4
841:	2	3	3	1	0	2	2	5
849:	3	3	1	3	4	5	1	2
857:	1	1	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	1	0
937:	0	0	0	0	0	0	0	0
945:	0	1	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

6/16/2015 5:33:55 AM

Apex-Alpha™

QA SUMMARY REPORT
Review Of QA Results - Pulser Check

Date : 6/16/2015
Time : 5:33:55 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	6/16/2015 5:14:48 AM
Alpha_004	21f	ALL	Passed	6/16/2015 5:14:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	6/16/2015 5:14:50 AM
Alpha_011	21f	ALL	Passed	6/16/2015 5:14:51 AM
Alpha_012	21f	ALL	Passed	6/16/2015 5:14:52 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	6/16/2015 5:14:53 AM
Alpha_015	21f	Peak Energy	Action	6/16/2015 5:14:54 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:55 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:58 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:00 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:01 AM
Alpha_038	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:03 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:05 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:07 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:09 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:11 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:13 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:16 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:18 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:21 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:23 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:26 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:29 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:31 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:34 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:37 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:40 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	6/16/2015 5:15:42 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:45 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:48 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:51 AM

Review of QA Results - Pulser Check

6/16/2015 5:33:55 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:54 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:57 AM

APPROVED BY: _____

APPROVAL DATE: 6/16/15

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (RADIUM-226)

15-06043
Ra226
Run 1

Work Order	15-06043
Analysis Code	Ra226
Run	1
Date Received	6/12/2015
Lab Deadline	6/17/2015
Client	Auxier & Associates, Inc.
Project	FEE BRI
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EPA 903.0 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Ba-133
Radiometric Sol#	Ba-6a
Tracer Act (dpm/g)	875.98
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/12/15 00:00	1.0000E+00
02	MBL	BLANK		06/12/15 00:00	1.0000E+00
03	DUP	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01
04	DO	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
Ra226
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	1.0087	883.6	444.0	111.55		0.0233	0.0290	0.0057		110.00	2.04	1.00
02	MBL	1.0076	882.6	430.0	108.15		0.0235	0.0291	0.0056		108.15	2.00	1.00
03	DUP	1.0065	881.7	384.0	96.69		0.0234	0.0305	0.0071		96.69	2.53	1.00
04	DO	1.0073	882.4	476.0	119.76		0.0234	0.0301	0.0067		110.00	2.42	1.00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
Ra226
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			06/15/15 06:29	JWOLFE	06/16/15 04:11	RMARTZ		
02	MBL			06/15/15 06:29	JWOLFE	06/16/15 04:11	RMARTZ		
03	DUP			06/15/15 06:29	JWOLFE	06/16/15 04:11	RMARTZ		
04	DO	06/15/15 08:52	KSALLINGS	06/15/15 06:29	JWOLFE	06/16/15 04:11	RMARTZ		

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Ra226-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: Ra226
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	RA-226	LCS	LCS	pCi/g	1.06E+01	1.24E+00	1.64E-01	1.02E+01	104.64	OK		OK	
02	RA-226	MBL	BLANK	pCi/g	8.60E-02	1.11E-01	1.54E-01					OK	OK
03	RA-226	DUP	FEEBRISID-09-088-089	pCi/g	3.87E+01	4.98E+00	7.39E-01				OK	INV	
04	RA-226	DO	FEEBRISID-09-088-089	pCi/g	4.02E+01	5.17E+00	1.05E+00					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Ra226-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: Ra226
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	RA-226	LCS	06/12/15 00:00	1.00E+00	100.00	0.00	110.00		6/16/2015 4:11	
02	RA-226	MBL	06/12/15 00:00	1.00E+00	100.00	0.00	108.15		6/16/2015 4:11	
03	RA-226	DUP	06/11/15 08:55	2.61E-01	96.69	0.00	96.69		6/16/2015 4:11	
04	RA-226	DO	06/11/15 08:55	2.61E-01	100.00	0.00	110.00		6/16/2015 4:11	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Ra226-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: Ra226
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	RA-226	LCS	06/16/15 06:30		A_Spec	Alpha_057	170	3.11 E+02	2.00 E-03	15.8
02	RA-226	MBL	06/16/15 06:30		A_Spec	Alpha_058	170	2.66 E+00	2.00 E-03	16.4
03	RA-226	DUP	06/16/15 06:30		A_Spec	Alpha_059	170	2.51 E+02	2.00 E-03	17.2
04	RA-226	DO	06/16/15 06:30		A_Spec	Alpha_060	170	2.53 E+02	7.00 E-03	15.4

Count Room Report
Client: Auxier Associates, Inc.

15-06043-Ra226-1 (pCi/g) in SO
Tracer ID: Ba-6a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/12/15 00:00	1.0000	1.0087	883.6010	444.0000	111.55	2.04	1.00
02	MBL	BLANK	06/12/15 00:00	1.0000	1.0076	882.6374	430.0000	108.15	2.00	1.00
03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	1.0065	881.6739	384.0000	96.69	2.53	1.00
04	DO	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	1.0073	882.3747	476.0000	119.76	2.42	1.00

15169

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06043	1	Ra226	6/15/2015 6:26	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Ra-226	Ra-5b	44.030	6/15/2015	0.500	0.5131				10.18	0.468	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Ba-133	Ba-6a	875.980	6/15/2015	1.0087	1.1600
02	Ba-133	Ba-6a	875.980	6/15/2015	1.0076	1.1600
03	Ba-133	Ba-6a	875.980	6/15/2015	1.0065	1.1600
04	Ba-133	Ba-6a	875.980	6/15/2015	1.0073	1.1600

Balance Printer Tapes

Tracer

1.0087 g
1.0076 g
1.0065 g
1.0073 g

LCS

0.5131 g
0.6156 g

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06043	1	Ra226	grams	6/17/2015	JWOLFE

Lab Fraction	Auxier & Associates, Inc.	Sample	Muffle Data	Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
	Client ID	Type	Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq
01	LCS	LCS				1.00E+00	1.0000E+00	1.0000E+00				
02	BLANK	MBL				1.00E+00	1.0000E+00	1.0000E+00				
03	FEEBRISID-09-088-089	DUP		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				
04	FEEBRISID-09-088-089	DO		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				

Comments	

Technician: JWolfe Date: 6/15/15

00189

EBERLINE SERVICES	Internal Work Order	15-06043
	Fraction	> 03 <
Dilution Worksheet	Analysis Code	Ra226
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

00190

EBERLINE SERVICES	Internal Work Order	15-06043
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	**Ra226**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

00191

Eberline Services - Oak Ridge
Version 1.0 9/1999

Gravimetric Worksheet

Printed: 6/16/2015 5:23 AM

Work Order	Run	Analysis Code	Gravimetric Carrier	Carrier Conc (mg/ml)	Technician
15-06043	1	Ra226			RMARTZ

TRetec	Auxier & Associates, Inc.	Sample	Carrier Data	Filter Data			Gravimetric
Fraction	Client ID	Type	Carrier Added (ml)	Filter Tare (g)	Filter Final (g)	Filter Net (g)	% Recovery
01	LCS	LCS		0.0233	0.0290	0.0057	
02	BLANK	MBL		0.0235	0.0291	0.0056	
03	DUP	DUP		0.0234	0.0305	0.0071	
04	FEEBRISID-09-088-089	DO		0.0234	0.0301	0.0067	

Technician: [signature] Date: 6/16/15

25100

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 6/15/2015 8:52 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06043	6/17/2015	6/14/2015	6/15/2015	6/16/2015	KSALLINGS

Eberline	Auxier & Associates, Inc.	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRISID-09-088-089	31.9600	1331.0000	1186.0000	1299.0400	1154.0400	11.16%	88.84%	0.0000	0.0000	

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

Technician: _____ Date: **Analysis: Rough Prep Logbook**

Analysis: Ra226 Page No. 9308

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 6/12/2015 9:48 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-06043	grams	6/17/2015	KSALLINGS

Eberline Fraction	Auxier & Associates, Inc. Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRISID-09-088-089	113.0200	126.0900		13.0700		

Comments

Technician: Kenny Sallings Date: 6/12/15

Analysis: Ra226

Apex-Alpha™

6/16

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001211
Batch Identification: 1506043A-RA
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Ra

Detector Name: Alpha_057
Chamber Serial Number: 01017326A
Detector Serial Number: 57
Env. Background: System Bkgd 121328
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Generic Mult. Factor: 2.040E+000 Generic Div. Factor: 1.000E+000
Sample Date/Time: 6/16/2015 5:30:52 AM
Acquisition Date/Time: 6/16/2015 6:30:10 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Chem. Recovery Factor: 1.0000 +/- 0.0000
Counting Efficiency: 0.1577 +/- 0.0028 on 12/13/2014 2:27:38 PM
Effective Efficiency: 0.1577 +/- 0.0028

Control Certificate Name: Ra226_Ra-5b
Chem. Recov. of Control: RA-226 0.512893 +/- 0.034173
Peak Match Tolerance: 0.350 MeV

PEAK AREA REPORT

Nuclide	Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
RA-224	5.539	413.49	9.65	0.51	0.00E+000	7.0
RA-226	4.610	310.66	11.13	0.34	0.00E+000	5.6

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
RA-224	0.972	5685.50*	1.49E+001 +/- 1.53E+000	1.89E-001 +/- 6.59E-003
RA-226	0.961	4785.00*	1.06E+001 +/- 1.24E+000	1.64E-001 +/- 5.71E-003

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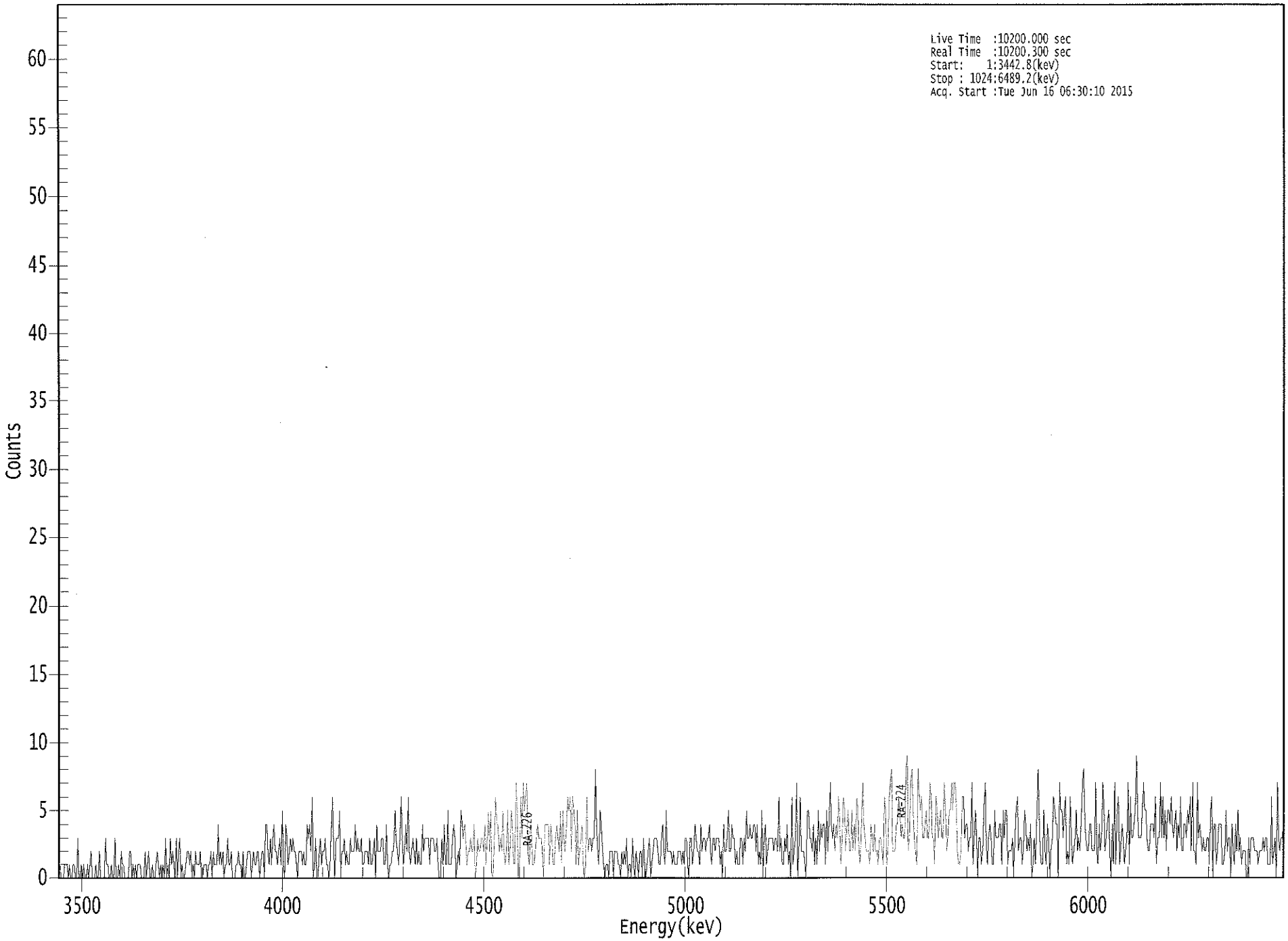
6/16/15

0000121191.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	1	1	0	0	0	1	1	1
9:	0	1	0	0	1	1	0	0
17:	3	0	0	1	0	1	0	0
25:	1	0	1	2	0	0	0	1
33:	0	0	2	0	0	0	0	3
41:	1	1	0	0	1	0	0	3
49:	0	0	1	0	2	1	1	0
57:	0	0	0	2	2	0	1	0
65:	1	0	1	1	1	0	0	0
73:	2	0	1	2	0	0	1	0
81:	0	1	2	1	0	1	0	1
89:	0	3	0	1	0	3	1	2
97:	1	0	3	0	2	3	0	1
105:	0	0	1	2	2	1	2	0
113:	1	0	2	1	1	1	2	0
121:	0	1	1	1	0	1	1	2
129:	0	2	1	1	1	4	1	2
137:	1	2	0	1	1	3	1	1
145:	2	0	0	0	1	1	2	1
153:	1	0	2	0	0	1	2	2
161:	2	0	1	2	1	1	2	2
169:	0	1	2	2	0	4	4	2
177:	1	3	1	3	4	2	2	1
185:	2	3	1	5	1	0	4	3
193:	1	2	3	2	3	2	2	1
201:	0	2	2	2	1	2	1	1
209:	4	3	4	2	6	0	1	3
217:	0	0	2	3	1	2	2	3
225:	1	1	0	1	4	6	2	0
233:	3	3	3	5	0	2	2	3
241:	1	2	1	1	3	2	2	2
249:	4	2	3	2	2	3	1	1
257:	2	2	2	1	3	1	1	2
265:	3	0	4	2	2	2	3	3
273:	1	1	4	1	0	1	1	2
281:	2	5	3	2	1	3	6	3
289:	1	2	4	2	6	2	1	2
297:	3	2	1	3	1	2	1	1
305:	4	2	3	3	3	3	1	3
313:	3	3	2	2	3	1	0	0
321:	3	1	4	1	1	5	1	1
329:	1	3	4	3	0	1	2	1
337:	5	4	3	4	3	1	2	2
345:	3	2	2	4	0	1	3	2
353:	2	3	3	2	4	1	3	5
361:	2	5	0	0	3	6	4	4

369:	2	3	2	5	2	1	2	5

Sample Title: 01

Channel								
377:	1	2	5	4	1	1	7	5
385:	0	0	6	3	7	5	6	7
393:	2	1	4	3	1	1	2	3
401:	4	3	3	3	2	0	4	4
409:	4	4	1	4	3	1	1	3
417:	4	3	2	5	1	5	3	2
425:	4	6	5	6	2	6	5	4
433:	1	5	1	2	3	4	1	0
441:	1	6	2	3	3	2	3	3
449:	8	4	2	1	5	4	2	1
457:	0	1	1	0	2	2	2	0
465:	2	2	2	1	1	0	2	1
473:	2	1	3	0	1	1	0	3
481:	1	0	2	1	0	2	2	0
489:	3	1	0	1	2	3	0	1
497:	2	3	3	3	2	1	1	3
505:	4	2	1	5	2	2	2	2
513:	1	2	1	1	1	2	2	2
521:	1	2	1	3	3	1	0	3
529:	3	1	2	4	3	2	2	1
537:	4	2	3	3	2	3	3	4
545:	2	1	3	3	2	3	3	3
553:	1	2	0	4	2	2	3	5
561:	2	2	4	3	3	1	2	1
569:	1	3	3	1	3	2	5	3
577:	3	4	3	3	4	4	2	4
585:	1	2	1	5	0	3	4	1
593:	2	3	3	3	3	2	3	3
601:	2	6	2	3	1	1	3	2
609:	4	1	2	0	6	1	2	3
617:	7	0	2	6	2	2	2	1
625:	0	5	5	3	3	2	4	1
633:	3	1	5	2	4	3	4	4
641:	1	5	2	4	7	4	3	4
649:	2	4	3	6	4	1	3	6
657:	5	2	4	5	2	2	5	2
665:	4	2	6	5	2	1	4	7
673:	4	3	2	2	2	1	4	3
681:	2	4	2	2	1	3	3	2
689:	1	6	5	1	2	6	7	8
697:	2	2	2	4	4	6	5	3
705:	4	3	3	8	9	2	3	7
713:	8	5	3	2	1	8	6	5
721:	6	3	3	4	5	3	3	7
729:	6	3	3	1	6	5	3	4
737:	5	3	3	7	5	2	3	5
745:	5	7	5	7	7	5	2	1
753:	1	2	6	6	3	4	4	2
761:	3	3	7	1	3	5	3	0
769:	3	3	1	2	5	7	3	1
777:	3	4	3	1	1	5	3	3
785:	3	4	4	1	5	3	5	5
793:	1	2	2	2	3	0	3	5

801:	6	2	3	3	1	2	5	4

Sample Title: 01

Channel								
809:	2	3	2	4	0	1	3	1
817:	4	8	5	2	1	1	5	2
825:	1	4	3	0	2	3	6	5
833:	4	4	0	7	5	5	3	5
841:	6	1	2	1	6	3	1	2
849:	3	5	2	3	2	4	7	8
857:	4	3	2	2	4	4	2	2
865:	2	7	2	1	4	2	3	7
873:	5	2	3	4	5	2	0	4
881:	1	7	1	5	6	1	2	4
889:	3	1	2	3	7	1	6	3
897:	3	4	5	9	5	3	3	3
905:	5	7	5	5	3	2	2	4
913:	4	4	3	6	1	3	3	7
921:	3	6	3	5	2	5	5	4
929:	6	4	3	4	5	2	4	3
937:	6	2	2	4	4	3	5	4
945:	6	2	7	2	2	1	7	3
953:	4	3	2	3	2	2	3	3
961:	1	5	6	0	4	4	1	2
969:	4	4	4	1	1	2	5	2
977:	3	3	0	4	2	1	4	2
985:	5	2	3	1	2	2	2	0
993:	0	3	1	3	3	3	2	2
1001:	2	1	2	2	2	3	2	3
1009:	3	1	1	1	6	1	2	3
1017:	0	7	3	2	3	3	4	2

Apex-Alpha™

6/16

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001211
Batch Identification: 1506043A-RA
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Ra

Detector Name: Alpha_058
Chamber Serial Number: 01017326B
Detector Serial Number: 58
Env. Background: System Bkgd 121329
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Generic Mult. Factor: 2.000E+000 Generic Div. Factor: 1.000E+000
Sample Date/Time: 6/16/2015 5:30:52 AM
Acquisition Date/Time: 6/16/2015 6:30:12 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Chem. Recovery Factor: 1.0000 +/- 0.0000
Counting Efficiency: 0.1640 +/- 0.0029 on 12/13/2014 2:26:06 PM
Effective Efficiency: 0.1640 +/- 0.0029

Peak Match Tolerance: 0.350 MeV

PEAK AREA REPORT

Nuclide	Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
RA-224	5.549	1.83	152.56	0.17	0.00E+000	3.0
RA-226	4.644	2.66	128.85	0.34	0.00E+000	3.0

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
RA-224	0.976	5685.50*	6.22E-002 +/- 9.49E-002	1.42E-001 +/- 4.91E-003
RA-226	0.975	4785.00*	8.60E-002 +/- 1.11E-001	1.54E-001 +/- 5.35E-003

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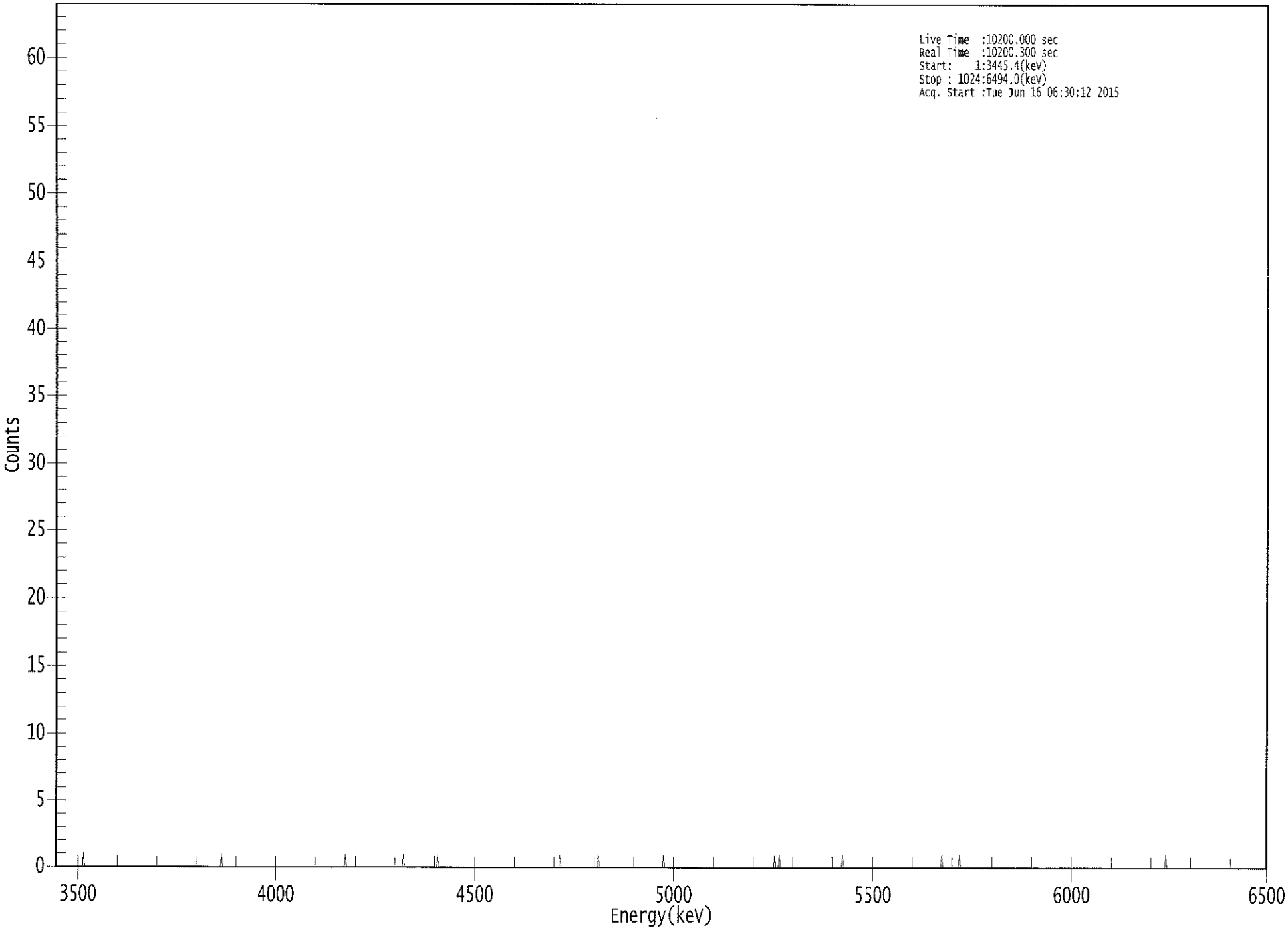
6/16/15

0000121187.CNF



ROI Type: 1

10200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	1
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	1	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	1	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	1	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	1	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	1	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	1	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	1
609:	0	0	0	1	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	1	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	1	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

6/16

Sample Description: FEEBRISID-09-088-089-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001211
Batch Identification: 1506043A-RA
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Ra

Detector Name: Alpha_059
Chamber Serial Number: 10006125A
Detector Serial Number: 59
Env. Background: System Bkgd 121330
Reagent Blank: <not performed>

Sample Size: 2.614E-001 +/- 0.000E+000 gram
Generic Mult. Factor: 2.530E+000 Generic Div. Factor: 1.000E+000
Sample Date/Time: 6/11/2015 5:30:52 AM
Acquisition Date/Time: 6/16/2015 6:30:15 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Chem. Recovery Factor: 0.9669 +/- 0.0000
Counting Efficiency: 0.1717 +/- 0.0030 on 12/13/2014 2:24:23 PM
Effective Efficiency: 0.1660 +/- 0.0029

Peak Match Tolerance: 0.350 MeV

PEAK AREA REPORT

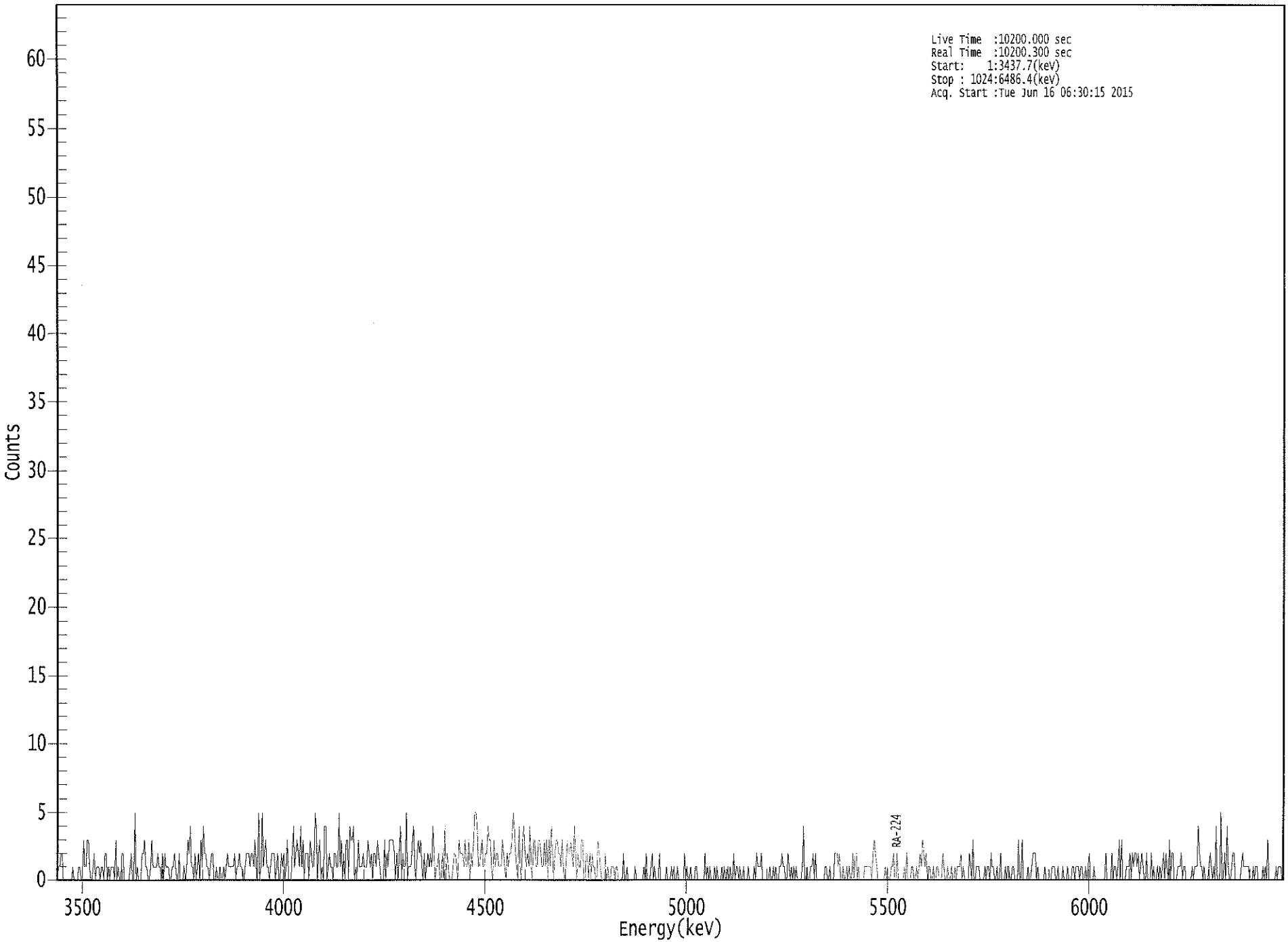
Nuclide	Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
RA-224	5.523	72.98	23.13	1.02	0.00E+000	8.2
RA-226	4.590	250.66	12.39	0.34	0.00E+000	11.2

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
RA-224	0.966	5685.50*	1.19E+001 +/- 2.78E+000	1.03E+000 +/- 3.54E-002
RA-226	0.952	4785.00*	3.87E+001 +/- 4.98E+000	7.39E-001 +/- 2.55E-002

AG
6/16/15

0000121188.CNF



ROI Type: 1

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	1	1	2	2	0	0	0
9:	0	0	0	0	0	1	0	0
17:	0	0	1	1	0	0	3	1
25:	1	3	3	1	0	0	1	2
33:	0	1	1	1	0	1	1	0
41:	2	2	0	1	0	1	1	1
49:	0	3	0	1	0	0	2	2
57:	0	0	0	0	0	1	2	0
65:	0	5	0	1	0	0	0	2
73:	2	3	1	1	0	0	1	3
81:	1	1	1	1	2	1	1	0
89:	2	0	2	1	1	1	0	0
97:	1	1	2	1	0	0	2	0
105:	0	0	1	0	1	3	2	4
113:	1	1	0	2	0	1	2	0
121:	3	1	4	2	2	1	1	0
129:	1	2	2	0	0	1	0	0
137:	1	0	0	1	0	1	2	1
145:	1	1	1	1	2	0	1	1
153:	2	1	1	0	0	1	2	2
161:	2	1	2	2	1	3	1	0
169:	5	0	1	5	1	2	3	1
177:	1	0	1	2	2	2	0	1
185:	2	0	0	2	1	2	0	1
193:	3	0	0	0	2	4	1	2
201:	3	2	1	4	1	3	0	2
209:	2	2	0	3	2	1	1	5
217:	4	0	2	3	0	1	0	4
225:	4	0	1	2	1	1	0	2
233:	2	1	1	5	1	3	0	2
241:	0	3	3	0	4	3	3	4
249:	0	1	0	3	1	1	1	2
257:	1	1	1	3	2	1	2	0
265:	2	2	1	3	2	1	0	0
273:	0	3	0	2	1	3	3	3
281:	3	2	0	2	0	2	4	0
289:	2	1	1	5	0	1	1	1
297:	3	4	1	0	2	3	2	3
305:	1	0	2	0	1	2	1	2
313:	1	4	2	0	1	1	2	0
321:	0	2	0	4	0	2	1	0
329:	0	0	1	2	2	1	0	3
337:	2	2	2	1	3	1	1	3
345:	0	2	1	3	5	5	4	1
353:	1	2	3	1	1	2	2	4
361:	3	3	1	0	3	1	2	2

369:	1	1	1	3	2	1	0	2

Sample Title: 03

Channel								
377:	1	2	2	3	5	4	2	1
385:	0	4	1	0	3	4	2	1
393:	2	1	4	1	0	3	3	1
401:	1	3	3	2	1	1	3	1
409:	3	0	3	1	4	2	0	2
417:	3	3	2	2	1	3	1	0
425:	1	3	2	2	3	2	1	4
433:	2	0	2	1	1	3	3	0
441:	0	2	2	0	2	0	2	1
449:	1	0	0	3	2	1	0	0
457:	0	2	0	1	0	0	1	1
465:	1	0	1	1	0	0	0	0
473:	2	0	0	1	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	1	0	2	0	0	0	1
497:	2	0	1	0	0	0	2	0
505:	0	0	0	0	1	0	0	0
513:	1	0	1	0	0	1	0	0
521:	0	0	0	2	0	1	0	0
529:	1	0	0	0	1	1	0	0
537:	0	0	0	0	2	0	1	0
545:	1	0	0	0	1	0	1	0
553:	0	0	1	0	1	0	0	1
561:	0	1	0	0	2	0	1	1
569:	0	1	0	0	1	0	0	0
577:	1	0	0	0	0	1	0	2
585:	1	1	1	2	0	0	0	0
593:	0	0	1	0	0	1	0	1
601:	0	0	1	1	2	1	1	0
609:	0	2	1	0	1	0	1	0
617:	1	0	0	0	0	1	4	0
625:	0	1	0	0	1	1	2	0
633:	2	0	0	0	0	0	0	0
641:	1	1	0	0	1	0	0	0
649:	2	2	2	1	2	0	0	1
657:	0	0	1	0	1	0	0	2
665:	0	2	2	0	1	0	0	0
673:	0	1	1	1	1	1	1	0
681:	2	3	2	1	0	0	0	0
689:	0	0	1	0	1	0	0	1
697:	1	2	0	0	2	0	0	0
705:	0	0	1	0	2	0	0	0
713:	1	1	0	0	1	0	1	2
721:	1	3	2	1	2	0	1	1
729:	0	0	1	0	0	1	1	0
737:	0	0	2	1	0	0	1	0
745:	0	1	0	0	1	0	1	1
753:	1	2	0	1	0	0	0	0
761:	2	1	0	3	0	0	1	1
769:	1	0	0	0	0	1	0	1
777:	1	0	2	1	1	0	0	1
785:	0	0	2	0	0	0	1	0
793:	1	1	0	0	1	1	0	0

801:	0	3	0	0	3	0	0	0

Sample Title: 03

Channel								
809:	0	1	0	0	1	2	2	2
817:	0	1	0	0	0	0	0	1
825:	0	0	0	0	0	1	1	1
833:	0	0	1	0	0	0	1	0
841:	0	0	1	0	0	0	1	1
849:	0	1	1	1	0	1	1	0
857:	0	1	0	1	2	0	0	0
865:	1	0	0	0	0	0	0	0
873:	0	0	2	0	0	0	0	2
881:	0	1	1	0	1	3	0	3
889:	0	0	0	1	1	1	2	0
897:	2	1	2	2	1	2	0	1
905:	2	1	0	0	2	0	0	0
913:	2	0	1	0	0	1	0	1
921:	0	1	2	0	2	1	0	3
929:	0	2	2	0	0	0	1	1
937:	1	2	0	1	1	0	0	0
945:	0	0	1	0	1	1	1	4
953:	2	1	1	0	1	0	0	0
961:	1	2	1	0	1	0	4	0
969:	0	0	5	0	0	2	0	4
977:	1	0	0	1	2	2	0	0
985:	0	0	0	1	2	1	1	1
993:	1	1	0	0	0	1	0	1
1001:	1	0	0	0	0	1	0	1
1009:	0	3	0	0	0	0	0	0
1017:	1	0	1	1	1	0	0	0

Apex-Alpha™

C
6/16

Sample Description: FEEBRISID-09-088-089
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001211
Batch Identification: 1506043A-RA
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Ra

Detector Name: Alpha_060
Chamber Serial Number: 10006125B
Detector Serial Number: 60
Env. Background: System Bkgd 121331
Reagent Blank: <not performed>

Sample Size: 2.614E-001 +/- 0.000E+000 gram
Generic Mult. Factor: 2.420E+000 Generic Div. Factor: 1.000E+000
Sample Date/Time: 6/11/2015 5:30:52 AM
Acquisition Date/Time: 6/16/2015 6:30:14 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Chem. Recovery Factor: 1.0000 +/- 0.0000
Counting Efficiency: 0.1543 +/- 0.0028 on 12/13/2014 2:22:05 PM
Effective Efficiency: 0.1543 +/- 0.0028

Peak Match Tolerance: 0.350 MeV

----- PEAK AREA REPORT -----

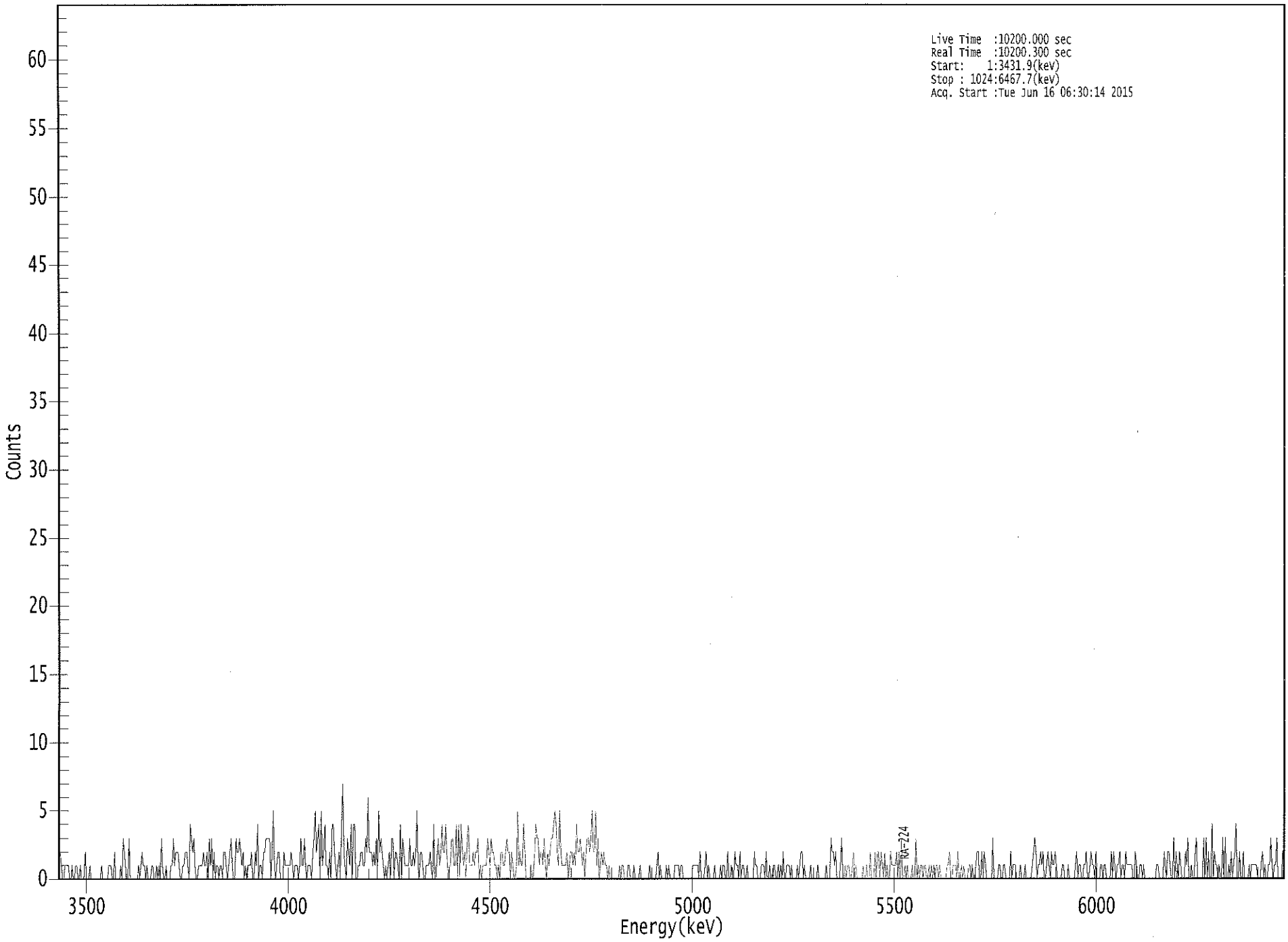
Nuclide	Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
RA-224	5.528	64.81	24.61	1.19	0.00E+000	3.0
RA-226	4.589	252.81	12.36	1.19	0.00E+000	3.7

----- NUCLIDE ANALYSIS RESULTS -----

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
RA-224	0.968	5685.50*	1.09E+001 +/- 2.70E+000	1.10E+000 +/- 3.87E-002
RA-226	0.951	4785.00*	4.02E+001 +/- 5.17E+000	1.05E+000 +/- 3.68E-002

AG
6/16/15

0000121189.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	1	2	1	0	0	1	1	1
9:	1	0	0	1	0	0	1	1
17:	0	0	1	0	0	0	2	0
25:	0	0	1	0	0	0	0	0
33:	0	0	0	0	1	0	0	0
41:	0	0	1	1	1	0	0	2
49:	0	0	0	0	1	0	3	2
57:	1	0	0	3	0	0	0	0
65:	0	0	0	1	0	1	2	1
73:	1	0	1	0	0	0	1	1
81:	0	0	1	0	1	0	3	1
89:	0	0	1	0	0	0	1	1
97:	3	1	2	2	2	1	0	0
105:	1	1	2	2	1	0	4	3
113:	2	3	1	0	0	1	1	1
121:	1	2	1	1	2	0	3	1
129:	3	0	2	0	1	1	0	1
137:	1	0	2	2	1	0	1	2
145:	3	1	0	0	3	2	2	3
153:	2	1	2	0	1	0	1	1
161:	1	2	0	0	2	1	4	0
169:	1	1	0	2	2	3	3	3
177:	3	0	2	5	1	0	1	2
185:	2	0	0	0	2	1	1	1
193:	1	1	2	1	0	1	1	1
201:	0	1	3	1	1	3	1	0
209:	1	1	1	0	2	3	5	2
217:	3	4	0	5	1	2	4	1
225:	1	0	2	0	4	4	2	1
233:	0	1	2	0	4	7	2	1
241:	0	3	2	1	4	0	4	4
249:	0	0	1	1	2	2	1	1
257:	3	2	6	2	2	2	1	2
265:	1	3	0	5	2	3	2	1
273:	0	1	0	1	2	0	3	3
281:	0	2	2	1	0	4	0	3
289:	2	1	1	1	1	3	1	1
297:	2	1	2	5	1	0	2	2
305:	1	0	0	1	1	1	2	1
313:	0	4	0	0	2	3	1	2
321:	4	2	2	4	2	0	1	1
329:	3	3	1	1	4	0	4	0
337:	4	2	1	2	0	3	4	1
345:	1	1	2	1	2	2	3	0
353:	1	0	1	1	1	1	3	2
361:	1	3	2	2	1	1	0	1

369:	0	2	2	1	1	2	3	2

Sample Title: 04

Channel								
377:	2	0	2	1	0	0	1	5
385:	1	2	1	1	4	2	0	0
393:	0	0	1	0	0	2	4	3
401:	3	1	2	2	1	3	1	0
409:	2	1	2	3	3	4	5	4
417:	2	1	5	2	1	1	1	1
425:	2	0	1	2	2	1	2	1
433:	4	2	2	3	2	1	2	0
441:	2	3	3	2	3	5	2	2
449:	5	1	3	0	1	2	1	2
457:	1	1	0	1	0	0	0	0
465:	0	0	0	0	1	0	1	1
473:	0	0	0	1	1	0	0	0
481:	1	0	0	0	0	1	0	0
489:	0	0	0	0	0	1	0	0
497:	0	0	0	1	2	0	1	0
505:	0	0	0	1	0	1	0	0
513:	0	0	1	1	1	1	0	1
521:	1	0	0	0	0	0	0	0
529:	0	1	1	1	1	1	0	2
537:	0	0	0	1	2	0	1	0
545:	0	0	0	1	0	0	0	0
553:	1	0	1	1	0	0	2	0
561:	0	1	0	0	2	1	1	0
569:	2	0	1	1	0	0	1	0
577:	0	0	0	0	2	1	1	0
585:	0	0	1	1	1	0	2	0
593:	0	1	0	0	1	1	0	0
601:	1	0	1	0	2	0	0	1
609:	1	1	0	1	0	0	0	0
617:	1	0	1	2	2	0	1	0
625:	0	0	0	1	0	0	0	0
633:	0	1	0	0	0	0	0	0
641:	1	0	0	0	3	2	2	1
649:	2	0	0	0	1	3	0	0
657:	1	0	1	1	0	0	1	2
665:	0	1	0	0	0	0	0	1
673:	0	0	1	0	0	2	0	0
681:	0	2	0	2	2	0	2	1
689:	0	2	0	1	0	0	2	1
697:	1	1	1	2	0	2	0	3
705:	0	0	1	0	1	0	0	0
713:	1	0	0	3	0	1	0	1
721:	1	0	1	1	0	0	1	0
729:	1	0	1	0	1	1	0	1
737:	0	0	0	0	0	1	1	2
745:	0	0	1	1	1	0	2	0
753:	0	1	0	1	0	0	0	1
761:	1	0	1	0	0	1	2	2
769:	0	0	2	0	2	1	0	0
777:	0	0	0	3	0	0	0	0
785:	1	1	0	0	1	1	0	0
793:	0	0	2	0	1	1	1	0

801:	0	0	1	0	0	0	1	0

Sample Title: 04

Channel								
809:	0	0	0	0	1	2	3	2
817:	0	1	1	2	1	2	0	0
825:	1	2	1	0	2	1	1	2
833:	1	0	0	0	0	1	1	0
841:	0	0	1	0	0	0	0	0
849:	1	2	0	1	1	0	0	1
857:	1	2	0	0	1	2	1	1
865:	0	2	0	0	0	1	1	0
873:	1	1	0	0	0	0	2	0
881:	2	1	0	1	1	2	0	1
889:	1	0	2	1	1	1	1	1
897:	0	0	2	1	0	0	1	1
905:	0	1	0	0	0	0	0	0
913:	0	0	0	0	1	1	0	0
921:	0	0	2	1	0	2	2	1
929:	0	0	3	0	2	1	0	2
937:	1	0	0	0	2	1	3	0
945:	0	1	0	0	2	3	0	0
953:	0	0	0	3	0	3	0	2
961:	0	0	4	0	2	1	1	0
969:	1	0	0	3	0	3	0	0
977:	1	0	2	0	1	2	4	0
985:	0	2	0	0	2	0	0	0
993:	0	1	0	1	1	1	1	1
1001:	0	0	0	1	2	0	1	0
1009:	0	1	1	3	1	0	1	1
1017:	3	0	0	0	0	2	1	0

6/16/2015 5:33:55 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 6/16/2015
Time : 5:33:55 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	6/16/2015 5:14:48 AM
Alpha_004	21f	ALL	Passed	6/16/2015 5:14:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	6/16/2015 5:14:50 AM
Alpha_011	21f	ALL	Passed	6/16/2015 5:14:51 AM
Alpha_012	21f	ALL	Passed	6/16/2015 5:14:52 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	6/16/2015 5:14:53 AM
Alpha_015	21f	Peak Energy	Action	6/16/2015 5:14:54 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:55 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:14:58 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:00 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:01 AM
Alpha_038	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:03 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:05 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:07 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:09 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:11 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:13 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:16 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:18 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:21 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:23 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:26 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:29 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:31 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:34 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:37 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:40 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	6/16/2015 5:15:42 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:45 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:48 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:51 AM

Review of QA Results - Pulser Check

6/16/2015 5:33:55 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:54 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	6/16/2015 5:15:57 AM

APPROVED BY: _____

APPROVAL DATE: 6/16/15

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Radium

Nuclide Library Description: Ra-226, Po-218, Rn-222

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
PO-218	5.049E+010	6003.000*	0.000	99.9800	0.0000
RN-222	5.049E+010	5490.000*	0.000	99.9200	0.0000
RA-226	5.049E+010	4785.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 3 Nuclides 3 Energy Lines

SECTION XI

ANALYTICAL DATA (RADIUM-228)

15-06043
Ra228
Run 1

Work Order	15-06043
Analysis Code	Ra228
Run	1
Date Received	6/12/2015
Lab Deadline	6/17/2015
Client	AMO Environmental Decisions
Project	Phase 1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EPA 904.0
Instrument Type	Alpha/Beta GPC
Radiometric Tracer	Ba-133
Radiometric Sol#	Ba-6a
Tracer Act (dpm/g)	875.98
Carrier	Yttirum
Carrier Conc (mg/ml)	40.8593

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/12/15 00:00	1.0000E+00
02	MBL	BLANK		06/12/15 00:00	1.0000E+00
03	DUP	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01
04	DO	FEEBRISID-09-088-089	100	06/11/15 08:55	2.6140E-01

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043

15-06043
Ra228
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	1.0087	883.6	444.0	111.55	2.000	0.0932	0.1504	0.0572	70.00	77.00	1.00	1.00
02	MBL	1.0076	882.6	430.0	108.15	2.000	0.0981	0.1588	0.0607	74.28	80.34	1.00	1.00
03	DUP	1.0065	881.7	384.0	96.69	2.000	0.0925	0.1535	0.0610	74.65	72.17	1.00	1.00
04	DO	1.0073	882.4	476.0	119.76	2.000	0.0955	0.1527	0.0572	70.00	77.00	1.00	1.00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
Ra228
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			06/15/15 06:31	JWOLFE	06/16/15 04:11	RMARTZ	06/18/15 08:38	RMARTZ
02	MBL			06/15/15 06:31	JWOLFE	06/16/15 04:11	RMARTZ	06/18/15 08:38	RMARTZ
03	DUP			06/15/15 06:31	JWOLFE	06/16/15 04:11	RMARTZ	06/18/15 08:38	RMARTZ
04	DO	06/15/15 08:52	KSALLINGS	06/15/15 06:31	JWOLFE	06/16/15 04:11	RMARTZ	06/18/15 08:38	RMARTZ

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Ra228-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06043	Ra228	1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	RA-228	LCS	LCS	pCi/g	6.80E+00	8.33E-01	1.18E+00	8.34E+00	81.47	OK		INV	
02	RA-228	MBL	BLANK	pCi/g	7.46E-01	5.79E-01	1.16E+00					INV	OK
03	RA-228	DUP	FEEBRISID-09-088-089	pCi/g	2.29E+00	2.13E+00	4.30E+00				NA	INV	
04	RA-228	DO	FEEBRISID-09-088-089	pCi/g	3.58E+00	2.17E+00	4.24E+00					INV	

Work Order: 15-06043-Ra228-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06043	Ra228	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	RA-228	LCS	06/12/15 00:00	1.00E+00	111.55	70.00	77.00	3330.04	6/16/2015 4:11	6/18/2015 8:38
02	RA-228	MBL	06/12/15 00:00	1.00E+00	108.15	74.28	80.34	3746.19	6/16/2015 4:11	6/18/2015 8:38
03	RA-228	DUP	06/11/15 08:55	2.61E-01	96.69	74.65	72.17	3783.00	6/16/2015 4:11	6/18/2015 8:38
04	RA-228	DO	06/11/15 08:55	2.61E-01	119.76	70.00	77.00	3330.04	6/16/2015 4:11	6/18/2015 8:38

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Ra228-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-06043

Analysis Code: Ra228

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	RA-228	LCS	06/18/15 10:48		LB4110R	C1	120	637	1.5	0.4705
02	RA-228	MBL	06/18/15 10:48		LB4110R	C2	120	238	1.55	0.4676
03	RA-228	DUP	06/18/15 10:48		LB4110R	C3	120	173	1.133333333	0.4614
04	RA-228	DO	06/18/15 10:48		LB4110R	C4	120	221	1.316666667	0.4714

1209

Count Room Report
Client: AMO Environmental Decisio

15-06043-Ra228-1 (pCi/g) in SO
Tracer ID: Ba-6a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/12/15 00:00	1.0000	1.0087	883.6010	444.0000	111.55	1.00	1.00
02	MBL	BLANK	06/12/15 00:00	1.0000	1.0076	882.6374	430.0000	108.15	1.00	1.00
03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	1.0065	881.6739	384.0000	96.69	1.00	1.00
04	DO	FEEBRISID-09-088-089	06/11/15 08:55	0.2614	1.0073	882.3747	476.0000	119.76	1.00	1.00

G2298

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06043	1	Ra228	6/15/2015 6:30	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Ra-228	Ra-11	30.090	6/15/2015	0.660	0.6156				8.34	0.426	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Ba-133	Ba-6a	875.980	6/15/2015	1.0087	1.1600
02	Ba-133	Ba-6a	875.980	6/15/2015	1.0076	1.1600
03	Ba-133	Ba-6a	875.980	6/15/2015	1.0065	1.1600
04	Ba-133	Ba-6a	875.980	6/15/2015	1.0073	1.1600

Balance Printer Tapes

Tracer

LCS

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 6/15/2015 8:08 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06043	1	Ra228	grams	6/17/2015	JWOLFE

Lab Fraction	Auxier & Associates, Inc. Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS				1.00E+00	1.0000E+00	1.0000E+00				
02	BLANK	MBL				1.00E+00	1.0000E+00	1.0000E+00				
03	FEEBRISID-09-088-089	DUP		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				
04	FEEBRISID-09-088-089	DO		1	7.65	1.31E-01	2.0000E+00	2.6140E-01				

Comments	

12269

Technician: JWolfe Date: 6/15/15

EBERLINE SERVICES	Internal Work Order	15-06043
	Fraction	> 03 <
Dilution Worksheet	Analysis Code	**Ra228**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

00228

EBERLINE SERVICES	Internal Work Order	15-06043
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	**Ra228**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**13.07**	ml	from the original sample and diluted it to	**100**	ml	0.1307
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1307**
Dilution Factor	**7.651109411**

Diluted by: JW Date: 6/15/15

00229

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation
Log Book

Printed: 6/15/2015 8:52 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06043	6/17/2015	6/14/2015	6/15/2015	6/16/2015	KSALLINGS

Eberline	Auxier & Associates, Inc.	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRISID-09-088-089	31.9600	1331.0000	1186.0000	1299.0400	1154.0400	11.16%	88.84%	0.0000	0.0000	

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

Technician: Kerry Scott Date: Analysis: Rough Prep Logbook Analysis: Ra228 Page No. 9308

00230

Eberline Services - Oak Ridge
Version 1.0 9/1999

Gravimetric Worksheet

Printed: 6/18/2015 10:26 AM

Work Order	Run	Analysis Code	Gravimetric Carrier	Carrier Conc (mg/ml)	Technician
15-06043	1	Ra228	Yttirum	40.8593	RMARTZ

TRetec Fraction	AMO Environmental Decisions Client ID	Sample Type	Carrier Data: Carrier Added (ml)	Filter Data: Filter Tare (g)	Filter Data: Filter Final (g)	Filter Data: Filter Net (g)	Gravimetric: % Recovery
01	LCS	LCS	2.0000	0.0932	0.1504	0.0572	70.00
02	BLANK	MBL	2.0000	0.0981	0.1588	0.0607	74.28
03	DUP	DUP	2.0000	0.0925	0.1535	0.0610	74.65
04	FEEBRISID-09-088-089	DO	2.0000	0.0955	0.1527	0.0572	70.00

Technician: [signature] Date: 6/18/15

00231

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 6/12/2015 9:48 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-06043	grams	6/17/2015	KSALLINGS

Eberline	Auxier & Associates, Inc.	Tare	Muffle Data		Muffle Calculations		
Fraction	Client ID	Crucible Wt	Pre Wt/Vol	Post Wt/Vol	Pre Net Wt/Vol	Post-Net Wt/Vol	Ratio Post/Pre
04	FEEBRISID-09-088-089	113.0200	126.0900		13.0700		

Comments

Technician: Kenyscy Date: 6/12/15

Analysis: Ra228

00232

R
6.18.16

Detector ID	Sample ID	Alpha	Beta	Count Time	Voltage	TOD
C1	1506043-01	12	637	120	1400	6/18/15 12:48
C2	1506043-02	7	238	120	1400	6/18/15 12:48
C3	1506043-03	13	173	120	1400	6/18/15 12:48
C4	1506043-04	11	221	120	1400	6/18/15 12:48

9 7/8/15

GPC Detector Report
(ALL Backgrounds)

6/18

Detector	Alpha/Beta	Calibration Date	Count Date	Bkg CPM	PFW	LCL	Mean	UCL
LB4110A - A1	Alpha	11/18/2007	6/18/2015	1.00E-01	P	-1.87E+01	2.29E-01	1.91E+01
LB4110A - A2	Alpha	11/18/2007	6/18/2015	5.00E-02	P	-1.59E+01	2.07E-01	1.63E+01
LB4110A - A3	Alpha	11/18/2007	6/18/2015	8.33E-02	P	-1.54E+01	1.82E-01	1.58E+01
LB4110A - A4	Alpha	11/18/2007	6/18/2015	0.00E+00	P	-1.64E+01	1.91E-01	1.68E+01
LB4110A - B1	Alpha	11/18/2007	6/18/2015	6.67E-02	P	-8.88E-02	7.18E-02	2.32E-01
LB4110A - B2	Alpha	11/18/2007	6/18/2015	1.17E-01	P	-6.93E-02	7.46E-02	2.18E-01
LB4110A - B3	Alpha	11/18/2007	6/18/2015	1.17E-01	P	-6.19E-02	5.61E-02	1.74E-01
LB4110A - B4	Alpha	11/18/2007	6/18/2015	1.50E-01	P	-1.24E-01	7.64E-02	2.77E-01
LB4110A - C1	Alpha	11/18/2007	6/18/2015	1.17E-01	P	-1.32E-01	8.73E-02	3.07E-01
LB4110A - C2	Alpha	11/18/2007	6/18/2015	5.00E-02	P	-1.60E-01	7.86E-02	3.18E-01
LB4110A - C3	Alpha	11/18/2007	6/18/2015	1.67E-02	P	-1.58E-01	9.12E-02	3.40E-01
LB4110A - C4	Alpha	11/18/2007	6/18/2015	1.17E-01	P	-6.39E-02	6.93E-02	2.03E-01
LB4110A - D1	Alpha	11/18/2007	6/18/2015	5.00E-02	P	-5.38E-02	7.84E-02	2.11E-01
LB4110A - D2	Alpha	11/18/2007	6/18/2015	5.00E-02	P	-6.71E-02	6.00E-02	1.87E-01
LB4110A - D3	Alpha	11/18/2007	6/18/2015	8.33E-02	P	-5.16E-02	6.51E-02	1.82E-01
LB4110A - D4	Alpha	11/18/2007	6/18/2015	6.67E-02	P	-6.49E-02	6.86E-02	2.02E-01
LB4110R - A1	Alpha	11/24/2006	6/18/2015	1.33E-01	P	-9.11E-02	9.60E-02	2.83E-01
LB4110R - A2	Alpha	11/24/2006	6/18/2015	8.33E-02	P	-8.35E-02	7.08E-02	2.25E-01
LB4110R - A3	Alpha	11/24/2006	6/18/2015	1.50E-01	P	-6.84E-02	8.16E-02	2.32E-01
LB4110R - A4	Alpha	11/24/2006	6/18/2015	1.67E-01	P	-5.11E-02	6.90E-02	1.89E-01
LB4110R - B1	Alpha	11/24/2006	6/18/2015	1.17E-01	P	-8.66E-02	6.16E-02	2.10E-01
LB4110R - B2	Alpha	11/24/2006	6/18/2015	3.33E-02	P	-1.87E+00	1.02E-01	2.08E+00
LB4110R - B3	Alpha	11/24/2006	6/18/2015	5.00E-02	P	-6.42E-02	7.14E-02	2.07E-01
LB4110R - B4	Alpha	11/24/2006	6/18/2015	5.00E-02	P	-6.00E-02	6.79E-02	1.96E-01
LB4110R - C1	Alpha	11/24/2006	6/18/2015	6.67E-02	P	-7.33E-02	7.19E-02	2.17E-01
LB4110R - C2	Alpha	11/24/2006	6/18/2015	6.67E-02	P	-7.37E-02	6.65E-02	2.07E-01
LB4110R - C3	Alpha	11/24/2006	6/18/2015	8.33E-02	P	-7.98E-02	8.35E-02	2.47E-01
LB4110R - C4	Alpha	11/24/2006	6/18/2015	1.67E-02	P	-5.89E-02	7.70E-02	2.13E-01
LB4110R - D1	Alpha	11/24/2006	11/1/2014	0.00E+00	P	-1.06E-01	6.70E-02	2.40E-01
LB4110R - D2	Alpha	11/24/2006	11/1/2014	0.00E+00	P	-8.23E-02	6.65E-02	2.15E-01
LB4110R - D3	Alpha	11/24/2006	11/1/2014	0.00E+00	P	-8.71E-02	6.63E-02	2.20E-01
LB4110R - D4	Alpha	11/24/2006	11/1/2014	0.00E+00	P	-8.04E-02	7.08E-02	2.22E-01
LB5100 - 1	Alpha	7/10/2006	10/26/2007	5.00E-02	P	-1.56E-02	9.58E-02	2.07E-01

GPC Detector Report
(ALL Backgrounds)

Detector	Alpha/Beta	Calibration Date	Count Date	Bkg CPM	PFW	LCL	Mean	UCL
LB4110A - A1	Beta	11/18/2007	6/18/2015	1.60E+00	P	-2.53E+02	6.66E+00	2.66E+02
LB4110A - A2	Beta	11/18/2007	6/18/2015	1.73E+00	P	-2.64E+01	2.61E+00	3.16E+01
LB4110A - A3	Beta	11/18/2007	6/18/2015	1.67E+00	P	-4.38E+01	2.50E+00	4.88E+01
LB4110A - A4	Beta	11/18/2007	6/18/2015	5.53E+00	F	-2.76E+01	4.09E+00	3.58E+01
LB4110A - B1	Beta	11/18/2007	6/18/2015	1.83E+00	P	-9.10E+00	2.92E+00	1.49E+01
LB4110A - B2	Beta	11/18/2007	6/18/2015	1.38E+00	P	-6.57E+00	1.87E+00	1.03E+01
LB4110A - B3	Beta	11/18/2007	6/18/2015	1.37E+00	P	-3.18E-01	1.41E+00	3.14E+00
LB4110A - B4	Beta	11/18/2007	6/18/2015	1.58E+00	P	-6.53E+00	1.88E+00	1.03E+01
LB4110A - C1	Beta	11/18/2007	6/18/2015	1.43E+00	P	-4.64E+00	1.97E+00	8.57E+00
LB4110A - C2	Beta	11/18/2007	6/18/2015	1.15E+00	P	3.96E-01	1.27E+00	2.15E+00
LB4110A - C3	Beta	11/18/2007	6/18/2015	1.72E+00	P	4.57E-01	1.55E+00	2.63E+00
LB4110A - C4	Beta	11/18/2007	6/18/2015	1.40E+00	P	-1.55E+00	1.94E+00	5.42E+00
LB4110A - D1	Beta	11/18/2007	6/18/2015	2.02E+00	F	-2.14E+00	2.43E+00	7.01E+00
LB4110A - D2	Beta	11/18/2007	6/18/2015	6.07E+00	F	-3.82E+00	2.26E+00	8.33E+00
LB4110A - D3	Beta	11/18/2007	6/18/2015	2.57E+00	F	3.44E-01	4.13E+00	7.92E+00
LB4110A - D4	Beta	11/18/2007	6/18/2015	9.77E+00	F	-7.45E+00	2.31E+00	1.21E+01
LB4110R - A1	Beta	11/24/2006	6/18/2015	1.30E+00	P	-5.42E+01	3.19E+00	6.06E+01
LB4110R - A2	Beta	11/24/2006	6/18/2015	1.07E+00	P	-4.28E+01	1.91E+00	4.67E+01
LB4110R - A3	Beta	11/24/2006	6/18/2015	1.33E+00	P	-3.98E+01	2.46E+00	4.47E+01
LB4110R - A4	Beta	11/24/2006	6/18/2015	2.47E+00	F	-3.94E+01	2.03E+00	4.35E+01
LB4110R - B1	Beta	11/24/2006	6/18/2015	1.57E+00	P	-4.16E+01	1.90E+00	4.54E+01
LB4110R - B2	Beta	11/24/2006	6/18/2015	1.73E+00	P	-4.87E+01	4.17E+00	5.70E+01
LB4110R - B3	Beta	11/24/2006	6/18/2015	1.38E+00	P	-4.15E+01	2.39E+00	4.63E+01
LB4110R - B4	Beta	11/24/2006	6/18/2015	1.00E+00	P	-4.17E+01	1.79E+00	4.53E+01
LB4110R - C1	Beta	11/24/2006	6/18/2015	1.50E+00	P	-4.17E+01	2.63E+00	4.69E+01
LB4110R - C2	Beta	11/24/2006	6/18/2015	1.55E+00	P	-4.15E+01	2.50E+00	4.65E+01
LB4110R - C3	Beta	11/24/2006	6/18/2015	1.13E+00	P	-4.20E+01	2.30E+00	4.66E+01
LB4110R - C4	Beta	11/24/2006	6/18/2015	1.32E+00	P	-4.74E+01	2.64E+00	5.27E+01
LB4110R - D1	Beta	11/24/2006	11/1/2014	0.00E+00	P	-4.36E+01	5.31E+00	5.43E+01
LB4110R - D2	Beta	11/24/2006	11/1/2014	0.00E+00	P	-4.67E+01	1.79E+00	5.03E+01
LB4110R - D3	Beta	11/24/2006	11/1/2014	0.00E+00	P	-5.02E+01	5.28E+00	6.07E+01
LB4110R - D4	Beta	11/24/2006	11/1/2014	0.00E+00	P	-4.64E+01	2.13E+00	5.07E+01
LB5100 - 1	Beta	7/10/2006	10/26/2007	4.52E+00	F	-3.19E-01	1.58E+00	3.48E+00

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Eberline Analytical
Oak Ridge Laboratory

GPC Detector Report
(ALL Efficiencies)

Printed: 6/18/2015 7:27 AM

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Detector	Alpha/Beta	Calibration Date	Count Date	Eff	PFW	LCL	Mean	UCL
LB4110A - A1	Alpha	11/18/2007	6/18/2015	0.2236	P	0.0187	0.2197	0.4207
LB4110A - A2	Alpha	11/18/2007	6/18/2015	0.2004	P	-0.0183	0.1803	0.3789
LB4110A - A3	Alpha	11/18/2007	6/18/2015	0.2160	P	-0.0394	0.1722	0.3837
LB4110A - A4	Alpha	11/18/2007	6/18/2015	0.2130	P	-0.0184	0.1927	0.4038
LB4110A - B1	Alpha	11/18/2007	6/18/2015	0.2031	P	0.1950	0.2231	0.2512
LB4110A - B2	Alpha	11/18/2007	6/18/2015	0.2063	P	0.1880	0.2181	0.2482
LB4110A - B3	Alpha	11/18/2007	6/18/2015	0.2282	P	0.1405	0.2324	0.3244
LB4110A - B4	Alpha	11/18/2007	6/18/2015	0.2263	P	0.2055	0.2337	0.2619
LB4110A - C1	Alpha	11/18/2007	6/18/2015	0.2131	P	0.1974	0.2195	0.2415
LB4110A - C2	Alpha	11/18/2007	6/18/2015	0.2237	P	0.1995	0.2248	0.2501
LB4110A - C3	Alpha	11/18/2007	6/18/2015	0.2453	P	0.2244	0.2485	0.2727
LB4110A - C4	Alpha	11/18/2007	6/18/2015	0.2166	P	0.1985	0.2246	0.2507
LB4110A - D1	Alpha	11/18/2007	6/18/2015	0.2218	P	0.1798	0.2293	0.2788
LB4110A - D2	Alpha	11/18/2007	6/18/2015	0.2352	P	0.2021	0.2548	0.3074
LB4110A - D3	Alpha	11/18/2007	6/18/2015	0.2470	P	0.2064	0.2604	0.3144
LB4110A - D4	Alpha	11/18/2007	6/18/2015	0.1858	P	0.1496	0.1966	0.2437
LB4110R - A1	Alpha	11/24/2006	6/18/2015	0.2341	P	0.2006	0.2372	0.2738
LB4110R - A2	Alpha	11/24/2006	6/18/2015	0.2159	P	0.1846	0.2180	0.2514
LB4110R - A3	Alpha	11/24/2006	6/18/2015	0.2364	P	0.1924	0.2229	0.2533
LB4110R - A4	Alpha	11/24/2006	6/18/2015	0.2184	W	0.2119	0.2438	0.2758
LB4110R - B1	Alpha	11/24/2006	6/18/2015	0.1873	P	0.1686	0.2215	0.2744
LB4110R - B2	Alpha	11/24/2006	6/18/2015	0.1978	P	0.1634	0.2128	0.2622
LB4110R - B3	Alpha	11/24/2006	6/18/2015	0.2334	P	0.1946	0.2422	0.2899
LB4110R - B4	Alpha	11/24/2006	6/18/2015	0.2123	P	0.1781	0.2271	0.2761
LB4110R - C1	Alpha	11/24/2006	6/18/2015	0.1976	P	0.1795	0.2132	0.2469
LB4110R - C2	Alpha	11/24/2006	6/18/2015	0.2105	P	0.1888	0.2219	0.2551
LB4110R - C3	Alpha	11/24/2006	6/18/2015	0.2287	P	0.2030	0.2373	0.2716
LB4110R - C4	Alpha	11/24/2006	6/18/2015	0.2009	P	0.1766	0.2184	0.2601
LB4110R - D1	Alpha	11/24/2006	11/1/2014	0.0000	W	-0.0281	0.1904	0.4089
LB4110R - D2	Alpha	11/24/2006	11/1/2014	0.0000	W	-0.0314	0.2165	0.4644
LB4110R - D3	Alpha	11/24/2006	11/1/2014	0.0000	W	-0.0308	0.2127	0.4562
LB4110R - D4	Alpha	11/24/2006	11/1/2014	0.0000	W	-0.0260	0.1714	0.3689
LB5100 - 1	Alpha	7/10/2006	10/26/2007	0.3368	P	0.3332	0.3455	0.3578

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GPC Detector Report
(ALL Efficiencies)

Detector	Alpha/Beta	Calibration Date	Count Date	Eff	PFW	LCL	Mean	UCL
LB4110A - A1	Beta	11/18/2007	6/18/2015	0.5477	P	0.2550	0.5627	0.8704
LB4110A - A2	Beta	11/18/2007	6/18/2015	0.4653	P	0.2016	0.4674	0.7333
LB4110A - A3	Beta	11/18/2007	6/18/2015	0.5440	P	0.1412	0.4658	0.7904
LB4110A - A4	Beta	11/18/2007	6/18/2015	0.5162	P	0.1912	0.5060	0.8209
LB4110A - B1	Beta	11/18/2007	6/18/2015	0.5278	P	0.4680	0.5344	0.6008
LB4110A - B2	Beta	11/18/2007	6/18/2015	0.5167	P	0.4690	0.5268	0.5845
LB4110A - B3	Beta	11/18/2007	6/18/2015	0.5767	P	0.3446	0.5445	0.7444
LB4110A - B4	Beta	11/18/2007	6/18/2015	0.5690	P	0.4969	0.5565	0.6161
LB4110A - C1	Beta	11/18/2007	6/18/2015	0.5040	P	0.4389	0.5128	0.5867
LB4110A - C2	Beta	11/18/2007	6/18/2015	0.5461	P	0.4036	0.5183	0.6330
LB4110A - C3	Beta	11/18/2007	6/18/2015	0.6226	P	0.5281	0.5993	0.6705
LB4110A - C4	Beta	11/18/2007	6/18/2015	0.5616	P	0.4547	0.5353	0.6158
LB4110A - D1	Beta	11/18/2007	6/18/2015	0.6769	P	0.3810	0.5748	0.7685
LB4110A - D2	Beta	11/18/2007	6/18/2015	0.6319	P	0.4397	0.5966	0.7535
LB4110A - D3	Beta	11/18/2007	6/18/2015	0.6287	P	0.4828	0.6187	0.7547
LB4110A - D4	Beta	11/18/2007	6/18/2015	0.4771	P	0.3568	0.4725	0.5882
LB4110R - A1	Beta	11/24/2006	6/18/2015	0.5742	P	0.4848	0.5704	0.6560
LB4110R - A2	Beta	11/24/2006	6/18/2015	0.5277	P	0.4266	0.5123	0.5980
LB4110R - A3	Beta	11/24/2006	6/18/2015	0.6101	W	0.4572	0.5396	0.6219
LB4110R - A4	Beta	11/24/2006	6/18/2015	0.5417	P	0.5105	0.5953	0.6802
LB4110R - B1	Beta	11/24/2006	6/18/2015	0.4884	P	0.4290	0.5383	0.6476
LB4110R - B2	Beta	11/24/2006	6/18/2015	0.4912	P	0.4077	0.5149	0.6220
LB4110R - B3	Beta	11/24/2006	6/18/2015	0.5993	P	0.4833	0.5957	0.7080
LB4110R - B4	Beta	11/24/2006	6/18/2015	0.5383	P	0.4438	0.5469	0.6500
LB4110R - C1	Beta	11/24/2006	6/18/2015	0.4864	P	0.4156	0.5008	0.5860
LB4110R - C2	Beta	11/24/2006	6/18/2015	0.5180	P	0.4361	0.5350	0.6339
LB4110R - C3	Beta	11/24/2006	6/18/2015	0.5761	P	0.4853	0.5745	0.6638
LB4110R - C4	Beta	11/24/2006	6/18/2015	0.5153	P	0.4343	0.5256	0.6169
LB4110R - D1	Beta	11/24/2006	11/1/2014	0.0000	W	-0.0678	0.4553	0.9785
LB4110R - D2	Beta	11/24/2006	11/1/2014	0.0000	W	-0.0756	0.5116	1.0989
LB4110R - D3	Beta	11/24/2006	11/1/2014	0.0000	W	-0.0736	0.4969	1.0674
LB4110R - D4	Beta	11/24/2006	11/1/2014	0.0000	W	-0.0630	0.4090	0.8811
LB5100 - 1	Beta	7/10/2006	10/26/2007	0.4428	F	0.4555	0.4731	0.4906

SECTION XII

BARIUM-133 ANALYTICAL TRACER DATA

Apex-Gamma

Analysis Report for 1506043-01
SPIKE

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GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-01
Sample Description	: SPIKE
Sample Type	: RA RECOVERY
Sample Size	: 1.000E+00 units
Facility	: Countroom
Sample Taken On	: 6/16/2015 5:29:52AM
Acquisition Started	: 6/16/2015 6:05:32AM
Procedure	: BAFIL
Operator	: Administrator
Detector Name	: GE1
Geometry	: BAFIL
Live Time	: 900.0 seconds
Real Time	: 900.3 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/9/2014
Efficiency Calibration Description	:
Sample Number	: 23466

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/16/2015 6:20:35AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)

Analysis Report for 1506043-01

SPIKE

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	30.93	27 -	41	31.29	2.06E+03	93.96	1.45E+02	1.70
m	2	35.32	27 -	41	35.67	5.38E+02	55.88	1.16E+02	1.92
	3	52.50	49 -	55	52.85	4.51E+01	35.47	1.96E+02	2.55
M	4	61.90	58 -	70	62.25	2.41E+02	42.89	1.81E+02	1.73
m	5	66.23	58 -	70	66.58	1.01E+02	35.83	1.67E+02	1.75
	6	81.26	76 -	87	81.60	8.37E+02	78.56	3.51E+02	1.96
M	7	111.90	108 -	120	112.23	1.73E+02	38.35	1.43E+02	2.02
m	8	116.04	108 -	120	116.37	3.42E+01	33.99	1.36E+02	2.03
	9	160.06	157 -	163	160.37	3.52E+01	29.90	1.38E+02	1.13
M	10	253.56	251 -	260	253.85	1.49E+01	14.45	3.02E+01	1.69
m	11	257.78	251 -	260	258.06	1.43E+01	13.29	2.25E+01	1.70
	12	276.72	273 -	282	276.99	4.88E+01	29.24	9.25E+01	1.83
M	13	294.76	290 -	312	295.03	1.70E+01	13.44	1.67E+01	1.73
m	14	302.89	290 -	312	303.16	1.35E+02	26.62	2.79E+01	1.74
m	15	307.58	290 -	312	307.84	2.70E+01	16.99	3.65E+01	1.75
M	16	333.86	330 -	345	334.12	8.53E+01	22.13	4.53E+01	1.83
m	17	338.27	330 -	345	338.52	2.39E+01	21.72	3.90E+01	2.36
M	18	352.74	351 -	362	352.98	2.19E+01	12.81	1.27E+01	2.54
m	19	356.11	351 -	362	356.36	5.51E+02	48.63	3.37E+01	1.62
M	20	364.72	362 -	374	364.97	1.71E+01	14.39	3.55E+01	1.80
m	21	368.71	362 -	374	368.95	1.18E+01	12.45	2.43E+01	1.80
M	22	383.64	374 -	398	383.88	1.35E+02	25.46	2.10E+01	1.81
m	23	386.93	374 -	398	387.16	2.04E+02	36.94	2.27E+01	1.82
m	24	391.60	374 -	398	391.83	3.73E+01	16.98	2.46E+01	1.82
M	25	414.61	410 -	421	414.83	3.63E+01	19.95	3.54E+01	1.84
m	26	417.61	410 -	421	417.83	2.48E+01	21.40	5.36E+01	1.84
	27	437.07	432 -	441	437.29	1.18E+02	28.09	4.53E+01	1.93
	28	919.15	916 -	921	919.20	5.00E+00	4.47	0.00E+00	2.75

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/16/2015 6:20:35AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023400.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	30.93	2.06E+03	93.96			2.06E+03	9.40E+01

Analysis Report for 1506043-01

SPIKE

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	2	35.32	5.38E+02	55.88			5.38E+02	5.59E+01
	3	52.50	4.51E+01	35.47			4.51E+01	3.55E+01
M	4	61.90	2.41E+02	42.89			2.41E+02	4.29E+01
m	5	66.23	1.01E+02	35.83			1.01E+02	3.58E+01
	6	81.26	8.37E+02	78.56			8.37E+02	7.86E+01
M	7	111.90	1.73E+02	38.35	2.62E+00	1.91E+00	1.71E+02	3.84E+01
m	8	116.04	3.42E+01	33.99			3.42E+01	3.40E+01
	9	160.06	3.52E+01	29.90			3.52E+01	2.99E+01
M	10	253.56	1.49E+01	14.45			1.49E+01	1.44E+01
m	11	257.78	1.43E+01	13.29			1.43E+01	1.33E+01
	12	276.72	4.88E+01	29.24			4.88E+01	2.92E+01
M	13	294.76	1.70E+01	13.44			1.70E+01	1.34E+01
m	14	302.89	1.35E+02	26.62			1.35E+02	2.66E+01
m	15	307.58	2.70E+01	16.99			2.70E+01	1.70E+01
M	16	333.86	8.53E+01	22.13			8.53E+01	2.21E+01
m	17	338.27	2.39E+01	21.72			2.39E+01	2.17E+01
M	18	352.74	2.19E+01	12.81	1.53E+00	1.25E+00	2.04E+01	1.29E+01
m	19	356.11	5.51E+02	48.63			5.51E+02	4.86E+01
M	20	364.72	1.71E+01	14.39			1.71E+01	1.44E+01
m	21	368.71	1.18E+01	12.45			1.18E+01	1.24E+01
M	22	383.64	1.35E+02	25.46			1.35E+02	2.55E+01
m	23	386.93	2.04E+02	36.94			2.04E+02	3.69E+01
m	24	391.60	3.73E+01	16.98			3.73E+01	1.70E+01
M	25	414.61	3.63E+01	19.95			3.63E+01	1.99E+01
m	26	417.61	2.48E+01	21.40			2.48E+01	2.14E+01
	27	437.07	1.18E+02	28.09			1.18E+02	2.81E+01
	28	919.15	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/units)	Activity Uncertainty
SN-113	0.96	255.12		1.93		
		391.69	*	61.90	2.21E+01	1.02E+01

Analysis Report for 1506043-01

SPIKE

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/units)	Activity Uncertainty
I-125	0.99	35.49	*	6.49	1.00E+01	1.04E+00
BA-133	0.99	30.80	*	97.60	8.60E-01	6.58E-02
		81.00	*	33.00	4.41E+02	8.31E+01
		302.84	*	17.80	5.32E+02	2.00E+02
		356.01	*	60.00	4.44E+02	7.25E+01
		383.85	*	8.70	6.04E+02	4.35E+02
PA-231	1.00	9.28		42.00		
		10.11		20.20		
		283.67		1.60		
		302.67	*	2.30	4.11E+03	1.49E+03

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/units)	Wt mean Activity Uncertainty	Comments
SN-113	0.968	2.21E+01	1.02E+01	
I-125	0.995	1.00E+01	1.04E+00	
BA-133	0.996	8.60E-01	3.92E-02	
PA-231	1.000	4.11E+03	1.49E+03	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-01

SPIKE

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/16/2015 6:20:35AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	52.50	5.00777E-02	39.35		
M	4	61.90	2.68324E-01	8.88	Sum	
m	5	66.23	1.12635E-01	17.67	Sum	
M	7	111.90	1.89532E-01	11.26	Sum	
m	8	116.04	3.80514E-02	49.62	Sum	
	9	160.06	3.91453E-02	42.43		
M	10	253.56	1.65662E-02	48.45		
m	11	257.78	1.58510E-02	46.60		
	12	276.72	5.41813E-02	29.98		
M	13	294.76	1.88440E-02	39.64		
m	15	307.58	2.99555E-02	31.51		
M	16	333.86	9.47381E-02	12.98	Sum	
m	17	338.27	2.65260E-02	45.49	Sum	
M	18	352.74	2.26748E-02	31.53		
M	20	364.72	1.89945E-02	42.08		
m	21	368.71	1.31449E-02	52.62		
m	23	386.93	2.26295E-01	9.07	Sum	
M	25	414.61	4.03497E-02	27.47	Sum	
m	26	417.61	2.75995E-02	43.08		
	27	437.07	1.31525E-01	11.86	Sum	
	28	919.15	5.55556E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

Analysis Report for 1506043-01

SPIKE

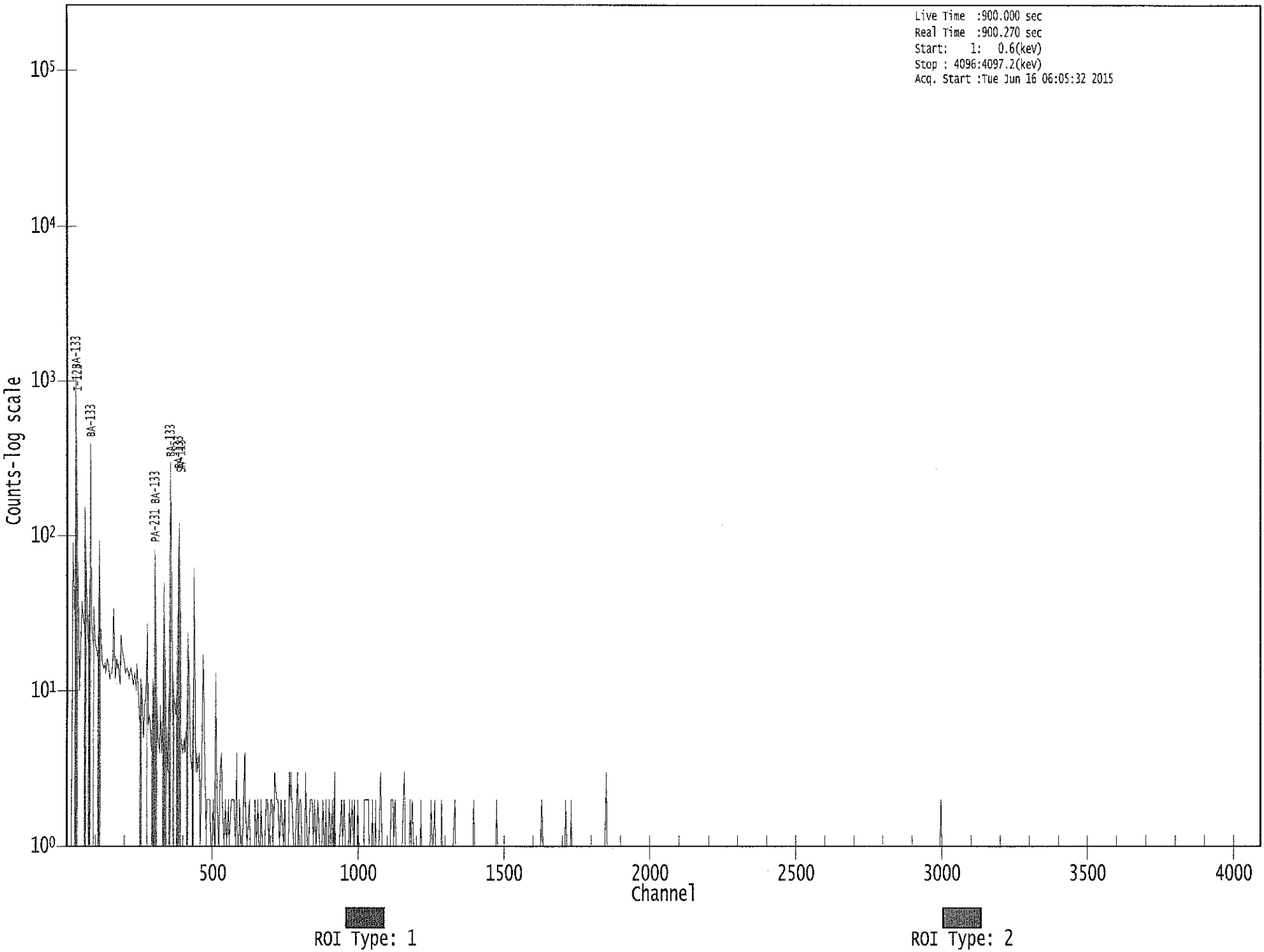
	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/units)	Nuclide MDA (pCi/units)	Activity (pCi/units)	Dec. Level (pCi/units)
	FE-55	5.89		24.50	6.60E-12	6.60E-12	0.00E+00	0.00E+00
	CO-57	122.06		85.51	2.83E+01	2.83E+01	5.49E+00	1.31E+01
		136.48		10.60	2.77E+02		-3.88E+01	1.29E+02
	NI-59	6.92		29.80	6.84E-11	6.84E-11	0.00E+00	0.00E+00
	MO-93	16.59		52.90	2.56E-05	2.56E-05	-3.39E-05	1.06E-05
		18.60		10.00	1.67E-03		1.96E-04	7.94E-04
	NB-93M	16.57		9.43	1.42E-04	1.42E-04	-1.88E-04	5.89E-05
	CD-109	88.03		3.72	2.64E+02	2.64E+02	4.20E+01	1.23E+02
+	SN-113	255.12		1.93	1.38E+03	3.88E+01	-2.76E+02	6.25E+02
		391.69	*	61.90	3.88E+01		2.21E+01	1.86E+01
	SN-119M	23.87		16.10	1.81E-02	1.72E-02	1.91E-02	8.70E-03
		25.10		22.70	1.72E-02		6.07E-03	8.22E-03
+	I-125	35.49	*	6.49	1.81E+00	1.81E+00	1.00E+01	8.81E-01
	I-129	29.78		57.00	1.11E-01	1.11E-01	9.90E-01	5.48E-02
		33.60		13.20	1.04E+00		-3.09E+00	5.11E-01
		39.58		7.52	1.49E+00		-3.30E+00	6.93E-01
+	BA-133	30.80	*	97.60	4.11E-02	4.11E-02	8.60E-01	2.00E-02
		81.00	*	33.00	4.76E+01		4.41E+02	2.31E+01
		302.84	*	17.80	2.63E+02		5.32E+02	1.26E+02
		356.01	*	60.00	3.28E+01		4.44E+02	1.53E+01
		383.85	*	8.70	2.93E+02		6.04E+02	1.41E+02
	CE-139	165.85		80.35	4.35E+01	4.35E+01	-3.17E+00	2.01E+01
	CE-144	133.54		10.80	2.51E+02	2.51E+02	3.19E+00	1.16E+02
	HG-203	279.19		77.30	3.80E+01	3.80E+01	2.09E+01	1.76E+01
	PB-210	10.80		9.57	1.23E-07	1.23E-07	0.00E+00	0.00E+00
		46.50		4.25	8.25E+00		4.10E+00	3.84E+00
+	PA-231	9.28		42.00	3.55E-09	3.55E-09	0.00E+00	0.00E+00
		10.11		20.20	2.40E-08		0.00E+00	0.00E+00
		283.67		1.60	1.31E+03		1.62E+02	5.86E+02
		302.67	*	2.30	2.04E+03		4.11E+03	9.76E+02
	TH-231	25.64		14.70	2.90E-02	2.90E-02	7.13E-03	1.38E-02
		84.21		6.40	1.69E+02		-1.53E+03	8.03E+01
	PA-234	9.89		89.00	4.04E-09	4.04E-09	0.00E+00	0.00E+00
		21.72		64.90	2.01E-03		5.79E-03	9.75E-04
		37.93		23.75	8.14E-01		1.99E+00	3.95E-01
		131.42		20.40	1.25E+02		-4.57E+01	5.79E+01
	TH-234	63.29		3.80	1.32E+02	1.32E+02	1.05E+02	6.41E+01
	NP-237	29.37		14.00	4.01E-01	4.01E-01	3.58E+00	1.98E-01
		86.50		12.60	8.14E+01		2.30E+01	3.83E+01
	U-237	97.08		16.30	9.11E+01	5.69E+01	-1.03E+00	4.27E+01
		101.07		26.30	5.69E+01		-4.55E+01	2.65E+01
		114.00		12.30	3.22E+02		4.21E+02	1.55E+02
		208.01		22.00	1.65E+02		6.01E+01	7.60E+01
	AM-241	59.54		35.90	8.41E+00	8.41E+00	1.68E+00	4.06E+00
	AM-243	74.67		66.00	8.11E+00	8.11E+00	4.55E-01	3.81E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506043-01

SPIKE

0000023466.CNF



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Apex-Gamma

Analysis Report for 1506043-02
BLANK

6/16

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-02
Sample Description	: BLANK
Sample Type	: RA RECOVERY
Sample Size	: 1.000E+00 units
Facility	: Countroom
Sample Taken On	: 6/16/2015 5:30:03AM
Acquisition Started	: 6/16/2015 6:05:40AM
Procedure	: BAFIL
Operator	: Administrator
Detector Name	: GE2
Geometry	: BAFIL
Live Time	: 900.0 seconds
Real Time	: 900.3 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 11/9/2014
Efficiency Calibration Description	:
Sample Number	: 23467

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/16/2015 6:20:47AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)

Analysis Report for 1506043-02

BLANK

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	20.90	18 -	24	21.02	7.61E+01	50.89	4.14E+02	1.76
M	2	30.99	27 -	39	31.11	1.83E+03	94.47	2.68E+02	1.33
m	3	35.18	27 -	39	35.29	4.20E+02	54.00	2.34E+02	1.33
	4	45.58	42 -	49	45.69	5.85E+01	45.87	3.11E+02	1.83
	5	52.96	50 -	57	53.06	8.27E+01	42.05	2.31E+02	2.39
M	6	61.99	58 -	73	62.08	2.30E+02	38.34	1.16E+02	1.77
m	7	66.18	58 -	73	66.27	1.26E+02	32.34	1.19E+02	1.77
	8	81.17	77 -	85	81.26	8.12E+02	70.10	2.56E+02	1.64
M	9	111.96	108 -	120	112.03	1.44E+02	33.23	1.08E+02	1.29
m	10	116.16	108 -	120	116.22	2.63E+01	23.83	1.22E+02	1.30
	11	219.01	215 -	224	219.02	2.87E+01	29.70	1.09E+02	5.78
	12	248.79	246 -	252	248.78	1.70E+01	17.29	4.20E+01	3.34
	13	276.84	273 -	282	276.82	4.31E+01	31.62	1.14E+02	1.84
M	14	302.93	300 -	310	302.90	1.64E+02	27.64	3.13E+01	1.47
m	15	307.18	300 -	310	307.14	2.54E+01	17.44	4.39E+01	1.51
	16	312.50	311 -	315	312.46	1.12E+01	13.98	3.15E+01	1.29
	17	333.77	330 -	337	333.71	5.65E+01	29.60	1.09E+02	1.32
	18	356.19	354 -	359	356.12	5.24E+02	47.39	3.00E+01	1.40
M	19	384.06	382 -	389	383.97	1.06E+02	28.72	6.38E+01	1.54
m	20	387.00	382 -	389	386.91	1.91E+02	31.69	5.62E+01	1.45
	21	391.32	390 -	395	391.23	3.73E+01	20.90	4.94E+01	1.81
M	22	414.78	409 -	421	414.68	2.41E+01	15.73	2.79E+01	1.82
m	23	418.23	409 -	421	418.13	1.43E+01	16.84	4.32E+01	1.83
	24	437.23	434 -	441	437.12	9.04E+01	20.69	9.22E+00	1.50
	25	467.15	462 -	471	467.02	1.90E+01	16.91	3.00E+01	1.95
m	26	516.06	507 -	519	515.91	6.45E+00	8.66	2.02E+00	2.15
	27	524.15	521 -	526	524.00	6.00E+00	4.90	0.00E+00	2.88
	28	628.60	625 -	630	628.40	5.00E+00	4.47	0.00E+00	1.24
	29	843.80	840 -	846	843.51	5.36E+00	6.34	3.29E+00	2.72
	30	898.84	895 -	901	898.52	5.29E+00	6.34	3.43E+00	2.84
	31	911.83	909 -	914	911.51	6.75E+00	6.40	2.50E+00	1.27
	32	1309.64	1305 -	1311	1309.17	6.00E+00	4.90	0.00E+00	2.74

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/16/2015 6:20:47AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023401.CNF

Analysis Report for 1506043-02

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	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	20.90	7.61E+01	50.89			7.61E+01	5.09E+01
M	2	30.99	1.83E+03	94.47			1.83E+03	9.45E+01
m	3	35.18	4.20E+02	54.00			4.20E+02	5.40E+01
	4	45.58	5.85E+01	45.87			5.85E+01	4.59E+01
	5	52.96	8.27E+01	42.05			8.27E+01	4.20E+01
M	6	61.99	2.30E+02	38.34			2.30E+02	3.83E+01
m	7	66.18	1.26E+02	32.34			1.26E+02	3.23E+01
	8	81.17	8.12E+02	70.10			8.12E+02	7.01E+01
M	9	111.96	1.44E+02	33.23			1.44E+02	3.32E+01
m	10	116.16	2.63E+01	23.83			2.63E+01	2.38E+01
	11	219.01	2.87E+01	29.70			2.87E+01	2.97E+01
	12	248.79	1.70E+01	17.29			1.70E+01	1.73E+01
	13	276.84	4.31E+01	31.62			4.31E+01	3.16E+01
M	14	302.93	1.64E+02	27.64			1.64E+02	2.76E+01
m	15	307.18	2.54E+01	17.44			2.54E+01	1.74E+01
	16	312.50	1.12E+01	13.98			1.12E+01	1.40E+01
	17	333.77	5.65E+01	29.60			5.65E+01	2.96E+01
	18	356.19	5.24E+02	47.39			5.24E+02	4.74E+01
M	19	384.06	1.06E+02	28.72	0.00E+00	0.00E+00	1.06E+02	2.87E+01
m	20	387.00	1.91E+02	31.69			1.91E+02	3.17E+01
	21	391.32	3.73E+01	20.90			3.73E+01	2.09E+01
M	22	414.78	2.41E+01	15.73			2.41E+01	1.57E+01
m	23	418.23	1.43E+01	16.84			1.43E+01	1.68E+01
	24	437.23	9.04E+01	20.69			9.04E+01	2.07E+01
	25	467.15	1.90E+01	16.91			1.90E+01	1.69E+01
m	26	516.06	6.45E+00	8.66			6.45E+00	8.66E+00
	27	524.15	6.00E+00	4.90			6.00E+00	4.90E+00
	28	628.60	5.00E+00	4.47			5.00E+00	4.47E+00
	29	843.80	5.36E+00	6.34			5.36E+00	6.34E+00
	30	898.84	5.29E+00	6.34			5.29E+00	6.34E+00
	31	911.83	6.75E+00	6.40	1.69E+00	7.94E-01	5.06E+00	6.45E+00
	32	1309.64	6.00E+00	4.90			6.00E+00	4.90E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506043-02

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/units)	Activity Uncertainty
SN-113	0.94	255.12		1.93		
		391.69	*	61.90	2.58E+01	1.46E+01
I-125	0.98	35.49	*	6.49	4.50E+01	5.78E+00
BA-133	0.99	30.80	*	97.60	6.71E+00	5.39E-01
		81.00	*	33.00	4.38E+02	7.77E+01
		302.84	*	17.80	5.43E+02	1.71E+02
		356.01	*	60.00	4.30E+02	7.16E+01
		383.85	*	8.70	5.37E+02	4.00E+02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/units)	Wt mean Activity Uncertainty	Comments
SN-113	0.940	2.58E+01	1.46E+01	
I-125	0.984	4.50E+01	5.78E+00	
BA-133	0.995	6.76E+00	5.39E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/16/2015 6:20:47AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	20.90	8.45033E-02	33.46		
	4	45.58	6.49896E-02	39.21	Tol.	PB-210
	5	52.96	9.19360E-02	25.41		
M	6	61.99	2.55247E-01	8.34	Sum	
m	7	66.18	1.39898E-01	12.84	Sum	
M	9	111.96	1.60189E-01	11.52	Sum	
m	10	116.16	2.91798E-02	45.38	Sum	
	11	219.01	3.18608E-02	51.79		
	12	248.79	1.88889E-02	50.86		
	13	276.84	4.79111E-02	36.67		
m	15	307.18	2.82452E-02	34.29		
	16	312.50	1.24897E-02	62.19		
	17	333.77	6.27828E-02	26.19	Sum	
m	20	387.00	2.12247E-01	8.29	Sum	
M	22	414.78	2.67495E-02	32.67	Sum	
m	23	418.23	1.58706E-02	58.94		
	24	437.23	1.00433E-01	11.44	Sum	
	25	467.15	2.11111E-02	44.50		
m	26	516.06	7.17149E-03	67.09		
	27	524.15	6.66667E-03	40.82		
	28	628.60	5.55556E-03	44.72		
	29	843.80	5.95238E-03	59.21		
	30	898.84	5.87302E-03	60.01		
	31	911.83	5.62758E-03	63.70		
	32	1309.64	6.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-02

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/units)	Nuclide MDA (pCi/units)	Activity (pCi/units)	Dec. Level (pCi/units)
	FE-55	5.89		24.50	6.04E-07	6.04E-07	-3.43E-06	2.44E-07
	CO-57	122.06		85.51	1.94E+01	1.94E+01	6.62E+00	9.00E+00
		136.48		10.60	1.78E+02		5.74E+01	8.24E+01
	NI-59	6.92		29.80	8.05E-06	8.05E-06	-2.11E-05	3.79E-06
	MO-93	16.59		52.90	6.51E-03	6.51E-03	-7.40E-05	3.07E-03
		18.60		10.00	8.15E-02		-9.20E-02	3.86E-02
	NB-93M	16.57		9.43	3.62E-02	3.62E-02	-4.12E-04	1.71E-02
	CD-109	88.03		3.72	2.27E+02	2.27E+02	3.30E+01	1.06E+02
+	SN-113	255.12		1.93	8.43E+02	2.12E+01	-5.93E+01	3.75E+02
		391.69	*	61.90	2.12E+01		2.58E+01	9.65E+00
	SN-119M	23.87		16.10	2.31E-01	2.31E-01	-2.33E-01	1.09E-01
		25.10		22.70	2.36E-01		6.78E-02	1.12E-01
+	I-125	35.49	*	6.49	1.39E+01	1.39E+01	4.50E+01	6.79E+00
	I-129	29.78		57.00	9.72E-01	9.72E-01	5.07E+00	4.79E-01
		33.60		13.20	3.96E+00		-2.60E+01	1.93E+00
		39.58		7.52	6.87E+00		-1.32E+00	3.21E+00
+	BA-133	30.80	*	97.60	4.79E-01	4.79E-01	6.71E+00	2.35E-01
		81.00	*	33.00	3.77E+01		4.38E+02	1.81E+01
		302.84	*	17.80	1.37E+02		5.43E+02	6.38E+01
		356.01	*	60.00	1.87E+01		4.30E+02	8.26E+00
		383.85	*	8.70	2.11E+02		5.37E+02	9.86E+01
	CE-139	165.85		80.35	2.81E+01	2.81E+01	-1.48E+00	1.30E+01
	CE-144	133.54		10.80	1.75E+02	1.75E+02	8.65E+01	8.14E+01
	HG-203	279.19		77.30	2.85E+01	2.85E+01	-3.86E+00	1.32E+01
	PB-210	10.80		9.57	3.18E-03	3.18E-03	-1.11E-02	1.55E-03
		46.50		4.25	2.89E+01		2.23E+01	1.36E+01
	PA-231	9.28		42.00	2.03E-04	2.03E-04	5.41E-04	9.93E-05
		10.11		20.20	9.43E-04		3.14E-03	4.61E-04
		283.67		1.60	8.31E+02		-6.49E+02	3.63E+02
		302.67		2.30	1.67E+03		3.95E+03	7.98E+02
	TH-231	25.64		14.70	4.18E-01	4.18E-01	1.19E-01	1.98E-01
		84.21		6.40	1.09E+02		-8.17E+02	5.05E+01
	PA-234	9.89		89.00	1.77E-04	1.77E-04	5.90E-04	8.68E-05
		21.72		64.90	4.07E-02		3.43E-02	1.94E-02
		37.93		23.75	1.93E+00		-6.85E+00	9.09E-01
		131.42		20.40	8.77E+01		-2.75E+01	4.07E+01
	TH-234	63.29		3.80	1.57E+02	1.57E+02	2.92E+02	7.55E+01
	NP-237	29.37		14.00	1.70E+00	1.70E+00	-3.51E+01	8.25E-01
		86.50		12.60	6.72E+01		-1.90E+01	3.13E+01
	U-237	97.08		16.30	6.30E+01	4.55E+01	-4.96E+00	2.92E+01
		101.07		26.30	4.55E+01		1.19E+01	2.12E+01
		114.00		12.30	2.32E+02		3.79E+02	1.12E+02
		208.01		22.00	1.07E+02		-1.08E+01	4.92E+01
	AM-241	59.54		35.90	8.69E+00	8.69E+00	-2.53E+01	4.09E+00
	AM-243	74.67		66.00	7.85E+00	7.85E+00	3.17E+00	3.64E+00

Analysis Report for 1506043-02

BLANK

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

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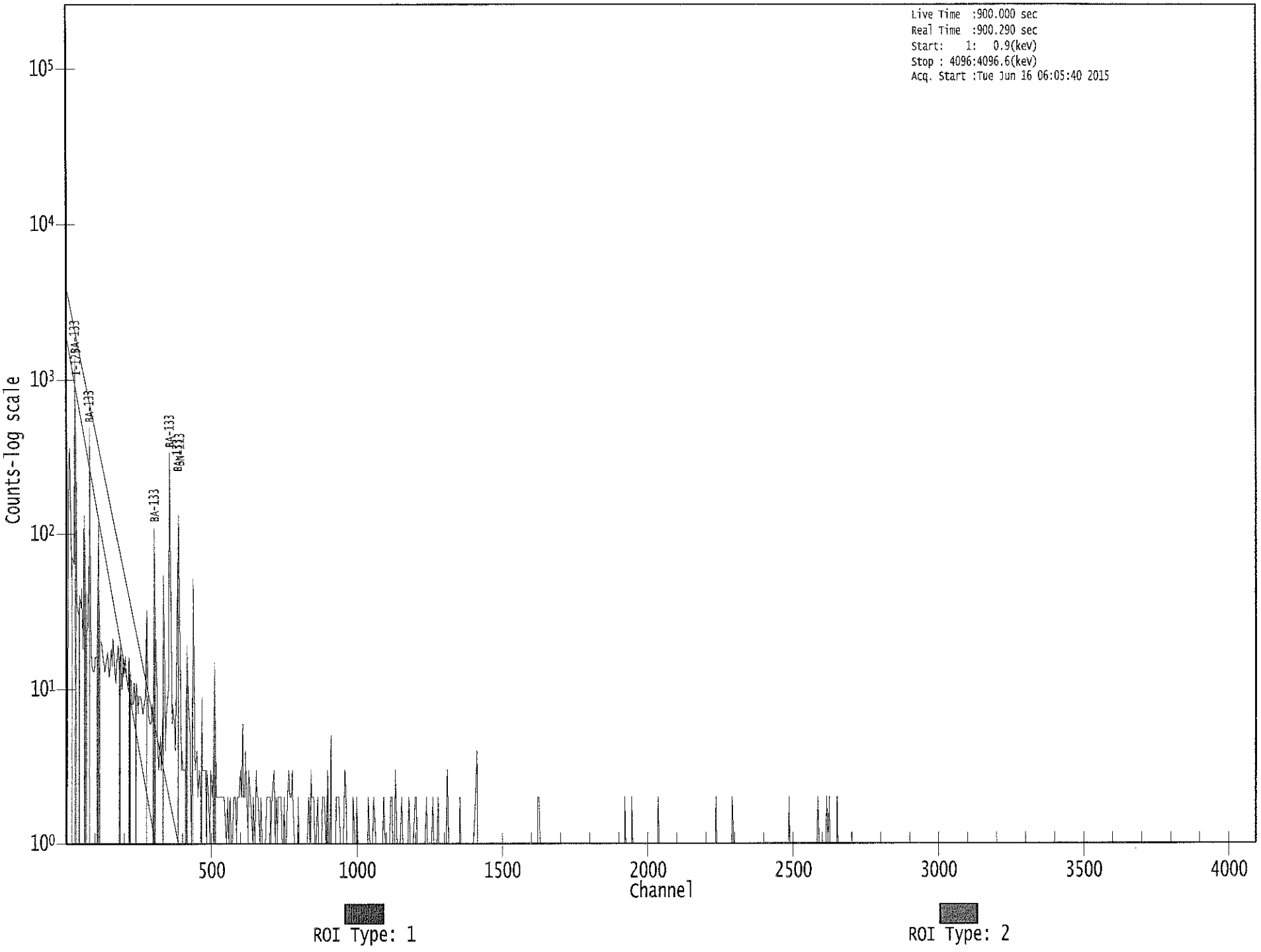

Apex-Gamma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

6/16

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-03
Sample Description	: FEEBRISID-09-088-089
Sample Type	: RA RECOVERY
Sample Size	: 1.000E+00 units
Facility	: Countroom
Sample Taken On	: 6/16/2015 5:30:23AM
Acquisition Started	: 6/16/2015 6:05:47AM
Procedure	: BAFIL
Operator	: Administrator
Detector Name	: GE3
Geometry	: BAFIL
Live Time	: 900.0 seconds
Real Time	: 903.1 seconds
Dead Time	: 0.34 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/9/2014
Efficiency Calibration Description	:
Sample Number	: 23468

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/16/2015 6:20:57AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	20.67	16 -	40	20.92	1.09E+02	42.43	2.09E+02	2.70
m	2	30.83	16 -	40	31.07	2.11E+03	94.44	1.38E+02	1.62
m	3	35.09	16 -	40	35.33	4.89E+02	67.82	1.72E+02	1.92
	4	52.22	48 -	56	52.45	4.69E+01	44.35	2.72E+02	3.59
M	5	61.93	57 -	73	62.15	2.45E+02	43.61	1.64E+02	1.98
m	6	65.93	57 -	73	66.15	1.30E+02	40.47	1.60E+02	1.99
m	7	70.28	57 -	73	70.50	2.13E+01	30.17	1.57E+02	2.00
	8	81.12	77 -	86	81.33	8.28E+02	70.13	2.27E+02	1.87
M	9	111.81	107 -	125	112.01	2.05E+02	37.74	1.13E+02	1.90
m	10	116.48	107 -	125	116.67	4.57E+01	27.64	9.88E+01	1.91
	11	276.86	274 -	282	276.97	7.71E+01	23.71	3.59E+01	2.09
	12	294.27	291 -	298	294.37	2.45E+01	18.44	4.09E+01	3.20
M	13	302.92	299 -	313	303.02	1.17E+02	24.73	3.57E+01	1.58
m	14	307.53	299 -	313	307.63	2.94E+01	20.54	3.88E+01	2.16
M	15	333.74	330 -	346	333.82	1.03E+02	22.41	1.92E+01	1.98
m	16	337.94	330 -	346	338.02	2.55E+01	15.56	1.44E+01	1.99
	17	356.10	352 -	360	356.17	3.94E+02	47.69	1.06E+02	1.64
	18	365.31	362 -	369	365.37	1.66E+01	17.32	3.68E+01	1.50
M	19	384.18	380 -	395	384.23	9.78E+01	35.37	5.02E+01	2.38
m	20	387.07	380 -	395	387.12	1.92E+02	35.17	2.74E+01	1.80
m	21	391.35	380 -	395	391.40	6.13E+01	24.22	1.82E+01	2.24
M	22	415.35	410 -	424	415.39	3.04E+01	16.77	1.87E+01	2.26
m	23	418.57	410 -	424	418.61	2.51E+01	18.36	1.63E+01	2.26
	24	437.04	433 -	441	437.07	8.80E+01	23.62	3.20E+01	1.61
	25	470.41	461 -	476	470.42	2.52E+01	20.59	3.36E+01	8.54
	26	489.22	486 -	492	489.22	9.00E+00	6.00	0.00E+00	2.00
	27	510.47	506 -	514	510.46	2.60E+01	10.20	0.00E+00	2.46
	28	608.86	606 -	612	608.80	1.00E+01	6.32	0.00E+00	3.75
	29	647.22	643 -	650	647.14	7.00E+00	5.29	0.00E+00	2.98
	30	695.36	691 -	698	695.26	7.17E+00	7.21	3.67E+00	2.63

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/16/2015 6:20:57AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023402.CNF

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	20.67	1.09E+02	42.43			1.09E+02	4.24E+01
m	2	30.83	2.11E+03	94.44			2.11E+03	9.44E+01
m	3	35.09	4.89E+02	67.82			4.89E+02	6.78E+01
	4	52.22	4.69E+01	44.35			4.69E+01	4.44E+01
M	5	61.93	2.45E+02	43.61			2.45E+02	4.36E+01
m	6	65.93	1.30E+02	40.47			1.30E+02	4.05E+01
m	7	70.28	2.13E+01	30.17			2.13E+01	3.02E+01
	8	81.12	8.28E+02	70.13			8.28E+02	7.01E+01
M	9	111.81	2.05E+02	37.74			2.05E+02	3.77E+01
m	10	116.48	4.57E+01	27.64			4.57E+01	2.76E+01
	11	276.86	7.71E+01	23.71			7.71E+01	2.37E+01
	12	294.27	2.45E+01	18.44			2.45E+01	1.84E+01
M	13	302.92	1.17E+02	24.73			1.17E+02	2.47E+01
m	14	307.53	2.94E+01	20.54			2.94E+01	2.05E+01
M	15	333.74	1.03E+02	22.41			1.03E+02	2.24E+01
m	16	337.94	2.55E+01	15.56	4.94E-01	8.91E-01	2.50E+01	1.56E+01
	17	356.10	3.94E+02	47.69			3.94E+02	4.77E+01
	18	365.31	1.66E+01	17.32			1.66E+01	1.73E+01
M	19	384.18	9.78E+01	35.37			9.78E+01	3.54E+01
m	20	387.07	1.92E+02	35.17			1.92E+02	3.52E+01
m	21	391.35	6.13E+01	24.22			6.13E+01	2.42E+01
M	22	415.35	3.04E+01	16.77			3.04E+01	1.68E+01
m	23	418.57	2.51E+01	18.36			2.51E+01	1.84E+01
	24	437.04	8.80E+01	23.62			8.80E+01	2.36E+01
	25	470.41	2.52E+01	20.59			2.52E+01	2.06E+01
	26	489.22	9.00E+00	6.00			9.00E+00	6.00E+00
	27	510.47	2.60E+01	10.20	1.51E+01	1.26E+00	1.09E+01	1.03E+01
	28	608.86	1.00E+01	6.32	2.19E+00	9.73E-01	7.81E+00	6.40E+00
	29	647.22	7.00E+00	5.29			7.00E+00	5.29E+00
	30	695.36	7.17E+00	7.21			7.17E+00	7.21E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/units)	Activity Uncertainty
SN-113	0.94	255.12		1.93		
		391.69	*	61.90	4.68E+01	1.89E+01
I-125	0.97	35.49	*	6.49	1.45E+01	2.02E+00
BA-133	0.99	30.80	*	97.60	1.63E+00	1.24E-01
		81.00	*	33.00	4.34E+02	7.70E+01
		302.84	*	17.80	5.10E+02	2.18E+02
		356.01	*	60.00	3.84E+02	7.19E+01
		383.85	*	8.70	5.56E+02	4.35E+02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/units)	Wt mean Activity Uncertainty	Comments
SN-113	0.947	4.68E+01	1.89E+01	
I-125	0.975	1.45E+01	2.02E+00	
BA-133	0.998	1.63E+00	1.24E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/16/2015 6:20:57AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	20.67	1.21321E-01	19.43		
	4	52.22	5.20704E-02	47.32		
M	5	61.93	2.71801E-01	8.91	Sum	
m	6	65.93	1.44100E-01	15.60	Sum	
m	7	70.28	2.37190E-02	70.66	Sum	
M	9	111.81	2.27329E-01	9.22	Sum	
m	10	116.48	5.08173E-02	30.22	Sum	
	11	276.86	8.56257E-02	15.38		
	12	294.27	2.72593E-02	37.58		
m	14	307.53	3.26380E-02	34.97		
M	15	333.74	1.14809E-01	10.84	Sum	
m	16	337.94	2.77975E-02	31.14	Sum	
	18	365.31	1.84444E-02	52.17		
m	20	387.07	2.13641E-01	9.14	Sum	
M	22	415.35	3.37673E-02	27.59	Sum	
m	23	418.57	2.78905E-02	36.58	Sum	
	24	437.04	9.77991E-02	13.42	Sum	
	25	470.41	2.79894E-02	40.87		
	26	489.22	1.00000E-02	33.33		
	27	510.47	1.20602E-02	47.33		
	28	608.86	8.67573E-03	40.98		
	29	647.22	7.77778E-03	37.80		
	30	695.36	7.96296E-03	50.31		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/units)	Nuclide MDA (pCi/units)	Activity (pCi/units)	Dec. Level (pCi/units)
	FE-55	5.89		24.50	1.53E-10	1.53E-10	0.00E+00	0.00E+00
	CO-57	122.06		85.51	2.63E+01	2.63E+01	9.68E+00	1.22E+01
		136.48		10.60	2.50E+02		-6.85E+01	1.16E+02
	NI-59	6.92		29.80	4.58E-09	4.58E-09	-1.57E-08	1.71E-09
	MO-93	16.59		52.90	2.89E-04	2.89E-04	-3.52E-04	1.36E-04
		18.60		10.00	6.19E-03		2.94E-03	2.96E-03
	NB-93M	16.57		9.43	1.60E-03	1.60E-03	-1.95E-03	7.53E-04
	CD-109	88.03		3.72	2.50E+02	2.50E+02	8.04E+00	1.17E+02
+	SN-113	255.12		1.93	1.47E+03	3.63E+01	1.95E+01	6.71E+02
		391.69	*	61.90	3.63E+01		4.68E+01	1.71E+01
	SN-119M	23.87		16.10	3.31E-02	3.31E-02	-3.99E-02	1.57E-02
		25.10		22.70	3.44E-02		-4.13E-02	1.63E-02
+	I-125	35.49	*	6.49	4.70E+00	4.70E+00	1.45E+01	2.31E+00
	I-129	29.78		57.00	2.22E-01	2.22E-01	2.04E+00	1.10E-01
		33.60		13.20	1.60E+00		-1.39E+01	7.84E-01
		39.58		7.52	2.35E+00		-1.27E-01	1.10E+00
+	BA-133	30.80	*	97.60	1.22E-01	1.22E-01	1.63E+00	5.98E-02
		81.00	*	33.00	3.60E+01		4.34E+02	1.73E+01
		302.84	*	17.80	2.22E+02		5.10E+02	1.05E+02
		356.01	*	60.00	4.50E+01		3.84E+02	2.12E+01
		383.85	*	8.70	2.81E+02		5.56E+02	1.33E+02
	CE-139	165.85		80.35	4.14E+01	4.14E+01	-7.74E+00	1.92E+01
	CE-144	133.54		10.80	2.44E+02	2.44E+02	6.80E+01	1.13E+02
	HG-203	279.19		77.30	5.15E+01	5.15E+01	6.59E+01	2.43E+01
	PB-210	10.80		9.57	1.79E-05	1.79E-05	2.16E-05	8.46E-06
		46.50		4.25	1.28E+01		4.19E+00	6.03E+00
	PA-231	9.28		42.00	6.14E-07	6.14E-07	6.88E-07	2.89E-07
		10.11		20.20	3.58E-06		4.02E-06	1.69E-06
		283.67		1.60	1.42E+03		1.59E+02	6.41E+02
		302.67		2.30	1.98E+03		1.93E+03	9.45E+02
	TH-231	25.64		14.70	6.86E-02	6.86E-02	-5.45E-02	3.27E-02
		84.21		6.40	2.87E+02		6.07E+02	1.40E+02
	PA-234	9.89		89.00	6.25E-07	6.25E-07	7.01E-07	2.95E-07
		21.72		64.90	4.19E-03		1.54E-03	2.01E-03
		37.93		23.75	1.08E+00		5.62E-01	5.21E-01
		131.42		20.40	1.17E+02		-7.53E+00	5.43E+01
	TH-234	63.29		3.80	1.45E+02	1.45E+02	7.44E+01	7.02E+01
	NP-237	29.37		14.00	8.13E-01	8.13E-01	7.49E+00	4.02E-01
		86.50		12.60	7.05E+01		3.72E+01	3.29E+01
	U-237	97.08		16.30	7.84E+01	5.66E+01	-4.60E+01	3.66E+01
		101.07		26.30	5.66E+01		3.69E+00	2.65E+01
		114.00		12.30	2.97E+02		4.37E+02	1.43E+02
		208.01		22.00	1.99E+02		-1.61E+01	9.31E+01
	AM-241	59.54		35.90	9.92E+00	9.92E+00	1.26E+01	4.79E+00
	AM-243	74.67		66.00	7.69E+00	7.69E+00	2.39E+00	3.59E+00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

+	=	Nuclide identified during the nuclide identification
*	=	Energy line found in the spectrum
>	=	MDA value not calculated
@	=	Half-life too short to be able to perform the decay correction

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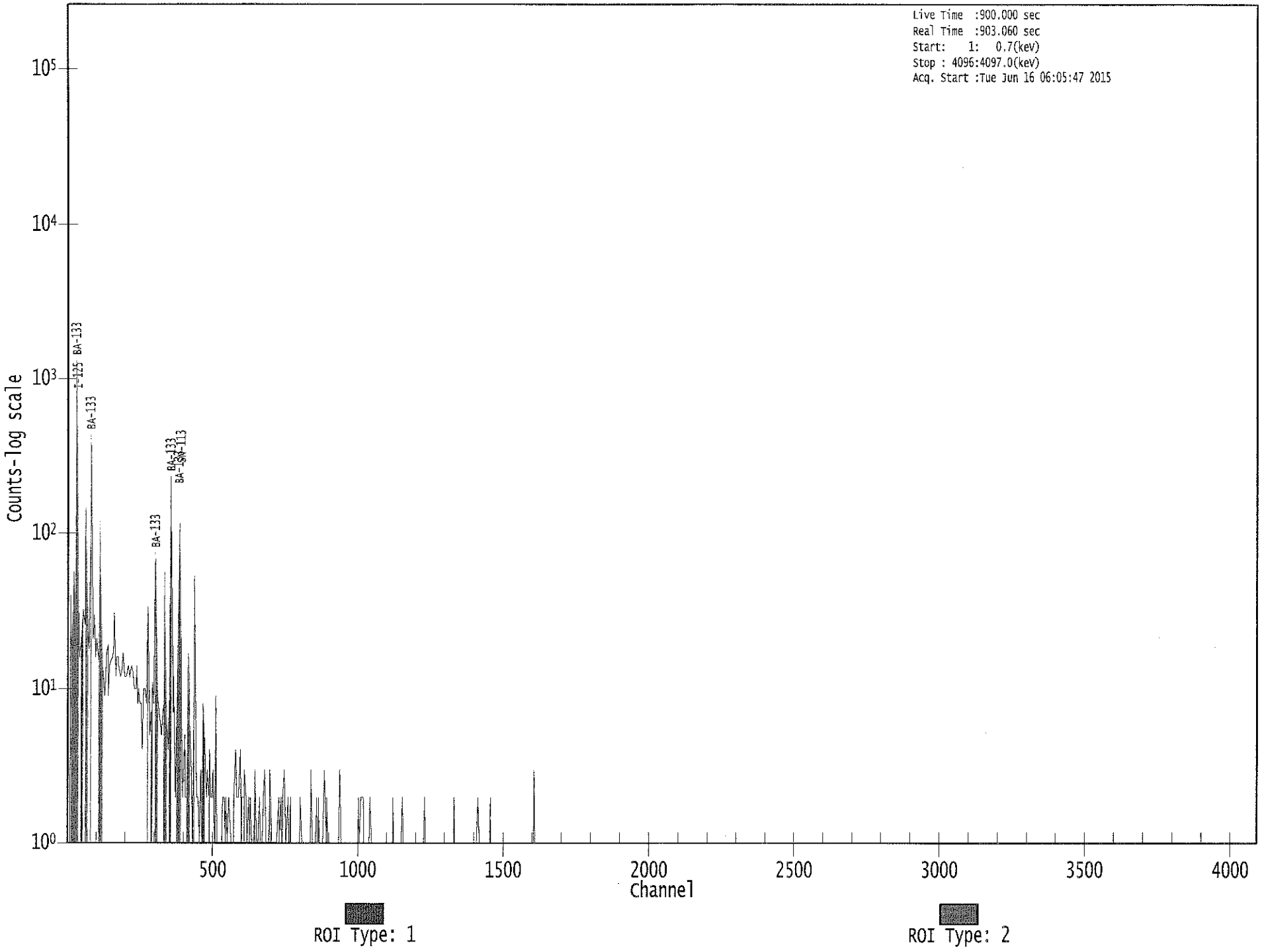


Apex-Gamma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-04
Sample Description	: FEEBRISID-09-088-089
Sample Type	: RA RECOVERY
Sample Size	: 1.000E+00 units
Facility	: Countroom
Sample Taken On	: 6/16/2015 5:30:44AM
Acquisition Started	: 6/16/2015 6:05:54AM
Procedure	: BAFIL
Operator	: Administrator
Detector Name	: GE4
Geometry	: BAFIL
Live Time	: 900.0 seconds
Real Time	: 900.3 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/9/2014
Efficiency Calibration Description	:
Sample Number	: 23469

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/16/2015 6:21:06AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	31.42	23 -	38	30.67	1.98E+03	108.41	3.79E+02	2.66
M	2	53.93	47 -	69	53.19	4.20E+01	42.54	1.77E+02	3.74
m	3	61.90	47 -	69	61.16	1.12E+02	47.72	2.21E+02	3.76
	4	80.87	75 -	87	80.14	6.46E+02	64.99	1.87E+02	2.62
	5	111.70	107 -	116	110.98	5.34E+01	43.21	2.39E+02	1.46
	6	196.49	192 -	199	195.81	2.52E+01	23.58	7.55E+01	3.10
	7	211.91	208 -	216	211.24	2.08E+01	22.80	6.65E+01	5.06
	8	275.91	270 -	278	275.27	3.09E+01	22.52	7.02E+01	1.65
	9	302.90	298 -	306	302.27	8.29E+01	28.78	7.62E+01	1.70
	10	332.75	327 -	337	332.12	1.77E+01	21.97	5.47E+01	2.06
	11	355.87	349 -	359	355.26	3.03E+02	36.53	1.57E+01	2.47
	12	385.96	378 -	395	385.36	1.27E+02	26.42	1.44E+01	6.21

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/16/2015 6:21:06AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023403.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	31.42	1.98E+03	108.41			1.98E+03	1.08E+02
M	2	53.93	4.20E+01	42.54			4.20E+01	4.25E+01
m	3	61.90	1.12E+02	47.72			1.12E+02	4.77E+01
	4	80.87	6.46E+02	64.99			6.46E+02	6.50E+01
	5	111.70	5.34E+01	43.21			5.34E+01	4.32E+01
	6	196.49	2.52E+01	23.58			2.52E+01	2.36E+01
	7	211.91	2.08E+01	22.80			2.08E+01	2.28E+01
	8	275.91	3.09E+01	22.52			3.09E+01	2.25E+01
	9	302.90	8.29E+01	28.78			8.29E+01	2.88E+01
	10	332.75	1.77E+01	21.97			1.77E+01	2.20E+01
	11	355.87	3.03E+02	36.53			3.03E+02	3.65E+01
	12	385.96	1.27E+02	26.42			1.27E+02	2.64E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/units)	Activity Uncertainty
BA-133	0.94	30.80	*	97.60	9.25E+01	7.83E+00
		81.00	*	33.00	4.77E+02	9.42E+01
		302.84	*	17.80	4.08E+02	1.94E+02
		356.01	*	60.00	4.76E+02	9.71E+01
		383.85		8.70		
PA-231	0.99	9.28		42.00		
		10.11		20.20		
		283.67		1.60		
		302.67	*	2.30	3.16E+03	1.47E+03

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/units)	Wt mean Activity Uncertainty	Comments
BA-133	0.949	9.63E+01	5.35E+00	
PA-231	0.998	2.41E+03	1.47E+03	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/16/2015 6:21:06AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	2	53.93	4.67097E-02	50.59		
m	3	61.90	1.24477E-01	21.30	Sum	
	5	111.70	5.93288E-02	40.46	Sum	
	6	196.49	2.80335E-02	46.73		
	7	211.91	2.30556E-02	54.94		
	8	275.91	3.43238E-02	36.44		
	10	332.75	1.96173E-02	62.21		
	12	385.96	1.40862E-01	10.42		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\WSRC.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/units)	Nuclide MDA (pCi/units)	Activity (pCi/units)	Dec. Level (pCi/units)
FE-55	5.89	24.50	5.43E-03	5.43E-03	0.00E+00	0.00E+00
CO-57	122.06	85.51	1.97E+01	1.97E+01	-3.62E+00	9.18E+00
	136.48	10.60	1.76E+02		4.45E+01	8.18E+01
NI-59	6.92	29.80	7.54E-03	7.54E-03	0.00E+00	0.00E+00
MO-93	16.59	52.90	1.06E+00	1.06E+00	1.60E+00	5.06E-01
	18.60	10.00	8.39E+00		9.27E+00	4.01E+00
NB-93M	16.57	9.43	5.95E+00	5.95E+00	8.93E+00	2.83E+00
CD-109	88.03	3.72	3.55E+02	3.55E+02	8.42E+01	1.68E+02
SN-113	255.12	1.93	1.07E+03	5.11E+01	-7.70E+02	4.80E+02

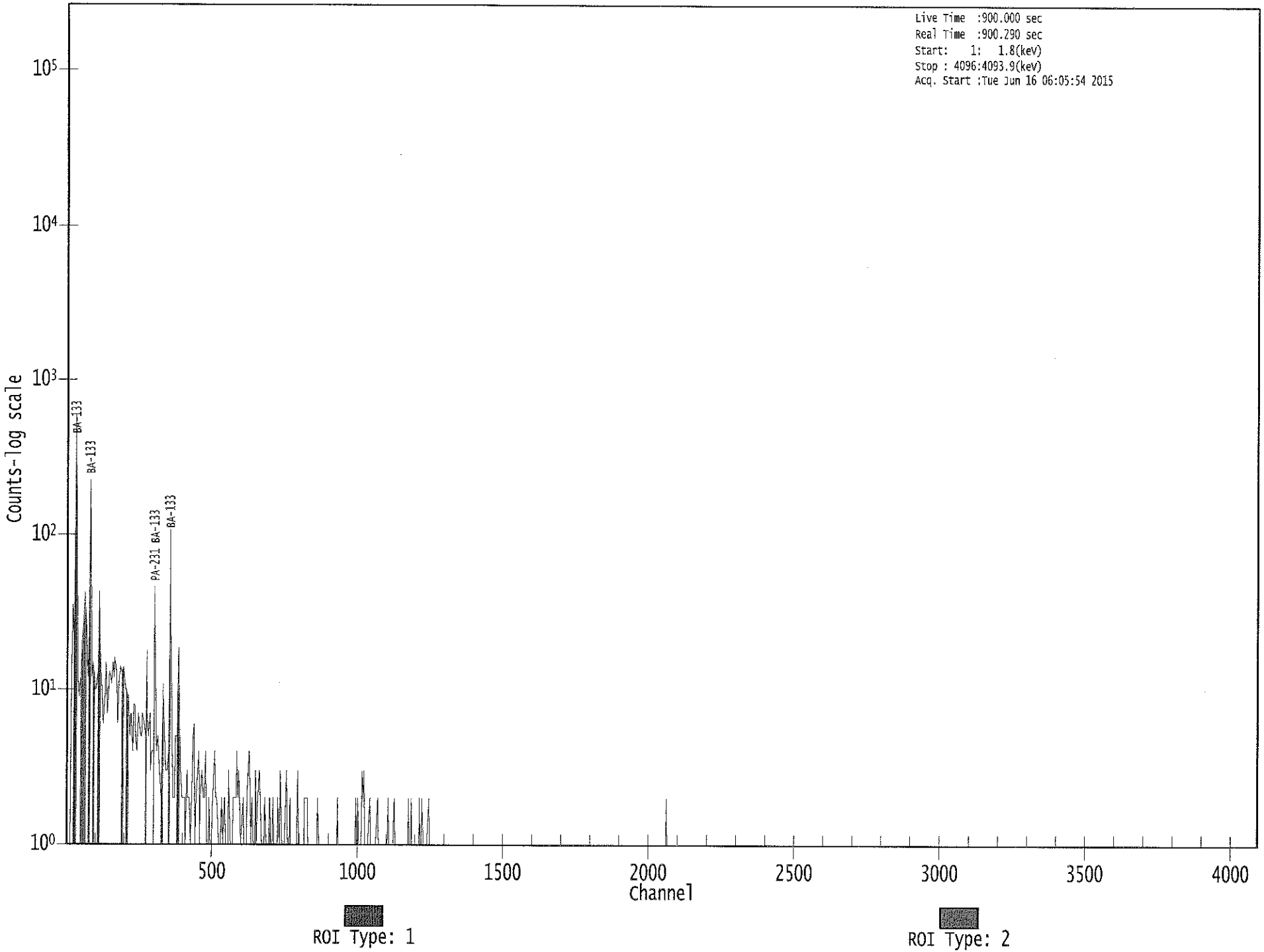
Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/units)	Nuclide MDA (pCi/units)	Activity (pCi/units)	Dec. Level (pCi/units)
	SN-113	391.69		61.90	5.11E+01	5.11E+01	4.72E+00	2.34E+01
	SN-119M	23.87		16.10	1.17E+01	1.09E+01	2.21E+00	5.67E+00
		25.10		22.70	1.09E+01		-1.70E-01	5.26E+00
	I-125	35.49		6.49	1.32E+02	1.32E+02	2.57E+02	6.50E+01
	I-129	29.78		57.00	1.43E+01	1.43E+01	9.37E+01	7.06E+00
		33.60		13.20	8.14E+01		6.68E+02	4.02E+01
		39.58		7.52	7.17E+01		-2.64E+01	3.45E+01
+	BA-133	30.80	*	97.60	4.88E+00	4.88E+00	9.25E+01	2.38E+00
		81.00	*	33.00	5.13E+01		4.77E+02	2.46E+01
		302.84	*	17.80	1.94E+02		4.08E+02	9.03E+01
		356.01	*	60.00	3.28E+01		4.76E+02	1.43E+01
		383.85		8.70	5.63E+02		8.33E+02	2.66E+02
	CE-139	165.85		80.35	3.31E+01	3.31E+01	-7.10E-01	1.56E+01
	CE-144	133.54		10.80	1.63E+02	1.63E+02	2.73E+01	7.59E+01
	HG-203	279.19		77.30	4.08E+01	4.08E+01	-8.26E+00	1.89E+01
	PB-210	10.80		9.57	9.03E-02	9.03E-02	0.00E+00	0.00E+00
		46.50		4.25	9.86E+01		-3.87E+00	4.62E+01
+	PA-231	9.28		42.00	1.32E-02	1.32E-02	0.00E+00	0.00E+00
		10.11		20.20	3.53E-02		0.00E+00	0.00E+00
		283.67		1.60	1.58E+03		-6.69E+02	7.18E+02
		302.67	*	2.30	1.50E+03		3.16E+03	6.99E+02
	TH-231	25.64		14.70	2.44E+01	2.44E+01	-2.99E+00	1.20E+01
		84.21		6.40	4.87E+02		2.09E+03	2.38E+02
	PA-234	9.89		89.00	7.52E-03	7.52E-03	0.00E+00	0.00E+00
		21.72		64.90	2.15E+00		1.42E+00	1.04E+00
		37.93		23.75	2.80E+01		-3.92E+00	1.36E+01
		131.42		20.40	8.43E+01		7.42E+00	3.92E+01
	TH-234	63.29		3.80	3.35E+02	3.35E+02	5.62E+02	1.61E+02
	NP-237	29.37		14.00	5.65E+01	5.65E+01	3.70E+02	2.79E+01
		86.50		12.60	1.23E+02		2.40E+00	5.86E+01
	U-237	97.08		16.30	8.35E+01	4.88E+01	-1.40E+01	3.91E+01
		101.07		26.30	4.88E+01		-3.71E+01	2.27E+01
		114.00		12.30	1.94E+02		2.94E+02	9.28E+01
		208.01		22.00	1.24E+02		2.74E+01	5.77E+01
	AM-241	59.54		35.90	3.01E+01	3.01E+01	6.72E+00	1.45E+01
	AM-243	74.67		66.00	2.02E+01	2.02E+01	-6.21E+00	9.68E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

0000023469.CNF



SECTION XIII

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

RUN 1

15-06043
Gamma
Run 1

Work Order	15-06043
Analysis Code	Gamma
Run	1
Date Received	6/12/2015
Lab Deadline	6/17/2015
Client	Auxier & Associates, Inc.
Project	FEE BRI
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/12/15 00:00	1.0000E+00
02	MBL	BLANK		06/12/15 00:00	1.0000E+00
03	DUP	FEEBRISID-09-088-089	100	06/11/15 08:55	3.3002E+02
04	DO	FEEBRISID-09-088-089	100	06/11/15 08:55	3.3002E+02

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
Gamma
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	06/12/15 09:47	KSALLINGS						

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.42E+02	8.23E+00	1.08E+00	1.37E+02	103.95	OK		06/12/15 00:00	1.00E+00	06/17/15 06:13	YES
01	CS-137	LCS	LCS	pCi/g	9.38E+01	8.30E+00	1.44E+00	8.69E+01	107.86	OK		06/12/15 00:00	1.00E+00	06/17/15 06:13	YES
02	AC-228	MBL	BLANK	pCi/g	4.84E-02	5.79E-02	1.15E-01					06/12/15 00:00	1.00E+00	06/17/15 06:13	NO
02	BI-214	MBL	BLANK	pCi/g	1.45E-02	4.30E-02	7.09E-02					06/12/15 00:00	1.00E+00	06/17/15 06:13	NO
02	PB-212	MBL	BLANK	pCi/g	1.92E-02	3.92E-02	5.54E-02					06/12/15 00:00	1.00E+00	06/17/15 06:13	NO
02	PB-214	MBL	BLANK	pCi/g	3.56E-02	2.63E-02	6.27E-02					06/12/15 00:00	1.00E+00	06/17/15 06:13	YES
02	RA-226	MBL	BLANK	pCi/g	1.45E-02	4.30E-02	7.09E-02					06/12/15 00:00	1.00E+00	06/17/15 06:13	NO
02	RA-228	MBL	BLANK	pCi/g	4.84E-02	5.79E-02	1.15E-01					06/12/15 00:00	1.00E+00	06/17/15 06:13	NO
02	TH-234	MBL	BLANK	pCi/g	2.73E-01	2.47E-01	4.39E-01					06/12/15 00:00	1.00E+00	06/17/15 06:13	NO
02	TL-208	MBL	BLANK	pCi/g	-1.38E-02	6.03E-02	9.04E-02					06/12/15 00:00	1.00E+00	06/17/15 06:13	NO
03	AC-228	DUP	FEEBRISID-09-088-089	pCi/g	2.25E-01	4.37E-01	6.81E-01				NA	06/11/15 08:55	3.30E+02	06/17/15 06:12	NO
03	BI-214	DUP	FEEBRISID-09-088-089	pCi/g	1.84E+01	1.12E+00	5.63E-01				NA	06/11/15 08:55	3.30E+02	06/17/15 06:12	YES
03	PB-212	DUP	FEEBRISID-09-088-089	pCi/g	6.39E-01	2.67E-01	6.95E-01					06/11/15 08:55	3.30E+02	06/17/15 06:12	YES
03	PB-214	DUP	FEEBRISID-09-088-089	pCi/g	2.22E+01	1.35E+00	6.75E-01				NA	06/11/15 08:55	3.30E+02	06/17/15 06:12	YES
03	RA-226	DUP	FEEBRISID-09-088-089	pCi/g	1.84E+01	1.12E+00	5.63E-01					06/11/15 08:55	3.30E+02	06/17/15 06:12	YES
03	RA-228	DUP	FEEBRISID-09-088-089	pCi/g	2.25E-01	4.37E-01	6.81E-01					06/11/15 08:55	3.30E+02	06/17/15 06:12	NO
03	TH-234	DUP	FEEBRISID-09-088-089	pCi/g	1.29E+01	4.16E+00	1.03E+01					06/11/15 08:55	3.30E+02	06/17/15 06:12	YES
03	TL-208	DUP	FEEBRISID-09-088-089	pCi/g	4.23E-01	1.62E-01	2.23E-01					06/11/15 08:55	3.30E+02	06/17/15 06:12	YES
04	AC-228	DO	FEEBRISID-09-088-089	pCi/g	9.56E-01	4.93E-01	9.04E-01					06/11/15 08:55	3.30E+02	06/17/15 07:13	YES
04	BI-214	DO	FEEBRISID-09-088-089	pCi/g	1.67E+01	1.17E+00	5.63E-01					06/11/15 08:55	3.30E+02	06/17/15 07:13	YES
04	PB-212	DO	FEEBRISID-09-088-089	pCi/g	5.11E-01	2.69E-01	7.59E-01					06/11/15 08:55	3.30E+02	06/17/15 07:13	YES
04	PB-214	DO	FEEBRISID-09-088-089	pCi/g	2.21E+01	1.35E+00	6.67E-01					06/11/15 08:55	3.30E+02	06/17/15 07:13	YES
04	RA-226	DO	FEEBRISID-09-088-089	pCi/g	1.67E+01	1.17E+00	5.63E-01					06/11/15 08:55	3.30E+02	06/17/15 07:13	YES
04	RA-228	DO	FEEBRISID-09-088-089	pCi/g	9.56E-01	4.93E-01	9.04E-01					06/11/15 08:55	3.30E+02	06/17/15 07:13	YES
04	TH-234	DO	FEEBRISID-09-088-089	pCi/g	1.61E+00	3.11E+00	5.97E+00					06/11/15 08:55	3.30E+02	06/17/15 07:13	NO
04	TL-208	DO	FEEBRISID-09-088-089	pCi/g	2.61E-01	1.40E-01	1.76E-01					06/11/15 08:55	3.30E+02	06/17/15 07:13	YES

GL-2368

Count Room Report
Client: Auxier Associates, Inc.

15-06043-Gamma-1 (pCi/g) in SO
Tracer ID:

1 hr

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/12/15 00:00	1.0000				0.00		
02	MBL	BLANK	06/12/15 00:00	1.0000				0.00		
03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	330.0200				0.00		
04	DO	FEEBRISID-09-088-089	06/11/15 08:55	330.0200				0.00		

GEL

: 00276

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 6/12/2015 10:52 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06043	1	Gamma	grams	6/17/2015	KSALLINGS

Lab Fraction	Auxier & Associates, Inc. Client ID	Sample Type	Muffle Data	Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
			Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRISID-09-088-089	DUP					3.3002E+02	3.3002E+02				
04	FEEBRISID-09-088-089	DO					3.3002E+02	3.3002E+02				

Comments	

J1588

Technician: Kenny Sallings Date: 6/12/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 6/15/2015 8:52 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06043	6/17/2015	6/14/2015	6/15/2015	6/16/2015	KSALLINGS

Eberline Fraction	Auxier & Associates, Inc. Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRISID-09-088-089	31.9600	1331.0000	1186.0000	1299.0400	1154.0400	11.16%	88.84%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

Technician: Kay Sall

Date: **Analysis: Rough Prep Logbook**

Analysis: Gamma Page No. 9308

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.926E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00279

Apex-Gamma

Analysis Report for 1506043-01
GAS 1302

6/17

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-01
Sample Description	: GAS 1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 3:21:22PM
Acquisition Started	: 6/17/2015 6:13:10AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1853.5 seconds
Dead Time	: 2.89 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23538

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
6/17/15

Analysis Report for 1506043-01

GAS 1302

PEAK LOCATE REPORT

Peak Locate Performed on : 6/17/2015 6:44:07AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	21.84	22.09	0.0000	0.00
2	24.78	25.02	0.0000	0.00
3	32.08	32.32	0.0000	0.00
4	50.25	50.48	0.0000	0.00
5	59.32	59.54	0.0000	0.00
6	68.14	68.36	0.0000	0.00
7	87.84	88.05	0.0000	0.00
8	117.97	118.16	0.0000	0.00
9	121.94	122.13	0.0000	0.00
10	136.30	136.49	0.0000	0.00
11	162.99	163.16	0.0000	0.00
12	165.77	165.94	0.0000	0.00
13	187.38	187.54	0.0000	0.00
14	198.70	198.85	0.0000	0.00
15	311.51	311.60	0.0000	0.00
16	391.75	391.80	0.0000	0.00
17	480.15	480.16	0.0000	0.00
18	661.48	661.40	0.0000	0.00
19	825.46	825.31	0.0000	0.00
20	897.81	897.62	0.0000	0.00
21	962.60	962.38	0.0000	0.00
22	1034.17	1033.93	0.0000	0.00
23	1172.99	1172.68	0.0000	0.00
24	1207.20	1206.88	0.0000	0.00
25	1258.12	1257.78	0.0000	0.00
26	1332.22	1331.85	0.0000	0.00
27	1459.64	1459.22	0.0000	0.00
28	1468.15	1467.72	0.0000	0.00
29	1510.20	1509.76	0.0000	0.00
30	1549.15	1548.70	0.0000	0.00
31	1581.14	1580.67	0.0000	0.00
32	1604.57	1604.10	0.0000	0.00
33	1735.17	1734.65	0.0000	0.00
34	1743.39	1742.87	0.0000	0.00
35	1762.85	1762.32	0.0000	0.00
36	1835.63	1835.08	0.0000	0.00
37	1857.11	1856.55	0.0000	0.00
38	1869.90	1869.33	0.0000	0.00
39	1990.89	1990.28	0.0000	0.00
40	2030.07	2029.45	0.0000	0.00
41	2186.72	2186.06	0.0000	0.00
42	2323.53	2322.83	0.0000	0.00

Analysis Report for 1506043-01

GAS 1302

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	2383.54	2382.82	0.0000	0.00
44	2505.23	2504.48	0.0000	0.00
45	2614.32	2613.55	0.0000	0.00
46	2733.27	2732.46	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS 1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 6:44:07AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	21.84	19 -	29	22.09	1.38E+05	817.60	1.74E+04	1.54
m	2	24.78	19 -	29	25.02	4.58E+04	847.34	1.31E+04	1.70
	3	32.08	30 -	35	32.32	2.05E+03	277.51	1.39E+04	1.85
M	4	50.25	45 -	62	50.48	6.44E+03	437.15	2.60E+04	1.94
m	5	59.32	45 -	62	59.54	9.19E+04	688.86	2.08E+04	1.64
	6	68.14	66 -	72	68.36	1.21E+03	431.74	3.31E+04	3.42
	7	87.84	83 -	92	88.05	4.96E+04	684.24	3.80E+04	1.43
M	8	117.97	117 -	126	118.16	1.75E+02	153.36	6.72E+03	1.73
m	9	121.94	117 -	126	122.13	1.21E+04	310.28	1.05E+04	1.51
	10	136.30	133 -	140	136.49	1.41E+03	310.92	1.51E+04	2.02
M	11	162.99	162 -	168	163.16	1.48E+02	63.39	1.61E+03	1.80
m	12	165.77	162 -	168	165.94	2.41E+03	214.89	8.18E+03	1.58
	13	187.38	184 -	192	187.54	4.72E+02	313.97	1.49E+04	5.78
	14	198.70	197 -	201	198.85	1.69E+02	195.31	8.29E+03	1.89
	15	311.51	309 -	315	311.60	2.57E+02	202.91	7.28E+03	3.23
	16	391.75	388 -	395	391.80	7.77E+02	224.94	7.90E+03	1.91
	17	480.15	478 -	483	480.16	1.31E+02	158.42	4.86E+03	2.52
	18	661.48	655 -	666	661.40	2.39E+04	380.70	6.15E+03	2.05
	19	825.46	823 -	829	825.31	1.16E+02	141.03	3.52E+03	1.77
	20	897.81	894 -	902	897.62	6.60E+02	193.68	5.40E+03	2.13
	21	962.60	960 -	965	962.38	1.33E+02	138.20	3.67E+03	2.08
	22	1034.17	1032 -	1037	1033.93	1.04E+02	118.42	2.72E+03	2.82
	23	1172.99	1167 -	1178	1172.68	2.12E+04	329.53	2.94E+03	2.19
	24	1207.20	1205 -	1209	1206.88	4.97E+01	54.52	6.09E+02	2.76
	25	1258.12	1255 -	1261	1257.78	4.26E+01	49.94	4.21E+02	3.61
	26	1332.22	1326 -	1337	1331.85	1.90E+04	289.27	9.33E+02	2.19
	27	1459.64	1454 -	1463	1459.22	3.64E+01	39.24	1.97E+02	3.37
	28	1468.15	1464 -	1471	1467.72	3.70E+01	31.05	1.36E+02	4.76
	29	1510.20	1504 -	1515	1509.76	4.39E+01	40.74	1.84E+02	7.09
	30	1549.15	1547 -	1551	1548.70	1.71E+01	20.93	8.18E+01	1.81
	31	1581.14	1575 -	1587	1580.67	4.27E+01	42.80	1.97E+02	1.13
	32	1604.57	1600 -	1608	1604.10	2.81E+01	34.43	1.62E+02	1.12
M	33	1735.17	1731 -	1746	1734.65	2.86E+01	21.17	4.80E+01	3.36
m	34	1743.39	1731 -	1746	1742.87	1.36E+01	19.08	4.80E+01	3.36
	35	1762.85	1757 -	1766	1762.32	3.16E+01	25.51	7.47E+01	4.84
	36	1835.63	1829 -	1840	1835.08	3.75E+02	50.56	1.32E+02	2.16
	37	1857.11	1853 -	1859	1856.55	1.71E+01	17.87	4.58E+01	3.45
	38	1869.90	1866 -	1872	1869.33	2.50E+01	15.94	2.80E+01	4.45
	39	1990.89	1983 -	1998	1990.28	4.20E+01	38.05	1.28E+02	9.36
	40	2030.07	2026 -	2032	2029.45	1.94E+01	16.93	3.72E+01	3.06

Analysis Report for 1506043-01

GAS 1302

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	2186.72	2181 -	2192	2186.06	2.37E+01	24.00	6.05E+01	5.01
42	2323.53	2320 -	2325	2322.83	7.23E+00	9.85	1.15E+01	1.51
43	2383.54	2378 -	2386	2382.82	1.14E+01	11.52	1.32E+01	2.58
44	2505.23	2500 -	2508	2504.48	1.90E+02	28.08	4.46E+00	2.51
45	2614.32	2610 -	2616	2613.55	1.06E+01	8.97	6.86E+00	1.85
46	2733.27	2727 -	2737	2732.46	7.40E+00	8.38	5.20E+00	1.97

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 6:44:07AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	21.84	19 -	29	1.38E+05	817.60	1.74E+04	2.17E+02
m	2	24.78	19 -	29	4.58E+04	847.34	1.31E+04	1.88E+02
	3	32.08	30 -	35	2.05E+03	277.51	1.39E+04	2.16E+02
M	4	50.25	45 -	62	6.44E+03	437.15	2.60E+04	2.65E+02
m	5	59.32	45 -	62	9.19E+04	688.86	2.08E+04	2.37E+02
	6	68.14	66 -	72	1.21E+03	431.74	3.31E+04	3.50E+02
	7	87.84	83 -	92	4.96E+04	684.24	3.80E+04	4.27E+02
M	8	117.97	117 -	126	1.75E+02	153.36	6.72E+03	1.35E+02
m	9	121.94	117 -	126	1.21E+04	310.28	1.05E+04	1.68E+02
	10	136.30	133 -	140	1.41E+03	310.92	1.51E+04	2.48E+02
M	11	162.99	162 -	168	1.48E+02	63.39	1.61E+03	6.60E+01
m	12	165.77	162 -	168	2.41E+03	214.89	8.18E+03	1.49E+02
	13	187.38	184 -	192	4.72E+02	313.97	1.49E+04	2.56E+02
	14	198.70	197 -	201	1.69E+02	195.31	8.29E+03	1.59E+02
	15	311.51	309 -	315	2.57E+02	202.91	7.28E+03	1.65E+02
	16	391.75	388 -	395	7.77E+02	224.94	7.90E+03	1.79E+02
	17	480.15	478 -	483	1.31E+02	158.42	4.86E+03	1.29E+02
	18	661.48	655 -	666	2.39E+04	380.70	6.15E+03	1.82E+02
	19	825.46	823 -	829	1.16E+02	141.03	3.52E+03	1.15E+02
	20	897.81	894 -	902	6.60E+02	193.68	5.40E+03	1.54E+02
	21	962.60	960 -	965	1.33E+02	138.20	3.67E+03	1.12E+02

Analysis Report for 1506043-01

GAS 1302

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	22	1034.17	1032 -	1037	1.04E+02	118.42	2.72E+03	9.59E+01
	23	1172.99	1167 -	1178	2.12E+04	329.53	2.94E+03	1.26E+02
	24	1207.20	1205 -	1209	4.97E+01	54.52	6.09E+02	4.33E+01
	25	1258.12	1255 -	1261	4.26E+01	49.94	4.21E+02	3.96E+01
	26	1332.22	1326 -	1337	1.90E+04	289.27	9.33E+02	7.11E+01
	27	1459.64	1454 -	1463	3.64E+01	39.24	1.97E+02	3.07E+01
	28	1468.15	1464 -	1471	3.70E+01	31.05	1.36E+02	2.35E+01
	29	1510.20	1504 -	1515	4.39E+01	40.74	1.84E+02	3.17E+01
	30	1549.15	1547 -	1551	1.71E+01	20.93	8.18E+01	1.58E+01
	31	1581.14	1575 -	1587	4.27E+01	42.80	1.97E+02	3.35E+01
	32	1604.57	1600 -	1608	2.81E+01	34.43	1.62E+02	2.69E+01
M	33	1735.17	1731 -	1746	2.86E+01	21.17	4.80E+01	1.14E+01
m	34	1743.39	1731 -	1746	1.36E+01	19.08	4.80E+01	1.14E+01
	35	1762.85	1757 -	1766	3.16E+01	25.51	7.47E+01	1.88E+01
	36	1835.63	1829 -	1840	3.75E+02	50.56	1.32E+02	2.67E+01
	37	1857.11	1853 -	1859	1.71E+01	17.87	4.58E+01	1.30E+01
	38	1869.90	1866 -	1872	2.50E+01	15.94	2.80E+01	1.02E+01
	39	1990.89	1983 -	1998	4.20E+01	38.05	1.28E+02	2.94E+01
	40	2030.07	2026 -	2032	1.94E+01	16.93	3.72E+01	1.19E+01
	41	2186.72	2181 -	2192	2.37E+01	24.00	6.05E+01	1.80E+01
	42	2323.53	2320 -	2325	7.23E+00	9.85	1.15E+01	6.78E+00
	43	2383.54	2378 -	2386	1.14E+01	11.52	1.32E+01	7.68E+00
	44	2505.23	2500 -	2508	1.90E+02	28.08	4.46E+00	4.44E+00
	45	2614.32	2610 -	2616	1.06E+01	8.97	6.86E+00	5.08E+00
	46	2733.27	2727 -	2737	7.40E+00	8.38	5.20E+00	5.24E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 6/17/2015 6:44:07AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide

Analysis Report for 1506043-01

GAS 1302

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	21.84	19 -	29	22.09	1.38E+05	817.60	1.74E+04	.....
m	2	24.78	19 -	29	25.02	4.58E+04	847.34	1.31E+04	TH-231
	3	32.08	30 -	35	32.32	2.05E+03	277.51	1.39E+04	.....
M	4	50.25	45 -	62	50.48	6.44E+03	437.15	2.60E+04	TH-227
									TE-132
m	5	59.32	45 -	62	59.54	9.19E+04	688.86	2.08E+04	AM-241
	6	68.14	66 -	72	68.36	1.21E+03	431.74	3.31E+04	TI-44
									TA-182
									TH-230
	7	87.84	83 -	92	88.05	4.96E+04	684.24	3.80E+04	CD-109
									SN-126
									LU-176
M	8	117.97	117 -	126	118.16	1.75E+02	153.36	6.72E+03	.....
m	9	121.94	117 -	126	122.13	1.21E+04	310.28	1.05E+04	CO-57
									EU-152
									SE-75
	10	136.30	133 -	140	136.49	1.41E+03	310.92	1.51E+04	CO-57
									SE-75
M	11	162.99	162 -	168	163.16	1.48E+02	63.39	1.61E+03	BA-140
									U-235
									CS-136
m	12	165.77	162 -	168	165.94	2.41E+03	214.89	8.18E+03	CE-139
	13	187.38	184 -	192	187.54	4.72E+02	313.97	1.49E+04	.....
	14	198.70	197 -	201	198.85	1.69E+02	195.31	8.29E+03	.....
	15	311.51	309 -	315	311.60	2.57E+02	202.91	7.28E+03	PA-233
	16	391.75	388 -	395	391.80	7.77E+02	224.94	7.90E+03	SN-113
	17	480.15	478 -	483	480.16	1.31E+02	158.42	4.86E+03	.....
	18	661.48	655 -	666	661.40	2.39E+04	380.70	6.15E+03	CS-137
	19	825.46	823 -	829	825.31	1.16E+02	141.03	3.52E+03	.....
	20	897.81	894 -	902	897.62	6.60E+02	193.68	5.40E+03	Y-88
	21	962.60	960 -	965	962.38	1.33E+02	138.20	3.67E+03	.....
	22	1034.17	1032 -	1037	1033.93	1.04E+02	118.42	2.72E+03	.....
	23	1172.99	1167 -	1178	1172.68	2.12E+04	329.53	2.94E+03	CO-60
	24	1207.20	1205 -	1209	1206.88	4.97E+01	54.52	6.09E+02	.....
	25	1258.12	1255 -	1261	1257.78	4.26E+01	49.94	4.21E+02	.....
	26	1332.22	1326 -	1337	1331.85	1.90E+04	289.27	9.33E+02	CO-60
	27	1459.64	1454 -	1463	1459.22	3.64E+01	39.24	1.97E+02	.....
	28	1468.15	1464 -	1471	1467.72	3.70E+01	31.05	1.36E+02	.....
	29	1510.20	1504 -	1515	1509.76	4.39E+01	40.74	1.84E+02	.....
	30	1549.15	1547 -	1551	1548.70	1.71E+01	20.93	8.18E+01	.....
	31	1581.14	1575 -	1587	1580.67	4.27E+01	42.80	1.97E+02	.....
	32	1604.57	1600 -	1608	1604.10	2.81E+01	34.43	1.62E+02	.....
M	33	1735.17	1731 -	1746	1734.65	2.86E+01	21.17	4.80E+01	.....
m	34	1743.39	1731 -	1746	1742.87	1.36E+01	19.08	4.80E+01	.....
	35	1762.85	1757 -	1766	1762.32	3.16E+01	25.51	7.47E+01	.....
	36	1835.63	1829 -	1840	1835.08	3.75E+02	50.56	1.32E+02	Y-88
	37	1857.11	1853 -	1859	1856.55	1.71E+01	17.87	4.58E+01	.....
	38	1869.90	1866 -	1872	1869.33	2.50E+01	15.94	2.80E+01	.....
	39	1990.89	1983 -	1998	1990.28	4.20E+01	38.05	1.28E+02	.....
	40	2030.07	2026 -	2032	2029.45	1.94E+01	16.93	3.72E+01	.....
	41	2186.72	2181 -	2192	2186.06	2.37E+01	24.00	6.05E+01	.....
	42	2323.53	2320 -	2325	2322.83	7.23E+00	9.85	1.15E+01	.....
	43	2383.54	2378 -	2386	2382.82	1.14E+01	11.52	1.32E+01	.....
	44	2505.23	2500 -	2508	2504.48	1.90E+02	28.08	4.46E+00	.....

Analysis Report for 1506043-01

GAS 1302

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
45	2614.32	2610 -	2616	2613.55	1.06E+01	8.97	6.86E+00	TL-208
46	2733.27	2727 -	2737	2732.46	7.40E+00	8.38	5.20E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 6/17/2015 6:44:07AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	21.84	1.38E+05	817.60	1.11E-03	1.58E-03
m	2	24.78	4.58E+04	847.34	2.16E-03	1.58E-03
	3	32.08	2.05E+03	277.51	6.09E-03	1.58E-03
M	4	50.25	6.44E+03	437.15	1.69E-02	1.58E-03
m	5	59.32	9.19E+04	688.86	2.05E-02	1.58E-03
	6	68.14	1.21E+03	431.74	2.26E-02	1.87E-03
	7	87.84	4.96E+04	684.24	2.44E-02	2.52E-03
M	8	117.97	1.75E+02	153.36	2.33E-02	1.83E-03
m	9	121.94	1.21E+04	310.28	2.30E-02	1.74E-03
	10	136.30	1.41E+03	310.92	2.20E-02	1.66E-03
M	11	162.99	1.48E+02	63.39	1.99E-02	1.53E-03
m	12	165.77	2.41E+03	214.89	1.97E-02	1.51E-03
	13	187.38	4.72E+02	313.97	1.82E-02	1.41E-03
	14	198.70	1.69E+02	195.31	1.75E-02	1.36E-03
	15	311.51	2.57E+02	202.91	1.23E-02	9.51E-04
	16	391.75	7.77E+02	224.94	1.01E-02	8.37E-04
	17	480.15	1.31E+02	158.42	8.46E-03	7.49E-04
	18	661.48	2.39E+04	380.70	6.40E-03	5.68E-04
	19	825.46	1.16E+02	141.03	5.28E-03	4.34E-04
	20	897.81	6.60E+02	193.68	4.91E-03	3.75E-04
	21	962.60	1.33E+02	138.20	4.63E-03	3.63E-04
	22	1034.17	1.04E+02	118.42	4.36E-03	3.49E-04
	23	1172.99	2.12E+04	329.53	3.93E-03	3.24E-04
	24	1207.20	4.97E+01	54.52	3.83E-03	3.16E-04
	25	1258.12	4.26E+01	49.94	3.71E-03	3.05E-04
	26	1332.22	1.90E+04	289.27	3.54E-03	2.89E-04
	27	1459.64	3.64E+01	39.24	3.29E-03	2.70E-04
	28	1468.15	3.70E+01	31.05	3.28E-03	2.68E-04

Analysis Report for 1506043-01

GAS 1302

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	29	1510.20	4.39E+01	40.74	3.21E-03	2.62E-04
	30	1549.15	1.71E+01	20.93	3.15E-03	2.56E-04
	31	1581.14	4.27E+01	42.80	3.10E-03	2.51E-04
	32	1604.57	2.81E+01	34.43	3.06E-03	2.48E-04
M	33	1735.17	2.86E+01	21.17	2.89E-03	2.28E-04
m	34	1743.39	1.36E+01	19.08	2.88E-03	2.27E-04
	35	1762.85	3.16E+01	25.51	2.86E-03	2.24E-04
	36	1835.63	3.75E+02	50.56	2.78E-03	2.13E-04
	37	1857.11	1.71E+01	17.87	2.76E-03	2.13E-04
	38	1869.90	2.50E+01	15.94	2.74E-03	2.13E-04
	39	1990.89	4.20E+01	38.05	2.63E-03	2.13E-04
	40	2030.07	1.94E+01	16.93	2.59E-03	2.13E-04
	41	2186.72	2.37E+01	24.00	2.48E-03	2.13E-04
	42	2323.53	7.23E+00	9.85	2.39E-03	2.13E-04
	43	2383.54	1.14E+01	11.52	2.35E-03	2.13E-04
	44	2505.23	1.90E+02	28.08	2.29E-03	2.13E-04
	45	2614.32	1.06E+01	8.97	2.24E-03	2.13E-04
	46	2733.27	7.40E+00	8.38	2.19E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/17/2015 6:44:07AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023402.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	21.84	1.38E+05	817.60	4.71E+00	6.76E+00	1.38E+05	8.18E+02
m	2	24.78	4.58E+04	847.34			4.58E+04	8.47E+02
	3	32.08	2.05E+03	277.51			2.05E+03	2.78E+02
M	4	50.25	6.44E+03	437.15			6.44E+03	4.37E+02
m	5	59.32	9.19E+04	688.86	4.99E+00	1.14E+00	9.18E+04	6.89E+02
	6	68.14	1.21E+03	431.74			1.21E+03	4.32E+02
	7	87.84	4.96E+04	684.24	6.07E+00	1.76E+00	4.96E+04	6.84E+02
M	8	117.97	1.75E+02	153.36			1.75E+02	1.53E+02
m	9	121.94	1.21E+04	310.28			1.21E+04	3.10E+02
	10	136.30	1.41E+03	310.92			1.41E+03	3.11E+02
M	11	162.99	1.48E+02	63.39			1.48E+02	6.34E+01
m	12	165.77	2.41E+03	214.89			2.41E+03	2.15E+02

Analysis Report for 1506043-01

GAS 1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	13	187.38	4.72E+02	313.97			4.72E+02	3.14E+02
	14	198.70	1.69E+02	195.31			1.69E+02	1.95E+02
	15	311.51	2.57E+02	202.91			2.57E+02	2.03E+02
	16	391.75	7.77E+02	224.94			7.77E+02	2.25E+02
	17	480.15	1.31E+02	158.42			1.31E+02	1.58E+02
	18	661.48	2.39E+04	380.70	3.02E+00	1.73E+00	2.39E+04	3.81E+02
	19	825.46	1.16E+02	141.03			1.16E+02	1.41E+02
	20	897.81	6.60E+02	193.68			6.60E+02	1.94E+02
	21	962.60	1.33E+02	138.20			1.33E+02	1.38E+02
	22	1034.17	1.04E+02	118.42			1.04E+02	1.18E+02
	23	1172.99	2.12E+04	329.53	1.33E+00	1.18E+00	2.12E+04	3.30E+02
	24	1207.20	4.97E+01	54.52			4.97E+01	5.45E+01
	25	1258.12	4.26E+01	49.94			4.26E+01	4.99E+01
	26	1332.22	1.90E+04	289.27	1.16E+00	9.90E-01	1.90E+04	2.89E+02
	27	1459.64	3.64E+01	39.24	1.67E+00	8.21E-01	3.47E+01	3.93E+01
	28	1468.15	3.70E+01	31.05			3.70E+01	3.10E+01
	29	1510.20	4.39E+01	40.74			4.39E+01	4.07E+01
	30	1549.15	1.71E+01	20.93			1.71E+01	2.09E+01
	31	1581.14	4.27E+01	42.80			4.27E+01	4.28E+01
	32	1604.57	2.81E+01	34.43	3.02E-01	6.06E-01	2.78E+01	3.44E+01
M	33	1735.17	2.86E+01	21.17	9.03E-02	4.55E-01	2.85E+01	2.12E+01
m	34	1743.39	1.36E+01	19.08			1.36E+01	1.91E+01
	35	1762.85	3.16E+01	25.51			3.16E+01	2.55E+01
	36	1835.63	3.75E+02	50.56			3.75E+02	5.06E+01
	37	1857.11	1.71E+01	17.87			1.71E+01	1.79E+01
	38	1869.90	2.50E+01	15.94			2.50E+01	1.59E+01
	39	1990.89	4.20E+01	38.05			4.20E+01	3.81E+01
	40	2030.07	1.94E+01	16.93			1.94E+01	1.69E+01
	41	2186.72	2.37E+01	24.00			2.37E+01	2.40E+01
	42	2323.53	7.23E+00	9.85			7.23E+00	9.85E+00
	43	2383.54	1.14E+01	11.52			1.14E+01	1.15E+01
	44	2505.23	1.90E+02	28.08			1.90E+02	2.81E+01
	45	2614.32	1.06E+01	8.97	9.79E-01	6.05E-01	9.59E+00	8.99E+00
	46	2733.27	7.40E+00	8.38			7.40E+00	8.38E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS 1302

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 6/17/2015 6:44:07AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023402.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	21.84	1.38E+05	817.60	4.71E+00	6.76E+00	1.38E+05	8.18E+02
m	2	24.78	4.58E+04	847.34			4.58E+04	8.47E+02
	3	32.08	2.05E+03	277.51			2.05E+03	2.78E+02
M	4	50.25	6.44E+03	437.15			6.44E+03	4.37E+02
m	5	59.32	9.19E+04	688.86	4.99E+00	1.14E+00	9.18E+04	6.89E+02
	6	68.14	1.21E+03	431.74			1.21E+03	4.32E+02
	7	87.84	4.96E+04	684.24	6.07E+00	1.76E+00	4.96E+04	6.84E+02
M	8	117.97	1.75E+02	153.36			1.75E+02	1.53E+02
m	9	121.94	1.21E+04	310.28			1.21E+04	3.10E+02
	10	136.30	1.41E+03	310.92			1.41E+03	3.11E+02
M	11	162.99	1.48E+02	63.39			1.48E+02	6.34E+01
m	12	165.77	2.41E+03	214.89			2.41E+03	2.15E+02
	13	187.38	4.72E+02	313.97			4.72E+02	3.14E+02
	14	198.70	1.69E+02	195.31			1.69E+02	1.95E+02
	15	311.51	2.57E+02	202.91			2.57E+02	2.03E+02
	16	391.75	7.77E+02	224.94			7.77E+02	2.25E+02
	17	480.15	1.31E+02	158.42			1.31E+02	1.58E+02
	18	661.48	2.39E+04	380.70	3.02E+00	1.73E+00	2.39E+04	3.81E+02
	19	825.46	1.16E+02	141.03			1.16E+02	1.41E+02
	20	897.81	6.60E+02	193.68			6.60E+02	1.94E+02
	21	962.60	1.33E+02	138.20			1.33E+02	1.38E+02
	22	1034.17	1.04E+02	118.42			1.04E+02	1.18E+02
	23	1172.99	2.12E+04	329.53	1.33E+00	1.18E+00	2.12E+04	3.30E+02
	24	1207.20	4.97E+01	54.52			4.97E+01	5.45E+01
	25	1258.12	4.26E+01	49.94			4.26E+01	4.99E+01
	26	1332.22	1.90E+04	289.27	1.16E+00	9.90E-01	1.90E+04	2.89E+02
	27	1459.64	3.64E+01	39.24	1.67E+00	8.21E-01	3.47E+01	3.93E+01
	28	1468.15	3.70E+01	31.05			3.70E+01	3.10E+01
	29	1510.20	4.39E+01	40.74			4.39E+01	4.07E+01
	30	1549.15	1.71E+01	20.93			1.71E+01	2.09E+01
	31	1581.14	4.27E+01	42.80			4.27E+01	4.28E+01
	32	1604.57	2.81E+01	34.43	3.02E-01	6.06E-01	2.78E+01	3.44E+01
M	33	1735.17	2.86E+01	21.17	9.03E-02	4.55E-01	2.85E+01	2.12E+01
m	34	1743.39	1.36E+01	19.08			1.36E+01	1.91E+01
	35	1762.85	3.16E+01	25.51			3.16E+01	2.55E+01
	36	1835.63	3.75E+02	50.56			3.75E+02	5.06E+01
	37	1857.11	1.71E+01	17.87			1.71E+01	1.79E+01
	38	1869.90	2.50E+01	15.94			2.50E+01	1.59E+01
	39	1990.89	4.20E+01	38.05			4.20E+01	3.81E+01
	40	2030.07	1.94E+01	16.93			1.94E+01	1.69E+01
	41	2186.72	2.37E+01	24.00			2.37E+01	2.40E+01

Analysis Report for 1506043-01

GAS 1302

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
42	2323.53	7.23E+00	9.85			7.23E+00	9.85E+00
43	2383.54	1.14E+01	11.52			1.14E+01	1.15E+01
44	2505.23	1.90E+02	28.08			1.90E+02	2.81E+01
45	2614.32	1.06E+01	8.97	9.79E-01	6.05E-01	9.59E+00	8.99E+00
46	2733.27	7.40E+00	8.38			7.40E+00	8.38E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.963	122.06	*	85.51	7.80E+01	6.24E+00
		136.48	*	10.60	7.70E+01	1.82E+01
CO-60	0.990	1173.22	*	100.00	1.43E+02	1.20E+01
		1332.49	*	100.00	1.42E+02	1.18E+01
Y-88	0.786	898.02	*	93.40	3.08E+02	9.34E+01
		1836.01	*	99.38	2.91E+02	4.51E+01
CD-109	0.982	88.03	*	3.72	3.24E+03	3.89E+02
SN-113	0.778	255.12		1.93		
		391.69	*	64.90	1.80E+02	5.45E+01
SN-126	0.988	87.57	*	37.00	1.12E+02	1.17E+01
CS-137	0.996	661.65	*	85.12	9.38E+01	8.47E+00
CE-139	0.873	165.85	*	80.35	1.14E+02	1.34E+01
AM-241	0.992	59.54	*	35.90	2.56E+02	1.99E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS 1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 6:44:07AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	21.84	7.66724E+01	0.30		
m	2	24.78	2.54656E+01	0.92	Tol.	TH-231
	3	32.08	1.13887E+00	6.77		
M	4	50.25	3.58018E+00	3.39	Tol.	TE-132 TH-227
	6	68.14	6.74926E-01	17.77	Tol.	TA-182 TH-230
M	8	117.97	9.72869E-02	43.79	Sum	
M	11	162.99	8.24079E-02	21.37	Tol.	CS-136 BA-140 U-235
	13	187.38	2.62014E-01	33.29		
	14	198.70	9.37248E-02	57.88		
	15	311.51	1.42600E-01	39.53	Tol.	PA-233
	17	480.15	7.27110E-02	60.52	Sum	
	19	825.46	6.43238E-02	60.90		
	21	962.60	7.38098E-02	52.01		
	22	1034.17	5.79040E-02	56.81	Sum	
	24	1207.20	2.75942E-02	54.88		
	25	1258.12	2.36440E-02	58.67		
	27	1459.64	1.92685E-02	56.59		
	28	1468.15	2.05556E-02	41.96	Sum	
	29	1510.20	2.43668E-02	46.45		
	30	1549.15	9.48755E-03	61.29		
	31	1581.14	2.37214E-02	50.11		
	32	1604.57	1.54311E-02	61.98		
M	33	1735.17	1.58216E-02	37.17		
m	34	1743.39	7.55234E-03	70.17		
	35	1762.85	1.75725E-02	40.33		
	37	1857.11	9.48611E-03	52.32		
	38	1869.90	1.38889E-02	31.87		
	39	1990.89	2.33333E-02	45.30		
	40	2030.07	1.07895E-02	43.60		
	41	2186.72	1.31893E-02	50.55		
	42	2323.53	4.01709E-03	68.10		
	43	2383.54	6.32716E-03	50.58		
	44	2505.23	1.05427E-01	7.40	Sum	
	45	2614.32	5.32903E-03	46.87	Tol.	TL-208
	46	2733.27	4.11111E-03	56.63	Sum	

Analysis Report for 1506043-01

GAS 1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.96	122.06	*	85.51	7.80E+01	6.24E+00
		136.48	*	10.60	7.70E+01	1.82E+01
CO-60	0.99	1173.22	*	100.00	1.43E+02	1.20E+01
		1332.49	*	100.00	1.42E+02	1.18E+01
Y-88	0.78	898.02	*	93.40	3.08E+02	9.34E+01
		1836.01	*	99.38	2.91E+02	4.51E+01
CD-109	0.98	88.03	*	3.72	3.24E+03	3.89E+02
SN-113	0.77	255.12		1.93		
		391.69	*	64.90	1.80E+02	5.45E+01
SN-126	0.98	87.57	*	37.00	1.12E+02	1.17E+01
CS-137	0.99	661.65	*	85.12	9.38E+01	8.47E+00
CE-139	0.87	165.85	*	80.35	1.14E+02	1.34E+01
AM-241	0.99	59.54	*	35.90	2.56E+02	1.99E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1506043-01

GAS 1302

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.963	7.79E+01	5.91E+00	
	CO-60	0.990	1.42E+02	8.40E+00	
	Y-88	0.786	2.94E+02	4.06E+01	
?	CD-109	0.982	3.24E+03	3.89E+02	
	SN-113	0.778	1.80E+02	5.45E+01	
?	SN-126	0.988	1.12E+02	1.17E+01	
	CS-137	0.996	9.38E+01	8.47E+00	
	CE-139	0.873	1.14E+02	1.34E+01	
	AM-241	0.992	2.56E+02	1.99E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS 1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 6:44:07AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	21.84	7.66724E+01	0.30		
m	2	24.78	2.54656E+01	0.92	Tol.	TH-231
	3	32.08	1.13887E+00	6.77		
M	4	50.25	3.58018E+00	3.39	Tol.	TE-132 TH-227
	6	68.14	6.74926E-01	17.77	Tol.	TA-182 TH-230
M	8	117.97	9.72869E-02	43.79	Sum	
M	11	162.99	8.24079E-02	21.37	Tol.	CS-136 BA-140 U-235
	13	187.38	2.62014E-01	33.29		
	14	198.70	9.37248E-02	57.88		
	15	311.51	1.42600E-01	39.53	Tol.	PA-233
	17	480.15	7.27110E-02	60.52	Sum	
	19	825.46	6.43238E-02	60.90		
	21	962.60	7.38098E-02	52.01		
	22	1034.17	5.79040E-02	56.81	Sum	
	24	1207.20	2.75942E-02	54.88		
	25	1258.12	2.36440E-02	58.67		
	27	1459.64	1.92685E-02	56.59		
	28	1468.15	2.05556E-02	41.96	Sum	
	29	1510.20	2.43668E-02	46.45		
	30	1549.15	9.48755E-03	61.29		
	31	1581.14	2.37214E-02	50.11		
	32	1604.57	1.54311E-02	61.98		
M	33	1735.17	1.58216E-02	37.17		
m	34	1743.39	7.55234E-03	70.17		
	35	1762.85	1.75725E-02	40.33		
	37	1857.11	9.48611E-03	52.32		
	38	1869.90	1.38889E-02	31.87		
	39	1990.89	2.33333E-02	45.30		
	40	2030.07	1.07895E-02	43.60		
	41	2186.72	1.31893E-02	50.55		

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GAS 1302

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
42	2323.53	4.01709E-03	68.10		
43	2383.54	6.32716E-03	50.58		
44	2505.23	1.05427E-01	7.40	Sum	
45	2614.32	5.32903E-03	46.87	Tol.	TL-208
46	2733.27	4.11111E-03	56.63	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-1.17E+04	6.49E+04	6.49E+04
+	NA-22	1274.54		99.94	5.70E-01	8.06E-01	8.06E-01
+	@ NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@	2754.09		99.86	0.00E+00		1.00E+26
+	AL-26	1808.65		99.76	-3.87E-02	2.59E-01	2.59E-01
+	K-40	1460.81		10.67	3.32E-01	3.11E+00	3.11E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	8.05E-01	4.65E-01	5.17E-01
		78.34		96.00	-4.16E-01		4.65E-01
+	SC-46	889.25		99.98	1.99E+02	3.15E+02	3.25E+02
		1120.51		99.99	-4.20E+01		3.15E+02
+	V-48	983.52		99.98	-5.11E+12	1.41E+13	2.77E+13
		1312.10		97.50	-5.19E+12		1.41E+13
+	CR-51	320.08		9.83	1.77E+08	2.98E+08	2.98E+08
+	MN-54	834.83		99.97	2.49E+00	3.90E+00	3.90E+00
+	CO-56	846.75		99.96	-6.33E+01	2.71E+02	4.33E+02
		1037.75		14.03	8.04E+01		3.50E+03
		1238.25		67.00	-5.66E+01		3.71E+02
		1771.40		15.51	-8.42E+01		9.49E+02
		2598.48		16.90	-2.92E+01		2.71E+02
+	CO-57	122.06	*	85.51	7.80E+01	3.80E+00	3.80E+00
		136.48	*	10.60	7.70E+01		2.73E+01
+	CO-58	810.76		99.40	5.37E+02	8.25E+02	8.25E+02
+	FE-59	1099.22		56.50	-1.56E+04	7.01E+04	1.14E+05

Analysis Report for 1506043-01

GAS 1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		FE-59	1291.56		43.20	2.55E+04	7.01E+04	7.01E+04
+		CO-60	1173.22	*	100.00	1.43E+02	1.08E+00	1.72E+00
			1332.49	*	100.00	1.42E+02		1.08E+00
+		ZN-65	1115.52		50.75	3.86E+00	1.39E+01	1.39E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	3.90E+03	3.63E+01	2.05E+02
			136.00		59.20	1.55E+02		3.63E+01
			264.65		59.80	-9.27E+00		4.83E+01
			279.53		25.20	-2.77E+01		1.15E+02
			400.65		11.40	3.01E+01		3.07E+02
+		RB-82	776.52		13.00	-7.29E+08	1.48E+09	1.48E+09
+		RB-83	520.41		46.00	2.23E+02	4.11E+02	4.11E+02
			529.64		30.30	6.14E+02		6.16E+02
			552.65		16.40	2.67E+02		1.12E+03
+		KR-85	513.99		0.43	-7.44E+00	1.55E+02	1.55E+02
+		SR-85	513.99		99.27	-6.02E+01	1.26E+03	1.26E+03
+		Y-88	898.02	*	93.40	3.08E+02	4.35E+01	1.45E+02
			1836.01	*	99.38	2.91E+02		4.35E+01
+		NB-93M	16.57		9.43	2.30E+03	7.22E+02	7.22E+02
+		NB-94	702.63		100.00	-1.18E-02	6.33E-01	6.33E-01
			871.10		100.00	-1.07E-01		8.31E-01
+		NB-95	765.79		99.81	-4.10E+05	9.72E+05	9.72E+05
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	1.85E+03	2.88E+03	3.52E+03
			756.72		55.30	3.61E+02		2.88E+03
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	1.31E+05	2.01E+05	2.01E+05
+		RU-106	621.84		9.80	-5.37E+00	2.41E+01	2.41E+01
+		AG-108M	433.93		89.90	-1.27E-01	6.83E-01	6.83E-01
			614.37		90.40	3.10E-01		6.94E-01
			722.95		90.50	5.76E-02		7.31E-01
+		CD-109	88.03	*	3.72	3.24E+03	5.61E+01	5.61E+01
+		AG-110M	657.75		93.14	1.22E+02	8.82E+00	1.42E+01
			677.61		10.53	2.64E+01		4.33E+01
			706.67		16.46	5.97E+00		2.87E+01
			763.93		21.98	7.46E+00		2.30E+01
			884.67		71.63	-2.11E+00		8.82E+00
			1384.27		23.94	3.05E+00		9.78E+00
+		CD-113M	263.70		0.02	2.66E+02	2.20E+03	2.20E+03
+		SN-113	255.12		1.93	8.72E+02	8.37E+01	1.80E+03
			391.69	*	64.90	1.80E+02		8.37E+01
+		TE123M	159.00		84.10	-8.26E+00	2.31E+01	2.31E+01
+		SB-124	602.71		97.87	1.49E+03	2.23E+03	2.37E+03

Analysis Report for 1506043-01

GAS 1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		SB-124	645.85		7.26	9.67E+03	2.23E+03	3.33E+04
			722.78		11.10	1.76E+03		2.23E+04
			1691.02		49.00	-4.21E+02		2.23E+03
+		I-125	35.49		6.49	6.12E+04	5.46E+04	5.46E+04
+		SB-125	176.33		6.89	-2.97E+00	3.34E+00	7.51E+00
			427.89		29.33	2.62E-01		3.34E+00
			463.38		10.35	-2.20E+00		1.02E+01
			600.56		17.80	-1.40E+00		5.50E+00
			635.90		11.32	7.47E+00		9.29E+00
+		SB-126	414.70		83.30	9.00E+16	1.46E+17	1.65E+17
			666.33		99.60	6.91E+15		2.07E+17
			695.00		99.60	-6.64E+16		1.46E+17
			720.50		53.80	-1.64E+17		2.82E+17
+		SN-126	87.57	*	37.00	1.12E+02	1.94E+00	1.94E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-2.54E+01	2.97E+00	2.97E+00
			33.60		13.20	2.19E+01		9.16E+00
			39.58		7.52	-3.71E+01		9.91E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26
+	@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@		228.16		88.00	1.00E+26		1.00E+26
+		BA-133	81.00		33.00	-1.61E+00	9.85E-01	1.52E+00
			302.84		17.80	2.44E-01		3.03E+00
			356.01		60.00	-1.28E-01		9.85E-01
+	@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+		CS-134	563.23		8.38	1.62E+00	1.21E+00	1.33E+01
			569.32		15.43	-2.03E+00		7.27E+00
			604.70		97.60	-3.14E-02		1.21E+00
			795.84		85.40	-6.66E-01		1.60E+00
			801.93		8.73	1.04E+01		1.62E+01
+		CS-135	268.24		16.00	-1.82E-01	2.89E+00	2.89E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	5.19E+15	1.81E+16	9.72E+16
			163.89		4.61	7.64E+17		1.91E+17
			176.55		13.56	-2.67E+16		5.45E+16
			273.65		12.66	-1.24E+15		8.52E+16
			340.57		48.50	2.17E+15		2.43E+16
			818.50		99.70	6.28E+15		1.81E+16
			1048.07		79.60	-2.16E+15		2.64E+16
			1235.34		19.70	4.45E+15		5.71E+16
+		CS-137	661.65	*	85.12	9.38E+01	1.44E+00	1.44E+00
+		LA-138	788.74		34.00	4.61E-02	5.15E-01	2.09E+00

Analysis Report for 1506043-01

GAS 1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		LA-138	1435.80		66.00	2.75E-01	5.15E-01	5.15E-01
+		CE-139	165.85	*	80.35	1.14E+02	1.86E+01	1.86E+01
+		BA-140	162.64		6.70	-2.19E+18	1.63E+17	3.42E+17
			304.84		4.50	-2.01E+17		7.39E+17
			423.70		3.20	4.65E+17		1.30E+18
			437.55		2.00	-9.94E+17		2.11E+18
			537.32		25.00	-1.19E+16		1.63E+17
+		LA-140	328.77		20.50	-8.58E+16	2.44E+16	1.66E+17
			487.03		45.50	2.30E+16		9.20E+16
			815.85		23.50	-2.16E+17		2.21E+17
			1596.49		95.49	-6.24E+15		2.44E+16
+		CE-141	145.44		48.40	3.50E+05	2.64E+06	2.64E+06
+	@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
	@		293.26		42.00	1.00E+26		1.00E+26
	@		664.55		5.20	1.00E+26		1.00E+26
+		CE-144	133.54		10.80	-1.30E+01	1.70E+01	1.70E+01
+		PM-144	476.78		42.00	-8.96E-01	2.44E+00	5.93E+00
			618.01		98.60	-1.52E+00		2.44E+00
			696.49		99.49	-4.61E-01		2.45E+00
+		PM-145	36.85		21.70	4.17E+00	2.26E+00	4.18E+00
			37.36		39.70	7.94E-01		2.26E+00
			42.30		15.10	-7.28E-01		5.31E+00
			72.40		2.31	6.58E-01		2.12E+01
+		PM-146	453.90		39.94	-6.75E-01	2.03E+00	2.03E+00
			735.90		14.01	-1.40E+00		6.05E+00
			747.13		13.10	-3.78E+00		6.42E+00
+		ND-147	91.11		28.90	-1.85E+20	7.60E+19	7.60E+19
			531.02		13.10	8.84E+19		1.88E+20
+	@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78		20.50	5.76E+01	2.44E+00	2.94E+00
			244.69		5.40	5.06E+00		9.54E+00
			344.27		19.13	9.50E-01		2.94E+00
			778.89		9.20	3.53E+00		8.64E+00
			964.01		10.40	-1.76E+00		1.03E+01
			1085.78		7.22	5.19E+00		1.41E+01
			1112.02		9.60	8.60E+00		1.10E+01
			1407.95		14.94	5.57E-01		2.44E+00
+		GD-153	97.43		31.30	-8.25E-02	7.43E+00	7.43E+00
			103.18		22.20	2.82E+00		1.06E+01
+		EU-154	123.07		40.50	3.09E+01	1.57E+00	1.57E+00
			723.30		19.70	3.06E-01		3.88E+00
			873.19		11.50	-3.50E+00		8.48E+00
			996.32		10.30	-7.51E-02		1.04E+01
			1004.76		17.90	-2.19E+00		5.80E+00
			1274.45		35.50	1.11E+00		1.57E+00
+		EU-155	86.50		30.90	1.71E+02	1.91E+00	4.03E+00
			105.30		20.70	-8.35E-01		1.91E+00
+		EU-156	811.77		10.40	-7.19E+13	8.27E+14	1.08E+15
			1153.47		7.20	3.90E+14		1.61E+15

Analysis Report for 1506043-01

GAS 1302

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		EU-156	1230.71	8.90	-2.56E+14	8.27E+14	8.27E+14
+		HO-166M	184.41	72.60	1.60E-01	4.73E-01	4.73E-01
			280.45	29.60	-6.16E-01		1.55E+00
			410.94	11.10	9.48E-01		5.20E+00
			711.69	54.10	-6.92E-02		1.21E+00
+		TM-171	66.72	0.14	1.07E+03	6.89E+02	6.89E+02
+		HF-172	81.75	4.52	-1.71E+01	5.51E+00	2.04E+01
			125.81	11.30	6.49E-01		5.51E+00
+	@	LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06	16.63	1.00E+26		1.00E+26
	@		912.12	15.25	1.00E+26		1.00E+26
	@		1093.66	62.50	1.00E+26		1.00E+26
+		LU-173	100.72	5.24	5.84E+00	5.86E+00	1.55E+01
			272.11	21.20	-3.16E-01		5.86E+00
+		HF-175	343.40	84.00	-3.03E+02	7.17E+02	7.17E+02
+		LU-176	88.34	13.30	3.01E+02	4.86E-01	6.95E+00
			201.83	86.00	-1.99E-01		4.86E-01
			306.78	94.00	-2.77E-02		5.11E-01
+		TA-182	67.75	41.20	1.38E+02	8.86E+01	8.86E+01
			1121.30	34.90	-2.91E+01		1.83E+02
			1189.05	16.23	-8.27E+00		2.95E+02
			1221.41	26.98	-2.02E+01		1.47E+02
			1231.02	11.44	-7.78E+01		3.24E+02
+		IR-192	308.46	29.68	1.60E+02	1.11E+03	1.34E+03
			468.07	48.10	4.03E+02		1.11E+03
+		HG-203	279.19	77.30	-2.37E+03	2.49E+04	2.49E+04
+		BI-207	569.67	97.72	1.17E-01	6.24E-01	6.24E-01
			1063.62	74.90	4.03E-01		1.25E+00
+		TL-208	583.14	30.22	1.08E+00	5.11E-01	2.01E+00
			860.37	4.48	3.08E+00		1.85E+01
			2614.66	35.85	0.00E+00		5.11E-01
+		BI-210M	262.00	45.00	-4.26E-02	1.02E+00	1.02E+00
			300.00	23.00	-4.19E-01		2.03E+00
+		PB-210	46.50	4.25	-9.71E+01	2.03E+01	2.03E+01
+		PB-211	404.84	2.90	-4.63E+00	1.94E+01	1.94E+01
			831.96	2.90	-4.30E-01		2.68E+01
+		BI-212	727.17	11.80	-7.95E-01	5.60E+00	5.60E+00
			1620.62	2.75	-4.02E-01		1.13E+01
+		PB-212	238.63	44.60	3.83E-01	1.05E+00	1.05E+00
			300.09	3.41	-2.82E+00		1.37E+01
+		BI-214	609.31	46.30	-1.00E+00	1.32E+00	1.32E+00
			1120.29	15.10	-7.49E-01		5.61E+00
			1764.49	15.80	-3.07E-01		1.83E+00
			2204.22	4.98	-7.23E-01		4.62E+00
+		PB-214	295.21	19.19	8.98E-01	1.39E+00	2.44E+00
			351.92	37.19	-4.53E-03		1.39E+00
+		RN-219	401.80	6.50	2.53E+00	8.62E+00	8.62E+00
+		RA-223	323.87	3.88	9.19E+00	1.27E+01	1.27E+01

Analysis Report for 1506043-01

GAS 1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-224	240.98		3.95	1.04E+01	1.19E+01	1.19E+01
+	RA-225	40.00		31.00	-3.16E+15	8.44E+14	8.44E+14
+	RA-226	186.21		3.28	1.04E+00	1.06E+01	1.06E+01
+	TH-227	50.10		8.40	4.97E+01	4.07E+00	1.04E+01
		236.00		11.50	1.92E+00		4.07E+00
		256.20		6.30	2.36E+00		7.39E+00
+	AC-228	338.32		11.40	-7.49E-01	3.32E+00	4.39E+00
		911.07		27.70	-1.69E+00		3.32E+00
		969.11		16.60	8.28E-01		5.54E+00
+	TH-230	48.44		16.90	1.83E+01	5.20E+00	5.20E+00
		62.85		4.60	-1.09E+01		1.16E+01
		67.67		0.37	2.01E+02		1.29E+02
+	PA-231	283.67		1.60	-1.30E+00	2.06E+01	2.89E+01
		302.67		2.30	1.66E+00		2.06E+01
+	TH-231	25.64		14.70	5.72E+02	7.15E+00	5.84E+01
		84.21		6.40	-6.67E+02		7.15E+00
+	PA-233	311.98		38.60	4.64E+07	1.21E+08	1.21E+08
+	PA-234	131.20		20.40	-3.86E-01	1.47E+00	1.47E+00
		733.99		8.80	4.64E+00		7.59E+00
		946.00		12.00	-4.44E+00		8.29E+00
+	PA-234M	1001.03		0.92	2.77E+01	9.94E+01	9.94E+01
+	TH-234	63.29		3.80	-1.32E+01	1.20E+01	1.20E+01
+	U-235	143.76		10.50	-1.02E-01	2.85E+00	2.85E+00
		163.35		4.70	3.19E+01		7.98E+00
		205.31		4.70	-8.00E+00		8.94E+00
+	NP-237	86.50		12.60	3.18E+02	7.51E+00	7.51E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	2.56E+02	3.91E+00	3.91E+00
+	AM-243	74.67		66.00	-3.20E-01	6.72E-01	6.72E-01
+	CM-243	209.75		3.29	-6.60E+00	3.44E+00	1.40E+01
		228.14		10.60	1.56E+00		4.58E+00
		277.60		14.00	6.50E-02		3.44E+00

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1506043-01

GAS 1302

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	6.49E+04	6.49E+04	-1.17E+04	3.21E+04
	NA-22	1274.54		99.94	8.06E-01	8.06E-01	5.70E-01	3.90E-01
@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09		99.86	1.00E+26		0.00E+00	1.00E+20
	AL-26	1808.65		99.76	2.59E-01	2.59E-01	-3.87E-02	1.20E-01
	K-40	1460.81		10.67	3.11E+00	3.11E+00	3.32E-01	1.47E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.17E-01	4.65E-01	8.05E-01	2.57E-01
		78.34		96.00	4.65E-01		-4.16E-01	2.31E-01
	SC-46	889.25		99.98	3.25E+02	3.15E+02	1.99E+02	1.60E+02
		1120.51		99.99	3.15E+02		-4.20E+01	1.55E+02
	V-48	983.52		99.98	2.77E+13	1.41E+13	-5.11E+12	1.37E+13
		1312.10		97.50	1.41E+13		-5.19E+12	6.81E+12
	CR-51	320.08		9.83	2.98E+08	2.98E+08	1.77E+08	1.48E+08
	MN-54	834.83		99.97	3.90E+00	3.90E+00	2.49E+00	1.92E+00
	CO-56	846.75		99.96	4.33E+02	2.71E+02	-6.33E+01	2.13E+02
		1037.75		14.03	3.50E+03		8.04E+01	1.73E+03
		1238.25		67.00	3.71E+02		-5.66E+01	1.79E+02
		1771.40		15.51	9.49E+02		-8.42E+01	4.41E+02
		2598.48		16.90	2.71E+02		-2.92E+01	9.61E+01
+	CO-57	122.06	*	85.51	3.80E+00	3.80E+00	7.80E+01	1.89E+00
		136.48	*	10.60	2.73E+01		7.70E+01	1.36E+01
	CO-58	810.76		99.40	8.25E+02	8.25E+02	5.37E+02	4.07E+02
	FE-59	1099.22		56.50	1.14E+05	7.01E+04	-1.56E+04	5.61E+04
		1291.56		43.20	7.01E+04		2.55E+04	3.39E+04
+	CO-60	1173.22	*	100.00	1.72E+00	1.08E+00	1.43E+02	8.50E-01
		1332.49	*	100.00	1.08E+00		1.42E+02	5.31E-01
	ZN-65	1115.52		50.75	1.39E+01	1.39E+01	3.86E+00	6.85E+00
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	2.05E+02	3.63E+01	3.90E+03	1.02E+02
		136.00		59.20	3.63E+01		1.55E+02	1.80E+01
		264.65		59.80	4.83E+01		-9.27E+00	2.39E+01
		279.53		25.20	1.15E+02		-2.77E+01	5.68E+01
		400.65		11.40	3.07E+02		3.01E+01	1.52E+02
	RB-82	776.52		13.00	1.48E+09	1.48E+09	-7.29E+08	7.31E+08
	RB-83	520.41		46.00	4.11E+02	4.11E+02	2.23E+02	2.03E+02
		529.64		30.30	6.16E+02		6.14E+02	3.04E+02
		552.65		16.40	1.12E+03		2.67E+02	5.52E+02
	KR-85	513.99		0.43	1.55E+02	1.55E+02	-7.44E+00	7.67E+01
	SR-85	513.99		99.27	1.26E+03	1.26E+03	-6.02E+01	6.20E+02

Analysis Report for 1506043-01

GAS 1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	Y-88	898.02	*	93.40	1.45E+02	4.35E+01	3.08E+02	7.16E+01
		1836.01	*	99.38	4.35E+01		2.91E+02	2.07E+01
	NB-93M	16.57		9.43	7.22E+02	7.22E+02	2.30E+03	3.59E+02
	NB-94	702.63		100.00	6.33E-01	6.33E-01	-1.18E-02	3.12E-01
		871.10		100.00	8.31E-01		-1.07E-01	4.10E-01
	NB-95	765.79		99.81	9.72E+05	9.72E+05	-4.10E+05	4.79E+05
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	3.52E+03	2.88E+03	1.85E+03	1.73E+03
		756.72		55.30	2.88E+03		3.61E+02	1.42E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	2.01E+05	2.01E+05	1.31E+05	9.92E+04
	RU-106	621.84		9.80	2.41E+01	2.41E+01	-5.37E+00	1.19E+01
	AG-108M	433.93		89.90	6.83E-01	6.83E-01	-1.27E-01	3.38E-01
		614.37		90.40	6.94E-01		3.10E-01	3.42E-01
		722.95		90.50	7.31E-01		5.76E-02	3.60E-01
+	CD-109	88.03	*	3.72	5.61E+01	5.61E+01	3.24E+03	2.80E+01
	AG-110M	657.75		93.14	1.42E+01	8.82E+00	1.22E+02	7.05E+00
		677.61		10.53	4.33E+01		2.64E+01	2.13E+01
		706.67		16.46	2.87E+01		5.97E+00	1.41E+01
		763.93		21.98	2.30E+01		7.46E+00	1.13E+01
		884.67		71.63	8.82E+00		-2.11E+00	4.35E+00
		1384.27		23.94	9.78E+00		3.05E+00	4.64E+00
	CD-113M	263.70		0.02	2.20E+03	2.20E+03	2.66E+02	1.09E+03
+	SN-113	255.12		1.93	1.80E+03	8.37E+01	8.72E+02	8.93E+02
		391.69	*	64.90	8.37E+01		1.80E+02	4.16E+01
	TE123M	159.00		84.10	2.31E+01	2.31E+01	-8.26E+00	1.14E+01
	SB-124	602.71		97.87	2.37E+03	2.23E+03	1.49E+03	1.17E+03
		645.85		7.26	3.33E+04		9.67E+03	1.65E+04
		722.78		11.10	2.23E+04		1.76E+03	1.10E+04
		1691.02		49.00	2.23E+03		-4.21E+02	1.04E+03
	I-125	35.49		6.49	5.46E+04	5.46E+04	6.12E+04	2.71E+04
	SB-125	176.33		6.89	7.51E+00	3.34E+00	-2.97E+00	3.72E+00
		427.89		29.33	3.34E+00		2.62E-01	1.65E+00
		463.38		10.35	1.02E+01		-2.20E+00	5.07E+00
		600.56		17.80	5.50E+00		-1.40E+00	2.71E+00
		635.90		11.32	9.29E+00		7.47E+00	4.58E+00
	SB-126	414.70		83.30	1.65E+17	1.46E+17	9.00E+16	8.17E+16
		666.33		99.60	2.07E+17		6.91E+15	1.02E+17
		695.00		99.60	1.46E+17		-6.64E+16	7.21E+16
		720.50		53.80	2.82E+17		-1.64E+17	1.39E+17
+	SN-126	87.57	*	37.00	1.94E+00	1.94E+00	1.12E+02	9.66E-01
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	2.97E+00	2.97E+00	-2.54E+01	1.47E+00
		33.60		13.20	9.16E+00		2.19E+01	4.55E+00
		39.58		7.52	9.91E+00		-3.71E+01	4.92E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20

Analysis Report for 1506043-01

GAS 1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	1.52E+00	9.85E-01	-1.61E+00	7.56E-01
		302.84		17.80	3.03E+00		2.44E-01	1.50E+00
		356.01		60.00	9.85E-01		-1.28E-01	4.88E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	1.33E+01	1.21E+00	1.62E+00	6.58E+00
		569.32		15.43	7.27E+00		-2.03E+00	3.59E+00
		604.70		97.60	1.21E+00		-3.14E-02	5.99E-01
		795.84		85.40	1.60E+00		-6.66E-01	7.88E-01
		801.93		8.73	1.62E+01		1.04E+01	7.97E+00
	CS-135	268.24		16.00	2.89E+00	2.89E+00	-1.82E-01	1.43E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	9.72E+16	1.81E+16	5.19E+15	4.82E+16
		163.89		4.61	1.91E+17		7.64E+17	9.48E+16
		176.55		13.56	5.45E+16		-2.67E+16	2.70E+16
		273.65		12.66	8.52E+16		-1.24E+15	4.22E+16
		340.57		48.50	2.43E+16		2.17E+15	1.20E+16
		818.50		99.70	1.81E+16		6.28E+15	8.94E+15
		1048.07		79.60	2.64E+16		-2.16E+15	1.30E+16
		1235.34		19.70	5.71E+16		4.45E+15	2.77E+16
+	CS-137	661.65	*	85.12	1.44E+00	1.44E+00	9.38E+01	7.15E-01
	LA-138	788.74		34.00	2.09E+00	5.15E-01	4.61E-02	1.03E+00
		1435.80		66.00	5.15E-01		2.75E-01	2.45E-01
+	CE-139	165.85	*	80.35	1.86E+01	1.86E+01	1.14E+02	9.23E+00
	BA-140	162.64		6.70	3.42E+17	1.63E+17	-2.19E+18	1.70E+17
		304.84		4.50	7.39E+17		-2.01E+17	3.66E+17
		423.70		3.20	1.30E+18		4.65E+17	6.42E+17
		437.55		2.00	2.11E+18		-9.94E+17	1.04E+18
		537.32		25.00	1.63E+17		-1.19E+16	8.07E+16
	LA-140	328.77		20.50	1.66E+17	2.44E+16	-8.58E+16	8.23E+16
		487.03		45.50	9.20E+16		2.30E+16	4.55E+16
		815.85		23.50	2.21E+17		-2.16E+17	1.09E+17
		1596.49		95.49	2.44E+16		-6.24E+15	1.15E+16
	CE-141	145.44		48.40	2.64E+06	2.64E+06	3.50E+05	1.31E+06
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	1.70E+01	1.70E+01	-1.30E+01	8.44E+00
	PM-144	476.78		42.00	5.93E+00	2.44E+00	-8.96E-01	2.94E+00
		618.01		98.60	2.44E+00		-1.52E+00	1.20E+00
		696.49		99.49	2.45E+00		-4.61E-01	1.21E+00
	PM-145	36.85		21.70	4.18E+00	2.26E+00	4.17E+00	2.08E+00
		37.36		39.70	2.26E+00		7.94E-01	1.12E+00
		42.30		15.10	5.31E+00		-7.28E-01	2.64E+00
		72.40		2.31	2.12E+01		6.58E-01	1.05E+01
	PM-146	453.90		39.94	2.03E+00	2.03E+00	-6.75E-01	1.01E+00
		735.90		14.01	6.05E+00		-1.40E+00	2.98E+00
		747.13		13.10	6.42E+00		-3.78E+00	3.17E+00
	ND-147	91.11		28.90	7.60E+19	7.60E+19	-1.85E+20	3.79E+19
		531.02		13.10	1.88E+20		8.84E+19	9.26E+19

Analysis Report for 1506043-01

GAS 1302

	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	PM-149	285.90	3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78	20.50	2.94E+00	2.44E+00	5.76E+01	1.46E+00
		244.69	5.40	9.54E+00		5.06E+00	4.73E+00
		344.27	19.13	2.94E+00		9.50E-01	1.46E+00
		778.89	9.20	8.64E+00		3.53E+00	4.26E+00
		964.01	10.40	1.03E+01		-1.76E+00	5.08E+00
		1085.78	7.22	1.41E+01		5.19E+00	6.95E+00
		1112.02	9.60	1.10E+01		8.60E+00	5.41E+00
		1407.95	14.94	2.44E+00		5.57E-01	1.16E+00
	GD-153	97.43	31.30	7.43E+00	7.43E+00	-8.25E-02	3.69E+00
		103.18	22.20	1.06E+01		2.82E+00	5.24E+00
	EU-154	123.07	40.50	1.57E+00	1.57E+00	3.09E+01	7.82E-01
		723.30	19.70	3.88E+00		3.06E-01	1.91E+00
		873.19	11.50	8.48E+00		-3.50E+00	4.18E+00
		996.32	10.30	1.04E+01		-7.51E-02	5.15E+00
		1004.76	17.90	5.80E+00		-2.19E+00	2.86E+00
		1274.45	35.50	1.57E+00		1.11E+00	7.61E-01
	EU-155	86.50	30.90	4.03E+00	1.91E+00	1.71E+02	2.01E+00
		105.30	20.70	1.91E+00		-8.35E-01	9.48E-01
	EU-156	811.77	10.40	1.08E+15	8.27E+14	-7.19E+13	5.34E+14
		1153.47	7.20	1.61E+15		3.90E+14	7.89E+14
		1230.71	8.90	8.27E+14		-2.56E+14	4.01E+14
	HO-166M	184.41	72.60	4.73E-01	4.73E-01	1.60E-01	2.35E-01
		280.45	29.60	1.55E+00		-6.16E-01	7.68E-01
		410.94	11.10	5.20E+00		9.48E-01	2.58E+00
		711.69	54.10	1.21E+00		-6.92E-02	5.96E-01
	TM-171	66.72	0.14	6.89E+02	6.89E+02	1.07E+03	3.43E+02
	HF-172	81.75	4.52	2.04E+01	5.51E+00	-1.71E+01	1.01E+01
		125.81	11.30	5.51E+00		6.49E-01	2.73E+00
@	LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		810.06	16.63	1.00E+26		1.00E+26	1.00E+20
@		912.12	15.25	1.00E+26		1.00E+26	1.00E+20
@		1093.66	62.50	1.00E+26		1.00E+26	1.00E+20
	LU-173	100.72	5.24	1.55E+01	5.86E+00	5.84E+00	7.68E+00
		272.11	21.20	5.86E+00		-3.16E-01	2.90E+00
	HF-175	343.40	84.00	7.17E+02	7.17E+02	-3.03E+02	3.55E+02
	LU-176	88.34	13.30	6.95E+00	4.86E-01	3.01E+02	3.46E+00
		201.83	86.00	4.86E-01		-1.99E-01	2.41E-01
		306.78	94.00	5.11E-01		-2.77E-02	2.53E-01
	TA-182	67.75	41.20	8.86E+01	8.86E+01	1.38E+02	4.41E+01
		1121.30	34.90	1.83E+02		-2.91E+01	9.02E+01
		1189.05	16.23	2.95E+02		-8.27E+00	1.44E+02
		1221.41	26.98	1.47E+02		-2.02E+01	7.15E+01
		1231.02	11.44	3.24E+02		-7.78E+01	1.57E+02
	IR-192	308.46	29.68	1.34E+03	1.11E+03	1.60E+02	6.64E+02
		468.07	48.10	1.11E+03		4.03E+02	5.52E+02
	HG-203	279.19	77.30	2.49E+04	2.49E+04	-2.37E+03	1.24E+04
	BI-207	569.67	97.72	6.24E-01	6.24E-01	1.17E-01	3.08E-01
		1063.62	74.90	1.25E+00		4.03E-01	6.14E-01
	TL-208	583.14	30.22	2.01E+00	5.11E-01	1.08E+00	9.94E-01
		860.37	4.48	1.85E+01		3.08E+00	9.12E+00
		2614.66	35.85	5.11E-01		0.00E+00	2.21E-01
	BI-210M	262.00	45.00	1.02E+00	1.02E+00	-4.26E-02	5.07E-01

Analysis Report for 1506043-01

GAS 1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-210M	300.00		23.00	2.03E+00	1.02E+00	-4.19E-01	1.01E+00
	PB-210	46.50		4.25	2.03E+01	2.03E+01	-9.71E+01	1.01E+01
	PB-211	404.84		2.90	1.94E+01	1.94E+01	-4.63E+00	9.59E+00
		831.96		2.90	2.68E+01		-4.30E-01	1.32E+01
	BI-212	727.17		11.80	5.60E+00	5.60E+00	-7.95E-01	2.76E+00
		1620.62		2.75	1.13E+01		-4.02E-01	5.32E+00
	PB-212	238.63		44.60	1.05E+00	1.05E+00	3.83E-01	5.22E-01
		300.09		3.41	1.37E+01		-2.82E+00	6.79E+00
	BI-214	609.31		46.30	1.32E+00	1.32E+00	-1.00E+00	6.51E-01
		1120.29		15.10	5.61E+00		-7.49E-01	2.76E+00
		1764.49		15.80	1.83E+00		-3.07E-01	8.55E-01
		2204.22		4.98	4.62E+00		-7.23E-01	2.09E+00
	PB-214	295.21		19.19	2.44E+00	1.39E+00	8.98E-01	1.21E+00
		351.92		37.19	1.39E+00		-4.53E-03	6.88E-01
	RN-219	401.80		6.50	8.62E+00	8.62E+00	2.53E+00	4.26E+00
	RA-223	323.87		3.88	1.27E+01	1.27E+01	9.19E+00	6.28E+00
	RA-224	240.98		3.95	1.19E+01	1.19E+01	1.04E+01	5.92E+00
	RA-225	40.00		31.00	8.44E+14	8.44E+14	-3.16E+15	4.19E+14
	RA-226	186.21		3.28	1.06E+01	1.06E+01	1.04E+00	5.25E+00
	TH-227	50.10		8.40	1.04E+01	4.07E+00	4.97E+01	5.18E+00
		236.00		11.50	4.07E+00		1.92E+00	2.02E+00
		256.20		6.30	7.39E+00		2.36E+00	3.66E+00
	AC-228	338.32		11.40	4.39E+00	3.32E+00	-7.49E-01	2.17E+00
		911.07		27.70	3.32E+00		-1.69E+00	1.64E+00
		969.11		16.60	5.54E+00		8.28E-01	2.73E+00
	TH-230	48.44		16.90	5.20E+00	5.20E+00	1.83E+01	2.59E+00
		62.85		4.60	1.16E+01		-1.09E+01	5.79E+00
		67.67		0.37	1.29E+02		2.01E+02	6.43E+01
	PA-231	283.67		1.60	2.89E+01	2.06E+01	-1.30E+00	1.43E+01
		302.67		2.30	2.06E+01		1.66E+00	1.02E+01
	TH-231	25.64		14.70	5.84E+01	7.15E+00	5.72E+02	2.91E+01
		84.21		6.40	7.15E+00		-6.67E+02	3.56E+00
	PA-233	311.98		38.60	1.21E+08	1.21E+08	4.64E+07	5.97E+07
	PA-234	131.20		20.40	1.47E+00	1.47E+00	-3.86E-01	7.29E-01
		733.99		8.80	7.59E+00		4.64E+00	3.74E+00
		946.00		12.00	8.29E+00		-4.44E+00	4.10E+00
	PA-234M	1001.03		0.92	9.94E+01	9.94E+01	2.77E+01	4.90E+01
	TH-234	63.29		3.80	1.20E+01	1.20E+01	-1.32E+01	5.97E+00
	U-235	143.76		10.50	2.85E+00	2.85E+00	-1.02E-01	1.41E+00
		163.35		4.70	7.98E+00		3.19E+01	3.96E+00
		205.31		4.70	8.94E+00		-8.00E+00	4.44E+00
	NP-237	86.50		12.60	7.51E+00	7.51E+00	3.18E+02	3.75E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.91E+00	3.91E+00	2.56E+02	1.95E+00
	AM-243	74.67		66.00	6.72E-01	6.72E-01	-3.20E-01	3.34E-01
	CM-243	209.75		3.29	1.40E+01	3.44E+00	-6.60E+00	6.94E+00
		228.14		10.60	4.58E+00		1.56E+00	2.27E+00
		277.60		14.00	3.44E+00		6.50E-02	1.71E+00

Analysis Report for 1506043-01

GAS 1302

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	***Comment***	***User***

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS 1302

Elapsed Live time: 1800
Elapsed Real Time: 1854

Channel								
1:	0	0	0	0	0	0	0	0
9:	456	2136	4273	8514	4407	2775	3193	2143
17:	2353	2721	1859	3791	21604	86775	33262	11189
25:	27555	10220	2164	1148	1095	1042	1325	2318
33:	1952	1276	1064	1366	1430	1317	1312	1378
41:	1511	1727	1986	2176	2209	2561	2912	3697
49:	4914	5359	4930	4962	4937	5057	5334	5504
57:	5859	7759	38665	46934	6238	1998	2051	2046
65:	2162	2399	2651	2598	2619	2524	2550	2425
73:	2429	2509	2322	2396	2362	2446	2413	2373
81:	2459	2526	2672	2706	2778	2906	8553	31929
89:	12644	1675	1388	1294	1268	1203	1120	1176
97:	1139	1137	1174	1146	1119	1183	1203	1168
105:	1108	1140	1104	1188	1195	1180	1200	1113
113:	1161	1176	1200	1134	1137	1226	1130	1206
121:	2614	8469	3996	1154	1006	987	985	1002
129:	1000	932	1004	968	1014	986	1010	1568
137:	1591	1043	886	866	953	895	872	895
145:	897	898	880	886	899	866	903	927
153:	900	840	888	906	878	851	856	835
161:	807	801	895	771	1398	2221	1282	782
169:	868	816	857	811	748	840	762	831
177:	762	734	802	854	777	769	831	781
185:	910	929	897	876	928	917	868	817
193:	874	856	814	868	857	904	903	821
201:	831	785	782	757	808	856	774	848
209:	846	878	824	871	896	902	906	900
217:	867	888	895	866	883	881	840	855
225:	844	890	849	840	754	784	861	779
233:	801	794	808	779	764	807	888	754
241:	752	825	796	723	743	721	751	728
249:	713	712	684	749	719	734	697	702
257:	663	707	678	681	643	632	674	649
265:	662	644	645	611	625	671	620	584
273:	673	568	612	605	638	637	543	577
281:	581	561	603	597	597	580	583	600
289:	618	557	576	587	561	536	579	578
297:	518	576	501	563	559	521	569	537
305:	528	580	593	516	549	571	584	593
313:	552	548	502	521	541	541	519	529
321:	531	531	582	511	523	528	508	464
329:	504	541	539	486	563	519	506	494
337:	516	515	517	471	545	517	477	510
345:	515	491	530	518	488	527	513	541
353:	542	478	465	527	465	533	511	498
361:	490	520	505	518	492	479	490	464

369:	480	477	494	457	501	492	470	492

Sample Title: GAS 1302

Channel								
377:	489	490	488	485	484	510	479	452
385:	476	471	513	494	496	505	795	871
393:	551	522	495	478	467	464	464	487
401:	480	473	454	482	484	446	478	483
409:	482	475	476	456	520	501	486	493
417:	456	496	457	459	478	487	495	464
425:	495	484	499	463	502	492	493	483
433:	501	508	478	479	480	507	484	442
441:	457	482	489	502	483	489	471	462
449:	503	491	496	486	476	501	526	497
457:	485	495	539	514	495	515	491	463
465:	534	477	496	503	487	518	515	522
473:	477	493	478	406	448	450	445	458
481:	426	408	375	377	409	380	392	392
489:	379	401	381	366	360	399	360	368
497:	395	363	358	379	352	336	344	347
505:	356	371	352	351	344	357	398	336
513:	337	359	330	330	334	339	353	336
521:	362	338	362	357	297	305	342	313
529:	329	325	339	309	326	319	259	333
537:	300	329	303	328	304	313	322	279
545:	292	322	291	319	277	288	283	289
553:	301	320	281	285	287	264	277	270
561:	285	279	298	285	283	259	283	278
569:	260	284	293	281	287	285	272	286
577:	266	288	291	281	288	261	309	289
585:	308	304	251	277	266	314	263	240
593:	250	261	257	274	265	240	254	283
601:	257	267	284	294	288	274	273	265
609:	276	294	235	282	298	293	261	280
617:	289	235	259	282	261	279	275	225
625:	282	293	268	267	247	268	243	245
633:	287	268	295	253	300	284	279	266
641:	267	256	232	263	271	304	267	256
649:	289	261	258	265	275	246	255	275
657:	291	281	362	2438	11038	9438	1723	347
665:	289	263	262	235	233	217	230	217
673:	245	230	244	240	234	252	229	246
681:	213	203	212	250	228	246	245	251
689:	220	221	243	224	259	206	210	228
697:	214	203	237	229	217	226	221	226
705:	233	238	227	240	260	228	245	226
713:	243	230	228	253	232	215	216	204
721:	215	240	243	230	246	241	243	237
729:	227	211	231	238	229	258	245	209
737:	234	235	200	224	251	236	224	241
745:	219	214	212	214	232	215	242	241
753:	225	249	237	236	240	240	223	226
761:	241	223	252	244	244	245	209	226
769:	235	249	270	255	229	253	245	228
777:	259	260	230	264	242	238	223	224
785:	213	265	222	244	211	229	240	232
793:	262	229	222	239	202	222	224	260

801:	225	249	258	231	241	212	252	238

Sample Title: GAS 1302

Channel								
809:	245	262	238	257	258	215	223	222
817:	266	288	239	289	292	291	231	289
825:	317	273	276	247	243	246	237	275
833:	261	277	257	274	266	273	271	243
841:	267	246	269	288	235	250	258	260
849:	272	262	270	271	284	248	248	260
857:	283	273	269	273	287	272	266	281
865:	282	254	265	250	307	270	267	284
873:	270	249	285	287	278	303	317	276
881:	299	275	307	256	281	277	322	285
889:	304	264	285	291	265	281	298	324
897:	519	602	410	300	319	306	337	272
905:	283	343	298	316	320	287	314	293
913:	319	303	311	340	311	317	306	324
921:	315	336	303	312	337	345	326	343
929:	332	317	316	358	333	316	348	329
937:	363	321	330	314	367	337	309	349
945:	349	329	352	334	349	346	373	359
953:	349	359	385	348	338	332	339	348
961:	332	352	347	298	290	271	284	284
969:	310	284	243	263	246	268	252	310
977:	287	273	271	286	263	271	249	249
985:	243	234	239	270	255	253	263	262
993:	258	277	260	264	256	269	270	244
1001:	290	247	256	237	223	266	241	235
1009:	233	256	222	244	238	236	228	261
1017:	225	265	238	227	267	245	246	267
1025:	259	266	267	238	251	238	217	236
1033:	264	256	251	223	235	219	258	255
1041:	227	252	237	230	235	218	221	257
1049:	243	215	228	231	235	227	224	232
1057:	218	225	229	230	224	230	231	226
1065:	183	245	215	199	232	250	210	244
1073:	238	233	240	240	225	233	219	232
1081:	200	230	222	223	230	207	218	259
1089:	243	213	231	220	227	249	235	232
1097:	246	242	238	241	231	267	243	256
1105:	227	229	244	238	227	268	225	249
1113:	239	216	229	196	195	227	181	202
1121:	161	178	137	167	171	178	144	154
1129:	155	158	140	152	133	165	123	145
1137:	144	134	126	132	142	140	151	129
1145:	135	135	151	142	126	144	130	145
1153:	128	161	143	129	118	153	142	129
1161:	141	131	126	113	122	135	124	119
1169:	142	220	1714	7344	9066	3100	462	171
1177:	129	129	104	94	98	101	85	112
1185:	85	91	83	87	102	99	84	84
1193:	80	89	81	104	81	88	82	76
1201:	70	85	85	73	63	96	60	84
1209:	51	62	63	61	65	59	68	61
1217:	66	60	59	64	55	47	70	54
1225:	59	57	52	47	51	51	50	52

1233:	45	54	47	57	39	46	44	47

Sample Title: GAS 1302

Channel								
1241:	26	50	36	41	45	47	37	40
1249:	25	40	39	34	33	37	26	41
1257:	40	43	43	29	31	27	32	38
1265:	35	27	37	36	26	32	36	32
1273:	42	39	33	27	45	34	29	25
1281:	42	47	36	34	38	25	30	30
1289:	32	34	21	29	39	38	25	21
1297:	28	38	30	40	28	32	40	34
1305:	32	19	33	27	29	24	37	24
1313:	32	27	36	28	37	39	36	35
1321:	44	43	44	40	40	46	35	56
1329:	116	1132	5395	8263	3722	566	86	56
1337:	42	28	16	22	10	15	19	19
1345:	11	19	22	12	15	15	15	18
1353:	14	17	12	10	9	14	20	17
1361:	8	10	18	13	12	11	13	6
1369:	14	17	12	13	13	21	10	14
1377:	14	16	10	8	12	12	17	19
1385:	12	11	18	13	7	14	10	14
1393:	10	6	7	10	15	7	11	6
1401:	8	18	7	12	17	14	12	11
1409:	17	15	16	11	14	11	13	11
1417:	16	15	11	13	11	11	14	10
1425:	6	14	10	13	15	12	13	14
1433:	11	18	16	15	14	13	15	11
1441:	7	19	12	11	8	10	9	7
1449:	10	19	16	9	12	11	13	13
1457:	8	19	21	12	15	14	9	8
1465:	11	15	17	16	16	14	8	9
1473:	13	10	11	10	12	13	9	8
1481:	10	9	13	10	11	11	8	12
1489:	14	18	13	8	14	13	8	4
1497:	14	12	11	17	12	7	8	9
1505:	10	13	10	17	17	12	5	10
1513:	9	13	11	3	15	10	9	16
1521:	4	10	10	9	10	7	8	8
1529:	11	15	13	19	6	21	12	8
1537:	12	10	18	7	11	15	21	10
1545:	13	11	6	17	20	10	5	11
1553:	10	9	6	17	9	11	13	13
1561:	13	17	18	11	10	11	15	9
1569:	9	12	9	12	14	4	9	11
1577:	12	13	9	10	6	12	9	21
1585:	10	9	10	7	12	11	19	13
1593:	12	10	12	9	13	14	8	14
1601:	9	13	8	22	12	13	11	7
1609:	8	8	14	8	11	11	10	9
1617:	10	9	8	9	14	8	9	12
1625:	12	7	6	7	10	6	7	5
1633:	8	11	7	10	3	10	15	8
1641:	4	16	5	11	9	10	7	14
1649:	11	14	7	13	6	6	10	6
1657:	9	6	6	18	9	2	10	12

1665:	8	8	9	12	8	11	11	7

Sample Title: GAS 1302

Channel								
1673:	7	3	10	11	5	9	5	7
1681:	7	7	10	10	9	9	9	5
1689:	5	7	5	8	12	12	7	8
1697:	7	9	8	4	5	11	8	5
1705:	7	7	4	4	7	8	5	3
1713:	4	6	7	8	7	5	3	6
1721:	6	10	6	6	4	5	7	7
1729:	5	3	3	6	13	7	10	15
1737:	5	5	4	4	4	8	8	6
1745:	5	4	2	4	9	4	3	4
1753:	9	4	6	7	2	7	3	7
1761:	9	11	11	7	9	3	3	6
1769:	7	11	8	6	5	7	4	4
1777:	9	8	4	5	4	8	5	9
1785:	12	10	4	6	6	9	4	7
1793:	8	6	4	10	8	7	9	7
1801:	7	6	6	6	7	5	4	5
1809:	5	8	5	5	7	5	6	5
1817:	1	7	5	6	6	9	3	10
1825:	6	1	6	6	7	11	5	4
1833:	20	80	167	106	23	6	8	4
1841:	5	8	4	4	7	7	8	4
1849:	5	7	6	3	3	3	7	9
1857:	9	8	1	6	6	5	7	3
1865:	2	2	7	6	6	7	11	0
1873:	4	2	5	3	6	0	5	7
1881:	3	2	13	6	5	7	5	3
1889:	5	5	3	4	5	2	7	7
1897:	5	3	8	3	2	7	6	4
1905:	5	8	4	9	4	7	5	6
1913:	3	6	5	7	4	5	4	5
1921:	7	3	8	5	8	4	4	10
1929:	4	5	8	3	5	6	6	7
1937:	4	1	4	9	6	3	7	2
1945:	6	8	3	8	4	5	6	7
1953:	7	9	3	3	3	4	2	5
1961:	2	6	7	7	5	6	7	3
1969:	9	8	4	2	3	7	3	8
1977:	5	6	9	10	3	2	6	4
1985:	5	9	1	6	13	13	6	11
1993:	4	4	11	5	3	5	3	4
2001:	4	5	8	5	8	7	2	3
2009:	4	4	4	6	6	6	5	5
2017:	8	4	7	6	6	4	4	5
2025:	3	4	4	5	10	5	8	2
2033:	2	6	4	2	6	3	10	8
2041:	4	2	6	1	7	3	3	2
2049:	3	4	4	1	4	3	5	6
2057:	3	5	6	5	6	4	4	6
2065:	6	5	4	7	3	2	7	3
2073:	6	1	3	4	4	7	5	2
2081:	5	4	4	5	5	5	4	2
2089:	7	6	7	3	4	6	5	4

2097:	3	3	5	4	3	6	2	3

Sample Title: GAS 1302

Channel								
2105:	5	5	4	1	8	1	1	3
2113:	3	5	4	8	2	8	5	2
2121:	7	5	3	4	1	4	3	3
2129:	4	3	8	6	4	3	3	1
2137:	3	1	5	3	6	6	3	0
2145:	2	5	6	3	3	3	2	7
2153:	6	3	2	3	4	7	4	3
2161:	5	5	3	1	3	6	6	5
2169:	4	5	3	5	6	1	10	5
2177:	10	5	4	3	0	4	4	11
2185:	3	3	2	9	4	5	6	3
2193:	4	3	4	1	4	3	6	5
2201:	1	7	1	8	1	2	2	2
2209:	3	3	4	4	5	5	4	5
2217:	6	7	5	8	4	3	4	2
2225:	5	6	5	4	3	11	5	4
2233:	3	5	4	5	2	9	4	4
2241:	4	3	5	1	8	3	2	3
2249:	3	3	3	3	5	2	5	4
2257:	1	4	7	6	1	7	3	3
2265:	4	5	5	2	7	3	3	10
2273:	6	3	5	5	4	2	4	2
2281:	7	3	6	3	3	4	3	2
2289:	3	5	5	8	6	4	2	3
2297:	3	1	4	6	2	4	2	2
2305:	2	1	2	1	5	3	6	2
2313:	3	4	3	4	2	1	3	2
2321:	0	4	6	1	0	0	3	1
2329:	2	2	2	4	0	3	0	3
2337:	0	2	1	0	4	1	1	4
2345:	1	2	2	2	1	0	2	1
2353:	4	3	2	1	4	3	2	3
2361:	6	3	1	2	0	1	2	2
2369:	2	2	0	1	3	3	2	0
2377:	1	1	1	1	2	4	5	3
2385:	0	1	0	3	1	1	0	2
2393:	1	0	0	1	3	1	1	0
2401:	0	2	0	1	1	0	1	1
2409:	1	1	0	1	2	1	1	2
2417:	0	1	0	1	1	5	0	0
2425:	0	0	0	0	1	1	0	1
2433:	0	2	3	0	0	0	1	0
2441:	1	2	1	2	0	1	2	1
2449:	0	1	0	1	1	0	1	0
2457:	0	1	1	0	1	0	2	0
2465:	1	2	0	2	0	1	0	1
2473:	1	2	0	0	0	1	0	3
2481:	3	0	0	1	1	2	0	0
2489:	0	0	2	0	1	0	1	0
2497:	0	1	1	0	1	6	23	69
2505:	61	30	2	0	0	1	0	2
2513:	0	0	0	0	1	0	0	0
2521:	0	0	0	0	1	1	1	0

2529:	0	0	0	0	1	1	0	1

Sample Title: GAS 1302

Channel								
2537:	0	0	0	0	0	0	0	0
2545:	0	0	0	1	0	0	0	0
2553:	1	0	0	0	0	1	0	0
2561:	0	0	0	0	0	2	0	0
2569:	0	0	0	0	0	0	0	1
2577:	0	0	0	0	0	1	1	1
2585:	0	0	1	0	0	0	1	0
2593:	0	0	0	0	2	0	0	0
2601:	0	0	0	0	1	0	0	0
2609:	2	0	0	1	7	5	1	0
2617:	0	0	0	0	0	0	0	0
2625:	0	0	0	0	0	0	0	0
2633:	0	0	0	0	0	0	1	0
2641:	0	0	0	0	0	1	1	0
2649:	0	0	1	0	0	0	0	0
2657:	0	0	0	0	0	0	0	0
2665:	0	1	0	1	0	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	1	0	0	0	0	0	0	1
2689:	0	0	0	0	0	0	0	0
2697:	0	0	0	0	0	0	0	0
2705:	0	0	0	0	1	0	0	0
2713:	0	0	0	0	1	0	0	0
2721:	0	0	0	0	0	0	0	1
2729:	0	0	0	3	3	1	1	1
2737:	0	1	1	0	0	0	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	0	2	0	0	0
2793:	1	0	0	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	2
2825:	0	0	0	0	0	0	1	0
2833:	0	0	0	0	0	1	0	0
2841:	0	0	0	0	0	0	0	1
2849:	0	0	1	0	0	0	0	0
2857:	0	1	0	0	0	0	0	0
2865:	0	0	1	0	0	0	0	0
2873:	0	0	0	0	0	0	0	1
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	0	1
2913:	0	0	1	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	1	0	0	0	0	0	0
2953:	0	0	0	0	1	0	0	0

2961:	0	0	0	0	0	0	1	0

Sample Title: GAS 1302

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	1	0	0
2985:	1	0	0	0	0	0	0	1
2993:	0	0	0	0	1	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	1	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	1	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	1
3049:	0	0	1	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	1	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	1	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	1	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	1	1	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	1	0	0	0	1	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	1	1	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	1	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	1	0	0	0
3305:	0	0	1	1	0	0	0	1
3313:	0	0	0	0	0	1	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	1
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	1	0	0	0	0

3393:	0	0	0	0	0	1	0	0

Sample Title: GAS 1302

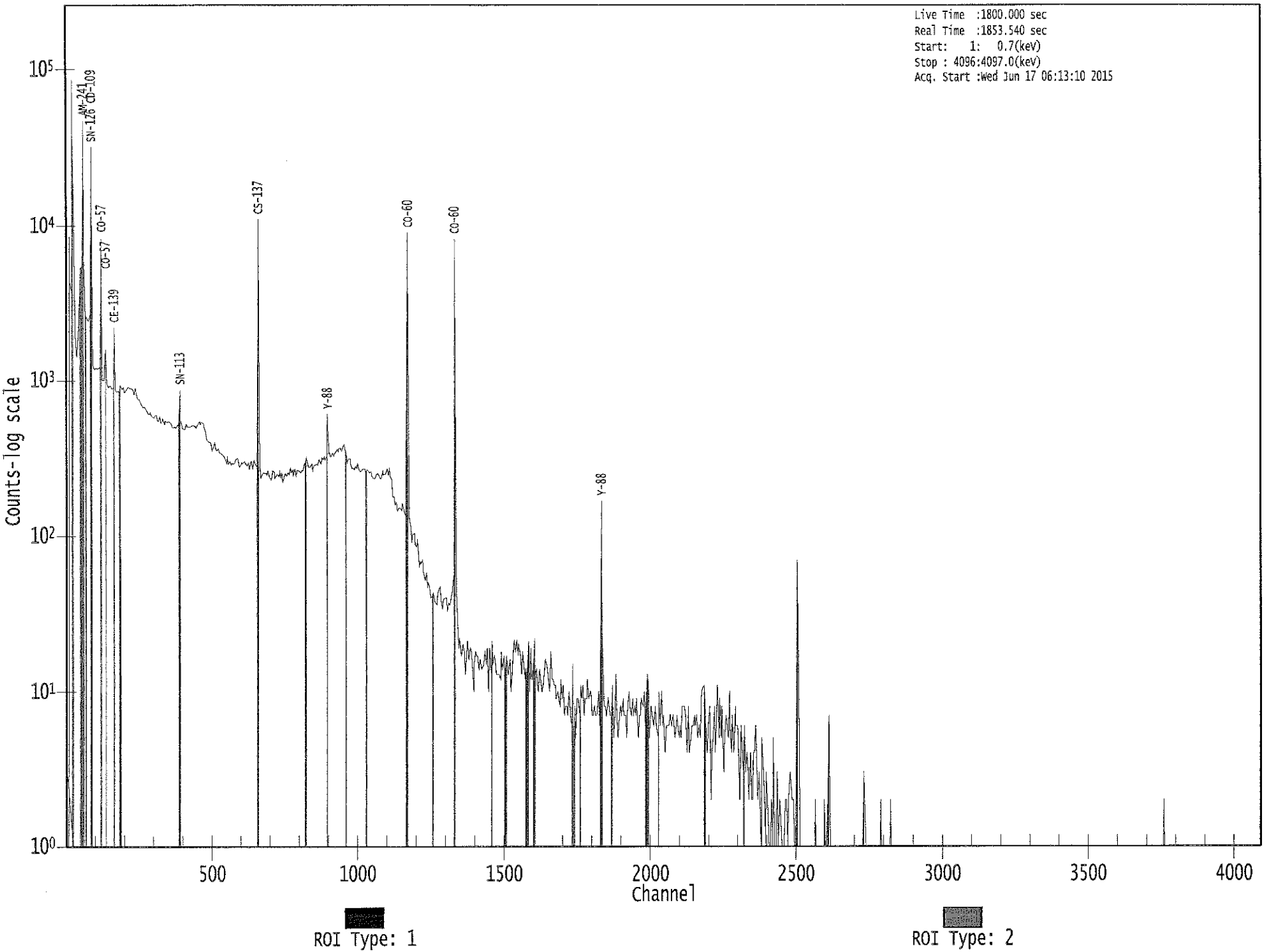
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	1	0	0	1
3417:	1	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	1	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	1	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	1	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	1	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	1	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	1	1	0	0	0	0	0
3657:	0	0	0	0	0	1	0	0
3665:	0	1	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	1	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	1
3697:	0	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	1	0	0	0	0	1	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	1	0	0	0	1	0
3753:	0	0	0	0	0	0	1	2
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: GAS 1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	1
3881:	0	0	0	0	0	0	0	0
3889:	0	0	1	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	1	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	1	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	1	0	0
3977:	0	1	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	1
4001:	0	0	0	0	0	0	0	0
4009:	1	0	0	0	0	0	0	0
4017:	0	0	1	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	1	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	1	0	0	0	0	0

0000023538.CNF



Apex-Gamma

Analysis Report for 1506043-02
BLANK

6/17

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 6/17/2015 3:21:48PM
Acquisition Started	: 6/17/2015 6:13:02AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23537

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
6/17/15

Analysis Report for 1506043-02

BLANK

PEAK LOCATE REPORT

Peak Locate Performed on : 6/17/2015 7:13:19AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	54.84	54.94	0.0000	0.00
2	74.73	74.82	0.0000	0.00
3	127.78	127.84	0.0000	0.00
4	223.15	223.15	0.0000	0.00
5	300.97	300.94	0.0000	0.00
6	352.12	352.05	0.0000	0.00
7	354.76	354.70	0.0000	0.00
8	372.21	372.13	0.0000	0.00
9	488.11	487.98	0.0000	0.00
10	541.18	541.02	0.0000	0.00
11	571.74	571.57	0.0000	0.00
12	629.55	629.34	0.0000	0.00
13	981.85	981.50	0.0000	0.00
14	1052.27	1051.89	0.0000	0.00
15	1073.75	1073.36	0.0000	0.00
16	1119.34	1118.94	0.0000	0.00
17	1361.66	1361.17	0.0000	0.00
18	1554.84	1554.29	0.0000	0.00
19	1833.62	1833.00	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-02

BLANK

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 7:13:19AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	54.84	53 -	57	54.94	4.43E+01	39.40	2.87E+02	2.77
	2	74.73	70 -	79	74.82	7.84E+01	48.09	2.87E+02	3.41
	3	127.78	125 -	131	127.84	2.95E+01	30.10	1.43E+02	3.10
	4	223.15	221 -	226	223.15	2.30E+01	23.92	9.60E+01	2.70
	5	300.97	299 -	304	300.94	2.07E+01	20.88	6.85E+01	1.17
M	6	352.12	350 -	358	352.05	3.85E+01	13.06	1.82E+01	1.73
m	7	354.76	350 -	358	354.70	1.23E+01	17.16	2.01E+01	1.74
	8	372.21	368 -	376	372.13	3.80E+01	17.24	2.21E+01	3.58
	9	488.11	483 -	492	487.98	2.01E+01	23.00	6.18E+01	4.19
	10	541.18	538 -	544	541.02	1.20E+01	13.48	2.39E+01	1.14
	11	571.74	568 -	575	571.57	1.94E+01	17.20	3.72E+01	4.06
	12	629.55	624 -	635	629.34	2.45E+01	20.69	3.89E+01	4.13
	13	981.85	979 -	984	981.50	5.00E+00	7.07	6.00E+00	2.13
	14	1052.27	1048 -	1055	1051.89	9.88E+00	10.58	1.23E+01	1.79
	15	1073.75	1069 -	1076	1073.36	8.11E+00	10.20	1.18E+01	2.93
	16	1119.34	1116 -	1123	1118.94	7.61E+00	10.20	1.28E+01	2.83
	17	1361.66	1358 -	1363	1361.17	9.59E+00	7.28	2.82E+00	1.87
	18	1554.84	1551 -	1556	1554.29	7.00E+00	5.29	0.00E+00	2.09
	19	1833.62	1830 -	1835	1833.00	5.00E+00	4.47	0.00E+00	2.98

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 7:13:19AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1506043-02

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	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	54.84	53 -	57	4.43E+01	39.40	2.87E+02	3.05E+01
	2	74.73	70 -	79	7.84E+01	48.09	2.87E+02	3.68E+01
	3	127.78	125 -	131	2.95E+01	30.10	1.43E+02	2.31E+01
	4	223.15	221 -	226	2.30E+01	23.92	9.60E+01	1.80E+01
	5	300.97	299 -	304	2.07E+01	20.88	6.85E+01	1.54E+01
M	6	352.12	350 -	358	3.85E+01	13.06	1.82E+01	7.02E+00
m	7	354.76	350 -	358	1.23E+01	17.16	2.01E+01	7.38E+00
	8	372.21	368 -	376	3.80E+01	17.24	2.21E+01	9.91E+00
	9	488.11	483 -	492	2.01E+01	23.00	6.18E+01	1.74E+01
	10	541.18	538 -	544	1.20E+01	13.48	2.39E+01	9.50E+00
	11	571.74	568 -	575	1.94E+01	17.20	3.72E+01	1.21E+01
	12	629.55	624 -	635	2.45E+01	20.69	3.89E+01	1.49E+01
	13	981.85	979 -	984	5.00E+00	7.07	6.00E+00	4.50E+00
	14	1052.27	1048 -	1055	9.88E+00	10.58	1.23E+01	7.00E+00
	15	1073.75	1069 -	1076	8.11E+00	10.20	1.18E+01	6.95E+00
	16	1119.34	1116 -	1123	7.61E+00	10.20	1.28E+01	7.05E+00
	17	1361.66	1358 -	1363	9.59E+00	7.28	2.82E+00	3.14E+00
	18	1554.84	1551 -	1556	7.00E+00	5.29	0.00E+00	0.00E+00
	19	1833.62	1830 -	1835	5.00E+00	4.47	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 6/17/2015 7:13:19AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	54.84	53 -	57	54.94	4.43E+01	39.40	2.87E+02	.....
2	74.73	70 -	79	74.82	7.84E+01	48.09	2.87E+02	AM-243
3	127.78	125 -	131	127.84	2.95E+01	30.10	1.43E+02	.....
4	223.15	221 -	226	223.15	2.30E+01	23.92	9.60E+01	.....
5	300.97	299 -	304	300.94	2.07E+01	20.88	6.85E+01	GA-67 PB-212

Analysis Report for 1506043-02

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	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									BI-210M
M	6	352.12	350 -	358	352.05	3.85E+01	13.06	1.82E+01	PB-214
m	7	354.76	350 -	358	354.70	1.23E+01	17.16	2.01E+01	.....
	8	372.21	368 -	376	372.13	3.80E+01	17.24	2.21E+01	.....
	9	488.11	483 -	492	487.98	2.01E+01	23.00	6.18E+01	.....
	10	541.18	538 -	544	541.02	1.20E+01	13.48	2.39E+01	.....
	11	571.74	568 -	575	571.57	1.94E+01	17.20	3.72E+01	.....
	12	629.55	624 -	635	629.34	2.45E+01	20.69	3.89E+01	.....
	13	981.85	979 -	984	981.50	5.00E+00	7.07	6.00E+00	.....
	14	1052.27	1048 -	1055	1051.89	9.88E+00	10.58	1.23E+01	.....
	15	1073.75	1069 -	1076	1073.36	8.11E+00	10.20	1.18E+01	.....
	16	1119.34	1116 -	1123	1118.94	7.61E+00	10.20	1.28E+01	BI-214
	17	1361.66	1358 -	1363	1361.17	9.59E+00	7.28	2.82E+00	.....
	18	1554.84	1551 -	1556	1554.29	7.00E+00	5.29	0.00E+00	.....
	19	1833.62	1830 -	1835	1833.00	5.00E+00	4.47	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 6/17/2015 7:13:19AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	54.84	4.43E+01	39.40	1.93E-02	1.68E-03
	2	74.73	7.84E+01	48.09	2.71E-02	3.19E-03
	3	127.78	2.95E+01	30.10	2.61E-02	2.82E-03
	4	223.15	2.30E+01	23.92	1.87E-02	1.61E-03
	5	300.97	2.07E+01	20.88	1.53E-02	1.45E-03
M	6	352.12	3.85E+01	13.06	1.37E-02	1.21E-03
m	7	354.76	1.23E+01	17.16	1.36E-02	1.20E-03
	8	372.21	3.80E+01	17.24	1.32E-02	1.11E-03
	9	488.11	2.01E+01	23.00	1.09E-02	9.22E-04
	10	541.18	1.20E+01	13.48	1.01E-02	8.68E-04
	11	571.74	1.94E+01	17.20	9.72E-03	8.37E-04
	12	629.55	2.45E+01	20.69	9.04E-03	7.78E-04
	13	981.85	5.00E+00	7.07	6.35E-03	5.51E-04
	14	1052.27	9.88E+00	10.58	6.00E-03	5.15E-04
	15	1073.75	8.11E+00	10.20	5.90E-03	5.04E-04

Analysis Report for 1506043-02

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Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
16	1119.34	7.61E+00	10.20	5.71E-03	4.80E-04
17	1361.66	9.59E+00	7.28	4.91E-03	5.14E-04
18	1554.84	7.00E+00	5.29	4.49E-03	4.34E-04
19	1833.62	5.00E+00	4.47	4.11E-03	3.19E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/17/2015 7:13:19AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023401.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	54.84	4.43E+01	39.40			4.43E+01	3.94E+01
	2	74.73	7.84E+01	48.09	4.56E+00	6.56E+00	7.38E+01	4.85E+01
	3	127.78	2.95E+01	30.10			2.95E+01	3.01E+01
	4	223.15	2.30E+01	23.92			2.30E+01	2.39E+01
	5	300.97	2.07E+01	20.88	4.92E-01	8.56E-01	2.03E+01	2.09E+01
M	6	352.12	3.85E+01	13.06	1.96E+01	5.51E+00	1.89E+01	1.42E+01
m	7	354.76	1.23E+01	17.16			1.23E+01	1.72E+01
	8	372.21	3.80E+01	17.24			3.80E+01	1.72E+01
	9	488.11	2.01E+01	23.00			2.01E+01	2.30E+01
	10	541.18	1.20E+01	13.48			1.20E+01	1.35E+01
	11	571.74	1.94E+01	17.20			1.94E+01	1.72E+01
	12	629.55	2.45E+01	20.69			2.45E+01	2.07E+01
	13	981.85	5.00E+00	7.07			5.00E+00	7.07E+00
	14	1052.27	9.88E+00	10.58			9.88E+00	1.06E+01
	15	1073.75	8.11E+00	10.20			8.11E+00	1.02E+01
	16	1119.34	7.61E+00	10.20			7.61E+00	1.02E+01
	17	1361.66	9.59E+00	7.28			9.59E+00	7.28E+00
	18	1554.84	7.00E+00	5.29			7.00E+00	5.29E+00
	19	1833.62	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-02

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AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 6/17/2015 7:13:19AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023401.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	54.84	4.43E+01	39.40			4.43E+01	3.94E+01
	2	74.73	7.84E+01	48.09	4.56E+00	6.56E+00	7.38E+01	4.85E+01
	3	127.78	2.95E+01	30.10			2.95E+01	3.01E+01
	4	223.15	2.30E+01	23.92			2.30E+01	2.39E+01
	5	300.97	2.07E+01	20.88	4.92E-01	8.56E-01	2.03E+01	2.09E+01
M	6	352.12	3.85E+01	13.06	1.96E+01	5.51E+00	1.89E+01	1.42E+01
m	7	354.76	1.23E+01	17.16			1.23E+01	1.72E+01
	8	372.21	3.80E+01	17.24			3.80E+01	1.72E+01
	9	488.11	2.01E+01	23.00			2.01E+01	2.30E+01
	10	541.18	1.20E+01	13.48			1.20E+01	1.35E+01
	11	571.74	1.94E+01	17.20			1.94E+01	1.72E+01
	12	629.55	2.45E+01	20.69			2.45E+01	2.07E+01
	13	981.85	5.00E+00	7.07			5.00E+00	7.07E+00
	14	1052.27	9.88E+00	10.58			9.88E+00	1.06E+01
	15	1073.75	8.11E+00	10.20			8.11E+00	1.02E+01
	16	1119.34	7.61E+00	10.20			7.61E+00	1.02E+01
	17	1361.66	9.59E+00	7.28			9.59E+00	7.28E+00
	18	1554.84	7.00E+00	5.29			7.00E+00	5.29E+00
	19	1833.62	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506043-02

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.430	295.21		19.19		
		351.92	*	37.19	3.56E-02	2.68E-02
AM-243	0.999	74.67	*	66.00	3.95E-02	2.64E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 7:13:19AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	54.84	1.22961E-02	44.50		
	3	127.78	8.20407E-03	50.96		
	4	223.15	6.38889E-03	51.99		
	5	300.97	5.62591E-03	51.59	Tol.	GA-67 BI-210M PB-212
m	7	354.76	3.42511E-03	69.59		
	8	372.21	1.05471E-02	22.70		
	9	488.11	5.58824E-03	57.16		
	10	541.18	3.34491E-03	55.98		
	11	571.74	5.39108E-03	44.32		
	12	629.55	6.81503E-03	42.16		
	13	981.85	1.38889E-03	70.71		
	14	1052.27	2.74306E-03	53.58		
	15	1073.75	2.25198E-03	62.90		
	16	1119.34	2.11310E-03	67.03	Tol.	BI-214
	17	1361.66	2.66414E-03	37.95		
	18	1554.84	1.94444E-03	37.80		
	19	1833.62	1.38889E-03	44.72		

Analysis Report for 1506043-02
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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.43	295.21		19.19		
		351.92	*	37.19	3.56E-02	2.68E-02
AM-243	0.99	74.67	*	66.00	3.95E-02	2.64E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
PB-214	0.430	3.56E-02	2.68E-02	
AM-243	0.999	3.95E-02	2.64E-02	

Analysis Report for 1506043-02

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? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 7:13:19AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	54.84	1.22961E-02	44.50		
	3	127.78	8.20407E-03	50.96		
	4	223.15	6.38889E-03	51.99		
	5	300.97	5.62591E-03	51.59	Tol.	GA-67 BI-210M PB-212
m	7	354.76	3.42511E-03	69.59		
	8	372.21	1.05471E-02	22.70		
	9	488.11	5.58824E-03	57.16		
	10	541.18	3.34491E-03	55.98		
	11	571.74	5.39108E-03	44.32		
	12	629.55	6.81503E-03	42.16		
	13	981.85	1.38889E-03	70.71		
	14	1052.27	2.74306E-03	53.58		
	15	1073.75	2.25198E-03	62.90		
	16	1119.34	2.11310E-03	67.03	Tol.	BI-214
	17	1361.66	2.66414E-03	37.95		
	18	1554.84	1.94444E-03	37.80		
	19	1833.62	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	-3.22E-02	1.94E-01	1.94E-01
+	NA-22	1274.54	99.94	-3.72E-03	2.44E-02	2.44E-02
+	NA-24	1368.53	99.99	4.38E-04	4.18E-03	1.85E-02
		2754.09	99.86	0.00E+00		4.18E-03
+	AL-26	1808.65	99.76	0.00E+00	2.50E-02	2.50E-02
+	K-40	1460.81	10.67	5.35E-02	3.87E-01	3.87E-01
+	AR-41	1293.64	99.16	-1.95E-04	1.00E-03	1.00E-03
+	TI-44	67.88	94.40	-2.00E-03	1.28E-02	1.28E-02
		78.34	96.00	-4.16E-04		1.39E-02
+	SC-46	889.25	99.98	3.47E-03	2.71E-02	2.71E-02
		1120.51	99.99	4.51E-03		3.26E-02
+	V-48	983.52	99.98	-7.44E-04	2.59E-02	2.59E-02
		1312.10	97.50	8.63E-03		2.71E-02
+	CR-51	320.08	9.83	1.83E-04	2.02E-01	2.02E-01
+	MN-54	834.83	99.97	3.31E-03	2.58E-02	2.58E-02
+	CO-56	846.75	99.96	-1.23E-02	2.69E-02	2.69E-02
		1037.75	14.03	-3.68E-02		1.87E-01
		1238.25	67.00	-9.81E-03		4.29E-02
		1771.40	15.51	3.69E-03		1.37E-01
		2598.48	16.90	9.79E-02		2.22E-01
+	CO-57	122.06	85.51	1.13E-03	1.76E-02	1.76E-02
		136.48	10.60	-7.14E-02		1.63E-01
+	CO-58	810.76	99.40	-1.07E-02	2.61E-02	2.61E-02
+	FE-59	1099.22	56.50	-4.81E-03	5.07E-02	5.07E-02
		1291.56	43.20	1.66E-02		7.20E-02
+	CO-60	1173.22	100.00	9.59E-03	3.05E-02	3.72E-02
		1332.49	100.00	2.40E-03		3.05E-02
+	ZN-65	1115.52	50.75	-1.65E-03	5.49E-02	5.49E-02
+	GA-67	93.31	35.70	4.19E-02	5.09E-02	5.09E-02
		208.95	2.24	1.97E-01		8.16E-01
		300.22	16.00	1.78E-02		1.32E-01
+	SE-75	121.11	16.70	4.09E-02	2.92E-02	9.43E-02
		136.00	59.20	3.85E-04		2.92E-02
		264.65	59.80	-2.23E-04		3.19E-02
		279.53	25.20	1.50E-02		8.42E-02
		400.65	11.40	8.25E-02		1.70E-01
+	RB-82	776.52	13.00	-2.64E-02	2.03E-01	2.03E-01
+	RB-83	520.41	46.00	-6.93E-04	4.99E-02	4.99E-02
		529.64	30.30	-8.34E-03		6.88E-02
		552.65	16.40	7.67E-03		1.25E-01
+	KR-85	513.99	0.43	-1.49E+00	7.48E+00	7.48E+00
+	SR-85	513.99	99.27	-6.49E-03	3.26E-02	3.26E-02
+	Y-88	898.02	93.40	5.44E-03	2.82E-02	2.82E-02
		1836.01	99.38	0.00E+00		3.07E-02
+	NB-93M	16.57	9.43	-1.71E+03	3.02E+03	3.02E+03
+	NB-94	702.63	100.00	-7.95E-03	2.92E-02	3.15E-02
		871.10	100.00	7.19E-03		2.92E-02

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	-5.97E-03	2.76E-02	2.76E-02
+	NB-95M	235.69	25.00	-8.29E-02	7.81E-02	7.81E-02
+	ZR-95	724.18	43.70	-1.39E-02	4.29E-02	6.04E-02
		756.72	55.30	-5.34E-03		4.29E-02
+	MO-99	181.06	6.20	-8.51E-02	1.88E-01	2.65E-01
		739.58	12.80	1.18E-02		1.88E-01
		778.00	4.50	5.30E-02		5.55E-01
+	RU-103	497.08	89.00	1.24E-02	2.53E-02	2.53E-02
+	RU-106	621.84	9.80	-5.10E-02	2.46E-01	2.46E-01
+	AG-108M	433.93	89.90	3.14E-03	2.37E-02	2.37E-02
		614.37	90.40	-3.37E-02		2.93E-02
		722.95	90.50	8.54E-03		3.06E-02
+	CD-109	88.03	3.72	9.35E-02	4.58E-01	4.58E-01
+	AG-110M	657.75	93.14	-9.05E-03	2.94E-02	2.94E-02
		677.61	10.53	-3.00E-02		2.61E-01
		706.67	16.46	-1.97E-02		2.04E-01
		763.93	21.98	1.24E-03		1.26E-01
		884.67	71.63	1.16E-03		3.37E-02
		1384.27	23.94	-5.36E-02		8.87E-02
+	CD-113M	263.70	0.02	7.36E+00	8.11E+01	8.11E+01
+	SN-113	255.12	1.93	-6.63E-01	2.78E-02	9.94E-01
		391.69	64.90	-1.17E-02		2.78E-02
+	TE123M	159.00	84.10	1.18E-02	2.37E-02	2.37E-02
+	SB-124	602.71	97.87	-3.30E-03	2.94E-02	2.94E-02
		645.85	7.26	5.82E-02		3.98E-01
		722.78	11.10	6.93E-02		2.49E-01
		1691.02	49.00	-3.19E-02		4.23E-02
+	I-125	35.49	6.49	-3.90E-01	2.04E+00	2.04E+00
+	SB-125	176.33	6.89	7.65E-02	6.82E-02	2.94E-01
		427.89	29.33	5.75E-03		6.82E-02
		463.38	10.35	2.04E-02		2.12E-01
		600.56	17.80	-1.00E-02		1.62E-01
		635.90	11.32	1.10E-02		2.01E-01
+	SB-126	414.70	83.30	-1.08E-02	2.07E-02	2.07E-02
		666.33	99.60	-3.49E-04		2.83E-02
		695.00	99.60	2.19E-02		3.27E-02
		720.50	53.80	-1.63E-02		4.81E-02
+	SN-126	87.57	37.00	9.41E-03	4.61E-02	4.61E-02
+	SB-127	473.00	25.00	-1.93E-02	7.28E-02	7.40E-02
		685.20	35.70	3.97E-02		7.28E-02
		783.80	14.70	2.29E-03		1.61E-01
+	I-129	29.78	57.00	-2.60E-01	6.42E-01	6.42E-01
		33.60	13.20	-1.22E-01		1.32E+00
		39.58	7.52	7.04E-02		1.10E+00
+	I-131	284.30	6.05	6.61E-02	2.05E-02	3.38E-01
		364.48	81.20	2.89E-03		2.05E-02
		636.97	7.26	4.43E-02		3.20E-01
		722.89	1.80	4.16E-01		1.49E+00

Analysis Report for 1506043-02

BLANK

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TE-132	49.72	13.10	8.29E-03	2.07E-02	2.64E-01
		228.16	88.00	1.06E-02		2.07E-02
+	BA-133	81.00	33.00	3.13E-03	3.05E-02	3.79E-02
		302.84	17.80	-1.08E-01		1.11E-01
		356.01	60.00	-3.75E-03		3.05E-02
+	I-133	529.87	86.30	1.01E-04	1.73E-02	1.73E-02
+	CS-134	563.23	8.38	1.08E-01	3.01E-02	2.91E-01
		569.32	15.43	6.20E-03		1.46E-01
		604.70	97.60	-2.62E-02		3.01E-02
		795.84	85.40	1.34E-02		3.09E-02
		801.93	8.73	1.71E-01		3.21E-01
+	CS-135	268.24	16.00	-3.52E-02	1.19E-01	1.19E-01
+	I-135	1131.51	22.50	-1.37E-02	2.80E-02	4.29E-02
		1260.41	28.60	4.77E-03		2.80E-02
		1678.03	9.54	7.56E-02		1.50E-01
+	CS-136	153.22	7.46	-7.43E-02	3.14E-02	2.38E-01
		163.89	4.61	-1.00E-01		3.35E-01
		176.55	13.56	3.34E-02		1.43E-01
		273.65	12.66	1.73E-02		1.73E-01
		340.57	48.50	-1.02E-02		4.28E-02
		818.50	99.70	1.26E-02		3.14E-02
		1048.07	79.60	6.54E-04		3.27E-02
		1235.34	19.70	5.69E-02		1.57E-01
+	CS-137	661.65	85.12	6.60E-03	3.36E-02	3.36E-02
+	LA-138	788.74	34.00	1.67E-02	4.61E-02	7.71E-02
		1435.80	66.00	0.00E+00		4.61E-02
+	CE-139	165.85	80.35	-1.75E-03	2.11E-02	2.11E-02
+	BA-140	162.64	6.70	-2.57E-02	7.19E-02	2.49E-01
		304.84	4.50	1.22E-01		4.22E-01
		423.70	3.20	-1.22E-02		6.43E-01
		437.55	2.00	1.08E-01		1.07E+00
		537.32	25.00	7.79E-03		7.19E-02
+	LA-140	328.77	20.50	4.10E-02	2.92E-02	1.01E-01
		487.03	45.50	2.54E-02		5.48E-02
		815.85	23.50	-1.13E-02		1.22E-01
		1596.49	95.49	9.14E-03		2.92E-02
+	CE-141	145.44	48.40	-1.44E-02	3.45E-02	3.45E-02
+	CE-143	57.36	11.80	2.40E-02	4.48E-02	1.41E-01
		293.26	42.00	3.33E-03		4.48E-02
		664.55	5.20	4.43E-02		4.76E-01
+	CE-144	133.54	10.80	3.10E-03	1.50E-01	1.50E-01
+	PM-144	476.78	42.00	-8.01E-03	2.75E-02	4.83E-02
		618.01	98.60	3.81E-03		2.75E-02
		696.49	99.49	1.18E-02		3.24E-02
+	PM-145	36.85	21.70	1.73E-01	2.75E-01	5.35E-01
		37.36	39.70	8.87E-02		2.75E-01
		42.30	15.10	-1.94E-01		4.24E-01
		72.40	2.31	-2.80E-01		5.60E-01
+	PM-146	453.90	39.94	-2.22E-02	5.01E-02	5.01E-02

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90	14.01	5.45E-02	5.01E-02	2.05E-01
		747.13	13.10	-4.33E-02		1.68E-01
+	ND-147	91.11	28.90	5.74E-02	6.90E-02	6.90E-02
		531.02	13.10	-3.48E-03		1.48E-01
+	PM-149	285.90	3.10	1.23E-01	6.39E-01	6.39E-01
+	EU-152	121.78	20.50	4.71E-03	7.34E-02	7.34E-02
		244.69	5.40	1.15E-01		3.76E-01
		344.27	19.13	-1.48E-02		1.14E-01
		778.89	9.20	5.00E-02		2.98E-01
		964.01	10.40	-6.71E-02		2.79E-01
		1085.78	7.22	9.73E-02		4.56E-01
		1112.02	9.60	8.96E-02		3.03E-01
		1407.95	14.94	6.02E-02		2.12E-01
+	GD-153	97.43	31.30	2.03E-02	5.05E-02	5.05E-02
		103.18	22.20	-3.18E-02		6.79E-02
+	EU-154	123.07	40.50	1.22E-02	3.71E-02	3.71E-02
		723.30	19.70	3.92E-02		1.41E-01
		873.19	11.50	4.77E-02		2.54E-01
		996.32	10.30	-1.30E-02		2.79E-01
		1004.76	17.90	4.01E-02		1.78E-01
		1274.45	35.50	-1.05E-02		6.86E-02
+	EU-155	86.50	30.90	-4.06E-03	5.50E-02	5.50E-02
		105.30	20.70	1.53E-03		7.49E-02
+	EU-156	811.77	10.40	-7.65E-04	2.61E-01	2.61E-01
		1153.47	7.20	-1.63E-01		3.53E-01
		1230.71	8.90	-9.00E-02		2.82E-01
+	HO-166M	184.41	72.60	1.16E-02	3.05E-02	3.05E-02
		280.45	29.60	1.29E-02		7.20E-02
		410.94	11.10	3.27E-02		1.85E-01
		711.69	54.10	-2.43E-02		5.39E-02
+	TM-171	66.72	0.14	3.45E+00	9.37E+00	9.37E+00
+	HF-172	81.75	4.52	-1.07E-01	1.33E-01	2.76E-01
		125.81	11.30	-6.50E-02		1.33E-01
+	LU-172	181.53	20.60	-4.79E-02	3.58E-02	8.48E-02
		810.06	16.63	-6.20E-02		1.50E-01
		912.12	15.25	1.61E-02		1.97E-01
		1093.66	62.50	-1.27E-03		3.58E-02
+	LU-173	100.72	5.24	-2.88E-02	1.03E-01	2.95E-01
		272.11	21.20	3.95E-02		1.03E-01
+	HF-175	343.40	84.00	1.55E-02	2.68E-02	2.68E-02
+	LU-176	88.34	13.30	2.61E-02	2.24E-02	1.28E-01
		201.83	86.00	-5.80E-03		2.24E-02
		306.78	94.00	1.58E-02		2.27E-02
+	TA-182	67.75	41.20	-4.57E-03	2.94E-02	2.94E-02
		1121.30	34.90	4.34E-02		9.96E-02
		1189.05	16.23	2.71E-02		1.80E-01
		1221.41	26.98	-4.99E-02		8.72E-02
		1231.02	11.44	2.37E-02		2.37E-01
+	IR-192	308.46	29.68	2.83E-02	4.67E-02	7.04E-02

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	1.50E-02	4.67E-02	4.67E-02
+	HG-203	279.19		77.30	-5.61E-03	2.68E-02	2.68E-02
+	BI-207	569.67		97.72	9.79E-04	2.31E-02	2.31E-02
		1063.62		74.90	-2.06E-02		3.41E-02
+	TL-208	583.14		30.22	-1.38E-02	9.04E-02	9.04E-02
		860.37		4.48	-2.88E-01		6.27E-01
		2614.66		35.85	2.23E-02		1.05E-01
+	BI-210M	262.00		45.00	-7.40E-03	3.84E-02	3.84E-02
		300.00		23.00	1.34E-02		9.87E-02
+	PB-210	46.50		4.25	8.80E-01	1.30E+00	1.30E+00
+	PB-211	404.84		2.90	4.24E-01	7.59E-01	7.59E-01
		831.96		2.90	-3.09E-02		9.15E-01
+	BI-212	727.17		11.80	2.62E-02	2.46E-01	2.46E-01
		1620.62		2.75	1.19E-01		7.39E-01
+	PB-212	238.63		44.60	1.92E-02	5.54E-02	5.54E-02
		300.09		3.41	9.01E-02		6.66E-01
+	BI-214	609.31		46.30	1.45E-02	7.09E-02	7.09E-02
		1120.29		15.10	3.00E-02		2.17E-01
		1764.49		15.80	6.52E-02		2.30E-01
		2204.22		4.98	-9.79E-02		5.88E-01
+	PB-214	295.21		19.19	3.48E-02	6.27E-02	1.23E-01
		351.92	*	37.19	3.56E-02		6.27E-02
+	RN-219	401.80		6.50	-3.73E-01	2.64E-01	2.64E-01
+	RA-223	323.87		3.88	-7.23E-02	4.94E-01	4.94E-01
+	RA-224	240.98		3.95	1.57E-01	6.02E-01	6.02E-01
+	RA-225	40.00		31.00	1.61E-02	2.52E-01	2.52E-01
+	RA-226	186.21		3.28	4.99E-01	7.02E-01	7.02E-01
+	TH-227	50.10		8.40	1.37E-02	1.82E-01	4.37E-01
		236.00		11.50	-1.93E-01		1.82E-01
		256.20		6.30	2.10E-01		3.24E-01
+	AC-228	338.32		11.40	3.94E-02	1.15E-01	1.92E-01
		911.07		27.70	4.84E-02		1.15E-01
		969.11		16.60	-8.40E-02		1.50E-01
+	TH-230	48.44		16.90	-4.26E-02	2.52E-01	2.52E-01
		62.85		4.60	2.27E-01		3.66E-01
		67.67		0.37	-5.11E-01		3.28E+00
+	PA-231	283.67		1.60	2.57E-01	8.60E-01	1.32E+00
		302.67		2.30	-8.35E-01		8.60E-01
+	TH-231	25.64		14.70	1.58E+00	2.05E-01	8.42E+00
		84.21		6.40	9.48E-02		2.05E-01
+	PA-233	311.98		38.60	-3.51E-02	5.37E-02	5.37E-02
+	PA-234	131.20		20.40	-2.55E-02	7.26E-02	7.26E-02
		733.99		8.80	-6.41E-02		3.33E-01
		946.00		12.00	-7.28E-02		2.38E-01
+	PA-234M	1001.03		0.92	-1.33E+00	3.25E+00	3.25E+00
+	TH-234	63.29		3.80	2.73E-01	4.39E-01	4.39E-01
+	U-235	143.76		10.50	3.52E-02	1.62E-01	1.62E-01

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35		4.70	-3.75E-02	1.62E-01	3.64E-01
		205.31		4.70	-1.32E-01		4.12E-01
+	NP-237	86.50		12.60	-9.95E-03	1.35E-01	1.35E-01
+	NP-239	106.10		22.70	1.10E-02	6.19E-02	6.19E-02
		228.18		10.70	8.44E-02		1.65E-01
		277.60		14.10	2.85E-02		1.34E-01
+	AM-241	59.54		35.90	2.65E-02	5.02E-02	5.02E-02
+	AM-243	74.67	*	66.00	3.95E-02	4.15E-02	4.15E-02
+	CM-243	209.75		3.29	1.05E-01	1.50E-01	6.01E-01
		228.14		10.60	9.47E-02		1.86E-01
		277.60		14.00	3.19E-02		1.50E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	1.94E-01	1.94E-01	-3.22E-02	8.59E-02
NA-22	1274.54	99.94	2.44E-02	2.44E-02	-3.72E-03	9.67E-03
NA-24	1368.53	99.99	1.85E-02	4.18E-03	4.38E-04	7.49E-03
	2754.09	99.86	4.18E-03		0.00E+00	0.00E+00
AL-26	1808.65	99.76	2.50E-02	2.50E-02	0.00E+00	9.35E-03
K-40	1460.81	10.67	3.87E-01	3.87E-01	5.35E-02	1.67E-01
AR-41	1293.64	99.16	1.00E-03	1.00E-03	-1.95E-04	4.04E-04
TI-44	67.88	94.40	1.28E-02	1.28E-02	-2.00E-03	5.88E-03
	78.34	96.00	1.39E-02		-4.16E-04	6.44E-03
SC-46	889.25	99.98	2.71E-02	2.71E-02	3.47E-03	1.16E-02
	1120.51	99.99	3.26E-02		4.51E-03	1.41E-02
V-48	983.52	99.98	2.59E-02	2.59E-02	-7.44E-04	1.10E-02

Analysis Report for 1506043-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
V-48	1312.10	97.50	2.71E-02	2.59E-02	8.63E-03	1.09E-02
CR-51	320.08	9.83	2.02E-01	2.02E-01	1.83E-04	9.21E-02
MN-54	834.83	99.97	2.58E-02	2.58E-02	3.31E-03	1.11E-02
CO-56	846.75	99.96	2.69E-02	2.69E-02	-1.23E-02	1.16E-02
	1037.75	14.03	1.87E-01		-3.68E-02	7.83E-02
	1238.25	67.00	4.29E-02		-9.81E-03	1.78E-02
	1771.40	15.51	1.37E-01		3.69E-03	4.85E-02
	2598.48	16.90	2.22E-01		9.79E-02	9.20E-02
CO-57	122.06	85.51	1.76E-02	1.76E-02	1.13E-03	8.23E-03
	136.48	10.60	1.63E-01		-7.14E-02	7.65E-02
CO-58	810.76	99.40	2.61E-02	2.61E-02	-1.07E-02	1.13E-02
FE-59	1099.22	56.50	5.07E-02	5.07E-02	-4.81E-03	2.14E-02
	1291.56	43.20	7.20E-02		1.66E-02	3.02E-02
CO-60	1173.22	100.00	3.72E-02	3.05E-02	9.59E-03	1.62E-02
	1332.49	100.00	3.05E-02		2.40E-03	1.26E-02
ZN-65	1115.52	50.75	5.49E-02	5.49E-02	-1.65E-03	2.30E-02
GA-67	93.31	35.70	5.09E-02	5.09E-02	4.19E-02	2.43E-02
	208.95	2.24	8.16E-01		1.97E-01	3.80E-01
	300.22	16.00	1.32E-01		1.78E-02	6.09E-02
SE-75	121.11	16.70	9.43E-02	2.92E-02	4.09E-02	4.43E-02
	136.00	59.20	2.92E-02		3.85E-04	1.37E-02
	264.65	59.80	3.19E-02		-2.23E-04	1.46E-02
	279.53	25.20	8.42E-02		1.50E-02	3.89E-02
	400.65	11.40	1.70E-01		8.25E-02	7.62E-02
RB-82	776.52	13.00	2.03E-01	2.03E-01	-2.64E-02	8.85E-02
RB-83	520.41	46.00	4.99E-02	4.99E-02	-6.93E-04	2.22E-02
	529.64	30.30	6.88E-02		-8.34E-03	3.03E-02
	552.65	16.40	1.25E-01		7.67E-03	5.44E-02
KR-85	513.99	0.43	7.48E+00	7.48E+00	-1.49E+00	3.45E+00
SR-85	513.99	99.27	3.26E-02	3.26E-02	-6.49E-03	1.50E-02
Y-88	898.02	93.40	2.82E-02	2.82E-02	5.44E-03	1.21E-02
	1836.01	99.38	3.07E-02		0.00E+00	1.22E-02
NB-93M	16.57	9.43	3.02E+03	3.02E+03	-1.71E+03	1.46E+03
NB-94	702.63	100.00	3.15E-02	2.92E-02	-7.95E-03	1.42E-02
	871.10	100.00	2.92E-02		7.19E-03	1.27E-02
NB-95	765.79	99.81	2.76E-02	2.76E-02	-5.97E-03	1.21E-02
NB-95M	235.69	25.00	7.81E-02	7.81E-02	-8.29E-02	3.64E-02
ZR-95	724.18	43.70	6.04E-02	4.29E-02	-1.39E-02	2.66E-02
	756.72	55.30	4.29E-02		-5.34E-03	1.85E-02
MO-99	181.06	6.20	2.65E-01	1.88E-01	-8.51E-02	1.23E-01
	739.58	12.80	1.88E-01		1.18E-02	8.22E-02
	778.00	4.50	5.55E-01		5.30E-02	2.43E-01
RU-103	497.08	89.00	2.53E-02	2.53E-02	1.24E-02	1.13E-02
RU-106	621.84	9.80	2.46E-01	2.46E-01	-5.10E-02	1.09E-01
AG-108M	433.93	89.90	2.37E-02	2.37E-02	3.14E-03	1.07E-02
	614.37	90.40	2.93E-02		-3.37E-02	1.31E-02
	722.95	90.50	3.06E-02		8.54E-03	1.36E-02
CD-109	88.03	3.72	4.58E-01	4.58E-01	9.35E-02	2.17E-01
AG-110M	657.75	93.14	2.94E-02	2.94E-02	-9.05E-03	1.31E-02
	677.61	10.53	2.61E-01		-3.00E-02	1.16E-01
	706.67	16.46	2.04E-01		-1.97E-02	9.25E-02
	763.93	21.98	1.26E-01		1.24E-03	5.53E-02
	884.67	71.63	3.37E-02		1.16E-03	1.42E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	1384.27	23.94	8.87E-02	2.94E-02	-5.36E-02	3.32E-02
CD-113M	263.70	0.02	8.11E+01	8.11E+01	7.36E+00	3.72E+01
SN-113	255.12	1.93	9.94E-01	2.78E-02	-6.63E-01	4.58E-01
	391.69	64.90	2.78E-02		-1.17E-02	1.23E-02
TE123M	159.00	84.10	2.37E-02	2.37E-02	1.18E-02	1.12E-02
SB-124	602.71	97.87	2.94E-02	2.94E-02	-3.30E-03	1.33E-02
	645.85	7.26	3.98E-01		5.82E-02	1.79E-01
	722.78	11.10	2.49E-01		6.93E-02	1.10E-01
	1691.02	49.00	4.23E-02		-3.19E-02	1.50E-02
I-125	35.49	6.49	2.04E+00	2.04E+00	-3.90E-01	9.81E-01
SB-125	176.33	6.89	2.94E-01	6.82E-02	7.65E-02	1.38E-01
	427.89	29.33	6.82E-02		5.75E-03	3.04E-02
	463.38	10.35	2.12E-01		2.04E-02	9.50E-02
	600.56	17.80	1.62E-01		-1.00E-02	7.32E-02
	635.90	11.32	2.01E-01		1.10E-02	8.78E-02
SB-126	414.70	83.30	2.07E-02	2.07E-02	-1.08E-02	9.08E-03
	666.33	99.60	2.83E-02		-3.49E-04	1.27E-02
	695.00	99.60	3.27E-02		2.19E-02	1.48E-02
	720.50	53.80	4.81E-02		-1.63E-02	2.12E-02
SN-126	87.57	37.00	4.61E-02	4.61E-02	9.41E-03	2.18E-02
SB-127	473.00	25.00	7.40E-02	7.28E-02	-1.93E-02	3.26E-02
	685.20	35.70	7.28E-02		3.97E-02	3.24E-02
	783.80	14.70	1.61E-01		2.29E-03	6.98E-02
I-129	29.78	57.00	6.42E-01	6.42E-01	-2.60E-01	3.08E-01
	33.60	13.20	1.32E+00		-1.22E-01	6.33E-01
	39.58	7.52	1.10E+00		7.04E-02	5.28E-01
I-131	284.30	6.05	3.38E-01	2.05E-02	6.61E-02	1.56E-01
	364.48	81.20	2.05E-02		2.89E-03	9.11E-03
	636.97	7.26	3.20E-01		4.43E-02	1.41E-01
	722.89	1.80	1.49E+00		4.16E-01	6.61E-01
TE-132	49.72	13.10	2.64E-01	2.07E-02	8.29E-03	1.26E-01
	228.16	88.00	2.07E-02		1.06E-02	9.62E-03
BA-133	81.00	33.00	3.79E-02	3.05E-02	3.13E-03	1.76E-02
	302.84	17.80	1.11E-01		-1.08E-01	5.08E-02
	356.01	60.00	3.05E-02		-3.75E-03	1.36E-02
I-133	529.87	86.30	1.73E-02	1.73E-02	1.01E-04	7.53E-03
CS-134	563.23	8.38	2.91E-01	3.01E-02	1.08E-01	1.30E-01
	569.32	15.43	1.46E-01		6.20E-03	6.45E-02
	604.70	97.60	3.01E-02		-2.62E-02	1.36E-02
	795.84	85.40	3.09E-02		1.34E-02	1.34E-02
	801.93	8.73	3.21E-01		1.71E-01	1.41E-01
CS-135	268.24	16.00	1.19E-01	1.19E-01	-3.52E-02	5.47E-02
I-135	1131.51	22.50	4.29E-02	2.80E-02	-1.37E-02	1.73E-02
	1260.41	28.60	2.80E-02		4.77E-03	1.05E-02
	1678.03	9.54	1.50E-01		7.56E-02	6.22E-02
CS-136	153.22	7.46	2.38E-01	3.14E-02	-7.43E-02	1.12E-01
	163.89	4.61	3.35E-01		-1.00E-01	1.56E-01
	176.55	13.56	1.43E-01		3.34E-02	6.70E-02
	273.65	12.66	1.73E-01		1.73E-02	8.01E-02
	340.57	48.50	4.28E-02		-1.02E-02	1.95E-02
	818.50	99.70	3.14E-02		1.26E-02	1.40E-02
	1048.07	79.60	3.27E-02		6.54E-04	1.37E-02
	1235.34	19.70	1.57E-01		5.69E-02	6.65E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-137	661.65	85.12	3.36E-02	3.36E-02	6.60E-03	1.50E-02
LA-138	788.74	34.00	7.71E-02	4.61E-02	1.67E-02	3.35E-02
	1435.80	66.00	4.61E-02		0.00E+00	1.89E-02
CE-139	165.85	80.35	2.11E-02	2.11E-02	-1.75E-03	9.85E-03
BA-140	162.64	6.70	2.49E-01	7.19E-02	-2.57E-02	1.16E-01
	304.84	4.50	4.22E-01		1.22E-01	1.93E-01
	423.70	3.20	6.43E-01		-1.22E-02	2.89E-01
	437.55	2.00	1.07E+00		1.08E-01	4.81E-01
	537.32	25.00	7.19E-02		7.79E-03	3.10E-02
LA-140	328.77	20.50	1.01E-01	2.92E-02	4.10E-02	4.63E-02
	487.03	45.50	5.48E-02		2.54E-02	2.49E-02
	815.85	23.50	1.22E-01		-1.13E-02	5.35E-02
	1596.49	95.49	2.92E-02		9.14E-03	1.16E-02
CE-141	145.44	48.40	3.45E-02	3.45E-02	-1.44E-02	1.62E-02
CE-143	57.36	11.80	1.41E-01	4.48E-02	2.40E-02	6.63E-02
	293.26	42.00	4.48E-02		3.33E-03	2.07E-02
	664.55	5.20	4.76E-01		4.43E-02	2.14E-01
CE-144	133.54	10.80	1.50E-01	1.50E-01	3.10E-03	7.02E-02
PM-144	476.78	42.00	4.83E-02	2.75E-02	-8.01E-03	2.14E-02
	618.01	98.60	2.75E-02		3.81E-03	1.23E-02
	696.49	99.49	3.24E-02		1.18E-02	1.47E-02
PM-145	36.85	21.70	5.35E-01	2.75E-01	1.73E-01	2.57E-01
	37.36	39.70	2.75E-01		8.87E-02	1.32E-01
	42.30	15.10	4.24E-01		-1.94E-01	2.03E-01
	72.40	2.31	5.60E-01		-2.80E-01	2.59E-01
PM-146	453.90	39.94	5.01E-02	5.01E-02	-2.22E-02	2.22E-02
	735.90	14.01	2.05E-01		5.45E-02	9.10E-02
	747.13	13.10	1.68E-01		-4.33E-02	7.13E-02
ND-147	91.11	28.90	6.90E-02	6.90E-02	5.74E-02	3.30E-02
	531.02	13.10	1.48E-01		-3.48E-03	6.48E-02
PM-149	285.90	3.10	6.39E-01	6.39E-01	1.23E-01	2.96E-01
EU-152	121.78	20.50	7.34E-02	7.34E-02	4.71E-03	3.43E-02
	244.69	5.40	3.76E-01		1.15E-01	1.74E-01
	344.27	19.13	1.14E-01		-1.48E-02	5.22E-02
	778.89	9.20	2.98E-01		5.00E-02	1.30E-01
	964.01	10.40	2.79E-01		-6.71E-02	1.20E-01
	1085.78	7.22	4.56E-01		9.73E-02	1.98E-01
	1112.02	9.60	3.03E-01		8.96E-02	1.28E-01
	1407.95	14.94	2.12E-01		6.02E-02	8.81E-02
GD-153	97.43	31.30	5.05E-02	5.05E-02	2.03E-02	2.38E-02
	103.18	22.20	6.79E-02		-3.18E-02	3.19E-02
EU-154	123.07	40.50	3.71E-02	3.71E-02	1.22E-02	1.73E-02
	723.30	19.70	1.41E-01		3.92E-02	6.23E-02
	873.19	11.50	2.54E-01		4.77E-02	1.11E-01
	996.32	10.30	2.79E-01		-1.30E-02	1.20E-01
	1004.76	17.90	1.78E-01		4.01E-02	7.74E-02
	1274.45	35.50	6.86E-02		-1.05E-02	2.72E-02
EU-155	86.50	30.90	5.50E-02	5.50E-02	-4.06E-03	2.60E-02
	105.30	20.70	7.49E-02		1.53E-03	3.52E-02
EU-156	811.77	10.40	2.61E-01	2.61E-01	-7.65E-04	1.14E-01
	1153.47	7.20	3.53E-01		-1.63E-01	1.45E-01
	1230.71	8.90	2.82E-01		-9.00E-02	1.14E-01
HO-166M	184.41	72.60	3.05E-02	3.05E-02	1.16E-02	1.44E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	280.45		29.60	7.20E-02	3.05E-02	1.29E-02	3.32E-02
		410.94		11.10	1.85E-01		3.27E-02	8.31E-02
		711.69		54.10	5.39E-02		-2.43E-02	2.40E-02
	TM-171	66.72		0.14	9.37E+00	9.37E+00	3.45E+00	4.31E+00
	HF-172	81.75		4.52	2.76E-01	1.33E-01	-1.07E-01	1.28E-01
		125.81		11.30	1.33E-01		-6.50E-02	6.22E-02
	LU-172	181.53		20.60	8.48E-02	3.58E-02	-4.79E-02	3.96E-02
		810.06		16.63	1.50E-01		-6.20E-02	6.51E-02
		912.12		15.25	1.97E-01		1.61E-02	8.62E-02
		1093.66		62.50	3.58E-02		-1.27E-03	1.45E-02
	LU-173	100.72		5.24	2.95E-01	1.03E-01	-2.88E-02	1.39E-01
		272.11		21.20	1.03E-01		3.95E-02	4.77E-02
	HF-175	343.40		84.00	2.68E-02	2.68E-02	1.55E-02	1.23E-02
	LU-176	88.34		13.30	1.28E-01	2.24E-02	2.61E-02	6.07E-02
		201.83		86.00	2.24E-02		-5.80E-03	1.05E-02
		306.78		94.00	2.27E-02		1.58E-02	1.04E-02
	TA-182	67.75		41.20	2.94E-02	2.94E-02	-4.57E-03	1.35E-02
		1121.30		34.90	9.96E-02		4.34E-02	4.33E-02
		1189.05		16.23	1.80E-01		2.71E-02	7.56E-02
		1221.41		26.98	8.72E-02		-4.99E-02	3.46E-02
		1231.02		11.44	2.37E-01		2.37E-02	9.72E-02
	IR-192	308.46		29.68	7.04E-02	4.67E-02	2.83E-02	3.23E-02
		468.07		48.10	4.67E-02		1.50E-02	2.09E-02
	HG-203	279.19		77.30	2.68E-02	2.68E-02	-5.61E-03	1.24E-02
	BI-207	569.67		97.72	2.31E-02	2.31E-02	9.79E-04	1.02E-02
		1063.62		74.90	3.41E-02		-2.06E-02	1.42E-02
	TL-208	583.14		30.22	9.04E-02	9.04E-02	-1.38E-02	4.07E-02
		860.37		4.48	6.27E-01		-2.88E-01	2.73E-01
		2614.66		35.85	1.05E-01		2.23E-02	4.34E-02
	BI-210M	262.00		45.00	3.84E-02	3.84E-02	-7.40E-03	1.75E-02
		300.00		23.00	9.87E-02		1.34E-02	4.57E-02
	PB-210	46.50		4.25	1.30E+00	1.30E+00	8.80E-01	6.25E-01
	PB-211	404.84		2.90	7.59E-01	7.59E-01	4.24E-01	3.44E-01
		831.96		2.90	9.15E-01		-3.09E-02	3.96E-01
	BI-212	727.17		11.80	2.46E-01	2.46E-01	2.62E-02	1.10E-01
		1620.62		2.75	7.39E-01		1.19E-01	2.62E-01
	PB-212	238.63		44.60	5.54E-02	5.54E-02	1.92E-02	2.61E-02
		300.09		3.41	6.66E-01		9.01E-02	3.08E-01
	BI-214	609.31		46.30	7.09E-02	7.09E-02	1.45E-02	3.24E-02
		1120.29		15.10	2.17E-01		3.00E-02	9.33E-02
		1764.49		15.80	2.30E-01		6.52E-02	9.54E-02
		2204.22		4.98	5.88E-01		-9.79E-02	2.28E-01
+	PB-214	295.21		19.19	1.23E-01	6.27E-02	3.48E-02	5.72E-02
		351.92	*	37.19	6.27E-02		3.56E-02	2.88E-02
	RN-219	401.80		6.50	2.64E-01	2.64E-01	-3.73E-01	1.16E-01
	RA-223	323.87		3.88	4.94E-01	4.94E-01	-7.23E-02	2.24E-01
	RA-224	240.98		3.95	6.02E-01	6.02E-01	1.57E-01	2.83E-01
	RA-225	40.00		31.00	2.52E-01	2.52E-01	1.61E-02	1.21E-01
	RA-226	186.21		3.28	7.02E-01	7.02E-01	4.99E-01	3.32E-01
	TH-227	50.10		8.40	4.37E-01	1.82E-01	1.37E-02	2.09E-01
		236.00		11.50	1.82E-01		-1.93E-01	8.48E-02
		256.20		6.30	3.24E-01		2.10E-01	1.50E-01
	AC-228	338.32		11.40	1.92E-01	1.15E-01	3.94E-02	8.77E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	911.07		27.70	1.15E-01	1.15E-01	4.84E-02	5.06E-02
		969.11		16.60	1.50E-01		-8.40E-02	6.28E-02
	TH-230	48.44		16.90	2.52E-01	2.52E-01	-4.26E-02	1.21E-01
		62.85		4.60	3.66E-01		2.27E-01	1.71E-01
		67.67		0.37	3.28E+00		-5.11E-01	1.50E+00
	PA-231	283.67		1.60	1.32E+00	8.60E-01	2.57E-01	6.07E-01
		302.67		2.30	8.60E-01		-8.35E-01	3.93E-01
	TH-231	25.64		14.70	8.42E+00	2.05E-01	1.58E+00	4.05E+00
		84.21		6.40	2.05E-01		9.48E-02	9.55E-02
	PA-233	311.98		38.60	5.37E-02	5.37E-02	-3.51E-02	2.46E-02
	PA-234	131.20		20.40	7.26E-02	7.26E-02	-2.55E-02	3.39E-02
		733.99		8.80	3.33E-01		-6.41E-02	1.48E-01
		946.00		12.00	2.38E-01		-7.28E-02	1.02E-01
	PA-234M	1001.03		0.92	3.25E+00	3.25E+00	-1.33E+00	1.40E+00
	TH-234	63.29		3.80	4.39E-01	4.39E-01	2.73E-01	2.05E-01
	U-235	143.76		10.50	1.62E-01	1.62E-01	3.52E-02	7.61E-02
		163.35		4.70	3.64E-01		-3.75E-02	1.70E-01
		205.31		4.70	4.12E-01		-1.32E-01	1.92E-01
	NP-237	86.50		12.60	1.35E-01	1.35E-01	-9.95E-03	6.39E-02
	NP-239	106.10		22.70	6.19E-02	6.19E-02	1.10E-02	2.91E-02
		228.18		10.70	1.65E-01		8.44E-02	7.68E-02
		277.60		14.10	1.34E-01		2.85E-02	6.17E-02
	AM-241	59.54		35.90	5.02E-02	5.02E-02	2.65E-02	2.34E-02
+	AM-243	74.67	*	66.00	4.15E-02	4.15E-02	3.95E-02	2.00E-02
	CM-243	209.75		3.29	6.01E-01	1.50E-01	1.05E-01	2.80E-01
		228.14		10.60	1.86E-01		9.47E-02	8.62E-02
		277.60		14.00	1.50E-01		3.19E-02	6.91E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506043-02

BLANK

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	4	233
9:	668	1101	867	313	972	1401	146	87
17:	79	84	74	66	85	94	76	57
25:	85	70	61	72	62	64	63	72
33:	67	68	52	61	80	69	68	67
41:	60	61	69	77	86	73	110	71
49:	58	57	46	45	41	52	33	35
57:	27	15	20	37	12	16	25	28
65:	16	15	20	11	9	15	15	13
73:	23	28	40	29	30	13	16	17
81:	18	18	17	25	18	12	24	24
89:	27	19	20	39	50	18	16	19
97:	15	16	21	19	13	16	16	19
105:	16	21	12	17	15	15	13	22
113:	23	21	16	19	15	15	18	12
121:	17	18	14	10	11	15	17	16
129:	21	11	10	10	12	21	18	15
137:	19	13	20	21	16	15	15	13
145:	15	20	12	21	12	21	19	13
153:	16	17	17	18	15	19	19	25
161:	19	12	7	19	10	8	10	18
169:	18	13	16	20	18	18	16	19
177:	16	18	13	12	17	9	14	14
185:	21	41	15	15	14	6	14	12
193:	14	19	13	13	16	19	19	7
201:	13	16	18	11	12	14	9	15
209:	16	13	12	9	13	9	10	13
217:	9	18	15	9	7	16	14	20
225:	8	6	10	20	10	11	9	14
233:	11	12	6	13	14	17	29	12
241:	15	15	8	12	10	14	11	4
249:	14	6	11	12	9	10	6	12
257:	9	15	3	10	6	7	6	6
265:	11	11	9	10	6	6	10	13
273:	12	14	10	8	11	8	9	13
281:	7	13	7	11	5	12	9	16
289:	11	7	8	10	4	12	19	13
297:	10	9	5	19	10	9	9	3
305:	7	11	6	6	14	5	5	11
313:	8	12	11	12	4	4	15	6
321:	6	5	9	7	7	4	8	10
329:	7	5	9	6	5	7	4	12
337:	6	10	8	4	8	7	10	8
345:	9	5	9	7	4	3	10	24
353:	15	6	10	3	5	1	2	6
361:	6	5	4	4	4	4	2	1

369:	5	5	7	10	10	6	3	2

Sample Title: BLANK

Channel								
377:	0	9	3	6	4	5	7	5
385:	8	6	3	5	5	4	4	5
393:	5	3	7	3	3	3	8	3
401:	6	3	4	2	11	4	10	3
409:	5	8	4	5	4	1	5	5
417:	3	8	6	7	3	5	5	6
425:	5	5	8	3	3	4	5	2
433:	6	5	6	7	6	3	5	5
441:	4	6	0	4	5	5	4	10
449:	5	5	4	3	5	6	4	3
457:	7	8	6	3	6	5	7	2
465:	5	6	3	4	7	6	3	4
473:	5	4	3	4	4	4	5	5
481:	5	4	5	3	5	9	2	9
489:	7	5	2	4	0	4	4	8
497:	2	6	4	4	1	5	9	6
505:	6	2	8	4	7	25	30	26
513:	11	6	2	5	9	6	3	2
521:	7	5	3	3	9	2	5	4
529:	5	1	3	3	4	2	3	4
537:	2	2	2	8	3	4	3	2
545:	1	2	4	2	2	5	1	4
553:	3	3	2	5	3	3	6	6
561:	6	5	3	7	2	1	1	2
569:	3	5	8	8	5	6	1	5
577:	2	4	7	5	2	6	6	3
585:	2	4	3	5	2	3	8	4
593:	6	3	2	4	6	3	4	7
601:	3	5	2	6	5	2	4	7
609:	11	10	4	1	8	0	4	4
617:	3	6	5	1	2	1	4	1
625:	5	3	4	5	8	6	3	5
633:	1	3	0	2	4	3	3	3
641:	4	2	3	4	5	5	5	2
649:	3	3	4	6	4	3	7	3
657:	0	2	2	5	4	5	5	2
665:	5	3	3	3	4	2	4	5
673:	8	2	5	4	3	2	3	3
681:	0	3	4	0	2	6	5	2
689:	2	0	3	5	3	7	3	5
697:	5	4	3	1	3	5	7	3
705:	6	6	5	4	1	6	5	1
713:	4	2	4	5	2	2	3	3
721:	4	2	2	3	3	3	1	2
729:	5	5	4	3	4	1	2	7
737:	1	2	4	1	1	1	2	3
745:	2	2	3	0	1	0	3	2
753:	2	2	2	1	3	2	1	3
761:	1	5	2	0	4	3	3	6
769:	0	3	4	3	1	2	3	4
777:	1	3	2	3	1	3	2	1
785:	2	3	2	2	1	2	3	1
793:	2	1	4	3	1	1	3	0

801:	0	4	4	2	4	0	1	2

Sample Title: BLANK

Channel								
809:	2	5	2	1	1	3	5	2
817:	1	2	4	1	7	1	2	2
825:	4	2	4	2	4	2	1	1
833:	1	2	3	3	0	3	1	2
841:	4	4	1	2	2	1	2	0
849:	6	3	2	3	1	2	3	4
857:	2	1	1	2	3	3	3	5
865:	2	1	1	2	2	1	4	2
873:	2	3	2	2	1	2	1	3
881:	3	1	1	2	1	1	1	1
889:	1	2	5	2	2	1	1	3
897:	2	2	1	2	1	0	2	3
905:	1	1	2	1	2	4	3	4
913:	3	1	0	2	3	1	2	1
921:	1	0	0	0	0	4	2	0
929:	1	5	2	1	1	2	3	1
937:	1	0	4	0	4	2	1	3
945:	2	2	2	1	2	3	2	2
953:	2	2	2	1	5	2	2	4
961:	1	1	3	0	3	1	4	0
969:	4	0	0	0	6	0	0	1
977:	2	1	0	1	3	3	1	0
985:	1	1	2	1	2	3	2	0
993:	3	0	0	3	3	2	1	3
1001:	2	1	2	2	3	3	2	2
1009:	0	2	2	3	2	1	2	0
1017:	0	2	1	3	3	0	1	1
1025:	2	1	1	1	2	2	4	0
1033:	4	0	2	1	1	1	3	1
1041:	2	1	0	0	2	1	0	1
1049:	1	1	3	5	2	3	0	2
1057:	0	3	4	1	2	0	3	2
1065:	0	0	3	1	0	1	1	2
1073:	3	4	3	0	2	0	0	0
1081:	1	2	2	1	5	0	3	1
1089:	2	2	0	0	1	1	1	1
1097:	1	0	1	2	3	2	2	3
1105:	1	2	0	2	0	1	5	1
1113:	2	1	0	1	0	4	2	5
1121:	1	1	0	2	2	0	3	1
1129:	2	0	0	2	1	0	2	1
1137:	1	1	2	2	1	3	3	2
1145:	2	1	1	2	1	0	2	0
1153:	1	1	2	1	2	3	0	2
1161:	1	5	1	2	1	4	1	1
1169:	2	3	3	0	5	3	1	1
1177:	2	1	2	2	1	1	0	0
1185:	1	0	1	0	2	3	1	2
1193:	2	1	1	1	0	3	1	1
1201:	1	0	1	1	2	0	0	2
1209:	2	2	1	0	2	2	4	1
1217:	2	2	0	0	1	0	0	2
1225:	3	1	0	2	0	0	2	1

1233:	1	1	1	1	3	2	0	0

Sample Title: BLANK

Channel								
1241:	1	3	1	1	0	2	0	2
1249:	0	1	1	0	1	3	1	0
1257:	1	0	1	0	0	1	0	0
1265:	0	0	1	1	0	2	0	0
1273:	2	1	0	1	1	1	1	0
1281:	1	2	0	1	1	1	1	0
1289:	4	0	1	0	1	3	1	0
1297:	0	1	0	1	0	1	1	1
1305:	2	2	0	0	1	0	0	1
1313:	0	3	1	1	0	3	0	1
1321:	0	1	0	0	2	0	0	3
1329:	0	1	1	2	3	1	0	0
1337:	1	1	4	0	0	0	1	0
1345:	1	0	4	0	1	1	2	0
1353:	2	1	2	2	0	0	1	1
1361:	4	5	0	1	1	1	1	0
1369:	2	1	0	2	0	1	1	1
1377:	2	1	1	1	1	1	0	0
1385:	0	1	0	2	1	1	0	1
1393:	1	0	1	0	1	1	0	1
1401:	2	0	1	0	2	2	1	3
1409:	0	0	0	1	1	0	1	1
1417:	1	2	0	1	0	1	0	2
1425:	1	0	1	2	1	0	2	0
1433:	1	1	2	1	1	1	1	1
1441:	1	2	1	0	0	0	1	0
1449:	0	1	1	1	1	0	1	0
1457:	1	2	2	3	3	1	2	1
1465:	4	3	0	0	1	1	1	1
1473:	1	1	2	1	0	2	1	1
1481:	2	0	0	0	3	0	2	0
1489:	0	2	2	2	1	2	0	1
1497:	1	2	0	0	0	0	0	2
1505:	0	1	2	1	1	1	0	0
1513:	1	0	1	0	0	1	0	1
1521:	0	1	0	1	3	1	0	0
1529:	1	0	0	2	2	0	1	1
1537:	1	0	0	0	0	2	3	0
1545:	1	0	0	2	2	0	0	0
1553:	1	3	3	0	0	0	0	1
1561:	1	0	1	1	1	1	0	0
1569:	2	1	0	1	1	1	0	0
1577:	0	1	3	1	0	5	1	0
1585:	0	1	0	2	2	0	1	2
1593:	1	1	0	0	0	1	0	0
1601:	0	0	0	0	0	2	0	0
1609:	0	1	0	2	1	0	0	0
1617:	0	0	0	0	0	0	0	2
1625:	0	1	0	1	1	0	0	0
1633:	0	0	0	2	1	0	0	0
1641:	1	0	1	0	0	1	0	0
1649:	1	1	2	0	0	1	0	1
1657:	1	0	0	0	1	0	0	0

1665:	2	0	1	0	1	0	0	0

Sample Title: BLANK

Channel								
1673:	2	0	0	1	0	1	3	0
1681:	1	0	0	2	0	0	1	0
1689:	0	1	0	0	0	0	0	2
1697:	0	1	0	0	2	0	0	1
1705:	1	1	1	0	1	0	1	0
1713:	0	0	1	3	0	1	0	2
1721:	0	0	1	0	0	0	0	1
1729:	0	0	1	1	1	1	1	1
1737:	2	1	0	1	2	0	2	1
1745:	0	1	0	1	0	0	0	1
1753:	1	0	0	2	0	1	1	0
1761:	2	1	1	2	1	0	0	1
1769:	0	0	0	0	1	0	0	0
1777:	0	3	0	2	2	0	0	0
1785:	0	0	0	1	0	1	2	0
1793:	0	0	0	1	1	0	1	0
1801:	1	0	0	0	0	2	0	1
1809:	0	0	0	0	1	0	0	0
1817:	0	0	0	0	0	0	0	0
1825:	0	0	1	0	0	0	0	2
1833:	1	2	0	0	0	0	0	1
1841:	1	0	0	1	0	0	1	0
1849:	0	1	1	0	1	1	0	1
1857:	1	0	1	0	0	1	1	1
1865:	1	2	0	2	0	0	0	1
1873:	1	0	2	1	1	0	1	0
1881:	1	1	0	0	0	1	0	0
1889:	0	1	1	0	0	0	1	1
1897:	0	2	0	0	0	0	1	0
1905:	1	1	1	1	0	0	0	2
1913:	2	0	0	0	1	0	1	0
1921:	0	1	0	1	0	1	0	0
1929:	1	1	1	0	0	0	0	0
1937:	0	1	0	0	1	2	1	1
1945:	0	0	1	0	0	0	0	0
1953:	1	1	0	1	0	1	1	2
1961:	0	0	0	2	0	0	0	0
1969:	0	0	1	0	0	1	1	2
1977:	0	1	0	0	1	0	1	1
1985:	0	0	0	0	0	1	0	2
1993:	1	0	0	0	0	1	2	2
2001:	0	0	1	0	1	1	0	0
2009:	0	0	0	1	0	1	1	0
2017:	0	2	2	1	0	0	0	1
2025:	1	0	1	1	1	0	0	0
2033:	0	0	0	0	0	0	0	0
2041:	0	0	0	0	0	0	0	1
2049:	1	0	0	0	0	1	2	1
2057:	0	0	0	0	0	1	0	0
2065:	1	0	0	0	2	0	2	0
2073:	0	0	0	1	0	1	0	0
2081:	1	0	0	0	0	1	2	0
2089:	1	1	0	0	1	0	0	1

2097:	0	0	0	2	0	1	0	1

Sample Title: BLANK

Channel								
2105:	2	1	0	1	1	0	0	0
2113:	0	1	0	0	0	0	0	0
2121:	1	0	1	0	1	1	0	0
2129:	0	0	1	0	0	0	1	0
2137:	0	0	0	0	0	0	1	0
2145:	0	0	0	0	0	0	0	1
2153:	0	0	0	0	0	0	0	1
2161:	0	0	0	0	0	0	1	0
2169:	1	0	1	1	1	0	0	0
2177:	0	0	0	0	0	0	0	0
2185:	1	0	0	0	1	0	0	1
2193:	0	0	0	0	0	2	0	0
2201:	0	1	0	2	0	0	1	0
2209:	1	1	0	1	0	0	1	0
2217:	0	1	0	1	0	1	1	1
2225:	0	0	1	0	1	0	0	0
2233:	0	0	0	0	0	0	1	1
2241:	0	0	0	1	0	0	0	0
2249:	0	0	0	0	0	0	0	0
2257:	1	0	0	0	0	0	0	1
2265:	0	1	0	0	1	0	1	0
2273:	1	1	0	0	1	1	0	0
2281:	0	0	0	0	0	0	0	0
2289:	0	1	0	0	0	1	0	0
2297:	0	0	1	1	0	1	0	0
2305:	0	2	0	0	1	0	0	2
2313:	0	0	2	0	0	1	1	1
2321:	1	0	0	0	0	1	0	0
2329:	0	0	1	0	1	1	1	0
2337:	0	0	1	0	0	0	1	1
2345:	0	0	1	0	0	0	0	0
2353:	1	0	0	0	1	0	0	2
2361:	1	0	0	2	0	0	0	1
2369:	0	1	0	0	1	0	0	0
2377:	0	0	0	0	0	1	1	0
2385:	1	0	1	1	0	0	1	0
2393:	1	1	0	0	0	1	0	2
2401:	1	0	0	1	0	0	1	0
2409:	0	1	0	0	0	0	1	0
2417:	0	1	0	1	1	1	1	1
2425:	0	0	0	0	0	0	0	1
2433:	1	0	0	1	0	0	1	0
2441:	0	0	1	0	0	1	0	1
2449:	2	0	0	2	0	0	1	1
2457:	0	0	0	0	0	0	1	0
2465:	1	0	0	0	1	0	0	0
2473:	1	0	0	1	0	0	1	1
2481:	0	0	0	1	0	1	0	0
2489:	0	0	0	0	0	0	0	0
2497:	1	1	0	0	0	1	1	0
2505:	0	0	0	0	0	0	1	0
2513:	0	0	0	0	0	1	0	0
2521:	1	0	0	0	0	0	1	0

2529:	0	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
2537:	0	0	0	0	0	0	0	1
2545:	0	0	0	0	0	1	0	0
2553:	0	1	0	0	0	0	0	0
2561:	0	1	0	0	1	0	0	0
2569:	1	0	1	0	1	1	0	0
2577:	0	0	0	0	0	0	0	0
2585:	0	0	2	0	0	0	1	0
2593:	0	3	0	0	1	2	0	1
2601:	1	0	0	0	0	1	1	2
2609:	0	0	0	1	0	3	2	1
2617:	1	0	0	0	0	0	0	0
2625:	1	0	0	0	1	0	1	0
2633:	0	0	1	0	0	0	0	1
2641:	0	0	1	0	0	1	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	0	0	0	0	0	0	0
2665:	0	0	0	0	0	0	1	0
2673:	0	0	0	0	0	1	0	0
2681:	0	0	0	1	0	0	0	0
2689:	0	0	1	0	0	1	0	0
2697:	0	0	0	0	0	0	0	0
2705:	0	0	0	0	0	0	0	2
2713:	0	0	0	0	0	1	0	0
2721:	0	0	0	0	0	0	1	0
2729:	0	0	0	0	0	0	0	0
2737:	1	0	0	0	0	0	1	1
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	0	0	1	0
2761:	0	0	0	1	1	0	0	0
2769:	0	0	0	0	1	1	0	0
2777:	0	1	0	0	0	0	0	0
2785:	0	0	1	0	3	1	0	0
2793:	0	0	1	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	1	1	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	1	1	0	0	0	1	1
2833:	1	0	1	1	0	0	0	0
2841:	1	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	2
2857:	0	0	0	0	0	0	1	0
2865:	0	0	0	0	0	1	2	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	0	2	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	1	0	0	1	1
2905:	0	0	0	0	1	0	1	0
2913:	0	1	1	0	1	1	0	0
2921:	0	0	0	0	0	0	1	1
2929:	0	0	0	0	0	0	1	1
2937:	0	0	0	0	0	0	0	0
2945:	0	1	0	0	0	0	0	0
2953:	0	0	0	0	0	2	0	0

2961:	0	0	1	0	0	2	0	0

Sample Title: BLANK

Channel								
2969:	1	0	0	0	1	0	0	0
2977:	1	0	0	0	1	1	1	0
2985:	0	0	0	0	0	0	0	0
2993:	0	1	0	0	0	0	0	0
3001:	0	0	0	0	1	0	0	0
3009:	1	0	0	0	0	0	0	0
3017:	0	0	0	0	1	0	0	0
3025:	0	0	0	0	1	2	0	0
3033:	0	0	0	0	0	0	1	2
3041:	0	0	1	0	0	0	0	0
3049:	0	0	0	0	0	0	1	0
3057:	0	0	0	0	1	0	0	0
3065:	0	0	0	0	0	2	1	0
3073:	0	0	0	1	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	1	0	2	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	1	0	0	0	0	0	0	0
3137:	0	1	0	0	1	0	0	1
3145:	0	0	1	0	0	0	0	0
3153:	0	0	0	0	0	1	0	0
3161:	0	0	0	0	0	3	0	0
3169:	0	0	1	0	0	0	0	1
3177:	0	0	0	0	0	0	0	0
3185:	0	1	0	0	0	0	1	0
3193:	0	0	0	0	0	0	0	0
3201:	0	1	0	1	0	1	0	0
3209:	0	2	0	0	0	0	1	0
3217:	0	0	0	0	0	1	0	0
3225:	0	0	0	0	0	0	0	0
3233:	1	1	0	0	0	0	0	0
3241:	0	0	0	0	0	1	0	0
3249:	1	0	0	0	0	0	0	0
3257:	0	0	0	1	0	0	0	0
3265:	0	0	1	1	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	1
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	1	0
3305:	0	0	1	0	1	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	1	0	0	1
3329:	0	0	0	0	0	0	0	0
3337:	1	1	0	0	0	0	0	0
3345:	1	0	0	0	1	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	1	0	1	0	0	1	0	0
3369:	0	0	0	1	0	0	1	0
3377:	0	1	0	1	0	0	0	0
3385:	0	0	0	0	0	2	0	0

3393:	0	0	0	1	0	1	0	0

Sample Title: BLANK

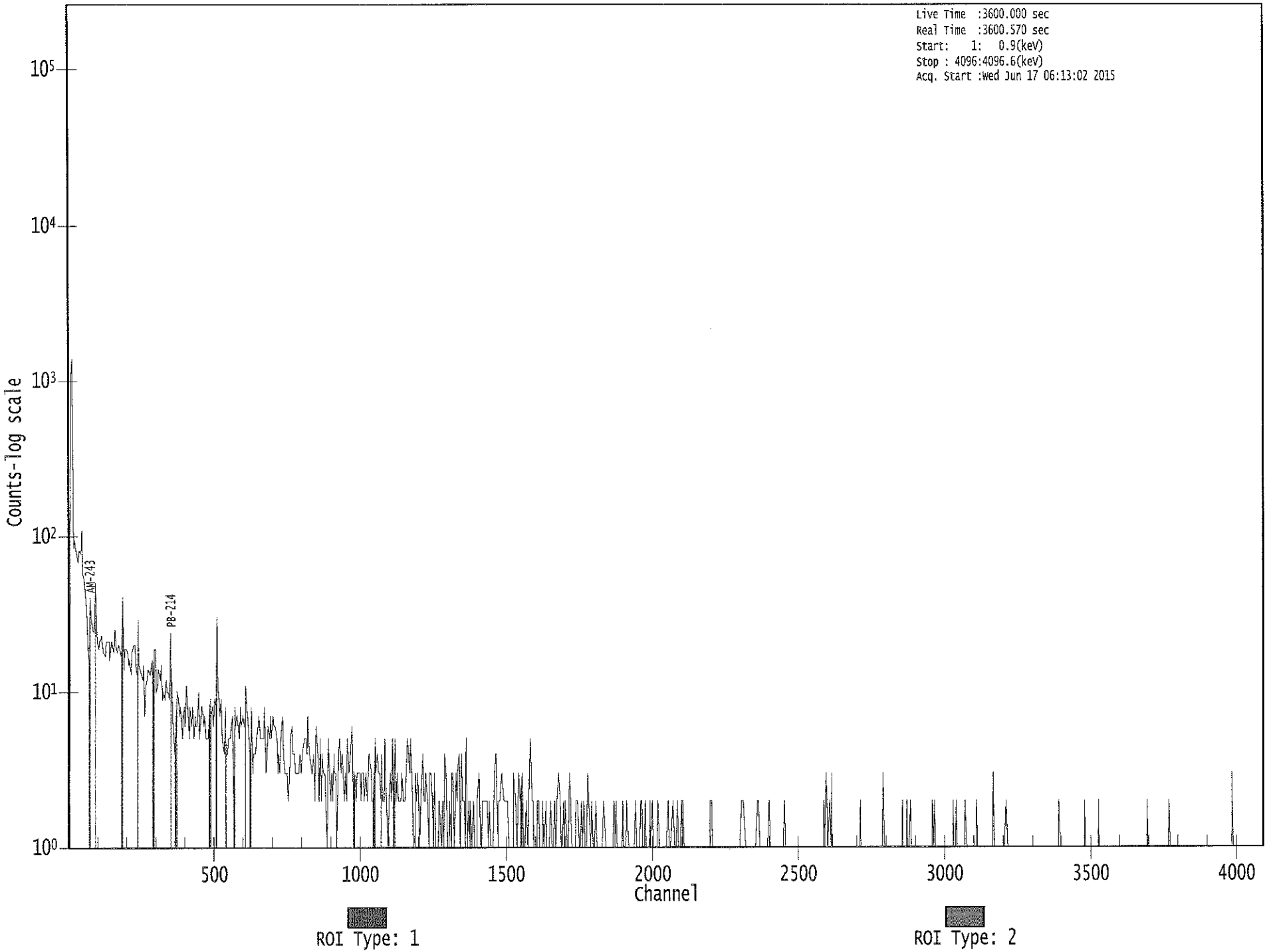
Channel								
3401:	0	0	0	0	1	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	1	0
3433:	1	0	0	0	1	0	0	0
3441:	0	0	0	0	1	0	0	0
3449:	0	0	0	0	1	0	1	0
3457:	1	0	1	1	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	0	0	0	0	0	2	0
3481:	0	0	1	0	0	0	0	0
3489:	1	1	0	0	1	0	0	0
3497:	1	0	0	0	0	0	0	0
3505:	0	0	0	1	0	0	0	0
3513:	0	0	0	1	1	0	0	1
3521:	0	0	0	0	0	0	2	0
3529:	1	0	0	0	0	0	0	1
3537:	0	0	0	0	0	0	1	1
3545:	0	0	0	0	0	0	1	0
3553:	0	0	0	0	0	1	0	0
3561:	0	1	0	0	0	1	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	1	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	1
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	1
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	1	0	0	0
3625:	0	0	0	0	0	0	0	1
3633:	0	0	0	0	0	0	1	0
3641:	0	0	0	0	0	0	0	0
3649:	0	1	0	0	0	0	0	0
3657:	0	0	0	1	0	0	0	0
3665:	0	1	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	1	2	0	0
3697:	0	0	0	0	0	1	0	0
3705:	0	0	0	0	1	0	1	1
3713:	0	0	0	0	0	1	0	0
3721:	0	0	0	0	0	0	1	1
3729:	0	0	1	0	0	0	1	0
3737:	0	0	0	1	0	1	0	0
3745:	0	0	0	1	0	0	0	0
3753:	0	0	0	0	0	0	1	0
3761:	0	1	0	0	0	0	1	0
3769:	2	0	0	0	1	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	1	0	0	0	0	0	0
3793:	1	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	1
3809:	0	0	0	0	0	0	0	0
3817:	0	0	1	0	1	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	1	0	0	1	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	1	0	0
3881:	0	0	0	1	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	1	0	0	1	0	0	0	0
3905:	1	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	1	1	0	0	0
3929:	0	0	1	1	0	1	0	0
3937:	0	0	0	0	0	0	1	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	1	0	1	1
3961:	0	1	0	0	0	0	0	0
3969:	1	1	0	0	0	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	3	0	1	0	0	0	0	0
3993:	0	0	1	0	1	0	0	1
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	1	0	0	0	1	0	0	0
4041:	0	0	0	0	0	0	0	1
4049:	0	0	0	0	0	0	0	1
4057:	0	0	0	0	1	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	1	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	1
4089:	0	0	0	0	0	0	0	0

0000023537.CNF



Apex-Gamma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

6/17

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-03
Sample Description	: FEEBRISID-09-088-089
Sample Type	: SOIL
Sample Size	: 3.300E+02 grams
Facility	: Countroom
Sample Taken On	: 6/11/2015 3:22:25PM
Acquisition Started	: 6/17/2015 6:12:51AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3603.6 seconds
Dead Time	: 0.10 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23536

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
6/17/15

Analysis Report for 1506043-03

FEEBRISID-09-088-089

PEAK LOCATE REPORT

Peak Locate Performed on : 6/17/2015 7:12:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.39	27.75	0.0000	0.00
2	32.11	32.46	0.0000	0.00
3	46.62	46.97	0.0000	0.00
4	63.82	64.16	0.0000	0.00
5	67.83	68.17	0.0000	0.00
6	75.07	75.41	0.0000	0.00
7	77.30	77.64	0.0000	0.00
8	84.03	84.37	0.0000	0.00
9	88.29	88.63	0.0000	0.00
10	95.17	95.51	0.0000	0.00
11	122.03	122.35	0.0000	0.00
12	144.14	144.46	0.0000	0.00
13	154.30	154.62	0.0000	0.00
14	186.22	186.52	0.0000	0.00
15	211.09	211.39	0.0000	0.00
16	220.25	220.54	0.0000	0.00
17	235.99	236.28	0.0000	0.00
18	238.91	239.20	0.0000	0.00
19	242.09	242.38	0.0000	0.00
20	255.48	255.76	0.0000	0.00
21	259.22	259.50	0.0000	0.00
22	270.36	270.63	0.0000	0.00
23	284.94	285.21	0.0000	0.00
24	295.31	295.58	0.0000	0.00
25	299.68	299.95	0.0000	0.00
26	303.14	303.40	0.0000	0.00
27	313.82	314.08	0.0000	0.00
28	323.73	323.98	0.0000	0.00
29	329.63	329.89	0.0000	0.00
30	338.52	338.77	0.0000	0.00
31	351.89	352.14	0.0000	0.00
32	387.24	387.47	0.0000	0.00
33	401.67	401.90	0.0000	0.00
34	404.83	405.06	0.0000	0.00
35	423.30	423.53	0.0000	0.00
36	426.90	427.13	0.0000	0.00
37	445.14	445.36	0.0000	0.00
38	511.07	511.26	0.0000	0.00
39	533.48	533.66	0.0000	0.00
40	562.33	562.50	0.0000	0.00
41	579.85	580.02	0.0000	0.00
42	583.20	583.37	0.0000	0.00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	609.30	609.46	0.0000	0.00
44	665.55	665.69	0.0000	0.00
45	768.21	768.31	0.0000	0.00
46	773.50	773.60	0.0000	0.00
47	785.79	785.89	0.0000	0.00
48	806.76	806.85	0.0000	0.00
49	831.91	832.00	0.0000	0.00
50	838.73	838.81	0.0000	0.00
51	933.64	933.69	0.0000	0.00
52	948.86	948.90	0.0000	0.00
53	962.44	962.48	0.0000	0.00
54	1051.46	1051.46	0.0000	0.00
55	1120.24	1120.22	0.0000	0.00
56	1133.29	1133.27	0.0000	0.00
57	1154.97	1154.94	0.0000	0.00
58	1234.06	1234.00	0.0000	0.00
59	1237.92	1237.86	0.0000	0.00
60	1244.96	1244.90	0.0000	0.00
61	1280.31	1280.23	0.0000	0.00
62	1306.77	1306.68	0.0000	0.00
63	1377.54	1377.43	0.0000	0.00
64	1386.36	1386.25	0.0000	0.00
65	1401.02	1400.90	0.0000	0.00
66	1407.89	1407.76	0.0000	0.00
67	1461.27	1461.13	0.0000	0.00
68	1509.26	1509.10	0.0000	0.00
69	1542.50	1542.33	0.0000	0.00
70	1567.62	1567.44	0.0000	0.00
71	1579.93	1579.74	0.0000	0.00
72	1584.19	1584.00	0.0000	0.00
73	1601.45	1601.26	0.0000	0.00
74	1620.90	1620.70	0.0000	0.00
75	1643.70	1643.49	0.0000	0.00
76	1660.67	1660.45	0.0000	0.00
77	1682.29	1682.06	0.0000	0.00
78	1729.35	1729.11	0.0000	0.00
79	1764.26	1764.00	0.0000	0.00
80	1813.81	1813.54	0.0000	0.00
81	1835.28	1835.00	0.0000	0.00
82	1847.11	1846.83	0.0000	0.00
83	2010.02	2009.67	0.0000	0.00
84	2080.50	2080.13	0.0000	0.00
85	2118.19	2117.80	0.0000	0.00
86	2203.73	2203.31	0.0000	0.00
87	2292.93	2292.47	0.0000	0.00
88	2322.47	2322.00	0.0000	0.00
89	2447.20	2446.68	0.0000	0.00
90	2614.11	2613.53	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 7:12:58AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	27.39	26 -	30	27.75	2.69E+02	99.47	1.96E+03	1.90
	2	32.11	31 -	36	32.46	2.21E+02	120.57	2.77E+03	1.85
	3	46.62	43 -	49	46.97	1.84E+03	179.45	4.52E+03	1.27
M	4	63.82	61 -	71	64.16	6.28E+02	172.46	5.37E+03	2.78
m	5	67.83	61 -	71	68.17	3.42E+03	170.26	3.78E+03	1.47
M	6	75.07	73 -	80	75.41	1.52E+03	191.38	5.78E+03	1.77
m	7	77.30	73 -	80	77.64	2.21E+03	177.52	5.31E+03	1.28
	8	84.03	83 -	86	84.37	1.13E+03	155.50	4.78E+03	1.50
	9	88.29	87 -	92	88.63	7.63E+02	172.57	5.21E+03	1.21
	10	95.17	92 -	100	95.51	6.33E+02	204.24	5.90E+03	1.42
	11	122.03	120 -	125	122.35	1.86E+02	112.45	2.39E+03	2.73
	12	144.14	141 -	148	144.46	6.54E+02	161.93	3.94E+03	1.88
	13	154.30	152 -	158	154.62	3.37E+02	138.17	3.22E+03	1.58
	14	186.22	182 -	190	186.52	1.20E+03	164.76	3.43E+03	1.94
	15	211.09	209 -	214	211.39	1.11E+02	92.50	1.63E+03	3.32
	16	220.25	218 -	223	220.54	8.91E+01	86.76	1.43E+03	2.57
M	17	235.99	232 -	245	236.28	6.07E+02	87.34	1.15E+03	1.73
m	18	238.91	232 -	245	239.20	2.38E+02	101.09	1.35E+03	2.03
m	19	242.09	232 -	245	242.38	1.41E+03	110.40	1.31E+03	1.84
M	20	255.48	251 -	262	255.76	4.42E+02	125.61	1.97E+03	3.30
m	21	259.22	251 -	262	259.50	7.81E+01	74.21	9.91E+02	1.79
M	22	270.36	266 -	289	270.63	1.14E+03	116.65	1.54E+03	2.75
m	23	284.94	266 -	289	285.21	1.91E+02	98.37	1.38E+03	2.78
M	24	295.31	291 -	307	295.58	3.06E+03	125.54	7.85E+02	1.59
m	25	299.68	291 -	307	299.95	2.40E+02	79.65	8.65E+02	2.10
m	26	303.14	291 -	307	303.40	1.62E+02	77.07	8.50E+02	2.11
	27	313.82	311 -	317	314.08	7.79E+01	69.53	8.28E+02	3.68
M	28	323.73	321 -	333	323.98	1.44E+02	62.59	7.28E+02	1.76
m	29	329.63	321 -	333	329.89	1.73E+02	64.01	8.04E+02	1.66
	30	338.52	336 -	342	338.77	1.16E+02	77.91	1.01E+03	1.57
	31	351.89	347 -	356	352.14	5.49E+03	177.24	1.35E+03	1.73
	32	387.24	383 -	391	387.47	1.50E+02	77.97	8.46E+02	5.65
M	33	401.67	399 -	408	401.90	2.34E+02	57.15	5.56E+02	1.83
m	34	404.83	399 -	408	405.06	1.35E+02	60.81	5.58E+02	1.83
M	35	423.30	421 -	431	423.53	7.05E+01	47.51	4.35E+02	2.42
m	36	426.90	421 -	431	427.13	9.38E+01	63.54	6.35E+02	2.44
	37	445.14	442 -	449	445.36	6.88E+01	60.17	5.60E+02	1.64
	38	511.07	507 -	516	511.26	1.45E+02	68.30	5.79E+02	2.79
	39	533.48	530 -	538	533.66	5.87E+01	58.96	4.97E+02	4.84
	40	562.33	560 -	566	562.50	3.66E+01	42.59	3.01E+02	3.43

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	579.85	578 -	587	580.02	3.03E+01	27.86	1.70E+02	1.99
m	42	583.20	578 -	587	583.37	7.59E+01	40.78	2.48E+02	2.16
	43	609.30	604 -	614	609.46	3.54E+03	136.30	5.89E+02	2.03
	44	665.55	662 -	668	665.69	5.42E+01	42.04	2.98E+02	1.94
M	45	768.21	762 -	778	768.31	3.69E+02	52.31	2.32E+02	2.28
m	46	773.50	762 -	778	773.60	3.32E+01	37.58	1.88E+02	2.29
	47	785.79	782 -	789	785.89	6.54E+01	41.81	2.47E+02	2.59
	48	806.76	802 -	811	806.85	6.62E+01	51.90	3.40E+02	1.43
M	49	831.91	828 -	847	832.00	7.16E+01	35.30	1.83E+02	2.11
m	50	838.73	828 -	847	838.81	6.07E+01	34.50	1.88E+02	2.12
	51	933.64	928 -	938	933.69	2.08E+02	55.29	2.97E+02	1.99
	52	948.86	946 -	952	948.90	2.81E+01	30.77	1.54E+02	3.44
	53	962.44	957 -	967	962.48	6.31E+01	45.46	2.42E+02	2.09
	54	1051.46	1048 -	1055	1051.46	2.99E+01	33.29	1.66E+02	2.09
	55	1120.24	1116 -	1125	1120.22	7.56E+02	68.40	2.40E+02	1.93
	56	1133.29	1127 -	1140	1133.27	4.77E+01	54.41	3.07E+02	6.57
	57	1154.97	1149 -	1159	1154.94	8.07E+01	49.65	2.85E+02	2.97
M	58	1234.06	1233 -	1242	1234.00	1.58E+01	11.70	3.97E+01	2.11
m	59	1237.92	1233 -	1242	1237.86	2.76E+02	42.72	1.30E+02	2.32
	60	1244.96	1243 -	1247	1244.90	2.22E+01	19.87	6.57E+01	2.53
	61	1280.31	1275 -	1285	1280.23	8.25E+01	39.59	1.65E+02	2.35
	62	1306.77	1304 -	1310	1306.68	2.27E+01	22.93	7.67E+01	3.80
	63	1377.54	1373 -	1381	1377.43	1.93E+02	40.19	1.29E+02	2.24
	64	1386.36	1382 -	1391	1386.25	5.26E+01	30.07	9.69E+01	6.64
	65	1401.02	1396 -	1404	1400.90	3.16E+01	32.99	1.47E+02	1.79
	66	1407.89	1404 -	1411	1407.76	1.18E+02	34.58	1.21E+02	2.58
	67	1461.27	1456 -	1471	1461.13	1.23E+02	50.12	2.09E+02	2.35
	68	1509.26	1505 -	1513	1509.10	8.20E+01	37.05	1.58E+02	3.26
	69	1542.50	1533 -	1553	1542.33	8.61E+01	53.20	1.96E+02	14.70
	70	1567.62	1562 -	1572	1567.44	5.58E+01	23.45	4.23E+01	5.09
M	71	1579.93	1578 -	1607	1579.74	3.00E+01	10.34	1.80E+01	2.98
m	72	1584.19	1578 -	1607	1584.00	3.09E+01	21.24	4.20E+01	2.24
m	73	1601.45	1578 -	1607	1601.26	2.08E+01	21.98	5.40E+01	2.99
	74	1620.90	1614 -	1628	1620.70	2.76E+01	31.99	9.08E+01	8.27
	75	1643.70	1641 -	1647	1643.49	1.19E+01	15.96	3.61E+01	2.71
	76	1660.67	1657 -	1663	1660.45	3.14E+01	17.27	3.12E+01	1.97
	77	1682.29	1678 -	1686	1682.06	2.35E+01	19.66	4.50E+01	3.57
	78	1729.35	1724 -	1733	1729.11	1.45E+02	31.62	6.00E+01	2.51
	79	1764.26	1759 -	1771	1764.00	6.03E+02	53.85	5.40E+01	2.60
	80	1813.81	1811 -	1817	1813.54	7.93E+00	10.25	1.21E+01	4.39
M	81	1835.28	1833 -	1852	1835.00	9.83E+00	9.12	1.02E+01	2.33
m	82	1847.11	1833 -	1852	1846.83	8.72E+01	22.09	2.11E+01	2.57
	83	2010.02	2005 -	2014	2009.67	1.70E+01	14.42	2.00E+01	3.20
	84	2080.50	2078 -	2082	2080.13	8.00E+00	5.66	0.00E+00	2.59
	85	2118.19	2112 -	2121	2117.80	4.30E+01	17.66	2.00E+01	2.29
	86	2203.73	2198 -	2207	2203.31	1.53E+02	29.87	4.08E+01	1.75
	87	2292.93	2289 -	2295	2292.47	1.06E+01	8.97	6.86E+00	1.47
	88	2322.47	2318 -	2325	2322.00	1.20E+01	6.93	0.00E+00	1.08
	89	2447.20	2443 -	2450	2446.68	5.00E+01	14.14	0.00E+00	2.63
	90	2614.11	2610 -	2616	2613.53	2.83E+01	11.50	3.47E+00	3.28

Analysis Report for 1506043-03

FEEBRISID-09-088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 7:12:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	27.39	26 -	30	2.69E+02	99.47	1.96E+03	7.72E+01
	2	32.11	31 -	36	2.21E+02	120.57	2.77E+03	9.60E+01
	3	46.62	43 -	49	1.84E+03	179.45	4.52E+03	1.30E+02
M	4	63.82	61 -	71	6.28E+02	172.46	5.37E+03	1.20E+02
m	5	67.83	61 -	71	3.42E+03	170.26	3.78E+03	1.01E+02
M	6	75.07	73 -	80	1.52E+03	191.38	5.78E+03	1.25E+02
m	7	77.30	73 -	80	2.21E+03	177.52	5.31E+03	1.20E+02
	8	84.03	83 -	86	1.13E+03	155.50	4.78E+03	1.15E+02
	9	88.29	87 -	92	7.63E+02	172.57	5.21E+03	1.34E+02
	10	95.17	92 -	100	6.33E+02	204.24	5.90E+03	1.63E+02
	11	122.03	120 -	125	1.86E+02	112.45	2.39E+03	8.97E+01
	12	144.14	141 -	148	6.54E+02	161.93	3.94E+03	1.26E+02
	13	154.30	152 -	158	3.37E+02	138.17	3.22E+03	1.09E+02
	14	186.22	182 -	190	1.20E+03	164.76	3.43E+03	1.23E+02
	15	211.09	209 -	214	1.11E+02	92.50	1.63E+03	7.40E+01
	16	220.25	218 -	223	8.91E+01	86.76	1.43E+03	6.96E+01
M	17	235.99	232 -	245	6.07E+02	87.34	1.15E+03	5.56E+01
m	18	238.91	232 -	245	2.38E+02	101.09	1.35E+03	6.05E+01
m	19	242.09	232 -	245	1.41E+03	110.40	1.31E+03	5.95E+01
M	20	255.48	251 -	262	4.42E+02	125.61	1.97E+03	7.29E+01
m	21	259.22	251 -	262	7.81E+01	74.21	9.91E+02	5.18E+01
M	22	270.36	266 -	289	1.14E+03	116.65	1.54E+03	6.46E+01
m	23	284.94	266 -	289	1.91E+02	98.37	1.38E+03	6.10E+01
M	24	295.31	291 -	307	3.06E+03	125.54	7.85E+02	4.61E+01
m	25	299.68	291 -	307	2.40E+02	79.65	8.65E+02	4.83E+01
m	26	303.14	291 -	307	1.62E+02	77.07	8.50E+02	4.79E+01
	27	313.82	311 -	317	7.79E+01	69.53	8.28E+02	5.53E+01
M	28	323.73	321 -	333	1.44E+02	62.59	7.28E+02	4.44E+01
m	29	329.63	321 -	333	1.73E+02	64.01	8.04E+02	4.66E+01
	30	338.52	336 -	342	1.16E+02	77.91	1.01E+03	6.15E+01
	31	351.89	347 -	356	5.49E+03	177.24	1.35E+03	7.99E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	32	387.24	383 -	391	1.50E+02	77.97	8.46E+02	6.08E+01
M	33	401.67	399 -	408	2.34E+02	57.15	5.56E+02	3.88E+01
m	34	404.83	399 -	408	1.35E+02	60.81	5.58E+02	3.88E+01
M	35	423.30	421 -	431	7.05E+01	47.51	4.35E+02	3.43E+01
m	36	426.90	421 -	431	9.38E+01	63.54	6.35E+02	4.14E+01
	37	445.14	442 -	449	6.88E+01	60.17	5.60E+02	4.75E+01
	38	511.07	507 -	516	1.45E+02	68.30	5.79E+02	5.25E+01
	39	533.48	530 -	538	5.87E+01	58.96	4.97E+02	4.68E+01
	40	562.33	560 -	566	3.66E+01	42.59	3.01E+02	3.36E+01
M	41	579.85	578 -	587	3.03E+01	27.86	1.70E+02	2.14E+01
m	42	583.20	578 -	587	7.59E+01	40.78	2.48E+02	2.59E+01
	43	609.30	604 -	614	3.54E+03	136.30	5.89E+02	5.46E+01
	44	665.55	662 -	668	5.42E+01	42.04	2.98E+02	4.88E+01
M	45	768.21	762 -	778	3.69E+02	52.31	2.32E+02	2.50E+01
m	46	773.50	762 -	778	3.32E+01	37.58	1.88E+02	2.26E+01
	47	785.79	782 -	789	6.54E+01	41.81	2.47E+02	3.17E+01
	48	806.76	802 -	811	6.62E+01	51.90	3.40E+02	4.05E+01
M	49	831.91	828 -	847	7.16E+01	35.30	1.83E+02	2.22E+01
m	50	838.73	828 -	847	6.07E+01	34.50	1.88E+02	2.25E+01
	51	933.64	928 -	938	2.08E+02	55.29	2.97E+02	3.88E+01
	52	948.86	946 -	952	2.81E+01	30.77	1.54E+02	2.37E+01
	53	962.44	957 -	967	6.31E+01	45.46	2.42E+02	3.50E+01
	54	1051.46	1048 -	1055	2.99E+01	33.29	1.66E+02	2.58E+01
	55	1120.24	1116 -	1125	7.56E+02	68.40	2.40E+02	3.34E+01
	56	1133.29	1127 -	1140	4.77E+01	54.41	3.07E+02	4.33E+01
	57	1154.97	1149 -	1159	8.07E+01	49.65	2.85E+02	3.80E+01
M	58	1234.06	1233 -	1242	1.58E+01	11.70	3.97E+01	1.04E+01
m	59	1237.92	1233 -	1242	2.76E+02	42.72	1.30E+02	1.88E+01
	60	1244.96	1243 -	1247	2.22E+01	19.87	6.57E+01	1.44E+01
	61	1280.31	1275 -	1285	8.25E+01	39.59	1.65E+02	2.89E+01
	62	1306.77	1304 -	1310	2.27E+01	22.93	7.67E+01	1.71E+01
	63	1377.54	1373 -	1381	1.93E+02	40.19	1.29E+02	2.39E+01
	64	1386.36	1382 -	1391	5.26E+01	30.07	9.69E+01	2.17E+01
	65	1401.02	1396 -	1404	3.16E+01	32.99	1.47E+02	2.55E+01
	66	1407.89	1404 -	1411	1.18E+02	34.58	1.21E+02	2.21E+01
	67	1461.27	1456 -	1471	1.23E+02	50.12	2.09E+02	1.62E+01
	68	1509.26	1505 -	1513	8.20E+01	37.05	1.58E+02	2.66E+01
	69	1542.50	1533 -	1553	8.61E+01	53.20	1.96E+02	4.10E+01
	70	1567.62	1562 -	1572	5.58E+01	23.45	4.23E+01	1.49E+01
M	71	1579.93	1578 -	1607	3.00E+01	10.34	1.80E+01	6.97E+00
m	72	1584.19	1578 -	1607	3.09E+01	21.24	4.20E+01	1.07E+01
m	73	1601.45	1578 -	1607	2.08E+01	21.98	5.40E+01	1.21E+01
	74	1620.90	1614 -	1628	2.76E+01	31.99	9.08E+01	2.48E+01
	75	1643.70	1641 -	1647	1.19E+01	15.96	3.61E+01	1.18E+01
	76	1660.67	1657 -	1663	3.14E+01	17.27	3.12E+01	1.08E+01
	77	1682.29	1678 -	1686	2.35E+01	19.66	4.50E+01	1.41E+01
	78	1729.35	1724 -	1733	1.45E+02	31.62	6.00E+01	1.68E+01
	79	1764.26	1759 -	1771	6.03E+02	53.85	5.40E+01	1.82E+01
	80	1813.81	1811 -	1817	7.93E+00	10.25	1.21E+01	7.04E+00
M	81	1835.28	1833 -	1852	9.83E+00	9.12	1.02E+01	5.25E+00
m	82	1847.11	1833 -	1852	8.72E+01	22.09	2.11E+01	7.54E+00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
83	2010.02	2005 -	2014	1.70E+01	14.42	2.00E+01	9.73E+00
84	2080.50	2078 -	2082	8.00E+00	5.66	0.00E+00	0.00E+00
85	2118.19	2112 -	2121	4.30E+01	17.66	2.00E+01	9.73E+00
86	2203.73	2198 -	2207	1.53E+02	29.87	4.08E+01	1.38E+01
87	2292.93	2289 -	2295	1.06E+01	8.97	6.86E+00	5.08E+00
88	2322.47	2318 -	2325	1.20E+01	6.93	0.00E+00	0.00E+00
89	2447.20	2443 -	2450	5.00E+01	14.14	0.00E+00	0.00E+00
90	2614.11	2610 -	2616	2.83E+01	11.50	3.47E+00	3.60E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 6/17/2015 7:12:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	27.39	26 -	30	27.75	2.69E+02	99.47	1.96E+03	.....
	2	32.11	31 -	36	32.46	2.21E+02	120.57	2.77E+03	.....
	3	46.62	43 -	49	46.97	1.84E+03	179.45	4.52E+03	PB-210
M	4	63.82	61 -	71	64.16	6.28E+02	172.46	5.37E+03	TH-234
									TH-230
m	5	67.83	61 -	71	68.17	3.42E+03	170.26	3.78E+03	TI-44
									TA-182
									TH-230
M	6	75.07	73 -	80	75.41	1.52E+03	191.38	5.78E+03	AM-243
m	7	77.30	73 -	80	77.64	2.21E+03	177.52	5.31E+03	.....
	8	84.03	83 -	86	84.37	1.13E+03	155.50	4.78E+03	TH-231
	9	88.29	87 -	92	88.63	7.63E+02	172.57	5.21E+03	LU-176
									CD-109
									SN-126
	10	95.17	92 -	100	95.51	6.33E+02	204.24	5.90E+03	.....
	11	122.03	120 -	125	122.35	1.86E+02	112.45	2.39E+03	CO-57
									EU-152
									SE-75

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	12	144.14	141 -	148	144.46	6.54E+02	161.93	3.94E+03	U-235
	13	154.30	152 -	158	154.62	3.37E+02	138.17	3.22E+03	.....
	14	186.22	182 -	190	186.52	1.20E+03	164.76	3.43E+03	RA-226
	15	211.09	209 -	214	211.39	1.11E+02	92.50	1.63E+03	.....
	16	220.25	218 -	223	220.54	8.91E+01	86.76	1.43E+03	.....
M	17	235.99	232 -	245	236.28	6.07E+02	87.34	1.15E+03	TH-227
									NB-95M
m	18	238.91	232 -	245	239.20	2.38E+02	101.09	1.35E+03	PB-212
m	19	242.09	232 -	245	242.38	1.41E+03	110.40	1.31E+03	.....
M	20	255.48	251 -	262	255.76	4.42E+02	125.61	1.97E+03	SN-113
									TH-227
m	21	259.22	251 -	262	259.50	7.81E+01	74.21	9.91E+02	.....
M	22	270.36	266 -	289	270.63	1.14E+03	116.65	1.54E+03	.....
m	23	284.94	266 -	289	285.21	1.91E+02	98.37	1.38E+03	I-131
									PM-149
M	24	295.31	291 -	307	295.58	3.06E+03	125.54	7.85E+02	PB-214
m	25	299.68	291 -	307	299.95	2.40E+02	79.65	8.65E+02	BI-210M
									PB-212
									GA-67
m	26	303.14	291 -	307	303.40	1.62E+02	77.07	8.50E+02	BA-133
									PA-231
	27	313.82	311 -	317	314.08	7.79E+01	69.53	8.28E+02	.....
M	28	323.73	321 -	333	323.98	1.44E+02	62.59	7.28E+02	RA-223
m	29	329.63	321 -	333	329.89	1.73E+02	64.01	8.04E+02	LA-140
	30	338.52	336 -	342	338.77	1.16E+02	77.91	1.01E+03	AC-228
	31	351.89	347 -	356	352.14	5.49E+03	177.24	1.35E+03	PB-214
	32	387.24	383 -	391	387.47	1.50E+02	77.97	8.46E+02	.....
M	33	401.67	399 -	408	401.90	2.34E+02	57.15	5.56E+02	RN-219
m	34	404.83	399 -	408	405.06	1.35E+02	60.81	5.58E+02	PB-211
M	35	423.30	421 -	431	423.53	7.05E+01	47.51	4.35E+02	BA-140
m	36	426.90	421 -	431	427.13	9.38E+01	63.54	6.35E+02	SB-125
	37	445.14	442 -	449	445.36	6.88E+01	60.17	5.60E+02	.....
	38	511.07	507 -	516	511.26	1.45E+02	68.30	5.79E+02	.....
	39	533.48	530 -	538	533.66	5.87E+01	58.96	4.97E+02	.....
	40	562.33	560 -	566	562.50	3.66E+01	42.59	3.01E+02	CS-134
M	41	579.85	578 -	587	580.02	3.03E+01	27.86	1.70E+02	.....
m	42	583.20	578 -	587	583.37	7.59E+01	40.78	2.48E+02	TL-208
	43	609.30	604 -	614	609.46	3.54E+03	136.30	5.89E+02	BI-214
	44	665.55	662 -	668	665.69	5.42E+01	42.04	2.98E+02	SB-126
									CE-143
M	45	768.21	762 -	778	768.31	3.69E+02	52.31	2.32E+02	.....
m	46	773.50	762 -	778	773.60	3.32E+01	37.58	1.88E+02	.....
	47	785.79	782 -	789	785.89	6.54E+01	41.81	2.47E+02	.....
	48	806.76	802 -	811	806.85	6.62E+01	51.90	3.40E+02	.....
M	49	831.91	828 -	847	832.00	7.16E+01	35.30	1.83E+02	PB-211
m	50	838.73	828 -	847	838.81	6.07E+01	34.50	1.88E+02	.....
	51	933.64	928 -	938	933.69	2.08E+02	55.29	2.97E+02	.....
	52	948.86	946 -	952	948.90	2.81E+01	30.77	1.54E+02	.....
	53	962.44	957 -	967	962.48	6.31E+01	45.46	2.42E+02	.....
	54	1051.46	1048 -	1055	1051.46	2.99E+01	33.29	1.66E+02	.....
	55	1120.24	1116 -	1125	1120.22	7.56E+02	68.40	2.40E+02	BI-214
									SC-46
	56	1133.29	1127 -	1140	1133.27	4.77E+01	54.41	3.07E+02	.....
	57	1154.97	1149 -	1159	1154.94	8.07E+01	49.65	2.85E+02	.....

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	58	1234.06	1233 -	1242	1234.00	1.58E+01	11.70	3.97E+01	.....
m	59	1237.92	1233 -	1242	1237.86	2.76E+02	42.72	1.30E+02	CO-56
	60	1244.96	1243 -	1247	1244.90	2.22E+01	19.87	6.57E+01	.....
	61	1280.31	1275 -	1285	1280.23	8.25E+01	39.59	1.65E+02	.....
	62	1306.77	1304 -	1310	1306.68	2.27E+01	22.93	7.67E+01	.....
	63	1377.54	1373 -	1381	1377.43	1.93E+02	40.19	1.29E+02	.....
	64	1386.36	1382 -	1391	1386.25	5.26E+01	30.07	9.69E+01	.....
	65	1401.02	1396 -	1404	1400.90	3.16E+01	32.99	1.47E+02	.....
	66	1407.89	1404 -	1411	1407.76	1.18E+02	34.58	1.21E+02	EU-152
	67	1461.27	1456 -	1471	1461.13	1.23E+02	50.12	2.09E+02	K-40
	68	1509.26	1505 -	1513	1509.10	8.20E+01	37.05	1.58E+02	.....
	69	1542.50	1533 -	1553	1542.33	8.61E+01	53.20	1.96E+02	.....
	70	1567.62	1562 -	1572	1567.44	5.58E+01	23.45	4.23E+01	.....
M	71	1579.93	1578 -	1607	1579.74	3.00E+01	10.34	1.80E+01	.....
m	72	1584.19	1578 -	1607	1584.00	3.09E+01	21.24	4.20E+01	.....
m	73	1601.45	1578 -	1607	1601.26	2.08E+01	21.98	5.40E+01	.....
	74	1620.90	1614 -	1628	1620.70	2.76E+01	31.99	9.08E+01	BI-212
	75	1643.70	1641 -	1647	1643.49	1.19E+01	15.96	3.61E+01	.....
	76	1660.67	1657 -	1663	1660.45	3.14E+01	17.27	3.12E+01	.....
	77	1682.29	1678 -	1686	1682.06	2.35E+01	19.66	4.50E+01	.....
	78	1729.35	1724 -	1733	1729.11	1.45E+02	31.62	6.00E+01	.....
	79	1764.26	1759 -	1771	1764.00	6.03E+02	53.85	5.40E+01	BI-214
	80	1813.81	1811 -	1817	1813.54	7.93E+00	10.25	1.21E+01	.....
M	81	1835.28	1833 -	1852	1835.00	9.83E+00	9.12	1.02E+01	Y-88
m	82	1847.11	1833 -	1852	1846.83	8.72E+01	22.09	2.11E+01	.....
	83	2010.02	2005 -	2014	2009.67	1.70E+01	14.42	2.00E+01	.....
	84	2080.50	2078 -	2082	2080.13	8.00E+00	5.66	0.00E+00	.....
	85	2118.19	2112 -	2121	2117.80	4.30E+01	17.66	2.00E+01	.....
	86	2203.73	2198 -	2207	2203.31	1.53E+02	29.87	4.08E+01	BI-214
	87	2292.93	2289 -	2295	2292.47	1.06E+01	8.97	6.86E+00	.....
	88	2322.47	2318 -	2325	2322.00	1.20E+01	6.93	0.00E+00	.....
	89	2447.20	2443 -	2450	2446.68	5.00E+01	14.14	0.00E+00	.....
	90	2614.11	2610 -	2616	2613.53	2.83E+01	11.50	3.47E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 6/17/2015 7:12:58AM

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	27.39	2.69E+02	99.47	3.05E-03	1.78E-03
	2	32.11	2.21E+02	120.57	6.07E-03	1.78E-03
	3	46.62	1.84E+03	179.45	1.69E-02	1.78E-03
M	4	63.82	6.28E+02	172.46	2.51E-02	1.93E-03
m	5	67.83	3.42E+03	170.26	2.62E-02	2.06E-03
M	6	75.07	1.52E+03	191.38	2.75E-02	2.30E-03
m	7	77.30	2.21E+03	177.52	2.78E-02	2.38E-03
	8	84.03	1.13E+03	155.50	2.83E-02	2.61E-03
	9	88.29	7.63E+02	172.57	2.85E-02	2.74E-03
	10	95.17	6.33E+02	204.24	2.86E-02	2.60E-03
	11	122.03	1.86E+02	112.45	2.72E-02	2.07E-03
	12	144.14	6.54E+02	161.93	2.55E-02	2.12E-03
	13	154.30	3.37E+02	138.17	2.47E-02	2.15E-03
	14	186.22	1.20E+03	164.76	2.24E-02	2.03E-03
	15	211.09	1.11E+02	92.50	2.08E-02	1.84E-03
	16	220.25	8.91E+01	86.76	2.02E-02	1.77E-03
M	17	235.99	6.07E+02	87.34	1.94E-02	1.66E-03
m	18	238.91	2.38E+02	101.09	1.92E-02	1.64E-03
m	19	242.09	1.41E+03	110.40	1.90E-02	1.61E-03
M	20	255.48	4.42E+02	125.61	1.84E-02	1.51E-03
m	21	259.22	7.81E+01	74.21	1.82E-02	1.49E-03
M	22	270.36	1.14E+03	116.65	1.77E-02	1.40E-03
m	23	284.94	1.91E+02	98.37	1.71E-02	1.33E-03
M	24	295.31	3.06E+03	125.54	1.67E-02	1.31E-03
m	25	299.68	2.40E+02	79.65	1.65E-02	1.30E-03
m	26	303.14	1.62E+02	77.07	1.64E-02	1.29E-03
	27	313.82	7.79E+01	69.53	1.60E-02	1.27E-03
M	28	323.73	1.44E+02	62.59	1.57E-02	1.25E-03
m	29	329.63	1.73E+02	64.01	1.55E-02	1.24E-03
	30	338.52	1.16E+02	77.91	1.52E-02	1.22E-03
	31	351.89	5.49E+03	177.24	1.48E-02	1.19E-03
	32	387.24	1.50E+02	77.97	1.38E-02	1.12E-03
M	33	401.67	2.34E+02	57.15	1.34E-02	1.10E-03
m	34	404.83	1.35E+02	60.81	1.34E-02	1.10E-03
M	35	423.30	7.05E+01	47.51	1.29E-02	1.08E-03
m	36	426.90	9.38E+01	63.54	1.28E-02	1.08E-03
	37	445.14	6.88E+01	60.17	1.25E-02	1.06E-03
	38	511.07	1.45E+02	68.30	1.12E-02	9.90E-04
	39	533.48	5.87E+01	58.96	1.09E-02	9.67E-04
	40	562.33	3.66E+01	42.59	1.05E-02	9.37E-04
M	41	579.85	3.03E+01	27.86	1.02E-02	9.19E-04
m	42	583.20	7.59E+01	40.78	1.02E-02	9.15E-04
	43	609.30	3.54E+03	136.30	9.83E-03	8.88E-04
	44	665.55	5.42E+01	42.04	9.17E-03	8.31E-04
M	45	768.21	3.69E+02	52.31	8.19E-03	7.39E-04
m	46	773.50	3.32E+01	37.58	8.15E-03	7.34E-04
	47	785.79	6.54E+01	41.81	8.05E-03	7.23E-04
	48	806.76	6.62E+01	51.90	7.88E-03	7.04E-04
M	49	831.91	7.16E+01	35.30	7.69E-03	6.82E-04
m	50	838.73	6.07E+01	34.50	7.64E-03	6.75E-04
	51	933.64	2.08E+02	55.29	7.01E-03	6.04E-04
	52	948.86	2.81E+01	30.77	6.92E-03	5.96E-04
	53	962.44	6.31E+01	45.46	6.84E-03	5.89E-04

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	54	1051.46	2.99E+01	33.29	6.38E-03	5.42E-04
	55	1120.24	7.56E+02	68.40	6.07E-03	5.07E-04
	56	1133.29	4.77E+01	54.41	6.01E-03	5.00E-04
	57	1154.97	8.07E+01	49.65	5.92E-03	4.89E-04
M	58	1234.06	1.58E+01	11.70	5.63E-03	4.68E-04
m	59	1237.92	2.76E+02	42.72	5.62E-03	4.68E-04
	60	1244.96	2.22E+01	19.87	5.59E-03	4.67E-04
	61	1280.31	8.25E+01	39.59	5.47E-03	4.60E-04
	62	1306.77	2.27E+01	22.93	5.39E-03	4.56E-04
	63	1377.54	1.93E+02	40.19	5.18E-03	4.40E-04
	64	1386.36	5.26E+01	30.07	5.16E-03	4.38E-04
	65	1401.02	3.16E+01	32.99	5.12E-03	4.34E-04
	66	1407.89	1.18E+02	34.58	5.10E-03	4.32E-04
	67	1461.27	1.23E+02	50.12	4.97E-03	4.19E-04
	68	1509.26	8.20E+01	37.05	4.86E-03	4.07E-04
	69	1542.50	8.61E+01	53.20	4.79E-03	3.99E-04
	70	1567.62	5.58E+01	23.45	4.74E-03	3.93E-04
M	71	1579.93	3.00E+01	10.34	4.71E-03	3.90E-04
m	72	1584.19	3.09E+01	21.24	4.70E-03	3.89E-04
m	73	1601.45	2.08E+01	21.98	4.67E-03	3.84E-04
	74	1620.90	2.76E+01	31.99	4.63E-03	3.79E-04
	75	1643.70	1.19E+01	15.96	4.59E-03	3.74E-04
	76	1660.67	3.14E+01	17.27	4.56E-03	3.69E-04
	77	1682.29	2.35E+01	19.66	4.52E-03	3.64E-04
	78	1729.35	1.45E+02	31.62	4.45E-03	3.52E-04
	79	1764.26	6.03E+02	53.85	4.40E-03	3.44E-04
	80	1813.81	7.93E+00	10.25	4.33E-03	3.31E-04
M	81	1835.28	9.83E+00	9.12	4.30E-03	3.26E-04
m	82	1847.11	8.72E+01	22.09	4.28E-03	3.26E-04
	83	2010.02	1.70E+01	14.42	4.10E-03	3.26E-04
	84	2080.50	8.00E+00	5.66	4.04E-03	3.26E-04
	85	2118.19	4.30E+01	17.66	4.01E-03	3.26E-04
	86	2203.73	1.53E+02	29.87	3.95E-03	3.26E-04
	87	2292.93	1.06E+01	8.97	3.90E-03	3.26E-04
	88	2322.47	1.20E+01	6.93	3.88E-03	3.26E-04
	89	2447.20	5.00E+01	14.14	3.83E-03	3.26E-04
	90	2614.11	2.83E+01	11.50	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/17/2015 7:12:58AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023400.CNF

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	27.39	2.69E+02	99.47			2.69E+02	9.95E+01
	2	32.11	2.21E+02	120.57			2.21E+02	1.21E+02
	3	46.62	1.84E+03	179.45	4.45E+01	7.82E+00	1.79E+03	1.80E+02
M	4	63.82	6.28E+02	172.46	8.67E+01	9.06E+00	5.41E+02	1.73E+02
m	5	67.83	3.42E+03	170.26			3.42E+03	1.70E+02
M	6	75.07	1.52E+03	191.38			1.52E+03	1.91E+02
m	7	77.30	2.21E+03	177.52	2.22E+01	1.16E+01	2.19E+03	1.78E+02
	8	84.03	1.13E+03	155.50			1.13E+03	1.55E+02
	9	88.29	7.63E+02	172.57			7.63E+02	1.73E+02
	10	95.17	6.33E+02	204.24			6.33E+02	2.04E+02
	11	122.03	1.86E+02	112.45			1.86E+02	1.12E+02
	12	144.14	6.54E+02	161.93	1.04E+01	7.41E+00	6.44E+02	1.62E+02
	13	154.30	3.37E+02	138.17			3.37E+02	1.38E+02
	14	186.22	1.20E+03	164.76	6.24E+01	7.25E+00	1.14E+03	1.65E+02
	15	211.09	1.11E+02	92.50			1.11E+02	9.25E+01
	16	220.25	8.91E+01	86.76			8.91E+01	8.68E+01
M	17	235.99	6.07E+02	87.34			6.07E+02	8.73E+01
m	18	238.91	2.38E+02	101.09	2.02E+01	6.17E+00	2.17E+02	1.01E+02
m	19	242.09	1.41E+03	110.40			1.41E+03	1.10E+02
M	20	255.48	4.42E+02	125.61			4.42E+02	1.26E+02
m	21	259.22	7.81E+01	74.21			7.81E+01	7.42E+01
M	22	270.36	1.14E+03	116.65			1.14E+03	1.17E+02
m	23	284.94	1.91E+02	98.37			1.91E+02	9.84E+01
M	24	295.31	3.06E+03	125.54			3.06E+03	1.26E+02
m	25	299.68	2.40E+02	79.65			2.40E+02	7.96E+01
m	26	303.14	1.62E+02	77.07			1.62E+02	7.71E+01
	27	313.82	7.79E+01	69.53			7.79E+01	6.95E+01
M	28	323.73	1.44E+02	62.59			1.44E+02	6.26E+01
m	29	329.63	1.73E+02	64.01			1.73E+02	6.40E+01
	30	338.52	1.16E+02	77.91			1.16E+02	7.79E+01
	31	351.89	5.49E+03	177.24	6.12E+00	5.01E+00	5.49E+03	1.77E+02
	32	387.24	1.50E+02	77.97			1.50E+02	7.80E+01
M	33	401.67	2.34E+02	57.15			2.34E+02	5.71E+01
m	34	404.83	1.35E+02	60.81			1.35E+02	6.08E+01
M	35	423.30	7.05E+01	47.51			7.05E+01	4.75E+01
m	36	426.90	9.38E+01	63.54			9.38E+01	6.35E+01
	37	445.14	6.88E+01	60.17			6.88E+01	6.02E+01
	38	511.07	1.45E+02	68.30	8.79E+01	5.49E+00	5.75E+01	6.85E+01
	39	533.48	5.87E+01	58.96			5.87E+01	5.90E+01
	40	562.33	3.66E+01	42.59			3.66E+01	4.26E+01
M	41	579.85	3.03E+01	27.86			3.03E+01	2.79E+01
m	42	583.20	7.59E+01	40.78	7.08E+00	2.92E+00	6.88E+01	4.09E+01
	43	609.30	3.54E+03	136.30	4.94E+00	4.56E+00	3.54E+03	1.36E+02
	44	665.55	5.42E+01	42.04			5.42E+01	4.20E+01
M	45	768.21	3.69E+02	52.31			3.69E+02	5.23E+01
m	46	773.50	3.32E+01	37.58			3.32E+01	3.76E+01
	47	785.79	6.54E+01	41.81			6.54E+01	4.18E+01
	48	806.76	6.62E+01	51.90			6.62E+01	5.19E+01
M	49	831.91	7.16E+01	35.30			7.16E+01	3.53E+01
m	50	838.73	6.07E+01	34.50			6.07E+01	3.45E+01
	51	933.64	2.08E+02	55.29			2.08E+02	5.53E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	52	948.86	2.81E+01	30.77			2.81E+01	3.08E+01
	53	962.44	6.31E+01	45.46			6.31E+01	4.55E+01
	54	1051.46	2.99E+01	33.29			2.99E+01	3.33E+01
	55	1120.24	7.56E+02	68.40			7.56E+02	6.84E+01
	56	1133.29	4.77E+01	54.41			4.77E+01	5.44E+01
	57	1154.97	8.07E+01	49.65			8.07E+01	4.96E+01
M	58	1234.06	1.58E+01	11.70			1.58E+01	1.17E+01
m	59	1237.92	2.76E+02	42.72			2.76E+02	4.27E+01
	60	1244.96	2.22E+01	19.87			2.22E+01	1.99E+01
	61	1280.31	8.25E+01	39.59	1.48E+00	2.11E+00	8.10E+01	3.96E+01
	62	1306.77	2.27E+01	22.93			2.27E+01	2.29E+01
	63	1377.54	1.93E+02	40.19			1.93E+02	4.02E+01
	64	1386.36	5.26E+01	30.07			5.26E+01	3.01E+01
	65	1401.02	3.16E+01	32.99			3.16E+01	3.30E+01
	66	1407.89	1.18E+02	34.58			1.18E+02	3.46E+01
	67	1461.27	1.23E+02	50.12	7.09E+00	2.19E+00	1.16E+02	5.02E+01
	68	1509.26	8.20E+01	37.05			8.20E+01	3.71E+01
	69	1542.50	8.61E+01	53.20			8.61E+01	5.32E+01
	70	1567.62	5.58E+01	23.45			5.58E+01	2.35E+01
M	71	1579.93	3.00E+01	10.34			3.00E+01	1.03E+01
m	72	1584.19	3.09E+01	21.24			3.09E+01	2.12E+01
m	73	1601.45	2.08E+01	21.98			2.08E+01	2.20E+01
	74	1620.90	2.76E+01	31.99			2.76E+01	3.20E+01
	75	1643.70	1.19E+01	15.96			1.19E+01	1.60E+01
	76	1660.67	3.14E+01	17.27			3.14E+01	1.73E+01
	77	1682.29	2.35E+01	19.66			2.35E+01	1.97E+01
	78	1729.35	1.45E+02	31.62			1.45E+02	3.16E+01
	79	1764.26	6.03E+02	53.85	2.53E+00	4.67E-01	6.00E+02	5.39E+01
	80	1813.81	7.93E+00	10.25			7.93E+00	1.02E+01
M	81	1835.28	9.83E+00	9.12			9.83E+00	9.12E+00
m	82	1847.11	8.72E+01	22.09			8.72E+01	2.21E+01
	83	2010.02	1.70E+01	14.42			1.70E+01	1.44E+01
	84	2080.50	8.00E+00	5.66			8.00E+00	5.66E+00
	85	2118.19	4.30E+01	17.66			4.30E+01	1.77E+01
	86	2203.73	1.53E+02	29.87			1.53E+02	2.99E+01
	87	2292.93	1.06E+01	8.97			1.06E+01	8.97E+00
	88	2322.47	1.20E+01	6.93			1.20E+01	6.93E+00
	89	2447.20	5.00E+01	14.14			5.00E+01	1.41E+01
	90	2614.11	2.83E+01	11.50	5.15E+00	1.46E+00	2.31E+01	1.16E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 6/17/2015 7:12:58AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023400.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	27.39	2.69E+02	99.47			2.69E+02	9.95E+01
	2	32.11	2.21E+02	120.57			2.21E+02	1.21E+02
	3	46.62	1.84E+03	179.45	4.45E+01	7.82E+00	1.79E+03	1.80E+02
M	4	63.82	6.28E+02	172.46	8.67E+01	9.06E+00	5.41E+02	1.73E+02
m	5	67.83	3.42E+03	170.26			3.42E+03	1.70E+02
M	6	75.07	1.52E+03	191.38			1.52E+03	1.91E+02
m	7	77.30	2.21E+03	177.52	2.22E+01	1.16E+01	2.19E+03	1.78E+02
	8	84.03	1.13E+03	155.50			1.13E+03	1.55E+02
	9	88.29	7.63E+02	172.57			7.63E+02	1.73E+02
	10	95.17	6.33E+02	204.24			6.33E+02	2.04E+02
	11	122.03	1.86E+02	112.45			1.86E+02	1.12E+02
	12	144.14	6.54E+02	161.93	1.04E+01	7.41E+00	6.44E+02	1.62E+02
	13	154.30	3.37E+02	138.17			3.37E+02	1.38E+02
	14	186.22	1.20E+03	164.76	6.24E+01	7.25E+00	1.14E+03	1.65E+02
	15	211.09	1.11E+02	92.50			1.11E+02	9.25E+01
	16	220.25	8.91E+01	86.76			8.91E+01	8.68E+01
M	17	235.99	6.07E+02	87.34			6.07E+02	8.73E+01
m	18	238.91	2.38E+02	101.09	2.02E+01	6.17E+00	2.17E+02	1.01E+02
m	19	242.09	1.41E+03	110.40			1.41E+03	1.10E+02
M	20	255.48	4.42E+02	125.61			4.42E+02	1.26E+02
m	21	259.22	7.81E+01	74.21			7.81E+01	7.42E+01
M	22	270.36	1.14E+03	116.65			1.14E+03	1.17E+02
m	23	284.94	1.91E+02	98.37			1.91E+02	9.84E+01
M	24	295.31	3.06E+03	125.54			3.06E+03	1.26E+02
m	25	299.68	2.40E+02	79.65			2.40E+02	7.96E+01
m	26	303.14	1.62E+02	77.07			1.62E+02	7.71E+01
	27	313.82	7.79E+01	69.53			7.79E+01	6.95E+01
M	28	323.73	1.44E+02	62.59			1.44E+02	6.26E+01
m	29	329.63	1.73E+02	64.01			1.73E+02	6.40E+01
	30	338.52	1.16E+02	77.91			1.16E+02	7.79E+01
	31	351.89	5.49E+03	177.24	6.12E+00	5.01E+00	5.49E+03	1.77E+02
	32	387.24	1.50E+02	77.97			1.50E+02	7.80E+01
M	33	401.67	2.34E+02	57.15			2.34E+02	5.71E+01
m	34	404.83	1.35E+02	60.81			1.35E+02	6.08E+01
M	35	423.30	7.05E+01	47.51			7.05E+01	4.75E+01
m	36	426.90	9.38E+01	63.54			9.38E+01	6.35E+01
	37	445.14	6.88E+01	60.17			6.88E+01	6.02E+01
	38	511.07	1.45E+02	68.30	8.79E+01	5.49E+00	5.75E+01	6.85E+01
	39	533.48	5.87E+01	58.96			5.87E+01	5.90E+01
	40	562.33	3.66E+01	42.59			3.66E+01	4.26E+01
M	41	579.85	3.03E+01	27.86			3.03E+01	2.79E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	42	583.20	7.59E+01	40.78	7.08E+00	2.92E+00	6.88E+01	4.09E+01
	43	609.30	3.54E+03	136.30	4.94E+00	4.56E+00	3.54E+03	1.36E+02
	44	665.55	5.42E+01	42.04			5.42E+01	4.20E+01
M	45	768.21	3.69E+02	52.31			3.69E+02	5.23E+01
m	46	773.50	3.32E+01	37.58			3.32E+01	3.76E+01
	47	785.79	6.54E+01	41.81			6.54E+01	4.18E+01
	48	806.76	6.62E+01	51.90			6.62E+01	5.19E+01
M	49	831.91	7.16E+01	35.30			7.16E+01	3.53E+01
m	50	838.73	6.07E+01	34.50			6.07E+01	3.45E+01
	51	933.64	2.08E+02	55.29			2.08E+02	5.53E+01
	52	948.86	2.81E+01	30.77			2.81E+01	3.08E+01
	53	962.44	6.31E+01	45.46			6.31E+01	4.55E+01
	54	1051.46	2.99E+01	33.29			2.99E+01	3.33E+01
	55	1120.24	7.56E+02	68.40			7.56E+02	6.84E+01
	56	1133.29	4.77E+01	54.41			4.77E+01	5.44E+01
	57	1154.97	8.07E+01	49.65			8.07E+01	4.96E+01
M	58	1234.06	1.58E+01	11.70			1.58E+01	1.17E+01
m	59	1237.92	2.76E+02	42.72			2.76E+02	4.27E+01
	60	1244.96	2.22E+01	19.87			2.22E+01	1.99E+01
	61	1280.31	8.25E+01	39.59	1.48E+00	2.11E+00	8.10E+01	3.96E+01
	62	1306.77	2.27E+01	22.93			2.27E+01	2.29E+01
	63	1377.54	1.93E+02	40.19			1.93E+02	4.02E+01
	64	1386.36	5.26E+01	30.07			5.26E+01	3.01E+01
	65	1401.02	3.16E+01	32.99			3.16E+01	3.30E+01
	66	1407.89	1.18E+02	34.58			1.18E+02	3.46E+01
	67	1461.27	1.23E+02	50.12	7.09E+00	2.19E+00	1.16E+02	5.02E+01
	68	1509.26	8.20E+01	37.05			8.20E+01	3.71E+01
	69	1542.50	8.61E+01	53.20			8.61E+01	5.32E+01
	70	1567.62	5.58E+01	23.45			5.58E+01	2.35E+01
M	71	1579.93	3.00E+01	10.34			3.00E+01	1.03E+01
m	72	1584.19	3.09E+01	21.24			3.09E+01	2.12E+01
m	73	1601.45	2.08E+01	21.98			2.08E+01	2.20E+01
	74	1620.90	2.76E+01	31.99			2.76E+01	3.20E+01
	75	1643.70	1.19E+01	15.96			1.19E+01	1.60E+01
	76	1660.67	3.14E+01	17.27			3.14E+01	1.73E+01
	77	1682.29	2.35E+01	19.66			2.35E+01	1.97E+01
	78	1729.35	1.45E+02	31.62			1.45E+02	3.16E+01
	79	1764.26	6.03E+02	53.85	2.53E+00	4.67E-01	6.00E+02	5.39E+01
	80	1813.81	7.93E+00	10.25			7.93E+00	1.02E+01
M	81	1835.28	9.83E+00	9.12			9.83E+00	9.12E+00
m	82	1847.11	8.72E+01	22.09			8.72E+01	2.21E+01
	83	2010.02	1.70E+01	14.42			1.70E+01	1.44E+01
	84	2080.50	8.00E+00	5.66			8.00E+00	5.66E+00
	85	2118.19	4.30E+01	17.66			4.30E+01	1.77E+01
	86	2203.73	1.53E+02	29.87			1.53E+02	2.99E+01
	87	2292.93	1.06E+01	8.97			1.06E+01	8.97E+00
	88	2322.47	1.20E+01	6.93			1.20E+01	6.93E+00
	89	2447.20	5.00E+01	14.14			5.00E+01	1.41E+01
	90	2614.11	2.83E+01	11.50	5.15E+00	1.46E+00	2.31E+01	1.16E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.966	1460.81	*	10.67	4.99E+00	2.20E+00
CO-57	0.827	122.06	*	85.51	1.84E-01	1.12E-01
		136.48		10.60		
CD-109	0.989	88.03	*	3.72	1.65E+01	4.17E+00
SN-126	0.920	87.57	*	37.00	1.65E+00	4.04E-01
PM-149	0.835	285.90	*	3.10	4.80E+01	2.50E+01
TL-208	0.866	583.14	*	30.22	5.09E-01	3.06E-01
		860.37		4.48		
		2614.66	*	35.85	3.87E-01	1.97E-01
PB-210	0.998	46.50	*	4.25	5.68E+01	8.28E+00
PB-211	1.000	404.84	*	2.90	7.90E+00	3.63E+00
		831.96	*	2.90	7.31E+00	3.66E+00
PB-212	0.986	238.63	*	44.60	5.78E-01	2.73E-01
		300.09	*	3.41	9.68E+00	3.31E+00
BI-214	0.996	609.31	*	46.30	1.77E+01	1.74E+00
		1120.29	*	15.10	1.88E+01	2.31E+00
		1764.49	*	15.80	1.97E+01	2.34E+00
		2204.22	*	4.98	1.77E+01	3.75E+00
PB-214	0.999	295.21	*	19.19	2.17E+01	1.92E+00
		351.92	*	37.19	2.27E+01	1.98E+00
RN-219	0.997	401.80	*	6.50	6.09E+00	1.57E+00
RA-223	0.997	323.87	*	3.88	5.40E+00	2.38E+00
RA-226	1.000	186.21	*	3.28	3.53E+01	6.48E+01
TH-227	0.467	50.10		8.40		
		236.00	*	11.50	6.20E+00	1.04E+00
		256.20	*	6.30	8.69E+00	2.57E+00
PA-231	0.315	283.67		1.60		
		302.67	*	2.30	9.79E+00	4.72E+00
TH-231	0.377	25.64		14.70		
		84.21	*	6.40	1.42E+01	2.35E+00
TH-234	0.957	63.29	*	3.80	1.29E+01	4.24E+00
AM-243	0.975	74.67	*	66.00	1.91E+00	2.88E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 7:12:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	27.39	7.47942E-02	18.47		
	2	32.11	6.14747E-02	27.24		
m	5	67.83	9.49759E-01	2.49	Tol.	TI-44 TH-230
m	7	77.30	6.08703E-01	4.06		
	10	95.17	1.75909E-01	16.13		
	12	144.14	1.78828E-01	12.59	Tol.	U-235
	13	154.30	9.35153E-02	20.52		
	15	211.09	3.07155E-02	41.83	Sum	
	16	220.25	2.47409E-02	48.71		
m	19	242.09	3.90534E-01	3.93		
m	21	259.22	2.17036E-02	47.49		
M	22	270.36	3.18028E-01	5.09	Sum	
	27	313.82	2.16294E-02	44.65	Sum	
m	29	329.63	4.80635E-02	18.50	Sum	
	30	338.52	3.22231E-02	33.58	Sum	
	32	387.24	4.16608E-02	25.99	Sum	
M	35	423.30	1.95971E-02	33.67	Tol.	BA-140
m	36	426.90	2.60691E-02	33.85	Sum	
	37	445.14	1.91225E-02	43.70	Sum	
	38	511.07	1.59838E-02	59.54	Sum	
	39	533.48	1.63156E-02	50.19	Sum	
	40	562.33	1.01745E-02	58.14	Sum	
M	41	579.85	8.42982E-03	45.90	Sum	
	44	665.55	1.50479E-02	38.80	Tol.	CE-143
M	45	768.21	1.02457E-01	7.09		
m	46	773.50	9.22059E-03	56.61		
	47	785.79	1.81584E-02	31.98		
	48	806.76	1.83851E-02	39.21	Sum	
m	50	838.73	1.68693E-02	28.40	Sum	
	51	933.64	5.76974E-02	13.31	Sum	
	52	948.86	7.80556E-03	54.75		

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	53	962.44	1.75151E-02	36.05		
	54	1051.46	8.30998E-03	55.63		
	56	1133.29	1.32504E-02	57.03		
	57	1154.97	2.24041E-02	30.78	Sum	
M	58	1234.06	4.39674E-03	36.97	Sum	
m	59	1237.92	7.66660E-02	7.74	Tol.	CO-56
	60	1244.96	6.15404E-03	44.85		
	61	1280.31	2.25050E-02	24.47		
	62	1306.77	6.29326E-03	50.60	Sum	
	63	1377.54	5.34760E-02	10.44		
	64	1386.36	1.46012E-02	28.60		
	65	1401.02	8.77778E-03	52.20		
	66	1407.89	3.28755E-02	14.61		
	68	1509.26	2.27683E-02	22.60		
	69	1542.50	2.39281E-02	30.88		
	70	1567.62	1.55123E-02	21.00		
M	71	1579.93	8.33260E-03	17.24		
m	72	1584.19	8.58091E-03	34.37	Sum	
m	73	1601.45	5.78124E-03	52.80		
	74	1620.90	7.66362E-03	57.97	Tol.	BI-212
	75	1643.70	3.31944E-03	66.78		
	76	1660.67	8.72636E-03	27.49		
	77	1682.29	6.52778E-03	41.83		
	78	1729.35	4.02778E-02	10.90	Sum	
	80	1813.81	2.20238E-03	64.62	Sum	
M	81	1835.28	2.73022E-03	46.42		
m	82	1847.11	2.42355E-02	12.66		
	83	2010.02	4.72222E-03	42.42		
	84	2080.50	2.22222E-03	35.36		
	85	2118.19	1.19444E-02	20.54		
	87	2292.93	2.93651E-03	42.44	Sum	
	88	2322.47	3.33333E-03	28.87		
	89	2447.20	1.38889E-02	14.14		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.96	1460.81	*	10.67	4.99E+00	2.20E+00
CO-57	0.82	122.06	*	85.51	1.84E-01	1.12E-01
		136.48		10.60		
CD-109	0.98	88.03	*	3.72	1.65E+01	4.17E+00
SN-126	0.92	87.57	*	37.00	1.65E+00	4.04E-01
PM-149	0.83	285.90	*	3.10	4.80E+01	2.50E+01
TL-208	0.86	583.14	*	30.22	5.09E-01	3.06E-01
		860.37		4.48		
		2614.66	*	35.85	3.87E-01	1.97E-01
PB-210	0.99	46.50	*	4.25	5.68E+01	8.28E+00
PB-211	1.00	404.84	*	2.90	7.90E+00	3.63E+00
		831.96	*	2.90	7.31E+00	3.66E+00
PB-212	0.98	238.63	*	44.60	5.78E-01	2.73E-01
		300.09	*	3.41	9.68E+00	3.31E+00
BI-214	0.99	609.31	*	46.30	1.77E+01	1.74E+00
		1120.29	*	15.10	1.88E+01	2.31E+00
		1764.49	*	15.80	1.97E+01	2.34E+00
		2204.22	*	4.98	1.77E+01	3.75E+00
PB-214	0.99	295.21	*	19.19	2.17E+01	1.92E+00
		351.92	*	37.19	2.27E+01	1.98E+00
RN-219	0.99	401.80	*	6.50	6.09E+00	1.57E+00
RA-223	0.99	323.87	*	3.88	5.40E+00	2.38E+00
RA-226	1.00	186.21	*	3.28	3.53E+01	6.48E+01
TH-227	0.46	50.10		8.40		
		236.00	*	11.50	6.20E+00	1.04E+00
		256.20	*	6.30	8.69E+00	2.57E+00
PA-231	0.31	283.67		1.60		
		302.67	*	2.30	9.79E+00	4.72E+00
TH-231	0.37	25.64		14.70		
		84.21	*	6.40	1.42E+01	2.35E+00
TH-234	0.95	63.29	*	3.80	1.29E+01	4.24E+00
AM-243	0.97	74.67	*	66.00	1.91E+00	2.88E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.966	4.99E+00	2.20E+00	
	CO-57	0.827	1.84E-01	1.12E-01	
X	NB-95M	0.973			
?	CD-109	0.989	1.65E+01	4.17E+00	
?	SN-126	0.920	1.65E+00	4.04E-01	
	PM-149	0.835	4.80E+01	2.50E+01	
	TL-208	0.866	4.23E-01	1.65E-01	
	PB-210	0.998	5.68E+01	8.28E+00	
	PB-211	1.000	7.61E+00	2.58E+00	
	PB-212	0.986	6.39E-01	2.72E-01	
	BI-214	0.996	1.84E+01	1.14E+00	
	PB-214	0.999	2.22E+01	1.38E+00	
	RN-219	0.997	6.09E+00	1.57E+00	
	RA-223	0.997	5.40E+00	2.38E+00	
	RA-226	1.000	3.53E+01	6.48E+01	
	TH-227	0.467	6.55E+00	9.63E-01	
	PA-231	0.315	9.79E+00	4.72E+00	
	TH-231	0.377	1.42E+01	2.35E+00	
	TH-234	0.957	1.29E+01	4.24E+00	
	AM-243	0.975	1.91E+00	2.88E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 7:12:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	27.39	7.47942E-02	18.47		
	2	32.11	6.14747E-02	27.24		
m	5	67.83	9.49759E-01	2.49	Tol.	TI-44 TH-230
m	7	77.30	6.08703E-01	4.06		
	10	95.17	1.75909E-01	16.13		
	12	144.14	1.78828E-01	12.59	Tol.	U-235
	13	154.30	9.35153E-02	20.52		
	15	211.09	3.07155E-02	41.83	Sum	
	16	220.25	2.47409E-02	48.71		
m	19	242.09	3.90534E-01	3.93		
m	21	259.22	2.17036E-02	47.49		
M	22	270.36	3.18028E-01	5.09	Sum	
	27	313.82	2.16294E-02	44.65	Sum	
m	29	329.63	4.80635E-02	18.50	Sum	
	30	338.52	3.22231E-02	33.58	Sum	
	32	387.24	4.16608E-02	25.99	Sum	
M	35	423.30	1.95971E-02	33.67	Tol.	BA-140
m	36	426.90	2.60691E-02	33.85	Sum	
	37	445.14	1.91225E-02	43.70	Sum	
	38	511.07	1.59838E-02	59.54	Sum	
	39	533.48	1.63156E-02	50.19	Sum	
	40	562.33	1.01745E-02	58.14	Sum	
M	41	579.85	8.42982E-03	45.90	Sum	
	44	665.55	1.50479E-02	38.80	Tol.	CE-143
M	45	768.21	1.02457E-01	7.09		
m	46	773.50	9.22059E-03	56.61		
	47	785.79	1.81584E-02	31.98		
	48	806.76	1.83851E-02	39.21	Sum	
m	50	838.73	1.68693E-02	28.40	Sum	
	51	933.64	5.76974E-02	13.31	Sum	
	52	948.86	7.80556E-03	54.75		
	53	962.44	1.75151E-02	36.05		

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	54	1051.46	8.30998E-03	55.63		
	56	1133.29	1.32504E-02	57.03		
	57	1154.97	2.24041E-02	30.78	Sum	
M	58	1234.06	4.39674E-03	36.97	Sum	
m	59	1237.92	7.66660E-02	7.74	Tol.	CO-56
	60	1244.96	6.15404E-03	44.85		
	61	1280.31	2.25050E-02	24.47		
	62	1306.77	6.29326E-03	50.60	Sum	
	63	1377.54	5.34760E-02	10.44		
	64	1386.36	1.46012E-02	28.60		
	65	1401.02	8.77778E-03	52.20		
	66	1407.89	3.28755E-02	14.61		
	68	1509.26	2.27683E-02	22.60		
	69	1542.50	2.39281E-02	30.88		
	70	1567.62	1.55123E-02	21.00		
M	71	1579.93	8.33260E-03	17.24		
m	72	1584.19	8.58091E-03	34.37	Sum	
m	73	1601.45	5.78124E-03	52.80		
	74	1620.90	7.66362E-03	57.97	Tol.	BI-212
	75	1643.70	3.31944E-03	66.78		
	76	1660.67	8.72636E-03	27.49		
	77	1682.29	6.52778E-03	41.83		
	78	1729.35	4.02778E-02	10.90	Sum	
	80	1813.81	2.20238E-03	64.62	Sum	
M	81	1835.28	2.73022E-03	46.42		
m	82	1847.11	2.42355E-02	12.66		
	83	2010.02	4.72222E-03	42.42		
	84	2080.50	2.22222E-03	35.36		
	85	2118.19	1.19444E-02	20.54		
	87	2292.93	2.93651E-03	42.44	Sum	
	88	2322.47	3.33333E-03	28.87		
	89	2447.20	1.38889E-02	14.14		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	9.95E-02	1.54E+00	1.54E+00
+	NA-22	1274.54		99.94	-2.34E-02	1.57E-01	1.57E-01
+	NA-24	1368.53		99.99	-2.05E+00	2.30E+01	8.94E+01
		2754.09		99.86	3.13E+00		2.30E+01
+	AL-26	1808.65		99.76	-2.04E-02	1.03E-01	1.03E-01
+	K-40	1460.81	*	10.67	4.99E+00	3.31E+00	3.31E+00
+	@ AR-41	1293.64		99.16	0.00E+00	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.09E+00	3.01E-01	3.31E-01
		78.34		96.00	6.06E-01		3.01E-01
+	SC-46	889.25		99.98	-7.65E-02	1.79E-01	1.79E-01
		1120.51		99.99	2.98E+00		5.41E-01
+	V-48	983.52		99.98	-9.34E-02	1.84E-01	2.00E-01
		1312.10		97.50	-5.56E-02		1.84E-01
+	CR-51	320.08		9.83	1.19E-01	1.54E+00	1.54E+00
+	MN-54	834.83		99.97	-1.23E-01	2.01E-01	2.01E-01
+	CO-56	846.75		99.96	4.66E-02	1.67E-01	1.67E-01
		1037.75		14.03	3.57E-01		1.18E+00
		1238.25		67.00	1.70E+00		5.61E-01
		1771.40		15.51	-8.79E-02		6.37E-01
		2598.48		16.90	-3.73E-02		4.88E-01
+	CO-57	122.06	*	85.51	1.84E-01	1.80E-01	1.80E-01
		136.48		10.60	-4.33E-01		1.32E+00
+	CO-58	810.76		99.40	-5.23E-04	1.69E-01	1.69E-01
+	FE-59	1099.22		56.50	3.65E-02	3.29E-01	3.29E-01
		1291.56		43.20	3.84E-02		4.00E-01
+	CO-60	1173.22		100.00	4.34E-03	1.77E-01	1.80E-01
		1332.49		100.00	1.06E-01		1.77E-01
+	ZN-65	1115.52		50.75	-6.36E-02	5.10E-01	5.10E-01
+	GA-67	93.31		35.70	3.07E+00	1.67E+00	1.67E+00
		208.95		2.24	2.06E+00		2.12E+01
		300.22		16.00	-4.72E+01		3.39E+00
+	SE-75	121.11		16.70	1.91E-01	2.34E-01	8.27E-01
		136.00		59.20	-9.54E-02		2.40E-01
		264.65		59.80	5.21E-02		2.34E-01
		279.53		25.20	-4.80E-01		5.46E-01
		400.65		11.40	1.07E+00		1.58E+00
+	RB-82	776.52		13.00	1.23E-01	1.32E+00	1.32E+00
+	RB-83	520.41		46.00	1.10E-01	3.35E-01	3.35E-01
		529.64		30.30	2.15E-02		5.29E-01
		552.65		16.40	5.78E-03		8.90E-01
+	KR-85	513.99		0.43	7.17E+00	3.91E+01	3.91E+01
+	SR-85	513.99		99.27	3.33E-02	1.81E-01	1.81E-01
+	Y-88	898.02		93.40	9.43E-03	1.41E-01	1.99E-01
		1836.01		99.38	6.03E-02		1.41E-01
+	NB-93M	16.57		9.43	-5.94E+01	2.47E+02	2.47E+02
+	NB-94	702.63		100.00	-3.39E-02	1.64E-01	1.64E-01
		871.10		100.00	8.30E-02		1.70E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	9.54E-01	3.21E-01	3.21E-01
+	NB-95M	235.69	*	25.00	8.42E+00	3.59E+00	3.59E+00
+	ZR-95	724.18		43.70	2.39E-02	2.74E-01	3.79E-01
		756.72		55.30	-1.81E-01		2.74E-01
+	MO-99	181.06		6.20	2.41E+00	5.15E+00	1.00E+01
		739.58		12.80	1.67E+00		5.15E+00
		778.00		4.50	2.19E+00		1.27E+01
+	RU-103	497.08		89.00	4.06E-02	1.66E-01	1.66E-01
+	RU-106	621.84		9.80	1.87E-01	1.48E+00	1.48E+00
+	AG-108M	433.93		89.90	-3.28E-02	1.64E-01	1.64E-01
		614.37		90.40	-7.26E-02		1.74E-01
		722.95		90.50	2.37E-02		1.75E-01
+	CD-109	88.03	*	3.72	1.65E+01	5.88E+00	5.88E+00
+	AG-110M	657.75		93.14	3.13E-02	1.54E-01	1.54E-01
		677.61		10.53	3.69E-01		1.36E+00
		706.67		16.46	-3.97E-01		9.67E-01
		763.93		21.98	-4.62E+00		8.80E-01
		884.67		71.63	3.20E-02		2.51E-01
		1384.27		23.94	-6.01E-01		7.88E-01
+	CD-113M	263.70		0.02	1.31E+02	5.89E+02	5.89E+02
+	SN-113	255.12		1.93	2.61E+01	2.14E-01	9.59E+00
		391.69		64.90	-4.50E-02		2.14E-01
+	TE123M	159.00		84.10	5.63E-02	1.82E-01	1.82E-01
+	SB-124	602.71		97.87	-9.26E-03	1.67E-01	1.67E-01
		645.85		7.26	8.13E-01		2.16E+00
		722.78		11.10	2.06E-01		1.52E+00
		1691.02		49.00	4.70E-02		3.19E-01
+	I-125	35.49		6.49	3.48E+00	7.14E+00	7.14E+00
+	SB-125	176.33		6.89	-7.31E-01	5.98E-01	2.11E+00
		427.89		29.33	3.96E-01		5.98E-01
		463.38		10.35	2.37E-01		1.43E+00
		600.56		17.80	1.16E-01		8.54E-01
		635.90		11.32	-2.36E-01		1.23E+00
+	SB-126	414.70		83.30	1.13E-01	2.21E-01	2.74E-01
		666.33		99.60	2.67E-01		2.41E-01
		695.00		99.60	1.17E-01		2.21E-01
		720.50		53.80	-4.74E-02		4.00E-01
+	SN-126	87.57	*	37.00	1.65E+00	5.86E-01	5.86E-01
+	SB-127	473.00		25.00	4.94E-01	1.06E+00	1.64E+00
		685.20		35.70	2.27E-03		1.06E+00
		783.80		14.70	2.94E+00		3.39E+00
+	I-129	29.78		57.00	-2.89E+00	1.53E+00	1.53E+00
		33.60		13.20	3.47E+00		4.25E+00
		39.58		7.52	-3.96E+00		4.28E+00
+	I-131	284.30		6.05	6.14E+00	2.44E-01	4.28E+00
		364.48		81.20	2.14E-03		2.44E-01
		636.97		7.26	-9.61E-01		3.00E+00
		722.89		1.80	1.94E+00		1.43E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TE-132	49.72	13.10	1.17E+01	5.34E-01	6.94E+00
		228.16	88.00	4.16E-01		5.34E-01
+	BA-133	81.00	33.00	1.64E+00	2.62E-01	6.98E-01
		302.84	17.80	1.09E+00		9.18E-01
		356.01	60.00	2.53E-02		2.62E-01
+	I-133	529.87	86.30	6.57E-01	1.62E+01	1.62E+01
+	CS-134	563.23	8.38	1.96E-01	1.82E-01	1.73E+00
		569.32	15.43	2.17E-01		9.22E-01
		604.70	97.60	-2.16E-02		2.40E-01
		795.84	85.40	-7.50E-02		1.82E-01
		801.93	8.73	7.87E-02		1.80E+00
+	CS-135	268.24	16.00	4.09E+00	1.38E+00	1.38E+00
+	I-135	1131.51	22.50	4.32E+05	8.71E+05	1.28E+06
		1260.41	28.60	3.10E+05		8.71E+05
		1678.03	9.54	3.24E+05		2.23E+06
+	CS-136	153.22	7.46	5.31E+00	2.12E-01	3.03E+00
		163.89	4.61	-1.91E+00		4.15E+00
		176.55	13.56	-4.98E-01		1.44E+00
		273.65	12.66	-1.43E+00		1.84E+00
		340.57	48.50	1.07E-01		4.16E-01
		818.50	99.70	1.28E-02		2.12E-01
		1048.07	79.60	4.26E-02		2.83E-01
		1235.34	19.70	3.92E+00		2.24E+00
+	CS-137	661.65	85.12	-1.08E-02	1.80E-01	1.80E-01
+	LA-138	788.74	34.00	-2.91E-02	2.25E-01	5.07E-01
		1435.80	66.00	-1.65E-01		2.25E-01
+	CE-139	165.85	80.35	3.05E-02	1.84E-01	1.84E-01
+	BA-140	162.64	6.70	-5.82E-01	8.02E-01	2.89E+00
		304.84	4.50	1.87E+00		4.45E+00
		423.70	3.20	3.18E+00		7.42E+00
		437.55	2.00	9.48E-01		9.76E+00
		537.32	25.00	1.50E-01		8.02E-01
+	LA-140	328.77	20.50	1.07E+00	2.55E-01	1.08E+00
		487.03	45.50	1.28E-01		4.50E-01
		815.85	23.50	4.33E-01		9.49E-01
		1596.49	95.49	2.74E-02		2.55E-01
+	CE-141	145.44	48.40	1.24E+00	4.25E-01	4.25E-01
+	CE-143	57.36	11.80	-6.68E+00	1.49E+01	3.06E+01
		293.26	42.00	1.49E+02		1.49E+01
		664.55	5.20	3.35E+01		5.64E+01
+	CE-144	133.54	10.80	9.10E-01	1.30E+00	1.30E+00
+	PM-144	476.78	42.00	-2.09E-01	1.45E-01	3.49E-01
		618.01	98.60	-9.17E-02		1.45E-01
		696.49	99.49	-3.92E-03		1.62E-01
+	PM-145	36.85	21.70	1.89E-01	9.36E-01	1.78E+00
		37.36	39.70	-3.78E-01		9.36E-01
		42.30	15.10	-1.22E-02		1.95E+00
		72.40	2.31	-1.84E+01		1.01E+01
+	PM-146	453.90	39.94	4.74E-02	3.84E-01	3.84E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90		14.01	3.49E-01	3.84E-01	1.04E+00
		747.13		13.10	-8.30E-01		1.12E+00
+	ND-147	91.11		28.90	-3.07E+00	8.96E-01	8.96E-01
		531.02		13.10	-5.14E-03		1.71E+00
+	PM-149	285.90	*	3.10	4.80E+01	9.88E+01	9.88E+01
+	EU-152	121.78		20.50	6.84E-01	6.60E-01	6.60E-01
		244.69		5.40	4.90E-01		3.54E+00
		344.27		19.13	1.79E-01		7.18E-01
		778.89		9.20	2.60E-01		1.53E+00
		964.01		10.40	1.07E+00		1.81E+00
		1085.78		7.22	-5.81E-01		2.08E+00
		1112.02		9.60	-3.90E-01		1.75E+00
		1407.95		14.94	3.74E+00		1.91E+00
+	GD-153	97.43		31.30	-7.23E-01	5.05E-01	5.05E-01
		103.18		22.20	-9.58E-02		5.91E-01
+	EU-154	123.07		40.50	4.18E-01	3.38E-01	3.38E-01
		723.30		19.70	1.09E-01		8.03E-01
		873.19		11.50	-1.97E-01		1.44E+00
		996.32		10.30	2.06E-01		1.70E+00
		1004.76		17.90	2.98E-01		9.29E-01
		1274.45		35.50	-6.56E-02		4.42E-01
+	EU-155	86.50		30.90	-2.33E+00	6.34E-01	7.25E-01
		105.30		20.70	-2.46E-01		6.34E-01
+	EU-156	811.77		10.40	5.41E-01	1.98E+00	1.98E+00
		1153.47		7.20	4.40E+00		4.39E+00
		1230.71		8.90	-9.09E-02		2.67E+00
+	HO-166M	184.41		72.60	1.43E+00	2.58E-01	3.01E-01
		280.45		29.60	-3.07E-01		4.59E-01
		410.94		11.10	7.53E-01		1.49E+00
		711.69		54.10	-2.18E-01		2.58E-01
+	TM-171	66.72		0.14	1.88E+03	2.28E+02	2.28E+02
+	HF-172	81.75		4.52	1.20E+01	1.17E+00	5.64E+00
		125.81		11.30	5.59E-02		1.17E+00
+	LU-172	181.53		20.60	3.32E-01	4.65E-01	1.33E+00
		810.06		16.63	-1.11E-01		1.83E+00
		912.12		15.25	1.07E-01		2.20E+00
		1093.66		62.50	9.42E-03		4.65E-01
+	LU-173	100.72		5.24	-2.14E+00	1.10E+00	2.68E+00
		272.11		21.20	4.98E+00		1.10E+00
+	HF-175	343.40		84.00	4.30E-02	1.71E-01	1.71E-01
+	LU-176	88.34		13.30	6.84E+00	1.41E-01	1.56E+00
		201.83		86.00	4.56E-03		1.68E-01
		306.78		94.00	4.65E-02		1.41E-01
+	TA-182	67.75		41.20	7.33E+00	6.27E-01	7.85E-01
		1121.30		34.90	8.23E+00		1.53E+00
		1189.05		16.23	-5.37E-01		9.93E-01
		1221.41		26.98	-1.87E-01		6.27E-01
		1231.02		11.44	-5.66E-02		1.66E+00
+	IR-192	308.46		29.68	5.12E-02	3.31E-01	4.23E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	4.85E-02	3.31E-01	3.31E-01
+	HG-203	279.19		77.30	-1.59E-01	1.84E-01	1.84E-01
+	BI-207	569.67		97.72	5.25E-02	1.51E-01	1.51E-01
		1063.62		74.90	9.90E-02		2.19E-01
+	TL-208	583.14	*	30.22	5.09E-01	2.23E-01	6.42E-01
		860.37		4.48	-1.48E+00		3.60E+00
		2614.66	*	35.85	3.87E-01		2.23E-01
+	BI-210M	262.00		45.00	-2.10E-02	3.08E-01	3.08E-01
		300.00		23.00	-9.89E+00		7.11E-01
+	PB-210	46.50	*	4.25	5.68E+01	8.36E+00	8.36E+00
+	PB-211	404.84	*	2.90	7.90E+00	8.06E+00	8.06E+00
		831.96	*	2.90	7.31E+00		1.39E+01
+	BI-212	727.17		11.80	8.92E-01	1.32E+00	1.32E+00
		1620.62		2.75	-1.25E+00		5.40E+00
+	PB-212	238.63	*	44.60	5.78E-01	6.95E-01	6.95E-01
		300.09	*	3.41	9.68E+00		1.04E+01
+	BI-214	609.31	*	46.30	1.77E+01	5.63E-01	5.63E-01
		1120.29	*	15.10	1.88E+01		1.73E+00
		1764.49	*	15.80	1.97E+01		1.29E+00
		2204.22	*	4.98	1.77E+01		3.51E+00
+	PB-214	295.21	*	19.19	2.17E+01	6.75E-01	1.82E+00
		351.92	*	37.19	2.27E+01		6.75E-01
+	RN-219	401.80	*	6.50	6.09E+00	3.58E+00	3.58E+00
+	RA-223	323.87	*	3.88	5.40E+00	7.53E+00	7.53E+00
+	RA-224	240.98		3.95	3.30E+01	6.42E+00	6.42E+00
+	RA-225	40.00		31.00	-1.22E+00	1.32E+00	1.32E+00
+	RA-226	186.21	*	3.28	3.53E+01	7.76E+00	7.76E+00
+	TH-227	50.10		8.40	5.43E+00	2.64E+00	3.22E+00
		236.00	*	11.50	6.20E+00		2.64E+00
		256.20	*	6.30	8.69E+00		4.40E+00
+	AC-228	338.32		11.40	1.70E+00	6.81E-01	1.39E+00
		911.07		27.70	2.25E-01		6.81E-01
		969.11		16.60	1.86E-01		1.09E+00
+	TH-230	48.44		16.90	2.89E+00	2.12E+00	2.12E+00
		62.85		4.60	3.98E+00		4.87E+00
		67.67		0.37	7.89E+02		8.46E+01
+	PA-231	283.67		1.60	7.33E+00	9.72E+00	9.72E+00
		302.67	*	2.30	9.79E+00		1.55E+01
+	TH-231	25.64		14.70	4.23E+00	2.93E+00	1.24E+01
		84.21	*	6.40	1.42E+01		2.93E+00
+	PA-233	311.98		38.60	-2.41E-01	3.64E-01	3.64E-01
+	PA-234	131.20		20.40	-2.46E-01	6.65E-01	6.65E-01
		733.99		8.80	-8.85E-01		1.55E+00
		946.00		12.00	3.43E-01		1.41E+00
+	PA-234M	1001.03		0.92	-2.94E+00	1.85E+01	1.85E+01
+	TH-234	63.29	*	3.80	1.29E+01	1.03E+01	1.03E+01
+	U-235	143.76		10.50	5.74E+00	1.74E+00	1.74E+00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35		4.70	-1.39E+00	1.74E+00	3.02E+00
		205.31		4.70	2.06E+00		3.08E+00
+	NP-237	86.50		12.60	-5.69E+00	1.77E+00	1.77E+00
+	NP-239	106.10		22.70	-1.18E+00	3.04E+00	3.04E+00
		228.18		10.70	5.42E+00		6.96E+00
		277.60		14.10	-4.49E+00		4.86E+00
+	AM-241	59.54		35.90	-1.27E-02	5.94E-01	5.94E-01
+	AM-243	74.67	*	66.00	1.91E+00	5.45E-01	5.45E-01
+	CM-243	209.75		3.29	-1.84E+00	9.32E-01	4.35E+00
		228.14		10.60	1.04E+00		1.34E+00
		277.60		14.00	-8.60E-01		9.32E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.54E+00	1.54E+00	9.95E-02	7.44E-01
	NA-22	1274.54		99.94	1.57E-01	1.57E-01	-2.34E-02	7.31E-02
	NA-24	1368.53		99.99	8.94E+01	2.30E+01	-2.05E+00	4.16E+01
		2754.09		99.86	2.30E+01		3.13E+00	7.28E+00
	AL-26	1808.65		99.76	1.03E-01	1.03E-01	-2.04E-02	4.41E-02
+	K-40	1460.81	*	10.67	3.31E+00	3.31E+00	4.99E+00	1.60E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	0.00E+00	1.00E+20
	TI-44	67.88		94.40	3.31E-01	3.01E-01	3.09E+00	1.64E-01
		78.34		96.00	3.01E-01		6.06E-01	1.50E-01
	SC-46	889.25		99.98	1.79E-01	1.79E-01	-7.65E-02	8.51E-02
		1120.51		99.99	5.41E-01		2.98E+00	2.65E-01
	V-48	983.52		99.98	2.00E-01	1.84E-01	-9.34E-02	9.43E-02

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	V-48	1312.10		97.50	1.84E-01	1.84E-01	-5.56E-02	8.46E-02
	CR-51	320.08		9.83	1.54E+00	1.54E+00	1.19E-01	7.48E-01
	MN-54	834.83		99.97	2.01E-01	2.01E-01	-1.23E-01	9.64E-02
	CO-56	846.75		99.96	1.67E-01	1.67E-01	4.66E-02	7.94E-02
		1037.75		14.03	1.18E+00		3.57E-01	5.54E-01
		1238.25		67.00	5.61E-01		1.70E+00	2.72E-01
		1771.40		15.51	6.37E-01		-8.79E-02	2.71E-01
		2598.48		16.90	4.88E-01		-3.73E-02	1.94E-01
+	CO-57	122.06	*	85.51	1.80E-01	1.80E-01	1.84E-01	8.89E-02
		136.48		10.60	1.32E+00		-4.33E-01	6.51E-01
	CO-58	810.76		99.40	1.69E-01	1.69E-01	-5.23E-04	8.05E-02
	FE-59	1099.22		56.50	3.29E-01	3.29E-01	3.65E-02	1.55E-01
		1291.56		43.20	4.00E-01		3.84E-02	1.86E-01
	CO-60	1173.22		100.00	1.80E-01	1.77E-01	4.34E-03	8.45E-02
		1332.49		100.00	1.77E-01		1.06E-01	8.29E-02
	ZN-65	1115.52		50.75	5.10E-01	5.10E-01	-6.36E-02	2.45E-01
	GA-67	93.31		35.70	1.67E+00	1.67E+00	3.07E+00	8.23E-01
		208.95		2.24	2.12E+01		2.06E+00	1.04E+01
		300.22		16.00	3.39E+00		-4.72E+01	1.66E+00
	SE-75	121.11		16.70	8.27E-01	2.34E-01	1.91E-01	4.06E-01
		136.00		59.20	2.40E-01		-9.54E-02	1.18E-01
		264.65		59.80	2.34E-01		5.21E-02	1.14E-01
		279.53		25.20	5.46E-01		-4.80E-01	2.66E-01
		400.65		11.40	1.58E+00		1.07E+00	7.71E-01
	RB-82	776.52		13.00	1.32E+00	1.32E+00	1.23E-01	6.24E-01
	RB-83	520.41		46.00	3.35E-01	3.35E-01	1.10E-01	1.61E-01
		529.64		30.30	5.29E-01		2.15E-02	2.55E-01
		552.65		16.40	8.90E-01		5.78E-03	4.26E-01
	KR-85	513.99		0.43	3.91E+01	3.91E+01	7.17E+00	1.89E+01
	SR-85	513.99		99.27	1.81E-01	1.81E-01	3.33E-02	8.78E-02
	Y-88	898.02		93.40	1.99E-01	1.41E-01	9.43E-03	9.48E-02
		1836.01		99.38	1.41E-01		6.03E-02	6.30E-02
	NB-93M	16.57		9.43	2.47E+02	2.47E+02	-5.94E+01	1.19E+02
	NB-94	702.63		100.00	1.64E-01	1.64E-01	-3.39E-02	7.85E-02
		871.10		100.00	1.70E-01		8.30E-02	8.08E-02
	NB-95	765.79		99.81	3.21E-01	3.21E-01	9.54E-01	1.56E-01
	NB-95M	235.69	*	25.00	3.59E+00	3.59E+00	8.42E+00	1.78E+00
	ZR-95	724.18		43.70	3.79E-01	2.74E-01	2.39E-02	1.81E-01
		756.72		55.30	2.74E-01		-1.81E-01	1.30E-01
	MO-99	181.06		6.20	1.00E+01	5.15E+00	2.41E+00	4.93E+00
		739.58		12.80	5.15E+00		1.67E+00	2.46E+00
		778.00		4.50	1.27E+01		2.19E+00	6.01E+00
	RU-103	497.08		89.00	1.66E-01	1.66E-01	4.06E-02	7.99E-02
	RU-106	621.84		9.80	1.48E+00	1.48E+00	1.87E-01	7.05E-01
	AG-108M	433.93		89.90	1.64E-01	1.64E-01	-3.28E-02	7.91E-02
		614.37		90.40	1.74E-01		-7.26E-02	8.37E-02
		722.95		90.50	1.75E-01		2.37E-02	8.33E-02
+	CD-109	88.03	*	3.72	5.88E+00	5.88E+00	1.65E+01	2.91E+00
	AG-110M	657.75		93.14	1.54E-01	1.54E-01	3.13E-02	7.35E-02
		677.61		10.53	1.36E+00		3.69E-01	6.48E-01
		706.67		16.46	9.67E-01		-3.97E-01	4.62E-01
		763.93		21.98	8.80E-01		-4.62E+00	4.22E-01
		884.67		71.63	2.51E-01		3.20E-02	1.20E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	1384.27		23.94	7.88E-01	1.54E-01	-6.01E-01	3.69E-01
	CD-113M	263.70		0.02	5.89E+02	5.89E+02	1.31E+02	2.87E+02
	SN-113	255.12		1.93	9.59E+00	2.14E-01	2.61E+01	4.70E+00
		391.69		64.90	2.14E-01		-4.50E-02	1.03E-01
	TE123M	159.00		84.10	1.82E-01	1.82E-01	5.63E-02	8.96E-02
	SB-124	602.71		97.87	1.67E-01	1.67E-01	-9.26E-03	8.00E-02
		645.85		7.26	2.16E+00		8.13E-01	1.03E+00
		722.78		11.10	1.52E+00		2.06E-01	7.25E-01
		1691.02		49.00	3.19E-01		4.70E-02	1.45E-01
	I-125	35.49		6.49	7.14E+00	7.14E+00	3.48E+00	3.51E+00
	SB-125	176.33		6.89	2.11E+00	5.98E-01	-7.31E-01	1.03E+00
		427.89		29.33	5.98E-01		3.96E-01	2.91E-01
		463.38		10.35	1.43E+00		2.37E-01	6.92E-01
		600.56		17.80	8.54E-01		1.16E-01	4.10E-01
		635.90		11.32	1.23E+00		-2.36E-01	5.86E-01
	SB-126	414.70		83.30	2.74E-01	2.21E-01	1.13E-01	1.33E-01
		666.33		99.60	2.41E-01		2.67E-01	1.16E-01
		695.00		99.60	2.21E-01		1.17E-01	1.06E-01
		720.50		53.80	4.00E-01		-4.74E-02	1.91E-01
+	SN-126	87.57	*	37.00	5.86E-01	5.86E-01	1.65E+00	2.90E-01
	SB-127	473.00		25.00	1.64E+00	1.06E+00	4.94E-01	7.89E-01
		685.20		35.70	1.06E+00		2.27E-03	5.02E-01
		783.80		14.70	3.39E+00		2.94E+00	1.62E+00
	I-129	29.78		57.00	1.53E+00	1.53E+00	-2.89E+00	7.53E-01
		33.60		13.20	4.25E+00		3.47E+00	2.09E+00
		39.58		7.52	4.28E+00		-3.96E+00	2.11E+00
	I-131	284.30		6.05	4.28E+00	2.44E-01	6.14E+00	2.09E+00
		364.48		81.20	2.44E-01		2.14E-03	1.18E-01
		636.97		7.26	3.00E+00		-9.61E-01	1.43E+00
		722.89		1.80	1.43E+01		1.94E+00	6.81E+00
	TE-132	49.72		13.10	6.94E+00	5.34E-01	1.17E+01	3.43E+00
		228.16		88.00	5.34E-01		4.16E-01	2.61E-01
	BA-133	81.00		33.00	6.98E-01	2.62E-01	1.64E+00	3.46E-01
		302.84		17.80	9.18E-01		1.09E+00	4.48E-01
		356.01		60.00	2.62E-01		2.53E-02	1.28E-01
	I-133	529.87		86.30	1.62E+01	1.62E+01	6.57E-01	7.78E+00
	CS-134	563.23		8.38	1.73E+00	1.82E-01	1.96E-01	8.31E-01
		569.32		15.43	9.22E-01		2.17E-01	4.42E-01
		604.70		97.60	2.40E-01		-2.16E-02	1.17E-01
		795.84		85.40	1.82E-01		-7.50E-02	8.64E-02
		801.93		8.73	1.80E+00		7.87E-02	8.54E-01
	CS-135	268.24		16.00	1.38E+00	1.38E+00	4.09E+00	6.78E-01
	I-135	1131.51		22.50	1.28E+06	8.71E+05	4.32E+05	6.05E+05
		1260.41		28.60	8.71E+05		3.10E+05	4.07E+05
		1678.03		9.54	2.23E+06		3.24E+05	1.01E+06
	CS-136	153.22		7.46	3.03E+00	2.12E-01	5.31E+00	1.49E+00
		163.89		4.61	4.15E+00		-1.91E+00	2.04E+00
		176.55		13.56	1.44E+00		-4.98E-01	7.05E-01
		273.65		12.66	1.84E+00		-1.43E+00	9.04E-01
		340.57		48.50	4.16E-01		1.07E-01	2.02E-01
		818.50		99.70	2.12E-01		1.28E-02	1.01E-01
		1048.07		79.60	2.83E-01		4.26E-02	1.34E-01
		1235.34		19.70	2.24E+00		3.92E+00	1.08E+00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-137	661.65		85.12	1.80E-01	1.80E-01	-1.08E-02	8.59E-02
	LA-138	788.74		34.00	5.07E-01	2.25E-01	-2.91E-02	2.42E-01
		1435.80		66.00	2.25E-01		-1.65E-01	1.03E-01
	CE-139	165.85		80.35	1.84E-01	1.84E-01	3.05E-02	9.02E-02
	BA-140	162.64		6.70	2.89E+00	8.02E-01	-5.82E-01	1.42E+00
		304.84		4.50	4.45E+00		1.87E+00	2.17E+00
		423.70		3.20	7.42E+00		3.18E+00	3.61E+00
		437.55		2.00	9.76E+00		9.48E-01	4.71E+00
		537.32		25.00	8.02E-01		1.50E-01	3.86E-01
	LA-140	328.77		20.50	1.08E+00	2.55E-01	1.07E+00	5.26E-01
		487.03		45.50	4.50E-01		1.28E-01	2.17E-01
		815.85		23.50	9.49E-01		4.33E-01	4.52E-01
		1596.49		95.49	2.55E-01		2.74E-02	1.18E-01
	CE-141	145.44		48.40	4.25E-01	4.25E-01	1.24E+00	2.10E-01
	CE-143	57.36		11.80	3.06E+01	1.49E+01	-6.68E+00	1.51E+01
		293.26		42.00	1.49E+01		1.49E+02	7.39E+00
		664.55		5.20	5.64E+01		3.35E+01	2.71E+01
	CE-144	133.54		10.80	1.30E+00	1.30E+00	9.10E-01	6.39E-01
	PM-144	476.78		42.00	3.49E-01	1.45E-01	-2.09E-01	1.68E-01
		618.01		98.60	1.45E-01		-9.17E-02	6.95E-02
		696.49		99.49	1.62E-01		-3.92E-03	7.75E-02
	PM-145	36.85		21.70	1.78E+00	9.36E-01	1.89E-01	8.73E-01
		37.36		39.70	9.36E-01		-3.78E-01	4.60E-01
		42.30		15.10	1.95E+00		-1.22E-02	9.58E-01
		72.40		2.31	1.01E+01		-1.84E+01	5.01E+00
	PM-146	453.90		39.94	3.84E-01	3.84E-01	4.74E-02	1.86E-01
		735.90		14.01	1.04E+00		3.49E-01	4.93E-01
		747.13		13.10	1.12E+00		-8.30E-01	5.29E-01
	ND-147	91.11		28.90	8.96E-01	8.96E-01	-3.07E+00	4.43E-01
		531.02		13.10	1.71E+00		-5.14E-03	8.27E-01
+	PM-149	285.90	*	3.10	9.88E+01	9.88E+01	4.80E+01	4.91E+01
	EU-152	121.78		20.50	6.60E-01	6.60E-01	6.84E-01	3.25E-01
		244.69		5.40	3.54E+00		4.90E-01	1.74E+00
		344.27		19.13	7.18E-01		1.79E-01	3.48E-01
		778.89		9.20	1.53E+00		2.60E-01	7.25E-01
		964.01		10.40	1.81E+00		1.07E+00	8.60E-01
		1085.78		7.22	2.08E+00		-5.81E-01	9.73E-01
		1112.02		9.60	1.75E+00		-3.90E-01	8.24E-01
		1407.95		14.94	1.91E+00		3.74E+00	9.16E-01
	GD-153	97.43		31.30	5.05E-01	5.05E-01	-7.23E-01	2.49E-01
		103.18		22.20	5.91E-01		-9.58E-02	2.91E-01
	EU-154	123.07		40.50	3.38E-01	3.38E-01	4.18E-01	1.66E-01
		723.30		19.70	8.03E-01		1.09E-01	3.83E-01
		873.19		11.50	1.44E+00		-1.97E-01	6.85E-01
		996.32		10.30	1.70E+00		2.06E-01	8.03E-01
		1004.76		17.90	9.29E-01		2.98E-01	4.39E-01
		1274.45		35.50	4.42E-01		-6.56E-02	2.05E-01
	EU-155	86.50		30.90	7.25E-01	6.34E-01	-2.33E+00	3.59E-01
		105.30		20.70	6.34E-01		-2.46E-01	3.12E-01
	EU-156	811.77		10.40	1.98E+00	1.98E+00	5.41E-01	9.39E-01
		1153.47		7.20	4.39E+00		4.40E+00	2.10E+00
		1230.71		8.90	2.67E+00		-9.09E-02	1.26E+00
	HO-166M	184.41		72.60	3.01E-01	2.58E-01	1.43E+00	1.49E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	280.45		29.60	4.59E-01	2.58E-01	-3.07E-01	2.24E-01
		410.94		11.10	1.49E+00		7.53E-01	7.24E-01
		711.69		54.10	2.58E-01		-2.18E-01	1.23E-01
	TM-171	66.72		0.14	2.28E+02	2.28E+02	1.88E+03	1.13E+02
	HF-172	81.75		4.52	5.64E+00	1.17E+00	1.20E+01	2.79E+00
		125.81		11.30	1.17E+00		5.59E-02	5.77E-01
	LU-172	181.53		20.60	1.33E+00	4.65E-01	3.32E-01	6.55E-01
		810.06		16.63	1.83E+00		-1.11E-01	8.72E-01
		912.12		15.25	2.20E+00		1.07E-01	1.05E+00
		1093.66		62.50	4.65E-01		9.42E-03	2.18E-01
	LU-173	100.72		5.24	2.68E+00	1.10E+00	-2.14E+00	1.32E+00
		272.11		21.20	1.10E+00		4.98E+00	5.43E-01
	HF-175	343.40		84.00	1.71E-01	1.71E-01	4.30E-02	8.28E-02
	LU-176	88.34		13.30	1.56E+00	1.41E-01	6.84E+00	7.70E-01
		201.83		86.00	1.68E-01		4.56E-03	8.21E-02
		306.78		94.00	1.41E-01		4.65E-02	6.86E-02
	TA-182	67.75		41.20	7.85E-01	6.27E-01	7.33E+00	3.90E-01
		1121.30		34.90	1.53E+00		8.23E+00	7.47E-01
		1189.05		16.23	9.93E-01		-5.37E-01	4.62E-01
		1221.41		26.98	6.27E-01		-1.87E-01	2.93E-01
		1231.02		11.44	1.66E+00		-5.66E-02	7.83E-01
	IR-192	308.46		29.68	4.23E-01	3.31E-01	5.12E-02	2.05E-01
		468.07		48.10	3.31E-01		4.85E-02	1.60E-01
	HG-203	279.19		77.30	1.84E-01	1.84E-01	-1.59E-01	8.94E-02
	BI-207	569.67		97.72	1.51E-01	1.51E-01	5.25E-02	7.25E-02
		1063.62		74.90	2.19E-01		9.90E-02	1.03E-01
+	TL-208	583.14	*	30.22	6.42E-01	2.23E-01	5.09E-01	3.11E-01
		860.37		4.48	3.60E+00		-1.48E+00	1.71E+00
		2614.66	*	35.85	2.23E-01		3.87E-01	8.90E-02
	BI-210M	262.00		45.00	3.08E-01	3.08E-01	-2.10E-02	1.50E-01
		300.00		23.00	7.11E-01		-9.89E+00	3.47E-01
+	PB-210	46.50	*	4.25	8.36E+00	8.36E+00	5.68E+01	4.14E+00
+	PB-211	404.84	*	2.90	8.06E+00	8.06E+00	7.90E+00	3.95E+00
		831.96	*	2.90	1.39E+01		7.31E+00	6.80E+00
	BI-212	727.17		11.80	1.32E+00	1.32E+00	8.92E-01	6.31E-01
		1620.62		2.75	5.40E+00		-1.25E+00	2.46E+00
+	PB-212	238.63	*	44.60	6.95E-01	6.95E-01	5.78E-01	3.44E-01
		300.09	*	3.41	1.04E+01		9.68E+00	5.15E+00
+	BI-214	609.31	*	46.30	5.63E-01	5.63E-01	1.77E+01	2.74E-01
		1120.29	*	15.10	1.73E+00		1.88E+01	8.31E-01
		1764.49	*	15.80	1.29E+00		1.97E+01	6.02E-01
		2204.22	*	4.98	3.51E+00		1.77E+01	1.60E+00
+	PB-214	295.21	*	19.19	1.82E+00	6.75E-01	2.17E+01	9.02E-01
		351.92	*	37.19	6.75E-01		2.27E+01	3.32E-01
+	RN-219	401.80	*	6.50	3.58E+00	3.58E+00	6.09E+00	1.75E+00
+	RA-223	323.87	*	3.88	7.53E+00	7.53E+00	5.40E+00	3.72E+00
	RA-224	240.98		3.95	6.42E+00	6.42E+00	3.30E+01	3.17E+00
	RA-225	40.00		31.00	1.32E+00	1.32E+00	-1.22E+00	6.48E-01
+	RA-226	186.21	*	3.28	7.76E+00	7.76E+00	3.53E+01	3.84E+00
+	TH-227	50.10		8.40	3.22E+00	2.64E+00	5.43E+00	1.59E+00
		236.00	*	11.50	2.64E+00		6.20E+00	1.31E+00
		256.20	*	6.30	4.40E+00		8.69E+00	2.17E+00
	AC-228	338.32		11.40	1.39E+00	6.81E-01	1.70E+00	6.75E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	911.07		27.70	6.81E-01	6.81E-01	2.25E-01	3.25E-01
		969.11		16.60	1.09E+00		1.86E-01	5.18E-01
	TH-230	48.44		16.90	2.12E+00	2.12E+00	2.89E+00	1.05E+00
		62.85		4.60	4.87E+00		3.98E+00	2.41E+00
		67.67		0.37	8.46E+01		7.89E+02	4.20E+01
+	PA-231	283.67		1.60	9.72E+00	9.72E+00	7.33E+00	4.75E+00
		302.67	*	2.30	1.55E+01		9.79E+00	7.68E+00
+	TH-231	25.64		14.70	1.24E+01	2.93E+00	4.23E+00	6.10E+00
		84.21	*	6.40	2.93E+00		1.42E+01	1.45E+00
	PA-233	311.98		38.60	3.64E-01	3.64E-01	-2.41E-01	1.76E-01
	PA-234	131.20		20.40	6.65E-01	6.65E-01	-2.46E-01	3.27E-01
		733.99		8.80	1.55E+00		-8.85E-01	7.36E-01
		946.00		12.00	1.41E+00		3.43E-01	6.67E-01
	PA-234M	1001.03		0.92	1.85E+01	1.85E+01	-2.94E+00	8.76E+00
+	TH-234	63.29	*	3.80	1.03E+01	1.03E+01	1.29E+01	5.10E+00
	U-235	143.76		10.50	1.74E+00	1.74E+00	5.74E+00	8.58E-01
		163.35		4.70	3.02E+00		-1.39E+00	1.48E+00
		205.31		4.70	3.08E+00		2.06E+00	1.51E+00
	NP-237	86.50		12.60	1.77E+00	1.77E+00	-5.69E+00	8.79E-01
	NP-239	106.10		22.70	3.04E+00	3.04E+00	-1.18E+00	1.49E+00
		228.18		10.70	6.96E+00		5.42E+00	3.40E+00
		277.60		14.10	4.86E+00		-4.49E+00	2.37E+00
	AM-241	59.54		35.90	5.94E-01	5.94E-01	-1.27E-02	2.93E-01
+	AM-243	74.67	*	66.00	5.45E-01	5.45E-01	1.91E+00	2.71E-01
	CM-243	209.75		3.29	4.35E+00	9.32E-01	-1.84E+00	2.13E+00
		228.14		10.60	1.34E+00		1.04E+00	6.54E-01
		277.60		14.00	9.32E-01		-8.60E-01	4.53E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506043-03

FEEBRISID-09-088-089

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-09-088-089

Elapsed Live time: 3600
Elapsed Real Time: 3604

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	298	318	261	382	363	337
25:	185	203	287	339	235	186	209	351
33:	357	227	230	233	273	244	214	240
41:	274	271	284	276	322	593	1674	644
49:	301	436	600	334	342	483	363	341
57:	387	401	421	433	437	518	525	679
65:	535	548	836	2605	1394	488	482	512
73:	513	601	1396	1128	1531	2007	660	663
81:	864	947	538	1462	1046	478	558	922
89:	538	554	471	325	451	452	647	410
97:	300	340	346	313	243	205	248	261
105:	219	223	232	245	249	232	230	222
113:	261	231	243	221	227	228	194	191
121:	237	259	268	218	206	201	222	245
129:	228	216	224	229	219	232	241	231
137:	197	214	246	239	247	245	258	563
145:	582	245	240	243	254	239	249	214
153:	217	384	481	211	228	214	245	227
161:	215	212	197	206	189	199	214	199
169:	196	179	186	189	177	204	206	188
177:	186	189	188	200	217	190	209	227
185:	212	708	755	249	192	172	186	158
193:	163	195	157	155	190	172	177	162
201:	157	163	167	162	151	193	161	136
209:	127	162	180	156	165	134	143	121
217:	124	129	132	148	147	129	117	110
225:	113	134	131	141	131	133	116	118
233:	119	133	163	417	338	156	249	177
241:	210	763	642	151	96	118	118	107
249:	96	113	82	98	120	157	153	222
257:	279	107	140	124	111	100	99	100
265:	117	88	98	103	266	488	376	343
273:	129	111	114	99	88	82	83	83
281:	97	105	99	138	109	155	133	95
289:	77	90	79	92	97	178	1363	1549
297:	272	89	97	182	162	91	142	100
305:	115	71	63	76	67	49	56	60
313:	81	74	81	76	64	65	83	72
321:	67	76	87	150	115	75	72	83
329:	92	182	111	78	78	93	84	76
337:	65	123	155	69	76	56	77	78
345:	73	65	63	74	78	134	872	3004
353:	1606	179	79	77	65	48	45	44
361:	48	45	51	58	46	53	48	47

369:	61	53	53	55	56	35	58	56

Sample Title: FEEBRISID-09-088-089

Channel								
377:	49	52	48	55	57	44	42	57
385:	64	60	72	81	77	75	45	56
393:	54	51	54	64	62	61	50	52
401:	77	184	105	63	133	91	54	47
409:	65	57	52	54	65	62	46	57
417:	58	61	55	45	39	55	70	53
425:	66	67	81	80	41	43	46	50
433:	40	44	41	33	37	43	43	38
441:	39	25	45	42	62	48	45	47
449:	35	40	41	42	41	48	51	35
457:	37	43	43	27	35	46	33	40
465:	37	30	45	41	33	46	41	37
473:	39	32	34	30	23	40	37	49
481:	46	43	31	36	32	35	50	35
489:	31	38	34	28	23	24	29	22
497:	32	34	26	28	31	20	28	31
505:	38	33	30	23	45	67	79	57
513:	43	31	37	23	31	34	33	39
521:	28	34	29	24	29	29	33	31
529:	33	25	40	28	43	45	41	33
537:	25	27	26	36	23	26	20	31
545:	25	44	34	28	29	34	23	31
553:	15	30	22	24	27	20	24	22
561:	34	29	37	30	19	16	25	31
569:	30	29	22	23	32	25	33	28
577:	22	21	25	38	27	32	57	48
585:	27	27	16	24	24	34	23	24
593:	27	36	28	24	20	21	33	24
601:	34	25	20	29	24	33	44	272
609:	1595	1494	230	42	38	34	24	17
617:	22	18	17	28	29	28	13	22
625:	19	23	21	20	21	17	24	23
633:	29	16	20	19	17	16	24	19
641:	22	13	17	27	14	26	25	24
649:	22	19	21	20	14	24	13	21
657:	19	29	8	26	23	17	18	20
665:	50	57	29	12	26	18	19	30
673:	27	16	28	13	23	13	21	18
681:	16	15	12	19	17	17	24	17
689:	20	15	15	27	20	22	28	21
697:	22	26	28	16	20	27	40	24
705:	28	15	24	27	20	15	16	24
713:	16	10	18	24	20	24	20	27
721:	18	20	15	25	28	17	22	16
729:	19	18	14	13	13	14	22	14
737:	18	20	21	17	15	29	27	20
745:	17	27	11	10	23	12	18	21
753:	22	18	17	12	21	16	17	11
761:	23	18	25	19	22	38	57	171
769:	138	33	23	23	18	30	12	12
777:	16	9	16	19	16	16	14	19
785:	37	41	30	15	17	13	21	19
793:	21	20	18	16	21	14	12	17

801:	25	19	15	18	17	58	36	25

Sample Title: FEEBRISID-09-088-089

Channel								
809:	17	18	13	13	22	18	24	14
817:	17	15	23	19	15	18	14	13
825:	14	16	18	12	16	17	39	45
833:	33	22	22	14	22	32	44	28
841:	18	13	23	19	14	13	11	21
849:	21	18	16	17	20	20	17	25
857:	18	18	16	18	13	17	17	16
865:	22	18	17	13	18	18	28	15
873:	19	17	14	10	20	20	14	21
881:	19	11	17	22	28	17	17	24
889:	20	14	16	17	14	23	16	16
897:	19	20	24	21	20	19	20	17
905:	17	16	23	17	21	13	42	26
913:	12	17	14	21	20	19	13	13
921:	16	18	14	21	21	12	8	14
929:	18	13	15	21	55	107	65	17
937:	18	13	19	17	16	12	19	19
945:	10	8	14	19	21	20	15	8
953:	17	14	6	10	7	15	14	15
961:	18	14	23	28	17	16	17	10
969:	18	20	20	21	16	15	13	14
977:	9	15	17	18	10	8	12	17
985:	12	13	16	15	13	16	17	19
993:	11	13	16	18	14	17	19	10
1001:	13	21	14	8	12	19	9	13
1009:	11	12	12	11	13	13	10	10
1017:	14	11	10	13	19	13	13	10
1025:	8	14	14	18	14	15	11	16
1033:	13	12	12	9	15	11	13	7
1041:	14	7	8	12	15	12	9	9
1049:	10	15	21	24	10	14	10	13
1057:	14	6	9	10	14	13	11	12
1065:	12	16	7	10	8	20	6	14
1073:	7	13	10	9	12	11	7	11
1081:	14	7	11	9	9	9	6	16
1089:	8	18	6	13	10	11	14	10
1097:	15	10	9	13	11	19	10	12
1105:	12	14	16	10	9	15	15	12
1113:	10	10	12	8	19	26	113	372
1121:	242	49	20	12	15	12	11	12
1129:	17	12	16	16	21	19	19	12
1137:	15	12	8	11	10	10	8	15
1145:	5	10	17	19	11	12	21	7
1153:	12	38	44	38	21	11	8	14
1161:	10	12	11	9	9	15	8	10
1169:	8	14	13	12	12	14	14	8
1177:	15	14	9	12	13	18	15	14
1185:	9	7	10	8	8	13	11	6
1193:	17	8	9	8	11	12	10	4
1201:	11	9	8	11	8	6	13	14
1209:	8	7	9	16	8	15	12	8
1217:	7	11	8	13	8	7	12	8
1225:	17	11	13	13	13	13	9	12

1233:	8	17	10	23	87	126	66	14

Sample Title: FEEBRISID-09-088-089

Channel								
1241:	12	8	9	14	16	12	4	7
1249:	8	7	13	12	14	10	11	7
1257:	12	10	3	13	11	8	13	4
1265:	10	5	10	9	12	8	7	5
1273:	8	11	4	13	9	10	19	33
1281:	37	15	14	7	4	11	9	13
1289:	5	8	6	8	11	6	4	8
1297:	12	10	8	10	17	8	8	6
1305:	11	12	11	11	5	5	4	6
1313:	6	6	11	12	12	13	11	4
1321:	12	7	8	4	7	9	5	6
1329:	14	5	6	11	10	14	9	5
1337:	9	10	10	9	9	9	10	7
1345:	8	10	9	9	9	6	11	8
1353:	9	13	6	10	6	10	6	13
1361:	10	8	12	7	5	5	8	15
1369:	9	11	9	7	10	9	12	32
1377:	85	63	31	12	3	9	5	17
1385:	15	11	12	6	10	12	4	4
1393:	7	4	9	11	5	5	8	17
1401:	30	18	6	5	8	15	47	49
1409:	30	13	12	7	9	8	13	8
1417:	9	11	6	11	6	6	11	4
1425:	9	13	8	5	7	7	8	12
1433:	6	5	6	8	3	6	8	3
1441:	15	9	12	4	12	7	11	5
1449:	5	4	10	7	7	15	5	5
1457:	12	10	19	41	46	19	10	6
1465:	9	13	7	10	13	3	5	10
1473:	7	5	7	5	9	6	6	7
1481:	5	12	8	3	7	8	10	14
1489:	8	7	5	9	9	7	14	6
1497:	8	4	9	7	7	7	10	13
1505:	8	9	19	30	35	33	14	11
1513:	2	13	6	9	11	7	13	5
1521:	11	6	8	7	17	12	7	7
1529:	4	16	4	6	5	9	9	10
1537:	10	15	15	6	13	6	15	13
1545:	8	3	6	2	6	9	12	9
1553:	3	5	7	6	7	10	10	7
1561:	5	1	8	6	6	8	17	6
1569:	12	1	12	0	2	6	11	5
1577:	4	2	12	6	14	15	14	16
1585:	4	6	7	9	6	4	7	5
1593:	5	9	10	7	10	7	6	10
1601:	6	12	4	2	3	7	2	4
1609:	6	4	8	4	4	5	4	8
1617:	12	4	4	2	2	4	7	8
1625:	4	5	3	1	3	1	5	2
1633:	3	6	4	6	1	5	4	5
1641:	2	8	5	6	3	3	3	1
1649:	5	3	5	1	4	5	3	3
1657:	2	3	6	14	18	4	0	4

1665:	3	4	2	7	2	5	5	6

Sample Title: FEEBRISID-09-088-089

Channel								
1673:	4	6	4	6	3	2	2	7
1681:	8	6	11	3	4	3	2	2
1689:	1	8	3	6	7	5	7	4
1697:	1	5	1	3	2	3	6	1
1705:	5	4	5	1	4	1	2	1
1713:	4	2	3	2	6	2	1	4
1721:	6	5	1	5	2	5	2	41
1729:	60	39	11	9	1	5	2	3
1737:	5	5	1	1	2	5	3	1
1745:	3	3	5	2	5	1	1	2
1753:	2	3	6	4	1	3	3	1
1761:	5	45	141	231	172	17	6	3
1769:	3	1	2	1	1	0	1	2
1777:	3	2	3	4	3	2	1	1
1785:	3	1	1	2	4	1	1	4
1793:	2	1	1	2	4	1	0	1
1801:	1	2	3	2	4	1	2	3
1809:	0	3	0	6	1	3	1	3
1817:	0	1	2	1	2	4	4	1
1825:	3	2	1	1	2	4	0	2
1833:	0	1	5	2	5	8	3	2
1841:	4	1	2	3	9	25	37	19
1849:	6	1	2	0	3	1	2	1
1857:	3	0	3	4	4	5	2	1
1865:	5	3	0	4	5	6	5	6
1873:	11	2	7	5	1	3	7	0
1881:	5	3	1	1	1	1	1	4
1889:	2	6	3	3	1	4	6	5
1897:	1	4	5	2	2	2	2	0
1905:	2	4	2	2	5	2	2	3
1913:	3	1	1	3	2	6	4	0
1921:	3	2	4	3	2	5	1	2
1929:	1	3	3	1	2	4	3	5
1937:	2	4	2	0	0	5	3	2
1945:	0	2	7	1	3	1	4	5
1953:	2	5	2	1	2	6	4	3
1961:	2	3	3	4	4	3	2	2
1969:	4	5	2	5	4	2	2	4
1977:	2	4	3	3	1	3	4	1
1985:	3	0	1	4	0	1	0	2
1993:	1	1	0	2	2	0	1	3
2001:	0	0	6	0	2	2	0	2
2009:	7	2	7	2	2	1	1	3
2017:	2	0	4	2	1	1	2	0
2025:	1	1	3	1	1	1	2	1
2033:	1	0	3	0	2	2	0	1
2041:	0	0	1	0	1	4	2	2
2049:	1	4	2	3	1	1	2	1
2057:	1	0	1	3	1	3	1	2
2065:	0	1	3	2	1	0	1	1
2073:	0	2	3	2	0	0	2	3
2081:	3	0	0	2	3	0	0	1
2089:	2	2	0	2	0	0	2	1

2097:	3	2	1	2	1	2	1	0

Sample Title: FEEBRISID-09-088-089

Channel								
2105:	1	1	2	2	1	0	1	1
2113:	1	0	2	3	15	19	9	3
2121:	0	2	1	2	0	2	1	1
2129:	1	1	0	1	0	0	3	0
2137:	0	2	1	2	1	0	3	0
2145:	0	0	4	1	0	0	0	1
2153:	0	1	2	1	2	1	2	1
2161:	1	1	1	2	1	1	0	1
2169:	1	2	1	2	0	2	2	0
2177:	0	1	3	3	1	1	3	3
2185:	0	1	0	3	0	1	3	0
2193:	0	0	0	1	5	1	1	4
2201:	8	21	75	40	19	3	1	1
2209:	1	0	2	0	1	2	2	2
2217:	1	0	0	3	2	0	0	2
2225:	1	3	1	0	1	1	0	0
2233:	2	0	0	2	1	3	0	1
2241:	2	0	0	1	0	1	0	2
2249:	1	1	0	1	1	0	0	0
2257:	0	0	0	2	1	0	2	0
2265:	0	1	1	0	0	0	1	1
2273:	0	2	0	1	1	0	0	2
2281:	0	0	0	1	1	1	0	0
2289:	0	1	1	3	7	2	0	2
2297:	0	0	1	2	1	0	0	1
2305:	1	0	1	0	1	2	1	0
2313:	1	0	1	1	0	0	2	1
2321:	1	0	7	1	0	0	0	1
2329:	1	0	2	1	0	1	1	1
2337:	1	0	1	0	0	2	0	2
2345:	0	0	1	0	1	1	0	0
2353:	1	0	1	0	0	0	1	1
2361:	0	0	0	0	1	1	2	0
2369:	0	0	0	0	1	0	1	0
2377:	0	2	0	0	1	0	0	1
2385:	0	0	0	1	0	0	2	1
2393:	1	1	0	0	0	1	0	0
2401:	1	1	0	0	0	2	1	0
2409:	0	1	0	0	0	0	0	1
2417:	0	0	1	0	0	0	0	1
2425:	1	0	0	2	0	0	0	0
2433:	0	1	2	1	0	1	0	0
2441:	0	0	0	2	3	18	15	10
2449:	2	0	0	0	2	1	1	0
2457:	0	0	0	1	1	1	0	0
2465:	0	0	0	0	0	0	0	0
2473:	0	0	0	0	2	0	0	1
2481:	0	1	0	0	0	0	0	1
2489:	1	0	0	0	0	0	0	0
2497:	0	0	1	0	0	1	1	1
2505:	0	0	1	0	1	0	0	0
2513:	0	0	0	0	0	0	0	0
2521:	0	0	0	0	0	0	0	0

2529:	0	0	0	1	1	0	0	0

Sample Title: FEEBRISID-09-088-089

Channel								
2537:	0	0	0	0	0	0	0	0
2545:	0	0	0	0	0	0	0	1
2553:	0	0	0	0	0	0	0	0
2561:	0	1	0	1	0	1	0	0
2569:	1	0	0	0	1	0	0	0
2577:	1	1	1	1	1	0	1	2
2585:	0	1	0	1	0	0	0	1
2593:	1	1	1	1	0	1	0	0
2601:	1	0	1	0	1	0	0	0
2609:	1	0	1	7	5	11	6	0
2617:	0	0	0	2	0	0	1	0
2625:	0	1	0	0	0	0	1	0
2633:	0	1	0	0	0	0	0	0
2641:	0	0	0	0	0	0	1	0
2649:	1	0	0	0	0	0	2	0
2657:	0	2	0	0	0	0	0	0
2665:	0	0	0	0	0	1	0	0
2673:	0	0	0	1	0	0	0	0
2681:	0	0	0	1	1	1	0	0
2689:	0	0	0	0	2	0	0	0
2697:	0	0	0	0	0	0	0	0
2705:	1	0	0	0	0	0	0	0
2713:	1	0	0	0	1	1	0	0
2721:	0	1	0	0	0	0	1	1
2729:	0	0	0	0	0	0	0	0
2737:	0	0	0	1	1	0	0	0
2745:	0	1	0	0	1	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	1	1	0	0	0	0
2769:	1	0	1	1	1	0	0	0
2777:	0	0	1	0	0	2	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	1	0	1	0	0	0
2801:	0	1	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	1
2817:	1	1	0	0	1	1	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	1	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	2	0	0	0	1
2857:	0	0	1	1	1	0	0	1
2865:	1	0	0	1	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	1	0	0	0	0	0	0	0
2889:	0	0	1	0	0	1	0	1
2897:	0	0	1	0	0	1	0	0
2905:	0	0	0	0	0	0	1	1
2913:	0	0	1	1	1	0	0	0
2921:	0	1	0	2	0	1	0	0
2929:	0	0	0	0	0	0	1	0
2937:	0	0	0	2	0	0	0	0
2945:	1	0	0	0	0	0	0	0
2953:	0	0	0	0	0	1	0	0

2961:	0	0	0	0	1	0	0	0

Sample Title: FEEBRISID-09-088-089

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	1	1	0	0	0	1	0	0
2985:	0	0	0	0	0	1	0	0
2993:	1	0	0	0	0	0	0	0
3001:	0	0	1	0	0	0	0	0
3009:	1	0	0	0	0	0	0	0
3017:	0	0	1	0	0	0	0	0
3025:	0	1	0	0	0	0	1	0
3033:	0	0	0	0	0	0	1	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	1	0	0	0	0
3057:	2	0	0	0	0	0	0	1
3065:	0	0	0	1	1	0	0	0
3073:	0	0	0	0	0	0	0	1
3081:	0	0	0	1	1	1	0	0
3089:	1	0	0	2	1	0	1	0
3097:	0	0	0	1	0	0	0	1
3105:	1	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	1	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	1	1	1	0	0	0
3161:	0	0	0	0	1	0	0	0
3169:	0	0	1	0	0	0	1	1
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	1	0
3193:	0	0	0	0	0	1	0	0
3201:	0	0	0	3	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	1	1	0	1	0	0
3225:	0	0	1	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	1	0	0	0
3249:	0	0	1	0	0	1	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	1	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	1	0	1	1	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	1	0	0	0	0
3337:	1	0	0	0	0	0	0	0
3345:	0	0	0	0	1	0	1	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	1	0	1	0	0	1	0
3385:	0	0	1	1	0	0	0	0

3393:	0	0	0	0	0	0	1	0

Sample Title: FEEBRISID-09-088-089

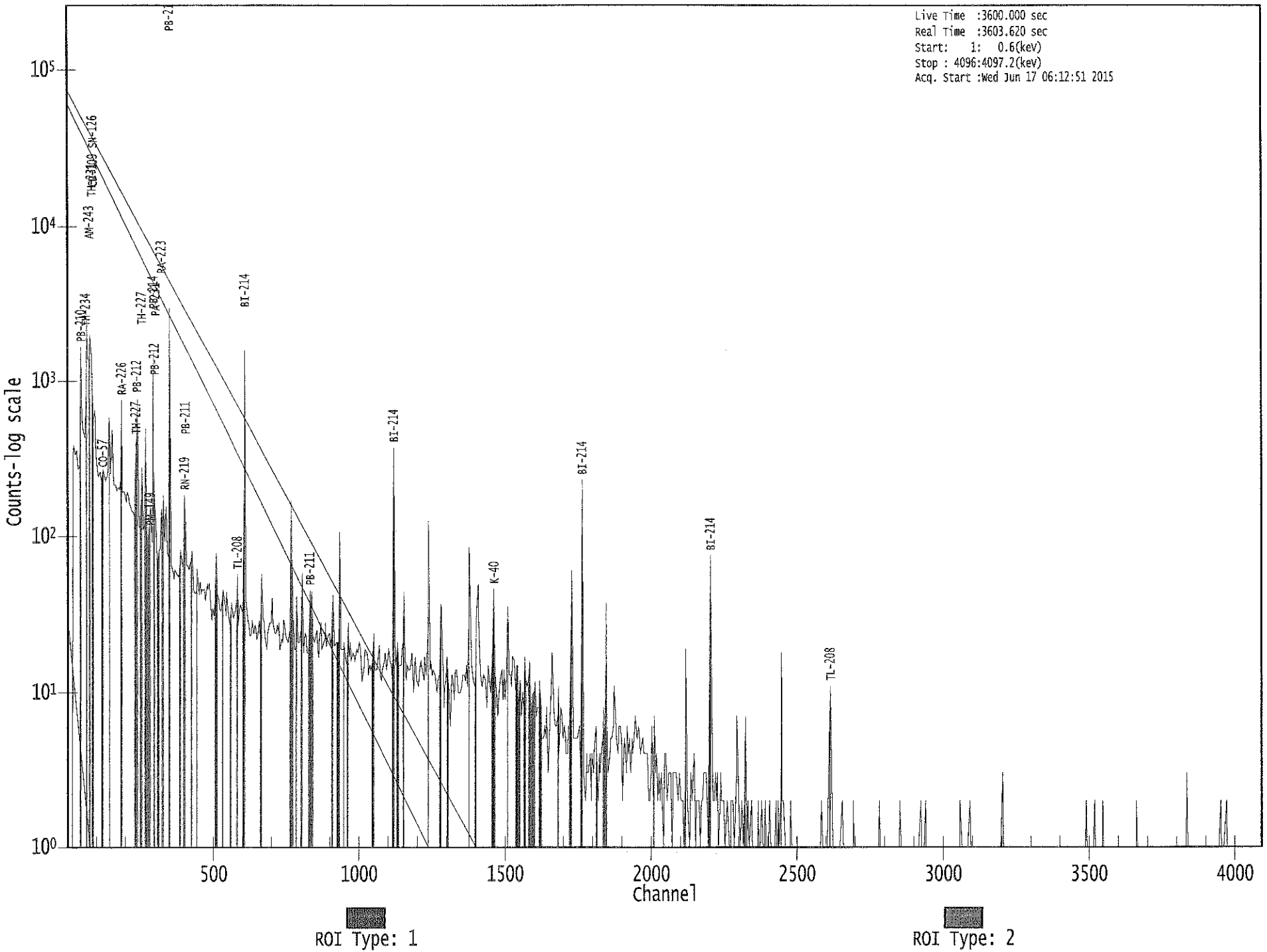
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	1	0	0	0
3425:	0	0	0	0	0	1	0	0
3433:	0	0	1	0	0	0	0	1
3441:	0	1	0	0	0	0	1	0
3449:	0	0	1	0	0	0	1	0
3457:	0	0	1	0	1	1	0	0
3465:	0	1	0	0	0	0	0	1
3473:	0	0	0	0	1	0	0	0
3481:	0	0	0	0	0	0	1	0
3489:	0	0	2	0	1	0	0	0
3497:	0	0	0	0	0	1	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	1	0	1	0	2	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	0	1	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	2	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	1	0	0	1	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	1
3609:	0	0	1	1	0	0	0	0
3617:	0	0	0	1	0	0	0	0
3625:	0	1	0	0	0	0	0	0
3633:	1	0	0	0	1	0	0	0
3641:	0	0	0	1	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	2	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	1	1	1
3689:	0	0	0	0	0	0	0	0
3697:	0	1	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	1	0	0	0	0	0	0	0
3745:	1	0	1	0	1	0	0	0
3753:	1	0	0	0	0	0	0	0
3761:	0	0	0	0	1	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	1
3793:	0	0	0	0	0	0	0	0
3801:	0	0	1	0	0	0	0	0
3809:	0	0	1	0	0	0	0	1
3817:	0	0	0	0	1	0	0	0

3825:	0	0	0	0	0	0	0	1

Sample Title: FEEBRISID-09-088-089

Channel								
3833:	0	1	3	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	1	0	0
3865:	0	1	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	1	0	0
3889:	0	0	0	0	0	0	0	1
3897:	0	1	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	1	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	1	0	0
3945:	1	0	0	0	0	0	0	2
3953:	0	0	0	0	0	0	1	0
3961:	0	1	0	0	1	0	0	0
3969:	0	0	0	2	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	1	0	0	0	0
3993:	0	0	1	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	1	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	1	0
4049:	0	0	0	1	0	0	1	0
4057:	0	0	0	1	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	1	0	0	0	1	0
4089:	0	0	0	0	0	0	0	0

0000023536.CNF



Apex-Gamma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

6/17/15

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-04
Sample Description	: FEEBRISID-09-088-089
Sample Type	: SOIL
Sample Size	: 3.300E+02 grams
Facility	: Countroom
Sample Taken On	: 6/11/2015 3:22:57PM
Acquisition Started	: 6/17/2015 7:13:03AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3603.6 seconds
Dead Time	: 0.10 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23541

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
6/17/15

Analysis Report for 1506043-04

FEEBRISID-09-088-089

PEAK LOCATE REPORT

Peak Locate Performed on : 6/17/2015 8:13:10AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.47	27.83	0.0000	0.00
2	31.96	32.32	0.0000	0.00
3	46.53	46.89	0.0000	0.00
4	67.87	68.22	0.0000	0.00
5	76.38	76.72	0.0000	0.00
6	83.99	84.33	0.0000	0.00
7	88.19	88.53	0.0000	0.00
8	94.53	94.86	0.0000	0.00
9	97.53	97.86	0.0000	0.00
10	122.72	123.04	0.0000	0.00
11	143.97	144.29	0.0000	0.00
12	154.35	154.66	0.0000	0.00
13	186.27	186.58	0.0000	0.00
14	210.43	210.73	0.0000	0.00
15	235.90	236.19	0.0000	0.00
16	238.73	239.02	0.0000	0.00
17	242.03	242.32	0.0000	0.00
18	256.14	256.42	0.0000	0.00
19	270.44	270.72	0.0000	0.00
20	285.40	285.68	0.0000	0.00
21	295.33	295.60	0.0000	0.00
22	299.80	300.07	0.0000	0.00
23	303.23	303.50	0.0000	0.00
24	324.10	324.35	0.0000	0.00
25	329.98	330.24	0.0000	0.00
26	338.48	338.74	0.0000	0.00
27	351.92	352.17	0.0000	0.00
28	388.15	388.39	0.0000	0.00
29	401.70	401.93	0.0000	0.00
30	404.94	405.17	0.0000	0.00
31	426.49	426.71	0.0000	0.00
32	444.85	445.07	0.0000	0.00
33	453.70	453.91	0.0000	0.00
34	462.99	463.20	0.0000	0.00
35	511.51	511.70	0.0000	0.00
36	582.39	582.56	0.0000	0.00
37	590.53	590.70	0.0000	0.00
38	609.30	609.46	0.0000	0.00
39	664.29	664.43	0.0000	0.00
40	703.49	703.61	0.0000	0.00
41	764.29	764.40	0.0000	0.00
42	768.29	768.40	0.0000	0.00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	786.08	786.18	0.0000	0.00
44	806.02	806.11	0.0000	0.00
45	831.76	831.84	0.0000	0.00
46	839.48	839.56	0.0000	0.00
47	864.69	864.76	0.0000	0.00
48	911.89	911.95	0.0000	0.00
49	921.33	921.38	0.0000	0.00
50	934.20	934.25	0.0000	0.00
51	1063.40	1063.41	0.0000	0.00
52	1069.27	1069.26	0.0000	0.00
53	1120.33	1120.31	0.0000	0.00
54	1154.53	1154.50	0.0000	0.00
55	1191.60	1191.56	0.0000	0.00
56	1238.15	1238.09	0.0000	0.00
57	1281.04	1280.96	0.0000	0.00
58	1284.88	1284.80	0.0000	0.00
59	1289.97	1289.89	0.0000	0.00
60	1377.33	1377.22	0.0000	0.00
61	1385.33	1385.22	0.0000	0.00
62	1401.14	1401.02	0.0000	0.00
63	1407.93	1407.81	0.0000	0.00
64	1460.49	1460.34	0.0000	0.00
65	1509.41	1509.25	0.0000	0.00
66	1545.79	1545.62	0.0000	0.00
67	1559.04	1558.86	0.0000	0.00
68	1582.37	1582.18	0.0000	0.00
69	1588.64	1588.45	0.0000	0.00
70	1594.00	1593.81	0.0000	0.00
71	1661.45	1661.24	0.0000	0.00
72	1697.98	1697.75	0.0000	0.00
73	1729.16	1728.92	0.0000	0.00
74	1764.32	1764.07	0.0000	0.00
75	1837.82	1837.54	0.0000	0.00
76	1847.14	1846.85	0.0000	0.00
77	1940.58	1940.26	0.0000	0.00
78	1953.25	1952.92	0.0000	0.00
79	2004.43	2004.08	0.0000	0.00
80	2010.36	2010.01	0.0000	0.00
81	2025.26	2024.90	0.0000	0.00
82	2100.13	2099.75	0.0000	0.00
83	2118.09	2117.70	0.0000	0.00
84	2203.41	2202.99	0.0000	0.00
85	2248.56	2248.12	0.0000	0.00
86	2293.26	2292.80	0.0000	0.00
87	2446.70	2446.19	0.0000	0.00
88	2614.06	2613.47	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 8:13:10AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	27.47	26 -	34	27.83	2.50E+02	69.89	1.16E+03	1.60
m	2	31.96	26 -	34	32.32	3.17E+02	98.27	1.88E+03	1.54
	3	46.53	43 -	49	46.89	1.95E+03	179.32	4.43E+03	1.28
	4	67.87	65 -	72	68.22	3.05E+03	255.06	8.69E+03	1.44
	5	76.38	73 -	79	76.72	2.16E+03	243.37	1.12E+04	3.52
	6	83.99	83 -	86	84.33	8.87E+02	155.69	5.06E+03	1.32
	7	88.19	87 -	92	88.53	8.18E+02	177.61	5.48E+03	1.46
M	8	94.53	92 -	100	94.86	5.17E+02	117.01	2.84E+03	1.49
m	9	97.53	92 -	100	97.86	1.11E+02	105.38	2.42E+03	1.50
	10	122.72	120 -	126	123.04	1.25E+02	130.72	3.03E+03	1.41
	11	143.97	140 -	148	144.29	7.35E+02	171.58	4.09E+03	1.91
	12	154.35	151 -	158	154.66	2.86E+02	157.43	3.95E+03	1.34
	13	186.27	182 -	190	186.58	1.39E+03	160.69	3.11E+03	1.86
	14	210.43	208 -	213	210.73	1.26E+02	93.61	1.64E+03	3.06
M	15	235.90	232 -	246	236.19	6.47E+02	89.55	1.21E+03	1.66
m	16	238.73	232 -	246	239.02	1.85E+02	102.65	1.43E+03	1.85
m	17	242.03	232 -	246	242.32	1.34E+03	111.17	1.38E+03	1.85
	18	256.14	251 -	261	256.42	6.18E+02	136.26	2.15E+03	1.85
	19	270.44	266 -	276	270.72	1.22E+03	143.31	2.09E+03	2.99
	20	285.40	282 -	290	285.68	1.22E+02	101.37	1.50E+03	4.12
M	21	295.33	292 -	308	295.60	3.00E+03	124.65	7.78E+02	1.63
m	22	299.80	292 -	308	300.07	2.83E+02	80.84	8.50E+02	2.10
m	23	303.23	292 -	308	303.50	1.63E+02	78.76	8.32E+02	2.11
M	24	324.10	320 -	334	324.35	1.35E+02	71.58	9.31E+02	1.97
m	25	329.98	320 -	334	330.24	1.52E+02	63.77	7.85E+02	1.66
	26	338.48	336 -	342	338.74	7.28E+01	78.31	1.06E+03	1.70
	27	351.92	347 -	356	352.17	5.55E+03	177.25	1.31E+03	1.68
	28	388.15	384 -	393	388.39	1.38E+02	84.84	9.49E+02	4.15
M	29	401.70	398 -	411	401.93	2.44E+02	58.07	5.33E+02	1.83
m	30	404.94	398 -	411	405.17	1.36E+02	60.86	5.15E+02	1.83
	31	426.49	423 -	431	426.71	9.54E+01	78.13	8.77E+02	1.68
	32	444.85	441 -	449	445.07	1.14E+02	67.34	6.22E+02	2.76
	33	453.70	450 -	458	453.91	7.65E+01	64.13	5.87E+02	1.73
	34	462.99	459 -	467	463.20	6.84E+01	62.60	5.57E+02	3.62
	35	511.51	507 -	516	511.70	1.50E+02	67.93	5.70E+02	3.19
	36	582.39	577 -	587	582.56	8.38E+01	65.19	5.20E+02	2.28
	37	590.53	588 -	593	590.70	4.58E+01	38.95	2.66E+02	2.01
	38	609.30	603 -	614	609.46	3.63E+03	137.55	5.54E+02	2.03
	39	664.29	659 -	669	664.43	1.17E+02	58.99	4.03E+02	2.07
	40	703.49	699 -	708	703.61	7.88E+01	49.41	3.00E+02	4.62

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	764.29	763	773	764.40	2.64E+01	19.67	9.92E+01	2.18
m	42	768.29	763	773	768.40	3.42E+02	48.86	2.02E+02	1.91
	43	786.08	781	791	786.18	1.23E+02	50.10	2.68E+02	2.01
	44	806.02	802	810	806.11	5.57E+01	49.79	3.39E+02	1.61
	45	831.76	829	837	831.84	6.27E+01	51.97	3.85E+02	1.62
	46	839.48	837	844	839.56	5.43E+01	43.03	2.65E+02	2.38
	47	864.69	863	867	864.76	2.19E+01	26.41	1.36E+02	2.08
	48	911.89	907	916	911.95	8.73E+01	49.53	2.89E+02	4.74
	49	921.33	918	925	921.38	3.35E+01	35.21	1.85E+02	3.22
	50	934.20	930	938	934.25	1.70E+02	51.39	3.02E+02	1.71
	51	1063.40	1061	1065	1063.41	1.82E+01	21.66	8.56E+01	1.80
	52	1069.27	1067	1071	1069.26	1.85E+01	22.16	9.30E+01	0.89
	53	1120.33	1116	1125	1120.31	7.63E+02	66.14	1.86E+02	2.06
	54	1154.53	1149	1159	1154.50	1.07E+02	42.31	1.81E+02	2.14
	55	1191.60	1189	1196	1191.56	2.55E+01	28.00	1.17E+02	3.69
	56	1238.15	1234	1242	1238.09	2.71E+02	47.73	1.82E+02	1.78
M	57	1281.04	1276	1287	1280.96	6.80E+01	28.82	1.02E+02	2.37
m	58	1284.88	1276	1287	1284.80	2.25E+01	22.78	5.62E+01	2.12
	59	1289.97	1288	1293	1289.89	1.85E+01	19.05	5.90E+01	1.81
M	60	1377.33	1372	1391	1377.22	2.21E+02	35.80	8.26E+01	2.38
m	61	1385.33	1372	1391	1385.22	6.48E+01	26.11	6.34E+01	2.38
M	62	1401.14	1398	1412	1401.02	4.08E+01	22.12	8.41E+01	2.39
m	63	1407.93	1398	1412	1407.81	8.21E+01	30.05	9.31E+01	2.39
	64	1460.49	1455	1465	1460.34	1.13E+02	44.01	1.99E+02	2.15
	65	1509.41	1505	1513	1509.25	8.09E+01	37.70	1.64E+02	2.47
	66	1545.79	1542	1551	1545.62	3.05E+01	31.72	1.17E+02	2.07
	67	1559.04	1553	1565	1558.86	3.73E+01	29.35	8.15E+01	4.64
	68	1582.37	1577	1586	1582.18	3.95E+01	27.44	8.50E+01	1.96
	69	1588.64	1587	1591	1588.45	1.69E+01	16.82	4.82E+01	1.07
	70	1594.00	1592	1597	1593.81	1.58E+01	20.69	7.43E+01	1.15
	71	1661.45	1655	1667	1661.24	4.52E+01	28.01	6.97E+01	2.50
	72	1697.98	1689	1708	1697.75	4.98E+01	30.07	5.24E+01	15.89
	73	1729.16	1724	1734	1728.92	1.48E+02	29.66	3.79E+01	2.15
M	74	1764.32	1758	1772	1764.07	6.52E+02	51.47	1.70E+01	2.44
	75	1837.82	1832	1841	1837.54	1.86E+01	15.78	2.49E+01	2.47
	76	1847.14	1842	1853	1846.85	8.24E+01	28.57	6.32E+01	2.20
	77	1940.58	1934	1947	1940.26	2.82E+01	17.41	2.15E+01	10.76
	78	1953.25	1950	1956	1952.92	1.27E+01	11.36	1.46E+01	2.12
M	79	2004.43	2001	2012	2004.08	1.26E+01	8.83	9.21E+00	3.50
m	80	2010.36	2001	2012	2010.01	1.35E+01	9.49	2.61E+00	2.63
	81	2025.26	2023	2027	2024.90	7.36E+00	9.67	1.33E+01	2.86
	82	2100.13	2096	2102	2099.75	7.31E+00	10.05	1.14E+01	2.97
	83	2118.09	2110	2120	2117.70	2.82E+01	19.12	3.56E+01	2.68
	84	2203.41	2196	2209	2202.99	1.75E+02	27.59	6.97E+00	2.81
	85	2248.56	2244	2250	2248.12	5.44E+00	7.78	7.11E+00	2.06
	86	2293.26	2289	2296	2292.80	1.00E+01	6.32	0.00E+00	1.69
	87	2446.70	2442	2450	2446.19	3.99E+01	13.72	4.12E+00	3.17
	88	2614.06	2609	2617	2613.47	1.90E+01	8.72	0.00E+00	1.69

Analysis Report for 1506043-04

FEEBRISID-09-088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/17/2015 8:13:10AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	27.47	26 -	34	2.50E+02	69.89	1.16E+03	5.59E+01
m	2	31.96	26 -	34	3.17E+02	98.27	1.88E+03	7.13E+01
	3	46.53	43 -	49	1.95E+03	179.32	4.43E+03	1.28E+02
	4	67.87	65 -	72	3.05E+03	255.06	8.69E+03	4.51E+02
	5	76.38	73 -	79	2.16E+03	243.37	1.12E+04	2.32E+02
	6	83.99	83 -	86	8.87E+02	155.69	5.06E+03	1.18E+02
	7	88.19	87 -	92	8.18E+02	177.61	5.48E+03	1.38E+02
M	8	94.53	92 -	100	5.17E+02	117.01	2.84E+03	8.76E+01
m	9	97.53	92 -	100	1.11E+02	105.38	2.42E+03	8.08E+01
	10	122.72	120 -	126	1.25E+02	130.72	3.03E+03	1.06E+02
	11	143.97	140 -	148	7.35E+02	171.58	4.09E+03	1.34E+02
	12	154.35	151 -	158	2.86E+02	157.43	3.95E+03	1.26E+02
	13	186.27	182 -	190	1.39E+03	160.69	3.11E+03	1.17E+02
	14	210.43	208 -	213	1.26E+02	93.61	1.64E+03	7.47E+01
M	15	235.90	232 -	246	6.47E+02	89.55	1.21E+03	5.73E+01
m	16	238.73	232 -	246	1.85E+02	102.65	1.43E+03	6.23E+01
m	17	242.03	232 -	246	1.34E+03	111.17	1.38E+03	6.11E+01
	18	256.14	251 -	261	6.18E+02	136.26	2.15E+03	1.04E+02
	19	270.44	266 -	276	1.22E+03	143.31	2.09E+03	1.03E+02
	20	285.40	282 -	290	1.22E+02	101.37	1.50E+03	8.13E+01
M	21	295.33	292 -	308	3.00E+03	124.65	7.78E+02	4.59E+01
m	22	299.80	292 -	308	2.83E+02	80.84	8.50E+02	4.79E+01
m	23	303.23	292 -	308	1.63E+02	78.76	8.32E+02	4.74E+01
M	24	324.10	320 -	334	1.35E+02	71.58	9.31E+02	5.02E+01
m	25	329.98	320 -	334	1.52E+02	63.77	7.85E+02	4.61E+01
	26	338.48	336 -	342	7.28E+01	78.31	1.06E+03	6.28E+01
	27	351.92	347 -	356	5.55E+03	177.25	1.31E+03	7.89E+01
	28	388.15	384 -	393	1.38E+02	84.84	9.49E+02	6.70E+01
M	29	401.70	398 -	411	2.44E+02	58.07	5.33E+02	3.80E+01
m	30	404.94	398 -	411	1.36E+02	60.86	5.15E+02	3.73E+01
	31	426.49	423 -	431	9.54E+01	78.13	8.77E+02	6.22E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	32	444.85	441 -	449	1.14E+02	67.34	6.22E+02	5.25E+01
	33	453.70	450 -	458	7.65E+01	64.13	5.87E+02	5.07E+01
	34	462.99	459 -	467	6.84E+01	62.60	5.57E+02	4.96E+01
	35	511.51	507 -	516	1.50E+02	67.93	5.70E+02	5.21E+01
	36	582.39	577 -	587	8.38E+01	65.19	5.20E+02	5.14E+01
	37	590.53	588 -	593	4.58E+01	38.95	2.66E+02	3.00E+01
	38	609.30	603 -	614	3.63E+03	137.55	5.54E+02	5.46E+01
	39	664.29	659 -	669	1.17E+02	58.99	4.03E+02	4.51E+01
	40	703.49	699 -	708	7.88E+01	49.41	3.00E+02	3.79E+01
M	41	764.29	763 -	773	2.64E+01	19.67	9.92E+01	1.64E+01
m	42	768.29	763 -	773	3.42E+02	48.86	2.02E+02	2.33E+01
	43	786.08	781 -	791	1.23E+02	50.10	2.68E+02	3.69E+01
	44	806.02	802 -	810	5.57E+01	49.79	3.39E+02	3.90E+01
	45	831.76	829 -	837	6.27E+01	51.97	3.85E+02	4.07E+01
	46	839.48	837 -	844	5.43E+01	43.03	2.65E+02	3.32E+01
	47	864.69	863 -	867	2.19E+01	26.41	1.36E+02	2.03E+01
	48	911.89	907 -	916	8.73E+01	49.53	2.89E+02	3.77E+01
	49	921.33	918 -	925	3.35E+01	35.21	1.85E+02	2.73E+01
	50	934.20	930 -	938	1.70E+02	51.39	3.02E+02	3.64E+01
	51	1063.40	1061 -	1065	1.82E+01	21.66	8.56E+01	1.64E+01
	52	1069.27	1067 -	1071	1.85E+01	22.16	9.30E+01	1.68E+01
	53	1120.33	1116 -	1125	7.63E+02	66.14	1.86E+02	2.99E+01
	54	1154.53	1149 -	1159	1.07E+02	42.31	1.81E+02	3.03E+01
	55	1191.60	1189 -	1196	2.55E+01	28.00	1.17E+02	2.15E+01
	56	1238.15	1234 -	1242	2.71E+02	47.73	1.82E+02	2.84E+01
M	57	1281.04	1276 -	1287	6.80E+01	28.82	1.02E+02	1.66E+01
m	58	1284.88	1276 -	1287	2.25E+01	22.78	5.62E+01	1.23E+01
	59	1289.97	1288 -	1293	1.85E+01	19.05	5.90E+01	1.40E+01
M	60	1377.33	1372 -	1391	2.21E+02	35.80	8.26E+01	1.49E+01
m	61	1385.33	1372 -	1391	6.48E+01	26.11	6.34E+01	1.31E+01
M	62	1401.14	1398 -	1412	4.08E+01	22.12	8.41E+01	1.51E+01
m	63	1407.93	1398 -	1412	8.21E+01	30.05	9.31E+01	1.59E+01
	64	1460.49	1455 -	1465	1.13E+02	44.01	1.99E+02	3.17E+01
	65	1509.41	1505 -	1513	8.09E+01	37.70	1.64E+02	2.72E+01
	66	1545.79	1542 -	1551	3.05E+01	31.72	1.17E+02	2.44E+01
	67	1559.04	1553 -	1565	3.73E+01	29.35	8.15E+01	2.19E+01
	68	1582.37	1577 -	1586	3.95E+01	27.44	8.50E+01	2.01E+01
	69	1588.64	1587 -	1591	1.69E+01	16.82	4.82E+01	1.21E+01
	70	1594.00	1592 -	1597	1.58E+01	20.69	7.43E+01	1.57E+01
	71	1661.45	1655 -	1667	4.52E+01	28.01	6.97E+01	2.02E+01
	72	1697.98	1689 -	1708	4.98E+01	30.07	5.24E+01	2.18E+01
	73	1729.16	1724 -	1734	1.48E+02	29.66	3.79E+01	1.39E+01
M	74	1764.32	1758 -	1772	6.52E+02	51.47	1.70E+01	6.77E+00
	75	1837.82	1832 -	1841	1.86E+01	15.78	2.49E+01	1.09E+01
	76	1847.14	1842 -	1853	8.24E+01	28.57	6.32E+01	1.81E+01
	77	1940.58	1934 -	1947	2.82E+01	17.41	2.15E+01	1.13E+01
	78	1953.25	1950 -	1956	1.27E+01	11.36	1.46E+01	7.27E+00
M	79	2004.43	2001 -	2012	1.26E+01	8.83	9.21E+00	4.99E+00
m	80	2010.36	2001 -	2012	1.35E+01	9.49	2.61E+00	2.65E+00
	81	2025.26	2023 -	2027	7.36E+00	9.67	1.33E+01	6.58E+00
	82	2100.13	2096 -	2102	7.31E+00	10.05	1.14E+01	6.96E+00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
83	2118.09	2110 -	2120	2.82E+01	19.12	3.56E+01	1.31E+01
84	2203.41	2196 -	2209	1.75E+02	27.59	6.97E+00	6.52E+00
85	2248.56	2244 -	2250	5.44E+00	7.78	7.11E+00	5.12E+00
86	2293.26	2289 -	2296	1.00E+01	6.32	0.00E+00	0.00E+00
87	2446.70	2442 -	2450	3.99E+01	13.72	4.12E+00	4.39E+00
88	2614.06	2609 -	2617	1.90E+01	8.72	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 6/17/2015 8:13:10AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	27.47	26 -	34	27.83	2.50E+02	69.89	1.16E+03	.....
m	2	31.96	26 -	34	32.32	3.17E+02	98.27	1.88E+03	.....
	3	46.53	43 -	49	46.89	1.95E+03	179.32	4.43E+03	PB-210
	4	67.87	65 -	72	68.22	3.05E+03	255.06	8.69E+03	TI-44
									TA-182
									TH-230
	5	76.38	73 -	79	76.72	2.16E+03	243.37	1.12E+04	.....
	6	83.99	83 -	86	84.33	8.87E+02	155.69	5.06E+03	TH-231
	7	88.19	87 -	92	88.53	8.18E+02	177.61	5.48E+03	LU-176
									CD-109
									SN-126
M	8	94.53	92 -	100	94.86	5.17E+02	117.01	2.84E+03	.....
m	9	97.53	92 -	100	97.86	1.11E+02	105.38	2.42E+03	GD-153
	10	122.72	120 -	126	123.04	1.25E+02	130.72	3.03E+03	EU-154
									CO-57
									EU-152
	11	143.97	140 -	148	144.29	7.35E+02	171.58	4.09E+03	U-235
	12	154.35	151 -	158	154.66	2.86E+02	157.43	3.95E+03	.....
	13	186.27	182 -	190	186.58	1.39E+03	160.69	3.11E+03	RA-226
	14	210.43	208 -	213	210.73	1.26E+02	93.61	1.64E+03	CM-243

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	15	235.90	232 -	246	236.19	6.47E+02	89.55	1.21E+03	TH-227
									NB-95M
m	16	238.73	232 -	246	239.02	1.85E+02	102.65	1.43E+03	PB-212
m	17	242.03	232 -	246	242.32	1.34E+03	111.17	1.38E+03	.....
	18	256.14	251 -	261	256.42	6.18E+02	136.26	2.15E+03	TH-227
	19	270.44	266 -	276	270.72	1.22E+03	143.31	2.09E+03	.....
	20	285.40	282 -	290	285.68	1.22E+02	101.37	1.50E+03	PM-149
M	21	295.33	292 -	308	295.60	3.00E+03	124.65	7.78E+02	PB-214
m	22	299.80	292 -	308	300.07	2.83E+02	80.84	8.50E+02	BI-210M
									PB-212
									GA-67
m	23	303.23	292 -	308	303.50	1.63E+02	78.76	8.32E+02	BA-133
									PA-231
M	24	324.10	320 -	334	324.35	1.35E+02	71.58	9.31E+02	RA-223
m	25	329.98	320 -	334	330.24	1.52E+02	63.77	7.85E+02	.....
	26	338.48	336 -	342	338.74	7.28E+01	78.31	1.06E+03	AC-228
	27	351.92	347 -	356	352.17	5.55E+03	177.25	1.31E+03	PB-214
	28	388.15	384 -	393	388.39	1.38E+02	84.84	9.49E+02	.....
M	29	401.70	398 -	411	401.93	2.44E+02	58.07	5.33E+02	RN-219
m	30	404.94	398 -	411	405.17	1.36E+02	60.86	5.15E+02	PB-211
	31	426.49	423 -	431	426.71	9.54E+01	78.13	8.77E+02	.....
	32	444.85	441 -	449	445.07	1.14E+02	67.34	6.22E+02	.....
	33	453.70	450 -	458	453.91	7.65E+01	64.13	5.87E+02	PM-146
	34	462.99	459 -	467	463.20	6.84E+01	62.60	5.57E+02	SB-125
	35	511.51	507 -	516	511.70	1.50E+02	67.93	5.70E+02	.....
	36	582.39	577 -	587	582.56	8.38E+01	65.19	5.20E+02	TL-208
	37	590.53	588 -	593	590.70	4.58E+01	38.95	2.66E+02	.....
	38	609.30	603 -	614	609.46	3.63E+03	137.55	5.54E+02	BI-214
	39	664.29	659 -	669	664.43	1.17E+02	58.99	4.03E+02	CE-143
	40	703.49	699 -	708	703.61	7.88E+01	49.41	3.00E+02	NB-94
M	41	764.29	763 -	773	764.40	2.64E+01	19.67	9.92E+01	AG-110M
m	42	768.29	763 -	773	768.40	3.42E+02	48.86	2.02E+02	.....
	43	786.08	781 -	791	786.18	1.23E+02	50.10	2.68E+02	.....
	44	806.02	802 -	810	806.11	5.57E+01	49.79	3.39E+02	.....
	45	831.76	829 -	837	831.84	6.27E+01	51.97	3.85E+02	PB-211
	46	839.48	837 -	844	839.56	5.43E+01	43.03	2.65E+02	.....
	47	864.69	863 -	867	864.76	2.19E+01	26.41	1.36E+02	.....
	48	911.89	907 -	916	911.95	8.73E+01	49.53	2.89E+02	LU-172
									AC-228
	49	921.33	918 -	925	921.38	3.35E+01	35.21	1.85E+02	.....
	50	934.20	930 -	938	934.25	1.70E+02	51.39	3.02E+02	.....
	51	1063.40	1061 -	1065	1063.41	1.82E+01	21.66	8.56E+01	BI-207
	52	1069.27	1067 -	1071	1069.26	1.85E+01	22.16	9.30E+01	.....
	53	1120.33	1116 -	1125	1120.31	7.63E+02	66.14	1.86E+02	BI-214
									SC-46
									TA-182
	54	1154.53	1149 -	1159	1154.50	1.07E+02	42.31	1.81E+02	.....
	55	1191.60	1189 -	1196	1191.56	2.55E+01	28.00	1.17E+02	.....
	56	1238.15	1234 -	1242	1238.09	2.71E+02	47.73	1.82E+02	CO-56
M	57	1281.04	1276 -	1287	1280.96	6.80E+01	28.82	1.02E+02	.....
m	58	1284.88	1276 -	1287	1284.80	2.25E+01	22.78	5.62E+01	.....
	59	1289.97	1288 -	1293	1289.89	1.85E+01	19.05	5.90E+01	.....
M	60	1377.33	1372 -	1391	1377.22	2.21E+02	35.80	8.26E+01	.....
m	61	1385.33	1372 -	1391	1385.22	6.48E+01	26.11	6.34E+01	.....

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	62	1401.14	1398 -	1412	1401.02	4.08E+01	22.12	8.41E+01	.....
m	63	1407.93	1398 -	1412	1407.81	8.21E+01	30.05	9.31E+01	EU-152
	64	1460.49	1455 -	1465	1460.34	1.13E+02	44.01	1.99E+02	K-40
	65	1509.41	1505 -	1513	1509.25	8.09E+01	37.70	1.64E+02	.....
	66	1545.79	1542 -	1551	1545.62	3.05E+01	31.72	1.17E+02	.....
	67	1559.04	1553 -	1565	1558.86	3.73E+01	29.35	8.15E+01	.....
	68	1582.37	1577 -	1586	1582.18	3.95E+01	27.44	8.50E+01	.....
	69	1588.64	1587 -	1591	1588.45	1.69E+01	16.82	4.82E+01	.....
	70	1594.00	1592 -	1597	1593.81	1.58E+01	20.69	7.43E+01	.....
	71	1661.45	1655 -	1667	1661.24	4.52E+01	28.01	6.97E+01	.....
	72	1697.98	1689 -	1708	1697.75	4.98E+01	30.07	5.24E+01	.....
	73	1729.16	1724 -	1734	1728.92	1.48E+02	29.66	3.79E+01	.....
M	74	1764.32	1758 -	1772	1764.07	6.52E+02	51.47	1.70E+01	BI-214
	75	1837.82	1832 -	1841	1837.54	1.86E+01	15.78	2.49E+01	.....
	76	1847.14	1842 -	1853	1846.85	8.24E+01	28.57	6.32E+01	.....
	77	1940.58	1934 -	1947	1940.26	2.82E+01	17.41	2.15E+01	.....
	78	1953.25	1950 -	1956	1952.92	1.27E+01	11.36	1.46E+01	.....
M	79	2004.43	2001 -	2012	2004.08	1.26E+01	8.83	9.21E+00	.....
m	80	2010.36	2001 -	2012	2010.01	1.35E+01	9.49	2.61E+00	.....
	81	2025.26	2023 -	2027	2024.90	7.36E+00	9.67	1.33E+01	.....
	82	2100.13	2096 -	2102	2099.75	7.31E+00	10.05	1.14E+01	.....
	83	2118.09	2110 -	2120	2117.70	2.82E+01	19.12	3.56E+01	.....
	84	2203.41	2196 -	2209	2202.99	1.75E+02	27.59	6.97E+00	BI-214
	85	2248.56	2244 -	2250	2248.12	5.44E+00	7.78	7.11E+00	.....
	86	2293.26	2289 -	2296	2292.80	1.00E+01	6.32	0.00E+00	.....
	87	2446.70	2442 -	2450	2446.19	3.99E+01	13.72	4.12E+00	.....
	88	2614.06	2609 -	2617	2613.47	1.90E+01	8.72	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 6/17/2015 8:13:10AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	27.47	2.50E+02	69.89	3.10E-03	1.78E-03
m	2	31.96	3.17E+02	98.27	5.97E-03	1.78E-03
	3	46.53	1.95E+03	179.32	1.68E-02	1.78E-03

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	4	67.87	3.05E+03	255.06	2.62E-02	2.06E-03
	5	76.38	2.16E+03	243.37	2.77E-02	2.35E-03
	6	83.99	8.87E+02	155.69	2.83E-02	2.60E-03
	7	88.19	8.18E+02	177.61	2.85E-02	2.74E-03
M	8	94.53	5.17E+02	117.01	2.86E-02	2.61E-03
m	9	97.53	1.11E+02	105.38	2.85E-02	2.55E-03
	10	122.72	1.25E+02	130.72	2.72E-02	2.07E-03
	11	143.97	7.35E+02	171.58	2.56E-02	2.12E-03
	12	154.35	2.86E+02	157.43	2.47E-02	2.15E-03
	13	186.27	1.39E+03	160.69	2.24E-02	2.03E-03
	14	210.43	1.26E+02	93.61	2.08E-02	1.85E-03
M	15	235.90	6.47E+02	89.55	1.94E-02	1.66E-03
m	16	238.73	1.85E+02	102.65	1.92E-02	1.64E-03
m	17	242.03	1.34E+03	111.17	1.90E-02	1.61E-03
	18	256.14	6.18E+02	136.26	1.84E-02	1.51E-03
	19	270.44	1.22E+03	143.31	1.77E-02	1.40E-03
	20	285.40	1.22E+02	101.37	1.71E-02	1.33E-03
M	21	295.33	3.00E+03	124.65	1.67E-02	1.31E-03
m	22	299.80	2.83E+02	80.84	1.65E-02	1.30E-03
m	23	303.23	1.63E+02	78.76	1.64E-02	1.29E-03
M	24	324.10	1.35E+02	71.58	1.56E-02	1.25E-03
m	25	329.98	1.52E+02	63.77	1.55E-02	1.24E-03
	26	338.48	7.28E+01	78.31	1.52E-02	1.22E-03
	27	351.92	5.55E+03	177.25	1.48E-02	1.19E-03
	28	388.15	1.38E+02	84.84	1.38E-02	1.12E-03
M	29	401.70	2.44E+02	58.07	1.34E-02	1.10E-03
m	30	404.94	1.36E+02	60.86	1.34E-02	1.10E-03
	31	426.49	9.54E+01	78.13	1.29E-02	1.08E-03
	32	444.85	1.14E+02	67.34	1.25E-02	1.06E-03
	33	453.70	7.65E+01	64.13	1.23E-02	1.05E-03
	34	462.99	6.84E+01	62.60	1.21E-02	1.04E-03
	35	511.51	1.50E+02	67.93	1.12E-02	9.90E-04
	36	582.39	8.38E+01	65.19	1.02E-02	9.16E-04
	37	590.53	4.58E+01	38.95	1.01E-02	9.08E-04
	38	609.30	3.63E+03	137.55	9.83E-03	8.88E-04
	39	664.29	1.17E+02	58.99	9.19E-03	8.32E-04
	40	703.49	7.88E+01	49.41	8.78E-03	7.97E-04
M	41	764.29	2.64E+01	19.67	8.22E-03	7.42E-04
m	42	768.29	3.42E+02	48.86	8.19E-03	7.39E-04
	43	786.08	1.23E+02	50.10	8.04E-03	7.23E-04
	44	806.02	5.57E+01	49.79	7.88E-03	7.05E-04
	45	831.76	6.27E+01	51.97	7.69E-03	6.82E-04
	46	839.48	5.43E+01	43.03	7.63E-03	6.75E-04
	47	864.69	2.19E+01	26.41	7.45E-03	6.52E-04
	48	911.89	8.73E+01	49.53	7.14E-03	6.15E-04
	49	921.33	3.35E+01	35.21	7.08E-03	6.10E-04
	50	934.20	1.70E+02	51.39	7.01E-03	6.04E-04
	51	1063.40	1.82E+01	21.66	6.32E-03	5.36E-04
	52	1069.27	1.85E+01	22.16	6.29E-03	5.33E-04
	53	1120.33	7.63E+02	66.14	6.07E-03	5.07E-04
	54	1154.53	1.07E+02	42.31	5.93E-03	4.89E-04
	55	1191.60	2.55E+01	28.00	5.78E-03	4.76E-04
	56	1238.15	2.71E+02	47.73	5.61E-03	4.68E-04

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	57	1281.04	6.80E+01	28.82	5.47E-03	4.60E-04
m	58	1284.88	2.25E+01	22.78	5.46E-03	4.60E-04
	59	1289.97	1.85E+01	19.05	5.44E-03	4.59E-04
M	60	1377.33	2.21E+02	35.80	5.18E-03	4.40E-04
m	61	1385.33	6.48E+01	26.11	5.16E-03	4.38E-04
M	62	1401.14	4.08E+01	22.12	5.12E-03	4.34E-04
m	63	1407.93	8.21E+01	30.05	5.10E-03	4.32E-04
	64	1460.49	1.13E+02	44.01	4.97E-03	4.19E-04
	65	1509.41	8.09E+01	37.70	4.86E-03	4.07E-04
	66	1545.79	3.05E+01	31.72	4.78E-03	3.98E-04
	67	1559.04	3.73E+01	29.35	4.75E-03	3.95E-04
	68	1582.37	3.95E+01	27.44	4.71E-03	3.89E-04
	69	1588.64	1.69E+01	16.82	4.69E-03	3.87E-04
	70	1594.00	1.58E+01	20.69	4.68E-03	3.86E-04
	71	1661.45	4.52E+01	28.01	4.56E-03	3.69E-04
	72	1697.98	4.98E+01	30.07	4.50E-03	3.60E-04
	73	1729.16	1.48E+02	29.66	4.45E-03	3.52E-04
M	74	1764.32	6.52E+02	51.47	4.40E-03	3.44E-04
	75	1837.82	1.86E+01	15.78	4.29E-03	3.26E-04
	76	1847.14	8.24E+01	28.57	4.28E-03	3.26E-04
	77	1940.58	2.82E+01	17.41	4.17E-03	3.26E-04
	78	1953.25	1.27E+01	11.36	4.16E-03	3.26E-04
M	79	2004.43	1.26E+01	8.83	4.11E-03	3.26E-04
m	80	2010.36	1.35E+01	9.49	4.10E-03	3.26E-04
	81	2025.26	7.36E+00	9.67	4.09E-03	3.26E-04
	82	2100.13	7.31E+00	10.05	4.02E-03	3.26E-04
	83	2118.09	2.82E+01	19.12	4.01E-03	3.26E-04
	84	2203.41	1.75E+02	27.59	3.95E-03	3.26E-04
	85	2248.56	5.44E+00	7.78	3.92E-03	3.26E-04
	86	2293.26	1.00E+01	6.32	3.90E-03	3.26E-04
	87	2446.70	3.99E+01	13.72	3.83E-03	3.26E-04
	88	2614.06	1.90E+01	8.72	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/17/2015 8:13:10AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023400.CNF

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	27.47	2.50E+02	69.89			2.50E+02	6.99E+01
m	2	31.96	3.17E+02	98.27			3.17E+02	9.83E+01
	3	46.53	1.95E+03	179.32	4.45E+01	7.82E+00	1.90E+03	1.79E+02
	4	67.87	3.05E+03	255.06			3.05E+03	2.55E+02
	5	76.38	2.16E+03	243.37			2.16E+03	2.43E+02
	6	83.99	8.87E+02	155.69			8.87E+02	1.56E+02
	7	88.19	8.18E+02	177.61			8.18E+02	1.78E+02
M	8	94.53	5.17E+02	117.01			5.17E+02	1.17E+02
m	9	97.53	1.11E+02	105.38			1.11E+02	1.05E+02
	10	122.72	1.25E+02	130.72			1.25E+02	1.31E+02
	11	143.97	7.35E+02	171.58	1.04E+01	7.41E+00	7.25E+02	1.72E+02
	12	154.35	2.86E+02	157.43			2.86E+02	1.57E+02
	13	186.27	1.39E+03	160.69	6.24E+01	7.25E+00	1.33E+03	1.61E+02
	14	210.43	1.26E+02	93.61			1.26E+02	9.36E+01
M	15	235.90	6.47E+02	89.55			6.47E+02	8.95E+01
m	16	238.73	1.85E+02	102.65	2.02E+01	6.17E+00	1.65E+02	1.03E+02
m	17	242.03	1.34E+03	111.17			1.34E+03	1.11E+02
	18	256.14	6.18E+02	136.26			6.18E+02	1.36E+02
	19	270.44	1.22E+03	143.31			1.22E+03	1.43E+02
	20	285.40	1.22E+02	101.37			1.22E+02	1.01E+02
M	21	295.33	3.00E+03	124.65			3.00E+03	1.25E+02
m	22	299.80	2.83E+02	80.84			2.83E+02	8.08E+01
m	23	303.23	1.63E+02	78.76			1.63E+02	7.88E+01
M	24	324.10	1.35E+02	71.58			1.35E+02	7.16E+01
m	25	329.98	1.52E+02	63.77			1.52E+02	6.38E+01
	26	338.48	7.28E+01	78.31			7.28E+01	7.83E+01
	27	351.92	5.55E+03	177.25	6.12E+00	5.01E+00	5.55E+03	1.77E+02
	28	388.15	1.38E+02	84.84			1.38E+02	8.48E+01
M	29	401.70	2.44E+02	58.07			2.44E+02	5.81E+01
m	30	404.94	1.36E+02	60.86			1.36E+02	6.09E+01
	31	426.49	9.54E+01	78.13			9.54E+01	7.81E+01
	32	444.85	1.14E+02	67.34			1.14E+02	6.73E+01
	33	453.70	7.65E+01	64.13			7.65E+01	6.41E+01
	34	462.99	6.84E+01	62.60			6.84E+01	6.26E+01
	35	511.51	1.50E+02	67.93	8.79E+01	5.49E+00	6.23E+01	6.82E+01
	36	582.39	8.38E+01	65.19	7.08E+00	2.92E+00	7.67E+01	6.53E+01
	37	590.53	4.58E+01	38.95			4.58E+01	3.89E+01
	38	609.30	3.63E+03	137.55	4.94E+00	4.56E+00	3.62E+03	1.38E+02
	39	664.29	1.17E+02	58.99			1.17E+02	5.90E+01
	40	703.49	7.88E+01	49.41			7.88E+01	4.94E+01
M	41	764.29	2.64E+01	19.67			2.64E+01	1.97E+01
m	42	768.29	3.42E+02	48.86			3.42E+02	4.89E+01
	43	786.08	1.23E+02	50.10			1.23E+02	5.01E+01
	44	806.02	5.57E+01	49.79			5.57E+01	4.98E+01
	45	831.76	6.27E+01	51.97			6.27E+01	5.20E+01
	46	839.48	5.43E+01	43.03			5.43E+01	4.30E+01
	47	864.69	2.19E+01	26.41			2.19E+01	2.64E+01
	48	911.89	8.73E+01	49.53	4.20E+00	2.78E+00	8.31E+01	4.96E+01
	49	921.33	3.35E+01	35.21			3.35E+01	3.52E+01
	50	934.20	1.70E+02	51.39			1.70E+02	5.14E+01
	51	1063.40	1.82E+01	21.66			1.82E+01	2.17E+01
	52	1069.27	1.85E+01	22.16			1.85E+01	2.22E+01
	53	1120.33	7.63E+02	66.14			7.63E+02	6.61E+01
	54	1154.53	1.07E+02	42.31			1.07E+02	4.23E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	55	1191.60	2.55E+01	28.00			2.55E+01	2.80E+01
	56	1238.15	2.71E+02	47.73			2.71E+02	4.77E+01
M	57	1281.04	6.80E+01	28.82			6.80E+01	2.88E+01
m	58	1284.88	2.25E+01	22.78			2.25E+01	2.28E+01
	59	1289.97	1.85E+01	19.05			1.85E+01	1.91E+01
M	60	1377.33	2.21E+02	35.80			2.21E+02	3.58E+01
m	61	1385.33	6.48E+01	26.11			6.48E+01	2.61E+01
M	62	1401.14	4.08E+01	22.12			4.08E+01	2.21E+01
m	63	1407.93	8.21E+01	30.05			8.21E+01	3.01E+01
	64	1460.49	1.13E+02	44.01	7.09E+00	2.19E+00	1.05E+02	4.41E+01
	65	1509.41	8.09E+01	37.70			8.09E+01	3.77E+01
	66	1545.79	3.05E+01	31.72			3.05E+01	3.17E+01
	67	1559.04	3.73E+01	29.35			3.73E+01	2.93E+01
	68	1582.37	3.95E+01	27.44			3.95E+01	2.74E+01
	69	1588.64	1.69E+01	16.82			1.69E+01	1.68E+01
	70	1594.00	1.58E+01	20.69			1.58E+01	2.07E+01
	71	1661.45	4.52E+01	28.01			4.52E+01	2.80E+01
	72	1697.98	4.98E+01	30.07			4.98E+01	3.01E+01
	73	1729.16	1.48E+02	29.66			1.48E+02	2.97E+01
M	74	1764.32	6.52E+02	51.47	2.53E+00	4.67E-01	6.49E+02	5.15E+01
	75	1837.82	1.86E+01	15.78			1.86E+01	1.58E+01
	76	1847.14	8.24E+01	28.57			8.24E+01	2.86E+01
	77	1940.58	2.82E+01	17.41			2.82E+01	1.74E+01
	78	1953.25	1.27E+01	11.36			1.27E+01	1.14E+01
M	79	2004.43	1.26E+01	8.83			1.26E+01	8.83E+00
m	80	2010.36	1.35E+01	9.49			1.35E+01	9.49E+00
	81	2025.26	7.36E+00	9.67			7.36E+00	9.67E+00
	82	2100.13	7.31E+00	10.05			7.31E+00	1.00E+01
	83	2118.09	2.82E+01	19.12			2.82E+01	1.91E+01
	84	2203.41	1.75E+02	27.59			1.75E+02	2.76E+01
	85	2248.56	5.44E+00	7.78			5.44E+00	7.78E+00
	86	2293.26	1.00E+01	6.32			1.00E+01	6.32E+00
	87	2446.70	3.99E+01	13.72			3.99E+01	1.37E+01
	88	2614.06	1.90E+01	8.72	5.15E+00	1.46E+00	1.39E+01	8.84E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 6/17/2015 8:13:10AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023400.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	27.47	2.50E+02	69.89			2.50E+02	6.99E+01
m	2	31.96	3.17E+02	98.27			3.17E+02	9.83E+01
	3	46.53	1.95E+03	179.32	4.45E+01	7.82E+00	1.90E+03	1.79E+02
	4	67.87	3.05E+03	255.06			3.05E+03	2.55E+02
	5	76.38	2.16E+03	243.37			2.16E+03	2.43E+02
	6	83.99	8.87E+02	155.69			8.87E+02	1.56E+02
	7	88.19	8.18E+02	177.61			8.18E+02	1.78E+02
M	8	94.53	5.17E+02	117.01			5.17E+02	1.17E+02
m	9	97.53	1.11E+02	105.38			1.11E+02	1.05E+02
	10	122.72	1.25E+02	130.72			1.25E+02	1.31E+02
	11	143.97	7.35E+02	171.58	1.04E+01	7.41E+00	7.25E+02	1.72E+02
	12	154.35	2.86E+02	157.43			2.86E+02	1.57E+02
	13	186.27	1.39E+03	160.69	6.24E+01	7.25E+00	1.33E+03	1.61E+02
	14	210.43	1.26E+02	93.61			1.26E+02	9.36E+01
M	15	235.90	6.47E+02	89.55			6.47E+02	8.95E+01
m	16	238.73	1.85E+02	102.65	2.02E+01	6.17E+00	1.65E+02	1.03E+02
m	17	242.03	1.34E+03	111.17			1.34E+03	1.11E+02
	18	256.14	6.18E+02	136.26			6.18E+02	1.36E+02
	19	270.44	1.22E+03	143.31			1.22E+03	1.43E+02
	20	285.40	1.22E+02	101.37			1.22E+02	1.01E+02
M	21	295.33	3.00E+03	124.65			3.00E+03	1.25E+02
m	22	299.80	2.83E+02	80.84			2.83E+02	8.08E+01
m	23	303.23	1.63E+02	78.76			1.63E+02	7.88E+01
M	24	324.10	1.35E+02	71.58			1.35E+02	7.16E+01
m	25	329.98	1.52E+02	63.77			1.52E+02	6.38E+01
	26	338.48	7.28E+01	78.31			7.28E+01	7.83E+01
	27	351.92	5.55E+03	177.25	6.12E+00	5.01E+00	5.55E+03	1.77E+02
	28	388.15	1.38E+02	84.84			1.38E+02	8.48E+01
M	29	401.70	2.44E+02	58.07			2.44E+02	5.81E+01
m	30	404.94	1.36E+02	60.86			1.36E+02	6.09E+01
	31	426.49	9.54E+01	78.13			9.54E+01	7.81E+01
	32	444.85	1.14E+02	67.34			1.14E+02	6.73E+01
	33	453.70	7.65E+01	64.13			7.65E+01	6.41E+01
	34	462.99	6.84E+01	62.60			6.84E+01	6.26E+01
	35	511.51	1.50E+02	67.93	8.79E+01	5.49E+00	6.23E+01	6.82E+01
	36	582.39	8.38E+01	65.19	7.08E+00	2.92E+00	7.67E+01	6.53E+01
	37	590.53	4.58E+01	38.95			4.58E+01	3.89E+01
	38	609.30	3.63E+03	137.55	4.94E+00	4.56E+00	3.62E+03	1.38E+02
	39	664.29	1.17E+02	58.99			1.17E+02	5.90E+01
	40	703.49	7.88E+01	49.41			7.88E+01	4.94E+01
M	41	764.29	2.64E+01	19.67			2.64E+01	1.97E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	42	768.29	3.42E+02	48.86			3.42E+02	4.89E+01
	43	786.08	1.23E+02	50.10			1.23E+02	5.01E+01
	44	806.02	5.57E+01	49.79			5.57E+01	4.98E+01
	45	831.76	6.27E+01	51.97			6.27E+01	5.20E+01
	46	839.48	5.43E+01	43.03			5.43E+01	4.30E+01
	47	864.69	2.19E+01	26.41			2.19E+01	2.64E+01
	48	911.89	8.73E+01	49.53	4.20E+00	2.78E+00	8.31E+01	4.96E+01
	49	921.33	3.35E+01	35.21			3.35E+01	3.52E+01
	50	934.20	1.70E+02	51.39			1.70E+02	5.14E+01
	51	1063.40	1.82E+01	21.66			1.82E+01	2.17E+01
	52	1069.27	1.85E+01	22.16			1.85E+01	2.22E+01
	53	1120.33	7.63E+02	66.14			7.63E+02	6.61E+01
	54	1154.53	1.07E+02	42.31			1.07E+02	4.23E+01
	55	1191.60	2.55E+01	28.00			2.55E+01	2.80E+01
	56	1238.15	2.71E+02	47.73			2.71E+02	4.77E+01
M	57	1281.04	6.80E+01	28.82			6.80E+01	2.88E+01
m	58	1284.88	2.25E+01	22.78			2.25E+01	2.28E+01
	59	1289.97	1.85E+01	19.05			1.85E+01	1.91E+01
M	60	1377.33	2.21E+02	35.80			2.21E+02	3.58E+01
m	61	1385.33	6.48E+01	26.11			6.48E+01	2.61E+01
M	62	1401.14	4.08E+01	22.12			4.08E+01	2.21E+01
m	63	1407.93	8.21E+01	30.05			8.21E+01	3.01E+01
	64	1460.49	1.13E+02	44.01	7.09E+00	2.19E+00	1.05E+02	4.41E+01
	65	1509.41	8.09E+01	37.70			8.09E+01	3.77E+01
	66	1545.79	3.05E+01	31.72			3.05E+01	3.17E+01
	67	1559.04	3.73E+01	29.35			3.73E+01	2.93E+01
	68	1582.37	3.95E+01	27.44			3.95E+01	2.74E+01
	69	1588.64	1.69E+01	16.82			1.69E+01	1.68E+01
	70	1594.00	1.58E+01	20.69			1.58E+01	2.07E+01
	71	1661.45	4.52E+01	28.01			4.52E+01	2.80E+01
	72	1697.98	4.98E+01	30.07			4.98E+01	3.01E+01
	73	1729.16	1.48E+02	29.66			1.48E+02	2.97E+01
M	74	1764.32	6.52E+02	51.47	2.53E+00	4.67E-01	6.49E+02	5.15E+01
	75	1837.82	1.86E+01	15.78			1.86E+01	1.58E+01
	76	1847.14	8.24E+01	28.57			8.24E+01	2.86E+01
	77	1940.58	2.82E+01	17.41			2.82E+01	1.74E+01
	78	1953.25	1.27E+01	11.36			1.27E+01	1.14E+01
M	79	2004.43	1.26E+01	8.83			1.26E+01	8.83E+00
m	80	2010.36	1.35E+01	9.49			1.35E+01	9.49E+00
	81	2025.26	7.36E+00	9.67			7.36E+00	9.67E+00
	82	2100.13	7.31E+00	10.05			7.31E+00	1.00E+01
	83	2118.09	2.82E+01	19.12			2.82E+01	1.91E+01
	84	2203.41	1.75E+02	27.59			1.75E+02	2.76E+01
	85	2248.56	5.44E+00	7.78			5.44E+00	7.78E+00
	86	2293.26	1.00E+01	6.32			1.00E+01	6.32E+00
	87	2446.70	3.99E+01	13.72			3.99E+01	1.37E+01
	88	2614.06	1.90E+01	8.72	5.15E+00	1.46E+00	1.39E+01	8.84E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.983	1460.81	*	10.67	4.52E+00	1.93E+00
CO-57	0.768	122.06	*	85.51	1.24E-01	1.30E-01
		136.48		10.60		
CD-109	0.996	88.03	*	3.72	1.77E+01	4.33E+00
SN-126	0.941	87.57	*	37.00	1.76E+00	4.19E-01
PM-146	0.420	453.90	*	39.94	3.55E-01	2.99E-01
		735.90		14.01		
		747.13		13.10		
PM-149	0.931	285.90	*	3.10	3.11E+01	2.60E+01
GD-153	0.336	97.43	*	31.30	2.87E-01	2.74E-01
		103.18		22.20		
TA-182	0.471	67.75	*	41.20	6.67E+00	7.66E-01
		1121.30	*	34.90	8.49E+00	1.02E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.824	583.14	*	30.22	5.68E-01	4.85E-01
		860.37		4.48		
		2614.66	*	35.85	2.32E-01	1.49E-01
PB-210	1.000	46.50	*	4.25	6.05E+01	8.60E+00
PB-211	0.996	404.84	*	2.90	8.01E+00	3.64E+00
		831.96	*	2.90	6.40E+00	5.33E+00
PB-212	0.998	238.63	*	44.60	4.38E-01	2.76E-01
		300.09	*	3.41	1.14E+01	3.39E+00
BI-214	0.993	609.31	*	46.30	1.81E+01	1.78E+00
		1120.29	*	15.10	1.90E+01	2.28E+00
		1764.49	*	15.80	2.13E+01	2.37E+00
		2204.22	*	4.98	2.02E+01	3.60E+00
PB-214	0.999	295.21	*	19.19	2.13E+01	1.89E+00
		351.92	*	37.19	2.30E+01	2.00E+00
RN-219	0.998	401.80	*	6.50	6.36E+00	1.60E+00
RA-223	0.992	323.87	*	3.88	5.07E+00	2.71E+00
RA-226	0.999	186.21	*	3.28	4.11E+01	7.54E+01
TH-227	0.486	50.10		8.40		
		236.00	*	11.50	6.61E+00	1.08E+00
		256.20	*	6.30	1.22E+01	2.86E+00
AC-228	0.518	338.32	*	11.40	9.57E-01	1.03E+00
		911.07	*	27.70	9.55E-01	5.76E-01
		969.11		16.60		
PA-231	0.306	283.67		1.60		
		302.67	*	2.30	9.84E+00	4.82E+00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TH-231	0.376	25.64		14.70		
		84.21	*	6.40	1.11E+01	2.20E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 8:13:10AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.47	6.95182E-02	13.96		
m	2	31.96	8.79933E-02	15.51		
	5	76.38	6.00917E-01	5.62		
M	8	94.53	1.43705E-01	11.31		
	11	143.97	2.01402E-01	11.84	Sum	
	12	154.35	7.93191E-02	27.57		
	14	210.43	3.50259E-02	37.12	Sum	
m	17	242.03	3.71220E-01	4.16		
	19	270.44	3.37957E-01	5.89	Sum	
m	25	329.98	4.20924E-02	21.04		
	28	388.15	3.82017E-02	30.85	Sum	
	31	426.49	2.65012E-02	40.95	Sum	
	32	444.85	3.17154E-02	29.49		
	34	462.99	1.89934E-02	45.78	Tol.	SB-125
	35	511.51	1.73034E-02	54.71	Sum	
	37	590.53	1.27149E-02	42.54	Sum	
	39	664.29	3.23947E-02	25.29	Tol.	CE-143
	40	703.49	2.18783E-02	31.36	Sum	
M	41	764.29	7.33986E-03	37.21	Tol.	AG-110M
m	42	768.29	9.48654E-02	7.15	Sum	
	43	786.08	3.41780E-02	20.36		
	44	806.02	1.54778E-02	44.68	Sum	
	46	839.48	1.50899E-02	39.61	Sum	
	47	864.69	6.08025E-03	60.33	Sum	
	49	921.33	9.30996E-03	52.53	Sum	
	50	934.20	4.71547E-02	15.14	Sum	
	51	1063.40	5.05465E-03	59.51	Sum	

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	52	1069.27	5.13889E-03	59.90		
	54	1154.53	2.98331E-02	19.70		
	55	1191.60	7.09325E-03	54.83	Sum	
	56	1238.15	7.52528E-02	8.81	Tol.	CO-56
M	57	1281.04	1.88920E-02	21.19		
m	58	1284.88	6.25023E-03	50.62	Sum	
	59	1289.97	5.13889E-03	51.49		
M	60	1377.33	6.13253E-02	8.11	Sum	
m	61	1385.33	1.80061E-02	20.14		
M	62	1401.14	1.13273E-02	27.12		
m	63	1407.93	2.28048E-02	18.30	Tol.	EU-152
	65	1509.41	2.24634E-02	23.31		
	66	1545.79	8.47690E-03	51.97		
	67	1559.04	1.03472E-02	39.39		
	68	1582.37	1.09654E-02	34.76	Sum	
	69	1588.64	4.68835E-03	49.81		
	70	1594.00	4.39727E-03	65.34		
	71	1661.45	1.25469E-02	31.01		
	72	1697.98	1.38304E-02	30.19		
	73	1729.16	4.11186E-02	10.02	Sum	
	75	1837.82	5.15681E-03	42.50		
	76	1847.14	2.28947E-02	17.33		
	77	1940.58	7.84188E-03	30.83		
	78	1953.25	3.52778E-03	44.72		
M	79	2004.43	3.50407E-03	35.01		
m	80	2010.36	3.75299E-03	35.11		
	81	2025.26	2.04365E-03	65.72		
	82	2100.13	2.02991E-03	68.76		
	83	2118.09	7.83213E-03	33.90		
	85	2248.56	1.51235E-03	71.43		
	86	2293.26	2.77778E-03	31.62		
	87	2446.70	1.10946E-02	17.18		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	4.52E+00	1.93E+00
CO-57	0.76	122.06	*	85.51	1.24E-01	1.30E-01
		136.48		10.60		
CD-109	0.99	88.03	*	3.72	1.77E+01	4.33E+00
SN-126	0.94	87.57	*	37.00	1.76E+00	4.19E-01
PM-146	0.42	453.90	*	39.94	3.55E-01	2.99E-01
		735.90		14.01		
		747.13		13.10		
PM-149	0.93	285.90	*	3.10	3.11E+01	2.60E+01
GD-153	0.33	97.43	*	31.30	2.87E-01	2.74E-01
		103.18		22.20		
TA-182	0.47	67.75	*	41.20	6.67E+00	7.66E-01
		1121.30	*	34.90	8.49E+00	1.02E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.82	583.14	*	30.22	5.68E-01	4.85E-01
		860.37		4.48		
		2614.66	*	35.85	2.32E-01	1.49E-01
PB-210	1.00	46.50	*	4.25	6.05E+01	8.60E+00
PB-211	0.99	404.84	*	2.90	8.01E+00	3.64E+00
		831.96	*	2.90	6.40E+00	5.33E+00
PB-212	0.99	238.63	*	44.60	4.38E-01	2.76E-01
		300.09	*	3.41	1.14E+01	3.39E+00
BI-214	0.99	609.31	*	46.30	1.81E+01	1.78E+00
		1120.29	*	15.10	1.90E+01	2.28E+00
		1764.49	*	15.80	2.13E+01	2.37E+00
		2204.22	*	4.98	2.02E+01	3.60E+00
PB-214	0.99	295.21	*	19.19	2.13E+01	1.89E+00
		351.92	*	37.19	2.30E+01	2.00E+00
RN-219	0.99	401.80	*	6.50	6.36E+00	1.60E+00
RA-223	0.99	323.87	*	3.88	5.07E+00	2.71E+00
RA-226	0.99	186.21	*	3.28	4.11E+01	7.54E+01
TH-227	0.48	50.10		8.40		
		236.00	*	11.50	6.61E+00	1.08E+00
		256.20	*	6.30	1.22E+01	2.86E+00
AC-228	0.51	338.32	*	11.40	9.57E-01	1.03E+00
		911.07	*	27.70	9.55E-01	5.76E-01
		969.11		16.60		
PA-231	0.30	283.67		1.60		
		302.67	*	2.30	9.84E+00	4.82E+00
TH-231	0.37	25.64		14.70		
		84.21	*	6.40	1.11E+01	2.20E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.983	4.52E+00	1.93E+00	
	CO-57	0.768	1.24E-01	1.30E-01	
X	NB-95M	0.981			
?	CD-109	0.996	1.77E+01	4.33E+00	
?	SN-126	0.941	1.76E+00	4.19E-01	
	PM-146	0.420	3.55E-01	2.99E-01	
	PM-149	0.931	3.11E+01	2.60E+01	
	GD-153	0.336	2.87E-01	2.74E-01	
	TA-182	0.471	4.64E+00	6.43E-01	
	TL-208	0.824	2.61E-01	1.43E-01	
	PB-210	1.000	6.05E+01	8.60E+00	
	PB-211	0.996	7.50E+00	3.00E+00	
	PB-212	0.998	5.11E-01	2.75E-01	
	BI-214	0.993	1.67E+01	1.20E+00	
	PB-214	0.999	2.21E+01	1.37E+00	
	RN-219	0.998	6.36E+00	1.60E+00	
	RA-223	0.992	5.07E+00	2.71E+00	
	RA-226	0.999	4.11E+01	7.54E+01	
	TH-227	0.486	7.30E+00	1.01E+00	
	AC-228	0.518	9.56E-01	5.03E-01	
	PA-231	0.306	9.84E+00	4.82E+00	
	TH-231	0.376	1.11E+01	2.20E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/17/2015 8:13:10AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.47	6.95182E-02	13.96		
m	2	31.96	8.79933E-02	15.51		
	5	76.38	6.00917E-01	5.62		
M	8	94.53	1.43705E-01	11.31		
	11	143.97	2.01402E-01	11.84	Sum	
	12	154.35	7.93191E-02	27.57		
	14	210.43	3.50259E-02	37.12	Sum	
m	17	242.03	3.71220E-01	4.16		
	19	270.44	3.37957E-01	5.89	Sum	
m	25	329.98	4.20924E-02	21.04		
	28	388.15	3.82017E-02	30.85	Sum	
	31	426.49	2.65012E-02	40.95	Sum	
	32	444.85	3.17154E-02	29.49		
	34	462.99	1.89934E-02	45.78	Tol.	SB-125
	35	511.51	1.73034E-02	54.71	Sum	
	37	590.53	1.27149E-02	42.54	Sum	
	39	664.29	3.23947E-02	25.29	Tol.	CE-143
	40	703.49	2.18783E-02	31.36	Sum	
M	41	764.29	7.33986E-03	37.21	Tol.	AG-110M
m	42	768.29	9.48654E-02	7.15	Sum	
	43	786.08	3.41780E-02	20.36		
	44	806.02	1.54778E-02	44.68	Sum	
	46	839.48	1.50899E-02	39.61	Sum	
	47	864.69	6.08025E-03	60.33	Sum	
	49	921.33	9.30996E-03	52.53	Sum	
	50	934.20	4.71547E-02	15.14	Sum	
	51	1063.40	5.05465E-03	59.51	Sum	
	52	1069.27	5.13889E-03	59.90		
	54	1154.53	2.98331E-02	19.70		
	55	1191.60	7.09325E-03	54.83	Sum	
	56	1238.15	7.52528E-02	8.81	Tol.	CO-56
M	57	1281.04	1.88920E-02	21.19		
m	58	1284.88	6.25023E-03	50.62	Sum	
	59	1289.97	5.13889E-03	51.49		
M	60	1377.33	6.13253E-02	8.11	Sum	

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	61	1385.33	1.80061E-02	20.14		
M	62	1401.14	1.13273E-02	27.12		
m	63	1407.93	2.28048E-02	18.30	Tol.	EU-152
	65	1509.41	2.24634E-02	23.31		
	66	1545.79	8.47690E-03	51.97		
	67	1559.04	1.03472E-02	39.39		
	68	1582.37	1.09654E-02	34.76	Sum	
	69	1588.64	4.68835E-03	49.81		
	70	1594.00	4.39727E-03	65.34		
	71	1661.45	1.25469E-02	31.01		
	72	1697.98	1.38304E-02	30.19		
	73	1729.16	4.11186E-02	10.02	Sum	
	75	1837.82	5.15681E-03	42.50		
	76	1847.14	2.28947E-02	17.33		
	77	1940.58	7.84188E-03	30.83		
	78	1953.25	3.52778E-03	44.72		
M	79	2004.43	3.50407E-03	35.01		
m	80	2010.36	3.75299E-03	35.11		
	81	2025.26	2.04365E-03	65.72		
	82	2100.13	2.02991E-03	68.76		
	83	2118.09	7.83213E-03	33.90		
	85	2248.56	1.51235E-03	71.43		
	86	2293.26	2.77778E-03	31.62		
	87	2446.70	1.10946E-02	17.18		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	7.16E-01	1.59E+00	1.59E+00
+	NA-22	1274.54	99.94	9.14E-02	1.79E-01	1.79E-01
+	NA-24	1368.53	99.99	-1.94E+01	3.04E+01	8.92E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	NA-24	2754.09		99.86	-3.28E+00	3.04E+01	3.04E+01
+	AL-26	1808.65		99.76	-2.63E-03	1.09E-01	1.09E-01
+	K-40	1460.81	*	10.67	4.52E+00	2.87E+00	2.87E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	2.96E+00	3.00E-01	3.31E-01
		78.34		96.00	-2.81E-01		3.00E-01
+	SC-46	889.25		99.98	-1.24E-02	1.79E-01	1.79E-01
		1120.51		99.99	2.96E+00		5.37E-01
+	V-48	983.52		99.98	3.67E-02	2.10E-01	2.10E-01
		1312.10		97.50	-8.13E-02		2.12E-01
+	CR-51	320.08		9.83	2.32E-01	1.54E+00	1.54E+00
+	MN-54	834.83		99.97	-9.38E-02	2.06E-01	2.06E-01
+	CO-56	846.75		99.96	1.31E-03	1.60E-01	1.60E-01
		1037.75		14.03	-3.86E-01		1.21E+00
		1238.25		67.00	1.72E+00		5.63E-01
		1771.40		15.51	-2.81E-01		8.27E-01
		2598.48		16.90	-9.32E-02		3.46E-01
+	CO-57	122.06	*	85.51	1.24E-01	2.13E-01	2.13E-01
		136.48		10.60	-6.43E-01		1.29E+00
+	CO-58	810.76		99.40	-6.17E-03	1.53E-01	1.53E-01
+	FE-59	1099.22		56.50	-7.76E-02	2.97E-01	2.97E-01
		1291.56		43.20	4.98E-02		3.90E-01
+	CO-60	1173.22		100.00	-8.99E-02	1.57E-01	1.57E-01
		1332.49		100.00	4.47E-02		1.77E-01
+	ZN-65	1115.52		50.75	4.86E-02	5.26E-01	5.26E-01
+	GA-67	93.31		35.70	4.02E+00	1.72E+00	1.72E+00
		208.95		2.24	3.44E+00		2.19E+01
		300.22		16.00	-4.92E+01		3.53E+00
+	SE-75	121.11		16.70	4.87E-02	2.33E-01	8.31E-01
		136.00		59.20	2.30E-02		2.36E-01
		264.65		59.80	8.38E-02		2.33E-01
		279.53		25.20	-4.22E-02		5.31E-01
		400.65		11.40	1.90E+00		1.66E+00
+	RB-82	776.52		13.00	2.08E-02	1.39E+00	1.39E+00
+	RB-83	520.41		46.00	3.33E-01	3.51E-01	3.51E-01
		529.64		30.30	3.84E-02		5.04E-01
		552.65		16.40	9.88E-02		8.23E-01
+	KR-85	513.99		0.43	5.45E+00	3.93E+01	3.93E+01
+	SR-85	513.99		99.27	2.53E-02	1.82E-01	1.82E-01
+	Y-88	898.02		93.40	9.85E-02	1.49E-01	2.05E-01
		1836.01		99.38	1.02E-01		1.49E-01
+	NB-93M	16.57		9.43	-1.78E+01	2.44E+02	2.44E+02
+	NB-94	702.63		100.00	1.81E-01	1.69E-01	1.69E-01
		871.10		100.00	1.67E-02		1.71E-01
+	NB-95	765.79		99.81	9.33E-01	3.17E-01	3.17E-01
+	NB-95M	235.69	*	25.00	9.05E+00	3.96E+00	3.96E+00
+	ZR-95	724.18		43.70	-1.31E-01	2.95E-01	3.67E-01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	ZR-95	756.72		55.30	-2.42E-02	2.95E-01	2.95E-01
+	MO-99	181.06		6.20	1.42E+00	5.17E+00	9.80E+00
		739.58		12.80	5.44E-01		5.17E+00
		778.00		4.50	3.06E+00		1.42E+01
+	RU-103	497.08		89.00	2.42E-02	1.69E-01	1.69E-01
+	RU-106	621.84		9.80	-2.02E-01	1.48E+00	1.48E+00
+	AG-108M	433.93		89.90	-5.49E-02	1.64E-01	1.64E-01
		614.37		90.40	-1.31E-02		1.71E-01
		722.95		90.50	6.77E-02		1.75E-01
+	CD-109	88.03	*	3.72	1.77E+01	6.04E+00	6.04E+00
+	AG-110M	657.75		93.14	2.32E-02	1.62E-01	1.62E-01
		677.61		10.53	-4.96E-01		1.36E+00
		706.67		16.46	2.67E-02		9.48E-01
		763.93		21.98	3.42E-02		8.45E-01
		884.67		71.63	-5.51E-04		2.48E-01
		1384.27		23.94	2.33E-01		9.20E-01
+	CD-113M	263.70		0.02	-4.76E+01	5.80E+02	5.80E+02
+	SN-113	255.12		1.93	2.16E+01	2.14E-01	9.67E+00
		391.69		64.90	2.74E-02		2.14E-01
+	TE123M	159.00		84.10	7.31E-02	1.88E-01	1.88E-01
+	SB-124	602.71		97.87	-2.07E-03	1.61E-01	1.61E-01
		645.85		7.26	1.52E-01		2.20E+00
		722.78		11.10	5.89E-01		1.52E+00
		1691.02		49.00	5.73E-02		3.32E-01
+	I-125	35.49		6.49	3.93E+00	6.75E+00	6.75E+00
+	SB-125	176.33		6.89	8.94E-01	5.93E-01	2.07E+00
		427.89		29.33	2.98E-01		5.93E-01
		463.38		10.35	8.38E-01		1.47E+00
		600.56		17.80	2.24E-01		8.61E-01
		635.90		11.32	-3.70E-01		1.25E+00
+	SB-126	414.70		83.30	-1.01E-01	1.97E-01	2.63E-01
		666.33		99.60	2.98E-01		2.48E-01
		695.00		99.60	-2.46E-02		1.97E-01
		720.50		53.80	1.34E-01		4.02E-01
+	SN-126	87.57	*	37.00	1.76E+00	6.02E-01	6.02E-01
+	SB-127	473.00		25.00	2.42E-01	1.18E+00	1.67E+00
		685.20		35.70	3.96E-01		1.18E+00
		783.80		14.70	2.87E+00		3.54E+00
+	I-129	29.78		57.00	-1.59E+00	1.51E+00	1.51E+00
		33.60		13.20	-1.84E+00		4.03E+00
		39.58		7.52	-2.70E+00		4.32E+00
+	I-131	284.30		6.05	4.44E+00	2.57E-01	4.02E+00
		364.48		81.20	3.31E-02		2.57E-01
		636.97		7.26	-1.97E+00		3.11E+00
		722.89		1.80	5.56E+00		1.43E+01
+	TE-132	49.72		13.10	1.02E+01	5.42E-01	6.98E+00
		228.16		88.00	1.63E-01		5.42E-01
+	BA-133	81.00		33.00	2.10E+00	2.62E-01	6.94E-01
		302.84		17.80	1.16E+00		9.54E-01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-133	356.01		60.00	-1.44E-03	2.62E-01	2.62E-01
+	I-133	529.87		86.30	1.21E+00	1.59E+01	1.59E+01
+	CS-134	563.23		8.38	6.36E-01	1.79E-01	1.72E+00
		569.32		15.43	-1.23E-01		9.49E-01
		604.70		97.60	-7.17E+00		2.44E-01
		795.84		85.40	-5.16E-02		1.79E-01
		801.93		8.73	1.67E-01		1.99E+00
+	CS-135	268.24		16.00	4.72E+00	1.41E+00	1.41E+00
+	I-135	1131.51		22.50	5.46E+05	1.00E+06	1.27E+06
		1260.41		28.60	3.13E+05		1.00E+06
		1678.03		9.54	-4.77E+05		1.91E+06
+	CS-136	153.22		7.46	7.54E+00	2.17E-01	3.11E+00
		163.89		4.61	-2.87E+00		4.19E+00
		176.55		13.56	6.11E-01		1.42E+00
		273.65		12.66	-2.58E+00		1.84E+00
		340.57		48.50	2.06E-01		4.17E-01
		818.50		99.70	5.14E-02		2.17E-01
		1048.07		79.60	-5.23E-02		2.69E-01
		1235.34		19.70	7.99E-02		2.22E+00
+	CS-137	661.65		85.12	-6.22E-03	2.00E-01	2.00E-01
+	LA-138	788.74		34.00	3.07E-01	2.48E-01	5.29E-01
		1435.80		66.00	2.99E-02		2.48E-01
+	CE-139	165.85		80.35	1.52E-01	1.86E-01	1.86E-01
+	BA-140	162.64		6.70	5.58E-01	8.04E-01	2.95E+00
		304.84		4.50	3.18E+00		4.63E+00
		423.70		3.20	-2.09E+00		7.26E+00
		437.55		2.00	-3.59E+00		9.76E+00
		537.32		25.00	1.66E-01		8.04E-01
+	LA-140	328.77		20.50	8.98E-01	2.77E-01	1.07E+00
		487.03		45.50	2.07E-01		4.44E-01
		815.85		23.50	3.81E-02		8.91E-01
		1596.49		95.49	4.03E-02		2.77E-01
+	CE-141	145.44		48.40	1.22E+00	4.18E-01	4.18E-01
+	CE-143	57.36		11.80	-1.62E+01	1.50E+01	3.14E+01
		293.26		42.00	1.48E+02		1.50E+01
		664.55		5.20	6.52E+01		6.12E+01
+	CE-144	133.54		10.80	-1.55E-02	1.27E+00	1.27E+00
+	PM-144	476.78		42.00	-1.04E-01	1.43E-01	3.59E-01
		618.01		98.60	-2.27E-02		1.43E-01
		696.49		99.49	-4.44E-02		1.46E-01
+	PM-145	36.85		21.70	-3.25E-01	9.28E-01	1.72E+00
		37.36		39.70	-7.20E-01		9.28E-01
		42.30		15.10	1.00E-01		2.01E+00
		72.40		2.31	-2.01E+01		1.00E+01
+	PM-146	453.90	*	39.94	3.55E-01	4.84E-01	4.84E-01
		735.90		14.01	7.72E-02		1.09E+00
		747.13		13.10	-2.99E-01		1.12E+00
+	ND-147	91.11		28.90	-3.03E+00	9.17E-01	9.17E-01
		531.02		13.10	3.20E-01		1.60E+00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-149	285.90	*	3.10	3.11E+01	4.22E+01	4.22E+01
+	EU-152	121.78		20.50	4.55E-01	6.66E-01	6.66E-01
		244.69		5.40	4.61E+00		3.51E+00
		344.27		19.13	-6.80E-03		6.99E-01
		778.89		9.20	-1.51E-02		1.63E+00
		964.01		10.40	6.16E-01		1.77E+00
		1085.78		7.22	2.58E-01		2.26E+00
		1112.02		9.60	4.28E-01		1.85E+00
		1407.95		14.94	2.62E+00		1.68E+00
+	GD-153	97.43	*	31.30	2.87E-01	5.97E-01	7.80E-01
		103.18		22.20	8.51E-02		5.97E-01
+	EU-154	123.07		40.50	3.28E-01	3.42E-01	3.42E-01
		723.30		19.70	3.12E-01		8.03E-01
		873.19		11.50	1.18E+00		1.55E+00
		996.32		10.30	4.12E-02		1.59E+00
		1004.76		17.90	-3.37E-01		9.06E-01
		1274.45		35.50	2.57E-01		5.02E-01
+	EU-155	86.50		30.90	-2.17E+00	6.31E-01	7.33E-01
		105.30		20.70	-2.51E-02		6.31E-01
+	EU-156	811.77		10.40	6.36E-02	1.83E+00	1.83E+00
		1153.47		7.20	6.29E+00		4.21E+00
		1230.71		8.90	3.52E-01		2.54E+00
+	HO-166M	184.41		72.60	1.57E+00	2.64E-01	3.06E-01
		280.45		29.60	-8.33E-02		4.36E-01
		410.94		11.10	-2.30E-02		1.39E+00
		711.69		54.10	1.16E-03		2.64E-01
+	TM-171	66.72		0.14	1.98E+03	2.28E+02	2.28E+02
+	HF-172	81.75		4.52	1.54E+01	1.20E+00	5.63E+00
		125.81		11.30	-1.54E-01		1.20E+00
+	LU-172	181.53		20.60	6.12E-02	4.35E-01	1.28E+00
		810.06		16.63	-3.92E-01		1.67E+00
		912.12		15.25	2.98E+00		2.45E+00
		1093.66		62.50	-1.26E-01		4.35E-01
+	LU-173	100.72		5.24	-4.77E-01	1.12E+00	2.65E+00
		272.11		21.20	5.21E+00		1.12E+00
+	HF-175	343.40		84.00	-1.63E-03	1.72E-01	1.72E-01
+	LU-176	88.34		13.30	7.52E+00	1.43E-01	1.60E+00
		201.83		86.00	-7.88E-02		1.65E-01
		306.78		94.00	-1.12E-01		1.43E-01
+	TA-182	67.75	*	41.20	6.67E+00	6.78E-01	1.98E+00
		1121.30	*	34.90	8.49E+00		6.95E-01
		1189.05		16.23	-2.63E-01		1.05E+00
		1221.41		26.98	-1.21E-01		6.78E-01
		1231.02		11.44	2.19E-01		1.58E+00
+	IR-192	308.46		29.68	-6.55E-02	3.17E-01	4.58E-01
		468.07		48.10	7.63E-02		3.17E-01
+	HG-203	279.19		77.30	-3.67E-02	1.87E-01	1.87E-01
+	BI-207	569.67		97.72	1.13E-02	1.52E-01	1.52E-01
		1063.62		74.90	-7.55E-03		2.12E-01

Analysis Report for 1506043-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TL-208	583.14	*	30.22	5.68E-01	1.76E-01	7.85E-01
		860.37		4.48	-1.15E+00		3.45E+00
		2614.66	*	35.85	2.32E-01		1.76E-01
+	BI-210M	262.00		45.00	-5.62E-02	3.11E-01	3.11E-01
		300.00		23.00	-1.02E+01		7.34E-01
+	PB-210	46.50	*	4.25	6.05E+01	8.31E+00	8.31E+00
+	PB-211	404.84	*	2.90	8.01E+00	8.58E+00	1.04E+01
		831.96	*	2.90	6.40E+00		8.58E+00
+	BI-212	727.17		11.80	-1.92E-01	1.23E+00	1.23E+00
		1620.62		2.75	-8.81E-01		5.03E+00
+	PB-212	238.63	*	44.60	4.38E-01	7.59E-01	7.59E-01
		300.09	*	3.41	1.14E+01		1.03E+01
+	BI-214	609.31	*	46.30	1.81E+01	5.63E-01	5.63E-01
		1120.29	*	15.10	1.90E+01		1.55E+00
		1764.49	*	15.80	2.13E+01		1.06E+00
		2204.22	*	4.98	2.02E+01		1.82E+00
+	PB-214	295.21	*	19.19	2.13E+01	6.67E-01	1.81E+00
		351.92	*	37.19	2.30E+01		6.67E-01
+	RN-219	401.80	*	6.50	6.36E+00	4.62E+00	4.62E+00
+	RA-223	323.87	*	3.88	5.07E+00	8.69E+00	8.69E+00
+	RA-224	240.98		3.95	3.27E+01	6.38E+00	6.38E+00
+	RA-225	40.00		31.00	-8.33E-01	1.33E+00	1.33E+00
+	RA-226	186.21	*	3.28	4.11E+01	7.40E+00	7.40E+00
+	TH-227	50.10		8.40	4.71E+00	2.89E+00	3.21E+00
		236.00	*	11.50	6.61E+00		2.89E+00
		256.20	*	6.30	1.22E+01		4.16E+00
+	AC-228	338.32	*	11.40	9.57E-01	9.04E-01	1.69E+00
		911.07	*	27.70	9.55E-01		9.04E-01
		969.11		16.60	-3.81E-01		1.05E+00
+	TH-230	48.44		16.90	3.41E+00	2.13E+00	2.13E+00
		62.85		4.60	1.00E+00		4.88E+00
		67.67		0.37	7.55E+02		8.45E+01
+	PA-231	283.67		1.60	2.89E+00	8.96E+00	8.96E+00
		302.67	*	2.30	9.84E+00		1.54E+01
+	TH-231	25.64		14.70	4.25E+00	3.00E+00	1.22E+01
		84.21	*	6.40	1.11E+01		3.00E+00
+	PA-233	311.98		38.60	5.09E-02	4.01E-01	4.01E-01
+	PA-234	131.20		20.40	-2.10E-01	6.59E-01	6.59E-01
		733.99		8.80	3.11E-01		1.73E+00
		946.00		12.00	-2.01E-01		1.38E+00
+	PA-234M	1001.03		0.92	2.42E+00	1.78E+01	1.78E+01
+	TH-234	63.29		3.80	1.61E+00	5.97E+00	5.97E+00
+	U-235	143.76		10.50	5.07E+00	1.70E+00	1.70E+00
		163.35		4.70	-2.08E+00		3.04E+00
		205.31		4.70	1.31E-01		3.02E+00
+	NP-237	86.50		12.60	-5.30E+00	1.79E+00	1.79E+00
+	NP-239	106.10		22.70	-1.22E-01	3.06E+00	3.06E+00

Analysis Report for 1506043-04

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	NP-239	228.18	10.70	2.12E+00	3.06E+00	7.09E+00
		277.60	14.10	-9.06E-01		4.96E+00
+	AM-241	59.54	35.90	-5.04E-01	5.91E-01	5.91E-01
+	AM-243	74.67	66.00	-1.23E+00	4.24E-01	4.24E-01
+	CM-243	209.75	3.29	3.17E+00	9.39E-01	4.48E+00
		228.14	10.60	4.03E-01		1.34E+00
		277.60	14.00	-1.72E-01		9.39E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.59E+00	1.59E+00	7.16E-01	7.67E-01
	NA-22	1274.54		99.94	1.79E-01	1.79E-01	9.14E-02	8.38E-02
	NA-24	1368.53		99.99	8.92E+01	3.04E+01	-1.94E+01	4.14E+01
		2754.09		99.86	3.04E+01		-3.28E+00	1.08E+01
	AL-26	1808.65		99.76	1.09E-01	1.09E-01	-2.63E-03	4.74E-02
+	K-40	1460.81	*	10.67	2.87E+00	2.87E+00	4.52E+00	1.38E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	3.31E-01	3.00E-01	2.96E+00	1.64E-01
		78.34		96.00	3.00E-01		-2.81E-01	1.49E-01
	SC-46	889.25		99.98	1.79E-01	1.79E-01	-1.24E-02	8.51E-02
		1120.51		99.99	5.37E-01		2.96E+00	2.63E-01
	V-48	983.52		99.98	2.10E-01	2.10E-01	3.67E-02	9.92E-02
		1312.10		97.50	2.12E-01		-8.13E-02	9.84E-02
	CR-51	320.08		9.83	1.54E+00	1.54E+00	2.32E-01	7.47E-01
	MN-54	834.83		99.97	2.06E-01	2.06E-01	-9.38E-02	9.89E-02
	CO-56	846.75		99.96	1.60E-01	1.60E-01	1.31E-03	7.60E-02

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CO-56	1037.75		14.03	1.21E+00	1.60E-01	-3.86E-01	5.67E-01
		1238.25		67.00	5.63E-01		1.72E+00	2.73E-01
		1771.40		15.51	8.27E-01		-2.81E-01	3.66E-01
		2598.48		16.90	3.46E-01		-9.32E-02	1.23E-01
+	CO-57	122.06	*	85.51	2.13E-01	2.13E-01	1.24E-01	1.05E-01
		136.48		10.60	1.29E+00		-6.43E-01	6.32E-01
	CO-58	810.76		99.40	1.53E-01	1.53E-01	-6.17E-03	7.24E-02
	FE-59	1099.22		56.50	2.97E-01	2.97E-01	-7.76E-02	1.39E-01
		1291.56		43.20	3.90E-01		4.98E-02	1.81E-01
	CO-60	1173.22		100.00	1.57E-01	1.57E-01	-8.99E-02	7.31E-02
		1332.49		100.00	1.77E-01		4.47E-02	8.29E-02
	ZN-65	1115.52		50.75	5.26E-01	5.26E-01	4.86E-02	2.53E-01
	GA-67	93.31		35.70	1.72E+00	1.72E+00	4.02E+00	8.48E-01
		208.95		2.24	2.19E+01		3.44E+00	1.07E+01
		300.22		16.00	3.53E+00		-4.92E+01	1.73E+00
	SE-75	121.11		16.70	8.31E-01	2.33E-01	4.87E-02	4.09E-01
		136.00		59.20	2.36E-01		2.30E-02	1.16E-01
		264.65		59.80	2.33E-01		8.38E-02	1.13E-01
		279.53		25.20	5.31E-01		-4.22E-02	2.58E-01
		400.65		11.40	1.66E+00		1.90E+00	8.11E-01
	RB-82	776.52		13.00	1.39E+00	1.39E+00	2.08E-02	6.59E-01
	RB-83	520.41		46.00	3.51E-01	3.51E-01	3.33E-01	1.69E-01
		529.64		30.30	5.04E-01		3.84E-02	2.42E-01
		552.65		16.40	8.23E-01		9.88E-02	3.93E-01
	KR-85	513.99		0.43	3.93E+01	3.93E+01	5.45E+00	1.90E+01
	SR-85	513.99		99.27	1.82E-01	1.82E-01	2.53E-02	8.82E-02
	Y-88	898.02		93.40	2.05E-01	1.49E-01	9.85E-02	9.79E-02
		1836.01		99.38	1.49E-01		1.02E-01	6.68E-02
	NB-93M	16.57		9.43	2.44E+02	2.44E+02	-1.78E+01	1.18E+02
	NB-94	702.63		100.00	1.69E-01	1.69E-01	1.81E-01	8.10E-02
		871.10		100.00	1.71E-01		1.67E-02	8.14E-02
	NB-95	765.79		99.81	3.17E-01	3.17E-01	9.33E-01	1.54E-01
	NB-95M	235.69	*	25.00	3.96E+00	3.96E+00	9.05E+00	1.96E+00
	ZR-95	724.18		43.70	3.67E-01	2.95E-01	-1.31E-01	1.75E-01
		756.72		55.30	2.95E-01		-2.42E-02	1.41E-01
	MO-99	181.06		6.20	9.80E+00	5.17E+00	1.42E+00	4.81E+00
		739.58		12.80	5.17E+00		5.44E-01	2.47E+00
		778.00		4.50	1.42E+01		3.06E+00	6.76E+00
	RU-103	497.08		89.00	1.69E-01	1.69E-01	2.42E-02	8.10E-02
	RU-106	621.84		9.80	1.48E+00	1.48E+00	-2.02E-01	7.05E-01
	AG-108M	433.93		89.90	1.64E-01	1.64E-01	-5.49E-02	7.94E-02
		614.37		90.40	1.71E-01		-1.31E-02	8.18E-02
		722.95		90.50	1.75E-01		6.77E-02	8.33E-02
+	CD-109	88.03	*	3.72	6.04E+00	6.04E+00	1.77E+01	2.99E+00
	AG-110M	657.75		93.14	1.62E-01	1.62E-01	2.32E-02	7.76E-02
		677.61		10.53	1.36E+00		-4.96E-01	6.46E-01
		706.67		16.46	9.48E-01		2.67E-02	4.53E-01
		763.93		21.98	8.45E-01		3.42E-02	4.05E-01
		884.67		71.63	2.48E-01		-5.51E-04	1.18E-01
		1384.27		23.94	9.20E-01		2.33E-01	4.35E-01
	CD-113M	263.70		0.02	5.80E+02	5.80E+02	-4.76E+01	2.83E+02
	SN-113	255.12		1.93	9.67E+00	2.14E-01	2.16E+01	4.75E+00
		391.69		64.90	2.14E-01		2.74E-02	1.04E-01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TE123M	159.00		84.10	1.88E-01	1.88E-01	7.31E-02	9.25E-02
	SB-124	602.71		97.87	1.61E-01	1.61E-01	-2.07E-03	7.73E-02
		645.85		7.26	2.20E+00		1.52E-01	1.05E+00
		722.78		11.10	1.52E+00		5.89E-01	7.25E-01
		1691.02		49.00	3.32E-01		5.73E-02	1.51E-01
	I-125	35.49		6.49	6.75E+00	6.75E+00	3.93E+00	3.32E+00
	SB-125	176.33		6.89	2.07E+00	5.93E-01	8.94E-01	1.02E+00
		427.89		29.33	5.93E-01		2.98E-01	2.88E-01
		463.38		10.35	1.47E+00		8.38E-01	7.13E-01
		600.56		17.80	8.61E-01		2.24E-01	4.13E-01
		635.90		11.32	1.25E+00		-3.70E-01	5.95E-01
	SB-126	414.70		83.30	2.63E-01	1.97E-01	-1.01E-01	1.28E-01
		666.33		99.60	2.48E-01		2.98E-01	1.19E-01
		695.00		99.60	1.97E-01		-2.46E-02	9.39E-02
		720.50		53.80	4.02E-01		1.34E-01	1.92E-01
+	SN-126	87.57	*	37.00	6.02E-01	6.02E-01	1.76E+00	2.98E-01
	SB-127	473.00		25.00	1.67E+00	1.18E+00	2.42E-01	8.07E-01
		685.20		35.70	1.18E+00		3.96E-01	5.61E-01
		783.80		14.70	3.54E+00		2.87E+00	1.70E+00
	I-129	29.78		57.00	1.51E+00	1.51E+00	-1.59E+00	7.41E-01
		33.60		13.20	4.03E+00		-1.84E+00	1.98E+00
		39.58		7.52	4.32E+00		-2.70E+00	2.13E+00
	I-131	284.30		6.05	4.02E+00	2.57E-01	4.44E+00	1.96E+00
		364.48		81.20	2.57E-01		3.31E-02	1.24E-01
		636.97		7.26	3.11E+00		-1.97E+00	1.48E+00
		722.89		1.80	1.43E+01		5.56E+00	6.84E+00
	TE-132	49.72		13.10	6.98E+00	5.42E-01	1.02E+01	3.45E+00
		228.16		88.00	5.42E-01		1.63E-01	2.65E-01
	BA-133	81.00		33.00	6.94E-01	2.62E-01	2.10E+00	3.44E-01
		302.84		17.80	9.54E-01		1.16E+00	4.67E-01
		356.01		60.00	2.62E-01		-1.44E-03	1.28E-01
	I-133	529.87		86.30	1.59E+01	1.59E+01	1.21E+00	7.64E+00
	CS-134	563.23		8.38	1.72E+00	1.79E-01	6.36E-01	8.27E-01
		569.32		15.43	9.49E-01		-1.23E-01	4.55E-01
		604.70		97.60	2.44E-01		-7.17E+00	1.19E-01
		795.84		85.40	1.79E-01		-5.16E-02	8.50E-02
		801.93		8.73	1.99E+00		1.67E-01	9.49E-01
	CS-135	268.24		16.00	1.41E+00	1.41E+00	4.72E+00	6.92E-01
	I-135	1131.51		22.50	1.27E+06	1.00E+06	5.46E+05	5.96E+05
		1260.41		28.60	1.00E+06		3.13E+05	4.71E+05
		1678.03		9.54	1.91E+06		-4.77E+05	8.40E+05
	CS-136	153.22		7.46	3.11E+00	2.17E-01	7.54E+00	1.53E+00
		163.89		4.61	4.19E+00		-2.87E+00	2.06E+00
		176.55		13.56	1.42E+00		6.11E-01	6.95E-01
		273.65		12.66	1.84E+00		-2.58E+00	9.02E-01
		340.57		48.50	4.17E-01		2.06E-01	2.03E-01
		818.50		99.70	2.17E-01		5.14E-02	1.03E-01
		1048.07		79.60	2.69E-01		-5.23E-02	1.26E-01
		1235.34		19.70	2.22E+00		7.99E-02	1.07E+00
	CS-137	661.65		85.12	2.00E-01	2.00E-01	-6.22E-03	9.59E-02
	LA-138	788.74		34.00	5.29E-01	2.48E-01	3.07E-01	2.53E-01
		1435.80		66.00	2.48E-01		2.99E-02	1.15E-01
	CE-139	165.85		80.35	1.86E-01	1.86E-01	1.52E-01	9.15E-02

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-140	162.64		6.70	2.95E+00	8.04E-01	5.58E-01	1.45E+00
		304.84		4.50	4.63E+00		3.18E+00	2.26E+00
		423.70		3.20	7.26E+00		-2.09E+00	3.53E+00
		437.55		2.00	9.76E+00		-3.59E+00	4.71E+00
		537.32		25.00	8.04E-01		1.66E-01	3.87E-01
	LA-140	328.77		20.50	1.07E+00	2.77E-01	8.98E-01	5.21E-01
		487.03		45.50	4.44E-01		2.07E-01	2.14E-01
		815.85		23.50	8.91E-01		3.81E-02	4.23E-01
		1596.49		95.49	2.77E-01		4.03E-02	1.29E-01
	CE-141	145.44		48.40	4.18E-01	4.18E-01	1.22E+00	2.06E-01
	CE-143	57.36		11.80	3.14E+01	1.50E+01	-1.62E+01	1.55E+01
		293.26		42.00	1.50E+01		1.48E+02	7.45E+00
		664.55		5.20	6.12E+01		6.52E+01	2.95E+01
	CE-144	133.54		10.80	1.27E+00	1.27E+00	-1.55E-02	6.22E-01
	PM-144	476.78		42.00	3.59E-01	1.43E-01	-1.04E-01	1.73E-01
		618.01		98.60	1.43E-01		-2.27E-02	6.81E-02
		696.49		99.49	1.46E-01		-4.44E-02	6.93E-02
	PM-145	36.85		21.70	1.72E+00	9.28E-01	-3.25E-01	8.43E-01
		37.36		39.70	9.28E-01		-7.20E-01	4.56E-01
		42.30		15.10	2.01E+00		1.00E-01	9.89E-01
		72.40		2.31	1.00E+01		-2.01E+01	4.95E+00
+	PM-146	453.90	*	39.94	4.84E-01	4.84E-01	3.55E-01	2.36E-01
		735.90		14.01	1.09E+00		7.72E-02	5.21E-01
		747.13		13.10	1.12E+00		-2.99E-01	5.34E-01
	ND-147	91.11		28.90	9.17E-01	9.17E-01	-3.03E+00	4.53E-01
		531.02		13.10	1.60E+00		3.20E-01	7.69E-01
+	PM-149	285.90	*	3.10	4.22E+01	4.22E+01	3.11E+01	2.07E+01
	EU-152	121.78		20.50	6.66E-01	6.66E-01	4.55E-01	3.28E-01
		244.69		5.40	3.51E+00		4.61E+00	1.73E+00
		344.27		19.13	6.99E-01		-6.80E-03	3.39E-01
		778.89		9.20	1.63E+00		-1.51E-02	7.75E-01
		964.01		10.40	1.77E+00		6.16E-01	8.40E-01
		1085.78		7.22	2.26E+00		2.58E-01	1.06E+00
		1112.02		9.60	1.85E+00		4.28E-01	8.72E-01
		1407.95		14.94	1.68E+00		2.62E+00	8.01E-01
+	GD-153	97.43	*	31.30	7.80E-01	5.97E-01	2.87E-01	3.86E-01
		103.18		22.20	5.97E-01		8.51E-02	2.94E-01
	EU-154	123.07		40.50	3.42E-01	3.42E-01	3.28E-01	1.68E-01
		723.30		19.70	8.03E-01		3.12E-01	3.83E-01
		873.19		11.50	1.55E+00		1.18E+00	7.40E-01
		996.32		10.30	1.59E+00		4.12E-02	7.49E-01
		1004.76		17.90	9.06E-01		-3.37E-01	4.27E-01
		1274.45		35.50	5.02E-01		2.57E-01	2.35E-01
	EU-155	86.50		30.90	7.33E-01	6.31E-01	-2.17E+00	3.63E-01
		105.30		20.70	6.31E-01		-2.51E-02	3.10E-01
	EU-156	811.77		10.40	1.83E+00	1.83E+00	6.36E-02	8.66E-01
		1153.47		7.20	4.21E+00		6.29E+00	2.01E+00
		1230.71		8.90	2.54E+00		3.52E-01	1.19E+00
	HO-166M	184.41		72.60	3.06E-01	2.64E-01	1.57E+00	1.51E-01
		280.45		29.60	4.36E-01		-8.33E-02	2.12E-01
		410.94		11.10	1.39E+00		-2.30E-02	6.72E-01
		711.69		54.10	2.64E-01		1.16E-03	1.26E-01
	TM-171	66.72		0.14	2.28E+02	2.28E+02	1.98E+03	1.13E+02

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HF-172	81.75		4.52	5.63E+00	1.20E+00	1.54E+01	2.79E+00
		125.81		11.30	1.20E+00		-1.54E-01	5.87E-01
	LU-172	181.53		20.60	1.28E+00	4.35E-01	6.12E-02	6.29E-01
		810.06		16.63	1.67E+00		-3.92E-01	7.92E-01
		912.12		15.25	2.45E+00		2.98E+00	1.18E+00
		1093.66		62.50	4.35E-01		-1.26E-01	2.03E-01
	LU-173	100.72		5.24	2.65E+00	1.12E+00	-4.77E-01	1.30E+00
		272.11		21.20	1.12E+00		5.21E+00	5.51E-01
	HF-175	343.40		84.00	1.72E-01	1.72E-01	-1.63E-03	8.33E-02
	LU-176	88.34		13.30	1.60E+00	1.43E-01	7.52E+00	7.90E-01
		201.83		86.00	1.65E-01		-7.88E-02	8.11E-02
		306.78		94.00	1.43E-01		-1.12E-01	6.95E-02
+	TA-182	67.75	*	41.20	1.98E+00	6.78E-01	6.67E+00	9.87E-01
		1121.30	*	34.90	6.95E-01		8.49E+00	3.33E-01
		1189.05		16.23	1.05E+00		-2.63E-01	4.91E-01
		1221.41		26.98	6.78E-01		-1.21E-01	3.18E-01
		1231.02		11.44	1.58E+00		2.19E-01	7.40E-01
	IR-192	308.46		29.68	4.58E-01	3.17E-01	-6.55E-02	2.22E-01
		468.07		48.10	3.17E-01		7.63E-02	1.53E-01
	HG-203	279.19		77.30	1.87E-01	1.87E-01	-3.67E-02	9.09E-02
	BI-207	569.67		97.72	1.52E-01	1.52E-01	1.13E-02	7.31E-02
		1063.62		74.90	2.12E-01		-7.55E-03	9.94E-02
+	TL-208	583.14	*	30.22	7.85E-01	1.76E-01	5.68E-01	3.82E-01
		860.37		4.48	3.45E+00		-1.15E+00	1.63E+00
		2614.66	*	35.85	1.76E-01		2.32E-01	6.56E-02
	BI-210M	262.00		45.00	3.11E-01	3.11E-01	-5.62E-02	1.52E-01
		300.00		23.00	7.34E-01		-1.02E+01	3.59E-01
+	PB-210	46.50	*	4.25	8.31E+00	8.31E+00	6.05E+01	4.11E+00
+	PB-211	404.84	*	2.90	1.04E+01	8.58E+00	8.01E+00	5.12E+00
		831.96	*	2.90	8.58E+00		6.40E+00	4.15E+00
	BI-212	727.17		11.80	1.23E+00	1.23E+00	-1.92E-01	5.86E-01
		1620.62		2.75	5.03E+00		-8.81E-01	2.28E+00
+	PB-212	238.63	*	44.60	7.59E-01	7.59E-01	4.38E-01	3.76E-01
		300.09	*	3.41	1.03E+01		1.14E+01	5.10E+00
+	BI-214	609.31	*	46.30	5.63E-01	5.63E-01	1.81E+01	2.75E-01
		1120.29	*	15.10	1.55E+00		1.90E+01	7.43E-01
		1764.49	*	15.80	1.06E+00		2.13E+01	4.86E-01
		2204.22	*	4.98	1.82E+00		2.02E+01	7.55E-01
+	PB-214	295.21	*	19.19	1.81E+00	6.67E-01	2.13E+01	8.95E-01
		351.92	*	37.19	6.67E-01		2.30E+01	3.28E-01
+	RN-219	401.80	*	6.50	4.62E+00	4.62E+00	6.36E+00	2.27E+00
+	RA-223	323.87	*	3.88	8.69E+00	8.69E+00	5.07E+00	4.29E+00
	RA-224	240.98		3.95	6.38E+00	6.38E+00	3.27E+01	3.15E+00
	RA-225	40.00		31.00	1.33E+00	1.33E+00	-8.33E-01	6.55E-01
+	RA-226	186.21	*	3.28	7.40E+00	7.40E+00	4.11E+01	3.66E+00
+	TH-227	50.10		8.40	3.21E+00	2.89E+00	4.71E+00	1.59E+00
		236.00	*	11.50	2.89E+00		6.61E+00	1.43E+00
		256.20	*	6.30	4.16E+00		1.22E+01	2.05E+00
+	AC-228	338.32	*	11.40	1.69E+00	9.04E-01	9.57E-01	8.26E-01
		911.07	*	27.70	9.04E-01		9.55E-01	4.36E-01
		969.11		16.60	1.05E+00		-3.81E-01	4.98E-01
	TH-230	48.44		16.90	2.13E+00	2.13E+00	3.41E+00	1.05E+00
		62.85		4.60	4.88E+00		1.00E+00	2.41E+00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-230	67.67		0.37	8.45E+01	2.13E+00	7.55E+02	4.19E+01
+	PA-231	283.67		1.60	8.96E+00	8.96E+00	2.89E+00	4.37E+00
		302.67	*	2.30	1.54E+01		9.84E+00	7.62E+00
+	TH-231	25.64		14.70	1.22E+01	3.00E+00	4.25E+00	6.01E+00
		84.21	*	6.40	3.00E+00		1.11E+01	1.48E+00
	PA-233	311.98		38.60	4.01E-01	4.01E-01	5.09E-02	1.95E-01
	PA-234	131.20		20.40	6.59E-01	6.59E-01	-2.10E-01	3.24E-01
		733.99		8.80	1.73E+00		3.11E-01	8.23E-01
		946.00		12.00	1.38E+00		-2.01E-01	6.51E-01
	PA-234M	1001.03		0.92	1.78E+01	1.78E+01	2.42E+00	8.41E+00
	TH-234	63.29		3.80	5.97E+00	5.97E+00	1.61E+00	2.95E+00
	U-235	143.76		10.50	1.70E+00	1.70E+00	5.07E+00	8.41E-01
		163.35		4.70	3.04E+00		-2.08E+00	1.49E+00
		205.31		4.70	3.02E+00		1.31E-01	1.48E+00
	NP-237	86.50		12.60	1.79E+00	1.79E+00	-5.30E+00	8.89E-01
	NP-239	106.10		22.70	3.06E+00	3.06E+00	-1.22E-01	1.50E+00
		228.18		10.70	7.09E+00		2.12E+00	3.47E+00
		277.60		14.10	4.96E+00		-9.06E-01	2.41E+00
	AM-241	59.54		35.90	5.91E-01	5.91E-01	-5.04E-01	2.92E-01
	AM-243	74.67		66.00	4.24E-01	4.24E-01	-1.23E+00	2.10E-01
	CM-243	209.75		3.29	4.48E+00	9.39E-01	3.17E+00	2.19E+00
		228.14		10.60	1.34E+00		4.03E-01	6.57E-01
		277.60		14.00	9.39E-01		-1.72E-01	4.57E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506043-04

FEEBRISID-09-088-089

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-09-088-089

Elapsed Live time: 3600
Elapsed Real Time: 3604

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	292	298	275	405	367	329
25:	190	199	256	338	212	182	197	352
33:	316	178	194	215	266	222	217	264
41:	309	253	280	323	356	565	1687	676
49:	275	458	591	304	368	457	382	385
57:	383	414	401	430	454	485	540	644
65:	580	539	797	2613	1432	477	494	468
73:	524	584	1356	1124	1579	1997	624	676
81:	811	1016	503	1458	991	464	661	909
89:	598	543	496	350	449	490	670	429
97:	274	372	316	276	263	207	263	244
105:	236	230	210	250	217	223	233	225
113:	236	244	228	210	228	201	218	192
121:	217	229	305	253	216	226	224	212
129:	229	218	221	211	235	213	230	202
137:	217	217	198	238	242	225	264	519
145:	571	241	246	232	237	269	208	253
153:	239	341	487	260	238	234	273	213
161:	243	216	189	211	198	201	211	216
169:	178	187	183	195	181	152	184	175
177:	206	175	187	187	188	183	191	204
185:	227	687	868	245	183	154	169	177
193:	196	170	166	175	167	165	183	167
201:	169	151	161	142	163	163	152	149
209:	163	167	176	153	136	117	131	144
217:	138	132	121	150	154	130	123	131
225:	136	133	121	155	124	145	123	126
233:	130	142	164	475	325	158	236	175
241:	199	766	640	137	106	110	115	96
249:	108	84	107	110	119	157	161	214
257:	297	125	154	136	112	87	101	109
265:	107	84	95	108	271	523	390	342
273:	129	105	126	88	101	96	89	68
281:	93	79	91	124	94	124	121	93
289:	79	68	95	73	100	206	1275	1541
297:	289	83	94	208	173	105	149	114
305:	120	70	78	66	69	87	66	71
313:	92	74	85	77	56	63	88	66
321:	73	71	98	134	133	70	70	75
329:	92	152	138	72	75	72	86	61
337:	70	116	126	70	82	80	76	65
345:	71	61	64	59	80	121	817	3099
353:	1628	175	91	77	61	45	45	45
361:	50	52	52	65	54	57	54	51

369:	62	41	54	54	63	51	46	51

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Channel								
377:	49	53	60	63	40	67	50	46
385:	61	60	73	61	74	83	55	50
393:	49	45	43	52	54	56	59	63
401:	85	187	124	76	129	85	84	54
409:	47	47	44	54	63	38	57	53
417:	49	54	70	63	47	46	56	61
425:	44	59	97	74	48	50	45	49
433:	48	45	36	45	25	51	39	40
441:	37	48	40	61	68	58	36	46
449:	31	32	45	40	39	42	61	47
457:	32	32	35	30	42	48	43	51
465:	36	38	24	34	35	42	41	32
473:	38	39	34	41	35	41	34	35
481:	55	33	28	27	25	41	52	44
489:	25	35	28	33	19	29	28	31
497:	28	37	22	25	28	28	33	35
505:	40	37	26	30	36	63	67	69
513:	43	34	39	28	24	47	29	43
521:	23	34	31	36	24	23	30	29
529:	25	26	24	42	34	31	37	22
537:	30	40	28	33	21	21	29	38
545:	32	28	21	19	27	36	8	23
553:	15	24	23	23	24	14	24	20
561:	25	40	25	18	30	27	25	27
569:	24	29	26	29	35	27	25	29
577:	21	25	33	28	33	37	52	42
585:	29	25	19	26	30	30	38	40
593:	15	29	23	23	29	32	31	31
601:	23	24	24	24	24	26	41	300
609:	1647	1498	217	54	27	20	24	23
617:	19	19	17	27	20	23	21	27
625:	21	27	27	28	14	21	17	34
633:	20	22	21	20	20	23	19	15
641:	28	20	16	27	17	27	18	27
649:	29	20	22	17	19	11	24	21
657:	27	15	19	25	24	26	17	30
665:	61	54	22	20	20	19	13	27
673:	21	20	22	16	15	16	24	22
681:	16	20	25	21	19	19	25	20
689:	15	21	14	22	20	16	18	19
697:	19	16	18	24	17	30	29	27
705:	31	23	19	11	16	20	16	20
713:	17	15	21	18	22	12	23	29
721:	26	24	17	19	12	23	15	22
729:	18	16	17	19	17	18	21	23
737:	20	21	16	21	18	17	32	16
745:	20	27	8	19	16	16	18	14
753:	20	15	19	18	13	16	24	26
761:	21	22	11	26	22	32	52	167
769:	147	28	20	25	17	17	23	19
777:	18	17	21	12	14	18	13	22
785:	34	54	32	25	19	17	9	14
793:	10	21	21	15	15	20	16	26

801:	24	24	20	12	30	60	37	11

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Channel								
809:	16	15	15	9	15	21	15	16
817:	12	17	20	19	20	22	15	14
825:	17	14	21	15	20	22	38	62
833:	34	26	13	17	23	25	36	33
841:	22	18	17	13	16	18	19	12
849:	10	19	20	12	13	21	18	21
857:	17	10	16	16	22	14	12	24
865:	26	18	10	18	13	20	17	18
873:	23	21	22	20	9	16	22	17
881:	19	19	19	27	17	12	15	23
889:	21	18	22	14	15	16	22	25
897:	15	31	15	18	19	19	16	18
905:	23	22	19	23	23	25	32	36
913:	23	19	23	9	11	11	14	19
921:	18	22	15	15	12	12	11	23
929:	15	17	17	18	43	103	60	19
937:	21	23	12	10	12	13	16	20
945:	17	10	9	18	15	16	21	13
953:	16	13	15	17	13	18	13	14
961:	15	20	9	22	23	17	21	13
969:	21	15	17	9	17	16	14	19
977:	22	9	13	10	17	9	15	17
985:	11	12	16	9	18	10	16	4
993:	14	17	13	14	11	10	15	14
1001:	17	16	14	8	10	15	13	15
1009:	16	15	11	10	17	15	19	13
1017:	12	16	9	17	13	12	12	17
1025:	7	18	6	11	10	7	11	4
1033:	14	21	10	16	13	16	13	3
1041:	14	15	9	9	10	8	12	9
1049:	11	10	21	21	12	11	15	17
1057:	12	14	9	11	11	10	17	17
1065:	6	8	10	16	9	24	6	13
1073:	19	10	6	11	13	13	11	9
1081:	10	10	8	13	12	14	13	9
1089:	12	12	11	11	10	8	9	8
1097:	11	16	6	4	9	16	17	11
1105:	8	14	11	13	14	15	13	10
1113:	11	17	13	9	14	24	123	348
1121:	241	55	22	12	8	8	7	11
1129:	9	11	12	15	14	17	14	10
1137:	14	9	9	10	15	9	15	13
1145:	9	9	12	6	11	14	14	13
1153:	17	22	42	35	5	16	9	7
1161:	8	14	13	9	3	6	12	16
1169:	11	13	7	11	11	8	7	8
1177:	12	12	10	9	13	4	8	17
1185:	15	10	10	4	7	13	16	11
1193:	14	9	10	4	13	12	7	7
1201:	13	12	10	9	13	12	19	20
1209:	13	8	12	14	8	18	12	9
1217:	11	13	15	7	11	15	10	8
1225:	16	12	8	11	16	5	12	9

1233:	13	10	10	15	76	144	61	21

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Channel								
1241:	14	11	7	9	10	13	7	12
1249:	13	6	9	18	17	14	12	7
1257:	12	14	7	10	7	11	15	8
1265:	9	8	9	12	7	6	12	12
1273:	12	11	12	7	9	5	5	34
1281:	43	18	11	14	18	5	3	5
1289:	10	14	7	7	5	6	12	6
1297:	6	8	9	17	10	10	10	6
1305:	9	5	10	7	8	11	11	10
1313:	8	3	7	14	9	8	2	10
1321:	10	7	8	3	7	8	8	10
1329:	13	8	12	15	8	9	4	7
1337:	9	13	11	12	7	10	9	6
1345:	9	8	7	8	8	9	10	8
1353:	7	8	8	3	15	3	14	8
1361:	4	4	13	11	5	5	10	7
1369:	10	10	9	5	8	12	8	26
1377:	94	86	17	10	9	11	5	13
1385:	33	15	14	12	11	9	3	5
1393:	6	9	11	14	10	8	9	16
1401:	26	18	8	8	5	16	41	42
1409:	14	11	4	6	5	7	7	10
1417:	4	10	5	8	6	11	8	7
1425:	6	7	7	6	9	6	8	2
1433:	8	7	10	9	6	5	7	7
1441:	9	8	4	6	10	6	9	9
1449:	4	7	7	7	7	10	6	11
1457:	9	10	24	57	43	22	15	5
1465:	10	10	10	7	16	5	5	7
1473:	12	2	4	9	7	12	11	7
1481:	3	3	5	9	6	6	9	8
1489:	14	9	5	6	8	14	5	11
1497:	10	9	11	10	5	7	11	14
1505:	11	8	8	30	45	37	10	9
1513:	5	8	7	9	12	4	14	9
1521:	9	8	7	7	11	11	5	10
1529:	6	2	8	6	6	6	9	7
1537:	6	9	18	10	10	8	14	16
1545:	10	6	10	8	8	6	3	5
1553:	3	8	6	4	8	9	8	9
1561:	11	4	3	5	0	5	3	4
1569:	6	10	4	10	2	5	4	5
1577:	3	7	6	7	7	11	19	12
1585:	5	5	4	18	7	8	4	6
1593:	8	18	7	7	7	7	10	6
1601:	4	7	7	6	6	5	5	6
1609:	6	4	5	6	10	4	4	7
1617:	3	1	3	7	9	3	4	6
1625:	3	1	7	1	5	7	5	2
1633:	7	6	1	4	8	5	2	3
1641:	4	2	5	9	4	5	5	6
1649:	6	5	5	2	3	5	2	4
1657:	7	5	2	17	12	10	7	2

1665:	4	7	1	3	4	3	4	1

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Channel								
1673:	6	5	3	1	2	3	4	1
1681:	4	0	3	5	4	6	3	3
1689:	2	4	7	6	8	5	5	3
1697:	1	4	4	4	4	3	2	5
1705:	2	4	3	0	1	4	4	0
1713:	2	3	3	4	2	1	4	1
1721:	2	6	4	0	4	5	13	32
1729:	62	36	7	4	2	2	1	3
1737:	1	3	3	1	4	2	3	0
1745:	0	3	2	4	2	4	3	4
1753:	2	5	1	6	0	2	3	3
1761:	6	33	147	258	167	33	2	6
1769:	1	5	5	0	3	0	9	2
1777:	2	2	2	0	5	1	6	1
1785:	2	2	1	1	3	1	3	0
1793:	1	1	3	1	2	4	4	3
1801:	0	4	0	2	1	2	2	2
1809:	2	2	4	4	3	1	2	2
1817:	0	3	2	1	1	0	0	4
1825:	1	2	2	3	1	0	1	1
1833:	1	2	3	2	6	8	5	3
1841:	0	3	1	5	3	27	38	19
1849:	5	2	2	6	3	4	3	1
1857:	2	3	0	7	2	4	0	3
1865:	3	2	0	4	2	2	3	2
1873:	9	3	2	3	1	3	2	3
1881:	1	2	5	0	4	3	2	5
1889:	4	5	0	3	3	3	2	2
1897:	3	3	6	1	3	2	2	1
1905:	2	3	3	1	0	1	0	2
1913:	2	1	1	0	3	1	2	4
1921:	1	2	4	1	0	2	3	1
1929:	0	3	1	6	1	0	2	6
1937:	3	4	2	3	1	4	4	4
1945:	2	4	0	2	1	0	3	3
1953:	6	4	3	1	2	2	1	1
1961:	3	3	2	5	0	2	0	0
1969:	4	3	3	3	3	1	1	2
1977:	4	1	1	4	0	0	2	1
1985:	2	3	1	2	4	1	1	3
1993:	4	0	1	2	4	1	2	2
2001:	0	1	5	4	4	1	3	1
2009:	5	4	5	0	0	1	3	4
2017:	3	5	2	1	1	2	2	6
2025:	1	5	0	2	1	1	1	2
2033:	2	2	3	1	0	1	2	2
2041:	2	2	1	3	0	1	1	1
2049:	1	1	1	1	5	2	0	2
2057:	0	1	2	0	1	1	0	2
2065:	0	1	0	2	3	4	1	0
2073:	3	2	0	1	0	0	1	0
2081:	4	2	0	2	0	0	0	2
2089:	2	0	2	2	2	0	2	2

2097:	1	2	3	2	3	0	0	0

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Channel								
2105:	1	0	1	0	3	1	2	2
2113:	1	0	2	4	12	13	8	1
2121:	1	3	1	1	1	1	2	3
2129:	1	2	3	1	1	2	2	1
2137:	0	2	6	1	1	0	0	0
2145:	0	4	0	1	1	1	0	1
2153:	0	0	0	0	2	0	1	1
2161:	0	1	0	0	2	0	0	1
2169:	3	0	3	2	0	1	1	3
2177:	2	2	0	2	1	1	1	0
2185:	0	0	1	1	1	1	1	0
2193:	0	0	0	0	1	1	1	5
2201:	10	38	58	45	13	3	2	1
2209:	0	1	0	2	0	2	1	1
2217:	0	0	0	1	0	1	0	1
2225:	1	1	0	0	0	3	0	1
2233:	0	2	0	1	2	2	0	1
2241:	0	1	2	0	1	1	2	2
2249:	3	0	0	0	1	0	2	0
2257:	1	0	1	1	2	0	2	2
2265:	1	1	1	0	1	1	0	2
2273:	0	1	2	0	0	0	0	2
2281:	0	1	0	1	0	2	0	0
2289:	0	0	0	5	3	1	1	0
2297:	0	1	0	0	1	2	2	1
2305:	2	1	0	1	0	1	1	0
2313:	1	0	0	1	2	0	1	0
2321:	0	2	0	1	1	0	2	1
2329:	0	0	1	0	1	0	1	0
2337:	0	1	0	0	0	2	0	0
2345:	0	2	0	1	1	0	0	0
2353:	1	2	1	0	0	0	1	0
2361:	0	0	1	0	1	0	1	1
2369:	0	0	0	0	0	1	0	0
2377:	0	0	0	0	0	1	0	0
2385:	0	0	2	1	0	0	0	0
2393:	1	2	0	0	0	0	0	1
2401:	0	0	0	0	1	0	1	2
2409:	1	0	0	0	1	0	0	0
2417:	0	1	2	1	0	0	0	1
2425:	1	1	0	0	0	0	1	0
2433:	0	1	0	0	0	0	0	1
2441:	1	0	2	2	9	13	9	6
2449:	1	0	0	0	0	0	0	1
2457:	0	1	1	0	1	1	0	0
2465:	0	0	1	0	0	0	0	0
2473:	1	0	0	0	0	0	0	1
2481:	0	0	1	1	0	2	0	1
2489:	0	0	0	1	0	0	0	0
2497:	1	0	0	1	0	0	2	1
2505:	0	0	1	0	0	0	0	1
2513:	0	0	0	0	0	0	1	1
2521:	0	0	0	0	1	0	2	0

2529:	1	0	0	1	0	0	0	0

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Channel								
2537:	0	1	1	1	0	0	0	1
2545:	0	1	0	0	2	0	0	0
2553:	0	1	0	0	1	0	1	1
2561:	0	0	0	0	0	0	0	0
2569:	0	0	0	0	0	1	0	0
2577:	0	1	0	0	0	0	0	0
2585:	0	1	0	1	0	0	0	0
2593:	1	0	0	1	0	0	0	0
2601:	1	0	0	1	1	0	0	0
2609:	0	0	1	1	9	5	2	1
2617:	0	0	0	0	0	1	2	0
2625:	1	0	1	0	0	0	0	0
2633:	1	0	0	0	1	0	0	0
2641:	1	0	0	1	0	0	1	0
2649:	0	0	0	0	0	0	0	1
2657:	1	0	0	1	0	0	0	0
2665:	0	1	0	1	0	0	0	0
2673:	0	0	0	0	0	0	0	2
2681:	0	0	0	0	0	0	0	1
2689:	0	0	0	0	1	1	0	0
2697:	0	0	0	0	0	1	0	0
2705:	1	0	0	0	0	0	0	1
2713:	0	0	0	0	0	1	0	1
2721:	0	2	0	0	0	0	0	0
2729:	0	0	0	0	0	0	1	1
2737:	2	0	1	0	0	0	0	0
2745:	0	1	0	0	0	0	0	0
2753:	0	1	0	0	1	0	0	1
2761:	1	0	0	0	0	1	0	0
2769:	0	0	0	0	1	0	0	2
2777:	0	0	0	0	0	0	0	0
2785:	0	1	1	1	0	0	0	1
2793:	0	1	1	0	0	0	1	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	1	0	0	0
2825:	1	2	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	1	0	0	0	1	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	1	0	1	0	1
2865:	1	1	0	0	1	0	0	0
2873:	0	0	1	1	0	0	0	0
2881:	1	0	0	1	0	0	0	0
2889:	0	0	2	0	0	0	0	1
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	1	0	0	0	0
2913:	0	0	0	0	0	0	0	1
2921:	2	0	0	1	0	0	0	1
2929:	0	0	2	2	0	0	0	0
2937:	0	1	0	0	0	0	0	0
2945:	0	0	1	0	0	0	0	0
2953:	0	0	0	0	0	0	0	1

2961:	0	0	0	0	0	0	0	0

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Channel								
2969:	0	0	0	0	0	1	0	1
2977:	0	1	1	0	1	1	0	0
2985:	1	0	0	0	0	0	0	0
2993:	0	0	0	0	1	0	1	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	1	0	0	0	1	0
3017:	0	1	0	1	0	0	1	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	1	1	0	0
3041:	0	1	1	0	2	0	0	0
3049:	1	0	0	0	1	0	1	0
3057:	0	0	0	0	0	0	1	0
3065:	0	0	1	0	0	1	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	1	1	0	0	0	2	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	1	0	0	0	1	0
3113:	0	0	0	0	1	0	0	0
3121:	1	0	0	1	0	0	0	0
3129:	0	0	0	0	0	1	0	0
3137:	0	0	0	0	1	0	1	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	1	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	1	1	0	0	0
3201:	0	1	0	1	0	1	0	0
3209:	0	0	0	0	0	0	0	1
3217:	0	0	0	0	2	0	0	0
3225:	0	0	0	1	0	0	0	1
3233:	0	0	0	0	1	0	0	1
3241:	0	0	1	0	0	1	0	0
3249:	1	0	0	1	1	0	2	0
3257:	0	0	1	0	0	0	0	0
3265:	0	0	0	0	0	0	0	1
3273:	1	1	0	0	0	1	0	0
3281:	0	0	0	0	0	0	0	0
3289:	1	1	0	0	0	0	0	0
3297:	0	0	0	0	0	1	0	1
3305:	0	1	0	0	0	1	1	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	1	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	1	0	0	0
3345:	0	0	0	1	1	0	0	0
3353:	0	1	0	0	0	0	1	0
3361:	2	0	0	0	0	0	1	0
3369:	0	0	0	1	0	0	0	0
3377:	0	2	1	0	0	0	0	1
3385:	0	0	0	1	0	0	0	1

3393:	0	3	0	0	0	1	0	1

Sample Title: FEEBRISID-09-088-089

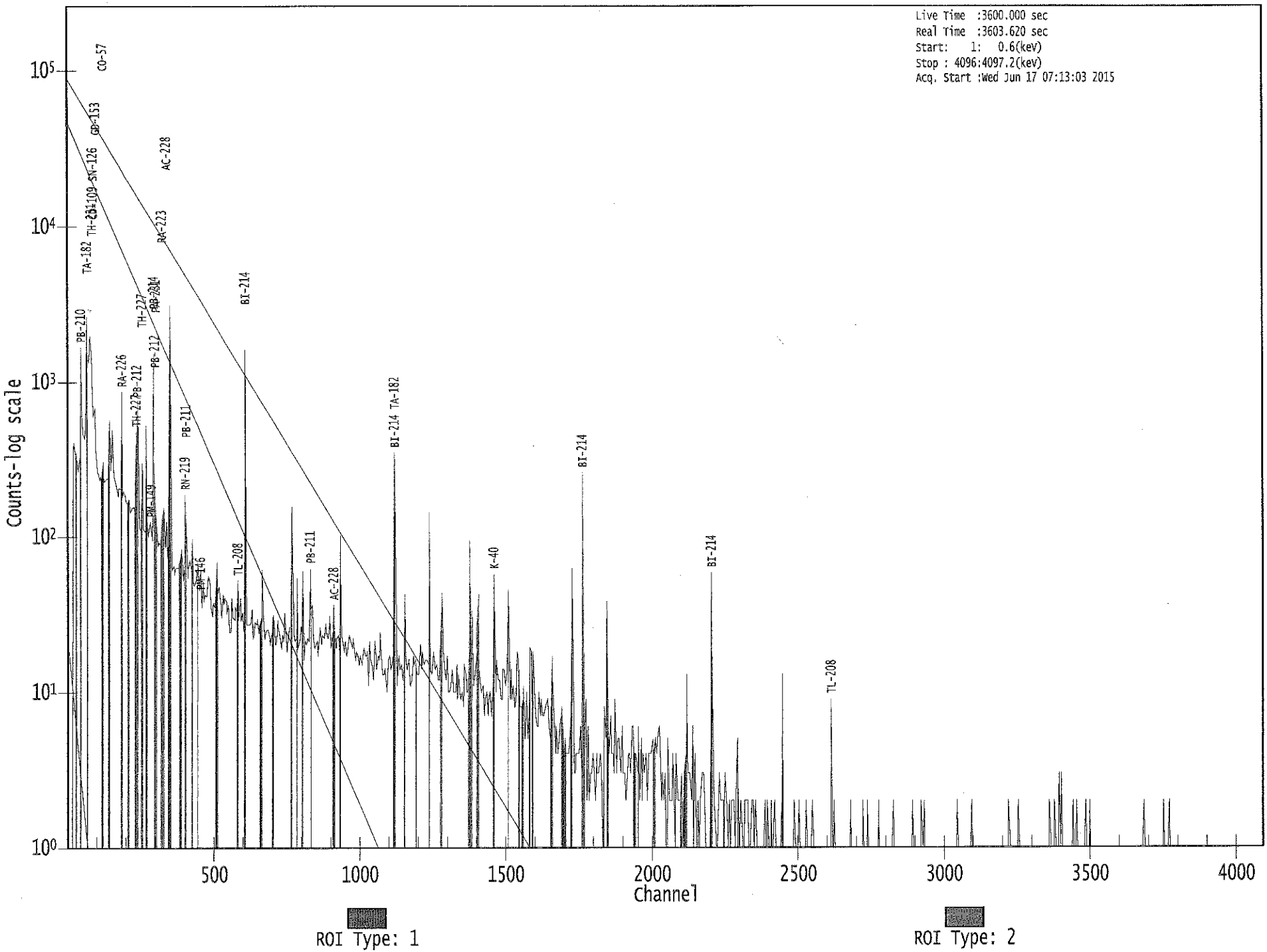
Channel								
3401:	1	3	0	0	0	0	0	0
3409:	0	1	0	0	0	0	0	1
3417:	0	0	0	1	0	0	1	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	1	0	0	0	0	1
3441:	2	2	0	0	1	0	0	0
3449:	0	1	1	0	0	0	2	0
3457:	0	0	0	0	0	0	1	0
3465:	0	0	0	0	1	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	1	0	0	0	2	0	0	1
3489:	0	0	0	0	0	0	0	0
3497:	1	0	2	1	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	1	0
3521:	0	0	0	0	0	1	0	0
3529:	0	0	0	0	0	0	0	1
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	1	0	1
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	1	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	1	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	0	0	0	0	0	1
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	1	0	0	0	0
3641:	1	0	0	0	0	0	0	1
3649:	0	1	0	0	0	0	0	0
3657:	0	1	0	0	0	0	0	0
3665:	1	0	0	0	0	0	0	0
3673:	0	0	0	1	0	1	1	0
3681:	0	0	0	2	0	2	0	0
3689:	0	0	0	0	0	0	0	1
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	1	0	0	0	0
3713:	0	0	0	0	0	0	0	1
3721:	0	0	0	0	0	0	0	0
3729:	1	0	0	0	0	0	0	0
3737:	0	1	0	0	0	0	0	1
3745:	0	0	0	0	0	0	2	0
3753:	0	1	0	0	0	1	0	0
3761:	0	0	0	0	0	1	0	0
3769:	0	0	2	1	1	0	0	0
3777:	0	1	0	0	0	0	0	1
3785:	0	1	0	0	0	1	0	0
3793:	0	0	0	0	0	0	0	0
3801:	1	0	0	0	1	0	1	0
3809:	0	0	1	0	1	1	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	1	0	0	0	0	0

Sample Title: FEEBRISID-09-088-089

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	1	0	1	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	1	0	0	0	0	1	0	0
3881:	1	0	0	1	0	0	0	0
3889:	0	1	0	1	1	0	1	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	1	0	0	0	1
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	1
3945:	0	0	0	0	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	1	0	0	1	0	0	0
3969:	0	0	1	0	0	0	1	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	1	0	0
3993:	0	1	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	1	0	1	0	0	1	1
4017:	0	0	0	0	1	0	0	0
4025:	0	0	1	1	0	0	0	0
4033:	0	0	0	0	1	0	0	0
4041:	0	1	0	0	1	0	0	0
4049:	0	1	0	1	0	0	0	1
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	1	1	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000023541.CNF



****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
6/17/15 6:04:21 AM

6/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 6/17/15 5:49:03 AM
Measurement Date: 6/17/15 5:49:05 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 902.6 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3 [SD: 2.3395E+003+/-1621.4]	3.2440E+003	5.5784E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
6/17/15 6:04:13 AM

6/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 6/17/15 5:48:57 AM
Measurement Date: 6/17/15 5:48:59 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2	4.4156E+000	-6.1736E-001
[SD: 4.5904E+000+/- 0.283]		< : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
6/17/15 6:04:05 AM

6/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 6/17/15 5:48:51 AM
Measurement Date: 6/17/15 5:48:53 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1 [SD: 2.1583E+000+/- 0.380]	2.2667E+000	2.8496E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
6/17/15 5:38:56 AM

6/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 6/17/15 5:22:53 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 950.9 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9699E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6145E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3318E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8351E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.9028E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1271E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2533E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.4232E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.8180E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >

Decay corrected activity 6.7251E+004
Boundary Limits: [4.969E-002, 7.453E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity Boundary Limits: [7.972E-002, 1.120E-001]	1.0427E+005	< : : : >
Decay corrected activity Boundary Limits: [1.713E-001, 2.569E-001]	2.2326E+005	< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
6/17/15 5:38:30 AM

6/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 6/17/15 5:22:42 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 933.4 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6150E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3992E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1678E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1499E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6963E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5412E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >
Decay corrected activity	6.3491E+004	

Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.0411E+005	
Boundary Limits: [7.978E-002, 1.197E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1809E+005	
Boundary Limits: [1.714E-001, 2.571E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
6/17/15 5:38:21 AM

6112

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 6/17/15 5:22:36 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 930.8 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0216E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6179E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8355E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0694E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.6512E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2188E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.5580E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4850E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	6.2156E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Decay corrected activity 1.0664E+004
Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.9836E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

RUN 2

15-06043
Gamma
Run 2

Work Order	15-06043
Analysis Code	Gamma
Run	2
Date Received	6/12/2015
Lab Deadline	6/17/2015
Client	AMO Environmental Decisions
Project	Phase 1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/12/15 00:00	1.0000E+00
02	MBL	BLANK		06/12/15 00:00	1.0000E+00
03	DUP	FEEBRISID-09-088-089	100	06/11/15 08:55	3.3002E+02
04	DO	FEEBRISID-09-088-089	100	06/11/15 08:55	3.3002E+02

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
Gamma
Run 2

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06043
Gamma
Run 2

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	06/15/15 08:52	KSALLINGS						

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Gamma-2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.42E+02	8.28E+00	7.65E-01	1.37E+02	103.46	OK		06/12/15 00:00	1.00E+00	06/30/15 07:47	YES
01	CS-137	LCS	LCS	pCi/g	9.23E+01	8.28E+00	1.05E+00	8.69E+01	106.15	OK		06/12/15 00:00	1.00E+00	06/30/15 07:47	YES
02	AC-228	MBL	BLANK	pCi/g	2.04E-02	7.13E-02	1.18E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	BI-214	MBL	BLANK	pCi/g	4.63E-02	4.99E-02	8.45E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	K-40	MBL	BLANK	pCi/g	1.89E-01	2.33E-01	3.88E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	YES
02	PB-212	MBL	BLANK	pCi/g	7.98E-03	4.10E-02	5.39E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	PB-214	MBL	BLANK	pCi/g	3.94E-02	4.17E-02	6.75E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	RA-226	MBL	BLANK	pCi/g	4.63E-02	4.99E-02	8.45E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	RA-228	MBL	BLANK	pCi/g	2.04E-02	7.13E-02	1.18E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	TH-234	MBL	BLANK	pCi/g	3.39E-01	2.63E-01	4.71E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	TL-208	MBL	BLANK	pCi/g	6.95E-03	5.26E-02	8.59E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
03	AC-228	DUP	FEEBRISID-09-088-089	pCi/g	8.73E-01	4.80E-01	8.89E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	BI-214	DUP	FEEBRISID-09-088-089	pCi/g	1.56E+01	1.13E+00	4.84E-01				NA	06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	K-40	DUP	FEEBRISID-09-088-089	pCi/g	5.29E+00	1.66E+00	2.21E+00				NA	06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	PB-212	DUP	FEEBRISID-09-088-089	pCi/g	5.09E-01	1.94E-01	6.96E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	PB-214	DUP	FEEBRISID-09-088-089	pCi/g	2.23E+01	1.52E+00	5.83E-01				NA	06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	RA-226	DUP	FEEBRISID-09-088-089	pCi/g	1.56E+01	1.13E+00	4.84E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	RA-228	DUP	FEEBRISID-09-088-089	pCi/g	8.73E-01	4.80E-01	8.89E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	TH-234	DUP	FEEBRISID-09-088-089	pCi/g	1.95E+00	3.03E+00	4.56E+00					06/11/15 08:55	3.30E+02	07/06/15 06:09	NO
03	TL-208	DUP	FEEBRISID-09-088-089	pCi/g	5.58E-01	1.83E-01	1.84E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
04	AC-228	DO	FEEBRISID-09-088-089	pCi/g	8.14E-01	4.41E-01	8.26E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	BI-214	DO	FEEBRISID-09-088-089	pCi/g	1.58E+01	1.13E+00	2.95E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	K-40	DO	FEEBRISID-09-088-089	pCi/g	6.90E+00	1.76E+00	2.12E+00					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	PB-212	DO	FEEBRISID-09-088-089	pCi/g	-7.90E+00	9.38E-01	4.23E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	NO
04	PB-214	DO	FEEBRISID-09-088-089	pCi/g	2.18E+01	1.49E+00	6.12E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	RA-226	DO	FEEBRISID-09-088-089	pCi/g	1.58E+01	1.13E+00	2.95E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	RA-228	DO	FEEBRISID-09-088-089	pCi/g	8.14E-01	4.41E-01	8.26E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	TH-234	DO	FEEBRISID-09-088-089	pCi/g	4.68E+00	3.10E+00	4.72E+00					06/11/15 08:55	3.30E+02	07/06/15 07:12	NO
04	TL-208	DO	FEEBRISID-09-088-089	pCi/g	5.38E-01	3.55E-01	3.92E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	NO

Count Room Report
Client: AMO Environmental Decisio

15-06043-Gamma-2 (pCi/g) in SO
Tracer ID:

Printed: 6/16/2015 3:36 PM

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/12/15 00:00	1.0000				0.00		
02	MBL	BLANK	06/12/15 00:00	1.0000				0.00		
03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	330.0200				0.00		
04	DO	FEEBRISID-09-088-089	06/11/15 08:55	330.0200				0.00		

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 6/16/2015 3:36 PM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06043	2	Gamma	grams	6/17/2015	JPACHELLA

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRISID-09-088-089	DUP					3.3002E+02	3.3002E+02				
04	FEEBRISID-09-088-089	DO					3.3002E+02	3.3002E+02				

Comments	

Technician: Kerry Sacy Date: 6/16/15

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty*, % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY — HEALTH PHYSICS SOCIETY — FOUNDED 1956

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00461

Apex-Gamma

Analysis Report for 1506043-01
GAS-1302

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 7:10:04AM
Acquisition Started	: 6/30/2015 7:47:13AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1829.6 seconds
Dead Time	: 1.62 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 17 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23891

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/6/15

Analysis Report for 1506043-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 6/30/2015 8:17:46AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	32.33	32.68	0.0000	0.00
2	49.78	50.13	0.0000	0.00
3	59.52	59.87	0.0000	0.00
4	68.86	69.20	0.0000	0.00
5	88.10	88.44	0.0000	0.00
6	91.38	91.72	0.0000	0.00
7	122.13	122.45	0.0000	0.00
8	136.50	136.82	0.0000	0.00
9	165.88	166.19	0.0000	0.00
10	238.93	239.22	0.0000	0.00
11	310.39	310.65	0.0000	0.00
12	351.84	352.09	0.0000	0.00
13	391.59	391.83	0.0000	0.00
14	432.50	432.72	0.0000	0.00
15	582.33	582.50	0.0000	0.00
16	661.58	661.72	0.0000	0.00
17	677.44	677.57	0.0000	0.00
18	874.98	875.05	0.0000	0.00
19	897.88	897.94	0.0000	0.00
20	955.32	955.36	0.0000	0.00
21	971.99	972.02	0.0000	0.00
22	1173.10	1173.07	0.0000	0.00
23	1239.53	1239.47	0.0000	0.00
24	1332.34	1332.24	0.0000	0.00
25	1835.72	1835.44	0.0000	0.00
26	1941.93	1941.61	0.0000	0.00
27	1953.82	1953.50	0.0000	0.00
28	1994.69	1994.35	0.0000	0.00
29	2003.58	2003.24	0.0000	0.00
30	2009.11	2008.76	0.0000	0.00
31	2286.92	2286.47	0.0000	0.00
32	2397.69	2397.20	0.0000	0.00
33	2404.72	2404.22	0.0000	0.00
34	2479.35	2478.82	0.0000	0.00
35	2505.15	2504.61	0.0000	0.00
36	2614.05	2613.47	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/30/2015 8:17:46AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	32.33	30 -	35	32.68	2.35E+03	275.89	1.34E+04	2.05
M	2	49.78	45 -	65	50.13	5.32E+03	332.88	1.72E+04	1.41
m	3	59.52	45 -	65	59.87	8.93E+04	684.46	1.77E+04	1.43
	4	68.86	67 -	72	69.20	8.00E+02	390.73	2.99E+04	2.41
M	5	88.10	84 -	95	88.44	5.25E+04	543.31	1.94E+04	1.53
m	6	91.38	84 -	95	91.72	3.63E+02	415.43	1.33E+04	1.64
	7	122.13	118 -	126	122.45	1.26E+04	429.16	2.04E+04	1.90
	8	136.50	133 -	140	136.82	1.77E+03	313.06	1.51E+04	1.49
	9	165.88	162 -	170	166.19	2.68E+03	332.91	1.54E+04	1.52
	10	238.93	237 -	242	239.22	2.58E+02	227.46	1.01E+04	1.80
	11	310.39	309 -	314	310.65	1.88E+02	187.59	6.89E+03	1.13
	12	351.84	350 -	354	352.09	1.69E+02	158.74	5.44E+03	2.09
	13	391.59	388 -	395	391.83	1.00E+03	233.96	8.46E+03	1.38
	14	432.50	429 -	436	432.72	3.93E+02	221.02	7.90E+03	5.09
	15	582.33	580 -	586	582.50	1.28E+02	153.01	4.16E+03	3.40
	16	661.58	656 -	667	661.72	3.39E+04	435.38	6.73E+03	1.86
	17	677.44	675 -	680	677.57	1.06E+02	122.92	2.93E+03	2.13
	18	874.98	872 -	878	875.05	2.00E+02	151.33	3.99E+03	2.87
	19	897.88	894 -	902	897.94	7.89E+02	208.06	6.19E+03	1.85
	20	955.32	953 -	958	955.36	1.29E+02	149.62	4.34E+03	3.71
	21	971.99	970 -	975	972.02	1.14E+02	134.67	3.51E+03	2.94
	22	1173.10	1168 -	1178	1173.07	3.12E+04	382.33	2.82E+03	1.95
	23	1239.53	1237 -	1242	1239.47	4.37E+01	54.62	5.63E+02	2.88
	24	1332.34	1326 -	1337	1332.24	2.84E+04	349.53	1.05E+03	2.12
	25	1835.72	1830 -	1841	1835.44	5.47E+02	60.56	1.83E+02	2.45
M	26	1941.93	1938 -	1958	1941.61	2.79E+01	17.14	2.67E+01	3.15
m	27	1953.82	1938 -	1958	1953.50	2.56E+01	20.14	2.89E+01	2.87
	28	1994.69	1990 -	2000	1994.35	3.55E+01	29.74	9.90E+01	4.02
M	29	2003.58	2001 -	2012	2003.24	1.66E+01	13.11	3.52E+01	2.63
m	30	2009.11	2001 -	2012	2008.76	2.74E+01	22.18	6.62E+01	2.63
	31	2286.92	2283 -	2290	2286.47	1.87E+01	22.89	7.25E+01	4.47
	32	2397.69	2393 -	2400	2397.20	1.41E+01	8.94	3.75E+00	3.78
	33	2404.72	2402 -	2406	2404.22	7.11E+00	6.96	3.78E+00	1.37
	34	2479.35	2475 -	2481	2478.82	6.44E+00	6.65	3.13E+00	2.71
	35	2505.15	2500 -	2511	2504.61	3.59E+02	38.57	7.36E+00	2.46
	36	2614.05	2610 -	2616	2613.47	3.20E+01	11.31	0.00E+00	3.57

Analysis Report for 1506043-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/30/2015 8:17:46AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	32.33	30 -	35	2.35E+03	275.89	1.34E+04	2.12E+02
M	2	49.78	45 -	65	5.32E+03	332.88	1.72E+04	2.16E+02
m	3	59.52	45 -	65	8.93E+04	684.46	1.77E+04	2.19E+02
	4	68.86	67 -	72	8.00E+02	390.73	2.99E+04	3.18E+02
M	5	88.10	84 -	95	5.25E+04	543.31	1.94E+04	2.29E+02
m	6	91.38	84 -	95	3.63E+02	415.43	1.33E+04	1.89E+02
	7	122.13	118 -	126	1.26E+04	429.16	2.04E+04	3.01E+02
	8	136.50	133 -	140	1.77E+03	313.06	1.51E+04	2.48E+02
	9	165.88	162 -	170	2.68E+03	332.91	1.54E+04	2.60E+02
	10	238.93	237 -	242	2.58E+02	227.46	1.01E+04	1.85E+02
	11	310.39	309 -	314	1.88E+02	187.59	6.89E+03	1.53E+02
	12	351.84	350 -	354	1.69E+02	158.74	5.44E+03	1.29E+02
	13	391.59	388 -	395	1.00E+03	233.96	8.46E+03	1.85E+02
	14	432.50	429 -	436	3.93E+02	221.02	7.90E+03	1.79E+02
	15	582.33	580 -	586	1.28E+02	153.01	4.16E+03	1.24E+02
	16	661.58	656 -	667	3.39E+04	435.38	6.73E+03	1.91E+02
	17	677.44	675 -	680	1.06E+02	122.92	2.93E+03	9.96E+01
	18	874.98	872 -	878	2.00E+02	151.33	3.99E+03	1.22E+02
	19	897.88	894 -	902	7.89E+02	208.06	6.19E+03	1.65E+02
	20	955.32	953 -	958	1.29E+02	149.62	4.34E+03	1.22E+02
	21	971.99	970 -	975	1.14E+02	134.67	3.51E+03	1.09E+02
	22	1173.10	1168 -	1178	3.12E+04	382.33	2.82E+03	1.20E+02
	23	1239.53	1237 -	1242	4.37E+01	54.62	5.63E+02	4.36E+01
	24	1332.34	1326 -	1337	2.84E+04	349.53	1.05E+03	7.52E+01
	25	1835.72	1830 -	1841	5.47E+02	60.56	1.83E+02	3.16E+01
M	26	1941.93	1938 -	1958	2.79E+01	17.14	2.67E+01	8.50E+00
m	27	1953.82	1938 -	1958	2.56E+01	20.14	2.89E+01	8.84E+00
	28	1994.69	1990 -	2000	3.55E+01	29.74	9.90E+01	2.24E+01
M	29	2003.58	2001 -	2012	1.66E+01	13.11	3.52E+01	9.76E+00
m	30	2009.11	2001 -	2012	2.74E+01	22.18	6.62E+01	1.34E+01
	31	2286.92	2283 -	2290	1.87E+01	22.89	7.25E+01	1.74E+01

Analysis Report for 1506043-01

GAS-1302

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	2397.69	2393 -	2400	1.41E+01	8.94	3.75E+00	3.98E+00
33	2404.72	2402 -	2406	7.11E+00	6.96	3.78E+00	3.68E+00
34	2479.35	2475 -	2481	6.44E+00	6.65	3.13E+00	3.54E+00
35	2505.15	2500 -	2511	3.59E+02	38.57	7.36E+00	5.85E+00
36	2614.05	2610 -	2616	3.20E+01	11.31	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 6/30/2015 8:17:46AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	32.33	30 -	35	32.68	2.35E+03	275.89	1.34E+04	.....
M	2	49.78	45 -	65	50.13	5.32E+03	332.88	1.72E+04	TE-132
									TH-227
m	3	59.52	45 -	65	59.87	8.93E+04	684.46	1.77E+04	AM-241
	4	68.86	67 -	72	69.20	8.00E+02	390.73	2.99E+04	TI-44
M	5	88.10	84 -	95	88.44	5.25E+04	543.31	1.94E+04	CD-109
									LU-176
									SN-126
m	6	91.38	84 -	95	91.72	3.63E+02	415.43	1.33E+04	ND-147
	7	122.13	118 -	126	122.45	1.26E+04	429.16	2.04E+04	CO-57
									EU-152
									EU-154
	8	136.50	133 -	140	136.82	1.77E+03	313.06	1.51E+04	CO-57
									SE-75
	9	165.88	162 -	170	166.19	2.68E+03	332.91	1.54E+04	CE-139
	10	238.93	237 -	242	239.22	2.58E+02	227.46	1.01E+04	PB-212
	11	310.39	309 -	314	310.65	1.88E+02	187.59	6.89E+03	.....
	12	351.84	350 -	354	352.09	1.69E+02	158.74	5.44E+03	PB-214
	13	391.59	388 -	395	391.83	1.00E+03	233.96	8.46E+03	SN-113
	14	432.50	429 -	436	432.72	3.93E+02	221.02	7.90E+03	.....
	15	582.33	580 -	586	582.50	1.28E+02	153.01	4.16E+03	TL-208

Analysis Report for 1506043-01

GAS-1302

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	16	661.58	656 -	667	661.72	3.39E+04	435.38	6.73E+03	CS-137
	17	677.44	675 -	680	677.57	1.06E+02	122.92	2.93E+03	AG-110M
	18	874.98	872 -	878	875.05	2.00E+02	151.33	3.99E+03	.....
	19	897.88	894 -	902	897.94	7.89E+02	208.06	6.19E+03	Y-88
	20	955.32	953 -	958	955.36	1.29E+02	149.62	4.34E+03	.....
	21	971.99	970 -	975	972.02	1.14E+02	134.67	3.51E+03	.....
	22	1173.10	1168 -	1178	1173.07	3.12E+04	382.33	2.82E+03	CO-60
	23	1239.53	1237 -	1242	1239.47	4.37E+01	54.62	5.63E+02	.....
	24	1332.34	1326 -	1337	1332.24	2.84E+04	349.53	1.05E+03	CO-60
	25	1835.72	1830 -	1841	1835.44	5.47E+02	60.56	1.83E+02	Y-88
M	26	1941.93	1938 -	1958	1941.61	2.79E+01	17.14	2.67E+01	.....
m	27	1953.82	1938 -	1958	1953.50	2.56E+01	20.14	2.89E+01	.....
	28	1994.69	1990 -	2000	1994.35	3.55E+01	29.74	9.90E+01	.....
M	29	2003.58	2001 -	2012	2003.24	1.66E+01	13.11	3.52E+01	.....
m	30	2009.11	2001 -	2012	2008.76	2.74E+01	22.18	6.62E+01	.....
	31	2286.92	2283 -	2290	2286.47	1.87E+01	22.89	7.25E+01	.....
	32	2397.69	2393 -	2400	2397.20	1.41E+01	8.94	3.75E+00	.....
	33	2404.72	2402 -	2406	2404.22	7.11E+00	6.96	3.78E+00	.....
	34	2479.35	2475 -	2481	2478.82	6.44E+00	6.65	3.13E+00	.....
	35	2505.15	2500 -	2511	2504.61	3.59E+02	38.57	7.36E+00	.....
	36	2614.05	2610 -	2616	2613.47	3.20E+01	11.31	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 6/30/2015 8:17:46AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	32.33	2.35E+03	275.89	6.23E-03	1.78E-03
M	2	49.78	5.32E+03	332.88	1.89E-02	1.78E-03
m	3	59.52	8.93E+04	684.46	2.36E-02	1.78E-03
	4	68.86	8.00E+02	390.73	2.64E-02	2.10E-03
M	5	88.10	5.25E+04	543.31	2.85E-02	2.74E-03
m	6	91.38	3.63E+02	415.43	2.86E-02	2.67E-03
	7	122.13	1.26E+04	429.16	2.72E-02	2.07E-03
	8	136.50	1.77E+03	313.06	2.61E-02	2.10E-03
	9	165.88	2.68E+03	332.91	2.38E-02	2.18E-03

Analysis Report for 1506043-01

GAS-1302

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	10	238.93	2.58E+02	227.46	1.92E-02	1.64E-03
	11	310.39	1.88E+02	187.59	1.61E-02	1.28E-03
	12	351.84	1.69E+02	158.74	1.48E-02	1.19E-03
	13	391.59	1.00E+03	233.96	1.37E-02	1.11E-03
	14	432.50	3.93E+02	221.02	1.27E-02	1.07E-03
	15	582.33	1.28E+02	153.01	1.02E-02	9.16E-04
	16	661.58	3.39E+04	435.38	9.22E-03	8.34E-04
	17	677.44	1.06E+02	122.92	9.05E-03	8.20E-04
	18	874.98	2.00E+02	151.33	7.38E-03	6.43E-04
	19	897.88	7.89E+02	208.06	7.23E-03	6.22E-04
	20	955.32	1.29E+02	149.62	6.88E-03	5.93E-04
	21	971.99	1.14E+02	134.67	6.79E-03	5.84E-04
	22	1173.10	3.12E+04	382.33	5.85E-03	4.79E-04
	23	1239.53	4.37E+01	54.62	5.61E-03	4.67E-04
	24	1332.34	2.84E+04	349.53	5.31E-03	4.51E-04
	25	1835.72	5.47E+02	60.56	4.30E-03	3.26E-04
M	26	1941.93	2.79E+01	17.14	4.17E-03	3.26E-04
m	27	1953.82	2.56E+01	20.14	4.16E-03	3.26E-04
	28	1994.69	3.55E+01	29.74	4.12E-03	3.26E-04
M	29	2003.58	1.66E+01	13.11	4.11E-03	3.26E-04
m	30	2009.11	2.74E+01	22.18	4.10E-03	3.26E-04
	31	2286.92	1.87E+01	22.89	3.90E-03	3.26E-04
	32	2397.69	1.41E+01	8.94	3.85E-03	3.26E-04
	33	2404.72	7.11E+00	6.96	3.85E-03	3.26E-04
	34	2479.35	6.44E+00	6.65	3.82E-03	3.26E-04
	35	2505.15	3.59E+02	38.57	3.82E-03	3.26E-04
	36	2614.05	3.20E+01	11.31	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/30/2015 8:17:46AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023400.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	32.33	2.35E+03	275.89			2.35E+03	2.76E+02
M	2	49.78	5.32E+03	332.88			5.32E+03	3.33E+02
m	3	59.52	8.93E+04	684.46			8.93E+04	6.84E+02

Analysis Report for 1506043-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	4	68.86	8.00E+02	390.73			8.00E+02	3.91E+02
M	5	88.10	5.25E+04	543.31			5.25E+04	5.43E+02
m	6	91.38	3.63E+02	415.43			3.63E+02	4.15E+02
	7	122.13	1.26E+04	429.16			1.26E+04	4.29E+02
	8	136.50	1.77E+03	313.06			1.77E+03	3.13E+02
	9	165.88	2.68E+03	332.91			2.68E+03	3.33E+02
	10	238.93	2.58E+02	227.46	1.01E+01	3.08E+00	2.48E+02	2.27E+02
	11	310.39	1.88E+02	187.59			1.88E+02	1.88E+02
	12	351.84	1.69E+02	158.74	3.06E+00	2.50E+00	1.66E+02	1.59E+02
	13	391.59	1.00E+03	233.96			1.00E+03	2.34E+02
	14	432.50	3.93E+02	221.02			3.93E+02	2.21E+02
	15	582.33	1.28E+02	153.01	3.54E+00	1.46E+00	1.25E+02	1.53E+02
	16	661.58	3.39E+04	435.38			3.39E+04	4.35E+02
	17	677.44	1.06E+02	122.92			1.06E+02	1.23E+02
	18	874.98	2.00E+02	151.33			2.00E+02	1.51E+02
	19	897.88	7.89E+02	208.06			7.89E+02	2.08E+02
	20	955.32	1.29E+02	149.62			1.29E+02	1.50E+02
	21	971.99	1.14E+02	134.67			1.14E+02	1.35E+02
	22	1173.10	3.12E+04	382.33			3.12E+04	3.82E+02
	23	1239.53	4.37E+01	54.62			4.37E+01	5.46E+01
	24	1332.34	2.84E+04	349.53			2.84E+04	3.50E+02
	25	1835.72	5.47E+02	60.56			5.47E+02	6.06E+01
M	26	1941.93	2.79E+01	17.14			2.79E+01	1.71E+01
m	27	1953.82	2.56E+01	20.14			2.56E+01	2.01E+01
	28	1994.69	3.55E+01	29.74			3.55E+01	2.97E+01
M	29	2003.58	1.66E+01	13.11			1.66E+01	1.31E+01
m	30	2009.11	2.74E+01	22.18			2.74E+01	2.22E+01
	31	2286.92	1.87E+01	22.89			1.87E+01	2.29E+01
	32	2397.69	1.41E+01	8.94			1.41E+01	8.94E+00
	33	2404.72	7.11E+00	6.96			7.11E+00	6.96E+00
	34	2479.35	6.44E+00	6.65			6.44E+00	6.65E+00
	35	2505.15	3.59E+02	38.57			3.59E+02	3.86E+01
	36	2614.05	3.20E+01	11.31	2.57E+00	7.31E-01	2.94E+01	1.13E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS-1302

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 6/30/2015 8:17:46AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023400.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	32.33	2.35E+03	275.89			2.35E+03	2.76E+02
M	2	49.78	5.32E+03	332.88			5.32E+03	3.33E+02
m	3	59.52	8.93E+04	684.46			8.93E+04	6.84E+02
	4	68.86	8.00E+02	390.73			8.00E+02	3.91E+02
M	5	88.10	5.25E+04	543.31			5.25E+04	5.43E+02
m	6	91.38	3.63E+02	415.43			3.63E+02	4.15E+02
	7	122.13	1.26E+04	429.16			1.26E+04	4.29E+02
	8	136.50	1.77E+03	313.06			1.77E+03	3.13E+02
	9	165.88	2.68E+03	332.91			2.68E+03	3.33E+02
	10	238.93	2.58E+02	227.46	1.01E+01	3.08E+00	2.48E+02	2.27E+02
	11	310.39	1.88E+02	187.59			1.88E+02	1.88E+02
	12	351.84	1.69E+02	158.74	3.06E+00	2.50E+00	1.66E+02	1.59E+02
	13	391.59	1.00E+03	233.96			1.00E+03	2.34E+02
	14	432.50	3.93E+02	221.02			3.93E+02	2.21E+02
	15	582.33	1.28E+02	153.01	3.54E+00	1.46E+00	1.25E+02	1.53E+02
	16	661.58	3.39E+04	435.38			3.39E+04	4.35E+02
	17	677.44	1.06E+02	122.92			1.06E+02	1.23E+02
	18	874.98	2.00E+02	151.33			2.00E+02	1.51E+02
	19	897.88	7.89E+02	208.06			7.89E+02	2.08E+02
	20	955.32	1.29E+02	149.62			1.29E+02	1.50E+02
	21	971.99	1.14E+02	134.67			1.14E+02	1.35E+02
	22	1173.10	3.12E+04	382.33			3.12E+04	3.82E+02
	23	1239.53	4.37E+01	54.62			4.37E+01	5.46E+01
	24	1332.34	2.84E+04	349.53			2.84E+04	3.50E+02
	25	1835.72	5.47E+02	60.56			5.47E+02	6.06E+01
M	26	1941.93	2.79E+01	17.14			2.79E+01	1.71E+01
m	27	1953.82	2.56E+01	20.14			2.56E+01	2.01E+01
	28	1994.69	3.55E+01	29.74			3.55E+01	2.97E+01
M	29	2003.58	1.66E+01	13.11			1.66E+01	1.31E+01
m	30	2009.11	2.74E+01	22.18			2.74E+01	2.22E+01
	31	2286.92	1.87E+01	22.89			1.87E+01	2.29E+01
	32	2397.69	1.41E+01	8.94			1.41E+01	8.94E+00
	33	2404.72	7.11E+00	6.96			7.11E+00	6.96E+00
	34	2479.35	6.44E+00	6.65			6.44E+00	6.65E+00
	35	2505.15	3.59E+02	38.57			3.59E+02	3.86E+01
	36	2614.05	3.20E+01	11.31	2.57E+00	7.31E-01	2.94E+01	1.13E+01

Analysis Report for 1506043-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.964	122.06	*	85.51	7.15E+01	5.98E+00
		136.48	*	10.60	8.43E+01	1.66E+01
CO-60	0.997	1173.22	*	100.00	1.42E+02	1.17E+01
		1332.49	*	100.00	1.42E+02	1.22E+01
Y-88	0.785	898.02	*	93.40	2.73E+02	7.57E+01
		1836.01	*	99.38	2.99E+02	4.01E+01
CD-109	0.987	88.03	*	3.72	3.00E+03	3.40E+02
SN-113	0.773	255.12		1.93		
		391.69	*	64.90	1.86E+02	4.63E+01
SN-126	0.956	87.57	*	37.00	1.01E+02	9.81E+00
CS-137	0.999	661.65	*	85.12	9.23E+01	8.45E+00
CE-139	0.869	165.85	*	80.35	1.12E+02	1.73E+01
TL-208	0.818	583.14	*	30.22	8.27E-01	1.02E+00
		860.37		4.48		
		2614.66	*	35.85	4.41E-01	1.74E-01
PB-212	0.881	238.63	*	44.60	5.91E-01	5.44E-01
		300.09		3.41		
PB-214	0.432	295.21		19.19		
		351.92	*	37.19	6.18E-01	5.92E-01
AM-241	1.000	59.54	*	35.90	2.16E+02	1.64E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/30/2015 8:17:46AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.33	1.30660E+00	5.87		
M	2	49.78	2.95299E+00	3.13	Tol.	TE-132 TH-227
	4	68.86	4.44608E-01	24.41		
m	6	91.38	2.01406E-01	57.30	Tol.	ND-147
	11	310.39	1.04379E-01	49.92	D-Esc	
	14	432.50	2.18177E-01	28.14		
	17	677.44	5.89296E-02	57.94	Tol.	AG-110M
	18	874.98	1.11212E-01	37.80		
	20	955.32	7.15908E-02	58.05		
	21	971.99	6.32353E-02	59.16		
	23	1239.53	2.42991E-02	62.44		
M	26	1941.93	1.54994E-02	30.72		
m	27	1953.82	1.42373E-02	39.30		
	28	1994.69	1.97222E-02	41.89	Sum	
M	29	2003.58	9.22769E-03	39.48		
m	30	2009.11	1.52116E-02	40.50		
	31	2286.92	1.04040E-02	61.12		
	32	2397.69	7.84722E-03	31.66		
	33	2404.72	3.95062E-03	48.97		
	34	2479.35	3.57639E-03	51.67		
	35	2505.15	1.99621E-01	5.37	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506043-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.96	122.06	*	85.51	7.15E+01	5.98E+00
		136.48	*	10.60	8.43E+01	1.66E+01
CO-60	0.99	1173.22	*	100.00	1.42E+02	1.17E+01
		1332.49	*	100.00	1.42E+02	1.22E+01
Y-88	0.78	898.02	*	93.40	2.73E+02	7.57E+01
		1836.01	*	99.38	2.99E+02	4.01E+01
CD-109	0.98	88.03	*	3.72	3.00E+03	3.40E+02
SN-113	0.77	255.12		1.93		
		391.69	*	64.90	1.86E+02	4.63E+01
SN-126	0.95	87.57	*	37.00	1.01E+02	9.81E+00
CS-137	0.99	661.65	*	85.12	9.23E+01	8.45E+00
CE-139	0.86	165.85	*	80.35	1.12E+02	1.73E+01
TL-208	0.81	583.14	*	30.22	8.27E-01	1.02E+00
		860.37		4.48		
		2614.66	*	35.85	4.41E-01	1.74E-01
PB-212	0.88	238.63	*	44.60	5.91E-01	5.44E-01
		300.09		3.41		
PB-214	0.43	295.21		19.19		
		351.92	*	37.19	6.18E-01	5.92E-01
AM-241	1.00	59.54	*	35.90	2.16E+02	1.64E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.964	7.29E+01	5.64E+00	
	CO-60	0.997	1.42E+02	8.45E+00	
	Y-88	0.785	2.93E+02	3.55E+01	
?	CD-109	0.987	3.00E+03	3.40E+02	
	SN-113	0.773	1.86E+02	4.63E+01	
?	SN-126	0.956	1.01E+02	9.81E+00	
	CS-137	0.999	9.23E+01	8.45E+00	

Analysis Report for 1506043-01

GAS-1302

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
CE-139	0.869	1.12E+02	1.73E+01	
TL-208	0.818	4.52E-01	1.72E-01	
PB-212	0.881	5.91E-01	5.44E-01	
PB-214	0.432	6.18E-01	5.92E-01	
AM-241	1.000	2.16E+02	1.64E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-01

GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/30/2015 8:17:46AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.33	1.30660E+00	5.87		
M	2	49.78	2.95299E+00	3.13	Tol.	TE-132
						TH-227
	4	68.86	4.44608E-01	24.41		
m	6	91.38	2.01406E-01	57.30	Tol.	ND-147
	11	310.39	1.04379E-01	49.92	D-Esc	
	14	432.50	2.18177E-01	28.14		
	17	677.44	5.89296E-02	57.94	Tol.	AG-110M
	18	874.98	1.11212E-01	37.80		
	20	955.32	7.15908E-02	58.05		
	21	971.99	6.32353E-02	59.16		
	23	1239.53	2.42991E-02	62.44		
M	26	1941.93	1.54994E-02	30.72		
m	27	1953.82	1.42373E-02	39.30		
	28	1994.69	1.97222E-02	41.89	Sum	
M	29	2003.58	9.22769E-03	39.48		
m	30	2009.11	1.52116E-02	40.50		
	31	2286.92	1.04040E-02	61.12		
	32	2397.69	7.84722E-03	31.66		
	33	2404.72	3.95062E-03	48.97		
	34	2479.35	3.57639E-03	51.67		
	35	2505.15	1.99621E-01	5.37	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506043-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	-7.08E+03	5.87E+04	5.87E+04
+		NA-22	1274.54		99.94	1.21E-01	5.08E-01	5.08E-01
+	@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09		99.86	1.00E+26		1.00E+26
+		AL-26	1808.65		99.76	8.71E-02	2.02E-01	2.02E-01
+		K-40	1460.81		10.67	1.06E+00	2.19E+00	2.19E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	1.07E+00	4.11E-01	4.52E-01
			78.34		96.00	-1.84E-01		4.11E-01
+		SC-46	889.25		99.98	3.27E+01	2.57E+02	2.62E+02
			1120.51		99.99	8.15E+01		2.57E+02
+		V-48	983.52		99.98	4.90E+12	1.70E+13	3.60E+13
			1312.10		97.50	8.99E+12		1.70E+13
+		CR-51	320.08		9.83	1.66E+07	2.81E+08	2.81E+08
+		MN-54	834.83		99.97	1.67E-01	2.84E+00	2.84E+00
+		CO-56	846.75		99.96	1.97E-01	2.09E+02	3.51E+02
			1037.75		14.03	7.28E+02		2.84E+03
			1238.25		67.00	-4.47E+01		3.07E+02
			1771.40		15.51	-1.03E+02		7.22E+02
			2598.48		16.90	1.94E+01		2.09E+02
+		CO-57	122.06	*	85.51	7.15E+01	3.42E+00	3.42E+00
			136.48	*	10.60	8.43E+01		2.37E+01
+		CO-58	810.76		99.40	3.68E+02	6.99E+02	6.99E+02
+		FE-59	1099.22		56.50	-2.04E+04	5.33E+04	9.91E+04
			1291.56		43.20	-2.24E+04		5.33E+04
+		CO-60	1173.22	*	100.00	1.42E+02	7.65E-01	1.10E+00
			1332.49	*	100.00	1.42E+02		7.65E-01
+		ZN-65	1115.52		50.75	1.60E+00	1.02E+01	1.02E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	3.58E+03	3.37E+01	1.91E+02
			136.00		59.20	1.52E+02		3.37E+01
			264.65		59.80	-4.94E+00		3.60E+01
			279.53		25.20	-1.04E+01		8.52E+01
			400.65		11.40	-6.23E+01		2.19E+02
+		RB-82	776.52		13.00	-4.75E+08	1.50E+09	1.50E+09
+		RB-83	520.41		46.00	8.84E+01	3.35E+02	3.35E+02
			529.64		30.30	1.73E+02		5.17E+02
			552.65		16.40	-3.11E+02		9.30E+02
+		KR-85	513.99		0.43	-6.42E-01	1.18E+02	1.18E+02
+		SR-85	513.99		99.27	-5.98E+00	1.10E+03	1.10E+03
+		Y-88	898.02	*	93.40	2.73E+02	3.61E+01	1.15E+02
			1836.01	*	99.38	2.99E+02		3.61E+01
+		NB-93M	16.57		9.43	-4.72E+03	4.84E+02	4.84E+02
+		NB-94	702.63		100.00	-1.06E-01	4.67E-01	4.67E-01

Analysis Report for 1506043-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		NB-94	871.10		100.00	-9.59E-02	4.67E-01	6.05E-01
+		NB-95	765.79		99.81	-3.17E+04	9.21E+05	9.21E+05
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	-3.47E+02	2.39E+03	2.92E+03
			756.72		55.30	-4.80E+01		2.39E+03
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	-1.29E+05	1.87E+05	1.87E+05
+		RU-106	621.84		9.80	-9.97E+00	1.81E+01	1.81E+01
+		AG-108M	433.93		89.90	5.43E-01	5.03E-01	5.26E-01
			614.37		90.40	3.49E-02		5.03E-01
			722.95		90.50	1.64E-01		5.36E-01
+		CD-109	88.03	*	3.72	3.00E+03	5.37E+01	5.37E+01
+		AG-110M	657.75		93.14	-5.83E+01	6.58E+00	1.01E+01
			677.61		10.53	7.26E+00		3.24E+01
			706.67		16.46	2.26E+00		2.18E+01
			763.93		21.98	-8.38E+00		1.72E+01
			884.67		71.63	-1.82E-01		6.58E+00
			1384.27		23.94	4.03E+00		7.32E+00
+		CD-113M	263.70		0.02	3.94E+02	1.53E+03	1.53E+03
+		SN-113	255.12		1.93	3.88E+02	6.92E+01	1.33E+03
			391.69	*	64.90	1.86E+02		6.92E+01
+		TE123M	159.00		84.10	1.97E+00	2.11E+01	2.11E+01
+		SB-124	602.71		97.87	-1.22E+03	1.91E+03	1.98E+03
			645.85		7.26	-7.05E+03		2.87E+04
			722.78		11.10	5.83E+03		1.91E+04
			1691.02		49.00	3.04E+02		1.91E+03
+		I-125	35.49		6.49	6.19E+04	6.20E+04	6.20E+04
+		SB-125	176.33		6.89	-4.97E+00	2.54E+00	6.38E+00
			427.89		29.33	8.03E-01		2.54E+00
			463.38		10.35	1.41E+00		7.88E+00
			600.56		17.80	8.90E-01		4.09E+00
			635.90		11.32	-4.64E+00		6.62E+00
+		SB-126	414.70		83.30	4.63E+16	2.30E+17	2.63E+17
			666.33		99.60	-3.30E+16		4.03E+17
			695.00		99.60	-6.45E+16		2.30E+17
			720.50		53.80	4.07E+17		4.46E+17
+		SN-126	87.57	*	37.00	1.01E+02	1.82E+00	1.82E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-4.50E+00	3.03E+00	3.03E+00
			33.60		13.20	3.21E+01		9.14E+00
			39.58		7.52	-3.83E+01		9.02E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
@	I-131	722.89		1.80	1.00E+26	1.00E+26	1.00E+26
+ @	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
@		228.16		88.00	1.00E+26		1.00E+26
+	BA-133	81.00		33.00	-8.56E-01	6.42E-01	1.34E+00
		302.84		17.80	4.13E-01		2.06E+00
		356.01		60.00	3.26E-02		6.42E-01
+ @	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+	CS-134	563.23		8.38	8.10E+00	8.92E-01	1.03E+01
		569.32		15.43	-3.60E+00		5.45E+00
		604.70		97.60	-3.45E-01		8.92E-01
		795.84		85.40	-2.28E-01		1.20E+00
		801.93		8.73	3.78E+00		1.20E+01
+	CS-135	268.24		16.00	-3.68E-01	1.99E+00	1.99E+00
+ @	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
@		1260.41		28.60	1.00E+26		1.00E+26
@		1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	5.77E+16	2.67E+16	1.67E+17
		163.89		4.61	7.45E+16		3.23E+17
		176.55		13.56	-7.27E+16		9.34E+16
		273.65		12.66	2.86E+16		1.19E+17
		340.57		48.50	-1.26E+14		3.26E+16
		818.50		99.70	-5.96E+15		2.67E+16
		1048.07		79.60	-1.86E+15		3.79E+16
		1235.34		19.70	-1.57E+16		7.90E+16
+	CS-137	661.65	*	85.12	9.23E+01	1.05E+00	1.05E+00
+	LA-138	788.74		34.00	-1.18E-01	3.24E-01	1.54E+00
		1435.80		66.00	5.86E-02		3.24E-01
+	CE-139	165.85	*	80.35	1.12E+02	2.19E+01	2.19E+01
+	BA-140	162.64		6.70	-7.55E+18	2.49E+17	5.85E+17
		304.84		4.50	-4.13E+15		1.03E+18
		423.70		3.20	2.37E+18		2.05E+18
		437.55		2.00	-1.01E+18		3.36E+18
		537.32		25.00	-1.42E+17		2.49E+17
+	LA-140	328.77		20.50	-4.37E+16	3.29E+16	2.29E+17
		487.03		45.50	-8.57E+16		1.42E+17
		815.85		23.50	-7.15E+16		3.41E+17
		1596.49		95.49	-9.28E+15		3.29E+16
+	CE-141	145.44		48.40	1.68E+06	3.05E+06	3.05E+06
+ @	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
@		293.26		42.00	1.00E+26		1.00E+26
@		664.55		5.20	1.00E+26		1.00E+26
+	CE-144	133.54		10.80	-9.85E+01	1.45E+01	1.45E+01
+	PM-144	476.78		42.00	5.16E-01	1.82E+00	4.63E+00
		618.01		98.60	2.78E-01		1.82E+00
		696.49		99.49	-3.41E-01		1.85E+00
+	PM-145	36.85		21.70	3.96E+00	2.10E+00	3.94E+00
		37.36		39.70	1.14E+00		2.10E+00
		42.30		15.10	-6.25E-01		4.77E+00
		72.40		2.31	-4.72E+00		1.85E+01

Analysis Report for 1506043-01

GAS-1302

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		PM-146	453.90	39.94	-5.73E-01	1.55E+00	1.55E+00
			735.90	14.01	6.93E-01		4.49E+00
			747.13	13.10	1.34E+00		4.77E+00
+	@	ND-147	91.11	28.90	1.00E+26	1.00E+26	1.00E+26
	@		531.02	13.10	1.00E+26		1.00E+26
+	@	PM-149	285.90	3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78	20.50	5.05E+01	1.48E+00	2.55E+00
			244.69	5.40	-2.20E+00		6.52E+00
			344.27	19.13	-1.16E-01		1.94E+00
			778.89	9.20	-4.45E-01		6.07E+00
			964.01	10.40	2.42E+00		7.43E+00
			1085.78	7.22	-3.87E+00		1.02E+01
			1112.02	9.60	-2.54E+00		7.71E+00
			1407.95	14.94	-3.94E-02		1.48E+00
+		GD-153	97.43	31.30	-1.33E+00	6.71E+00	6.71E+00
			103.18	22.20	3.87E+00		9.53E+00
+		EU-154	123.07	40.50	2.69E+01	9.83E-01	1.36E+00
			723.30	19.70	8.70E-01		2.85E+00
			873.19	11.50	-2.97E-01		6.24E+00
			996.32	10.30	3.12E-01		7.36E+00
			1004.76	17.90	1.92E-01		4.24E+00
			1274.45	35.50	2.33E-01		9.83E-01
+		EU-155	86.50	30.90	1.50E+02	1.66E+00	3.56E+00
			105.30	20.70	-6.65E-01		1.66E+00
+		EU-156	811.77	10.40	1.06E+15	1.08E+15	1.50E+15
			1153.47	7.20	-1.07E+14		2.06E+15
			1230.71	8.90	3.68E+14		1.08E+15
+		HO-166M	184.41	72.60	3.60E-01	4.02E-01	4.02E-01
			280.45	29.60	3.70E-02		1.07E+00
			410.94	11.10	8.85E-01		3.96E+00
			711.69	54.10	5.25E-01		8.72E-01
+		TM-171	66.72	0.14	3.60E+02	6.06E+02	6.06E+02
+		HF-172	81.75	4.52	-3.71E+00	4.85E+00	1.80E+01
			125.81	11.30	-9.35E-01		4.85E+00
+	@	LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06	16.63	1.00E+26		1.00E+26
	@		912.12	15.25	1.00E+26		1.00E+26
	@		1093.66	62.50	1.00E+26		1.00E+26
+		LU-173	100.72	5.24	8.44E+00	4.15E+00	1.37E+01
			272.11	21.20	1.14E+00		4.15E+00
+		HF-175	343.40	84.00	-7.70E+01	5.44E+02	5.44E+02
+		LU-176	88.34	13.30	2.70E+02	3.41E-01	6.14E+00
			201.83	86.00	2.42E-01		3.54E-01
			306.78	94.00	-1.20E-01		3.41E-01
+		TA-182	67.75	41.20	2.00E+02	8.39E+01	8.39E+01
			1121.30	34.90	4.65E+01		1.44E+02
			1189.05	16.23	-1.03E+02		2.25E+02
			1221.41	26.98	7.34E+01		1.15E+02
			1231.02	11.44	8.44E+01		2.48E+02

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-3.73E+02	9.51E+02	1.01E+03
		468.07		48.10	6.71E+01		9.51E+02
+	HG-203	279.19		77.30	-9.56E+01	2.10E+04	2.10E+04
+	BI-207	569.67		97.72	-1.95E-01	4.60E-01	4.60E-01
		1063.62		74.90	-1.10E-02		8.90E-01
+	TL-208	583.14	*	30.22	8.27E-01	1.22E-01	1.67E+00
		860.37		4.48	-4.32E+00		1.33E+01
		2614.66	*	35.85	4.41E-01		1.22E-01
+	BI-210M	262.00		45.00	3.93E-02	7.05E-01	7.05E-01
		300.00		23.00	3.01E-01		1.40E+00
+	PB-210	46.50		4.25	-1.39E+02	1.76E+01	1.76E+01
+	PB-211	404.84		2.90	-2.19E+00	1.27E+01	1.27E+01
		831.96		2.90	-2.86E+00		1.92E+01
+	BI-212	727.17		11.80	-1.45E+00	4.05E+00	4.05E+00
		1620.62		2.75	3.21E+00		7.54E+00
+	PB-212	238.63	*	44.60	5.91E-01	8.89E-01	8.89E-01
		300.09		3.41	2.03E+00		9.45E+00
+	BI-214	609.31		46.30	9.13E-01	9.94E-01	9.94E-01
		1120.29		15.10	1.30E+00		4.11E+00
		1764.49		15.80	2.93E-01		1.26E+00
		2204.22		4.98	2.27E+00		4.02E+00
+	PB-214	295.21		19.19	2.13E-01	9.68E-01	1.69E+00
		351.92	*	37.19	6.18E-01		9.68E-01
+	RN-219	401.80		6.50	7.78E-03	5.68E+00	5.68E+00
+	RA-223	323.87		3.88	5.82E-01	8.42E+00	8.42E+00
+	RA-224	240.98		3.95	6.16E+00	8.36E+00	8.36E+00
+	RA-225	40.00		31.00	-6.09E+15	1.44E+15	1.44E+15
+	RA-226	186.21		3.28	3.84E+00	8.99E+00	8.99E+00
+	TH-227	50.10		8.40	4.24E+01	2.85E+00	9.25E+00
		236.00		11.50	-4.72E-01		2.85E+00
		256.20		6.30	2.01E+00		5.06E+00
+	AC-228	338.32		11.40	3.85E-01	2.35E+00	2.92E+00
		911.07		27.70	-1.55E+00		2.35E+00
		969.11		16.60	-9.21E-01		4.05E+00
+	TH-230	48.44		16.90	1.32E+01	4.60E+00	4.60E+00
		62.85		4.60	-8.41E+02		1.30E+01
		67.67		0.37	-2.69E+02		1.13E+02
+	PA-231	283.67		1.60	-3.95E+00	1.40E+01	1.99E+01
		302.67		2.30	2.80E+00		1.40E+01
+	TH-231	25.64		14.70	-1.86E+03	6.60E+00	7.10E+01
		84.21		6.40	-7.46E+02		6.60E+00
+	PA-233	311.98		38.60	2.81E+07	1.15E+08	1.15E+08
+	PA-234	131.20		20.40	4.76E-01	1.24E+00	1.24E+00
		733.99		8.80	1.09E+00		5.59E+00
		946.00		12.00	-1.69E-01		5.99E+00
+	PA-234M	1001.03		0.92	-4.21E+01	6.94E+01	6.94E+01
+	TH-234	63.29		3.80	-5.57E+02	1.08E+01	1.08E+01

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76		10.50	3.21E-01	2.45E+00	2.45E+00
		163.35		4.70	1.54E+00		6.65E+00
		205.31		4.70	4.30E-01		6.43E+00
+	NP-237	86.50		12.60	2.78E+02	6.60E+00	6.60E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	2.16E+02	3.99E+00	3.99E+00
+	AM-243	74.67		66.00	-3.77E-01	5.89E-01	5.89E-01
+	CM-243	209.75		3.29	-2.64E+00	2.38E+00	9.86E+00
		228.14		10.60	1.99E+00		3.28E+00
		277.60		14.00	6.99E-01		2.38E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59	10.42	5.87E+04	5.87E+04	-7.08E+03	2.91E+04
	NA-22	1274.54	99.94	5.08E-01	5.08E-01	1.21E-01	2.45E-01
@	NA-24	1368.53	99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09	99.86	1.00E+26		1.00E+26	1.00E+20
	AL-26	1808.65	99.76	2.02E-01	2.02E-01	8.71E-02	9.44E-02
	K-40	1460.81	10.67	2.19E+00	2.19E+00	1.06E+00	1.04E+00
@	AR-41	1293.64	99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88	94.40	4.52E-01	4.11E-01	1.07E+00	2.25E-01
		78.34	96.00	4.11E-01		-1.84E-01	2.04E-01
	SC-46	889.25	99.98	2.62E+02	2.57E+02	3.27E+01	1.30E+02

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	2.57E+02	2.57E+02	8.15E+01	1.27E+02
	V-48	983.52		99.98	3.60E+13	1.70E+13	4.90E+12	1.78E+13
		1312.10		97.50	1.70E+13		8.99E+12	8.20E+12
	CR-51	320.08		9.83	2.81E+08	2.81E+08	1.66E+07	1.39E+08
	MN-54	834.83		99.97	2.84E+00	2.84E+00	1.67E-01	1.40E+00
	CO-56	846.75		99.96	3.51E+02	2.09E+02	1.97E-01	1.73E+02
		1037.75		14.03	2.84E+03		7.28E+02	1.40E+03
		1238.25		67.00	3.07E+02		-4.47E+01	1.49E+02
		1771.40		15.51	7.22E+02		-1.03E+02	3.36E+02
		2598.48		16.90	2.09E+02		1.94E+01	7.84E+01
+	CO-57	122.06	*	85.51	3.42E+00	3.42E+00	7.15E+01	1.70E+00
		136.48	*	10.60	2.37E+01		8.43E+01	1.18E+01
	CO-58	810.76		99.40	6.99E+02	6.99E+02	3.68E+02	3.45E+02
	FE-59	1099.22		56.50	9.91E+04	5.33E+04	-2.04E+04	4.89E+04
		1291.56		43.20	5.33E+04		-2.24E+04	2.57E+04
+	CO-60	1173.22	*	100.00	1.10E+00	7.65E-01	1.42E+02	5.43E-01
		1332.49	*	100.00	7.65E-01		1.42E+02	3.76E-01
	ZN-65	1115.52		50.75	1.02E+01	1.02E+01	1.60E+00	5.02E+00
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	1.91E+02	3.37E+01	3.58E+03	9.53E+01
		136.00		59.20	3.37E+01		1.52E+02	1.67E+01
		264.65		59.80	3.60E+01		-4.94E+00	1.78E+01
		279.53		25.20	8.52E+01		-1.04E+01	4.22E+01
		400.65		11.40	2.19E+02		-6.23E+01	1.08E+02
	RB-82	776.52		13.00	1.50E+09	1.50E+09	-4.75E+08	7.39E+08
	RB-83	520.41		46.00	3.35E+02	3.35E+02	8.84E+01	1.66E+02
		529.64		30.30	5.17E+02		1.73E+02	2.56E+02
		552.65		16.40	9.30E+02		-3.11E+02	4.59E+02
	KR-85	513.99		0.43	1.18E+02	1.18E+02	-6.42E-01	5.81E+01
	SR-85	513.99		99.27	1.10E+03	1.10E+03	-5.98E+00	5.42E+02
+	Y-88	898.02	*	93.40	1.15E+02	3.61E+01	2.73E+02	5.70E+01
		1836.01	*	99.38	3.61E+01		2.99E+02	1.73E+01
	NB-93M	16.57		9.43	4.84E+02	4.84E+02	-4.72E+03	2.38E+02
	NB-94	702.63		100.00	4.67E-01	4.67E-01	-1.06E-01	2.30E-01
		871.10		100.00	6.05E-01		-9.59E-02	2.99E-01
	NB-95	765.79		99.81	9.21E+05	9.21E+05	-3.17E+04	4.54E+05
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	2.92E+03	2.39E+03	-3.47E+02	1.44E+03
		756.72		55.30	2.39E+03		-4.80E+01	1.18E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	1.87E+05	1.87E+05	-1.29E+05	9.27E+04
	RU-106	621.84		9.80	1.81E+01	1.81E+01	-9.97E+00	8.92E+00
	AG-108M	433.93		89.90	5.26E-01	5.03E-01	5.43E-01	2.61E-01
		614.37		90.40	5.03E-01		3.49E-02	2.48E-01
		722.95		90.50	5.36E-01		1.64E-01	2.65E-01
+	CD-109	88.03	*	3.72	5.37E+01	5.37E+01	3.00E+03	2.68E+01
	AG-110M	657.75		93.14	1.01E+01	6.58E+00	-5.83E+01	5.03E+00
		677.61		10.53	3.24E+01		7.26E+00	1.60E+01
		706.67		16.46	2.18E+01		2.26E+00	1.08E+01

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	1.72E+01	6.58E+00	-8.38E+00	8.50E+00
		884.67		71.63	6.58E+00		-1.82E-01	3.25E+00
		1384.27		23.94	7.32E+00		4.03E+00	3.49E+00
	CD-113M	263.70		0.02	1.53E+03	1.53E+03	3.94E+02	7.57E+02
+	SN-113	255.12		1.93	1.33E+03	6.92E+01	3.88E+02	6.59E+02
		391.69	*	64.90	6.92E+01		1.86E+02	3.43E+01
	TE123M	159.00		84.10	2.11E+01	2.11E+01	1.97E+00	1.05E+01
	SB-124	602.71		97.87	1.98E+03	1.91E+03	-1.22E+03	9.78E+02
		645.85		7.26	2.87E+04		-7.05E+03	1.42E+04
		722.78		11.10	1.91E+04		5.83E+03	9.43E+03
		1691.02		49.00	1.91E+03		3.04E+02	9.01E+02
	I-125	35.49		6.49	6.20E+04	6.20E+04	6.19E+04	3.08E+04
	SB-125	176.33		6.89	6.38E+00	2.54E+00	-4.97E+00	3.16E+00
		427.89		29.33	2.54E+00		8.03E-01	1.26E+00
		463.38		10.35	7.88E+00		1.41E+00	3.90E+00
		600.56		17.80	4.09E+00		8.90E-01	2.02E+00
		635.90		11.32	6.62E+00		-4.64E+00	3.27E+00
	SB-126	414.70		83.30	2.63E+17	2.30E+17	4.63E+16	1.30E+17
		666.33		99.60	4.03E+17		-3.30E+16	2.00E+17
		695.00		99.60	2.30E+17		-6.45E+16	1.13E+17
		720.50		53.80	4.46E+17		4.07E+17	2.20E+17
+	SN-126	87.57	*	37.00	1.82E+00	1.82E+00	1.01E+02	9.05E-01
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	3.03E+00	3.03E+00	-4.50E+00	1.51E+00
		33.60		13.20	9.14E+00		3.21E+01	4.54E+00
		39.58		7.52	9.02E+00		-3.83E+01	4.48E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	1.34E+00	6.42E-01	-8.56E-01	6.65E-01
		302.84		17.80	2.06E+00		4.13E-01	1.02E+00
		356.01		60.00	6.42E-01		3.26E-02	3.17E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	1.03E+01	8.92E-01	8.10E+00	5.10E+00
		569.32		15.43	5.45E+00		-3.60E+00	2.69E+00
		604.70		97.60	8.92E-01		-3.45E-01	4.40E-01
		795.84		85.40	1.20E+00		-2.28E-01	5.91E-01
		801.93		8.73	1.20E+01		3.78E+00	5.93E+00
	CS-135	268.24		16.00	1.99E+00	1.99E+00	-3.68E-01	9.83E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.67E+17	2.67E+16	5.77E+16	8.28E+16
		163.89		4.61	3.23E+17		7.45E+16	1.60E+17
		176.55		13.56	9.34E+16		-7.27E+16	4.63E+16
		273.65		12.66	1.19E+17		2.86E+16	5.91E+16
		340.57		48.50	3.26E+16		-1.26E+14	1.61E+16
		818.50		99.70	2.67E+16		-5.96E+15	1.32E+16

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	1048.07		79.60	3.79E+16	2.67E+16	-1.86E+15	1.87E+16
		1235.34		19.70	7.90E+16		-1.57E+16	3.83E+16
+	CS-137	661.65	*	85.12	1.05E+00	1.05E+00	9.23E+01	5.20E-01
	LA-138	788.74		34.00	1.54E+00	3.24E-01	-1.18E-01	7.58E-01
		1435.80		66.00	3.24E-01		5.86E-02	1.54E-01
+	CE-139	165.85	*	80.35	2.19E+01	2.19E+01	1.12E+02	1.09E+01
	BA-140	162.64		6.70	5.85E+17	2.49E+17	-7.55E+18	2.90E+17
		304.84		4.50	1.03E+18		-4.13E+15	5.09E+17
		423.70		3.20	2.05E+18		2.37E+18	1.02E+18
		437.55		2.00	3.36E+18		-1.01E+18	1.66E+18
		537.32		25.00	2.49E+17		-1.42E+17	1.23E+17
	LA-140	328.77		20.50	2.29E+17	3.29E+16	-4.37E+16	1.13E+17
		487.03		45.50	1.42E+17		-8.57E+16	7.03E+16
		815.85		23.50	3.41E+17		-7.15E+16	1.68E+17
		1596.49		95.49	3.29E+16		-9.28E+15	1.55E+16
	CE-141	145.44		48.40	3.05E+06	3.05E+06	1.68E+06	1.51E+06
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	1.45E+01	1.45E+01	-9.85E+01	7.18E+00
	PM-144	476.78		42.00	4.63E+00	1.82E+00	5.16E-01	2.29E+00
		618.01		98.60	1.82E+00		2.78E-01	8.99E-01
		696.49		99.49	1.85E+00		-3.41E-01	9.13E-01
	PM-145	36.85		21.70	3.94E+00	2.10E+00	3.96E+00	1.96E+00
		37.36		39.70	2.10E+00		1.14E+00	1.04E+00
		42.30		15.10	4.77E+00		-6.25E-01	2.37E+00
		72.40		2.31	1.85E+01		-4.72E+00	9.19E+00
	PM-146	453.90		39.94	1.55E+00	1.55E+00	-5.73E-01	7.68E-01
		735.90		14.01	4.49E+00		6.93E-01	2.22E+00
		747.13		13.10	4.77E+00		1.34E+00	2.35E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	2.55E+00	1.48E+00	5.05E+01	1.27E+00
		244.69		5.40	6.52E+00		-2.20E+00	3.23E+00
		344.27		19.13	1.94E+00		-1.16E-01	9.60E-01
		778.89		9.20	6.07E+00		-4.45E-01	3.00E+00
		964.01		10.40	7.43E+00		2.42E+00	3.67E+00
		1085.78		7.22	1.02E+01		-3.87E+00	5.01E+00
		1112.02		9.60	7.71E+00		-2.54E+00	3.80E+00
		1407.95		14.94	1.48E+00		-3.94E-02	6.99E-01
	GD-153	97.43		31.30	6.71E+00	6.71E+00	-1.33E+00	3.33E+00
		103.18		22.20	9.53E+00		3.87E+00	4.73E+00
	EU-154	123.07		40.50	1.36E+00	9.83E-01	2.69E+01	6.78E-01
		723.30		19.70	2.85E+00		8.70E-01	1.41E+00
		873.19		11.50	6.24E+00		-2.97E-01	3.08E+00
		996.32		10.30	7.36E+00		3.12E-01	3.63E+00
		1004.76		17.90	4.24E+00		1.92E-01	2.09E+00
		1274.45		35.50	9.83E-01		2.33E-01	4.75E-01
	EU-155	86.50		30.90	3.56E+00	1.66E+00	1.50E+02	1.78E+00
		105.30		20.70	1.66E+00		-6.65E-01	8.25E-01
	EU-156	811.77		10.40	1.50E+15	1.08E+15	1.06E+15	7.39E+14
		1153.47		7.20	2.06E+15		-1.07E+14	1.01E+15

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1230.71		8.90	1.08E+15	1.08E+15	3.68E+14	5.24E+14
	HO-166M	184.41		72.60	4.02E-01	4.02E-01	3.60E-01	2.00E-01
		280.45		29.60	1.07E+00		3.70E-02	5.31E-01
		410.94		11.10	3.96E+00		8.85E-01	1.96E+00
		711.69		54.10	8.72E-01		5.25E-01	4.30E-01
	TM-171	66.72		0.14	6.06E+02	6.06E+02	3.60E+02	3.01E+02
	HF-172	81.75		4.52	1.80E+01	4.85E+00	-3.71E+00	8.97E+00
		125.81		11.30	4.85E+00		-9.35E-01	2.40E+00
@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		810.06		16.63	1.00E+26		1.00E+26	1.00E+20
@		912.12		15.25	1.00E+26		1.00E+26	1.00E+20
@		1093.66		62.50	1.00E+26		1.00E+26	1.00E+20
	LU-173	100.72		5.24	1.37E+01	4.15E+00	8.44E+00	6.80E+00
		272.11		21.20	4.15E+00		1.14E+00	2.06E+00
	HF-175	343.40		84.00	5.44E+02	5.44E+02	-7.70E+01	2.69E+02
	LU-176	88.34		13.30	6.14E+00	3.41E-01	2.70E+02	3.06E+00
		201.83		86.00	3.54E-01		2.42E-01	1.76E-01
		306.78		94.00	3.41E-01		-1.20E-01	1.69E-01
	TA-182	67.75		41.20	8.39E+01	8.39E+01	2.00E+02	4.17E+01
		1121.30		34.90	1.44E+02		4.65E+01	7.11E+01
		1189.05		16.23	2.25E+02		-1.03E+02	1.10E+02
		1221.41		26.98	1.15E+02		7.34E+01	5.59E+01
		1231.02		11.44	2.48E+02		8.44E+01	1.20E+02
	IR-192	308.46		29.68	1.01E+03	9.51E+02	-3.73E+02	5.01E+02
		468.07		48.10	9.51E+02		6.71E+01	4.71E+02
	HG-203	279.19		77.30	2.10E+04	2.10E+04	-9.56E+01	1.04E+04
	BI-207	569.67		97.72	4.60E-01	4.60E-01	-1.95E-01	2.27E-01
		1063.62		74.90	8.90E-01		-1.10E-02	4.39E-01
+	TL-208	583.14	*	30.22	1.67E+00	1.22E-01	8.27E-01	8.26E-01
		860.37		4.48	1.33E+01		-4.32E+00	6.54E+00
		2614.66	*	35.85	1.22E-01		4.41E-01	4.06E-02
	BI-210M	262.00		45.00	7.05E-01	7.05E-01	3.93E-02	3.49E-01
		300.00		23.00	1.40E+00		3.01E-01	6.93E-01
	PB-210	46.50		4.25	1.76E+01	1.76E+01	-1.39E+02	8.75E+00
	PB-211	404.84		2.90	1.27E+01	1.27E+01	-2.19E+00	6.26E+00
		831.96		2.90	1.92E+01		-2.86E+00	9.49E+00
	BI-212	727.17		11.80	4.05E+00	4.05E+00	-1.45E+00	2.00E+00
		1620.62		2.75	7.54E+00		3.21E+00	3.55E+00
+	PB-212	238.63	*	44.60	8.89E-01	8.89E-01	5.91E-01	4.41E-01
		300.09		3.41	9.45E+00		2.03E+00	4.67E+00
	BI-214	609.31		46.30	9.94E-01	9.94E-01	9.13E-01	4.91E-01
		1120.29		15.10	4.11E+00		1.30E+00	2.02E+00
		1764.49		15.80	1.26E+00		2.93E-01	5.88E-01
		2204.22		4.98	4.02E+00		2.27E+00	1.87E+00
+	PB-214	295.21		19.19	1.69E+00	9.68E-01	2.13E-01	8.39E-01
		351.92	*	37.19	9.68E-01		6.18E-01	4.79E-01
	RN-219	401.80		6.50	5.68E+00	5.68E+00	7.78E-03	2.81E+00
	RA-223	323.87		3.88	8.42E+00	8.42E+00	5.82E-01	4.16E+00
	RA-224	240.98		3.95	8.36E+00	8.36E+00	6.16E+00	4.14E+00
	RA-225	40.00		31.00	1.44E+15	1.44E+15	-6.09E+15	7.13E+14
	RA-226	186.21		3.28	8.99E+00	8.99E+00	3.84E+00	4.46E+00
	TH-227	50.10		8.40	9.25E+00	2.85E+00	4.24E+01	4.61E+00
		236.00		11.50	2.85E+00		-4.72E-01	1.41E+00

Analysis Report for 1506043-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	256.20		6.30	5.06E+00	2.85E+00	2.01E+00	2.51E+00
	AC-228	338.32		11.40	2.92E+00	2.35E+00	3.85E-01	1.44E+00
		911.07		27.70	2.35E+00		-1.55E+00	1.16E+00
		969.11		16.60	4.05E+00		-9.21E-01	2.00E+00
	TH-230	48.44		16.90	4.60E+00	4.60E+00	1.32E+01	2.29E+00
		62.85		4.60	1.30E+01		-8.41E+02	6.47E+00
		67.67		0.37	1.13E+02		2.69E+02	5.62E+01
	PA-231	283.67		1.60	1.99E+01	1.40E+01	-3.95E+00	9.83E+00
		302.67		2.30	1.40E+01		2.80E+00	6.92E+00
	TH-231	25.64		14.70	7.10E+01	6.60E+00	-1.86E+03	3.54E+01
		84.21		6.40	6.60E+00		-7.46E+02	3.29E+00
	PA-233	311.98		38.60	1.15E+08	1.15E+08	2.81E+07	5.69E+07
	PA-234	131.20		20.40	1.24E+00	1.24E+00	4.76E-01	6.17E-01
		733.99		8.80	5.59E+00		1.09E+00	2.76E+00
		946.00		12.00	5.99E+00		-1.69E-01	2.96E+00
	PA-234M	1001.03		0.92	6.94E+01	6.94E+01	-4.21E+01	3.43E+01
	TH-234	63.29		3.80	1.08E+01	1.08E+01	-5.57E+02	5.39E+00
	U-235	143.76		10.50	2.45E+00	2.45E+00	3.21E-01	1.22E+00
		163.35		4.70	6.65E+00		1.54E+00	3.30E+00
		205.31		4.70	6.43E+00		4.30E-01	3.19E+00
	NP-237	86.50		12.60	6.60E+00	6.60E+00	2.78E+02	3.29E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.99E+00	3.99E+00	2.16E+02	1.99E+00
	AM-243	74.67		66.00	5.89E-01	5.89E-01	-3.77E-01	2.93E-01
	CM-243	209.75		3.29	9.86E+00	2.38E+00	-2.64E+00	4.89E+00
		228.14		10.60	3.28E+00		1.99E+00	1.62E+00
		277.60		14.00	2.38E+00		6.99E-01	1.18E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506043-01

GAS-1302

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1830

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	1	5	1216	2820	9602	74032	61419	7630
25:	27767	17296	2752	1193	1090	1007	1075	2213
33:	2180	1475	1102	1235	1473	1307	1268	1301
41:	1390	1724	1922	2118	2162	2458	2722	3335
49:	4594	5648	5337	5237	5288	5363	5424	5855
57:	6102	7101	19047	67133	15053	2552	2294	2214
65:	2064	2444	2594	2671	2757	2614	2566	2529
73:	2405	2508	2544	2531	2522	2596	2530	2523
81:	2565	2637	2762	2724	2873	3052	4360	27458
89:	24142	2418	1526	1464	1229	1252	1227	1202
97:	1204	1215	1195	1169	1201	1224	1255	1129
105:	1219	1165	1148	1262	1185	1210	1256	1179
113:	1277	1183	1261	1208	1286	1252	1249	1273
121:	1643	7437	6566	1314	1062	1057	986	1003
129:	1018	1033	1003	983	938	998	1041	1342
137:	1921	1173	968	961	908	930	901	987
145:	968	951	960	948	944	926	919	926
153:	935	937	965	873	896	886	879	865
161:	874	875	916	880	1106	2403	1571	913
169:	856	848	828	893	843	868	817	821
177:	811	812	868	876	859	836	903	941
185:	923	1016	923	916	966	908	918	929
193:	871	905	928	834	881	903	920	964
201:	947	899	858	947	853	881	894	875
209:	904	903	881	962	941	966	959	957
217:	958	937	957	993	953	1005	1001	997
225:	894	977	916	910	999	872	877	850
233:	873	844	903	847	872	912	953	865
241:	855	863	802	774	782	826	759	773
249:	777	791	707	744	764	761	724	773
257:	712	764	702	706	696	736	695	754
265:	695	708	664	745	670	685	716	711
273:	708	661	667	660	677	618	666	698
281:	609	665	630	671	638	624	646	670
289:	688	681	655	666	644	626	654	657
297:	615	630	598	585	627	630	605	556
305:	611	599	597	564	577	694	595	635
313:	575	558	596	636	626	596	619	609
321:	568	575	578	550	564	571	522	574
329:	538	577	548	530	584	574	545	567
337:	548	557	568	579	523	546	541	543
345:	559	555	548	570	558	558	597	611
353:	563	558	510	547	517	519	492	500
361:	529	497	564	537	559	562	552	569

369:	548	514	552	485	566	530	558	537

Sample Title: GAS-1302

Channel								
377:	534	565	503	523	553	507	518	560
385:	554	558	541	508	524	562	756	1171
393:	644	536	531	533	577	546	535	562
401:	539	514	508	542	528	528	503	547
409:	518	480	543	537	563	482	499	531
417:	516	490	497	520	517	513	530	522
425:	556	545	557	472	468	534	535	561
433:	569	599	557	522	505	521	501	571
441:	562	518	594	542	543	576	575	567
449:	555	530	523	532	547	561	563	536
457:	559	593	558	539	564	561	577	532
465:	534	576	562	543	561	548	540	581
473:	509	538	504	521	492	523	487	494
481:	460	488	485	421	471	394	432	457
489:	395	395	412	420	427	389	375	403
497:	402	411	421	388	410	435	400	383
505:	408	370	351	425	383	405	429	392
513:	403	435	383	350	344	386	392	357
521:	362	355	356	361	360	372	336	358
529:	357	399	364	388	377	374	326	362
537:	323	335	328	337	339	338	339	333
545:	350	334	343	357	332	357	322	359
553:	336	296	292	327	361	305	306	361
561:	318	323	333	339	340	292	285	321
569:	299	315	301	331	305	329	322	322
577:	311	305	293	305	331	325	351	332
585:	285	280	312	282	285	257	305	302
593:	303	306	340	294	313	304	298	305
601:	280	309	289	298	259	304	344	292
609:	324	327	294	324	291	294	287	282
617:	295	313	276	294	287	273	289	294
625:	327	322	301	286	273	292	300	294
633:	281	292	294	291	290	259	315	319
641:	321	304	303	329	311	301	265	290
649:	317	291	325	292	291	283	277	312
657:	309	294	441	1562	11458	17453	3894	565
665:	395	295	285	251	253	244	274	271
673:	244	247	258	261	272	281	248	250
681:	226	247	260	260	259	253	266	218
689:	253	274	254	280	256	248	253	245
697:	245	257	267	257	247	255	269	265
705:	251	274	267	272	260	282	272	260
713:	246	265	233	221	225	276	235	282
721:	268	252	276	263	259	240	252	254
729:	275	263	270	273	246	258	301	271
737:	268	261	259	255	254	252	255	259
745:	227	243	262	280	270	250	268	219
753:	275	251	256	259	244	244	266	280
761:	248	284	293	249	261	254	248	288
769:	270	265	271	237	262	259	279	265
777:	254	234	252	248	290	262	234	272
785:	266	297	279	273	265	293	251	238
793:	263	289	241	283	274	257	268	285

801:	305	265	266	266	293	290	253	271

Sample Title: GAS-1302

Channel								
809:	282	289	287	282	292	329	286	267
817:	288	283	287	299	312	324	288	304
825:	293	284	278	270	256	290	302	285
833:	293	263	297	293	305	293	278	286
841:	283	276	287	298	302	299	270	286
849:	311	283	291	311	284	275	307	321
857:	295	297	309	314	310	310	302	333
865:	300	298	344	321	295	315	298	312
873:	314	319	357	315	313	267	275	329
881:	300	280	341	312	306	340	347	330
889:	327	333	311	309	338	332	331	367
897:	534	767	543	339	336	333	368	359
905:	348	324	359	310	321	355	336	336
913:	348	346	359	381	358	360	335	353
921:	349	353	368	364	352	354	390	363
929:	364	366	370	372	396	394	392	358
937:	378	367	383	358	368	395	396	389
945:	385	408	370	392	362	404	378	394
953:	385	406	403	386	374	346	340	411
961:	388	360	375	363	324	309	345	318
969:	316	316	343	321	318	288	282	271
977:	290	323	324	287	285	302	305	309
985:	311	308	257	272	294	265	280	302
993:	286	275	287	299	297	294	274	293
1001:	272	240	306	261	286	300	294	300
1009:	280	285	270	274	288	277	275	267
1017:	258	254	285	271	260	286	254	254
1025:	251	252	265	275	249	260	269	277
1033:	272	306	266	284	272	275	270	287
1041:	253	239	255	252	266	260	253	254
1049:	264	258	226	277	238	249	285	269
1057:	226	250	225	266	262	228	247	251
1065:	282	262	230	269	245	265	246	258
1073:	268	254	277	242	265	253	255	256
1081:	272	274	231	273	280	261	288	238
1089:	261	250	295	293	275	314	266	280
1097:	259	283	234	265	291	268	250	276
1105:	288	267	274	284	249	259	265	258
1113:	259	262	245	264	249	223	206	231
1121:	218	207	190	191	165	159	178	192
1129:	150	171	154	171	168	163	143	165
1137:	187	153	167	152	162	149	158	160
1145:	172	166	154	153	151	166	138	152
1153:	153	146	130	167	149	153	144	154
1161:	136	157	137	142	138	149	150	130
1169:	152	201	955	6822	14886	7714	1145	291
1177:	208	138	98	116	98	108	118	107
1185:	123	97	94	90	108	92	97	113
1193:	115	86	93	86	75	74	88	73
1201:	78	85	81	93	84	76	73	73
1209:	68	79	87	78	80	69	82	65
1217:	52	70	72	68	67	67	70	60
1225:	57	59	56	59	60	64	49	44

1233:	52	62	47	46	46	58	55	67

Sample Title: GAS-1302

Channel								
1241:	54	45	50	65	39	41	51	46
1249:	45	34	48	35	49	37	31	50
1257:	50	39	31	46	41	38	43	43
1265:	25	34	41	43	34	37	38	59
1273:	39	32	34	39	37	39	37	24
1281:	44	32	34	48	37	32	39	38
1289:	42	39	21	34	19	43	34	46
1297:	33	48	32	39	38	29	43	33
1305:	44	33	45	29	41	36	34	40
1313:	38	43	37	30	28	41	41	40
1321:	42	43	40	38	50	57	60	54
1329:	101	637	4728	12532	8788	1594	263	118
1337:	44	23	37	30	26	33	33	21
1345:	28	26	31	20	21	16	26	32
1353:	26	26	24	16	28	19	19	23
1361:	21	31	20	27	20	16	18	16
1369:	22	19	18	25	12	14	12	17
1377:	22	21	18	13	29	19	13	25
1385:	19	22	18	21	12	26	21	24
1393:	17	25	16	13	22	22	19	19
1401:	19	20	13	19	9	12	20	19
1409:	13	15	15	16	12	17	18	14
1417:	16	28	15	23	25	19	19	14
1425:	20	21	14	16	14	25	14	17
1433:	24	17	10	15	12	19	19	13
1441:	17	20	13	18	16	18	16	20
1449:	12	15	12	21	17	10	16	14
1457:	17	17	24	25	22	16	16	16
1465:	20	11	14	17	12	18	8	19
1473:	18	16	19	8	17	15	13	8
1481:	13	9	13	12	7	17	12	15
1489:	12	17	35	17	13	13	22	15
1497:	21	13	15	16	11	17	15	15
1505:	17	16	19	19	17	20	9	15
1513:	16	13	13	24	18	16	13	18
1521:	9	17	17	12	16	7	14	12
1529:	14	16	22	12	11	11	14	15
1537:	13	12	11	13	26	22	20	16
1545:	17	18	17	16	10	23	14	13
1553:	19	14	14	11	10	16	16	15
1561:	21	12	14	18	18	13	18	17
1569:	11	13	15	16	19	23	16	13
1577:	19	16	13	14	17	16	12	12
1585:	19	10	18	9	14	12	14	20
1593:	14	9	18	14	16	13	19	19
1601:	14	14	16	12	15	12	12	15
1609:	18	14	13	17	12	19	10	8
1617:	12	16	12	11	13	12	15	10
1625:	12	15	23	11	8	16	12	10
1633:	11	12	19	11	12	16	9	7
1641:	4	10	9	6	16	2	11	13
1649:	11	2	14	16	13	10	10	8
1657:	15	16	9	11	12	14	10	16

1665:	9	12	15	7	16	10	11	12

Sample Title: GAS-1302

Channel								
1673:	8	13	10	11	13	7	14	14
1681:	6	13	13	5	11	10	13	16
1689:	13	11	11	16	9	14	15	9
1697:	11	12	20	6	12	9	12	13
1705:	12	8	5	11	11	6	12	7
1713:	6	7	7	10	16	11	8	7
1721:	13	5	9	11	14	12	10	12
1729:	6	9	7	11	6	12	9	10
1737:	14	16	9	15	12	12	8	12
1745:	6	5	6	10	7	11	10	14
1753:	10	7	14	9	8	4	11	9
1761:	9	11	11	12	10	12	9	11
1769:	6	7	6	14	11	7	9	9
1777:	11	13	9	8	3	8	10	11
1785:	11	9	9	10	11	10	7	12
1793:	11	17	4	8	9	6	9	9
1801:	3	7	12	5	8	11	12	11
1809:	11	13	8	8	7	15	5	7
1817:	10	10	11	7	7	8	10	5
1825:	9	11	8	14	11	7	11	9
1833:	20	89	204	196	66	13	9	10
1841:	4	9	6	7	8	3	8	7
1849:	4	12	13	8	7	4	8	11
1857:	7	13	5	9	12	13	9	8
1865:	3	14	9	4	10	7	8	8
1873:	6	3	9	8	7	9	7	6
1881:	12	4	13	8	11	8	6	8
1889:	5	10	7	12	8	5	8	7
1897:	12	8	5	8	7	6	10	10
1905:	12	4	9	11	9	9	8	3
1913:	8	8	10	6	9	15	4	11
1921:	3	6	5	9	10	11	4	9
1929:	7	4	10	12	10	6	10	8
1937:	1	3	7	5	13	8	8	8
1945:	1	7	8	12	7	5	7	7
1953:	12	5	4	10	9	0	3	10
1961:	7	5	7	15	2	5	5	8
1969:	8	8	9	8	7	6	10	6
1977:	18	7	10	4	10	7	3	7
1985:	6	7	9	7	7	2	7	17
1993:	2	13	12	9	3	7	8	5
2001:	4	6	11	5	10	3	6	8
2009:	15	5	4	4	4	7	3	5
2017:	11	5	10	5	7	13	9	5
2025:	4	7	7	14	8	13	5	4
2033:	12	7	7	6	7	8	6	10
2041:	10	5	14	9	4	9	8	8
2049:	9	3	5	6	2	5	12	8
2057:	8	9	6	6	5	9	4	6
2065:	7	7	2	8	11	7	6	5
2073:	5	5	8	2	6	5	4	4
2081:	3	5	3	7	3	5	4	8
2089:	9	6	7	13	4	9	1	7

2097:	8	8	4	7	4	10	5	9

Sample Title: GAS-1302

Channel								
2105:	4	8	4	3	4	10	8	5
2113:	10	5	3	5	4	6	3	6
2121:	5	10	6	5	8	7	4	9
2129:	8	8	8	7	7	4	5	9
2137:	10	7	3	8	5	5	5	7
2145:	4	4	4	6	10	4	7	2
2153:	7	5	2	2	1	6	6	9
2161:	10	8	8	6	6	5	6	4
2169:	6	6	5	5	3	7	6	5
2177:	3	6	6	5	3	2	3	4
2185:	8	8	3	2	9	9	3	5
2193:	5	5	4	5	4	3	6	7
2201:	5	4	6	13	2	10	6	7
2209:	3	5	10	4	10	10	11	11
2217:	3	11	7	6	6	7	8	3
2225:	6	8	5	4	7	8	4	5
2233:	8	9	4	8	5	5	10	2
2241:	6	8	8	6	7	8	5	6
2249:	6	11	6	9	10	6	6	4
2257:	1	5	8	10	7	6	10	8
2265:	9	3	8	8	7	4	9	9
2273:	11	10	14	3	12	8	10	5
2281:	6	8	4	10	5	9	11	8
2289:	5	3	4	4	8	8	7	4
2297:	6	7	8	1	4	3	4	5
2305:	3	4	4	2	5	4	0	7
2313:	4	3	2	4	3	3	7	5
2321:	6	3	6	4	6	1	3	3
2329:	9	5	1	1	5	6	6	4
2337:	3	8	5	5	3	5	2	5
2345:	6	1	3	3	6	4	1	3
2353:	2	4	4	3	2	1	2	0
2361:	5	3	3	1	4	0	5	2
2369:	4	1	1	0	1	6	2	2
2377:	3	6	2	0	3	2	3	3
2385:	4	3	2	1	0	1	3	0
2393:	0	1	0	4	4	3	4	0
2401:	1	1	1	5	2	0	0	0
2409:	3	2	1	1	3	3	0	0
2417:	4	1	0	2	1	4	0	1
2425:	2	2	1	1	1	1	2	0
2433:	2	1	1	1	1	1	0	0
2441:	1	3	1	1	1	0	3	3
2449:	1	0	1	0	1	1	1	0
2457:	1	1	0	0	0	2	1	0
2465:	0	0	1	2	1	1	1	2
2473:	0	0	0	0	0	4	1	3
2481:	0	1	2	2	0	1	0	3
2489:	2	0	3	2	0	0	0	2
2497:	0	0	0	0	4	8	38	120
2505:	121	50	16	3	2	1	0	1
2513:	0	0	0	0	0	0	0	1
2521:	0	1	1	0	0	0	0	0

2529:	0	0	0	0	0	1	1	1

Sample Title: GAS-1302

Channel								
2537:	0	0	0	0	0	0	1	0
2545:	0	0	0	1	0	1	1	0
2553:	0	1	0	0	0	0	0	0
2561:	0	0	0	0	0	1	0	0
2569:	1	1	0	1	0	0	0	0
2577:	0	0	0	0	0	1	1	0
2585:	0	0	0	0	0	1	1	0
2593:	1	1	0	1	0	0	0	0
2601:	1	0	0	0	0	1	0	0
2609:	0	0	0	7	10	8	7	0
2617:	0	1	0	0	0	0	0	0
2625:	0	0	0	0	0	0	0	0
2633:	0	0	0	0	0	1	0	0
2641:	0	1	0	0	0	0	0	0
2649:	0	0	0	0	0	0	0	1
2657:	3	0	0	0	0	0	0	1
2665:	1	0	0	0	0	0	0	0
2673:	0	1	0	0	0	0	0	2
2681:	0	0	0	0	0	0	0	0
2689:	1	0	0	0	0	0	0	0
2697:	0	0	0	0	0	1	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	1
2721:	0	0	1	0	0	0	0	0
2729:	1	1	1	0	4	2	0	0
2737:	0	1	0	0	1	0	0	1
2745:	0	0	0	0	0	0	0	0
2753:	0	0	1	0	1	0	0	0
2761:	0	0	0	0	1	0	0	1
2769:	0	1	0	0	0	0	0	0
2777:	0	0	0	0	0	0	0	0
2785:	0	1	0	0	0	1	0	0
2793:	0	0	1	0	0	0	0	1
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	1	0	0	0
2817:	0	0	0	1	0	0	0	0
2825:	1	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	1	0
2841:	0	0	0	0	0	0	0	1
2849:	0	0	0	0	0	0	1	0
2857:	0	0	0	0	0	0	0	0
2865:	1	1	0	1	0	1	0	0
2873:	0	0	0	0	0	0	0	1
2881:	0	0	0	0	0	2	0	1
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	1	0	0	0	0	0
2921:	1	0	0	0	0	0	1	0
2929:	0	0	0	0	0	0	0	0
2937:	1	0	0	0	0	0	0	0
2945:	0	0	0	0	1	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
2969:	0	0	0	1	0	0	0	0
2977:	0	0	0	0	1	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	1	0	0	0
3009:	0	0	0	0	0	0	1	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	1	0	0	0	0	0
3033:	1	1	0	0	1	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	1	0	1
3057:	0	0	0	1	0	0	1	0
3065:	0	0	0	1	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	1	0	1
3089:	0	0	0	0	0	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	1	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	1	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	1	0	0	0
3185:	0	0	0	0	0	2	0	0
3193:	0	0	1	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	1	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	1	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	1
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	0	0	0	0	1	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	1
3329:	0	0	0	0	0	1	0	0
3337:	0	0	0	0	0	0	0	1
3345:	0	0	0	0	0	0	0	1
3353:	0	0	0	1	0	0	0	0
3361:	0	0	0	0	1	0	0	0
3369:	0	0	0	0	0	0	0	1
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	1

3393:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

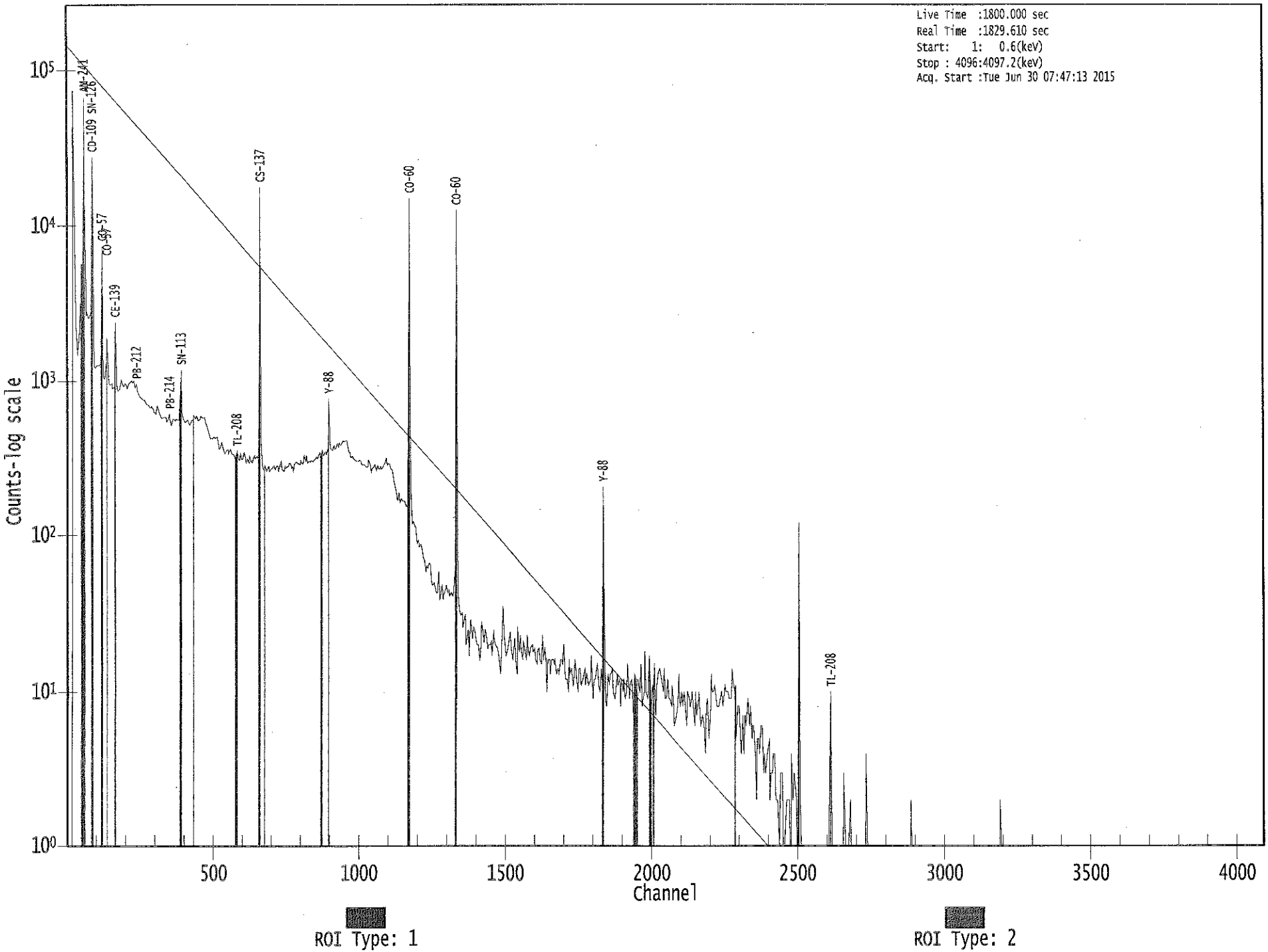
Channel								
3401:	0	0	0	0	1	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	1	0	0	1	0	0
3425:	0	0	1	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	1	0	0	0	1	0
3449:	0	0	0	1	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	1	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	1	0	0	0	0	0	0	1
3545:	0	0	0	0	0	1	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	1	0	0	0
3585:	0	0	0	0	1	0	0	0
3593:	0	0	0	0	1	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	1	0	1	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	1	0	1
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	1	0	0	0	0	0	0
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	1	0
3737:	0	0	0	0	1	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	1	0	0	0	0	0	0	0
3769:	0	0	0	1	0	0	0	0
3777:	0	0	0	0	0	0	0	1
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	1	0

3825:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	1	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	1	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	1	0	0	0	0	0
3873:	0	1	1	0	0	0	0	0
3881:	0	0	0	1	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	1	0	0
3905:	0	0	0	1	0	0	1	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	1	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	1	1	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	1	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	1	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	1	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	2	0	0	0

0000023891.CNF



Apex-Gamma

Analysis Report for 1506043-02
BLANK

6/30

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 6/30/2015 7:10:25AM
Acquisition Started	: 6/30/2015 8:12:57AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23892

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/6/15

Analysis Report for 1506043-02

BLANK

PEAK LOCATE REPORT

Peak Locate Performed on : 6/30/2015 9:13:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	128.48	128.54	0.0000	0.00
2	279.70	279.67	0.0000	0.00
3	371.02	370.95	0.0000	0.00
4	389.47	389.39	0.0000	0.00
5	555.40	555.24	0.0000	0.00
6	627.73	627.53	0.0000	0.00
7	745.34	745.08	0.0000	0.00
8	818.32	818.04	0.0000	0.00
9	830.54	830.25	0.0000	0.00
10	855.95	855.64	0.0000	0.00
11	898.73	898.41	0.0000	0.00
12	1023.03	1022.66	0.0000	0.00
13	1075.04	1074.65	0.0000	0.00
14	1078.83	1078.43	0.0000	0.00
15	1127.27	1126.86	0.0000	0.00
16	1194.80	1194.36	0.0000	0.00
17	1365.00	1364.51	0.0000	0.00
18	1461.50	1460.98	0.0000	0.00
19	1633.32	1632.75	0.0000	0.00
20	1766.11	1765.50	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-02

BLANK

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/30/2015 9:13:00AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	128.48	124 -	132	128.54	4.10E+01	39.90	2.18E+02	2.88
	2	279.70	277 -	282	279.67	1.80E+01	18.49	5.40E+01	1.94
	3	371.02	369 -	373	370.95	2.03E+01	15.75	3.34E+01	2.44
	4	389.47	387 -	391	389.39	1.64E+01	15.82	3.92E+01	1.87
	5	555.40	553 -	557	555.24	9.29E+00	11.84	2.34E+01	1.00
	6	627.73	620 -	637	627.53	3.84E+01	23.49	3.73E+01	8.79
	7	745.34	742 -	750	745.08	1.60E+01	13.60	2.00E+01	2.53
	8	818.32	809 -	826	818.04	2.48E+01	24.35	4.44E+01	11.02
	9	830.54	827 -	833	830.25	1.00E+01	10.82	1.40E+01	2.52
	10	855.95	852 -	858	855.64	9.75E+00	10.63	1.25E+01	1.22
	11	898.73	895 -	901	898.41	9.50E+00	12.39	2.10E+01	1.34
	12	1023.03	1020 -	1025	1022.66	7.72E+00	6.71	2.56E+00	1.98
M	13	1075.04	1071 -	1082	1074.65	1.48E+01	12.49	1.60E+01	2.75
m	14	1078.83	1071 -	1082	1078.43	1.07E+01	13.27	1.60E+01	2.50
	15	1127.27	1124 -	1128	1126.86	5.93E+00	5.85	2.14E+00	1.06
	16	1194.80	1190 -	1198	1194.36	1.20E+01	8.73	4.07E+00	6.40
	17	1365.00	1361 -	1367	1364.51	5.67E+00	7.78	6.67E+00	1.75
	18	1461.50	1457 -	1465	1460.98	2.15E+01	12.02	9.00E+00	1.75
	19	1633.32	1629 -	1636	1632.75	8.00E+00	5.66	0.00E+00	2.22
	20	1766.11	1762 -	1768	1765.50	8.00E+00	5.66	0.00E+00	3.88

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 6/30/2015 9:13:00AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1506043-02

BLANK

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	128.48	124 -	132	4.10E+01	39.90	2.18E+02	3.11E+01
	2	279.70	277 -	282	1.80E+01	18.49	5.40E+01	1.35E+01
	3	371.02	369 -	373	2.03E+01	15.75	3.34E+01	1.06E+01
	4	389.47	387 -	391	1.64E+01	15.82	3.92E+01	1.12E+01
	5	555.40	553 -	557	9.29E+00	11.84	2.34E+01	8.35E+00
	6	627.73	620 -	637	3.84E+01	23.49	3.73E+01	1.64E+01
	7	745.34	742 -	750	1.60E+01	13.60	2.00E+01	9.04E+00
	8	818.32	809 -	826	2.48E+01	24.35	4.44E+01	1.83E+01
	9	830.54	827 -	833	1.00E+01	10.82	1.40E+01	7.21E+00
	10	855.95	852 -	858	9.75E+00	10.63	1.25E+01	7.07E+00
	11	898.73	895 -	901	9.50E+00	12.39	2.10E+01	8.83E+00
	12	1023.03	1020 -	1025	7.72E+00	6.71	2.56E+00	3.09E+00
M	13	1075.04	1071 -	1082	1.48E+01	12.49	1.60E+01	6.58E+00
m	14	1078.83	1071 -	1082	1.07E+01	13.27	1.60E+01	6.58E+00
	15	1127.27	1124 -	1128	5.93E+00	5.85	2.14E+00	2.67E+00
	16	1194.80	1190 -	1198	1.20E+01	8.73	4.07E+00	4.38E+00
	17	1365.00	1361 -	1367	5.67E+00	7.78	6.67E+00	5.06E+00
	18	1461.50	1457 -	1465	2.15E+01	12.02	9.00E+00	6.29E+00
	19	1633.32	1629 -	1636	8.00E+00	5.66	0.00E+00	0.00E+00
	20	1766.11	1762 -	1768	8.00E+00	5.66	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 6/30/2015 9:13:00AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	128.48	124 -	132	128.54	4.10E+01	39.90	2.18E+02	.....
2	279.70	277 -	282	279.67	1.80E+01	18.49	5.40E+01	SE-75 HG-203

Analysis Report for 1506043-02

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	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									HO-166M
	3	371.02	369 -	373	370.95	2.03E+01	15.75	3.34E+01	.....
	4	389.47	387 -	391	389.39	1.64E+01	15.82	3.92E+01	.....
	5	555.40	553 -	557	555.24	9.29E+00	11.84	2.34E+01	.....
	6	627.73	620 -	637	627.53	3.84E+01	23.49	3.73E+01	.....
	7	745.34	742 -	750	745.08	1.60E+01	13.60	2.00E+01	.....
	8	818.32	809 -	826	818.04	2.48E+01	24.35	4.44E+01	CS-136
	9	830.54	827 -	833	830.25	1.00E+01	10.82	1.40E+01	.....
	10	855.95	852 -	858	855.64	9.75E+00	10.63	1.25E+01	.....
	11	898.73	895 -	901	898.41	9.50E+00	12.39	2.10E+01	Y-88
	12	1023.03	1020 -	1025	1022.66	7.72E+00	6.71	2.56E+00	.....
M	13	1075.04	1071 -	1082	1074.65	1.48E+01	12.49	1.60E+01	.....
m	14	1078.83	1071 -	1082	1078.43	1.07E+01	13.27	1.60E+01	.....
	15	1127.27	1124 -	1128	1126.86	5.93E+00	5.85	2.14E+00	.....
	16	1194.80	1190 -	1198	1194.36	1.20E+01	8.73	4.07E+00	.....
	17	1365.00	1361 -	1367	1364.51	5.67E+00	7.78	6.67E+00	.....
	18	1461.50	1457 -	1465	1460.98	2.15E+01	12.02	9.00E+00	K-40
	19	1633.32	1629 -	1636	1632.75	8.00E+00	5.66	0.00E+00	.....
	20	1766.11	1762 -	1768	1765.50	8.00E+00	5.66	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 6/30/2015 9:13:00AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	128.48	4.10E+01	39.90	2.61E-02	2.80E-03
2	279.70	1.80E+01	18.49	1.60E-02	1.55E-03
3	371.02	2.03E+01	15.75	1.32E-02	1.12E-03
4	389.47	1.64E+01	15.82	1.28E-02	1.03E-03
5	555.40	9.29E+00	11.84	9.94E-03	8.53E-04
6	627.73	3.84E+01	23.49	9.06E-03	7.80E-04
7	745.34	1.60E+01	13.60	7.93E-03	6.91E-04
8	818.32	2.48E+01	24.35	7.36E-03	6.45E-04
9	830.54	1.00E+01	10.82	7.27E-03	6.37E-04
10	855.95	9.75E+00	10.63	7.10E-03	6.20E-04
11	898.73	9.50E+00	12.39	6.82E-03	5.93E-04

Analysis Report for 1506043-02

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	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	12	1023.03	7.72E+00	6.71	6.14E-03	5.29E-04
M	13	1075.04	1.48E+01	12.49	5.90E-03	5.03E-04
m	14	1078.83	1.07E+01	13.27	5.88E-03	5.01E-04
	15	1127.27	5.93E+00	5.85	5.68E-03	4.76E-04
	16	1194.80	1.20E+01	8.73	5.42E-03	4.63E-04
	17	1365.00	5.67E+00	7.78	4.90E-03	5.13E-04
	18	1461.50	2.15E+01	12.02	4.67E-03	4.73E-04
	19	1633.32	8.00E+00	5.66	4.36E-03	4.02E-04
	20	1766.11	8.00E+00	5.66	4.18E-03	3.47E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 6/30/2015 9:13:00AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023401.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	128.48	4.10E+01	39.90			4.10E+01	3.99E+01
	2	279.70	1.80E+01	18.49			1.80E+01	1.85E+01
	3	371.02	2.03E+01	15.75			2.03E+01	1.57E+01
	4	389.47	1.64E+01	15.82			1.64E+01	1.58E+01
	5	555.40	9.29E+00	11.84			9.29E+00	1.18E+01
	6	627.73	3.84E+01	23.49			3.84E+01	2.35E+01
	7	745.34	1.60E+01	13.60			1.60E+01	1.36E+01
	8	818.32	2.48E+01	24.35			2.48E+01	2.44E+01
	9	830.54	1.00E+01	10.82			1.00E+01	1.08E+01
	10	855.95	9.75E+00	10.63			9.75E+00	1.06E+01
	11	898.73	9.50E+00	12.39			9.50E+00	1.24E+01
	12	1023.03	7.72E+00	6.71			7.72E+00	6.71E+00
M	13	1075.04	1.48E+01	12.49			1.48E+01	1.25E+01
m	14	1078.83	1.07E+01	13.27			1.07E+01	1.33E+01
	15	1127.27	5.93E+00	5.85			5.93E+00	5.85E+00
	16	1194.80	1.20E+01	8.73			1.20E+01	8.73E+00
	17	1365.00	5.67E+00	7.78			5.67E+00	7.78E+00
	18	1461.50	2.15E+01	12.02	1.17E+01	2.72E+00	9.83E+00	1.23E+01
	19	1633.32	8.00E+00	5.66			8.00E+00	5.66E+00
	20	1766.11	8.00E+00	5.66			8.00E+00	5.66E+00

Analysis Report for 1506043-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 6/30/2015 9:13:00AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023401.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	128.48	4.10E+01	39.90			4.10E+01	3.99E+01
	2	279.70	1.80E+01	18.49			1.80E+01	1.85E+01
	3	371.02	2.03E+01	15.75			2.03E+01	1.57E+01
	4	389.47	1.64E+01	15.82			1.64E+01	1.58E+01
	5	555.40	9.29E+00	11.84			9.29E+00	1.18E+01
	6	627.73	3.84E+01	23.49			3.84E+01	2.35E+01
	7	745.34	1.60E+01	13.60			1.60E+01	1.36E+01
	8	818.32	2.48E+01	24.35			2.48E+01	2.44E+01
	9	830.54	1.00E+01	10.82			1.00E+01	1.08E+01
	10	855.95	9.75E+00	10.63			9.75E+00	1.06E+01
	11	898.73	9.50E+00	12.39			9.50E+00	1.24E+01
	12	1023.03	7.72E+00	6.71			7.72E+00	6.71E+00
M	13	1075.04	1.48E+01	12.49			1.48E+01	1.25E+01
m	14	1078.83	1.07E+01	13.27			1.07E+01	1.33E+01
	15	1127.27	5.93E+00	5.85			5.93E+00	5.85E+00
	16	1194.80	1.20E+01	8.73			1.20E+01	8.73E+00
	17	1365.00	5.67E+00	7.78			5.67E+00	7.78E+00
	18	1461.50	2.15E+01	12.02	1.17E+01	2.72E+00	9.83E+00	1.23E+01
	19	1633.32	8.00E+00	5.66			8.00E+00	5.66E+00
	20	1766.11	8.00E+00	5.66			8.00E+00	5.66E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-02

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NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.926	1460.81	*	10.67	1.89E-01	2.38E-01
HG-203	0.959	279.19	*	77.30	1.39E-02	1.44E-02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/30/2015 9:13:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	128.48	1.13843E-02	48.68		
	3	371.02	5.63814E-03	38.79		
	4	389.47	4.55633E-03	48.22		
	5	555.40	2.57937E-03	63.77		
	6	627.73	1.06530E-02	30.63		
	7	745.34	4.44444E-03	42.50		
	8	818.32	6.88830E-03	49.10	Tol.	CS-136
	9	830.54	2.77778E-03	54.08		
	10	855.95	2.70833E-03	54.51		
	11	898.73	2.63889E-03	65.21	Tol.	Y-88
	12	1023.03	2.14506E-03	43.43		
M	13	1075.04	4.12385E-03	42.07		
m	14	1078.83	2.97234E-03	61.99		
	15	1127.27	1.64683E-03	49.36		
	16	1194.80	3.32341E-03	36.49		

Analysis Report for 1506043-02

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
17	1365.00	1.57407E-03	68.63		
19	1633.32	2.22222E-03	35.36		
20	1766.11	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.92	1460.81	*	10.67	1.89E-01	2.38E-01
HG-203	0.95	279.19	*	77.30	1.39E-02	1.44E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1506043-02

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.926	1.89E-01	2.38E-01	
HG-203	0.959	1.39E-02	1.44E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 6/30/2015 9:13:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	128.48	1.13843E-02	48.68		
	3	371.02	5.63814E-03	38.79		
	4	389.47	4.55633E-03	48.22		
	5	555.40	2.57937E-03	63.77		
	6	627.73	1.06530E-02	30.63		
	7	745.34	4.44444E-03	42.50		
	8	818.32	6.88830E-03	49.10	Tol.	CS-136
	9	830.54	2.77778E-03	54.08		
	10	855.95	2.70833E-03	54.51		
	11	898.73	2.63889E-03	65.21	Tol.	Y-88
	12	1023.03	2.14506E-03	43.43		
M	13	1075.04	4.12385E-03	42.07		
m	14	1078.83	2.97234E-03	61.99		
	15	1127.27	1.64683E-03	49.36		
	16	1194.80	3.32341E-03	36.49		
	17	1365.00	1.57407E-03	68.63		
	19	1633.32	2.22222E-03	35.36		
	20	1766.11	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)

Analysis Report for 1506043-02

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+	BE-7	477.59		10.42	-5.33E-02	1.86E-01	1.86E-01
+	NA-22	1274.54		99.94	1.02E-02	3.10E-02	3.10E-02
+	NA-24	1368.53		99.99	7.19E-03	1.82E-02	3.96E-02
		2754.09		99.86	-3.30E-03		1.82E-02
+	AL-26	1808.65		99.76	3.35E-03	3.87E-02	3.87E-02
+	K-40	1460.81	*	10.67	1.89E-01	3.88E-01	3.88E-01
+	AR-41	1293.64		99.16	-7.52E-03	5.64E-02	5.64E-02
+	TI-44	67.88		94.40	-4.79E-03	1.22E-02	1.22E-02
		78.34		96.00	4.33E-03		1.43E-02
+	SC-46	889.25		99.98	-1.08E-02	2.43E-02	2.43E-02
		1120.51		99.99	5.77E-03		2.53E-02
+	V-48	983.52		99.98	-1.35E-02	2.53E-02	2.53E-02
		1312.10		97.50	-1.30E-02		2.76E-02
+	CR-51	320.08		9.83	2.00E-02	2.09E-01	2.09E-01
+	MN-54	834.83		99.97	-1.22E-02	2.31E-02	2.31E-02
+	CO-56	846.75		99.96	1.15E-03	2.70E-02	2.70E-02
		1037.75		14.03	2.40E-02		2.33E-01
		1238.25		67.00	1.36E-03		4.31E-02
		1771.40		15.51	2.66E-02		2.22E-01
		2598.48		16.90	0.00E+00		3.80E-02
+	CO-57	122.06		85.51	9.57E-03	2.01E-02	2.01E-02
		136.48		10.60	-1.46E-01		1.48E-01
+	CO-58	810.76		99.40	-3.90E-03	2.53E-02	2.53E-02
+	FE-59	1099.22		56.50	6.99E-03	5.71E-02	5.71E-02
		1291.56		43.20	2.04E-02		7.58E-02
+	CO-60	1173.22		100.00	1.05E-02	2.89E-02	3.16E-02
		1332.49		100.00	-4.25E-03		2.89E-02
+	ZN-65	1115.52		50.75	-1.32E-02	5.75E-02	5.75E-02
+	GA-67	93.31		35.70	4.67E-02	5.79E-02	5.79E-02
		208.95		2.24	-2.49E-01		7.98E-01
		300.22		16.00	9.46E-02		1.39E-01
+	SE-75	121.11		16.70	2.17E-02	2.73E-02	1.01E-01
		136.00		59.20	-1.37E-03		2.73E-02
		264.65		59.80	1.11E-02		3.61E-02
		279.53		25.20	7.15E-02		7.79E-02
		400.65		11.40	8.16E-02		2.13E-01
+	RB-82	776.52		13.00	8.66E-02	2.41E-01	2.41E-01
+	RB-83	520.41		46.00	-7.80E-03	4.70E-02	4.70E-02
		529.64		30.30	-3.14E-02		6.37E-02
		552.65		16.40	-1.69E-02		1.22E-01
+	KR-85	513.99		0.43	3.71E+00	7.94E+00	7.94E+00
+	SR-85	513.99		99.27	1.62E-02	3.48E-02	3.48E-02
+	Y-88	898.02		93.40	6.20E-03	2.18E-02	3.54E-02
		1836.01		99.38	7.82E-04		2.18E-02
+	NB-93M	16.57		9.43	-1.74E+03	3.03E+03	3.03E+03
+	NB-94	702.63		100.00	-5.77E-03	2.71E-02	2.71E-02
		871.10		100.00	1.88E-02		3.29E-02
+	NB-95	765.79		99.81	5.22E-03	2.98E-02	2.98E-02
+	NB-95M	235.69		25.00	-9.96E-02	8.34E-02	8.34E-02
+	ZR-95	724.18		43.70	3.08E-02	5.85E-02	7.74E-02
		756.72		55.30	6.34E-03		5.85E-02

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	MO-99	181.06	6.20	2.84E-02	1.98E-01	2.75E-01
		739.58	12.80	1.08E-02		1.98E-01
		778.00	4.50	2.45E-02		6.49E-01
+	RU-103	497.08	89.00	2.53E-03	2.30E-02	2.30E-02
+	RU-106	621.84	9.80	5.70E-02	2.63E-01	2.63E-01
+	AG-108M	433.93	89.90	3.87E-03	2.45E-02	2.45E-02
		614.37	90.40	-2.61E-03		3.82E-02
		722.95	90.50	9.44E-03		3.73E-02
+	CD-109	88.03	3.72	1.56E-01	4.31E-01	4.31E-01
+	AG-110M	657.75	93.14	-4.45E-03	3.22E-02	3.22E-02
		677.61	10.53	1.85E-02		2.45E-01
		706.67	16.46	-4.72E-02		1.46E-01
		763.93	21.98	-6.11E-02		1.16E-01
		884.67	71.63	4.97E-03		4.01E-02
		1384.27	23.94	-3.63E-02		1.08E-01
+	CD-113M	263.70	0.02	-2.36E+01	9.12E+01	9.12E+01
+	SN-113	255.12	1.93	4.43E-01	2.96E-02	1.05E+00
		391.69	64.90	-4.64E-04		2.96E-02
+	TE123M	159.00	84.10	5.66E-03	2.27E-02	2.27E-02
+	SB-124	602.71	97.87	-6.85E-03	2.82E-02	2.82E-02
		645.85	7.26	3.66E-02		3.65E-01
		722.78	11.10	7.70E-02		3.04E-01
		1691.02	49.00	7.63E-04		4.93E-02
+	I-125	35.49	6.49	1.22E-01	2.06E+00	2.06E+00
+	SB-125	176.33	6.89	3.07E-02	8.13E-02	2.23E-01
		427.89	29.33	5.05E-02		8.13E-02
		463.38	10.35	-1.15E-02		2.04E-01
		600.56	17.80	2.64E-02		1.64E-01
		635.90	11.32	-1.98E-02		2.17E-01
+	SB-126	414.70	83.30	-3.50E-03	2.36E-02	2.36E-02
		666.33	99.60	-1.61E-02		2.56E-02
		695.00	99.60	1.28E-02		3.34E-02
		720.50	53.80	-1.05E-02		6.00E-02
+	SN-126	87.57	37.00	1.57E-02	4.34E-02	4.34E-02
+	SB-127	473.00	25.00	-5.90E-03	8.17E-02	8.17E-02
		685.20	35.70	4.03E-02		8.32E-02
		783.80	14.70	-5.63E-02		1.57E-01
+	I-129	29.78	57.00	-7.89E-04	6.32E-01	6.32E-01
		33.60	13.20	-2.02E-01		1.33E+00
		39.58	7.52	-6.03E-01		1.09E+00
+	I-131	284.30	6.05	6.18E-02	2.53E-02	3.19E-01
		364.48	81.20	-1.47E-02		2.53E-02
		636.97	7.26	-6.20E-02		3.32E-01
		722.89	1.80	4.77E-01		1.89E+00
+	TE-132	49.72	13.10	4.40E-02	2.23E-02	3.09E-01
		228.16	88.00	-1.55E-03		2.23E-02
+	BA-133	81.00	33.00	1.04E-03	3.55E-02	3.86E-02
		302.84	17.80	-1.03E-02		1.10E-01
		356.01	60.00	-3.72E-03		3.55E-02

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-133	529.87	86.30	-4.68E-03	2.49E-02	2.49E-02
+	CS-134	563.23	8.38	7.04E-02	2.88E-02	3.13E-01
		569.32	15.43	-1.66E-03		1.65E-01
		604.70	97.60	-4.24E-02		2.88E-02
		795.84	85.40	6.21E-03		3.09E-02
		801.93	8.73	5.32E-02		3.13E-01
+	CS-135	268.24	16.00	-6.54E-02	1.30E-01	1.30E-01
+	I-135	1131.51	22.50	-5.90E-03	1.37E-01	1.47E-01
		1260.41	28.60	-2.13E-02		1.37E-01
		1678.03	9.54	5.50E-03		3.60E-01
+	CS-136	153.22	7.46	-4.14E-02	2.41E-02	2.20E-01
		163.89	4.61	-1.03E-01		3.75E-01
		176.55	13.56	1.45E-02		1.17E-01
		273.65	12.66	7.78E-02		1.63E-01
		340.57	48.50	-7.06E-03		4.79E-02
		818.50	99.70	-1.31E-02		2.87E-02
		1048.07	79.60	-4.52E-03		2.41E-02
		1235.34	19.70	-5.20E-03		1.47E-01
+	CS-137	661.65	85.12	7.96E-04	3.42E-02	3.42E-02
+	LA-138	788.74	34.00	-3.35E-02	4.61E-02	7.00E-02
		1435.80	66.00	4.17E-03		4.61E-02
+	CE-139	165.85	80.35	-4.12E-03	2.13E-02	2.13E-02
+	BA-140	162.64	6.70	5.01E-02	8.88E-02	2.62E-01
		304.84	4.50	-9.18E-02		4.10E-01
		423.70	3.20	-2.37E-01		6.23E-01
		437.55	2.00	6.22E-01		1.23E+00
		537.32	25.00	4.16E-03		8.88E-02
+	LA-140	328.77	20.50	3.92E-02	3.97E-02	1.08E-01
		487.03	45.50	-5.50E-03		4.12E-02
		815.85	23.50	1.79E-02		1.36E-01
		1596.49	95.49	9.46E-03		3.97E-02
+	CE-141	145.44	48.40	9.90E-03	3.83E-02	3.83E-02
+	CE-143	57.36	11.80	1.17E-01	5.55E-02	2.27E-01
		293.26	42.00	-9.61E-03		5.55E-02
		664.55	5.20	1.55E-01		5.90E-01
+	CE-144	133.54	10.80	3.44E-02	1.44E-01	1.44E-01
+	PM-144	476.78	42.00	-1.32E-02	2.60E-02	4.61E-02
		618.01	98.60	1.68E-03		2.60E-02
		696.49	99.49	2.62E-03		3.29E-02
+	PM-145	36.85	21.70	1.16E-01	2.65E-01	5.17E-01
		37.36	39.70	5.94E-02		2.65E-01
		42.30	15.10	2.38E-02		4.38E-01
		72.40	2.31	9.35E-03		6.04E-01
+	PM-146	453.90	39.94	-2.34E-03	5.42E-02	5.42E-02
		735.90	14.01	7.12E-03		1.92E-01
		747.13	13.10	9.68E-03		2.22E-01
+	ND-147	91.11	28.90	9.68E-03	6.91E-02	6.91E-02
		531.02	13.10	-2.21E-02		1.57E-01
+	PM-149	285.90	3.10	3.60E-02	6.83E-01	6.83E-01

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	EU-152	121.78		20.50	3.98E-02	8.37E-02	8.37E-02
		244.69		5.40	-2.04E-02		3.69E-01
		344.27		19.13	1.44E-02		1.14E-01
		778.89		9.20	5.73E-03		3.13E-01
		964.01		10.40	-2.19E-01		2.49E-01
		1085.78		7.22	0.00E+00		3.78E-01
		1112.02		9.60	2.44E-02		3.03E-01
		1407.95		14.94	2.14E-02		1.75E-01
+	GD-153	97.43		31.30	7.37E-03	5.21E-02	5.21E-02
		103.18		22.20	1.30E-02		7.11E-02
+	EU-154	123.07		40.50	-3.42E-03	4.04E-02	4.04E-02
		723.30		19.70	4.34E-02		1.71E-01
		873.19		11.50	1.73E-02		2.81E-01
		996.32		10.30	-2.24E-01		2.58E-01
		1004.76		17.90	1.45E-02		1.83E-01
		1274.45		35.50	2.88E-02		8.72E-02
+	EU-155	86.50		30.90	-1.90E-02	5.04E-02	5.04E-02
		105.30		20.70	-4.96E-03		7.20E-02
+	EU-156	811.77		10.40	6.33E-02	2.93E-01	2.93E-01
		1153.47		7.20	-1.08E-01		3.38E-01
		1230.71		8.90	1.33E-01		3.55E-01
+	HO-166M	184.41		72.60	1.85E-02	3.07E-02	3.07E-02
		280.45		29.60	6.10E-02		6.64E-02
		410.94		11.10	-1.20E-02		1.82E-01
		711.69		54.10	-1.39E-02		4.20E-02
+	TM-171	66.72		0.14	3.87E+00	9.37E+00	9.37E+00
+	HF-172	81.75		4.52	-3.15E-02	1.44E-01	2.86E-01
		125.81		11.30	3.36E-02		1.44E-01
+	LU-172	181.53		20.60	-2.60E-02	4.81E-02	8.21E-02
		810.06		16.63	-2.35E-02		1.52E-01
		912.12		15.25	-1.69E-02		2.11E-01
		1093.66		62.50	-7.24E-04		4.81E-02
+	LU-173	100.72		5.24	9.12E-02	1.05E-01	3.08E-01
		272.11		21.20	1.41E-02		1.05E-01
+	HF-175	343.40		84.00	-9.28E-03	2.57E-02	2.57E-02
+	LU-176	88.34		13.30	4.37E-02	1.99E-02	1.21E-01
		201.83		86.00	-3.53E-03		2.29E-02
		306.78		94.00	-1.20E-02		1.99E-02
+	TA-182	67.75		41.20	-1.10E-02	2.81E-02	2.81E-02
		1121.30		34.90	1.69E-02		6.32E-02
		1189.05		16.23	-2.17E-02		1.72E-01
		1221.41		26.98	-6.25E-03		1.06E-01
		1231.02		11.44	5.01E-02		2.64E-01
+	IR-192	308.46		29.68	5.66E-03	4.17E-02	6.75E-02
		468.07		48.10	-3.41E-03		4.17E-02
+	HG-203	279.19	*	77.30	1.39E-02	2.30E-02	2.30E-02
+	BI-207	569.67		97.72	-2.61E-04	2.61E-02	2.61E-02
		1063.62		74.90	4.24E-03		4.71E-02
+	TL-208	583.14		30.22	6.95E-03	8.59E-02	8.59E-02

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	860.37	4.48	1.79E-02	8.59E-02	6.09E-01
		2614.66	35.85	5.55E-02		1.24E-01
+	BI-210M	262.00	45.00	-1.23E-02	4.68E-02	4.68E-02
		300.00	23.00	6.49E-02		9.51E-02
+	PB-210	46.50	4.25	1.13E+00	1.27E+00	1.27E+00
+	PB-211	404.84	2.90	-6.15E-01	6.37E-01	6.37E-01
		831.96	2.90	3.03E-02		9.70E-01
+	BI-212	727.17	11.80	8.37E-03	2.56E-01	2.56E-01
		1620.62	2.75	-4.22E-01		1.04E+00
+	PB-212	238.63	44.60	7.98E-03	5.39E-02	5.39E-02
		300.09	3.41	4.38E-01		6.42E-01
+	BI-214	609.31	46.30	4.63E-02	8.45E-02	8.45E-02
		1120.29	15.10	3.82E-02		1.67E-01
		1764.49	15.80	0.00E+00		2.30E-01
		2204.22	4.98	-4.90E-02		6.42E-01
+	PB-214	295.21	19.19	5.65E-02	6.75E-02	1.21E-01
		351.92	37.19	3.94E-02		6.75E-02
+	RN-219	401.80	6.50	1.49E-01	3.61E-01	3.61E-01
+	RA-223	323.87	3.88	6.18E-02	5.01E-01	5.01E-01
+	RA-224	240.98	3.95	1.65E-01	6.06E-01	6.06E-01
+	RA-225	40.00	31.00	-1.41E-01	2.55E-01	2.55E-01
+	RA-226	186.21	3.28	4.55E-01	7.08E-01	7.08E-01
+	TH-227	50.10	8.40	6.66E-02	1.79E-01	4.67E-01
		236.00	11.50	-2.14E-01		1.79E-01
		256.20	6.30	-1.11E-01		2.97E-01
+	AC-228	338.32	11.40	7.70E-02	1.18E-01	2.12E-01
		911.07	27.70	2.04E-02		1.18E-01
		969.11	16.60	8.42E-02		2.02E-01
+	TH-230	48.44	16.90	-3.19E-01	2.42E-01	2.42E-01
		62.85	4.60	2.82E-01		3.92E-01
		67.67	0.37	-1.23E+00		3.13E+00
+	PA-231	283.67	1.60	2.32E-01	8.49E-01	1.20E+00
		302.67	2.30	-8.00E-02		8.49E-01
+	TH-231	25.64	14.70	-1.49E+00	1.97E-01	8.19E+00
		84.21	6.40	3.23E-02		1.97E-01
+	PA-233	311.98	38.60	-3.79E-03	5.60E-02	5.60E-02
+	PA-234	131.20	20.40	-4.84E-02	8.06E-02	8.06E-02
		733.99	8.80	-3.01E-03		3.04E-01
		946.00	12.00	-4.79E-02		2.38E-01
+	PA-234M	1001.03	0.92	4.17E-01	3.74E+00	3.74E+00
+	TH-234	63.29	3.80	3.39E-01	4.71E-01	4.71E-01
+	U-235	143.76	10.50	5.11E-03	1.78E-01	1.78E-01
		163.35	4.70	7.13E-02		3.74E-01
		205.31	4.70	1.36E-01		4.00E-01
+	NP-237	86.50	12.60	-4.66E-02	1.24E-01	1.24E-01
+	NP-239	106.10	22.70	-4.93E-03	6.74E-02	6.74E-02
		228.18	10.70	-1.28E-02		1.84E-01
		277.60	14.10	2.02E-02		1.38E-01

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54	35.90	-4.06E-03	4.74E-02	4.74E-02
+	AM-243	74.67	66.00	-6.43E-03	2.08E-02	2.08E-02
+	CM-243	209.75	3.29	1.28E-01	1.36E-01	5.52E-01
		228.14	10.60	-1.27E-02		1.83E-01
		277.60	14.00	1.99E-02		1.36E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.86E-01	1.86E-01	-5.33E-02	8.19E-02
	NA-22	1274.54		99.94	3.10E-02	3.10E-02	1.02E-02	1.30E-02
	NA-24	1368.53		99.99	3.96E-02	1.82E-02	7.19E-03	1.70E-02
		2754.09		99.86	1.82E-02		-3.30E-03	5.76E-03
	AL-26	1808.65		99.76	3.87E-02	3.87E-02	3.35E-03	1.62E-02
+	K-40	1460.81	*	10.67	3.88E-01	3.88E-01	1.89E-01	1.68E-01
	AR-41	1293.64		99.16	5.64E-02	5.64E-02	-7.52E-03	2.36E-02
	TI-44	67.88		94.40	1.22E-02	1.22E-02	-4.79E-03	5.58E-03
		78.34		96.00	1.43E-02		4.33E-03	6.66E-03
	SC-46	889.25		99.98	2.43E-02	2.43E-02	-1.08E-02	1.03E-02
		1120.51		99.99	2.53E-02		5.77E-03	1.04E-02
	V-48	983.52		99.98	2.53E-02	2.53E-02	-1.35E-02	1.06E-02
		1312.10		97.50	2.76E-02		-1.30E-02	1.11E-02
	CR-51	320.08		9.83	2.09E-01	2.09E-01	2.00E-02	9.56E-02
	MN-54	834.83		99.97	2.31E-02	2.31E-02	-1.22E-02	9.74E-03
	CO-56	846.75		99.96	2.70E-02	2.70E-02	1.15E-03	1.17E-02
		1037.75		14.03	2.33E-01		2.40E-02	1.02E-01
		1238.25		67.00	4.31E-02		1.36E-03	1.79E-02

Analysis Report for 1506043-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	1771.40	15.51	2.22E-01	2.70E-02	2.66E-02	9.11E-02
	2598.48	16.90	3.80E-02		0.00E+00	0.00E+00
CO-57	122.06	85.51	2.01E-02	2.01E-02	9.57E-03	9.48E-03
	136.48	10.60	1.48E-01		-1.46E-01	6.90E-02
CO-58	810.76	99.40	2.53E-02	2.53E-02	-3.90E-03	1.09E-02
FE-59	1099.22	56.50	5.71E-02	5.71E-02	6.99E-03	2.46E-02
	1291.56	43.20	7.58E-02		2.04E-02	3.20E-02
CO-60	1173.22	100.00	3.16E-02	2.89E-02	1.05E-02	1.34E-02
	1332.49	100.00	2.89E-02		-4.25E-03	1.18E-02
ZN-65	1115.52	50.75	5.75E-02	5.75E-02	-1.32E-02	2.43E-02
GA-67	93.31	35.70	5.79E-02	5.79E-02	4.67E-02	2.77E-02
	208.95	2.24	7.98E-01		-2.49E-01	3.69E-01
	300.22	16.00	1.39E-01		9.46E-02	6.40E-02
SE-75	121.11	16.70	1.01E-01	2.73E-02	2.17E-02	4.76E-02
	136.00	59.20	2.73E-02		-1.37E-03	1.28E-02
	264.65	59.80	3.61E-02		1.11E-02	1.67E-02
	279.53	25.20	7.79E-02		7.15E-02	3.57E-02
	400.65	11.40	2.13E-01		8.16E-02	9.74E-02
RB-82	776.52	13.00	2.41E-01	2.41E-01	8.66E-02	1.07E-01
RB-83	520.41	46.00	4.70E-02	4.70E-02	-7.80E-03	2.08E-02
	529.64	30.30	6.37E-02		-3.14E-02	2.77E-02
	552.65	16.40	1.22E-01		-1.69E-02	5.28E-02
KR-85	513.99	0.43	7.94E+00	7.94E+00	3.71E+00	3.69E+00
SR-85	513.99	99.27	3.48E-02	3.48E-02	1.62E-02	1.61E-02
Y-88	898.02	93.40	3.54E-02	2.18E-02	6.20E-03	1.56E-02
	1836.01	99.38	2.18E-02		7.82E-04	7.72E-03
NB-93M	16.57	9.43	3.03E+03	3.03E+03	-1.74E+03	1.46E+03
NB-94	702.63	100.00	2.71E-02	2.71E-02	-5.77E-03	1.20E-02
	871.10	100.00	3.29E-02		1.88E-02	1.46E-02
NB-95	765.79	99.81	2.98E-02	2.98E-02	5.22E-03	1.32E-02
NB-95M	235.69	25.00	8.34E-02	8.34E-02	-9.96E-02	3.88E-02
ZR-95	724.18	43.70	7.74E-02	5.85E-02	3.08E-02	3.50E-02
	756.72	55.30	5.85E-02		6.34E-03	2.63E-02
MO-99	181.06	6.20	2.75E-01	1.98E-01	2.84E-02	1.27E-01
	739.58	12.80	1.98E-01		1.08E-02	8.59E-02
	778.00	4.50	6.49E-01		2.45E-02	2.86E-01
RU-103	497.08	89.00	2.30E-02	2.30E-02	2.53E-03	1.01E-02
RU-106	621.84	9.80	2.63E-01	2.63E-01	5.70E-02	1.17E-01
AG-108M	433.93	89.90	2.45E-02	2.45E-02	3.87E-03	1.11E-02
	614.37	90.40	3.82E-02		-2.61E-03	1.76E-02
	722.95	90.50	3.73E-02		9.44E-03	1.69E-02
CD-109	88.03	3.72	4.31E-01	4.31E-01	1.56E-01	2.03E-01
AG-110M	657.75	93.14	3.22E-02	3.22E-02	-4.45E-03	1.45E-02
	677.61	10.53	2.45E-01		1.85E-02	1.08E-01
	706.67	16.46	1.46E-01		-4.72E-02	6.34E-02
	763.93	21.98	1.16E-01		-6.11E-02	5.05E-02
	884.67	71.63	4.01E-02		4.97E-03	1.74E-02
	1384.27	23.94	1.08E-01		-3.63E-02	4.29E-02
CD-113M	263.70	0.02	9.12E+01	9.12E+01	-2.36E+01	4.22E+01
SN-113	255.12	1.93	1.05E+00	2.96E-02	4.43E-01	4.88E-01
	391.69	64.90	2.96E-02		-4.64E-04	1.32E-02
TE123M	159.00	84.10	2.27E-02	2.27E-02	5.66E-03	1.07E-02
SB-124	602.71	97.87	2.82E-02	2.82E-02	-6.85E-03	1.27E-02

Analysis Report for 1506043-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SB-124	645.85	7.26	3.65E-01	2.82E-02	3.66E-02	1.63E-01
	722.78	11.10	3.04E-01		7.70E-02	1.38E-01
	1691.02	49.00	4.93E-02		7.63E-04	1.84E-02
I-125	35.49	6.49	2.06E+00	2.06E+00	1.22E-01	9.89E-01
SB-125	176.33	6.89	2.23E-01	8.13E-02	3.07E-02	1.03E-01
	427.89	29.33	8.13E-02		5.05E-02	3.70E-02
	463.38	10.35	2.04E-01		-1.15E-02	9.12E-02
	600.56	17.80	1.64E-01		2.64E-02	7.44E-02
	635.90	11.32	2.17E-01		-1.98E-02	9.57E-02
SB-126	414.70	83.30	2.36E-02	2.36E-02	-3.50E-03	1.05E-02
	666.33	99.60	2.56E-02		-1.61E-02	1.13E-02
	695.00	99.60	3.34E-02		1.28E-02	1.52E-02
	720.50	53.80	6.00E-02		-1.05E-02	2.70E-02
SN-126	87.57	37.00	4.34E-02	4.34E-02	1.57E-02	2.04E-02
SB-127	473.00	25.00	8.17E-02	8.17E-02	-5.90E-03	3.61E-02
	685.20	35.70	8.32E-02		4.03E-02	3.73E-02
	783.80	14.70	1.57E-01		-5.63E-02	6.68E-02
I-129	29.78	57.00	6.32E-01	6.32E-01	-7.89E-04	3.03E-01
	33.60	13.20	1.33E+00		-2.02E-01	6.38E-01
	39.58	7.52	1.09E+00		-6.03E-01	5.24E-01
I-131	284.30	6.05	3.19E-01	2.53E-02	6.18E-02	1.46E-01
	364.48	81.20	2.53E-02		-1.47E-02	1.15E-02
	636.97	7.26	3.32E-01		-6.20E-02	1.46E-01
	722.89	1.80	1.89E+00		4.77E-01	8.53E-01
TE-132	49.72	13.10	3.09E-01	2.23E-02	4.40E-02	1.48E-01
	228.16	88.00	2.23E-02		-1.55E-03	1.03E-02
BA-133	81.00	33.00	3.86E-02	3.55E-02	1.04E-03	1.79E-02
	302.84	17.80	1.10E-01		-1.03E-02	5.01E-02
	356.01	60.00	3.55E-02		-3.72E-03	1.61E-02
I-133	529.87	86.30	2.49E-02	2.49E-02	-4.68E-03	1.09E-02
CS-134	563.23	8.38	3.13E-01	2.88E-02	7.04E-02	1.41E-01
	569.32	15.43	1.65E-01		-1.66E-03	7.41E-02
	604.70	97.60	2.88E-02		-4.24E-02	1.30E-02
	795.84	85.40	3.09E-02		6.21E-03	1.34E-02
	801.93	8.73	3.13E-01		5.32E-02	1.37E-01
CS-135	268.24	16.00	1.30E-01	1.30E-01	-6.54E-02	6.03E-02
I-135	1131.51	22.50	1.47E-01	1.37E-01	-5.90E-03	6.17E-02
	1260.41	28.60	1.37E-01		-2.13E-02	5.84E-02
	1678.03	9.54	3.60E-01		5.50E-03	1.43E-01
CS-136	153.22	7.46	2.20E-01	2.41E-02	-4.14E-02	1.03E-01
	163.89	4.61	3.75E-01		-1.03E-01	1.75E-01
	176.55	13.56	1.17E-01		1.45E-02	5.40E-02
	273.65	12.66	1.63E-01		7.78E-02	7.52E-02
	340.57	48.50	4.79E-02		-7.06E-03	2.20E-02
	818.50	99.70	2.87E-02		-1.31E-02	1.26E-02
	1048.07	79.60	2.41E-02		-4.52E-03	9.34E-03
	1235.34	19.70	1.47E-01		-5.20E-03	6.08E-02
CS-137	661.65	85.12	3.42E-02	3.42E-02	7.96E-04	1.53E-02
LA-138	788.74	34.00	7.00E-02	4.61E-02	-3.35E-02	3.00E-02
	1435.80	66.00	4.61E-02		4.17E-03	1.89E-02
CE-139	165.85	80.35	2.13E-02	2.13E-02	-4.12E-03	9.95E-03
BA-140	162.64	6.70	2.62E-01	8.88E-02	5.01E-02	1.23E-01
	304.84	4.50	4.10E-01		-9.18E-02	1.86E-01

Analysis Report for 1506043-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-140	423.70	3.20	6.23E-01	8.88E-02	-2.37E-01	2.78E-01
	437.55	2.00	1.23E+00		6.22E-01	5.61E-01
	537.32	25.00	8.88E-02		4.16E-03	3.93E-02
LA-140	328.77	20.50	1.08E-01	3.97E-02	3.92E-02	4.98E-02
	487.03	45.50	4.12E-02		-5.50E-03	1.80E-02
	815.85	23.50	1.36E-01		1.79E-02	6.05E-02
	1596.49	95.49	3.97E-02		9.46E-03	1.68E-02
CE-141	145.44	48.40	3.83E-02	3.83E-02	9.90E-03	1.81E-02
CE-143	57.36	11.80	2.27E-01	5.55E-02	1.17E-01	1.08E-01
	293.26	42.00	5.55E-02		-9.61E-03	2.57E-02
	664.55	5.20	5.90E-01		1.55E-01	2.65E-01
CE-144	133.54	10.80	1.44E-01	1.44E-01	3.44E-02	6.75E-02
PM-144	476.78	42.00	4.61E-02	2.60E-02	-1.32E-02	2.03E-02
	618.01	98.60	2.60E-02		1.68E-03	1.16E-02
	696.49	99.49	3.29E-02		2.62E-03	1.49E-02
PM-145	36.85	21.70	5.17E-01	2.65E-01	1.16E-01	2.48E-01
	37.36	39.70	2.65E-01		5.94E-02	1.27E-01
	42.30	15.10	4.38E-01		2.38E-02	2.10E-01
	72.40	2.31	6.04E-01		9.35E-03	2.81E-01
PM-146	453.90	39.94	5.42E-02	5.42E-02	-2.34E-03	2.43E-02
	735.90	14.01	1.92E-01		7.12E-03	8.43E-02
	747.13	13.10	2.22E-01		9.68E-03	9.85E-02
ND-147	91.11	28.90	6.91E-02	6.91E-02	9.68E-03	3.30E-02
	531.02	13.10	1.57E-01		-2.21E-02	6.86E-02
PM-149	285.90	3.10	6.83E-01	6.83E-01	3.60E-02	3.15E-01
EU-152	121.78	20.50	8.37E-02	8.37E-02	3.98E-02	3.95E-02
	244.69	5.40	3.69E-01		-2.04E-02	1.71E-01
	344.27	19.13	1.14E-01		1.44E-02	5.22E-02
	778.89	9.20	3.13E-01		5.73E-03	1.38E-01
	964.01	10.40	2.49E-01		-2.19E-01	1.05E-01
	1085.78	7.22	3.78E-01		0.00E+00	1.58E-01
	1112.02	9.60	3.03E-01		2.44E-02	1.28E-01
	1407.95	14.94	1.75E-01		2.14E-02	6.96E-02
GD-153	97.43	31.30	5.21E-02	5.21E-02	7.37E-03	2.46E-02
	103.18	22.20	7.11E-02		1.30E-02	3.35E-02
EU-154	123.07	40.50	4.04E-02	4.04E-02	-3.42E-03	1.90E-02
	723.30	19.70	1.71E-01		4.34E-02	7.76E-02
	873.19	11.50	2.81E-01		1.73E-02	1.24E-01
	996.32	10.30	2.58E-01		-2.24E-01	1.09E-01
	1004.76	17.90	1.83E-01		1.45E-02	8.00E-02
	1274.45	35.50	8.72E-02		2.88E-02	3.65E-02
EU-155	86.50	30.90	5.04E-02	5.04E-02	-1.90E-02	2.37E-02
	105.30	20.70	7.20E-02		-4.96E-03	3.37E-02
EU-156	811.77	10.40	2.93E-01	2.93E-01	6.33E-02	1.30E-01
	1153.47	7.20	3.38E-01		-1.08E-01	1.37E-01
	1230.71	8.90	3.55E-01		1.33E-01	1.50E-01
HO-166M	184.41	72.60	3.07E-02	3.07E-02	1.85E-02	1.45E-02
	280.45	29.60	6.64E-02		6.10E-02	3.05E-02
	410.94	11.10	1.82E-01		-1.20E-02	8.15E-02
	711.69	54.10	4.20E-02		-1.39E-02	1.81E-02
TM-171	66.72	0.14	9.37E+00	9.37E+00	3.87E+00	4.32E+00
HF-172	81.75	4.52	2.86E-01	1.44E-01	-3.15E-02	1.33E-01
	125.81	11.30	1.44E-01		3.36E-02	6.79E-02

Analysis Report for 1506043-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LU-172	181.53		20.60	8.21E-02	4.81E-02	-2.60E-02	3.81E-02
		810.06		16.63	1.52E-01		-2.35E-02	6.56E-02
		912.12		15.25	2.11E-01		-1.69E-02	9.26E-02
		1093.66		62.50	4.81E-02		-7.24E-04	2.05E-02
	LU-173	100.72		5.24	3.08E-01	1.05E-01	9.12E-02	1.45E-01
		272.11		21.20	1.05E-01		1.41E-02	4.86E-02
	HF-175	343.40		84.00	2.57E-02	2.57E-02	-9.28E-03	1.17E-02
	LU-176	88.34		13.30	1.21E-01	1.99E-02	4.37E-02	5.68E-02
		201.83		86.00	2.29E-02		-3.53E-03	1.07E-02
		306.78		94.00	1.99E-02		-1.20E-02	9.04E-03
	TA-182	67.75		41.20	2.81E-02	2.81E-02	-1.10E-02	1.28E-02
		1121.30		34.90	6.32E-02		1.69E-02	2.51E-02
		1189.05		16.23	1.72E-01		-2.17E-02	7.14E-02
		1221.41		26.98	1.06E-01		-6.25E-03	4.39E-02
		1231.02		11.44	2.64E-01		5.01E-02	1.10E-01
	IR-192	308.46		29.68	6.75E-02	4.17E-02	5.66E-03	3.09E-02
		468.07		48.10	4.17E-02		-3.41E-03	1.84E-02
+	HG-203	279.19	*	77.30	2.30E-02	2.30E-02	1.39E-02	1.04E-02
	BI-207	569.67		97.72	2.61E-02	2.61E-02	-2.61E-04	1.17E-02
		1063.62		74.90	4.71E-02		4.24E-03	2.06E-02
	TL-208	583.14		30.22	8.59E-02	8.59E-02	6.95E-03	3.85E-02
		860.37		4.48	6.09E-01		1.79E-02	2.63E-01
		2614.66		35.85	1.24E-01		5.55E-02	5.32E-02
	BI-210M	262.00		45.00	4.68E-02	4.68E-02	-1.23E-02	2.17E-02
		300.00		23.00	9.51E-02		6.49E-02	4.39E-02
	PB-210	46.50		4.25	1.27E+00	1.27E+00	1.13E+00	6.13E-01
	PB-211	404.84		2.90	6.37E-01	6.37E-01	-6.15E-01	2.83E-01
		831.96		2.90	9.70E-01		3.03E-02	4.23E-01
	BI-212	727.17		11.80	2.56E-01	2.56E-01	8.37E-03	1.14E-01
		1620.62		2.75	1.04E+00		-4.22E-01	4.14E-01
	PB-212	238.63		44.60	5.39E-02	5.39E-02	7.98E-03	2.53E-02
		300.09		3.41	6.42E-01		4.38E-01	2.96E-01
	BI-214	609.31		46.30	8.45E-02	8.45E-02	4.63E-02	3.92E-02
		1120.29		15.10	1.67E-01		3.82E-02	6.85E-02
		1764.49		15.80	2.30E-01		0.00E+00	9.54E-02
		2204.22		4.98	6.42E-01		-4.90E-02	2.55E-01
	PB-214	295.21		19.19	1.21E-01	6.75E-02	5.65E-02	5.62E-02
		351.92		37.19	6.75E-02		3.94E-02	3.12E-02
	RN-219	401.80		6.50	3.61E-01	3.61E-01	1.49E-01	1.64E-01
	RA-223	323.87		3.88	5.01E-01	5.01E-01	6.18E-02	2.27E-01
	RA-224	240.98		3.95	6.06E-01	6.06E-01	1.65E-01	2.84E-01
	RA-225	40.00		31.00	2.55E-01	2.55E-01	-1.41E-01	1.22E-01
	RA-226	186.21		3.28	7.08E-01	7.08E-01	4.55E-01	3.35E-01
	TH-227	50.10		8.40	4.67E-01	1.79E-01	6.66E-02	2.24E-01
		236.00		11.50	1.79E-01		-2.14E-01	8.34E-02
		256.20		6.30	2.97E-01		-1.11E-01	1.36E-01
	AC-228	338.32		11.40	2.12E-01	1.18E-01	7.70E-02	9.81E-02
		911.07		27.70	1.18E-01		2.04E-02	5.20E-02
		969.11		16.60	2.02E-01		8.42E-02	8.88E-02
	TH-230	48.44		16.90	2.42E-01	2.42E-01	-3.19E-01	1.16E-01
		62.85		4.60	3.92E-01		2.82E-01	1.84E-01
		67.67		0.37	3.13E+00		-1.23E+00	1.43E+00
	PA-231	283.67		1.60	1.20E+00	8.49E-01	2.32E-01	5.47E-01

Analysis Report for 1506043-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
PA-231	302.67	2.30	8.49E-01	8.49E-01	-8.00E-02	3.88E-01
TH-231	25.64	14.70	8.19E+00	1.97E-01	-1.49E+00	3.93E+00
	84.21	6.40	1.97E-01		3.23E-02	9.14E-02
PA-233	311.98	38.60	5.60E-02	5.60E-02	-3.79E-03	2.58E-02
PA-234	131.20	20.40	8.06E-02	8.06E-02	-4.84E-02	3.79E-02
	733.99	8.80	3.04E-01		-3.01E-03	1.34E-01
	946.00	12.00	2.38E-01		-4.79E-02	1.02E-01
PA-234M	1001.03	0.92	3.74E+00	3.74E+00	4.17E-01	1.65E+00
TH-234	63.29	3.80	4.71E-01	4.71E-01	3.39E-01	2.21E-01
U-235	143.76	10.50	1.78E-01	1.78E-01	5.11E-03	8.40E-02
	163.35	4.70	3.74E-01		7.13E-02	1.75E-01
	205.31	4.70	4.00E-01		1.36E-01	1.86E-01
NP-237	86.50	12.60	1.24E-01	1.24E-01	-4.66E-02	5.82E-02
NP-239	106.10	22.70	6.74E-02	6.74E-02	-4.93E-03	3.16E-02
	228.18	10.70	1.84E-01		-1.28E-02	8.55E-02
	277.60	14.10	1.38E-01		2.02E-02	6.32E-02
AM-241	59.54	35.90	4.74E-02	4.74E-02	-4.06E-03	2.20E-02
AM-243	74.67	66.00	2.08E-02	2.08E-02	-6.43E-03	9.66E-03
CM-243	209.75	3.29	5.52E-01	1.36E-01	1.28E-01	2.56E-01
	228.14	10.60	1.83E-01		-1.27E-02	8.47E-02
	277.60	14.00	1.36E-01		1.99E-02	6.24E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506043-02

BLANK

No Data Review Comments Entered.

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***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	6	234
9:	711	1067	751	317	1107	1278	126	91
17:	88	72	86	82	64	80	73	75
25:	75	74	55	71	59	64	60	56
33:	64	64	62	72	60	63	59	75
41:	58	83	62	62	64	74	124	46
49:	57	67	61	65	55	63	52	44
57:	46	43	26	23	12	14	30	36
65:	19	16	11	19	6	16	18	18
73:	24	22	21	17	24	23	16	17
81:	21	17	19	22	14	16	16	21
89:	20	20	16	35	56	35	13	22
97:	21	12	19	22	21	16	15	18
105:	18	12	14	16	17	14	23	18
113:	19	13	20	19	18	18	12	27
121:	17	23	12	15	17	14	16	20
129:	16	26	16	10	12	22	11	15
137:	14	12	17	22	20	21	19	25
145:	17	13	18	13	14	9	9	14
153:	17	11	15	19	16	19	24	15
161:	14	13	16	15	13	11	17	10
169:	14	9	17	15	7	7	8	9
177:	13	11	10	11	8	16	11	10
185:	16	47	21	14	18	12	11	12
193:	20	15	7	13	9	13	18	18
201:	10	15	13	12	13	14	8	6
209:	10	11	16	11	10	13	11	12
217:	10	7	10	12	10	11	7	15
225:	9	15	11	7	11	11	13	10
233:	13	9	13	9	12	17	28	12
241:	13	19	8	12	18	6	9	6
249:	8	8	8	8	16	13	5	4
257:	14	7	8	8	16	7	12	11
265:	16	7	10	10	11	13	12	10
273:	11	11	10	6	3	6	13	12
281:	4	7	2	9	13	8	6	10
289:	13	9	8	9	13	14	9	14
297:	6	7	10	13	8	10	4	9
305:	6	5	8	6	8	11	8	11
313:	4	10	10	4	7	10	8	9
321:	4	7	7	7	7	5	7	13
329:	7	5	11	7	9	5	8	13
337:	5	10	9	13	7	11	5	10
345:	5	8	7	8	6	5	7	23
353:	7	9	6	9	4	7	8	8
361:	7	3	3	9	8	8	12	6

369:	6	10	12	8	1	3	5	8

Sample Title: BLANK

Channel								
377:	5	3	4	3	5	7	4	7
385:	6	8	4	7	11	12	2	3
393:	6	1	4	5	8	6	8	9
401:	8	10	4	5	3	3	6	8
409:	4	2	7	8	4	4	4	3
417:	8	6	1	6	7	4	7	3
425:	2	7	6	7	7	7	3	4
433:	6	3	5	10	3	6	11	6
441:	1	2	4	7	4	2	3	7
449:	4	9	2	4	4	6	4	7
457:	6	4	5	6	5	5	6	1
465:	6	5	4	3	1	7	6	4
473:	4	4	2	5	4	4	3	7
481:	4	4	5	1	3	2	3	1
489:	7	3	6	4	5	1	2	5
497:	5	4	3	4	3	4	3	9
505:	3	4	6	5	15	24	29	31
513:	9	7	4	6	3	3	4	3
521:	6	4	6	4	3	5	5	4
529:	1	3	2	7	4	3	4	3
537:	4	3	6	4	4	4	9	6
545:	7	4	3	3	5	3	4	1
553:	2	5	3	9	2	4	2	3
561:	5	5	4	6	7	8	3	4
569:	6	7	5	2	4	0	3	4
577:	4	2	4	2	1	2	10	7
585:	1	2	4	3	2	3	2	4
593:	4	3	4	7	5	3	6	3
601:	6	4	4	2	3	5	4	6
609:	19	10	6	7	8	7	6	7
617:	2	2	1	0	4	1	3	6
625:	7	4	2	2	5	4	2	3
633:	4	3	2	4	1	2	3	3
641:	5	5	1	2	4	7	4	2
649:	2	0	2	3	5	6	3	4
657:	2	4	3	2	10	4	3	0
665:	5	3	2	4	2	4	2	1
673:	1	1	4	2	5	4	2	1
681:	2	5	4	1	2	4	3	6
689:	1	3	5	2	4	4	4	8
697:	6	4	1	3	6	4	0	3
705:	3	2	3	3	1	1	2	1
713:	3	2	3	3	3	4	5	3
721:	5	5	3	5	7	3	3	2
729:	2	2	4	2	3	1	3	3
737:	2	3	3	3	1	0	5	6
745:	4	2	3	3	3	0	3	3
753:	6	2	3	3	7	4	1	5
761:	2	1	1	2	1	5	3	4
769:	5	3	4	0	5	3	1	2
777:	5	4	3	2	2	1	2	4
785:	0	0	2	2	3	2	3	3
793:	3	3	1	1	2	2	3	1

801:	0	1	3	4	4	3	0	2

Sample Title: BLANK

Channel								
809:	1	2	2	2	4	7	2	4
817:	1	2	2	2	4	2	3	4
825:	3	0	2	2	0	6	3	4
833:	0	2	1	2	0	1	2	5
841:	1	2	4	4	1	3	1	1
849:	0	1	3	1	2	0	7	3
857:	3	0	0	5	1	4	1	2
865:	3	1	0	3	1	5	4	0
873:	4	4	1	2	3	3	2	1
881:	2	1	2	3	4	1	2	3
889:	1	2	0	1	2	2	1	3
897:	1	4	8	2	1	2	3	1
905:	2	1	2	3	4	3	2	4
913:	3	0	2	3	3	1	3	1
921:	0	2	1	1	0	0	1	2
929:	2	1	1	0	2	2	4	0
937:	3	3	1	0	3	1	1	1
945:	2	0	1	4	4	4	2	2
953:	3	2	1	0	2	2	1	4
961:	1	3	0	2	1	0	3	1
969:	8	3	0	3	1	1	1	0
977:	2	3	1	1	0	4	1	0
985:	1	2	2	4	1	2	2	2
993:	1	1	1	2	3	0	2	6
1001:	4	3	2	1	3	1	2	1
1009:	1	2	1	3	0	1	4	1
1017:	1	0	1	0	1	3	4	1
1025:	0	0	2	1	0	1	0	4
1033:	2	1	3	2	3	3	2	1
1041:	1	1	3	2	1	0	1	1
1049:	0	1	0	0	0	0	4	0
1057:	2	3	0	6	1	2	1	2
1065:	4	1	2	3	0	1	1	0
1073:	2	2	8	2	2	6	4	3
1081:	3	0	2	2	2	1	1	1
1089:	1	2	1	1	4	1	1	1
1097:	2	2	1	2	3	2	1	3
1105:	3	1	1	1	0	3	1	0
1113:	1	1	4	1	2	1	3	1
1121:	0	0	0	0	0	1	6	0
1129:	1	1	2	2	2	1	0	1
1137:	1	2	1	0	2	3	1	1
1145:	0	2	2	2	2	1	0	2
1153:	0	0	1	2	2	0	1	1
1161:	0	2	2	0	2	1	1	2
1169:	0	0	3	0	5	0	3	0
1177:	0	1	1	0	4	3	0	2
1185:	1	0	3	1	0	1	2	1
1193:	0	3	3	2	2	0	0	2
1201:	0	0	0	2	3	1	0	0
1209:	1	2	1	1	1	1	2	2
1217:	2	1	1	0	2	1	0	3
1225:	1	0	1	2	1	2	1	2

1233:	1	0	1	1	1	2	1	1

Sample Title: BLANK

Channel								
1241:	1	2	1	1	2	1	2	1
1249:	3	1	1	0	2	2	0	2
1257:	2	3	1	1	2	1	1	3
1265:	2	0	1	0	1	0	1	2
1273:	1	0	1	3	1	0	1	1
1281:	4	0	0	1	1	1	1	1
1289:	1	1	1	2	2	2	0	1
1297:	2	2	0	1	3	2	3	1
1305:	1	0	3	3	1	0	0	2
1313:	1	0	2	0	1	1	3	0
1321:	0	1	2	2	0	3	0	2
1329:	1	2	0	2	0	2	0	1
1337:	2	1	1	2	0	0	2	2
1345:	0	1	1	0	3	1	0	1
1353:	0	1	1	1	0	1	1	0
1361:	0	1	0	2	4	2	0	2
1369:	2	1	1	1	0	3	3	1
1377:	0	0	1	1	0	2	2	0
1385:	0	1	0	2	1	2	2	0
1393:	0	1	0	3	1	0	0	3
1401:	1	0	2	0	1	1	1	0
1409:	1	1	0	0	0	1	1	1
1417:	1	0	0	0	1	1	0	1
1425:	1	2	0	1	1	1	1	0
1433:	0	2	1	0	1	3	1	0
1441:	2	1	0	1	3	0	2	1
1449:	3	0	1	0	1	1	0	1
1457:	0	0	1	7	12	3	2	1
1465:	0	1	0	0	1	0	0	0
1473:	1	3	0	2	1	1	1	1
1481:	0	3	0	1	0	0	0	3
1489:	0	0	1	0	0	2	0	0
1497:	0	1	0	0	1	1	0	1
1505:	0	0	0	1	0	1	0	0
1513:	1	0	0	0	0	0	0	0
1521:	1	1	1	0	0	1	1	2
1529:	0	0	3	0	0	1	0	0
1537:	0	1	1	0	0	4	0	0
1545:	3	1	1	0	1	0	1	0
1553:	1	4	0	0	0	1	1	0
1561:	2	0	1	0	1	1	2	1
1569:	2	3	2	0	2	0	0	2
1577:	1	0	1	2	0	1	1	1
1585:	0	0	1	2	3	0	3	1
1593:	3	0	0	1	2	0	2	1
1601:	0	0	1	1	2	1	1	0
1609:	0	1	2	0	1	0	1	0
1617:	0	3	0	0	2	0	0	0
1625:	2	1	0	0	0	0	1	3
1633:	2	1	1	0	0	0	0	0
1641:	1	0	0	0	0	0	1	0
1649:	0	0	0	1	0	1	0	2
1657:	0	0	1	0	2	2	0	0

1665:	1	0	1	0	1	1	1	2

Sample Title: BLANK

Channel								
1673:	2	0	0	1	0	0	1	1
1681:	0	0	0	0	0	1	0	1
1689:	0	0	0	0	0	1	0	1
1697:	1	1	0	2	0	0	1	0
1705:	0	1	1	0	1	0	1	1
1713:	0	0	1	1	0	1	0	0
1721:	0	1	1	1	0	1	0	1
1729:	0	0	0	1	3	0	0	0
1737:	1	0	0	0	2	0	0	0
1745:	1	0	2	1	0	0	0	0
1753:	0	0	0	1	0	0	0	0
1761:	0	0	0	2	2	2	2	0
1769:	0	0	2	1	1	1	0	0
1777:	0	0	1	0	0	0	0	1
1785:	0	1	0	0	1	0	0	1
1793:	0	0	2	0	1	2	0	0
1801:	0	0	0	3	0	1	0	2
1809:	0	1	2	0	3	1	0	0
1817:	2	1	1	1	0	0	0	0
1825:	0	1	0	0	1	0	0	0
1833:	0	1	0	0	0	1	0	0
1841:	0	0	1	1	0	1	0	0
1849:	1	0	0	2	0	0	0	0
1857:	0	0	1	0	0	1	0	0
1865:	0	0	0	0	1	0	0	0
1873:	1	2	0	1	1	0	1	0
1881:	0	0	1	0	0	2	1	0
1889:	0	0	1	0	1	0	0	0
1897:	1	0	0	2	1	2	0	0
1905:	0	0	1	1	0	0	0	0
1913:	1	0	1	0	1	0	1	0
1921:	0	0	1	1	0	0	0	0
1929:	0	0	0	0	2	1	2	1
1937:	1	0	0	0	2	2	0	0
1945:	0	0	0	0	0	0	0	0
1953:	0	3	0	0	0	0	3	0
1961:	0	0	0	0	0	0	2	0
1969:	1	2	2	0	1	1	0	0
1977:	0	0	1	0	1	0	0	0
1985:	0	1	0	0	0	0	0	0
1993:	1	0	1	0	0	0	0	0
2001:	2	0	0	0	0	0	2	1
2009:	0	0	0	1	0	0	0	0
2017:	1	0	0	1	0	0	0	0
2025:	0	0	2	0	1	1	0	0
2033:	0	2	0	0	1	0	0	0
2041:	0	0	0	1	1	0	0	0
2049:	1	0	2	0	1	1	0	0
2057:	1	1	1	1	0	0	0	1
2065:	0	0	0	1	0	0	0	0
2073:	0	1	0	1	0	0	0	1
2081:	0	0	1	1	0	1	1	0
2089:	0	0	0	0	1	1	0	1

2097:	0	0	0	0	0	0	1	0

Sample Title: BLANK

Channel								
2105:	0	0	2	1	0	2	0	1
2113:	0	0	0	0	0	1	0	1
2121:	1	1	0	0	1	0	0	1
2129:	0	0	1	0	0	0	0	0
2137:	1	0	1	0	1	1	2	0
2145:	0	0	1	0	0	1	0	0
2153:	0	1	0	0	0	1	1	2
2161:	0	0	0	0	1	0	0	0
2169:	0	1	0	1	0	1	0	1
2177:	1	1	0	0	0	0	0	0
2185:	0	0	1	0	0	0	0	1
2193:	2	0	0	0	1	1	0	0
2201:	1	1	0	1	0	1	0	1
2209:	2	0	0	0	0	0	0	0
2217:	0	0	1	0	2	0	1	0
2225:	0	0	0	0	0	1	1	2
2233:	0	1	0	1	1	0	2	0
2241:	0	0	1	0	1	1	0	1
2249:	0	1	0	0	0	1	1	0
2257:	0	0	0	0	0	1	0	0
2265:	0	0	0	1	0	0	0	0
2273:	0	0	1	0	2	1	0	1
2281:	1	0	0	1	0	0	0	0
2289:	0	0	0	0	0	0	0	1
2297:	1	0	0	0	2	0	0	1
2305:	2	1	0	0	0	0	0	0
2313:	1	0	0	0	0	0	1	0
2321:	0	0	0	2	0	0	1	0
2329:	0	0	1	0	1	0	0	1
2337:	0	0	1	0	0	0	0	1
2345:	0	0	0	0	0	1	0	1
2353:	1	2	0	0	0	0	0	0
2361:	0	0	1	0	0	1	1	0
2369:	0	1	0	0	1	0	0	1
2377:	0	0	1	0	0	1	0	1
2385:	0	0	0	0	0	0	0	0
2393:	0	2	0	0	1	1	0	0
2401:	1	0	0	1	1	1	1	1
2409:	0	0	1	0	0	0	0	0
2417:	0	0	0	0	0	0	0	0
2425:	0	1	1	0	1	0	0	0
2433:	0	0	0	0	0	1	0	0
2441:	0	0	0	1	1	0	1	0
2449:	0	0	1	0	0	1	1	0
2457:	0	0	1	0	0	0	1	0
2465:	0	0	0	0	0	0	0	0
2473:	0	0	0	0	0	0	0	1
2481:	1	1	0	0	0	0	0	0
2489:	0	0	1	0	0	0	0	0
2497:	0	0	0	1	0	0	0	1
2505:	0	0	1	0	0	0	0	0
2513:	1	1	1	0	1	1	0	0
2521:	0	1	0	1	1	0	0	0

2529:	0	0	1	0	0	0	0	0

Sample Title: BLANK

Channel								
2537:	0	0	0	0	0	0	0	1
2545:	1	0	0	1	0	3	0	0
2553:	0	0	0	0	0	1	0	0
2561:	0	0	0	0	0	0	0	0
2569:	0	1	0	0	0	1	0	0
2577:	0	0	0	0	0	0	0	1
2585:	0	0	0	0	0	0	0	0
2593:	0	0	0	0	0	0	0	0
2601:	0	0	0	0	0	2	2	1
2609:	0	0	1	2	3	3	2	0
2617:	1	0	0	0	0	0	0	0
2625:	0	0	1	0	0	1	0	0
2633:	0	0	0	1	1	0	1	0
2641:	0	0	0	2	0	1	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	0	0	0	2	0	1	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	0	0	0	0	1	0
2681:	1	1	0	0	0	0	0	0
2689:	0	0	0	0	0	0	0	0
2697:	0	1	0	0	0	0	0	0
2705:	0	0	0	1	0	0	0	0
2713:	2	0	0	0	1	0	0	0
2721:	0	0	0	0	0	1	0	0
2729:	1	0	1	0	0	0	2	0
2737:	0	0	0	0	1	0	0	0
2745:	0	0	0	0	0	0	1	0
2753:	0	0	0	0	0	0	1	0
2761:	1	0	0	0	0	0	2	0
2769:	0	0	0	0	0	0	0	0
2777:	1	0	1	0	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	1	0	0	1	0	0	0	0
2801:	0	0	1	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	1	0	1	0	0	0	0
2833:	0	0	0	0	1	0	0	0
2841:	0	0	0	0	0	0	0	1
2849:	0	1	1	1	0	0	0	0
2857:	0	0	1	0	0	0	1	0
2865:	0	0	1	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	1	0	0	1	2	0	0
2889:	1	0	0	1	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	1	0	1	1	0
2921:	0	1	1	0	0	0	1	0
2929:	0	0	0	1	0	0	0	0
2937:	0	0	0	1	0	0	0	1
2945:	0	0	0	0	0	1	0	0
2953:	0	1	0	0	0	0	0	0

2961:	0	1	0	0	0	1	0	1

Sample Title: BLANK

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	1	0	0	1	0	0	0	1
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	1	0	1	0	0	0
3009:	1	1	1	0	1	1	0	0
3017:	0	0	0	0	2	0	0	0
3025:	0	0	1	0	0	1	0	0
3033:	1	0	1	0	0	0	0	0
3041:	0	0	0	1	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	2	0	0	0
3073:	0	0	0	1	0	0	1	0
3081:	1	0	0	0	0	0	1	0
3089:	0	0	1	0	0	0	0	0
3097:	0	0	0	0	0	0	0	1
3105:	0	0	0	0	0	0	1	0
3113:	0	0	0	0	0	0	0	0
3121:	0	1	1	0	0	0	0	0
3129:	0	0	0	0	0	0	1	0
3137:	0	0	0	0	1	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	1	0	0	0	0	1	0
3161:	0	1	0	1	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	1	1	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	2	2	0	0	1
3201:	0	0	0	0	0	0	1	0
3209:	0	1	0	0	0	0	0	0
3217:	0	0	0	0	0	0	1	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	1	0	0
3241:	0	1	0	0	0	1	0	0
3249:	0	0	1	0	0	0	1	0
3257:	0	0	0	1	0	0	1	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	1	0	0	0	0
3281:	0	0	0	0	0	0	1	0
3289:	0	1	0	0	0	0	0	0
3297:	1	1	0	1	0	0	0	1
3305:	0	0	0	0	0	0	0	1
3313:	0	1	0	0	0	0	0	0
3321:	0	0	1	0	0	0	0	0
3329:	0	0	0	1	0	0	0	0
3337:	0	0	0	0	1	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	1	0	1	0	1	0
3361:	0	0	0	0	1	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	1	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	1	0	0	1

Sample Title: BLANK

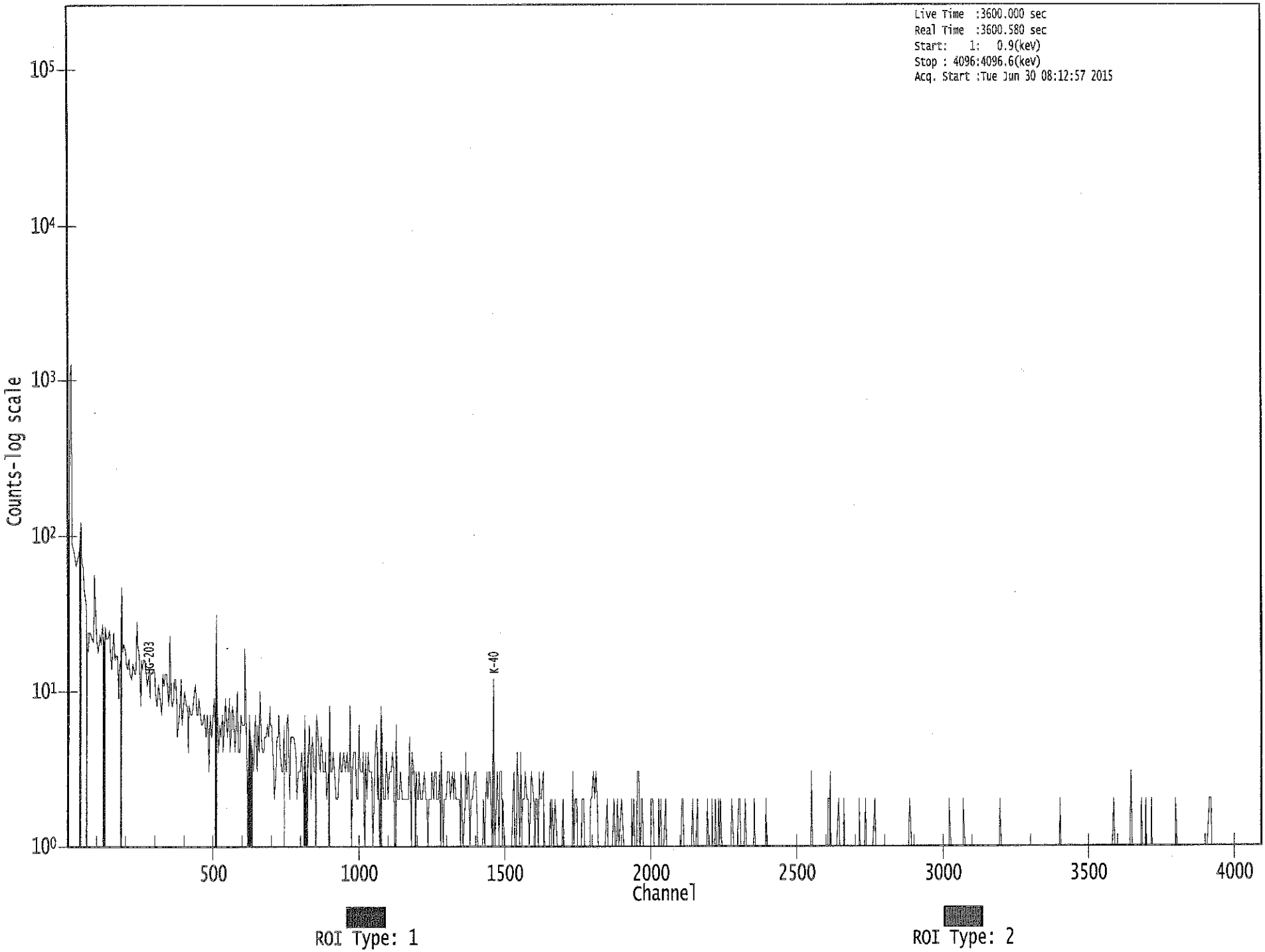
Channel								
3401:	0	2	0	0	0	0	0	0
3409:	1	0	0	1	0	0	0	0
3417:	0	0	0	0	1	0	1	0
3425:	0	0	0	0	0	0	1	0
3433:	0	0	0	0	0	1	0	0
3441:	0	0	0	0	0	0	0	1
3449:	0	0	0	0	0	0	0	0
3457:	1	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	1	0	1	0	1
3481:	1	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	1	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	1	0	0	0	0
3513:	0	0	1	0	1	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	1	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	1	0	0	1	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	1	0	0
3569:	0	0	0	0	1	0	0	0
3577:	1	0	0	0	1	0	0	0
3585:	0	2	0	0	0	1	0	0
3593:	0	0	0	0	0	0	0	0
3601:	1	0	1	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	1	0	0	0	0	1	0
3625:	0	0	0	1	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	1	0	0	3	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	1	0	1	0	1	1	0	0
3673:	0	0	0	0	0	1	0	0
3681:	2	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	2
3697:	1	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	2	0	1	0	0
3721:	0	0	0	0	0	0	1	0
3729:	0	0	0	0	0	1	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	1	0
3761:	0	1	1	0	0	1	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	1	0
3793:	0	0	0	0	0	2	0	0
3801:	0	0	0	1	0	0	0	0
3809:	0	0	0	0	0	0	0	1
3817:	0	0	1	0	1	0	1	1

3825:	0	0	0	0	1	0	1	0

Sample Title: BLANK

Channel								
3833:	1	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	1	0	0
3857:	0	0	0	0	0	1	1	0
3865:	0	0	0	0	0	0	0	1
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	1	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	1	0	0	1	0	0
3913:	0	0	2	0	0	0	0	2
3921:	0	0	0	0	0	0	0	0
3929:	0	1	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	1	0	1	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	1	0
3969:	0	0	0	0	0	0	0	1
3977:	0	0	0	1	0	0	0	0
3985:	1	0	1	0	0	0	0	0
3993:	1	0	0	1	1	0	0	0
4001:	0	1	1	0	0	0	0	0
4009:	0	1	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	1
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	1	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	1
4065:	0	1	0	1	0	0	0	0
4073:	0	0	0	0	0	1	0	0
4081:	0	1	0	0	0	0	0	0
4089:	0	0	0	2	1	0	0	0

0000023892.CNF



Apex-Gamma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-03
Sample Description	: FEEBRISID-09-088-089
Sample Type	: SOIL
Sample Size	: 3.300E+02 grams
Facility	: Countroom
Sample Taken On	: 6/11/2015 5:50:46AM
Acquisition Started	: 7/6/2015 6:09:02AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3603.1 seconds
Dead Time	: 0.09 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23955

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/6/15

Analysis Report for 1506043-03

FEEBRISID-09-088-089

PEAK LOCATE REPORT

Peak Locate Performed on : 7/6/2015 7:09:09AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	14.07	14.20	0.0000	0.00
2	27.41	27.52	0.0000	0.00
3	32.19	32.30	0.0000	0.00
4	46.81	46.91	0.0000	0.00
5	50.11	50.21	0.0000	0.00
6	67.87	67.97	0.0000	0.00
7	75.01	75.10	0.0000	0.00
8	80.92	81.01	0.0000	0.00
9	83.82	83.90	0.0000	0.00
10	87.00	87.08	0.0000	0.00
11	94.46	94.54	0.0000	0.00
12	122.67	122.73	0.0000	0.00
13	144.09	144.14	0.0000	0.00
14	154.28	154.32	0.0000	0.00
15	186.20	186.23	0.0000	0.00
16	236.13	236.13	0.0000	0.00
17	239.06	239.05	0.0000	0.00
18	242.05	242.04	0.0000	0.00
19	255.50	255.49	0.0000	0.00
20	258.03	258.01	0.0000	0.00
21	270.57	270.55	0.0000	0.00
22	285.43	285.41	0.0000	0.00
23	295.31	295.28	0.0000	0.00
24	299.86	299.82	0.0000	0.00
25	303.33	303.29	0.0000	0.00
26	324.02	323.97	0.0000	0.00
27	329.92	329.87	0.0000	0.00
28	338.26	338.20	0.0000	0.00
29	351.92	351.86	0.0000	0.00
30	389.27	389.19	0.0000	0.00
31	401.94	401.85	0.0000	0.00
32	405.24	405.15	0.0000	0.00
33	425.74	425.64	0.0000	0.00
34	445.48	445.37	0.0000	0.00
35	462.96	462.84	0.0000	0.00
36	480.36	480.23	0.0000	0.00
37	487.30	487.17	0.0000	0.00
38	583.14	582.96	0.0000	0.00
39	609.42	609.23	0.0000	0.00
40	665.20	664.98	0.0000	0.00
41	692.58	692.35	0.0000	0.00
42	702.37	702.13	0.0000	0.00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	719.77	719.53	0.0000	0.00
44	768.43	768.17	0.0000	0.00
45	786.17	785.90	0.0000	0.00
46	805.92	805.64	0.0000	0.00
47	832.30	832.00	0.0000	0.00
48	839.33	839.04	0.0000	0.00
49	862.02	861.71	0.0000	0.00
50	910.64	910.31	0.0000	0.00
51	933.87	933.54	0.0000	0.00
52	965.55	965.20	0.0000	0.00
53	970.35	970.00	0.0000	0.00
54	1120.44	1120.04	0.0000	0.00
55	1155.43	1155.01	0.0000	0.00
56	1238.38	1237.93	0.0000	0.00
57	1253.63	1253.18	0.0000	0.00
58	1281.24	1280.78	0.0000	0.00
59	1286.47	1286.00	0.0000	0.00
60	1336.12	1335.63	0.0000	0.00
61	1362.30	1361.81	0.0000	0.00
62	1373.71	1373.22	0.0000	0.00
63	1377.84	1377.35	0.0000	0.00
64	1402.03	1401.52	0.0000	0.00
65	1408.28	1407.78	0.0000	0.00
66	1433.21	1432.69	0.0000	0.00
67	1461.20	1460.68	0.0000	0.00
68	1510.07	1509.53	0.0000	0.00
69	1522.03	1521.49	0.0000	0.00
70	1527.77	1527.23	0.0000	0.00
71	1556.89	1556.34	0.0000	0.00
72	1584.07	1583.51	0.0000	0.00
73	1597.19	1596.63	0.0000	0.00
74	1662.12	1661.54	0.0000	0.00
75	1665.93	1665.35	0.0000	0.00
76	1729.85	1729.25	0.0000	0.00
77	1764.80	1764.19	0.0000	0.00
78	1777.80	1777.19	0.0000	0.00
79	1838.26	1837.64	0.0000	0.00
80	1847.80	1847.17	0.0000	0.00
81	1855.70	1855.07	0.0000	0.00
82	1873.41	1872.78	0.0000	0.00
83	1896.21	1895.57	0.0000	0.00
84	2016.58	2015.92	0.0000	0.00
85	2031.60	2030.94	0.0000	0.00
86	2109.42	2108.74	0.0000	0.00
87	2118.57	2117.90	0.0000	0.00
88	2204.17	2203.47	0.0000	0.00
89	2447.56	2446.84	0.0000	0.00
90	2580.54	2579.80	0.0000	0.00
91	2614.35	2613.60	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/6/2015 7:09:09AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	14.07	12 -	17	14.20	2.21E+03	250.88	1.21E+04	3.48
	2	27.41	25 -	29	27.52	2.37E+02	105.73	2.28E+03	1.44
	3	32.19	31 -	34	32.30	2.40E+02	92.63	1.90E+03	1.43
M	4	46.81	43 -	52	46.91	1.71E+03	135.00	2.68E+03	1.21
m	5	50.11	43 -	52	50.21	2.85E+02	111.43	2.86E+03	1.21
	6	67.87	65 -	71	67.97	3.11E+03	220.12	6.48E+03	1.20
M	7	75.01	72 -	91	75.10	1.44E+03	118.10	2.50E+03	1.10
m	8	80.92	72 -	91	81.01	6.72E+02	107.80	2.32E+03	1.10
m	9	83.82	72 -	91	83.90	1.64E+03	122.34	2.25E+03	1.10
m	10	87.00	72 -	91	87.08	4.42E+02	101.71	2.18E+03	1.11
	11	94.46	92 -	97	94.54	3.86E+02	147.34	4.02E+03	1.15
	12	122.67	121 -	125	122.73	1.11E+02	96.73	1.98E+03	2.07
	13	144.09	141 -	148	144.14	7.01E+02	154.58	3.52E+03	1.43
	14	154.28	151 -	157	154.32	3.73E+02	136.08	3.10E+03	1.75
	15	186.20	182 -	190	186.23	1.08E+03	156.72	3.11E+03	1.50
M	16	236.13	233 -	246	236.13	5.68E+02	75.29	8.27E+02	1.41
m	17	239.06	233 -	246	239.05	1.81E+02	67.88	8.13E+02	1.41
m	18	242.05	233 -	246	242.04	1.23E+03	91.65	7.93E+02	1.42
M	19	255.50	251 -	265	255.49	3.75E+02	104.42	1.61E+03	2.80
m	20	258.03	251 -	265	258.01	1.93E+02	105.07	1.50E+03	2.81
	21	270.57	265 -	276	270.55	1.15E+03	143.71	2.01E+03	3.31
	22	285.43	280 -	290	285.41	2.13E+02	117.76	1.73E+03	3.28
M	23	295.31	291 -	307	295.28	2.79E+03	115.08	5.62E+02	1.43
m	24	299.86	291 -	307	299.82	2.27E+02	64.08	6.55E+02	1.66
m	25	303.33	291 -	307	303.29	1.11E+02	61.73	6.43E+02	1.66
	26	324.02	320 -	327	323.97	1.65E+02	81.24	9.94E+02	1.66
	27	329.92	328 -	332	329.87	1.57E+02	59.98	6.60E+02	1.17
	28	338.26	335 -	340	338.20	8.34E+01	71.30	9.39E+02	1.19
	29	351.92	348 -	356	351.86	5.19E+03	163.58	9.27E+02	1.46
	30	389.27	385 -	392	389.19	8.27E+01	73.51	8.49E+02	1.87
M	31	401.94	398 -	411	401.85	2.09E+02	57.19	5.50E+02	1.64
m	32	405.24	398 -	411	405.15	1.98E+02	54.72	5.01E+02	1.64
	33	425.74	421 -	430	425.64	1.19E+02	81.82	8.71E+02	1.40
	34	445.48	443 -	448	445.37	4.36E+01	47.31	4.11E+02	1.26
	35	462.96	459 -	467	462.84	8.77E+01	60.07	4.95E+02	2.95
	36	480.36	477 -	483	480.23	4.11E+01	49.78	4.16E+02	2.08
	37	487.30	484 -	490	487.17	5.65E+01	47.82	3.75E+02	2.98
	38	583.14	579 -	586	582.96	7.35E+01	49.44	3.55E+02	1.28
	39	609.42	604 -	613	609.23	3.27E+03	126.16	4.06E+02	1.79
	40	665.20	660 -	670	664.98	1.45E+02	53.76	3.08E+02	1.93

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	692.58	688 -	696	692.35	4.09E+01	44.76	2.82E+02	4.30
	42	702.37	697 -	708	702.13	6.14E+01	59.70	4.17E+02	6.89
	43	719.77	716 -	724	719.53	3.81E+01	41.25	2.38E+02	3.21
	44	768.43	764 -	771	768.17	2.67E+02	50.32	2.44E+02	1.62
	45	786.17	782 -	790	785.90	5.28E+01	47.98	3.16E+02	1.87
	46	805.92	801 -	810	805.64	6.83E+01	49.46	3.11E+02	1.76
	47	832.30	829 -	835	832.00	5.95E+01	39.51	2.39E+02	1.91
	48	839.33	836 -	844	839.04	4.70E+01	45.39	2.88E+02	2.34
	49	862.02	858 -	867	861.71	4.67E+01	44.86	2.63E+02	5.02
	50	910.64	906 -	914	910.31	6.41E+01	45.65	2.76E+02	2.68
	51	933.87	929 -	936	933.54	1.69E+02	45.96	2.38E+02	1.76
M	52	965.55	958 -	973	965.20	3.38E+01	35.12	1.94E+02	2.19
m	53	970.35	958 -	973	970.00	3.12E+01	31.48	1.60E+02	1.99
	54	1120.44	1114 -	1125	1120.04	7.17E+02	68.50	2.28E+02	1.91
	55	1155.43	1152 -	1159	1155.01	6.94E+01	37.74	1.89E+02	1.62
	56	1238.38	1232 -	1243	1237.93	2.73E+02	53.10	2.16E+02	1.95
	57	1253.63	1246 -	1258	1253.18	4.21E+01	41.41	1.82E+02	9.52
M	58	1281.24	1277 -	1292	1280.78	8.40E+01	29.78	1.02E+02	2.35
m	59	1286.47	1277 -	1292	1286.00	1.56E+01	23.98	8.92E+01	2.21
	60	1336.12	1332 -	1339	1335.63	2.58E+01	25.61	9.25E+01	2.22
	61	1362.30	1358 -	1366	1361.81	3.16E+01	29.16	1.09E+02	2.60
M	62	1373.71	1372 -	1382	1373.22	1.56E+01	10.20	2.26E+01	2.51
m	63	1377.84	1372 -	1382	1377.35	1.63E+02	34.57	9.95E+01	2.17
M	64	1402.03	1396 -	1410	1401.52	4.83E+01	31.37	1.40E+02	2.76
m	65	1408.28	1396 -	1410	1407.78	8.00E+01	28.60	9.87E+01	2.12
	66	1433.21	1429 -	1436	1432.69	2.48E+01	22.45	6.64E+01	2.13
	67	1461.20	1456 -	1465	1460.68	1.27E+02	35.06	9.89E+01	2.44
	68	1510.07	1505 -	1516	1509.53	1.06E+02	40.99	1.60E+02	2.38
M	69	1522.03	1519 -	1530	1521.49	2.29E+01	17.28	4.61E+01	2.84
m	70	1527.77	1519 -	1530	1527.23	2.71E+01	22.02	6.83E+01	2.85
	71	1556.89	1553 -	1559	1556.34	2.15E+01	18.85	4.90E+01	3.01
	72	1584.07	1579 -	1588	1583.51	5.48E+01	29.78	9.63E+01	1.80
	73	1597.19	1592 -	1601	1596.63	2.04E+01	26.34	8.12E+01	1.58
M	74	1662.12	1654 -	1667	1661.54	5.81E+01	23.56	2.66E+01	3.55
m	75	1665.93	1654 -	1667	1665.35	1.08E+01	14.46	1.25E+01	2.11
	76	1729.85	1722 -	1735	1729.25	1.28E+02	35.61	8.35E+01	2.55
	77	1764.80	1758 -	1771	1764.19	5.64E+02	51.32	4.20E+01	2.70
	78	1777.80	1773 -	1781	1777.19	1.30E+01	12.69	1.40E+01	2.24
	79	1838.26	1833 -	1842	1837.64	3.25E+01	17.46	2.51E+01	4.59
M	80	1847.80	1843 -	1858	1847.17	9.43E+01	22.80	2.19E+01	2.78
m	81	1855.70	1843 -	1858	1855.07	1.97E+01	12.96	9.80E+00	2.79
	82	1873.41	1868 -	1876	1872.78	1.44E+01	15.28	2.71E+01	3.93
	83	1896.21	1887 -	1909	1895.57	2.79E+01	34.67	8.23E+01	7.03
	84	2016.58	2013 -	2018	2015.92	1.10E+01	10.20	1.20E+01	1.16
	85	2031.60	2027 -	2033	2030.94	5.00E+00	7.52	6.00E+00	2.51
	86	2109.42	2106 -	2111	2108.74	8.50E+00	8.66	7.00E+00	2.08
	87	2118.57	2113 -	2122	2117.90	4.64E+01	17.06	1.51E+01	2.13
	88	2204.17	2198 -	2209	2203.47	1.37E+02	25.38	1.20E+01	3.65
	89	2447.56	2442 -	2450	2446.84	4.45E+01	15.38	9.00E+00	2.83
	90	2580.54	2577 -	2582	2579.80	5.00E+00	4.47	0.00E+00	2.41
	91	2614.35	2609 -	2618	2613.60	4.30E+01	13.11	0.00E+00	1.58

Analysis Report for 1506043-03

FEEBRISID-09-088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/6/2015 7:09:09AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	14.07	12 -	17	2.21E+03	250.88	1.21E+04	2.10E+02
	2	27.41	25 -	29	2.37E+02	105.73	2.28E+03	8.31E+01
	3	32.19	31 -	34	2.40E+02	92.63	1.90E+03	7.18E+01
M	4	46.81	43 -	52	1.71E+03	135.00	2.68E+03	8.51E+01
m	5	50.11	43 -	52	2.85E+02	111.43	2.86E+03	8.79E+01
	6	67.87	65 -	71	3.11E+03	220.12	6.48E+03	1.56E+02
M	7	75.01	72 -	91	1.44E+03	118.10	2.50E+03	8.22E+01
m	8	80.92	72 -	91	6.72E+02	107.80	2.32E+03	7.91E+01
m	9	83.82	72 -	91	1.64E+03	122.34	2.25E+03	7.80E+01
m	10	87.00	72 -	91	4.42E+02	101.71	2.18E+03	7.68E+01
	11	94.46	92 -	97	3.86E+02	147.34	4.02E+03	1.17E+02
	12	122.67	121 -	125	1.11E+02	96.73	1.98E+03	7.76E+01
	13	144.09	141 -	148	7.01E+02	154.58	3.52E+03	1.19E+02
	14	154.28	151 -	157	3.73E+02	136.08	3.10E+03	1.07E+02
	15	186.20	182 -	190	1.08E+03	156.72	3.11E+03	1.17E+02
M	16	236.13	233 -	246	5.68E+02	75.29	8.27E+02	4.73E+01
m	17	239.06	233 -	246	1.81E+02	67.88	8.13E+02	4.69E+01
m	18	242.05	233 -	246	1.23E+03	91.65	7.93E+02	4.63E+01
M	19	255.50	251 -	265	3.75E+02	104.42	1.61E+03	6.60E+01
m	20	258.03	251 -	265	1.93E+02	105.07	1.50E+03	6.36E+01
	21	270.57	265 -	276	1.15E+03	143.71	2.01E+03	1.04E+02
	22	285.43	280 -	290	2.13E+02	117.76	1.73E+03	9.38E+01
M	23	295.31	291 -	307	2.79E+03	115.08	5.62E+02	3.90E+01
m	24	299.86	291 -	307	2.27E+02	64.08	6.55E+02	4.21E+01
m	25	303.33	291 -	307	1.11E+02	61.73	6.43E+02	4.17E+01
	26	324.02	320 -	327	1.65E+02	81.24	9.94E+02	6.34E+01
	27	329.92	328 -	332	1.57E+02	59.98	6.60E+02	4.48E+01
	28	338.26	335 -	340	8.34E+01	71.30	9.39E+02	5.67E+01
	29	351.92	348 -	356	5.19E+03	163.58	9.27E+02	6.36E+01
	30	389.27	385 -	392	8.27E+01	73.51	8.49E+02	5.85E+01
M	31	401.94	398 -	411	2.09E+02	57.19	5.50E+02	3.85E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	32	405.24	398 -	411	1.98E+02	54.72	5.01E+02	3.68E+01
	33	425.74	421 -	430	1.19E+02	81.82	8.71E+02	6.48E+01
	34	445.48	443 -	448	4.36E+01	47.31	4.11E+02	3.73E+01
	35	462.96	459 -	467	8.77E+01	60.07	4.95E+02	4.69E+01
	36	480.36	477 -	483	4.11E+01	49.78	4.16E+02	3.95E+01
	37	487.30	484 -	490	5.65E+01	47.82	3.75E+02	3.73E+01
	38	583.14	579 -	586	7.35E+01	49.44	3.55E+02	3.81E+01
	39	609.42	604 -	613	3.27E+03	126.16	4.06E+02	4.38E+01
	40	665.20	660 -	670	1.45E+02	53.76	3.08E+02	3.95E+01
	41	692.58	688 -	696	4.09E+01	44.76	2.82E+02	3.53E+01
	42	702.37	697 -	708	6.14E+01	59.70	4.17E+02	4.74E+01
	43	719.77	716 -	724	3.81E+01	41.25	2.38E+02	3.23E+01
	44	768.43	764 -	771	2.67E+02	50.32	2.44E+02	3.14E+01
	45	786.17	782 -	790	5.28E+01	47.98	3.16E+02	3.76E+01
	46	805.92	801 -	810	6.83E+01	49.46	3.11E+02	3.83E+01
	47	832.30	829 -	835	5.95E+01	39.51	2.39E+02	2.99E+01
	48	839.33	836 -	844	4.70E+01	45.39	2.88E+02	3.56E+01
	49	862.02	858 -	867	4.67E+01	44.86	2.63E+02	3.51E+01
	50	910.64	906 -	914	6.41E+01	45.65	2.76E+02	1.69E+01
	51	933.87	929 -	936	1.69E+02	45.96	2.38E+02	3.12E+01
M	52	965.55	958 -	973	3.38E+01	35.12	1.94E+02	2.29E+01
m	53	970.35	958 -	973	3.12E+01	31.48	1.60E+02	2.08E+01
	54	1120.44	1114 -	1125	7.17E+02	68.50	2.28E+02	3.51E+01
	55	1155.43	1152 -	1159	6.94E+01	37.74	1.89E+02	2.78E+01
	56	1238.38	1232 -	1243	2.73E+02	53.10	2.16E+02	3.42E+01
	57	1253.63	1246 -	1258	4.21E+01	41.41	1.82E+02	3.23E+01
M	58	1281.24	1277 -	1292	8.40E+01	29.78	1.02E+02	1.66E+01
m	59	1286.47	1277 -	1292	1.56E+01	23.98	8.92E+01	1.55E+01
	60	1336.12	1332 -	1339	2.58E+01	25.61	9.25E+01	1.93E+01
	61	1362.30	1358 -	1366	3.16E+01	29.16	1.09E+02	2.21E+01
M	62	1373.71	1372 -	1382	1.56E+01	10.20	2.26E+01	7.82E+00
m	63	1377.84	1372 -	1382	1.63E+02	34.57	9.95E+01	1.64E+01
M	64	1402.03	1396 -	1410	4.83E+01	31.37	1.40E+02	1.94E+01
m	65	1408.28	1396 -	1410	8.00E+01	28.60	9.87E+01	1.63E+01
	66	1433.21	1429 -	1436	2.48E+01	22.45	6.64E+01	1.65E+01
	67	1461.20	1456 -	1465	1.27E+02	35.06	9.89E+01	2.21E+01
	68	1510.07	1505 -	1516	1.06E+02	40.99	1.60E+02	2.91E+01
M	69	1522.03	1519 -	1530	2.29E+01	17.28	4.61E+01	1.12E+01
m	70	1527.77	1519 -	1530	2.71E+01	22.02	6.83E+01	1.36E+01
	71	1556.89	1553 -	1559	2.15E+01	18.85	4.90E+01	1.35E+01
	72	1584.07	1579 -	1588	5.48E+01	29.78	9.63E+01	2.12E+01
	73	1597.19	1592 -	1601	2.04E+01	26.34	8.12E+01	2.03E+01
M	74	1662.12	1654 -	1667	5.81E+01	23.56	2.66E+01	8.48E+00
m	75	1665.93	1654 -	1667	1.08E+01	14.46	1.25E+01	5.81E+00
	76	1729.85	1722 -	1735	1.28E+02	35.61	8.35E+01	2.26E+01
	77	1764.80	1758 -	1771	5.64E+02	51.32	4.20E+01	1.60E+01
	78	1777.80	1773 -	1781	1.30E+01	12.69	1.40E+01	8.58E+00
	79	1838.26	1833 -	1842	3.25E+01	17.46	2.51E+01	1.09E+01
M	80	1847.80	1843 -	1858	9.43E+01	22.80	2.19E+01	7.70E+00
m	81	1855.70	1843 -	1858	1.97E+01	12.96	9.80E+00	5.15E+00
	82	1873.41	1868 -	1876	1.44E+01	15.28	2.71E+01	1.09E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
83	1896.21	1887 -	1909	2.79E+01	34.67	8.23E+01	2.71E+01
84	2016.58	2013 -	2018	1.10E+01	10.20	1.20E+01	6.37E+00
85	2031.60	2027 -	2033	5.00E+00	7.52	6.00E+00	4.97E+00
86	2109.42	2106 -	2111	8.50E+00	8.66	7.00E+00	5.26E+00
87	2118.57	2113 -	2122	4.64E+01	17.06	1.51E+01	8.43E+00
88	2204.17	2198 -	2209	1.37E+02	25.38	1.20E+01	8.05E+00
89	2447.56	2442 -	2450	4.45E+01	15.38	9.00E+00	6.29E+00
90	2580.54	2577 -	2582	5.00E+00	4.47	0.00E+00	0.00E+00
91	2614.35	2609 -	2618	4.30E+01	13.11	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/6/2015 7:09:09AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	14.07	12 -	17	14.20	2.21E+03	250.88	1.21E+04	.....
	2	27.41	25 -	29	27.52	2.37E+02	105.73	2.28E+03	.....
	3	32.19	31 -	34	32.30	2.40E+02	92.63	1.90E+03	.....
M	4	46.81	43 -	52	46.91	1.71E+03	135.00	2.68E+03	PB-210
m	5	50.11	43 -	52	50.21	2.85E+02	111.43	2.86E+03	TH-227
									TE-132
	6	67.87	65 -	71	67.97	3.11E+03	220.12	6.48E+03	TI-44
									TA-182
									TH-230
M	7	75.01	72 -	91	75.10	1.44E+03	118.10	2.50E+03	AM-243
m	8	80.92	72 -	91	81.01	6.72E+02	107.80	2.32E+03	BA-133
									HF-172
m	9	83.82	72 -	91	83.90	1.64E+03	122.34	2.25E+03	TH-231
m	10	87.00	72 -	91	87.08	4.42E+02	101.71	2.18E+03	NP-237
									EU-155
									SN-126
	11	94.46	92 -	97	94.54	3.86E+02	147.34	4.02E+03	.....

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	12	122.67	121 -	125	122.73	1.11E+02	96.73	1.98E+03	EU-154 CO-57 EU-152
	13	144.09	141 -	148	144.14	7.01E+02	154.58	3.52E+03	U-235
	14	154.28	151 -	157	154.32	3.73E+02	136.08	3.10E+03	.....
	15	186.20	182 -	190	186.23	1.08E+03	156.72	3.11E+03	RA-226
M	16	236.13	233 -	246	236.13	5.68E+02	75.29	8.27E+02	TH-227 NB-95M
m	17	239.06	233 -	246	239.05	1.81E+02	67.88	8.13E+02	PB-212
m	18	242.05	233 -	246	242.04	1.23E+03	91.65	7.93E+02	.....
M	19	255.50	251 -	265	255.49	3.75E+02	104.42	1.61E+03	SN-113 TH-227
m	20	258.03	251 -	265	258.01	1.93E+02	105.07	1.50E+03	.....
	21	270.57	265 -	276	270.55	1.15E+03	143.71	2.01E+03	.....
	22	285.43	280 -	290	285.41	2.13E+02	117.76	1.73E+03	PM-149
M	23	295.31	291 -	307	295.28	2.79E+03	115.08	5.62E+02	PB-214
m	24	299.86	291 -	307	299.82	2.27E+02	64.08	6.55E+02	BI-210M PB-212 GA-67
m	25	303.33	291 -	307	303.29	1.11E+02	61.73	6.43E+02	BA-133 PA-231
	26	324.02	320 -	327	323.97	1.65E+02	81.24	9.94E+02	RA-223
	27	329.92	328 -	332	329.87	1.57E+02	59.98	6.60E+02	.....
	28	338.26	335 -	340	338.20	8.34E+01	71.30	9.39E+02	AC-228
	29	351.92	348 -	356	351.86	5.19E+03	163.58	9.27E+02	PB-214
	30	389.27	385 -	392	389.19	8.27E+01	73.51	8.49E+02	.....
M	31	401.94	398 -	411	401.85	2.09E+02	57.19	5.50E+02	RN-219
m	32	405.24	398 -	411	405.15	1.98E+02	54.72	5.01E+02	PB-211
	33	425.74	421 -	430	425.64	1.19E+02	81.82	8.71E+02	.....
	34	445.48	443 -	448	445.37	4.36E+01	47.31	4.11E+02	.....
	35	462.96	459 -	467	462.84	8.77E+01	60.07	4.95E+02	SB-125
	36	480.36	477 -	483	480.23	4.11E+01	49.78	4.16E+02	.....
	37	487.30	484 -	490	487.17	5.65E+01	47.82	3.75E+02	LA-140
	38	583.14	579 -	586	582.96	7.35E+01	49.44	3.55E+02	TL-208
	39	609.42	604 -	613	609.23	3.27E+03	126.16	4.06E+02	BI-214
	40	665.20	660 -	670	664.98	1.45E+02	53.76	3.08E+02	CE-143
	41	692.58	688 -	696	692.35	4.09E+01	44.76	2.82E+02	.....
	42	702.37	697 -	708	702.13	6.14E+01	59.70	4.17E+02	NB-94
	43	719.77	716 -	724	719.53	3.81E+01	41.25	2.38E+02	SB-126
	44	768.43	764 -	771	768.17	2.67E+02	50.32	2.44E+02	.....
	45	786.17	782 -	790	785.90	5.28E+01	47.98	3.16E+02	.....
	46	805.92	801 -	810	805.64	6.83E+01	49.46	3.11E+02	.....
	47	832.30	829 -	835	832.00	5.95E+01	39.51	2.39E+02	PB-211
	48	839.33	836 -	844	839.04	4.70E+01	45.39	2.88E+02	.....
	49	862.02	858 -	867	861.71	4.67E+01	44.86	2.63E+02	.....
	50	910.64	906 -	914	910.31	6.41E+01	45.65	2.76E+02	AC-228
	51	933.87	929 -	936	933.54	1.69E+02	45.96	2.38E+02	.....
M	52	965.55	958 -	973	965.20	3.38E+01	35.12	1.94E+02	.....
m	53	970.35	958 -	973	970.00	3.12E+01	31.48	1.60E+02	.....
	54	1120.44	1114 -	1125	1120.04	7.17E+02	68.50	2.28E+02	SC-46 BI-214 TA-182
	55	1155.43	1152 -	1159	1155.01	6.94E+01	37.74	1.89E+02	.....
	56	1238.38	1232 -	1243	1237.93	2.73E+02	53.10	2.16E+02	CO-56

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	57	1253.63	1246 -	1258	1253.18	4.21E+01	41.41	1.82E+02	.....
M	58	1281.24	1277 -	1292	1280.78	8.40E+01	29.78	1.02E+02	.....
m	59	1286.47	1277 -	1292	1286.00	1.56E+01	23.98	8.92E+01	.....
	60	1336.12	1332 -	1339	1335.63	2.58E+01	25.61	9.25E+01	.....
	61	1362.30	1358 -	1366	1361.81	3.16E+01	29.16	1.09E+02	.....
M	62	1373.71	1372 -	1382	1373.22	1.56E+01	10.20	2.26E+01	.....
m	63	1377.84	1372 -	1382	1377.35	1.63E+02	34.57	9.95E+01	.....
M	64	1402.03	1396 -	1410	1401.52	4.83E+01	31.37	1.40E+02	.....
m	65	1408.28	1396 -	1410	1407.78	8.00E+01	28.60	9.87E+01	EU-152
	66	1433.21	1429 -	1436	1432.69	2.48E+01	22.45	6.64E+01	.....
	67	1461.20	1456 -	1465	1460.68	1.27E+02	35.06	9.89E+01	K-40
	68	1510.07	1505 -	1516	1509.53	1.06E+02	40.99	1.60E+02	.....
M	69	1522.03	1519 -	1530	1521.49	2.29E+01	17.28	4.61E+01	.....
m	70	1527.77	1519 -	1530	1527.23	2.71E+01	22.02	6.83E+01	.....
	71	1556.89	1553 -	1559	1556.34	2.15E+01	18.85	4.90E+01	.....
	72	1584.07	1579 -	1588	1583.51	5.48E+01	29.78	9.63E+01	.....
	73	1597.19	1592 -	1601	1596.63	2.04E+01	26.34	8.12E+01	LA-140
M	74	1662.12	1654 -	1667	1661.54	5.81E+01	23.56	2.66E+01	.....
m	75	1665.93	1654 -	1667	1665.35	1.08E+01	14.46	1.25E+01	.....
	76	1729.85	1722 -	1735	1729.25	1.28E+02	35.61	8.35E+01	.....
	77	1764.80	1758 -	1771	1764.19	5.64E+02	51.32	4.20E+01	BI-214
	78	1777.80	1773 -	1781	1777.19	1.30E+01	12.69	1.40E+01	.....
	79	1838.26	1833 -	1842	1837.64	3.25E+01	17.46	2.51E+01	.....
M	80	1847.80	1843 -	1858	1847.17	9.43E+01	22.80	2.19E+01	.....
m	81	1855.70	1843 -	1858	1855.07	1.97E+01	12.96	9.80E+00	.....
	82	1873.41	1868 -	1876	1872.78	1.44E+01	15.28	2.71E+01	.....
	83	1896.21	1887 -	1909	1895.57	2.79E+01	34.67	8.23E+01	.....
	84	2016.58	2013 -	2018	2015.92	1.10E+01	10.20	1.20E+01	.....
	85	2031.60	2027 -	2033	2030.94	5.00E+00	7.52	6.00E+00	.....
	86	2109.42	2106 -	2111	2108.74	8.50E+00	8.66	7.00E+00	.....
	87	2118.57	2113 -	2122	2117.90	4.64E+01	17.06	1.51E+01	.....
	88	2204.17	2198 -	2209	2203.47	1.37E+02	25.38	1.20E+01	BI-214
	89	2447.56	2442 -	2450	2446.84	4.45E+01	15.38	9.00E+00	.....
	90	2580.54	2577 -	2582	2579.80	5.00E+00	4.47	0.00E+00	.....
	91	2614.35	2609 -	2618	2613.60	4.30E+01	13.11	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/6/2015 7:09:09AM

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	14.07	2.21E+03	250.88	1.28E-07	1.68E-03
	2	27.41	2.37E+02	105.73	9.54E-04	1.68E-03
	3	32.19	2.40E+02	92.63	2.86E-03	1.68E-03
M	4	46.81	1.71E+03	135.00	1.36E-02	1.68E-03
m	5	50.11	2.85E+02	111.43	1.61E-02	1.68E-03
	6	67.87	3.11E+03	220.12	2.54E-02	2.51E-03
M	7	75.01	1.44E+03	118.10	2.72E-02	3.21E-03
m	8	80.92	6.72E+02	107.80	2.80E-02	3.80E-03
m	9	83.82	1.64E+03	122.34	2.82E-02	4.09E-03
m	10	87.00	4.42E+02	101.71	2.84E-02	4.40E-03
	11	94.46	3.86E+02	147.34	2.85E-02	4.22E-03
	12	122.67	1.11E+02	96.73	2.66E-02	2.97E-03
	13	144.09	7.01E+02	154.58	2.46E-02	2.33E-03
	14	154.28	3.73E+02	136.08	2.37E-02	2.02E-03
	15	186.20	1.08E+03	156.72	2.11E-02	1.65E-03
M	16	236.13	5.68E+02	75.29	1.80E-02	1.60E-03
m	17	239.06	1.81E+02	67.88	1.79E-02	1.60E-03
m	18	242.05	1.23E+03	91.65	1.77E-02	1.60E-03
M	19	255.50	3.75E+02	104.42	1.71E-02	1.58E-03
m	20	258.03	1.93E+02	105.07	1.70E-02	1.58E-03
	21	270.57	1.15E+03	143.71	1.64E-02	1.57E-03
	22	285.43	2.13E+02	117.76	1.58E-02	1.53E-03
M	23	295.31	2.79E+03	115.08	1.55E-02	1.48E-03
m	24	299.86	2.27E+02	64.08	1.53E-02	1.46E-03
m	25	303.33	1.11E+02	61.73	1.52E-02	1.44E-03
	26	324.02	1.65E+02	81.24	1.45E-02	1.34E-03
	27	329.92	1.57E+02	59.98	1.43E-02	1.31E-03
	28	338.26	8.34E+01	71.30	1.41E-02	1.27E-03
	29	351.92	5.19E+03	163.58	1.37E-02	1.21E-03
	30	389.27	8.27E+01	73.51	1.28E-02	1.03E-03
M	31	401.94	2.09E+02	57.19	1.25E-02	1.01E-03
m	32	405.24	1.98E+02	54.72	1.24E-02	1.01E-03
	33	425.74	1.19E+02	81.82	1.20E-02	9.85E-04
	34	445.48	4.36E+01	47.31	1.16E-02	9.65E-04
	35	462.96	8.77E+01	60.07	1.13E-02	9.47E-04
	36	480.36	4.11E+01	49.78	1.10E-02	9.29E-04
	37	487.30	5.65E+01	47.82	1.09E-02	9.22E-04
	38	583.14	7.35E+01	49.44	9.58E-03	8.25E-04
	39	609.42	3.27E+03	126.16	9.27E-03	7.98E-04
	40	665.20	1.45E+02	53.76	8.67E-03	7.43E-04
	41	692.58	4.09E+01	44.76	8.40E-03	7.25E-04
	42	702.37	6.14E+01	59.70	8.31E-03	7.19E-04
	43	719.77	3.81E+01	41.25	8.15E-03	7.08E-04
	44	768.43	2.67E+02	50.32	7.74E-03	6.77E-04
	45	786.17	5.28E+01	47.98	7.60E-03	6.65E-04
	46	805.92	6.83E+01	49.46	7.45E-03	6.52E-04
	47	832.30	5.95E+01	39.51	7.26E-03	6.36E-04
	48	839.33	4.70E+01	45.39	7.21E-03	6.31E-04
	49	862.02	4.67E+01	44.86	7.06E-03	6.16E-04
	50	910.64	6.41E+01	45.65	6.75E-03	5.87E-04
	51	933.87	1.69E+02	45.96	6.61E-03	5.75E-04
M	52	965.55	3.38E+01	35.12	6.43E-03	5.59E-04
m	53	970.35	3.12E+01	31.48	6.41E-03	5.56E-04

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	54	1120.44	7.17E+02	68.50	5.70E-03	4.80E-04
	55	1155.43	6.94E+01	37.74	5.56E-03	4.62E-04
	56	1238.38	2.73E+02	53.10	5.27E-03	4.83E-04
	57	1253.63	4.21E+01	41.41	5.22E-03	4.90E-04
M	58	1281.24	8.40E+01	29.78	5.14E-03	5.03E-04
m	59	1286.47	1.56E+01	23.98	5.12E-03	5.05E-04
	60	1336.12	2.58E+01	25.61	4.98E-03	5.25E-04
	61	1362.30	3.16E+01	29.16	4.91E-03	5.14E-04
M	62	1373.71	1.56E+01	10.20	4.88E-03	5.09E-04
m	63	1377.84	1.63E+02	34.57	4.87E-03	5.08E-04
M	64	1402.03	4.83E+01	31.37	4.81E-03	4.98E-04
m	65	1408.28	8.00E+01	28.60	4.79E-03	4.95E-04
	66	1433.21	2.48E+01	22.45	4.73E-03	4.85E-04
	67	1461.20	1.27E+02	35.06	4.67E-03	4.73E-04
	68	1510.07	1.06E+02	40.99	4.57E-03	4.53E-04
M	69	1522.03	2.29E+01	17.28	4.55E-03	4.48E-04
m	70	1527.77	2.71E+01	22.02	4.54E-03	4.46E-04
	71	1556.89	2.15E+01	18.85	4.48E-03	4.33E-04
	72	1584.07	5.48E+01	29.78	4.44E-03	4.22E-04
	73	1597.19	2.04E+01	26.34	4.41E-03	4.17E-04
M	74	1662.12	5.81E+01	23.56	4.32E-03	3.90E-04
m	75	1665.93	1.08E+01	14.46	4.31E-03	3.88E-04
	76	1729.85	1.28E+02	35.61	4.23E-03	3.62E-04
	77	1764.80	5.64E+02	51.32	4.18E-03	3.47E-04
	78	1777.80	1.30E+01	12.69	4.17E-03	3.42E-04
	79	1838.26	3.25E+01	17.46	4.11E-03	3.18E-04
M	80	1847.80	9.43E+01	22.80	4.10E-03	3.18E-04
m	81	1855.70	1.97E+01	12.96	4.09E-03	3.18E-04
	82	1873.41	1.44E+01	15.28	4.08E-03	3.18E-04
	83	1896.21	2.79E+01	34.67	4.06E-03	3.18E-04
	84	2016.58	1.10E+01	10.20	3.99E-03	3.18E-04
	85	2031.60	5.00E+00	7.52	3.98E-03	3.18E-04
	86	2109.42	8.50E+00	8.66	3.95E-03	3.18E-04
	87	2118.57	4.64E+01	17.06	3.95E-03	3.18E-04
	88	2204.17	1.37E+02	25.38	3.93E-03	3.18E-04
	89	2447.56	4.45E+01	15.38	3.96E-03	3.18E-04
	90	2580.54	5.00E+00	4.47	4.03E-03	3.18E-04
	91	2614.35	4.30E+01	13.11	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/6/2015 7:09:09AM

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023838.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	14.07	2.21E+03	250.88	1.07E+03	4.13E+00	1.14E+03	2.51E+02
	2	27.41	2.37E+02	105.73			2.37E+02	1.06E+02
	3	32.19	2.40E+02	92.63			2.40E+02	9.26E+01
M	4	46.81	1.71E+03	135.00	4.57E+01	1.21E+01	1.67E+03	1.36E+02
m	5	50.11	2.85E+02	111.43			2.85E+02	1.11E+02
	6	67.87	3.11E+03	220.12			3.11E+03	2.20E+02
M	7	75.01	1.44E+03	118.10			1.44E+03	1.18E+02
m	8	80.92	6.72E+02	107.80			6.72E+02	1.08E+02
m	9	83.82	1.64E+03	122.34			1.64E+03	1.22E+02
m	10	87.00	4.42E+02	101.71			4.42E+02	1.02E+02
	11	94.46	3.86E+02	147.34			3.86E+02	1.47E+02
	12	122.67	1.11E+02	96.73			1.11E+02	9.67E+01
	13	144.09	7.01E+02	154.58	1.24E+01	5.54E-01	6.88E+02	1.55E+02
	14	154.28	3.73E+02	136.08			3.73E+02	1.36E+02
	15	186.20	1.08E+03	156.72	4.99E+01	7.82E+00	1.03E+03	1.57E+02
M	16	236.13	5.68E+02	75.29			5.68E+02	7.53E+01
m	17	239.06	1.81E+02	67.88	1.83E+01	3.09E+00	1.63E+02	6.80E+01
m	18	242.05	1.23E+03	91.65	6.22E+00	2.44E+00	1.23E+03	9.17E+01
M	19	255.50	3.75E+02	104.42			3.75E+02	1.04E+02
m	20	258.03	1.93E+02	105.07			1.93E+02	1.05E+02
	21	270.57	1.15E+03	143.71			1.15E+03	1.44E+02
	22	285.43	2.13E+02	117.76			2.13E+02	1.18E+02
M	23	295.31	2.79E+03	115.08			2.79E+03	1.15E+02
m	24	299.86	2.27E+02	64.08			2.27E+02	6.41E+01
m	25	303.33	1.11E+02	61.73			1.11E+02	6.17E+01
	26	324.02	1.65E+02	81.24			1.65E+02	8.12E+01
	27	329.92	1.57E+02	59.98			1.57E+02	6.00E+01
	28	338.26	8.34E+01	71.30			8.34E+01	7.13E+01
	29	351.92	5.19E+03	163.58	1.45E+01	5.36E+00	5.18E+03	1.64E+02
	30	389.27	8.27E+01	73.51			8.27E+01	7.35E+01
M	31	401.94	2.09E+02	57.19			2.09E+02	5.72E+01
m	32	405.24	1.98E+02	54.72			1.98E+02	5.47E+01
	33	425.74	1.19E+02	81.82			1.19E+02	8.18E+01
	34	445.48	4.36E+01	47.31			4.36E+01	4.73E+01
	35	462.96	8.77E+01	60.07			8.77E+01	6.01E+01
	36	480.36	4.11E+01	49.78			4.11E+01	4.98E+01
	37	487.30	5.65E+01	47.82			5.65E+01	4.78E+01
	38	583.14	7.35E+01	49.44	5.63E+00	4.06E+00	6.79E+01	4.96E+01
	39	609.42	3.27E+03	126.16	1.27E+01	3.78E+00	3.26E+03	1.26E+02
	40	665.20	1.45E+02	53.76			1.45E+02	5.38E+01
	41	692.58	4.09E+01	44.76			4.09E+01	4.48E+01
	42	702.37	6.14E+01	59.70			6.14E+01	5.97E+01
	43	719.77	3.81E+01	41.25			3.81E+01	4.12E+01
	44	768.43	2.67E+02	50.32			2.67E+02	5.03E+01
	45	786.17	5.28E+01	47.98			5.28E+01	4.80E+01
	46	805.92	6.83E+01	49.46			6.83E+01	4.95E+01
	47	832.30	5.95E+01	39.51			5.95E+01	3.95E+01
	48	839.33	4.70E+01	45.39			4.70E+01	4.54E+01
	49	862.02	4.67E+01	44.86			4.67E+01	4.49E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	50	910.64	6.41E+01	45.65			6.41E+01	4.56E+01
	51	933.87	1.69E+02	45.96			1.69E+02	4.60E+01
M	52	965.55	3.38E+01	35.12			3.38E+01	3.51E+01
m	53	970.35	3.12E+01	31.48			3.12E+01	3.15E+01
	54	1120.44	7.17E+02	68.50	4.63E+00	2.77E+00	7.13E+02	6.86E+01
	55	1155.43	6.94E+01	37.74			6.94E+01	3.77E+01
	56	1238.38	2.73E+02	53.10			2.73E+02	5.31E+01
	57	1253.63	4.21E+01	41.41			4.21E+01	4.14E+01
M	58	1281.24	8.40E+01	29.78			8.40E+01	2.98E+01
m	59	1286.47	1.56E+01	23.98			1.56E+01	2.40E+01
	60	1336.12	2.58E+01	25.61			2.58E+01	2.56E+01
	61	1362.30	3.16E+01	29.16			3.16E+01	2.92E+01
M	62	1373.71	1.56E+01	10.20			1.56E+01	1.02E+01
m	63	1377.84	1.63E+02	34.57			1.63E+02	3.46E+01
M	64	1402.03	4.83E+01	31.37			4.83E+01	3.14E+01
m	65	1408.28	8.00E+01	28.60			8.00E+01	2.86E+01
	66	1433.21	2.48E+01	22.45			2.48E+01	2.24E+01
	67	1461.20	1.27E+02	35.06	1.07E+01	2.49E+00	1.16E+02	3.51E+01
	68	1510.07	1.06E+02	40.99			1.06E+02	4.10E+01
M	69	1522.03	2.29E+01	17.28			2.29E+01	1.73E+01
m	70	1527.77	2.71E+01	22.02			2.71E+01	2.20E+01
	71	1556.89	2.15E+01	18.85			2.15E+01	1.89E+01
	72	1584.07	5.48E+01	29.78			5.48E+01	2.98E+01
	73	1597.19	2.04E+01	26.34			2.04E+01	2.63E+01
M	74	1662.12	5.81E+01	23.56			5.81E+01	2.36E+01
m	75	1665.93	1.08E+01	14.46			1.08E+01	1.45E+01
	76	1729.85	1.28E+02	35.61			1.28E+02	3.56E+01
	77	1764.80	5.64E+02	51.32	1.99E+00	2.17E+00	5.62E+02	5.14E+01
	78	1777.80	1.30E+01	12.69			1.30E+01	1.27E+01
	79	1838.26	3.25E+01	17.46			3.25E+01	1.75E+01
M	80	1847.80	9.43E+01	22.80			9.43E+01	2.28E+01
m	81	1855.70	1.97E+01	12.96			1.97E+01	1.30E+01
	82	1873.41	1.44E+01	15.28			1.44E+01	1.53E+01
	83	1896.21	2.79E+01	34.67			2.79E+01	3.47E+01
	84	2016.58	1.10E+01	10.20			1.10E+01	1.02E+01
	85	2031.60	5.00E+00	7.52			5.00E+00	7.52E+00
	86	2109.42	8.50E+00	8.66			8.50E+00	8.66E+00
	87	2118.57	4.64E+01	17.06			4.64E+01	1.71E+01
	88	2204.17	1.37E+02	25.38			1.37E+02	2.54E+01
	89	2447.56	4.45E+01	15.38			4.45E+01	1.54E+01
	90	2580.54	5.00E+00	4.47			5.00E+00	4.47E+00
	91	2614.35	4.30E+01	13.11	6.94E+00	1.61E+00	3.61E+01	1.32E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/6/2015 7:09:09AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023838.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	14.07	2.21E+03	250.88	1.07E+03	4.13E+00	1.14E+03	2.51E+02
	2	27.41	2.37E+02	105.73			2.37E+02	1.06E+02
	3	32.19	2.40E+02	92.63			2.40E+02	9.26E+01
M	4	46.81	1.71E+03	135.00	4.57E+01	1.21E+01	1.67E+03	1.36E+02
m	5	50.11	2.85E+02	111.43			2.85E+02	1.11E+02
	6	67.87	3.11E+03	220.12			3.11E+03	2.20E+02
M	7	75.01	1.44E+03	118.10			1.44E+03	1.18E+02
m	8	80.92	6.72E+02	107.80			6.72E+02	1.08E+02
m	9	83.82	1.64E+03	122.34			1.64E+03	1.22E+02
m	10	87.00	4.42E+02	101.71			4.42E+02	1.02E+02
	11	94.46	3.86E+02	147.34			3.86E+02	1.47E+02
	12	122.67	1.11E+02	96.73			1.11E+02	9.67E+01
	13	144.09	7.01E+02	154.58	1.24E+01	5.54E-01	6.88E+02	1.55E+02
	14	154.28	3.73E+02	136.08			3.73E+02	1.36E+02
	15	186.20	1.08E+03	156.72	4.99E+01	7.82E+00	1.03E+03	1.57E+02
M	16	236.13	5.68E+02	75.29			5.68E+02	7.53E+01
m	17	239.06	1.81E+02	67.88	1.83E+01	3.09E+00	1.63E+02	6.80E+01
m	18	242.05	1.23E+03	91.65	6.22E+00	2.44E+00	1.23E+03	9.17E+01
M	19	255.50	3.75E+02	104.42			3.75E+02	1.04E+02
m	20	258.03	1.93E+02	105.07			1.93E+02	1.05E+02
	21	270.57	1.15E+03	143.71			1.15E+03	1.44E+02
	22	285.43	2.13E+02	117.76			2.13E+02	1.18E+02
M	23	295.31	2.79E+03	115.08			2.79E+03	1.15E+02
m	24	299.86	2.27E+02	64.08			2.27E+02	6.41E+01
m	25	303.33	1.11E+02	61.73			1.11E+02	6.17E+01
	26	324.02	1.65E+02	81.24			1.65E+02	8.12E+01
	27	329.92	1.57E+02	59.98			1.57E+02	6.00E+01
	28	338.26	8.34E+01	71.30			8.34E+01	7.13E+01
	29	351.92	5.19E+03	163.58	1.45E+01	5.36E+00	5.18E+03	1.64E+02
	30	389.27	8.27E+01	73.51			8.27E+01	7.35E+01
M	31	401.94	2.09E+02	57.19			2.09E+02	5.72E+01
m	32	405.24	1.98E+02	54.72			1.98E+02	5.47E+01
	33	425.74	1.19E+02	81.82			1.19E+02	8.18E+01
	34	445.48	4.36E+01	47.31			4.36E+01	4.73E+01
	35	462.96	8.77E+01	60.07			8.77E+01	6.01E+01
	36	480.36	4.11E+01	49.78			4.11E+01	4.98E+01
	37	487.30	5.65E+01	47.82			5.65E+01	4.78E+01
	38	583.14	7.35E+01	49.44	5.63E+00	4.06E+00	6.79E+01	4.96E+01
	39	609.42	3.27E+03	126.16	1.27E+01	3.78E+00	3.26E+03	1.26E+02
	40	665.20	1.45E+02	53.76			1.45E+02	5.38E+01
	41	692.58	4.09E+01	44.76			4.09E+01	4.48E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	42	702.37	6.14E+01	59.70			6.14E+01	5.97E+01
	43	719.77	3.81E+01	41.25			3.81E+01	4.12E+01
	44	768.43	2.67E+02	50.32			2.67E+02	5.03E+01
	45	786.17	5.28E+01	47.98			5.28E+01	4.80E+01
	46	805.92	6.83E+01	49.46			6.83E+01	4.95E+01
	47	832.30	5.95E+01	39.51			5.95E+01	3.95E+01
	48	839.33	4.70E+01	45.39			4.70E+01	4.54E+01
	49	862.02	4.67E+01	44.86			4.67E+01	4.49E+01
	50	910.64	6.41E+01	45.65			6.41E+01	4.56E+01
	51	933.87	1.69E+02	45.96			1.69E+02	4.60E+01
M	52	965.55	3.38E+01	35.12			3.38E+01	3.51E+01
m	53	970.35	3.12E+01	31.48			3.12E+01	3.15E+01
	54	1120.44	7.17E+02	68.50	4.63E+00	2.77E+00	7.13E+02	6.86E+01
	55	1155.43	6.94E+01	37.74			6.94E+01	3.77E+01
	56	1238.38	2.73E+02	53.10			2.73E+02	5.31E+01
	57	1253.63	4.21E+01	41.41			4.21E+01	4.14E+01
M	58	1281.24	8.40E+01	29.78			8.40E+01	2.98E+01
m	59	1286.47	1.56E+01	23.98			1.56E+01	2.40E+01
	60	1336.12	2.58E+01	25.61			2.58E+01	2.56E+01
	61	1362.30	3.16E+01	29.16			3.16E+01	2.92E+01
M	62	1373.71	1.56E+01	10.20			1.56E+01	1.02E+01
m	63	1377.84	1.63E+02	34.57			1.63E+02	3.46E+01
M	64	1402.03	4.83E+01	31.37			4.83E+01	3.14E+01
m	65	1408.28	8.00E+01	28.60			8.00E+01	2.86E+01
	66	1433.21	2.48E+01	22.45			2.48E+01	2.24E+01
	67	1461.20	1.27E+02	35.06	1.07E+01	2.49E+00	1.16E+02	3.51E+01
	68	1510.07	1.06E+02	40.99			1.06E+02	4.10E+01
M	69	1522.03	2.29E+01	17.28			2.29E+01	1.73E+01
m	70	1527.77	2.71E+01	22.02			2.71E+01	2.20E+01
	71	1556.89	2.15E+01	18.85			2.15E+01	1.89E+01
	72	1584.07	5.48E+01	29.78			5.48E+01	2.98E+01
	73	1597.19	2.04E+01	26.34			2.04E+01	2.63E+01
M	74	1662.12	5.81E+01	23.56			5.81E+01	2.36E+01
m	75	1665.93	1.08E+01	14.46			1.08E+01	1.45E+01
	76	1729.85	1.28E+02	35.61			1.28E+02	3.56E+01
	77	1764.80	5.64E+02	51.32	1.99E+00	2.17E+00	5.62E+02	5.14E+01
	78	1777.80	1.30E+01	12.69			1.30E+01	1.27E+01
	79	1838.26	3.25E+01	17.46			3.25E+01	1.75E+01
M	80	1847.80	9.43E+01	22.80			9.43E+01	2.28E+01
m	81	1855.70	1.97E+01	12.96			1.97E+01	1.30E+01
	82	1873.41	1.44E+01	15.28			1.44E+01	1.53E+01
	83	1896.21	2.79E+01	34.67			2.79E+01	3.47E+01
	84	2016.58	1.10E+01	10.20			1.10E+01	1.02E+01
	85	2031.60	5.00E+00	7.52			5.00E+00	7.52E+00
	86	2109.42	8.50E+00	8.66			8.50E+00	8.66E+00
	87	2118.57	4.64E+01	17.06			4.64E+01	1.71E+01
	88	2204.17	1.37E+02	25.38			1.37E+02	2.54E+01
	89	2447.56	4.45E+01	15.38			4.45E+01	1.54E+01
	90	2580.54	5.00E+00	4.47			5.00E+00	4.47E+00
	91	2614.35	4.30E+01	13.11	6.94E+00	1.61E+00	3.61E+01	1.32E+01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.976	1460.81	*	10.67	5.29E+00	1.69E+00
CO-57	0.776	122.06	*	85.51	1.18E-01	1.04E-01
		136.48		10.60		
SN-126	0.949	87.57	*	37.00	9.58E-01	2.66E-01
LA-140	0.488	328.77		20.50		
		487.03	*	45.50	1.00E+00	8.54E-01
		815.85		23.50		
		1596.49	*	95.49	4.27E-01	5.54E-01
PM-149	0.509	285.90	*	3.10	2.52E+04	1.42E+04
EU-155	0.337	86.50	*	30.90	1.16E+00	3.21E-01
		105.30		20.70		
TA-182	0.483	67.75	*	41.20	7.87E+00	9.55E-01
		1121.30	*	34.90	9.48E+00	1.21E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.885	583.14	*	30.22	5.33E-01	3.92E-01
		860.37		4.48		
		2614.66	*	35.85	5.65E-01	2.12E-01
PB-210	0.985	46.50	*	4.25	6.57E+01	9.71E+00
PB-211	0.978	404.84	*	2.90	1.25E+01	3.59E+00
		831.96	*	2.90	6.43E+00	4.31E+00
PB-212	0.973	238.63	*	44.60	4.66E-01	1.99E-01
		300.09	*	3.41	9.89E+00	2.95E+00
BI-214	0.995	609.31	*	46.30	1.73E+01	1.63E+00
		1120.29	*	15.10	1.88E+01	2.41E+00
		1764.49	*	15.80	1.93E+01	2.39E+00
		2204.22	*	4.98	1.59E+01	3.22E+00
PB-214	0.999	295.21	*	19.19	2.14E+01	2.23E+00
		351.92	*	37.19	2.31E+01	2.16E+00
RN-219	0.997	401.80	*	6.50	5.83E+00	1.67E+00
RA-223	0.997	323.87	*	3.88	6.67E+00	3.34E+00
RA-226	1.000	186.21	*	3.28	3.38E+01	6.21E+01
TH-227	0.980	50.10	*	8.40	4.78E+00	1.94E+00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TH-227	0.980	236.00	*	11.50	6.24E+00	9.97E-01
		256.20	*	6.30	7.94E+00	2.33E+00
AC-228	0.556	338.32	*	11.40	1.18E+00	1.01E+00
		911.07	*	27.70	7.80E-01	5.60E-01
		969.11		16.60		
TH-231	0.604	25.64		14.70		
		84.21	*	6.40	2.06E+01	3.36E+00
NP-237	0.961	86.50	*	12.60	2.81E+00	7.80E-01
AM-243	0.982	74.67	*	66.00	1.82E+00	2.63E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/6/2015 7:09:09AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	14.07	3.16896E-01	11.00		
	2	27.41	6.58119E-02	22.31		
	3	32.19	6.66239E-02	19.31		
m	8	80.92	1.86798E-01	8.01	Tol.	BA-133 HF-172
	11	94.46	1.07326E-01	19.07	Sum	
	13	144.09	1.91244E-01	11.23	Tol.	U-235
	14	154.28	1.03677E-01	18.23	Sum	
m	18	242.05	3.40792E-01	3.74		
m	20	258.03	5.34994E-02	27.28		
	21	270.57	3.19815E-01	6.24	Sum	
m	25	303.33	3.09099E-02	27.74	Sum	
	27	329.92	4.36111E-02	19.10	Sum	
	30	389.27	2.29783E-02	44.43	Sum	
	33	425.74	3.31456E-02	34.29	Sum	
	34	445.48	1.21051E-02	54.28		
	35	462.96	2.43644E-02	34.24	Tol.	SB-125
	36	480.36	1.14056E-02	60.62	Sum	
	40	665.20	4.02778E-02	18.54	Tol.	CE-143

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	41	692.58	1.13660E-02	54.70	Sum	
	42	702.37	1.70463E-02	48.64	Sum	
	43	719.77	1.05945E-02	54.07	Tol.	SB-126
	44	768.43	7.41838E-02	9.42	Sum	
	45	786.17	1.46735E-02	45.41	Sum	
	46	805.92	1.89658E-02	36.22		
	48	839.33	1.30556E-02	48.28	Sum	
	49	862.02	1.29619E-02	48.06		
	51	933.87	4.69174E-02	13.60	Sum	
M	52	965.55	9.38335E-03	51.99		
m	53	970.35	8.65378E-03	50.52		
	55	1155.43	1.92649E-02	27.21	Sum	
	56	1238.38	7.57903E-02	9.73	Sum	
	57	1253.63	1.16823E-02	49.23	S-Esc	
M	58	1281.24	2.33425E-02	17.72		
m	59	1286.47	4.32998E-03	76.92		
	60	1336.12	7.15856E-03	49.69		
	61	1362.30	8.78068E-03	46.12		
M	62	1373.71	4.33909E-03	32.64		
m	63	1377.84	4.52831E-02	10.60		
M	64	1402.03	1.34205E-02	32.46		
m	65	1408.28	2.22235E-02	17.87		
	66	1433.21	6.88218E-03	45.31		
	68	1510.07	2.94892E-02	19.30		
M	69	1522.03	6.35658E-03	37.77	Sum	
m	70	1527.77	7.53429E-03	40.59		
	71	1556.89	5.97222E-03	43.85		
	72	1584.07	1.52346E-02	27.15	Sum	
M	74	1662.12	1.61408E-02	20.28		
m	75	1665.93	3.01016E-03	66.70	Sum	
	76	1729.85	3.56307E-02	13.88	Sum	
	78	1777.80	3.61111E-03	48.80		
	79	1838.26	9.01852E-03	26.90		
M	80	1847.80	2.62079E-02	12.08	Sum	
m	81	1855.70	5.48344E-03	32.83		
	82	1873.41	4.00794E-03	52.95		
	83	1896.21	7.73752E-03	62.23	Sum	
	84	2016.58	3.05556E-03	46.35		
	85	2031.60	1.38889E-03	75.17	Sum	
	86	2109.42	2.36111E-03	50.94		
	87	2118.57	1.28987E-02	18.37		
	89	2447.56	1.23611E-02	17.28		
	90	2580.54	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	5.29E+00	1.69E+00
CO-57	0.77	122.06	*	85.51	1.18E-01	1.04E-01
		136.48		10.60		
SN-126	0.94	87.57	*	37.00	9.58E-01	2.66E-01
LA-140	0.48	328.77		20.50		
		487.03	*	45.50	1.00E+00	8.54E-01
		815.85		23.50		
		1596.49	*	95.49	4.27E-01	5.54E-01
PM-149	0.50	285.90	*	3.10	2.52E+04	1.42E+04
EU-155	0.33	86.50	*	30.90	1.16E+00	3.21E-01
		105.30		20.70		
TA-182	0.48	67.75	*	41.20	7.87E+00	9.55E-01
		1121.30	*	34.90	9.48E+00	1.21E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.88	583.14	*	30.22	5.33E-01	3.92E-01
		860.37		4.48		
		2614.66	*	35.85	5.65E-01	2.12E-01
PB-210	0.98	46.50	*	4.25	6.57E+01	9.71E+00
PB-211	0.97	404.84	*	2.90	1.25E+01	3.59E+00
		831.96	*	2.90	6.43E+00	4.31E+00
PB-212	0.97	238.63	*	44.60	4.66E-01	1.99E-01
		300.09	*	3.41	9.89E+00	2.95E+00
BI-214	0.99	609.31	*	46.30	1.73E+01	1.63E+00
		1120.29	*	15.10	1.88E+01	2.41E+00
		1764.49	*	15.80	1.93E+01	2.39E+00
		2204.22	*	4.98	1.59E+01	3.22E+00
PB-214	0.99	295.21	*	19.19	2.14E+01	2.23E+00
		351.92	*	37.19	2.31E+01	2.16E+00
RN-219	0.99	401.80	*	6.50	5.83E+00	1.67E+00
RA-223	0.99	323.87	*	3.88	6.67E+00	3.34E+00
RA-226	1.00	186.21	*	3.28	3.38E+01	6.21E+01
TH-227	0.98	50.10	*	8.40	4.78E+00	1.94E+00
		236.00	*	11.50	6.24E+00	9.97E-01
		256.20	*	6.30	7.94E+00	2.33E+00
AC-228	0.55	338.32	*	11.40	1.18E+00	1.01E+00
		911.07	*	27.70	7.80E-01	5.60E-01
		969.11		16.60		
TH-231	0.60	25.64		14.70		
		84.21	*	6.40	2.06E+01	3.36E+00
NP-237	0.96	86.50	*	12.60	2.81E+00	7.80E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AM-243	0.98	74.67	*	66.00	1.82E+00	2.63E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.976	5.29E+00	1.69E+00	
	CO-57	0.776	1.18E-01	1.04E-01	
X	NB-95M	0.763			
?	SN-126	0.949	9.58E-01	2.66E-01	
	LA-140	0.488	5.98E-01	4.64E-01	
	PM-149	0.509	2.52E+04	1.42E+04	
?	EU-155	0.337	1.16E+00	3.21E-01	
	TA-182	0.483	5.48E+00	7.82E-01	
	TL-208	0.885	5.58E-01	1.86E-01	
	PB-210	0.985	6.57E+01	9.71E+00	
	PB-211	0.978	1.00E+01	2.76E+00	
	PB-212	0.973	5.09E-01	1.98E-01	
	BI-214	0.995	1.56E+01	1.15E+00	
	PB-214	0.999	2.23E+01	1.55E+00	
	RN-219	0.997	5.83E+00	1.67E+00	
	RA-223	0.997	6.67E+00	3.34E+00	
	RA-226	1.000	3.38E+01	6.21E+01	
	TH-227	0.980	6.19E+00	8.28E-01	
	AC-228	0.556	8.73E-01	4.90E-01	
	TH-231	0.604	2.06E+01	3.36E+00	
?	NP-237	0.961	2.81E+00	7.80E-01	
	AM-243	0.982	1.82E+00	2.63E-01	

Analysis Report for 1506043-03

FEEBRISID-09-088-089

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-03

FEEBRISID-09-088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/6/2015 7:09:09AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	14.07	3.16896E-01	11.00		
	2	27.41	6.58119E-02	22.31		
	3	32.19	6.66239E-02	19.31		
m	8	80.92	1.86798E-01	8.01	Tol.	BA-133 HF-172
	11	94.46	1.07326E-01	19.07	Sum	
	13	144.09	1.91244E-01	11.23	Tol.	U-235
	14	154.28	1.03677E-01	18.23	Sum	
m	18	242.05	3.40792E-01	3.74		
m	20	258.03	5.34994E-02	27.28		
	21	270.57	3.19815E-01	6.24	Sum	
m	25	303.33	3.09099E-02	27.74	Sum	
	27	329.92	4.36111E-02	19.10	Sum	
	30	389.27	2.29783E-02	44.43	Sum	
	33	425.74	3.31456E-02	34.29	Sum	
	34	445.48	1.21051E-02	54.28		
	35	462.96	2.43644E-02	34.24	Tol.	SB-125
	36	480.36	1.14056E-02	60.62	Sum	
	40	665.20	4.02778E-02	18.54	Tol.	CE-143
	41	692.58	1.13660E-02	54.70	Sum	
	42	702.37	1.70463E-02	48.64	Sum	
	43	719.77	1.05945E-02	54.07	Tol.	SB-126
	44	768.43	7.41838E-02	9.42	Sum	
	45	786.17	1.46735E-02	45.41	Sum	
	46	805.92	1.89658E-02	36.22		
	48	839.33	1.30556E-02	48.28	Sum	
	49	862.02	1.29619E-02	48.06		
	51	933.87	4.69174E-02	13.60	Sum	
M	52	965.55	9.38335E-03	51.99		
m	53	970.35	8.65378E-03	50.52		
	55	1155.43	1.92649E-02	27.21	Sum	
	56	1238.38	7.57903E-02	9.73	Sum	
	57	1253.63	1.16823E-02	49.23	S-Esc	
M	58	1281.24	2.33425E-02	17.72		

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	59	1286.47	4.32998E-03	76.92		
	60	1336.12	7.15856E-03	49.69		
	61	1362.30	8.78068E-03	46.12		
M	62	1373.71	4.33909E-03	32.64		
m	63	1377.84	4.52831E-02	10.60		
M	64	1402.03	1.34205E-02	32.46		
m	65	1408.28	2.22235E-02	17.87		
	66	1433.21	6.88218E-03	45.31		
	68	1510.07	2.94892E-02	19.30		
M	69	1522.03	6.35658E-03	37.77	Sum	
m	70	1527.77	7.53429E-03	40.59		
	71	1556.89	5.97222E-03	43.85		
	72	1584.07	1.52346E-02	27.15	Sum	
M	74	1662.12	1.61408E-02	20.28		
m	75	1665.93	3.01016E-03	66.70	Sum	
	76	1729.85	3.56307E-02	13.88	Sum	
	78	1777.80	3.61111E-03	48.80		
	79	1838.26	9.01852E-03	26.90		
M	80	1847.80	2.62079E-02	12.08	Sum	
m	81	1855.70	5.48344E-03	32.83		
	82	1873.41	4.00794E-03	52.95		
	83	1896.21	7.73752E-03	62.23	Sum	
	84	2016.58	3.05556E-03	46.35		
	85	2031.60	1.38889E-03	75.17	Sum	
	86	2109.42	2.36111E-03	50.94		
	87	2118.57	1.28987E-02	18.37		
	89	2447.56	1.23611E-02	17.28		
	90	2580.54	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)

Analysis Report for 1506043-03

FEEBRISID-09-088-089

+		BE-7	477.59		10.42	4.24E-02	1.68E+00	1.68E+00
+		NA-22	1274.54		99.94	3.71E-02	1.83E-01	1.83E-01
+		NA-24	1368.53		99.99	-3.55E+10	7.50E+10	1.96E+11
			2754.09		99.86	1.82E+10		7.50E+10
+		AL-26	1808.65		99.76	-5.86E-02	1.04E-01	1.04E-01
+		K-40	1460.81	*	10.67	5.29E+00	2.21E+00	2.21E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	3.14E+00	2.51E-01	3.01E-01
			78.34		96.00	1.71E+00		2.51E-01
+		SC-46	889.25		99.98	-3.26E-02	2.16E-01	2.16E-01
			1120.51		99.99	3.22E+00		6.45E-01
+		V-48	983.52		99.98	-2.48E-01	4.98E-01	4.98E-01
			1312.10		97.50	-8.52E-02		5.67E-01
+		CR-51	320.08		9.83	2.83E-01	2.51E+00	2.51E+00
+		MN-54	834.83		99.97	-5.47E-02	2.14E-01	2.14E-01
+		CO-56	846.75		99.96	-6.39E-02	2.01E-01	2.01E-01
			1037.75		14.03	-3.11E-01		1.56E+00
			1238.25		67.00	1.93E+00		6.93E-01
			1771.40		15.51	-1.26E+01		1.18E+00
			2598.48		16.90	-2.49E-01		4.47E-01
+		CO-57	122.06	*	85.51	1.18E-01	1.68E-01	1.68E-01
			136.48		10.60	-6.41E-01		1.40E+00
+		CO-58	810.76		99.40	-1.86E-02	2.13E-01	2.13E-01
+		FE-59	1099.22		56.50	2.82E-02	4.65E-01	4.65E-01
			1291.56		43.20	1.04E-01		5.27E-01
+		CO-60	1173.22		100.00	-2.58E-02	1.74E-01	1.88E-01
			1332.49		100.00	-3.70E-03		1.74E-01
+		ZN-65	1115.52		50.75	9.10E-02	4.14E-01	4.14E-01
+		GA-67	93.31		35.70	5.95E+01	1.01E+02	1.01E+02
			208.95		2.24	5.09E+02		1.39E+03
			300.22		16.00	-5.56E+01		2.20E+02
+		SE-75	121.11		16.70	1.41E-01	2.55E-01	9.29E-01
			136.00		59.20	1.09E-01		2.73E-01
			264.65		59.80	-2.89E-01		2.55E-01
			279.53		25.20	-6.10E-02		6.20E-01
			400.65		11.40	3.66E+00		1.94E+00
+		RB-82	776.52		13.00	-3.42E-01	2.38E+00	2.38E+00
+		RB-83	520.41		46.00	3.76E-02	3.24E-01	3.24E-01
			529.64		30.30	7.56E-02		5.14E-01
			552.65		16.40	1.19E-01		9.55E-01
+		KR-85	513.99		0.43	-2.50E+01	3.20E+01	3.20E+01
+		SR-85	513.99		99.27	-1.42E-01	1.82E-01	1.82E-01
+		Y-88	898.02		93.40	3.72E-02	1.98E-01	2.36E-01
			1836.01		99.38	-1.89E-02		1.98E-01
+		NB-93M	16.57		9.43	7.53E+04	2.48E+04	2.48E+04
+		NB-94	702.63		100.00	1.21E-01	1.76E-01	1.76E-01
			871.10		100.00	9.48E-02		1.85E-01
+		NB-95	765.79		99.81	1.26E+00	4.42E-01	4.42E-01
+		NB-95M	235.69	*	25.00	3.51E+02	1.50E+02	1.50E+02
+		ZR-95	724.18		43.70	1.43E-01	3.87E-01	4.55E-01
			756.72		55.30	8.95E-02		3.87E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	MO-99	181.06		6.20	4.51E+02	6.56E+02	1.34E+03
		739.58		12.80	-3.59E+02		6.56E+02
		778.00		4.50	-4.15E+01		1.91E+03
+	RU-103	497.08		89.00	-5.68E-02	2.12E-01	2.12E-01
+	RU-106	621.84		9.80	9.70E-01	1.54E+00	1.54E+00
+	AG-108M	433.93		89.90	-5.93E-02	1.35E-01	1.35E-01
		614.37		90.40	5.84E-02		1.89E-01
		722.95		90.50	1.99E-03		1.64E-01
+	CD-109	88.03		3.72	8.59E+00	5.60E+00	5.60E+00
+	AG-110M	657.75		93.14	-3.13E-03	1.63E-01	1.63E-01
		677.61		10.53	-2.86E-01		1.34E+00
		706.67		16.46	-1.03E-01		1.11E+00
		763.93		21.98	1.49E-02		8.18E-01
		884.67		71.63	-1.37E-02		2.47E-01
		1384.27		23.94	5.53E-01		9.20E-01
+	CD-113M	263.70		0.02	8.99E+01	5.85E+02	5.85E+02
+	SN-113	255.12		1.93	3.33E+01	2.69E-01	1.14E+01
		391.69		64.90	-3.40E-02		2.69E-01
+	TE123M	159.00		84.10	1.12E-01	2.08E-01	2.08E-01
+	SB-124	602.71		97.87	2.32E-02	2.13E-01	2.13E-01
		645.85		7.26	1.80E-01		2.62E+00
		722.78		11.10	2.16E-02		1.78E+00
		1691.02		49.00	1.42E-01		4.38E-01
+	I-125	35.49		6.49	1.30E+01	1.34E+01	1.34E+01
+	SB-125	176.33		6.89	5.09E-01	5.25E-01	2.22E+00
		427.89		29.33	3.45E-01		5.25E-01
		463.38		10.35	1.57E+00		1.42E+00
		600.56		17.80	-9.13E-02		9.03E-01
		635.90		11.32	3.54E-02		1.29E+00
+	SB-126	414.70		83.30	1.54E-01	6.44E-01	7.16E-01
		666.33		99.60	1.21E+00		7.83E-01
		695.00		99.60	1.10E-01		6.44E-01
		720.50		53.80	8.53E-01		1.19E+00
+	SN-126	87.57	*	37.00	9.58E-01	1.43E+00	1.43E+00
+	SB-127	473.00		25.00	-1.26E+01	3.83E+01	4.44E+01
		685.20		35.70	1.16E+01		3.83E+01
		783.80		14.70	1.59E+02		1.24E+02
+	I-129	29.78		57.00	-1.12E+01	2.90E+00	2.90E+00
		33.60		13.20	-1.10E+01		6.25E+00
		39.58		7.52	1.59E+00		5.43E+00
+	I-131	284.30		6.05	2.25E+01	1.40E+00	2.33E+01
		364.48		81.20	2.17E-01		1.40E+00
		636.97		7.26	9.24E-01		1.69E+01
		722.89		1.80	8.66E-01		7.14E+01
+	TE-132	49.72		13.10	8.28E+02	3.38E+01	3.95E+02
		228.16		88.00	-1.89E+01		3.38E+01
+	BA-133	81.00		33.00	1.83E+00	2.15E-01	5.52E-01
		302.84		17.80	-9.57E-01		9.21E-01
		356.01		60.00	-3.49E-02		2.15E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		I-133	529.87		86.30	3.49E+06	7.44E+07	7.44E+07
+		CS-134	563.23		8.38	-1.80E-01	1.96E-01	1.47E+00
			569.32		15.43	-4.74E-01		7.43E-01
			604.70		97.60	8.42E-03		2.90E-01
			795.84		85.40	3.55E-02		1.96E-01
			801.93		8.73	-9.72E-03		1.97E+00
+		CS-135	268.24		16.00	-2.94E-01	1.31E+00	1.31E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	2.09E+01	6.39E-01	8.82E+00
			163.89		4.61	-5.05E+00		1.17E+01
			176.55		13.56	1.73E-01		4.11E+00
			273.65		12.66	-1.25E+01		5.03E+00
			340.57		48.50	3.62E-01		1.19E+00
			818.50		99.70	-8.21E-02		6.39E-01
			1048.07		79.60	2.63E-01		8.86E-01
			1235.34		19.70	1.25E+01		6.44E+00
+		CS-137	661.65		85.12	-6.15E-04	1.79E-01	1.79E-01
+		LA-138	788.74		34.00	6.14E-01	2.62E-01	5.75E-01
			1435.80		66.00	1.09E-02		2.62E-01
+		CE-139	165.85		80.35	8.77E-02	2.08E-01	2.08E-01
+		BA-140	162.64		6.70	-3.95E-01	2.06E+00	8.35E+00
			304.84		4.50	3.79E+00		1.30E+01
			423.70		3.20	-1.15E+00		1.90E+01
			437.55		2.00	9.30E+00		2.53E+01
			537.32		25.00	-2.07E-01		2.06E+00
+		LA-140	328.77		20.50	3.61E+00	9.10E-01	3.13E+00
			487.03	*	45.50	1.00E+00		1.37E+00
			815.85		23.50	-4.83E-01		2.73E+00
			1596.49	*	95.49	4.27E-01		9.10E-01
+		CE-141	145.44		48.40	2.25E+00	6.58E-01	6.58E-01
+		CE-143	57.36		11.80	-5.47E+04	2.34E+05	4.51E+05
			293.26		42.00	6.46E+05		2.34E+05
			664.55		5.20	1.84E+06		1.13E+06
+		CE-144	133.54		10.80	-9.69E-02	1.34E+00	1.34E+00
+		PM-144	476.78		42.00	7.97E-03	1.49E-01	3.15E-01
			618.01		98.60	-5.74E-02		1.49E-01
			696.49		99.49	-1.79E-02		1.67E-01
+		PM-145	36.85		21.70	1.38E+00	1.31E+00	2.54E+00
			37.36		39.70	7.08E-01		1.31E+00
			42.30		15.10	-6.34E-02		2.18E+00
			72.40		2.31	-4.41E+00		6.50E+00
+		PM-146	453.90		39.94	1.22E-01	3.52E-01	3.52E-01
			735.90		14.01	3.44E-01		1.16E+00
			747.13		13.10	-3.50E-02		1.21E+00
+		ND-147	91.11		28.90	-7.40E+00	2.92E+00	2.92E+00
			531.02		13.10	-3.74E-01		4.73E+00
+		PM-149	285.90	*	3.10	2.52E+04	2.25E+04	2.25E+04

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	EU-152	121.78		20.50	4.85E-01	6.59E-01	6.59E-01
		244.69		5.40	-2.15E+01		3.12E+00
		344.27		19.13	3.97E-01		7.60E-01
		778.89		9.20	1.50E-01		1.73E+00
		964.01		10.40	-3.28E-01		1.88E+00
		1085.78		7.22	-3.10E-01		2.44E+00
		1112.02		9.60	4.91E-01		1.84E+00
		1407.95		14.94	8.05E-01		1.79E+00
+	GD-153	97.43		31.30	3.88E-01	5.00E-01	5.00E-01
		103.18		22.20	-3.08E-01		6.03E-01
+	EU-154	123.07		40.50	1.56E-01	3.34E-01	3.34E-01
		723.30		19.70	9.19E-03		7.58E-01
		873.19		11.50	6.92E-01		1.59E+00
		996.32		10.30	-2.30E-01		1.76E+00
		1004.76		17.90	6.66E-01		1.07E+00
		1274.45		35.50	1.03E-01		5.10E-01
+	EU-155	86.50	*	30.90	1.16E+00	6.10E-01	1.73E+00
		105.30		20.70	4.80E-02		6.10E-01
+	EU-156	811.77		10.40	2.55E-01	4.83E+00	4.83E+00
		1153.47		7.20	2.78E+00		1.11E+01
		1230.71		8.90	-8.72E-01		6.26E+00
+	HO-166M	184.41		72.60	-3.04E-02	2.81E-01	2.81E-01
		280.45		29.60	-4.51E-02		4.58E-01
		410.94		11.10	2.45E-01		1.28E+00
		711.69		54.10	1.25E-01		2.95E-01
+	TM-171	66.72		0.14	1.62E+03	2.05E+02	2.05E+02
+	HF-172	81.75		4.52	-3.63E+01	1.20E+00	4.04E+00
		125.81		11.30	4.94E-01		1.20E+00
+	LU-172	181.53		20.60	2.82E+00	3.59E+00	9.77E+00
		810.06		16.63	-1.16E+00		1.33E+01
		912.12		15.25	2.01E+00		1.77E+01
		1093.66		62.50	-1.25E+00		3.59E+00
+	LU-173	100.72		5.24	-2.71E+00	1.15E+00	2.58E+00
		272.11		21.20	2.71E+00		1.15E+00
+	HF-175	343.40		84.00	1.68E-01	2.27E-01	2.27E-01
+	LU-176	88.34		13.30	2.31E+00	1.54E-01	1.51E+00
		201.83		86.00	-5.51E-02		1.78E-01
		306.78		94.00	7.90E-02		1.54E-01
+	TA-182	67.75	*	41.20	7.87E+00	7.46E-01	7.96E-01
		1121.30	*	34.90	9.48E+00		9.77E-01
		1189.05		16.23	2.75E-01		1.25E+00
		1221.41		26.98	-9.21E-03		7.46E-01
		1231.02		11.44	-4.56E-01		1.77E+00
+	IR-192	308.46		29.68	2.30E-01	3.17E-01	5.87E-01
		468.07		48.10	7.43E-02		3.17E-01
+	HG-203	279.19		77.30	1.16E-01	2.63E-01	2.63E-01
+	BI-207	569.67		97.72	-7.32E-02	1.15E-01	1.15E-01
		1063.62		74.90	4.76E-02		2.37E-01
+	TL-208	583.14	*	30.22	5.33E-01	1.84E-01	6.26E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	860.37		4.48	-1.53E-01	1.84E-01	3.98E+00
		2614.66	*	35.85	5.65E-01		1.84E-01
+	BI-210M	262.00		45.00	-1.88E-01	3.11E-01	3.11E-01
		300.00		23.00	-1.89E-01		7.47E-01
+	PB-210	46.50	*	4.25	6.57E+01	1.30E+01	1.30E+01
+	PB-211	404.84	*	2.90	1.25E+01	6.76E+00	1.12E+01
		831.96	*	2.90	6.43E+00		6.76E+00
+	BI-212	727.17		11.80	4.84E-01	1.24E+00	1.24E+00
		1620.62		2.75	2.59E+00		6.91E+00
+	PB-212	238.63	*	44.60	4.66E-01	6.96E-01	6.96E-01
		300.09	*	3.41	9.89E+00		1.06E+01
+	BI-214	609.31	*	46.30	1.73E+01	4.84E-01	4.84E-01
		1120.29	*	15.10	1.88E+01		1.94E+00
		1764.49	*	15.80	1.93E+01		1.21E+00
		2204.22	*	4.98	1.59E+01		2.19E+00
+	PB-214	295.21	*	19.19	2.14E+01	5.83E-01	1.85E+00
		351.92	*	37.19	2.31E+01		5.83E-01
+	RN-219	401.80	*	6.50	5.83E+00	4.97E+00	4.97E+00
+	RA-223	323.87	*	3.88	6.67E+00	5.23E+00	5.23E+00
+	RA-224	240.98		3.95	3.66E+01	6.71E+00	6.71E+00
+	RA-225	40.00		31.00	1.19E+00	4.08E+00	4.08E+00
+	RA-226	186.21	*	3.28	3.38E+01	7.85E+00	7.85E+00
+	TH-227	50.10	*	8.40	4.78E+00	2.67E+00	5.53E+00
		236.00	*	11.50	6.24E+00		2.67E+00
		256.20	*	6.30	7.94E+00		5.54E+00
+	AC-228	338.32	*	11.40	1.18E+00	8.89E-01	1.64E+00
		911.07	*	27.70	7.80E-01		8.89E-01
		969.11		16.60	1.90E-01		1.24E+00
+	TH-230	48.44		16.90	-1.41E+01	1.53E+00	1.53E+00
		62.85		4.60	1.62E+00		3.79E+00
		67.67		0.37	8.03E+02		7.71E+01
+	PA-231	283.67		1.60	9.82E+00	7.09E+00	1.02E+01
		302.67		2.30	-7.37E+00		7.09E+00
+	TH-231	25.64		14.70	-5.65E+01	8.31E+00	3.70E+01
		84.21	*	6.40	2.06E+01		8.31E+00
+	PA-233	311.98		38.60	-7.47E-01	6.67E-01	6.67E-01
+	PA-234	131.20		20.40	-3.69E-01	6.51E-01	6.51E-01
		733.99		8.80	9.16E-01		1.83E+00
		946.00		12.00	4.16E-01		1.39E+00
+	PA-234M	1001.03		0.92	9.34E+00	2.10E+01	2.10E+01
+	TH-234	63.29		3.80	1.95E+00	4.56E+00	4.56E+00
+	U-235	143.76		10.50	6.56E+00	1.77E+00	1.77E+00
		163.35		4.70	-1.45E-01		3.07E+00
		205.31		4.70	-5.68E-01		3.23E+00
+	NP-237	86.50	*	12.60	2.81E+00	4.19E+00	4.19E+00
+	NP-239	106.10		22.70	-4.12E+02	8.68E+02	8.68E+02
		228.18		10.70	-1.20E+03		2.14E+03
		277.60		14.10	6.90E+02		1.54E+03

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54		35.90	-7.80E-02	4.77E-01	4.77E-01
+	AM-243	74.67	*	66.00	1.82E+00	8.39E-01	8.39E-01
+	CM-243	209.75		3.29	2.41E+00	9.81E-01	4.59E+00
		228.14		10.60	-7.67E-01		1.37E+00
		277.60		14.00	4.39E-01		9.81E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.68E+00	1.68E+00	4.24E-02	8.02E-01
	NA-22	1274.54		99.94	1.83E-01	1.83E-01	3.71E-02	8.56E-02
	NA-24	1368.53		99.99	1.96E+11	7.50E+10	-3.55E+10	9.07E+10
		2754.09		99.86	7.50E+10		1.82E+10	2.90E+10
	AL-26	1808.65		99.76	1.04E-01	1.04E-01	-5.86E-02	4.44E-02
+	K-40	1460.81	*	10.67	2.21E+00	2.21E+00	5.29E+00	1.04E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	3.01E-01	2.51E-01	3.14E+00	1.49E-01
		78.34		96.00	2.51E-01		1.71E+00	1.24E-01
	SC-46	889.25		99.98	2.16E-01	2.16E-01	-3.26E-02	1.02E-01
		1120.51		99.99	6.45E-01		3.22E+00	3.16E-01
	V-48	983.52		99.98	4.98E-01	4.98E-01	-2.48E-01	2.35E-01
		1312.10		97.50	5.67E-01		-8.52E-02	2.65E-01
	CR-51	320.08		9.83	2.51E+00	2.51E+00	2.83E-01	1.21E+00
	MN-54	834.83		99.97	2.14E-01	2.14E-01	-5.47E-02	1.03E-01
	CO-56	846.75		99.96	2.01E-01	2.01E-01	-6.39E-02	9.53E-02
		1037.75		14.03	1.56E+00		-3.11E-01	7.35E-01
		1238.25		67.00	6.93E-01		1.93E+00	3.36E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CO-56	1771.40		15.51	1.18E+00	2.01E-01	-1.26E+01	5.29E-01
		2598.48		16.90	4.47E-01		-2.49E-01	1.67E-01
+	CO-57	122.06	*	85.51	1.68E-01	1.68E-01	1.18E-01	8.28E-02
		136.48		10.60	1.40E+00		-6.41E-01	6.89E-01
	CO-58	810.76		99.40	2.13E-01	2.13E-01	-1.86E-02	1.01E-01
	FE-59	1099.22		56.50	4.65E-01	4.65E-01	2.82E-02	2.19E-01
		1291.56		43.20	5.27E-01		1.04E-01	2.43E-01
	CO-60	1173.22		100.00	1.88E-01	1.74E-01	-2.58E-02	8.85E-02
		1332.49		100.00	1.74E-01		-3.70E-03	8.08E-02
	ZN-65	1115.52		50.75	4.14E-01	4.14E-01	9.10E-02	1.96E-01
	GA-67	93.31		35.70	1.01E+02	1.01E+02	5.95E+01	4.99E+01
		208.95		2.24	1.39E+03		5.09E+02	6.82E+02
		300.22		16.00	2.20E+02		-5.56E+01	1.07E+02
	SE-75	121.11		16.70	9.29E-01	2.55E-01	1.41E-01	4.57E-01
		136.00		59.20	2.73E-01		1.09E-01	1.34E-01
		264.65		59.80	2.55E-01		-2.89E-01	1.24E-01
		279.53		25.20	6.20E-01		-6.10E-02	3.01E-01
		400.65		11.40	1.94E+00		3.66E+00	9.48E-01
	RB-82	776.52		13.00	2.38E+00	2.38E+00	-3.42E-01	1.13E+00
	RB-83	520.41		46.00	3.24E-01	3.24E-01	3.76E-02	1.54E-01
		529.64		30.30	5.14E-01		7.56E-02	2.45E-01
		552.65		16.40	9.55E-01		1.19E-01	4.55E-01
	KR-85	513.99		0.43	3.20E+01	3.20E+01	-2.50E+01	1.53E+01
	SR-85	513.99		99.27	1.82E-01	1.82E-01	-1.42E-01	8.71E-02
	Y-88	898.02		93.40	2.36E-01	1.98E-01	3.72E-02	1.12E-01
		1836.01		99.38	1.98E-01		-1.89E-02	9.02E-02
	NB-93M	16.57		9.43	2.48E+04	2.48E+04	7.53E+04	1.23E+04
	NB-94	702.63		100.00	1.76E-01	1.76E-01	1.21E-01	8.45E-02
		871.10		100.00	1.85E-01		9.48E-02	8.79E-02
	NB-95	765.79		99.81	4.42E-01	4.42E-01	1.26E+00	2.15E-01
	NB-95M	235.69	*	25.00	1.50E+02	1.50E+02	3.51E+02	7.44E+01
	ZR-95	724.18		43.70	4.55E-01	3.87E-01	1.43E-01	2.16E-01
		756.72		55.30	3.87E-01		8.95E-02	1.84E-01
	MO-99	181.06		6.20	1.34E+03	6.56E+02	4.51E+02	6.55E+02
		739.58		12.80	6.56E+02		-3.59E+02	3.12E+02
		778.00		4.50	1.91E+03		-4.15E+01	9.07E+02
	RU-103	497.08		89.00	2.12E-01	2.12E-01	-5.68E-02	1.01E-01
	RU-106	621.84		9.80	1.54E+00	1.54E+00	9.70E-01	7.34E-01
	AG-108M	433.93		89.90	1.35E-01	1.35E-01	-5.93E-02	6.47E-02
		614.37		90.40	1.89E-01		5.84E-02	9.08E-02
		722.95		90.50	1.64E-01		1.99E-03	7.79E-02
	CD-109	88.03		3.72	5.60E+00	5.60E+00	8.59E+00	2.77E+00
	AG-110M	657.75		93.14	1.63E-01	1.63E-01	-3.13E-03	7.76E-02
		677.61		10.53	1.34E+00		-2.86E-01	6.34E-01
		706.67		16.46	1.11E+00		-1.03E-01	5.29E-01
		763.93		21.98	8.18E-01		1.49E-02	3.90E-01
		884.67		71.63	2.47E-01		-1.37E-02	1.17E-01
		1384.27		23.94	9.20E-01		5.53E-01	4.31E-01
	CD-113M	263.70		0.02	5.85E+02	5.85E+02	8.99E+01	2.84E+02
	SN-113	255.12		1.93	1.14E+01	2.69E-01	3.33E+01	5.58E+00
		391.69		64.90	2.69E-01		-3.40E-02	1.30E-01
	TE123M	159.00		84.10	2.08E-01	2.08E-01	1.12E-01	1.02E-01
	SB-124	602.71		97.87	2.13E-01	2.13E-01	2.32E-02	1.02E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SB-124	645.85		7.26	2.62E+00	2.13E-01	1.80E-01	1.25E+00
		722.78		11.10	1.78E+00		2.16E-02	8.47E-01
		1691.02		49.00	4.38E-01		1.42E-01	1.99E-01
	I-125	35.49		6.49	1.34E+01	1.34E+01	1.30E+01	6.58E+00
	SB-125	176.33		6.89	2.22E+00	5.25E-01	5.09E-01	1.09E+00
		427.89		29.33	5.25E-01		3.45E-01	2.54E-01
		463.38		10.35	1.42E+00		1.57E+00	6.81E-01
		600.56		17.80	9.03E-01		-9.13E-02	4.33E-01
		635.90		11.32	1.29E+00		3.54E-02	6.16E-01
	SB-126	414.70		83.30	7.16E-01	6.44E-01	1.54E-01	3.46E-01
		666.33		99.60	7.83E-01		1.21E+00	3.77E-01
		695.00		99.60	6.44E-01		1.10E-01	3.07E-01
		720.50		53.80	1.19E+00		8.53E-01	5.64E-01
+	SN-126	87.57	*	37.00	1.43E+00	1.43E+00	9.58E-01	7.11E-01
	SB-127	473.00		25.00	4.44E+01	3.83E+01	-1.26E+01	2.12E+01
		685.20		35.70	3.83E+01		1.16E+01	1.82E+01
		783.80		14.70	1.24E+02		1.59E+02	5.95E+01
	I-129	29.78		57.00	2.90E+00	2.90E+00	-1.12E+01	1.42E+00
		33.60		13.20	6.25E+00		-1.10E+01	3.06E+00
		39.58		7.52	5.43E+00		1.59E+00	2.66E+00
	I-131	284.30		6.05	2.33E+01	1.40E+00	2.25E+01	1.14E+01
		364.48		81.20	1.40E+00		2.17E-01	6.74E-01
		636.97		7.26	1.69E+01		9.24E-01	8.03E+00
		722.89		1.80	7.14E+01		8.66E-01	3.39E+01
	TE-132	49.72		13.10	3.95E+02	3.38E+01	8.28E+02	1.94E+02
		228.16		88.00	3.38E+01		-1.89E+01	1.65E+01
	BA-133	81.00		33.00	5.52E-01	2.15E-01	1.83E+00	2.73E-01
		302.84		17.80	9.21E-01		-9.57E-01	4.49E-01
		356.01		60.00	2.15E-01		-3.49E-02	1.04E-01
	I-133	529.87		86.30	7.44E+07	7.44E+07	3.49E+06	3.55E+07
	CS-134	563.23		8.38	1.47E+00	1.96E-01	-1.80E-01	6.95E-01
		569.32		15.43	7.43E-01		-4.74E-01	3.51E-01
		604.70		97.60	2.90E-01		8.42E-03	1.41E-01
		795.84		85.40	1.96E-01		3.55E-02	9.31E-02
		801.93		8.73	1.97E+00		-9.72E-03	9.34E-01
	CS-135	268.24		16.00	1.31E+00	1.31E+00	-2.94E-01	6.41E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	8.82E+00	6.39E-01	2.09E+01	4.35E+00
		163.89		4.61	1.17E+01		-5.05E+00	5.75E+00
		176.55		13.56	4.11E+00		1.73E-01	2.02E+00
		273.65		12.66	5.03E+00		-1.25E+01	2.46E+00
		340.57		48.50	1.19E+00		3.62E-01	5.81E-01
		818.50		99.70	6.39E-01		-8.21E-02	3.04E-01
		1048.07		79.60	8.86E-01		2.63E-01	4.19E-01
		1235.34		19.70	6.44E+00		1.25E+01	3.11E+00
	CS-137	661.65		85.12	1.79E-01	1.79E-01	-6.15E-04	8.55E-02
	LA-138	788.74		34.00	5.75E-01	2.62E-01	6.14E-01	2.75E-01
		1435.80		66.00	2.62E-01		1.09E-02	1.21E-01
	CE-139	165.85		80.35	2.08E-01	2.08E-01	8.77E-02	1.02E-01
	BA-140	162.64		6.70	8.35E+00	2.06E+00	-3.95E-01	4.10E+00
		304.84		4.50	1.30E+01		3.79E+00	6.30E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-140	423.70		3.20	1.90E+01	2.06E+00	-1.15E+00	9.20E+00
		437.55		2.00	2.53E+01		9.30E+00	1.22E+01
		537.32		25.00	2.06E+00		-2.07E-01	9.82E-01
+	LA-140	328.77		20.50	3.13E+00	9.10E-01	3.61E+00	1.52E+00
		487.03	*	45.50	1.37E+00		1.00E+00	6.63E-01
		815.85		23.50	2.73E+00		-4.83E-01	1.30E+00
		1596.49	*	95.49	9.10E-01		4.27E-01	4.27E-01
	CE-141	145.44		48.40	6.58E-01	6.58E-01	2.25E+00	3.24E-01
	CE-143	57.36		11.80	4.51E+05	2.34E+05	-5.47E+04	2.22E+05
		293.26		42.00	2.34E+05		6.46E+05	1.16E+05
		664.55		5.20	1.13E+06		1.84E+06	5.44E+05
	CE-144	133.54		10.80	1.34E+00	1.34E+00	-9.69E-02	6.57E-01
	PM-144	476.78		42.00	3.15E-01	1.49E-01	7.97E-03	1.51E-01
		618.01		98.60	1.49E-01		-5.74E-02	7.08E-02
		696.49		99.49	1.67E-01		-1.79E-02	7.98E-02
	PM-145	36.85		21.70	2.54E+00	1.31E+00	1.38E+00	1.25E+00
		37.36		39.70	1.31E+00		7.08E-01	6.40E-01
		42.30		15.10	2.18E+00		-6.34E-02	1.07E+00
		72.40		2.31	6.50E+00		-4.41E+00	3.20E+00
	PM-146	453.90		39.94	3.52E-01	3.52E-01	1.22E-01	1.69E-01
		735.90		14.01	1.16E+00		3.44E-01	5.51E-01
		747.13		13.10	1.21E+00		-3.50E-02	5.76E-01
	ND-147	91.11		28.90	2.92E+00	2.92E+00	-7.40E+00	1.44E+00
		531.02		13.10	4.73E+00		-3.74E-01	2.25E+00
+	PM-149	285.90	*	3.10	2.25E+04	2.25E+04	2.52E+04	1.11E+04
	EU-152	121.78		20.50	6.59E-01	6.59E-01	4.85E-01	3.24E-01
		244.69		5.40	3.12E+00		-2.15E+01	1.53E+00
		344.27		19.13	7.60E-01		3.97E-01	3.69E-01
		778.89		9.20	1.73E+00		1.50E-01	8.19E-01
		964.01		10.40	1.88E+00		-3.28E-01	8.93E-01
		1085.78		7.22	2.44E+00		-3.10E-01	1.15E+00
		1112.02		9.60	1.84E+00		4.91E-01	8.62E-01
		1407.95		14.94	1.79E+00		8.05E-01	8.52E-01
	GD-153	97.43		31.30	5.00E-01	5.00E-01	3.88E-01	2.46E-01
		103.18		22.20	6.03E-01		-3.08E-01	2.96E-01
	EU-154	123.07		40.50	3.34E-01	3.34E-01	1.56E-01	1.64E-01
		723.30		19.70	7.58E-01		9.19E-03	3.60E-01
		873.19		11.50	1.59E+00		6.92E-01	7.55E-01
		996.32		10.30	1.76E+00		-2.30E-01	8.32E-01
		1004.76		17.90	1.07E+00		6.66E-01	5.05E-01
		1274.45		35.50	5.10E-01		1.03E-01	2.38E-01
+	EU-155	86.50	*	30.90	1.73E+00	6.10E-01	1.16E+00	8.60E-01
		105.30		20.70	6.10E-01		4.80E-02	3.00E-01
	EU-156	811.77		10.40	4.83E+00	4.83E+00	2.55E-01	2.29E+00
		1153.47		7.20	1.11E+01		2.78E+00	5.29E+00
		1230.71		8.90	6.26E+00		-8.72E-01	2.92E+00
	HO-166M	184.41		72.60	2.81E-01	2.81E-01	-3.04E-02	1.38E-01
		280.45		29.60	4.58E-01		-4.51E-02	2.22E-01
		410.94		11.10	1.28E+00		2.45E-01	6.15E-01
		711.69		54.10	2.95E-01		1.25E-01	1.41E-01
	TM-171	66.72		0.14	2.05E+02	2.05E+02	1.62E+03	1.01E+02
	HF-172	81.75		4.52	4.04E+00	1.20E+00	-3.63E+01	2.00E+00
		125.81		11.30	1.20E+00		4.94E-01	5.90E-01

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LU-172	181.53		20.60	9.77E+00	3.59E+00	2.82E+00	4.79E+00
		810.06		16.63	1.33E+01		-1.16E+00	6.31E+00
		912.12		15.25	1.77E+01		2.01E+00	8.46E+00
		1093.66		62.50	3.59E+00		-1.25E+00	1.68E+00
	LU-173	100.72		5.24	2.58E+00	1.15E+00	-2.71E+00	1.27E+00
		272.11		21.20	1.15E+00		2.71E+00	5.65E-01
	HF-175	343.40		84.00	2.27E-01	2.27E-01	1.68E-01	1.10E-01
	LU-176	88.34		13.30	1.51E+00	1.54E-01	2.31E+00	7.46E-01
		201.83		86.00	1.78E-01		-5.51E-02	8.71E-02
		306.78		94.00	1.54E-01		7.90E-02	7.47E-02
+	TA-182	67.75	*	41.20	7.96E-01	7.46E-01	7.87E+00	3.95E-01
		1121.30	*	34.90	9.77E-01		9.48E+00	4.70E-01
		1189.05		16.23	1.25E+00		2.75E-01	5.84E-01
		1221.41		26.98	7.46E-01		-9.21E-03	3.48E-01
		1231.02		11.44	1.77E+00		-4.56E-01	8.26E-01
	IR-192	308.46		29.68	5.87E-01	3.17E-01	2.30E-01	2.85E-01
		468.07		48.10	3.17E-01		7.43E-02	1.51E-01
	HG-203	279.19		77.30	2.63E-01	2.63E-01	1.16E-01	1.28E-01
	BI-207	569.67		97.72	1.15E-01	1.15E-01	-7.32E-02	5.42E-02
		1063.62		74.90	2.37E-01		4.76E-02	1.12E-01
+	TL-208	583.14	*	30.22	6.26E-01	1.84E-01	5.33E-01	3.02E-01
		860.37		4.48	3.98E+00		-1.53E-01	1.89E+00
		2614.66	*	35.85	1.84E-01		5.65E-01	7.10E-02
	BI-210M	262.00		45.00	3.11E-01	3.11E-01	-1.88E-01	1.51E-01
		300.00		23.00	7.47E-01		-1.89E-01	3.65E-01
+	PB-210	46.50	*	4.25	1.30E+01	1.30E+01	6.57E+01	6.43E+00
+	PB-211	404.84	*	2.90	1.12E+01	6.76E+00	1.25E+01	5.50E+00
		831.96	*	2.90	6.76E+00		6.43E+00	3.23E+00
	BI-212	727.17		11.80	1.24E+00	1.24E+00	4.84E-01	5.87E-01
		1620.62		2.75	6.91E+00		2.59E+00	3.20E+00
+	PB-212	238.63	*	44.60	6.96E-01	6.96E-01	4.66E-01	3.44E-01
		300.09	*	3.41	1.06E+01		9.89E+00	5.22E+00
+	BI-214	609.31	*	46.30	4.84E-01	4.84E-01	1.73E+01	2.35E-01
		1120.29	*	15.10	1.94E+00		1.88E+01	9.34E-01
		1764.49	*	15.80	1.21E+00		1.93E+01	5.59E-01
		2204.22	*	4.98	2.19E+00		1.59E+01	9.37E-01
+	PB-214	295.21	*	19.19	1.85E+00	5.83E-01	2.14E+01	9.13E-01
		351.92	*	37.19	5.83E-01		2.31E+01	2.86E-01
+	RN-219	401.80	*	6.50	4.97E+00	4.97E+00	5.83E+00	2.45E+00
+	RA-223	323.87	*	3.88	5.23E+00	5.23E+00	6.67E+00	2.56E+00
	RA-224	240.98		3.95	6.71E+00	6.71E+00	3.66E+01	3.31E+00
	RA-225	40.00		31.00	4.08E+00	4.08E+00	1.19E+00	2.00E+00
+	RA-226	186.21	*	3.28	7.85E+00	7.85E+00	3.38E+01	3.88E+00
+	TH-227	50.10	*	8.40	5.53E+00	2.67E+00	4.78E+00	2.74E+00
		236.00	*	11.50	2.67E+00		6.24E+00	1.32E+00
		256.20	*	6.30	5.54E+00		7.94E+00	2.74E+00
+	AC-228	338.32	*	11.40	1.64E+00	8.89E-01	1.18E+00	8.02E-01
		911.07	*	27.70	8.89E-01		7.80E-01	4.28E-01
		969.11		16.60	1.24E+00		1.90E-01	5.90E-01
	TH-230	48.44		16.90	1.53E+00	1.53E+00	-1.41E+01	7.52E-01
		62.85		4.60	3.79E+00		1.62E+00	1.87E+00
		67.67		0.37	7.71E+01		8.03E+02	3.82E+01
	PA-231	283.67		1.60	1.02E+01	7.09E+00	9.82E+00	4.96E+00

Analysis Report for 1506043-03

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PA-231	302.67		2.30	7.09E+00	7.09E+00	-7.37E+00	3.46E+00
+	TH-231	25.64		14.70	3.70E+01	8.31E+00	-5.65E+01	1.81E+01
		84.21	*	6.40	8.31E+00		2.06E+01	4.14E+00
	PA-233	311.98		38.60	6.67E-01	6.67E-01	-7.47E-01	3.23E-01
	PA-234	131.20		20.40	6.51E-01	6.51E-01	-3.69E-01	3.19E-01
		733.99		8.80	1.83E+00		9.16E-01	8.70E-01
		946.00		12.00	1.39E+00		4.16E-01	6.54E-01
	PA-234M	1001.03		0.92	2.10E+01	2.10E+01	9.34E+00	9.96E+00
	TH-234	63.29		3.80	4.56E+00	4.56E+00	1.95E+00	2.24E+00
	U-235	143.76		10.50	1.77E+00	1.77E+00	6.56E+00	8.72E-01
		163.35		4.70	3.07E+00		-1.45E-01	1.51E+00
		205.31		4.70	3.23E+00		-5.68E-01	1.58E+00
+	NP-237	86.50	*	12.60	4.19E+00	4.19E+00	2.81E+00	2.09E+00
	NP-239	106.10		22.70	8.68E+02	8.68E+02	-4.12E+02	4.27E+02
		228.18		10.70	2.14E+03		-1.20E+03	1.05E+03
		277.60		14.10	1.54E+03		6.90E+02	7.49E+02
	AM-241	59.54		35.90	4.77E-01	4.77E-01	-7.80E-02	2.35E-01
+	AM-243	74.67	*	66.00	8.39E-01	8.39E-01	1.82E+00	4.18E-01
	CM-243	209.75		3.29	4.59E+00	9.81E-01	2.41E+00	2.25E+00
		228.14		10.60	1.37E+00		-7.67E-01	6.68E-01
		277.60		14.00	9.81E-01		4.39E-01	4.77E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506043-03

FEEBRISID-09-088-089

No Data Review Comments Entered.

****
***** SPECTRAL DATA REPORT *****
****

Sample Title: FEEBRISID-09-088-089

Elapsed Live time: 3600
Elapsed Real Time: 3603

Channel								
1:	0	0	0	0	0	0	63	486
9:	992	1291	1014	865	2220	1478	1512	1694
17:	480	968	529	251	225	242	216	207
25:	237	223	309	390	217	247	247	406
33:	313	222	241	306	311	252	275	284
41:	320	294	317	334	382	750	1698	376
49:	330	572	476	314	425	458	370	388
57:	402	369	404	389	435	444	464	555
65:	477	492	937	2866	778	392	408	442
73:	525	558	1531	787	2073	1352	465	594
81:	973	681	522	1666	619	390	704	729
89:	483	541	406	296	409	428	656	305
97:	300	346	264	268	222	187	239	224
105:	186	201	208	223	212	231	194	221
113:	248	250	221	217	213	199	221	201
121:	199	258	234	224	185	208	221	209
129:	195	220	211	190	195	226	198	232
137:	210	222	212	231	199	227	287	680
145:	411	210	224	224	224	219	219	188
153:	245	474	391	214	191	255	231	211
161:	177	201	171	201	188	174	214	185
169:	186	147	183	199	170	196	176	169
177:	192	189	183	170	199	157	190	183
185:	232	856	504	182	158	170	167	147
193:	167	195	157	166	174	169	164	184
201:	149	179	128	160	171	156	154	144
209:	140	154	168	133	121	142	143	108
217:	136	106	120	125	127	131	128	106
225:	141	113	138	117	129	109	130	105
233:	105	117	180	513	204	190	228	127
241:	270	969	331	127	92	88	105	93
249:	102	113	108	100	114	162	148	286
257:	184	92	150	114	92	90	92	79
265:	80	82	75	112	343	413	395	235
273:	118	119	116	69	106	70	91	77
281:	84	75	104	133	106	150	98	99
289:	76	75	73	72	65	267	1749	955
297:	115	63	91	215	113	106	130	74
305:	100	74	58	69	99	60	67	63
313:	74	77	80	62	62	63	60	55
321:	69	64	92	147	100	79	56	76
329:	83	181	82	65	67	91	88	74
337:	73	152	98	68	72	80	81	68
345:	60	53	52	43	76	148	1254	3191
353:	780	59	50	56	53	37	50	42
361:	47	51	53	51	50	51	50	45

369:	46	59	46	57	35	50	49	43

Sample Title: FEEBRISID-09-088-089

Channel								
377:	58	47	48	42	50	57	54	49
385:	49	50	55	71	89	68	70	55
393:	58	55	64	52	75	42	65	48
401:	109	185	84	73	154	59	52	54
409:	43	57	41	51	61	45	52	56
417:	57	55	53	63	44	64	61	60
425:	52	62	87	44	43	38	34	43
433:	26	24	36	41	41	43	34	41
441:	39	40	32	42	61	38	42	34
449:	32	33	48	42	32	53	52	33
457:	30	41	22	41	42	44	55	51
465:	28	34	18	31	37	30	31	27
473:	31	37	26	35	33	23	43	52
481:	40	28	30	23	32	39	47	39
489:	36	28	26	31	32	23	22	31
497:	24	32	29	34	32	25	25	27
505:	35	24	26	35	46	63	85	43
513:	40	36	28	26	32	26	24	32
521:	29	19	22	22	25	26	23	30
529:	36	28	22	28	25	36	24	25
537:	42	29	28	32	30	20	32	28
545:	29	31	30	32	30	30	24	24
553:	24	30	19	23	22	28	24	28
561:	22	21	20	23	26	26	18	15
569:	20	25	17	29	20	25	25	26
577:	17	26	24	26	25	33	70	32
585:	23	18	22	17	26	21	20	19
593:	25	20	28	31	26	21	28	32
601:	20	28	25	19	30	21	38	404
609:	1776	1065	90	14	16	21	26	21
617:	16	18	14	20	18	28	21	17
625:	22	12	14	22	22	20	24	20
633:	21	19	19	21	21	18	16	16
641:	18	15	18	19	19	13	15	23
649:	22	18	20	10	16	19	21	15
657:	17	21	14	14	22	20	18	34
665:	73	49	19	20	17	13	15	15
673:	14	16	9	16	15	21	13	11
681:	16	18	25	19	16	21	17	16
689:	21	14	24	25	25	22	20	15
697:	15	21	25	13	25	30	31	21
705:	31	18	21	19	20	21	22	21
713:	23	14	11	16	16	18	25	20
721:	26	13	15	8	18	17	25	13
729:	19	12	15	16	27	19	22	15
737:	21	14	16	13	22	19	20	24
745:	13	10	24	18	14	22	18	16
753:	25	16	24	12	18	21	16	20
761:	14	9	21	8	16	23	47	163
769:	89	29	14	18	14	25	13	23
777:	19	7	16	11	27	15	14	21
785:	39	51	26	18	16	11	19	17
793:	13	20	22	16	15	15	21	12

801:	17	17	11	13	36	55	28	16

Sample Title: FEEBRISID-09-088-089

Channel								
809:	17	14	19	13	15	19	17	15
817:	17	14	23	19	22	25	17	13
825:	15	27	22	18	19	14	36	47
833:	27	17	19	13	25	28	36	22
841:	23	13	19	12	20	17	15	10
849:	14	20	20	13	20	21	14	21
857:	16	8	19	29	23	15	18	23
865:	16	18	9	19	19	13	21	16
873:	20	27	16	17	12	12	17	10
881:	16	15	14	14	19	15	11	18
889:	15	19	28	11	14	24	19	22
897:	19	8	22	21	21	13	20	23
905:	22	16	27	22	11	34	37	31
913:	14	10	15	17	20	21	17	18
921:	18	10	6	17	11	15	18	10
929:	15	20	19	20	56	99	46	13
937:	22	18	20	19	12	9	16	12
945:	11	17	13	14	11	10	14	18
953:	13	13	16	9	18	11	13	21
961:	10	12	13	24	30	17	21	23
969:	21	28	14	17	17	9	18	18
977:	12	22	13	8	13	10	14	17
985:	11	17	21	9	14	5	10	11
993:	18	15	11	15	14	18	11	19
1001:	19	21	19	10	13	12	18	7
1009:	11	8	8	7	13	12	9	7
1017:	15	14	14	7	10	8	15	10
1025:	10	8	14	10	12	10	9	14
1033:	15	19	11	12	12	19	10	7
1041:	18	10	13	10	9	11	22	22
1049:	10	10	19	14	13	12	14	11
1057:	15	14	15	10	16	15	16	9
1065:	11	11	8	10	15	15	14	11
1073:	5	11	8	13	17	15	11	18
1081:	13	11	11	15	12	7	14	13
1089:	11	10	12	8	13	12	10	10
1097:	13	14	24	5	10	8	10	14
1105:	9	8	14	9	14	7	12	19
1113:	10	5	13	14	13	26	148	348
1121:	190	32	8	17	17	6	9	12
1129:	8	11	9	9	14	13	11	10
1137:	18	16	7	4	9	6	15	13
1145:	13	5	13	7	6	11	19	7
1153:	8	30	59	30	11	8	11	11
1161:	15	6	5	13	11	11	8	10
1169:	16	6	11	9	18	15	8	16
1177:	14	11	6	8	19	17	9	11
1185:	8	7	8	10	15	9	9	12
1193:	6	10	14	13	5	9	9	9
1201:	12	10	7	10	7	15	9	16
1209:	15	13	9	13	11	7	14	5
1217:	14	6	7	11	12	13	6	11
1225:	12	7	14	14	7	6	6	11

1233:	11	11	10	15	78	131	57	23

Sample Title: FEEBRISID-09-088-089

Channel								
1241:	9	11	14	5	10	5	9	13
1249:	4	7	9	14	16	15	12	11
1257:	13	5	8	8	10	6	5	6
1265:	8	6	10	7	9	10	9	10
1273:	13	9	10	7	9	6	13	32
1281:	43	24	9	11	6	13	5	5
1289:	9	7	4	3	9	10	4	10
1297:	4	11	11	6	11	9	12	10
1305:	9	6	7	17	13	14	9	7
1313:	10	9	7	7	13	8	6	6
1321:	13	6	9	6	9	4	12	6
1329:	8	10	5	6	9	7	12	14
1337:	9	10	5	7	10	6	7	7
1345:	6	9	5	9	7	6	4	8
1353:	3	5	7	11	8	7	14	6
1361:	19	6	9	9	11	5	5	12
1369:	9	7	5	6	13	8	9	31
1377:	73	63	23	6	11	5	12	5
1385:	17	20	8	6	7	10	7	5
1393:	8	10	9	9	7	10	11	15
1401:	24	29	10	4	9	9	33	52
1409:	22	3	13	9	5	7	8	16
1417:	6	7	5	8	12	2	7	8
1425:	10	7	4	6	4	6	9	8
1433:	13	10	4	4	3	9	7	5
1441:	3	10	9	7	4	5	10	9
1449:	6	5	7	8	12	11	8	7
1457:	8	12	21	41	48	21	10	7
1465:	1	5	13	8	9	7	14	8
1473:	9	9	5	12	7	6	7	9
1481:	5	5	10	7	9	6	16	8
1489:	9	13	10	11	10	10	7	3
1497:	8	9	10	10	7	8	3	5
1505:	6	7	7	29	44	28	15	14
1513:	14	7	7	8	7	5	4	7
1521:	14	9	11	6	7	11	16	9
1529:	11	3	7	12	8	9	7	5
1537:	7	13	19	11	14	9	18	14
1545:	6	9	8	8	5	4	8	3
1553:	4	7	5	10	6	11	3	4
1561:	4	6	4	5	4	6	7	6
1569:	7	4	2	4	3	7	4	8
1577:	9	2	5	6	5	14	24	12
1585:	11	8	10	8	4	7	6	7
1593:	5	5	8	13	7	5	7	3
1601:	1	4	4	5	7	2	5	9
1609:	4	1	2	3	6	6	1	8
1617:	2	7	7	6	9	6	5	3
1625:	6	4	0	2	3	2	2	4
1633:	6	4	3	5	3	3	3	2
1641:	2	8	7	2	2	3	4	7
1649:	1	1	1	1	2	1	5	6
1657:	7	7	7	14	20	14	14	3

1665:	7	2	1	1	3	5	4	3

Sample Title: FEEBRISID-09-088-089

Channel								
1673:	6	4	1	3	3	3	7	2
1681:	0	3	4	6	2	3	2	1
1689:	5	5	4	4	7	4	1	2
1697:	4	3	3	0	2	6	4	2
1705:	8	2	3	5	2	1	2	6
1713:	1	2	2	2	3	6	0	3
1721:	4	1	2	5	5	6	2	25
1729:	44	46	13	9	5	4	3	4
1737:	1	2	3	3	1	3	1	2
1745:	4	2	5	5	1	2	1	2
1753:	3	5	3	3	3	0	3	2
1761:	6	35	112	196	165	47	6	6
1769:	6	1	0	3	1	2	2	5
1777:	5	2	2	1	0	0	1	1
1785:	1	0	7	0	3	2	2	3
1793:	1	3	1	2	4	2	2	0
1801:	2	2	3	2	2	1	0	1
1809:	0	2	3	1	2	4	2	0
1817:	2	2	2	3	2	3	2	4
1825:	3	2	2	3	2	3	2	1
1833:	0	4	5	1	10	7	5	4
1841:	7	2	2	3	7	27	32	27
1849:	8	4	1	2	3	2	8	3
1857:	3	0	1	4	0	3	1	3
1865:	2	1	4	0	1	3	5	5
1873:	3	7	3	1	1	3	2	2
1881:	0	0	1	1	2	2	1	2
1889:	2	9	4	3	3	2	4	8
1897:	3	3	3	3	1	4	4	2
1905:	1	1	4	1	1	3	0	3
1913:	3	0	2	4	3	3	3	1
1921:	2	3	2	2	4	3	1	2
1929:	1	1	3	2	2	5	2	4
1937:	5	1	3	0	3	0	1	3
1945:	1	3	2	1	4	3	3	1
1953:	1	5	1	3	1	3	1	2
1961:	4	3	1	3	3	4	5	3
1969:	1	4	4	1	3	0	1	3
1977:	1	1	2	2	1	2	0	3
1985:	1	0	4	1	2	4	2	2
1993:	2	0	2	1	1	1	4	0
2001:	2	2	2	1	3	1	1	1
2009:	3	6	5	0	2	2	3	3
2017:	7	0	2	0	2	1	1	1
2025:	0	0	0	0	1	2	1	4
2033:	0	2	0	2	1	3	2	0
2041:	0	1	2	0	2	2	2	1
2049:	3	2	1	1	2	1	4	1
2057:	0	0	2	2	4	1	0	1
2065:	2	2	0	2	2	1	1	2
2073:	0	0	0	5	2	1	2	2
2081:	1	1	1	1	0	2	2	2
2089:	1	3	0	1	1	2	0	3

2097:	1	2	0	3	0	2	2	3

Sample Title: FEEBRISID-09-088-089

Channel								
2105:	2	1	1	5	3	2	0	0
2113:	1	1	1	3	11	21	12	2
2121:	2	0	2	3	0	1	1	1
2129:	1	2	3	0	1	0	0	0
2137:	0	1	1	1	0	1	1	2
2145:	1	0	1	3	1	0	1	2
2153:	3	0	1	1	0	0	1	0
2161:	0	0	1	0	1	1	1	1
2169:	3	2	1	2	1	2	1	1
2177:	0	0	4	2	3	0	1	0
2185:	2	2	1	1	0	1	0	2
2193:	0	0	1	3	0	1	1	1
2201:	6	27	38	35	25	6	2	1
2209:	0	1	0	1	2	1	1	0
2217:	0	0	0	0	1	1	1	2
2225:	0	0	0	1	1	0	0	0
2233:	0	0	0	0	0	0	0	0
2241:	0	1	0	0	1	1	0	1
2249:	2	1	0	0	0	0	1	1
2257:	0	1	1	1	0	1	2	2
2265:	1	1	1	0	0	0	0	0
2273:	0	0	1	2	2	0	0	1
2281:	0	0	1	0	0	0	1	0
2289:	0	0	2	1	1	1	1	2
2297:	0	0	2	2	2	2	1	1
2305:	2	0	0	0	0	1	1	1
2313:	2	1	1	0	0	1	0	2
2321:	1	0	0	0	0	2	1	0
2329:	1	0	3	3	0	0	1	0
2337:	0	0	2	0	2	2	0	1
2345:	0	0	1	0	1	1	1	0
2353:	1	0	0	1	1	0	0	0
2361:	2	0	1	0	2	0	0	0
2369:	0	0	2	0	0	0	1	0
2377:	1	0	0	0	0	1	1	1
2385:	2	1	0	1	1	0	0	0
2393:	0	2	0	0	0	1	0	0
2401:	1	0	1	0	0	0	0	0
2409:	0	1	0	0	1	0	0	1
2417:	0	0	0	1	0	1	1	1
2425:	0	1	0	2	1	0	0	0
2433:	0	0	0	0	1	1	0	0
2441:	1	0	0	1	4	13	17	13
2449:	1	0	1	1	0	0	0	1
2457:	0	0	0	0	1	0	1	0
2465:	1	1	0	0	1	0	1	1
2473:	0	0	1	0	0	0	0	0
2481:	0	0	2	0	1	1	1	1
2489:	0	0	0	0	0	0	1	0
2497:	1	1	0	0	0	1	0	0
2505:	1	1	0	0	0	1	0	1
2513:	1	1	1	1	2	1	0	0
2521:	2	0	1	0	0	0	0	0

2529:	0	1	1	0	0	0	0	0

Sample Title: FEEBRISID-09-088-089

Channel								
2537:	0	0	2	2	1	0	1	1
2545:	0	0	0	0	0	1	0	0
2553:	1	2	1	0	0	0	0	0
2561:	0	0	0	0	0	1	0	0
2569:	0	0	0	0	0	1	1	0
2577:	0	0	2	2	1	0	0	0
2585:	0	0	0	0	1	0	0	3
2593:	0	0	2	0	0	1	0	0
2601:	0	0	0	3	0	0	0	0
2609:	0	1	0	8	9	18	3	3
2617:	1	0	0	1	0	1	1	0
2625:	0	1	1	0	1	2	0	0
2633:	0	0	0	1	0	0	1	2
2641:	1	1	0	1	0	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	0	0	0	0	0	0	1
2665:	0	0	0	1	1	0	1	0
2673:	0	0	0	0	0	0	0	1
2681:	0	0	0	0	1	0	1	0
2689:	1	0	0	0	0	0	0	0
2697:	0	1	0	0	0	0	1	0
2705:	0	1	0	0	0	0	1	1
2713:	0	0	0	0	0	0	0	0
2721:	1	0	0	0	0	0	2	0
2729:	0	0	0	0	1	1	0	0
2737:	0	0	2	0	0	0	0	0
2745:	1	0	0	1	0	1	1	0
2753:	0	2	0	0	0	0	0	0
2761:	0	0	0	1	0	0	1	0
2769:	2	0	1	0	0	0	0	1
2777:	1	1	0	0	0	2	0	0
2785:	1	0	0	0	1	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	0	0	1	0	0	0	0	1
2809:	2	0	0	0	0	1	1	0
2817:	1	0	0	1	0	0	0	1
2825:	0	0	0	0	0	2	0	0
2833:	0	1	0	0	0	0	0	0
2841:	0	0	0	0	1	0	0	0
2849:	1	0	1	0	0	1	0	1
2857:	0	0	0	0	0	2	0	0
2865:	0	0	0	1	0	0	0	0
2873:	0	1	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	0	0	0	1
2897:	0	1	0	0	0	0	1	0
2905:	0	1	1	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	1	0	0	0	0	0	1	0
2929:	0	1	0	0	0	0	0	0
2937:	0	0	0	1	0	0	0	0
2945:	0	2	0	1	1	0	1	0
2953:	0	0	0	0	0	1	0	0

2961:	0	0	0	0	1	0	1	0

Sample Title: FEEBRISID-09-088-089

Channel								
2969:	0	0	0	1	0	1	1	0
2977:	0	0	0	1	1	0	0	0
2985:	0	0	0	1	1	0	0	0
2993:	0	0	0	0	0	0	1	0
3001:	0	0	0	0	0	1	0	0
3009:	0	1	0	0	0	0	0	0
3017:	0	1	0	0	0	0	0	0
3025:	0	1	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	1	0	1	0	0	1	0	0
3049:	0	0	1	0	1	0	0	0
3057:	1	0	0	0	1	0	0	1
3065:	0	1	1	0	0	0	0	0
3073:	0	0	0	1	0	0	0	0
3081:	0	1	0	0	0	0	0	0
3089:	0	0	0	0	1	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	2	0	0	0	0	0	1
3113:	0	1	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	1	0	0
3137:	0	0	1	0	0	0	1	0
3145:	0	0	0	0	0	0	1	0
3153:	0	0	1	0	0	0	0	0
3161:	1	0	0	0	0	0	1	0
3169:	0	0	0	0	0	0	0	1
3177:	0	0	0	0	0	0	0	0
3185:	1	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	1	0
3201:	0	0	0	0	1	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	1	0
3225:	0	0	0	0	0	0	3	1
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	2	0	1	0	0	1	0	0
3265:	0	0	0	1	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	1	0	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	1	0	0	1	0	0	0
3321:	0	1	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	1
3337:	0	0	1	0	1	0	0	0
3345:	0	0	1	0	1	1	0	1
3353:	1	1	0	0	1	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	1

3393:	1	0	0	1	0	0	0	0

Sample Title: FEEBRISID-09-088-089

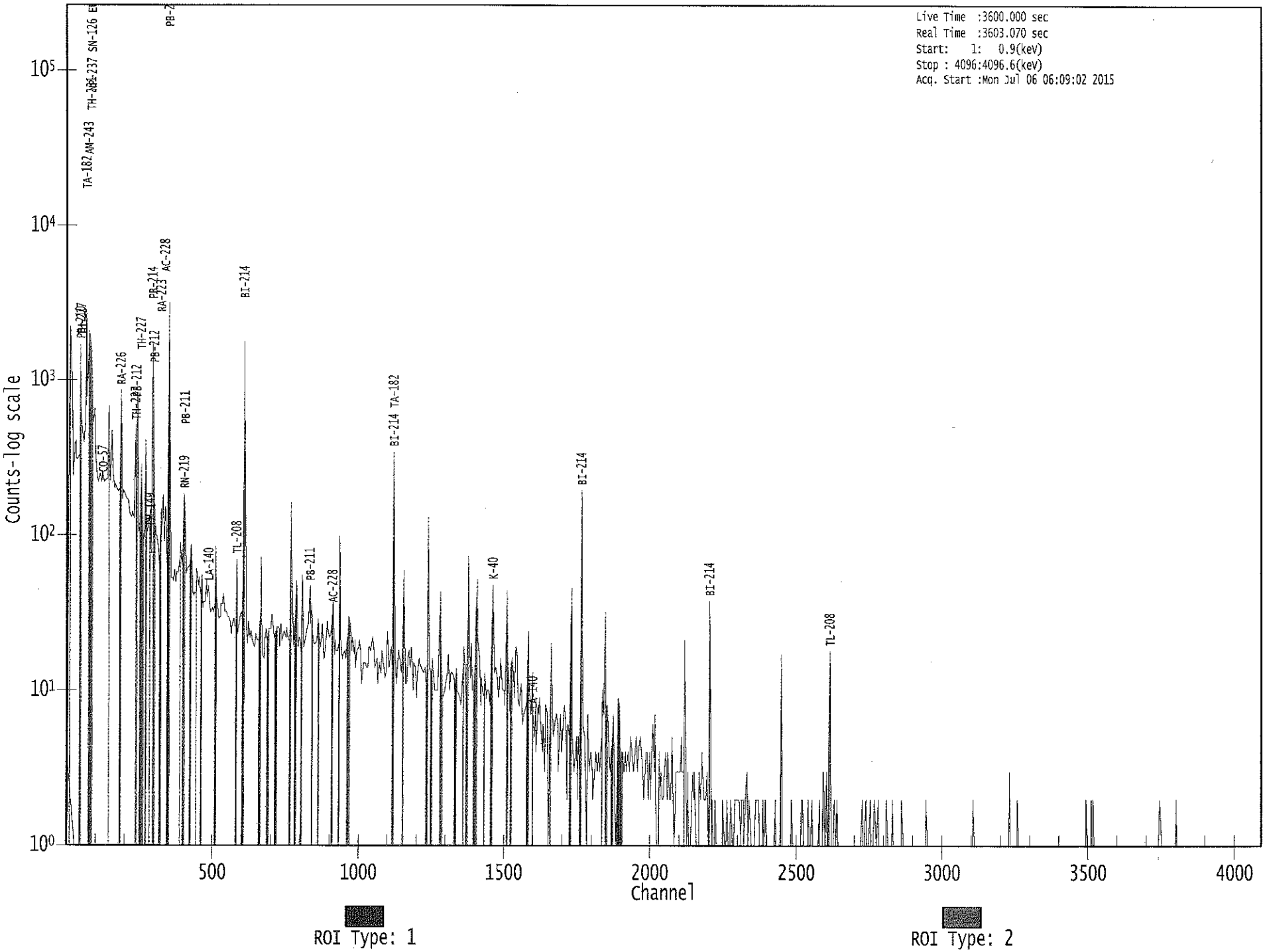
Channel							
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	1	0	0	0	0	0	0	1
3433:	0	0	0	0	0	0	0	0
3441:	0	1	0	0	1	0	1	0
3449:	0	0	0	0	0	0	1	0
3457:	0	0	0	0	0	0	1	1
3465:	0	0	1	0	0	1	0	1
3473:	0	1	0	0	0	1	0	0
3481:	0	0	0	0	0	1	0	0
3489:	0	0	0	0	2	1	0	1
3497:	0	1	0	0	0	0	1	0
3505:	0	0	0	0	0	2	0	1
3513:	0	0	0	0	2	0	0	0
3521:	0	0	0	0	0	0	0	1
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	1	0	0	0
3545:	1	0	1	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	1	0	1	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	1	0	0
3593:	0	0	1	0	0	0	0	0
3601:	0	1	0	1	0	0	0	0
3609:	0	0	1	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	1	0	1	0	0	0	0	0
3633:	1	0	0	0	0	0	1	0
3641:	0	0	0	0	0	1	0	0
3649:	0	0	0	0	0	0	0	0
3657:	1	0	0	0	0	0	1	0
3665:	0	1	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	1
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	1	0	0
3697:	0	0	1	0	0	0	0	0
3705:	0	0	0	1	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	1
3729:	1	0	0	0	0	0	0	0
3737:	1	0	0	0	1	0	0	0
3745:	2	0	0	0	0	0	0	1
3753:	0	0	0	1	0	1	1	0
3761:	0	0	0	0	1	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	1	1	0	0	0	1	1
3785:	0	1	0	0	0	1	0	0
3793:	1	0	0	0	0	0	0	0
3801:	0	2	0	0	0	0	0	0
3809:	0	1	0	0	0	0	0	1
3817:	0	0	0	0	0	0	0	1

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-09-088-089

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	1	0	0	0	1	0	0	0
3849:	0	0	1	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	1	0	0	0	0	0	0	1
3873:	1	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	1	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	1	1
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	1	0	0	0	0	1	1
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	1	0	0	0	1
3953:	0	1	0	0	0	0	0	0
3961:	1	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	1
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	1	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	1
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	0	0	0	0
4057:	0	0	0	0	1	0	0	0
4065:	0	0	0	0	0	0	1	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000023955.CNF



Apex-Gamma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506043-04
Sample Description	: FEEBRISID-09-088-089
Sample Type	: SOIL
Sample Size	: 3.300E+02 grams
Facility	: Countroom
Sample Taken On	: 6/11/2015 5:51:49AM
Acquisition Started	: 7/6/2015 7:12:35AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3603.1 seconds
Dead Time	: 0.09 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 23957

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/6/15

Analysis Report for 1506043-04

FEEBRISID-09-088-089

PEAK LOCATE REPORT

Peak Locate Performed on : 7/6/2015 8:12:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	14.04	14.16	0.0000	0.00
2	27.23	27.34	0.0000	0.00
3	31.99	32.10	0.0000	0.00
4	46.56	46.67	0.0000	0.00
5	67.84	67.93	0.0000	0.00
6	75.01	75.10	0.0000	0.00
7	80.84	80.93	0.0000	0.00
8	83.82	83.90	0.0000	0.00
9	87.82	87.90	0.0000	0.00
10	94.35	94.43	0.0000	0.00
11	112.73	112.79	0.0000	0.00
12	122.67	122.74	0.0000	0.00
13	144.05	144.10	0.0000	0.00
14	150.84	150.88	0.0000	0.00
15	154.30	154.35	0.0000	0.00
16	186.09	186.12	0.0000	0.00
17	236.10	236.10	0.0000	0.00
18	242.06	242.05	0.0000	0.00
19	255.25	255.24	0.0000	0.00
20	257.77	257.76	0.0000	0.00
21	266.38	266.36	0.0000	0.00
22	270.14	270.12	0.0000	0.00
23	286.17	286.14	0.0000	0.00
24	295.31	295.27	0.0000	0.00
25	300.10	300.07	0.0000	0.00
26	303.33	303.29	0.0000	0.00
27	323.92	323.88	0.0000	0.00
28	337.85	337.79	0.0000	0.00
29	351.93	351.86	0.0000	0.00
30	389.21	389.12	0.0000	0.00
31	401.97	401.88	0.0000	0.00
32	405.24	405.15	0.0000	0.00
33	427.06	426.95	0.0000	0.00
34	475.03	474.90	0.0000	0.00
35	480.71	480.58	0.0000	0.00
36	487.76	487.63	0.0000	0.00
37	495.72	495.58	0.0000	0.00
38	510.85	510.70	0.0000	0.00
39	544.58	544.42	0.0000	0.00
40	582.01	581.84	0.0000	0.00
41	609.45	609.25	0.0000	0.00
42	665.58	665.37	0.0000	0.00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	695.69	695.46	0.0000	0.00
44	703.40	703.17	0.0000	0.00
45	768.55	768.29	0.0000	0.00
46	786.39	786.11	0.0000	0.00
47	805.99	805.71	0.0000	0.00
48	831.69	831.39	0.0000	0.00
49	839.92	839.63	0.0000	0.00
50	892.87	892.55	0.0000	0.00
51	911.33	911.00	0.0000	0.00
52	934.12	933.78	0.0000	0.00
53	966.35	966.00	0.0000	0.00
54	981.22	980.86	0.0000	0.00
55	1116.62	1116.21	0.0000	0.00
56	1120.49	1120.08	0.0000	0.00
57	1134.37	1133.96	0.0000	0.00
58	1152.21	1151.79	0.0000	0.00
59	1155.34	1154.92	0.0000	0.00
60	1208.33	1207.89	0.0000	0.00
61	1238.60	1238.15	0.0000	0.00
62	1281.22	1280.75	0.0000	0.00
63	1303.00	1302.53	0.0000	0.00
64	1331.02	1330.53	0.0000	0.00
65	1357.60	1357.11	0.0000	0.00
66	1377.72	1377.23	0.0000	0.00
67	1385.59	1385.09	0.0000	0.00
68	1401.61	1401.11	0.0000	0.00
69	1407.98	1407.48	0.0000	0.00
70	1461.23	1460.70	0.0000	0.00
71	1473.97	1473.44	0.0000	0.00
72	1509.46	1508.92	0.0000	0.00
73	1539.78	1539.24	0.0000	0.00
74	1543.78	1543.24	0.0000	0.00
75	1556.45	1555.90	0.0000	0.00
76	1570.47	1569.91	0.0000	0.00
77	1584.05	1583.49	0.0000	0.00
78	1595.56	1595.00	0.0000	0.00
79	1632.12	1631.54	0.0000	0.00
80	1661.38	1660.80	0.0000	0.00
81	1693.13	1692.54	0.0000	0.00
82	1729.71	1729.12	0.0000	0.00
83	1764.74	1764.14	0.0000	0.00
84	1786.22	1785.61	0.0000	0.00
85	1847.51	1846.88	0.0000	0.00
86	1862.21	1861.59	0.0000	0.00
87	1889.07	1888.44	0.0000	0.00
88	1897.57	1896.94	0.0000	0.00
89	1939.67	1939.03	0.0000	0.00
90	2092.95	2092.27	0.0000	0.00
91	2110.52	2109.84	0.0000	0.00
92	2118.63	2117.95	0.0000	0.00
93	2184.07	2183.38	0.0000	0.00
94	2204.08	2203.39	0.0000	0.00
95	2251.99	2251.29	0.0000	0.00
96	2309.80	2309.09	0.0000	0.00
97	2447.93	2447.20	0.0000	0.00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
98	2613.84	2613.10	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/6/2015 8:12:49AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	14.04	12 -	17	14.16	2.53E+03	250.83	1.18E+04	1.28
M	2	27.23	24 -	34	27.34	3.17E+02	121.49	2.70E+03	1.95
m	3	31.99	24 -	34	32.10	3.73E+02	92.48	1.78E+03	1.43
	4	46.56	43 -	49	46.67	1.61E+03	186.09	5.15E+03	1.23
	5	67.84	66 -	71	67.93	3.15E+03	200.62	5.50E+03	1.22
M	6	75.01	72 -	91	75.10	1.51E+03	119.31	2.62E+03	1.10
m	7	80.84	72 -	91	80.93	6.97E+02	109.59	2.36E+03	1.10
m	8	83.82	72 -	91	83.90	1.61E+03	122.78	2.26E+03	1.10
m	9	87.82	72 -	91	87.90	5.12E+02	106.42	2.15E+03	1.11
	10	94.35	92 -	97	94.43	4.80E+02	145.47	3.82E+03	1.73
	11	112.73	110 -	115	112.79	1.02E+02	113.14	2.48E+03	1.50
	12	122.67	120 -	125	122.74	1.05E+02	112.03	2.44E+03	2.53
	13	144.05	140 -	147	144.10	7.28E+02	153.06	3.42E+03	1.29
M	14	150.84	149 -	157	150.88	8.43E+01	98.77	2.07E+03	1.52
m	15	154.30	149 -	157	154.35	3.93E+02	105.13	2.08E+03	1.52
	16	186.09	182 -	190	186.12	1.30E+03	154.77	2.88E+03	1.54
M	17	236.10	233 -	247	236.10	5.80E+02	77.67	9.24E+02	1.41
m	18	242.06	233 -	247	242.05	1.16E+03	90.58	8.27E+02	1.42
M	19	255.25	252 -	261	255.24	3.90E+02	85.54	1.15E+03	2.54
m	20	257.77	252 -	261	257.76	2.35E+02	104.36	1.45E+03	2.56
M	21	266.38	265 -	276	266.36	3.53E+01	32.23	3.18E+02	1.47
m	22	270.14	265 -	276	270.12	1.09E+03	118.94	1.44E+03	2.85
	23	286.17	284 -	289	286.14	8.63E+01	76.19	1.05E+03	1.27
M	24	295.31	291 -	307	295.27	2.76E+03	115.10	5.83E+02	1.45
m	25	300.10	291 -	307	300.07	2.12E+02	64.26	6.59E+02	1.66
m	26	303.33	291 -	307	303.29	1.30E+02	62.93	6.47E+02	1.66
M	27	323.92	321 -	342	323.88	1.50E+02	56.92	6.01E+02	1.58
m	28	337.85	321 -	342	337.79	1.27E+02	66.61	7.71E+02	1.88
	29	351.93	348 -	356	351.86	5.02E+03	163.32	1.00E+03	1.47
	30	389.21	384 -	395	389.12	1.69E+02	100.42	1.18E+03	5.16
M	31	401.97	398 -	409	401.88	2.16E+02	57.82	5.61E+02	1.64
m	32	405.24	398 -	409	405.15	1.07E+02	55.28	5.48E+02	1.64
	33	427.06	424 -	430	426.95	5.74E+01	64.18	7.01E+02	1.39
	34	475.03	472 -	478	474.90	7.83E+01	47.98	3.57E+02	4.69
	35	480.71	479 -	484	480.58	5.40E+01	42.13	3.16E+02	2.06
	36	487.76	484 -	491	487.63	7.82E+01	52.57	4.10E+02	1.15
	37	495.72	493 -	498	495.58	3.52E+01	40.77	3.02E+02	1.05
	38	510.85	507 -	515	510.70	1.33E+02	61.09	4.87E+02	2.70
	39	544.58	540 -	549	544.42	8.70E+01	52.94	3.40E+02	4.53
	40	582.01	578 -	590	581.84	6.84E+01	73.81	6.01E+02	3.77

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	609.45	604	613	609.25	3.33E+03	128.62	4.63E+02	1.74
	42	665.58	662	668	665.37	4.60E+01	43.43	3.12E+02	1.88
	43	695.69	692	699	695.46	3.26E+01	39.24	2.33E+02	4.07
	44	703.40	700	707	703.17	8.35E+01	41.90	2.39E+02	1.67
	45	768.55	764	773	768.29	3.20E+02	57.46	2.86E+02	2.14
	46	786.39	784	789	786.11	6.92E+01	33.66	1.72E+02	1.81
	47	805.99	802	809	805.71	4.90E+01	41.13	2.52E+02	1.27
	48	831.69	826	835	831.39	8.48E+01	49.40	3.00E+02	1.57
	49	839.92	836	844	839.63	4.25E+01	46.49	3.07E+02	1.92
	50	892.87	890	895	892.55	2.74E+01	28.11	1.33E+02	3.21
	51	911.33	908	915	911.00	4.84E+01	41.62	2.57E+02	2.76
	52	934.12	929	938	933.78	1.98E+02	50.09	2.46E+02	1.53
	53	966.35	961	972	966.00	1.09E+02	44.45	1.94E+02	7.01
	54	981.22	977	984	980.86	3.94E+01	32.56	1.47E+02	3.83
M	55	1116.62	1115	1126	1116.21	1.97E+01	14.92	4.82E+01	2.31
m	56	1120.49	1115	1126	1120.08	6.99E+02	58.06	1.05E+02	1.99
	57	1134.37	1127	1141	1133.96	7.75E+01	50.79	2.35E+02	3.16
M	58	1152.21	1150	1160	1151.79	2.11E+01	17.20	5.14E+01	1.97
m	59	1155.34	1150	1160	1154.92	1.02E+02	31.81	1.06E+02	2.33
	60	1208.33	1205	1212	1207.89	2.70E+01	30.07	1.34E+02	1.85
	61	1238.60	1233	1244	1238.15	2.90E+02	51.42	1.84E+02	2.42
	62	1281.22	1277	1285	1280.75	6.05E+01	32.23	1.25E+02	2.43
	63	1303.00	1299	1307	1302.53	2.12E+01	24.83	8.37E+01	2.48
	64	1331.02	1328	1333	1330.53	2.29E+01	20.95	7.02E+01	3.73
	65	1357.60	1353	1362	1357.11	2.40E+01	28.21	1.00E+02	3.57
M	66	1377.72	1371	1392	1377.23	2.09E+02	35.85	7.43E+01	2.49
m	67	1385.59	1371	1392	1385.09	4.56E+01	24.61	8.12E+01	2.49
M	68	1401.61	1395	1412	1401.11	6.89E+01	28.07	9.40E+01	2.76
m	69	1407.98	1395	1412	1407.48	1.16E+02	32.50	9.08E+01	2.68
	70	1461.23	1456	1466	1460.70	1.62E+02	36.11	8.64E+01	2.31
	71	1473.97	1471	1476	1473.44	1.85E+01	17.78	4.91E+01	3.25
	72	1509.46	1504	1513	1508.92	8.57E+01	39.17	1.71E+02	1.59
M	73	1539.78	1536	1553	1539.24	3.58E+01	21.33	6.86E+01	2.59
m	74	1543.78	1536	1553	1543.24	4.18E+01	24.83	6.64E+01	2.49
	75	1556.45	1554	1558	1555.90	1.71E+01	13.36	2.37E+01	2.76
	76	1570.47	1565	1577	1569.91	3.38E+01	31.01	9.65E+01	3.08
M	77	1584.05	1578	1612	1583.49	3.85E+01	25.22	6.61E+01	3.17
m	78	1595.56	1578	1612	1595.00	2.29E+01	17.86	4.20E+01	2.39
	79	1632.12	1628	1636	1631.54	1.51E+01	19.25	4.39E+01	1.80
	80	1661.38	1657	1665	1660.80	3.92E+01	20.55	4.16E+01	1.79
	81	1693.13	1687	1697	1692.54	2.19E+01	22.24	5.22E+01	1.45
	82	1729.71	1724	1736	1729.12	1.32E+02	32.13	6.19E+01	2.91
	83	1764.74	1757	1771	1764.14	5.99E+02	48.95	0.00E+00	2.78
	84	1786.22	1783	1789	1785.61	9.73E+00	7.50	2.55E+00	2.35
	85	1847.51	1842	1850	1846.88	7.45E+01	21.76	2.70E+01	2.76
	86	1862.21	1858	1864	1861.59	1.13E+01	11.88	1.74E+01	2.96
	87	1889.07	1885	1893	1888.44	2.50E+01	10.00	0.00E+00	4.88
	88	1897.57	1893	1900	1896.94	1.31E+01	11.14	1.19E+01	3.54
	89	1939.67	1932	1948	1939.03	2.60E+01	26.94	5.80E+01	8.41
	90	2092.95	2088	2095	2092.27	6.94E+00	7.21	4.11E+00	2.92
M	91	2110.52	2104	2122	2109.84	7.85E+00	13.22	1.32E+01	3.54
m	92	2118.63	2104	2122	2117.95	3.59E+01	15.26	1.53E+01	3.55
	93	2184.07	2180	2187	2183.38	5.81E+00	6.93	4.38E+00	3.09

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
94	2204.08	2196 -	2208	2203.39	1.54E+02	25.89	5.59E+00	3.24
95	2251.99	2247 -	2256	2251.29	9.00E+00	10.30	1.00E+01	3.24
96	2309.80	2306 -	2312	2309.09	8.10E+00	7.23	3.80E+00	2.64
97	2447.93	2443 -	2450	2447.20	2.90E+01	14.56	1.61E+01	2.38
98	2613.84	2608 -	2617	2613.10	1.80E+01	11.92	1.00E+01	2.51

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/6/2015 8:12:49AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	14.04	12 -	17	2.53E+03	250.83	1.18E+04	2.08E+02
M	2	27.23	24 -	34	3.17E+02	121.49	2.70E+03	8.54E+01
m	3	31.99	24 -	34	3.73E+02	92.48	1.78E+03	6.94E+01
	4	46.56	43 -	49	1.61E+03	186.09	5.15E+03	1.38E+02
	5	67.84	66 -	71	3.15E+03	200.62	5.50E+03	1.37E+02
M	6	75.01	72 -	91	1.51E+03	119.31	2.62E+03	8.41E+01
m	7	80.84	72 -	91	6.97E+02	109.59	2.36E+03	7.98E+01
m	8	83.82	72 -	91	1.61E+03	122.78	2.26E+03	7.82E+01
m	9	87.82	72 -	91	5.12E+02	106.42	2.15E+03	7.62E+01
	10	94.35	92 -	97	4.80E+02	145.47	3.82E+03	1.14E+02
	11	112.73	110 -	115	1.02E+02	113.14	2.48E+03	9.15E+01
	12	122.67	120 -	125	1.05E+02	112.03	2.44E+03	9.05E+01
	13	144.05	140 -	147	7.28E+02	153.06	3.42E+03	1.18E+02
M	14	150.84	149 -	157	8.43E+01	98.77	2.07E+03	7.48E+01
m	15	154.30	149 -	157	3.93E+02	105.13	2.08E+03	7.50E+01
	16	186.09	182 -	190	1.30E+03	154.77	2.88E+03	1.13E+02
M	17	236.10	233 -	247	5.80E+02	77.67	9.24E+02	5.00E+01
m	18	242.06	233 -	247	1.16E+03	90.58	8.27E+02	4.73E+01
M	19	255.25	252 -	261	3.90E+02	85.54	1.15E+03	5.57E+01
m	20	257.77	252 -	261	2.35E+02	104.36	1.45E+03	6.26E+01
M	21	266.38	265 -	276	3.53E+01	32.23	3.18E+02	2.93E+01
m	22	270.14	265 -	276	1.09E+03	118.94	1.44E+03	6.23E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	23	286.17	284 -	289	8.63E+01	76.19	1.05E+03	6.07E+01
M	24	295.31	291 -	307	2.76E+03	115.10	5.83E+02	3.97E+01
m	25	300.10	291 -	307	2.12E+02	64.26	6.59E+02	4.22E+01
m	26	303.33	291 -	307	1.30E+02	62.93	6.47E+02	4.18E+01
M	27	323.92	321 -	342	1.50E+02	56.92	6.01E+02	4.03E+01
m	28	337.85	321 -	342	1.27E+02	66.61	7.71E+02	4.57E+01
	29	351.93	348 -	356	5.02E+03	163.32	1.00E+03	6.68E+01
	30	389.21	384 -	395	1.69E+02	100.42	1.18E+03	7.97E+01
M	31	401.97	398 -	409	2.16E+02	57.82	5.61E+02	3.89E+01
m	32	405.24	398 -	409	1.07E+02	55.28	5.48E+02	3.85E+01
	33	427.06	424 -	430	5.74E+01	64.18	7.01E+02	5.13E+01
	34	475.03	472 -	478	7.83E+01	47.98	3.57E+02	3.67E+01
	35	480.71	479 -	484	5.40E+01	42.13	3.16E+02	3.25E+01
	36	487.76	484 -	491	7.82E+01	52.57	4.10E+02	4.07E+01
	37	495.72	493 -	498	3.52E+01	40.77	3.02E+02	3.21E+01
	38	510.85	507 -	515	1.33E+02	61.09	4.87E+02	4.65E+01
	39	544.58	540 -	549	8.70E+01	52.94	3.40E+02	4.07E+01
	40	582.01	578 -	590	6.84E+01	73.81	6.01E+02	5.91E+01
	41	609.45	604 -	613	3.33E+03	128.62	4.63E+02	4.67E+01
	42	665.58	662 -	668	4.60E+01	43.43	3.12E+02	3.39E+01
	43	695.69	692 -	699	3.26E+01	39.24	2.33E+02	3.09E+01
	44	703.40	700 -	707	8.35E+01	41.90	2.39E+02	3.10E+01
	45	768.55	764 -	773	3.20E+02	57.46	2.86E+02	3.70E+01
	46	786.39	784 -	789	6.92E+01	33.66	1.72E+02	2.41E+01
	47	805.99	802 -	809	4.90E+01	41.13	2.52E+02	3.18E+01
	48	831.69	826 -	835	8.48E+01	49.40	3.00E+02	3.77E+01
	49	839.92	836 -	844	4.25E+01	46.49	3.07E+02	3.67E+01
	50	892.87	890 -	895	2.74E+01	28.11	1.33E+02	2.14E+01
	51	911.33	908 -	915	4.84E+01	41.62	2.57E+02	3.22E+01
	52	934.12	929 -	938	1.98E+02	50.09	2.46E+02	3.41E+01
	53	966.35	961 -	972	1.09E+02	44.45	1.94E+02	3.23E+01
	54	981.22	977 -	984	3.94E+01	32.56	1.47E+02	2.47E+01
M	55	1116.62	1115 -	1126	1.97E+01	14.92	4.82E+01	1.14E+01
m	56	1120.49	1115 -	1126	6.99E+02	58.06	1.05E+02	1.68E+01
	57	1134.37	1127 -	1141	7.75E+01	50.79	2.35E+02	3.92E+01
M	58	1152.21	1150 -	1160	2.11E+01	17.20	5.14E+01	1.18E+01
m	59	1155.34	1150 -	1160	1.02E+02	31.81	1.06E+02	1.69E+01
	60	1208.33	1205 -	1212	2.70E+01	30.07	1.34E+02	2.32E+01
	61	1238.60	1233 -	1244	2.90E+02	51.42	1.84E+02	3.17E+01
	62	1281.22	1277 -	1285	6.05E+01	32.23	1.25E+02	2.32E+01
	63	1303.00	1299 -	1307	2.12E+01	24.83	8.37E+01	1.90E+01
	64	1331.02	1328 -	1333	2.29E+01	20.95	7.02E+01	1.53E+01
	65	1357.60	1353 -	1362	2.40E+01	28.21	1.00E+02	2.17E+01
M	66	1377.72	1371 -	1392	2.09E+02	35.85	7.43E+01	1.42E+01
m	67	1385.59	1371 -	1392	4.56E+01	24.61	8.12E+01	1.48E+01
M	68	1401.61	1395 -	1412	6.89E+01	28.07	9.40E+01	1.59E+01
m	69	1407.98	1395 -	1412	1.16E+02	32.50	9.08E+01	1.57E+01
	70	1461.23	1456 -	1466	1.62E+02	36.11	8.64E+01	2.11E+01
	71	1473.97	1471 -	1476	1.85E+01	17.78	4.91E+01	1.28E+01
	72	1509.46	1504 -	1513	8.57E+01	39.17	1.71E+02	2.84E+01
M	73	1539.78	1536 -	1553	3.58E+01	21.33	6.86E+01	1.36E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	74	1543.78	1536 -	1553	4.18E+01	24.83	6.64E+01	1.34E+01
	75	1556.45	1554 -	1558	1.71E+01	13.36	2.37E+01	8.62E+00
	76	1570.47	1565 -	1577	3.38E+01	31.01	9.65E+01	2.36E+01
M	77	1584.05	1578 -	1612	3.85E+01	25.22	6.61E+01	1.34E+01
m	78	1595.56	1578 -	1612	2.29E+01	17.86	4.20E+01	1.07E+01
	79	1632.12	1628 -	1636	1.51E+01	19.25	4.39E+01	1.45E+01
	80	1661.38	1657 -	1665	3.92E+01	20.55	4.16E+01	1.34E+01
	81	1693.13	1687 -	1697	2.19E+01	22.24	5.22E+01	1.66E+01
	82	1729.71	1724 -	1736	1.32E+02	32.13	6.19E+01	1.85E+01
	83	1764.74	1757 -	1771	5.99E+02	48.95	0.00E+00	0.00E+00
	84	1786.22	1783 -	1789	9.73E+00	7.50	2.55E+00	3.42E+00
	85	1847.51	1842 -	1850	7.45E+01	21.76	2.70E+01	1.09E+01
	86	1862.21	1858 -	1864	1.13E+01	11.88	1.74E+01	8.05E+00
	87	1889.07	1885 -	1893	2.50E+01	10.00	0.00E+00	0.00E+00
	88	1897.57	1893 -	1900	1.31E+01	11.14	1.19E+01	6.96E+00
	89	1939.67	1932 -	1948	2.60E+01	26.94	5.80E+01	2.05E+01
	90	2092.95	2088 -	2095	6.94E+00	7.21	4.11E+00	4.05E+00
M	91	2110.52	2104 -	2122	7.85E+00	13.22	1.32E+01	5.96E+00
m	92	2118.63	2104 -	2122	3.59E+01	15.26	1.53E+01	6.42E+00
	93	2184.07	2180 -	2187	5.81E+00	6.93	4.38E+00	4.09E+00
	94	2204.08	2196 -	2208	1.54E+02	25.89	5.59E+00	6.01E+00
	95	2251.99	2247 -	2256	9.00E+00	10.30	1.00E+01	6.88E+00
	96	2309.80	2306 -	2312	8.10E+00	7.23	3.80E+00	3.66E+00
	97	2447.93	2443 -	2450	2.90E+01	14.56	1.61E+01	8.06E+00
	98	2613.84	2608 -	2617	1.80E+01	11.92	1.00E+01	6.88E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/6/2015 8:12:49AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	14.04	12 -	17	14.16	2.53E+03	250.83	1.18E+04	.....
M	2	27.23	24 -	34	27.34	3.17E+02	121.49	2.70E+03	.....
m	3	31.99	24 -	34	32.10	3.73E+02	92.48	1.78E+03	.....
	4	46.56	43 -	49	46.67	1.61E+03	186.09	5.15E+03	PB-210
	5	67.84	66 -	71	67.93	3.15E+03	200.62	5.50E+03	TI-44
									TA-182
									TH-230
M	6	75.01	72 -	91	75.10	1.51E+03	119.31	2.62E+03	AM-243
m	7	80.84	72 -	91	80.93	6.97E+02	109.59	2.36E+03	BA-133
									HF-172
m	8	83.82	72 -	91	83.90	1.61E+03	122.78	2.26E+03	TH-231
m	9	87.82	72 -	91	87.90	5.12E+02	106.42	2.15E+03	CD-109
									SN-126
									LU-176
	10	94.35	92 -	97	94.43	4.80E+02	145.47	3.82E+03	.....
	11	112.73	110 -	115	112.79	1.02E+02	113.14	2.48E+03	.....
	12	122.67	120 -	125	122.74	1.05E+02	112.03	2.44E+03	EU-154
									CO-57
									EU-152
	13	144.05	140 -	147	144.10	7.28E+02	153.06	3.42E+03	U-235
M	14	150.84	149 -	157	150.88	8.43E+01	98.77	2.07E+03	.....
m	15	154.30	149 -	157	154.35	3.93E+02	105.13	2.08E+03	.....
	16	186.09	182 -	190	186.12	1.30E+03	154.77	2.88E+03	RA-226
M	17	236.10	233 -	247	236.10	5.80E+02	77.67	9.24E+02	TH-227
									NB-95M
m	18	242.06	233 -	247	242.05	1.16E+03	90.58	8.27E+02	.....
M	19	255.25	252 -	261	255.24	3.90E+02	85.54	1.15E+03	SN-113
									TH-227
m	20	257.77	252 -	261	257.76	2.35E+02	104.36	1.45E+03	.....
M	21	266.38	265 -	276	266.36	3.53E+01	32.23	3.18E+02	.....
m	22	270.14	265 -	276	270.12	1.09E+03	118.94	1.44E+03	.....
	23	286.17	284 -	289	286.14	8.63E+01	76.19	1.05E+03	PM-149
M	24	295.31	291 -	307	295.27	2.76E+03	115.10	5.83E+02	PB-214
m	25	300.10	291 -	307	300.07	2.12E+02	64.26	6.59E+02	PB-212
									BI-210M
									GA-67
m	26	303.33	291 -	307	303.29	1.30E+02	62.93	6.47E+02	BA-133
									PA-231
M	27	323.92	321 -	342	323.88	1.50E+02	56.92	6.01E+02	RA-223
m	28	337.85	321 -	342	337.79	1.27E+02	66.61	7.71E+02	AC-228
	29	351.93	348 -	356	351.86	5.02E+03	163.32	1.00E+03	PB-214
	30	389.21	384 -	395	389.12	1.69E+02	100.42	1.18E+03	.....
M	31	401.97	398 -	409	401.88	2.16E+02	57.82	5.61E+02	RN-219
m	32	405.24	398 -	409	405.15	1.07E+02	55.28	5.48E+02	PB-211
	33	427.06	424 -	430	426.95	5.74E+01	64.18	7.01E+02	SB-125
	34	475.03	472 -	478	474.90	7.83E+01	47.98	3.57E+02	.....
	35	480.71	479 -	484	480.58	5.40E+01	42.13	3.16E+02	.....
	36	487.76	484 -	491	487.63	7.82E+01	52.57	4.10E+02	LA-140
	37	495.72	493 -	498	495.58	3.52E+01	40.77	3.02E+02	.....
	38	510.85	507 -	515	510.70	1.33E+02	61.09	4.87E+02	.....
	39	544.58	540 -	549	544.42	8.70E+01	52.94	3.40E+02	.....
	40	582.01	578 -	590	581.84	6.84E+01	73.81	6.01E+02	.....
	41	609.45	604 -	613	609.25	3.33E+03	128.62	4.63E+02	BI-214
	42	665.58	662 -	668	665.37	4.60E+01	43.43	3.12E+02	SB-126

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	43	695.69	692 -	699	695.46	3.26E+01	39.24	2.33E+02	SB-126 PM-144
	44	703.40	700 -	707	703.17	8.35E+01	41.90	2.39E+02	NB-94
	45	768.55	764 -	773	768.29	3.20E+02	57.46	2.86E+02	.....
	46	786.39	784 -	789	786.11	6.92E+01	33.66	1.72E+02	.....
	47	805.99	802 -	809	805.71	4.90E+01	41.13	2.52E+02	.....
	48	831.69	826 -	835	831.39	8.48E+01	49.40	3.00E+02	PB-211
	49	839.92	836 -	844	839.63	4.25E+01	46.49	3.07E+02	.....
	50	892.87	890 -	895	892.55	2.74E+01	28.11	1.33E+02	.....
	51	911.33	908 -	915	911.00	4.84E+01	41.62	2.57E+02	AC-228 LU-172
	52	934.12	929 -	938	933.78	1.98E+02	50.09	2.46E+02	.....
	53	966.35	961 -	972	966.00	1.09E+02	44.45	1.94E+02	.....
	54	981.22	977 -	984	980.86	3.94E+01	32.56	1.47E+02	.....
M	55	1116.62	1115 -	1126	1116.21	1.97E+01	14.92	4.82E+01	.....
m	56	1120.49	1115 -	1126	1120.08	6.99E+02	58.06	1.05E+02	SC-46 BI-214 TA-182
	57	1134.37	1127 -	1141	1133.96	7.75E+01	50.79	2.35E+02	.....
M	58	1152.21	1150 -	1160	1151.79	2.11E+01	17.20	5.14E+01	.....
m	59	1155.34	1150 -	1160	1154.92	1.02E+02	31.81	1.06E+02	.....
	60	1208.33	1205 -	1212	1207.89	2.70E+01	30.07	1.34E+02	.....
	61	1238.60	1233 -	1244	1238.15	2.90E+02	51.42	1.84E+02	CO-56
	62	1281.22	1277 -	1285	1280.75	6.05E+01	32.23	1.25E+02	.....
	63	1303.00	1299 -	1307	1302.53	2.12E+01	24.83	8.37E+01	.....
	64	1331.02	1328 -	1333	1330.53	2.29E+01	20.95	7.02E+01	.....
	65	1357.60	1353 -	1362	1357.11	2.40E+01	28.21	1.00E+02	.....
M	66	1377.72	1371 -	1392	1377.23	2.09E+02	35.85	7.43E+01	.....
m	67	1385.59	1371 -	1392	1385.09	4.56E+01	24.61	8.12E+01	.....
M	68	1401.61	1395 -	1412	1401.11	6.89E+01	28.07	9.40E+01	.....
m	69	1407.98	1395 -	1412	1407.48	1.16E+02	32.50	9.08E+01	EU-152
	70	1461.23	1456 -	1466	1460.70	1.62E+02	36.11	8.64E+01	K-40
	71	1473.97	1471 -	1476	1473.44	1.85E+01	17.78	4.91E+01	.....
	72	1509.46	1504 -	1513	1508.92	8.57E+01	39.17	1.71E+02	.....
M	73	1539.78	1536 -	1553	1539.24	3.58E+01	21.33	6.86E+01	.....
m	74	1543.78	1536 -	1553	1543.24	4.18E+01	24.83	6.64E+01	.....
	75	1556.45	1554 -	1558	1555.90	1.71E+01	13.36	2.37E+01	.....
	76	1570.47	1565 -	1577	1569.91	3.38E+01	31.01	9.65E+01	.....
M	77	1584.05	1578 -	1612	1583.49	3.85E+01	25.22	6.61E+01	.....
m	78	1595.56	1578 -	1612	1595.00	2.29E+01	17.86	4.20E+01	LA-140
	79	1632.12	1628 -	1636	1631.54	1.51E+01	19.25	4.39E+01	.....
	80	1661.38	1657 -	1665	1660.80	3.92E+01	20.55	4.16E+01	.....
	81	1693.13	1687 -	1697	1692.54	2.19E+01	22.24	5.22E+01	.....
	82	1729.71	1724 -	1736	1729.12	1.32E+02	32.13	6.19E+01	.....
	83	1764.74	1757 -	1771	1764.14	5.99E+02	48.95	0.00E+00	BI-214
	84	1786.22	1783 -	1789	1785.61	9.73E+00	7.50	2.55E+00	.....
	85	1847.51	1842 -	1850	1846.88	7.45E+01	21.76	2.70E+01	.....
	86	1862.21	1858 -	1864	1861.59	1.13E+01	11.88	1.74E+01	.....
	87	1889.07	1885 -	1893	1888.44	2.50E+01	10.00	0.00E+00	.....
	88	1897.57	1893 -	1900	1896.94	1.31E+01	11.14	1.19E+01	.....
	89	1939.67	1932 -	1948	1939.03	2.60E+01	26.94	5.80E+01	.....
	90	2092.95	2088 -	2095	2092.27	6.94E+00	7.21	4.11E+00	.....
M	91	2110.52	2104 -	2122	2109.84	7.85E+00	13.22	1.32E+01	.....
m	92	2118.63	2104 -	2122	2117.95	3.59E+01	15.26	1.53E+01	.....

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
93	2184.07	2180 -	2187	2183.38	5.81E+00	6.93	4.38E+00	.....
94	2204.08	2196 -	2208	2203.39	1.54E+02	25.89	5.59E+00	BI-214
95	2251.99	2247 -	2256	2251.29	9.00E+00	10.30	1.00E+01	.....
96	2309.80	2306 -	2312	2309.09	8.10E+00	7.23	3.80E+00	.....
97	2447.93	2443 -	2450	2447.20	2.90E+01	14.56	1.61E+01	.....
98	2613.84	2608 -	2617	2613.10	1.80E+01	11.92	1.00E+01	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/6/2015 8:12:49AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	14.04	2.53E+03	250.83	1.22E-07	1.68E-03
M	2	27.23	3.17E+02	121.49	9.06E-04	1.68E-03
m	3	31.99	3.73E+02	92.48	2.75E-03	1.68E-03
	4	46.56	1.61E+03	186.09	1.34E-02	1.68E-03
	5	67.84	3.15E+03	200.62	2.54E-02	2.50E-03
M	6	75.01	1.51E+03	119.31	2.72E-02	3.21E-03
m	7	80.84	6.97E+02	109.59	2.80E-02	3.79E-03
m	8	83.82	1.61E+03	122.78	2.82E-02	4.09E-03
m	9	87.82	5.12E+02	106.42	2.84E-02	4.48E-03
	10	94.35	4.80E+02	145.47	2.85E-02	4.22E-03
	11	112.73	1.02E+02	113.14	2.75E-02	3.40E-03
	12	122.67	1.05E+02	112.03	2.66E-02	2.97E-03
	13	144.05	7.28E+02	153.06	2.46E-02	2.33E-03
M	14	150.84	8.43E+01	98.77	2.40E-02	2.12E-03
m	15	154.30	3.93E+02	105.13	2.37E-02	2.02E-03
	16	186.09	1.30E+03	154.77	2.11E-02	1.65E-03
M	17	236.10	5.80E+02	77.67	1.80E-02	1.60E-03
m	18	242.06	1.16E+03	90.58	1.77E-02	1.60E-03
M	19	255.25	3.90E+02	85.54	1.71E-02	1.58E-03
m	20	257.77	2.35E+02	104.36	1.70E-02	1.58E-03
M	21	266.38	3.53E+01	32.23	1.66E-02	1.57E-03
m	22	270.14	1.09E+03	118.94	1.64E-02	1.57E-03
	23	286.17	8.63E+01	76.19	1.58E-02	1.52E-03
M	24	295.31	2.76E+03	115.10	1.55E-02	1.48E-03

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	25	300.10	2.12E+02	64.26	1.53E-02	1.46E-03
m	26	303.33	1.30E+02	62.93	1.52E-02	1.44E-03
M	27	323.92	1.50E+02	56.92	1.45E-02	1.34E-03
m	28	337.85	1.27E+02	66.61	1.41E-02	1.28E-03
	29	351.93	5.02E+03	163.32	1.37E-02	1.21E-03
	30	389.21	1.69E+02	100.42	1.28E-02	1.03E-03
M	31	401.97	2.16E+02	57.82	1.25E-02	1.01E-03
m	32	405.24	1.07E+02	55.28	1.24E-02	1.01E-03
	33	427.06	5.74E+01	64.18	1.20E-02	9.84E-04
	34	475.03	7.83E+01	47.98	1.11E-02	9.35E-04
	35	480.71	5.40E+01	42.13	1.10E-02	9.29E-04
	36	487.76	7.82E+01	52.57	1.09E-02	9.22E-04
	37	495.72	3.52E+01	40.77	1.08E-02	9.14E-04
	38	510.85	1.33E+02	61.09	1.06E-02	8.98E-04
	39	544.58	8.70E+01	52.94	1.01E-02	8.64E-04
	40	582.01	6.84E+01	73.81	9.60E-03	8.26E-04
	41	609.45	3.33E+03	128.62	9.27E-03	7.98E-04
	42	665.58	4.60E+01	43.43	8.67E-03	7.43E-04
	43	695.69	3.26E+01	39.24	8.37E-03	7.23E-04
	44	703.40	8.35E+01	41.90	8.30E-03	7.18E-04
	45	768.55	3.20E+02	57.46	7.74E-03	6.76E-04
	46	786.39	6.92E+01	33.66	7.60E-03	6.65E-04
	47	805.99	4.90E+01	41.13	7.45E-03	6.52E-04
	48	831.69	8.48E+01	49.40	7.26E-03	6.36E-04
	49	839.92	4.25E+01	46.49	7.21E-03	6.31E-04
	50	892.87	2.74E+01	28.11	6.86E-03	5.97E-04
	51	911.33	4.84E+01	41.62	6.74E-03	5.87E-04
	52	934.12	1.98E+02	50.09	6.61E-03	5.75E-04
	53	966.35	1.09E+02	44.45	6.43E-03	5.58E-04
	54	981.22	3.94E+01	32.56	6.35E-03	5.51E-04
M	55	1116.62	1.97E+01	14.92	5.72E-03	4.82E-04
m	56	1120.49	6.99E+02	58.06	5.70E-03	4.80E-04
	57	1134.37	7.75E+01	50.79	5.65E-03	4.73E-04
M	58	1152.21	2.11E+01	17.20	5.58E-03	4.64E-04
m	59	1155.34	1.02E+02	31.81	5.56E-03	4.62E-04
	60	1208.33	2.70E+01	30.07	5.37E-03	4.69E-04
	61	1238.60	2.90E+02	51.42	5.27E-03	4.83E-04
	62	1281.22	6.05E+01	32.23	5.14E-03	5.03E-04
	63	1303.00	2.12E+01	24.83	5.07E-03	5.13E-04
	64	1331.02	2.29E+01	20.95	4.99E-03	5.26E-04
	65	1357.60	2.40E+01	28.21	4.92E-03	5.16E-04
M	66	1377.72	2.09E+02	35.85	4.87E-03	5.08E-04
m	67	1385.59	4.56E+01	24.61	4.85E-03	5.04E-04
M	68	1401.61	6.89E+01	28.07	4.81E-03	4.98E-04
m	69	1407.98	1.16E+02	32.50	4.79E-03	4.95E-04
	70	1461.23	1.62E+02	36.11	4.67E-03	4.73E-04
	71	1473.97	1.85E+01	17.78	4.64E-03	4.68E-04
	72	1509.46	8.57E+01	39.17	4.57E-03	4.53E-04
M	73	1539.78	3.58E+01	21.33	4.51E-03	4.41E-04
m	74	1543.78	4.18E+01	24.83	4.51E-03	4.39E-04
	75	1556.45	1.71E+01	13.36	4.48E-03	4.34E-04
	76	1570.47	3.38E+01	31.01	4.46E-03	4.28E-04
M	77	1584.05	3.85E+01	25.22	4.44E-03	4.22E-04

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	78	1595.56	2.29E+01	17.86	4.42E-03	4.17E-04
	79	1632.12	1.51E+01	19.25	4.36E-03	4.02E-04
	80	1661.38	3.92E+01	20.55	4.32E-03	3.90E-04
	81	1693.13	2.19E+01	22.24	4.27E-03	3.77E-04
	82	1729.71	1.32E+02	32.13	4.23E-03	3.62E-04
	83	1764.74	5.99E+02	48.95	4.18E-03	3.47E-04
	84	1786.22	9.73E+00	7.50	4.16E-03	3.39E-04
	85	1847.51	7.45E+01	21.76	4.10E-03	3.18E-04
	86	1862.21	1.13E+01	11.88	4.09E-03	3.18E-04
	87	1889.07	2.50E+01	10.00	4.07E-03	3.18E-04
	88	1897.57	1.31E+01	11.14	4.06E-03	3.18E-04
	89	1939.67	2.60E+01	26.94	4.03E-03	3.18E-04
	90	2092.95	6.94E+00	7.21	3.95E-03	3.18E-04
M	91	2110.52	7.85E+00	13.22	3.95E-03	3.18E-04
m	92	2118.63	3.59E+01	15.26	3.95E-03	3.18E-04
	93	2184.07	5.81E+00	6.93	3.93E-03	3.18E-04
	94	2204.08	1.54E+02	25.89	3.93E-03	3.18E-04
	95	2251.99	9.00E+00	10.30	3.93E-03	3.18E-04
	96	2309.80	8.10E+00	7.23	3.93E-03	3.18E-04
	97	2447.93	2.90E+01	14.56	3.96E-03	3.18E-04
	98	2613.84	1.80E+01	11.92	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/6/2015 8:12:49AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023838.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	14.04	2.53E+03	250.83	1.07E+03	4.13E+00	1.46E+03	2.51E+02
M	2	27.23	3.17E+02	121.49			3.17E+02	1.21E+02
m	3	31.99	3.73E+02	92.48			3.73E+02	9.25E+01
	4	46.56	1.61E+03	186.09	4.57E+01	1.21E+01	1.56E+03	1.86E+02
	5	67.84	3.15E+03	200.62			3.15E+03	2.01E+02
M	6	75.01	1.51E+03	119.31			1.51E+03	1.19E+02
m	7	80.84	6.97E+02	109.59			6.97E+02	1.10E+02
m	8	83.82	1.61E+03	122.78			1.61E+03	1.23E+02
m	9	87.82	5.12E+02	106.42	5.62E+00	4.46E+00	5.06E+02	1.07E+02

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	10	94.35	4.80E+02	145.47			4.80E+02	1.45E+02
	11	112.73	1.02E+02	113.14	0.00E+00	0.00E+00	1.02E+02	1.13E+02
	12	122.67	1.05E+02	112.03			1.05E+02	1.12E+02
	13	144.05	7.28E+02	153.06	1.24E+01	5.54E-01	7.15E+02	1.53E+02
M	14	150.84	8.43E+01	98.77			8.43E+01	9.88E+01
m	15	154.30	3.93E+02	105.13			3.93E+02	1.05E+02
	16	186.09	1.30E+03	154.77	4.99E+01	7.82E+00	1.25E+03	1.55E+02
M	17	236.10	5.80E+02	77.67			5.80E+02	7.77E+01
m	18	242.06	1.16E+03	90.58	6.22E+00	2.44E+00	1.15E+03	9.06E+01
M	19	255.25	3.90E+02	85.54			3.90E+02	8.55E+01
m	20	257.77	2.35E+02	104.36			2.35E+02	1.04E+02
M	21	266.38	3.53E+01	32.23			3.53E+01	3.22E+01
m	22	270.14	1.09E+03	118.94			1.09E+03	1.19E+02
	23	286.17	8.63E+01	76.19			8.63E+01	7.62E+01
M	24	295.31	2.76E+03	115.10			2.76E+03	1.15E+02
m	25	300.10	2.12E+02	64.26			2.12E+02	6.43E+01
m	26	303.33	1.30E+02	62.93			1.30E+02	6.29E+01
M	27	323.92	1.50E+02	56.92			1.50E+02	5.69E+01
m	28	337.85	1.27E+02	66.61			1.27E+02	6.66E+01
	29	351.93	5.02E+03	163.32	1.45E+01	5.36E+00	5.00E+03	1.63E+02
	30	389.21	1.69E+02	100.42			1.69E+02	1.00E+02
M	31	401.97	2.16E+02	57.82			2.16E+02	5.78E+01
m	32	405.24	1.07E+02	55.28			1.07E+02	5.53E+01
	33	427.06	5.74E+01	64.18			5.74E+01	6.42E+01
	34	475.03	7.83E+01	47.98	0.00E+00	0.00E+00	7.83E+01	4.80E+01
	35	480.71	5.40E+01	42.13			5.40E+01	4.21E+01
	36	487.76	7.82E+01	52.57			7.82E+01	5.26E+01
	37	495.72	3.52E+01	40.77			3.52E+01	4.08E+01
	38	510.85	1.33E+02	61.09	7.98E+01	5.34E+00	5.28E+01	6.13E+01
	39	544.58	8.70E+01	52.94			8.70E+01	5.29E+01
	40	582.01	6.84E+01	73.81			6.84E+01	7.38E+01
	41	609.45	3.33E+03	128.62	1.27E+01	3.78E+00	3.32E+03	1.29E+02
	42	665.58	4.60E+01	43.43			4.60E+01	4.34E+01
	43	695.69	3.26E+01	39.24			3.26E+01	3.92E+01
	44	703.40	8.35E+01	41.90			8.35E+01	4.19E+01
	45	768.55	3.20E+02	57.46			3.20E+02	5.75E+01
	46	786.39	6.92E+01	33.66			6.92E+01	3.37E+01
	47	805.99	4.90E+01	41.13			4.90E+01	4.11E+01
	48	831.69	8.48E+01	49.40			8.48E+01	4.94E+01
	49	839.92	4.25E+01	46.49			4.25E+01	4.65E+01
	50	892.87	2.74E+01	28.11			2.74E+01	2.81E+01
	51	911.33	4.84E+01	41.62	4.46E+00	3.17E+00	4.39E+01	4.17E+01
	52	934.12	1.98E+02	50.09			1.98E+02	5.01E+01
	53	966.35	1.09E+02	44.45			1.09E+02	4.45E+01
	54	981.22	3.94E+01	32.56			3.94E+01	3.26E+01
M	55	1116.62	1.97E+01	14.92			1.97E+01	1.49E+01
m	56	1120.49	6.99E+02	58.06	4.63E+00	2.77E+00	6.94E+02	5.81E+01
	57	1134.37	7.75E+01	50.79			7.75E+01	5.08E+01
M	58	1152.21	2.11E+01	17.20			2.11E+01	1.72E+01
m	59	1155.34	1.02E+02	31.81			1.02E+02	3.18E+01
	60	1208.33	2.70E+01	30.07			2.70E+01	3.01E+01
	61	1238.60	2.90E+02	51.42			2.90E+02	5.14E+01
	62	1281.22	6.05E+01	32.23			6.05E+01	3.22E+01
	63	1303.00	2.12E+01	24.83			2.12E+01	2.48E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	64	1331.02	2.29E+01	20.95			2.29E+01	2.10E+01
	65	1357.60	2.40E+01	28.21			2.40E+01	2.82E+01
M	66	1377.72	2.09E+02	35.85			2.09E+02	3.59E+01
m	67	1385.59	4.56E+01	24.61			4.56E+01	2.46E+01
M	68	1401.61	6.89E+01	28.07			6.89E+01	2.81E+01
m	69	1407.98	1.16E+02	32.50			1.16E+02	3.25E+01
	70	1461.23	1.62E+02	36.11	1.07E+01	2.49E+00	1.51E+02	3.62E+01
	71	1473.97	1.85E+01	17.78			1.85E+01	1.78E+01
	72	1509.46	8.57E+01	39.17			8.57E+01	3.92E+01
M	73	1539.78	3.58E+01	21.33			3.58E+01	2.13E+01
m	74	1543.78	4.18E+01	24.83			4.18E+01	2.48E+01
	75	1556.45	1.71E+01	13.36			1.71E+01	1.34E+01
	76	1570.47	3.38E+01	31.01	1.67E+00	1.49E+00	3.21E+01	3.10E+01
M	77	1584.05	3.85E+01	25.22			3.85E+01	2.52E+01
m	78	1595.56	2.29E+01	17.86			2.29E+01	1.79E+01
	79	1632.12	1.51E+01	19.25			1.51E+01	1.93E+01
	80	1661.38	3.92E+01	20.55			3.92E+01	2.05E+01
	81	1693.13	2.19E+01	22.24			2.19E+01	2.22E+01
	82	1729.71	1.32E+02	32.13			1.32E+02	3.21E+01
	83	1764.74	5.99E+02	48.95	1.99E+00	2.17E+00	5.97E+02	4.90E+01
	84	1786.22	9.73E+00	7.50			9.73E+00	7.50E+00
	85	1847.51	7.45E+01	21.76			7.45E+01	2.18E+01
	86	1862.21	1.13E+01	11.88			1.13E+01	1.19E+01
	87	1889.07	2.50E+01	10.00			2.50E+01	1.00E+01
	88	1897.57	1.31E+01	11.14			1.31E+01	1.11E+01
	89	1939.67	2.60E+01	26.94			2.60E+01	2.69E+01
	90	2092.95	6.94E+00	7.21			6.94E+00	7.21E+00
M	91	2110.52	7.85E+00	13.22			7.85E+00	1.32E+01
m	92	2118.63	3.59E+01	15.26			3.59E+01	1.53E+01
	93	2184.07	5.81E+00	6.93			5.81E+00	6.93E+00
	94	2204.08	1.54E+02	25.89			1.54E+02	2.59E+01
	95	2251.99	9.00E+00	10.30			9.00E+00	1.03E+01
	96	2309.80	8.10E+00	7.23			8.10E+00	7.23E+00
	97	2447.93	2.90E+01	14.56			2.90E+01	1.46E+01
	98	2613.84	1.80E+01	11.92	6.94E+00	1.61E+00	1.11E+01	1.20E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/6/2015 8:12:49AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000023838.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	14.04	2.53E+03	250.83	1.07E+03	4.13E+00	1.46E+03	2.51E+02
M	2	27.23	3.17E+02	121.49			3.17E+02	1.21E+02
m	3	31.99	3.73E+02	92.48			3.73E+02	9.25E+01
	4	46.56	1.61E+03	186.09	4.57E+01	1.21E+01	1.56E+03	1.86E+02
	5	67.84	3.15E+03	200.62			3.15E+03	2.01E+02
M	6	75.01	1.51E+03	119.31			1.51E+03	1.19E+02
m	7	80.84	6.97E+02	109.59			6.97E+02	1.10E+02
m	8	83.82	1.61E+03	122.78			1.61E+03	1.23E+02
m	9	87.82	5.12E+02	106.42	5.62E+00	4.46E+00	5.06E+02	1.07E+02
	10	94.35	4.80E+02	145.47			4.80E+02	1.45E+02
	11	112.73	1.02E+02	113.14	0.00E+00	0.00E+00	1.02E+02	1.13E+02
	12	122.67	1.05E+02	112.03			1.05E+02	1.12E+02
	13	144.05	7.28E+02	153.06	1.24E+01	5.54E-01	7.15E+02	1.53E+02
M	14	150.84	8.43E+01	98.77			8.43E+01	9.88E+01
m	15	154.30	3.93E+02	105.13			3.93E+02	1.05E+02
	16	186.09	1.30E+03	154.77	4.99E+01	7.82E+00	1.25E+03	1.55E+02
M	17	236.10	5.80E+02	77.67			5.80E+02	7.77E+01
m	18	242.06	1.16E+03	90.58	6.22E+00	2.44E+00	1.15E+03	9.06E+01
M	19	255.25	3.90E+02	85.54			3.90E+02	8.55E+01
m	20	257.77	2.35E+02	104.36			2.35E+02	1.04E+02
M	21	266.38	3.53E+01	32.23			3.53E+01	3.22E+01
m	22	270.14	1.09E+03	118.94			1.09E+03	1.19E+02
	23	286.17	8.63E+01	76.19			8.63E+01	7.62E+01
M	24	295.31	2.76E+03	115.10			2.76E+03	1.15E+02
m	25	300.10	2.12E+02	64.26			2.12E+02	6.43E+01
m	26	303.33	1.30E+02	62.93			1.30E+02	6.29E+01
M	27	323.92	1.50E+02	56.92			1.50E+02	5.69E+01
m	28	337.85	1.27E+02	66.61			1.27E+02	6.66E+01
	29	351.93	5.02E+03	163.32	1.45E+01	5.36E+00	5.00E+03	1.63E+02
	30	389.21	1.69E+02	100.42			1.69E+02	1.00E+02
M	31	401.97	2.16E+02	57.82			2.16E+02	5.78E+01
m	32	405.24	1.07E+02	55.28			1.07E+02	5.53E+01
	33	427.06	5.74E+01	64.18			5.74E+01	6.42E+01
	34	475.03	7.83E+01	47.98	0.00E+00	0.00E+00	7.83E+01	4.80E+01
	35	480.71	5.40E+01	42.13			5.40E+01	4.21E+01
	36	487.76	7.82E+01	52.57			7.82E+01	5.26E+01
	37	495.72	3.52E+01	40.77			3.52E+01	4.08E+01
	38	510.85	1.33E+02	61.09	7.98E+01	5.34E+00	5.28E+01	6.13E+01
	39	544.58	8.70E+01	52.94			8.70E+01	5.29E+01
	40	582.01	6.84E+01	73.81			6.84E+01	7.38E+01
	41	609.45	3.33E+03	128.62	1.27E+01	3.78E+00	3.32E+03	1.29E+02

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	42	665.58	4.60E+01	43.43			4.60E+01	4.34E+01
	43	695.69	3.26E+01	39.24			3.26E+01	3.92E+01
	44	703.40	8.35E+01	41.90			8.35E+01	4.19E+01
	45	768.55	3.20E+02	57.46			3.20E+02	5.75E+01
	46	786.39	6.92E+01	33.66			6.92E+01	3.37E+01
	47	805.99	4.90E+01	41.13			4.90E+01	4.11E+01
	48	831.69	8.48E+01	49.40			8.48E+01	4.94E+01
	49	839.92	4.25E+01	46.49			4.25E+01	4.65E+01
	50	892.87	2.74E+01	28.11			2.74E+01	2.81E+01
	51	911.33	4.84E+01	41.62	4.46E+00	3.17E+00	4.39E+01	4.17E+01
	52	934.12	1.98E+02	50.09			1.98E+02	5.01E+01
	53	966.35	1.09E+02	44.45			1.09E+02	4.45E+01
	54	981.22	3.94E+01	32.56			3.94E+01	3.26E+01
M	55	1116.62	1.97E+01	14.92			1.97E+01	1.49E+01
m	56	1120.49	6.99E+02	58.06	4.63E+00	2.77E+00	6.94E+02	5.81E+01
	57	1134.37	7.75E+01	50.79			7.75E+01	5.08E+01
M	58	1152.21	2.11E+01	17.20			2.11E+01	1.72E+01
m	59	1155.34	1.02E+02	31.81			1.02E+02	3.18E+01
	60	1208.33	2.70E+01	30.07			2.70E+01	3.01E+01
	61	1238.60	2.90E+02	51.42			2.90E+02	5.14E+01
	62	1281.22	6.05E+01	32.23			6.05E+01	3.22E+01
	63	1303.00	2.12E+01	24.83			2.12E+01	2.48E+01
	64	1331.02	2.29E+01	20.95			2.29E+01	2.10E+01
	65	1357.60	2.40E+01	28.21			2.40E+01	2.82E+01
M	66	1377.72	2.09E+02	35.85			2.09E+02	3.59E+01
m	67	1385.59	4.56E+01	24.61			4.56E+01	2.46E+01
M	68	1401.61	6.89E+01	28.07			6.89E+01	2.81E+01
m	69	1407.98	1.16E+02	32.50			1.16E+02	3.25E+01
	70	1461.23	1.62E+02	36.11	1.07E+01	2.49E+00	1.51E+02	3.62E+01
	71	1473.97	1.85E+01	17.78			1.85E+01	1.78E+01
	72	1509.46	8.57E+01	39.17			8.57E+01	3.92E+01
M	73	1539.78	3.58E+01	21.33			3.58E+01	2.13E+01
m	74	1543.78	4.18E+01	24.83			4.18E+01	2.48E+01
	75	1556.45	1.71E+01	13.36			1.71E+01	1.34E+01
	76	1570.47	3.38E+01	31.01	1.67E+00	1.49E+00	3.21E+01	3.10E+01
M	77	1584.05	3.85E+01	25.22			3.85E+01	2.52E+01
m	78	1595.56	2.29E+01	17.86			2.29E+01	1.79E+01
	79	1632.12	1.51E+01	19.25			1.51E+01	1.93E+01
	80	1661.38	3.92E+01	20.55			3.92E+01	2.05E+01
	81	1693.13	2.19E+01	22.24			2.19E+01	2.22E+01
	82	1729.71	1.32E+02	32.13			1.32E+02	3.21E+01
	83	1764.74	5.99E+02	48.95	1.99E+00	2.17E+00	5.97E+02	4.90E+01
	84	1786.22	9.73E+00	7.50			9.73E+00	7.50E+00
	85	1847.51	7.45E+01	21.76			7.45E+01	2.18E+01
	86	1862.21	1.13E+01	11.88			1.13E+01	1.19E+01
	87	1889.07	2.50E+01	10.00			2.50E+01	1.00E+01
	88	1897.57	1.31E+01	11.14			1.31E+01	1.11E+01
	89	1939.67	2.60E+01	26.94			2.60E+01	2.69E+01
	90	2092.95	6.94E+00	7.21			6.94E+00	7.21E+00
M	91	2110.52	7.85E+00	13.22			7.85E+00	1.32E+01
m	92	2118.63	3.59E+01	15.26			3.59E+01	1.53E+01
	93	2184.07	5.81E+00	6.93			5.81E+00	6.93E+00
	94	2204.08	1.54E+02	25.89			1.54E+02	2.59E+01
	95	2251.99	9.00E+00	10.30			9.00E+00	1.03E+01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
96	2309.80	8.10E+00	7.23			8.10E+00	7.23E+00
97	2447.93	2.90E+01	14.56			2.90E+01	1.46E+01
98	2613.84	1.80E+01	11.92	6.94E+00	1.61E+00	1.11E+01	1.20E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.973	1460.81	*	10.67	6.90E+00	1.80E+00
CO-57	0.776	122.06	*	85.51	1.11E-01	1.20E-01
		136.48		10.60		
CD-109	0.993	88.03	*	3.72	1.13E+01	3.05E+00
SN-126	0.990	87.57	*	37.00	1.10E+00	2.88E-01
LA-140	0.443	328.77		20.50		
		487.03	*	45.50	1.39E+00	9.44E-01
		815.85		23.50		
		1596.49	*	95.49	4.81E-01	3.78E-01
PM-149	0.520	285.90	*	3.10	1.04E+04	9.22E+03
TA-182	0.487	67.75	*	41.20	7.98E+00	9.36E-01
		1121.30	*	34.90	9.24E+00	1.10E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.999	46.50	*	4.25	6.24E+01	1.08E+01
PB-211	0.981	404.84	*	2.90	6.77E+00	3.53E+00
		831.96	*	2.90	9.15E+00	5.39E+00
BI-214	0.995	609.31	*	46.30	1.76E+01	1.66E+00
		1120.29	*	15.10	1.83E+01	2.18E+00
		1764.49	*	15.80	2.05E+01	2.40E+00
		2204.22	*	4.98	1.79E+01	3.34E+00
PB-214	1.000	295.21	*	19.19	2.12E+01	2.21E+00
		351.92	*	37.19	2.23E+01	2.10E+00
RN-219	0.995	401.80	*	6.50	6.05E+00	1.69E+00
RA-223	1.000	323.87	*	3.88	6.04E+00	2.36E+00
RA-226	0.998	186.21	*	3.28	4.13E+01	7.58E+01
TH-227	0.468	50.10		8.40		

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TH-227	0.468	236.00	*	11.50	6.38E+00	1.02E+00
		256.20	*	6.30	8.25E+00	1.96E+00
AC-228	0.559	338.32	*	11.40	1.79E+00	9.56E-01
		911.07	*	27.70	5.34E-01	5.10E-01
		969.11		16.60		
TH-231	0.604	25.64		14.70		
		84.21	*	6.40	2.03E+01	3.32E+00
AM-243	0.982	74.67	*	66.00	1.92E+00	2.73E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/6/2015 8:12:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	14.04	4.06126E-01	8.58		
M	2	27.23	8.81594E-02	19.14		
m	3	31.99	1.03486E-01	12.41		
m	7	80.84	1.93562E-01	7.86	Tol.	HF-172
	10	94.35	1.33397E-01	15.15		
	11	112.73	2.83778E-02	55.37		
	13	144.05	1.98727E-01	10.70	Tol.	U-235
M	14	150.84	2.34032E-02	58.62	Sum	
m	15	154.30	1.09111E-01	13.38		
m	18	242.06	3.20173E-01	3.93		
m	20	257.77	6.52998E-02	22.20		
M	21	266.38	9.80543E-03	45.66		
m	22	270.14	3.03113E-01	5.45	Sum	
m	25	300.10	5.87847E-02	15.18	Tol.	GA-67 BI-210M PB-212
m	26	303.33	3.62372E-02	24.12	Sum	
	30	389.21	4.69444E-02	29.71		
	33	427.06	1.59491E-02	55.89	Sum	

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	34	475.03	2.17439E-02	30.65	Sum	
	35	480.71	1.49934E-02	39.03	Sum	
	37	495.72	9.76404E-03	57.99		
	38	510.85	1.46784E-02	58.02	Sum	
	39	544.58	2.41575E-02	30.44		
	40	582.01	1.89924E-02	53.97	Sum	
	42	665.58	1.27764E-02	47.21	Tol.	SB-126
	43	695.69	9.05388E-03	60.20	Tol.	SB-126 PM-144
	44	703.40	2.32074E-02	25.08	Sum	
	45	768.55	8.88985E-02	8.98		
	46	786.39	1.92168E-02	24.33		
	47	805.99	1.36111E-02	41.97		
	49	839.92	1.18056E-02	54.69	Sum	
	50	892.87	7.61820E-03	51.24	Sum	
	52	934.12	5.50234E-02	12.64	Sum	
	53	966.35	3.02265E-02	20.43		
	54	981.22	1.09464E-02	41.31		
M	55	1116.62	5.45863E-03	37.97		
	57	1134.37	2.15235E-02	32.78		
M	58	1152.21	5.86812E-03	40.72		
m	59	1155.34	2.82082E-02	15.66	Sum	
	60	1208.33	7.50739E-03	55.62	Sum	
	61	1238.60	8.06192E-02	8.86		
	62	1281.22	1.67977E-02	26.65		
	63	1303.00	5.87522E-03	58.70		
	64	1331.02	6.35536E-03	45.79		
	65	1357.60	6.66667E-03	58.78		
M	66	1377.72	5.81786E-02	8.56		
m	67	1385.59	1.26598E-02	27.00		
M	68	1401.61	1.91462E-02	20.36		
m	69	1407.98	3.23158E-02	13.97	Tol.	EU-152
	71	1473.97	5.12920E-03	48.14		
	72	1509.46	2.38174E-02	22.84		
M	73	1539.78	9.93855E-03	29.81		
m	74	1543.78	1.16142E-02	29.70		
	75	1556.45	4.76054E-03	38.98		
	76	1570.47	8.91518E-03	48.37		
M	77	1584.05	1.06816E-02	32.79	Sum	
	79	1632.12	4.18168E-03	63.95		
	80	1661.38	1.08819E-02	26.23		
	81	1693.13	6.08796E-03	50.73	S-Esc	
	82	1729.71	3.66760E-02	12.17	Sum	
	84	1786.22	2.70202E-03	38.55		
	85	1847.51	2.06944E-02	14.60		
	86	1862.21	3.14583E-03	52.47	Sum	
	87	1889.07	6.94444E-03	20.00		
	88	1897.57	3.62573E-03	42.66		
	89	1939.67	7.21717E-03	51.84		
	90	2092.95	1.92901E-03	51.92		
M	91	2110.52	2.18156E-03	84.16		
m	92	2118.63	9.98389E-03	21.22		
	93	2184.07	1.61458E-03	59.60		
	95	2251.99	2.50000E-03	57.20	Sum	

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
96	2309.80	2.25000E-03	44.62		
97	2447.93	8.04805E-03	25.13		
98	2613.84	3.07099E-03	54.38		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	6.90E+00	1.80E+00
CO-57	0.77	122.06	*	85.51	1.11E-01	1.20E-01
		136.48		10.60		
CD-109	0.99	88.03	*	3.72	1.13E+01	3.05E+00
SN-126	0.99	87.57	*	37.00	1.10E+00	2.88E-01
LA-140	0.44	328.77		20.50		
		487.03	*	45.50	1.39E+00	9.44E-01
		815.85		23.50		
		1596.49	*	95.49	4.81E-01	3.78E-01
PM-149	0.52	285.90	*	3.10	1.04E+04	9.22E+03
TA-182	0.48	67.75	*	41.20	7.98E+00	9.36E-01
		1121.30	*	34.90	9.24E+00	1.10E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.99	46.50	*	4.25	6.24E+01	1.08E+01
PB-211	0.98	404.84	*	2.90	6.77E+00	3.53E+00
		831.96	*	2.90	9.15E+00	5.39E+00
BI-214	0.99	609.31	*	46.30	1.76E+01	1.66E+00
		1120.29	*	15.10	1.83E+01	2.18E+00
		1764.49	*	15.80	2.05E+01	2.40E+00
		2204.22	*	4.98	1.79E+01	3.34E+00
PB-214	1.00	295.21	*	19.19	2.12E+01	2.21E+00
		351.92	*	37.19	2.23E+01	2.10E+00
RN-219	0.99	401.80	*	6.50	6.05E+00	1.69E+00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
RA-223	1.00	323.87	*	3.88	6.04E+00	2.36E+00
RA-226	0.99	186.21	*	3.28	4.13E+01	7.58E+01
TH-227	0.46	50.10		8.40		
		236.00	*	11.50	6.38E+00	1.02E+00
		256.20	*	6.30	8.25E+00	1.96E+00
AC-228	0.55	338.32	*	11.40	1.79E+00	9.56E-01
		911.07	*	27.70	5.34E-01	5.10E-01
		969.11		16.60		
TH-231	0.60	25.64		14.70		
		84.21	*	6.40	2.03E+01	3.32E+00
AM-243	0.98	74.67	*	66.00	1.92E+00	2.73E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.973	6.90E+00	1.80E+00	
	CO-57	0.776	1.11E-01	1.20E-01	
X	NB-95M	0.765			
?	CD-109	0.993	1.13E+01	3.05E+00	
?	SN-126	0.990	1.10E+00	2.88E-01	
	LA-140	0.443	6.07E-01	3.51E-01	
	PM-149	0.520	1.04E+04	9.22E+03	
	TA-182	0.487	5.14E+00	7.53E-01	
	PB-210	0.999	6.24E+01	1.08E+01	
	PB-211	0.981	7.49E+00	2.95E+00	
	BI-214	0.995	1.58E+01	1.16E+00	
	PB-214	1.000	2.18E+01	1.52E+00	
	RN-219	0.995	6.05E+00	1.69E+00	
	RA-223	1.000	6.04E+00	2.36E+00	
	RA-226	0.998	4.13E+01	7.58E+01	
	TH-227	0.468	6.78E+00	9.09E-01	

Analysis Report for 1506043-04

FEEBRISID-09-088-089

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
AC-228	0.559	8.14E-01	4.50E-01	
TH-231	0.604	2.03E+01	3.32E+00	
AM-243	0.982	1.92E+00	2.73E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506043-04

FEEBRISID-09-088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/6/2015 8:12:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	14.04	4.06126E-01	8.58		
M	2	27.23	8.81594E-02	19.14		
m	3	31.99	1.03486E-01	12.41		
m	7	80.84	1.93562E-01	7.86	Tol.	HF-172
	10	94.35	1.33397E-01	15.15		
	11	112.73	2.83778E-02	55.37		
	13	144.05	1.98727E-01	10.70	Tol.	U-235
M	14	150.84	2.34032E-02	58.62	Sum	
m	15	154.30	1.09111E-01	13.38		
m	18	242.06	3.20173E-01	3.93		
m	20	257.77	6.52998E-02	22.20		
M	21	266.38	9.80543E-03	45.66		
m	22	270.14	3.03113E-01	5.45	Sum	
m	25	300.10	5.87847E-02	15.18	Tol.	GA-67 BI-210M PB-212
m	26	303.33	3.62372E-02	24.12	Sum	
	30	389.21	4.69444E-02	29.71		
	33	427.06	1.59491E-02	55.89	Sum	
	34	475.03	2.17439E-02	30.65	Sum	
	35	480.71	1.49934E-02	39.03	Sum	
	37	495.72	9.76404E-03	57.99		
	38	510.85	1.46784E-02	58.02	Sum	
	39	544.58	2.41575E-02	30.44		
	40	582.01	1.89924E-02	53.97	Sum	
	42	665.58	1.27764E-02	47.21	Tol.	SB-126
	43	695.69	9.05388E-03	60.20	Tol.	SB-126 PM-144
	44	703.40	2.32074E-02	25.08	Sum	
	45	768.55	8.88985E-02	8.98		
	46	786.39	1.92168E-02	24.33		
	47	805.99	1.36111E-02	41.97		
	49	839.92	1.18056E-02	54.69	Sum	

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	50	892.87	7.61820E-03	51.24	Sum	
	52	934.12	5.50234E-02	12.64	Sum	
	53	966.35	3.02265E-02	20.43		
	54	981.22	1.09464E-02	41.31		
M	55	1116.62	5.45863E-03	37.97		
	57	1134.37	2.15235E-02	32.78		
M	58	1152.21	5.86812E-03	40.72		
m	59	1155.34	2.82082E-02	15.66	Sum	
	60	1208.33	7.50739E-03	55.62	Sum	
	61	1238.60	8.06192E-02	8.86		
	62	1281.22	1.67977E-02	26.65		
	63	1303.00	5.87522E-03	58.70		
	64	1331.02	6.35536E-03	45.79		
	65	1357.60	6.66667E-03	58.78		
M	66	1377.72	5.81786E-02	8.56		
m	67	1385.59	1.26598E-02	27.00		
M	68	1401.61	1.91462E-02	20.36		
m	69	1407.98	3.23158E-02	13.97	Tol.	EU-152
	71	1473.97	5.12920E-03	48.14		
	72	1509.46	2.38174E-02	22.84		
M	73	1539.78	9.93855E-03	29.81		
m	74	1543.78	1.16142E-02	29.70		
	75	1556.45	4.76054E-03	38.98		
	76	1570.47	8.91518E-03	48.37		
M	77	1584.05	1.06816E-02	32.79	Sum	
	79	1632.12	4.18168E-03	63.95		
	80	1661.38	1.08819E-02	26.23		
	81	1693.13	6.08796E-03	50.73	S-Esc	
	82	1729.71	3.66760E-02	12.17	Sum	
	84	1786.22	2.70202E-03	38.55		
	85	1847.51	2.06944E-02	14.60		
	86	1862.21	3.14583E-03	52.47	Sum	
	87	1889.07	6.94444E-03	20.00		
	88	1897.57	3.62573E-03	42.66		
	89	1939.67	7.21717E-03	51.84		
	90	2092.95	1.92901E-03	51.92		
M	91	2110.52	2.18156E-03	84.16		
m	92	2118.63	9.98389E-03	21.22		
	93	2184.07	1.61458E-03	59.60		
	95	2251.99	2.50000E-03	57.20	Sum	
	96	2309.80	2.25000E-03	44.62		
	97	2447.93	8.04805E-03	25.13		
	98	2613.84	3.07099E-03	54.38		

Analysis Report for 1506043-04

FEEBRISID-09-088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	-2.09E+00	1.72E+00	1.72E+00
+		NA-22	1274.54		99.94	5.23E-02	1.73E-01	1.73E-01
+		NA-24	1368.53		99.99	8.15E+08	1.77E+10	1.95E+11
			2754.09		99.86	0.00E+00		1.77E+10
+		AL-26	1808.65		99.76	3.55E-02	1.46E-01	1.46E-01
+		K-40	1460.81	*	10.67	6.90E+00	2.12E+00	2.12E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	3.10E+00	2.57E-01	3.01E-01
			78.34		96.00	1.90E+00		2.57E-01
+		SC-46	889.25		99.98	9.09E-02	2.31E-01	2.31E-01
			1120.51		99.99	3.36E+00		6.49E-01
+		V-48	983.52		99.98	-4.09E-02	5.27E-01	5.27E-01
			1312.10		97.50	3.67E-01		5.91E-01
+		CR-51	320.08		9.83	7.53E-01	2.48E+00	2.48E+00
+		MN-54	834.83		99.97	-1.62E-01	2.10E-01	2.10E-01
+		CO-56	846.75		99.96	7.53E-02	2.32E-01	2.32E-01
			1037.75		14.03	-1.11E+00		1.39E+00
			1238.25		67.00	2.08E+00		7.04E-01
			1771.40		15.51	1.46E-02		1.20E+00
			2598.48		16.90	-4.62E-02		4.47E-01
+		CO-57	122.06	*	85.51	1.11E-01	1.96E-01	1.96E-01
			136.48		10.60	4.15E-01		1.43E+00
+		CO-58	810.76		99.40	6.22E-02	2.15E-01	2.15E-01
+		FE-59	1099.22		56.50	-1.22E-01	4.47E-01	4.47E-01
			1291.56		43.20	5.48E-02		6.04E-01
+		CO-60	1173.22		100.00	-5.39E-02	1.70E-01	1.70E-01
			1332.49		100.00	-1.12E-02		1.93E-01
+		ZN-65	1115.52		50.75	-3.07E-02	4.10E-01	4.10E-01
+		GA-67	93.31		35.70	6.86E+01	1.01E+02	1.01E+02
			208.95		2.24	8.66E+00		1.36E+03
			300.22		16.00	-7.12E+00		2.22E+02
+		SE-75	121.11		16.70	-1.82E-01	2.71E-01	9.13E-01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	3.50E-02	2.71E-01	2.76E-01
		264.65		59.80	1.00E-01		2.71E-01
		279.53		25.20	-4.00E-01		6.51E-01
		400.65		11.40	2.70E+00		1.94E+00
+	RB-82	776.52		13.00	-1.08E+00	2.23E+00	2.23E+00
+	RB-83	520.41		46.00	4.70E-02	3.12E-01	3.12E-01
		529.64		30.30	-1.87E-01		4.89E-01
		552.65		16.40	-2.95E-03		8.30E-01
+	KR-85	513.99		0.43	-1.51E+01	3.02E+01	3.02E+01
+	SR-85	513.99		99.27	-8.61E-02	1.72E-01	1.72E-01
+	Y-88	898.02		93.40	2.06E-02	1.79E-01	2.15E-01
		1836.01		99.38	1.04E-01		1.79E-01
+	NB-93M	16.57		9.43	5.54E+04	2.45E+04	2.45E+04
+	NB-94	702.63		100.00	1.55E-01	1.77E-01	1.79E-01
		871.10		100.00	3.19E-02		1.77E-01
+	NB-95	765.79		99.81	1.37E+00	4.63E-01	4.63E-01
+	NB-95M	235.69	*	25.00	3.62E+02	1.67E+02	1.67E+02
+	ZR-95	724.18		43.70	-2.13E-01	3.83E-01	4.88E-01
		756.72		55.30	7.93E-02		3.83E-01
+	MO-99	181.06		6.20	-4.16E+00	6.58E+02	1.37E+03
		739.58		12.80	-2.10E+02		6.58E+02
		778.00		4.50	4.21E+02		1.92E+03
+	RU-103	497.08		89.00	7.08E-03	2.19E-01	2.19E-01
+	RU-106	621.84		9.80	-8.57E-01	1.47E+00	1.47E+00
+	AG-108M	433.93		89.90	-1.28E-02	1.46E-01	1.46E-01
		614.37		90.40	1.78E-02		1.94E-01
		722.95		90.50	-4.98E-02		1.85E-01
+	CD-109	88.03	*	3.72	1.13E+01	1.49E+01	1.49E+01
+	AG-110M	657.75		93.14	-6.77E-03	1.67E-01	1.67E-01
		677.61		10.53	6.70E-01		1.60E+00
		706.67		16.46	-1.05E-01		1.14E+00
		763.93		21.98	-1.97E-02		9.02E-01
		884.67		71.63	1.10E-01		2.90E-01
		1384.27		23.94	-2.70E-01		9.52E-01
+	CD-113M	263.70		0.02	2.98E+02	6.11E+02	6.11E+02
+	SN-113	255.12		1.93	2.89E+01	2.68E-01	1.14E+01
		391.69		64.90	-6.94E-02		2.68E-01
+	TE123M	159.00		84.10	-4.28E-02	2.08E-01	2.08E-01
+	SB-124	602.71		97.87	6.67E-03	2.24E-01	2.24E-01
		645.85		7.26	4.36E-01		2.83E+00
		722.78		11.10	-5.41E-01		2.02E+00
		1691.02		49.00	3.26E-01		4.92E-01
+	I-125	35.49		6.49	1.11E+01	1.33E+01	1.33E+01
+	SB-125	176.33		6.89	-6.58E-01	5.55E-01	2.17E+00
		427.89		29.33	5.52E-01		5.55E-01
		463.38		10.35	6.92E-01		1.29E+00
		600.56		17.80	-1.65E-01		9.18E-01
		635.90		11.32	1.67E-01		1.34E+00

Analysis Report for 1506043-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	-8.02E-02	6.35E-01	6.84E-01
		666.33		99.60	8.41E-01		7.60E-01
		695.00		99.60	4.65E-01		6.35E-01
		720.50		53.80	1.15E+00		1.32E+00
+	SN-126	87.57	*	37.00	1.10E+00	1.44E+00	1.44E+00
+	SB-127	473.00		25.00	-1.03E+01	4.18E+01	4.94E+01
		685.20		35.70	1.92E+01		4.18E+01
		783.80		14.70	-2.08E+01		1.19E+02
+	I-129	29.78		57.00	-1.34E+01	2.87E+00	2.87E+00
		33.60		13.20	-1.29E+01		6.17E+00
		39.58		7.52	-7.76E-02		5.38E+00
+	I-131	284.30		6.05	-1.88E+00	1.34E+00	2.34E+01
		364.48		81.20	-1.43E-01		1.34E+00
		636.97		7.26	-4.88E+00		1.76E+01
		722.89		1.80	-2.17E+01		8.09E+01
+	TE-132	49.72		13.10	7.68E+02	3.40E+01	3.91E+02
		228.16		88.00	-2.27E+00		3.40E+01
+	BA-133	81.00		33.00	1.81E+00	2.11E-01	5.56E-01
		302.84		17.80	-6.29E-01		9.42E-01
		356.01		60.00	2.01E-02		2.11E-01
+	I-133	529.87		86.30	-5.55E+07	7.00E+07	7.00E+07
+	CS-134	563.23		8.38	-1.39E-02	1.87E-01	1.45E+00
		569.32		15.43	0.00E+00		8.27E-01
		604.70		97.60	6.51E-04		2.87E-01
		795.84		85.40	-1.88E-02		1.87E-01
		801.93		8.73	2.82E-01		1.89E+00
+	CS-135	268.24		16.00	1.35E+00	1.36E+00	1.36E+00
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	1.73E+01	6.48E-01	8.81E+00
		163.89		4.61	-9.29E-02		1.23E+01
		176.55		13.56	-6.95E-01		4.14E+00
		273.65		12.66	-6.16E+00		5.05E+00
		340.57		48.50	-8.50E-01		1.16E+00
		818.50		99.70	9.56E-02		6.48E-01
		1048.07		79.60	1.07E-02		8.59E-01
		1235.34		19.70	9.64E+00		6.34E+00
+	CS-137	661.65		85.12	2.85E-02	1.79E-01	1.79E-01
+	LA-138	788.74		34.00	6.25E-02	2.74E-01	5.79E-01
		1435.80		66.00	1.20E-01		2.74E-01
+	CE-139	165.85		80.35	1.24E-01	2.10E-01	2.10E-01
+	BA-140	162.64		6.70	2.21E+00	2.02E+00	8.81E+00
		304.84		4.50	8.65E+00		1.35E+01
		423.70		3.20	5.33E+00		1.89E+01
		437.55		2.00	-8.27E+00		2.48E+01
		537.32		25.00	2.01E-01		2.02E+00
+	LA-140	328.77		20.50	5.32E+00	1.50E+00	3.21E+00
		487.03	*	45.50	1.39E+00		1.50E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	815.85		23.50	-1.41E+00	1.50E+00	2.61E+00
		1596.49	*	95.49	4.81E-01		2.17E+00
+	CE-141	145.44		48.40	2.30E+00	6.49E-01	6.49E-01
+	CE-143	57.36		11.80	-2.14E+04	2.38E+05	4.61E+05
		293.26		42.00	6.00E+05		2.38E+05
		664.55		5.20	7.67E+05		1.08E+06
+	CE-144	133.54		10.80	4.09E-01	1.35E+00	1.35E+00
+	PM-144	476.78		42.00	-3.93E-01	1.40E-01	3.23E-01
		618.01		98.60	-3.30E-02		1.40E-01
		696.49		99.49	6.05E-02		1.60E-01
+	PM-145	36.85		21.70	1.87E+00	1.30E+00	2.53E+00
		37.36		39.70	9.59E-01		1.30E+00
		42.30		15.10	6.77E-01		2.19E+00
		72.40		2.31	-1.13E+01		6.42E+00
+	PM-146	453.90		39.94	1.27E-02	3.33E-01	3.33E-01
		735.90		14.01	9.85E-02		1.16E+00
		747.13		13.10	-2.21E-01		1.14E+00
+	ND-147	91.11		28.90	-1.27E+01	2.86E+00	2.86E+00
		531.02		13.10	-3.60E-01		4.76E+00
+	PM-149	285.90	*	3.10	1.04E+04	1.49E+04	1.49E+04
+	EU-152	121.78		20.50	9.52E-02	6.55E-01	6.55E-01
		244.69		5.40	-1.96E+01		3.14E+00
		344.27		19.13	1.10E-01		7.45E-01
		778.89		9.20	4.39E-01		1.67E+00
		964.01		10.40	-8.05E-02		1.86E+00
		1085.78		7.22	1.13E+00		2.30E+00
		1112.02		9.60	-4.03E-01		1.65E+00
		1407.95		14.94	2.55E+00		1.96E+00
+	GD-153	97.43		31.30	4.66E-01	4.96E-01	4.96E-01
		103.18		22.20	-3.24E-01		6.20E-01
+	EU-154	123.07		40.50	4.05E-01	3.41E-01	3.41E-01
		723.30		19.70	-2.30E-01		8.56E-01
		873.19		11.50	2.33E-01		1.55E+00
		996.32		10.30	-1.22E+00		1.56E+00
		1004.76		17.90	2.27E-01		1.03E+00
		1274.45		35.50	1.45E-01		4.80E-01
+	EU-155	86.50		30.90	-4.96E+00	6.20E-01	6.72E-01
		105.30		20.70	2.57E-01		6.20E-01
+	EU-156	811.77		10.40	1.02E-01	4.69E+00	4.69E+00
		1153.47		7.20	1.72E+01		1.08E+01
		1230.71		8.90	1.80E-01		6.18E+00
+	HO-166M	184.41		72.60	2.17E-01	2.74E-01	2.89E-01
		280.45		29.60	-2.95E-01		4.80E-01
		410.94		11.10	2.29E-01		1.29E+00
		711.69		54.10	6.35E-02		2.74E-01
+	TM-171	66.72		0.14	1.61E+03	2.04E+02	2.04E+02
+	HF-172	81.75		4.52	-3.63E+01	1.22E+00	4.08E+00
		125.81		11.30	2.36E-03		1.22E+00
+	LU-172	181.53		20.60	-2.17E+00	3.60E+00	9.84E+00

Analysis Report for 1506043-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-172	810.06		16.63	3.89E+00	3.60E+00	1.35E+01
		912.12		15.25	1.33E+01		1.83E+01
		1093.66		62.50	-8.98E-01		3.60E+00
+	LU-173	100.72		5.24	-2.45E+00	1.14E+00	2.61E+00
		272.11		21.20	2.40E+00		1.14E+00
+	HF-175	343.40		84.00	-4.49E-02	2.15E-01	2.15E-01
+	LU-176	88.34		13.30	3.95E+00	1.48E-01	1.52E+00
		201.83		86.00	3.86E-02		1.79E-01
		306.78		94.00	2.55E-02		1.48E-01
+	TA-182	67.75	*	41.20	7.98E+00	6.99E-01	6.99E-01
		1121.30	*	34.90	9.24E+00		8.82E-01
		1189.05		16.23	-1.34E-01		1.15E+00
		1221.41		26.98	-3.59E-01		7.19E-01
		1231.02		11.44	-1.40E-01		1.73E+00
+	IR-192	308.46		29.68	3.17E-01	3.41E-01	5.68E-01
		468.07		48.10	8.41E-02		3.41E-01
+	HG-203	279.19		77.30	-8.08E-02	2.61E-01	2.61E-01
+	BI-207	569.67		97.72	0.00E+00	1.28E-01	1.28E-01
		1063.62		74.90	-1.29E-02		2.24E-01
+	TL-208	583.14		30.22	5.38E-01	3.92E-01	5.76E-01
		860.37		4.48	1.47E+00		4.04E+00
		2614.66		35.85	2.95E-01		3.92E-01
+	BI-210M	262.00		45.00	1.51E-01	3.15E-01	3.15E-01
		300.00		23.00	-2.40E-02		7.48E-01
+	PB-210	46.50	*	4.25	6.24E+01	1.12E+01	1.12E+01
+	PB-211	404.84	*	2.90	6.77E+00	8.43E+00	1.01E+01
		831.96	*	2.90	9.15E+00		8.43E+00
+	BI-212	727.17		11.80	2.20E-02	1.33E+00	1.33E+00
		1620.62		2.75	8.65E-01		6.54E+00
+	PB-212	238.63		44.60	-7.90E+00	4.23E-01	4.23E-01
		300.09		3.41	-1.62E-01		5.05E+00
+	BI-214	609.31	*	46.30	1.76E+01	2.95E-01	5.15E-01
		1120.29	*	15.10	1.83E+01		1.75E+00
		1764.49	*	15.80	2.05E+01		2.95E-01
		2204.22	*	4.98	1.79E+01		1.71E+00
+	PB-214	295.21	*	19.19	2.12E+01	6.12E-01	1.87E+00
		351.92	*	37.19	2.23E+01		6.12E-01
+	RN-219	401.80	*	6.50	6.05E+00	4.47E+00	4.47E+00
+	RA-223	323.87	*	3.88	6.04E+00	1.19E+01	1.19E+01
+	RA-224	240.98		3.95	3.83E+01	6.55E+00	6.55E+00
+	RA-225	40.00		31.00	-5.84E-02	4.06E+00	4.06E+00
+	RA-226	186.21	*	3.28	4.13E+01	7.55E+00	7.55E+00
+	TH-227	50.10		8.40	5.68E+00	2.89E+00	2.89E+00
		236.00	*	11.50	6.38E+00		2.95E+00
		256.20	*	6.30	8.25E+00		3.81E+00
+	AC-228	338.32	*	11.40	1.79E+00	8.26E-01	4.18E+00
		911.07	*	27.70	5.34E-01		8.26E-01
		969.11		16.60	-2.96E-01		1.12E+00

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TH-230	48.44		16.90	-1.43E+01	1.50E+00	1.50E+00
		62.85		4.60	3.89E+00		3.93E+00
		67.67		0.37	7.92E+02		7.70E+01
+	PA-231	283.67		1.60	-8.15E-01	7.26E+00	1.02E+01
		302.67		2.30	-4.84E+00		7.26E+00
+	TH-231	25.64		14.70	-2.28E+01	8.40E+00	3.89E+01
		84.21	*	6.40	2.03E+01		8.40E+00
+	PA-233	311.98		38.60	-1.11E-01	6.99E-01	6.99E-01
+	PA-234	131.20		20.40	-1.49E-01	6.56E-01	6.56E-01
		733.99		8.80	1.20E+00		1.87E+00
		946.00		12.00	3.49E-01		1.48E+00
+	PA-234M	1001.03		0.92	-3.14E-01	1.94E+01	1.94E+01
+	TH-234	63.29		3.80	4.68E+00	4.72E+00	4.72E+00
+	U-235	143.76		10.50	5.75E+00	1.75E+00	1.75E+00
		163.35		4.70	8.10E-01		3.23E+00
		205.31		4.70	7.52E-01		3.19E+00
+	NP-237	86.50		12.60	-1.20E+01	1.63E+00	1.63E+00
+	NP-239	106.10		22.70	-1.76E+02	8.83E+02	8.83E+02
		228.18		10.70	-1.44E+02		2.17E+03
		277.60		14.10	1.65E+02		1.56E+03
+	AM-241	59.54		35.90	-2.04E-01	4.84E-01	4.84E-01
+	AM-243	74.67	*	66.00	1.92E+00	8.48E-01	8.48E-01
+	CM-243	209.75		3.29	2.95E+00	9.81E-01	4.56E+00
		228.14		10.60	-9.08E-02		1.36E+00
		277.60		14.00	1.04E-01		9.81E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.72E+00	1.72E+00	-2.09E+00	8.22E-01
	NA-22	1274.54		99.94	1.73E-01	1.73E-01	5.23E-02	8.03E-02
	NA-24	1368.53		99.99	1.95E+11	1.77E+10	8.15E+08	8.98E+10
		2754.09		99.86	1.77E+10		0.00E+00	0.00E+00
	AL-26	1808.65		99.76	1.46E-01	1.46E-01	3.55E-02	6.54E-02
+	K-40	1460.81	*	10.67	2.12E+00	2.12E+00	6.90E+00	9.97E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	3.01E-01	2.57E-01	3.10E+00	1.49E-01
		78.34		96.00	2.57E-01		1.90E+00	1.27E-01
	SC-46	889.25		99.98	2.31E-01	2.31E-01	9.09E-02	1.10E-01
		1120.51		99.99	6.49E-01		3.36E+00	3.18E-01
	V-48	983.52		99.98	5.27E-01	5.27E-01	-4.09E-02	2.49E-01
		1312.10		97.50	5.91E-01		3.67E-01	2.77E-01
	CR-51	320.08		9.83	2.48E+00	2.48E+00	7.53E-01	1.20E+00
	MN-54	834.83		99.97	2.10E-01	2.10E-01	-1.62E-01	1.01E-01
	CO-56	846.75		99.96	2.32E-01	2.32E-01	7.53E-02	1.11E-01
		1037.75		14.03	1.39E+00		-1.11E+00	6.49E-01
		1238.25		67.00	7.04E-01		2.08E+00	3.41E-01
		1771.40		15.51	1.20E+00		1.46E-02	5.39E-01
		2598.48		16.90	4.47E-01		-4.62E-02	1.67E-01
+	CO-57	122.06	*	85.51	1.96E-01	1.96E-01	1.11E-01	9.66E-02
		136.48		10.60	1.43E+00		4.15E-01	7.01E-01
	CO-58	810.76		99.40	2.15E-01	2.15E-01	6.22E-02	1.02E-01
	FE-59	1099.22		56.50	4.47E-01	4.47E-01	-1.22E-01	2.10E-01
		1291.56		43.20	6.04E-01		5.48E-02	2.81E-01
	CO-60	1173.22		100.00	1.70E-01	1.70E-01	-5.39E-02	7.95E-02
		1332.49		100.00	1.93E-01		-1.12E-02	9.02E-02
	ZN-65	1115.52		50.75	4.10E-01	4.10E-01	-3.07E-02	1.94E-01
	GA-67	93.31		35.70	1.01E+02	1.01E+02	6.86E+01	4.98E+01
		208.95		2.24	1.36E+03		8.66E+00	6.68E+02
		300.22		16.00	2.22E+02		-7.12E+00	1.08E+02
	SE-75	121.11		16.70	9.13E-01	2.71E-01	-1.82E-01	4.49E-01
		136.00		59.20	2.76E-01		3.50E-02	1.35E-01
		264.65		59.80	2.71E-01		1.00E-01	1.32E-01
		279.53		25.20	6.51E-01		-4.00E-01	3.16E-01
		400.65		11.40	1.94E+00		2.70E+00	9.46E-01
	RB-82	776.52		13.00	2.23E+00	2.23E+00	-1.08E+00	1.05E+00
	RB-83	520.41		46.00	3.12E-01	3.12E-01	4.70E-02	1.48E-01
		529.64		30.30	4.89E-01		-1.87E-01	2.32E-01
		552.65		16.40	8.30E-01		-2.95E-03	3.92E-01
	KR-85	513.99		0.43	3.02E+01	3.02E+01	-1.51E+01	1.44E+01
	SR-85	513.99		99.27	1.72E-01	1.72E-01	-8.61E-02	8.20E-02
	Y-88	898.02		93.40	2.15E-01	1.79E-01	2.06E-02	1.02E-01
		1836.01		99.38	1.79E-01		1.04E-01	8.07E-02
	NB-93M	16.57		9.43	2.45E+04	2.45E+04	5.54E+04	1.21E+04
	NB-94	702.63		100.00	1.79E-01	1.77E-01	1.55E-01	8.57E-02
		871.10		100.00	1.77E-01		3.19E-02	8.42E-02
	NB-95	765.79		99.81	4.63E-01	4.63E-01	1.37E+00	2.25E-01
	NB-95M	235.69	*	25.00	1.67E+02	1.67E+02	3.62E+02	8.28E+01
	ZR-95	724.18		43.70	4.88E-01	3.83E-01	-2.13E-01	2.33E-01
		756.72		55.30	3.83E-01		7.93E-02	1.82E-01
	MO-99	181.06		6.20	1.37E+03	6.58E+02	-4.16E+00	6.71E+02
		739.58		12.80	6.58E+02		-2.10E+02	3.12E+02

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	778.00		4.50	1.92E+03	6.58E+02	4.21E+02	9.09E+02
	RU-103	497.08		89.00	2.19E-01	2.19E-01	7.08E-03	1.04E-01
	RU-106	621.84		9.80	1.47E+00	1.47E+00	-8.57E-01	6.99E-01
	AG-108M	433.93		89.90	1.46E-01	1.46E-01	-1.28E-02	7.00E-02
		614.37		90.40	1.94E-01		1.78E-02	9.34E-02
		722.95		90.50	1.85E-01		-4.98E-02	8.85E-02
+	CD-109	88.03	*	3.72	1.49E+01	1.49E+01	1.13E+01	7.41E+00
	AG-110M	657.75		93.14	1.67E-01	1.67E-01	-6.77E-03	7.94E-02
		677.61		10.53	1.60E+00		6.70E-01	7.64E-01
		706.67		16.46	1.14E+00		-1.05E-01	5.48E-01
		763.93		21.98	9.02E-01		-1.97E-02	4.31E-01
		884.67		71.63	2.90E-01		1.10E-01	1.39E-01
		1384.27		23.94	9.52E-01		-2.70E-01	4.48E-01
	CD-113M	263.70		0.02	6.11E+02	6.11E+02	2.98E+02	2.97E+02
	SN-113	255.12		1.93	1.14E+01	2.68E-01	2.89E+01	5.59E+00
		391.69		64.90	2.68E-01		-6.94E-02	1.30E-01
	TE123M	159.00		84.10	2.08E-01	2.08E-01	-4.28E-02	1.02E-01
	SB-124	602.71		97.87	2.24E-01	2.24E-01	6.67E-03	1.08E-01
		645.85		7.26	2.83E+00		4.36E-01	1.35E+00
		722.78		11.10	2.02E+00		-5.41E-01	9.62E-01
		1691.02		49.00	4.92E-01		3.26E-01	2.26E-01
	I-125	35.49		6.49	1.33E+01	1.33E+01	1.11E+01	6.52E+00
	SB-125	176.33		6.89	2.17E+00	5.55E-01	-6.58E-01	1.07E+00
		427.89		29.33	5.55E-01		5.52E-01	2.68E-01
		463.38		10.35	1.29E+00		6.92E-01	6.16E-01
		600.56		17.80	9.18E-01		-1.65E-01	4.40E-01
		635.90		11.32	1.34E+00		1.67E-01	6.40E-01
	SB-126	414.70		83.30	6.84E-01	6.35E-01	-8.02E-02	3.30E-01
		666.33		99.60	7.60E-01		8.41E-01	3.66E-01
		695.00		99.60	6.35E-01		4.65E-01	3.03E-01
		720.50		53.80	1.32E+00		1.15E+00	6.32E-01
+	SN-126	87.57	*	37.00	1.44E+00	1.44E+00	1.10E+00	7.18E-01
	SB-127	473.00		25.00	4.94E+01	4.18E+01	-1.03E+01	2.37E+01
		685.20		35.70	4.18E+01		1.92E+01	2.00E+01
		783.80		14.70	1.19E+02		-2.08E+01	5.71E+01
	I-129	29.78		57.00	2.87E+00	2.87E+00	-1.34E+01	1.41E+00
		33.60		13.20	6.17E+00		-1.29E+01	3.02E+00
		39.58		7.52	5.38E+00		-7.76E-02	2.64E+00
	I-131	284.30		6.05	2.34E+01	1.34E+00	-1.88E+00	1.14E+01
		364.48		81.20	1.34E+00		-1.43E-01	6.44E-01
		636.97		7.26	1.76E+01		-4.88E+00	8.39E+00
		722.89		1.80	8.09E+01		-2.17E+01	3.86E+01
	TE-132	49.72		13.10	3.91E+02	3.40E+01	7.68E+02	1.92E+02
		228.16		88.00	3.40E+01		-2.27E+00	1.66E+01
	BA-133	81.00		33.00	5.56E-01	2.11E-01	1.81E+00	2.75E-01
		302.84		17.80	9.42E-01		-6.29E-01	4.60E-01
		356.01		60.00	2.11E-01		2.01E-02	1.02E-01
	I-133	529.87		86.30	7.00E+07	7.00E+07	-5.55E+07	3.32E+07
	CS-134	563.23		8.38	1.45E+00	1.87E-01	-1.39E-02	6.86E-01
		569.32		15.43	8.27E-01		0.00E+00	3.92E-01
		604.70		97.60	2.87E-01		6.51E-04	1.40E-01
		795.84		85.40	1.87E-01		-1.88E-02	8.84E-02
		801.93		8.73	1.89E+00		2.82E-01	8.97E-01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-135	268.24		16.00	1.36E+00	1.36E+00	1.35E+00	6.68E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	8.81E+00	6.48E-01	1.73E+01	4.34E+00
		163.89		4.61	1.23E+01		-9.29E-02	6.04E+00
		176.55		13.56	4.14E+00		-6.95E-01	2.03E+00
		273.65		12.66	5.05E+00		-6.16E+00	2.47E+00
		340.57		48.50	1.16E+00		-8.50E-01	5.64E-01
		818.50		99.70	6.48E-01		9.56E-02	3.08E-01
		1048.07		79.60	8.59E-01		1.07E-02	4.06E-01
		1235.34		19.70	6.34E+00		9.64E+00	3.06E+00
	CS-137	661.65		85.12	1.79E-01	1.79E-01	2.85E-02	8.55E-02
	LA-138	788.74		34.00	5.79E-01	2.74E-01	6.25E-02	2.78E-01
		1435.80		66.00	2.74E-01		1.20E-01	1.27E-01
	CE-139	165.85		80.35	2.10E-01	2.10E-01	1.24E-01	1.03E-01
	BA-140	162.64		6.70	8.81E+00	2.02E+00	2.21E+00	4.33E+00
		304.84		4.50	1.35E+01		8.65E+00	6.56E+00
		423.70		3.20	1.89E+01		5.33E+00	9.12E+00
		437.55		2.00	2.48E+01		-8.27E+00	1.19E+01
		537.32		25.00	2.02E+00		2.01E-01	9.65E-01
+	LA-140	328.77		20.50	3.21E+00	1.50E+00	5.32E+00	1.57E+00
		487.03	*	45.50	1.50E+00		1.39E+00	7.26E-01
		815.85		23.50	2.61E+00		-1.41E+00	1.23E+00
		1596.49	*	95.49	2.17E+00		4.81E-01	1.06E+00
	CE-141	145.44		48.40	6.49E-01	6.49E-01	2.30E+00	3.20E-01
	CE-143	57.36		11.80	4.61E+05	2.38E+05	-2.14E+04	2.27E+05
		293.26		42.00	2.38E+05		6.00E+05	1.18E+05
		664.55		5.20	1.08E+06		7.67E+05	5.19E+05
	CE-144	133.54		10.80	1.35E+00	1.35E+00	4.09E-01	6.65E-01
	PM-144	476.78		42.00	3.23E-01	1.40E-01	-3.93E-01	1.54E-01
		618.01		98.60	1.40E-01		-3.30E-02	6.64E-02
		696.49		99.49	1.60E-01		6.05E-02	7.63E-02
	PM-145	36.85		21.70	2.53E+00	1.30E+00	1.87E+00	1.24E+00
		37.36		39.70	1.30E+00		9.59E-01	6.38E-01
		42.30		15.10	2.19E+00		6.77E-01	1.07E+00
		72.40		2.31	6.42E+00		-1.13E+01	3.16E+00
	PM-146	453.90		39.94	3.33E-01	3.33E-01	1.27E-02	1.60E-01
		735.90		14.01	1.16E+00		9.85E-02	5.51E-01
		747.13		13.10	1.14E+00		-2.21E-01	5.40E-01
	ND-147	91.11		28.90	2.86E+00	2.86E+00	-1.27E+01	1.41E+00
		531.02		13.10	4.76E+00		-3.60E-01	2.27E+00
+	PM-149	285.90	*	3.10	1.49E+04	1.49E+04	1.04E+04	7.31E+03
	EU-152	121.78		20.50	6.55E-01	6.55E-01	9.52E-02	3.22E-01
		244.69		5.40	3.14E+00		-1.96E+01	1.54E+00
		344.27		19.13	7.45E-01		1.10E-01	3.61E-01
		778.89		9.20	1.67E+00		4.39E-01	7.91E-01
		964.01		10.40	1.86E+00		-8.05E-02	8.86E-01
		1085.78		7.22	2.30E+00		1.13E+00	1.07E+00
		1112.02		9.60	1.65E+00		-4.03E-01	7.71E-01
		1407.95		14.94	1.96E+00		2.55E+00	9.35E-01
	GD-153	97.43		31.30	4.96E-01	4.96E-01	4.66E-01	2.44E-01
		103.18		22.20	6.20E-01		-3.24E-01	3.05E-01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	123.07		40.50	3.41E-01	3.41E-01	4.05E-01	1.68E-01
		723.30		19.70	8.56E-01		-2.30E-01	4.09E-01
		873.19		11.50	1.55E+00		2.33E-01	7.35E-01
		996.32		10.30	1.56E+00		-1.22E+00	7.32E-01
		1004.76		17.90	1.03E+00		2.27E-01	4.89E-01
		1274.45		35.50	4.80E-01		1.45E-01	2.23E-01
	EU-155	86.50		30.90	6.72E-01	6.20E-01	-4.96E+00	3.33E-01
		105.30		20.70	6.20E-01		2.57E-01	3.05E-01
	EU-156	811.77		10.40	4.69E+00	4.69E+00	1.02E-01	2.22E+00
		1153.47		7.20	1.08E+01		1.72E+01	5.16E+00
		1230.71		8.90	6.18E+00		1.80E-01	2.89E+00
	HO-166M	184.41		72.60	2.89E-01	2.74E-01	2.17E-01	1.42E-01
		280.45		29.60	4.80E-01		-2.95E-01	2.34E-01
		410.94		11.10	1.29E+00		2.29E-01	6.22E-01
		711.69		54.10	2.74E-01		6.35E-02	1.30E-01
	TM-171	66.72		0.14	2.04E+02	2.04E+02	1.61E+03	1.01E+02
	HF-172	81.75		4.52	4.08E+00	1.22E+00	-3.63E+01	2.01E+00
		125.81		11.30	1.22E+00		2.36E-03	6.01E-01
	LU-172	181.53		20.60	9.84E+00	3.60E+00	-2.17E+00	4.83E+00
		810.06		16.63	1.35E+01		3.89E+00	6.39E+00
		912.12		15.25	1.83E+01		1.33E+01	8.77E+00
		1093.66		62.50	3.60E+00		-8.98E-01	1.69E+00
	LU-173	100.72		5.24	2.61E+00	1.14E+00	-2.45E+00	1.29E+00
		272.11		21.20	1.14E+00		2.40E+00	5.60E-01
	HF-175	343.40		84.00	2.15E-01	2.15E-01	-4.49E-02	1.04E-01
	LU-176	88.34		13.30	1.52E+00	1.48E-01	3.95E+00	7.51E-01
		201.83		86.00	1.79E-01		3.86E-02	8.77E-02
		306.78		94.00	1.48E-01		2.55E-02	7.20E-02
+	TA-182	67.75	*	41.20	6.99E-01	6.99E-01	7.98E+00	3.46E-01
		1121.30	*	34.90	8.82E-01		9.24E+00	4.23E-01
		1189.05		16.23	1.15E+00		-1.34E-01	5.36E-01
		1221.41		26.98	7.19E-01		-3.59E-01	3.35E-01
		1231.02		11.44	1.73E+00		-1.40E-01	8.07E-01
	IR-192	308.46		29.68	5.68E-01	3.41E-01	3.17E-01	2.75E-01
		468.07		48.10	3.41E-01		8.41E-02	1.63E-01
	HG-203	279.19		77.30	2.61E-01	2.61E-01	-8.08E-02	1.27E-01
	BI-207	569.67		97.72	1.28E-01	1.28E-01	0.00E+00	6.07E-02
		1063.62		74.90	2.24E-01		-1.29E-02	1.05E-01
	TL-208	583.14		30.22	5.76E-01	3.92E-01	5.38E-01	2.77E-01
		860.37		4.48	4.04E+00		1.47E+00	1.92E+00
		2614.66		35.85	3.92E-01		2.95E-01	1.75E-01
	BI-210M	262.00		45.00	3.15E-01	3.15E-01	1.51E-01	1.53E-01
		300.00		23.00	7.48E-01		-2.40E-02	3.65E-01
+	PB-210	46.50	*	4.25	1.12E+01	1.12E+01	6.24E+01	5.55E+00
+	PB-211	404.84	*	2.90	1.01E+01	8.43E+00	6.77E+00	4.94E+00
		831.96	*	2.90	8.43E+00		9.15E+00	4.07E+00
	BI-212	727.17		11.80	1.33E+00	1.33E+00	2.20E-02	6.35E-01
		1620.62		2.75	6.54E+00		8.65E-01	3.01E+00
	PB-212	238.63		44.60	4.23E-01	4.23E-01	-7.90E+00	2.08E-01
		300.09		3.41	5.05E+00		-1.62E-01	2.46E+00
+	BI-214	609.31	*	46.30	5.15E-01	2.95E-01	1.76E+01	2.50E-01
		1120.29	*	15.10	1.75E+00		1.83E+01	8.40E-01
		1764.49	*	15.80	2.95E-01		2.05E+01	1.01E-01

Analysis Report for 1506043-04

FEEBRISID-09-088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-214	2204.22	*	4.98	1.71E+00	2.95E-01	1.79E+01	6.99E-01
+	PB-214	295.21	*	19.19	1.87E+00	6.12E-01	2.12E+01	9.27E-01
		351.92	*	37.19	6.12E-01		2.23E+01	3.00E-01
+	RN-219	401.80	*	6.50	4.47E+00	4.47E+00	6.05E+00	2.20E+00
+	RA-223	323.87	*	3.88	1.19E+01	1.19E+01	6.04E+00	5.88E+00
	RA-224	240.98		3.95	6.55E+00	6.55E+00	3.83E+01	3.23E+00
	RA-225	40.00		31.00	4.06E+00	4.06E+00	-5.84E-02	1.99E+00
+	RA-226	186.21	*	3.28	7.55E+00	7.55E+00	4.13E+01	3.73E+00
+	TH-227	50.10		8.40	2.89E+00	2.89E+00	5.68E+00	1.42E+00
		236.00	*	11.50	2.95E+00		6.38E+00	1.46E+00
		256.20	*	6.30	3.81E+00		8.25E+00	1.87E+00
+	AC-228	338.32	*	11.40	4.18E+00	8.26E-01	1.79E+00	2.07E+00
		911.07	*	27.70	8.26E-01		5.34E-01	3.96E-01
		969.11		16.60	1.12E+00		-2.96E-01	5.31E-01
	TH-230	48.44		16.90	1.50E+00	1.50E+00	-1.43E+01	7.39E-01
		62.85		4.60	3.93E+00		3.89E+00	1.94E+00
		67.67		0.37	7.70E+01		7.92E+02	3.82E+01
	PA-231	283.67		1.60	1.02E+01	7.26E+00	-8.15E-01	4.96E+00
		302.67		2.30	7.26E+00		-4.84E+00	3.54E+00
+	TH-231	25.64		14.70	3.89E+01	8.40E+00	-2.28E+01	1.91E+01
		84.21	*	6.40	8.40E+00		2.03E+01	4.18E+00
	PA-233	311.98		38.60	6.99E-01	6.99E-01	-1.11E-01	3.39E-01
	PA-234	131.20		20.40	6.56E-01	6.56E-01	-1.49E-01	3.22E-01
		733.99		8.80	1.87E+00		1.20E+00	8.90E-01
		946.00		12.00	1.48E+00		3.49E-01	7.01E-01
	PA-234M	1001.03		0.92	1.94E+01	1.94E+01	-3.14E-01	9.16E+00
	TH-234	63.29		3.80	4.72E+00	4.72E+00	4.68E+00	2.33E+00
	U-235	143.76		10.50	1.75E+00	1.75E+00	5.75E+00	8.61E-01
		163.35		4.70	3.23E+00		8.10E-01	1.59E+00
		205.31		4.70	3.19E+00		7.52E-01	1.56E+00
	NP-237	86.50		12.60	1.63E+00	1.63E+00	-1.20E+01	8.08E-01
	NP-239	106.10		22.70	8.83E+02	8.83E+02	-1.76E+02	4.34E+02
		228.18		10.70	2.17E+03		-1.44E+02	1.06E+03
		277.60		14.10	1.56E+03		1.65E+02	7.59E+02
	AM-241	59.54		35.90	4.84E-01	4.84E-01	-2.04E-01	2.38E-01
+	AM-243	74.67	*	66.00	8.48E-01	8.48E-01	1.92E+00	4.22E-01
	CM-243	209.75		3.29	4.56E+00	9.81E-01	2.95E+00	2.23E+00
		228.14		10.60	1.36E+00		-9.08E-02	6.66E-01
		277.60		14.00	9.81E-01		1.04E-01	4.77E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506043-04

FEEBRISID-09-088-089

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-09-088-089

Elapsed Live time: 3600
Elapsed Real Time: 3603

Channel								
1:	0	0	0	0	0	0	58	517
9:	1023	1295	1024	812	2337	1529	1634	1643
17:	462	952	541	226	270	220	223	229
25:	238	265	348	360	234	220	246	464
33:	312	198	246	290	306	267	257	274
41:	333	301	301	345	373	794	1701	376
49:	296	562	464	358	436	487	364	377
57:	393	392	403	440	423	473	516	585
65:	485	469	996	2816	765	422	434	461
73:	446	613	1608	748	2079	1507	505	591
81:	1015	676	523	1678	591	406	733	801
89:	448	491	350	340	408	472	575	323
97:	270	330	252	280	213	229	233	236
105:	208	214	202	191	206	197	206	238
113:	279	221	203	219	168	209	204	171
121:	213	235	251	230	224	207	195	227
129:	202	212	206	182	227	203	216	240
137:	203	243	210	220	229	225	269	680
145:	358	237	219	206	206	227	270	209
153:	230	440	356	231	196	222	228	203
161:	213	241	189	198	200	199	201	183
169:	172	204	176	185	166	167	167	188
177:	191	172	199	203	143	186	192	179
185:	232	923	545	172	160	154	158	166
193:	155	143	165	186	184	160	159	173
201:	166	148	166	159	155	144	128	142
209:	137	149	159	142	130	120	144	129
217:	119	131	128	124	127	131	141	127
225:	117	135	129	109	118	111	125	126
233:	115	119	209	504	245	150	212	129
241:	242	909	340	109	110	102	94	96
249:	113	120	106	95	116	171	134	278
257:	196	117	140	112	83	89	110	84
265:	75	105	88	111	362	446	346	246
273:	121	97	119	76	84	92	78	83
281:	85	100	111	119	96	143	103	85
289:	66	77	79	63	75	292	1699	963
297:	92	69	114	200	107	100	138	103
305:	100	75	55	72	69	65	51	88
313:	86	85	85	81	67	71	65	64
321:	54	49	102	148	68	54	78	62
329:	117	143	102	74	83	89	83	86
337:	85	122	111	62	71	58	73	70
345:	51	76	68	59	76	141	1257	3096
353:	746	54	47	43	57	44	48	50
361:	37	46	53	46	40	47	55	52

369:	49	59	67	46	63	46	50	55

Sample Title: FEEBRISID-09-088-089

Channel								
377:	52	54	57	56	59	49	47	51
385:	52	66	82	65	82	67	66	62
393:	55	54	55	43	58	56	54	45
401:	116	190	84	80	123	78	52	54
409:	50	58	46	59	46	38	56	51
417:	54	46	53	55	49	61	64	46
425:	55	66	89	55	52	45	48	35
433:	49	43	36	36	32	43	39	40
441:	37	40	43	39	42	36	44	33
449:	36	30	44	28	37	44	48	32
457:	34	41	30	31	34	40	35	40
465:	31	27	29	36	39	43	29	28
473:	45	43	42	41	38	20	27	52
481:	51	33	28	21	35	30	61	30
489:	41	41	24	29	26	35	26	49
497:	26	24	23	31	26	39	34	39
505:	26	34	27	30	50	65	74	47
513:	32	25	26	23	24	17	21	29
521:	27	26	20	23	24	29	34	13
529:	21	31	26	27	35	30	36	22
537:	30	27	27	18	30	31	28	39
545:	25	28	21	22	15	11	28	15
553:	22	22	16	25	25	24	20	25
561:	24	18	22	25	20	24	19	30
569:	26	20	24	24	26	21	27	25
577:	29	22	36	39	36	30	52	32
585:	21	20	23	16	23	19	24	22
593:	27	23	25	31	20	29	24	29
601:	27	28	29	26	31	24	48	367
609:	1845	1076	105	23	16	21	12	21
617:	18	15	14	18	19	11	26	20
625:	19	28	28	16	17	19	17	25
633:	24	26	18	19	21	18	20	19
641:	19	23	24	32	23	14	19	18
649:	22	19	21	23	23	17	18	16
657:	17	20	17	23	19	20	16	28
665:	49	54	19	16	33	19	20	20
673:	21	17	23	20	20	21	21	25
681:	11	19	28	25	20	24	20	20
689:	23	14	14	18	14	24	22	22
697:	20	18	11	16	15	30	54	31
705:	24	18	15	17	14	15	23	15
713:	24	12	17	12	18	23	26	30
721:	29	20	20	18	16	18	20	27
729:	15	17	24	11	29	20	23	16
737:	18	13	15	19	19	18	18	17
745:	16	12	13	23	15	14	17	16
753:	16	19	20	20	16	21	17	19
761:	15	11	20	12	17	23	71	153
769:	106	33	15	17	16	10	17	12
777:	17	11	18	24	15	13	19	9
785:	28	55	36	15	12	17	20	14
793:	17	9	15	16	18	17	18	18

801:	14	10	15	21	21	53	27	13

Sample Title: FEEBRISID-09-088-089

Channel								
809:	15	23	20	13	13	9	17	15
817:	17	18	19	18	26	23	23	14
825:	14	13	19	18	14	17	38	60
833:	20	22	14	19	13	22	36	30
841:	17	17	24	18	17	21	25	16
849:	23	16	11	18	23	22	21	12
857:	17	16	16	24	23	18	18	16
865:	15	21	15	15	16	22	20	12
873:	22	17	16	14	19	15	20	18
881:	23	14	19	21	17	22	30	16
889:	17	10	18	22	20	17	7	12
897:	12	17	20	19	22	25	15	12
905:	25	17	16	15	17	32	33	35
913:	13	16	16	17	18	14	10	14
921:	10	15	14	14	11	13	17	8
929:	15	18	16	14	53	114	41	17
937:	20	13	13	11	20	5	16	21
945:	20	11	9	17	14	14	15	16
953:	14	14	11	21	12	11	14	11
961:	3	12	25	30	22	16	17	19
969:	28	12	15	7	11	16	16	10
977:	13	9	14	28	12	12	20	5
985:	10	14	11	18	13	11	15	13
993:	13	7	13	8	11	14	13	15
1001:	21	13	15	8	13	22	13	8
1009:	18	11	15	15	19	9	19	11
1017:	14	16	10	9	12	18	11	9
1025:	17	15	19	10	15	8	13	15
1033:	15	6	9	10	9	13	12	11
1041:	15	14	10	15	12	15	11	17
1049:	16	9	16	20	9	12	12	10
1057:	15	11	9	13	15	9	10	12
1065:	7	12	16	9	14	10	8	9
1073:	11	10	6	11	9	7	7	10
1081:	6	8	16	8	10	9	6	16
1089:	10	4	12	11	8	11	15	14
1097:	12	11	12	10	7	11	9	16
1105:	12	10	10	7	12	9	5	17
1113:	5	8	8	17	11	32	153	341
1121:	192	35	10	13	13	9	10	12
1129:	12	15	12	13	21	21	16	12
1137:	11	13	13	7	7	6	12	12
1145:	6	13	10	7	6	6	7	18
1153:	12	31	54	27	9	13	10	6
1161:	13	8	14	13	12	7	8	14
1169:	10	12	8	9	9	12	8	9
1177:	14	8	7	14	14	11	18	9
1185:	7	8	5	10	6	9	12	9
1193:	11	9	4	12	9	10	9	12
1201:	5	7	14	10	5	11	16	23
1209:	13	12	7	7	11	8	7	11
1217:	12	8	12	9	5	8	12	7
1225:	12	11	13	11	8	10	8	9

1233:	8	9	11	14	83	124	76	17

Sample Title: FEEBRISID-09-088-089

Channel								
1241:	8	13	11	8	6	12	13	13
1249:	9	7	8	15	10	15	13	10
1257:	10	9	13	8	9	8	9	6
1265:	7	10	6	10	7	10	11	7
1273:	11	15	5	4	6	6	11	25
1281:	31	19	11	9	5	12	9	5
1289:	5	9	12	11	10	11	4	9
1297:	5	4	3	7	7	13	10	9
1305:	4	8	2	9	5	14	12	12
1313:	10	14	8	7	9	14	11	7
1321:	9	8	5	11	11	7	7	3
1329:	14	11	10	16	4	9	7	9
1337:	9	10	13	6	8	4	16	12
1345:	11	5	6	6	7	7	9	6
1353:	4	4	10	11	9	14	5	7
1361:	6	4	6	7	8	8	4	9
1369:	9	3	7	7	8	9	9	43
1377:	92	64	29	11	7	10	6	11
1385:	25	19	6	10	6	7	12	5
1393:	7	8	4	11	8	4	12	11
1401:	35	19	13	3	11	16	47	46
1409:	25	11	7	6	5	6	9	6
1417:	8	9	11	7	5	10	8	6
1425:	9	7	6	10	9	9	8	9
1433:	12	11	6	7	3	8	1	7
1441:	11	8	6	8	8	4	4	7
1449:	9	9	3	10	6	9	3	6
1457:	5	6	27	49	64	21	9	5
1465:	9	4	3	8	6	3	4	8
1473:	9	11	8	3	6	8	4	8
1481:	15	5	13	11	10	8	8	7
1489:	6	6	12	8	6	9	13	12
1497:	8	14	7	10	10	5	8	7
1505:	6	8	14	28	55	23	8	10
1513:	12	7	7	9	5	11	7	5
1521:	15	7	14	9	8	7	10	7
1529:	5	8	6	11	9	11	5	8
1537:	9	10	20	12	12	9	22	14
1545:	7	5	6	7	6	4	9	7
1553:	3	3	9	8	7	2	2	7
1561:	6	6	7	5	3	5	11	7
1569:	13	6	5	7	7	6	5	4
1577:	3	4	3	5	5	10	19	11
1585:	11	4	8	8	5	5	2	7
1593:	6	5	12	5	6	13	15	10
1601:	1	6	2	7	3	7	6	7
1609:	9	4	7	3	2	7	3	7
1617:	2	9	4	5	4	6	7	3
1625:	6	3	5	3	3	9	9	2
1633:	2	5	3	1	2	3	1	2
1641:	5	4	5	2	4	2	2	7
1649:	5	6	5	3	6	5	4	2
1657:	1	5	5	6	20	13	4	3

1665:	3	3	4	3	0	1	6	0

Sample Title: FEEBRISID-09-088-089

Channel								
1673:	3	0	4	3	3	2	4	2
1681:	4	7	4	1	1	5	2	5
1689:	4	6	4	4	10	5	4	4
1697:	0	3	3	9	1	2	2	0
1705:	1	1	0	3	3	3	3	0
1713:	3	2	6	1	4	0	1	1
1721:	3	4	1	2	2	4	9	31
1729:	45	44	11	4	4	1	4	2
1737:	4	1	0	6	3	4	3	4
1745:	3	2	2	3	2	0	3	5
1753:	1	0	2	0	0	3	2	3
1761:	7	29	129	202	149	53	16	3
1769:	2	1	0	0	1	3	2	4
1777:	1	3	5	1	3	1	0	2
1785:	4	3	1	1	0	0	2	2
1793:	1	0	1	0	2	1	2	4
1801:	2	3	1	1	4	2	2	4
1809:	4	4	2	3	2	2	3	5
1817:	1	3	3	2	3	4	1	2
1825:	1	2	0	1	2	0	5	3
1833:	2	0	3	2	4	5	4	2
1841:	0	3	0	3	6	20	28	19
1849:	8	1	2	1	3	2	2	5
1857:	2	1	1	3	7	2	5	1
1865:	1	3	1	1	1	7	1	2
1873:	5	5	2	0	3	2	1	5
1881:	3	0	4	0	0	4	5	4
1889:	5	4	1	2	0	0	4	5
1897:	1	7	2	0	1	1	3	3
1905:	3	4	4	0	3	2	2	1
1913:	0	1	0	3	1	1	0	0
1921:	2	4	2	1	1	1	2	2
1929:	2	6	1	3	2	4	8	5
1937:	1	3	5	2	2	6	4	3
1945:	1	2	4	0	3	2	5	2
1953:	1	1	2	3	1	3	1	1
1961:	2	2	0	2	3	3	4	2
1969:	1	0	0	5	4	3	2	5
1977:	3	1	2	5	6	3	2	0
1985:	1	2	2	0	1	1	4	3
1993:	2	2	1	1	2	2	1	3
2001:	1	1	1	4	2	0	0	0
2009:	1	2	4	1	1	2	2	3
2017:	3	0	0	2	0	2	1	2
2025:	0	2	1	2	1	2	2	1
2033:	2	1	1	2	1	2	1	0
2041:	3	1	3	1	0	1	1	1
2049:	0	2	1	0	5	3	1	1
2057:	0	2	0	1	1	0	2	0
2065:	1	2	1	4	3	1	0	2
2073:	2	0	0	1	1	0	1	2
2081:	1	0	0	1	0	1	1	0
2089:	0	1	2	2	3	1	0	0

2097:	2	0	0	0	2	2	0	1

Sample Title: FEEBRISID-09-088-089

Channel								
2105:	2	1	3	0	1	3	5	1
2113:	1	1	3	4	7	14	6	7
2121:	1	0	2	1	1	1	2	2
2129:	1	0	2	0	0	2	1	0
2137:	1	2	2	1	0	0	3	0
2145:	2	3	1	3	1	2	1	0
2153:	0	3	0	1	1	1	1	2
2161:	3	0	0	0	2	1	2	3
2169:	0	1	3	2	0	0	1	0
2177:	0	0	0	0	0	3	0	3
2185:	1	1	0	1	3	2	3	2
2193:	2	1	0	0	2	1	2	5
2201:	1	23	41	45	28	8	1	0
2209:	1	2	0	1	0	0	1	1
2217:	0	0	1	0	1	1	0	1
2225:	1	0	1	2	1	0	1	0
2233:	0	0	1	3	0	0	1	1
2241:	2	0	1	0	1	1	0	2
2249:	0	2	4	1	3	1	1	0
2257:	1	1	1	2	0	0	0	0
2265:	2	2	1	0	1	0	1	2
2273:	0	2	1	0	1	1	0	1
2281:	3	1	1	0	0	0	0	2
2289:	2	1	3	2	1	2	0	0
2297:	0	0	1	1	0	0	1	2
2305:	0	0	1	2	2	4	1	0
2313:	1	1	0	1	1	0	0	0
2321:	0	0	0	2	1	0	0	0
2329:	0	0	0	1	2	0	1	2
2337:	1	0	0	2	2	0	0	0
2345:	0	1	0	0	2	0	0	1
2353:	0	0	0	0	0	2	1	0
2361:	0	0	1	0	0	0	2	0
2369:	0	1	1	0	1	0	1	0
2377:	1	0	0	0	2	0	0	1
2385:	1	0	0	0	1	1	0	0
2393:	1	1	0	0	0	0	2	0
2401:	0	0	0	1	0	1	0	1
2409:	0	0	1	0	0	0	1	0
2417:	0	0	0	0	1	0	1	0
2425:	1	1	0	1	2	0	1	0
2433:	0	0	1	1	1	0	0	0
2441:	1	3	0	1	2	9	13	7
2449:	5	0	1	0	0	0	0	0
2457:	1	0	1	1	0	0	0	0
2465:	1	1	0	0	0	0	0	0
2473:	0	0	0	0	1	0	1	0
2481:	3	0	2	0	1	0	0	0
2489:	1	0	0	1	0	0	0	1
2497:	0	0	0	2	1	0	0	0
2505:	1	0	0	1	0	0	0	0
2513:	0	1	0	1	0	0	1	0
2521:	0	0	0	0	0	0	0	0

2529:	0	1	0	0	0	0	1	0

Sample Title: FEEBRISID-09-088-089

Channel								
2537:	0	1	0	0	0	1	0	0
2545:	0	0	1	1	0	1	1	2
2553:	0	0	1	0	0	1	0	0
2561:	1	0	0	0	0	0	0	0
2569:	0	0	1	0	0	1	0	0
2577:	1	0	0	0	0	0	0	0
2585:	0	1	1	0	1	1	0	1
2593:	0	0	0	1	0	0	0	0
2601:	1	1	2	0	0	0	1	0
2609:	1	2	0	4	6	7	1	2
2617:	0	1	0	1	0	0	0	0
2625:	1	0	0	1	1	0	1	2
2633:	0	0	0	0	0	0	0	0
2641:	1	1	0	0	0	0	0	0
2649:	0	1	1	0	0	0	0	0
2657:	0	0	0	0	0	0	0	0
2665:	0	1	0	1	0	0	0	0
2673:	0	0	0	0	0	1	0	0
2681:	0	1	0	1	1	0	0	0
2689:	0	0	0	0	1	0	0	0
2697:	2	0	0	0	0	0	0	0
2705:	0	0	0	0	0	0	2	1
2713:	1	1	0	0	0	0	0	0
2721:	0	0	0	1	1	1	0	0
2729:	1	1	0	0	0	1	0	0
2737:	0	1	1	0	1	0	0	0
2745:	2	0	0	0	0	0	0	0
2753:	0	0	0	0	0	1	0	0
2761:	1	1	0	0	0	0	0	2
2769:	0	1	0	0	0	0	1	0
2777:	0	0	0	2	0	1	0	1
2785:	3	0	0	1	1	0	1	0
2793:	0	1	0	0	0	0	0	0
2801:	0	0	0	0	0	0	1	2
2809:	0	0	0	0	0	0	0	0
2817:	0	0	1	0	0	0	0	0
2825:	1	0	0	0	1	0	0	0
2833:	0	1	1	0	0	0	1	0
2841:	0	1	0	0	0	0	0	0
2849:	0	0	0	0	0	0	2	0
2857:	0	0	1	0	1	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	1	0	1	1	1	1
2889:	0	0	0	1	1	0	1	0
2897:	0	0	0	0	0	0	0	0
2905:	1	0	0	0	0	1	1	0
2913:	0	0	0	0	0	0	1	0
2921:	0	1	0	0	0	0	0	0
2929:	0	0	0	0	0	1	1	0
2937:	0	0	0	1	0	0	0	0
2945:	0	0	1	0	0	0	1	0
2953:	0	0	0	0	2	0	0	1

2961:	1	0	0	1	0	1	0	0

Sample Title: FEEBRISID-09-088-089

Channel								
2969:	0	0	0	0	0	0	1	1
2977:	1	0	0	0	0	0	1	0
2985:	0	0	0	0	0	1	0	0
2993:	0	1	0	1	0	1	0	1
3001:	0	1	0	0	0	0	0	0
3009:	0	0	0	1	0	0	0	1
3017:	0	0	0	1	0	0	1	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	2	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	1	1	0	0	1	0
3057:	0	0	0	0	1	1	0	0
3065:	0	1	1	1	0	0	1	0
3073:	0	0	0	0	0	0	0	0
3081:	1	0	0	0	1	0	0	0
3089:	0	0	0	0	0	1	0	0
3097:	0	0	0	1	0	0	0	0
3105:	0	0	0	0	0	0	0	1
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	1
3129:	1	0	0	1	1	1	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	1	0	0	0	0	0	0
3169:	0	0	1	0	0	0	0	0
3177:	0	0	0	1	0	0	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	1	0	0	0	0
3201:	0	0	0	0	0	0	0	1
3209:	0	0	1	0	0	0	1	1
3217:	0	0	1	0	0	0	0	0
3225:	0	0	0	0	0	0	1	0
3233:	2	0	0	0	0	0	0	1
3241:	0	0	1	0	0	0	0	0
3249:	0	0	0	2	0	0	0	0
3257:	0	0	0	0	0	0	1	0
3265:	0	0	1	1	0	0	0	1
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	1	0	0	1	0
3289:	0	0	0	0	1	0	0	0
3297:	0	1	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	1	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	1	0	0	0	0	1	0
3345:	0	0	0	1	0	0	0	0
3353:	0	0	1	1	0	0	0	0
3361:	2	0	0	0	0	0	0	0
3369:	0	1	0	0	0	0	0	0
3377:	1	0	0	0	0	0	1	0
3385:	0	0	0	0	0	0	0	0

3393:	0	2	0	0	0	0	1	0

Sample Title: FEEBRISID-09-088-089

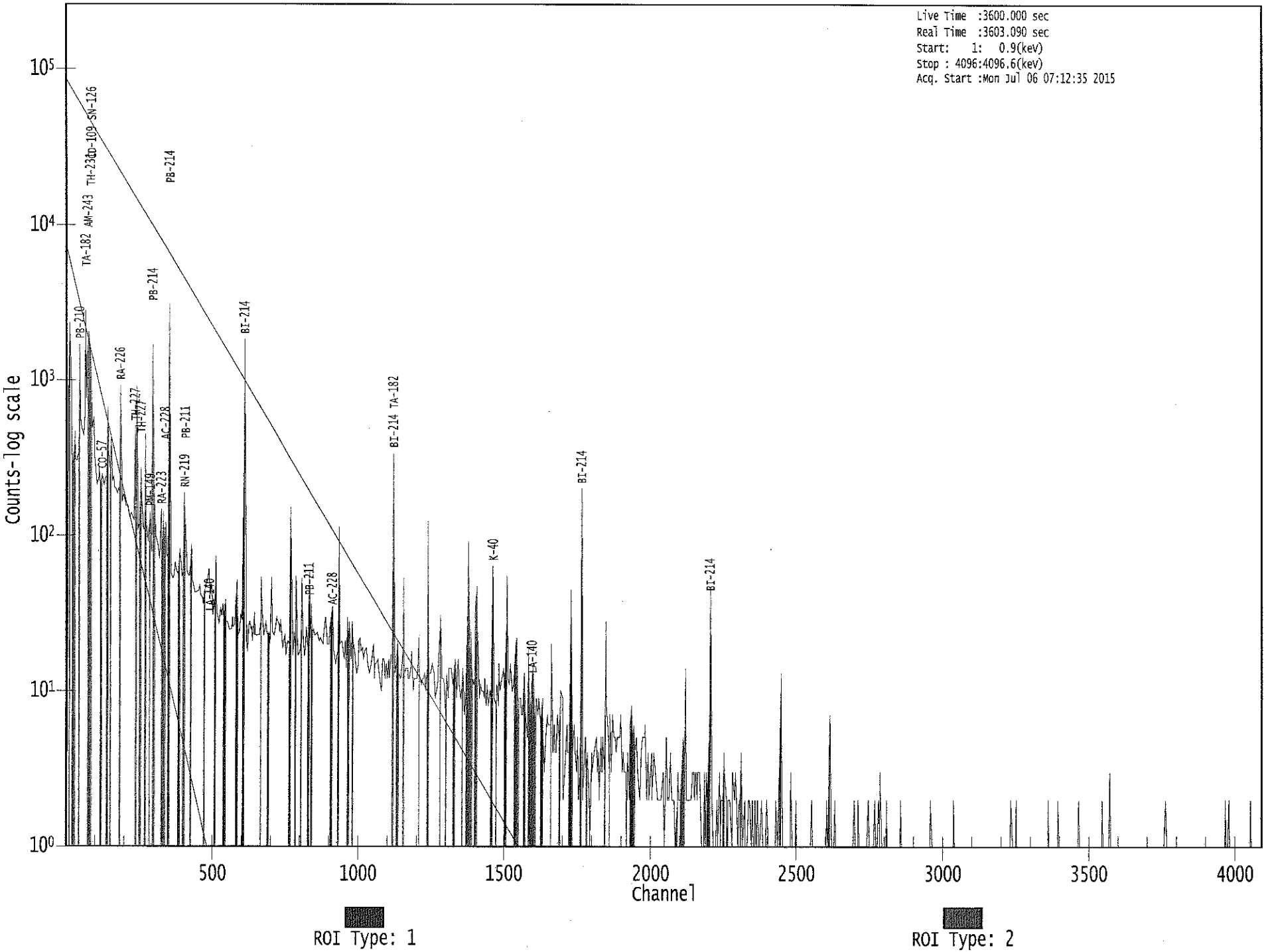
Channel								
3401:	0	0	1	0	0	0	0	0
3409:	0	1	0	0	1	0	1	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	1	0	0	0	0
3433:	1	0	0	0	0	0	0	0
3441:	0	1	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	1	0	1	0
3465:	2	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	1	0
3481:	0	0	0	0	0	0	0	0
3489:	1	0	0	0	0	0	0	0
3497:	0	0	0	0	1	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	0	0	0	1	0
3521:	0	0	0	0	0	0	0	0
3529:	0	1	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	1
3545:	2	0	0	1	0	0	0	0
3553:	0	1	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	1
3569:	0	0	3	0	0	0	0	0
3577:	0	0	0	0	0	0	1	0
3585:	1	1	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	1	1	0	0	1	0	0
3625:	0	0	0	0	1	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	1	1	0	0	0
3649:	0	1	0	0	0	0	0	0
3657:	0	0	0	1	0	0	1	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	1	0	0	0
3697:	0	1	1	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	1	0	0	0	0
3721:	0	0	0	0	0	0	1	0
3729:	0	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	1	0	1	1	0	0	0
3761:	0	2	0	0	0	0	1	0
3769:	1	0	0	0	0	0	0	0
3777:	0	0	1	0	1	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	1	0	1	1
3801:	0	0	1	0	0	0	0	0
3809:	1	0	0	0	0	0	1	0
3817:	0	0	0	0	0	0	0	1

3825:	0	0	0	0	1	0	1	0

Sample Title: FEEBRISID-09-088-089

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	1	0	0	0
3857:	0	0	0	0	0	0	1	0
3865:	0	0	0	0	1	0	0	0
3873:	1	0	1	0	0	0	0	0
3881:	0	1	0	0	0	0	0	1
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	1	0	0	0	0	0	0	0
3913:	0	0	0	1	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	1	1	0	0	1	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	1	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	1	0	2	0
3969:	0	0	0	0	0	0	1	0
3977:	1	0	2	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	1	0
4009:	0	0	0	0	0	0	1	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	1	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	2	0	0
4057:	0	0	0	0	0	0	0	0
4065:	1	0	0	0	1	1	0	0
4073:	0	1	0	1	0	0	0	1
4081:	0	0	0	0	1	0	0	0
4089:	0	0	1	0	0	0	0	1

0000023957.CNF



****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
6/30/15 6:01:36 AM

6/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 6/30/15 5:46:21 AM
Measurement Date: 6/30/15 5:46:23 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2	4.3644E+000	-7.7726E-001
[SD: 4.5848E+000+/- 0.284]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
6/30/15 6:01:28 AM

6/30

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 6/30/15 5:46:14 AM
Measurement Date: 6/30/15 5:46:16 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1 [SD: 2.1596E+000+/- 0.376]	2.2356E+000	2.0175E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
6/30/15 5:35:17 AM

6/30

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 6/30/15 5:19:33 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 930.0 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0200E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6170E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8355E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0446E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.8794E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.1791E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.2915E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4736E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.2322E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0439E+004	

Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.9742E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
6/30/15 5:35:27 AM

6/30

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 6/30/15 5:19:42 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 932.5 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6151E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.3843E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1573E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1420E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6674E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5362E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Decay corrected activity 6.2913E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.0404E+005	
Boundary Limits: [7.978E-002, 1.197E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1941E+005	
Boundary Limits: [1.714E-001, 2.571E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/6/15 5:39:31 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/6/15 5:23:43 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 932.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6149E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.4459E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1571E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1316E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.7092E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5399E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	6.3458E+004	
Boundary Limits: [4.971E-002, 7.457E-002]		< : : : >
Decay corrected activity	1.0517E+005	
Boundary Limits: [7.978E-002, 1.197E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1597E+005	
Boundary Limits: [1.714E-001, 2.571E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
- LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
- SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
- UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
- BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/6/15 6:03:22 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/6/15 5:48:06 AM
Measurement Date: 7/6/15 5:48:08 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2	4.3711E+000	-7.5318E-001
[SD: 4.5843E+000+/- 0.283]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043 Revised
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
		GAMMA QUICK COUNT												
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.42E+02	8.23E+00	1.10E+01	1.08E+00	8.50E-01	pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Cesium-137	LANL ER-130 Modified	9.38E+01	8.30E+00	9.60E+00	1.44E+00	7.15E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Actinium-228	LANL ER-130 Modified	4.84E-02	5.79E-02	5.80E-02	1.15E-01	5.06E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.45E-02	4.30E-02	4.30E-02	7.09E-02	3.24E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Lead-212	LANL ER-130 Modified	1.92E-02	3.92E-02	3.92E-02	5.54E-02	2.61E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Lead-214	LANL ER-130 Modified	3.56E-02	2.63E-02	2.63E-02	6.27E-02	2.88E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Radium-226	LANL ER-130 Modified	1.45E-02	4.30E-02	4.30E-02	7.09E-02	3.32E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Radium-228	LANL ER-130 Modified	4.84E-02	5.79E-02	5.80E-02	1.15E-01	5.06E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Thorium-234	LANL ER-130 Modified	2.73E-01	2.47E-01	2.48E-01	4.39E-01	2.05E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/17/2015	15-06043	Thallium-208	LANL ER-130 Modified	-1.38E-02	6.03E-02	6.03E-02	9.04E-02	4.07E-02	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Actinium-228	LANL ER-130 Modified	2.25E-01	4.37E-01	4.38E-01	6.81E-01	3.25E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.84E+01	1.12E+00	1.46E+00	5.63E-01	2.74E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-212	LANL ER-130 Modified	6.39E-01	2.67E-01	2.69E-01	6.95E-01	3.44E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-214	LANL ER-130 Modified	2.22E+01	1.35E+00	1.77E+00	6.75E-01	3.32E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-226	LANL ER-130 Modified	1.84E+01	1.12E+00	1.46E+00	5.63E-01	3.84E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-228	LANL ER-130 Modified	2.25E-01	4.37E-01	4.38E-01	6.81E-01	3.25E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thorium-234	LANL ER-130 Modified	1.29E+01	4.16E+00	4.21E+00	1.03E+01	5.10E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thallium-208	LANL ER-130 Modified	4.23E-01	1.62E-01	1.64E-01	2.23E-01	3.11E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Actinium-228	LANL ER-130 Modified	9.56E-01	4.93E-01	4.96E-01	9.04E-01	4.36E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.67E+01	1.17E+00	1.45E+00	5.63E-01	2.75E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-212	LANL ER-130 Modified	5.11E-01	2.69E-01	2.70E-01	7.59E-01	3.76E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Lead-214	LANL ER-130 Modified	2.21E+01	1.35E+00	1.76E+00	6.67E-01	3.28E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-226	LANL ER-130 Modified	1.67E+01	1.17E+00	1.45E+00	5.63E-01	3.66E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Radium-228	LANL ER-130 Modified	9.56E-01	4.93E-01	4.96E-01	9.04E-01	4.36E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thorium-234	LANL ER-130 Modified	1.61E+00	3.11E+00	3.11E+00	5.97E+00	2.95E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/17/2015	15-06043	Thallium-208	LANL ER-130 Modified	2.61E-01	1.40E-01	1.40E-01	1.76E-01	3.82E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043 Revised
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
		GAMMA 21 DAY INGROWTH												
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cobalt-60	LANL ER-130 Modified	1.42E+02	8.28E+00	1.10E+01	7.65E-01	5.43E-01	pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Cesium-137	LANL ER-130 Modified	9.23E+01	8.28E+00	9.54E+00	1.05E+00	5.20E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Actinium-228	LANL ER-130 Modified	2.04E-02	7.13E-02	7.13E-02	1.18E-01	5.20E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Bismuth-214	LANL ER-130 Modified	4.63E-02	4.99E-02	5.00E-02	8.45E-02	3.92E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Potassium-40	LANL ER-130 Modified	1.89E-01	2.33E-01	2.33E-01	3.88E-01	1.68E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Protactinium-231	LANL ER-130 Modified	-8.00E-02	6.54E-01	6.54E-01	8.49E-01	3.88E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Lead-210	LANL ER-130 Modified	1.13E+00	7.87E-01	7.89E-01	1.27E+00	6.13E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Lead-212	LANL ER-130 Modified	7.98E-03	4.10E-02	4.10E-02	5.39E-02	2.53E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Lead-214	LANL ER-130 Modified	3.94E-02	4.17E-02	4.17E-02	6.75E-02	3.12E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Radium-226	LANL ER-130 Modified	4.63E-02	4.99E-02	5.00E-02	8.45E-02	3.35E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Radium-228	LANL ER-130 Modified	2.04E-02	7.13E-02	7.13E-02	1.18E-01	5.20E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Thorium-234	LANL ER-130 Modified	3.39E-01	2.63E-01	2.64E-01	4.71E-01	2.21E-01	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/30/2015	15-06043	Thallium-208	LANL ER-130 Modified	6.95E-03	5.26E-02	5.26E-02	8.59E-02	3.85E-02	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Actinium-228	LANL ER-130 Modified	8.73E-01	4.80E-01	4.82E-01	8.89E-01	4.28E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.56E+01	1.13E+00	1.38E+00	4.84E-01	2.35E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Potassium-40	LANL ER-130 Modified	5.29E+00	1.66E+00	1.68E+00	2.21E+00	1.04E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Protactinium-231	LANL ER-130 Modified	-7.37E+00	6.25E+00	6.26E+00	7.09E+00	3.46E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-210	LANL ER-130 Modified	6.57E+01	9.51E+00	1.01E+01	1.30E+01	6.43E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-212	LANL ER-130 Modified	5.09E-01	1.94E-01	1.96E-01	6.96E-01	3.44E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-214	LANL ER-130 Modified	2.23E+01	1.52E+00	1.90E+00	5.83E-01	2.86E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-226	LANL ER-130 Modified	1.56E+01	1.13E+00	1.38E+00	4.84E-01	3.88E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-228	LANL ER-130 Modified	8.73E-01	4.80E-01	4.82E-01	8.89E-01	4.28E-01	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thorium-234	LANL ER-130 Modified	1.95E+00	3.03E+00	3.03E+00	4.56E+00	2.24E+00	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thallium-208	LANL ER-130 Modified	5.58E-01	1.83E-01	1.85E-01	1.84E-01	3.02E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043 Revised
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Actinium-228	LANL ER-130 Modified	8.14E-01	4.41E-01	4.43E-01	8.26E-01	3.96E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Bismuth-214	LANL ER-130 Modified	1.58E+01	1.13E+00	1.39E+00	2.95E-01	2.50E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Potassium-40	LANL ER-130 Modified	6.90E+00	1.76E+00	1.80E+00	2.12E+00	9.97E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Protactinium-231	LANL ER-130 Modified	-4.84E+00	6.10E+00	6.10E+00	7.26E+00	3.54E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-210	LANL ER-130 Modified	6.24E+01	1.06E+01	1.11E+01	1.12E+01	5.55E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-212	LANL ER-130 Modified	-7.90E+00	9.38E-01	1.02E+00	4.23E-01	2.08E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Lead-214	LANL ER-130 Modified	2.18E+01	1.49E+00	1.86E+00	6.12E-01	3.00E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-226	LANL ER-130 Modified	1.58E+01	1.13E+00	1.39E+00	2.95E-01	3.73E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Radium-228	LANL ER-130 Modified	8.14E-01	4.41E-01	4.43E-01	8.26E-01	3.96E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thorium-234	LANL ER-130 Modified	4.68E+00	3.10E+00	3.11E+00	4.72E+00	2.33E+00	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	7/6/2015	15-06043	Thallium-208	LANL ER-130 Modified	5.38E-01	3.55E-01	3.56E-01	3.92E-01	2.77E-01	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	1.02E+01	4.68E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	1.06E+01	1.24E+00	2.57E+00	1.64E-01	7.06E-03	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	8.60E-02	1.11E-01	1.12E-01	1.54E-01	6.91E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	3.87E+01	4.98E+00	9.58E+00	7.39E-01	2.82E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Radium-226	EPA 903.0 Modified	4.02E+01	5.17E+00	9.94E+00	1.05E+00	7.86E-02	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	8.34E+00	4.26E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	6.80E+00	8.33E-01	1.75E+00	1.18E+00	3.07E-05	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	7.46E-01	5.79E-01	6.03E-01	1.16E+00	2.63E-05	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	2.29E+00	2.13E+00	2.19E+00	4.30E+00	1.13E-04	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/18/2015	15-06043	Radium-228	EPA 904.0	3.58E+00	2.17E+00	2.31E+00	4.24E+00	1.17E-04	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Actinium-227	EML Th-01 Modified	4.96E-02	5.14E-02	5.17E-02	6.47E-02	8.62E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Actinium-227	EML Th-01 Modified	6.16E+00	1.43E+00	1.62E+00	2.03E-01	1.23E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Actinium-227	EML Th-01 Modified	7.24E+00	1.63E+00	1.86E+00	2.79E-01	3.71E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06043 Revised
Purchase Order: Phase 1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	5.34E+00	1.44E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	6.01E+00	1.04E+00	1.27E+00	9.42E-02	9.31E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	6.89E-02	5.96E-02	6.02E-02	6.71E-02	6.19E-02	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	9.00E+02	1.39E+02	1.78E+02	1.98E-01	2.30E-01	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-230	EML Th-01 Modified	9.06E+02	1.42E+02	1.81E+02	2.89E-01	2.67E-01	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	4.94E+00	1.78E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	5.09E+00	9.09E-01	1.01E+00	1.07E-01	1.71E-02	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	2.97E-02	3.86E-02	3.87E-02	5.35E-02	4.95E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	2.75E+00	8.30E-01	8.65E-01	2.83E-01	4.50E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Thorium-232	EML Th-01 Modified	3.76E+00	1.03E+00	1.08E+00	3.76E-01	1.03E-01	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	8.04E+00	2.90E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	7.41E+00	1.02E+00	1.15E+00	6.34E-02	5.81E-03	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	1.64E-01	1.02E-01	1.03E-01	7.37E-02	6.74E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	3.22E+00	8.75E-01	9.05E-01	2.46E-01	2.25E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-234	EML U-02 Modified	3.41E+00	9.58E-01	9.89E-01	2.42E-01	1.55E-02	pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	4.06E-01	1.67E-01	1.69E-01	6.83E-02	3.09E-03	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	1.11E-01	9.24E-02	9.27E-02	7.93E-02	3.58E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	1.16E-01	1.77E-01	1.78E-01	2.64E-01	1.19E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-235	EML U-02 Modified	6.19E-01	4.28E-01	4.30E-01	3.42E-01	2.33E-02	pCi/g
15-06043-01	LCS	KNOWN	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	7.84E+00	2.82E-01				pCi/g
15-06043-01	LCS	SPIKE	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	7.07E+00	9.81E-01	1.10E+00	7.92E-02	9.43E-04	pCi/g
15-06043-02	MBL	BLANK	06/12/15 00:00	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	0.00E+00	4.25E-02	4.25E-02	9.20E-02	1.09E-03	pCi/g
15-06043-03	DUP	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	2.84E+00	8.14E-01	8.39E-01	2.68E-01	2.97E-02	pCi/g
15-06043-04	DO	FEEBRISID-09-088-089	06/11/15 08:55	6/12/2015	6/16/2015	15-06043	Uranium-238	EML U-02 Modified	3.23E+00	9.33E-01	9.61E-01	3.46E-01	4.12E-03	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.08E+00	9.06E-01	1.13E-01	4.94E+00	102.83	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	8.17E-02	6.79E-02	8.22E-02					OK	OK
03	TH-228	DUP	FEEBRISID-09-088-089	pCi/g	3.56E-01	2.71E-01	2.50E-01				NA	INV	
04	TH-228	DO	FEEBRISID-09-088-089	pCi/g	1.10E-01	2.46E-01	4.65E-01					INV	

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	06/12/15 00:00	1.00E+00	85.10	0.00	0.00			
02	TH-228	MBL	06/12/15 00:00	1.00E+00	118.57	0.00	0.00			
03	TH-228	DUP	06/11/15 08:55	2.61E-01	116.63	0.00	0.00			
04	TH-228	DO	06/11/15 08:55	2.61E-01	118.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	06/16/15 08:33		A_Spec	Alpha_042	170	2.83 E+02	6.00 E-03	17.4
02	TH-228	MBL	06/16/15 08:33		A_Spec	Alpha_043	170	7.30 E+00	1.00 E-02	20
03	TH-228	DUP	06/16/15 08:33		A_Spec	Alpha_044	170	7.49 E+00	3.00 E-03	18.4
04	TH-228	DO	06/16/15 08:33		A_Spec	Alpha_046	170	2.26 E+00	2.20 E-02	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.01E+00	1.04E+00	9.42E-02	5.34E+00	112.40	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	6.89E-02	5.96E-02	6.71E-02					OK	OK
03	TH-230	DUP	FEEBRISID-09-088-089	pCi/g	9.00E+02	1.39E+02	1.98E-01				OK	OK	
04	TH-230	DO	FEEBRISID-09-088-089	pCi/g	9.06E+02	1.42E+02	2.89E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	06/12/15 00:00	1.00E+00	85.10	0.00	0.00			
02	TH-230	MBL	06/12/15 00:00	1.00E+00	118.57	0.00	0.00			
03	TH-230	DUP	06/11/15 08:55	2.61E-01	116.63	0.00	0.00			
04	TH-230	DO	06/11/15 08:55	2.61E-01	118.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	06/16/15 08:33		A_Spec	Alpha_042	170	3.34 E+02	3.00 E-03	17.4
02	TH-230	MBL	06/16/15 08:33		A_Spec	Alpha_043	170	6.15 E+00	5.00 E-03	20
03	TH-230	DUP	06/16/15 08:33		A_Spec	Alpha_044	170	1.90 E+04	1.00 E-03	18.4
04	TH-230	DO	06/16/15 08:33		A_Spec	Alpha_046	170	1.87 E+04	5.00 E-03	17.8

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	5.09E+00	9.09E-01	1.07E-01	4.94E+00	103.18	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	2.97E-02	3.86E-02	5.35E-02					OK	OK
03	TH-232	DUP	FEEBRISID-09-088-089	pCi/g	2.75E+00	8.30E-01	2.83E-01				INV	INV	
04	TH-232	DO	FEEBRISID-09-088-089	pCi/g	3.76E+00	1.03E+00	3.76E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	06/12/15 00:00	1.00E+00	85.10	0.00	0.00			
02	TH-232	MBL	06/12/15 00:00	1.00E+00	118.57	0.00	0.00			
03	TH-232	DUP	06/11/15 08:55	2.61E-01	116.63	0.00	0.00			
04	TH-232	DO	06/11/15 08:55	2.61E-01	118.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	06/16/15 08:33		A_Spec	Alpha_042	170	2.84 E+02	5.00 E-03	17.4
02	TH-232	MBL	06/16/15 08:33		A_Spec	Alpha_043	170	2.66 E+00	2.00 E-03	20
03	TH-232	DUP	06/16/15 08:33		A_Spec	Alpha_044	170	5.82 E+01	5.00 E-03	18.4
04	TH-232	DO	06/16/15 08:33		A_Spec	Alpha_046	170	7.80 E+01	1.20 E-02	17.8

Client: Auxier & Associates, Inc.

Eberline Services Work Order: 15-06043

Analysis Code: ThISO

Run: 1

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	4.96E-02	5.14E-02	6.47E-02					OK	OK
03	TH-227	DUP	FEEBRISID-09-088-089	pCi/g	6.16E+00	1.43E+00	2.03E-01				OK	INV	
04	TH-227	DO	FEEBRISID-09-088-089	pCi/g	7.24E+00	1.63E+00	2.79E-01					INV	

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Work Order: 15-06043-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
Auxier & Associates, Inc.	15-06043	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	06/12/15 00:00	1.00E+00	118.57	0.00	0.00			
03	TH-227	DUP	06/11/15 08:55	2.61E-01	116.63	0.00	0.00			
04	TH-227	DO	06/11/15 08:55	2.61E-01	118.28	0.00	0.00			

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Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-ThISO-1

Client: Auxier & Associates, Inc.
Eberline Services Work Order: 15-06043
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
02	TH-227	MBL	06/16/15 08:33		A_Spec	Alpha_043	170	4.32 E+00	4.00 E-03	20
03	TH-227	DUP	06/16/15 08:33		A_Spec	Alpha_044	170	1.27 E+02	1.00 E-03	18.4
04	TH-227	DO	06/16/15 08:33		A_Spec	Alpha_046	170	1.46 E+02	4.00 E-03	17.8

D6100

Preliminary Data Report & Analytical Calculations

Work Order: 15-06043-Gamma-2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.42E+02	8.28E+00	7.65E-01	1.37E+02	103.46	OK		06/12/15 00:00	1.00E+00	06/30/15 07:47	YES
01	CS-137	LCS	LCS	pCi/g	9.23E+01	8.28E+00	1.05E+00	8.69E+01	106.15	OK		06/12/15 00:00	1.00E+00	06/30/15 07:47	YES
02	AC-228	MBL	BLANK	pCi/g	2.04E-02	7.13E-02	1.18E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	BI-214	MBL	BLANK	pCi/g	4.63E-02	4.99E-02	8.45E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	K-40	MBL	BLANK	pCi/g	1.89E-01	2.33E-01	3.88E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	YES
02	PA-231	MBL	BLANK	pCi/g	-8.00E-02	6.54E-01	8.49E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	PB-210	MBL	BLANK	pCi/g	1.13E+00	7.87E-01	1.27E+00					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	PB-212	MBL	BLANK	pCi/g	7.98E-03	4.10E-02	5.39E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	PB-214	MBL	BLANK	pCi/g	3.94E-02	4.17E-02	6.75E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	RA-226	MBL	BLANK	pCi/g	4.63E-02	4.99E-02	8.45E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	RA-228	MBL	BLANK	pCi/g	2.04E-02	7.13E-02	1.18E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	TH-234	MBL	BLANK	pCi/g	3.39E-01	2.63E-01	4.71E-01					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
02	TL-208	MBL	BLANK	pCi/g	6.95E-03	5.26E-02	8.59E-02					06/12/15 00:00	1.00E+00	06/30/15 08:12	NO
03	AC-228	DUP	FEEBRISID-09-088-089	pCi/g	8.73E-01	4.80E-01	8.89E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	BI-214	DUP	FEEBRISID-09-088-089	pCi/g	1.56E+01	1.13E+00	4.84E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	K-40	DUP	FEEBRISID-09-088-089	pCi/g	5.29E+00	1.66E+00	2.21E+00				NA	06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	PA-231	DUP	FEEBRISID-09-088-089	pCi/g	-7.37E+00	6.25E+00	7.09E+00				NA	06/11/15 08:55	3.30E+02	07/06/15 06:09	NO
03	PB-210	DUP	FEEBRISID-09-088-089	pCi/g	6.57E+01	9.51E+00	1.30E+01				NA	06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	PB-212	DUP	FEEBRISID-09-088-089	pCi/g	5.09E-01	1.94E-01	6.96E-01				NA	06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	PB-214	DUP	FEEBRISID-09-088-089	pCi/g	2.23E+01	1.52E+00	5.83E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	RA-226	DUP	FEEBRISID-09-088-089	pCi/g	1.56E+01	1.13E+00	4.84E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	RA-228	DUP	FEEBRISID-09-088-089	pCi/g	8.73E-01	4.80E-01	8.89E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
03	TH-234	DUP	FEEBRISID-09-088-089	pCi/g	1.95E+00	3.03E+00	4.56E+00					06/11/15 08:55	3.30E+02	07/06/15 06:09	NO
03	TL-208	DUP	FEEBRISID-09-088-089	pCi/g	5.58E-01	1.83E-01	1.84E-01					06/11/15 08:55	3.30E+02	07/06/15 06:09	YES
04	AC-228	DO	FEEBRISID-09-088-089	pCi/g	8.14E-01	4.41E-01	8.26E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	BI-214	DO	FEEBRISID-09-088-089	pCi/g	1.58E+01	1.13E+00	2.95E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	K-40	DO	FEEBRISID-09-088-089	pCi/g	6.90E+00	1.76E+00	2.12E+00					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	PA-231	DO	FEEBRISID-09-088-089	pCi/g	-4.84E+00	6.10E+00	7.26E+00					06/11/15 08:55	3.30E+02	07/06/15 07:12	NO
04	PB-210	DO	FEEBRISID-09-088-089	pCi/g	6.24E+01	1.06E+01	1.12E+01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	PB-212	DO	FEEBRISID-09-088-089	pCi/g	-7.90E+00	9.38E-01	4.23E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	NO
04	PB-214	DO	FEEBRISID-09-088-089	pCi/g	2.18E+01	1.49E+00	6.12E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	RA-226	DO	FEEBRISID-09-088-089	pCi/g	1.58E+01	1.13E+00	2.95E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	RA-228	DO	FEEBRISID-09-088-089	pCi/g	8.14E-01	4.41E-01	8.26E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	YES
04	TH-234	DO	FEEBRISID-09-088-089	pCi/g	4.68E+00	3.10E+00	4.72E+00					06/11/15 08:55	3.30E+02	07/06/15 07:12	NO
04	TL-208	DO	FEEBRISID-09-088-089	pCi/g	5.38E-01	3.55E-01	3.92E-01					06/11/15 08:55	3.30E+02	07/06/15 07:12	NO

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-06114-OR

August 6, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 15-06114

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		6/29/15	KC	Sample Log-In
		7/23/15	JL	Data Compilation
		7-24-15	MLT	First Technical Data Review
		7/24/15	MSF	Second Technical Data Review
		08/05/15	EyT	Data Entry/Electronic Deliverable
		08/05/15	EyT	Case Narrative
		8/6/15	KBS	Electronic Deliverable Proof
		8/6/15	MSF	Samples Analyzed within Holding Time Yes? [X] No? [ ]
		8/6/15	MSF	QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: _____ 8/6/15

Laboratory Manager Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7119

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1 D	Project Number: ENG/BOR 1 D
Send Report To: C. GREEPE	Sampler (Print Name): JIM DRAKE
Address: 9821 COGDILL RD STE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 804349896386
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

Page 1 of 2 (1 OF 2)

15-06114

Purchase Order #: ENG BOR 1-D

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GAMMA SPEC	1SOTOPIC THORIUM	1SOTOPIC URANIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRISID-09,099-100	6/17/15	1314	S	1	X	X	X		
5	FEEBRISID-09,078-079	6/17/15	1300	S	1	X	X	X		
6	FEEBRISID-01,007-009	6/22/15	1007	S	1	X	X	X		
7	FEEBRISID-01,024-027	6/22/15	1015	S	1	X	X	X		
8	FEEBRISID-02,027-030	6/22/15	1104	S	1	X	X	X		
9	FEEBRISID-02.020-023	6/22/15	1120	S	1	X	X	X		
10	FEEBRISID-02.036-037	6/22/15	1130	S	1	X	X	X		
11	FEEBRISID-18,013-014	6/22/15	1247	S	1	X	X	X		
12	FEEBRISID-18.038-041	6/22/15	1256	S	1	X	X	X	REC'D JUN 29 2015	
13	FEEBRISID-18,044-046	6/22/15	1304	S	1	X	X	X		
14	FEEBRISID-17,030-031	6/22/15	1456	S	1	X	X	X		
15	FEEBRISID-17.033-036	6/22/15	1503	S	1	X	X	X		
16	FEEBRISID-13,093-094	6/12/15	1415	S	1	X	X	X		
17	FEEBRISID-13,085-086	6/12/15	1432	S	1	X	X	X		
18	FEEBRISID-14.082-084	6/12/15	1451	S	1	X	X	X		
19	FEEBRISID-14.054-056	6/12/15	1458	S	1	X	X	X		
20	FEEBRISID-09,088-089	6/11/15	0858	S	1	X	X	X		

Relinquished by: (Signature) Jim Drake	Received by: (Signature) Kristen Carlstein	Date: 6/29/15	Time: 1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround	Sample Receipt	
Level I ☐	Routine ☒	Total # Containers Received?	
Level II ☐	24 Hour ☐	COC Seals Present?	
Level III ☐	1 Week ☐	COC Seals Intact?	
Other ☐	Other _____	Received Containers Intact?	
		Temperature?	

CCD 062315

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06114
Lab Deadline	7/21/2015
Analysis	UUISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	47	D1.1
05	54	D1.1
06	53	D1.1
07	44	D1.1
08	63	D1.1
09	66	D1.1
10	63	D1.1
11	48	D1.1
12	37	D1.1
13	61	D1.1
14	48	D1.1
15	65	D1.1
16	61	D1.1
17	60	D1.1
18	49	D1.1
19	40	D1.1
20	78	D1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0800	Kenj Scj	6-30-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0200	Kenj Scj	7-6-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/6/15 0840	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/7/15 0840	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7-7-15 0840	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7/8/15 0802	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 7/9/15 1102	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06114
Lab Deadline	7/21/2015
Analysis	ThISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	47	D1.1
05	54	D1.1
06	53	D1.1
07	44	D1.1
08	63	D1.1
09	66	D1.1
10	63	D1.1
11	48	D1.1
12	37	D1.1
13	61	D1.1
14	48	D1.1
15	65	D1.1
16	61	D1.1
17	60	D1.1
18	49	D1.1
19	40	D1.1
20	78	D1.1

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room 0800	Kenseri	6-30-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 0700	Kenseri	7-6-15
Received by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JWolfe 7/6/15 0710	
Relinquished by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JWolfe 7/7/15 0915	
Received by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 7-7-15 0915	
Relinquished by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 7-8-15 0829	
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	[illegible] 0829	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KB 7/8/15 1508	
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06114
Lab Deadline	7/21/2015
Analysis	Gamma - Level 4
Sample Matrix	Soil/Solid

Comments

21 day ingrowth: Report Ac228, Bi214, Pb212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	47	D1.1
05	54	D1.1
06	53	D1.1
07	44	D1.1
08	63	D1.1
09	66	D1.1
10	63	D1.1
11	48	D1.1
12	37	D1.1
13	61	D1.1
14	48	D1.1
15	65	D1.1
16	61	D1.1
17	60	D1.1
18	49	D1.1
19	40	D1.1
20	78	D1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0800	Key sig	6-30-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0955	Key sig	7-1-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0955	7/17/15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 7/22/15	1550
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	06/29/2015	28	15-06114
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	ENG/BOR-1D	H	07/21/2015	07/24/2015	07/27/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																					Ttl
01	LCS	06/29/15	SO	D1.1	X	X	X																					3
02	BLANK	06/29/15	SO	D1.1	X	X	X																					3
03	DUP	06/29/15	SO	D1.1	X	X	X																					3
04	FEEBRIS1D-09.099-100	06/17/15 13:14	SO	D1.1	X	X	X																					3
05	FEEBRIS1D-09.078-079	06/17/15 13:00	SO	D1.1	X	X	X																					3
06	FEEBRIS1D-01.007-009	06/22/15 10:07	SO	D1.1	X	X	X																					3
07	FEEBRIS1D-01.024-027	06/22/15 10:15	SO	D1.1	X	X	X																					3
08	FEEBRIS1D-02.027-030	06/22/15 11:04	SO	D1.1	X	X	X																					3
09	FEEBRIS1D-02.020-023	06/22/15 11:20	SO	D1.1	X	X	X																					3
10	FEEBRIS1D-02.036-037	06/22/15 11:30	SO	D1.1	X	X	X																					3
11	FEEBRIS1D-18.013-014	06/22/15 12:47	SO	D1.1	X	X	X																					3
12	FEEBRIS1D-18.038-041	06/22/15 12:56	SO	D1.1	X	X	X																					3
13	FEEBRIS1D-18.044-046	06/22/15 13:04	SO	D1.1	X	X	X																					3
14	FEEBRIS1D-17.030-031	06/22/15 14:56	SO	D1.1	X	X	X																					3
15	FEEBRIS1D-17.033-036	06/22/15 15:03	SO	D1.1	X	X	X																					3
16	FEEBRIS1D-13.093-094	06/12/15 14:15	SO	D1.1	X	X	X																					3
17	FEEBRIS1D-13.085-086	06/12/15 14:32	SO	D1.1	X	X	X																					3
18	FEEBRIS1D-14.082-084	06/12/15 14:51	SO	D1.1	X	X	X																					3
19	FEEBRIS1D-14.054-056	06/12/15 14:58	SO	D1.1	X	X	X																					3
20	FEEBRIS1D-09.088-089	06/11/15 08:55	SO	D1.1	X	X	X																					3
		Totals Per Analysis (non QA samples)			17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		Report Data		
	Westlake LF OU-1 Resp		Cecilia Greene	Marsha Joseph
	AMO Environmental Decisions		Auxier & Associates, Inc.	Auxier, Inc.
	PO Box 410		9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Danboro, PA 18916		Knoxville, TN 37932	Knoxville, TN 37932
Voice	215-230-8282	*Voice*	865-675-0379	865-675-3669
Fax	215-230-8283	*Fax*	865-675-3677	865-675-3677
Contact	Marsha Joseph			
Voice	865-675-3669			
Fax	865-675-3677			

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Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-06114

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS (NON-AQUEOUS)

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kristen Coulston DATE: 6/29/15

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39470

August 6, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-06114-OR

SAMPLE RECEIPT

This work order contains seventeen soil samples received 06/29/2015. These samples were analyzed for Isotopic Uranium, Isotopic Thorium and by Gamma Spectroscopy.

CLIENT ID	LAB ID	CLIENT ID	LAB ID
FEEBRIS1D-09.099-100	15-06114-04	FEEBRIS1D-18.044-046	15-06114-13
FEEBRIS1D-09.078-079	15-06114-05	FEEBRIS1D-17.030-031	15-06114-14
FEEBRIS1D-01.007-009	15-06114-06	FEEBRIS1D-17.033-036	15-06114-15
FEEBRIS1D-01.024-027	15-06114-07	FEEBRIS1D-13.093-094	15-06114-16
FEEBRIS1D-02.027-030	15-06114-08	FEEBRIS1D-13.085-086	15-06114-17
FEEBRIS1D-02.020-023	15-06114-09	FEEBRIS1D-14.082-084	15-06114-18
FEEBRIS1D-02.036-037	15-06114-10	FEEBRIS1D-14.054-056	15-06114-19
FEEBRIS1D-18.013-014	15-06114-11	FEEBRIS1D-09.088-089	15-06114-20
FEEBRIS1D-18.038-041	15-06114-12		

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

00013

ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Uranium analyses. Chemical recovery was acceptable for all samples. The Uranium-234, Uranium-235 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-234 and Uranium-238 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Uranium-235 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-227, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Thorium analyses. Actinium-227 was reported from Thorium-227. Chemical recovery was acceptable for all samples. The Thorium-227, Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-230 and Thorium-232 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

Samples were dried, homogenized and placed into appropriate gamma spectroscopy geometry containers. Samples were then sealed for 21 days to allow for ingrowth of Radon-222 and progeny. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors. Energy lines from Lead-214 and Bismuth-214 were analyzed for determinations of Radium-226 activity.

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Potassium-40 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Protactinium-231 and Lead-210 replicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 8/6/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06114
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-01	LCS	KNOWN	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-06114-01	LCS	KNOWN	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-06114-01	LCS	SPIKE	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Cobalt-60	LANL ER-130 Modified	1.38E+02	8.90E+00	1.14E+01	6.95E-01	5.85E-01	pCi/g
15-06114-01	LCS	SPIKE	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Cesium-137	LANL ER-130 Modified	8.79E+01	7.48E+00	8.73E+00	1.04E+00	5.18E-01	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Actinium-228	LANL ER-130 Modified	5.48E-03	8.71E-02	8.71E-02	1.39E-01	5.98E-02	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.56E-02	4.68E-02	4.68E-02	7.96E-02	3.57E-02	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.91E-01	1.42E-01	1.43E-01	4.10E-01	1.68E-01	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-5.19E-02	6.91E-01	6.91E-01	1.05E+00	4.82E-01	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Lead-210	LANL ER-130 Modified	4.68E-01	5.80E-01	5.80E-01	8.31E-01	3.95E-01	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Lead-212	LANL ER-130 Modified	2.97E-02	3.81E-02	3.81E-02	6.33E-02	2.97E-02	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Lead-214	LANL ER-130 Modified	6.13E-03	4.61E-02	4.61E-02	7.31E-02	3.34E-02	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Radium-226	LANL ER-130 Modified	1.56E-02	4.68E-02	4.68E-02	7.96E-02	3.13E-01	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Radium-228	LANL ER-130 Modified	5.48E-03	8.71E-02	8.71E-02	1.39E-01	5.98E-02	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Thorium-234	LANL ER-130 Modified	9.21E-01	3.87E-01	3.90E-01	6.56E-01	3.12E-01	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/21/2015	15-06114	Thallium-208	LANL ER-130 Modified	2.92E-02	4.55E-02	4.56E-02	9.21E-02	4.00E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	4.76E-01	1.31E-01	1.34E-01	2.88E-01	1.37E-01	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	4.78E-01	9.37E-02	9.69E-02	1.51E-01	7.23E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.48E+01	1.67E+00	1.84E+00	6.47E-01	2.98E-01	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-3.62E-01	9.13E-01	9.13E-01	1.45E+00	6.90E-01	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	1.29E+00	1.36E+00	1.36E+00	2.26E+00	1.11E+00	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	4.06E-01	7.08E-02	7.38E-02	1.39E-01	6.80E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	6.35E-01	9.46E-02	1.00E-01	1.22E-01	5.87E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	4.78E-01	9.37E-02	9.69E-02	1.51E-01	1.25E+00	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	4.76E-01	1.31E-01	1.34E-01	2.88E-01	1.37E-01	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.27E+00	9.16E-01	9.18E-01	1.26E+00	6.15E-01	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	3.72E-01	8.25E-02	8.47E-02	7.12E-02	8.33E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06114
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	4.25E-01	1.15E-01	1.17E-01	3.68E-01	2.06E-01	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	6.63E-01	9.33E-02	9.93E-02	1.66E-01	8.01E-02	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.54E+01	1.73E+00	1.91E+00	7.27E-01	3.38E-01	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	4.24E-01	8.97E-01	8.97E-01	1.52E+00	7.23E-01	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	9.58E-01	1.01E+00	1.01E+00	1.38E+00	6.70E-01	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	4.43E-01	7.53E-02	7.87E-02	1.43E-01	7.01E-02	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	7.23E-01	1.03E-01	1.09E-01	1.44E-01	6.94E-02	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	6.63E-01	9.33E-02	9.93E-02	1.66E-01	5.98E-01	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	4.25E-01	1.15E-01	1.17E-01	3.68E-01	2.06E-01	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.02E+00	9.51E-01	9.53E-01	1.27E+00	6.21E-01	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	3.25E-01	7.69E-02	7.87E-02	1.32E-01	8.65E-02	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	1.65E-01	4.36E-01	4.36E-01	7.44E-01	3.35E-01	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	2.06E-01	2.53E-01	2.53E-01	4.29E-01	1.98E-01	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.20E+00	1.25E+00	1.25E+00	2.02E+00	8.70E-01	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-1.89E+00	3.48E+00	3.48E+00	3.97E+00	1.79E+00	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	9.01E+00	7.38E+00	7.40E+00	1.21E+01	5.95E+00	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	5.49E-01	2.80E-01	2.82E-01	4.37E-01	2.10E-01	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.93E-01	2.85E-01	2.85E-01	4.22E-01	1.97E-01	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	2.06E-01	2.53E-01	2.53E-01	4.29E-01	2.37E+00	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	1.65E-01	4.36E-01	4.36E-01	7.44E-01	3.35E-01	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	2.10E+00	1.48E+00	1.48E+00	2.67E+00	1.26E+00	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	1.93E-01	2.86E-01	2.87E-01	5.47E-01	2.49E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	9.53E-01	2.23E-01	2.28E-01	5.75E-01	2.74E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.08E+00	1.93E-01	2.01E-01	2.83E-01	1.36E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.33E+01	1.86E+00	1.98E+00	1.15E+00	5.24E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	2.04E+00	1.90E+00	1.90E+00	2.97E+00	1.42E+00	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	1.77E+00	1.50E+00	1.50E+00	2.48E+00	1.21E+00	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	9.61E-01	1.35E-01	1.44E-01	2.47E-01	1.21E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.18E+00	1.70E-01	1.80E-01	2.70E-01	1.31E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.08E+00	1.93E-01	2.01E-01	2.83E-01	1.66E+00	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	9.53E-01	2.23E-01	2.28E-01	5.75E-01	2.74E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.05E+00	1.18E+00	1.18E+00	1.98E+00	9.67E-01	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	7.24E-01	1.46E-01	1.51E-01	1.41E-01	2.41E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	4.70E-01	3.21E-01	3.22E-01	6.19E-01	2.81E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.11E+00	2.69E-01	2.75E-01	4.38E-01	2.08E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	3.57E+00	1.39E+00	1.40E+00	1.56E+00	6.69E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	7.63E-01	2.39E+00	2.39E+00	4.18E+00	1.97E+00	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	1.30E+00	9.91E-01	9.94E-01	1.64E+00	8.00E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	1.97E-01	2.04E-01	2.04E-01	3.39E-01	1.65E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	7.85E-01	2.42E-01	2.46E-01	4.14E-01	1.99E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.11E+00	2.69E-01	2.75E-01	4.38E-01	1.56E+00	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	4.70E-01	3.21E-01	3.22E-01	6.19E-01	2.81E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.23E+00	1.18E+00	1.18E+00	1.96E+00	9.56E-01	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	1.70E-01	2.38E-01	2.38E-01	4.18E-01	1.94E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	1.05E+00	3.41E-01	3.45E-01	5.84E-01	2.73E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.14E+00	2.21E-01	2.29E-01	3.35E-01	1.59E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.23E+01	2.14E+00	2.23E+00	1.35E+00	6.03E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-1.14E+00	2.77E+00	2.77E+00	3.31E+00	1.55E+00	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	4.09E+00	2.59E+00	2.60E+00	4.13E+00	2.00E+00	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	8.99E-01	1.64E-01	1.71E-01	3.54E-01	1.73E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.17E+00	1.86E-01	1.96E-01	2.63E-01	1.25E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.14E+00	2.21E-01	2.29E-01	3.35E-01	1.51E+00	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	1.05E+00	3.41E-01	3.45E-01	5.84E-01	2.73E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.86E+00	1.16E+00	1.16E+00	1.98E+00	9.49E-01	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	6.49E-01	1.87E-01	1.90E-01	2.95E-01	1.80E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	1.12E+00	2.90E-01	2.95E-01	5.40E-01	2.56E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.26E+00	1.66E-01	1.79E-01	2.99E-01	1.79E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.60E+01	2.07E+00	2.23E+00	1.39E+00	6.45E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-1.86E+00	1.59E+00	1.60E+00	3.03E+00	1.45E+00	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	2.77E+00	1.61E+00	1.62E+00	2.26E+00	1.10E+00	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	1.26E+00	1.63E-01	1.75E-01	2.94E-01	1.44E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.20E+00	1.89E-01	1.99E-01	2.77E-01	1.34E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.26E+00	1.66E-01	1.79E-01	2.99E-01	1.24E+00	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	1.12E+00	2.90E-01	2.95E-01	5.40E-01	2.56E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	3.03E-01	1.52E+00	1.52E+00	1.94E+00	9.48E-01	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	1.08E+00	1.82E-01	1.90E-01	4.56E-02	2.01E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06114
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	8.52E-01	4.52E-01	4.54E-01	8.56E-01	4.03E-01	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.01E+00	2.94E-01	2.98E-01	4.54E-01	2.17E-01	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.74E+01	3.22E+00	3.34E+00	2.41E+00	1.11E+00	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-2.80E-01	3.07E+00	3.07E+00	5.17E+00	2.48E+00	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	5.21E-02	9.05E-01	9.05E-01	1.38E+00	6.75E-01	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	1.29E+00	2.91E-01	2.98E-01	3.90E-01	1.91E-01	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.22E+00	2.72E-01	2.79E-01	4.31E-01	2.08E-01	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.01E+00	2.94E-01	2.98E-01	4.54E-01	1.66E+00	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	8.52E-01	4.52E-01	4.54E-01	8.56E-01	4.03E-01	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.47E+00	1.30E+00	1.31E+00	2.05E+00	1.01E+00	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	1.38E+00	4.39E-01	4.45E-01	6.16E-01	2.93E-01	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	3.08E-01	1.54E-01	1.55E-01	2.66E-01	1.18E-01	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	7.60E-01	1.56E-01	1.61E-01	1.97E-01	9.19E-02	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	4.69E+00	1.20E+00	1.22E+00	1.35E+00	6.20E-01	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	1.10E+00	1.32E+00	1.32E+00	2.38E+00	1.11E+00	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	5.44E-01	1.60E+00	1.60E+00	2.16E+00	1.04E+00	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	4.06E-01	9.74E-02	9.96E-02	2.33E-01	1.13E-01	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	8.56E-01	1.56E-01	1.63E-01	2.25E-01	1.07E-01	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	7.60E-01	1.56E-01	1.61E-01	1.97E-01	1.24E+00	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	3.08E-01	1.54E-01	1.55E-01	2.66E-01	1.18E-01	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.76E+00	1.35E+00	1.35E+00	1.89E+00	9.12E-01	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	4.61E-01	1.55E-01	1.57E-01	3.20E-01	1.51E-01	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	2.63E-01	3.50E-01	3.50E-01	6.35E-01	2.86E-01	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	5.23E-01	2.01E-01	2.03E-01	5.26E-01	2.50E-01	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.93E+00	1.10E+00	1.10E+00	1.45E+00	6.12E-01	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	4.14E-01	2.82E+00	2.82E+00	3.97E+00	1.82E+00	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	6.93E+00	6.28E+00	6.29E+00	1.04E+01	5.08E+00	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	-6.57E-02	2.18E-01	2.18E-01	2.66E-01	1.26E-01	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	5.91E-01	2.37E-01	2.39E-01	3.98E-01	1.87E-01	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	5.23E-01	2.01E-01	2.03E-01	5.26E-01	1.58E+00	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	2.63E-01	3.50E-01	3.50E-01	6.35E-01	2.86E-01	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.62E+00	1.38E+00	1.38E+00	2.41E+00	1.14E+00	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	7.36E-02	2.84E-01	2.84E-01	4.63E-01	2.12E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06114
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	1.40E+00	2.65E-01	2.74E-01	5.17E-01	2.45E-01	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.34E+00	1.94E-01	2.06E-01	2.24E-01	1.06E-01	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	2.17E+01	2.64E+00	2.86E+00	1.41E+00	6.54E-01	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	7.17E-02	7.88E-01	7.88E-01	3.25E+00	1.56E+00	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	2.50E+00	1.64E+00	1.65E+00	2.28E+00	1.11E+00	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	1.34E+00	1.65E-01	1.79E-01	3.30E-01	1.62E-01	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.36E+00	1.87E-01	1.99E-01	2.91E-01	1.41E-01	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.34E+00	1.94E-01	2.06E-01	2.24E-01	1.33E+00	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	1.40E+00	2.65E-01	2.74E-01	5.17E-01	2.45E-01	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.64E+00	1.54E+00	1.54E+00	2.57E+00	1.26E+00	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	9.88E-01	1.97E-01	2.03E-01	2.51E-01	1.73E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	3.91E-01	4.05E-01	4.06E-01	7.53E-01	3.46E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	3.81E-01	2.06E-01	2.07E-01	3.95E-01	1.85E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.34E+01	2.79E+00	2.87E+00	1.82E+00	7.88E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-3.89E-01	2.21E+00	2.21E+00	4.27E+00	2.01E+00	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	7.31E-01	7.58E-01	7.59E-01	1.26E+00	6.12E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	4.10E-01	1.99E-01	2.00E-01	3.09E-01	1.49E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	4.90E-01	2.05E-01	2.06E-01	3.40E-01	1.61E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	3.81E-01	2.06E-01	2.07E-01	3.95E-01	1.46E+00	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	3.91E-01	4.05E-01	4.06E-01	7.53E-01	3.46E-01	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.85E+00	1.51E+00	1.51E+00	2.50E+00	1.23E+00	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	3.85E-01	2.08E-01	2.09E-01	2.41E-01	2.45E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	4.07E-01	3.61E-01	3.62E-01	6.96E-01	3.18E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	7.49E-01	2.56E-01	2.58E-01	1.89E-01	1.95E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.45E+01	2.83E+00	2.93E+00	1.34E+00	5.53E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-1.19E+00	3.11E+00	3.11E+00	4.64E+00	2.20E+00	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	1.20E+00	1.21E+00	1.22E+00	2.03E+00	9.94E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	5.44E-01	1.88E-01	1.90E-01	3.25E-01	1.57E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	6.61E-01	2.56E-01	2.58E-01	3.66E-01	1.74E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	7.49E-01	2.56E-01	2.58E-01	1.89E-01	1.54E+00	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	4.07E-01	3.61E-01	3.62E-01	6.96E-01	3.18E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	2.24E+00	1.15E+00	1.16E+00	1.90E+00	9.24E-01	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	4.46E-01	3.16E-01	3.17E-01	5.77E-01	2.71E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	4.28E-01	1.52E-01	1.54E-01	4.10E-01	1.97E-01	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	4.22E+00	2.96E-01	3.67E-01	2.76E-01	1.35E-01	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	4.40E+00	9.87E-01	1.01E+00	1.12E+00	5.32E-01	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-1.36E-01	1.73E+00	1.73E+00	2.25E+00	1.08E+00	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	4.10E+00	2.22E+00	2.23E+00	3.57E+00	1.76E+00	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	2.20E-01	8.25E-02	8.33E-02	1.70E-01	8.32E-02	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	4.34E+00	3.42E-01	4.08E-01	2.08E-01	1.01E-01	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	4.22E+00	2.96E-01	3.67E-01	2.76E-01	1.48E+00	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	4.28E-01	1.52E-01	1.54E-01	4.10E-01	1.97E-01	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.57E+00	1.70E+00	1.70E+00	2.84E+00	1.40E+00	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	2.71E-01	9.10E-02	9.21E-02	1.35E-01	1.38E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	1.11E+00	2.43E-01	2.50E-01	5.23E-01	2.49E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.17E+00	1.82E-01	1.91E-01	2.83E-01	1.36E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.85E+01	2.22E+00	2.42E+00	1.56E+00	7.32E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	5.86E-02	7.57E-01	7.57E-01	2.89E+00	1.39E+00	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	7.68E-01	1.54E+00	1.54E+00	2.03E+00	9.87E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	1.27E+00	1.51E-01	1.64E-01	3.13E-01	1.54E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.20E+00	1.84E-01	1.94E-01	2.94E-01	1.43E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.17E+00	1.82E-01	1.91E-01	2.83E-01	1.56E+00	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	1.11E+00	2.43E-01	2.50E-01	5.23E-01	2.49E-01	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.74E+00	1.73E+00	1.73E+00	2.88E+00	1.42E+00	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	1.07E+00	1.82E-01	1.90E-01	2.03E-01	1.43E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	8.66E-01	3.13E-01	3.16E-01	1.03E+00	4.91E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.31E+00	2.58E-01	2.67E-01	1.41E-01	1.80E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	1.43E+01	2.74E+00	2.84E+00	2.11E+00	9.66E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	-1.24E-01	1.83E+00	1.83E+00	4.65E+00	2.23E+00	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	4.13E-01	7.93E-01	7.93E-01	1.23E+00	6.00E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	1.28E+00	2.88E-01	2.95E-01	3.89E-01	1.90E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.46E+00	2.78E-01	2.88E-01	3.90E-01	1.89E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.31E+00	2.58E-01	2.67E-01	1.41E-01	1.52E+00	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	8.66E-01	3.13E-01	3.16E-01	1.03E+00	4.91E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	1.96E+00	1.20E+00	1.20E+00	1.90E+00	9.34E-01	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	9.32E-01	4.46E-01	4.49E-01	6.84E-01	3.29E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	1.43E-01	5.13E-01	5.13E-01	8.49E-01	3.84E-01	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	4.03E-01	2.96E-01	2.97E-01	5.35E-01	2.50E-01	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	2.17E+00	1.22E+00	1.23E+00	1.50E+00	5.96E-01	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	2.09E+00	3.73E+00	3.73E+00	5.62E+00	2.59E+00	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	8.73E+00	4.79E+00	4.82E+00	7.90E+00	3.82E+00	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	2.15E-01	1.66E-01	1.67E-01	4.42E-01	2.12E-01	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	4.33E-01	2.94E-01	2.95E-01	5.69E-01	2.70E-01	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	4.03E-01	2.96E-01	2.97E-01	5.35E-01	2.37E+00	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	1.43E-01	5.13E-01	5.13E-01	8.49E-01	3.84E-01	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	2.57E+00	1.62E+00	1.62E+00	2.97E+00	1.40E+00	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	3.47E-01	2.35E-01	2.36E-01	4.42E-01	2.94E-01	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Actinium-228	LANL ER-130 Modified	1.10E+00	4.96E-01	4.99E-01	1.03E+00	4.93E-01	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Bismuth-214	LANL ER-130 Modified	1.70E+01	1.14E+00	1.43E+00	4.99E-01	3.42E-01	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Potassium-40	LANL ER-130 Modified	6.57E+00	2.36E+00	2.38E+00	3.37E+00	1.60E+00	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Protactinium-231	LANL ER-130 Modified	1.39E+01	6.06E+00	6.10E+00	9.50E+00	4.64E+00	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Lead-210	LANL ER-130 Modified	3.02E+01	7.09E+00	7.26E+00	1.03E+01	5.08E+00	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Lead-212	LANL ER-130 Modified	7.28E-01	3.34E-01	3.36E-01	8.67E-01	4.29E-01	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Lead-214	LANL ER-130 Modified	1.86E+01	1.19E+00	1.52E+00	8.20E-01	4.02E-01	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Radium-226	LANL ER-130 Modified	1.70E+01	1.14E+00	1.43E+00	4.99E-01	4.59E+00	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Radium-228	LANL ER-130 Modified	1.10E+00	4.96E-01	4.99E-01	1.03E+00	4.93E-01	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Thorium-234	LANL ER-130 Modified	3.53E+00	2.87E+00	2.88E+00	5.61E+00	2.77E+00	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/22/2015	15-06114	Thallium-208	LANL ER-130 Modified	5.09E-01	4.88E-01	4.89E-01	6.33E-01	3.67E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	4.36E-02	6.33E-02	6.35E-02	1.05E-01	2.66E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	-1.20E-02	2.96E-02	2.96E-02	8.44E-02	1.29E-02	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	3.81E-02	4.63E-02	4.65E-02	5.61E-02	3.42E-03	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	1.16E-02	4.16E-02	4.16E-02	9.40E-02	1.78E-02	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	7.81E-02	7.00E-02	7.07E-02	7.46E-02	8.34E-03	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	1.68E-02	3.63E-02	3.64E-02	7.16E-02	9.56E-03	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	1.22E-02	2.92E-02	2.93E-02	6.13E-02	3.73E-03	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	-7.73E-03	2.36E-02	2.36E-02	6.41E-02	8.52E-03	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	7.48E-02	7.99E-02	8.05E-02	1.10E-01	2.27E-02	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	1.13E-01	7.72E-02	7.84E-02	5.32E-02	3.24E-03	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	9.75E-02	7.80E-02	7.89E-02	7.00E-02	6.12E-03	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	1.25E-02	3.01E-02	3.01E-02	6.30E-02	3.85E-03	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	-2.57E-03	2.91E-02	2.91E-02	8.91E-02	1.68E-02	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	3.84E-02	5.36E-02	5.38E-02	8.10E-02	9.05E-03	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	1.23E-01	7.76E-02	7.90E-02	5.50E-02	4.82E-03	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	3.49E-02	4.46E-02	4.48E-02	6.63E-02	1.01E-02	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	3.62E-02	4.76E-02	4.78E-02	7.23E-02	1.07E-03	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	1.42E-03	3.26E-02	3.26E-02	8.28E-02	2.08E-02	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/8/2015	15-06114	Actinium-227	EML Th-01 Modified	2.32E+00	4.99E-01	5.75E-01	6.63E-02	7.39E-03	pCi/g

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Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-01	LCS	KNOWN	06/29/15 00:00	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	5.28E+00	1.43E-01				pCi/g
15-06114-01	LCS	SPIKE	06/29/15 00:00	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	6.37E+00	1.05E+00	1.31E+00	1.00E-01	9.26E-02	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	5.62E-02	6.76E-02	6.79E-02	1.03E-01	8.91E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	3.41E+00	6.98E-01	8.15E-01	8.24E-02	6.42E-02	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	2.84E+00	5.90E-01	6.87E-01	6.88E-02	6.81E-02	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	3.43E-01	1.49E-01	1.54E-01	6.65E-02	6.98E-02	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	1.65E+00	4.05E-01	4.54E-01	8.31E-02	7.69E-02	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	1.21E+00	3.05E-01	3.40E-01	6.99E-02	6.66E-02	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	6.85E-01	2.22E-01	2.38E-01	5.98E-02	6.94E-02	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	8.41E-01	2.28E-01	2.51E-01	4.63E-02	5.37E-02	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	7.18E-01	2.44E-01	2.60E-01	7.51E-02	7.87E-02	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	5.57E-01	1.86E-01	1.98E-01	5.19E-02	6.03E-02	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	5.97E+00	1.17E+00	1.38E+00	7.49E-02	7.39E-02	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	1.29E+00	3.49E-01	3.83E-01	6.15E-02	7.16E-02	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	3.54E-01	1.46E-01	1.53E-01	5.51E-02	6.39E-02	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	4.00E+00	8.36E-01	9.71E-01	7.20E-02	7.57E-02	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	4.27E+00	8.11E-01	9.68E-01	6.71E-02	6.19E-02	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	6.17E-01	1.90E-01	2.05E-01	6.46E-02	5.96E-02	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	7.39E-01	2.17E-01	2.36E-01	4.91E-02	5.69E-02	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	2.07E-01	1.02E-01	1.05E-01	7.57E-02	6.60E-02	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/8/2015	15-06114	Thorium-230	EML Th-01 Modified	3.16E+02	5.05E+01	6.38E+01	6.46E-02	6.39E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

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Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-01	LCS	KNOWN	06/29/15 00:00	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	4.86E+00	1.75E-01				pCi/g
15-06114-01	LCS	SPIKE	06/29/15 00:00	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	5.05E+00	8.73E-01	9.80E-01	6.96E-02	4.56E-03	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	5.40E-02	6.11E-02	6.13E-02	8.55E-02	1.52E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.92E-01	1.09E-01	1.10E-01	8.22E-02	1.41E-03	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.63E-01	9.64E-02	9.75E-02	6.87E-02	8.02E-03	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.90E-01	1.07E-01	1.08E-01	6.64E-02	6.14E-03	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	3.95E-01	1.60E-01	1.64E-01	7.27E-02	8.50E-03	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.07E-01	7.48E-02	7.54E-02	5.91E-02	5.49E-03	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.81E-01	1.05E-01	1.06E-01	6.83E-02	6.33E-03	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	4.52E-01	1.55E-01	1.60E-01	4.62E-02	3.02E-03	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	7.01E-01	2.40E-01	2.48E-01	7.50E-02	6.93E-03	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.57E-01	9.14E-02	9.25E-02	5.93E-02	5.49E-03	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	5.46E-02	5.68E-02	5.70E-02	5.95E-02	3.88E-03	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	7.79E-01	2.50E-01	2.59E-01	8.82E-02	1.52E-03	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.51E-01	9.31E-02	9.41E-02	6.91E-02	8.06E-03	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.85E-01	1.20E-01	1.21E-01	1.29E-01	4.25E-02	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	2.63E-01	1.16E-01	1.18E-01	5.87E-02	6.85E-03	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	5.17E-01	1.70E-01	1.76E-01	6.46E-02	1.11E-03	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	3.36E-01	1.35E-01	1.38E-01	5.61E-02	5.19E-03	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	2.06E-02	4.91E-02	4.91E-02	9.49E-02	3.36E-02	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/8/2015	15-06114	Thorium-232	EML Th-01 Modified	1.94E+00	4.34E-01	4.66E-01	7.35E-02	1.17E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

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Final Report of Analysis

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9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-01	LCS	KNOWN	06/29/15 00:00	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	8.09E+00	2.91E-01				pCi/g
15-06114-01	LCS	SPIKE	06/29/15 00:00	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	6.33E+00	8.64E-01	9.75E-01	6.86E-02	9.47E-03	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	8.59E-03	3.93E-02	3.93E-02	9.21E-02	1.96E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	2.76E-01	1.41E-01	1.42E-01	1.24E-01	3.58E-02	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	2.58E-01	1.24E-01	1.26E-01	9.83E-02	2.41E-02	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	6.40E-02	5.68E-02	5.70E-02	6.11E-02	7.07E-03	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	4.41E-01	1.60E-01	1.63E-01	1.04E-01	3.15E-02	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	8.69E-01	2.10E-01	2.19E-01	5.66E-02	6.56E-03	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	2.50E-01	1.34E-01	1.36E-01	9.04E-02	1.05E-02	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	3.14E-01	1.33E-01	1.35E-01	7.01E-02	8.11E-03	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	2.52E-01	1.10E-01	1.11E-01	4.82E-02	3.10E-03	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	4.20E-01	1.58E-01	1.61E-01	7.23E-02	8.35E-03	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	2.22E-01	1.14E-01	1.15E-01	6.78E-02	6.20E-03	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	3.11E-01	1.85E-01	1.86E-01	1.27E-01	1.16E-02	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	1.40E-01	8.81E-02	8.87E-02	7.66E-02	1.26E-03	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	8.52E-01	3.31E-01	3.37E-01	1.57E-01	1.81E-02	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	2.77E+00	5.49E-01	5.84E-01	1.13E-01	1.56E-02	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	3.00E-01	1.74E-01	1.75E-01	1.26E-01	1.46E-02	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	3.97E-01	1.77E-01	1.79E-01	8.76E-02	8.02E-03	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	2.15E-01	1.03E-01	1.04E-01	5.03E-02	3.23E-03	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/9/2015	15-06114	Uranium-234	EML U-02 Modified	1.31E+00	5.52E-01	5.60E-01	3.49E-01	6.80E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	-1.13E-02	3.43E-02	3.43E-02	9.34E-02	9.97E-03	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	1.27E-01	1.01E-01	1.01E-01	9.15E-02	6.25E-03	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	2.74E-02	4.65E-02	4.66E-02	7.90E-02	5.40E-03	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	5.51E-02	5.69E-02	5.70E-02	6.00E-02	2.71E-03	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	3.91E-02	5.43E-02	5.43E-02	8.24E-02	7.29E-03	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	7.99E-02	6.95E-02	6.98E-02	7.98E-02	6.82E-04	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	7.78E-02	8.44E-02	8.46E-02	1.02E-01	6.95E-03	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	4.66E-02	5.64E-02	5.65E-02	6.87E-02	3.11E-03	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	4.27E-02	5.60E-02	5.61E-02	8.54E-02	7.29E-04	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	4.81E-02	5.82E-02	5.83E-02	7.09E-02	3.20E-03	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	4.95E-02	5.99E-02	6.00E-02	7.30E-02	3.30E-03	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	1.20E-01	1.30E-01	1.31E-01	1.57E-01	1.07E-02	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	2.88E-02	4.41E-02	4.41E-02	6.57E-02	2.98E-03	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	3.69E-02	1.02E-01	1.02E-01	2.21E-01	1.89E-03	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	3.13E-01	1.78E-01	1.80E-01	1.18E-01	8.08E-03	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	5.92E-02	1.01E-01	1.01E-01	1.78E-01	1.52E-03	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	2.22E-02	6.54E-02	6.54E-02	1.42E-01	1.98E-02	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	1.23E-02	2.96E-02	2.96E-02	6.20E-02	2.80E-03	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/9/2015	15-06114	Uranium-235	EML U-02 Modified	-6.80E-02	1.49E-01	1.49E-01	5.09E-01	1.11E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06114
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06114-01	LCS	KNOWN	06/29/15 00:00	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	7.89E+00	2.84E-01				pCi/g
15-06114-01	LCS	SPIKE	06/29/15 00:00	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	6.80E+00	9.14E-01	1.04E+00	6.36E-02	7.07E-03	pCi/g
15-06114-02	MBL	BLANK	06/29/15 00:00	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	1.54E-02	3.84E-02	3.84E-02	8.01E-02	1.24E-02	pCi/g
15-06114-03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	2.37E-01	1.25E-01	1.26E-01	8.71E-02	1.16E-02	pCi/g
15-06114-04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	2.75E-01	1.24E-01	1.25E-01	6.37E-02	5.51E-03	pCi/g
15-06114-05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	4.05E-02	4.62E-02	4.63E-02	6.09E-02	6.75E-03	pCi/g
15-06114-06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	3.67E-01	1.42E-01	1.45E-01	7.99E-02	1.39E-02	pCi/g
15-06114-07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	7.74E-01	1.97E-01	2.04E-01	6.44E-02	7.67E-04	pCi/g
15-06114-08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	3.71E-01	1.64E-01	1.66E-01	8.20E-02	7.09E-03	pCi/g
15-06114-09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	2.88E-01	1.27E-01	1.28E-01	6.36E-02	5.48E-03	pCi/g
15-06114-10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	2.95E-01	1.19E-01	1.21E-01	5.50E-02	4.73E-03	pCi/g
15-06114-11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	2.06E-01	1.10E-01	1.11E-01	8.23E-02	9.78E-04	pCi/g
15-06114-12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	1.08E-01	7.95E-02	7.99E-02	6.75E-02	5.81E-03	pCi/g
15-06114-13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	2.83E-01	1.76E-01	1.77E-01	1.27E-01	1.09E-02	pCi/g
15-06114-14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	1.27E-01	8.38E-02	8.43E-02	7.62E-02	9.11E-04	pCi/g
15-06114-15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	4.71E-01	2.40E-01	2.42E-01	1.24E-01	7.18E-03	pCi/g
15-06114-16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	3.63E+00	6.58E-01	7.07E-01	1.78E-01	6.27E-02	pCi/g
15-06114-17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	2.75E-01	1.66E-01	1.67E-01	1.25E-01	1.39E-02	pCi/g
15-06114-18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	4.10E-01	1.80E-01	1.83E-01	9.57E-02	1.06E-02	pCi/g
15-06114-19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	9.39E-02	6.75E-02	6.78E-02	5.01E-02	2.90E-03	pCi/g
15-06114-20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	6/29/2015	7/9/2015	15-06114	Uranium-238	EML U-02 Modified	1.43E+00	5.83E-01	5.92E-01	3.99E-01	1.02E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

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SECTION V

ANALYTICAL STANDARDS

QA/QC REVIEWED
Date 1/16/95 Initials MC

U-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution: 65.2896 g in a 50 ml flame sealed ampoule
b. Chemical form: Uranyl Nitrate in H2O
c. Carrier content: None
d. Density: Approximately 1.3202 g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration: ±3.0%
b. Random uncertainty in assay: ±0.0%
c. Random uncertainty in weighing(s): ±2.0%
d. Total uncertainty at the 99% confidence level: ±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
3017 N. SAN FERNANDO BLVD.
BURBANK, CALIFORNIA 91504
818·843·7000 FAX 818·843·6168

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

		CURRENT DATE	9/2/2014 0:00
SOLUTION REFERENCE #	IPL 479-50	SOLUTION #	U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide	$^{234, 235, 238}U$	Reference Date	1/1/1995 0:00
Certified Activity	8.016E+00	µCi	
Certified Concentration		µCi per gram	

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution

Uranyl nitrate in dilute HNO_3

Dilution Instructions: **Dilution Solvent Used** 1M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 8.0160 µCi **Which Equals** 1.780E+07 **dpm at the date listed above**

And after dilution the activity of this solution is 1.77955E+04 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 479-50	Solution #	U-8a

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest: $^{234, 235, 238}U$
Parent Solution Conc.: 1.7796E+04 dpm/ml

Reference Date: 1/1/1995 0:00

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	4.0000	ml
Total Activity:	7.1182E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 7.1182E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.356 grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Method of measurement (see reverse of this certificate)

Accuracy Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity The isotopic composition, expressed as atom per cent at the reference date .

Not measured

Chemical Composition Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory

Roger Wiltshire

Project Ref. AE2315

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

AEA Technology is the trading name of AEA Technology plc

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 11/11/2014 0:00

SOLUTION REFERENCE # AEA/Amersham 92/232/67 **SOLUTION #** U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide ^{232}U
Certified Activity 9.760E-01 µCi
Certified Concentration µCi per gram

Reference Date 3/1/2000 0:00

Ampoule /Solution Gross Weight, Grams
Empty Ampoule Weight, Grams
Solution Net Weight, Grams
Total Activity in Ampoule 0.9760 µCi

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used 2M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.9760 µCi **Which Equals** 2.167E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.167E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009,

Rev.8; 11/01/03
Title: **Radioactive Reference Standards Solutions & Records**

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	11/11/2014 0:00
Solution Reference #	AEA/Amersham 92/232/67	Solution #	U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest ^{232}U
Parent Solution Conc. 2.167E+03 dpm/ml

Reference Date 3/1/2000 0:00

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.1670E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.1670E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

QA/QC REVIEWED
Date 10/14/91 Initials MT 10/14/91 MT

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 μCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 μCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

ISOTOPE PRODUCTS LABORATORIES
1800 No. Keystone Street.,
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(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 4/15/2015 0:00

SOLUTION REFERENCE # IPL 388-116 **SOLUTION #** Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide ^{230}Thorium
Reference Date 11/1/1991 0:00
Certified Activity 1.036E+00 µCi
Certified Concentration µCi per gram

Ampoule /Solution Gross	9.2660	**Weight, Grams**
Empty Ampoule	4.6218	**Weight, Grams**
Solution Net	4.6442	**Weight, Grams**
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1N HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0360 µCi **Which Equals** 2.300E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.300E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	4/15/2015 0:00
Solution Reference #	IPL 388-116	Solution #	Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest	^{230}Thorium	Reference Date	11/1/1991 0:00
Parent Solution Conc.	2.30E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000 ml	Final Activity Concentration:	2.2999E+01 dpm/ml
Total Activity:	2.2999E+04 dpm		
Final Volume:	1000.00 ml		

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405 ± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 μCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)
b. Chemical form:	Th(NO3)4 in water
c. Carrier content:	None added
d. Density:	Approx. 1.21 g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 μCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 9/2/2014 0:00

SOLUTION REFERENCE # IPL 435-104-2 **SOLUTION #** Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide $^{232\&228}Th$
Certified Activity 9.330E-02 µCi
Certified Concentration µCi per gram

Reference Date 11/1/1993 0:00

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in H2O

Dilution Instructions:

Dilution Solvent Used 1% Nitric Acid

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.0933 µCi **Which Equals** 2.071E+05 **dpm at the date listed above**

And after dilution the activity of this solution is 2.071E+02 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 435-104-2	Solution #	Th-8b

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{228\ \&\ 232}Th$	1.405E+10	5.132E+12

Radionuclide of Interest	$^{228\ \&\ 232}Th$	Reference Date	11/1/1993 0:00
Parent Solution Conc.	2.07E+02 dpm/ml		

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions: **Dilution Solvent Used** 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	500.0000 ml	Final Activity Concentration:	1.0355E+02 dpm/ml
Total Activity:	1.0355E+05 dpm		
Final Volume:	1000.00 ml		

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity: (Th-229 only)**	1.013 **µCi** 37.48 **kBq**

Physical Description:

A.	Mass of solution:	5.0147 g in 5 mL flame-sealed ampoule
B.	Chemical form:	$Th(NO_3)_4$ in 0.1M HNO_3
C.	Carrier content:	10µg Th/mL
D.	Density:	1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.

Peak energy used for integration:	193.5 keV
Branching ratio used:	0.0441 gammas per decay

Uncertainty of Measurement:

A.	Type A (random) uncertainty:	± 0.7 %
B.	Type B (systematic) uncertainty:	± 3.0 %
C.	Uncertainty in aliquot weighing:	± 0.0 %
D.	Total uncertainty at the 99% confidence level:	± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 867-54 | SOLUTION #: Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide: ^{229}Th
Reference Date: 1/15/2002 0:00
Certified Activity: 1.013E+00 µCi
Certified Concentration: µCi per gram

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1 M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 1.0130 µCi Which Equals 2.249E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.249E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009
Solution Reference # IPL 867-54 **Date** 9/2/2014 0:00 **Solution #** Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{228}Th	7.340E+03	2.681E+06

Radionuclide of Interest ^{229}Th
Parent Solution Conc. 2.25E+03 dpm/ml

Reference Date 1/15/2002 0:00

Chemical Composition of Standard Solution
$TH(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2490E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2490E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404·352·8677
Fax 404·352·2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION
Standard Radionuclide Source

GAS-1402

98503

Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty*, % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ANA Form005 Rev. --

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

: 00047

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06114	UUISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		78.23%	15.40%	100.00%	3.60%	8.09E+00	2.91E-01	6.33E+00	9.75E-01	U-8a	3.52E+01	3.60E+00	5.10E-01
U-238		86.24%	15.22%	100.00%	3.60%	7.89E+00	2.84E-01	6.80E+00	1.04E+00	U-8a	3.44E+01	3.60E+00	5.10E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

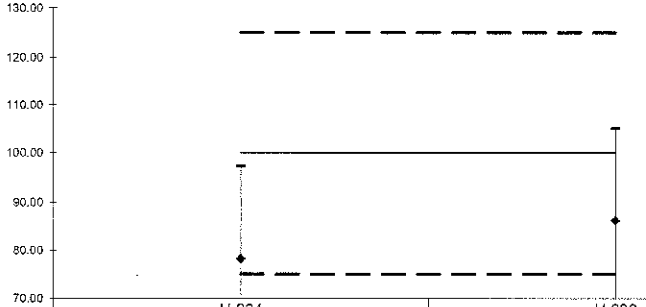
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	0.18	6.61	2.58E-01	1.26E-01	2.76E-01	1.42E-01
U-238	0.43	15.12	2.75E-01	1.25E-01	2.37E-01	1.26E-01
U-235	1.76	129.20	2.74E-02	4.66E-02	1.27E-01	1.01E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.78	OK				NA	OK
0.86	OK				NA	OK
	OK				NA	OK

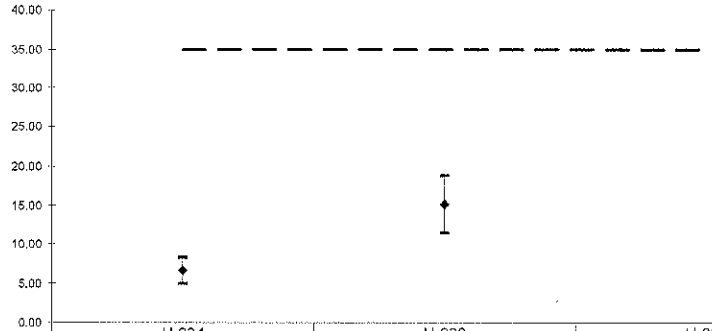
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06114	UUISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



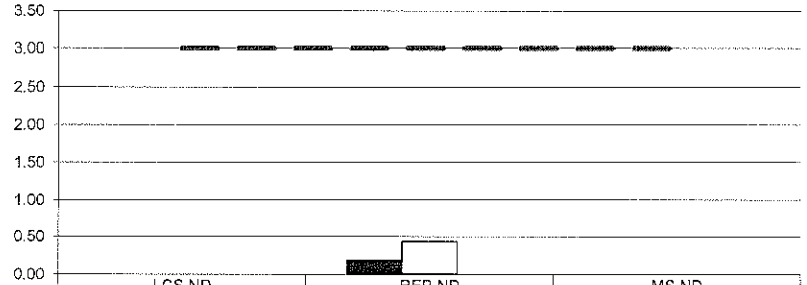
	U-234	U-238
Lower Error	59.23	67.42
Upper Error	97.23	105.06
%R	78.23	86.24
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	8.26	18.83	190.84
Upper Error	4.95	11.41	67.56
RPD	6.61	15.12	129.20
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	0.18	0.00
U-238	0.00	0.43	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06114	ThISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		116.84%	19.34%	100.00%	3.60%	4.86E+00	1.75E-01	5.68E+00	1.10E+00	Th-8b	1.04E+02	3.60E+00	1.04E-01
TH-230		120.59%	20.64%	100.00%	2.70%	5.28E+00	1.43E-01	6.37E+00	1.31E+00	Th-1b	2.35E+01	2.70E+00	4.98E-01
TH-232		103.90%	19.41%	100.00%	3.60%	4.86E+00	1.75E-01	5.05E+00	9.80E-01	Th-8b	1.04E+02	3.60E+00	1.04E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

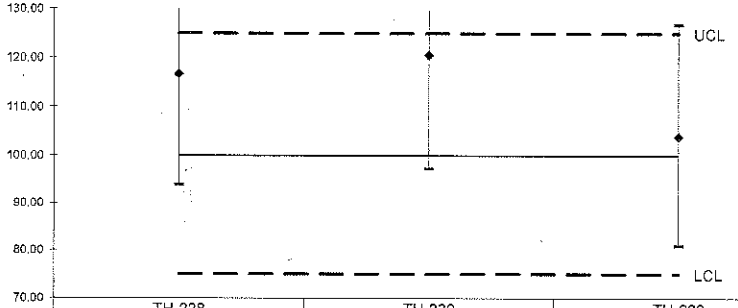
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	2.22	109.51	6.01E-02	6.02E-02	2.05E-01	1.13E-01
TH-230	1.04	18.19	2.84E+00	6.87E-01	3.41E+00	8.15E-01
TH-232	0.38	16.03	1.63E-01	9.75E-02	1.92E-01	1.10E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.17	OK				NA	OK
1.21	OK				OK	OK
1.04	OK				OK	OK

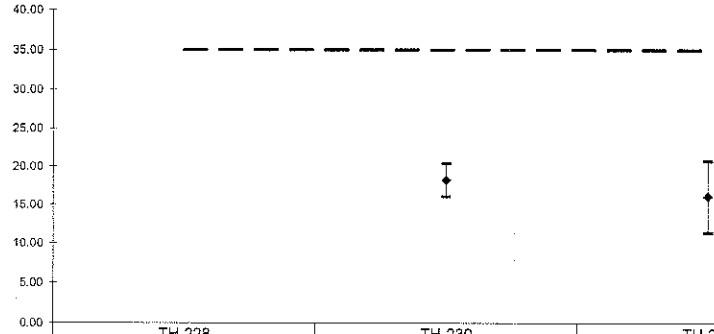
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06114	ThISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



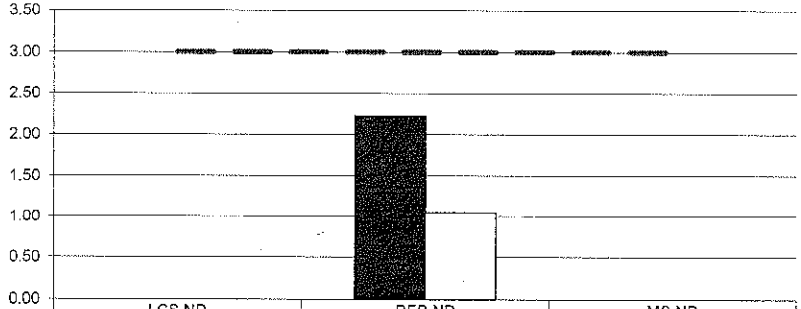
	TH-228	TH-230	TH-232
Lower Error	93.90	97.25	80.89
Upper Error	139.78	143.93	126.90
%R	116.84	120.59	103.90
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	145.30	20.38	20.71
Upper Error	73.73	16.01	11.35
RPD	109.51	18.19	16.03
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	2.22	0.00
TH-230	0.00	1.04	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06114	Gamma	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		100.96%	8.23%	100.00%	4.00%	1.37E+02	5.48E+00	1.38E+02	1.14E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		101.12%	9.94%	100.00%	4.00%	8.69E+01	3.48E+00	8.79E+01	8.73E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

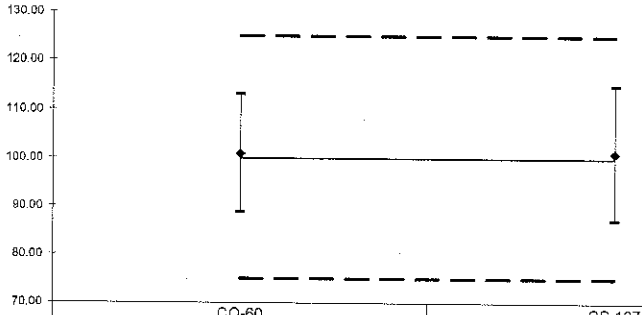
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
K-40	0.46	4.13	1.54E+01	1.91E+00	1.48E+01	1.84E+00
PA-231	1.20	2548.31	4.24E-01	8.97E-01	-3.62E-01	9.13E-01
PB-210	0.38	29.48	9.58E-01	1.01E+00	1.29E+00	1.36E+00

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.01	OK		<CS-137	K-40>	NA	
1.01	OK		<CO-60	PA-231>	NA	OK
				PB-210>	NA	OK

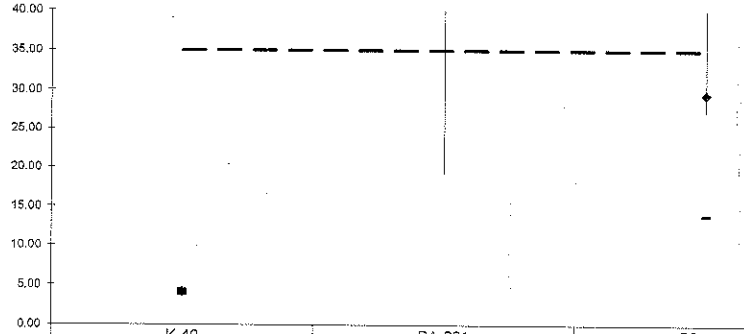
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06114	Gamma	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



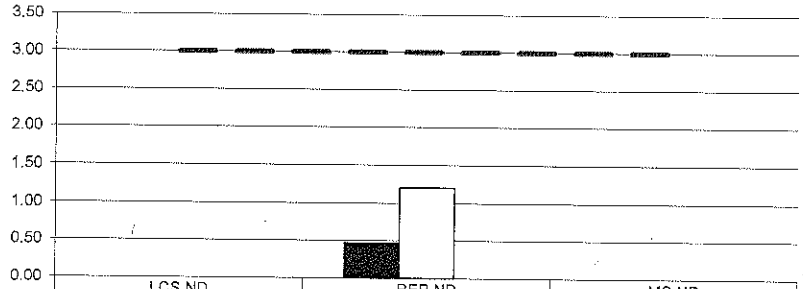
	CO-60	CS-137
Lower Error	88.73	87.18
Upper Error	113.19	115.06
%R	100.96	101.12
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	K-40	PA-231	PB-210
Lower Error	4.39	39934.45	45.04
Upper Error	3.87	-34837.83	13.92
RPD	4.13	2548.31	29.48
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.46	0.00
CS-137	0.00	1.20	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06114
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWolfe
7/6/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06114
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/08/15 16:16	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

7/8/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06114
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/08/15 16:16	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	07/09/15 05:01	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

7-9-15
JM

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order: 15-06114

Analysis Code: UUISO

Run: 1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	7/6/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	7/6/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	7/6/2015
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/8/2015
016529S	HCl - HF	6.5N - 0.04N	JDEMELAS	7/8/2015
016082D07	Hydrochloric Acid	0.5N	JDEMELAS	7/8/2015
016431S	Hydrochloric Acid	6.5N	JDEMELAS	7/8/2015
016128P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/8/2015
016538S	Hydrochloric Acid	8N	JDEMELAS	7/8/2015
016554S	HCl - NH4I	8N - 0.1M	JDEMELAS	7/8/2015
016128D01	Hydrochloric Acid	0.5N	JDEMELAS	7/8/2015
016551S	Carbon substrate	Solution	TSMITH	7/9/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/9/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	7/9/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/9/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	7/9/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analyzed	Tech
7/8/15	1506114A(7-20)	AMO Env.	1200	2hr 50	TH	KB
7/8/15	1506116A(1-4)	Unitech	1202	2hr 50	Np	KB
7/8	Daily Pulse	LAB	0525	1	[illegible]	—
7/8	1506114A(8-20)	AMO	0845	2.5	Ulf 50	—
7/8	1507015A(1-4)	UCON	0846	2.5	Ulf 50	—
7/8	1507015A(1-4,7)	UCON	0847	2.5	Pu 242	—
7/8	1507015A(1-4)	UCON	0847	2.5	Pu 242	—
7/8	1507015A(1)	UCON	0848	2.5	Th 229	—

Alpha #1

Date	Sample #	Client	Load Time	CT Time	Analyst	Tech
7/12	Daily Pulse	LAB	0526	1	NA	—
7/6/15	1506111A(1-6)	Test America	1049	2hr50	Rode	KB
7/12	Daily Pulse	LAB	0511	1	NA	—
7/12	Daily Pulse	LAB	0511	1	NA	—
7/12	1506108A(1-4)	Washington	0853	2h5	~~Am241~~ Am241	C
7/12	1506116A(1-3)	Uniteah	0853	2h5	Am241	—
7/12	Daily Pulse	LAB	0525	1	NA	—
7/12	1506114A(1-7)	AMO	0845	2h5	Unit 30	—

ISO TH NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06114
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWolfe
7/16/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06114
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/07/15 17:32	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

7/7/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06114
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/07/15 17:32	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
3	07/08/15 04:56	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Thorium)

7-8-15

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-06114	
Analysis Code	Run
ThISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	7/6/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	7/6/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	7/6/2015
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/7/2015
016538S	Hydrochloric Acid	8N	JDEMELAS	7/7/2015
016128P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/7/2015
016534S	Nitric Acid	8N	JDEMELAS	7/7/2015
016403P	Nitric Acid	Reagent Grade	JDEMELAS	7/7/2015
016288S	Cerrium Carrier	0.1mg/ml	TSMITH	7/8/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/8/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/8/2015
016551S	Carbon substrate	Solution	TSMITH	7/8/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analyzed	Tech
6/29	1506101A(1-4)	Mirion	0905	5hr 35	UUTSO	–
6/29/15	1506104A (1-4)	ECC	1217	2hr 50	Rule	KB
6/29/15	1506095A(1-4)	TEC	1312	2hr 50	Rule	KB
6/29/15	1506092A (1-7)	Accutest	1308	2hr 50	Rule	KB
6/30	Daily Pulse	LAB	0516	1	NA	–
6/30	1506097A(1-4)	UCOR	0838	2hr 5	NP 232	–
6/30	1506097A(1-4)	UCOR	0945	2hr 5	Am 241	–
6/30	1506097A(1-4)	UCOR	0945	2hr 5	Am 243	–
6/30/15	1506104A(1-4)	ECC	1228	2hr 50	UU	KB
6/30/15	1506110A(1-6)	Test America	1247	2hr 50	Rule	KB
7/01	Daily Pulse	LAB	0500	1	NA	–
7/01	SECCAL(33-48)	LAB	0518	2hr 30	NA	–
7/01	SECCAL(49-60)	LAB	0753	2hr 5	NA	–
7/01	1506102A(8-13)	AMO	0814	2hr 5	Th TSO	–
7/01	1506112A(1-4)	Div. Sci	0814	2hr 5	UUTSO	–
7/1/15	System Bkgd	Lab	1351	16hr 40min	α	A
7/6	Daily Pulse	LAB	0526	1	NA	–
7/6	1506108A(1-4)	Washington	0845	2hr 5	UUTSO	–
7/6	1506116A(1-4)	United	0845	2hr 5	UUTSO	–
7/6	1506108A(1-4,6)	Washington	0846	2hr 5	PuTSO	–
7/6	1506116A(1-4)	United	0847	2hr 5	PuTSO	–
7/6	1506116A(1-4)	United	0847	2hr 5	Th TSO	–
7/6/15	1506118A(1-4)	Test America	1052	2hr 50	Rule	KB
7/6/15	1506119A (1-6)	Accutest	1142	2hr 50	Rule	KB
7/7	Daily Pulse	LAB	0511	1	NA	–
7/7/15	1507004A(1-7)	ECC	1048	2hr 50	Rule	KB
7/7/15	1507001A (1-6)	Accutest	1102	2hr 50	Rule	KB
7/8	Daily Pulse	LAB	0511	1	NA	
7/8	1506116A(4)	United	0853	2hr 5	Am 241	–
7/8	1507004A(1-7)	Enviro	0854	2hr 5	UUTSO	–
7/8	1507006A(1-5)	United	0855	2hr 5	UUTSO	–
7/8	1506115A(1-4)	AMO	0856	2hr 50	UUTSO	–
7/8	1506115A(1-4)	AMO	0854	2hr 5	Th TSO	–
7/8	1506114A(1-6)	AMO	0857	2hr 5	Th TSO	–

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analyzed	Tech
7/8/15	1506114A(7-20)	AMO Env.	1200	2hr50min	TK	KB
7/8/15	1506116A(1-4)	Unitech	1202	2hr50min	Np	KB

GAMMA NOTES

GE 2

DATE	SAmple #	Client	Load Time	CT Time	Analysis	Tech
7/16	1507054-02	Unitech	0771	2L	✓	C
7/16	1507054-01	Unitech	0933	2L	✓	C
7/16/15	1507064-01	ND	1006	15mins	Ba	KB
7/16/15	1507064-04	ND	1022	15mins	Ba	KB
7/16/15	1507066-02	ND	1038	15mins	Ba	KB
7/16/15	1507022-01	UCOR	1053	15mins	Ba	KB
7/16/15	1507022-04	UCOR	1109	15 min	Ba	KB
7/16/15	1507098-03	UCOR	1124	1hr	✓	KB
7/16/15	1507098-04	UCOR	1225	1hr	✓	KB
7/16/15	1507055-05	James R. Reed	1336	4hrs	✓	KB
7/16/15	1507055-08	James R. Reed	1741	4hrs	✓	KB
7/17	GT 81401	LAB	0524	15	✓	C
7/17	Daily R	LAB	0551	15	✓	C
7/17	1507055-10	James R.	0611	4L	✓	C
7/17/15	1507113-05	Eden Foods	1030	2hrs	✓	KB
7/17/15	1507106-05	UCOR	1232	1hr	✓	KB
7/17/15	1507107-03	UCOR	1337	4hrs	✓	KB
7/17/15	1507107-04	UCOR	1738	4hrs	✓	KB
7/18/15	Chamber Bkgd	Lab	0912	24hr	✓	AG
7/2	GT 81401	LAB	0521	15	✓	C
7/2	Daily R	LAB	0545	15	✓	C
7/2	1507056-02	UCOR	0611	4L	✓	—
7/2	1507117-02	~~UCO~~ Inst Environ	1018	2L	✓	—
7/20/15	1507120-03	Eden Foods	1220	2hrs	✓	KB
7/20/15	1507120-04	Eden Foods	1421	2hrs	✓	KB
7/20/15	1507120-07	Eden Foods	1622	2hrs	✓	KB
7/20/15	1507089-02	UCOR	1823	4hrs	✓	KB
7/21	GT 81401	LAB	0517	15	✓	C
7/21	Daily R	LAB	0547	15	✓	C
7/21	1506115-01	AMO	0607	3	✓	—
7/21	1506091-01	Hydro	0641	3	✓	—
7/21	1506114-01	AMO	0717	3	✓	—

DATE	SAmple #	Client	Load Time	CT Time	Analysis	Tech
7/21	1507020-03	Ucon	0702	2L	✓	—
7/21	1507020-04	Ucon	0902	2L	✓	—
7/20/15	1507093-01	Access	1103	15mins	Ba	KB
7/20/15	1507093-02	Access	1119	15 mins	Ba	KB
7/20/15	1507093-05	Access	1135	15mins	Ba	KB
7/20/15	1507093-09	Access	1151	15mins	Ba	KB
7/20/15	1507093-KB11	Access	1207	15mins	Ba	KB
7/20/15	1507119-03	Eden Foods	1225	2hr	✓	KB
7/20/15	1507119-04	Eden Foods	1427	2hr	✓	KB
7/20/15	1507120-03	Eden Foods	1628	2hr	✓	KB
7/21	Control	UB	0517	1L	✓	—
7/21	Dairy B	UB	0542	1L	✓	—
7/21	1506115-02	Aro	0607	2L	✓	—
7/21	1506121-02	Hydro	0712	2L	✓	—
7/21	1506114-02	Aro	0818	2L	✓	—

DATE	Sample #	Client	Lod Time	Ct Time	Analysis	Tech
7/20	1507117-03	[illegible]	1018	2h	✓	
7/20	1507117-04	[illegible]	1219	2h	✓	
7/20/15	1507120-05	Eden Foods	1421	2hrs	✓	KB
7/20/15	1507120-06	Eden Foods	1622	2hrs	✓	KB
7/20/15	1507089-03	UCOR	1822	4hrs	✓	KB
7/21	GFF14	LAB	0517	15	✓	
7/21	Dairy	LAB	0542	15	✓	
7/21	1507089-04	UCOR	0606	4h	✓	
7/21/15	1507122-02	Eden Foods	1007	2hr	✓	KB
7/21/15	1507122-01	Eden Foods	1207	30mins	✓	KB
7/21	1507123-01	Weston	1320	7	✓	
7/21/15	1507123-03	Weston	1353	4hrs	✓	KB
7/21/15	1507123-04	Weston	1753	4hrs	✓	KB
7/22	GFF14	LAB	0528	15	✓	
7/22	Dairy	LAB	0558	15	✓	
7/22	1506115-03	AMO	0617	2h	✓	
7/22	1506115-04	AMO	0723	2h	✓	
7/22	1506114-03	AMO	0827	2h	✓	
7/22	1506114-04	AMO	0929	2h	✓	
7/22	1506114-11	AMO	1029	2h	✓	
7/22	1507121-01	UCOR	1132	15	Ba	
7/22	1507050-01	Accutest	1142	15	Ba	
7/22	1507051-01	Accutest	1209	15	Ba	
7/22/15	1507105-01	Access	1122	15mins	Ba	KB
7/22/15	1507052-01	Accutest	1238	15mins	Ba	KB
7/22/15	1507052-05	Accutest	1254	15mins	Ba	KB
7/22	1507048-03	~~Test America~~ Accutest	1312	15	Ba	
7/22	1507048-07	Test America	[illegible]	15	Ba	

GE 2

DATE	Sample #	Client	Lead Time	CT. Time	Analysis	Tech
7/21	1507081-07	ERA	0811	2L	✓	C
7/21	1507081-04	ERA	1011	2L	✓	C
7/21/15	1507081-05	ERA	1212	2hrs	✓	KB
7/21/15	1507081-06	ERA	1414	2hrs	✓	KB
7/21/15	1507081-07	ERA	1616	2hrs	✓	KB
7/21/15	1507081-08	ERA	1819	2hrs	✓	KB
7/22	CBS1401	LAS	0528	15	✓	C
7/22	Dup4R	LAS	0558	15	✓	C
7/22	1506021-03	Hydro	0617	2L	✓	C
7/22	1506021-04	Hydro	0720	2L	✓	C
7/22	1506114-05	AMO	0827	2L	✓	—
7/22	1506114-08	AMO	0929	2L	✓	—
7/22	1506114-12	AMO	1029	2L	✓	—
7/22	1507121-02	Ucon	1132	15	Ba	—
7/22	1507050-02	Accutest	1149	15	Ba	—
7/22	1507057-02	Accutest	1204	15	Ba	—
7/22/15	1507105-02	Access	1222	15mins	Ba	KB
7/22/15	1507052-02	Accutest	1238	15mins	Ba	KB
7/22/15	1507052-06	Accutest	1254	15mins	Ba	KB
7/22	1507048-04	~~Test America~~ Accutest	1312	15	Ba	—
7/22	1507048-08	Test America	1327	15	Ba	—
7/22/15	1506114-19	AMO Env.	1344	1hr	✓	KB
7/22/15	1506114-16	AMO Env.	1446	1hr	✓	KB

GE 3

DATE	SAmple #	Client	Load Time	CT Time	Analysis	Tech
7/20	1507090-03	Ucon	0702	2h	✓	—
7/20	1507090-04	Ucon	0902	2h	✓	—
7/20/15	1507093-01	Access	1103	15mins	Ba	KB
7/20/15	1507093-02	Access	1119	15 mins	Ba	KB
7/20/15	1507093-05	Access	1135	15mins	Ba	KB
7/20/15	1507093-08	Access	1151	15mins	Ba	KB
7/20/15	1507093-~~10~~ KB 11	Access	1207	15mins	Ba	KB
7/20/15	1507119-03	Eden Foods	1225	2hrs	✓	KB
7/20/15	1507119-04	Eden Foods	1427	2hrs	✓	KB
7/20/15	1507120-08	Eden Foods	1628	2hrs	✓	KB
7/21	GTF 1402	LAB	0517	15	✓	—
7/21	Daily B	LAB	0542	15	✓	—
7/21	1506115-02	AMO	0607	2h	✓	—
7/21	1506091-02	Hydro	0712	2h	✓	—
7/21	1506114-02	AMO	0818	2h	✓	—
7/21	1507122-03	Eden	0923	2h	✓	—
7/21	1507122-04	Eden	1124	2h	✓	—
7/21/15	1507123-02	Weston	1656	4hrs	✓	KB
7/22	GTF 1402	LAB	0528	15	✓	—
7/22	Daily B	LAB	0558	15	✓	—
7/22	1506091-05	Hydro	0617	2h	✓	—
7/22	1506091-07	Hydro	0723	2h	✓	—
7/22	1506114-06	AMO	0827	2h	✓	—
7/22	1506114-09	AMO	0929	2h	✓	—
7/22	1506114-13	AMO	1030	2h	✓	—
7/22	1507121-03	Ucon	1132	15	Ba	—
7/22	1507050-03	~~Accutest~~	1149	15	Ba	—
7/22	1507051-03	~~Accutest~~	1206	15	Ba	—
7/22/15	1507105-03	Access	1222	15mins	Ba	KB
7/22/15	1507052-03	Accutest	1238	15mins	Ba	KB
7/22/15	1507048-01	Test America	1255	15mins	Ba	KB
7/22	1507048-05	Test America	1312	15	Ba	—
7/22	1507048-09	Test American	1327	15	Ba	—

GE 3

DATE	SAmple #	Client	LoadTime	CT.Time	AnalysisTech	
7/24/15	1506114-20	AMO Env.	1344	1hr	✓	KB
7/24/15	1506114-17	AMO Env.	1446	1hr	✓	KB

GE 4

DATE	SAmple #	Client	Lead Time	CT Time	Analysis	Tech
7/22	1506021-06	Hydro	0617	1L	V	—
7/22	1506021-08	Hydro	0720	1L	V	—
7/22	1506114-07	AMO	0827	1L	V	—
7/22	1506114-13	AMO	0929	1L	V	—
7/22	1506114-14	AMO	1030	1L	V	—
7/22	1507044-04	Ucon	1132	15	Ba	—
7/22	1507053-04	Accutest	1149	15	Ba	—
7/22	1507057-04	Accutest	1204	15	Ba	—
7/22/15	1507105-04	Access	1223	15 mins	Ba	ICB
7/22/15	1507052-04	Accutest	1235	15 mins	Ba	ICB
7/22/15	1507048-02	Test America	1255	15 min	Ba	ICB
7/22	1507048-06	Test America	1312	15 min	Ba	—
7/22	1507048-10	Test America	1327	15	Ba	—
7/22/15	1506114-15	AMO Env.	1344	1 hr	V	ICB
7/22/15	1506114-18	AMO Env.	1446	1 hr	V	ICB

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

15-06114
UUISO
Run 1

Work Order	15-06114
Analysis Code	UUISO
Run	1
Date Received	6/29/2015
Lab Deadline	7/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.7
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/29/15 00:00	1.0000E+00
02	MBL	BLANK		06/29/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-09.099-100	47	06/17/15 13:14	1.0164E+00
04	DO	FEEBRIS1D-09.099-100	47	06/17/15 13:14	1.0164E+00
05	TRG	FEEBRIS1D-09.078-079	54	06/17/15 13:00	1.1124E+00
06	TRG	FEEBRIS1D-01.007-009	53	06/22/15 10:07	1.0600E+00
07	TRG	FEEBRIS1D-01.024-027	44	06/22/15 10:15	1.0260E+00
08	TRG	FEEBRIS1D-02.027-030	63	06/22/15 11:04	9.0000E-01
09	TRG	FEEBRIS1D-02.020-023	66	06/22/15 11:20	1.0540E+00
10	TRG	FEEBRIS1D-02.036-037	63	06/22/15 11:30	1.0500E+00
11	TRG	FEEBRIS1D-18.013-014	48	06/22/15 12:47	1.0540E+00
12	TRG	FEEBRIS1D-18.038-041	37	06/22/15 12:56	1.0800E+00
13	TRG	FEEBRIS1D-18.044-046	61	06/22/15 13:04	5.1700E-01
14	TRG	FEEBRIS1D-17.030-031	48	06/22/15 14:56	1.0512E+00
15	TRG	FEEBRIS1D-17.033-036	65	06/22/15 15:03	5.1120E-01
16	TRG	FEEBRIS1D-13.093-094	61	06/12/15 14:15	6.0200E-01
17	TRG	FEEBRIS1D-13.085-086	60	06/12/15 14:32	6.5100E-01
18	TRG	FEEBRIS1D-14.082-084	49	06/12/15 14:51	1.1060E+00
19	TRG	FEEBRIS1D-14.054-056	40	06/12/15 14:58	1.1500E+00
20	TRG	FEEBRIS1D-09.088-089	78	06/11/15 08:55	2.6760E-01

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6087	11.4		0.00								
02	MBL	0.6064	11.3		0.00								
03	DUP	0.6061	11.3		0.00								
04	DO	0.6044	11.3		0.00								
05	TRG	0.6039	11.3		0.00								
06	TRG	0.6030	11.3		0.00								
07	TRG	0.6031	11.3		0.00								
08	TRG	0.6025	11.3		0.00								
09	TRG	0.6018	11.3		0.00								
10	TRG	0.6027	11.3		0.00								
11	TRG	0.6006	11.2		0.00								
12	TRG	0.6023	11.3		0.00								
13	TRG	0.6023	11.3		0.00								
14	TRG	0.6003	11.2		0.00								
15	TRG	0.6005	11.2		0.00								
16	TRG	0.5987	11.2		0.00								
17	TRG	0.5994	11.2		0.00								
18	TRG	0.5980	11.2		0.00								
19	TRG	0.5985	11.2		0.00								
20	TRG	0.5996	11.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			06/30/15 09:48	JWOLFE				
02	MBL			06/30/15 09:48	JWOLFE				
03	DUP			06/30/15 09:48	JWOLFE				
04	DO	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
05	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
06	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
07	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
08	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
09	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
10	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
11	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
12	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
13	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
14	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
15	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
16	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
17	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
18	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
19	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				
20	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:48	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

TRG

Work Order: 15-06114-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06114
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	6.33E+00	8.64E-01	6.86E-02	8.09E+00	78.23	OK		OK	
02	U-234	MBL	BLANK	pCi/g	8.59E-03	3.93E-02	9.21E-02					OK	OK
03	U-234	DUP	FEEBRIS1D-09.099-100	pCi/g	2.76E-01	1.41E-01	1.24E-01				NA	OK	
04	U-234	DO	FEEBRIS1D-09.099-100	pCi/g	2.58E-01	1.24E-01	9.83E-02					OK	
05	U-234	TRG	FEEBRIS1D-09.078-079	pCi/g	6.40E-02	5.68E-02	6.11E-02					OK	
06	U-234	TRG	FEEBRIS1D-01.007-009	pCi/g	4.41E-01	1.60E-01	1.04E-01					OK	
07	U-234	TRG	FEEBRIS1D-01.024-027	pCi/g	8.69E-01	2.10E-01	5.66E-02					OK	
08	U-234	TRG	FEEBRIS1D-02.027-030	pCi/g	2.50E-01	1.34E-01	9.04E-02					OK	
09	U-234	TRG	FEEBRIS1D-02.020-023	pCi/g	3.14E-01	1.33E-01	7.01E-02					OK	
10	U-234	TRG	FEEBRIS1D-02.036-037	pCi/g	2.52E-01	1.10E-01	4.82E-02					OK	
11	U-234	TRG	FEEBRIS1D-18.013-014	pCi/g	4.20E-01	1.58E-01	7.23E-02					OK	
12	U-234	TRG	FEEBRIS1D-18.038-041	pCi/g	2.22E-01	1.14E-01	6.78E-02					OK	
13	U-234	TRG	FEEBRIS1D-18.044-046	pCi/g	3.11E-01	1.85E-01	1.27E-01					OK	
14	U-234	TRG	FEEBRIS1D-17.030-031	pCi/g	1.40E-01	8.81E-02	7.66E-02					OK	
15	U-234	TRG	FEEBRIS1D-17.033-036	pCi/g	8.52E-01	3.31E-01	1.57E-01					OK	
16	U-234	TRG	FEEBRIS1D-13.093-094	pCi/g	2.77E+00	5.49E-01	1.13E-01					OK	
17	U-234	TRG	FEEBRIS1D-13.085-086	pCi/g	3.00E-01	1.74E-01	1.26E-01					OK	
18	U-234	TRG	FEEBRIS1D-14.082-084	pCi/g	3.97E-01	1.77E-01	8.76E-02					OK	
19	U-234	TRG	FEEBRIS1D-14.054-056	pCi/g	2.15E-01	1.03E-01	5.03E-02					OK	
20	U-234	TRG	FEEBRIS1D-09.088-089	pCi/g	1.31E+00	5.52E-01	3.49E-01					INV	

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	06/29/15 00:00	1.00E+00	125.25	0.00	0.00			
02	U-234	MBL	06/29/15 00:00	1.00E+00	104.48	0.00	0.00			
03	U-234	DUP	06/17/15 13:14	1.02E+00	87.64	0.00	0.00			
04	U-234	DO	06/17/15 13:14	1.02E+00	97.36	0.00	0.00			
05	U-234	TRG	06/17/15 13:00	1.11E+00	105.77	0.00	0.00			
06	U-234	TRG	06/22/15 10:07	1.06E+00	106.87	0.00	0.00			
07	U-234	TRG	06/22/15 10:15	1.03E+00	102.10	0.00	0.00			
08	U-234	TRG	06/22/15 11:04	9.00E-01	94.92	0.00	0.00			
09	U-234	TRG	06/22/15 11:20	1.05E+00	105.50	0.00	0.00			
10	U-234	TRG	06/22/15 11:30	1.05E+00	132.92	0.00	0.00			
11	U-234	TRG	06/22/15 12:47	1.05E+00	101.26	0.00	0.00			
12	U-234	TRG	06/22/15 12:56	1.08E+00	101.52	0.00	0.00			
13	U-234	TRG	06/22/15 13:04	5.17E-01	119.38	0.00	0.00			
14	U-234	TRG	06/22/15 14:56	1.05E+00	102.26	0.00	0.00			
15	U-234	TRG	06/22/15 15:03	5.11E-01	93.62	0.00	0.00			
16	U-234	TRG	06/12/15 14:15	6.02E-01	117.50	0.00	0.00			
17	U-234	TRG	06/12/15 14:32	6.51E-01	97.79	0.00	0.00			
18	U-234	TRG	06/12/15 14:51	1.11E+00	65.56	0.00	0.00			
19	U-234	TRG	06/12/15 14:58	1.15E+00	104.31	0.00	0.00			
20	U-234	TRG	06/11/15 08:55	2.68E-01	105.44	0.00	0.00			

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	07/09/15 08:45		A_Spec	Alpha_003	170.03	5.20 E+02	4.00 E-03	17.4
02	U-234	MBL	07/09/15 08:45		A_Spec	Alpha_004	170.02	6.40 E-01	8.00 E-03	18.9
03	U-234	DUP	07/09/15 08:45		A_Spec	Alpha_010	170.02	1.78 E+01	1.30 E-02	19.2
04	U-234	DO	07/09/15 08:45		A_Spec	Alpha_011	170.02	1.93 E+01	1.00 E-02	20
05	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_012	170	5.49 E+00	3.00 E-03	19.4
06	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_014	170.02	3.46 E+01	1.40 E-02	18.4
07	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_015	170.02	8.05 E+01	3.00 E-03	23.5
08	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_033	170	1.45 E+01	3.00 E-03	18
09	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_034	170	2.35 E+01	3.00 E-03	17.9
10	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_035	170	2.18 E+01	1.00 E-03	16.5
11	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_036	170	3.05 E+01	3.00 E-03	18.1
12	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_037	170	1.57 E+01	2.00 E-03	17.1
13	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_038	170	1.17 E+01	2.00 E-03	16.2
14	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_039	170	1.10 E+01	0.00 E+00	19.3
15	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_040	170	2.85 E+01	3.00 E-03	18.6
16	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_041	170	1.38 E+02	4.00 E-03	18.7
17	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_042	170	1.25 E+01	3.00 E-03	17.4
18	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_043	170	2.17 E+01	2.00 E-03	20
19	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_044	170	1.78 E+01	1.00 E-03	18.4
20	U-234	TRG	07/09/15 08:45		A_Spec	Alpha_046	170	2.48 E+01	7.00 E-03	17.8

Work Order: 15-06114-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06114
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	6.80E+00	9.14E-01	6.36E-02	7.89E+00	86.24	OK		OK	
02	U-238	MBL	BLANK	pCi/g	1.54E-02	3.84E-02	8.01E-02					OK	OK
03	U-238	DUP	FEEBRIS1D-09.099-100	pCi/g	2.37E-01	1.25E-01	8.71E-02				NA	OK	
04	U-238	DO	FEEBRIS1D-09.099-100	pCi/g	2.75E-01	1.24E-01	6.37E-02					OK	
05	U-238	TRG	FEEBRIS1D-09.078-079	pCi/g	4.05E-02	4.62E-02	6.09E-02					OK	
06	U-238	TRG	FEEBRIS1D-01.007-009	pCi/g	3.67E-01	1.42E-01	7.99E-02					OK	
07	U-238	TRG	FEEBRIS1D-01.024-027	pCi/g	7.74E-01	1.97E-01	6.44E-02					OK	
08	U-238	TRG	FEEBRIS1D-02.027-030	pCi/g	3.71E-01	1.64E-01	8.20E-02					OK	
09	U-238	TRG	FEEBRIS1D-02.020-023	pCi/g	2.88E-01	1.27E-01	6.36E-02					OK	
10	U-238	TRG	FEEBRIS1D-02.036-037	pCi/g	2.95E-01	1.19E-01	5.50E-02					OK	
11	U-238	TRG	FEEBRIS1D-18.013-014	pCi/g	2.06E-01	1.10E-01	8.23E-02					OK	
12	U-238	TRG	FEEBRIS1D-18.038-041	pCi/g	1.08E-01	7.95E-02	6.75E-02					OK	
13	U-238	TRG	FEEBRIS1D-18.044-046	pCi/g	2.83E-01	1.76E-01	1.27E-01					OK	
14	U-238	TRG	FEEBRIS1D-17.030-031	pCi/g	1.27E-01	8.38E-02	7.62E-02					OK	
15	U-238	TRG	FEEBRIS1D-17.033-036	pCi/g	4.71E-01	2.40E-01	1.24E-01					OK	
16	U-238	TRG	FEEBRIS1D-13.093-094	pCi/g	3.63E+00	6.58E-01	1.78E-01					OK	
17	U-238	TRG	FEEBRIS1D-13.085-086	pCi/g	2.75E-01	1.66E-01	1.25E-01					OK	
18	U-238	TRG	FEEBRIS1D-14.082-084	pCi/g	4.10E-01	1.80E-01	9.57E-02					OK	
19	U-238	TRG	FEEBRIS1D-14.054-056	pCi/g	9.39E-02	6.75E-02	5.01E-02					OK	
20	U-238	TRG	FEEBRIS1D-09.088-089	pCi/g	1.43E+00	5.83E-01	3.99E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06114-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	06/29/15 00:00	1.00E+00	125.25	0.00	0.00			
02	U-238	MBL	06/29/15 00:00	1.00E+00	104.48	0.00	0.00			
03	U-238	DUP	06/17/15 13:14	1.02E+00	87.64	0.00	0.00			
04	U-238	DO	06/17/15 13:14	1.02E+00	97.36	0.00	0.00			
05	U-238	TRG	06/17/15 13:00	1.11E+00	105.77	0.00	0.00			
06	U-238	TRG	06/22/15 10:07	1.06E+00	106.87	0.00	0.00			
07	U-238	TRG	06/22/15 10:15	1.03E+00	102.10	0.00	0.00			
08	U-238	TRG	06/22/15 11:04	9.00E-01	94.92	0.00	0.00			
09	U-238	TRG	06/22/15 11:20	1.05E+00	105.50	0.00	0.00			
10	U-238	TRG	06/22/15 11:30	1.05E+00	132.92	0.00	0.00			
11	U-238	TRG	06/22/15 12:47	1.05E+00	101.26	0.00	0.00			
12	U-238	TRG	06/22/15 12:56	1.08E+00	101.52	0.00	0.00			
13	U-238	TRG	06/22/15 13:04	5.17E-01	119.38	0.00	0.00			
14	U-238	TRG	06/22/15 14:56	1.05E+00	102.26	0.00	0.00			
15	U-238	TRG	06/22/15 15:03	5.11E-01	93.62	0.00	0.00			
16	U-238	TRG	06/12/15 14:15	6.02E-01	117.50	0.00	0.00			
17	U-238	TRG	06/12/15 14:32	6.51E-01	97.79	0.00	0.00			
18	U-238	TRG	06/12/15 14:51	1.11E+00	65.56	0.00	0.00			
19	U-238	TRG	06/12/15 14:58	1.15E+00	104.31	0.00	0.00			
20	U-238	TRG	06/11/15 08:55	2.68E-01	105.44	0.00	0.00			

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	07/09/15 08:45		A_Spec	Alpha_003	170.03	5.61 E+02	3.00 E-03	17.4
02	U-238	MBL	07/09/15 08:45		A_Spec	Alpha_004	170.02	1.15 E+00	5.00 E-03	18.9
03	U-238	DUP	07/09/15 08:45		A_Spec	Alpha_010	170.02	1.53 E+01	4.00 E-03	19.2
04	U-238	DO	07/09/15 08:45		A_Spec	Alpha_011	170.02	2.07 E+01	2.00 E-03	20
05	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_012	170	3.49 E+00	3.00 E-03	19.4
06	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_014	170.02	2.90 E+01	6.00 E-03	18.4
07	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_015	170.02	7.20 E+01	0.00 E+00	23.5
08	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_033	170	2.17 E+01	2.00 E-03	18
09	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_034	170	2.17 E+01	2.00 E-03	17.9
10	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_035	170	2.57 E+01	2.00 E-03	16.5
11	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_036	170	1.50 E+01	0.00 E+00	18.1
12	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_037	170	7.66 E+00	2.00 E-03	17.1
13	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_038	170	1.07 E+01	2.00 E-03	16.2
14	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_039	170	1.00 E+01	0.00 E+00	19.3
15	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_040	170	1.58 E+01	1.00 E-03	18.6
16	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_041	170	1.82 E+02	1.80 E-02	18.7
17	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_042	170	1.15 E+01	3.00 E-03	17.4
18	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_043	170	2.25 E+01	3.00 E-03	20
19	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_044	170	7.83 E+00	1.00 E-03	18.4
20	U-238	TRG	07/09/15 08:45		A_Spec	Alpha_046	170	2.71 E+01	1.10 E-02	17.8

Eberline Services
Oak Ridge Laboratory

Preliminary Data Report & Analytical Calculations

Work Order: 15-06114-UUISO-1

Printed: 7/9/2015 2:15 PM

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	5.78E-01	1.94E-01	7.88E-02					OK	
02	U-235	MBL	BLANK	pCi/g	-1.13E-02	3.43E-02	9.34E-02					OK	OK
03	U-235	DUP	FEEBRIS1D-09.099-100	pCi/g	1.27E-01	1.01E-01	9.15E-02				NA	OK	
04	U-235	DO	FEEBRIS1D-09.099-100	pCi/g	2.74E-02	4.65E-02	7.90E-02					OK	
05	U-235	TRG	FEEBRIS1D-09.078-079	pCi/g	5.51E-02	5.69E-02	6.00E-02					OK	
06	U-235	TRG	FEEBRIS1D-01.007-009	pCi/g	3.91E-02	5.43E-02	8.24E-02					OK	
07	U-235	TRG	FEEBRIS1D-01.024-027	pCi/g	7.99E-02	6.95E-02	7.98E-02					OK	
08	U-235	TRG	FEEBRIS1D-02.027-030	pCi/g	7.78E-02	8.44E-02	1.02E-01					OK	
09	U-235	TRG	FEEBRIS1D-02.020-023	pCi/g	4.66E-02	5.64E-02	6.87E-02					OK	
10	U-235	TRG	FEEBRIS1D-02.036-037	pCi/g	4.27E-02	5.60E-02	8.54E-02					OK	
11	U-235	TRG	FEEBRIS1D-18.013-014	pCi/g	4.81E-02	5.82E-02	7.09E-02					OK	
12	U-235	TRG	FEEBRIS1D-18.038-041	pCi/g	4.95E-02	5.99E-02	7.30E-02					OK	
13	U-235	TRG	FEEBRIS1D-18.044-046	pCi/g	1.20E-01	1.30E-01	1.57E-01					OK	
14	U-235	TRG	FEEBRIS1D-17.030-031	pCi/g	2.88E-02	4.41E-02	6.57E-02					OK	
15	U-235	TRG	FEEBRIS1D-17.033-036	pCi/g	3.69E-02	1.02E-01	2.21E-01					INV	
16	U-235	TRG	FEEBRIS1D-13.093-094	pCi/g	3.13E-01	1.78E-01	1.18E-01					OK	
17	U-235	TRG	FEEBRIS1D-13.085-086	pCi/g	5.92E-02	1.01E-01	1.78E-01					OK	
18	U-235	TRG	FEEBRIS1D-14.082-084	pCi/g	2.22E-02	6.54E-02	1.42E-01					OK	
19	U-235	TRG	FEEBRIS1D-14.054-056	pCi/g	1.23E-02	2.96E-02	6.20E-02					OK	
20	U-235	TRG	FEEBRIS1D-09.088-089	pCi/g	-6.80E-02	1.49E-01	5.09E-01					INV	

Work Order: 15-06114-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06114
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	06/29/15 00:00	1.00E+00	125.25	0.00	0.00			
02	U-235	MBL	06/29/15 00:00	1.00E+00	104.48	0.00	0.00			
03	U-235	DUP	06/17/15 13:14	1.02E+00	87.64	0.00	0.00			
04	U-235	DO	06/17/15 13:14	1.02E+00	97.36	0.00	0.00			
05	U-235	TRG	06/17/15 13:00	1.11E+00	105.77	0.00	0.00			
06	U-235	TRG	06/22/15 10:07	1.06E+00	106.87	0.00	0.00			
07	U-235	TRG	06/22/15 10:15	1.03E+00	102.10	0.00	0.00			
08	U-235	TRG	06/22/15 11:04	9.00E-01	94.92	0.00	0.00			
09	U-235	TRG	06/22/15 11:20	1.05E+00	105.50	0.00	0.00			
10	U-235	TRG	06/22/15 11:30	1.05E+00	132.92	0.00	0.00			
11	U-235	TRG	06/22/15 12:47	1.05E+00	101.26	0.00	0.00			
12	U-235	TRG	06/22/15 12:56	1.08E+00	101.52	0.00	0.00			
13	U-235	TRG	06/22/15 13:04	5.17E-01	119.38	0.00	0.00			
14	U-235	TRG	06/22/15 14:56	1.05E+00	102.26	0.00	0.00			
15	U-235	TRG	06/22/15 15:03	5.11E-01	93.62	0.00	0.00			
16	U-235	TRG	06/12/15 14:15	6.02E-01	117.50	0.00	0.00			
17	U-235	TRG	06/12/15 14:32	6.51E-01	97.79	0.00	0.00			
18	U-235	TRG	06/12/15 14:51	1.11E+00	65.56	0.00	0.00			
19	U-235	TRG	06/12/15 14:58	1.15E+00	104.31	0.00	0.00			
20	U-235	TRG	06/11/15 08:55	2.68E-01	105.44	0.00	0.00			

Work Order: 15-06114-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	07/09/15 08:45		A_Spec	Alpha_003	170.03	3.85 E+01	3.00 E-03	17.4
02	U-235	MBL	07/09/15 08:45		A_Spec	Alpha_004	170.02	-6.80 E-01	4.00 E-03	18.9
03	U-235	DUP	07/09/15 08:45		A_Spec	Alpha_010	170.02	6.66 E+00	2.00 E-03	19.2
04	U-235	DO	07/09/15 08:45		A_Spec	Alpha_011	170.02	1.66 E+00	2.00 E-03	20
05	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_012	170	3.83 E+00	1.00 E-03	19.4
06	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_014	170.02	2.49 E+00	3.00 E-03	18.4
07	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_015	170.02	6.00 E+00	0.00 E+00	23.5
08	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_033	170	3.66 E+00	2.00 E-03	18
09	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_034	170	2.83 E+00	1.00 E-03	17.9
10	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_035	170	3.00 E+00	0.00 E+00	16.5
11	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_036	170	2.83 E+00	1.00 E-03	18.1
12	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_037	170	2.83 E+00	1.00 E-03	17.1
13	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_038	170	3.66 E+00	2.00 E-03	16.2
14	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_039	170	1.83 E+00	1.00 E-03	19.3
15	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_040	170	1.00 E+00	0.00 E+00	18.6
16	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_041	170	1.27 E+01	2.00 E-03	18.7
17	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_042	170	2.00 E+00	0.00 E+00	17.4
18	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_043	170	9.80 E-01	6.00 E-03	20
19	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_044	170	8.30 E-01	1.00 E-03	18.4
20	U-235	TRG	07/09/15 08:45		A_Spec	Alpha_046	170	-1.04 E+00	1.20 E-02	17.8

Count Room Report
Client: AMO Environmental Decisio

15-06114-UUISO-1 (pCi/g) in SO
Tracer ID: U-10a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/29/15 00:00	1.0000	0.6087	11.3827		0.00		
02	MBL	BLANK	06/29/15 00:00	1.0000	0.6064	11.3397		0.00		
03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	1.0164	0.6061	11.3341		0.00		
04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	1.0164	0.6044	11.3023		0.00		
05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	1.1124	0.6039	11.2929		0.00		
06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	1.0600	0.6030	11.2761		0.00		
07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	1.0260	0.6031	11.2780		0.00		
08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	0.9000	0.6025	11.2668		0.00		
09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	1.0540	0.6018	11.2537		0.00		
10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	1.0500	0.6027	11.2705		0.00		
11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	1.0540	0.6006	11.2312		0.00		
12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	1.0800	0.6023	11.2630		0.00		
13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	0.5170	0.6023	11.2630		0.00		
14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	1.0512	0.6003	11.2256		0.00		
15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	0.5112	0.6005	11.2294		0.00		
16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	0.6020	0.5987	11.1957		0.00		
17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	0.6510	0.5994	11.2088		0.00		
18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	1.1060	0.5980	11.1826		0.00		
19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	1.1500	0.5985	11.1920		0.00		
20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	0.2676	0.5996	11.2125		0.00		

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06114	1	UUISO	6/30/2015 9:47	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
U-234	U-8a	35.240	6/30/2015	0.500	0.5098				8.09	0.291	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	6/30/2015	0.500	0.5098				7.89	0.284	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	U-232	U-10a	18.700	6/30/2015	0.6087	0.6500
02	U-232	U-10a	18.700	6/30/2015	0.6064	0.6500
03	U-232	U-10a	18.700	6/30/2015	0.6061	0.6500
04	U-232	U-10a	18.700	6/30/2015	0.6044	0.6500
05	U-232	U-10a	18.700	6/30/2015	0.6039	0.6500
06	U-232	U-10a	18.700	6/30/2015	0.6030	0.6500
07	U-232	U-10a	18.700	6/30/2015	0.6031	0.6500
08	U-232	U-10a	18.700	6/30/2015	0.6025	0.6500
09	U-232	U-10a	18.700	6/30/2015	0.6018	0.6500
10	U-232	U-10a	18.700	6/30/2015	0.6027	0.6500
11	U-232	U-10a	18.700	6/30/2015	0.6006	0.6500
12	U-232	U-10a	18.700	6/30/2015	0.6023	0.6500
13	U-232	U-10a	18.700	6/30/2015	0.6023	0.6500
14	U-232	U-10a	18.700	6/30/2015	0.6003	0.6500
15	U-232	U-10a	18.700	6/30/2015	0.6005	0.6500
16	U-232	U-10a	18.700	6/30/2015	0.5987	0.6500
17	U-232	U-10a	18.700	6/30/2015	0.5994	0.6500
18	U-232	U-10a	18.700	6/30/2015	0.5980	0.6500
19	U-232	U-10a	18.700	6/30/2015	0.5985	0.6500
20	U-232	U-10a	18.700	6/30/2015	0.5996	0.6500

Balance Printer Tapes

Tracer

0.6087 g
0.6064 g
0.6061 g
0.6044 g
0.6039 g
0.6030 g
0.6031 g
0.6025 g
0.6018 g
0.6027 g
0.6006 g
0.6023 g
0.6023 g
0.6003 g
0.6005 g
0.5987 g
0.5994 g
0.5980 g
0.5985 g
0.5996 g

LCS

0.5098 g

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/6/2015 6:46 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06114	1	UUISO	grams	7/21/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-09.099-100	DUP		1	11.81	8.47E-02	1.2000E+01	1.0164E+00				
04	FEEBRIS1D-09.099-100	DO		1	11.81	8.47E-02	1.2000E+01	1.0164E+00				
05	FEEBRIS1D-09.078-079	TRG		1	10.79	9.27E-02	1.2000E+01	1.1124E+00				
06	FEEBRIS1D-01.007-009	TRG		1	18.87	5.30E-02	2.0000E+01	1.0600E+00				
07	FEEBRIS1D-01.024-027	TRG		1	11.70	8.55E-02	1.2000E+01	1.0260E+00				
08	FEEBRIS1D-02.027-030	TRG		1	13.33	7.50E-02	1.2000E+01	9.0000E-01				
09	FEEBRIS1D-02.020-023	TRG		1	18.98	5.27E-02	2.0000E+01	1.0540E+00				
10	FEEBRIS1D-02.036-037	TRG		1	19.05	5.25E-02	2.0000E+01	1.0500E+00				
11	FEEBRIS1D-18.013-014	TRG		1	18.98	5.27E-02	2.0000E+01	1.0540E+00				
12	FEEBRIS1D-18.038-041	TRG		1	18.52	5.40E-02	2.0000E+01	1.0800E+00				
13	FEEBRIS1D-18.044-046	TRG		1	19.34	5.17E-02	1.0000E+01	5.1700E-01				
14	FEEBRIS1D-17.030-031	TRG		1	11.42	8.76E-02	1.2000E+01	1.0512E+00				
15	FEEBRIS1D-17.033-036	TRG		1	11.74	8.52E-02	6.0000E+00	5.1120E-01				
16	FEEBRIS1D-13.093-094	TRG		1	16.61	6.02E-02	1.0000E+01	6.0200E-01				
17	FEEBRIS1D-13.085-086	TRG		1	15.36	6.51E-02	1.0000E+01	6.5100E-01				
18	FEEBRIS1D-14.082-084	TRG		1	18.08	5.53E-02	2.0000E+01	1.1060E+00				
19	FEEBRIS1D-14.054-056	TRG		1	17.39	5.75E-02	2.0000E+01	1.1500E+00				
20	FEEBRIS1D-09.088-089	TRG		1	11.21	8.92E-02	3.0000E+00	2.6760E-01				

Comments	

Technician: JWOLFE Date: 7/16/15

EBERLINE SERVICES

	Internal Work Order	15-06114
	Fraction	**> 03 <**
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.47**	ml	from the original sample and diluted it to	**100**	ml	0.0847
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0847**
Dilution Factor	**11.80637544**

Diluted by: JW Date: 7/6/15

1-06114

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.47**	ml	from the original sample and diluted it to	**100**	ml	0.0847
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0847**
Dilution Factor	**11.80637544**

Diluted by: JW Date: 7/6/15

55000

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 05 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**9.27**	ml	from the original sample and diluted it to	**100**	ml	0.0927
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0927**
Dilution Factor	**10.78748652**

Diluted by: JW Date: 7/6/15

95000

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 06 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.3**	ml	from the original sample and diluted it to	**100**	ml	0.0530
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.053**
Dilution Factor	**18.86792453**

Diluted by: JW Date: 7/6/15

15000

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 07 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.55**	ml	from the original sample and diluted it to	**100**	ml	0.0855
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0855**
Dilution Factor	**11.69590643**

Diluted by: JW Date: 7/6/15

95000

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 08 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.5**	ml	from the original sample and diluted it to	**100**	ml	0.0750
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.075**
Dilution Factor	**13.33333333**

Diluted by: JW

Date: 7/6/15

66000

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 09 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.27**	ml	from the original sample and diluted it to	**100**	ml	0.0527
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0527**
Dilution Factor	**18.97533207**

Diluted by: JW Date: 7/6/15

00100

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 10 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.25**	ml	from the original sample and diluted it to	**100**	ml	0.0525
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0525**
Dilution Factor	**19.04761905**

Diluted by: JW Date: 7/6/15

15-06114

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 11 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.27**	ml	from the original sample and diluted it to	**100**	ml	0.0527
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0527**
Dilution Factor	**18.97533207**

Diluted by: JW

Date: 7/6/15

: 00102

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 12 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.4**	ml	from the original sample and diluted it to	**100**	ml	0.0540
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.054**
Dilution Factor	**18.51851852**

Diluted by: JW

Date: 7/6/15

00103

EBERLINE SERVICES

	Internal Work Order	15-06114
	Fraction	**> 13 <**
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.17**	ml	from the original sample and diluted it to	**100**	ml	0.0517
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0517**
Dilution Factor	**19.34235977**

Diluted by: JW Date: 7/6/15

15-06114

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 14 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.76**	ml	from the original sample and diluted it to	**100**	ml	0.0876
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0876**
Dilution Factor	**11.41552511**

Diluted by: JW Date: 7/6/15

: 00105

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 15 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.52**	ml	from the original sample and diluted it to	**100**	ml	0.0852
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0852**
Dilution Factor	**11.7370892**

Diluted by: JW Date: 7/6/15

90106

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 16 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.02**	ml	from the original sample and diluted it to	**100**	ml	0.0602
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0602**
Dilution Factor	**16.61129568**

Diluted by: JW

Date: 7/6/15

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 17 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.51**	ml	from the original sample and diluted it to	**100**	ml	0.0651
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0651**
Dilution Factor	**15.3609831**

Diluted by: JW Date: 7/6/15

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 18 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.53**	ml	from the original sample and diluted it to	**100**	ml	0.0553
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0553**
Dilution Factor	**18.08318264**

Diluted by: JW Date: 7/6/15

00109

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 19 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.75**	ml	from the original sample and diluted it to	**100**	ml	0.0575
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0575**
Dilution Factor	**17.39130435**

Diluted by: JW Date: 7/16/15

00110

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 20 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.92**	ml	from the original sample and diluted it to	**100**	ml	0.0892
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0892**
Dilution Factor	**11.21076233**

Diluted by: JW Date: 7/6/15

: 00111

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation
Log Book

Printed: 7/1/2015 7:40 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06114	7/21/2015	6/30/2015	7/1/2015	7/2/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-09.099-100	14.6600	990.3400	828.9400	975.6800	814.2800	16.54%	83.46%	0.0000	0.0000	
05	FEEBRIS1D-09.078-079	29.1700	1004.4800	638.9900	975.3100	609.8200	37.47%	62.53%	0.0000	0.0000	
06	FEEBRIS1D-01.007-009	14.5600	1034.2600	885.2800	1019.7000	870.7200	14.61%	85.39%	0.0000	0.0000	
07	FEEBRIS1D-01.024-027	29.2800	1309.7200	1145.4400	1280.4400	1116.1600	12.83%	87.17%	0.0000	0.0000	
08	FEEBRIS1D-02.027-030	29.1500	1152.4200	752.3900	1123.2700	723.2400	35.61%	64.39%	0.0000	0.0000	
09	FEEBRIS1D-02.020-023	14.5900	1088.3800	886.5800	1073.7900	871.9900	18.79%	81.21%	0.0000	0.0000	
10	FEEBRIS1D-02.036-037	14.5900	1156.8000	911.6000	1142.2100	897.0100	21.47%	78.53%	0.0000	0.0000	
11	FEEBRIS1D-18.013-014	43.6400	1535.5000	1248.2800	1491.8600	1204.6400	19.25%	80.75%	0.0000	0.0000	
12	FEEBRIS1D-18.038-041	29.2000	1081.7200	614.8200	1052.5200	585.6200	44.36%	55.64%	0.0000	0.0000	
13	FEEBRIS1D-18.044-046	28.9300	1529.9800	1252.6200	1501.0500	1223.6900	18.48%	81.52%	0.0000	0.0000	
14	FEEBRIS1D-17.030-031	28.8500	1325.7200	945.0200	1296.8700	916.1700	29.36%	70.64%	0.0000	0.0000	
15	FEEBRIS1D-17.033-036	28.8600	1329.3400	1008.8000	1300.4800	979.9400	24.65%	75.35%	0.0000	0.0000	
16	FEEBRIS1D-13.093-094	28.8100	1311.9000	1129.2200	1283.0900	1100.4100	14.24%	85.76%	0.0000	0.0000	
17	FEEBRIS1D-13.085-086	28.8900	1816.0000	1573.8600	1787.1100	1544.9700	13.55%	86.45%	0.0000	0.0000	
18	FEEBRIS1D-14.082-084	28.8300	1674.0500	1494.0600	1645.2200	1465.2300	10.94%	89.06%	0.0000	0.0000	
19	FEEBRIS1D-14.054-056	43.4300	1332.9000	860.9000	1289.4700	817.4700	36.60%	63.40%	0.0000	0.0000	
20	FEEBRIS1D-09.088-089	28.7700	1476.6200	1196.4600	1447.8500	1167.6900	19.35%	80.65%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

Technician: Kerry Seely

Date: **Analysis: Rough Prep Logbook**

Analysis: UUISO Page No. 9332

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 7/1/2015 9:30 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-06114	grams	7/21/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare	Muffle Data		Muffle Calculations		
Fraction	Client ID	Crucible Wt	Pre Wt/Vol	Post Wt/Vol	Pre Net Wt/Vol	Post-Net Wt/Vol	Ratio Post/Pre
04	FEEBRIS1D-09.099-100	97.9500	106.4200		8.4700		
05	FEEBRIS1D-09.078-079	109.6200	118.8900		9.2700		
06	FEEBRIS1D-01.007-009	105.3300	110.6300		5.3000		
07	FEEBRIS1D-01.024-027	107.4700	116.0200		8.5500		
08	FEEBRIS1D-02.027-030	108.2800	115.7800		7.5000		
09	FEEBRIS1D-02.020-023	110.7900	116.0600		5.2700		
10	FEEBRIS1D-02.036-037	111.3500	116.6000		5.2500		
11	FEEBRIS1D-18.013-014	103.5800	108.8500		5.2700		
12	FEEBRIS1D-18.038-041	108.9900	114.3900		5.4000		
13	FEEBRIS1D-18.044-046	104.1300	109.3000		5.1700		
14	FEEBRIS1D-17.030-031	108.3800	117.1400		8.7600		
15	FEEBRIS1D-17.033-036	112.0200	120.5400		8.5200		
16	FEEBRIS1D-13.093-094	111.8700	117.8900		6.0200		
17	FEEBRIS1D-13.085-086	101.9700	108.4800		6.5100		
18	FEEBRIS1D-14.082-084	109.3200	114.8500		5.5300		
19	FEEBRIS1D-14.054-056	110.8000	116.5500		5.7500		
20	FEEBRIS1D-09.088-089	111.2700	120.1900		8.9200		

Comments

Technician: Kenny Sey Date: 7/1/15

Analysis: UUISO

00113

Apex-Alpha™

VCB 7/9/15

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_003
Chamber Serial Number:
Detector Serial Number: 3
Env. Background: System Bkgd 122497
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/9/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:23 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.609 mL
Effective Efficiency: 0.2182 +/- 0.0118
Counting Efficiency: 0.1742 +/- 0.0031 on 10/25/2014 6:43:48 PM
Chem. Recovery Factor: 1.2525 +/- 0.0712

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 0.840623 +/- 0.062918
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

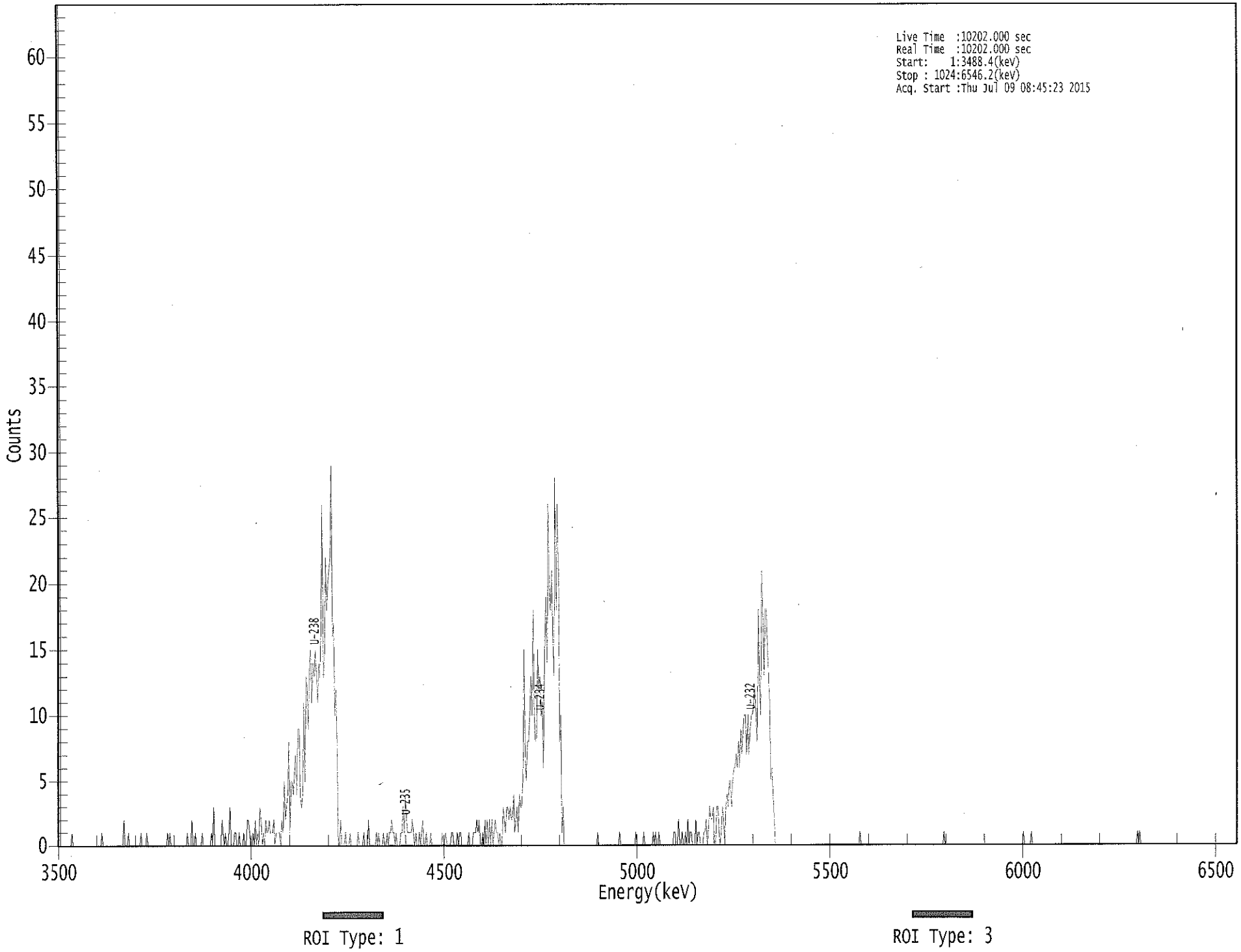
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.284	419.32	9.58	0.68	0.00E+000	24.0
U-234		4.740	520.32	8.60	0.68	0.00E+000	13.4
U-235		4.390	38.49	31.84	0.51	0.00E+000	5.0
U-238		4.155	561.49	8.28	0.51	0.00E+000	24.8

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	5.10E+000 +/- 5.40E-001	6.86E-002 +/- 7.27E-003
U-234	0.997	4761.50*	6.33E+000 +/- 8.64E-001	6.86E-002 +/- 7.27E-003
U-235	1.000	4385.50*	5.78E-001 +/- 1.94E-001	7.88E-002 +/- 8.34E-003
U-238	0.994	4184.40*	6.80E+000 +/- 9.14E-001	6.36E-002 +/- 6.73E-003

0000122486.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10202
Elapsed Real Time: 10202

Channel								
1:	10202	10202	0	0	0	0	0	0
9:	0	0	0	0	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	1	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	2	0	0	0	1	0	0
65:	0	0	0	0	0	0	0	0
73:	1	0	0	0	0	1	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	1
97:	0	1	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	1	0	0	0	2	0	0	1
121:	0	0	0	0	0	1	0	0
129:	0	0	0	0	0	1	0	3
137:	0	0	0	0	0	0	2	1
145:	0	1	0	0	1	3	0	0
153:	0	1	1	0	0	1	0	0
161:	0	1	0	0	2	2	1	0
169:	0	1	0	2	0	1	0	3
177:	2	0	1	0	2	1	1	2
185:	1	1	1	2	0	1	1	1
193:	1	0	2	1	5	2	3	4
201:	8	1	5	5	4	6	7	4
209:	9	9	4	3	4	11	5	13
217:	12	9	14	15	11	14	13	15
225:	13	11	14	13	17	26	13	14
233:	22	18	20	21	22	29	16	17
241:	10	12	7	0	0	2	0	0
249:	0	1	0	0	0	1	0	0
257:	0	0	0	0	1	0	0	0
265:	0	1	0	0	0	2	0	0
273:	0	0	0	0	1	0	1	0
281:	0	0	1	0	0	1	0	1
289:	1	2	1	1	0	1	0	0
297:	0	1	1	3	1	4	2	1
305:	1	1	1	2	1	0	1	0
313:	0	1	0	1	2	0	0	1
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	1	0	0
337:	1	0	0	0	0	1	1	0
345:	0	0	1	0	1	1	0	0
353:	0	0	0	0	1	0	0	0
361:	1	1	1	2	1	2	0	0

369:	1	0	2	0	2	0	2	0

Sample Title: 01

Channel								
377:	2	0	1	2	1	1	0	1
385:	0	0	3	2	1	3	3	2
393:	3	2	2	4	1	2	3	1
401:	4	3	3	5	15	7	5	8
409:	8	10	13	10	18	10	8	8
417:	15	12	13	10	11	6	14	19
425:	14	26	19	18	21	16	13	28
433:	18	26	21	8	10	1	3	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	1	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	1
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	1	0	0
505:	0	0	0	0	1	0	0	0
513:	0	0	0	0	1	0	1	0
521:	0	1	0	0	0	0	0	0
529:	0	0	0	0	0	0	1	1
537:	0	0	2	0	0	1	0	0
545:	1	0	2	0	1	1	0	0
553:	0	2	0	1	1	0	0	0
561:	1	1	2	0	1	3	2	2
569:	3	0	0	3	3	1	0	1
577:	3	2	0	3	4	3	5	5
585:	3	5	6	6	7	6	8	6
593:	9	7	9	10	10	7	10	7
601:	9	10	10	11	12	10	8	18
609:	13	10	21	17	13	18	18	15
617:	13	11	5	6	4	2	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	1
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	1	0	0
841:	0	0	0	0	1	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	1	0	1	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

MB 7/9/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_004
Chamber Serial Number:
Detector Serial Number: 4
Env. Background: System Bkgd 122498
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/9/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:24 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.606 mL
Effective Efficiency: 0.1977 +/- 0.0111
Counting Efficiency: 0.1892 +/- 0.0033 on 10/25/2014 6:43:53 PM
Chem. Recovery Factor: 1.0448 +/- 0.0616

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

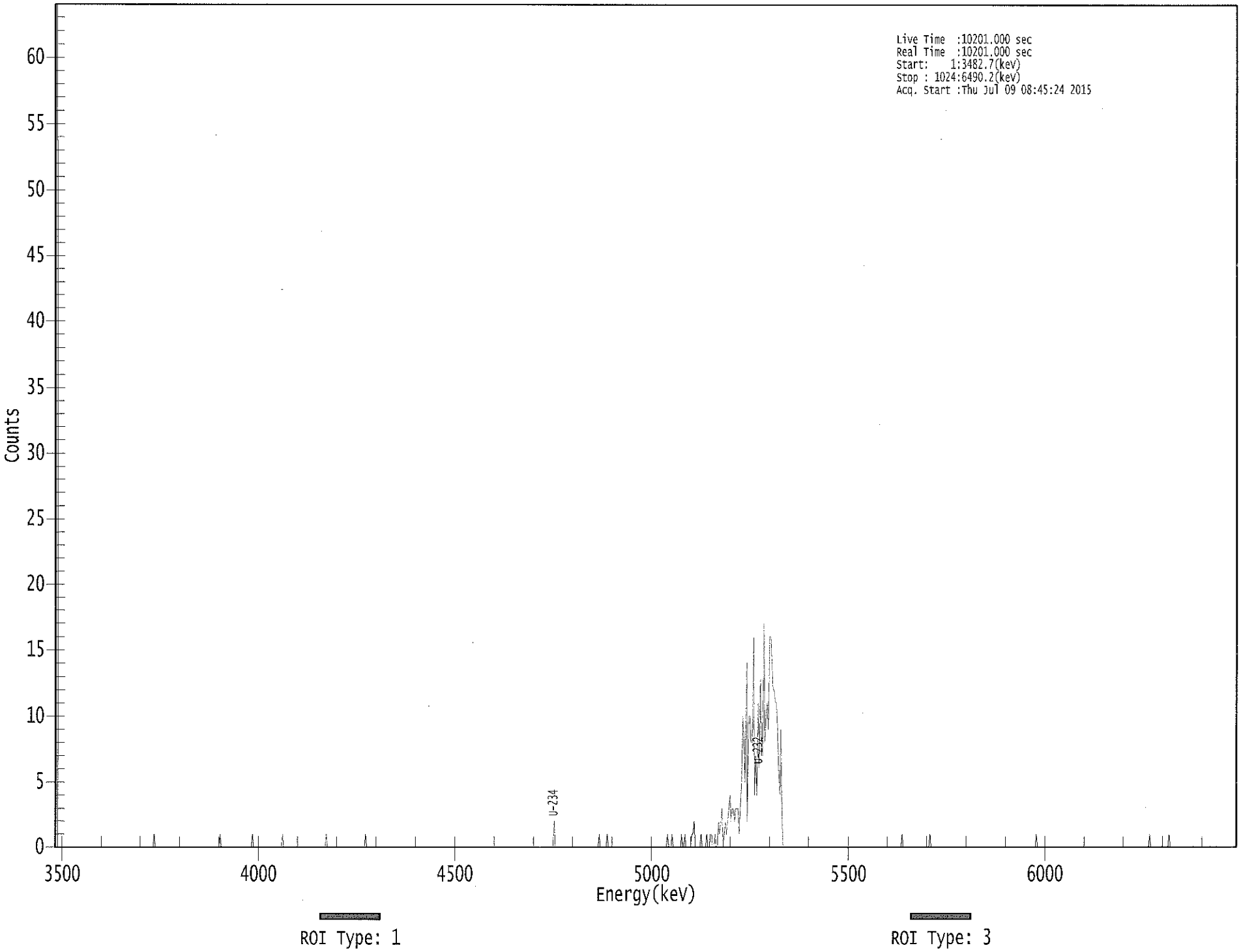
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.272	378.49	10.08	0.51	0.00E+000	5.3
U-234		4.753	0.64	457.53	1.36	0.00E+000	2.9
U-235		4.397	-0.68	304.42	0.68	0.00E+000	0.0
U-238		4.118	1.15	249.60	0.85	0.00E+000	2.9

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.993	5302.50*	5.08E+000 +/- 5.61E-001	7.05E-002 +/- 7.78E-003
U-234	0.999	4761.50*	8.59E-003 +/- 3.93E-002	9.21E-002 +/- 1.02E-002
U-235	0.999	4385.50*	-1.13E-002 +/- 3.43E-002	9.34E-002 +/- 1.03E-002
U-238	0.969	4184.40*	1.54E-002 +/- 3.84E-002	8.01E-002 +/- 8.84E-003

0000122487.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10201
Elapsed Real Time: 10201

Channel								
1:	10201	10201	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	1	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	1
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	1	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	1	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	1	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	2	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	1	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	1	0	0	0	1	0
537:	0	0	0	0	0	0	1	0
545:	0	1	0	0	0	0	0	1
553:	1	2	0	0	0	0	0	1
561:	0	0	0	0	1	0	0	1
569:	1	0	0	1	0	0	2	1
577:	2	3	0	1	2	1	2	3
585:	4	2	3	3	2	3	3	3
593:	1	3	5	10	8	5	14	2
601:	10	10	8	8	16	4	7	4
609:	11	6	13	7	7	17	8	10
617:	11	9	16	16	14	12	12	11
625:	11	9	6	4	9	2	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	1	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	1	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	1	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	1	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	1	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-09.099-100-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_010
Chamber Serial Number:
Detector Serial Number: 10
Env. Background: System Bkgd 122499
Reagent Blank: <not performed>

Sample Size: 1.016E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/17/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:25 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.606 mL
Effective Efficiency: 0.1683 +/- 0.0102
Counting Efficiency: 0.1921 +/- 0.0033 on 10/25/2014 6:44:30 PM
Chem. Recovery Factor: 0.8764 +/- 0.0551

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

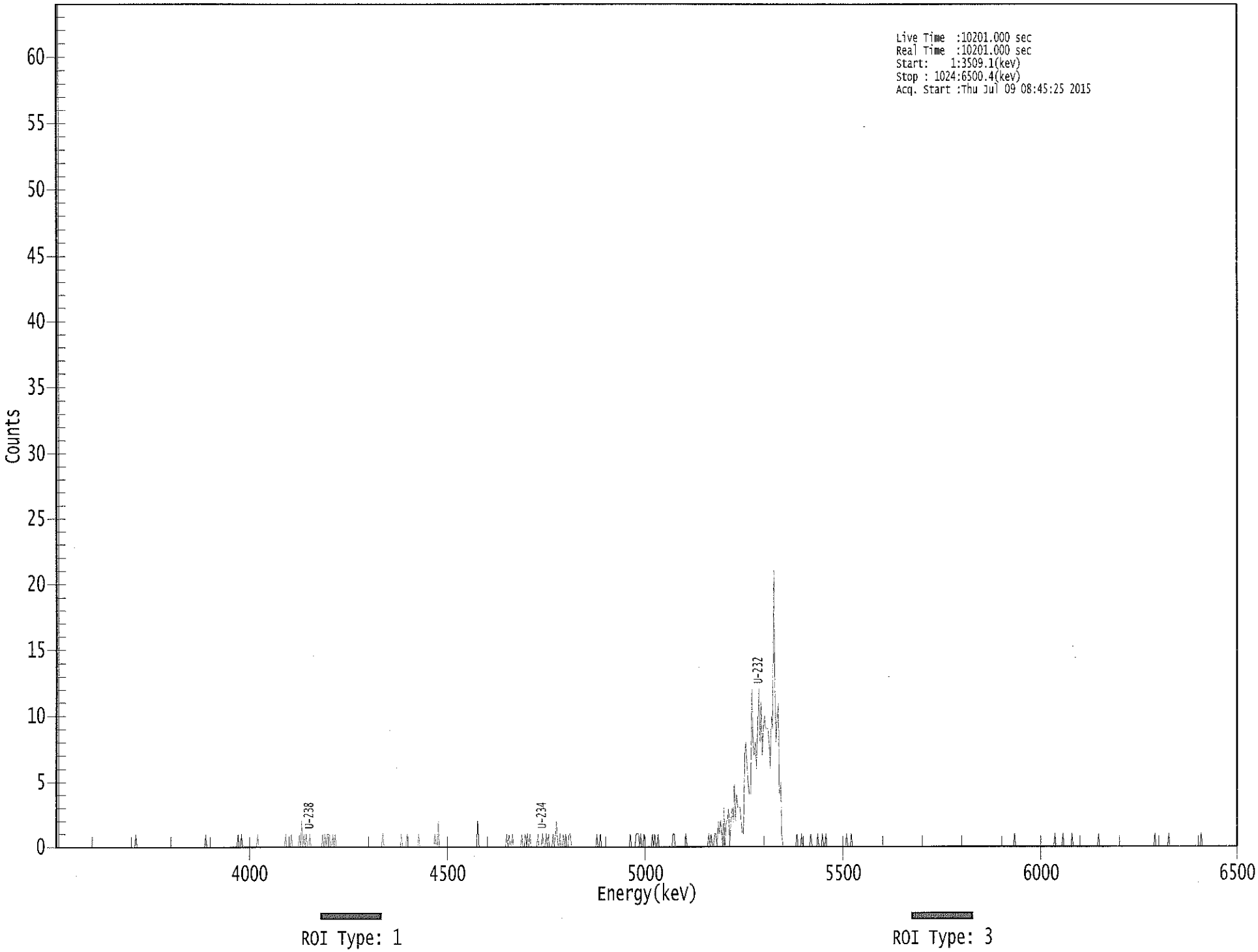
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.287	322.13	10.96	1.87	0.00E+000	6.6
U-234		4.741	17.79	49.73	2.21	0.00E+000	4.4
U-235		4.424	6.66	78.18	0.34	0.00E+000	2.9
U-238		4.153	15.32	51.36	0.68	0.00E+000	2.9

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	5.00E+000 +/- 5.93E-001	1.18E-001 +/- 1.39E-002
U-234	0.997	4761.50*	2.76E-001 +/- 1.41E-001	1.24E-001 +/- 1.47E-002
U-235	0.990	4385.50*	1.27E-001 +/- 1.01E-001	9.15E-002 +/- 1.08E-002
U-238	0.993	4184.40*	2.37E-001 +/- 1.25E-001	8.71E-002 +/- 1.03E-002

0000122488.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10201
Elapsed Real Time: 10201

Channel								
1:	10201	10201	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	1	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	1	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	1	0
161:	0	1	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	1
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	1
201:	0	0	0	0	1	0	0	0
209:	0	0	0	1	0	2	0	1
217:	0	1	0	0	1	0	0	0
225:	0	0	0	0	0	0	0	1
233:	0	1	0	1	1	1	0	0
241:	1	0	1	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	1	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	1	0	0	0	0
305:	1	0	0	0	0	0	0	0
313:	0	0	1	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	1	0	0	2	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	2	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	1	0
393:	1	0	0	1	0	0	0	0
401:	0	0	0	1	0	0	1	0
409:	1	0	1	0	0	0	0	0
417:	0	1	0	0	0	1	0	0
425:	1	0	1	0	0	0	1	0
433:	1	2	0	0	1	0	0	1
441:	0	1	0	0	1	1	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	1	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	1	0	0	0	0	1	1
505:	1	0	1	0	0	1	0	0
513:	0	0	0	0	1	0	1	0
521:	0	1	0	0	0	0	0	0
529:	0	0	0	0	0	0	1	1
537:	0	0	0	0	0	0	0	0
545:	0	1	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	1	0	1
569:	0	0	1	1	0	2	1	2
577:	1	0	3	0	2	2	3	0
585:	2	3	2	5	2	4	3	3
593:	3	2	1	1	7	8	6	5
601:	4	4	12	8	7	8	6	9
609:	12	8	11	7	9	10	9	9
617:	9	8	6	10	9	21	12	8
625:	10	11	4	5	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	1	0	0	0	1	0	0
649:	0	0	0	0	0	1	0	0
657:	0	0	0	1	0	0	0	1
665:	0	0	1	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	1	0	0	0
689:	1	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	1	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	1	0	0	0	0	0	0	1
873:	0	0	0	0	0	0	0	1
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	1	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	1
953:	0	0	0	0	0	0	0	0
961:	0	0	0	1	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	1
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/19/16

Sample Description: FEEBRIS1D-09.099-100
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_011
Chamber Serial Number:
Detector Serial Number: 11
Env. Background: System Bkgd 122500
Reagent Blank: <not performed>

Sample Size: 1.016E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/17/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:26 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1951 +/- 0.0111
Counting Efficiency: 0.2004 +/- 0.0035 on 10/25/2014 6:44:33 PM
Chem. Recovery Factor: 0.9736 +/- 0.0578

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

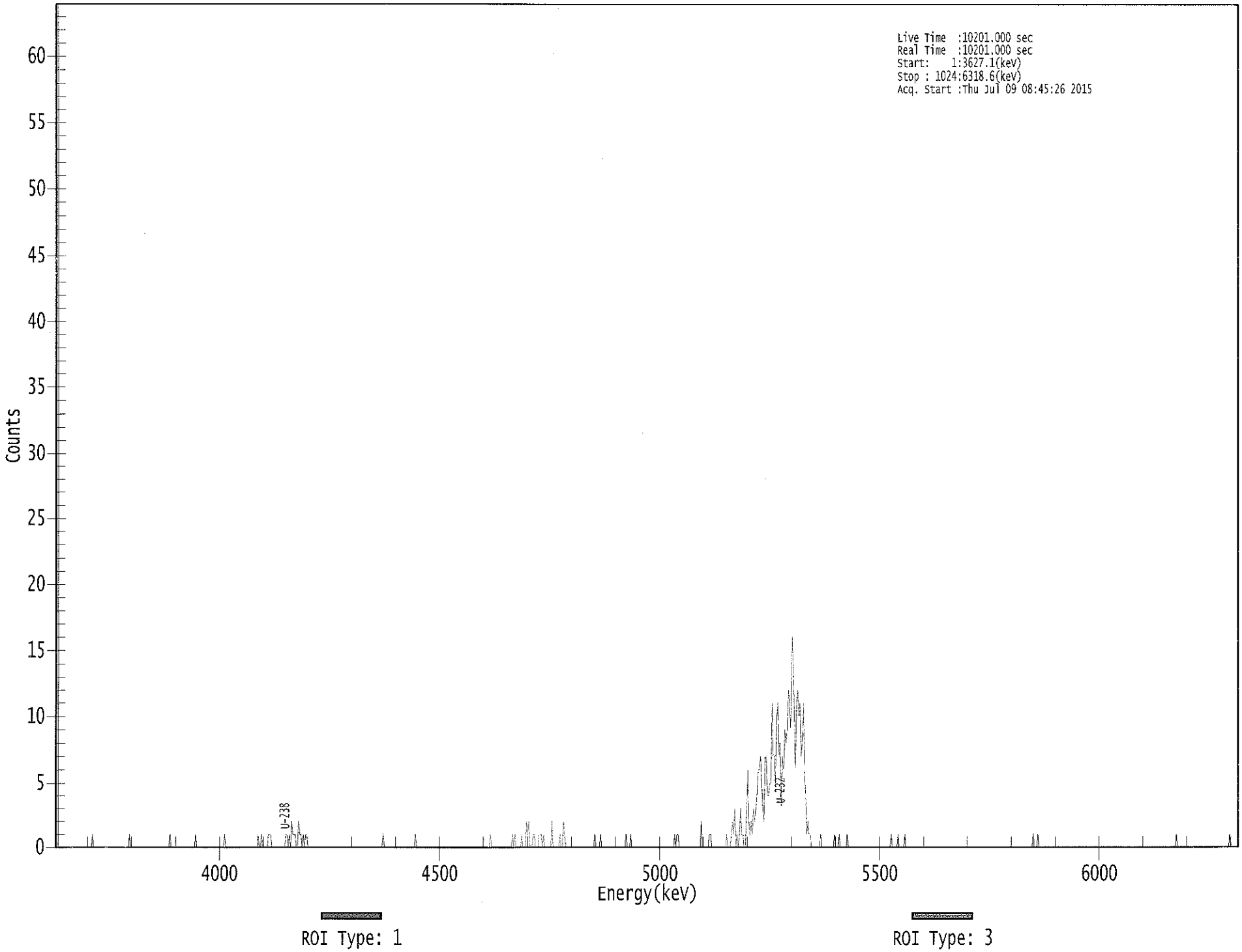
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.276	372.30	10.19	1.70	0.00E+000	19.7
U-234		4.721	19.30	46.86	1.70	0.00E+000	3.9
U-235		4.408	1.66	169.38	0.34	0.00E+000	2.6
U-238		4.150	20.66	43.53	0.34	0.00E+000	3.9

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	4.99E+000 +/- 5.56E-001	9.84E-002 +/- 1.10E-002
U-234	0.988	4761.50*	2.58E-001 +/- 1.24E-001	9.83E-002 +/- 1.10E-002
U-235	0.996	4385.50*	2.74E-002 +/- 4.65E-002	7.90E-002 +/- 8.80E-003
U-238	0.991	4184.40*	2.75E-001 +/- 1.24E-001	6.37E-002 +/- 7.10E-003

0000122489.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10201
Elapsed Real Time: 10201

Channel								
1:	10201	10201	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	1	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	1	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	1	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	1	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	1
177:	0	0	1	0	0	0	0	0
185:	1	1	1	0	0	0	0	0
193:	0	0	0	0	0	0	0	1
201:	1	0	1	0	2	1	1	1
209:	0	0	2	1	1	0	1	0
217:	1	1	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	1	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	1
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
377:	1	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	1	0	1	0	0
401:	0	0	0	1	0	0	0	2
409:	1	2	0	0	0	1	1	0
417:	0	0	1	1	1	0	1	0
425:	0	0	0	0	0	2	0	0
433:	0	0	0	0	1	0	0	2
441:	1	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	1	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	1	0	0
497:	0	1	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	1
537:	0	1	1	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	2	0
561:	0	0	0	0	0	1	1	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	1	0	0	0
585:	1	2	1	3	0	1	0	1
593:	3	1	1	0	0	2	6	2
601:	1	2	1	3	2	3	4	6
609:	6	7	5	3	2	7	7	4
617:	4	5	5	11	7	7	5	10
625:	11	7	8	3	7	6	9	8
633:	9	12	11	9	16	14	10	6
641:	11	12	10	11	7	8	11	6
649:	4	1	2	1	1	0	0	0
657:	0	0	0	0	0	1	0	0
665:	0	0	0	0	0	0	0	0
673:	0	1	0	0	0	1	0	0
681:	0	0	0	0	1	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	1	0	0	0	0	0
729:	1	0	0	0	0	0	1	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	1	0	0
849:	0	1	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	1	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	1
1017:	0	0	0	0	0	0	0	0

MB 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-09.078-079
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_012
Chamber Serial Number:
Detector Serial Number: 12
Env. Background: System Bkgd 122501
Reagent Blank: <not performed>

Sample Size: 1.112E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/17/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:27 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.2048 +/- 0.0114
Counting Efficiency: 0.1936 +/- 0.0034 on 10/25/2014 6:44:33 PM
Chem. Recovery Factor: 1.0577 +/- 0.0617

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

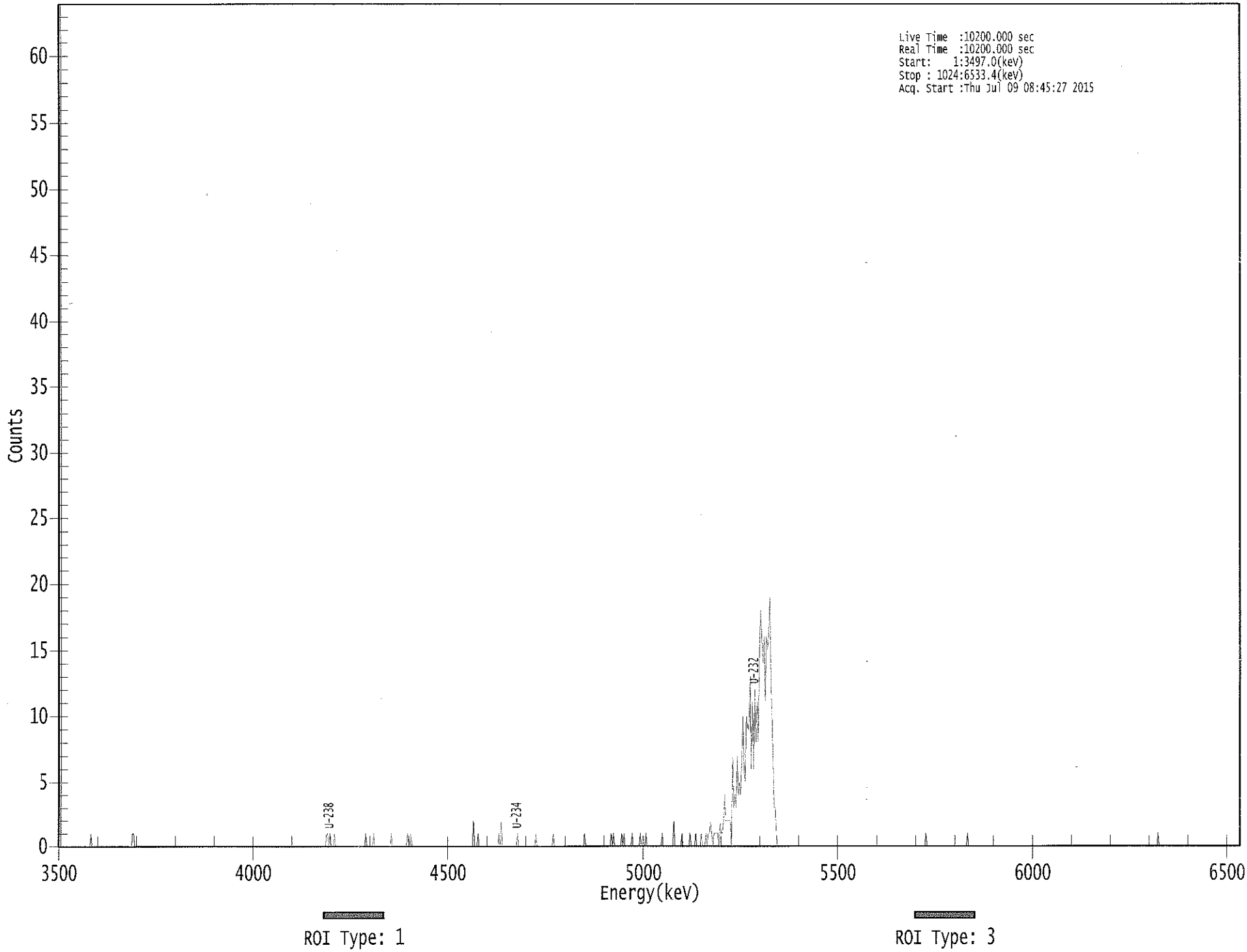
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.283	390.47	9.94	1.53	0.00E+000	35.5
U-234		4.677	5.49	88.08	0.51	0.00E+000	3.0
U-235		4.364	3.83	102.72	0.17	0.00E+000	3.0
U-238		4.194	3.49	113.53	0.51	0.00E+000	5.9

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.997	5302.50*	4.55E+000 +/- 4.97E-001	8.29E-002 +/- 9.05E-003
U-234	0.950	4761.50*	6.40E-002 +/- 5.68E-002	6.11E-002 +/- 6.68E-003
U-235	0.997	4385.50*	5.51E-002 +/- 5.69E-002	6.00E-002 +/- 6.55E-003
U-238	0.999	4184.40*	4.05E-002 +/- 4.62E-002	6.09E-002 +/- 6.65E-003

0000122490.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	10200	10200	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	1	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	1	1	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	1	1	0	1	0	0	0	1
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	1	0	0	0	0	0
273:	0	1	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	1	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	1	0
305:	0	1	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	2
361:	0	0	0	1	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
377:	0	0	0	0	0	1	0	2
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	1	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	1	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	1	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	1
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	1	0
481:	1	0	0	0	0	0	0	1
489:	0	1	0	0	0	0	0	0
497:	1	0	0	0	0	0	0	1
505:	0	0	0	0	1	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	1	0	0	0	0	0
529:	0	0	0	0	2	0	0	0
537:	0	0	0	1	0	0	0	0
545:	0	0	1	0	0	0	0	1
553:	0	0	0	0	1	0	0	0
561:	1	0	1	1	2	1	0	1
569:	1	1	1	0	2	1	1	2
577:	4	2	2	2	2	2	0	7
585:	3	4	3	7	4	5	4	7
593:	10	6	5	10	9	9	13	6
601:	11	6	12	8	11	8	15	18
609:	16	14	16	11	16	15	16	19
617:	13	10	7	3	3	1	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	1	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	1	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	1
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KD 7/9/15

Sample Description: FEEBRIS1D-01.007-009
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_014
Chamber Serial Number:
Detector Serial Number: 14
Env. Background: System Bkgd 122502
Reagent Blank: <not performed>

Sample Size: 1.060E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:28 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1967 +/- 0.0112
Counting Efficiency: 0.1840 +/- 0.0032 on 10/25/2014 6:45:28 PM
Chem. Recovery Factor: 1.0687 +/- 0.0635

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

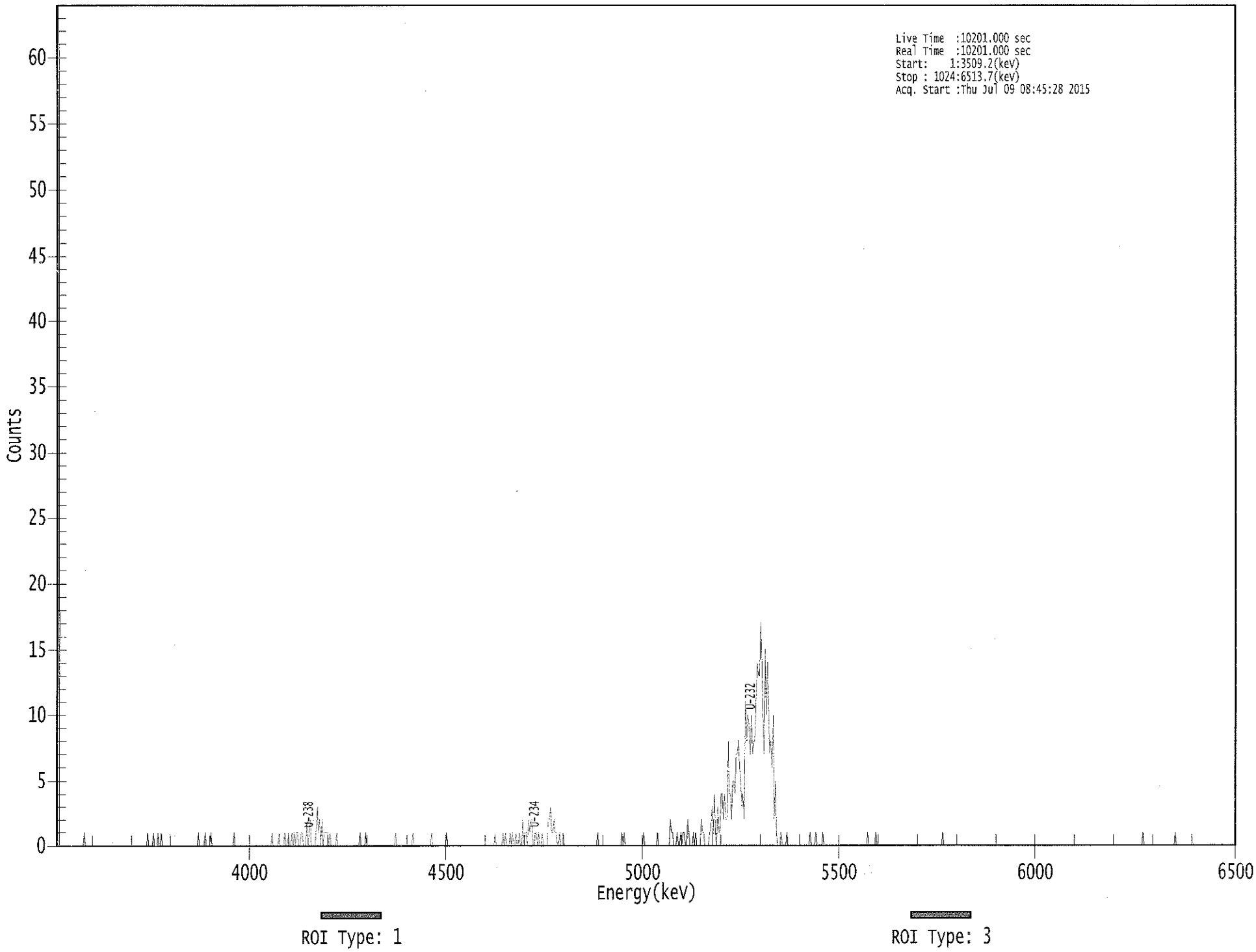
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.277	374.45	10.17	2.55	0.00E+000	21.5
U-234		4.728	34.62	34.63	2.38	0.00E+000	8.8
U-235		4.418	2.49	138.30	0.51	0.00E+000	2.9
U-238		4.154	28.98	37.15	1.02	0.00E+000	4.4

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	4.77E+000 +/- 5.31E-001	1.07E-001 +/- 1.19E-002
U-234	0.992	4761.50*	4.41E-001 +/- 1.60E-001	1.04E-001 +/- 1.16E-002
U-235	0.993	4385.50*	3.91E-002 +/- 5.43E-002	8.24E-002 +/- 9.17E-003
U-238	0.993	4184.40*	3.67E-001 +/- 1.42E-001	7.99E-002 +/- 8.89E-003

0000122491.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10201
Elapsed Real Time: 10201

Channel								
1:	10201	10201	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	1	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	1
81:	0	0	0	0	1	0	0	0
89:	1	0	0	1	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	1	0	0	0	0
129:	0	1	0	0	0	0	1	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	1	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	1	0	0	0	0
193:	0	1	0	0	0	0	1	0
201:	0	1	0	0	1	0	1	0
209:	1	1	0	0	1	1	0	0
217:	0	2	0	1	2	0	0	0
225:	0	1	3	1	2	0	2	0
233:	1	1	1	1	0	1	0	0
241:	0	0	0	1	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	1
265:	0	0	0	0	1	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	1	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	1	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	1	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
377:	0	0	0	0	1	0	0	0
385:	0	0	0	1	0	1	0	0
393:	0	1	0	1	0	0	1	0
401:	0	1	0	0	2	0	1	1
409:	0	2	1	2	2	0	0	1
417:	1	0	1	0	0	1	0	0
425:	0	0	2	2	3	1	1	2
433:	1	1	0	0	1	0	0	1
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	1	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	1	0	1	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	1	0	0
513:	0	0	0	0	0	0	0	0
521:	0	1	0	0	0	0	0	0
529:	0	0	0	0	2	1	1	0
537:	0	0	1	0	0	1	0	1
545:	1	0	0	2	1	0	0	0
553:	1	0	1	0	0	0	0	2
561:	1	1	0	0	0	0	1	1
569:	3	0	4	1	0	3	1	1
577:	4	4	2	4	2	2	8	4
585:	4	2	5	5	4	7	7	8
593:	6	5	3	4	2	11	8	10
601:	9	7	10	7	8	8	11	14
609:	13	13	17	14	10	7	15	10
617:	14	10	7	8	6	10	2	5
625:	1	0	0	0	1	0	0	0
633:	0	1	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	1	0	0
657:	0	0	1	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	1
705:	0	0	0	0	0	0	1	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	1	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	1	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-01.024-027
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_015
Chamber Serial Number:
Detector Serial Number: 15
Env. Background: System Bkgd 122503
Reagent Blank: <not performed>

Sample Size: 1.026E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:29 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.2397 +/- 0.0125
Counting Efficiency: 0.2348 +/- 0.0040 on 5/1/2015 2:28:00 PM
Chem. Recovery Factor: 1.0210 +/- 0.0560

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

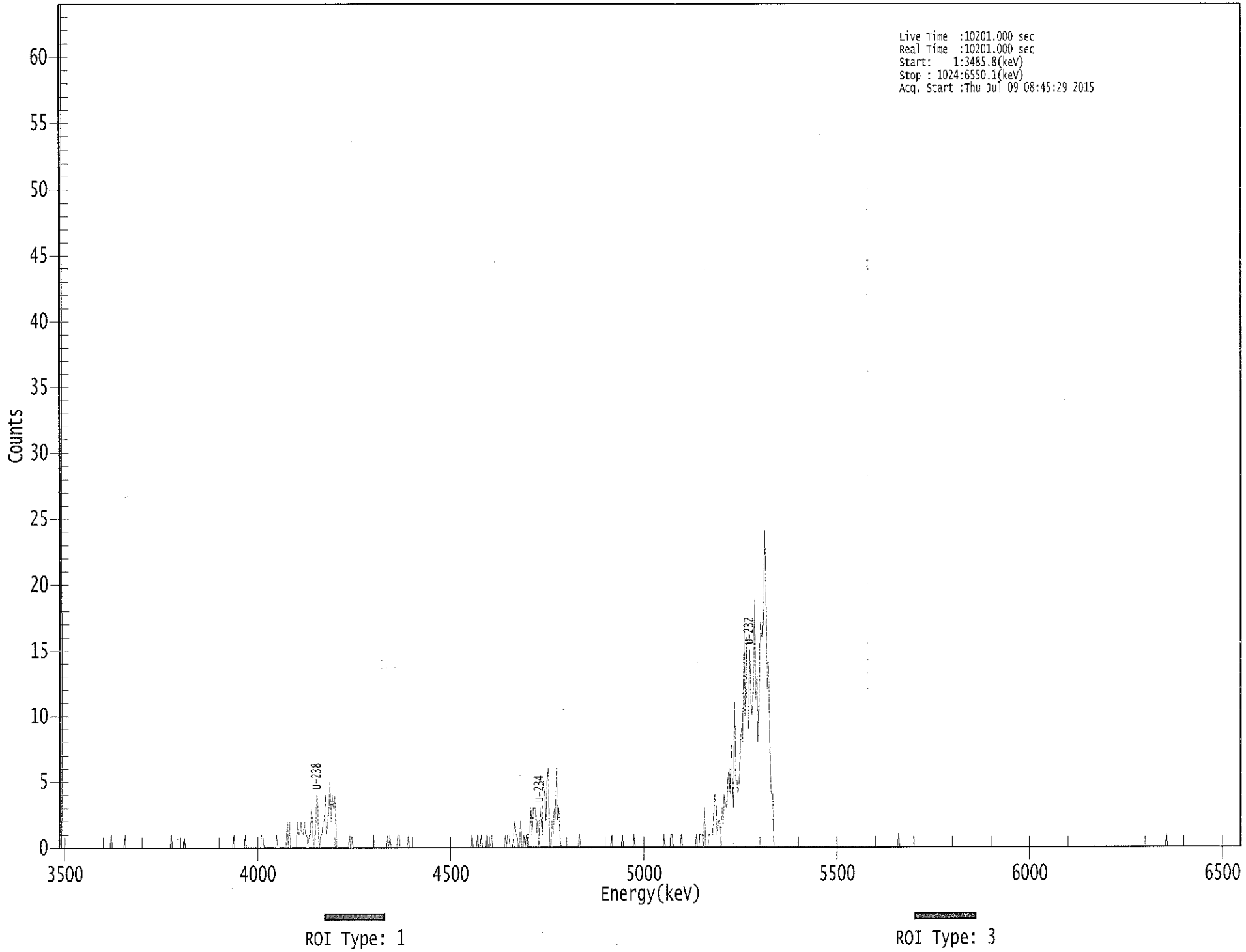
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.275	456.49	9.18	0.51	0.00E+000	21.0
U-234		4.732	80.49	21.93	0.51	0.00E+000	6.5
U-235		4.350	6.00	86.43	0.00	0.00E+000	3.0
U-238		4.154	72.00	23.26	0.00	0.00E+000	7.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	4.93E+000 +/- 5.04E-001	5.67E-002 +/- 5.80E-003
U-234	0.994	4761.50*	8.69E-001 +/- 2.10E-001	5.66E-002 +/- 5.79E-003
U-235	0.991	4385.50*	7.99E-002 +/- 6.95E-002	7.98E-002 +/- 8.17E-003
U-238	0.994	4184.40*	7.74E-001 +/- 1.97E-001	6.44E-002 +/- 6.59E-003

0000122492.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10201
Elapsed Real Time: 10201

Channel								
1:	10201	10201	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	1	0	0
49:	0	0	0	0	0	0	0	0
57:	0	1	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	1	0	0	0	0	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	1
153:	0	0	0	0	0	0	0	0
161:	0	1	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	1
177:	1	0	0	0	0	0	0	0
185:	0	0	0	0	1	0	0	0
193:	0	0	0	0	0	2	0	2
201:	0	0	0	0	0	0	2	1
209:	1	2	1	1	2	1	1	0
217:	1	1	3	2	0	0	3	4
225:	1	0	1	1	2	2	4	1
233:	2	3	5	2	4	3	4	2
241:	0	0	0	0	0	0	0	0
249:	0	0	0	1	0	1	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	1	0	0	0	0	0	0	0
281:	0	0	0	0	1	0	1	0
289:	0	0	0	0	0	1	1	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	1	0	0
361:	0	0	1	0	0	1	0	0

369:	0	0	1	0	0	0	1	0

Sample Title: 07

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	1	0	1	1	0	0
393:	0	1	2	1	1	0	0	2
401:	0	0	1	0	1	1	1	1
409:	3	1	3	3	3	1	2	0
417:	3	2	1	5	4	2	5	6
425:	0	0	2	1	3	2	6	2
433:	3	1	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	1	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	1	0
481:	0	0	0	0	0	0	0	1
489:	0	0	0	0	0	0	0	0
497:	0	1	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	1	0	0	0	0
529:	0	1	1	0	0	0	0	0
537:	0	0	1	0	0	0	0	0
545:	0	0	0	0	0	0	0	1
553:	0	0	1	1	1	0	3	0
561:	0	0	1	1	1	1	3	4
569:	3	1	2	2	1	3	2	4
577:	3	3	5	6	4	8	5	3
585:	11	5	5	4	5	8	9	8
593:	17	10	16	9	9	15	11	10
601:	12	19	11	13	8	12	17	16
609:	16	18	24	19	12	14	10	5
617:	4	4	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	1	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	1	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KD 7/9/15

Sample Description: FEEBRIS1D-02.027-030
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-UU
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_033
Chamber Serial Number: 04026479A
Detector Serial Number: 91132
Env. Background: System Bkgd 122504
Reagent Blank: <not performed>

Sample Size: 9.000E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:31 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1713 +/- 0.0103
Counting Efficiency: 0.1805 +/- 0.0032 on 10/25/2014 2:26:39 PM
Chem. Recovery Factor: 0.9492 +/- 0.0594

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

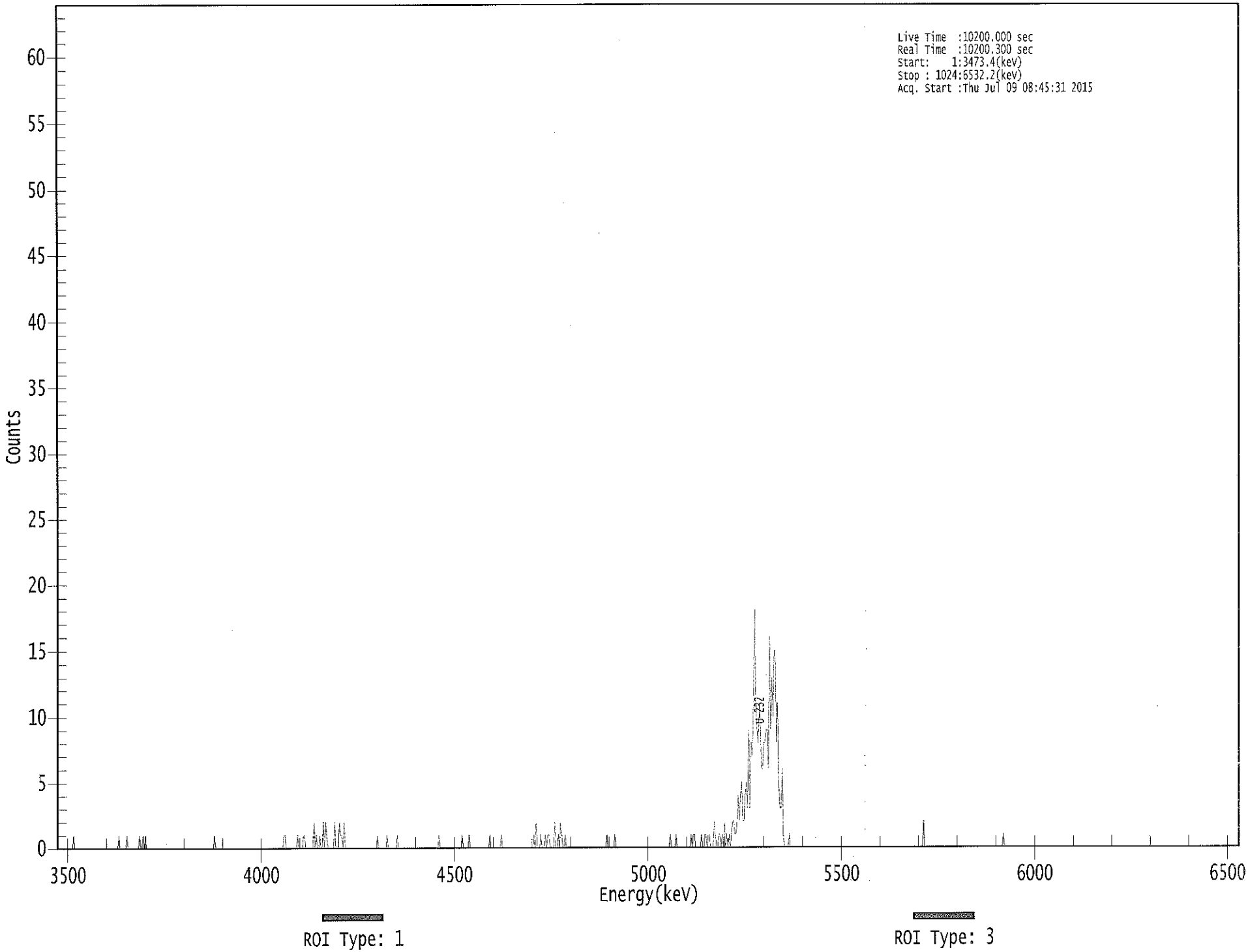
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.291	325.83	10.86	0.17	0.00E+000	10.8
U-234		4.739	14.49	52.54	0.51	0.00E+000	3.0
U-235		4.360	3.66	107.87	0.34	0.00E+000	3.0
U-238		4.158	21.66	42.50	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.999	5302.50*	5.61E+000 +/- 6.60E-001	7.19E-002 +/- 8.46E-003
U-234	0.997	4761.50*	2.50E-001 +/- 1.34E-001	9.04E-002 +/- 1.06E-002
U-235	0.995	4385.50*	7.78E-002 +/- 8.44E-002	1.02E-001 +/- 1.19E-002
U-238	0.995	4184.40*	3.71E-001 +/- 1.64E-001	8.20E-002 +/- 9.64E-003

0000122506.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	1	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	1	0	0
57:	0	0	0	0	1	0	0	0
65:	0	0	0	0	0	0	0	1
73:	0	0	1	0	1	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	1	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	1	1	0	0
201:	0	0	0	0	0	0	0	0
209:	1	0	0	0	0	1	1	0
217:	0	0	0	0	0	0	2	0
225:	1	0	0	1	0	0	2	0
233:	2	1	0	0	0	0	0	0
241:	2	0	0	0	2	1	1	0
249:	2	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	1	0	0
281:	0	0	0	0	0	1	0	0
289:	0	0	0	0	0	0	1	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	0	0	0	0	1	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	1	0

Sample Title: 08

Channel								
377:	0	0	0	0	0	0	0	0
385:	1	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	1	0	2	0
417:	0	0	1	0	0	0	1	0
425:	1	1	0	0	0	0	2	0
433:	0	1	0	2	1	0	0	1
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	1	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	1	0	0	0	0	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	1	0	1	1
553:	0	0	0	0	0	1	0	0
561:	1	1	0	1	1	0	0	0
569:	2	1	0	0	1	1	0	1
577:	0	2	0	1	0	1	0	1
585:	2	2	1	1	2	4	2	4
593:	5	2	2	4	5	3	9	3
601:	8	7	12	18	11	9	8	11
609:	9	6	6	8	8	9	9	6
617:	16	9	13	10	15	14	8	11
625:	5	3	3	6	1	0	0	0
633:	0	1	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	2	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	1	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-02.020-023
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-UU
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 122505
Reagent Blank: <not performed>

Sample Size: 1.054E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:32 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.602 mL
Effective Efficiency: 0.1887 +/- 0.0109
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 1.0550 +/- 0.0636

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

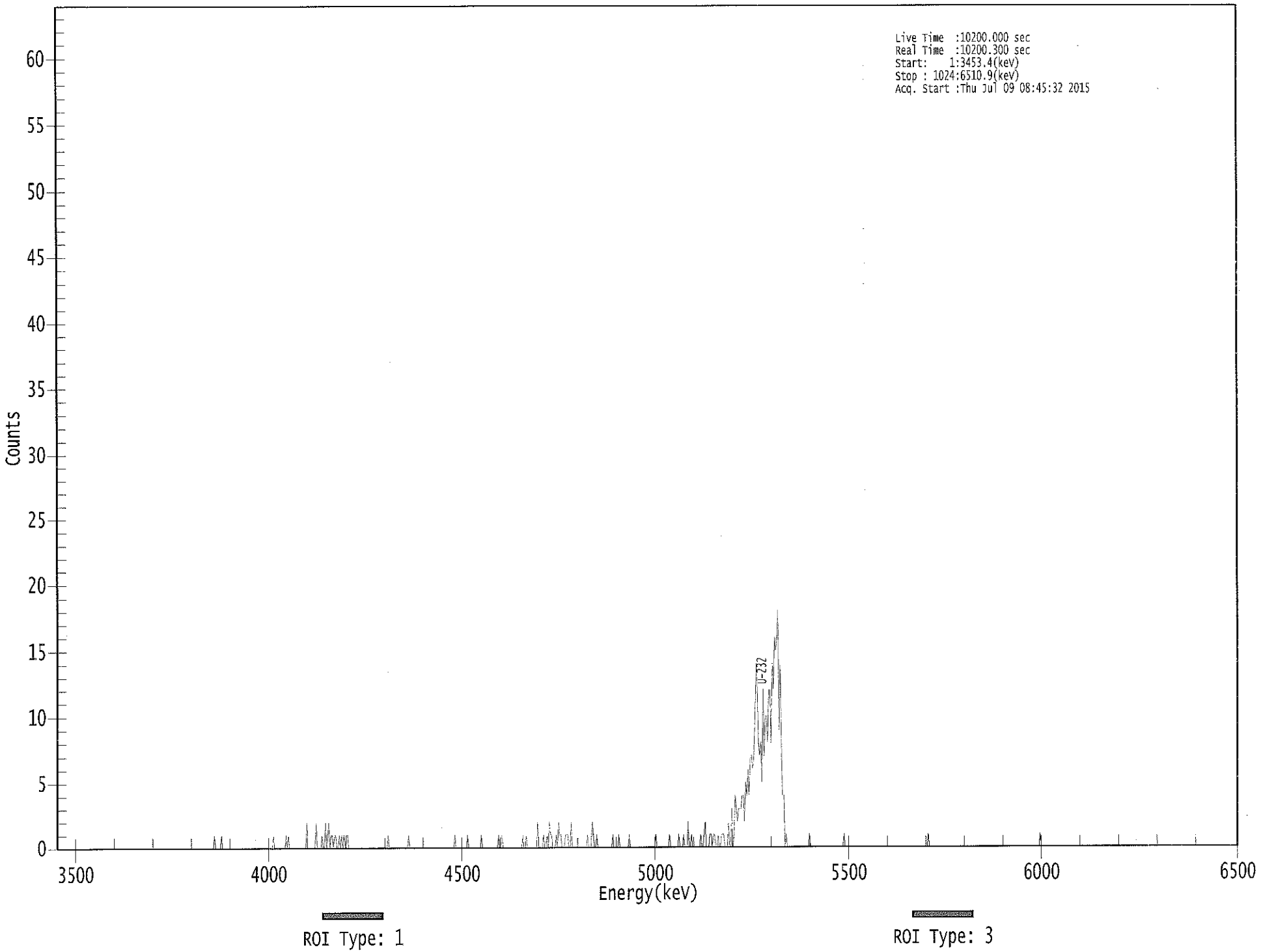
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.280	358.49	10.36	0.51	0.00E+000	20.4
U-234		4.742	23.49	40.95	0.51	0.00E+000	3.0
U-235		4.384	2.83	120.53	0.17	0.00E+000	3.0
U-238		4.140	21.66	42.50	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.997	5302.50*	4.79E+000 +/- 5.41E-001	7.01E-002 +/- 7.92E-003
U-234	0.997	4761.50*	3.14E-001 +/- 1.33E-001	7.01E-002 +/- 7.92E-003
U-235	1.000	4385.50*	4.66E-002 +/- 5.64E-002	6.87E-002 +/- 7.77E-003
U-238	0.986	4184.40*	2.88E-001 +/- 1.27E-001	6.36E-002 +/- 7.18E-003

0000122507.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	1	0	0	0	0	0	1	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	1	0	0	0	0
193:	0	0	0	0	0	0	1	0
201:	1	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	2	0	0	0	0	0	0	0
225:	2	0	0	0	0	1	0	0
233:	2	0	1	2	0	1	1	0
241:	1	1	0	0	1	0	1	0
249:	1	0	1	1	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	1	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	1	0	0	0	0	0	0	0
353:	0	0	0	1	0	0	0	0
361:	0	0	0	0	0	0	0	1

369:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
377:	0	0	0	0	0	0	1	0
385:	0	1	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	1	0	0	1	0
409:	0	0	0	0	0	0	0	0
417:	2	0	0	0	0	1	0	0
425:	1	0	2	1	1	0	0	0
433:	1	0	2	1	1	0	0	0
441:	1	1	1	0	0	2	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	1	0	0	0	2
465:	1	0	0	1	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	1	0	0	0	0	1	0
489:	0	0	0	0	0	0	0	1
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	1	0
521:	0	0	0	0	0	0	0	0
529:	0	0	1	0	0	0	0	0
537:	0	0	1	0	0	0	1	0
545:	0	0	2	0	0	1	0	0
553:	0	0	0	0	0	1	0	0
561:	1	2	0	0	0	1	1	0
569:	1	1	0	0	1	0	0	1
577:	1	1	0	0	0	2	0	0
585:	3	0	1	4	3	2	3	3
593:	3	4	4	2	5	4	6	4
601:	7	7	6	7	10	14	12	8
609:	7	8	5	12	7	10	10	8
617:	12	12	8	14	12	16	15	16
625:	18	9	14	7	4	4	0	1
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	1	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	1	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	1	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

JB 7/9/15

Sample Description: FEEBRIS1D-02.036-037
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_035
Chamber Serial Number: 04026477A
Detector Serial Number: 58771
Env. Background: System Bkgd 122506
Reagent Blank: <not performed>

Sample Size: 1.050E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:34 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.2190 +/- 0.0119
Counting Efficiency: 0.1647 +/- 0.0029 on 10/25/2014 2:34:10 PM
Chem. Recovery Factor: 1.3292 +/- 0.0757

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

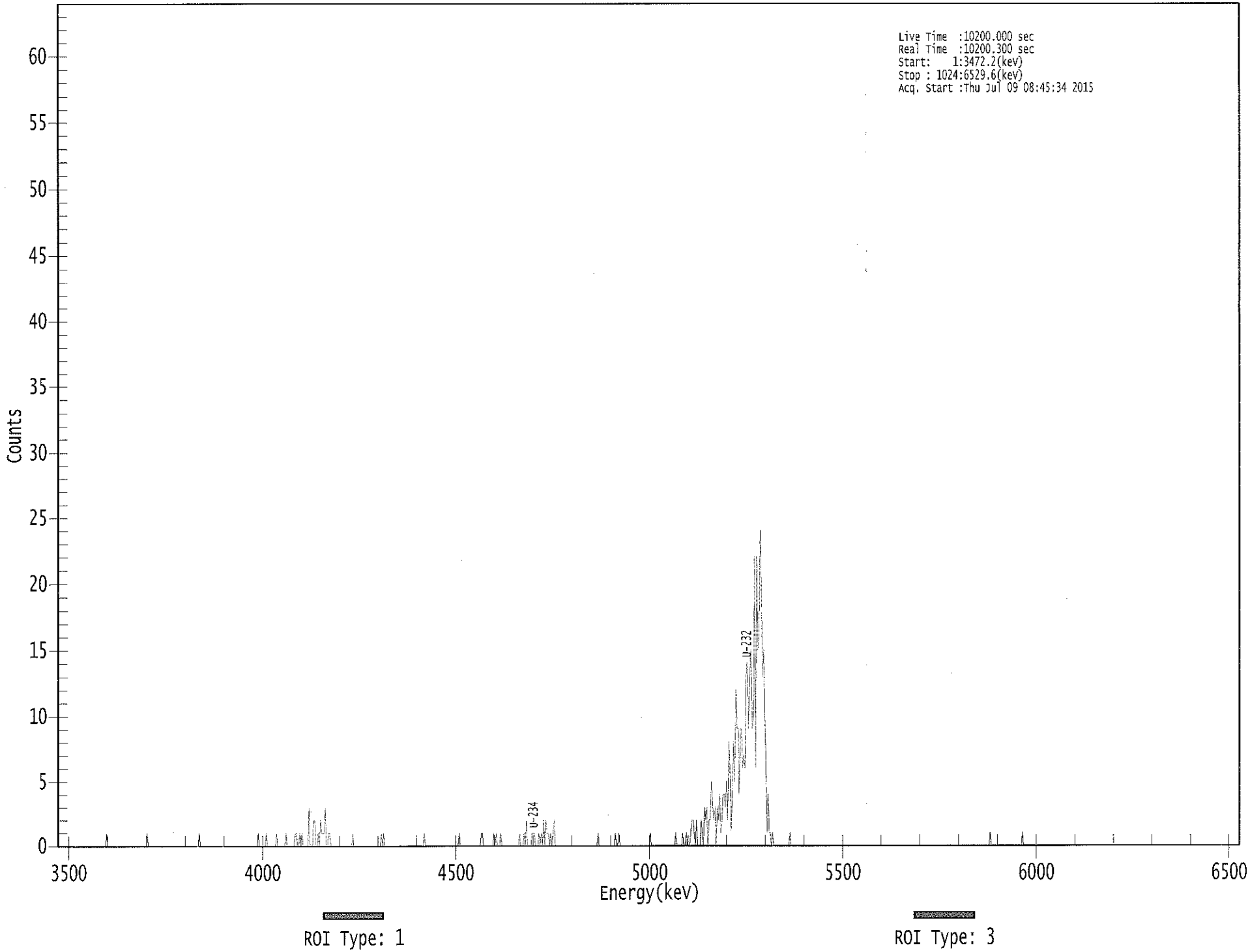
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.253	416.66	9.61	0.34	0.00E+000	21.6
U-234		4.703	21.83	42.14	0.17	0.00E+000	3.0
U-235		4.348	3.00	130.67	0.00	0.00E+000	3.0
U-238		4.129	25.66	38.99	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.983	5302.50*	4.81E+000 +/- 5.11E-001	5.52E-002 +/- 5.86E-003
U-234	0.976	4761.50*	2.52E-001 +/- 1.10E-001	4.82E-002 +/- 5.11E-003
U-235	0.990	4385.50*	4.27E-002 +/- 5.60E-002	8.54E-002 +/- 9.06E-003
U-238	0.979	4184.40*	2.95E-001 +/- 1.19E-001	5.50E-002 +/- 5.83E-003

0000122494.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	1	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	1	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	1	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	1	0	0
177:	0	0	0	0	1	0	0	0
185:	0	0	0	0	0	1	0	0
193:	0	0	0	0	0	1	0	0
201:	0	0	0	0	0	1	1	0
209:	0	1	0	1	0	0	0	0
217:	0	3	0	0	0	2	2	0
225:	0	1	0	2	1	1	1	3
233:	0	0	1	1	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	1
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	1	0	1	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	1	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	1	1

369:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
377:	0	1	0	1	0	0	0	1
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	1
401:	0	0	0	1	0	2	0	0
409:	0	0	1	1	1	0	0	0
417:	1	0	1	0	2	0	2	1
425:	1	0	1	0	1	2	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	1	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	1	0	0	1	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	1	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	1	0
537:	0	0	0	0	1	0	0	1
545:	0	0	0	1	2	2	1	0
553:	2	0	0	0	2	1	0	3
561:	2	3	0	2	2	5	3	2
569:	3	0	3	2	4	1	2	4
577:	4	3	5	2	8	6	1	4
585:	8	5	12	9	9	4	9	9
593:	6	7	6	14	14	9	14	15
601:	9	10	22	6	22	15	16	24
609:	20	13	15	10	7	1	4	1
617:	1	0	1	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	1	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	1	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	1	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-18.013-014
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 11
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 122507
Reagent Blank: <not performed>

Sample Size: 1.054E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:35 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1828 +/- 0.0107
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 1.0126 +/- 0.0618

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

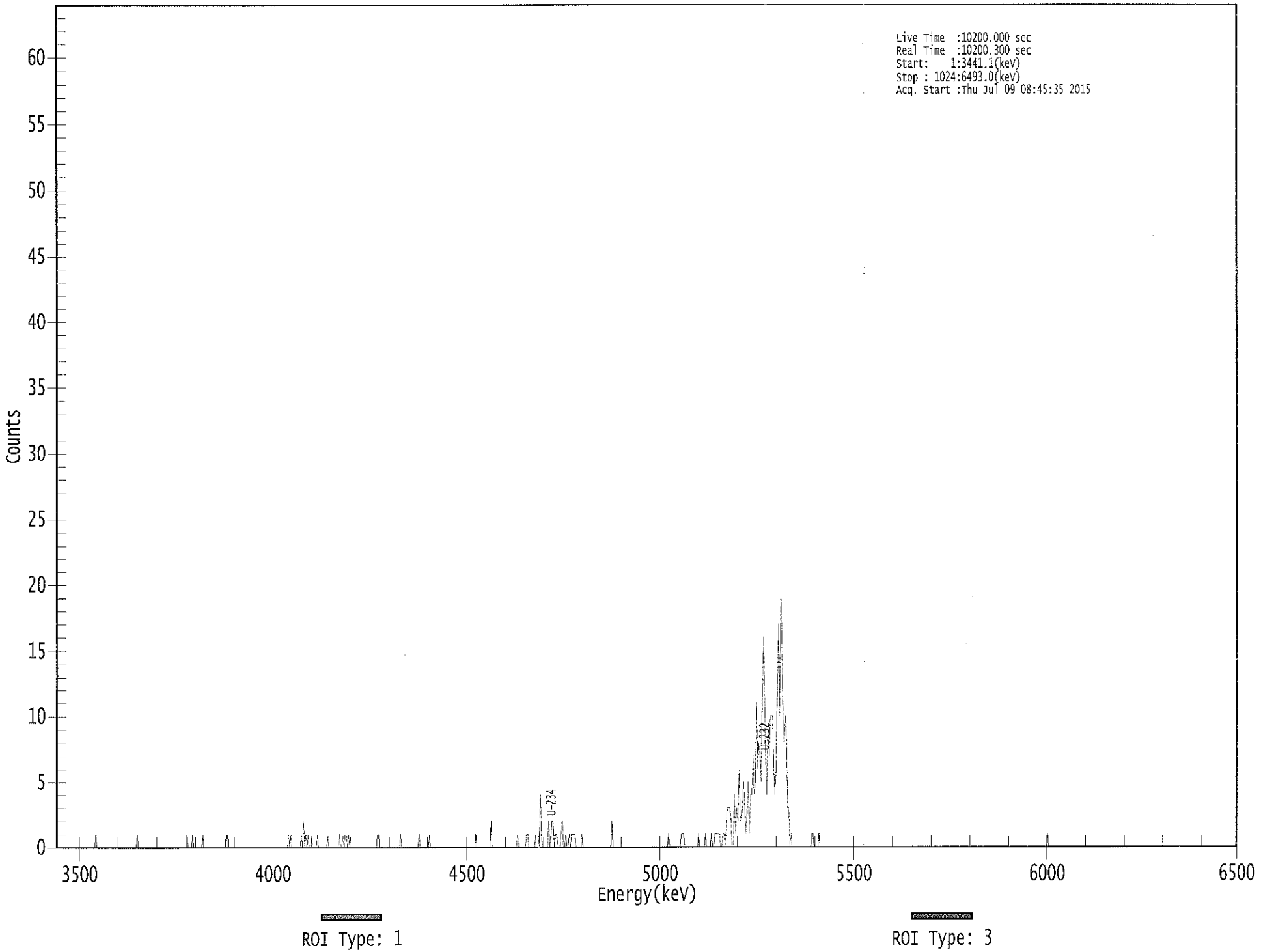
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.272	346.66	10.53	0.34	0.00E+000	15.6
U-234		4.721	30.49	35.84	0.51	0.00E+000	3.5
U-235		4.371	2.83	120.53	0.17	0.00E+000	3.0
U-238		4.119	15.00	52.27	0.00	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.993	5302.50*	4.78E+000 +/- 5.48E-001	6.59E-002 +/- 7.55E-003
U-234	0.988	4761.50*	4.20E-001 +/- 1.58E-001	7.23E-002 +/- 8.28E-003
U-235	0.998	4385.50*	4.81E-002 +/- 5.82E-002	7.09E-002 +/- 8.13E-003
U-238	0.970	4184.40*	2.06E-001 +/- 1.10E-001	8.23E-002 +/- 9.43E-003

0000122495.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	1	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	1	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	1	0	0	0	0	1	0
121:	0	0	0	0	0	0	0	1
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	1	1	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	1	0	1	0	0	0	0
209:	0	0	0	0	1	0	2	0
217:	1	0	1	0	0	1	0	0
225:	0	0	1	0	0	0	0	0
233:	0	0	0	1	0	0	0	0
241:	0	0	0	0	0	1	0	0
249:	1	0	1	1	0	1	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	1	1
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	1	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	1	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	1	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
377:	2	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	1
401:	0	0	0	0	0	0	0	1
409:	1	0	0	0	0	0	0	1
417:	1	1	0	4	1	0	0	0
425:	0	0	2	0	1	2	2	0
433:	1	1	0	0	0	2	2	0
441:	0	1	0	0	1	0	1	1
449:	1	1	0	0	0	0	0	1
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	2	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	1	0	0	0	0	0
537:	0	0	0	0	0	1	1	1
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	1	0	0	0
561:	0	0	1	0	0	0	0	1
569:	0	0	1	1	1	1	1	0
577:	0	1	1	0	2	3	3	3
585:	2	0	0	4	1	3	2	6
593:	2	2	3	5	3	1	3	5
601:	1	4	4	7	4	5	11	6
609:	8	7	5	12	16	11	7	4
617:	9	7	10	10	10	6	4	6
625:	12	17	10	19	16	8	8	10
633:	8	3	3	0	1	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	1	1
657:	0	0	0	0	1	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	1	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/9/15

Sample Description: FEEBRIS1D-18.038-041
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 12
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 122508
Reagent Blank: <not performed>

Sample Size: 1.080E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:37 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.602 mL
Effective Efficiency: 0.1735 +/- 0.0104
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 1.0152 +/- 0.0632

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

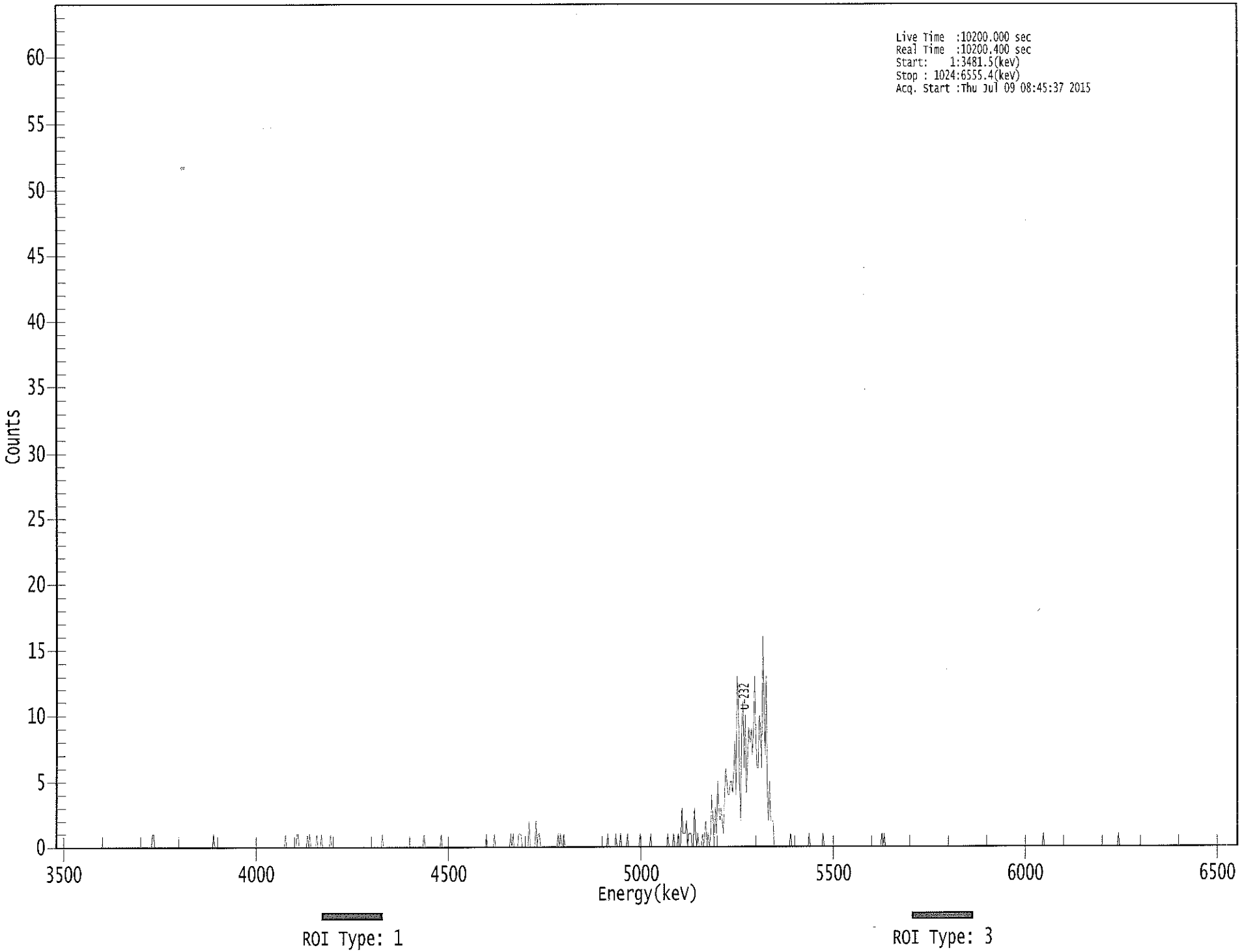
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.274	329.83	10.80	0.17	0.00E+000	7.7
U-234		4.709	15.66	50.15	0.34	0.00E+000	3.0
U-235		4.416	2.83	120.53	0.17	0.00E+000	3.0
U-238		4.136	7.66	72.63	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.994	5302.50*	4.68E+000 +/- 5.47E-001	5.92E-002 +/- 6.92E-003
U-234	0.980	4761.50*	2.22E-001 +/- 1.14E-001	6.78E-002 +/- 7.93E-003
U-235	0.993	4385.50*	4.95E-002 +/- 5.99E-002	7.30E-002 +/- 8.54E-003
U-238	0.983	4184.40*	1.08E-001 +/- 7.95E-002	6.75E-002 +/- 7.89E-003

0000122496.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 12

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	1	1	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	1	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	1	0
201:	0	0	0	0	0	0	0	0
209:	1	1	0	0	0	0	0	0
217:	0	1	0	1	0	0	0	0
225:	0	1	0	0	0	1	0	0
233:	0	0	0	0	0	1	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	1	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	1	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	1	0	0	0

Sample Title: 12

Channel								
377:	0	0	0	1	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	1	0	1	0	0	0	0
401:	1	1	1	0	0	0	0	0
409:	0	2	0	0	0	0	0	2
417:	0	1	1	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	1	0	1	0	0	1
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	1	0	0
481:	0	0	0	0	1	0	0	0
489:	1	0	0	0	0	0	1	0
497:	0	0	0	0	0	0	0	0
505:	0	1	0	0	0	0	0	0
513:	0	0	1	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	1	0	0	0	0	1	0
537:	0	0	1	0	0	3	1	1
545:	1	2	0	1	1	1	0	0
553:	3	1	0	1	0	0	0	1
561:	0	1	2	0	1	0	1	4
569:	2	0	3	1	5	3	2	3
577:	2	1	4	6	5	4	4	5
585:	5	4	6	8	4	13	11	5
593:	2	9	11	6	10	4	7	9
601:	8	9	7	9	13	8	6	6
609:	10	9	6	16	11	7	13	4
617:	2	5	2	2	2	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	1	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	1	0	0	0	0
657:	0	0	0	0	0	0	0	1
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	1	0	1	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 12

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	1	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	1
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-18.044-046
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 13
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 122509
Reagent Blank: <not performed>

Sample Size: 5.170E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:39 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.602 mL
Effective Efficiency: 0.1928 +/- 0.0110
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.1938 +/- 0.0714

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

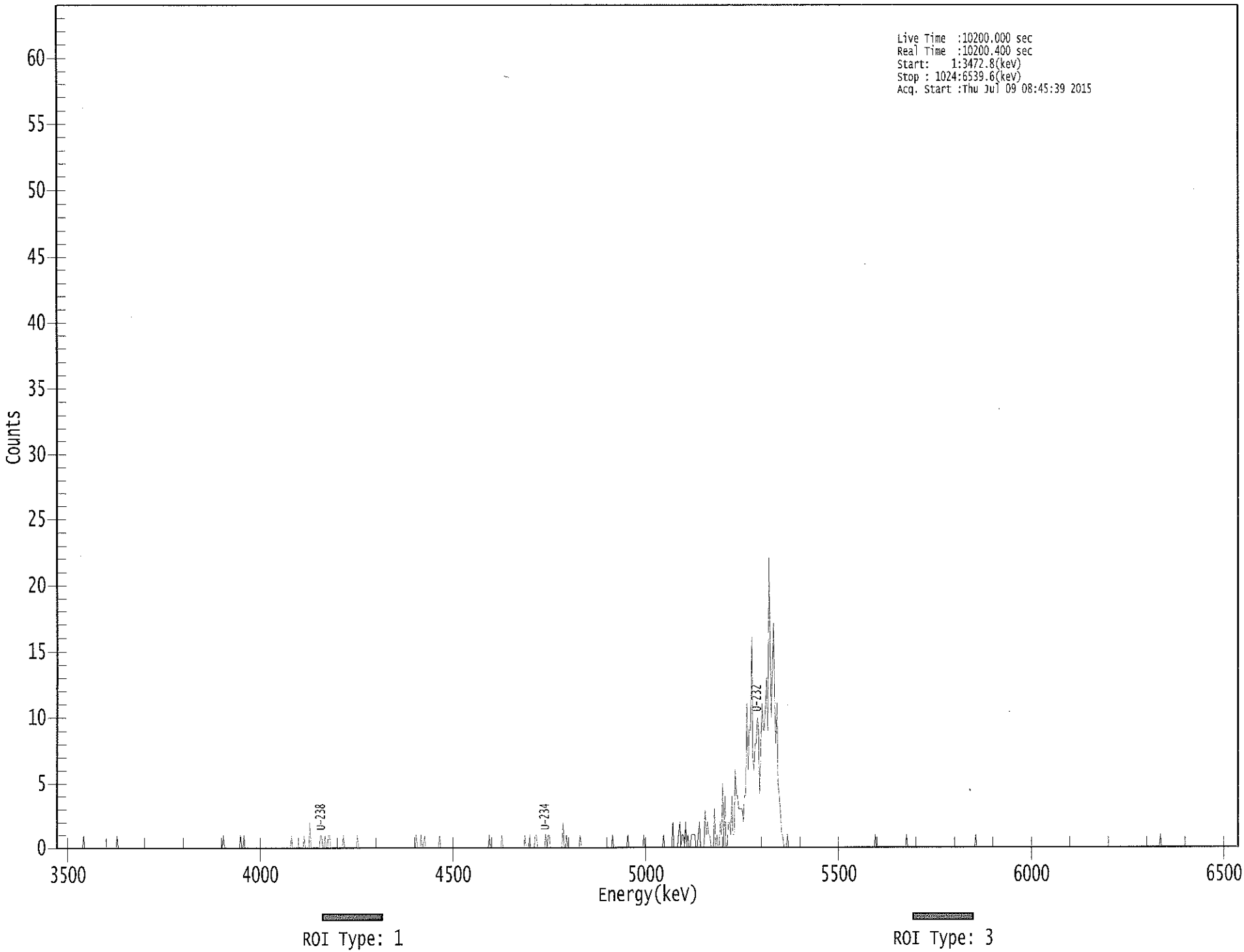
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.290	366.66	10.24	0.34	0.00E+000	7.9
U-234		4.740	11.66	58.37	0.34	0.00E+000	3.0
U-235		4.428	3.66	107.87	0.34	0.00E+000	3.0
U-238		4.160	10.66	61.14	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.999	5302.50*	9.77E+000 +/- 1.09E+000	1.27E-001 +/- 1.43E-002
U-234	0.997	4761.50*	3.11E-001 +/- 1.85E-001	1.27E-001 +/- 1.42E-002
U-235	0.987	4385.50*	1.20E-001 +/- 1.30E-001	1.57E-001 +/- 1.76E-002
U-238	0.996	4184.40*	2.83E-001 +/- 1.76E-001	1.27E-001 +/- 1.42E-002

0000122497.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 13

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	1
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	1	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	1	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	1	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	1	0	0	0	0
209:	0	0	0	0	0	0	1	0
217:	0	0	0	2	0	0	0	0
225:	0	0	0	0	1	1	0	0
233:	1	0	0	1	1	0	0	0
241:	0	0	0	0	0	0	0	0
249:	1	0	0	0	0	0	0	0
257:	0	0	0	0	1	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	1
313:	0	0	0	1	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	1	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	1	0

Sample Title: 13

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	1	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	1	0	0
409:	0	1	0	0	0	0	1	1
417:	0	0	0	0	0	0	0	1
425:	0	1	1	0	0	0	0	0
433:	0	0	0	0	0	0	2	0
441:	0	1	0	0	0	0	0	0
449:	0	0	0	0	0	1	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	1	0	0	0	0	0	0
489:	0	0	0	0	0	0	1	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	1	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	0
529:	0	0	0	0	0	2	0	0
537:	0	0	1	2	0	1	1	0
545:	2	0	1	0	0	1	1	1
553:	1	0	0	1	2	0	0	0
561:	0	3	1	2	1	1	0	0
569:	0	3	0	1	0	0	2	1
577:	5	0	4	0	0	2	2	1
585:	4	1	1	6	4	4	3	3
593:	3	3	2	4	4	11	6	9
601:	9	16	7	6	8	8	10	9
609:	4	8	11	9	9	11	13	9
617:	22	15	10	14	17	11	8	11
625:	5	4	3	1	1	0	0	0
633:	1	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	1	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	1
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	1	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 13

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

VLD 7/9/15

Sample Description: FEEBRIS1D-17.030-031
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 14
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 122510
Reagent Blank: <not performed>

Sample Size: 1.051E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:41 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.600 mL
Effective Efficiency: 0.1978 +/- 0.0112
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 1.0226 +/- 0.0605

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

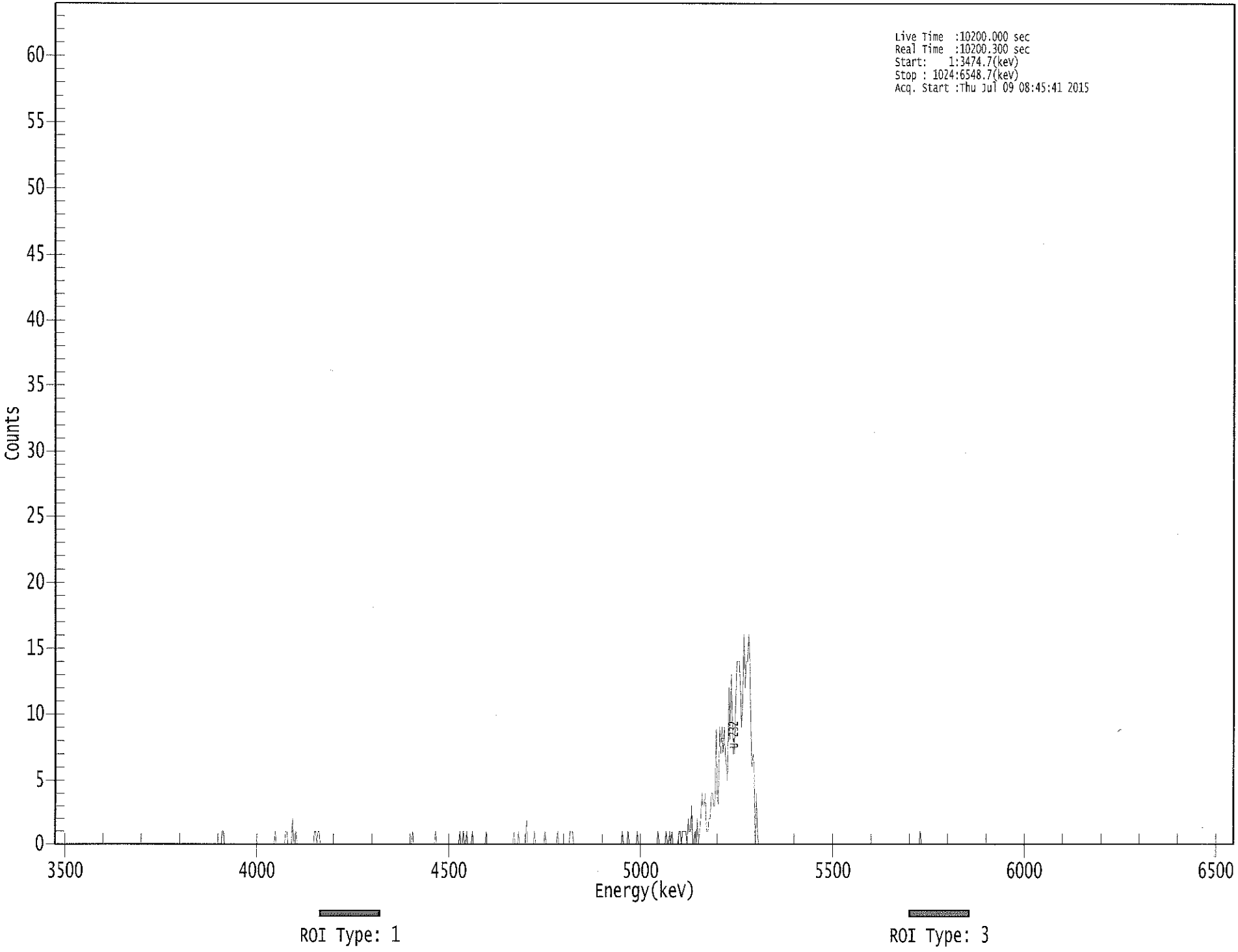
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.243	374.83	10.13	0.17	0.00E+000	42.3
U-234		4.735	11.00	61.72	0.00	0.00E+000	3.0
U-235		4.436	1.83	152.56	0.17	0.00E+000	3.0
U-238		4.112	10.00	65.01	0.00	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.976	5302.50*	4.79E+000 +/- 5.31E-001	5.33E-002 +/- 5.91E-003
U-234	0.995	4761.50*	1.40E-001 +/- 8.81E-002	7.66E-002 +/- 8.49E-003
U-235	0.982	4385.50*	2.88E-002 +/- 4.41E-002	6.57E-002 +/- 7.29E-003
U-238	0.963	4184.40*	1.27E-001 +/- 8.38E-002	7.62E-002 +/- 8.45E-003

0000122498.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 14

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	1	1	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	0
201:	1	1	0	0	0	0	2	0
209:	0	1	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	1	1	0	1	1	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	1
353:	0	0	1	0	0	1	0	0
361:	0	0	1	0	0	0	0	0

369:	0	0	0	0	0	0	1	0

Sample Title: 14

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	1	0
401:	0	0	1	0	0	0	0	0
409:	0	2	0	0	0	0	0	0
417:	1	0	0	0	0	0	0	0
425:	0	1	0	0	0	0	0	0
433:	0	0	0	0	1	0	0	0
441:	0	0	0	0	0	0	0	1
449:	1	1	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	1	0	0	0
497:	0	1	0	0	0	0	0	0
505:	0	1	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	1	0	0	0	0
529:	0	0	1	0	0	1	0	1
537:	0	0	0	0	0	1	1	0
545:	1	1	1	1	0	2	1	1
553:	3	0	0	1	0	2	0	1
561:	2	4	3	3	4	1	1	2
569:	2	4	4	3	3	9	4	3
577:	9	7	9	7	9	7	6	5
585:	12	8	13	10	7	7	11	14
593:	14	14	12	9	11	16	12	14
601:	14	16	14	9	6	7	6	0
609:	4	1	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	1	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 14

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-17.033-036
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 15
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 122511
Reagent Blank: <not performed>

Sample Size: 5.112E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:43 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.600 mL
Effective Efficiency: 0.1737 +/- 0.0104
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 0.9362 +/- 0.0583

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

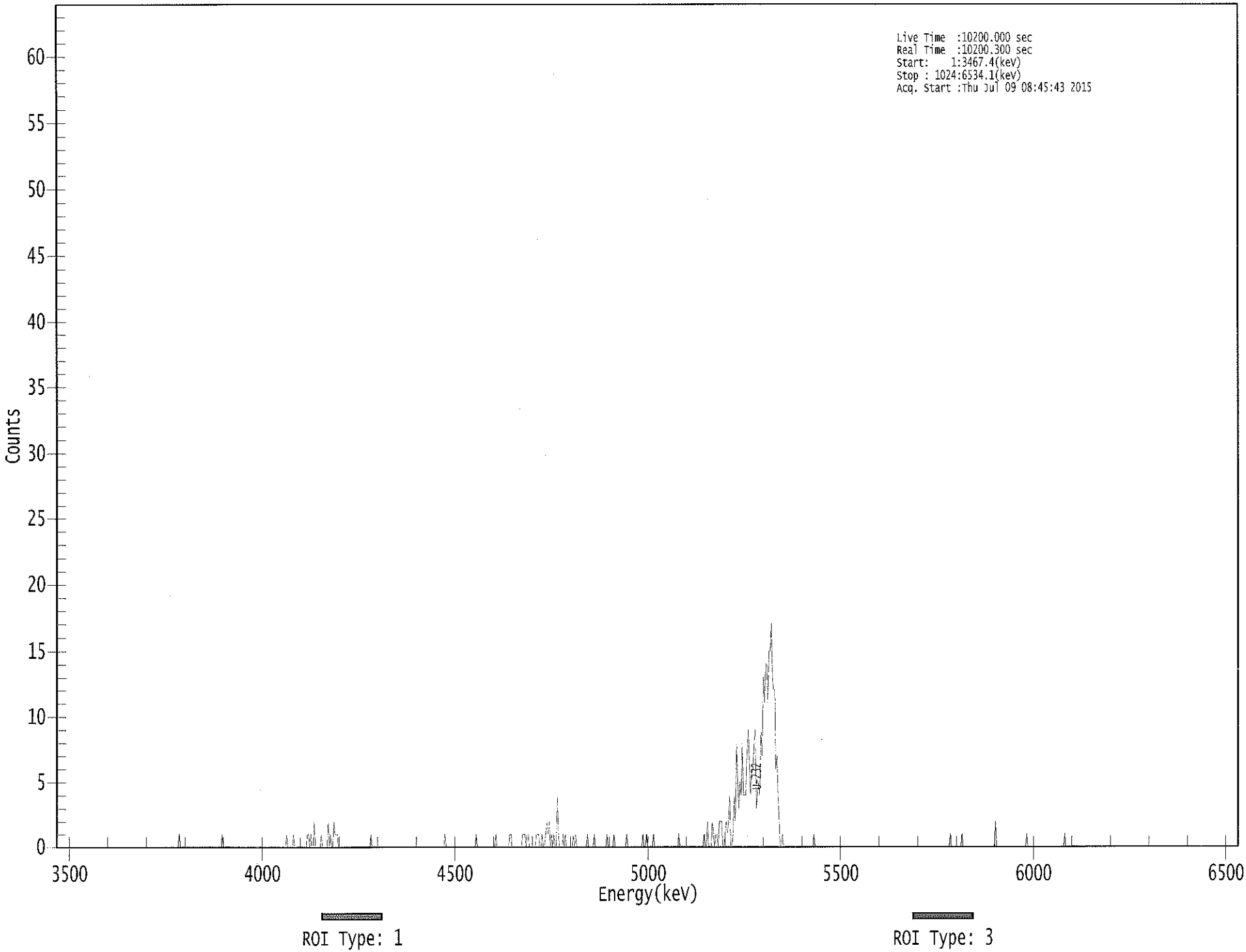
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.285	329.32	10.81	0.68	0.00E+000	34.0
U-234		4.729	28.49	37.10	0.51	0.00E+000	3.5
U-235		4.475	1.00	277.19	0.00	0.00E+000	3.0
U-238		4.151	15.83	49.57	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	9.85E+000 +/- 1.15E+000	1.69E-001 +/- 1.98E-002
U-234	0.993	4761.50*	8.52E-001 +/- 3.31E-001	1.57E-001 +/- 1.84E-002
U-235	0.945	4385.50*	3.69E-002 +/- 1.02E-001	2.21E-001 +/- 2.59E-002
U-238	0.992	4184.40*	4.71E-001 +/- 2.40E-001	1.24E-001 +/- 1.46E-002

0000122499.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 15

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	1	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	1
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	1
201:	0	0	0	0	0	1	0	0
209:	0	0	0	0	0	0	0	0
217:	0	1	1	0	1	0	0	2
225:	0	0	0	0	0	1	0	0
233:	0	0	0	2	0	1	0	0
241:	2	1	1	1	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	1	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	1	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	1	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 15

Channel								
377:	0	0	0	0	1	0	0	0
385:	0	0	0	0	0	0	0	0
393:	1	1	0	0	0	0	0	0
401:	0	0	0	1	1	1	0	1
409:	1	0	0	0	0	0	0	1
417:	1	1	0	0	1	0	0	1
425:	2	1	2	0	1	0	1	0
433:	0	4	1	0	0	0	1	0
441:	1	0	0	0	0	0	0	1
449:	0	1	0	0	0	0	0	0
457:	0	0	0	1	0	0	0	0
465:	0	1	0	0	0	0	0	0
473:	0	0	0	0	1	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	0	0	0	0	1	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	1	0	0	1	0
513:	0	0	0	0	1	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	1	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	1	0	0	2	0	0	0	2
569:	1	0	1	1	0	2	2	2
577:	0	0	1	2	1	2	4	0
585:	0	1	4	2	8	5	3	5
593:	4	8	4	4	4	7	9	7
601:	4	6	6	8	9	3	4	5
609:	4	9	7	13	11	14	14	11
617:	15	15	17	13	12	12	6	7
625:	4	2	0	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	1	0	0
777:	0	0	0	0	0	0	0	1
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 15

Channel								
809:	0	0	0	0	2	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	1
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	1	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

NB 7/9/15

Sample Description: FEEBRIS1D-13.093-094
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-UU
Sample Identification: 16
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 122512
Reagent Blank: <not performed>

Sample Size: 6.020E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:46 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.599 mL
Effective Efficiency: 0.2201 +/- 0.0119
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 1.1750 +/- 0.0669

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

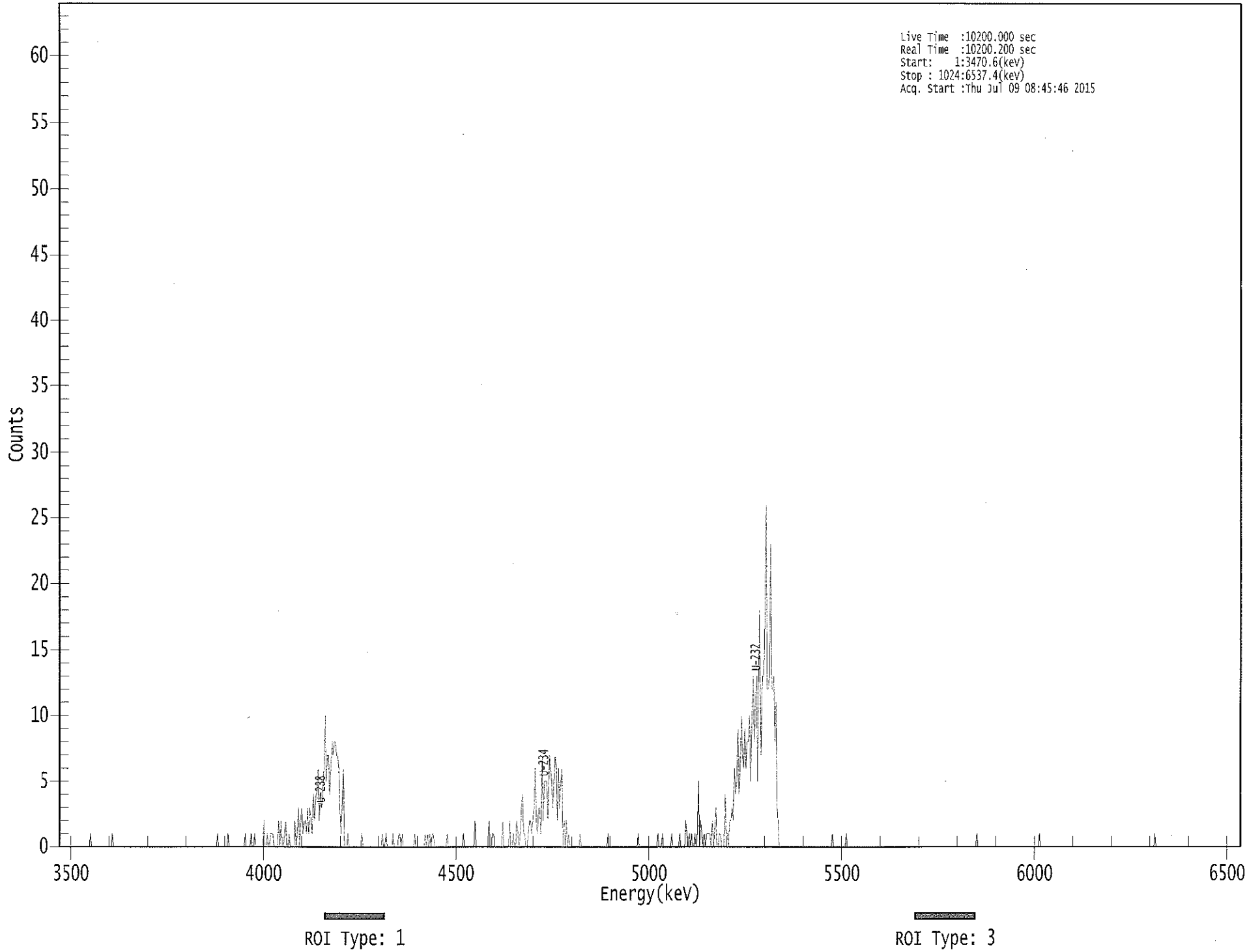
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.279	415.98	9.62	1.02	0.00E+000	8.8
U-234		4.730	138.32	16.71	0.68	0.00E+000	3.8
U-235		4.390	12.66	55.94	0.34	0.00E+000	3.0
U-238		4.152	181.94	14.67	3.06	0.00E+000	7.5

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	8.34E+000 +/- 8.87E-001	1.26E-001 +/- 1.34E-002
U-234	0.993	4761.50*	2.77E+000 +/- 5.49E-001	1.13E-001 +/- 1.20E-002
U-235	1.000	4385.50*	3.13E-001 +/- 1.78E-001	1.18E-001 +/- 1.26E-002
U-238	0.993	4184.40*	3.63E+000 +/- 6.58E-001	1.78E-001 +/- 1.89E-002

0000122502.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 16

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	1	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	1	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	1	0	0	0	0	0	0
145:	0	0	1	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	1	0	0	0	0	1	0
169:	0	1	0	0	0	0	0	0
177:	0	2	0	0	1	0	0	1
185:	1	1	0	0	0	0	2	0
193:	2	0	0	1	2	0	0	1
201:	0	0	0	0	2	0	1	3
209:	0	2	3	1	2	2	1	3
217:	1	3	2	1	4	2	4	4
225:	6	2	4	3	4	6	10	5
233:	7	7	4	6	8	7	8	8
241:	7	7	6	3	1	3	6	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	0	0	0	1	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	1	0	0	1	0	0	0	0
289:	0	1	0	0	0	0	1	1
297:	0	1	0	0	0	0	0	0
305:	0	0	0	0	1	0	0	0
313:	0	0	0	0	0	1	0	1
321:	0	1	0	1	1	0	0	0
329:	0	0	0	0	0	0	0	0
337:	1	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	0	0	0	0	0	0	0	0
361:	2	0	0	0	0	0	0	0

369:	0	0	0	0	2	0	0	1

Sample Title: 16

Channel								
377:	1	0	0	0	0	0	0	0
385:	2	0	0	0	0	0	2	0
393:	0	1	0	0	2	1	0	1
401:	3	4	1	1	0	0	1	2
409:	2	1	2	3	6	2	1	3
417:	3	1	7	2	5	5	5	2
425:	7	6	5	3	5	7	6	2
433:	6	3	5	6	0	2	0	2
441:	0	1	0	0	0	0	0	0
449:	0	0	0	1	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	1	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	1	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	1	0
521:	0	0	1	0	0	0	0	0
529:	0	0	1	0	0	0	0	0
537:	0	1	0	0	0	0	2	1
545:	0	1	0	1	0	0	1	0
553:	1	5	0	2	1	0	1	0
561:	1	1	1	1	0	2	0	1
569:	3	0	0	1	1	0	0	0
577:	4	1	1	0	2	2	3	2
585:	6	4	5	9	4	6	10	7
593:	6	9	6	8	8	10	5	9
601:	13	8	11	13	5	18	13	7
609:	13	13	17	26	12	12	13	23
617:	12	12	13	8	11	3	2	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	1	0	0
673:	0	0	0	0	0	0	0	0
681:	0	1	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	1	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 16

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	1	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	1	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

ICP 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-13.085-086
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-UU
Sample Identification: 17
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 122513
Reagent Blank: <not performed>

Sample Size: 6.510E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:48 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.599 mL
Effective Efficiency: 0.1699 +/- 0.0103
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 0.9779 +/- 0.0615

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

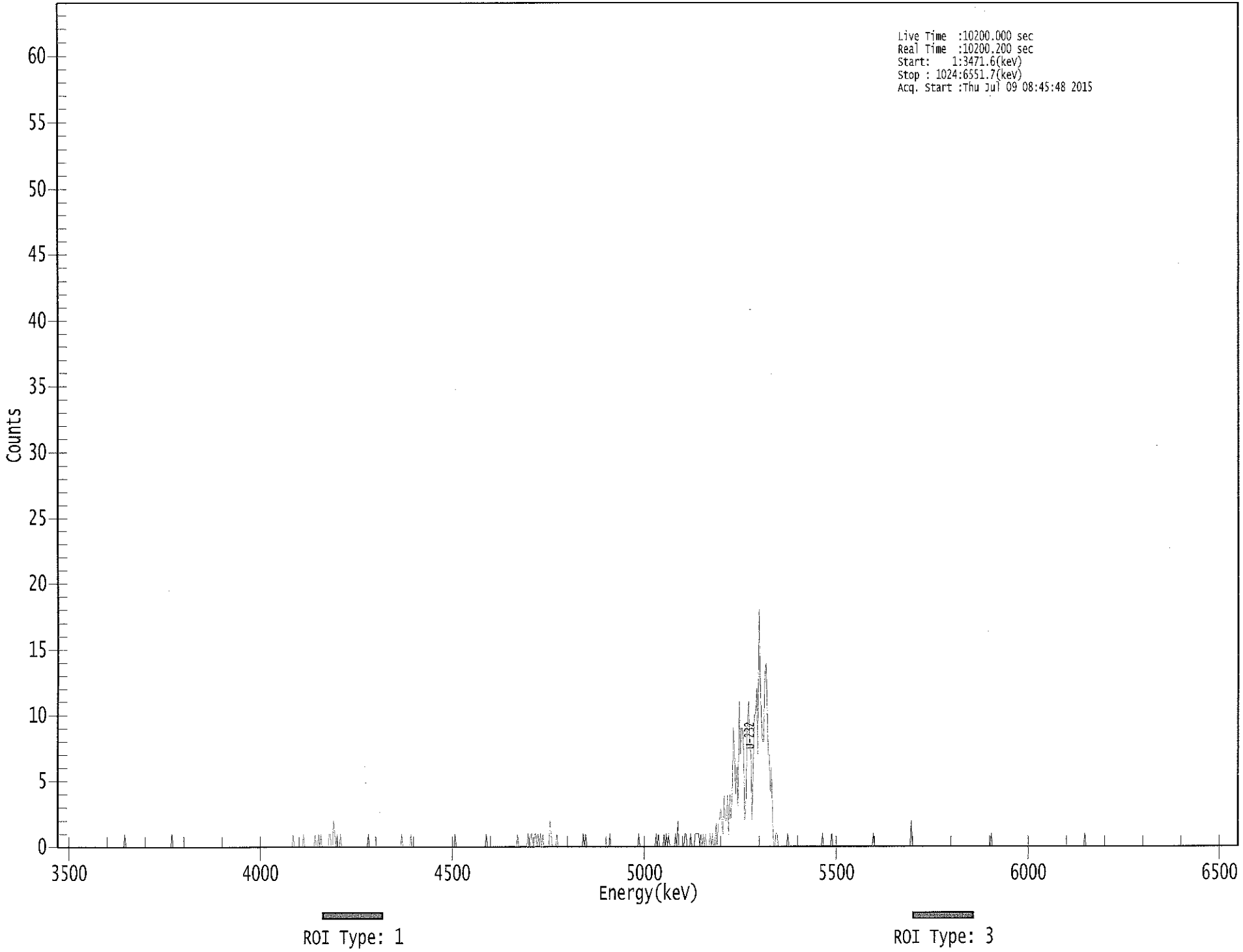
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.277	321.49	10.94	0.51	0.00E+000	10.0
U-234		4.726	12.49	56.77	0.51	0.00E+000	4.5
U-235		4.381	2.00	169.74	0.00	0.00E+000	3.0
U-238		4.167	11.49	59.30	0.51	0.00E+000	4.5

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	7.72E+000 +/- 9.14E-001	1.26E-001 +/- 1.49E-002
U-234	0.991	4761.50*	3.00E-001 +/- 1.74E-001	1.26E-001 +/- 1.49E-002
U-235	1.000	4385.50*	5.92E-002 +/- 1.01E-001	1.78E-001 +/- 2.10E-002
U-238	0.998	4184.40*	2.75E-001 +/- 1.66E-001	1.25E-001 +/- 1.48E-002

0000122503.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 17

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	1	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	1	0	0	0
209:	0	0	0	0	0	1	0	0
217:	0	0	0	0	0	0	0	1
225:	0	0	1	0	1	0	0	0
233:	0	0	0	1	1	0	0	2
241:	1	0	1	0	0	1	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	1	0	0	0	0	0
305:	0	0	1	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	1	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	1	0	0	0	0

Sample Title: 17

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	1	0
401:	0	0	0	0	0	0	0	1
409:	0	0	1	1	0	1	1	0
417:	1	0	1	0	1	0	0	0
425:	0	0	2	1	0	0	0	0
433:	1	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	1
457:	0	1	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	1	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	1
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	1	0
521:	1	0	0	0	0	1	0	1
529:	0	1	0	0	0	0	0	1
537:	0	2	0	0	0	0	0	1
545:	1	0	0	0	1	0	0	0
553:	1	1	1	1	0	1	0	1
561:	0	1	0	0	0	1	0	1
569:	0	0	2	0	2	2	3	2
577:	1	4	2	2	4	1	4	2
585:	4	9	7	4	6	3	11	7
593:	9	9	7	2	3	9	11	8
601:	7	2	6	10	10	12	7	18
609:	13	10	8	8	13	14	11	7
617:	7	4	6	2	0	0	1	1
625:	0	0	0	0	0	0	0	0
633:	1	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	1	0
665:	0	0	0	0	0	0	1	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	1	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	2	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 17

Channel								
809:	1	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	1	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/9/15

Sample Description: FEEBRIS1D-14.082-084
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-UU
Sample Identification: 18
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 122514
Reagent Blank: <not performed>

Sample Size: 1.106E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:51 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.598 mL
Effective Efficiency: 0.1310 +/- 0.0089
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.6556 +/- 0.0458

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

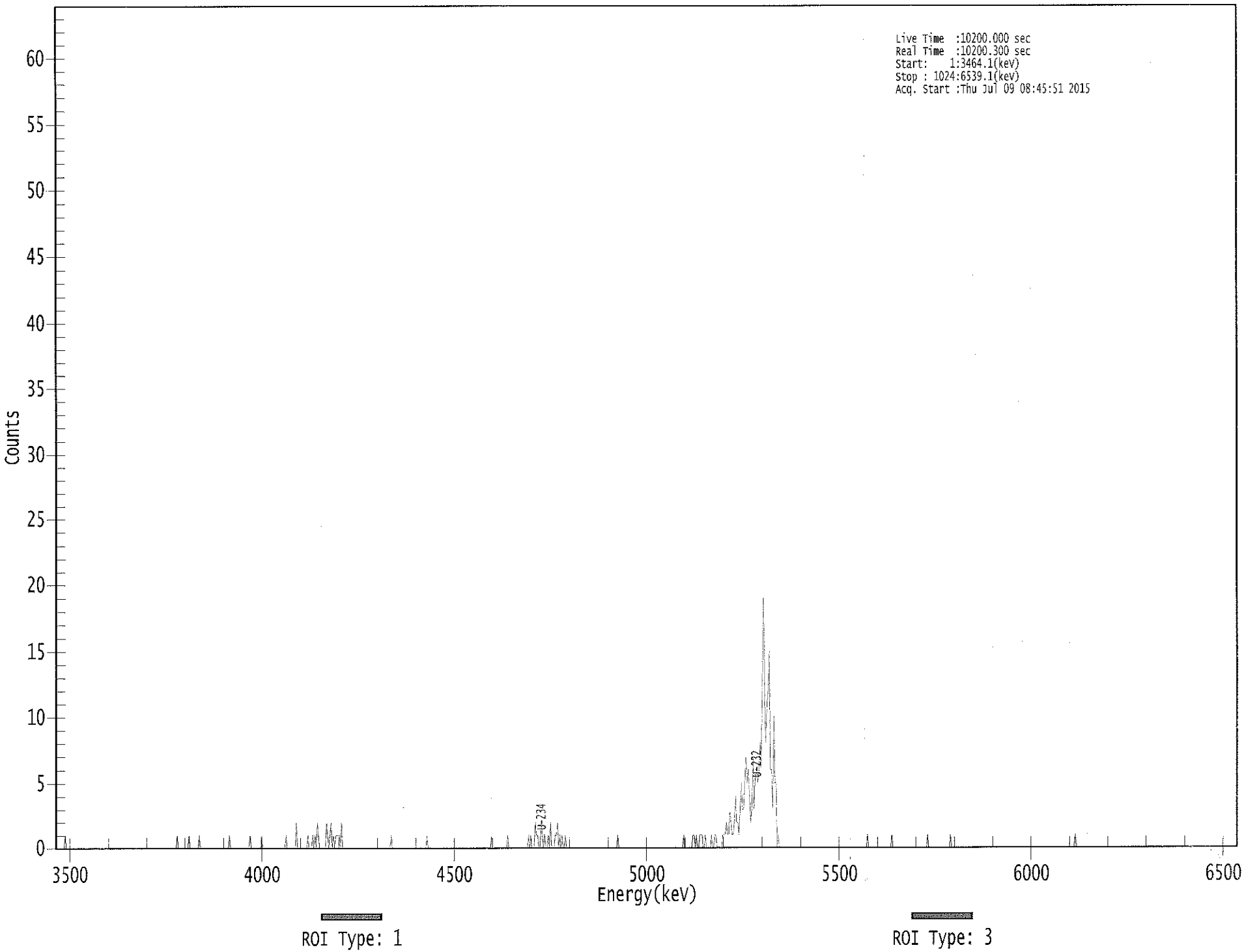
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.288	247.32	12.48	0.68	0.00E+000	9.2
U-234		4.730	21.66	42.50	0.34	0.00E+000	4.5
U-235		4.382	0.98	294.85	1.02	0.00E+000	3.0
U-238		4.152	22.49	41.87	0.51	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	4.54E+000 +/- 6.02E-001	1.03E-001 +/- 1.37E-002
U-234	0.993	4761.50*	3.97E-001 +/- 1.77E-001	8.76E-002 +/- 1.16E-002
U-235	1.000	4385.50*	2.22E-002 +/- 6.54E-002	1.42E-001 +/- 1.89E-002
U-238	0.992	4184.40*	4.10E-001 +/- 1.80E-001	9.57E-002 +/- 1.27E-002

0000122500.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 18

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	1	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	1	0	0	0	0	0	0
113:	0	0	0	1	0	0	0	0
121:	0	0	0	0	1	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	1	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	1	0	0	0	0	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	1
201:	0	0	0	0	0	0	0	0
209:	2	0	0	0	0	0	0	0
217:	0	0	1	0	0	0	1	0
225:	1	0	2	1	0	0	0	0
233:	0	0	2	1	0	1	2	0
241:	1	0	1	1	1	1	0	2
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	1	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	1	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 18

Channel								
377:	0	1	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	1
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	1	0	1	0	0	0	2
417:	1	1	0	0	2	1	0	1
425:	0	0	1	0	2	0	0	0
433:	1	1	2	0	1	0	1	0
441:	0	1	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	1	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	1
545:	0	0	0	0	0	0	0	1
553:	1	0	1	0	0	1	1	1
561:	0	0	1	0	0	0	0	1
569:	0	0	1	1	0	0	0	0
577:	0	1	1	1	2	1	1	3
585:	2	1	1	2	4	2	2	1
593:	3	5	3	3	5	7	5	6
601:	4	2	3	7	3	6	6	5
609:	6	8	6	14	19	11	8	11
617:	12	15	6	6	3	10	5	5
625:	0	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	1	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	1	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	1	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 18

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	1	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

ICB 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-14.054-056
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-UU
Sample Identification: 19
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 122515
Reagent Blank: <not performed>

Sample Size: 1.150E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:53 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.599 mL
Effective Efficiency: 0.1916 +/- 0.0110
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.0431 +/- 0.0626

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

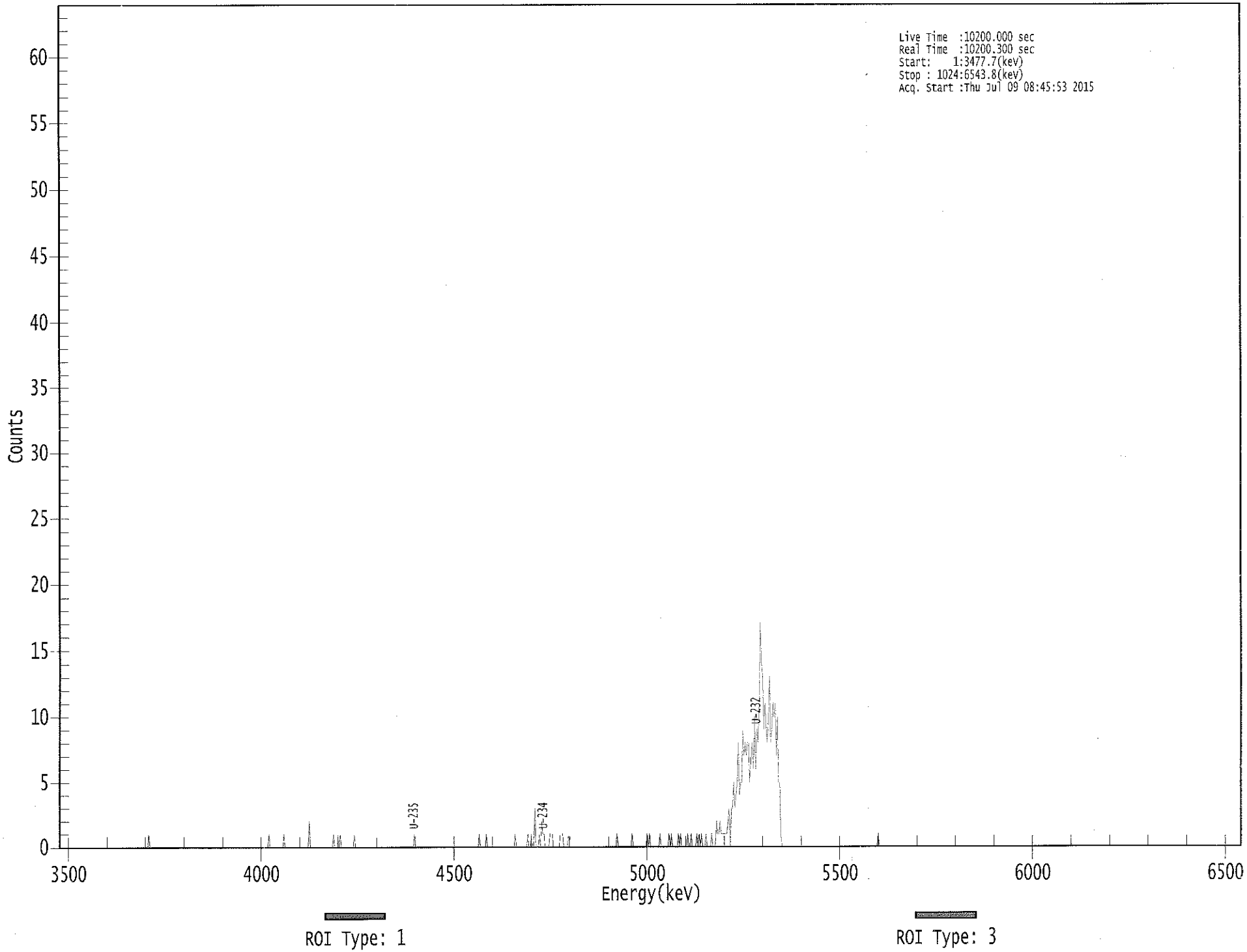
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.285	362.00	10.32	0.00	0.00E+000	22.0
U-234		4.734	17.83	46.68	0.17	0.00E+000	3.0
U-235		4.398	0.83	239.53	0.17	0.00E+000	3.0
U-238		4.146	7.83	70.93	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	4.37E+000 +/- 4.91E-001	7.23E-002 +/- 8.14E-003
U-234	0.995	4761.50*	2.15E-001 +/- 1.03E-001	5.03E-002 +/- 5.66E-003
U-235	0.999	4385.50*	1.23E-002 +/- 2.96E-002	6.20E-002 +/- 6.98E-003
U-238	0.989	4184.40*	9.39E-002 +/- 6.75E-002	5.01E-002 +/- 5.64E-003

0000122501.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 19

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	1	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	1	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	2	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	1	0	0
241:	0	1	0	1	0	0	0	0
249:	0	0	0	0	0	0	0	1
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	1	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	1	0	0	0	0

369:	0	1	0	0	0	0	0	0

Sample Title: 19

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	1	0	0	0	0	0
401:	0	0	0	0	0	1	0	0
409:	1	0	0	3	0	0	0	1
417:	0	2	1	1	0	0	0	0
425:	1	1	1	0	0	0	0	0
433:	0	1	1	1	0	0	0	0
441:	1	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	0	0	0	0	0	0	1
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	1	0	1	0
513:	0	0	0	0	0	0	0	1
521:	0	0	0	0	0	0	0	1
529:	0	1	0	0	0	0	0	1
537:	0	1	0	0	0	0	0	1
545:	0	0	1	0	0	0	0	1
553:	0	1	0	1	0	0	0	1
561:	0	0	0	0	1	0	0	0
569:	2	1	1	2	1	1	1	1
577:	1	1	2	3	0	3	3	5
585:	3	4	5	8	4	5	5	9
593:	7	8	7	8	8	5	7	8
601:	6	10	6	9	8	11	17	14
609:	13	9	11	9	8	10	13	8
617:	9	11	10	11	7	10	5	5
625:	1	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	1	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 19

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

ICP 7/9/15

Sample Description: FEEBRIS1D-09.088-089
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-UU
Sample Identification: 20
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 122516
Reagent Blank: <not performed>

Sample Size: 2.676E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/11/2015 5:39:08 AM
Acquisition Date/Time: 7/9/2015 8:45:56 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.600 mL
Effective Efficiency: 0.1873 +/- 0.0109
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 1.0544 +/- 0.0639

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

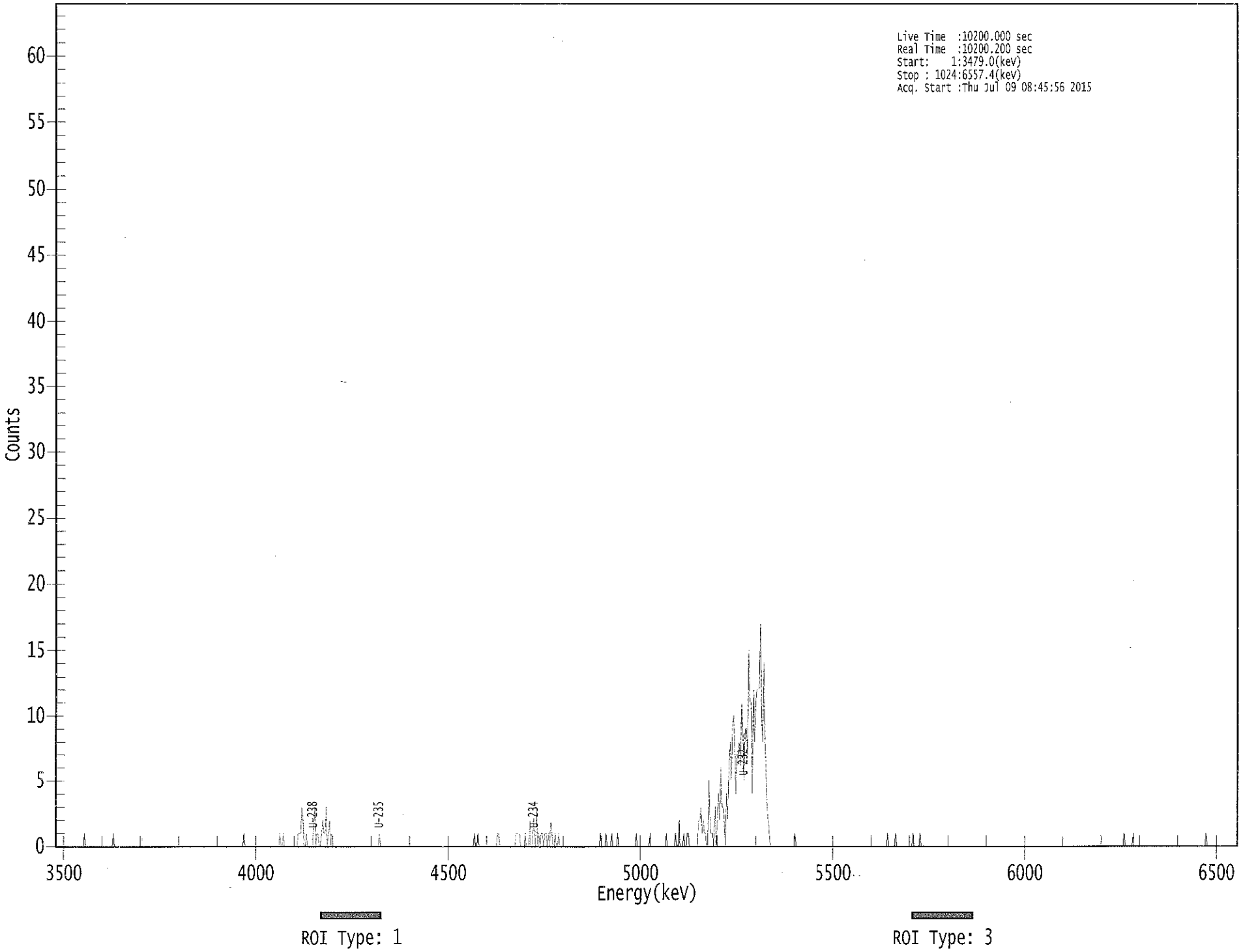
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.271	354.47	10.44	1.53	0.00E+000	19.8
U-234		4.724	24.81	40.44	1.19	0.00E+000	3.0
U-235		4.322	-1.04	218.71	2.04	0.00E+000	3.0
U-238		4.150	27.13	39.12	1.87	0.00E+000	6.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.993	5302.50*	1.88E+001 +/- 2.14E+000	3.77E-001 +/- 4.29E-002
U-234	0.990	4761.50*	1.31E+000 +/- 5.52E-001	3.49E-001 +/- 3.97E-002
U-235	0.971	4385.50*	-6.80E-002 +/- 1.49E-001	5.09E-001 +/- 5.79E-002
U-238	0.991	4184.40*	1.43E+000 +/- 5.83E-001	3.99E-001 +/- 4.54E-002

0000122493.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 20

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	1	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	1	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	1	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	1	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	1	1	1	3	2	0
217:	0	1	0	0	0	0	0	1
225:	3	0	1	1	0	0	1	2
233:	1	1	3	0	1	2	0	1
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	1	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	0	0	1	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 20

Channel								
377:	0	0	0	0	0	0	1	1
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	1	1
401:	1	1	0	0	0	0	1	0
409:	0	0	2	0	0	2	1	0
417:	3	0	1	0	1	1	0	1
425:	1	0	1	0	2	1	0	0
433:	1	0	0	1	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	1	0	0	0
481:	0	1	0	0	0	0	1	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	1	0
505:	0	0	0	0	0	0	0	0
513:	0	0	1	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	1	0	0	0	0	0	0	0
537:	1	0	0	2	0	0	0	1
545:	0	0	1	1	0	0	0	0
553:	0	0	0	0	2	2	3	1
561:	2	1	1	0	0	5	1	1
569:	1	0	3	0	2	4	2	6
577:	3	3	2	0	4	2	6	8
585:	5	9	10	8	4	7	7	8
593:	6	11	9	5	9	9	7	15
601:	11	11	4	12	8	11	12	12
609:	12	17	10	8	14	8	6	3
617:	2	1	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	1
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	1
721:	0	0	0	0	0	0	1	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	1	0	0
745:	0	0	0	1	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 20

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	1	0	0	0
929:	0	0	0	0	1	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	1	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/9/2015 5:50:37 AM

Apex-Alpha™

QA SUMMARY REPORT
Review Of QA Results - Pulser Check

Date : 7/9/2015
Time : 5:50:37 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/9/2015 5:24:55 AM
Alpha_004	21f	ALL	Passed	7/9/2015 5:24:56 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/9/2015 5:24:58 AM
Alpha_011	21f	ALL	Passed	7/9/2015 5:24:59 AM
Alpha_012	21f	ALL	Passed	7/9/2015 5:25:00 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/9/2015 5:25:00 AM
Alpha_015	21f	Peak Energy	Action	7/9/2015 5:25:01 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:02 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:04 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:06 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:08 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:09 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	7/9/2015 5:25:12 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:14 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:16 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:19 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:22 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:25 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:27 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:30 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:33 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:35 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:38 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:41 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:44 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:47 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:49 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:52 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	7/9/2015 5:25:55 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:25:58 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:26:01 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:26:04 AM

Review of QA Results - Pulser Check

7/9/2015 5:50:37 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:26:07 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/9/2015 5:26:10 AM

APPROVED BY: _____

APPROVAL DATE: 7/15

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

15-06114
ThISO
Run 1

Work Order	15-06114
Analysis Code	ThISO
Run	1
Date Received	6/29/2015
Lab Deadline	7/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/29/15 00:00	1.0000E+00
02	MBL	BLANK		06/29/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-09.099-100	47	06/17/15 13:14	1.0164E+00
04	DO	FEEBRIS1D-09.099-100	47	06/17/15 13:14	1.0164E+00
05	TRG	FEEBRIS1D-09.078-079	54	06/17/15 13:00	1.1124E+00
06	TRG	FEEBRIS1D-01.007-009	53	06/22/15 10:07	1.0600E+00
07	TRG	FEEBRIS1D-01.024-027	44	06/22/15 10:15	1.0260E+00
08	TRG	FEEBRIS1D-02.027-030	63	06/22/15 11:04	9.0000E-01
09	TRG	FEEBRIS1D-02.020-023	66	06/22/15 11:20	1.0540E+00
10	TRG	FEEBRIS1D-02.036-037	63	06/22/15 11:30	1.0500E+00
11	TRG	FEEBRIS1D-18.013-014	48	06/22/15 12:47	1.0540E+00
12	TRG	FEEBRIS1D-18.038-041	37	06/22/15 12:56	1.0800E+00
13	TRG	FEEBRIS1D-18.044-046	61	06/22/15 13:04	1.0340E+00
14	TRG	FEEBRIS1D-17.030-031	48	06/22/15 14:56	1.0512E+00
15	TRG	FEEBRIS1D-17.033-036	65	06/22/15 15:03	1.0224E+00
16	TRG	FEEBRIS1D-13.093-094	61	06/12/15 14:15	1.2040E+00
17	TRG	FEEBRIS1D-13.085-086	60	06/12/15 14:32	1.3020E+00
18	TRG	FEEBRIS1D-14.082-084	49	06/12/15 14:51	1.1060E+00
19	TRG	FEEBRIS1D-14.054-056	40	06/12/15 14:58	1.1500E+00
20	TRG	FEEBRIS1D-09.088-089	78	06/11/15 08:55	1.0704E+00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4700	10.6		0.00								
02	MBL	0.2345	5.3		0.00								
03	DUP	0.2335	5.2		0.00								
04	DO	0.2334	5.2		0.00								
05	TRG	0.2329	5.2		0.00								
06	TRG	0.2331	5.2		0.00								
07	TRG	0.2330	5.2		0.00								
08	TRG	0.2318	5.2		0.00								
09	TRG	0.2314	5.2		0.00								
10	TRG	0.2317	5.2		0.00								
11	TRG	0.2310	5.2		0.00								
12	TRG	0.2314	5.2		0.00								
13	TRG	0.2312	5.2		0.00								
14	TRG	0.2313	5.2		0.00								
15	TRG	0.2308	5.2		0.00								
16	TRG	0.2311	5.2		0.00								
17	TRG	0.2306	5.2		0.00								
18	TRG	0.2307	5.2		0.00								
19	TRG	0.2309	5.2		0.00								
20	TRG	0.2309	5.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

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Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			06/30/15 09:46	JWOLFE				
02	MBL			06/30/15 09:46	JWOLFE				
03	DUP			06/30/15 09:46	JWOLFE				
04	DO	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
05	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
06	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
07	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
08	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
09	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
10	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
11	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
12	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
13	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
14	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
15	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
16	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
17	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
18	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
19	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				
20	TRG	07/01/15 07:40	KSALLINGS	06/30/15 09:46	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-06114-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06114
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.68E+00	9.59E-01	9.41E-02	4.86E+00	116.84	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	-1.21E-02	4.21E-02	1.19E-01					OK	OK
03	TH-228	DUP	FEEBRIS1D-09.099-100	pCi/g	2.05E-01	1.12E-01	6.70E-02				NA	OK	
04	TH-228	DO	FEEBRIS1D-09.099-100	pCi/g	6.01E-02	5.99E-02	7.02E-02					OK	
05	TH-228	TRG	FEEBRIS1D-09.078-079	pCi/g	1.11E-01	9.16E-02	1.14E-01					OK	
06	TH-228	TRG	FEEBRIS1D-01.007-009	pCi/g	2.65E-01	1.35E-01	1.13E-01					OK	
07	TH-228	TRG	FEEBRIS1D-01.024-027	pCi/g	5.83E-02	6.22E-02	8.62E-02					OK	
08	TH-228	TRG	FEEBRIS1D-02.027-030	pCi/g	3.05E-01	1.42E-01	9.16E-02					OK	
09	TH-228	TRG	FEEBRIS1D-02.020-023	pCi/g	3.06E-01	1.26E-01	6.74E-02					OK	
10	TH-228	TRG	FEEBRIS1D-02.036-037	pCi/g	6.03E-01	2.23E-01	1.05E-01					OK	
11	TH-228	TRG	FEEBRIS1D-18.013-014	pCi/g	2.73E-01	1.24E-01	6.03E-02					OK	
12	TH-228	TRG	FEEBRIS1D-18.038-041	pCi/g	5.77E-02	6.53E-02	9.13E-02					OK	
13	TH-228	TRG	FEEBRIS1D-18.044-046	pCi/g	5.81E-01	2.08E-01	6.24E-02					OK	
14	TH-228	TRG	FEEBRIS1D-17.030-031	pCi/g	1.31E-01	9.05E-02	8.83E-02					OK	
15	TH-228	TRG	FEEBRIS1D-17.033-036	pCi/g	1.83E-01	1.18E-01	1.19E-01					OK	
16	TH-228	TRG	FEEBRIS1D-13.093-094	pCi/g	1.36E-01	8.47E-02	7.57E-02					OK	
17	TH-228	TRG	FEEBRIS1D-13.085-086	pCi/g	3.96E-01	1.47E-01	7.29E-02					OK	
18	TH-228	TRG	FEEBRIS1D-14.082-084	pCi/g	2.61E-01	1.18E-01	5.76E-02					OK	
19	TH-228	TRG	FEEBRIS1D-14.054-056	pCi/g	2.49E-02	5.02E-02	9.36E-02					OK	
20	TH-228	TRG	FEEBRIS1D-09.088-089	pCi/g	1.87E-01	1.04E-01	8.32E-02					OK	

Work Order: 15-06114-ThISO-1

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Analysis Code: ThISO
Eberline Services Work Order: 15-06114
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Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	06/29/15 00:00	1.00E+00	101.59	0.00	0.00			
02	TH-228	MBL	06/29/15 00:00	1.00E+00	121.98	0.00	0.00			
03	TH-228	DUP	06/17/15 13:14	1.02E+00	120.54	0.00	0.00			
04	TH-228	DO	06/17/15 13:14	1.02E+00	121.43	0.00	0.00			
05	TH-228	TRG	06/17/15 13:00	1.11E+00	99.86	0.00	0.00			
06	TH-228	TRG	06/22/15 10:07	1.06E+00	117.00	0.00	0.00			
07	TH-228	TRG	06/22/15 10:15	1.03E+00	115.74	0.00	0.00			
08	TH-228	TRG	06/22/15 11:04	9.00E-01	115.17	0.00	0.00			
09	TH-228	TRG	06/22/15 11:20	1.05E+00	137.84	0.00	0.00			
10	TH-228	TRG	06/22/15 11:30	1.05E+00	89.09	0.00	0.00			
11	TH-228	TRG	06/22/15 12:47	1.05E+00	118.52	0.00	0.00			
12	TH-228	TRG	06/22/15 12:56	1.08E+00	106.60	0.00	0.00			
13	TH-228	TRG	06/22/15 13:04	1.03E+00	90.08	0.00	0.00			
14	TH-228	TRG	06/22/15 14:56	1.05E+00	103.10	0.00	0.00			
15	TH-228	TRG	06/22/15 15:03	1.02E+00	92.06	0.00	0.00			
16	TH-228	TRG	06/12/15 14:15	1.20E+00	113.16	0.00	0.00			
17	TH-228	TRG	06/12/15 14:32	1.30E+00	94.53	0.00	0.00			
18	TH-228	TRG	06/12/15 14:51	1.11E+00	111.14	0.00	0.00			
19	TH-228	TRG	06/12/15 14:58	1.15E+00	122.03	0.00	0.00			
20	TH-228	TRG	06/11/15 08:55	1.07E+00	122.09	0.00	0.00			

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Work Order: 15-06114-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	07/08/15 08:57		A_Spec	Alpha_055	170	3.40 E+02	4.00 E-03	15.6
02	TH-228	MBL	07/08/15 08:57		A_Spec	Alpha_056	170	-8.90 E-01	1.70 E-02	16
03	TH-228	DUP	07/08/15 08:57		A_Spec	Alpha_057	170	1.47 E+01	2.00 E-03	15.8
04	TH-228	DO	07/08/15 08:57		A_Spec	Alpha_058	170	4.49 E+00	3.00 E-03	16.4
05	TH-228	TRG	07/08/15 08:57		A_Spec	Alpha_059	170	7.79 E+00	1.30 E-02	17.2
06	TH-228	TRG	07/08/15 08:57		A_Spec	Alpha_060	170	1.88 E+01	1.30 E-02	15.4
07	TH-228	TRG	07/08/15 11:59		A_Spec	Alpha_033	170	4.64 E+00	8.00 E-03	18
08	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_034	170	2.10 E+01	6.00 E-03	17.9
09	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_035	170	2.71 E+01	5.00 E-03	16.5
10	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_036	170	3.78 E+01	7.00 E-03	18.1
11	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_037	170	2.17 E+01	2.00 E-03	17.1
12	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_038	170	3.98 E+00	6.00 E-03	16.2
13	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_039	170	3.88 E+01	1.00 E-03	19.3
14	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_040	170	9.81 E+00	7.00 E-03	18.6
15	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_041	170	1.20 E+01	1.20 E-02	18.7
16	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_042	170	1.18 E+01	7.00 E-03	17.4
17	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_043	170	3.58 E+01	7.00 E-03	20
18	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_044	170	2.17 E+01	2.00 E-03	18.4
19	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_046	170	2.28 E+00	1.60 E-02	17.8
20	TH-228	TRG	07/08/15 12:00		A_Spec	Alpha_047	170	1.48 E+01	7.00 E-03	16.5

Preliminary Data Report & Analytical Calculations

Work Order: 15-06114-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.37E+00	1.05E+00	1.00E-01	5.28E+00	120.59	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	5.62E-02	6.76E-02	1.03E-01					OK	OK
03	TH-230	DUP	FEEBRIS1D-09.099-100	pCi/g	3.41E+00	6.98E-01	8.24E-02				OK	OK	
04	TH-230	DO	FEEBRIS1D-09.099-100	pCi/g	2.84E+00	5.90E-01	6.88E-02					OK	
05	TH-230	TRG	FEEBRIS1D-09.078-079	pCi/g	3.43E-01	1.49E-01	6.65E-02					OK	
06	TH-230	TRG	FEEBRIS1D-01.007-009	pCi/g	1.65E+00	4.05E-01	8.31E-02					OK	
07	TH-230	TRG	FEEBRIS1D-01.024-027	pCi/g	1.21E+00	3.05E-01	6.99E-02					OK	
08	TH-230	TRG	FEEBRIS1D-02.027-030	pCi/g	6.85E-01	2.22E-01	5.98E-02					OK	
09	TH-230	TRG	FEEBRIS1D-02.020-023	pCi/g	8.41E-01	2.28E-01	4.63E-02					OK	
10	TH-230	TRG	FEEBRIS1D-02.036-037	pCi/g	7.18E-01	2.44E-01	7.51E-02					OK	
11	TH-230	TRG	FEEBRIS1D-18.013-014	pCi/g	5.57E-01	1.86E-01	5.19E-02					OK	
12	TH-230	TRG	FEEBRIS1D-18.038-041	pCi/g	5.97E+00	1.17E+00	7.49E-02					OK	
13	TH-230	TRG	FEEBRIS1D-18.044-046	pCi/g	1.29E+00	3.49E-01	6.15E-02					OK	
14	TH-230	TRG	FEEBRIS1D-17.030-031	pCi/g	3.54E-01	1.46E-01	5.51E-02					OK	
15	TH-230	TRG	FEEBRIS1D-17.033-036	pCi/g	4.00E+00	8.36E-01	7.20E-02					OK	
16	TH-230	TRG	FEEBRIS1D-13.093-094	pCi/g	4.27E+00	8.11E-01	6.71E-02					OK	
17	TH-230	TRG	FEEBRIS1D-13.085-086	pCi/g	6.17E-01	1.90E-01	6.46E-02					OK	
18	TH-230	TRG	FEEBRIS1D-14.082-084	pCi/g	7.39E-01	2.17E-01	4.91E-02					OK	
19	TH-230	TRG	FEEBRIS1D-14.054-056	pCi/g	2.07E-01	1.02E-01	7.57E-02					OK	
20	TH-230	TRG	FEEBRIS1D-09.088-089	pCi/g	3.16E+02	5.05E+01	6.46E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06114-ThISO-1

Run	Analysis Code	Eberline Services Work Order	Client
1	ThISO	15-06114	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	06/29/15 00:00	1.00E+00	101.59	0.00	0.00			
02	TH-230	MBL	06/29/15 00:00	1.00E+00	121.98	0.00	0.00			
03	TH-230	DUP	06/17/15 13:14	1.02E+00	120.54	0.00	0.00			
04	TH-230	DO	06/17/15 13:14	1.02E+00	121.43	0.00	0.00			
05	TH-230	TRG	06/17/15 13:00	1.11E+00	99.86	0.00	0.00			
06	TH-230	TRG	06/22/15 10:07	1.06E+00	117.00	0.00	0.00			
07	TH-230	TRG	06/22/15 10:15	1.03E+00	115.74	0.00	0.00			
08	TH-230	TRG	06/22/15 11:04	9.00E-01	115.17	0.00	0.00			
09	TH-230	TRG	06/22/15 11:20	1.05E+00	137.84	0.00	0.00			
10	TH-230	TRG	06/22/15 11:30	1.05E+00	89.09	0.00	0.00			
11	TH-230	TRG	06/22/15 12:47	1.05E+00	118.52	0.00	0.00			
12	TH-230	TRG	06/22/15 12:56	1.08E+00	106.60	0.00	0.00			
13	TH-230	TRG	06/22/15 13:04	1.03E+00	90.08	0.00	0.00			
14	TH-230	TRG	06/22/15 14:56	1.05E+00	103.10	0.00	0.00			
15	TH-230	TRG	06/22/15 15:03	1.02E+00	92.06	0.00	0.00			
16	TH-230	TRG	06/12/15 14:15	1.20E+00	113.16	0.00	0.00			
17	TH-230	TRG	06/12/15 14:32	1.30E+00	94.53	0.00	0.00			
18	TH-230	TRG	06/12/15 14:51	1.11E+00	111.14	0.00	0.00			
19	TH-230	TRG	06/12/15 14:58	1.15E+00	122.03	0.00	0.00			
20	TH-230	TRG	06/11/15 08:55	1.07E+00	122.09	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06114-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	07/08/15 08:57		A_Spec	Alpha_055	170	3.81 E+02	5.00 E-03	15.6
02	TH-230	MBL	07/08/15 08:57		A_Spec	Alpha_056	170	4.13 E+00	1.10 E-02	16
03	TH-230	DUP	07/08/15 08:57		A_Spec	Alpha_057	170	2.48 E+02	0.00 E+00	15.8
04	TH-230	DO	07/08/15 08:57		A_Spec	Alpha_058	170	2.16 E+02	3.00 E-03	16.4
05	TH-230	TRG	07/08/15 08:57		A_Spec	Alpha_059	170	2.47 E+01	2.00 E-03	17.2
06	TH-230	TRG	07/08/15 08:57		A_Spec	Alpha_060	170	1.19 E+02	5.00 E-03	15.4
07	TH-230	TRG	07/08/15 11:59		A_Spec	Alpha_033	170	9.73 E+01	4.00 E-03	18
08	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_034	170	4.78 E+01	1.00 E-03	17.9
09	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_035	170	7.58 E+01	1.00 E-03	16.5
10	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_036	170	4.57 E+01	2.00 E-03	18.1
11	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_037	170	4.48 E+01	1.00 E-03	17.1
12	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_038	170	4.18 E+02	3.00 E-03	16.2
13	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_039	170	8.78 E+01	1.00 E-03	19.3
14	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_040	170	2.68 E+01	1.00 E-03	18.6
15	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_041	170	2.66 E+02	2.00 E-03	18.7
16	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_042	170	3.81 E+02	5.00 E-03	17.4
17	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_043	170	5.72 E+01	5.00 E-03	20
18	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_044	170	6.28 E+01	1.00 E-03	18.4
19	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_046	170	1.95 E+01	9.00 E-03	17.8
20	TH-230	TRG	07/08/15 12:00		A_Spec	Alpha_047	170	2.57 E+04	3.00 E-03	16.5

Preliminary Data Report & Analytical Calculations

Work Order: 15-06114-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06114
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	5.05E+00	8.73E-01	6.96E-02	4.86E+00	103.90	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	5.40E-02	6.11E-02	8.55E-02					OK	OK
03	TH-232	DUP	FEEBRIS1D-09.099-100	pCi/g	1.92E-01	1.09E-01	8.22E-02				OK	OK	
04	TH-232	DO	FEEBRIS1D-09.099-100	pCi/g	1.63E-01	9.64E-02	6.87E-02					OK	
05	TH-232	TRG	FEEBRIS1D-09.078-079	pCi/g	1.90E-01	1.07E-01	6.64E-02					OK	
06	TH-232	TRG	FEEBRIS1D-01.007-009	pCi/g	3.95E-01	1.60E-01	7.27E-02					OK	
07	TH-232	TRG	FEEBRIS1D-01.024-027	pCi/g	1.07E-01	7.48E-02	5.91E-02					OK	
08	TH-232	TRG	FEEBRIS1D-02.027-030	pCi/g	1.81E-01	1.05E-01	6.83E-02					OK	
09	TH-232	TRG	FEEBRIS1D-02.020-023	pCi/g	4.52E-01	1.55E-01	4.62E-02					OK	
10	TH-232	TRG	FEEBRIS1D-02.036-037	pCi/g	7.01E-01	2.40E-01	7.50E-02					OK	
11	TH-232	TRG	FEEBRIS1D-18.013-014	pCi/g	1.57E-01	9.14E-02	5.93E-02					OK	
12	TH-232	TRG	FEEBRIS1D-18.038-041	pCi/g	5.46E-02	5.68E-02	5.95E-02					OK	
13	TH-232	TRG	FEEBRIS1D-18.044-046	pCi/g	7.79E-01	2.50E-01	8.82E-02					OK	
14	TH-232	TRG	FEEBRIS1D-17.030-031	pCi/g	1.51E-01	9.31E-02	6.91E-02					OK	
15	TH-232	TRG	FEEBRIS1D-17.033-036	pCi/g	1.85E-01	1.20E-01	1.29E-01					OK	
16	TH-232	TRG	FEEBRIS1D-13.093-094	pCi/g	2.63E-01	1.16E-01	5.87E-02					OK	
17	TH-232	TRG	FEEBRIS1D-13.085-086	pCi/g	5.17E-01	1.70E-01	6.46E-02					OK	
18	TH-232	TRG	FEEBRIS1D-14.082-084	pCi/g	3.36E-01	1.35E-01	5.61E-02					OK	
19	TH-232	TRG	FEEBRIS1D-14.054-056	pCi/g	2.06E-02	4.91E-02	9.49E-02					OK	
20	TH-232	TRG	FEEBRIS1D-09.088-089	pCi/g	1.94E+00	4.34E-01	7.35E-02					OK	

Work Order: 15-06114-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06114	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	06/29/15 00:00	1.00E+00	101.59	0.00	0.00			
02	TH-232	MBL	06/29/15 00:00	1.00E+00	121.98	0.00	0.00			
03	TH-232	DUP	06/17/15 13:14	1.02E+00	120.54	0.00	0.00			
04	TH-232	DO	06/17/15 13:14	1.02E+00	121.43	0.00	0.00			
05	TH-232	TRG	06/17/15 13:00	1.11E+00	99.86	0.00	0.00			
06	TH-232	TRG	06/22/15 10:07	1.06E+00	117.00	0.00	0.00			
07	TH-232	TRG	06/22/15 10:15	1.03E+00	115.74	0.00	0.00			
08	TH-232	TRG	06/22/15 11:04	9.00E-01	115.17	0.00	0.00			
09	TH-232	TRG	06/22/15 11:20	1.05E+00	137.84	0.00	0.00			
10	TH-232	TRG	06/22/15 11:30	1.05E+00	89.09	0.00	0.00			
11	TH-232	TRG	06/22/15 12:47	1.05E+00	118.52	0.00	0.00			
12	TH-232	TRG	06/22/15 12:56	1.08E+00	106.60	0.00	0.00			
13	TH-232	TRG	06/22/15 13:04	1.03E+00	90.08	0.00	0.00			
14	TH-232	TRG	06/22/15 14:56	1.05E+00	103.10	0.00	0.00			
15	TH-232	TRG	06/22/15 15:03	1.02E+00	92.06	0.00	0.00			
16	TH-232	TRG	06/12/15 14:15	1.20E+00	113.16	0.00	0.00			
17	TH-232	TRG	06/12/15 14:32	1.30E+00	94.53	0.00	0.00			
18	TH-232	TRG	06/12/15 14:51	1.11E+00	111.14	0.00	0.00			
19	TH-232	TRG	06/12/15 14:58	1.15E+00	122.03	0.00	0.00			
20	TH-232	TRG	06/11/15 08:55	1.07E+00	122.09	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06114
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	07/08/15 08:57		A_Spec	Alpha_055	170	3.03 E+02	1.00 E-03	15.6
02	TH-232	MBL	07/08/15 08:57		A_Spec	Alpha_056	170	3.98 E+00	6.00 E-03	16
03	TH-232	DUP	07/08/15 08:57		A_Spec	Alpha_057	170	1.40 E+01	0.00 E+00	15.8
04	TH-232	DO	07/08/15 08:57		A_Spec	Alpha_058	170	1.25 E+01	3.00 E-03	16.4
05	TH-232	TRG	07/08/15 08:57		A_Spec	Alpha_059	170	1.37 E+01	2.00 E-03	17.2
06	TH-232	TRG	07/08/15 08:57		A_Spec	Alpha_060	170	2.85 E+01	3.00 E-03	15.4
07	TH-232	TRG	07/08/15 11:59		A_Spec	Alpha_033	170	8.66 E+00	2.00 E-03	18
08	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_034	170	1.27 E+01	2.00 E-03	17.9
09	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_035	170	4.08 E+01	1.00 E-03	16.5
10	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_036	170	4.47 E+01	2.00 E-03	18.1
11	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_037	170	1.27 E+01	2.00 E-03	17.1
12	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_038	170	3.83 E+00	1.00 E-03	16.2
13	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_039	170	5.30 E+01	0.00 E+00	19.3
14	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_040	170	1.15 E+01	3.00 E-03	18.6
15	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_041	170	1.23 E+01	1.60 E-02	18.7
16	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_042	170	2.35 E+01	3.00 E-03	17.4
17	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_043	170	4.80 E+01	0.00 E+00	20
18	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_044	170	2.87 E+01	2.00 E-03	18.4
19	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_046	170	1.94 E+00	1.80 E-02	17.8
20	TH-232	TRG	07/08/15 12:00		A_Spec	Alpha_047	170	1.58 E+02	5.00 E-03	16.5

Work Order: 15-06114-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06114
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	4.36E-02	6.33E-02	1.05E-01					OK	OK
03	TH-227	DUP	FEEBRIS1D-09.099-100	pCi/g	-1.20E-02	2.96E-02	8.44E-02				INV	OK	
04	TH-227	DO	FEEBRIS1D-09.099-100	pCi/g	3.81E-02	4.63E-02	5.61E-02					OK	
05	TH-227	TRG	FEEBRIS1D-09.078-079	pCi/g	1.16E-02	4.16E-02	9.40E-02					OK	
06	TH-227	TRG	FEEBRIS1D-01.007-009	pCi/g	7.81E-02	7.00E-02	7.46E-02					OK	
07	TH-227	TRG	FEEBRIS1D-01.024-027	pCi/g	1.68E-02	3.63E-02	7.16E-02					OK	
08	TH-227	TRG	FEEBRIS1D-02.027-030	pCi/g	1.22E-02	2.92E-02	6.13E-02					OK	
09	TH-227	TRG	FEEBRIS1D-02.020-023	pCi/g	-7.73E-03	2.36E-02	6.41E-02					OK	
10	TH-227	TRG	FEEBRIS1D-02.036-037	pCi/g	7.48E-02	7.99E-02	1.10E-01					OK	
11	TH-227	TRG	FEEBRIS1D-18.013-014	pCi/g	1.13E-01	7.72E-02	5.32E-02					OK	
12	TH-227	TRG	FEEBRIS1D-18.038-041	pCi/g	9.75E-02	7.80E-02	7.00E-02					OK	
13	TH-227	TRG	FEEBRIS1D-18.044-046	pCi/g	1.25E-02	3.01E-02	6.30E-02					OK	
14	TH-227	TRG	FEEBRIS1D-17.030-031	pCi/g	-2.57E-03	2.91E-02	8.91E-02					OK	
15	TH-227	TRG	FEEBRIS1D-17.033-036	pCi/g	3.84E-02	5.36E-02	8.10E-02					OK	
16	TH-227	TRG	FEEBRIS1D-13.093-094	pCi/g	1.23E-01	7.76E-02	5.50E-02					OK	
17	TH-227	TRG	FEEBRIS1D-13.085-086	pCi/g	3.49E-02	4.46E-02	6.63E-02					OK	
18	TH-227	TRG	FEEBRIS1D-14.082-084	pCi/g	3.62E-02	4.76E-02	7.23E-02					OK	
19	TH-227	TRG	FEEBRIS1D-14.054-056	pCi/g	1.42E-03	3.26E-02	8.28E-02					OK	
20	TH-227	TRG	FEEBRIS1D-09.088-089	pCi/g	2.32E+00	4.99E-01	6.63E-02					OK	

Work Order: 15-06114-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-06114

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	06/29/15 00:00	1.00E+00	121.98	0.00	0.00			
03	TH-227	DUP	06/17/15 13:14	1.02E+00	120.54	0.00	0.00			
04	TH-227	DO	06/17/15 13:14	1.02E+00	121.43	0.00	0.00			
05	TH-227	TRG	06/17/15 13:00	1.11E+00	99.86	0.00	0.00			
06	TH-227	TRG	06/22/15 10:07	1.06E+00	117.00	0.00	0.00			
07	TH-227	TRG	06/22/15 10:15	1.03E+00	115.74	0.00	0.00			
08	TH-227	TRG	06/22/15 11:04	9.00E-01	115.17	0.00	0.00			
09	TH-227	TRG	06/22/15 11:20	1.05E+00	137.84	0.00	0.00			
10	TH-227	TRG	06/22/15 11:30	1.05E+00	89.09	0.00	0.00			
11	TH-227	TRG	06/22/15 12:47	1.05E+00	118.52	0.00	0.00			
12	TH-227	TRG	06/22/15 12:56	1.08E+00	106.60	0.00	0.00			
13	TH-227	TRG	06/22/15 13:04	1.03E+00	90.08	0.00	0.00			
14	TH-227	TRG	06/22/15 14:56	1.05E+00	103.10	0.00	0.00			
15	TH-227	TRG	06/22/15 15:03	1.02E+00	92.06	0.00	0.00			
16	TH-227	TRG	06/12/15 14:15	1.20E+00	113.16	0.00	0.00			
17	TH-227	TRG	06/12/15 14:32	1.30E+00	94.53	0.00	0.00			
18	TH-227	TRG	06/12/15 14:51	1.11E+00	111.14	0.00	0.00			
19	TH-227	TRG	06/12/15 14:58	1.15E+00	122.03	0.00	0.00			
20	TH-227	TRG	06/11/15 08:55	1.07E+00	122.09	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06114-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-06114

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
02	TH-227	MBL	07/08/15 08:57		A_Spec	Alpha_056	170	3.13 E+00	1.10 E-02	16
03	TH-227	DUP	07/08/15 08:57		A_Spec	Alpha_057	170	-8.50 E-01	5.00 E-03	15.8
04	TH-227	DO	07/08/15 08:57		A_Spec	Alpha_058	170	2.83 E+00	1.00 E-03	16.4
05	TH-227	TRG	07/08/15 08:57		A_Spec	Alpha_059	170	8.10 E-01	7.00 E-03	17.2
06	TH-227	TRG	07/08/15 08:57		A_Spec	Alpha_060	170	5.49 E+00	3.00 E-03	15.4
07	TH-227	TRG	07/08/15 11:59		A_Spec	Alpha_033	170	1.32 E+00	4.00 E-03	18
08	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_034	170	8.30 E-01	1.00 E-03	17.9
09	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_035	170	-6.80 E-01	4.00 E-03	16.5
10	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_036	170	4.64 E+00	8.00 E-03	18.1
11	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_037	170	8.83 E+00	1.00 E-03	17.1
12	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_038	170	6.66 E+00	2.00 E-03	16.2
13	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_039	170	8.30 E-01	1.00 E-03	19.3
14	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_040	170	-1.90 E-01	7.00 E-03	18.6
15	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_041	170	2.49 E+00	3.00 E-03	18.7
16	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_042	170	1.07 E+01	2.00 E-03	17.4
17	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_043	170	3.15 E+00	5.00 E-03	20
18	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_044	170	3.00 E+00	0.00 E+00	18.4
19	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_046	170	1.30 E-01	1.10 E-02	17.8
20	TH-227	TRG	07/08/15 12:00		A_Spec	Alpha_047	170	1.83 E+02	3.00 E-03	16.5

Count Room Report
Client: AMO Environmental Decisio

15-06114-ThISO-1 (pCi/g) in SO
Tracer ID: Th-18a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/29/15 00:00	1.0000	0.4700	10.5562		0.00		
02	MBL	BLANK	06/29/15 00:00	1.0000	0.2345	5.2669		0.00		
03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	1.0164	0.2335	5.2444		0.00		
04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	1.0164	0.2334	5.2422		0.00		
05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	1.1124	0.2329	5.2309		0.00		
06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	1.0600	0.2331	5.2354		0.00		
07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	1.0260	0.2330	5.2332		0.00		
08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	0.9000	0.2318	5.2062		0.00		
09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	1.0540	0.2314	5.1972		0.00		
10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	1.0500	0.2317	5.2040		0.00		
11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	1.0540	0.2310	5.1883		0.00		
12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	1.0800	0.2314	5.1972		0.00		
13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	1.0340	0.2312	5.1928		0.00		
14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	1.0512	0.2313	5.1950		0.00		
15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	1.0224	0.2308	5.1838		0.00		
16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	1.2040	0.2311	5.1905		0.00		
17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	1.3020	0.2306	5.1793		0.00		
18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	1.1060	0.2307	5.1815		0.00		
19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	1.1500	0.2309	5.1860		0.00		
20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	1.0704	0.2309	5.1860		0.00		

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06114	1	ThISO	6/30/2015 9:43	JWOLFE	JW	

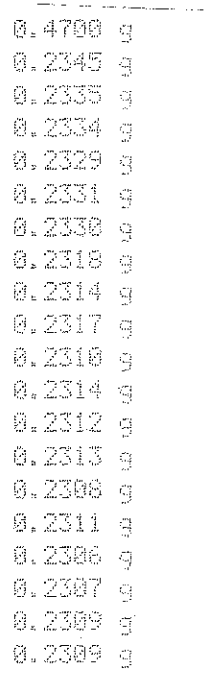
LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Th-228	Th-8b	103.560	6/30/2015	0.100	0.1042				4.86	0.175	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	6/30/2015	0.500	0.4984				5.28	0.143	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	6/30/2015	0.100	0.1042				4.86	0.175	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Th-229	Th-18a	22.460	6/30/2015	0.4700	0.2200
02	Th-229	Th-18a	22.460	6/30/2015	0.2345	0.2200
03	Th-229	Th-18a	22.460	6/30/2015	0.2335	0.2200
04	Th-229	Th-18a	22.460	6/30/2015	0.2334	0.2200
05	Th-229	Th-18a	22.460	6/30/2015	0.2329	0.2200
06	Th-229	Th-18a	22.460	6/30/2015	0.2331	0.2200
07	Th-229	Th-18a	22.460	6/30/2015	0.2330	0.2200
08	Th-229	Th-18a	22.460	6/30/2015	0.2318	0.2200
09	Th-229	Th-18a	22.460	6/30/2015	0.2314	0.2200
10	Th-229	Th-18a	22.460	6/30/2015	0.2317	0.2200
11	Th-229	Th-18a	22.460	6/30/2015	0.2310	0.2200
12	Th-229	Th-18a	22.460	6/30/2015	0.2314	0.2200
13	Th-229	Th-18a	22.460	6/30/2015	0.2312	0.2200
14	Th-229	Th-18a	22.460	6/30/2015	0.2313	0.2200
15	Th-229	Th-18a	22.460	6/30/2015	0.2308	0.2200
16	Th-229	Th-18a	22.460	6/30/2015	0.2311	0.2200
17	Th-229	Th-18a	22.460	6/30/2015	0.2306	0.2200
18	Th-229	Th-18a	22.460	6/30/2015	0.2307	0.2200
19	Th-229	Th-18a	22.460	6/30/2015	0.2309	0.2200
20	Th-229	Th-18a	22.460	6/30/2015	0.2309	0.2200

Balance Printer Tapes

Tracer



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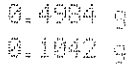


Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/6/2015 6:39 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06114	1	ThISO	grams	7/21/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-09.099-100	DUP		1	11.81	8.47E-02	1.2000E+01	1.0164E+00				
04	FEEBRIS1D-09.099-100	DO		1	11.81	8.47E-02	1.2000E+01	1.0164E+00				
05	FEEBRIS1D-09.078-079	TRG		1	10.79	9.27E-02	1.2000E+01	1.1124E+00				
06	FEEBRIS1D-01.007-009	TRG		1	18.87	5.30E-02	2.0000E+01	1.0600E+00				
07	FEEBRIS1D-01.024-027	TRG		1	11.70	8.55E-02	1.2000E+01	1.0260E+00				
08	FEEBRIS1D-02.027-030	TRG		1	13.33	7.50E-02	1.2000E+01	9.0000E-01				
09	FEEBRIS1D-02.020-023	TRG		1	18.98	5.27E-02	2.0000E+01	1.0540E+00				
10	FEEBRIS1D-02.036-037	TRG		1	19.05	5.25E-02	2.0000E+01	1.0500E+00				
11	FEEBRIS1D-18.013-014	TRG		1	18.98	5.27E-02	2.0000E+01	1.0540E+00				
12	FEEBRIS1D-18.038-041	TRG		1	18.52	5.40E-02	2.0000E+01	1.0800E+00				
13	FEEBRIS1D-18.044-046	TRG		1	19.34	5.17E-02	2.0000E+01	1.0340E+00				
14	FEEBRIS1D-17.030-031	TRG		1	11.42	8.76E-02	1.2000E+01	1.0512E+00				
15	FEEBRIS1D-17.033-036	TRG		1	11.74	8.52E-02	1.2000E+01	1.0224E+00				
16	FEEBRIS1D-13.093-094	TRG		1	16.61	6.02E-02	2.0000E+01	1.2040E+00				
17	FEEBRIS1D-13.085-086	TRG		1	15.36	6.51E-02	2.0000E+01	1.3020E+00				
18	FEEBRIS1D-14.082-084	TRG		1	18.08	5.53E-02	2.0000E+01	1.1060E+00				
19	FEEBRIS1D-14.054-056	TRG		1	17.39	5.75E-02	2.0000E+01	1.1500E+00				
20	FEEBRIS1D-09.088-089	TRG		1	11.21	8.92E-02	1.2000E+01	1.0704E+00				

Comments	

Technician: JWolfe Date: 7/6/15

EBERLINE SERVICES

	Internal Work Order	15-06114
	Fraction	**> 03 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.47**	ml	from the original sample and diluted it to	**100**	ml	0.0847
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0847**
Dilution Factor	**11.80637544**

Diluted by: JW Date: 7/6/15

9520

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.47**	ml	from the original sample and diluted it to	**100**	ml	0.0847
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0847**
Dilution Factor	**11.80637544**

Diluted by: JW

Date: 7/6/15

00237

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 05 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**9.27**	ml	from the original sample and diluted it to	**100**	ml	0.0927
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	0.0927
Dilution Factor	10.78748652

Diluted by: JW Date: 7/6/15

082238

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 06 <
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.3**	ml	from the original sample and diluted it to	**100**	ml	0.0530
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.053**
Dilution Factor	**18.86792453**

Diluted by: JW Date: 7/6/15

00239

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 07 <
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.55**	ml	from the original sample and diluted it to	**100**	ml	0.0855
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0855**
Dilution Factor	**11.69590643**

Diluted by: JW Date: 7/6/15

00240

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 08 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.5**	ml	from the original sample and diluted it to	**100**	ml	0.0750
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.075**
Dilution Factor	**13.33333333**

Diluted by: JW Date: 7/6/15

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 09 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.27**	ml	from the original sample and diluted it to	**100**	ml	0.0527
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0527**
Dilution Factor	**18.97533207**

Diluted by: JW Date: 7/6/15

15-06114

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 10 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.25**	ml	from the original sample and diluted it to	**100**	ml	0.0525
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0525**
Dilution Factor	**19.04761905**

Diluted by: JW Date: 7/6/15

00243

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 11 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.27**	ml	from the original sample and diluted it to	**100**	ml	0.0527
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0527**
Dilution Factor	**18.97533207**

Diluted by: JW Date: 7/6/15

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 12 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.4**	ml	from the original sample and diluted it to	**100**	ml	0.0540
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.054**
Dilution Factor	**18.51851852**

Diluted by: JW Date: 7/6/15

51259

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 13 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.17**	ml	from the original sample and diluted it to	**100**	ml	0.0517
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0517**
Dilution Factor	**19.34235977**

Diluted by: JW Date: 7/6/15

94200

EBERLINE SERVICES

	Internal Work Order	15-06114
	Fraction	**> 14 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.76**	ml	from the original sample and diluted it to	**100**	ml	0.0876
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0876**
Dilution Factor	**11.41552511**

Diluted by: JW Date: 7/6/15

41259

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 15 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.52**	ml	from the original sample and diluted it to	**100**	ml	0.0852
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0852**
Dilution Factor	**11.7370892**

Diluted by: JW

Date: 7/6/15

00248

EBERLINE SERVICES

Internal Work Order	15-06114
Fraction	**> 16 <**
Analysis Code	**ThISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Worksheet

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.02**	ml	from the original sample and diluted it to	**100**	ml	0.0602
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0602**
Dilution Factor	**16.61129568**

Diluted by: JW Date: 7/6/15

61769

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 17 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.51**	ml	from the original sample and diluted it to	**100**	ml	0.0651
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0651**
Dilution Factor	**15.3609831**

Diluted by: JW

Date: 7/6/15

00250

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 18 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.53**	ml	from the original sample and diluted it to	**100**	ml	0.0553
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0553**
Dilution Factor	**18.08318264**

Diluted by: JW

Date: 7/6/15

00251

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-06114
Fraction	**> 19 <**
Analysis Code	**ThISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.75**	ml	from the original sample and diluted it to	**100**	ml	0.0575
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0575**
Dilution Factor	**17.39130435**

Diluted by: JW Date: 7/6/15

9525

EBERLINE SERVICES	Internal Work Order	15-06114
	Fraction	> 20 <
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.92**	ml	from the original sample and diluted it to	**100**	ml	0.0892
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0892**
Dilution Factor	**11.21076233**

Diluted by: JW Date: 7/6/15

00253

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation
Log Book

Printed: 7/1/2015 7:40 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06114	7/21/2015	6/30/2015	7/1/2015	7/2/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-09.099-100	14.6600	990.3400	828.9400	975.6800	814.2800	16.54%	83.46%	0.0000	0.0000	
05	FEEBRIS1D-09.078-079	29.1700	1004.4800	638.9900	975.3100	609.8200	37.47%	62.53%	0.0000	0.0000	
06	FEEBRIS1D-01.007-009	14.5600	1034.2600	885.2800	1019.7000	870.7200	14.61%	85.39%	0.0000	0.0000	
07	FEEBRIS1D-01.024-027	29.2800	1309.7200	1145.4400	1280.4400	1116.1600	12.83%	87.17%	0.0000	0.0000	
08	FEEBRIS1D-02.027-030	29.1500	1152.4200	752.3900	1123.2700	723.2400	35.61%	64.39%	0.0000	0.0000	
09	FEEBRIS1D-02.020-023	14.5900	1088.3800	886.5800	1073.7900	871.9900	18.79%	81.21%	0.0000	0.0000	
10	FEEBRIS1D-02.036-037	14.5900	1156.8000	911.6000	1142.2100	897.0100	21.47%	78.53%	0.0000	0.0000	
11	FEEBRIS1D-18.013-014	43.6400	1535.5000	1248.2800	1491.8600	1204.6400	19.25%	80.75%	0.0000	0.0000	
12	FEEBRIS1D-18.038-041	29.2000	1081.7200	614.8200	1052.5200	585.6200	44.36%	55.64%	0.0000	0.0000	
13	FEEBRIS1D-18.044-046	28.9300	1529.9800	1252.6200	1501.0500	1223.6900	18.48%	81.52%	0.0000	0.0000	
14	FEEBRIS1D-17.030-031	28.8500	1325.7200	945.0200	1296.8700	916.1700	29.36%	70.64%	0.0000	0.0000	
15	FEEBRIS1D-17.033-036	28.8600	1329.3400	1008.8000	1300.4800	979.9400	24.65%	75.35%	0.0000	0.0000	
16	FEEBRIS1D-13.093-094	28.8100	1311.9000	1129.2200	1283.0900	1100.4100	14.24%	85.76%	0.0000	0.0000	
17	FEEBRIS1D-13.085-086	28.8900	1816.0000	1573.8600	1787.1100	1544.9700	13.55%	86.45%	0.0000	0.0000	
18	FEEBRIS1D-14.082-084	28.8300	1674.0500	1494.0600	1645.2200	1465.2300	10.94%	89.06%	0.0000	0.0000	
19	FEEBRIS1D-14.054-056	43.4300	1332.9000	860.9000	1289.4700	817.4700	36.60%	63.40%	0.0000	0.0000	
20	FEEBRIS1D-09.088-089	28.7700	1476.6200	1196.4600	1447.8500	1167.6900	19.35%	80.65%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

Technician: Kerry Sels Date: **Analysis: Rough Prep Logbook** **Analysis: ThISO Page No. 9332**

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-06114	grams	7/21/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-09.099-100	97.9500	106.4200		8.4700		
05	FEEBRIS1D-09.078-079	109.6200	118.8900		9.2700		
06	FEEBRIS1D-01.007-009	105.3300	110.6300		5.3000		
07	FEEBRIS1D-01.024-027	107.4700	116.0200		8.5500		
08	FEEBRIS1D-02.027-030	108.2800	115.7800		7.5000		
09	FEEBRIS1D-02.020-023	110.7900	116.0600		5.2700		
10	FEEBRIS1D-02.036-037	111.3500	116.6000		5.2500		
11	FEEBRIS1D-18.013-014	103.5800	108.8500		5.2700		
12	FEEBRIS1D-18.038-041	108.9900	114.3900		5.4000		
13	FEEBRIS1D-18.044-046	104.1300	109.3000		5.1700		
14	FEEBRIS1D-17.030-031	108.3800	117.1400		8.7600		
15	FEEBRIS1D-17.033-036	112.0200	120.5400		8.5200		
16	FEEBRIS1D-13.093-094	111.8700	117.8900		6.0200		
17	FEEBRIS1D-13.085-086	101.9700	108.4800		6.5100		
18	FEEBRIS1D-14.082-084	109.3200	114.8500		5.5300		
19	FEEBRIS1D-14.054-056	110.8000	116.5500		5.7500		
20	FEEBRIS1D-09.088-089	111.2700	120.1900		8.9200		

Comments

Technician: Kenny Sallings Date: 7/21/15

Analysis: ThISO

0255

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_055
Chamber Serial Number: 10006124A
Detector Serial Number: 55
Env. Background: System Bkgd 122525
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 8:57:22 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.470 mL
Effective Efficiency: 0.1589 +/- 0.0106
Counting Efficiency: 0.1564 +/- 0.0028 on 12/13/2014 2:35:48 PM
Chem. Recovery Factor: 1.0159 +/- 0.0704

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 1.038962 +/- 0.096822
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.751	16.49	49.13	0.51	0.00E+000	13.3
TH-228		5.363	340.32	10.64	0.68	0.00E+000	28.2
TH-229	T	4.872	285.15	11.63	0.85	0.00E+000	4.4
TH-230		4.645	381.15	10.05	0.85	0.00E+000	21.7
TH-232		3.957	302.83	11.27	0.17	0.00E+000	7.2

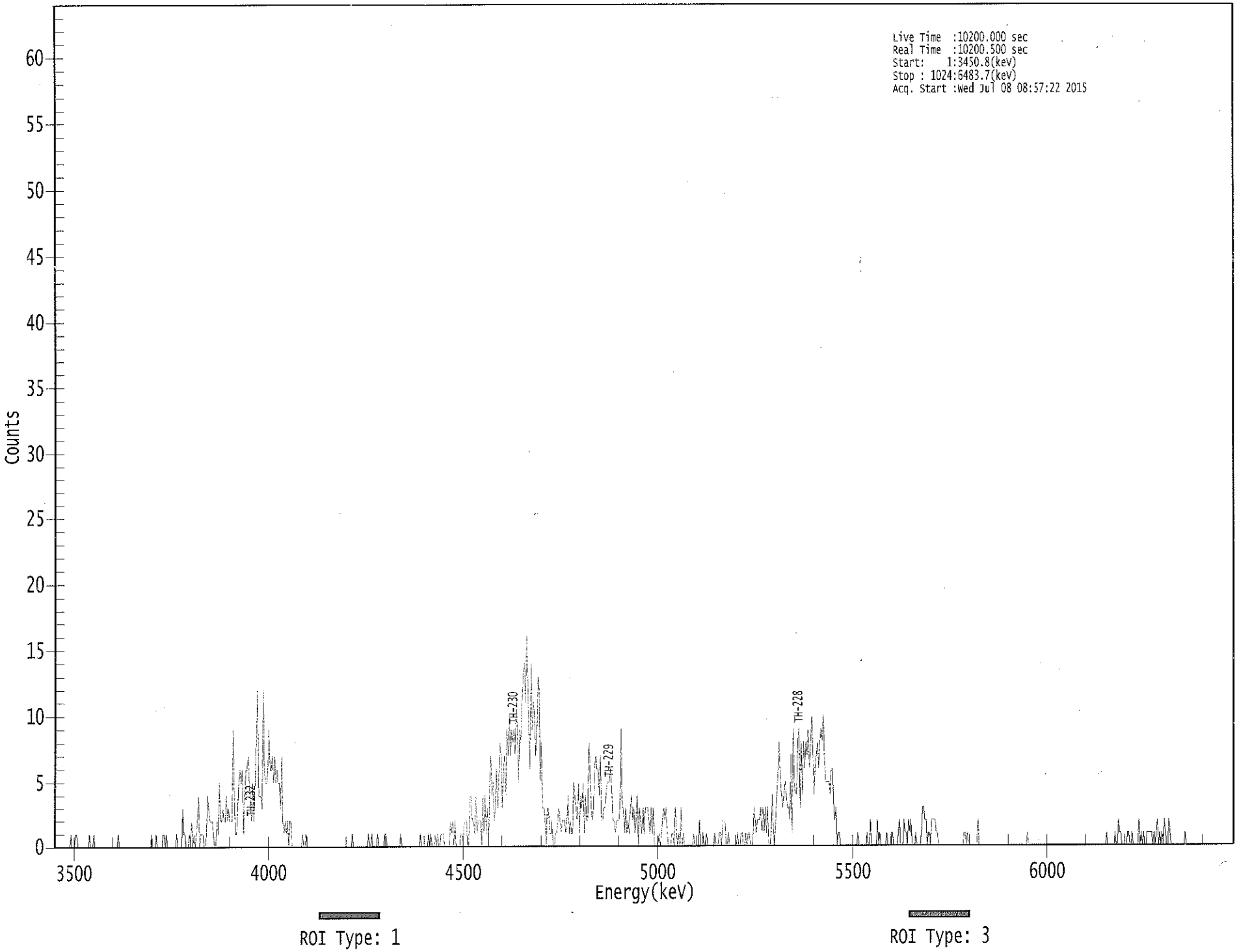
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.950	5850.00*	2.82E-001 +/- 1.43E-001	8.98E-002 +/- 1.18E-002
TH-228	0.993	5400.00*	5.68E+000 +/- 9.59E-001	9.41E-002 +/- 1.23E-002
TH-229	1.000	4872.00*	4.78E+000 +/- 6.27E-001	1.00E-001 +/- 1.32E-002
TH-230	0.996	4672.00*	6.37E+000 +/- 1.05E+000	1.00E-001 +/- 1.31E-002
TH-232	0.992	3997.00*	5.05E+000 +/- 8.73E-001	6.96E-002 +/- 9.13E-003

AG
7/15/10
7/14/15

0000122425.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	1	0
17:	0	0	1	1	0	0	0	0
25:	0	0	0	0	0	0	1	0
33:	0	0	1	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	1
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	1	0	0	0
89:	1	0	0	0	0	0	1	1
97:	0	1	0	0	0	0	0	0
105:	0	0	1	0	0	0	0	3
113:	1	1	0	0	0	1	0	2
121:	0	1	0	1	2	4	0	1
129:	1	1	0	0	1	4	3	2
137:	2	2	1	0	0	2	1	5
145:	2	2	3	2	2	4	2	3
153:	2	2	2	9	4	1	1	3
161:	5	6	5	6	1	4	6	6
169:	7	5	3	2	5	2	5	8
177:	12	4	4	4	3	12	6	5
185:	5	6	9	6	6	7	5	7
193:	5	6	5	5	3	7	2	1
201:	2	1	2	0	2	2	0	0
209:	0	0	0	0	0	0	0	1
217:	0	0	1	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	1	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	1	0	0	1	0	0	0	0
281:	1	0	0	0	0	0	1	1
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	1	0	1	0
329:	0	0	1	0	1	0	0	1
337:	1	1	0	0	0	0	0	2
345:	1	2	0	2	0	0	0	0
353:	1	1	0	2	2	2	0	0
361:	4	4	2	2	1	4	1	2

369:	2	2	0	4	1	4	1	3

Sample Title: 01

Channel								
377:	0	5	7	4	5	2	3	6
385:	3	5	8	7	3	6	7	4
393:	9	7	10	7	9	8	9	7
401:	11	9	5	9	8	11	13	14
409:	11	16	13	9	6	14	9	11
417:	10	7	8	13	12	5	8	3
425:	3	2	0	3	3	1	1	2
433:	0	0	1	1	2	3	2	1
441:	2	2	2	1	2	4	1	2
449:	1	1	5	4	3	2	5	1
457:	4	3	5	1	4	2	2	8
465:	6	3	2	3	6	7	6	6
473:	4	7	2	2	3	3	4	5
481:	5	5	6	4	2	2	1	2
489:	2	2	3	9	3	3	1	3
497:	1	2	1	3	4	2	3	1
505:	2	4	0	3	2	1	3	1
513:	3	3	3	2	1	3	1	3
521:	0	0	0	0	1	0	1	2
529:	3	2	3	1	0	0	0	1
537:	1	0	3	1	0	1	0	3
545:	0	1	0	0	0	0	0	0
553:	0	0	1	0	0	0	0	2
561:	0	0	1	0	0	1	0	0
569:	0	0	0	0	1	0	0	0
577:	1	1	0	2	2	2	0	0
585:	1	0	0	0	0	0	0	0
593:	1	0	0	1	1	0	0	1
601:	0	1	1	0	0	0	3	2
609:	1	2	2	2	3	1	3	1
617:	3	1	3	0	0	1	4	1
625:	0	2	4	6	8	5	4	3
633:	4	5	4	3	3	2	7	1
641:	9	5	4	4	8	9	3	8
649:	4	8	6	8	7	9	6	7
657:	10	8	4	6	7	8	6	8
665:	9	8	10	7	5	5	5	5
673:	4	6	6	3	2	3	0	1
681:	1	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	1	0	0	0	0	0	0	0
705:	1	0	0	2	0	0	0	0
713:	0	2	0	1	0	0	0	0
721:	0	1	0	0	0	1	1	0
729:	0	0	0	1	2	0	0	0
737:	2	1	1	0	2	1	2	0
745:	0	0	1	0	0	0	0	1
753:	3	3	2	2	0	1	1	0
761:	2	2	2	2	1	1	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	1	1	0	1
793:	0	0	0	0	0	0	0	0

801:	2	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	1	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	1	0	0	0	0	0	0	1
921:	0	0	2	1	1	0	0	0
929:	0	0	1	1	0	0	1	0
937:	0	0	0	0	2	0	1	0
945:	1	0	0	1	1	1	1	1
953:	0	1	0	1	2	0	1	0
961:	1	0	2	1	0	0	2	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	1	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/8/15

Apex-Alpha™

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_056
Chamber Serial Number: 10006124B
Detector Serial Number: 56
Env. Background: System Bkgd 122526
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 8:57:24 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.235 mL
Effective Efficiency: 0.1952 +/- 0.0160
Counting Efficiency: 0.1600 +/- 0.0028 on 12/13/2014 2:30:22 PM
Chem. Recovery Factor: 1.2198 +/- 0.1024

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.746	3.13	144.40	1.87	0.00E+000	3.0
TH-228		5.378	-0.89	347.60	2.89	0.00E+000	3.0
TH-229	T	4.886	174.81	14.88	1.19	0.00E+000	4.4
TH-230		4.627	4.13	119.29	1.87	0.00E+000	3.0
TH-232		3.935	3.98	112.01	1.02	0.00E+000	3.0

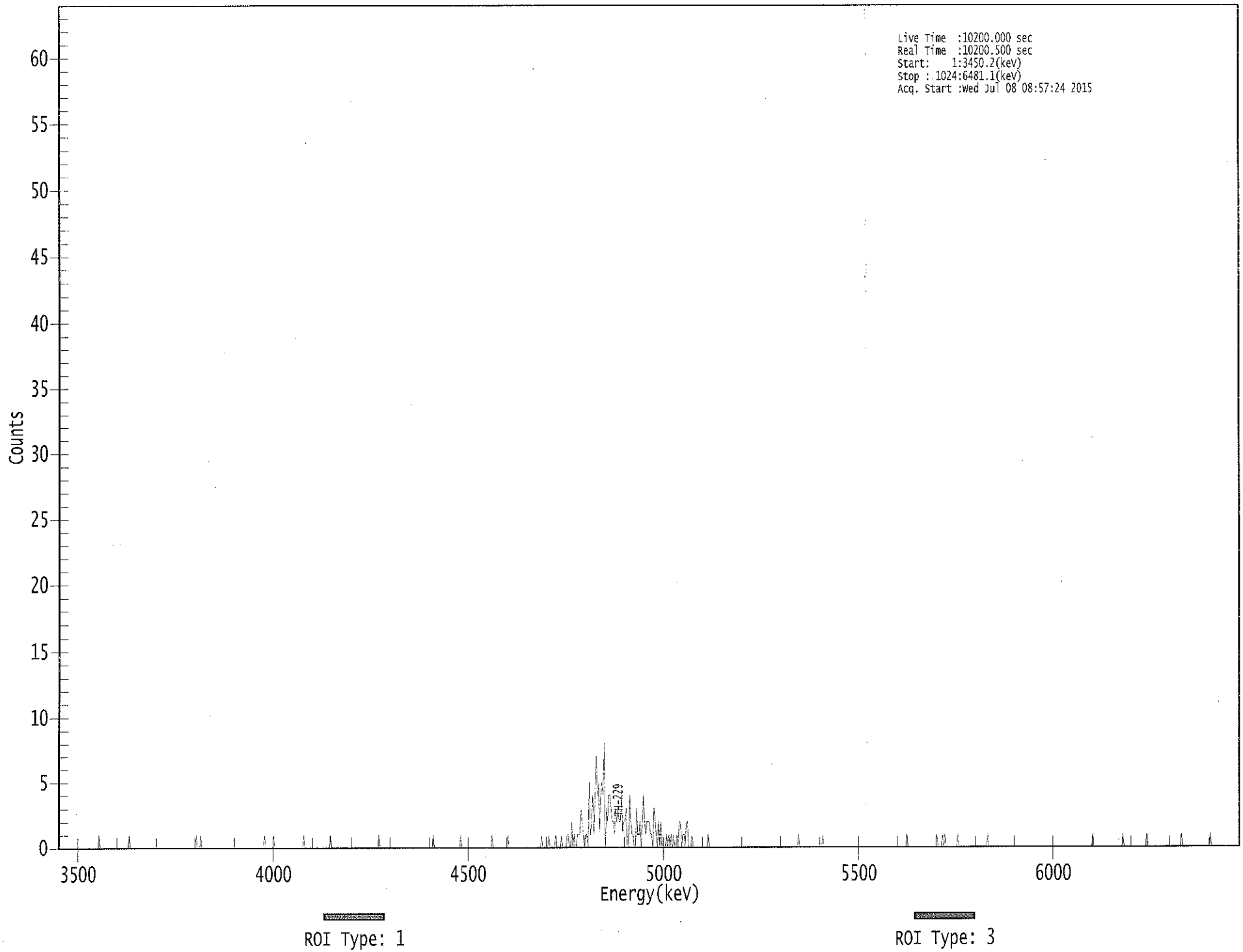
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.945	5850.00*	4.36E-002 +/- 6.33E-002	1.05E-001 +/- 1.69E-002
TH-228	0.997	5400.00*	-1.21E-002 +/- 4.21E-002	1.19E-001 +/- 1.91E-002
TH-229	0.999	4872.00*	2.38E+000 +/- 3.83E-001	8.98E-002 +/- 1.44E-002
TH-230	0.990	4672.00*	5.62E-002 +/- 6.76E-002	1.03E-001 +/- 1.66E-002
TH-232	0.980	3997.00*	5.40E-002 +/- 6.11E-002	8.55E-002 +/- 1.37E-002

AG
7/10/15

0000122420.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	1	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	1	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	1	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	1	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	1	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	1	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	1	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	1	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	1	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	1

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	1	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	1	0	0	0	0	0
425:	1	0	0	0	0	0	1	0
433:	0	0	0	1	0	0	0	0
441:	1	1	0	0	2	0	1	0
449:	0	1	1	1	3	2	1	0
457:	1	1	0	5	1	2	4	1
465:	4	7	4	5	1	4	5	4
473:	8	0	3	2	4	4	3	2
481:	2	1	3	2	3	2	2	4
489:	1	2	2	3	0	0	4	2
497:	1	1	0	0	3	1	1	2
505:	0	2	4	2	1	2	2	2
513:	1	1	0	3	2	1	0	2
521:	0	2	0	0	0	0	1	0
529:	1	0	1	0	1	0	0	1
537:	0	2	2	0	1	1	0	2
545:	2	0	0	0	1	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	1	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	1	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	1	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	1	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	1	0	0	0	0	1	0	1
769:	0	0	0	0	0	0	0	0
777:	0	0	1	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	1	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	1
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	1	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	1	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	1	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	1	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description: FEEBRIS1D-09.099-100-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001225
Batch Identification: 1506114A-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_057
Chamber Serial Number: 01017326A
Detector Serial Number: 57
Env. Background: System Bkgd 122527
Reagent Blank: <not performed>

Sample Size: 1.016E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/17/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 8:57:15 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.1901 +/- 0.0158
Counting Efficiency: 0.1577 +/- 0.0028 on 12/13/2014 2:27:38 PM
Chem. Recovery Factor: 1.2054 +/- 0.1023

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.852	-0.85	246.69	0.85	0.00E+000	0.0
TH-228		5.383	14.66	51.88	0.34	0.00E+000	4.5
TH-229	T	4.887	169.49	15.08	0.51	0.00E+000	15.9
TH-230		4.645	248.00	12.47	0.00	0.00E+000	19.4
TH-232		3.936	14.00	54.22	0.00	0.00E+000	4.5

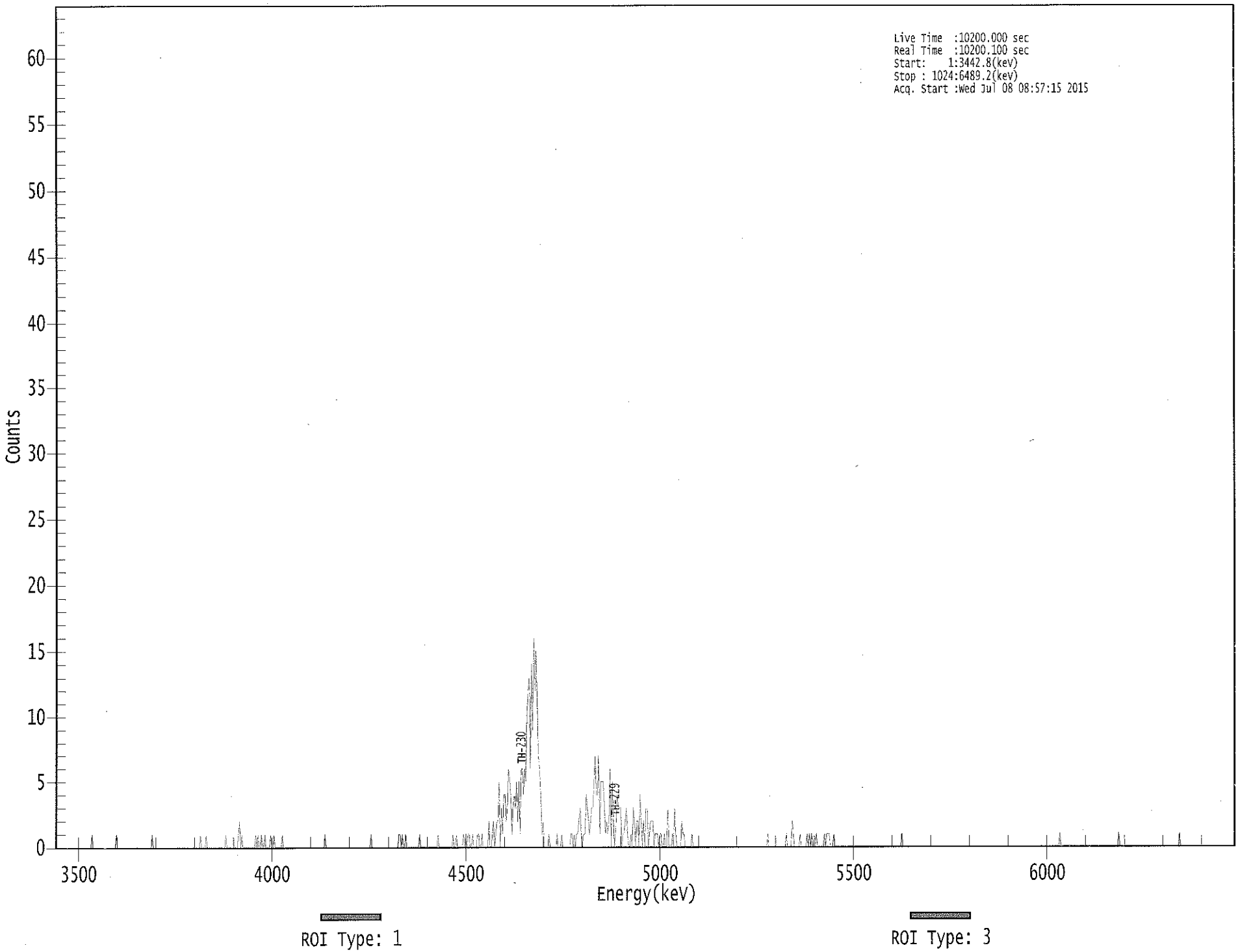
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	-1.20E-002 +/- 2.96E-002	8.44E-002 +/- 1.37E-002
TH-228	0.999	5400.00*	2.05E-001 +/- 1.12E-001	6.70E-002 +/- 1.09E-002
TH-229	0.999	4872.00*	2.34E+000 +/- 3.80E-001	7.23E-002 +/- 1.18E-002
TH-230	0.996	4672.00*	3.41E+000 +/- 6.98E-001	8.24E-002 +/- 1.34E-002
TH-232	0.981	3997.00*	1.92E-001 +/- 1.09E-001	8.22E-002 +/- 1.34E-002

AG
7/10/15

0000122427.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	1
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	1	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	1	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	1	0	0
129:	0	0	1	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	1	0	0	0	0
153:	0	0	0	0	0	0	1	2
161:	0	1	0	0	0	0	0	0
169:	0	0	0	0	0	1	0	1
177:	0	0	1	0	0	1	0	0
185:	0	0	1	0	0	1	0	0
193:	0	0	0	0	1	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	1	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	1	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	1	1	0	1	0	0	1
305:	0	0	0	0	0	0	0	0
313:	0	0	0	1	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	1	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	1	0	0	1	0	0	0	0
353:	0	1	0	1	0	1	1	0
361:	0	1	0	0	0	1	1	0

369:	0	1	0	0	0	0	0	2

Sample Title: 03

Channel								
377:	0	0	1	2	0	1	2	2
385:	5	0	3	1	4	4	2	3
393:	6	5	4	1	3	4	3	5
401:	2	5	1	6	6	4	6	5
409:	10	12	13	6	14	9	16	12
417:	15	11	7	6	4	1	2	0
425:	0	0	0	1	0	0	0	0
433:	0	0	1	0	0	0	1	0
441:	0	0	0	0	0	0	1	1
449:	0	1	0	1	1	2	3	1
457:	0	1	1	4	3	2	1	2
465:	3	3	5	7	4	4	7	1
473:	5	5	5	3	1	2	1	2
481:	6	0	5	1	0	2	4	3
489:	3	3	0	1	1	2	3	1
497:	0	0	1	0	3	2	0	2
505:	2	0	4	2	0	2	0	3
513:	3	0	1	2	2	2	0	1
521:	1	1	0	1	1	0	0	1
529:	0	0	3	0	0	0	1	0
537:	3	1	0	0	0	0	2	1
545:	1	0	0	0	0	0	0	1
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	1	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	1	0	0	0	0	2	1
641:	0	0	0	0	0	1	0	0
649:	0	0	0	1	0	1	0	1
657:	0	0	0	1	0	0	0	0
665:	0	0	1	0	1	1	1	0
673:	0	0	1	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	1	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	1	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	1	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	1	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

7/9/15

Sample Description: FEBBRIS1D-09.099-100
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_058
Chamber Serial Number: 01017326B
Detector Serial Number: 58
Env. Background: System Bkgd 122528
Reagent Blank: <not performed>

Sample Size: 1.016E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/17/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 8:57:17 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1992 +/- 0.0162
Counting Efficiency: 0.1640 +/- 0.0029 on 12/13/2014 2:26:06 PM
Chem. Recovery Factor: 1.2143 +/- 0.1011

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.945	2.83	120.53	0.17	0.00E+000	3.0
TH-228		5.379	4.49	98.45	0.51	0.00E+000	3.0
TH-229	T	4.863	177.49	14.74	0.51	0.00E+000	6.0
TH-230		4.636	216.49	13.34	0.51	0.00E+000	37.1
TH-232		3.964	12.49	56.77	0.51	0.00E+000	3.7

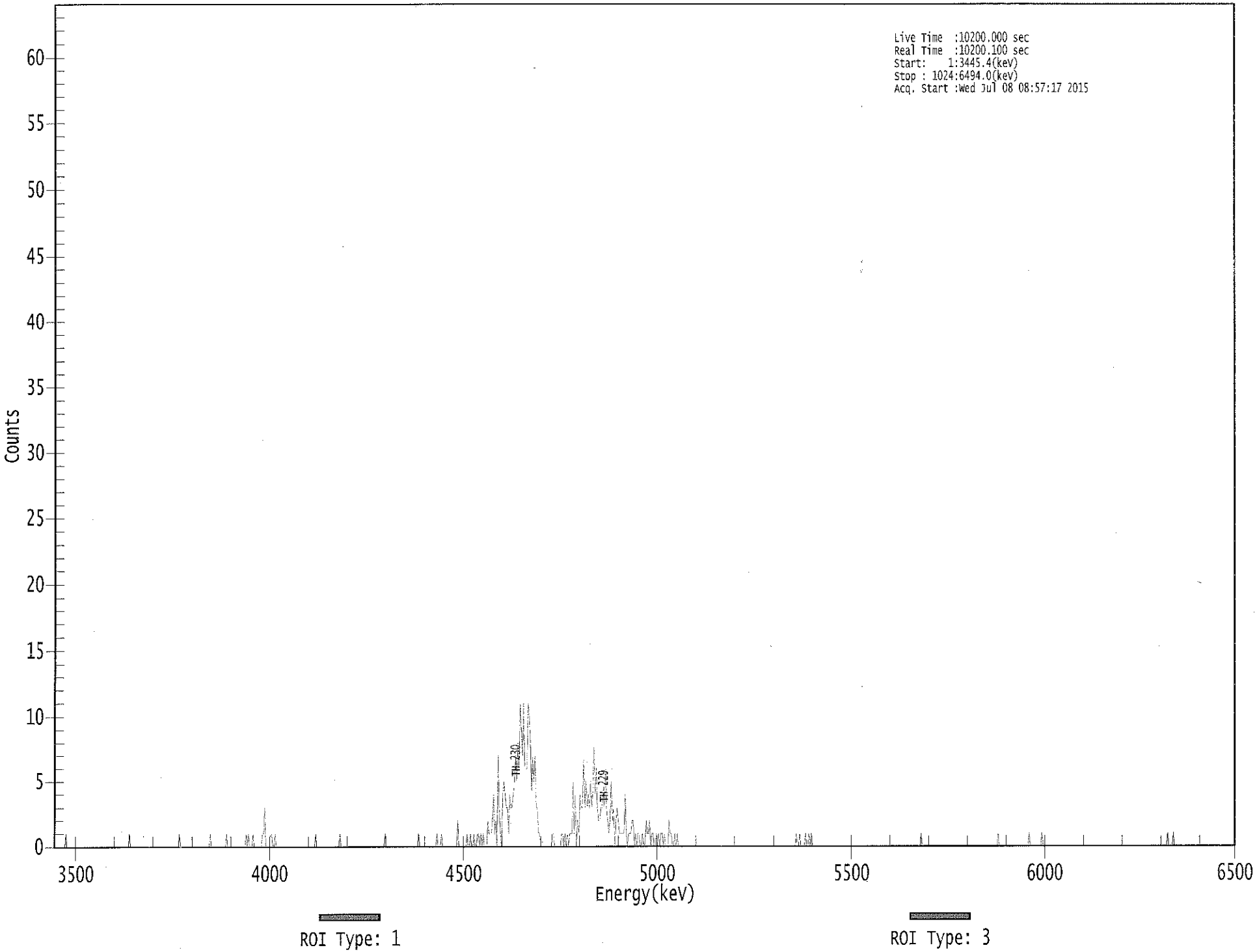
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.954	5850.00*	3.81E-002 +/- 4.63E-002	5.61E-002 +/- 8.95E-003
TH-228	0.998	5400.00*	6.01E-002 +/- 5.99E-002	7.02E-002 +/- 1.12E-002
TH-229	1.000	4872.00*	2.33E+000 +/- 3.72E-001	6.90E-002 +/- 1.10E-002
TH-230	0.993	4672.00*	2.84E+000 +/- 5.90E-001	6.88E-002 +/- 1.10E-002
TH-232	0.994	3997.00*	1.63E-001 +/- 9.64E-002	6.87E-002 +/- 1.09E-002

AG
7/10/15

0000122421.CNF



:00272

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	1	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	1
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	1	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	1	0
169:	1	0	0	0	1	0	0	0
177:	0	0	0	0	1	1	3	0
185:	0	0	0	1	1	0	0	1
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	1	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	1
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	1	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	1	0	0	0	1
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	2	0	0
353:	0	0	0	0	0	1	0	0
361:	1	0	0	1	0	0	1	1

369:	0	1	0	1	0	0	0	2

Sample Title: 04

Channel								
377:	1	1	1	2	4	1	2	0
385:	7	3	1	0	4	5	4	3
393:	3	1	4	3	3	4	5	7
401:	5	8	6	11	9	7	11	6
409:	6	6	11	10	8	4	7	5
417:	7	3	3	1	1	0	0	0
425:	0	0	0	0	0	0	0	1
433:	1	0	0	0	0	0	0	1
441:	1	0	1	0	1	0	1	1
449:	1	5	1	4	0	2	1	4
457:	3	3	7	3	5	3	4	3
465:	5	3	4	8	4	6	3	2
473:	2	3	3	4	3	6	3	2
481:	1	2	5	2	3	0	2	3
489:	2	1	1	1	1	1	4	1
497:	0	1	1	1	2	2	0	1
505:	0	1	1	0	0	1	0	0
513:	2	1	1	2	0	1	1	0
521:	0	1	0	1	0	1	1	0
529:	1	0	0	0	2	1	1	0
537:	0	1	0	1	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	1	0	0	1	0	0
649:	0	0	1	0	0	1	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	1	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	1	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	1	0	0	0
849:	0	0	0	0	0	0	0	1
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	1	0	0	0
969:	0	1	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

VB 7/8/15

Apex-Alpha™

Sample Description: FEEBRIS1D-09.078-079
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_059
Chamber Serial Number: 10006125A
Detector Serial Number: 59
Env. Background: System Bkgd 122529
Reagent Blank: <not performed>

Sample Size: 1.112E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/17/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 8:57:18 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1715 +/- 0.0149
Counting Efficiency: 0.1717 +/- 0.0030 on 12/13/2014 2:24:23 PM
Chem. Recovery Factor: 0.9986 +/- 0.0885

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.756	0.81	359.09	1.19	0.00E+000	3.0
TH-228		5.351	7.79	81.05	2.21	0.00E+000	3.0
TH-229	T	4.854	152.49	15.90	0.51	0.00E+000	8.3
TH-230		4.634	24.66	39.79	0.34	0.00E+000	7.5
TH-232		3.945	13.66	53.80	0.34	0.00E+000	4.5

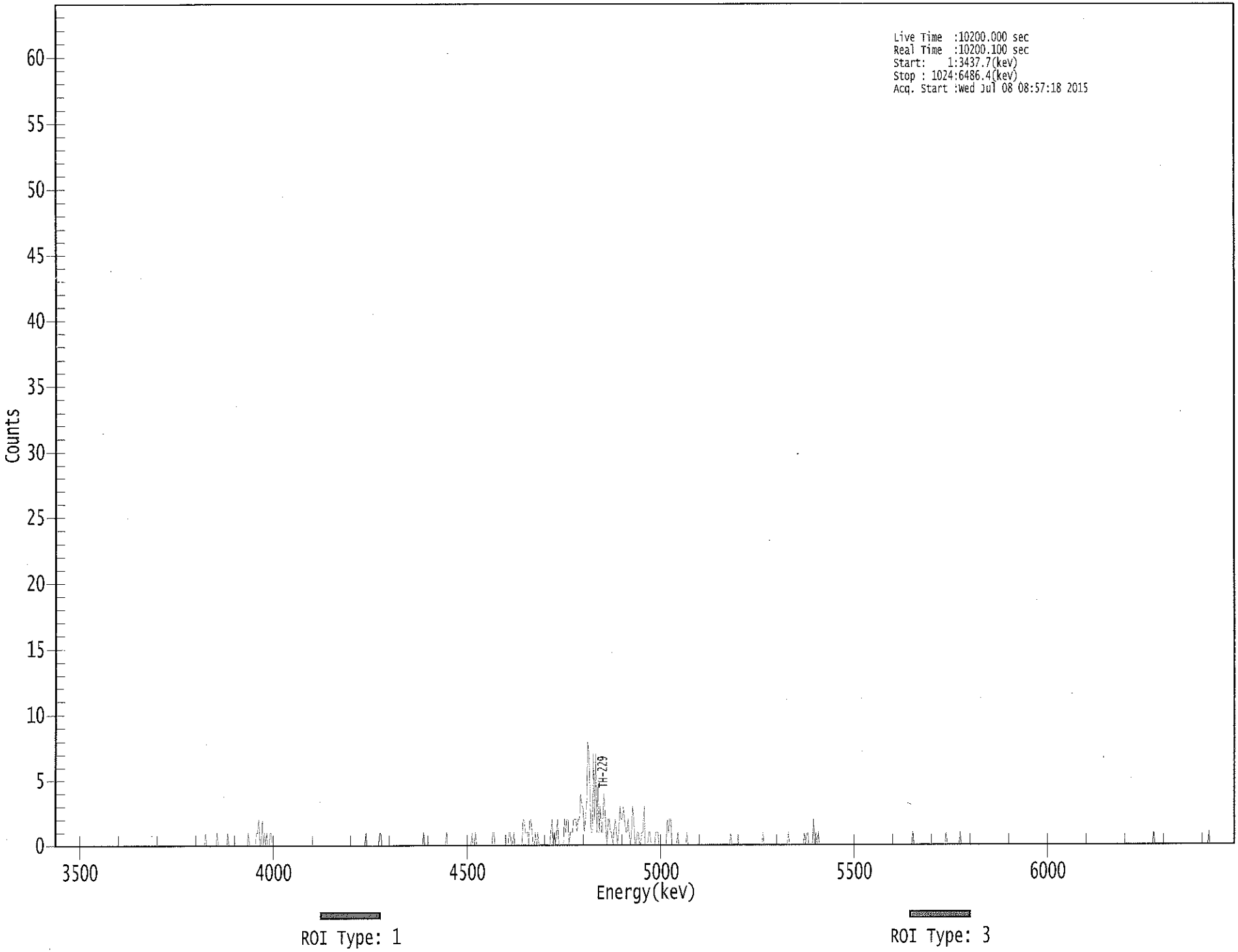
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.955	5850.00*	1.16E-002 +/- 4.16E-002	9.40E-002 +/- 1.60E-002
TH-228	0.987	5400.00*	1.11E-001 +/- 9.16E-002	1.14E-001 +/- 1.93E-002
TH-229	0.998	4872.00*	2.13E+000 +/- 3.62E-001	7.32E-002 +/- 1.25E-002
TH-230	0.992	4672.00*	3.43E-001 +/- 1.49E-001	6.65E-002 +/- 1.13E-002
TH-232	0.986	3997.00*	1.90E-001 +/- 1.07E-001	6.64E-002 +/- 1.13E-002

AG
7/10/15

0000122426.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	1	0	0	0	0	0
137:	0	0	0	0	1	0	0	0
145:	0	0	0	0	0	1	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	1
169:	0	0	0	0	0	0	1	1
177:	2	0	0	2	0	1	0	1
185:	0	0	1	1	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	1	1	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	1
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	1	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	1	0	0	1	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
377:	0	0	0	1	1	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	1	1	0	0	1	0	0
401:	0	0	0	0	0	2	2	1
409:	1	1	0	2	2	1	0	0
417:	1	0	1	0	0	0	0	0
425:	0	0	0	0	0	1	2	0
433:	1	0	1	2	0	0	0	0
441:	0	2	1	2	2	0	1	1
449:	1	2	2	2	1	2	2	4
457:	3	3	1	2	3	8	7	4
465:	1	1	7	2	7	1	5	1
473:	3	1	1	4	3	1	0	2
481:	2	1	1	0	1	2	1	0
489:	1	3	2	2	3	2	1	1
497:	2	1	0	1	3	2	0	0
505:	1	1	0	0	1	1	3	0
513:	0	0	1	1	0	0	0	0
521:	1	1	1	0	0	0	0	0
529:	0	0	2	1	2	2	0	0
537:	0	0	0	1	0	0	0	0
545:	0	0	0	1	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	1	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	1	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	1	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	1	0	1	1	0	0	0
657:	0	2	0	1	0	1	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	1
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	1	0	0	0
777:	0	0	0	0	0	0	0	0
785:	1	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	1	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	1	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KP 7/8/15

Sample Description: FEEBRIS1D-01.007-009
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_060
Chamber Serial Number: 10006125B
Detector Serial Number: 60
Env. Background: System Bkgd 122530
Reagent Blank: <not performed>

Sample Size: 1.060E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 8:57:20 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1805 +/- 0.0153
Counting Efficiency: 0.1543 +/- 0.0028 on 12/13/2014 2:22:05 PM
Chem. Recovery Factor: 1.1700 +/- 0.1015

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.790	5.49	88.08	0.51	0.00E+000	3.0
TH-228		5.396	18.79	48.23	2.21	0.00E+000	4.5
TH-229	T	4.890	160.66	15.48	0.34	0.00E+000	6.4
TH-230		4.648	119.15	18.03	0.85	0.00E+000	18.7
TH-232		3.970	28.49	37.10	0.51	0.00E+000	3.7

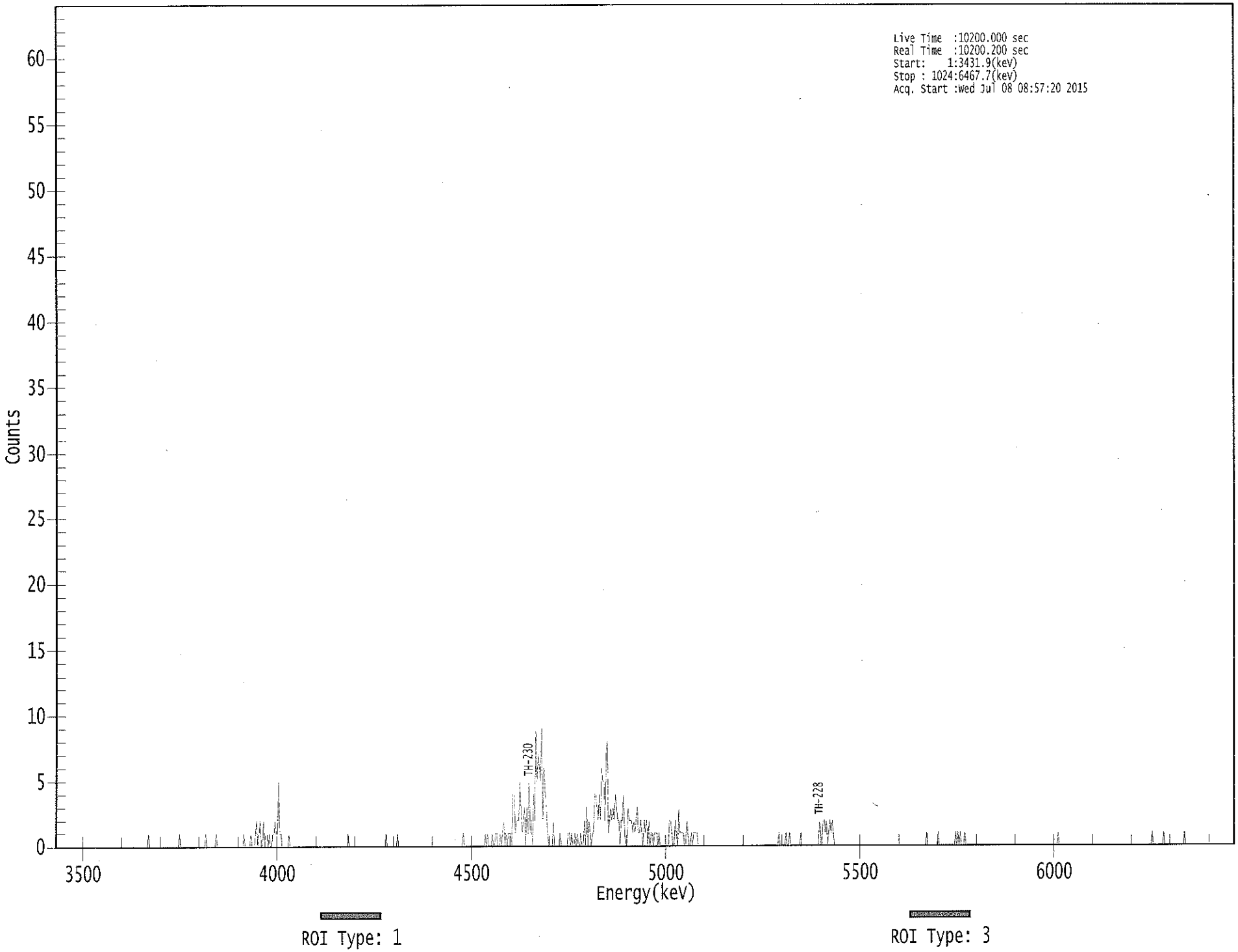
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.981	5850.00*	7.81E-002 +/- 7.00E-002	7.46E-002 +/- 1.24E-002
TH-228	1.000	5400.00*	2.65E-001 +/- 1.35E-001	1.13E-001 +/- 1.87E-002
TH-229	0.998	4872.00*	2.24E+000 +/- 3.72E-001	6.65E-002 +/- 1.11E-002
TH-230	0.997	4672.00*	1.65E+000 +/- 4.05E-001	8.31E-002 +/- 1.38E-002
TH-232	0.996	3997.00*	3.95E-001 +/- 1.60E-001	7.27E-002 +/- 1.21E-002

AG 7/10/15

0000122428.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	1	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	1	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	1	0	0	0	0	0
137:	0	0	0	1	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	1	0	0	0	0
169:	0	1	0	0	0	1	2	0
177:	1	2	0	0	2	0	1	1
185:	0	1	0	0	1	1	2	1
193:	1	5	1	1	0	0	0	0
201:	0	0	1	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	1	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	1	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	1	0	1	0

Sample Title: 06

Channel								
377:	0	0	1	0	0	1	1	0
385:	0	1	0	1	2	0	1	0
393:	1	1	1	0	4	4	1	2
401:	2	2	5	3	1	2	3	0
409:	3	1	5	1	2	0	4	2
417:	9	5	7	6	5	9	2	6
425:	4	3	1	0	0	0	0	2
433:	0	0	0	0	0	1	0	0
441:	0	0	0	0	1	1	0	1
449:	0	0	1	0	1	0	0	1
457:	0	0	2	0	3	0	2	1
465:	0	1	1	4	4	3	2	4
473:	2	6	5	5	2	7	8	1
481:	2	3	2	3	2	4	3	2
489:	2	0	2	2	4	1	0	0
497:	3	2	2	2	1	2	1	2
505:	3	1	1	2	1	0	2	1
513:	2	0	2	0	1	1	0	1
521:	1	1	0	1	0	0	0	0
529:	0	0	0	0	2	2	1	0
537:	0	2	1	0	3	1	1	1
545:	1	0	0	2	1	0	0	1
553:	0	1	1	1	1	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	1	0	0	0	0
633:	0	1	0	0	1	0	0	0
641:	0	0	0	0	0	0	1	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	2	1
665:	0	2	2	1	2	0	1	2
673:	1	2	1	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	1	0	0	0	0
761:	0	0	0	0	0	1	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	1	0	1	0
785:	1	0	0	0	1	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	1	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	1
953:	0	0	0	0	0	0	0	0
961:	0	1	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	1	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

NB 7/8/15

Apex-Alpha™

Sample Description: FEEBRIS1D-01.024-027
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_033
Chamber Serial Number: 04026479A
Detector Serial Number: 91132
Env. Background: System Bkgd 122504
Reagent Blank: <not performed>

Sample Size: 1.026E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 11:59:59 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.2089 +/- 0.0166
Counting Efficiency: 0.1805 +/- 0.0032 on 10/25/2014 2:26:39 PM
Chem. Recovery Factor: 1.1574 +/- 0.0944

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.889	1.32	215.97	0.68	0.00E+000	3.0
TH-228		5.341	4.64	105.44	1.36	0.00E+000	3.0
TH-229	T	4.873	185.83	14.39	0.17	0.00E+000	4.6
TH-230		4.635	97.32	19.95	0.68	0.00E+000	6.1
TH-232		3.949	8.66	68.12	0.34	0.00E+000	4.5

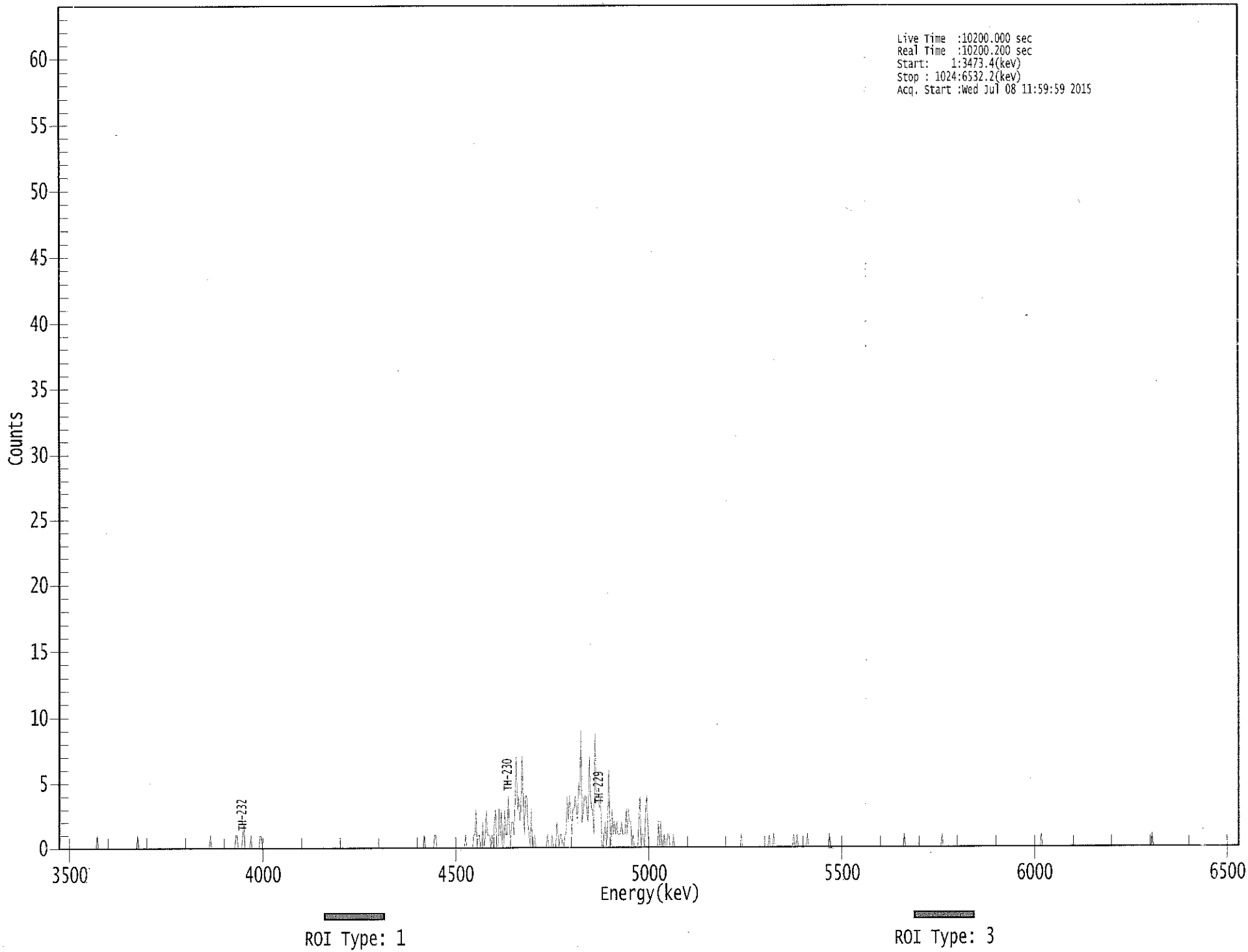
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.992	5850.00*	1.68E-002 +/- 3.63E-002	7.16E-002 +/- 1.12E-002
TH-228	0.982	5400.00*	5.83E-002 +/- 6.22E-002	8.62E-002 +/- 1.35E-002
TH-229	1.000	4872.00*	2.31E+000 +/- 3.61E-001	5.18E-002 +/- 8.10E-003
TH-230	0.993	4672.00*	1.21E+000 +/- 3.05E-001	6.99E-002 +/- 1.09E-002
TH-232	0.988	3997.00*	1.07E-001 +/- 7.48E-002	5.91E-002 +/- 9.23E-003

AG 7/10/15

0000122444.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	1	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	1	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	1	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	1	1	0	0	0	0	1
161:	2	0	0	0	0	0	1	0
169:	0	0	0	0	0	0	1	1
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	1	1	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	1	0	0	0	0	0	0	1
361:	1	3	0	1	1	0	0	2

369:	0	1	3	1	1	1	0	1

Sample Title: 07

Channel								
377:	0	2	3	0	0	3	1	3
385:	0	0	3	1	1	4	2	0
393:	2	2	1	4	7	3	4	2
401:	3	7	4	1	4	4	2	1
409:	0	3	0	0	1	0	0	0
417:	0	0	0	0	0	0	0	1
425:	0	0	0	1	0	0	0	2
433:	1	0	1	1	0	0	1	1
441:	4	2	4	3	1	3	3	4
449:	3	2	5	4	9	2	3	4
457:	4	3	2	7	4	3	3	1
465:	9	4	4	4	3	4	0	0
473:	1	2	0	2	6	2	0	3
481:	1	2	1	2	1	1	1	2
489:	1	1	1	3	1	3	2	2
497:	0	1	0	0	0	0	2	4
505:	0	1	1	0	3	4	1	0
513:	0	0	0	0	0	0	0	2
521:	0	2	0	0	1	0	0	1
529:	1	0	0	0	1	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	1
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	1
617:	0	0	0	1	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	1	0	0	1
641:	0	0	0	0	0	0	0	0
649:	1	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	1	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	1	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	1	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	1	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	1	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-02.027-030
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 122505
Reagent Blank: <not performed>

Sample Size: 9.000E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:01 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.2060 +/- 0.0166
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 1.1517 +/- 0.0948

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.710	0.83	239.53	0.17	0.00E+000	3.0
TH-228		5.375	20.98	43.99	1.02	0.00E+000	4.5
TH-229	T	4.882	182.32	14.55	0.68	0.00E+000	16.1
TH-230		4.647	47.83	28.40	0.17	0.00E+000	4.4
TH-232		3.962	12.66	55.94	0.34	0.00E+000	3.0

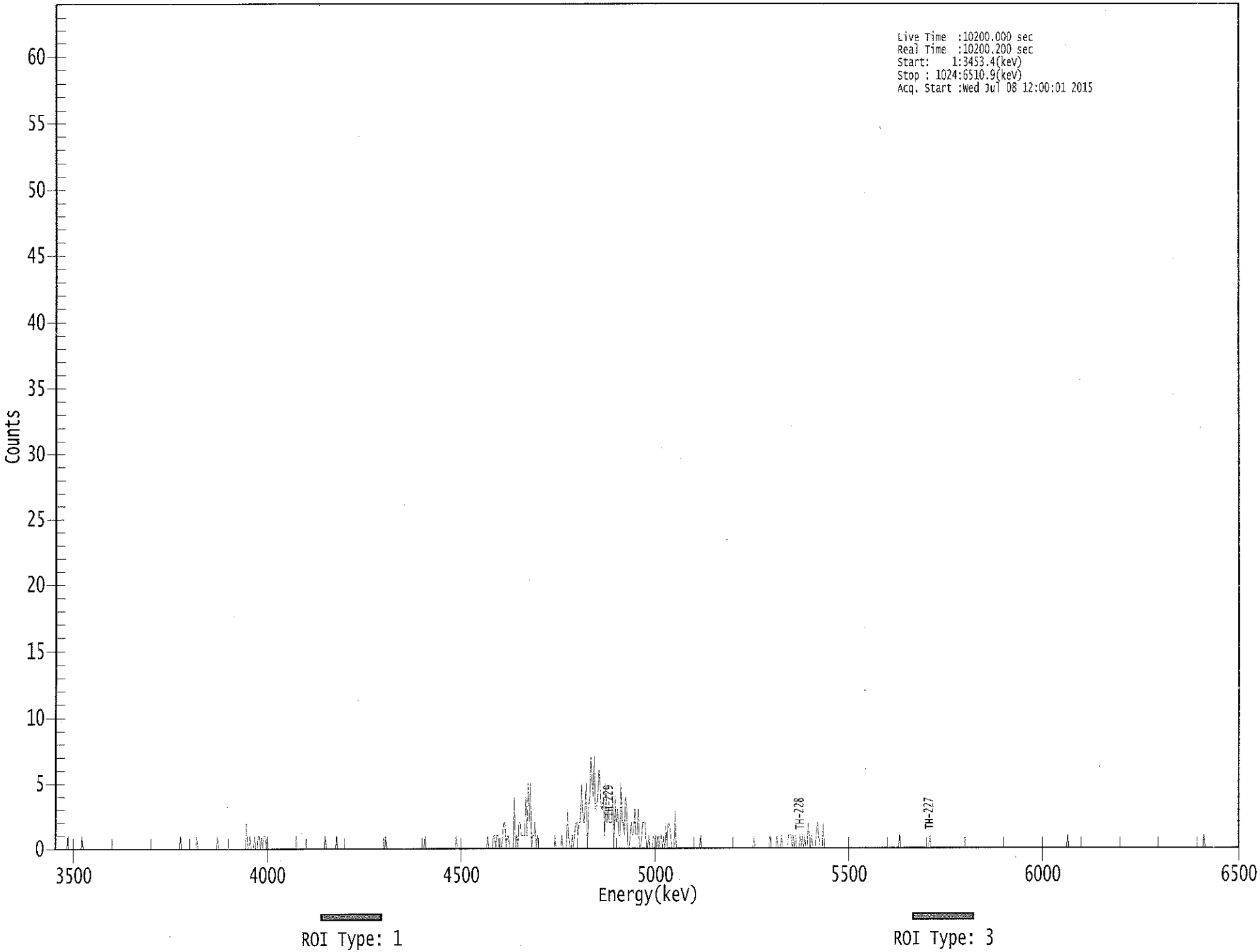
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.903	5850.00*	1.22E-002 +/- 2.92E-002	6.13E-002 +/- 9.66E-003
TH-228	0.997	5400.00*	3.05E-001 +/- 1.42E-001	9.16E-002 +/- 1.44E-002
TH-229	1.000	4872.00*	2.62E+000 +/- 4.13E-001	8.10E-002 +/- 1.28E-002
TH-230	0.997	4672.00*	6.85E-001 +/- 2.22E-001	5.98E-002 +/- 9.42E-003
TH-232	0.994	3997.00*	1.81E-001 +/- 1.05E-001	6.83E-002 +/- 1.08E-002

AG 7/10/15

0000122445.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	1	0	0	0	0
17:	0	0	0	0	0	0	0	1
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	1	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	1	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	2	0	0
169:	1	0	0	0	1	0	0	1
177:	1	0	1	0	1	1	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	1	0	0	0	0	0	0
241:	0	0	0	1	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	1	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	1
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	1	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	1	0	0

Sample Title: 08

Channel								
377:	0	0	1	1	0	1	1	0
385:	0	0	1	2	2	0	1	1
393:	0	0	0	0	4	0	1	0
401:	2	2	1	1	1	1	4	1
409:	5	2	5	0	1	1	2	0
417:	1	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	1
433:	0	0	0	0	0	1	0	0
441:	0	0	3	1	0	0	1	0
449:	1	2	2	1	2	2	5	3
457:	2	3	5	0	3	4	7	5
465:	4	7	3	3	4	6	5	3
473:	3	4	1	5	2	3	2	2
481:	2	4	0	4	2	3	1	1
489:	5	2	2	1	4	3	0	0
497:	1	2	1	1	3	1	1	3
505:	0	0	1	2	2	2	0	0
513:	1	0	0	0	1	1	1	0
521:	1	0	1	1	0	1	0	2
529:	0	2	2	1	0	0	0	3
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	1	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	1	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	1	0	0	0	0	0	1
625:	0	0	0	1	0	0	0	0
633:	0	1	1	1	0	1	0	1
641:	0	0	0	1	0	1	0	1
649:	0	0	2	1	0	1	0	0
657:	0	1	2	1	0	0	0	2
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	1	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	1	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	1	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	1	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/8/15

Apex-Alpha™

Sample Description: FEEBRIS1D-02.020-023
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_035
Chamber Serial Number: 04026477A
Detector Serial Number: 58771
Env. Background: System Bkgd 122506
Reagent Blank: <not performed>

Sample Size: 1.054E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:02 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.2271 +/- 0.0175
Counting Efficiency: 0.1647 +/- 0.0029 on 10/25/2014 2:34:10 PM
Chem. Recovery Factor: 1.3784 +/- 0.1091

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.872	-0.68	304.44	0.68	0.00E+000	0.0
TH-228		5.379	27.15	38.30	0.85	0.00E+000	7.5
TH-229	T	4.887	200.66	13.85	0.34	0.00E+000	6.5
TH-230		4.640	75.83	22.54	0.17	0.00E+000	4.4
TH-232		3.966	40.83	30.75	0.17	0.00E+000	5.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.997	5850.00*	-7.73E-003 +/- 2.36E-002	6.41E-002 +/- 9.70E-003
TH-228	0.998	5400.00*	3.06E-001 +/- 1.26E-001	6.74E-002 +/- 1.02E-002
TH-229	0.999	4872.00*	2.23E+000 +/- 3.38E-001	5.32E-002 +/- 8.04E-003
TH-230	0.995	4672.00*	8.41E-001 +/- 2.28E-001	4.63E-002 +/- 7.00E-003
TH-232	0.995	3997.00*	4.52E-001 +/- 1.55E-001	4.62E-002 +/- 6.99E-003

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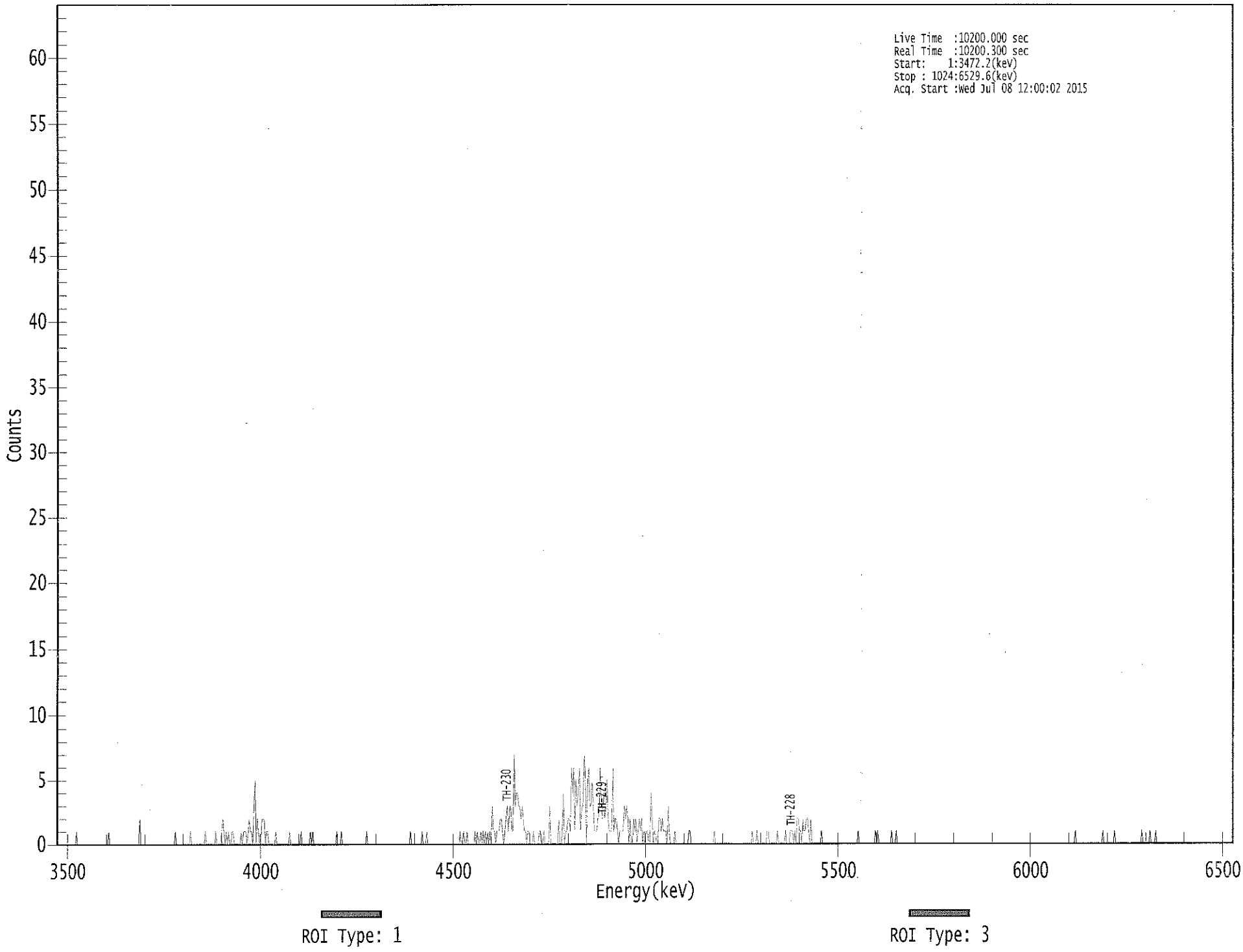
0000122437.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	1	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	2	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	1
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	1	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	1	0	0	0	0	0	0
137:	0	0	1	0	0	0	0	1
145:	2	1	0	1	0	1	0	0
153:	1	1	0	0	0	0	0	0
161:	1	0	1	1	1	0	1	2
169:	1	1	0	3	5	0	2	1
177:	0	0	2	2	2	0	1	1
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	1	0	0	0	0	0
209:	0	0	0	0	1	0	0	0
217:	0	0	0	0	1	0	1	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	1	0	0	0	1
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	1	0	0	0	0
313:	0	0	0	0	0	1	0	0
321:	0	1	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	0	1	0	0	1	0	0	0
361:	0	0	0	1	0	1	0	0

369:	1	0	1	0	1	0	1	0

Sample Title: 09

Channel								
377:	1	0	3	1	1	0	1	1
385:	1	2	2	1	0	1	2	3
393:	1	3	3	1	1	7	3	4
401:	4	3	3	2	3	2	1	1
409:	0	1	1	0	0	0	1	0
417:	0	0	0	1	1	0	0	1
425:	0	0	0	0	3	0	0	0
433:	0	0	0	0	2	0	0	1
441:	4	0	1	1	2	2	1	6
449:	4	6	1	5	3	4	6	1
457:	3	3	7	5	0	5	6	3
465:	3	5	3	1	1	1	2	2
473:	6	3	2	4	2	3	5	2
481:	1	1	1	6	1	2	2	1
489:	0	1	1	1	1	3	2	3
497:	2	0	2	0	0	2	1	2
505:	0	1	2	1	2	0	1	0
513:	1	1	0	0	4	2	0	1
521:	1	0	0	2	2	1	2	1
529:	1	1	0	3	1	0	0	0
537:	0	1	0	0	0	0	0	0
545:	0	0	0	0	0	1	1	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	1	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	1	0	0	0
609:	1	0	0	0	0	0	0	0
617:	0	1	1	0	0	0	0	0
625:	0	0	1	0	0	0	0	0
633:	0	1	0	0	0	1	1	1
641:	0	1	0	2	2	1	1	0
649:	2	1	1	2	2	1	0	2
657:	0	0	0	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	1	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	1
713:	0	1	0	0	0	0	0	0
721:	0	0	0	0	0	1	0	0
729:	0	1	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	1	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	1	0	0
913:	0	0	0	0	0	0	0	1
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	1
945:	0	0	0	0	0	0	1	0
953:	0	0	0	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KP 7/8/15

Sample Description: FEEBRIS1D-02.036-037
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 122507
Reagent Blank: <not performed>

Sample Size: 1.050E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:04 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1609 +/- 0.0144
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 0.8909 +/- 0.0813

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.819	4.64	105.44	1.36	0.00E+000	3.0
TH-228		5.370	37.81	32.46	1.19	0.00E+000	5.0
TH-229	T	4.876	142.32	16.48	0.68	0.00E+000	6.6
TH-230		4.629	45.66	29.13	0.34	0.00E+000	6.0
TH-232		3.964	44.66	29.46	0.34	0.00E+000	9.7

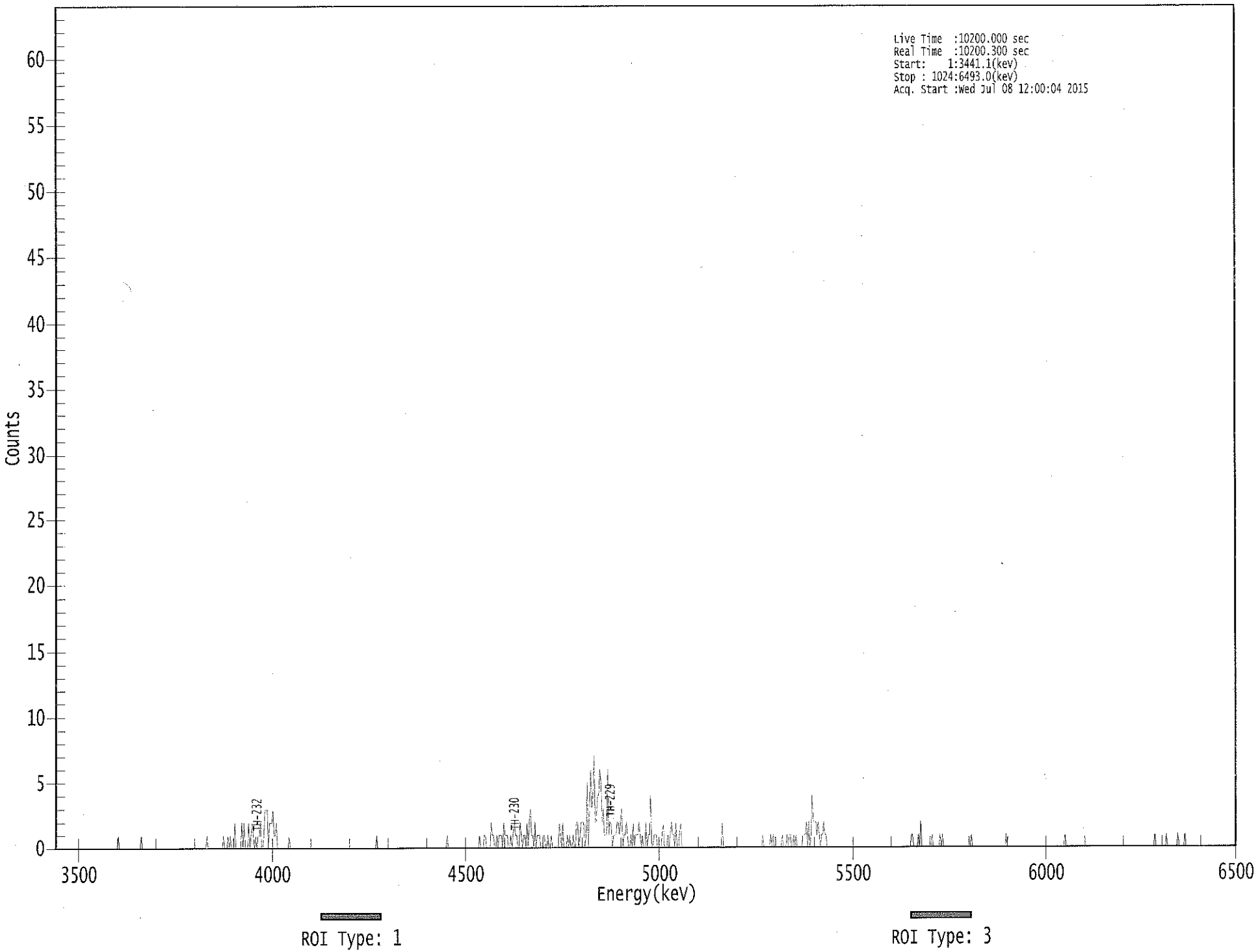
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.995	5850.00*	7.48E-002 +/- 7.99E-002	1.10E-001 +/- 1.94E-002
TH-228	0.995	5400.00*	6.03E-001 +/- 2.23E-001	1.05E-001 +/- 1.85E-002
TH-229	1.000	4872.00*	2.24E+000 +/- 3.94E-001	8.89E-002 +/- 1.56E-002
TH-230	0.990	4672.00*	7.18E-001 +/- 2.44E-001	7.51E-002 +/- 1.32E-002
TH-232	0.994	3997.00*	7.01E-001 +/- 2.40E-001	7.50E-002 +/- 1.32E-002

AG 7/10/15

0000122438.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	1	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	1	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	1	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	1	0	0	0	1	0	1
153:	0	0	0	2	0	0	0	0
161:	0	2	0	2	0	0	0	2
169:	0	1	2	1	0	1	0	1
177:	1	2	0	0	1	3	3	3
185:	0	2	2	2	3	1	1	2
193:	0	0	0	0	0	0	0	0
201:	0	0	1	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	1	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	1	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	1

369:	0	0	0	1	1	0	0	0

Sample Title: 10

Channel								
377:	0	2	1	1	0	0	1	0
385:	1	1	1	0	2	1	1	1
393:	0	0	1	0	1	2	1	1
401:	0	0	2	1	0	1	1	0
409:	2	0	2	3	1	1	0	2
417:	0	1	1	1	0	0	1	1
425:	0	0	1	0	0	1	0	0
433:	0	0	0	0	2	1	0	2
441:	0	0	0	1	0	1	0	0
449:	1	0	0	2	2	0	1	2
457:	2	2	0	1	5	0	3	6
465:	3	4	7	2	2	4	4	6
473:	5	2	3	1	1	1	6	1
481:	2	2	0	1	1	1	2	2
489:	1	2	3	0	1	1	2	1
497:	0	0	1	0	2	0	1	1
505:	1	2	1	0	1	0	0	2
513:	0	1	1	4	0	0	1	1
521:	1	0	0	0	0	1	2	0
529:	0	0	1	0	1	2	1	1
537:	0	2	0	0	1	2	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	2	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	1	0	0	0
617:	0	0	0	1	0	1	0	0
625:	0	0	0	0	0	1	0	0
633:	0	1	0	1	1	0	0	1
641:	0	1	0	0	0	0	0	1
649:	1	1	2	0	2	0	1	4
657:	2	2	2	1	2	1	0	1
665:	1	2	1	1	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	1	1	0
745:	0	0	0	1	0	2	0	0
753:	0	0	0	0	0	0	0	1
761:	0	0	0	0	0	0	1	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	1	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	1
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	1	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	1	0	0	0	0	0	0	0
961:	0	0	1	0	0	0	0	0
969:	0	0	0	0	1	0	0	0
977:	0	0	1	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	FEEBRIS1D-18.013-014
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification:	1506114A-TH
Sample Identification:	11
Sample Geometry:	Shelf 2
Procedure Description:	Th iso
Detector Name:	Alpha_037
Chamber Serial Number:	04026478A
Detector Serial Number:	91133
Env. Background:	System Bkgd 122508
Reagent Blank:	<not performed>
Sample Size:	1.054E+000 +/- 0.000E+000 gram
Sample Date/Time:	6/22/2015 6:33:14 AM
Acquisition Date/Time:	7/8/2015 12:00:06 PM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	Th229_S_TH-18A
Tracer Quantity:	0.231 mL
Effective Efficiency:	0.2025 +/- 0.0165
Counting Efficiency:	0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor:	1.1852 +/- 0.0986
Peak Match Tolerance:	0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.872	8.83	66.70	0.17	0.00E+000	3.0
TH-228		5.365	21.66	42.50	0.34	0.00E+000	4.5
TH-229	T	4.871	178.64	14.73	1.36	0.00E+000	3.5
TH-230		4.613	44.83	29.34	0.17	0.00E+000	8.3
TH-232		3.940	12.66	55.94	0.34	0.00E+000	3.0

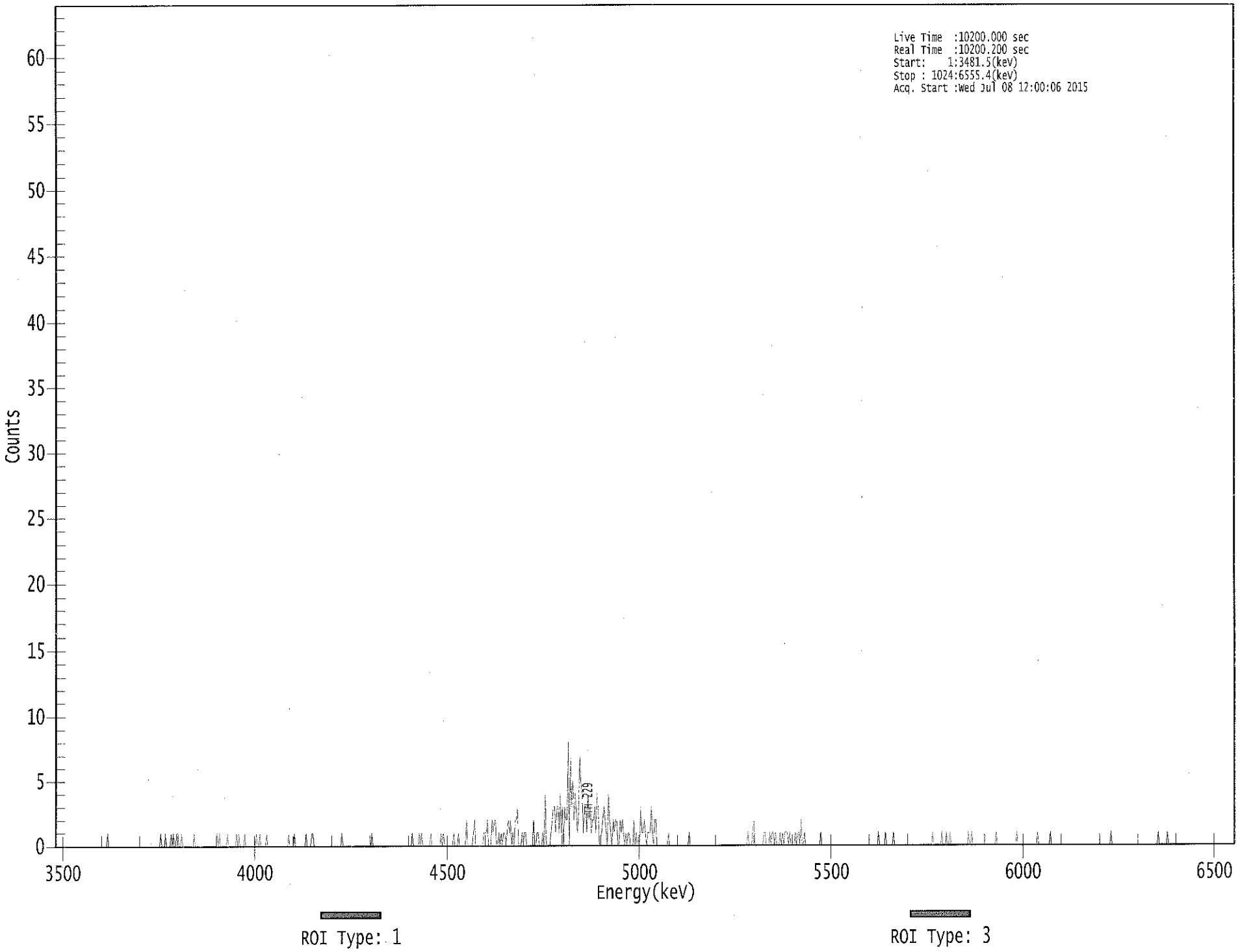
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.998	5850.00*	1.13E-001 +/- 7.72E-002	5.32E-002 +/- 8.48E-003
TH-228	0.994	5400.00*	2.73E-001 +/- 1.24E-001	6.03E-002 +/- 9.62E-003
TH-229	1.000	4872.00*	2.23E+000 +/- 3.55E-001	8.55E-002 +/- 1.36E-002
TH-230	0.982	4672.00*	5.57E-001 +/- 1.86E-001	5.19E-002 +/- 8.27E-003
TH-232	0.983	3997.00*	1.57E-001 +/- 9.14E-002	5.93E-002 +/- 9.46E-003

AG
7/10/15

0000122434.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	1	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	1	0	0	0	1
97:	0	0	0	0	1	0	1	0
105:	0	1	1	0	0	1	0	0
113:	0	0	0	0	0	0	0	0
121:	1	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	1	0	1	0
145:	0	0	0	0	0	1	0	0
153:	0	0	0	0	0	1	0	1
161:	0	0	0	0	1	0	0	0
169:	0	0	0	0	0	0	1	0
177:	0	1	0	0	0	0	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	1	0	0	0	0	1
209:	0	0	0	0	0	0	0	0
217:	0	1	0	0	0	0	1	1
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	1	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	1	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	1	0	1	0	0
321:	0	0	0	0	0	1	0	0
329:	0	0	0	0	0	0	1	0
337:	1	0	0	0	0	0	0	0
345:	0	1	0	0	0	1	0	0
353:	0	0	0	0	2	0	0	0
361:	0	0	1	2	0	0	0	0

369:	0	0	0	1	1	1	2	0

Sample Title: 11

Channel								
377:	0	0	2	1	2	2	0	0
385:	1	0	1	0	1	1	0	1
393:	2	1	2	0	1	0	2	2
401:	3	0	0	0	1	0	1	1
409:	0	0	0	0	0	0	2	0
417:	0	1	1	0	0	0	1	0
425:	4	0	0	0	0	1	2	3
433:	3	1	3	3	1	4	1	3
441:	0	3	2	2	8	0	7	3
449:	5	2	4	3	1	2	7	5
457:	4	1	3	3	1	4	2	3
465:	1	2	2	3	1	4	3	0
473:	0	1	2	3	2	1	0	4
481:	2	1	0	2	1	2	2	0
489:	0	2	1	2	1	0	1	0
497:	1	1	0	0	0	2	0	1
505:	0	0	0	3	1	1	2	1
513:	0	1	1	1	3	1	0	2
521:	2	0	0	0	0	0	0	0
529:	0	0	0	1	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	1	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	1	0	0	0	1	2	0	0
609:	0	0	0	0	0	0	1	1
617:	0	0	0	1	0	1	1	0
625:	1	0	0	0	1	0	1	0
633:	1	1	1	0	1	0	0	0
641:	0	1	0	1	1	0	2	0
649:	0	1	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	1
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	1	0	0	0	0	0	1
721:	0	0	0	0	0	0	1	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	1	0	0	0	0	0	0	0
769:	1	0	0	0	1	0	0	1
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	1
793:	0	0	1	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	1
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	1	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	1	0	0	0	0
857:	0	0	0	0	0	0	1	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	1	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	1	0	0	0
961:	0	0	0	0	1	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

NB 7/8/15

Sample Description: FEEBRIS1D-18.038-041
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 12
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 122509
Reagent Blank: <not performed>

Sample Size: 1.080E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:09 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.1722 +/- 0.0150
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.0660 +/- 0.0947

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.858	6.66	78.18	0.34	0.00E+000	3.0
TH-228		5.290	3.98	112.01	1.02	0.00E+000	3.0
TH-229	T	4.892	152.15	15.94	0.85	0.00E+000	4.8
TH-230		4.645	418.49	9.59	0.51	0.00E+000	17.2
TH-232		3.939	3.83	102.72	0.17	0.00E+000	3.0

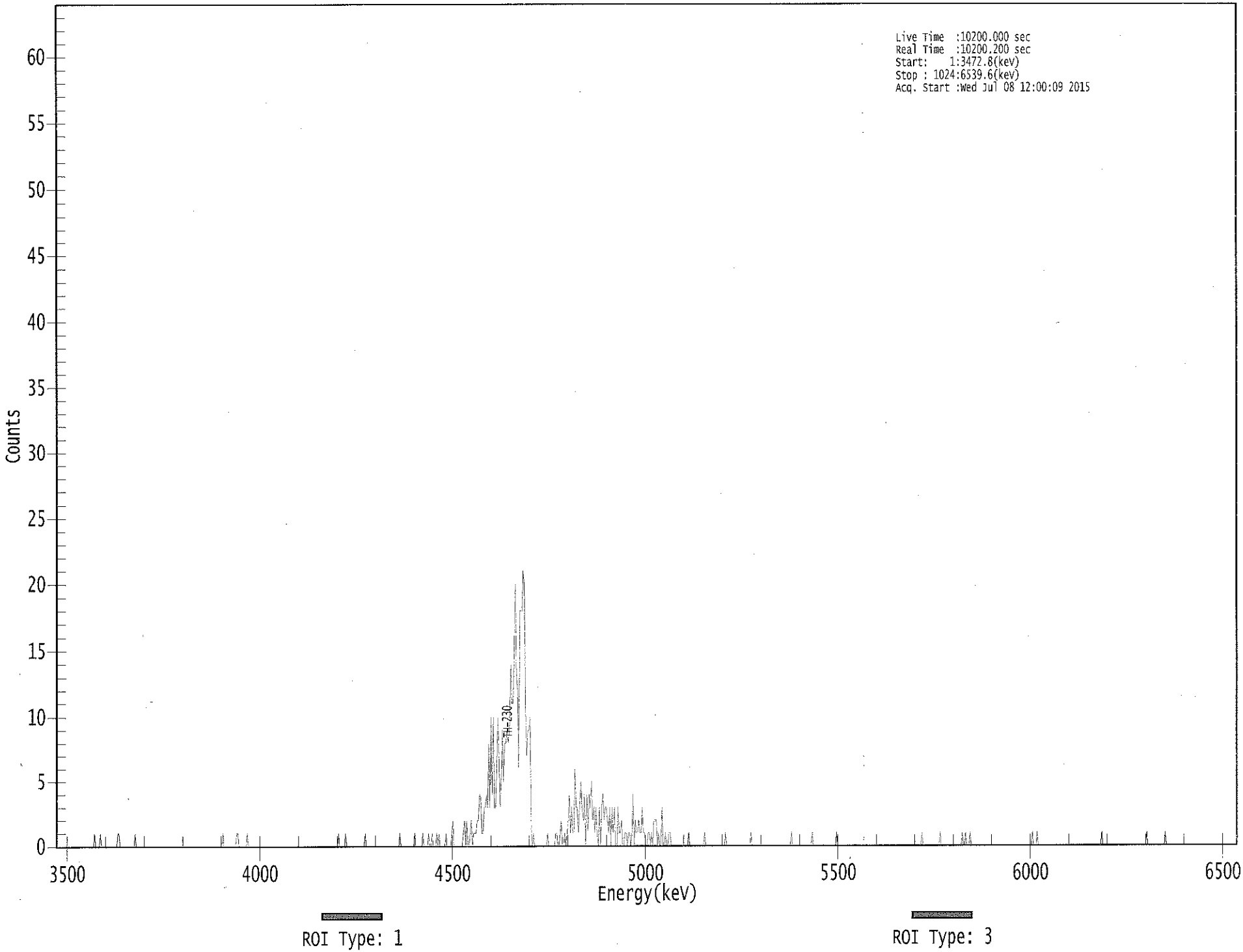
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	9.75E-002 +/- 7.80E-002	7.00E-002 +/- 1.19E-002
TH-228	0.939	5400.00*	5.77E-002 +/- 6.53E-002	9.13E-002 +/- 1.56E-002
TH-229	0.998	4872.00*	2.18E+000 +/- 3.72E-001	8.57E-002 +/- 1.46E-002
TH-230	0.996	4672.00*	5.97E+000 +/- 1.17E+000	7.49E-002 +/- 1.28E-002
TH-232	0.983	3997.00*	5.46E-002 +/- 5.68E-002	5.95E-002 +/- 1.01E-002

AG
7/10/15

0000122435.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 12

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	1	0	0	0	0	1	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	1	1	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	1	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	1	0	0	0	0	0	0	0
153:	0	0	0	0	1	1	0	0
161:	0	0	0	0	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	1	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	1	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	1	0	0	0	0	0	0
305:	0	0	0	0	0	0	1	0
313:	0	0	0	0	0	1	0	0
321:	0	0	1	0	0	1	0	0
329:	0	1	0	1	0	0	0	0
337:	0	1	0	0	0	0	1	2
345:	0	0	0	0	0	0	0	0
353:	1	2	0	2	0	0	1	2
361:	0	1	1	1	2	2	4	4

369:	1	1	3	3	4	3	8	3

Sample Title: 12

Channel								
377:	10	4	10	3	3	6	10	7
385:	3	5	9	5	8	8	9	8
393:	9	14	11	11	14	20	13	12
401:	6	18	18	18	21	20	11	7
409:	9	9	10	1	0	1	0	0
417:	0	0	0	0	0	0	0	0
425:	0	1	0	0	0	0	0	0
433:	1	1	0	0	1	2	0	0
441:	1	0	1	2	4	1	3	1
449:	1	6	3	3	1	3	5	3
457:	2	4	0	4	1	4	3	5
465:	2	3	1	3	1	0	3	0
473:	3	4	2	3	3	2	1	3
481:	0	3	1	3	0	0	3	1
489:	1	2	0	0	1	1	0	1
497:	1	0	1	4	0	2	1	1
505:	2	1	1	3	1	1	0	0
513:	1	1	0	1	0	2	2	2
521:	0	1	0	0	3	0	0	1
529:	0	0	1	1	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	1	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	1	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	1	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	1	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	1	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	1	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	1	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	1	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	1	0	0	1	0	0	0	1
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 12

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	1	0	0
849:	0	1	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	1	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	1	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	1	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

XP 7/8/15

Apex-Alpha™

Sample Description: FEEBRIS1D-18.044-046
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 13
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 122510
Reagent Blank: <not performed>

Sample Size: 1.034E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:11 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.1742 +/- 0.0151
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 0.9008 +/- 0.0794

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.873	0.83	239.53	0.17	0.00E+000	3.0
TH-228		5.303	38.83	31.53	0.17	0.00E+000	3.0
TH-229	T	4.822	153.83	15.81	0.17	0.00E+000	17.0
TH-230		4.611	87.83	20.94	0.17	0.00E+000	4.0
TH-232		3.915	53.00	27.18	0.00	0.00E+000	6.0

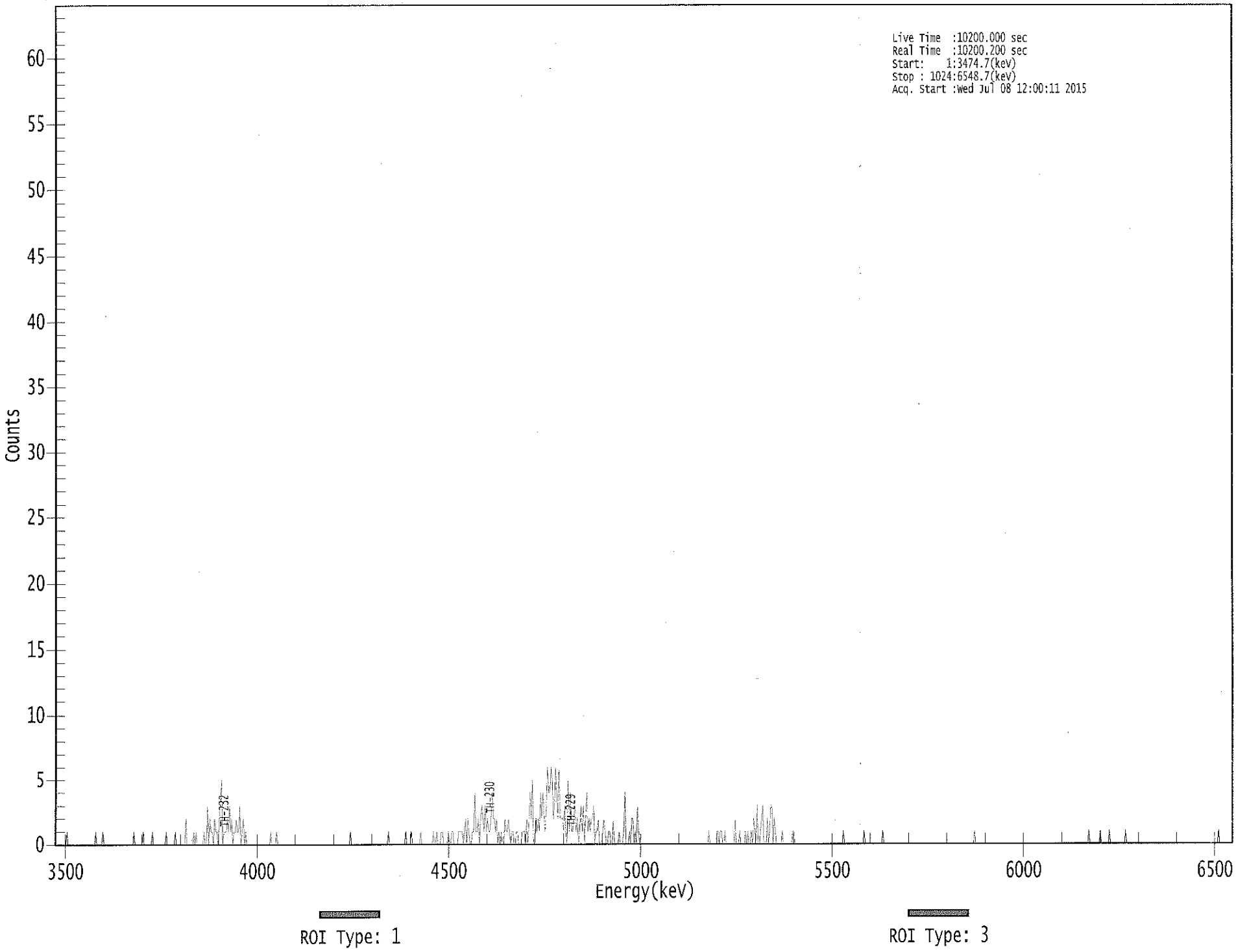
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.997	5850.00*	1.25E-002 +/- 3.01E-002	6.30E-002 +/- 1.07E-002
TH-228	0.952	5400.00*	5.81E-001 +/- 2.08E-001	6.24E-002 +/- 1.06E-002
TH-229	0.987	4872.00*	2.27E+000 +/- 3.85E-001	6.17E-002 +/- 1.04E-002
TH-230	0.981	4672.00*	1.29E+000 +/- 3.49E-001	6.15E-002 +/- 1.04E-002
TH-232	0.966	3997.00*	7.79E-001 +/- 2.50E-001	8.82E-002 +/- 1.49E-002

AG 7/10/15

0000122439.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 13

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	1	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	1	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	1	0	0	0
73:	0	0	0	0	1	0	0	0
81:	0	0	0	0	1	0	0	0
89:	0	0	0	0	0	0	0	0
97:	1	0	0	0	0	0	0	0
105:	1	0	0	0	0	0	0	0
113:	0	2	0	0	0	0	0	0
121:	1	0	1	0	0	0	0	0
129:	0	1	0	0	3	0	2	1
137:	1	0	2	1	1	0	2	3
145:	5	0	1	1	1	2	1	3
153:	1	2	0	1	1	2	1	1
161:	3	0	1	2	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	1	0	0	0	0
193:	1	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	1	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	1	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	1	0	0	0	0	1	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	0	0	0	0
329:	1	0	0	1	0	0	0	1
337:	1	0	0	0	0	1	0	0
345:	1	1	0	0	0	0	1	1
353:	1	1	0	1	2	0	2	1
361:	0	0	1	1	4	1	1	2

369:	0	2	3	2	1	3	1	2

Sample Title: 13

Channel								
377:	1	1	2	4	2	2	1	2
385:	0	1	0	1	0	0	2	1
393:	1	2	1	0	1	1	0	0
401:	1	1	0	0	0	1	1	1
409:	0	2	0	2	4	2	5	0
417:	0	2	1	2	1	4	2	4
425:	2	1	3	6	4	4	6	5
433:	2	3	6	4	2	6	2	2
441:	2	1	3	1	0	5	1	4
449:	1	1	2	3	1	2	0	1
457:	3	1	3	0	2	4	1	2
465:	1	2	2	3	0	1	1	2
473:	0	0	0	1	2	1	0	0
481:	1	1	0	0	2	0	0	0
489:	0	1	0	0	0	1	4	0
497:	0	0	1	0	2	2	0	1
505:	0	3	1	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	1
569:	0	0	0	0	0	0	1	1
577:	0	1	1	0	0	1	0	0
585:	0	0	0	0	0	0	2	0
593:	0	0	1	0	0	0	0	1
601:	0	1	0	0	1	0	2	1
609:	0	3	0	0	1	2	3	0
617:	0	0	2	0	1	3	3	0
625:	2	1	0	0	0	0	0	1
633:	0	0	0	0	0	0	0	0
641:	1	1	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	1	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	1	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	1	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	1	0

801:	0	0	0	0	0	0	0	0

Sample Title: 13

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	1	0	0	0	0	0	0
905:	0	0	0	1	0	0	0	0
913:	0	0	0	1	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	1	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	1	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

7/8/15

Sample Description: FEEBRIS1D-17.030-031
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 14
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 122511
Reagent Blank: <not performed>

Sample Size: 1.051E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:14 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.1913 +/- 0.0159
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 1.0310 +/- 0.0876

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.722	-0.19	1131.1	1.19	0.00E+000	3.0
TH-228		5.321	9.81	66.87	1.19	0.00E+000	3.0
TH-229	T	4.874	168.98	15.13	1.02	0.00E+000	9.6
TH-230		4.621	26.83	37.98	0.17	0.00E+000	3.0
TH-232		3.978	11.49	59.30	0.51	0.00E+000	3.0

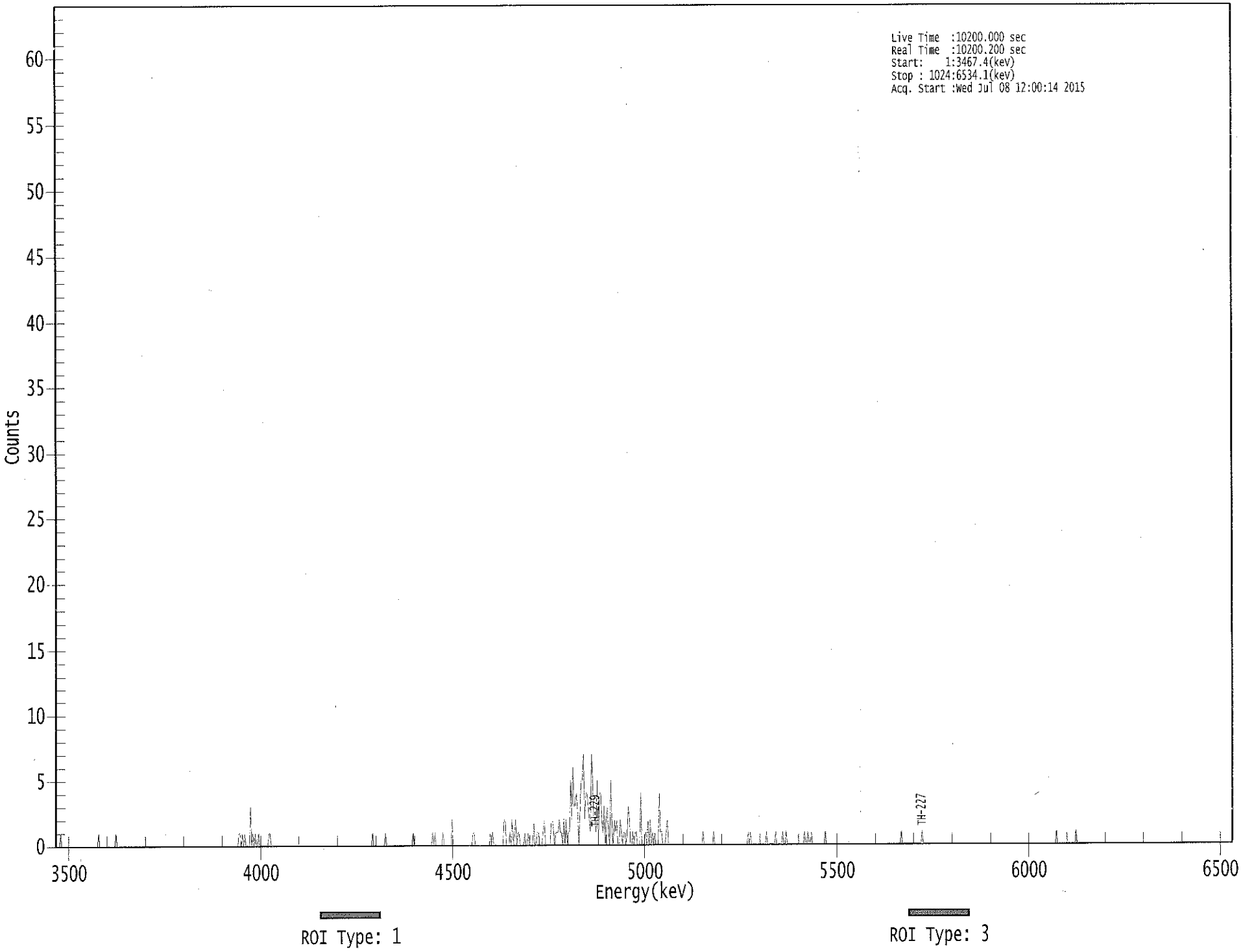
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.918	5850.00*	-2.57E-003 +/- 2.91E-002	8.91E-002 +/- 1.45E-002
TH-228	0.968	5400.00*	1.31E-001 +/- 9.05E-002	8.83E-002 +/- 1.44E-002
TH-229	1.000	4872.00*	2.24E+000 +/- 3.65E-001	8.34E-002 +/- 1.36E-002
TH-230	0.986	4672.00*	3.54E-001 +/- 1.46E-001	5.51E-002 +/- 8.98E-003
TH-232	0.998	3997.00*	1.51E-001 +/- 9.31E-002	6.91E-002 +/- 1.13E-002

AG
7/10/15

0000122441.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 14

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	1	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	1	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	1	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	1	0	1	0	1	0	0	0
169:	0	3	0	1	0	1	0	0
177:	1	0	0	0	0	0	0	0
185:	0	1	1	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	1	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	1
329:	0	1	0	0	0	0	0	0
337:	1	0	0	0	0	0	0	0
345:	2	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	1	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 14

Channel								
377:	0	1	0	1	0	0	0	0
385:	0	0	0	0	0	2	2	0
393:	0	0	1	0	2	0	1	2
401:	0	1	1	0	0	0	0	1
409:	0	0	1	0	0	0	0	2
417:	0	0	1	1	0	0	0	1
425:	2	0	0	0	0	0	2	2
433:	1	0	1	1	1	2	1	1
441:	0	2	0	2	0	1	1	5
449:	2	6	3	3	4	3	0	2
457:	5	5	7	2	4	4	3	2
465:	1	7	5	2	2	1	5	0
473:	4	4	2	1	3	0	2	3
481:	1	0	5	1	0	2	1	2
489:	0	0	2	1	0	1	1	0
497:	1	3	2	0	0	1	0	1
505:	1	0	0	0	4	0	0	0
513:	1	0	2	0	2	0	1	0
521:	1	0	0	0	4	1	1	0
529:	0	0	1	2	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	1	0	0	0	0	0
569:	0	0	0	1	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	1	0	1	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	1	0	0	0	0	0	0
625:	0	1	0	0	0	0	0	1
633:	0	0	1	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	1	0	0	1	0	0
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	1	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	1	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	1	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 14

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	1	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	1	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/8/15

Apex-Alpha™

Sample Description: FEEBRIS1D-17.033-036
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 15
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 122512
Reagent Blank: <not performed>

Sample Size: 1.022E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/22/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:17 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.1725 +/- 0.0150
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 0.9206 +/- 0.0818

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.920	2.49	138.29	0.51	0.00E+000	3.0
TH-228		5.384	11.96	62.07	2.04	0.00E+000	3.0
TH-229	T	4.859	151.98	15.96	1.02	0.00E+000	8.2
TH-230		4.628	265.66	12.03	0.34	0.00E+000	28.0
TH-232		3.950	12.28	62.76	2.72	0.00E+000	3.0

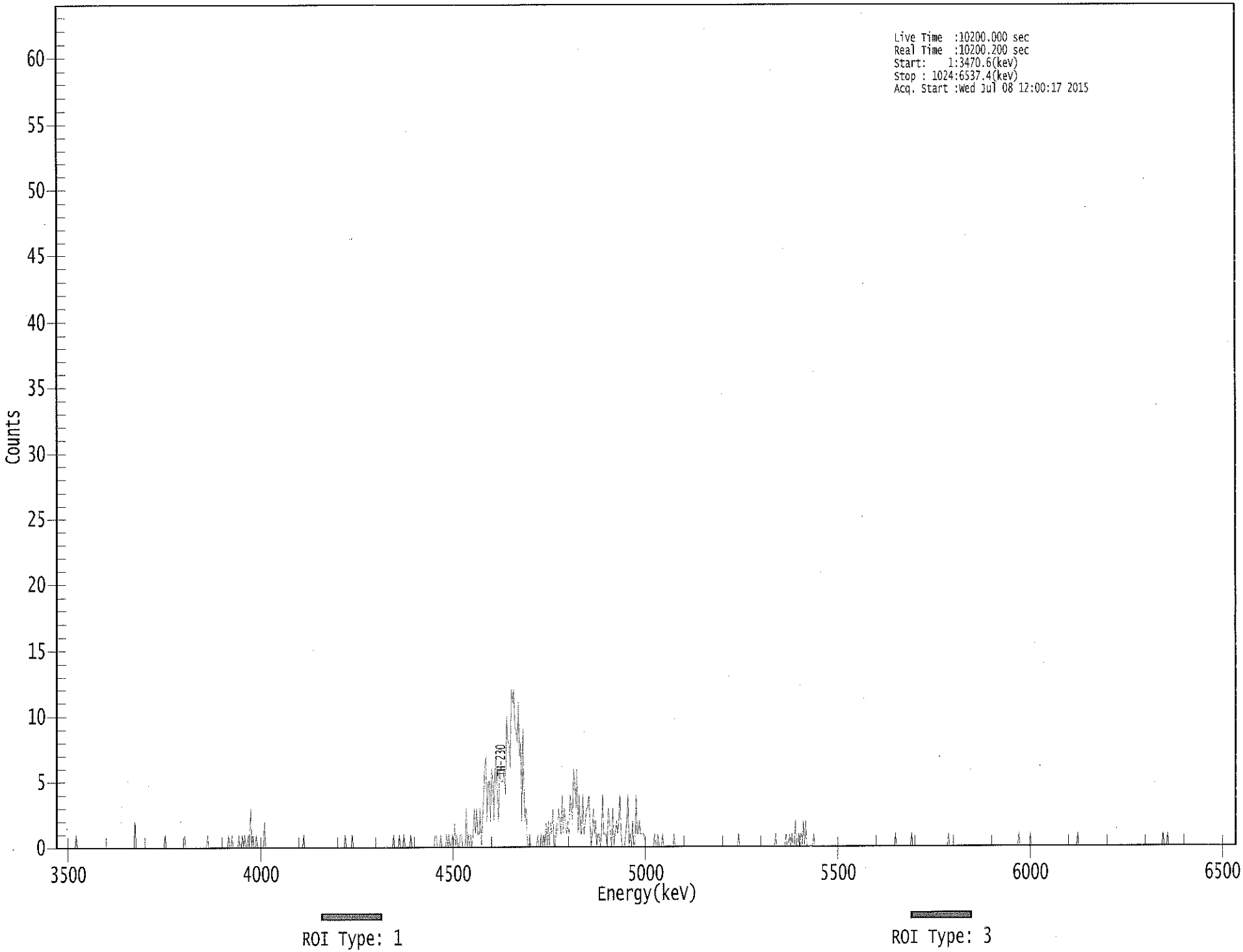
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.975	5850.00*	3.84E-002 +/- 5.36E-002	8.10E-002 +/- 1.38E-002
TH-228	0.999	5400.00*	1.83E-001 +/- 1.18E-001	1.19E-001 +/- 2.03E-002
TH-229	0.999	4872.00*	2.30E+000 +/- 3.92E-001	9.51E-002 +/- 1.62E-002
TH-230	0.990	4672.00*	4.00E+000 +/- 8.36E-001	7.20E-002 +/- 1.23E-002
TH-232	0.988	3997.00*	1.85E-001 +/- 1.20E-001	1.29E-001 +/- 2.20E-002

AG 7/10/15

0000122446.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 15

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	2	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	1	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	1
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	1	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	1	0	0
153:	1	0	0	0	0	0	1	0
161:	0	1	0	1	0	0	1	0
169:	3	0	1	0	0	1	0	0
177:	0	0	0	0	2	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	1	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	1	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	1	0	0	0
297:	0	1	0	0	0	1	0	0
305:	0	0	0	1	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	1	1	0	0	0	1	0	0
337:	0	0	1	0	1	0	0	1
345:	0	2	0	1	0	0	1	1
353:	0	0	0	3	0	1	0	1
361:	0	1	3	1	3	1	1	3

369:	0	2	4	6	7	2	5	5

Sample Title: 15

Channel								
377:	2	6	5	2	6	7	4	2
385:	6	5	5	5	6	4	10	8
393:	8	6	12	11	12	9	9	8
401:	11	7	8	2	9	4	2	3
409:	0	0	1	0	0	0	0	0
417:	0	1	0	0	1	0	1	0
425:	2	0	2	0	2	1	3	0
433:	0	2	1	3	2	1	4	1
441:	3	2	1	2	1	4	3	2
449:	6	5	3	6	1	4	1	1
457:	4	1	2	3	3	4	2	0
465:	1	3	1	2	0	1	1	0
473:	1	4	1	1	1	0	3	2
481:	1	0	3	0	1	2	1	2
489:	4	1	0	0	0	1	2	4
497:	0	1	0	2	0	0	4	1
505:	1	2	1	1	1	1	0	0
513:	0	0	0	0	0	0	1	0
521:	0	1	0	0	0	1	0	0
529:	0	0	0	0	0	0	0	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	1
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	1
625:	0	0	0	0	0	0	0	0
633:	1	0	0	1	0	1	0	0
641:	2	0	0	1	0	1	0	2
649:	0	2	0	0	0	0	0	0
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	1
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	1	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	1	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 15

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	1	0	0	0	0	0
841:	0	0	0	0	1	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	1	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	1
961:	0	0	0	1	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/8/15

Sample Description: FEEBRIS1D-13.093-094
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 16
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 122513
Reagent Blank: <not performed>

Sample Size: 1.204E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:19 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.1966 +/- 0.0161
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 1.1316 +/- 0.0950

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.839	10.66	61.14	0.34	0.00E+000	3.0
TH-228		5.385	11.81	60.30	1.19	0.00E+000	3.0
TH-229	T	4.864	173.49	14.91	0.51	0.00E+000	8.3
TH-230		4.623	381.15	10.05	0.85	0.00E+000	5.4
TH-232		3.962	23.49	40.95	0.51	0.00E+000	4.5

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	1.23E-001 +/- 7.76E-002	5.50E-002 +/- 8.86E-003
TH-228	0.999	5400.00*	1.36E-001 +/- 8.47E-002	7.57E-002 +/- 1.22E-002
TH-229	1.000	4872.00*	1.95E+000 +/- 3.14E-001	5.90E-002 +/- 9.50E-003
TH-230	0.987	4672.00*	4.27E+000 +/- 8.11E-001	6.71E-002 +/- 1.08E-002
TH-232	0.993	3997.00*	2.63E-001 +/- 1.16E-001	5.87E-002 +/- 9.46E-003

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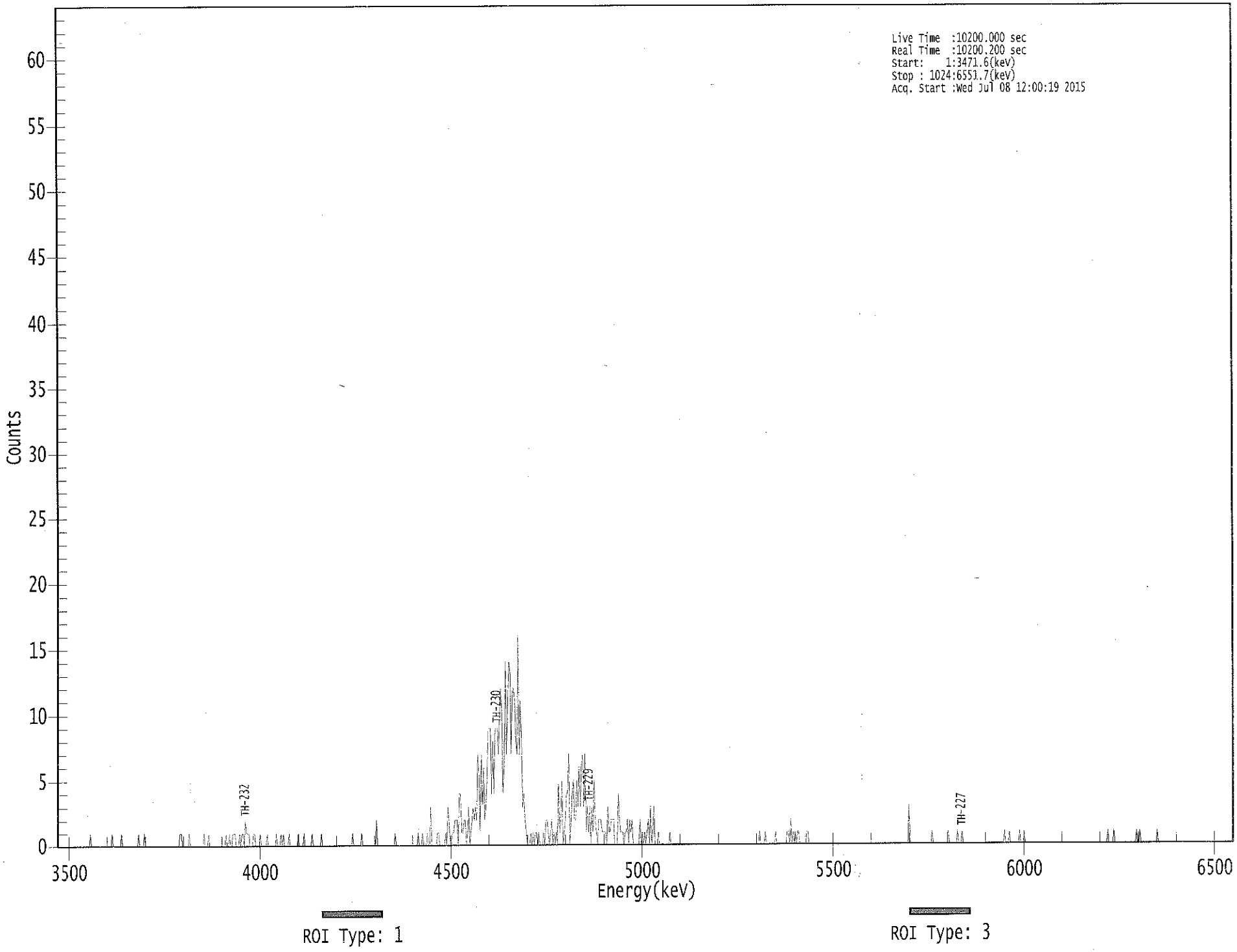
0000122447.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 16

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	1	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	1
49:	0	0	0	0	0	0	0	1
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	1	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	1	1	0	0	0	0
113:	0	0	1	0	0	0	0	0
121:	0	0	0	0	0	0	0	1
129:	0	0	0	1	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	1	0	0	1	0	0
153:	1	1	1	0	0	0	1	0
161:	1	1	0	2	1	1	1	0
169:	0	0	1	1	0	0	0	0
177:	1	0	0	0	0	0	1	0
185:	0	0	0	0	0	0	1	0
193:	0	0	1	0	1	0	0	0
201:	0	1	0	0	0	0	0	0
209:	0	1	0	0	0	0	1	0
217:	0	0	0	0	0	1	0	0
225:	0	0	0	0	0	1	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	1	0	0	0	0	0	0	0
265:	1	0	0	0	0	0	0	0
273:	0	0	0	0	0	2	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	1	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	1	0	0	0	1	0	0
321:	0	1	0	0	3	0	0	0
329:	0	0	1	1	0	0	0	0
337:	0	1	0	3	2	0	0	1
345:	1	2	2	2	0	4	4	1
353:	1	2	2	0	1	3	0	1
361:	2	3	2	3	2	7	5	1

369:	7	3	6	2	3	5	9	9

Sample Title: 16

Channel								
377:	9	4	8	4	9	9	9	7
385:	10	12	10	4	6	14	7	11
393:	14	13	7	12	12	11	8	7
401:	16	7	11	8	3	4	2	1
409:	0	0	0	1	0	1	0	1
417:	1	0	1	0	0	0	1	0
425:	2	2	1	0	1	2	0	1
433:	0	1	0	5	1	2	5	0
441:	1	2	4	4	7	0	2	4
449:	5	2	2	5	3	6	3	6
457:	7	3	7	1	3	1	3	0
465:	3	1	5	2	1	0	2	2
473:	2	1	1	1	1	0	3	1
481:	1	2	2	2	0	0	0	4
489:	2	1	1	1	0	1	1	2
497:	0	2	1	2	0	0	0	0
505:	0	0	2	0	1	0	1	0
513:	1	2	0	3	0	1	3	0
521:	0	0	1	0	0	0	0	0
529:	0	0	0	0	1	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	1	0	0	0	0	1
617:	0	0	0	0	0	0	0	0
625:	1	0	0	0	0	0	0	0
633:	0	0	1	1	0	2	0	1
641:	0	1	0	1	1	0	0	0
649:	0	0	0	1	1	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	3	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	1	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	1	0
777:	0	0	0	0	0	0	1	0
785:	0	0	1	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 16

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	1
825:	0	0	0	1	0	0	0	0
833:	0	0	0	0	1	0	0	0
841:	1	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	1	0	0	0	0	1	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	1	0	0	1	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	1	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

VLD 7/9/15

Apex-Alpha™

Sample Description: FEEBRIS1D-13.085-086
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 17
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 122514
Reagent Blank: <not performed>

Sample Size: 1.302E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:22 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.1889 +/- 0.0158
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.9453 +/- 0.0808

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.898	3.15	126.67	0.85	0.00E+000	3.0
TH-228		5.369	35.81	33.38	1.19	0.00E+000	3.0
TH-229	T	4.895	166.32	15.23	0.68	0.00E+000	3.4
TH-230		4.643	57.15	26.15	0.85	0.00E+000	10.0
TH-232		3.954	48.00	28.58	0.00	0.00E+000	4.4

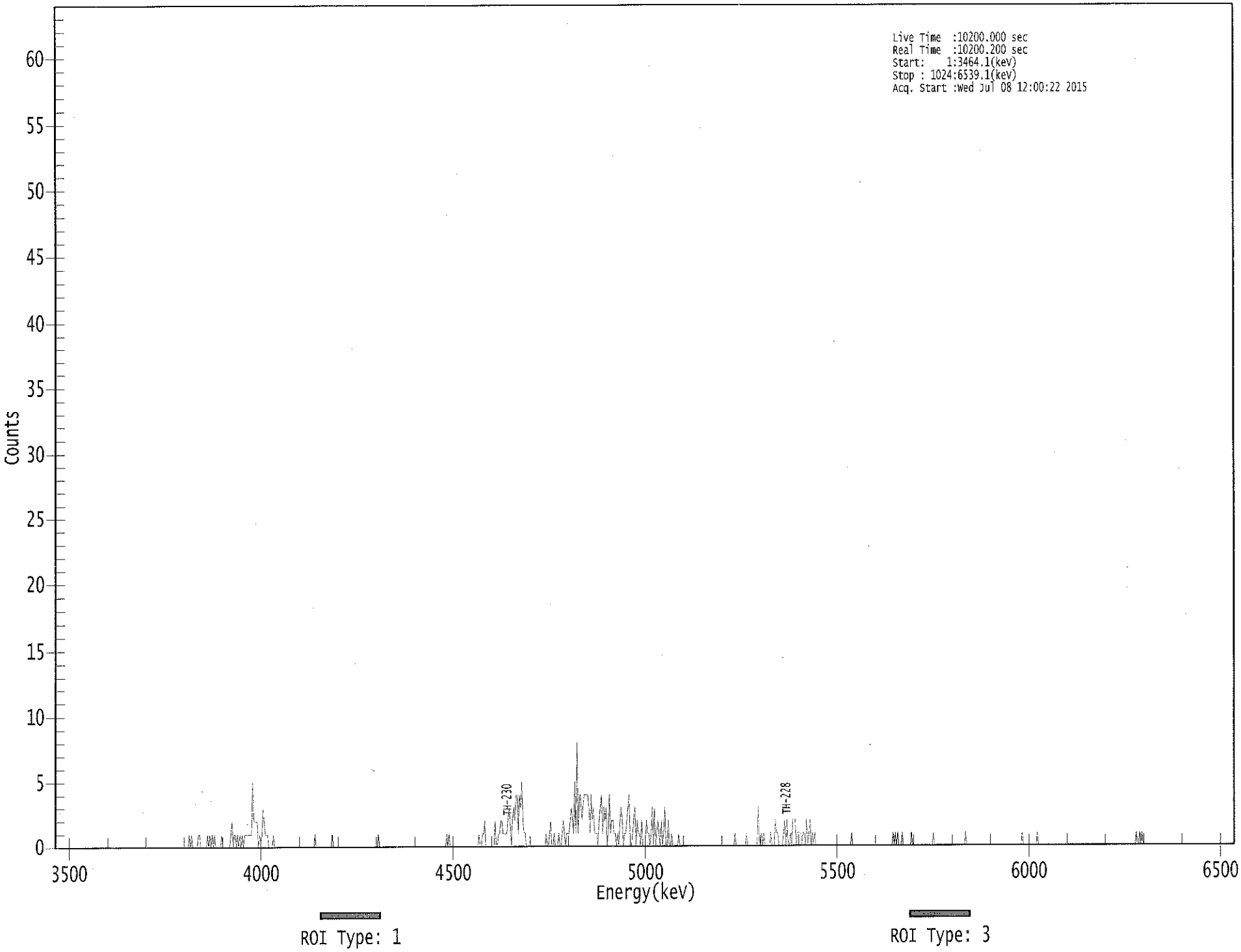
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.988	5850.00*	3.49E-002 +/- 4.46E-002	6.63E-002 +/- 1.09E-002
TH-228	0.995	5400.00*	3.96E-001 +/- 1.47E-001	7.29E-002 +/- 1.20E-002
TH-229	0.997	4872.00*	1.80E+000 +/- 2.95E-001	6.11E-002 +/- 1.00E-002
TH-230	0.996	4672.00*	6.17E-001 +/- 1.90E-001	6.46E-002 +/- 1.06E-002
TH-232	0.990	3997.00*	5.17E-001 +/- 1.70E-001	6.46E-002 +/- 1.06E-002

AG
7/10/15

0000122440.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 17

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	1	0	1	0
121:	0	0	0	0	1	1	0	0
129:	0	0	0	0	1	0	1	0
137:	1	0	1	0	0	0	0	0
145:	1	0	0	0	0	0	0	0
153:	1	2	0	1	1	0	1	0
161:	1	0	1	0	1	1	1	1
169:	1	1	1	5	2	2	2	2
177:	0	1	0	1	3	2	1	1
185:	1	0	0	0	0	1	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	1	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	1	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	1	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	1	0	1	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	1

369:	0	0	1	1	2	0	0	0

Sample Title: 17

Channel								
377:	0	0	0	0	0	2	0	0
385:	1	1	2	2	1	1	1	1
393:	2	3	2	0	2	3	2	4
401:	4	1	4	3	5	2	1	1
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	1	0	0	1	2	0	0
433:	1	0	0	0	1	0	0	1
441:	2	1	0	1	1	1	2	3
449:	2	1	5	1	8	1	4	4
457:	2	3	4	4	4	4	3	1
465:	4	2	3	1	1	1	0	2
473:	3	4	1	3	2	3	0	1
481:	4	1	2	2	1	1	0	1
489:	0	2	3	2	0	1	1	2
497:	3	4	0	0	1	2	3	0
505:	2	1	1	0	2	0	0	0
513:	2	1	1	0	1	3	0	3
521:	0	1	2	1	0	2	0	1
529:	3	0	0	2	0	0	1	0
537:	0	0	0	0	1	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	1	0	0
593:	0	0	0	0	0	0	0	1
601:	0	0	0	0	0	0	0	0
609:	0	3	0	0	1	0	1	0
617:	0	0	0	0	1	0	0	0
625:	2	1	1	0	0	0	0	1
633:	2	0	2	0	0	1	0	2
641:	2	2	0	1	1	1	1	0
649:	1	1	0	2	0	1	2	0
657:	1	0	1	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	1	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	1	0
729:	1	0	1	0	0	0	1	0
737:	0	0	0	0	0	0	1	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	1	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	1	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 17

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	1	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	1	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	1	0	0	1	0	1	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/8/15

Sample Description: FEEBRIS1D-14.082-084
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 18
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 122515
Reagent Blank: <not performed>

Sample Size: 1.106E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:24 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.2041 +/- 0.0165
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.1114 +/- 0.0919

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.731	3.00	130.67	0.00	0.00E+000	3.0
TH-228		5.382	21.66	42.50	0.34	0.00E+000	5.2
TH-229	T	4.890	179.83	14.62	0.17	0.00E+000	5.7
TH-230		4.642	62.83	24.77	0.17	0.00E+000	3.4
TH-232		3.980	28.66	36.86	0.34	0.00E+000	3.0

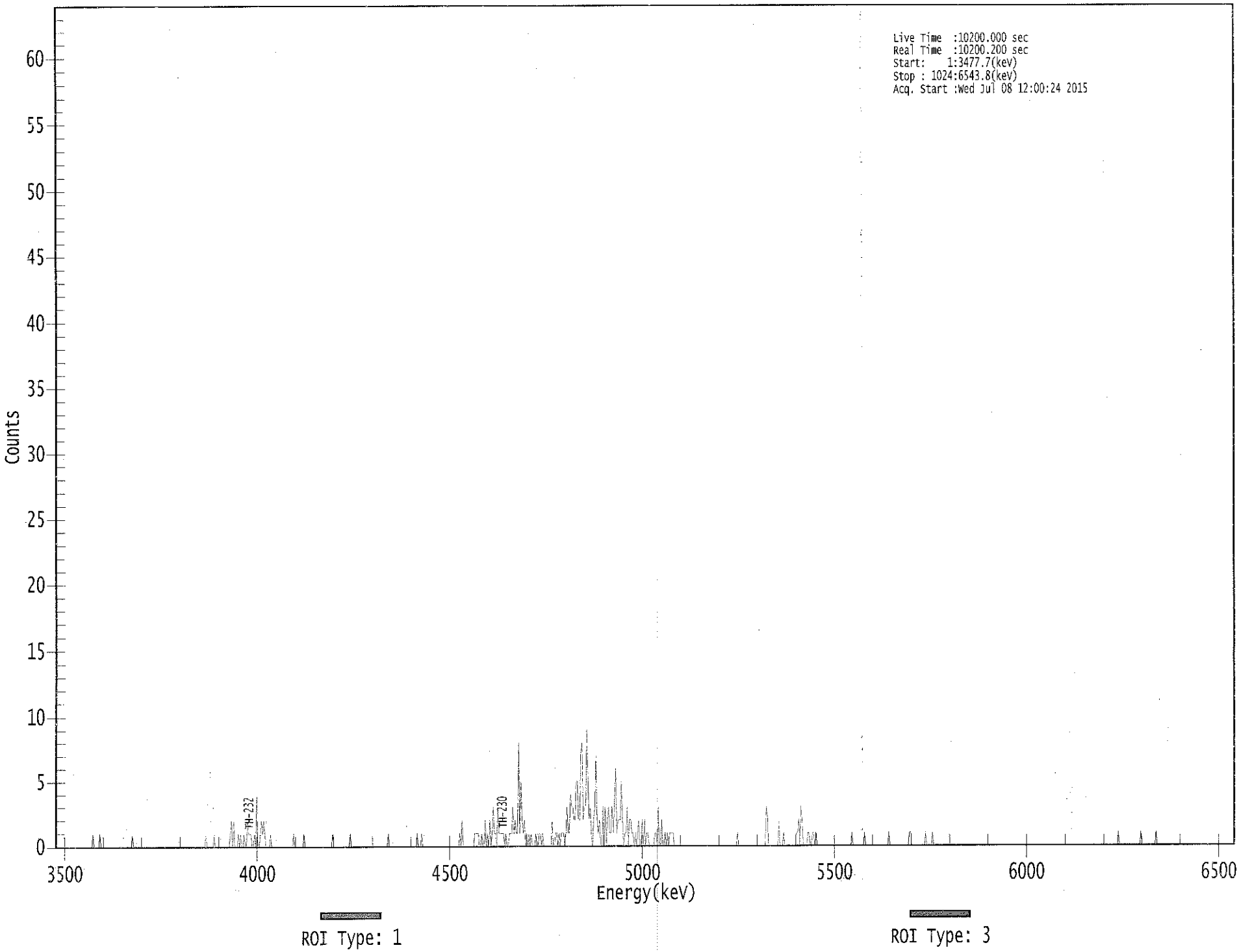
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.928	5850.00*	3.62E-002 +/- 4.76E-002	7.23E-002 +/- 1.15E-002
TH-228	0.998	5400.00*	2.61E-001 +/- 1.18E-001	5.76E-002 +/- 9.13E-003
TH-229	0.998	4872.00*	2.12E+000 +/- 3.36E-001	4.92E-002 +/- 7.79E-003
TH-230	0.995	4672.00*	7.39E-001 +/- 2.17E-001	4.91E-002 +/- 7.77E-003
TH-232	0.998	3997.00*	3.36E-001 +/- 1.35E-001	5.61E-002 +/- 8.89E-003

AG
7/10/15

0000122442.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 18

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	1	0	0	0	0	0	1	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	1	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	1	0	0	0	0	0
137:	0	1	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	1
153:	2	0	2	0	0	0	1	0
161:	1	0	0	1	0	0	2	1
169:	1	1	0	0	1	0	4	0
177:	0	1	2	1	2	1	0	0
185:	0	0	1	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	1	0
209:	0	0	0	0	0	0	0	1
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	1	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	1
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	1	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	1	0	0	0	1	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	2	0	0	0	0	0	0	0
361:	0	0	0	1	1	1	1	0

369:	0	1	0	0	2	0	1	0

Sample Title: 18

Channel								
377:	2	0	1	3	1	1	0	3
385:	1	1	1	1	1	0	1	0
393:	0	1	1	1	3	1	2	1
401:	1	8	1	5	2	1	2	0
409:	1	0	1	0	1	0	0	0
417:	1	0	0	1	1	0	1	0
425:	0	0	0	0	0	0	2	0
433:	0	1	1	0	1	0	1	1
441:	1	0	1	3	1	1	4	3
449:	3	2	2	5	5	2	2	7
457:	8	2	3	3	9	5	2	3
465:	1	0	2	3	7	2	1	2
473:	0	0	3	0	3	0	2	3
481:	1	1	3	1	3	6	1	2
489:	2	2	5	2	0	1	1	3
497:	0	2	2	1	1	0	1	0
505:	1	2	0	0	2	0	2	0
513:	1	1	0	0	0	0	0	1
521:	1	0	3	0	0	2	0	0
529:	1	0	1	0	1	1	1	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	1
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	3	2	0	0	0	0	0	0
625:	0	0	0	2	0	0	0	1
633:	0	0	0	0	0	0	0	0
641:	0	0	1	1	2	0	3	2
649:	0	0	0	0	1	1	0	0
657:	1	1	0	1	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	1	0	0	0	0	0
697:	0	0	0	0	0	1	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	1	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	1	1	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	1	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 18

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	1	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	1	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	1	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	FEEBRIS1D-14.054-056
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification:	1506114A-TH
Sample Identification:	19
Sample Geometry:	Shelf 2
Procedure Description:	Th iso
Detector Name:	Alpha_046
Chamber Serial Number:	04026482B
Detector Serial Number:	58762
Env. Background:	System Bkgd 122516
Reagent Blank:	<not performed>
Sample Size:	1.150E+000 +/- 0.000E+000 gram
Sample Date/Time:	6/12/2015 6:33:14 AM
Acquisition Date/Time:	7/8/2015 12:00:27 PM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	Th229_S_TH-18A
Tracer Quantity:	0.231 mL
Effective Efficiency:	0.2167 +/- 0.0172
Counting Efficiency:	0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor:	1.2203 +/- 0.0993
Peak Match Tolerance:	0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.739	0.13	2295.4	1.87	0.00E+000	3.0
TH-228		5.307	2.28	200.92	2.72	0.00E+000	3.0
TH-229	T	4.873	191.09	14.35	3.91	0.00E+000	4.7
TH-230		4.615	19.47	46.42	1.53	0.00E+000	5.3
TH-232		3.972	1.94	237.37	3.06	0.00E+000	3.0

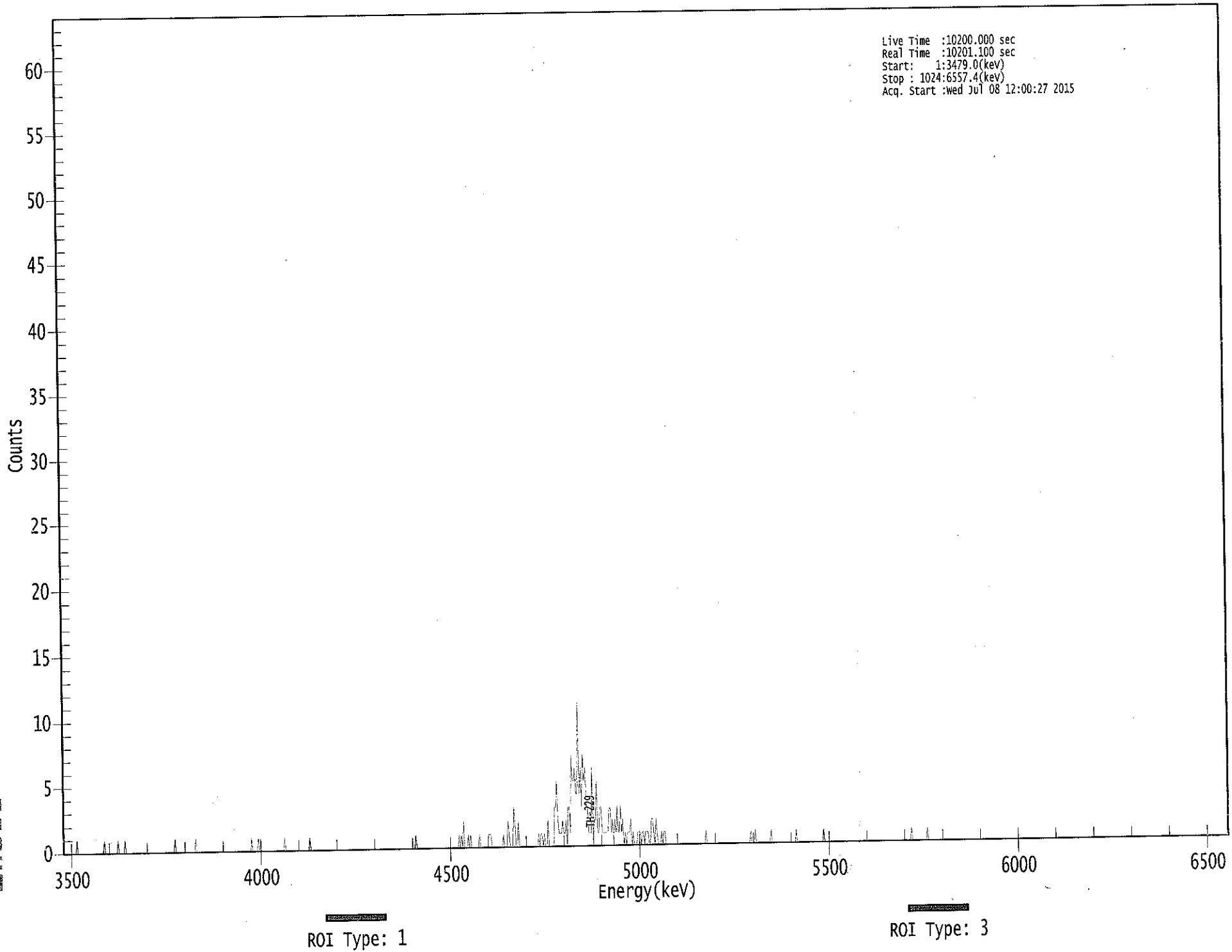
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.938	5850.00*	1.42E-003 +/- 3.26E-002	8.28E-002 +/- 1.29E-002
TH-228	0.956	5400.00*	2.49E-002 +/- 5.02E-002	9.36E-002 +/- 1.46E-002
TH-229	1.000	4872.00*	2.04E+000 +/- 3.18E-001	1.04E-001 +/- 1.62E-002
TH-230	0.983	4672.00*	2.07E-001 +/- 1.02E-001	7.57E-002 +/- 1.18E-002
TH-232	0.997	3997.00*	2.06E-002 +/- 4.91E-002	9.49E-002 +/- 1.48E-002

AG 7/8/15

0000122436.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 19

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	1	0	0	0
41:	0	0	0	0	0	0	0	0
49:	1	0	0	0	0	0	1	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	1	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	1	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	1	0	0
169:	0	0	0	1	0	1	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	1	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	1	0	1	0	2
353:	0	0	0	1	0	1	0	0
361:	0	0	0	0	0	1	0	0

369:	0	0	0	0	0	1	1	1

Sample Title: 19

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	1	0	0	0	2	1
393:	0	0	0	3	2	0	0	2
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	1	0	1	1	0	1	0
425:	0	2	0	0	0	0	0	3
433:	3	5	2	1	1	1	2	1
441:	1	2	0	3	3	1	7	5
449:	5	6	4	4	11	4	6	3
457:	7	5	6	3	3	1	1	1
465:	6	0	2	2	5	1	1	3
473:	3	1	1	1	1	1	1	3
481:	3	1	2	0	2	1	3	1
489:	1	3	1	2	0	1	0	1
497:	1	1	2	0	1	0	0	0
505:	1	1	1	0	1	1	0	1
513:	1	1	0	0	2	2	1	0
521:	2	1	0	0	0	1	0	1
529:	1	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	1	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	1	0	0	0	1
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	1	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	1	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	1	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	1	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	1	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 19

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

VB 7/8/15

Apex-Alpha™

Sample Description: FEEBRIS1D-09.088-089
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506114A-TH
Sample Identification: 20
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_047
Chamber Serial Number: 02030596A
Detector Serial Number: 91086
Env. Background: System Bkgd 122517
Reagent Blank: <not performed>

Sample Size: 1.070E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/11/2015 6:33:14 AM
Acquisition Date/Time: 7/8/2015 12:00:30 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.2015 +/- 0.0164
Counting Efficiency: 0.1650 +/- 0.0029 on 10/25/2014 3:23:35 PM
Chem. Recovery Factor: 1.2209 +/- 0.1015

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.909	183.49	14.49	0.51	0.00E+000	3.3
TH-228		5.358	14.81	53.27	1.19	0.00E+000	3.0
TH-229	T	4.873	177.66	14.72	0.34	0.00E+000	3.6
TH-230		4.627	25677.49	1.22	0.51	0.00E+000	83.7
TH-232		3.954	158.15	15.63	0.85	0.00E+000	4.5

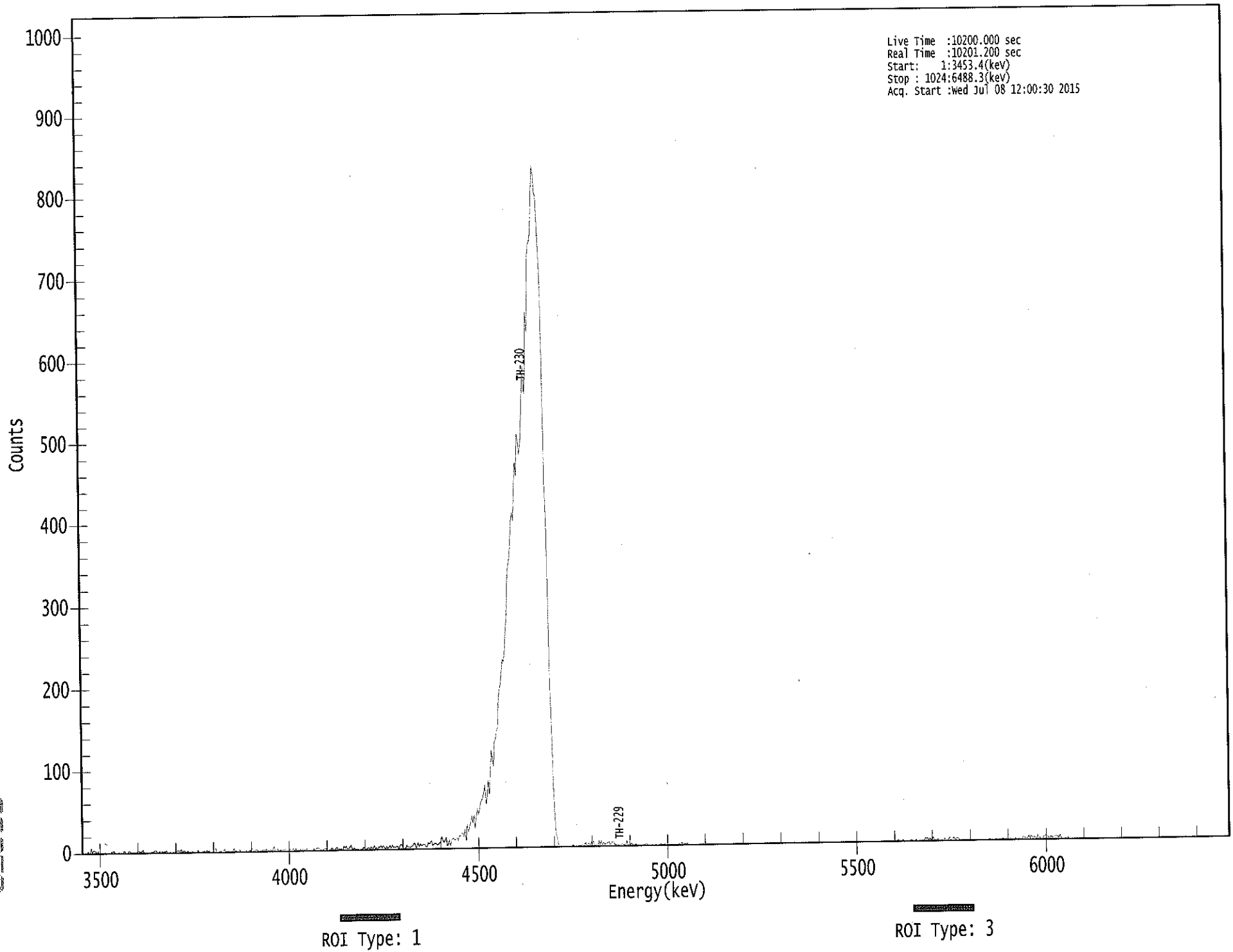
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.982	5850.00*	2.32E+000 +/- 4.99E-001	6.63E-002 +/- 1.06E-002
TH-228	0.991	5400.00*	1.87E-001 +/- 1.04E-001	8.32E-002 +/- 1.33E-002
TH-229	1.000	4872.00*	2.19E+000 +/- 3.49E-001	5.90E-002 +/- 9.40E-003
TH-230	0.990	4672.00*	3.16E+002 +/- 5.05E+001	6.46E-002 +/- 1.03E-002
TH-232	0.990	3997.00*	1.94E+000 +/- 4.34E-001	7.35E-002 +/- 1.17E-002

AG 7/10/15

0000122443.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 20

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	2	1	0	1	0	3	1	0
9:	6	1	4	3	3	0	3	0
17:	0	0	0	0	1	1	0	1
25:	0	0	2	2	3	1	0	0
33:	1	1	0	1	0	3	2	0
41:	0	2	3	1	1	0	0	1
49:	0	2	2	2	1	2	4	0
57:	0	0	1	0	0	1	1	1
65:	2	3	3	0	1	2	0	2
73:	1	2	1	3	1	0	1	0
81:	0	1	0	2	2	3	2	2
89:	4	1	2	2	1	1	2	0
97:	0	1	1	1	0	1	0	3
105:	1	0	0	1	1	2	0	3
113:	1	2	0	0	1	2	0	5
121:	0	0	1	1	2	2	2	4
129:	1	0	2	0	0	1	1	5
137:	1	2	1	1	3	1	1	0
145:	1	0	2	0	1	2	1	4
153:	2	0	2	3	2	0	0	2
161:	0	2	2	2	3	1	1	2
169:	2	0	3	6	0	0	3	1
177:	1	2	0	2	2	3	2	0
185:	1	3	2	2	3	0	4	1
193:	1	0	2	1	3	0	2	0
201:	3	1	1	1	1	0	3	1
209:	2	3	4	3	1	1	0	2
217:	2	3	1	0	1	1	3	2
225:	0	1	3	4	0	2	1	2
233:	0	5	3	5	2	2	3	6
241:	3	0	3	1	1	1	1	0
249:	1	0	3	3	1	1	2	3
257:	0	4	2	2	5	1	3	0
265:	4	3	5	2	5	3	1	4
273:	1	3	5	2	5	2	4	2
281:	4	4	0	5	6	5	0	1
289:	2	5	3	3	2	4	4	7
297:	8	1	4	8	3	7	4	5
305:	6	5	3	3	8	6	8	10
313:	4	6	7	7	5	5	7	8
321:	15	11	8	10	14	4	5	10
329:	4	11	13	12	10	13	13	10
337:	16	15	19	19	14	23	9	29
345:	21	26	30	39	31	40	25	38
353:	48	41	46	55	59	61	68	76
361:	53	63	83	65	86	120	110	99

369:	130	133	143	148	181	194	201	217

Sample Title: 20

Channel								
377:	230	228	242	267	286	329	343	353
385:	370	399	409	400	442	472	455	507
393:	496	481	497	520	566	590	556	582
401:	656	632	720	740	741	752	800	834
409:	826	802	796	762	726	691	578	446
417:	398	296	196	144	81	38	17	10
425:	3	3	0	0	0	0	1	0
433:	0	1	0	0	1	2	1	0
441:	1	0	1	1	1	2	1	1
449:	5	1	1	4	1	5	2	6
457:	1	2	1	0	7	2	7	1
465:	5	2	3	4	4	5	2	3
473:	5	5	3	1	2	1	1	2
481:	2	2	2	1	1	6	0	0
489:	2	3	2	0	1	2	1	1
497:	1	1	0	0	2	1	2	2
505:	1	1	1	1	1	0	1	1
513:	0	0	1	2	1	1	1	2
521:	0	0	1	1	0	1	1	1
529:	0	0	1	0	2	0	3	2
537:	1	2	1	3	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	1	0	0
569:	0	0	0	0	0	1	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	1	0
617:	0	0	0	0	0	0	0	0
625:	0	1	0	0	0	0	0	0
633:	0	0	1	1	0	0	0	1
641:	0	1	0	0	1	1	0	0
649:	0	0	0	1	1	0	0	0
657:	0	0	0	0	1	1	0	1
665:	0	0	1	0	1	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	1	0	0	0	0	1	0	0
721:	1	0	0	0	0	0	1	2
729:	0	0	0	2	0	0	0	1
737:	0	0	2	1	1	0	1	2
745:	0	0	0	0	1	1	1	4
753:	3	4	1	3	2	0	5	1
761:	2	1	3	1	0	1	2	0
769:	3	2	0	1	3	4	0	1
777:	4	3	1	3	4	1	1	0
785:	0	0	1	0	0	0	1	0
793:	0	0	0	0	1	0	0	0

801:	0	0	0	0	0	1	0	1

Sample Title: 20

Channel								
809:	1	1	0	0	0	1	1	1
817:	0	1	0	1	2	1	0	2
825:	0	1	0	3	1	0	0	2
833:	1	1	2	1	2	1	4	3
841:	2	2	2	5	1	5	3	4
849:	3	1	1	5	3	2	0	0
857:	4	4	5	4	4	2	2	4
865:	2	3	4	4	4	4	2	5
873:	2	0	0	0	1	0	2	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	1
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/8/2015 5:35:29 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 7/8/2015
Time : 5:35:29 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/8/2015 5:11:48 AM
Alpha_004	21f	ALL	Passed	7/8/2015 5:11:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/8/2015 5:11:49 AM
Alpha_011	21f	ALL	Passed	7/8/2015 5:11:50 AM
Alpha_012	21f	ALL	Passed	7/8/2015 5:11:51 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/8/2015 5:11:52 AM
Alpha_015	21f	Peak Energy	Action	7/8/2015 5:11:53 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:54 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:57 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:59 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:00 AM
Alpha_038	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:02 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:04 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:05 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:07 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:09 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:10 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:12 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:13 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:15 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:17 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:18 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:20 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:22 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:24 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:26 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:28 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	7/8/2015 5:12:30 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:31 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:33 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:35 AM

Review of QA Results - Pulser Check

7/8/2015 5:35:29 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:37 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:39 AM

APPROVED BY: _____

APPROVAL DATE: 7/8

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

15-06114
Gamma
Run 1

Work Order	15-06114
Analysis Code	Gamma
Run	1
Date Received	6/29/2015
Lab Deadline	7/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/29/15 00:00	1.0000E+00
02	MBL	BLANK		06/29/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-09.099-100	47	06/17/15 13:14	7.4411E+02
04	DO	FEEBRIS1D-09.099-100	47	06/17/15 13:14	7.4411E+02
05	TRG	FEEBRIS1D-09.078-079	54	06/17/15 13:00	1.4513E+02
06	TRG	FEEBRIS1D-01.007-009	53	06/22/15 10:07	5.8261E+02
07	TRG	FEEBRIS1D-01.024-027	44	06/22/15 10:15	5.0343E+02
08	TRG	FEEBRIS1D-02.027-030	63	06/22/15 11:04	2.8408E+02
09	TRG	FEEBRIS1D-02.020-023	66	06/22/15 11:20	5.5484E+02
10	TRG	FEEBRIS1D-02.036-037	63	06/22/15 11:30	5.7099E+02
11	TRG	FEEBRIS1D-18.013-014	48	06/22/15 12:47	3.4616E+02
12	TRG	FEEBRIS1D-18.038-041	37	06/22/15 12:56	1.7576E+02
13	TRG	FEEBRIS1D-18.044-046	61	06/22/15 13:04	5.6925E+02
14	TRG	FEEBRIS1D-17.030-031	48	06/22/15 14:56	4.5812E+02
15	TRG	FEEBRIS1D-17.033-036	65	06/22/15 15:03	4.7393E+02
16	TRG	FEEBRIS1D-13.093-094	61	06/12/15 14:15	6.8356E+02
17	TRG	FEEBRIS1D-13.085-086	60	06/12/15 14:32	6.1327E+02
18	TRG	FEEBRIS1D-14.082-084	49	06/12/15 14:51	6.3366E+02
19	TRG	FEEBRIS1D-14.054-056	40	06/12/15 14:58	1.3343E+02
20	TRG	FEEBRIS1D-09.088-089	78	06/11/15 08:55	3.3163E+02

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06114
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								
05	TRG				0.00								
06	TRG				0.00								
07	TRG				0.00								
08	TRG				0.00								
09	TRG				0.00								
10	TRG				0.00								
11	TRG				0.00								
12	TRG				0.00								
13	TRG				0.00								
14	TRG				0.00								
15	TRG				0.00								
16	TRG				0.00								
17	TRG				0.00								
18	TRG				0.00								
19	TRG				0.00								
20	TRG				0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06114
Gamma
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	07/01/15 07:40	KSALLINGS						
05	TRG	07/01/15 07:40	KSALLINGS						
06	TRG	07/01/15 07:40	KSALLINGS						
07	TRG	07/01/15 07:40	KSALLINGS						
08	TRG	07/01/15 07:40	KSALLINGS						
09	TRG	07/01/15 07:40	KSALLINGS						
10	TRG	07/01/15 07:40	KSALLINGS						
11	TRG	07/01/15 07:40	KSALLINGS						
12	TRG	07/01/15 07:40	KSALLINGS						
13	TRG	07/01/15 07:40	KSALLINGS						
14	TRG	07/01/15 07:40	KSALLINGS						
15	TRG	07/01/15 07:40	KSALLINGS						
16	TRG	07/01/15 07:40	KSALLINGS						
17	TRG	07/01/15 07:40	KSALLINGS						
18	TRG	07/01/15 07:40	KSALLINGS						
19	TRG	07/01/15 07:40	KSALLINGS						
20	TRG	07/01/15 07:40	KSALLINGS						

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-06114-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.38E+02	8.90E+00	6.95E-01	1.37E+02	100.96	OK		06/29/15 00:00	1.00E+00	07/21/15 07:13	YES
01	CS-137	LCS	LCS	pCi/g	8.79E+01	7.48E+00	1.04E+00	8.69E+01	101.12	OK		06/29/15 00:00	1.00E+00	07/21/15 07:13	YES
02	AC-228	MBL	BLANK	pCi/g	5.48E-03	8.71E-02	1.39E-01					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	BI-214	MBL	BLANK	pCi/g	1.56E-02	4.68E-02	7.96E-02					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	K-40	MBL	BLANK	pCi/g	1.91E-01	1.42E-01	4.10E-01					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	PA-231	MBL	BLANK	pCi/g	-5.19E-02	6.91E-01	1.05E+00					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	PB-210	MBL	BLANK	pCi/g	4.68E-01	5.80E-01	8.31E-01					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	PB-212	MBL	BLANK	pCi/g	2.97E-02	3.81E-02	6.33E-02					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	PB-214	MBL	BLANK	pCi/g	6.13E-03	4.61E-02	7.31E-02					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	RA-226	MBL	BLANK	pCi/g	1.56E-02	4.68E-02	7.96E-02					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	RA-228	MBL	BLANK	pCi/g	5.48E-03	8.71E-02	1.39E-01					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	TH-234	MBL	BLANK	pCi/g	9.21E-01	3.87E-01	6.56E-01					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
02	TL-208	MBL	BLANK	pCi/g	2.92E-02	4.55E-02	9.21E-02					06/29/15 00:00	1.00E+00	07/21/15 08:18	NO
03	AC-228	DUP	FEEBRIS1D-09.099-100	pCi/g	4.76E-01	1.31E-01	2.88E-01					06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	BI-214	DUP	FEEBRIS1D-09.099-100	pCi/g	4.78E-01	9.37E-02	1.51E-01					06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	K-40	DUP	FEEBRIS1D-09.099-100	pCi/g	1.48E+01	1.67E+00	6.47E-01				NA	06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	PA-231	DUP	FEEBRIS1D-09.099-100	pCi/g	-3.62E-01	9.13E-01	1.45E+00				NA	06/17/15 13:14	7.44E+02	07/22/15 08:26	NO
03	PB-210	DUP	FEEBRIS1D-09.099-100	pCi/g	1.29E+00	1.36E+00	2.26E+00				NA	06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	PB-212	DUP	FEEBRIS1D-09.099-100	pCi/g	4.06E-01	7.08E-02	1.39E-01					06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	PB-214	DUP	FEEBRIS1D-09.099-100	pCi/g	6.35E-01	9.46E-02	1.22E-01					06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	RA-226	DUP	FEEBRIS1D-09.099-100	pCi/g	4.78E-01	9.37E-02	1.51E-01					06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	RA-228	DUP	FEEBRIS1D-09.099-100	pCi/g	4.76E-01	1.31E-01	2.88E-01					06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
03	TH-234	DUP	FEEBRIS1D-09.099-100	pCi/g	1.27E+00	9.16E-01	1.26E+00					06/17/15 13:14	7.44E+02	07/22/15 08:26	NO
03	TL-208	DUP	FEEBRIS1D-09.099-100	pCi/g	3.72E-01	8.25E-02	7.12E-02					06/17/15 13:14	7.44E+02	07/22/15 08:26	YES
04	AC-228	DO	FEEBRIS1D-09.099-100	pCi/g	4.25E-01	1.15E-01	3.68E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
04	BI-214	DO	FEEBRIS1D-09.099-100	pCi/g	6.63E-01	9.33E-02	1.66E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
04	K-40	DO	FEEBRIS1D-09.099-100	pCi/g	1.54E+01	1.73E+00	7.27E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
04	PA-231	DO	FEEBRIS1D-09.099-100	pCi/g	4.24E-01	8.97E-01	1.52E+00					06/17/15 13:14	7.44E+02	07/22/15 09:29	NO
04	PB-210	DO	FEEBRIS1D-09.099-100	pCi/g	9.58E-01	1.01E+00	1.38E+00					06/17/15 13:14	7.44E+02	07/22/15 09:29	NO
04	PB-212	DO	FEEBRIS1D-09.099-100	pCi/g	4.43E-01	7.53E-02	1.43E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
04	PB-214	DO	FEEBRIS1D-09.099-100	pCi/g	7.23E-01	1.03E-01	1.44E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
04	RA-226	DO	FEEBRIS1D-09.099-100	pCi/g	6.63E-01	9.33E-02	1.66E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
04	RA-228	DO	FEEBRIS1D-09.099-100	pCi/g	4.25E-01	1.15E-01	3.68E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
04	TH-234	DO	FEEBRIS1D-09.099-100	pCi/g	1.02E+00	9.51E-01	1.27E+00					06/17/15 13:14	7.44E+02	07/22/15 09:29	NO
04	TL-208	DO	FEEBRIS1D-09.099-100	pCi/g	3.25E-01	7.69E-02	1.32E-01					06/17/15 13:14	7.44E+02	07/22/15 09:29	YES
05	AC-228	TRG	FEEBRIS1D-09.078-079	pCi/g	1.65E-01	4.36E-01	7.44E-01					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
05	BI-214	TRG	FEEBRIS1D-09.078-079	pCi/g	2.06E-01	2.53E-01	4.29E-01					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
05	K-40	TRG	FEEBRIS1D-09.078-079	pCi/g	1.20E+00	1.26E+00	2.02E+00					06/17/15 13:00	1.45E+02	07/22/15 08:27	YES

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
05	PA-231	TRG	FEEBRIS1D-09.078-079	pCi/g	-1.89E+00	3.48E+00	3.97E+00					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
05	PB-210	TRG	FEEBRIS1D-09.078-079	pCi/g	9.01E+00	7.38E+00	1.21E+01					06/17/15 13:00	1.45E+02	07/22/15 08:27	YES
05	PB-212	TRG	FEEBRIS1D-09.078-079	pCi/g	5.49E-01	2.80E-01	4.37E-01					06/17/15 13:00	1.45E+02	07/22/15 08:27	YES
05	PB-214	TRG	FEEBRIS1D-09.078-079	pCi/g	1.93E-01	2.85E-01	4.22E-01					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
05	RA-226	TRG	FEEBRIS1D-09.078-079	pCi/g	2.06E-01	2.53E-01	4.29E-01					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
05	RA-228	TRG	FEEBRIS1D-09.078-079	pCi/g	1.65E-01	4.36E-01	7.44E-01					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
05	TH-234	TRG	FEEBRIS1D-09.078-079	pCi/g	2.10E+00	1.48E+00	2.67E+00					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
05	TL-208	TRG	FEEBRIS1D-09.078-079	pCi/g	1.93E-01	2.86E-01	5.47E-01					06/17/15 13:00	1.45E+02	07/22/15 08:27	NO
06	AC-228	TRG	FEEBRIS1D-01.007-009	pCi/g	9.53E-01	2.23E-01	5.75E-01					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	BI-214	TRG	FEEBRIS1D-01.007-009	pCi/g	1.08E+00	1.93E-01	2.83E-01					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	K-40	TRG	FEEBRIS1D-01.007-009	pCi/g	1.33E+01	1.86E+00	1.15E+00					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	PA-231	TRG	FEEBRIS1D-01.007-009	pCi/g	2.04E+00	1.90E+00	2.97E+00					06/22/15 10:07	5.83E+02	07/22/15 08:27	NO
06	PB-210	TRG	FEEBRIS1D-01.007-009	pCi/g	1.77E+00	1.50E+00	2.48E+00					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	PB-212	TRG	FEEBRIS1D-01.007-009	pCi/g	9.61E-01	1.35E-01	2.47E-01					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	PB-214	TRG	FEEBRIS1D-01.007-009	pCi/g	1.18E+00	1.70E-01	2.70E-01					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	RA-226	TRG	FEEBRIS1D-01.007-009	pCi/g	1.08E+00	1.93E-01	2.83E-01					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	RA-228	TRG	FEEBRIS1D-01.007-009	pCi/g	9.53E-01	2.23E-01	5.75E-01					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	TH-234	TRG	FEEBRIS1D-01.007-009	pCi/g	1.05E+00	1.18E+00	1.98E+00					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
06	TL-208	TRG	FEEBRIS1D-01.007-009	pCi/g	7.24E-01	1.46E-01	1.41E-01					06/22/15 10:07	5.83E+02	07/22/15 08:27	YES
07	AC-228	TRG	FEEBRIS1D-01.024-027	pCi/g	4.70E-01	3.21E-01	6.19E-01					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	BI-214	TRG	FEEBRIS1D-01.024-027	pCi/g	1.11E+00	2.69E-01	4.38E-01					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	K-40	TRG	FEEBRIS1D-01.024-027	pCi/g	3.57E+00	1.39E+00	1.56E+00					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	PA-231	TRG	FEEBRIS1D-01.024-027	pCi/g	7.63E-01	2.39E+00	4.18E+00					06/22/15 10:15	5.03E+02	07/22/15 08:27	NO
07	PB-210	TRG	FEEBRIS1D-01.024-027	pCi/g	1.30E+00	9.91E-01	1.64E+00					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	PB-212	TRG	FEEBRIS1D-01.024-027	pCi/g	1.97E-01	2.04E-01	3.39E-01					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	PB-214	TRG	FEEBRIS1D-01.024-027	pCi/g	7.85E-01	2.42E-01	4.14E-01					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	RA-226	TRG	FEEBRIS1D-01.024-027	pCi/g	1.11E+00	2.69E-01	4.38E-01					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	RA-228	TRG	FEEBRIS1D-01.024-027	pCi/g	4.70E-01	3.21E-01	6.19E-01					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	TH-234	TRG	FEEBRIS1D-01.024-027	pCi/g	1.23E+00	1.18E+00	1.96E+00					06/22/15 10:15	5.03E+02	07/22/15 08:27	YES
07	TL-208	TRG	FEEBRIS1D-01.024-027	pCi/g	1.70E-01	2.38E-01	4.18E-01					06/22/15 10:15	5.03E+02	07/22/15 08:27	NO
08	AC-228	TRG	FEEBRIS1D-02.027-030	pCi/g	1.05E+00	3.41E-01	5.84E-01					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES
08	BI-214	TRG	FEEBRIS1D-02.027-030	pCi/g	1.14E+00	2.21E-01	3.35E-01					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES
08	K-40	TRG	FEEBRIS1D-02.027-030	pCi/g	1.23E+01	2.14E+00	1.35E+00					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES
08	PA-231	TRG	FEEBRIS1D-02.027-030	pCi/g	-1.14E+00	2.77E+00	3.31E+00					06/22/15 11:04	2.84E+02	07/22/15 09:29	NO
08	PB-210	TRG	FEEBRIS1D-02.027-030	pCi/g	4.09E+00	2.59E+00	4.13E+00					06/22/15 11:04	2.84E+02	07/22/15 09:29	NO
08	PB-212	TRG	FEEBRIS1D-02.027-030	pCi/g	8.99E-01	1.64E-01	3.54E-01					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES
08	PB-214	TRG	FEEBRIS1D-02.027-030	pCi/g	1.17E+00	1.86E-01	2.63E-01					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES
08	RA-226	TRG	FEEBRIS1D-02.027-030	pCi/g	1.14E+00	2.21E-01	3.35E-01					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES

Work Order: 15-06114-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
08	RA-228	TRG	FEEBRIS1D-02.027-030	pCi/g	1.05E+00	3.41E-01	5.84E-01					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES
08	TH-234	TRG	FEEBRIS1D-02.027-030	pCi/g	1.86E+00	1.16E+00	1.98E+00					06/22/15 11:04	2.84E+02	07/22/15 09:29	NO
08	TL-208	TRG	FEEBRIS1D-02.027-030	pCi/g	6.49E-01	1.87E-01	2.95E-01					06/22/15 11:04	2.84E+02	07/22/15 09:29	YES
09	AC-228	TRG	FEEBRIS1D-02.020-023	pCi/g	1.12E+00	2.90E-01	5.40E-01					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
09	BI-214	TRG	FEEBRIS1D-02.020-023	pCi/g	1.26E+00	1.66E-01	2.99E-01					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
09	K-40	TRG	FEEBRIS1D-02.020-023	pCi/g	1.60E+01	2.07E+00	1.39E+00					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
09	PA-231	TRG	FEEBRIS1D-02.020-023	pCi/g	-1.86E+00	1.59E+00	3.03E+00					06/22/15 11:20	5.55E+02	07/22/15 09:29	NO
09	PB-210	TRG	FEEBRIS1D-02.020-023	pCi/g	2.77E+00	1.61E+00	2.26E+00					06/22/15 11:20	5.55E+02	07/22/15 09:29	NO
09	PB-212	TRG	FEEBRIS1D-02.020-023	pCi/g	1.26E+00	1.63E-01	2.94E-01					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
09	PB-214	TRG	FEEBRIS1D-02.020-023	pCi/g	1.20E+00	1.89E-01	2.77E-01					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
09	RA-226	TRG	FEEBRIS1D-02.020-023	pCi/g	1.26E+00	1.66E-01	2.99E-01					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
09	RA-228	TRG	FEEBRIS1D-02.020-023	pCi/g	1.12E+00	2.90E-01	5.40E-01					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
09	TH-234	TRG	FEEBRIS1D-02.020-023	pCi/g	3.03E-01	1.52E+00	1.94E+00					06/22/15 11:20	5.55E+02	07/22/15 09:29	NO
09	TL-208	TRG	FEEBRIS1D-02.020-023	pCi/g	1.08E+00	1.82E-01	4.56E-02					06/22/15 11:20	5.55E+02	07/22/15 09:29	YES
10	AC-228	TRG	FEEBRIS1D-02.036-037	pCi/g	8.52E-01	4.52E-01	8.56E-01					06/22/15 11:30	5.71E+02	07/22/15 09:29	NO
10	BI-214	TRG	FEEBRIS1D-02.036-037	pCi/g	1.01E+00	2.94E-01	4.54E-01					06/22/15 11:30	5.71E+02	07/22/15 09:29	YES
10	K-40	TRG	FEEBRIS1D-02.036-037	pCi/g	1.74E+01	3.22E+00	2.41E+00					06/22/15 11:30	5.71E+02	07/22/15 09:29	YES
10	PA-231	TRG	FEEBRIS1D-02.036-037	pCi/g	-2.80E-01	3.07E+00	5.17E+00					06/22/15 11:30	5.71E+02	07/22/15 09:29	NO
10	PB-210	TRG	FEEBRIS1D-02.036-037	pCi/g	5.21E-02	9.05E-01	1.38E+00					06/22/15 11:30	5.71E+02	07/22/15 09:29	NO
10	PB-212	TRG	FEEBRIS1D-02.036-037	pCi/g	1.29E+00	2.91E-01	3.90E-01					06/22/15 11:30	5.71E+02	07/22/15 09:29	YES
10	PB-214	TRG	FEEBRIS1D-02.036-037	pCi/g	1.22E+00	2.72E-01	4.31E-01					06/22/15 11:30	5.71E+02	07/22/15 09:29	YES
10	RA-226	TRG	FEEBRIS1D-02.036-037	pCi/g	1.01E+00	2.94E-01	4.54E-01					06/22/15 11:30	5.71E+02	07/22/15 09:29	YES
10	RA-228	TRG	FEEBRIS1D-02.036-037	pCi/g	8.52E-01	4.52E-01	8.56E-01					06/22/15 11:30	5.71E+02	07/22/15 09:29	NO
10	TH-234	TRG	FEEBRIS1D-02.036-037	pCi/g	1.47E+00	1.30E+00	2.05E+00					06/22/15 11:30	5.71E+02	07/22/15 09:29	NO
10	TL-208	TRG	FEEBRIS1D-02.036-037	pCi/g	1.38E+00	4.39E-01	6.16E-01					06/22/15 11:30	5.71E+02	07/22/15 09:29	YES
11	AC-228	TRG	FEEBRIS1D-18.013-014	pCi/g	3.08E-01	1.54E-01	2.66E-01					06/22/15 12:47	3.46E+02	07/22/15 10:29	YES
11	BI-214	TRG	FEEBRIS1D-18.013-014	pCi/g	7.60E-01	1.56E-01	1.97E-01					06/22/15 12:47	3.46E+02	07/22/15 10:29	YES
11	K-40	TRG	FEEBRIS1D-18.013-014	pCi/g	4.69E+00	1.20E+00	1.35E+00					06/22/15 12:47	3.46E+02	07/22/15 10:29	YES
11	PA-231	TRG	FEEBRIS1D-18.013-014	pCi/g	1.10E+00	1.32E+00	2.38E+00					06/22/15 12:47	3.46E+02	07/22/15 10:29	NO
11	PB-210	TRG	FEEBRIS1D-18.013-014	pCi/g	5.44E-01	1.60E+00	2.16E+00					06/22/15 12:47	3.46E+02	07/22/15 10:29	NO
11	PB-212	TRG	FEEBRIS1D-18.013-014	pCi/g	4.06E-01	9.74E-02	2.33E-01					06/22/15 12:47	3.46E+02	07/22/15 10:29	YES
11	PB-214	TRG	FEEBRIS1D-18.013-014	pCi/g	8.56E-01	1.56E-01	2.25E-01					06/22/15 12:47	3.46E+02	07/22/15 10:29	YES
11	RA-226	TRG	FEEBRIS1D-18.013-014	pCi/g	7.60E-01	1.56E-01	1.97E-01					06/22/15 12:47	3.46E+02	07/22/15 10:29	YES
11	RA-228	TRG	FEEBRIS1D-18.013-014	pCi/g	3.08E-01	1.54E-01	2.66E-01					06/22/15 12:47	3.46E+02	07/22/15 10:29	YES
11	TH-234	TRG	FEEBRIS1D-18.013-014	pCi/g	1.76E+00	1.35E+00	1.89E+00					06/22/15 12:47	3.46E+02	07/22/15 10:29	NO
11	TL-208	TRG	FEEBRIS1D-18.013-014	pCi/g	4.61E-01	1.55E-01	3.20E-01					06/22/15 12:47	3.46E+02	07/22/15 10:29	NO
12	AC-228	TRG	FEEBRIS1D-18.038-041	pCi/g	2.63E-01	3.50E-01	6.35E-01					06/22/15 12:56	1.76E+02	07/22/15 10:29	NO
12	BI-214	TRG	FEEBRIS1D-18.038-041	pCi/g	5.23E-01	2.01E-01	5.26E-01					06/22/15 12:56	1.76E+02	07/22/15 10:29	YES

Work Order: 15-06114-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
12	K-40	TRG	FEEBRIS1D-18.038-041	pCi/g	1.93E+00	1.10E+00	1.45E+00					06/22/15 12:56	1.76E+02	07/22/15 10:29	YES
12	PA-231	TRG	FEEBRIS1D-18.038-041	pCi/g	4.14E-01	2.82E+00	3.97E+00					06/22/15 12:56	1.76E+02	07/22/15 10:29	NO
12	PB-210	TRG	FEEBRIS1D-18.038-041	pCi/g	6.93E+00	6.28E+00	1.04E+01					06/22/15 12:56	1.76E+02	07/22/15 10:29	YES
12	PB-212	TRG	FEEBRIS1D-18.038-041	pCi/g	-6.57E-02	2.18E-01	2.66E-01					06/22/15 12:56	1.76E+02	07/22/15 10:29	NO
12	PB-214	TRG	FEEBRIS1D-18.038-041	pCi/g	5.91E-01	2.37E-01	3.98E-01					06/22/15 12:56	1.76E+02	07/22/15 10:29	YES
12	RA-226	TRG	FEEBRIS1D-18.038-041	pCi/g	5.23E-01	2.01E-01	5.26E-01					06/22/15 12:56	1.76E+02	07/22/15 10:29	YES
12	RA-228	TRG	FEEBRIS1D-18.038-041	pCi/g	2.63E-01	3.50E-01	6.35E-01					06/22/15 12:56	1.76E+02	07/22/15 10:29	NO
12	TH-234	TRG	FEEBRIS1D-18.038-041	pCi/g	1.62E+00	1.38E+00	2.41E+00					06/22/15 12:56	1.76E+02	07/22/15 10:29	NO
12	TL-208	TRG	FEEBRIS1D-18.038-041	pCi/g	7.36E-02	2.84E-01	4.63E-01					06/22/15 12:56	1.76E+02	07/22/15 10:29	NO
13	AC-228	TRG	FEEBRIS1D-18.044-046	pCi/g	1.40E+00	2.65E-01	5.17E-01					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	BI-214	TRG	FEEBRIS1D-18.044-046	pCi/g	1.34E+00	1.94E-01	2.24E-01					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	K-40	TRG	FEEBRIS1D-18.044-046	pCi/g	2.17E+01	2.64E+00	1.41E+00					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	PA-231	TRG	FEEBRIS1D-18.044-046	pCi/g	7.17E-02	7.88E-01	3.25E+00					06/22/15 13:04	5.69E+02	07/22/15 10:30	NO
13	PB-210	TRG	FEEBRIS1D-18.044-046	pCi/g	2.50E+00	1.64E+00	2.28E+00					06/22/15 13:04	5.69E+02	07/22/15 10:30	NO
13	PB-212	TRG	FEEBRIS1D-18.044-046	pCi/g	1.34E+00	1.65E-01	3.30E-01					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	PB-214	TRG	FEEBRIS1D-18.044-046	pCi/g	1.36E+00	1.87E-01	2.91E-01					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	RA-226	TRG	FEEBRIS1D-18.044-046	pCi/g	1.34E+00	1.94E-01	2.24E-01					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	RA-228	TRG	FEEBRIS1D-18.044-046	pCi/g	1.40E+00	2.65E-01	5.17E-01					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	TH-234	TRG	FEEBRIS1D-18.044-046	pCi/g	1.64E+00	1.54E+00	2.57E+00					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
13	TL-208	TRG	FEEBRIS1D-18.044-046	pCi/g	9.88E-01	1.97E-01	2.51E-01					06/22/15 13:04	5.69E+02	07/22/15 10:30	YES
14	AC-228	TRG	FEEBRIS1D-17.030-031	pCi/g	3.91E-01	4.05E-01	7.53E-01					06/22/15 14:56	4.58E+02	07/22/15 10:30	NO
14	BI-214	TRG	FEEBRIS1D-17.030-031	pCi/g	3.81E-01	2.06E-01	3.95E-01					06/22/15 14:56	4.58E+02	07/22/15 10:30	NO
14	K-40	TRG	FEEBRIS1D-17.030-031	pCi/g	1.34E+01	2.79E+00	1.82E+00					06/22/15 14:56	4.58E+02	07/22/15 10:30	YES
14	PA-231	TRG	FEEBRIS1D-17.030-031	pCi/g	-3.89E-01	2.21E+00	4.27E+00					06/22/15 14:56	4.58E+02	07/22/15 10:30	NO
14	PB-210	TRG	FEEBRIS1D-17.030-031	pCi/g	7.31E-01	7.58E-01	1.26E+00					06/22/15 14:56	4.58E+02	07/22/15 10:30	YES
14	PB-212	TRG	FEEBRIS1D-17.030-031	pCi/g	4.10E-01	1.99E-01	3.09E-01					06/22/15 14:56	4.58E+02	07/22/15 10:30	YES
14	PB-214	TRG	FEEBRIS1D-17.030-031	pCi/g	4.90E-01	2.05E-01	3.40E-01					06/22/15 14:56	4.58E+02	07/22/15 10:30	YES
14	RA-226	TRG	FEEBRIS1D-17.030-031	pCi/g	3.81E-01	2.06E-01	3.95E-01					06/22/15 14:56	4.58E+02	07/22/15 10:30	NO
14	RA-228	TRG	FEEBRIS1D-17.030-031	pCi/g	3.91E-01	4.05E-01	7.53E-01					06/22/15 14:56	4.58E+02	07/22/15 10:30	NO
14	TH-234	TRG	FEEBRIS1D-17.030-031	pCi/g	1.85E+00	1.51E+00	2.50E+00					06/22/15 14:56	4.58E+02	07/22/15 10:30	YES
14	TL-208	TRG	FEEBRIS1D-17.030-031	pCi/g	3.85E-01	2.08E-01	2.41E-01					06/22/15 14:56	4.58E+02	07/22/15 10:30	YES
15	AC-228	TRG	FEEBRIS1D-17.033-036	pCi/g	4.07E-01	3.61E-01	6.96E-01					06/22/15 15:03	4.74E+02	07/22/15 13:44	NO
15	BI-214	TRG	FEEBRIS1D-17.033-036	pCi/g	7.49E-01	2.56E-01	1.89E-01					06/22/15 15:03	4.74E+02	07/22/15 13:44	YES
15	K-40	TRG	FEEBRIS1D-17.033-036	pCi/g	1.45E+01	2.83E+00	1.34E+00					06/22/15 15:03	4.74E+02	07/22/15 13:44	YES
15	PA-231	TRG	FEEBRIS1D-17.033-036	pCi/g	-1.19E+00	3.11E+00	4.64E+00					06/22/15 15:03	4.74E+02	07/22/15 13:44	NO
15	PB-210	TRG	FEEBRIS1D-17.033-036	pCi/g	1.20E+00	1.21E+00	2.03E+00					06/22/15 15:03	4.74E+02	07/22/15 13:44	YES
15	PB-212	TRG	FEEBRIS1D-17.033-036	pCi/g	5.44E-01	1.88E-01	3.25E-01					06/22/15 15:03	4.74E+02	07/22/15 13:44	NO
15	PB-214	TRG	FEEBRIS1D-17.033-036	pCi/g	6.61E-01	2.56E-01	3.66E-01					06/22/15 15:03	4.74E+02	07/22/15 13:44	YES

Work Order: 15-06114-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
15	RA-226	TRG	FEEBRIS1D-17.033-036	pCi/g	7.49E-01	2.56E-01	1.89E-01					06/22/15 15:03	4.74E+02	07/22/15 13:44	YES
15	RA-228	TRG	FEEBRIS1D-17.033-036	pCi/g	4.07E-01	3.61E-01	6.96E-01					06/22/15 15:03	4.74E+02	07/22/15 13:44	NO
15	TH-234	TRG	FEEBRIS1D-17.033-036	pCi/g	2.24E+00	1.15E+00	1.90E+00					06/22/15 15:03	4.74E+02	07/22/15 13:44	NO
15	TL-208	TRG	FEEBRIS1D-17.033-036	pCi/g	4.46E-01	3.16E-01	5.77E-01					06/22/15 15:03	4.74E+02	07/22/15 13:44	NO
16	AC-228	TRG	FEEBRIS1D-13.093-094	pCi/g	4.28E-01	1.52E-01	4.10E-01					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	BI-214	TRG	FEEBRIS1D-13.093-094	pCi/g	4.22E+00	2.96E-01	2.76E-01					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	K-40	TRG	FEEBRIS1D-13.093-094	pCi/g	4.40E+00	9.87E-01	1.12E+00					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	PA-231	TRG	FEEBRIS1D-13.093-094	pCi/g	-1.36E-01	1.73E+00	2.25E+00					06/12/15 14:15	6.84E+02	07/22/15 14:46	NO
16	PB-210	TRG	FEEBRIS1D-13.093-094	pCi/g	4.10E+00	2.22E+00	3.57E+00					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	PB-212	TRG	FEEBRIS1D-13.093-094	pCi/g	2.20E-01	8.25E-02	1.70E-01					06/12/15 14:15	6.84E+02	07/22/15 14:46	NO
16	PB-214	TRG	FEEBRIS1D-13.093-094	pCi/g	4.34E+00	3.42E-01	2.08E-01					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	RA-226	TRG	FEEBRIS1D-13.093-094	pCi/g	4.22E+00	2.96E-01	2.76E-01					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	RA-228	TRG	FEEBRIS1D-13.093-094	pCi/g	4.28E-01	1.52E-01	4.10E-01					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	TH-234	TRG	FEEBRIS1D-13.093-094	pCi/g	1.57E+00	1.70E+00	2.84E+00					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
16	TL-208	TRG	FEEBRIS1D-13.093-094	pCi/g	2.71E-01	9.10E-02	1.35E-01					06/12/15 14:15	6.84E+02	07/22/15 14:46	YES
17	AC-228	TRG	FEEBRIS1D-13.085-086	pCi/g	1.11E+00	2.43E-01	5.23E-01					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	BI-214	TRG	FEEBRIS1D-13.085-086	pCi/g	1.17E+00	1.82E-01	2.83E-01					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	K-40	TRG	FEEBRIS1D-13.085-086	pCi/g	1.85E+01	2.22E+00	1.56E+00					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	PA-231	TRG	FEEBRIS1D-13.085-086	pCi/g	5.86E-02	7.57E-01	2.89E+00					06/12/15 14:32	6.13E+02	07/22/15 14:46	NO
17	PB-210	TRG	FEEBRIS1D-13.085-086	pCi/g	7.68E-01	1.54E+00	2.03E+00					06/12/15 14:32	6.13E+02	07/22/15 14:46	NO
17	PB-212	TRG	FEEBRIS1D-13.085-086	pCi/g	1.27E+00	1.51E-01	3.13E-01					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	PB-214	TRG	FEEBRIS1D-13.085-086	pCi/g	1.20E+00	1.84E-01	2.94E-01					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	RA-226	TRG	FEEBRIS1D-13.085-086	pCi/g	1.17E+00	1.82E-01	2.83E-01					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	RA-228	TRG	FEEBRIS1D-13.085-086	pCi/g	1.11E+00	2.43E-01	5.23E-01					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	TH-234	TRG	FEEBRIS1D-13.085-086	pCi/g	1.74E+00	1.73E+00	2.88E+00					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
17	TL-208	TRG	FEEBRIS1D-13.085-086	pCi/g	1.07E+00	1.82E-01	2.03E-01					06/12/15 14:32	6.13E+02	07/22/15 14:46	YES
18	AC-228	TRG	FEEBRIS1D-14.082-084	pCi/g	8.66E-01	3.13E-01	1.03E+00					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
18	BI-214	TRG	FEEBRIS1D-14.082-084	pCi/g	1.31E+00	2.58E-01	1.41E-01					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
18	K-40	TRG	FEEBRIS1D-14.082-084	pCi/g	1.43E+01	2.74E+00	2.11E+00					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
18	PA-231	TRG	FEEBRIS1D-14.082-084	pCi/g	-1.24E-01	1.83E+00	4.65E+00					06/12/15 14:51	6.34E+02	07/22/15 14:46	NO
18	PB-210	TRG	FEEBRIS1D-14.082-084	pCi/g	4.13E-01	7.93E-01	1.23E+00					06/12/15 14:51	6.34E+02	07/22/15 14:46	NO
18	PB-212	TRG	FEEBRIS1D-14.082-084	pCi/g	1.28E+00	2.88E-01	3.89E-01					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
18	PB-214	TRG	FEEBRIS1D-14.082-084	pCi/g	1.46E+00	2.78E-01	3.90E-01					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
18	RA-226	TRG	FEEBRIS1D-14.082-084	pCi/g	1.31E+00	2.58E-01	1.41E-01					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
18	RA-228	TRG	FEEBRIS1D-14.082-084	pCi/g	8.66E-01	3.13E-01	1.03E+00					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
18	TH-234	TRG	FEEBRIS1D-14.082-084	pCi/g	1.96E+00	1.20E+00	1.90E+00					06/12/15 14:51	6.34E+02	07/22/15 14:46	NO
18	TL-208	TRG	FEEBRIS1D-14.082-084	pCi/g	9.32E-01	4.46E-01	6.84E-01					06/12/15 14:51	6.34E+02	07/22/15 14:46	YES
19	AC-228	TRG	FEEBRIS1D-14.054-056	pCi/g	1.43E-01	5.13E-01	8.49E-01					06/12/15 14:58	1.33E+02	07/22/15 13:44	NO

Work Order: 15-06114-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
19	BI-214	TRG	FEEBRIS1D-14.054-056	pCi/g	4.03E-01	2.96E-01	5.35E-01					06/12/15 14:58	1.33E+02	07/22/15 13:44	NO
19	K-40	TRG	FEEBRIS1D-14.054-056	pCi/g	2.17E+00	1.22E+00	1.50E+00					06/12/15 14:58	1.33E+02	07/22/15 13:44	YES
19	PA-231	TRG	FEEBRIS1D-14.054-056	pCi/g	2.09E+00	3.73E+00	5.62E+00					06/12/15 14:58	1.33E+02	07/22/15 13:44	NO
19	PB-210	TRG	FEEBRIS1D-14.054-056	pCi/g	8.73E+00	4.79E+00	7.90E+00					06/12/15 14:58	1.33E+02	07/22/15 13:44	NO
19	PB-212	TRG	FEEBRIS1D-14.054-056	pCi/g	2.15E-01	1.66E-01	4.42E-01					06/12/15 14:58	1.33E+02	07/22/15 13:44	YES
19	PB-214	TRG	FEEBRIS1D-14.054-056	pCi/g	4.33E-01	2.94E-01	5.69E-01					06/12/15 14:58	1.33E+02	07/22/15 13:44	YES
19	RA-226	TRG	FEEBRIS1D-14.054-056	pCi/g	4.03E-01	2.96E-01	5.35E-01					06/12/15 14:58	1.33E+02	07/22/15 13:44	NO
19	RA-228	TRG	FEEBRIS1D-14.054-056	pCi/g	1.43E-01	5.13E-01	8.49E-01					06/12/15 14:58	1.33E+02	07/22/15 13:44	NO
19	TH-234	TRG	FEEBRIS1D-14.054-056	pCi/g	2.57E+00	1.62E+00	2.97E+00					06/12/15 14:58	1.33E+02	07/22/15 13:44	NO
19	TL-208	TRG	FEEBRIS1D-14.054-056	pCi/g	3.47E-01	2.35E-01	4.42E-01					06/12/15 14:58	1.33E+02	07/22/15 13:44	YES
20	AC-228	TRG	FEEBRIS1D-09.088-089	pCi/g	1.10E+00	4.96E-01	1.03E+00					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	BI-214	TRG	FEEBRIS1D-09.088-089	pCi/g	1.70E+01	1.14E+00	4.99E-01					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	K-40	TRG	FEEBRIS1D-09.088-089	pCi/g	6.57E+00	2.36E+00	3.37E+00					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	PA-231	TRG	FEEBRIS1D-09.088-089	pCi/g	1.39E+01	6.06E+00	9.50E+00					06/11/15 08:55	3.32E+02	07/22/15 13:44	NO
20	PB-210	TRG	FEEBRIS1D-09.088-089	pCi/g	3.02E+01	7.09E+00	1.03E+01					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	PB-212	TRG	FEEBRIS1D-09.088-089	pCi/g	7.28E-01	3.34E-01	8.67E-01					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	PB-214	TRG	FEEBRIS1D-09.088-089	pCi/g	1.86E+01	1.19E+00	8.20E-01					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	RA-226	TRG	FEEBRIS1D-09.088-089	pCi/g	1.70E+01	1.14E+00	4.99E-01					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	RA-228	TRG	FEEBRIS1D-09.088-089	pCi/g	1.10E+00	4.96E-01	1.03E+00					06/11/15 08:55	3.32E+02	07/22/15 13:44	YES
20	TH-234	TRG	FEEBRIS1D-09.088-089	pCi/g	3.53E+00	2.87E+00	5.61E+00					06/11/15 08:55	3.32E+02	07/22/15 13:44	NO
20	TL-208	TRG	FEEBRIS1D-09.088-089	pCi/g	5.09E-01	4.88E-01	6.33E-01					06/11/15 08:55	3.32E+02	07/22/15 13:44	NO

Count Room Report
Client: AMO Environmental Decisio

15-06114-Gamma-1 (pCi/g) in SO
Tracer ID:

Printed: 7/1/2015 9:46 AM

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/29/15 00:00	1.0000				0.00		
02	MBL	BLANK	06/29/15 00:00	1.0000				0.00		
03	DUP	FEEBRIS1D-09.099-100	06/17/15 13:14	744.1100				0.00		
04	DO	FEEBRIS1D-09.099-100	06/17/15 13:14	744.1100				0.00		
05	TRG	FEEBRIS1D-09.078-079	06/17/15 13:00	145.1300				0.00		
06	TRG	FEEBRIS1D-01.007-009	06/22/15 10:07	582.6100				0.00		
07	TRG	FEEBRIS1D-01.024-027	06/22/15 10:15	503.4300				0.00		
08	TRG	FEEBRIS1D-02.027-030	06/22/15 11:04	284.0800				0.00		
09	TRG	FEEBRIS1D-02.020-023	06/22/15 11:20	554.8400				0.00		
10	TRG	FEEBRIS1D-02.036-037	06/22/15 11:30	570.9900				0.00		
11	TRG	FEEBRIS1D-18.013-014	06/22/15 12:47	346.1600				0.00		
12	TRG	FEEBRIS1D-18.038-041	06/22/15 12:56	175.7600				0.00		
13	TRG	FEEBRIS1D-18.044-046	06/22/15 13:04	569.2500				0.00		
14	TRG	FEEBRIS1D-17.030-031	06/22/15 14:56	458.1200				0.00		
15	TRG	FEEBRIS1D-17.033-036	06/22/15 15:03	473.9300				0.00		
16	TRG	FEEBRIS1D-13.093-094	06/12/15 14:15	683.5600				0.00		
17	TRG	FEEBRIS1D-13.085-086	06/12/15 14:32	613.2700				0.00		
18	TRG	FEEBRIS1D-14.082-084	06/12/15 14:51	633.6600				0.00		
19	TRG	FEEBRIS1D-14.054-056	06/12/15 14:58	133.4300				0.00		
20	TRG	FEEBRIS1D-09.088-089	06/11/15 08:55	331.6300				0.00		

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CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00376

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/1/2015 9:46 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06114	1	Gamma	grams	7/21/2015	KSALLINGS

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data	Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
			Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-09.099-100	DUP					7.4411E+02	7.4411E+02				
04	FEEBRIS1D-09.099-100	DO					7.4411E+02	7.4411E+02				
05	FEEBRIS1D-09.078-079	TRG					1.4513E+02	1.4513E+02				
06	FEEBRIS1D-01.007-009	TRG					5.8261E+02	5.8261E+02				
07	FEEBRIS1D-01.024-027	TRG					5.0343E+02	5.0343E+02				
08	FEEBRIS1D-02.027-030	TRG					2.8408E+02	2.8408E+02				
09	FEEBRIS1D-02.020-023	TRG					5.5484E+02	5.5484E+02				
10	FEEBRIS1D-02.036-037	TRG					5.7099E+02	5.7099E+02				
11	FEEBRIS1D-18.013-014	TRG					3.4616E+02	3.4616E+02				
12	FEEBRIS1D-18.038-041	TRG					1.7576E+02	1.7576E+02				
13	FEEBRIS1D-18.044-046	TRG					5.6925E+02	5.6925E+02				
14	FEEBRIS1D-17.030-031	TRG					4.5812E+02	4.5812E+02				
15	FEEBRIS1D-17.033-036	TRG					4.7393E+02	4.7393E+02				
16	FEEBRIS1D-13.093-094	TRG					6.8356E+02	6.8356E+02				
17	FEEBRIS1D-13.085-086	TRG					6.1327E+02	6.1327E+02				
18	FEEBRIS1D-14.082-084	TRG					6.3366E+02	6.3366E+02				
19	FEEBRIS1D-14.054-056	TRG					1.3343E+02	1.3343E+02				
20	FEEBRIS1D-09.088-089	TRG					3.3163E+02	3.3163E+02				

Comments	

Technician: Kenny Sallings Date: 7/1/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/1/2015 7:40 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06114	7/21/2015	6/30/2015	7/1/2015	7/2/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-09.099-100	14.6600	990.3400	828.9400	975.6800	814.2800	16.54%	83.46%	0.0000	0.0000	
05	FEEBRIS1D-09.078-079	29.1700	1004.4800	638.9900	975.3100	609.8200	37.47%	62.53%	0.0000	0.0000	
06	FEEBRIS1D-01.007-009	14.5600	1034.2600	885.2800	1019.7000	870.7200	14.61%	85.39%	0.0000	0.0000	
07	FEEBRIS1D-01.024-027	29.2800	1309.7200	1145.4400	1280.4400	1116.1600	12.83%	87.17%	0.0000	0.0000	
08	FEEBRIS1D-02.027-030	29.1500	1152.4200	752.3900	1123.2700	723.2400	35.61%	64.39%	0.0000	0.0000	
09	FEEBRIS1D-02.020-023	14.5900	1088.3800	886.5800	1073.7900	871.9900	18.79%	81.21%	0.0000	0.0000	
10	FEEBRIS1D-02.036-037	14.5900	1156.8000	911.6000	1142.2100	897.0100	21.47%	78.53%	0.0000	0.0000	
11	FEEBRIS1D-18.013-014	43.6400	1535.5000	1248.2800	1491.8600	1204.6400	19.25%	80.75%	0.0000	0.0000	
12	FEEBRIS1D-18.038-041	29.2000	1081.7200	614.8200	1052.5200	585.6200	44.36%	55.64%	0.0000	0.0000	
13	FEEBRIS1D-18.044-046	28.9300	1529.9800	1252.6200	1501.0500	1223.6900	18.48%	81.52%	0.0000	0.0000	
14	FEEBRIS1D-17.030-031	28.8500	1325.7200	945.0200	1296.8700	916.1700	29.36%	70.64%	0.0000	0.0000	
15	FEEBRIS1D-17.033-036	28.8600	1329.3400	1008.8000	1300.4800	979.9400	24.65%	75.35%	0.0000	0.0000	
16	FEEBRIS1D-13.093-094	28.8100	1311.9000	1129.2200	1283.0900	1100.4100	14.24%	85.76%	0.0000	0.0000	
17	FEEBRIS1D-13.085-086	28.8900	1816.0000	1573.8600	1787.1100	1544.9700	13.55%	86.45%	0.0000	0.0000	
18	FEEBRIS1D-14.082-084	28.8300	1674.0500	1494.0600	1645.2200	1465.2300	10.94%	89.06%	0.0000	0.0000	
19	FEEBRIS1D-14.054-056	43.4300	1332.9000	860.9000	1289.4700	817.4700	36.60%	63.40%	0.0000	0.0000	
20	FEEBRIS1D-09.088-089	28.7700	1476.6200	1196.4600	1447.8500	1167.6900	19.35%	80.65%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

Technician: Kerry Sallings Date: **Analysis: Rough Prep Logbook**

Apex-Gamma

Analysis Report for 1506114-01

GAS-1302

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 5:13:02AM
Acquisition Started	: 7/21/2015 7:13:38AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1822.1 seconds
Dead Time	: 1.21 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24886

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

Analysis Report for 1506114-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 7/21/2015 7:44:04AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	22.09	22.21	0.0000	0.00
2	24.67	24.79	0.0000	0.00
3	32.42	32.54	0.0000	0.00
4	50.36	50.46	0.0000	0.00
5	59.65	59.75	0.0000	0.00
6	67.50	67.59	0.0000	0.00
7	85.13	85.21	0.0000	0.00
8	88.17	88.25	0.0000	0.00
9	122.16	122.22	0.0000	0.00
10	130.52	130.58	0.0000	0.00
11	136.47	136.52	0.0000	0.00
12	165.92	165.95	0.0000	0.00
13	238.78	238.77	0.0000	0.00
14	391.70	391.62	0.0000	0.00
15	402.62	402.53	0.0000	0.00
16	510.43	510.29	0.0000	0.00
17	567.58	567.41	0.0000	0.00
18	661.79	661.58	0.0000	0.00
19	809.74	809.46	0.0000	0.00
20	820.30	820.01	0.0000	0.00
21	898.10	897.78	0.0000	0.00
22	1111.06	1110.65	0.0000	0.00
23	1173.48	1173.06	0.0000	0.00
24	1300.10	1299.63	0.0000	0.00
25	1332.77	1332.28	0.0000	0.00
26	1499.25	1498.72	0.0000	0.00
27	1600.82	1600.26	0.0000	0.00
28	1649.60	1649.02	0.0000	0.00
29	1713.43	1712.84	0.0000	0.00
30	1749.53	1748.93	0.0000	0.00
31	1763.93	1763.33	0.0000	0.00
32	1836.28	1835.65	0.0000	0.00
33	1931.18	1930.53	0.0000	0.00
34	2102.46	2101.79	0.0000	0.00
35	2304.00	2303.29	0.0000	0.00
36	2318.04	2317.33	0.0000	0.00
37	2329.87	2329.16	0.0000	0.00
38	2505.62	2504.88	0.0000	0.00
39	2614.53	2613.79	0.0000	0.00

Analysis Report for 1506114-01

GAS-1302

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 7:44:04AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	22.09	19 -	28	22.21	1.15E+05	748.80	1.41E+04	1.21
m	2	24.67	19 -	28	24.79	3.35E+04	608.24	7.99E+03	1.21
	3	32.42	30 -	35	32.54	2.39E+03	253.73	1.11E+04	1.86
M	4	50.36	46 -	62	50.46	4.71E+03	312.67	1.62E+04	1.46
m	5	59.65	46 -	62	59.75	8.87E+04	645.41	1.35E+04	1.46
	6	67.50	66 -	72	67.59	7.48E+02	404.66	2.94E+04	2.75
M	7	85.13	83 -	92	85.21	5.74E+02	256.61	1.74E+04	1.21
m	8	88.17	83 -	92	88.25	4.52E+04	483.86	1.32E+04	1.33
	9	122.16	118 -	126	122.22	1.08E+04	394.82	1.72E+04	1.41
	10	130.52	129 -	132	130.58	1.49E+02	167.22	6.80E+03	1.76
	11	136.47	133 -	140	136.52	1.46E+03	290.14	1.30E+04	1.82
	12	165.92	163 -	168	165.95	2.22E+03	228.84	8.67E+03	1.29
	13	238.78	237 -	241	238.77	2.67E+02	182.08	7.14E+03	2.04
	14	391.70	388 -	395	391.62	8.09E+02	221.52	7.63E+03	1.65
	15	402.62	400 -	405	402.53	2.04E+02	168.34	5.49E+03	3.56
	16	510.43	507 -	514	510.29	2.04E+02	182.79	5.40E+03	1.97
	17	567.58	565 -	570	567.41	1.47E+02	131.63	3.34E+03	5.85
	18	661.79	656 -	667	661.58	3.05E+04	411.51	5.91E+03	2.00
	19	809.74	806 -	813	809.46	1.70E+02	152.46	3.75E+03	4.04
	20	820.30	815 -	825	820.01	3.96E+02	199.21	5.09E+03	8.82
	21	898.10	894 -	902	897.78	7.11E+02	196.14	5.49E+03	1.84
	22	1111.06	1107 -	1114	1110.65	1.35E+02	145.42	3.45E+03	3.29
	23	1173.48	1167 -	1178	1173.06	2.85E+04	367.77	2.68E+03	2.05
	24	1300.10	1297 -	1302	1299.63	4.25E+01	39.79	2.79E+02	3.58
	25	1332.77	1326 -	1338	1332.28	2.58E+04	330.45	6.95E+02	2.26
	26	1499.25	1496 -	1502	1498.72	2.31E+01	28.24	1.26E+02	3.16
	27	1600.82	1597 -	1604	1600.26	2.55E+01	29.46	1.27E+02	3.11
	28	1649.60	1640 -	1657	1649.02	8.33E+01	44.82	1.49E+02	10.02
	29	1713.43	1707 -	1719	1712.84	3.77E+01	39.09	1.61E+02	6.43
	30	1749.53	1741 -	1758	1748.93	4.47E+01	44.16	1.57E+02	13.56
	31	1763.93	1759 -	1768	1763.33	3.51E+01	31.95	1.28E+02	3.87
	32	1836.28	1831 -	1842	1835.65	4.64E+02	51.30	1.01E+02	2.76
	33	1931.18	1925 -	1937	1930.53	2.50E+01	27.62	7.80E+01	8.68
	34	2102.46	2097 -	2106	2101.79	3.18E+01	21.86	5.03E+01	6.24
	35	2304.00	2295 -	2313	2303.29	4.31E+01	30.46	6.18E+01	13.81
	36	2318.04	2314 -	2321	2317.33	1.45E+01	15.10	2.89E+01	1.20
	37	2329.87	2322 -	2335	2329.16	2.55E+01	23.22	4.70E+01	3.48
	38	2505.62	2500 -	2509	2504.88	3.03E+02	34.81	0.00E+00	2.75
	39	2614.53	2609 -	2618	2613.79	2.77E+01	12.04	4.70E+00	2.46

Analysis Report for 1506114-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 7:44:04AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	22.09	19 -	28	1.15E+05	748.80	1.41E+04	1.95E+02
m	2	24.67	19 -	28	3.35E+04	608.24	7.99E+03	1.47E+02
	3	32.42	30 -	35	2.39E+03	253.73	1.11E+04	1.92E+02
M	4	50.36	46 -	62	4.71E+03	312.67	1.62E+04	2.09E+02
m	5	59.65	46 -	62	8.87E+04	645.41	1.35E+04	1.91E+02
	6	67.50	66 -	72	7.48E+02	404.66	2.94E+04	3.30E+02
M	7	85.13	83 -	92	5.74E+02	256.61	1.74E+04	2.17E+02
m	8	88.17	83 -	92	4.52E+04	483.86	1.32E+04	1.89E+02
	9	122.16	118 -	126	1.08E+04	394.82	1.72E+04	2.76E+02
	10	130.52	129 -	132	1.49E+02	167.22	6.80E+03	1.36E+02
	11	136.47	133 -	140	1.46E+03	290.14	1.30E+04	2.30E+02
	12	165.92	163 -	168	2.22E+03	228.84	8.67E+03	1.71E+02
	13	238.78	237 -	241	2.67E+02	182.08	7.14E+03	1.47E+02
	14	391.70	388 -	395	8.09E+02	221.52	7.63E+03	1.76E+02
	15	402.62	400 -	405	2.04E+02	168.34	5.49E+03	1.36E+02
	16	510.43	507 -	514	2.04E+02	182.79	5.40E+03	1.48E+02
	17	567.58	565 -	570	1.47E+02	131.63	3.34E+03	1.06E+02
	18	661.79	656 -	667	3.05E+04	411.51	5.91E+03	1.79E+02
	19	809.74	806 -	813	1.70E+02	152.46	3.75E+03	1.23E+02
	20	820.30	815 -	825	3.96E+02	199.21	5.09E+03	1.60E+02
	21	898.10	894 -	902	7.11E+02	196.14	5.49E+03	1.55E+02
	22	1111.06	1107 -	1114	1.35E+02	145.42	3.45E+03	1.18E+02
	23	1173.48	1167 -	1178	2.85E+04	367.77	2.68E+03	1.20E+02
	24	1300.10	1297 -	1302	4.25E+01	39.79	2.79E+02	3.09E+01
	25	1332.77	1326 -	1338	2.58E+04	330.45	6.95E+02	6.34E+01
	26	1499.25	1496 -	1502	2.31E+01	28.24	1.26E+02	2.18E+01
	27	1600.82	1597 -	1604	2.55E+01	29.46	1.27E+02	2.28E+01
	28	1649.60	1640 -	1657	8.33E+01	44.82	1.49E+02	3.37E+01
	29	1713.43	1707 -	1719	3.77E+01	39.09	1.61E+02	3.05E+01
	30	1749.53	1741 -	1758	4.47E+01	44.16	1.57E+02	3.46E+01
	31	1763.93	1759 -	1768	3.51E+01	31.95	1.28E+02	2.44E+01

Analysis Report for 1506114-01

GAS-1302

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1836.28	1831 -	1842	4.64E+02	51.30	1.01E+02	2.29E+01
33	1931.18	1925 -	1937	2.50E+01	27.62	7.80E+01	2.12E+01
34	2102.46	2097 -	2106	3.18E+01	21.86	5.03E+01	1.54E+01
35	2304.00	2295 -	2313	4.31E+01	30.46	6.18E+01	2.26E+01
36	2318.04	2314 -	2321	1.45E+01	15.10	2.89E+01	1.07E+01
37	2329.87	2322 -	2335	2.55E+01	23.22	4.70E+01	1.72E+01
38	2505.62	2500 -	2509	3.03E+02	34.81	0.00E+00	0.00E+00
39	2614.53	2609 -	2618	2.77E+01	12.04	4.70E+00	4.82E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/21/2015 7:44:04AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	22.09	19 -	28	22.21	1.15E+05	748.80	1.41E+04	.....
m	2	24.67	19 -	28	24.79	3.35E+04	608.24	7.99E+03	TH-231
	3	32.42	30 -	35	32.54	2.39E+03	253.73	1.11E+04	.....
M	4	50.36	46 -	62	50.46	4.71E+03	312.67	1.62E+04	TH-227
									TE-132
m	5	59.65	46 -	62	59.75	8.87E+04	645.41	1.35E+04	AM-241
	6	67.50	66 -	72	67.59	7.48E+02	404.66	2.94E+04	TH-230
									TA-182
									TI-44
									TM-171
M	7	85.13	83 -	92	85.21	5.74E+02	256.61	1.74E+04	TH-231
m	8	88.17	83 -	92	88.25	4.52E+04	483.86	1.32E+04	CD-109
									LU-176
									SN-126
	9	122.16	118 -	126	122.22	1.08E+04	394.82	1.72E+04	CO-57
									EU-152
									EU-154
	10	130.52	129 -	132	130.58	1.49E+02	167.22	6.80E+03	PA-234

Analysis Report for 1506114-01

GAS-1302

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
11	136.47	133 -	140	136.52	1.46E+03	290.14	1.30E+04	CO-57 SE-75
12	165.92	163 -	168	165.95	2.22E+03	228.84	8.67E+03	CE-139
13	238.78	237 -	241	238.77	2.67E+02	182.08	7.14E+03	PB-212
14	391.70	388 -	395	391.62	8.09E+02	221.52	7.63E+03	SN-113
15	402.62	400 -	405	402.53	2.04E+02	168.34	5.49E+03	RN-219
16	510.43	507 -	514	510.29	2.04E+02	182.79	5.40E+03	.....
17	567.58	565 -	570	567.41	1.47E+02	131.63	3.34E+03	.....
18	661.79	656 -	667	661.58	3.05E+04	411.51	5.91E+03	CS-137
19	809.74	806 -	813	809.46	1.70E+02	152.46	3.75E+03	LU-172
20	820.30	815 -	825	820.01	3.96E+02	199.21	5.09E+03	.....
21	898.10	894 -	902	897.78	7.11E+02	196.14	5.49E+03	Y-88
22	1111.06	1107 -	1114	1110.65	1.35E+02	145.42	3.45E+03	EU-152
23	1173.48	1167 -	1178	1173.06	2.85E+04	367.77	2.68E+03	CO-60
24	1300.10	1297 -	1302	1299.63	4.25E+01	39.79	2.79E+02	.....
25	1332.77	1326 -	1338	1332.28	2.58E+04	330.45	6.95E+02	CO-60
26	1499.25	1496 -	1502	1498.72	2.31E+01	28.24	1.26E+02	.....
27	1600.82	1597 -	1604	1600.26	2.55E+01	29.46	1.27E+02	.....
28	1649.60	1640 -	1657	1649.02	8.33E+01	44.82	1.49E+02	.....
29	1713.43	1707 -	1719	1712.84	3.77E+01	39.09	1.61E+02	.....
30	1749.53	1741 -	1758	1748.93	4.47E+01	44.16	1.57E+02	.....
31	1763.93	1759 -	1768	1763.33	3.51E+01	31.95	1.28E+02	BI-214
32	1836.28	1831 -	1842	1835.65	4.64E+02	51.30	1.01E+02	Y-88
33	1931.18	1925 -	1937	1930.53	2.50E+01	27.62	7.80E+01	.....
34	2102.46	2097 -	2106	2101.79	3.18E+01	21.86	5.03E+01	.....
35	2304.00	2295 -	2313	2303.29	4.31E+01	30.46	6.18E+01	.....
36	2318.04	2314 -	2321	2317.33	1.45E+01	15.10	2.89E+01	.....
37	2329.87	2322 -	2335	2329.16	2.55E+01	23.22	4.70E+01	.....
38	2505.62	2500 -	2509	2504.88	3.03E+02	34.81	0.00E+00	.....
39	2614.53	2609 -	2618	2613.79	2.77E+01	12.04	4.70E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/21/2015 7:44:04AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty

Analysis Report for 1506114-01

GAS-1302

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	22.09	1.15E+05	748.80	1.28E-04	1.68E-03
m	2	24.67	3.35E+04	608.24	3.90E-04	1.68E-03
	3	32.42	2.39E+03	253.73	2.98E-03	1.68E-03
M	4	50.36	4.71E+03	312.67	1.63E-02	1.68E-03
m	5	59.65	8.87E+04	645.41	2.21E-02	1.69E-03
	6	67.50	7.48E+02	404.66	2.53E-02	2.47E-03
M	7	85.13	5.74E+02	256.61	2.83E-02	4.22E-03
m	8	88.17	4.52E+04	483.86	2.84E-02	4.50E-03
	9	122.16	1.08E+04	394.82	2.67E-02	2.99E-03
	10	130.52	1.49E+02	167.22	2.59E-02	2.73E-03
	11	136.47	1.46E+03	290.14	2.53E-02	2.56E-03
	12	165.92	2.22E+03	228.84	2.27E-02	1.67E-03
	13	238.78	2.67E+02	182.08	1.79E-02	1.60E-03
	14	391.70	8.09E+02	221.52	1.27E-02	1.02E-03
	15	402.62	2.04E+02	168.34	1.25E-02	1.01E-03
	16	510.43	2.04E+02	182.79	1.06E-02	8.99E-04
	17	567.58	1.47E+02	131.63	9.78E-03	8.41E-04
	18	661.79	3.05E+04	411.51	8.70E-03	7.45E-04
	19	809.74	1.70E+02	152.46	7.42E-03	6.50E-04
	20	820.30	3.96E+02	199.21	7.35E-03	6.43E-04
	21	898.10	7.11E+02	196.14	6.83E-03	5.93E-04
	22	1111.06	1.35E+02	145.42	5.74E-03	4.85E-04
	23	1173.48	2.85E+04	367.77	5.50E-03	4.53E-04
	24	1300.10	4.25E+01	39.79	5.08E-03	5.11E-04
	25	1332.77	2.58E+04	330.45	4.99E-03	5.26E-04
	26	1499.25	2.31E+01	28.24	4.59E-03	4.57E-04
	27	1600.82	2.55E+01	29.46	4.41E-03	4.15E-04
	28	1649.60	8.33E+01	44.82	4.33E-03	3.95E-04
	29	1713.43	3.77E+01	39.09	4.25E-03	3.69E-04
	30	1749.53	4.47E+01	44.16	4.20E-03	3.54E-04
	31	1763.93	3.51E+01	31.95	4.19E-03	3.48E-04
	32	1836.28	4.64E+02	51.30	4.11E-03	3.18E-04
	33	1931.18	2.50E+01	27.62	4.04E-03	3.18E-04
	34	2102.46	3.18E+01	21.86	3.95E-03	3.18E-04
	35	2304.00	4.31E+01	30.46	3.93E-03	3.18E-04
	36	2318.04	1.45E+01	15.10	3.93E-03	3.18E-04
	37	2329.87	2.55E+01	23.22	3.93E-03	3.18E-04
	38	2505.62	3.03E+02	34.81	3.99E-03	3.18E-04
	39	2614.53	2.77E+01	12.04	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/21/2015 7:44:04AM

Analysis Report for 1506114-01

GAS-1302

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	22.09	1.15E+05	748.80			1.15E+05	7.49E+02
m	2	24.67	3.35E+04	608.24			3.35E+04	6.08E+02
	3	32.42	2.39E+03	253.73			2.39E+03	2.54E+02
M	4	50.36	4.71E+03	312.67			4.71E+03	3.13E+02
m	5	59.65	8.87E+04	645.41			8.87E+04	6.45E+02
	6	67.50	7.48E+02	404.66			7.48E+02	4.05E+02
M	7	85.13	5.74E+02	256.61			5.74E+02	2.57E+02
m	8	88.17	4.52E+04	483.86			4.52E+04	4.84E+02
	9	122.16	1.08E+04	394.82			1.08E+04	3.95E+02
	10	130.52	1.49E+02	167.22			1.49E+02	1.67E+02
	11	136.47	1.46E+03	290.14			1.46E+03	2.90E+02
	12	165.92	2.22E+03	228.84			2.22E+03	2.29E+02
	13	238.78	2.67E+02	182.08	1.10E+01	1.66E+00	2.56E+02	1.82E+02
	14	391.70	8.09E+02	221.52			8.09E+02	2.22E+02
	15	402.62	2.04E+02	168.34			2.04E+02	1.68E+02
	16	510.43	2.04E+02	182.79	4.50E+01	2.84E+00	1.58E+02	1.83E+02
	17	567.58	1.47E+02	131.63			1.47E+02	1.32E+02
	18	661.79	3.05E+04	411.51	3.12E+00	1.77E+00	3.05E+04	4.12E+02
	19	809.74	1.70E+02	152.46			1.70E+02	1.52E+02
	20	820.30	3.96E+02	199.21			3.96E+02	1.99E+02
	21	898.10	7.11E+02	196.14			7.11E+02	1.96E+02
	22	1111.06	1.35E+02	145.42			1.35E+02	1.45E+02
	23	1173.48	2.85E+04	367.77	2.44E+00	1.40E+00	2.85E+04	3.68E+02
	24	1300.10	4.25E+01	39.79			4.25E+01	3.98E+01
	25	1332.77	2.58E+04	330.45	2.23E+00	1.31E+00	2.58E+04	3.30E+02
	26	1499.25	2.31E+01	28.24			2.31E+01	2.82E+01
	27	1600.82	2.55E+01	29.46			2.55E+01	2.95E+01
	28	1649.60	8.33E+01	44.82			8.33E+01	4.48E+01
	29	1713.43	3.77E+01	39.09			3.77E+01	3.91E+01
	30	1749.53	4.47E+01	44.16			4.47E+01	4.42E+01
	31	1763.93	3.51E+01	31.95			3.51E+01	3.20E+01
	32	1836.28	4.64E+02	51.30			4.64E+02	5.13E+01
	33	1931.18	2.50E+01	27.62			2.50E+01	2.76E+01
	34	2102.46	3.18E+01	21.86			3.18E+01	2.19E+01
	35	2304.00	4.31E+01	30.46			4.31E+01	3.05E+01
	36	2318.04	1.45E+01	15.10			1.45E+01	1.51E+01
	37	2329.87	2.55E+01	23.22			2.55E+01	2.32E+01
	38	2505.62	3.03E+02	34.81			3.03E+02	3.48E+01
	39	2614.53	2.77E+01	12.04	3.15E+00	8.43E-01	2.45E+01	1.21E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-01

GAS-1302

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/21/2015 7:44:04AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	22.09	1.15E+05	748.80			1.15E+05	7.49E+02
m	2	24.67	3.35E+04	608.24			3.35E+04	6.08E+02
	3	32.42	2.39E+03	253.73			2.39E+03	2.54E+02
M	4	50.36	4.71E+03	312.67			4.71E+03	3.13E+02
m	5	59.65	8.87E+04	645.41			8.87E+04	6.45E+02
	6	67.50	7.48E+02	404.66			7.48E+02	4.05E+02
M	7	85.13	5.74E+02	256.61			5.74E+02	2.57E+02
m	8	88.17	4.52E+04	483.86			4.52E+04	4.84E+02
	9	122.16	1.08E+04	394.82			1.08E+04	3.95E+02
	10	130.52	1.49E+02	167.22			1.49E+02	1.67E+02
	11	136.47	1.46E+03	290.14			1.46E+03	2.90E+02
	12	165.92	2.22E+03	228.84			2.22E+03	2.29E+02
	13	238.78	2.67E+02	182.08	1.10E+01	1.66E+00	2.56E+02	1.82E+02
	14	391.70	8.09E+02	221.52			8.09E+02	2.22E+02
	15	402.62	2.04E+02	168.34			2.04E+02	1.68E+02
	16	510.43	2.04E+02	182.79	4.50E+01	2.84E+00	1.58E+02	1.83E+02
	17	567.58	1.47E+02	131.63			1.47E+02	1.32E+02
	18	661.79	3.05E+04	411.51	3.12E+00	1.77E+00	3.05E+04	4.12E+02
	19	809.74	1.70E+02	152.46			1.70E+02	1.52E+02
	20	820.30	3.96E+02	199.21			3.96E+02	1.99E+02
	21	898.10	7.11E+02	196.14			7.11E+02	1.96E+02
	22	1111.06	1.35E+02	145.42			1.35E+02	1.45E+02
	23	1173.48	2.85E+04	367.77	2.44E+00	1.40E+00	2.85E+04	3.68E+02
	24	1300.10	4.25E+01	39.79			4.25E+01	3.98E+01
	25	1332.77	2.58E+04	330.45	2.23E+00	1.31E+00	2.58E+04	3.30E+02
	26	1499.25	2.31E+01	28.24			2.31E+01	2.82E+01
	27	1600.82	2.55E+01	29.46			2.55E+01	2.95E+01
	28	1649.60	8.33E+01	44.82			8.33E+01	4.48E+01
	29	1713.43	3.77E+01	39.09			3.77E+01	3.91E+01
	30	1749.53	4.47E+01	44.16			4.47E+01	4.42E+01
	31	1763.93	3.51E+01	31.95			3.51E+01	3.20E+01
	32	1836.28	4.64E+02	51.30			4.64E+02	5.13E+01
	33	1931.18	2.50E+01	27.62			2.50E+01	2.76E+01
	34	2102.46	3.18E+01	21.86			3.18E+01	2.19E+01
	35	2304.00	4.31E+01	30.46			4.31E+01	3.05E+01
	36	2318.04	1.45E+01	15.10			1.45E+01	1.51E+01
	37	2329.87	2.55E+01	23.22			2.55E+01	2.32E+01
	38	2505.62	3.03E+02	34.81			3.03E+02	3.48E+01
	39	2614.53	2.77E+01	12.04	3.15E+00	8.43E-01	2.45E+01	1.21E+01

Analysis Report for 1506114-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.961	122.06	*	85.51	6.56E+01	7.75E+00
		136.48	*	10.60	7.57E+01	1.71E+01
CO-60	0.987	1173.22	*	100.00	1.38E+02	1.15E+01
		1332.49	*	100.00	1.38E+02	1.47E+01
Y-88	0.776	898.02	*	93.40	2.99E+02	8.64E+01
		1836.01	*	99.38	3.04E+02	4.10E+01
CD-109	0.984	88.03	*	3.72	2.67E+03	4.52E+02
SN-113	0.766	255.12		1.93		
		391.69	*	64.90	1.83E+02	5.24E+01
SN-126	0.944	87.57	*	37.00	8.76E+01	1.39E+01
CS-137	0.997	661.65	*	85.12	8.79E+01	7.63E+00
CE-139	0.861	165.85	*	80.35	1.09E+02	1.38E+01
TM-171	0.902	66.72	*	0.14	9.04E+02	4.97E+02
PB-212	0.891	238.63	*	44.60	6.55E-01	4.70E-01
		300.09		3.41		
RN-219	0.899	401.80	*	6.50	5.12E+00	4.25E+00
TH-231	0.865	25.64	*	14.70	1.19E+04	5.14E+04
		84.21	*	6.40	6.46E+00	3.05E+00
PA-234	0.405	131.20	*	20.40	5.76E-01	6.49E-01
		733.99		8.80		
		946.00		12.00		
AM-241	0.998	59.54	*	35.90	2.29E+02	1.77E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-01
GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 7:44:04AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	22.09	6.40902E+01	0.32		
	3	32.42	1.32898E+00	5.30		
M	4	50.36	2.61842E+00	3.32	Tol.	TE-132 TH-227
	16	510.43	8.80548E-02	57.67		
	17	567.58	8.16504E-02	44.78	Sum	
	19	809.74	9.44538E-02	44.84	Tol.	LU-172
	20	820.30	2.19919E-01	25.16		
	22	1111.06	7.49691E-02	53.88	Tol.	EU-152
	24	1300.10	2.36233E-02	46.78	Sum	
	26	1499.25	1.28230E-02	61.17	Sum	
	27	1600.82	1.41511E-02	57.83		
	28	1649.60	4.62711E-02	26.91		
	29	1713.43	2.09534E-02	51.83		
	30	1749.53	2.48238E-02	49.41		
	31	1763.93	1.94753E-02	45.57	Tol.	BI-214
	33	1931.18	1.38889E-02	55.24		
	34	2102.46	1.76901E-02	34.33		
	35	2304.00	2.39339E-02	35.35		
	36	2318.04	8.07471E-03	51.94		
	37	2329.87	1.41553E-02	45.56		
	38	2505.62	1.68333E-01	5.74	Sum	
	39	2614.53	1.36133E-02	24.63	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506114-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.96	122.06	*	85.51	6.56E+01	7.75E+00
		136.48	*	10.60	7.57E+01	1.71E+01
CO-60	0.98	1173.22	*	100.00	1.38E+02	1.15E+01
		1332.49	*	100.00	1.38E+02	1.47E+01
Y-88	0.77	898.02	*	93.40	2.99E+02	8.64E+01
		1836.01	*	99.38	3.04E+02	4.10E+01
CD-109	0.98	88.03	*	3.72	2.67E+03	4.52E+02
SN-113	0.76	255.12		1.93		
		391.69	*	64.90	1.83E+02	5.24E+01
SN-126	0.94	87.57	*	37.00	8.76E+01	1.39E+01
CS-137	0.99	661.65	*	85.12	8.79E+01	7.63E+00
CE-139	0.86	165.85	*	80.35	1.09E+02	1.38E+01
TM-171	0.90	66.72	*	0.14	9.04E+02	4.97E+02
PB-212	0.89	238.63	*	44.60	6.55E-01	4.70E-01
		300.09		3.41		
RN-219	0.89	401.80	*	6.50	5.12E+00	4.25E+00
TH-231	0.86	25.64	*	14.70	1.19E+04	5.14E+04
		84.21	*	6.40	6.46E+00	3.05E+00
PA-234	0.40	131.20	*	20.40	5.76E-01	6.49E-01
		733.99		8.80		
		946.00		12.00		
AM-241	0.99	59.54	*	35.90	2.29E+02	1.77E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.961	6.73E+01	7.07E+00	
	CO-60	0.987	1.38E+02	9.08E+00	
	Y-88	0.776	3.03E+02	3.71E+01	
?	CD-109	0.984	2.67E+03	4.52E+02	
	SN-113	0.766	1.83E+02	5.24E+01	

Analysis Report for 1506114-01

GAS-1302

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
?	SN-126	0.944	8.76E+01	1.39E+01	
	CS-137	0.997	8.79E+01	7.63E+00	
	CE-139	0.861	1.09E+02	1.38E+01	
	TM-171	0.902	9.04E+02	4.97E+02	
	PB-212	0.891	6.55E-01	4.70E-01	
	RN-219	0.899	5.12E+00	4.25E+00	
	TH-231	0.865	6.46E+00	3.05E+00	
	PA-234	0.405	5.76E-01	6.49E-01	
	AM-241	0.998	2.29E+02	1.77E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-01

GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 7:44:04AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	22.09	6.40902E+01	0.32		
	3	32.42	1.32898E+00	5.30		
M	4	50.36	2.61842E+00	3.32	Tol.	TE-132 TH-227
	16	510.43	8.80548E-02	57.67		
	17	567.58	8.16504E-02	44.78	Sum	
	19	809.74	9.44538E-02	44.84	Tol.	LU-172
	20	820.30	2.19919E-01	25.16		
	22	1111.06	7.49691E-02	53.88	Tol.	EU-152
	24	1300.10	2.36233E-02	46.78	Sum	
	26	1499.25	1.28230E-02	61.17	Sum	
	27	1600.82	1.41511E-02	57.83		
	28	1649.60	4.62711E-02	26.91		
	29	1713.43	2.09534E-02	51.83		
	30	1749.53	2.48238E-02	49.41		
	31	1763.93	1.94753E-02	45.57	Tol.	BI-214
	33	1931.18	1.38889E-02	55.24		
	34	2102.46	1.76901E-02	34.33		
	35	2304.00	2.39339E-02	35.35		
	36	2318.04	8.07471E-03	51.94		
	37	2329.87	1.41553E-02	45.56		
	38	2505.62	1.68333E-01	5.74	Sum	
	39	2614.53	1.36133E-02	24.63	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-01

GAS-1302

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	2.97E+04	6.69E+04	6.69E+04
+		NA-22	1274.54		99.94	3.60E-01	5.21E-01	5.21E-01
+	@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09		99.86	1.00E+26		1.00E+26
+		AL-26	1808.65		99.76	-5.66E-02	1.82E-01	1.82E-01
+		K-40	1460.81		10.67	1.01E+00	2.01E+00	2.01E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	4.13E-01	2.98E-01	3.38E-01
			78.34		96.00	6.74E-02		2.98E-01
+		SC-46	889.25		99.98	2.27E+01	3.00E+02	3.14E+02
			1120.51		99.99	-4.83E+00		3.00E+02
+		V-48	983.52		99.98	1.29E+13	4.04E+13	9.08E+13
			1312.10		97.50	2.26E+13		4.04E+13
+		CR-51	320.08		9.83	-8.67E+07	4.83E+08	4.83E+08
+		MN-54	834.83		99.97	2.32E-01	3.01E+00	3.01E+00
+		CO-56	846.75		99.96	3.17E+02	2.37E+02	4.34E+02
			1037.75		14.03	2.47E+02		3.41E+03
			1238.25		67.00	-2.70E+02		3.27E+02
			1771.40		15.51	-1.81E+02		8.48E+02
			2598.48		16.90	6.60E+01		2.37E+02
+		CO-57	122.06	*	85.51	6.56E+01	3.39E+00	3.39E+00
			136.48	*	10.60	7.57E+01		2.40E+01
+		CO-58	810.76		99.40	8.22E+02	8.57E+02	8.57E+02
+		FE-59	1099.22		56.50	7.51E+04	7.13E+04	1.39E+05
			1291.56		43.20	1.06E+03		7.13E+04
+		CO-60	1173.22	*	100.00	1.38E+02	6.95E-01	1.18E+00
			1332.49	*	100.00	1.38E+02		6.95E-01
+		ZN-65	1115.52		50.75	2.84E+00	1.10E+01	1.10E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	3.73E+03	3.63E+01	2.05E+02
			136.00		59.20	1.42E+02		3.63E+01
			264.65		59.80	-1.33E+01		4.09E+01
			279.53		25.20	6.03E+00		9.83E+01
			400.65		11.40	-3.68E+01		2.57E+02
+		RB-82	776.52		13.00	3.29E+08	2.71E+09	2.71E+09
+		RB-83	520.41		46.00	-1.17E+02	3.34E+02	3.34E+02
			529.64		30.30	1.50E+02		5.12E+02
			552.65		16.40	-2.31E+02		9.36E+02
+		KR-85	513.99		0.43	3.93E+01	9.95E+01	9.95E+01
+		SR-85	513.99		99.27	4.57E+02	1.16E+03	1.16E+03

Analysis Report for 1506114-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		Y-88	898.02	*	93.40	2.99E+02	3.18E+01	1.32E+02
			1836.01	*	99.38	3.04E+02		3.18E+01
+		NB-93M	16.57		9.43	5.75E+04	3.60E+04	3.60E+04
+		NB-94	702.63		100.00	-1.59E-01	4.69E-01	4.69E-01
			871.10		100.00	2.56E-01		6.23E-01
+		NB-95	765.79		99.81	-2.20E+05	1.40E+06	1.40E+06
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	2.55E+02	3.09E+03	3.72E+03
			756.72		55.30	1.73E+03		3.09E+03
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	-6.48E+04	2.30E+05	2.30E+05
+		RU-106	621.84		9.80	-3.09E+00	1.89E+01	1.89E+01
+		AG-108M	433.93		89.90	-1.22E-01	4.37E-01	4.37E-01
			614.37		90.40	-2.63E-01		4.97E-01
			722.95		90.50	-9.80E-02		5.35E-01
+		CD-109	88.03	*	3.72	2.67E+03	4.29E+01	4.29E+01
+		AG-110M	657.75		93.14	3.54E+01	7.09E+00	1.17E+01
			677.61		10.53	2.64E+00		3.49E+01
			706.67		16.46	-7.24E+00		2.26E+01
			763.93		21.98	2.48E-01		1.83E+01
			884.67		71.63	5.61E-01		7.09E+00
			1384.27		23.94	7.37E+00		7.09E+00
+		CD-113M	263.70		0.02	5.96E+01	1.53E+03	1.53E+03
+		SN-113	255.12		1.93	-1.01E+03	8.02E+01	1.52E+03
			391.69	*	64.90	1.83E+02		8.02E+01
+		TE123M	159.00		84.10	3.99E+00	2.38E+01	2.38E+01
+		SB-124	602.71		97.87	9.65E+02	2.24E+03	2.53E+03
			645.85		7.26	-1.88E+04		3.59E+04
			722.78		11.10	-4.45E+03		2.43E+04
			1691.02		49.00	-1.90E+02		2.24E+03
+		I-125	35.49		6.49	8.82E+04	9.95E+04	9.95E+04
+		SB-125	176.33		6.89	-2.23E+00	2.19E+00	6.46E+00
			427.89		29.33	-1.10E+00		2.19E+00
			463.38		10.35	3.74E+00		6.93E+00
			600.56		17.80	-1.23E+00		4.09E+00
			635.90		11.32	-2.43E+00		6.56E+00
+		SB-126	414.70		83.30	1.05E+16	7.41E+17	7.41E+17
			666.33		99.60	-7.38E+16		1.13E+18
			695.00		99.60	3.55E+17		7.55E+17
			720.50		53.80	5.61E+16		1.44E+18
+		SN-126	87.57	*	37.00	8.76E+01	1.41E+00	1.41E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-5.26E+01	4.88E+00	4.88E+00
			33.60		13.20	-1.19E+01		1.25E+01

Analysis Report for 1506114-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		I-129	39.58		7.52	-1.43E+01	4.88E+00	9.73E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26
+	@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@		228.16		88.00	1.00E+26		1.00E+26
+		BA-133	81.00		33.00	-3.47E-01	6.66E-01	9.66E-01
			302.84		17.80	-4.59E-01		2.10E+00
			356.01		60.00	2.39E-01		6.66E-01
+	@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+		CS-134	563.23		8.38	-3.95E+00	8.93E-01	8.76E+00
			569.32		15.43	-1.11E+00		4.86E+00
			604.70		97.60	-6.40E-01		8.93E-01
			795.84		85.40	-3.46E-01		1.23E+00
			801.93		8.73	-1.49E+00		1.22E+01
+		CS-135	268.24		16.00	-5.79E-01	2.00E+00	2.00E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	2.82E+16	8.15E+16	4.90E+17
			163.89		4.61	2.83E+18		9.81E+17
			176.55		13.56	-1.73E+17		2.82E+17
			273.65		12.66	-5.63E+16		3.67E+17
			340.57		48.50	4.95E+16		1.02E+17
			818.50		99.70	3.81E+16		8.15E+16
			1048.07		79.60	4.44E+16		1.18E+17
			1235.34		19.70	9.53E+16		2.37E+17
+		CS-137	661.65	*	85.12	8.79E+01	1.04E+00	1.04E+00
+		LA-138	788.74		34.00	-4.23E-02	2.98E-01	1.55E+00
			1435.80		66.00	-8.54E-03		2.98E-01
+		CE-139	165.85	*	80.35	1.09E+02	1.69E+01	1.69E+01
+		BA-140	162.64		6.70	5.98E+17	6.64E+17	1.83E+18
			304.84		4.50	1.21E+18		3.32E+18
			423.70		3.20	9.98E+17		5.46E+18
			437.55		2.00	6.32E+17		8.98E+18
			537.32		25.00	-8.41E+16		6.64E+17
+		LA-140	328.77		20.50	-3.89E+17	1.10E+17	7.29E+17
			487.03		45.50	9.21E+15		3.81E+17
			815.85		23.50	-5.45E+17		1.05E+18
			1596.49		95.49	3.48E+16		1.10E+17
+		CE-141	145.44		48.40	-6.08E+05	4.56E+06	4.56E+06
+	@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
	@		293.26		42.00	1.00E+26		1.00E+26
	@		664.55		5.20	1.00E+26		1.00E+26
+		CE-144	133.54		10.80	-7.61E+01	1.49E+01	1.49E+01
+		PM-144	476.78		42.00	1.83E+00	1.93E+00	4.13E+00
			618.01		98.60	3.82E-01		1.93E+00
			696.49		99.49	4.37E-01		1.96E+00

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		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		PM-145	36.85		21.70	1.08E+01	2.56E+00	4.99E+00
			37.36		39.70	5.56E+00		2.56E+00
			42.30		15.10	-7.23E+00		4.58E+00
			72.40		2.31	4.81E+00		1.36E+01
+		PM-146	453.90		39.94	-1.04E+00	1.33E+00	1.33E+00
			735.90		14.01	-1.16E+00		4.42E+00
			747.13		13.10	3.25E+00		5.00E+00
+	@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26
	@		531.02		13.10	1.00E+26		1.00E+26
+	@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78		20.50	4.38E+01	1.53E+00	2.40E+00
			244.69		5.40	1.60E+00		6.57E+00
			344.27		19.13	5.83E-01		2.01E+00
			778.89		9.20	1.91E+00		6.30E+00
			964.01		10.40	6.29E+00		7.62E+00
			1085.78		7.22	1.67E+00		1.00E+01
			1112.02		9.60	6.42E+00		7.92E+00
			1407.95		14.94	-1.21E-01		1.53E+00
+		GD-153	97.43		31.30	2.66E+00	6.59E+00	6.59E+00
			103.18		22.20	3.08E+00		9.41E+00
+		EU-154	123.07		40.50	2.37E+01	9.97E-01	1.29E+00
			723.30		19.70	-5.24E-01		2.86E+00
			873.19		11.50	3.59E+00		6.37E+00
			996.32		10.30	-2.51E-01		7.52E+00
			1004.76		17.90	1.57E+00		4.30E+00
			1274.45		35.50	6.88E-01		9.97E-01
+		EU-155	86.50		30.90	1.40E+02	1.59E+00	3.37E+00
			105.30		20.70	7.96E-01		1.59E+00
+		EU-156	811.77		10.40	4.45E+14	2.74E+15	3.85E+15
			1153.47		7.20	-1.82E+14		5.39E+15
			1230.71		8.90	4.42E+14		2.74E+15
+		HO-166M	184.41		72.60	-1.75E-01	3.90E-01	3.90E-01
			280.45		29.60	6.71E-02		1.09E+00
			410.94		11.10	-1.32E+00		3.43E+00
			711.69		54.10	-2.05E-01		8.52E-01
+		TM-171	66.72	*	0.14	9.04E+02	8.01E+02	8.01E+02
+		HF-172	81.75		4.52	-5.31E+00	4.61E+00	1.33E+01
			125.81		11.30	1.08E+00		4.61E+00
+	@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06		16.63	1.00E+26		1.00E+26
	@		912.12		15.25	1.00E+26		1.00E+26
	@		1093.66		62.50	1.00E+26		1.00E+26
+		LU-173	100.72		5.24	-2.96E+00	4.33E+00	1.30E+01
			272.11		21.20	3.43E+00		4.33E+00
+		HF-175	343.40		84.00	2.93E+02	6.94E+02	6.94E+02
+		LU-176	88.34		13.30	2.40E+02	3.46E-01	5.79E+00
			201.83		86.00	-2.59E-01		3.46E-01
			306.78		94.00	5.02E-02		3.52E-01
+		TA-182	67.75		41.20	8.71E+01	7.13E+01	7.13E+01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TA-182	1121.30		34.90	-6.11E+01	7.13E+01	1.60E+02
		1189.05		16.23	-1.47E+02		2.50E+02
		1221.41		26.98	5.00E+01		1.21E+02
		1231.02		11.44	5.35E+01		2.71E+02
+	IR-192	308.46		29.68	1.90E+02	9.97E+02	1.26E+03
		468.07		48.10	-3.61E+01		9.97E+02
+	HG-203	279.19		77.30	1.63E+03	2.94E+04	2.94E+04
+	BI-207	569.67		97.72	-9.21E-02	4.02E-01	4.02E-01
		1063.62		74.90	8.51E-02		9.11E-01
+	TL-208	583.14		30.22	1.22E+00	3.96E-01	1.48E+00
		860.37		4.48	-1.19E+01		1.31E+01
		2614.66		35.85	3.54E-01		3.96E-01
+	BI-210M	262.00		45.00	-3.24E-01	7.01E-01	7.01E-01
		300.00		23.00	-8.06E-02		1.42E+00
+	PB-210	46.50		4.25	-1.02E+02	1.57E+01	1.57E+01
+	PB-211	404.84		2.90	1.79E-02	1.31E+01	1.31E+01
		831.96		2.90	-4.44E+00		1.95E+01
+	BI-212	727.17		11.80	-1.09E+00	4.10E+00	4.10E+00
		1620.62		2.75	3.60E-01		7.69E+00
+	PB-212	238.63	*	44.60	6.55E-01	7.62E-01	7.62E-01
		300.09		3.41	-5.43E-01		9.59E+00
+	BI-214	609.31		46.30	1.06E-01	9.56E-01	9.56E-01
		1120.29		15.10	-6.49E-02		4.03E+00
		1764.49		15.80	1.29E+00		1.47E+00
		2204.22		4.98	2.09E-01		3.43E+00
+	PB-214	295.21		19.19	4.28E-01	9.38E-01	1.71E+00
		351.92		37.19	-2.17E-01		9.38E-01
+	RN-219	401.80	*	6.50	5.12E+00	6.92E+00	6.92E+00
+	RA-223	323.87		3.88	1.25E+00	8.63E+00	8.63E+00
+	RA-224	240.98		3.95	4.92E-01	8.34E+00	8.34E+00
+	RA-225	40.00		31.00	-6.03E+15	4.09E+15	4.09E+15
+	RA-226	186.21		3.28	6.50E+00	8.86E+00	8.86E+00
+	TH-227	50.10		8.40	2.61E+01	2.84E+00	8.36E+00
		236.00		11.50	2.34E-01		2.84E+00
		256.20		6.30	-5.04E-01		5.10E+00
+	AC-228	338.32		11.40	-1.91E+00	2.47E+00	2.93E+00
		911.07		27.70	2.53E-01		2.47E+00
		969.11		16.60	-8.51E-01		4.09E+00
+	TH-230	48.44		16.90	6.78E+00	4.24E+00	4.24E+00
		62.85		4.60	-3.99E+00		6.07E+00
		67.67		0.37	1.03E+02		8.45E+01
+	PA-231	283.67		1.60	-6.24E-01	1.42E+01	2.01E+01
		302.67		2.30	-3.10E+00		1.42E+01
+	TH-231	25.64	*	14.70	1.19E+04	8.35E+00	2.41E+02
		84.21	*	6.40	6.46E+00		8.35E+00
+	PA-233	311.98		38.60	-3.44E+07	1.96E+08	1.96E+08
+	PA-234	131.20	*	20.40	5.76E-01	1.06E+00	1.06E+00
		733.99		8.80	-2.77E-01		5.48E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	946.00		12.00	-8.29E-01	1.06E+00	6.04E+00
+	PA-234M	1001.03		0.92	1.56E+01	7.14E+01	7.14E+01
+	TH-234	63.29		3.80	-4.79E+00	7.29E+00	7.29E+00
+	U-235	143.76		10.50	1.10E-01	2.36E+00	2.36E+00
		163.35		4.70	1.89E+00		5.77E+00
		205.31		4.70	7.96E-01		6.44E+00
+	NP-237	86.50		12.60	2.57E+02	6.21E+00	6.21E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	2.29E+02	3.16E+00	3.16E+00
+	AM-243	74.67		66.00	-4.87E-01	4.26E-01	4.26E-01
+	CM-243	209.75		3.29	-5.46E+00	2.46E+00	9.80E+00
		228.14		10.60	1.39E+00		3.27E+00
		277.60		14.00	2.73E+00		2.46E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59	10.42	6.69E+04	6.69E+04	2.97E+04	3.30E+04
	NA-22	1274.54	99.94	5.21E-01	5.21E-01	3.60E-01	2.51E-01
@	NA-24	1368.53	99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09	99.86	1.00E+26		1.00E+26	1.00E+20
	AL-26	1808.65	99.76	1.82E-01	1.82E-01	-5.66E-02	8.45E-02
	K-40	1460.81	10.67	2.01E+00	2.01E+00	1.01E+00	9.52E-01
@	AR-41	1293.64	99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20

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GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TI-44	67.88		94.40	3.38E-01	2.98E-01	4.13E-01	1.68E-01
		78.34		96.00	2.98E-01		6.74E-02	1.48E-01
	SC-46	889.25		99.98	3.14E+02	3.00E+02	2.27E+01	1.55E+02
		1120.51		99.99	3.00E+02		-4.83E+00	1.48E+02
	V-48	983.52		99.98	9.08E+13	4.04E+13	1.29E+13	4.48E+13
		1312.10		97.50	4.04E+13		2.26E+13	1.94E+13
	CR-51	320.08		9.83	4.83E+08	4.83E+08	-8.67E+07	2.39E+08
	MN-54	834.83		99.97	3.01E+00	3.01E+00	2.32E-01	1.49E+00
	CO-56	846.75		99.96	4.34E+02	2.37E+02	3.17E+02	2.14E+02
		1037.75		14.03	3.41E+03		2.47E+02	1.68E+03
		1238.25		67.00	3.27E+02		-2.70E+02	1.58E+02
		1771.40		15.51	8.48E+02		-1.81E+02	3.93E+02
		2598.48		16.90	2.37E+02		6.60E+01	8.86E+01
+	CO-57	122.06	*	85.51	3.39E+00	3.39E+00	6.56E+01	1.69E+00
		136.48	*	10.60	2.40E+01		7.57E+01	1.19E+01
	CO-58	810.76		99.40	8.57E+02	8.57E+02	8.22E+02	4.23E+02
	FE-59	1099.22		56.50	1.39E+05	7.13E+04	7.51E+04	6.84E+04
		1291.56		43.20	7.13E+04		1.06E+03	3.42E+04
+	CO-60	1173.22	*	100.00	1.18E+00	6.95E-01	1.38E+02	5.85E-01
		1332.49	*	100.00	6.95E-01		1.38E+02	3.40E-01
	ZN-65	1115.52		50.75	1.10E+01	1.10E+01	2.84E+00	5.41E+00
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	2.05E+02	3.63E+01	3.73E+03	1.02E+02
		136.00		59.20	3.63E+01		1.42E+02	1.80E+01
		264.65		59.80	4.09E+01		-1.33E+01	2.02E+01
		279.53		25.20	9.83E+01		6.03E+00	4.86E+01
		400.65		11.40	2.57E+02		-3.68E+01	1.27E+02
	RB-82	776.52		13.00	2.71E+09	2.71E+09	3.29E+08	1.34E+09
	RB-83	520.41		46.00	3.34E+02	3.34E+02	-1.17E+02	1.65E+02
		529.64		30.30	5.12E+02		1.50E+02	2.52E+02
		552.65		16.40	9.36E+02		-2.31E+02	4.61E+02
	KR-85	513.99		0.43	9.95E+01	9.95E+01	3.93E+01	4.91E+01
	SR-85	513.99		99.27	1.16E+03	1.16E+03	4.57E+02	5.70E+02
+	Y-88	898.02	*	93.40	1.32E+02	3.18E+01	2.99E+02	6.52E+01
		1836.01	*	99.38	3.18E+01		3.04E+02	1.50E+01
	NB-93M	16.57		9.43	3.60E+04	3.60E+04	5.75E+04	1.79E+04
	NB-94	702.63		100.00	4.69E-01	4.69E-01	-1.59E-01	2.31E-01
		871.10		100.00	6.23E-01		2.56E-01	3.08E-01
	NB-95	765.79		99.81	1.40E+06	1.40E+06	-2.20E+05	6.90E+05
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	3.72E+03	3.09E+03	2.55E+02	1.83E+03
		756.72		55.30	3.09E+03		1.73E+03	1.52E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	2.30E+05	2.30E+05	-6.48E+04	1.14E+05
	RU-106	621.84		9.80	1.89E+01	1.89E+01	-3.09E+00	9.31E+00
	AG-108M	433.93		89.90	4.37E-01	4.37E-01	-1.22E-01	2.16E-01
		614.37		90.40	4.97E-01		-2.63E-01	2.45E-01
		722.95		90.50	5.35E-01		-9.80E-02	2.64E-01
+	CD-109	88.03	*	3.72	4.29E+01	4.29E+01	2.67E+03	2.14E+01

Analysis Report for 1506114-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	657.75		93.14	1.17E+01	7.09E+00	3.54E+01	5.84E+00
		677.61		10.53	3.49E+01		2.64E+00	1.72E+01
		706.67		16.46	2.26E+01		-7.24E+00	1.12E+01
		763.93		21.98	1.83E+01		2.48E-01	9.03E+00
		884.67		71.63	7.09E+00		5.61E-01	3.50E+00
		1384.27		23.94	7.09E+00		7.37E+00	3.36E+00
	CD-113M	263.70		0.02	1.53E+03	1.53E+03	5.96E+01	7.59E+02
+	SN-113	255.12		1.93	1.52E+03	8.02E+01	-1.01E+03	7.51E+02
		391.69	*	64.90	8.02E+01		1.83E+02	3.98E+01
	TE123M	159.00		84.10	2.38E+01	2.38E+01	3.99E+00	1.18E+01
	SB-124	602.71		97.87	2.53E+03	2.24E+03	9.65E+02	1.25E+03
		645.85		7.26	3.59E+04		-1.88E+04	1.77E+04
		722.78		11.10	2.43E+04		-4.45E+03	1.20E+04
		1691.02		49.00	2.24E+03		-1.90E+02	1.04E+03
	I-125	35.49		6.49	9.95E+04	9.95E+04	8.82E+04	4.93E+04
	SB-125	176.33		6.89	6.46E+00	2.19E+00	-2.23E+00	3.20E+00
		427.89		29.33	2.19E+00		-1.10E+00	1.08E+00
		463.38		10.35	6.93E+00		3.74E+00	3.43E+00
		600.56		17.80	4.09E+00		-1.23E+00	2.02E+00
		635.90		11.32	6.56E+00		-2.43E+00	3.24E+00
	SB-126	414.70		83.30	7.41E+17	7.41E+17	1.05E+16	3.66E+17
		666.33		99.60	1.13E+18		-7.38E+16	5.60E+17
		695.00		99.60	7.55E+17		3.55E+17	3.72E+17
		720.50		53.80	1.44E+18		5.61E+16	7.07E+17
+	SN-126	87.57	*	37.00	1.41E+00	1.41E+00	8.76E+01	7.01E-01
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	4.88E+00	4.88E+00	-5.26E+01	2.41E+00
		33.60		13.20	1.25E+01		-1.19E+01	6.20E+00
		39.58		7.52	9.73E+00		-1.43E+01	4.82E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	9.66E-01	6.66E-01	-3.47E-01	4.79E-01
		302.84		17.80	2.10E+00		-4.59E-01	1.04E+00
		356.01		60.00	6.66E-01		2.39E-01	3.29E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	8.76E+00	8.93E-01	-3.95E+00	4.31E+00
		569.32		15.43	4.86E+00		-1.11E+00	2.40E+00
		604.70		97.60	8.93E-01		-6.40E-01	4.40E-01
		795.84		85.40	1.23E+00		-3.46E-01	6.06E-01
		801.93		8.73	1.22E+01		-1.49E+00	6.04E+00
	CS-135	268.24		16.00	2.00E+00	2.00E+00	-5.79E-01	9.91E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	4.90E+17	8.15E+16	2.82E+16	2.43E+17
		163.89		4.61	9.81E+17		2.83E+18	4.87E+17
		176.55		13.56	2.82E+17		-1.73E+17	1.40E+17

Analysis Report for 1506114-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	273.65		12.66	3.67E+17	8.15E+16	-5.63E+16	1.82E+17
		340.57		48.50	1.02E+17		4.95E+16	5.02E+16
		818.50		99.70	8.15E+16		3.81E+16	4.02E+16
		1048.07		79.60	1.18E+17		4.44E+16	5.79E+16
		1235.34		19.70	2.37E+17		9.53E+16	1.14E+17
+	CS-137	661.65	*	85.12	1.04E+00	1.04E+00	8.79E+01	5.18E-01
	LA-138	788.74		34.00	1.55E+00	2.98E-01	-4.23E-02	7.67E-01
		1435.80		66.00	2.98E-01		-8.54E-03	1.40E-01
+	CE-139	165.85	*	80.35	1.69E+01	1.69E+01	1.09E+02	8.40E+00
	BA-140	162.64		6.70	1.83E+18	6.64E+17	5.98E+17	9.06E+17
		304.84		4.50	3.32E+18		1.21E+18	1.64E+18
		423.70		3.20	5.46E+18		9.98E+17	2.70E+18
		437.55		2.00	8.98E+18		6.32E+17	4.44E+18
		537.32		25.00	6.64E+17		-8.41E+16	3.27E+17
	LA-140	328.77		20.50	7.29E+17	1.10E+17	-3.89E+17	3.60E+17
		487.03		45.50	3.81E+17		9.21E+15	1.88E+17
		815.85		23.50	1.05E+18		-5.45E+17	5.19E+17
		1596.49		95.49	1.10E+17		3.48E+16	5.18E+16
	CE-141	145.44		48.40	4.56E+06	4.56E+06	-6.08E+05	2.26E+06
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	1.49E+01	1.49E+01	-7.61E+01	7.37E+00
	PM-144	476.78		42.00	4.13E+00	1.93E+00	1.83E+00	2.04E+00
		618.01		98.60	1.93E+00		3.82E-01	9.51E-01
		696.49		99.49	1.96E+00		4.37E-01	9.65E-01
	PM-145	36.85		21.70	4.99E+00	2.56E+00	1.08E+01	2.47E+00
		37.36		39.70	2.56E+00		5.56E+00	1.27E+00
		42.30		15.10	4.58E+00		-7.23E+00	2.27E+00
		72.40		2.31	1.36E+01		4.81E+00	6.78E+00
	PM-146	453.90		39.94	1.33E+00	1.33E+00	-1.04E+00	6.57E-01
		735.90		14.01	4.42E+00		-1.16E+00	2.18E+00
		747.13		13.10	5.00E+00		3.25E+00	2.47E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	2.40E+00	1.53E+00	4.38E+01	1.20E+00
		244.69		5.40	6.57E+00		1.60E+00	3.25E+00
		344.27		19.13	2.01E+00		5.83E-01	9.94E-01
		778.89		9.20	6.30E+00		1.91E+00	3.11E+00
		964.01		10.40	7.62E+00		6.29E+00	3.76E+00
		1085.78		7.22	1.00E+01		1.67E+00	4.95E+00
		1112.02		9.60	7.92E+00		6.42E+00	3.90E+00
		1407.95		14.94	1.53E+00		-1.21E-01	7.21E-01
	GD-153	97.43		31.30	6.59E+00	6.59E+00	2.66E+00	3.27E+00
		103.18		22.20	9.41E+00		3.08E+00	4.67E+00
	EU-154	123.07		40.50	1.29E+00	9.97E-01	2.37E+01	6.41E-01
		723.30		19.70	2.86E+00		-5.24E-01	1.41E+00
		873.19		11.50	6.37E+00		3.59E+00	3.14E+00
		996.32		10.30	7.52E+00		-2.51E-01	3.71E+00
		1004.76		17.90	4.30E+00		1.57E+00	2.12E+00
		1274.45		35.50	9.97E-01		6.88E-01	4.81E-01
	EU-155	86.50		30.90	3.37E+00	1.59E+00	1.40E+02	1.68E+00

Analysis Report for 1506114-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-155	105.30		20.70	1.59E+00	1.59E+00	7.96E-01	7.88E-01
	EU-156	811.77		10.40	3.85E+15	2.74E+15	4.45E+14	1.90E+15
		1153.47		7.20	5.39E+15		-1.82E+14	2.65E+15
		1230.71		8.90	2.74E+15		4.42E+14	1.33E+15
	HO-166M	184.41		72.60	3.90E-01	3.90E-01	-1.75E-01	1.93E-01
		280.45		29.60	1.09E+00		6.71E-02	5.41E-01
		410.94		11.10	3.43E+00		-1.32E+00	1.70E+00
		711.69		54.10	8.52E-01		-2.05E-01	4.20E-01
+	TM-171	66.72	*	0.14	8.01E+02	8.01E+02	9.04E+02	3.99E+02
	HF-172	81.75		4.52	1.33E+01	4.61E+00	-5.31E+00	6.60E+00
		125.81		11.30	4.61E+00		1.08E+00	2.29E+00
@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		810.06		16.63	1.00E+26		1.00E+26	1.00E+20
@		912.12		15.25	1.00E+26		1.00E+26	1.00E+20
@		1093.66		62.50	1.00E+26		1.00E+26	1.00E+20
	LU-173	100.72		5.24	1.30E+01	4.33E+00	-2.96E+00	6.47E+00
		272.11		21.20	4.33E+00		3.43E+00	2.14E+00
	HF-175	343.40		84.00	6.94E+02	6.94E+02	2.93E+02	3.43E+02
	LU-176	88.34		13.30	5.79E+00	3.46E-01	2.40E+02	2.89E+00
		201.83		86.00	3.46E-01		-2.59E-01	1.72E-01
		306.78		94.00	3.52E-01		5.02E-02	1.74E-01
	TA-182	67.75		41.20	7.13E+01	7.13E+01	8.71E+01	3.54E+01
		1121.30		34.90	1.60E+02		-6.11E+01	7.88E+01
		1189.05		16.23	2.50E+02		-1.47E+02	1.22E+02
		1221.41		26.98	1.21E+02		5.00E+01	5.89E+01
		1231.02		11.44	2.71E+02		5.35E+01	1.31E+02
	IR-192	308.46		29.68	1.26E+03	9.97E+02	1.90E+02	6.24E+02
		468.07		48.10	9.97E+02		-3.61E+01	4.93E+02
	HG-203	279.19		77.30	2.94E+04	2.94E+04	1.63E+03	1.45E+04
	BI-207	569.67		97.72	4.02E-01	4.02E-01	-9.21E-02	1.98E-01
		1063.62		74.90	9.11E-01		8.51E-02	4.49E-01
	TL-208	583.14		30.22	1.48E+00	3.96E-01	1.22E+00	7.31E-01
		860.37		4.48	1.31E+01		-1.19E+01	6.48E+00
		2614.66		35.85	3.96E-01		3.54E-01	1.79E-01
	BI-210M	262.00		45.00	7.01E-01	7.01E-01	-3.24E-01	3.47E-01
		300.00		23.00	1.42E+00		-8.06E-02	7.03E-01
	PB-210	46.50		4.25	1.57E+01	1.57E+01	-1.02E+02	7.82E+00
	PB-211	404.84		2.90	1.31E+01	1.31E+01	1.79E-02	6.46E+00
		831.96		2.90	1.95E+01		-4.44E+00	9.60E+00
	BI-212	727.17		11.80	4.10E+00	4.10E+00	-1.09E+00	2.02E+00
		1620.62		2.75	7.69E+00		3.60E-01	3.61E+00
+	PB-212	238.63	*	44.60	7.62E-01	7.62E-01	6.55E-01	3.78E-01
		300.09		3.41	9.59E+00		-5.43E-01	4.74E+00
	BI-214	609.31		46.30	9.56E-01	9.56E-01	1.06E-01	4.72E-01
		1120.29		15.10	4.03E+00		-6.49E-02	1.98E+00
		1764.49		15.80	1.47E+00		1.29E+00	6.93E-01
		2204.22		4.98	3.43E+00		2.09E-01	1.57E+00
	PB-214	295.21		19.19	1.71E+00	9.38E-01	4.28E-01	8.48E-01
		351.92		37.19	9.38E-01		-2.17E-01	4.64E-01
+	RN-219	401.80	*	6.50	6.92E+00	6.92E+00	5.12E+00	3.42E+00
	RA-223	323.87		3.88	8.63E+00	8.63E+00	1.25E+00	4.27E+00
	RA-224	240.98		3.95	8.34E+00	8.34E+00	4.92E-01	4.13E+00
	RA-225	40.00		31.00	4.09E+15	4.09E+15	-6.03E+15	2.03E+15

Analysis Report for 1506114-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RA-226	186.21		3.28	8.86E+00	8.86E+00	6.50E+00	4.39E+00
	TH-227	50.10		8.40	8.36E+00	2.84E+00	2.61E+01	4.16E+00
		236.00		11.50	2.84E+00		2.34E-01	1.41E+00
		256.20		6.30	5.10E+00		-5.04E-01	2.52E+00
	AC-228	338.32		11.40	2.93E+00	2.47E+00	-1.91E+00	1.45E+00
		911.07		27.70	2.47E+00		2.53E-01	1.22E+00
		969.11		16.60	4.09E+00		-8.51E-01	2.02E+00
	TH-230	48.44		16.90	4.24E+00	4.24E+00	6.78E+00	2.11E+00
		62.85		4.60	6.07E+00		-3.99E+00	3.01E+00
		67.67		0.37	8.45E+01		1.03E+02	4.20E+01
	PA-231	283.67		1.60	2.01E+01	1.42E+01	-6.24E-01	9.93E+00
		302.67		2.30	1.42E+01		-3.10E+00	7.03E+00
+	TH-231	25.64	*	14.70	2.41E+02	8.35E+00	1.19E+04	1.20E+02
		84.21	*	6.40	8.35E+00		6.46E+00	4.16E+00
	PA-233	311.98		38.60	1.96E+08	1.96E+08	-3.44E+07	9.71E+07
+	PA-234	131.20	*	20.40	1.06E+00	1.06E+00	5.76E-01	5.26E-01
		733.99		8.80	5.48E+00		-2.77E-01	2.70E+00
		946.00		12.00	6.04E+00		-8.29E-01	2.98E+00
	PA-234M	1001.03		0.92	7.14E+01	7.14E+01	1.56E+01	3.52E+01
	TH-234	63.29		3.80	7.29E+00	7.29E+00	-4.79E+00	3.61E+00
	U-235	143.76		10.50	2.36E+00	2.36E+00	1.10E-01	1.17E+00
		163.35		4.70	5.77E+00		1.89E+00	2.86E+00
		205.31		4.70	6.44E+00		7.96E-01	3.19E+00
	NP-237	86.50		12.60	6.21E+00	6.21E+00	2.57E+02	3.10E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.16E+00	3.16E+00	2.29E+02	1.57E+00
	AM-243	74.67		66.00	4.26E-01	4.26E-01	-4.87E-01	2.11E-01
	CM-243	209.75		3.29	9.80E+00	2.46E+00	-5.46E+00	4.86E+00
		228.14		10.60	3.27E+00		1.39E+00	1.62E+00
		277.60		14.00	2.46E+00		2.73E+00	1.22E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1506114-01

GAS-1302

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1822

Channel								
1:	0	0	0	0	0	0	15	1099
9:	1387	1718	2607	6072	7243	3044	2821	2231
17:	1770	2855	1655	2433	8881	80389	42381	5328
25:	27247	11442	1668	776	805	829	929	2212
33:	1854	1247	852	1146	1298	1193	1087	1162
41:	1333	1409	1711	1925	2020	2135	2467	3115
49:	4328	5017	4753	4647	4606	4626	4917	5300
57:	5550	5857	23809	60950	6294	1467	1605	1643
65:	1819	2102	2313	2316	2246	2149	2159	2157
73:	2247	2140	2090	2102	2256	2216	2106	2194
81:	2204	2245	2338	2402	2553	2496	4234	30705
89:	14422	1072	1045	1041	1049	1063	995	977
97:	1003	1033	1084	965	979	975	1095	1036
105:	1016	1021	1049	1032	1053	1058	980	1031
113:	986	1068	1063	1090	1069	1063	1098	1062
121:	1535	7969	3970	919	884	873	866	934
129:	860	934	931	826	820	841	917	1346
137:	1565	848	839	809	810	825	798	838
145:	857	746	810	813	783	765	782	806
153:	812	764	804	807	790	786	825	777
161:	814	776	735	786	1084	2239	1036	674
169:	721	741	774	746	745	776	702	734
177:	740	717	759	758	767	760	753	751
185:	806	839	837	849	786	884	824	837
193:	817	766	817	808	837	810	837	764
201:	765	797	802	737	803	793	763	756
209:	760	774	800	802	844	870	864	846
217:	792	873	855	821	859	827	794	810
225:	798	788	798	804	825	806	766	813
233:	801	786	775	688	714	802	849	765
241:	708	738	669	691	698	716	656	629
249:	678	677	682	679	676	629	641	627
257:	671	688	643	599	594	653	602	599
265:	627	602	628	612	595	608	622	635
273:	591	605	555	621	601	629	553	625
281:	544	566	567	558	567	574	584	559
289:	542	589	533	555	581	540	583	599
297:	507	546	533	564	566	511	573	505
305:	530	537	571	535	528	552	542	480
313:	537	493	530	523	559	512	519	548
321:	523	518	515	529	511	492	495	465
329:	502	505	488	532	494	451	518	461
337:	475	515	470	486	507	535	509	453
345:	538	490	481	495	500	469	517	555
353:	482	459	512	483	474	521	467	447
361:	440	464	506	489	467	513	467	491

369:	478	513	482	492	489	477	477	458

Sample Title: GAS-1302

Channel								
377:	475	486	456	469	456	508	454	473
385:	494	450	481	488	487	515	738	940
393:	519	464	473	469	493	487	466	475
401:	508	515	514	513	424	473	493	503
409:	492	442	467	512	475	485	502	463
417:	436	455	465	485	473	466	458	486
425:	468	472	451	449	482	443	492	479
433:	441	450	466	464	476	476	491	479
441:	499	499	497	516	504	500	470	463
449:	484	514	514	472	493	504	457	489
457:	537	508	508	470	548	504	497	502
465:	515	464	509	549	511	465	514	479
473:	503	469	491	480	493	420	409	414
481:	405	422	397	408	386	361	368	397
489:	394	376	354	365	369	349	334	340
497:	369	334	383	374	358	350	327	336
505:	368	350	367	387	373	359	412	384
513:	335	288	357	343	302	321	323	316
521:	329	307	335	343	337	306	349	303
529:	313	321	297	286	305	309	303	269
537:	306	300	322	304	302	314	307	292
545:	279	288	272	312	303	285	303	298
553:	264	304	284	305	277	275	273	292
561:	255	275	306	273	301	312	313	311
569:	283	296	248	269	318	242	301	271
577:	233	266	254	272	280	284	299	304
585:	289	261	276	242	298	290	286	265
593:	275	286	265	277	261	253	239	268
601:	270	271	235	264	258	259	253	252
609:	295	269	250	239	246	260	279	277
617:	256	280	253	253	274	263	273	259
625:	252	273	255	248	261	262	247	249
633:	245	257	242	254	238	241	241	249
641:	274	255	249	267	250	235	263	289
649:	266	253	313	259	286	237	258	288
657:	268	282	301	1664	12589	14503	2554	275
665:	246	219	218	228	202	240	213	251
673:	216	226	230	243	247	252	228	235
681:	235	238	250	231	202	215	214	222
689:	244	204	226	215	244	221	219	226
697:	254	249	219	228	236	263	224	233
705:	237	263	212	211	217	240	215	217
713:	226	220	212	227	213	228	244	206
721:	239	229	265	243	237	212	234	245
729:	240	241	237	244	246	216	225	222
737:	225	217	235	229	228	237	233	264
745:	270	248	224	244	242	242	215	236
753:	259	231	229	264	259	243	221	214
761:	246	231	242	235	227	235	232	246
769:	250	244	247	211	220	203	236	251
777:	261	246	252	260	220	234	247	255
785:	227	241	268	232	240	253	273	265
793:	228	244	225	234	251	259	254	239

801:	231	275	265	237	236	244	254	270

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Channel								
809:	266	274	257	240	242	219	227	272
817:	266	288	251	280	283	278	264	281
825:	251	226	260	263	286	257	244	262
833:	258	249	259	265	273	282	278	263
841:	256	242	260	294	259	272	285	277
849:	279	257	257	251	286	274	289	268
857:	279	260	287	259	250	282	253	314
865:	295	276	281	306	267	278	289	289
873:	281	345	314	252	262	272	299	326
881:	291	323	284	311	266	305	298	310
889:	252	291	308	305	298	296	336	326
897:	474	639	437	329	308	312	311	339
905:	297	309	329	314	333	328	358	336
913:	299	344	344	322	328	328	325	333
921:	308	330	351	364	332	354	353	339
929:	328	323	312	348	357	380	352	352
937:	358	366	342	325	355	334	360	356
945:	335	338	353	377	315	383	333	355
953:	322	374	357	335	338	339	342	345
961:	336	345	368	313	315	325	289	273
969:	268	307	282	303	279	296	276	274
977:	273	224	272	279	267	269	257	254
985:	298	263	282	275	294	273	288	265
993:	261	246	294	247	255	284	256	247
1001:	263	257	246	268	272	240	247	256
1009:	227	239	260	258	241	254	262	263
1017:	242	256	236	230	248	274	257	241
1025:	251	256	254	264	238	263	272	220
1033:	254	240	258	223	267	224	206	259
1041:	228	248	244	215	224	235	246	248
1049:	235	237	226	234	211	229	215	239
1057:	263	246	238	257	211	230	229	212
1065:	252	241	233	211	224	224	217	247
1073:	247	255	241	232	222	249	218	227
1081:	198	222	206	226	248	199	237	236
1089:	226	227	255	207	216	202	225	231
1097:	239	247	246	244	241	243	252	221
1105:	223	203	201	210	238	259	244	245
1113:	225	237	216	208	237	187	178	186
1121:	182	151	171	177	157	159	144	191
1129:	152	152	144	133	168	120	156	150
1137:	138	141	152	147	145	146	143	153
1145:	125	116	131	140	137	124	133	138
1153:	133	135	122	146	131	129	121	117
1161:	133	141	141	133	148	141	119	151
1169:	154	181	933	6224	13155	7309	1221	160
1177:	100	93	93	101	108	86	102	101
1185:	97	96	87	76	85	91	74	75
1193:	92	86	88	77	82	81	71	72
1201:	77	77	59	79	74	69	80	71
1209:	59	40	76	67	59	53	56	56
1217:	53	54	52	51	54	55	44	50
1225:	45	35	61	46	42	43	39	48

1233:	44	56	38	40	45	33	38	36

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Channel								
1241:	25	42	43	28	39	26	42	40
1249:	29	30	34	34	36	34	41	27
1257:	23	28	36	32	22	33	25	30
1265:	29	20	30	32	26	36	35	40
1273:	38	29	44	37	26	28	24	39
1281:	31	30	29	17	39	22	28	28
1289:	23	24	37	29	28	23	28	30
1297:	23	35	37	30	38	19	23	30
1305:	38	25	27	24	29	34	31	22
1313:	35	36	27	23	26	27	29	30
1321:	36	35	42	38	39	31	27	48
1329:	65	558	4226	10668	8308	2003	166	20
1337:	17	22	16	17	18	19	21	22
1345:	25	16	23	7	15	20	19	19
1353:	16	23	12	16	12	13	16	10
1361:	13	13	15	12	15	18	11	14
1369:	11	12	13	12	18	13	19	9
1377:	18	16	3	10	15	6	12	15
1385:	15	26	16	7	10	13	13	16
1393:	19	12	12	20	16	15	18	17
1401:	19	21	12	13	13	7	21	15
1409:	16	11	14	11	10	13	10	10
1417:	8	15	8	17	15	12	13	16
1425:	17	14	10	10	13	12	20	14
1433:	16	10	9	18	12	6	11	9
1441:	8	8	12	10	10	12	10	14
1449:	6	12	21	8	15	15	12	9
1457:	10	9	19	15	16	21	10	9
1465:	13	12	19	16	7	11	16	14
1473:	9	12	13	15	13	11	8	12
1481:	11	12	12	13	12	11	16	10
1489:	13	12	10	13	10	17	11	10
1497:	13	18	14	15	9	7	9	13
1505:	10	6	12	9	17	10	13	16
1513:	10	14	20	13	14	14	11	13
1521:	10	13	7	12	10	9	10	12
1529:	13	12	17	9	16	10	11	9
1537:	11	7	9	6	9	8	11	10
1545:	11	14	6	11	10	14	17	12
1553:	15	21	13	7	12	8	2	13
1561:	14	13	9	13	10	15	19	8
1569:	7	10	8	5	10	12	10	6
1577:	12	9	7	10	10	9	11	16
1585:	6	15	17	12	14	13	8	13
1593:	10	14	11	13	4	12	16	11
1601:	19	9	10	8	7	9	10	10
1609:	15	6	12	11	8	10	14	5
1617:	4	20	8	9	10	7	7	14
1625:	7	6	9	8	8	7	14	10
1633:	15	7	14	6	6	8	6	5
1641:	7	6	18	9	9	8	7	7
1649:	9	14	14	11	9	9	6	8
1657:	2	4	5	4	7	7	8	7

1665:	13	14	13	8	5	13	8	11

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Channel								
1673:	11	8	5	8	6	9	5	9
1681:	7	3	7	9	10	11	6	5
1689:	6	8	5	12	8	6	7	6
1697:	4	12	7	6	4	7	5	7
1705:	10	8	6	7	13	11	3	14
1713:	14	11	10	9	6	7	7	4
1721:	5	12	5	5	3	9	7	4
1729:	14	7	8	14	7	11	9	7
1737:	9	13	3	7	4	10	11	6
1745:	5	6	8	13	11	8	8	2
1753:	3	6	10	6	5	1	6	6
1761:	8	11	10	17	17	12	5	7
1769:	11	4	7	5	7	2	5	10
1777:	5	4	7	7	7	3	4	6
1785:	9	9	7	6	4	6	5	8
1793:	8	15	4	9	8	6	6	3
1801:	12	5	8	14	5	2	6	7
1809:	8	6	2	4	5	11	4	7
1817:	4	6	9	7	5	9	4	6
1825:	4	8	9	6	9	4	2	5
1833:	21	64	126	160	87	22	11	6
1841:	6	4	6	6	6	5	4	10
1849:	4	6	6	12	7	7	3	6
1857:	4	12	7	8	7	3	8	7
1865:	5	5	4	10	9	6	11	6
1873:	2	6	14	4	7	7	5	3
1881:	2	5	4	6	5	5	2	10
1889:	5	9	6	5	5	6	5	4
1897:	8	7	9	2	5	5	6	3
1905:	6	5	9	2	4	7	10	7
1913:	6	7	6	4	3	10	4	8
1921:	4	2	7	4	2	9	5	4
1929:	2	8	5	6	9	7	3	4
1937:	0	6	4	5	3	4	6	5
1945:	6	6	0	7	7	10	4	4
1953:	8	6	6	9	4	5	4	6
1961:	1	5	10	3	3	5	5	3
1969:	7	6	5	6	7	6	6	5
1977:	8	7	7	3	2	5	4	5
1985:	6	4	4	2	6	5	4	4
1993:	1	5	3	5	3	3	2	4
2001:	4	9	7	8	9	5	13	4
2009:	2	6	2	5	4	5	9	9
2017:	4	4	7	5	5	8	5	3
2025:	9	6	7	3	4	7	2	9
2033:	0	3	3	3	6	5	8	6
2041:	7	5	8	13	8	5	5	3
2049:	5	8	11	4	7	6	7	5
2057:	3	5	3	7	6	5	1	5
2065:	6	6	7	5	7	6	6	6
2073:	5	5	5	10	7	4	2	5
2081:	6	5	4	1	2	9	3	2
2089:	3	6	6	8	5	7	4	3

2097:	1	5	6	4	9	7	10	6

Sample Title: GAS-1302

Channel								
2105:	7	2	4	3	4	7	4	9
2113:	4	4	6	6	6	4	8	7
2121:	3	3	3	6	10	5	5	6
2129:	7	8	6	3	1	6	3	5
2137:	5	7	0	5	6	6	6	5
2145:	3	4	2	8	4	3	3	5
2153:	5	5	12	4	5	6	3	9
2161:	1	5	1	9	9	2	5	5
2169:	6	8	6	4	3	5	4	7
2177:	2	4	3	2	4	6	6	3
2185:	1	4	4	8	2	6	4	2
2193:	3	5	11	2	5	7	5	4
2201:	8	7	2	5	6	4	3	3
2209:	4	4	3	3	8	2	3	6
2217:	3	3	6	3	5	3	7	1
2225:	6	6	3	5	3	4	3	4
2233:	2	5	5	5	4	10	7	5
2241:	1	10	6	4	2	12	3	6
2249:	8	2	6	1	8	4	5	2
2257:	7	8	2	5	6	5	5	1
2265:	2	7	4	3	4	4	3	4
2273:	5	4	1	3	10	3	1	9
2281:	3	2	8	5	7	4	3	3
2289:	7	9	5	5	5	2	3	5
2297:	3	8	7	5	3	3	3	5
2305:	3	5	3	5	1	4	5	2
2313:	1	1	2	3	10	3	5	3
2321:	2	3	4	3	4	3	1	3
2329:	8	3	7	4	2	3	1	1
2337:	5	5	2	2	3	3	2	2
2345:	5	1	1	6	3	1	4	4
2353:	5	5	4	2	2	2	2	7
2361:	1	5	1	0	2	1	1	2
2369:	1	3	3	1	1	1	2	3
2377:	1	2	3	1	5	0	2	3
2385:	0	1	3	1	0	3	4	0
2393:	1	1	0	0	1	0	3	0
2401:	2	0	1	2	0	3	1	0
2409:	3	1	0	0	2	0	0	1
2417:	1	0	0	0	1	1	3	1
2425:	0	2	0	0	0	0	0	0
2433:	0	2	0	0	1	0	0	0
2441:	1	0	0	2	0	0	1	1
2449:	3	1	1	2	1	0	2	2
2457:	0	0	2	1	0	3	0	1
2465:	0	1	1	0	0	1	0	1
2473:	0	1	3	0	0	2	0	0
2481:	0	0	1	1	0	2	0	0
2489:	1	0	0	0	2	0	0	0
2497:	2	0	0	0	4	6	28	66
2505:	104	72	20	3	0	0	0	0
2513:	1	1	0	1	0	0	1	1
2521:	0	1	1	0	0	0	0	1

2529:	0	0	1	0	0	0	0	0

Sample Title: GAS-1302

Channel								
2537:	0	1	0	1	0	1	0	0
2545:	2	1	0	0	0	0	0	1
2553:	0	0	3	0	0	0	0	1
2561:	1	0	0	0	1	0	1	2
2569:	1	0	0	0	1	0	0	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	1	1	0	0	0	0
2593:	0	0	1	0	1	0	0	0
2601:	0	1	0	0	0	0	0	1
2609:	0	1	0	4	8	10	4	2
2617:	1	0	0	2	0	0	0	0
2625:	0	0	0	0	0	1	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	1	0	0	0	0
2649:	1	0	0	0	0	0	0	0
2657:	1	1	0	0	0	0	0	0
2665:	0	0	1	0	0	0	0	0
2673:	0	0	0	0	1	1	0	1
2681:	0	1	0	0	0	0	0	1
2689:	0	0	0	0	0	1	0	0
2697:	0	0	0	0	0	1	1	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	1	0	0	0	0
2721:	1	0	0	0	0	0	0	0
2729:	0	0	2	1	1	1	2	0
2737:	1	0	0	0	0	0	1	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	1	0	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	1	0	0	0	1	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	2	0	0	0	0
2841:	0	0	0	0	0	0	1	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	1	0	0	0	1	0
2865:	1	0	0	1	0	0	1	0
2873:	0	0	1	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	1	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	1	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	1	0

Sample Title: GAS-1302

Channel								
2969:	1	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	1	0	0	0	0	0	1
2993:	0	0	0	1	0	0	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	0	0	1	0	1	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	1	0
3049:	0	1	1	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	2	0	0	1	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	1	1	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	2	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	1	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	1	0	1	0	0
3249:	0	1	1	0	0	0	0	0
3257:	0	0	0	0	1	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	1	0	0	0	0	0	0	0
3297:	1	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	1	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	1	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	1	0	0	1	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

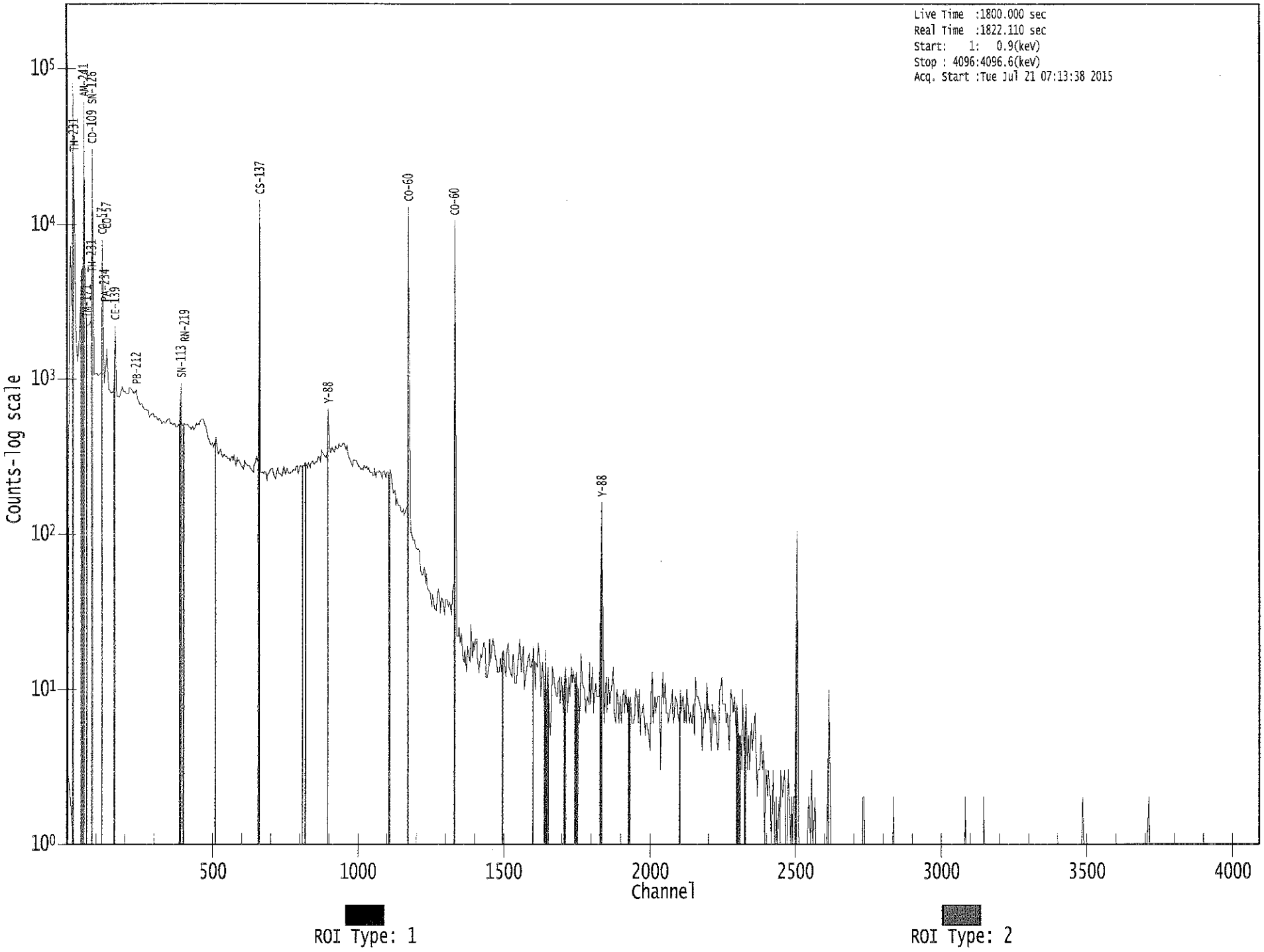
Channel								
3401:	1	0	0	0	0	1	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	1	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	1	0	0	0	0	0	0
3473:	1	0	0	0	0	0	0	0
3481:	0	0	1	0	2	0	0	0
3489:	0	1	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	1
3529:	0	1	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	1	0
3561:	0	0	0	1	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	0	0
3633:	1	0	0	0	0	0	1	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	1	0	0	0	0
3681:	0	0	0	0	0	0	0	1
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	0	2
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	1	0	0
3761:	0	0	0	0	0	1	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	1	0	0	0	1
3793:	0	0	0	0	1	0	0	0
3801:	0	0	0	1	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	1

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	1
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	0	0	0	0	1	0	0	0
3873:	0	0	1	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	1	0	1	0
3897:	0	0	0	0	0	0	0	0
3905:	0	1	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	1	0	0	0	0	0	0	0
3929:	0	0	1	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	1	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	1	0	0
4001:	1	0	0	0	0	0	0	0
4009:	0	0	0	0	1	0	0	0
4017:	0	0	0	0	1	0	0	1
4025:	0	0	0	0	0	1	0	0
4033:	0	0	1	0	0	1	0	0
4041:	0	0	1	1	0	0	0	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	1	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000024886.CNF



Apex-Gamma

Analysis Report for 1506114-02
BLANK

7/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 7/21/2015 5:13:32AM
Acquisition Started	: 7/21/2015 8:18:10AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3612.9 seconds
Dead Time	: 0.36 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24893

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

: 00411

Analysis Report for 1506114-02

BLANK

PEAK LOCATE REPORT

Peak Locate Performed on : 7/21/2015 9:18:24AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	22.75	22.99	0.0000	0.00
2	204.65	204.79	0.0000	0.00
3	239.71	239.84	0.0000	0.00
4	251.07	251.19	0.0000	0.00
5	318.40	318.49	0.0000	0.00
6	339.27	339.35	0.0000	0.00
7	577.75	577.71	0.0000	0.00
8	646.38	646.31	0.0000	0.00
9	649.97	649.90	0.0000	0.00
10	819.43	819.28	0.0000	0.00
11	833.66	833.50	0.0000	0.00
12	856.25	856.08	0.0000	0.00
13	877.54	877.36	0.0000	0.00
14	945.50	945.29	0.0000	0.00
15	1072.97	1072.71	0.0000	0.00
16	1086.61	1086.34	0.0000	0.00
17	1120.58	1120.29	0.0000	0.00
18	1184.06	1183.75	0.0000	0.00
19	1348.69	1348.31	0.0000	0.00
20	1409.03	1408.63	0.0000	0.00
21	1480.63	1480.20	0.0000	0.00
22	1628.73	1628.25	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-02

BLANK

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 9:18:24AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	22.75	18 -	28	22.99	1.03E+02	66.50	5.39E+02	2.70
	2	204.65	202 -	209	204.79	2.00E+01	23.66	8.00E+01	3.86
	3	239.71	236 -	244	239.84	4.60E+01	29.29	1.04E+02	5.40
	4	251.07	245 -	259	251.19	3.18E+01	37.32	1.26E+02	11.61
	5	318.40	316 -	321	318.49	1.70E+01	18.38	5.40E+01	1.25
	6	339.27	336 -	343	339.35	2.08E+01	17.32	3.64E+01	2.30
	7	577.75	574 -	581	577.71	1.10E+01	9.59	8.00E+00	2.38
M	8	646.38	645 -	652	646.31	6.57E+00	5.94	8.54E+00	3.05
m	9	649.97	645 -	652	649.90	1.42E+01	11.00	1.41E+01	2.65
	10	819.43	815 -	821	819.28	7.50E+00	8.28	7.00E+00	1.78
	11	833.66	830 -	836	833.50	6.60E+00	8.03	6.80E+00	2.95
	12	856.25	853 -	859	856.08	1.25E+01	8.26	3.00E+00	3.55
	13	877.54	874 -	881	877.36	9.82E+00	10.20	8.36E+00	1.97
	14	945.50	942 -	948	945.29	5.50E+00	7.78	7.00E+00	3.49
	15	1072.97	1069 -	1076	1072.71	7.28E+00	7.21	3.44E+00	5.49
	16	1086.61	1083 -	1089	1086.34	1.12E+01	8.02	3.62E+00	4.44
	17	1120.58	1116 -	1123	1120.29	6.00E+00	6.93	4.00E+00	1.88
	18	1184.06	1181 -	1186	1183.75	5.00E+00	7.07	6.00E+00	2.25
	19	1348.69	1345 -	1351	1348.31	5.50E+00	7.78	7.00E+00	2.13
	20	1409.03	1404 -	1412	1408.63	8.00E+00	5.66	0.00E+00	1.98
	21	1480.63	1477 -	1482	1480.20	5.00E+00	4.47	0.00E+00	2.31
	22	1628.73	1624 -	1631	1628.25	8.00E+00	5.66	0.00E+00	3.25

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 9:18:24AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1506114-02

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	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	22.75	18 -	28	1.03E+02	66.50	5.39E+02	5.21E+01
	2	204.65	202 -	209	2.00E+01	23.66	8.00E+01	1.80E+01
	3	239.71	236 -	244	4.60E+01	29.29	1.04E+02	2.13E+01
	4	251.07	245 -	259	3.18E+01	37.32	1.26E+02	2.92E+01
	5	318.40	316 -	321	1.70E+01	18.38	5.40E+01	1.35E+01
	6	339.27	336 -	343	2.08E+01	17.32	3.64E+01	1.21E+01
	7	577.75	574 -	581	1.10E+01	9.59	8.00E+00	5.70E+00
M	8	646.38	645 -	652	6.57E+00	5.94	8.54E+00	4.80E+00
m	9	649.97	645 -	652	1.42E+01	11.00	1.41E+01	6.18E+00
	10	819.43	815 -	821	7.50E+00	8.28	7.00E+00	5.10E+00
	11	833.66	830 -	836	6.60E+00	8.03	6.80E+00	5.07E+00
	12	856.25	853 -	859	1.25E+01	8.26	3.00E+00	3.51E+00
	13	877.54	874 -	881	9.82E+00	10.20	8.36E+00	6.61E+00
	14	945.50	942 -	948	5.50E+00	7.78	7.00E+00	5.10E+00
	15	1072.97	1069 -	1076	7.28E+00	7.21	3.44E+00	3.93E+00
	16	1086.61	1083 -	1089	1.12E+01	8.02	3.62E+00	3.63E+00
	17	1120.58	1116 -	1123	6.00E+00	6.93	4.00E+00	4.03E+00
	18	1184.06	1181 -	1186	5.00E+00	7.07	6.00E+00	4.50E+00
	19	1348.69	1345 -	1351	5.50E+00	7.78	7.00E+00	5.10E+00
	20	1409.03	1404 -	1412	8.00E+00	5.66	0.00E+00	0.00E+00
	21	1480.63	1477 -	1482	5.00E+00	4.47	0.00E+00	0.00E+00
	22	1628.73	1624 -	1631	8.00E+00	5.66	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/21/2015 9:18:24AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide

Analysis Report for 1506114-02

BLANK

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	22.75	18 -	28	22.99	1.03E+02	66.50	5.39E+02	.....
	2	204.65	202 -	209	204.79	2.00E+01	23.66	8.00E+01	U-235
	3	239.71	236 -	244	239.84	4.60E+01	29.29	1.04E+02	.....
	4	251.07	245 -	259	251.19	3.18E+01	37.32	1.26E+02	.....
	5	318.40	316 -	321	318.49	1.70E+01	18.38	5.40E+01	.....
	6	339.27	336 -	343	339.35	2.08E+01	17.32	3.64E+01	AC-228
	7	577.75	574 -	581	577.71	1.10E+01	9.59	8.00E+00	.....
M	8	646.38	645 -	652	646.31	6.57E+00	5.94	8.54E+00	SB-124
m	9	649.97	645 -	652	649.90	1.42E+01	11.00	1.41E+01	.....
	10	819.43	815 -	821	819.28	7.50E+00	8.28	7.00E+00	CS-136
	11	833.66	830 -	836	833.50	6.60E+00	8.03	6.80E+00	.....
	12	856.25	853 -	859	856.08	1.25E+01	8.26	3.00E+00	.....
	13	877.54	874 -	881	877.36	9.82E+00	10.20	8.36E+00	.....
	14	945.50	942 -	948	945.29	5.50E+00	7.78	7.00E+00	PA-234
	15	1072.97	1069 -	1076	1072.71	7.28E+00	7.21	3.44E+00	.....
	16	1086.61	1083 -	1089	1086.34	1.12E+01	8.02	3.62E+00	EU-152
	17	1120.58	1116 -	1123	1120.29	6.00E+00	6.93	4.00E+00	SC-46 BI-214 TA-182
	18	1184.06	1181 -	1186	1183.75	5.00E+00	7.07	6.00E+00	.....
	19	1348.69	1345 -	1351	1348.31	5.50E+00	7.78	7.00E+00	.....
	20	1409.03	1404 -	1412	1408.63	8.00E+00	5.66	0.00E+00	.....
	21	1480.63	1477 -	1482	1480.20	5.00E+00	4.47	0.00E+00	.....
	22	1628.73	1624 -	1631	1628.25	8.00E+00	5.66	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/21/2015 9:18:24AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	22.75	1.03E+02	66.50	1.40E-03	1.58E-03
2	204.65	2.00E+01	23.66	1.71E-02	1.34E-03
3	239.71	4.60E+01	29.29	1.52E-02	1.18E-03
4	251.07	3.18E+01	37.32	1.46E-02	1.12E-03
5	318.40	1.70E+01	18.38	1.20E-02	9.41E-04
6	339.27	2.08E+01	17.32	1.14E-02	9.12E-04

Analysis Report for 1506114-02

BLANK

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	7	577.75	1.10E+01	9.59	7.20E-03	6.52E-04
M	8	646.38	6.57E+00	5.94	6.53E-03	5.83E-04
m	9	649.97	1.42E+01	11.00	6.50E-03	5.79E-04
	10	819.43	7.50E+00	8.28	5.31E-03	4.39E-04
	11	833.66	6.60E+00	8.03	5.24E-03	4.27E-04
	12	856.25	1.25E+01	8.26	5.12E-03	4.09E-04
	13	877.54	9.82E+00	10.20	5.01E-03	3.91E-04
	14	945.50	5.50E+00	7.78	4.70E-03	3.66E-04
	15	1072.97	7.28E+00	7.21	4.23E-03	3.42E-04
	16	1086.61	1.12E+01	8.02	4.18E-03	3.40E-04
	17	1120.58	6.00E+00	6.93	4.08E-03	3.33E-04
	18	1184.06	5.00E+00	7.07	3.89E-03	3.21E-04
	19	1348.69	5.50E+00	7.78	3.51E-03	2.86E-04
	20	1409.03	8.00E+00	5.66	3.39E-03	2.77E-04
	21	1480.63	5.00E+00	4.47	3.26E-03	2.66E-04
	22	1628.73	8.00E+00	5.66	3.03E-03	2.44E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/21/2015 9:18:24AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	22.75	1.03E+02	66.50	1.04E+01	1.33E+01	9.23E+01	6.78E+01
	2	204.65	2.00E+01	23.66			2.00E+01	2.37E+01
	3	239.71	4.60E+01	29.29	1.57E+01	4.91E+00	3.03E+01	2.97E+01
	4	251.07	3.18E+01	37.32			3.18E+01	3.73E+01
	5	318.40	1.70E+01	18.38			1.70E+01	1.84E+01
	6	339.27	2.08E+01	17.32			2.08E+01	1.73E+01
	7	577.75	1.10E+01	9.59			1.10E+01	9.59E+00
M	8	646.38	6.57E+00	5.94			6.57E+00	5.94E+00
m	9	649.97	1.42E+01	11.00			1.42E+01	1.10E+01
	10	819.43	7.50E+00	8.28			7.50E+00	8.28E+00
	11	833.66	6.60E+00	8.03			6.60E+00	8.03E+00
	12	856.25	1.25E+01	8.26			1.25E+01	8.26E+00
	13	877.54	9.82E+00	10.20			9.82E+00	1.02E+01
	14	945.50	5.50E+00	7.78			5.50E+00	7.78E+00

Analysis Report for 1506114-02

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Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
15	1072.97	7.28E+00	7.21			7.28E+00	7.21E+00
16	1086.61	1.12E+01	8.02			1.12E+01	8.02E+00
17	1120.58	6.00E+00	6.93			6.00E+00	6.93E+00
18	1184.06	5.00E+00	7.07			5.00E+00	7.07E+00
19	1348.69	5.50E+00	7.78			5.50E+00	7.78E+00
20	1409.03	8.00E+00	5.66			8.00E+00	5.66E+00
21	1480.63	5.00E+00	4.47			5.00E+00	4.47E+00
22	1628.73	8.00E+00	5.66			8.00E+00	5.66E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/21/2015 9:18:24AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	22.75	1.03E+02	66.50	1.04E+01	1.33E+01	9.23E+01	6.78E+01
	2	204.65	2.00E+01	23.66			2.00E+01	2.37E+01
	3	239.71	4.60E+01	29.29	1.57E+01	4.91E+00	3.03E+01	2.97E+01
	4	251.07	3.18E+01	37.32			3.18E+01	3.73E+01
	5	318.40	1.70E+01	18.38			1.70E+01	1.84E+01
	6	339.27	2.08E+01	17.32			2.08E+01	1.73E+01
	7	577.75	1.10E+01	9.59			1.10E+01	9.59E+00
M	8	646.38	6.57E+00	5.94			6.57E+00	5.94E+00
m	9	649.97	1.42E+01	11.00			1.42E+01	1.10E+01
	10	819.43	7.50E+00	8.28			7.50E+00	8.28E+00
	11	833.66	6.60E+00	8.03			6.60E+00	8.03E+00
	12	856.25	1.25E+01	8.26			1.25E+01	8.26E+00
	13	877.54	9.82E+00	10.20			9.82E+00	1.02E+01
	14	945.50	5.50E+00	7.78			5.50E+00	7.78E+00
	15	1072.97	7.28E+00	7.21			7.28E+00	7.21E+00
	16	1086.61	1.12E+01	8.02			1.12E+01	8.02E+00
	17	1120.58	6.00E+00	6.93			6.00E+00	6.93E+00
	18	1184.06	5.00E+00	7.07			5.00E+00	7.07E+00
	19	1348.69	5.50E+00	7.78			5.50E+00	7.78E+00
	20	1409.03	8.00E+00	5.66			8.00E+00	5.66E+00

Analysis Report for 1506114-02

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Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
21	1480.63	5.00E+00	4.47			5.00E+00	4.47E+00
22	1628.73	8.00E+00	5.66			8.00E+00	5.66E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty
			*	?	
			*	?	

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 9:18:24AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	22.75	2.56323E-02	36.75		
2	204.65	5.55556E-03	59.16	Tol.	U-235
3	239.71	8.41609E-03	49.01		

Analysis Report for 1506114-02

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	4	251.07	8.82749E-03	58.71		
	5	318.40	4.72222E-03	54.07		
	6	339.27	5.77279E-03	41.67	Tol.	AC-228
	7	577.75	3.05556E-03	43.60		
M	8	646.38	1.82597E-03	45.16	Tol.	SB-124
m	9	649.97	3.94723E-03	38.71		
	10	819.43	2.08333E-03	55.18	Tol.	CS-136
	11	833.66	1.83333E-03	60.84		
	12	856.25	3.47222E-03	33.05		
	13	877.54	2.72817E-03	51.92		
	14	945.50	1.52778E-03	70.71	Tol.	PA-234
	15	1072.97	2.02160E-03	49.54		
	16	1086.61	3.10897E-03	35.81	Tol.	EU-152
	17	1120.58	1.66667E-03	57.74	Tol.	SC-46 TA-182 BI-214
	18	1184.06	1.38889E-03	70.71		
	19	1348.69	1.52778E-03	70.71		
	20	1409.03	2.22222E-03	35.36		
	21	1480.63	1.38889E-03	44.72		
	22	1628.73	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty

Analysis Report for 1506114-02

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* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 9:18:24AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	22.75	2.56323E-02	36.75		
	2	204.65	5.55556E-03	59.16	Tol.	U-235
	3	239.71	8.41609E-03	49.01		
	4	251.07	8.82749E-03	58.71		
	5	318.40	4.72222E-03	54.07		
	6	339.27	5.77279E-03	41.67	Tol.	AC-228
	7	577.75	3.05556E-03	43.60		
M	8	646.38	1.82597E-03	45.16	Tol.	SB-124
m	9	649.97	3.94723E-03	38.71		
	10	819.43	2.08333E-03	55.18	Tol.	CS-136
	11	833.66	1.83333E-03	60.84		
	12	856.25	3.47222E-03	33.05		
	13	877.54	2.72817E-03	51.92		
	14	945.50	1.52778E-03	70.71	Tol.	PA-234
	15	1072.97	2.02160E-03	49.54		
	16	1086.61	3.10897E-03	35.81	Tol.	EU-152
	17	1120.58	1.66667E-03	57.74	Tol.	SC-46 TA-182 BI-214
	18	1184.06	1.38889E-03	70.71		
	19	1348.69	1.52778E-03	70.71		
	20	1409.03	2.22222E-03	35.36		
	21	1480.63	1.38889E-03	44.72		
	22	1628.73	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-02

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	7.63E-02	2.87E-01	2.87E-01
+	NA-22	1274.54	99.94	7.84E-03	3.43E-02	3.43E-02
+	NA-24	1368.53	99.99	-2.35E-02	1.40E-02	4.28E-02
		2754.09	99.86	0.00E+00		1.40E-02
+	AL-26	1808.65	99.76	0.00E+00	3.68E-02	3.68E-02
+	K-40	1460.81	10.67	1.91E-01	4.10E-01	4.10E-01
+	AR-41	1293.64	99.16	-8.59E-03	1.45E-01	1.45E-01
+	TI-44	67.88	94.40	-1.71E-02	1.68E-02	1.73E-02
		78.34	96.00	-4.70E-03		1.68E-02
+	SC-46	889.25	99.98	-6.67E-03	3.23E-02	3.23E-02
		1120.51	99.99	1.53E-02		3.73E-02
+	V-48	983.52	99.98	-9.55E-03	2.56E-02	2.99E-02
		1312.10	97.50	5.52E-03		2.56E-02
+	CR-51	320.08	9.83	5.31E-03	2.83E-01	2.83E-01
+	MN-54	834.83	99.97	0.00E+00	3.57E-02	3.57E-02
+	CO-56	846.75	99.96	2.60E-02	3.96E-02	3.96E-02
		1037.75	14.03	-9.70E-02		2.22E-01
		1238.25	67.00	9.54E-03		5.38E-02
		1771.40	15.51	0.00E+00		5.87E-02
		2598.48	16.90	0.00E+00		2.72E-01
+	CO-57	122.06	85.51	-1.29E-02	1.70E-02	1.70E-02
		136.48	10.60	-3.77E-02		1.60E-01
+	CO-58	810.76	99.40	4.50E-03	2.70E-02	2.70E-02
+	FE-59	1099.22	56.50	-8.21E-03	6.16E-02	6.16E-02
		1291.56	43.20	9.19E-03		8.64E-02
+	CO-60	1173.22	100.00	1.83E-03	3.44E-02	3.44E-02
		1332.49	100.00	2.31E-02		5.27E-02
+	ZN-65	1115.52	50.75	-1.85E-02	4.97E-02	4.97E-02
+	GA-67	93.31	35.70	6.86E-02	6.14E-02	6.14E-02
		208.95	2.24	-1.57E-01		8.71E-01
		300.22	16.00	-3.18E-02		1.62E-01
+	SE-75	121.11	16.70	-3.97E-02	2.81E-02	8.93E-02
		136.00	59.20	-1.03E-02		2.81E-02
		264.65	59.80	2.17E-02		3.96E-02
		279.53	25.20	-5.11E-02		8.91E-02
		400.65	11.40	6.30E-02		2.54E-01
+	RB-82	776.52	13.00	-9.75E-02	1.88E-01	1.88E-01
+	RB-83	520.41	46.00	1.48E-03	5.79E-02	5.79E-02
		529.64	30.30	-3.69E-03		9.80E-02
		552.65	16.40	-9.38E-03		1.84E-01
+	KR-85	513.99	0.43	6.31E+00	1.03E+01	1.03E+01
+	SR-85	513.99	99.27	2.76E-02	4.51E-02	4.51E-02

Analysis Report for 1506114-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	Y-88	898.02	93.40	5.23E-04	2.51E-02	2.51E-02
		1836.01	99.38	3.47E-03		4.17E-02
+	NB-93M	16.57	9.43	-6.80E+00	3.48E+01	3.48E+01
+	NB-94	702.63	100.00	-8.93E-03	3.08E-02	3.08E-02
		871.10	100.00	2.06E-03		3.82E-02
+	NB-95	765.79	99.81	-8.91E-03	2.57E-02	2.57E-02
+	NB-95M	235.69	25.00	1.90E-02	1.09E-01	1.09E-01
+	ZR-95	724.18	43.70	-5.31E-04	5.08E-02	7.47E-02
		756.72	55.30	-1.15E-02		5.08E-02
+	MO-99	181.06	6.20	5.99E-02	2.61E-01	2.98E-01
		739.58	12.80	-4.58E-02		2.61E-01
		778.00	4.50	-1.65E-01		7.22E-01
+	RU-103	497.08	89.00	-2.26E-03	2.65E-02	2.65E-02
+	RU-106	621.84	9.80	-2.07E-03	2.91E-01	2.91E-01
+	AG-108M	433.93	89.90	-2.47E-04	3.15E-02	3.15E-02
		614.37	90.40	-2.13E-02		3.57E-02
		722.95	90.50	-1.64E-02		3.37E-02
+	CD-109	88.03	3.72	-8.15E-02	4.84E-01	4.84E-01
+	AG-110M	657.75	93.14	-1.60E-02	3.32E-02	3.32E-02
		677.61	10.53	5.69E-02		3.26E-01
		706.67	16.46	7.40E-02		2.27E-01
		763.93	21.98	3.67E-02		1.35E-01
		884.67	71.63	9.08E-03		4.27E-02
		1384.27	23.94	1.28E-02		1.53E-01
+	CD-113M	263.70	0.02	2.30E+00	9.52E+01	9.52E+01
+	SN-113	255.12	1.93	7.41E-01	3.94E-02	1.16E+00
		391.69	64.90	-1.89E-02		3.94E-02
+	TE123M	159.00	84.10	1.20E-03	1.97E-02	1.97E-02
+	SB-124	602.71	97.87	9.93E-03	3.54E-02	3.54E-02
		645.85	7.26	4.05E-02		4.86E-01
		722.78	11.10	-1.34E-01		2.75E-01
		1691.02	49.00	4.43E-03		4.89E-02
+	I-125	35.49	6.49	2.45E-01	1.07E+00	1.07E+00
+	SB-125	176.33	6.89	-1.28E-01	8.22E-02	2.07E-01
		427.89	29.33	-4.45E-02		8.22E-02
		463.38	10.35	9.02E-02		2.99E-01
		600.56	17.80	-3.48E-02		1.82E-01
		635.90	11.32	-1.27E-01		2.57E-01
+	SB-126	414.70	83.30	1.18E-02	2.66E-02	3.30E-02
		666.33	99.60	-2.05E-02		2.66E-02
		695.00	99.60	-3.96E-03		3.28E-02
		720.50	53.80	7.56E-03		5.89E-02
+	SN-126	87.57	37.00	-8.20E-03	4.87E-02	4.87E-02
+	SB-127	473.00	25.00	-2.94E-02	8.94E-02	1.03E-01
		685.20	35.70	2.03E-02		8.94E-02
		783.80	14.70	7.49E-03		2.65E-01
+	I-129	29.78	57.00	2.92E-02	2.04E-01	2.04E-01
		33.60	13.20	5.70E-01		6.30E-01

Analysis Report for 1506114-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	I-129	39.58	7.52	-4.26E-02	2.04E-01	6.14E-01
+	I-131	284.30	6.05	5.67E-02	3.32E-02	4.16E-01
		364.48	81.20	1.45E-02		3.32E-02
		636.97	7.26	-2.09E-01		4.07E-01
		722.89	1.80	-8.35E-01		1.71E+00
+	TE-132	49.72	13.10	-2.98E-01	2.59E-02	2.06E-01
		228.16	88.00	-3.05E-03		2.59E-02
+	BA-133	81.00	33.00	-2.89E-02	4.41E-02	4.51E-02
		302.84	17.80	-6.71E-03		1.36E-01
		356.01	60.00	-1.04E-03		4.41E-02
+	I-133	529.87	86.30	-1.46E-03	3.87E-02	3.87E-02
+	CS-134	563.23	8.38	-2.41E-01	3.43E-02	2.93E-01
		569.32	15.43	4.06E-02		1.66E-01
		604.70	97.60	-1.07E-02		3.48E-02
		795.84	85.40	5.15E-03		3.43E-02
		801.93	8.73	-1.18E-01		2.66E-01
+	CS-135	268.24	16.00	1.12E-02	1.37E-01	1.37E-01
+	I-135	1131.51	22.50	2.55E-03	1.73E-01	2.16E-01
		1260.41	28.60	1.98E-02		1.73E-01
		1678.03	9.54	1.23E-02		5.92E-01
+	CS-136	153.22	7.46	7.55E-02	3.30E-02	2.31E-01
		163.89	4.61	1.39E-01		3.96E-01
		176.55	13.56	-2.28E-02		1.12E-01
		273.65	12.66	4.02E-02		1.82E-01
		340.57	48.50	2.08E-02		5.56E-02
		818.50	99.70	1.10E-02		3.30E-02
		1048.07	79.60	-2.82E-03		3.97E-02
		1235.34	19.70	6.52E-03		1.57E-01
+	CS-137	661.65	85.12	1.32E-02	3.95E-02	3.95E-02
+	LA-138	788.74	34.00	1.84E-02	6.53E-02	9.66E-02
		1435.80	66.00	-5.78E-02		6.53E-02
+	CE-139	165.85	80.35	5.69E-03	2.27E-02	2.27E-02
+	BA-140	162.64	6.70	3.89E-02	1.16E-01	2.62E-01
		304.84	4.50	1.50E-02		5.46E-01
		423.70	3.20	3.62E-01		8.46E-01
		437.55	2.00	-3.21E-01		1.42E+00
		537.32	25.00	4.51E-03		1.16E-01
+	LA-140	328.77	20.50	1.72E-04	4.64E-02	1.22E-01
		487.03	45.50	1.50E-03		6.23E-02
		815.85	23.50	0.00E+00		1.16E-01
		1596.49	95.49	1.48E-02		4.64E-02
+	CE-141	145.44	48.40	2.06E-02	3.70E-02	3.70E-02
+	CE-143	57.36	11.80	1.32E-01	6.20E-02	2.01E-01
		293.26	42.00	-2.56E-02		6.20E-02
		664.55	5.20	1.78E-01		6.65E-01
+	CE-144	133.54	10.80	9.00E-02	1.65E-01	1.65E-01
+	PM-144	476.78	42.00	1.52E-02	3.05E-02	7.21E-02
		618.01	98.60	-2.15E-03		3.05E-02
		696.49	99.49	-2.36E-03		3.36E-02

Analysis Report for 1506114-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-145	36.85	21.70	7.76E-02	1.44E-01	2.85E-01
		37.36	39.70	5.08E-03		1.44E-01
		42.30	15.10	-1.87E-01		2.45E-01
		72.40	2.31	2.06E-01		8.51E-01
+	PM-146	453.90	39.94	-2.83E-02	6.21E-02	6.21E-02
		735.90	14.01	1.53E-02		2.43E-01
		747.13	13.10	-6.36E-03		2.21E-01
+	ND-147	91.11	28.90	6.14E-02	7.64E-02	7.64E-02
		531.02	13.10	1.86E-02		2.34E-01
+	PM-149	285.90	3.10	-7.83E-03	8.26E-01	8.26E-01
+	EU-152	121.78	20.50	-5.36E-02	7.08E-02	7.08E-02
		244.69	5.40	2.71E-01		4.92E-01
		344.27	19.13	2.63E-02		1.29E-01
		778.89	9.20	1.27E-01		4.00E-01
		964.01	10.40	-1.10E-01		2.61E-01
		1085.78	7.22	1.37E-01		6.18E-01
		1112.02	9.60	6.61E-02		3.65E-01
		1407.95	14.94	1.10E-01		3.00E-01
+	GD-153	97.43	31.30	-9.49E-03	4.84E-02	4.84E-02
		103.18	22.20	6.52E-04		6.87E-02
+	EU-154	123.07	40.50	1.29E-02	3.90E-02	3.90E-02
		723.30	19.70	-7.53E-02		1.55E-01
		873.19	11.50	-2.84E-02		3.12E-01
		996.32	10.30	-1.03E-01		4.41E-01
		1004.76	17.90	-2.70E-02		1.90E-01
		1274.45	35.50	2.21E-02		9.65E-02
+	EU-155	86.50	30.90	1.52E-02	5.77E-02	5.77E-02
		105.30	20.70	2.31E-02		7.57E-02
+	EU-156	811.77	10.40	1.91E-02	2.27E-01	2.27E-01
		1153.47	7.20	8.98E-02		5.61E-01
		1230.71	8.90	1.53E-01		4.05E-01
+	HO-166M	184.41	72.60	2.68E-02	3.11E-02	3.11E-02
		280.45	29.60	-2.85E-02		7.69E-02
		410.94	11.10	-9.99E-03		2.32E-01
		711.69	54.10	7.38E-03		6.62E-02
+	TM-171	66.72	0.14	-1.80E+01	1.24E+01	1.24E+01
+	HF-172	81.75	4.52	-1.04E-01	1.30E-01	3.37E-01
		125.81	11.30	-4.13E-02		1.30E-01
+	LU-172	181.53	20.60	-7.16E-02	5.62E-02	8.88E-02
		810.06	16.63	1.82E-03		1.54E-01
		912.12	15.25	-4.73E-02		2.39E-01
		1093.66	62.50	-1.02E-02		5.62E-02
+	LU-173	100.72	5.24	-1.23E-01	1.05E-01	2.74E-01
		272.11	21.20	-2.82E-02		1.05E-01
+	HF-175	343.40	84.00	-4.89E-03	2.81E-02	2.81E-02
+	LU-176	88.34	13.30	-1.30E-01	2.36E-02	1.38E-01
		201.83	86.00	-4.42E-03		2.36E-02
		306.78	94.00	-3.65E-03		2.58E-02
+	TA-182	67.75	41.20	-3.93E-02	3.97E-02	3.97E-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TA-182	1121.30	34.90	3.90E-02	3.97E-02	1.01E-01
		1189.05	16.23	-1.90E-03		1.83E-01
		1221.41	26.98	4.21E-02		1.49E-01
		1231.02	11.44	-1.78E-01		2.06E-01
+	IR-192	308.46	29.68	-1.96E-02	4.92E-02	8.21E-02
		468.07	48.10	-1.44E-02		4.92E-02
+	HG-203	279.19	77.30	-6.76E-03	2.94E-02	2.94E-02
+	BI-207	569.67	97.72	1.41E-02	2.71E-02	2.71E-02
		1063.62	74.90	1.68E-02		5.45E-02
+	TL-208	583.14	30.22	2.92E-02	9.21E-02	9.21E-02
		860.37	4.48	7.80E-02		7.90E-01
		2614.66	35.85	2.19E-02		1.68E-01
+	BI-210M	262.00	45.00	7.85E-03	4.55E-02	4.55E-02
		300.00	23.00	-2.14E-02		1.09E-01
+	PB-210	46.50	4.25	4.68E-01	8.31E-01	8.31E-01
+	PB-211	404.84	2.90	1.72E-01	9.21E-01	9.21E-01
		831.96	2.90	1.89E-01		1.10E+00
+	BI-212	727.17	11.80	4.92E-03	2.77E-01	2.77E-01
		1620.62	2.75	-2.29E-01		1.06E+00
+	PB-212	238.63	44.60	2.97E-02	6.33E-02	6.33E-02
		300.09	3.41	-1.45E-01		7.38E-01
+	BI-214	609.31	46.30	1.56E-02	7.96E-02	7.96E-02
		1120.29	15.10	1.01E-01		2.47E-01
		1764.49	15.80	6.60E-02		2.99E-01
		2204.22	4.98	0.00E+00		2.11E-01
+	PB-214	295.21	19.19	4.37E-02	7.31E-02	1.36E-01
		351.92	37.19	6.13E-03		7.31E-02
+	RN-219	401.80	6.50	0.00E+00	4.27E-01	4.27E-01
+	RA-223	323.87	3.88	-5.60E-03	6.04E-01	6.04E-01
+	RA-224	240.98	3.95	3.47E-01	7.24E-01	7.24E-01
+	RA-225	40.00	31.00	-1.02E-02	1.46E-01	1.46E-01
+	RA-226	186.21	3.28	2.72E-01	6.70E-01	6.70E-01
+	TH-227	50.10	8.40	-4.45E-01	2.30E-01	3.07E-01
		236.00	11.50	4.01E-02		2.30E-01
		256.20	6.30	1.13E-01		3.40E-01
+	AC-228	338.32	11.40	-2.21E-02	1.39E-01	2.13E-01
		911.07	27.70	5.48E-03		1.39E-01
		969.11	16.60	-2.82E-02		1.77E-01
+	TH-230	48.44	16.90	4.64E-02	1.89E-01	1.89E-01
		62.85	4.60	1.64E-01		5.41E-01
		67.67	0.37	-4.37E+00		4.42E+00
+	PA-231	283.67	1.60	2.11E-01	1.05E+00	1.55E+00
		302.67	2.30	-5.19E-02		1.05E+00
+	TH-231	25.64	14.70	-1.00E+00	2.51E-01	1.60E+00
		84.21	6.40	0.00E+00		2.51E-01
+	PA-233	311.98	38.60	-8.14E-03	6.39E-02	6.39E-02
+	PA-234	131.20	20.40	4.14E-02	8.39E-02	8.39E-02
		733.99	8.80	1.53E-01		4.08E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	946.00	12.00	3.74E-02	8.39E-02	2.96E-01
+	PA-234M	1001.03	0.92	1.28E+00	4.82E+00	4.82E+00
+	TH-234	63.29	3.80	9.21E-01	6.56E-01	6.56E-01
+	U-235	143.76	10.50	4.40E-03	1.68E-01	1.68E-01
		163.35	4.70	1.35E-01		3.85E-01
		205.31	4.70	1.96E-01		4.49E-01
+	NP-237	86.50	12.60	3.73E-02	1.41E-01	1.41E-01
+	NP-239	106.10	22.70	2.06E-02	7.22E-02	7.22E-02
		228.18	10.70	-2.54E-02		2.15E-01
		277.60	14.10	3.12E-02		1.75E-01
+	AM-241	59.54	35.90	-8.44E-02	5.90E-02	5.90E-02
+	AM-243	74.67	66.00	1.17E-02	3.00E-02	3.00E-02
+	CM-243	209.75	3.29	5.83E-02	1.69E-01	5.82E-01
		228.14	10.60	-2.45E-02		2.08E-01
		277.60	14.00	3.01E-02		1.69E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	2.87E-01	2.87E-01	7.63E-02	1.29E-01
NA-22	1274.54	99.94	3.43E-02	3.43E-02	7.84E-03	1.36E-02
NA-24	1368.53	99.99	4.28E-02	1.40E-02	-2.35E-02	1.70E-02
	2754.09	99.86	1.40E-02		0.00E+00	0.00E+00
AL-26	1808.65	99.76	3.68E-02	3.68E-02	0.00E+00	1.38E-02
K-40	1460.81	10.67	4.10E-01	4.10E-01	1.91E-01	1.68E-01
AR-41	1293.64	99.16	1.45E-01	1.45E-01	-8.59E-03	5.87E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TI-44	67.88	94.40	1.73E-02	1.68E-02	-1.71E-02	8.03E-03
	78.34	96.00	1.68E-02		-4.70E-03	7.81E-03
SC-46	889.25	99.98	3.23E-02	3.23E-02	-6.67E-03	1.35E-02
	1120.51	99.99	3.73E-02		1.53E-02	1.55E-02
V-48	983.52	99.98	2.99E-02	2.56E-02	-9.55E-03	1.21E-02
	1312.10	97.50	2.56E-02		5.52E-03	9.08E-03
CR-51	320.08	9.83	2.83E-01	2.83E-01	5.31E-03	1.30E-01
MN-54	834.83	99.97	3.57E-02	3.57E-02	0.00E+00	1.54E-02
CO-56	846.75	99.96	3.96E-02	3.96E-02	2.60E-02	1.73E-02
	1037.75	14.03	2.22E-01		-9.70E-02	8.97E-02
	1238.25	67.00	5.38E-02		9.54E-03	2.17E-02
	1771.40	15.51	5.87E-02		0.00E+00	0.00E+00
	2598.48	16.90	2.72E-01		0.00E+00	1.02E-01
CO-57	122.06	85.51	1.70E-02	1.70E-02	-1.29E-02	7.84E-03
	136.48	10.60	1.60E-01		-3.77E-02	7.42E-02
CO-58	810.76	99.40	2.70E-02	2.70E-02	4.50E-03	1.11E-02
FE-59	1099.22	56.50	6.16E-02	6.16E-02	-8.21E-03	2.53E-02
	1291.56	43.20	8.64E-02		9.19E-03	3.49E-02
CO-60	1173.22	100.00	3.44E-02	3.44E-02	1.83E-03	1.39E-02
	1332.49	100.00	5.27E-02		2.31E-02	2.27E-02
ZN-65	1115.52	50.75	4.97E-02	4.97E-02	-1.85E-02	1.86E-02
GA-67	93.31	35.70	6.14E-02	6.14E-02	6.86E-02	2.92E-02
	208.95	2.24	8.71E-01		-1.57E-01	4.00E-01
	300.22	16.00	1.62E-01		-3.18E-02	7.46E-02
SE-75	121.11	16.70	8.93E-02	2.81E-02	-3.97E-02	4.13E-02
	136.00	59.20	2.81E-02		-1.03E-02	1.30E-02
	264.65	59.80	3.96E-02		2.17E-02	1.82E-02
	279.53	25.20	8.91E-02		-5.11E-02	4.07E-02
	400.65	11.40	2.54E-01		6.30E-02	1.15E-01
RB-82	776.52	13.00	1.88E-01	1.88E-01	-9.75E-02	7.58E-02
RB-83	520.41	46.00	5.79E-02	5.79E-02	1.48E-03	2.54E-02
	529.64	30.30	9.80E-02		-3.69E-03	4.35E-02
	552.65	16.40	1.84E-01		-9.38E-03	8.14E-02
KR-85	513.99	0.43	1.03E+01	1.03E+01	6.31E+00	4.78E+00
SR-85	513.99	99.27	4.51E-02	4.51E-02	2.76E-02	2.09E-02
Y-88	898.02	93.40	2.51E-02	2.51E-02	5.23E-04	9.73E-03
	1836.01	99.38	4.17E-02		3.47E-03	1.62E-02
NB-93M	16.57	9.43	3.48E+01	3.48E+01	-6.80E+00	1.66E+01
NB-94	702.63	100.00	3.08E-02	3.08E-02	-8.93E-03	1.32E-02
	871.10	100.00	3.82E-02		2.06E-03	1.65E-02
NB-95	765.79	99.81	2.57E-02	2.57E-02	-8.91E-03	1.05E-02
NB-95M	235.69	25.00	1.09E-01	1.09E-01	1.90E-02	5.10E-02
ZR-95	724.18	43.70	7.47E-02	5.08E-02	-5.31E-04	3.23E-02
	756.72	55.30	5.08E-02		-1.15E-02	2.13E-02
MO-99	181.06	6.20	2.98E-01	2.61E-01	5.99E-02	1.37E-01
	739.58	12.80	2.61E-01		-4.58E-02	1.12E-01
	778.00	4.50	7.22E-01		-1.65E-01	3.07E-01
RU-103	497.08	89.00	2.65E-02	2.65E-02	-2.26E-03	1.15E-02
RU-106	621.84	9.80	2.91E-01	2.91E-01	-2.07E-03	1.26E-01
AG-108M	433.93	89.90	3.15E-02	3.15E-02	-2.47E-04	1.42E-02
	614.37	90.40	3.57E-02		-2.13E-02	1.58E-02
	722.95	90.50	3.37E-02		-1.64E-02	1.44E-02
CD-109	88.03	3.72	4.84E-01	4.84E-01	-8.15E-02	2.28E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	657.75	93.14	3.32E-02	3.32E-02	-1.60E-02	1.44E-02
	677.61	10.53	3.26E-01		5.69E-02	1.43E-01
	706.67	16.46	2.27E-01		7.40E-02	1.00E-01
	763.93	21.98	1.35E-01		3.67E-02	5.68E-02
	884.67	71.63	4.27E-02		9.08E-03	1.77E-02
	1384.27	23.94	1.53E-01		1.28E-02	6.07E-02
CD-113M	263.70	0.02	9.52E+01	9.52E+01	2.30E+00	4.36E+01
SN-113	255.12	1.93	1.16E+00	3.94E-02	7.41E-01	5.31E-01
	391.69	64.90	3.94E-02		-1.89E-02	1.77E-02
TE123M	159.00	84.10	1.97E-02	1.97E-02	1.20E-03	9.09E-03
SB-124	602.71	97.87	3.54E-02	3.54E-02	9.93E-03	1.58E-02
	645.85	7.26	4.86E-01		4.05E-02	2.16E-01
	722.78	11.10	2.75E-01		-1.34E-01	1.18E-01
	1691.02	49.00	4.89E-02		4.43E-03	1.55E-02
I-125	35.49	6.49	1.07E+00	1.07E+00	2.45E-01	5.12E-01
SB-125	176.33	6.89	2.07E-01	8.22E-02	-1.28E-01	9.35E-02
	427.89	29.33	8.22E-02		-4.45E-02	3.64E-02
	463.38	10.35	2.99E-01		9.02E-02	1.35E-01
	600.56	17.80	1.82E-01		-3.48E-02	8.05E-02
	635.90	11.32	2.57E-01		-1.27E-01	1.11E-01
SB-126	414.70	83.30	3.30E-02	2.66E-02	1.18E-02	1.49E-02
	666.33	99.60	2.66E-02		-2.05E-02	1.12E-02
	695.00	99.60	3.28E-02		-3.96E-03	1.43E-02
	720.50	53.80	5.89E-02		7.56E-03	2.54E-02
SN-126	87.57	37.00	4.87E-02	4.87E-02	-8.20E-03	2.29E-02
SB-127	473.00	25.00	1.03E-01	8.94E-02	-2.94E-02	4.54E-02
	685.20	35.70	8.94E-02		2.03E-02	3.87E-02
	783.80	14.70	2.65E-01		7.49E-03	1.16E-01
I-129	29.78	57.00	2.04E-01	2.04E-01	2.92E-02	9.70E-02
	33.60	13.20	6.30E-01		5.70E-01	3.01E-01
	39.58	7.52	6.14E-01		-4.26E-02	2.91E-01
I-131	284.30	6.05	4.16E-01	3.32E-02	5.67E-02	1.91E-01
	364.48	81.20	3.32E-02		1.45E-02	1.51E-02
	636.97	7.26	4.07E-01		-2.09E-01	1.76E-01
	722.89	1.80	1.71E+00		-8.35E-01	7.34E-01
TE-132	49.72	13.10	2.06E-01	2.59E-02	-2.98E-01	9.66E-02
	228.16	88.00	2.59E-02		-3.05E-03	1.20E-02
BA-133	81.00	33.00	4.51E-02	4.41E-02	-2.89E-02	2.09E-02
	302.84	17.80	1.36E-01		-6.71E-03	6.23E-02
	356.01	60.00	4.41E-02		-1.04E-03	2.01E-02
I-133	529.87	86.30	3.87E-02	3.87E-02	-1.46E-03	1.72E-02
CS-134	563.23	8.38	2.93E-01	3.43E-02	-2.41E-01	1.25E-01
	569.32	15.43	1.66E-01		4.06E-02	7.15E-02
	604.70	97.60	3.48E-02		-1.07E-02	1.55E-02
	795.84	85.40	3.43E-02		5.15E-03	1.44E-02
	801.93	8.73	2.66E-01		-1.18E-01	1.05E-01
CS-135	268.24	16.00	1.37E-01	1.37E-01	1.12E-02	6.27E-02
I-135	1131.51	22.50	2.16E-01	1.73E-01	2.55E-03	8.73E-02
	1260.41	28.60	1.73E-01		1.98E-02	6.85E-02
	1678.03	9.54	5.92E-01		1.23E-02	2.29E-01
CS-136	153.22	7.46	2.31E-01	3.30E-02	7.55E-02	1.07E-01
	163.89	4.61	3.96E-01		1.39E-01	1.84E-01
	176.55	13.56	1.12E-01		-2.28E-02	5.10E-02

Analysis Report for 1506114-02

BLANK

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	273.65	12.66	1.82E-01	3.30E-02	4.02E-02	8.33E-02
	340.57	48.50	5.56E-02		2.08E-02	2.54E-02
	818.50	99.70	3.30E-02		1.10E-02	1.41E-02
	1048.07	79.60	3.97E-02		-2.82E-03	1.60E-02
	1235.34	19.70	1.57E-01		6.52E-03	6.06E-02
CS-137	661.65	85.12	3.95E-02	3.95E-02	1.32E-02	1.74E-02
LA-138	788.74	34.00	9.66E-02	6.53E-02	1.84E-02	4.14E-02
	1435.80	66.00	6.53E-02		-5.78E-02	2.68E-02
CE-139	165.85	80.35	2.27E-02	2.27E-02	5.69E-03	1.05E-02
BA-140	162.64	6.70	2.62E-01	1.16E-01	3.89E-02	1.21E-01
	304.84	4.50	5.46E-01		1.50E-02	2.50E-01
	423.70	3.20	8.46E-01		3.62E-01	3.80E-01
	437.55	2.00	1.42E+00		-3.21E-01	6.37E-01
	537.32	25.00	1.16E-01		4.51E-03	5.11E-02
LA-140	328.77	20.50	1.22E-01	4.64E-02	1.72E-04	5.54E-02
	487.03	45.50	6.23E-02		1.50E-03	2.77E-02
	815.85	23.50	1.16E-01		0.00E+00	4.74E-02
	1596.49	95.49	4.64E-02		1.48E-02	1.87E-02
CE-141	145.44	48.40	3.70E-02	3.70E-02	2.06E-02	1.72E-02
CE-143	57.36	11.80	2.01E-01	6.20E-02	1.32E-01	9.48E-02
	293.26	42.00	6.20E-02		-2.56E-02	2.84E-02
	664.55	5.20	6.65E-01		1.78E-01	2.90E-01
CE-144	133.54	10.80	1.65E-01	1.65E-01	9.00E-02	7.73E-02
PM-144	476.78	42.00	7.21E-02	3.05E-02	1.52E-02	3.24E-02
	618.01	98.60	3.05E-02		-2.15E-03	1.33E-02
	696.49	99.49	3.36E-02		-2.36E-03	1.47E-02
PM-145	36.85	21.70	2.85E-01	1.44E-01	7.76E-02	1.36E-01
	37.36	39.70	1.44E-01		5.08E-03	6.87E-02
	42.30	15.10	2.45E-01		-1.87E-01	1.16E-01
	72.40	2.31	8.51E-01		2.06E-01	4.01E-01
PM-146	453.90	39.94	6.21E-02	6.21E-02	-2.83E-02	2.74E-02
	735.90	14.01	2.43E-01		1.53E-02	1.06E-01
	747.13	13.10	2.21E-01		-6.36E-03	9.35E-02
ND-147	91.11	28.90	7.64E-02	7.64E-02	6.14E-02	3.63E-02
	531.02	13.10	2.34E-01		1.86E-02	1.04E-01
PM-149	285.90	3.10	8.26E-01	8.26E-01	-7.83E-03	3.80E-01
EU-152	121.78	20.50	7.08E-02	7.08E-02	-5.36E-02	3.27E-02
	244.69	5.40	4.92E-01		2.71E-01	2.30E-01
	344.27	19.13	1.29E-01		2.63E-02	5.85E-02
	778.89	9.20	4.00E-01		1.27E-01	1.75E-01
	964.01	10.40	2.61E-01		-1.10E-01	1.04E-01
	1085.78	7.22	6.18E-01		1.37E-01	2.66E-01
	1112.02	9.60	3.65E-01		6.61E-02	1.50E-01
	1407.95	14.94	3.00E-01		1.10E-01	1.25E-01
GD-153	97.43	31.30	4.84E-02	4.84E-02	-9.49E-03	2.25E-02
	103.18	22.20	6.87E-02		6.52E-04	3.19E-02
EU-154	123.07	40.50	3.90E-02	3.90E-02	1.29E-02	1.81E-02
	723.30	19.70	1.55E-01		-7.53E-02	6.62E-02
	873.19	11.50	3.12E-01		-2.84E-02	1.33E-01
	996.32	10.30	4.41E-01		-1.03E-01	1.93E-01
	1004.76	17.90	1.90E-01		-2.70E-02	7.89E-02
	1274.45	35.50	9.65E-02		2.21E-02	3.83E-02
EU-155	86.50	30.90	5.77E-02	5.77E-02	1.52E-02	2.71E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
EU-155	105.30	20.70	7.57E-02	5.77E-02	2.31E-02	3.52E-02
EU-156	811.77	10.40	2.27E-01	2.27E-01	1.91E-02	9.01E-02
	1153.47	7.20	5.61E-01		8.98E-02	2.35E-01
	1230.71	8.90	4.05E-01		1.53E-01	1.64E-01
HO-166M	184.41	72.60	3.11E-02	3.11E-02	2.68E-02	1.46E-02
	280.45	29.60	7.69E-02		-2.85E-02	3.52E-02
	410.94	11.10	2.32E-01		-9.99E-03	1.04E-01
	711.69	54.10	6.62E-02		7.38E-03	2.91E-02
TM-171	66.72	0.14	1.24E+01	1.24E+01	-1.80E+01	5.79E+00
HF-172	81.75	4.52	3.37E-01	1.30E-01	-1.04E-01	1.57E-01
	125.81	11.30	1.30E-01		-4.13E-02	6.00E-02
LU-172	181.53	20.60	8.88E-02	5.62E-02	-7.16E-02	4.10E-02
	810.06	16.63	1.54E-01		1.82E-03	6.21E-02
	912.12	15.25	2.39E-01		-4.73E-02	1.02E-01
	1093.66	62.50	5.62E-02		-1.02E-02	2.30E-02
LU-173	100.72	5.24	2.74E-01	1.05E-01	-1.23E-01	1.27E-01
	272.11	21.20	1.05E-01		-2.82E-02	4.79E-02
HF-175	343.40	84.00	2.81E-02	2.81E-02	-4.89E-03	1.27E-02
LU-176	88.34	13.30	1.38E-01	2.36E-02	-1.30E-01	6.51E-02
	201.83	86.00	2.36E-02		-4.42E-03	1.09E-02
	306.78	94.00	2.58E-02		-3.65E-03	1.18E-02
TA-182	67.75	41.20	3.97E-02	3.97E-02	-3.93E-02	1.84E-02
	1121.30	34.90	1.01E-01		3.90E-02	4.15E-02
	1189.05	16.23	1.83E-01		-1.90E-03	7.08E-02
	1221.41	26.98	1.49E-01		4.21E-02	6.16E-02
	1231.02	11.44	2.06E-01		-1.78E-01	7.31E-02
IR-192	308.46	29.68	8.21E-02	4.92E-02	-1.96E-02	3.75E-02
	468.07	48.10	4.92E-02		-1.44E-02	2.15E-02
HG-203	279.19	77.30	2.94E-02	2.94E-02	-6.76E-03	1.34E-02
BI-207	569.67	97.72	2.71E-02	2.71E-02	1.41E-02	1.17E-02
	1063.62	74.90	5.45E-02		1.68E-02	2.32E-02
TL-208	583.14	30.22	9.21E-02	9.21E-02	2.92E-02	4.00E-02
	860.37	4.48	7.90E-01		7.80E-02	3.38E-01
	2614.66	35.85	1.68E-01		2.19E-02	6.80E-02
BI-210M	262.00	45.00	4.55E-02	4.55E-02	7.85E-03	2.07E-02
	300.00	23.00	1.09E-01		-2.14E-02	5.02E-02
PB-210	46.50	4.25	8.31E-01	8.31E-01	4.68E-01	3.95E-01
PB-211	404.84	2.90	9.21E-01	9.21E-01	1.72E-01	4.15E-01
	831.96	2.90	1.10E+00		1.89E-01	4.63E-01
BI-212	727.17	11.80	2.77E-01	2.77E-01	4.92E-03	1.20E-01
	1620.62	2.75	1.06E+00		-2.29E-01	3.77E-01
PB-212	238.63	44.60	6.33E-02	6.33E-02	2.97E-02	2.97E-02
	300.09	3.41	7.38E-01		-1.45E-01	3.39E-01
BI-214	609.31	46.30	7.96E-02	7.96E-02	1.56E-02	3.57E-02
	1120.29	15.10	2.47E-01		1.01E-01	1.02E-01
	1764.49	15.80	2.99E-01		6.60E-02	1.21E-01
	2204.22	4.98	2.11E-01		0.00E+00	0.00E+00
PB-214	295.21	19.19	1.36E-01	7.31E-02	4.37E-02	6.28E-02
	351.92	37.19	7.31E-02		6.13E-03	3.34E-02
RN-219	401.80	6.50	4.27E-01	4.27E-01	0.00E+00	1.93E-01
RA-223	323.87	3.88	6.04E-01	6.04E-01	-5.60E-03	2.74E-01
RA-224	240.98	3.95	7.24E-01	7.24E-01	3.47E-01	3.40E-01
RA-225	40.00	31.00	1.46E-01	1.46E-01	-1.02E-02	6.94E-02

Analysis Report for 1506114-02

BLANK

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
RA-226	186.21	3.28	6.70E-01	6.70E-01	2.72E-01	3.13E-01
TH-227	50.10	8.40	3.07E-01	2.30E-01	-4.45E-01	1.44E-01
	236.00	11.50	2.30E-01		4.01E-02	1.08E-01
	256.20	6.30	3.40E-01		1.13E-01	1.56E-01
AC-228	338.32	11.40	2.13E-01	1.39E-01	-2.21E-02	9.67E-02
	911.07	27.70	1.39E-01		5.48E-03	5.98E-02
	969.11	16.60	1.77E-01		-2.82E-02	7.14E-02
TH-230	48.44	16.90	1.89E-01	1.89E-01	4.64E-02	8.98E-02
	62.85	4.60	5.41E-01		1.64E-01	2.57E-01
	67.67	0.37	4.42E+00		-4.37E+00	2.05E+00
PA-231	283.67	1.60	1.55E+00	1.05E+00	2.11E-01	7.13E-01
	302.67	2.30	1.05E+00		-5.19E-02	4.82E-01
TH-231	25.64	14.70	1.60E+00	2.51E-01	-1.00E+00	7.67E-01
	84.21	6.40	2.51E-01		0.00E+00	1.17E-01
PA-233	311.98	38.60	6.39E-02	6.39E-02	-8.14E-03	2.92E-02
PA-234	131.20	20.40	8.39E-02	8.39E-02	4.14E-02	3.91E-02
	733.99	8.80	4.08E-01		1.53E-01	1.79E-01
	946.00	12.00	2.96E-01		3.74E-02	1.25E-01
PA-234M	1001.03	0.92	4.82E+00	4.82E+00	1.28E+00	2.10E+00
TH-234	63.29	3.80	6.56E-01	6.56E-01	9.21E-01	3.12E-01
U-235	143.76	10.50	1.68E-01	1.68E-01	4.40E-03	7.81E-02
	163.35	4.70	3.85E-01		1.35E-01	1.78E-01
	205.31	4.70	4.49E-01		1.96E-01	2.08E-01
NP-237	86.50	12.60	1.41E-01	1.41E-01	3.73E-02	6.65E-02
NP-239	106.10	22.70	7.22E-02	7.22E-02	2.06E-02	3.36E-02
	228.18	10.70	2.15E-01		-2.54E-02	9.96E-02
	277.60	14.10	1.75E-01		3.12E-02	8.03E-02
AM-241	59.54	35.90	5.90E-02	5.90E-02	-8.44E-02	2.77E-02
AM-243	74.67	66.00	3.00E-02	3.00E-02	1.17E-02	1.42E-02
CM-243	209.75	3.29	5.82E-01	1.69E-01	5.83E-02	2.68E-01
	228.14	10.60	2.08E-01		-2.45E-02	9.62E-02
	277.60	14.00	1.69E-01		3.01E-02	7.74E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1506114-02

BLANK

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3613

Channel								
1:	0	0	0	0	0	0	0	0
9:	2	145	96	83	53	51	33	37
17:	17	26	30	30	26	47	49	39
25:	33	38	36	18	36	34	25	23
33:	32	30	36	37	17	32	25	24
41:	21	13	27	20	17	29	53	15
49:	14	19	18	18	13	15	12	10
57:	14	12	15	34	10	13	40	47
65:	20	12	11	10	13	13	19	15
73:	21	16	23	22	16	16	14	9
81:	10	16	7	17	15	12	13	19
89:	25	17	16	26	46	26	10	14
97:	6	15	10	14	11	9	8	15
105:	16	12	11	8	12	10	14	11
113:	11	9	11	17	11	22	9	7
121:	12	12	11	6	16	13	6	7
129:	16	8	10	17	13	11	10	18
137:	10	9	13	15	15	11	8	16
145:	12	15	15	5	7	8	12	10
153:	10	8	14	5	13	10	9	8
161:	8	9	9	14	12	12	8	10
169:	12	7	6	10	9	4	7	7
177:	8	4	8	11	7	9	12	9
185:	10	33	12	7	8	14	7	5
193:	8	7	11	7	12	15	7	5
201:	8	2	11	8	12	11	7	5
209:	4	6	6	4	12	5	10	9
217:	8	9	10	7	7	3	8	12
225:	2	10	7	14	5	10	4	5
233:	8	12	7	4	11	13	18	15
241:	5	16	11	5	7	12	13	5
249:	5	4	3	6	4	10	8	3
257:	8	5	2	4	4	9	5	6
265:	5	5	6	11	4	4	4	7
273:	3	7	10	6	4	4	7	3
281:	9	6	5	5	11	7	3	10
289:	3	3	8	3	5	6	8	8
297:	9	9	2	8	4	4	7	4
305:	9	3	4	8	3	7	7	6
313:	6	7	2	7	5	8	14	4
321:	6	3	7	6	3	4	3	4
329:	4	7	5	8	6	5	2	2
337:	0	11	9	7	1	6	3	2
345:	4	6	10	3	4	3	8	8
353:	9	3	3	2	6	8	4	5
361:	1	6	4	6	4	7	4	3

369:	1	5	4	2	3	2	4	2

Sample Title: BLANK

Channel								
377:	5	4	1	3	4	2	8	4
385:	6	9	6	6	4	6	1	6
393:	2	7	1	7	4	6	4	5
401:	5	1	8	5	3	2	6	3
409:	2	2	6	6	3	3	1	6
417:	3	6	1	2	5	1	8	3
425:	2	3	4	3	2	1	5	4
433:	4	6	5	2	2	3	8	3
441:	4	6	3	3	6	3	4	3
449:	7	2	1	5	3	2	4	1
457:	3	6	2	6	1	8	4	5
465:	5	1	2	3	2	2	1	2
473:	3	5	0	5	4	5	4	4
481:	4	3	0	0	4	4	4	3
489:	4	3	6	3	2	2	1	1
497:	2	2	5	1	2	2	1	3
505:	4	2	3	5	7	12	16	17
513:	4	8	5	4	1	3	3	2
521:	3	2	3	0	1	3	5	0
529:	3	5	1	3	4	6	2	1
537:	2	1	4	3	1	3	5	2
545:	2	1	3	2	2	3	4	1
553:	1	2	3	6	2	6	6	2
561:	3	3	0	3	1	0	2	4
569:	1	3	2	1	1	0	1	2
577:	3	5	3	1	0	1	6	4
585:	2	1	1	3	0	1	1	4
593:	5	0	4	2	5	4	0	3
601:	3	4	3	3	4	3	3	2
609:	4	6	5	3	2	3	3	1
617:	2	4	5	1	0	4	1	1
625:	2	1	2	2	0	3	2	6
633:	3	1	2	2	1	4	1	3
641:	3	2	4	3	0	5	1	1
649:	7	5	4	1	1	2	3	2
657:	1	2	4	1	2	6	4	0
665:	1	1	2	1	1	5	1	2
673:	1	1	5	4	2	1	2	2
681:	2	3	2	2	1	5	1	0
689:	1	1	4	1	4	2	5	0
697:	2	1	2	3	2	1	1	1
705:	3	2	3	4	5	2	1	4
713:	2	3	1	2	1	3	4	1
721:	2	0	2	3	0	4	3	2
729:	1	1	2	3	1	3	1	1
737:	6	2	1	0	3	0	3	2
745:	2	1	1	0	1	3	1	2
753:	1	1	2	3	1	0	1	1
761:	0	4	1	0	0	1	4	1
769:	0	3	0	3	0	0	1	1
777:	1	2	1	3	2	6	3	2
785:	1	2	1	4	1	1	0	3
793:	1	1	2	1	1	3	0	0

801:	1	2	0	1	1	2	0	2

Sample Title: BLANK

Channel								
809:	1	2	1	0	0	1	0	1
817:	0	1	4	5	0	1	1	1
825:	1	2	1	1	0	0	1	1
833:	3	1	4	0	2	2	3	1
841:	2	0	0	2	2	2	3	4
849:	1	2	0	1	0	3	1	5
857:	3	2	0	0	3	3	1	3
865:	0	2	1	3	2	2	1	3
873:	1	2	2	1	4	3	1	1
881:	0	0	2	2	2	0	2	1
889:	1	0	2	3	2	1	0	1
897:	2	0	0	1	0	0	0	0
905:	1	3	3	3	1	2	0	6
913:	1	0	1	1	2	1	1	0
921:	0	1	0	1	2	2	2	1
929:	1	4	1	0	0	2	2	0
937:	3	0	0	1	1	0	0	3
945:	2	2	2	0	1	2	1	1
953:	2	0	1	2	0	0	2	1
961:	0	0	0	1	3	0	1	3
969:	0	0	0	2	0	1	1	0
977:	1	2	1	1	1	1	1	1
985:	0	1	2	1	1	1	4	2
993:	2	2	4	1	4	1	2	4
1001:	2	3	1	2	1	0	1	0
1009:	1	1	1	0	0	2	1	2
1017:	1	2	2	0	1	0	0	1
1025:	0	0	0	1	0	0	1	3
1033:	1	0	2	0	1	0	2	0
1041:	1	3	2	0	2	1	2	1
1049:	0	0	0	2	0	2	0	2
1057:	0	1	0	2	2	0	1	2
1065:	2	2	2	0	1	2	0	0
1073:	3	1	2	0	0	0	1	0
1081:	3	0	0	2	1	4	2	4
1089:	0	1	1	1	1	2	1	0
1097:	0	2	1	1	1	2	0	2
1105:	1	1	1	1	3	1	2	0
1113:	0	0	1	0	1	1	0	2
1121:	3	1	0	0	0	0	1	0
1129:	0	0	1	2	1	2	1	2
1137:	2	2	3	0	1	2	0	1
1145:	0	1	0	0	0	0	1	4
1153:	2	0	2	0	1	2	2	0
1161:	0	0	1	1	0	0	1	0
1169:	0	0	0	1	3	1	0	1
1177:	3	0	3	0	1	0	2	3
1185:	2	0	1	1	0	1	0	1
1193:	1	0	0	0	2	0	2	0
1201:	1	4	0	1	2	2	3	0
1209:	0	3	1	2	0	1	2	0
1217:	1	2	1	1	2	1	1	0
1225:	1	0	4	0	0	1	0	1

1233:	0	0	0	2	1	0	0	1

Sample Title: BLANK

Channel								
1241:	2	1	1	1	0	0	2	2
1249:	0	0	0	0	0	1	1	0
1257:	3	1	0	0	0	1	0	0
1265:	1	0	0	1	0	0	1	1
1273:	1	0	0	1	0	1	0	0
1281:	1	2	1	1	1	0	1	0
1289:	0	1	1	0	1	0	2	1
1297:	0	1	1	1	1	0	2	0
1305:	1	0	0	0	1	0	0	1
1313:	0	0	0	0	0	0	0	0
1321:	0	0	0	0	2	1	1	1
1329:	0	2	0	3	2	3	2	0
1337:	0	0	2	0	1	1	0	1
1345:	0	1	1	3	3	1	0	1
1353:	0	0	1	0	0	0	1	1
1361:	0	1	1	1	0	1	1	2
1369:	0	0	0	0	2	1	0	0
1377:	0	0	0	1	3	0	1	0
1385:	0	0	0	0	0	1	0	0
1393:	1	2	0	0	1	1	0	0
1401:	1	0	0	0	1	0	0	2
1409:	3	1	1	0	0	1	1	0
1417:	2	0	0	0	0	0	0	2
1425:	0	2	4	2	0	4	1	0
1433:	0	0	4	0	0	1	1	2
1441:	3	0	1	2	0	0	2	0
1449:	0	0	1	0	0	0	0	0
1457:	0	1	1	0	0	2	3	0
1465:	0	0	1	1	0	0	0	1
1473:	2	2	0	0	0	0	1	2
1481:	2	0	0	0	0	0	0	1
1489:	0	0	1	0	0	1	1	2
1497:	1	0	3	1	0	0	0	0
1505:	1	1	0	0	0	0	1	1
1513:	0	2	0	0	0	0	0	1
1521:	1	1	1	0	0	0	1	1
1529:	0	1	0	1	2	0	0	0
1537:	0	0	0	1	2	1	0	0
1545:	1	0	0	0	0	1	0	2
1553:	0	0	0	1	0	1	0	0
1561:	0	0	0	0	0	0	2	1
1569:	1	0	1	1	1	1	1	1
1577:	2	1	0	0	1	0	0	1
1585:	1	0	0	1	0	1	0	1
1593:	1	0	2	1	0	0	1	0
1601:	0	0	0	0	0	0	1	1
1609:	0	0	1	0	1	1	0	0
1617:	0	0	0	0	1	1	0	0
1625:	1	0	1	3	0	3	0	0
1633:	0	0	1	1	1	0	0	1
1641:	0	0	1	1	0	0	0	0
1649:	1	0	0	0	0	0	0	0
1657:	0	1	1	1	0	1	2	0

1665:	1	1	0	0	1	0	0	1

Sample Title: BLANK

Channel								
1673:	1	1	0	1	0	0	0	1
1681:	1	0	0	0	0	0	0	0
1689:	0	0	0	0	0	0	1	0
1697:	1	0	0	0	0	0	0	1
1705:	2	0	1	1	0	0	0	1
1713:	1	0	1	0	0	0	0	0
1721:	2	2	0	1	0	1	1	0
1729:	1	1	0	0	0	1	0	0
1737:	1	0	0	0	1	0	0	0
1745:	1	0	0	1	0	0	2	1
1753:	0	0	1	0	1	0	1	0
1761:	0	1	0	1	4	0	0	0
1769:	0	0	0	0	0	0	0	0
1777:	1	0	2	1	0	0	0	2
1785:	0	1	0	1	0	0	0	1
1793:	2	0	1	2	0	0	1	0
1801:	0	1	0	0	0	1	0	1
1809:	1	0	0	0	1	0	0	0
1817:	0	0	1	0	0	0	0	0
1825:	0	1	0	0	0	1	1	0
1833:	0	0	2	0	1	0	0	0
1841:	1	0	0	1	0	0	0	1
1849:	1	0	0	1	0	1	1	1
1857:	0	0	0	1	0	0	1	0
1865:	0	0	0	0	1	0	1	0
1873:	0	0	0	0	0	0	0	0
1881:	0	0	0	0	0	0	0	1
1889:	0	1	0	0	0	0	1	0
1897:	1	1	0	0	0	0	0	1
1905:	0	1	0	0	0	0	0	0
1913:	0	0	0	1	0	1	0	0
1921:	1	0	0	0	1	0	1	0
1929:	0	0	0	0	0	1	0	0
1937:	0	0	0	1	0	0	0	0
1945:	0	0	0	1	1	0	1	1
1953:	0	1	1	0	0	0	1	0
1961:	1	1	0	0	1	0	0	0
1969:	0	1	0	1	1	0	0	0
1977:	0	0	0	0	0	0	0	1
1985:	0	0	1	0	0	0	0	1
1993:	0	0	0	0	0	2	0	0
2001:	0	0	0	0	0	0	0	2
2009:	0	1	0	0	0	0	0	0
2017:	0	1	0	0	0	0	0	0
2025:	0	0	1	0	0	1	0	1
2033:	0	0	0	1	0	1	0	0
2041:	0	1	0	0	1	0	1	0
2049:	1	0	0	0	1	0	0	1
2057:	0	0	0	0	0	0	1	0
2065:	0	0	1	0	0	0	2	2
2073:	0	0	1	0	1	0	0	0
2081:	0	0	0	0	1	0	0	0
2089:	0	0	0	0	0	0	0	1

2097:	0	0	2	0	1	1	0	0

Sample Title: BLANK

Channel								
2105:	0	0	0	0	0	0	1	0
2113:	0	0	1	1	1	0	1	0
2121:	0	0	0	0	0	0	0	0
2129:	0	0	0	0	1	1	0	0
2137:	0	0	0	0	1	2	0	1
2145:	1	0	0	0	0	1	0	0
2153:	0	1	0	1	0	0	1	0
2161:	0	1	0	1	0	1	0	1
2169:	0	2	1	0	0	1	0	1
2177:	0	0	0	0	0	1	1	0
2185:	0	0	0	2	1	1	0	0
2193:	1	1	0	1	0	0	0	0
2201:	0	0	0	0	0	0	0	0
2209:	0	4	0	0	0	0	0	0
2217:	0	1	0	0	0	1	1	1
2225:	0	0	0	0	1	1	0	0
2233:	0	1	0	1	0	1	0	0
2241:	0	0	0	0	0	0	0	0
2249:	0	1	1	0	1	0	0	0
2257:	0	0	0	0	0	2	0	0
2265:	0	0	0	1	0	0	0	0
2273:	1	1	1	0	1	0	0	0
2281:	0	1	0	0	0	0	0	0
2289:	0	0	0	0	1	1	1	0
2297:	0	0	0	0	0	0	0	0
2305:	1	0	1	0	0	1	0	1
2313:	0	0	0	0	0	0	0	1
2321:	0	0	0	0	0	0	0	1
2329:	0	2	0	1	0	0	0	0
2337:	0	0	1	0	0	0	0	0
2345:	0	0	1	0	1	0	0	0
2353:	1	0	1	0	1	0	0	0
2361:	0	1	1	0	0	0	0	2
2369:	0	0	0	0	0	0	2	0
2377:	0	1	0	1	0	0	0	0
2385:	0	2	1	0	0	0	0	0
2393:	0	1	0	0	1	1	0	0
2401:	0	0	0	0	0	0	0	2
2409:	0	2	0	0	0	1	0	1
2417:	1	1	1	1	0	1	0	0
2425:	0	2	0	0	0	1	1	0
2433:	0	1	1	0	0	2	0	0
2441:	0	0	1	0	0	0	2	0
2449:	0	0	0	0	0	0	1	0
2457:	0	0	1	0	0	1	0	0
2465:	0	1	0	0	0	0	0	0
2473:	0	0	0	0	0	0	0	0
2481:	0	0	1	0	0	1	0	1
2489:	0	0	1	1	0	0	0	0
2497:	0	0	0	0	0	0	0	0
2505:	0	1	0	0	1	0	0	0
2513:	1	0	0	0	0	0	0	0
2521:	0	0	0	0	1	1	1	0

2529:	0	0	0	1	0	1	2	1

Sample Title: BLANK

Channel								
2537:	1	0	1	0	1	0	0	0
2545:	0	0	0	0	0	1	0	0
2553:	1	0	0	0	0	0	0	0
2561:	0	0	0	0	0	0	0	0
2569:	0	1	0	0	0	0	2	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	1	1	0	0	0	0
2593:	1	1	0	0	0	0	0	0
2601:	1	1	0	0	1	0	0	1
2609:	0	0	0	0	0	1	3	1
2617:	0	1	1	1	0	0	0	0
2625:	0	0	0	1	0	0	0	0
2633:	0	0	0	0	1	1	0	0
2641:	0	0	0	1	0	0	1	0
2649:	0	1	0	0	1	0	0	0
2657:	0	0	0	0	0	0	1	1
2665:	0	0	0	0	0	0	0	0
2673:	0	0	1	0	0	0	0	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	0	0	1	1	1	0
2697:	0	1	0	0	1	0	0	0
2705:	0	0	0	1	0	0	0	1
2713:	1	1	0	0	0	1	0	0
2721:	0	0	1	0	0	0	1	0
2729:	1	0	0	0	0	1	0	0
2737:	0	0	0	0	0	0	0	0
2745:	0	0	1	0	0	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	1	0	0	0	0	0	0	1
2769:	0	0	0	0	0	0	1	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	0	0	0	0	1
2793:	0	0	0	0	2	0	0	0
2801:	0	0	0	0	1	0	0	0
2809:	1	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	1	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	1	1	0	0	0	0
2849:	0	0	0	0	0	0	2	0
2857:	1	0	0	0	0	0	0	1
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	0	0	0	1
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	1	1	0	2	0
2897:	0	1	0	0	1	0	0	0
2905:	1	0	1	0	0	0	0	0
2913:	1	1	0	0	0	1	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	1	1	1	0	1	1	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	2	0	0	0
2953:	0	0	0	1	0	1	0	0

2961:	0	0	0	0	0	1	0	0

Sample Title: BLANK

Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	1	0	1	0	0
2985:	0	0	1	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	1	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	1	0	0	2
3049:	1	0	1	0	1	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	1	0	2	0	0	0	0	0
3081:	0	1	0	0	1	0	0	0
3089:	1	0	1	0	0	0	0	0
3097:	0	2	0	0	0	1	1	0
3105:	0	0	1	0	0	0	1	0
3113:	1	0	1	0	0	0	0	0
3121:	0	0	0	0	0	0	0	1
3129:	0	0	0	0	0	0	0	0
3137:	1	1	0	0	0	0	2	1
3145:	0	0	0	0	0	0	0	0
3153:	0	0	1	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	1
3177:	0	0	0	0	0	0	0	1
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	1	0
3209:	0	0	0	0	1	0	1	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	1
3233:	0	0	0	0	0	0	0	0
3241:	0	0	1	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	1	0	1	0	0	1	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	1	0	1	0	1	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	1	0
3297:	0	0	0	0	0	1	0	0
3305:	1	0	0	0	0	0	0	1
3313:	0	0	1	0	1	0	0	0
3321:	0	0	0	1	1	0	0	1
3329:	0	1	0	0	0	0	1	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	1	1	0	0
3361:	0	0	1	0	1	1	0	0
3369:	0	0	1	0	0	0	0	0
3377:	0	0	0	0	1	0	0	0
3385:	0	0	0	0	1	1	1	0

3393:	0	0	0	0	0	0	0	0

Sample Title: BLANK

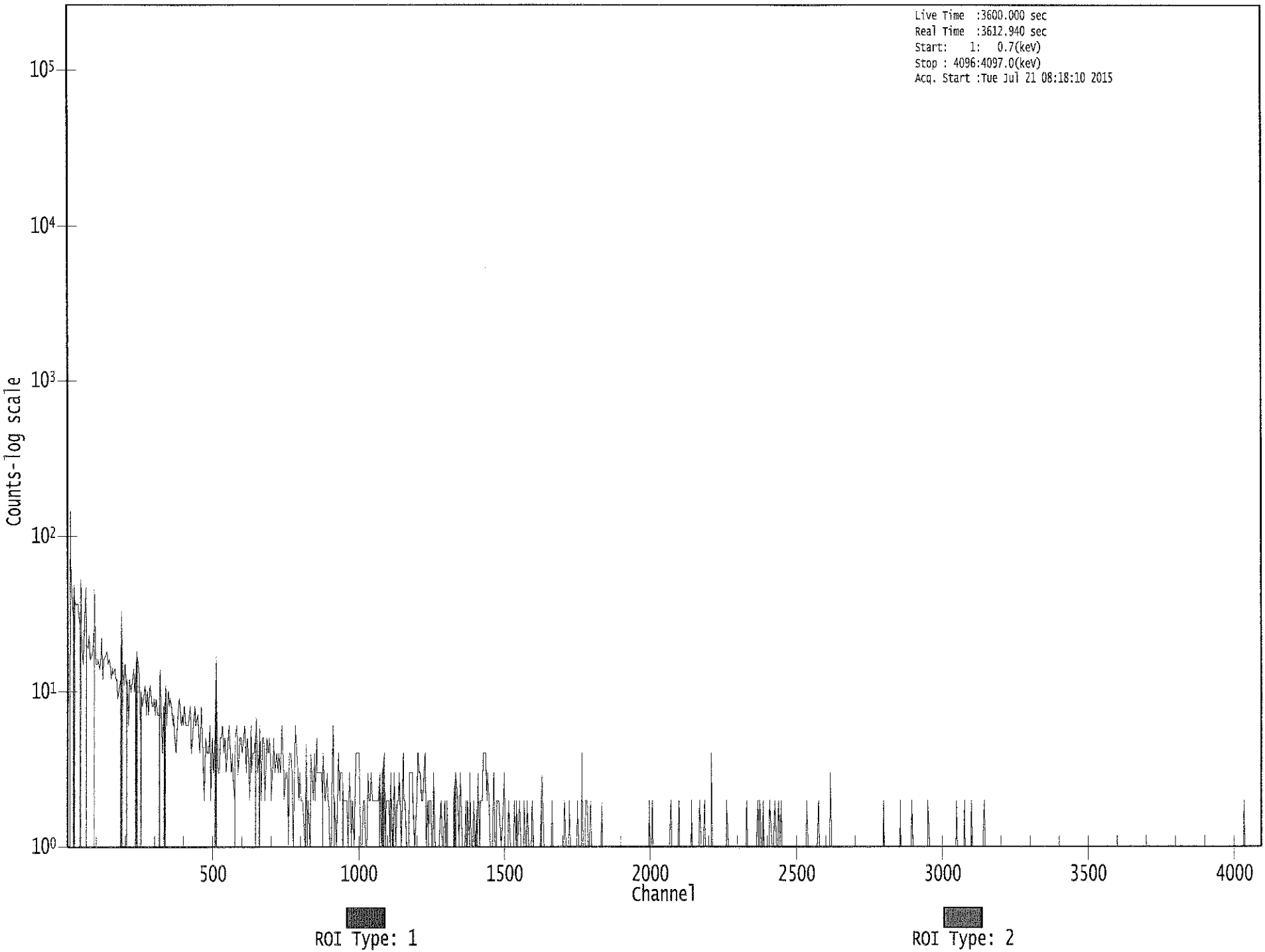
Channel								
3401:	0	0	0	0	0	0	1	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	1	0	0	0	0	0
3425:	0	1	0	0	0	0	0	0
3433:	0	0	0	1	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	1	0	0	0
3457:	0	0	0	0	0	1	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	1	0	0	1	0	0
3481:	0	1	0	1	0	1	0	0
3489:	0	0	0	0	0	0	0	0
3497:	1	0	0	0	0	0	0	1
3505:	0	0	0	1	0	0	0	1
3513:	1	0	0	0	0	1	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	1	0	0	0	0	0	0
3537:	0	0	0	1	0	1	0	0
3545:	0	0	1	0	1	1	0	0
3553:	0	0	0	1	0	0	1	0
3561:	0	0	0	0	0	0	0	1
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	1	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	1	1	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	1	0	0	0	0	0	0	0
3673:	0	0	0	0	0	1	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	1	0	0	0	0
3705:	0	0	0	0	1	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	1	0	0	1	0
3729:	0	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	1	0	0	0	0	0	0	0
3753:	0	1	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	1	0	0
3777:	0	0	1	0	0	0	1	1
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	1	0	0	0
3801:	0	0	0	0	1	0	0	0
3809:	1	0	0	0	0	0	0	0
3817:	0	1	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	0	1	0	0	1	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	1	0	0	0	0	0
3889:	1	0	0	1	0	1	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	1	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	1	0	1	0	0
3945:	0	0	1	0	0	0	0	0
3953:	1	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	1	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	1
4033:	2	1	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	1	0	1	1	0
4065:	1	0	1	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000024893.CNF



Apex-Gamma

Analysis Report for 1506114-03
FEEBRIS1D-09.099-100

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-03
Sample Description	: FEEBRIS1D-09.099-100
Sample Type	: SOIL
Sample Size	: 7.441E+02 grams
Facility	: Countroom
Sample Taken On	: 6/17/2015 7:36:12AM
Acquisition Started	: 7/22/2015 8:26:54AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24969

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 9:26:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	32.41	32.77	0.0000	0.00
2	46.69	47.04	0.0000	0.00
3	74.94	75.28	0.0000	0.00
4	77.50	77.84	0.0000	0.00
5	186.14	186.44	0.0000	0.00
6	193.55	193.85	0.0000	0.00
7	200.33	200.63	0.0000	0.00
8	238.66	238.95	0.0000	0.00
9	241.87	242.15	0.0000	0.00
10	259.51	259.79	0.0000	0.00
11	270.82	271.10	0.0000	0.00
12	295.23	295.50	0.0000	0.00
13	338.47	338.72	0.0000	0.00
14	352.04	352.29	0.0000	0.00
15	411.53	411.76	0.0000	0.00
16	452.42	452.63	0.0000	0.00
17	461.58	461.79	0.0000	0.00
18	468.58	468.79	0.0000	0.00
19	510.98	511.17	0.0000	0.00
20	583.22	583.39	0.0000	0.00
21	609.55	609.71	0.0000	0.00
22	625.45	625.61	0.0000	0.00
23	724.07	724.19	0.0000	0.00
24	727.49	727.61	0.0000	0.00
25	770.35	770.46	0.0000	0.00
26	794.33	794.43	0.0000	0.00
27	804.31	804.40	0.0000	0.00
28	855.94	856.02	0.0000	0.00
29	860.78	860.85	0.0000	0.00
30	911.09	911.14	0.0000	0.00
31	934.71	934.76	0.0000	0.00
32	950.15	950.19	0.0000	0.00
33	964.92	964.96	0.0000	0.00
34	969.16	969.20	0.0000	0.00
35	1120.36	1120.34	0.0000	0.00
36	1163.25	1163.22	0.0000	0.00
37	1294.63	1294.55	0.0000	0.00
38	1377.54	1377.42	0.0000	0.00
39	1460.80	1460.66	0.0000	0.00
40	1508.22	1508.06	0.0000	0.00
41	1575.71	1575.52	0.0000	0.00
42	1729.56	1729.32	0.0000	0.00

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1764.54	1764.28	0.0000	0.00
44	1847.29	1847.00	0.0000	0.00
45	2168.21	2167.80	0.0000	0.00
46	2204.73	2204.31	0.0000	0.00
47	2230.74	2230.31	0.0000	0.00
48	2271.58	2271.13	0.0000	0.00
49	2447.27	2446.75	0.0000	0.00
50	2614.05	2613.46	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:26:58AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	32.41	30 -	35	32.77	4.83E+01	54.57	5.55E+02	1.99
	2	46.69	43 -	52	47.04	1.38E+02	97.69	1.30E+03	1.35
M	3	74.94	72 -	81	75.28	2.23E+02	76.50	9.11E+02	1.60
m	4	77.50	72 -	81	77.84	3.97E+02	81.83	9.19E+02	1.61
M	5	186.14	182 -	197	186.44	1.89E+02	57.04	5.29E+02	1.92
m	6	193.55	182 -	197	193.85	6.94E+01	63.47	5.49E+02	2.59
	7	200.33	198 -	205	200.63	6.16E+01	58.96	5.43E+02	2.01
M	8	238.66	235 -	245	238.95	3.64E+02	53.65	3.57E+02	1.68
m	9	241.87	235 -	245	242.15	8.00E+01	45.80	3.04E+02	1.68
	10	259.51	257 -	262	259.79	3.62E+01	39.00	2.70E+02	2.73
	11	270.82	268 -	273	271.10	3.89E+01	42.71	3.30E+02	2.55
	12	295.23	292 -	299	295.50	1.76E+02	55.82	4.07E+02	1.75
	13	338.47	335 -	343	338.72	1.20E+02	48.62	2.84E+02	2.04
	14	352.04	349 -	355	352.29	3.76E+02	54.32	2.64E+02	1.82
	15	411.53	407 -	418	411.76	5.82E+01	49.48	2.80E+02	8.55
	16	452.42	448 -	457	452.63	3.98E+01	37.24	1.76E+02	4.66
M	17	461.58	459 -	473	461.79	2.83E+01	23.53	1.10E+02	2.49
m	18	468.58	459 -	473	468.79	2.56E+01	32.37	1.31E+02	2.50
	19	510.98	505 -	517	511.17	1.35E+02	52.99	2.68E+02	2.50
	20	583.22	580 -	587	583.39	1.10E+02	36.82	1.55E+02	1.97
	21	609.55	606 -	614	609.71	1.83E+02	47.47	2.34E+02	1.71
	22	625.45	622 -	629	625.61	2.51E+01	30.20	1.34E+02	1.23
M	23	724.07	723 -	733	724.19	1.69E+01	8.72	1.77E+01	2.05
m	24	727.49	723 -	733	727.61	3.13E+01	22.63	5.65E+01	2.26
	25	770.35	764 -	778	770.46	7.89E+01	39.09	1.28E+02	7.85
	26	794.33	790 -	800	794.43	4.51E+01	30.47	1.02E+02	8.29
	27	804.31	801 -	810	804.40	2.86E+01	27.77	9.09E+01	3.39
	28	855.94	854 -	858	856.02	1.30E+01	15.56	4.20E+01	2.76
	29	860.78	859 -	863	860.85	1.69E+01	17.23	5.22E+01	1.29
	30	911.09	906 -	915	911.14	9.50E+01	37.82	1.50E+02	1.80
	31	934.71	929 -	940	934.76	5.13E+01	28.71	7.54E+01	7.06
	32	950.15	948 -	953	950.19	1.80E+01	19.29	6.00E+01	3.06
M	33	964.92	963 -	973	964.96	1.70E+01	18.08	5.74E+01	2.18
m	34	969.16	963 -	973	969.20	3.81E+01	26.21	1.05E+02	2.19
	35	1120.36	1116 -	1124	1120.34	7.62E+01	29.34	8.57E+01	2.50
	36	1163.25	1159 -	1166	1163.22	2.66E+01	22.09	6.28E+01	4.25
	37	1294.63	1291 -	1297	1294.55	1.45E+01	15.83	3.50E+01	3.03
	38	1377.54	1371 -	1383	1377.42	3.12E+01	21.30	3.76E+01	2.60
	39	1460.80	1455 -	1466	1460.66	7.83E+02	58.89	4.16E+01	2.15
	40	1508.22	1503 -	1511	1508.06	1.60E+01	13.45	1.80E+01	1.93

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1575.71	1571 -	1579	1575.52	9.50E+00	9.82	9.00E+00	5.25
42	1729.56	1724 -	1731	1729.32	1.16E+01	12.96	2.08E+01	1.50
43	1764.54	1760 -	1769	1764.28	4.19E+01	16.46	1.43E+01	2.03
44	1847.29	1844 -	1849	1847.00	8.45E+00	7.87	5.09E+00	1.55
45	2168.21	2165 -	2170	2167.80	5.00E+00	4.47	0.00E+00	2.41
46	2204.73	2200 -	2209	2204.31	2.33E+01	11.36	5.46E+00	1.88
47	2230.74	2226 -	2233	2230.31	6.19E+00	6.93	3.63E+00	2.71
48	2271.58	2267 -	2274	2271.13	5.14E+00	6.63	3.71E+00	3.07
49	2447.27	2443 -	2449	2446.75	8.00E+00	5.66	0.00E+00	1.96
50	2614.05	2610 -	2618	2613.46	5.60E+01	14.97	0.00E+00	2.14

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:26:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	32.41	30 -	35	4.83E+01	54.57	5.55E+02	4.34E+01
	2	46.69	43 -	52	1.38E+02	97.69	1.30E+03	2.48E+01
M	3	74.94	72 -	81	2.23E+02	76.50	9.11E+02	4.96E+01
m	4	77.50	72 -	81	3.97E+02	81.83	9.19E+02	4.98E+01
M	5	186.14	182 -	197	1.89E+02	57.04	5.29E+02	3.78E+01
m	6	193.55	182 -	197	6.94E+01	63.47	5.49E+02	3.85E+01
	7	200.33	198 -	205	6.16E+01	58.96	5.43E+02	4.67E+01
M	8	238.66	235 -	245	3.64E+02	53.65	3.57E+02	3.11E+01
m	9	241.87	235 -	245	8.00E+01	45.80	3.04E+02	2.86E+01
	10	259.51	257 -	262	3.62E+01	39.00	2.70E+02	3.05E+01
	11	270.82	268 -	273	3.89E+01	42.71	3.30E+02	3.36E+01
	12	295.23	292 -	299	1.76E+02	55.82	4.07E+02	4.04E+01
	13	338.47	335 -	343	1.20E+02	48.62	2.84E+02	3.57E+01
	14	352.04	349 -	355	3.76E+02	54.32	2.64E+02	3.13E+01
	15	411.53	407 -	418	5.82E+01	49.48	2.80E+02	3.87E+01
	16	452.42	448 -	457	3.98E+01	37.24	1.76E+02	2.88E+01
M	17	461.58	459 -	473	2.83E+01	23.53	1.10E+02	1.73E+01

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	18	468.58	459 -	473	2.56E+01	32.37	1.31E+02	1.88E+01
	19	510.98	505 -	517	1.35E+02	52.99	2.68E+02	3.91E+01
	20	583.22	580 -	587	1.10E+02	36.82	1.55E+02	2.49E+01
	21	609.55	606 -	614	1.83E+02	47.47	2.34E+02	3.21E+01
	22	625.45	622 -	629	2.51E+01	30.20	1.34E+02	2.34E+01
M	23	724.07	723 -	733	1.69E+01	8.72	1.77E+01	6.91E+00
m	24	727.49	723 -	733	3.13E+01	22.63	5.65E+01	1.24E+01
	25	770.35	764 -	778	7.89E+01	39.09	1.28E+02	2.86E+01
	26	794.33	790 -	800	4.51E+01	30.47	1.02E+02	2.25E+01
	27	804.31	801 -	810	2.86E+01	27.77	9.09E+01	2.11E+01
	28	855.94	854 -	858	1.30E+01	15.56	4.20E+01	1.13E+01
	29	860.78	859 -	863	1.69E+01	17.23	5.22E+01	1.24E+01
	30	911.09	906 -	915	9.50E+01	37.82	1.50E+02	2.66E+01
	31	934.71	929 -	940	5.13E+01	28.71	7.54E+01	2.04E+01
	32	950.15	948 -	953	1.80E+01	19.29	6.00E+01	1.42E+01
M	33	964.92	963 -	973	1.70E+01	18.08	5.74E+01	1.25E+01
m	34	969.16	963 -	973	3.81E+01	26.21	1.05E+02	1.69E+01
	35	1120.36	1116 -	1124	7.62E+01	29.34	8.57E+01	1.94E+01
	36	1163.25	1159 -	1166	2.66E+01	22.09	6.28E+01	1.61E+01
	37	1294.63	1291 -	1297	1.45E+01	15.83	3.50E+01	1.14E+01
	38	1377.54	1371 -	1383	3.12E+01	21.30	3.76E+01	1.49E+01
	39	1460.80	1455 -	1466	7.83E+02	58.89	4.16E+01	1.51E+01
	40	1508.22	1503 -	1511	1.60E+01	13.45	1.80E+01	8.89E+00
	41	1575.71	1571 -	1579	9.50E+00	9.82	9.00E+00	6.29E+00
	42	1729.56	1724 -	1731	1.16E+01	12.96	2.08E+01	9.07E+00
	43	1764.54	1760 -	1769	4.19E+01	16.46	1.43E+01	8.37E+00
	44	1847.29	1844 -	1849	8.45E+00	7.87	5.09E+00	4.36E+00
	45	2168.21	2165 -	2170	5.00E+00	4.47	0.00E+00	0.00E+00
	46	2204.73	2200 -	2209	2.33E+01	11.36	5.46E+00	4.93E+00
	47	2230.74	2226 -	2233	6.19E+00	6.93	3.63E+00	3.96E+00
	48	2271.58	2267 -	2274	5.14E+00	6.63	3.71E+00	3.98E+00
	49	2447.27	2443 -	2449	8.00E+00	5.66	0.00E+00	0.00E+00
	50	2614.05	2610 -	2618	5.60E+01	14.97	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 9:26:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	32.41	30 -	35	32.77	4.83E+01	54.57	5.55E+02	.....
	2	46.69	43 -	52	47.04	1.38E+02	97.69	1.30E+03	PB-210
M	3	74.94	72 -	81	75.28	2.23E+02	76.50	9.11E+02	AM-243
m	4	77.50	72 -	81	77.84	3.97E+02	81.83	9.19E+02	TI-44
M	5	186.14	182 -	197	186.44	1.89E+02	57.04	5.29E+02	RA-226
m	6	193.55	182 -	197	193.85	6.94E+01	63.47	5.49E+02	.....
	7	200.33	198 -	205	200.63	6.16E+01	58.96	5.43E+02	.....
M	8	238.66	235 -	245	238.95	3.64E+02	53.65	3.57E+02	PB-212
m	9	241.87	235 -	245	242.15	8.00E+01	45.80	3.04E+02	RA-224
	10	259.51	257 -	262	259.79	3.62E+01	39.00	2.70E+02	.....
	11	270.82	268 -	273	271.10	3.89E+01	42.71	3.30E+02	.....
	12	295.23	292 -	299	295.50	1.76E+02	55.82	4.07E+02	PB-214
	13	338.47	335 -	343	338.72	1.20E+02	48.62	2.84E+02	AC-228
	14	352.04	349 -	355	352.29	3.76E+02	54.32	2.64E+02	PB-214
	15	411.53	407 -	418	411.76	5.82E+01	49.48	2.80E+02	HO-166M
	16	452.42	448 -	457	452.63	3.98E+01	37.24	1.76E+02	.....
M	17	461.58	459 -	473	461.79	2.83E+01	23.53	1.10E+02	.....
m	18	468.58	459 -	473	468.79	2.56E+01	32.37	1.31E+02	IR-192
	19	510.98	505 -	517	511.17	1.35E+02	52.99	2.68E+02	.....
	20	583.22	580 -	587	583.39	1.10E+02	36.82	1.55E+02	TL-208
	21	609.55	606 -	614	609.71	1.83E+02	47.47	2.34E+02	BI-214
	22	625.45	622 -	629	625.61	2.51E+01	30.20	1.34E+02	.....
M	23	724.07	723 -	733	724.19	1.69E+01	8.72	1.77E+01	ZR-95 EU-154
m	24	727.49	723 -	733	727.61	3.13E+01	22.63	5.65E+01	BI-212
	25	770.35	764 -	778	770.46	7.89E+01	39.09	1.28E+02	.....
	26	794.33	790 -	800	794.43	4.51E+01	30.47	1.02E+02	.....
	27	804.31	801 -	810	804.40	2.86E+01	27.77	9.09E+01	.....
	28	855.94	854 -	858	856.02	1.30E+01	15.56	4.20E+01	.....
	29	860.78	859 -	863	860.85	1.69E+01	17.23	5.22E+01	TL-208
	30	911.09	906 -	915	911.14	9.50E+01	37.82	1.50E+02	AC-228
	31	934.71	929 -	940	934.76	5.13E+01	28.71	7.54E+01	.....
	32	950.15	948 -	953	950.19	1.80E+01	19.29	6.00E+01	.....
M	33	964.92	963 -	973	964.96	1.70E+01	18.08	5.74E+01	EU-152
m	34	969.16	963 -	973	969.20	3.81E+01	26.21	1.05E+02	AC-228
	35	1120.36	1116 -	1124	1120.34	7.62E+01	29.34	8.57E+01	BI-214 SC-46 TA-182
	36	1163.25	1159 -	1166	1163.22	2.66E+01	22.09	6.28E+01	.....
	37	1294.63	1291 -	1297	1294.55	1.45E+01	15.83	3.50E+01	AR-41
	38	1377.54	1371 -	1383	1377.42	3.12E+01	21.30	3.76E+01	.....

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
39	1460.80	1455 -	1466	1460.66	7.83E+02	58.89	4.16E+01	K-40
40	1508.22	1503 -	1511	1508.06	1.60E+01	13.45	1.80E+01	.....
41	1575.71	1571 -	1579	1575.52	9.50E+00	9.82	9.00E+00	.....
42	1729.56	1724 -	1731	1729.32	1.16E+01	12.96	2.08E+01	.....
43	1764.54	1760 -	1769	1764.28	4.19E+01	16.46	1.43E+01	BI-214
44	1847.29	1844 -	1849	1847.00	8.45E+00	7.87	5.09E+00	.....
45	2168.21	2165 -	2170	2167.80	5.00E+00	4.47	0.00E+00	.....
46	2204.73	2200 -	2209	2204.31	2.33E+01	11.36	5.46E+00	BI-214
47	2230.74	2226 -	2233	2230.31	6.19E+00	6.93	3.63E+00	.....
48	2271.58	2267 -	2274	2271.13	5.14E+00	6.63	3.71E+00	.....
49	2447.27	2443 -	2449	2446.75	8.00E+00	5.66	0.00E+00	.....
50	2614.05	2610 -	2618	2613.46	5.60E+01	14.97	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 9:26:58AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	32.41	4.83E+01	54.57	6.29E-03	1.78E-03
	2	46.69	1.38E+02	97.69	1.69E-02	1.78E-03
M	3	74.94	2.23E+02	76.50	2.75E-02	2.30E-03
m	4	77.50	3.97E+02	81.83	2.78E-02	2.39E-03
M	5	186.14	1.89E+02	57.04	2.24E-02	2.03E-03
m	6	193.55	6.94E+01	63.47	2.19E-02	1.97E-03
	7	200.33	6.16E+01	58.96	2.14E-02	1.92E-03
M	8	238.66	3.64E+02	53.65	1.92E-02	1.64E-03
m	9	241.87	8.00E+01	45.80	1.91E-02	1.61E-03
	10	259.51	3.62E+01	39.00	1.82E-02	1.48E-03
	11	270.82	3.89E+01	42.71	1.77E-02	1.40E-03
	12	295.23	1.76E+02	55.82	1.67E-02	1.31E-03
	13	338.47	1.20E+02	48.62	1.52E-02	1.22E-03
	14	352.04	3.76E+02	54.32	1.48E-02	1.19E-03
	15	411.53	5.82E+01	49.48	1.32E-02	1.09E-03
	16	452.42	3.98E+01	37.24	1.23E-02	1.05E-03
M	17	461.58	2.83E+01	23.53	1.21E-02	1.04E-03
m	18	468.58	2.56E+01	32.37	1.20E-02	1.03E-03

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	19	510.98	1.35E+02	52.99	1.12E-02	9.90E-04
	20	583.22	1.10E+02	36.82	1.02E-02	9.15E-04
	21	609.55	1.83E+02	47.47	9.82E-03	8.88E-04
	22	625.45	2.51E+01	30.20	9.63E-03	8.72E-04
M	23	724.07	1.69E+01	8.72	8.58E-03	7.78E-04
m	24	727.49	3.13E+01	22.63	8.55E-03	7.75E-04
	25	770.35	7.89E+01	39.09	8.17E-03	7.37E-04
	26	794.33	4.51E+01	30.47	7.98E-03	7.15E-04
	27	804.31	2.86E+01	27.77	7.90E-03	7.06E-04
	28	855.94	1.30E+01	15.56	7.51E-03	6.60E-04
	29	860.78	1.69E+01	17.23	7.48E-03	6.56E-04
	30	911.09	9.50E+01	37.82	7.15E-03	6.16E-04
	31	934.71	5.13E+01	28.71	7.00E-03	6.03E-04
	32	950.15	1.80E+01	19.29	6.91E-03	5.95E-04
M	33	964.92	1.70E+01	18.08	6.83E-03	5.88E-04
m	34	969.16	3.81E+01	26.21	6.80E-03	5.85E-04
	35	1120.36	7.62E+01	29.34	6.07E-03	5.07E-04
	36	1163.25	2.66E+01	22.09	5.89E-03	4.84E-04
	37	1294.63	1.45E+01	15.83	5.43E-03	4.58E-04
	38	1377.54	3.12E+01	21.30	5.18E-03	4.40E-04
	39	1460.80	7.83E+02	58.89	4.97E-03	4.19E-04
	40	1508.22	1.60E+01	13.45	4.86E-03	4.07E-04
	41	1575.71	9.50E+00	9.82	4.72E-03	3.91E-04
	42	1729.56	1.16E+01	12.96	4.45E-03	3.52E-04
	43	1764.54	4.19E+01	16.46	4.40E-03	3.44E-04
	44	1847.29	8.45E+00	7.87	4.28E-03	3.26E-04
	45	2168.21	5.00E+00	4.47	3.97E-03	3.26E-04
	46	2204.73	2.33E+01	11.36	3.95E-03	3.26E-04
	47	2230.74	6.19E+00	6.93	3.93E-03	3.26E-04
	48	2271.58	5.14E+00	6.63	3.91E-03	3.26E-04
	49	2447.27	8.00E+00	5.66	3.83E-03	3.26E-04
	50	2614.05	5.60E+01	14.97	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 9:26:58AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	32.41	4.83E+01	54.57			4.83E+01	5.46E+01
	2	46.69	1.38E+02	97.69	4.67E+01	7.87E+00	9.16E+01	9.80E+01
M	3	74.94	2.23E+02	76.50			2.23E+02	7.65E+01
m	4	77.50	3.97E+02	81.83	1.37E+01	4.21E+00	3.83E+02	8.19E+01
M	5	186.14	1.89E+02	57.04	6.17E+01	7.27E+00	1.27E+02	5.75E+01
m	6	193.55	6.94E+01	63.47			6.94E+01	6.35E+01
	7	200.33	6.16E+01	58.96			6.16E+01	5.90E+01
M	8	238.66	3.64E+02	53.65	1.90E+01	5.64E+00	3.45E+02	5.39E+01
m	9	241.87	8.00E+01	45.80			8.00E+01	4.58E+01
	10	259.51	3.62E+01	39.00			3.62E+01	3.90E+01
	11	270.82	3.89E+01	42.71			3.89E+01	4.27E+01
	12	295.23	1.76E+02	55.82	3.06E+00	4.82E+00	1.73E+02	5.60E+01
	13	338.47	1.20E+02	48.62			1.20E+02	4.86E+01
	14	352.04	3.76E+02	54.32	1.06E+01	4.49E+00	3.65E+02	5.45E+01
	15	411.53	5.82E+01	49.48			5.82E+01	4.95E+01
	16	452.42	3.98E+01	37.24	1.82E+00	3.52E+00	3.79E+01	3.74E+01
M	17	461.58	2.83E+01	23.53			2.83E+01	2.35E+01
m	18	468.58	2.56E+01	32.37			2.56E+01	3.24E+01
	19	510.98	1.35E+02	52.99	8.80E+01	5.43E+00	4.71E+01	5.33E+01
	20	583.22	1.10E+02	36.82	3.96E+00	4.13E+00	1.06E+02	3.71E+01
	21	609.55	1.83E+02	47.47	8.00E+00	4.15E+00	1.75E+02	4.76E+01
	22	625.45	2.51E+01	30.20			2.51E+01	3.02E+01
M	23	724.07	1.69E+01	8.72			1.69E+01	8.72E+00
m	24	727.49	3.13E+01	22.63	2.83E+00	2.91E+00	2.84E+01	2.28E+01
	25	770.35	7.89E+01	39.09			7.89E+01	3.91E+01
	26	794.33	4.51E+01	30.47			4.51E+01	3.05E+01
	27	804.31	2.86E+01	27.77			2.86E+01	2.78E+01
	28	855.94	1.30E+01	15.56	0.00E+00	0.00E+00	1.30E+01	1.56E+01
	29	860.78	1.69E+01	17.23			1.69E+01	1.72E+01
	30	911.09	9.50E+01	37.82	3.29E+00	3.12E+00	9.17E+01	3.79E+01
	31	934.71	5.13E+01	28.71			5.13E+01	2.87E+01
	32	950.15	1.80E+01	19.29			1.80E+01	1.93E+01
M	33	964.92	1.70E+01	18.08			1.70E+01	1.81E+01
m	34	969.16	3.81E+01	26.21			3.81E+01	2.62E+01
	35	1120.36	7.62E+01	29.34			7.62E+01	2.93E+01
	36	1163.25	2.66E+01	22.09			2.66E+01	2.21E+01
	37	1294.63	1.45E+01	15.83			1.45E+01	1.58E+01
	38	1377.54	3.12E+01	21.30			3.12E+01	2.13E+01
	39	1460.80	7.83E+02	58.89	5.51E+00	2.16E+00	7.78E+02	5.89E+01
	40	1508.22	1.60E+01	13.45			1.60E+01	1.35E+01
	41	1575.71	9.50E+00	9.82			9.50E+00	9.82E+00
	42	1729.56	1.16E+01	12.96			1.16E+01	1.30E+01
	43	1764.54	4.19E+01	16.46	1.06E+00	1.86E+00	4.08E+01	1.66E+01
	44	1847.29	8.45E+00	7.87			8.45E+00	7.87E+00
	45	2168.21	5.00E+00	4.47			5.00E+00	4.47E+00
	46	2204.73	2.33E+01	11.36			2.33E+01	1.14E+01
	47	2230.74	6.19E+00	6.93			6.19E+00	6.93E+00
	48	2271.58	5.14E+00	6.63			5.14E+00	6.63E+00
	49	2447.27	8.00E+00	5.66			8.00E+00	5.66E+00
	50	2614.05	5.60E+01	14.97	3.94E+00	1.34E+00	5.21E+01	1.50E+01

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 9:26:58AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	32.41	4.83E+01	54.57			4.83E+01	5.46E+01
	2	46.69	1.38E+02	97.69	4.67E+01	7.87E+00	9.16E+01	9.80E+01
M	3	74.94	2.23E+02	76.50			2.23E+02	7.65E+01
m	4	77.50	3.97E+02	81.83	1.37E+01	4.21E+00	3.83E+02	8.19E+01
M	5	186.14	1.89E+02	57.04	6.17E+01	7.27E+00	1.27E+02	5.75E+01
m	6	193.55	6.94E+01	63.47			6.94E+01	6.35E+01
	7	200.33	6.16E+01	58.96			6.16E+01	5.90E+01
M	8	238.66	3.64E+02	53.65	1.90E+01	5.64E+00	3.45E+02	5.39E+01
m	9	241.87	8.00E+01	45.80			8.00E+01	4.58E+01
	10	259.51	3.62E+01	39.00			3.62E+01	3.90E+01
	11	270.82	3.89E+01	42.71			3.89E+01	4.27E+01
	12	295.23	1.76E+02	55.82	3.06E+00	4.82E+00	1.73E+02	5.60E+01
	13	338.47	1.20E+02	48.62			1.20E+02	4.86E+01
	14	352.04	3.76E+02	54.32	1.06E+01	4.49E+00	3.65E+02	5.45E+01
	15	411.53	5.82E+01	49.48			5.82E+01	4.95E+01
	16	452.42	3.98E+01	37.24	1.82E+00	3.52E+00	3.79E+01	3.74E+01
M	17	461.58	2.83E+01	23.53			2.83E+01	2.35E+01
m	18	468.58	2.56E+01	32.37			2.56E+01	3.24E+01
	19	510.98	1.35E+02	52.99	8.80E+01	5.43E+00	4.71E+01	5.33E+01
	20	583.22	1.10E+02	36.82	3.96E+00	4.13E+00	1.06E+02	3.71E+01
	21	609.55	1.83E+02	47.47	8.00E+00	4.15E+00	1.75E+02	4.76E+01
	22	625.45	2.51E+01	30.20			2.51E+01	3.02E+01
M	23	724.07	1.69E+01	8.72			1.69E+01	8.72E+00
m	24	727.49	3.13E+01	22.63	2.83E+00	2.91E+00	2.84E+01	2.28E+01
	25	770.35	7.89E+01	39.09			7.89E+01	3.91E+01
	26	794.33	4.51E+01	30.47			4.51E+01	3.05E+01
	27	804.31	2.86E+01	27.77			2.86E+01	2.78E+01
	28	855.94	1.30E+01	15.56	0.00E+00	0.00E+00	1.30E+01	1.56E+01
	29	860.78	1.69E+01	17.23			1.69E+01	1.72E+01
	30	911.09	9.50E+01	37.82	3.29E+00	3.12E+00	9.17E+01	3.79E+01
	31	934.71	5.13E+01	28.71			5.13E+01	2.87E+01
	32	950.15	1.80E+01	19.29			1.80E+01	1.93E+01

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	33	964.92	1.70E+01	18.08			1.70E+01	1.81E+01
m	34	969.16	3.81E+01	26.21			3.81E+01	2.62E+01
	35	1120.36	7.62E+01	29.34			7.62E+01	2.93E+01
	36	1163.25	2.66E+01	22.09			2.66E+01	2.21E+01
	37	1294.63	1.45E+01	15.83			1.45E+01	1.58E+01
	38	1377.54	3.12E+01	21.30			3.12E+01	2.13E+01
	39	1460.80	7.83E+02	58.89	5.51E+00	2.16E+00	7.78E+02	5.89E+01
	40	1508.22	1.60E+01	13.45			1.60E+01	1.35E+01
	41	1575.71	9.50E+00	9.82			9.50E+00	9.82E+00
	42	1729.56	1.16E+01	12.96			1.16E+01	1.30E+01
	43	1764.54	4.19E+01	16.46	1.06E+00	1.86E+00	4.08E+01	1.66E+01
	44	1847.29	8.45E+00	7.87			8.45E+00	7.87E+00
	45	2168.21	5.00E+00	4.47			5.00E+00	4.47E+00
	46	2204.73	2.33E+01	11.36			2.33E+01	1.14E+01
	47	2230.74	6.19E+00	6.93			6.19E+00	6.93E+00
	48	2271.58	5.14E+00	6.63			5.14E+00	6.63E+00
	49	2447.27	8.00E+00	5.66			8.00E+00	5.66E+00
	50	2614.05	5.60E+01	14.97	3.94E+00	1.34E+00	5.21E+01	1.50E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.000	1460.81	*	10.67	1.48E+01	1.70E+00
IR-192	0.306	308.46		29.68		
		468.07	*	48.10	6.21E-02	7.88E-02
TL-208	0.968	583.14	*	30.22	3.47E-01	1.26E-01
		860.37	*	4.48	5.09E-01	5.21E-01
		2614.66	*	35.85	3.86E-01	1.16E-01
PB-210	0.994	46.50	*	4.25	1.29E+00	1.39E+00
BI-212	0.753	727.17	*	11.80	2.84E-01	2.30E-01
		1620.62		2.75		
PB-212	0.894	238.63	*	44.60	4.06E-01	7.23E-02
		300.09		3.41		
BI-214	0.992	609.31	*	46.30	3.88E-01	1.11E-01
		1120.29	*	15.10	8.39E-01	3.31E-01

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.992	1764.49	*	15.80	5.93E-01	2.45E-01
		2204.22	*	4.98	1.19E+00	5.91E-01
PB-214	0.998	295.21	*	19.19	5.44E-01	1.82E-01
		351.92	*	37.19	6.71E-01	1.14E-01
RA-224	0.882	240.98	*	3.95	1.07E+00	6.21E-01
RA-226	0.999	186.21	*	3.28	1.74E+00	3.29E+00
AC-228	0.999	338.32	*	11.40	7.00E-01	2.89E-01
		911.07	*	27.70	4.67E-01	1.97E-01
		969.11	*	16.60	3.41E-01	2.36E-01
AM-243	0.989	74.67	*	66.00	1.24E-01	4.38E-02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:26:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.41	1.34237E-02	56.46		
m	4	77.50	1.06453E-01	10.69	Tol.	TI-44
m	6	193.55	1.92816E-02	45.72		
	7	200.33	1.71046E-02	47.87		
	10	259.51	1.00658E-02	53.81		
	11	270.82	1.08170E-02	54.84		
	15	411.53	1.61700E-02	42.50	Tol.	HO-166M
	16	452.42	1.05393E-02	49.30		
M	17	461.58	7.85694E-03	41.59		
	19	510.98	1.30744E-02	56.59		
	22	625.45	6.96860E-03	60.19		
M	23	724.07	4.69500E-03	25.79	Tol.	EU-154
	25	770.35	2.19134E-02	24.78	Sum	
	26	794.33	1.25405E-02	33.75		
	27	804.31	7.93544E-03	48.60		
	28	855.94	3.61111E-03	59.86		
	31	934.71	1.42478E-02	27.98	Sum	
	32	950.15	5.00000E-03	53.58	S-Esc	

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	33	964.92	4.72424E-03	53.16	Tol.	EU-152
	36	1163.25	7.39464E-03	41.49		
	37	1294.63	4.02778E-03	54.58	Tol.	AR-41
	38	1377.54	8.66111E-03	34.15		
	40	1508.22	4.44444E-03	42.04	Sum	
	41	1575.71	2.63889E-03	51.70		
	42	1729.56	3.21970E-03	55.91	Sum	
	44	1847.29	2.34848E-03	46.57	Sum	
	45	2168.21	1.38889E-03	44.72		
	47	2230.74	1.71875E-03	55.99		
	48	2271.58	1.42857E-03	64.49		
	49	2447.27	2.22222E-03	35.36	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.00	1460.81	*	10.67	1.48E+01	1.70E+00
IR-192	0.30	308.46		29.68		
		468.07	*	48.10	6.21E-02	7.88E-02
TL-208	0.96	583.14	*	30.22	3.47E-01	1.26E-01
		860.37	*	4.48	5.09E-01	5.21E-01
		2614.66	*	35.85	3.86E-01	1.16E-01
PB-210	0.99	46.50	*	4.25	1.29E+00	1.39E+00
BI-212	0.75	727.17	*	11.80	2.84E-01	2.30E-01
		1620.62		2.75		
PB-212	0.89	238.63	*	44.60	4.06E-01	7.23E-02
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	3.88E-01	1.11E-01
		1120.29	*	15.10	8.39E-01	3.31E-01
		1764.49	*	15.80	5.93E-01	2.45E-01
		2204.22	*	4.98	1.19E+00	5.91E-01
PB-214	0.99	295.21	*	19.19	5.44E-01	1.82E-01

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.99	351.92	*	37.19	6.71E-01	1.14E-01
RA-224	0.88	240.98	*	3.95	1.07E+00	6.21E-01
RA-226	0.99	186.21	*	3.28	1.74E+00	3.29E+00
AC-228	0.99	338.32	*	11.40	7.00E-01	2.89E-01
		911.07	*	27.70	4.67E-01	1.97E-01
		969.11	*	16.60	3.41E-01	2.36E-01
AM-243	0.98	74.67	*	66.00	1.24E-01	4.38E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	1.000	1.48E+01	1.70E+00	
IR-192	0.306	6.21E-02	7.88E-02	
TL-208	0.968	3.72E-01	8.42E-02	
PB-210	0.994	1.29E+00	1.39E+00	
BI-212	0.753	2.84E-01	2.30E-01	
PB-212	0.894	4.06E-01	7.23E-02	
BI-214	0.992	4.78E-01	9.57E-02	
PB-214	0.998	6.35E-01	9.65E-02	
RA-224	0.882	1.07E+00	6.21E-01	
RA-226	0.999	1.74E+00	3.29E+00	
AC-228	0.999	4.76E-01	1.34E-01	
AM-243	0.989	1.24E-01	4.38E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-03

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:26:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.41	1.34237E-02	56.46		
m	4	77.50	1.06453E-01	10.69	Tol.	TI-44
m	6	193.55	1.92816E-02	45.72		
	7	200.33	1.71046E-02	47.87		
	10	259.51	1.00658E-02	53.81		
	11	270.82	1.08170E-02	54.84		
	15	411.53	1.61700E-02	42.50	Tol.	HO-166M
	16	452.42	1.05393E-02	49.30		
M	17	461.58	7.85694E-03	41.59		
	19	510.98	1.30744E-02	56.59		
	22	625.45	6.96860E-03	60.19		
M	23	724.07	4.69500E-03	25.79	Tol.	EU-154
	25	770.35	2.19134E-02	24.78	Sum	
	26	794.33	1.25405E-02	33.75		
	27	804.31	7.93544E-03	48.60		
	28	855.94	3.61111E-03	59.86		
	31	934.71	1.42478E-02	27.98	Sum	
	32	950.15	5.00000E-03	53.58	S-Esc	
M	33	964.92	4.72424E-03	53.16	Tol.	EU-152
	36	1163.25	7.39464E-03	41.49		
	37	1294.63	4.02778E-03	54.58	Tol.	AR-41
	38	1377.54	8.66111E-03	34.15		
	40	1508.22	4.44444E-03	42.04	Sum	
	41	1575.71	2.63889E-03	51.70		
	42	1729.56	3.21970E-03	55.91	Sum	
	44	1847.29	2.34848E-03	46.57	Sum	
	45	2168.21	1.38889E-03	44.72		
	47	2230.74	1.71875E-03	55.99		
	48	2271.58	1.42857E-03	64.49		
	49	2447.27	2.22222E-03	35.36	Sum	

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	2.91E-01	5.92E-01	5.92E-01
+	NA-22	1274.54		99.94	-2.14E-02	5.15E-02	5.15E-02
+	NA-24	1368.53		99.99	-4.03E+14	2.20E+15	3.25E+15
		2754.09		99.86	2.50E+14		2.20E+15
+	AL-26	1808.65		99.76	1.45E-02	3.50E-02	3.50E-02
+	K-40	1460.81	*	10.67	1.48E+01	6.47E-01	6.47E-01
+ @	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.33E-02	4.47E-02	4.47E-02
		78.34		96.00	8.00E-02		5.23E-02
+	SC-46	889.25		99.98	5.98E-03	5.74E-02	5.74E-02
		1120.51		99.99	1.81E-01		1.17E-01
+	V-48	983.52		99.98	6.06E-03	2.05E-01	2.05E-01
		1312.10		97.50	-7.94E-02		2.33E-01
+	CR-51	320.08		9.83	-4.61E-01	7.17E-01	7.17E-01
+	MN-54	834.83		99.97	-1.38E-02	4.83E-02	4.83E-02
+	CO-56	846.75		99.96	9.06E-03	5.83E-02	5.83E-02
		1037.75		14.03	3.28E-02		4.71E-01
		1238.25		67.00	2.81E-02		1.40E-01
		1771.40		15.51	-4.04E-02		2.65E-01
		2598.48		16.90	2.14E-02		2.57E-01
+	CO-57	122.06		85.51	-3.36E-02	3.70E-02	3.70E-02
		136.48		10.60	5.36E-02		3.20E-01
+	CO-58	810.76		99.40	4.39E-03	5.58E-02	5.58E-02
+	FE-59	1099.22		56.50	4.18E-02	1.78E-01	1.78E-01
		1291.56		43.20	4.79E-02		2.15E-01
+	CO-60	1173.22		100.00	-1.10E-03	4.52E-02	5.55E-02
		1332.49		100.00	-1.38E-02		4.52E-02
+	ZN-65	1115.52		50.75	2.56E-02	1.30E-01	1.30E-01
+	GA-67	93.31		35.70	3.64E+02	2.00E+02	2.00E+02
		208.95		2.24	6.87E+02		2.73E+03
		300.22		16.00	4.35E+01		3.76E+02
+	SE-75	121.11		16.70	4.96E-02	6.32E-02	2.19E-01

Analysis Report for 1506114-03

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00	59.20	-1.24E-02	6.32E-02	6.32E-02
		264.65	59.80	3.22E-03		6.62E-02
		279.53	25.20	1.05E-02		1.60E-01
		400.65	11.40	-8.06E-03		3.53E-01
+	RB-82	776.52	13.00	-5.19E-02	8.56E-01	8.56E-01
+	RB-83	520.41	46.00	-1.23E-02	1.06E-01	1.06E-01
		529.64	30.30	-4.44E-02		1.63E-01
		552.65	16.40	1.24E-02		3.27E-01
+	KR-85	513.99	0.43	1.53E+01	1.35E+01	1.35E+01
+	SR-85	513.99	99.27	9.64E-02	8.56E-02	8.56E-02
+	Y-88	898.02	93.40	-8.35E-03	2.76E-02	5.96E-02
		1836.01	99.38	7.42E-04		2.76E-02
+	NB-93M	16.57	9.43	-1.32E+01	4.58E+01	4.58E+01
+	NB-94	702.63	100.00	2.23E-02	4.71E-02	4.81E-02
		871.10	100.00	-6.63E-03		4.71E-02
+	NB-95	765.79	99.81	9.85E-03	9.76E-02	9.76E-02
+	NB-95M	235.69	25.00	-5.56E+02	1.29E+02	1.29E+02
+	ZR-95	724.18	43.70	-9.83E-04	1.28E-01	1.52E-01
		756.72	55.30	2.09E-03		1.28E-01
+	MO-99	181.06	6.20	-3.93E+02	2.19E+03	3.78E+03
		739.58	12.80	5.71E+01		2.19E+03
		778.00	4.50	2.06E+02		6.23E+03
+	RU-103	497.08	89.00	2.66E-02	8.53E-02	8.53E-02
+	RU-106	621.84	9.80	-4.06E-02	4.76E-01	4.76E-01
+	AG-108M	433.93	89.90	-5.29E-05	4.19E-02	4.19E-02
		614.37	90.40	-2.86E-04		4.92E-02
		722.95	90.50	-8.84E-03		4.66E-02
+	CD-109	88.03	3.72	2.14E-01	1.13E+00	1.13E+00
+	AG-110M	657.75	93.14	-1.78E-02	5.26E-02	5.26E-02
		677.61	10.53	-1.26E-01		4.00E-01
		706.67	16.46	8.22E-02		3.38E-01
		763.93	21.98	-1.63E-03		2.13E-01
		884.67	71.63	-2.16E-02		6.33E-02
		1384.27	23.94	2.56E-02		1.86E-01
+	CD-113M	263.70	0.02	-2.65E+01	1.31E+02	1.31E+02
+	SN-113	255.12	1.93	2.30E-01	5.88E-02	2.08E+00
		391.69	64.90	8.42E-03		5.88E-02
+	TE123M	159.00	84.10	-1.34E-02	4.73E-02	4.73E-02
+	SB-124	602.71	97.87	2.28E-02	7.14E-02	7.14E-02
		645.85	7.26	-1.29E-01		8.65E-01
		722.78	11.10	-1.08E-01		5.69E-01
		1691.02	49.00	-1.76E-02		1.03E-01
+	I-125	35.49	6.49	-5.39E-01	2.00E+00	2.00E+00
+	SB-125	176.33	6.89	3.63E-01	1.33E-01	5.03E-01
		427.89	29.33	-2.20E-02		1.33E-01
		463.38	10.35	3.31E-02		4.38E-01
		600.56	17.80	2.45E-03		2.59E-01
		635.90	11.32	1.78E-01		3.78E-01

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		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		SB-126	414.70	83.30	6.00E-04	3.14E-01	3.52E-01
			666.33	99.60	-4.71E-02		3.29E-01
			695.00	99.60	9.81E-02		3.14E-01
			720.50	53.80	2.59E-02		5.75E-01
+		SN-126	87.57	37.00	2.04E-02	1.08E-01	1.08E-01
+		SB-127	473.00	25.00	9.33E+00	6.78E+01	7.92E+01
			685.20	35.70	2.14E+01		6.78E+01
			783.80	14.70	5.56E+01		1.70E+02
+		I-129	29.78	57.00	1.04E-01	3.15E-01	3.15E-01
			33.60	13.20	3.50E-01		8.48E-01
			39.58	7.52	1.22E-01		9.10E-01
+		I-131	284.30	6.05	-1.06E+00	8.26E-01	1.04E+01
			364.48	81.20	2.75E-01		8.26E-01
			636.97	7.26	5.58E-01		1.19E+01
			722.89	1.80	-9.13E+00		4.81E+01
+		TE-132	49.72	13.10	-8.29E+02	6.47E+01	6.65E+02
			228.16	88.00	4.30E+00		6.47E+01
+		BA-133	81.00	33.00	-5.05E-02	5.85E-02	1.13E-01
			302.84	17.80	-4.71E-02		1.89E-01
			356.01	60.00	1.57E-03		5.85E-02
+		I-133	529.87	86.30	-1.77E+10	6.50E+10	6.50E+10
+		CS-134	563.23	8.38	-6.45E-02	5.03E-02	4.61E-01
			569.32	15.43	1.58E-01		2.86E-01
			604.70	97.60	9.20E-03		5.03E-02
			795.84	85.40	1.23E-02		6.21E-02
			801.93	8.73	9.48E-02		5.98E-01
+		CS-135	268.24	16.00	1.09E-01	2.28E-01	2.28E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	1.31E+00	2.82E-01	2.87E+00
			163.89	4.61	-9.98E-02		4.31E+00
			176.55	13.56	1.14E+00		1.58E+00
			273.65	12.66	-1.44E-01		1.72E+00
			340.57	48.50	3.87E-01		5.11E-01
			818.50	99.70	-7.02E-02		2.82E-01
			1048.07	79.60	1.19E-01		4.04E-01
			1235.34	19.70	1.11E+00		2.39E+00
+		CS-137	661.65	85.12	-1.10E-02	5.44E-02	5.44E-02
+		LA-138	788.74	34.00	4.23E-02	5.29E-02	1.48E-01
			1435.80	66.00	-1.22E-02		5.29E-02
+		CE-139	165.85	80.35	2.90E-02	4.61E-02	4.61E-02
+		BA-140	162.64	6.70	6.18E-01	1.09E+00	3.18E+00
			304.84	4.50	1.13E+00		4.99E+00
			423.70	3.20	-6.09E-01		8.22E+00
			437.55	2.00	5.49E+00		1.31E+01
			537.32	25.00	5.63E-02		1.09E+00
+		LA-140	328.77	20.50	2.24E-01	2.63E-01	1.15E+00
			487.03	45.50	-3.41E-02		5.60E-01

Analysis Report for 1506114-03

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	815.85	23.50	1.81E-01	2.63E-01	1.28E+00
		1596.49	95.49	5.06E-02		2.63E-01
+	CE-141	145.44	48.40	-2.05E-02	1.44E-01	1.44E-01
+	CE-143	57.36	11.80	-8.36E+05	5.62E+06	1.72E+07
		293.26	42.00	1.21E+07		5.62E+06
		664.55	5.20	1.47E+07		4.32E+07
+	CE-144	133.54	10.80	3.00E-02	3.20E-01	3.20E-01
+	PM-144	476.78	42.00	5.23E-02	4.59E-02	9.84E-02
		618.01	98.60	-1.37E-02		4.59E-02
		696.49	99.49	-8.73E-03		4.60E-02
+	PM-145	36.85	21.70	-1.40E-01	1.91E-01	3.60E-01
		37.36	39.70	-1.38E-01		1.91E-01
		42.30	15.10	2.15E-02		4.10E-01
		72.40	2.31	-2.00E+00		1.94E+00
+	PM-146	453.90	39.94	1.51E-02	9.95E-02	9.95E-02
		735.90	14.01	-5.12E-02		2.83E-01
		747.13	13.10	-5.02E-03		3.34E-01
+	ND-147	91.11	28.90	-1.65E+00	1.34E+00	1.34E+00
		531.02	13.10	2.93E-01		2.70E+00
+	PM-149	285.90	3.10	-4.49E+03	5.88E+04	5.88E+04
+	EU-152	121.78	20.50	-1.29E-01	1.42E-01	1.42E-01
		244.69	5.40	6.77E-02		6.65E-01
		344.27	19.13	1.68E-02		1.59E-01
		778.89	9.20	4.08E-02		4.42E-01
		964.01	10.40	2.85E-02		5.08E-01
		1085.78	7.22	1.45E-01		7.97E-01
		1112.02	9.60	4.29E-01		5.99E-01
		1407.95	14.94	7.20E-02		2.91E-01
+	GD-153	97.43	31.30	3.60E-02	1.13E-01	1.13E-01
		103.18	22.20	2.45E-02		1.49E-01
+	EU-154	123.07	40.50	2.16E-02	7.46E-02	7.46E-02
		723.30	19.70	-4.09E-02		2.16E-01
		873.19	11.50	1.58E-01		4.22E-01
		996.32	10.30	-4.95E-02		5.28E-01
		1004.76	17.90	-1.82E-01		2.70E-01
		1274.45	35.50	-5.92E-02		1.42E-01
+	EU-155	86.50	30.90	-9.08E-02	1.28E-01	1.28E-01
		105.30	20.70	5.21E-02		1.48E-01
+	EU-156	811.77	10.40	7.75E-01	1.99E+00	1.99E+00
		1153.47	7.20	1.52E+00		4.35E+00
		1230.71	8.90	-7.30E-01		3.86E+00
+	HO-166M	184.41	72.60	9.14E-02	5.94E-02	5.94E-02
		280.45	29.60	-2.17E-02		1.07E-01
		410.94	11.10	2.38E-01		3.79E-01
		711.69	54.10	2.21E-02		8.86E-02
+	TM-171	66.72	0.14	-3.43E+01	3.21E+01	3.21E+01
+	HF-172	81.75	4.52	1.89E-01	2.79E-01	8.65E-01
		125.81	11.30	-1.76E-01		2.79E-01
+	LU-172	181.53	20.60	-8.26E-01	3.40E+00	6.15E+00

Analysis Report for 1506114-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-172	810.06		16.63	5.15E-01	3.40E+00	8.89E+00
		912.12		15.25	3.20E+01		2.07E+01
		1093.66		62.50	-8.26E-01		3.40E+00
+	LU-173	100.72		5.24	6.39E-02	1.83E-01	6.25E-01
		272.11		21.20	8.85E-02		1.83E-01
+	HF-175	343.40		84.00	-2.02E-02	4.92E-02	4.92E-02
+	LU-176	88.34		13.30	3.60E-01	3.47E-02	3.07E-01
		201.83		86.00	4.15E-04		3.87E-02
		306.78		94.00	-1.52E-02		3.47E-02
+	TA-182	67.75		41.20	3.76E-02	1.27E-01	1.27E-01
		1121.30		34.90	4.36E-01		3.09E-01
		1189.05		16.23	1.03E-01		5.30E-01
		1221.41		26.98	1.72E-02		3.21E-01
		1231.02		11.44	-1.42E-01		7.49E-01
+	IR-192	308.46		29.68	3.50E-02	1.58E-01	1.58E-01
		468.07	*	48.10	6.21E-02		2.02E-01
+	HG-203	279.19		77.30	2.58E-02	7.40E-02	7.40E-02
+	BI-207	569.67		97.72	1.02E-02	4.35E-02	4.35E-02
		1063.62		74.90	9.80E-03		7.32E-02
+	TL-208	583.14	*	30.22	3.47E-01	7.12E-02	1.75E-01
		860.37	*	4.48	5.09E-01		8.31E-01
		2614.66	*	35.85	3.86E-01		7.12E-02
+	BI-210M	262.00		45.00	-5.72E-04	6.99E-02	6.99E-02
		300.00		23.00	1.76E-02		1.52E-01
+	PB-210	46.50	*	4.25	1.29E+00	2.26E+00	2.26E+00
+	PB-211	404.84		2.90	-2.69E-01	1.08E+00	1.08E+00
		831.96		2.90	5.26E-01		1.68E+00
+	BI-212	727.17	*	11.80	2.84E-01	4.35E-01	4.35E-01
		1620.62		2.75	6.37E-01		1.54E+00
+	PB-212	238.63	*	44.60	4.06E-01	1.39E-01	1.39E-01
		300.09		3.41	1.19E-01		1.03E+00
+	BI-214	609.31	*	46.30	3.88E-01	1.51E-01	1.51E-01
		1120.29	*	15.10	8.39E-01		4.57E-01
		1764.49	*	15.80	5.93E-01		2.91E-01
		2204.22	*	4.98	1.19E+00		6.45E-01
+	PB-214	295.21	*	19.19	5.44E-01	1.22E-01	2.65E-01
		351.92	*	37.19	6.71E-01		1.22E-01
+	RN-219	401.80		6.50	2.08E-01	5.15E-01	5.15E-01
+	RA-223	323.87		3.88	-1.36E-01	8.48E-01	8.48E-01
+	RA-224	240.98	*	3.95	1.07E+00	1.55E+00	1.55E+00
+	RA-225	40.00		31.00	1.49E-01	1.11E+00	1.11E+00
+	RA-226	186.21	*	3.28	1.74E+00	2.53E+00	2.53E+00
+	TH-227	50.10		8.40	-7.37E-01	3.35E-01	5.91E-01
		236.00		11.50	-1.44E+00		3.35E-01
		256.20		6.30	4.84E-02		5.14E-01
+	AC-228	338.32	*	11.40	7.00E-01	2.88E-01	4.32E-01
		911.07	*	27.70	4.67E-01		2.88E-01
		969.11	*	16.60	3.41E-01		5.02E-01

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TH-230	48.44		16.90	2.99E-01	3.35E-01	3.35E-01
		62.85		4.60	1.04E+00		1.04E+00
		67.67		0.37	3.39E+00		1.14E+01
+	PA-231	283.67		1.60	1.91E-01	1.45E+00	1.95E+00
		302.67		2.30	-3.62E-01		1.45E+00
+	TH-231	25.64		14.70	-5.22E-01	5.96E-01	3.41E+00
		84.21		6.40	-6.93E-01		5.96E-01
+	PA-233	311.98		38.60	9.51E-02	2.13E-01	2.13E-01
+	PA-234	131.20		20.40	-1.16E-01	1.54E-01	1.54E-01
		733.99		8.80	-1.51E-01		4.48E-01
		946.00		12.00	2.09E-03		4.15E-01
+	PA-234M	1001.03		0.92	1.26E+00	5.94E+00	5.94E+00
+	TH-234	63.29		3.80	1.27E+00	1.26E+00	1.26E+00
+	U-235	143.76		10.50	1.45E-01	3.20E-01	3.20E-01
		163.35		4.70	-1.54E-02		6.65E-01
		205.31		4.70	-3.35E-01		6.76E-01
+	NP-237	86.50		12.60	-2.20E-01	3.10E-01	3.10E-01
+	NP-239	106.10		22.70	1.42E+03	4.04E+03	4.04E+03
		228.18		10.70	6.17E+02		9.30E+03
		277.60		14.10	-5.11E+02		7.19E+03
+	AM-241	59.54		35.90	-1.67E-01	1.18E-01	1.18E-01
+	AM-243	74.67	*	66.00	1.24E-01	9.74E-02	9.74E-02
+	CM-243	209.75		3.29	3.06E-01	2.40E-01	1.09E+00
		228.14		10.60	2.06E-02		3.11E-01
		277.60		14.00	-1.70E-02		2.40E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	5.92E-01	5.92E-01	2.91E-01	2.78E-01
	NA-22	1274.54		99.94	5.15E-02	5.15E-02	-2.14E-02	2.32E-02
	NA-24	1368.53		99.99	3.25E+15	2.20E+15	-4.03E+14	1.42E+15
		2754.09		99.86	2.20E+15		2.50E+14	8.25E+14
	AL-26	1808.65		99.76	3.50E-02	3.50E-02	1.45E-02	1.44E-02
+	K-40	1460.81	*	10.67	6.47E-01	6.47E-01	1.48E+01	2.98E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.47E-02	4.47E-02	1.33E-02	2.18E-02
		78.34		96.00	5.23E-02		8.00E-02	2.56E-02
	SC-46	889.25		99.98	5.74E-02	5.74E-02	5.98E-03	2.62E-02
		1120.51		99.99	1.17E-01		1.81E-01	5.55E-02
	V-48	983.52		99.98	2.05E-01	2.05E-01	6.06E-03	9.32E-02
		1312.10		97.50	2.33E-01		-7.94E-02	1.05E-01
	CR-51	320.08		9.83	7.17E-01	7.17E-01	-4.61E-01	3.37E-01
	MN-54	834.83		99.97	4.83E-02	4.83E-02	-1.38E-02	2.22E-02
	CO-56	846.75		99.96	5.83E-02	5.83E-02	9.06E-03	2.67E-02
		1037.75		14.03	4.71E-01		3.28E-02	2.15E-01
		1238.25		67.00	1.40E-01		2.81E-02	6.53E-02
		1771.40		15.51	2.65E-01		-4.04E-02	1.05E-01
		2598.48		16.90	2.57E-01		2.14E-02	9.96E-02
	CO-57	122.06		85.51	3.70E-02	3.70E-02	-3.36E-02	1.78E-02
		136.48		10.60	3.20E-01		5.36E-02	1.54E-01
	CO-58	810.76		99.40	5.58E-02	5.58E-02	4.39E-03	2.54E-02
	FE-59	1099.22		56.50	1.78E-01	1.78E-01	4.18E-02	8.22E-02
		1291.56		43.20	2.15E-01		4.79E-02	9.74E-02
	CO-60	1173.22		100.00	5.55E-02	4.52E-02	-1.10E-03	2.54E-02
		1332.49		100.00	4.52E-02		-1.38E-02	2.00E-02
	ZN-65	1115.52		50.75	1.30E-01	1.30E-01	2.56E-02	5.99E-02
	GA-67	93.31		35.70	2.00E+02	2.00E+02	3.64E+02	9.78E+01
		208.95		2.24	2.73E+03		6.87E+02	1.32E+03
		300.22		16.00	3.76E+02		4.35E+01	1.79E+02
	SE-75	121.11		16.70	2.19E-01	6.32E-02	4.96E-02	1.06E-01
		136.00		59.20	6.32E-02		-1.24E-02	3.05E-02
		264.65		59.80	6.62E-02		3.22E-03	3.16E-02
		279.53		25.20	1.60E-01		1.05E-02	7.60E-02
		400.65		11.40	3.53E-01		-8.06E-03	1.66E-01
	RB-82	776.52		13.00	8.56E-01	8.56E-01	-5.19E-02	3.94E-01
	RB-83	520.41		46.00	1.06E-01	1.06E-01	-1.23E-02	4.96E-02
		529.64		30.30	1.63E-01		-4.44E-02	7.62E-02
		552.65		16.40	3.27E-01		1.24E-02	1.53E-01
	KR-85	513.99		0.43	1.35E+01	1.35E+01	1.53E+01	6.49E+00
	SR-85	513.99		99.27	8.56E-02	8.56E-02	9.64E-02	4.10E-02
	Y-88	898.02		93.40	5.96E-02	2.76E-02	-8.35E-03	2.73E-02
		1836.01		99.38	2.76E-02		7.42E-04	9.76E-03
	NB-93M	16.57		9.43	4.58E+01	4.58E+01	-1.32E+01	2.11E+01
	NB-94	702.63		100.00	4.81E-02	4.71E-02	2.23E-02	2.25E-02
		871.10		100.00	4.71E-02		-6.63E-03	2.17E-02
	NB-95	765.79		99.81	9.76E-02	9.76E-02	9.85E-03	4.55E-02
	NB-95M	235.69		25.00	1.29E+02	1.29E+02	-5.56E+02	6.22E+01
	ZR-95	724.18		43.70	1.52E-01	1.28E-01	-9.83E-04	7.08E-02
		756.72		55.30	1.28E-01		2.09E-03	5.94E-02
	MO-99	181.06		6.20	3.78E+03	2.19E+03	-3.93E+02	1.82E+03
		739.58		12.80	2.19E+03		5.71E+01	1.01E+03

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
MO-99	778.00	4.50	6.23E+03	2.19E+03	2.06E+02	2.86E+03
RU-103	497.08	89.00	8.53E-02	8.53E-02	2.66E-02	4.02E-02
RU-106	621.84	9.80	4.76E-01	4.76E-01	-4.06E-02	2.23E-01
AG-108M	433.93	89.90	4.19E-02	4.19E-02	-5.29E-05	1.97E-02
	614.37	90.40	4.92E-02		-2.86E-04	2.30E-02
	722.95	90.50	4.66E-02		-8.84E-03	2.16E-02
CD-109	88.03	3.72	1.13E+00	1.13E+00	2.14E-01	5.51E-01
AG-110M	657.75	93.14	5.26E-02	5.26E-02	-1.78E-02	2.46E-02
	677.61	10.53	4.00E-01		-1.26E-01	1.84E-01
	706.67	16.46	3.38E-01		8.22E-02	1.59E-01
	763.93	21.98	2.13E-01		-1.63E-03	9.81E-02
	884.67	71.63	6.33E-02		-2.16E-02	2.88E-02
	1384.27	23.94	1.86E-01		2.56E-02	8.10E-02
CD-113M	263.70	0.02	1.31E+02	1.31E+02	-2.65E+01	6.24E+01
SN-113	255.12	1.93	2.08E+00	5.88E-02	2.30E-01	9.93E-01
	391.69	64.90	5.88E-02		8.42E-03	2.75E-02
TE123M	159.00	84.10	4.73E-02	4.73E-02	-1.34E-02	2.28E-02
SB-124	602.71	97.87	7.14E-02	7.14E-02	2.28E-02	3.36E-02
	645.85	7.26	8.65E-01		-1.29E-01	4.03E-01
	722.78	11.10	5.69E-01		-1.08E-01	2.63E-01
	1691.02	49.00	1.03E-01		-1.76E-02	4.21E-02
I-125	35.49	6.49	2.00E+00	2.00E+00	-5.39E-01	9.65E-01
SB-125	176.33	6.89	5.03E-01	1.33E-01	3.63E-01	2.42E-01
	427.89	29.33	1.33E-01		-2.20E-02	6.29E-02
	463.38	10.35	4.38E-01		3.31E-02	2.08E-01
	600.56	17.80	2.59E-01		2.45E-03	1.22E-01
	635.90	11.32	3.78E-01		1.78E-01	1.76E-01
SB-126	414.70	83.30	3.52E-01	3.14E-01	6.00E-04	1.67E-01
	666.33	99.60	3.29E-01		-4.71E-02	1.54E-01
	695.00	99.60	3.14E-01		9.81E-02	1.46E-01
	720.50	53.80	5.75E-01		2.59E-02	2.66E-01
SN-126	87.57	37.00	1.08E-01	1.08E-01	2.04E-02	5.26E-02
SB-127	473.00	25.00	7.92E+01	6.78E+01	9.33E+00	3.71E+01
	685.20	35.70	6.78E+01		2.14E+01	3.15E+01
	783.80	14.70	1.70E+02		5.56E+01	7.87E+01
I-129	29.78	57.00	3.15E-01	3.15E-01	1.04E-01	1.52E-01
	33.60	13.20	8.48E-01		3.50E-01	4.10E-01
	39.58	7.52	9.10E-01		1.22E-01	4.40E-01
I-131	284.30	6.05	1.04E+01	8.26E-01	-1.06E+00	4.95E+00
	364.48	81.20	8.26E-01		2.75E-01	3.89E-01
	636.97	7.26	1.19E+01		5.58E-01	5.55E+00
	722.89	1.80	4.81E+01		-9.13E+00	2.22E+01
TE-132	49.72	13.10	6.65E+02	6.47E+01	-8.29E+02	3.23E+02
	228.16	88.00	6.47E+01		4.30E+00	3.10E+01
BA-133	81.00	33.00	1.13E-01	5.85E-02	-5.05E-02	5.52E-02
	302.84	17.80	1.89E-01		-4.71E-02	8.98E-02
	356.01	60.00	5.85E-02		1.57E-03	2.77E-02
I-133	529.87	86.30	6.50E+10	6.50E+10	-1.77E+10	3.03E+10
CS-134	563.23	8.38	4.61E-01	5.03E-02	-6.45E-02	2.15E-01
	569.32	15.43	2.86E-01		1.58E-01	1.34E-01
	604.70	97.60	5.03E-02		9.20E-03	2.37E-02
	795.84	85.40	6.21E-02		1.23E-02	2.90E-02
	801.93	8.73	5.98E-01		9.48E-02	2.78E-01

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-135	268.24	16.00	2.28E-01	2.28E-01	1.09E-01	1.09E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	2.87E+00	2.82E-01	1.31E+00	1.39E+00
	163.89	4.61	4.31E+00		-9.98E-02	2.07E+00
	176.55	13.56	1.58E+00		1.14E+00	7.63E-01
	273.65	12.66	1.72E+00		-1.44E-01	8.22E-01
	340.57	48.50	5.11E-01		3.87E-01	2.44E-01
	818.50	99.70	2.82E-01		-7.02E-02	1.30E-01
	1048.07	79.60	4.04E-01		1.19E-01	1.85E-01
	1235.34	19.70	2.39E+00		1.11E+00	1.12E+00
CS-137	661.65	85.12	5.44E-02	5.44E-02	-1.10E-02	2.54E-02
LA-138	788.74	34.00	1.48E-01	5.29E-02	4.23E-02	6.89E-02
	1435.80	66.00	5.29E-02		-1.22E-02	2.23E-02
CE-139	165.85	80.35	4.61E-02	4.61E-02	2.90E-02	2.22E-02
BA-140	162.64	6.70	3.18E+00	1.09E+00	6.18E-01	1.53E+00
	304.84	4.50	4.99E+00		1.13E+00	2.37E+00
	423.70	3.20	8.22E+00		-6.09E-01	3.89E+00
	437.55	2.00	1.31E+01		5.49E+00	6.19E+00
	537.32	25.00	1.09E+00		5.63E-02	5.09E-01
LA-140	328.77	20.50	1.15E+00	2.63E-01	2.24E-01	5.46E-01
	487.03	45.50	5.60E-01		-3.41E-02	2.63E-01
	815.85	23.50	1.28E+00		1.81E-01	5.92E-01
	1596.49	95.49	2.63E-01		5.06E-02	1.11E-01
CE-141	145.44	48.40	1.44E-01	1.44E-01	-2.05E-02	6.99E-02
CE-143	57.36	11.80	1.72E+07	5.62E+06	-8.36E+05	8.38E+06
	293.26	42.00	5.62E+06		1.21E+07	2.72E+06
	664.55	5.20	4.32E+07		1.47E+07	2.03E+07
CE-144	133.54	10.80	3.20E-01	3.20E-01	3.00E-02	1.55E-01
PM-144	476.78	42.00	9.84E-02	4.59E-02	5.23E-02	4.62E-02
	618.01	98.60	4.59E-02		-1.37E-02	2.14E-02
	696.49	99.49	4.60E-02		-8.73E-03	2.13E-02
PM-145	36.85	21.70	3.60E-01	1.91E-01	-1.40E-01	1.73E-01
	37.36	39.70	1.91E-01		-1.38E-01	9.20E-02
	42.30	15.10	4.10E-01		2.15E-02	1.98E-01
	72.40	2.31	1.94E+00		-2.00E+00	9.48E-01
PM-146	453.90	39.94	9.95E-02	9.95E-02	1.51E-02	4.70E-02
	735.90	14.01	2.83E-01		-5.12E-02	1.30E-01
	747.13	13.10	3.34E-01		-5.02E-03	1.55E-01
ND-147	91.11	28.90	1.34E+00	1.34E+00	-1.65E+00	6.53E-01
	531.02	13.10	2.70E+00		2.93E-01	1.26E+00
PM-149	285.90	3.10	5.88E+04	5.88E+04	-4.49E+03	2.79E+04
EU-152	121.78	20.50	1.42E-01	1.42E-01	-1.29E-01	6.83E-02
	244.69	5.40	6.65E-01		6.77E-02	3.19E-01
	344.27	19.13	1.59E-01		1.68E-02	7.49E-02
	778.89	9.20	4.42E-01		4.08E-02	2.03E-01
	964.01	10.40	5.08E-01		2.85E-02	2.35E-01
	1085.78	7.22	7.97E-01		1.45E-01	3.68E-01
	1112.02	9.60	5.99E-01		4.29E-01	2.76E-01
	1407.95	14.94	2.91E-01		7.20E-02	1.28E-01
GD-153	97.43	31.30	1.13E-01	1.13E-01	3.60E-02	5.49E-02
	103.18	22.20	1.49E-01		2.45E-02	7.23E-02

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	123.07		40.50	7.46E-02	7.46E-02	2.16E-02	3.60E-02
		723.30		19.70	2.16E-01		-4.09E-02	9.98E-02
		873.19		11.50	4.22E-01		1.58E-01	1.95E-01
		996.32		10.30	5.28E-01		-4.95E-02	2.44E-01
		1004.76		17.90	2.70E-01		-1.82E-01	1.23E-01
		1274.45		35.50	1.42E-01		-5.92E-02	6.42E-02
	EU-155	86.50		30.90	1.28E-01	1.28E-01	-9.08E-02	6.25E-02
		105.30		20.70	1.48E-01		5.21E-02	7.16E-02
	EU-156	811.77		10.40	1.99E+00	1.99E+00	7.75E-01	9.13E-01
		1153.47		7.20	4.35E+00		1.52E+00	2.02E+00
		1230.71		8.90	3.86E+00		-7.30E-01	1.79E+00
	HO-166M	184.41		72.60	5.94E-02	5.94E-02	9.14E-02	2.88E-02
		280.45		29.60	1.07E-01		-2.17E-02	5.09E-02
		410.94		11.10	3.79E-01		2.38E-01	1.80E-01
		711.69		54.10	8.86E-02		2.21E-02	4.14E-02
	TM-171	66.72		0.14	3.21E+01	3.21E+01	-3.43E+01	1.57E+01
	HF-172	81.75		4.52	8.65E-01	2.79E-01	1.89E-01	4.22E-01
		125.81		11.30	2.79E-01		-1.76E-01	1.35E-01
	LU-172	181.53		20.60	6.15E+00	3.40E+00	-8.26E-01	2.97E+00
		810.06		16.63	8.89E+00		5.15E-01	4.05E+00
		912.12		15.25	2.07E+01		3.20E+01	9.85E+00
		1093.66		62.50	3.40E+00		-8.26E-01	1.57E+00
	LU-173	100.72		5.24	6.25E-01	1.83E-01	6.39E-02	3.03E-01
		272.11		21.20	1.83E-01		8.85E-02	8.77E-02
	HF-175	343.40		84.00	4.92E-02	4.92E-02	-2.02E-02	2.31E-02
	LU-176	88.34		13.30	3.07E-01	3.47E-02	3.60E-01	1.50E-01
		201.83		86.00	3.87E-02		4.15E-04	1.86E-02
		306.78		94.00	3.47E-02		-1.52E-02	1.65E-02
	TA-182	67.75		41.20	1.27E-01	1.27E-01	3.76E-02	6.17E-02
		1121.30		34.90	3.09E-01		4.36E-01	1.46E-01
		1189.05		16.23	5.30E-01		1.03E-01	2.47E-01
		1221.41		26.98	3.21E-01		1.72E-02	1.49E-01
		1231.02		11.44	7.49E-01		-1.42E-01	3.48E-01
+	IR-192	308.46		29.68	1.58E-01	1.58E-01	3.50E-02	7.49E-02
		468.07	*	48.10	2.02E-01		6.21E-02	9.78E-02
	HG-203	279.19		77.30	7.40E-02	7.40E-02	2.58E-02	3.53E-02
	BI-207	569.67		97.72	4.35E-02	4.35E-02	1.02E-02	2.04E-02
		1063.62		74.90	7.32E-02		9.80E-03	3.37E-02
+	TL-208	583.14	*	30.22	1.75E-01	7.12E-02	3.47E-01	8.33E-02
		860.37	*	4.48	8.31E-01		5.09E-01	3.75E-01
		2614.66	*	35.85	7.12E-02		3.86E-01	2.56E-02
	BI-210M	262.00		45.00	6.99E-02	6.99E-02	-5.72E-04	3.33E-02
		300.00		23.00	1.52E-01		1.76E-02	7.24E-02
+	PB-210	46.50	*	4.25	2.26E+00	2.26E+00	1.29E+00	1.11E+00
	PB-211	404.84		2.90	1.08E+00	1.08E+00	-2.69E-01	5.07E-01
		831.96		2.90	1.68E+00		5.26E-01	7.81E-01
+	BI-212	727.17	*	11.80	4.35E-01	4.35E-01	2.84E-01	2.04E-01
		1620.62		2.75	1.54E+00		6.37E-01	6.64E-01
+	PB-212	238.63	*	44.60	1.39E-01	1.39E-01	4.06E-01	6.80E-02
		300.09		3.41	1.03E+00		1.19E-01	4.88E-01
+	BI-214	609.31	*	46.30	1.51E-01	1.51E-01	3.88E-01	7.23E-02
		1120.29	*	15.10	4.57E-01		8.39E-01	2.14E-01
		1764.49	*	15.80	2.91E-01		5.93E-01	1.26E-01

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-214	2204.22	*	4.98	6.45E-01	1.51E-01	1.19E+00	2.53E-01
+	PB-214	295.21	*	19.19	2.65E-01	1.22E-01	5.44E-01	1.28E-01
		351.92	*	37.19	1.22E-01		6.71E-01	5.87E-02
	RN-219	401.80		6.50	5.15E-01	5.15E-01	2.08E-01	2.42E-01
	RA-223	323.87		3.88	8.48E-01	8.48E-01	-1.36E-01	4.02E-01
+	RA-224	240.98	*	3.95	1.55E+00	1.55E+00	1.07E+00	7.58E-01
	RA-225	40.00		31.00	1.11E+00	1.11E+00	1.49E-01	5.36E-01
+	RA-226	186.21	*	3.28	2.53E+00	2.53E+00	1.74E+00	1.25E+00
	TH-227	50.10		8.40	5.91E-01	3.35E-01	-7.37E-01	2.87E-01
		236.00		11.50	3.35E-01		-1.44E+00	1.62E-01
		256.20		6.30	5.14E-01		4.84E-02	2.45E-01
+	AC-228	338.32	*	11.40	4.32E-01	2.88E-01	7.00E-01	2.08E-01
		911.07	*	27.70	2.88E-01		4.67E-01	1.37E-01
		969.11	*	16.60	5.02E-01		3.41E-01	2.39E-01
	TH-230	48.44		16.90	3.35E-01	3.35E-01	2.99E-01	1.63E-01
		62.85		4.60	1.04E+00		1.04E+00	5.08E-01
		67.67		0.37	1.14E+01		3.39E+00	5.56E+00
	PA-231	283.67		1.60	1.95E+00	1.45E+00	1.91E-01	9.25E-01
		302.67		2.30	1.45E+00		-3.62E-01	6.90E-01
	TH-231	25.64		14.70	3.41E+00	5.96E-01	-5.22E-01	1.66E+00
		84.21		6.40	5.96E-01		-6.93E-01	2.91E-01
	PA-233	311.98		38.60	2.13E-01	2.13E-01	9.51E-02	1.01E-01
	PA-234	131.20		20.40	1.54E-01	1.54E-01	-1.16E-01	7.43E-02
		733.99		8.80	4.48E-01		-1.51E-01	2.06E-01
		946.00		12.00	4.15E-01		2.09E-03	1.91E-01
	PA-234M	1001.03		0.92	5.94E+00	5.94E+00	1.26E+00	2.75E+00
	TH-234	63.29		3.80	1.26E+00	1.26E+00	1.27E+00	6.15E-01
	U-235	143.76		10.50	3.20E-01	3.20E-01	1.45E-01	1.55E-01
		163.35		4.70	6.65E-01		-1.54E-02	3.21E-01
		205.31		4.70	6.76E-01		-3.35E-01	3.24E-01
	NP-237	86.50		12.60	3.10E-01	3.10E-01	-2.20E-01	1.51E-01
	NP-239	106.10		22.70	4.04E+03	4.04E+03	1.42E+03	1.95E+03
		228.18		10.70	9.30E+03		6.17E+02	4.45E+03
		277.60		14.10	7.19E+03		-5.11E+02	3.43E+03
	AM-241	59.54		35.90	1.18E-01	1.18E-01	-1.67E-01	5.75E-02
+	AM-243	74.67	*	66.00	9.74E-02	9.74E-02	1.24E-01	4.79E-02
	CM-243	209.75		3.29	1.09E+00	2.40E-01	3.06E-01	5.26E-01
		228.14		10.60	3.11E-01		2.06E-02	1.49E-01
		277.60		14.00	2.40E-01		-1.70E-02	1.14E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506114-03

FEEBRIS1D-09.099-100

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-09.099-100

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	47	57	86	229	288	288
25:	55	57	50	60	54	42	50	69
33:	65	49	51	39	47	49	52	56
41:	66	52	57	76	58	80	132	82
49:	76	82	76	67	80	96	67	63
57:	88	77	87	95	95	77	132	185
65:	120	101	102	123	99	99	84	96
73:	114	113	227	203	234	332	106	96
81:	86	100	83	123	99	83	117	144
89:	91	122	113	95	210	166	72	66
97:	62	71	82	76	61	66	50	62
105:	63	66	57	62	60	71	56	64
113:	63	63	62	59	61	63	66	48
121:	50	61	57	46	67	54	50	69
129:	75	62	56	66	64	46	69	52
137:	59	45	53	57	52	71	57	63
145:	75	48	57	58	66	43	47	55
153:	59	52	66	67	56	44	57	57
161:	51	51	42	54	51	40	46	40
169:	34	39	38	31	46	42	50	48
177:	52	53	54	39	56	52	54	46
185:	62	128	113	50	34	39	36	44
193:	43	61	48	32	28	33	52	48
201:	39	40	45	40	36	37	44	31
209:	54	52	51	47	42	40	44	41
217:	40	30	40	27	32	39	42	40
225:	40	38	37	39	36	26	32	30
233:	39	46	33	39	39	78	256	95
241:	47	76	59	35	29	28	40	35
249:	25	28	31	27	30	34	30	26
257:	28	28	34	30	36	15	24	28
265:	31	22	34	28	29	40	45	42
273:	20	30	32	27	35	28	27	23
281:	30	25	18	27	21	26	21	18
289:	24	25	19	22	21	31	95	128
297:	26	26	30	29	34	18	25	22
305:	24	29	23	20	19	31	29	20
313:	17	21	16	21	17	18	12	20
321:	18	18	28	24	15	23	28	24
329:	38	19	13	23	25	22	16	28
337:	24	50	64	30	18	20	12	15
345:	14	16	26	21	13	28	42	221
353:	160	30	14	27	17	18	17	22
361:	20	21	24	19	14	17	15	13

369:	10	13	19	13	23	15	17	16

Sample Title: FEEBRIS1D-09.099-100

Channel								
377:	25	20	19	11	17	28	10	18
385:	14	16	22	8	18	12	16	11
393:	20	12	15	11	13	11	13	16
401:	14	22	13	16	21	5	15	16
409:	14	17	16	22	20	22	12	20
417:	13	11	15	20	16	12	12	18
425:	18	14	15	18	10	10	12	15
433:	15	8	16	14	12	15	16	17
441:	9	11	11	9	11	15	8	8
449:	13	13	10	20	14	20	8	16
457:	6	13	11	8	21	18	21	19
465:	17	10	11	23	17	9	13	10
473:	6	8	9	18	13	10	17	9
481:	10	8	13	9	10	12	17	16
489:	9	6	12	13	14	9	14	16
497:	15	12	10	13	8	9	7	12
505:	6	13	8	9	25	30	57	44
513:	29	19	12	7	10	13	9	15
521:	10	5	6	8	13	9	8	4
529:	9	14	5	10	16	13	9	12
537:	17	12	4	14	9	9	7	10
545:	10	8	7	14	11	9	13	12
553:	4	15	12	8	10	7	6	9
561:	3	11	14	7	10	6	10	13
569:	10	20	10	9	5	9	12	7
577:	11	12	8	8	9	17	61	60
585:	10	10	12	10	8	9	6	14
593:	9	16	9	12	7	12	8	12
601:	11	6	14	17	13	13	6	20
609:	83	124	19	9	8	18	8	11
617:	8	13	7	9	11	8	12	11
625:	13	22	8	9	9	6	3	4
633:	8	13	10	8	7	8	8	9
641:	7	14	7	5	7	6	8	14
649:	14	8	9	7	7	8	6	12
657:	11	12	11	6	9	13	16	10
665:	7	15	8	7	8	11	11	11
673:	5	8	9	4	5	3	8	8
681:	9	9	10	12	9	9	6	6
689:	4	8	9	8	7	9	10	5
697:	13	8	3	8	11	9	8	10
705:	11	14	11	7	10	15	12	9
713:	5	8	10	10	6	14	7	5
721:	7	7	2	13	3	14	14	20
729:	7	8	5	13	3	4	5	9
737:	4	5	12	4	10	4	7	8
745:	4	8	8	4	7	12	4	14
753:	10	7	8	10	10	11	11	6
761:	5	8	4	4	5	7	14	13
769:	16	16	6	15	10	12	7	8
777:	5	5	4	6	7	6	5	5
785:	5	9	15	9	4	3	11	13
793:	5	16	14	4	6	8	13	3

801:	8	5	12	16	6	11	7	3

Sample Title: FEEBRIS1D-09.099-100

Channel								
809:	5	1	7	7	6	7	8	8
817:	3	9	7	9	2	8	10	6
825:	5	7	6	7	10	5	13	8
833:	7	4	8	6	6	6	6	8
841:	6	6	4	7	9	4	4	8
849:	4	4	7	3	6	3	10	8
857:	10	3	5	8	18	8	4	8
865:	9	7	9	10	2	8	9	6
873:	6	6	8	6	4	5	8	7
881:	5	10	5	0	6	3	6	4
889:	3	10	5	6	5	8	6	6
897:	8	3	3	8	5	4	8	6
905:	9	6	9	7	10	17	62	43
913:	7	5	4	11	5	7	6	4
921:	10	6	6	6	7	9	5	8
929:	1	5	9	9	11	12	13	6
937:	7	5	8	3	1	3	5	4
945:	7	9	4	6	11	9	13	7
953:	2	8	9	5	9	9	2	8
961:	4	8	2	8	14	8	6	14
969:	26	15	9	8	5	13	5	11
977:	3	3	6	3	1	6	4	2
985:	7	4	10	4	6	6	4	3
993:	10	5	8	6	7	7	7	8
1001:	13	4	9	3	7	5	6	4
1009:	7	7	11	6	2	8	7	2
1017:	5	4	6	6	4	4	5	5
1025:	4	2	5	6	4	5	4	7
1033:	10	4	2	5	7	3	6	8
1041:	6	5	1	2	6	11	6	4
1049:	3	5	5	7	5	4	12	4
1057:	3	3	4	9	3	9	9	6
1065:	11	3	5	5	6	8	9	5
1073:	5	10	7	3	8	8	7	10
1081:	3	5	4	11	7	8	10	4
1089:	5	9	6	12	5	7	6	5
1097:	6	8	9	8	8	6	8	3
1105:	4	8	3	5	5	8	6	8
1113:	4	8	8	1	4	9	17	32
1121:	33	14	6	3	7	8	8	7
1129:	4	10	3	7	8	7	6	13
1137:	3	7	8	7	5	7	7	3
1145:	8	4	2	4	3	8	7	6
1153:	7	7	17	3	10	6	4	6
1161:	10	7	4	14	10	3	3	7
1169:	5	8	8	9	3	5	3	3
1177:	7	4	11	7	1	6	9	13
1185:	2	7	9	8	11	6	9	14
1193:	9	8	2	9	10	4	5	9
1201:	4	6	8	12	4	7	9	8
1209:	10	6	5	8	11	9	6	7
1217:	9	7	9	9	10	9	8	10
1225:	8	10	7	12	7	7	5	8

1233:	9	12	9	12	6	13	10	6

Sample Title: FEEBRIS1D-09.099-100

Channel								
1241:	3	7	4	11	4	4	5	6
1249:	4	7	2	5	7	4	10	4
1257:	6	5	4	4	4	3	4	4
1265:	5	3	3	4	2	6	3	2
1273:	6	5	3	5	4	3	11	8
1281:	4	10	2	7	5	4	6	7
1289:	5	4	1	4	4	7	7	7
1297:	2	3	3	7	2	2	5	3
1305:	5	4	7	3	5	3	5	3
1313:	3	3	4	2	8	5	6	4
1321:	2	4	4	3	2	3	6	6
1329:	4	1	3	0	5	3	4	1
1337:	3	4	3	2	4	0	4	3
1345:	5	0	4	1	3	2	0	0
1353:	3	2	4	2	2	4	6	5
1361:	1	3	2	3	3	2	0	3
1369:	5	1	3	3	2	2	6	2
1377:	10	8	6	3	2	3	0	2
1385:	1	5	2	3	1	2	1	2
1393:	2	2	1	5	5	1	3	4
1401:	5	3	0	1	1	1	2	5
1409:	1	2	5	3	3	1	1	0
1417:	0	4	0	0	3	0	2	4
1425:	2	3	4	0	1	4	2	2
1433:	2	2	1	1	1	2	1	3
1441:	1	3	3	1	1	2	3	1
1449:	2	4	3	2	2	2	2	4
1457:	5	8	63	259	331	104	21	4
1465:	2	1	2	0	1	2	2	0
1473:	2	1	1	1	4	0	4	0
1481:	1	3	2	0	0	0	2	0
1489:	0	2	1	1	0	2	1	0
1497:	1	0	1	1	0	2	0	1
1505:	3	4	2	3	7	5	0	2
1513:	2	1	1	2	0	3	1	1
1521:	0	1	2	1	0	1	0	2
1529:	2	0	3	0	1	1	1	2
1537:	0	2	5	4	1	1	4	1
1545:	0	2	2	2	1	1	0	1
1553:	1	1	1	2	2	1	0	0
1561:	0	0	2	0	1	0	1	1
1569:	3	0	1	0	2	1	3	2
1577:	3	2	0	1	4	2	4	0
1585:	4	0	2	8	2	3	3	1
1593:	3	1	3	1	0	1	1	1
1601:	0	0	1	0	2	0	1	0
1609:	1	2	0	1	2	0	1	2
1617:	3	0	0	2	4	3	1	0
1625:	0	1	2	2	1	2	2	1
1633:	1	0	0	2	0	2	2	1
1641:	0	0	1	0	1	2	2	0
1649:	2	1	0	1	0	1	0	2
1657:	0	1	0	2	2	1	1	1

1665:	1	0	0	0	1	2	0	0

Sample Title: FEEBRIS1D-09.099-100

Channel								
1673:	0	2	2	1	1	1	0	0
1681:	0	0	1	1	1	2	0	2
1689:	2	1	1	0	0	1	2	1
1697:	0	1	1	1	1	1	1	1
1705:	1	2	0	1	0	0	1	1
1713:	0	0	1	1	0	0	1	0
1721:	1	1	2	2	1	1	2	3
1729:	5	8	0	1	0	3	1	2
1737:	2	1	0	1	1	1	1	1
1745:	0	0	2	1	1	0	1	0
1753:	1	0	1	0	0	2	2	0
1761:	1	2	8	20	13	2	1	1
1769:	1	0	0	1	1	1	1	1
1777:	1	1	1	0	1	0	0	2
1785:	0	2	0	0	1	0	0	1
1793:	1	1	1	2	2	0	1	2
1801:	0	3	0	1	4	0	0	1
1809:	2	0	0	0	0	2	0	0
1817:	0	3	0	1	0	0	0	0
1825:	1	1	3	1	1	1	0	0
1833:	0	0	0	1	1	0	0	0
1841:	1	2	1	1	1	2	5	2
1849:	0	0	0	2	0	1	1	2
1857:	3	1	0	0	0	0	0	0
1865:	0	1	3	3	2	1	1	0
1873:	2	0	0	1	1	1	3	1
1881:	0	1	3	0	0	0	0	1
1889:	0	2	2	1	0	1	0	0
1897:	1	0	0	2	1	1	0	0
1905:	0	2	1	1	0	0	3	0
1913:	1	1	0	1	1	2	0	0
1921:	0	3	1	1	1	0	0	1
1929:	1	1	1	1	0	1	0	3
1937:	0	0	1	0	1	2	0	0
1945:	1	1	0	1	0	0	2	1
1953:	0	4	0	0	1	0	0	1
1961:	1	2	0	1	1	0	1	0
1969:	1	0	0	0	1	2	0	0
1977:	1	0	0	1	0	0	0	0
1985:	0	0	0	1	1	0	2	0
1993:	0	0	0	2	1	0	2	2
2001:	0	2	1	1	0	0	1	0
2009:	1	2	1	0	0	1	0	0
2017:	0	2	0	0	1	0	2	0
2025:	1	0	1	0	0	1	1	0
2033:	0	0	0	0	0	2	1	1
2041:	0	0	1	0	0	1	0	0
2049:	0	0	0	0	1	2	0	2
2057:	1	0	0	0	0	0	1	0
2065:	1	0	1	1	1	0	2	1
2073:	0	0	1	2	1	1	1	1
2081:	1	1	0	0	0	1	0	0
2089:	1	0	0	0	3	1	0	0

2097:	0	2	1	1	0	1	4	4

Sample Title: FEEBRIS1D-09.099-100

Channel								
2105:	0	1	0	0	1	2	0	1
2113:	1	0	0	2	1	1	1	0
2121:	2	2	0	0	0	0	1	3
2129:	1	1	0	1	0	0	0	0
2137:	0	0	0	1	2	0	1	1
2145:	0	1	0	0	1	0	0	0
2153:	0	2	0	1	1	1	0	0
2161:	0	2	0	0	0	0	2	2
2169:	1	0	0	0	0	0	0	1
2177:	0	1	1	0	0	2	0	1
2185:	0	0	1	1	1	1	1	2
2193:	0	0	0	0	0	1	0	0
2201:	1	1	3	10	6	2	1	1
2209:	1	0	1	2	1	0	1	2
2217:	0	0	1	0	0	2	0	1
2225:	0	0	1	0	0	4	0	3
2233:	0	1	0	1	0	0	0	2
2241:	1	0	1	0	0	1	1	0
2249:	0	0	3	0	2	0	1	1
2257:	0	0	1	0	1	1	2	2
2265:	0	0	0	0	0	3	0	3
2273:	1	0	1	2	1	1	0	0
2281:	0	2	0	1	2	1	0	2
2289:	0	2	0	0	0	0	0	1
2297:	1	1	0	2	1	1	0	2
2305:	1	0	2	0	1	0	1	1
2313:	0	0	1	2	1	0	2	0
2321:	0	1	2	1	0	0	0	0
2329:	0	1	0	2	0	0	0	0
2337:	0	1	1	0	0	0	0	0
2345:	0	2	0	2	1	1	0	0
2353:	0	0	0	0	0	1	0	0
2361:	1	0	0	0	0	1	0	1
2369:	1	1	1	0	0	1	3	4
2377:	0	0	2	0	2	0	0	0
2385:	0	1	2	0	1	1	1	0
2393:	0	0	1	1	1	0	2	0
2401:	1	0	1	0	0	1	2	1
2409:	0	1	0	0	1	0	0	2
2417:	0	0	0	0	0	0	0	3
2425:	2	1	0	2	0	2	0	2
2433:	0	1	2	1	0	0	0	0
2441:	1	0	0	0	0	3	4	1
2449:	0	0	0	0	1	0	1	0
2457:	0	1	0	1	0	0	1	1
2465:	1	0	0	1	0	1	3	0
2473:	0	0	0	0	0	0	0	1
2481:	0	0	1	0	1	0	1	1
2489:	0	0	0	0	0	0	0	2
2497:	0	0	0	1	0	0	1	0
2505:	1	0	1	0	1	0	0	0
2513:	2	0	0	0	0	0	1	0
2521:	1	0	1	0	0	0	0	0

2529:	0	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-09.099-100

Channel								
2537:	0	1	1	0	0	0	1	0
2545:	0	0	0	1	0	0	0	0
2553:	1	0	0	0	0	0	0	0
2561:	0	0	1	0	0	0	0	0
2569:	0	0	0	1	0	0	0	0
2577:	0	0	0	0	0	1	0	0
2585:	1	0	0	0	1	1	0	1
2593:	0	0	1	0	1	0	0	1
2601:	1	0	1	0	0	0	0	0
2609:	0	0	3	11	19	9	9	4
2617:	1	0	0	1	0	1	0	0
2625:	0	0	1	0	1	0	0	0
2633:	1	0	0	0	0	0	0	0
2641:	0	0	0	0	0	1	1	0
2649:	0	0	1	1	0	0	0	1
2657:	1	1	0	0	1	1	0	0
2665:	0	0	1	0	0	1	0	0
2673:	1	0	0	0	1	1	0	0
2681:	1	0	0	1	0	0	0	1
2689:	0	0	0	0	0	0	0	0
2697:	2	0	1	0	0	1	1	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	1	0
2737:	0	0	0	1	0	0	1	0
2745:	1	0	1	1	0	1	0	1
2753:	1	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	1	0
2769:	1	1	0	0	0	1	1	0
2777:	1	0	0	0	0	0	0	0
2785:	0	0	0	1	0	0	0	1
2793:	0	0	0	0	0	0	0	0
2801:	2	0	0	0	0	0	0	0
2809:	1	0	0	2	0	1	0	2
2817:	0	0	0	1	1	2	0	0
2825:	0	0	0	0	0	1	0	1
2833:	0	1	0	1	0	0	1	0
2841:	0	0	0	0	0	1	0	0
2849:	1	1	0	0	0	1	0	0
2857:	0	0	1	0	0	0	0	0
2865:	1	1	0	0	0	0	0	0
2873:	0	0	0	0	0	1	0	0
2881:	0	0	0	0	1	0	0	0
2889:	1	0	0	0	2	1	0	1
2897:	0	1	0	0	0	0	0	0
2905:	0	0	1	0	0	0	0	0
2913:	2	1	0	0	0	2	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	1	0	0	0	0	0
2937:	0	0	0	0	1	0	0	0
2945:	0	0	0	0	0	0	0	1
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-09.099-100

Channel								
2969:	0	1	0	1	1	0	0	0
2977:	0	0	2	0	1	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	1	0	0	0	0	0	0	0
3001:	0	0	0	0	0	1	0	0
3009:	1	0	0	0	0	2	0	0
3017:	0	0	0	0	0	0	0	1
3025:	0	0	1	1	0	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	1	0	0
3049:	0	0	0	1	0	0	0	0
3057:	0	0	1	0	0	0	0	0
3065:	0	0	0	0	0	0	1	0
3073:	0	1	0	0	1	0	0	0
3081:	1	0	0	0	0	0	0	0
3089:	0	0	0	1	0	0	0	1
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	1	0
3113:	0	0	0	1	0	0	0	0
3121:	1	0	0	0	1	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	1	0	0	0	0	0	0
3153:	0	1	2	0	0	0	0	0
3161:	0	1	0	0	0	0	0	0
3169:	0	0	0	0	0	1	0	0
3177:	0	1	0	1	0	0	1	0
3185:	0	0	1	0	0	0	0	0
3193:	0	0	0	0	0	1	0	0
3201:	0	0	0	0	0	0	0	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	2	0	0	0	0	0
3225:	0	0	0	0	0	1	1	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	1	0	0	0
3249:	0	0	0	0	0	1	0	0
3257:	0	0	0	0	0	0	2	1
3265:	0	0	0	0	1	1	0	0
3273:	0	0	0	1	0	0	1	0
3281:	0	0	0	0	1	0	0	0
3289:	0	0	0	0	1	2	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	1	0	0	2	0	0
3313:	1	0	0	0	0	0	0	0
3321:	0	1	0	0	0	0	0	0
3329:	1	1	0	0	0	0	0	0
3337:	0	0	0	1	1	0	0	0
3345:	0	0	0	0	0	0	0	1
3353:	0	1	0	1	0	0	1	0
3361:	0	0	0	0	0	1	0	0
3369:	0	0	0	1	0	0	0	0
3377:	1	0	0	0	0	0	0	0
3385:	0	0	1	1	1	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-09.099-100

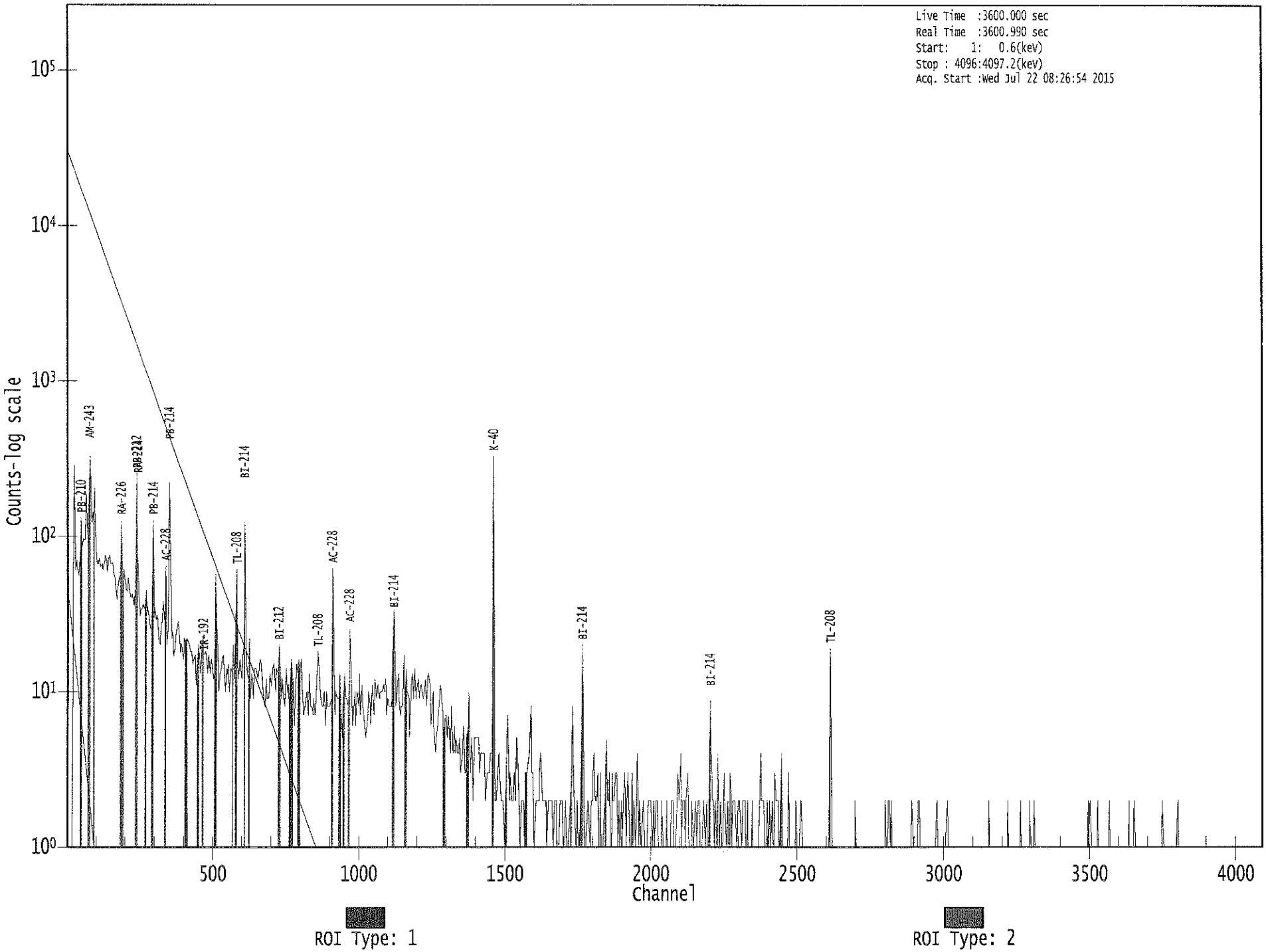
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	1	0	0	0	0
3433:	0	1	0	0	1	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	1	0	0	0	0	0	1
3481:	0	0	1	0	0	1	0	0
3489:	0	0	0	0	0	0	2	0
3497:	1	0	0	0	0	2	1	0
3505:	0	0	0	1	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	1	0	2
3529:	0	0	1	0	0	1	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	1	0	0	0	0	0
3553:	0	1	0	0	0	0	0	1
3561:	0	0	0	0	0	0	0	2
3569:	1	0	1	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	1	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	1	0	0	0	0	0	0
3633:	0	0	1	2	1	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	1	0	2	0	0	0
3657:	0	0	1	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	1	0	0	0	0	0	0	1
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	1	0
3697:	0	0	1	1	0	0	0	0
3705:	0	0	0	1	0	0	0	0
3713:	0	1	0	0	0	0	0	0
3721:	0	0	1	0	0	0	0	0
3729:	0	0	0	0	0	1	0	0
3737:	0	0	0	1	0	1	0	0
3745:	0	0	0	0	0	2	0	0
3753:	0	0	0	1	0	0	0	0
3761:	0	0	0	1	0	0	0	0
3769:	0	1	0	1	0	0	1	0
3777:	0	0	1	0	1	0	0	0
3785:	0	0	0	0	0	1	0	0
3793:	0	0	0	0	0	1	0	0
3801:	0	0	0	2	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-09.099-100

Channel								
3833:	0	1	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	1	0	1	0	0	0	0	0
3857:	0	0	0	0	0	0	1	0
3865:	0	1	0	0	0	0	0	0
3873:	0	0	0	1	1	0	0	0
3881:	0	0	0	0	0	0	1	0
3889:	0	0	0	1	0	0	0	0
3897:	1	0	0	0	1	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	1	0	1	0	0	0
3921:	0	1	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	1	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	1	0	1	1	0	0	1
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	1	0	0	1	0
4001:	0	0	0	1	0	1	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	1	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	1	0	0	0	1
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	1
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	1	0	0
4081:	0	0	0	0	1	0	0	0
4089:	0	0	0	0	0	0	1	0

0000024969.CNF



KLP 7/22/15

Apex-Gamma

Analysis Report for 1506114-04
FEEBRIS1D-09.099-100

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-04
Sample Description	: FEEBRIS1D-09.099-100
Sample Type	: SOIL
Sample Size	: 7.441E+02 grams
Facility	: Countroom
Sample Taken On	: 6/17/2015 7:36:45AM
Acquisition Started	: 7/22/2015 9:29:04AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24975

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 10:29:08AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	68.10	68.45	0.0000	0.00
2	76.07	76.41	0.0000	0.00
3	88.05	88.39	0.0000	0.00
4	143.92	144.24	0.0000	0.00
5	185.11	185.41	0.0000	0.00
6	216.94	217.24	0.0000	0.00
7	238.74	239.02	0.0000	0.00
8	241.75	242.04	0.0000	0.00
9	256.12	256.40	0.0000	0.00
10	295.29	295.56	0.0000	0.00
11	326.91	327.17	0.0000	0.00
12	339.39	339.64	0.0000	0.00
13	352.17	352.42	0.0000	0.00
14	369.36	369.60	0.0000	0.00
15	463.12	463.34	0.0000	0.00
16	552.70	552.88	0.0000	0.00
17	583.01	583.18	0.0000	0.00
18	585.65	585.82	0.0000	0.00
19	602.07	602.24	0.0000	0.00
20	609.43	609.59	0.0000	0.00
21	659.83	659.97	0.0000	0.00
22	671.22	671.36	0.0000	0.00
23	726.95	727.07	0.0000	0.00
24	769.19	769.29	0.0000	0.00
25	811.56	811.65	0.0000	0.00
26	911.35	911.41	0.0000	0.00
27	925.36	925.41	0.0000	0.00
28	969.13	969.16	0.0000	0.00
29	973.17	973.20	0.0000	0.00
30	1000.32	1000.34	0.0000	0.00
31	1079.24	1079.24	0.0000	0.00
32	1120.65	1120.63	0.0000	0.00
33	1132.41	1132.39	0.0000	0.00
34	1235.66	1235.60	0.0000	0.00
35	1245.53	1245.46	0.0000	0.00
36	1377.85	1377.74	0.0000	0.00
37	1460.91	1460.77	0.0000	0.00
38	1661.62	1661.40	0.0000	0.00
39	1698.23	1698.00	0.0000	0.00
40	1730.01	1729.77	0.0000	0.00
41	1764.59	1764.33	0.0000	0.00
42	1773.26	1773.00	0.0000	0.00

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	2119.39	2119.00	0.0000	0.00
44	2578.90	2578.33	0.0000	0.00
45	2614.01	2613.43	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:29:08AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
m	1	68.10	59 -	81	68.45	1.90E+02	116.39	1.70E+03	3.41
m	2	76.07	59 -	81	76.41	5.30E+02	122.00	1.73E+03	3.44
M	3	88.05	83 -	97	88.39	2.02E+02	90.00	1.23E+03	2.63
	4	143.92	141 -	148	144.24	7.33E+01	72.42	8.27E+02	2.39
	5	185.11	180 -	190	185.41	1.89E+02	86.53	9.00E+02	2.32
	6	216.94	213 -	222	217.24	6.81E+01	67.88	6.18E+02	7.25
M	7	238.74	235 -	246	239.02	3.96E+02	56.58	3.17E+02	1.68
m	8	241.75	235 -	246	242.04	9.78E+01	48.14	2.75E+02	1.68
	9	256.12	253 -	258	256.40	3.96E+01	40.27	2.91E+02	1.17
	10	295.29	292 -	299	295.56	1.96E+02	54.30	3.54E+02	1.51
	11	326.91	322 -	332	327.17	5.61E+01	57.26	4.08E+02	3.99
	12	339.39	334 -	344	339.64	8.65E+01	56.79	3.81E+02	1.95
	13	352.17	348 -	357	352.42	4.37E+02	61.57	2.84E+02	1.99
	14	369.36	359 -	383	369.60	1.09E+02	92.73	5.66E+02	18.95
	15	463.12	461 -	467	463.34	3.79E+01	29.90	1.32E+02	2.61
	16	552.70	550 -	555	552.88	1.69E+01	20.17	6.62E+01	2.94
M	17	583.01	580 -	589	583.18	1.28E+02	31.62	9.60E+01	1.96
m	18	585.65	580 -	589	585.82	2.62E+01	32.37	9.60E+01	1.96
M	19	602.07	599 -	615	602.24	2.02E+01	21.91	7.20E+01	2.63
m	20	609.43	599 -	615	609.59	3.14E+02	38.94	7.20E+01	2.11
	21	659.83	657 -	664	659.97	2.48E+01	26.08	9.84E+01	4.52
	22	671.22	667 -	677	671.36	2.77E+01	31.71	1.15E+02	2.78
	23	726.95	723 -	734	727.07	4.04E+01	36.93	1.51E+02	2.66
	24	769.19	765 -	774	769.29	3.18E+01	34.80	1.54E+02	2.19
	25	811.56	807 -	815	811.65	2.18E+01	25.79	8.64E+01	2.75
M	26	911.35	907 -	929	911.41	7.45E+01	25.54	6.79E+01	2.33
m	27	925.36	907 -	929	925.41	1.45E+01	18.87	4.05E+01	2.38
M	28	969.13	966 -	978	969.16	6.97E+01	26.25	1.01E+02	1.97
m	29	973.17	966 -	978	973.20	1.41E+01	24.72	6.14E+01	2.19
	30	1000.32	997 -	1003	1000.34	2.82E+01	19.58	4.95E+01	2.85
	31	1079.24	1077 -	1083	1079.24	1.89E+01	17.64	4.43E+01	2.63
	32	1120.65	1117 -	1126	1120.63	3.70E+01	33.59	1.40E+02	1.90
	33	1132.41	1129 -	1136	1132.39	2.05E+01	21.35	5.90E+01	3.69
	34	1235.66	1231 -	1239	1235.60	2.47E+01	29.16	1.13E+02	1.10
	35	1245.53	1242 -	1250	1245.46	2.34E+01	25.39	8.33E+01	1.90
	36	1377.85	1374 -	1380	1377.74	2.03E+01	13.91	1.94E+01	1.57
	37	1460.91	1454 -	1467	1460.77	8.16E+02	60.85	4.81E+01	2.44
	38	1661.62	1657 -	1666	1661.40	1.12E+01	11.96	1.16E+01	7.58
	39	1698.23	1693 -	1703	1698.00	9.50E+00	10.98	1.10E+01	2.96
	40	1730.01	1726 -	1733	1729.77	1.97E+01	12.17	1.06E+01	2.88

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1764.59	1759 -	1769	1764.33	5.42E+01	16.07	5.56E+00	2.00
42	1773.26	1771 -	1775	1773.00	6.50E+00	6.96	5.00E+00	2.42
43	2119.39	2116 -	2121	2119.00	6.00E+00	4.90	0.00E+00	2.88
44	2578.90	2574 -	2580	2578.33	6.00E+00	4.90	0.00E+00	1.92
45	2614.01	2609 -	2618	2613.43	3.67E+01	14.63	8.54E+00	2.69

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:29:08AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	1	68.10	59 -	81	1.90E+02	116.39	1.70E+03	6.79E+01
m	2	76.07	59 -	81	5.30E+02	122.00	1.73E+03	6.84E+01
M	3	88.05	83 -	97	2.02E+02	90.00	1.23E+03	5.76E+01
	4	143.92	141 -	148	7.33E+01	72.42	8.27E+02	5.78E+01
	5	185.11	180 -	190	1.89E+02	86.53	9.00E+02	6.74E+01
	6	216.94	213 -	222	6.81E+01	67.88	6.18E+02	5.41E+01
M	7	238.74	235 -	246	3.96E+02	56.58	3.17E+02	2.93E+01
m	8	241.75	235 -	246	9.78E+01	48.14	2.75E+02	2.73E+01
	9	256.12	253 -	258	3.96E+01	40.27	2.91E+02	3.14E+01
	10	295.29	292 -	299	1.96E+02	54.30	3.54E+02	4.44E+01
	11	326.91	322 -	332	5.61E+01	57.26	4.08E+02	4.54E+01
	12	339.39	334 -	344	8.65E+01	56.79	3.81E+02	4.41E+01
	13	352.17	348 -	357	4.37E+02	61.57	2.84E+02	3.72E+01
	14	369.36	359 -	383	1.09E+02	92.73	5.66E+02	7.43E+01
	15	463.12	461 -	467	3.79E+01	29.90	1.32E+02	2.24E+01
	16	552.70	550 -	555	1.69E+01	20.17	6.62E+01	1.51E+01
M	17	583.01	580 -	589	1.28E+02	31.62	9.60E+01	1.61E+01
m	18	585.65	580 -	589	2.62E+01	32.37	9.60E+01	1.61E+01
M	19	602.07	599 -	615	2.02E+01	21.91	7.20E+01	1.39E+01
m	20	609.43	599 -	615	3.14E+02	38.94	7.20E+01	1.39E+01
	21	659.83	657 -	664	2.48E+01	26.08	9.84E+01	1.98E+01
	22	671.22	667 -	677	2.77E+01	31.71	1.15E+02	2.46E+01

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	23	726.95	723 -	734	4.04E+01	36.93	1.51E+02	2.85E+01
	24	769.19	765 -	774	3.18E+01	34.80	1.54E+02	2.71E+01
	25	811.56	807 -	815	2.18E+01	25.79	8.64E+01	1.98E+01
M	26	911.35	907 -	929	7.45E+01	25.54	6.79E+01	1.36E+01
m	27	925.36	907 -	929	1.45E+01	18.87	4.05E+01	1.05E+01
M	28	969.13	966 -	978	6.97E+01	26.25	1.01E+02	1.65E+01
m	29	973.17	966 -	978	1.41E+01	24.72	6.14E+01	1.29E+01
	30	1000.32	997 -	1003	2.82E+01	19.58	4.95E+01	1.35E+01
	31	1079.24	1077 -	1083	1.89E+01	17.64	4.43E+01	1.26E+01
	32	1120.65	1117 -	1126	3.70E+01	33.59	1.40E+02	2.57E+01
	33	1132.41	1129 -	1136	2.05E+01	21.35	5.90E+01	1.59E+01
	34	1235.66	1231 -	1239	2.47E+01	29.16	1.13E+02	2.25E+01
	35	1245.53	1242 -	1250	2.34E+01	25.39	8.33E+01	1.93E+01
	36	1377.85	1374 -	1380	2.03E+01	13.91	1.94E+01	8.71E+00
	37	1460.91	1454 -	1467	8.16E+02	60.85	4.81E+01	1.72E+01
	38	1661.62	1657 -	1666	1.12E+01	11.96	1.16E+01	8.15E+00
	39	1698.23	1693 -	1703	9.50E+00	10.98	1.10E+01	7.47E+00
	40	1730.01	1726 -	1733	1.97E+01	12.17	1.06E+01	6.83E+00
	41	1764.59	1759 -	1769	5.42E+01	16.07	5.56E+00	5.29E+00
	42	1773.26	1771 -	1775	6.50E+00	6.96	5.00E+00	3.90E+00
	43	2119.39	2116 -	2121	6.00E+00	4.90	0.00E+00	0.00E+00
	44	2578.90	2574 -	2580	6.00E+00	4.90	0.00E+00	0.00E+00
	45	2614.01	2609 -	2618	3.67E+01	14.63	8.54E+00	6.73E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 10:29:08AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
m	1	68.10	59 -	81	68.45	1.90E+02	116.39	1.70E+03	TI-44 TA-182

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									TH-230
m	2	76.07	59 -	81	76.41	5.30E+02	122.00	1.73E+03	.....
M	3	88.05	83 -	97	88.39	2.02E+02	90.00	1.23E+03	CD-109
									LU-176
									SN-126
	4	143.92	141 -	148	144.24	7.33E+01	72.42	8.27E+02	U-235
	5	185.11	180 -	190	185.41	1.89E+02	86.53	9.00E+02	HO-166M
	6	216.94	213 -	222	217.24	6.81E+01	67.88	6.18E+02	.....
M	7	238.74	235 -	246	239.02	3.96E+02	56.58	3.17E+02	PB-212
m	8	241.75	235 -	246	242.04	9.78E+01	48.14	2.75E+02	RA-224
	9	256.12	253 -	258	256.40	3.96E+01	40.27	2.91E+02	TH-227
	10	295.29	292 -	299	295.56	1.96E+02	54.30	3.54E+02	PB-214
	11	326.91	322 -	332	327.17	5.61E+01	57.26	4.08E+02	.....
	12	339.39	334 -	344	339.64	8.65E+01	56.79	3.81E+02	.....
	13	352.17	348 -	357	352.42	4.37E+02	61.57	2.84E+02	PB-214
	14	369.36	359 -	383	369.60	1.09E+02	92.73	5.66E+02	.....
	15	463.12	461 -	467	463.34	3.79E+01	29.90	1.32E+02	SB-125
	16	552.70	550 -	555	552.88	1.69E+01	20.17	6.62E+01	RB-83
M	17	583.01	580 -	589	583.18	1.28E+02	31.62	9.60E+01	TL-208
m	18	585.65	580 -	589	585.82	2.62E+01	32.37	9.60E+01	.....
M	19	602.07	599 -	615	602.24	2.02E+01	21.91	7.20E+01	SB-124
m	20	609.43	599 -	615	609.59	3.14E+02	38.94	7.20E+01	BI-214
	21	659.83	657 -	664	659.97	2.48E+01	26.08	9.84E+01	.....
	22	671.22	667 -	677	671.36	2.77E+01	31.71	1.15E+02	.....
	23	726.95	723 -	734	727.07	4.04E+01	36.93	1.51E+02	BI-212
	24	769.19	765 -	774	769.29	3.18E+01	34.80	1.54E+02	.....
	25	811.56	807 -	815	811.65	2.18E+01	25.79	8.64E+01	EU-156
									CO-58
M	26	911.35	907 -	929	911.41	7.45E+01	25.54	6.79E+01	AC-228
									LU-172
m	27	925.36	907 -	929	925.41	1.45E+01	18.87	4.05E+01	.....
M	28	969.13	966 -	978	969.16	6.97E+01	26.25	1.01E+02	AC-228
m	29	973.17	966 -	978	973.20	1.41E+01	24.72	6.14E+01	.....
	30	1000.32	997 -	1003	1000.34	2.82E+01	19.58	4.95E+01	PA-234M
	31	1079.24	1077 -	1083	1079.24	1.89E+01	17.64	4.43E+01	.....
	32	1120.65	1117 -	1126	1120.63	3.70E+01	33.59	1.40E+02	SC-46
									BI-214
									TA-182
	33	1132.41	1129 -	1136	1132.39	2.05E+01	21.35	5.90E+01	I-135
	34	1235.66	1231 -	1239	1235.60	2.47E+01	29.16	1.13E+02	CS-136
	35	1245.53	1242 -	1250	1245.46	2.34E+01	25.39	8.33E+01	.....
	36	1377.85	1374 -	1380	1377.74	2.03E+01	13.91	1.94E+01	.....
	37	1460.91	1454 -	1467	1460.77	8.16E+02	60.85	4.81E+01	K-40
	38	1661.62	1657 -	1666	1661.40	1.12E+01	11.96	1.16E+01	.....
	39	1698.23	1693 -	1703	1698.00	9.50E+00	10.98	1.10E+01	.....
	40	1730.01	1726 -	1733	1729.77	1.97E+01	12.17	1.06E+01	.....
	41	1764.59	1759 -	1769	1764.33	5.42E+01	16.07	5.56E+00	BI-214
	42	1773.26	1771 -	1775	1773.00	6.50E+00	6.96	5.00E+00	.....
	43	2119.39	2116 -	2121	2119.00	6.00E+00	4.90	0.00E+00	.....
	44	2578.90	2574 -	2580	2578.33	6.00E+00	4.90	0.00E+00	.....
	45	2614.01	2609 -	2618	2613.43	3.67E+01	14.63	8.54E+00	TL-208

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 10:29:08AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	1	68.10	1.90E+02	116.39	2.62E-02	2.07E-03
m	2	76.07	5.30E+02	122.00	2.76E-02	2.34E-03
M	3	88.05	2.02E+02	90.00	2.85E-02	2.74E-03
	4	143.92	7.33E+01	72.42	2.56E-02	2.12E-03
	5	185.11	1.89E+02	86.53	2.25E-02	2.03E-03
	6	216.94	6.81E+01	67.88	2.04E-02	1.80E-03
M	7	238.74	3.96E+02	56.58	1.92E-02	1.64E-03
m	8	241.75	9.78E+01	48.14	1.91E-02	1.62E-03
	9	256.12	3.96E+01	40.27	1.84E-02	1.51E-03
	10	295.29	1.96E+02	54.30	1.67E-02	1.31E-03
	11	326.91	5.61E+01	57.26	1.56E-02	1.24E-03
	12	339.39	8.65E+01	56.79	1.51E-02	1.22E-03
	13	352.17	4.37E+02	61.57	1.48E-02	1.19E-03
	14	369.36	1.09E+02	92.73	1.43E-02	1.16E-03
	15	463.12	3.79E+01	29.90	1.21E-02	1.04E-03
	16	552.70	1.69E+01	20.17	1.06E-02	9.47E-04
M	17	583.01	1.28E+02	31.62	1.02E-02	9.16E-04
m	18	585.65	2.62E+01	32.37	1.01E-02	9.13E-04
M	19	602.07	2.02E+01	21.91	9.92E-03	8.96E-04
m	20	609.43	3.14E+02	38.94	9.83E-03	8.88E-04
	21	659.83	2.48E+01	26.08	9.24E-03	8.36E-04
	22	671.22	2.77E+01	31.71	9.11E-03	8.26E-04
	23	726.95	4.04E+01	36.93	8.56E-03	7.76E-04
	24	769.19	3.18E+01	34.80	8.18E-03	7.38E-04
	25	811.56	2.18E+01	25.79	7.84E-03	7.00E-04
M	26	911.35	7.45E+01	25.54	7.15E-03	6.15E-04
m	27	925.36	1.45E+01	18.87	7.06E-03	6.08E-04
M	28	969.13	6.97E+01	26.25	6.80E-03	5.85E-04
m	29	973.17	1.41E+01	24.72	6.78E-03	5.83E-04
	30	1000.32	2.82E+01	19.58	6.63E-03	5.69E-04
	31	1079.24	1.89E+01	17.64	6.25E-03	5.28E-04
	32	1120.65	3.70E+01	33.59	6.06E-03	5.06E-04
	33	1132.41	2.05E+01	21.35	6.02E-03	5.00E-04
	34	1235.66	2.47E+01	29.16	5.62E-03	4.68E-04

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
35	1245.53	2.34E+01	25.39	5.59E-03	4.66E-04
36	1377.85	2.03E+01	13.91	5.18E-03	4.40E-04
37	1460.91	8.16E+02	60.85	4.97E-03	4.19E-04
38	1661.62	1.12E+01	11.96	4.56E-03	3.69E-04
39	1698.23	9.50E+00	10.98	4.50E-03	3.60E-04
40	1730.01	1.97E+01	12.17	4.45E-03	3.52E-04
41	1764.59	5.42E+01	16.07	4.40E-03	3.44E-04
42	1773.26	6.50E+00	6.96	4.38E-03	3.41E-04
43	2119.39	6.00E+00	4.90	4.01E-03	3.26E-04
44	2578.90	6.00E+00	4.90	3.80E-03	3.26E-04
45	2614.01	3.67E+01	14.63	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 10:29:08AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	1	68.10	1.90E+02	116.39			1.90E+02	1.16E+02
m	2	76.07	5.30E+02	122.00			5.30E+02	1.22E+02
M	3	88.05	2.02E+02	90.00			2.02E+02	9.00E+01
	4	143.92	7.33E+01	72.42	8.50E+00	7.50E+00	6.48E+01	7.28E+01
	5	185.11	1.89E+02	86.53	6.17E+01	7.27E+00	1.27E+02	8.68E+01
	6	216.94	6.81E+01	67.88			6.81E+01	6.79E+01
M	7	238.74	3.96E+02	56.58	1.90E+01	5.64E+00	3.77E+02	5.69E+01
m	8	241.75	9.78E+01	48.14			9.78E+01	4.81E+01
	9	256.12	3.96E+01	40.27			3.96E+01	4.03E+01
	10	295.29	1.96E+02	54.30	3.06E+00	4.82E+00	1.93E+02	5.45E+01
	11	326.91	5.61E+01	57.26			5.61E+01	5.73E+01
	12	339.39	8.65E+01	56.79			8.65E+01	5.68E+01
	13	352.17	4.37E+02	61.57	1.06E+01	4.49E+00	4.26E+02	6.17E+01
	14	369.36	1.09E+02	92.73			1.09E+02	9.27E+01
	15	463.12	3.79E+01	29.90			3.79E+01	2.99E+01
	16	552.70	1.69E+01	20.17			1.69E+01	2.02E+01
M	17	583.01	1.28E+02	31.62	3.96E+00	4.13E+00	1.24E+02	3.19E+01
m	18	585.65	2.62E+01	32.37			2.62E+01	3.24E+01
M	19	602.07	2.02E+01	21.91			2.02E+01	2.19E+01

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	20	609.43	3.14E+02	38.94	8.00E+00	4.15E+00	3.06E+02	3.92E+01
	21	659.83	2.48E+01	26.08			2.48E+01	2.61E+01
	22	671.22	2.77E+01	31.71			2.77E+01	3.17E+01
	23	726.95	4.04E+01	36.93	2.83E+00	2.91E+00	3.76E+01	3.70E+01
	24	769.19	3.18E+01	34.80			3.18E+01	3.48E+01
	25	811.56	2.18E+01	25.79			2.18E+01	2.58E+01
M	26	911.35	7.45E+01	25.54	3.29E+00	3.12E+00	7.12E+01	2.57E+01
m	27	925.36	1.45E+01	18.87			1.45E+01	1.89E+01
M	28	969.13	6.97E+01	26.25			6.97E+01	2.62E+01
m	29	973.17	1.41E+01	24.72			1.41E+01	2.47E+01
	30	1000.32	2.82E+01	19.58	7.17E+00	2.67E+00	2.11E+01	1.98E+01
	31	1079.24	1.89E+01	17.64			1.89E+01	1.76E+01
	32	1120.65	3.70E+01	33.59			3.70E+01	3.36E+01
	33	1132.41	2.05E+01	21.35			2.05E+01	2.14E+01
	34	1235.66	2.47E+01	29.16			2.47E+01	2.92E+01
	35	1245.53	2.34E+01	25.39			2.34E+01	2.54E+01
	36	1377.85	2.03E+01	13.91			2.03E+01	1.39E+01
	37	1460.91	8.16E+02	60.85	5.51E+00	2.16E+00	8.10E+02	6.09E+01
	38	1661.62	1.12E+01	11.96			1.12E+01	1.20E+01
	39	1698.23	9.50E+00	10.98			9.50E+00	1.10E+01
	40	1730.01	1.97E+01	12.17			1.97E+01	1.22E+01
	41	1764.59	5.42E+01	16.07	1.06E+00	1.86E+00	5.32E+01	1.62E+01
	42	1773.26	6.50E+00	6.96			6.50E+00	6.96E+00
	43	2119.39	6.00E+00	4.90			6.00E+00	4.90E+00
	44	2578.90	6.00E+00	4.90			6.00E+00	4.90E+00
	45	2614.01	3.67E+01	14.63	3.94E+00	1.34E+00	3.28E+01	1.47E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 10:29:08AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	1	68.10	1.90E+02	116.39			1.90E+02	1.16E+02
m	2	76.07	5.30E+02	122.00			5.30E+02	1.22E+02

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	3	88.05	2.02E+02	90.00			2.02E+02	9.00E+01
	4	143.92	7.33E+01	72.42	8.50E+00	7.50E+00	6.48E+01	7.28E+01
	5	185.11	1.89E+02	86.53	6.17E+01	7.27E+00	1.27E+02	8.68E+01
	6	216.94	6.81E+01	67.88			6.81E+01	6.79E+01
M	7	238.74	3.96E+02	56.58	1.90E+01	5.64E+00	3.77E+02	5.69E+01
m	8	241.75	9.78E+01	48.14			9.78E+01	4.81E+01
	9	256.12	3.96E+01	40.27			3.96E+01	4.03E+01
	10	295.29	1.96E+02	54.30	3.06E+00	4.82E+00	1.93E+02	5.45E+01
	11	326.91	5.61E+01	57.26			5.61E+01	5.73E+01
	12	339.39	8.65E+01	56.79			8.65E+01	5.68E+01
	13	352.17	4.37E+02	61.57	1.06E+01	4.49E+00	4.26E+02	6.17E+01
	14	369.36	1.09E+02	92.73			1.09E+02	9.27E+01
	15	463.12	3.79E+01	29.90			3.79E+01	2.99E+01
	16	552.70	1.69E+01	20.17			1.69E+01	2.02E+01
M	17	583.01	1.28E+02	31.62	3.96E+00	4.13E+00	1.24E+02	3.19E+01
m	18	585.65	2.62E+01	32.37			2.62E+01	3.24E+01
M	19	602.07	2.02E+01	21.91			2.02E+01	2.19E+01
m	20	609.43	3.14E+02	38.94	8.00E+00	4.15E+00	3.06E+02	3.92E+01
	21	659.83	2.48E+01	26.08			2.48E+01	2.61E+01
	22	671.22	2.77E+01	31.71			2.77E+01	3.17E+01
	23	726.95	4.04E+01	36.93	2.83E+00	2.91E+00	3.76E+01	3.70E+01
	24	769.19	3.18E+01	34.80			3.18E+01	3.48E+01
	25	811.56	2.18E+01	25.79			2.18E+01	2.58E+01
M	26	911.35	7.45E+01	25.54	3.29E+00	3.12E+00	7.12E+01	2.57E+01
m	27	925.36	1.45E+01	18.87			1.45E+01	1.89E+01
M	28	969.13	6.97E+01	26.25			6.97E+01	2.62E+01
m	29	973.17	1.41E+01	24.72			1.41E+01	2.47E+01
	30	1000.32	2.82E+01	19.58	7.17E+00	2.67E+00	2.11E+01	1.98E+01
	31	1079.24	1.89E+01	17.64			1.89E+01	1.76E+01
	32	1120.65	3.70E+01	33.59			3.70E+01	3.36E+01
	33	1132.41	2.05E+01	21.35			2.05E+01	2.14E+01
	34	1235.66	2.47E+01	29.16			2.47E+01	2.92E+01
	35	1245.53	2.34E+01	25.39			2.34E+01	2.54E+01
	36	1377.85	2.03E+01	13.91			2.03E+01	1.39E+01
	37	1460.91	8.16E+02	60.85	5.51E+00	2.16E+00	8.10E+02	6.09E+01
	38	1661.62	1.12E+01	11.96			1.12E+01	1.20E+01
	39	1698.23	9.50E+00	10.98			9.50E+00	1.10E+01
	40	1730.01	1.97E+01	12.17			1.97E+01	1.22E+01
	41	1764.59	5.42E+01	16.07	1.06E+00	1.86E+00	5.32E+01	1.62E+01
	42	1773.26	6.50E+00	6.96			6.50E+00	6.96E+00
	43	2119.39	6.00E+00	4.90			6.00E+00	4.90E+00
	44	2578.90	6.00E+00	4.90			6.00E+00	4.90E+00
	45	2614.01	3.67E+01	14.63	3.94E+00	1.34E+00	3.28E+01	1.47E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.998	1460.81	*	10.67	1.54E+01	1.77E+00
CO-58	0.902	810.76	*	99.40	3.98E-02	4.72E-02
CD-109	1.000	88.03	*	3.72	2.02E+00	9.31E-01
SB-124	0.418	602.71	*	97.87	3.15E-02	3.42E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
SN-126	0.964	87.57	*	37.00	1.93E-01	8.81E-02
TA-182	0.487	67.75	*	41.20	2.19E-01	1.36E-01
		1121.30	*	34.90	2.18E-01	1.99E-01
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.855	583.14	*	30.22	4.06E-01	1.11E-01
		860.37		4.48		
		2614.66	*	35.85	2.43E-01	1.11E-01
BI-212	0.760	727.17	*	11.80	3.76E-01	3.72E-01
		1620.62		2.75		
PB-212	0.892	238.63	*	44.60	4.43E-01	7.69E-02
		300.09		3.41		
BI-214	0.924	609.31	*	46.30	6.80E-01	1.06E-01
		1120.29	*	15.10	4.08E-01	3.72E-01
		1764.49	*	15.80	7.72E-01	2.43E-01
		2204.22		4.98		
PB-214	0.993	295.21	*	19.19	6.09E-01	1.78E-01
		351.92	*	37.19	7.83E-01	1.30E-01
RA-224	0.910	240.98	*	3.95	1.31E+00	6.55E-01
AC-228	0.554	338.32		11.40		
		911.07	*	27.70	3.63E-01	1.35E-01
		969.11	*	16.60	6.22E-01	2.40E-01
PA-234M	0.922	1001.03	*	0.92	3.48E+00	3.28E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:29:08AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	2	76.07	1.47242E-01	11.51		
	4	143.92	1.80008E-02	56.17	Tol.	U-235
	5	185.11	3.53705E-02	34.10	Tol.	HO-166M
	6	216.94	1.89162E-02	49.84		
	9	256.12	1.10135E-02	50.79	Tol.	TH-227
	11	326.91	1.55726E-02	51.07	Sum	
	12	339.39	2.40263E-02	32.83		
	14	369.36	3.02792E-02	42.54		
	15	463.12	1.05182E-02	39.48		
	16	552.70	4.69444E-03	59.69	Tol.	RB-83
m	18	585.65	7.26425E-03	61.90		
	21	659.83	6.88438E-03	52.61		
	22	671.22	7.69281E-03	57.25	Sum	
	24	769.19	8.82645E-03	54.76		
m	27	925.36	4.03627E-03	64.95		
m	29	973.17	3.91268E-03	87.76		
	31	1079.24	5.23713E-03	46.77	Sum	
	33	1132.41	5.70000E-03	52.03	Tol.	I-135
	34	1235.66	6.87414E-03	58.92	Tol.	CS-136
	35	1245.53	6.49145E-03	54.33		
	36	1377.85	5.63889E-03	34.26		
	38	1661.62	3.10458E-03	53.50		
	39	1698.23	2.63889E-03	57.77		
	40	1730.01	5.47778E-03	30.85	Sum	
	42	1773.26	1.80556E-03	53.57		
	43	2119.39	1.66667E-03	40.82		
	44	2578.90	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.54E+01	1.77E+00
CO-58	0.90	810.76	*	99.40	3.98E-02	4.72E-02
CD-109	1.00	88.03	*	3.72	2.02E+00	9.31E-01
SB-124	0.41	602.71	*	97.87	3.15E-02	3.42E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
SN-126	0.96	87.57	*	37.00	1.93E-01	8.81E-02
TA-182	0.48	67.75	*	41.20	2.19E-01	1.36E-01
		1121.30	*	34.90	2.18E-01	1.99E-01
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.85	583.14	*	30.22	4.06E-01	1.11E-01
		860.37		4.48		
		2614.66	*	35.85	2.43E-01	1.11E-01
BI-212	0.76	727.17	*	11.80	3.76E-01	3.72E-01
		1620.62		2.75		
PB-212	0.89	238.63	*	44.60	4.43E-01	7.69E-02
		300.09		3.41		
BI-214	0.92	609.31	*	46.30	6.80E-01	1.06E-01
		1120.29	*	15.10	4.08E-01	3.72E-01
		1764.49	*	15.80	7.72E-01	2.43E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	6.09E-01	1.78E-01
		351.92	*	37.19	7.83E-01	1.30E-01
RA-224	0.91	240.98	*	3.95	1.31E+00	6.55E-01
AC-228	0.55	338.32		11.40		
		911.07	*	27.70	3.63E-01	1.35E-01
		969.11	*	16.60	6.22E-01	2.40E-01
PA-234M	0.92	1001.03	*	0.92	3.48E+00	3.28E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.998	1.54E+01	1.77E+00	
	CO-58	0.902	3.98E-02	4.72E-02	
?	CD-109	1.000	2.02E+00	9.31E-01	
	SB-124	0.418	3.15E-02	3.42E-02	
?	SN-126	0.964	1.93E-01	8.81E-02	
	TA-182	0.487	1.06E-01	1.13E-01	
	TL-208	0.855	3.25E-01	7.84E-02	
	BI-212	0.760	3.76E-01	3.72E-01	
	PB-212	0.892	4.43E-01	7.69E-02	
	BI-214	0.924	6.63E-01	9.52E-02	
	PB-214	0.993	7.23E-01	1.05E-01	
	RA-224	0.910	1.31E+00	6.55E-01	
	AC-228	0.554	4.25E-01	1.18E-01	
	PA-234M	0.922	3.48E+00	3.28E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:29:08AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	2	76.07	1.47242E-01	11.51		
	4	143.92	1.80008E-02	56.17	Tol.	U-235
	5	185.11	3.53705E-02	34.10	Tol.	HO-166M
	6	216.94	1.89162E-02	49.84		
	9	256.12	1.10135E-02	50.79	Tol.	TH-227
	11	326.91	1.55726E-02	51.07	Sum	
	12	339.39	2.40263E-02	32.83		
	14	369.36	3.02792E-02	42.54		
	15	463.12	1.05182E-02	39.48		
	16	552.70	4.69444E-03	59.69	Tol.	RB-83
m	18	585.65	7.26425E-03	61.90		
	21	659.83	6.88438E-03	52.61		
	22	671.22	7.69281E-03	57.25	Sum	
	24	769.19	8.82645E-03	54.76		
m	27	925.36	4.03627E-03	64.95		
m	29	973.17	3.91268E-03	87.76		
	31	1079.24	5.23713E-03	46.77	Sum	
	33	1132.41	5.70000E-03	52.03	Tol.	I-135
	34	1235.66	6.87414E-03	58.92	Tol.	CS-136
	35	1245.53	6.49145E-03	54.33		
	36	1377.85	5.63889E-03	34.26		
	38	1661.62	3.10458E-03	53.50		
	39	1698.23	2.63889E-03	57.77		
	40	1730.01	5.47778E-03	30.85	Sum	
	42	1773.26	1.80556E-03	53.57		
	43	2119.39	1.66667E-03	40.82		
	44	2578.90	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-2.40E-01	5.62E-01	5.62E-01
+	NA-22	1274.54		99.94	-1.46E-03	5.55E-02	5.55E-02
+	NA-24	1368.53		99.99	3.89E+13	1.99E+15	3.13E+15
		2754.09		99.86	4.29E+14		1.99E+15
+	AL-26	1808.65		99.76	-1.28E-02	2.17E-02	2.17E-02
+	K-40	1460.81	*	10.67	1.54E+01	7.27E-01	7.27E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.11E-02	4.75E-02	4.75E-02
		78.34		96.00	8.38E-02		5.11E-02
+	SC-46	889.25		99.98	-2.71E-02	6.28E-02	6.28E-02
		1120.51		99.99	1.02E-01		1.05E-01
+	V-48	983.52		99.98	6.01E-02	2.31E-01	2.31E-01
		1312.10		97.50	-8.36E-03		2.41E-01
+	CR-51	320.08		9.83	1.77E-01	7.99E-01	7.99E-01
+	MN-54	834.83		99.97	-1.18E-02	4.97E-02	4.97E-02
+	CO-56	846.75		99.96	2.01E-02	6.34E-02	6.34E-02
		1037.75		14.03	1.99E-01		5.41E-01
		1238.25		67.00	4.87E-03		1.40E-01
		1771.40		15.51	-8.78E-02		3.94E-01
		2598.48		16.90	-4.28E-02		1.58E-01
+	CO-57	122.06		85.51	-1.21E-02	3.89E-02	3.89E-02
		136.48		10.60	1.80E-01		3.18E-01
+	CO-58	810.76	*	99.40	3.98E-02	7.71E-02	7.71E-02
+	FE-59	1099.22		56.50	-6.49E-02	1.57E-01	1.57E-01
		1291.56		43.20	-5.49E-03		1.99E-01
+	CO-60	1173.22		100.00	-7.86E-03	5.26E-02	6.10E-02
		1332.49		100.00	2.06E-04		5.26E-02
+	ZN-65	1115.52		50.75	-1.44E-02	1.20E-01	1.20E-01
+	GA-67	93.31		35.70	3.52E+02	2.01E+02	2.01E+02
		208.95		2.24	5.63E+02		2.69E+03
		300.22		16.00	2.43E+02		3.82E+02
+	SE-75	121.11		16.70	1.79E-01	6.23E-02	2.29E-01
		136.00		59.20	-1.37E-02		6.28E-02
		264.65		59.80	-1.86E-02		6.23E-02
		279.53		25.20	6.79E-02		1.59E-01
		400.65		11.40	-1.42E-01		3.65E-01
+	RB-82	776.52		13.00	3.43E-01	9.59E-01	9.59E-01
+	RB-83	520.41		46.00	2.69E-02	1.11E-01	1.11E-01
		529.64		30.30	9.18E-02		1.86E-01
		552.65		16.40	-1.08E-01		2.89E-01

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	KR-85	513.99		0.43	1.46E+01	1.28E+01	1.28E+01
+	SR-85	513.99		99.27	9.22E-02	8.11E-02	8.11E-02
+	Y-88	898.02		93.40	-2.58E-02	3.20E-02	6.49E-02
		1836.01		99.38	-1.19E-02		3.20E-02
+	NB-93M	16.57		9.43	-5.82E+01	4.35E+01	4.35E+01
+	NB-94	702.63		100.00	-7.06E-03	4.27E-02	4.41E-02
		871.10		100.00	-3.48E-03		4.27E-02
+	NB-95	765.79		99.81	5.71E-03	1.08E-01	1.08E-01
+	NB-95M	235.69		25.00	-6.80E+02	1.32E+02	1.32E+02
+	ZR-95	724.18		43.70	-8.10E-04	1.16E-01	1.66E-01
		756.72		55.30	-1.15E-02		1.16E-01
+	MO-99	181.06		6.20	-1.91E+03	2.28E+03	3.61E+03
		739.58		12.80	-6.94E+01		2.28E+03
		778.00		4.50	1.32E+03		7.43E+03
+	RU-103	497.08		89.00	1.59E-03	7.83E-02	7.83E-02
+	RU-106	621.84		9.80	-8.17E-02	4.47E-01	4.47E-01
+	AG-108M	433.93		89.90	-1.22E-02	4.10E-02	4.10E-02
		614.37		90.40	-1.15E-02		4.43E-02
		722.95		90.50	4.25E-03		5.18E-02
+	CD-109	88.03	*	3.72	2.02E+00	2.29E+00	2.29E+00
+	AG-110M	657.75		93.14	4.34E-03	5.30E-02	5.30E-02
		677.61		10.53	-1.21E-02		3.96E-01
		706.67		16.46	1.17E-01		3.17E-01
		763.93		21.98	1.69E-02		2.31E-01
		884.67		71.63	-1.21E-02		6.82E-02
		1384.27		23.94	1.82E-02		2.02E-01
+	CD-113M	263.70		0.02	-5.20E+01	1.32E+02	1.32E+02
+	SN-113	255.12		1.93	1.19E+00	6.07E-02	2.16E+00
		391.69		64.90	3.41E-03		6.07E-02
+	TE123M	159.00		84.10	-1.82E-03	4.60E-02	4.60E-02
+	SB-124	602.71	*	97.87	3.15E-02	8.21E-02	1.15E-01
		645.85		7.26	1.34E-01		9.23E-01
		722.78		11.10	5.19E-02		6.32E-01
		1691.02		49.00	-1.25E-02		8.21E-02
+	I-125	35.49		6.49	-4.41E-01	2.08E+00	2.08E+00
+	SB-125	176.33		6.89	-5.15E-02	1.37E-01	4.52E-01
		427.89		29.33	1.17E-02		1.37E-01
		463.38		10.35	2.36E-01		4.14E-01
		600.56		17.80	2.13E-02		2.46E-01
		635.90		11.32	-1.46E-01		3.60E-01
+	SB-126	414.70		83.30	3.20E-02	2.95E-01	3.19E-01
		666.33		99.60	2.77E-02		2.95E-01
		695.00		99.60	1.30E-01		3.10E-01
		720.50		53.80	-2.21E-02		5.86E-01
+	SN-126	87.57	*	37.00	1.93E-01	2.19E-01	2.19E-01
+	SB-127	473.00		25.00	7.44E+01	6.34E+01	9.13E+01
		685.20		35.70	5.47E+00		6.34E+01
		783.80		14.70	-1.13E+01		1.68E+02

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-129	29.78	57.00	-1.73E-01	3.04E-01	3.04E-01
		33.60	13.20	1.91E-01		8.24E-01
		39.58	7.52	-1.96E-01		9.13E-01
+	I-131	284.30	6.05	-1.11E+00	8.02E-01	1.06E+01
		364.48	81.20	6.44E-02		8.02E-01
		636.97	7.26	2.29E+00		1.19E+01
		722.89	1.80	4.41E+00		5.37E+01
+	TE-132	49.72	13.10	-8.30E+02	6.81E+01	6.49E+02
		228.16	88.00	3.82E+01		6.81E+01
+	BA-133	81.00	33.00	-4.35E-01	5.50E-02	1.13E-01
		302.84	17.80	5.51E-02		1.97E-01
		356.01	60.00	-2.38E-01		5.50E-02
+	I-133	529.87	86.30	3.78E+10	7.66E+10	7.66E+10
+	CS-134	563.23	8.38	-4.17E-02	5.01E-02	4.76E-01
		569.32	15.43	-7.15E-02		2.70E-01
		604.70	97.60	-5.05E-01		5.01E-02
		795.84	85.40	2.75E-02		6.25E-02
		801.93	8.73	3.14E-01		6.06E-01
+	CS-135	268.24	16.00	1.47E-01	2.27E-01	2.27E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	7.51E-02	2.65E-01	2.79E+00
		163.89	4.61	-9.53E-01		4.38E+00
		176.55	13.56	-1.62E-01		1.42E+00
		273.65	12.66	-8.24E-01		1.73E+00
		340.57	48.50	5.55E-01		5.33E-01
		818.50	99.70	-1.15E-02		2.65E-01
		1048.07	79.60	-2.32E-02		4.09E-01
		1235.34	19.70	1.32E+00		2.36E+00
+	CS-137	661.65	85.12	2.15E-02	5.26E-02	5.26E-02
+	LA-138	788.74	34.00	-5.92E-03	7.30E-02	1.38E-01
		1435.80	66.00	1.06E-02		7.30E-02
+	CE-139	165.85	80.35	-7.41E-03	4.62E-02	4.62E-02
+	BA-140	162.64	6.70	3.47E-01	1.10E+00	3.19E+00
		304.84	4.50	-2.87E-01		4.84E+00
		423.70	3.20	4.18E+00		8.24E+00
		437.55	2.00	6.51E+00		1.28E+01
		537.32	25.00	-2.02E-01		1.10E+00
+	LA-140	328.77	20.50	6.98E-01	2.74E-01	1.20E+00
		487.03	45.50	-8.33E-02		5.09E-01
		815.85	23.50	3.04E-01		1.18E+00
		1596.49	95.49	-4.26E-02		2.74E-01
+	CE-141	145.44	48.40	3.91E-02	1.49E-01	1.49E-01
+	CE-143	57.36	11.80	7.02E+06	5.78E+06	1.80E+07
		293.26	42.00	1.22E+07		5.78E+06
		664.55	5.20	3.60E+06		3.83E+07
+	CE-144	133.54	10.80	7.64E-04	3.12E-01	3.12E-01
+	PM-144	476.78	42.00	-3.29E-02	4.22E-02	9.61E-02

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	618.01	98.60	8.85E-03	4.22E-02	4.22E-02
		696.49	99.49	-1.27E-02		4.52E-02
+	PM-145	36.85	21.70	2.00E-01	2.00E-01	3.79E-01
		37.36	39.70	4.45E-02		2.00E-01
		42.30	15.10	1.79E-01		4.12E-01
		72.40	2.31	-8.23E-01		1.98E+00
+	PM-146	453.90	39.94	-6.89E-02	8.84E-02	8.84E-02
		735.90	14.01	-4.55E-03		2.89E-01
		747.13	13.10	-1.58E-01		3.03E-01
+	ND-147	91.11	28.90	-1.67E+00	1.31E+00	1.31E+00
		531.02	13.10	1.29E+00		3.03E+00
+	PM-149	285.90	3.10	1.29E+03	6.32E+04	6.32E+04
+	EU-152	121.78	20.50	-4.62E-02	1.49E-01	1.49E-01
		244.69	5.40	-5.13E-01		6.40E-01
		344.27	19.13	-1.94E-02		1.64E-01
		778.89	9.20	1.98E-01		5.11E-01
		964.01	10.40	2.21E-01		5.86E-01
		1085.78	7.22	1.41E-01		7.82E-01
		1112.02	9.60	4.05E-02		5.99E-01
		1407.95	14.94	-3.59E-02		3.13E-01
+	GD-153	97.43	31.30	1.51E-02	1.07E-01	1.07E-01
		103.18	22.20	-1.75E-02		1.50E-01
+	EU-154	123.07	40.50	2.82E-02	7.51E-02	7.51E-02
		723.30	19.70	1.97E-02		2.40E-01
		873.19	11.50	-5.53E-02		3.80E-01
		996.32	10.30	-2.68E-02		4.54E-01
		1004.76	17.90	-1.33E-01		2.82E-01
		1274.45	35.50	-4.03E-03		1.53E-01
+	EU-155	86.50	30.90	3.47E-02	1.29E-01	1.29E-01
		105.30	20.70	-4.66E-02		1.50E-01
+	EU-156	811.77	10.40	3.80E-01	2.21E+00	2.21E+00
		1153.47	7.20	8.30E-01		4.21E+00
		1230.71	8.90	1.36E-01		3.83E+00
+	HO-166M	184.41	72.60	7.32E-02	5.68E-02	5.68E-02
		280.45	29.60	-1.85E-02		1.06E-01
		410.94	11.10	2.03E-01		3.62E-01
		711.69	54.10	-1.18E-02		8.17E-02
+	TM-171	66.72	0.14	-3.13E+01	3.38E+01	3.38E+01
+	HF-172	81.75	4.52	-9.12E-01	2.65E-01	8.38E-01
		125.81	11.30	-1.99E-01		2.65E-01
+	LU-172	181.53	20.60	-2.29E-01	3.17E+00	6.18E+00
		810.06	16.63	4.98E+00		1.10E+01
		912.12	15.25	2.62E+01		1.85E+01
		1093.66	62.50	-1.20E+00		3.17E+00
+	LU-173	100.72	5.24	1.35E-01	1.84E-01	6.13E-01
		272.11	21.20	8.78E-02		1.84E-01
+	HF-175	343.40	84.00	-4.53E-03	5.27E-02	5.27E-02
+	LU-176	88.34	13.30	2.41E-01	3.40E-02	2.97E-01
		201.83	86.00	-8.15E-03		3.62E-02

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-176	306.78		94.00	3.88E-03	3.40E-02	3.40E-02
+	TA-182	67.75	*	41.20	2.19E-01	2.82E-01	4.23E-01
		1121.30	*	34.90	2.18E-01		3.20E-01
		1189.05		16.23	1.23E-01		5.18E-01
		1221.41		26.98	-1.84E-01		2.82E-01
		1231.02		11.44	2.63E-02		7.44E-01
+	IR-192	308.46		29.68	-5.24E-02	1.04E-01	1.42E-01
		468.07		48.10	-8.28E-03		1.04E-01
+	HG-203	279.19		77.30	2.91E-02	7.38E-02	7.38E-02
+	BI-207	569.67		97.72	-8.08E-03	4.27E-02	4.27E-02
		1063.62		74.90	2.03E-02		6.94E-02
+	TL-208	583.14	*	30.22	4.06E-01	1.32E-01	1.82E-01
		860.37		4.48	3.21E-02		1.09E+00
		2614.66	*	35.85	2.43E-01		1.32E-01
+	BI-210M	262.00		45.00	3.32E-02	7.16E-02	7.16E-02
		300.00		23.00	9.70E-02		1.53E-01
+	PB-210	46.50		4.25	9.58E-01	1.38E+00	1.38E+00
+	PB-211	404.84		2.90	9.55E-02	1.22E+00	1.22E+00
		831.96		2.90	-4.98E-01		1.54E+00
+	BI-212	727.17	*	11.80	3.76E-01	6.02E-01	6.02E-01
		1620.62		2.75	-5.37E-01		1.32E+00
+	PB-212	238.63	*	44.60	4.43E-01	1.43E-01	1.43E-01
		300.09		3.41	6.54E-01		1.03E+00
+	BI-214	609.31	*	46.30	6.80E-01	1.66E-01	1.66E-01
		1120.29	*	15.10	4.08E-01		5.97E-01
		1764.49	*	15.80	7.72E-01		2.07E-01
		2204.22		4.98	4.91E-01		1.03E+00
+	PB-214	295.21	*	19.19	6.09E-01	1.44E-01	2.90E-01
		351.92	*	37.19	7.83E-01		1.44E-01
+	RN-219	401.80		6.50	-1.24E-01	5.39E-01	5.39E-01
+	RA-223	323.87		3.88	-3.05E-01	8.48E-01	8.48E-01
+	RA-224	240.98	*	3.95	1.31E+00	1.60E+00	1.60E+00
+	RA-225	40.00		31.00	-2.39E-01	1.12E+00	1.12E+00
+	RA-226	186.21		3.28	1.63E+00	1.23E+00	1.23E+00
+	TH-227	50.10		8.40	-7.32E-01	3.41E-01	5.72E-01
		236.00		11.50	-1.75E+00		3.41E-01
		256.20		6.30	2.10E-01		5.40E-01
+	AC-228	338.32		11.40	4.36E-01	3.68E-01	3.68E-01
		911.07	*	27.70	3.63E-01		4.25E-01
		969.11	*	16.60	6.22E-01		5.79E-01
+	TH-230	48.44		16.90	3.94E-01	3.30E-01	3.30E-01
		62.85		4.60	1.38E+00		1.05E+00
		67.67		0.37	2.82E+00		1.21E+01
+	PA-231	283.67		1.60	-1.02E+00	1.52E+00	1.88E+00
		302.67		2.30	4.24E-01		1.52E+00
+	TH-231	25.64		14.70	5.07E-01	5.87E-01	3.42E+00
		84.21		6.40	-7.18E-01		5.87E-01
+	PA-233	311.98		38.60	2.35E-02	1.99E-01	1.99E-01

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PA-234	131.20		20.40	-2.50E-05	1.55E-01	1.55E-01
		733.99		8.80	1.13E-01		4.63E-01
		946.00		12.00	5.82E-02		3.89E-01
+	PA-234M	1001.03	*	0.92	3.48E+00	5.21E+00	5.21E+00
+	TH-234	63.29		3.80	1.02E+00	1.27E+00	1.27E+00
+	U-235	143.76		10.50	2.43E-01	3.30E-01	3.30E-01
		163.35		4.70	-1.47E-01		6.76E-01
		205.31		4.70	-5.79E-01		6.88E-01
+	NP-237	86.50		12.60	8.40E-02	3.11E-01	3.11E-01
+	NP-239	106.10		22.70	-1.29E+03	4.14E+03	4.14E+03
		228.18		10.70	5.51E+03		9.82E+03
		277.60		14.10	1.34E+03		7.33E+03
+	AM-241	59.54		35.90	-1.24E-01	1.19E-01	1.19E-01
+	AM-243	74.67		66.00	-6.20E-02	7.79E-02	7.79E-02
+	CM-243	209.75		3.29	6.35E-01	2.41E-01	1.04E+00
		228.14		10.60	1.82E-01		3.24E-01
		277.60		14.00	4.41E-02		2.41E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	5.62E-01	5.62E-01	-2.40E-01	2.63E-01
NA-22	1274.54	99.94	5.55E-02	5.55E-02	-1.46E-03	2.52E-02
NA-24	1368.53	99.99	3.13E+15	1.99E+15	3.89E+13	1.36E+15
	2754.09	99.86	1.99E+15		4.29E+14	7.06E+14
AL-26	1808.65	99.76	2.17E-02	2.17E-02	-1.28E-02	7.68E-03

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	K-40	1460.81	*	10.67	7.27E-01	7.27E-01	1.54E+01	3.38E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.75E-02	4.75E-02	1.11E-02	2.32E-02
		78.34		96.00	5.11E-02		8.38E-02	2.50E-02
	SC-46	889.25		99.98	6.28E-02	6.28E-02	-2.71E-02	2.89E-02
		1120.51		99.99	1.05E-01		1.02E-01	4.96E-02
	V-48	983.52		99.98	2.31E-01	2.31E-01	6.01E-02	1.06E-01
		1312.10		97.50	2.41E-01		-8.36E-03	1.09E-01
	CR-51	320.08		9.83	7.99E-01	7.99E-01	1.77E-01	3.78E-01
	MN-54	834.83		99.97	4.97E-02	4.97E-02	-1.18E-02	2.29E-02
	CO-56	846.75		99.96	6.34E-02	6.34E-02	2.01E-02	2.92E-02
		1037.75		14.03	5.41E-01		1.99E-01	2.50E-01
		1238.25		67.00	1.40E-01		4.87E-03	6.53E-02
		1771.40		15.51	3.94E-01		-8.78E-02	1.69E-01
		2598.48		16.90	1.58E-01		-4.28E-02	4.98E-02
	CO-57	122.06		85.51	3.89E-02	3.89E-02	-1.21E-02	1.88E-02
		136.48		10.60	3.18E-01		1.80E-01	1.53E-01
+	CO-58	810.76	*	99.40	7.71E-02	7.71E-02	3.98E-02	3.61E-02
	FE-59	1099.22		56.50	1.57E-01	1.57E-01	-6.49E-02	7.17E-02
		1291.56		43.20	1.99E-01		-5.49E-03	8.95E-02
	CO-60	1173.22		100.00	6.10E-02	5.26E-02	-7.86E-03	2.81E-02
		1332.49		100.00	5.26E-02		2.06E-04	2.37E-02
	ZN-65	1115.52		50.75	1.20E-01	1.20E-01	-1.44E-02	5.50E-02
	GA-67	93.31		35.70	2.01E+02	2.01E+02	3.52E+02	9.81E+01
		208.95		2.24	2.69E+03		5.63E+02	1.29E+03
		300.22		16.00	3.82E+02		2.43E+02	1.82E+02
	SE-75	121.11		16.70	2.29E-01	6.23E-02	1.79E-01	1.11E-01
		136.00		59.20	6.28E-02		-1.37E-02	3.03E-02
		264.65		59.80	6.23E-02		-1.86E-02	2.96E-02
		279.53		25.20	1.59E-01		6.79E-02	7.54E-02
		400.65		11.40	3.65E-01		-1.42E-01	1.72E-01
	RB-82	776.52		13.00	9.59E-01	9.59E-01	3.43E-01	4.46E-01
	RB-83	520.41		46.00	1.11E-01	1.11E-01	2.69E-02	5.21E-02
		529.64		30.30	1.86E-01		9.18E-02	8.76E-02
		552.65		16.40	2.89E-01		-1.08E-01	1.34E-01
	KR-85	513.99		0.43	1.28E+01	1.28E+01	1.46E+01	6.13E+00
	SR-85	513.99		99.27	8.11E-02	8.11E-02	9.22E-02	3.88E-02
	Y-88	898.02		93.40	6.49E-02	3.20E-02	-2.58E-02	2.99E-02
		1836.01		99.38	3.20E-02		-1.19E-02	1.20E-02
	NB-93M	16.57		9.43	4.35E+01	4.35E+01	-5.82E+01	1.99E+01
	NB-94	702.63		100.00	4.41E-02	4.27E-02	-7.06E-03	2.05E-02
		871.10		100.00	4.27E-02		-3.48E-03	1.95E-02
	NB-95	765.79		99.81	1.08E-01	1.08E-01	5.71E-03	5.06E-02
	NB-95M	235.69		25.00	1.32E+02	1.32E+02	-6.80E+02	6.38E+01
	ZR-95	724.18		43.70	1.66E-01	1.16E-01	-8.10E-04	7.76E-02
		756.72		55.30	1.16E-01		-1.15E-02	5.35E-02
	MO-99	181.06		6.20	3.61E+03	2.28E+03	-1.91E+03	1.74E+03
		739.58		12.80	2.28E+03		-6.94E+01	1.05E+03
		778.00		4.50	7.43E+03		1.32E+03	3.45E+03
	RU-103	497.08		89.00	7.83E-02	7.83E-02	1.59E-03	3.67E-02
	RU-106	621.84		9.80	4.47E-01	4.47E-01	-8.17E-02	2.08E-01
	AG-108M	433.93		89.90	4.10E-02	4.10E-02	-1.22E-02	1.93E-02
		614.37		90.40	4.43E-02		-1.15E-02	2.06E-02

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-108M	722.95		90.50	5.18E-02	4.10E-02	4.25E-03	2.42E-02
+	CD-109	88.03	*	3.72	2.29E+00	2.29E+00	2.02E+00	1.13E+00
	AG-110M	657.75		93.14	5.30E-02	5.30E-02	4.34E-03	2.47E-02
		677.61		10.53	3.96E-01		-1.21E-02	1.82E-01
		706.67		16.46	3.17E-01		1.17E-01	1.48E-01
		763.93		21.98	2.31E-01		1.69E-02	1.07E-01
		884.67		71.63	6.82E-02		-1.21E-02	3.12E-02
		1384.27		23.94	2.02E-01		1.82E-02	8.88E-02
	CD-113M	263.70		0.02	1.32E+02	1.32E+02	-5.20E+01	6.26E+01
	SN-113	255.12		1.93	2.16E+00	6.07E-02	1.19E+00	1.03E+00
		391.69		64.90	6.07E-02		3.41E-03	2.85E-02
	TE123M	159.00		84.10	4.60E-02	4.60E-02	-1.82E-03	2.22E-02
+	SB-124	602.71	*	97.87	1.15E-01	8.21E-02	3.15E-02	5.55E-02
		645.85		7.26	9.23E-01		1.34E-01	4.31E-01
		722.78		11.10	6.32E-01		5.19E-02	2.95E-01
		1691.02		49.00	8.21E-02		-1.25E-02	3.18E-02
	I-125	35.49		6.49	2.08E+00	2.08E+00	-4.41E-01	1.00E+00
	SB-125	176.33		6.89	4.52E-01	1.37E-01	-5.15E-02	2.17E-01
		427.89		29.33	1.37E-01		1.17E-02	6.45E-02
		463.38		10.35	4.14E-01		2.36E-01	1.96E-01
		600.56		17.80	2.46E-01		2.13E-02	1.15E-01
		635.90		11.32	3.60E-01		-1.46E-01	1.67E-01
	SB-126	414.70		83.30	3.19E-01	2.95E-01	3.20E-02	1.50E-01
		666.33		99.60	2.95E-01		2.77E-02	1.37E-01
		695.00		99.60	3.10E-01		1.30E-01	1.44E-01
		720.50		53.80	5.86E-01		-2.21E-02	2.72E-01
+	SN-126	87.57	*	37.00	2.19E-01	2.19E-01	1.93E-01	1.08E-01
	SB-127	473.00		25.00	9.13E+01	6.34E+01	7.44E+01	4.31E+01
		685.20		35.70	6.34E+01		5.47E+00	2.94E+01
		783.80		14.70	1.68E+02		-1.13E+01	7.77E+01
	I-129	29.78		57.00	3.04E-01	3.04E-01	-1.73E-01	1.46E-01
		33.60		13.20	8.24E-01		1.91E-01	3.98E-01
		39.58		7.52	9.13E-01		-1.96E-01	4.41E-01
	I-131	284.30		6.05	1.06E+01	8.02E-01	-1.11E+00	5.05E+00
		364.48		81.20	8.02E-01		6.44E-02	3.77E-01
		636.97		7.26	1.19E+01		2.29E+00	5.53E+00
		722.89		1.80	5.37E+01		4.41E+00	2.50E+01
	TE-132	49.72		13.10	6.49E+02	6.81E+01	-8.30E+02	3.15E+02
		228.16		88.00	6.81E+01		3.82E+01	3.27E+01
	BA-133	81.00		33.00	1.13E-01	5.50E-02	-4.35E-01	5.49E-02
		302.84		17.80	1.97E-01		5.51E-02	9.40E-02
		356.01		60.00	5.50E-02		-2.38E-01	2.59E-02
	I-133	529.87		86.30	7.66E+10	7.66E+10	3.78E+10	3.60E+10
	CS-134	563.23		8.38	4.76E-01	5.01E-02	-4.17E-02	2.22E-01
		569.32		15.43	2.70E-01		-7.15E-02	1.26E-01
		604.70		97.60	5.01E-02		-5.05E-01	2.36E-02
		795.84		85.40	6.25E-02		2.75E-02	2.92E-02
		801.93		8.73	6.06E-01		3.14E-01	2.83E-01
	CS-135	268.24		16.00	2.27E-01	2.27E-01	1.47E-01	1.09E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.79E+00	2.65E-01	7.51E-02	1.35E+00

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	163.89	4.61	4.38E+00	2.65E-01	-9.53E-01	2.11E+00
	176.55	13.56	1.42E+00		-1.62E-01	6.84E-01
	273.65	12.66	1.73E+00		-8.24E-01	8.24E-01
	340.57	48.50	5.33E-01		5.55E-01	2.55E-01
	818.50	99.70	2.65E-01		-1.15E-02	1.21E-01
	1048.07	79.60	4.09E-01		-2.32E-02	1.88E-01
	1235.34	19.70	2.36E+00		1.32E+00	1.10E+00
CS-137	661.65	85.12	5.26E-02	5.26E-02	2.15E-02	2.45E-02
LA-138	788.74	34.00	1.38E-01	7.30E-02	-5.92E-03	6.38E-02
	1435.80	66.00	7.30E-02		1.06E-02	3.24E-02
CE-139	165.85	80.35	4.62E-02	4.62E-02	-7.41E-03	2.23E-02
BA-140	162.64	6.70	3.19E+00	1.10E+00	3.47E-01	1.54E+00
	304.84	4.50	4.84E+00		-2.87E-01	2.30E+00
	423.70	3.20	8.24E+00		4.18E+00	3.90E+00
	437.55	2.00	1.28E+01		6.51E+00	6.04E+00
	537.32	25.00	1.10E+00		-2.02E-01	5.17E-01
LA-140	328.77	20.50	1.20E+00	2.74E-01	6.98E-01	5.73E-01
	487.03	45.50	5.09E-01		-8.33E-02	2.37E-01
	815.85	23.50	1.18E+00		3.04E-01	5.42E-01
	1596.49	95.49	2.74E-01		-4.26E-02	1.17E-01
CE-141	145.44	48.40	1.49E-01	1.49E-01	3.91E-02	7.20E-02
CE-143	57.36	11.80	1.80E+07	5.78E+06	7.02E+06	8.75E+06
	293.26	42.00	5.78E+06		1.22E+07	2.80E+06
	664.55	5.20	3.83E+07		3.60E+06	1.78E+07
CE-144	133.54	10.80	3.12E-01	3.12E-01	7.64E-04	1.51E-01
PM-144	476.78	42.00	9.61E-02	4.22E-02	-3.29E-02	4.51E-02
	618.01	98.60	4.22E-02		8.85E-03	1.96E-02
	696.49	99.49	4.52E-02		-1.27E-02	2.09E-02
PM-145	36.85	21.70	3.79E-01	2.00E-01	2.00E-01	1.83E-01
	37.36	39.70	2.00E-01		4.45E-02	9.68E-02
	42.30	15.10	4.12E-01		1.79E-01	2.00E-01
	72.40	2.31	1.98E+00		-8.23E-01	9.70E-01
PM-146	453.90	39.94	8.84E-02	8.84E-02	-6.89E-02	4.14E-02
	735.90	14.01	2.89E-01		-4.55E-03	1.33E-01
	747.13	13.10	3.03E-01		-1.58E-01	1.39E-01
ND-147	91.11	28.90	1.31E+00	1.31E+00	-1.67E+00	6.39E-01
	531.02	13.10	3.03E+00		1.29E+00	1.43E+00
PM-149	285.90	3.10	6.32E+04	6.32E+04	1.29E+03	3.01E+04
EU-152	121.78	20.50	1.49E-01	1.49E-01	-4.62E-02	7.20E-02
	244.69	5.40	6.40E-01		-5.13E-01	3.06E-01
	344.27	19.13	1.64E-01		-1.94E-02	7.71E-02
	778.89	9.20	5.11E-01		1.98E-01	2.37E-01
	964.01	10.40	5.86E-01		2.21E-01	2.74E-01
	1085.78	7.22	7.82E-01		1.41E-01	3.60E-01
	1112.02	9.60	5.99E-01		4.05E-02	2.76E-01
	1407.95	14.94	3.13E-01		-3.59E-02	1.38E-01
GD-153	97.43	31.30	1.07E-01	1.07E-01	1.51E-02	5.19E-02
	103.18	22.20	1.50E-01		-1.75E-02	7.25E-02
EU-154	123.07	40.50	7.51E-02	7.51E-02	2.82E-02	3.63E-02
	723.30	19.70	2.40E-01		1.97E-02	1.12E-01
	873.19	11.50	3.80E-01		-5.53E-02	1.74E-01
	996.32	10.30	4.54E-01		-2.68E-02	2.07E-01
	1004.76	17.90	2.82E-01		-1.33E-01	1.30E-01

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	1.53E-01	7.51E-02	-4.03E-03	6.97E-02
	EU-155	86.50		30.90	1.29E-01	1.29E-01	3.47E-02	6.27E-02
		105.30		20.70	1.50E-01		-4.66E-02	7.25E-02
	EU-156	811.77		10.40	2.21E+00	2.21E+00	3.80E-01	1.02E+00
		1153.47		7.20	4.21E+00		8.30E-01	1.95E+00
		1230.71		8.90	3.83E+00		1.36E-01	1.78E+00
	HO-166M	184.41		72.60	5.68E-02	5.68E-02	7.32E-02	2.76E-02
		280.45		29.60	1.06E-01		-1.85E-02	5.05E-02
		410.94		11.10	3.62E-01		2.03E-01	1.72E-01
		711.69		54.10	8.17E-02		-1.18E-02	3.80E-02
	TM-171	66.72		0.14	3.38E+01	3.38E+01	-3.13E+01	1.65E+01
	HF-172	81.75		4.52	8.38E-01	2.65E-01	-9.12E-01	4.08E-01
		125.81		11.30	2.65E-01		-1.99E-01	1.28E-01
	LU-172	181.53		20.60	6.18E+00	3.17E+00	-2.29E-01	2.98E+00
		810.06		16.63	1.10E+01		4.98E+00	5.12E+00
		912.12		15.25	1.85E+01		2.62E+01	8.80E+00
		1093.66		62.50	3.17E+00		-1.20E+00	1.45E+00
	LU-173	100.72		5.24	6.13E-01	1.84E-01	1.35E-01	2.97E-01
		272.11		21.20	1.84E-01		8.78E-02	8.82E-02
	HF-175	343.40		84.00	5.27E-02	5.27E-02	-4.53E-03	2.48E-02
	LU-176	88.34		13.30	2.97E-01	3.40E-02	2.41E-01	1.45E-01
		201.83		86.00	3.62E-02		-8.15E-03	1.73E-02
		306.78		94.00	3.40E-02		3.88E-03	1.61E-02
+	TA-182	67.75	*	41.20	4.23E-01	2.82E-01	2.19E-01	2.10E-01
		1121.30	*	34.90	3.20E-01		2.18E-01	1.52E-01
		1189.05		16.23	5.18E-01		1.23E-01	2.41E-01
		1221.41		26.98	2.82E-01		-1.84E-01	1.30E-01
		1231.02		11.44	7.44E-01		2.63E-02	3.46E-01
	IR-192	308.46		29.68	1.42E-01	1.04E-01	-5.24E-02	6.72E-02
		468.07		48.10	1.04E-01		-8.28E-03	4.86E-02
	HG-203	279.19		77.30	7.38E-02	7.38E-02	2.91E-02	3.52E-02
	BI-207	569.67		97.72	4.27E-02	4.27E-02	-8.08E-03	2.00E-02
		1063.62		74.90	6.94E-02		2.03E-02	3.18E-02
+	TL-208	583.14	*	30.22	1.82E-01	1.32E-01	4.06E-01	8.65E-02
		860.37		4.48	1.09E+00		3.21E-02	5.05E-01
		2614.66	*	35.85	1.32E-01		2.43E-01	5.61E-02
	BI-210M	262.00		45.00	7.16E-02	7.16E-02	3.32E-02	3.41E-02
		300.00		23.00	1.53E-01		9.70E-02	7.29E-02
	PB-210	46.50		4.25	1.38E+00	1.38E+00	9.58E-01	6.70E-01
	PB-211	404.84		2.90	1.22E+00	1.22E+00	9.55E-02	5.75E-01
		831.96		2.90	1.54E+00		-4.98E-01	7.06E-01
+	BI-212	727.17	*	11.80	6.02E-01	6.02E-01	3.76E-01	2.87E-01
		1620.62		2.75	1.32E+00		-5.37E-01	5.53E-01
+	PB-212	238.63	*	44.60	1.43E-01	1.43E-01	4.43E-01	7.01E-02
		300.09		3.41	1.03E+00		6.54E-01	4.92E-01
+	BI-214	609.31	*	46.30	1.66E-01	1.66E-01	6.80E-01	8.01E-02
		1120.29	*	15.10	5.97E-01		4.08E-01	2.84E-01
		1764.49	*	15.80	2.07E-01		7.72E-01	8.37E-02
		2204.22		4.98	1.03E+00		4.91E-01	4.47E-01
+	PB-214	295.21	*	19.19	2.90E-01	1.44E-01	6.09E-01	1.41E-01
		351.92	*	37.19	1.44E-01		7.83E-01	6.94E-02
	RN-219	401.80		6.50	5.39E-01	5.39E-01	-1.24E-01	2.54E-01
	RA-223	323.87		3.88	8.48E-01	8.48E-01	-3.05E-01	4.02E-01

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	RA-224	240.98	*	3.95	1.60E+00	1.60E+00	1.31E+00	7.83E-01
	RA-225	40.00		31.00	1.12E+00	1.12E+00	-2.39E-01	5.39E-01
	RA-226	186.21		3.28	1.23E+00	1.23E+00	1.63E+00	5.98E-01
	TH-227	50.10		8.40	5.72E-01	3.41E-01	-7.32E-01	2.78E-01
		236.00		11.50	3.41E-01		-1.75E+00	1.64E-01
		256.20		6.30	5.40E-01		2.10E-01	2.58E-01
+	AC-228	338.32		11.40	3.68E-01	3.68E-01	4.36E-01	1.76E-01
		911.07	*	27.70	4.25E-01		3.63E-01	2.06E-01
		969.11	*	16.60	5.79E-01		6.22E-01	2.78E-01
	TH-230	48.44		16.90	3.30E-01	3.30E-01	3.94E-01	1.60E-01
		62.85		4.60	1.05E+00		1.38E+00	5.12E-01
		67.67		0.37	1.21E+01		2.82E+00	5.92E+00
	PA-231	283.67		1.60	1.88E+00	1.52E+00	-1.02E+00	8.89E-01
		302.67		2.30	1.52E+00		4.24E-01	7.23E-01
	TH-231	25.64		14.70	3.42E+00	5.87E-01	5.07E-01	1.67E+00
		84.21		6.40	5.87E-01		-7.18E-01	2.86E-01
	PA-233	311.98		38.60	1.99E-01	1.99E-01	2.35E-02	9.41E-02
	PA-234	131.20		20.40	1.55E-01	1.55E-01	-2.50E-05	7.48E-02
		733.99		8.80	4.63E-01		1.13E-01	2.13E-01
		946.00		12.00	3.89E-01		5.82E-02	1.78E-01
+	PA-234M	1001.03	*	0.92	5.21E+00	5.21E+00	3.48E+00	2.38E+00
	TH-234	63.29		3.80	1.27E+00	1.27E+00	1.02E+00	6.21E-01
	U-235	143.76		10.50	3.30E-01	3.30E-01	2.43E-01	1.60E-01
		163.35		4.70	6.76E-01		-1.47E-01	3.26E-01
		205.31		4.70	6.88E-01		-5.79E-01	3.30E-01
	NP-237	86.50		12.60	3.11E-01	3.11E-01	8.40E-02	1.52E-01
	NP-239	106.10		22.70	4.14E+03	4.14E+03	-1.29E+03	2.00E+03
		228.18		10.70	9.82E+03		5.51E+03	4.71E+03
		277.60		14.10	7.33E+03		1.34E+03	3.50E+03
	AM-241	59.54		35.90	1.19E-01	1.19E-01	-1.24E-01	5.77E-02
	AM-243	74.67		66.00	7.79E-02	7.79E-02	-6.20E-02	3.82E-02
	CM-243	209.75		3.29	1.04E+00	2.41E-01	6.35E-01	5.01E-01
		228.14		10.60	3.24E-01		1.82E-01	1.55E-01
		277.60		14.00	2.41E-01		4.41E-02	1.15E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1506114-04

FEEBRIS1D-09.099-100

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-09.099-100

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	42	86	97	247	304	288
25:	46	71	59	50	42	57	52	53
33:	60	37	46	61	45	64	49	50
41:	53	61	68	65	66	59	141	71
49:	76	72	74	65	65	101	66	97
57:	77	89	79	86	89	92	129	196
65:	113	98	118	145	131	103	114	96
73:	105	128	221	179	235	285	116	98
81:	80	95	76	108	112	88	105	144
89:	88	97	115	94	206	155	85	61
97:	61	60	68	69	62	57	66	61
105:	54	71	65	67	71	55	51	69
113:	64	43	63	74	59	50	67	67
121:	50	65	61	48	61	40	56	51
129:	64	66	65	59	61	47	57	59
137:	51	53	54	45	55	57	56	79
145:	77	65	53	45	61	54	58	54
153:	60	57	62	47	54	43	53	50
161:	50	53	56	50	40	47	54	41
169:	44	41	51	39	49	44	48	32
177:	40	52	34	42	47	44	60	54
185:	62	95	97	55	41	42	45	39
193:	53	51	38	31	37	39	38	35
201:	31	38	48	32	41	48	43	31
209:	52	53	41	36	28	38	46	44
217:	43	37	32	36	42	31	29	38
225:	25	44	48	35	33	32	32	29
233:	37	41	33	47	41	81	278	140
241:	65	84	68	27	30	18	33	33
249:	32	37	27	31	23	27	35	28
257:	47	25	19	37	28	29	19	27
265:	29	17	30	22	32	44	46	30
273:	29	30	39	23	29	31	34	25
281:	23	18	21	17	31	21	27	32
289:	23	37	12	25	20	24	84	148
297:	31	21	20	34	38	26	22	19
305:	30	24	20	17	19	20	22	24
313:	17	19	23	17	20	24	29	19
321:	16	20	19	24	18	27	32	30
329:	28	25	19	18	20	20	19	13
337:	15	39	53	31	31	19	23	14
345:	16	17	18	19	19	20	71	214
353:	152	32	20	19	13	9	9	12
361:	19	18	21	10	12	21	19	15

369:	13	11	17	19	14	18	19	19

Sample Title: FEEBRIS1D-09.099-100

Channel								
377:	14	15	20	17	15	15	10	17
385:	7	17	23	18	18	16	13	14
393:	20	13	13	12	16	18	16	20
401:	13	19	16	21	24	20	9	23
409:	13	13	20	10	10	26	8	13
417:	17	13	11	10	13	11	17	19
425:	18	17	10	15	9	14	19	14
433:	8	13	10	11	13	15	18	16
441:	11	9	10	15	15	16	20	13
449:	9	19	11	11	13	7	11	7
457:	13	15	17	12	10	20	21	25
465:	9	11	8	9	8	16	13	16
473:	13	16	10	13	12	4	15	10
481:	13	13	13	9	8	11	9	15
489:	3	9	9	7	11	10	15	8
497:	15	4	6	16	10	13	7	12
505:	18	13	19	7	12	38	60	39
513:	20	9	10	11	10	13	5	6
521:	11	8	13	17	9	6	10	14
529:	11	13	15	11	13	13	8	15
537:	13	9	8	14	12	15	9	10
545:	10	11	9	12	8	6	8	12
553:	9	12	3	6	5	15	9	7
561:	10	10	15	9	5	8	11	5
569:	15	12	6	12	13	17	15	7
577:	13	12	7	9	6	17	73	54
585:	19	22	10	12	6	10	10	10
593:	5	10	9	10	11	6	6	10
601:	8	17	11	14	7	11	11	17
609:	124	138	24	15	13	7	6	6
617:	2	11	12	12	7	7	8	8
625:	8	13	11	9	12	5	11	7
633:	8	7	10	7	7	17	0	14
641:	8	8	9	8	11	15	9	8
649:	10	10	10	11	10	8	11	8
657:	1	14	8	12	14	13	5	7
665:	8	9	5	9	13	12	9	8
673:	4	7	8	7	3	5	5	10
681:	7	7	10	6	11	7	6	5
689:	5	7	5	8	8	7	8	8
697:	12	7	9	3	9	11	7	10
705:	9	10	10	11	10	8	6	7
713:	11	7	9	8	8	5	8	10
721:	10	7	5	12	6	14	18	21
729:	10	8	7	6	5	4	9	9
737:	6	4	7	9	8	5	10	7
745:	4	2	9	4	5	10	8	10
753:	10	9	8	11	6	7	4	6
761:	7	6	9	10	6	12	6	16
769:	19	13	10	10	11	6	9	14
777:	4	11	6	10	6	5	9	1
785:	8	14	7	8	6	10	7	3
793:	12	8	12	9	3	9	14	10

801:	7	11	12	3	8	7	6	8

Sample Title: FEEBRIS1D-09.099-100

Channel								
809:	5	6	11	12	9	5	3	4
817:	8	7	4	2	5	10	8	7
825:	6	5	7	5	6	8	7	2
833:	9	7	6	11	8	5	9	8
841:	15	8	6	8	7	3	10	7
849:	6	7	6	2	7	11	5	9
857:	8	2	9	8	12	7	6	9
865:	6	2	6	5	8	5	4	7
873:	5	4	6	8	8	4	6	7
881:	5	3	3	9	5	9	6	5
889:	8	6	7	4	12	7	8	5
897:	5	7	6	8	8	5	11	10
905:	5	5	7	5	6	12	42	27
913:	11	8	11	7	5	2	3	8
921:	5	2	4	3	10	6	7	5
929:	4	1	5	9	4	10	8	4
937:	5	8	6	2	3	5	3	7
945:	2	7	8	6	7	7	5	5
953:	9	4	5	5	7	3	8	7
961:	10	7	5	15	16	8	7	21
969:	44	18	9	6	11	3	13	4
977:	7	1	4	5	3	6	6	10
985:	5	10	4	7	4	6	6	4
993:	7	5	7	2	4	8	3	14
1001:	8	13	3	5	6	4	5	6
1009:	7	10	5	10	5	6	9	10
1017:	6	9	3	9	4	5	3	8
1025:	4	3	9	9	8	5	8	9
1033:	5	5	9	5	4	7	7	12
1041:	6	8	3	6	6	3	2	10
1049:	10	5	5	4	11	5	1	5
1057:	8	8	5	3	1	8	3	8
1065:	7	6	8	7	3	8	7	10
1073:	6	4	6	3	1	11	6	8
1081:	6	5	4	4	7	7	10	8
1089:	7	9	6	6	3	7	2	10
1097:	6	4	10	5	1	2	9	8
1105:	2	5	7	4	9	7	6	8
1113:	2	5	10	7	7	7	5	31
1121:	26	13	3	3	7	5	9	5
1129:	6	3	10	10	8	7	4	2
1137:	3	9	4	7	7	3	10	5
1145:	6	7	6	5	7	6	8	8
1153:	2	11	9	7	6	7	6	9
1161:	5	4	7	4	8	5	11	13
1169:	6	7	9	4	8	6	5	9
1177:	5	7	4	7	5	7	5	8
1185:	9	7	6	10	11	9	13	5
1193:	8	5	9	9	8	8	5	12
1201:	12	6	4	9	7	6	5	13
1209:	10	9	11	9	11	7	7	10
1217:	11	7	7	4	7	9	7	6
1225:	12	7	4	9	8	8	9	9

1233:	4	12	8	19	6	9	5	4

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Channel								
1241:	8	3	6	11	15	8	8	4
1249:	5	5	3	7	10	5	5	1
1257:	2	6	5	9	9	6	3	5
1265:	4	1	4	1	7	6	6	4
1273:	3	3	5	9	3	1	6	5
1281:	5	5	3	6	7	4	6	4
1289:	2	5	1	4	6	5	1	5
1297:	6	4	3	3	6	2	3	5
1305:	4	4	5	5	6	3	2	5
1313:	5	1	6	3	4	3	3	3
1321:	2	1	3	1	4	2	5	6
1329:	2	4	2	5	5	6	4	1
1337:	4	3	2	5	2	4	1	5
1345:	0	4	1	2	1	3	0	2
1353:	1	3	1	5	1	3	4	2
1361:	3	2	0	2	5	0	3	0
1369:	3	1	2	1	4	2	1	5
1377:	6	12	4	0	0	5	1	2
1385:	8	2	0	4	1	4	2	2
1393:	2	3	2	1	3	2	2	2
1401:	7	2	2	4	3	0	1	4
1409:	4	6	2	0	7	3	3	1
1417:	4	2	5	3	1	0	2	2
1425:	3	5	2	2	2	3	2	3
1433:	1	5	4	4	5	2	0	2
1441:	3	4	2	1	2	1	2	3
1449:	1	1	4	3	1	4	3	3
1457:	4	9	56	275	305	144	17	11
1465:	5	4	0	2	2	1	3	0
1473:	1	3	1	1	0	0	0	1
1481:	5	1	0	2	1	1	2	1
1489:	1	3	0	1	2	4	1	3
1497:	2	3	2	0	1	3	3	0
1505:	1	2	3	1	0	1	1	0
1513:	1	0	3	1	1	1	1	2
1521:	2	2	2	2	3	2	1	1
1529:	2	2	1	1	1	1	1	2
1537:	1	3	2	0	3	0	2	2
1545:	3	3	0	2	4	2	1	1
1553:	1	3	2	1	1	1	3	2
1561:	0	2	0	2	2	1	1	1
1569:	2	1	1	4	1	1	1	0
1577:	1	1	0	3	2	1	1	1
1585:	2	1	3	4	4	0	3	4
1593:	2	3	1	1	1	0	3	2
1601:	0	1	0	3	1	1	0	1
1609:	0	0	1	0	0	2	2	2
1617:	0	1	0	3	4	1	0	2
1625:	3	1	1	2	2	1	2	2
1633:	1	0	0	0	0	0	2	1
1641:	0	2	1	0	2	2	2	2
1649:	0	1	2	1	0	2	4	0
1657:	3	0	2	1	4	2	3	1

1665:	1	0	0	0	1	1	1	0

Sample Title: FEEBRIS1D-09.099-100

Channel								
1673:	1	1	3	0	2	1	0	1
1681:	0	0	0	1	0	1	2	1
1689:	0	0	1	1	0	1	1	3
1697:	1	4	1	1	1	2	0	1
1705:	0	0	0	0	2	2	1	0
1713:	2	0	1	3	2	3	1	1
1721:	2	1	2	2	2	1	0	4
1729:	8	6	4	2	0	0	0	1
1737:	0	0	1	0	3	0	1	1
1745:	1	1	1	1	1	2	1	1
1753:	2	2	1	0	2	0	0	1
1761:	1	4	7	20	11	8	1	3
1769:	1	0	1	2	3	3	0	1
1777:	1	1	0	1	0	3	1	1
1785:	1	0	0	1	0	0	0	0
1793:	1	1	1	0	1	1	1	0
1801:	2	1	2	1	0	0	0	0
1809:	1	0	1	0	0	2	0	1
1817:	0	3	1	2	0	1	1	0
1825:	0	0	0	1	0	1	1	1
1833:	1	0	0	1	1	0	0	1
1841:	1	2	1	0	0	1	2	4
1849:	3	0	4	0	1	3	0	2
1857:	0	0	0	4	2	2	1	0
1865:	1	1	1	0	1	0	1	1
1873:	1	1	0	3	0	0	0	2
1881:	1	1	1	1	0	1	2	0
1889:	2	1	1	1	2	0	1	1
1897:	0	0	0	0	0	1	0	0
1905:	1	0	0	1	1	0	0	0
1913:	0	0	0	0	0	0	0	1
1921:	0	1	0	0	1	1	3	1
1929:	2	2	0	0	0	1	1	0
1937:	2	0	1	0	0	1	0	0
1945:	0	1	0	0	1	0	2	1
1953:	1	1	2	2	0	1	0	0
1961:	1	0	1	0	0	0	0	1
1969:	1	0	2	1	1	1	1	4
1977:	0	1	0	0	0	0	0	2
1985:	0	3	1	2	0	2	1	0
1993:	0	0	1	2	1	2	2	0
2001:	0	0	2	0	0	1	1	1
2009:	0	2	1	0	0	0	1	0
2017:	0	1	0	2	1	0	2	0
2025:	1	0	0	1	0	1	0	0
2033:	1	1	2	0	2	0	1	0
2041:	0	1	1	0	1	3	1	0
2049:	0	0	1	2	0	2	1	0
2057:	1	1	0	0	2	0	0	0
2065:	0	1	0	0	0	0	1	1
2073:	0	1	0	2	0	0	1	0
2081:	1	1	0	1	1	2	1	2
2089:	0	1	0	1	0	1	0	1

2097:	0	0	0	2	0	0	1	2

Sample Title: FEEBRIS1D-09.099-100

Channel								
2105:	1	0	1	0	2	1	2	0
2113:	1	0	0	0	0	2	2	2
2121:	0	0	0	3	0	0	1	0
2129:	1	1	0	0	0	1	0	0
2137:	0	0	0	1	0	0	3	1
2145:	0	0	1	0	0	0	0	1
2153:	2	1	1	1	0	1	1	1
2161:	0	0	0	0	0	1	0	1
2169:	3	0	1	1	1	0	0	2
2177:	0	1	1	0	1	0	0	0
2185:	1	0	0	0	2	0	1	1
2193:	0	1	2	1	0	1	1	0
2201:	0	1	2	6	3	0	1	1
2209:	0	0	1	0	0	0	1	1
2217:	1	0	0	0	0	1	0	0
2225:	0	1	0	2	1	0	0	3
2233:	1	0	0	2	1	0	1	0
2241:	1	0	1	1	0	0	0	0
2249:	1	1	0	0	1	0	0	1
2257:	0	0	1	0	2	1	1	2
2265:	0	0	1	2	0	0	1	0
2273:	1	0	0	1	2	0	0	1
2281:	0	1	1	0	0	1	0	0
2289:	1	0	0	0	0	1	0	2
2297:	1	1	1	0	0	0	2	1
2305:	1	2	0	0	1	1	2	0
2313:	0	0	1	0	1	1	3	0
2321:	1	0	0	0	0	0	0	0
2329:	2	0	0	0	2	0	0	0
2337:	0	0	3	1	1	1	3	0
2345:	1	0	0	0	0	1	0	1
2353:	0	0	0	0	0	1	0	1
2361:	1	0	1	0	3	1	1	0
2369:	0	3	0	1	0	2	1	4
2377:	0	1	1	0	2	1	1	1
2385:	0	0	0	0	1	0	1	0
2393:	0	0	0	0	0	0	0	0
2401:	1	1	1	1	0	1	0	0
2409:	0	0	0	3	0	1	1	0
2417:	0	0	0	0	1	1	0	0
2425:	0	0	0	0	0	0	1	0
2433:	0	1	0	0	0	1	0	0
2441:	0	0	0	1	0	2	2	0
2449:	3	1	1	0	1	0	0	0
2457:	1	0	0	0	0	0	0	0
2465:	0	2	1	0	0	1	0	0
2473:	0	1	0	0	0	0	1	1
2481:	0	0	0	0	0	1	0	1
2489:	1	0	0	0	1	0	0	0
2497:	0	0	0	1	0	0	0	0
2505:	0	0	1	1	1	0	2	2
2513:	0	0	0	0	2	1	0	0
2521:	1	0	0	0	0	2	1	0

2529:	0	0	2	0	0	0	0	0

Sample Title: FEEBRIS1D-09.099-100

Channel								
2537:	0	0	0	0	1	1	0	0
2545:	0	0	0	0	1	1	0	2
2553:	1	0	0	0	0	0	0	0
2561:	0	0	1	1	0	2	0	0
2569:	0	1	0	0	0	0	0	0
2577:	1	2	3	0	0	0	0	1
2585:	1	0	0	0	1	0	0	1
2593:	0	0	0	0	0	0	0	0
2601:	0	1	0	1	0	0	1	2
2609:	0	1	4	6	12	11	5	1
2617:	1	0	0	0	0	0	1	2
2625:	0	1	0	0	0	0	0	0
2633:	0	0	0	0	0	0	1	1
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	1	0
2657:	0	0	0	0	0	0	0	0
2665:	0	0	1	0	0	1	0	1
2673:	0	0	0	0	1	1	1	0
2681:	0	3	0	0	1	0	0	0
2689:	0	0	0	0	0	0	0	1
2697:	1	2	0	1	1	0	0	1
2705:	0	0	1	0	0	0	0	0
2713:	0	1	0	0	0	0	0	0
2721:	1	0	0	0	0	1	0	0
2729:	0	0	1	1	0	3	0	0
2737:	1	0	0	0	0	0	0	0
2745:	1	0	0	0	0	0	1	0
2753:	0	0	0	0	1	0	0	0
2761:	0	0	0	0	0	1	0	0
2769:	1	0	0	0	0	0	0	0
2777:	0	0	0	0	1	0	0	0
2785:	0	1	0	0	0	1	0	0
2793:	0	0	0	0	1	0	0	0
2801:	0	1	1	0	0	0	0	0
2809:	0	0	1	0	2	2	0	1
2817:	0	1	0	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	1	0	0	0	0	0	0
2849:	0	1	1	0	0	1	2	0
2857:	0	1	0	0	0	0	1	0
2865:	1	0	2	0	0	0	0	1
2873:	0	1	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	1
2905:	0	0	0	0	2	1	0	2
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	1	0	0
2937:	0	0	0	0	1	1	0	0
2945:	1	1	0	0	0	0	0	1
2953:	1	0	1	0	0	1	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-09.099-100

Channel								
2969:	0	0	0	1	0	0	0	0
2977:	0	0	0	0	0	1	0	0
2985:	1	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	2	0
3001:	1	0	0	0	0	0	0	0
3009:	0	0	0	1	0	0	1	0
3017:	1	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	1	1	0	0
3041:	0	0	0	1	0	0	1	0
3049:	0	0	0	0	0	0	0	0
3057:	0	1	0	0	0	1	0	0
3065:	1	0	0	0	0	1	0	0
3073:	0	0	0	1	0	0	0	0
3081:	0	0	0	0	0	0	1	1
3089:	0	1	0	0	0	1	0	0
3097:	0	1	1	0	0	0	1	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	1	0
3137:	0	0	0	0	0	1	0	2
3145:	0	0	0	0	1	0	0	1
3153:	1	0	1	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	2	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	1	0
3193:	0	1	0	0	3	0	0	1
3201:	0	0	0	1	0	0	0	0
3209:	0	0	0	0	0	0	0	1
3217:	0	0	0	0	0	0	1	0
3225:	0	0	0	0	0	0	0	0
3233:	0	1	0	0	0	1	1	0
3241:	0	1	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	1	0	0	0	0	0	0
3273:	0	0	0	0	0	0	1	0
3281:	1	0	0	0	0	0	0	1
3289:	0	0	0	1	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	1	0	0	0	0	0	0
3313:	1	0	0	0	0	1	0	0
3321:	0	1	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	2	1	0	0	0	0	1
3345:	0	0	0	1	0	1	0	0
3353:	0	0	0	0	0	0	0	0
3361:	1	0	0	0	0	0	0	0
3369:	0	1	0	0	0	0	0	0
3377:	0	1	0	0	1	0	1	0
3385:	0	1	0	1	0	0	0	1

3393:	0	0	1	1	0	0	0	1

Sample Title: FEEBRIS1D-09.099-100

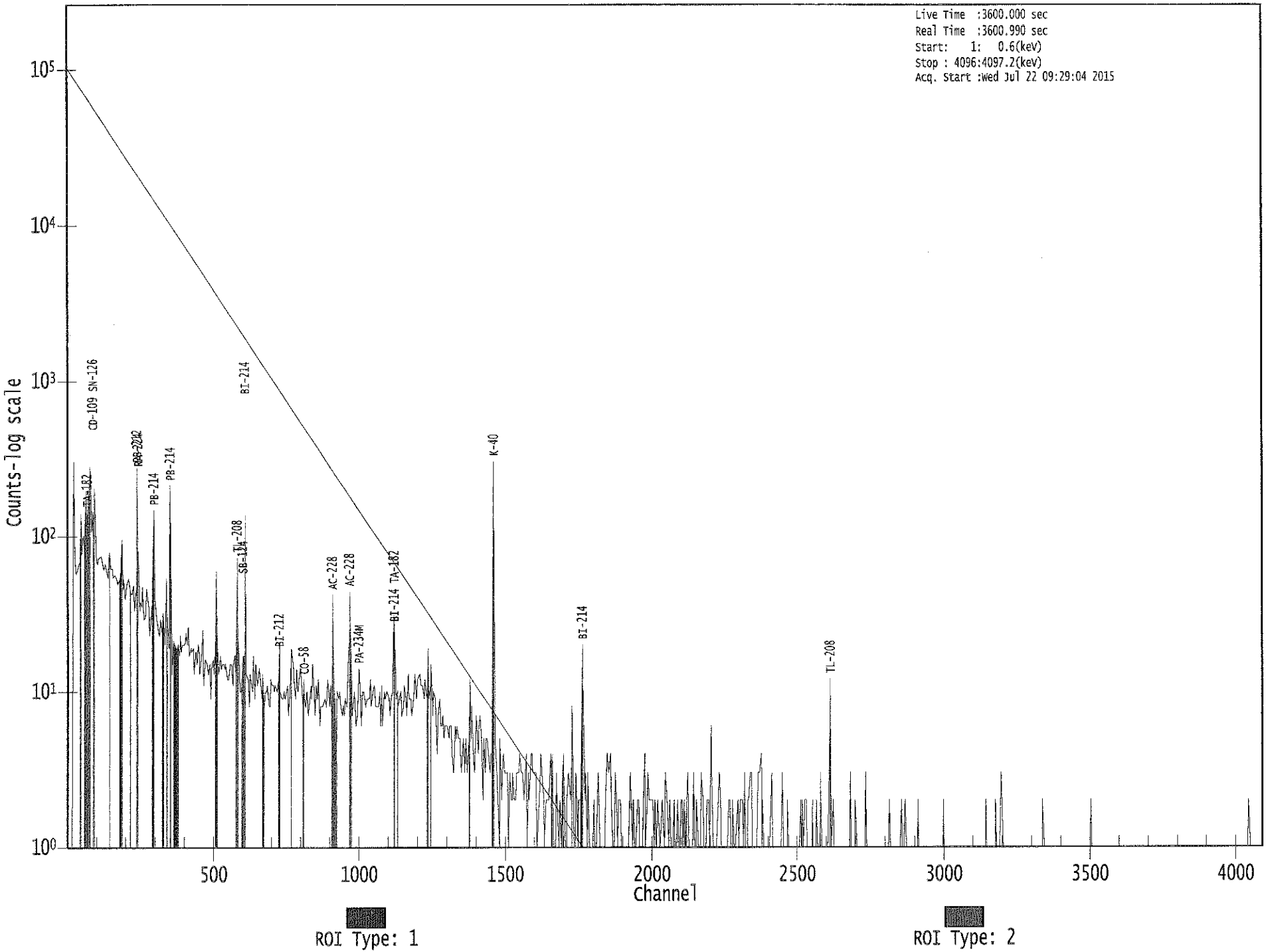
Channel								
3401:	0	0	0	0	0	0	0	1
3409:	0	0	0	1	1	0	0	0
3417:	1	0	1	0	0	0	0	0
3425:	1	0	0	0	0	1	0	0
3433:	0	0	0	0	0	0	0	1
3441:	0	0	0	0	0	0	1	0
3449:	1	0	0	1	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	1	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	1	0	0	0	0	0	0
3497:	1	0	0	1	0	0	2	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	0	1	0	0	0
3553:	0	1	0	0	0	1	1	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	1	0	0
3577:	0	1	0	0	0	0	0	0
3585:	0	0	0	0	1	0	0	0
3593:	0	0	1	0	0	0	1	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	1
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	1	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	1	0	0
3649:	1	0	0	1	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	1	0	0	0	0	0	0
3673:	1	0	0	1	1	0	0	0
3681:	1	0	0	1	1	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	1
3705:	0	0	0	0	1	0	0	0
3713:	0	1	0	0	0	0	0	0
3721:	0	0	0	0	0	0	1	1
3729:	0	0	0	0	0	1	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	1	0	0
3753:	0	0	0	0	1	0	1	0
3761:	0	0	0	0	0	0	0	1
3769:	0	0	0	0	0	0	0	0
3777:	0	1	0	0	0	0	0	0
3785:	0	0	0	0	0	1	1	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	1	0	0

3825:	0	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-09.099-100

Channel								
3833:	0	0	0	0	0	0	0	1
3841:	1	0	0	0	0	0	0	0
3849:	1	0	0	0	0	1	0	0
3857:	0	0	1	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	1	0	0
3881:	0	0	0	0	1	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	1	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	1	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	1	0	0	0	0	0	0	0
3945:	0	0	0	1	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	1	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	1	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	1	0	0	0	0	1	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	1	0	0	2	0	0	0
4049:	0	0	1	1	0	1	0	1
4057:	0	0	0	1	1	0	0	0
4065:	1	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000024975.CNF



Apex-Gamma

Analysis Report for 1506114-05
FEEBRIS1D-09.078-079

C
7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-05
Sample Description	: FEEBRIS1D-09.078-079
Sample Type	: SOIL
Sample Size	: 1.451E+02 grams
Facility	: Countroom
Sample Taken On	: 6/17/2015 7:37:20AM
Acquisition Started	: 7/22/2015 8:27:01AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24970

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 9:27:17AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	23.16	23.28	0.0000	0.00
2	47.15	47.26	0.0000	0.00
3	76.54	76.63	0.0000	0.00
4	185.81	185.83	0.0000	0.00
5	239.22	239.22	0.0000	0.00
6	359.07	359.00	0.0000	0.00
7	367.62	367.55	0.0000	0.00
8	574.75	574.58	0.0000	0.00
9	588.19	588.01	0.0000	0.00
10	630.04	629.84	0.0000	0.00
11	664.94	664.72	0.0000	0.00
12	713.19	712.95	0.0000	0.00
13	889.01	888.70	0.0000	0.00
14	898.56	898.24	0.0000	0.00
15	1000.12	999.76	0.0000	0.00
16	1039.56	1039.19	0.0000	0.00
17	1171.17	1170.74	0.0000	0.00
18	1238.19	1237.74	0.0000	0.00
19	1303.03	1302.56	0.0000	0.00
20	1461.20	1460.67	0.0000	0.00
21	2203.17	2202.47	0.0000	0.00
22	2783.55	2782.80	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:27:17AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	23.16	19 -	28	23.28	1.49E+02	94.07	1.16E+03	7.71
	2	47.15	43 -	50	47.26	1.57E+02	84.00	1.06E+03	1.20
	3	76.54	74 -	80	76.63	7.25E+01	40.77	2.45E+02	3.81
	4	185.81	182 -	189	185.83	8.54E+01	39.75	2.03E+02	1.38
	5	239.22	234 -	244	239.22	1.07E+02	43.21	1.91E+02	1.53
m	6	359.07	348 -	365	359.00	1.47E+01	13.86	2.85E+01	1.44
	7	367.62	366 -	370	367.55	1.51E+01	16.07	4.58E+01	1.09
	8	574.75	572 -	578	574.58	1.90E+01	15.17	2.80E+01	1.16
	9	588.19	586 -	591	588.01	1.69E+01	14.18	2.62E+01	2.25
	10	630.04	624 -	637	629.84	2.43E+01	25.79	6.34E+01	10.17
	11	664.94	657 -	673	664.72	3.34E+01	30.63	7.72E+01	8.24
	12	713.19	709 -	717	712.95	1.81E+01	18.28	3.98E+01	2.91
	13	889.01	885 -	892	888.70	1.89E+01	12.17	1.23E+01	5.46
	14	898.56	895 -	901	898.24	1.17E+01	10.23	1.06E+01	2.42
	15	1000.12	997 -	1003	999.76	7.77E+00	10.44	1.45E+01	1.00
	16	1039.56	1035 -	1042	1039.19	7.00E+00	8.72	8.00E+00	1.91
	17	1171.17	1167 -	1174	1170.74	1.11E+01	12.81	1.99E+01	1.14
	18	1238.19	1235 -	1240	1237.74	8.64E+00	7.87	4.73E+00	1.85
	19	1303.03	1299 -	1305	1302.56	9.00E+00	6.00	0.00E+00	2.92
	20	1461.20	1457 -	1463	1460.67	2.17E+01	12.03	1.06E+01	1.94
	21	2203.17	2197 -	2206	2202.47	7.80E+00	8.06	4.40E+00	1.17
	22	2783.55	2779 -	2785	2782.80	5.00E+00	4.47	0.00E+00	2.41

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:27:17AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	23.16	19 -	28	1.49E+02	94.07	1.16E+03	7.47E+01
	2	47.15	43 -	50	1.57E+02	84.00	1.06E+03	6.59E+01
	3	76.54	74 -	80	7.25E+01	40.77	2.45E+02	3.04E+01
	4	185.81	182 -	189	8.54E+01	39.75	2.03E+02	2.89E+01
	5	239.22	234 -	244	1.07E+02	43.21	1.91E+02	1.42E+01
m	6	359.07	348 -	365	1.47E+01	13.86	2.85E+01	8.78E+00
	7	367.62	366 -	370	1.51E+01	16.07	4.58E+01	1.16E+01
	8	574.75	572 -	578	1.90E+01	15.17	2.80E+01	1.02E+01
	9	588.19	586 -	591	1.69E+01	14.18	2.62E+01	9.49E+00
	10	630.04	624 -	637	2.43E+01	25.79	6.34E+01	1.96E+01
	11	664.94	657 -	673	3.34E+01	30.63	7.72E+01	2.33E+01
	12	713.19	709 -	717	1.81E+01	18.28	3.98E+01	1.33E+01
	13	889.01	885 -	892	1.89E+01	12.17	1.23E+01	7.00E+00
	14	898.56	895 -	901	1.17E+01	10.23	1.06E+01	6.26E+00
	15	1000.12	997 -	1003	7.77E+00	10.44	1.45E+01	7.26E+00
	16	1039.56	1035 -	1042	7.00E+00	8.72	8.00E+00	5.70E+00
	17	1171.17	1167 -	1174	1.11E+01	12.81	1.99E+01	8.99E+00
	18	1238.19	1235 -	1240	8.64E+00	7.87	4.73E+00	4.31E+00
	19	1303.03	1299 -	1305	9.00E+00	6.00	0.00E+00	0.00E+00
	20	1461.20	1457 -	1463	2.17E+01	12.03	1.06E+01	6.25E+00
	21	2203.17	2197 -	2206	7.80E+00	8.06	4.40E+00	4.78E+00
	22	2783.55	2779 -	2785	5.00E+00	4.47	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 9:27:17AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	23.16	19 -	28	23.28	1.49E+02	94.07	1.16E+03	.....
	2	47.15	43 -	50	47.26	1.57E+02	84.00	1.06E+03	PB-210
	3	76.54	74 -	80	76.63	7.25E+01	40.77	2.45E+02	.....
	4	185.81	182 -	189	185.83	8.54E+01	39.75	2.03E+02	RA-226
	5	239.22	234 -	244	239.22	1.07E+02	43.21	1.91E+02	PB-212
m	6	359.07	348 -	365	359.00	1.47E+01	13.86	2.85E+01	.....
	7	367.62	366 -	370	367.55	1.51E+01	16.07	4.58E+01	.....
	8	574.75	572 -	578	574.58	1.90E+01	15.17	2.80E+01	.....
	9	588.19	586 -	591	588.01	1.69E+01	14.18	2.62E+01	.....
	10	630.04	624 -	637	629.84	2.43E+01	25.79	6.34E+01	.....
	11	664.94	657 -	673	664.72	3.34E+01	30.63	7.72E+01	CE-143
	12	713.19	709 -	717	712.95	1.81E+01	18.28	3.98E+01	.....
	13	889.01	885 -	892	888.70	1.89E+01	12.17	1.23E+01	SC-46
	14	898.56	895 -	901	898.24	1.17E+01	10.23	1.06E+01	Y-88
	15	1000.12	997 -	1003	999.76	7.77E+00	10.44	1.45E+01	PA-234M
	16	1039.56	1035 -	1042	1039.19	7.00E+00	8.72	8.00E+00	.....
	17	1171.17	1167 -	1174	1170.74	1.11E+01	12.81	1.99E+01	.....
	18	1238.19	1235 -	1240	1237.74	8.64E+00	7.87	4.73E+00	CO-56
	19	1303.03	1299 -	1305	1302.56	9.00E+00	6.00	0.00E+00	.....
	20	1461.20	1457 -	1463	1460.67	2.17E+01	12.03	1.06E+01	K-40
	21	2203.17	2197 -	2206	2202.47	7.80E+00	8.06	4.40E+00	.....
	22	2783.55	2779 -	2785	2782.80	5.00E+00	4.47	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 9:27:17AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	23.16	1.49E+02	94.07	2.11E-04	1.68E-03
	2	47.15	1.57E+02	84.00	1.39E-02	1.68E-03
	3	76.54	7.25E+01	40.77	2.74E-02	3.37E-03
	4	185.81	8.54E+01	39.75	2.11E-02	1.65E-03
	5	239.22	1.07E+02	43.21	1.78E-02	1.60E-03
m	6	359.07	1.47E+01	13.86	1.35E-02	1.18E-03
	7	367.62	1.51E+01	16.07	1.33E-02	1.13E-03
	8	574.75	1.90E+01	15.17	9.69E-03	8.33E-04

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
9	588.19	1.69E+01	14.18	9.52E-03	8.20E-04
10	630.04	2.43E+01	25.79	9.04E-03	7.77E-04
11	664.94	3.34E+01	30.63	8.67E-03	7.43E-04
12	713.19	1.81E+01	18.28	8.21E-03	7.12E-04
13	889.01	1.89E+01	12.17	6.88E-03	5.99E-04
14	898.56	1.17E+01	10.23	6.82E-03	5.93E-04
15	1000.12	7.77E+00	10.44	6.25E-03	5.41E-04
16	1039.56	7.00E+00	8.72	6.06E-03	5.21E-04
17	1171.17	1.11E+01	12.81	5.51E-03	4.54E-04
18	1238.19	8.64E+00	7.87	5.27E-03	4.83E-04
19	1303.03	9.00E+00	6.00	5.07E-03	5.13E-04
20	1461.20	2.17E+01	12.03	4.67E-03	4.73E-04
21	2203.17	7.80E+00	8.06	3.93E-03	3.18E-04
22	2783.55	5.00E+00	4.47	4.19E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 9:27:17AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	23.16	1.49E+02	94.07			1.49E+02	9.41E+01
	2	47.15	1.57E+02	84.00	5.47E+01	1.18E+01	1.03E+02	8.48E+01
	3	76.54	7.25E+01	40.77			7.25E+01	4.08E+01
	4	185.81	8.54E+01	39.75	4.79E+01	7.81E+00	3.75E+01	4.05E+01
	5	239.22	1.07E+02	43.21	2.21E+01	3.31E+00	8.45E+01	4.33E+01
m	6	359.07	1.47E+01	13.86			1.47E+01	1.39E+01
	7	367.62	1.51E+01	16.07			1.51E+01	1.61E+01
	8	574.75	1.90E+01	15.17			1.90E+01	1.52E+01
	9	588.19	1.69E+01	14.18			1.69E+01	1.42E+01
	10	630.04	2.43E+01	25.79			2.43E+01	2.58E+01
	11	664.94	3.34E+01	30.63			3.34E+01	3.06E+01
	12	713.19	1.81E+01	18.28			1.81E+01	1.83E+01
	13	889.01	1.89E+01	12.17			1.89E+01	1.22E+01
	14	898.56	1.17E+01	10.23			1.17E+01	1.02E+01
	15	1000.12	7.77E+00	10.44			7.77E+00	1.04E+01
	16	1039.56	7.00E+00	8.72			7.00E+00	8.72E+00

Analysis Report for 1506114-05

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Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
17	1171.17	1.11E+01	12.81			1.11E+01	1.28E+01
18	1238.19	8.64E+00	7.87	1.40E+00	2.38E+00	7.24E+00	8.23E+00
19	1303.03	9.00E+00	6.00			9.00E+00	6.00E+00
20	1461.20	2.17E+01	12.03	1.02E+01	2.32E+00	1.15E+01	1.23E+01
21	2203.17	7.80E+00	8.06			7.80E+00	8.06E+00
22	2783.55	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 9:27:17AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	23.16	1.49E+02	94.07			1.49E+02	9.41E+01
	2	47.15	1.57E+02	84.00	5.47E+01	1.18E+01	1.03E+02	8.48E+01
	3	76.54	7.25E+01	40.77			7.25E+01	4.08E+01
	4	185.81	8.54E+01	39.75	4.79E+01	7.81E+00	3.75E+01	4.05E+01
	5	239.22	1.07E+02	43.21	2.21E+01	3.31E+00	8.45E+01	4.33E+01
m	6	359.07	1.47E+01	13.86			1.47E+01	1.39E+01
	7	367.62	1.51E+01	16.07			1.51E+01	1.61E+01
	8	574.75	1.90E+01	15.17			1.90E+01	1.52E+01
	9	588.19	1.69E+01	14.18			1.69E+01	1.42E+01
	10	630.04	2.43E+01	25.79			2.43E+01	2.58E+01
	11	664.94	3.34E+01	30.63			3.34E+01	3.06E+01
	12	713.19	1.81E+01	18.28			1.81E+01	1.83E+01
	13	889.01	1.89E+01	12.17			1.89E+01	1.22E+01
	14	898.56	1.17E+01	10.23			1.17E+01	1.02E+01
	15	1000.12	7.77E+00	10.44			7.77E+00	1.04E+01
	16	1039.56	7.00E+00	8.72			7.00E+00	8.72E+00
	17	1171.17	1.11E+01	12.81			1.11E+01	1.28E+01
	18	1238.19	8.64E+00	7.87	1.40E+00	2.38E+00	7.24E+00	8.23E+00
	19	1303.03	9.00E+00	6.00			9.00E+00	6.00E+00
	20	1461.20	2.17E+01	12.03	1.02E+01	2.32E+00	1.15E+01	1.23E+01
	21	2203.17	7.80E+00	8.06			7.80E+00	8.06E+00
	22	2783.55	5.00E+00	4.47			5.00E+00	4.47E+00

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.976	1460.81	*	10.67	1.20E+00	1.28E+00
PB-210	0.934	46.50	*	4.25	9.01E+00	7.53E+00
PB-212	0.844	238.63	*	44.60	5.49E-01	2.86E-01
		300.09		3.41		
RA-226	0.974	186.21	*	3.28	2.80E+00	5.96E+00
PA-234M	0.875	1001.03	*	0.92	6.99E+00	9.41E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:27:17AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	23.16	4.12988E-02	31.64		
	3	76.54	2.01460E-02	28.11		
m	6	359.07	4.07357E-03	47.24		
	7	367.62	4.19225E-03	53.24		

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
8	574.75	5.27778E-03	39.91		
9	588.19	4.69907E-03	41.90		
10	630.04	6.74355E-03	53.11		
11	664.94	9.28241E-03	45.83	Tol.	CE-143
12	713.19	5.02193E-03	50.56		
13	889.01	5.23889E-03	32.25	Tol.	SC-46
14	898.56	3.25163E-03	43.72	Tol.	Y-88
16	1039.56	1.94444E-03	62.27		
17	1171.17	3.07540E-03	57.83		
18	1238.19	2.01126E-03	56.81	Tol.	CO-56
19	1303.03	2.50000E-03	33.33		
21	2203.17	2.16667E-03	51.68		
22	2783.55	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.20E+00	1.28E+00
PB-210	0.93	46.50	*	4.25	9.01E+00	7.53E+00
PB-212	0.84	238.63	*	44.60	5.49E-01	2.86E-01
		300.09		3.41		
RA-226	0.97	186.21	*	3.28	2.80E+00	5.96E+00
PA-234M	0.87	1001.03	*	0.92	6.99E+00	9.41E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.976	1.20E+00	1.28E+00	
PB-210	0.934	9.01E+00	7.53E+00	
PB-212	0.844	5.49E-01	2.86E-01	
RA-226	0.974	2.80E+00	5.96E+00	
PA-234M	0.875	6.99E+00	9.41E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:27:17AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	23.16	4.12988E-02	31.64		
	3	76.54	2.01460E-02	28.11		
m	6	359.07	4.07357E-03	47.24		
	7	367.62	4.19225E-03	53.24		
	8	574.75	5.27778E-03	39.91		
	9	588.19	4.69907E-03	41.90		
	10	630.04	6.74355E-03	53.11		
	11	664.94	9.28241E-03	45.83	Tol.	CE-143
	12	713.19	5.02193E-03	50.56		
	13	889.01	5.23889E-03	32.25	Tol.	SC-46
	14	898.56	3.25163E-03	43.72	Tol.	Y-88
	16	1039.56	1.94444E-03	62.27		
	17	1171.17	3.07540E-03	57.83		
	18	1238.19	2.01126E-03	56.81	Tol.	CO-56
	19	1303.03	2.50000E-03	33.33		
	21	2203.17	2.16667E-03	51.68		
	22	2783.55	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-2.15E-01	1.66E+00	1.66E+00
+	NA-22	1274.54		99.94	4.81E-02	1.45E-01	1.45E-01
+	NA-24	1368.53		99.99	-1.45E+15	1.03E+16	1.22E+16
		2754.09		99.86	0.00E+00		1.03E+16
+	AL-26	1808.65		99.76	2.51E-03	1.64E-01	1.64E-01
+	K-40	1460.81	*	10.67	1.20E+00	2.02E+00	2.02E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-2.13E-02	6.94E-02	6.94E-02
		78.34		96.00	6.22E-02		9.22E-02
+	SC-46	889.25		99.98	1.73E-01	2.61E-01	2.61E-01
		1120.51		99.99	1.66E-01		2.97E-01
+	V-48	983.52		99.98	-3.55E-01	5.18E-01	5.93E-01
		1312.10		97.50	-1.93E-01		5.18E-01
+	CR-51	320.08		9.83	9.45E-01	2.93E+00	2.93E+00
+	MN-54	834.83		99.97	2.70E-02	1.78E-01	1.78E-01
+	CO-56	846.75		99.96	5.08E-02	2.51E-01	2.51E-01
		1037.75		14.03	6.21E-01		1.50E+00
		1238.25		67.00	3.35E-02		3.62E-01
		1771.40		15.51	1.09E-01		1.63E+00
		2598.48		16.90	1.03E-01		9.58E-01
+	CO-57	122.06		85.51	1.11E-02	1.13E-01	1.13E-01
		136.48		10.60	-3.06E-01		8.78E-01
+	CO-58	810.76		99.40	4.26E-02	1.93E-01	1.93E-01
+	FE-59	1099.22		56.50	-9.99E-02	5.13E-01	5.13E-01
		1291.56		43.20	-7.54E-02		7.33E-01
+	CO-60	1173.22		100.00	-7.15E-03	1.83E-01	2.09E-01
		1332.49		100.00	5.04E-02		1.83E-01
+	ZN-65	1115.52		50.75	2.12E-01	4.83E-01	4.83E-01
+	GA-67	93.31		35.70	3.78E+02	4.79E+02	4.79E+02
		208.95		2.24	1.65E+03		8.13E+03
		300.22		16.00	2.53E+02		1.09E+03
+	SE-75	121.11		16.70	1.42E-01	1.81E-01	6.64E-01
		136.00		59.20	6.39E-02		1.81E-01
		264.65		59.80	9.33E-02		2.26E-01
		279.53		25.20	-1.15E-01		5.09E-01
		400.65		11.40	-4.27E-01		1.32E+00
+	RB-82	776.52		13.00	1.40E+00	3.36E+00	3.36E+00
+	RB-83	520.41		46.00	-5.77E-02	2.96E-01	2.96E-01
		529.64		30.30	-1.62E-01		5.50E-01
		552.65		16.40	3.86E-01		9.86E-01
+	KR-85	513.99		0.43	1.20E+01	4.06E+01	4.06E+01
+	SR-85	513.99		99.27	7.57E-02	2.57E-01	2.57E-01
+	Y-88	898.02		93.40	6.62E-02	2.23E-01	2.23E-01
		1836.01		99.38	-9.09E-03		2.39E-01
+	NB-93M	16.57		9.43	-4.94E+03	1.67E+04	1.67E+04
+	NB-94	702.63		100.00	-6.16E-02	1.39E-01	1.67E-01
		871.10		100.00	-9.24E-02		1.39E-01

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	4.25E-02	3.28E-01	3.28E-01
+	NB-95M	235.69	25.00	-7.40E+02	4.24E+02	4.24E+02
+	ZR-95	724.18	43.70	1.65E-02	4.10E-01	5.23E-01
		756.72	55.30	4.36E-02		4.10E-01
+	MO-99	181.06	6.20	-1.63E+03	7.40E+03	1.10E+04
		739.58	12.80	-1.13E+03		7.40E+03
		778.00	4.50	-2.71E+02		2.36E+04
+	RU-103	497.08	89.00	-5.11E-02	2.50E-01	2.50E-01
+	RU-106	621.84	9.80	4.15E-01	1.48E+00	1.48E+00
+	AG-108M	433.93	89.90	-1.91E-02	1.30E-01	1.30E-01
		614.37	90.40	-5.53E-02		1.88E-01
		722.95	90.50	-2.90E-02		1.66E-01
+	CD-109	88.03	3.72	-3.73E-01	2.40E+00	2.40E+00
+	AG-110M	657.75	93.14	-1.14E-02	1.78E-01	1.78E-01
		677.61	10.53	1.89E-01		1.52E+00
		706.67	16.46	3.86E-01		1.20E+00
		763.93	21.98	4.29E-01		8.66E-01
		884.67	71.63	1.15E-02		2.39E-01
		1384.27	23.94	-2.73E-03		8.18E-01
+	CD-113M	263.70	0.02	1.98E+02	5.12E+02	5.12E+02
+	SN-113	255.12	1.93	-2.03E+00	2.27E-01	6.44E+00
		391.69	64.90	6.18E-02		2.27E-01
+	TE123M	159.00	84.10	-3.24E-03	1.44E-01	1.44E-01
+	SB-124	602.71	97.87	-6.42E-02	2.35E-01	2.35E-01
		645.85	7.26	2.53E-01		2.77E+00
		722.78	11.10	-3.54E-01		2.02E+00
		1691.02	49.00	2.96E-02		4.85E-01
+	I-125	35.49	6.49	-7.89E+00	1.61E+01	1.61E+01
+	SB-125	176.33	6.89	2.41E-01	3.47E-01	1.47E+00
		427.89	29.33	-2.33E-01		3.47E-01
		463.38	10.35	2.93E-01		1.19E+00
		600.56	17.80	1.27E-01		8.68E-01
		635.90	11.32	-7.50E-02		1.49E+00
+	SB-126	414.70	83.30	-3.68E-02	9.00E-01	9.00E-01
		666.33	99.60	-4.74E-01		1.24E+00
		695.00	99.60	-1.76E-01		1.14E+00
		720.50	53.80	-7.82E-02		1.83E+00
+	SN-126	87.57	37.00	-3.56E-02	2.29E-01	2.29E-01
+	SB-127	473.00	25.00	-3.47E+01	2.11E+02	2.40E+02
		685.20	35.70	-1.05E+01		2.11E+02
		783.80	14.70	-5.00E+01		5.12E+02
+	I-129	29.78	57.00	-2.44E-01	3.34E+00	3.34E+00
		33.60	13.20	2.27E+00		7.25E+00
		39.58	7.52	-4.84E+00		6.04E+00
+	I-131	284.30	6.05	-2.47E+01	2.75E+00	3.87E+01
		364.48	81.20	-3.32E+00		2.75E+00
		636.97	7.26	-2.65E+00		4.53E+01
		722.89	1.80	-3.00E+01		1.71E+02

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	-4.03E+02	1.82E+02	2.85E+03
			228.16	88.00	-1.66E+01		1.82E+02
+		BA-133	81.00	33.00	-6.89E-03	2.02E-01	2.02E-01
			302.84	17.80	-2.46E-01		5.17E-01
			356.01	60.00	-1.81E-01		2.14E-01
+		I-133	529.87	86.30	4.43E+10	2.39E+11	2.39E+11
+		CS-134	563.23	8.38	-1.75E-01	1.73E-01	1.46E+00
			569.32	15.43	0.00E+00		8.53E-01
			604.70	97.60	-1.23E-01		1.73E-01
			795.84	85.40	2.60E-02		1.95E-01
			801.93	8.73	7.08E-01		1.92E+00
+		CS-135	268.24	16.00	-5.52E-01	6.78E-01	6.78E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	-4.25E+00	7.78E-01	7.85E+00
			163.89	4.61	-1.80E+00		1.28E+01
			176.55	13.56	3.33E-01		4.56E+00
			273.65	12.66	2.87E+00		6.01E+00
			340.57	48.50	-7.27E-02		1.70E+00
			818.50	99.70	8.94E-03		7.78E-01
			1048.07	79.60	-5.65E-01		1.09E+00
			1235.34	19.70	-7.88E-01		5.93E+00
+		CS-137	661.65	85.12	8.79E-02	2.03E-01	2.03E-01
+		LA-138	788.74	34.00	3.01E-02	2.76E-01	4.16E-01
			1435.80	66.00	1.49E-01		2.76E-01
+		CE-139	165.85	80.35	-3.63E-02	1.39E-01	1.39E-01
+		BA-140	162.64	6.70	-3.76E+00	3.26E+00	9.12E+00
			304.84	4.50	-9.36E+00		1.39E+01
			423.70	3.20	-1.89E+00		2.24E+01
			437.55	2.00	1.52E-01		4.07E+01
			537.32	25.00	-5.01E-01		3.26E+00
+		LA-140	328.77	20.50	-1.05E+00	1.30E+00	3.45E+00
			487.03	45.50	-5.74E-01		1.52E+00
			815.85	23.50	-1.47E+00		3.16E+00
			1596.49	95.49	4.10E-01		1.30E+00
+		CE-141	145.44	48.40	-2.33E-01	3.92E-01	3.92E-01
+		CE-143	57.36	11.80	3.79E+07	1.38E+07	5.62E+07
			293.26	42.00	4.79E+05		1.38E+07
			664.55	5.20	1.48E+07		1.66E+08
+		CE-144	133.54	10.80	-2.10E-01	8.31E-01	8.31E-01
+		PM-144	476.78	42.00	-3.62E-02	1.66E-01	2.79E-01
			618.01	98.60	-1.09E-02		1.67E-01
			696.49	99.49	-3.86E-02		1.66E-01
+		PM-145	36.85	21.70	1.05E-01	1.46E+00	2.83E+00
			37.36	39.70	5.40E-02		1.46E+00
			42.30	15.10	3.18E-01		2.39E+00
			72.40	2.31	1.86E+00		3.49E+00
+		PM-146	453.90	39.94	1.29E-01	3.17E-01	3.17E-01

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90	14.01	7.62E-02	3.17E-01	9.67E-01
		747.13	13.10	1.60E-01		1.24E+00
+	ND-147	91.11	28.90	1.19E+00	3.19E+00	3.19E+00
		531.02	13.10	4.52E+00		9.91E+00
+	PM-149	285.90	3.10	-7.77E+04	2.26E+05	2.26E+05
+	EU-152	121.78	20.50	4.25E-02	4.31E-01	4.31E-01
		244.69	5.40	3.66E-01		2.06E+00
		344.27	19.13	1.56E-01		6.68E-01
		778.89	9.20	-1.51E-01		1.70E+00
		964.01	10.40	6.74E-01		1.86E+00
		1085.78	7.22	-1.29E+00		1.85E+00
		1112.02	9.60	-8.17E-01		1.84E+00
		1407.95	14.94	5.92E-01		1.26E+00
+	GD-153	97.43	31.30	-1.63E-02	2.95E-01	2.95E-01
		103.18	22.20	-7.48E-02		4.36E-01
+	EU-154	123.07	40.50	-8.72E-02	2.11E-01	2.11E-01
		723.30	19.70	-1.34E-01		7.66E-01
		873.19	11.50	6.49E-02		1.35E+00
		996.32	10.30	-3.83E-01		1.14E+00
		1004.76	17.90	-4.68E-02		8.80E-01
		1274.45	35.50	1.33E-01		4.02E-01
+	EU-155	86.50	30.90	-4.72E-02	2.90E-01	2.90E-01
		105.30	20.70	3.42E-01		4.37E-01
+	EU-156	811.77	10.40	9.84E-01	6.26E+00	6.26E+00
		1153.47	7.20	7.45E-01		9.00E+00
		1230.71	8.90	3.26E+00		1.06E+01
+	HO-166M	184.41	72.60	1.56E-01	1.94E-01	1.94E-01
		280.45	29.60	-8.01E-02		3.55E-01
		410.94	11.10	-2.27E-01		9.64E-01
		711.69	54.10	-4.69E-02		3.33E-01
+	TM-171	66.72	0.14	8.57E+00	5.24E+01	5.24E+01
+	HF-172	81.75	4.52	-5.13E-01	7.70E-01	1.59E+00
		125.81	11.30	-3.80E-02		7.70E-01
+	LU-172	181.53	20.60	5.32E-01	1.04E+01	1.95E+01
		810.06	16.63	6.79E+00		3.07E+01
		912.12	15.25	3.39E+01		5.25E+01
		1093.66	62.50	-5.35E-01		1.04E+01
+	LU-173	100.72	5.24	6.94E-01	6.61E-01	1.77E+00
		272.11	21.20	6.15E-01		6.61E-01
+	HF-175	343.40	84.00	5.74E-02	2.22E-01	2.22E-01
+	LU-176	88.34	13.30	-9.89E-02	1.23E-01	6.37E-01
		201.83	86.00	4.15E-02		1.29E-01
		306.78	94.00	7.78E-02		1.23E-01
+	TA-182	67.75	41.20	-6.04E-02	1.97E-01	1.97E-01
		1121.30	34.90	4.80E-01		7.73E-01
		1189.05	16.23	-6.21E-02		1.09E+00
		1221.41	26.98	2.23E-01		8.38E-01
		1231.02	11.44	-2.45E-01		1.92E+00
+	IR-192	308.46	29.68	-8.06E-02	3.32E-01	5.30E-01

Analysis Report for 1506114-05

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	2.40E-02	3.32E-01	3.32E-01
+	HG-203	279.19		77.30	-1.64E-01	2.09E-01	2.09E-01
+	BI-207	569.67		97.72	0.00E+00	1.31E-01	1.31E-01
		1063.62		74.90	-2.33E-02		2.19E-01
+	TL-208	583.14		30.22	1.93E-01	5.47E-01	5.47E-01
		860.37		4.48	2.29E+00		4.01E+00
		2614.66		35.85	2.14E-01		5.93E-01
+	BI-210M	262.00		45.00	-6.90E-02	2.63E-01	2.63E-01
		300.00		23.00	1.02E-01		4.39E-01
+	PB-210	46.50	*	4.25	9.01E+00	1.21E+01	1.21E+01
+	PB-211	404.84		2.90	-2.00E-01	4.04E+00	4.04E+00
		831.96		2.90	-4.91E-01		5.65E+00
+	BI-212	727.17		11.80	5.49E-01	1.43E+00	1.43E+00
		1620.62		2.75	-4.30E-01		4.63E+00
+	PB-212	238.63	*	44.60	5.49E-01	4.37E-01	4.37E-01
		300.09		3.41	6.88E-01		2.96E+00
+	BI-214	609.31		46.30	2.06E-01	4.29E-01	4.29E-01
		1120.29		15.10	8.22E-01		1.47E+00
		1764.49		15.80	6.65E-01		1.52E+00
		2204.22		4.98	8.81E-02		4.40E+00
+	PB-214	295.21		19.19	1.91E-01	4.22E-01	6.48E-01
		351.92		37.19	1.93E-01		4.22E-01
+	RN-219	401.80		6.50	1.91E-01	1.90E+00	1.90E+00
+	RA-223	323.87		3.88	1.00E+00	3.08E+00	3.08E+00
+	RA-224	240.98		3.95	4.23E+00	3.93E+00	3.93E+00
+	RA-225	40.00		31.00	-5.82E+00	7.26E+00	7.26E+00
+	RA-226	186.21	*	3.28	2.80E+00	4.95E+00	4.95E+00
+	TH-227	50.10		8.40	-3.56E-01	1.10E+00	2.52E+00
		236.00		11.50	-1.92E+00		1.10E+00
		256.20		6.30	-4.86E-01		1.68E+00
+	AC-228	338.32		11.40	3.89E-01	7.44E-01	1.05E+00
		911.07		27.70	1.65E-01		7.44E-01
		969.11		16.60	-4.40E-02		1.04E+00
+	TH-230	48.44		16.90	-1.10E+00	1.47E+00	1.47E+00
		62.85		4.60	1.75E+00		2.22E+00
		67.67		0.37	-5.45E+00		1.77E+01
+	PA-231	283.67		1.60	-4.55E+00	3.97E+00	7.11E+00
		302.67		2.30	-1.89E+00		3.97E+00
+	TH-231	25.64		14.70	3.88E+01	1.21E+00	4.59E+01
		84.21		6.40	7.85E-01		1.21E+00
+	PA-233	311.98		38.60	9.20E-02	7.43E-01	7.43E-01
+	PA-234	131.20		20.40	-1.35E-02	4.09E-01	4.09E-01
		733.99		8.80	-4.83E-01		1.52E+00
		946.00		12.00	-8.02E-01		1.24E+00
+	PA-234M	1001.03	*	0.92	6.99E+00	1.55E+01	1.55E+01
+	TH-234	63.29		3.80	2.10E+00	2.67E+00	2.67E+00
+	U-235	143.76		10.50	2.33E-02	8.44E-01	8.44E-01

Analysis Report for 1506114-05

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35	4.70	-8.05E-01	8.44E-01	1.95E+00
		205.31	4.70	9.11E-01		2.32E+00
+	NP-237	86.50	12.60	-1.14E-01	7.02E-01	7.02E-01
+	NP-239	106.10	22.70	-5.36E+03	1.11E+04	1.11E+04
		228.18	10.70	-2.38E+03		2.61E+04
		277.60	14.10	1.13E+04		2.29E+04
+	AM-241	59.54	35.90	-7.04E-02	2.71E-01	2.71E-01
+	AM-243	74.67	66.00	-3.51E-02	1.34E-01	1.34E-01
+	CM-243	209.75	3.29	-4.11E-01	7.63E-01	3.18E+00
		228.14	10.60	-7.97E-02		8.73E-01
		277.60	14.00	3.77E-01		7.63E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.66E+00	1.66E+00	-2.15E-01	7.34E-01
	NA-22	1274.54		99.94	1.45E-01	1.45E-01	4.81E-02	5.87E-02
	NA-24	1368.53		99.99	1.22E+16	1.03E+16	-1.45E+15	4.99E+15
		2754.09		99.86	1.03E+16		0.00E+00	3.84E+15
	AL-26	1808.65		99.76	1.64E-01	1.64E-01	2.51E-03	6.52E-02
+	K-40	1460.81	*	10.67	2.02E+00	2.02E+00	1.20E+00	8.70E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.94E-02	6.94E-02	-2.13E-02	3.18E-02
		78.34		96.00	9.22E-02		6.22E-02	4.35E-02
	SC-46	889.25		99.98	2.61E-01	2.61E-01	1.73E-01	1.17E-01
		1120.51		99.99	2.97E-01		1.66E-01	1.32E-01
	V-48	983.52		99.98	5.93E-01	5.18E-01	-3.55E-01	2.46E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
V-48	1312.10	97.50	5.18E-01	5.18E-01	-1.93E-01	1.94E-01
CR-51	320.08	9.83	2.93E+00	2.93E+00	9.45E-01	1.35E+00
MN-54	834.83	99.97	1.78E-01	1.78E-01	2.70E-02	7.83E-02
CO-56	846.75	99.96	2.51E-01	2.51E-01	5.08E-02	1.12E-01
	1037.75	14.03	1.50E+00		6.21E-01	6.38E-01
	1238.25	67.00	3.62E-01		3.35E-02	1.54E-01
	1771.40	15.51	1.63E+00		1.09E-01	6.69E-01
	2598.48	16.90	9.58E-01		1.03E-01	3.39E-01
CO-57	122.06	85.51	1.13E-01	1.13E-01	1.11E-02	5.29E-02
	136.48	10.60	8.78E-01		-3.06E-01	4.10E-01
CO-58	810.76	99.40	1.93E-01	1.93E-01	4.26E-02	8.30E-02
FE-59	1099.22	56.50	5.13E-01	5.13E-01	-9.99E-02	2.20E-01
	1291.56	43.20	7.33E-01		-7.54E-02	3.12E-01
CO-60	1173.22	100.00	2.09E-01	1.83E-01	-7.15E-03	9.14E-02
	1332.49	100.00	1.83E-01		5.04E-02	7.73E-02
ZN-65	1115.52	50.75	4.83E-01	4.83E-01	2.12E-01	2.15E-01
GA-67	93.31	35.70	4.79E+02	4.79E+02	3.78E+02	2.28E+02
	208.95	2.24	8.13E+03		1.65E+03	3.79E+03
	300.22	16.00	1.09E+03		2.53E+02	4.94E+02
SE-75	121.11	16.70	6.64E-01	1.81E-01	1.42E-01	3.13E-01
	136.00	59.20	1.81E-01		6.39E-02	8.50E-02
	264.65	59.80	2.26E-01		9.33E-02	1.05E-01
	279.53	25.20	5.09E-01		-1.15E-01	2.33E-01
	400.65	11.40	1.32E+00		-4.27E-01	6.01E-01
RB-82	776.52	13.00	3.36E+00	3.36E+00	1.40E+00	1.50E+00
RB-83	520.41	46.00	2.96E-01	2.96E-01	-5.77E-02	1.29E-01
	529.64	30.30	5.50E-01		-1.62E-01	2.45E-01
	552.65	16.40	9.86E-01		3.86E-01	4.36E-01
KR-85	513.99	0.43	4.06E+01	4.06E+01	1.20E+01	1.88E+01
SR-85	513.99	99.27	2.57E-01	2.57E-01	7.57E-02	1.19E-01
Y-88	898.02	93.40	2.23E-01	2.23E-01	6.62E-02	9.78E-02
	1836.01	99.38	2.39E-01		-9.09E-03	9.79E-02
NB-93M	16.57	9.43	1.67E+04	1.67E+04	-4.94E+03	8.07E+03
NB-94	702.63	100.00	1.67E-01	1.39E-01	-6.16E-02	7.53E-02
	871.10	100.00	1.39E-01		-9.24E-02	5.96E-02
NB-95	765.79	99.81	3.28E-01	3.28E-01	4.25E-02	1.46E-01
NB-95M	235.69	25.00	4.24E+02	4.24E+02	-7.40E+02	1.99E+02
ZR-95	724.18	43.70	5.23E-01	4.10E-01	1.65E-02	2.33E-01
	756.72	55.30	4.10E-01		4.36E-02	1.82E-01
MO-99	181.06	6.20	1.10E+04	7.40E+03	-1.63E+03	5.12E+03
	739.58	12.80	7.40E+03		-1.13E+03	3.23E+03
	778.00	4.50	2.36E+04		-2.71E+02	1.04E+04
RU-103	497.08	89.00	2.50E-01	2.50E-01	-5.11E-02	1.12E-01
RU-106	621.84	9.80	1.48E+00	1.48E+00	4.15E-01	6.58E-01
AG-108M	433.93	89.90	1.30E-01	1.30E-01	-1.91E-02	5.86E-02
	614.37	90.40	1.88E-01		-5.53E-02	8.55E-02
	722.95	90.50	1.66E-01		-2.90E-02	7.32E-02
CD-109	88.03	3.72	2.40E+00	2.40E+00	-3.73E-01	1.13E+00
AG-110M	657.75	93.14	1.78E-01	1.78E-01	-1.14E-02	7.98E-02
	677.61	10.53	1.52E+00		1.89E-01	6.75E-01
	706.67	16.46	1.20E+00		3.86E-01	5.42E-01
	763.93	21.98	8.66E-01		4.29E-01	3.88E-01
	884.67	71.63	2.39E-01		1.15E-02	1.04E-01

Analysis Report for 1506114-05

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	1384.27	23.94	8.18E-01	1.78E-01	-2.73E-03	3.43E-01
CD-113M	263.70	0.02	5.12E+02	5.12E+02	1.98E+02	2.38E+02
SN-113	255.12	1.93	6.44E+00	2.27E-01	-2.03E+00	2.96E+00
	391.69	64.90	2.27E-01		6.18E-02	1.03E-01
TE123M	159.00	84.10	1.44E-01	1.44E-01	-3.24E-03	6.79E-02
SB-124	602.71	97.87	2.35E-01	2.35E-01	-6.42E-02	1.06E-01
	645.85	7.26	2.77E+00		2.53E-01	1.22E+00
	722.78	11.10	2.02E+00		-3.54E-01	8.93E-01
	1691.02	49.00	4.85E-01		2.96E-02	1.92E-01
I-125	35.49	6.49	1.61E+01	1.61E+01	-7.89E+00	7.71E+00
SB-125	176.33	6.89	1.47E+00	3.47E-01	2.41E-01	6.86E-01
	427.89	29.33	3.47E-01		-2.33E-01	1.53E-01
	463.38	10.35	1.19E+00		2.93E-01	5.36E-01
	600.56	17.80	8.68E-01		1.27E-01	3.91E-01
	635.90	11.32	1.49E+00		-7.50E-02	6.76E-01
SB-126	414.70	83.30	9.00E-01	9.00E-01	-3.68E-02	4.01E-01
	666.33	99.60	1.24E+00		-4.74E-01	5.60E-01
	695.00	99.60	1.14E+00		-1.76E-01	5.12E-01
	720.50	53.80	1.83E+00		-7.82E-02	8.03E-01
SN-126	87.57	37.00	2.29E-01	2.29E-01	-3.56E-02	1.08E-01
SB-127	473.00	25.00	2.40E+02	2.11E+02	-3.47E+01	1.06E+02
	685.20	35.70	2.11E+02		-1.05E+01	9.30E+01
	783.80	14.70	5.12E+02		-5.00E+01	2.21E+02
I-129	29.78	57.00	3.34E+00	3.34E+00	-2.44E-01	1.60E+00
	33.60	13.20	7.25E+00		2.27E+00	3.48E+00
	39.58	7.52	6.04E+00		-4.84E+00	2.90E+00
I-131	284.30	6.05	3.87E+01	2.75E+00	-2.47E+01	1.78E+01
	364.48	81.20	2.75E+00		-3.32E+00	1.24E+00
	636.97	7.26	4.53E+01		-2.65E+00	2.05E+01
	722.89	1.80	1.71E+02		-3.00E+01	7.56E+01
TE-132	49.72	13.10	2.85E+03	1.82E+02	-4.03E+02	1.37E+03
	228.16	88.00	1.82E+02		-1.66E+01	8.34E+01
BA-133	81.00	33.00	2.02E-01	2.02E-01	-6.89E-03	9.36E-02
	302.84	17.80	5.17E-01		-2.46E-01	2.33E-01
	356.01	60.00	2.14E-01		-1.81E-01	9.83E-02
I-133	529.87	86.30	2.39E+11	2.39E+11	4.43E+10	1.08E+11
CS-134	563.23	8.38	1.46E+00	1.73E-01	-1.75E-01	6.40E-01
	569.32	15.43	8.53E-01		0.00E+00	3.78E-01
	604.70	97.60	1.73E-01		-1.23E-01	7.85E-02
	795.84	85.40	1.95E-01		2.60E-02	8.65E-02
	801.93	8.73	1.92E+00		7.08E-01	8.51E-01
CS-135	268.24	16.00	6.78E-01	6.78E-01	-5.52E-01	3.12E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	7.85E+00	7.78E-01	-4.25E+00	3.68E+00
	163.89	4.61	1.28E+01		-1.80E+00	5.98E+00
	176.55	13.56	4.56E+00		3.33E-01	2.13E+00
	273.65	12.66	6.01E+00		2.87E+00	2.79E+00
	340.57	48.50	1.70E+00		-7.27E-02	7.84E-01
	818.50	99.70	7.78E-01		8.94E-03	3.29E-01
	1048.07	79.60	1.09E+00		-5.65E-01	4.50E-01
	1235.34	19.70	5.93E+00		-7.88E-01	2.54E+00

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-137	661.65	85.12	2.03E-01	2.03E-01	8.79E-02	9.21E-02
LA-138	788.74	34.00	4.16E-01	2.76E-01	3.01E-02	1.81E-01
	1435.80	66.00	2.76E-01		1.49E-01	1.16E-01
CE-139	165.85	80.35	1.39E-01	1.39E-01	-3.63E-02	6.50E-02
BA-140	162.64	6.70	9.12E+00	3.26E+00	-3.76E+00	4.25E+00
	304.84	4.50	1.39E+01		-9.36E+00	6.25E+00
	423.70	3.20	2.24E+01		-1.89E+00	9.99E+00
	437.55	2.00	4.07E+01		1.52E-01	1.84E+01
	537.32	25.00	3.26E+00		-5.01E-01	1.45E+00
LA-140	328.77	20.50	3.45E+00	1.30E+00	-1.05E+00	1.57E+00
	487.03	45.50	1.52E+00		-5.74E-01	6.67E-01
	815.85	23.50	3.16E+00		-1.47E+00	1.31E+00
	1596.49	95.49	1.30E+00		4.10E-01	5.40E-01
CE-141	145.44	48.40	3.92E-01	3.92E-01	-2.33E-01	1.83E-01
CE-143	57.36	11.80	5.62E+07	1.38E+07	3.79E+07	2.68E+07
	293.26	42.00	1.38E+07		4.79E+05	6.41E+06
	664.55	5.20	1.66E+08		1.48E+07	7.57E+07
CE-144	133.54	10.80	8.31E-01	8.31E-01	-2.10E-01	3.88E-01
PM-144	476.78	42.00	2.79E-01	1.66E-01	-3.62E-02	1.23E-01
	618.01	98.60	1.67E-01		-1.09E-02	7.53E-02
	696.49	99.49	1.66E-01		-3.86E-02	7.41E-02
PM-145	36.85	21.70	2.83E+00	1.46E+00	1.05E-01	1.36E+00
	37.36	39.70	1.46E+00		5.40E-02	6.99E-01
	42.30	15.10	2.39E+00		3.18E-01	1.15E+00
	72.40	2.31	3.49E+00		1.86E+00	1.63E+00
PM-146	453.90	39.94	3.17E-01	3.17E-01	1.29E-01	1.43E-01
	735.90	14.01	9.67E-01		7.62E-02	4.20E-01
	747.13	13.10	1.24E+00		1.60E-01	5.51E-01
ND-147	91.11	28.90	3.19E+00	3.19E+00	1.19E+00	1.52E+00
	531.02	13.10	9.91E+00		4.52E+00	4.48E+00
PM-149	285.90	3.10	2.26E+05	2.26E+05	-7.77E+04	1.05E+05
EU-152	121.78	20.50	4.31E-01	4.31E-01	4.25E-02	2.02E-01
	244.69	5.40	2.06E+00		3.66E-01	9.54E-01
	344.27	19.13	6.68E-01		1.56E-01	3.08E-01
	778.89	9.20	1.70E+00		-1.51E-01	7.48E-01
	964.01	10.40	1.86E+00		6.74E-01	8.27E-01
	1085.78	7.22	1.85E+00		-1.29E+00	7.58E-01
	1112.02	9.60	1.84E+00		-8.17E-01	7.92E-01
	1407.95	14.94	1.26E+00		5.92E-01	5.34E-01
GD-153	97.43	31.30	2.95E-01	2.95E-01	-1.63E-02	1.39E-01
	103.18	22.20	4.36E-01		-7.48E-02	2.05E-01
EU-154	123.07	40.50	2.11E-01	2.11E-01	-8.72E-02	9.88E-02
	723.30	19.70	7.66E-01		-1.34E-01	3.39E-01
	873.19	11.50	1.35E+00		6.49E-02	5.85E-01
	996.32	10.30	1.14E+00		-3.83E-01	4.60E-01
	1004.76	17.90	8.80E-01		-4.68E-02	3.77E-01
	1274.45	35.50	4.02E-01		1.33E-01	1.62E-01
EU-155	86.50	30.90	2.90E-01	2.90E-01	-4.72E-02	1.37E-01
	105.30	20.70	4.37E-01		3.42E-01	2.06E-01
EU-156	811.77	10.40	6.26E+00	6.26E+00	9.84E-01	2.68E+00
	1153.47	7.20	9.00E+00		7.45E-01	3.64E+00
	1230.71	8.90	1.06E+01		3.26E+00	4.56E+00
HO-166M	184.41	72.60	1.94E-01	1.94E-01	1.56E-01	9.25E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	280.45		29.60	3.55E-01	1.94E-01	-8.01E-02	1.63E-01
		410.94		11.10	9.64E-01		-2.27E-01	4.31E-01
		711.69		54.10	3.33E-01		-4.69E-02	1.51E-01
	TM-171	66.72		0.14	5.24E+01	5.24E+01	8.57E+00	2.41E+01
	HF-172	81.75		4.52	1.59E+00	7.70E-01	-5.13E-01	7.36E-01
		125.81		11.30	7.70E-01		-3.80E-02	3.61E-01
	LU-172	181.53		20.60	1.95E+01	1.04E+01	5.32E-01	9.17E+00
		810.06		16.63	3.07E+01		6.79E+00	1.32E+01
		912.12		15.25	5.25E+01		3.39E+01	2.37E+01
		1093.66		62.50	1.04E+01		-5.35E-01	4.49E+00
	LU-173	100.72		5.24	1.77E+00	6.61E-01	6.94E-01	8.36E-01
		272.11		21.20	6.61E-01		6.15E-01	3.09E-01
	HF-175	343.40		84.00	2.22E-01	2.22E-01	5.74E-02	1.03E-01
	LU-176	88.34		13.30	6.37E-01	1.23E-01	-9.89E-02	3.00E-01
		201.83		86.00	1.29E-01		4.15E-02	6.06E-02
		306.78		94.00	1.23E-01		7.78E-02	5.63E-02
	TA-182	67.75		41.20	1.97E-01	1.97E-01	-6.04E-02	9.01E-02
		1121.30		34.90	7.73E-01		4.80E-01	3.43E-01
		1189.05		16.23	1.09E+00		-6.21E-02	4.46E-01
		1221.41		26.98	8.38E-01		2.23E-01	3.59E-01
		1231.02		11.44	1.92E+00		-2.45E-01	8.15E-01
	IR-192	308.46		29.68	5.30E-01	3.32E-01	-8.06E-02	2.43E-01
		468.07		48.10	3.32E-01		2.40E-02	1.48E-01
	HG-203	279.19		77.30	2.09E-01	2.09E-01	-1.64E-01	9.52E-02
	BI-207	569.67		97.72	1.31E-01	1.31E-01	0.00E+00	5.80E-02
		1063.62		74.90	2.19E-01		-2.33E-02	9.38E-02
	TL-208	583.14		30.22	5.47E-01	5.47E-01	1.93E-01	2.49E-01
		860.37		4.48	4.01E+00		2.29E+00	1.78E+00
		2614.66		35.85	5.93E-01		2.14E-01	2.49E-01
	BI-210M	262.00		45.00	2.63E-01	2.63E-01	-6.90E-02	1.22E-01
		300.00		23.00	4.39E-01		1.02E-01	1.99E-01
+	PB-210	46.50	*	4.25	1.21E+01	1.21E+01	9.01E+00	5.95E+00
	PB-211	404.84		2.90	4.04E+00	4.04E+00	-2.00E-01	1.82E+00
		831.96		2.90	5.65E+00		-4.91E-01	2.49E+00
	BI-212	727.17		11.80	1.43E+00	1.43E+00	5.49E-01	6.43E-01
		1620.62		2.75	4.63E+00		-4.30E-01	1.73E+00
+	PB-212	238.63	*	44.60	4.37E-01	4.37E-01	5.49E-01	2.10E-01
		300.09		3.41	2.96E+00		6.88E-01	1.35E+00
	BI-214	609.31		46.30	4.29E-01	4.29E-01	2.06E-01	1.98E-01
		1120.29		15.10	1.47E+00		8.22E-01	6.55E-01
		1764.49		15.80	1.52E+00		6.65E-01	6.56E-01
		2204.22		4.98	4.40E+00		8.81E-02	1.84E+00
	PB-214	295.21		19.19	6.48E-01	4.22E-01	1.91E-01	3.01E-01
		351.92		37.19	4.22E-01		1.93E-01	1.97E-01
	RN-219	401.80		6.50	1.90E+00	1.90E+00	1.91E-01	8.62E-01
	RA-223	323.87		3.88	3.08E+00	3.08E+00	1.00E+00	1.42E+00
	RA-224	240.98		3.95	3.93E+00	3.93E+00	4.23E+00	1.86E+00
	RA-225	40.00		31.00	7.26E+00	7.26E+00	-5.82E+00	3.49E+00
+	RA-226	186.21	*	3.28	4.95E+00	4.95E+00	2.80E+00	2.37E+00
	TH-227	50.10		8.40	2.52E+00	1.10E+00	-3.56E-01	1.21E+00
		236.00		11.50	1.10E+00		-1.92E+00	5.17E-01
		256.20		6.30	1.68E+00		-4.86E-01	7.77E-01
	AC-228	338.32		11.40	1.05E+00	7.44E-01	3.89E-01	4.79E-01

Analysis Report for 1506114-05

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	911.07		27.70	7.44E-01	7.44E-01	1.65E-01	3.35E-01
		969.11		16.60	1.04E+00		-4.40E-02	4.52E-01
	TH-230	48.44		16.90	1.47E+00	1.47E+00	-1.10E+00	7.07E-01
		62.85		4.60	2.22E+00		1.75E+00	1.05E+00
		67.67		0.37	1.77E+01		-5.45E+00	8.12E+00
	PA-231	283.67		1.60	7.11E+00	3.97E+00	-4.55E+00	3.28E+00
		302.67		2.30	3.97E+00		-1.89E+00	1.79E+00
	TH-231	25.64		14.70	4.59E+01	1.21E+00	3.88E+01	2.21E+01
		84.21		6.40	1.21E+00		7.85E-01	5.65E-01
	PA-233	311.98		38.60	7.43E-01	7.43E-01	9.20E-02	3.41E-01
	PA-234	131.20		20.40	4.09E-01	4.09E-01	-1.35E-02	1.91E-01
		733.99		8.80	1.52E+00		-4.83E-01	6.60E-01
		946.00		12.00	1.24E+00		-8.02E-01	5.31E-01
+	PA-234M	1001.03	*	0.92	1.55E+01	1.55E+01	6.99E+00	6.53E+00
	TH-234	63.29		3.80	2.67E+00	2.67E+00	2.10E+00	1.26E+00
	U-235	143.76		10.50	8.44E-01	8.44E-01	2.33E-02	3.95E-01
		163.35		4.70	1.95E+00		-8.05E-01	9.09E-01
		205.31		4.70	2.32E+00		9.11E-01	1.08E+00
	NP-237	86.50		12.60	7.02E-01	7.02E-01	-1.14E-01	3.31E-01
	NP-239	106.10		22.70	1.11E+04	1.11E+04	-5.36E+03	5.20E+03
		228.18		10.70	2.61E+04		-2.38E+03	1.20E+04
		277.60		14.10	2.29E+04		1.13E+04	1.05E+04
	AM-241	59.54		35.90	2.71E-01	2.71E-01	-7.04E-02	1.27E-01
	AM-243	74.67		66.00	1.34E-01	1.34E-01	-3.51E-02	6.31E-02
	CM-243	209.75		3.29	3.18E+00	7.63E-01	-4.11E-01	1.48E+00
		228.14		10.60	8.73E-01		-7.97E-02	4.00E-01
		277.60		14.00	7.63E-01		3.77E-01	3.50E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-05

FEEBRIS1D-09.078-079

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-09.078-079

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	1	158
9:	541	1091	824	327	737	1545	173	90
17:	97	74	59	85	88	85	81	64
25:	75	68	78	48	56	60	59	66
33:	75	62	57	54	70	76	71	77
41:	54	90	63	73	65	87	182	83
49:	69	66	50	57	50	63	45	46
57:	50	38	26	18	25	21	24	44
65:	12	20	15	11	14	15	21	23
73:	25	16	38	34	39	33	20	15
81:	16	20	20	27	25	12	17	25
89:	18	17	15	27	52	18	13	16
97:	18	16	17	19	21	17	22	15
105:	18	21	20	8	20	18	15	18
113:	20	11	12	17	16	16	22	19
121:	12	23	14	16	12	19	14	13
129:	16	17	16	6	15	15	15	16
137:	15	14	10	18	16	12	16	21
145:	10	13	13	24	19	18	15	13
153:	15	17	13	20	12	20	16	22
161:	11	14	18	12	11	13	17	15
169:	14	19	13	10	15	13	16	12
177:	13	16	11	13	16	15	13	23
185:	29	60	22	14	11	10	13	8
193:	14	16	8	17	12	21	15	8
201:	17	14	21	15	10	10	14	9
209:	13	16	12	12	13	14	9	11
217:	9	6	12	10	17	11	9	6
225:	9	10	8	10	5	9	9	17
233:	10	9	15	18	8	29	51	15
241:	15	18	19	5	11	12	9	10
249:	6	9	15	8	8	7	5	10
257:	13	13	15	10	15	11	9	14
265:	13	10	4	5	11	17	17	12
273:	14	12	4	15	2	12	8	6
281:	6	9	14	8	7	10	19	8
289:	12	10	11	7	8	12	16	11
297:	8	10	7	5	5	7	4	4
305:	7	10	3	11	13	5	11	10
313:	6	12	4	6	5	11	6	10
321:	9	9	8	9	9	9	5	9
329:	7	8	4	8	7	11	1	7
337:	5	7	11	11	10	6	11	12
345:	11	6	6	7	9	10	11	24
353:	17	8	11	11	8	6	13	3
361:	9	12	8	5	2	3	14	6

369:	9	6	6	9	5	6	6	6

Sample Title: FEEBRIS1D-09.078-079

Channel								
377:	8	5	3	6	6	7	2	7
385:	5	11	5	8	5	5	6	5
393:	8	9	5	5	7	10	8	6
401:	8	8	4	8	5	6	7	5
409:	3	6	5	8	2	6	6	4
417:	5	6	1	7	7	3	5	5
425:	5	5	4	3	3	4	7	9
433:	6	2	8	2	6	7	6	9
441:	5	7	4	1	3	4	4	2
449:	6	9	1	5	5	8	5	6
457:	2	3	4	7	7	3	7	6
465:	3	3	3	7	2	8	7	1
473:	5	3	4	3	6	4	3	4
481:	6	3	4	3	8	3	3	2
489:	1	8	3	5	2	4	3	5
497:	7	3	5	9	6	4	4	2
505:	5	5	7	2	8	22	16	21
513:	8	10	7	4	5	3	6	2
521:	3	1	4	3	5	3	4	4
529:	7	3	5	9	6	5	1	5
537:	7	5	3	5	4	1	3	6
545:	4	1	4	1	4	7	4	2
553:	4	3	2	2	3	3	4	1
561:	4	4	4	5	1	8	2	5
569:	6	7	1	3	5	4	13	3
577:	3	2	2	2	1	6	12	10
585:	1	4	6	9	6	2	3	1
593:	1	3	6	2	5	4	1	5
601:	5	5	3	4	2	5	4	10
609:	9	12	7	3	5	7	6	3
617:	4	3	4	2	6	4	2	0
625:	3	6	7	4	2	2	6	3
633:	6	3	7	5	2	5	3	4
641:	6	4	4	4	2	3	2	2
649:	2	1	1	1	6	4	3	1
657:	3	2	3	4	8	7	3	5
665:	5	2	6	7	4	5	5	2
673:	1	4	1	2	1	7	4	2
681:	4	3	1	2	5	2	0	5
689:	1	4	6	4	3	7	2	0
697:	2	7	2	5	2	4	5	3
705:	6	7	5	3	2	5	5	4
713:	6	6	7	1	2	2	2	3
721:	4	2	2	2	5	2	5	4
729:	3	5	1	4	2	3	2	2
737:	1	4	1	1	2	5	1	5
745:	3	3	2	3	4	2	3	2
753:	2	5	2	2	4	3	2	2
761:	3	3	3	2	5	7	2	1
769:	2	3	2	1	2	6	2	4
777:	3	4	2	4	0	2	2	3
785:	2	2	3	2	1	3	2	1
793:	2	4	4	3	3	2	2	3

801:	3	5	2	4	1	1	1	0

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Channel								
809:	2	3	2	4	1	0	3	0
817:	1	2	1	2	1	4	0	1
825:	3	2	3	3	4	3	2	1
833:	5	3	1	5	1	3	2	2
841:	3	3	6	3	3	4	1	3
849:	4	4	1	2	4	3	2	2
857:	3	2	5	3	3	3	3	0
865:	1	4	3	3	1	1	2	2
873:	1	2	4	3	2	2	1	2
881:	1	2	3	1	0	3	5	3
889:	4	5	5	0	2	1	0	1
897:	4	5	3	2	2	0	3	4
905:	3	4	1	1	1	2	10	9
913:	2	2	3	4	0	2	1	3
921:	5	0	1	2	3	1	2	0
929:	4	3	1	2	6	5	0	0
937:	5	0	3	3	4	5	2	1
945:	0	3	1	4	1	3	2	3
953:	1	0	1	2	0	1	1	0
961:	3	2	1	4	3	3	5	2
969:	4	1	0	1	2	2	0	1
977:	1	4	1	1	1	1	0	0
985:	3	2	2	3	3	1	3	1
993:	1	0	0	1	0	3	1	6
1001:	1	2	2	1	3	2	1	1
1009:	3	2	1	2	0	0	3	4
1017:	3	4	1	3	0	1	1	2
1025:	1	2	2	1	3	2	0	1
1033:	0	1	0	1	1	1	3	4
1041:	1	0	1	1	2	2	0	1
1049:	1	2	0	2	4	0	0	0
1057:	1	4	0	2	2	2	1	2
1065:	2	1	2	2	0	4	2	3
1073:	1	1	2	2	3	1	0	3
1081:	2	1	0	2	0	0	2	2
1089:	2	3	0	2	4	2	2	0
1097:	2	2	1	2	3	2	1	4
1105:	0	2	4	3	0	0	1	2
1113:	5	4	1	2	3	5	3	2
1121:	5	3	1	2	0	0	2	0
1129:	3	1	0	1	1	0	3	3
1137:	0	1	1	1	2	1	2	0
1145:	0	1	0	0	0	1	2	1
1153:	1	0	0	1	0	2	1	1
1161:	2	0	0	2	1	0	1	2
1169:	3	2	2	6	2	3	1	1
1177:	1	1	0	3	0	2	2	2
1185:	1	2	2	0	2	1	0	0
1193:	1	1	3	2	1	1	2	5
1201:	0	2	1	1	1	1	1	0
1209:	2	0	1	2	1	1	1	1
1217:	1	0	1	5	2	2	1	1
1225:	0	2	3	2	1	0	5	1

1233:	1	1	1	2	2	4	2	0

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Channel								
1241:	0	2	1	0	0	2	0	0
1249:	3	3	1	1	2	0	1	3
1257:	0	2	1	4	2	1	1	0
1265:	1	2	0	2	0	1	2	0
1273:	1	1	0	1	1	0	0	0
1281:	2	1	1	1	2	0	2	0
1289:	4	1	2	0	2	2	1	4
1297:	1	0	0	1	1	2	2	3
1305:	0	0	0	2	1	1	0	1
1313:	0	0	0	1	1	0	2	1
1321:	1	1	2	0	1	0	1	0
1329:	0	1	0	4	3	1	1	0
1337:	2	1	1	2	0	0	2	0
1345:	0	0	2	1	0	1	0	1
1353:	3	2	1	2	0	0	0	0
1361:	1	3	1	0	4	0	0	1
1369:	1	1	0	2	1	1	0	3
1377:	2	1	1	1	1	1	2	1
1385:	3	0	1	1	2	1	0	0
1393:	1	0	0	2	1	0	0	1
1401:	1	0	0	1	1	3	1	0
1409:	1	3	1	0	0	0	0	0
1417:	0	0	0	0	0	0	1	1
1425:	0	2	2	0	1	0	0	0
1433:	3	1	1	2	2	0	0	0
1441:	3	2	0	2	2	3	1	0
1449:	1	1	0	0	2	2	2	3
1457:	0	2	0	10	12	3	0	0
1465:	2	2	1	0	1	1	0	0
1473:	0	0	1	0	2	1	0	3
1481:	0	1	1	1	1	2	2	2
1489:	2	1	0	1	0	2	0	1
1497:	1	2	1	1	0	1	1	0
1505:	1	1	0	0	4	0	1	1
1513:	4	1	1	1	0	0	1	1
1521:	0	0	0	2	0	1	0	1
1529:	1	2	0	1	1	0	1	3
1537:	0	0	2	0	1	0	1	2
1545:	0	3	1	0	0	2	1	0
1553:	1	0	0	0	0	3	1	0
1561:	0	0	1	1	2	1	1	1
1569:	2	0	0	0	0	1	0	2
1577:	1	0	1	0	0	1	0	3
1585:	0	0	1	0	1	1	0	0
1593:	1	1	0	0	0	1	1	4
1601:	0	0	0	1	1	0	0	1
1609:	2	0	0	2	1	1	1	0
1617:	0	0	0	3	0	0	0	0
1625:	0	0	1	0	0	0	0	1
1633:	0	0	0	0	0	1	2	1
1641:	0	0	2	0	1	0	0	0
1649:	2	0	0	1	0	0	0	1
1657:	0	0	0	0	0	1	0	1

1665:	0	0	0	1	0	1	2	1

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Channel								
1673:	1	0	0	0	0	0	1	0
1681:	0	1	1	0	2	1	1	0
1689:	0	0	0	1	2	0	0	0
1697:	0	1	0	1	0	0	2	1
1705:	0	1	0	0	0	1	0	1
1713:	0	1	2	2	1	1	1	0
1721:	0	0	1	1	1	0	0	1
1729:	3	0	0	1	0	1	0	0
1737:	1	1	1	1	0	0	0	0
1745:	0	0	1	0	1	1	0	0
1753:	0	1	0	0	1	0	1	0
1761:	0	1	2	3	3	1	2	1
1769:	1	0	1	0	0	2	0	0
1777:	0	1	1	0	0	0	0	1
1785:	1	1	1	2	1	0	0	1
1793:	1	0	0	0	0	0	0	0
1801:	1	1	1	0	1	0	0	0
1809:	2	1	1	0	0	0	0	0
1817:	2	0	0	1	1	0	1	0
1825:	1	2	0	0	1	1	1	0
1833:	1	1	1	1	0	0	2	0
1841:	2	1	1	0	0	0	0	2
1849:	1	1	0	2	0	0	0	2
1857:	0	0	1	1	0	0	0	0
1865:	1	0	2	0	0	0	0	1
1873:	1	1	1	2	2	1	0	0
1881:	0	0	0	2	1	0	1	0
1889:	0	0	0	0	1	0	0	0
1897:	1	1	0	1	0	1	1	1
1905:	0	0	0	1	2	0	3	1
1913:	0	0	1	1	1	0	1	0
1921:	1	2	0	0	0	0	0	0
1929:	0	1	0	1	0	0	1	1
1937:	4	0	1	0	2	3	0	1
1945:	0	0	0	1	1	0	0	0
1953:	0	0	0	0	0	0	1	0
1961:	0	1	0	0	2	0	1	0
1969:	1	0	0	0	0	3	1	0
1977:	0	1	0	3	1	0	0	0
1985:	0	1	0	0	0	0	1	1
1993:	1	0	0	0	0	0	0	1
2001:	0	0	0	0	0	1	0	0
2009:	0	1	0	0	0	1	2	1
2017:	0	1	0	0	1	1	3	1
2025:	0	0	2	1	1	2	0	1
2033:	0	1	0	1	1	0	0	0
2041:	0	1	0	0	1	2	0	0
2049:	1	0	1	0	0	0	0	1
2057:	0	1	1	0	0	1	0	0
2065:	2	0	0	0	2	1	1	1
2073:	0	0	0	0	1	0	2	1
2081:	1	1	0	0	0	0	0	2
2089:	0	0	0	0	0	0	2	0

2097:	0	1	0	0	0	0	1	0

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Channel								
2105:	2	1	1	0	1	1	1	1
2113:	2	1	0	1	1	0	2	0
2121:	0	2	1	0	1	0	0	1
2129:	0	0	0	0	0	0	1	1
2137:	0	2	0	1	1	0	1	0
2145:	0	0	0	1	1	0	1	0
2153:	1	0	0	1	0	0	2	2
2161:	1	0	0	0	0	0	0	0
2169:	1	0	1	0	1	0	1	0
2177:	0	0	1	0	0	0	0	0
2185:	2	0	0	0	2	0	0	0
2193:	1	0	2	0	0	1	1	0
2201:	1	0	1	5	1	0	1	0
2209:	1	0	0	1	1	0	1	0
2217:	0	0	1	1	0	0	0	0
2225:	1	1	0	0	1	0	0	0
2233:	0	0	0	0	0	1	0	0
2241:	0	0	0	0	1	3	0	0
2249:	0	0	0	0	0	0	0	1
2257:	0	0	1	0	0	0	0	0
2265:	0	0	0	0	0	0	1	1
2273:	0	0	0	0	0	1	0	0
2281:	0	1	0	0	1	0	1	2
2289:	0	0	0	1	2	0	0	0
2297:	1	0	0	0	1	0	1	1
2305:	1	0	0	0	0	2	0	0
2313:	1	1	0	0	0	0	1	0
2321:	1	0	1	0	0	0	0	1
2329:	1	0	0	0	0	1	1	1
2337:	0	0	0	0	1	0	0	0
2345:	1	0	1	1	2	0	0	1
2353:	0	0	0	0	1	1	0	1
2361:	1	1	1	0	0	0	0	2
2369:	0	1	1	2	0	0	0	1
2377:	0	0	0	0	0	0	0	1
2385:	0	0	0	0	0	0	0	0
2393:	0	0	0	0	2	0	1	1
2401:	1	1	1	0	0	0	0	0
2409:	0	1	1	0	0	1	1	0
2417:	0	0	1	0	1	0	0	0
2425:	0	0	0	0	1	1	1	1
2433:	0	0	0	0	0	0	0	0
2441:	0	0	0	0	1	2	0	0
2449:	0	0	0	0	0	0	0	1
2457:	1	0	0	1	0	0	0	0
2465:	0	1	0	0	0	0	0	0
2473:	0	0	1	0	0	0	0	0
2481:	3	1	0	0	0	0	0	0
2489:	1	0	0	0	0	1	0	0
2497:	0	0	0	0	0	0	1	0
2505:	0	0	0	0	0	0	0	0
2513:	1	0	0	1	0	0	0	1
2521:	0	0	0	0	0	0	1	0

2529:	0	1	0	0	0	0	0	0

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Channel								
2537:	0	0	0	0	0	0	0	0
2545:	0	1	0	1	0	0	1	0
2553:	0	1	1	0	0	0	1	0
2561:	1	0	1	1	0	1	0	0
2569:	0	0	0	0	0	0	0	0
2577:	0	0	0	0	1	0	2	0
2585:	0	0	0	0	0	0	0	0
2593:	0	0	0	0	0	0	1	0
2601:	1	0	0	0	1	0	0	1
2609:	0	2	0	2	1	3	1	0
2617:	0	0	0	0	1	0	0	0
2625:	0	0	1	0	0	0	0	0
2633:	1	1	1	1	1	0	0	0
2641:	0	0	2	2	0	0	1	0
2649:	0	1	0	0	0	0	1	0
2657:	0	0	0	0	0	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	1	0	0	0	0	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	1	0	1	1	0	0
2697:	1	0	0	0	0	0	1	0
2705:	1	0	0	0	0	2	1	1
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	0	1	0	0	0
2729:	0	0	0	0	1	0	0	0
2737:	0	0	0	0	0	0	0	0
2745:	0	1	0	0	1	0	1	0
2753:	0	0	0	0	1	0	0	1
2761:	0	2	0	1	0	1	0	0
2769:	0	0	1	0	0	0	0	0
2777:	0	0	0	0	0	2	2	1
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	1	0	0	0	0	1
2809:	0	0	0	0	1	0	0	0
2817:	0	1	1	1	0	0	1	0
2825:	0	0	1	0	2	0	1	0
2833:	0	0	0	0	0	0	1	0
2841:	1	0	0	0	1	0	0	0
2849:	1	0	0	0	0	0	1	1
2857:	0	0	0	0	0	0	1	0
2865:	0	0	0	0	0	0	0	0
2873:	0	1	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	1	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	1	0	0
2921:	1	1	0	0	0	0	0	0
2929:	0	0	0	1	0	0	0	0
2937:	0	1	0	1	0	0	0	0
2945:	0	0	1	0	0	0	0	0
2953:	0	0	1	1	0	0	0	0

2961:	0	0	0	1	0	1	0	1

Sample Title: FEEBRIS1D-09.078-079

Channel								
2969:	0	0	0	0	0	0	0	1
2977:	0	0	0	0	0	0	0	0
2985:	2	0	0	0	0	0	0	1
2993:	0	0	1	0	0	1	0	0
3001:	0	0	0	1	2	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	0	1	0
3025:	0	0	0	0	0	1	0	0
3033:	1	0	1	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	1	1	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	1	0	0	1	0	1
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	1	1	0	0
3089:	0	2	0	0	0	0	0	0
3097:	1	0	0	0	0	0	2	0
3105:	0	3	0	1	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	1	0	0	0	0	0	0
3129:	0	0	0	1	0	0	0	0
3137:	0	0	0	1	0	0	1	0
3145:	0	0	1	0	0	0	1	0
3153:	0	1	0	0	0	0	0	0
3161:	1	0	1	0	1	0	0	0
3169:	0	0	1	0	0	1	0	1
3177:	0	0	0	1	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	0	0	0	0	0
3201:	0	0	1	0	0	0	0	0
3209:	1	0	0	0	1	0	0	0
3217:	0	1	1	1	1	0	0	0
3225:	1	0	0	0	0	0	0	0
3233:	0	1	0	0	0	1	0	0
3241:	0	0	0	0	0	0	0	0
3249:	1	0	1	0	0	1	0	0
3257:	1	0	0	0	0	0	1	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	1	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	1	0	0	0	0	1	0	0
3297:	0	0	0	0	0	0	1	0
3305:	0	0	1	0	0	0	0	0
3313:	1	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	2
3329:	0	1	0	1	0	0	0	0
3337:	0	0	0	0	0	0	0	1
3345:	0	0	0	0	1	0	1	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	1
3377:	0	0	1	0	0	0	0	0
3385:	0	0	0	0	0	0	2	0

3393:	0	2	0	0	0	0	0	0

Sample Title: FEEBRIS1D-09.078-079

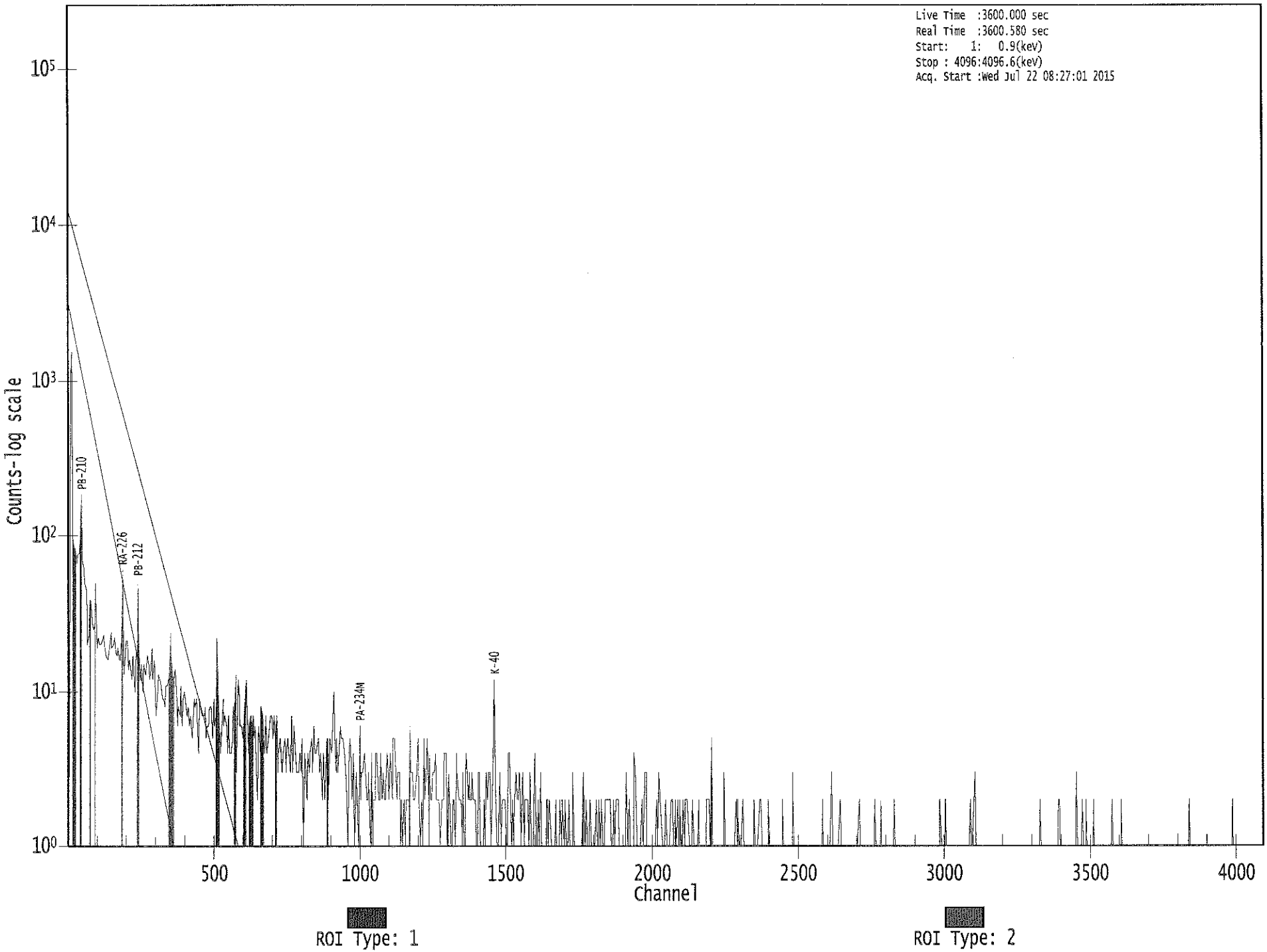
Channel								
3401:	0	0	0	0	0	1	1	1
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	1	1
3425:	1	0	0	0	0	1	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	2	0	3	0	1	0	1
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	1	0	0	0
3473:	2	1	0	0	0	0	0	0
3481:	0	0	0	1	2	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	1	0	0	1	1	1	0	0
3505:	0	0	0	0	0	0	2	1
3513:	0	0	0	0	0	0	0	0
3521:	0	1	0	0	0	1	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	1	0	0	0	0	1	0
3545:	0	0	1	0	1	0	0	0
3553:	0	0	1	1	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	1	0	0	2	0
3577:	0	1	0	0	0	0	0	1
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	2	0	0
3609:	0	0	0	0	0	0	1	0
3617:	0	0	1	1	0	0	0	1
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	1	0	0	0	0
3649:	0	0	0	1	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	1	0	0	0	0	0
3673:	0	0	0	1	0	0	0	0
3681:	0	0	0	0	0	0	1	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	1	0	0
3705:	1	0	0	0	0	0	0	0
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	1	0	0	0	0
3737:	1	0	0	0	0	0	0	0
3745:	1	0	0	1	1	1	0	0
3753:	0	0	0	0	0	0	0	0
3761:	1	0	0	0	0	0	0	1
3769:	0	0	0	0	1	0	0	1
3777:	0	0	0	0	0	0	0	0
3785:	1	0	0	0	1	0	0	0
3793:	0	0	0	1	0	0	0	0
3801:	1	0	0	0	0	1	1	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	1	1	1

3825:	1	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-09.078-079

Channel								
3833:	0	0	0	1	0	0	2	0
3841:	0	0	0	0	0	0	0	1
3849:	0	0	1	0	0	0	0	0
3857:	0	0	1	0	0	0	0	0
3865:	0	0	0	0	1	0	0	0
3873:	0	0	0	0	0	1	1	0
3881:	0	0	0	0	0	0	0	0
3889:	0	1	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	1	0	1	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	1	0	0
3945:	0	0	0	0	0	0	1	0
3953:	0	0	0	0	0	0	1	0
3961:	0	0	0	0	1	0	1	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	1	2	0	0	0	0	0
3993:	0	0	0	0	1	0	0	0
4001:	0	0	0	1	1	1	1	0
4009:	0	1	0	0	0	0	1	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	1
4033:	0	0	1	0	0	0	0	0
4041:	1	0	0	0	1	0	0	0
4049:	0	0	0	0	1	1	0	0
4057:	0	0	0	0	0	1	0	1
4065:	0	0	0	0	0	0	0	0
4073:	0	0	1	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	1	0	0	0	1	1	0

0000024970.CNF



Apex-Gamma

Analysis Report for 1506114-06
FEEBRIS1D-01.007-009

7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-06
Sample Description	: FEEBRIS1D-01.007-009
Sample Type	: SOIL
Sample Size	: 5.826E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:38:02AM
Acquisition Started	: 7/22/2015 8:27:07AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3614.6 seconds
Dead Time	: 0.41 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24971

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 9:27:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.34	46.57	0.0000	0.00
2	63.40	63.63	0.0000	0.00
3	76.11	76.33	0.0000	0.00
4	92.31	92.52	0.0000	0.00
5	186.52	186.68	0.0000	0.00
6	238.72	238.85	0.0000	0.00
7	242.05	242.17	0.0000	0.00
8	270.05	270.16	0.0000	0.00
9	295.39	295.49	0.0000	0.00
10	338.25	338.33	0.0000	0.00
11	352.08	352.15	0.0000	0.00
12	410.32	410.36	0.0000	0.00
13	475.78	475.79	0.0000	0.00
14	576.92	576.88	0.0000	0.00
15	583.65	583.60	0.0000	0.00
16	609.65	609.59	0.0000	0.00
17	769.31	769.17	0.0000	0.00
18	794.68	794.54	0.0000	0.00
19	911.46	911.27	0.0000	0.00
20	933.81	933.60	0.0000	0.00
21	965.06	964.84	0.0000	0.00
22	969.11	968.89	0.0000	0.00
23	993.65	993.42	0.0000	0.00
24	1003.25	1003.01	0.0000	0.00
25	1015.75	1015.51	0.0000	0.00
26	1023.42	1023.17	0.0000	0.00
27	1117.52	1117.23	0.0000	0.00
28	1120.76	1120.48	0.0000	0.00
29	1204.54	1204.22	0.0000	0.00
30	1238.36	1238.03	0.0000	0.00
31	1461.17	1460.75	0.0000	0.00
32	1487.59	1487.16	0.0000	0.00
33	1499.89	1499.45	0.0000	0.00
34	1510.71	1510.27	0.0000	0.00
35	1620.76	1620.28	0.0000	0.00
36	1656.73	1656.23	0.0000	0.00
37	1685.13	1684.63	0.0000	0.00
38	1729.36	1728.85	0.0000	0.00
39	1765.09	1764.56	0.0000	0.00
40	1887.17	1886.60	0.0000	0.00
41	1896.63	1896.05	0.0000	0.00
42	2203.64	2202.97	0.0000	0.00

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	2335.99	2335.29	0.0000	0.00
44	2615.41	2614.63	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:27:49AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.34	43	49	46.57	1.38E+02	74.06	8.93E+02	1.65
	2	63.40	61	66	63.63	1.23E+02	76.53	1.08E+03	1.59
	3	76.11	71	83	76.33	7.06E+02	158.87	2.65E+03	3.45
	4	92.31	89	96	92.52	1.99E+02	99.24	1.46E+03	1.33
	5	186.52	180	192	186.68	2.32E+02	97.65	1.01E+03	2.07
M	6	238.72	233	246	238.85	5.22E+02	61.08	3.24E+02	1.89
m	7	242.05	233	246	242.17	1.45E+02	61.21	3.09E+02	1.89
	8	270.05	268	274	270.16	3.94E+01	45.70	3.59E+02	1.89
	9	295.39	292	298	295.49	2.44E+02	50.80	2.88E+02	2.00
	10	338.25	334	343	338.33	9.75E+01	55.87	3.91E+02	2.21
	11	352.08	347	356	352.15	3.69E+02	63.21	3.60E+02	1.75
	12	410.32	407	413	410.36	4.17E+01	31.93	1.51E+02	3.31
	13	475.78	470	482	475.79	5.31E+01	40.63	1.70E+02	10.71
M	14	576.92	574	593	576.88	2.56E+01	21.77	7.07E+01	3.86
m	15	583.65	574	593	583.60	1.73E+02	34.76	8.69E+01	2.72
	16	609.65	605	615	609.59	2.88E+02	52.69	2.21E+02	2.00
	17	769.31	763	775	769.17	5.72E+01	40.58	1.60E+02	2.33
	18	794.68	791	799	794.54	3.25E+01	23.31	6.50E+01	4.77
	19	911.46	907	916	911.27	1.08E+02	31.35	8.85E+01	2.20
	20	933.81	931	936	933.60	2.60E+01	17.49	3.80E+01	1.17
M	21	965.06	963	974	964.84	1.48E+01	13.27	3.20E+01	2.15
m	22	969.11	963	974	968.89	5.19E+01	24.00	5.60E+01	2.38
	23	993.65	990	996	993.42	1.69E+01	16.70	3.82E+01	3.59
	24	1003.25	997	1011	1003.01	4.55E+01	29.91	7.50E+01	8.09
	25	1015.75	1012	1019	1015.51	1.92E+01	15.49	2.57E+01	1.43
	26	1023.42	1020	1026	1023.17	1.24E+01	13.63	2.53E+01	1.57
M	27	1117.52	1116	1128	1117.23	1.15E+01	8.66	1.99E+01	2.75
m	28	1120.76	1116	1128	1120.48	4.83E+01	24.59	6.68E+01	2.36
	29	1204.54	1200	1209	1204.22	2.31E+01	20.02	4.17E+01	7.47
	30	1238.36	1234	1243	1238.03	2.93E+01	26.08	8.13E+01	3.77
	31	1461.17	1455	1466	1460.75	3.64E+02	41.76	3.64E+01	2.54
	32	1487.59	1483	1491	1487.16	8.13E+00	10.99	1.37E+01	2.82
	33	1499.89	1494	1504	1499.45	1.58E+01	14.87	1.84E+01	5.47
	34	1510.71	1506	1514	1510.27	1.50E+01	7.75	0.00E+00	1.35
	35	1620.76	1618	1622	1620.28	5.17E+00	7.40	7.67E+00	1.25
	36	1656.73	1651	1659	1656.23	9.14E+00	8.02	3.73E+00	1.84
	37	1685.13	1681	1687	1684.63	8.00E+00	5.66	0.00E+00	2.50
	38	1729.36	1725	1731	1728.85	1.30E+01	7.21	0.00E+00	1.47
	39	1765.09	1760	1768	1764.56	3.30E+01	19.13	3.60E+01	1.99
	40	1887.17	1883	1889	1886.60	5.29E+00	6.34	3.43E+00	2.72

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1896.63	1891 -	1900	1896.05	7.00E+00	9.90	1.00E+01	1.18
42	2203.64	2199 -	2206	2202.97	8.32E+00	10.20	1.14E+01	3.29
43	2335.99	2330 -	2337	2335.29	7.00E+00	5.29	0.00E+00	1.16
44	2615.41	2610 -	2618	2614.63	3.50E+01	11.83	0.00E+00	4.86

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:27:49AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.34	43 -	49	1.38E+02	74.06	8.93E+02	5.77E+01
	2	63.40	61 -	66	1.23E+02	76.53	1.08E+03	6.02E+01
	3	76.11	71 -	83	7.06E+02	158.87	2.65E+03	1.23E+02
	4	92.31	89 -	96	1.99E+02	99.24	1.46E+03	7.82E+01
	5	186.52	180 -	192	2.32E+02	97.65	1.01E+03	3.65E+01
M	6	238.72	233 -	246	5.22E+02	61.08	3.24E+02	2.96E+01
m	7	242.05	233 -	246	1.45E+02	61.21	3.09E+02	2.89E+01
	8	270.05	268 -	274	3.94E+01	45.70	3.59E+02	3.61E+01
	9	295.39	292 -	298	2.44E+02	50.80	2.88E+02	3.29E+01
	10	338.25	334 -	343	9.75E+01	55.87	3.91E+02	4.30E+01
	11	352.08	347 -	356	3.69E+02	63.21	3.60E+02	4.13E+01
	12	410.32	407 -	413	4.17E+01	31.93	1.51E+02	2.40E+01
	13	475.78	470 -	482	5.31E+01	40.63	1.70E+02	3.12E+01
M	14	576.92	574 -	593	2.56E+01	21.77	7.07E+01	1.38E+01
m	15	583.65	574 -	593	1.73E+02	34.76	8.69E+01	1.53E+01
	16	609.65	605 -	615	2.88E+02	52.69	2.21E+02	3.31E+01
	17	769.31	763 -	775	5.72E+01	40.58	1.60E+02	3.10E+01
	18	794.68	791 -	799	3.25E+01	23.31	6.50E+01	1.67E+01
	19	911.46	907 -	916	1.08E+02	31.35	8.85E+01	2.84E+01
	20	933.81	931 -	936	2.60E+01	17.49	3.80E+01	1.17E+01
M	21	965.06	963 -	974	1.48E+01	13.27	3.20E+01	9.30E+00
m	22	969.11	963 -	974	5.19E+01	24.00	5.60E+01	1.23E+01
	23	993.65	990 -	996	1.69E+01	16.70	3.82E+01	1.19E+01

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	24	1003.25	997 -	1011	4.55E+01	29.91	7.50E+01	2.19E+01
	25	1015.75	1012 -	1019	1.92E+01	15.49	2.57E+01	1.05E+01
	26	1023.42	1020 -	1026	1.24E+01	13.63	2.53E+01	9.60E+00
M	27	1117.52	1116 -	1128	1.15E+01	8.66	1.99E+01	7.33E+00
m	28	1120.76	1116 -	1128	4.83E+01	24.59	6.68E+01	1.34E+01
	29	1204.54	1200 -	1209	2.31E+01	20.02	4.17E+01	1.44E+01
	30	1238.36	1234 -	1243	2.93E+01	26.08	8.13E+01	1.95E+01
	31	1461.17	1455 -	1466	3.64E+02	41.76	3.64E+01	1.40E+01
	32	1487.59	1483 -	1491	8.13E+00	10.99	1.37E+01	7.72E+00
	33	1499.89	1494 -	1504	1.58E+01	14.87	1.84E+01	1.03E+01
	34	1510.71	1506 -	1514	1.50E+01	7.75	0.00E+00	0.00E+00
	35	1620.76	1618 -	1622	5.17E+00	7.40	7.67E+00	4.80E+00
	36	1656.73	1651 -	1659	9.14E+00	8.02	3.73E+00	4.33E+00
	37	1685.13	1681 -	1687	8.00E+00	5.66	0.00E+00	0.00E+00
	38	1729.36	1725 -	1731	1.30E+01	7.21	0.00E+00	0.00E+00
	39	1765.09	1760 -	1768	3.30E+01	19.13	3.60E+01	1.26E+01
	40	1887.17	1883 -	1889	5.29E+00	6.34	3.43E+00	3.59E+00
	41	1896.63	1891 -	1900	7.00E+00	9.90	1.00E+01	6.88E+00
	42	2203.64	2199 -	2206	8.32E+00	10.20	1.14E+01	6.91E+00
	43	2335.99	2330 -	2337	7.00E+00	5.29	0.00E+00	0.00E+00
	44	2615.41	2610 -	2618	3.50E+01	11.83	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 9:27:49AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	46.34	43 -	49	46.57	1.38E+02	74.06	8.93E+02	PB-210
2	63.40	61 -	66	63.63	1.23E+02	76.53	1.08E+03	TH-234 TH-230
3	76.11	71 -	83	76.33	7.06E+02	158.87	2.65E+03	.....

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	4	92.31	89 -	96	92.52	1.99E+02	99.24	1.46E+03	GA-67
	5	186.52	180 -	192	186.68	2.32E+02	97.65	1.01E+03	RA-226
M	6	238.72	233 -	246	238.85	5.22E+02	61.08	3.24E+02	PB-212
m	7	242.05	233 -	246	242.17	1.45E+02	61.21	3.09E+02	.....
	8	270.05	268 -	274	270.16	3.94E+01	45.70	3.59E+02	.....
	9	295.39	292 -	298	295.49	2.44E+02	50.80	2.88E+02	PB-214
	10	338.25	334 -	343	338.33	9.75E+01	55.87	3.91E+02	AC-228
	11	352.08	347 -	356	352.15	3.69E+02	63.21	3.60E+02	PB-214
	12	410.32	407 -	413	410.36	4.17E+01	31.93	1.51E+02	HO-166M
	13	475.78	470 -	482	475.79	5.31E+01	40.63	1.70E+02	PM-144
M	14	576.92	574 -	593	576.88	2.56E+01	21.77	7.07E+01	.....
m	15	583.65	574 -	593	583.60	1.73E+02	34.76	8.69E+01	TL-208
	16	609.65	605 -	615	609.59	2.88E+02	52.69	2.21E+02	BI-214
	17	769.31	763 -	775	769.17	5.72E+01	40.58	1.60E+02	.....
	18	794.68	791 -	799	794.54	3.25E+01	23.31	6.50E+01	.....
	19	911.46	907 -	916	911.27	1.08E+02	31.35	8.85E+01	AC-228 LU-172
	20	933.81	931 -	936	933.60	2.60E+01	17.49	3.80E+01	.....
M	21	965.06	963 -	974	964.84	1.48E+01	13.27	3.20E+01	.....
m	22	969.11	963 -	974	968.89	5.19E+01	24.00	5.60E+01	AC-228
	23	993.65	990 -	996	993.42	1.69E+01	16.70	3.82E+01	.....
	24	1003.25	997 -	1011	1003.01	4.55E+01	29.91	7.50E+01	.....
	25	1015.75	1012 -	1019	1015.51	1.92E+01	15.49	2.57E+01	.....
	26	1023.42	1020 -	1026	1023.17	1.24E+01	13.63	2.53E+01	.....
M	27	1117.52	1116 -	1128	1117.23	1.15E+01	8.66	1.99E+01	.....
m	28	1120.76	1116 -	1128	1120.48	4.83E+01	24.59	6.68E+01	SC-46 BI-214 TA-182
	29	1204.54	1200 -	1209	1204.22	2.31E+01	20.02	4.17E+01	.....
	30	1238.36	1234 -	1243	1238.03	2.93E+01	26.08	8.13E+01	CO-56
	31	1461.17	1455 -	1466	1460.75	3.64E+02	41.76	3.64E+01	K-40
	32	1487.59	1483 -	1491	1487.16	8.13E+00	10.99	1.37E+01	.....
	33	1499.89	1494 -	1504	1499.45	1.58E+01	14.87	1.84E+01	.....
	34	1510.71	1506 -	1514	1510.27	1.50E+01	7.75	0.00E+00	.....
	35	1620.76	1618 -	1622	1620.28	5.17E+00	7.40	7.67E+00	BI-212
	36	1656.73	1651 -	1659	1656.23	9.14E+00	8.02	3.73E+00	.....
	37	1685.13	1681 -	1687	1684.63	8.00E+00	5.66	0.00E+00	.....
	38	1729.36	1725 -	1731	1728.85	1.30E+01	7.21	0.00E+00	.....
	39	1765.09	1760 -	1768	1764.56	3.30E+01	19.13	3.60E+01	BI-214
	40	1887.17	1883 -	1889	1886.60	5.29E+00	6.34	3.43E+00	.....
	41	1896.63	1891 -	1900	1896.05	7.00E+00	9.90	1.00E+01	.....
	42	2203.64	2199 -	2206	2202.97	8.32E+00	10.20	1.14E+01	BI-214
	43	2335.99	2330 -	2337	2335.29	7.00E+00	5.29	0.00E+00	.....
	44	2615.41	2610 -	2618	2614.63	3.50E+01	11.83	0.00E+00	TL-208

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 9:27:49AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.34	1.38E+02	74.06	1.49E-02	1.58E-03
	2	63.40	1.23E+02	76.53	2.16E-02	1.71E-03
	3	76.11	7.06E+02	158.87	2.38E-02	2.13E-03
	4	92.31	1.99E+02	99.24	2.44E-02	2.42E-03
	5	186.52	2.32E+02	97.65	1.83E-02	1.42E-03
M	6	238.72	5.22E+02	61.08	1.52E-02	1.18E-03
m	7	242.05	1.45E+02	61.21	1.51E-02	1.17E-03
	8	270.05	3.94E+01	45.70	1.38E-02	1.04E-03
	9	295.39	2.44E+02	50.80	1.28E-02	9.74E-04
	10	338.25	9.75E+01	55.87	1.14E-02	9.13E-04
	11	352.08	3.69E+02	63.21	1.11E-02	8.93E-04
	12	410.32	4.17E+01	31.93	9.69E-03	8.19E-04
	13	475.78	5.31E+01	40.63	8.53E-03	7.53E-04
M	14	576.92	2.56E+01	21.77	7.21E-03	6.52E-04
m	15	583.65	1.73E+02	34.76	7.13E-03	6.46E-04
	16	609.65	2.88E+02	52.69	6.87E-03	6.20E-04
	17	769.31	5.72E+01	40.58	5.61E-03	4.80E-04
	18	794.68	3.25E+01	23.31	5.46E-03	4.59E-04
	19	911.46	1.08E+02	31.35	4.85E-03	3.72E-04
	20	933.81	2.60E+01	17.49	4.75E-03	3.68E-04
M	21	965.06	1.48E+01	13.27	4.62E-03	3.62E-04
m	22	969.11	5.19E+01	24.00	4.60E-03	3.61E-04
	23	993.65	1.69E+01	16.70	4.51E-03	3.57E-04
	24	1003.25	4.55E+01	29.91	4.47E-03	3.55E-04
	25	1015.75	1.92E+01	15.49	4.43E-03	3.53E-04
	26	1023.42	1.24E+01	13.63	4.40E-03	3.51E-04
M	27	1117.52	1.15E+01	8.66	4.09E-03	3.34E-04
m	28	1120.76	4.83E+01	24.59	4.08E-03	3.33E-04
	29	1204.54	2.31E+01	20.02	3.84E-03	3.17E-04
	30	1238.36	2.93E+01	26.08	3.75E-03	3.09E-04
	31	1461.17	3.64E+02	41.76	3.29E-03	2.69E-04
	32	1487.59	8.13E+00	10.99	3.25E-03	2.65E-04
	33	1499.89	1.58E+01	14.87	3.23E-03	2.63E-04
	34	1510.71	1.50E+01	7.75	3.21E-03	2.62E-04

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
35	1620.76	5.17E+00	7.40	3.04E-03	2.45E-04
36	1656.73	9.14E+00	8.02	2.99E-03	2.40E-04
37	1685.13	8.00E+00	5.66	2.95E-03	2.36E-04
38	1729.36	1.30E+01	7.21	2.90E-03	2.29E-04
39	1765.09	3.30E+01	19.13	2.86E-03	2.24E-04
40	1887.17	5.29E+00	6.34	2.73E-03	2.13E-04
41	1896.63	7.00E+00	9.90	2.72E-03	2.13E-04
42	2203.64	8.32E+00	10.20	2.46E-03	2.13E-04
43	2335.99	7.00E+00	5.29	2.38E-03	2.13E-04
44	2615.41	3.50E+01	11.83	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 9:27:49AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.34	1.38E+02	74.06	5.08E+01	9.30E+00	8.69E+01	7.46E+01
	2	63.40	1.23E+02	76.53	5.56E+01	4.78E+00	6.71E+01	7.67E+01
	3	76.11	7.06E+02	158.87			7.06E+02	1.59E+02
	4	92.31	1.99E+02	99.24	7.60E+01	2.07E+01	1.23E+02	1.01E+02
	5	186.52	2.32E+02	97.65	3.41E+01	6.16E+00	1.98E+02	9.78E+01
M	6	238.72	5.22E+02	61.08	1.57E+01	4.91E+00	5.06E+02	6.13E+01
m	7	242.05	1.45E+02	61.21			1.45E+02	6.12E+01
	8	270.05	3.94E+01	45.70			3.94E+01	4.57E+01
	9	295.39	2.44E+02	50.80	2.05E+00	6.38E+00	2.42E+02	5.12E+01
	10	338.25	9.75E+01	55.87			9.75E+01	5.59E+01
	11	352.08	3.69E+02	63.21	8.85E+00	4.53E+00	3.60E+02	6.34E+01
	12	410.32	4.17E+01	31.93			4.17E+01	3.19E+01
	13	475.78	5.31E+01	40.63			5.31E+01	4.06E+01
M	14	576.92	2.56E+01	21.77			2.56E+01	2.18E+01
m	15	583.65	1.73E+02	34.76	5.04E+00	3.45E+00	1.68E+02	3.49E+01
	16	609.65	2.88E+02	52.69	8.51E+00	1.93E+00	2.80E+02	5.27E+01
	17	769.31	5.72E+01	40.58			5.72E+01	4.06E+01
	18	794.68	3.25E+01	23.31	8.87E-01	3.22E+00	3.16E+01	2.35E+01
	19	911.46	1.08E+02	31.35	2.74E+00	2.96E+00	1.05E+02	3.15E+01
	20	933.81	2.60E+01	17.49			2.60E+01	1.75E+01

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	21	965.06	1.48E+01	13.27			1.48E+01	1.33E+01
m	22	969.11	5.19E+01	24.00	1.43E+00	2.58E+00	5.05E+01	2.41E+01
	23	993.65	1.69E+01	16.70			1.69E+01	1.67E+01
	24	1003.25	4.55E+01	29.91			4.55E+01	2.99E+01
	25	1015.75	1.92E+01	15.49			1.92E+01	1.55E+01
	26	1023.42	1.24E+01	13.63			1.24E+01	1.36E+01
M	27	1117.52	1.15E+01	8.66			1.15E+01	8.66E+00
m	28	1120.76	4.83E+01	24.59			4.83E+01	2.46E+01
	29	1204.54	2.31E+01	20.02			2.31E+01	2.00E+01
	30	1238.36	2.93E+01	26.08			2.93E+01	2.61E+01
	31	1461.17	3.64E+02	41.76	2.41E+00	1.70E+00	3.61E+02	4.18E+01
	32	1487.59	8.13E+00	10.99			8.13E+00	1.10E+01
	33	1499.89	1.58E+01	14.87			1.58E+01	1.49E+01
	34	1510.71	1.50E+01	7.75			1.50E+01	7.75E+00
	35	1620.76	5.17E+00	7.40			5.17E+00	7.40E+00
	36	1656.73	9.14E+00	8.02			9.14E+00	8.02E+00
	37	1685.13	8.00E+00	5.66			8.00E+00	5.66E+00
	38	1729.36	1.30E+01	7.21			1.30E+01	7.21E+00
	39	1765.09	3.30E+01	19.13			3.30E+01	1.91E+01
	40	1887.17	5.29E+00	6.34			5.29E+00	6.34E+00
	41	1896.63	7.00E+00	9.90			7.00E+00	9.90E+00
	42	2203.64	8.32E+00	10.20			8.32E+00	1.02E+01
	43	2335.99	7.00E+00	5.29			7.00E+00	5.29E+00
	44	2615.41	3.50E+01	11.83	2.98E+00	1.27E+00	3.20E+01	1.19E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 9:27:49AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	46.34	1.38E+02	74.06	5.08E+01	9.30E+00	8.69E+01	7.46E+01
2	63.40	1.23E+02	76.53	5.56E+01	4.78E+00	6.71E+01	7.67E+01
3	76.11	7.06E+02	158.87			7.06E+02	1.59E+02
4	92.31	1.99E+02	99.24	7.60E+01	2.07E+01	1.23E+02	1.01E+02

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	5	186.52	2.32E+02	97.65	3.41E+01	6.16E+00	1.98E+02	9.78E+01
M	6	238.72	5.22E+02	61.08	1.57E+01	4.91E+00	5.06E+02	6.13E+01
m	7	242.05	1.45E+02	61.21			1.45E+02	6.12E+01
	8	270.05	3.94E+01	45.70			3.94E+01	4.57E+01
	9	295.39	2.44E+02	50.80	2.05E+00	6.38E+00	2.42E+02	5.12E+01
	10	338.25	9.75E+01	55.87			9.75E+01	5.59E+01
	11	352.08	3.69E+02	63.21	8.85E+00	4.53E+00	3.60E+02	6.34E+01
	12	410.32	4.17E+01	31.93			4.17E+01	3.19E+01
	13	475.78	5.31E+01	40.63			5.31E+01	4.06E+01
M	14	576.92	2.56E+01	21.77			2.56E+01	2.18E+01
m	15	583.65	1.73E+02	34.76	5.04E+00	3.45E+00	1.68E+02	3.49E+01
	16	609.65	2.88E+02	52.69	8.51E+00	1.93E+00	2.80E+02	5.27E+01
	17	769.31	5.72E+01	40.58			5.72E+01	4.06E+01
	18	794.68	3.25E+01	23.31	8.87E-01	3.22E+00	3.16E+01	2.35E+01
	19	911.46	1.08E+02	31.35	2.74E+00	2.96E+00	1.05E+02	3.15E+01
	20	933.81	2.60E+01	17.49			2.60E+01	1.75E+01
M	21	965.06	1.48E+01	13.27			1.48E+01	1.33E+01
m	22	969.11	5.19E+01	24.00	1.43E+00	2.58E+00	5.05E+01	2.41E+01
	23	993.65	1.69E+01	16.70			1.69E+01	1.67E+01
	24	1003.25	4.55E+01	29.91			4.55E+01	2.99E+01
	25	1015.75	1.92E+01	15.49			1.92E+01	1.55E+01
	26	1023.42	1.24E+01	13.63			1.24E+01	1.36E+01
M	27	1117.52	1.15E+01	8.66			1.15E+01	8.66E+00
m	28	1120.76	4.83E+01	24.59			4.83E+01	2.46E+01
	29	1204.54	2.31E+01	20.02			2.31E+01	2.00E+01
	30	1238.36	2.93E+01	26.08			2.93E+01	2.61E+01
	31	1461.17	3.64E+02	41.76	2.41E+00	1.70E+00	3.61E+02	4.18E+01
	32	1487.59	8.13E+00	10.99			8.13E+00	1.10E+01
	33	1499.89	1.58E+01	14.87			1.58E+01	1.49E+01
	34	1510.71	1.50E+01	7.75			1.50E+01	7.75E+00
	35	1620.76	5.17E+00	7.40			5.17E+00	7.40E+00
	36	1656.73	9.14E+00	8.02			9.14E+00	8.02E+00
	37	1685.13	8.00E+00	5.66			8.00E+00	5.66E+00
	38	1729.36	1.30E+01	7.21			1.30E+01	7.21E+00
	39	1765.09	3.30E+01	19.13			3.30E+01	1.91E+01
	40	1887.17	5.29E+00	6.34			5.29E+00	6.34E+00
	41	1896.63	7.00E+00	9.90			7.00E+00	9.90E+00
	42	2203.64	8.32E+00	10.20			8.32E+00	1.02E+01
	43	2335.99	7.00E+00	5.29			7.00E+00	5.29E+00
	44	2615.41	3.50E+01	11.83	2.98E+00	1.27E+00	3.20E+01	1.19E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.979	1460.81	*	10.67	1.33E+01	1.90E+00
GA-67	0.303	93.31	*	35.70	1.08E+02	4.50E+02
		208.95		2.24		
		300.22		16.00		
TL-208	0.827	583.14	*	30.22	1.00E+00	2.28E-01
		860.37		4.48		
		2614.66	*	35.85	5.14E-01	1.97E-01
PB-210	0.996	46.50	*	4.25	1.77E+00	1.53E+00
PB-212	0.895	238.63	*	44.60	9.61E-01	1.38E-01
		300.09		3.41		
BI-214	0.969	609.31	*	46.30	1.13E+00	2.37E-01
		1120.29	*	15.10	1.01E+00	5.22E-01
		1764.49	*	15.80	9.42E-01	5.51E-01
		2204.22	*	4.98	8.74E-01	1.07E+00
PB-214	0.996	295.21	*	19.19	1.27E+00	2.85E-01
		351.92	*	37.19	1.13E+00	2.19E-01
RA-226	0.985	186.21	*	3.28	4.25E+00	8.07E+00
AC-228	0.988	338.32	*	11.40	9.63E-01	5.57E-01
		911.07	*	27.70	1.01E+00	3.12E-01
		969.11	*	16.60	8.52E-01	4.12E-01
TH-234	0.998	63.29	*	3.80	1.05E+00	1.21E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:27:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.11	1.96053E-01	11.25		
m	7	242.05	4.02704E-02	21.11		
	8	270.05	1.09361E-02	58.04		
	12	410.32	1.15848E-02	38.28	Tol.	HO-166M
	13	475.78	1.47524E-02	38.25	Tol.	PM-144
M	14	576.92	7.11781E-03	42.48	Sum	
	17	769.31	1.58759E-02	35.50	Sum	
	18	794.68	8.78142E-03	37.22		
	20	933.81	7.22222E-03	33.64		
M	21	965.06	4.11208E-03	44.81		
	23	993.65	4.69522E-03	49.39		
	24	1003.25	1.26389E-02	32.87	Sum	
	25	1015.75	5.32552E-03	40.40	Sum	
	26	1023.42	3.43333E-03	55.13		
M	27	1117.52	3.19040E-03	37.70		
	29	1204.54	6.42677E-03	43.28		
	30	1238.36	8.15079E-03	44.43	Tol.	CO-56
	32	1487.59	2.25926E-03	67.55		
	33	1499.89	4.38889E-03	47.04		
	34	1510.71	4.16667E-03	25.82		
	35	1620.76	1.43519E-03	71.61	Tol.	BI-212
	36	1656.73	2.53788E-03	43.87		
	37	1685.13	2.22222E-03	35.36		
	38	1729.36	3.61111E-03	27.74		
	40	1887.17	1.46825E-03	60.01		
	41	1896.63	1.94444E-03	70.71		
	43	2335.99	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.33E+01	1.90E+00

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
GA-67	0.30	93.31	*	35.70	1.08E+02	4.50E+02
		208.95		2.24		
		300.22		16.00		
TL-208	0.82	583.14	*	30.22	1.00E+00	2.28E-01
		860.37		4.48		
		2614.66	*	35.85	5.14E-01	1.97E-01
PB-210	0.99	46.50	*	4.25	1.77E+00	1.53E+00
PB-212	0.89	238.63	*	44.60	9.61E-01	1.38E-01
		300.09		3.41		
BI-214	0.96	609.31	*	46.30	1.13E+00	2.37E-01
		1120.29	*	15.10	1.01E+00	5.22E-01
		1764.49	*	15.80	9.42E-01	5.51E-01
		2204.22	*	4.98	8.74E-01	1.07E+00
PB-214	0.99	295.21	*	19.19	1.27E+00	2.85E-01
		351.92	*	37.19	1.13E+00	2.19E-01
RA-226	0.98	186.21	*	3.28	4.25E+00	8.07E+00
AC-228	0.98	338.32	*	11.40	9.63E-01	5.57E-01
		911.07	*	27.70	1.01E+00	3.12E-01
		969.11	*	16.60	8.52E-01	4.12E-01
TH-234	0.99	63.29	*	3.80	1.05E+00	1.21E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.979	1.33E+01	1.90E+00	
GA-67	0.303	1.08E+02	4.50E+02	
TL-208	0.827	7.24E-01	1.49E-01	
PB-210	0.996	1.77E+00	1.53E+00	
PB-212	0.895	9.61E-01	1.38E-01	
BI-214	0.969	1.08E+00	1.97E-01	
PB-214	0.996	1.18E+00	1.73E-01	

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
RA-226	0.985	4.25E+00	8.07E+00	
AC-228	0.988	9.53E-01	2.27E-01	
TH-234	0.998	1.05E+00	1.21E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:27:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.11	1.96053E-01	11.25		
m	7	242.05	4.02704E-02	21.11		
	8	270.05	1.09361E-02	58.04		
	12	410.32	1.15848E-02	38.28	Tol.	HO-166M
	13	475.78	1.47524E-02	38.25	Tol.	PM-144
M	14	576.92	7.11781E-03	42.48	Sum	
	17	769.31	1.58759E-02	35.50	Sum	
	18	794.68	8.78142E-03	37.22		
	20	933.81	7.22222E-03	33.64		
M	21	965.06	4.11208E-03	44.81		
	23	993.65	4.69522E-03	49.39		
	24	1003.25	1.26389E-02	32.87	Sum	
	25	1015.75	5.32552E-03	40.40	Sum	
	26	1023.42	3.43333E-03	55.13		
M	27	1117.52	3.19040E-03	37.70		
	29	1204.54	6.42677E-03	43.28		
	30	1238.36	8.15079E-03	44.43	Tol.	CO-56
	32	1487.59	2.25926E-03	67.55		
	33	1499.89	4.38889E-03	47.04		
	34	1510.71	4.16667E-03	25.82		
	35	1620.76	1.43519E-03	71.61	Tol.	BI-212
	36	1656.73	2.53788E-03	43.87		
	37	1685.13	2.22222E-03	35.36		
	38	1729.36	3.61111E-03	27.74		
	40	1887.17	1.46825E-03	60.01		
	41	1896.63	1.94444E-03	70.71		
	43	2335.99	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	4.17E-01	9.58E-01	9.58E-01
+	NA-22	1274.54		99.94	1.28E-02	1.04E-01	1.04E-01
+	NA-24	1368.53		99.99	-9.52E+12	1.30E+13	2.50E+13
		2754.09		99.86	-5.89E+11		1.30E+13
+	AL-26	1808.65		99.76	3.45E-03	7.30E-02	7.30E-02
+	K-40	1460.81	*	10.67	1.33E+01	1.15E+00	1.15E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	8.91E-04	6.30E-02	6.30E-02
		78.34		96.00	1.71E-01		8.12E-02
+	SC-46	889.25		99.98	-2.65E-02	9.54E-02	9.54E-02
		1120.51		99.99	2.19E-01		1.93E-01
+	V-48	983.52		99.98	9.05E-02	3.20E-01	3.20E-01
		1312.10		97.50	-9.87E-02		3.27E-01
+	CR-51	320.08		9.83	-1.11E+00	1.32E+00	1.32E+00
+	MN-54	834.83		99.97	-2.55E-02	8.27E-02	8.27E-02
+	CO-56	846.75		99.96	2.79E-02	1.06E-01	1.06E-01
		1037.75		14.03	-2.84E-01		8.21E-01
		1238.25		67.00	2.50E-01		2.59E-01
		1771.40		15.51	8.52E-02		7.40E-01
		2598.48		16.90	-3.44E-02		4.76E-01
+	CO-57	122.06		85.51	7.65E-03	5.78E-02	5.78E-02
		136.48		10.60	-1.91E-01		4.74E-01
+	CO-58	810.76		99.40	2.33E-02	1.19E-01	1.19E-01
+	FE-59	1099.22		56.50	1.38E-01	2.92E-01	2.92E-01
		1291.56		43.20	-1.48E-01		4.06E-01
+	CO-60	1173.22		100.00	1.98E-02	9.63E-02	9.63E-02
		1332.49		100.00	3.68E-02		1.01E-01
+	ZN-65	1115.52		50.75	-1.21E-02	2.22E-01	2.22E-01
+	GA-67	93.31	*	35.70	1.08E+02	1.45E+02	1.45E+02
		208.95		2.24	6.85E+02		1.73E+03
		300.22		16.00	6.06E+01		2.54E+02
+	SE-75	121.11		16.70	-1.39E-01	9.22E-02	3.16E-01
		136.00		59.20	-2.60E-02		9.22E-02
		264.65		59.80	-8.07E-02		1.09E-01
		279.53		25.20	7.02E-02		3.19E-01
		400.65		11.40	-2.26E-01		6.40E-01
+	RB-82	776.52		13.00	-7.19E-02	1.32E+00	1.32E+00
+	RB-83	520.41		46.00	3.55E-02	1.99E-01	1.99E-01
		529.64		30.30	1.02E-01		2.94E-01
		552.65		16.40	2.27E-01		5.93E-01

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	KR-85	513.99	0.43	7.74E+00	2.13E+01	2.13E+01
+	SR-85	513.99	99.27	4.64E-02	1.28E-01	1.28E-01
+	Y-88	898.02	93.40	2.24E-02	7.44E-02	1.10E-01
		1836.01	99.38	-3.97E-02		7.44E-02
+	NB-93M	16.57	9.43	3.37E+01	7.61E+01	7.61E+01
+	NB-94	702.63	100.00	3.18E-02	7.63E-02	7.63E-02
		871.10	100.00	-4.41E-02		7.63E-02
+	NB-95	765.79	99.81	1.15E-01	1.96E-01	1.96E-01
+	NB-95M	235.69	25.00	2.74E+02	1.26E+02	1.26E+02
+	ZR-95	724.18	43.70	-3.42E-02	1.94E-01	2.72E-01
		756.72	55.30	-1.34E-01		1.94E-01
+	MO-99	181.06	6.20	-4.82E+02	1.23E+03	1.56E+03
		739.58	12.80	-1.08E+02		1.23E+03
		778.00	4.50	-9.13E+02		3.07E+03
+	RU-103	497.08	89.00	1.95E-02	1.30E-01	1.30E-01
+	RU-106	621.84	9.80	-2.62E-01	7.20E-01	7.20E-01
+	AG-108M	433.93	89.90	-3.11E-03	7.50E-02	7.50E-02
		614.37	90.40	9.12E-03		1.05E-01
		722.95	90.50	-1.30E-01		8.32E-02
+	CD-109	88.03	3.72	3.38E-01	1.76E+00	1.76E+00
+	AG-110M	657.75	93.14	-2.81E-02	8.17E-02	8.17E-02
		677.61	10.53	-2.20E-01		6.90E-01
		706.67	16.46	-4.28E-01		4.78E-01
		763.93	21.98	2.32E-02		4.67E-01
		884.67	71.63	5.04E-02		1.23E-01
		1384.27	23.94	-1.97E-01		3.73E-01
+	CD-113M	263.70	0.02	-1.69E+02	2.48E+02	2.48E+02
+	SN-113	255.12	1.93	-6.12E-02	1.20E-01	3.70E+00
		391.69	64.90	1.03E-02		1.20E-01
+	TE123M	159.00	84.10	-1.62E-02	6.76E-02	6.76E-02
+	SB-124	602.71	97.87	1.47E-02	1.08E-01	1.08E-01
		645.85	7.26	4.14E-01		1.42E+00
		722.78	11.10	-1.50E+00		9.59E-01
		1691.02	49.00	-6.73E-02		2.00E-01
+	I-125	35.49	6.49	1.63E+00	2.98E+00	2.98E+00
+	SB-125	176.33	6.89	6.58E-02	2.31E-01	7.14E-01
		427.89	29.33	1.65E-02		2.31E-01
		463.38	10.35	4.28E-01		7.60E-01
		600.56	17.80	3.00E-03		4.39E-01
		635.90	11.32	1.51E-01		6.64E-01
+	SB-126	414.70	83.30	-2.79E-02	3.96E-01	3.98E-01
		666.33	99.60	-9.41E-02		4.26E-01
		695.00	99.60	5.19E-03		3.96E-01
		720.50	53.80	4.21E-01		8.05E-01
+	SN-126	87.57	37.00	3.25E-02	1.69E-01	1.69E-01
+	SB-127	473.00	25.00	9.12E+00	5.16E+01	5.75E+01
		685.20	35.70	3.61E+01		5.16E+01
		783.80	14.70	5.13E+01		1.28E+02

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-129	29.78	57.00	2.04E-01	4.39E-01	4.39E-01
		33.60	13.20	-1.27E-01		1.22E+00
		39.58	7.52	3.54E-01		1.38E+00
+	I-131	284.30	6.05	-7.64E+00	1.05E+00	1.36E+01
		364.48	81.20	1.42E-01		1.05E+00
		636.97	7.26	4.04E+00		1.37E+01
		722.89	1.80	-8.74E+01		5.58E+01
+	TE-132	49.72	13.10	4.16E+01	4.15E+01	3.08E+02
		228.16	88.00	1.33E+01		4.15E+01
+	BA-133	81.00	33.00	-8.66E-01	1.46E-01	1.68E-01
		302.84	17.80	2.65E-01		3.86E-01
		356.01	60.00	-7.00E-03		1.46E-01
+	I-133	529.87	86.30	7.72E+08	2.23E+09	2.23E+09
+	CS-134	563.23	8.38	7.05E-01	8.54E-02	9.46E-01
		569.32	15.43	1.33E-01		4.74E-01
		604.70	97.60	1.31E-03		8.54E-02
		795.84	85.40	4.44E-02		1.06E-01
		801.93	8.73	-2.89E-01		8.80E-01
+	CS-135	268.24	16.00	-5.40E-02	3.99E-01	3.99E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	9.92E-01	3.28E-01	3.18E+00
		163.89	4.61	-9.37E-02		4.98E+00
		176.55	13.56	2.93E-01		1.74E+00
		273.65	12.66	4.13E-01		2.60E+00
		340.57	48.50	9.40E-01		8.23E-01
		818.50	99.70	-1.25E-01		3.28E-01
		1048.07	79.60	7.82E-02		5.88E-01
		1235.34	19.70	-1.06E-01		2.87E+00
+	CS-137	661.65	85.12	3.08E-02	9.81E-02	9.81E-02
+	LA-138	788.74	34.00	5.52E-02	1.31E-01	2.29E-01
		1435.80	66.00	2.44E-02		1.31E-01
+	CE-139	165.85	80.35	-2.74E-02	6.64E-02	6.64E-02
+	BA-140	162.64	6.70	9.23E-01	1.32E+00	3.69E+00
		304.84	4.50	-2.51E+00		7.11E+00
		423.70	3.20	2.70E+00		1.11E+01
		437.55	2.00	1.25E+01		1.88E+01
		537.32	25.00	1.15E-01		1.32E+00
+	LA-140	328.77	20.50	-4.63E-01	4.90E-01	1.63E+00
		487.03	45.50	4.25E-01		8.31E-01
		815.85	23.50	-1.08E+00		1.48E+00
		1596.49	95.49	1.79E-01		4.90E-01
+	CE-141	145.44	48.40	-2.33E-02	1.91E-01	1.91E-01
+	CE-143	57.36	11.80	1.54E+06	8.49E+05	2.08E+06
		293.26	42.00	-1.07E+05		8.49E+05
		664.55	5.20	3.85E+06		6.28E+06
+	CE-144	133.54	10.80	-4.12E-02	4.74E-01	4.74E-01
+	PM-144	476.78	42.00	-3.82E-02	7.76E-02	1.62E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	618.01	98.60	-1.78E-02	7.76E-02	8.14E-02
		696.49	99.49	4.63E-03		7.76E-02
+	PM-145	36.85	21.70	-1.81E-01	3.01E-01	5.60E-01
		37.36	39.70	-6.47E-03		3.01E-01
		42.30	15.10	1.96E-01		6.14E-01
		72.40	2.31	-5.54E+00		3.05E+00
+	PM-146	453.90	39.94	-1.39E-01	1.58E-01	1.58E-01
		735.90	14.01	-5.74E-02		5.67E-01
		747.13	13.10	-1.35E-01		5.86E-01
+	ND-147	91.11	28.90	8.44E-01	1.50E+00	1.50E+00
		531.02	13.10	1.16E-01		3.40E+00
+	PM-149	285.90	3.10	1.07E+04	2.56E+04	2.56E+04
+	EU-152	121.78	20.50	2.96E-02	2.24E-01	2.24E-01
		244.69	5.40	3.60E-02		1.34E+00
		344.27	19.13	1.20E-02		3.26E-01
		778.89	9.20	-2.53E-02		8.24E-01
		964.01	10.40	1.52E-01		9.22E-01
		1085.78	7.22	-2.05E-01		1.19E+00
		1112.02	9.60	-1.90E-01		1.02E+00
		1407.95	14.94	-3.22E-02		6.40E-01
+	GD-153	97.43	31.30	1.03E-02	1.69E-01	1.69E-01
		103.18	22.20	-3.79E-02		2.26E-01
+	EU-154	123.07	40.50	2.00E-02	1.13E-01	1.13E-01
		723.30	19.70	-6.02E-01		3.85E-01
		873.19	11.50	1.68E-01		7.52E-01
		996.32	10.30	-1.87E-01		9.00E-01
		1004.76	17.90	-5.34E-03		5.27E-01
		1274.45	35.50	3.55E-02		2.89E-01
+	EU-155	86.50	30.90	6.74E-02	1.98E-01	1.98E-01
		105.30	20.70	-7.49E-02		2.21E-01
+	EU-156	811.77	10.40	1.30E+00	3.31E+00	3.31E+00
		1153.47	7.20	-9.20E-01		5.82E+00
		1230.71	8.90	1.93E-01		4.97E+00
+	HO-166M	184.41	72.60	1.78E-01	9.15E-02	9.15E-02
		280.45	29.60	-5.73E-02		2.18E-01
		410.94	11.10	2.30E-01		6.31E-01
		711.69	54.10	5.58E-02		1.46E-01
+	TM-171	66.72	0.14	1.78E+01	4.47E+01	4.47E+01
+	HF-172	81.75	4.52	-2.07E+00	4.29E-01	1.30E+00
		125.81	11.30	-3.15E-01		4.29E-01
+	LU-172	181.53	20.60	-9.26E+00	3.40E+00	5.45E+00
		810.06	16.63	5.46E+00		1.20E+01
		912.12	15.25	4.18E+01		2.22E+01
		1093.66	62.50	-3.33E-01		3.40E+00
+	LU-173	100.72	5.24	3.63E-01	3.41E-01	9.55E-01
		272.11	21.20	1.84E-01		3.41E-01
+	HF-175	343.40	84.00	3.66E-03	1.07E-01	1.07E-01
+	LU-176	88.34	13.30	3.04E-01	6.50E-02	4.78E-01
		201.83	86.00	-2.31E-03		7.29E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-176	306.78		94.00	3.36E-04	6.50E-02	6.50E-02
+	TA-182	67.75		41.20	2.45E-03	1.73E-01	1.73E-01
		1121.30		34.90	5.63E-01		5.09E-01
		1189.05		16.23	-2.74E-01		8.06E-01
		1221.41		26.98	-3.00E-02		4.74E-01
		1231.02		11.44	-1.49E-01		1.12E+00
+	IR-192	308.46		29.68	-1.44E-01	1.70E-01	2.67E-01
		468.07		48.10	-8.10E-02		1.70E-01
+	HG-203	279.19		77.30	3.51E-02	1.36E-01	1.36E-01
+	BI-207	569.67		97.72	-2.76E-02	6.80E-02	6.80E-02
		1063.62		74.90	-1.69E-02		1.16E-01
+	TL-208	583.14	*	30.22	1.00E+00	1.41E-01	4.98E-01
		860.37		4.48	-4.26E-01		1.89E+00
		2614.66	*	35.85	5.14E-01		1.41E-01
+	BI-210M	262.00		45.00	1.92E-02	1.34E-01	1.34E-01
		300.00		23.00	7.09E-02		2.97E-01
+	PB-210	46.50	*	4.25	1.77E+00	2.48E+00	2.48E+00
+	PB-211	404.84		2.90	1.05E-01	2.23E+00	2.23E+00
		831.96		2.90	-3.49E-01		2.63E+00
+	BI-212	727.17		11.80	1.11E-01	7.67E-01	7.67E-01
		1620.62		2.75	-2.20E-01		3.10E+00
+	PB-212	238.63	*	44.60	9.61E-01	2.47E-01	2.47E-01
		300.09		3.41	4.78E-01		2.00E+00
+	BI-214	609.31	*	46.30	1.13E+00	2.83E-01	2.83E-01
		1120.29	*	15.10	1.01E+00		1.11E+00
		1764.49	*	15.80	9.42E-01		7.96E-01
		2204.22	*	4.98	8.74E-01		1.74E+00
+	PB-214	295.21	*	19.19	1.27E+00	2.70E-01	3.65E-01
		351.92	*	37.19	1.13E+00		2.70E-01
+	RN-219	401.80		6.50	1.34E-01	9.89E-01	9.89E-01
+	RA-223	323.87		3.88	1.33E-01	1.72E+00	1.72E+00
+	RA-224	240.98		3.95	1.30E+01	2.91E+00	2.91E+00
+	RA-225	40.00		31.00	3.42E-01	1.34E+00	1.34E+00
+	RA-226	186.21	*	3.28	4.25E+00	3.38E+00	3.38E+00
+	TH-227	50.10		8.40	1.07E-01	7.96E-01	7.96E-01
		236.00		11.50	1.86E+00		8.56E-01
		256.20		6.30	1.64E-01		9.71E-01
+	AC-228	338.32	*	11.40	9.63E-01	5.75E-01	8.76E-01
		911.07	*	27.70	1.01E+00		5.75E-01
		969.11	*	16.60	8.52E-01		7.80E-01
+	TH-230	48.44		16.90	-5.16E-02	4.56E-01	4.56E-01
		62.85		4.60	1.69E+00		1.49E+00
		67.67		0.37	2.28E-01		1.61E+01
+	PA-231	283.67		1.60	-2.16E+00	2.97E+00	3.85E+00
		302.67		2.30	2.04E+00		2.97E+00
+	TH-231	25.64		14.70	3.14E+00	8.86E-01	3.39E+00
		84.21		6.40	-6.39E-01		8.86E-01
+	PA-233	311.98		38.60	6.94E-02	3.51E-01	3.51E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PA-234	131.20		20.40	2.12E-01	2.58E-01	2.58E-01
		733.99		8.80	-1.57E-01		8.92E-01
		946.00		12.00	1.37E-02		7.43E-01
+	PA-234M	1001.03		0.92	3.71E+00	1.06E+01	1.06E+01
+	TH-234	63.29	*	3.80	1.05E+00	1.98E+00	1.98E+00
+	U-235	143.76		10.50	1.52E-01	4.80E-01	4.80E-01
		163.35		4.70	-1.88E-02		1.00E+00
		205.31		4.70	-1.37E+00		1.32E+00
+	NP-237	86.50		12.60	1.63E-01	4.80E-01	4.80E-01
+	NP-239	106.10		22.70	-3.03E+02	1.40E+03	1.40E+03
		228.18		10.70	1.27E+03		3.96E+03
		277.60		14.10	1.97E+03		3.38E+03
+	AM-241	59.54		35.90	8.59E-02	1.78E-01	1.78E-01
+	AM-243	74.67		66.00	2.91E-01	1.29E-01	1.29E-01
+	CM-243	209.75		3.29	5.90E-01	4.91E-01	1.96E+00
		228.14		10.60	1.85E-01		5.77E-01
		277.60		14.00	2.86E-01		4.91E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	9.58E-01	9.58E-01	4.17E-01	4.50E-01
NA-22	1274.54	99.94	1.04E-01	1.04E-01	1.28E-02	4.73E-02
NA-24	1368.53	99.99	2.50E+13	1.30E+13	-9.52E+12	1.10E+13
	2754.09	99.86	1.30E+13		-5.89E+11	4.11E+12
AL-26	1808.65	99.76	7.30E-02	7.30E-02	3.45E-03	3.03E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	K-40	1460.81	*	10.67	1.15E+00	1.15E+00	1.33E+01	5.24E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.30E-02	6.30E-02	8.91E-04	3.07E-02
		78.34		96.00	8.12E-02		1.71E-01	3.98E-02
	SC-46	889.25		99.98	9.54E-02	9.54E-02	-2.65E-02	4.32E-02
		1120.51		99.99	1.93E-01		2.19E-01	9.09E-02
	V-48	983.52		99.98	3.20E-01	3.20E-01	9.05E-02	1.46E-01
		1312.10		97.50	3.27E-01		-9.87E-02	1.45E-01
	CR-51	320.08		9.83	1.32E+00	1.32E+00	-1.11E+00	6.27E-01
	MN-54	834.83		99.97	8.27E-02	8.27E-02	-2.55E-02	3.78E-02
	CO-56	846.75		99.96	1.06E-01	1.06E-01	2.79E-02	4.84E-02
		1037.75		14.03	8.21E-01		-2.84E-01	3.73E-01
		1238.25		67.00	2.59E-01		2.50E-01	1.20E-01
		1771.40		15.51	7.40E-01		8.52E-02	3.19E-01
		2598.48		16.90	4.76E-01		-3.44E-02	1.78E-01
	CO-57	122.06		85.51	5.78E-02	5.78E-02	7.65E-03	2.79E-02
		136.48		10.60	4.74E-01		-1.91E-01	2.29E-01
	CO-58	810.76		99.40	1.19E-01	1.19E-01	2.33E-02	5.49E-02
	FE-59	1099.22		56.50	2.92E-01	2.92E-01	1.38E-01	1.34E-01
		1291.56		43.20	4.06E-01		-1.48E-01	1.85E-01
	CO-60	1173.22		100.00	9.63E-02	9.63E-02	1.98E-02	4.37E-02
		1332.49		100.00	1.01E-01		3.68E-02	4.53E-02
	ZN-65	1115.52		50.75	2.22E-01	2.22E-01	-1.21E-02	1.02E-01
+	GA-67	93.31	*	35.70	1.45E+02	1.45E+02	1.08E+02	7.15E+01
		208.95		2.24	1.73E+03		6.85E+02	8.35E+02
		300.22		16.00	2.54E+02		6.06E+01	1.22E+02
	SE-75	121.11		16.70	3.16E-01	9.22E-02	-1.39E-01	1.53E-01
		136.00		59.20	9.22E-02		-2.60E-02	4.45E-02
		264.65		59.80	1.09E-01		-8.07E-02	5.21E-02
		279.53		25.20	3.19E-01		7.02E-02	1.53E-01
		400.65		11.40	6.40E-01		-2.26E-01	3.02E-01
	RB-82	776.52		13.00	1.32E+00	1.32E+00	-7.19E-02	6.07E-01
	RB-83	520.41		46.00	1.99E-01	1.99E-01	3.55E-02	9.35E-02
		529.64		30.30	2.94E-01		1.02E-01	1.38E-01
		552.65		16.40	5.93E-01		2.27E-01	2.78E-01
	KR-85	513.99		0.43	2.13E+01	2.13E+01	7.74E+00	1.02E+01
	SR-85	513.99		99.27	1.28E-01	1.28E-01	4.64E-02	6.09E-02
	Y-88	898.02		93.40	1.10E-01	7.44E-02	2.24E-02	5.02E-02
		1836.01		99.38	7.44E-02		-3.97E-02	2.95E-02
	NB-93M	16.57		9.43	7.61E+01	7.61E+01	3.37E+01	3.70E+01
	NB-94	702.63		100.00	7.63E-02	7.63E-02	3.18E-02	3.53E-02
		871.10		100.00	7.63E-02		-4.41E-02	3.47E-02
	NB-95	765.79		99.81	1.96E-01	1.96E-01	1.15E-01	9.21E-02
	NB-95M	235.69		25.00	1.26E+02	1.26E+02	2.74E+02	6.17E+01
	ZR-95	724.18		43.70	2.72E-01	1.94E-01	-3.42E-02	1.26E-01
		756.72		55.30	1.94E-01		-1.34E-01	8.94E-02
	MO-99	181.06		6.20	1.56E+03	1.23E+03	-4.82E+02	7.51E+02
		739.58		12.80	1.23E+03		-1.08E+02	5.71E+02
		778.00		4.50	3.07E+03		-9.13E+02	1.40E+03
	RU-103	497.08		89.00	1.30E-01	1.30E-01	1.95E-02	6.08E-02
	RU-106	621.84		9.80	7.20E-01	7.20E-01	-2.62E-01	3.32E-01
	AG-108M	433.93		89.90	7.50E-02	7.50E-02	-3.11E-03	3.54E-02
		614.37		90.40	1.05E-01		9.12E-03	4.96E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-108M	722.95	90.50	8.32E-02	7.50E-02	-1.30E-01	3.84E-02
CD-109	88.03	3.72	1.76E+00	1.76E+00	3.38E-01	8.58E-01
AG-110M	657.75	93.14	8.17E-02	8.17E-02	-2.81E-02	3.77E-02
	677.61	10.53	6.90E-01		-2.20E-01	3.16E-01
	706.67	16.46	4.78E-01		-4.28E-01	2.20E-01
	763.93	21.98	4.67E-01		2.32E-02	2.18E-01
	884.67	71.63	1.23E-01		5.04E-02	5.64E-02
	1384.27	23.94	3.73E-01		-1.97E-01	1.63E-01
CD-113M	263.70	0.02	2.48E+02	2.48E+02	-1.69E+02	1.19E+02
SN-113	255.12	1.93	3.70E+00	1.20E-01	-6.12E-02	1.78E+00
	391.69	64.90	1.20E-01		1.03E-02	5.67E-02
TE123M	159.00	84.10	6.76E-02	6.76E-02	-1.62E-02	3.26E-02
SB-124	602.71	97.87	1.08E-01	1.08E-01	1.47E-02	5.03E-02
	645.85	7.26	1.42E+00		4.14E-01	6.57E-01
	722.78	11.10	9.59E-01		-1.50E+00	4.42E-01
	1691.02	49.00	2.00E-01		-6.73E-02	8.30E-02
I-125	35.49	6.49	2.98E+00	2.98E+00	1.63E+00	1.44E+00
SB-125	176.33	6.89	7.14E-01	2.31E-01	6.58E-02	3.44E-01
	427.89	29.33	2.31E-01		1.65E-02	1.09E-01
	463.38	10.35	7.60E-01		4.28E-01	3.60E-01
	600.56	17.80	4.39E-01		3.00E-03	2.05E-01
	635.90	11.32	6.64E-01		1.51E-01	3.08E-01
SB-126	414.70	83.30	3.98E-01	3.96E-01	-2.79E-02	1.88E-01
	666.33	99.60	4.26E-01		-9.41E-02	1.98E-01
	695.00	99.60	3.96E-01		5.19E-03	1.83E-01
	720.50	53.80	8.05E-01		4.21E-01	3.73E-01
SN-126	87.57	37.00	1.69E-01	1.69E-01	3.25E-02	8.25E-02
SB-127	473.00	25.00	5.75E+01	5.16E+01	9.12E+00	2.69E+01
	685.20	35.70	5.16E+01		3.61E+01	2.41E+01
	783.80	14.70	1.28E+02		5.13E+01	5.90E+01
I-129	29.78	57.00	4.39E-01	4.39E-01	2.04E-01	2.13E-01
	33.60	13.20	1.22E+00		-1.27E-01	5.93E-01
	39.58	7.52	1.38E+00		3.54E-01	6.70E-01
I-131	284.30	6.05	1.36E+01	1.05E+00	-7.64E+00	6.52E+00
	364.48	81.20	1.05E+00		1.42E-01	4.99E-01
	636.97	7.26	1.37E+01		4.04E+00	6.35E+00
	722.89	1.80	5.58E+01		-8.74E+01	2.57E+01
TE-132	49.72	13.10	3.08E+02	4.15E+01	4.16E+01	1.49E+02
	228.16	88.00	4.15E+01		1.33E+01	2.00E+01
BA-133	81.00	33.00	1.68E-01	1.46E-01	-8.66E-01	8.17E-02
	302.84	17.80	3.86E-01		2.65E-01	1.85E-01
	356.01	60.00	1.46E-01		-7.00E-03	7.03E-02
I-133	529.87	86.30	2.23E+09	2.23E+09	7.72E+08	1.04E+09
CS-134	563.23	8.38	9.46E-01	8.54E-02	7.05E-01	4.44E-01
	569.32	15.43	4.74E-01		1.33E-01	2.21E-01
	604.70	97.60	8.54E-02		1.31E-03	4.01E-02
	795.84	85.40	1.06E-01		4.44E-02	4.91E-02
	801.93	8.73	8.80E-01		-2.89E-01	4.02E-01
CS-135	268.24	16.00	3.99E-01	3.99E-01	-5.40E-02	1.92E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	3.18E+00	3.28E-01	9.92E-01	1.53E+00

Analysis Report for 1506114-06

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	163.89	4.61	4.98E+00	3.28E-01	-9.37E-02	2.40E+00
	176.55	13.56	1.74E+00		2.93E-01	8.37E-01
	273.65	12.66	2.60E+00		4.13E-01	1.25E+00
	340.57	48.50	8.23E-01		9.40E-01	3.96E-01
	818.50	99.70	3.28E-01		-1.25E-01	1.48E-01
	1048.07	79.60	5.88E-01		7.82E-02	2.69E-01
	1235.34	19.70	2.87E+00		-1.06E-01	1.32E+00
CS-137	661.65	85.12	9.81E-02	9.81E-02	3.08E-02	4.58E-02
LA-138	788.74	34.00	2.29E-01	1.31E-01	5.52E-02	1.05E-01
	1435.80	66.00	1.31E-01		2.44E-02	5.78E-02
CE-139	165.85	80.35	6.64E-02	6.64E-02	-2.74E-02	3.19E-02
BA-140	162.64	6.70	3.69E+00	1.32E+00	9.23E-01	1.78E+00
	304.84	4.50	7.11E+00		-2.51E+00	3.40E+00
	423.70	3.20	1.11E+01		2.70E+00	5.24E+00
	437.55	2.00	1.88E+01		1.25E+01	8.94E+00
	537.32	25.00	1.32E+00		1.15E-01	6.12E-01
LA-140	328.77	20.50	1.63E+00	4.90E-01	-4.63E-01	7.77E-01
	487.03	45.50	8.31E-01		4.25E-01	3.92E-01
	815.85	23.50	1.48E+00		-1.08E+00	6.68E-01
	1596.49	95.49	4.90E-01		1.79E-01	2.15E-01
CE-141	145.44	48.40	1.91E-01	1.91E-01	-2.33E-02	9.24E-02
CE-143	57.36	11.80	2.08E+06	8.49E+05	1.54E+06	1.01E+06
	293.26	42.00	8.49E+05		-1.07E+05	4.12E+05
	664.55	5.20	6.28E+06		3.85E+06	2.94E+06
CE-144	133.54	10.80	4.74E-01	4.74E-01	-4.12E-02	2.29E-01
PM-144	476.78	42.00	1.62E-01	7.76E-02	-3.82E-02	7.59E-02
	618.01	98.60	8.14E-02		-1.78E-02	3.80E-02
	696.49	99.49	7.76E-02		4.63E-03	3.58E-02
PM-145	36.85	21.70	5.60E-01	3.01E-01	-1.81E-01	2.71E-01
	37.36	39.70	3.01E-01		-6.47E-03	1.46E-01
	42.30	15.10	6.14E-01		1.96E-01	2.98E-01
	72.40	2.31	3.05E+00		-5.54E+00	1.49E+00
PM-146	453.90	39.94	1.58E-01	1.58E-01	-1.39E-01	7.39E-02
	735.90	14.01	5.67E-01		-5.74E-02	2.62E-01
	747.13	13.10	5.86E-01		-1.35E-01	2.70E-01
ND-147	91.11	28.90	1.50E+00	1.50E+00	8.44E-01	7.32E-01
	531.02	13.10	3.40E+00		1.16E-01	1.59E+00
PM-149	285.90	3.10	2.56E+04	2.56E+04	1.07E+04	1.23E+04
EU-152	121.78	20.50	2.24E-01	2.24E-01	2.96E-02	1.08E-01
	244.69	5.40	1.34E+00		3.60E-02	6.47E-01
	344.27	19.13	3.26E-01		1.20E-02	1.55E-01
	778.89	9.20	8.24E-01		-2.53E-02	3.77E-01
	964.01	10.40	9.22E-01		1.52E-01	4.24E-01
	1085.78	7.22	1.19E+00		-2.05E-01	5.37E-01
	1112.02	9.60	1.02E+00		-1.90E-01	4.65E-01
	1407.95	14.94	6.40E-01		-3.22E-02	2.85E-01
GD-153	97.43	31.30	1.69E-01	1.69E-01	1.03E-02	8.18E-02
	103.18	22.20	2.26E-01		-3.79E-02	1.10E-01
EU-154	123.07	40.50	1.13E-01	1.13E-01	2.00E-02	5.49E-02
	723.30	19.70	3.85E-01		-6.02E-01	1.77E-01
	873.19	11.50	7.52E-01		1.68E-01	3.46E-01
	996.32	10.30	9.00E-01		-1.87E-01	4.12E-01
	1004.76	17.90	5.27E-01		-5.34E-03	2.42E-01

Analysis Report for 1506114-06

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	2.89E-01	1.13E-01	3.55E-02	1.31E-01
	EU-155	86.50		30.90	1.98E-01	1.98E-01	6.74E-02	9.66E-02
		105.30		20.70	2.21E-01		-7.49E-02	1.07E-01
	EU-156	811.77		10.40	3.31E+00	3.31E+00	1.30E+00	1.53E+00
		1153.47		7.20	5.82E+00		-9.20E-01	2.67E+00
		1230.71		8.90	4.97E+00		1.93E-01	2.28E+00
	HO-166M	184.41		72.60	9.15E-02	9.15E-02	1.78E-01	4.44E-02
		280.45		29.60	2.18E-01		-5.73E-02	1.05E-01
		410.94		11.10	6.31E-01		2.30E-01	2.99E-01
		711.69		54.10	1.46E-01		5.58E-02	6.78E-02
	TM-171	66.72		0.14	4.47E+01	4.47E+01	1.78E+01	2.18E+01
	HF-172	81.75		4.52	1.30E+00	4.29E-01	-2.07E+00	6.33E-01
		125.81		11.30	4.29E-01		-3.15E-01	2.07E-01
	LU-172	181.53		20.60	5.45E+00	3.40E+00	-9.26E+00	2.63E+00
		810.06		16.63	1.20E+01		5.46E+00	5.58E+00
		912.12		15.25	2.22E+01		4.18E+01	1.06E+01
		1093.66		62.50	3.40E+00		-3.33E-01	1.55E+00
	LU-173	100.72		5.24	9.55E-01	3.41E-01	3.63E-01	4.63E-01
		272.11		21.20	3.41E-01		1.84E-01	1.64E-01
	HF-175	343.40		84.00	1.07E-01	1.07E-01	3.66E-03	5.09E-02
	LU-176	88.34		13.30	4.78E-01	6.50E-02	3.04E-01	2.34E-01
		201.83		86.00	7.29E-02		-2.31E-03	3.53E-02
		306.78		94.00	6.50E-02		3.36E-04	3.10E-02
	TA-182	67.75		41.20	1.73E-01	1.73E-01	2.45E-03	8.43E-02
		1121.30		34.90	5.09E-01		5.63E-01	2.40E-01
		1189.05		16.23	8.06E-01		-2.74E-01	3.70E-01
		1221.41		26.98	4.74E-01		-3.00E-02	2.16E-01
		1231.02		11.44	1.12E+00		-1.49E-01	5.14E-01
	IR-192	308.46		29.68	2.67E-01	1.70E-01	-1.44E-01	1.27E-01
		468.07		48.10	1.70E-01		-8.10E-02	7.93E-02
	HG-203	279.19		77.30	1.36E-01	1.36E-01	3.51E-02	6.51E-02
	BI-207	569.67		97.72	6.80E-02	6.80E-02	-2.76E-02	3.16E-02
		1063.62		74.90	1.16E-01		-1.69E-02	5.24E-02
+	TL-208	583.14	*	30.22	4.98E-01	1.41E-01	1.00E+00	2.41E-01
		860.37		4.48	1.89E+00		-4.26E-01	8.71E-01
		2614.66	*	35.85	1.41E-01		5.14E-01	4.86E-02
	BI-210M	262.00		45.00	1.34E-01	1.34E-01	1.92E-02	6.44E-02
		300.00		23.00	2.97E-01		7.09E-02	1.42E-01
+	PB-210	46.50	*	4.25	2.48E+00	2.48E+00	1.77E+00	1.21E+00
	PB-211	404.84		2.90	2.23E+00	2.23E+00	1.05E-01	1.05E+00
		831.96		2.90	2.63E+00		-3.49E-01	1.20E+00
	BI-212	727.17		11.80	7.67E-01	7.67E-01	1.11E-01	3.58E-01
		1620.62		2.75	3.10E+00		-2.20E-01	1.34E+00
+	PB-212	238.63	*	44.60	2.47E-01	2.47E-01	9.61E-01	1.21E-01
		300.09		3.41	2.00E+00		4.78E-01	9.61E-01
+	BI-214	609.31	*	46.30	2.83E-01	2.83E-01	1.13E+00	1.36E-01
		1120.29	*	15.10	1.11E+00		1.01E+00	5.27E-01
		1764.49	*	15.80	7.96E-01		9.42E-01	3.59E-01
		2204.22	*	4.98	1.74E+00		8.74E-01	7.27E-01
+	PB-214	295.21	*	19.19	3.65E-01	2.70E-01	1.27E+00	1.75E-01
		351.92	*	37.19	2.70E-01		1.13E+00	1.31E-01
	RN-219	401.80		6.50	9.89E-01	9.89E-01	1.34E-01	4.67E-01
	RA-223	323.87		3.88	1.72E+00	1.72E+00	1.33E-01	8.21E-01

Analysis Report for 1506114-06

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RA-224	240.98		3.95	2.91E+00	2.91E+00	1.30E+01	1.43E+00
	RA-225	40.00		31.00	1.34E+00	1.34E+00	3.42E-01	6.49E-01
+	RA-226	186.21	*	3.28	3.38E+00	3.38E+00	4.25E+00	1.66E+00
	TH-227	50.10		8.40	7.96E-01	7.96E-01	1.07E-01	3.86E-01
		236.00		11.50	8.56E-01		1.86E+00	4.18E-01
		256.20		6.30	9.71E-01		1.64E-01	4.66E-01
+	AC-228	338.32	*	11.40	8.76E-01	5.75E-01	9.63E-01	4.25E-01
		911.07	*	27.70	5.75E-01		1.01E+00	2.74E-01
		969.11	*	16.60	7.80E-01		8.52E-01	3.67E-01
	TH-230	48.44		16.90	4.56E-01	4.56E-01	-5.16E-02	2.22E-01
		62.85		4.60	1.49E+00		1.69E+00	7.28E-01
		67.67		0.37	1.61E+01		2.28E-01	7.83E+00
	PA-231	283.67		1.60	3.85E+00	2.97E+00	-2.16E+00	1.84E+00
		302.67		2.30	2.97E+00		2.04E+00	1.42E+00
	TH-231	25.64		14.70	3.39E+00	8.86E-01	3.14E+00	1.65E+00
		84.21		6.40	8.86E-01		-6.39E-01	4.32E-01
	PA-233	311.98		38.60	3.51E-01	3.51E-01	6.94E-02	1.67E-01
	PA-234	131.20		20.40	2.58E-01	2.58E-01	2.12E-01	1.25E-01
		733.99		8.80	8.92E-01		-1.57E-01	4.12E-01
		946.00		12.00	7.43E-01		1.37E-02	3.40E-01
	PA-234M	1001.03		0.92	1.06E+01	1.06E+01	3.71E+00	4.88E+00
+	TH-234	63.29	*	3.80	1.98E+00	1.98E+00	1.05E+00	9.67E-01
	U-235	143.76		10.50	4.80E-01	4.80E-01	1.52E-01	2.32E-01
		163.35		4.70	1.00E+00		-1.88E-02	4.82E-01
		205.31		4.70	1.32E+00		-1.37E+00	6.38E-01
	NP-237	86.50		12.60	4.80E-01	4.80E-01	1.63E-01	2.34E-01
	NP-239	106.10		22.70	1.40E+03	1.40E+03	-3.03E+02	6.77E+02
		228.18		10.70	3.96E+03		1.27E+03	1.91E+03
		277.60		14.10	3.38E+03		1.97E+03	1.63E+03
	AM-241	59.54		35.90	1.78E-01	1.78E-01	8.59E-02	8.69E-02
	AM-243	74.67		66.00	1.29E-01	1.29E-01	2.91E-01	6.32E-02
	CM-243	209.75		3.29	1.96E+00	4.91E-01	5.90E-01	9.50E-01
		228.14		10.60	5.77E-01		1.85E-01	2.78E-01
		277.60		14.00	4.91E-01		2.86E-01	2.36E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1506114-06

FEEBRIS1D-01.007-009

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-01.007-009

Elapsed Live time: 3600
Elapsed Real Time: 3615

Channel								
1:	0	0	0	0	0	0	0	0
9:	13	159	168	133	93	78	76	88
17:	78	76	71	64	74	64	63	91
25:	90	83	73	81	67	69	72	73
33:	58	71	56	81	68	59	57	69
41:	74	78	59	74	70	110	146	72
49:	53	67	63	76	71	76	61	75
57:	74	85	103	93	79	96	131	170
65:	99	86	99	107	96	87	103	109
73:	112	123	270	203	370	275	97	92
81:	99	95	84	131	112	80	141	160
89:	83	153	103	128	202	105	82	74
97:	66	66	76	82	70	63	64	58
105:	68	70	50	68	69	68	72	56
113:	70	68	66	44	67	55	46	65
121:	49	64	49	62	62	56	51	67
129:	87	77	75	56	67	46	67	54
137:	52	45	53	56	70	67	58	62
145:	66	50	57	44	55	55	60	48
153:	43	51	60	47	38	44	58	44
161:	57	50	51	47	37	41	41	44
169:	43	49	50	38	43	42	39	50
177:	42	42	44	41	39	40	57	47
185:	60	118	110	41	46	50	49	38
193:	33	45	62	46	48	53	45	49
201:	45	44	50	39	33	52	27	46
209:	54	63	31	39	45	40	36	40
217:	43	40	35	37	46	36	30	37
225:	29	35	39	27	32	43	34	27
233:	30	26	40	45	38	112	316	113
241:	68	100	64	35	26	23	27	25
249:	25	25	19	24	21	25	26	27
257:	34	33	33	31	32	20	18	25
265:	28	21	19	19	36	46	32	36
273:	23	27	34	28	39	37	28	33
281:	22	21	31	19	33	22	22	24
289:	33	26	20	31	27	27	131	122
297:	40	10	23	41	36	15	26	35
305:	15	20	23	22	17	14	26	16
313:	29	18	29	13	21	16	22	21
321:	13	22	20	33	27	16	28	23
329:	22	20	14	26	23	15	23	26
337:	25	61	56	35	16	16	20	20
345:	16	20	15	21	15	26	59	219
353:	136	19	18	21	16	15	10	16
361:	10	14	18	17	20	15	17	17

369:	17	19	19	15	20	23	19	12

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Channel								
377:	16	15	11	18	11	16	14	20
385:	17	18	22	9	17	19	13	5
393:	16	17	20	12	16	9	12	16
401:	14	11	17	12	18	15	13	14
409:	22	22	24	16	6	11	13	14
417:	15	12	14	17	15	12	18	17
425:	15	15	15	10	14	14	12	12
433:	8	12	22	16	14	13	15	18
441:	17	14	11	16	10	12	11	11
449:	20	18	7	13	16	7	12	11
457:	9	14	14	13	17	12	31	18
465:	12	10	14	7	9	3	14	12
473:	15	7	8	15	12	10	9	12
481:	15	6	8	13	12	11	18	14
489:	11	16	13	12	9	10	15	7
497:	14	8	7	15	10	9	14	12
505:	10	11	8	9	13	29	51	35
513:	12	10	7	9	12	14	16	11
521:	6	12	8	13	10	7	13	11
529:	10	10	11	5	12	6	10	7
537:	9	10	8	9	8	7	15	8
545:	6	10	11	7	11	15	15	10
553:	13	7	12	8	9	9	8	10
561:	9	9	16	13	7	15	7	3
569:	9	9	18	4	6	6	13	7
577:	22	13	8	10	20	22	62	65
585:	17	10	8	11	9	11	12	10
593:	7	3	10	14	11	9	11	11
601:	11	12	9	6	8	8	10	24
609:	128	139	27	10	15	15	15	10
617:	12	7	6	6	8	9	4	5
625:	10	8	8	15	8	8	5	10
633:	8	8	9	10	9	5	8	9
641:	4	6	8	7	8	10	8	7
649:	6	6	8	7	4	9	5	4
657:	10	7	4	7	11	16	5	12
665:	14	5	10	11	4	7	8	5
673:	10	6	10	7	9	2	4	5
681:	4	9	5	9	10	8	14	8
689:	8	3	8	8	9	10	2	12
697:	6	1	7	8	3	10	11	5
705:	8	6	3	9	6	8	11	11
713:	4	8	6	3	8	10	9	7
721:	3	6	12	6	5	8	22	15
729:	8	5	10	8	6	6	9	5
737:	6	9	9	7	6	11	9	8
745:	6	9	6	5	6	5	4	8
753:	13	7	7	4	6	8	8	6
761:	9	10	8	10	7	10	15	23
769:	18	8	9	8	9	8	4	4
777:	7	4	6	5	6	9	6	6
785:	4	14	6	7	3	3	2	8
793:	8	10	10	11	5	7	4	5

801:	7	8	6	5	3	10	7	5

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Channel								
809:	8	7	8	12	8	5	4	6
817:	4	1	2	8	4	6	4	6
825:	6	7	5	5	5	7	5	6
833:	4	3	7	4	9	5	9	6
841:	9	7	4	5	4	11	5	4
849:	8	4	6	2	4	3	11	7
857:	4	4	6	10	11	4	5	8
865:	4	6	5	3	5	3	7	4
873:	6	6	7	11	10	3	4	5
881:	5	5	8	5	9	2	4	2
889:	4	7	7	5	3	5	5	4
897:	4	8	5	5	9	3	8	7
905:	9	6	4	10	8	22	38	47
913:	8	6	7	2	3	7	6	8
921:	4	7	4	3	1	1	3	8
929:	8	3	7	5	7	20	4	2
937:	2	5	6	2	6	3	6	5
945:	1	6	8	6	9	4	10	7
953:	2	5	7	3	1	4	1	5
961:	8	6	2	7	14	5	4	23
969:	20	21	8	6	5	1	7	4
977:	5	3	1	6	7	7	5	4
985:	2	5	6	4	2	4	2	6
993:	8	6	7	3	2	7	7	13
1001:	4	5	5	4	5	7	8	7
1009:	3	4	2	3	3	3	10	5
1017:	5	2	1	1	1	5	9	3
1025:	5	1	4	2	6	4	4	2
1033:	9	2	4	6	5	3	5	5
1041:	6	8	6	3	5	11	5	1
1049:	7	7	4	7	4	2	5	3
1057:	2	6	3	4	5	2	5	1
1065:	9	5	5	6	2	8	5	6
1073:	9	6	3	7	9	4	6	7
1081:	7	1	3	6	3	4	4	3
1089:	6	5	6	3	5	3	6	8
1097:	8	5	5	6	3	8	4	3
1105:	7	7	5	5	6	6	3	3
1113:	7	6	6	4	10	6	11	28
1121:	24	8	6	7	5	4	4	5
1129:	4	2	6	7	4	5	8	4
1137:	8	7	7	7	3	5	3	7
1145:	4	8	4	8	5	3	4	8
1153:	3	7	7	10	5	9	3	7
1161:	3	7	3	6	5	7	4	3
1169:	5	3	5	3	7	7	4	3
1177:	5	2	8	7	4	4	5	6
1185:	8	7	5	6	8	6	6	4
1193:	6	10	5	4	6	5	2	4
1201:	7	4	9	1	5	3	5	6
1209:	0	3	5	10	9	5	4	8
1217:	4	5	7	5	3	9	3	6
1225:	5	6	8	5	12	3	4	7

1233:	3	4	8	1	13	9	12	12

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Channel								
1241:	5	2	4	5	0	6	1	2
1249:	6	3	0	11	1	3	8	4
1257:	1	4	3	4	6	6	4	5
1265:	3	0	4	3	1	4	3	2
1273:	6	6	2	3	4	2	4	4
1281:	5	2	0	3	7	7	4	6
1289:	4	3	2	3	5	4	6	3
1297:	5	4	7	3	2	2	3	2
1305:	3	2	3	3	3	1	5	3
1313:	3	1	1	1	4	3	1	2
1321:	3	2	5	4	4	1	3	4
1329:	4	3	2	5	4	2	2	2
1337:	1	3	1	5	0	3	6	3
1345:	3	5	4	0	5	3	3	4
1353:	1	7	3	4	2	6	1	7
1361:	3	2	6	1	2	2	2	3
1369:	1	3	2	2	2	2	2	4
1377:	3	5	2	4	2	1	2	4
1385:	0	2	1	1	3	3	1	2
1393:	0	1	0	0	0	2	3	2
1401:	2	2	2	3	0	0	3	4
1409:	1	6	3	3	5	2	0	3
1417:	2	2	2	1	3	3	3	1
1425:	2	2	1	0	3	2	3	2
1433:	4	3	2	0	0	1	3	1
1441:	1	2	1	6	2	1	2	1
1449:	1	5	3	2	3	0	2	1
1457:	4	7	29	103	139	77	13	2
1465:	2	3	1	2	2	1	2	1
1473:	0	3	5	1	3	2	3	1
1481:	0	1	0	1	1	3	2	5
1489:	2	1	0	2	3	1	3	2
1497:	4	4	0	2	5	3	1	0
1505:	0	0	2	0	2	6	1	1
1513:	3	0	0	2	2	1	0	1
1521:	0	0	0	1	2	1	0	2
1529:	1	0	0	1	1	3	1	0
1537:	0	2	3	1	1	0	3	0
1545:	1	0	3	4	2	0	4	1
1553:	0	3	0	1	2	0	0	0
1561:	0	1	0	2	0	0	1	3
1569:	2	1	1	1	2	1	3	1
1577:	0	1	1	1	1	0	0	3
1585:	1	1	4	4	1	0	4	5
1593:	2	0	2	2	2	3	1	0
1601:	0	1	1	0	2	0	2	1
1609:	2	1	1	1	1	3	1	2
1617:	1	0	0	6	3	0	2	0
1625:	1	2	2	0	2	2	1	0
1633:	2	1	0	0	0	1	0	1
1641:	0	1	2	0	2	0	1	0
1649:	0	0	0	1	1	0	1	1
1657:	3	4	0	1	2	4	1	0

1665:	0	4	1	2	2	0	2	0

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Channel								
1673:	0	2	4	1	1	0	2	0
1681:	0	1	0	2	3	2	0	0
1689:	1	2	1	0	2	1	1	1
1697:	1	3	1	0	1	2	0	1
1705:	1	0	1	0	1	0	1	1
1713:	1	0	0	0	0	1	0	0
1721:	2	0	1	0	0	1	2	1
1729:	3	6	0	0	1	1	2	0
1737:	1	0	0	0	1	2	0	1
1745:	0	1	1	1	0	1	0	0
1753:	1	1	0	0	1	0	2	2
1761:	0	0	3	20	19	5	1	1
1769:	3	1	2	2	1	0	2	0
1777:	1	1	1	0	2	0	0	0
1785:	0	0	1	1	0	0	0	1
1793:	1	1	0	2	0	0	1	1
1801:	1	0	1	1	0	0	0	3
1809:	0	0	2	2	0	2	1	3
1817:	1	0	0	1	1	1	3	1
1825:	0	1	1	2	2	0	0	0
1833:	1	1	2	1	0	0	0	1
1841:	2	1	2	3	3	1	1	4
1849:	1	2	0	1	0	0	2	1
1857:	0	2	0	0	1	0	0	0
1865:	2	0	0	2	1	2	1	1
1873:	1	1	0	0	2	0	0	1
1881:	0	1	0	1	0	3	1	2
1889:	0	0	1	2	0	0	0	2
1897:	5	0	2	0	1	1	0	1
1905:	2	1	1	2	0	0	1	1
1913:	1	1	1	3	2	0	1	0
1921:	2	1	0	1	0	3	0	1
1929:	2	1	2	2	2	0	1	0
1937:	1	2	0	0	1	1	0	1
1945:	1	0	1	1	1	1	1	0
1953:	1	1	0	1	1	3	0	0
1961:	1	1	0	2	1	1	0	0
1969:	1	2	1	0	0	0	1	0
1977:	0	1	2	1	1	0	2	0
1985:	0	2	1	0	0	0	0	1
1993:	0	1	0	1	1	1	1	0
2001:	1	3	0	0	1	1	1	0
2009:	3	0	0	1	0	0	1	0
2017:	0	2	0	0	0	0	0	0
2025:	1	0	1	1	0	0	1	2
2033:	0	0	1	1	1	0	1	1
2041:	3	3	1	1	0	2	0	1
2049:	0	1	0	0	0	1	0	0
2057:	0	0	1	0	2	0	2	1
2065:	0	1	0	0	1	0	2	1
2073:	0	2	1	1	0	0	0	0
2081:	0	0	0	0	0	2	0	0
2089:	1	0	0	0	0	0	2	2

2097:	0	1	1	1	2	0	2	3

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Channel								
2105:	1	2	1	2	0	0	1	0
2113:	0	0	1	1	0	0	1	1
2121:	0	0	0	0	0	0	0	1
2129:	0	0	0	2	2	0	0	0
2137:	0	0	1	1	1	2	3	0
2145:	0	1	1	1	0	0	1	0
2153:	0	2	0	0	1	0	0	1
2161:	0	1	2	0	1	3	1	0
2169:	1	1	0	1	2	0	1	1
2177:	0	2	0	1	1	0	0	1
2185:	0	0	1	0	1	2	0	0
2193:	2	0	1	1	0	0	0	1
2201:	0	4	2	4	3	0	3	0
2209:	0	3	0	0	0	1	0	0
2217:	1	0	1	0	0	1	0	1
2225:	0	1	1	0	0	0	0	1
2233:	0	0	0	1	0	2	0	0
2241:	1	2	0	0	1	1	1	1
2249:	0	0	0	0	0	0	0	0
2257:	1	0	1	3	1	2	0	1
2265:	0	0	0	0	0	1	1	2
2273:	1	1	0	1	0	2	0	0
2281:	0	0	0	1	2	0	1	0
2289:	1	0	0	0	0	0	1	0
2297:	0	2	1	0	0	1	0	0
2305:	0	1	0	0	0	1	1	1
2313:	0	0	0	0	0	0	1	0
2321:	0	1	0	1	0	1	0	1
2329:	0	0	0	0	0	2	1	4
2337:	0	0	0	1	0	0	0	1
2345:	2	1	2	1	0	2	1	1
2353:	1	0	1	1	0	0	3	1
2361:	0	0	3	0	0	1	1	0
2369:	0	1	0	1	0	0	1	0
2377:	1	0	0	0	0	1	0	0
2385:	0	0	2	2	0	0	1	3
2393:	0	1	0	2	0	0	0	0
2401:	3	1	0	2	0	0	0	1
2409:	0	2	0	2	1	0	3	0
2417:	0	0	0	0	0	1	2	0
2425:	1	0	1	1	1	0	0	0
2433:	2	2	0	0	0	0	1	2
2441:	0	0	0	0	1	0	1	1
2449:	0	0	0	0	0	0	0	0
2457:	1	0	0	0	0	2	0	0
2465:	1	0	1	0	0	0	0	0
2473:	0	0	1	1	2	0	0	1
2481:	1	1	2	1	0	0	0	0
2489:	0	0	1	0	0	0	0	0
2497:	0	0	1	3	1	0	1	0
2505:	0	0	1	0	0	0	0	0
2513:	0	0	1	0	2	0	0	0
2521:	0	0	0	0	1	0	1	0

2529:	1	0	1	1	0	1	1	0

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Channel								
2537:	0	0	0	0	0	0	1	0
2545:	0	1	1	0	1	0	0	2
2553:	0	0	1	0	0	0	1	0
2561:	0	1	0	0	0	0	0	0
2569:	0	0	0	0	0	0	0	1
2577:	0	1	0	0	0	0	0	1
2585:	0	0	1	0	0	1	1	1
2593:	0	0	0	2	1	0	0	0
2601:	0	0	0	1	0	0	0	1
2609:	0	0	0	3	6	8	7	6
2617:	5	0	0	0	0	0	0	0
2625:	0	0	0	0	0	1	1	0
2633:	0	0	0	0	0	0	1	0
2641:	0	0	0	1	1	1	0	1
2649:	0	0	0	0	0	1	1	0
2657:	0	0	0	1	1	1	0	1
2665:	0	0	0	0	0	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	0	0	0	0	0	1	1	1
2689:	0	0	0	0	0	1	1	0
2697:	0	0	0	0	0	0	0	1
2705:	0	0	0	1	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	0	0	0	1	0
2729:	0	0	0	0	2	1	0	0
2737:	0	0	0	0	0	0	0	0
2745:	1	0	0	0	0	0	0	0
2753:	0	1	0	0	0	1	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	1	0	0	0	0	0	0
2777:	1	0	1	0	1	0	0	0
2785:	0	1	0	0	0	0	0	0
2793:	1	0	0	1	0	0	0	0
2801:	1	1	0	1	0	0	0	0
2809:	1	0	0	1	0	0	0	1
2817:	0	0	0	0	1	0	0	0
2825:	0	0	0	2	0	0	0	0
2833:	0	1	0	0	0	0	0	1
2841:	0	0	0	0	0	0	0	0
2849:	1	0	0	0	0	0	1	1
2857:	0	0	0	0	0	1	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	1	0	0	1	0	1
2881:	0	0	0	2	0	0	1	0
2889:	0	1	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	1	0	0	0	0	0	0
2913:	0	0	0	0	0	1	1	0
2921:	0	0	0	0	0	0	0	0
2929:	1	0	0	1	0	0	0	0
2937:	0	0	1	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	1	0	0	0	0	0	0

2961:	0	0	0	1	0	1	1	1

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Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	1	0
2985:	1	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	1	0	1	0	0
3009:	0	0	0	0	1	0	0	0
3017:	1	0	0	1	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	1	1	0	0	0	1	0	0
3057:	0	0	0	1	0	0	0	0
3065:	0	0	1	0	1	0	0	0
3073:	1	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	1	0	0	0	0	1	1	0
3097:	0	1	0	0	0	0	0	0
3105:	0	0	1	1	0	0	1	0
3113:	0	0	0	0	0	0	0	1
3121:	0	0	0	0	0	0	0	0
3129:	0	1	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	1
3153:	0	0	0	1	0	0	0	0
3161:	0	0	0	0	0	0	0	1
3169:	0	0	0	0	0	0	1	0
3177:	1	0	0	0	0	0	0	1
3185:	2	1	0	0	0	0	0	0
3193:	0	0	0	1	0	1	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	1
3217:	0	0	0	1	0	0	1	0
3225:	0	0	1	1	0	0	0	0
3233:	0	0	0	0	1	1	0	0
3241:	0	0	1	0	1	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	1
3273:	0	0	0	0	0	0	0	0
3281:	1	0	0	0	0	0	0	0
3289:	0	0	1	0	0	0	0	1
3297:	0	0	0	1	0	0	0	0
3305:	0	0	1	0	0	0	0	0
3313:	0	0	1	0	0	0	0	0
3321:	1	0	0	0	1	0	0	0
3329:	0	0	1	0	0	0	1	0
3337:	0	1	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	1	0	1	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	1	0	0	0	1
3385:	1	1	0	1	1	0	0	0

3393:	0	0	0	0	0	1	0	0

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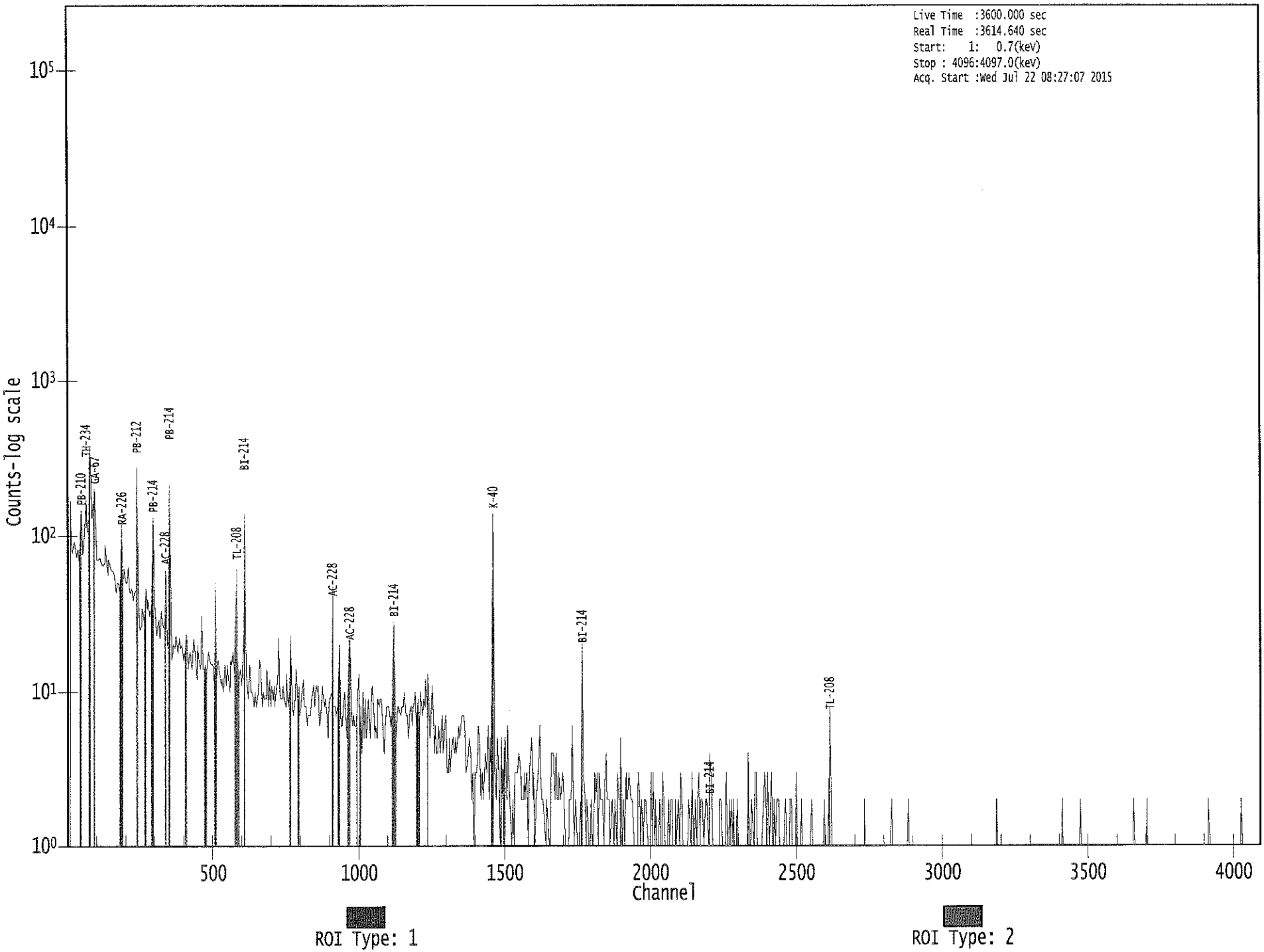
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	2	0	0	0	0	0
3417:	0	0	0	0	0	0	1	1
3425:	1	1	0	0	1	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	1	1	0	0	0	0	0	0
3457:	0	0	1	0	1	0	0	1
3465:	0	0	0	0	0	0	1	0
3473:	0	2	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	1	0	0
3497:	0	0	0	0	1	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	1	1	0	0	0	0	0
3545:	0	1	0	0	0	0	0	0
3553:	0	1	0	0	1	1	1	0
3561:	0	1	0	0	0	0	0	1
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	1
3585:	0	0	0	0	0	1	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	1	1	0	0	0
3609:	1	0	0	0	0	0	0	0
3617:	0	0	0	0	1	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	1	0	0	0	0	1	0	0
3641:	0	1	0	0	0	0	0	0
3649:	0	0	0	0	0	1	0	0
3657:	0	2	0	1	1	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	1	0	0	0	0
3681:	1	1	0	0	0	1	0	0
3689:	1	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	2	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	1	0	0	0	0	1	0
3729:	0	0	0	1	0	0	0	0
3737:	0	0	0	0	1	0	0	0
3745:	0	0	0	1	1	0	0	0
3753:	0	0	0	0	0	1	0	0
3761:	0	0	1	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-01.007-009

Channel								
3833:	0	0	0	0	0	0	0	1
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	1	1	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	1	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	2	0	0	0	0	0	0	1
3921:	0	1	0	0	0	0	0	0
3929:	0	0	0	0	0	0	1	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	1	0	0
3953:	0	1	0	0	0	0	0	1
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	1	0	0	0
3993:	1	0	1	0	0	0	0	0
4001:	0	0	1	0	0	0	0	1
4009:	0	0	0	1	1	0	1	0
4017:	0	1	0	0	0	0	0	0
4025:	1	2	0	0	0	1	1	0
4033:	0	0	0	0	0	0	0	0
4041:	1	1	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	1	0	0	0	1	1	0
4073:	0	0	0	0	0	0	0	0
4081:	0	1	0	0	0	0	1	0
4089:	0	0	0	0	0	0	0	0

0000024971.CNF



Apex-Gamma

Analysis Report for 1506114-07
FEEBRIS1D-01.024-027

7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-07
Sample Description	: FEEBRIS1D-01.024-027
Sample Type	: SOIL
Sample Size	: 5.034E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:38:34AM
Acquisition Started	: 7/22/2015 8:27:14AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.4 seconds
Dead Time	: 0.04 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 24972

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

: 005505

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 9:27:32AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.70	45.95	0.0000	0.00
2	62.88	62.14	0.0000	0.00
3	75.36	74.63	0.0000	0.00
4	92.59	91.87	0.0000	0.00
5	164.00	163.31	0.0000	0.00
6	180.31	179.62	0.0000	0.00
7	186.56	185.87	0.0000	0.00
8	239.46	238.80	0.0000	0.00
9	294.75	294.11	0.0000	0.00
10	339.18	338.56	0.0000	0.00
11	351.80	351.19	0.0000	0.00
12	540.01	539.48	0.0000	0.00
13	581.84	581.33	0.0000	0.00
14	609.39	608.90	0.0000	0.00
15	696.78	696.33	0.0000	0.00
16	708.09	707.64	0.0000	0.00
17	780.59	780.18	0.0000	0.00
18	794.96	794.56	0.0000	0.00
19	912.00	911.66	0.0000	0.00
20	993.65	993.35	0.0000	0.00
21	1120.59	1120.36	0.0000	0.00
22	1171.11	1170.92	0.0000	0.00
23	1349.73	1349.64	0.0000	0.00
24	1444.57	1444.53	0.0000	0.00
25	1460.81	1460.79	0.0000	0.00
26	1473.63	1473.61	0.0000	0.00
27	1592.37	1592.42	0.0000	0.00
28	1741.35	1741.50	0.0000	0.00
29	1764.16	1764.33	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:27:32AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
1	46.70	39 -	51	45.95	1.26E+02	74.75	5.97E+02	3.41
2	62.88	57 -	66	62.14	1.12E+02	70.70	6.51E+02	1.93
3	75.36	68 -	82	74.63	2.46E+02	104.72	1.05E+03	4.10
4	92.59	86 -	97	91.87	1.69E+02	80.15	6.97E+02	1.93
5	164.00	159 -	167	163.31	7.01E+01	44.39	2.58E+02	4.95
6	180.31	175 -	182	179.62	3.56E+01	41.18	2.57E+02	3.05
7	186.56	183 -	192	185.87	7.70E+01	49.15	3.04E+02	2.59
8	239.46	233 -	244	238.80	6.02E+01	57.97	3.90E+02	5.17
9	294.75	287 -	298	294.11	9.43E+01	46.82	2.23E+02	2.28
10	339.18	334 -	343	338.56	4.03E+01	32.40	1.19E+02	2.86
11	351.80	346 -	357	351.19	1.20E+02	45.48	2.00E+02	2.39
12	540.01	533 -	546	539.48	4.77E+01	25.04	4.65E+01	10.88
13	581.84	575 -	587	581.33	2.50E+01	27.62	7.80E+01	2.44
14	609.39	603 -	617	608.90	1.15E+02	37.19	9.62E+01	3.08
15	696.78	691 -	701	696.33	2.09E+01	19.28	3.82E+01	3.15
16	708.09	703 -	712	707.64	2.10E+01	17.15	3.01E+01	6.64
17	780.59	773 -	787	780.18	2.31E+01	21.20	3.77E+01	6.64
18	794.96	791 -	799	794.56	1.85E+01	15.67	2.49E+01	3.71
19	912.00	907 -	918	911.66	1.73E+01	18.55	2.94E+01	2.26
20	993.65	983 -	1002	993.35	3.15E+01	21.91	2.70E+01	14.04
21	1120.59	1115 -	1125	1120.36	3.75E+01	15.25	1.10E+01	2.46
22	1171.11	1167 -	1174	1170.92	1.10E+01	9.59	8.00E+00	3.97
23	1349.73	1346 -	1353	1349.64	6.90E+00	8.49	6.20E+00	1.02
24	1444.57	1442 -	1447	1444.53	4.33E+00	5.74	3.33E+00	1.64
25	1460.81	1456 -	1467	1460.79	4.30E+01	16.37	1.20E+01	3.96
26	1473.63	1470 -	1476	1473.61	6.31E+00	6.65	3.38E+00	1.27
27	1592.37	1587 -	1595	1592.42	6.25E+00	7.23	3.50E+00	2.65
28	1741.35	1736 -	1745	1741.50	8.00E+00	5.66	0.00E+00	1.12
29	1764.16	1759 -	1769	1764.33	1.94E+01	10.87	5.14E+00	3.24

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 9:27:32AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	46.70	39 -	51	1.26E+02	74.75	5.97E+02	5.86E+01
2	62.88	57 -	66	1.12E+02	70.70	6.51E+02	5.55E+01
3	75.36	68 -	82	2.46E+02	104.72	1.05E+03	8.21E+01
4	92.59	86 -	97	1.69E+02	80.15	6.97E+02	6.23E+01
5	164.00	159 -	167	7.01E+01	44.39	2.58E+02	3.38E+01
6	180.31	175 -	182	3.56E+01	41.18	2.57E+02	3.24E+01
7	186.56	183 -	192	7.70E+01	49.15	3.04E+02	3.77E+01
8	239.46	233 -	244	6.02E+01	57.97	3.90E+02	4.59E+01
9	294.75	287 -	298	9.43E+01	46.82	2.23E+02	3.50E+01
10	339.18	334 -	343	4.03E+01	32.40	1.19E+02	2.45E+01
11	351.80	346 -	357	1.20E+02	45.48	2.00E+02	3.28E+01
12	540.01	533 -	546	4.77E+01	25.04	4.65E+01	1.72E+01
13	581.84	575 -	587	2.50E+01	27.62	7.80E+01	2.12E+01
14	609.39	603 -	617	1.15E+02	37.19	9.62E+01	2.50E+01
15	696.78	691 -	701	2.09E+01	19.28	3.82E+01	1.40E+01
16	708.09	703 -	712	2.10E+01	17.15	3.01E+01	1.19E+01
17	780.59	773 -	787	2.31E+01	21.20	3.77E+01	1.55E+01
18	794.96	791 -	799	1.85E+01	15.67	2.49E+01	1.08E+01
19	912.00	907 -	918	1.73E+01	18.55	2.94E+01	1.36E+01
20	993.65	983 -	1002	3.15E+01	21.91	2.70E+01	1.55E+01
21	1120.59	1115 -	1125	3.75E+01	15.25	1.10E+01	7.47E+00
22	1171.11	1167 -	1174	1.10E+01	9.59	8.00E+00	5.70E+00
23	1349.73	1346 -	1353	6.90E+00	8.49	6.20E+00	5.48E+00
24	1444.57	1442 -	1447	4.33E+00	5.74	3.33E+00	3.25E+00
25	1460.81	1456 -	1467	4.30E+01	16.37	1.20E+01	8.05E+00
26	1473.63	1470 -	1476	6.31E+00	6.65	3.38E+00	3.58E+00
27	1592.37	1587 -	1595	6.25E+00	7.23	3.50E+00	4.29E+00
28	1741.35	1736 -	1745	8.00E+00	5.66	0.00E+00	0.00E+00
29	1764.16	1759 -	1769	1.94E+01	10.87	5.14E+00	5.23E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 9:27:32AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	46.70	39 -	51	45.95	1.26E+02	74.75	5.97E+02	PB-210
2	62.88	57 -	66	62.14	1.12E+02	70.70	6.51E+02	TH-230
								TH-234
3	75.36	68 -	82	74.63	2.46E+02	104.72	1.05E+03	AM-243
4	92.59	86 -	97	91.87	1.69E+02	80.15	6.97E+02	GA-67
5	164.00	159 -	167	163.31	7.01E+01	44.39	2.58E+02	CS-136
								U-235
6	180.31	175 -	182	179.62	3.56E+01	41.18	2.57E+02	MO-99
7	186.56	183 -	192	185.87	7.70E+01	49.15	3.04E+02	RA-226
8	239.46	233 -	244	238.80	6.02E+01	57.97	3.90E+02	PB-212
9	294.75	287 -	298	294.11	9.43E+01	46.82	2.23E+02	PB-214
10	339.18	334 -	343	338.56	4.03E+01	32.40	1.19E+02	AC-228
11	351.80	346 -	357	351.19	1.20E+02	45.48	2.00E+02	PB-214
12	540.01	533 -	546	539.48	4.77E+01	25.04	4.65E+01	.....
13	581.84	575 -	587	581.33	2.50E+01	27.62	7.80E+01	.....
14	609.39	603 -	617	608.90	1.15E+02	37.19	9.62E+01	BI-214
15	696.78	691 -	701	696.33	2.09E+01	19.28	3.82E+01	PM-144
16	708.09	703 -	712	707.64	2.10E+01	17.15	3.01E+01	.....
17	780.59	773 -	787	780.18	2.31E+01	21.20	3.77E+01	.....
18	794.96	791 -	799	794.56	1.85E+01	15.67	2.49E+01	CS-134
19	912.00	907 -	918	911.66	1.73E+01	18.55	2.94E+01	LU-172
								AC-228
20	993.65	983 -	1002	993.35	3.15E+01	21.91	2.70E+01	.....
21	1120.59	1115 -	1125	1120.36	3.75E+01	15.25	1.10E+01	SC-46
								BI-214
								TA-182
22	1171.11	1167 -	1174	1170.92	1.10E+01	9.59	8.00E+00	.....
23	1349.73	1346 -	1353	1349.64	6.90E+00	8.49	6.20E+00	.....
24	1444.57	1442 -	1447	1444.53	4.33E+00	5.74	3.33E+00	.....
25	1460.81	1456 -	1467	1460.79	4.30E+01	16.37	1.20E+01	K-40
26	1473.63	1470 -	1476	1473.61	6.31E+00	6.65	3.38E+00	.....
27	1592.37	1587 -	1595	1592.42	6.25E+00	7.23	3.50E+00	.....
28	1741.35	1736 -	1745	1741.50	8.00E+00	5.66	0.00E+00	.....
29	1764.16	1759 -	1769	1764.33	1.94E+01	10.87	5.14E+00	BI-214

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 9:27:32AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	46.70	1.26E+02	74.75	2.63E-02	1.78E-03
2	62.88	1.12E+02	70.70	2.33E-02	1.76E-03
3	75.36	2.46E+02	104.72	2.14E-02	1.70E-03
4	92.59	1.69E+02	80.15	1.90E-02	1.62E-03
5	164.00	7.01E+01	44.39	1.28E-02	1.23E-03
6	180.31	3.56E+01	41.18	1.19E-02	1.17E-03
7	186.56	7.70E+01	49.15	1.16E-02	1.15E-03
8	239.46	6.02E+01	57.97	9.39E-03	9.84E-04
9	294.75	9.43E+01	46.82	7.80E-03	8.44E-04
10	339.18	4.03E+01	32.40	6.84E-03	7.94E-04
11	351.80	1.20E+02	45.48	6.61E-03	7.80E-04
12	540.01	4.77E+01	25.04	4.37E-03	5.19E-04
13	581.84	2.50E+01	27.62	4.06E-03	4.57E-04
14	609.39	1.15E+02	37.19	3.87E-03	4.17E-04
15	696.78	2.09E+01	19.28	3.39E-03	3.21E-04
16	708.09	2.10E+01	17.15	3.34E-03	3.14E-04
17	780.59	2.31E+01	21.20	3.04E-03	2.74E-04
18	794.96	1.85E+01	15.67	2.98E-03	2.66E-04
19	912.00	1.73E+01	18.55	2.61E-03	2.06E-04
20	993.65	3.15E+01	21.91	2.40E-03	1.96E-04
21	1120.59	3.75E+01	15.25	2.14E-03	1.79E-04
22	1171.11	1.10E+01	9.59	2.06E-03	1.73E-04
23	1349.73	6.90E+00	8.49	1.81E-03	2.12E-04
24	1444.57	4.33E+00	5.74	1.70E-03	1.92E-04
25	1460.81	4.30E+01	16.37	1.68E-03	1.89E-04
26	1473.63	6.31E+00	6.65	1.67E-03	1.86E-04
27	1592.37	6.25E+00	7.23	1.56E-03	1.62E-04
28	1741.35	8.00E+00	5.66	1.45E-03	1.31E-04
29	1764.16	1.94E+01	10.87	1.43E-03	1.26E-04

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 9:27:32AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	46.70	1.26E+02	74.75	2.93E+01	8.52E+00	9.70E+01	7.52E+01
2	62.88	1.12E+02	70.70	3.87E+01	8.57E+00	7.30E+01	7.12E+01
3	75.36	2.46E+02	104.72			2.46E+02	1.05E+02
4	92.59	1.69E+02	80.15	5.30E+01	1.67E+01	1.16E+02	8.19E+01
5	164.00	7.01E+01	44.39			7.01E+01	4.44E+01
6	180.31	3.56E+01	41.18			3.56E+01	4.12E+01
7	186.56	7.70E+01	49.15	2.05E+01	1.20E+01	5.65E+01	5.06E+01
8	239.46	6.02E+01	57.97	4.80E+00	4.74E+00	5.54E+01	5.82E+01
9	294.75	9.43E+01	46.82			9.43E+01	4.68E+01
10	339.18	4.03E+01	32.40			4.03E+01	3.24E+01
11	351.80	1.20E+02	45.48			1.20E+02	4.55E+01
12	540.01	4.77E+01	25.04			4.77E+01	2.50E+01
13	581.84	2.50E+01	27.62			2.50E+01	2.76E+01
14	609.39	1.15E+02	37.19			1.15E+02	3.72E+01
15	696.78	2.09E+01	19.28			2.09E+01	1.93E+01
16	708.09	2.10E+01	17.15			2.10E+01	1.71E+01
17	780.59	2.31E+01	21.20			2.31E+01	2.12E+01
18	794.96	1.85E+01	15.67			1.85E+01	1.57E+01
19	912.00	1.73E+01	18.55			1.73E+01	1.85E+01
20	993.65	3.15E+01	21.91			3.15E+01	2.19E+01
21	1120.59	3.75E+01	15.25			3.75E+01	1.52E+01
22	1171.11	1.10E+01	9.59			1.10E+01	9.59E+00
23	1349.73	6.90E+00	8.49			6.90E+00	8.49E+00
24	1444.57	4.33E+00	5.74			4.33E+00	5.74E+00
25	1460.81	4.30E+01	16.37			4.30E+01	1.64E+01
26	1473.63	6.31E+00	6.65			6.31E+00	6.65E+00
27	1592.37	6.25E+00	7.23			6.25E+00	7.23E+00
28	1741.35	8.00E+00	5.66			8.00E+00	5.66E+00
29	1764.16	1.94E+01	10.87			1.94E+01	1.09E+01

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 9:27:32AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	46.70	1.26E+02	74.75	2.93E+01	8.52E+00	9.70E+01	7.52E+01
2	62.88	1.12E+02	70.70	3.87E+01	8.57E+00	7.30E+01	7.12E+01
3	75.36	2.46E+02	104.72			2.46E+02	1.05E+02
4	92.59	1.69E+02	80.15	5.30E+01	1.67E+01	1.16E+02	8.19E+01
5	164.00	7.01E+01	44.39			7.01E+01	4.44E+01
6	180.31	3.56E+01	41.18			3.56E+01	4.12E+01
7	186.56	7.70E+01	49.15	2.05E+01	1.20E+01	5.65E+01	5.06E+01
8	239.46	6.02E+01	57.97	4.80E+00	4.74E+00	5.54E+01	5.82E+01
9	294.75	9.43E+01	46.82			9.43E+01	4.68E+01
10	339.18	4.03E+01	32.40			4.03E+01	3.24E+01
11	351.80	1.20E+02	45.48			1.20E+02	4.55E+01
12	540.01	4.77E+01	25.04			4.77E+01	2.50E+01
13	581.84	2.50E+01	27.62			2.50E+01	2.76E+01
14	609.39	1.15E+02	37.19			1.15E+02	3.72E+01
15	696.78	2.09E+01	19.28			2.09E+01	1.93E+01
16	708.09	2.10E+01	17.15			2.10E+01	1.71E+01
17	780.59	2.31E+01	21.20			2.31E+01	2.12E+01
18	794.96	1.85E+01	15.67			1.85E+01	1.57E+01
19	912.00	1.73E+01	18.55			1.73E+01	1.85E+01
20	993.65	3.15E+01	21.91			3.15E+01	2.19E+01
21	1120.59	3.75E+01	15.25			3.75E+01	1.52E+01
22	1171.11	1.10E+01	9.59			1.10E+01	9.59E+00
23	1349.73	6.90E+00	8.49			6.90E+00	8.49E+00
24	1444.57	4.33E+00	5.74			4.33E+00	5.74E+00
25	1460.81	4.30E+01	16.37			4.30E+01	1.64E+01
26	1473.63	6.31E+00	6.65			6.31E+00	6.65E+00
27	1592.37	6.25E+00	7.23			6.25E+00	7.23E+00
28	1741.35	8.00E+00	5.66			8.00E+00	5.66E+00
29	1764.16	1.94E+01	10.87			1.94E+01	1.09E+01

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.000	1460.81	*	10.67	3.57E+00	1.42E+00
GA-67	0.359	93.31	*	35.70	1.51E+02	6.24E+02
		208.95		2.24		
		300.22		16.00		
PB-210	0.994	46.50	*	4.25	1.30E+00	1.01E+00
PB-212	0.799	238.63	*	44.60	1.97E-01	2.08E-01
		300.09		3.41		
BI-214	0.930	609.31	*	46.30	9.55E-01	3.26E-01
		1120.29	*	15.10	1.73E+00	7.17E-01
		1764.49	*	15.80	1.28E+00	7.24E-01
		2204.22		4.98		
PB-214	0.987	295.21	*	19.19	9.40E-01	4.78E-01
		351.92	*	37.19	7.28E-01	2.89E-01
RA-226	0.981	186.21	*	3.28	2.21E+00	4.52E+00
AC-228	0.498	338.32	*	11.40	7.69E-01	6.26E-01
		911.07	*	27.70	3.57E-01	3.84E-01
		969.11		16.60		
TH-234	0.973	63.29	*	3.80	1.23E+00	1.20E+00
AM-243	0.926	74.67	*	66.00	2.60E-01	1.13E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:27:32AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
5	164.00	1.94612E-02	31.68	Tol.	CS-136 U-235
6	180.31	9.89414E-03	57.81	Tol.	MO-99
12	540.01	1.32629E-02	26.22		
13	581.84	6.94444E-03	55.24		
15	696.78	5.80903E-03	46.10	Tol.	PM-144
16	708.09	5.82562E-03	40.88		
17	780.59	6.42526E-03	45.82		
18	794.96	5.15233E-03	42.24	Sum	
20	993.65	8.75000E-03	34.78		
22	1171.11	3.05556E-03	43.60		
23	1349.73	1.91667E-03	61.49		
24	1444.57	1.20370E-03	66.28		
26	1473.63	1.75347E-03	52.69		
27	1592.37	1.73611E-03	57.83		
28	1741.35	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.00	1460.81	*	10.67	3.57E+00	1.42E+00
GA-67	0.35	93.31	*	35.70	1.51E+02	6.24E+02
		208.95		2.24		

Analysis Report for 1506114-07

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
GA-67	0.35	300.22		16.00		
PB-210	0.99	46.50	*	4.25	1.30E+00	1.01E+00
PB-212	0.79	238.63	*	44.60	1.97E-01	2.08E-01
		300.09		3.41		
BI-214	0.93	609.31	*	46.30	9.55E-01	3.26E-01
		1120.29	*	15.10	1.73E+00	7.17E-01
		1764.49	*	15.80	1.28E+00	7.24E-01
		2204.22		4.98		
PB-214	0.98	295.21	*	19.19	9.40E-01	4.78E-01
		351.92	*	37.19	7.28E-01	2.89E-01
RA-226	0.98	186.21	*	3.28	2.21E+00	4.52E+00
AC-228	0.49	338.32	*	11.40	7.69E-01	6.26E-01
		911.07	*	27.70	3.57E-01	3.84E-01
		969.11		16.60		
TH-234	0.97	63.29	*	3.80	1.23E+00	1.20E+00
AM-243	0.92	74.67	*	66.00	2.60E-01	1.13E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	1.000	3.57E+00	1.42E+00	
GA-67	0.359	1.51E+02	6.24E+02	
PB-210	0.994	1.30E+00	1.01E+00	
PB-212	0.799	1.97E-01	2.08E-01	
BI-214	0.930	1.11E+00	2.74E-01	
PB-214	0.987	7.85E-01	2.47E-01	
RA-226	0.981	2.21E+00	4.52E+00	
AC-228	0.498	4.70E-01	3.27E-01	
TH-234	0.973	1.23E+00	1.20E+00	
AM-243	0.926	2.60E-01	1.13E-01	

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 9:27:32AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
5	164.00	1.94612E-02	31.68	Tol.	CS-136 U-235
6	180.31	9.89414E-03	57.81	Tol.	MO-99
12	540.01	1.32629E-02	26.22		
13	581.84	6.94444E-03	55.24		
15	696.78	5.80903E-03	46.10	Tol.	PM-144
16	708.09	5.82562E-03	40.88		
17	780.59	6.42526E-03	45.82		
18	794.96	5.15233E-03	42.24	Sum	
20	993.65	8.75000E-03	34.78		
22	1171.11	3.05556E-03	43.60		
23	1349.73	1.91667E-03	61.49		
24	1444.57	1.20370E-03	66.28		
26	1473.63	1.75347E-03	52.69		
27	1592.37	1.73611E-03	57.83		
28	1741.35	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	3.54E-01	1.62E+00	1.62E+00

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NA-22	1274.54		99.94	3.08E-02	1.56E-01	1.56E-01
+	NA-24	1368.53		99.99	-3.57E+11	3.75E+13	3.75E+13
		2754.09		99.86	1.72E+13		5.17E+13
+	AL-26	1808.65		99.76	1.42E-02	1.39E-01	1.39E-01
+	K-40	1460.81	*	10.67	3.57E+00	1.56E+00	1.56E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-6.16E-02	6.69E-02	6.69E-02
		78.34		96.00	7.48E-02		7.88E-02
+	SC-46	889.25		99.98	7.23E-02	1.68E-01	1.68E-01
		1120.51		99.99	2.95E-01		2.93E-01
+	V-48	983.52		99.98	-5.29E-02	5.67E-01	5.67E-01
		1312.10		97.50	1.18E-01		6.48E-01
+	CR-51	320.08		9.83	-2.17E-01	2.05E+00	2.05E+00
+	MN-54	834.83		99.97	4.86E-03	1.58E-01	1.58E-01
+	CO-56	846.75		99.96	7.40E-02	1.77E-01	1.77E-01
		1037.75		14.03	-1.96E-01		1.05E+00
		1238.25		67.00	1.11E-01		3.64E-01
		1771.40		15.51	1.05E-01		1.39E+00
		2598.48		16.90	0.00E+00		2.89E-01
+	CO-57	122.06		85.51	-2.35E-02	8.23E-02	8.23E-02
		136.48		10.60	-8.31E-02		6.82E-01
+	CO-58	810.76		99.40	7.98E-02	1.91E-01	1.91E-01
+	FE-59	1099.22		56.50	-2.29E-01	2.72E-01	2.72E-01
		1291.56		43.20	1.11E-01		4.88E-01
+	CO-60	1173.22		100.00	-7.34E-03	1.37E-01	1.65E-01
		1332.49		100.00	-2.75E-02		1.37E-01
+	ZN-65	1115.52		50.75	-1.07E-02	3.34E-01	3.34E-01
+	GA-67	93.31	*	35.70	1.51E+02	1.73E+02	1.73E+02
		208.95		2.24	3.04E+02		2.23E+03
		300.22		16.00	7.76E+01		3.74E+02
+	SE-75	121.11		16.70	-1.64E-01	1.31E-01	4.61E-01
		136.00		59.20	-8.20E-02		1.31E-01
		264.65		59.80	-1.87E-02		1.85E-01
		279.53		25.20	-3.88E-02		4.30E-01
		400.65		11.40	-3.34E-01		1.01E+00
+	RB-82	776.52		13.00	-4.11E-01	2.17E+00	2.17E+00
+	RB-83	520.41		46.00	8.86E-02	3.28E-01	3.28E-01
		529.64		30.30	-1.17E-01		4.68E-01
		552.65		16.40	4.03E-01		8.41E-01
+	KR-85	513.99		0.43	3.35E+01	3.48E+01	3.48E+01
+	SR-85	513.99		99.27	2.01E-01	2.08E-01	2.08E-01
+	Y-88	898.02		93.40	-2.93E-02	1.58E-01	1.60E-01
		1836.01		99.38	-4.38E-02		1.58E-01
+	NB-93M	16.57		9.43	6.41E-01	4.02E-01	4.02E-01
+	NB-94	702.63		100.00	-1.03E-01	1.13E-01	1.13E-01
		871.10		100.00	-2.46E-02		1.23E-01
+	NB-95	765.79		99.81	5.66E-02	2.43E-01	2.43E-01

Analysis Report for 1506114-07

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95M	235.69	25.00	5.69E+00	1.31E+02	1.31E+02
+	ZR-95	724.18	43.70	-4.12E-02	2.87E-01	3.69E-01
		756.72	55.30	8.79E-02		2.87E-01
+	MO-99	181.06	6.20	-2.32E+03	1.59E+03	2.63E+03
		739.58	12.80	-4.04E+02		1.59E+03
		778.00	4.50	1.36E+03		5.88E+03
+	RU-103	497.08	89.00	-6.42E-03	2.02E-01	2.02E-01
+	RU-106	621.84	9.80	-2.51E-01	1.12E+00	1.12E+00
+	AG-108M	433.93	89.90	6.26E-02	1.23E-01	1.23E-01
		614.37	90.40	-1.06E-01		1.66E-01
		722.95	90.50	-9.81E-03		1.33E-01
+	CD-109	88.03	3.72	1.87E-01	2.01E+00	2.01E+00
+	AG-110M	657.75	93.14	-5.67E-03	1.43E-01	1.43E-01
		677.61	10.53	-2.47E-01		1.10E+00
		706.67	16.46	3.53E-01		8.66E-01
		763.93	21.98	7.22E-02		6.60E-01
		884.67	71.63	-1.68E-02		1.94E-01
		1384.27	23.94	-1.85E-01		6.95E-01
+	CD-113M	263.70	0.02	-7.41E+01	3.96E+02	3.96E+02
+	SN-113	255.12	1.93	-1.22E+00	1.77E-01	5.39E+00
		391.69	64.90	-2.66E-02		1.77E-01
+	TE123M	159.00	84.10	-1.95E-02	1.03E-01	1.03E-01
+	SB-124	602.71	97.87	4.62E-02	1.77E-01	1.77E-01
		645.85	7.26	-2.87E-02		2.02E+00
		722.78	11.10	-2.60E-02		1.61E+00
		1691.02	49.00	2.90E-02		3.48E-01
+	I-125	35.49	6.49	-4.40E-02	8.27E-01	8.27E-01
+	SB-125	176.33	6.89	2.42E-01	3.64E-01	1.23E+00
		427.89	29.33	-1.86E-01		3.64E-01
		463.38	10.35	2.21E-01		1.06E+00
		600.56	17.80	1.62E-01		6.99E-01
		635.90	11.32	9.65E-02		9.73E-01
+	SB-126	414.70	83.30	-4.39E-01	6.05E-01	6.05E-01
		666.33	99.60	1.06E-01		6.93E-01
		695.00	99.60	4.43E-01		7.32E-01
		720.50	53.80	2.59E-01		1.31E+00
+	SN-126	87.57	37.00	1.79E-02	1.93E-01	1.93E-01
+	SB-127	473.00	25.00	-2.41E+01	7.40E+01	9.74E+01
		685.20	35.70	2.58E+01		7.40E+01
		783.80	14.70	6.97E+00		2.05E+02
+	I-129	29.78	57.00	-4.08E-02	6.56E-02	6.56E-02
		33.60	13.20	-1.46E-02		2.86E-01
		39.58	7.52	-3.72E-02		5.18E-01
+	I-131	284.30	6.05	8.84E+00	1.65E+00	2.00E+01
		364.48	81.20	3.36E-01		1.65E+00
		636.97	7.26	-5.75E-01		1.99E+01
		722.89	1.80	-1.51E+00		9.38E+01
+	TE-132	49.72	13.10	5.74E-01	5.64E+01	2.29E+02

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TE-132	228.16	88.00	-6.53E+00	5.64E+01	5.64E+01
+	BA-133	81.00	33.00	1.42E-02	2.21E-01	2.21E-01
		302.84	17.80	9.91E-02		5.43E-01
		356.01	60.00	2.40E-03		2.45E-01
+	I-133	529.87	86.30	-8.90E+08	3.55E+09	3.55E+09
+	CS-134	563.23	8.38	6.49E-01	1.72E-01	1.48E+00
		569.32	15.43	-3.01E-01		7.25E-01
		604.70	97.60	1.34E-02		1.83E-01
		795.84	85.40	3.10E-02		1.72E-01
		801.93	8.73	-2.08E-02		1.43E+00
+	CS-135	268.24	16.00	-2.55E-02	5.73E-01	5.73E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	1.06E+00	5.91E-01	4.83E+00
		163.89	4.61	4.45E+00		8.38E+00
		176.55	13.56	5.87E-01		2.98E+00
		273.65	12.66	1.03E+00		3.56E+00
		340.57	48.50	9.78E-02		1.00E+00
		818.50	99.70	-1.70E-01		5.91E-01
		1048.07	79.60	-8.88E-03		8.28E-01
		1235.34	19.70	-2.63E-01		4.52E+00
+	CS-137	661.65	85.12	7.92E-02	1.67E-01	1.67E-01
+	LA-138	788.74	34.00	0.00E+00	2.30E-01	3.51E-01
		1435.80	66.00	5.46E-02		2.30E-01
+	CE-139	165.85	80.35	-1.49E-02	1.15E-01	1.15E-01
+	BA-140	162.64	6.70	4.00E+00	2.45E+00	6.03E+00
		304.84	4.50	5.75E-01		1.05E+01
		423.70	3.20	3.77E+00		1.82E+01
		437.55	2.00	-2.13E+00		2.75E+01
		537.32	25.00	2.17E-01		2.45E+00
+	LA-140	328.77	20.50	-1.68E-01	7.67E-01	2.33E+00
		487.03	45.50	-4.00E-02		1.24E+00
		815.85	23.50	-1.00E+00		2.67E+00
		1596.49	95.49	-1.11E-01		7.67E-01
+	CE-141	145.44	48.40	1.19E-01	2.94E-01	2.94E-01
+	CE-143	57.36	11.80	3.08E+04	1.14E+06	1.69E+06
		293.26	42.00	1.88E+06		1.14E+06
		664.55	5.20	2.72E+06		1.01E+07
+	CE-144	133.54	10.80	-2.78E-01	6.45E-01	6.45E-01
+	PM-144	476.78	42.00	1.22E-01	1.15E-01	2.93E-01
		618.01	98.60	-1.42E-02		1.15E-01
		696.49	99.49	1.05E-01		1.43E-01
+	PM-145	36.85	21.70	-1.14E-02	9.78E-02	1.77E-01
		37.36	39.70	-7.56E-03		9.78E-02
		42.30	15.10	-2.62E-02		2.96E-01
		72.40	2.31	3.80E+00		3.22E+00
+	PM-146	453.90	39.94	-1.32E-01	2.29E-01	2.29E-01
		735.90	14.01	2.44E-01		8.20E-01

Analysis Report for 1506114-07

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	747.13	13.10	-2.36E-02	2.29E-01	8.34E-01
+	ND-147	91.11	28.90	2.63E+00	1.80E+00	1.80E+00
		531.02	13.10	2.61E-01		5.74E+00
+	PM-149	285.90	3.10	1.73E+04	3.68E+04	3.68E+04
+	EU-152	121.78	20.50	-9.09E-02	3.18E-01	3.18E-01
		244.69	5.40	2.48E-01		1.88E+00
		344.27	19.13	6.00E-02		4.89E-01
		778.89	9.20	3.45E-01		1.49E+00
		964.01	10.40	5.82E-02		1.51E+00
		1085.78	7.22	3.27E-01		2.11E+00
		1112.02	9.60	5.96E-01		1.66E+00
		1407.95	14.94	-2.30E-01		8.13E-01
+	GD-153	97.43	31.30	5.78E-03	2.19E-01	2.19E-01
		103.18	22.20	-7.17E-02		2.84E-01
+	EU-154	123.07	40.50	-4.29E-02	1.63E-01	1.63E-01
		723.30	19.70	-4.54E-02		6.15E-01
		873.19	11.50	2.10E-01		1.15E+00
		996.32	10.30	6.29E-01		1.46E+00
		1004.76	17.90	-1.07E-01		7.10E-01
		1274.45	35.50	8.55E-02		4.33E-01
+	EU-155	86.50	30.90	2.16E-02	2.21E-01	2.21E-01
		105.30	20.70	-9.48E-02		2.81E-01
+	EU-156	811.77	10.40	1.50E+00	5.29E+00	5.29E+00
		1153.47	7.20	-2.30E+00		7.37E+00
		1230.71	8.90	-1.08E+00		7.73E+00
+	HO-166M	184.41	72.60	8.94E-02	1.27E-01	1.27E-01
		280.45	29.60	1.40E-01		3.20E-01
		410.94	11.10	2.45E-01		8.85E-01
		711.69	54.10	-3.32E-02		2.51E-01
+	TM-171	66.72	0.14	-9.97E-01	4.70E+01	4.70E+01
+	HF-172	81.75	4.52	1.46E-01	6.15E-01	1.55E+00
		125.81	11.30	2.97E-01		6.15E-01
+	LU-172	181.53	20.60	1.25E-01	4.59E+00	9.51E+00
		810.06	16.63	7.95E+00		1.91E+01
		912.12	15.25	1.42E+01		2.33E+01
		1093.66	62.50	-1.26E+00		4.59E+00
+	LU-173	100.72	5.24	-6.81E-03	4.53E-01	1.16E+00
		272.11	21.20	8.54E-02		4.53E-01
+	HF-175	343.40	84.00	1.83E-02	1.47E-01	1.47E-01
+	LU-176	88.34	13.30	-3.44E-03	9.47E-02	5.67E-01
		201.83	86.00	2.43E-02		1.01E-01
		306.78	94.00	-4.37E-02		9.47E-02
+	TA-182	67.75	41.20	-1.69E-01	1.83E-01	1.83E-01
		1121.30	34.90	6.57E-01		7.69E-01
		1189.05	16.23	-7.61E-01		9.47E-01
		1221.41	26.98	-2.71E-01		7.34E-01
		1231.02	11.44	-2.56E-01		1.83E+00
+	IR-192	308.46	29.68	-2.55E-01	3.02E-01	3.95E-01
		468.07	48.10	1.12E-01		3.02E-01

Analysis Report for 1506114-07

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	HG-203	279.19		77.30	-1.66E-02	1.84E-01	1.84E-01
+	BI-207	569.67		97.72	-4.64E-02	1.12E-01	1.12E-01
		1063.62		74.90	6.71E-02		2.13E-01
+	TL-208	583.14		30.22	1.70E-01	4.18E-01	4.22E-01
		860.37		4.48	-6.10E-01		2.71E+00
		2614.66		35.85	-1.68E-01		4.18E-01
+	BI-210M	262.00		45.00	4.01E-02	2.05E-01	2.05E-01
		300.00		23.00	5.92E-02		4.98E-01
+	PB-210	46.50	*	4.25	1.30E+00	1.64E+00	1.64E+00
+	PB-211	404.84		2.90	1.23E+00	3.52E+00	3.52E+00
		831.96		2.90	1.20E-01		4.93E+00
+	BI-212	727.17		11.80	-6.87E-02	9.72E-01	9.72E-01
		1620.62		2.75	2.64E-01		4.23E+00
+	PB-212	238.63	*	44.60	1.97E-01	3.39E-01	3.39E-01
		300.09		3.41	3.99E-01		3.36E+00
+	BI-214	609.31	*	46.30	9.55E-01	4.38E-01	4.38E-01
		1120.29	*	15.10	1.73E+00		8.13E-01
		1764.49	*	15.80	1.28E+00		8.67E-01
		2204.22		4.98	6.03E-01		3.73E+00
+	PB-214	295.21	*	19.19	9.40E-01	4.14E-01	7.26E-01
		351.92	*	37.19	7.28E-01		4.14E-01
+	RN-219	401.80		6.50	-2.86E-01	1.51E+00	1.51E+00
+	RA-223	323.87		3.88	-4.32E-01	2.37E+00	2.37E+00
+	RA-224	240.98		3.95	3.22E+00	2.86E+00	2.86E+00
+	RA-225	40.00		31.00	-3.70E-02	5.15E-01	5.15E-01
+	RA-226	186.21	*	3.28	2.21E+00	3.22E+00	3.22E+00
+	TH-227	50.10		8.40	1.50E-03	6.00E-01	6.00E-01
		236.00		11.50	3.86E-02		8.91E-01
		256.20		6.30	-3.81E-01		1.38E+00
+	AC-228	338.32	*	11.40	7.69E-01	6.19E-01	9.89E-01
		911.07	*	27.70	3.57E-01		6.19E-01
		969.11		16.60	3.29E-01		9.31E-01
+	TH-230	48.44		16.90	1.87E-01	2.95E-01	2.95E-01
		62.85		4.60	1.27E+00		1.34E+00
		67.67		0.37	-1.57E+01		1.70E+01
+	PA-231	283.67		1.60	2.51E+00	4.18E+00	5.82E+00
		302.67		2.30	7.63E-01		4.18E+00
+	TH-231	25.64		14.70	-6.80E-03	2.77E-01	2.77E-01
		84.21		6.40	1.01E-01		1.00E+00
+	PA-233	311.98		38.60	-9.19E-02	5.15E-01	5.15E-01
+	PA-234	131.20		20.40	-9.95E-02	3.21E-01	3.21E-01
		733.99		8.80	3.15E-02		1.24E+00
		946.00		12.00	2.91E-01		1.16E+00
+	PA-234M	1001.03		0.92	-1.81E+00	1.49E+01	1.49E+01
+	TH-234	63.29	*	3.80	1.23E+00	1.96E+00	1.96E+00
+	U-235	143.76		10.50	7.67E-02	7.03E-01	7.03E-01
		163.35		4.70	8.94E-01		1.68E+00

Analysis Report for 1506114-07

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	205.31		4.70	2.01E-01	7.03E-01	1.81E+00
+	NP-237	86.50		12.60	5.23E-02	5.35E-01	5.35E-01
+	NP-239	106.10		22.70	-5.96E+02	1.77E+03	1.77E+03
		228.18		10.70	-4.92E+02		5.41E+03
		277.60		14.10	-3.02E+03		4.37E+03
+	AM-241	59.54		35.90	-2.19E-02	1.63E-01	1.63E-01
+	AM-243	74.67	*	66.00	2.60E-01	1.77E-01	1.77E-01
+	CM-243	209.75		3.29	4.14E-02	6.35E-01	2.51E+00
		228.14		10.60	-9.08E-02		7.85E-01
		277.60		14.00	-4.39E-01		6.35E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.62E+00	1.62E+00	3.54E-01	7.54E-01
	NA-22	1274.54		99.94	1.56E-01	1.56E-01	3.08E-02	6.72E-02
	NA-24	1368.53		99.99	3.75E+13	3.75E+13	-3.57E+11	1.54E+13
		2754.09		99.86	5.17E+13		1.72E+13	2.00E+13
	AL-26	1808.65		99.76	1.39E-01	1.39E-01	1.42E-02	5.53E-02
+	K-40	1460.81	*	10.67	1.56E+00	1.56E+00	3.57E+00	6.69E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.69E-02	6.69E-02	-6.16E-02	3.25E-02
		78.34		96.00	7.88E-02		7.48E-02	3.84E-02
	SC-46	889.25		99.98	1.68E-01	1.68E-01	7.23E-02	7.44E-02
		1120.51		99.99	2.93E-01		2.95E-01	1.35E-01
	V-48	983.52		99.98	5.67E-01	5.67E-01	-5.29E-02	2.53E-01
		1312.10		97.50	6.48E-01		1.18E-01	2.83E-01

Analysis Report for 1506114-07

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CR-51	320.08		9.83	2.05E+00	2.05E+00	-2.17E-01	9.67E-01
	MN-54	834.83		99.97	1.58E-01	1.58E-01	4.86E-03	7.15E-02
	CO-56	846.75		99.96	1.77E-01	1.77E-01	7.40E-02	7.90E-02
		1037.75		14.03	1.05E+00		-1.96E-01	4.42E-01
		1238.25		67.00	3.64E-01		1.11E-01	1.62E-01
		1771.40		15.51	1.39E+00		1.05E-01	5.76E-01
		2598.48		16.90	2.89E-01		0.00E+00	0.00E+00
	CO-57	122.06		85.51	8.23E-02	8.23E-02	-2.35E-02	3.95E-02
		136.48		10.60	6.82E-01		-8.31E-02	3.27E-01
	CO-58	810.76		99.40	1.91E-01	1.91E-01	7.98E-02	8.62E-02
	FE-59	1099.22		56.50	2.72E-01	2.72E-01	-2.29E-01	1.10E-01
		1291.56		43.20	4.88E-01		1.11E-01	2.04E-01
	CO-60	1173.22		100.00	1.65E-01	1.37E-01	-7.34E-03	7.25E-02
		1332.49		100.00	1.37E-01		-2.75E-02	5.76E-02
	ZN-65	1115.52		50.75	3.34E-01	3.34E-01	-1.07E-02	1.47E-01
+	GA-67	93.31	*	35.70	1.73E+02	1.73E+02	1.51E+02	8.48E+01
		208.95		2.24	2.23E+03		3.04E+02	1.06E+03
		300.22		16.00	3.74E+02		7.76E+01	1.77E+02
	SE-75	121.11		16.70	4.61E-01	1.31E-01	-1.64E-01	2.21E-01
		136.00		59.20	1.31E-01		-8.20E-02	6.26E-02
		264.65		59.80	1.85E-01		-1.87E-02	8.76E-02
		279.53		25.20	4.30E-01		-3.88E-02	2.03E-01
		400.65		11.40	1.01E+00		-3.34E-01	4.68E-01
	RB-82	776.52		13.00	2.17E+00	2.17E+00	-4.11E-01	9.68E-01
	RB-83	520.41		46.00	3.28E-01	3.28E-01	8.86E-02	1.51E-01
		529.64		30.30	4.68E-01		-1.17E-01	2.15E-01
		552.65		16.40	8.41E-01		4.03E-01	3.84E-01
	KR-85	513.99		0.43	3.48E+01	3.48E+01	3.35E+01	1.64E+01
	SR-85	513.99		99.27	2.08E-01	2.08E-01	2.01E-01	9.81E-02
	Y-88	898.02		93.40	1.60E-01	1.58E-01	-2.93E-02	7.03E-02
		1836.01		99.38	1.58E-01		-4.38E-02	6.11E-02
	NB-93M	16.57		9.43	4.02E-01	4.02E-01	6.41E-01	1.94E-01
	NB-94	702.63		100.00	1.13E-01	1.13E-01	-1.03E-01	5.05E-02
		871.10		100.00	1.23E-01		-2.46E-02	5.40E-02
	NB-95	765.79		99.81	2.43E-01	2.43E-01	5.66E-02	1.10E-01
	NB-95M	235.69		25.00	1.31E+02	1.31E+02	5.69E+00	6.29E+01
	ZR-95	724.18		43.70	3.69E-01	2.87E-01	-4.12E-02	1.65E-01
		756.72		55.30	2.87E-01		8.79E-02	1.27E-01
	MO-99	181.06		6.20	2.63E+03	1.59E+03	-2.32E+03	1.26E+03
		739.58		12.80	1.59E+03		-4.04E+02	6.99E+02
		778.00		4.50	5.88E+03		1.36E+03	2.65E+03
	RU-103	497.08		89.00	2.02E-01	2.02E-01	-6.42E-03	9.27E-02
	RU-106	621.84		9.80	1.12E+00	1.12E+00	-2.51E-01	5.03E-01
	AG-108M	433.93		89.90	1.23E-01	1.23E-01	6.26E-02	5.76E-02
		614.37		90.40	1.66E-01		-1.06E-01	7.74E-02
		722.95		90.50	1.33E-01		-9.81E-03	5.97E-02
	CD-109	88.03		3.72	2.01E+00	2.01E+00	1.87E-01	9.77E-01
	AG-110M	657.75		93.14	1.43E-01	1.43E-01	-5.67E-03	6.47E-02
		677.61		10.53	1.10E+00		-2.47E-01	4.92E-01
		706.67		16.46	8.66E-01		3.53E-01	3.93E-01
		763.93		21.98	6.60E-01		7.22E-02	2.98E-01
		884.67		71.63	1.94E-01		-1.68E-02	8.54E-02
		1384.27		23.94	6.95E-01		-1.85E-01	2.96E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CD-113M	263.70	0.02	3.96E+02	3.96E+02	-7.41E+01	1.88E+02
SN-113	255.12	1.93	5.39E+00	1.77E-01	-1.22E+00	2.56E+00
	391.69	64.90	1.77E-01		-2.66E-02	8.24E-02
TE123M	159.00	84.10	1.03E-01	1.03E-01	-1.95E-02	4.95E-02
SB-124	602.71	97.87	1.77E-01	1.77E-01	4.62E-02	8.09E-02
	645.85	7.26	2.02E+00		-2.87E-02	9.04E-01
	722.78	11.10	1.61E+00		-2.60E-02	7.27E-01
	1691.02	49.00	3.48E-01		2.90E-02	1.35E-01
I-125	35.49	6.49	8.27E-01	8.27E-01	-4.40E-02	3.98E-01
SB-125	176.33	6.89	1.23E+00	3.64E-01	2.42E-01	5.89E-01
	427.89	29.33	3.64E-01		-1.86E-01	1.69E-01
	463.38	10.35	1.06E+00		2.21E-01	4.91E-01
	600.56	17.80	6.99E-01		1.62E-01	3.20E-01
	635.90	11.32	9.73E-01		9.65E-02	4.38E-01
SB-126	414.70	83.30	6.05E-01	6.05E-01	-4.39E-01	2.80E-01
	666.33	99.60	6.93E-01		1.06E-01	3.16E-01
	695.00	99.60	7.32E-01		4.43E-01	3.34E-01
	720.50	53.80	1.31E+00		2.59E-01	5.96E-01
SN-126	87.57	37.00	1.93E-01	1.93E-01	1.79E-02	9.36E-02
SB-127	473.00	25.00	9.74E+01	7.40E+01	-2.41E+01	4.51E+01
	685.20	35.70	7.40E+01		2.58E+01	3.34E+01
	783.80	14.70	2.05E+02		6.97E+00	9.25E+01
I-129	29.78	57.00	6.56E-02	6.56E-02	-4.08E-02	3.16E-02
	33.60	13.20	2.86E-01		-1.46E-02	1.38E-01
	39.58	7.52	5.18E-01		-3.72E-02	2.49E-01
I-131	284.30	6.05	2.00E+01	1.65E+00	8.84E+00	9.45E+00
	364.48	81.20	1.65E+00		3.36E-01	7.72E-01
	636.97	7.26	1.99E+01		-5.75E-01	8.93E+00
	722.89	1.80	9.38E+01		-1.51E+00	4.23E+01
TE-132	49.72	13.10	2.29E+02	5.64E+01	5.74E-01	1.11E+02
	228.16	88.00	5.64E+01		-6.53E+00	2.68E+01
BA-133	81.00	33.00	2.21E-01	2.21E-01	1.42E-02	1.07E-01
	302.84	17.80	5.43E-01		9.91E-02	2.56E-01
	356.01	60.00	2.45E-01		2.40E-03	1.17E-01
I-133	529.87	86.30	3.55E+09	3.55E+09	-8.90E+08	1.63E+09
CS-134	563.23	8.38	1.48E+00	1.72E-01	6.49E-01	6.82E-01
	569.32	15.43	7.25E-01		-3.01E-01	3.30E-01
	604.70	97.60	1.83E-01		1.34E-02	8.63E-02
	795.84	85.40	1.72E-01		3.10E-02	7.81E-02
	801.93	8.73	1.43E+00		-2.08E-02	6.33E-01
CS-135	268.24	16.00	5.73E-01	5.73E-01	-2.55E-02	2.71E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	4.83E+00	5.91E-01	1.06E+00	2.32E+00
	163.89	4.61	8.38E+00		4.45E+00	4.02E+00
	176.55	13.56	2.98E+00		5.87E-01	1.43E+00
	273.65	12.66	3.56E+00		1.03E+00	1.69E+00
	340.57	48.50	1.00E+00		9.78E-02	4.71E-01
	818.50	99.70	5.91E-01		-1.70E-01	2.62E-01
	1048.07	79.60	8.28E-01		-8.88E-03	3.60E-01
	1235.34	19.70	4.52E+00		-2.63E-01	2.01E+00
CS-137	661.65	85.12	1.67E-01	1.67E-01	7.92E-02	7.67E-02

Analysis Report for 1506114-07

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
LA-138	788.74	34.00	3.51E-01	2.30E-01	0.00E+00	1.56E-01
	1435.80	66.00	2.30E-01		5.46E-02	9.72E-02
CE-139	165.85	80.35	1.15E-01	1.15E-01	-1.49E-02	5.54E-02
BA-140	162.64	6.70	6.03E+00	2.45E+00	4.00E+00	2.90E+00
	304.84	4.50	1.05E+01		5.75E-01	4.96E+00
	423.70	3.20	1.82E+01		3.77E+00	8.53E+00
	437.55	2.00	2.75E+01		-2.13E+00	1.28E+01
	537.32	25.00	2.45E+00		2.17E-01	1.13E+00
LA-140	328.77	20.50	2.33E+00	7.67E-01	-1.68E-01	1.10E+00
	487.03	45.50	1.24E+00		-4.00E-02	5.74E-01
	815.85	23.50	2.67E+00		-1.00E+00	1.19E+00
	1596.49	95.49	7.67E-01		-1.11E-01	3.14E-01
CE-141	145.44	48.40	2.94E-01	2.94E-01	1.19E-01	1.41E-01
CE-143	57.36	11.80	1.69E+06	1.14E+06	3.08E+04	8.18E+05
	293.26	42.00	1.14E+06		1.88E+06	5.47E+05
	664.55	5.20	1.01E+07		2.72E+06	4.62E+06
CE-144	133.54	10.80	6.45E-01	6.45E-01	-2.78E-01	3.09E-01
PM-144	476.78	42.00	2.93E-01	1.15E-01	1.22E-01	1.36E-01
	618.01	98.60	1.15E-01		-1.42E-02	5.16E-02
	696.49	99.49	1.43E-01		1.05E-01	6.52E-02
PM-145	36.85	21.70	1.77E-01	9.78E-02	-1.14E-02	8.50E-02
	37.36	39.70	9.78E-02		-7.56E-03	4.71E-02
	42.30	15.10	2.96E-01		-2.62E-02	1.43E-01
	72.40	2.31	3.22E+00		3.80E+00	1.57E+00
PM-146	453.90	39.94	2.29E-01	2.29E-01	-1.32E-01	1.05E-01
	735.90	14.01	8.20E-01		2.44E-01	3.65E-01
	747.13	13.10	8.34E-01		-2.36E-02	3.68E-01
ND-147	91.11	28.90	1.80E+00	1.80E+00	2.63E+00	8.73E-01
	531.02	13.10	5.74E+00		2.61E-01	2.64E+00
PM-149	285.90	3.10	3.68E+04	3.68E+04	1.73E+04	1.74E+04
EU-152	121.78	20.50	3.18E-01	3.18E-01	-9.09E-02	1.53E-01
	244.69	5.40	1.88E+00		2.48E-01	9.00E-01
	344.27	19.13	4.89E-01		6.00E-02	2.29E-01
	778.89	9.20	1.49E+00		3.45E-01	6.70E-01
	964.01	10.40	1.51E+00		5.82E-02	6.77E-01
	1085.78	7.22	2.11E+00		3.27E-01	9.27E-01
	1112.02	9.60	1.66E+00		5.96E-01	7.33E-01
	1407.95	14.94	8.13E-01		-2.30E-01	3.28E-01
GD-153	97.43	31.30	2.19E-01	2.19E-01	5.78E-03	1.06E-01
	103.18	22.20	2.84E-01		-7.17E-02	1.36E-01
EU-154	123.07	40.50	1.63E-01	1.63E-01	-4.29E-02	7.84E-02
	723.30	19.70	6.15E-01		-4.54E-02	2.76E-01
	873.19	11.50	1.15E+00		2.10E-01	5.11E-01
	996.32	10.30	1.46E+00		6.29E-01	6.48E-01
	1004.76	17.90	7.10E-01		-1.07E-01	3.07E-01
	1274.45	35.50	4.33E-01		8.55E-02	1.86E-01
EU-155	86.50	30.90	2.21E-01	2.21E-01	2.16E-02	1.07E-01
	105.30	20.70	2.81E-01		-9.48E-02	1.35E-01
EU-156	811.77	10.40	5.29E+00	5.29E+00	1.50E+00	2.38E+00
	1153.47	7.20	7.37E+00		-2.30E+00	3.15E+00
	1230.71	8.90	7.73E+00		-1.08E+00	3.41E+00
HO-166M	184.41	72.60	1.27E-01	1.27E-01	8.94E-02	6.11E-02
	280.45	29.60	3.20E-01		1.40E-01	1.51E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	410.94		11.10	8.85E-01	1.27E-01	2.45E-01	4.10E-01
		711.69		54.10	2.51E-01		-3.32E-02	1.14E-01
	TM-171	66.72		0.14	4.70E+01	4.70E+01	-9.97E-01	2.28E+01
	HF-172	81.75		4.52	1.55E+00	6.15E-01	1.46E-01	7.52E-01
		125.81		11.30	6.15E-01		2.97E-01	2.96E-01
	LU-172	181.53		20.60	9.51E+00	4.59E+00	1.25E-01	4.57E+00
		810.06		16.63	1.91E+01		7.95E+00	8.60E+00
		912.12		15.25	2.33E+01		1.42E+01	1.05E+01
		1093.66		62.50	4.59E+00		-1.26E+00	1.96E+00
	LU-173	100.72		5.24	1.16E+00	4.53E-01	-6.81E-03	5.56E-01
		272.11		21.20	4.53E-01		8.54E-02	2.14E-01
	HF-175	343.40		84.00	1.47E-01	1.47E-01	1.83E-02	6.88E-02
	LU-176	88.34		13.30	5.67E-01	9.47E-02	-3.44E-03	2.76E-01
		201.83		86.00	1.01E-01		2.43E-02	4.81E-02
		306.78		94.00	9.47E-02		-4.37E-02	4.45E-02
	TA-182	67.75		41.20	1.83E-01	1.83E-01	-1.69E-01	8.91E-02
		1121.30		34.90	7.69E-01		6.57E-01	3.52E-01
		1189.05		16.23	9.47E-01		-7.61E-01	4.00E-01
		1221.41		26.98	7.34E-01		-2.71E-01	3.21E-01
		1231.02		11.44	1.83E+00		-2.56E-01	8.07E-01
	IR-192	308.46		29.68	3.95E-01	3.02E-01	-2.55E-01	1.85E-01
		468.07		48.10	3.02E-01		1.12E-01	1.40E-01
	HG-203	279.19		77.30	1.84E-01	1.84E-01	-1.66E-02	8.70E-02
	BI-207	569.67		97.72	1.12E-01	1.12E-01	-4.64E-02	5.08E-02
		1063.62		74.90	2.13E-01		6.71E-02	9.44E-02
	TL-208	583.14		30.22	4.22E-01	4.18E-01	1.70E-01	1.94E-01
		860.37		4.48	2.71E+00		-6.10E-01	1.19E+00
		2614.66		35.85	4.18E-01		-1.68E-01	1.56E-01
	BI-210M	262.00		45.00	2.05E-01	2.05E-01	4.01E-02	9.74E-02
		300.00		23.00	4.98E-01		5.92E-02	2.38E-01
+	PB-210	46.50	*	4.25	1.64E+00	1.64E+00	1.30E+00	8.00E-01
	PB-211	404.84		2.90	3.52E+00	3.52E+00	1.23E+00	1.64E+00
		831.96		2.90	4.93E+00		1.20E-01	2.22E+00
	BI-212	727.17		11.80	9.72E-01	9.72E-01	-6.87E-02	4.33E-01
		1620.62		2.75	4.23E+00		2.64E-01	1.64E+00
+	PB-212	238.63	*	44.60	3.39E-01	3.39E-01	1.97E-01	1.65E-01
		300.09		3.41	3.36E+00		3.99E-01	1.60E+00
+	BI-214	609.31	*	46.30	4.38E-01	4.38E-01	9.55E-01	2.08E-01
		1120.29	*	15.10	8.13E-01		1.73E+00	3.44E-01
		1764.49	*	15.80	8.67E-01		1.28E+00	3.44E-01
		2204.22		4.98	3.73E+00		6.03E-01	1.53E+00
+	PB-214	295.21	*	19.19	7.26E-01	4.14E-01	9.40E-01	3.49E-01
		351.92	*	37.19	4.14E-01		7.28E-01	1.99E-01
	RN-219	401.80		6.50	1.51E+00	1.51E+00	-2.86E-01	7.04E-01
	RA-223	323.87		3.88	2.37E+00	2.37E+00	-4.32E-01	1.11E+00
	RA-224	240.98		3.95	2.86E+00	2.86E+00	3.22E+00	1.37E+00
	RA-225	40.00		31.00	5.15E-01	5.15E-01	-3.70E-02	2.48E-01
+	RA-226	186.21	*	3.28	3.22E+00	3.22E+00	2.21E+00	1.56E+00
	TH-227	50.10		8.40	6.00E-01	6.00E-01	1.50E-03	2.91E-01
		236.00		11.50	8.91E-01		3.86E-02	4.27E-01
		256.20		6.30	1.38E+00		-3.81E-01	6.56E-01
+	AC-228	338.32	*	11.40	9.89E-01	6.19E-01	7.69E-01	4.69E-01
		911.07	*	27.70	6.19E-01		3.57E-01	2.81E-01

Analysis Report for 1506114-07

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	969.11		16.60	9.31E-01	6.19E-01	3.29E-01	4.16E-01
	TH-230	48.44		16.90	2.95E-01	2.95E-01	1.87E-01	1.43E-01
		62.85		4.60	1.34E+00		1.27E+00	6.49E-01
		67.67		0.37	1.70E+01		-1.57E+01	8.27E+00
	PA-231	283.67		1.60	5.82E+00	4.18E+00	2.51E+00	2.75E+00
		302.67		2.30	4.18E+00		7.63E-01	1.97E+00
	TH-231	25.64		14.70	2.77E-01	2.77E-01	-6.80E-03	1.34E-01
		84.21		6.40	1.00E+00		1.01E-01	4.87E-01
	PA-233	311.98		38.60	5.15E-01	5.15E-01	-9.19E-02	2.42E-01
	PA-234	131.20		20.40	3.21E-01	3.21E-01	-9.95E-02	1.54E-01
		733.99		8.80	1.24E+00		3.15E-02	5.47E-01
		946.00		12.00	1.16E+00		2.91E-01	5.14E-01
	PA-234M	1001.03		0.92	1.49E+01	1.49E+01	-1.81E+00	6.52E+00
+	TH-234	63.29	*	3.80	1.96E+00	1.96E+00	1.23E+00	9.56E-01
	U-235	143.76		10.50	7.03E-01	7.03E-01	7.67E-02	3.38E-01
		163.35		4.70	1.68E+00		8.94E-01	8.08E-01
		205.31		4.70	1.81E+00		2.01E-01	8.64E-01
	NP-237	86.50		12.60	5.35E-01	5.35E-01	5.23E-02	2.60E-01
	NP-239	106.10		22.70	1.77E+03	1.77E+03	-5.96E+02	8.49E+02
		228.18		10.70	5.41E+03		-4.92E+02	2.57E+03
		277.60		14.10	4.37E+03		-3.02E+03	2.07E+03
	AM-241	59.54		35.90	1.63E-01	1.63E-01	-2.19E-02	7.93E-02
+	AM-243	74.67	*	66.00	1.77E-01	1.77E-01	2.60E-01	8.69E-02
	CM-243	209.75		3.29	2.51E+00	6.35E-01	4.14E-02	1.20E+00
		228.14		10.60	7.85E-01		-9.08E-02	3.73E-01
		277.60		14.00	6.35E-01		-4.39E-01	3.00E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-07

FEEBRIS1D-01.024-027

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-01.024-027

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	15	56
17:	56	45	38	46	46	41	33	36
25:	32	45	15	24	19	31	25	23
33:	20	33	26	23	27	21	26	24
41:	27	22	27	34	46	57	50	39
49:	32	23	18	27	33	37	29	30
57:	34	36	41	32	44	61	78	42
65:	38	31	35	32	46	49	44	44
73:	64	70	69	97	72	56	29	40
81:	33	28	45	36	39	39	37	40
89:	46	39	65	87	46	41	32	21
97:	24	19	33	26	20	25	22	22
105:	20	16	32	23	16	26	22	21
113:	33	19	34	21	21	21	22	27
121:	20	22	24	28	22	22	25	30
129:	20	20	15	16	24	17	19	24
137:	24	17	20	25	18	31	24	29
145:	20	23	21	29	18	23	14	24
153:	34	19	22	23	15	14	18	16
161:	24	25	30	27	27	20	12	14
169:	18	24	20	18	31	19	18	19
177:	14	20	28	26	25	14	14	29
185:	36	41	18	21	24	16	14	16
193:	16	19	20	19	18	19	10	24
201:	20	19	18	25	15	14	13	18
209:	15	18	12	18	19	9	11	14
217:	17	13	12	13	18	13	14	18
225:	14	12	14	11	8	18	15	15
233:	18	10	14	21	35	30	23	23
241:	31	21	18	11	21	10	15	15
249:	13	8	13	10	11	17	13	12
257:	10	17	6	15	18	19	11	13
265:	11	8	13	11	10	22	15	10
273:	8	13	9	14	10	11	12	9
281:	13	9	16	17	14	9	6	6
289:	12	7	7	13	22	49	45	21
297:	10	8	15	8	16	8	15	10
305:	7	12	6	9	10	5	12	9
313:	10	15	9	9	9	15	9	11
321:	6	9	10	8	12	8	6	10
329:	8	8	7	13	8	10	12	9
337:	11	20	7	13	6	11	1	7
345:	12	3	10	9	11	30	59	47
353:	23	9	5	6	8	10	7	9
361:	11	6	9	7	13	9	5	6

369:	6	6	8	9	7	7	5	7

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Channel								
377:	15	9	4	6	2	10	10	7
385:	6	8	6	7	11	9	3	5
393:	7	3	8	6	5	11	6	4
401:	8	8	3	6	8	9	10	7
409:	5	1	5	5	8	6	3	3
417:	8	11	6	11	12	10	8	5
425:	9	3	9	4	8	9	4	8
433:	7	6	10	8	5	6	4	4
441:	10	7	9	5	4	5	6	5
449:	3	5	1	6	8	4	3	3
457:	5	3	10	8	1	6	3	8
465:	5	10	2	5	5	8	5	6
473:	7	5	4	7	7	8	8	7
481:	4	2	5	7	6	10	6	6
489:	3	6	6	8	2	6	6	6
497:	6	3	6	6	3	3	4	4
505:	1	1	6	12	15	21	10	12
513:	13	2	1	6	7	4	6	2
521:	7	9	8	2	3	2	7	1
529:	10	6	9	3	2	4	12	5
537:	5	6	4	3	8	5	6	2
545:	8	1	1	2	3	6	5	3
553:	5	5	2	6	1	2	2	6
561:	3	6	5	10	4	3	6	4
569:	4	3	4	3	4	4	2	6
577:	4	5	4	2	6	9	10	5
585:	4	3	4	2	4	2	5	5
593:	4	3	6	4	3	5	7	6
601:	3	6	1	5	4	3	19	38
609:	35	25	7	8	3	4	4	3
617:	4	2	3	3	2	3	3	2
625:	4	1	5	4	6	3	2	4
633:	2	4	2	5	3	0	5	2
641:	2	0	6	2	4	4	3	1
649:	2	2	1	6	1	4	3	1
657:	5	6	3	6	4	7	1	6
665:	7	5	4	2	1	3	5	3
673:	1	5	0	1	3	3	3	3
681:	4	4	1	3	3	4	3	4
689:	2	1	3	0	2	2	8	7
697:	7	4	4	2	1	2	0	5
705:	4	2	3	5	3	9	3	2
713:	2	3	5	5	4	5	4	4
721:	2	1	4	3	3	3	2	2
729:	3	1	2	3	2	4	1	3
737:	1	3	3	2	1	1	3	4
745:	1	2	3	2	1	2	1	2
753:	5	1	1	0	4	2	4	2
761:	1	3	1	4	4	4	6	4
769:	2	1	4	2	0	1	2	2
777:	5	4	7	1	5	2	6	1
785:	2	4	0	3	2	3	1	5
793:	3	7	7	3	3	2	0	2

801:	2	5	2	1	4	3	5	1

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Channel								
809:	5	4	3	4	4	0	2	2
817:	1	3	2	1	4	5	1	4
825:	1	3	1	6	4	1	3	3
833:	1	3	2	5	6	6	0	3
841:	5	5	2	3	3	1	2	1
849:	5	2	0	2	0	0	6	2
857:	0	5	3	0	1	3	3	1
865:	4	3	2	0	3	3	1	2
873:	1	2	4	2	3	2	2	2
881:	2	1	2	2	2	3	2	3
889:	0	3	4	1	2	1	1	0
897:	2	3	4	1	2	3	3	3
905:	1	4	1	3	4	7	6	2
913:	2	1	2	2	2	0	1	2
921:	1	2	0	2	3	1	1	2
929:	0	5	4	0	1	5	2	1
937:	6	2	0	3	0	3	0	3
945:	3	2	4	2	1	2	2	0
953:	4	0	2	2	3	2	3	1
961:	6	2	2	1	4	2	3	4
969:	3	3	2	1	2	1	0	4
977:	2	1	0	3	3	1	2	2
985:	3	2	7	1	2	1	2	1
993:	4	1	1	2	2	3	3	4
1001:	2	0	0	0	3	2	2	1
1009:	2	2	1	2	0	1	2	1
1017:	2	2	1	0	5	4	2	3
1025:	1	7	1	1	0	1	2	0
1033:	0	1	0	0	1	2	1	3
1041:	2	2	4	1	2	3	1	4
1049:	0	1	1	2	2	0	1	3
1057:	1	1	3	1	2	0	3	4
1065:	4	3	1	1	2	1	1	1
1073:	1	1	1	3	2	1	1	1
1081:	0	3	0	2	3	3	2	2
1089:	1	2	1	2	4	1	0	0
1097:	1	0	1	4	0	0	0	1
1105:	1	3	0	4	1	5	2	1
1113:	3	0	1	2	0	3	6	11
1121:	11	2	5	2	0	1	1	3
1129:	3	2	2	1	3	3	1	0
1137:	2	1	1	0	1	0	1	2
1145:	2	1	1	5	1	0	2	1
1153:	2	3	1	0	2	4	0	1
1161:	1	1	5	2	3	0	1	0
1169:	2	3	4	2	3	0	1	3
1177:	0	3	0	2	1	3	2	3
1185:	2	1	0	0	0	3	2	1
1193:	1	4	1	3	1	3	3	2
1201:	3	3	1	0	7	0	2	1
1209:	4	1	1	2	2	2	1	6
1217:	3	2	1	4	2	1	2	1
1225:	1	2	1	5	1	2	2	2

1233:	2	1	3	4	3	3	1	4

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Channel								
1241:	1	2	1	1	2	3	2	1
1249:	0	1	0	0	0	3	1	0
1257:	1	3	2	2	4	1	2	0
1265:	0	1	0	0	1	0	3	0
1273:	2	1	2	3	0	2	0	3
1281:	2	2	2	2	1	0	0	1
1289:	0	1	2	1	0	2	2	0
1297:	0	0	1	1	1	1	0	3
1305:	1	1	1	3	0	1	2	1
1313:	4	1	1	3	1	4	0	1
1321:	1	2	1	2	0	1	0	0
1329:	2	1	0	0	2	0	1	3
1337:	2	2	4	1	2	2	0	0
1345:	1	1	1	0	5	1	1	1
1353:	0	0	1	1	0	0	1	2
1361:	1	2	1	1	0	1	0	2
1369:	0	2	1	0	0	1	0	1
1377:	2	3	2	2	1	1	0	2
1385:	1	2	2	0	2	1	1	0
1393:	1	2	1	1	1	0	0	1
1401:	2	3	0	0	2	0	0	0
1409:	3	0	1	0	0	0	2	0
1417:	1	2	0	1	1	1	2	1
1425:	0	0	2	0	0	3	1	0
1433:	1	1	1	2	3	0	1	1
1441:	0	0	0	3	2	1	0	1
1449:	1	1	0	0	0	0	1	0
1457:	0	3	8	11	11	10	2	1
1465:	1	2	0	1	1	0	1	1
1473:	1	4	1	0	0	0	2	1
1481:	0	0	0	1	1	0	3	1
1489:	0	1	1	0	1	0	2	1
1497:	1	0	1	0	1	0	0	1
1505:	0	2	2	1	2	0	0	0
1513:	1	1	0	0	1	1	2	1
1521:	0	1	1	1	1	0	1	1
1529:	0	0	5	1	1	0	1	1
1537:	1	2	1	0	0	1	0	0
1545:	0	0	2	1	0	0	1	2
1553:	1	0	1	1	0	0	2	0
1561:	1	0	3	0	0	0	0	0
1569:	1	0	0	1	0	0	0	1
1577:	3	1	0	0	1	1	0	1
1585:	0	0	0	1	0	0	0	2
1593:	2	3	0	1	0	0	0	0
1601:	1	0	0	0	0	0	0	2
1609:	2	0	1	0	1	1	1	0
1617:	2	1	1	0	0	0	0	0
1625:	0	0	1	0	0	1	1	0
1633:	0	0	0	0	0	0	0	0
1641:	0	1	2	0	0	1	1	2
1649:	0	1	0	1	0	2	0	1
1657:	0	0	0	1	1	1	0	1

1665:	0	1	0	0	2	0	1	0

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Channel								
1673:	0	0	0	0	1	1	0	1
1681:	0	2	1	0	0	1	0	0
1689:	1	0	0	1	0	0	2	1
1697:	0	0	1	0	0	0	1	0
1705:	0	0	0	0	1	0	0	0
1713:	0	0	0	1	0	1	0	0
1721:	0	0	1	0	1	0	0	1
1729:	0	0	0	1	0	0	0	0
1737:	0	0	0	1	5	0	1	1
1745:	0	0	0	0	0	0	0	1
1753:	1	1	1	0	2	0	1	0
1761:	2	0	5	4	5	2	2	1
1769:	0	0	1	0	2	0	1	0
1777:	1	0	0	0	0	1	0	0
1785:	0	2	0	1	1	1	0	1
1793:	1	0	0	0	2	1	0	0
1801:	1	0	0	1	0	0	0	1
1809:	0	0	0	2	1	0	1	0
1817:	0	0	0	0	1	1	1	0
1825:	1	1	2	1	1	0	1	0
1833:	0	0	0	0	0	1	1	1
1841:	0	1	0	1	1	0	1	3
1849:	0	1	0	3	0	0	0	0
1857:	0	0	0	0	0	3	0	0
1865:	0	0	0	0	0	0	1	1
1873:	0	0	0	0	0	0	0	0
1881:	0	1	0	1	0	1	0	1
1889:	0	0	0	0	0	1	0	1
1897:	0	0	1	0	0	0	1	1
1905:	0	1	1	1	0	2	0	1
1913:	1	1	2	0	0	1	0	1
1921:	0	0	0	0	0	1	0	0
1929:	0	0	0	0	0	0	0	1
1937:	0	1	0	1	1	0	0	0
1945:	0	1	1	0	0	0	0	1
1953:	1	0	0	0	2	0	1	0
1961:	0	0	1	1	2	0	0	0
1969:	0	0	0	1	1	0	1	0
1977:	0	0	0	0	0	0	0	0
1985:	1	0	0	0	0	0	0	0
1993:	0	0	1	0	0	2	0	0
2001:	0	1	0	0	0	2	0	0
2009:	0	1	0	0	0	0	0	0
2017:	1	0	0	0	2	0	1	1
2025:	0	1	0	0	0	0	1	0
2033:	0	0	1	1	0	0	0	0
2041:	0	0	0	0	0	0	0	2
2049:	0	1	0	1	1	0	0	0
2057:	0	1	0	0	0	0	0	0
2065:	1	0	2	0	0	0	0	0
2073:	0	0	0	2	2	1	0	1
2081:	0	0	0	0	0	1	0	1
2089:	0	1	1	0	0	0	1	0

2097:	0	0	0	0	1	0	0	4

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Channel								
2105:	0	0	0	0	0	0	0	0
2113:	1	0	0	0	0	1	0	0
2121:	0	1	1	0	0	1	0	0
2129:	0	0	0	0	0	1	0	0
2137:	1	0	1	0	0	0	0	0
2145:	0	0	0	1	0	0	0	0
2153:	0	1	0	0	0	0	0	0
2161:	0	0	0	0	0	0	0	0
2169:	0	0	0	2	0	1	1	1
2177:	0	0	1	0	0	0	0	0
2185:	0	0	0	0	0	0	0	0
2193:	1	0	0	0	0	0	0	0
2201:	1	1	2	1	0	1	0	0
2209:	0	1	0	2	0	1	0	0
2217:	0	0	1	0	0	0	0	0
2225:	1	0	0	0	0	0	0	0
2233:	0	0	1	0	0	0	1	0
2241:	0	0	0	0	0	0	0	0
2249:	0	0	0	1	0	0	1	0
2257:	0	0	0	0	0	0	1	1
2265:	0	1	0	0	0	1	0	1
2273:	0	0	0	0	0	0	0	0
2281:	0	0	0	1	0	0	1	0
2289:	0	1	0	0	0	2	0	0
2297:	0	0	0	1	0	0	0	0
2305:	0	0	0	1	0	0	0	0
2313:	0	0	0	0	0	1	2	0
2321:	2	0	1	0	0	0	0	0
2329:	0	0	1	0	0	0	1	0
2337:	0	0	1	1	0	0	0	0
2345:	0	0	0	1	1	1	1	0
2353:	0	1	0	0	0	0	0	0
2361:	1	0	1	1	0	1	1	0
2369:	0	0	1	0	0	0	0	0
2377:	1	0	0	0	1	1	0	1
2385:	0	0	0	1	0	1	0	0
2393:	0	0	0	0	0	0	0	0
2401:	0	1	0	0	0	0	0	0
2409:	2	1	0	0	0	0	0	0
2417:	0	1	1	0	0	0	1	0
2425:	0	1	0	0	0	1	1	0
2433:	0	2	0	0	0	0	0	1
2441:	1	0	0	0	0	0	0	0
2449:	0	0	0	0	1	0	0	0
2457:	0	0	0	0	0	0	0	0
2465:	0	0	0	0	0	0	0	1
2473:	0	0	0	0	0	0	0	0
2481:	0	0	1	0	0	0	0	0
2489:	1	0	0	1	0	0	0	0
2497:	0	0	0	0	1	0	0	0
2505:	0	0	0	0	0	0	0	0
2513:	0	0	0	0	0	0	2	0
2521:	0	0	1	0	1	0	0	1

2529:	0	0	0	0	0	0	0	0

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Channel								
2537:	0	1	0	0	0	0	0	0
2545:	0	0	1	0	1	0	0	0
2553:	0	0	0	0	1	0	0	1
2561:	0	1	0	0	0	0	0	0
2569:	0	1	1	0	0	0	0	0
2577:	0	0	0	0	0	0	1	0
2585:	0	0	0	0	1	0	0	0
2593:	1	0	0	0	0	0	0	0
2601:	0	0	0	0	0	1	1	0
2609:	1	0	0	0	1	0	1	0
2617:	0	0	1	0	0	2	0	0
2625:	0	0	0	1	0	1	0	1
2633:	0	0	0	0	0	0	0	1
2641:	0	0	0	0	1	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	0	0	0	0	1	0	0
2665:	0	0	0	1	0	0	0	0
2673:	1	1	0	0	0	0	1	0
2681:	0	0	0	1	0	0	0	0
2689:	0	1	0	0	0	0	0	0
2697:	1	0	0	0	0	0	0	1
2705:	0	0	0	0	0	0	1	0
2713:	0	0	0	0	2	1	0	0
2721:	0	0	0	0	0	0	0	1
2729:	0	0	0	0	0	0	0	1
2737:	0	0	0	0	1	0	0	0
2745:	0	1	0	0	0	0	1	1
2753:	0	0	1	0	0	1	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	1	0	1	0
2801:	0	0	0	2	0	0	1	0
2809:	0	1	0	0	0	0	0	0
2817:	0	0	0	0	0	1	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	1	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	1	0	0	0	1	0	1	1
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	1	0	1	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	1	0	0
2905:	1	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	1	0	0
2937:	0	1	0	0	0	0	0	1
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	1	0

2961:	0	0	0	0	0	0	0	0

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Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	1	0	1	0	1	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	1	2
3049:	0	0	0	0	1	0	0	1
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	1	0
3089:	0	0	0	1	0	0	0	0
3097:	0	1	0	0	1	0	0	1
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	2	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	1	0	0	0
3137:	0	0	0	1	0	0	0	0
3145:	0	0	0	0	0	0	1	0
3153:	0	0	1	0	1	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	1	0	1	1	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	1
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	1	0	0	0
3217:	0	0	0	0	0	1	0	1
3225:	0	0	0	0	0	1	0	0
3233:	1	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	1	0	0	0	0	0	0	0
3257:	0	0	1	1	0	0	1	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	1	0	0	1
3297:	0	1	0	0	0	0	0	1
3305:	1	0	0	0	0	0	0	2
3313:	1	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	1	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	1	0	0	1	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	1	1	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	1	1	0	0	0	1
3385:	0	1	0	0	0	0	0	0

3393:	2	0	1	0	0	0	0	0

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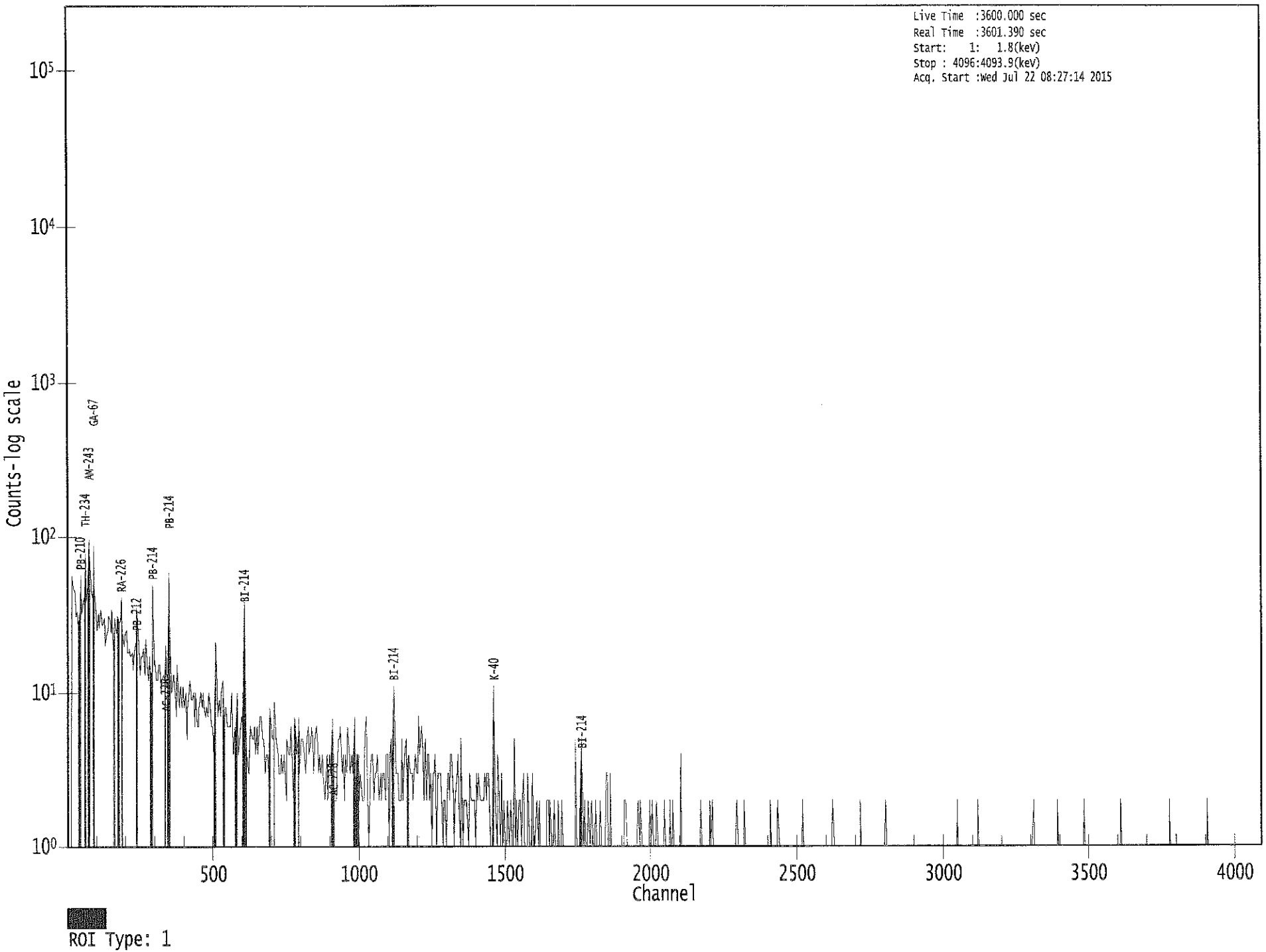
Channel							
3401:	1	0	0	0	1	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	1
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	1	1	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	1	0	0	0	0	0
3457:	0	0	0	1	0	0	0	1
3465:	0	0	1	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	2	1	0	1	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	1	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	1	0	0	0	0	0
3537:	0	0	0	0	0	0	1	0
3545:	0	0	0	1	0	0	0	0
3553:	0	0	0	0	0	0	1	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	1	0	0	0	1
3577:	0	0	0	1	0	0	0	0
3585:	0	0	0	0	0	0	1	0
3593:	0	0	1	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	2	0	0	0	1	0	0
3617:	1	0	1	0	0	0	1	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	1	0	0	0	0	0
3665:	0	1	0	0	0	0	0	0
3673:	0	1	0	0	0	0	0	0
3681:	1	0	0	0	0	0	0	0
3689:	0	1	0	0	0	0	0	1
3697:	0	0	1	0	0	0	0	0
3705:	0	0	0	0	0	1	0	1
3713:	0	0	0	0	0	0	0	1
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	1	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	1	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	2	0	0	0	0	0	0	0
3785:	0	1	1	0	0	0	1	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	1	0	0	1
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	1	0	0	0	0

Sample Title: FEEBRIS1D-01.024-027

Channel							
3833:	1	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	1	0	0	1	0	0	0	0
3857:	0	0	0	0	0	0	1	0
3865:	0	0	0	0	1	0	0	1
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	1	0	0	1
3889:	1	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	2	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	1	0	0	0	0	0	0	0
3929:	0	1	0	0	0	0	0	0
3937:	0	1	0	0	0	0	0	0
3945:	1	0	0	0	0	0	0	1
3953:	0	0	0	1	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	1	1	0	0	1	0
4017:	1	0	0	0	0	0	0	0
4025:	1	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	1	1	1	0	1	1
4065:	0	0	0	1	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	1

0000024972.CNF



KB 7/22/15 KB 7/22/15

Apex-Gamma

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-08
Sample Description	: FEEBRIS1D-02.027-030
Sample Type	: SOIL
Sample Size	: 2.841E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:39:05AM
Acquisition Started	: 7/22/2015 9:29:14AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.8 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24976

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/24/15

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 10:29:27AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	76.48	76.57	0.0000	0.00
2	94.32	94.39	0.0000	0.00
3	128.64	128.70	0.0000	0.00
4	164.09	164.13	0.0000	0.00
5	185.98	186.01	0.0000	0.00
6	208.57	208.59	0.0000	0.00
7	228.26	228.26	0.0000	0.00
8	238.81	238.81	0.0000	0.00
9	242.24	242.23	0.0000	0.00
10	270.72	270.70	0.0000	0.00
11	295.15	295.12	0.0000	0.00
12	300.17	300.14	0.0000	0.00
13	338.75	338.69	0.0000	0.00
14	351.94	351.87	0.0000	0.00
15	366.30	366.23	0.0000	0.00
16	418.81	418.71	0.0000	0.00
17	583.36	583.18	0.0000	0.00
18	609.57	609.37	0.0000	0.00
19	662.94	662.72	0.0000	0.00
20	706.41	706.17	0.0000	0.00
21	743.08	742.82	0.0000	0.00
22	768.36	768.10	0.0000	0.00
23	911.47	911.14	0.0000	0.00
24	920.99	920.66	0.0000	0.00
25	976.35	975.99	0.0000	0.00
26	993.18	992.82	0.0000	0.00
27	1002.92	1002.56	0.0000	0.00
28	1008.36	1008.00	0.0000	0.00
29	1119.98	1119.57	0.0000	0.00
30	1141.17	1140.76	0.0000	0.00
31	1238.48	1238.03	0.0000	0.00
32	1255.88	1255.43	0.0000	0.00
33	1318.83	1318.35	0.0000	0.00
34	1447.68	1447.16	0.0000	0.00
35	1461.16	1460.64	0.0000	0.00
36	1524.60	1524.06	0.0000	0.00
37	1557.75	1557.20	0.0000	0.00
38	1608.61	1608.04	0.0000	0.00
39	1631.80	1631.22	0.0000	0.00
40	1728.15	1727.55	0.0000	0.00
41	1764.54	1763.93	0.0000	0.00
42	1848.23	1847.60	0.0000	0.00

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	2115.42	2114.75	0.0000	0.00
44	2127.82	2127.14	0.0000	0.00
45	2204.60	2203.90	0.0000	0.00
46	2243.25	2242.56	0.0000	0.00
47	2282.57	2281.87	0.0000	0.00
48	2446.23	2445.50	0.0000	0.00
49	2614.20	2613.46	0.0000	0.00
50	2862.73	2861.98	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:29:27AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	76.48	72 -	81	76.57	4.45E+02	90.23	9.06E+02	3.73
	2	94.32	90 -	103	94.39	2.45E+02	105.90	1.03E+03	1.50
	3	128.64	126 -	131	128.70	3.83E+01	42.90	3.39E+02	2.55
	4	164.09	161 -	168	164.13	4.44E+01	49.52	3.77E+02	3.21
	5	185.98	182 -	189	186.01	1.23E+02	50.52	3.43E+02	1.59
	6	208.57	205 -	211	208.59	4.84E+01	43.61	3.09E+02	2.33
	7	228.26	226 -	230	228.26	2.65E+01	28.28	1.53E+02	2.58
M	8	238.81	234 -	247	238.81	2.91E+02	44.74	1.89E+02	1.55
m	9	242.24	234 -	247	242.23	6.89E+01	33.85	1.53E+02	1.56
	10	270.72	268 -	274	270.70	3.80E+01	34.31	1.88E+02	1.97
M	11	295.15	291 -	305	295.12	1.36E+02	31.24	1.12E+02	1.50
m	12	300.17	291 -	305	300.14	2.54E+01	26.90	1.33E+02	1.50
	13	338.75	335 -	343	338.69	7.80E+01	38.50	1.80E+02	2.04
	14	351.94	349 -	355	351.87	2.53E+02	42.07	1.39E+02	1.45
	15	366.30	363 -	369	366.23	2.58E+01	29.43	1.36E+02	1.26
	16	418.81	416 -	422	418.71	2.49E+01	24.71	9.01E+01	4.27
	17	583.36	579 -	587	583.18	8.40E+01	29.40	8.19E+01	2.69
	18	609.57	604 -	613	609.37	1.87E+02	39.85	1.21E+02	2.09
	19	662.94	656 -	668	662.72	3.38E+01	32.78	1.10E+02	6.43
	20	706.41	703 -	711	706.17	2.01E+01	23.49	7.39E+01	1.52
	21	743.08	740 -	745	742.82	2.09E+01	17.41	4.21E+01	2.98
	22	768.36	765 -	771	768.10	2.75E+01	17.97	3.90E+01	2.07
	23	911.47	905 -	916	911.14	7.10E+01	28.50	6.60E+01	1.89
	24	920.99	916 -	925	920.66	2.17E+01	20.83	4.87E+01	1.54
m	25	976.35	965 -	979	975.99	1.01E+01	19.90	3.74E+01	3.22
M	26	993.18	989 -	1014	992.82	1.73E+01	12.96	9.47E+00	2.68
m	27	1002.92	989 -	1014	1002.56	1.28E+01	12.00	1.26E+01	2.68
m	28	1008.36	989 -	1014	1008.00	1.30E+01	10.34	1.07E+01	2.02
	29	1119.98	1116 -	1123	1119.57	4.05E+01	19.49	3.70E+01	1.78
	30	1141.17	1135 -	1145	1140.76	2.72E+01	17.76	2.76E+01	6.71
	31	1238.48	1234 -	1243	1238.03	3.10E+01	18.28	3.00E+01	1.24
	32	1255.88	1252 -	1260	1255.43	2.19E+01	15.40	2.43E+01	4.84
	33	1318.83	1314 -	1323	1318.35	1.41E+01	16.31	2.97E+01	4.28
	34	1447.68	1444 -	1451	1447.16	7.46E+00	10.00	1.11E+01	1.11
	35	1461.16	1454 -	1465	1460.64	2.43E+02	33.41	1.86E+01	2.68
	36	1524.60	1520 -	1528	1524.06	1.16E+01	8.73	4.79E+00	5.17
	37	1557.75	1553 -	1562	1557.20	1.02E+01	8.77	5.54E+00	2.65
	38	1608.61	1606 -	1610	1608.04	7.00E+00	6.18	2.00E+00	2.84
	39	1631.80	1628 -	1634	1631.22	8.00E+00	9.21	8.00E+00	2.82
	40	1728.15	1723 -	1730	1727.55	7.80E+00	7.48	4.40E+00	1.39

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1764.54	1759 -	1768	1763.93	4.31E+01	15.56	9.75E+00	1.66
42	1848.23	1845 -	1850	1847.60	7.33E+00	6.71	3.33E+00	2.90
43	2115.42	2112 -	2117	2114.75	4.42E+00	5.74	3.17E+00	2.56
44	2127.82	2124 -	2130	2127.14	7.00E+00	5.29	0.00E+00	2.99
45	2204.60	2199 -	2208	2203.90	1.86E+01	10.44	4.71E+00	2.71
46	2243.25	2238 -	2246	2242.56	9.00E+00	6.00	0.00E+00	1.77
47	2282.57	2279 -	2284	2281.87	4.58E+00	5.74	2.83E+00	2.72
48	2446.23	2442 -	2449	2445.50	1.00E+01	6.32	0.00E+00	4.66
49	2614.20	2607 -	2617	2613.46	3.98E+01	14.08	4.50E+00	2.66
50	2862.73	2857 -	2865	2861.98	5.07E+00	6.95	3.86E+00	1.85

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:29:27AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	76.48	72 -	81	4.45E+02	90.23	9.06E+02	6.56E+01
	2	94.32	90 -	103	2.45E+02	105.90	1.03E+03	3.48E+01
	3	128.64	126 -	131	3.83E+01	42.90	3.39E+02	3.38E+01
	4	164.09	161 -	168	4.44E+01	49.52	3.77E+02	3.92E+01
	5	185.98	182 -	189	1.23E+02	50.52	3.43E+02	3.73E+01
	6	208.57	205 -	211	4.84E+01	43.61	3.09E+02	3.40E+01
	7	228.26	226 -	230	2.65E+01	28.28	1.53E+02	2.16E+01
M	8	238.81	234 -	247	2.91E+02	44.74	1.89E+02	2.26E+01
m	9	242.24	234 -	247	6.89E+01	33.85	1.53E+02	2.04E+01
	10	270.72	268 -	274	3.80E+01	34.31	1.88E+02	2.63E+01
M	11	295.15	291 -	305	1.36E+02	31.24	1.12E+02	1.74E+01
m	12	300.17	291 -	305	2.54E+01	26.90	1.33E+02	1.90E+01
	13	338.75	335 -	343	7.80E+01	38.50	1.80E+02	2.81E+01
	14	351.94	349 -	355	2.53E+02	42.07	1.39E+02	2.26E+01
	15	366.30	363 -	369	2.58E+01	29.43	1.36E+02	2.27E+01
	16	418.81	416 -	422	2.49E+01	24.71	9.01E+01	1.86E+01
	17	583.36	579 -	587	8.40E+01	29.40	8.19E+01	1.89E+01

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	18	609.57	604 -	613	1.87E+02	39.85	1.21E+02	2.38E+01
	19	662.94	656 -	668	3.38E+01	32.78	1.10E+02	2.52E+01
	20	706.41	703 -	711	2.01E+01	23.49	7.39E+01	1.79E+01
	21	743.08	740 -	745	2.09E+01	17.41	4.21E+01	1.22E+01
	22	768.36	765 -	771	2.75E+01	17.97	3.90E+01	1.20E+01
	23	911.47	905 -	916	7.10E+01	28.50	6.60E+01	1.89E+01
	24	920.99	916 -	925	2.17E+01	20.83	4.87E+01	1.53E+01
m	25	976.35	965 -	979	1.01E+01	19.90	3.74E+01	1.01E+01
M	26	993.18	989 -	1014	1.73E+01	12.96	9.47E+00	5.06E+00
m	27	1002.92	989 -	1014	1.28E+01	12.00	1.26E+01	5.83E+00
m	28	1008.36	989 -	1014	1.30E+01	10.34	1.07E+01	5.37E+00
	29	1119.98	1116 -	1123	4.05E+01	19.49	3.70E+01	1.21E+01
	30	1141.17	1135 -	1145	2.72E+01	17.76	2.76E+01	1.18E+01
	31	1238.48	1234 -	1243	3.10E+01	18.28	3.00E+01	1.19E+01
	32	1255.88	1252 -	1260	2.19E+01	15.40	2.43E+01	1.01E+01
	33	1318.83	1314 -	1323	1.41E+01	16.31	2.97E+01	1.19E+01
	34	1447.68	1444 -	1451	7.46E+00	10.00	1.11E+01	6.88E+00
	35	1461.16	1454 -	1465	2.43E+02	33.41	1.86E+01	9.90E+00
	36	1524.60	1520 -	1528	1.16E+01	8.73	4.79E+00	4.49E+00
	37	1557.75	1553 -	1562	1.02E+01	8.77	5.54E+00	4.94E+00
	38	1608.61	1606 -	1610	7.00E+00	6.18	2.00E+00	2.63E+00
	39	1631.80	1628 -	1634	8.00E+00	9.21	8.00E+00	5.97E+00
	40	1728.15	1723 -	1730	7.80E+00	7.48	4.40E+00	4.09E+00
	41	1764.54	1759 -	1768	4.31E+01	15.56	9.75E+00	6.85E+00
	42	1848.23	1845 -	1850	7.33E+00	6.71	3.33E+00	3.25E+00
	43	2115.42	2112 -	2117	4.42E+00	5.74	3.17E+00	3.22E+00
	44	2127.82	2124 -	2130	7.00E+00	5.29	0.00E+00	0.00E+00
	45	2204.60	2199 -	2208	1.86E+01	10.44	4.71E+00	4.82E+00
	46	2243.25	2238 -	2246	9.00E+00	6.00	0.00E+00	0.00E+00
	47	2282.57	2279 -	2284	4.58E+00	5.74	2.83E+00	3.15E+00
	48	2446.23	2442 -	2449	1.00E+01	6.32	0.00E+00	0.00E+00
	49	2614.20	2607 -	2617	3.98E+01	14.08	4.50E+00	5.15E+00
	50	2862.73	2857 -	2865	5.07E+00	6.95	3.86E+00	4.35E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 10:29:27AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	76.48	72 -	81	76.57	4.45E+02	90.23	9.06E+02	.....
	2	94.32	90 -	103	94.39	2.45E+02	105.90	1.03E+03	.....
	3	128.64	126 -	131	128.70	3.83E+01	42.90	3.39E+02	.....
	4	164.09	161 -	168	164.13	4.44E+01	49.52	3.77E+02	CS-136 U-235
	5	185.98	182 -	189	186.01	1.23E+02	50.52	3.43E+02	RA-226
	6	208.57	205 -	211	208.59	4.84E+01	43.61	3.09E+02	GA-67
	7	228.26	226 -	230	228.26	2.65E+01	28.28	1.53E+02	NP-239 TE-132 CM-243
M	8	238.81	234 -	247	238.81	2.91E+02	44.74	1.89E+02	PB-212
m	9	242.24	234 -	247	242.23	6.89E+01	33.85	1.53E+02	.....
	10	270.72	268 -	274	270.70	3.80E+01	34.31	1.88E+02	.....
M	11	295.15	291 -	305	295.12	1.36E+02	31.24	1.12E+02	PB-214
m	12	300.17	291 -	305	300.14	2.54E+01	26.90	1.33E+02	GA-67 PB-212 BI-210M
	13	338.75	335 -	343	338.69	7.80E+01	38.50	1.80E+02	AC-228
	14	351.94	349 -	355	351.87	2.53E+02	42.07	1.39E+02	PB-214
	15	366.30	363 -	369	366.23	2.58E+01	29.43	1.36E+02	.....
	16	418.81	416 -	422	418.71	2.49E+01	24.71	9.01E+01	.....
	17	583.36	579 -	587	583.18	8.40E+01	29.40	8.19E+01	TL-208
	18	609.57	604 -	613	609.37	1.87E+02	39.85	1.21E+02	BI-214
	19	662.94	656 -	668	662.72	3.38E+01	32.78	1.10E+02	.....
	20	706.41	703 -	711	706.17	2.01E+01	23.49	7.39E+01	AG-110M
	21	743.08	740 -	745	742.82	2.09E+01	17.41	4.21E+01	.....
	22	768.36	765 -	771	768.10	2.75E+01	17.97	3.90E+01	.....
	23	911.47	905 -	916	911.14	7.10E+01	28.50	6.60E+01	AC-228 LU-172
	24	920.99	916 -	925	920.66	2.17E+01	20.83	4.87E+01	.....
m	25	976.35	965 -	979	975.99	1.01E+01	19.90	3.74E+01	.....
M	26	993.18	989 -	1014	992.82	1.73E+01	12.96	9.47E+00	.....
m	27	1002.92	989 -	1014	1002.56	1.28E+01	12.00	1.26E+01	.....
m	28	1008.36	989 -	1014	1008.00	1.30E+01	10.34	1.07E+01	.....
	29	1119.98	1116 -	1123	1119.57	4.05E+01	19.49	3.70E+01	BI-214 SC-46
	30	1141.17	1135 -	1145	1140.76	2.72E+01	17.76	2.76E+01	.....
	31	1238.48	1234 -	1243	1238.03	3.10E+01	18.28	3.00E+01	CO-56
	32	1255.88	1252 -	1260	1255.43	2.19E+01	15.40	2.43E+01	.....
	33	1318.83	1314 -	1323	1318.35	1.41E+01	16.31	2.97E+01	.....
	34	1447.68	1444 -	1451	1447.16	7.46E+00	10.00	1.11E+01	.....

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
35	1461.16	1454 -	1465	1460.64	2.43E+02	33.41	1.86E+01	K-40
36	1524.60	1520 -	1528	1524.06	1.16E+01	8.73	4.79E+00	.....
37	1557.75	1553 -	1562	1557.20	1.02E+01	8.77	5.54E+00	.....
38	1608.61	1606 -	1610	1608.04	7.00E+00	6.18	2.00E+00	.....
39	1631.80	1628 -	1634	1631.22	8.00E+00	9.21	8.00E+00	.....
40	1728.15	1723 -	1730	1727.55	7.80E+00	7.48	4.40E+00	.....
41	1764.54	1759 -	1768	1763.93	4.31E+01	15.56	9.75E+00	BI-214
42	1848.23	1845 -	1850	1847.60	7.33E+00	6.71	3.33E+00	.....
43	2115.42	2112 -	2117	2114.75	4.42E+00	5.74	3.17E+00	.....
44	2127.82	2124 -	2130	2127.14	7.00E+00	5.29	0.00E+00	.....
45	2204.60	2199 -	2208	2203.90	1.86E+01	10.44	4.71E+00	BI-214
46	2243.25	2238 -	2246	2242.56	9.00E+00	6.00	0.00E+00	.....
47	2282.57	2279 -	2284	2281.87	4.58E+00	5.74	2.83E+00	.....
48	2446.23	2442 -	2449	2445.50	1.00E+01	6.32	0.00E+00	.....
49	2614.20	2607 -	2617	2613.46	3.98E+01	14.08	4.50E+00	TL-208
50	2862.73	2857 -	2865	2861.98	5.07E+00	6.95	3.86E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 10:29:27AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	76.48	4.45E+02	90.23	2.74E-02	3.36E-03
	2	94.32	2.45E+02	105.90	2.85E-02	4.22E-03
	3	128.64	3.83E+01	42.90	2.61E-02	2.79E-03
	4	164.09	4.44E+01	49.52	2.28E-02	1.73E-03
	5	185.98	1.23E+02	50.52	2.11E-02	1.65E-03
	6	208.57	4.84E+01	43.61	1.96E-02	1.63E-03
	7	228.26	2.65E+01	28.28	1.84E-02	1.61E-03
M	8	238.81	2.91E+02	44.74	1.79E-02	1.60E-03
m	9	242.24	6.89E+01	33.85	1.77E-02	1.60E-03
	10	270.72	3.80E+01	34.31	1.64E-02	1.57E-03
M	11	295.15	1.36E+02	31.24	1.55E-02	1.48E-03
m	12	300.17	2.54E+01	26.90	1.53E-02	1.46E-03
	13	338.75	7.80E+01	38.50	1.41E-02	1.27E-03
	14	351.94	2.53E+02	42.07	1.37E-02	1.21E-03

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	15	366.30	2.58E+01	29.43	1.33E-02	1.14E-03
	16	418.81	2.49E+01	24.71	1.22E-02	9.92E-04
	17	583.36	8.40E+01	29.40	9.58E-03	8.25E-04
	18	609.57	1.87E+02	39.85	9.27E-03	7.98E-04
	19	662.94	3.38E+01	32.78	8.69E-03	7.44E-04
	20	706.41	2.01E+01	23.49	8.27E-03	7.16E-04
	21	743.08	2.09E+01	17.41	7.95E-03	6.93E-04
	22	768.36	2.75E+01	17.97	7.74E-03	6.77E-04
	23	911.47	7.10E+01	28.50	6.74E-03	5.86E-04
	24	920.99	2.17E+01	20.83	6.69E-03	5.82E-04
m	25	976.35	1.01E+01	19.90	6.38E-03	5.53E-04
M	26	993.18	1.73E+01	12.96	6.29E-03	5.45E-04
m	27	1002.92	1.28E+01	12.00	6.24E-03	5.40E-04
m	28	1008.36	1.30E+01	10.34	6.21E-03	5.37E-04
	29	1119.98	4.05E+01	19.49	5.70E-03	4.80E-04
	30	1141.17	2.72E+01	17.76	5.62E-03	4.69E-04
	31	1238.48	3.10E+01	18.28	5.27E-03	4.83E-04
	32	1255.88	2.19E+01	15.40	5.21E-03	4.91E-04
	33	1318.83	1.41E+01	16.31	5.03E-03	5.20E-04
	34	1447.68	7.46E+00	10.00	4.70E-03	4.79E-04
	35	1461.16	2.43E+02	33.41	4.67E-03	4.73E-04
	36	1524.60	1.16E+01	8.73	4.54E-03	4.47E-04
	37	1557.75	1.02E+01	8.77	4.48E-03	4.33E-04
	38	1608.61	7.00E+00	6.18	4.40E-03	4.12E-04
	39	1631.80	8.00E+00	9.21	4.36E-03	4.02E-04
	40	1728.15	7.80E+00	7.48	4.23E-03	3.63E-04
	41	1764.54	4.31E+01	15.56	4.19E-03	3.47E-04
	42	1848.23	7.33E+00	6.71	4.10E-03	3.18E-04
	43	2115.42	4.42E+00	5.74	3.95E-03	3.18E-04
	44	2127.82	7.00E+00	5.29	3.94E-03	3.18E-04
	45	2204.60	1.86E+01	10.44	3.93E-03	3.18E-04
	46	2243.25	9.00E+00	6.00	3.93E-03	3.18E-04
	47	2282.57	4.58E+00	5.74	3.93E-03	3.18E-04
	48	2446.23	1.00E+01	6.32	3.96E-03	3.18E-04
	49	2614.20	3.98E+01	14.08	4.05E-03	3.18E-04
	50	2862.73	5.07E+00	6.95	4.28E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 10:29:27AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	76.48	4.45E+02	90.23			4.45E+02	9.02E+01
	2	94.32	2.45E+02	105.90			2.45E+02	1.06E+02
	3	128.64	3.83E+01	42.90			3.83E+01	4.29E+01
	4	164.09	4.44E+01	49.52			4.44E+01	4.95E+01
	5	185.98	1.23E+02	50.52	4.79E+01	7.81E+00	7.48E+01	5.11E+01
	6	208.57	4.84E+01	43.61			4.84E+01	4.36E+01
	7	228.26	2.65E+01	28.28			2.65E+01	2.83E+01
M	8	238.81	2.91E+02	44.74	2.21E+01	3.31E+00	2.69E+02	4.49E+01
m	9	242.24	6.89E+01	33.85	7.15E+00	2.42E+00	6.17E+01	3.39E+01
	10	270.72	3.80E+01	34.31			3.80E+01	3.43E+01
M	11	295.15	1.36E+02	31.24	1.30E+01	5.93E+00	1.23E+02	3.18E+01
m	12	300.17	2.54E+01	26.90			2.54E+01	2.69E+01
	13	338.75	7.80E+01	38.50			7.80E+01	3.85E+01
	14	351.94	2.53E+02	42.07	1.67E+01	5.59E+00	2.37E+02	4.24E+01
	15	366.30	2.58E+01	29.43			2.58E+01	2.94E+01
	16	418.81	2.49E+01	24.71			2.49E+01	2.47E+01
	17	583.36	8.40E+01	29.40	7.99E+00	3.88E+00	7.61E+01	2.97E+01
	18	609.57	1.87E+02	39.85	1.77E+01	8.73E+00	1.69E+02	4.08E+01
	19	662.94	3.38E+01	32.78	6.25E+00	3.54E+00	2.76E+01	3.30E+01
	20	706.41	2.01E+01	23.49			2.01E+01	2.35E+01
	21	743.08	2.09E+01	17.41			2.09E+01	1.74E+01
	22	768.36	2.75E+01	17.97			2.75E+01	1.80E+01
	23	911.47	7.10E+01	28.50	3.66E+00	2.67E+00	6.73E+01	2.86E+01
	24	920.99	2.17E+01	20.83			2.17E+01	2.08E+01
m	25	976.35	1.01E+01	19.90			1.01E+01	1.99E+01
M	26	993.18	1.73E+01	12.96			1.73E+01	1.30E+01
m	27	1002.92	1.28E+01	12.00			1.28E+01	1.20E+01
m	28	1008.36	1.30E+01	10.34			1.30E+01	1.03E+01
	29	1119.98	4.05E+01	19.49	5.40E+00	2.54E+00	3.51E+01	1.97E+01
	30	1141.17	2.72E+01	17.76			2.72E+01	1.78E+01
	31	1238.48	3.10E+01	18.28	1.40E+00	2.38E+00	2.96E+01	1.84E+01
	32	1255.88	2.19E+01	15.40			2.19E+01	1.54E+01
	33	1318.83	1.41E+01	16.31			1.41E+01	1.63E+01
	34	1447.68	7.46E+00	10.00			7.46E+00	1.00E+01
	35	1461.16	2.43E+02	33.41	1.02E+01	2.32E+00	2.33E+02	3.35E+01
	36	1524.60	1.16E+01	8.73			1.16E+01	8.73E+00
	37	1557.75	1.02E+01	8.77			1.02E+01	8.77E+00
	38	1608.61	7.00E+00	6.18			7.00E+00	6.18E+00
	39	1631.80	8.00E+00	9.21			8.00E+00	9.21E+00
	40	1728.15	7.80E+00	7.48			7.80E+00	7.48E+00
	41	1764.54	4.31E+01	15.56	4.45E+00	2.04E+00	3.87E+01	1.57E+01
	42	1848.23	7.33E+00	6.71			7.33E+00	6.71E+00
	43	2115.42	4.42E+00	5.74			4.42E+00	5.74E+00
	44	2127.82	7.00E+00	5.29			7.00E+00	5.29E+00
	45	2204.60	1.86E+01	10.44	2.10E+00	1.24E+00	1.65E+01	1.05E+01
	46	2243.25	9.00E+00	6.00			9.00E+00	6.00E+00
	47	2282.57	4.58E+00	5.74			4.58E+00	5.74E+00
	48	2446.23	1.00E+01	6.32			1.00E+01	6.32E+00
	49	2614.20	3.98E+01	14.08	6.29E+00	1.69E+00	3.35E+01	1.42E+01
	50	2862.73	5.07E+00	6.95			5.07E+00	6.95E+00

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 10:29:27AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	76.48	4.45E+02	90.23			4.45E+02	9.02E+01
	2	94.32	2.45E+02	105.90			2.45E+02	1.06E+02
	3	128.64	3.83E+01	42.90			3.83E+01	4.29E+01
	4	164.09	4.44E+01	49.52			4.44E+01	4.95E+01
	5	185.98	1.23E+02	50.52	4.79E+01	7.81E+00	7.48E+01	5.11E+01
	6	208.57	4.84E+01	43.61			4.84E+01	4.36E+01
	7	228.26	2.65E+01	28.28			2.65E+01	2.83E+01
M	8	238.81	2.91E+02	44.74	2.21E+01	3.31E+00	2.69E+02	4.49E+01
m	9	242.24	6.89E+01	33.85	7.15E+00	2.42E+00	6.17E+01	3.39E+01
	10	270.72	3.80E+01	34.31			3.80E+01	3.43E+01
M	11	295.15	1.36E+02	31.24	1.30E+01	5.93E+00	1.23E+02	3.18E+01
m	12	300.17	2.54E+01	26.90			2.54E+01	2.69E+01
	13	338.75	7.80E+01	38.50			7.80E+01	3.85E+01
	14	351.94	2.53E+02	42.07	1.67E+01	5.59E+00	2.37E+02	4.24E+01
	15	366.30	2.58E+01	29.43			2.58E+01	2.94E+01
	16	418.81	2.49E+01	24.71			2.49E+01	2.47E+01
	17	583.36	8.40E+01	29.40	7.99E+00	3.88E+00	7.61E+01	2.97E+01
	18	609.57	1.87E+02	39.85	1.77E+01	8.73E+00	1.69E+02	4.08E+01
	19	662.94	3.38E+01	32.78	6.25E+00	3.54E+00	2.76E+01	3.30E+01
	20	706.41	2.01E+01	23.49			2.01E+01	2.35E+01
	21	743.08	2.09E+01	17.41			2.09E+01	1.74E+01
	22	768.36	2.75E+01	17.97			2.75E+01	1.80E+01
	23	911.47	7.10E+01	28.50	3.66E+00	2.67E+00	6.73E+01	2.86E+01
	24	920.99	2.17E+01	20.83			2.17E+01	2.08E+01
m	25	976.35	1.01E+01	19.90			1.01E+01	1.99E+01
M	26	993.18	1.73E+01	12.96			1.73E+01	1.30E+01
m	27	1002.92	1.28E+01	12.00			1.28E+01	1.20E+01
m	28	1008.36	1.30E+01	10.34			1.30E+01	1.03E+01
	29	1119.98	4.05E+01	19.49	5.40E+00	2.54E+00	3.51E+01	1.97E+01
	30	1141.17	2.72E+01	17.76			2.72E+01	1.78E+01
	31	1238.48	3.10E+01	18.28	1.40E+00	2.38E+00	2.96E+01	1.84E+01
	32	1255.88	2.19E+01	15.40			2.19E+01	1.54E+01

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
33	1318.83	1.41E+01	16.31			1.41E+01	1.63E+01
34	1447.68	7.46E+00	10.00			7.46E+00	1.00E+01
35	1461.16	2.43E+02	33.41	1.02E+01	2.32E+00	2.33E+02	3.35E+01
36	1524.60	1.16E+01	8.73			1.16E+01	8.73E+00
37	1557.75	1.02E+01	8.77			1.02E+01	8.77E+00
38	1608.61	7.00E+00	6.18			7.00E+00	6.18E+00
39	1631.80	8.00E+00	9.21			8.00E+00	9.21E+00
40	1728.15	7.80E+00	7.48			7.80E+00	7.48E+00
41	1764.54	4.31E+01	15.56	4.45E+00	2.04E+00	3.87E+01	1.57E+01
42	1848.23	7.33E+00	6.71			7.33E+00	6.71E+00
43	2115.42	4.42E+00	5.74			4.42E+00	5.74E+00
44	2127.82	7.00E+00	5.29			7.00E+00	5.29E+00
45	2204.60	1.86E+01	10.44	2.10E+00	1.24E+00	1.65E+01	1.05E+01
46	2243.25	9.00E+00	6.00			9.00E+00	6.00E+00
47	2282.57	4.58E+00	5.74			4.58E+00	5.74E+00
48	2446.23	1.00E+01	6.32			1.00E+01	6.32E+00
49	2614.20	3.98E+01	14.08	6.29E+00	1.69E+00	3.35E+01	1.42E+01
50	2862.73	5.07E+00	6.95			5.07E+00	6.95E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.981	1460.81	*	10.67	1.23E+01	2.19E+00
TE-132	0.525	49.72		13.10		
		228.16	*	88.00	2.61E+01	2.79E+01
TL-208	0.873	583.14	*	30.22	6.94E-01	2.77E-01
		860.37		4.48		
		2614.66	*	35.85	6.09E-01	2.62E-01
PB-212	0.995	238.63	*	44.60	8.93E-01	1.69E-01
		300.09	*	3.41	1.28E+00	1.37E+00
BI-214	0.990	609.31	*	46.30	1.04E+00	2.67E-01
		1120.29	*	15.10	1.08E+00	6.10E-01
		1764.49	*	15.80	1.55E+00	6.40E-01
		2204.22	*	4.98	2.23E+00	1.43E+00
PB-214	1.000	295.21	*	19.19	1.10E+00	3.02E-01

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	1.000	351.92	*	37.19	1.23E+00	2.45E-01
RA-226	0.992	186.21	*	3.28	2.86E+00	5.58E+00
AC-228	0.553	338.32	*	11.40	1.28E+00	6.44E-01
		911.07	*	27.70	9.53E-01	4.13E-01
		969.11		16.60		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:29:27AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.48	1.23642E-01	10.14		
	2	94.32	6.80576E-02	21.61		
	3	128.64	1.06357E-02	56.02		
	4	164.09	1.23468E-02	55.70	Tol.	CS-136 U-235
	6	208.57	1.34449E-02	45.06		
m	9	242.24	1.71470E-02	27.49		
	10	270.72	1.05556E-02	45.15		
	15	366.30	7.15426E-03	57.13		
	16	418.81	6.92460E-03	49.57		
	19	662.94	7.65344E-03	59.83		
	20	706.41	5.57261E-03	58.56		
	21	743.08	5.81349E-03	41.59	D-Esc	
	22	768.36	7.64184E-03	32.65	Sum	
	24	920.99	6.01449E-03	48.11		
m	25	976.35	2.79828E-03	98.77		
M	26	993.18	4.80359E-03	37.48		
m	27	1002.92	3.56576E-03	46.74		
m	28	1008.36	3.62268E-03	39.66		
	30	1141.17	7.56098E-03	32.61		
	31	1238.48	8.22338E-03	31.13		
	32	1255.88	6.07435E-03	35.22		
	33	1318.83	3.92720E-03	57.68		
	34	1447.68	2.07265E-03	67.01		

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
36	1524.60	3.22421E-03	37.62		
37	1557.75	2.84188E-03	42.89		
38	1608.61	1.94444E-03	44.18		
39	1631.80	2.22222E-03	57.54		
40	1728.15	2.16667E-03	47.97		
42	1848.23	2.03704E-03	45.74		
43	2115.42	1.22685E-03	65.03		
44	2127.82	1.94444E-03	37.80		
46	2243.25	2.50000E-03	33.33		
47	2282.57	1.27315E-03	62.67		
48	2446.23	2.77778E-03	31.62		
50	2862.73	1.40873E-03	68.48		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	1.23E+01	2.19E+00
TE-132	0.52	49.72		13.10		
		228.16	*	88.00	2.61E+01	2.79E+01
TL-208	0.87	583.14	*	30.22	6.94E-01	2.77E-01
		860.37		4.48		
		2614.66	*	35.85	6.09E-01	2.62E-01
PB-212	0.99	238.63	*	44.60	8.93E-01	1.69E-01
		300.09	*	3.41	1.28E+00	1.37E+00
BI-214	0.99	609.31	*	46.30	1.04E+00	2.67E-01
		1120.29	*	15.10	1.08E+00	6.10E-01
		1764.49	*	15.80	1.55E+00	6.40E-01
		2204.22	*	4.98	2.23E+00	1.43E+00
PB-214	1.00	295.21	*	19.19	1.10E+00	3.02E-01
		351.92	*	37.19	1.23E+00	2.45E-01
RA-226	0.99	186.21	*	3.28	2.86E+00	5.58E+00
AC-228	0.55	338.32	*	11.40	1.28E+00	6.44E-01

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AC-228	0.55	911.07 969.11	*	27.70 16.60	9.53E-01	4.13E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.981	1.23E+01	2.19E+00	
TE-132	0.525	2.61E+01	2.79E+01	
TL-208	0.873	6.49E-01	1.91E-01	
PB-212	0.995	8.99E-01	1.68E-01	
BI-214	0.990	1.14E+00	2.25E-01	
PB-214	1.000	1.17E+00	1.90E-01	
RA-226	0.992	2.86E+00	5.58E+00	
AC-228	0.553	1.05E+00	3.48E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:29:27AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.48	1.23642E-01	10.14		
	2	94.32	6.80576E-02	21.61		
	3	128.64	1.06357E-02	56.02		
	4	164.09	1.23468E-02	55.70	Tol.	CS-136 U-235
	6	208.57	1.34449E-02	45.06		
m	9	242.24	1.71470E-02	27.49		
	10	270.72	1.05556E-02	45.15		
	15	366.30	7.15426E-03	57.13		
	16	418.81	6.92460E-03	49.57		
	19	662.94	7.65344E-03	59.83		
	20	706.41	5.57261E-03	58.56		
	21	743.08	5.81349E-03	41.59	D-Esc	
	22	768.36	7.64184E-03	32.65	Sum	
	24	920.99	6.01449E-03	48.11		
m	25	976.35	2.79828E-03	98.77		
M	26	993.18	4.80359E-03	37.48		
m	27	1002.92	3.56576E-03	46.74		
m	28	1008.36	3.62268E-03	39.66		
	30	1141.17	7.56098E-03	32.61		
	31	1238.48	8.22338E-03	31.13		
	32	1255.88	6.07435E-03	35.22		
	33	1318.83	3.92720E-03	57.68		
	34	1447.68	2.07265E-03	67.01		
	36	1524.60	3.22421E-03	37.62		
	37	1557.75	2.84188E-03	42.89		
	38	1608.61	1.94444E-03	44.18		
	39	1631.80	2.22222E-03	57.54		
	40	1728.15	2.16667E-03	47.97		
	42	1848.23	2.03704E-03	45.74		
	43	2115.42	1.22685E-03	65.03		
	44	2127.82	1.94444E-03	37.80		
	46	2243.25	2.50000E-03	33.33		
	47	2282.57	1.27315E-03	62.67		
	48	2446.23	2.77778E-03	31.62		

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
50	2862.73	1.40873E-03	68.48		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-1.91E-01	1.07E+00	1.07E+00
+	NA-22	1274.54		99.94	-1.05E-02	9.87E-02	9.87E-02
+	NA-24	1368.53		99.99	9.32E+12	2.14E+13	3.19E+13
		2754.09		99.86	3.54E+12		2.14E+13
+	AL-26	1808.65		99.76	-1.45E-02	1.07E-01	1.07E-01
+	K-40	1460.81	*	10.67	1.23E+01	1.35E+00	1.35E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	5.41E-02	7.07E-02	7.07E-02
		78.34		96.00	2.41E-01		9.60E-02
+	SC-46	889.25		99.98	-8.97E-03	1.28E-01	1.28E-01
		1120.51		99.99	1.97E-01		2.23E-01
+	V-48	983.52		99.98	1.60E-01	2.98E-01	3.93E-01
		1312.10		97.50	1.65E-02		2.98E-01
+	CR-51	320.08		9.83	8.84E-01	1.68E+00	1.68E+00
+	MN-54	834.83		99.97	-2.07E-03	1.13E-01	1.13E-01
+	CO-56	846.75		99.96	-1.84E-02	1.18E-01	1.18E-01
		1037.75		14.03	5.22E-01		1.14E+00
		1238.25		67.00	2.05E-01		3.06E-01
		1771.40		15.51	-1.06E-01		7.98E-01
		2598.48		16.90	1.68E-02		4.68E-01
+	CO-57	122.06		85.51	5.23E-02	7.73E-02	7.73E-02
		136.48		10.60	-6.04E-02		6.83E-01
+	CO-58	810.76		99.40	-1.01E-02	1.34E-01	1.34E-01
+	FE-59	1099.22		56.50	-1.49E-02	2.96E-01	2.96E-01
		1291.56		43.20	-9.96E-02		3.60E-01
+	CO-60	1173.22		100.00	4.27E-02	1.11E-01	1.33E-01
		1332.49		100.00	8.04E-02		1.11E-01
+	ZN-65	1115.52		50.75	-2.18E-02	2.28E-01	2.28E-01

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	GA-67	93.31	35.70	1.30E+02	1.46E+02	1.46E+02
		208.95	2.24	6.28E+02		2.16E+03
		300.22	16.00	2.30E+02		3.12E+02
+	SE-75	121.11	16.70	3.35E-02	1.31E-01	4.32E-01
		136.00	59.20	-7.76E-02		1.31E-01
		264.65	59.80	6.68E-02		1.48E-01
		279.53	25.20	8.20E-02		3.38E-01
		400.65	11.40	-4.23E-04		7.97E-01
+	RB-82	776.52	13.00	-3.19E-01	1.64E+00	1.64E+00
+	RB-83	520.41	46.00	2.37E-02	2.26E-01	2.26E-01
		529.64	30.30	4.32E-02		3.22E-01
		552.65	16.40	-1.75E-01		6.14E-01
+	KR-85	513.99	0.43	9.49E+00	2.52E+01	2.52E+01
+	SR-85	513.99	99.27	5.69E-02	1.51E-01	1.51E-01
+	Y-88	898.02	93.40	-3.91E-02	1.25E-01	1.36E-01
		1836.01	99.38	1.57E-02		1.25E-01
+	NB-93M	16.57	9.43	-7.24E+03	9.46E+03	9.46E+03
+	NB-94	702.63	100.00	-1.88E-03	9.98E-02	9.98E-02
		871.10	100.00	6.74E-04		1.03E-01
+	NB-95	765.79	99.81	3.48E-03	2.18E-01	2.18E-01
+	NB-95M	235.69	25.00	-6.13E+02	1.29E+02	1.29E+02
+	ZR-95	724.18	43.70	2.32E-01	2.84E-01	3.57E-01
		756.72	55.30	7.60E-02		2.84E-01
+	MO-99	181.06	6.20	-3.03E+02	1.86E+03	2.07E+03
		739.58	12.80	5.48E+02		1.86E+03
		778.00	4.50	-7.81E+02		4.43E+03
+	RU-103	497.08	89.00	-1.44E-02	1.38E-01	1.38E-01
+	RU-106	621.84	9.80	-2.19E-01	1.00E+00	1.00E+00
+	AG-108M	433.93	89.90	7.98E-03	9.22E-02	9.22E-02
		614.37	90.40	3.17E-03		1.19E-01
		722.95	90.50	-4.18E-02		1.10E-01
+	CD-109	88.03	3.72	-9.86E-01	2.32E+00	2.32E+00
+	AG-110M	657.75	93.14	-2.12E-02	1.12E-01	1.12E-01
		677.61	10.53	-3.49E-01		9.27E-01
		706.67	16.46	6.61E-01		7.65E-01
		763.93	21.98	-1.45E-01		4.52E-01
		884.67	71.63	-2.61E-02		1.36E-01
		1384.27	23.94	-1.39E-02		5.27E-01
+	CD-113M	263.70	0.02	2.01E+02	3.32E+02	3.32E+02
+	SN-113	255.12	1.93	3.54E+00	1.30E-01	4.64E+00
		391.69	64.90	-1.87E-02		1.30E-01
+	TE123M	159.00	84.10	3.35E-02	9.36E-02	9.36E-02
+	SB-124	602.71	97.87	1.05E-03	1.48E-01	1.48E-01
		645.85	7.26	-3.08E-01		1.75E+00
		722.78	11.10	-4.81E-01		1.27E+00
		1691.02	49.00	-2.23E-02		2.14E-01
+	I-125	35.49	6.49	5.76E-01	8.82E+00	8.82E+00
+	SB-125	176.33	6.89	-4.18E-01	2.68E-01	9.40E-01

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		SB-125	427.89		29.33	-1.24E-01	2.68E-01	2.68E-01
			463.38		10.35	1.84E-01		8.91E-01
			600.56		17.80	-4.16E-02		6.02E-01
			635.90		11.32	2.80E-02		8.33E-01
+		SB-126	414.70		83.30	-1.52E-01	4.87E-01	4.87E-01
			666.33		99.60	-3.20E-01		5.65E-01
			695.00		99.60	-1.03E-02		5.72E-01
			720.50		53.80	-1.78E-01		9.28E-01
+		SN-126	87.57		37.00	-9.48E-02	2.23E-01	2.23E-01
+		SB-127	473.00		25.00	1.07E+01	6.11E+01	7.24E+01
			685.20		35.70	1.37E+01		6.11E+01
			783.80		14.70	6.78E+01		1.86E+02
+		I-129	29.78		57.00	-4.17E-01	1.87E+00	1.87E+00
			33.60		13.20	-1.70E+00		3.87E+00
			39.58		7.52	1.41E+00		3.66E+00
+		I-131	284.30		6.05	1.96E+00	1.30E+00	1.62E+01
			364.48		81.20	-7.57E-01		1.30E+00
			636.97		7.26	3.49E+00		1.75E+01
			722.89		1.80	-2.81E+01		7.41E+01
+		TE-132	49.72		13.10	-1.32E+02	4.53E+01	6.32E+02
			228.16	*	88.00	2.61E+01		4.53E+01
+		BA-133	81.00		33.00	5.36E-03	1.29E-01	1.61E-01
			302.84		17.80	-1.49E-01		4.30E-01
			356.01		60.00	4.84E-02		1.29E-01
+		I-133	529.87		86.30	-7.01E+08	2.42E+09	2.42E+09
+		CS-134	563.23		8.38	2.31E-01	1.22E-01	1.10E+00
			569.32		15.43	1.16E-01		5.60E-01
			604.70		97.60	-9.17E-03		1.22E-01
			795.84		85.40	5.22E-02		1.42E-01
			801.93		8.73	-6.40E-01		1.12E+00
+		CS-135	268.24		16.00	6.13E-02	4.59E-01	4.59E-01
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	-2.71E+00	5.03E-01	4.22E+00
			163.89		4.61	6.48E+00		7.63E+00
			176.55		13.56	-2.50E-01		2.32E+00
			273.65		12.66	2.02E-01		2.84E+00
			340.57		48.50	1.89E-02		8.92E-01
			818.50		99.70	-1.47E-02		5.03E-01
			1048.07		79.60	9.37E-02		6.99E-01
			1235.34		19.70	-4.96E-01		3.55E+00
+		CS-137	661.65		85.12	6.02E-02	1.35E-01	1.35E-01
+		LA-138	788.74		34.00	1.25E-01	1.27E-01	3.51E-01
			1435.80		66.00	-6.84E-02		1.27E-01
+		CE-139	165.85		80.35	2.21E-02	9.92E-02	9.92E-02
+		BA-140	162.64		6.70	1.63E+00	1.56E+00	5.38E+00
			304.84		4.50	1.13E+00		7.97E+00
			423.70		3.20	1.26E+00		1.20E+01

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-140	437.55	2.00	-1.21E+00	1.56E+00	1.94E+01
		537.32	25.00	-1.71E-01		1.56E+00
+	LA-140	328.77	20.50	1.76E+00	4.81E-01	2.19E+00
		487.03	45.50	1.46E-01		9.75E-01
		815.85	23.50	-2.31E-01		2.16E+00
		1596.49	95.49	-1.92E-01		4.81E-01
+	CE-141	145.44	48.40	2.12E-01	2.84E-01	2.84E-01
+	CE-143	57.36	11.80	2.02E+06	9.74E+05	2.95E+06
		293.26	42.00	2.94E+05		9.74E+05
		664.55	5.20	5.89E+06		9.08E+06
+	CE-144	133.54	10.80	2.07E-01	6.63E-01	6.63E-01
+	PM-144	476.78	42.00	-3.39E-02	9.95E-02	1.91E-01
		618.01	98.60	1.55E-02		9.95E-02
		696.49	99.49	2.00E-02		1.15E-01
+	PM-145	36.85	21.70	3.18E-01	8.24E-01	1.61E+00
		37.36	39.70	1.63E-01		8.24E-01
		42.30	15.10	-9.86E-02		1.37E+00
		72.40	2.31	-2.77E-01		2.55E+00
+	PM-146	453.90	39.94	4.07E-02	2.01E-01	2.01E-01
		735.90	14.01	2.09E-01		7.82E-01
		747.13	13.10	-1.53E-01		7.58E-01
+	ND-147	91.11	28.90	-1.01E+00	2.00E+00	2.00E+00
		531.02	13.10	-4.47E-01		3.76E+00
+	PM-149	285.90	3.10	5.03E+03	3.09E+04	3.09E+04
+	EU-152	121.78	20.50	2.03E-01	2.99E-01	2.99E-01
		244.69	5.40	-1.72E+00		1.31E+00
		344.27	19.13	-3.41E-02		3.95E-01
		778.89	9.20	-8.52E-01		1.01E+00
		964.01	10.40	4.75E-02		1.01E+00
		1085.78	7.22	6.11E-01		1.63E+00
		1112.02	9.60	-4.31E-01		1.05E+00
		1407.95	14.94	2.17E-01		8.32E-01
+	GD-153	97.43	31.30	4.25E-02	2.25E-01	2.25E-01
		103.18	22.20	3.36E-02		2.83E-01
+	EU-154	123.07	40.50	4.04E-03	1.49E-01	1.49E-01
		723.30	19.70	-1.93E-01		5.09E-01
		873.19	11.50	1.50E-01		9.48E-01
		996.32	10.30	1.93E-01		1.05E+00
		1004.76	17.90	-8.86E-02		5.73E-01
		1274.45	35.50	-2.91E-02		2.74E-01
+	EU-155	86.50	30.90	-1.44E-01	2.63E-01	2.63E-01
		105.30	20.70	-7.38E-02		2.73E-01
+	EU-156	811.77	10.40	-7.68E-01	3.64E+00	3.64E+00
		1153.47	7.20	2.23E+00		7.11E+00
		1230.71	8.90	-2.16E+00		5.32E+00
+	HO-166M	184.41	72.60	5.37E-02	1.18E-01	1.18E-01
		280.45	29.60	5.88E-02		2.43E-01
		410.94	11.10	3.25E-02		7.13E-01
		711.69	54.10	2.67E-02		1.84E-01

Analysis Report for 1506114-08

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TM-171	66.72		0.14	1.16E+01	4.87E+01	4.87E+01
+	HF-172	81.75		4.52	-5.53E-01	5.41E-01	1.19E+00
		125.81		11.30	-9.70E-02		5.41E-01
+	LU-172	181.53		20.60	3.26E-01	4.47E+00	7.32E+00
		810.06		16.63	-1.01E+00		1.34E+01
		912.12		15.25	3.88E+01		2.67E+01
		1093.66		62.50	2.05E+00		4.47E+00
+	LU-173	100.72		5.24	8.63E-01	3.95E-01	1.21E+00
		272.11		21.20	2.00E-01		3.95E-01
+	HF-175	343.40		84.00	-5.47E-02	1.19E-01	1.19E-01
+	LU-176	88.34		13.30	-2.64E-01	7.61E-02	6.21E-01
		201.83		86.00	-7.69E-03		8.22E-02
		306.78		94.00	-9.85E-04		7.61E-02
+	TA-182	67.75		41.20	1.49E-01	1.94E-01	1.94E-01
		1121.30		34.90	4.65E-01		5.98E-01
		1189.05		16.23	-2.04E-01		8.81E-01
		1221.41		26.98	-1.91E-01		5.63E-01
		1231.02		11.44	-3.72E-01		1.23E+00
+	IR-192	308.46		29.68	8.59E-02	2.17E-01	3.18E-01
		468.07		48.10	-3.31E-02		2.17E-01
+	HG-203	279.19		77.30	-3.06E-02	1.47E-01	1.47E-01
+	BI-207	569.67		97.72	1.78E-02	8.61E-02	8.61E-02
		1063.62		74.90	6.29E-02		1.33E-01
+	TL-208	583.14	*	30.22	6.94E-01	2.95E-01	3.85E-01
		860.37		4.48	2.92E-01		2.39E+00
		2614.66	*	35.85	6.09E-01		2.95E-01
+	BI-210M	262.00		45.00	3.22E-02	1.64E-01	1.64E-01
		300.00		23.00	2.66E-01		3.61E-01
+	PB-210	46.50		4.25	4.09E+00	4.13E+00	4.13E+00
+	PB-211	404.84		2.90	-5.77E-01	2.72E+00	2.72E+00
		831.96		2.90	-8.96E-02		3.43E+00
+	BI-212	727.17		11.80	1.03E-01	8.80E-01	8.80E-01
		1620.62		2.75	1.79E+00		4.55E+00
+	PB-212	238.63	*	44.60	8.93E-01	3.54E-01	3.54E-01
		300.09	*	3.41	1.28E+00		4.97E+00
+	BI-214	609.31	*	46.30	1.04E+00	3.35E-01	3.35E-01
		1120.29	*	15.10	1.08E+00		8.75E-01
		1764.49	*	15.80	1.55E+00		7.37E-01
		2204.22	*	4.98	2.23E+00		1.84E+00
+	PB-214	295.21	*	19.19	1.10E+00	2.63E-01	8.78E-01
		351.92	*	37.19	1.23E+00		2.63E-01
+	RN-219	401.80		6.50	-2.43E-01	1.15E+00	1.15E+00
+	RA-223	323.87		3.88	-7.35E-01	1.91E+00	1.91E+00
+	RA-224	240.98		3.95	7.67E+00	3.46E+00	3.46E+00
+	RA-225	40.00		31.00	1.34E+00	3.49E+00	3.49E+00
+	RA-226	186.21	*	3.28	2.86E+00	3.13E+00	3.13E+00
+	TH-227	50.10		8.40	-3.34E-01	8.66E-01	1.60E+00
		236.00		11.50	-4.13E+00		8.66E-01

Analysis Report for 1506114-08

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TH-227	256.20		6.30	2.07E-01	8.66E-01	1.15E+00
+	AC-228	338.32	*	11.40	1.28E+00	5.84E-01	9.71E-01
		911.07	*	27.70	9.53E-01		5.84E-01
		969.11		16.60	3.34E-01		8.67E-01
+	TH-230	48.44		16.90	9.09E-02	8.89E-01	8.89E-01
		62.85		4.60	1.54E+00		1.65E+00
		67.67		0.37	1.38E+01		1.81E+01
+	PA-231	283.67		1.60	5.54E-01	3.31E+00	4.58E+00
		302.67		2.30	-1.14E+00		3.31E+00
+	TH-231	25.64		14.70	2.43E+01	9.13E-01	2.57E+01
		84.21		6.40	3.51E-01		9.13E-01
+	PA-233	311.98		38.60	1.15E-01	4.14E-01	4.14E-01
+	PA-234	131.20		20.40	5.89E-02	3.31E-01	3.31E-01
		733.99		8.80	8.98E-02		1.13E+00
		946.00		12.00	4.01E-01		9.91E-01
+	PA-234M	1001.03		0.92	-1.28E+00	1.08E+01	1.08E+01
+	TH-234	63.29		3.80	1.86E+00	1.98E+00	1.98E+00
+	U-235	143.76		10.50	2.09E-01	6.80E-01	6.80E-01
		163.35		4.70	4.57E-01		1.50E+00
		205.31		4.70	2.84E-02		1.57E+00
+	NP-237	86.50		12.60	-3.49E-01	6.38E-01	6.38E-01
+	NP-239	106.10		22.70	7.03E+02	1.85E+03	1.85E+03
		228.18		10.70	1.51E+03		4.71E+03
		277.60		14.10	2.06E+03		3.81E+03
+	AM-241	59.54		35.90	-3.04E-02	1.91E-01	1.91E-01
+	AM-243	74.67		66.00	-1.64E-01	1.25E-01	1.25E-01
+	CM-243	209.75		3.29	1.32E+00	5.46E-01	2.46E+00
		228.14		10.60	2.17E-01		6.77E-01
		277.60		14.00	2.96E-01		5.46E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1506114-08

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.07E+00	1.07E+00	-1.91E-01	4.91E-01
	NA-22	1274.54		99.94	9.87E-02	9.87E-02	-1.05E-02	4.22E-02
	NA-24	1368.53		99.99	3.19E+13	2.14E+13	9.32E+12	1.37E+13
		2754.09		99.86	2.14E+13		3.54E+12	8.03E+12
	AL-26	1808.65		99.76	1.07E-01	1.07E-01	-1.45E-02	4.47E-02
+	K-40	1460.81	*	10.67	1.35E+00	1.35E+00	1.23E+01	6.03E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.07E-02	7.07E-02	5.41E-02	3.38E-02
		78.34		96.00	9.60E-02		2.41E-01	4.67E-02
	SC-46	889.25		99.98	1.28E-01	1.28E-01	-8.97E-03	5.73E-02
		1120.51		99.99	2.23E-01		1.97E-01	1.03E-01
	V-48	983.52		99.98	3.93E-01	2.98E-01	1.60E-01	1.76E-01
		1312.10		97.50	2.98E-01		1.65E-02	1.22E-01
	CR-51	320.08		9.83	1.68E+00	1.68E+00	8.84E-01	7.86E-01
	MN-54	834.83		99.97	1.13E-01	1.13E-01	-2.07E-03	5.13E-02
	CO-56	846.75		99.96	1.18E-01	1.18E-01	-1.84E-02	5.25E-02
		1037.75		14.03	1.14E+00		5.22E-01	5.16E-01
		1238.25		67.00	3.06E-01		2.05E-01	1.40E-01
		1771.40		15.51	7.98E-01		-1.06E-01	3.27E-01
		2598.48		16.90	4.68E-01		1.68E-02	1.66E-01
	CO-57	122.06		85.51	7.73E-02	7.73E-02	5.23E-02	3.69E-02
		136.48		10.60	6.83E-01		-6.04E-02	3.27E-01
	CO-58	810.76		99.40	1.34E-01	1.34E-01	-1.01E-02	6.03E-02
	FE-59	1099.22		56.50	2.96E-01	2.96E-01	-1.49E-02	1.31E-01
		1291.56		43.20	3.60E-01		-9.96E-02	1.54E-01
	CO-60	1173.22		100.00	1.33E-01	1.11E-01	4.27E-02	5.98E-02
		1332.49		100.00	1.11E-01		8.04E-02	4.83E-02
	ZN-65	1115.52		50.75	2.28E-01	2.28E-01	-2.18E-02	1.00E-01
	GA-67	93.31		35.70	1.46E+02	1.46E+02	1.30E+02	7.08E+01
		208.95		2.24	2.16E+03		6.28E+02	1.03E+03
		300.22		16.00	3.12E+02		2.30E+02	1.47E+02
	SE-75	121.11		16.70	4.32E-01	1.31E-01	3.35E-02	2.07E-01
		136.00		59.20	1.31E-01		-7.76E-02	6.28E-02
		264.65		59.80	1.48E-01		6.68E-02	6.97E-02
		279.53		25.20	3.38E-01		8.20E-02	1.59E-01
		400.65		11.40	7.97E-01		-4.23E-04	3.69E-01
	RB-82	776.52		13.00	1.64E+00	1.64E+00	-3.19E-01	7.38E-01
	RB-83	520.41		46.00	2.26E-01	2.26E-01	2.37E-02	1.03E-01
		529.64		30.30	3.22E-01		4.32E-02	1.46E-01
		552.65		16.40	6.14E-01		-1.75E-01	2.79E-01
	KR-85	513.99		0.43	2.52E+01	2.52E+01	9.49E+00	1.18E+01
	SR-85	513.99		99.27	1.51E-01	1.51E-01	5.69E-02	7.08E-02
	Y-88	898.02		93.40	1.36E-01	1.25E-01	-3.91E-02	6.09E-02
		1836.01		99.38	1.25E-01		1.57E-02	5.17E-02
	NB-93M	16.57		9.43	9.46E+03	9.46E+03	-7.24E+03	4.58E+03

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	9.98E-02	9.98E-02	-1.88E-03	4.56E-02
		871.10		100.00	1.03E-01		6.74E-04	4.65E-02
	NB-95	765.79		99.81	2.18E-01	2.18E-01	3.48E-03	1.01E-01
	NB-95M	235.69		25.00	1.29E+02	1.29E+02	-6.13E+02	6.18E+01
	ZR-95	724.18		43.70	3.57E-01	2.84E-01	2.32E-01	1.65E-01
		756.72		55.30	2.84E-01		7.60E-02	1.30E-01
	MO-99	181.06		6.20	2.07E+03	1.86E+03	-3.03E+02	9.83E+02
		739.58		12.80	1.86E+03		5.48E+02	8.62E+02
		778.00		4.50	4.43E+03		-7.81E+02	2.01E+03
	RU-103	497.08		89.00	1.38E-01	1.38E-01	-1.44E-02	6.26E-02
	RU-106	621.84		9.80	1.00E+00	1.00E+00	-2.19E-01	4.60E-01
	AG-108M	433.93		89.90	9.22E-02	9.22E-02	7.98E-03	4.28E-02
		614.37		90.40	1.19E-01		3.17E-03	5.53E-02
		722.95		90.50	1.10E-01		-4.18E-02	5.02E-02
	CD-109	88.03		3.72	2.32E+00	2.32E+00	-9.86E-01	1.13E+00
	AG-110M	657.75		93.14	1.12E-01	1.12E-01	-2.12E-02	5.12E-02
		677.61		10.53	9.27E-01		-3.49E-01	4.20E-01
		706.67		16.46	7.65E-01		6.61E-01	3.54E-01
		763.93		21.98	4.52E-01		-1.45E-01	2.03E-01
		884.67		71.63	1.36E-01		-2.61E-02	6.04E-02
		1384.27		23.94	5.27E-01		-1.39E-02	2.30E-01
	CD-113M	263.70		0.02	3.32E+02	3.32E+02	2.01E+02	1.57E+02
	SN-113	255.12		1.93	4.64E+00	1.30E-01	3.54E+00	2.19E+00
		391.69		64.90	1.30E-01		-1.87E-02	5.98E-02
	TE123M	159.00		84.10	9.36E-02	9.36E-02	3.35E-02	4.46E-02
	SB-124	602.71		97.87	1.48E-01	1.48E-01	1.05E-03	6.85E-02
		645.85		7.26	1.75E+00		-3.08E-01	7.99E-01
		722.78		11.10	1.27E+00		-4.81E-01	5.78E-01
		1691.02		49.00	2.14E-01		-2.23E-02	8.30E-02
	I-125	35.49		6.49	8.82E+00	8.82E+00	5.76E-01	4.25E+00
	SB-125	176.33		6.89	9.40E-01	2.68E-01	-4.18E-01	4.46E-01
		427.89		29.33	2.68E-01		-1.24E-01	1.24E-01
		463.38		10.35	8.91E-01		1.84E-01	4.15E-01
		600.56		17.80	6.02E-01		-4.16E-02	2.79E-01
		635.90		11.32	8.33E-01		2.80E-02	3.81E-01
	SB-126	414.70		83.30	4.87E-01	4.87E-01	-1.52E-01	2.25E-01
		666.33		99.60	5.65E-01		-3.20E-01	2.60E-01
		695.00		99.60	5.72E-01		-1.03E-02	2.63E-01
		720.50		53.80	9.28E-01		-1.78E-01	4.20E-01
	SN-126	87.57		37.00	2.23E-01	2.23E-01	-9.48E-02	1.08E-01
	SB-127	473.00		25.00	7.24E+01	6.11E+01	1.07E+01	3.33E+01
		685.20		35.70	6.11E+01		1.37E+01	2.79E+01
		783.80		14.70	1.86E+02		6.78E+01	8.58E+01
	I-129	29.78		57.00	1.87E+00	1.87E+00	-4.17E-01	8.99E-01
		33.60		13.20	3.87E+00		-1.70E+00	1.86E+00
		39.58		7.52	3.66E+00		1.41E+00	1.77E+00
	I-131	284.30		6.05	1.62E+01	1.30E+00	1.96E+00	7.62E+00
		364.48		81.20	1.30E+00		-7.57E-01	6.06E-01
		636.97		7.26	1.75E+01		3.49E+00	8.00E+00
		722.89		1.80	7.41E+01		-2.81E+01	3.38E+01
+	TE-132	49.72		13.10	6.32E+02	4.53E+01	-1.32E+02	3.05E+02
		228.16	*	88.00	4.53E+01		2.61E+01	2.13E+01
	BA-133	81.00		33.00	1.61E-01	1.29E-01	5.36E-03	7.66E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-133	302.84	17.80	4.30E-01	1.29E-01	-1.49E-01	2.02E-01
	356.01	60.00	1.29E-01		4.84E-02	6.01E-02
I-133	529.87	86.30	2.42E+09	2.42E+09	-7.01E+08	1.10E+09
CS-134	563.23	8.38	1.10E+00	1.22E-01	2.31E-01	5.03E-01
	569.32	15.43	5.60E-01		1.16E-01	2.55E-01
	604.70	97.60	1.22E-01		-9.17E-03	5.68E-02
	795.84	85.40	1.42E-01		5.22E-02	6.52E-02
	801.93	8.73	1.12E+00		-6.40E-01	5.03E-01
CS-135	268.24	16.00	4.59E-01	4.59E-01	6.13E-02	2.16E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	4.22E+00	5.03E-01	-2.71E+00	2.01E+00
	163.89	4.61	7.63E+00		6.48E+00	3.65E+00
	176.55	13.56	2.32E+00		-2.50E-01	1.10E+00
	273.65	12.66	2.84E+00		2.02E-01	1.33E+00
	340.57	48.50	8.92E-01		1.89E-02	4.21E-01
	818.50	99.70	5.03E-01		-1.47E-02	2.28E-01
	1048.07	79.60	6.99E-01		9.37E-02	3.13E-01
	1235.34	19.70	3.55E+00		-4.96E-01	1.61E+00
CS-137	661.65	85.12	1.35E-01	1.35E-01	6.02E-02	6.28E-02
LA-138	788.74	34.00	3.51E-01	1.27E-01	1.25E-01	1.62E-01
	1435.80	66.00	1.27E-01		-6.84E-02	5.21E-02
CE-139	165.85	80.35	9.92E-02	9.92E-02	2.21E-02	4.73E-02
BA-140	162.64	6.70	5.38E+00	1.56E+00	1.63E+00	2.57E+00
	304.84	4.50	7.97E+00		1.13E+00	3.72E+00
	423.70	3.20	1.20E+01		1.26E+00	5.52E+00
	437.55	2.00	1.94E+01		-1.21E+00	8.93E+00
	537.32	25.00	1.56E+00		-1.71E-01	7.09E-01
LA-140	328.77	20.50	2.19E+00	4.81E-01	1.76E+00	1.03E+00
	487.03	45.50	9.75E-01		1.46E-01	4.51E-01
	815.85	23.50	2.16E+00		-2.31E-01	9.76E-01
	1596.49	95.49	4.81E-01		-1.92E-01	1.97E-01
CE-141	145.44	48.40	2.84E-01	2.84E-01	2.12E-01	1.36E-01
CE-143	57.36	11.80	2.95E+06	9.74E+05	2.02E+06	1.42E+06
	293.26	42.00	9.74E+05		2.94E+05	4.66E+05
	664.55	5.20	9.08E+06		5.89E+06	4.23E+06
CE-144	133.54	10.80	6.63E-01	6.63E-01	2.07E-01	3.18E-01
PM-144	476.78	42.00	1.91E-01	9.95E-02	-3.39E-02	8.72E-02
	618.01	98.60	9.95E-02		1.55E-02	4.55E-02
	696.49	99.49	1.15E-01		2.00E-02	5.31E-02
PM-145	36.85	21.70	1.61E+00	8.24E-01	3.18E-01	7.74E-01
	37.36	39.70	8.24E-01		1.63E-01	3.97E-01
	42.30	15.10	1.37E+00		-9.86E-02	6.61E-01
	72.40	2.31	2.55E+00		-2.77E-01	1.22E+00
PM-146	453.90	39.94	2.01E-01	2.01E-01	4.07E-02	9.27E-02
	735.90	14.01	7.82E-01		2.09E-01	3.59E-01
	747.13	13.10	7.58E-01		-1.53E-01	3.44E-01
ND-147	91.11	28.90	2.00E+00	2.00E+00	-1.01E+00	9.73E-01
	531.02	13.10	3.76E+00		-4.47E-01	1.70E+00
PM-149	285.90	3.10	3.09E+04	3.09E+04	5.03E+03	1.45E+04
EU-152	121.78	20.50	2.99E-01	2.99E-01	2.03E-01	1.43E-01
	244.69	5.40	1.31E+00		-1.72E+00	6.17E-01

Analysis Report for 1506114-08

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	344.27		19.13	3.95E-01	2.99E-01	-3.41E-02	1.84E-01
		778.89		9.20	1.01E+00		-8.52E-01	4.55E-01
		964.01		10.40	1.01E+00		4.75E-02	4.51E-01
		1085.78		7.22	1.63E+00		6.11E-01	7.31E-01
		1112.02		9.60	1.05E+00		-4.31E-01	4.62E-01
		1407.95		14.94	8.32E-01		2.17E-01	3.66E-01
	GD-153	97.43		31.30	2.25E-01	2.25E-01	4.25E-02	1.08E-01
		103.18		22.20	2.83E-01		3.36E-02	1.35E-01
	EU-154	123.07		40.50	1.49E-01	1.49E-01	4.04E-03	7.11E-02
		723.30		19.70	5.09E-01		-1.93E-01	2.32E-01
		873.19		11.50	9.48E-01		1.50E-01	4.29E-01
		996.32		10.30	1.05E+00		1.93E-01	4.69E-01
		1004.76		17.90	5.73E-01		-8.86E-02	2.54E-01
		1274.45		35.50	2.74E-01		-2.91E-02	1.17E-01
	EU-155	86.50		30.90	2.63E-01	2.63E-01	-1.44E-01	1.27E-01
		105.30		20.70	2.73E-01		-7.38E-02	1.30E-01
	EU-156	811.77		10.40	3.64E+00	3.64E+00	-7.68E-01	1.64E+00
		1153.47		7.20	7.11E+00		2.23E+00	3.20E+00
		1230.71		8.90	5.32E+00		-2.16E+00	2.36E+00
	HO-166M	184.41		72.60	1.18E-01	1.18E-01	5.37E-02	5.65E-02
		280.45		29.60	2.43E-01		5.88E-02	1.14E-01
		410.94		11.10	7.13E-01		3.25E-02	3.30E-01
		711.69		54.10	1.84E-01		2.67E-02	8.40E-02
	TM-171	66.72		0.14	4.87E+01	4.87E+01	1.16E+01	2.33E+01
	HF-172	81.75		4.52	1.19E+00	5.41E-01	-5.53E-01	5.65E-01
		125.81		11.30	5.41E-01		-9.70E-02	2.58E-01
	LU-172	181.53		20.60	7.32E+00	4.47E+00	3.26E-01	3.48E+00
		810.06		16.63	1.34E+01		-1.01E+00	6.04E+00
		912.12		15.25	2.67E+01		3.88E+01	1.26E+01
		1093.66		62.50	4.47E+00		2.05E+00	2.01E+00
	LU-173	100.72		5.24	1.21E+00	3.95E-01	8.63E-01	5.77E-01
		272.11		21.20	3.95E-01		2.00E-01	1.87E-01
	HF-175	343.40		84.00	1.19E-01	1.19E-01	-5.47E-02	5.52E-02
	LU-176	88.34		13.30	6.21E-01	7.61E-02	-2.64E-01	3.01E-01
		201.83		86.00	8.22E-02		-7.69E-03	3.90E-02
		306.78		94.00	7.61E-02		-9.85E-04	3.55E-02
	TA-182	67.75		41.20	1.94E-01	1.94E-01	1.49E-01	9.31E-02
		1121.30		34.90	5.98E-01		4.65E-01	2.78E-01
		1189.05		16.23	8.81E-01		-2.04E-01	3.92E-01
		1221.41		26.98	5.63E-01		-1.91E-01	2.51E-01
		1231.02		11.44	1.23E+00		-3.72E-01	5.45E-01
	IR-192	308.46		29.68	3.18E-01	2.17E-01	8.59E-02	1.49E-01
		468.07		48.10	2.17E-01		-3.31E-02	9.99E-02
	HG-203	279.19		77.30	1.47E-01	1.47E-01	-3.06E-02	6.88E-02
	BI-207	569.67		97.72	8.61E-02	8.61E-02	1.78E-02	3.93E-02
		1063.62		74.90	1.33E-01		6.29E-02	5.87E-02
+	TL-208	583.14	*	30.22	3.85E-01	2.95E-01	6.94E-01	1.80E-01
		860.37		4.48	2.39E+00		2.92E-01	1.08E+00
		2614.66	*	35.85	2.95E-01		6.09E-01	1.23E-01
	BI-210M	262.00		45.00	1.64E-01	1.64E-01	3.22E-02	7.73E-02
		300.00		23.00	3.61E-01		2.66E-01	1.70E-01
	PB-210	46.50		4.25	4.13E+00	4.13E+00	4.09E+00	2.00E+00
	PB-211	404.84		2.90	2.72E+00	2.72E+00	-5.77E-01	1.26E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	831.96		2.90	3.43E+00	2.72E+00	-8.96E-02	1.54E+00
	BI-212	727.17		11.80	8.80E-01	8.80E-01	1.03E-01	4.02E-01
		1620.62		2.75	4.55E+00		1.79E+00	1.98E+00
+	PB-212	238.63	*	44.60	3.54E-01	3.54E-01	8.93E-01	1.73E-01
		300.09	*	3.41	4.97E+00		1.28E+00	2.42E+00
+	BI-214	609.31	*	46.30	3.35E-01	3.35E-01	1.04E+00	1.59E-01
		1120.29	*	15.10	8.75E-01		1.08E+00	3.96E-01
		1764.49	*	15.80	7.37E-01		1.55E+00	3.14E-01
		2204.22	*	4.98	1.84E+00		2.23E+00	7.39E-01
+	PB-214	295.21	*	19.19	8.78E-01	2.63E-01	1.10E+00	4.27E-01
		351.92	*	37.19	2.63E-01		1.23E+00	1.25E-01
	RN-219	401.80		6.50	1.15E+00	1.15E+00	-2.43E-01	5.29E-01
	RA-223	323.87		3.88	1.91E+00	1.91E+00	-7.35E-01	8.93E-01
	RA-224	240.98		3.95	3.46E+00	3.46E+00	7.67E+00	1.68E+00
	RA-225	40.00		31.00	3.49E+00	3.49E+00	1.34E+00	1.69E+00
+	RA-226	186.21	*	3.28	3.13E+00	3.13E+00	2.86E+00	1.51E+00
	TH-227	50.10		8.40	1.60E+00	8.66E-01	-3.34E-01	7.76E-01
		236.00		11.50	8.66E-01		-4.13E+00	4.16E-01
		256.20		6.30	1.15E+00		2.07E-01	5.40E-01
+	AC-228	338.32	*	11.40	9.71E-01	5.84E-01	1.28E+00	4.63E-01
		911.07	*	27.70	5.84E-01		9.53E-01	2.73E-01
		969.11		16.60	8.67E-01		3.34E-01	4.00E-01
	TH-230	48.44		16.90	8.89E-01	8.89E-01	9.09E-02	4.30E-01
		62.85		4.60	1.65E+00		1.54E+00	7.90E-01
		67.67		0.37	1.81E+01		1.38E+01	8.65E+00
	PA-231	283.67		1.60	4.58E+00	3.31E+00	5.54E-01	2.15E+00
		302.67		2.30	3.31E+00		-1.14E+00	1.55E+00
	TH-231	25.64		14.70	2.57E+01	9.13E-01	2.43E+01	1.24E+01
		84.21		6.40	9.13E-01		3.51E-01	4.37E-01
	PA-233	311.98		38.60	4.14E-01	4.14E-01	1.15E-01	1.94E-01
	PA-234	131.20		20.40	3.31E-01	3.31E-01	5.89E-02	1.59E-01
		733.99		8.80	1.13E+00		8.98E-02	5.15E-01
		946.00		12.00	9.91E-01		4.01E-01	4.50E-01
	PA-234M	1001.03		0.92	1.08E+01	1.08E+01	-1.28E+00	4.78E+00
	TH-234	63.29		3.80	1.98E+00	1.98E+00	1.86E+00	9.49E-01
	U-235	143.76		10.50	6.80E-01	6.80E-01	2.09E-01	3.26E-01
		163.35		4.70	1.50E+00		4.57E-01	7.19E-01
		205.31		4.70	1.57E+00		2.84E-02	7.49E-01
	NP-237	86.50		12.60	6.38E-01	6.38E-01	-3.49E-01	3.09E-01
	NP-239	106.10		22.70	1.85E+03	1.85E+03	7.03E+02	8.86E+02
		228.18		10.70	4.71E+03		1.51E+03	2.23E+03
		277.60		14.10	3.81E+03		2.06E+03	1.79E+03
	AM-241	59.54		35.90	1.91E-01	1.91E-01	-3.04E-02	9.11E-02
	AM-243	74.67		66.00	1.25E-01	1.25E-01	-1.64E-01	6.03E-02
	CM-243	209.75		3.29	2.46E+00	5.46E-01	1.32E+00	1.17E+00
		228.14		10.60	6.77E-01		2.17E-01	3.20E-01
		277.60		14.00	5.46E-01		2.96E-01	2.57E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506114-08

FEEBRIS1D-02.027-030

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-02.027-030

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	3	176
9:	586	1094	768	374	834	1568	194	110
17:	113	100	99	94	97	82	97	71
25:	107	87	72	61	79	61	72	83
33:	73	70	69	80	87	81	82	106
41:	100	88	74	82	79	107	135	99
49:	87	124	81	105	76	77	74	80
57:	73	61	47	50	40	43	65	86
65:	46	45	54	67	53	40	47	48
73:	52	57	157	94	192	167	47	44
81:	40	47	41	62	62	47	84	92
89:	38	82	60	67	133	79	41	45
97:	44	29	48	40	37	31	22	25
105:	44	35	22	43	34	33	31	28
113:	27	35	30	42	32	32	28	29
121:	28	44	30	30	21	31	26	39
129:	44	41	27	33	40	32	32	39
137:	34	29	41	39	30	33	38	42
145:	32	43	36	25	36	40	27	37
153:	27	24	26	33	40	28	24	29
161:	21	29	38	36	34	27	23	25
169:	20	19	27	22	33	19	20	24
177:	18	33	23	29	21	24	20	29
185:	41	86	49	27	18	23	19	27
193:	27	22	22	26	33	25	26	26
201:	20	24	26	23	24	29	26	31
209:	39	37	17	25	22	31	26	22
217:	23	23	28	14	26	20	19	16
225:	18	15	27	15	34	12	17	26
233:	23	21	29	19	28	99	206	36
241:	27	62	36	13	14	16	11	17
249:	20	12	23	13	18	17	23	15
257:	23	11	15	17	15	17	24	17
265:	17	20	12	12	18	24	30	15
273:	18	15	14	22	17	17	15	18
281:	12	15	11	15	14	24	17	16
289:	19	11	18	11	17	17	99	56
297:	13	13	10	31	19	22	11	12
305:	14	12	16	10	15	13	9	14
313:	16	18	9	12	15	19	18	14
321:	10	14	8	20	12	13	21	23
329:	13	19	18	10	15	8	12	14
337:	13	38	33	17	20	11	10	10
345:	10	22	19	9	8	24	57	161
353:	56	10	7	15	17	14	12	15
361:	14	10	13	14	13	14	20	8

369:	12	5	13	6	14	16	14	20

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Channel								
377:	14	10	12	10	8	11	12	14
385:	10	9	10	17	7	6	10	13
393:	9	7	12	11	9	11	13	6
401:	12	9	12	10	10	11	12	15
409:	10	10	14	12	8	10	7	9
417:	14	9	17	7	11	3	8	14
425:	14	7	13	10	4	14	14	10
433:	12	12	12	9	9	7	8	12
441:	4	12	5	7	8	11	7	5
449:	8	7	9	13	10	7	12	5
457:	7	9	10	12	8	13	20	9
465:	10	13	7	8	9	7	9	11
473:	6	10	9	8	8	6	8	6
481:	13	11	5	7	12	5	9	13
489:	12	11	12	5	6	9	5	9
497:	4	6	9	11	3	6	8	6
505:	7	7	7	8	15	33	41	36
513:	16	9	7	8	5	4	9	8
521:	11	8	9	7	4	8	11	4
529:	5	9	5	8	4	9	4	4
537:	5	11	9	9	7	10	7	7
545:	1	10	5	11	6	10	8	5
553:	7	4	9	8	7	6	8	7
561:	9	8	9	9	8	6	8	3
569:	12	7	7	6	5	7	10	4
577:	8	4	4	4	6	24	37	36
585:	9	4	1	9	5	6	9	4
593:	6	7	7	10	5	9	8	8
601:	11	4	10	4	12	3	13	21
609:	80	82	18	11	3	7	3	9
617:	5	5	5	5	8	4	6	9
625:	3	11	5	3	5	4	8	5
633:	3	3	6	5	5	10	6	5
641:	3	8	4	2	6	7	3	7
649:	6	4	8	8	1	5	5	3
657:	1	4	3	11	12	15	7	5
665:	7	11	7	3	6	6	7	5
673:	5	4	4	7	5	2	4	6
681:	8	6	6	7	6	1	5	6
689:	2	3	7	5	3	9	9	6
697:	5	7	7	8	3	4	3	8
705:	5	14	9	9	4	2	3	6
713:	7	6	5	7	5	3	4	3
721:	4	5	7	4	5	8	14	6
729:	1	1	7	2	3	5	4	6
737:	8	10	6	4	6	13	7	11
745:	1	4	4	4	7	2	7	3
753:	5	4	6	4	11	6	8	7
761:	3	2	5	3	2	6	6	15
769:	12	5	1	5	4	3	8	1
777:	4	5	3	6	6	2	12	5
785:	7	10	6	6	5	7	5	3
793:	2	5	10	7	5	9	6	3

801:	7	3	0	4	4	6	5	2

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Channel								
809:	4	5	5	3	5	3	5	3
817:	4	4	5	5	5	7	3	2
825:	1	5	4	2	5	4	2	4
833:	3	4	6	8	2	5	8	4
841:	6	5	4	3	4	4	0	4
849:	3	2	3	4	5	4	4	5
857:	1	6	7	6	3	5	3	3
865:	4	3	4	2	4	4	2	3
873:	5	8	5	4	4	5	5	3
881:	4	1	3	1	2	2	7	4
889:	2	2	4	4	4	7	3	3
897:	3	4	6	5	3	5	4	5
905:	1	6	2	5	3	10	36	25
913:	5	5	3	3	2	5	11	6
921:	2	5	6	5	1	3	1	6
929:	4	5	3	1	7	9	5	6
937:	4	4	2	5	3	4	3	5
945:	5	4	2	1	13	4	1	7
953:	2	6	1	2	7	4	4	2
961:	1	2	5	7	6	2	1	12
969:	13	10	3	7	2	5	5	4
977:	7	3	2	1	4	3	7	4
985:	3	2	2	1	0	3	2	7
993:	9	2	2	5	2	2	2	2
1001:	2	3	7	2	2	4	1	7
1009:	2	4	5	1	3	0	2	2
1017:	3	5	4	2	3	4	3	4
1025:	2	4	1	4	3	6	3	0
1033:	1	2	2	4	5	7	5	5
1041:	5	4	2	6	6	6	1	1
1049:	4	2	5	1	4	3	1	4
1057:	1	3	1	4	3	2	2	4
1065:	0	3	1	0	4	6	3	2
1073:	6	3	2	0	5	2	5	3
1081:	5	6	0	7	1	5	4	2
1089:	0	2	4	4	2	3	7	6
1097:	2	5	1	2	2	1	3	1
1105:	4	3	6	2	3	1	3	3
1113:	2	5	0	3	4	2	13	23
1121:	9	3	2	4	5	3	5	4
1129:	3	0	7	4	2	2	1	3
1137:	0	6	4	7	4	4	5	6
1145:	1	1	4	4	1	4	3	4
1153:	5	3	3	6	2	4	2	4
1161:	1	2	4	2	6	2	3	3
1169:	2	1	1	6	2	11	5	2
1177:	3	3	2	3	3	2	2	3
1185:	4	1	3	3	1	4	4	6
1193:	5	4	5	1	3	3	4	2
1201:	5	3	5	1	2	2	1	3
1209:	2	6	2	5	3	3	6	4
1217:	4	5	6	4	2	1	4	2
1225:	4	6	3	4	2	3	5	3

1233:	1	2	6	3	12	4	5	4

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Channel								
1241:	4	5	1	2	2	4	4	1
1249:	6	0	1	0	4	5	5	7
1257:	6	4	2	1	3	3	2	4
1265:	1	3	4	2	1	3	3	0
1273:	3	0	4	1	1	1	3	7
1281:	4	4	3	3	3	3	6	2
1289:	1	2	2	1	4	0	1	1
1297:	2	1	2	0	1	4	2	3
1305:	3	1	2	3	1	3	1	1
1313:	0	1	0	2	5	3	5	6
1321:	3	2	2	3	1	3	0	0
1329:	3	1	4	1	3	1	2	0
1337:	0	2	1	0	1	2	3	3
1345:	1	0	0	0	1	2	2	4
1353:	2	4	1	1	2	1	3	6
1361:	1	3	3	1	3	2	4	1
1369:	0	1	1	1	0	3	0	3
1377:	5	1	3	3	5	3	1	0
1385:	1	4	2	1	3	4	0	1
1393:	2	1	2	1	1	2	1	3
1401:	2	3	1	0	2	5	4	2
1409:	3	2	3	0	0	4	0	3
1417:	1	1	1	2	1	1	1	0
1425:	1	0	0	3	0	2	3	2
1433:	1	1	1	1	1	0	3	1
1441:	3	1	1	1	0	5	2	2
1449:	2	1	0	1	1	1	2	1
1457:	3	6	24	81	78	45	8	3
1465:	0	1	1	1	5	1	1	2
1473:	1	2	0	1	1	3	2	2
1481:	1	3	2	1	0	3	1	1
1489:	0	2	0	0	2	0	2	0
1497:	2	0	0	1	2	3	0	0
1505:	1	2	3	3	2	3	4	0
1513:	2	1	0	1	1	0	0	0
1521:	2	0	3	3	2	2	2	0
1529:	1	0	0	0	0	0	0	2
1537:	0	3	1	2	3	0	1	0
1545:	1	0	1	2	1	1	2	0
1553:	0	1	2	1	4	1	1	1
1561:	2	0	1	0	0	1	1	1
1569:	0	1	2	4	2	1	0	2
1577:	0	0	1	4	0	2	2	1
1585:	0	1	3	2	1	2	2	0
1593:	2	0	1	1	0	2	1	0
1601:	1	1	1	2	1	0	3	2
1609:	3	0	0	2	2	0	1	1
1617:	2	1	1	2	1	4	3	0
1625:	2	0	2	1	2	2	4	1
1633:	2	0	0	3	1	0	0	1
1641:	1	0	1	0	0	0	1	0
1649:	0	0	2	1	0	2	1	1
1657:	0	1	0	2	3	1	1	1

1665:	1	0	0	0	2	2	1	0

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Channel								
1673:	1	0	1	0	0	0	0	0
1681:	0	0	0	2	0	0	0	0
1689:	1	1	0	0	2	0	0	0
1697:	2	0	1	1	0	4	0	0
1705:	1	0	3	0	0	2	1	0
1713:	1	0	0	0	2	1	0	2
1721:	0	1	0	2	0	0	2	2
1729:	4	0	0	0	1	0	0	2
1737:	0	0	0	1	1	1	0	1
1745:	0	0	1	0	0	2	0	0
1753:	0	0	1	0	1	0	0	2
1761:	1	2	6	20	10	5	1	1
1769:	1	0	0	2	1	0	1	1
1777:	1	2	0	0	0	2	2	0
1785:	0	1	1	0	0	0	1	0
1793:	0	0	0	0	2	0	0	2
1801:	2	0	1	2	2	2	1	1
1809:	0	0	1	0	2	1	1	1
1817:	0	0	1	1	0	2	0	0
1825:	2	1	0	1	0	1	0	0
1833:	1	1	0	2	2	0	2	0
1841:	0	2	1	0	0	2	1	4
1849:	2	0	1	1	1	0	0	0
1857:	0	1	1	0	3	2	1	0
1865:	0	2	0	0	2	0	1	0
1873:	1	2	1	0	0	0	1	0
1881:	0	1	0	0	1	0	1	2
1889:	0	2	2	1	0	1	2	1
1897:	1	0	0	0	1	0	1	0
1905:	0	0	0	0	1	1	0	1
1913:	0	0	1	1	1	0	0	1
1921:	0	0	0	1	1	1	1	3
1929:	0	0	0	0	2	1	0	1
1937:	1	0	0	0	1	0	0	0
1945:	0	0	3	0	1	0	0	0
1953:	1	0	1	0	1	0	1	0
1961:	0	0	1	0	2	1	1	2
1969:	0	0	2	1	0	0	1	0
1977:	0	0	1	0	2	1	1	0
1985:	0	0	0	1	0	1	0	0
1993:	0	0	0	0	2	1	1	0
2001:	2	0	0	0	0	0	0	0
2009:	0	0	1	1	1	1	0	0
2017:	0	0	1	0	3	2	1	0
2025:	1	2	0	2	0	0	0	0
2033:	1	0	0	3	0	0	0	0
2041:	0	1	2	0	0	0	1	1
2049:	1	2	1	3	3	0	0	2
2057:	0	1	1	1	0	0	1	2
2065:	0	0	0	0	0	0	2	0
2073:	0	0	0	1	1	0	2	0
2081:	3	0	1	0	0	0	0	0
2089:	1	0	0	0	1	1	0	1

2097:	1	1	0	0	1	1	2	1

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Channel								
2105:	2	2	1	1	0	0	0	0
2113:	0	3	1	2	0	1	1	2
2121:	2	0	0	0	0	3	1	2
2129:	1	0	0	0	1	0	0	0
2137:	0	0	1	0	1	1	0	0
2145:	2	2	1	1	0	0	0	0
2153:	0	1	0	1	1	1	0	0
2161:	1	0	1	0	0	0	2	0
2169:	0	0	0	0	2	0	0	1
2177:	0	1	1	0	0	2	1	0
2185:	0	0	0	0	0	0	1	0
2193:	1	0	1	0	0	1	0	1
2201:	1	3	4	6	3	1	2	0
2209:	0	1	1	1	2	0	0	0
2217:	0	0	0	1	2	2	0	1
2225:	1	0	0	0	0	0	0	0
2233:	0	1	0	0	0	0	1	1
2241:	0	0	4	3	0	0	0	2
2249:	3	0	0	1	1	0	2	1
2257:	0	0	0	3	0	0	0	1
2265:	0	1	1	2	0	0	0	0
2273:	0	0	3	1	0	1	0	0
2281:	3	1	2	0	0	0	2	0
2289:	0	2	1	1	0	2	0	0
2297:	1	0	2	0	0	0	1	0
2305:	0	0	0	3	2	0	0	1
2313:	0	0	1	1	0	2	0	1
2321:	1	1	1	0	1	0	1	0
2329:	0	0	0	2	0	1	1	0
2337:	0	1	0	0	0	0	0	0
2345:	2	0	0	0	0	2	0	1
2353:	1	1	0	0	0	0	1	1
2361:	0	1	3	0	0	0	1	0
2369:	0	0	1	1	1	0	1	0
2377:	0	0	0	0	1	0	0	0
2385:	0	0	0	0	1	0	3	0
2393:	1	0	0	1	0	0	0	1
2401:	3	1	1	0	1	0	0	0
2409:	3	0	0	0	0	1	0	0
2417:	0	0	1	0	0	1	1	0
2425:	0	0	1	0	0	0	0	4
2433:	1	0	0	0	0	2	1	1
2441:	0	0	2	0	3	2	2	1
2449:	0	0	0	0	0	0	0	1
2457:	0	0	0	0	2	1	0	0
2465:	0	0	0	0	0	0	0	1
2473:	1	1	0	2	0	0	0	0
2481:	0	2	0	1	0	0	1	1
2489:	0	0	0	0	0	1	0	1
2497:	0	0	0	0	0	0	1	0
2505:	0	0	0	0	0	0	0	1
2513:	0	0	0	0	0	0	2	0
2521:	1	0	0	1	0	1	1	0

2529:	0	1	0	0	0	0	0	0

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Channel								
2537:	0	1	0	0	0	0	0	0
2545:	0	0	0	0	0	2	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	1	0	0	0	0	0	0
2569:	1	0	1	0	1	0	1	1
2577:	0	0	0	0	1	0	0	0
2585:	0	0	1	0	0	1	0	0
2593:	0	0	0	0	0	0	0	1
2601:	1	0	2	0	0	0	0	1
2609:	1	0	1	4	12	13	7	3
2617:	0	1	2	0	0	0	0	0
2625:	1	0	0	1	0	0	0	1
2633:	0	0	0	1	1	0	0	1
2641:	2	0	0	0	1	1	0	0
2649:	0	0	0	0	1	0	0	0
2657:	0	0	0	1	0	0	0	1
2665:	0	1	0	0	0	0	1	0
2673:	0	1	0	0	0	0	0	1
2681:	0	0	0	0	0	0	0	1
2689:	0	0	0	0	1	0	0	0
2697:	2	0	0	1	0	0	0	0
2705:	0	1	1	0	0	1	0	0
2713:	0	0	0	0	1	0	1	1
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	1
2737:	1	1	0	0	0	0	0	0
2745:	0	0	0	1	0	0	2	0
2753:	0	0	0	1	0	0	0	0
2761:	1	0	0	0	0	1	0	2
2769:	1	1	0	0	0	0	0	0
2777:	0	0	0	0	0	1	0	1
2785:	0	1	0	0	0	1	2	0
2793:	0	0	0	0	0	1	0	0
2801:	0	1	1	0	0	1	1	0
2809:	0	0	0	0	0	0	0	1
2817:	0	0	0	0	0	0	0	0
2825:	1	0	0	0	0	1	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	1	1	0	0	1	0	0
2857:	0	1	0	0	0	2	3	1
2865:	0	1	0	0	0	1	0	0
2873:	0	1	1	0	0	0	1	0
2881:	0	1	1	1	0	1	0	0
2889:	1	0	0	0	0	0	0	0
2897:	0	0	0	2	0	0	0	0
2905:	1	0	0	0	1	0	0	0
2913:	0	0	1	0	0	0	1	0
2921:	0	0	0	0	0	0	1	0
2929:	0	0	0	0	0	1	0	0
2937:	0	1	0	1	0	1	0	0
2945:	0	0	0	1	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	2	1	0	0	0	0	0	0

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Channel								
2969:	0	0	1	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	1	0	0	0	0
2993:	2	0	1	0	0	1	0	1
3001:	0	0	0	0	0	0	1	0
3009:	1	0	0	1	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	1	0
3033:	0	0	1	0	0	0	0	0
3041:	0	1	0	0	0	0	0	0
3049:	0	0	1	0	1	1	1	0
3057:	0	0	0	0	0	0	0	0
3065:	1	1	0	0	1	0	0	0
3073:	0	1	0	0	0	0	1	0
3081:	0	0	0	0	1	0	1	1
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	1	0
3105:	0	0	1	0	0	0	0	1
3113:	0	0	0	1	0	2	0	0
3121:	0	0	0	0	0	0	0	0
3129:	1	0	0	0	2	0	1	0
3137:	0	0	0	0	0	0	0	0
3145:	0	1	0	0	0	0	0	0
3153:	1	0	1	0	1	1	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	1	0	0	0	1
3177:	1	0	0	0	0	0	0	0
3185:	1	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	1
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	1	0	0	0	0	0	0
3225:	0	0	0	0	1	1	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	1	1	1	0	0
3249:	0	1	0	0	0	1	0	0
3257:	1	0	1	0	0	0	1	0
3265:	0	0	1	1	1	0	0	0
3273:	0	0	0	1	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	1	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	2	0	0	0
3321:	0	1	0	0	0	1	1	0
3329:	0	0	0	0	0	0	0	0
3337:	1	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	1	0	1	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	1
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	2	0	0

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Channel								
3401:	0	0	1	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	1	1	0	0	1	1	0	0
3449:	0	0	0	0	1	1	0	0
3457:	0	0	1	0	0	0	0	0
3465:	1	1	0	1	0	1	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	1	0	0
3489:	0	0	0	1	0	1	0	1
3497:	0	0	0	0	1	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	1	0	0
3545:	0	0	0	0	0	1	0	1
3553:	0	0	0	0	0	2	0	1
3561:	0	0	0	0	0	0	1	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	1	0	1	0	0
3585:	0	0	0	0	1	0	0	0
3593:	0	0	0	0	0	0	1	0
3601:	0	0	0	1	0	1	0	0
3609:	1	0	0	0	0	0	1	0
3617:	0	0	0	1	0	0	0	1
3625:	0	0	0	0	0	0	0	1
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	1	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	1	0	0	0	0	0
3673:	0	0	0	0	0	1	0	0
3681:	0	1	0	0	0	0	1	0
3689:	0	0	0	0	0	0	0	0
3697:	1	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	1	0	0	0	0	0	0
3729:	0	0	0	0	0	0	1	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	1	0	1	0	0	0
3761:	0	0	0	0	0	1	0	0
3769:	0	0	0	1	1	0	1	0
3777:	0	0	0	0	0	1	0	0
3785:	0	2	0	0	0	2	0	0
3793:	2	0	0	0	0	1	1	0
3801:	1	0	0	0	0	0	0	1
3809:	1	0	0	0	0	0	1	0
3817:	0	1	0	0	0	0	0	1

3825:	0	0	0	0	0	0	0	0

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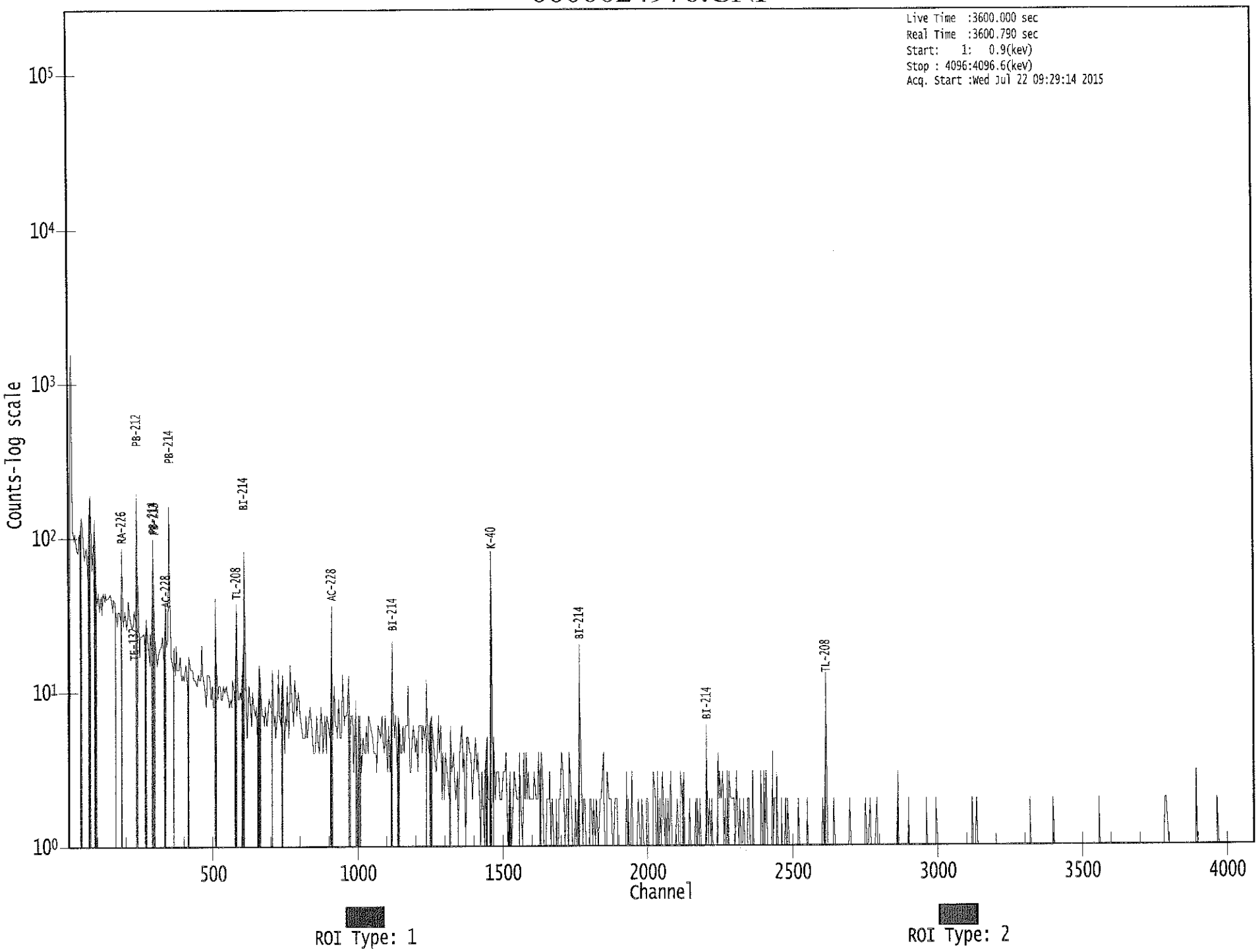
Channel								
3833:	1	0	1	0	0	0	0	0
3841:	1	0	0	1	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	1	0	0	0	0	1	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	1	0	0	1	0
3881:	0	0	1	0	0	0	0	0
3889:	0	0	0	0	0	3	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	1	0	0	1	0	0
3913:	0	1	1	0	0	0	1	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	1	0	0	1	0	0
3937:	0	0	0	0	0	0	0	0
3945:	1	0	0	0	1	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	2	0	1	0
3969:	0	0	1	0	0	0	0	1
3977:	0	1	0	0	0	0	1	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	1	0	0	0	0	0
4001:	0	1	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	1	0	0	0	0	0
4025:	0	0	1	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	1	0	1	0	0	0
4049:	0	0	0	1	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	1	0	0
4073:	0	0	1	0	0	0	0	0
4081:	0	0	0	0	0	1	0	0
4089:	0	0	0	0	0	0	1	0

0000024976.CNF



KB 7/22/15

Apex-Gamma

Analysis Report for 1506114-09
FEEBRIS1D-02.020-023

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-09
Sample Description	: FEEBRIS1D-02.020-023
Sample Type	: SOIL
Sample Size	: 5.548E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:39:40AM
Acquisition Started	: 7/22/2015 9:29:22AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3615.3 seconds
Dead Time	: 0.42 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24977

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 10:29:43AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	76.26	76.48	0.0000	0.00
2	92.81	93.02	0.0000	0.00
3	130.88	131.07	0.0000	0.00
4	185.89	186.05	0.0000	0.00
5	238.75	238.88	0.0000	0.00
6	242.00	242.13	0.0000	0.00
7	270.08	270.19	0.0000	0.00
8	276.80	276.91	0.0000	0.00
9	295.77	295.87	0.0000	0.00
10	338.56	338.64	0.0000	0.00
11	352.13	352.20	0.0000	0.00
12	462.90	462.92	0.0000	0.00
13	510.76	510.76	0.0000	0.00
14	579.20	579.15	0.0000	0.00
15	583.47	583.42	0.0000	0.00
16	602.47	602.42	0.0000	0.00
17	609.64	609.59	0.0000	0.00
18	613.48	613.42	0.0000	0.00
19	727.87	727.76	0.0000	0.00
20	743.48	743.36	0.0000	0.00
21	768.08	767.95	0.0000	0.00
22	795.30	795.16	0.0000	0.00
23	818.01	817.85	0.0000	0.00
24	911.41	911.22	0.0000	0.00
25	969.06	968.83	0.0000	0.00
26	1120.80	1120.51	0.0000	0.00
27	1238.20	1237.87	0.0000	0.00
28	1264.74	1264.39	0.0000	0.00
29	1298.15	1297.79	0.0000	0.00
30	1377.79	1377.40	0.0000	0.00
31	1386.50	1386.11	0.0000	0.00
32	1403.64	1403.24	0.0000	0.00
33	1408.39	1407.99	0.0000	0.00
34	1461.18	1460.76	0.0000	0.00
35	1464.66	1464.24	0.0000	0.00
36	1586.52	1586.05	0.0000	0.00
37	1592.47	1592.00	0.0000	0.00
38	1627.34	1626.86	0.0000	0.00
39	1631.39	1630.91	0.0000	0.00
40	1646.38	1645.90	0.0000	0.00
41	1756.96	1756.43	0.0000	0.00
42	1764.74	1764.21	0.0000	0.00

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1826.13	1825.58	0.0000	0.00
44	2103.64	2103.00	0.0000	0.00
45	2128.12	2127.48	0.0000	0.00
46	2204.67	2204.00	0.0000	0.00
47	2364.71	2364.00	0.0000	0.00
48	2447.13	2446.39	0.0000	0.00
49	2615.10	2614.32	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:29:43AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	76.26	71	83	76.48	8.54E+02	166.11	2.86E+03	3.67
	2	92.81	90	96	93.02	2.75E+02	88.34	1.18E+03	1.82
	3	130.88	127	134	131.07	8.24E+01	77.46	9.31E+02	3.47
	4	185.89	182	189	186.05	1.66E+02	70.40	7.15E+02	1.47
M	5	238.75	233	247	238.88	6.45E+02	67.34	3.78E+02	1.85
m	6	242.00	233	247	242.13	1.54E+02	65.05	3.13E+02	1.89
	7	270.08	267	274	270.19	6.04E+01	52.38	4.19E+02	2.11
	8	276.80	274	279	276.91	4.06E+01	39.90	2.83E+02	2.58
	9	295.77	292	301	295.87	2.24E+02	63.70	4.56E+02	1.91
	10	338.56	333	344	338.64	1.40E+02	63.28	4.26E+02	1.92
	11	352.13	348	356	352.20	3.72E+02	62.33	3.69E+02	1.66
	12	462.90	458	467	462.92	5.49E+01	42.39	2.26E+02	1.55
	13	510.76	506	515	510.76	1.16E+02	43.60	2.07E+02	2.32
M	14	579.20	577	589	579.15	1.69E+01	20.38	7.50E+01	2.40
m	15	583.47	577	589	583.42	1.81E+02	35.71	1.05E+02	2.29
M	16	602.47	597	617	602.42	2.58E+01	28.80	1.32E+02	2.92
m	17	609.64	597	617	609.59	3.08E+02	39.92	7.30E+01	2.32
m	18	613.48	597	617	613.42	2.79E+01	33.37	4.79E+01	2.42
	19	727.87	724	733	727.76	5.51E+01	36.15	1.56E+02	1.88
	20	743.48	739	747	743.36	3.29E+01	26.63	8.63E+01	3.69
	21	768.08	765	771	767.95	1.98E+01	24.96	1.00E+02	1.96
	22	795.30	792	799	795.16	3.17E+01	25.30	8.07E+01	2.76
	23	818.01	814	822	817.85	2.32E+01	22.35	6.16E+01	1.63
	24	911.41	905	917	911.22	1.25E+02	37.92	1.09E+02	2.47
	25	969.06	965	973	968.83	3.34E+01	33.72	1.47E+02	1.95
	26	1120.80	1117	1123	1120.51	6.16E+01	23.49	5.48E+01	2.47
	27	1238.20	1234	1242	1237.87	4.27E+01	27.95	9.26E+01	1.73
	28	1264.74	1263	1267	1264.39	8.50E+00	11.84	2.50E+01	1.29
	29	1298.15	1294	1302	1297.79	2.85E+01	17.01	2.70E+01	5.71
	30	1377.79	1373	1381	1377.40	2.26E+01	18.82	4.07E+01	1.91
	31	1386.50	1382	1391	1386.11	1.39E+01	15.94	2.42E+01	2.47
M	32	1403.64	1402	1411	1403.24	1.10E+01	4.80	2.20E+00	2.63
m	33	1408.39	1402	1411	1407.99	1.79E+01	11.31	1.29E+01	2.63
M	34	1461.18	1455	1471	1460.76	4.18E+02	42.10	2.01E+01	2.64
m	35	1464.66	1455	1471	1464.24	1.61E+01	40.30	2.29E+01	2.66
	36	1586.52	1581	1590	1586.05	1.16E+01	14.87	2.48E+01	7.66
	37	1592.47	1591	1595	1592.00	7.00E+00	8.54	1.00E+01	1.20
M	38	1627.34	1624	1633	1626.86	1.13E+01	7.09	3.75E+00	3.63
m	39	1631.39	1624	1633	1630.91	9.12E+00	7.55	1.10E+00	3.30
	40	1646.38	1642	1649	1645.90	8.15E+00	7.48	3.70E+00	2.91

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1756.96	1753 -	1759	1756.43	7.00E+00	5.29	0.00E+00	2.74
42	1764.74	1760 -	1768	1764.21	3.46E+01	12.97	4.73E+00	3.76
43	1826.13	1822 -	1828	1825.58	8.25E+00	7.23	3.50E+00	1.38
44	2103.64	2097 -	2108	2103.00	2.50E+01	10.00	0.00E+00	3.22
45	2128.12	2122 -	2131	2127.48	1.05E+01	8.77	5.08E+00	3.66
46	2204.67	2201 -	2207	2204.00	1.90E+01	8.72	0.00E+00	1.80
47	2364.71	2361 -	2366	2364.00	5.00E+00	4.47	0.00E+00	2.98
48	2447.13	2443 -	2448	2446.39	4.43E+00	6.78	5.14E+00	1.35
49	2615.10	2610 -	2618	2614.32	6.20E+01	15.75	0.00E+00	1.95

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:29:43AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	76.26	71 -	83	8.54E+02	166.11	2.86E+03	1.28E+02
	2	92.81	90 -	96	2.75E+02	88.34	1.18E+03	6.73E+01
	3	130.88	127 -	134	8.24E+01	77.46	9.31E+02	6.19E+01
	4	185.89	182 -	189	1.66E+02	70.40	7.15E+02	5.39E+01
M	5	238.75	233 -	247	6.45E+02	67.34	3.78E+02	3.19E+01
m	6	242.00	233 -	247	1.54E+02	65.05	3.13E+02	2.91E+01
	7	270.08	267 -	274	6.04E+01	52.38	4.19E+02	4.11E+01
	8	276.80	274 -	279	4.06E+01	39.90	2.83E+02	3.11E+01
	9	295.77	292 -	301	2.24E+02	63.70	4.56E+02	4.62E+01
	10	338.56	333 -	344	1.40E+02	63.28	4.26E+02	4.82E+01
	11	352.13	348 -	356	3.72E+02	62.33	3.69E+02	4.03E+01
	12	462.90	458 -	467	5.49E+01	42.39	2.26E+02	3.26E+01
	13	510.76	506 -	515	1.16E+02	43.60	2.07E+02	3.12E+01
M	14	579.20	577 -	589	1.69E+01	20.38	7.50E+01	1.42E+01
m	15	583.47	577 -	589	1.81E+02	35.71	1.05E+02	1.68E+01
M	16	602.47	597 -	617	2.58E+01	28.80	1.32E+02	1.89E+01
m	17	609.64	597 -	617	3.08E+02	39.92	7.30E+01	1.40E+01
m	18	613.48	597 -	617	2.79E+01	33.37	4.79E+01	1.14E+01

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	19	727.87	724 -	733	5.51E+01	36.15	1.56E+02	2.71E+01
	20	743.48	739 -	747	3.29E+01	26.63	8.63E+01	1.98E+01
	21	768.08	765 -	771	1.98E+01	24.96	1.00E+02	1.92E+01
	22	795.30	792 -	799	3.17E+01	25.30	8.07E+01	1.86E+01
	23	818.01	814 -	822	2.32E+01	22.35	6.16E+01	1.66E+01
	24	911.41	905 -	917	1.25E+02	37.92	1.09E+02	2.52E+01
	25	969.06	965 -	973	3.34E+01	33.72	1.47E+02	2.60E+01
	26	1120.80	1117 -	1123	6.16E+01	23.49	5.48E+01	1.44E+01
	27	1238.20	1234 -	1242	4.27E+01	27.95	9.26E+01	2.03E+01
	28	1264.74	1263 -	1267	8.50E+00	11.84	2.50E+01	8.47E+00
	29	1298.15	1294 -	1302	2.85E+01	17.01	2.70E+01	1.09E+01
	30	1377.79	1373 -	1381	2.26E+01	18.82	4.07E+01	1.33E+01
	31	1386.50	1382 -	1391	1.39E+01	15.94	2.42E+01	1.16E+01
M	32	1403.64	1402 -	1411	1.10E+01	4.80	2.20E+00	2.44E+00
m	33	1408.39	1402 -	1411	1.79E+01	11.31	1.29E+01	5.91E+00
M	34	1461.18	1455 -	1471	4.18E+02	42.10	2.01E+01	7.37E+00
m	35	1464.66	1455 -	1471	1.61E+01	40.30	2.29E+01	7.87E+00
	36	1586.52	1581 -	1590	1.16E+01	14.87	2.48E+01	1.09E+01
	37	1592.47	1591 -	1595	7.00E+00	8.54	1.00E+01	5.51E+00
M	38	1627.34	1624 -	1633	1.13E+01	7.09	3.75E+00	3.18E+00
m	39	1631.39	1624 -	1633	9.12E+00	7.55	1.10E+00	1.72E+00
	40	1646.38	1642 -	1649	8.15E+00	7.48	3.70E+00	3.98E+00
	41	1756.96	1753 -	1759	7.00E+00	5.29	0.00E+00	0.00E+00
	42	1764.74	1760 -	1768	3.46E+01	12.97	4.73E+00	4.48E+00
	43	1826.13	1822 -	1828	8.25E+00	7.23	3.50E+00	3.61E+00
	44	2103.64	2097 -	2108	2.50E+01	10.00	0.00E+00	0.00E+00
	45	2128.12	2122 -	2131	1.05E+01	8.77	5.08E+00	4.87E+00
	46	2204.67	2201 -	2207	1.90E+01	8.72	0.00E+00	0.00E+00
	47	2364.71	2361 -	2366	5.00E+00	4.47	0.00E+00	0.00E+00
	48	2447.13	2443 -	2448	4.43E+00	6.78	5.14E+00	4.37E+00
	49	2615.10	2610 -	2618	6.20E+01	15.75	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 10:29:43AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	76.26	71 -	83	76.48	8.54E+02	166.11	2.86E+03	.....
	2	92.81	90 -	96	93.02	2.75E+02	88.34	1.18E+03	GA-67
	3	130.88	127 -	134	131.07	8.24E+01	77.46	9.31E+02	PA-234
	4	185.89	182 -	189	186.05	1.66E+02	70.40	7.15E+02	RA-226
M	5	238.75	233 -	247	238.88	6.45E+02	67.34	3.78E+02	PB-212
m	6	242.00	233 -	247	242.13	1.54E+02	65.05	3.13E+02	.....
	7	270.08	267 -	274	270.19	6.04E+01	52.38	4.19E+02	.....
	8	276.80	274 -	279	276.91	4.06E+01	39.90	2.83E+02	CM-243 NP-239
	9	295.77	292 -	301	295.87	2.24E+02	63.70	4.56E+02	PB-214
	10	338.56	333 -	344	338.64	1.40E+02	63.28	4.26E+02	AC-228
	11	352.13	348 -	356	352.20	3.72E+02	62.33	3.69E+02	PB-214
	12	462.90	458 -	467	462.92	5.49E+01	42.39	2.26E+02	SB-125
	13	510.76	506 -	515	510.76	1.16E+02	43.60	2.07E+02	.....
M	14	579.20	577 -	589	579.15	1.69E+01	20.38	7.50E+01	.....
m	15	583.47	577 -	589	583.42	1.81E+02	35.71	1.05E+02	TL-208
M	16	602.47	597 -	617	602.42	2.58E+01	28.80	1.32E+02	SB-124
m	17	609.64	597 -	617	609.59	3.08E+02	39.92	7.30E+01	BI-214
m	18	613.48	597 -	617	613.42	2.79E+01	33.37	4.79E+01	AG-108M
	19	727.87	724 -	733	727.76	5.51E+01	36.15	1.56E+02	BI-212
	20	743.48	739 -	747	743.36	3.29E+01	26.63	8.63E+01	.....
	21	768.08	765 -	771	767.95	1.98E+01	24.96	1.00E+02	.....
	22	795.30	792 -	799	795.16	3.17E+01	25.30	8.07E+01	CS-134
	23	818.01	814 -	822	817.85	2.32E+01	22.35	6.16E+01	CS-136
	24	911.41	905 -	917	911.22	1.25E+02	37.92	1.09E+02	AC-228 LU-172
	25	969.06	965 -	973	968.83	3.34E+01	33.72	1.47E+02	AC-228
	26	1120.80	1117 -	1123	1120.51	6.16E+01	23.49	5.48E+01	SC-46 TA-182 BI-214
	27	1238.20	1234 -	1242	1237.87	4.27E+01	27.95	9.26E+01	CO-56
	28	1264.74	1263 -	1267	1264.39	8.50E+00	11.84	2.50E+01	.....
	29	1298.15	1294 -	1302	1297.79	2.85E+01	17.01	2.70E+01	.....
	30	1377.79	1373 -	1381	1377.40	2.26E+01	18.82	4.07E+01	.....
	31	1386.50	1382 -	1391	1386.11	1.39E+01	15.94	2.42E+01	.....
M	32	1403.64	1402 -	1411	1403.24	1.10E+01	4.80	2.20E+00	.....
m	33	1408.39	1402 -	1411	1407.99	1.79E+01	11.31	1.29E+01	EU-152
M	34	1461.18	1455 -	1471	1460.76	4.18E+02	42.10	2.01E+01	K-40
m	35	1464.66	1455 -	1471	1464.24	1.61E+01	40.30	2.29E+01	.....
	36	1586.52	1581 -	1590	1586.05	1.16E+01	14.87	2.48E+01	.....
	37	1592.47	1591 -	1595	1592.00	7.00E+00	8.54	1.00E+01	.....
M	38	1627.34	1624 -	1633	1626.86	1.13E+01	7.09	3.75E+00	.....
m	39	1631.39	1624 -	1633	1630.91	9.12E+00	7.55	1.10E+00	.....
	40	1646.38	1642 -	1649	1645.90	8.15E+00	7.48	3.70E+00	.....
	41	1756.96	1753 -	1759	1756.43	7.00E+00	5.29	0.00E+00	.....
	42	1764.74	1760 -	1768	1764.21	3.46E+01	12.97	4.73E+00	BI-214
	43	1826.13	1822 -	1828	1825.58	8.25E+00	7.23	3.50E+00	.....
	44	2103.64	2097 -	2108	2103.00	2.50E+01	10.00	0.00E+00	.....
	45	2128.12	2122 -	2131	2127.48	1.05E+01	8.77	5.08E+00	.....
	46	2204.67	2201 -	2207	2204.00	1.90E+01	8.72	0.00E+00	BI-214
	47	2364.71	2361 -	2366	2364.00	5.00E+00	4.47	0.00E+00	.....

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
48	2447.13	2443 -	2448	2446.39	4.43E+00	6.78	5.14E+00	.....
49	2615.10	2610 -	2618	2614.32	6.20E+01	15.75	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 10:29:43AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	76.26	8.54E+02	166.11	2.38E-02	2.14E-03
	2	92.81	2.75E+02	88.34	2.44E-02	2.41E-03
	3	130.88	8.24E+01	77.46	2.24E-02	1.69E-03
	4	185.89	1.66E+02	70.40	1.83E-02	1.42E-03
M	5	238.75	6.45E+02	67.34	1.52E-02	1.18E-03
m	6	242.00	1.54E+02	65.05	1.51E-02	1.17E-03
	7	270.08	6.04E+01	52.38	1.38E-02	1.04E-03
	8	276.80	4.06E+01	39.90	1.35E-02	1.01E-03
	9	295.77	2.24E+02	63.70	1.28E-02	9.73E-04
	10	338.56	1.40E+02	63.28	1.14E-02	9.13E-04
	11	352.13	3.72E+02	62.33	1.11E-02	8.93E-04
	12	462.90	5.49E+01	42.39	8.73E-03	7.66E-04
	13	510.76	1.16E+02	43.60	8.01E-03	7.18E-04
M	14	579.20	1.69E+01	20.38	7.18E-03	6.50E-04
m	15	583.47	1.81E+02	35.71	7.14E-03	6.46E-04
M	16	602.47	2.58E+01	28.80	6.94E-03	6.27E-04
m	17	609.64	3.08E+02	39.92	6.87E-03	6.20E-04
m	18	613.48	2.79E+01	33.37	6.83E-03	6.16E-04
	19	727.87	5.51E+01	36.15	5.89E-03	5.14E-04
	20	743.48	3.29E+01	26.63	5.78E-03	5.01E-04
	21	768.08	1.98E+01	24.96	5.62E-03	4.81E-04
	22	795.30	3.17E+01	25.30	5.45E-03	4.59E-04
	23	818.01	2.32E+01	22.35	5.32E-03	4.40E-04
	24	911.41	1.25E+02	37.92	4.85E-03	3.72E-04
	25	969.06	3.34E+01	33.72	4.60E-03	3.61E-04
	26	1120.80	6.16E+01	23.49	4.08E-03	3.33E-04
	27	1238.20	4.27E+01	27.95	3.76E-03	3.09E-04
	28	1264.74	8.50E+00	11.84	3.69E-03	3.03E-04

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	29	1298.15	2.85E+01	17.01	3.61E-03	2.96E-04
	30	1377.79	2.26E+01	18.82	3.45E-03	2.82E-04
	31	1386.50	1.39E+01	15.94	3.43E-03	2.80E-04
M	32	1403.64	1.10E+01	4.80	3.40E-03	2.78E-04
m	33	1408.39	1.79E+01	11.31	3.39E-03	2.77E-04
M	34	1461.18	4.18E+02	42.10	3.29E-03	2.69E-04
m	35	1464.66	1.61E+01	40.30	3.29E-03	2.69E-04
	36	1586.52	1.16E+01	14.87	3.09E-03	2.51E-04
	37	1592.47	7.00E+00	8.54	3.08E-03	2.50E-04
M	38	1627.34	1.13E+01	7.09	3.03E-03	2.44E-04
m	39	1631.39	9.12E+00	7.55	3.03E-03	2.44E-04
	40	1646.38	8.15E+00	7.48	3.01E-03	2.42E-04
	41	1756.96	7.00E+00	5.29	2.87E-03	2.25E-04
	42	1764.74	3.46E+01	12.97	2.86E-03	2.24E-04
	43	1826.13	8.25E+00	7.23	2.79E-03	2.15E-04
	44	2103.64	2.50E+01	10.00	2.54E-03	2.13E-04
	45	2128.12	1.05E+01	8.77	2.52E-03	2.13E-04
	46	2204.67	1.90E+01	8.72	2.46E-03	2.13E-04
	47	2364.71	5.00E+00	4.47	2.36E-03	2.13E-04
	48	2447.13	4.43E+00	6.78	2.32E-03	2.13E-04
	49	2615.10	6.20E+01	15.75	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 10:29:43AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	76.26	8.54E+02	166.11			8.54E+02	1.66E+02
	2	92.81	2.75E+02	88.34	7.60E+01	2.07E+01	1.99E+02	9.07E+01
	3	130.88	8.24E+01	77.46			8.24E+01	7.75E+01
	4	185.89	1.66E+02	70.40	3.41E+01	6.16E+00	1.31E+02	7.07E+01
M	5	238.75	6.45E+02	67.34	1.57E+01	4.91E+00	6.30E+02	6.75E+01
m	6	242.00	1.54E+02	65.05			1.54E+02	6.50E+01
	7	270.08	6.04E+01	52.38			6.04E+01	5.24E+01
	8	276.80	4.06E+01	39.90			4.06E+01	3.99E+01
	9	295.77	2.24E+02	63.70	2.05E+00	6.38E+00	2.22E+02	6.40E+01

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	10	338.56	1.40E+02	63.28			1.40E+02	6.33E+01
	11	352.13	3.72E+02	62.33	8.85E+00	4.53E+00	3.63E+02	6.25E+01
	12	462.90	5.49E+01	42.39			5.49E+01	4.24E+01
	13	510.76	1.16E+02	43.60	6.53E+01	5.06E+00	5.05E+01	4.39E+01
M	14	579.20	1.69E+01	20.38			1.69E+01	2.04E+01
m	15	583.47	1.81E+02	35.71	5.04E+00	3.45E+00	1.76E+02	3.59E+01
M	16	602.47	2.58E+01	28.80			2.58E+01	2.88E+01
m	17	609.64	3.08E+02	39.92	8.51E+00	1.93E+00	2.99E+02	4.00E+01
m	18	613.48	2.79E+01	33.37			2.79E+01	3.34E+01
	19	727.87	5.51E+01	36.15			5.51E+01	3.62E+01
	20	743.48	3.29E+01	26.63			3.29E+01	2.66E+01
	21	768.08	1.98E+01	24.96			1.98E+01	2.50E+01
	22	795.30	3.17E+01	25.30	8.87E-01	3.22E+00	3.08E+01	2.55E+01
	23	818.01	2.32E+01	22.35			2.32E+01	2.23E+01
	24	911.41	1.25E+02	37.92	2.74E+00	2.96E+00	1.23E+02	3.80E+01
	25	969.06	3.34E+01	33.72	1.43E+00	2.58E+00	3.19E+01	3.38E+01
	26	1120.80	6.16E+01	23.49			6.16E+01	2.35E+01
	27	1238.20	4.27E+01	27.95			4.27E+01	2.80E+01
	28	1264.74	8.50E+00	11.84			8.50E+00	1.18E+01
	29	1298.15	2.85E+01	17.01			2.85E+01	1.70E+01
	30	1377.79	2.26E+01	18.82			2.26E+01	1.88E+01
	31	1386.50	1.39E+01	15.94			1.39E+01	1.59E+01
M	32	1403.64	1.10E+01	4.80			1.10E+01	4.80E+00
m	33	1408.39	1.79E+01	11.31			1.79E+01	1.13E+01
M	34	1461.18	4.18E+02	42.10	2.41E+00	1.70E+00	4.16E+02	4.21E+01
m	35	1464.66	1.61E+01	40.30			1.61E+01	4.03E+01
	36	1586.52	1.16E+01	14.87			1.16E+01	1.49E+01
	37	1592.47	7.00E+00	8.54			7.00E+00	8.54E+00
M	38	1627.34	1.13E+01	7.09			1.13E+01	7.09E+00
m	39	1631.39	9.12E+00	7.55			9.12E+00	7.55E+00
	40	1646.38	8.15E+00	7.48			8.15E+00	7.48E+00
	41	1756.96	7.00E+00	5.29			7.00E+00	5.29E+00
	42	1764.74	3.46E+01	12.97			3.46E+01	1.30E+01
	43	1826.13	8.25E+00	7.23			8.25E+00	7.23E+00
	44	2103.64	2.50E+01	10.00			2.50E+01	1.00E+01
	45	2128.12	1.05E+01	8.77			1.05E+01	8.77E+00
	46	2204.67	1.90E+01	8.72			1.90E+01	8.72E+00
	47	2364.71	5.00E+00	4.47			5.00E+00	4.47E+00
	48	2447.13	4.43E+00	6.78			4.43E+00	6.78E+00
	49	2615.10	6.20E+01	15.75			6.20E+01	1.57E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 10:29:43AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	76.26	8.54E+02	166.11			8.54E+02	1.66E+02
	2	92.81	2.75E+02	88.34	7.60E+01	2.07E+01	1.99E+02	9.07E+01
	3	130.88	8.24E+01	77.46			8.24E+01	7.75E+01
	4	185.89	1.66E+02	70.40	3.41E+01	6.16E+00	1.31E+02	7.07E+01
M	5	238.75	6.45E+02	67.34	1.57E+01	4.91E+00	6.30E+02	6.75E+01
m	6	242.00	1.54E+02	65.05			1.54E+02	6.50E+01
	7	270.08	6.04E+01	52.38			6.04E+01	5.24E+01
	8	276.80	4.06E+01	39.90			4.06E+01	3.99E+01
	9	295.77	2.24E+02	63.70	2.05E+00	6.38E+00	2.22E+02	6.40E+01
	10	338.56	1.40E+02	63.28			1.40E+02	6.33E+01
	11	352.13	3.72E+02	62.33	8.85E+00	4.53E+00	3.63E+02	6.25E+01
	12	462.90	5.49E+01	42.39			5.49E+01	4.24E+01
	13	510.76	1.16E+02	43.60	6.53E+01	5.06E+00	5.05E+01	4.39E+01
M	14	579.20	1.69E+01	20.38			1.69E+01	2.04E+01
m	15	583.47	1.81E+02	35.71	5.04E+00	3.45E+00	1.76E+02	3.59E+01
M	16	602.47	2.58E+01	28.80			2.58E+01	2.88E+01
m	17	609.64	3.08E+02	39.92	8.51E+00	1.93E+00	2.99E+02	4.00E+01
m	18	613.48	2.79E+01	33.37			2.79E+01	3.34E+01
	19	727.87	5.51E+01	36.15			5.51E+01	3.62E+01
	20	743.48	3.29E+01	26.63			3.29E+01	2.66E+01
	21	768.08	1.98E+01	24.96			1.98E+01	2.50E+01
	22	795.30	3.17E+01	25.30	8.87E-01	3.22E+00	3.08E+01	2.55E+01
	23	818.01	2.32E+01	22.35			2.32E+01	2.23E+01
	24	911.41	1.25E+02	37.92	2.74E+00	2.96E+00	1.23E+02	3.80E+01
	25	969.06	3.34E+01	33.72	1.43E+00	2.58E+00	3.19E+01	3.38E+01
	26	1120.80	6.16E+01	23.49			6.16E+01	2.35E+01
	27	1238.20	4.27E+01	27.95			4.27E+01	2.80E+01
	28	1264.74	8.50E+00	11.84			8.50E+00	1.18E+01
	29	1298.15	2.85E+01	17.01			2.85E+01	1.70E+01
	30	1377.79	2.26E+01	18.82			2.26E+01	1.88E+01
	31	1386.50	1.39E+01	15.94			1.39E+01	1.59E+01
M	32	1403.64	1.10E+01	4.80			1.10E+01	4.80E+00
m	33	1408.39	1.79E+01	11.31			1.79E+01	1.13E+01
M	34	1461.18	4.18E+02	42.10	2.41E+00	1.70E+00	4.16E+02	4.21E+01
m	35	1464.66	1.61E+01	40.30			1.61E+01	4.03E+01
	36	1586.52	1.16E+01	14.87			1.16E+01	1.49E+01
	37	1592.47	7.00E+00	8.54			7.00E+00	8.54E+00
M	38	1627.34	1.13E+01	7.09			1.13E+01	7.09E+00
m	39	1631.39	9.12E+00	7.55			9.12E+00	7.55E+00
	40	1646.38	8.15E+00	7.48			8.15E+00	7.48E+00
	41	1756.96	7.00E+00	5.29			7.00E+00	5.29E+00

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
42	1764.74	3.46E+01	12.97			3.46E+01	1.30E+01
43	1826.13	8.25E+00	7.23			8.25E+00	7.23E+00
44	2103.64	2.50E+01	10.00			2.50E+01	1.00E+01
45	2128.12	1.05E+01	8.77			1.05E+01	8.77E+00
46	2204.67	1.90E+01	8.72			1.90E+01	8.72E+00
47	2364.71	5.00E+00	4.47			5.00E+00	4.47E+00
48	2447.13	4.43E+00	6.78			4.43E+00	6.78E+00
49	2615.10	6.20E+01	15.75			6.20E+01	1.57E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.978	1460.81	*	10.67	1.60E+01	2.11E+00
GA-67	0.351	93.31	*	35.70	1.85E+02	7.61E+02
		208.95		2.24		
		300.22		16.00		
SB-124	0.459	602.71	*	97.87	7.28E-02	8.14E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
TL-208	0.865	583.14	*	30.22	1.10E+00	2.46E-01
		860.37		4.48		
		2614.66	*	35.85	1.05E+00	2.83E-01
BI-212	0.709	727.17	*	11.80	1.07E+00	7.10E-01
		1620.62		2.75		
PB-212	0.894	238.63	*	44.60	1.26E+00	1.66E-01
		300.09		3.41		
BI-214	0.979	609.31	*	46.30	1.27E+00	2.05E-01
		1120.29	*	15.10	1.35E+00	5.28E-01
		1764.49	*	15.80	1.04E+00	3.97E-01
		2204.22	*	4.98	2.10E+00	9.79E-01
PB-214	0.979	295.21	*	19.19	1.22E+00	3.65E-01
		351.92	*	37.19	1.19E+00	2.27E-01
RA-226	0.984	186.21	*	3.28	2.96E+00	5.66E+00
AC-228	0.989	338.32	*	11.40	1.46E+00	6.67E-01

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AC-228	0.989	911.07	*	27.70	1.23E+00	3.95E-01
		969.11	*	16.60	5.65E-01	6.00E-01
PA-234	0.466	131.20	*	20.40	2.44E-01	2.30E-01
		733.99		8.80		
		946.00		12.00		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:29:43AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.26	2.37210E-01	9.73		
m	6	242.00	4.27441E-02	21.14		
	7	270.08	1.67716E-02	43.38		
	8	276.80	1.12805E-02	49.13	Tol.	NP-239 CM-243
	12	462.90	1.52596E-02	38.58	Tol.	SB-125
	13	510.76	1.40147E-02	43.50		
M	14	579.20	4.68746E-03	60.40		
m	18	613.48	7.74273E-03	59.86	Tol.	AG-108M
	20	743.48	9.12646E-03	40.52	D-Esc	
	21	768.08	5.50000E-03	63.03		
	22	795.30	8.54994E-03	41.43	Sum	
	23	818.01	6.45062E-03	48.12	Tol.	CS-136
	27	1238.20	1.18617E-02	32.73	Tol.	CO-56
	28	1264.74	2.36111E-03	69.66	Sum	
	29	1298.15	7.91667E-03	29.85		
	30	1377.79	6.28553E-03	41.59		
	31	1386.50	3.86752E-03	57.23		
M	32	1403.64	3.06729E-03	21.72		
m	33	1408.39	4.96770E-03	31.63	Tol.	EU-152
m	35	1464.66	4.48413E-03	124.82		
	36	1586.52	3.22338E-03	64.05		
	37	1592.47	1.94444E-03	61.03	D-Esc	
M	38	1627.34	3.13086E-03	31.45		

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

Peak No.		Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	39	1631.39	2.53397E-03	41.38		
	40	1646.38	2.26389E-03	45.91	Sum	
	41	1756.96	1.94444E-03	37.80	Sum	
	43	1826.13	2.29167E-03	43.81		
	44	2103.64	6.94444E-03	20.00	S-Esc	
	45	2128.12	2.90598E-03	41.94		
	47	2364.71	1.38889E-03	44.72		
	48	2447.13	1.23016E-03	76.57		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.60E+01	2.11E+00
GA-67	0.35	93.31	*	35.70	1.85E+02	7.61E+02
		208.95		2.24		
		300.22		16.00		
SB-124	0.45	602.71	*	97.87	7.28E-02	8.14E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
TL-208	0.86	583.14	*	30.22	1.10E+00	2.46E-01
		860.37		4.48		
		2614.66	*	35.85	1.05E+00	2.83E-01
BI-212	0.70	727.17	*	11.80	1.07E+00	7.10E-01
		1620.62		2.75		
PB-212	0.89	238.63	*	44.60	1.26E+00	1.66E-01
		300.09		3.41		
BI-214	0.97	609.31	*	46.30	1.27E+00	2.05E-01
		1120.29	*	15.10	1.35E+00	5.28E-01
		1764.49	*	15.80	1.04E+00	3.97E-01
		2204.22	*	4.98	2.10E+00	9.79E-01
PB-214	0.97	295.21	*	19.19	1.22E+00	3.65E-01

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.97	351.92	*	37.19	1.19E+00	2.27E-01
RA-226	0.98	186.21	*	3.28	2.96E+00	5.66E+00
AC-228	0.98	338.32	*	11.40	1.46E+00	6.67E-01
		911.07	*	27.70	1.23E+00	3.95E-01
		969.11	*	16.60	5.65E-01	6.00E-01
PA-234	0.46	131.20	*	20.40	2.44E-01	2.30E-01
		733.99		8.80		
		946.00		12.00		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.978	1.60E+01	2.11E+00	
GA-67	0.351	1.85E+02	7.61E+02	
SB-124	0.459	7.28E-02	8.14E-02	
TL-208	0.865	1.08E+00	1.86E-01	
BI-212	0.709	1.07E+00	7.10E-01	
PB-212	0.894	1.26E+00	1.66E-01	
BI-214	0.979	1.26E+00	1.70E-01	
PB-214	0.979	1.20E+00	1.93E-01	
RA-226	0.984	2.96E+00	5.66E+00	
AC-228	0.989	1.12E+00	2.96E-01	
PA-234	0.466	2.44E-01	2.30E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:29:43AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.26	2.37210E-01	9.73		
m	6	242.00	4.27441E-02	21.14		
	7	270.08	1.67716E-02	43.38		
	8	276.80	1.12805E-02	49.13	Tol.	NP-239
						CM-243
	12	462.90	1.52596E-02	38.58	Tol.	SB-125
	13	510.76	1.40147E-02	43.50		
M	14	579.20	4.68746E-03	60.40		
m	18	613.48	7.74273E-03	59.86	Tol.	AG-108M
	20	743.48	9.12646E-03	40.52	D-Esc	
	21	768.08	5.50000E-03	63.03		
	22	795.30	8.54994E-03	41.43	Sum	
	23	818.01	6.45062E-03	48.12	Tol.	CS-136
	27	1238.20	1.18617E-02	32.73	Tol.	CO-56
	28	1264.74	2.36111E-03	69.66	Sum	
	29	1298.15	7.91667E-03	29.85		
	30	1377.79	6.28553E-03	41.59		
	31	1386.50	3.86752E-03	57.23		
M	32	1403.64	3.06729E-03	21.72		
m	33	1408.39	4.96770E-03	31.63	Tol.	EU-152
m	35	1464.66	4.48413E-03	124.82		
	36	1586.52	3.22338E-03	64.05		
	37	1592.47	1.94444E-03	61.03	D-Esc	
M	38	1627.34	3.13086E-03	31.45		
m	39	1631.39	2.53397E-03	41.38		
	40	1646.38	2.26389E-03	45.91	Sum	
	41	1756.96	1.94444E-03	37.80	Sum	
	43	1826.13	2.29167E-03	43.81		
	44	2103.64	6.94444E-03	20.00	S-Esc	
	45	2128.12	2.90598E-03	41.94		
	47	2364.71	1.38889E-03	44.72		
	48	2447.13	1.23016E-03	76.57		

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.60E-01	1.01E+00	1.01E+00
+	NA-22	1274.54		99.94	3.47E-02	1.18E-01	1.18E-01
+	NA-24	1368.53		99.99	5.44E+12	1.81E+13	2.75E+13
		2754.09		99.86	3.89E+12		1.81E+13
+	AL-26	1808.65		99.76	1.13E-02	1.00E-01	1.00E-01
+	K-40	1460.81	*	10.67	1.60E+01	1.39E+00	1.39E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-8.29E-03	6.97E-02	6.97E-02
		78.34		96.00	2.25E-01		9.14E-02
+	SC-46	889.25		99.98	1.23E-02	1.15E-01	1.15E-01
		1120.51		99.99	1.95E-01		1.98E-01
+	V-48	983.52		99.98	-9.29E-02	3.19E-01	3.19E-01
		1312.10		97.50	-1.93E-01		4.09E-01
+	CR-51	320.08		9.83	1.72E-01	1.53E+00	1.53E+00
+	MN-54	834.83		99.97	1.64E-03	1.02E-01	1.02E-01
+	CO-56	846.75		99.96	3.87E-02	1.18E-01	1.18E-01
		1037.75		14.03	4.92E-02		8.15E-01
		1238.25		67.00	3.17E-01		3.12E-01
		1771.40		15.51	-3.17E-01		6.33E-01
		2598.48		16.90	-1.55E-02		3.42E-01
+	CO-57	122.06		85.51	-2.18E-02	6.32E-02	6.32E-02
		136.48		10.60	-1.44E-01		5.02E-01
+	CO-58	810.76		99.40	-1.51E-02	1.10E-01	1.10E-01
+	FE-59	1099.22		56.50	1.17E-01	2.93E-01	2.93E-01
		1291.56		43.20	-7.17E-02		4.00E-01
+	CO-60	1173.22		100.00	5.40E-02	1.21E-01	1.21E-01
		1332.49		100.00	6.78E-02		1.21E-01
+	ZN-65	1115.52		50.75	9.04E-03	2.28E-01	2.28E-01
+	GA-67	93.31	*	35.70	1.85E+02	1.35E+02	1.35E+02
		208.95		2.24	3.61E+02		1.87E+03
		300.22		16.00	-1.50E+01		2.64E+02
+	SE-75	121.11		16.70	-3.01E-01	9.98E-02	3.41E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	-2.96E-02	9.98E-02	9.98E-02
		264.65		59.80	9.60E-03		1.30E-01
		279.53		25.20	-2.22E-02		3.14E-01
		400.65		11.40	-6.55E-02		7.35E-01
+	RB-82	776.52		13.00	-2.11E-01	1.55E+00	1.55E+00
+	RB-83	520.41		46.00	1.63E-02	2.14E-01	2.14E-01
		529.64		30.30	-9.18E-03		3.45E-01
		552.65		16.40	-6.66E-02		5.65E-01
+	KR-85	513.99		0.43	-3.10E-01	2.41E+01	2.41E+01
+	SR-85	513.99		99.27	-1.86E-03	1.44E-01	1.44E-01
+	Y-88	898.02		93.40	1.96E-02	7.16E-02	1.23E-01
		1836.01		99.38	-6.46E-03		7.16E-02
+	NB-93M	16.57		9.43	1.66E+01	8.04E+01	8.04E+01
+	NB-94	702.63		100.00	1.22E-02	9.22E-02	9.22E-02
		871.10		100.00	4.56E-02		9.99E-02
+	NB-95	765.79		99.81	-9.45E-03	1.84E-01	1.84E-01
+	NB-95M	235.69		25.00	4.31E+02	1.51E+02	1.51E+02
+	ZR-95	724.18		43.70	2.32E-02	2.31E-01	3.34E-01
		756.72		55.30	-9.13E-03		2.31E-01
+	MO-99	181.06		6.20	-3.87E+02	1.30E+03	1.71E+03
		739.58		12.80	5.45E+01		1.30E+03
		778.00		4.50	1.17E+03		3.99E+03
+	RU-103	497.08		89.00	-2.07E-02	1.37E-01	1.37E-01
+	RU-106	621.84		9.80	5.00E-01	8.83E-01	8.83E-01
+	AG-108M	433.93		89.90	-1.15E-03	7.91E-02	7.91E-02
		614.37		90.40	-4.31E-01		1.03E-01
		722.95		90.50	-7.58E-03		9.71E-02
+	CD-109	88.03		3.72	9.61E-01	1.92E+00	1.92E+00
+	AG-110M	657.75		93.14	6.27E-03	1.01E-01	1.01E-01
		677.61		10.53	8.77E-02		8.16E-01
		706.67		16.46	4.05E-02		5.78E-01
		763.93		21.98	-3.66E-02		4.56E-01
		884.67		71.63	-4.18E-02		1.26E-01
		1384.27		23.94	-1.66E-01		4.89E-01
+	CD-113M	263.70		0.02	-1.25E+01	2.81E+02	2.81E+02
+	SN-113	255.12		1.93	9.80E-01	1.27E-01	4.26E+00
		391.69		64.90	-4.10E-02		1.27E-01
+	TE123M	159.00		84.10	-6.73E-03	7.58E-02	7.58E-02
+	SB-124	602.71	*	97.87	7.28E-02	2.48E-01	2.48E-01
		645.85		7.26	-3.92E-01		1.55E+00
		722.78		11.10	-8.73E-02		1.12E+00
		1691.02		49.00	1.36E-01		2.58E-01
+	I-125	35.49		6.49	-3.93E-01	3.27E+00	3.27E+00
+	SB-125	176.33		6.89	-1.46E-01	2.50E-01	7.97E-01
		427.89		29.33	1.21E-01		2.50E-01
		463.38		10.35	6.97E-01		8.53E-01
		600.56		17.80	1.67E-01		4.85E-01
		635.90		11.32	-2.59E-01		7.20E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70	83.30	-4.08E-02	4.59E-01	4.74E-01
		666.33	99.60	-3.05E-03		4.59E-01
		695.00	99.60	6.33E-02		4.80E-01
		720.50	53.80	-4.27E-02		8.18E-01
+	SN-126	87.57	37.00	9.24E-02	1.84E-01	1.84E-01
+	SB-127	473.00	25.00	2.21E+01	4.91E+01	6.91E+01
		685.20	35.70	-6.82E+00		4.91E+01
		783.80	14.70	-4.78E+01		1.36E+02
+	I-129	29.78	57.00	-2.45E-01	4.61E-01	4.61E-01
		33.60	13.20	2.89E-02		1.35E+00
		39.58	7.52	-3.47E-01		1.53E+00
+	I-131	284.30	6.05	-4.15E+00	1.20E+00	1.41E+01
		364.48	81.20	1.03E-01		1.20E+00
		636.97	7.26	4.09E-01		1.53E+01
		722.89	1.80	-5.10E+00		6.54E+01
+	TE-132	49.72	13.10	-5.95E+02	4.46E+01	3.57E+02
		228.16	88.00	-1.21E+01		4.46E+01
+	BA-133	81.00	33.00	-1.03E+00	1.62E-01	1.85E-01
		302.84	17.80	-2.42E-01		3.93E-01
		356.01	60.00	4.45E-02		1.62E-01
+	I-133	529.87	86.30	-7.20E+07	2.71E+09	2.71E+09
+	CS-134	563.23	8.38	2.36E-01	1.01E-01	1.02E+00
		569.32	15.43	-1.90E-01		5.15E-01
		604.70	97.60	-7.75E-01		1.01E-01
		795.84	85.40	8.54E-02		1.22E-01
		801.93	8.73	-3.23E-01		8.17E-01
+	CS-135	268.24	16.00	3.55E-03	4.55E-01	4.55E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	-1.60E+00	4.31E-01	3.28E+00
		163.89	4.61	-3.49E-01		5.42E+00
		176.55	13.56	4.76E-01		1.96E+00
		273.65	12.66	-4.42E-01		2.80E+00
		340.57	48.50	1.65E+00		8.99E-01
		818.50	99.70	2.86E-01		4.31E-01
		1048.07	79.60	-2.62E-02		5.59E-01
		1235.34	19.70	-3.29E-01		3.71E+00
+	CS-137	661.65	85.12	5.11E-02	1.08E-01	1.08E-01
+	LA-138	788.74	34.00	1.19E-01	1.44E-01	2.83E-01
		1435.80	66.00	3.99E-02		1.44E-01
+	CE-139	165.85	80.35	-3.44E-02	7.18E-02	7.18E-02
+	BA-140	162.64	6.70	-9.83E-01	1.61E+00	3.92E+00
		304.84	4.50	-3.55E+00		7.62E+00
		423.70	3.20	-6.26E+00		1.08E+01
		437.55	2.00	9.45E+00		1.88E+01
		537.32	25.00	8.55E-02		1.61E+00
+	LA-140	328.77	20.50	2.74E-01	5.02E-01	1.82E+00
		487.03	45.50	1.61E-01		8.11E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	815.85	23.50	-9.91E-02	5.02E-01	1.81E+00
		1596.49	95.49	-1.04E-01		5.02E-01
+	CE-141	145.44	48.40	6.54E-02	2.14E-01	2.14E-01
+	CE-143	57.36	11.80	-2.77E+05	8.85E+05	2.27E+06
		293.26	42.00	4.66E+03		8.85E+05
		664.55	5.20	1.65E+06		6.78E+06
+	CE-144	133.54	10.80	-7.85E-02	5.02E-01	5.02E-01
+	PM-144	476.78	42.00	7.74E-03	7.97E-02	1.84E-01
		618.01	98.60	-1.96E-02		7.97E-02
		696.49	99.49	-2.37E-02		9.20E-02
+	PM-145	36.85	21.70	-1.71E-01	3.38E-01	6.25E-01
		37.36	39.70	3.95E-02		3.38E-01
		42.30	15.10	-7.85E-01		6.56E-01
		72.40	2.31	-5.67E+00		3.36E+00
+	PM-146	453.90	39.94	7.40E-02	1.87E-01	1.87E-01
		735.90	14.01	-1.51E-01		5.96E-01
		747.13	13.10	2.10E-02		6.52E-01
+	ND-147	91.11	28.90	-1.06E+00	1.55E+00	1.55E+00
		531.02	13.10	1.04E+00		4.22E+00
+	PM-149	285.90	3.10	-4.16E+03	2.62E+04	2.62E+04
+	EU-152	121.78	20.50	-8.43E-02	2.45E-01	2.45E-01
		244.69	5.40	-1.13E+00		1.42E+00
		344.27	19.13	-2.88E-02		3.42E-01
		778.89	9.20	7.29E-02		9.47E-01
		964.01	10.40	-1.16E-01		1.12E+00
		1085.78	7.22	-1.10E+00		1.13E+00
		1112.02	9.60	3.60E-01		1.19E+00
		1407.95	14.94	1.15E-01		6.58E-01
+	GD-153	97.43	31.30	5.56E-02	1.84E-01	1.84E-01
		103.18	22.20	-9.41E-02		2.47E-01
+	EU-154	123.07	40.50	-5.82E-03	1.27E-01	1.27E-01
		723.30	19.70	-3.50E-02		4.49E-01
		873.19	11.50	-1.00E-01		8.38E-01
		996.32	10.30	-2.69E-01		8.89E-01
		1004.76	17.90	-7.00E-02		5.22E-01
		1274.45	35.50	9.62E-02		3.28E-01
+	EU-155	86.50	30.90	1.37E-01	2.21E-01	2.21E-01
		105.30	20.70	3.07E-02		2.51E-01
+	EU-156	811.77	10.40	-8.15E-01	2.94E+00	2.94E+00
		1153.47	7.20	7.18E-01		6.19E+00
		1230.71	8.90	2.49E+00		6.35E+00
+	HO-166M	184.41	72.60	1.68E-01	9.57E-02	9.57E-02
		280.45	29.60	1.55E-02		2.20E-01
		410.94	11.10	-9.19E-02		6.40E-01
		711.69	54.10	-4.89E-03		1.47E-01
+	TM-171	66.72	0.14	-5.33E+01	4.93E+01	4.93E+01
+	HF-172	81.75	4.52	-3.17E+00	4.92E-01	1.41E+00
		125.81	11.30	2.12E-01		4.92E-01
+	LU-172	181.53	20.60	-1.74E+00	3.85E+00	5.87E+00

Analysis Report for 1506114-09

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-172	810.06		16.63	-1.93E+00	3.85E+00	1.12E+01
		912.12		15.25	4.28E+01		2.43E+01
		1093.66		62.50	1.99E+00		3.85E+00
+	LU-173	100.72		5.24	-9.03E-02	3.67E-01	1.02E+00
		272.11		21.20	9.75E-02		3.67E-01
+	HF-175	343.40		84.00	-2.64E-02	1.07E-01	1.07E-01
+	LU-176	88.34		13.30	4.76E-01	7.18E-02	5.17E-01
		201.83		86.00	9.07E-03		7.96E-02
		306.78		94.00	2.25E-02		7.18E-02
+	TA-182	67.75		41.20	-2.28E-02	1.92E-01	1.92E-01
		1121.30		34.90	5.92E-01		5.32E-01
		1189.05		16.23	-2.14E-01		7.99E-01
		1221.41		26.98	-4.26E-02		5.80E-01
		1231.02		11.44	4.30E-01		1.45E+00
+	IR-192	308.46		29.68	1.26E-01	2.04E-01	3.04E-01
		468.07		48.10	-5.26E-02		2.04E-01
+	HG-203	279.19		77.30	1.65E-02	1.41E-01	1.41E-01
+	BI-207	569.67		97.72	-3.81E-03	8.19E-02	8.19E-02
		1063.62		74.90	2.33E-02		1.23E-01
+	TL-208	583.14	*	30.22	1.10E+00	4.56E-02	4.18E-01
		860.37		4.48	1.30E+00		2.47E+00
		2614.66	*	35.85	1.05E+00		4.56E-02
+	BI-210M	262.00		45.00	1.32E-02	1.45E-01	1.45E-01
		300.00		23.00	-1.74E-02		3.05E-01
+	PB-210	46.50		4.25	2.77E+00	2.26E+00	2.26E+00
+	PB-211	404.84		2.90	-1.28E-01	2.52E+00	2.52E+00
		831.96		2.90	-1.05E+00		3.28E+00
+	BI-212	727.17	*	11.80	1.07E+00	1.11E+00	1.11E+00
		1620.62		2.75	1.13E+00		2.93E+00
+	PB-212	238.63	*	44.60	1.26E+00	2.94E-01	2.94E-01
		300.09		3.41	-1.17E-01		2.06E+00
+	BI-214	609.31	*	46.30	1.27E+00	2.99E-01	3.69E-01
		1120.29	*	15.10	1.35E+00		6.92E-01
		1764.49	*	15.80	1.04E+00		3.50E-01
		2204.22	*	4.98	2.10E+00		2.99E-01
+	PB-214	295.21	*	19.19	1.22E+00	2.77E-01	5.28E-01
		351.92	*	37.19	1.19E+00		2.77E-01
+	RN-219	401.80		6.50	1.17E-01	1.11E+00	1.11E+00
+	RA-223	323.87		3.88	-1.65E+00	1.77E+00	1.77E+00
+	RA-224	240.98		3.95	1.67E+01	3.35E+00	3.35E+00
+	RA-225	40.00		31.00	-3.36E-01	1.48E+00	1.48E+00
+	RA-226	186.21	*	3.28	2.96E+00	2.54E+00	2.54E+00
+	TH-227	50.10		8.40	-1.52E+00	9.14E-01	9.14E-01
		236.00		11.50	2.90E+00		1.02E+00
		256.20		6.30	5.97E-01		1.09E+00
+	AC-228	338.32	*	11.40	1.46E+00	5.40E-01	1.03E+00
		911.07	*	27.70	1.23E+00		5.40E-01
		969.11	*	16.60	5.65E-01		9.76E-01

Analysis Report for 1506114-09

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TH-230	48.44		16.90	2.66E-01	5.22E-01	5.22E-01
		62.85		4.60	1.58E+00		1.62E+00
		67.67		0.37	-2.12E+00		1.78E+01
+	PA-231	283.67		1.60	-1.17E+00	3.03E+00	3.98E+00
		302.67		2.30	-1.86E+00		3.03E+00
+	TH-231	25.64		14.70	1.46E+00	9.63E-01	3.45E+00
		84.21		6.40	-1.16E+00		9.63E-01
+	PA-233	311.98		38.60	-2.63E-01	3.57E-01	3.57E-01
+	PA-234	131.20	*	20.40	2.44E-01	3.75E-01	3.75E-01
		733.99		8.80	-1.08E-01		1.00E+00
		946.00		12.00	2.22E-01		8.05E-01
+	PA-234M	1001.03		0.92	-4.54E-01	1.03E+01	1.03E+01
+	TH-234	63.29		3.80	3.03E-01	1.94E+00	1.94E+00
+	U-235	143.76		10.50	-1.87E-02	5.09E-01	5.09E-01
		163.35		4.70	-7.00E-02		1.09E+00
		205.31		4.70	-1.25E+00		1.42E+00
+	NP-237	86.50		12.60	3.33E-01	5.35E-01	5.35E-01
+	NP-239	106.10		22.70	3.21E+02	1.60E+03	1.60E+03
		228.18		10.70	-1.16E+03		4.27E+03
		277.60		14.10	5.95E+02		3.52E+03
+	AM-241	59.54		35.90	-7.29E-02	1.94E-01	1.94E-01
+	AM-243	74.67		66.00	2.97E-01	1.42E-01	1.42E-01
+	CM-243	209.75		3.29	7.59E-01	5.05E-01	2.11E+00
		228.14		10.60	-1.67E-01		6.14E-01
		277.60		14.00	8.54E-02		5.05E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506114-09

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.01E+00	1.01E+00	1.60E-01	4.76E-01
	NA-22	1274.54		99.94	1.18E-01	1.18E-01	3.47E-02	5.41E-02
	NA-24	1368.53		99.99	2.75E+13	1.81E+13	5.44E+12	1.21E+13
		2754.09		99.86	1.81E+13		3.89E+12	6.40E+12
	AL-26	1808.65		99.76	1.00E-01	1.00E-01	1.13E-02	4.35E-02
+	K-40	1460.81	*	10.67	1.39E+00	1.39E+00	1.60E+01	6.45E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.97E-02	6.97E-02	-8.29E-03	3.40E-02
		78.34		96.00	9.14E-02		2.25E-01	4.49E-02
	SC-46	889.25		99.98	1.15E-01	1.15E-01	1.23E-02	5.28E-02
		1120.51		99.99	1.98E-01		1.95E-01	9.34E-02
	V-48	983.52		99.98	3.19E-01	3.19E-01	-9.29E-02	1.45E-01
		1312.10		97.50	4.09E-01		-1.93E-01	1.85E-01
	CR-51	320.08		9.83	1.53E+00	1.53E+00	1.72E-01	7.31E-01
	MN-54	834.83		99.97	1.02E-01	1.02E-01	1.64E-03	4.73E-02
	CO-56	846.75		99.96	1.18E-01	1.18E-01	3.87E-02	5.45E-02
		1037.75		14.03	8.15E-01		4.92E-02	3.69E-01
		1238.25		67.00	3.12E-01		3.17E-01	1.47E-01
		1771.40		15.51	6.33E-01		-3.17E-01	2.63E-01
		2598.48		16.90	3.42E-01		-1.55E-02	1.08E-01
	CO-57	122.06		85.51	6.32E-02	6.32E-02	-2.18E-02	3.06E-02
		136.48		10.60	5.02E-01		-1.44E-01	2.43E-01
	CO-58	810.76		99.40	1.10E-01	1.10E-01	-1.51E-02	5.01E-02
	FE-59	1099.22		56.50	2.93E-01	2.93E-01	1.17E-01	1.34E-01
		1291.56		43.20	4.00E-01		-7.17E-02	1.81E-01
	CO-60	1173.22		100.00	1.21E-01	1.21E-01	5.40E-02	5.56E-02
		1332.49		100.00	1.21E-01		6.78E-02	5.54E-02
	ZN-65	1115.52		50.75	2.28E-01	2.28E-01	9.04E-03	1.04E-01
+	GA-67	93.31	*	35.70	1.35E+02	1.35E+02	1.85E+02	6.61E+01
		208.95		2.24	1.87E+03		3.61E+02	9.06E+02
		300.22		16.00	2.64E+02		-1.50E+01	1.26E+02
	SE-75	121.11		16.70	3.41E-01	9.98E-02	-3.01E-01	1.65E-01
		136.00		59.20	9.98E-02		-2.96E-02	4.82E-02
		264.65		59.80	1.30E-01		9.60E-03	6.22E-02
		279.53		25.20	3.14E-01		-2.22E-02	1.50E-01
		400.65		11.40	7.35E-01		-6.55E-02	3.48E-01
	RB-82	776.52		13.00	1.55E+00	1.55E+00	-2.11E-01	7.17E-01
	RB-83	520.41		46.00	2.14E-01	2.14E-01	1.63E-02	1.01E-01
		529.64		30.30	3.45E-01		-9.18E-03	1.63E-01
		552.65		16.40	5.65E-01		-6.66E-02	2.63E-01
	KR-85	513.99		0.43	2.41E+01	2.41E+01	-3.10E-01	1.15E+01
	SR-85	513.99		99.27	1.44E-01	1.44E-01	-1.86E-03	6.90E-02
	Y-88	898.02		93.40	1.23E-01	7.16E-02	1.96E-02	5.66E-02
		1836.01		99.38	7.16E-02		-6.46E-03	2.77E-02
	NB-93M	16.57		9.43	8.04E+01	8.04E+01	1.66E+01	3.90E+01
	NB-94	702.63		100.00	9.22E-02	9.22E-02	1.22E-02	4.31E-02
		871.10		100.00	9.99E-02		4.56E-02	4.63E-02
	NB-95	765.79		99.81	1.84E-01	1.84E-01	-9.45E-03	8.61E-02
	NB-95M	235.69		25.00	1.51E+02	1.51E+02	4.31E+02	7.39E+01
	ZR-95	724.18		43.70	3.34E-01	2.31E-01	2.32E-02	1.57E-01
		756.72		55.30	2.31E-01		-9.13E-03	1.07E-01
	MO-99	181.06		6.20	1.71E+03	1.30E+03	-3.87E+02	8.23E+02
		739.58		12.80	1.30E+03		5.45E+01	6.01E+02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	778.00		4.50	3.99E+03	1.30E+03	1.17E+03	1.85E+03
	RU-103	497.08		89.00	1.37E-01	1.37E-01	-2.07E-02	6.43E-02
	RU-106	621.84		9.80	8.83E-01	8.83E-01	5.00E-01	4.12E-01
	AG-108M	433.93		89.90	7.91E-02	7.91E-02	-1.15E-03	3.74E-02
		614.37		90.40	1.03E-01		-4.31E-01	4.87E-02
		722.95		90.50	9.71E-02		-7.58E-03	4.51E-02
	CD-109	88.03		3.72	1.92E+00	1.92E+00	9.61E-01	9.36E-01
	AG-110M	657.75		93.14	1.01E-01	1.01E-01	6.27E-03	4.71E-02
		677.61		10.53	8.16E-01		8.77E-02	3.78E-01
		706.67		16.46	5.78E-01		4.05E-02	2.69E-01
		763.93		21.98	4.56E-01		-3.66E-02	2.12E-01
		884.67		71.63	1.26E-01		-4.18E-02	5.76E-02
		1384.27		23.94	4.89E-01		-1.66E-01	2.20E-01
	CD-113M	263.70		0.02	2.81E+02	2.81E+02	-1.25E+01	1.35E+02
	SN-113	255.12		1.93	4.26E+00	1.27E-01	9.80E-01	2.05E+00
		391.69		64.90	1.27E-01		-4.10E-02	6.02E-02
	TE123M	159.00		84.10	7.58E-02	7.58E-02	-6.73E-03	3.66E-02
+	SB-124	602.71	*	97.87	2.48E-01	2.48E-01	7.28E-02	1.20E-01
		645.85		7.26	1.55E+00		-3.92E-01	7.21E-01
		722.78		11.10	1.12E+00		-8.73E-02	5.20E-01
		1691.02		49.00	2.58E-01		1.36E-01	1.11E-01
	I-125	35.49		6.49	3.27E+00	3.27E+00	-3.93E-01	1.59E+00
	SB-125	176.33		6.89	7.97E-01	2.50E-01	-1.46E-01	3.84E-01
		427.89		29.33	2.50E-01		1.21E-01	1.18E-01
		463.38		10.35	8.53E-01		6.97E-01	4.06E-01
		600.56		17.80	4.85E-01		1.67E-01	2.28E-01
		635.90		11.32	7.20E-01		-2.59E-01	3.35E-01
	SB-126	414.70		83.30	4.74E-01	4.59E-01	-4.08E-02	2.25E-01
		666.33		99.60	4.59E-01		-3.05E-03	2.14E-01
		695.00		99.60	4.80E-01		6.33E-02	2.24E-01
		720.50		53.80	8.18E-01		-4.27E-02	3.78E-01
	SN-126	87.57		37.00	1.84E-01	1.84E-01	9.24E-02	9.00E-02
	SB-127	473.00		25.00	6.91E+01	4.91E+01	2.21E+01	3.26E+01
		685.20		35.70	4.91E+01		-6.82E+00	2.27E+01
		783.80		14.70	1.36E+02		-4.78E+01	6.31E+01
	I-129	29.78		57.00	4.61E-01	4.61E-01	-2.45E-01	2.24E-01
		33.60		13.20	1.35E+00		2.89E-02	6.54E-01
		39.58		7.52	1.53E+00		-3.47E-01	7.42E-01
	I-131	284.30		6.05	1.41E+01	1.20E+00	-4.15E+00	6.75E+00
		364.48		81.20	1.20E+00		1.03E-01	5.70E-01
		636.97		7.26	1.53E+01		4.09E-01	7.14E+00
		722.89		1.80	6.54E+01		-5.10E+00	3.04E+01
	TE-132	49.72		13.10	3.57E+02	4.46E+01	-5.95E+02	1.74E+02
		228.16		88.00	4.46E+01		-1.21E+01	2.15E+01
	BA-133	81.00		33.00	1.85E-01	1.62E-01	-1.03E+00	9.02E-02
		302.84		17.80	3.93E-01		-2.42E-01	1.88E-01
		356.01		60.00	1.62E-01		4.45E-02	7.84E-02
	I-133	529.87		86.30	2.71E+09	2.71E+09	-7.20E+07	1.28E+09
	CS-134	563.23		8.38	1.02E+00	1.01E-01	2.36E-01	4.81E-01
		569.32		15.43	5.15E-01		-1.90E-01	2.41E-01
		604.70		97.60	1.01E-01		-7.75E-01	4.79E-02
		795.84		85.40	1.22E-01		8.54E-02	5.69E-02
		801.93		8.73	8.17E-01		-3.23E-01	3.69E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-135	268.24	16.00	4.55E-01	4.55E-01	3.55E-03	2.19E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	3.28E+00	4.31E-01	-1.60E+00	1.58E+00
	163.89	4.61	5.42E+00		-3.49E-01	2.61E+00
	176.55	13.56	1.96E+00		4.76E-01	9.46E-01
	273.65	12.66	2.80E+00		-4.42E-01	1.35E+00
	340.57	48.50	8.99E-01		1.65E+00	4.33E-01
	818.50	99.70	4.31E-01		2.86E-01	1.99E-01
	1048.07	79.60	5.59E-01		-2.62E-02	2.53E-01
	1235.34	19.70	3.71E+00		-3.29E-01	1.73E+00
CS-137	661.65	85.12	1.08E-01	1.08E-01	5.11E-02	5.05E-02
LA-138	788.74	34.00	2.83E-01	1.44E-01	1.19E-01	1.32E-01
	1435.80	66.00	1.44E-01		3.99E-02	6.39E-02
CE-139	165.85	80.35	7.18E-02	7.18E-02	-3.44E-02	3.45E-02
BA-140	162.64	6.70	3.92E+00	1.61E+00	-9.83E-01	1.89E+00
	304.84	4.50	7.62E+00		-3.55E+00	3.64E+00
	423.70	3.20	1.08E+01		-6.26E+00	5.09E+00
	437.55	2.00	1.88E+01		9.45E+00	8.90E+00
	537.32	25.00	1.61E+00		8.55E-02	7.55E-01
LA-140	328.77	20.50	1.82E+00	5.02E-01	2.74E-01	8.70E-01
	487.03	45.50	8.11E-01		1.61E-01	3.81E-01
	815.85	23.50	1.81E+00		-9.91E-02	8.32E-01
	1596.49	95.49	5.02E-01		-1.04E-01	2.19E-01
CE-141	145.44	48.40	2.14E-01	2.14E-01	6.54E-02	1.03E-01
CE-143	57.36	11.80	2.27E+06	8.85E+05	-2.77E+05	1.11E+06
	293.26	42.00	8.85E+05		4.66E+03	4.29E+05
	664.55	5.20	6.78E+06		1.65E+06	3.17E+06
CE-144	133.54	10.80	5.02E-01	5.02E-01	-7.85E-02	2.43E-01
PM-144	476.78	42.00	1.84E-01	7.97E-02	7.74E-03	8.65E-02
	618.01	98.60	7.97E-02		-1.96E-02	3.69E-02
	696.49	99.49	9.20E-02		-2.37E-02	4.28E-02
PM-145	36.85	21.70	6.25E-01	3.38E-01	-1.71E-01	3.03E-01
	37.36	39.70	3.38E-01		3.95E-02	1.64E-01
	42.30	15.10	6.56E-01		-7.85E-01	3.18E-01
	72.40	2.31	3.36E+00		-5.67E+00	1.64E+00
PM-146	453.90	39.94	1.87E-01	1.87E-01	7.40E-02	8.83E-02
	735.90	14.01	5.96E-01		-1.51E-01	2.75E-01
	747.13	13.10	6.52E-01		2.10E-02	3.01E-01
ND-147	91.11	28.90	1.55E+00	1.55E+00	-1.06E+00	7.58E-01
	531.02	13.10	4.22E+00		1.04E+00	1.99E+00
PM-149	285.90	3.10	2.62E+04	2.62E+04	-4.16E+03	1.26E+04
EU-152	121.78	20.50	2.45E-01	2.45E-01	-8.43E-02	1.18E-01
	244.69	5.40	1.42E+00		-1.13E+00	6.86E-01
	344.27	19.13	3.42E-01		-2.88E-02	1.63E-01
	778.89	9.20	9.47E-01		7.29E-02	4.38E-01
	964.01	10.40	1.12E+00		-1.16E-01	5.22E-01
	1085.78	7.22	1.13E+00		-1.10E+00	5.02E-01
	1112.02	9.60	1.19E+00		3.60E-01	5.50E-01
	1407.95	14.94	6.58E-01		1.15E-01	2.93E-01
GD-153	97.43	31.30	1.84E-01	1.84E-01	5.56E-02	8.93E-02
	103.18	22.20	2.47E-01		-9.41E-02	1.20E-01

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	123.07		40.50	1.27E-01	1.27E-01	-5.82E-03	6.13E-02
		723.30		19.70	4.49E-01		-3.50E-02	2.09E-01
		873.19		11.50	8.38E-01		-1.00E-01	3.87E-01
		996.32		10.30	8.89E-01		-2.69E-01	4.05E-01
		1004.76		17.90	5.22E-01		-7.00E-02	2.38E-01
		1274.45		35.50	3.28E-01		9.62E-02	1.50E-01
	EU-155	86.50		30.90	2.21E-01	2.21E-01	1.37E-01	1.08E-01
		105.30		20.70	2.51E-01		3.07E-02	1.22E-01
	EU-156	811.77		10.40	2.94E+00	2.94E+00	-8.15E-01	1.34E+00
		1153.47		7.20	6.19E+00		7.18E-01	2.84E+00
		1230.71		8.90	6.35E+00		2.49E+00	2.96E+00
	HO-166M	184.41		72.60	9.57E-02	9.57E-02	1.68E-01	4.65E-02
		280.45		29.60	2.20E-01		1.55E-02	1.05E-01
		410.94		11.10	6.40E-01		-9.19E-02	3.03E-01
		711.69		54.10	1.47E-01		-4.89E-03	6.79E-02
	TM-171	66.72		0.14	4.93E+01	4.93E+01	-5.33E+01	2.40E+01
	HF-172	81.75		4.52	1.41E+00	4.92E-01	-3.17E+00	6.89E-01
		125.81		11.30	4.92E-01		2.12E-01	2.39E-01
	LU-172	181.53		20.60	5.87E+00	3.85E+00	-1.74E+00	2.83E+00
		810.06		16.63	1.12E+01		-1.93E+00	5.14E+00
		912.12		15.25	2.43E+01		4.28E+01	1.16E+01
		1093.66		62.50	3.85E+00		1.99E+00	1.77E+00
	LU-173	100.72		5.24	1.02E+00	3.67E-01	-9.03E-02	4.95E-01
		272.11		21.20	3.67E-01		9.75E-02	1.77E-01
	HF-175	343.40		84.00	1.07E-01	1.07E-01	-2.64E-02	5.10E-02
	LU-176	88.34		13.30	5.17E-01	7.18E-02	4.76E-01	2.53E-01
		201.83		86.00	7.96E-02		9.07E-03	3.86E-02
		306.78		94.00	7.18E-02		2.25E-02	3.43E-02
	TA-182	67.75		41.20	1.92E-01	1.92E-01	-2.28E-02	9.35E-02
		1121.30		34.90	5.32E-01		5.92E-01	2.51E-01
		1189.05		16.23	7.99E-01		-2.14E-01	3.65E-01
		1221.41		26.98	5.80E-01		-4.26E-02	2.68E-01
		1231.02		11.44	1.45E+00		4.30E-01	6.72E-01
	IR-192	308.46		29.68	3.04E-01	2.04E-01	1.26E-01	1.46E-01
		468.07		48.10	2.04E-01		-5.26E-02	9.62E-02
	HG-203	279.19		77.30	1.41E-01	1.41E-01	1.65E-02	6.80E-02
	BI-207	569.67		97.72	8.19E-02	8.19E-02	-3.81E-03	3.84E-02
		1063.62		74.90	1.23E-01		2.33E-02	5.59E-02
+	TL-208	583.14	*	30.22	4.18E-01	4.56E-02	1.10E+00	2.01E-01
		860.37		4.48	2.47E+00		1.30E+00	1.15E+00
		2614.66	*	35.85	4.56E-02		1.05E+00	0.00E+00
	BI-210M	262.00		45.00	1.45E-01	1.45E-01	1.32E-02	6.98E-02
		300.00		23.00	3.05E-01		-1.74E-02	1.46E-01
	PB-210	46.50		4.25	2.26E+00	2.26E+00	2.77E+00	1.10E+00
	PB-211	404.84		2.90	2.52E+00	2.52E+00	-1.28E-01	1.20E+00
		831.96		2.90	3.28E+00		-1.05E+00	1.52E+00
+	BI-212	727.17	*	11.80	1.11E+00	1.11E+00	1.07E+00	5.28E-01
		1620.62		2.75	2.93E+00		1.13E+00	1.25E+00
+	PB-212	238.63	*	44.60	2.94E-01	2.94E-01	1.26E+00	1.44E-01
		300.09		3.41	2.06E+00		-1.17E-01	9.87E-01
+	BI-214	609.31	*	46.30	3.69E-01	2.99E-01	1.27E+00	1.79E-01
		1120.29	*	15.10	6.92E-01		1.35E+00	3.16E-01
		1764.49	*	15.80	3.50E-01		1.04E+00	1.34E-01

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-214	2204.22	*	4.98	2.99E-01	2.99E-01	2.10E+00	0.00E+00
+	PB-214	295.21	*	19.19	5.28E-01	2.77E-01	1.22E+00	2.57E-01
		351.92	*	37.19	2.77E-01		1.19E+00	1.34E-01
	RN-219	401.80		6.50	1.11E+00	1.11E+00	1.17E-01	5.26E-01
	RA-223	323.87		3.88	1.77E+00	1.77E+00	-1.65E+00	8.46E-01
	RA-224	240.98		3.95	3.35E+00	3.35E+00	1.67E+01	1.64E+00
	RA-225	40.00		31.00	1.48E+00	1.48E+00	-3.36E-01	7.20E-01
+	RA-226	186.21	*	3.28	2.54E+00	2.54E+00	2.96E+00	1.24E+00
	TH-227	50.10		8.40	9.14E-01	9.14E-01	-1.52E+00	4.44E-01
		236.00		11.50	1.02E+00		2.90E+00	4.98E-01
		256.20		6.30	1.09E+00		5.97E-01	5.25E-01
+	AC-228	338.32	*	11.40	1.03E+00	5.40E-01	1.46E+00	5.01E-01
		911.07	*	27.70	5.40E-01		1.23E+00	2.56E-01
		969.11	*	16.60	9.76E-01		5.65E-01	4.64E-01
	TH-230	48.44		16.90	5.22E-01	5.22E-01	2.66E-01	2.54E-01
		62.85		4.60	1.62E+00		1.58E+00	7.90E-01
		67.67		0.37	1.78E+01		-2.12E+00	8.69E+00
	PA-231	283.67		1.60	3.98E+00	3.03E+00	-1.17E+00	1.90E+00
		302.67		2.30	3.03E+00		-1.86E+00	1.45E+00
	TH-231	25.64		14.70	3.45E+00	9.63E-01	1.46E+00	1.68E+00
		84.21		6.40	9.63E-01		-1.16E+00	4.70E-01
	PA-233	311.98		38.60	3.57E-01	3.57E-01	-2.63E-01	1.70E-01
+	PA-234	131.20	*	20.40	3.75E-01	3.75E-01	2.44E-01	1.83E-01
		733.99		8.80	1.00E+00		-1.08E-01	4.66E-01
		946.00		12.00	8.05E-01		2.22E-01	3.70E-01
	PA-234M	1001.03		0.92	1.03E+01	1.03E+01	-4.54E-01	4.71E+00
	TH-234	63.29		3.80	1.94E+00	1.94E+00	3.03E-01	9.48E-01
	U-235	143.76		10.50	5.09E-01	5.09E-01	-1.87E-02	2.46E-01
		163.35		4.70	1.09E+00		-7.00E-02	5.24E-01
		205.31		4.70	1.42E+00		-1.25E+00	6.85E-01
	NP-237	86.50		12.60	5.35E-01	5.35E-01	3.33E-01	2.61E-01
	NP-239	106.10		22.70	1.60E+03	1.60E+03	3.21E+02	7.75E+02
		228.18		10.70	4.27E+03		-1.16E+03	2.06E+03
		277.60		14.10	3.52E+03		5.95E+02	1.69E+03
	AM-241	59.54		35.90	1.94E-01	1.94E-01	-7.29E-02	9.44E-02
	AM-243	74.67		66.00	1.42E-01	1.42E-01	2.97E-01	6.98E-02
	CM-243	209.75		3.29	2.11E+00	5.05E-01	7.59E-01	1.02E+00
		228.14		10.60	6.14E-01		-1.67E-01	2.96E-01
		277.60		14.00	5.05E-01		8.54E-02	2.43E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506114-09

FEEBRIS1D-02.020-023

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-02.020-023

Elapsed Live time: 3600
Elapsed Real Time: 3615

Channel								
1:	0	0	0	0	0	0	0	0
9:	15	176	137	108	105	88	81	87
17:	95	63	68	67	56	71	89	73
25:	87	68	76	90	58	67	74	73
33:	86	69	66	81	75	75	68	84
41:	80	68	82	69	69	103	156	83
49:	85	76	78	76	83	85	78	80
57:	77	105	83	102	102	97	125	182
65:	108	98	129	109	95	99	109	108
73:	117	148	305	219	405	355	114	101
81:	101	108	92	137	113	89	174	187
89:	88	129	102	130	198	137	94	77
97:	60	85	86	85	68	57	71	63
105:	90	70	70	71	81	64	84	51
113:	67	62	60	74	52	70	64	60
121:	44	65	56	89	70	70	67	62
129:	75	84	69	72	58	61	40	64
137:	54	62	56	68	52	60	60	70
145:	66	53	70	58	64	50	54	35
153:	52	56	55	63	54	56	55	51
161:	60	61	49	33	43	56	50	41
169:	51	47	42	61	59	48	48	42
177:	46	60	54	37	45	46	54	52
185:	50	142	91	49	39	49	55	52
193:	52	46	39	51	59	45	59	45
201:	45	43	38	59	42	40	43	39
209:	55	66	51	33	33	46	37	38
217:	47	46	34	41	38	44	38	37
225:	35	37	45	37	23	39	30	41
233:	36	42	47	40	44	191	379	124
241:	79	108	63	28	29	32	21	25
249:	32	38	26	28	31	34	40	33
257:	29	34	28	30	24	29	32	24
265:	32	23	26	28	35	52	43	33
273:	28	25	30	34	37	38	18	25
281:	29	24	13	29	15	25	29	31
289:	28	29	21	20	27	26	115	124
297:	29	22	21	35	33	16	27	17
305:	20	29	32	21	24	19	18	21
313:	22	19	16	23	28	20	22	27
321:	24	26	19	24	26	13	21	33
329:	34	21	27	20	21	21	29	22
337:	18	63	75	28	19	22	19	16
345:	15	11	21	20	14	15	78	235
353:	126	35	17	16	25	24	22	17
361:	16	15	17	17	17	29	24	20

369:	21	22	14	11	20	18	21	21

Sample Title: FEEBRIS1D-02.020-023

Channel								
377:	25	14	16	15	14	24	11	22
385:	13	14	14	19	16	16	11	23
393:	14	12	17	16	22	13	8	20
401:	13	19	20	17	18	10	18	15
409:	18	17	15	11	14	17	10	26
417:	14	21	19	16	17	12	13	12
425:	12	15	10	20	13	12	20	15
433:	5	12	19	10	16	17	13	14
441:	14	14	12	10	14	14	14	10
449:	12	9	13	16	19	18	11	11
457:	9	11	12	11	18	19	33	19
465:	16	14	15	10	11	14	12	19
473:	11	14	11	16	10	15	11	9
481:	10	10	9	7	11	12	14	12
489:	12	13	10	12	13	9	14	6
497:	10	17	12	9	9	14	10	9
505:	11	5	10	13	19	40	57	34
513:	20	13	8	17	9	18	10	10
521:	10	12	14	10	11	11	16	9
529:	12	11	9	16	18	17	13	6
537:	6	11	15	13	4	10	15	10
545:	13	8	10	6	12	14	10	10
553:	8	14	1	8	9	12	15	13
561:	11	17	10	11	15	7	8	9
569:	14	10	12	10	12	11	11	8
577:	7	10	11	20	9	17	85	64
585:	18	14	12	9	7	8	10	10
593:	14	14	10	7	9	11	8	11
601:	10	20	13	4	12	7	15	29
609:	117	124	28	11	17	10	11	10
617:	4	2	11	9	8	15	9	6
625:	9	7	10	13	11	12	11	11
633:	7	11	7	8	8	10	10	12
641:	9	10	12	12	8	5	6	10
649:	6	11	9	6	8	8	9	12
657:	9	4	7	13	14	13	8	10
665:	11	10	8	6	11	6	6	5
673:	11	8	10	9	6	9	7	8
681:	4	6	5	6	7	10	9	7
689:	9	10	12	10	4	10	12	11
697:	7	11	6	7	12	13	9	8
705:	11	9	9	10	7	7	7	6
713:	11	6	5	8	3	8	9	4
721:	13	5	9	6	11	11	32	26
729:	9	7	12	9	10	6	4	9
737:	8	4	9	5	7	10	13	10
745:	13	6	3	4	6	9	5	9
753:	8	13	5	9	10	3	9	11
761:	7	11	10	5	7	10	9	17
769:	14	10	3	13	7	7	10	7
777:	7	5	10	10	7	4	8	3
785:	9	10	11	6	11	8	10	5
793:	9	13	17	14	7	4	3	4

801:	5	3	2	4	8	10	7	10

Sample Title: FEEBRIS1D-02.020-023

Channel								
809:	2	8	6	6	3	5	6	2
817:	13	10	3	7	6	2	4	6
825:	5	3	10	5	3	12	9	2
833:	11	9	8	14	8	2	5	6
841:	8	4	5	5	9	8	7	8
849:	5	5	7	4	7	2	9	8
857:	6	7	6	21	14	9	7	7
865:	4	9	7	5	6	9	6	12
873:	5	12	4	2	10	8	11	5
881:	4	5	5	9	2	6	5	9
889:	2	10	7	3	7	4	5	12
897:	8	2	5	4	10	6	6	8
905:	2	9	6	4	6	31	52	41
913:	6	7	3	9	4	3	5	7
921:	7	5	3	5	5	5	3	6
929:	2	7	4	5	7	18	6	4
937:	5	3	6	3	8	4	6	2
945:	5	8	10	6	7	6	2	2
953:	2	4	1	5	3	5	7	7
961:	4	11	8	10	13	9	8	20
969:	26	14	3	7	7	5	6	4
977:	6	5	6	5	3	5	5	4
985:	5	5	4	8	6	3	6	5
993:	7	2	4	5	3	8	6	4
1001:	10	5	1	4	8	5	7	6
1009:	2	7	5	6	3	3	4	3
1017:	8	4	3	5	6	5	2	5
1025:	5	2	4	6	6	3	4	5
1033:	3	7	5	6	4	5	5	3
1041:	2	3	4	5	3	5	4	3
1049:	6	7	4	4	6	9	2	4
1057:	8	4	3	5	4	4	5	5
1065:	6	3	5	3	5	7	3	8
1073:	5	5	6	6	2	1	8	6
1081:	6	7	1	6	3	3	4	2
1089:	4	3	11	6	4	5	6	7
1097:	2	6	6	9	7	2	4	1
1105:	9	5	4	7	5	7	9	6
1113:	5	6	9	5	5	4	13	27
1121:	27	12	1	5	6	5	6	4
1129:	6	5	4	5	5	3	7	8
1137:	7	10	5	3	6	5	5	4
1145:	4	5	8	7	6	10	6	4
1153:	5	3	12	3	7	3	8	4
1161:	3	4	5	6	3	6	9	7
1169:	2	6	10	6	7	7	4	7
1177:	6	3	7	5	9	6	8	8
1185:	7	7	2	5	3	5	5	10
1193:	6	5	3	5	7	7	7	6
1201:	5	7	4	4	8	5	6	8
1209:	7	6	5	7	8	6	9	11
1217:	6	5	5	12	9	4	11	7
1225:	7	8	9	13	4	13	12	5

1233:	8	4	9	13	10	21	13	7

Sample Title: FEEBRIS1D-02.020-023

Channel								
1241:	8	4	5	5	3	4	9	8
1249:	9	8	2	10	6	3	3	5
1257:	1	4	8	5	5	1	2	9
1265:	5	4	1	5	2	5	8	2
1273:	3	5	4	5	2	4	4	2
1281:	9	8	4	6	4	5	5	6
1289:	3	1	4	3	2	1	7	4
1297:	6	7	8	8	1	0	3	5
1305:	2	5	1	7	3	3	6	4
1313:	2	0	3	3	8	4	1	5
1321:	5	4	4	2	0	1	2	6
1329:	2	5	2	4	3	3	5	8
1337:	3	3	3	8	2	2	4	2
1345:	0	2	0	3	3	3	3	3
1353:	4	4	0	1	4	2	4	4
1361:	2	2	0	2	1	1	3	3
1369:	0	2	4	2	2	2	4	3
1377:	12	12	2	4	2	3	2	4
1385:	5	5	1	2	2	2	0	1
1393:	2	0	0	0	1	2	1	2
1401:	1	0	5	1	0	1	4	8
1409:	5	1	0	2	3	0	3	3
1417:	2	2	3	2	2	2	0	3
1425:	0	3	6	3	1	2	4	1
1433:	1	2	3	1	2	2	4	2
1441:	1	2	0	4	3	2	1	2
1449:	2	7	0	1	2	2	0	4
1457:	4	4	38	124	156	75	12	10
1465:	1	6	2	3	2	2	0	3
1473:	2	0	1	3	1	0	3	2
1481:	3	2	0	0	2	2	0	2
1489:	3	2	1	3	3	2	1	2
1497:	2	2	2	1	3	2	1	0
1505:	1	3	2	2	2	2	2	3
1513:	0	1	3	3	0	1	0	2
1521:	1	1	2	3	0	1	3	0
1529:	3	0	2	1	3	1	2	5
1537:	1	4	0	2	0	0	4	1
1545:	2	1	1	1	5	1	0	3
1553:	2	1	2	1	1	2	2	0
1561:	1	1	2	0	2	0	1	1
1569:	2	3	1	0	2	0	2	0
1577:	3	0	3	3	0	5	2	3
1585:	0	1	4	4	5	0	2	7
1593:	2	1	0	2	0	1	3	0
1601:	3	3	2	1	0	2	1	0
1609:	0	1	2	1	0	1	0	0
1617:	3	0	0	2	4	1	1	0
1625:	1	4	3	3	2	2	4	1
1633:	0	0	3	0	1	2	1	0
1641:	0	1	0	0	3	3	2	1
1649:	0	0	4	0	0	1	0	0
1657:	1	1	0	1	2	1	0	1

1665:	2	1	1	1	1	4	0	3

Sample Title: FEEBRIS1D-02.020-023

Channel								
1673:	2	1	1	2	4	2	2	3
1681:	0	1	1	2	0	0	1	1
1689:	0	4	2	0	2	3	0	0
1697:	0	0	2	0	3	1	2	0
1705:	0	2	0	1	0	0	0	0
1713:	0	2	0	0	0	2	1	2
1721:	1	1	2	1	2	0	2	3
1729:	1	2	2	1	2	0	0	2
1737:	0	0	0	2	0	1	0	0
1745:	1	2	2	1	1	1	2	0
1753:	0	1	0	3	1	2	0	0
1761:	0	2	10	10	7	7	1	0
1769:	1	1	0	2	0	2	1	0
1777:	3	2	1	0	1	0	0	1
1785:	0	0	1	1	0	0	1	2
1793:	2	1	1	1	0	1	1	0
1801:	1	0	1	2	1	0	4	1
1809:	3	1	2	1	3	1	2	0
1817:	1	1	0	2	1	0	0	1
1825:	5	2	2	0	0	2	0	0
1833:	0	0	1	0	1	1	1	0
1841:	1	0	0	2	0	0	1	4
1849:	1	0	1	0	1	2	0	1
1857:	2	0	1	2	0	3	0	1
1865:	0	0	2	1	0	0	2	3
1873:	0	1	2	0	0	1	0	1
1881:	2	0	1	2	1	0	2	1
1889:	2	1	4	2	1	0	4	1
1897:	0	0	2	1	0	1	1	0
1905:	2	0	0	0	0	1	1	1
1913:	0	2	1	1	1	1	2	1
1921:	2	3	2	0	1	2	1	3
1929:	1	1	0	0	2	0	0	0
1937:	1	0	1	1	2	3	0	1
1945:	0	2	0	0	2	0	0	0
1953:	1	0	0	3	1	0	5	0
1961:	0	1	0	1	0	0	1	1
1969:	0	1	3	0	2	1	1	0
1977:	1	0	0	0	0	1	0	0
1985:	1	1	0	0	0	1	1	0
1993:	1	2	0	2	1	1	1	0
2001:	1	2	0	1	1	0	2	1
2009:	2	0	1	2	1	0	0	0
2017:	0	0	0	1	1	0	1	0
2025:	1	0	0	0	1	0	0	1
2033:	2	0	0	1	0	0	0	1
2041:	0	0	0	0	1	1	0	0
2049:	1	0	1	1	1	2	1	0
2057:	2	2	0	0	0	1	1	1
2065:	0	1	0	0	0	2	2	0
2073:	3	2	2	1	1	1	1	1
2081:	1	1	1	1	0	1	0	0
2089:	1	0	2	0	2	2	0	0

2097:	0	1	1	2	0	7	3	5

Sample Title: FEEBRIS1D-02.020-023

Channel								
2105:	3	1	2	0	0	1	0	1
2113:	0	1	0	2	1	3	2	0
2121:	0	1	1	0	1	0	5	1
2129:	1	3	0	0	0	1	1	1
2137:	1	0	0	1	0	1	0	2
2145:	0	2	2	1	0	0	1	0
2153:	0	0	0	2	1	0	0	1
2161:	0	0	0	0	1	1	1	0
2169:	0	0	0	0	0	1	1	1
2177:	1	0	0	0	0	1	0	0
2185:	1	1	1	0	1	0	0	0
2193:	2	0	0	0	0	4	0	0
2201:	0	1	4	9	4	1	0	0
2209:	1	2	1	0	1	0	1	0
2217:	1	0	2	1	1	1	0	0
2225:	1	0	1	1	0	0	0	0
2233:	1	0	0	0	2	0	3	0
2241:	1	1	0	3	0	0	0	1
2249:	1	0	0	1	1	0	2	1
2257:	0	0	0	2	0	1	2	1
2265:	0	0	2	0	1	2	2	2
2273:	0	1	0	1	0	2	2	1
2281:	0	0	1	1	1	0	1	0
2289:	0	0	2	3	1	0	0	0
2297:	0	0	0	1	3	1	0	0
2305:	1	1	1	0	1	0	0	1
2313:	1	1	1	0	1	1	0	2
2321:	1	2	0	0	1	0	0	1
2329:	0	0	0	0	2	0	0	1
2337:	0	1	0	0	0	1	1	1
2345:	0	0	0	0	2	1	1	0
2353:	0	1	1	2	0	0	1	0
2361:	0	0	2	1	2	0	0	0
2369:	0	1	0	0	0	3	0	0
2377:	0	0	0	1	0	1	2	0
2385:	0	1	2	0	0	1	1	0
2393:	1	2	0	0	0	0	0	2
2401:	1	1	1	1	0	0	0	3
2409:	1	0	0	1	0	0	3	0
2417:	0	1	0	0	1	0	1	1
2425:	0	1	1	0	2	0	2	0
2433:	0	1	0	0	0	0	1	0
2441:	0	0	0	0	1	2	4	0
2449:	2	2	0	2	1	1	0	0
2457:	1	2	0	0	0	0	0	0
2465:	0	1	1	1	0	0	1	1
2473:	0	0	0	0	1	0	1	0
2481:	0	0	1	2	0	0	0	1
2489:	0	0	0	4	1	0	0	1
2497:	0	2	0	0	0	0	0	0
2505:	0	2	0	0	0	1	0	1
2513:	0	0	1	0	0	0	0	0
2521:	1	2	1	0	0	0	0	0

2529:	0	0	0	1	0	0	0	0

Sample Title: FEEBRIS1D-02.020-023

Channel								
2537:	0	1	0	0	0	1	0	0
2545:	0	1	0	0	0	1	1	0
2553:	0	0	0	0	0	0	0	0
2561:	1	1	2	0	1	1	0	0
2569:	0	0	0	0	1	0	0	0
2577:	0	0	0	0	0	0	0	0
2585:	0	1	0	0	0	1	0	0
2593:	0	0	0	0	0	0	1	0
2601:	0	0	0	1	0	0	0	0
2609:	0	0	0	3	9	26	14	9
2617:	1	0	0	0	0	1	0	0
2625:	0	0	0	0	0	1	1	0
2633:	0	0	0	0	1	0	0	0
2641:	1	0	0	0	1	2	0	0
2649:	1	0	0	0	0	0	0	1
2657:	0	0	0	0	2	1	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	0	1	0	0	1	0
2681:	1	0	1	0	0	0	0	2
2689:	0	0	0	0	0	0	0	0
2697:	0	0	0	0	0	0	1	0
2705:	0	0	1	1	0	0	0	0
2713:	0	0	1	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	1	0	0	0	0	1	0	0
2745:	0	0	0	0	0	0	1	0
2753:	0	1	0	0	0	0	0	0
2761:	1	0	0	0	0	0	1	1
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	0	0
2785:	1	0	0	0	0	0	1	0
2793:	0	1	0	0	0	0	0	1
2801:	0	2	0	0	0	0	0	1
2809:	1	0	0	0	0	0	1	0
2817:	1	0	1	0	0	0	0	0
2825:	0	0	0	0	2	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	1	0	2	0	0	0	0	0
2849:	0	0	0	0	0	0	1	0
2857:	0	0	0	0	0	2	0	0
2865:	1	0	0	0	0	0	0	0
2873:	0	0	0	0	0	1	0	0
2881:	0	1	1	1	0	0	0	2
2889:	0	0	1	0	0	1	0	0
2897:	0	1	0	0	0	0	0	0
2905:	0	0	1	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	1
2929:	0	0	0	0	1	0	0	0
2937:	1	0	0	0	0	0	1	0
2945:	1	0	1	0	0	0	0	2
2953:	0	0	0	0	0	0	1	0

2961:	0	0	0	1	0	1	1	0

Sample Title: FEEBRIS1D-02.020-023

Channel								
2969:	0	0	0	0	0	1	1	1
2977:	0	1	0	0	1	0	0	0
2985:	0	1	0	0	0	0	0	0
2993:	0	0	1	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	1	0	0	1	0	0	0
3017:	0	0	0	0	0	0	1	1
3025:	1	0	0	0	0	0	1	0
3033:	1	1	0	1	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	1	0	0
3057:	0	0	0	1	0	1	0	0
3065:	0	0	0	0	0	0	0	0
3073:	1	0	0	0	0	0	0	0
3081:	0	0	1	0	1	0	0	0
3089:	0	0	0	0	0	0	1	0
3097:	0	0	0	0	1	1	0	0
3105:	0	2	0	1	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	1	1	0
3137:	0	1	0	0	0	0	1	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	1	1	0	1	0	0	0	0
3169:	0	0	1	0	0	0	0	0
3177:	0	0	1	0	0	0	0	1
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	1	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	1	1	0	0	0	0
3233:	1	1	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	1
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	2	1	0	0	0	0
3281:	0	0	0	0	1	1	0	0
3289:	0	0	0	0	0	0	0	0
3297:	2	1	0	0	0	0	0	0
3305:	0	0	0	0	0	0	1	0
3313:	0	0	0	0	0	1	0	1
3321:	1	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	1	1	1	0	0	0	0	0
3353:	0	0	0	0	1	0	1	1
3361:	0	0	0	0	1	0	0	0
3369:	0	0	0	0	1	0	0	0
3377:	0	0	1	1	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-02.020-023

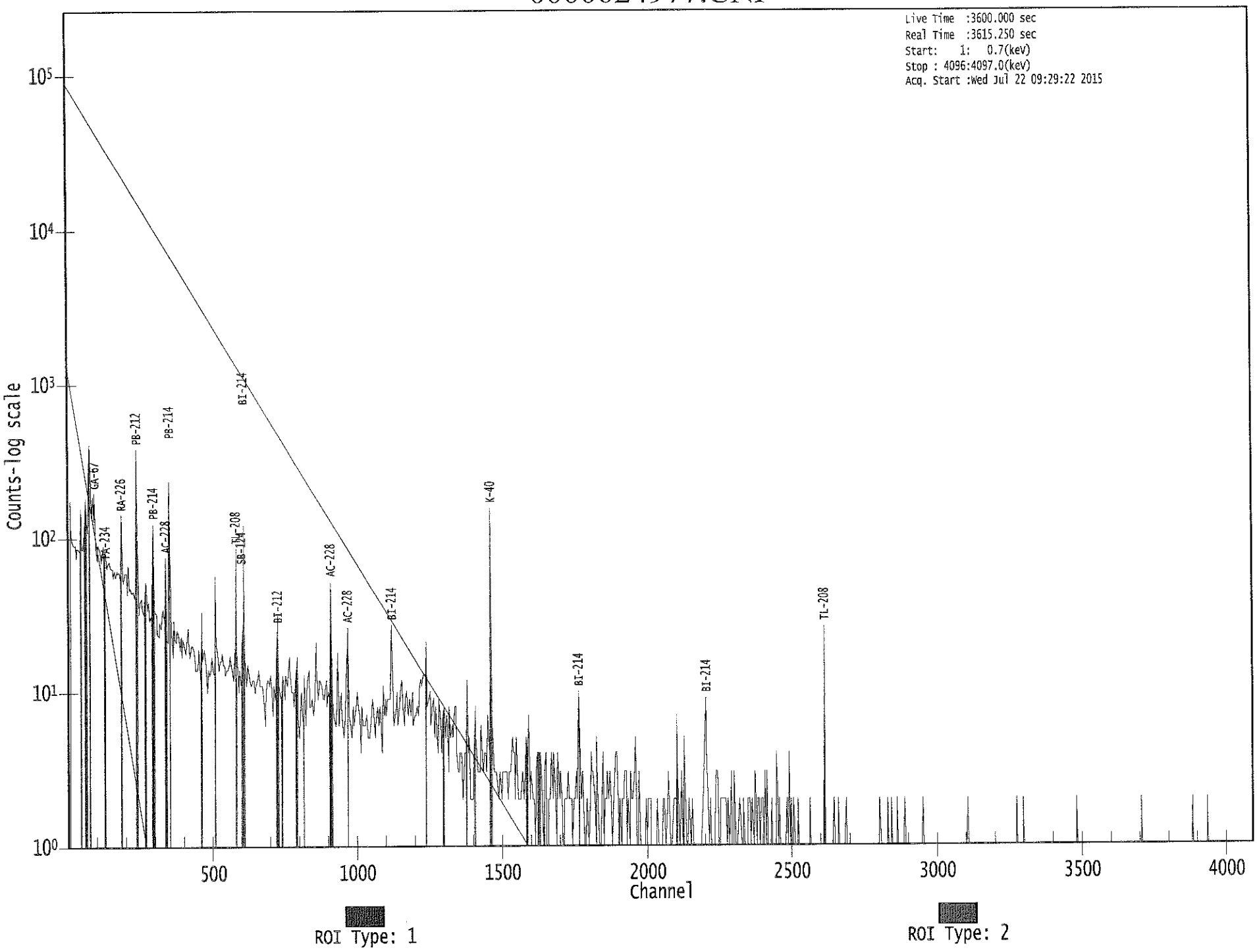
Channel								
3401:	0	0	0	0	0	1	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	1	0	0
3441:	0	1	0	0	0	0	0	0
3449:	0	0	0	0	1	0	0	1
3457:	0	0	0	0	0	0	0	0
3465:	1	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	2	1	0	0	0	0	0	0
3489:	0	1	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	1	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	1	0
3545:	0	0	0	0	0	0	0	1
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	1	0
3569:	0	0	0	0	0	1	0	0
3577:	0	0	0	0	1	0	0	0
3585:	0	0	0	1	0	0	0	0
3593:	0	0	1	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	1	0	0
3625:	0	1	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	1	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	1	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	2	0	0	1	0	0	0	0
3713:	0	0	0	0	0	1	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	1
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	1	1	0	0	0	0	0
3785:	0	0	0	0	0	0	1	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	1	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	1	0	0	0	0	0

Sample Title: FEEBRIS1D-02.020-023

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	1	0	0	0	0	0	1	0
3849:	0	0	0	0	1	0	0	1
3857:	0	0	0	0	0	0	0	0
3865:	0	1	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	2	0	0	0	0
3889:	1	0	0	0	0	1	0	0
3897:	0	1	0	0	1	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	2	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	1	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	1	0	0	0	0
3969:	0	0	1	0	0	0	0	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	0	0	1	0	1	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	1	0	0	0
4033:	0	0	0	0	1	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	1	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	1	0	0	0	1
4089:	0	0	0	0	0	0	0	0

0000024977.CNF



KB 7/22/15

Apex-Gamma

Analysis Report for 1506114-10
FEEBRIS1D-02.036-037

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-10
Sample Description	: FEEBRIS1D-02.036-037
Sample Type	: SOIL
Sample Size	: 5.710E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:40:14AM
Acquisition Started	: 7/22/2015 9:29:32AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3606.6 seconds
Dead Time	: 0.18 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 24978

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 10:30:02AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	75.97	75.24	0.0000	0.00
2	86.58	85.85	0.0000	0.00
3	129.82	129.11	0.0000	0.00
4	239.33	238.67	0.0000	0.00
5	271.01	270.36	0.0000	0.00
6	277.65	277.00	0.0000	0.00
7	294.83	294.19	0.0000	0.00
8	337.60	336.98	0.0000	0.00
9	352.63	352.02	0.0000	0.00
10	473.90	473.34	0.0000	0.00
11	510.97	510.43	0.0000	0.00
12	583.09	582.59	0.0000	0.00
13	609.15	608.66	0.0000	0.00
14	794.16	793.76	0.0000	0.00
15	861.01	860.64	0.0000	0.00
16	912.80	912.46	0.0000	0.00
17	963.60	963.29	0.0000	0.00
18	969.02	968.71	0.0000	0.00
19	1120.75	1120.52	0.0000	0.00
20	1281.41	1281.28	0.0000	0.00
21	1403.54	1403.48	0.0000	0.00
22	1436.70	1436.66	0.0000	0.00
23	1460.43	1460.40	0.0000	0.00
24	1521.49	1521.50	0.0000	0.00
25	1587.57	1587.63	0.0000	0.00
26	1625.43	1625.50	0.0000	0.00
27	1681.25	1681.36	0.0000	0.00
28	1764.19	1764.35	0.0000	0.00
29	2613.55	2614.32	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:30:02AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	75.97	69 -	81	75.24	8.48E+02	143.56	2.02E+03	4.61
	2	86.58	82 -	90	85.85	1.53E+02	101.46	1.50E+03	5.85
	3	129.82	126 -	132	129.11	6.78E+01	62.67	6.58E+02	3.47
	4	239.33	234 -	245	238.67	4.16E+02	84.12	6.73E+02	3.11
	5	271.01	267 -	274	270.36	5.54E+01	45.78	3.13E+02	2.65
	6	277.65	274 -	280	277.00	4.04E+01	38.70	2.39E+02	3.87
	7	294.83	290 -	298	294.19	1.22E+02	53.25	3.63E+02	2.10
	8	337.60	330 -	341	336.98	9.50E+01	57.52	3.66E+02	2.13
	9	352.63	347 -	358	352.02	2.42E+02	56.53	2.68E+02	2.78
	10	473.90	467 -	478	473.34	3.49E+01	39.14	1.74E+02	2.65
	11	510.97	505 -	515	510.43	8.32E+01	42.08	1.90E+02	3.77
	12	583.09	577 -	588	582.59	1.22E+02	39.85	1.36E+02	2.95
	13	609.15	604 -	615	608.66	1.33E+02	42.80	1.63E+02	2.67
	14	794.16	789 -	798	793.76	2.81E+01	25.85	7.79E+01	2.77
	15	861.01	855 -	867	860.64	4.40E+01	28.97	7.80E+01	3.99
	16	912.80	906 -	921	912.46	6.17E+01	39.80	1.25E+02	3.81
M	17	963.60	961 -	977	963.29	1.88E+01	13.27	3.15E+01	2.66
m	18	969.02	961 -	977	968.71	2.80E+01	24.65	6.71E+01	3.15
	19	1120.75	1115 -	1125	1120.52	3.01E+01	27.71	8.17E+01	3.90
	20	1281.41	1278 -	1284	1281.28	1.88E+01	15.56	2.84E+01	3.48
	21	1403.54	1399 -	1410	1403.48	1.64E+01	10.77	7.15E+00	5.60
	22	1436.70	1427 -	1444	1436.66	1.88E+01	21.63	3.44E+01	6.68
	23	1460.43	1455 -	1466	1460.40	2.37E+02	35.89	4.36E+01	2.64
	24	1521.49	1516 -	1526	1521.50	1.22E+01	11.34	9.53E+00	1.16
	25	1587.57	1582 -	1591	1587.63	1.50E+01	14.14	2.00E+01	3.69
	26	1625.43	1623 -	1628	1625.50	5.90E+00	8.19	8.20E+00	1.06
	27	1681.25	1677 -	1685	1681.36	7.90E+00	7.76	4.20E+00	6.63
	28	1764.19	1759 -	1769	1764.35	1.91E+01	15.52	2.19E+01	2.25
	29	2613.55	2610 -	2618	2614.32	3.10E+01	11.14	0.00E+00	2.55

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 2.000sigma

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 10:30:02AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	75.97	69 -	81	8.48E+02	143.56	2.02E+03	1.08E+02
	2	86.58	82 -	90	1.53E+02	101.46	1.50E+03	8.09E+01
	3	129.82	126 -	132	6.78E+01	62.67	6.58E+02	4.97E+01
	4	239.33	234 -	245	4.16E+02	84.12	6.73E+02	6.05E+01
	5	271.01	267 -	274	5.54E+01	45.78	3.13E+02	3.56E+01
	6	277.65	274 -	280	4.04E+01	38.70	2.39E+02	3.00E+01
	7	294.83	290 -	298	1.22E+02	53.25	3.63E+02	3.98E+01
	8	337.60	330 -	341	9.50E+01	57.52	3.66E+02	2.04E+01
	9	352.63	347 -	358	2.42E+02	56.53	2.68E+02	3.88E+01
	10	473.90	467 -	478	3.49E+01	39.14	1.74E+02	3.07E+01
	11	510.97	505 -	515	8.32E+01	42.08	1.90E+02	3.12E+01
	12	583.09	577 -	588	1.22E+02	39.85	1.36E+02	2.73E+01
	13	609.15	604 -	615	1.33E+02	42.80	1.63E+02	2.96E+01
	14	794.16	789 -	798	2.81E+01	25.85	7.79E+01	1.94E+01
	15	861.01	855 -	867	4.40E+01	28.97	7.80E+01	2.12E+01
	16	912.80	906 -	921	6.17E+01	39.80	1.25E+02	3.01E+01
M	17	963.60	961 -	977	1.88E+01	13.27	3.15E+01	9.23E+00
m	18	969.02	961 -	977	2.80E+01	24.65	6.71E+01	1.35E+01
	19	1120.75	1115 -	1125	3.01E+01	27.71	8.17E+01	2.09E+01
	20	1281.41	1278 -	1284	1.88E+01	15.56	2.84E+01	1.06E+01
	21	1403.54	1399 -	1410	1.64E+01	10.77	7.15E+00	5.83E+00
	22	1436.70	1427 -	1444	1.88E+01	21.63	3.44E+01	1.63E+01
	23	1460.43	1455 -	1466	2.37E+02	35.89	4.36E+01	1.51E+01
	24	1521.49	1516 -	1526	1.22E+01	11.34	9.53E+00	7.33E+00
	25	1587.57	1582 -	1591	1.50E+01	14.14	2.00E+01	9.73E+00
	26	1625.43	1623 -	1628	5.90E+00	8.19	8.20E+00	5.42E+00
	27	1681.25	1677 -	1685	7.90E+00	7.76	4.20E+00	4.40E+00
	28	1764.19	1759 -	1769	1.91E+01	15.52	2.19E+01	1.06E+01
	29	2613.55	2610 -	2618	3.10E+01	11.14	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 10:30:02AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	75.97	69 -	81	75.24	8.48E+02	143.56	2.02E+03	.....
	2	86.58	82 -	90	85.85	1.53E+02	101.46	1.50E+03	NP-237
									EU-155
									SN-126
	3	129.82	126 -	132	129.11	6.78E+01	62.67	6.58E+02	.....
	4	239.33	234 -	245	238.67	4.16E+02	84.12	6.73E+02	PB-212
	5	271.01	267 -	274	270.36	5.54E+01	45.78	3.13E+02	.....
	6	277.65	274 -	280	277.00	4.04E+01	38.70	2.39E+02	CM-243
									NP-239
	7	294.83	290 -	298	294.19	1.22E+02	53.25	3.63E+02	PB-214
	8	337.60	330 -	341	336.98	9.50E+01	57.52	3.66E+02	AC-228
	9	352.63	347 -	358	352.02	2.42E+02	56.53	2.68E+02	PB-214
	10	473.90	467 -	478	473.34	3.49E+01	39.14	1.74E+02	SB-127
	11	510.97	505 -	515	510.43	8.32E+01	42.08	1.90E+02	.....
	12	583.09	577 -	588	582.59	1.22E+02	39.85	1.36E+02	TL-208
	13	609.15	604 -	615	608.66	1.33E+02	42.80	1.63E+02	BI-214
	14	794.16	789 -	798	793.76	2.81E+01	25.85	7.79E+01	.....
	15	861.01	855 -	867	860.64	4.40E+01	28.97	7.80E+01	TL-208
	16	912.80	906 -	921	912.46	6.17E+01	39.80	1.25E+02	LU-172
M	17	963.60	961 -	977	963.29	1.88E+01	13.27	3.15E+01	EU-152
m	18	969.02	961 -	977	968.71	2.80E+01	24.65	6.71E+01	AC-228
	19	1120.75	1115 -	1125	1120.52	3.01E+01	27.71	8.17E+01	SC-46
									BI-214
									TA-182
	20	1281.41	1278 -	1284	1281.28	1.88E+01	15.56	2.84E+01	.....
	21	1403.54	1399 -	1410	1403.48	1.64E+01	10.77	7.15E+00	.....
	22	1436.70	1427 -	1444	1436.66	1.88E+01	21.63	3.44E+01	LA-138
	23	1460.43	1455 -	1466	1460.40	2.37E+02	35.89	4.36E+01	K-40
	24	1521.49	1516 -	1526	1521.50	1.22E+01	11.34	9.53E+00	.....
	25	1587.57	1582 -	1591	1587.63	1.50E+01	14.14	2.00E+01	.....
	26	1625.43	1623 -	1628	1625.50	5.90E+00	8.19	8.20E+00	.....
	27	1681.25	1677 -	1685	1681.36	7.90E+00	7.76	4.20E+00	.....
	28	1764.19	1759 -	1769	1764.35	1.91E+01	15.52	2.19E+01	BI-214
	29	2613.55	2610 -	2618	2614.32	3.10E+01	11.14	0.00E+00	.....

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 10:30:02AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	75.97	8.48E+02	143.56	2.13E-02	1.69E-03
	2	86.58	1.53E+02	101.46	1.98E-02	1.64E-03
	3	129.82	6.78E+01	62.67	1.53E-02	1.47E-03
	4	239.33	4.16E+02	84.12	9.39E-03	9.85E-04
	5	271.01	5.54E+01	45.78	8.41E-03	8.86E-04
	6	277.65	4.04E+01	38.70	8.23E-03	8.66E-04
	7	294.83	1.22E+02	53.25	7.79E-03	8.44E-04
	8	337.60	9.50E+01	57.52	6.87E-03	7.96E-04
	9	352.63	2.42E+02	56.53	6.60E-03	7.79E-04
	10	473.90	3.49E+01	39.14	4.96E-03	6.16E-04
	11	510.97	8.32E+01	42.08	4.61E-03	5.61E-04
	12	583.09	1.22E+02	39.85	4.05E-03	4.55E-04
	13	609.15	1.33E+02	42.80	3.88E-03	4.17E-04
	14	794.16	2.81E+01	25.85	2.98E-03	2.66E-04
	15	861.01	4.40E+01	28.97	2.76E-03	2.29E-04
	16	912.80	6.17E+01	39.80	2.61E-03	2.06E-04
M	17	963.60	1.88E+01	13.27	2.47E-03	2.00E-04
m	18	969.02	2.80E+01	24.65	2.46E-03	1.99E-04
	19	1120.75	3.01E+01	27.71	2.14E-03	1.79E-04
	20	1281.41	1.88E+01	15.56	1.89E-03	2.02E-04
	21	1403.54	1.64E+01	10.77	1.74E-03	2.01E-04
	22	1436.70	1.88E+01	21.63	1.71E-03	1.94E-04
	23	1460.43	2.37E+02	35.89	1.68E-03	1.89E-04
	24	1521.49	1.22E+01	11.34	1.63E-03	1.76E-04
	25	1587.57	1.50E+01	14.14	1.57E-03	1.63E-04
	26	1625.43	5.90E+00	8.19	1.54E-03	1.55E-04
	27	1681.25	7.90E+00	7.76	1.49E-03	1.43E-04
	28	1764.19	1.91E+01	15.52	1.43E-03	1.26E-04
	29	2613.55	3.10E+01	11.14	1.07E-03	1.11E-04

: 0715

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 10:30:02AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	75.97	8.48E+02	143.56			8.48E+02	1.44E+02
	2	86.58	1.53E+02	101.46			1.53E+02	1.01E+02
	3	129.82	6.78E+01	62.67			6.78E+01	6.27E+01
	4	239.33	4.16E+02	84.12	4.80E+00	4.74E+00	4.11E+02	8.43E+01
	5	271.01	5.54E+01	45.78			5.54E+01	4.58E+01
	6	277.65	4.04E+01	38.70			4.04E+01	3.87E+01
	7	294.83	1.22E+02	53.25			1.22E+02	5.33E+01
	8	337.60	9.50E+01	57.52			9.50E+01	5.75E+01
	9	352.63	2.42E+02	56.53			2.42E+02	5.65E+01
	10	473.90	3.49E+01	39.14			3.49E+01	3.91E+01
	11	510.97	8.32E+01	42.08	4.72E+01	4.90E+00	3.59E+01	4.24E+01
	12	583.09	1.22E+02	39.85			1.22E+02	3.98E+01
	13	609.15	1.33E+02	42.80			1.33E+02	4.28E+01
	14	794.16	2.81E+01	25.85			2.81E+01	2.58E+01
	15	861.01	4.40E+01	28.97			4.40E+01	2.90E+01
	16	912.80	6.17E+01	39.80			6.17E+01	3.98E+01
M	17	963.60	1.88E+01	13.27			1.88E+01	1.33E+01
m	18	969.02	2.80E+01	24.65			2.80E+01	2.47E+01
	19	1120.75	3.01E+01	27.71			3.01E+01	2.77E+01
	20	1281.41	1.88E+01	15.56			1.88E+01	1.56E+01
	21	1403.54	1.64E+01	10.77			1.64E+01	1.08E+01
	22	1436.70	1.88E+01	21.63			1.88E+01	2.16E+01
	23	1460.43	2.37E+02	35.89			2.37E+02	3.59E+01
	24	1521.49	1.22E+01	11.34			1.22E+01	1.13E+01
	25	1587.57	1.50E+01	14.14			1.50E+01	1.41E+01
	26	1625.43	5.90E+00	8.19			5.90E+00	8.19E+00
	27	1681.25	7.90E+00	7.76			7.90E+00	7.76E+00
	28	1764.19	1.91E+01	15.52			1.91E+01	1.55E+01
	29	2613.55	3.10E+01	11.14	5.52E-01	9.86E-01	3.04E+01	1.12E+01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 10:30:02AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	75.97	8.48E+02	143.56			8.48E+02	1.44E+02
	2	86.58	1.53E+02	101.46			1.53E+02	1.01E+02
	3	129.82	6.78E+01	62.67			6.78E+01	6.27E+01
	4	239.33	4.16E+02	84.12	4.80E+00	4.74E+00	4.11E+02	8.43E+01
	5	271.01	5.54E+01	45.78			5.54E+01	4.58E+01
	6	277.65	4.04E+01	38.70			4.04E+01	3.87E+01
	7	294.83	1.22E+02	53.25			1.22E+02	5.33E+01
	8	337.60	9.50E+01	57.52			9.50E+01	5.75E+01
	9	352.63	2.42E+02	56.53			2.42E+02	5.65E+01
	10	473.90	3.49E+01	39.14			3.49E+01	3.91E+01
	11	510.97	8.32E+01	42.08	4.72E+01	4.90E+00	3.59E+01	4.24E+01
	12	583.09	1.22E+02	39.85			1.22E+02	3.98E+01
	13	609.15	1.33E+02	42.80			1.33E+02	4.28E+01
	14	794.16	2.81E+01	25.85			2.81E+01	2.58E+01
	15	861.01	4.40E+01	28.97			4.40E+01	2.90E+01
	16	912.80	6.17E+01	39.80			6.17E+01	3.98E+01
M	17	963.60	1.88E+01	13.27			1.88E+01	1.33E+01
m	18	969.02	2.80E+01	24.65			2.80E+01	2.47E+01
	19	1120.75	3.01E+01	27.71			3.01E+01	2.77E+01
	20	1281.41	1.88E+01	15.56			1.88E+01	1.56E+01
	21	1403.54	1.64E+01	10.77			1.64E+01	1.08E+01
	22	1436.70	1.88E+01	21.63			1.88E+01	2.16E+01
	23	1460.43	2.37E+02	35.89			2.37E+02	3.59E+01
	24	1521.49	1.22E+01	11.34			1.22E+01	1.13E+01
	25	1587.57	1.50E+01	14.14			1.50E+01	1.41E+01
	26	1625.43	5.90E+00	8.19			5.90E+00	8.19E+00
	27	1681.25	7.90E+00	7.76			7.90E+00	7.76E+00
	28	1764.19	1.91E+01	15.52			1.91E+01	1.55E+01
	29	2613.55	3.10E+01	11.14	5.52E-01	9.86E-01	3.04E+01	1.12E+01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.977	1460.81	*	10.67	1.74E+01	3.29E+00
SN-126	0.854	87.57	*	37.00	2.74E-01	1.83E-01
EU-155	0.380	86.50	*	30.90	3.32E-01	2.22E-01
		105.30		20.70		
TL-208	0.432	583.14	*	30.22	1.31E+00	4.53E-01
		860.37	*	4.48	4.68E+00	3.11E+00
		2614.66		35.85		
PB-212	0.826	238.63	*	44.60	1.29E+00	2.97E-01
		300.09		3.41		
BI-214	0.925	609.31	*	46.30	9.78E-01	3.31E-01
		1120.29	*	15.10	1.22E+00	1.13E+00
		1764.49	*	15.80	1.11E+00	9.06E-01
		2204.22		4.98		
PB-214	0.941	295.21	*	19.19	1.08E+00	4.82E-01
		351.92	*	37.19	1.30E+00	3.39E-01
NP-237	0.999	86.50	*	12.60	8.04E-01	5.39E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:30:02AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	75.97	2.35686E-01	8.46		
	3	129.82	1.88371E-02	46.21		
	5	271.01	1.53996E-02	41.29		
	6	277.65	1.12326E-02	47.85	Tol.	NP-239 CM-243
	8	337.60	2.63964E-02	30.26	Tol.	AC-228
	10	473.90	9.68579E-03	56.13	Tol.	SB-127
	11	510.97	9.98065E-03	58.95		
	14	794.16	7.79851E-03	46.03		
	16	912.80	1.71472E-02	32.24	Tol.	LU-172
M	17	963.60	5.22902E-03	35.24	Tol.	EU-152
m	18	969.02	7.78538E-03	43.98	Tol.	AC-228
	20	1281.41	5.22306E-03	41.39		
	21	1403.54	4.56250E-03	32.79		
	22	1436.70	5.21605E-03	57.60	Tol.	LA-138
	24	1521.49	3.39869E-03	46.32		
	25	1587.57	4.16667E-03	47.14		
	26	1625.43	1.63889E-03	69.37		
	27	1681.25	2.19444E-03	49.13		
	29	2613.55	8.45765E-03	18.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.74E+01	3.29E+00
SN-126	0.85	87.57	*	37.00	2.74E-01	1.83E-01
EU-155	0.38	86.50	*	30.90	3.32E-01	2.22E-01
		105.30		20.70		
TL-208	0.43	583.14	*	30.22	1.31E+00	4.53E-01
		860.37	*	4.48	4.68E+00	3.11E+00

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.43	2614.66		35.85		
PB-212	0.82	238.63	*	44.60	1.29E+00	2.97E-01
		300.09		3.41		
BI-214	0.92	609.31	*	46.30	9.78E-01	3.31E-01
		1120.29	*	15.10	1.22E+00	1.13E+00
		1764.49	*	15.80	1.11E+00	9.06E-01
		2204.22		4.98		
PB-214	0.94	295.21	*	19.19	1.08E+00	4.82E-01
		351.92	*	37.19	1.30E+00	3.39E-01
NP-237	0.99	86.50	*	12.60	8.04E-01	5.39E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.977	1.74E+01	3.29E+00	
?	SN-126	0.854	2.74E-01	1.83E-01	
?	EU-155	0.380	3.32E-01	2.22E-01	
	TL-208	0.432	1.38E+00	4.48E-01	
	PB-212	0.826	1.29E+00	2.97E-01	
	BI-214	0.925	1.01E+00	3.00E-01	
	PB-214	0.941	1.22E+00	2.78E-01	
?	NP-237	0.999	8.04E-01	5.39E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 10:30:02AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	75.97	2.35686E-01	8.46		
	3	129.82	1.88371E-02	46.21		
	5	271.01	1.53996E-02	41.29		
	6	277.65	1.12326E-02	47.85	Tol.	NP-239
						CM-243
	8	337.60	2.63964E-02	30.26	Tol.	AC-228
	10	473.90	9.68579E-03	56.13	Tol.	SB-127
	11	510.97	9.98065E-03	58.95		
	14	794.16	7.79851E-03	46.03		
	16	912.80	1.71472E-02	32.24	Tol.	LU-172
M	17	963.60	5.22902E-03	35.24	Tol.	EU-152
m	18	969.02	7.78538E-03	43.98	Tol.	AC-228
	20	1281.41	5.22306E-03	41.39		
	21	1403.54	4.56250E-03	32.79		
	22	1436.70	5.21605E-03	57.60	Tol.	LA-138
	24	1521.49	3.39869E-03	46.32		
	25	1587.57	4.16667E-03	47.14		
	26	1625.43	1.63889E-03	69.37		
	27	1681.25	2.19444E-03	49.13		
	29	2613.55	8.45765E-03	18.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.24E-01	1.83E+00	1.83E+00
+	NA-22	1274.54		99.94	-1.76E-02	2.14E-01	2.14E-01
+	NA-24	1368.53		99.99	9.72E+11	1.08E+13	5.31E+13
		2754.09		99.86	0.00E+00		1.08E+13
+	AL-26	1808.65		99.76	-2.19E-02	1.23E-01	1.23E-01
+	K-40	1460.81	*	10.67	1.74E+01	2.41E+00	2.41E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-3.10E-02	8.48E-02	8.48E-02
		78.34		96.00	2.55E-01		1.15E-01
+	SC-46	889.25		99.98	-5.67E-02	2.07E-01	2.07E-01
		1120.51		99.99	2.86E-01		3.21E-01
+	V-48	983.52		99.98	1.44E-01	6.93E-01	6.93E-01
		1312.10		97.50	3.19E-01		7.57E-01
+	CR-51	320.08		9.83	-1.02E+00	2.43E+00	2.43E+00
+	MN-54	834.83		99.97	-1.15E-01	1.86E-01	1.86E-01
+	CO-56	846.75		99.96	-8.59E-02	2.12E-01	2.12E-01
		1037.75		14.03	4.53E-01		1.87E+00
		1238.25		67.00	3.14E-01		4.95E-01
		1771.40		15.51	-3.04E-01		1.16E+00
		2598.48		16.90	1.05E-02		1.01E+00
+	CO-57	122.06		85.51	-2.21E-02	1.08E-01	1.08E-01
		136.48		10.60	-2.89E-01		9.19E-01
+	CO-58	810.76		99.40	-1.08E-01	2.08E-01	2.08E-01
+	FE-59	1099.22		56.50	-1.37E-01	4.94E-01	4.94E-01
		1291.56		43.20	8.00E-02		7.39E-01
+	CO-60	1173.22		100.00	-8.46E-03	1.89E-01	2.06E-01
		1332.49		100.00	4.58E-02		1.89E-01
+	ZN-65	1115.52		50.75	-1.64E-03	4.45E-01	4.45E-01
+	GA-67	93.31		35.70	-5.74E+00	1.48E+02	1.48E+02
		208.95		2.24	5.76E+02		2.96E+03
		300.22		16.00	9.61E+01		4.65E+02
+	SE-75	121.11		16.70	-4.58E-02	1.84E-01	6.05E-01
		136.00		59.20	-1.34E-02		1.84E-01
		264.65		59.80	-4.58E-02		2.07E-01
		279.53		25.20	-3.46E-02		5.26E-01
		400.65		11.40	-7.80E-01		1.20E+00
+	RB-82	776.52		13.00	2.71E-01	2.69E+00	2.69E+00
+	RB-83	520.41		46.00	-7.60E-02	3.04E-01	3.04E-01
		529.64		30.30	4.20E-02		5.31E-01
		552.65		16.40	1.77E-01		1.03E+00
+	KR-85	513.99		0.43	-1.70E+00	3.94E+01	3.94E+01
+	SR-85	513.99		99.27	-1.02E-02	2.36E-01	2.36E-01
+	Y-88	898.02		93.40	-4.16E-02	2.10E-01	2.22E-01
		1836.01		99.38	1.05E-03		2.10E-01
+	NB-93M	16.57		9.43	8.45E-01	4.43E-01	4.43E-01
+	NB-94	702.63		100.00	-7.57E-03	1.58E-01	1.58E-01
		871.10		100.00	4.31E-02		1.68E-01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	2.68E-01	3.44E-01	3.44E-01
+	NB-95M	235.69		25.00	4.83E+00	2.06E+02	2.06E+02
+	ZR-95	724.18		43.70	3.12E-01	3.92E-01	5.35E-01
		756.72		55.30	-1.17E-01		3.92E-01
+	MO-99	181.06		6.20	-1.13E+03	2.33E+03	3.35E+03
		739.58		12.80	7.19E+02		2.33E+03
		778.00		4.50	-2.87E+03		6.59E+03
+	RU-103	497.08		89.00	-3.53E-02	2.43E-01	2.43E-01
+	RU-106	621.84		9.80	1.08E-02	1.61E+00	1.61E+00
+	AG-108M	433.93		89.90	-8.07E-02	1.37E-01	1.37E-01
		614.37		90.40	1.97E-02		1.85E-01
		722.95		90.50	5.59E-02		1.79E-01
+	CD-109	88.03		3.72	2.72E+00	2.71E+00	2.71E+00
+	AG-110M	657.75		93.14	-2.06E-03	1.60E-01	1.60E-01
		677.61		10.53	-2.06E-01		1.37E+00
		706.67		16.46	-3.56E-01		1.01E+00
		763.93		21.98	5.03E-01		9.19E-01
		884.67		71.63	-3.41E-02		2.41E-01
		1384.27		23.94	-5.48E-01		5.89E-01
+	CD-113M	263.70		0.02	1.98E+01	4.60E+02	4.60E+02
+	SN-113	255.12		1.93	-3.31E+00	2.27E-01	6.52E+00
		391.69		64.90	1.26E-01		2.27E-01
+	TE123M	159.00		84.10	2.58E-02	1.38E-01	1.38E-01
+	SB-124	602.71		97.87	5.04E-02	2.02E-01	2.02E-01
		645.85		7.26	1.81E-01		2.60E+00
		722.78		11.10	2.46E-01		2.01E+00
		1691.02		49.00	-5.11E-02		3.07E-01
+	I-125	35.49		6.49	-5.35E-02	1.04E+00	1.04E+00
+	SB-125	176.33		6.89	-6.02E-01	4.21E-01	1.44E+00
		427.89		29.33	2.02E-02		4.21E-01
		463.38		10.35	4.35E-01		1.27E+00
		600.56		17.80	1.07E-01		7.82E-01
		635.90		11.32	-6.29E-01		1.27E+00
+	SB-126	414.70		83.30	3.37E-01	7.93E-01	8.25E-01
		666.33		99.60	1.02E-01		7.93E-01
		695.00		99.60	4.83E-01		8.74E-01
		720.50		53.80	-7.27E-01		1.45E+00
+	SN-126	87.57	*	37.00	2.74E-01	2.95E-01	2.95E-01
+	SB-127	473.00		25.00	6.15E+01	8.41E+01	1.16E+02
		685.20		35.70	7.36E-01		8.41E+01
		783.80		14.70	9.12E+01		2.52E+02
+	I-129	29.78		57.00	-2.44E-02	7.96E-02	7.96E-02
		33.60		13.20	4.87E-02		3.52E-01
		39.58		7.52	-4.35E-01		6.75E-01
+	I-131	284.30		6.05	7.69E+00	1.79E+00	2.43E+01
		364.48		81.20	2.65E-01		1.79E+00
		636.97		7.26	-7.72E+00		2.61E+01
		722.89		1.80	1.44E+01		1.18E+02

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	1.92E+02	6.95E+01	2.85E+02
			228.16	88.00	-3.85E+01		6.95E+01
+		BA-133	81.00	33.00	-2.27E-01	2.78E-01	3.10E-01
			302.84	17.80	-3.64E-02		6.72E-01
			356.01	60.00	5.59E-01		2.78E-01
+		I-133	529.87	86.30	3.29E+08	4.16E+09	4.16E+09
+		CS-134	563.23	8.38	2.53E-01	1.93E-01	1.68E+00
			569.32	15.43	-2.44E-01		9.03E-01
			604.70	97.60	2.46E-02		1.93E-01
			795.84	85.40	2.63E-02		2.04E-01
			801.93	8.73	3.68E-01		2.08E+00
+		CS-135	268.24	16.00	-9.87E-03	7.21E-01	7.21E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	5.50E-01	7.22E-01	6.25E+00
			163.89	4.61	1.39E+00		1.04E+01
			176.55	13.56	-1.46E+00		3.50E+00
			273.65	12.66	4.53E+00		4.65E+00
			340.57	48.50	1.41E-01		1.42E+00
			818.50	99.70	-5.63E-02		7.22E-01
			1048.07	79.60	0.00E+00		1.08E+00
			1235.34	19.70	-2.20E+00		5.58E+00
+		CS-137	661.65	85.12	-2.91E-03	1.65E-01	1.65E-01
+		LA-138	788.74	34.00	1.37E-01	2.74E-01	4.99E-01
			1435.80	66.00	-1.28E-02		2.74E-01
+		CE-139	165.85	80.35	4.50E-02	1.43E-01	1.43E-01
+		BA-140	162.64	6.70	2.04E+00	2.55E+00	7.47E+00
			304.84	4.50	1.20E+00		1.35E+01
			423.70	3.20	-3.69E-01		1.85E+01
			437.55	2.00	1.14E+01		3.31E+01
			537.32	25.00	3.15E-02		2.55E+00
+		LA-140	328.77	20.50	-2.84E-01	8.79E-01	3.04E+00
			487.03	45.50	2.98E-03		1.42E+00
			815.85	23.50	-7.59E-01		3.16E+00
			1596.49	95.49	-1.41E-01		8.79E-01
+		CE-141	145.44	48.40	2.26E-01	3.81E-01	3.81E-01
+		CE-143	57.36	11.80	-1.71E+06	1.29E+06	2.20E+06
			293.26	42.00	1.15E+06		1.29E+06
			664.55	5.20	3.38E+06		1.10E+07
+		CE-144	133.54	10.80	7.77E-02	9.22E-01	9.22E-01
+		PM-144	476.78	42.00	-1.01E-02	1.56E-01	3.21E-01
			618.01	98.60	1.54E-02		1.56E-01
			696.49	99.49	6.43E-02		1.70E-01
+		PM-145	36.85	21.70	-1.32E-01	1.23E-01	2.21E-01
			37.36	39.70	-4.46E-02		1.23E-01
			42.30	15.10	1.61E-01		3.68E-01
			72.40	2.31	7.03E+00		4.53E+00
+		PM-146	453.90	39.94	-1.13E-01	3.07E-01	3.07E-01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90		14.01	2.30E-01	3.07E-01	1.10E+00
		747.13		13.10	7.07E-02		1.20E+00
+	ND-147	91.11		28.90	1.76E+00	2.26E+00	2.26E+00
		531.02		13.10	-1.74E-01		6.46E+00
+	PM-149	285.90		3.10	5.95E+02	4.46E+04	4.46E+04
+	EU-152	121.78		20.50	-8.56E-02	4.19E-01	4.19E-01
		244.69		5.40	1.33E-01		2.40E+00
		344.27		19.13	1.29E-02		6.22E-01
		778.89		9.20	-7.17E-01		1.65E+00
		964.01		10.40	7.02E-01		2.12E+00
		1085.78		7.22	1.06E+00		2.78E+00
		1112.02		9.60	-4.15E-01		1.85E+00
		1407.95		14.94	-1.52E-01		9.56E-01
+	GD-153	97.43		31.30	-3.30E-01	2.80E-01	2.80E-01
		103.18		22.20	2.84E-01		4.03E-01
+	EU-154	123.07		40.50	-3.48E-02	2.15E-01	2.15E-01
		723.30		19.70	2.58E-01		8.26E-01
		873.19		11.50	4.23E-01		1.53E+00
		996.32		10.30	-3.88E-01		1.70E+00
		1004.76		17.90	2.93E-01		9.88E-01
		1274.45		35.50	-4.89E-02		5.92E-01
+	EU-155	86.50	*	30.90	3.32E-01	3.58E-01	3.58E-01
		105.30		20.70	-8.71E-02		3.95E-01
+	EU-156	811.77		10.40	-1.54E+00	5.80E+00	5.80E+00
		1153.47		7.20	5.34E+00		1.16E+01
		1230.71		8.90	-2.33E+00		9.76E+00
+	HO-166M	184.41		72.60	1.26E-01	1.55E-01	1.55E-01
		280.45		29.60	-3.61E-02		3.75E-01
		410.94		11.10	1.01E+00		1.24E+00
		711.69		54.10	1.10E-02		2.81E-01
+	TM-171	66.72		0.14	1.41E+01	5.90E+01	5.90E+01
+	HF-172	81.75		4.52	-6.33E+00	8.26E-01	2.18E+00
		125.81		11.30	1.87E-02		8.26E-01
+	LU-172	181.53		20.60	5.73E+00	6.78E+00	1.19E+01
		810.06		16.63	-1.08E+01		2.08E+01
		912.12		15.25	3.40E+01		3.49E+01
		1093.66		62.50	1.77E+00		6.78E+00
+	LU-173	100.72		5.24	-6.61E-01	5.71E-01	1.58E+00
		272.11		21.20	8.81E-02		5.71E-01
+	HF-175	343.40		84.00	3.95E-03	1.99E-01	1.99E-01
+	LU-176	88.34		13.30	2.61E-01	1.21E-01	7.33E-01
		201.83		86.00	-1.01E-02		1.29E-01
		306.78		94.00	-3.92E-02		1.21E-01
+	TA-182	67.75		41.20	-8.51E-02	2.33E-01	2.33E-01
		1121.30		34.90	4.42E-01		8.43E-01
		1189.05		16.23	2.83E-01		1.64E+00
		1221.41		26.98	-1.18E-01		9.28E-01
		1231.02		11.44	-5.51E-01		2.31E+00
+	IR-192	308.46		29.68	-2.48E-01	3.18E-01	5.05E-01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	-3.14E-02	3.18E-01	3.18E-01
+	HG-203	279.19		77.30	-1.48E-02	2.25E-01	2.25E-01
+	BI-207	569.67		97.72	-3.75E-02	1.39E-01	1.39E-01
		1063.62		74.90	-4.83E-02		2.39E-01
+	TL-208	583.14	*	30.22	1.31E+00	6.16E-01	6.16E-01
		860.37	*	4.48	4.68E+00		4.80E+00
		2614.66		35.85	0.00E+00		9.79E-01
+	BI-210M	262.00		45.00	1.14E-01	2.38E-01	2.38E-01
		300.00		23.00	1.41E-01		5.89E-01
+	PB-210	46.50		4.25	5.21E-02	1.38E+00	1.38E+00
+	PB-211	404.84		2.90	1.55E+00	4.47E+00	4.47E+00
		831.96		2.90	2.19E+00		6.35E+00
+	BI-212	727.17		11.80	4.14E-01	1.40E+00	1.40E+00
		1620.62		2.75	1.73E-01		6.62E+00
+	PB-212	238.63	*	44.60	1.29E+00	3.90E-01	3.90E-01
		300.09		3.41	9.49E-01		3.97E+00
+	BI-214	609.31	*	46.30	9.78E-01	4.54E-01	4.54E-01
		1120.29	*	15.10	1.22E+00		1.81E+00
		1764.49	*	15.80	1.11E+00		1.38E+00
		2204.22		4.98	2.26E+00		4.79E+00
+	PB-214	295.21	*	19.19	1.08E+00	4.31E-01	7.24E-01
		351.92	*	37.19	1.30E+00		4.31E-01
+	RN-219	401.80		6.50	-7.47E-01	1.79E+00	1.79E+00
+	RA-223	323.87		3.88	6.52E-01	3.03E+00	3.03E+00
+	RA-224	240.98		3.95	1.52E+01	4.38E+00	4.38E+00
+	RA-225	40.00		31.00	-4.34E-01	6.73E-01	6.73E-01
+	RA-226	186.21		3.28	2.27E+00	3.42E+00	3.42E+00
+	TH-227	50.10		8.40	4.97E-01	7.38E-01	7.38E-01
		236.00		11.50	3.25E-02		1.39E+00
		256.20		6.30	9.80E-02		1.67E+00
+	AC-228	338.32		11.40	6.70E-01	8.56E-01	1.20E+00
		911.07		27.70	8.52E-01		8.56E-01
		969.11		16.60	3.25E-01		1.31E+00
+	TH-230	48.44		16.90	1.84E-01	3.58E-01	3.58E-01
		62.85		4.60	1.36E+00		1.67E+00
		67.67		0.37	-7.89E+00		2.16E+01
+	PA-231	283.67		1.60	1.45E+00	5.17E+00	6.84E+00
		302.67		2.30	-2.80E-01		5.17E+00
+	TH-231	25.64		14.70	-8.15E-02	3.19E-01	3.19E-01
		84.21		6.40	-5.35E+00		1.41E+00
+	PA-233	311.98		38.60	2.72E-01	6.61E-01	6.61E-01
+	PA-234	131.20		20.40	-6.94E-02	4.50E-01	4.50E-01
		733.99		8.80	-2.56E-01		1.69E+00
		946.00		12.00	1.91E-01		1.46E+00
+	PA-234M	1001.03		0.92	5.44E+00	1.90E+01	1.90E+01
+	TH-234	63.29		3.80	1.47E+00	2.05E+00	2.05E+00
+	U-235	143.76		10.50	3.07E-01	9.19E-01	9.19E-01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35		4.70	2.79E-01	9.19E-01	2.08E+00
		205.31		4.70	-4.21E-01		2.34E+00
+	NP-237	86.50	*	12.60	8.04E-01	8.67E-01	8.67E-01
+	NP-239	106.10		22.70	-5.55E+02	2.52E+03	2.52E+03
		228.18		10.70	-1.36E+03		6.82E+03
		277.60		14.10	-3.74E+03		5.43E+03
+	AM-241	59.54		35.90	4.70E-02	2.01E-01	2.01E-01
+	AM-243	74.67		66.00	7.35E-01	1.72E-01	1.72E-01
+	CM-243	209.75		3.29	7.56E-01	7.79E-01	3.35E+00
		228.14		10.60	-5.31E-01		9.59E-01
		277.60		14.00	-5.37E-01		7.79E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.83E+00	1.83E+00	1.24E-01	8.63E-01
	NA-22	1274.54		99.94	2.14E-01	2.14E-01	-1.76E-02	9.73E-02
	NA-24	1368.53		99.99	5.31E+13	1.08E+13	9.72E+11	2.34E+13
		2754.09		99.86	1.08E+13		0.00E+00	0.00E+00
	AL-26	1808.65		99.76	1.23E-01	1.23E-01	-2.19E-02	4.88E-02
+	K-40	1460.81	*	10.67	2.41E+00	2.41E+00	1.74E+01	1.11E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	8.48E-02	8.48E-02	-3.10E-02	4.16E-02
		78.34		96.00	1.15E-01		2.55E-01	5.64E-02
	SC-46	889.25		99.98	2.07E-01	2.07E-01	-5.67E-02	9.51E-02
		1120.51		99.99	3.21E-01		2.86E-01	1.50E-01
	V-48	983.52		99.98	6.93E-01	6.93E-01	1.44E-01	3.19E-01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
V-48	1312.10	97.50	7.57E-01	6.93E-01	3.19E-01	3.42E-01
CR-51	320.08	9.83	2.43E+00	2.43E+00	-1.02E+00	1.16E+00
MN-54	834.83	99.97	1.86E-01	1.86E-01	-1.15E-01	8.61E-02
CO-56	846.75	99.96	2.12E-01	2.12E-01	-8.59E-02	9.75E-02
	1037.75	14.03	1.87E+00		4.53E-01	8.63E-01
	1238.25	67.00	4.95E-01		3.14E-01	2.30E-01
	1771.40	15.51	1.16E+00		-3.04E-01	4.76E-01
	2598.48	16.90	1.01E+00		1.05E-02	3.80E-01
CO-57	122.06	85.51	1.08E-01	1.08E-01	-2.21E-02	5.27E-02
	136.48	10.60	9.19E-01		-2.89E-01	4.47E-01
CO-58	810.76	99.40	2.08E-01	2.08E-01	-1.08E-01	9.58E-02
FE-59	1099.22	56.50	4.94E-01	4.94E-01	-1.37E-01	2.24E-01
	1291.56	43.20	7.39E-01		8.00E-02	3.35E-01
CO-60	1173.22	100.00	2.06E-01	1.89E-01	-8.46E-03	9.40E-02
	1332.49	100.00	1.89E-01		4.58E-02	8.46E-02
ZN-65	1115.52	50.75	4.45E-01	4.45E-01	-1.64E-03	2.05E-01
GA-67	93.31	35.70	1.48E+02	1.48E+02	-5.74E+00	7.26E+01
	208.95	2.24	2.96E+03		5.76E+02	1.43E+03
	300.22	16.00	4.65E+02		9.61E+01	2.24E+02
SE-75	121.11	16.70	6.05E-01	1.84E-01	-4.58E-02	2.95E-01
	136.00	59.20	1.84E-01		-1.34E-02	8.95E-02
	264.65	59.80	2.07E-01		-4.58E-02	9.92E-02
	279.53	25.20	5.26E-01		-3.46E-02	2.53E-01
	400.65	11.40	1.20E+00		-7.80E-01	5.68E-01
RB-82	776.52	13.00	2.69E+00	2.69E+00	2.71E-01	1.25E+00
RB-83	520.41	46.00	3.04E-01	3.04E-01	-7.60E-02	1.41E-01
	529.64	30.30	5.31E-01		4.20E-02	2.49E-01
	552.65	16.40	1.03E+00		1.77E-01	4.82E-01
KR-85	513.99	0.43	3.94E+01	3.94E+01	-1.70E+00	1.88E+01
SR-85	513.99	99.27	2.36E-01	2.36E-01	-1.02E-02	1.13E-01
Y-88	898.02	93.40	2.22E-01	2.10E-01	-4.16E-02	1.02E-01
	1836.01	99.38	2.10E-01		1.05E-03	8.94E-02
NB-93M	16.57	9.43	4.43E-01	4.43E-01	8.45E-01	2.15E-01
NB-94	702.63	100.00	1.58E-01	1.58E-01	-7.57E-03	7.38E-02
	871.10	100.00	1.68E-01		4.31E-02	7.77E-02
NB-95	765.79	99.81	3.44E-01	3.44E-01	2.68E-01	1.62E-01
NB-95M	235.69	25.00	2.06E+02	2.06E+02	4.83E+00	1.01E+02
ZR-95	724.18	43.70	5.35E-01	3.92E-01	3.12E-01	2.50E-01
	756.72	55.30	3.92E-01		-1.17E-01	1.82E-01
MO-99	181.06	6.20	3.35E+03	2.33E+03	-1.13E+03	1.63E+03
	739.58	12.80	2.33E+03		7.19E+02	1.08E+03
	778.00	4.50	6.59E+03		-2.87E+03	3.04E+03
RU-103	497.08	89.00	2.43E-01	2.43E-01	-3.53E-02	1.14E-01
RU-106	621.84	9.80	1.61E+00	1.61E+00	1.08E-02	7.53E-01
AG-108M	433.93	89.90	1.37E-01	1.37E-01	-8.07E-02	6.48E-02
	614.37	90.40	1.85E-01		1.97E-02	8.72E-02
	722.95	90.50	1.79E-01		5.59E-02	8.33E-02
CD-109	88.03	3.72	2.71E+00	2.71E+00	2.72E+00	1.33E+00
AG-110M	657.75	93.14	1.60E-01	1.60E-01	-2.06E-03	7.43E-02
	677.61	10.53	1.37E+00		-2.06E-01	6.33E-01
	706.67	16.46	1.01E+00		-3.56E-01	4.71E-01
	763.93	21.98	9.19E-01		5.03E-01	4.31E-01
	884.67	71.63	2.41E-01		-3.41E-02	1.11E-01

Analysis Report for 1506114-10

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	1384.27		23.94	5.89E-01	1.60E-01	-5.48E-01	2.49E-01
	CD-113M	263.70		0.02	4.60E+02	4.60E+02	1.98E+01	2.21E+02
	SN-113	255.12		1.93	6.52E+00	2.27E-01	-3.31E+00	3.14E+00
		391.69		64.90	2.27E-01		1.26E-01	1.08E-01
	TE123M	159.00		84.10	1.38E-01	1.38E-01	2.58E-02	6.73E-02
	SB-124	602.71		97.87	2.02E-01	2.02E-01	5.04E-02	9.44E-02
		645.85		7.26	2.60E+00		1.81E-01	1.21E+00
		722.78		11.10	2.01E+00		2.46E-01	9.37E-01
		1691.02		49.00	3.07E-01		-5.11E-02	1.19E-01
	I-125	35.49		6.49	1.04E+00	1.04E+00	-5.35E-02	5.06E-01
	SB-125	176.33		6.89	1.44E+00	4.21E-01	-6.02E-01	6.97E-01
		427.89		29.33	4.21E-01		2.02E-02	1.99E-01
		463.38		10.35	1.27E+00		4.35E-01	6.01E-01
		600.56		17.80	7.82E-01		1.07E-01	3.65E-01
		635.90		11.32	1.27E+00		-6.29E-01	5.94E-01
	SB-126	414.70		83.30	8.25E-01	7.93E-01	3.37E-01	3.92E-01
		666.33		99.60	7.93E-01		1.02E-01	3.70E-01
		695.00		99.60	8.74E-01		4.83E-01	4.09E-01
		720.50		53.80	1.45E+00		-7.27E-01	6.71E-01
+	SN-126	87.57	*	37.00	2.95E-01	2.95E-01	2.74E-01	1.45E-01
	SB-127	473.00		25.00	1.16E+02	8.41E+01	6.15E+01	5.49E+01
		685.20		35.70	8.41E+01		7.36E-01	3.88E+01
		783.80		14.70	2.52E+02		9.12E+01	1.17E+02
	I-129	29.78		57.00	7.96E-02	7.96E-02	-2.44E-02	3.87E-02
		33.60		13.20	3.52E-01		4.87E-02	1.71E-01
		39.58		7.52	6.75E-01		-4.35E-01	3.29E-01
	I-131	284.30		6.05	2.43E+01	1.79E+00	7.69E+00	1.16E+01
		364.48		81.20	1.79E+00		2.65E-01	8.50E-01
		636.97		7.26	2.61E+01		-7.72E+00	1.22E+01
		722.89		1.80	1.18E+02		1.44E+01	5.47E+01
	TE-132	49.72		13.10	2.85E+02	6.95E+01	1.92E+02	1.39E+02
		228.16		88.00	6.95E+01		-3.85E+01	3.35E+01
	BA-133	81.00		33.00	3.10E-01	2.78E-01	-2.27E-01	1.52E-01
		302.84		17.80	6.72E-01		-3.64E-02	3.23E-01
		356.01		60.00	2.78E-01		5.59E-01	1.34E-01
	I-133	529.87		86.30	4.16E+09	4.16E+09	3.29E+08	1.95E+09
	CS-134	563.23		8.38	1.68E+00	1.93E-01	2.53E-01	7.86E-01
		569.32		15.43	9.03E-01		-2.44E-01	4.23E-01
		604.70		97.60	1.93E-01		2.46E-02	9.15E-02
		795.84		85.40	2.04E-01		2.63E-02	9.50E-02
		801.93		8.73	2.08E+00		3.68E-01	9.67E-01
	CS-135	268.24		16.00	7.21E-01	7.21E-01	-9.87E-03	3.47E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	6.25E+00	7.22E-01	5.50E-01	3.04E+00
		163.89		4.61	1.04E+01		1.39E+00	5.04E+00
		176.55		13.56	3.50E+00		-1.46E+00	1.69E+00
		273.65		12.66	4.65E+00		4.53E+00	2.24E+00
		340.57		48.50	1.42E+00		1.41E-01	6.82E-01
		818.50		99.70	7.22E-01		-5.63E-02	3.31E-01
		1048.07		79.60	1.08E+00		0.00E+00	4.93E-01
		1235.34		19.70	5.58E+00		-2.20E+00	2.57E+00

Analysis Report for 1506114-10

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-137	661.65		85.12	1.65E-01	1.65E-01	-2.91E-03	7.68E-02
	LA-138	788.74		34.00	4.99E-01	2.74E-01	1.37E-01	2.32E-01
		1435.80		66.00	2.74E-01		-1.28E-02	1.21E-01
	CE-139	165.85		80.35	1.43E-01	1.43E-01	4.50E-02	6.93E-02
	BA-140	162.64		6.70	7.47E+00	2.55E+00	2.04E+00	3.63E+00
		304.84		4.50	1.35E+01		1.20E+00	6.47E+00
		423.70		3.20	1.85E+01		-3.69E-01	8.74E+00
		437.55		2.00	3.31E+01		1.14E+01	1.57E+01
		537.32		25.00	2.55E+00		3.15E-02	1.19E+00
	LA-140	328.77		20.50	3.04E+00	8.79E-01	-2.84E-01	1.46E+00
		487.03		45.50	1.42E+00		2.98E-03	6.71E-01
		815.85		23.50	3.16E+00		-7.59E-01	1.45E+00
		1596.49		95.49	8.79E-01		-1.41E-01	3.78E-01
	CE-141	145.44		48.40	3.81E-01	3.81E-01	2.26E-01	1.86E-01
	CE-143	57.36		11.80	2.20E+06	1.29E+06	-1.71E+06	1.08E+06
		293.26		42.00	1.29E+06		1.15E+06	6.24E+05
		664.55		5.20	1.10E+07		3.38E+06	5.14E+06
	CE-144	133.54		10.80	9.22E-01	9.22E-01	7.77E-02	4.49E-01
	PM-144	476.78		42.00	3.21E-01	1.56E-01	-1.01E-02	1.52E-01
		618.01		98.60	1.56E-01		1.54E-02	7.30E-02
		696.49		99.49	1.70E-01		6.43E-02	7.97E-02
	PM-145	36.85		21.70	2.21E-01	1.23E-01	-1.32E-01	1.07E-01
		37.36		39.70	1.23E-01		-4.46E-02	5.98E-02
		42.30		15.10	3.68E-01		1.61E-01	1.80E-01
		72.40		2.31	4.53E+00		7.03E+00	2.23E+00
	PM-146	453.90		39.94	3.07E-01	3.07E-01	-1.13E-01	1.45E-01
		735.90		14.01	1.10E+00		2.30E-01	5.09E-01
		747.13		13.10	1.20E+00		7.07E-02	5.57E-01
	ND-147	91.11		28.90	2.26E+00	2.26E+00	1.76E+00	1.11E+00
		531.02		13.10	6.46E+00		-1.74E-01	3.03E+00
	PM-149	285.90		3.10	4.46E+04	4.46E+04	5.95E+02	2.14E+04
	EU-152	121.78		20.50	4.19E-01	4.19E-01	-8.56E-02	2.04E-01
		244.69		5.40	2.40E+00		1.33E-01	1.16E+00
		344.27		19.13	6.22E-01		1.29E-02	2.97E-01
		778.89		9.20	1.65E+00		-7.17E-01	7.61E-01
		964.01		10.40	2.12E+00		7.02E-01	9.92E-01
		1085.78		7.22	2.78E+00		1.06E+00	1.28E+00
		1112.02		9.60	1.85E+00		-4.15E-01	8.38E-01
		1407.95		14.94	9.56E-01		-1.52E-01	4.09E-01
	GD-153	97.43		31.30	2.80E-01	2.80E-01	-3.30E-01	1.36E-01
		103.18		22.20	4.03E-01		2.84E-01	1.97E-01
	EU-154	123.07		40.50	2.15E-01	2.15E-01	-3.48E-02	1.05E-01
		723.30		19.70	8.26E-01		2.58E-01	3.85E-01
		873.19		11.50	1.53E+00		4.23E-01	7.10E-01
		996.32		10.30	1.70E+00		-3.88E-01	7.79E-01
		1004.76		17.90	9.88E-01		2.93E-01	4.52E-01
		1274.45		35.50	5.92E-01		-4.89E-02	2.70E-01
+	EU-155	86.50	*	30.90	3.58E-01	3.58E-01	3.32E-01	1.76E-01
		105.30		20.70	3.95E-01		-8.71E-02	1.93E-01
	EU-156	811.77		10.40	5.80E+00	5.80E+00	-1.54E+00	2.67E+00
		1153.47		7.20	1.16E+01		5.34E+00	5.33E+00
		1230.71		8.90	9.76E+00		-2.33E+00	4.48E+00
	HO-166M	184.41		72.60	1.55E-01	1.55E-01	1.26E-01	7.54E-02

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	280.45		29.60	3.75E-01	1.55E-01	-3.61E-02	1.80E-01
		410.94		11.10	1.24E+00		1.01E+00	5.92E-01
		711.69		54.10	2.81E-01		1.10E-02	1.31E-01
	TM-171	66.72		0.14	5.90E+01	5.90E+01	1.41E+01	2.89E+01
	HF-172	81.75		4.52	2.18E+00	8.26E-01	-6.33E+00	1.07E+00
		125.81		11.30	8.26E-01		1.87E-02	4.03E-01
	LU-172	181.53		20.60	1.19E+01	6.78E+00	5.73E+00	5.79E+00
		810.06		16.63	2.08E+01		-1.08E+01	9.59E+00
		912.12		15.25	3.49E+01		3.40E+01	1.64E+01
		1093.66		62.50	6.78E+00		1.77E+00	3.10E+00
	LU-173	100.72		5.24	1.58E+00	5.71E-01	-6.61E-01	7.72E-01
		272.11		21.20	5.71E-01		8.81E-02	2.75E-01
	HF-175	343.40		84.00	1.99E-01	1.99E-01	3.95E-03	9.54E-02
	LU-176	88.34		13.30	7.33E-01	1.21E-01	2.61E-01	3.60E-01
		201.83		86.00	1.29E-01		-1.01E-02	6.27E-02
		306.78		94.00	1.21E-01		-3.92E-02	5.79E-02
	TA-182	67.75		41.20	2.33E-01	2.33E-01	-8.51E-02	1.14E-01
		1121.30		34.90	8.43E-01		4.42E-01	3.93E-01
		1189.05		16.23	1.64E+00		2.83E-01	7.56E-01
		1221.41		26.98	9.28E-01		-1.18E-01	4.24E-01
		1231.02		11.44	2.31E+00		-5.51E-01	1.06E+00
	IR-192	308.46		29.68	5.05E-01	3.18E-01	-2.48E-01	2.42E-01
		468.07		48.10	3.18E-01		-3.14E-02	1.49E-01
	HG-203	279.19		77.30	2.25E-01	2.25E-01	-1.48E-02	1.08E-01
	BI-207	569.67		97.72	1.39E-01	1.39E-01	-3.75E-02	6.51E-02
		1063.62		74.90	2.39E-01		-4.83E-02	1.09E-01
+	TL-208	583.14	*	30.22	6.16E-01	6.16E-01	1.31E+00	2.93E-01
		860.37	*	4.48	4.80E+00		4.68E+00	2.25E+00
		2614.66		35.85	9.79E-01		0.00E+00	4.43E-01
	BI-210M	262.00		45.00	2.38E-01	2.38E-01	1.14E-01	1.14E-01
		300.00		23.00	5.89E-01		1.41E-01	2.84E-01
	PB-210	46.50		4.25	1.38E+00	1.38E+00	5.21E-02	6.75E-01
	PB-211	404.84		2.90	4.47E+00	4.47E+00	1.55E+00	2.13E+00
		831.96		2.90	6.35E+00		2.19E+00	2.96E+00
	BI-212	727.17		11.80	1.40E+00	1.40E+00	4.14E-01	6.52E-01
		1620.62		2.75	6.62E+00		1.73E-01	2.89E+00
+	PB-212	238.63	*	44.60	3.90E-01	3.90E-01	1.29E+00	1.91E-01
		300.09		3.41	3.97E+00		9.49E-01	1.92E+00
+	BI-214	609.31	*	46.30	4.54E-01	4.54E-01	9.78E-01	2.17E-01
		1120.29	*	15.10	1.81E+00		1.22E+00	8.50E-01
		1764.49	*	15.80	1.38E+00		1.11E+00	6.12E-01
		2204.22		4.98	4.79E+00		2.26E+00	2.10E+00
+	PB-214	295.21	*	19.19	7.24E-01	4.31E-01	1.08E+00	3.50E-01
		351.92	*	37.19	4.31E-01		1.30E+00	2.08E-01
	RN-219	401.80		6.50	1.79E+00	1.79E+00	-7.47E-01	8.47E-01
	RA-223	323.87		3.88	3.03E+00	3.03E+00	6.52E-01	1.45E+00
	RA-224	240.98		3.95	4.38E+00	4.38E+00	1.52E+01	2.14E+00
	RA-225	40.00		31.00	6.73E-01	6.73E-01	-4.34E-01	3.28E-01
	RA-226	186.21		3.28	3.42E+00	3.42E+00	2.27E+00	1.66E+00
	TH-227	50.10		8.40	7.38E-01	7.38E-01	4.97E-01	3.61E-01
		236.00		11.50	1.39E+00		3.25E-02	6.77E-01
		256.20		6.30	1.67E+00		9.80E-02	8.03E-01
	AC-228	338.32		11.40	1.20E+00	8.56E-01	6.70E-01	5.76E-01

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	911.07		27.70	8.56E-01	8.56E-01	8.52E-01	4.03E-01
		969.11		16.60	1.31E+00		3.25E-01	6.13E-01
	TH-230	48.44		16.90	3.58E-01	3.58E-01	1.84E-01	1.75E-01
		62.85		4.60	1.67E+00		1.36E+00	8.18E-01
		67.67		0.37	2.16E+01		-7.89E+00	1.06E+01
	PA-231	283.67		1.60	6.84E+00	5.17E+00	1.45E+00	3.28E+00
		302.67		2.30	5.17E+00		-2.80E-01	2.48E+00
	TH-231	25.64		14.70	3.19E-01	3.19E-01	-8.15E-02	1.56E-01
		84.21		6.40	1.41E+00		-5.35E+00	6.89E-01
	PA-233	311.98		38.60	6.61E-01	6.61E-01	2.72E-01	3.17E-01
	PA-234	131.20		20.40	4.50E-01	4.50E-01	-6.94E-02	2.19E-01
		733.99		8.80	1.69E+00		-2.56E-01	7.85E-01
		946.00		12.00	1.46E+00		1.91E-01	6.72E-01
	PA-234M	1001.03		0.92	1.90E+01	1.90E+01	5.44E+00	8.71E+00
	TH-234	63.29		3.80	2.05E+00	2.05E+00	1.47E+00	1.01E+00
	U-235	143.76		10.50	9.19E-01	9.19E-01	3.07E-01	4.47E-01
		163.35		4.70	2.08E+00		2.79E-01	1.01E+00
		205.31		4.70	2.34E+00		-4.21E-01	1.14E+00
+	NP-237	86.50	*	12.60	8.67E-01	8.67E-01	8.04E-01	4.27E-01
	NP-239	106.10		22.70	2.52E+03	2.52E+03	-5.55E+02	1.23E+03
		228.18		10.70	6.82E+03		-1.36E+03	3.29E+03
		277.60		14.10	5.43E+03		-3.74E+03	2.61E+03
	AM-241	59.54		35.90	2.01E-01	2.01E-01	4.70E-02	9.86E-02
	AM-243	74.67		66.00	1.72E-01	1.72E-01	7.35E-01	8.47E-02
	CM-243	209.75		3.29	3.35E+00	7.79E-01	7.56E-01	1.63E+00
		228.14		10.60	9.59E-01		-5.31E-01	4.62E-01
		277.60		14.00	7.79E-01		-5.37E-01	3.74E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-10

FEEBRIS1D-02.036-037

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-02.036-037

Elapsed Live time: 3600
Elapsed Real Time: 3607

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	23	88
17:	89	66	79	60	69	62	68	56
25:	71	36	55	40	48	49	56	54
33:	43	49	59	34	60	46	64	48
41:	68	57	64	58	97	73	70	55
49:	71	61	66	79	72	62	56	76
57:	84	70	77	75	105	131	91	83
65:	106	87	90	88	79	97	112	122
73:	156	224	207	257	208	155	89	86
81:	65	80	97	93	107	105	119	114
89:	101	87	98	113	102	66	48	46
97:	55	73	62	55	52	65	54	65
105:	63	55	52	55	53	54	52	65
113:	48	48	59	48	49	39	58	52
121:	50	62	60	52	51	53	59	61
129:	60	68	56	40	47	48	57	49
137:	62	49	54	41	57	59	49	63
145:	51	47	54	44	49	43	45	44
153:	51	61	40	36	53	44	46	42
161:	50	46	41	50	37	49	39	48
169:	37	41	43	31	39	38	37	41
177:	34	46	36	46	42	38	55	58
185:	66	63	40	30	47	32	42	42
193:	35	45	41	52	45	52	33	46
201:	37	38	47	32	37	35	31	49
209:	43	38	41	35	28	30	38	29
217:	35	22	31	24	45	25	26	32
225:	21	21	25	31	24	31	34	38
233:	29	30	27	47	117	140	123	63
241:	69	54	29	26	27	27	24	36
249:	26	30	26	28	22	23	24	15
257:	23	24	28	27	27	16	17	22
265:	29	15	23	20	27	38	36	28
273:	23	17	23	31	29	21	24	15
281:	15	19	28	20	21	30	20	24
289:	17	18	22	28	32	59	70	31
297:	22	22	23	31	30	20	20	24
305:	14	18	29	12	24	18	20	16
313:	17	33	18	18	14	19	14	12
321:	18	24	24	20	20	19	22	24
329:	15	16	20	25	20	12	17	19
337:	32	48	32	27	10	20	17	23
345:	14	15	15	15	13	49	81	84
353:	43	16	18	16	18	8	9	9
361:	11	12	22	7	13	14	11	17

369:	13	15	9	14	13	15	4	16

Sample Title: FEEBRIS1D-02.036-037

Channel								
377:	8	14	12	14	15	12	19	14
385:	14	13	18	13	14	17	10	18
393:	16	9	15	13	7	7	10	23
401:	16	12	11	9	15	16	22	12
409:	16	16	18	19	18	13	8	17
417:	8	9	10	10	5	12	10	9
425:	13	14	15	13	9	10	12	17
433:	13	10	11	12	12	15	17	16
441:	10	9	8	10	13	12	10	14
449:	13	15	9	10	9	10	5	15
457:	8	13	13	12	13	21	10	11
465:	8	7	7	9	9	9	11	8
473:	12	16	14	10	11	6	9	8
481:	10	8	10	4	12	14	10	9
489:	11	11	7	16	9	9	7	9
497:	9	9	9	13	12	8	9	11
505:	10	4	12	16	25	27	33	30
513:	7	8	6	8	4	8	7	7
521:	6	6	5	6	6	9	8	8
529:	7	9	14	7	6	6	9	14
537:	8	7	9	4	7	5	6	7
545:	4	7	6	7	4	7	8	12
553:	5	12	12	8	9	11	8	8
561:	10	8	11	11	6	6	9	8
569:	5	7	9	14	10	9	12	6
577:	7	11	8	9	18	42	37	29
585:	9	9	7	4	6	6	8	9
593:	5	7	7	6	4	5	10	11
601:	4	14	5	8	10	3	17	51
609:	57	36	6	6	8	8	5	9
617:	14	6	10	6	9	5	7	8
625:	10	9	6	12	10	7	6	8
633:	6	8	7	6	9	9	5	6
641:	5	16	6	4	5	6	4	4
649:	5	4	8	4	9	1	11	6
657:	5	3	7	11	3	9	4	8
665:	8	7	7	7	7	6	6	3
673:	9	6	7	2	6	7	3	7
681:	2	7	4	9	4	9	4	5
689:	4	3	6	6	6	5	8	11
697:	11	7	11	4	7	9	6	6
705:	12	4	6	4	7	7	12	7
713:	8	4	4	5	4	8	3	8
721:	4	8	4	8	7	12	11	9
729:	5	4	7	6	5	6	8	6
737:	7	4	6	3	6	5	9	4
745:	3	5	7	13	6	5	4	6
753:	9	6	6	5	7	6	5	5
761:	13	8	6	13	6	9	9	9
769:	8	4	6	5	6	6	6	7
777:	5	4	3	9	3	5	6	11
785:	7	8	5	3	7	3	4	12
793:	9	9	5	7	7	4	2	6

801:	6	9	10	10	9	7	7	5

Sample Title: FEEBRIS1D-02.036-037

Channel								
809:	9	3	6	3	5	1	6	5
817:	6	2	6	3	6	6	4	6
825:	5	3	6	5	12	6	6	6
833:	6	9	2	12	7	2	10	15
841:	4	5	6	3	8	5	6	8
849:	3	3	4	6	4	3	3	2
857:	6	12	6	11	15	4	4	6
865:	3	8	3	3	4	5	2	8
873:	7	10	6	3	7	3	10	1
881:	5	4	8	6	2	8	3	4
889:	4	3	4	5	9	4	7	5
897:	3	5	2	5	8	7	6	6
905:	5	7	4	7	9	16	16	17
913:	12	3	7	3	4	5	5	7
921:	2	3	4	4	8	6	5	5
929:	3	6	2	5	5	8	3	10
937:	2	9	6	4	1	4	7	3
945:	3	4	8	7	6	2	8	3
953:	4	6	2	6	5	5	1	8
961:	0	7	10	12	6	5	7	14
969:	13	10	3	6	3	5	4	3
977:	5	2	7	6	5	1	6	2
985:	9	3	8	4	8	4	4	8
993:	4	4	2	6	4	2	2	7
1001:	4	5	6	3	6	1	3	4
1009:	5	3	3	1	6	3	6	8
1017:	2	8	3	2	7	2	5	0
1025:	4	6	6	4	5	5	3	6
1033:	5	2	7	4	5	8	5	8
1041:	5	5	2	6	4	5	3	7
1049:	2	3	4	2	4	5	3	6
1057:	2	4	2	4	3	6	5	3
1065:	2	6	5	7	2	7	2	3
1073:	10	5	5	4	2	5	6	2
1081:	3	9	5	6	2	4	4	3
1089:	3	8	3	4	3	2	2	4
1097:	9	3	4	2	4	4	0	6
1105:	6	4	2	3	4	2	2	5
1113:	1	8	4	3	8	6	8	14
1121:	13	4	9	2	0	4	4	6
1129:	5	4	4	8	4	3	3	6
1137:	3	4	2	6	4	5	4	11
1145:	4	3	6	1	2	3	7	3
1153:	7	4	5	5	8	1	3	5
1161:	4	2	5	3	3	3	3	4
1169:	5	8	2	4	3	4	3	4
1177:	6	9	5	2	4	4	2	4
1185:	8	5	4	3	4	5	6	5
1193:	6	7	4	5	2	5	6	6
1201:	6	6	5	8	5	6	6	1
1209:	1	2	2	7	9	3	3	8
1217:	6	2	4	2	7	4	5	3
1225:	5	4	7	3	9	2	3	4

1233:	4	3	7	5	8	7	3	8

Sample Title: FEEBRIS1D-02.036-037

Channel								
1241:	10	6	3	4	4	6	6	3
1249:	3	5	5	1	6	2	3	4
1257:	6	3	3	3	1	6	5	4
1265:	4	6	5	4	3	5	2	6
1273:	1	4	5	5	3	4	2	7
1281:	8	6	5	1	1	3	3	4
1289:	3	2	4	4	3	5	3	6
1297:	3	4	1	4	1	4	2	3
1305:	3	4	1	5	4	4	3	6
1313:	3	2	2	1	2	2	1	1
1321:	1	2	1	1	3	2	0	2
1329:	4	7	3	0	3	0	4	2
1337:	2	4	1	2	0	1	3	4
1345:	1	1	3	3	2	2	1	2
1353:	3	0	2	2	0	4	3	1
1361:	1	1	3	5	0	1	2	3
1369:	2	3	3	0	2	2	3	1
1377:	6	5	0	1	2	1	1	0
1385:	2	1	0	2	2	2	3	1
1393:	1	2	2	0	1	0	0	3
1401:	2	1	3	1	6	1	1	1
1409:	1	0	1	0	1	4	1	4
1417:	1	0	6	0	2	1	1	0
1425:	2	1	0	2	1	2	1	1
1433:	1	1	3	5	3	2	2	2
1441:	4	3	3	0	3	6	1	3
1449:	3	2	3	1	0	2	0	1
1457:	4	10	40	84	67	35	13	2
1465:	1	2	3	1	2	2	2	1
1473:	4	2	1	1	3	0	1	0
1481:	0	0	2	1	3	2	0	0
1489:	0	1	1	0	1	1	1	0
1497:	3	2	1	0	0	3	0	2
1505:	1	1	2	2	0	2	2	3
1513:	2	2	0	2	1	1	1	0
1521:	6	2	1	1	2	0	0	1
1529:	2	1	0	0	3	1	1	0
1537:	0	0	2	0	0	1	1	1
1545:	1	0	0	0	1	2	0	1
1553:	2	1	1	0	1	3	2	1
1561:	2	1	1	0	2	1	1	3
1569:	2	0	1	0	0	0	1	0
1577:	0	1	2	1	1	1	1	2
1585:	3	1	5	5	3	4	0	2
1593:	1	2	2	2	2	2	1	0
1601:	1	0	5	0	0	2	1	2
1609:	0	2	4	0	0	1	0	1
1617:	0	1	1	2	4	1	1	1
1625:	5	1	2	0	1	2	4	1
1633:	0	1	0	0	1	3	0	1
1641:	0	1	1	1	0	0	2	1
1649:	1	0	1	2	0	1	1	2
1657:	1	0	1	0	3	0	2	0

1665:	2	0	1	0	1	0	0	0

Sample Title: FEEBRIS1D-02.036-037

Channel								
1673:	2	0	0	1	0	3	1	0
1681:	0	1	3	2	0	0	0	1
1689:	1	0	0	1	0	1	0	1
1697:	1	0	0	0	0	0	0	0
1705:	0	0	1	1	1	1	1	0
1713:	0	1	0	1	0	0	0	3
1721:	0	0	0	0	1	2	0	1
1729:	3	2	1	0	1	0	0	0
1737:	0	1	1	1	0	0	1	0
1745:	0	4	0	0	0	0	0	0
1753:	0	0	2	0	0	1	0	1
1761:	0	3	1	9	9	5	0	1
1769:	1	2	0	0	1	1	0	1
1777:	0	0	4	0	0	0	0	0
1785:	0	2	1	0	0	0	0	1
1793:	0	0	2	1	0	1	2	0
1801:	1	0	1	0	0	0	1	1
1809:	0	1	1	0	0	1	1	0
1817:	1	0	1	0	0	2	0	1
1825:	0	3	1	0	1	3	1	1
1833:	1	0	1	1	1	1	2	2
1841:	0	2	0	0	1	0	2	1
1849:	1	0	0	0	2	0	0	0
1857:	0	2	1	2	0	0	1	1
1865:	0	2	0	1	0	1	1	1
1873:	0	1	0	0	1	1	1	0
1881:	1	1	0	1	0	1	0	2
1889:	0	2	0	0	0	1	1	1
1897:	0	0	1	0	0	1	0	0
1905:	2	0	0	0	0	0	0	0
1913:	1	0	1	0	1	1	0	0
1921:	1	0	0	2	0	1	0	0
1929:	1	2	0	0	2	0	0	0
1937:	0	1	0	3	0	2	1	2
1945:	1	1	1	1	1	0	1	1
1953:	0	1	0	0	0	0	0	0
1961:	1	0	1	0	0	0	0	0
1969:	0	2	0	0	0	1	1	1
1977:	1	0	0	2	1	0	1	0
1985:	0	3	0	2	2	0	0	0
1993:	0	0	1	0	2	2	0	1
2001:	1	0	0	0	0	0	0	0
2009:	0	2	0	0	0	1	0	0
2017:	1	1	0	1	0	1	2	1
2025:	0	2	0	0	0	0	0	0
2033:	0	1	0	0	0	1	1	0
2041:	0	0	0	0	0	0	0	0
2049:	1	0	1	2	1	0	1	0
2057:	0	0	0	0	0	0	2	1
2065:	0	0	0	1	1	0	0	1
2073:	0	1	0	0	1	1	0	0
2081:	0	0	2	0	2	1	0	1
2089:	0	0	0	1	1	2	1	1

2097:	0	1	1	0	2	1	3	1

Sample Title: FEEBRIS1D-02.036-037

Channel								
2105:	0	1	0	0	0	1	1	0
2113:	1	0	0	0	1	0	1	2
2121:	1	1	0	0	1	0	0	0
2129:	0	1	3	0	0	0	0	2
2137:	0	1	1	2	1	0	1	1
2145:	0	0	0	1	0	0	1	0
2153:	0	1	0	0	0	0	2	1
2161:	1	0	0	1	1	1	0	0
2169:	0	1	1	0	0	0	0	1
2177:	0	0	0	0	0	0	0	0
2185:	3	0	1	2	0	0	0	1
2193:	0	0	2	1	0	3	0	0
2201:	2	3	2	2	4	0	1	0
2209:	2	1	0	0	1	0	1	1
2217:	1	0	0	1	0	1	1	2
2225:	1	0	0	1	2	0	0	1
2233:	0	1	1	0	0	0	0	1
2241:	2	1	2	0	1	0	2	1
2249:	3	0	0	0	0	0	1	0
2257:	1	1	0	0	0	1	0	0
2265:	0	1	0	0	0	1	2	1
2273:	0	2	0	1	0	1	0	1
2281:	0	2	0	0	0	0	2	0
2289:	1	1	0	1	0	1	0	0
2297:	1	0	1	0	1	1	2	0
2305:	1	1	0	1	0	2	0	1
2313:	1	1	0	0	1	1	0	0
2321:	0	0	0	2	0	0	1	0
2329:	1	1	0	0	0	1	1	0
2337:	0	1	0	1	0	0	1	0
2345:	0	1	1	0	0	0	0	1
2353:	2	0	0	2	1	0	0	1
2361:	0	1	0	0	1	2	1	1
2369:	1	0	0	1	0	1	0	1
2377:	0	0	1	0	1	0	0	2
2385:	0	0	0	1	2	0	0	0
2393:	0	0	0	1	0	1	3	0
2401:	1	0	0	2	2	0	0	0
2409:	0	1	0	0	1	0	1	1
2417:	2	1	1	0	0	1	0	0
2425:	0	2	0	0	0	1	2	2
2433:	0	0	1	3	1	0	0	0
2441:	1	0	1	0	1	0	0	0
2449:	1	0	0	1	0	0	0	0
2457:	1	1	0	3	0	0	1	0
2465:	1	0	0	2	0	3	1	1
2473:	0	0	0	1	0	0	0	0
2481:	1	0	0	0	0	0	0	0
2489:	0	0	0	0	0	1	0	0
2497:	1	0	0	0	1	0	0	0
2505:	1	0	0	1	0	0	0	0
2513:	0	0	0	0	0	0	0	0
2521:	1	0	0	0	2	1	0	0

2529:	0	0	0	0	0	0	0	1

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Channel								
2537:	0	1	1	1	0	0	0	1
2545:	0	1	0	0	0	0	1	0
2553:	0	0	0	0	0	0	0	1
2561:	0	1	0	1	0	0	0	0
2569:	0	1	1	0	0	0	0	0
2577:	0	0	1	0	0	1	1	0
2585:	0	0	0	1	1	0	0	0
2593:	0	1	1	0	0	0	0	1
2601:	0	0	0	0	0	1	0	0
2609:	0	0	1	2	4	9	10	4
2617:	1	0	0	0	0	0	0	1
2625:	0	0	0	0	0	0	0	0
2633:	0	0	0	0	2	0	0	0
2641:	0	0	0	0	1	0	0	0
2649:	0	0	0	0	1	0	0	0
2657:	0	0	0	0	0	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	1	1	0	0	0	0	0	1
2689:	0	0	0	0	0	0	0	0
2697:	0	0	0	0	0	1	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	1	0	0	0	0
2729:	0	0	1	0	1	0	0	0
2737:	0	0	1	0	0	0	1	0
2745:	0	0	0	0	1	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	1	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	0	0	0	1
2785:	0	1	1	0	0	0	0	0
2793:	0	0	1	0	0	0	1	0
2801:	0	0	0	0	1	0	0	0
2809:	0	0	0	0	0	2	0	0
2817:	0	0	1	0	0	0	0	1
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	1
2841:	0	1	0	0	0	0	0	0
2849:	0	0	0	0	0	0	1	0
2857:	0	0	0	0	1	0	0	0
2865:	0	0	1	0	2	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	1	0	0	0	1	0	0	0
2889:	0	0	0	0	0	0	1	0
2897:	0	1	0	1	0	0	0	0
2905:	0	0	1	0	0	0	0	0
2913:	0	0	0	1	0	0	1	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	1	0	0	0	0	1	0
2945:	0	0	1	0	0	1	0	0
2953:	0	0	0	0	0	0	0	1

2961:	0	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-02.036-037

Channel								
2969:	0	0	0	0	0	1	0	0
2977:	0	0	2	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	1	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	1	1	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	1
3033:	1	1	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	1	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	1	1	0	1	0	0	0	0
3097:	0	0	0	0	0	1	0	0
3105:	0	0	0	0	0	0	1	0
3113:	0	0	0	0	0	2	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	1	0	0	0
3137:	0	0	1	0	0	0	0	0
3145:	1	0	0	0	0	0	0	0
3153:	0	0	0	0	1	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	1	0	1	0	0	0
3217:	2	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	1
3273:	0	0	1	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	1	0	0	0
3297:	0	0	0	0	0	0	0	1
3305:	0	0	1	0	0	0	0	1
3313:	0	0	0	1	0	1	0	0
3321:	0	0	0	1	0	0	0	0
3329:	0	0	0	1	0	0	0	1
3337:	0	0	0	0	0	0	0	0
3345:	1	0	1	0	0	0	0	1
3353:	0	0	0	0	0	0	0	0
3361:	2	0	0	0	0	0	0	0
3369:	0	1	0	0	0	1	0	0
3377:	1	0	1	0	0	0	0	0
3385:	0	0	1	0	1	0	0	0

3393:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-02.036-037

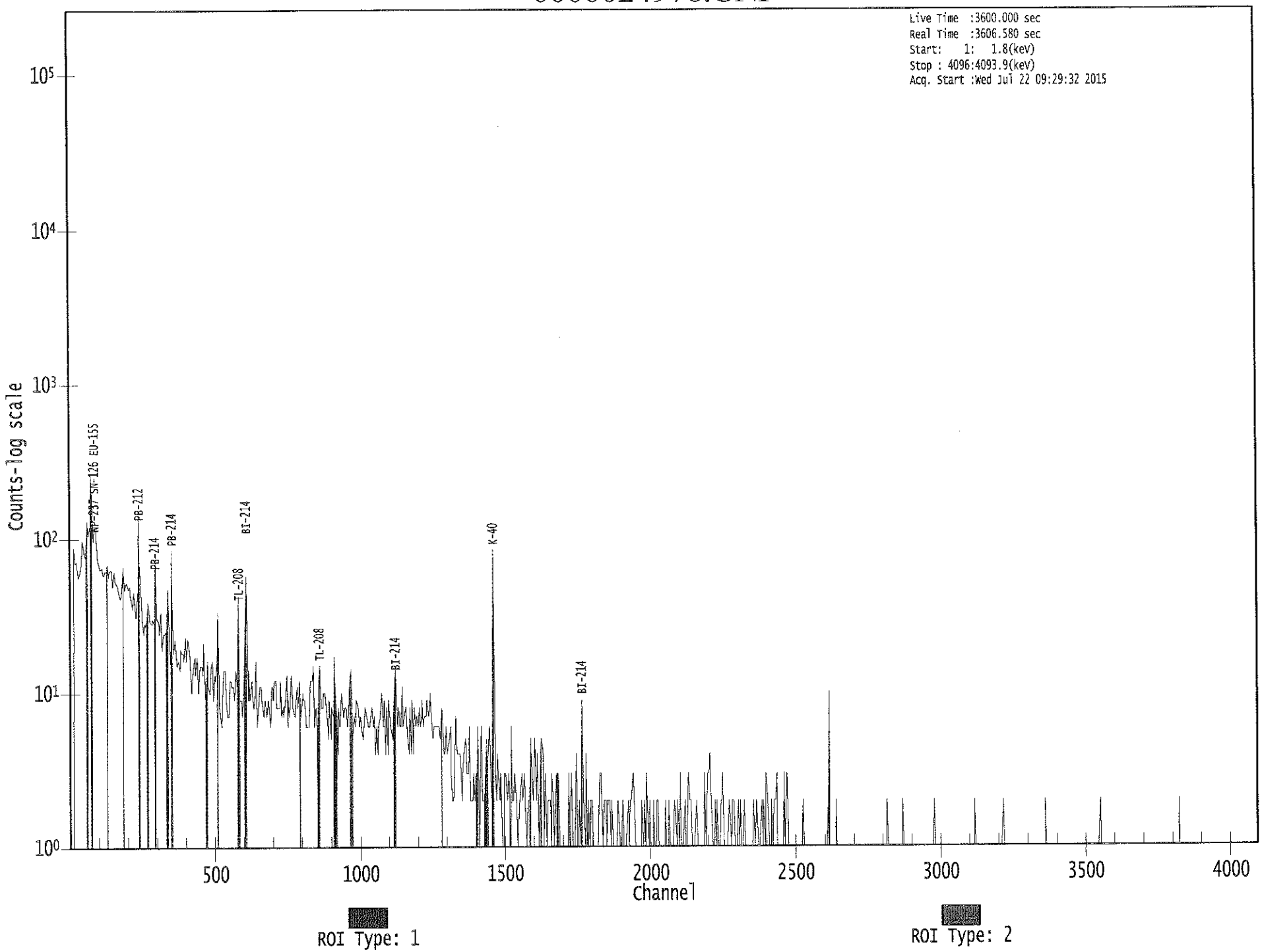
Channel								
3401:	0	0	0	0	0	1	0	0
3409:	0	0	0	0	0	0	1	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	1
3441:	1	0	0	0	0	0	0	0
3449:	1	0	0	1	1	0	0	0
3457:	0	1	0	0	0	0	0	0
3465:	0	0	1	0	0	0	1	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	1	0	0	0	0	1	2	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	1	0	0
3569:	0	0	0	1	1	0	0	0
3577:	0	0	0	1	0	0	0	0
3585:	0	0	0	0	0	0	1	0
3593:	0	0	0	0	0	0	1	0
3601:	0	0	0	0	0	0	1	0
3609:	0	0	1	0	0	1	0	1
3617:	0	0	0	0	0	0	0	0
3625:	0	1	1	0	0	0	0	0
3633:	0	0	0	0	0	1	0	0
3641:	0	0	0	1	0	0	1	0
3649:	0	0	0	0	1	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	1	0	0	0	0	0
3681:	0	0	0	1	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	1	0	0
3721:	0	0	0	0	0	1	0	0
3729:	0	0	0	0	0	1	0	1
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	1	0	0	0	1	0
3785:	0	0	1	0	1	0	0	0
3793:	1	1	0	0	0	0	1	0
3801:	0	0	0	0	0	1	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	2	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-02.036-037

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	1	0	0
3849:	0	0	0	0	0	1	0	1
3857:	0	0	0	0	0	0	0	1
3865:	0	0	0	1	1	0	0	0
3873:	0	0	1	0	0	0	0	0
3881:	0	0	0	0	0	1	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	1	1	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	1	0
3937:	0	0	0	0	0	0	1	0
3945:	0	0	0	0	0	1	0	1
3953:	1	0	0	0	0	0	0	0
3961:	1	0	0	0	0	0	0	0
3969:	0	0	0	1	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	1	0	1	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	1	0	0
4025:	0	0	0	0	1	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	1	0	1
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	1	0	0	0	0	0
4081:	0	1	0	0	0	0	0	0
4089:	0	1	0	0	0	0	0	0

0000024978.CNF



Apex-Gamma

Analysis Report for 1506114-11
FEEBRIS1D-18.013-014

7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-11
Sample Description	: FEEBRIS1D-18.013-014
Sample Type	: SOIL
Sample Size	: 3.462E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:40:44AM
Acquisition Started	: 7/22/2015 10:29:49AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24981

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

: 80745

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 11:29:53AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	43.77	44.13	0.0000	0.00
2	53.77	54.12	0.0000	0.00
3	68.22	68.56	0.0000	0.00
4	74.78	75.12	0.0000	0.00
5	77.49	77.83	0.0000	0.00
6	92.92	93.26	0.0000	0.00
7	119.79	120.11	0.0000	0.00
8	154.19	154.50	0.0000	0.00
9	185.71	186.02	0.0000	0.00
10	238.56	238.85	0.0000	0.00
11	241.75	242.03	0.0000	0.00
12	295.31	295.57	0.0000	0.00
13	332.34	332.59	0.0000	0.00
14	339.78	340.04	0.0000	0.00
15	351.97	352.22	0.0000	0.00
16	462.90	463.11	0.0000	0.00
17	467.82	468.03	0.0000	0.00
18	536.59	536.78	0.0000	0.00
19	582.65	582.82	0.0000	0.00
20	585.83	586.00	0.0000	0.00
21	609.51	609.67	0.0000	0.00
22	728.22	728.34	0.0000	0.00
23	751.65	751.76	0.0000	0.00
24	768.15	768.26	0.0000	0.00
25	861.51	861.58	0.0000	0.00
26	911.34	911.39	0.0000	0.00
27	969.84	969.87	0.0000	0.00
28	1004.58	1004.60	0.0000	0.00
29	1045.71	1045.72	0.0000	0.00
30	1056.00	1056.00	0.0000	0.00
31	1069.28	1069.28	0.0000	0.00
32	1120.71	1120.69	0.0000	0.00
33	1238.11	1238.05	0.0000	0.00
34	1255.01	1254.94	0.0000	0.00
35	1460.91	1460.77	0.0000	0.00
36	1567.70	1567.52	0.0000	0.00
37	1591.92	1591.73	0.0000	0.00
38	1764.45	1764.19	0.0000	0.00
39	1770.94	1770.69	0.0000	0.00
40	1933.25	1932.93	0.0000	0.00
41	2068.57	2068.20	0.0000	0.00
42	2445.95	2445.43	0.0000	0.00

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:29:53AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	43.77	43 -	51	44.13	2.10E+01	19.57	1.09E+02	1.39
	2	53.77	52 -	57	54.12	3.94E+01	41.83	3.19E+02	1.76
M	3	68.22	67 -	81	68.56	3.77E+01	32.89	2.61E+02	1.75
m	4	74.78	67 -	81	75.12	1.09E+02	49.74	4.22E+02	1.77
m	5	77.49	67 -	81	77.83	1.67E+02	54.42	4.11E+02	1.77
	6	92.92	90 -	97	93.26	2.19E+02	70.85	6.65E+02	1.42
	7	119.79	118 -	123	120.11	3.96E+01	36.82	2.39E+02	3.46
	8	154.19	152 -	158	154.50	4.16E+01	39.88	2.53E+02	3.18
	9	185.71	182 -	190	186.02	1.57E+02	54.26	3.58E+02	1.47
M	10	238.56	235 -	248	238.85	1.80E+02	36.40	1.43E+02	1.68
m	11	241.75	235 -	248	242.03	5.88E+01	33.24	1.16E+02	1.68
	12	295.31	291 -	299	295.57	1.39E+02	44.27	2.17E+02	1.42
	13	332.34	330 -	335	332.59	2.20E+01	22.54	8.40E+01	2.02
	14	339.78	336 -	344	340.04	6.26E+01	31.28	1.11E+02	1.61
	15	351.97	348 -	356	352.22	2.22E+02	43.73	1.59E+02	1.74
M	16	462.90	460 -	471	463.11	2.13E+01	19.82	6.15E+01	1.88
m	17	467.82	460 -	471	468.03	2.08E+01	19.72	6.44E+01	1.88
	18	536.59	533 -	542	536.78	1.74E+01	22.18	6.12E+01	5.63
M	19	582.65	578 -	600	582.82	4.87E+01	19.87	3.65E+01	1.96
m	20	585.83	578 -	600	586.00	1.40E+01	18.13	2.71E+01	1.78
	21	609.51	606 -	613	609.67	1.69E+02	34.29	8.20E+01	1.88
	22	728.22	726 -	732	728.34	2.42E+01	18.30	4.55E+01	2.68
	23	751.65	749 -	754	751.76	1.44E+01	12.77	2.13E+01	2.67
	24	768.15	764 -	772	768.26	2.60E+01	21.33	5.40E+01	3.08
	25	861.51	858 -	865	861.58	1.38E+01	17.20	4.04E+01	1.24
	26	911.34	908 -	913	911.39	2.74E+01	16.06	2.93E+01	1.78
	27	969.84	967 -	974	969.87	2.33E+01	16.61	2.74E+01	1.23
	28	1004.58	1000 -	1010	1004.60	2.12E+01	18.26	3.35E+01	1.82
	29	1045.71	1043 -	1048	1045.72	1.15E+01	10.20	1.09E+01	1.20
	30	1056.00	1050 -	1062	1056.00	2.10E+01	17.46	2.59E+01	9.76
	31	1069.28	1066 -	1072	1069.28	1.14E+01	13.33	2.31E+01	2.71
	32	1120.71	1116 -	1124	1120.69	3.37E+01	20.65	4.46E+01	2.38
	33	1238.11	1235 -	1241	1238.05	2.12E+01	10.98	5.67E+00	1.96
	34	1255.01	1250 -	1259	1254.94	1.36E+01	15.00	2.28E+01	4.81
	35	1460.91	1455 -	1468	1460.77	1.20E+02	28.16	3.38E+01	2.63
	36	1567.70	1564 -	1570	1567.52	5.29E+00	6.34	3.43E+00	2.84
	37	1591.92	1589 -	1594	1591.73	7.59E+00	8.43	6.82E+00	2.99
	38	1764.45	1759 -	1767	1764.19	2.24E+01	15.40	2.33E+01	1.90
	39	1770.94	1769 -	1773	1770.69	5.17E+00	5.50	1.67E+00	2.48
	40	1933.25	1929 -	1935	1932.93	6.19E+00	6.65	3.63E+00	1.81

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	2068.57	2065 -	2070	2068.20	5.00E+00	4.47	0.00E+00	1.16
42	2445.95	2442 -	2448	2445.43	7.00E+00	5.29	0.00E+00	2.74

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:29:53AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	43.77	43 -	51	2.10E+01	19.57	1.09E+02	1.72E+01
	2	53.77	52 -	57	3.94E+01	41.83	3.19E+02	3.28E+01
M	3	68.22	67 -	81	3.77E+01	32.89	2.61E+02	2.66E+01
m	4	74.78	67 -	81	1.09E+02	49.74	4.22E+02	3.38E+01
m	5	77.49	67 -	81	1.67E+02	54.42	4.11E+02	3.33E+01
	6	92.92	90 -	97	2.19E+02	70.85	6.65E+02	5.29E+01
	7	119.79	118 -	123	3.96E+01	36.82	2.39E+02	2.84E+01
	8	154.19	152 -	158	4.16E+01	39.88	2.53E+02	3.10E+01
	9	185.71	182 -	190	1.57E+02	54.26	3.58E+02	3.96E+01
M	10	238.56	235 -	248	1.80E+02	36.40	1.43E+02	1.97E+01
m	11	241.75	235 -	248	5.88E+01	33.24	1.16E+02	1.77E+01
	12	295.31	291 -	299	1.39E+02	44.27	2.17E+02	3.08E+01
	13	332.34	330 -	335	2.20E+01	22.54	8.40E+01	1.68E+01
	14	339.78	336 -	344	6.26E+01	31.28	1.11E+02	2.22E+01
	15	351.97	348 -	356	2.22E+02	43.73	1.59E+02	2.63E+01
M	16	462.90	460 -	471	2.13E+01	19.82	6.15E+01	1.29E+01
m	17	467.82	460 -	471	2.08E+01	19.72	6.44E+01	1.32E+01
	18	536.59	533 -	542	1.74E+01	22.18	6.12E+01	1.69E+01
M	19	582.65	578 -	600	4.87E+01	19.87	3.65E+01	9.93E+00
m	20	585.83	578 -	600	1.40E+01	18.13	2.71E+01	8.55E+00
	21	609.51	606 -	613	1.69E+02	34.29	8.20E+01	1.84E+01
	22	728.22	726 -	732	2.42E+01	18.30	4.55E+01	1.27E+01
	23	751.65	749 -	754	1.44E+01	12.77	2.13E+01	8.45E+00
	24	768.15	764 -	772	2.60E+01	21.33	5.40E+01	1.54E+01
	25	861.51	858 -	865	1.38E+01	17.20	4.04E+01	1.28E+01

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
26	911.34	908 -	913	2.74E+01	16.06	2.93E+01	1.00E+01
27	969.84	967 -	974	2.33E+01	16.61	2.74E+01	1.11E+01
28	1004.58	1000 -	1010	2.12E+01	18.26	3.35E+01	1.30E+01
29	1045.71	1043 -	1048	1.15E+01	10.20	1.09E+01	6.25E+00
30	1056.00	1050 -	1062	2.10E+01	17.46	2.59E+01	1.22E+01
31	1069.28	1066 -	1072	1.14E+01	13.33	2.31E+01	9.44E+00
32	1120.71	1116 -	1124	3.37E+01	20.65	4.46E+01	1.40E+01
33	1238.11	1235 -	1241	2.12E+01	10.98	5.67E+00	4.92E+00
34	1255.01	1250 -	1259	1.36E+01	15.00	2.28E+01	1.07E+01
35	1460.91	1455 -	1468	1.20E+02	28.16	3.38E+01	1.45E+01
36	1567.70	1564 -	1570	5.29E+00	6.34	3.43E+00	3.59E+00
37	1591.92	1589 -	1594	7.59E+00	8.43	6.82E+00	5.24E+00
38	1764.45	1759 -	1767	2.24E+01	15.40	2.33E+01	9.99E+00
39	1770.94	1769 -	1773	5.17E+00	5.50	1.67E+00	2.54E+00
40	1933.25	1929 -	1935	6.19E+00	6.65	3.63E+00	3.63E+00
41	2068.57	2065 -	2070	5.00E+00	4.47	0.00E+00	0.00E+00
42	2445.95	2442 -	2448	7.00E+00	5.29	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 11:29:53AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	43.77	43 -	51	44.13	2.10E+01	19.57	1.09E+02	.....
	2	53.77	52 -	57	54.12	3.94E+01	41.83	3.19E+02	.....
M	3	68.22	67 -	81	68.56	3.77E+01	32.89	2.61E+02	TI-44
									TA-182
									TH-230
m	4	74.78	67 -	81	75.12	1.09E+02	49.74	4.22E+02	AM-243
m	5	77.49	67 -	81	77.83	1.67E+02	54.42	4.11E+02	TI-44
	6	92.92	90 -	97	93.26	2.19E+02	70.85	6.65E+02	GA-67

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	7	119.79	118 -	123	120.11	3.96E+01	36.82	2.39E+02	.....
	8	154.19	152 -	158	154.50	4.16E+01	39.88	2.53E+02	CS-136
	9	185.71	182 -	190	186.02	1.57E+02	54.26	3.58E+02	RA-226
M	10	238.56	235 -	248	238.85	1.80E+02	36.40	1.43E+02	PB-212
m	11	241.75	235 -	248	242.03	5.88E+01	33.24	1.16E+02	RA-224
	12	295.31	291 -	299	295.57	1.39E+02	44.27	2.17E+02	PB-214
	13	332.34	330 -	335	332.59	2.20E+01	22.54	8.40E+01	.....
	14	339.78	336 -	344	340.04	6.26E+01	31.28	1.11E+02	CS-136
	15	351.97	348 -	356	352.22	2.22E+02	43.73	1.59E+02	PB-214
M	16	462.90	460 -	471	463.11	2.13E+01	19.82	6.15E+01	SB-125
m	17	467.82	460 -	471	468.03	2.08E+01	19.72	6.44E+01	IR-192
	18	536.59	533 -	542	536.78	1.74E+01	22.18	6.12E+01	BA-140
M	19	582.65	578 -	600	582.82	4.87E+01	19.87	3.65E+01	TL-208
m	20	585.83	578 -	600	586.00	1.40E+01	18.13	2.71E+01	.....
	21	609.51	606 -	613	609.67	1.69E+02	34.29	8.20E+01	BI-214
	22	728.22	726 -	732	728.34	2.42E+01	18.30	4.55E+01	.....
	23	751.65	749 -	754	751.76	1.44E+01	12.77	2.13E+01	.....
	24	768.15	764 -	772	768.26	2.60E+01	21.33	5.40E+01	.....
	25	861.51	858 -	865	861.58	1.38E+01	17.20	4.04E+01	.....
	26	911.34	908 -	913	911.39	2.74E+01	16.06	2.93E+01	AC-228
									LU-172
	27	969.84	967 -	974	969.87	2.33E+01	16.61	2.74E+01	AC-228
	28	1004.58	1000 -	1010	1004.60	2.12E+01	18.26	3.35E+01	EU-154
	29	1045.71	1043 -	1048	1045.72	1.15E+01	10.20	1.09E+01	.....
	30	1056.00	1050 -	1062	1056.00	2.10E+01	17.46	2.59E+01	.....
	31	1069.28	1066 -	1072	1069.28	1.14E+01	13.33	2.31E+01	.....
	32	1120.71	1116 -	1124	1120.69	3.37E+01	20.65	4.46E+01	SC-46
									BI-214
									TA-182
	33	1238.11	1235 -	1241	1238.05	2.12E+01	10.98	5.67E+00	CO-56
	34	1255.01	1250 -	1259	1254.94	1.36E+01	15.00	2.28E+01	.....
	35	1460.91	1455 -	1468	1460.77	1.20E+02	28.16	3.38E+01	K-40
	36	1567.70	1564 -	1570	1567.52	5.29E+00	6.34	3.43E+00	.....
	37	1591.92	1589 -	1594	1591.73	7.59E+00	8.43	6.82E+00	.....
	38	1764.45	1759 -	1767	1764.19	2.24E+01	15.40	2.33E+01	BI-214
	39	1770.94	1769 -	1773	1770.69	5.17E+00	5.50	1.67E+00	CO-56
	40	1933.25	1929 -	1935	1932.93	6.19E+00	6.65	3.63E+00	.....
	41	2068.57	2065 -	2070	2068.20	5.00E+00	4.47	0.00E+00	.....
	42	2445.95	2442 -	2448	2445.43	7.00E+00	5.29	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 11:29:53AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	43.77	2.10E+01	19.57	1.49E-02	1.78E-03
	2	53.77	3.94E+01	41.83	2.11E-02	1.78E-03
M	3	68.22	3.77E+01	32.89	2.62E-02	2.07E-03
m	4	74.78	1.09E+02	49.74	2.75E-02	2.29E-03
m	5	77.49	1.67E+02	54.42	2.78E-02	2.39E-03
	6	92.92	2.19E+02	70.85	2.86E-02	2.64E-03
	7	119.79	3.96E+01	36.82	2.74E-02	2.11E-03
	8	154.19	4.16E+01	39.88	2.47E-02	2.15E-03
	9	185.71	1.57E+02	54.26	2.24E-02	2.03E-03
M	10	238.56	1.80E+02	36.40	1.92E-02	1.64E-03
m	11	241.75	5.88E+01	33.24	1.91E-02	1.62E-03
	12	295.31	1.39E+02	44.27	1.67E-02	1.31E-03
	13	332.34	2.20E+01	22.54	1.54E-02	1.23E-03
	14	339.78	6.26E+01	31.28	1.51E-02	1.22E-03
	15	351.97	2.22E+02	43.73	1.48E-02	1.19E-03
M	16	462.90	2.13E+01	19.82	1.21E-02	1.04E-03
m	17	467.82	2.08E+01	19.72	1.20E-02	1.04E-03
	18	536.59	1.74E+01	22.18	1.08E-02	9.64E-04
M	19	582.65	4.87E+01	19.87	1.02E-02	9.16E-04
m	20	585.83	1.40E+01	18.13	1.01E-02	9.13E-04
	21	609.51	1.69E+02	34.29	9.82E-03	8.88E-04
	22	728.22	2.42E+01	18.30	8.55E-03	7.75E-04
	23	751.65	1.44E+01	12.77	8.33E-03	7.54E-04
	24	768.15	2.60E+01	21.33	8.19E-03	7.39E-04
	25	861.51	1.38E+01	17.20	7.48E-03	6.55E-04
	26	911.34	2.74E+01	16.06	7.15E-03	6.15E-04
	27	969.84	2.33E+01	16.61	6.80E-03	5.85E-04
	28	1004.58	2.12E+01	18.26	6.61E-03	5.67E-04
	29	1045.71	1.15E+01	10.20	6.40E-03	5.45E-04
	30	1056.00	2.10E+01	17.46	6.36E-03	5.40E-04
	31	1069.28	1.14E+01	13.33	6.29E-03	5.33E-04
	32	1120.71	3.37E+01	20.65	6.06E-03	5.06E-04
	33	1238.11	2.12E+01	10.98	5.61E-03	4.68E-04
	34	1255.01	1.36E+01	15.00	5.56E-03	4.65E-04
	35	1460.91	1.20E+02	28.16	4.97E-03	4.19E-04
	36	1567.70	5.29E+00	6.34	4.74E-03	3.93E-04
	37	1591.92	7.59E+00	8.43	4.69E-03	3.87E-04
	38	1764.45	2.24E+01	15.40	4.40E-03	3.44E-04
	39	1770.94	5.17E+00	5.50	4.39E-03	3.42E-04
	40	1933.25	6.19E+00	6.65	4.18E-03	3.26E-04
	41	2068.57	5.00E+00	4.47	4.05E-03	3.26E-04
	42	2445.95	7.00E+00	5.29	3.83E-03	3.26E-04

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 11:29:53AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	43.77	2.10E+01	19.57			2.10E+01	1.96E+01
	2	53.77	3.94E+01	41.83			3.94E+01	4.18E+01
M	3	68.22	3.77E+01	32.89			3.77E+01	3.29E+01
m	4	74.78	1.09E+02	49.74			1.09E+02	4.97E+01
m	5	77.49	1.67E+02	54.42	1.37E+01	4.21E+00	1.54E+02	5.46E+01
	6	92.92	2.19E+02	70.85	1.40E+02	3.42E+01	7.86E+01	7.87E+01
	7	119.79	3.96E+01	36.82			3.96E+01	3.68E+01
	8	154.19	4.16E+01	39.88			4.16E+01	3.99E+01
	9	185.71	1.57E+02	54.26	6.17E+01	7.27E+00	9.52E+01	5.47E+01
M	10	238.56	1.80E+02	36.40	1.90E+01	5.64E+00	1.61E+02	3.68E+01
m	11	241.75	5.88E+01	33.24			5.88E+01	3.32E+01
	12	295.31	1.39E+02	44.27	3.06E+00	4.82E+00	1.36E+02	4.45E+01
	13	332.34	2.20E+01	22.54			2.20E+01	2.25E+01
	14	339.78	6.26E+01	31.28			6.26E+01	3.13E+01
	15	351.97	2.22E+02	43.73	1.06E+01	4.49E+00	2.11E+02	4.40E+01
M	16	462.90	2.13E+01	19.82			2.13E+01	1.98E+01
m	17	467.82	2.08E+01	19.72			2.08E+01	1.97E+01
	18	536.59	1.74E+01	22.18			1.74E+01	2.22E+01
M	19	582.65	4.87E+01	19.87	3.96E+00	4.13E+00	4.48E+01	2.03E+01
m	20	585.83	1.40E+01	18.13			1.40E+01	1.81E+01
	21	609.51	1.69E+02	34.29	8.00E+00	4.15E+00	1.61E+02	3.45E+01
	22	728.22	2.42E+01	18.30			2.42E+01	1.83E+01
	23	751.65	1.44E+01	12.77			1.44E+01	1.28E+01
	24	768.15	2.60E+01	21.33			2.60E+01	2.13E+01
	25	861.51	1.38E+01	17.20			1.38E+01	1.72E+01
	26	911.34	2.74E+01	16.06	3.29E+00	3.12E+00	2.41E+01	1.64E+01
	27	969.84	2.33E+01	16.61			2.33E+01	1.66E+01
	28	1004.58	2.12E+01	18.26			2.12E+01	1.83E+01
	29	1045.71	1.15E+01	10.20			1.15E+01	1.02E+01
	30	1056.00	2.10E+01	17.46			2.10E+01	1.75E+01
	31	1069.28	1.14E+01	13.33			1.14E+01	1.33E+01
	32	1120.71	3.37E+01	20.65			3.37E+01	2.07E+01
	33	1238.11	2.12E+01	10.98			2.12E+01	1.10E+01
	34	1255.01	1.36E+01	15.00			1.36E+01	1.50E+01
	35	1460.91	1.20E+02	28.16	5.51E+00	2.16E+00	1.15E+02	2.82E+01

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
36	1567.70	5.29E+00	6.34			5.29E+00	6.34E+00
37	1591.92	7.59E+00	8.43			7.59E+00	8.43E+00
38	1764.45	2.24E+01	15.40	1.06E+00	1.86E+00	2.13E+01	1.55E+01
39	1770.94	5.17E+00	5.50			5.17E+00	5.50E+00
40	1933.25	6.19E+00	6.65			6.19E+00	6.65E+00
41	2068.57	5.00E+00	4.47			5.00E+00	4.47E+00
42	2445.95	7.00E+00	5.29			7.00E+00	5.29E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 11:29:53AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	43.77	2.10E+01	19.57			2.10E+01	1.96E+01
	2	53.77	3.94E+01	41.83			3.94E+01	4.18E+01
M	3	68.22	3.77E+01	32.89			3.77E+01	3.29E+01
m	4	74.78	1.09E+02	49.74			1.09E+02	4.97E+01
m	5	77.49	1.67E+02	54.42	1.37E+01	4.21E+00	1.54E+02	5.46E+01
	6	92.92	2.19E+02	70.85	1.40E+02	3.42E+01	7.86E+01	7.87E+01
	7	119.79	3.96E+01	36.82			3.96E+01	3.68E+01
	8	154.19	4.16E+01	39.88			4.16E+01	3.99E+01
	9	185.71	1.57E+02	54.26	6.17E+01	7.27E+00	9.52E+01	5.47E+01
M	10	238.56	1.80E+02	36.40	1.90E+01	5.64E+00	1.61E+02	3.68E+01
m	11	241.75	5.88E+01	33.24			5.88E+01	3.32E+01
	12	295.31	1.39E+02	44.27	3.06E+00	4.82E+00	1.36E+02	4.45E+01
	13	332.34	2.20E+01	22.54			2.20E+01	2.25E+01
	14	339.78	6.26E+01	31.28			6.26E+01	3.13E+01
	15	351.97	2.22E+02	43.73	1.06E+01	4.49E+00	2.11E+02	4.40E+01
M	16	462.90	2.13E+01	19.82			2.13E+01	1.98E+01
m	17	467.82	2.08E+01	19.72			2.08E+01	1.97E+01
	18	536.59	1.74E+01	22.18			1.74E+01	2.22E+01
M	19	582.65	4.87E+01	19.87	3.96E+00	4.13E+00	4.48E+01	2.03E+01
m	20	585.83	1.40E+01	18.13			1.40E+01	1.81E+01
	21	609.51	1.69E+02	34.29	8.00E+00	4.15E+00	1.61E+02	3.45E+01

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
22	728.22	2.42E+01	18.30			2.42E+01	1.83E+01
23	751.65	1.44E+01	12.77			1.44E+01	1.28E+01
24	768.15	2.60E+01	21.33			2.60E+01	2.13E+01
25	861.51	1.38E+01	17.20			1.38E+01	1.72E+01
26	911.34	2.74E+01	16.06	3.29E+00	3.12E+00	2.41E+01	1.64E+01
27	969.84	2.33E+01	16.61			2.33E+01	1.66E+01
28	1004.58	2.12E+01	18.26			2.12E+01	1.83E+01
29	1045.71	1.15E+01	10.20			1.15E+01	1.02E+01
30	1056.00	2.10E+01	17.46			2.10E+01	1.75E+01
31	1069.28	1.14E+01	13.33			1.14E+01	1.33E+01
32	1120.71	3.37E+01	20.65			3.37E+01	2.07E+01
33	1238.11	2.12E+01	10.98			2.12E+01	1.10E+01
34	1255.01	1.36E+01	15.00			1.36E+01	1.50E+01
35	1460.91	1.20E+02	28.16	5.51E+00	2.16E+00	1.15E+02	2.82E+01
36	1567.70	5.29E+00	6.34			5.29E+00	6.34E+00
37	1591.92	7.59E+00	8.43			7.59E+00	8.43E+00
38	1764.45	2.24E+01	15.40	1.06E+00	1.86E+00	2.13E+01	1.55E+01
39	1770.94	5.17E+00	5.50			5.17E+00	5.50E+00
40	1933.25	6.19E+00	6.65			6.19E+00	6.65E+00
41	2068.57	5.00E+00	4.47			5.00E+00	4.47E+00
42	2445.95	7.00E+00	5.29			7.00E+00	5.29E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.998	1460.81	*	10.67	4.69E+00	1.22E+00
TI-44	0.934	67.88	*	94.40	3.31E-02	2.89E-02
		78.34	*	96.00	1.25E-01	4.57E-02
GA-67	0.347	93.31	*	35.70	1.01E+02	4.26E+02
		208.95		2.24		
		300.22		16.00		
IR-192	0.326	308.46		29.68		
		468.07	*	48.10	1.03E-01	9.86E-02
PB-212	0.893	238.63	*	44.60	4.06E-01	9.94E-02
		300.09		3.41		

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.921	609.31	*	46.30	7.68E-01	1.79E-01
		1120.29	*	15.10	7.98E-01	4.94E-01
		1764.49	*	15.80	6.65E-01	4.87E-01
		2204.22		4.98		
PB-214	0.999	295.21	*	19.19	9.18E-01	3.10E-01
		351.92	*	37.19	8.33E-01	1.86E-01
RA-224	0.911	240.98	*	3.95	1.69E+00	9.68E-01
RA-226	0.961	186.21	*	3.28	2.81E+00	5.39E+00
AC-228	0.530	338.32		11.40		
		911.07	*	27.70	2.64E-01	1.81E-01
		969.11	*	16.60	4.48E-01	3.21E-01
AM-243	0.998	74.67	*	66.00	1.31E-01	6.05E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:29:53AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	43.77	5.83140E-03	46.61		
	2	53.77	1.09352E-02	53.13		
	7	119.79	1.10045E-02	46.48		
	8	154.19	1.15633E-02	47.91	Sum	
	13	332.34	6.11111E-03	51.22	Sum	
	14	339.78	1.73929E-02	24.98	Tol.	CS-136
M	16	462.90	5.91741E-03	46.53	Tol.	SB-125
	18	536.59	4.83218E-03	63.75	Sum	
M	19	582.65	1.24343E-02	22.67	Tol.	TL-208
m	20	585.83	3.88746E-03	64.78		
	22	728.22	6.73463E-03	37.75		
	23	751.65	3.98889E-03	44.45		
	24	768.15	7.22222E-03	41.02		
	25	861.51	3.83987E-03	62.23		
	28	1004.58	5.89912E-03	43.00	Sum	
	29	1045.71	3.20261E-03	44.23		
	30	1056.00	5.84150E-03	41.52		

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
31	1069.28	3.17633E-03	58.30		
33	1238.11	5.87963E-03	25.93		
34	1255.01	3.77222E-03	55.23		
36	1567.70	1.46825E-03	60.01		
37	1591.92	2.10859E-03	55.50		
39	1770.94	1.43519E-03	53.23		
40	1933.25	1.71875E-03	53.75		
41	2068.57	1.38889E-03	44.72		
42	2445.95	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	4.69E+00	1.22E+00
TI-44	0.93	67.88	*	94.40	3.31E-02	2.89E-02
		78.34	*	96.00	1.25E-01	4.57E-02
GA-67	0.34	93.31	*	35.70	1.01E+02	4.26E+02
		208.95		2.24		
		300.22		16.00		
IR-192	0.32	308.46		29.68		
		468.07	*	48.10	1.03E-01	9.86E-02
PB-212	0.89	238.63	*	44.60	4.06E-01	9.94E-02
		300.09		3.41		
BI-214	0.92	609.31	*	46.30	7.68E-01	1.79E-01
		1120.29	*	15.10	7.98E-01	4.94E-01
		1764.49	*	15.80	6.65E-01	4.87E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	9.18E-01	3.10E-01
		351.92	*	37.19	8.33E-01	1.86E-01
RA-224	0.91	240.98	*	3.95	1.69E+00	9.68E-01
RA-226	0.96	186.21	*	3.28	2.81E+00	5.39E+00
AC-228	0.53	338.32		11.40		

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AC-228	0.53	911.07	*	27.70	2.64E-01	1.81E-01
		969.11	*	16.60	4.48E-01	3.21E-01
AM-243	0.99	74.67	*	66.00	1.31E-01	6.05E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.998	4.69E+00	1.22E+00	
	TI-44	0.934	5.94E-02	2.44E-02	
	GA-67	0.347	1.01E+02	4.26E+02	
X	TA-182	0.485			
	IR-192	0.326	1.03E-01	9.86E-02	
	PB-212	0.893	4.06E-01	9.94E-02	
	BI-214	0.921	7.60E-01	1.59E-01	
	PB-214	0.999	8.56E-01	1.60E-01	
	RA-224	0.911	1.69E+00	9.68E-01	
	RA-226	0.961	2.81E+00	5.39E+00	
	AC-228	0.530	3.08E-01	1.58E-01	
	AM-243	0.998	1.31E-01	6.05E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:29:53AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	43.77	5.83140E-03	46.61		
	2	53.77	1.09352E-02	53.13		
	7	119.79	1.10045E-02	46.48		
	8	154.19	1.15633E-02	47.91	Sum	
	13	332.34	6.11111E-03	51.22	Sum	
	14	339.78	1.73929E-02	24.98	Tol.	CS-136
M	16	462.90	5.91741E-03	46.53	Tol.	SB-125
	18	536.59	4.83218E-03	63.75	Sum	
M	19	582.65	1.24343E-02	22.67	Tol.	TL-208
m	20	585.83	3.88746E-03	64.78		
	22	728.22	6.73463E-03	37.75		
	23	751.65	3.98889E-03	44.45		
	24	768.15	7.22222E-03	41.02		
	25	861.51	3.83987E-03	62.23		
	28	1004.58	5.89912E-03	43.00	Sum	
	29	1045.71	3.20261E-03	44.23		
	30	1056.00	5.84150E-03	41.52		
	31	1069.28	3.17633E-03	58.30		
	33	1238.11	5.87963E-03	25.93		
	34	1255.01	3.77222E-03	55.23		
	36	1567.70	1.46825E-03	60.01		
	37	1591.92	2.10859E-03	55.50		
	39	1770.94	1.43519E-03	53.23		
	40	1933.25	1.71875E-03	53.75		
	41	2068.57	1.38889E-03	44.72		
	42	2445.95	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	8.31E-02	8.91E-01	8.91E-01
+	NA-22	1274.54		99.94	2.02E-02	9.28E-02	9.28E-02
+	NA-24	1368.53		99.99	-9.31E+12	1.75E+13	2.48E+13
		2754.09		99.86	-1.88E+12		1.75E+13
+	AL-26	1808.65		99.76	3.51E-02	7.53E-02	7.53E-02
+	K-40	1460.81	*	10.67	4.69E+00	1.35E+00	1.35E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88	*	94.40	3.31E-02	1.38E-01	1.46E-01
		78.34	*	96.00	1.25E-01		1.38E-01
+	SC-46	889.25		99.98	-1.02E-02	9.37E-02	9.37E-02
		1120.51		99.99	1.68E-01		1.69E-01
+	V-48	983.52		99.98	-4.04E-02	1.99E-01	1.99E-01
		1312.10		97.50	9.57E-02		2.43E-01
+	CR-51	320.08		9.83	4.99E-01	1.25E+00	1.25E+00
+	MN-54	834.83		99.97	-2.71E-02	6.62E-02	6.62E-02
+	CO-56	846.75		99.96	-1.60E-02	8.17E-02	8.17E-02
		1037.75		14.03	2.35E-01		7.02E-01
		1238.25		67.00	1.01E-01		1.92E-01
		1771.40		15.51	-9.80E-02		6.24E-01
		2598.48		16.90	2.94E-02		4.09E-01
+	CO-57	122.06		85.51	-1.53E-02	5.46E-02	5.46E-02
		136.48		10.60	1.43E-01		4.71E-01
+	CO-58	810.76		99.40	-5.65E-02	7.96E-02	7.96E-02
+	FE-59	1099.22		56.50	-7.30E-03	2.06E-01	2.06E-01
		1291.56		43.20	1.25E-01		2.78E-01
+	CO-60	1173.22		100.00	-1.12E-02	7.49E-02	7.76E-02
		1332.49		100.00	-1.24E-02		7.49E-02
+	ZN-65	1115.52		50.75	1.27E-02	1.80E-01	1.80E-01
+	GA-67	93.31	*	35.70	1.01E+02	1.66E+02	1.66E+02
		208.95		2.24	-1.82E+02		1.41E+03
		300.22		16.00	9.84E+01		2.19E+02
+	SE-75	121.11		16.70	2.28E-01	9.22E-02	3.29E-01
		136.00		59.20	-1.34E-02		9.22E-02
		264.65		59.80	-3.35E-02		9.46E-02
		279.53		25.20	-3.85E-02		2.43E-01
		400.65		11.40	2.86E-02		5.41E-01
+	RB-82	776.52		13.00	1.55E-01	1.27E+00	1.27E+00
+	RB-83	520.41		46.00	-6.11E-02	1.68E-01	1.68E-01
		529.64		30.30	-3.79E-02		2.16E-01
		552.65		16.40	-1.19E-01		4.06E-01
+	KR-85	513.99		0.43	2.27E+01	2.43E+01	2.43E+01
+	SR-85	513.99		99.27	1.36E-01	1.46E-01	1.46E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	Y-88	898.02	93.40	-3.10E-02	7.42E-02	9.39E-02
		1836.01	99.38	1.78E-02		7.42E-02
+	NB-93M	16.57	9.43	-1.99E+01	7.25E+01	7.25E+01
+	NB-94	702.63	100.00	1.75E-02	6.41E-02	6.41E-02
		871.10	100.00	2.20E-02		7.60E-02
+	NB-95	765.79	99.81	4.58E-02	1.58E-01	1.58E-01
+	NB-95M	235.69	25.00	-2.78E+02	7.19E+01	7.19E+01
+	ZR-95	724.18	43.70	-4.81E-02	1.73E-01	2.12E-01
		756.72	55.30	-8.06E-03		1.73E-01
+	MO-99	181.06	6.20	1.72E+02	1.14E+03	1.53E+03
		739.58	12.80	2.62E+02		1.14E+03
		778.00	4.50	-6.81E+01		3.12E+03
+	RU-103	497.08	89.00	-4.19E-02	1.03E-01	1.03E-01
+	RU-106	621.84	9.80	1.88E-01	7.69E-01	7.69E-01
+	AG-108M	433.93	89.90	1.42E-02	6.41E-02	7.01E-02
		614.37	90.40	2.97E-02		8.34E-02
		722.95	90.50	-2.23E-02		6.41E-02
+	CD-109	88.03	3.72	-4.21E-01	1.75E+00	1.75E+00
+	AG-110M	657.75	93.14	1.94E-02	8.48E-02	8.48E-02
		677.61	10.53	9.35E-02		6.66E-01
		706.67	16.46	-9.82E-02		4.02E-01
		763.93	21.98	-6.52E-03		3.73E-01
		884.67	71.63	-1.78E-03		1.03E-01
		1384.27	23.94	4.07E-02		3.95E-01
+	CD-113M	263.70	0.02	1.11E+01	2.16E+02	2.16E+02
+	SN-113	255.12	1.93	1.07E+00	1.01E-01	3.17E+00
		391.69	64.90	1.72E-02		1.01E-01
+	TE123M	159.00	84.10	1.81E-02	6.02E-02	6.02E-02
+	SB-124	602.71	97.87	4.31E-02	9.18E-02	9.18E-02
		645.85	7.26	4.92E-01		1.27E+00
		722.78	11.10	-2.57E-01		7.39E-01
		1691.02	49.00	3.24E-02		1.49E-01
+	I-125	35.49	6.49	1.97E+00	2.97E+00	2.97E+00
+	SB-125	176.33	6.89	3.62E-01	2.13E-01	7.51E-01
		427.89	29.33	-1.18E-01		2.13E-01
		463.38	10.35	-8.84E-02		6.96E-01
		600.56	17.80	1.32E-03		3.58E-01
		635.90	11.32	1.55E-01		5.71E-01
+	SB-126	414.70	83.30	-4.92E-02	3.90E-01	4.08E-01
		666.33	99.60	1.37E-01		4.30E-01
		695.00	99.60	9.11E-02		3.90E-01
		720.50	53.80	2.74E-01		6.31E-01
+	SN-126	87.57	37.00	-4.05E-02	1.68E-01	1.68E-01
+	SB-127	473.00	25.00	-2.84E+00	3.70E+01	5.44E+01
		685.20	35.70	-7.70E+00		3.70E+01
		783.80	14.70	1.51E+00		1.02E+02
+	I-129	29.78	57.00	4.28E-01	5.07E-01	5.07E-01
		33.60	13.20	-2.49E-01		1.23E+00

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		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		I-129	39.58	7.52	3.51E-01	5.07E-01	1.41E+00
+		I-131	284.30	6.05	-7.12E-01	8.96E-01	1.01E+01
			364.48	81.20	3.21E-01		8.96E-01
			636.97	7.26	4.15E+00		1.23E+01
			722.89	1.80	-1.51E+01		4.33E+01
+		TE-132	49.72	13.10	-4.27E+02	3.63E+01	3.31E+02
			228.16	88.00	8.72E+00		3.63E+01
+		BA-133	81.00	33.00	-9.14E-02	8.84E-02	1.62E-01
			302.84	17.80	1.43E-01		3.09E-01
			356.01	60.00	-4.34E-03		8.84E-02
+		I-133	529.87	86.30	-3.07E+08	1.75E+09	1.75E+09
+		CS-134	563.23	8.38	2.19E-01	7.51E-02	8.00E-01
			569.32	15.43	-5.04E-02		4.33E-01
			604.70	97.60	2.60E-02		7.51E-02
			795.84	85.40	4.22E-02		1.00E-01
			801.93	8.73	1.79E-01		1.02E+00
+		CS-135	268.24	16.00	1.83E-01	3.37E-01	3.37E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	2.61E+00	2.75E-01	3.32E+00
			163.89	4.61	1.73E+00		4.96E+00
			176.55	13.56	8.82E-01		1.83E+00
			273.65	12.66	-3.59E-01		2.04E+00
			340.57	48.50	6.66E-01		6.49E-01
			818.50	99.70	-9.95E-02		2.75E-01
			1048.07	79.60	-1.72E-01		4.68E-01
			1235.34	19.70	1.91E-01		2.49E+00
+		CS-137	661.65	85.12	2.28E-02	9.49E-02	9.49E-02
+		LA-138	788.74	34.00	-9.87E-02	1.23E-01	1.95E-01
			1435.80	66.00	3.27E-02		1.23E-01
+		CE-139	165.85	80.35	5.52E-02	6.73E-02	6.73E-02
+		BA-140	162.64	6.70	-1.19E+00	1.32E+00	3.48E+00
			304.84	4.50	-2.81E+00		5.33E+00
			423.70	3.20	-1.35E+00		1.02E+01
			437.55	2.00	1.11E+00		1.49E+01
			537.32	25.00	7.39E-01		1.32E+00
+		LA-140	328.77	20.50	2.75E-02	3.26E-01	1.19E+00
			487.03	45.50	-1.14E-01		7.32E-01
			815.85	23.50	6.64E-01		1.51E+00
			1596.49	95.49	-4.97E-02		3.26E-01
+		CE-141	145.44	48.40	5.70E-02	1.95E-01	1.95E-01
+		CE-143	57.36	11.80	1.20E+06	8.20E+05	2.05E+06
			293.26	42.00	1.55E+06		8.20E+05
			664.55	5.20	2.22E+06		6.23E+06
+		CE-144	133.54	10.80	-1.49E-01	4.59E-01	4.59E-01
+		PM-144	476.78	42.00	5.79E-02	7.78E-02	1.63E-01
			618.01	98.60	4.81E-02		8.69E-02
			696.49	99.49	1.10E-02		7.78E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-145	36.85		21.70	-3.71E-01	3.01E-01	5.51E-01
		37.36		39.70	-1.04E-01		3.01E-01
		42.30		15.10	6.52E-02		6.41E-01
		72.40		2.31	-2.15E+00		2.91E+00
+	PM-146	453.90		39.94	7.33E-02	1.59E-01	1.59E-01
		735.90		14.01	-5.91E-02		4.96E-01
		747.13		13.10	-1.46E-01		4.14E-01
+	ND-147	91.11		28.90	-1.49E+00	1.68E+00	1.68E+00
		531.02		13.10	-4.95E-01		2.64E+00
+	PM-149	285.90		3.10	-1.04E+03	1.81E+04	1.81E+04
+	EU-152	121.78		20.50	-5.94E-02	2.12E-01	2.12E-01
		244.69		5.40	4.97E-01		1.09E+00
		344.27		19.13	-3.04E-03		2.57E-01
		778.89		9.20	5.48E-01		8.24E-01
		964.01		10.40	4.82E-01		9.14E-01
		1085.78		7.22	7.71E-02		1.06E+00
		1112.02		9.60	1.49E-01		8.35E-01
		1407.95		14.94	2.24E-02		5.75E-01
+	GD-153	97.43		31.30	-1.44E-02	1.62E-01	1.62E-01
		103.18		22.20	-7.05E-02		2.10E-01
+	EU-154	123.07		40.50	-1.44E-02	1.04E-01	1.04E-01
		723.30		19.70	-1.03E-01		2.96E-01
		873.19		11.50	2.38E-01		6.42E-01
		996.32		10.30	1.19E-01		6.97E-01
		1004.76		17.90	3.44E-01		5.28E-01
		1274.45		35.50	5.60E-02		2.57E-01
+	EU-155	86.50		30.90	-6.14E-03	2.08E-01	2.08E-01
		105.30		20.70	8.21E-02		2.13E-01
+	EU-156	811.77		10.40	2.10E-01	2.47E+00	2.47E+00
		1153.47		7.20	-2.03E+00		3.50E+00
		1230.71		8.90	6.89E-01		3.64E+00
+	HO-166M	184.41		72.60	1.92E-01	1.01E-01	1.01E-01
		280.45		29.60	6.14E-03		1.73E-01
		410.94		11.10	-5.55E-02		5.73E-01
		711.69		54.10	1.06E-01		1.43E-01
+	TM-171	66.72		0.14	-3.85E+01	4.74E+01	4.74E+01
+	HF-172	81.75		4.52	-4.50E-01	4.09E-01	1.27E+00
		125.81		11.30	3.27E-03		4.09E-01
+	LU-172	181.53		20.60	3.04E-01	2.98E+00	5.33E+00
		810.06		16.63	-8.57E+00		8.22E+00
		912.12		15.25	-2.16E+00		1.51E+01
		1093.66		62.50	6.09E-01		2.98E+00
+	LU-173	100.72		5.24	3.40E-01	2.60E-01	8.91E-01
		272.11		21.20	-4.82E-02		2.60E-01
+	HF-175	343.40		84.00	2.04E-04	8.25E-02	8.25E-02
+	LU-176	88.34		13.30	2.16E-01	5.10E-02	4.75E-01
		201.83		86.00	-5.27E-03		5.59E-02
		306.78		94.00	-2.32E-02		5.10E-02
+	TA-182	67.75	*	41.20	9.08E-02	3.79E-01	4.02E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TA-182	1121.30	*	34.90	4.15E-01	3.79E-01	3.79E-01
		1189.05		16.23	1.45E-01		6.51E-01
		1221.41		26.98	7.45E-02		4.09E-01
		1231.02		11.44	1.63E-01		8.60E-01
+	IR-192	308.46		29.68	-1.65E-02	2.25E-01	2.25E-01
		468.07	*	48.10	1.03E-01		2.57E-01
+	HG-203	279.19		77.30	2.92E-02	1.10E-01	1.10E-01
+	BI-207	569.67		97.72	-2.98E-02	6.49E-02	6.49E-02
		1063.62		74.90	1.15E-02		1.03E-01
+	TL-208	583.14		30.22	4.61E-01	3.20E-01	3.20E-01
		860.37		4.48	4.09E-01		1.80E+00
		2614.66		35.85	1.57E-01		3.58E-01
+	BI-210M	262.00		45.00	4.05E-02	1.14E-01	1.14E-01
		300.00		23.00	1.13E-01		2.52E-01
+	PB-210	46.50		4.25	5.44E-01	2.16E+00	2.16E+00
+	PB-211	404.84		2.90	-3.64E-01	1.71E+00	1.71E+00
		831.96		2.90	6.81E-01		2.34E+00
+	BI-212	727.17		11.80	-5.83E-02	7.14E-01	7.14E-01
		1620.62		2.75	-1.28E+00		1.58E+00
+	PB-212	238.63	*	44.60	4.06E-01	2.33E-01	2.33E-01
		300.09		3.41	7.62E-01		1.70E+00
+	BI-214	609.31	*	46.30	7.68E-01	1.97E-01	1.97E-01
		1120.29	*	15.10	7.98E-01		7.29E-01
		1764.49	*	15.80	6.65E-01		7.25E-01
		2204.22		4.98	9.93E-01		1.84E+00
+	PB-214	295.21	*	19.19	9.18E-01	2.25E-01	4.41E-01
		351.92	*	37.19	8.33E-01		2.25E-01
+	RN-219	401.80		6.50	2.16E-01	8.07E-01	8.07E-01
+	RA-223	323.87		3.88	-3.57E-03	1.38E+00	1.38E+00
+	RA-224	240.98	*	3.95	1.69E+00	2.58E+00	2.58E+00
+	RA-225	40.00		31.00	3.40E-01	1.37E+00	1.37E+00
+	RA-226	186.21	*	3.28	2.81E+00	2.56E+00	2.56E+00
+	TH-227	50.10		8.40	-1.08E+00	4.80E-01	8.37E-01
		236.00		11.50	-1.85E+00		4.80E-01
		256.20		6.30	6.49E-02		8.07E-01
+	AC-228	338.32		11.40	3.17E-01	2.66E-01	5.49E-01
		911.07	*	27.70	2.64E-01		2.66E-01
		969.11	*	16.60	4.48E-01		4.79E-01
+	TH-230	48.44		16.90	2.68E-01	4.92E-01	4.92E-01
		62.85		4.60	1.34E+00		1.55E+00
		67.67		0.37	7.75E+00		1.73E+01
+	PA-231	283.67		1.60	-2.34E-01	2.38E+00	2.89E+00
		302.67		2.30	1.10E+00		2.38E+00
+	TH-231	25.64		14.70	5.58E+00	9.06E-01	6.59E+00
		84.21		6.40	-1.53E+00		9.06E-01
+	PA-233	311.98		38.60	1.58E-01	3.01E-01	3.01E-01
+	PA-234	131.20		20.40	-1.32E-01	2.22E-01	2.22E-01
		733.99		8.80	-4.35E-02		8.30E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	946.00		12.00	3.21E-01	2.22E-01	7.12E-01
+	PA-234M	1001.03		0.92	2.22E-01	7.58E+00	7.58E+00
+	TH-234	63.29		3.80	1.76E+00	1.89E+00	1.89E+00
+	U-235	143.76		10.50	2.50E-01	4.79E-01	4.79E-01
		163.35		4.70	3.46E-01		9.93E-01
		205.31		4.70	-2.86E-01		1.09E+00
+	NP-237	86.50		12.60	-1.49E-02	5.04E-01	5.04E-01
+	NP-239	106.10		22.70	5.28E+02	1.37E+03	1.37E+03
		228.18		10.70	8.39E+02		3.49E+03
		277.60		14.10	-4.81E+01		2.69E+03
+	AM-241	59.54		35.90	-5.33E-02	1.67E-01	1.67E-01
+	AM-243	74.67	*	66.00	1.31E-01	2.03E-01	2.03E-01
+	CM-243	209.75		3.29	4.12E-01	3.81E-01	1.58E+00
		228.14		10.60	1.19E-01		4.96E-01
		277.60		14.00	-6.81E-03		3.81E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	8.91E-01	8.91E-01	8.31E-02	4.11E-01
	NA-22	1274.54		99.94	9.28E-02	9.28E-02	2.02E-02	4.10E-02
	NA-24	1368.53		99.99	2.48E+13	1.75E+13	-9.31E+12	1.05E+13
		2754.09		99.86	1.75E+13		-1.88E+12	6.19E+12
	AL-26	1808.65		99.76	7.53E-02	7.53E-02	3.51E-02	3.09E-02
+	K-40	1460.81	*	10.67	1.35E+00	1.35E+00	4.69E+00	6.20E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20

Analysis Report for 1506114-11

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	TI-44	67.88	*	94.40	1.46E-01	1.38E-01	3.31E-02	7.20E-02
		78.34	*	96.00	1.38E-01		1.25E-01	6.80E-02
	SC-46	889.25		99.98	9.37E-02	9.37E-02	-1.02E-02	4.17E-02
		1120.51		99.99	1.69E-01		1.68E-01	7.84E-02
	V-48	983.52		99.98	1.99E-01	1.99E-01	-4.04E-02	8.33E-02
		1312.10		97.50	2.43E-01		9.57E-02	1.01E-01
	CR-51	320.08		9.83	1.25E+00	1.25E+00	4.99E-01	5.87E-01
	MN-54	834.83		99.97	6.62E-02	6.62E-02	-2.71E-02	2.90E-02
	CO-56	846.75		99.96	8.17E-02	8.17E-02	-1.60E-02	3.58E-02
		1037.75		14.03	7.02E-01		2.35E-01	3.09E-01
		1238.25		67.00	1.92E-01		1.01E-01	8.57E-02
		1771.40		15.51	6.24E-01		-9.80E-02	2.56E-01
		2598.48		16.90	4.09E-01		2.94E-02	1.45E-01
	CO-57	122.06		85.51	5.46E-02	5.46E-02	-1.53E-02	2.60E-02
		136.48		10.60	4.71E-01		1.43E-01	2.24E-01
	CO-58	810.76		99.40	7.96E-02	7.96E-02	-5.65E-02	3.48E-02
	FE-59	1099.22		56.50	2.06E-01	2.06E-01	-7.30E-03	8.97E-02
		1291.56		43.20	2.78E-01		1.25E-01	1.19E-01
	CO-60	1173.22		100.00	7.76E-02	7.49E-02	-1.12E-02	3.38E-02
		1332.49		100.00	7.49E-02		-1.24E-02	3.18E-02
	ZN-65	1115.52		50.75	1.80E-01	1.80E-01	1.27E-02	7.96E-02
+	GA-67	93.31	*	35.70	1.66E+02	1.66E+02	1.01E+02	8.12E+01
		208.95		2.24	1.41E+03		-1.82E+02	6.66E+02
		300.22		16.00	2.19E+02		9.84E+01	1.03E+02
	SE-75	121.11		16.70	3.29E-01	9.22E-02	2.28E-01	1.57E-01
		136.00		59.20	9.22E-02		-1.34E-02	4.38E-02
		264.65		59.80	9.46E-02		-3.35E-02	4.40E-02
		279.53		25.20	2.43E-01		-3.85E-02	1.14E-01
		400.65		11.40	5.41E-01		2.86E-02	2.48E-01
	RB-82	776.52		13.00	1.27E+00	1.27E+00	1.55E-01	5.73E-01
	RB-83	520.41		46.00	1.68E-01	1.68E-01	-6.11E-02	7.67E-02
		529.64		30.30	2.16E-01		-3.79E-02	9.70E-02
		552.65		16.40	4.06E-01		-1.19E-01	1.81E-01
	KR-85	513.99		0.43	2.43E+01	2.43E+01	2.27E+01	1.15E+01
	SR-85	513.99		99.27	1.46E-01	1.46E-01	1.36E-01	6.92E-02
	Y-88	898.02		93.40	9.39E-02	7.42E-02	-3.10E-02	4.16E-02
		1836.01		99.38	7.42E-02		1.78E-02	2.87E-02
	NB-93M	16.57		9.43	7.25E+01	7.25E+01	-1.99E+01	3.24E+01
	NB-94	702.63		100.00	6.41E-02	6.41E-02	1.75E-02	2.87E-02
		871.10		100.00	7.60E-02		2.20E-02	3.40E-02
	NB-95	765.79		99.81	1.58E-01	1.58E-01	4.58E-02	7.24E-02
	NB-95M	235.69		25.00	7.19E+01	7.19E+01	-2.78E+02	3.40E+01
	ZR-95	724.18		43.70	2.12E-01	1.73E-01	-4.81E-02	9.50E-02
		756.72		55.30	1.73E-01		-8.06E-03	7.78E-02
	MO-99	181.06		6.20	1.53E+03	1.14E+03	1.72E+02	7.25E+02
		739.58		12.80	1.14E+03		2.62E+02	5.16E+02
		778.00		4.50	3.12E+03		-6.81E+01	1.40E+03
	RU-103	497.08		89.00	1.03E-01	1.03E-01	-4.19E-02	4.68E-02
	RU-106	621.84		9.80	7.69E-01	7.69E-01	1.88E-01	3.52E-01
	AG-108M	433.93		89.90	7.01E-02	6.41E-02	1.42E-02	3.25E-02
		614.37		90.40	8.34E-02		2.97E-02	3.84E-02
		722.95		90.50	6.41E-02		-2.23E-02	2.83E-02
	CD-109	88.03		3.72	1.75E+00	1.75E+00	-4.21E-01	8.46E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	657.75	93.14	8.48E-02	8.48E-02	1.94E-02	3.87E-02
	677.61	10.53	6.66E-01		9.35E-02	2.99E-01
	706.67	16.46	4.02E-01		-9.82E-02	1.79E-01
	763.93	21.98	3.73E-01		-6.52E-03	1.69E-01
	884.67	71.63	1.03E-01		-1.78E-03	4.56E-02
	1384.27	23.94	3.95E-01		4.07E-02	1.72E-01
CD-113M	263.70	0.02	2.16E+02	2.16E+02	1.11E+01	1.01E+02
SN-113	255.12	1.93	3.17E+00	1.01E-01	1.07E+00	1.48E+00
	391.69	64.90	1.01E-01		1.72E-02	4.67E-02
TE123M	159.00	84.10	6.02E-02	6.02E-02	1.81E-02	2.84E-02
SB-124	602.71	97.87	9.18E-02	9.18E-02	4.31E-02	4.16E-02
	645.85	7.26	1.27E+00		4.92E-01	5.73E-01
	722.78	11.10	7.39E-01		-2.57E-01	3.26E-01
	1691.02	49.00	1.49E-01		3.24E-02	5.59E-02
I-125	35.49	6.49	2.97E+00	2.97E+00	1.97E+00	1.41E+00
SB-125	176.33	6.89	7.51E-01	2.13E-01	3.62E-01	3.56E-01
	427.89	29.33	2.13E-01		-1.18E-01	9.87E-02
	463.38	10.35	6.96E-01		-8.84E-02	3.24E-01
	600.56	17.80	3.58E-01		1.32E-03	1.62E-01
	635.90	11.32	5.71E-01		1.55E-01	2.58E-01
SB-126	414.70	83.30	4.08E-01	3.90E-01	-4.92E-02	1.89E-01
	666.33	99.60	4.30E-01		1.37E-01	1.98E-01
	695.00	99.60	3.90E-01		9.11E-02	1.77E-01
	720.50	53.80	6.31E-01		2.74E-01	2.81E-01
SN-126	87.57	37.00	1.68E-01	1.68E-01	-4.05E-02	8.14E-02
SB-127	473.00	25.00	5.44E+01	3.70E+01	-2.84E+00	2.50E+01
	685.20	35.70	3.70E+01		-7.70E+00	1.64E+01
	783.80	14.70	1.02E+02		1.51E+00	4.54E+01
I-129	29.78	57.00	5.07E-01	5.07E-01	4.28E-01	2.42E-01
	33.60	13.20	1.23E+00		-2.49E-01	5.82E-01
	39.58	7.52	1.41E+00		3.51E-01	6.74E-01
I-131	284.30	6.05	1.01E+01	8.96E-01	-7.12E-01	4.68E+00
	364.48	81.20	8.96E-01		3.21E-01	4.14E-01
	636.97	7.26	1.23E+01		4.15E+00	5.57E+00
	722.89	1.80	4.33E+01		-1.51E+01	1.91E+01
TE-132	49.72	13.10	3.31E+02	3.63E+01	-4.27E+02	1.58E+02
	228.16	88.00	3.63E+01		8.72E+00	1.71E+01
BA-133	81.00	33.00	1.62E-01	8.84E-02	-9.14E-02	7.78E-02
	302.84	17.80	3.09E-01		1.43E-01	1.44E-01
	356.01	60.00	8.84E-02		-4.34E-03	4.08E-02
I-133	529.87	86.30	1.75E+09	1.75E+09	-3.07E+08	7.86E+08
CS-134	563.23	8.38	8.00E-01	7.51E-02	2.19E-01	3.65E-01
	569.32	15.43	4.33E-01		-5.04E-02	1.97E-01
	604.70	97.60	7.51E-02		2.60E-02	3.44E-02
	795.84	85.40	1.00E-01		4.22E-02	4.58E-02
	801.93	8.73	1.02E+00		1.79E-01	4.69E-01
CS-135	268.24	16.00	3.37E-01	3.37E-01	1.83E-01	1.58E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	3.32E+00	2.75E-01	2.61E+00	1.58E+00
	163.89	4.61	4.96E+00		1.73E+00	2.35E+00
	176.55	13.56	1.83E+00		8.82E-01	8.68E-01

Analysis Report for 1506114-11

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	273.65	12.66	2.04E+00	2.75E-01	-3.59E-01	9.55E-01
	340.57	48.50	6.49E-01		6.66E-01	3.05E-01
	818.50	99.70	2.75E-01		-9.95E-02	1.19E-01
	1048.07	79.60	4.68E-01		-1.72E-01	2.06E-01
	1235.34	19.70	2.49E+00		1.91E-01	1.11E+00
CS-137	661.65	85.12	9.49E-02	9.49E-02	2.28E-02	4.37E-02
LA-138	788.74	34.00	1.95E-01	1.23E-01	-9.87E-02	8.68E-02
	1435.80	66.00	1.23E-01		3.27E-02	5.26E-02
CE-139	165.85	80.35	6.73E-02	6.73E-02	5.52E-02	3.18E-02
BA-140	162.64	6.70	3.48E+00	1.32E+00	-1.19E+00	1.65E+00
	304.84	4.50	5.33E+00		-2.81E+00	2.46E+00
	423.70	3.20	1.02E+01		-1.35E+00	4.72E+00
	437.55	2.00	1.49E+01		1.11E+00	6.87E+00
	537.32	25.00	1.32E+00		7.39E-01	6.04E-01
LA-140	328.77	20.50	1.19E+00	3.26E-01	2.75E-02	5.46E-01
	487.03	45.50	7.32E-01		-1.14E-01	3.38E-01
	815.85	23.50	1.51E+00		6.64E-01	6.75E-01
	1596.49	95.49	3.26E-01		-4.97E-02	1.29E-01
CE-141	145.44	48.40	1.95E-01	1.95E-01	5.70E-02	9.29E-02
CE-143	57.36	11.80	2.05E+06	8.20E+05	1.20E+06	9.81E+05
	293.26	42.00	8.20E+05		1.55E+06	3.94E+05
	664.55	5.20	6.23E+06		2.22E+06	2.87E+06
CE-144	133.54	10.80	4.59E-01	4.59E-01	-1.49E-01	2.18E-01
PM-144	476.78	42.00	1.63E-01	7.78E-02	5.79E-02	7.52E-02
	618.01	98.60	8.69E-02		4.81E-02	4.02E-02
	696.49	99.49	7.78E-02		1.10E-02	3.54E-02
PM-145	36.85	21.70	5.51E-01	3.01E-01	-3.71E-01	2.61E-01
	37.36	39.70	3.01E-01		-1.04E-01	1.43E-01
	42.30	15.10	6.41E-01		6.52E-02	3.07E-01
	72.40	2.31	2.91E+00		-2.15E+00	1.41E+00
PM-146	453.90	39.94	1.59E-01	1.59E-01	7.33E-02	7.35E-02
	735.90	14.01	4.96E-01		-5.91E-02	2.23E-01
	747.13	13.10	4.14E-01		-1.46E-01	1.80E-01
ND-147	91.11	28.90	1.68E+00	1.68E+00	-1.49E+00	8.17E-01
	531.02	13.10	2.64E+00		-4.95E-01	1.18E+00
PM-149	285.90	3.10	1.81E+04	1.81E+04	-1.04E+03	8.36E+03
EU-152	121.78	20.50	2.12E-01	2.12E-01	-5.94E-02	1.01E-01
	244.69	5.40	1.09E+00		4.97E-01	5.16E-01
	344.27	19.13	2.57E-01		-3.04E-03	1.18E-01
	778.89	9.20	8.24E-01		5.48E-01	3.72E-01
	964.01	10.40	9.14E-01		4.82E-01	4.16E-01
	1085.78	7.22	1.06E+00		7.71E-02	4.65E-01
	1112.02	9.60	8.35E-01		1.49E-01	3.67E-01
	1407.95	14.94	5.75E-01		2.24E-02	2.49E-01
GD-153	97.43	31.30	1.62E-01	1.62E-01	-1.44E-02	7.75E-02
	103.18	22.20	2.10E-01		-7.05E-02	1.00E-01
EU-154	123.07	40.50	1.04E-01	1.04E-01	-1.44E-02	4.91E-02
	723.30	19.70	2.96E-01		-1.03E-01	1.31E-01
	873.19	11.50	6.42E-01		2.38E-01	2.86E-01
	996.32	10.30	6.97E-01		1.19E-01	3.05E-01
	1004.76	17.90	5.28E-01		3.44E-01	2.39E-01
	1274.45	35.50	2.57E-01		5.60E-02	1.14E-01
EU-155	86.50	30.90	2.08E-01	2.08E-01	-6.14E-03	1.01E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-155	105.30		20.70	2.13E-01	2.08E-01	8.21E-02	1.01E-01
	EU-156	811.77		10.40	2.47E+00	2.47E+00	2.10E-01	1.09E+00
		1153.47		7.20	3.50E+00		-2.03E+00	1.48E+00
		1230.71		8.90	3.64E+00		6.89E-01	1.59E+00
	HO-166M	184.41		72.60	1.01E-01	1.01E-01	1.92E-01	4.89E-02
		280.45		29.60	1.73E-01		6.14E-03	8.08E-02
		410.94		11.10	5.73E-01		-5.55E-02	2.67E-01
		711.69		54.10	1.43E-01		1.06E-01	6.52E-02
	TM-171	66.72		0.14	4.74E+01	4.74E+01	-3.85E+01	2.29E+01
	HF-172	81.75		4.52	1.27E+00	4.09E-01	-4.50E-01	6.11E-01
		125.81		11.30	4.09E-01		3.27E-03	1.95E-01
	LU-172	181.53		20.60	5.33E+00	2.98E+00	3.04E-01	2.52E+00
		810.06		16.63	8.22E+00		-8.57E+00	3.60E+00
		912.12		15.25	1.51E+01		-2.16E+00	6.94E+00
		1093.66		62.50	2.98E+00		6.09E-01	1.32E+00
	LU-173	100.72		5.24	8.91E-01	2.60E-01	3.40E-01	4.25E-01
		272.11		21.20	2.60E-01		-4.82E-02	1.22E-01
	HF-175	343.40		84.00	8.25E-02	8.25E-02	2.04E-04	3.81E-02
	LU-176	88.34		13.30	4.75E-01	5.10E-02	2.16E-01	2.30E-01
		201.83		86.00	5.59E-02		-5.27E-03	2.64E-02
		306.78		94.00	5.10E-02		-2.32E-02	2.36E-02
	TA-182	67.75	*	41.20	4.02E-01	3.79E-01	9.08E-02	1.98E-01
		1121.30	*	34.90	3.79E-01		4.15E-01	1.73E-01
		1189.05		16.23	6.51E-01		1.45E-01	2.88E-01
		1221.41		26.98	4.09E-01		7.45E-02	1.81E-01
		1231.02		11.44	8.60E-01		1.63E-01	3.75E-01
+	IR-192	308.46		29.68	2.25E-01	2.25E-01	-1.65E-02	1.04E-01
		468.07	*	48.10	2.57E-01		1.03E-01	1.22E-01
	HG-203	279.19		77.30	1.10E-01	1.10E-01	2.92E-02	5.17E-02
	BI-207	569.67		97.72	6.49E-02	6.49E-02	-2.98E-02	2.96E-02
		1063.62		74.90	1.03E-01		1.15E-02	4.53E-02
	TL-208	583.14		30.22	3.20E-01	3.20E-01	4.61E-01	1.51E-01
		860.37		4.48	1.80E+00		4.09E-01	8.10E-01
		2614.66		35.85	3.58E-01		1.57E-01	1.57E-01
	BI-210M	262.00		45.00	1.14E-01	1.14E-01	4.05E-02	5.33E-02
		300.00		23.00	2.52E-01		1.13E-01	1.18E-01
	PB-210	46.50		4.25	2.16E+00	2.16E+00	5.44E-01	1.04E+00
	PB-211	404.84		2.90	1.71E+00	1.71E+00	-3.64E-01	7.82E-01
		831.96		2.90	2.34E+00		6.81E-01	1.04E+00
	BI-212	727.17		11.80	7.14E-01	7.14E-01	-5.83E-02	3.28E-01
		1620.62		2.75	1.58E+00		-1.28E+00	5.60E-01
+	PB-212	238.63	*	44.60	2.33E-01	2.33E-01	4.06E-01	1.13E-01
		300.09		3.41	1.70E+00		7.62E-01	7.97E-01
+	BI-214	609.31	*	46.30	1.97E-01	1.97E-01	7.68E-01	9.19E-02
		1120.29	*	15.10	7.29E-01		7.98E-01	3.33E-01
		1764.49	*	15.80	7.25E-01		6.65E-01	3.20E-01
		2204.22		4.98	1.84E+00		9.93E-01	7.70E-01
+	PB-214	295.21	*	19.19	4.41E-01	2.25E-01	9.18E-01	2.12E-01
		351.92	*	37.19	2.25E-01		8.33E-01	1.07E-01
	RN-219	401.80		6.50	8.07E-01	8.07E-01	2.16E-01	3.70E-01
	RA-223	323.87		3.88	1.38E+00	1.38E+00	-3.57E-03	6.43E-01
+	RA-224	240.98	*	3.95	2.58E+00	2.58E+00	1.69E+00	1.25E+00
	RA-225	40.00		31.00	1.37E+00	1.37E+00	3.40E-01	6.53E-01

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	RA-226	186.21	*	3.28	2.56E+00	2.56E+00	2.81E+00	1.24E+00
	TH-227	50.10		8.40	8.37E-01	4.80E-01	-1.08E+00	4.00E-01
		236.00		11.50	4.80E-01		-1.85E+00	2.27E-01
		256.20		6.30	8.07E-01		6.49E-02	3.78E-01
+	AC-228	338.32		11.40	5.49E-01	2.66E-01	3.17E-01	2.57E-01
		911.07	*	27.70	2.66E-01		2.64E-01	1.18E-01
		969.11	*	16.60	4.79E-01		4.48E-01	2.14E-01
	TH-230	48.44		16.90	4.92E-01	4.92E-01	2.68E-01	2.36E-01
		62.85		4.60	1.55E+00		1.34E+00	7.50E-01
		67.67		0.37	1.73E+01		7.75E+00	8.35E+00
	PA-231	283.67		1.60	2.89E+00	2.38E+00	-2.34E-01	1.34E+00
		302.67		2.30	2.38E+00		1.10E+00	1.11E+00
	TH-231	25.64		14.70	6.59E+00	9.06E-01	5.58E+00	3.20E+00
		84.21		6.40	9.06E-01		-1.53E+00	4.37E-01
	PA-233	311.98		38.60	3.01E-01	3.01E-01	1.58E-01	1.40E-01
	PA-234	131.20		20.40	2.22E-01	2.22E-01	-1.32E-01	1.06E-01
		733.99		8.80	8.30E-01		-4.35E-02	3.76E-01
		946.00		12.00	7.12E-01		3.21E-01	3.21E-01
	PA-234M	1001.03		0.92	7.58E+00	7.58E+00	2.22E-01	3.31E+00
	TH-234	63.29		3.80	1.89E+00	1.89E+00	1.76E+00	9.12E-01
	U-235	143.76		10.50	4.79E-01	4.79E-01	2.50E-01	2.29E-01
		163.35		4.70	9.93E-01		3.46E-01	4.71E-01
		205.31		4.70	1.09E+00		-2.86E-01	5.16E-01
	NP-237	86.50		12.60	5.04E-01	5.04E-01	-1.49E-02	2.44E-01
	NP-239	106.10		22.70	1.37E+03	1.37E+03	5.28E+02	6.52E+02
		228.18		10.70	3.49E+03		8.39E+02	1.65E+03
		277.60		14.10	2.69E+03		-4.81E+01	1.26E+03
	AM-241	59.54		35.90	1.67E-01	1.67E-01	-5.33E-02	7.99E-02
+	AM-243	74.67	*	66.00	2.03E-01	2.03E-01	1.31E-01	9.99E-02
	CM-243	209.75		3.29	1.58E+00	3.81E-01	4.12E-01	7.48E-01
		228.14		10.60	4.96E-01		1.19E-01	2.34E-01
		277.60		14.00	3.81E-01		-6.81E-03	1.79E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1506114-11

FEEBRIS1D-18.013-014

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-18.013-014

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	24	31	83	200	279	267
25:	46	34	30	32	24	33	29	32
33:	13	25	24	25	24	24	20	34
41:	33	29	26	43	29	41	73	40
49:	32	37	22	30	34	45	35	33
57:	22	32	35	51	30	32	52	131
65:	42	36	52	55	69	44	46	62
73:	35	55	105	99	92	139	43	50
81:	33	47	30	64	69	39	45	94
89:	53	58	48	58	180	99	43	35
97:	30	35	33	25	34	27	26	18
105:	26	34	27	30	20	21	35	38
113:	36	24	24	25	24	17	41	30
121:	23	31	17	22	20	27	30	31
129:	33	22	28	25	32	22	32	20
137:	31	23	24	23	24	27	25	31
145:	36	29	23	23	25	28	22	21
153:	30	31	34	25	17	10	22	27
161:	18	21	19	30	18	23	19	18
169:	10	16	19	20	18	19	24	29
177:	18	26	24	19	20	16	25	27
185:	31	108	60	27	21	21	22	21
193:	22	18	20	23	13	23	15	21
201:	20	12	22	17	22	29	18	17
209:	24	24	21	17	18	15	14	24
217:	18	18	13	14	19	9	15	14
225:	22	15	22	21	20	16	15	16
233:	17	19	13	23	18	27	122	60
241:	25	46	43	21	19	12	13	9
249:	11	15	6	11	14	13	15	20
257:	14	13	17	14	11	20	15	14
265:	10	9	14	13	17	18	18	13
273:	12	14	19	16	18	12	13	15
281:	19	9	11	16	8	9	7	8
289:	10	10	11	17	12	12	51	100
297:	18	16	10	17	15	21	9	11
305:	13	13	3	13	9	15	16	10
313:	11	11	9	5	9	15	16	15
321:	14	12	14	13	10	11	11	10
329:	7	7	10	13	17	10	7	7
337:	9	13	30	17	9	13	13	7
345:	4	13	8	7	8	10	33	130
353:	79	13	11	10	10	6	4	13
361:	6	8	13	8	13	6	11	6

369:	10	7	14	6	9	7	14	9

Sample Title: FEEBRIS1D-18.013-014

Channel								
377:	6	8	8	9	10	10	7	10
385:	3	11	7	7	10	7	10	8
393:	9	13	7	9	9	9	9	14
401:	4	8	5	10	4	6	11	11
409:	10	12	1	10	8	8	12	7
417:	8	5	8	13	4	9	10	10
425:	5	12	7	7	8	4	9	12
433:	9	7	5	9	3	7	7	7
441:	7	4	5	7	8	6	6	5
449:	4	5	12	5	6	6	6	9
457:	6	3	7	3	3	8	17	14
465:	6	6	8	17	9	4	6	5
473:	6	8	7	6	6	10	6	6
481:	5	5	6	7	12	5	7	3
489:	8	6	6	12	6	4	3	4
497:	6	3	5	6	5	2	6	4
505:	7	14	5	7	11	34	40	36
513:	19	5	10	3	9	7	6	5
521:	4	4	6	5	3	12	4	4
529:	2	3	7	4	1	4	7	8
537:	8	6	1	6	4	3	4	5
545:	5	4	5	4	5	2	5	4
553:	3	4	1	5	4	5	4	7
561:	4	7	6	5	2	7	4	4
569:	5	7	5	5	5	10	8	2
577:	3	4	4	5	7	8	29	19
585:	6	10	1	2	1	2	2	2
593:	6	9	6	9	7	9	3	0
601:	4	5	8	2	9	4	4	9
609:	74	94	16	6	3	5	6	10
617:	8	7	3	7	11	6	4	4
625:	4	2	3	3	5	3	1	1
633:	3	7	4	4	4	2	5	6
641:	3	5	5	7	4	5	3	2
649:	4	1	3	3	3	2	4	5
657:	5	3	5	6	9	6	6	8
665:	6	10	3	8	3	3	3	6
673:	4	1	2	5	3	5	4	4
681:	4	4	4	1	1	4	4	3
689:	2	5	3	4	2	5	6	6
697:	7	3	4	3	7	3	5	1
705:	3	3	2	2	5	6	2	6
713:	6	5	7	3	1	2	5	2
721:	1	7	1	5	2	1	9	12
729:	12	2	6	5	4	4	4	4
737:	4	5	2	3	4	6	7	2
745:	4	4	0	0	3	2	5	6
753:	7	2	2	6	7	2	2	5
761:	4	4	2	4	3	5	9	6
769:	13	7	4	2	4	3	3	5
777:	4	3	4	6	1	7	1	0
785:	5	7	1	3	0	5	2	4
793:	5	8	5	5	5	3	5	5

801:	2	7	7	5	8	6	5	2

Sample Title: FEEBRIS1D-18.013-014

Channel								
809:	2	2	3	1	2	4	6	1
817:	2	5	3	2	1	0	1	3
825:	2	3	4	0	3	2	6	3
833:	1	4	2	3	1	3	3	4
841:	2	5	3	2	3	4	1	6
849:	1	0	3	2	1	3	5	0
857:	3	1	3	3	11	5	3	3
865:	5	1	4	5	2	3	6	2
873:	5	2	1	4	1	1	0	1
881:	4	5	1	1	2	3	2	5
889:	4	2	3	3	4	6	2	2
897:	4	5	4	3	1	3	4	2
905:	8	0	5	3	4	6	12	16
913:	1	1	4	2	3	3	2	3
921:	3	2	3	2	1	3	6	2
929:	0	5	3	3	1	5	7	7
937:	1	4	5	0	4	1	1	5
945:	5	3	5	4	5	2	2	1
953:	2	1	3	1	4	3	3	3
961:	5	5	5	5	8	4	2	3
969:	16	6	4	1	4	1	1	3
977:	3	4	3	2	3	0	3	1
985:	2	0	0	2	1	2	2	3
993:	3	3	1	3	3	3	1	0
1001:	3	3	2	4	6	10	3	3
1009:	2	2	3	0	1	1	2	1
1017:	1	4	4	1	4	1	1	3
1025:	7	3	5	0	3	2	3	4
1033:	2	1	2	4	1	4	2	3
1041:	2	2	1	1	8	3	4	0
1049:	1	0	2	4	5	1	2	2
1057:	2	3	5	2	4	2	1	4
1065:	4	1	2	5	6	6	2	1
1073:	1	5	3	1	4	1	1	0
1081:	1	4	1	5	2	3	2	2
1089:	2	1	3	6	3	2	3	2
1097:	1	2	3	1	2	4	3	1
1105:	3	3	2	2	5	5	0	2
1113:	0	2	4	2	2	3	7	16
1121:	14	7	5	0	4	1	2	2
1129:	0	1	3	3	1	0	2	4
1137:	3	7	1	1	3	3	0	3
1145:	2	7	1	0	3	2	1	0
1153:	0	0	5	2	4	5	4	3
1161:	4	0	2	2	3	1	5	2
1169:	2	3	1	4	0	2	2	3
1177:	3	3	1	1	2	4	3	4
1185:	2	3	2	3	4	5	1	2
1193:	0	3	4	2	6	0	4	1
1201:	2	2	0	4	6	0	2	4
1209:	2	4	1	4	1	3	1	2
1217:	4	3	2	5	6	2	1	2
1225:	2	2	2	4	1	1	3	1

1233:	5	1	1	2	6	9	3	3

Sample Title: FEEBRIS1D-18.013-014

Channel								
1241:	0	0	1	2	1	5	2	2
1249:	2	2	1	1	5	4	5	2
1257:	4	1	0	1	1	1	1	2
1265:	3	0	2	1	3	1	3	2
1273:	1	7	0	3	3	1	3	3
1281:	2	3	2	1	3	1	0	1
1289:	2	2	1	2	1	3	1	0
1297:	5	3	3	2	2	3	2	0
1305:	3	0	0	0	0	2	1	2
1313:	0	0	3	0	1	1	0	0
1321:	3	0	1	5	1	1	3	1
1329:	1	2	5	0	1	1	1	2
1337:	2	2	1	0	1	0	1	1
1345:	2	0	1	3	2	2	3	0
1353:	3	1	0	1	1	2	1	0
1361:	1	0	3	1	2	0	3	0
1369:	3	1	2	3	3	2	1	1
1377:	1	6	2	4	1	4	2	2
1385:	3	0	3	2	0	1	3	1
1393:	1	2	2	2	1	2	1	1
1401:	1	2	1	1	2	3	1	2
1409:	3	1	2	4	1	3	1	0
1417:	1	2	0	1	1	2	2	1
1425:	0	2	4	2	2	0	0	3
1433:	1	2	0	1	5	1	2	1
1441:	0	2	1	2	3	0	2	0
1449:	2	0	0	1	1	1	2	1
1457:	1	0	14	40	44	23	4	3
1465:	1	2	1	1	1	1	1	2
1473:	0	1	1	1	2	0	0	1
1481:	0	5	0	1	1	1	1	1
1489:	0	1	0	1	1	1	0	1
1497:	0	3	0	1	2	3	0	1
1505:	2	1	0	3	4	2	2	0
1513:	5	1	2	3	1	1	0	1
1521:	0	1	5	0	2	1	2	2
1529:	1	0	1	2	1	1	2	0
1537:	0	2	1	2	2	1	0	2
1545:	1	0	0	2	1	1	0	0
1553:	2	0	1	2	0	2	1	1
1561:	1	1	1	0	0	2	1	3
1569:	1	0	0	0	1	0	0	0
1577:	1	2	1	0	2	0	1	2
1585:	1	3	3	2	1	2	3	3
1593:	2	0	0	0	0	1	2	1
1601:	1	1	0	2	2	2	1	1
1609:	1	1	0	4	0	0	1	0
1617:	0	0	0	2	0	0	0	3
1625:	1	2	1	0	0	5	0	0
1633:	1	0	0	0	2	2	1	1
1641:	1	1	0	1	1	2	0	1
1649:	0	1	1	0	0	4	0	0
1657:	0	0	1	2	1	1	0	1

: GOTTS

1665:	0	0	2	0	0	1	0	1

Sample Title: FEEBRIS1D-18.013-014

Channel								
1673:	2	0	1	1	1	0	1	1
1681:	1	1	0	1	1	0	1	1
1689:	0	2	0	0	0	0	0	0
1697:	2	0	1	3	1	1	1	1
1705:	1	0	2	0	0	0	1	0
1713:	1	1	0	0	0	0	3	1
1721:	0	0	0	1	1	0	0	2
1729:	2	2	3	0	1	1	1	0
1737:	0	2	1	0	1	1	2	0
1745:	0	0	0	1	0	1	1	0
1753:	0	0	0	2	0	2	2	0
1761:	0	2	6	14	8	2	0	1
1769:	0	4	0	2	0	0	1	2
1777:	0	2	1	0	0	1	0	0
1785:	2	1	2	1	1	1	1	1
1793:	1	1	0	2	0	0	0	0
1801:	3	1	0	0	0	1	0	0
1809:	3	0	3	0	0	2	2	1
1817:	1	0	0	0	1	1	0	0
1825:	0	0	1	0	0	0	1	0
1833:	1	1	1	0	0	0	1	0
1841:	0	0	0	0	1	2	2	1
1849:	0	0	0	0	1	1	1	1
1857:	0	2	0	0	2	0	0	0
1865:	1	0	0	0	2	0	1	1
1873:	1	1	0	0	0	1	0	1
1881:	0	1	0	2	2	0	0	3
1889:	0	0	0	0	0	1	0	0
1897:	2	0	0	1	0	1	0	1
1905:	1	0	0	0	0	0	0	0
1913:	1	0	1	0	2	0	0	2
1921:	0	1	1	0	2	1	1	0
1929:	1	0	1	0	3	3	0	0
1937:	1	0	0	3	0	1	2	1
1945:	0	1	2	0	1	0	0	0
1953:	1	1	0	0	0	1	0	3
1961:	2	0	0	0	0	2	1	1
1969:	0	0	0	1	0	0	0	0
1977:	0	0	1	0	0	0	0	0
1985:	1	0	2	2	0	0	0	0
1993:	2	0	0	0	0	1	2	1
2001:	1	2	0	1	0	0	0	1
2009:	1	1	2	0	0	0	0	0
2017:	1	1	0	0	0	0	0	0
2025:	0	0	1	2	0	0	0	0
2033:	1	2	1	1	0	0	0	0
2041:	1	0	0	0	0	0	0	0
2049:	0	0	1	0	0	1	1	1
2057:	1	1	0	1	1	0	0	0
2065:	0	0	0	4	1	0	0	0
2073:	1	0	1	0	0	0	1	0
2081:	0	0	0	0	0	0	0	2
2089:	0	0	0	1	2	0	1	0

2097:	1	0	0	0	1	1	3	1

Sample Title: FEEBRIS1D-18.013-014

Channel								
2105:	1	0	0	0	0	0	1	0
2113:	0	1	2	1	1	3	1	1
2121:	0	0	0	0	1	0	1	1
2129:	0	1	0	0	0	0	1	0
2137:	1	0	0	0	1	0	0	0
2145:	1	0	0	0	0	0	1	0
2153:	0	0	0	0	0	2	0	0
2161:	1	0	1	0	1	1	0	0
2169:	0	1	2	0	0	0	0	0
2177:	1	0	1	0	0	0	0	1
2185:	1	0	1	0	0	1	0	1
2193:	0	1	0	0	1	0	0	2
2201:	1	0	1	3	1	1	0	0
2209:	0	0	0	0	0	0	0	1
2217:	1	1	0	0	1	0	1	0
2225:	0	0	0	0	0	0	0	0
2233:	0	0	0	0	0	0	1	0
2241:	0	1	0	0	0	0	0	1
2249:	0	0	0	0	0	0	1	1
2257:	0	0	1	0	0	1	0	0
2265:	2	1	0	0	1	0	0	0
2273:	0	0	0	0	1	0	1	1
2281:	1	0	1	0	1	1	0	0
2289:	0	1	1	1	1	0	0	1
2297:	1	0	1	1	1	0	1	1
2305:	0	1	0	0	0	0	0	1
2313:	0	1	0	0	0	0	0	0
2321:	0	0	1	1	0	1	0	0
2329:	2	0	0	1	0	0	1	0
2337:	0	1	0	2	0	0	3	0
2345:	1	0	0	0	0	0	0	0
2353:	0	1	1	1	2	0	1	0
2361:	0	0	0	0	0	0	1	1
2369:	0	0	0	0	0	0	0	0
2377:	0	1	1	0	0	0	1	0
2385:	0	1	1	1	0	2	0	0
2393:	1	0	0	0	2	0	1	0
2401:	1	0	0	1	2	1	1	0
2409:	0	1	0	0	0	0	1	1
2417:	0	0	0	2	0	0	2	0
2425:	0	0	1	0	0	0	0	1
2433:	2	0	0	0	0	0	0	0
2441:	0	0	1	0	3	1	2	0
2449:	0	0	0	0	0	2	0	1
2457:	0	0	0	0	1	0	0	1
2465:	0	0	0	1	1	1	1	1
2473:	0	0	0	0	0	1	0	1
2481:	0	1	0	0	1	1	0	0
2489:	0	1	0	0	0	0	2	0
2497:	0	0	0	0	1	0	0	0
2505:	0	0	0	0	0	1	0	2
2513:	1	0	0	0	0	0	0	0
2521:	0	0	0	1	0	1	0	0

2529:	0	0	0	2	0	1	0	0

Sample Title: FEEBRIS1D-18.013-014

Channel								
2537:	0	0	0	0	1	1	0	0
2545:	0	0	0	1	0	0	0	0
2553:	0	0	1	1	0	0	1	0
2561:	0	2	1	0	1	0	0	0
2569:	1	0	1	0	0	0	2	0
2577:	1	2	0	1	0	1	0	0
2585:	0	1	0	1	0	0	0	0
2593:	0	0	0	0	0	1	0	1
2601:	0	0	0	0	1	0	2	0
2609:	2	2	1	2	6	3	2	1
2617:	1	0	0	1	1	0	0	0
2625:	0	0	0	0	1	0	0	0
2633:	0	0	0	0	1	0	0	1
2641:	0	0	0	1	0	1	1	0
2649:	1	0	0	0	0	0	0	0
2657:	0	0	0	0	0	0	0	0
2665:	1	0	0	0	1	1	0	0
2673:	0	0	0	1	0	1	0	0
2681:	0	1	0	1	0	0	1	0
2689:	0	1	1	0	0	0	0	0
2697:	1	0	0	0	0	0	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	1	0
2721:	0	0	0	0	0	0	0	1
2729:	0	0	0	0	0	0	0	1
2737:	0	0	0	0	0	0	0	0
2745:	0	0	0	1	1	0	0	0
2753:	0	0	0	1	0	0	0	1
2761:	0	1	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	1	0	1	1	0
2785:	0	1	0	0	0	0	0	0
2793:	0	0	0	0	0	1	0	0
2801:	0	0	0	0	0	0	0	1
2809:	0	0	0	0	0	0	1	0
2817:	0	0	2	0	0	1	0	0
2825:	0	0	0	0	0	0	1	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	1	0	0	0
2849:	1	2	0	0	0	0	0	0
2857:	0	0	0	0	0	0	1	0
2865:	0	0	1	0	0	0	1	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	0	0	1	0	0
2889:	0	0	0	0	0	0	1	0
2897:	1	0	0	1	0	0	1	1
2905:	1	0	0	0	0	1	0	0
2913:	0	0	1	0	0	0	0	0
2921:	0	0	0	0	0	0	0	1
2929:	0	0	0	1	0	0	0	0
2937:	1	0	0	0	0	0	1	0
2945:	0	0	0	0	0	0	0	0
2953:	1	0	0	0	0	0	1	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-18.013-014

Channel								
2969:	0	0	1	0	0	0	0	0
2977:	0	0	1	0	0	0	1	0
2985:	1	0	0	1	1	0	0	0
2993:	0	1	1	0	0	0	0	0
3001:	0	0	2	1	0	1	0	0
3009:	0	1	1	0	0	0	0	0
3017:	0	0	0	1	0	0	1	0
3025:	0	0	1	0	0	0	0	0
3033:	0	1	0	1	1	0	0	0
3041:	1	0	2	0	0	0	2	0
3049:	0	0	1	0	0	0	1	0
3057:	0	2	0	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	1	0	0	0
3081:	0	0	0	0	0	0	0	1
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	1	0	0	0
3121:	1	1	0	0	1	0	0	0
3129:	0	0	0	0	1	0	0	2
3137:	0	0	1	0	0	0	0	0
3145:	0	0	0	0	0	0	1	0
3153:	0	0	0	0	1	0	0	0
3161:	2	0	0	1	0	0	0	0
3169:	0	0	0	0	1	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	1	0	0	0
3193:	0	0	0	1	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	1	0	0	0	1	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	1	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	1	1	0	1	0
3249:	0	0	1	0	0	0	1	0
3257:	0	0	0	0	0	0	0	0
3265:	0	1	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	1	0	0	0	1	0	1	0
3297:	0	0	0	1	1	0	1	0
3305:	0	0	0	1	0	0	1	0
3313:	0	2	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	1	0	0	0	0	1	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	1	1	0	0
3353:	0	0	1	0	0	0	0	0
3361:	0	0	1	0	0	0	0	1
3369:	0	1	0	0	1	1	0	0
3377:	0	1	0	0	1	0	0	0
3385:	0	0	0	0	0	0	1	1

3393:	0	1	0	0	0	0	1	0

Sample Title: FEEBRIS1D-18.013-014

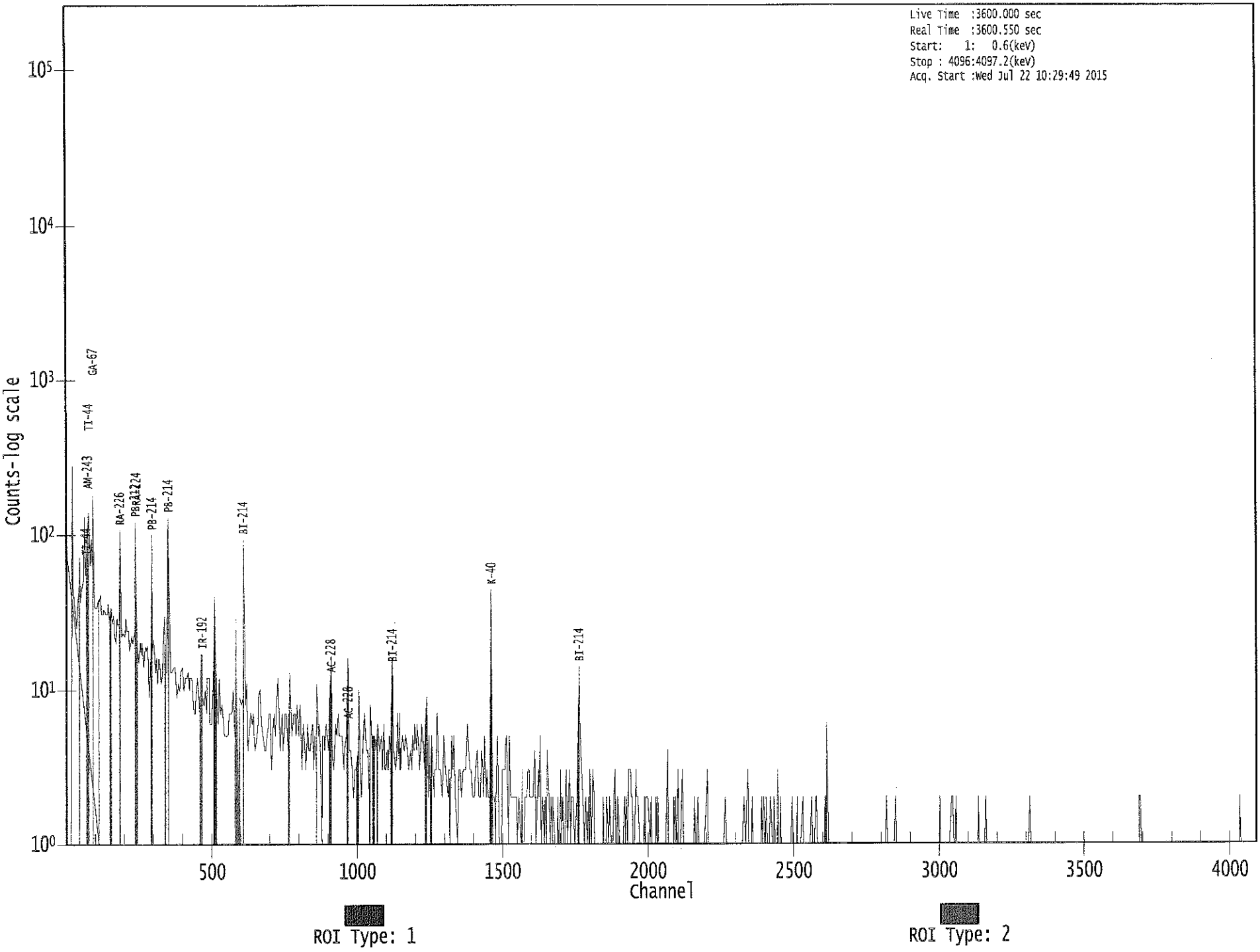
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	1	0	0	1	0
3417:	0	0	0	0	0	0	0	0
3425:	1	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	1
3441:	0	0	0	0	0	0	0	0
3449:	0	0	1	0	0	1	0	0
3457:	0	0	0	0	0	1	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	1	0	0	0
3497:	0	0	0	0	0	0	1	0
3505:	0	0	1	0	0	0	0	0
3513:	0	1	0	0	0	0	1	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	1	0	0	0
3545:	1	0	0	0	1	0	1	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	1	0	0	0	1	0	0
3577:	0	0	1	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	1	0	0	0	0
3601:	0	0	0	1	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	1	0	0	0	0	0	0	0
3649:	0	0	0	0	0	1	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	1	0	0	0	0	0
3673:	0	0	0	0	0	0	1	0
3681:	0	0	0	0	0	0	0	0
3689:	2	1	1	0	2	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	1	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	1	0	0	0	0	0	0
3769:	1	0	0	0	0	0	0	1
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	1	1	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-18.013-014

Channel								
3833:	0	0	0	0	0	1	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	1	0	0	0	0
3857:	0	0	0	1	0	0	0	1
3865:	0	0	0	0	0	0	0	1
3873:	1	1	0	0	0	0	1	0
3881:	0	0	0	0	1	0	0	0
3889:	0	1	1	1	0	1	0	1
3897:	0	1	0	0	0	0	0	0
3905:	1	0	0	0	0	0	0	0
3913:	0	0	1	1	0	0	0	0
3921:	1	0	0	0	0	0	1	0
3929:	1	0	0	0	0	0	0	0
3937:	0	1	0	0	1	0	0	0
3945:	0	0	0	0	0	0	1	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	1	1	0	0	0
3993:	0	0	0	1	0	0	0	1
4001:	0	1	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	1	0	0	0	0
4033:	0	0	2	0	1	1	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	1	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	1
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000024981.CNF



Apex-Gamma

Analysis Report for 1506114-12
FEEBRIS1D-18.038-041

7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-12
Sample Description	: FEEBRIS1D-18.038-041
Sample Type	: SOIL
Sample Size	: 1.758E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:41:26AM
Acquisition Started	: 7/22/2015 10:29:56AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24982

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 11:30:11AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	13.77	13.90	0.0000	0.00
2	46.28	46.39	0.0000	0.00
3	76.14	76.23	0.0000	0.00
4	205.98	205.99	0.0000	0.00
5	277.64	277.62	0.0000	0.00
6	295.53	295.49	0.0000	0.00
7	352.06	351.99	0.0000	0.00
8	482.06	481.93	0.0000	0.00
9	609.27	609.08	0.0000	0.00
10	616.02	615.83	0.0000	0.00
11	656.30	656.08	0.0000	0.00
12	679.22	679.00	0.0000	0.00
13	768.10	767.84	0.0000	0.00
14	802.81	802.53	0.0000	0.00
15	818.47	818.18	0.0000	0.00
16	827.11	826.82	0.0000	0.00
17	911.20	910.87	0.0000	0.00
18	965.27	964.92	0.0000	0.00
19	1117.62	1117.21	0.0000	0.00
20	1121.20	1120.79	0.0000	0.00
21	1155.86	1155.44	0.0000	0.00
22	1173.68	1173.25	0.0000	0.00
23	1182.80	1182.37	0.0000	0.00
24	1271.24	1270.78	0.0000	0.00
25	1305.59	1305.11	0.0000	0.00
26	1348.51	1348.03	0.0000	0.00
27	1358.42	1357.93	0.0000	0.00
28	1377.60	1377.10	0.0000	0.00
29	1402.22	1401.71	0.0000	0.00
30	1461.01	1460.49	0.0000	0.00
31	1468.64	1468.12	0.0000	0.00
32	1544.21	1543.67	0.0000	0.00
33	1731.26	1730.67	0.0000	0.00
34	1764.46	1763.86	0.0000	0.00
35	1779.61	1779.00	0.0000	0.00
36	1838.12	1837.50	0.0000	0.00
37	2614.20	2613.45	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:30:11AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	13.77	12 -	17	13.90	1.65E+03	156.20	2.85E+03	1.15
	2	46.28	43 -	50	46.39	1.45E+02	82.37	1.04E+03	1.59
	3	76.14	73 -	79	76.23	1.07E+02	45.27	2.96E+02	3.49
	4	205.98	201 -	210	205.99	3.54E+01	44.27	2.59E+02	1.88
	5	277.64	275 -	281	277.62	2.49E+01	27.36	1.16E+02	1.14
	6	295.53	292 -	299	295.49	5.66E+01	35.72	1.73E+02	1.43
	7	352.06	348 -	355	351.99	8.62E+01	31.43	1.06E+02	1.35
	8	482.06	476 -	489	481.93	3.32E+01	28.48	6.96E+01	8.78
M	9	609.27	603 -	619	609.08	6.91E+01	22.14	3.09E+01	1.87
m	10	616.02	603 -	619	615.83	1.05E+01	13.93	1.43E+01	1.88
	11	656.30	654 -	658	656.08	9.00E+00	10.76	1.80E+01	2.68
	12	679.22	675 -	681	679.00	1.07E+01	13.93	2.67E+01	1.60
	13	768.10	763 -	772	767.84	1.95E+01	15.78	2.30E+01	6.34
	14	802.81	798 -	805	802.53	1.32E+01	14.00	2.37E+01	2.76
	15	818.47	816 -	821	818.18	1.09E+01	10.82	1.41E+01	2.95
	16	827.11	823 -	830	826.82	1.42E+01	13.11	1.77E+01	2.41
	17	911.20	906 -	918	910.87	2.52E+01	19.47	3.36E+01	5.54
M	18	965.27	961 -	972	964.92	1.14E+01	14.74	2.33E+01	2.91
M	19	1117.62	1116 -	1123	1117.21	7.37E+00	6.08	3.81E+00	2.31
m	20	1121.20	1116 -	1123	1120.79	1.46E+01	12.53	1.55E+01	2.31
	21	1155.86	1152 -	1158	1155.44	1.25E+01	9.41	7.00E+00	3.25
	22	1173.68	1171 -	1176	1173.25	1.20E+01	6.93	0.00E+00	3.36
	23	1182.80	1178 -	1188	1182.37	1.33E+01	13.37	1.74E+01	4.44
	24	1271.24	1267 -	1274	1270.78	9.00E+00	6.00	0.00E+00	2.92
	25	1305.59	1303 -	1307	1305.11	4.58E+00	5.50	2.83E+00	1.84
	26	1348.51	1344 -	1352	1348.03	1.03E+01	9.82	7.43E+00	3.59
	27	1358.42	1355 -	1360	1357.93	5.50E+00	6.08	3.00E+00	1.19
	28	1377.60	1371 -	1384	1377.10	2.32E+01	12.53	7.59E+00	3.95
	29	1402.22	1398 -	1404	1401.71	7.00E+00	5.29	0.00E+00	3.31
	30	1461.01	1456 -	1464	1460.49	3.28E+01	12.66	4.46E+00	2.86
	31	1468.64	1465 -	1471	1468.12	8.50E+00	8.51	7.00E+00	2.69
	32	1544.21	1542 -	1545	1543.67	6.00E+00	4.90	0.00E+00	1.47
	33	1731.26	1726 -	1734	1730.67	9.00E+00	6.00	0.00E+00	2.88
	34	1764.46	1760 -	1767	1763.86	1.40E+01	7.48	0.00E+00	1.84
	35	1779.61	1775 -	1781	1779.00	5.00E+00	4.47	0.00E+00	2.98
	36	1838.12	1833 -	1840	1837.50	5.94E+00	6.93	4.13E+00	1.91
	37	2614.20	2609 -	2616	2613.45	1.10E+01	6.63	0.00E+00	2.07

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:30:11AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	13.77	12 -	17	1.65E+03	156.20	2.85E+03	1.10E+02
	2	46.28	43 -	50	1.45E+02	82.37	1.04E+03	6.47E+01
	3	76.14	73 -	79	1.07E+02	45.27	2.96E+02	3.31E+01
	4	205.98	201 -	210	3.54E+01	44.27	2.59E+02	3.51E+01
	5	277.64	275 -	281	2.49E+01	27.36	1.16E+02	2.09E+01
	6	295.53	292 -	299	5.66E+01	35.72	1.73E+02	2.66E+01
	7	352.06	348 -	355	8.62E+01	31.43	1.06E+02	2.08E+01
	8	482.06	476 -	489	3.32E+01	28.48	6.96E+01	2.14E+01
M	9	609.27	603 -	619	6.91E+01	22.14	3.09E+01	9.13E+00
m	10	616.02	603 -	619	1.05E+01	13.93	1.43E+01	6.21E+00
	11	656.30	654 -	658	9.00E+00	10.76	1.80E+01	7.34E+00
	12	679.22	675 -	681	1.07E+01	13.93	2.67E+01	1.01E+01
	13	768.10	763 -	772	1.95E+01	15.78	2.30E+01	1.07E+01
	14	802.81	798 -	805	1.32E+01	14.00	2.37E+01	9.84E+00
	15	818.47	816 -	821	1.09E+01	10.82	1.41E+01	7.03E+00
	16	827.11	823 -	830	1.42E+01	13.11	1.77E+01	8.83E+00
	17	911.20	906 -	918	2.52E+01	19.47	3.36E+01	1.37E+01
M	18	965.27	961 -	972	1.14E+01	14.74	2.33E+01	7.93E+00
M	19	1117.62	1116 -	1123	7.37E+00	6.08	3.81E+00	3.21E+00
m	20	1121.20	1116 -	1123	1.46E+01	12.53	1.55E+01	6.48E+00
	21	1155.86	1152 -	1158	1.25E+01	9.41	7.00E+00	5.10E+00
	22	1173.68	1171 -	1176	1.20E+01	6.93	0.00E+00	0.00E+00
	23	1182.80	1178 -	1188	1.33E+01	13.37	1.74E+01	9.21E+00
	24	1271.24	1267 -	1274	9.00E+00	6.00	0.00E+00	0.00E+00
	25	1305.59	1303 -	1307	4.58E+00	5.50	2.83E+00	2.84E+00
	26	1348.51	1344 -	1352	1.03E+01	9.82	7.43E+00	6.12E+00
	27	1358.42	1355 -	1360	5.50E+00	6.08	3.00E+00	3.18E+00
	28	1377.60	1371 -	1384	2.32E+01	12.53	7.59E+00	6.59E+00
	29	1402.22	1398 -	1404	7.00E+00	5.29	0.00E+00	0.00E+00
	30	1461.01	1456 -	1464	3.28E+01	12.66	4.46E+00	4.44E+00
	31	1468.64	1465 -	1471	8.50E+00	8.51	7.00E+00	5.10E+00

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1544.21	1542 -	1545	6.00E+00	4.90	0.00E+00	0.00E+00
33	1731.26	1726 -	1734	9.00E+00	6.00	0.00E+00	0.00E+00
34	1764.46	1760 -	1767	1.40E+01	7.48	0.00E+00	0.00E+00
35	1779.61	1775 -	1781	5.00E+00	4.47	0.00E+00	0.00E+00
36	1838.12	1833 -	1840	5.94E+00	6.93	4.13E+00	4.05E+00
37	2614.20	2609 -	2616	1.10E+01	6.63	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 11:30:11AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	13.77	12 -	17	13.90	1.65E+03	156.20	2.85E+03	.....
	2	46.28	43 -	50	46.39	1.45E+02	82.37	1.04E+03	PB-210
	3	76.14	73 -	79	76.23	1.07E+02	45.27	2.96E+02	.....
	4	205.98	201 -	210	205.99	3.54E+01	44.27	2.59E+02	U-235
	5	277.64	275 -	281	277.62	2.49E+01	27.36	1.16E+02	CM-243 NP-239
	6	295.53	292 -	299	295.49	5.66E+01	35.72	1.73E+02	PB-214
	7	352.06	348 -	355	351.99	8.62E+01	31.43	1.06E+02	PB-214
	8	482.06	476 -	489	481.93	3.32E+01	28.48	6.96E+01	.....
M	9	609.27	603 -	619	609.08	6.91E+01	22.14	3.09E+01	BI-214
m	10	616.02	603 -	619	615.83	1.05E+01	13.93	1.43E+01	.....
	11	656.30	654 -	658	656.08	9.00E+00	10.76	1.80E+01	.....
	12	679.22	675 -	681	679.00	1.07E+01	13.93	2.67E+01	.....
	13	768.10	763 -	772	767.84	1.95E+01	15.78	2.30E+01	.....
	14	802.81	798 -	805	802.53	1.32E+01	14.00	2.37E+01	CS-134
	15	818.47	816 -	821	818.18	1.09E+01	10.82	1.41E+01	CS-136
	16	827.11	823 -	830	826.82	1.42E+01	13.11	1.77E+01	.....
	17	911.20	906 -	918	910.87	2.52E+01	19.47	3.36E+01	AC-228 LU-172
M	18	965.27	961 -	972	964.92	1.14E+01	14.74	2.33E+01	.....

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	19	1117.62	1116 -	1123	1117.21	7.37E+00	6.08	3.81E+00	.....
m	20	1121.20	1116 -	1123	1120.79	1.46E+01	12.53	1.55E+01	TA-182 SC-46 BI-214
	21	1155.86	1152 -	1158	1155.44	1.25E+01	9.41	7.00E+00	.....
	22	1173.68	1171 -	1176	1173.25	1.20E+01	6.93	0.00E+00	CO-60
	23	1182.80	1178 -	1188	1182.37	1.33E+01	13.37	1.74E+01	.....
	24	1271.24	1267 -	1274	1270.78	9.00E+00	6.00	0.00E+00	.....
	25	1305.59	1303 -	1307	1305.11	4.58E+00	5.50	2.83E+00	.....
	26	1348.51	1344 -	1352	1348.03	1.03E+01	9.82	7.43E+00	.....
	27	1358.42	1355 -	1360	1357.93	5.50E+00	6.08	3.00E+00	.....
	28	1377.60	1371 -	1384	1377.10	2.32E+01	12.53	7.59E+00	.....
	29	1402.22	1398 -	1404	1401.71	7.00E+00	5.29	0.00E+00	.....
	30	1461.01	1456 -	1464	1460.49	3.28E+01	12.66	4.46E+00	K-40
	31	1468.64	1465 -	1471	1468.12	8.50E+00	8.51	7.00E+00	.....
	32	1544.21	1542 -	1545	1543.67	6.00E+00	4.90	0.00E+00	.....
	33	1731.26	1726 -	1734	1730.67	9.00E+00	6.00	0.00E+00	.....
	34	1764.46	1760 -	1767	1763.86	1.40E+01	7.48	0.00E+00	BI-214
	35	1779.61	1775 -	1781	1779.00	5.00E+00	4.47	0.00E+00	.....
	36	1838.12	1833 -	1840	1837.50	5.94E+00	6.93	4.13E+00	.....
	37	2614.20	2609 -	2616	2613.45	1.10E+01	6.63	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 11:30:11AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	13.77	1.65E+03	156.20	8.24E-08	1.68E-03
	2	46.28	1.45E+02	82.37	1.32E-02	1.68E-03
	3	76.14	1.07E+02	45.27	2.74E-02	3.33E-03
	4	205.98	3.54E+01	44.27	1.97E-02	1.63E-03
	5	277.64	2.49E+01	27.36	1.61E-02	1.56E-03
	6	295.53	5.66E+01	35.72	1.55E-02	1.48E-03
	7	352.06	8.62E+01	31.43	1.37E-02	1.21E-03
	8	482.06	3.32E+01	28.48	1.10E-02	9.28E-04
M	9	609.27	6.91E+01	22.14	9.27E-03	7.98E-04

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	10	616.02	1.05E+01	13.93	9.19E-03	7.92E-04
	11	656.30	9.00E+00	10.76	8.76E-03	7.51E-04
	12	679.22	1.07E+01	13.93	8.53E-03	7.34E-04
	13	768.10	1.95E+01	15.78	7.74E-03	6.77E-04
	14	802.81	1.32E+01	14.00	7.47E-03	6.54E-04
	15	818.47	1.09E+01	10.82	7.36E-03	6.44E-04
	16	827.11	1.42E+01	13.11	7.30E-03	6.39E-04
	17	911.20	2.52E+01	19.47	6.75E-03	5.87E-04
M	18	965.27	1.14E+01	14.74	6.44E-03	5.59E-04
M	19	1117.62	7.37E+00	6.08	5.71E-03	4.81E-04
m	20	1121.20	1.46E+01	12.53	5.70E-03	4.79E-04
	21	1155.86	1.25E+01	9.41	5.56E-03	4.62E-04
	22	1173.68	1.20E+01	6.93	5.50E-03	4.53E-04
	23	1182.80	1.33E+01	13.37	5.46E-03	4.57E-04
	24	1271.24	9.00E+00	6.00	5.17E-03	4.98E-04
	25	1305.59	4.58E+00	5.50	5.06E-03	5.14E-04
	26	1348.51	1.03E+01	9.82	4.94E-03	5.20E-04
	27	1358.42	5.50E+00	6.08	4.92E-03	5.16E-04
	28	1377.60	2.32E+01	12.53	4.87E-03	5.08E-04
	29	1402.22	7.00E+00	5.29	4.81E-03	4.98E-04
	30	1461.01	3.28E+01	12.66	4.67E-03	4.73E-04
	31	1468.64	8.50E+00	8.51	4.66E-03	4.70E-04
	32	1544.21	6.00E+00	4.90	4.51E-03	4.39E-04
	33	1731.26	9.00E+00	6.00	4.22E-03	3.61E-04
	34	1764.46	1.40E+01	7.48	4.19E-03	3.48E-04
	35	1779.61	5.00E+00	4.47	4.17E-03	3.41E-04
	36	1838.12	5.94E+00	6.93	4.11E-03	3.18E-04
	37	2614.20	1.10E+01	6.63	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 11:30:11AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	13.77	1.65E+03	156.20	1.24E+03	4.65E+01	4.17E+02	1.63E+02
2	46.28	1.45E+02	82.37	5.47E+01	1.18E+01	9.08E+01	8.32E+01

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	3	76.14	1.07E+02	45.27			1.07E+02	4.53E+01
	4	205.98	3.54E+01	44.27			3.54E+01	4.43E+01
	5	277.64	2.49E+01	27.36			2.49E+01	2.74E+01
	6	295.53	5.66E+01	35.72	1.30E+01	5.93E+00	4.35E+01	3.62E+01
	7	352.06	8.62E+01	31.43	1.67E+01	5.59E+00	6.95E+01	3.19E+01
	8	482.06	3.32E+01	28.48			3.32E+01	2.85E+01
M	9	609.27	6.91E+01	22.14	1.77E+01	8.73E+00	5.14E+01	2.38E+01
m	10	616.02	1.05E+01	13.93			1.05E+01	1.39E+01
	11	656.30	9.00E+00	10.76			9.00E+00	1.08E+01
	12	679.22	1.07E+01	13.93			1.07E+01	1.39E+01
	13	768.10	1.95E+01	15.78			1.95E+01	1.58E+01
	14	802.81	1.32E+01	14.00	2.00E+00	2.95E+00	1.12E+01	1.43E+01
	15	818.47	1.09E+01	10.82			1.09E+01	1.08E+01
	16	827.11	1.42E+01	13.11			1.42E+01	1.31E+01
	17	911.20	2.52E+01	19.47	3.66E+00	2.67E+00	2.15E+01	1.97E+01
M	18	965.27	1.14E+01	14.74			1.14E+01	1.47E+01
M	19	1117.62	7.37E+00	6.08			7.37E+00	6.08E+00
m	20	1121.20	1.46E+01	12.53	5.40E+00	2.54E+00	9.15E+00	1.28E+01
	21	1155.86	1.25E+01	9.41			1.25E+01	9.41E+00
	22	1173.68	1.20E+01	6.93	4.88E+00	2.80E+00	7.12E+00	7.47E+00
	23	1182.80	1.33E+01	13.37			1.33E+01	1.34E+01
	24	1271.24	9.00E+00	6.00			9.00E+00	6.00E+00
	25	1305.59	4.58E+00	5.50			4.58E+00	5.50E+00
	26	1348.51	1.03E+01	9.82			1.03E+01	9.82E+00
	27	1358.42	5.50E+00	6.08			5.50E+00	6.08E+00
	28	1377.60	2.32E+01	12.53			2.32E+01	1.25E+01
	29	1402.22	7.00E+00	5.29			7.00E+00	5.29E+00
	30	1461.01	3.28E+01	12.66	1.02E+01	2.32E+00	2.26E+01	1.29E+01
	31	1468.64	8.50E+00	8.51			8.50E+00	8.51E+00
	32	1544.21	6.00E+00	4.90			6.00E+00	4.90E+00
	33	1731.26	9.00E+00	6.00			9.00E+00	6.00E+00
	34	1764.46	1.40E+01	7.48	4.45E+00	2.04E+00	9.55E+00	7.76E+00
	35	1779.61	5.00E+00	4.47			5.00E+00	4.47E+00
	36	1838.12	5.94E+00	6.93			5.94E+00	6.93E+00
	37	2614.20	1.10E+01	6.63	6.29E+00	1.69E+00	4.71E+00	6.84E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 11:30:11AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	13.77	1.65E+03	156.20	1.24E+03	4.65E+01	4.17E+02	1.63E+02
	2	46.28	1.45E+02	82.37	5.47E+01	1.18E+01	9.08E+01	8.32E+01
	3	76.14	1.07E+02	45.27			1.07E+02	4.53E+01
	4	205.98	3.54E+01	44.27			3.54E+01	4.43E+01
	5	277.64	2.49E+01	27.36			2.49E+01	2.74E+01
	6	295.53	5.66E+01	35.72	1.30E+01	5.93E+00	4.35E+01	3.62E+01
	7	352.06	8.62E+01	31.43	1.67E+01	5.59E+00	6.95E+01	3.19E+01
	8	482.06	3.32E+01	28.48			3.32E+01	2.85E+01
M	9	609.27	6.91E+01	22.14	1.77E+01	8.73E+00	5.14E+01	2.38E+01
m	10	616.02	1.05E+01	13.93			1.05E+01	1.39E+01
	11	656.30	9.00E+00	10.76			9.00E+00	1.08E+01
	12	679.22	1.07E+01	13.93			1.07E+01	1.39E+01
	13	768.10	1.95E+01	15.78			1.95E+01	1.58E+01
	14	802.81	1.32E+01	14.00	2.00E+00	2.95E+00	1.12E+01	1.43E+01
	15	818.47	1.09E+01	10.82			1.09E+01	1.08E+01
	16	827.11	1.42E+01	13.11			1.42E+01	1.31E+01
	17	911.20	2.52E+01	19.47	3.66E+00	2.67E+00	2.15E+01	1.97E+01
M	18	965.27	1.14E+01	14.74			1.14E+01	1.47E+01
M	19	1117.62	7.37E+00	6.08			7.37E+00	6.08E+00
m	20	1121.20	1.46E+01	12.53	5.40E+00	2.54E+00	9.15E+00	1.28E+01
	21	1155.86	1.25E+01	9.41			1.25E+01	9.41E+00
	22	1173.68	1.20E+01	6.93	4.88E+00	2.80E+00	7.12E+00	7.47E+00
	23	1182.80	1.33E+01	13.37			1.33E+01	1.34E+01
	24	1271.24	9.00E+00	6.00			9.00E+00	6.00E+00
	25	1305.59	4.58E+00	5.50			4.58E+00	5.50E+00
	26	1348.51	1.03E+01	9.82			1.03E+01	9.82E+00
	27	1358.42	5.50E+00	6.08			5.50E+00	6.08E+00
	28	1377.60	2.32E+01	12.53			2.32E+01	1.25E+01
	29	1402.22	7.00E+00	5.29			7.00E+00	5.29E+00
	30	1461.01	3.28E+01	12.66	1.02E+01	2.32E+00	2.26E+01	1.29E+01
	31	1468.64	8.50E+00	8.51			8.50E+00	8.51E+00
	32	1544.21	6.00E+00	4.90			6.00E+00	4.90E+00
	33	1731.26	9.00E+00	6.00			9.00E+00	6.00E+00
	34	1764.46	1.40E+01	7.48	4.45E+00	2.04E+00	9.55E+00	7.76E+00
	35	1779.61	5.00E+00	4.47			5.00E+00	4.47E+00
	36	1838.12	5.94E+00	6.93			5.94E+00	6.93E+00
	37	2614.20	1.10E+01	6.63	6.29E+00	1.69E+00	4.71E+00	6.84E+00

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.993	1460.81	*	10.67	1.93E+00	1.12E+00
PB-210	0.992	46.50	*	4.25	6.93E+00	6.41E+00
BI-214	0.904	609.31	*	46.30	5.11E-01	2.41E-01
		1120.29	*	15.10	4.54E-01	6.36E-01
		1764.49	*	15.80	6.17E-01	5.04E-01
		2204.22		4.98		
PB-214	0.993	295.21	*	19.19	6.27E-01	5.25E-01
		351.92	*	37.19	5.82E-01	2.72E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:30:11AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	13.77	1.15905E-01	19.53		
3	76.14	2.97239E-02	21.15		

Analysis Report for 1506114-12

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	4	205.98	9.82323E-03	62.60	Tol.	U-235
	5	277.64	6.92604E-03	54.86	Tol.	NP-239 CM-243
	8	482.06	9.21569E-03	42.92		
m	10	616.02	2.92510E-03	66.13		
	11	656.30	2.50000E-03	59.77	Sum	
	12	679.22	2.96296E-03	65.29		
	13	768.10	5.42115E-03	40.43		
	14	802.81	3.10119E-03	64.08	Tol.	CS-134
	15	818.47	3.04012E-03	49.42	Tol.	CS-136
	16	827.11	3.93720E-03	46.26		
	17	911.20	5.97754E-03	45.67	Tol.	LU-172 AC-228
M	18	965.27	3.17736E-03	64.43		
M	19	1117.62	2.04680E-03	41.28		
	21	1155.86	3.47222E-03	37.63		
	22	1173.68	1.97797E-03	52.47	Tol.	CO-60
	23	1182.80	3.69949E-03	50.19		
	24	1271.24	2.50000E-03	33.33		
	25	1305.59	1.27315E-03	60.00		
	26	1348.51	2.85714E-03	47.75		
	27	1358.42	1.52778E-03	55.30		
	28	1377.60	6.44547E-03	27.00		
	29	1402.22	1.94444E-03	37.80		
	31	1468.64	2.36111E-03	50.09		
	32	1544.21	1.66667E-03	40.82		
	33	1731.26	2.50000E-03	33.33	Sum	
	35	1779.61	1.38889E-03	44.72		
	36	1838.12	1.64931E-03	58.34		
	37	2614.20	1.30777E-03	72.68	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1506114-12

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.93E+00	1.12E+00
PB-210	0.99	46.50	*	4.25	6.93E+00	6.41E+00
BI-214	0.90	609.31	*	46.30	5.11E-01	2.41E-01
		1120.29	*	15.10	4.54E-01	6.36E-01
		1764.49	*	15.80	6.17E-01	5.04E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	6.27E-01	5.25E-01
		351.92	*	37.19	5.82E-01	2.72E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.993	1.93E+00	1.12E+00	
PB-210	0.992	6.93E+00	6.41E+00	
BI-214	0.904	5.23E-01	2.06E-01	
PB-214	0.993	5.91E-01	2.42E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:30:11AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.77	1.15905E-01	19.53		
	3	76.14	2.97239E-02	21.15		
	4	205.98	9.82323E-03	62.60	Tol.	U-235
	5	277.64	6.92604E-03	54.86	Tol.	NP-239 CM-243
	8	482.06	9.21569E-03	42.92		
m	10	616.02	2.92510E-03	66.13		
	11	656.30	2.50000E-03	59.77	Sum	
	12	679.22	2.96296E-03	65.29		
	13	768.10	5.42115E-03	40.43		
	14	802.81	3.10119E-03	64.08	Tol.	CS-134
	15	818.47	3.04012E-03	49.42	Tol.	CS-136
	16	827.11	3.93720E-03	46.26		
	17	911.20	5.97754E-03	45.67	Tol.	LU-172 AC-228
M	18	965.27	3.17736E-03	64.43		
M	19	1117.62	2.04680E-03	41.28		
	21	1155.86	3.47222E-03	37.63		
	22	1173.68	1.97797E-03	52.47	Tol.	CO-60
	23	1182.80	3.69949E-03	50.19		
	24	1271.24	2.50000E-03	33.33		
	25	1305.59	1.27315E-03	60.00		
	26	1348.51	2.85714E-03	47.75		
	27	1358.42	1.52778E-03	55.30		
	28	1377.60	6.44547E-03	27.00		
	29	1402.22	1.94444E-03	37.80		
	31	1468.64	2.36111E-03	50.09		
	32	1544.21	1.66667E-03	40.82		
	33	1731.26	2.50000E-03	33.33	Sum	
	35	1779.61	1.38889E-03	44.72		
	36	1838.12	1.64931E-03	58.34		
	37	2614.20	1.30777E-03	72.68	Tol.	TL-208

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-5.39E-01	1.44E+00	1.44E+00
+	NA-22	1274.54		99.94	4.24E-03	1.34E-01	1.34E-01
+	NA-24	1368.53		99.99	1.15E+13	3.63E+13	4.77E+13
		2754.09		99.86	6.36E+12		3.63E+13
+	AL-26	1808.65		99.76	-6.90E-03	1.36E-01	1.36E-01
+	K-40	1460.81	*	10.67	1.93E+00	1.45E+00	1.45E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	4.17E-02	8.39E-02	8.39E-02
		78.34		96.00	7.57E-02		8.84E-02
+	SC-46	889.25		99.98	8.09E-02	1.87E-01	1.87E-01
		1120.51		99.99	1.64E-01		2.58E-01
+	V-48	983.52		99.98	-2.24E-01	3.96E-01	3.96E-01
		1312.10		97.50	-1.02E-01		4.53E-01
+	CR-51	320.08		9.83	-6.24E-01	2.18E+00	2.18E+00
+	MN-54	834.83		99.97	6.67E-02	1.64E-01	1.64E-01
+	CO-56	846.75		99.96	-7.69E-02	1.70E-01	1.70E-01
		1037.75		14.03	-5.10E-01		1.23E+00
		1238.25		67.00	8.51E-02		3.27E-01
		1771.40		15.51	0.00E+00		2.33E-01
		2598.48		16.90	2.38E-01		9.80E-01
+	CO-57	122.06		85.51	6.31E-02	9.72E-02	9.72E-02
		136.48		10.60	-5.84E-01		6.86E-01
+	CO-58	810.76		99.40	-1.06E-02	1.41E-01	1.41E-01
+	FE-59	1099.22		56.50	-1.05E-01	3.47E-01	3.47E-01
		1291.56		43.20	2.11E-02		5.61E-01
+	CO-60	1173.22		100.00	2.95E-03	1.48E-01	1.48E-01
		1332.49		100.00	7.36E-02		1.63E-01
+	ZN-65	1115.52		50.75	-7.21E-02	2.67E-01	2.67E-01
+	GA-67	93.31		35.70	1.53E+02	1.56E+02	1.56E+02
		208.95		2.24	-1.23E+03		2.49E+03
		300.22		16.00	-1.06E+01		3.58E+02
+	SE-75	121.11		16.70	-5.07E-02	1.42E-01	5.16E-01

Analysis Report for 1506114-12

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00	59.20	-3.31E-02	1.42E-01	1.42E-01
		264.65	59.80	1.02E-02		1.85E-01
		279.53	25.20	1.79E-01		4.68E-01
		400.65	11.40	3.94E-01		1.13E+00
+	RB-82	776.52	13.00	-1.07E+00	1.62E+00	1.62E+00
+	RB-83	520.41	46.00	-1.32E-01	2.35E-01	2.35E-01
		529.64	30.30	-1.02E-02		4.37E-01
		552.65	16.40	-9.46E-02		7.09E-01
+	KR-85	513.99	0.43	1.71E+01	3.67E+01	3.67E+01
+	SR-85	513.99	99.27	1.03E-01	2.20E-01	2.20E-01
+	Y-88	898.02	93.40	5.58E-02	1.74E-01	1.74E-01
		1836.01	99.38	0.00E+00		2.02E-01
+	NB-93M	16.57	9.43	-1.26E+04	1.51E+04	1.51E+04
+	NB-94	702.63	100.00	2.31E-02	1.26E-01	1.26E-01
		871.10	100.00	4.75E-02		1.50E-01
+	NB-95	765.79	99.81	1.03E-01	2.64E-01	2.64E-01
+	NB-95M	235.69	25.00	-1.96E+02	1.32E+02	1.32E+02
+	ZR-95	724.18	43.70	4.43E-02	3.21E-01	4.18E-01
		756.72	55.30	-4.10E-03		3.21E-01
+	MO-99	181.06	6.20	5.70E+02	1.51E+03	2.89E+03
		739.58	12.80	-7.25E+02		1.51E+03
		778.00	4.50	-5.20E+02		4.79E+03
+	RU-103	497.08	89.00	-1.99E-02	1.74E-01	1.74E-01
+	RU-106	621.84	9.80	-2.90E-01	1.08E+00	1.08E+00
+	AG-108M	433.93	89.90	3.78E-02	1.11E-01	1.11E-01
		614.37	90.40	-4.02E-01		1.49E-01
		722.95	90.50	3.00E-02		1.54E-01
+	CD-109	88.03	3.72	-7.36E-01	2.50E+00	2.50E+00
+	AG-110M	657.75	93.14	-4.42E-02	1.45E-01	1.45E-01
		677.61	10.53	7.96E-01		1.36E+00
		706.67	16.46	-4.44E-01		7.47E-01
		763.93	21.98	-4.08E-02		6.39E-01
		884.67	71.63	-4.97E-02		1.94E-01
		1384.27	23.94	0.00E+00		5.64E-01
+	CD-113M	263.70	0.02	1.15E+02	4.15E+02	4.15E+02
+	SN-113	255.12	1.93	8.14E-01	1.82E-01	6.34E+00
		391.69	64.90	8.03E-02		1.82E-01
+	TE123M	159.00	84.10	4.02E-02	1.19E-01	1.19E-01
+	SB-124	602.71	97.87	2.72E-02	2.33E-01	2.33E-01
		645.85	7.26	1.72E-01		2.11E+00
		722.78	11.10	3.45E-01		1.77E+00
		1691.02	49.00	-1.38E-01		4.33E-01
+	I-125	35.49	6.49	-9.53E-01	1.27E+01	1.27E+01
+	SB-125	176.33	6.89	-1.98E-03	3.16E-01	1.34E+00
		427.89	29.33	-8.61E-02		3.16E-01
		463.38	10.35	4.58E-02		9.83E-01
		600.56	17.80	2.63E-01		8.68E-01
		635.90	11.32	-6.27E-01		9.63E-01

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		SB-126	414.70	83.30	1.49E-01	6.91E-01	6.91E-01
			666.33	99.60	-1.35E-01		7.41E-01
			695.00	99.60	1.66E-01		7.42E-01
			720.50	53.80	-5.51E-01		1.31E+00
+		SN-126	87.57	37.00	-7.08E-02	2.40E-01	2.40E-01
+		SB-127	473.00	25.00	-1.28E+01	7.20E+01	8.87E+01
			685.20	35.70	1.34E+01		7.20E+01
			783.80	14.70	1.37E+02		2.37E+02
+		I-129	29.78	57.00	-6.43E-01	2.82E+00	2.82E+00
			33.60	13.20	2.35E+00		5.92E+00
			39.58	7.52	3.64E+00		5.20E+00
+		I-131	284.30	6.05	6.89E+00	1.53E+00	2.05E+01
			364.48	81.20	-6.40E-01		1.53E+00
			636.97	7.26	-4.36E+00		2.03E+01
			722.89	1.80	2.02E+01		1.04E+02
+		TE-132	49.72	13.10	2.61E+02	6.31E+01	8.66E+02
			228.16	88.00	6.39E+00		6.31E+01
+		BA-133	81.00	33.00	9.73E-03	1.48E-01	2.01E-01
			302.84	17.80	5.38E-02		5.16E-01
			356.01	60.00	5.71E-02		1.48E-01
+		I-133	529.87	86.30	-1.79E+09	3.17E+09	3.17E+09
+		CS-134	563.23	8.38	3.89E-02	1.50E-01	1.41E+00
			569.32	15.43	3.56E-01		7.97E-01
			604.70	97.60	-5.03E-01		1.70E-01
			795.84	85.40	4.46E-02		1.50E-01
			801.93	8.73	7.00E-01		1.71E+00
+		CS-135	268.24	16.00	5.31E-02	5.91E-01	5.91E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	4.13E+00	6.70E-01	6.25E+00
			163.89	4.61	5.67E+00		9.00E+00
			176.55	13.56	1.91E+00		3.35E+00
			273.65	12.66	6.24E-01		3.99E+00
			340.57	48.50	3.03E-01		1.04E+00
			818.50	99.70	5.13E-02		6.70E-01
			1048.07	79.60	4.36E-01		9.55E-01
			1235.34	19.70	2.33E+00		4.40E+00
+		CS-137	661.65	85.12	9.02E-03	1.50E-01	1.50E-01
+		LA-138	788.74	34.00	-9.51E-02	1.47E-01	3.98E-01
			1435.80	66.00	-2.28E-02		1.47E-01
+		CE-139	165.85	80.35	-1.19E-02	1.14E-01	1.14E-01
+		BA-140	162.64	6.70	-3.69E+00	2.27E+00	6.35E+00
			304.84	4.50	2.89E+00		1.02E+01
			423.70	3.20	5.77E+00		1.67E+01
			437.55	2.00	8.71E-01		2.41E+01
			537.32	25.00	6.94E-02		2.27E+00
+		LA-140	328.77	20.50	-1.10E+00	7.32E-01	2.59E+00
			487.03	45.50	-2.06E-01		9.62E-01

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	815.85	23.50	9.11E-02	7.32E-01	3.22E+00
		1596.49	95.49	1.69E-01		7.32E-01
+	CE-141	145.44	48.40	2.48E-01	3.30E-01	3.30E-01
+	CE-143	57.36	11.80	-5.08E+05	1.23E+06	3.67E+06
		293.26	42.00	3.49E+05		1.23E+06
		664.55	5.20	4.04E+06		1.10E+07
+	CE-144	133.54	10.80	4.55E-01	7.95E-01	7.95E-01
+	PM-144	476.78	42.00	-9.57E-02	1.15E-01	2.56E-01
		618.01	98.60	1.88E-03		1.15E-01
		696.49	99.49	-4.15E-02		1.41E-01
+	PM-145	36.85	21.70	-1.24E+00	1.15E+00	2.24E+00
		37.36	39.70	-6.35E-01		1.15E+00
		42.30	15.10	-5.67E-01		1.92E+00
		72.40	2.31	1.21E+00		2.86E+00
+	PM-146	453.90	39.94	-5.75E-02	2.44E-01	2.44E-01
		735.90	14.01	2.69E-01		8.20E-01
		747.13	13.10	3.62E-01		1.06E+00
+	ND-147	91.11	28.90	-5.14E-01	2.20E+00	2.20E+00
		531.02	13.10	-8.46E-01		5.22E+00
+	PM-149	285.90	3.10	-4.71E+03	3.70E+04	3.70E+04
+	EU-152	121.78	20.50	2.44E-01	3.77E-01	3.77E-01
		244.69	5.40	-7.34E-01		1.71E+00
		344.27	19.13	-2.80E-01		5.05E-01
		778.89	9.20	-4.00E-01		1.23E+00
		964.01	10.40	3.81E-01		1.60E+00
		1085.78	7.22	3.01E-01		1.91E+00
		1112.02	9.60	-2.73E-01		9.35E-01
		1407.95	14.94	-1.80E-01		6.45E-01
+	GD-153	97.43	31.30	5.82E-02	2.45E-01	2.45E-01
		103.18	22.20	1.64E-01		3.71E-01
+	EU-154	123.07	40.50	6.32E-02	1.91E-01	1.91E-01
		723.30	19.70	1.38E-01		7.10E-01
		873.19	11.50	4.82E-01		1.34E+00
		996.32	10.30	-1.33E+00		1.30E+00
		1004.76	17.90	1.93E-02		7.99E-01
		1274.45	35.50	1.17E-02		3.73E-01
+	EU-155	86.50	30.90	1.34E-01	3.08E-01	3.08E-01
		105.30	20.70	8.20E-02		3.69E-01
+	EU-156	811.77	10.40	5.48E-01	4.27E+00	4.27E+00
		1153.47	7.20	1.64E+00		8.98E+00
		1230.71	8.90	-4.58E+00		5.38E+00
+	HO-166M	184.41	72.60	1.07E-01	1.52E-01	1.52E-01
		280.45	29.60	1.28E-01		3.35E-01
		410.94	11.10	7.57E-02		9.19E-01
		711.69	54.10	-3.73E-02		2.54E-01
+	TM-171	66.72	0.14	5.11E+01	6.09E+01	6.09E+01
+	HF-172	81.75	4.52	-2.39E-01	7.29E-01	1.52E+00
		125.81	11.30	3.26E-02		7.29E-01
+	LU-172	181.53	20.60	-8.27E+00	4.21E+00	9.53E+00

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-172	810.06		16.63	-1.07E+00	4.21E+00	1.42E+01
		912.12		15.25	2.31E+00		2.52E+01
		1093.66		62.50	-1.03E+00		4.21E+00
+	LU-173	100.72		5.24	-1.20E+00	4.98E-01	1.37E+00
		272.11		21.20	2.31E-02		4.98E-01
+	HF-175	343.40		84.00	-1.39E-01	1.48E-01	1.48E-01
+	LU-176	88.34		13.30	-1.97E-01	9.00E-02	6.68E-01
		201.83		86.00	-4.60E-02		1.05E-01
		306.78		94.00	-3.95E-02		9.00E-02
+	TA-182	67.75		41.20	1.15E-01	2.31E-01	2.31E-01
		1121.30		34.90	3.65E-01		6.81E-01
		1189.05		16.23	2.16E-01		1.01E+00
		1221.41		26.98	-3.95E-01		5.36E-01
		1231.02		11.44	-2.73E-01		1.41E+00
+	IR-192	308.46		29.68	-9.14E-02	2.81E-01	3.94E-01
		468.07		48.10	-1.78E-02		2.81E-01
+	HG-203	279.19		77.30	6.60E-02	2.07E-01	2.07E-01
+	BI-207	569.67		97.72	5.48E-02	1.23E-01	1.23E-01
		1063.62		74.90	-2.02E-02		1.99E-01
+	TL-208	583.14		30.22	7.36E-02	4.63E-01	4.63E-01
		860.37		4.48	2.70E-01		3.24E+00
		2614.66		35.85	0.00E+00		5.33E-01
+	BI-210M	262.00		45.00	8.90E-02	2.18E-01	2.18E-01
		300.00		23.00	-1.21E-02		4.12E-01
+	PB-210	46.50	*	4.25	6.93E+00	1.04E+01	1.04E+01
+	PB-211	404.84		2.90	-3.32E-01	3.62E+00	3.62E+00
		831.96		2.90	-5.58E-01		4.08E+00
+	BI-212	727.17		11.80	4.03E-01	1.12E+00	1.12E+00
		1620.62		2.75	-2.07E-01		5.00E+00
+	PB-212	238.63		44.60	-6.57E-02	2.66E-01	2.66E-01
		300.09		3.41	-8.19E-02		2.78E+00
+	BI-214	609.31	*	46.30	5.11E-01	5.26E-01	5.26E-01
		1120.29	*	15.10	4.54E-01		1.04E+00
		1764.49	*	15.80	6.17E-01		6.73E-01
		2204.22		4.98	2.00E-01		3.46E+00
+	PB-214	295.21	*	19.19	6.27E-01	3.98E-01	8.38E-01
		351.92	*	37.19	5.82E-01		3.98E-01
+	RN-219	401.80		6.50	-4.72E-01	1.61E+00	1.61E+00
+	RA-223	323.87		3.88	6.76E-02	2.60E+00	2.60E+00
+	RA-224	240.98		3.95	1.75E+00	3.03E+00	3.03E+00
+	RA-225	40.00		31.00	3.48E+00	4.96E+00	4.96E+00
+	RA-226	186.21		3.28	1.97E+00	3.32E+00	3.32E+00
+	TH-227	50.10		8.40	6.57E-01	8.81E-01	2.18E+00
		236.00		11.50	-1.31E+00		8.81E-01
		256.20		6.30	5.97E-01		1.66E+00
+	AC-228	338.32		11.40	-2.23E-01	6.35E-01	8.92E-01
		911.07		27.70	2.63E-01		6.35E-01
		969.11		16.60	1.20E-01		9.22E-01

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TH-230	48.44	16.90	-8.77E-01	1.21E+00	1.21E+00
		62.85	4.60	1.35E+00		2.00E+00
		67.67	0.37	1.06E+01		2.15E+01
+	PA-231	283.67	1.60	1.93E+00	3.97E+00	5.75E+00
		302.67	2.30	4.14E-01		3.97E+00
+	TH-231	25.64	14.70	3.06E+00	1.17E+00	3.69E+01
		84.21	6.40	7.60E-01		1.17E+00
+	PA-233	311.98	38.60	1.61E-01	5.73E-01	5.73E-01
+	PA-234	131.20	20.40	-1.95E-02	4.09E-01	4.09E-01
		733.99	8.80	2.40E-01		1.32E+00
		946.00	12.00	2.87E-01		1.22E+00
+	PA-234M	1001.03	0.92	4.83E+00	1.67E+01	1.67E+01
+	TH-234	63.29	3.80	1.62E+00	2.41E+00	2.41E+00
+	U-235	143.76	10.50	6.98E-02	7.70E-01	7.70E-01
		163.35	4.70	-1.03E+00		1.77E+00
		205.31	4.70	2.82E-01		2.14E+00
+	NP-237	86.50	12.60	3.25E-01	7.46E-01	7.46E-01
+	NP-239	106.10	22.70	4.52E+02	2.33E+03	2.33E+03
		228.18	10.70	6.15E+02		6.07E+03
		277.60	14.10	2.86E+03		5.38E+03
+	AM-241	59.54	35.90	6.49E-02	2.53E-01	2.53E-01
+	AM-243	74.67	66.00	-7.42E-02	1.25E-01	1.25E-01
+	CM-243	209.75	3.29	1.84E-01	7.62E-01	2.83E+00
		228.14	10.60	8.73E-02		8.62E-01
		277.60	14.00	4.05E-01		7.62E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.44E+00	1.44E+00	-5.39E-01	6.48E-01
	NA-22	1274.54		99.94	1.34E-01	1.34E-01	4.24E-03	5.58E-02
	NA-24	1368.53		99.99	4.77E+13	3.63E+13	1.15E+13	2.00E+13
		2754.09		99.86	3.63E+13		6.36E+12	1.36E+13
	AL-26	1808.65		99.76	1.36E-01	1.36E-01	-6.90E-03	5.38E-02
+	K-40	1460.81	*	10.67	1.45E+00	1.45E+00	1.93E+00	6.12E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	8.39E-02	8.39E-02	4.17E-02	3.96E-02
		78.34		96.00	8.84E-02		7.57E-02	4.20E-02
	SC-46	889.25		99.98	1.87E-01	1.87E-01	8.09E-02	8.29E-02
		1120.51		99.99	2.58E-01		1.64E-01	1.16E-01
	V-48	983.52		99.98	3.96E-01	3.96E-01	-2.24E-01	1.64E-01
		1312.10		97.50	4.53E-01		-1.02E-01	1.83E-01
	CR-51	320.08		9.83	2.18E+00	2.18E+00	-6.24E-01	1.01E+00
	MN-54	834.83		99.97	1.64E-01	1.64E-01	6.67E-02	7.34E-02
	CO-56	846.75		99.96	1.70E-01	1.70E-01	-7.69E-02	7.46E-02
		1037.75		14.03	1.23E+00		-5.10E-01	5.27E-01
		1238.25		67.00	3.27E-01		8.51E-02	1.42E-01
		1771.40		15.51	2.33E-01		0.00E+00	0.00E+00
		2598.48		16.90	9.80E-01		2.38E-01	3.79E-01
	CO-57	122.06		85.51	9.72E-02	9.72E-02	6.31E-02	4.59E-02
		136.48		10.60	6.86E-01		-5.84E-01	3.20E-01
	CO-58	810.76		99.40	1.41E-01	1.41E-01	-1.06E-02	6.01E-02
	FE-59	1099.22		56.50	3.47E-01	3.47E-01	-1.05E-01	1.46E-01
		1291.56		43.20	5.61E-01		2.11E-02	2.39E-01
	CO-60	1173.22		100.00	1.48E-01	1.48E-01	2.95E-03	6.33E-02
		1332.49		100.00	1.63E-01		7.36E-02	6.98E-02
	ZN-65	1115.52		50.75	2.67E-01	2.67E-01	-7.21E-02	1.12E-01
	GA-67	93.31		35.70	1.56E+02	1.56E+02	1.53E+02	7.46E+01
		208.95		2.24	2.49E+03		-1.23E+03	1.17E+03
		300.22		16.00	3.58E+02		-1.06E+01	1.65E+02
	SE-75	121.11		16.70	5.16E-01	1.42E-01	-5.07E-02	2.43E-01
		136.00		59.20	1.42E-01		-3.31E-02	6.64E-02
		264.65		59.80	1.85E-01		1.02E-02	8.56E-02
		279.53		25.20	4.68E-01		1.79E-01	2.17E-01
		400.65		11.40	1.13E+00		3.94E-01	5.16E-01
	RB-82	776.52		13.00	1.62E+00	1.62E+00	-1.07E+00	6.77E-01
	RB-83	520.41		46.00	2.35E-01	2.35E-01	-1.32E-01	1.02E-01
		529.64		30.30	4.37E-01		-1.02E-02	1.95E-01
		552.65		16.40	7.09E-01		-9.46E-02	3.10E-01
	KR-85	513.99		0.43	3.67E+01	3.67E+01	1.71E+01	1.71E+01
	SR-85	513.99		99.27	2.20E-01	2.20E-01	1.03E-01	1.03E-01
	Y-88	898.02		93.40	1.74E-01	1.74E-01	5.58E-02	7.58E-02
		1836.01		99.38	2.02E-01		0.00E+00	8.37E-02
	NB-93M	16.57		9.43	1.51E+04	1.51E+04	-1.26E+04	7.29E+03
	NB-94	702.63		100.00	1.26E-01	1.26E-01	2.31E-02	5.61E-02
		871.10		100.00	1.50E-01		4.75E-02	6.66E-02
	NB-95	765.79		99.81	2.64E-01	2.64E-01	1.03E-01	1.19E-01
	NB-95M	235.69		25.00	1.32E+02	1.32E+02	-1.96E+02	6.18E+01
	ZR-95	724.18		43.70	4.18E-01	3.21E-01	4.43E-02	1.86E-01
		756.72		55.30	3.21E-01		-4.10E-03	1.42E-01
	MO-99	181.06		6.20	2.89E+03	1.51E+03	5.70E+02	1.36E+03
		739.58		12.80	1.51E+03		-7.25E+02	6.41E+02

Analysis Report for 1506114-12

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
MO-99	778.00	4.50	4.79E+03	1.51E+03	-5.20E+02	2.06E+03
RU-103	497.08	89.00	1.74E-01	1.74E-01	-1.99E-02	7.68E-02
RU-106	621.84	9.80	1.08E+00	1.08E+00	-2.90E-01	4.70E-01
AG-108M	433.93	89.90	1.11E-01	1.11E-01	3.78E-02	5.02E-02
	614.37	90.40	1.49E-01		-4.02E-01	6.75E-02
	722.95	90.50	1.54E-01		3.00E-02	6.89E-02
CD-109	88.03	3.72	2.50E+00	2.50E+00	-7.36E-01	1.19E+00
AG-110M	657.75	93.14	1.45E-01	1.45E-01	-4.42E-02	6.50E-02
	677.61	10.53	1.36E+00		7.96E-01	6.12E-01
	706.67	16.46	7.47E-01		-4.44E-01	3.27E-01
	763.93	21.98	6.39E-01		-4.08E-02	2.83E-01
	884.67	71.63	1.94E-01		-4.97E-02	8.45E-02
	1384.27	23.94	5.64E-01		0.00E+00	2.28E-01
CD-113M	263.70	0.02	4.15E+02	4.15E+02	1.15E+02	1.93E+02
SN-113	255.12	1.93	6.34E+00	1.82E-01	8.14E-01	2.96E+00
	391.69	64.90	1.82E-01		8.03E-02	8.27E-02
TE123M	159.00	84.10	1.19E-01	1.19E-01	4.02E-02	5.61E-02
SB-124	602.71	97.87	2.33E-01	2.33E-01	2.72E-02	1.08E-01
	645.85	7.26	2.11E+00		1.72E-01	9.26E-01
	722.78	11.10	1.77E+00		3.45E-01	7.95E-01
	1691.02	49.00	4.33E-01		-1.38E-01	1.78E-01
I-125	35.49	6.49	1.27E+01	1.27E+01	-9.53E-01	6.09E+00
SB-125	176.33	6.89	1.34E+00	3.16E-01	-1.98E-03	6.33E-01
	427.89	29.33	3.16E-01		-8.61E-02	1.41E-01
	463.38	10.35	9.83E-01		4.58E-02	4.41E-01
	600.56	17.80	8.68E-01		2.63E-01	3.99E-01
	635.90	11.32	9.63E-01		-6.27E-01	4.24E-01
SB-126	414.70	83.30	6.91E-01	6.91E-01	1.49E-01	3.15E-01
	666.33	99.60	7.41E-01		-1.35E-01	3.35E-01
	695.00	99.60	7.42E-01		1.66E-01	3.34E-01
	720.50	53.80	1.31E+00		-5.51E-01	5.86E-01
SN-126	87.57	37.00	2.40E-01	2.40E-01	-7.08E-02	1.15E-01
SB-127	473.00	25.00	8.87E+01	7.20E+01	-1.28E+01	3.96E+01
	685.20	35.70	7.20E+01		1.34E+01	3.17E+01
	783.80	14.70	2.37E+02		1.37E+02	1.07E+02
I-129	29.78	57.00	2.82E+00	2.82E+00	-6.43E-01	1.35E+00
	33.60	13.20	5.92E+00		2.35E+00	2.84E+00
	39.58	7.52	5.20E+00		3.64E+00	2.50E+00
I-131	284.30	6.05	2.05E+01	1.53E+00	6.89E+00	9.43E+00
	364.48	81.20	1.53E+00		-6.40E-01	6.95E-01
	636.97	7.26	2.03E+01		-4.36E+00	8.95E+00
	722.89	1.80	1.04E+02		2.02E+01	4.66E+01
TE-132	49.72	13.10	8.66E+02	6.31E+01	2.61E+02	4.16E+02
	228.16	88.00	6.31E+01		6.39E+00	2.94E+01
BA-133	81.00	33.00	2.01E-01	1.48E-01	9.73E-03	9.43E-02
	302.84	17.80	5.16E-01		5.38E-02	2.36E-01
	356.01	60.00	1.48E-01		5.71E-02	6.70E-02
I-133	529.87	86.30	3.17E+09	3.17E+09	-1.79E+09	1.40E+09
CS-134	563.23	8.38	1.41E+00	1.50E-01	3.89E-02	6.32E-01
	569.32	15.43	7.97E-01		3.56E-01	3.59E-01
	604.70	97.60	1.70E-01		-5.03E-01	7.86E-02
	795.84	85.40	1.50E-01		4.46E-02	6.55E-02
	801.93	8.73	1.71E+00		7.00E-01	7.66E-01

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-135	268.24	16.00	5.91E-01	5.91E-01	5.31E-02	2.74E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	6.25E+00	6.70E-01	4.13E+00	2.97E+00
	163.89	4.61	9.00E+00		5.67E+00	4.23E+00
	176.55	13.56	3.35E+00		1.91E+00	1.58E+00
	273.65	12.66	3.99E+00		6.24E-01	1.86E+00
	340.57	48.50	1.04E+00		3.03E-01	4.79E-01
	818.50	99.70	6.70E-01		5.13E-02	2.96E-01
	1048.07	79.60	9.55E-01		4.36E-01	4.18E-01
	1235.34	19.70	4.40E+00		2.33E+00	1.93E+00
CS-137	661.65	85.12	1.50E-01	1.50E-01	9.02E-03	6.72E-02
LA-138	788.74	34.00	3.98E-01	1.47E-01	-9.51E-02	1.77E-01
	1435.80	66.00	1.47E-01		-2.28E-02	5.52E-02
CE-139	165.85	80.35	1.14E-01	1.14E-01	-1.19E-02	5.35E-02
BA-140	162.64	6.70	6.35E+00	2.27E+00	-3.69E+00	2.98E+00
	304.84	4.50	1.02E+01		2.89E+00	4.67E+00
	423.70	3.20	1.67E+01		5.77E+00	7.57E+00
	437.55	2.00	2.41E+01		8.71E-01	1.08E+01
	537.32	25.00	2.27E+00		6.94E-02	1.02E+00
LA-140	328.77	20.50	2.59E+00	7.32E-01	-1.10E+00	1.20E+00
	487.03	45.50	9.62E-01		-2.06E-01	4.22E-01
	815.85	23.50	3.22E+00		9.11E-02	1.44E+00
	1596.49	95.49	7.32E-01		1.69E-01	2.96E-01
CE-141	145.44	48.40	3.30E-01	3.30E-01	2.48E-01	1.55E-01
CE-143	57.36	11.80	3.67E+06	1.23E+06	-5.08E+05	1.74E+06
	293.26	42.00	1.23E+06		3.49E+05	5.79E+05
	664.55	5.20	1.10E+07		4.04E+06	5.02E+06
CE-144	133.54	10.80	7.95E-01	7.95E-01	4.55E-01	3.75E-01
PM-144	476.78	42.00	2.56E-01	1.15E-01	-9.57E-02	1.15E-01
	618.01	98.60	1.15E-01		1.88E-03	5.07E-02
	696.49	99.49	1.41E-01		-4.15E-02	6.32E-02
PM-145	36.85	21.70	2.24E+00	1.15E+00	-1.24E+00	1.07E+00
	37.36	39.70	1.15E+00		-6.35E-01	5.52E-01
	42.30	15.10	1.92E+00		-5.67E-01	9.24E-01
	72.40	2.31	2.86E+00		1.21E+00	1.34E+00
PM-146	453.90	39.94	2.44E-01	2.44E-01	-5.75E-02	1.09E-01
	735.90	14.01	8.20E-01		2.69E-01	3.58E-01
	747.13	13.10	1.06E+00		3.62E-01	4.74E-01
ND-147	91.11	28.90	2.20E+00	2.20E+00	-5.14E-01	1.05E+00
	531.02	13.10	5.22E+00		-8.46E-01	2.32E+00
PM-149	285.90	3.10	3.70E+04	3.70E+04	-4.71E+03	1.70E+04
EU-152	121.78	20.50	3.77E-01	3.77E-01	2.44E-01	1.78E-01
	244.69	5.40	1.71E+00		-7.34E-01	7.94E-01
	344.27	19.13	5.05E-01		-2.80E-01	2.31E-01
	778.89	9.20	1.23E+00		-4.00E-01	5.30E-01
	964.01	10.40	1.60E+00		3.81E-01	7.14E-01
	1085.78	7.22	1.91E+00		3.01E-01	8.19E-01
	1112.02	9.60	9.35E-01		-2.73E-01	3.62E-01
	1407.95	14.94	6.45E-01		-1.80E-01	2.41E-01
GD-153	97.43	31.30	2.45E-01	2.45E-01	5.82E-02	1.16E-01
	103.18	22.20	3.71E-01		1.64E-01	1.75E-01

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	123.07		40.50	1.91E-01	1.91E-01	6.32E-02	9.01E-02
		723.30		19.70	7.10E-01		1.38E-01	3.19E-01
		873.19		11.50	1.34E+00		4.82E-01	5.97E-01
		996.32		10.30	1.30E+00		-1.33E+00	5.58E-01
		1004.76		17.90	7.99E-01		1.93E-02	3.47E-01
		1274.45		35.50	3.73E-01		1.17E-02	1.55E-01
	EU-155	86.50		30.90	3.08E-01	3.08E-01	1.34E-01	1.47E-01
		105.30		20.70	3.69E-01		8.20E-02	1.74E-01
	EU-156	811.77		10.40	4.27E+00	4.27E+00	5.48E-01	1.84E+00
		1153.47		7.20	8.98E+00		1.64E+00	3.92E+00
		1230.71		8.90	5.38E+00		-4.58E+00	2.21E+00
	HO-166M	184.41		72.60	1.52E-01	1.52E-01	1.07E-01	7.25E-02
		280.45		29.60	3.35E-01		1.28E-01	1.55E-01
		410.94		11.10	9.19E-01		7.57E-02	4.17E-01
		711.69		54.10	2.54E-01		-3.73E-02	1.14E-01
	TM-171	66.72		0.14	6.09E+01	6.09E+01	5.11E+01	2.88E+01
	HF-172	81.75		4.52	1.52E+00	7.29E-01	-2.39E-01	7.13E-01
		125.81		11.30	7.29E-01		3.26E-02	3.44E-01
	LU-172	181.53		20.60	9.53E+00	4.21E+00	-8.27E+00	4.47E+00
		810.06		16.63	1.42E+01		-1.07E+00	6.04E+00
		912.12		15.25	2.52E+01		2.31E+00	1.14E+01
		1093.66		62.50	4.21E+00		-1.03E+00	1.75E+00
	LU-173	100.72		5.24	1.37E+00	4.98E-01	-1.20E+00	6.45E-01
		272.11		21.20	4.98E-01		2.31E-02	2.31E-01
	HF-175	343.40		84.00	1.48E-01	1.48E-01	-1.39E-01	6.76E-02
	LU-176	88.34		13.30	6.68E-01	9.00E-02	-1.97E-01	3.18E-01
		201.83		86.00	1.05E-01		-4.60E-02	4.91E-02
		306.78		94.00	9.00E-02		-3.95E-02	4.09E-02
	TA-182	67.75		41.20	2.31E-01	2.31E-01	1.15E-01	1.09E-01
		1121.30		34.90	6.81E-01		3.65E-01	3.06E-01
		1189.05		16.23	1.01E+00		2.16E-01	4.27E-01
		1221.41		26.98	5.36E-01		-3.95E-01	2.20E-01
		1231.02		11.44	1.41E+00		-2.73E-01	5.91E-01
	IR-192	308.46		29.68	3.94E-01	2.81E-01	-9.14E-02	1.80E-01
		468.07		48.10	2.81E-01		-1.78E-02	1.27E-01
	HG-203	279.19		77.30	2.07E-01	2.07E-01	6.60E-02	9.62E-02
	BI-207	569.67		97.72	1.23E-01	1.23E-01	5.48E-02	5.53E-02
		1063.62		74.90	1.99E-01		-2.02E-02	8.66E-02
	TL-208	583.14		30.22	4.63E-01	4.63E-01	7.36E-02	2.12E-01
		860.37		4.48	3.24E+00		2.70E-01	1.44E+00
		2614.66		35.85	5.33E-01		0.00E+00	2.27E-01
	BI-210M	262.00		45.00	2.18E-01	2.18E-01	8.90E-02	1.01E-01
		300.00		23.00	4.12E-01		-1.21E-02	1.89E-01
+	PB-210	46.50	*	4.25	1.04E+01	1.04E+01	6.93E+00	5.08E+00
	PB-211	404.84		2.90	3.62E+00	3.62E+00	-3.32E-01	1.65E+00
		831.96		2.90	4.08E+00		-5.58E-01	1.77E+00
	BI-212	727.17		11.80	1.12E+00	1.12E+00	4.03E-01	4.99E-01
		1620.62		2.75	5.00E+00		-2.07E-01	2.02E+00
	PB-212	238.63		44.60	2.66E-01	2.66E-01	-6.57E-02	1.26E-01
		300.09		3.41	2.78E+00		-8.19E-02	1.28E+00
+	BI-214	609.31	*	46.30	5.26E-01	5.26E-01	5.11E-01	2.50E-01
		1120.29	*	15.10	1.04E+00		4.54E-01	4.53E-01
		1764.49	*	15.80	6.73E-01		6.17E-01	2.49E-01

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-214	2204.22		4.98	3.46E+00	5.26E-01	2.00E-01	1.44E+00
+	PB-214	295.21	*	19.19	8.38E-01	3.98E-01	6.27E-01	3.99E-01
		351.92	*	37.19	3.98E-01		5.82E-01	1.87E-01
	RN-219	401.80		6.50	1.61E+00	1.61E+00	-4.72E-01	7.32E-01
	RA-223	323.87		3.88	2.60E+00	2.60E+00	6.76E-02	1.20E+00
	RA-224	240.98		3.95	3.03E+00	3.03E+00	1.75E+00	1.43E+00
	RA-225	40.00		31.00	4.96E+00	4.96E+00	3.48E+00	2.39E+00
	RA-226	186.21		3.28	3.32E+00	3.32E+00	1.97E+00	1.58E+00
	TH-227	50.10		8.40	2.18E+00	8.81E-01	6.57E-01	1.05E+00
		236.00		11.50	8.81E-01		-1.31E+00	4.13E-01
		256.20		6.30	1.66E+00		5.97E-01	7.75E-01
	AC-228	338.32		11.40	8.92E-01	6.35E-01	-2.23E-01	4.10E-01
		911.07		27.70	6.35E-01		2.63E-01	2.86E-01
		969.11		16.60	9.22E-01		1.20E-01	4.07E-01
	TH-230	48.44		16.90	1.21E+00	1.21E+00	-8.77E-01	5.83E-01
		62.85		4.60	2.00E+00		1.35E+00	9.49E-01
		67.67		0.37	2.15E+01		1.06E+01	1.01E+01
	PA-231	283.67		1.60	5.75E+00	3.97E+00	1.93E+00	2.65E+00
		302.67		2.30	3.97E+00		4.14E-01	1.82E+00
	TH-231	25.64		14.70	3.69E+01	1.17E+00	3.06E+00	1.77E+01
		84.21		6.40	1.17E+00		7.60E-01	5.52E-01
	PA-233	311.98		38.60	5.73E-01	5.73E-01	1.61E-01	2.65E-01
	PA-234	131.20		20.40	4.09E-01	4.09E-01	-1.95E-02	1.93E-01
		733.99		8.80	1.32E+00		2.40E-01	5.80E-01
		946.00		12.00	1.22E+00		2.87E-01	5.37E-01
	PA-234M	1001.03		0.92	1.67E+01	1.67E+01	4.83E+00	7.34E+00
	TH-234	63.29		3.80	2.41E+00	2.41E+00	1.62E+00	1.14E+00
	U-235	143.76		10.50	7.70E-01	7.70E-01	6.98E-02	3.62E-01
		163.35		4.70	1.77E+00		-1.03E+00	8.32E-01
		205.31		4.70	2.14E+00		2.82E-01	1.01E+00
	NP-237	86.50		12.60	7.46E-01	7.46E-01	3.25E-01	3.57E-01
	NP-239	106.10		22.70	2.33E+03	2.33E+03	4.52E+02	1.10E+03
		228.18		10.70	6.07E+03		6.15E+02	2.83E+03
		277.60		14.10	5.38E+03		2.86E+03	2.51E+03
	AM-241	59.54		35.90	2.53E-01	2.53E-01	6.49E-02	1.19E-01
	AM-243	74.67		66.00	1.25E-01	1.25E-01	-7.42E-02	5.91E-02
	CM-243	209.75		3.29	2.83E+00	7.62E-01	1.84E-01	1.33E+00
		228.14		10.60	8.62E-01		8.73E-02	4.02E-01
		277.60		14.00	7.62E-01		4.05E-01	3.55E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506114-12

FEEBRIS1D-18.038-041

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-18.038-041

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	2	154
9:	532	1099	812	343	706	1613	201	125
17:	90	98	96	76	72	86	53	72
25:	88	61	60	66	53	68	62	66
33:	63	58	68	48	69	66	76	72
41:	72	52	72	76	69	95	134	85
49:	70	63	71	49	50	61	53	47
57:	36	35	37	23	30	22	33	52
65:	20	24	35	38	18	22	29	23
73:	16	36	46	31	63	43	20	25
81:	25	26	27	30	44	21	25	49
89:	26	26	25	30	62	25	17	16
97:	19	25	14	16	15	18	22	25
105:	22	16	16	18	15	11	34	15
113:	13	28	15	14	16	12	11	15
121:	23	20	15	22	14	16	23	25
129:	23	19	14	26	23	19	9	17
137:	13	13	12	20	14	13	14	31
145:	18	13	19	11	26	21	23	16
153:	30	20	28	13	11	17	18	22
161:	18	15	17	16	15	21	6	13
169:	14	15	14	16	14	16	21	17
177:	16	18	20	11	18	18	17	13
185:	25	53	17	12	18	13	8	14
193:	16	13	7	18	19	17	14	15
201:	12	16	11	18	21	26	13	17
209:	17	14	11	14	10	13	10	14
217:	16	15	18	17	17	13	7	18
225:	11	14	13	8	14	13	12	15
233:	20	7	14	15	10	28	35	12
241:	17	28	10	8	22	8	9	6
249:	3	15	6	10	11	12	17	16
257:	11	14	11	11	12	10	14	12
265:	7	12	7	10	14	10	12	12
273:	17	9	10	14	11	22	9	9
281:	8	7	7	11	10	11	6	6
289:	11	6	13	12	5	13	49	28
297:	17	10	9	10	10	6	9	10
305:	6	6	8	6	8	9	11	6
313:	15	9	8	9	7	8	11	10
321:	15	3	14	8	9	12	4	16
329:	8	9	11	13	9	8	11	6
337:	5	11	10	12	10	8	5	5
345:	7	13	12	5	9	12	17	64
353:	25	5	2	8	8	7	5	5
361:	10	7	6	5	6	8	8	2

369:	9	8	10	5	6	6	7	8

Sample Title: FEEBRIS1D-18.038-041

Channel								
377:	0	5	4	6	5	6	4	5
385:	6	5	9	5	3	4	9	1
393:	5	14	5	5	12	5	9	5
401:	6	12	7	6	9	9	5	5
409:	6	6	3	11	7	4	10	5
417:	10	5	5	5	6	8	7	4
425:	9	5	6	2	9	2	4	8
433:	3	6	6	6	2	7	4	6
441:	4	4	9	5	6	8	3	5
449:	6	6	7	5	3	5	5	7
457:	6	6	9	5	6	3	5	7
465:	5	2	5	7	6	7	7	4
473:	5	3	5	3	7	6	5	13
481:	6	6	2	3	3	3	3	8
489:	0	3	8	4	4	8	3	3
497:	5	3	5	4	2	2	4	6
505:	2	7	2	7	9	32	30	26
513:	16	8	3	8	2	1	5	6
521:	3	0	8	3	3	3	8	4
529:	5	2	4	3	8	5	4	6
537:	5	6	5	2	6	2	8	4
545:	1	6	3	4	8	3	5	3
553:	2	3	2	3	1	2	4	1
561:	7	4	6	5	4	6	7	3
569:	8	5	5	2	2	3	3	4
577:	3	7	4	3	5	4	4	11
585:	8	3	5	3	5	7	5	5
593:	3	5	2	5	5	7	5	8
601:	10	3	5	6	10	7	7	11
609:	41	30	4	4	7	5	2	7
617:	3	2	1	1	3	1	3	3
625:	4	4	7	1	5	0	5	5
633:	5	1	4	3	3	2	0	6
641:	3	1	4	2	3	2	3	2
649:	2	3	2	4	1	2	5	3
657:	7	1	3	1	4	8	4	4
665:	4	3	6	5	3	3	5	4
673:	0	3	3	2	2	4	8	4
681:	1	1	4	3	1	2	3	4
689:	1	2	4	4	5	4	5	4
697:	4	1	2	4	6	2	2	3
705:	3	1	4	2	2	2	7	6
713:	3	4	8	4	3	4	4	4
721:	4	1	3	2	6	6	1	3
729:	1	4	4	0	6	3	1	0
737:	3	3	0	2	0	3	2	5
745:	6	0	2	7	2	2	3	1
753:	4	4	0	4	2	4	2	6
761:	1	3	1	3	4	3	5	5
769:	5	1	4	0	1	2	1	0
777:	2	3	0	4	3	2	4	5
785:	3	6	5	3	0	2	2	4
793:	3	6	2	0	4	1	1	4

801:	4	5	3	7	0	1	2	0

Sample Title: FEEBRIS1D-18.038-041

Channel								
809:	2	2	0	2	3	4	2	1
817:	6	4	4	3	0	2	2	2
825:	3	5	6	3	2	0	1	4
833:	4	3	0	2	6	6	4	3
841:	2	5	4	4	2	3	1	1
849:	2	3	5	3	4	1	4	0
857:	1	2	3	2	5	5	3	4
865:	3	1	2	0	4	6	2	2
873:	6	2	2	3	2	2	0	4
881:	5	0	1	2	2	4	1	5
889:	2	2	4	2	1	1	0	5
897:	2	5	2	1	1	2	1	2
905:	2	0	5	5	3	3	6	8
913:	1	3	3	2	3	0	3	2
921:	3	3	1	4	2	3	3	0
929:	1	0	3	0	2	7	2	2
937:	2	8	5	1	2	3	3	4
945:	3	4	2	2	0	2	1	2
953:	0	2	0	2	0	4	1	3
961:	0	1	2	7	4	5	4	1
969:	5	3	1	0	2	0	1	2
977:	1	2	1	2	0	0	1	1
985:	1	3	4	3	0	3	5	5
993:	2	3	1	1	1	3	2	5
1001:	4	1	1	2	2	2	3	0
1009:	2	3	3	2	0	2	3	2
1017:	1	2	2	1	2	1	0	3
1025:	3	2	3	3	1	0	2	2
1033:	3	2	2	3	2	0	3	0
1041:	0	6	1	1	2	1	2	3
1049:	2	4	3	1	1	4	2	4
1057:	2	2	1	3	3	3	1	0
1065:	3	2	2	4	2	2	4	0
1073:	2	4	2	2	2	2	2	1
1081:	1	3	2	0	1	3	0	3
1089:	2	1	1	1	1	1	2	1
1097:	0	2	0	3	3	0	2	3
1105:	3	0	0	0	0	0	2	1
1113:	0	0	1	0	4	3	3	6
1121:	8	3	0	3	1	2	0	0
1129:	3	1	2	3	0	1	3	3
1137:	0	0	0	1	1	2	1	3
1145:	3	1	2	0	2	4	1	0
1153:	1	3	6	1	5	0	1	1
1161:	6	0	2	2	1	1	3	4
1169:	2	0	0	4	3	3	2	0
1177:	0	1	1	3	2	2	5	4
1185:	1	2	1	0	2	1	3	1
1193:	2	0	0	0	1	3	2	2
1201:	3	1	0	2	2	1	3	0
1209:	1	1	1	1	0	2	3	0
1217:	2	1	0	4	0	0	2	0
1225:	4	3	0	1	2	0	0	2

1233:	2	2	2	2	4	3	1	2

Sample Title: FEEBRIS1D-18.038-041

Channel								
1241:	1	0	2	1	1	4	2	1
1249:	2	1	2	0	1	2	0	1
1257:	2	2	2	2	0	0	4	0
1265:	0	0	0	1	0	3	2	2
1273:	1	0	0	0	3	1	2	1
1281:	4	2	2	0	2	1	0	2
1289:	2	2	2	1	1	1	1	3
1297:	2	2	1	0	1	0	0	1
1305:	3	2	0	1	0	1	0	1
1313:	0	3	1	2	3	0	0	1
1321:	1	0	2	0	0	1	1	0
1329:	1	2	0	3	5	1	0	1
1337:	0	2	2	1	0	1	2	0
1345:	2	1	4	3	1	2	1	0
1353:	0	0	0	0	1	5	1	0
1361:	1	1	2	1	1	3	2	1
1369:	2	0	0	1	2	1	3	3
1377:	3	6	3	1	1	1	2	0
1385:	1	0	1	0	1	1	0	0
1393:	1	3	2	0	0	0	0	1
1401:	2	2	2	0	0	1	0	0
1409:	1	1	1	1	3	1	1	0
1417:	1	1	0	0	0	0	1	0
1425:	0	1	1	3	0	0	0	1
1433:	0	0	1	1	0	0	1	1
1441:	0	0	0	1	1	0	0	2
1449:	0	0	4	0	0	2	0	0
1457:	1	0	7	7	13	5	2	0
1465:	1	1	2	3	3	1	1	0
1473:	1	1	0	1	0	1	0	2
1481:	2	1	0	0	3	2	0	0
1489:	0	2	0	2	1	0	0	0
1497:	1	1	0	1	1	2	1	1
1505:	1	0	2	0	3	1	1	2
1513:	0	1	1	1	1	1	1	0
1521:	4	0	1	0	2	1	1	1
1529:	0	0	0	0	1	2	0	1
1537:	1	1	3	1	0	0	2	4
1545:	0	0	1	0	0	0	1	2
1553:	3	1	1	1	1	3	1	0
1561:	0	0	0	0	1	1	0	1
1569:	1	0	1	0	0	1	1	0
1577:	2	0	1	3	1	0	0	1
1585:	1	0	0	4	1	0	0	1
1593:	1	0	0	1	2	1	0	0
1601:	1	0	1	1	0	1	1	0
1609:	2	0	1	0	2	0	2	1
1617:	0	1	1	0	0	2	0	1
1625:	0	1	0	1	2	0	0	0
1633:	3	0	2	0	1	0	0	2
1641:	1	0	1	0	2	1	0	0
1649:	1	0	0	0	0	0	1	0
1657:	2	0	0	1	0	0	1	1

1665:	1	1	1	0	0	0	1	0

Sample Title: FEEBRIS1D-18.038-041

Channel								
1673:	1	0	0	0	2	1	1	2
1681:	1	0	1	1	3	0	0	0
1689:	1	3	1	1	0	1	1	0
1697:	0	2	0	1	1	2	2	1
1705:	1	0	0	1	1	2	1	2
1713:	1	2	0	0	0	1	2	1
1721:	0	0	0	0	0	0	1	1
1729:	1	0	2	2	2	0	0	0
1737:	3	2	1	1	1	1	1	1
1745:	1	2	0	1	1	0	0	1
1753:	0	0	0	3	0	0	0	0
1761:	0	0	5	7	1	1	0	0
1769:	0	0	0	0	0	0	0	0
1777:	0	2	1	2	0	0	0	0
1785:	0	1	1	0	1	0	0	0
1793:	1	1	0	2	0	0	0	0
1801:	1	0	0	0	1	0	0	1
1809:	0	2	0	1	1	1	1	1
1817:	1	1	0	0	2	0	0	2
1825:	1	0	1	0	1	2	0	0
1833:	1	0	1	0	1	3	2	0
1841:	0	1	0	0	1	1	2	0
1849:	0	0	0	0	0	0	2	0
1857:	1	0	0	0	0	0	1	1
1865:	0	2	0	0	0	0	2	1
1873:	0	0	1	2	0	0	2	0
1881:	0	2	1	0	0	1	0	1
1889:	0	1	0	1	0	2	2	1
1897:	1	1	1	0	0	0	1	0
1905:	0	1	1	0	0	0	1	0
1913:	0	0	0	0	1	0	1	0
1921:	0	1	0	0	0	0	1	1
1929:	1	1	0	0	1	0	0	0
1937:	0	0	2	0	0	1	2	0
1945:	0	0	0	1	1	2	0	0
1953:	1	0	1	0	1	1	1	1
1961:	1	0	0	0	0	0	2	0
1969:	2	0	1	0	0	0	0	0
1977:	0	1	1	3	1	0	1	2
1985:	0	1	1	1	1	0	0	0
1993:	0	0	2	1	0	0	0	0
2001:	0	0	0	1	0	4	1	0
2009:	1	2	0	0	0	1	0	0
2017:	2	2	0	0	0	1	0	0
2025:	0	0	0	1	0	0	0	0
2033:	0	1	1	0	0	0	1	2
2041:	0	0	0	0	0	0	0	1
2049:	0	1	0	0	0	0	0	0
2057:	2	0	0	0	0	0	0	0
2065:	2	0	0	1	0	0	0	0
2073:	0	0	0	0	0	1	1	0
2081:	0	1	0	0	2	1	1	0
2089:	0	0	1	0	1	0	0	0

2097:	1	0	0	0	0	2	1	0

Sample Title: FEEBRIS1D-18.038-041

Channel								
2105:	1	0	1	1	1	0	0	1
2113:	1	0	1	0	0	0	0	1
2121:	0	0	1	1	0	0	0	0
2129:	0	0	0	0	1	1	1	1
2137:	0	0	0	0	1	1	0	0
2145:	1	0	0	2	2	0	0	0
2153:	0	0	1	0	0	0	0	0
2161:	0	1	0	0	0	0	1	1
2169:	0	0	0	0	0	0	0	1
2177:	0	0	0	0	1	1	0	1
2185:	2	0	1	0	1	0	0	0
2193:	0	0	1	1	0	0	1	0
2201:	2	1	1	4	0	0	0	0
2209:	1	2	0	0	0	0	0	0
2217:	0	0	1	0	1	1	0	0
2225:	1	0	0	0	0	0	1	0
2233:	0	2	1	1	0	0	0	0
2241:	0	0	0	0	0	0	1	0
2249:	0	1	0	2	0	0	1	0
2257:	0	0	1	2	0	0	0	0
2265:	0	1	0	0	1	0	0	0
2273:	0	0	0	0	0	1	1	0
2281:	0	1	1	2	0	0	0	2
2289:	1	0	0	0	0	0	0	1
2297:	1	1	0	0	0	0	1	0
2305:	0	0	1	0	0	0	1	0
2313:	0	0	0	0	0	0	0	0
2321:	0	0	0	0	1	0	0	0
2329:	1	0	0	1	0	0	1	0
2337:	1	0	1	0	0	0	0	0
2345:	0	0	0	1	0	0	0	0
2353:	1	1	0	0	0	2	1	0
2361:	0	0	0	1	0	1	1	0
2369:	0	2	1	1	0	1	1	0
2377:	0	0	0	0	0	0	2	0
2385:	0	1	0	0	0	0	0	1
2393:	0	1	0	0	0	1	0	0
2401:	0	1	0	0	1	0	0	0
2409:	0	0	0	0	0	0	0	0
2417:	0	0	0	0	1	0	0	0
2425:	0	0	0	0	0	0	0	0
2433:	0	0	1	1	0	0	0	1
2441:	1	0	1	1	0	1	0	0
2449:	0	1	0	1	0	0	1	0
2457:	0	0	0	0	1	0	0	0
2465:	0	2	1	0	0	0	0	0
2473:	0	0	1	0	0	0	1	0
2481:	0	0	1	0	0	0	0	0
2489:	0	0	0	1	0	0	1	0
2497:	1	1	0	0	0	0	0	0
2505:	0	0	2	0	1	0	0	0
2513:	0	0	1	1	0	0	1	0
2521:	2	0	0	0	0	0	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-18.038-041

Channel								
2537:	0	0	0	1	0	0	0	0
2545:	0	0	1	1	0	0	0	0
2553:	0	0	1	0	0	0	1	0
2561:	1	0	0	0	0	1	0	0
2569:	0	2	0	0	2	0	0	0
2577:	0	0	0	0	0	2	0	0
2585:	0	0	0	0	0	0	0	1
2593:	0	1	0	0	2	0	0	0
2601:	1	0	0	0	0	1	0	0
2609:	0	0	0	2	3	5	1	0
2617:	0	0	0	0	0	0	0	0
2625:	0	0	0	1	0	0	1	0
2633:	0	0	0	0	0	0	1	0
2641:	0	0	0	0	1	0	0	0
2649:	0	0	1	0	0	1	0	0
2657:	0	0	0	0	0	0	0	0
2665:	0	0	0	0	0	0	0	1
2673:	1	0	0	1	0	0	0	0
2681:	1	0	0	0	0	0	0	0
2689:	0	0	0	0	0	1	0	0
2697:	0	0	1	0	0	0	0	0
2705:	0	0	0	0	0	1	1	0
2713:	0	0	1	2	0	0	1	0
2721:	0	0	0	0	0	1	0	0
2729:	0	0	0	0	0	2	0	0
2737:	0	0	0	1	0	0	0	0
2745:	0	0	0	1	1	0	0	1
2753:	0	0	0	1	0	0	0	0
2761:	0	0	0	0	0	0	1	0
2769:	0	0	0	0	0	0	1	0
2777:	0	0	0	1	0	0	0	1
2785:	0	0	0	1	0	0	0	1
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	0	0	0	1	0
2809:	0	0	1	0	0	0	0	0
2817:	0	1	1	0	0	0	0	0
2825:	0	0	0	1	1	1	0	0
2833:	0	0	0	0	0	0	2	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	1	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	0	1	0	0
2881:	0	0	0	0	1	0	0	0
2889:	0	0	0	1	0	0	0	0
2897:	0	0	0	0	0	0	0	1
2905:	0	0	0	0	0	1	0	0
2913:	0	1	0	0	0	0	1	0
2921:	0	1	0	0	0	0	1	0
2929:	0	1	0	0	0	1	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	1	0
2953:	0	0	0	0	0	1	0	0

2961:	0	0	1	0	0	1	0	0

Sample Title: FEEBRIS1D-18.038-041

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	1	1	0	0
2985:	0	2	0	0	0	0	0	0
2993:	0	0	1	1	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	1	0	1	0
3025:	0	0	0	0	0	0	1	0
3033:	0	0	0	0	0	1	0	0
3041:	0	0	0	0	0	1	0	0
3049:	0	0	0	1	0	0	0	0
3057:	1	0	0	1	0	0	1	0
3065:	1	0	0	0	0	0	1	1
3073:	0	0	0	0	0	1	0	0
3081:	0	0	0	0	1	0	0	1
3089:	0	0	0	0	0	0	0	0
3097:	1	0	1	0	0	0	0	0
3105:	0	0	1	0	0	0	0	1
3113:	0	0	0	0	0	1	0	1
3121:	0	0	0	0	0	0	1	1
3129:	0	0	0	0	0	0	0	1
3137:	1	0	0	0	0	0	0	0
3145:	0	1	0	0	0	0	1	1
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	1	1
3169:	0	0	0	0	0	0	1	0
3177:	0	0	1	0	0	0	0	0
3185:	0	0	0	0	1	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	1	0	1	0	0	1	0
3209:	0	0	0	0	0	1	0	0
3217:	0	0	1	0	1	0	1	0
3225:	0	0	1	0	1	0	0	1
3233:	1	0	0	0	0	0	0	0
3241:	0	1	0	0	1	0	0	0
3249:	0	2	0	0	0	0	0	3
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	1
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	1	0	1	0	1	0
3297:	0	0	0	2	1	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	1	1	0	0	0	0
3321:	0	0	0	0	1	0	0	0
3329:	1	0	0	0	0	0	0	0
3337:	0	0	1	1	0	0	0	0
3345:	0	1	0	0	0	1	0	0
3353:	1	0	0	0	1	0	0	0
3361:	0	0	0	0	0	0	0	1
3369:	0	0	1	1	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	1	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-18.038-041

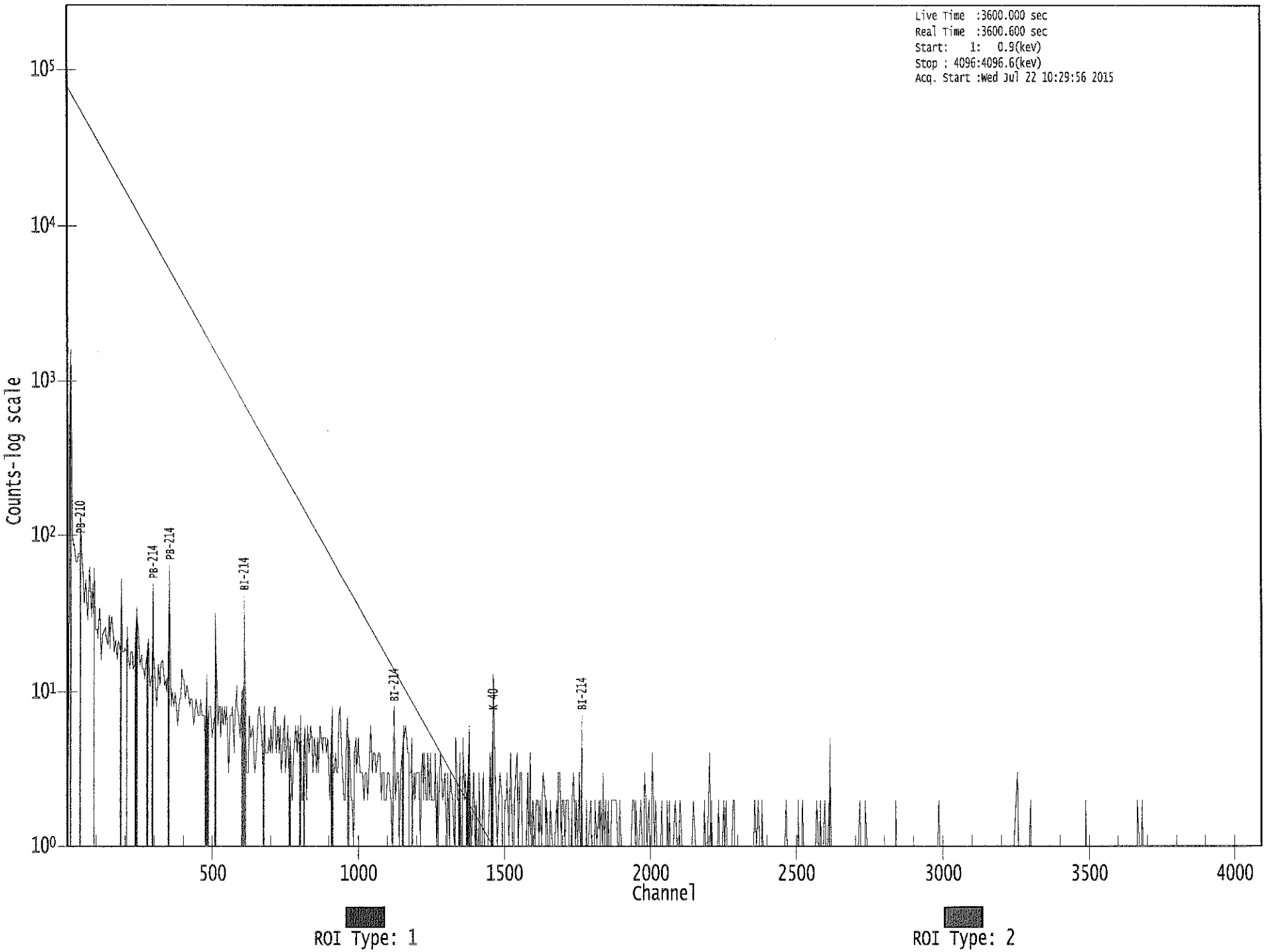
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	1
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	1
3433:	0	0	0	1	0	1	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	1	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	1	0	1	0	0	1	0
3481:	0	0	0	0	0	0	0	2
3489:	0	1	0	0	0	0	0	0
3497:	0	0	1	0	0	0	1	1
3505:	0	0	1	1	0	1	0	1
3513:	0	0	1	0	0	0	0	0
3521:	0	0	0	0	0	1	0	0
3529:	0	0	0	0	0	0	1	0
3537:	0	0	0	0	0	0	0	1
3545:	1	0	0	0	0	0	0	1
3553:	0	0	0	0	0	1	0	0
3561:	0	0	0	0	1	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	1	0	0	0
3585:	0	0	1	0	0	0	0	0
3593:	0	0	0	0	1	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	1	0	0	0	0	0	0	1
3625:	0	0	0	1	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	1	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	2	0	0	0	0	0	1
3673:	0	0	0	1	1	0	1	1
3681:	0	2	1	1	0	0	0	0
3689:	0	0	0	1	0	0	0	1
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	1	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	1	0	0	0	0	0
3729:	0	1	1	0	0	0	1	0
3737:	0	0	0	0	0	0	0	1
3745:	1	1	1	1	0	0	0	1
3753:	0	0	0	0	1	0	0	0
3761:	0	0	0	0	1	1	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	1	1	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	0	0	0	0	0	0	1
3809:	1	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	1	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-18.038-041

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	1	0	0	0	1	1
3865:	0	1	0	0	0	1	0	0
3873:	0	0	0	0	1	0	0	0
3881:	0	0	0	0	0	1	0	1
3889:	0	0	0	0	1	0	0	0
3897:	1	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	1	0	0	0	1	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	1	0	0	1	0	0	0	0
3945:	0	0	0	0	0	0	0	1
3953:	0	0	0	0	0	0	1	0
3961:	0	0	0	1	0	0	0	1
3969:	0	0	1	0	0	1	0	0
3977:	0	0	0	0	1	0	0	0
3985:	0	1	0	0	0	0	0	0
3993:	0	1	1	0	0	1	0	0
4001:	0	0	0	0	0	0	0	1
4009:	0	0	1	0	0	0	0	0
4017:	0	0	0	0	0	0	1	0
4025:	0	0	0	1	0	0	0	0
4033:	0	1	0	0	0	1	1	0
4041:	0	0	1	0	0	0	0	1
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	1	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000024982.CNF



Apex-Gamma

Analysis Report for 1506114-13
FEEBRIS1D-18.044-046

7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-13
Sample Description	: FEEBRIS1D-18.044-046
Sample Type	: SOIL
Sample Size	: 5.693E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:41:58AM
Acquisition Started	: 7/22/2015 10:30:29AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3615.3 seconds
Dead Time	: 0.42 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24984

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/23/15

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 11:30:56AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	63.33	63.55	0.0000	0.00
2	76.25	76.46	0.0000	0.00
3	87.75	87.96	0.0000	0.00
4	92.54	92.75	0.0000	0.00
5	129.31	129.50	0.0000	0.00
6	186.30	186.46	0.0000	0.00
7	197.83	197.98	0.0000	0.00
8	209.84	209.99	0.0000	0.00
9	238.81	238.94	0.0000	0.00
10	242.05	242.17	0.0000	0.00
11	270.63	270.75	0.0000	0.00
12	277.70	277.81	0.0000	0.00
13	295.48	295.57	0.0000	0.00
14	300.75	300.85	0.0000	0.00
15	338.63	338.71	0.0000	0.00
16	352.19	352.26	0.0000	0.00
17	450.61	450.63	0.0000	0.00
18	463.43	463.44	0.0000	0.00
19	583.89	583.85	0.0000	0.00
20	609.53	609.47	0.0000	0.00
21	668.18	668.10	0.0000	0.00
22	720.96	720.85	0.0000	0.00
23	727.81	727.70	0.0000	0.00
24	796.75	796.61	0.0000	0.00
25	911.13	910.94	0.0000	0.00
26	935.60	935.40	0.0000	0.00
27	965.05	964.83	0.0000	0.00
28	969.22	969.00	0.0000	0.00
29	1003.27	1003.03	0.0000	0.00
30	1121.15	1120.86	0.0000	0.00
31	1156.21	1155.91	0.0000	0.00
32	1238.72	1238.39	0.0000	0.00
33	1246.37	1246.03	0.0000	0.00
34	1294.10	1293.74	0.0000	0.00
35	1339.24	1338.87	0.0000	0.00
36	1376.78	1376.39	0.0000	0.00
37	1407.19	1406.79	0.0000	0.00
38	1461.12	1460.70	0.0000	0.00
39	1500.01	1499.57	0.0000	0.00
40	1620.80	1620.32	0.0000	0.00
41	1630.56	1630.08	0.0000	0.00
42	1729.26	1728.74	0.0000	0.00

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1764.94	1764.41	0.0000	0.00
44	1908.69	1908.11	0.0000	0.00
45	2184.99	2184.32	0.0000	0.00
46	2294.42	2293.72	0.0000	0.00
47	2417.93	2417.20	0.0000	0.00
48	2447.02	2446.29	0.0000	0.00
49	2614.86	2614.08	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:30:56AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	63.33	60 -	66	63.55	1.58E+02	97.42	1.60E+03	1.72
	2	76.25	72 -	83	76.46	1.03E+03	164.82	2.86E+03	3.67
m	3	87.75	83 -	98	87.96	3.45E+02	102.76	1.46E+03	2.71
m	4	92.54	83 -	98	92.75	3.24E+02	100.54	1.35E+03	2.73
	5	129.31	126 -	133	129.50	8.73E+01	83.59	1.10E+03	1.91
	6	186.30	183 -	190	186.46	1.66E+02	76.79	8.72E+02	1.69
	7	197.83	195 -	201	197.98	5.43E+01	61.89	6.61E+02	2.15
	8	209.84	207 -	213	209.99	6.35E+01	60.67	6.23E+02	1.82
M	9	238.81	235 -	249	238.94	7.18E+02	68.19	4.45E+02	1.65
m	10	242.05	235 -	249	242.17	1.62E+02	72.57	4.47E+02	1.89
	11	270.63	268 -	273	270.75	8.34E+01	47.74	3.83E+02	2.66
	12	277.70	275 -	281	277.81	4.26E+01	51.27	4.39E+02	1.76
	13	295.48	292 -	298	295.57	2.93E+02	55.61	3.47E+02	2.01
	14	300.75	299 -	304	300.85	5.35E+01	39.79	2.75E+02	1.47
	15	338.63	335 -	343	338.71	1.33E+02	56.52	4.10E+02	1.63
	16	352.19	348 -	356	352.26	3.99E+02	66.30	4.27E+02	1.71
M	17	450.61	445 -	467	450.63	2.86E+01	36.55	1.83E+02	2.52
m	18	463.43	445 -	467	463.44	3.84E+01	36.66	2.15E+02	2.53
	19	583.89	580 -	588	583.85	1.84E+02	43.38	1.67E+02	1.88
	20	609.53	606 -	613	609.47	3.15E+02	46.82	1.54E+02	1.99
	21	668.18	664 -	672	668.10	4.17E+01	32.24	1.33E+02	5.44
M	22	720.96	717 -	730	720.85	3.00E+01	25.59	9.80E+01	4.43
m	23	727.81	717 -	730	727.70	3.65E+01	24.90	8.40E+01	1.99
	24	796.75	793 -	801	796.61	2.95E+01	30.05	1.19E+02	1.14
	25	911.13	906 -	916	910.94	1.36E+02	38.07	1.20E+02	1.91
	26	935.60	929 -	941	935.40	5.03E+01	30.22	8.15E+01	6.03
M	27	965.05	963 -	975	964.83	1.57E+01	14.97	4.35E+01	2.63
m	28	969.22	963 -	975	969.00	9.28E+01	27.59	7.29E+01	2.20
	29	1003.27	1001 -	1005	1003.03	1.76E+01	17.88	5.29E+01	2.85
	30	1121.15	1116 -	1129	1120.86	9.65E+01	39.12	1.31E+02	1.77
	31	1156.21	1152 -	1160	1155.91	2.75E+01	25.23	8.10E+01	4.56
	32	1238.72	1234 -	1242	1238.39	3.62E+01	27.88	9.36E+01	3.11
	33	1246.37	1243 -	1250	1246.03	2.04E+01	19.80	5.13E+01	3.17
	34	1294.10	1289 -	1299	1293.74	2.39E+01	21.64	5.01E+01	1.99
	35	1339.24	1327 -	1350	1338.87	3.45E+01	40.55	1.05E+02	18.66
	36	1376.78	1373 -	1379	1376.39	2.39E+01	14.47	2.03E+01	1.97
	37	1407.19	1401 -	1411	1406.79	1.74E+01	16.35	2.33E+01	2.15
	38	1461.12	1455 -	1467	1460.70	5.80E+02	52.48	4.86E+01	2.32
	39	1500.01	1497 -	1502	1499.57	1.00E+01	8.37	6.00E+00	2.62
	40	1620.80	1618 -	1622	1620.32	4.86E+00	6.36	4.29E+00	1.56

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1630.56	1628 -	1632	1630.08	8.00E+00	7.25	4.00E+00	2.51
42	1729.26	1725 -	1731	1728.74	1.02E+01	7.76	3.67E+00	3.04
43	1764.94	1759 -	1770	1764.41	4.93E+01	15.62	5.31E+00	2.73
44	1908.69	1903 -	1913	1908.11	7.50E+00	10.61	1.10E+01	6.74
45	2184.99	2180 -	2187	2184.32	8.20E+00	7.48	3.60E+00	4.61
46	2294.42	2291 -	2296	2293.72	4.88E+00	7.07	6.25E+00	2.13
47	2417.93	2413 -	2420	2417.20	6.40E+00	8.49	7.20E+00	1.31
48	2447.02	2442 -	2449	2446.29	7.00E+00	5.29	0.00E+00	1.92
49	2614.86	2609 -	2617	2614.08	5.35E+01	16.51	9.00E+00	2.79

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:30:56AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	63.33	60 -	66	1.58E+02	97.42	1.60E+03	7.74E+01
	2	76.25	72 -	83	1.03E+03	164.82	2.86E+03	1.25E+02
m	3	87.75	83 -	98	3.45E+02	102.76	1.46E+03	6.27E+01
m	4	92.54	83 -	98	3.24E+02	100.54	1.35E+03	6.04E+01
	5	129.31	126 -	133	8.73E+01	83.59	1.10E+03	6.70E+01
	6	186.30	183 -	190	1.66E+02	76.79	8.72E+02	5.95E+01
	7	197.83	195 -	201	5.43E+01	61.89	6.61E+02	4.94E+01
	8	209.84	207 -	213	6.35E+01	60.67	6.23E+02	4.81E+01
M	9	238.81	235 -	249	7.18E+02	68.19	4.45E+02	3.47E+01
m	10	242.05	235 -	249	1.62E+02	72.57	4.47E+02	3.48E+01
	11	270.63	268 -	273	8.34E+01	47.74	3.83E+02	3.63E+01
	12	277.70	275 -	281	4.26E+01	51.27	4.39E+02	4.08E+01
	13	295.48	292 -	298	2.93E+02	55.61	3.47E+02	3.60E+01
	14	300.75	299 -	304	5.35E+01	39.79	2.75E+02	3.04E+01
	15	338.63	335 -	343	1.33E+02	56.52	4.10E+02	4.24E+01
	16	352.19	348 -	356	3.99E+02	66.30	4.27E+02	4.35E+01
M	17	450.61	445 -	467	2.86E+01	36.55	1.83E+02	2.22E+01
m	18	463.43	445 -	467	3.84E+01	36.66	2.15E+02	2.41E+01

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	19	583.89	580 -	588	1.84E+02	43.38	1.67E+02	2.78E+01
	20	609.53	606 -	613	3.15E+02	46.82	1.54E+02	2.51E+01
	21	668.18	664 -	672	4.17E+01	32.24	1.33E+02	2.43E+01
M	22	720.96	717 -	730	3.00E+01	25.59	9.80E+01	1.63E+01
m	23	727.81	717 -	730	3.65E+01	24.90	8.40E+01	1.51E+01
	24	796.75	793 -	801	2.95E+01	30.05	1.19E+02	2.30E+01
	25	911.13	906 -	916	1.36E+02	38.07	1.20E+02	2.47E+01
	26	935.60	929 -	941	5.03E+01	30.22	8.15E+01	2.19E+01
M	27	965.05	963 -	975	1.57E+01	14.97	4.35E+01	1.08E+01
m	28	969.22	963 -	975	9.28E+01	27.59	7.29E+01	1.40E+01
	29	1003.27	1001 -	1005	1.76E+01	17.88	5.29E+01	1.30E+01
	30	1121.15	1116 -	1129	9.65E+01	39.12	1.31E+02	1.35E+01
	31	1156.21	1152 -	1160	2.75E+01	25.23	8.10E+01	1.89E+01
	32	1238.72	1234 -	1242	3.62E+01	27.88	9.36E+01	2.07E+01
	33	1246.37	1243 -	1250	2.04E+01	19.80	5.13E+01	1.45E+01
	34	1294.10	1289 -	1299	2.39E+01	21.64	5.01E+01	1.59E+01
	35	1339.24	1327 -	1350	3.45E+01	40.55	1.05E+02	3.19E+01
	36	1376.78	1373 -	1379	2.39E+01	14.47	2.03E+01	8.78E+00
	37	1407.19	1401 -	1411	1.74E+01	16.35	2.33E+01	1.16E+01
	38	1461.12	1455 -	1467	5.80E+02	52.48	4.86E+01	1.72E+01
	39	1500.01	1497 -	1502	1.00E+01	8.37	6.00E+00	4.50E+00
	40	1620.80	1618 -	1622	4.86E+00	6.36	4.29E+00	3.77E+00
	41	1630.56	1628 -	1632	8.00E+00	7.25	4.00E+00	3.72E+00
	42	1729.26	1725 -	1731	1.02E+01	7.76	3.67E+00	3.64E+00
	43	1764.94	1759 -	1770	4.93E+01	15.62	5.31E+00	5.61E+00
	44	1908.69	1903 -	1913	7.50E+00	10.61	1.10E+01	7.47E+00
	45	2184.99	2180 -	2187	8.20E+00	7.48	3.60E+00	3.96E+00
	46	2294.42	2291 -	2296	4.88E+00	7.07	6.25E+00	4.54E+00
	47	2417.93	2413 -	2420	6.40E+00	8.49	7.20E+00	5.60E+00
	48	2447.02	2442 -	2449	7.00E+00	5.29	0.00E+00	0.00E+00
	49	2614.86	2609 -	2617	5.35E+01	16.51	9.00E+00	6.29E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 11:30:56AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	63.33	60 -	66	63.55	1.58E+02	97.42	1.60E+03	TH-234 TH-230
	2	76.25	72 -	83	76.46	1.03E+03	164.82	2.86E+03	.....
m	3	87.75	83 -	98	87.96	3.45E+02	102.76	1.46E+03	SN-126 CD-109 LU-176
m	4	92.54	83 -	98	92.75	3.24E+02	100.54	1.35E+03	GA-67
	5	129.31	126 -	133	129.50	8.73E+01	83.59	1.10E+03	.....
	6	186.30	183 -	190	186.46	1.66E+02	76.79	8.72E+02	RA-226
	7	197.83	195 -	201	197.98	5.43E+01	61.89	6.61E+02	.....
	8	209.84	207 -	213	209.99	6.35E+01	60.67	6.23E+02	CM-243 GA-67
M	9	238.81	235 -	249	238.94	7.18E+02	68.19	4.45E+02	PB-212
m	10	242.05	235 -	249	242.17	1.62E+02	72.57	4.47E+02	.....
	11	270.63	268 -	273	270.75	8.34E+01	47.74	3.83E+02	.....
	12	277.70	275 -	281	277.81	4.26E+01	51.27	4.39E+02	CM-243 NP-239
	13	295.48	292 -	298	295.57	2.93E+02	55.61	3.47E+02	PB-214
	14	300.75	299 -	304	300.85	5.35E+01	39.79	2.75E+02	GA-67 PB-212 BI-210M
	15	338.63	335 -	343	338.71	1.33E+02	56.52	4.10E+02	AC-228
	16	352.19	348 -	356	352.26	3.99E+02	66.30	4.27E+02	PB-214
M	17	450.61	445 -	467	450.63	2.86E+01	36.55	1.83E+02	.....
m	18	463.43	445 -	467	463.44	3.84E+01	36.66	2.15E+02	SB-125
	19	583.89	580 -	588	583.85	1.84E+02	43.38	1.67E+02	TL-208
	20	609.53	606 -	613	609.47	3.15E+02	46.82	1.54E+02	BI-214
	21	668.18	664 -	672	668.10	4.17E+01	32.24	1.33E+02	.....
M	22	720.96	717 -	730	720.85	3.00E+01	25.59	9.80E+01	SB-126
m	23	727.81	717 -	730	727.70	3.65E+01	24.90	8.40E+01	BI-212
	24	796.75	793 -	801	796.61	2.95E+01	30.05	1.19E+02	CS-134
	25	911.13	906 -	916	910.94	1.36E+02	38.07	1.20E+02	AC-228 LU-172
	26	935.60	929 -	941	935.40	5.03E+01	30.22	8.15E+01	.....
M	27	965.05	963 -	975	964.83	1.57E+01	14.97	4.35E+01	.....
m	28	969.22	963 -	975	969.00	9.28E+01	27.59	7.29E+01	AC-228
	29	1003.27	1001 -	1005	1003.03	1.76E+01	17.88	5.29E+01	.....
	30	1121.15	1116 -	1129	1120.86	9.65E+01	39.12	1.31E+02	TA-182 SC-46 BI-214
	31	1156.21	1152 -	1160	1155.91	2.75E+01	25.23	8.10E+01	.....
	32	1238.72	1234 -	1242	1238.39	3.62E+01	27.88	9.36E+01	CO-56
	33	1246.37	1243 -	1250	1246.03	2.04E+01	19.80	5.13E+01	.....
	34	1294.10	1289 -	1299	1293.74	2.39E+01	21.64	5.01E+01	AR-41
	35	1339.24	1327 -	1350	1338.87	3.45E+01	40.55	1.05E+02	.....
	36	1376.78	1373 -	1379	1376.39	2.39E+01	14.47	2.03E+01	.....
	37	1407.19	1401 -	1411	1406.79	1.74E+01	16.35	2.33E+01	EU-152
	38	1461.12	1455 -	1467	1460.70	5.80E+02	52.48	4.86E+01	K-40
	39	1500.01	1497 -	1502	1499.57	1.00E+01	8.37	6.00E+00	.....
	40	1620.80	1618 -	1622	1620.32	4.86E+00	6.36	4.29E+00	BI-212
	41	1630.56	1628 -	1632	1630.08	8.00E+00	7.25	4.00E+00	.....

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
42	1729.26	1725 -	1731	1728.74	1.02E+01	7.76	3.67E+00	.....
43	1764.94	1759 -	1770	1764.41	4.93E+01	15.62	5.31E+00	BI-214
44	1908.69	1903 -	1913	1908.11	7.50E+00	10.61	1.10E+01	.....
45	2184.99	2180 -	2187	2184.32	8.20E+00	7.48	3.60E+00	.....
46	2294.42	2291 -	2296	2293.72	4.88E+00	7.07	6.25E+00	.....
47	2417.93	2413 -	2420	2417.20	6.40E+00	8.49	7.20E+00	.....
48	2447.02	2442 -	2449	2446.29	7.00E+00	5.29	0.00E+00	.....
49	2614.86	2609 -	2617	2614.08	5.35E+01	16.51	9.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 11:30:56AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	63.33	1.58E+02	97.42	2.16E-02	1.71E-03
	2	76.25	1.03E+03	164.82	2.38E-02	2.14E-03
m	3	87.75	3.45E+02	102.76	2.44E-02	2.51E-03
m	4	92.54	3.24E+02	100.54	2.44E-02	2.42E-03
	5	129.31	8.73E+01	83.59	2.25E-02	1.70E-03
	6	186.30	1.66E+02	76.79	1.83E-02	1.42E-03
	7	197.83	5.43E+01	61.89	1.75E-02	1.37E-03
	8	209.84	6.35E+01	60.67	1.68E-02	1.31E-03
M	9	238.81	7.18E+02	68.19	1.52E-02	1.18E-03
m	10	242.05	1.62E+02	72.57	1.51E-02	1.17E-03
	11	270.63	8.34E+01	47.74	1.38E-02	1.04E-03
	12	277.70	4.26E+01	51.27	1.35E-02	1.00E-03
	13	295.48	2.93E+02	55.61	1.28E-02	9.74E-04
	14	300.75	5.35E+01	39.79	1.26E-02	9.66E-04
	15	338.63	1.33E+02	56.52	1.14E-02	9.12E-04
	16	352.19	3.99E+02	66.30	1.11E-02	8.93E-04
M	17	450.61	2.86E+01	36.55	8.94E-03	7.78E-04
m	18	463.43	3.84E+01	36.66	8.72E-03	7.66E-04
	19	583.89	1.84E+02	43.38	7.13E-03	6.45E-04
	20	609.53	3.15E+02	46.82	6.87E-03	6.20E-04
	21	668.18	4.17E+01	32.24	6.34E-03	5.62E-04
M	22	720.96	3.00E+01	25.59	5.94E-03	5.19E-04

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	23	727.81	3.65E+01	24.90	5.89E-03	5.14E-04
	24	796.75	2.95E+01	30.05	5.44E-03	4.57E-04
	25	911.13	1.36E+02	38.07	4.85E-03	3.72E-04
	26	935.60	5.03E+01	30.22	4.74E-03	3.68E-04
M	27	965.05	1.57E+01	14.97	4.62E-03	3.62E-04
m	28	969.22	9.28E+01	27.59	4.60E-03	3.61E-04
	29	1003.27	1.76E+01	17.88	4.47E-03	3.55E-04
	30	1121.15	9.65E+01	39.12	4.07E-03	3.33E-04
	31	1156.21	2.75E+01	25.23	3.97E-03	3.27E-04
	32	1238.72	3.62E+01	27.88	3.75E-03	3.09E-04
	33	1246.37	2.04E+01	19.80	3.74E-03	3.07E-04
	34	1294.10	2.39E+01	21.64	3.62E-03	2.97E-04
	35	1339.24	3.45E+01	40.55	3.53E-03	2.88E-04
	36	1376.78	2.39E+01	14.47	3.45E-03	2.82E-04
	37	1407.19	1.74E+01	16.35	3.39E-03	2.77E-04
	38	1461.12	5.80E+02	52.48	3.29E-03	2.69E-04
	39	1500.01	1.00E+01	8.37	3.23E-03	2.63E-04
	40	1620.80	4.86E+00	6.36	3.04E-03	2.45E-04
	41	1630.56	8.00E+00	7.25	3.03E-03	2.44E-04
	42	1729.26	1.02E+01	7.76	2.90E-03	2.29E-04
	43	1764.94	4.93E+01	15.62	2.86E-03	2.24E-04
	44	1908.69	7.50E+00	10.61	2.70E-03	2.13E-04
	45	2184.99	8.20E+00	7.48	2.48E-03	2.13E-04
	46	2294.42	4.88E+00	7.07	2.40E-03	2.13E-04
	47	2417.93	6.40E+00	8.49	2.33E-03	2.13E-04
	48	2447.02	7.00E+00	5.29	2.32E-03	2.13E-04
	49	2614.86	5.35E+01	16.51	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 11:30:56AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	63.33	1.58E+02	97.42	5.56E+01	4.78E+00	1.02E+02	9.75E+01
	2	76.25	1.03E+03	164.82			1.03E+03	1.65E+02
m	3	87.75	3.45E+02	102.76	1.61E+01	4.76E+00	3.29E+02	1.03E+02

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	4	92.54	3.24E+02	100.54	7.60E+01	2.07E+01	2.48E+02	1.03E+02
	5	129.31	8.73E+01	83.59			8.73E+01	8.36E+01
	6	186.30	1.66E+02	76.79	3.41E+01	6.16E+00	1.32E+02	7.70E+01
	7	197.83	5.43E+01	61.89			5.43E+01	6.19E+01
	8	209.84	6.35E+01	60.67			6.35E+01	6.07E+01
M	9	238.81	7.18E+02	68.19	1.57E+01	4.91E+00	7.02E+02	6.84E+01
m	10	242.05	1.62E+02	72.57			1.62E+02	7.26E+01
	11	270.63	8.34E+01	47.74			8.34E+01	4.77E+01
	12	277.70	4.26E+01	51.27			4.26E+01	5.13E+01
	13	295.48	2.93E+02	55.61	2.05E+00	6.38E+00	2.91E+02	5.60E+01
	14	300.75	5.35E+01	39.79			5.35E+01	3.98E+01
	15	338.63	1.33E+02	56.52			1.33E+02	5.65E+01
	16	352.19	3.99E+02	66.30	8.85E+00	4.53E+00	3.90E+02	6.65E+01
M	17	450.61	2.86E+01	36.55			2.86E+01	3.66E+01
m	18	463.43	3.84E+01	36.66			3.84E+01	3.67E+01
	19	583.89	1.84E+02	43.38	5.04E+00	3.45E+00	1.79E+02	4.35E+01
	20	609.53	3.15E+02	46.82	8.51E+00	1.93E+00	3.06E+02	4.69E+01
	21	668.18	4.17E+01	32.24			4.17E+01	3.22E+01
M	22	720.96	3.00E+01	25.59			3.00E+01	2.56E+01
m	23	727.81	3.65E+01	24.90			3.65E+01	2.49E+01
	24	796.75	2.95E+01	30.05			2.95E+01	3.00E+01
	25	911.13	1.36E+02	38.07	2.74E+00	2.96E+00	1.33E+02	3.82E+01
	26	935.60	5.03E+01	30.22			5.03E+01	3.02E+01
M	27	965.05	1.57E+01	14.97			1.57E+01	1.50E+01
m	28	969.22	9.28E+01	27.59	1.43E+00	2.58E+00	9.14E+01	2.77E+01
	29	1003.27	1.76E+01	17.88			1.76E+01	1.79E+01
	30	1121.15	9.65E+01	39.12			9.65E+01	3.91E+01
	31	1156.21	2.75E+01	25.23			2.75E+01	2.52E+01
	32	1238.72	3.62E+01	27.88			3.62E+01	2.79E+01
	33	1246.37	2.04E+01	19.80			2.04E+01	1.98E+01
	34	1294.10	2.39E+01	21.64			2.39E+01	2.16E+01
	35	1339.24	3.45E+01	40.55			3.45E+01	4.05E+01
	36	1376.78	2.39E+01	14.47			2.39E+01	1.45E+01
	37	1407.19	1.74E+01	16.35			1.74E+01	1.63E+01
	38	1461.12	5.80E+02	52.48	2.41E+00	1.70E+00	5.77E+02	5.25E+01
	39	1500.01	1.00E+01	8.37			1.00E+01	8.37E+00
	40	1620.80	4.86E+00	6.36			4.86E+00	6.36E+00
	41	1630.56	8.00E+00	7.25			8.00E+00	7.25E+00
	42	1729.26	1.02E+01	7.76			1.02E+01	7.76E+00
	43	1764.94	4.93E+01	15.62			4.93E+01	1.56E+01
	44	1908.69	7.50E+00	10.61			7.50E+00	1.06E+01
	45	2184.99	8.20E+00	7.48			8.20E+00	7.48E+00
	46	2294.42	4.88E+00	7.07			4.88E+00	7.07E+00
	47	2417.93	6.40E+00	8.49			6.40E+00	8.49E+00
	48	2447.02	7.00E+00	5.29			7.00E+00	5.29E+00
	49	2614.86	5.35E+01	16.51			5.35E+01	1.65E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 11:30:56AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	63.33	1.58E+02	97.42	5.56E+01	4.78E+00	1.02E+02	9.75E+01
	2	76.25	1.03E+03	164.82			1.03E+03	1.65E+02
m	3	87.75	3.45E+02	102.76	1.61E+01	4.76E+00	3.29E+02	1.03E+02
m	4	92.54	3.24E+02	100.54	7.60E+01	2.07E+01	2.48E+02	1.03E+02
	5	129.31	8.73E+01	83.59			8.73E+01	8.36E+01
	6	186.30	1.66E+02	76.79	3.41E+01	6.16E+00	1.32E+02	7.70E+01
	7	197.83	5.43E+01	61.89			5.43E+01	6.19E+01
	8	209.84	6.35E+01	60.67			6.35E+01	6.07E+01
M	9	238.81	7.18E+02	68.19	1.57E+01	4.91E+00	7.02E+02	6.84E+01
m	10	242.05	1.62E+02	72.57			1.62E+02	7.26E+01
	11	270.63	8.34E+01	47.74			8.34E+01	4.77E+01
	12	277.70	4.26E+01	51.27			4.26E+01	5.13E+01
	13	295.48	2.93E+02	55.61	2.05E+00	6.38E+00	2.91E+02	5.60E+01
	14	300.75	5.35E+01	39.79			5.35E+01	3.98E+01
	15	338.63	1.33E+02	56.52			1.33E+02	5.65E+01
	16	352.19	3.99E+02	66.30	8.85E+00	4.53E+00	3.90E+02	6.65E+01
M	17	450.61	2.86E+01	36.55			2.86E+01	3.66E+01
m	18	463.43	3.84E+01	36.66			3.84E+01	3.67E+01
	19	583.89	1.84E+02	43.38	5.04E+00	3.45E+00	1.79E+02	4.35E+01
	20	609.53	3.15E+02	46.82	8.51E+00	1.93E+00	3.06E+02	4.69E+01
	21	668.18	4.17E+01	32.24			4.17E+01	3.22E+01
M	22	720.96	3.00E+01	25.59			3.00E+01	2.56E+01
m	23	727.81	3.65E+01	24.90			3.65E+01	2.49E+01
	24	796.75	2.95E+01	30.05			2.95E+01	3.00E+01
	25	911.13	1.36E+02	38.07	2.74E+00	2.96E+00	1.33E+02	3.82E+01
	26	935.60	5.03E+01	30.22			5.03E+01	3.02E+01
M	27	965.05	1.57E+01	14.97			1.57E+01	1.50E+01
m	28	969.22	9.28E+01	27.59	1.43E+00	2.58E+00	9.14E+01	2.77E+01
	29	1003.27	1.76E+01	17.88			1.76E+01	1.79E+01
	30	1121.15	9.65E+01	39.12			9.65E+01	3.91E+01
	31	1156.21	2.75E+01	25.23			2.75E+01	2.52E+01
	32	1238.72	3.62E+01	27.88			3.62E+01	2.79E+01
	33	1246.37	2.04E+01	19.80			2.04E+01	1.98E+01
	34	1294.10	2.39E+01	21.64			2.39E+01	2.16E+01
	35	1339.24	3.45E+01	40.55			3.45E+01	4.05E+01
	36	1376.78	2.39E+01	14.47			2.39E+01	1.45E+01
	37	1407.19	1.74E+01	16.35			1.74E+01	1.63E+01
	38	1461.12	5.80E+02	52.48	2.41E+00	1.70E+00	5.77E+02	5.25E+01
	39	1500.01	1.00E+01	8.37			1.00E+01	8.37E+00

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
40	1620.80	4.86E+00	6.36			4.86E+00	6.36E+00
41	1630.56	8.00E+00	7.25			8.00E+00	7.25E+00
42	1729.26	1.02E+01	7.76			1.02E+01	7.76E+00
43	1764.94	4.93E+01	15.62			4.93E+01	1.56E+01
44	1908.69	7.50E+00	10.61			7.50E+00	1.06E+01
45	2184.99	8.20E+00	7.48			8.20E+00	7.48E+00
46	2294.42	4.88E+00	7.07			4.88E+00	7.07E+00
47	2417.93	6.40E+00	8.49			6.40E+00	8.49E+00
48	2447.02	7.00E+00	5.29			7.00E+00	5.29E+00
49	2614.86	5.35E+01	16.51			5.35E+01	1.65E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.985	1460.81	*	10.67	2.17E+01	2.69E+00
GA-67	0.602	93.31	*	35.70	2.27E+02	9.33E+02
		208.95	*	2.24	1.35E+03	5.45E+03
		300.22	*	16.00	2.12E+02	8.78E+02
CD-109	0.987	88.03	*	3.72	5.00E+00	1.67E+00
SN-126	0.995	87.57	*	37.00	4.81E-01	1.58E-01
TL-208	0.847	583.14	*	30.22	1.10E+00	2.84E-01
		860.37		4.48		
		2614.66	*	35.85	8.79E-01	2.84E-01
BI-212	0.947	727.17	*	11.80	6.93E-01	4.77E-01
		1620.62	*	2.75	7.66E-01	1.01E+00
PB-212	0.990	238.63	*	44.60	1.37E+00	1.70E-01
		300.09	*	3.41	1.64E+00	1.23E+00
BI-214	0.901	609.31	*	46.30	1.27E+00	2.26E-01
		1120.29	*	15.10	2.07E+00	8.55E-01
		1764.49	*	15.80	1.44E+00	4.70E-01
		2204.22		4.98		
PB-214	0.988	295.21	*	19.19	1.56E+00	3.23E-01
		351.92	*	37.19	1.25E+00	2.36E-01
RA-226	0.999	186.21	*	3.28	2.90E+00	5.58E+00
AC-228	0.996	338.32	*	11.40	1.35E+00	5.82E-01

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AC-228	0.996	911.07	*	27.70	1.31E+00	3.88E-01
		969.11	*	16.60	1.58E+00	4.94E-01
TH-234	1.000	63.29	*	3.80	1.64E+00	1.57E+00
CM-243	0.370	209.75	*	3.29	1.52E+00	1.46E+00
		228.14		10.60		
		277.60	*	14.00	2.99E-01	3.60E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:30:56AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.25	2.87135E-01	7.97		
	5	129.31	2.42607E-02	47.86		
	7	197.83	1.50786E-02	57.01		
m	10	242.05	4.51031E-02	22.35		
	11	270.63	2.31586E-02	28.63		
M	17	450.61	7.93915E-03	63.94		
m	18	463.43	1.06802E-02	47.67	Sum	
	21	668.18	1.15741E-02	38.69		
M	22	720.96	8.32590E-03	42.69	Tol.	SB-126
	24	796.75	8.18196E-03	51.00	Sum	
	26	935.60	1.39652E-02	30.05	Sum	
M	27	965.05	4.35964E-03	47.68		
	29	1003.27	4.87689E-03	50.92	Sum	
	31	1156.21	7.63889E-03	45.87	Sum	
	32	1238.72	1.00619E-02	38.49		
	33	1246.37	5.65821E-03	48.60	Sum	
	34	1294.10	6.64683E-03	45.22		
	35	1339.24	9.57854E-03	58.79		
	36	1376.78	6.62582E-03	30.34		
	37	1407.19	4.82280E-03	47.08	Tol.	EU-152
	39	1500.01	2.77778E-03	41.83		
	41	1630.56	2.22222E-03	45.29		
	42	1729.26	2.82407E-03	38.17		

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
44	1908.69	2.08333E-03	70.71		
45	2184.99	2.27778E-03	45.63		
46	2294.42	1.35417E-03	72.52		
47	2417.93	1.77778E-03	66.29		
48	2447.02	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	2.17E+01	2.69E+00
GA-67	0.60	93.31	*	35.70	2.27E+02	9.33E+02
		208.95	*	2.24	1.35E+03	5.45E+03
		300.22	*	16.00	2.12E+02	8.78E+02
CD-109	0.98	88.03	*	3.72	5.00E+00	1.67E+00
SN-126	0.99	87.57	*	37.00	4.81E-01	1.58E-01
TL-208	0.84	583.14	*	30.22	1.10E+00	2.84E-01
		860.37		4.48		
		2614.66	*	35.85	8.79E-01	2.84E-01
BI-212	0.94	727.17	*	11.80	6.93E-01	4.77E-01
		1620.62	*	2.75	7.66E-01	1.01E+00
PB-212	0.99	238.63	*	44.60	1.37E+00	1.70E-01
		300.09	*	3.41	1.64E+00	1.23E+00
BI-214	0.90	609.31	*	46.30	1.27E+00	2.26E-01
		1120.29	*	15.10	2.07E+00	8.55E-01
		1764.49	*	15.80	1.44E+00	4.70E-01
		2204.22		4.98		
PB-214	0.98	295.21	*	19.19	1.56E+00	3.23E-01
		351.92	*	37.19	1.25E+00	2.36E-01
RA-226	0.99	186.21	*	3.28	2.90E+00	5.58E+00
AC-228	0.99	338.32	*	11.40	1.35E+00	5.82E-01
		911.07	*	27.70	1.31E+00	3.88E-01
		969.11	*	16.60	1.58E+00	4.94E-01

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TH-234	1.00	63.29	*	3.80	1.64E+00	1.57E+00
CM-243	0.37	209.75	*	3.29	1.52E+00	1.46E+00
		228.14		10.60		
		277.60	*	14.00	2.99E-01	3.60E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.985	2.17E+01	2.69E+00	
	GA-67	0.602	1.79E+02	7.09E+02	
?	CD-109	0.987	5.00E+00	1.67E+00	
?	SN-126	0.995	4.81E-01	1.58E-01	
	TL-208	0.847	9.88E-01	2.01E-01	
	BI-212	0.947	7.07E-01	4.31E-01	
	PB-212	0.990	1.34E+00	1.69E-01	
	BI-214	0.901	1.34E+00	1.98E-01	
	PB-214	0.988	1.36E+00	1.91E-01	
	RA-226	0.999	2.90E+00	5.58E+00	
	AC-228	0.996	1.40E+00	2.70E-01	
	TH-234	1.000	1.64E+00	1.57E+00	
	CM-243	0.370	3.57E-01	3.49E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:30:56AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.25	2.87135E-01	7.97		
	5	129.31	2.42607E-02	47.86		
	7	197.83	1.50786E-02	57.01		
m	10	242.05	4.51031E-02	22.35		
	11	270.63	2.31586E-02	28.63		
M	17	450.61	7.93915E-03	63.94		
m	18	463.43	1.06802E-02	47.67	Sum	
	21	668.18	1.15741E-02	38.69		
M	22	720.96	8.32590E-03	42.69	Tol.	SB-126
	24	796.75	8.18196E-03	51.00	Sum	
	26	935.60	1.39652E-02	30.05	Sum	
M	27	965.05	4.35964E-03	47.68		
	29	1003.27	4.87689E-03	50.92	Sum	
	31	1156.21	7.63889E-03	45.87	Sum	
	32	1238.72	1.00619E-02	38.49		
	33	1246.37	5.65821E-03	48.60	Sum	
	34	1294.10	6.64683E-03	45.22		
	35	1339.24	9.57854E-03	58.79		
	36	1376.78	6.62582E-03	30.34		
	37	1407.19	4.82280E-03	47.08	Tol.	EU-152
	39	1500.01	2.77778E-03	41.83		
	41	1630.56	2.22222E-03	45.29		
	42	1729.26	2.82407E-03	38.17		
	44	1908.69	2.08333E-03	70.71		
	45	2184.99	2.27778E-03	45.63		
	46	2294.42	1.35417E-03	72.52		
	47	2417.93	1.77778E-03	66.29		
	48	2447.02	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	5.20E-01	1.14E+00	1.14E+00
+	NA-22	1274.54		99.94	1.96E-04	1.27E-01	1.27E-01
+	NA-24	1368.53		99.99	-2.16E+12	1.84E+13	3.67E+13
		2754.09		99.86	9.91E+11		1.84E+13
+	AL-26	1808.65		99.76	-3.36E-03	7.07E-02	7.07E-02
+	K-40	1460.81	*	10.67	2.17E+01	1.41E+00	1.41E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-1.81E-03	7.18E-02	7.18E-02
		78.34		96.00	2.52E-01		9.38E-02
+	SC-46	889.25		99.98	-6.45E-03	1.16E-01	1.16E-01
		1120.51		99.99	2.85E-01		2.17E-01
+	V-48	983.52		99.98	8.09E-02	3.89E-01	3.89E-01
		1312.10		97.50	1.63E-01		4.97E-01
+	CR-51	320.08		9.83	-4.88E-01	1.42E+00	1.42E+00
+	MN-54	834.83		99.97	-6.95E-02	1.03E-01	1.03E-01
+	CO-56	846.75		99.96	2.37E-02	1.20E-01	1.20E-01
		1037.75		14.03	3.38E-01		9.76E-01
		1238.25		67.00	2.44E-01		2.88E-01
		1771.40		15.51	5.19E-02		6.48E-01
		2598.48		16.90	9.06E-02		5.94E-01
+	CO-57	122.06		85.51	8.51E-03	6.54E-02	6.54E-02
		136.48		10.60	7.56E-02		5.42E-01
+	CO-58	810.76		99.40	-3.59E-02	1.14E-01	1.14E-01
+	FE-59	1099.22		56.50	-1.95E-01	2.79E-01	2.79E-01
		1291.56		43.20	-8.96E-03		4.27E-01
+	CO-60	1173.22		100.00	3.78E-02	1.15E-01	1.19E-01
		1332.49		100.00	5.38E-02		1.15E-01
+	ZN-65	1115.52		50.75	-3.00E-02	1.83E-01	1.83E-01
+	GA-67	93.31	*	35.70	2.27E+02	2.45E+02	2.45E+02
		208.95	*	2.24	1.35E+03		2.10E+03
		300.22	*	16.00	2.12E+02		2.51E+02
+	SE-75	121.11		16.70	4.26E-02	1.07E-01	3.71E-01
		136.00		59.20	3.68E-02		1.07E-01
		264.65		59.80	-2.22E-02		1.37E-01
		279.53		25.20	5.63E-02		3.60E-01
		400.65		11.40	2.16E-01		8.36E-01
+	RB-82	776.52		13.00	-4.07E-01	1.59E+00	1.59E+00
+	RB-83	520.41		46.00	-1.13E-01	2.05E-01	2.05E-01
		529.64		30.30	6.01E-02		3.43E-01
		552.65		16.40	-5.48E-01		5.47E-01

Analysis Report for 1506114-13

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	KR-85	513.99		0.43	4.22E+01	2.60E+01	2.60E+01
+	SR-85	513.99		99.27	2.53E-01	1.56E-01	1.56E-01
+	Y-88	898.02		93.40	-1.31E-03	8.19E-02	1.07E-01
		1836.01		99.38	-3.29E-02		8.19E-02
+	NB-93M	16.57		9.43	-2.20E+00	8.90E+01	8.90E+01
+	NB-94	702.63		100.00	5.58E-02	8.78E-02	9.11E-02
		871.10		100.00	1.70E-02		8.78E-02
+	NB-95	765.79		99.81	5.22E-02	1.89E-01	1.89E-01
+	NB-95M	235.69		25.00	-3.56E+00	1.58E+02	1.58E+02
+	ZR-95	724.18		43.70	-4.17E-02	2.45E-01	3.47E-01
		756.72		55.30	-1.81E-02		2.45E-01
+	MO-99	181.06		6.20	1.23E+02	1.16E+03	1.78E+03
		739.58		12.80	-1.18E+03		1.16E+03
		778.00		4.50	-3.10E+03		3.90E+03
+	RU-103	497.08		89.00	-2.09E-02	1.38E-01	1.38E-01
+	RU-106	621.84		9.80	2.22E-01	9.07E-01	9.07E-01
+	AG-108M	433.93		89.90	-5.09E-03	8.15E-02	8.15E-02
		614.37		90.40	-4.70E-03		1.01E-01
		722.95		90.50	-2.35E-01		1.06E-01
+	CD-109	88.03	*	3.72	5.00E+00	4.04E+00	4.04E+00
+	AG-110M	657.75		93.14	-2.81E-02	1.02E-01	1.02E-01
		677.61		10.53	5.40E-01		9.23E-01
		706.67		16.46	-4.35E-01		5.63E-01
		763.93		21.98	-2.07E-01		4.87E-01
		884.67		71.63	-5.53E-02		1.34E-01
		1384.27		23.94	-2.08E-01		4.45E-01
+	CD-113M	263.70		0.02	-1.21E+02	2.97E+02	2.97E+02
+	SN-113	255.12		1.93	-3.01E+00	1.32E-01	3.87E+00
		391.69		64.90	-3.37E-02		1.32E-01
+	TE123M	159.00		84.10	1.14E-02	7.73E-02	7.73E-02
+	SB-124	602.71		97.87	2.96E-02	1.23E-01	1.23E-01
		645.85		7.26	9.85E-01		1.65E+00
		722.78		11.10	-2.71E+00		1.22E+00
		1691.02		49.00	-7.38E-02		1.94E-01
+	I-125	35.49		6.49	-1.82E+00	3.37E+00	3.37E+00
+	SB-125	176.33		6.89	-1.81E-01	2.75E-01	7.83E-01
		427.89		29.33	4.46E-02		2.75E-01
		463.38		10.35	6.93E-01		8.31E-01
		600.56		17.80	1.36E-01		4.90E-01
		635.90		11.32	4.40E-01		7.82E-01
+	SB-126	414.70		83.30	-8.00E-02	4.62E-01	5.06E-01
		666.33		99.60	-3.26E-02		5.15E-01
		695.00		99.60	-1.04E-01		4.62E-01
		720.50		53.80	1.94E-01		9.75E-01
+	SN-126	87.57	*	37.00	4.81E-01	3.88E-01	3.88E-01
+	SB-127	473.00		25.00	-3.41E+01	5.36E+01	6.59E+01
		685.20		35.70	-2.65E+01		5.36E+01
		783.80		14.70	4.77E+01		1.56E+02

Analysis Report for 1506114-13

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		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		I-129	29.78	57.00	-3.42E-02	4.85E-01	4.85E-01
			33.60	13.20	1.04E+00		1.44E+00
			39.58	7.52	3.64E-01		1.63E+00
+		I-131	284.30	6.05	4.33E+00	1.16E+00	1.53E+01
			364.48	81.20	-1.32E-01		1.16E+00
			636.97	7.26	6.07E+00		1.59E+01
			722.89	1.80	-1.59E+02		7.15E+01
+		TE-132	49.72	13.10	-5.09E+02	4.99E+01	3.57E+02
			228.16	88.00	1.42E+01		4.99E+01
+		BA-133	81.00	33.00	-7.85E-01	1.63E-01	1.83E-01
			302.84	17.80	9.33E-03		4.22E-01
			356.01	60.00	-9.79E-03		1.63E-01
+		I-133	529.87	86.30	4.87E+08	2.78E+09	2.78E+09
+		CS-134	563.23	8.38	-1.05E-01	9.84E-02	1.01E+00
			569.32	15.43	-2.28E-01		4.98E-01
			604.70	97.60	6.37E-03		9.84E-02
			795.84	85.40	5.28E-02		1.26E-01
			801.93	8.73	-8.56E-02		1.10E+00
+		CS-135	268.24	16.00	7.29E-02	5.06E-01	5.06E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	-4.16E-01	3.86E-01	3.64E+00
			163.89	4.61	1.16E+00		5.86E+00
			176.55	13.56	-9.86E-01		1.89E+00
			273.65	12.66	-2.37E+00		3.01E+00
			340.57	48.50	1.84E+00		9.65E-01
			818.50	99.70	-1.02E-01		3.86E-01
			1048.07	79.60	2.26E-01		6.04E-01
			1235.34	19.70	8.12E-02		3.60E+00
+		CS-137	661.65	85.12	4.48E-02	1.13E-01	1.13E-01
+		LA-138	788.74	34.00	7.71E-02	1.41E-01	2.92E-01
			1435.80	66.00	-1.17E-02		1.41E-01
+		CE-139	165.85	80.35	3.46E-02	7.98E-02	7.98E-02
+		BA-140	162.64	6.70	1.07E+00	1.72E+00	4.20E+00
			304.84	4.50	-1.98E+00		7.70E+00
			423.70	3.20	4.71E+00		1.35E+01
			437.55	2.00	7.57E+00		1.93E+01
			537.32	25.00	-3.70E-02		1.72E+00
+		LA-140	328.77	20.50	8.60E-01	5.52E-01	1.92E+00
			487.03	45.50	3.65E-01		8.75E-01
			815.85	23.50	1.08E-01		1.81E+00
			1596.49	95.49	2.94E-01		5.52E-01
+		CE-141	145.44	48.40	6.31E-02	2.20E-01	2.20E-01
+		CE-143	57.36	11.80	-7.91E+05	9.93E+05	2.50E+06
			293.26	42.00	5.22E+04		9.93E+05
			664.55	5.20	1.39E+05		7.08E+06
+		CE-144	133.54	10.80	2.86E-02	5.31E-01	5.31E-01
+		PM-144	476.78	42.00	1.30E-01	8.92E-02	2.04E-01

Analysis Report for 1506114-13

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	618.01	98.60	9.97E-03	8.92E-02	8.92E-02
		696.49	99.49	-1.63E-02		9.03E-02
+	PM-145	36.85	21.70	-5.05E-01	3.46E-01	6.40E-01
		37.36	39.70	1.29E-01		3.46E-01
		42.30	15.10	-6.56E-01		7.15E-01
		72.40	2.31	-7.01E+00		3.56E+00
+	PM-146	453.90	39.94	1.10E-01	2.02E-01	2.02E-01
		735.90	14.01	3.47E-02		5.81E-01
		747.13	13.10	-2.63E-01		6.47E-01
+	ND-147	91.11	28.90	-8.75E-01	1.65E+00	1.65E+00
		531.02	13.10	2.50E+00		4.31E+00
+	PM-149	285.90	3.10	-3.09E+03	2.83E+04	2.83E+04
+	EU-152	121.78	20.50	3.30E-02	2.53E-01	2.53E-01
		244.69	5.40	-5.90E-01		1.51E+00
		344.27	19.13	3.52E-03		3.78E-01
		778.89	9.20	-1.46E-01		9.97E-01
		964.01	10.40	6.35E-03		1.04E+00
		1085.78	7.22	1.30E-01		1.42E+00
		1112.02	9.60	2.62E-01		1.04E+00
		1407.95	14.94	-1.83E-01		6.15E-01
+	GD-153	97.43	31.30	5.03E-02	1.81E-01	1.81E-01
		103.18	22.20	-4.67E-02		2.49E-01
+	EU-154	123.07	40.50	2.66E-02	1.31E-01	1.31E-01
		723.30	19.70	-1.09E+00		4.90E-01
		873.19	11.50	2.05E-01		7.94E-01
		996.32	10.30	-3.30E-01		9.31E-01
		1004.76	17.90	-3.19E-02		6.28E-01
		1274.45	35.50	5.42E-04		3.53E-01
+	EU-155	86.50	30.90	1.67E-01	2.36E-01	2.36E-01
		105.30	20.70	2.41E-03		2.48E-01
+	EU-156	811.77	10.40	-9.08E-02	3.30E+00	3.30E+00
		1153.47	7.20	2.98E-01		6.54E+00
		1230.71	8.90	-3.49E-01		5.58E+00
+	HO-166M	184.41	72.60	1.34E-01	9.77E-02	9.77E-02
		280.45	29.60	6.15E-02		2.56E-01
		410.94	11.10	2.65E-01		7.26E-01
		711.69	54.10	1.79E-01		1.87E-01
+	TM-171	66.72	0.14	2.02E+01	5.03E+01	5.03E+01
+	HF-172	81.75	4.52	-3.93E+00	4.91E-01	1.39E+00
		125.81	11.30	7.89E-02		4.91E-01
+	LU-172	181.53	20.60	8.15E-01	3.93E+00	6.12E+00
		810.06	16.63	-2.84E-01		1.22E+01
		912.12	15.25	4.58E+01		2.50E+01
		1093.66	62.50	2.00E+00		3.93E+00
+	LU-173	100.72	5.24	1.80E-01	4.03E-01	1.03E+00
		272.11	21.20	2.99E-01		4.03E-01
+	HF-175	343.40	84.00	-3.48E-02	1.15E-01	1.15E-01
+	LU-176	88.34	13.30	3.89E-01	7.22E-02	5.63E-01
		201.83	86.00	1.49E-02		8.21E-02

Analysis Report for 1506114-13

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-176	306.78		94.00	-2.18E-02	7.22E-02	7.22E-02
+	TA-182	67.75		41.20	-4.99E-03	1.97E-01	1.97E-01
		1121.30		34.90	9.55E-01		6.05E-01
		1189.05		16.23	-1.37E-01		8.26E-01
		1221.41		26.98	-3.46E-02		5.70E-01
		1231.02		11.44	4.86E-02		1.31E+00
+	IR-192	308.46		29.68	2.28E-01	1.96E-01	3.11E-01
		468.07		48.10	9.99E-03		1.96E-01
+	HG-203	279.19		77.30	2.16E-02	1.54E-01	1.54E-01
+	BI-207	569.67		97.72	-1.96E-02	7.93E-02	7.93E-02
		1063.62		74.90	1.00E-01		1.45E-01
+	TL-208	583.14	*	30.22	1.10E+00	2.51E-01	3.62E-01
		860.37		4.48	5.84E-01		2.06E+00
		2614.66	*	35.85	8.79E-01		2.51E-01
+	BI-210M	262.00		45.00	-2.52E-02	1.50E-01	1.50E-01
		300.00		23.00	-1.38E+00		3.34E-01
+	PB-210	46.50		4.25	2.50E+00	2.28E+00	2.28E+00
+	PB-211	404.84		2.90	-1.07E+00	2.72E+00	2.72E+00
		831.96		2.90	-5.67E-01		3.25E+00
+	BI-212	727.17	*	11.80	6.93E-01	1.28E+00	1.28E+00
		1620.62	*	2.75	7.66E-01		1.62E+00
+	PB-212	238.63	*	44.60	1.37E+00	3.30E-01	3.30E-01
		300.09	*	3.41	1.64E+00		1.95E+00
+	BI-214	609.31	*	46.30	1.27E+00	2.24E-01	2.24E-01
		1120.29	*	15.10	2.07E+00		1.25E+00
		1764.49	*	15.80	1.44E+00		4.07E-01
		2204.22		4.98	4.54E-01		2.02E+00
+	PB-214	295.21	*	19.19	1.56E+00	2.91E-01	4.06E-01
		351.92	*	37.19	1.25E+00		2.91E-01
+	RN-219	401.80		6.50	8.83E-01	1.25E+00	1.25E+00
+	RA-223	323.87		3.88	-2.14E+00	1.75E+00	1.75E+00
+	RA-224	240.98		3.95	1.99E+01	3.53E+00	3.53E+00
+	RA-225	40.00		31.00	3.53E-01	1.58E+00	1.58E+00
+	RA-226	186.21	*	3.28	2.90E+00	2.72E+00	2.72E+00
+	TH-227	50.10		8.40	-1.29E+00	9.05E-01	9.05E-01
		236.00		11.50	-2.38E-02		1.06E+00
		256.20		6.30	-2.25E-01		1.02E+00
+	AC-228	338.32	*	11.40	1.35E+00	5.17E-01	8.87E-01
		911.07	*	27.70	1.31E+00		5.17E-01
		969.11	*	16.60	1.58E+00		9.65E-01
+	TH-230	48.44		16.90	-1.20E-01	5.07E-01	5.07E-01
		62.85		4.60	2.39E+00		1.72E+00
		67.67		0.37	-4.63E-01		1.83E+01
+	PA-231	283.67		1.60	1.22E+00	3.25E+00	4.30E+00
		302.67		2.30	7.17E-02		3.25E+00
+	TH-231	25.64		14.70	-9.80E-01	9.64E-01	3.44E+00
		84.21		6.40	-2.32E+00		9.64E-01
+	PA-233	311.98		38.60	6.05E-02	3.77E-01	3.77E-01

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PA-234	131.20		20.40	1.53E-01	2.80E-01	2.80E-01
		733.99		8.80	3.85E-02		9.46E-01
		946.00		12.00	2.78E-01		7.68E-01
+	PA-234M	1001.03		0.92	-5.03E-01	1.26E+01	1.26E+01
+	TH-234	63.29	*	3.80	1.64E+00	2.57E+00	2.57E+00
+	U-235	143.76		10.50	1.38E-01	5.31E-01	5.31E-01
		163.35		4.70	2.32E-01		1.17E+00
		205.31		4.70	3.06E-01		1.46E+00
+	NP-237	86.50		12.60	4.06E-01	5.71E-01	5.71E-01
+	NP-239	106.10		22.70	-3.49E+02	1.58E+03	1.58E+03
		228.18		10.70	1.36E+03		4.80E+03
		277.60		14.10	1.89E+03		3.85E+03
+	AM-241	59.54		35.90	-5.02E-03	2.08E-01	2.08E-01
+	AM-243	74.67		66.00	4.14E-01	1.51E-01	1.51E-01
+	CM-243	209.75	*	3.29	1.52E+00	5.90E-01	2.37E+00
		228.14		10.60	1.94E-01		6.82E-01
		277.60	*	14.00	2.99E-01		5.90E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	1.14E+00	1.14E+00	5.20E-01	5.40E-01
NA-22	1274.54	99.94	1.27E-01	1.27E-01	1.96E-04	5.87E-02
NA-24	1368.53	99.99	3.67E+13	1.84E+13	-2.16E+12	1.67E+13
	2754.09	99.86	1.84E+13		9.91E+11	6.52E+12
AL-26	1808.65	99.76	7.07E-02	7.07E-02	-3.36E-03	2.90E-02

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	K-40	1460.81	*	10.67	1.41E+00	1.41E+00	2.17E+01	6.54E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.18E-02	7.18E-02	-1.81E-03	3.50E-02
		78.34		96.00	9.38E-02		2.52E-01	4.61E-02
	SC-46	889.25		99.98	1.16E-01	1.16E-01	-6.45E-03	5.33E-02
		1120.51		99.99	2.17E-01		2.85E-01	1.03E-01
	V-48	983.52		99.98	3.89E-01	3.89E-01	8.09E-02	1.80E-01
		1312.10		97.50	4.97E-01		1.63E-01	2.30E-01
	CR-51	320.08		9.83	1.42E+00	1.42E+00	-4.88E-01	6.80E-01
	MN-54	834.83		99.97	1.03E-01	1.03E-01	-6.95E-02	4.78E-02
	CO-56	846.75		99.96	1.20E-01	1.20E-01	2.37E-02	5.53E-02
		1037.75		14.03	9.76E-01		3.38E-01	4.50E-01
		1238.25		67.00	2.88E-01		2.44E-01	1.35E-01
		1771.40		15.51	6.48E-01		5.19E-02	2.72E-01
		2598.48		16.90	5.94E-01		9.06E-02	2.36E-01
	CO-57	122.06		85.51	6.54E-02	6.54E-02	8.51E-03	3.17E-02
		136.48		10.60	5.42E-01		7.56E-02	2.63E-01
	CO-58	810.76		99.40	1.14E-01	1.14E-01	-3.59E-02	5.24E-02
	FE-59	1099.22		56.50	2.79E-01	2.79E-01	-1.95E-01	1.27E-01
		1291.56		43.20	4.27E-01		-8.96E-03	1.95E-01
	CO-60	1173.22		100.00	1.19E-01	1.15E-01	3.78E-02	5.48E-02
		1332.49		100.00	1.15E-01		5.38E-02	5.26E-02
	ZN-65	1115.52		50.75	1.83E-01	1.83E-01	-3.00E-02	8.21E-02
+	GA-67	93.31	*	35.70	2.45E+02	2.45E+02	2.27E+02	1.21E+02
		208.95	*	2.24	2.10E+03		1.35E+03	1.02E+03
		300.22	*	16.00	2.51E+02		2.12E+02	1.20E+02
	SE-75	121.11		16.70	3.71E-01	1.07E-01	4.26E-02	1.80E-01
		136.00		59.20	1.07E-01		3.68E-02	5.19E-02
		264.65		59.80	1.37E-01		-2.22E-02	6.59E-02
		279.53		25.20	3.60E-01		5.63E-02	1.74E-01
		400.65		11.40	8.36E-01		2.16E-01	3.99E-01
	RB-82	776.52		13.00	1.59E+00	1.59E+00	-4.07E-01	7.38E-01
	RB-83	520.41		46.00	2.05E-01	2.05E-01	-1.13E-01	9.64E-02
		529.64		30.30	3.43E-01		6.01E-02	1.62E-01
		552.65		16.40	5.47E-01		-5.48E-01	2.55E-01
	KR-85	513.99		0.43	2.60E+01	2.60E+01	4.22E+01	1.25E+01
	SR-85	513.99		99.27	1.56E-01	1.56E-01	2.53E-01	7.49E-02
	Y-88	898.02		93.40	1.07E-01	8.19E-02	-1.31E-03	4.88E-02
		1836.01		99.38	8.19E-02		-3.29E-02	3.31E-02
	NB-93M	16.57		9.43	8.90E+01	8.90E+01	-2.20E+00	4.34E+01
	NB-94	702.63		100.00	9.11E-02	8.78E-02	5.58E-02	4.26E-02
		871.10		100.00	8.78E-02		1.70E-02	4.04E-02
	NB-95	765.79		99.81	1.89E-01	1.89E-01	5.22E-02	8.86E-02
	NB-95M	235.69		25.00	1.58E+02	1.58E+02	-3.56E+00	7.76E+01
	ZR-95	724.18		43.70	3.47E-01	2.45E-01	-4.17E-02	1.64E-01
		756.72		55.30	2.45E-01		-1.81E-02	1.15E-01
	MO-99	181.06		6.20	1.78E+03	1.16E+03	1.23E+02	8.58E+02
		739.58		12.80	1.16E+03		-1.18E+03	5.31E+02
		778.00		4.50	3.90E+03		-3.10E+03	1.81E+03
	RU-103	497.08		89.00	1.38E-01	1.38E-01	-2.09E-02	6.51E-02
	RU-106	621.84		9.80	9.07E-01	9.07E-01	2.22E-01	4.25E-01
	AG-108M	433.93		89.90	8.15E-02	8.15E-02	-5.09E-03	3.86E-02
		614.37		90.40	1.01E-01		-4.70E-03	4.77E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-108M	722.95		90.50	1.06E-01	8.15E-02	-2.35E-01	4.96E-02
+	CD-109	88.03	*	3.72	4.04E+00	4.04E+00	5.00E+00	2.00E+00
	AG-110M	657.75		93.14	1.02E-01	1.02E-01	-2.81E-02	4.79E-02
		677.61		10.53	9.23E-01		5.40E-01	4.32E-01
		706.67		16.46	5.63E-01		-4.35E-01	2.62E-01
		763.93		21.98	4.87E-01		-2.07E-01	2.28E-01
		884.67		71.63	1.34E-01		-5.53E-02	6.14E-02
		1384.27		23.94	4.45E-01		-2.08E-01	1.99E-01
	CD-113M	263.70		0.02	2.97E+02	2.97E+02	-1.21E+02	1.43E+02
	SN-113	255.12		1.93	3.87E+00	1.32E-01	-3.01E+00	1.86E+00
		391.69		64.90	1.32E-01		-3.37E-02	6.26E-02
	TE123M	159.00		84.10	7.73E-02	7.73E-02	1.14E-02	3.74E-02
	SB-124	602.71		97.87	1.23E-01	1.23E-01	2.96E-02	5.79E-02
		645.85		7.26	1.65E+00		9.85E-01	7.71E-01
		722.78		11.10	1.22E+00		-2.71E+00	5.72E-01
		1691.02		49.00	1.94E-01		-7.38E-02	7.95E-02
	I-125	35.49		6.49	3.37E+00	3.37E+00	-1.82E+00	1.64E+00
	SB-125	176.33		6.89	7.83E-01	2.75E-01	-1.81E-01	3.78E-01
		427.89		29.33	2.75E-01		4.46E-02	1.31E-01
		463.38		10.35	8.31E-01		6.93E-01	3.96E-01
		600.56		17.80	4.90E-01		1.36E-01	2.30E-01
		635.90		11.32	7.82E-01		4.40E-01	3.67E-01
	SB-126	414.70		83.30	5.06E-01	4.62E-01	-8.00E-02	2.41E-01
		666.33		99.60	5.15E-01		-3.26E-02	2.42E-01
		695.00		99.60	4.62E-01		-1.04E-01	2.15E-01
		720.50		53.80	9.75E-01		1.94E-01	4.57E-01
+	SN-126	87.57	*	37.00	3.88E-01	3.88E-01	4.81E-01	1.92E-01
	SB-127	473.00		25.00	6.59E+01	5.36E+01	-3.41E+01	3.10E+01
		685.20		35.70	5.36E+01		-2.65E+01	2.50E+01
		783.80		14.70	1.56E+02		4.77E+01	7.29E+01
	I-129	29.78		57.00	4.85E-01	4.85E-01	-3.42E-02	2.36E-01
		33.60		13.20	1.44E+00		1.04E+00	7.00E-01
		39.58		7.52	1.63E+00		3.64E-01	7.93E-01
	I-131	284.30		6.05	1.53E+01	1.16E+00	4.33E+00	7.36E+00
		364.48		81.20	1.16E+00		-1.32E-01	5.54E-01
		636.97		7.26	1.59E+01		6.07E+00	7.44E+00
		722.89		1.80	7.15E+01		-1.59E+02	3.35E+01
	TE-132	49.72		13.10	3.57E+02	4.99E+01	-5.09E+02	1.73E+02
		228.16		88.00	4.99E+01		1.42E+01	2.42E+01
	BA-133	81.00		33.00	1.83E-01	1.63E-01	-7.85E-01	8.94E-02
		302.84		17.80	4.22E-01		9.33E-03	2.03E-01
		356.01		60.00	1.63E-01		-9.79E-03	7.88E-02
	I-133	529.87		86.30	2.78E+09	2.78E+09	4.87E+08	1.31E+09
	CS-134	563.23		8.38	1.01E+00	9.84E-02	-1.05E-01	4.74E-01
		569.32		15.43	4.98E-01		-2.28E-01	2.33E-01
		604.70		97.60	9.84E-02		6.37E-03	4.65E-02
		795.84		85.40	1.26E-01		5.28E-02	5.91E-02
		801.93		8.73	1.10E+00		-8.56E-02	5.13E-01
	CS-135	268.24		16.00	5.06E-01	5.06E-01	7.29E-02	2.45E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.64E+00	3.86E-01	-4.16E-01	1.77E+00

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	163.89	4.61	5.86E+00	3.86E-01	1.16E+00	2.83E+00
	176.55	13.56	1.89E+00		-9.86E-01	9.11E-01
	273.65	12.66	3.01E+00		-2.37E+00	1.46E+00
	340.57	48.50	9.65E-01		1.84E+00	4.66E-01
	818.50	99.70	3.86E-01		-1.02E-01	1.77E-01
	1048.07	79.60	6.04E-01		2.26E-01	2.77E-01
	1235.34	19.70	3.60E+00		8.12E-02	1.68E+00
CS-137	661.65	85.12	1.13E-01	1.13E-01	4.48E-02	5.30E-02
LA-138	788.74	34.00	2.92E-01	1.41E-01	7.71E-02	1.36E-01
	1435.80	66.00	1.41E-01		-1.17E-02	6.23E-02
CE-139	165.85	80.35	7.98E-02	7.98E-02	3.46E-02	3.86E-02
BA-140	162.64	6.70	4.20E+00	1.72E+00	1.07E+00	2.03E+00
	304.84	4.50	7.70E+00		-1.98E+00	3.69E+00
	423.70	3.20	1.35E+01		4.71E+00	6.46E+00
	437.55	2.00	1.93E+01		7.57E+00	9.15E+00
	537.32	25.00	1.72E+00		-3.70E-02	8.11E-01
LA-140	328.77	20.50	1.92E+00	5.52E-01	8.60E-01	9.20E-01
	487.03	45.50	8.75E-01		3.65E-01	4.13E-01
	815.85	23.50	1.81E+00		1.08E-01	8.31E-01
	1596.49	95.49	5.52E-01		2.94E-01	2.45E-01
CE-141	145.44	48.40	2.20E-01	2.20E-01	6.31E-02	1.07E-01
CE-143	57.36	11.80	2.50E+06	9.93E+05	-7.91E+05	1.22E+06
	293.26	42.00	9.93E+05		5.22E+04	4.83E+05
	664.55	5.20	7.08E+06		1.39E+05	3.32E+06
CE-144	133.54	10.80	5.31E-01	5.31E-01	2.86E-02	2.57E-01
PM-144	476.78	42.00	2.04E-01	8.92E-02	1.30E-01	9.67E-02
	618.01	98.60	8.92E-02		9.97E-03	4.18E-02
	696.49	99.49	9.03E-02		-1.63E-02	4.21E-02
PM-145	36.85	21.70	6.40E-01	3.46E-01	-5.05E-01	3.11E-01
	37.36	39.70	3.46E-01		1.29E-01	1.68E-01
	42.30	15.10	7.15E-01		-6.56E-01	3.48E-01
	72.40	2.31	3.56E+00		-7.01E+00	1.75E+00
PM-146	453.90	39.94	2.02E-01	2.02E-01	1.10E-01	9.61E-02
	735.90	14.01	5.81E-01		3.47E-02	2.68E-01
	747.13	13.10	6.47E-01		-2.63E-01	2.99E-01
ND-147	91.11	28.90	1.65E+00	1.65E+00	-8.75E-01	8.09E-01
	531.02	13.10	4.31E+00		2.50E+00	2.04E+00
PM-149	285.90	3.10	2.83E+04	2.83E+04	-3.09E+03	1.36E+04
EU-152	121.78	20.50	2.53E-01	2.53E-01	3.30E-02	1.23E-01
	244.69	5.40	1.51E+00		-5.90E-01	7.31E-01
	344.27	19.13	3.78E-01		3.52E-03	1.81E-01
	778.89	9.20	9.97E-01		-1.46E-01	4.63E-01
	964.01	10.40	1.04E+00		6.35E-03	4.84E-01
	1085.78	7.22	1.42E+00		1.30E-01	6.53E-01
	1112.02	9.60	1.04E+00		2.62E-01	4.76E-01
	1407.95	14.94	6.15E-01		-1.83E-01	2.72E-01
GD-153	97.43	31.30	1.81E-01	1.81E-01	5.03E-02	8.79E-02
	103.18	22.20	2.49E-01		-4.67E-02	1.21E-01
EU-154	123.07	40.50	1.31E-01	1.31E-01	2.66E-02	6.35E-02
	723.30	19.70	4.90E-01		-1.09E+00	2.29E-01
	873.19	11.50	7.94E-01		2.05E-01	3.66E-01
	996.32	10.30	9.31E-01		-3.30E-01	4.27E-01
	1004.76	17.90	6.28E-01		-3.19E-02	2.92E-01

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	3.53E-01	1.31E-01	5.42E-04	1.63E-01
	EU-155	86.50		30.90	2.36E-01	2.36E-01	1.67E-01	1.15E-01
		105.30		20.70	2.48E-01		2.41E-03	1.20E-01
	EU-156	811.77		10.40	3.30E+00	3.30E+00	-9.08E-02	1.53E+00
		1153.47		7.20	6.54E+00		2.98E-01	3.02E+00
		1230.71		8.90	5.58E+00		-3.49E-01	2.58E+00
	HO-166M	184.41		72.60	9.77E-02	9.77E-02	1.34E-01	4.75E-02
		280.45		29.60	2.56E-01		6.15E-02	1.24E-01
		410.94		11.10	7.26E-01		2.65E-01	3.46E-01
		711.69		54.10	1.87E-01		1.79E-01	8.81E-02
	TM-171	66.72		0.14	5.03E+01	5.03E+01	2.02E+01	2.46E+01
	HF-172	81.75		4.52	1.39E+00	4.91E-01	-3.93E+00	6.79E-01
		125.81		11.30	4.91E-01		7.89E-02	2.38E-01
	LU-172	181.53		20.60	6.12E+00	3.93E+00	8.15E-01	2.95E+00
		810.06		16.63	1.22E+01		-2.84E-01	5.66E+00
		912.12		15.25	2.50E+01		4.58E+01	1.19E+01
		1093.66		62.50	3.93E+00		2.00E+00	1.81E+00
	LU-173	100.72		5.24	1.03E+00	4.03E-01	1.80E-01	5.02E-01
		272.11		21.20	4.03E-01		2.99E-01	1.95E-01
	HF-175	343.40		84.00	1.15E-01	1.15E-01	-3.48E-02	5.50E-02
	LU-176	88.34		13.30	5.63E-01	7.22E-02	3.89E-01	2.76E-01
		201.83		86.00	8.21E-02		1.49E-02	3.99E-02
		306.78		94.00	7.22E-02		-2.18E-02	3.46E-02
	TA-182	67.75		41.20	1.97E-01	1.97E-01	-4.99E-03	9.64E-02
		1121.30		34.90	6.05E-01		9.55E-01	2.87E-01
		1189.05		16.23	8.26E-01		-1.37E-01	3.79E-01
		1221.41		26.98	5.70E-01		-3.46E-02	2.64E-01
		1231.02		11.44	1.31E+00		4.86E-02	6.03E-01
	IR-192	308.46		29.68	3.11E-01	1.96E-01	2.28E-01	1.49E-01
		468.07		48.10	1.96E-01		9.99E-03	9.23E-02
	HG-203	279.19		77.30	1.54E-01	1.54E-01	2.16E-02	7.41E-02
	BI-207	569.67		97.72	7.93E-02	7.93E-02	-1.96E-02	3.71E-02
		1063.62		74.90	1.45E-01		1.00E-01	6.68E-02
+	TL-208	583.14	*	30.22	3.62E-01	2.51E-01	1.10E+00	1.73E-01
		860.37		4.48	2.06E+00		5.84E-01	9.50E-01
		2614.66	*	35.85	2.51E-01		8.79E-01	1.03E-01
	BI-210M	262.00		45.00	1.50E-01	1.50E-01	-2.52E-02	7.20E-02
		300.00		23.00	3.34E-01		-1.38E+00	1.61E-01
	PB-210	46.50		4.25	2.28E+00	2.28E+00	2.50E+00	1.11E+00
	PB-211	404.84		2.90	2.72E+00	2.72E+00	-1.07E+00	1.30E+00
		831.96		2.90	3.25E+00		-5.67E-01	1.51E+00
+	BI-212	727.17	*	11.80	1.28E+00	1.28E+00	6.93E-01	6.13E-01
		1620.62	*	2.75	1.62E+00		7.66E-01	5.95E-01
+	PB-212	238.63	*	44.60	3.30E-01	3.30E-01	1.37E+00	1.62E-01
		300.09	*	3.41	1.95E+00		1.64E+00	9.32E-01
+	BI-214	609.31	*	46.30	2.24E-01	2.24E-01	1.27E+00	1.06E-01
		1120.29	*	15.10	1.25E+00		2.07E+00	5.96E-01
		1764.49	*	15.80	4.07E-01		1.44E+00	1.64E-01
		2204.22		4.98	2.02E+00		4.54E-01	8.67E-01
+	PB-214	295.21	*	19.19	4.06E-01	2.91E-01	1.56E+00	1.96E-01
		351.92	*	37.19	2.91E-01		1.25E+00	1.41E-01
	RN-219	401.80		6.50	1.25E+00	1.25E+00	8.83E-01	5.97E-01
	RA-223	323.87		3.88	1.75E+00	1.75E+00	-2.14E+00	8.38E-01

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RA-224	240.98		3.95	3.53E+00	3.53E+00	1.99E+01	1.73E+00
	RA-225	40.00		31.00	1.58E+00	1.58E+00	3.53E-01	7.70E-01
+	RA-226	186.21	*	3.28	2.72E+00	2.72E+00	2.90E+00	1.33E+00
	TH-227	50.10		8.40	9.05E-01	9.05E-01	-1.29E+00	4.40E-01
		236.00		11.50	1.06E+00		-2.38E-02	5.18E-01
		256.20		6.30	1.02E+00		-2.25E-01	4.89E-01
+	AC-228	338.32	*	11.40	8.87E-01	5.17E-01	1.35E+00	4.30E-01
		911.07	*	27.70	5.17E-01		1.31E+00	2.45E-01
		969.11	*	16.60	9.65E-01		1.58E+00	4.59E-01
	TH-230	48.44		16.90	5.07E-01	5.07E-01	-1.20E-01	2.47E-01
		62.85		4.60	1.72E+00		2.39E+00	8.41E-01
		67.67		0.37	1.83E+01		-4.63E-01	8.95E+00
	PA-231	283.67		1.60	4.30E+00	3.25E+00	1.22E+00	2.07E+00
		302.67		2.30	3.25E+00		7.17E-02	1.56E+00
	TH-231	25.64		14.70	3.44E+00	9.64E-01	-9.80E-01	1.67E+00
		84.21		6.40	9.64E-01		-2.32E+00	4.70E-01
	PA-233	311.98		38.60	3.77E-01	3.77E-01	6.05E-02	1.80E-01
	PA-234	131.20		20.40	2.80E-01	2.80E-01	1.53E-01	1.36E-01
		733.99		8.80	9.46E-01		3.85E-02	4.38E-01
		946.00		12.00	7.68E-01		2.78E-01	3.53E-01
	PA-234M	1001.03		0.92	1.26E+01	1.26E+01	-5.03E-01	5.86E+00
+	TH-234	63.29	*	3.80	2.57E+00	2.57E+00	1.64E+00	1.26E+00
	U-235	143.76		10.50	5.31E-01	5.31E-01	1.38E-01	2.58E-01
		163.35		4.70	1.17E+00		2.32E-01	5.67E-01
		205.31		4.70	1.46E+00		3.06E-01	7.07E-01
	NP-237	86.50		12.60	5.71E-01	5.71E-01	4.06E-01	2.80E-01
	NP-239	106.10		22.70	1.58E+03	1.58E+03	-3.49E+02	7.67E+02
		228.18		10.70	4.80E+03		1.36E+03	2.32E+03
		277.60		14.10	3.85E+03		1.89E+03	1.86E+03
	AM-241	59.54		35.90	2.08E-01	2.08E-01	-5.02E-03	1.01E-01
	AM-243	74.67		66.00	1.51E-01	1.51E-01	4.14E-01	7.44E-02
+	CM-243	209.75	*	3.29	2.37E+00	5.90E-01	1.52E+00	1.15E+00
		228.14		10.60	6.82E-01		1.94E-01	3.30E-01
		277.60	*	14.00	5.90E-01		2.99E-01	2.85E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1506114-13

FEEBRIS1D-18.044-046

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-18.044-046

Elapsed Live time: 3600
Elapsed Real Time: 3615

Channel								
1:	0	0	0	0	0	0	0	0
9:	8	203	189	179	137	118	114	110
17:	114	81	93	94	92	84	97	85
25:	78	89	81	79	82	77	82	104
33:	90	101	71	86	72	80	94	92
41:	82	102	95	95	90	125	151	87
49:	77	74	86	87	82	98	105	102
57:	97	104	125	123	116	126	173	204
65:	114	102	112	134	130	114	136	118
73:	148	159	375	274	470	385	114	112
81:	112	100	95	132	121	121	199	221
89:	122	170	142	117	221	157	115	71
97:	81	74	84	91	76	70	77	70
105:	81	83	61	72	78	82	73	78
113:	64	72	78	62	80	44	67	79
121:	74	70	71	62	89	65	69	90
129:	114	91	66	78	62	62	73	74
137:	71	63	60	55	81	72	62	87
145:	71	64	70	61	58	71	60	74
153:	58	77	60	60	80	54	49	61
161:	59	43	71	60	66	59	53	55
169:	47	49	58	56	68	52	47	45
177:	48	56	47	47	61	56	53	49
185:	65	150	111	55	62	57	52	62
193:	49	45	39	45	63	73	60	53
201:	52	51	49	53	54	47	42	45
209:	69	76	46	56	41	48	54	56
217:	53	44	38	33	44	39	41	37
225:	52	49	45	43	42	43	48	47
233:	43	51	49	49	33	195	469	157
241:	79	113	90	35	35	28	31	34
249:	32	34	36	27	33	28	31	24
257:	26	29	38	35	30	24	30	28
265:	38	34	42	33	40	64	63	48
273:	27	29	44	29	41	54	41	35
281:	18	38	31	37	21	40	19	31
289:	26	38	26	30	29	33	149	158
297:	48	20	24	50	36	25	30	26
305:	21	28	22	22	31	23	24	31
313:	15	16	24	25	19	25	30	17
321:	26	18	16	28	21	21	28	37
329:	45	19	22	26	26	21	24	19
337:	25	69	103	27	22	27	22	24
345:	15	22	28	27	14	18	80	252
353:	143	32	22	25	16	21	23	20
361:	21	16	21	16	23	25	16	20

369:	23	18	18	23	25	16	15	22

Sample Title: FEEBRIS1D-18.044-046

Channel								
377:	13	22	14	20	27	20	13	14
385:	24	24	21	19	16	19	18	22
393:	16	17	16	21	18	16	20	21
401:	24	25	20	26	20	19	12	23
409:	25	25	17	20	21	16	18	21
417:	22	18	24	17	21	37	20	16
425:	16	24	20	19	17	18	17	19
433:	15	10	20	13	15	11	19	22
441:	14	12	16	13	8	15	16	11
449:	13	24	18	24	18	14	13	18
457:	16	10	9	12	15	12	33	27
465:	14	17	10	18	11	10	9	6
473:	15	16	19	16	16	21	12	13
481:	14	10	11	11	14	16	19	15
489:	10	15	14	10	14	12	10	12
497:	11	13	10	15	8	19	5	17
505:	12	16	11	12	11	34	72	44
513:	14	18	14	17	17	11	6	10
521:	15	8	13	16	13	6	8	14
529:	15	14	9	14	21	14	16	10
537:	12	12	21	13	14	9	15	14
545:	14	15	8	19	9	12	4	10
553:	10	9	13	6	11	20	17	15
561:	13	8	20	14	9	7	14	5
569:	10	8	10	15	12	15	16	12
577:	8	13	17	11	10	21	75	98
585:	20	14	14	5	7	8	6	8
593:	9	8	12	10	9	7	15	15
601:	11	11	15	9	14	7	14	29
609:	155	138	27	13	9	9	10	13
617:	11	8	15	10	7	7	14	13
625:	9	10	8	10	11	10	7	8
633:	10	11	18	11	9	12	6	8
641:	7	9	15	9	6	8	12	7
649:	14	4	7	10	13	12	8	10
657:	7	7	13	16	13	15	9	8
665:	14	13	10	18	14	14	9	8
673:	5	11	10	10	10	11	10	11
681:	11	4	8	11	14	6	10	10
689:	12	13	5	13	12	9	5	11
697:	8	5	12	10	11	13	8	8
705:	10	11	4	6	12	10	15	15
713:	12	9	14	9	5	9	13	14
721:	18	9	10	10	7	7	38	25
729:	8	7	7	12	10	8	7	3
737:	7	6	9	5	5	7	13	14
745:	4	6	9	3	11	6	7	12
753:	7	16	10	9	11	8	7	11
761:	13	10	11	9	9	9	11	16
769:	15	6	10	11	13	10	9	11
777:	5	8	3	11	8	13	12	6
785:	15	9	9	8	11	11	11	10
793:	5	8	24	10	8	9	12	10

801:	3	9	8	6	11	9	13	3

Sample Title: FEEBRIS1D-18.044-046

Channel								
809:	8	6	6	6	11	6	6	5
817:	8	2	6	7	5	7	4	13
825:	8	4	7	8	6	9	9	10
833:	7	8	7	15	5	6	9	19
841:	11	5	7	4	9	10	4	6
849:	9	9	7	6	7	8	4	9
857:	7	1	7	9	14	7	5	6
865:	4	3	2	7	5	7	6	8
873:	3	8	8	7	7	3	11	10
881:	6	7	5	7	9	7	2	5
889:	8	6	11	6	6	5	5	7
897:	7	6	1	4	6	1	9	13
905:	4	8	10	11	4	24	69	45
913:	9	5	6	5	5	3	4	9
921:	3	5	5	8	6	4	6	7
929:	2	7	7	7	6	15	11	8
937:	5	6	9	7	1	3	12	2
945:	3	6	6	3	10	8	4	2
953:	5	11	7	8	6	2	6	4
961:	5	8	3	11	14	7	9	31
969:	45	14	9	11	7	8	3	7
977:	10	9	5	10	7	11	9	6
985:	6	3	7	5	4	4	8	7
993:	7	8	7	4	3	6	6	9
1001:	6	14	8	13	3	5	10	4
1009:	7	6	7	5	6	2	5	5
1017:	2	7	2	7	3	3	5	9
1025:	2	9	4	4	6	8	7	6
1033:	4	6	6	6	7	12	6	5
1041:	5	6	4	4	5	6	9	5
1049:	5	5	5	3	5	2	5	6
1057:	3	2	6	9	9	8	4	1
1065:	8	9	3	3	4	7	7	5
1073:	3	4	8	4	5	6	9	6
1081:	4	10	4	11	6	5	9	3
1089:	3	8	1	9	6	6	9	7
1097:	6	4	5	5	3	7	9	9
1105:	6	9	5	6	5	8	9	5
1113:	5	4	1	6	1	4	19	43
1121:	23	17	6	11	7	6	9	4
1129:	6	5	11	4	9	4	8	3
1137:	10	10	5	6	6	7	3	9
1145:	5	8	7	2	9	7	4	5
1153:	4	13	8	10	8	9	7	4
1161:	5	6	10	10	7	6	12	5
1169:	8	9	7	9	5	6	7	5
1177:	2	7	9	0	7	14	6	8
1185:	5	2	10	7	5	2	12	4
1193:	7	7	5	7	9	5	15	7
1201:	5	7	6	5	13	6	7	4
1209:	7	2	4	6	5	11	4	7
1217:	6	10	6	11	7	7	9	4
1225:	11	7	8	6	5	9	8	7

1233:	8	7	6	8	13	20	9	13

Sample Title: FEEBRIS1D-18.044-046

Channel								
1241:	3	4	3	6	9	9	7	4
1249:	5	3	3	6	3	5	10	5
1257:	5	6	5	4	6	4	7	3
1265:	7	1	2	7	4	5	5	7
1273:	4	7	6	2	6	5	2	8
1281:	3	3	2	7	3	4	2	1
1289:	2	1	5	4	5	8	11	3
1297:	4	3	3	3	2	5	2	6
1305:	6	3	5	8	2	6	4	5
1313:	7	2	7	9	4	5	2	4
1321:	5	4	5	5	6	1	5	3
1329:	3	2	9	8	3	5	1	2
1337:	3	1	5	1	2	4	4	2
1345:	4	5	4	3	6	2	1	5
1353:	5	3	2	1	6	2	2	3
1361:	0	4	2	5	5	1	4	1
1369:	5	5	7	0	4	5	3	3
1377:	9	9	1	1	3	2	3	4
1385:	1	4	2	4	4	2	1	2
1393:	1	1	2	3	1	3	4	2
1401:	3	4	2	2	0	4	3	6
1409:	4	1	0	0	5	1	3	1
1417:	4	1	1	3	1	5	5	1
1425:	2	1	3	1	2	2	1	0
1433:	2	3	2	2	4	2	4	3
1441:	3	1	1	2	1	3	2	3
1449:	0	3	2	2	2	3	3	3
1457:	0	9	51	201	225	86	16	4
1465:	2	3	1	1	1	1	1	3
1473:	5	0	1	1	2	3	2	0
1481:	2	3	0	1	2	2	0	4
1489:	1	2	0	1	1	2	2	0
1497:	1	1	5	3	3	0	1	1
1505:	1	3	0	5	6	3	2	8
1513:	3	2	3	2	3	0	5	1
1521:	0	1	2	1	1	0	3	0
1529:	1	1	4	3	3	2	2	1
1537:	2	3	3	1	1	2	1	2
1545:	2	2	1	4	1	1	0	0
1553:	2	0	1	0	3	1	0	0
1561:	3	1	1	0	3	1	0	1
1569:	2	1	1	2	3	2	1	0
1577:	0	2	1	4	2	0	2	4
1585:	3	2	2	4	4	4	0	8
1593:	2	3	2	1	1	1	1	2
1601:	1	0	2	1	1	2	1	3
1609:	0	2	2	0	1	4	1	0
1617:	2	0	1	4	2	0	0	2
1625:	3	2	2	0	3	4	3	0
1633:	0	1	3	0	0	1	0	1
1641:	1	2	1	2	2	1	0	0
1649:	2	1	0	1	0	0	1	0
1657:	2	1	0	0	2	1	3	2

1665:	0	2	0	2	0	0	1	0

Sample Title: FEEBRIS1D-18.044-046

Channel								
1673:	2	0	1	0	2	1	0	3
1681:	0	1	0	1	1	1	0	0
1689:	0	1	1	3	0	1	1	3
1697:	2	1	1	1	0	1	1	0
1705:	2	1	1	1	0	0	0	1
1713:	0	1	2	0	0	0	2	0
1721:	1	0	0	1	0	0	2	3
1729:	4	3	0	0	0	0	0	1
1737:	1	1	0	0	2	0	0	0
1745:	0	2	0	0	1	4	0	1
1753:	0	2	2	0	2	1	0	1
1761:	3	1	11	12	17	2	1	2
1769:	2	0	0	2	0	2	0	0
1777:	0	0	0	3	0	0	0	1
1785:	0	1	0	0	0	2	1	0
1793:	1	1	1	0	2	0	5	1
1801:	0	1	0	0	0	1	2	1
1809:	1	1	1	0	1	3	0	1
1817:	0	0	0	1	1	1	1	1
1825:	1	0	1	1	1	0	1	0
1833:	1	0	2	2	0	0	0	2
1841:	1	2	0	1	1	2	2	4
1849:	0	1	1	3	1	1	1	1
1857:	0	1	0	0	0	1	1	1
1865:	2	1	0	0	0	2	0	3
1873:	3	0	0	1	1	0	0	1
1881:	0	0	0	0	0	0	1	0
1889:	0	1	0	0	1	3	0	1
1897:	1	0	0	0	2	0	1	1
1905:	1	3	1	0	0	3	1	2
1913:	0	1	0	1	0	0	1	0
1921:	0	0	1	1	2	2	1	0
1929:	0	0	2	2	1	3	0	1
1937:	3	1	0	1	0	1	2	1
1945:	0	0	0	2	0	0	1	1
1953:	0	0	1	0	2	0	0	0
1961:	0	1	1	0	0	0	2	1
1969:	1	2	0	0	0	1	0	2
1977:	1	1	1	2	0	0	0	2
1985:	0	1	2	2	0	0	2	0
1993:	2	2	2	1	1	1	1	0
2001:	0	1	0	0	0	0	2	0
2009:	1	0	0	0	1	3	0	1
2017:	1	1	0	1	1	1	3	1
2025:	0	2	0	0	1	3	2	1
2033:	1	1	0	1	2	0	3	0
2041:	1	2	0	3	0	0	1	2
2049:	1	0	0	0	0	0	1	2
2057:	0	1	0	3	0	1	0	1
2065:	0	0	2	0	1	0	0	1
2073:	0	0	0	0	0	2	1	1
2081:	2	1	1	0	0	1	1	1
2089:	0	0	1	1	2	1	1	1

2097:	0	3	0	2	0	1	5	1

Sample Title: FEEBRIS1D-18.044-046

Channel								
2105:	0	0	1	1	0	1	2	0
2113:	1	0	0	0	1	3	1	1
2121:	0	2	1	0	2	0	1	0
2129:	0	0	0	0	2	2	2	0
2137:	2	0	0	2	0	1	0	0
2145:	0	0	2	0	0	1	0	1
2153:	1	2	0	1	3	1	0	1
2161:	0	1	0	0	1	3	1	0
2169:	0	0	0	3	0	1	0	2
2177:	1	0	0	0	0	2	0	3
2185:	2	3	0	1	1	0	0	1
2193:	1	1	1	0	1	0	1	2
2201:	1	0	1	4	2	1	0	1
2209:	2	0	1	0	1	0	1	1
2217:	0	1	0	1	2	2	1	0
2225:	1	0	0	2	1	0	0	1
2233:	2	0	1	4	1	0	1	0
2241:	1	2	0	0	0	0	0	0
2249:	0	0	0	0	1	1	0	0
2257:	0	1	0	1	0	0	2	2
2265:	2	0	1	1	1	1	1	0
2273:	1	1	1	1	3	1	0	0
2281:	1	1	1	2	1	0	2	1
2289:	2	0	0	0	3	3	2	0
2297:	2	0	2	0	0	0	0	1
2305:	0	0	1	1	1	0	1	0
2313:	0	0	1	2	1	1	0	0
2321:	2	0	1	0	1	1	4	0
2329:	2	0	0	1	1	1	0	0
2337:	0	0	1	2	1	1	2	2
2345:	3	1	2	0	0	0	1	1
2353:	0	1	1	0	2	0	0	0
2361:	1	1	1	3	1	2	2	2
2369:	2	0	0	0	1	1	1	1
2377:	1	0	0	0	4	1	0	0
2385:	0	1	2	1	2	1	0	0
2393:	0	0	0	1	0	1	1	2
2401:	0	0	1	2	1	1	0	1
2409:	1	0	0	0	0	0	1	1
2417:	2	5	1	0	2	0	2	0
2425:	0	1	1	0	0	3	0	0
2433:	0	0	0	0	1	0	0	1
2441:	0	0	0	1	0	3	2	1
2449:	0	0	0	0	1	1	0	1
2457:	3	1	0	0	0	1	1	0
2465:	0	0	2	0	0	2	0	1
2473:	0	2	0	1	0	2	0	0
2481:	1	0	0	1	0	1	1	0
2489:	1	0	0	2	0	0	1	0
2497:	0	0	1	3	0	0	1	1
2505:	0	0	1	0	1	0	0	0
2513:	0	0	1	0	0	0	0	0
2521:	0	0	1	2	1	0	0	0

2529:	0	1	0	0	0	1	1	0

Sample Title: FEEBRIS1D-18.044-046

Channel								
2537:	1	0	0	0	0	1	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	1	1	0	0	2	0	0
2561:	0	0	1	1	0	0	0	0
2569:	0	1	0	0	0	0	0	0
2577:	1	0	0	0	0	1	1	0
2585:	0	0	0	0	0	1	1	0
2593:	0	1	0	0	0	1	0	1
2601:	2	0	0	1	0	1	0	1
2609:	0	1	1	3	12	19	18	4
2617:	0	1	0	1	0	1	1	0
2625:	0	0	0	0	0	0	0	0
2633:	1	1	0	0	1	0	0	0
2641:	0	0	1	0	0	0	0	0
2649:	0	1	0	0	0	0	1	0
2657:	0	0	0	0	0	0	1	0
2665:	0	0	0	0	0	0	0	0
2673:	0	1	1	0	0	1	0	0
2681:	0	0	0	0	0	1	0	0
2689:	0	0	0	0	1	0	1	0
2697:	0	0	0	0	0	0	0	0
2705:	0	0	1	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	0	2	0	0	0	0	0	0
2729:	2	0	0	0	0	0	0	0
2737:	1	0	0	0	0	0	0	0
2745:	0	0	0	0	0	0	0	1
2753:	0	0	1	0	0	1	0	0
2761:	0	0	1	0	0	0	1	0
2769:	1	1	0	0	0	0	0	0
2777:	0	1	0	0	0	0	1	0
2785:	0	0	0	1	0	0	0	0
2793:	0	0	0	1	0	0	0	0
2801:	0	1	0	0	0	0	0	0
2809:	1	0	0	0	0	0	0	1
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	0	0	1	0
2833:	0	0	0	0	0	0	0	0
2841:	0	1	0	0	0	0	1	1
2849:	0	0	0	0	0	0	0	0
2857:	0	0	1	0	0	0	0	0
2865:	0	0	1	0	0	0	0	0
2873:	0	0	0	0	0	1	1	0
2881:	0	0	2	0	0	0	0	1
2889:	0	0	1	0	0	0	0	0
2897:	1	1	1	0	0	0	0	0
2905:	1	0	0	0	0	1	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	1	0	0	1	0
2929:	0	0	1	0	0	0	0	0
2937:	0	0	0	0	0	0	0	1
2945:	0	0	0	0	0	0	0	0
2953:	1	0	0	0	0	1	0	0

2961:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-18.044-046

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	2	0	0	1	0	1
2985:	1	0	1	0	1	0	0	0
2993:	1	0	0	0	1	0	0	2
3001:	0	1	0	0	0	0	0	0
3009:	1	0	1	0	0	0	0	1
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	1	0	0	0	0	0	0
3049:	0	0	1	0	0	0	1	0
3057:	0	0	1	0	0	0	0	1
3065:	1	0	1	0	0	0	0	0
3073:	0	0	0	0	1	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	1	1	1	0	0
3105:	0	1	0	0	0	0	0	0
3113:	1	1	0	0	0	0	0	0
3121:	0	0	1	0	0	0	1	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	1	0	0	1	0	0	0	0
3153:	0	1	1	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	1	0
3177:	0	0	1	0	1	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	1	0	0	1	1	1	0	0
3201:	0	0	0	0	0	1	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	1	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	1	0	0	0
3241:	0	0	1	0	0	0	0	0
3249:	0	1	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	1	0	0
3281:	1	0	0	0	0	1	0	0
3289:	0	0	0	1	0	0	0	0
3297:	0	0	0	0	0	0	1	0
3305:	0	0	1	0	0	0	1	0
3313:	0	0	1	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	1	0	0	0	0
3337:	0	0	0	0	0	0	1	0
3345:	0	0	0	0	0	1	0	0
3353:	1	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	1	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	1	0	0	0
3385:	1	0	0	0	1	0	0	0

3393:	1	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-18.044-046

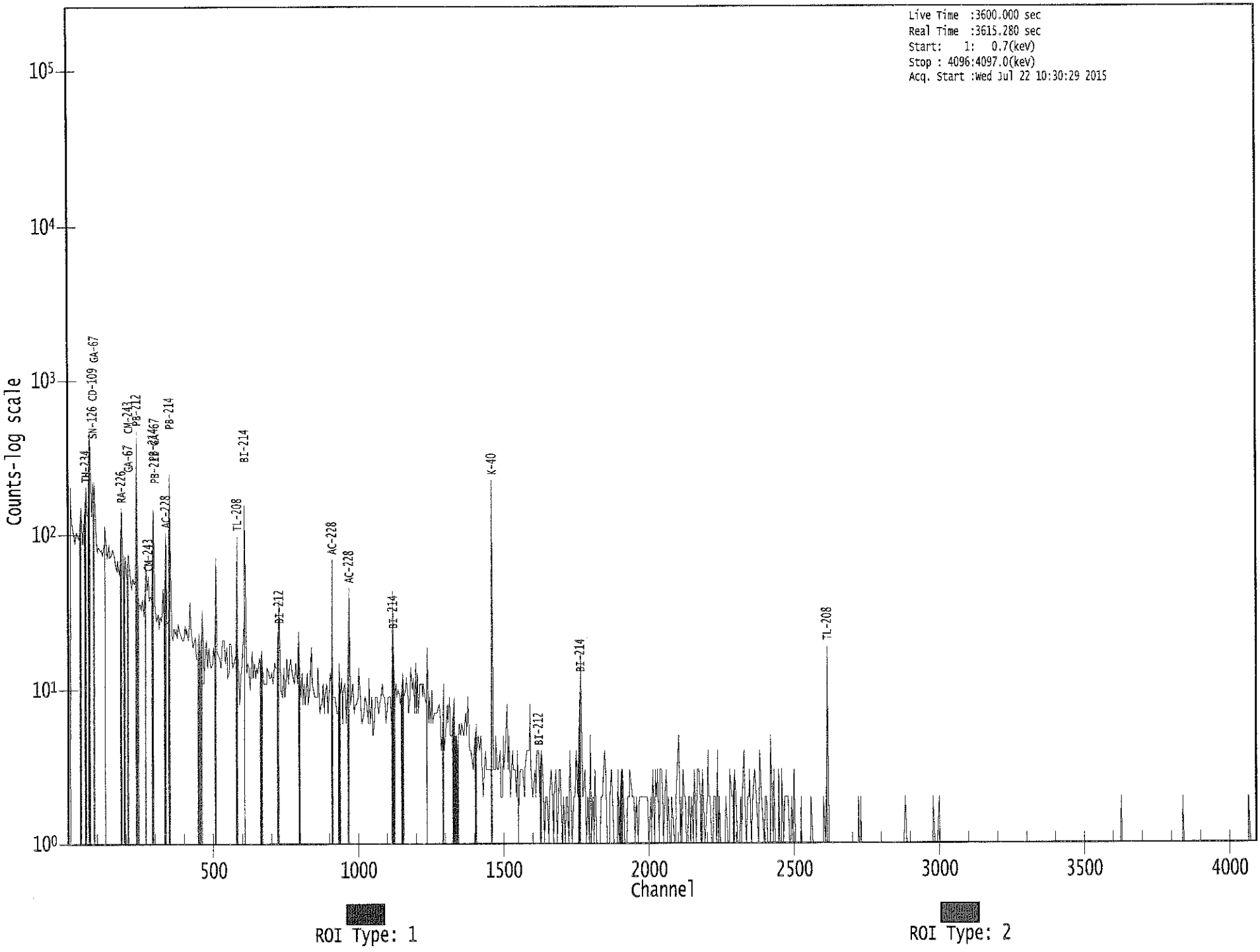
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	1	0	0	0	0	0
3425:	0	1	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	1	0	0	0
3449:	0	0	0	0	0	1	0	0
3457:	0	0	1	0	1	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	1	1	1	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	1	0	0	0	0	0
3497:	1	0	1	1	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	1	0	1	0	0	1	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	1	0	0	0	0
3537:	1	0	1	0	0	0	1	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	1	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	1	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	1	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	1	2	0	1	1	0	0
3633:	0	0	0	0	0	1	1	0
3641:	0	0	0	0	0	0	0	0
3649:	1	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	1	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	1	0	0	0	1
3681:	0	0	1	0	0	0	0	0
3689:	0	1	0	0	0	0	0	0
3697:	1	1	0	0	0	0	0	0
3705:	0	0	1	0	0	0	0	0
3713:	1	0	0	0	1	0	1	0
3721:	1	0	0	0	1	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	1	0	0	1	0	0
3745:	0	0	0	0	1	0	0	1
3753:	0	0	0	0	0	0	0	1
3761:	0	0	0	0	0	0	1	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	1	0
3817:	1	0	0	0	0	0	0	0

3825:	0	0	0	0	1	1	0	0

Sample Title: FEEBRIS1D-18.044-046

Channel								
3833:	0	0	0	0	1	2	0	0
3841:	1	0	1	0	0	0	0	1
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	1	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	1	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	1	0	1	0	0	0	1	0
3897:	0	0	0	0	0	0	0	0
3905:	0	1	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	1	0	1
3937:	0	0	0	0	1	0	0	0
3945:	0	0	0	0	0	0	0	1
3953:	0	0	0	0	0	0	0	1
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	1	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	1
4001:	0	0	0	1	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	2	0	0	0	0	0	0	1
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000024984.CNF



Apex-Gamma

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-14
Sample Description	: FEEBRIS1D-17.030-031
Sample Type	: SOIL
Sample Size	: 4.581E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:42:26AM
Acquisition Started	: 7/22/2015 10:30:37AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.7 seconds
Dead Time	: 0.05 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 24985

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/22/15

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 11:30:40AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	24.97	24.21	0.0000	0.00
2	32.36	31.61	0.0000	0.00
3	46.71	45.96	0.0000	0.00
4	62.51	61.77	0.0000	0.00
5	75.53	74.80	0.0000	0.00
6	238.61	237.95	0.0000	0.00
7	295.11	294.47	0.0000	0.00
8	352.04	351.43	0.0000	0.00
9	511.26	510.72	0.0000	0.00
10	583.29	582.78	0.0000	0.00
11	610.42	609.93	0.0000	0.00
12	622.85	622.36	0.0000	0.00
13	675.02	674.55	0.0000	0.00
14	768.02	767.61	0.0000	0.00
15	958.18	957.87	0.0000	0.00
16	1238.30	1238.14	0.0000	0.00
17	1300.35	1300.22	0.0000	0.00
18	1351.41	1351.31	0.0000	0.00
19	1356.96	1356.87	0.0000	0.00
20	1460.30	1460.27	0.0000	0.00
21	2613.93	2614.70	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:30:40AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
1	24.97	21 -	28	24.21	7.88E+01	52.31	3.86E+02	1.34
2	32.36	29 -	34	31.61	5.00E+01	37.07	2.36E+02	3.52
3	46.71	42 -	49	45.96	7.90E+01	51.77	3.90E+02	2.94
4	62.51	56 -	68	61.77	1.39E+02	82.83	7.43E+02	3.12
5	75.53	69 -	81	74.80	2.11E+02	91.51	8.92E+02	4.76
6	238.61	234 -	242	237.95	1.10E+02	50.54	3.28E+02	1.54
7	295.11	289 -	299	294.47	3.27E+01	40.21	1.99E+02	3.20
8	352.04	346 -	356	351.43	7.92E+01	34.28	1.12E+02	2.11
9	511.26	503 -	521	510.72	9.35E+01	38.40	9.90E+01	4.56
10	583.29	579 -	587	582.78	2.69E+01	24.50	7.43E+01	2.23
11	610.42	604 -	617	609.93	5.70E+01	30.12	7.00E+01	3.29
12	622.85	618 -	625	622.36	1.63E+01	11.66	1.13E+01	2.80
13	675.02	668 -	684	674.55	2.85E+01	30.37	7.90E+01	14.76
14	768.02	764 -	771	767.61	1.30E+01	14.00	2.40E+01	3.53
15	958.18	941 -	972	957.87	7.05E+01	33.82	4.70E+01	24.07
16	1238.30	1234 -	1242	1238.14	1.59E+01	15.41	2.61E+01	2.50
17	1300.35	1297 -	1303	1300.22	1.19E+01	10.04	8.25E+00	4.50
18	1351.41	1347 -	1354	1351.31	8.17E+00	8.94	7.67E+00	1.97
19	1356.96	1354 -	1359	1356.87	6.00E+00	7.35	6.00E+00	2.11
20	1460.30	1453 -	1465	1460.27	1.47E+02	26.39	1.30E+01	3.15
21	2613.93	2610 -	2618	2614.70	1.00E+01	6.32	0.00E+00	2.75

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 11:30:40AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	24.97	21 -	28	7.88E+01	52.31	3.86E+02	4.04E+01
2	32.36	29 -	34	5.00E+01	37.07	2.36E+02	2.82E+01
3	46.71	42 -	49	7.90E+01	51.77	3.90E+02	4.00E+01
4	62.51	56 -	68	1.39E+02	82.83	7.43E+02	6.53E+01
5	75.53	69 -	81	2.11E+02	91.51	8.92E+02	7.13E+01
6	238.61	234 -	242	1.10E+02	50.54	3.28E+02	3.78E+01
7	295.11	289 -	299	3.27E+01	40.21	1.99E+02	3.17E+01
8	352.04	346 -	356	7.92E+01	34.28	1.12E+02	2.41E+01
9	511.26	503 -	521	9.35E+01	38.40	9.90E+01	2.73E+01
10	583.29	579 -	587	2.69E+01	24.50	7.43E+01	1.82E+01
11	610.42	604 -	617	5.70E+01	30.12	7.00E+01	2.14E+01
12	622.85	618 -	625	1.63E+01	11.66	1.13E+01	6.91E+00
13	675.02	668 -	684	2.85E+01	30.37	7.90E+01	2.34E+01
14	768.02	764 -	771	1.30E+01	14.00	2.40E+01	9.86E+00
15	958.18	941 -	972	7.05E+01	33.82	4.70E+01	2.41E+01
16	1238.30	1234 -	1242	1.59E+01	15.41	2.61E+01	1.08E+01
17	1300.35	1297 -	1303	1.19E+01	10.04	8.25E+00	6.00E+00
18	1351.41	1347 -	1354	8.17E+00	8.94	7.67E+00	5.66E+00
19	1356.96	1354 -	1359	6.00E+00	7.35	6.00E+00	4.50E+00
20	1460.30	1453 -	1465	1.47E+02	26.39	1.30E+01	8.64E+00
21	2613.93	2610 -	2618	1.00E+01	6.32	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 11:30:40AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	24.97	21 -	28	24.21	7.88E+01	52.31	3.86E+02	TH-231

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
2	32.36	29 -	34	31.61	5.00E+01	37.07	2.36E+02	.....
3	46.71	42 -	49	45.96	7.90E+01	51.77	3.90E+02	PB-210
4	62.51	56 -	68	61.77	1.39E+02	82.83	7.43E+02	TH-230
								TH-234
5	75.53	69 -	81	74.80	2.11E+02	91.51	8.92E+02	AM-243
6	238.61	234 -	242	237.95	1.10E+02	50.54	3.28E+02	PB-212
7	295.11	289 -	299	294.47	3.27E+01	40.21	1.99E+02	PB-214
8	352.04	346 -	356	351.43	7.92E+01	34.28	1.12E+02	PB-214
9	511.26	503 -	521	510.72	9.35E+01	38.40	9.90E+01	.....
10	583.29	579 -	587	582.78	2.69E+01	24.50	7.43E+01	TL-208
11	610.42	604 -	617	609.93	5.70E+01	30.12	7.00E+01	.....
12	622.85	618 -	625	622.36	1.63E+01	11.66	1.13E+01	.....
13	675.02	668 -	684	674.55	2.85E+01	30.37	7.90E+01	.....
14	768.02	764 -	771	767.61	1.30E+01	14.00	2.40E+01	.....
15	958.18	941 -	972	957.87	7.05E+01	33.82	4.70E+01	.....
16	1238.30	1234 -	1242	1238.14	1.59E+01	15.41	2.61E+01	CO-56
17	1300.35	1297 -	1303	1300.22	1.19E+01	10.04	8.25E+00	.....
18	1351.41	1347 -	1354	1351.31	8.17E+00	8.94	7.67E+00	.....
19	1356.96	1354 -	1359	1356.87	6.00E+00	7.35	6.00E+00	.....
20	1460.30	1453 -	1465	1460.27	1.47E+02	26.39	1.30E+01	K-40
21	2613.93	2610 -	2618	2614.70	1.00E+01	6.32	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 11:30:40AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	24.97	7.88E+01	52.31	3.01E-02	1.78E-03
2	32.36	5.00E+01	37.07	2.90E-02	1.78E-03
3	46.71	7.90E+01	51.77	2.63E-02	1.78E-03
4	62.51	1.39E+02	82.83	2.34E-02	1.76E-03
5	75.53	2.11E+02	91.51	2.13E-02	1.70E-03
6	238.61	1.10E+02	50.54	9.42E-03	9.87E-04
7	295.11	3.27E+01	40.21	7.79E-03	8.43E-04
8	352.04	7.92E+01	34.28	6.61E-03	7.80E-04
9	511.26	9.35E+01	38.40	4.61E-03	5.61E-04

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
10	583.29	2.69E+01	24.50	4.05E-03	4.55E-04
11	610.42	5.70E+01	30.12	3.87E-03	4.15E-04
12	622.85	1.63E+01	11.66	3.79E-03	3.97E-04
13	675.02	2.85E+01	30.37	3.50E-03	3.33E-04
14	768.02	1.30E+01	14.00	3.08E-03	2.81E-04
15	958.18	7.05E+01	33.82	2.49E-03	2.00E-04
16	1238.30	1.59E+01	15.41	1.95E-03	1.90E-04
17	1300.35	1.19E+01	10.04	1.87E-03	2.07E-04
18	1351.41	8.17E+00	8.94	1.80E-03	2.12E-04
19	1356.96	6.00E+00	7.35	1.80E-03	2.11E-04
20	1460.30	1.47E+02	26.39	1.68E-03	1.89E-04
21	2613.93	1.00E+01	6.32	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 11:30:40AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	24.97	7.88E+01	52.31			7.88E+01	5.23E+01
2	32.36	5.00E+01	37.07			5.00E+01	3.71E+01
3	46.71	7.90E+01	51.77	2.93E+01	8.52E+00	4.97E+01	5.25E+01
4	62.51	1.39E+02	82.83	3.87E+01	8.57E+00	1.01E+02	8.33E+01
5	75.53	2.11E+02	91.51			2.11E+02	9.15E+01
6	238.61	1.10E+02	50.54	4.80E+00	4.74E+00	1.05E+02	5.08E+01
7	295.11	3.27E+01	40.21			3.27E+01	4.02E+01
8	352.04	7.92E+01	34.28			7.92E+01	3.43E+01
9	511.26	9.35E+01	38.40	4.72E+01	4.90E+00	4.62E+01	3.87E+01
10	583.29	2.69E+01	24.50			2.69E+01	2.45E+01
11	610.42	5.70E+01	30.12			5.70E+01	3.01E+01
12	622.85	1.63E+01	11.66			1.63E+01	1.17E+01
13	675.02	2.85E+01	30.37			2.85E+01	3.04E+01
14	768.02	1.30E+01	14.00			1.30E+01	1.40E+01
15	958.18	7.05E+01	33.82			7.05E+01	3.38E+01
16	1238.30	1.59E+01	15.41			1.59E+01	1.54E+01
17	1300.35	1.19E+01	10.04			1.19E+01	1.00E+01
18	1351.41	8.17E+00	8.94			8.17E+00	8.94E+00

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
19	1356.96	6.00E+00	7.35			6.00E+00	7.35E+00
20	1460.30	1.47E+02	26.39			1.47E+02	2.64E+01
21	2613.93	1.00E+01	6.32	5.52E-01	9.86E-01	9.45E+00	6.40E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 11:30:40AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	24.97	7.88E+01	52.31			7.88E+01	5.23E+01
2	32.36	5.00E+01	37.07			5.00E+01	3.71E+01
3	46.71	7.90E+01	51.77	2.93E+01	8.52E+00	4.97E+01	5.25E+01
4	62.51	1.39E+02	82.83	3.87E+01	8.57E+00	1.01E+02	8.33E+01
5	75.53	2.11E+02	91.51			2.11E+02	9.15E+01
6	238.61	1.10E+02	50.54	4.80E+00	4.74E+00	1.05E+02	5.08E+01
7	295.11	3.27E+01	40.21			3.27E+01	4.02E+01
8	352.04	7.92E+01	34.28			7.92E+01	3.43E+01
9	511.26	9.35E+01	38.40	4.72E+01	4.90E+00	4.62E+01	3.87E+01
10	583.29	2.69E+01	24.50			2.69E+01	2.45E+01
11	610.42	5.70E+01	30.12			5.70E+01	3.01E+01
12	622.85	1.63E+01	11.66			1.63E+01	1.17E+01
13	675.02	2.85E+01	30.37			2.85E+01	3.04E+01
14	768.02	1.30E+01	14.00			1.30E+01	1.40E+01
15	958.18	7.05E+01	33.82			7.05E+01	3.38E+01
16	1238.30	1.59E+01	15.41			1.59E+01	1.54E+01
17	1300.35	1.19E+01	10.04			1.19E+01	1.00E+01
18	1351.41	8.17E+00	8.94			8.17E+00	8.94E+00
19	1356.96	6.00E+00	7.35			6.00E+00	7.35E+00
20	1460.30	1.47E+02	26.39			1.47E+02	2.64E+01
21	2613.93	1.00E+01	6.32	5.52E-01	9.86E-01	9.45E+00	6.40E+00

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.960	1460.81	*	10.67	1.34E+01	2.85E+00
TL-208	0.843	583.14	*	30.22	3.60E-01	3.31E-01
		860.37		4.48		
		2614.66	*	35.85	4.03E-01	2.76E-01
PB-210	0.993	46.50	*	4.25	7.31E-01	7.74E-01
PB-212	0.897	238.63	*	44.60	4.10E-01	2.03E-01
		300.09		3.41		
PB-214	0.998	295.21	*	19.19	3.58E-01	4.43E-01
		351.92	*	37.19	5.28E-01	2.37E-01
TH-231	0.530	25.64	*	14.70	2.91E-01	1.94E-01
		84.21		6.40		
TH-234	0.906	63.29	*	3.80	1.85E+00	1.54E+00
AM-243	0.887	74.67	*	66.00	2.46E-01	1.08E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:30:40AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
2	32.36	1.38922E-02	37.06		
9	511.26	1.28455E-02	41.86		
11	610.42	1.58348E-02	26.42		
12	622.85	4.53914E-03	35.68		
13	675.02	7.91462E-03	53.29		
14	768.02	3.61111E-03	53.85		
15	958.18	1.95774E-02	24.00		
16	1238.30	4.43008E-03	48.32	Tol.	CO-56
17	1300.35	3.29861E-03	42.26		
18	1351.41	2.26852E-03	54.76		
19	1356.96	1.66667E-03	61.24		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.96	1460.81	*	10.67	1.34E+01	2.85E+00
TL-208	0.84	583.14	*	30.22	3.60E-01	3.31E-01
		860.37		4.48		
		2614.66	*	35.85	4.03E-01	2.76E-01
PB-210	0.99	46.50	*	4.25	7.31E-01	7.74E-01
PB-212	0.89	238.63	*	44.60	4.10E-01	2.03E-01
		300.09		3.41		
PB-214	0.99	295.21	*	19.19	3.58E-01	4.43E-01
		351.92	*	37.19	5.28E-01	2.37E-01
TH-231	0.53	25.64	*	14.70	2.91E-01	1.94E-01
		84.21		6.40		
TH-234	0.90	63.29	*	3.80	1.85E+00	1.54E+00
AM-243	0.88	74.67	*	66.00	2.46E-01	1.08E-01

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.960	1.34E+01	2.85E+00	
TL-208	0.843	3.85E-01	2.12E-01	
PB-210	0.993	7.31E-01	7.74E-01	
PB-212	0.897	4.10E-01	2.03E-01	
PB-214	0.998	4.90E-01	2.09E-01	
TH-231	0.530	2.91E-01	1.94E-01	
TH-234	0.906	1.85E+00	1.54E+00	
AM-243	0.887	2.46E-01	1.08E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 11:30:40AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
2	32.36	1.38922E-02	37.06		
9	511.26	1.28455E-02	41.86		
11	610.42	1.58348E-02	26.42		
12	622.85	4.53914E-03	35.68		
13	675.02	7.91462E-03	53.29		
14	768.02	3.61111E-03	53.85		
15	958.18	1.95774E-02	24.00		
16	1238.30	4.43008E-03	48.32	Tol.	CO-56
17	1300.35	3.29861E-03	42.26		
18	1351.41	2.26852E-03	54.76		
19	1356.96	1.66667E-03	61.24		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-1.54E-01	1.67E+00	1.67E+00
+	NA-22	1274.54		99.94	5.42E-02	1.98E-01	1.98E-01
+	NA-24	1368.53		99.99	-1.81E+13	3.82E+13	5.67E+13
		2754.09		99.86	5.19E+12		3.82E+13
+	AL-26	1808.65		99.76	1.95E-03	1.09E-01	1.09E-01
+	K-40	1460.81	*	10.67	1.34E+01	1.82E+00	1.82E+00

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	@ AR-41	1293.64	99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88	94.40	-1.07E-01	6.86E-02	6.86E-02
		78.34	96.00	9.79E-02		8.65E-02
+	SC-46	889.25	99.98	-5.38E-02	2.01E-01	2.01E-01
		1120.51	99.99	-6.63E-02		2.36E-01
+	V-48	983.52	99.98	2.94E-03	5.47E-01	5.47E-01
		1312.10	97.50	1.22E-01		6.95E-01
+	CR-51	320.08	9.83	-6.16E-01	2.21E+00	2.21E+00
+	MN-54	834.83	99.97	-3.29E-02	1.31E-01	1.31E-01
+	CO-56	846.75	99.96	3.15E-02	2.08E-01	2.08E-01
		1037.75	14.03	-5.26E-01		1.45E+00
		1238.25	67.00	3.75E-02		4.53E-01
		1771.40	15.51	-1.38E-02		1.45E+00
		2598.48	16.90	1.17E-01		8.64E-01
+	CO-57	122.06	85.51	-8.88E-03	8.59E-02	8.59E-02
		136.48	10.60	-2.60E-01		7.95E-01
+	CO-58	810.76	99.40	1.83E-02	1.97E-01	1.97E-01
+	FE-59	1099.22	56.50	-2.48E-02	4.00E-01	4.00E-01
		1291.56	43.20	-1.97E-01		6.68E-01
+	CO-60	1173.22	100.00	-6.99E-02	1.88E-01	1.94E-01
		1332.49	100.00	5.02E-02		1.88E-01
+	ZN-65	1115.52	50.75	-4.26E-02	4.09E-01	4.09E-01
+	GA-67	93.31	35.70	5.11E+01	1.31E+02	1.31E+02
		208.95	2.24	-6.82E+02		2.36E+03
		300.22	16.00	-1.25E+01		3.85E+02
+	SE-75	121.11	16.70	-1.15E-01	1.55E-01	4.76E-01
		136.00	59.20	-4.92E-02		1.55E-01
		264.65	59.80	-1.22E-02		1.88E-01
		279.53	25.20	-1.08E-01		4.57E-01
		400.65	11.40	-5.62E-01		1.09E+00
+	RB-82	776.52	13.00	-9.95E-02	2.25E+00	2.25E+00
+	RB-83	520.41	46.00	5.64E-02	3.44E-01	3.44E-01
		529.64	30.30	-2.84E-01		4.50E-01
		552.65	16.40	-9.95E-03		1.06E+00
+	KR-85	513.99	0.43	4.39E+01	4.04E+01	4.04E+01
+	SR-85	513.99	99.27	2.64E-01	2.42E-01	2.42E-01
+	Y-88	898.02	93.40	5.09E-02	2.09E-01	2.09E-01
		1836.01	99.38	6.26E-02		2.29E-01
+	NB-93M	16.57	9.43	6.37E-01	4.28E-01	4.28E-01
+	NB-94	702.63	100.00	6.49E-03	1.29E-01	1.29E-01
		871.10	100.00	4.61E-02		1.41E-01
+	NB-95	765.79	99.81	-4.28E-02	2.46E-01	2.46E-01
+	NB-95M	235.69	25.00	-3.21E+01	1.67E+02	1.67E+02
+	ZR-95	724.18	43.70	1.55E-01	3.47E-01	4.93E-01
		756.72	55.30	1.33E-01		3.47E-01
+	MO-99	181.06	6.20	-1.43E+03	2.27E+03	2.89E+03
		739.58	12.80	-9.99E+01		2.27E+03

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	MO-99	778.00	4.50	2.38E+02	2.27E+03	5.46E+03
+	RU-103	497.08	89.00	4.97E-02	2.17E-01	2.17E-01
+	RU-106	621.84	9.80	-1.90E-01	1.17E+00	1.17E+00
+	AG-108M	433.93	89.90	-2.24E-02	1.30E-01	1.30E-01
		614.37	90.40	1.39E-02		1.60E-01
		722.95	90.50	7.70E-03		1.65E-01
+	CD-109	88.03	3.72	-5.37E-01	2.18E+00	2.18E+00
+	AG-110M	657.75	93.14	2.33E-02	1.59E-01	1.59E-01
		677.61	10.53	-3.89E-01		1.41E+00
		706.67	16.46	-1.35E-02		8.84E-01
		763.93	21.98	-2.16E-01		6.28E-01
		884.67	71.63	-3.23E-02		2.27E-01
		1384.27	23.94	1.26E-01		7.93E-01
+	CD-113M	263.70	0.02	-4.72E+01	4.03E+02	4.03E+02
+	SN-113	255.12	1.93	1.08E-01	2.00E-01	5.70E+00
		391.69	64.90	-2.25E-02		2.00E-01
+	TE123M	159.00	84.10	-1.47E-02	1.14E-01	1.14E-01
+	SB-124	602.71	97.87	-3.92E-02	1.94E-01	1.94E-01
		645.85	7.26	1.66E+00		2.80E+00
		722.78	11.10	-4.36E-01		1.85E+00
		1691.02	49.00	3.54E-02		3.43E-01
+	I-125	35.49	6.49	5.55E-02	9.83E-01	9.83E-01
+	SB-125	176.33	6.89	-3.12E-01	4.27E-01	1.24E+00
		427.89	29.33	1.42E-01		4.27E-01
		463.38	10.35	4.68E-01		1.31E+00
		600.56	17.80	7.41E-02		7.77E-01
		635.90	11.32	2.87E-01		1.22E+00
+	SB-126	414.70	83.30	-3.19E-01	6.62E-01	6.62E-01
		666.33	99.60	1.59E-01		8.13E-01
		695.00	99.60	-1.04E-02		7.35E-01
		720.50	53.80	-6.27E-01		1.37E+00
+	SN-126	87.57	37.00	-5.15E-02	2.09E-01	2.09E-01
+	SB-127	473.00	25.00	-6.15E+00	8.90E+01	1.11E+02
		685.20	35.70	-1.20E+01		8.90E+01
		783.80	14.70	-3.65E+01		1.83E+02
+	I-129	29.78	57.00	-5.57E-02	7.53E-02	7.53E-02
		33.60	13.20	-5.93E-02		3.27E-01
		39.58	7.52	-6.52E-02		6.09E-01
+	I-131	284.30	6.05	-1.25E+00	1.73E+00	2.08E+01
		364.48	81.20	3.04E-01		1.73E+00
		636.97	7.26	-2.97E+00		2.41E+01
		722.89	1.80	-2.55E+01		1.08E+02
+	TE-132	49.72	13.10	-3.77E+00	6.26E+01	2.45E+02
		228.16	88.00	-8.11E+00		6.26E+01
+	BA-133	81.00	33.00	7.39E-03	2.06E-01	2.38E-01
		302.84	17.80	-5.06E-02		5.55E-01
		356.01	60.00	-3.46E-02		2.06E-01
+	I-133	529.87	86.30	-2.30E+09	3.64E+09	3.64E+09

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		CS-134	563.23	8.38	-5.99E-01	1.65E-01	1.47E+00
			569.32	15.43	1.73E-01		7.97E-01
			604.70	97.60	5.51E-03		1.65E-01
			795.84	85.40	-3.13E-02		1.75E-01
			801.93	8.73	2.90E-01		1.73E+00
+		CS-135	268.24	16.00	-2.17E-01	5.99E-01	5.99E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	-7.73E-01	8.05E-01	4.92E+00
			163.89	4.61	3.25E+00		9.16E+00
			176.55	13.56	-7.61E-01		3.02E+00
			273.65	12.66	1.28E+00		4.01E+00
			340.57	48.50	-2.11E-01		1.09E+00
			818.50	99.70	1.91E-02		8.05E-01
			1048.07	79.60	-2.50E-02		1.04E+00
			1235.34	19.70	6.83E-01		5.59E+00
+		CS-137	661.65	85.12	1.94E-02	1.69E-01	1.69E-01
+		LA-138	788.74	34.00	-1.20E-01	2.73E-01	3.85E-01
			1435.80	66.00	1.09E-01		2.73E-01
+		CE-139	165.85	80.35	4.90E-02	1.26E-01	1.26E-01
+		BA-140	162.64	6.70	3.15E+00	2.43E+00	6.51E+00
			304.84	4.50	-7.67E+00		1.07E+01
			423.70	3.20	-2.42E+00		1.86E+01
			437.55	2.00	5.99E+00		2.96E+01
			537.32	25.00	4.32E-01		2.43E+00
+		LA-140	328.77	20.50	-3.43E-01	8.94E-01	2.66E+00
			487.03	45.50	1.03E-01		1.32E+00
			815.85	23.50	-8.96E-01		3.19E+00
			1596.49	95.49	4.70E-02		8.94E-01
+		CE-141	145.44	48.40	1.27E-01	3.12E-01	3.12E-01
+		CE-143	57.36	11.80	3.45E+03	1.02E+06	1.90E+06
			293.26	42.00	3.27E+05		1.02E+06
			664.55	5.20	-5.85E+05		1.05E+07
+		CE-144	133.54	10.80	1.59E-01	7.86E-01	7.86E-01
+		PM-144	476.78	42.00	-9.21E-02	1.20E-01	2.84E-01
			618.01	98.60	-5.18E-02		1.20E-01
			696.49	99.49	2.07E-03		1.43E-01
+		PM-145	36.85	21.70	2.38E-02	1.13E-01	2.08E-01
			37.36	39.70	-1.22E-02		1.13E-01
			42.30	15.10	1.20E-02		3.37E-01
			72.40	2.31	2.47E+00		3.35E+00
+		PM-146	453.90	39.94	-9.51E-02	2.77E-01	2.77E-01
			735.90	14.01	2.10E-01		1.08E+00
			747.13	13.10	3.96E-01		1.16E+00
+		ND-147	91.11	28.90	2.75E+00	1.92E+00	1.92E+00
			531.02	13.10	-2.37E+00		5.71E+00
+		PM-149	285.90	3.10	7.44E+02	3.85E+04	3.85E+04
+		EU-152	121.78	20.50	-3.44E-02	3.32E-01	3.32E-01

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	EU-152	244.69		5.40	-9.85E-01	3.32E-01	2.02E+00
		344.27		19.13	5.72E-02		5.68E-01
		778.89		9.20	5.88E-02		1.35E+00
		964.01		10.40	3.19E-01		1.93E+00
		1085.78		7.22	1.41E-01		2.32E+00
		1112.02		9.60	7.91E-01		2.06E+00
		1407.95		14.94	1.27E-01		1.00E+00
+	GD-153	97.43		31.30	-3.72E-02	2.50E-01	2.50E-01
		103.18		22.20	2.98E-02		3.27E-01
+	EU-154	123.07		40.50	-9.58E-02	1.67E-01	1.67E-01
		723.30		19.70	3.56E-02		7.64E-01
		873.19		11.50	-1.08E-01		1.18E+00
		996.32		10.30	-6.68E-01		1.34E+00
		1004.76		17.90	1.24E-01		8.70E-01
		1274.45		35.50	1.50E-01		5.48E-01
+	EU-155	86.50		30.90	-9.60E-02	2.51E-01	2.51E-01
		105.30		20.70	-1.80E-02		3.21E-01
+	EU-156	811.77		10.40	1.89E+00	5.74E+00	5.74E+00
		1153.47		7.20	1.17E+00		1.04E+01
		1230.71		8.90	2.19E+00		8.12E+00
+	HO-166M	184.41		72.60	1.64E-01	1.38E-01	1.38E-01
		280.45		29.60	-1.41E-01		3.16E-01
		410.94		11.10	9.97E-02		9.80E-01
		711.69		54.10	5.47E-02		2.68E-01
+	TM-171	66.72		0.14	-1.38E+01	4.89E+01	4.89E+01
+	HF-172	81.75		4.52	-5.97E-02	6.48E-01	1.72E+00
		125.81		11.30	-4.27E-02		6.48E-01
+	LU-172	181.53		20.60	1.37E+00	7.02E+00	1.03E+01
		810.06		16.63	1.84E+00		1.98E+01
		912.12		15.25	1.77E+01		3.09E+01
		1093.66		62.50	3.35E+00		7.02E+00
+	LU-173	100.72		5.24	-4.09E-01	5.10E-01	1.33E+00
		272.11		21.20	2.80E-01		5.10E-01
+	HF-175	343.40		84.00	1.81E-02	1.75E-01	1.75E-01
+	LU-176	88.34		13.30	2.69E-01	1.04E-01	5.97E-01
		201.83		86.00	-4.12E-03		1.04E-01
		306.78		94.00	-6.00E-03		1.07E-01
+	TA-182	67.75		41.20	-2.94E-01	1.88E-01	1.88E-01
		1121.30		34.90	-2.40E-01		6.19E-01
		1189.05		16.23	-4.78E-01		1.47E+00
		1221.41		26.98	-4.50E-02		8.27E-01
		1231.02		11.44	5.17E-01		1.92E+00
+	IR-192	308.46		29.68	9.46E-02	3.40E-01	4.61E-01
		468.07		48.10	-5.76E-02		3.40E-01
+	HG-203	279.19		77.30	-4.61E-02	1.96E-01	1.96E-01
+	BI-207	569.67		97.72	2.66E-02	1.23E-01	1.23E-01
		1063.62		74.90	7.23E-02		2.48E-01
+	TL-208	583.14	*	30.22	3.60E-01	2.41E-01	5.26E-01
		860.37		4.48	-4.42E-02		2.97E+00

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	2614.66	*	35.85	4.03E-01	2.41E-01	2.41E-01
+	BI-210M	262.00		45.00	-7.56E-02	2.01E-01	2.01E-01
		300.00		23.00	-4.81E-02		4.53E-01
+	PB-210	46.50	*	4.25	7.31E-01	1.26E+00	1.26E+00
+	PB-211	404.84		2.90	3.31E-01	3.84E+00	3.84E+00
		831.96		2.90	-3.89E-01		4.55E+00
+	BI-212	727.17		11.80	4.57E-01	1.36E+00	1.36E+00
		1620.62		2.75	3.87E-01		5.46E+00
+	PB-212	238.63	*	44.60	4.10E-01	3.09E-01	3.09E-01
		300.09		3.41	-3.25E-01		3.06E+00
+	BI-214	609.31		46.30	3.81E-01	3.95E-01	3.95E-01
		1120.29		15.10	-3.42E-01		1.22E+00
		1764.49		15.80	-2.23E-01		1.15E+00
		2204.22		4.98	3.38E-01		4.10E+00
+	PB-214	295.21	*	19.19	3.58E-01	3.40E-01	7.25E-01
		351.92	*	37.19	5.28E-01		3.40E-01
+	RN-219	401.80		6.50	-1.81E-01	1.64E+00	1.64E+00
+	RA-223	323.87		3.88	0.00E+00	2.68E+00	2.68E+00
+	RA-224	240.98		3.95	1.62E-01	3.58E+00	3.58E+00
+	RA-225	40.00		31.00	-6.51E-02	6.08E-01	6.08E-01
+	RA-226	186.21		3.28	3.43E+00	3.03E+00	3.03E+00
+	TH-227	50.10		8.40	-9.69E-03	6.29E-01	6.29E-01
		236.00		11.50	-2.14E-01		1.11E+00
		256.20		6.30	-9.84E-01		1.39E+00
+	AC-228	338.32		11.40	1.35E-01	7.53E-01	9.71E-01
		911.07		27.70	3.91E-01		7.53E-01
		969.11		16.60	2.48E-01		1.11E+00
+	TH-230	48.44		16.90	-1.37E-02	3.13E-01	3.13E-01
		62.85		4.60	1.87E+00		1.45E+00
		67.67		0.37	-2.72E+01		1.75E+01
+	PA-231	283.67		1.60	5.92E-02	4.27E+00	5.94E+00
		302.67		2.30	-3.89E-01		4.27E+00
+	TH-231	25.64	*	14.70	2.91E-01	3.09E-01	3.09E-01
		84.21		6.40	3.66E-01		1.15E+00
+	PA-233	311.98		38.60	7.01E-02	5.86E-01	5.86E-01
+	PA-234	131.20		20.40	1.82E-01	3.78E-01	3.78E-01
		733.99		8.80	-1.32E-01		1.68E+00
		946.00		12.00	8.64E-01		1.43E+00
+	PA-234M	1001.03		0.92	-1.01E+00	1.68E+01	1.68E+01
+	TH-234	63.29	*	3.80	1.85E+00	2.50E+00	2.50E+00
+	U-235	143.76		10.50	2.71E-01	7.64E-01	7.64E-01
		163.35		4.70	6.50E-01		1.83E+00
		205.31		4.70	5.11E-02		1.87E+00
+	NP-237	86.50		12.60	-2.33E-01	6.09E-01	6.09E-01
+	NP-239	106.10		22.70	-1.16E+02	2.07E+03	2.07E+03
		228.18		10.70	-1.27E+03		6.00E+03
		277.60		14.10	-1.23E+03		4.85E+03

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54		35.90	1.28E-01	1.75E-01	1.75E-01
+	AM-243	74.67	*	66.00	2.46E-01	1.69E-01	1.69E-01
+	CM-243	209.75		3.29	-9.64E-01	6.88E-01	2.71E+00
		228.14		10.60	-1.11E-01		8.56E-01
		277.60		14.00	-1.74E-01		6.88E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.67E+00	1.67E+00	-1.54E-01	7.69E-01
	NA-22	1274.54		99.94	1.98E-01	1.98E-01	5.42E-02	8.69E-02
	NA-24	1368.53		99.99	5.67E+13	3.82E+13	-1.81E+13	2.43E+13
		2754.09		99.86	3.82E+13		5.19E+12	1.21E+13
	AL-26	1808.65		99.76	1.09E-01	1.09E-01	1.95E-03	3.84E-02
+	K-40	1460.81	*	10.67	1.82E+00	1.82E+00	1.34E+01	7.88E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.86E-02	6.86E-02	-1.07E-01	3.33E-02
		78.34		96.00	8.65E-02		9.79E-02	4.21E-02
	SC-46	889.25		99.98	2.01E-01	2.01E-01	-5.38E-02	8.97E-02
		1120.51		99.99	2.36E-01		-6.63E-02	1.05E-01
	V-48	983.52		99.98	5.47E-01	5.47E-01	2.94E-03	2.40E-01
		1312.10		97.50	6.95E-01		1.22E-01	3.02E-01
	CR-51	320.08		9.83	2.21E+00	2.21E+00	-6.16E-01	1.04E+00
	MN-54	834.83		99.97	1.31E-01	1.31E-01	-3.29E-02	5.74E-02
	CO-56	846.75		99.96	2.08E-01	2.08E-01	3.15E-02	9.39E-02
		1037.75		14.03	1.45E+00		-5.26E-01	6.34E-01
		1238.25		67.00	4.53E-01		3.75E-02	2.04E-01

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	1771.40	15.51	1.45E+00	2.08E-01	-1.38E-02	5.93E-01
	2598.48	16.90	8.64E-01		1.17E-01	2.73E-01
CO-57	122.06	85.51	8.59E-02	8.59E-02	-8.88E-03	4.12E-02
	136.48	10.60	7.95E-01		-2.60E-01	3.82E-01
CO-58	810.76	99.40	1.97E-01	1.97E-01	1.83E-02	8.81E-02
FE-59	1099.22	56.50	4.00E-01	4.00E-01	-2.48E-02	1.71E-01
	1291.56	43.20	6.68E-01		-1.97E-01	2.90E-01
CO-60	1173.22	100.00	1.94E-01	1.88E-01	-6.99E-02	8.60E-02
	1332.49	100.00	1.88E-01		5.02E-02	8.17E-02
ZN-65	1115.52	50.75	4.09E-01	4.09E-01	-4.26E-02	1.82E-01
GA-67	93.31	35.70	1.31E+02	1.31E+02	5.11E+01	6.36E+01
	208.95	2.24	2.36E+03		-6.82E+02	1.12E+03
	300.22	16.00	3.85E+02		-1.25E+01	1.82E+02
SE-75	121.11	16.70	4.76E-01	1.55E-01	-1.15E-01	2.28E-01
	136.00	59.20	1.55E-01		-4.92E-02	7.45E-02
	264.65	59.80	1.88E-01		-1.22E-02	8.88E-02
	279.53	25.20	4.57E-01		-1.08E-01	2.16E-01
	400.65	11.40	1.09E+00		-5.62E-01	5.06E-01
RB-82	776.52	13.00	2.25E+00	2.25E+00	-9.95E-02	9.98E-01
RB-83	520.41	46.00	3.44E-01	3.44E-01	5.64E-02	1.58E-01
	529.64	30.30	4.50E-01		-2.84E-01	2.04E-01
	552.65	16.40	1.06E+00		-9.95E-03	4.91E-01
KR-85	513.99	0.43	4.04E+01	4.04E+01	4.39E+01	1.91E+01
SR-85	513.99	99.27	2.42E-01	2.42E-01	2.64E-01	1.14E-01
Y-88	898.02	93.40	2.09E-01	2.09E-01	5.09E-02	9.38E-02
	1836.01	99.38	2.29E-01		6.26E-02	9.50E-02
NB-93M	16.57	9.43	4.28E-01	4.28E-01	6.37E-01	2.06E-01
NB-94	702.63	100.00	1.29E-01	1.29E-01	6.49E-03	5.77E-02
	871.10	100.00	1.41E-01		4.61E-02	6.25E-02
NB-95	765.79	99.81	2.46E-01	2.46E-01	-4.28E-02	1.10E-01
NB-95M	235.69	25.00	1.67E+02	1.67E+02	-3.21E+01	8.04E+01
ZR-95	724.18	43.70	4.93E-01	3.47E-01	1.55E-01	2.25E-01
	756.72	55.30	3.47E-01		1.33E-01	1.56E-01
MO-99	181.06	6.20	2.89E+03	2.27E+03	-1.43E+03	1.38E+03
	739.58	12.80	2.27E+03		-9.99E+01	1.03E+03
	778.00	4.50	5.46E+03		2.38E+02	2.41E+03
RU-103	497.08	89.00	2.17E-01	2.17E-01	4.97E-02	9.97E-02
RU-106	621.84	9.80	1.17E+00	1.17E+00	-1.90E-01	5.20E-01
AG-108M	433.93	89.90	1.30E-01	1.30E-01	-2.24E-02	6.03E-02
	614.37	90.40	1.60E-01		1.39E-02	7.36E-02
	722.95	90.50	1.65E-01		7.70E-03	7.51E-02
CD-109	88.03	3.72	2.18E+00	2.18E+00	-5.37E-01	1.06E+00
AG-110M	657.75	93.14	1.59E-01	1.59E-01	2.33E-02	7.22E-02
	677.61	10.53	1.41E+00		-3.89E-01	6.38E-01
	706.67	16.46	8.84E-01		-1.35E-02	3.98E-01
	763.93	21.98	6.28E-01		-2.16E-01	2.79E-01
	884.67	71.63	2.27E-01		-3.23E-02	1.01E-01
	1384.27	23.94	7.93E-01		1.26E-01	3.40E-01
CD-113M	263.70	0.02	4.03E+02	4.03E+02	-4.72E+01	1.90E+02
SN-113	255.12	1.93	5.70E+00	2.00E-01	1.08E-01	2.69E+00
	391.69	64.90	2.00E-01		-2.25E-02	9.29E-02
TE123M	159.00	84.10	1.14E-01	1.14E-01	-1.47E-02	5.44E-02
SB-124	602.71	97.87	1.94E-01	1.94E-01	-3.92E-02	8.90E-02

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SB-124	645.85	7.26	2.80E+00	1.94E-01	1.66E+00	1.28E+00
	722.78	11.10	1.85E+00		-4.36E-01	8.40E-01
	1691.02	49.00	3.43E-01		3.54E-02	1.28E-01
I-125	35.49	6.49	9.83E-01	9.83E-01	5.55E-02	4.74E-01
SB-125	176.33	6.89	1.24E+00	4.27E-01	-3.12E-01	5.93E-01
	427.89	29.33	4.27E-01		1.42E-01	2.00E-01
	463.38	10.35	1.31E+00		4.68E-01	6.11E-01
	600.56	17.80	7.77E-01		7.41E-02	3.56E-01
	635.90	11.32	1.22E+00		2.87E-01	5.55E-01
SB-126	414.70	83.30	6.62E-01	6.62E-01	-3.19E-01	3.06E-01
	666.33	99.60	8.13E-01		1.59E-01	3.72E-01
	695.00	99.60	7.35E-01		-1.04E-02	3.32E-01
	720.50	53.80	1.37E+00		-6.27E-01	6.15E-01
SN-126	87.57	37.00	2.09E-01	2.09E-01	-5.15E-02	1.01E-01
SB-127	473.00	25.00	1.11E+02	8.90E+01	-6.15E+00	5.17E+01
	685.20	35.70	8.90E+01		-1.20E+01	4.04E+01
	783.80	14.70	1.83E+02		-3.65E+01	8.04E+01
I-129	29.78	57.00	7.53E-02	7.53E-02	-5.57E-02	3.63E-02
	33.60	13.20	3.27E-01		-5.93E-02	1.57E-01
	39.58	7.52	6.09E-01		-6.52E-02	2.94E-01
I-131	284.30	6.05	2.08E+01	1.73E+00	-1.25E+00	9.81E+00
	364.48	81.20	1.73E+00		3.04E-01	8.08E-01
	636.97	7.26	2.41E+01		-2.97E+00	1.09E+01
	722.89	1.80	1.08E+02		-2.55E+01	4.92E+01
TE-132	49.72	13.10	2.45E+02	6.26E+01	-3.77E+00	1.18E+02
	228.16	88.00	6.26E+01		-8.11E+00	2.97E+01
BA-133	81.00	33.00	2.38E-01	2.06E-01	7.39E-03	1.16E-01
	302.84	17.80	5.55E-01		-5.06E-02	2.61E-01
	356.01	60.00	2.06E-01		-3.46E-02	9.72E-02
I-133	529.87	86.30	3.64E+09	3.64E+09	-2.30E+09	1.65E+09
CS-134	563.23	8.38	1.47E+00	1.65E-01	-5.99E-01	6.70E-01
	569.32	15.43	7.97E-01		1.73E-01	3.63E-01
	604.70	97.60	1.65E-01		5.51E-03	7.63E-02
	795.84	85.40	1.75E-01		-3.13E-02	7.86E-02
	801.93	8.73	1.73E+00		2.90E-01	7.74E-01
CS-135	268.24	16.00	5.99E-01	5.99E-01	-2.17E-01	2.83E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	4.92E+00	8.05E-01	-7.73E-01	2.35E+00
	163.89	4.61	9.16E+00		3.25E+00	4.40E+00
	176.55	13.56	3.02E+00		-7.61E-01	1.44E+00
	273.65	12.66	4.01E+00		1.28E+00	1.90E+00
	340.57	48.50	1.09E+00		-2.11E-01	5.11E-01
	818.50	99.70	8.05E-01		1.91E-02	3.65E-01
	1048.07	79.60	1.04E+00		-2.50E-02	4.59E-01
	1235.34	19.70	5.59E+00		6.83E-01	2.51E+00
CS-137	661.65	85.12	1.69E-01	1.69E-01	1.94E-02	7.74E-02
LA-138	788.74	34.00	3.85E-01	2.73E-01	-1.20E-01	1.71E-01
	1435.80	66.00	2.73E-01		1.09E-01	1.17E-01
CE-139	165.85	80.35	1.26E-01	1.26E-01	4.90E-02	6.03E-02
BA-140	162.64	6.70	6.51E+00	2.43E+00	3.15E+00	3.12E+00
	304.84	4.50	1.07E+01		-7.67E+00	5.04E+00

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-140	423.70	3.20	1.86E+01	2.43E+00	-2.42E+00	8.68E+00
	437.55	2.00	2.96E+01		5.99E+00	1.37E+01
	537.32	25.00	2.43E+00		4.32E-01	1.11E+00
LA-140	328.77	20.50	2.66E+00	8.94E-01	-3.43E-01	1.25E+00
	487.03	45.50	1.32E+00		1.03E-01	6.09E-01
	815.85	23.50	3.19E+00		-8.96E-01	1.43E+00
	1596.49	95.49	8.94E-01		4.70E-02	3.71E-01
CE-141	145.44	48.40	3.12E-01	3.12E-01	1.27E-01	1.50E-01
CE-143	57.36	11.80	1.90E+06	1.02E+06	3.45E+03	9.19E+05
	293.26	42.00	1.02E+06		3.27E+05	4.84E+05
	664.55	5.20	1.05E+07		-5.85E+05	4.76E+06
CE-144	133.54	10.80	7.86E-01	7.86E-01	1.59E-01	3.78E-01
PM-144	476.78	42.00	2.84E-01	1.20E-01	-9.21E-02	1.31E-01
	618.01	98.60	1.20E-01		-5.18E-02	5.36E-02
	696.49	99.49	1.43E-01		2.07E-03	6.44E-02
PM-145	36.85	21.70	2.08E-01	1.13E-01	2.38E-02	1.00E-01
	37.36	39.70	1.13E-01		-1.22E-02	5.47E-02
	42.30	15.10	3.37E-01		1.20E-02	1.63E-01
	72.40	2.31	3.35E+00		2.47E+00	1.63E+00
PM-146	453.90	39.94	2.77E-01	2.77E-01	-9.51E-02	1.28E-01
	735.90	14.01	1.08E+00		2.10E-01	4.91E-01
	747.13	13.10	1.16E+00		3.96E-01	5.25E-01
ND-147	91.11	28.90	1.92E+00	1.92E+00	2.75E+00	9.32E-01
	531.02	13.10	5.71E+00		-2.37E+00	2.60E+00
PM-149	285.90	3.10	3.85E+04	3.85E+04	7.44E+02	1.81E+04
EU-152	121.78	20.50	3.32E-01	3.32E-01	-3.44E-02	1.59E-01
	244.69	5.40	2.02E+00		-9.85E-01	9.64E-01
	344.27	19.13	5.68E-01		5.72E-02	2.67E-01
	778.89	9.20	1.35E+00		5.88E-02	5.96E-01
	964.01	10.40	1.93E+00		3.19E-01	8.81E-01
	1085.78	7.22	2.32E+00		1.41E-01	1.02E+00
	1112.02	9.60	2.06E+00		7.91E-01	9.24E-01
	1407.95	14.94	1.00E+00		1.27E-01	4.17E-01
GD-153	97.43	31.30	2.50E-01	2.50E-01	-3.72E-02	1.21E-01
	103.18	22.20	3.27E-01		2.98E-02	1.58E-01
EU-154	123.07	40.50	1.67E-01	1.67E-01	-9.58E-02	7.99E-02
	723.30	19.70	7.64E-01		3.56E-02	3.47E-01
	873.19	11.50	1.18E+00		-1.08E-01	5.20E-01
	996.32	10.30	1.34E+00		-6.68E-01	5.82E-01
	1004.76	17.90	8.70E-01		1.24E-01	3.83E-01
	1274.45	35.50	5.48E-01		1.50E-01	2.41E-01
EU-155	86.50	30.90	2.51E-01	2.51E-01	-9.60E-02	1.22E-01
	105.30	20.70	3.21E-01		-1.80E-02	1.55E-01
EU-156	811.77	10.40	5.74E+00	5.74E+00	1.89E+00	2.58E+00
	1153.47	7.20	1.04E+01		1.17E+00	4.60E+00
	1230.71	8.90	8.12E+00		2.19E+00	3.56E+00
HO-166M	184.41	72.60	1.38E-01	1.38E-01	1.64E-01	6.64E-02
	280.45	29.60	3.16E-01		-1.41E-01	1.49E-01
	410.94	11.10	9.80E-01		9.97E-02	4.55E-01
	711.69	54.10	2.68E-01		5.47E-02	1.22E-01
TM-171	66.72	0.14	4.89E+01	4.89E+01	-1.38E+01	2.37E+01
HF-172	81.75	4.52	1.72E+00	6.48E-01	-5.97E-02	8.34E-01
	125.81	11.30	6.48E-01		-4.27E-02	3.11E-01

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LU-172	181.53		20.60	1.03E+01	7.02E+00	1.37E+00	4.95E+00
		810.06		16.63	1.98E+01		1.84E+00	8.85E+00
		912.12		15.25	3.09E+01		1.77E+01	1.42E+01
		1093.66		62.50	7.02E+00		3.35E+00	3.14E+00
	LU-173	100.72		5.24	1.33E+00	5.10E-01	-4.09E-01	6.41E-01
		272.11		21.20	5.10E-01		2.80E-01	2.42E-01
	HF-175	343.40		84.00	1.75E-01	1.75E-01	1.81E-02	8.24E-02
	LU-176	88.34		13.30	5.97E-01	1.04E-01	2.69E-01	2.90E-01
		201.83		86.00	1.04E-01		-4.12E-03	4.95E-02
		306.78		94.00	1.07E-01		-6.00E-03	5.03E-02
	TA-182	67.75		41.20	1.88E-01	1.88E-01	-2.94E-01	9.13E-02
		1121.30		34.90	6.19E-01		-2.40E-01	2.74E-01
		1189.05		16.23	1.47E+00		-4.78E-01	6.52E-01
		1221.41		26.98	8.27E-01		-4.50E-02	3.64E-01
		1231.02		11.44	1.92E+00		5.17E-01	8.40E-01
	IR-192	308.46		29.68	4.61E-01	3.40E-01	9.46E-02	2.17E-01
		468.07		48.10	3.40E-01		-5.76E-02	1.58E-01
	HG-203	279.19		77.30	1.96E-01	1.96E-01	-4.61E-02	9.24E-02
	BI-207	569.67		97.72	1.23E-01	1.23E-01	2.66E-02	5.58E-02
		1063.62		74.90	2.48E-01		7.23E-02	1.11E-01
+	TL-208	583.14	*	30.22	5.26E-01	2.41E-01	3.60E-01	2.45E-01
		860.37		4.48	2.97E+00		-4.42E-02	1.31E+00
		2614.66	*	35.85	2.41E-01		4.03E-01	6.26E-02
	BI-210M	262.00		45.00	2.01E-01	2.01E-01	-7.56E-02	9.47E-02
		300.00		23.00	4.53E-01		-4.81E-02	2.14E-01
+	PB-210	46.50	*	4.25	1.26E+00	1.26E+00	7.31E-01	6.12E-01
	PB-211	404.84		2.90	3.84E+00	3.84E+00	3.31E-01	1.79E+00
		831.96		2.90	4.55E+00		-3.89E-01	2.01E+00
	BI-212	727.17		11.80	1.36E+00	1.36E+00	4.57E-01	6.20E-01
		1620.62		2.75	5.46E+00		3.87E-01	2.21E+00
+	PB-212	238.63	*	44.60	3.09E-01	3.09E-01	4.10E-01	1.49E-01
		300.09		3.41	3.06E+00		-3.25E-01	1.44E+00
	BI-214	609.31		46.30	3.95E-01	3.95E-01	3.81E-01	1.85E-01
		1120.29		15.10	1.22E+00		-3.42E-01	5.40E-01
		1764.49		15.80	1.15E+00		-2.23E-01	4.76E-01
		2204.22		4.98	4.10E+00		3.38E-01	1.68E+00
+	PB-214	295.21	*	19.19	7.25E-01	3.40E-01	3.58E-01	3.48E-01
		351.92	*	37.19	3.40E-01		5.28E-01	1.61E-01
	RN-219	401.80		6.50	1.64E+00	1.64E+00	-1.81E-01	7.60E-01
	RA-223	323.87		3.88	2.68E+00	2.68E+00	0.00E+00	1.26E+00
	RA-224	240.98		3.95	3.58E+00	3.58E+00	1.62E-01	1.73E+00
	RA-225	40.00		31.00	6.08E-01	6.08E-01	-6.51E-02	2.93E-01
	RA-226	186.21		3.28	3.03E+00	3.03E+00	3.43E+00	1.46E+00
	TH-227	50.10		8.40	6.29E-01	6.29E-01	-9.69E-03	3.04E-01
		236.00		11.50	1.11E+00		-2.14E-01	5.37E-01
		256.20		6.30	1.39E+00		-9.84E-01	6.56E-01
	AC-228	338.32		11.40	9.71E-01	7.53E-01	1.35E-01	4.57E-01
		911.07		27.70	7.53E-01		3.91E-01	3.46E-01
		969.11		16.60	1.11E+00		2.48E-01	5.03E-01
	TH-230	48.44		16.90	3.13E-01	3.13E-01	-1.37E-02	1.52E-01
		62.85		4.60	1.45E+00		1.87E+00	7.06E-01
		67.67		0.37	1.75E+01		-2.72E+01	8.46E+00
	PA-231	283.67		1.60	5.94E+00	4.27E+00	5.92E-02	2.80E+00

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PA-231	302.67		2.30	4.27E+00	4.27E+00	-3.89E-01	2.01E+00
+	TH-231	25.64	*	14.70	3.09E-01	3.09E-01	2.91E-01	1.50E-01
		84.21		6.40	1.15E+00		3.66E-01	5.58E-01
	PA-233	311.98		38.60	5.86E-01	5.86E-01	7.01E-02	2.76E-01
	PA-234	131.20		20.40	3.78E-01	3.78E-01	1.82E-01	1.82E-01
		733.99		8.80	1.68E+00		-1.32E-01	7.60E-01
		946.00		12.00	1.43E+00		8.64E-01	6.43E-01
	PA-234M	1001.03		0.92	1.68E+01	1.68E+01	-1.01E+00	7.37E+00
+	TH-234	63.29	*	3.80	2.50E+00	2.50E+00	1.85E+00	1.23E+00
	U-235	143.76		10.50	7.64E-01	7.64E-01	2.71E-01	3.67E-01
		163.35		4.70	1.83E+00		6.50E-01	8.79E-01
		205.31		4.70	1.87E+00		5.11E-02	8.93E-01
	NP-237	86.50		12.60	6.09E-01	6.09E-01	-2.33E-01	2.96E-01
	NP-239	106.10		22.70	2.07E+03	2.07E+03	-1.16E+02	9.97E+02
		228.18		10.70	6.00E+03		-1.27E+03	2.85E+03
		277.60		14.10	4.85E+03		-1.23E+03	2.29E+03
	AM-241	59.54		35.90	1.75E-01	1.75E-01	1.28E-01	8.51E-02
+	AM-243	74.67	*	66.00	1.69E-01	1.69E-01	2.46E-01	8.31E-02
	CM-243	209.75		3.29	2.71E+00	6.88E-01	-9.64E-01	1.29E+00
		228.14		10.60	8.56E-01		-1.11E-01	4.07E-01
		277.60		14.00	6.88E-01		-1.74E-01	3.25E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-14

FEEBRIS1D-17.030-031

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-17.030-031

Elapsed Live time: 3600
Elapsed Real Time: 3602

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	16	66
17:	52	38	34	34	32	38	39	59
25:	28	31	27	18	19	30	37	27
33:	39	16	25	35	18	35	31	30
41:	25	30	28	36	36	53	34	40
49:	17	27	34	27	27	31	34	20
57:	34	40	41	32	45	62	59	49
65:	33	34	33	29	31	39	36	46
73:	58	71	81	70	77	47	38	32
81:	31	45	42	37	36	55	39	40
89:	41	40	44	60	61	31	23	29
97:	19	30	24	32	33	23	20	24
105:	25	14	24	25	25	22	16	24
113:	28	27	19	13	25	23	15	29
121:	18	28	14	16	18	18	23	27
129:	33	26	23	17	21	30	29	19
137:	24	22	21	27	17	24	33	25
145:	20	23	16	21	19	17	15	15
153:	23	23	17	11	22	12	20	23
161:	27	21	19	23	27	20	15	21
169:	20	25	12	19	18	13	21	21
177:	17	13	19	21	15	25	21	29
185:	37	33	19	19	13	16	12	12
193:	13	24	13	15	15	15	20	19
201:	15	13	18	11	21	9	20	19
209:	13	15	11	13	16	20	16	24
217:	17	13	20	19	14	14	15	14
225:	14	8	16	17	19	10	9	14
233:	16	10	19	29	38	69	33	18
241:	29	29	17	18	14	10	13	9
249:	14	15	15	9	6	12	13	10
257:	13	9	10	10	12	12	16	7
265:	5	13	12	14	10	12	15	14
273:	8	15	17	12	13	8	10	10
281:	3	12	11	10	9	16	9	7
289:	10	10	9	9	13	18	16	15
297:	11	12	9	10	6	10	9	11
305:	7	11	8	5	14	12	13	10
313:	11	8	10	9	8	11	13	7
321:	6	12	7	9	13	12	5	9
329:	8	11	8	11	7	8	20	5
337:	11	9	7	11	12	5	13	9
345:	6	8	12	5	6	18	21	34
353:	16	3	9	3	4	6	3	6
361:	8	10	9	7	11	2	8	6

369:	11	6	8	8	3	4	8	5

Sample Title: FEEBRIS1D-17.030-031

Channel								
377:	7	6	5	9	8	11	4	6
385:	9	13	6	0	11	10	6	7
393:	11	4	7	5	5	7	7	7
401:	5	7	6	6	7	10	10	4
409:	8	6	6	5	6	2	5	8
417:	4	7	5	8	9	5	8	9
425:	5	7	6	10	10	5	8	4
433:	3	8	6	7	8	7	8	6
441:	4	5	8	3	6	4	6	7
449:	5	2	5	7	7	4	6	4
457:	7	5	7	10	12	11	1	3
465:	9	10	5	6	6	7	9	2
473:	5	5	9	6	4	7	4	3
481:	6	4	6	7	6	8	5	3
489:	3	5	5	6	5	5	6	2
497:	5	5	5	5	4	2	1	5
505:	7	3	2	12	15	17	20	17
513:	4	4	8	7	6	4	7	3
521:	1	6	7	5	2	2	9	6
529:	3	2	6	1	1	5	7	4
537:	6	2	3	6	5	4	3	6
545:	2	5	4	4	7	6	7	5
553:	4	12	2	3	8	10	3	7
561:	8	2	3	4	1	3	5	3
569:	5	5	2	3	8	3	5	2
577:	5	7	3	4	8	17	12	9
585:	3	6	2	5	8	5	2	2
593:	2	1	8	6	5	1	6	5
601:	6	4	4	4	4	6	8	14
609:	13	15	5	5	6	4	2	5
617:	1	2	1	4	1	5	3	6
625:	0	0	4	3	3	3	5	3
633:	5	5	3	7	3	1	4	2
641:	5	3	5	4	8	5	4	3
649:	3	1	3	3	2	5	4	5
657:	5	5	3	1	4	3	3	6
665:	8	6	2	1	8	4	8	3
673:	3	4	3	3	6	2	5	2
681:	4	2	8	2	4	2	3	4
689:	4	4	4	5	7	2	0	5
697:	1	2	4	3	3	3	2	3
705:	3	3	4	4	2	4	2	5
713:	2	4	6	4	2	3	1	1
721:	5	4	3	5	7	3	5	4
729:	5	4	3	1	5	3	3	3
737:	5	5	5	3	1	1	5	2
745:	5	5	2	5	1	4	3	3
753:	1	5	1	3	5	1	6	1
761:	1	0	2	1	3	3	5	5
769:	4	3	1	2	3	5	3	3
777:	0	2	3	0	3	0	4	1
785:	1	1	4	2	5	2	5	0
793:	6	4	2	3	1	4	1	6

801:	2	3	3	2	3	2	3	1

Sample Title: FEEBRIS1D-17.030-031

Channel								
809:	4	1	3	1	3	7	4	1
817:	2	2	2	6	7	1	3	5
825:	5	4	2	4	3	0	1	2
833:	2	3	1	3	2	2	0	3
841:	2	4	3	5	2	3	3	3
849:	1	4	2	4	4	1	0	3
857:	1	3	0	0	3	6	2	0
865:	3	0	4	1	2	2	2	2
873:	2	1	4	2	1	2	6	0
881:	3	4	2	2	3	2	2	4
889:	5	0	3	3	2	5	5	2
897:	0	3	1	2	2	5	1	2
905:	2	4	2	4	6	6	10	7
913:	4	1	3	2	5	2	1	3
921:	2	1	3	3	1	0	3	4
929:	6	1	1	6	8	1	5	3
937:	2	1	1	1	0	1	1	6
945:	2	1	2	3	3	7	1	2
953:	2	1	3	4	4	3	4	3
961:	1	3	5	5	6	1	8	3
969:	4	3	2	0	2	1	2	2
977:	0	1	2	0	1	2	1	3
985:	1	3	4	5	0	4	4	3
993:	0	2	5	2	0	1	1	0
1001:	2	4	2	4	4	0	1	1
1009:	1	1	5	1	1	3	5	3
1017:	1	2	1	1	1	1	3	2
1025:	2	5	0	2	1	3	5	3
1033:	2	1	3	2	1	2	1	2
1041:	3	3	2	1	2	2	3	4
1049:	5	1	1	1	2	1	3	3
1057:	1	2	2	1	2	4	0	3
1065:	6	3	3	1	1	3	4	1
1073:	0	4	3	0	1	2	1	1
1081:	0	2	1	2	1	2	3	1
1089:	5	1	4	1	4	3	3	3
1097:	1	2	0	1	1	0	1	0
1105:	1	2	1	4	0	4	2	1
1113:	2	4	5	3	1	2	3	5
1121:	2	2	1	2	2	3	3	2
1129:	3	3	0	2	8	2	2	2
1137:	1	1	4	1	3	2	2	2
1145:	1	3	0	0	4	3	2	1
1153:	2	3	3	3	0	2	5	1
1161:	1	1	3	1	5	2	4	5
1169:	3	3	2	2	2	1	2	2
1177:	4	2	5	2	3	2	3	5
1185:	0	1	4	5	0	5	1	2
1193:	4	4	5	1	6	3	2	0
1201:	4	3	3	5	2	4	4	7
1209:	3	3	0	2	3	3	4	1
1217:	1	2	2	0	3	7	0	1
1225:	2	2	2	1	2	3	3	3

1233:	1	0	2	1	4	7	6	3

Sample Title: FEEBRIS1D-17.030-031

Channel								
1241:	3	3	2	6	3	3	2	1
1249:	1	2	1	1	1	3	4	3
1257:	1	1	0	3	1	3	0	2
1265:	3	2	0	1	2	1	0	4
1273:	1	3	1	1	5	2	1	1
1281:	3	2	4	2	2	4	0	0
1289:	3	3	2	0	3	3	1	1
1297:	2	3	1	4	3	3	0	0
1305:	2	3	0	1	5	2	0	0
1313:	1	4	1	1	1	0	2	1
1321:	2	1	3	2	1	0	1	3
1329:	1	0	2	3	2	2	0	2
1337:	1	3	0	4	1	0	0	1
1345:	1	1	1	0	2	0	4	4
1353:	1	0	0	3	4	2	0	1
1361:	3	3	0	2	3	2	3	1
1369:	0	0	0	1	3	3	0	2
1377:	2	1	0	0	1	2	0	0
1385:	2	1	3	3	2	0	1	3
1393:	0	2	0	2	2	1	2	1
1401:	1	0	2	1	0	2	0	0
1409:	1	2	1	1	1	0	0	0
1417:	0	1	1	0	0	4	0	2
1425:	1	1	2	1	0	0	1	1
1433:	1	1	0	3	1	2	2	1
1441:	1	0	1	1	1	2	1	0
1449:	1	0	0	1	0	1	3	5
1457:	1	5	28	36	43	20	10	1
1465:	0	1	1	3	1	0	0	0
1473:	0	0	1	1	0	0	1	0
1481:	2	0	1	2	1	0	1	1
1489:	0	1	0	0	0	0	0	0
1497:	1	1	0	1	0	1	0	1
1505:	1	0	0	0	0	1	1	1
1513:	1	0	1	0	0	0	2	2
1521:	0	0	1	1	0	0	0	3
1529:	1	1	2	1	1	2	0	0
1537:	2	2	0	0	0	2	0	0
1545:	0	1	1	0	0	0	0	1
1553:	1	1	2	1	1	1	1	0
1561:	2	0	0	0	0	0	1	0
1569:	0	0	0	1	0	0	0	0
1577:	0	1	0	0	3	1	0	0
1585:	0	0	1	0	3	0	0	1
1593:	1	1	2	2	0	1	1	0
1601:	0	1	1	1	1	0	1	1
1609:	1	1	0	0	1	2	1	0
1617:	0	1	1	2	1	1	0	0
1625:	0	1	0	0	0	1	1	0
1633:	0	3	0	0	0	1	0	1
1641:	0	0	0	1	0	0	1	0
1649:	1	0	2	0	0	1	0	0
1657:	0	0	0	1	1	2	1	1

1665:	0	0	1	1	0	0	0	1

Sample Title: FEEBRIS1D-17.030-031

Channel								
1673:	0	0	0	0	0	0	0	1
1681:	0	0	0	1	0	0	0	1
1689:	0	0	0	0	0	0	2	0
1697:	0	0	1	0	1	1	0	0
1705:	0	2	0	0	0	0	0	0
1713:	1	0	1	0	0	0	0	0
1721:	1	0	0	0	0	0	0	1
1729:	0	3	1	1	1	0	2	0
1737:	1	2	0	0	0	0	1	0
1745:	0	0	1	0	1	0	0	0
1753:	0	1	0	0	1	1	2	0
1761:	0	0	0	3	2	0	2	0
1769:	1	0	2	0	0	0	0	0
1777:	2	0	0	0	1	0	0	1
1785:	0	0	0	1	1	0	1	1
1793:	1	1	0	0	0	0	2	0
1801:	1	0	0	0	0	0	0	0
1809:	1	1	0	0	0	0	0	0
1817:	0	2	1	1	0	1	0	1
1825:	0	0	0	0	0	1	0	0
1833:	0	1	2	0	1	0	0	1
1841:	3	1	0	0	0	1	2	1
1849:	0	0	1	1	0	0	0	1
1857:	0	0	1	0	1	1	0	0
1865:	2	1	0	0	0	0	0	1
1873:	0	0	0	0	0	0	0	0
1881:	0	0	0	1	1	1	0	0
1889:	0	0	0	1	0	0	0	1
1897:	0	1	0	0	0	0	0	0
1905:	0	0	0	2	0	0	0	1
1913:	0	2	0	0	0	0	0	0
1921:	0	1	1	0	1	0	1	0
1929:	0	0	1	0	0	0	0	0
1937:	0	0	0	0	0	0	1	0
1945:	0	0	0	0	1	0	1	0
1953:	0	1	0	0	0	0	0	2
1961:	0	1	0	2	0	1	0	0
1969:	0	0	0	1	0	1	0	1
1977:	2	0	0	0	0	0	0	1
1985:	0	1	0	0	1	0	0	0
1993:	0	0	0	0	0	0	0	0
2001:	0	1	3	0	0	0	1	1
2009:	0	1	0	1	0	1	0	1
2017:	2	0	1	0	0	0	0	0
2025:	0	0	1	2	0	0	0	1
2033:	0	2	1	0	0	0	0	0
2041:	0	1	0	1	0	1	1	1
2049:	0	0	0	0	2	0	1	2
2057:	0	1	1	0	0	1	0	1
2065:	0	1	1	0	1	0	0	0
2073:	0	2	0	1	0	0	0	1
2081:	0	0	0	2	0	0	0	0
2089:	0	0	0	1	0	1	0	0

2097:	0	0	0	0	0	0	1	1

Sample Title: FEEBRIS1D-17.030-031

Channel								
2105:	0	1	0	0	0	0	1	0
2113:	0	0	0	0	0	2	0	1
2121:	0	2	0	0	1	0	0	1
2129:	0	1	0	1	0	1	0	1
2137:	0	0	0	0	1	0	0	0
2145:	0	0	0	0	0	0	0	0
2153:	0	1	0	0	0	1	0	0
2161:	0	0	0	1	0	0	0	0
2169:	0	0	0	0	1	0	0	0
2177:	0	1	0	0	1	0	0	0
2185:	0	0	1	0	1	0	0	0
2193:	0	0	0	0	1	0	0	0
2201:	1	0	1	2	1	0	0	2
2209:	0	0	2	0	0	0	0	0
2217:	0	0	1	0	0	0	0	0
2225:	0	2	0	0	0	1	0	0
2233:	0	0	1	0	1	0	0	0
2241:	0	0	0	0	1	0	2	0
2249:	0	1	0	0	0	0	1	1
2257:	1	0	1	1	0	1	0	0
2265:	0	0	1	0	0	0	1	0
2273:	1	0	0	0	0	1	0	1
2281:	2	0	1	1	1	0	0	0
2289:	0	0	0	1	0	1	0	1
2297:	0	0	0	0	0	0	0	0
2305:	0	0	1	0	1	1	0	1
2313:	0	1	1	1	0	0	1	0
2321:	0	0	1	0	0	1	0	0
2329:	0	0	0	0	0	1	0	1
2337:	1	1	2	0	0	1	1	0
2345:	1	0	0	0	0	0	0	1
2353:	0	0	0	0	2	0	0	1
2361:	0	0	0	0	0	0	0	2
2369:	0	0	1	0	0	0	0	0
2377:	0	0	0	0	0	0	1	1
2385:	0	1	0	0	0	0	1	0
2393:	1	0	0	1	1	0	0	0
2401:	1	0	4	0	0	0	0	1
2409:	0	1	0	0	0	0	0	0
2417:	1	0	0	1	1	0	1	1
2425:	0	0	0	0	0	0	0	1
2433:	0	1	0	0	0	0	0	0
2441:	0	0	1	0	0	0	0	1
2449:	0	1	1	0	0	0	0	0
2457:	0	0	0	1	0	1	0	0
2465:	0	0	0	0	1	0	0	0
2473:	2	0	0	0	0	0	0	0
2481:	0	0	0	0	0	0	0	0
2489:	1	0	0	0	0	1	1	0
2497:	0	1	0	0	0	0	0	1
2505:	1	0	0	0	0	0	0	0
2513:	0	0	0	0	1	0	0	0
2521:	0	0	0	0	0	0	0	0

2529:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-17.030-031

Channel							
2537:	1	0	0	0	0	0	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	1	0	1	0	0	0
2561:	2	0	0	0	0	0	0	0
2569:	0	1	0	0	0	0	0	0
2577:	1	0	0	0	1	0	2	1
2585:	1	0	1	0	0	0	0	0
2593:	0	0	0	0	1	0	0	0
2601:	0	0	0	0	0	0	0	0
2609:	0	0	0	1	0	5	0	3
2617:	1	0	0	0	0	1	0	0
2625:	0	0	0	0	0	0	0	0
2633:	0	0	1	0	0	0	0	0
2641:	0	1	0	0	0	0	0	1
2649:	0	0	0	0	0	0	0	0
2657:	0	1	0	0	0	0	0	0
2665:	0	0	0	1	0	0	1	0
2673:	1	0	0	0	0	0	0	0
2681:	0	0	0	2	1	0	0	0
2689:	0	0	0	0	0	0	0	0
2697:	0	0	0	0	0	0	0	0
2705:	2	0	0	0	0	1	0	1
2713:	1	0	0	0	0	0	2	0
2721:	0	0	1	0	0	1	0	0
2729:	0	0	0	0	0	0	0	1
2737:	0	0	0	0	1	0	0	0
2745:	0	1	0	0	0	0	1	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	1	0	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	1	0	1	0	2	0	0
2801:	0	0	0	0	1	0	0	0
2809:	0	0	0	0	1	0	0	0
2817:	0	0	0	0	1	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	1	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	1
2857:	1	0	0	0	0	1	0	0
2865:	0	0	0	1	0	1	0	0
2873:	1	0	0	0	0	0	0	0
2881:	0	0	0	0	0	1	0	0
2889:	0	0	0	1	0	0	1	0
2897:	0	0	0	0	0	0	0	0
2905:	1	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	1	0
2929:	1	0	0	0	0	0	0	1
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-17.030-031

Channel								
2969:	0	0	1	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	1	1	0	0	0	0	0
2993:	0	0	1	1	1	0	0	1
3001:	0	0	0	0	1	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	1	0	0	1	0	0	1	0
3025:	0	0	0	0	0	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	1	0	1	0	0	0	0
3049:	0	0	0	0	0	1	0	0
3057:	0	2	0	0	0	1	0	0
3065:	0	0	0	0	1	0	0	1
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	1	0
3089:	0	0	1	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	1	0	0	0	0	0
3113:	0	2	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	1
3129:	0	0	0	0	0	1	0	0
3137:	0	0	0	0	0	1	0	0
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	0	0	2	0	1
3161:	0	0	0	1	1	0	0	0
3169:	0	0	0	0	1	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	1	0	0	0	0	0
3217:	0	0	0	0	0	2	0	0
3225:	1	0	0	0	0	0	0	0
3233:	0	0	1	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	1	0	0	0	0	1	0	0
3265:	1	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	1	1	1	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	1	0	0	0	0	0
3305:	0	1	2	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	1	0	0	0	0	1
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	1	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	1	0	0	0	0
3369:	1	0	1	0	0	0	0	0
3377:	0	1	0	0	0	0	0	0
3385:	0	0	0	0	0	1	0	0

3393:	0	0	0	0	0	1	0	0

Sample Title: FEEBRIS1D-17.030-031

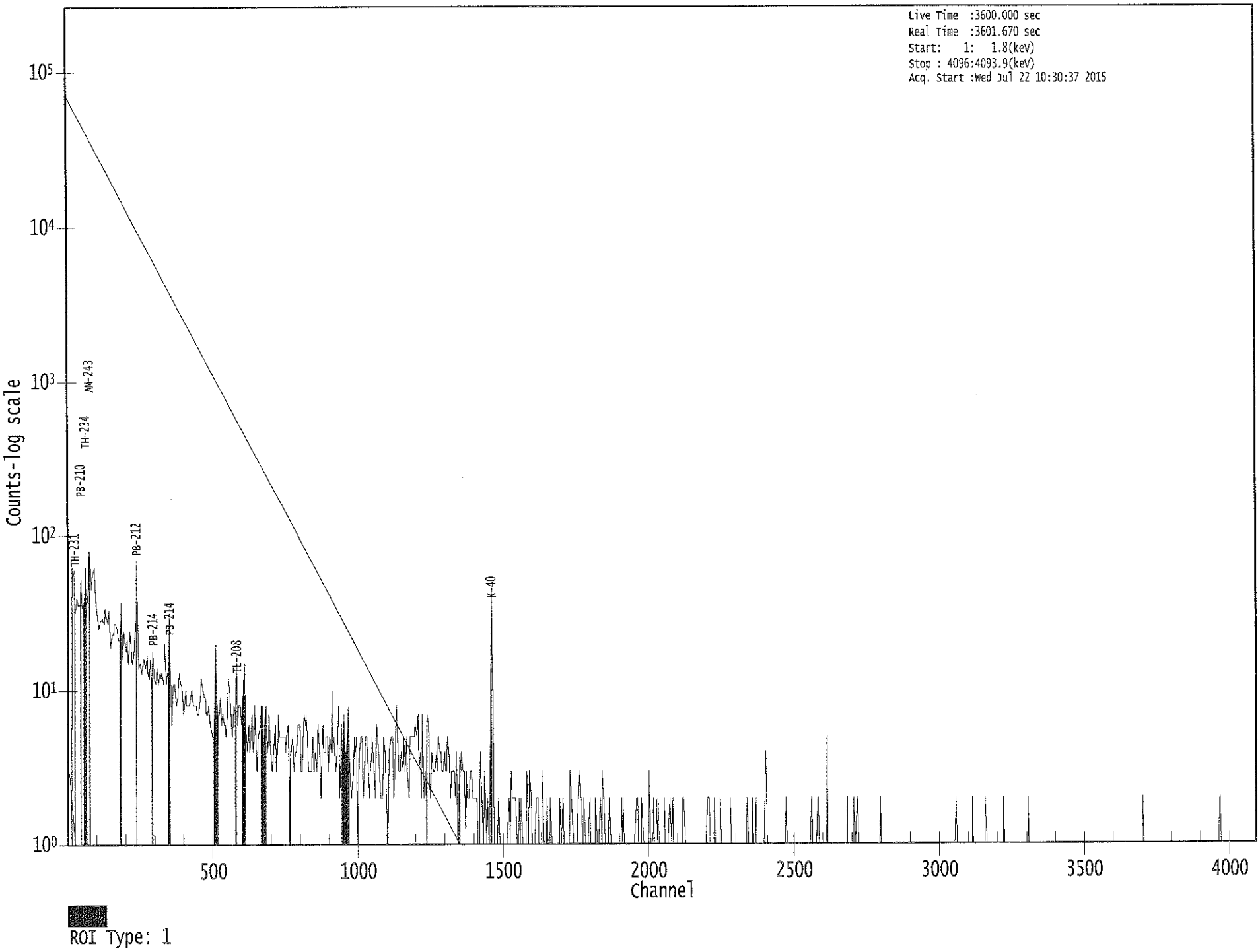
Channel								
3401:	0	0	0	0	0	0	0	1
3409:	0	0	0	1	0	0	0	0
3417:	0	0	0	1	0	0	0	0
3425:	0	0	0	0	0	1	0	0
3433:	0	0	1	0	0	0	0	0
3441:	1	1	0	0	0	0	0	0
3449:	0	1	1	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	1	0	0	1	0	0	0	0
3473:	0	0	0	0	1	0	0	0
3481:	0	0	0	0	0	0	0	1
3489:	0	0	0	0	0	0	1	0
3497:	0	0	0	1	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	1
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	0	0	0	0	0
3553:	0	1	1	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	1	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	1	0	0	1	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	1	0
3641:	0	0	0	0	0	0	0	1
3649:	0	0	0	0	0	0	0	0
3657:	0	1	0	0	0	0	0	0
3665:	0	0	1	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	1	1	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	1	0	0	2	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	1	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	1	0	0
3745:	0	0	0	0	0	0	1	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	1	0	1	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	1	0	0	0	1	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	1
3817:	0	0	0	0	0	0	0	0

3825:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-17.030-031

Channel							
3833:	0	1	0	0	0	0	0	0
3841:	0	0	0	0	0	1	1	0
3849:	0	0	1	0	0	0	1	1
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	1	0	0	0	0
3873:	0	0	1	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	1	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	1	0	0	0	0	1	0
3961:	0	1	0	0	0	0	2	0
3969:	0	0	1	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	1	0	0	0	0
4001:	0	0	1	0	0	0	0	0
4009:	0	0	1	0	0	0	0	0
4017:	0	0	0	1	0	1	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	1	0	0	0	0	0	0
4041:	0	0	0	0	0	1	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	1	1	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	1	0	0
4081:	0	0	0	0	1	0	0	0
4089:	0	0	0	0	1	0	0	1

0000024985.CNF



KB 7/22/15

Apex-Gamma

Analysis Report for 1506114-15
FEEBRIS1D-17.033-036

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-15
Sample Description	: FEEBRIS1D-17.033-036
Sample Type	: SOIL
Sample Size	: 4.739E+02 grams
Facility	: Countroom
Sample Taken On	: 6/22/2015 7:42:55AM
Acquisition Started	: 7/22/2015 1:44:41PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3603.9 seconds
Dead Time	: 0.11 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 25025

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 2:44:49PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.30	45.56	0.0000	0.00
2	64.72	63.98	0.0000	0.00
3	75.91	75.18	0.0000	0.00
4	85.69	84.96	0.0000	0.00
5	185.49	184.81	0.0000	0.00
6	239.82	239.15	0.0000	0.00
7	352.39	351.78	0.0000	0.00
8	361.58	360.97	0.0000	0.00
9	464.44	463.88	0.0000	0.00
10	510.11	509.57	0.0000	0.00
11	526.34	525.81	0.0000	0.00
12	583.94	583.43	0.0000	0.00
13	608.58	608.09	0.0000	0.00
14	692.64	692.18	0.0000	0.00
15	967.43	967.12	0.0000	0.00
16	980.59	980.29	0.0000	0.00
17	990.58	990.29	0.0000	0.00
18	1020.55	1020.27	0.0000	0.00
19	1213.29	1213.12	0.0000	0.00
20	1219.56	1219.39	0.0000	0.00
21	1277.68	1277.54	0.0000	0.00
22	1442.04	1442.00	0.0000	0.00
23	1460.05	1460.02	0.0000	0.00
24	1500.65	1500.65	0.0000	0.00
25	1659.67	1659.77	0.0000	0.00
26	1764.84	1765.00	0.0000	0.00
27	2544.57	2545.29	0.0000	0.00
28	2612.31	2613.08	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 2:44:49PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.30	40 -	52	45.56	1.14E+02	86.76	8.32E+02	2.34
M	2	64.72	56 -	80	63.98	1.71E+02	95.61	9.06E+02	4.55
m	3	75.91	56 -	80	75.18	3.60E+02	87.91	7.71E+02	4.56
M	4	85.69	81 -	96	84.96	9.10E+01	58.89	5.10E+02	4.57
	5	185.49	181 -	188	184.81	6.90E+01	45.78	3.02E+02	2.87
	6	239.82	233 -	246	239.15	2.19E+02	67.31	4.06E+02	2.60
	7	352.39	347 -	356	351.78	1.02E+02	38.56	1.51E+02	2.35
	8	361.58	357 -	364	360.97	3.10E+01	26.46	9.60E+01	4.37
	9	464.44	461 -	467	463.88	1.81E+01	20.31	5.98E+01	2.99
	10	510.11	502 -	516	509.57	9.17E+01	36.93	1.04E+02	3.81
	11	526.34	517 -	533	525.81	4.38E+01	32.66	8.43E+01	9.67
	12	583.94	579 -	589	583.43	3.28E+01	31.67	1.18E+02	1.98
	13	608.58	601 -	612	608.09	7.08E+01	31.69	9.04E+01	3.26
	14	692.64	689 -	694	692.18	1.10E+01	14.83	3.40E+01	1.57
	15	967.43	963 -	971	967.12	1.40E+01	13.15	1.80E+01	6.16
M	16	980.59	976 -	1001	980.29	1.76E+01	11.51	2.63E+00	3.15
m	17	990.58	976 -	1001	990.29	1.03E+01	11.34	9.51E+00	3.15
	18	1020.55	1006 -	1030	1020.27	3.36E+01	37.39	8.47E+01	19.10
	19	1213.29	1210 -	1215	1213.12	1.16E+01	10.82	1.28E+01	0.99
	20	1219.56	1217 -	1223	1219.39	1.78E+01	12.85	1.65E+01	3.83
	21	1277.68	1272 -	1285	1277.54	1.33E+01	17.55	2.94E+01	9.33
	22	1442.04	1439 -	1444	1442.00	5.00E+00	4.47	0.00E+00	2.98
	23	1460.05	1452 -	1464	1460.02	1.65E+02	26.80	7.94E+00	2.81
	24	1500.65	1497 -	1504	1500.65	7.90E+00	7.48	4.20E+00	1.52
	25	1659.67	1656 -	1662	1659.77	5.50E+00	7.78	7.00E+00	2.58
	26	1764.84	1760 -	1770	1765.00	1.90E+01	8.72	0.00E+00	4.37
	27	2544.57	2540 -	2548	2545.29	7.00E+00	5.29	0.00E+00	2.87
	28	2612.31	2609 -	2617	2613.08	1.20E+01	6.93	0.00E+00	1.96

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 2:44:49PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.30	40 -	52	1.14E+02	86.76	8.32E+02	6.91E+01
M	2	64.72	56 -	80	1.71E+02	95.61	9.06E+02	4.95E+01
m	3	75.91	56 -	80	3.60E+02	87.91	7.71E+02	4.57E+01
M	4	85.69	81 -	96	9.10E+01	58.89	5.10E+02	3.71E+01
	5	185.49	181 -	188	6.90E+01	45.78	3.02E+02	3.51E+01
	6	239.82	233 -	246	2.19E+02	67.31	4.06E+02	4.97E+01
	7	352.39	347 -	356	1.02E+02	38.56	1.51E+02	2.70E+01
	8	361.58	357 -	364	3.10E+01	26.46	9.60E+01	1.97E+01
	9	464.44	461 -	467	1.81E+01	20.31	5.98E+01	1.52E+01
	10	510.11	502 -	516	9.17E+01	36.93	1.04E+02	2.59E+01
	11	526.34	517 -	533	4.38E+01	32.66	8.43E+01	2.45E+01
	12	583.94	579 -	589	3.28E+01	31.67	1.18E+02	2.43E+01
	13	608.58	601 -	612	7.08E+01	31.69	9.04E+01	2.21E+01
	14	692.64	689 -	694	1.10E+01	14.83	3.40E+01	1.09E+01
	15	967.43	963 -	971	1.40E+01	13.15	1.80E+01	8.89E+00
M	16	980.59	976 -	1001	1.76E+01	11.51	2.63E+00	2.67E+00
m	17	990.58	976 -	1001	1.03E+01	11.34	9.51E+00	5.07E+00
	18	1020.55	1006 -	1030	3.36E+01	37.39	8.47E+01	2.92E+01
	19	1213.29	1210 -	1215	1.16E+01	10.82	1.28E+01	6.90E+00
	20	1219.56	1217 -	1223	1.78E+01	12.85	1.65E+01	7.98E+00
	21	1277.68	1272 -	1285	1.33E+01	17.55	2.94E+01	1.31E+01
	22	1442.04	1439 -	1444	5.00E+00	4.47	0.00E+00	0.00E+00
	23	1460.05	1452 -	1464	1.65E+02	26.80	7.94E+00	6.27E+00
	24	1500.65	1497 -	1504	7.90E+00	7.48	4.20E+00	4.06E+00
	25	1659.67	1656 -	1662	5.50E+00	7.78	7.00E+00	5.10E+00
	26	1764.84	1760 -	1770	1.90E+01	8.72	0.00E+00	0.00E+00
	27	2544.57	2540 -	2548	7.00E+00	5.29	0.00E+00	0.00E+00
	28	2612.31	2609 -	2617	1.20E+01	6.93	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 2:44:49PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.30	40 -	52	45.56	1.14E+02	86.76	8.32E+02	PB-210
M	2	64.72	56 -	80	63.98	1.71E+02	95.61	9.06E+02	.....
m	3	75.91	56 -	80	75.18	3.60E+02	87.91	7.71E+02	.....
M	4	85.69	81 -	96	84.96	9.10E+01	58.89	5.10E+02	EU-155 NP-237
	5	185.49	181 -	188	184.81	6.90E+01	45.78	3.02E+02	RA-226
	6	239.82	233 -	246	239.15	2.19E+02	67.31	4.06E+02	.....
	7	352.39	347 -	356	351.78	1.02E+02	38.56	1.51E+02	PB-214
	8	361.58	357 -	364	360.97	3.10E+01	26.46	9.60E+01	.....
	9	464.44	461 -	467	463.88	1.81E+01	20.31	5.98E+01	.....
	10	510.11	502 -	516	509.57	9.17E+01	36.93	1.04E+02	.....
	11	526.34	517 -	533	525.81	4.38E+01	32.66	8.43E+01	.....
	12	583.94	579 -	589	583.43	3.28E+01	31.67	1.18E+02	TL-208
	13	608.58	601 -	612	608.09	7.08E+01	31.69	9.04E+01	BI-214
	14	692.64	689 -	694	692.18	1.10E+01	14.83	3.40E+01	.....
	15	967.43	963 -	971	967.12	1.40E+01	13.15	1.80E+01	.....
M	16	980.59	976 -	1001	980.29	1.76E+01	11.51	2.63E+00	.....
m	17	990.58	976 -	1001	990.29	1.03E+01	11.34	9.51E+00	.....
	18	1020.55	1006 -	1030	1020.27	3.36E+01	37.39	8.47E+01	.....
	19	1213.29	1210 -	1215	1213.12	1.16E+01	10.82	1.28E+01	.....
	20	1219.56	1217 -	1223	1219.39	1.78E+01	12.85	1.65E+01	.....
	21	1277.68	1272 -	1285	1277.54	1.33E+01	17.55	2.94E+01	.....
	22	1442.04	1439 -	1444	1442.00	5.00E+00	4.47	0.00E+00	.....
	23	1460.05	1452 -	1464	1460.02	1.65E+02	26.80	7.94E+00	K-40
	24	1500.65	1497 -	1504	1500.65	7.90E+00	7.48	4.20E+00	.....
	25	1659.67	1656 -	1662	1659.77	5.50E+00	7.78	7.00E+00	.....
	26	1764.84	1760 -	1770	1765.00	1.90E+01	8.72	0.00E+00	BI-214
	27	2544.57	2540 -	2548	2545.29	7.00E+00	5.29	0.00E+00	.....
	28	2612.31	2609 -	2617	2613.08	1.20E+01	6.93	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 2:44:49PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.30	1.14E+02	86.76	2.63E-02	1.78E-03
M	2	64.72	1.71E+02	95.61	2.30E-02	1.75E-03
m	3	75.91	3.60E+02	87.91	2.13E-02	1.69E-03
M	4	85.69	9.10E+01	58.89	1.99E-02	1.64E-03
	5	185.49	6.90E+01	45.78	1.16E-02	1.15E-03
	6	239.82	2.19E+02	67.31	9.38E-03	9.83E-04
	7	352.39	1.02E+02	38.56	6.60E-03	7.80E-04
	8	361.58	3.10E+01	26.46	6.44E-03	7.69E-04
	9	464.44	1.81E+01	20.31	5.06E-03	6.29E-04
	10	510.11	9.17E+01	36.93	4.62E-03	5.62E-04
	11	526.34	4.38E+01	32.66	4.48E-03	5.39E-04
	12	583.94	3.28E+01	31.67	4.04E-03	4.54E-04
	13	608.58	7.08E+01	31.69	3.88E-03	4.18E-04
	14	692.64	1.10E+01	14.83	3.41E-03	3.23E-04
	15	967.43	1.40E+01	13.15	2.46E-03	1.99E-04
M	16	980.59	1.76E+01	11.51	2.43E-03	1.97E-04
m	17	990.58	1.03E+01	11.34	2.41E-03	1.96E-04
	18	1020.55	3.36E+01	37.39	2.34E-03	1.92E-04
	19	1213.29	1.16E+01	10.82	1.99E-03	1.83E-04
	20	1219.56	1.78E+01	12.85	1.98E-03	1.85E-04
	21	1277.68	1.33E+01	17.55	1.90E-03	2.01E-04
	22	1442.04	5.00E+00	4.47	1.70E-03	1.93E-04
	23	1460.05	1.65E+02	26.80	1.68E-03	1.89E-04
	24	1500.65	7.90E+00	7.48	1.64E-03	1.81E-04
	25	1659.67	5.50E+00	7.78	1.51E-03	1.48E-04
	26	1764.84	1.90E+01	8.72	1.43E-03	1.26E-04
	27	2544.57	7.00E+00	5.29	1.09E-03	1.11E-04
	28	2612.31	1.20E+01	6.93	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 2:44:49PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.30	1.14E+02	86.76	2.93E+01	8.52E+00	8.47E+01	8.72E+01
M	2	64.72	1.71E+02	95.61			1.71E+02	9.56E+01
m	3	75.91	3.60E+02	87.91			3.60E+02	8.79E+01
M	4	85.69	9.10E+01	58.89	2.81E+00	3.13E+00	8.81E+01	5.90E+01
	5	185.49	6.90E+01	45.78	2.05E+01	1.20E+01	4.85E+01	4.73E+01
	6	239.82	2.19E+02	67.31	4.80E+00	4.74E+00	2.14E+02	6.75E+01
	7	352.39	1.02E+02	38.56			1.02E+02	3.86E+01
	8	361.58	3.10E+01	26.46			3.10E+01	2.65E+01
	9	464.44	1.81E+01	20.31			1.81E+01	2.03E+01
	10	510.11	9.17E+01	36.93	4.72E+01	4.90E+00	4.45E+01	3.72E+01
	11	526.34	4.38E+01	32.66			4.38E+01	3.27E+01
	12	583.94	3.28E+01	31.67			3.28E+01	3.17E+01
	13	608.58	7.08E+01	31.69			7.08E+01	3.17E+01
	14	692.64	1.10E+01	14.83			1.10E+01	1.48E+01
	15	967.43	1.40E+01	13.15			1.40E+01	1.32E+01
M	16	980.59	1.76E+01	11.51			1.76E+01	1.15E+01
m	17	990.58	1.03E+01	11.34			1.03E+01	1.13E+01
	18	1020.55	3.36E+01	37.39			3.36E+01	3.74E+01
	19	1213.29	1.16E+01	10.82			1.16E+01	1.08E+01
	20	1219.56	1.78E+01	12.85			1.78E+01	1.29E+01
	21	1277.68	1.33E+01	17.55			1.33E+01	1.75E+01
	22	1442.04	5.00E+00	4.47			5.00E+00	4.47E+00
	23	1460.05	1.65E+02	26.80			1.65E+02	2.68E+01
	24	1500.65	7.90E+00	7.48			7.90E+00	7.48E+00
	25	1659.67	5.50E+00	7.78			5.50E+00	7.78E+00
	26	1764.84	1.90E+01	8.72			1.90E+01	8.72E+00
	27	2544.57	7.00E+00	5.29			7.00E+00	5.29E+00
	28	2612.31	1.20E+01	6.93			1.20E+01	6.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 2:44:49PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.30	1.14E+02	86.76	2.93E+01	8.52E+00	8.47E+01	8.72E+01
M	2	64.72	1.71E+02	95.61			1.71E+02	9.56E+01
m	3	75.91	3.60E+02	87.91			3.60E+02	8.79E+01
M	4	85.69	9.10E+01	58.89	2.81E+00	3.13E+00	8.81E+01	5.90E+01
	5	185.49	6.90E+01	45.78	2.05E+01	1.20E+01	4.85E+01	4.73E+01
	6	239.82	2.19E+02	67.31	4.80E+00	4.74E+00	2.14E+02	6.75E+01
	7	352.39	1.02E+02	38.56			1.02E+02	3.86E+01
	8	361.58	3.10E+01	26.46			3.10E+01	2.65E+01
	9	464.44	1.81E+01	20.31			1.81E+01	2.03E+01
	10	510.11	9.17E+01	36.93	4.72E+01	4.90E+00	4.45E+01	3.72E+01
	11	526.34	4.38E+01	32.66			4.38E+01	3.27E+01
	12	583.94	3.28E+01	31.67			3.28E+01	3.17E+01
	13	608.58	7.08E+01	31.69			7.08E+01	3.17E+01
	14	692.64	1.10E+01	14.83			1.10E+01	1.48E+01
	15	967.43	1.40E+01	13.15			1.40E+01	1.32E+01
M	16	980.59	1.76E+01	11.51			1.76E+01	1.15E+01
m	17	990.58	1.03E+01	11.34			1.03E+01	1.13E+01
	18	1020.55	3.36E+01	37.39			3.36E+01	3.74E+01
	19	1213.29	1.16E+01	10.82			1.16E+01	1.08E+01
	20	1219.56	1.78E+01	12.85			1.78E+01	1.29E+01
	21	1277.68	1.33E+01	17.55			1.33E+01	1.75E+01
	22	1442.04	5.00E+00	4.47			5.00E+00	4.47E+00
	23	1460.05	1.65E+02	26.80			1.65E+02	2.68E+01
	24	1500.65	7.90E+00	7.48			7.90E+00	7.48E+00
	25	1659.67	5.50E+00	7.78			5.50E+00	7.78E+00
	26	1764.84	1.90E+01	8.72			1.90E+01	8.72E+00
	27	2544.57	7.00E+00	5.29			7.00E+00	5.29E+00
	28	2612.31	1.20E+01	6.93			1.20E+01	6.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.911	1460.81	*	10.67	1.45E+01	2.89E+00
EU-155	0.320	86.50	*	30.90	2.30E-01	1.55E-01
		105.30		20.70		

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-210	0.994	46.50	*	4.25	1.20E+00	1.24E+00
BI-214	0.629	609.31	*	46.30	6.24E-01	2.87E-01
		1120.29		15.10		
		1764.49	*	15.80	1.33E+00	6.20E-01
		2204.22		4.98		
PB-214	0.402	295.21		19.19		
		351.92	*	37.19	6.61E-01	2.61E-01
RA-226	0.920	186.21	*	3.28	2.01E+00	4.17E+00
NP-237	0.900	86.50	*	12.60	5.56E-01	3.75E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 2:44:49PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	2	64.72	4.74758E-02	27.97		
m	3	75.91	1.00041E-01	12.20		
	6	239.82	5.95003E-02	15.75		
	8	361.58	8.61111E-03	42.67		
	9	464.44	5.03472E-03	56.03		
	10	510.11	1.23652E-02	41.84		
	11	526.34	1.21802E-02	37.24		
	12	583.94	9.10628E-03	48.31	Tol.	TL-208
	14	692.64	3.05556E-03	67.42		
	15	967.43	3.88889E-03	46.97		
M	16	980.59	4.88613E-03	32.72		
m	17	990.58	2.87421E-03	54.78		
	18	1020.55	9.34210E-03	55.58		
	19	1213.29	3.22531E-03	46.58		
	20	1219.56	4.93056E-03	36.21		
	21	1277.68	3.69048E-03	66.05		
	22	1442.04	1.38889E-03	44.72		
	24	1500.65	2.19444E-03	47.36		
	25	1659.67	1.52778E-03	70.71		
	27	2544.57	1.94444E-03	37.80		

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
28	2612.31	3.33333E-03	28.87		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.91	1460.81	*	10.67	1.45E+01	2.89E+00
EU-155	0.32	86.50	*	30.90	2.30E-01	1.55E-01
		105.30		20.70		
PB-210	0.99	46.50	*	4.25	1.20E+00	1.24E+00
BI-214	0.62	609.31	*	46.30	6.24E-01	2.87E-01
		1120.29		15.10		
		1764.49	*	15.80	1.33E+00	6.20E-01
		2204.22		4.98		
PB-214	0.40	295.21		19.19		
		351.92	*	37.19	6.61E-01	2.61E-01
RA-226	0.92	186.21	*	3.28	2.01E+00	4.17E+00
NP-237	0.90	86.50	*	12.60	5.56E-01	3.75E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.911	1.45E+01	2.89E+00	
?	EU-155	0.320	2.30E-01	1.55E-01	
	PB-210	0.994	1.20E+00	1.24E+00	
	BI-214	0.629	7.49E-01	2.61E-01	
	PB-214	0.402	6.61E-01	2.61E-01	
	RA-226	0.920	2.01E+00	4.17E+00	
?	NP-237	0.900	5.56E-01	3.75E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 2:44:49PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	2	64.72	4.74758E-02	27.97		
m	3	75.91	1.00041E-01	12.20		
	6	239.82	5.95003E-02	15.75		
	8	361.58	8.61111E-03	42.67		
	9	464.44	5.03472E-03	56.03		
	10	510.11	1.23652E-02	41.84		
	11	526.34	1.21802E-02	37.24		
	12	583.94	9.10628E-03	48.31	Tol.	TL-208
	14	692.64	3.05556E-03	67.42		
	15	967.43	3.88889E-03	46.97		
M	16	980.59	4.88613E-03	32.72		
m	17	990.58	2.87421E-03	54.78		
	18	1020.55	9.34210E-03	55.58		
	19	1213.29	3.22531E-03	46.58		
	20	1219.56	4.93056E-03	36.21		
	21	1277.68	3.69048E-03	66.05		
	22	1442.04	1.38889E-03	44.72		
	24	1500.65	2.19444E-03	47.36		
	25	1659.67	1.52778E-03	70.71		
	27	2544.57	1.94444E-03	37.80		
	28	2612.31	3.33333E-03	28.87		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	1.02E+00	1.90E+00	1.90E+00
+		NA-22	1274.54		99.94	2.13E-03	1.86E-01	1.86E-01
+		NA-24	1368.53		99.99	4.51E+12	4.29E+13	5.89E+13
			2754.09		99.86	-3.88E+12		4.29E+13
+		AL-26	1808.65		99.76	-1.51E-02	1.59E-01	1.59E-01
+		K-40	1460.81	*	10.67	1.45E+01	1.34E+00	1.34E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	-6.31E-02	7.74E-02	7.74E-02
			78.34		96.00	1.09E-01		9.19E-02
+		SC-46	889.25		99.98	2.75E-02	1.94E-01	1.94E-01
			1120.51		99.99	9.87E-02		3.12E-01
+		V-48	983.52		99.98	1.18E-01	6.35E-01	6.64E-01
			1312.10		97.50	-3.09E-01		6.35E-01
+		CR-51	320.08		9.83	2.80E-01	2.24E+00	2.24E+00
+		MN-54	834.83		99.97	1.82E-02	1.87E-01	1.87E-01
+		CO-56	846.75		99.96	7.38E-03	1.92E-01	1.92E-01
			1037.75		14.03	1.12E+00		1.75E+00
			1238.25		67.00	3.11E-02		4.65E-01
			1771.40		15.51	0.00E+00		1.22E+00
			2598.48		16.90	-3.79E-02		8.37E-01
+		CO-57	122.06		85.51	-8.61E-03	9.68E-02	9.68E-02
			136.48		10.60	-5.35E-01		7.98E-01
+		CO-58	810.76		99.40	-4.12E-02	2.22E-01	2.22E-01
+		FE-59	1099.22		56.50	5.14E-02	5.04E-01	5.04E-01
			1291.56		43.20	2.19E-01		7.66E-01
+		CO-60	1173.22		100.00	3.05E-02	1.87E-01	2.26E-01
			1332.49		100.00	3.51E-02		1.87E-01
+		ZN-65	1115.52		50.75	1.37E-01	5.02E-01	5.02E-01
+		GA-67	93.31		35.70	1.10E+02	1.37E+02	1.37E+02
			208.95		2.24	1.02E+03		2.70E+03
			300.22		16.00	-2.77E+02		4.20E+02
+		SE-75	121.11		16.70	-1.97E-01	1.57E-01	5.29E-01
			136.00		59.20	-9.17E-02		1.57E-01
			264.65		59.80	-9.92E-02		1.83E-01
			279.53		25.20	2.64E-01		5.14E-01
			400.65		11.40	-2.83E-01		1.20E+00
+		RB-82	776.52		13.00	1.93E-01	2.44E+00	2.44E+00
+		RB-83	520.41		46.00	-4.34E-02	3.15E-01	3.15E-01
			529.64		30.30	1.67E-01		5.24E-01
			552.65		16.40	1.03E-01		1.13E+00
+		KR-85	513.99		0.43	3.61E+01	3.98E+01	3.98E+01
+		SR-85	513.99		99.27	2.17E-01	2.39E-01	2.39E-01
+		Y-88	898.02		93.40	-4.17E-02	1.68E-01	2.17E-01
			1836.01		99.38	-3.73E-02		1.68E-01
+		NB-93M	16.57		9.43	9.75E-01	4.59E-01	4.59E-01
+		NB-94	702.63		100.00	1.19E-02	1.20E-01	1.55E-01
			871.10		100.00	-9.37E-02		1.20E-01

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	-2.51E-02	2.93E-01	2.93E-01
+	NB-95M	235.69	25.00	-2.82E+00	1.82E+02	1.82E+02
+	ZR-95	724.18	43.70	2.07E-01	4.03E-01	5.22E-01
		756.72	55.30	7.17E-02		4.03E-01
+	MO-99	181.06	6.20	3.82E+02	2.61E+03	3.21E+03
		739.58	12.80	1.61E+03		2.61E+03
		778.00	4.50	-4.50E+03		5.46E+03
+	RU-103	497.08	89.00	-7.85E-02	2.28E-01	2.28E-01
+	RU-106	621.84	9.80	-5.36E-01	1.27E+00	1.27E+00
+	AG-108M	433.93	89.90	-3.35E-02	1.33E-01	1.33E-01
		614.37	90.40	-5.65E-03		1.70E-01
		722.95	90.50	4.88E-02		1.80E-01
+	CD-109	88.03	3.72	2.71E-01	2.21E+00	2.21E+00
+	AG-110M	657.75	93.14	-2.54E-02	1.56E-01	1.56E-01
		677.61	10.53	-2.34E-01		1.40E+00
		706.67	16.46	-5.69E-02		9.93E-01
		763.93	21.98	-1.05E-01		7.64E-01
		884.67	71.63	-1.28E-01		2.24E-01
		1384.27	23.94	-2.41E-01		6.47E-01
+	CD-113M	263.70	0.02	-1.71E+02	4.02E+02	4.02E+02
+	SN-113	255.12	1.93	-1.75E+00	2.10E-01	5.59E+00
		391.69	64.90	-4.73E-02		2.10E-01
+	TE123M	159.00	84.10	-1.50E-02	1.19E-01	1.19E-01
+	SB-124	602.71	97.87	-5.85E-03	2.01E-01	2.01E-01
		645.85	7.26	2.85E-01		2.49E+00
		722.78	11.10	-3.98E-01		1.96E+00
		1691.02	49.00	-3.08E-02		2.86E-01
+	I-125	35.49	6.49	-1.14E-01	1.01E+00	1.01E+00
+	SB-125	176.33	6.89	-1.63E-01	4.19E-01	1.34E+00
		427.89	29.33	-3.78E-02		4.19E-01
		463.38	10.35	-6.67E-02		1.19E+00
		600.56	17.80	-7.65E-02		8.45E-01
		635.90	11.32	8.50E-02		1.25E+00
+	SB-126	414.70	83.30	-2.76E-01	7.19E-01	7.19E-01
		666.33	99.60	2.63E-01		8.59E-01
		695.00	99.60	-3.38E-01		7.97E-01
		720.50	53.80	-3.76E-01		1.47E+00
+	SN-126	87.57	37.00	2.60E-02	2.12E-01	2.12E-01
+	SB-127	473.00	25.00	-6.78E+01	9.51E+01	1.01E+02
		685.20	35.70	1.70E+01		9.51E+01
		783.80	14.70	-4.82E+01		2.23E+02
+	I-129	29.78	57.00	2.36E-02	8.01E-02	8.01E-02
		33.60	13.20	-8.09E-02		3.42E-01
		39.58	7.52	-1.22E-01		6.24E-01
+	I-131	284.30	6.05	-4.97E-01	1.93E+00	2.30E+01
		364.48	81.20	8.54E-03		1.93E+00
		636.97	7.26	-2.40E-01		2.57E+01
		722.89	1.80	-2.36E+01		1.16E+02

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	2.26E+02	7.17E+01	2.77E+02
			228.16	88.00	-1.91E+00		7.17E+01
+		BA-133	81.00	33.00	-7.24E-02	2.47E-01	2.51E-01
			302.84	17.80	-1.55E-01		6.03E-01
			356.01	60.00	2.28E-01		2.47E-01
+		I-133	529.87	86.30	1.50E+09	4.72E+09	4.72E+09
+		CS-134	563.23	8.38	-4.78E-01	1.79E-01	1.65E+00
			569.32	15.43	-8.36E-02		9.32E-01
			604.70	97.60	-8.14E-02		1.79E-01
			795.84	85.40	5.13E-02		1.96E-01
			801.93	8.73	1.26E-01		1.83E+00
+		CS-135	268.24	16.00	-3.86E-02	5.90E-01	5.90E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	4.32E-01	8.16E-01	5.45E+00
			163.89	4.61	-2.40E-01		9.09E+00
			176.55	13.56	-4.00E-01		3.28E+00
			273.65	12.66	9.63E-01		3.98E+00
			340.57	48.50	6.67E-01		1.19E+00
			818.50	99.70	-5.27E-02		8.16E-01
			1048.07	79.60	5.13E-01		1.21E+00
			1235.34	19.70	3.20E+00		6.35E+00
+		CS-137	661.65	85.12	8.82E-02	1.81E-01	1.81E-01
+		LA-138	788.74	34.00	6.04E-02	1.84E-01	4.87E-01
			1435.80	66.00	4.68E-03		1.84E-01
+		CE-139	165.85	80.35	-2.62E-02	1.25E-01	1.25E-01
+		BA-140	162.64	6.70	-6.31E-02	2.47E+00	6.50E+00
			304.84	4.50	1.54E+00		1.22E+01
			423.70	3.20	-7.61E+00		1.87E+01
			437.55	2.00	-7.01E+00		3.09E+01
			537.32	25.00	-4.23E-01		2.47E+00
+		LA-140	328.77	20.50	-4.32E-01	9.14E-01	2.57E+00
			487.03	45.50	-3.83E-01		1.45E+00
			815.85	23.50	1.87E-01		3.71E+00
			1596.49	95.49	1.22E-01		9.14E-01
+		CE-141	145.44	48.40	6.65E-02	3.38E-01	3.38E-01
+		CE-143	57.36	11.80	1.41E+05	1.17E+06	2.10E+06
			293.26	42.00	7.36E+05		1.17E+06
			664.55	5.20	-9.66E+05		1.26E+07
+		CE-144	133.54	10.80	-2.88E-01	7.82E-01	7.82E-01
+		PM-144	476.78	42.00	1.21E-01	1.31E-01	3.28E-01
			618.01	98.60	-8.10E-03		1.31E-01
			696.49	99.49	-7.03E-02		1.56E-01
+		PM-145	36.85	21.70	-1.80E-02	1.18E-01	2.13E-01
			37.36	39.70	-1.05E-02		1.18E-01
			42.30	15.10	1.14E-02		3.66E-01
			72.40	2.31	2.39E+00		3.69E+00
+		PM-146	453.90	39.94	-1.00E-01	2.93E-01	2.93E-01

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90		14.01	-1.24E-01	2.93E-01	1.10E+00
		747.13		13.10	-3.99E-01		1.04E+00
+	ND-147	91.11		28.90	1.36E+00	1.90E+00	1.90E+00
		531.02		13.10	-1.04E+00		6.25E+00
+	PM-149	285.90		3.10	9.54E+03	4.39E+04	4.39E+04
+	EU-152	121.78		20.50	-3.33E-02	3.75E-01	3.75E-01
		244.69		5.40	-5.79E-02		2.17E+00
		344.27		19.13	-1.92E-01		5.49E-01
		778.89		9.20	-1.08E+00		1.31E+00
		964.01		10.40	2.23E-01		1.61E+00
		1085.78		7.22	-9.72E-01		2.29E+00
		1112.02		9.60	-6.13E-01		2.06E+00
		1407.95		14.94	2.55E-01		1.30E+00
+	GD-153	97.43		31.30	-3.78E-03	2.53E-01	2.53E-01
		103.18		22.20	-2.80E-02		3.46E-01
+	EU-154	123.07		40.50	2.38E-02	1.96E-01	1.96E-01
		723.30		19.70	2.26E-01		8.30E-01
		873.19		11.50	-5.36E-01		1.17E+00
		996.32		10.30	5.11E-01		1.79E+00
		1004.76		17.90	-1.25E-02		9.01E-01
		1274.45		35.50	5.90E-03		5.17E-01
+	EU-155	86.50	*	30.90	2.30E-01	3.53E-01	4.17E-01
		105.30		20.70	7.22E-02		3.53E-01
+	EU-156	811.77		10.40	-1.35E-01	6.44E+00	6.44E+00
		1153.47		7.20	4.40E+00		1.15E+01
		1230.71		8.90	-1.04E+00		1.02E+01
+	HO-166M	184.41		72.60	6.94E-02	1.39E-01	1.39E-01
		280.45		29.60	2.06E-01		3.70E-01
		410.94		11.10	3.05E-01		1.06E+00
		711.69		54.10	3.56E-04		2.59E-01
+	TM-171	66.72		0.14	1.51E+01	5.43E+01	5.43E+01
+	HF-172	81.75		4.52	-2.66E+00	7.60E-01	1.79E+00
		125.81		11.30	5.10E-01		7.60E-01
+	LU-172	181.53		20.60	8.17E-01	6.88E+00	1.11E+01
		810.06		16.63	-4.20E+00		2.25E+01
		912.12		15.25	1.73E+01		2.93E+01
		1093.66		62.50	3.53E+00		6.88E+00
+	LU-173	100.72		5.24	-3.58E-01	4.83E-01	1.38E+00
		272.11		21.20	-8.08E-02		4.83E-01
+	HF-175	343.40		84.00	-4.04E-02	1.73E-01	1.73E-01
+	LU-176	88.34		13.30	3.19E-01	1.05E-01	6.04E-01
		201.83		86.00	-5.03E-02		1.05E-01
		306.78		94.00	-2.06E-03		1.12E-01
+	TA-182	67.75		41.20	-1.73E-01	2.13E-01	2.13E-01
		1121.30		34.90	3.92E-01		8.36E-01
		1189.05		16.23	-3.61E-01		1.47E+00
		1221.41		26.98	5.94E-03		1.03E+00
		1231.02		11.44	-2.45E-01		2.39E+00
+	IR-192	308.46		29.68	-1.45E-01	3.01E-01	4.49E-01

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	-3.44E-02	3.01E-01	3.01E-01
+	HG-203	279.19		77.30	1.13E-01	2.20E-01	2.20E-01
+	BI-207	569.67		97.72	-1.29E-02	1.43E-01	1.43E-01
		1063.62		74.90	1.65E-01		2.77E-01
+	TL-208	583.14		30.22	4.46E-01	5.77E-01	5.77E-01
		860.37		4.48	1.83E+00		3.77E+00
		2614.66		35.85	0.00E+00		7.76E-01
+	BI-210M	262.00		45.00	5.46E-02	2.13E-01	2.13E-01
		300.00		23.00	1.31E-01		5.08E-01
+	PB-210	46.50	*	4.25	1.20E+00	2.03E+00	2.03E+00
+	PB-211	404.84		2.90	3.31E-01	4.14E+00	4.14E+00
		831.96		2.90	2.35E+00		6.43E+00
+	BI-212	727.17		11.80	5.51E-01	1.38E+00	1.38E+00
		1620.62		2.75	3.37E+00		6.23E+00
+	PB-212	238.63		44.60	5.44E-01	3.25E-01	3.25E-01
		300.09		3.41	8.86E-01		3.43E+00
+	BI-214	609.31	*	46.30	6.24E-01	1.89E-01	4.13E-01
		1120.29		15.10	5.09E-01		1.61E+00
		1764.49	*	15.80	1.33E+00		1.89E-01
		2204.22		4.98	1.17E+00		3.72E+00
+	PB-214	295.21		19.19	2.89E-01	3.66E-01	6.13E-01
		351.92	*	37.19	6.61E-01		3.66E-01
+	RN-219	401.80		6.50	-7.25E-01	1.75E+00	1.75E+00
+	RA-223	323.87		3.88	5.82E-01	2.75E+00	2.75E+00
+	RA-224	240.98		3.95	7.57E+00	3.74E+00	3.74E+00
+	RA-225	40.00		31.00	-1.23E-01	6.27E-01	6.27E-01
+	RA-226	186.21	*	3.28	2.01E+00	3.20E+00	3.20E+00
+	TH-227	50.10		8.40	5.63E-01	6.93E-01	6.93E-01
		236.00		11.50	-1.83E-02		1.18E+00
		256.20		6.30	6.81E-02		1.50E+00
+	AC-228	338.32		11.40	8.62E-01	6.96E-01	1.03E+00
		911.07		27.70	4.07E-01		6.96E-01
		969.11		16.60	4.53E-02		9.32E-01
+	TH-230	48.44		16.90	2.83E-01	3.45E-01	3.45E-01
		62.85		4.60	1.37E+00		1.53E+00
		67.67		0.37	-1.61E+01		1.97E+01
+	PA-231	283.67		1.60	6.87E-01	4.64E+00	6.50E+00
		302.67		2.30	-1.19E+00		4.64E+00
+	TH-231	25.64		14.70	-1.86E-01	3.07E-01	3.07E-01
		84.21		6.40	-2.78E+00		1.14E+00
+	PA-233	311.98		38.60	7.69E-02	5.68E-01	5.68E-01
+	PA-234	131.20		20.40	-8.25E-03	3.94E-01	3.94E-01
		733.99		8.80	-1.14E+00		1.62E+00
		946.00		12.00	-2.62E-01		1.21E+00
+	PA-234M	1001.03		0.92	-2.41E-01	1.77E+01	1.77E+01
+	TH-234	63.29		3.80	2.24E+00	1.90E+00	1.90E+00
+	U-235	143.76		10.50	6.28E-01	8.34E-01	8.34E-01

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35		4.70	-4.76E-02	8.34E-01	1.81E+00
		205.31		4.70	5.04E-01		2.04E+00
+	NP-237	86.50	*	12.60	5.56E-01	1.01E+00	1.01E+00
+	NP-239	106.10		22.70	4.84E+02	2.37E+03	2.37E+03
		228.18		10.70	-2.60E+03		6.77E+03
		277.60		14.10	-9.12E+02		5.42E+03
+	AM-241	59.54		35.90	3.58E-02	1.80E-01	1.80E-01
+	AM-243	74.67		66.00	3.31E-01	1.37E-01	1.37E-01
+	CM-243	209.75		3.29	-9.57E-01	7.39E-01	2.90E+00
		228.14		10.60	-2.54E-02		9.53E-01
		277.60		14.00	-1.24E-01		7.39E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.90E+00	1.90E+00	1.02E+00	8.90E-01
	NA-22	1274.54		99.94	1.86E-01	1.86E-01	2.13E-03	8.17E-02
	NA-24	1368.53		99.99	5.89E+13	4.29E+13	4.51E+12	2.49E+13
		2754.09		99.86	4.29E+13		-3.88E+12	1.35E+13
	AL-26	1808.65		99.76	1.59E-01	1.59E-01	-1.51E-02	6.44E-02
+	K-40	1460.81	*	10.67	1.34E+00	1.34E+00	1.45E+01	5.53E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.74E-02	7.74E-02	-6.31E-02	3.77E-02
		78.34		96.00	9.19E-02		1.09E-01	4.49E-02
	SC-46	889.25		99.98	1.94E-01	1.94E-01	2.75E-02	8.68E-02
		1120.51		99.99	3.12E-01		9.87E-02	1.43E-01
	V-48	983.52		99.98	6.64E-01	6.35E-01	1.18E-01	2.99E-01

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
V-48	1312.10	97.50	6.35E-01	6.35E-01	-3.09E-01	2.74E-01
CR-51	320.08	9.83	2.24E+00	2.24E+00	2.80E-01	1.06E+00
MN-54	834.83	99.97	1.87E-01	1.87E-01	1.82E-02	8.55E-02
CO-56	846.75	99.96	1.92E-01	1.92E-01	7.38E-03	8.58E-02
	1037.75	14.03	1.75E+00		1.12E+00	7.87E-01
	1238.25	67.00	4.65E-01		3.11E-02	2.11E-01
	1771.40	15.51	1.22E+00		0.00E+00	4.85E-01
	2598.48	16.90	8.37E-01		-3.79E-02	2.64E-01
CO-57	122.06	85.51	9.68E-02	9.68E-02	-8.61E-03	4.67E-02
	136.48	10.60	7.98E-01		-5.35E-01	3.84E-01
CO-58	810.76	99.40	2.22E-01	2.22E-01	-4.12E-02	1.01E-01
FE-59	1099.22	56.50	5.04E-01	5.04E-01	5.14E-02	2.24E-01
	1291.56	43.20	7.66E-01		2.19E-01	3.41E-01
CO-60	1173.22	100.00	2.26E-01	1.87E-01	3.05E-02	1.03E-01
	1332.49	100.00	1.87E-01		3.51E-02	8.15E-02
ZN-65	1115.52	50.75	5.02E-01	5.02E-01	1.37E-01	2.30E-01
GA-67	93.31	35.70	1.37E+02	1.37E+02	1.10E+02	6.67E+01
	208.95	2.24	2.70E+03		1.02E+03	1.30E+03
	300.22	16.00	4.20E+02		-2.77E+02	1.99E+02
SE-75	121.11	16.70	5.29E-01	1.57E-01	-1.97E-01	2.55E-01
	136.00	59.20	1.57E-01		-9.17E-02	7.55E-02
	264.65	59.80	1.83E-01		-9.92E-02	8.63E-02
	279.53	25.20	5.14E-01		2.64E-01	2.45E-01
	400.65	11.40	1.20E+00		-2.83E-01	5.63E-01
RB-82	776.52	13.00	2.44E+00	2.44E+00	1.93E-01	1.10E+00
RB-83	520.41	46.00	3.15E-01	3.15E-01	-4.34E-02	1.45E-01
	529.64	30.30	5.24E-01		1.67E-01	2.42E-01
	552.65	16.40	1.13E+00		1.03E-01	5.25E-01
KR-85	513.99	0.43	3.98E+01	3.98E+01	3.61E+01	1.88E+01
SR-85	513.99	99.27	2.39E-01	2.39E-01	2.17E-01	1.13E-01
Y-88	898.02	93.40	2.17E-01	1.68E-01	-4.17E-02	9.77E-02
	1836.01	99.38	1.68E-01		-3.73E-02	6.50E-02
NB-93M	16.57	9.43	4.59E-01	4.59E-01	9.75E-01	2.22E-01
NB-94	702.63	100.00	1.55E-01	1.20E-01	1.19E-02	7.09E-02
	871.10	100.00	1.20E-01		-9.37E-02	5.23E-02
NB-95	765.79	99.81	2.93E-01	2.93E-01	-2.51E-02	1.34E-01
NB-95M	235.69	25.00	1.82E+02	1.82E+02	-2.82E+00	8.79E+01
ZR-95	724.18	43.70	5.22E-01	4.03E-01	2.07E-01	2.40E-01
	756.72	55.30	4.03E-01		7.17E-02	1.85E-01
MO-99	181.06	6.20	3.21E+03	2.61E+03	3.82E+02	1.55E+03
	739.58	12.80	2.61E+03		1.61E+03	1.20E+03
	778.00	4.50	5.46E+03		-4.50E+03	2.41E+03
RU-103	497.08	89.00	2.28E-01	2.28E-01	-7.85E-02	1.05E-01
RU-106	621.84	9.80	1.27E+00	1.27E+00	-5.36E-01	5.74E-01
AG-108M	433.93	89.90	1.33E-01	1.33E-01	-3.35E-02	6.21E-02
	614.37	90.40	1.70E-01		-5.65E-03	7.87E-02
	722.95	90.50	1.80E-01		4.88E-02	8.26E-02
CD-109	88.03	3.72	2.21E+00	2.21E+00	2.71E-01	1.08E+00
AG-110M	657.75	93.14	1.56E-01	1.56E-01	-2.54E-02	7.09E-02
	677.61	10.53	1.40E+00		-2.34E-01	6.36E-01
	706.67	16.46	9.93E-01		-5.69E-02	4.54E-01
	763.93	21.98	7.64E-01		-1.05E-01	3.48E-01
	884.67	71.63	2.24E-01		-1.28E-01	9.99E-02

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	1384.27	23.94	6.47E-01	1.56E-01	-2.41E-01	2.68E-01
CD-113M	263.70	0.02	4.02E+02	4.02E+02	-1.71E+02	1.90E+02
SN-113	255.12	1.93	5.59E+00	2.10E-01	-1.75E+00	2.64E+00
	391.69	64.90	2.10E-01		-4.73E-02	9.82E-02
TE123M	159.00	84.10	1.19E-01	1.19E-01	-1.50E-02	5.70E-02
SB-124	602.71	97.87	2.01E-01	2.01E-01	-5.85E-03	9.24E-02
	645.85	7.26	2.49E+00		2.85E-01	1.13E+00
	722.78	11.10	1.96E+00		-3.98E-01	8.97E-01
	1691.02	49.00	2.86E-01		-3.08E-02	1.01E-01
I-125	35.49	6.49	1.01E+00	1.01E+00	-1.14E-01	4.88E-01
SB-125	176.33	6.89	1.34E+00	4.19E-01	-1.63E-01	6.41E-01
	427.89	29.33	4.19E-01		-3.78E-02	1.96E-01
	463.38	10.35	1.19E+00		-6.67E-02	5.55E-01
	600.56	17.80	8.45E-01		-7.65E-02	3.91E-01
	635.90	11.32	1.25E+00		8.50E-02	5.73E-01
SB-126	414.70	83.30	7.19E-01	7.19E-01	-2.76E-01	3.35E-01
	666.33	99.60	8.59E-01		2.63E-01	3.97E-01
	695.00	99.60	7.97E-01		-3.38E-01	3.64E-01
	720.50	53.80	1.47E+00		-3.76E-01	6.70E-01
SN-126	87.57	37.00	2.12E-01	2.12E-01	2.60E-02	1.03E-01
SB-127	473.00	25.00	1.01E+02	9.51E+01	-6.78E+01	4.63E+01
	685.20	35.70	9.51E+01		1.70E+01	4.35E+01
	783.80	14.70	2.23E+02		-4.82E+01	1.00E+02
I-129	29.78	57.00	8.01E-02	8.01E-02	2.36E-02	3.88E-02
	33.60	13.20	3.42E-01		-8.09E-02	1.66E-01
	39.58	7.52	6.24E-01		-1.22E-01	3.02E-01
I-131	284.30	6.05	2.30E+01	1.93E+00	-4.97E-01	1.09E+01
	364.48	81.20	1.93E+00		8.54E-03	9.11E-01
	636.97	7.26	2.57E+01		-2.40E-01	1.18E+01
	722.89	1.80	1.16E+02		-2.36E+01	5.31E+01
TE-132	49.72	13.10	2.77E+02	7.17E+01	2.26E+02	1.35E+02
	228.16	88.00	7.17E+01		-1.91E+00	3.43E+01
BA-133	81.00	33.00	2.51E-01	2.47E-01	-7.24E-02	1.22E-01
	302.84	17.80	6.03E-01		-1.55E-01	2.86E-01
	356.01	60.00	2.47E-01		2.28E-01	1.18E-01
I-133	529.87	86.30	4.72E+09	4.72E+09	1.50E+09	2.18E+09
CS-134	563.23	8.38	1.65E+00	1.79E-01	-4.78E-01	7.63E-01
	569.32	15.43	9.32E-01		-8.36E-02	4.31E-01
	604.70	97.60	1.79E-01		-8.14E-02	8.38E-02
	795.84	85.40	1.96E-01		5.13E-02	8.94E-02
	801.93	8.73	1.83E+00		1.26E-01	8.31E-01
CS-135	268.24	16.00	5.90E-01	5.90E-01	-3.86E-02	2.79E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	5.45E+00	8.16E-01	4.32E-01	2.62E+00
	163.89	4.61	9.09E+00		-2.40E-01	4.37E+00
	176.55	13.56	3.28E+00		-4.00E-01	1.57E+00
	273.65	12.66	3.98E+00		9.63E-01	1.89E+00
	340.57	48.50	1.19E+00		6.67E-01	5.63E-01
	818.50	99.70	8.16E-01		-5.27E-02	3.72E-01
	1048.07	79.60	1.21E+00		5.13E-01	5.47E-01
	1235.34	19.70	6.35E+00		3.20E+00	2.90E+00

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-137	661.65		85.12	1.81E-01	1.81E-01	8.82E-02	8.32E-02
	LA-138	788.74		34.00	4.87E-01	1.84E-01	6.04E-02	2.22E-01
		1435.80		66.00	1.84E-01		4.68E-03	7.30E-02
	CE-139	165.85		80.35	1.25E-01	1.25E-01	-2.62E-02	6.01E-02
	BA-140	162.64		6.70	6.50E+00	2.47E+00	-6.31E-02	3.12E+00
		304.84		4.50	1.22E+01		1.54E+00	5.76E+00
		423.70		3.20	1.87E+01		-7.61E+00	8.72E+00
		437.55		2.00	3.09E+01		-7.01E+00	1.44E+01
		537.32		25.00	2.47E+00		-4.23E-01	1.14E+00
	LA-140	328.77		20.50	2.57E+00	9.14E-01	-4.32E-01	1.21E+00
		487.03		45.50	1.45E+00		-3.83E-01	6.75E-01
		815.85		23.50	3.71E+00		1.87E-01	1.69E+00
		1596.49		95.49	9.14E-01		1.22E-01	3.83E-01
	CE-141	145.44		48.40	3.38E-01	3.38E-01	6.65E-02	1.63E-01
	CE-143	57.36		11.80	2.10E+06	1.17E+06	1.41E+05	1.02E+06
		293.26		42.00	1.17E+06		7.36E+05	5.58E+05
		664.55		5.20	1.26E+07		-9.66E+05	5.79E+06
	CE-144	133.54		10.80	7.82E-01	7.82E-01	-2.88E-01	3.77E-01
	PM-144	476.78		42.00	3.28E-01	1.31E-01	1.21E-01	1.53E-01
		618.01		98.60	1.31E-01		-8.10E-03	5.95E-02
		696.49		99.49	1.56E-01		-7.03E-02	7.12E-02
	PM-145	36.85		21.70	2.13E-01	1.18E-01	-1.80E-02	1.03E-01
		37.36		39.70	1.18E-01		-1.05E-02	5.70E-02
		42.30		15.10	3.66E-01		1.14E-02	1.78E-01
		72.40		2.31	3.69E+00		2.39E+00	1.80E+00
	PM-146	453.90		39.94	2.93E-01	2.93E-01	-1.00E-01	1.36E-01
		735.90		14.01	1.10E+00		-1.24E-01	5.03E-01
		747.13		13.10	1.04E+00		-3.99E-01	4.66E-01
	ND-147	91.11		28.90	1.90E+00	1.90E+00	1.36E+00	9.25E-01
		531.02		13.10	6.25E+00		-1.04E+00	2.87E+00
	PM-149	285.90		3.10	4.39E+04	4.39E+04	9.54E+03	2.08E+04
	EU-152	121.78		20.50	3.75E-01	3.75E-01	-3.33E-02	1.81E-01
		244.69		5.40	2.17E+00		-5.79E-02	1.04E+00
		344.27		19.13	5.49E-01		-1.92E-01	2.58E-01
		778.89		9.20	1.31E+00		-1.08E+00	5.77E-01
		964.01		10.40	1.61E+00		2.23E-01	7.20E-01
		1085.78		7.22	2.29E+00		-9.72E-01	1.01E+00
		1112.02		9.60	2.06E+00		-6.13E-01	9.28E-01
		1407.95		14.94	1.30E+00		2.55E-01	5.70E-01
	GD-153	97.43		31.30	2.53E-01	2.53E-01	-3.78E-03	1.22E-01
		103.18		22.20	3.46E-01		-2.80E-02	1.67E-01
	EU-154	123.07		40.50	1.96E-01	1.96E-01	2.38E-02	9.46E-02
		723.30		19.70	8.30E-01		2.26E-01	3.82E-01
		873.19		11.50	1.17E+00		-5.36E-01	5.17E-01
		996.32		10.30	1.79E+00		5.11E-01	8.10E-01
		1004.76		17.90	9.01E-01		-1.25E-02	4.00E-01
		1274.45		35.50	5.17E-01		5.90E-03	2.26E-01
+	EU-155	86.50	*	30.90	4.17E-01	3.53E-01	2.30E-01	2.05E-01
		105.30		20.70	3.53E-01		7.22E-02	1.71E-01
	EU-156	811.77		10.40	6.44E+00	6.44E+00	-1.35E-01	2.94E+00
		1153.47		7.20	1.15E+01		4.40E+00	5.17E+00
		1230.71		8.90	1.02E+01		-1.04E+00	4.59E+00
	HO-166M	184.41		72.60	1.39E-01	1.39E-01	6.94E-02	6.72E-02

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	280.45		29.60	3.70E-01	1.39E-01	2.06E-01	1.76E-01
		410.94		11.10	1.06E+00		3.05E-01	4.98E-01
		711.69		54.10	2.59E-01		3.56E-04	1.18E-01
	TM-171	66.72		0.14	5.43E+01	5.43E+01	1.51E+01	2.65E+01
	HF-172	81.75		4.52	1.79E+00	7.60E-01	-2.66E+00	8.69E-01
		125.81		11.30	7.60E-01		5.10E-01	3.67E-01
	LU-172	181.53		20.60	1.11E+01	6.88E+00	8.17E-01	5.33E+00
		810.06		16.63	2.25E+01		-4.20E+00	1.03E+01
		912.12		15.25	2.93E+01		1.73E+01	1.34E+01
		1093.66		62.50	6.88E+00		3.53E+00	3.08E+00
	LU-173	100.72		5.24	1.38E+00	4.83E-01	-3.58E-01	6.65E-01
		272.11		21.20	4.83E-01		-8.08E-02	2.29E-01
	HF-175	343.40		84.00	1.73E-01	1.73E-01	-4.04E-02	8.16E-02
	LU-176	88.34		13.30	6.04E-01	1.05E-01	3.19E-01	2.94E-01
		201.83		86.00	1.05E-01		-5.03E-02	5.04E-02
		306.78		94.00	1.12E-01		-2.06E-03	5.30E-02
	TA-182	67.75		41.20	2.13E-01	2.13E-01	-1.73E-01	1.03E-01
		1121.30		34.90	8.36E-01		3.92E-01	3.84E-01
		1189.05		16.23	1.47E+00		-3.61E-01	6.59E-01
		1221.41		26.98	1.03E+00		5.94E-03	4.69E-01
		1231.02		11.44	2.39E+00		-2.45E-01	1.08E+00
	IR-192	308.46		29.68	4.49E-01	3.01E-01	-1.45E-01	2.12E-01
		468.07		48.10	3.01E-01		-3.44E-02	1.39E-01
	HG-203	279.19		77.30	2.20E-01	2.20E-01	1.13E-01	1.05E-01
	BI-207	569.67		97.72	1.43E-01	1.43E-01	-1.29E-02	6.64E-02
		1063.62		74.90	2.77E-01		1.65E-01	1.26E-01
	TL-208	583.14		30.22	5.77E-01	5.77E-01	4.46E-01	2.71E-01
		860.37		4.48	3.77E+00		1.83E+00	1.71E+00
		2614.66		35.85	7.76E-01		0.00E+00	3.32E-01
	BI-210M	262.00		45.00	2.13E-01	2.13E-01	5.46E-02	1.01E-01
		300.00		23.00	5.08E-01		1.31E-01	2.42E-01
+	PB-210	46.50	*	4.25	2.03E+00	2.03E+00	1.20E+00	9.94E-01
	PB-211	404.84		2.90	4.14E+00	4.14E+00	3.31E-01	1.94E+00
		831.96		2.90	6.43E+00		2.35E+00	2.96E+00
	BI-212	727.17		11.80	1.38E+00	1.38E+00	5.51E-01	6.37E-01
		1620.62		2.75	6.23E+00		3.37E+00	2.61E+00
	PB-212	238.63		44.60	3.25E-01	3.25E-01	5.44E-01	1.57E-01
		300.09		3.41	3.43E+00		8.86E-01	1.63E+00
+	BI-214	609.31	*	46.30	4.13E-01	1.89E-01	6.24E-01	1.95E-01
		1120.29		15.10	1.61E+00		5.09E-01	7.38E-01
		1764.49	*	15.80	1.89E-01		1.33E+00	0.00E+00
		2204.22		4.98	3.72E+00		1.17E+00	1.50E+00
+	PB-214	295.21		19.19	6.13E-01	3.66E-01	2.89E-01	2.92E-01
		351.92	*	37.19	3.66E-01		6.61E-01	1.74E-01
	RN-219	401.80		6.50	1.75E+00	1.75E+00	-7.25E-01	8.20E-01
	RA-223	323.87		3.88	2.75E+00	2.75E+00	5.82E-01	1.30E+00
	RA-224	240.98		3.95	3.74E+00	3.74E+00	7.57E+00	1.81E+00
	RA-225	40.00		31.00	6.27E-01	6.27E-01	-1.23E-01	3.03E-01
+	RA-226	186.21	*	3.28	3.20E+00	3.20E+00	2.01E+00	1.54E+00
	TH-227	50.10		8.40	6.93E-01	6.93E-01	5.63E-01	3.36E-01
		236.00		11.50	1.18E+00		-1.83E-02	5.72E-01
		256.20		6.30	1.50E+00		6.81E-02	7.09E-01
	AC-228	338.32		11.40	1.03E+00	6.96E-01	8.62E-01	4.90E-01

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	911.07		27.70	6.96E-01	6.96E-01	4.07E-01	3.18E-01
		969.11		16.60	9.32E-01		4.53E-02	4.14E-01
	TH-230	48.44		16.90	3.45E-01	3.45E-01	2.83E-01	1.68E-01
		62.85		4.60	1.53E+00		1.37E+00	7.46E-01
		67.67		0.37	1.97E+01		-1.61E+01	9.59E+00
	PA-231	283.67		1.60	6.50E+00	4.64E+00	6.87E-01	3.09E+00
		302.67		2.30	4.64E+00		-1.19E+00	2.20E+00
	TH-231	25.64		14.70	3.07E-01	3.07E-01	-1.86E-01	1.49E-01
		84.21		6.40	1.14E+00		-2.78E+00	5.52E-01
	PA-233	311.98		38.60	5.68E-01	5.68E-01	7.69E-02	2.68E-01
	PA-234	131.20		20.40	3.94E-01	3.94E-01	-8.25E-03	1.90E-01
		733.99		8.80	1.62E+00		-1.14E+00	7.35E-01
		946.00		12.00	1.21E+00		-2.62E-01	5.32E-01
	PA-234M	1001.03		0.92	1.77E+01	1.77E+01	-2.41E-01	7.88E+00
	TH-234	63.29		3.80	1.90E+00	1.90E+00	2.24E+00	9.24E-01
	U-235	143.76		10.50	8.34E-01	8.34E-01	6.28E-01	4.03E-01
		163.35		4.70	1.81E+00		-4.76E-02	8.67E-01
		205.31		4.70	2.04E+00		5.04E-01	9.77E-01
+	NP-237	86.50	*	12.60	1.01E+00	1.01E+00	5.56E-01	4.97E-01
	NP-239	106.10		22.70	2.37E+03	2.37E+03	4.84E+02	1.15E+03
		228.18		10.70	6.77E+03		-2.60E+03	3.23E+03
		277.60		14.10	5.42E+03		-9.12E+02	2.58E+03
	AM-241	59.54		35.90	1.80E-01	1.80E-01	3.58E-02	8.73E-02
	AM-243	74.67		66.00	1.37E-01	1.37E-01	3.31E-01	6.71E-02
	CM-243	209.75		3.29	2.90E+00	7.39E-01	-9.57E-01	1.39E+00
		228.14		10.60	9.53E-01		-2.54E-02	4.56E-01
		277.60		14.00	7.39E-01		-1.24E-01	3.51E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-15

FEEBRIS1D-17.033-036

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-17.033-036

Elapsed Live time: 3600
Elapsed Real Time: 3604

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	14	74
17:	53	56	54	46	43	36	30	28
25:	33	33	41	38	36	27	35	35
33:	34	36	32	29	27	33	36	28
41:	40	35	30	47	70	68	40	34
49:	39	35	36	28	36	33	38	27
57:	44	31	47	36	56	58	76	60
65:	50	58	50	51	42	46	38	61
73:	65	82	107	110	92	65	39	24
81:	40	39	45	48	55	39	43	50
89:	45	43	47	61	59	39	30	30
97:	33	21	35	29	34	23	30	34
105:	22	43	31	36	25	25	39	25
113:	21	24	34	24	23	25	24	19
121:	33	32	33	29	38	35	27	31
129:	33	31	29	27	14	27	22	31
137:	22	28	26	30	22	33	36	47
145:	26	22	23	21	19	19	26	29
153:	31	29	19	23	17	22	30	19
161:	17	30	22	26	12	24	23	25
169:	26	22	28	25	20	22	20	23
177:	21	27	25	20	20	25	21	44
185:	34	34	26	16	20	24	19	19
193:	17	25	24	20	14	14	20	20
201:	21	14	19	21	20	13	23	24
209:	23	21	17	16	12	25	12	33
217:	12	19	18	23	25	16	24	15
225:	17	16	15	17	17	22	21	14
233:	15	19	20	20	44	73	62	33
241:	25	25	25	22	20	19	10	18
249:	19	10	8	10	12	15	10	12
257:	16	12	15	13	6	17	15	9
265:	11	9	9	13	18	12	13	12
273:	11	13	11	12	19	18	13	9
281:	14	18	18	12	8	13	12	8
289:	10	10	9	11	18	24	30	13
297:	13	8	14	13	14	18	11	9
305:	13	9	9	10	10	14	8	10
313:	12	8	10	12	9	5	11	10
321:	14	9	11	12	8	7	13	13
329:	4	13	2	12	11	9	8	12
337:	11	19	14	10	15	10	5	9
345:	5	10	9	8	11	18	41	43
353:	20	17	6	5	7	6	11	15
361:	13	4	17	6	6	7	9	12

369:	7	9	8	7	8	10	9	15

Sample Title: FEEBRIS1D-17.033-036

Channel								
377:	7	15	9	4	11	6	10	13
385:	10	6	9	12	8	5	4	10
393:	6	11	9	12	7	8	5	4
401:	8	12	9	8	10	13	6	8
409:	10	11	8	6	5	6	2	6
417:	8	10	9	7	11	9	5	2
425:	7	8	8	15	6	9	10	11
433:	6	5	7	5	8	8	7	7
441:	13	7	6	7	6	10	8	7
449:	6	6	5	8	7	9	7	4
457:	5	10	6	6	5	8	9	9
465:	11	4	2	5	6	5	2	3
473:	6	2	6	10	8	8	12	11
481:	7	6	9	7	4	6	3	4
489:	10	12	3	8	7	4	6	4
497:	7	3	11	4	4	4	10	5
505:	4	2	6	14	21	25	24	13
513:	5	4	4	3	3	4	4	10
521:	7	2	4	4	3	7	7	6
529:	6	5	5	5	4	0	7	7
537:	6	7	2	7	3	10	5	4
545:	5	6	6	8	5	3	8	6
553:	7	13	6	5	4	10	7	5
561:	3	6	5	6	9	3	6	9
569:	6	6	3	5	6	2	10	8
577:	3	4	4	4	4	20	16	11
585:	9	4	9	3	8	5	5	3
593:	10	6	4	7	5	4	9	4
601:	4	5	10	5	2	3	13	25
609:	22	22	4	1	6	2	7	6
617:	5	2	2	2	3	4	2	6
625:	4	5	4	4	7	4	3	4
633:	6	2	8	4	2	4	8	2
641:	4	5	4	3	3	5	3	3
649:	3	4	2	1	3	2	5	2
657:	2	6	3	8	4	5	10	5
665:	4	3	4	4	9	5	6	2
673:	3	2	6	2	5	3	5	3
681:	5	4	5	4	6	4	3	4
689:	4	3	4	10	6	1	3	3
697:	5	3	3	4	9	6	3	4
705:	7	3	7	2	6	1	3	4
713:	5	1	4	4	3	2	5	4
721:	4	4	6	3	8	3	7	6
729:	6	2	3	4	1	4	6	6
737:	3	3	7	5	4	4	4	2
745:	3	1	6	2	1	5	3	2
753:	4	6	3	4	7	4	7	2
761:	4	5	4	3	8	3	2	4
769:	5	3	1	10	1	2	4	3
777:	4	1	0	2	1	2	5	6
785:	2	3	6	3	5	7	3	3
793:	3	6	5	3	2	5	6	0

801:	3	1	6	5	2	4	4	1

Sample Title: FEEBRIS1D-17.033-036

Channel								
809:	5	4	3	8	4	2	6	4
817:	4	6	0	2	4	7	4	1
825:	5	3	2	3	11	4	3	6
833:	4	4	3	6	2	6	3	4
841:	1	2	3	3	3	4	5	1
849:	1	3	2	5	1	1	2	4
857:	4	4	5	2	2	3	5	4
865:	5	2	1	2	3	2	3	1
873:	1	2	0	2	5	3	8	3
881:	0	2	3	4	4	1	2	4
889:	1	2	6	2	2	2	2	1
897:	3	3	6	5	6	1	7	3
905:	3	3	1	2	4	5	15	6
913:	1	2	3	2	1	2	4	2
921:	0	5	4	2	4	3	2	0
929:	2	0	4	5	2	5	5	5
937:	6	3	5	2	1	3	1	1
945:	1	2	2	4	2	3	2	2
953:	4	2	1	1	3	3	2	6
961:	2	2	0	6	0	1	4	4
969:	5	3	0	2	2	3	0	0
977:	1	1	3	6	4	4	1	3
985:	4	1	2	1	6	4	1	1
993:	3	3	7	4	5	2	2	2
1001:	2	0	2	5	2	4	3	1
1009:	0	5	4	6	3	4	1	2
1017:	2	1	3	6	4	2	5	4
1025:	3	1	5	4	3	0	1	2
1033:	0	4	2	4	4	5	2	5
1041:	2	0	2	2	3	3	4	2
1049:	4	4	3	5	1	4	3	0
1057:	1	3	3	5	6	4	1	2
1065:	4	3	5	0	3	3	3	4
1073:	2	3	2	2	2	2	2	3
1081:	4	2	2	0	6	2	3	0
1089:	3	1	5	3	2	3	2	3
1097:	3	1	1	1	4	2	5	3
1105:	1	1	2	0	4	2	4	6
1113:	4	4	2	1	4	4	10	4
1121:	7	3	7	2	1	4	6	0
1129:	5	3	5	4	1	3	2	4
1137:	5	1	2	2	1	2	2	1
1145:	4	3	0	1	2	1	3	1
1153:	3	5	5	5	3	2	5	1
1161:	5	0	1	2	1	2	3	2
1169:	4	6	3	3	2	5	3	2
1177:	4	3	4	4	3	2	2	3
1185:	4	4	2	3	1	3	3	3
1193:	1	5	4	3	2	6	3	2
1201:	4	3	4	2	5	3	3	4
1209:	2	3	1	5	1	8	0	0
1217:	3	5	5	6	4	2	1	1
1225:	5	4	2	4	1	0	6	4

1233:	4	6	3	4	4	4	3	4

Sample Title: FEEBRIS1D-17.033-036

Channel								
1241:	2	3	1	6	1	1	2	1
1249:	1	3	2	4	3	0	3	2
1257:	3	3	2	2	2	1	4	2
1265:	5	1	1	1	1	3	1	0
1273:	4	2	1	4	2	0	2	3
1281:	4	3	1	2	0	3	2	1
1289:	3	1	3	0	4	2	6	1
1297:	1	3	3	2	1	0	0	1
1305:	3	5	1	0	3	0	1	3
1313:	1	2	1	2	1	2	3	3
1321:	3	0	2	1	0	2	2	2
1329:	1	0	3	0	3	2	1	4
1337:	1	2	1	4	1	3	0	1
1345:	1	1	1	3	1	1	2	0
1353:	1	0	0	0	0	1	1	1
1361:	2	1	1	0	3	0	1	2
1369:	1	1	1	1	1	1	0	0
1377:	1	0	1	0	0	2	0	2
1385:	3	0	1	0	3	3	1	0
1393:	3	0	0	1	1	1	1	3
1401:	5	0	0	2	0	0	5	1
1409:	4	1	1	2	2	0	1	1
1417:	2	2	0	2	1	0	1	1
1425:	1	0	1	0	0	0	2	1
1433:	1	1	0	2	0	0	0	0
1441:	2	1	2	0	0	0	0	0
1449:	0	2	1	0	2	2	3	3
1457:	2	10	28	51	44	19	5	0
1465:	0	0	0	2	1	1	0	0
1473:	0	1	1	2	1	0	0	0
1481:	0	1	0	0	0	2	1	0
1489:	1	1	1	0	0	1	2	0
1497:	0	1	1	1	4	2	1	0
1505:	1	0	0	0	0	2	1	1
1513:	1	2	0	0	1	4	0	1
1521:	1	1	0	1	1	0	2	0
1529:	1	0	0	1	0	0	0	2
1537:	1	0	0	1	1	0	0	1
1545:	2	1	3	1	0	1	0	0
1553:	1	3	0	2	0	1	1	1
1561:	0	1	0	1	1	1	1	1
1569:	0	0	0	0	0	0	0	0
1577:	1	1	1	1	0	0	3	0
1585:	2	3	0	2	1	1	0	3
1593:	1	2	0	1	1	1	2	0
1601:	1	0	1	0	1	0	0	1
1609:	1	1	1	1	2	0	0	0
1617:	0	3	0	0	1	3	0	0
1625:	2	0	0	0	0	0	1	0
1633:	2	1	1	2	0	1	0	1
1641:	1	0	3	0	0	0	0	1
1649:	0	1	0	0	0	0	1	0
1657:	1	1	2	2	3	0	1	1

1665:	0	2	0	3	0	1	0	0

Sample Title: FEEBRIS1D-17.033-036

Channel								
1673:	2	0	2	1	0	0	1	2
1681:	0	0	0	0	0	1	0	1
1689:	0	0	0	0	0	0	1	0
1697:	0	1	3	0	1	0	0	0
1705:	0	1	0	1	0	0	1	1
1713:	0	0	0	0	3	1	0	1
1721:	0	0	0	1	0	0	2	1
1729:	0	1	1	0	0	0	0	1
1737:	1	0	1	3	0	0	0	1
1745:	1	1	0	0	0	0	1	0
1753:	2	1	1	1	0	0	0	0
1761:	1	1	2	4	4	2	3	1
1769:	1	0	0	0	0	0	0	0
1777:	0	0	0	0	0	1	1	1
1785:	2	0	2	0	1	0	0	1
1793:	0	1	0	0	0	2	0	0
1801:	0	0	2	1	0	0	1	0
1809:	0	1	1	1	1	0	0	0
1817:	2	0	0	0	2	0	3	1
1825:	2	0	2	2	0	2	0	1
1833:	0	0	0	1	0	2	0	0
1841:	0	0	0	0	1	1	1	1
1849:	0	1	1	1	0	0	0	1
1857:	2	1	0	1	0	0	1	1
1865:	0	0	1	0	0	0	2	0
1873:	0	2	0	0	0	0	0	0
1881:	0	1	1	1	0	0	1	0
1889:	0	0	1	1	0	1	0	0
1897:	0	0	1	0	0	0	1	0
1905:	0	0	0	1	2	1	1	1
1913:	0	1	1	0	1	0	1	1
1921:	0	0	0	1	0	1	0	0
1929:	1	1	0	0	0	0	0	0
1937:	1	1	0	1	1	0	4	0
1945:	0	2	1	0	0	0	0	0
1953:	1	1	0	0	1	0	0	0
1961:	1	0	0	0	0	0	0	0
1969:	0	1	0	1	1	0	0	0
1977:	1	0	0	1	0	2	0	0
1985:	1	0	0	1	0	0	0	0
1993:	0	0	0	0	1	0	0	0
2001:	0	0	0	1	0	0	0	0
2009:	1	0	0	0	0	1	1	1
2017:	0	0	0	0	0	1	0	2
2025:	0	1	1	0	0	0	1	0
2033:	0	0	0	0	1	0	2	0
2041:	0	2	2	0	0	1	0	0
2049:	1	0	0	1	0	0	0	0
2057:	0	0	0	0	1	0	1	0
2065:	0	1	0	0	0	0	0	0
2073:	1	2	0	0	1	0	0	1
2081:	0	0	1	0	2	1	1	0
2089:	0	1	0	0	1	1	2	0

2097:	0	0	0	0	0	2	0	1

Sample Title: FEEBRIS1D-17.033-036

Channel								
2105:	1	0	0	0	0	0	0	1
2113:	0	0	1	0	1	1	1	0
2121:	0	1	0	0	0	0	0	0
2129:	0	0	1	0	0	1	0	1
2137:	0	2	0	0	0	0	0	1
2145:	0	1	1	0	0	1	0	1
2153:	0	1	0	0	1	0	0	0
2161:	0	0	1	0	0	0	0	2
2169:	0	0	1	0	0	0	0	0
2177:	0	0	0	0	0	0	0	0
2185:	0	0	0	0	0	0	0	0
2193:	0	0	0	0	1	0	0	1
2201:	0	0	0	0	2	3	0	0
2209:	0	0	0	0	0	1	0	0
2217:	0	1	0	0	0	0	0	1
2225:	0	0	0	0	2	1	0	1
2233:	0	0	1	0	0	0	0	0
2241:	1	0	0	2	0	0	0	0
2249:	0	0	0	0	0	0	1	0
2257:	0	0	0	0	0	0	0	0
2265:	0	2	1	1	1	0	1	0
2273:	0	1	0	0	0	0	0	0
2281:	0	0	1	0	0	1	1	0
2289:	1	0	1	0	1	0	0	1
2297:	0	0	0	0	0	0	0	0
2305:	0	1	0	0	0	0	0	0
2313:	1	0	0	0	0	0	0	0
2321:	0	0	0	1	1	0	1	0
2329:	0	1	1	1	0	2	0	0
2337:	0	1	1	0	0	1	2	0
2345:	0	0	0	0	0	0	0	0
2353:	0	1	0	0	0	1	2	0
2361:	1	0	0	0	1	2	1	1
2369:	0	0	1	0	0	1	0	0
2377:	0	1	0	0	1	0	0	1
2385:	0	0	0	0	1	0	0	0
2393:	2	2	0	1	0	1	1	0
2401:	0	0	0	0	1	0	1	0
2409:	1	0	0	0	1	0	0	0
2417:	0	0	0	0	0	1	0	0
2425:	0	0	0	0	0	0	0	0
2433:	1	0	0	0	2	0	0	0
2441:	0	0	0	1	0	1	0	1
2449:	1	0	0	1	0	0	0	0
2457:	0	0	0	0	0	0	0	0
2465:	0	0	1	0	0	0	1	0
2473:	0	0	0	0	0	0	0	0
2481:	0	0	1	0	0	0	0	0
2489:	0	0	0	0	1	0	0	0
2497:	0	0	0	1	0	0	0	1
2505:	0	0	0	0	0	0	0	0
2513:	1	0	0	0	1	0	1	0
2521:	1	1	0	1	1	1	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-17.033-036

Channel								
2537:	0	0	0	0	1	0	0	0
2545:	2	2	2	0	0	0	0	0
2553:	0	0	0	0	0	0	1	0
2561:	0	0	0	0	1	0	0	0
2569:	2	0	2	1	0	0	0	0
2577:	0	0	0	0	0	0	0	0
2585:	1	0	1	0	0	0	0	0
2593:	1	0	0	0	0	1	0	0
2601:	0	0	0	0	0	0	0	0
2609:	0	2	1	1	1	4	3	0
2617:	0	0	0	0	0	0	0	0
2625:	0	0	1	0	0	0	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	1	0	1	0	0
2649:	0	0	0	0	0	0	0	0
2657:	1	0	1	0	0	0	0	0
2665:	0	0	0	0	0	0	0	2
2673:	0	0	0	0	0	0	0	0
2681:	0	0	0	1	0	0	0	0
2689:	0	0	1	0	0	0	1	0
2697:	0	0	0	2	0	0	0	0
2705:	1	0	1	1	1	0	0	0
2713:	0	1	0	0	0	0	0	0
2721:	0	0	0	0	0	0	1	0
2729:	0	0	0	0	1	0	0	0
2737:	0	0	0	0	0	0	0	0
2745:	0	1	0	0	1	0	0	0
2753:	0	0	1	0	0	0	0	0
2761:	0	0	0	0	0	0	0	1
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	0	0	1	0	0
2793:	0	0	0	0	1	0	0	0
2801:	0	0	0	0	0	1	0	0
2809:	0	0	0	0	0	0	1	0
2817:	0	0	0	0	0	0	0	0
2825:	1	0	1	0	0	0	0	0
2833:	0	1	0	0	1	0	0	1
2841:	0	0	0	0	0	1	0	0
2849:	0	0	0	0	0	1	0	0
2857:	0	0	0	0	0	1	0	0
2865:	0	1	0	0	0	0	0	0
2873:	1	0	0	0	0	0	0	0
2881:	0	2	1	0	0	0	1	0
2889:	0	0	1	0	0	0	1	0
2897:	0	0	0	0	0	0	1	0
2905:	0	0	0	0	0	0	0	0
2913:	1	0	0	0	0	0	0	0
2921:	0	0	0	1	0	0	0	0
2929:	0	0	0	1	0	1	0	0
2937:	0	1	0	0	0	0	0	0
2945:	0	0	0	0	0	0	1	0
2953:	0	1	0	0	0	1	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-17.033-036

Channel								
2969:	0	0	1	0	1	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	1	0	0	0	0	0	0
2993:	0	1	0	0	0	0	0	0
3001:	0	1	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	1	0	0	0	2	0
3025:	0	0	1	1	0	0	0	0
3033:	0	0	0	0	0	1	0	0
3041:	0	0	2	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	1	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	1	0
3097:	1	0	0	0	0	0	0	0
3105:	0	0	0	1	0	0	0	1
3113:	0	0	0	0	0	0	0	0
3121:	0	0	1	0	0	0	0	0
3129:	2	1	0	0	0	0	0	0
3137:	2	0	0	2	0	0	0	1
3145:	1	0	0	0	0	1	0	0
3153:	0	0	0	0	0	1	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	1	0	0	0
3185:	0	0	1	0	0	0	1	0
3193:	0	1	0	0	0	0	1	0
3201:	1	1	1	0	0	0	0	1
3209:	0	0	0	0	0	0	0	1
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	1	0	0	0	0
3233:	0	0	0	1	0	0	0	0
3241:	0	0	0	0	0	0	1	0
3249:	1	0	0	0	1	0	0	0
3257:	0	0	1	1	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	1	0	0
3281:	0	1	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	1	0	0
3313:	0	0	0	0	0	1	0	0
3321:	0	0	0	1	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	1	0	1	1	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	1	0	1	1	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	1	0	0	1	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-17.033-036

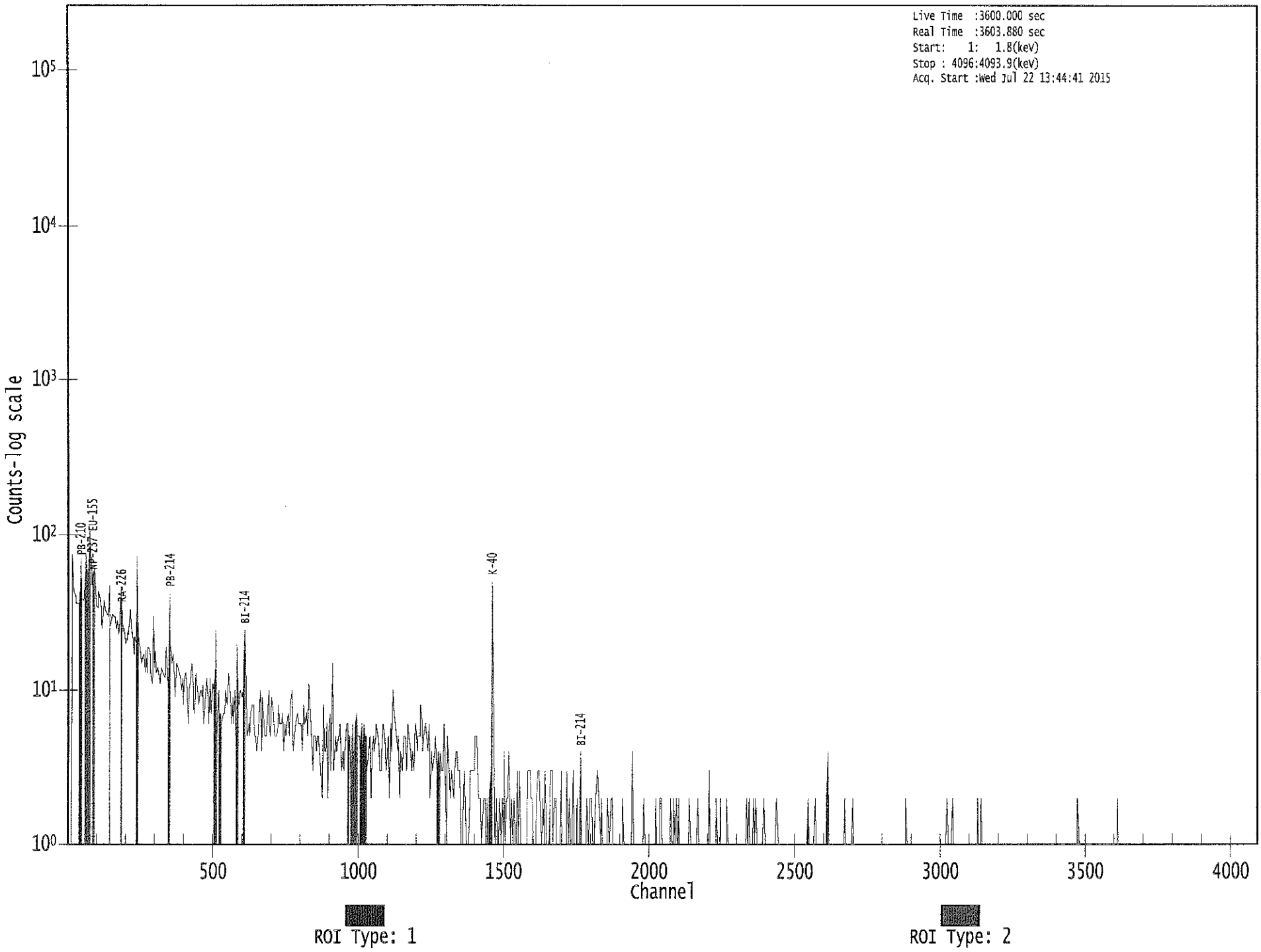
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	1	0	0	0	0	0	1	0
3417:	0	0	0	0	0	1	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	1	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	1	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	2	0	0	0	0	0	0	1
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	1	0	0	1	0	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	1	0	0	0	0	0	0	1
3521:	0	0	0	0	0	0	0	0
3529:	0	1	1	0	0	0	0	1
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	1	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	1	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	1	0	0	0	1
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	2	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	1	0
3681:	0	0	0	1	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	1	0	0	0
3713:	1	0	1	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	1	0	0	0	1	1	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	1	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	1	0	0	0	0	0
3801:	0	0	0	0	0	0	1	1
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	1

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-17.033-036

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	1	0	0	0	0
3865:	1	0	0	0	0	1	0	0
3873:	0	0	0	0	0	0	0	0
3881:	1	0	0	1	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	1	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	1	0	0	0
3937:	0	1	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	1	0	0	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	1	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	1	1	1	0
4017:	0	1	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	1	0
4041:	0	0	0	0	0	1	0	1
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	1	0	0	0	0	0	0	1
4073:	0	0	0	0	0	1	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025025.CNF



KCB 7/22/15

Apex-Gamma

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-16
Sample Description	: FEEBRIS1D-13.093-094
Sample Type	: SOIL
Sample Size	: 6.836E+02 grams
Facility	: Countroom
Sample Taken On	: 6/12/2015 7:43:28AM
Acquisition Started	: 7/22/2015 2:46:42PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.7 seconds
Dead Time	: 0.05 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25026

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 3:46:49PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	13.87	13.99	0.0000	0.00
2	46.88	46.99	0.0000	0.00
3	53.39	53.49	0.0000	0.00
4	63.60	63.70	0.0000	0.00
5	76.43	76.52	0.0000	0.00
6	84.02	84.10	0.0000	0.00
7	88.02	88.10	0.0000	0.00
8	92.88	92.96	0.0000	0.00
9	112.63	112.70	0.0000	0.00
10	144.33	144.38	0.0000	0.00
11	154.37	154.41	0.0000	0.00
12	186.02	186.04	0.0000	0.00
13	210.05	210.07	0.0000	0.00
14	242.32	242.32	0.0000	0.00
15	257.19	257.18	0.0000	0.00
16	270.33	270.31	0.0000	0.00
17	295.37	295.34	0.0000	0.00
18	337.92	337.86	0.0000	0.00
19	352.13	352.07	0.0000	0.00
20	583.10	582.93	0.0000	0.00
21	609.61	609.42	0.0000	0.00
22	616.24	616.04	0.0000	0.00
23	666.42	666.20	0.0000	0.00
24	769.02	768.75	0.0000	0.00
25	785.77	785.50	0.0000	0.00
26	794.83	794.56	0.0000	0.00
27	806.82	806.54	0.0000	0.00
28	839.87	839.57	0.0000	0.00
29	899.78	899.46	0.0000	0.00
30	907.32	907.00	0.0000	0.00
31	911.52	911.19	0.0000	0.00
32	934.54	934.21	0.0000	0.00
33	1081.81	1081.42	0.0000	0.00
34	1094.35	1093.95	0.0000	0.00
35	1120.71	1120.30	0.0000	0.00
36	1155.88	1155.46	0.0000	0.00
37	1207.74	1207.30	0.0000	0.00
38	1238.45	1238.00	0.0000	0.00
39	1377.82	1377.32	0.0000	0.00
40	1385.18	1384.68	0.0000	0.00
41	1408.40	1407.90	0.0000	0.00
42	1461.38	1460.86	0.0000	0.00

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1509.62	1509.09	0.0000	0.00
44	1514.03	1513.49	0.0000	0.00
45	1644.05	1643.47	0.0000	0.00
46	1656.82	1656.24	0.0000	0.00
47	1661.45	1660.87	0.0000	0.00
48	1703.73	1703.14	0.0000	0.00
49	1722.60	1722.00	0.0000	0.00
50	1729.68	1729.09	0.0000	0.00
51	1764.84	1764.23	0.0000	0.00
52	1847.96	1847.34	0.0000	0.00
53	1992.38	1991.73	0.0000	0.00
54	2104.93	2104.25	0.0000	0.00
55	2118.83	2118.15	0.0000	0.00
56	2192.07	2191.38	0.0000	0.00
57	2204.52	2203.83	0.0000	0.00
58	2293.15	2292.44	0.0000	0.00
59	2447.41	2446.69	0.0000	0.00
60	2614.42	2613.67	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 3:46:49PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	13.87	13 -	17	13.99	1.92E+03	147.86	2.59E+03	1.13
	2	46.88	44 -	50	46.99	2.71E+02	115.86	2.25E+03	1.22
	3	53.39	51 -	55	53.49	9.91E+01	84.38	1.48E+03	1.58
	4	63.60	60 -	67	63.70	1.60E+02	142.59	3.30E+03	1.29
	5	76.43	73 -	83	76.52	1.47E+03	204.33	4.80E+03	3.84
M	6	84.02	83 -	96	84.10	1.34E+02	28.54	3.55E+02	1.10
m	7	88.02	83 -	96	88.10	2.06E+02	68.22	1.01E+03	1.11
m	8	92.88	83 -	96	92.96	3.72E+02	71.71	9.32E+02	1.12
	9	112.63	110 -	116	112.70	8.06E+01	96.57	1.63E+03	3.25
	10	144.33	142 -	147	144.38	1.21E+02	86.50	1.40E+03	1.60
	11	154.37	152 -	157	154.41	9.13E+01	85.83	1.40E+03	2.13
	12	186.02	181 -	190	186.04	7.29E+02	124.40	1.79E+03	1.56
	13	210.05	208 -	213	210.07	6.79E+01	67.79	8.52E+02	2.15
	14	242.32	240 -	245	242.32	4.02E+02	89.64	1.18E+03	1.30
	15	257.19	253 -	261	257.18	1.04E+02	81.91	9.59E+02	3.82
	16	270.33	267 -	273	270.31	5.63E+01	68.57	8.11E+02	2.25
	17	295.37	291 -	299	295.34	1.18E+03	101.74	8.62E+02	1.82
	18	337.92	334 -	341	337.86	1.15E+02	60.30	5.23E+02	2.93
	19	352.13	348 -	355	352.07	2.04E+03	106.34	5.28E+02	1.38
	20	583.10	578 -	588	582.93	1.43E+02	49.71	2.55E+02	2.10
M	21	609.61	604 -	620	609.42	1.54E+03	82.21	1.27E+02	1.66
m	22	616.24	604 -	620	616.04	2.77E+01	35.67	1.48E+02	2.75
	23	666.42	663 -	670	666.20	3.50E+01	37.74	2.02E+02	1.81
	24	769.02	764 -	774	768.75	1.87E+02	42.55	1.39E+02	2.19
	25	785.77	781 -	790	785.50	6.15E+01	36.93	1.59E+02	2.02
	26	794.83	791 -	798	794.56	2.58E+01	30.40	1.38E+02	2.68
	27	806.82	803 -	809	806.54	3.55E+01	29.14	1.27E+02	2.11
	28	839.87	835 -	845	839.57	5.93E+01	38.36	1.63E+02	5.17
	29	899.78	895 -	904	899.46	3.00E+01	37.15	1.80E+02	3.05
M	30	907.32	905 -	917	907.00	1.67E+01	17.32	7.09E+01	2.14
m	31	911.52	905 -	917	911.19	6.67E+01	27.82	1.02E+02	2.14
	32	934.54	928 -	938	934.21	6.74E+01	42.87	2.09E+02	2.19
	33	1081.81	1079 -	1083	1081.42	1.49E+01	17.07	5.01E+01	1.12
	34	1094.35	1091 -	1097	1093.95	2.05E+01	19.80	5.70E+01	2.00
	35	1120.71	1116 -	1124	1120.30	3.53E+02	47.49	1.29E+02	2.02
	36	1155.88	1150 -	1159	1155.46	3.68E+01	34.07	1.44E+02	1.75
	37	1207.74	1204 -	1210	1207.30	1.85E+01	20.51	6.30E+01	2.58
	38	1238.45	1234 -	1241	1238.00	1.06E+02	32.00	9.98E+01	2.33
M	39	1377.82	1373 -	1391	1377.32	7.19E+01	25.38	5.60E+01	2.69
m	40	1385.18	1373 -	1391	1384.68	3.06E+01	29.53	8.40E+01	4.02

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1408.40	1404	1411	1407.90	4.37E+01	27.78	9.87E+01	2.23
	42	1461.38	1455	1466	1460.86	2.10E+02	40.69	1.02E+02	1.82
M	43	1509.62	1505	1526	1509.09	5.11E+01	18.65	1.60E+01	2.83
m	44	1514.03	1505	1526	1513.49	2.19E+01	20.12	1.80E+01	2.84
	45	1644.05	1639	1647	1643.47	1.90E+01	8.72	0.00E+00	6.30
M	46	1656.82	1654	1665	1656.24	1.09E+01	5.66	4.00E+00	2.67
m	47	1661.45	1654	1665	1660.87	2.64E+01	14.63	1.00E+01	3.23
	48	1703.73	1700	1706	1703.14	1.45E+01	8.73	3.06E+00	2.97
M	49	1722.60	1721	1734	1722.00	7.88E+00	0.87	2.00E+00	2.46
m	50	1729.68	1721	1734	1729.09	7.25E+01	19.41	1.27E+01	2.98
	51	1764.84	1758	1770	1764.23	2.89E+02	37.11	2.66E+01	2.34
	52	1847.96	1840	1852	1847.34	3.22E+01	21.48	3.96E+01	2.29
	53	1992.38	1986	1996	1991.73	1.83E+01	10.69	5.48E+00	6.68
	54	2104.93	2100	2107	2104.25	8.00E+00	5.66	0.00E+00	3.70
	55	2118.83	2113	2121	2118.15	2.14E+01	12.02	9.23E+00	3.53
	56	2192.07	2188	2195	2191.38	8.00E+00	5.66	0.00E+00	1.92
	57	2204.52	2199	2209	2203.83	9.20E+01	19.18	0.00E+00	3.09
	58	2293.15	2288	2295	2292.44	4.79E+00	6.63	4.43E+00	1.73
	59	2447.41	2441	2452	2446.69	3.19E+01	13.27	6.17E+00	2.10
	60	2614.42	2609	2617	2613.67	3.28E+01	13.73	8.49E+00	2.41

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 3:46:49PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	13.87	13	17	1.92E+03	147.86	2.59E+03	9.79E+01
	2	46.88	44	50	2.71E+02	115.86	2.25E+03	9.13E+01
	3	53.39	51	55	9.91E+01	84.38	1.48E+03	6.74E+01
	4	63.60	60	67	1.60E+02	142.59	3.30E+03	1.15E+02
	5	76.43	73	83	1.47E+03	204.33	4.80E+03	1.56E+02
M	6	84.02	83	96	1.34E+02	28.54	3.55E+02	3.10E+01
m	7	88.02	83	96	2.06E+02	68.22	1.01E+03	5.22E+01
m	8	92.88	83	96	3.72E+02	71.71	9.32E+02	5.02E+01

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	9	112.63	110 -	116	8.06E+01	96.57	1.63E+03	7.80E+01
	10	144.33	142 -	147	1.21E+02	86.50	1.40E+03	6.88E+01
	11	154.37	152 -	157	9.13E+01	85.83	1.40E+03	6.88E+01
	12	186.02	181 -	190	7.29E+02	124.40	1.79E+03	9.21E+01
	13	210.05	208 -	213	6.79E+01	67.79	8.52E+02	5.40E+01
	14	242.32	240 -	245	4.02E+02	89.64	1.18E+03	6.59E+01
	15	257.19	253 -	261	1.04E+02	81.91	9.59E+02	6.52E+01
	16	270.33	267 -	273	5.63E+01	68.57	8.11E+02	5.50E+01
	17	295.37	291 -	299	1.18E+03	101.74	8.62E+02	6.16E+01
	18	337.92	334 -	341	1.15E+02	60.30	5.23E+02	4.63E+01
	19	352.13	348 -	355	2.04E+03	106.34	5.28E+02	4.63E+01
	20	583.10	578 -	588	1.43E+02	49.71	2.55E+02	3.58E+01
M	21	609.61	604 -	620	1.54E+03	82.21	1.27E+02	1.86E+01
m	22	616.24	604 -	620	2.77E+01	35.67	1.48E+02	2.00E+01
	23	666.42	663 -	670	3.50E+01	37.74	2.02E+02	2.95E+01
	24	769.02	764 -	774	1.87E+02	42.55	1.39E+02	2.68E+01
	25	785.77	781 -	790	6.15E+01	36.93	1.59E+02	2.75E+01
	26	794.83	791 -	798	2.58E+01	30.40	1.38E+02	2.35E+01
	27	806.82	803 -	809	3.55E+01	29.14	1.27E+02	2.19E+01
	28	839.87	835 -	845	5.93E+01	38.36	1.63E+02	2.89E+01
	29	899.78	895 -	904	3.00E+01	37.15	1.80E+02	2.92E+01
M	30	907.32	905 -	917	1.67E+01	17.32	7.09E+01	1.38E+01
m	31	911.52	905 -	917	6.67E+01	27.82	1.02E+02	1.66E+01
	32	934.54	928 -	938	6.74E+01	42.87	2.09E+02	3.25E+01
	33	1081.81	1079 -	1083	1.49E+01	17.07	5.01E+01	1.25E+01
	34	1094.35	1091 -	1097	2.05E+01	19.80	5.70E+01	1.45E+01
	35	1120.71	1116 -	1124	3.53E+02	47.49	1.29E+02	2.39E+01
	36	1155.88	1150 -	1159	3.68E+01	34.07	1.44E+02	2.62E+01
	37	1207.74	1204 -	1210	1.85E+01	20.51	6.30E+01	1.53E+01
	38	1238.45	1234 -	1241	1.06E+02	32.00	9.98E+01	2.01E+01
M	39	1377.82	1373 -	1391	7.19E+01	25.38	5.60E+01	1.23E+01
m	40	1385.18	1373 -	1391	3.06E+01	29.53	8.40E+01	1.51E+01
	41	1408.40	1404 -	1411	4.37E+01	27.78	9.87E+01	2.01E+01
	42	1461.38	1455 -	1466	2.10E+02	40.69	1.02E+02	2.35E+01
M	43	1509.62	1505 -	1526	5.11E+01	18.65	1.60E+01	6.58E+00
m	44	1514.03	1505 -	1526	2.19E+01	20.12	1.80E+01	6.97E+00
	45	1644.05	1639 -	1647	1.90E+01	8.72	0.00E+00	0.00E+00
M	46	1656.82	1654 -	1665	1.09E+01	5.66	4.00E+00	3.29E+00
m	47	1661.45	1654 -	1665	2.64E+01	14.63	1.00E+01	5.20E+00
	48	1703.73	1700 -	1706	1.45E+01	8.73	3.06E+00	3.52E+00
M	49	1722.60	1721 -	1734	7.88E+00	0.87	2.00E+00	2.33E+00
m	50	1729.68	1721 -	1734	7.25E+01	19.41	1.27E+01	5.86E+00
	51	1764.84	1758 -	1770	2.89E+02	37.11	2.66E+01	1.23E+01
	52	1847.96	1840 -	1852	3.22E+01	21.48	3.96E+01	1.50E+01
	53	1992.38	1986 -	1996	1.83E+01	10.69	5.48E+00	5.28E+00
	54	2104.93	2100 -	2107	8.00E+00	5.66	0.00E+00	0.00E+00
	55	2118.83	2113 -	2121	2.14E+01	12.02	9.23E+00	6.31E+00
	56	2192.07	2188 -	2195	8.00E+00	5.66	0.00E+00	0.00E+00
	57	2204.52	2199 -	2209	9.20E+01	19.18	0.00E+00	0.00E+00
	58	2293.15	2288 -	2295	4.79E+00	6.63	4.43E+00	4.10E+00
	59	2447.41	2441 -	2452	3.19E+01	13.27	6.17E+00	5.72E+00

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
60	2614.42	2609 -	2617	3.28E+01	13.73	8.49E+00	6.23E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 3:46:49PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	13.87	13 -	17	13.99	1.92E+03	147.86	2.59E+03	.....
	2	46.88	44 -	50	46.99	2.71E+02	115.86	2.25E+03	PB-210
	3	53.39	51 -	55	53.49	9.91E+01	84.38	1.48E+03	.....
	4	63.60	60 -	67	63.70	1.60E+02	142.59	3.30E+03	TH-234
									TH-230
	5	76.43	73 -	83	76.52	1.47E+03	204.33	4.80E+03	.....
M	6	84.02	83 -	96	84.10	1.34E+02	28.54	3.55E+02	TH-231
m	7	88.02	83 -	96	88.10	2.06E+02	68.22	1.01E+03	CD-109
									LU-176
									SN-126
m	8	92.88	83 -	96	92.96	3.72E+02	71.71	9.32E+02	GA-67
	9	112.63	110 -	116	112.70	8.06E+01	96.57	1.63E+03	.....
	10	144.33	142 -	147	144.38	1.21E+02	86.50	1.40E+03	U-235
	11	154.37	152 -	157	154.41	9.13E+01	85.83	1.40E+03	.....
	12	186.02	181 -	190	186.04	7.29E+02	124.40	1.79E+03	RA-226
	13	210.05	208 -	213	210.07	6.79E+01	67.79	8.52E+02	CM-243
	14	242.32	240 -	245	242.32	4.02E+02	89.64	1.18E+03	.....
	15	257.19	253 -	261	257.18	1.04E+02	81.91	9.59E+02	TH-227
	16	270.33	267 -	273	270.31	5.63E+01	68.57	8.11E+02	.....
	17	295.37	291 -	299	295.34	1.18E+03	101.74	8.62E+02	PB-214
	18	337.92	334 -	341	337.86	1.15E+02	60.30	5.23E+02	AC-228
	19	352.13	348 -	355	352.07	2.04E+03	106.34	5.28E+02	PB-214
	20	583.10	578 -	588	582.93	1.43E+02	49.71	2.55E+02	TL-208
M	21	609.61	604 -	620	609.42	1.54E+03	82.21	1.27E+02	BI-214
m	22	616.24	604 -	620	616.04	2.77E+01	35.67	1.48E+02	.....

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	23	666.42	663 -	670	666.20	3.50E+01	37.74	2.02E+02	SB-126
	24	769.02	764 -	774	768.75	1.87E+02	42.55	1.39E+02	.....
	25	785.77	781 -	790	785.50	6.15E+01	36.93	1.59E+02	.....
	26	794.83	791 -	798	794.56	2.58E+01	30.40	1.38E+02	.....
	27	806.82	803 -	809	806.54	3.55E+01	29.14	1.27E+02	.....
	28	839.87	835 -	845	839.57	5.93E+01	38.36	1.63E+02	.....
	29	899.78	895 -	904	899.46	3.00E+01	37.15	1.80E+02	.....
M	30	907.32	905 -	917	907.00	1.67E+01	17.32	7.09E+01	.....
m	31	911.52	905 -	917	911.19	6.67E+01	27.82	1.02E+02	AC-228 LU-172
	32	934.54	928 -	938	934.21	6.74E+01	42.87	2.09E+02	.....
	33	1081.81	1079 -	1083	1081.42	1.49E+01	17.07	5.01E+01	.....
	34	1094.35	1091 -	1097	1093.95	2.05E+01	19.80	5.70E+01	LU-172
	35	1120.71	1116 -	1124	1120.30	3.53E+02	47.49	1.29E+02	SC-46 BI-214 TA-182
	36	1155.88	1150 -	1159	1155.46	3.68E+01	34.07	1.44E+02	.....
	37	1207.74	1204 -	1210	1207.30	1.85E+01	20.51	6.30E+01	.....
	38	1238.45	1234 -	1241	1238.00	1.06E+02	32.00	9.98E+01	CO-56
M	39	1377.82	1373 -	1391	1377.32	7.19E+01	25.38	5.60E+01	.....
m	40	1385.18	1373 -	1391	1384.68	3.06E+01	29.53	8.40E+01	AG-110M
	41	1408.40	1404 -	1411	1407.90	4.37E+01	27.78	9.87E+01	EU-152
	42	1461.38	1455 -	1466	1460.86	2.10E+02	40.69	1.02E+02	K-40
M	43	1509.62	1505 -	1526	1509.09	5.11E+01	18.65	1.60E+01	.....
m	44	1514.03	1505 -	1526	1513.49	2.19E+01	20.12	1.80E+01	.....
	45	1644.05	1639 -	1647	1643.47	1.90E+01	8.72	0.00E+00	.....
M	46	1656.82	1654 -	1665	1656.24	1.09E+01	5.66	4.00E+00	.....
m	47	1661.45	1654 -	1665	1660.87	2.64E+01	14.63	1.00E+01	.....
	48	1703.73	1700 -	1706	1703.14	1.45E+01	8.73	3.06E+00	.....
M	49	1722.60	1721 -	1734	1722.00	7.88E+00	0.87	2.00E+00	.....
m	50	1729.68	1721 -	1734	1729.09	7.25E+01	19.41	1.27E+01	.....
	51	1764.84	1758 -	1770	1764.23	2.89E+02	37.11	2.66E+01	BI-214
	52	1847.96	1840 -	1852	1847.34	3.22E+01	21.48	3.96E+01	.....
	53	1992.38	1986 -	1996	1991.73	1.83E+01	10.69	5.48E+00	.....
	54	2104.93	2100 -	2107	2104.25	8.00E+00	5.66	0.00E+00	.....
	55	2118.83	2113 -	2121	2118.15	2.14E+01	12.02	9.23E+00	.....
	56	2192.07	2188 -	2195	2191.38	8.00E+00	5.66	0.00E+00	.....
	57	2204.52	2199 -	2209	2203.83	9.20E+01	19.18	0.00E+00	BI-214
	58	2293.15	2288 -	2295	2292.44	4.79E+00	6.63	4.43E+00	.....
	59	2447.41	2441 -	2452	2446.69	3.19E+01	13.27	6.17E+00	.....
	60	2614.42	2609 -	2617	2613.67	3.28E+01	13.73	8.49E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 3:46:49PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	13.87	1.92E+03	147.86	9.47E-08	1.68E-03
	2	46.88	2.71E+02	115.86	1.37E-02	1.68E-03
	3	53.39	9.91E+01	84.38	1.84E-02	1.68E-03
	4	63.60	1.60E+02	142.59	2.39E-02	2.08E-03
	5	76.43	1.47E+03	204.33	2.74E-02	3.35E-03
M	6	84.02	1.34E+02	28.54	2.82E-02	4.11E-03
m	7	88.02	2.06E+02	68.22	2.84E-02	4.50E-03
m	8	92.88	3.72E+02	71.71	2.85E-02	4.29E-03
	9	112.63	8.06E+01	96.57	2.75E-02	3.41E-03
	10	144.33	1.21E+02	86.50	2.46E-02	2.32E-03
	11	154.37	9.13E+01	85.83	2.37E-02	2.02E-03
	12	186.02	7.29E+02	124.40	2.11E-02	1.65E-03
	13	210.05	6.79E+01	67.79	1.95E-02	1.63E-03
	14	242.32	4.02E+02	89.64	1.77E-02	1.60E-03
	15	257.19	1.04E+02	81.91	1.70E-02	1.58E-03
	16	270.33	5.63E+01	68.57	1.64E-02	1.57E-03
	17	295.37	1.18E+03	101.74	1.55E-02	1.48E-03
	18	337.92	1.15E+02	60.30	1.41E-02	1.28E-03
	19	352.13	2.04E+03	106.34	1.37E-02	1.21E-03
	20	583.10	1.43E+02	49.71	9.58E-03	8.25E-04
M	21	609.61	1.54E+03	82.21	9.27E-03	7.98E-04
m	22	616.24	2.77E+01	35.67	9.19E-03	7.91E-04
	23	666.42	3.50E+01	37.74	8.66E-03	7.42E-04
	24	769.02	1.87E+02	42.55	7.74E-03	6.76E-04
	25	785.77	6.15E+01	36.93	7.60E-03	6.65E-04
	26	794.83	2.58E+01	30.40	7.53E-03	6.60E-04
	27	806.82	3.55E+01	29.14	7.44E-03	6.52E-04
	28	839.87	5.93E+01	38.36	7.21E-03	6.31E-04
	29	899.78	3.00E+01	37.15	6.81E-03	5.92E-04
M	30	907.32	1.67E+01	17.32	6.77E-03	5.89E-04
m	31	911.52	6.67E+01	27.82	6.74E-03	5.86E-04
	32	934.54	6.74E+01	42.87	6.61E-03	5.75E-04
	33	1081.81	1.49E+01	17.07	5.87E-03	4.99E-04
	34	1094.35	2.05E+01	19.80	5.81E-03	4.93E-04
	35	1120.71	3.53E+02	47.49	5.70E-03	4.80E-04
	36	1155.88	3.68E+01	34.07	5.56E-03	4.62E-04
	37	1207.74	1.85E+01	20.51	5.37E-03	4.69E-04
	38	1238.45	1.06E+02	32.00	5.27E-03	4.83E-04
M	39	1377.82	7.19E+01	25.38	4.87E-03	5.08E-04
m	40	1385.18	3.06E+01	29.53	4.85E-03	5.05E-04
	41	1408.40	4.37E+01	27.78	4.79E-03	4.95E-04
	42	1461.38	2.10E+02	40.69	4.67E-03	4.73E-04
M	43	1509.62	5.11E+01	18.65	4.57E-03	4.53E-04
m	44	1514.03	2.19E+01	20.12	4.56E-03	4.51E-04
	45	1644.05	1.90E+01	8.72	4.34E-03	3.97E-04

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	46	1656.82	1.09E+01	5.66	4.32E-03	3.92E-04
m	47	1661.45	2.64E+01	14.63	4.32E-03	3.90E-04
	48	1703.73	1.45E+01	8.73	4.26E-03	3.73E-04
M	49	1722.60	7.88E+00	0.87	4.23E-03	3.65E-04
m	50	1729.68	7.25E+01	19.41	4.23E-03	3.62E-04
	51	1764.84	2.89E+02	37.11	4.18E-03	3.47E-04
	52	1847.96	3.22E+01	21.48	4.10E-03	3.18E-04
	53	1992.38	1.83E+01	10.69	4.00E-03	3.18E-04
	54	2104.93	8.00E+00	5.66	3.95E-03	3.18E-04
	55	2118.83	2.14E+01	12.02	3.95E-03	3.18E-04
	56	2192.07	8.00E+00	5.66	3.93E-03	3.18E-04
	57	2204.52	9.20E+01	19.18	3.93E-03	3.18E-04
	58	2293.15	4.79E+00	6.63	3.93E-03	3.18E-04
	59	2447.41	3.19E+01	13.27	3.96E-03	3.18E-04
	60	2614.42	3.28E+01	13.73	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 3:46:49PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	13.87	1.92E+03	147.86	1.24E+03	4.65E+01	6.87E+02	1.55E+02
	2	46.88	2.71E+02	115.86	5.47E+01	1.18E+01	2.16E+02	1.16E+02
	3	53.39	9.91E+01	84.38			9.91E+01	8.44E+01
	4	63.60	1.60E+02	142.59	2.99E+01	6.15E+00	1.30E+02	1.43E+02
	5	76.43	1.47E+03	204.33			1.47E+03	2.04E+02
M	6	84.02	1.34E+02	28.54			1.34E+02	2.85E+01
m	7	88.02	2.06E+02	68.22			2.06E+02	6.82E+01
m	8	92.88	3.72E+02	71.71	5.29E+01	8.67E+00	3.19E+02	7.22E+01
	9	112.63	8.06E+01	96.57	1.23E+00	7.88E+00	7.94E+01	9.69E+01
	10	144.33	1.21E+02	86.50	5.99E+00	7.82E+00	1.15E+02	8.69E+01
	11	154.37	9.13E+01	85.83			9.13E+01	8.58E+01
	12	186.02	7.29E+02	124.40	4.79E+01	7.81E+00	6.81E+02	1.25E+02
	13	210.05	6.79E+01	67.79			6.79E+01	6.78E+01
	14	242.32	4.02E+02	89.64	7.15E+00	2.42E+00	3.95E+02	8.97E+01
	15	257.19	1.04E+02	81.91			1.04E+02	8.19E+01

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	16	270.33	5.63E+01	68.57			5.63E+01	6.86E+01
	17	295.37	1.18E+03	101.74	1.30E+01	5.93E+00	1.17E+03	1.02E+02
	18	337.92	1.15E+02	60.30			1.15E+02	6.03E+01
	19	352.13	2.04E+03	106.34	1.67E+01	5.59E+00	2.02E+03	1.06E+02
	20	583.10	1.43E+02	49.71	7.99E+00	3.88E+00	1.35E+02	4.99E+01
M	21	609.61	1.54E+03	82.21	1.77E+01	8.73E+00	1.53E+03	8.27E+01
m	22	616.24	2.77E+01	35.67			2.77E+01	3.57E+01
	23	666.42	3.50E+01	37.74			3.50E+01	3.77E+01
	24	769.02	1.87E+02	42.55			1.87E+02	4.25E+01
	25	785.77	6.15E+01	36.93			6.15E+01	3.69E+01
	26	794.83	2.58E+01	30.40			2.58E+01	3.04E+01
	27	806.82	3.55E+01	29.14			3.55E+01	2.91E+01
	28	839.87	5.93E+01	38.36			5.93E+01	3.84E+01
	29	899.78	3.00E+01	37.15			3.00E+01	3.71E+01
M	30	907.32	1.67E+01	17.32			1.67E+01	1.73E+01
m	31	911.52	6.67E+01	27.82	3.66E+00	2.67E+00	6.30E+01	2.79E+01
	32	934.54	6.74E+01	42.87			6.74E+01	4.29E+01
	33	1081.81	1.49E+01	17.07			1.49E+01	1.71E+01
	34	1094.35	2.05E+01	19.80			2.05E+01	1.98E+01
	35	1120.71	3.53E+02	47.49	5.40E+00	2.54E+00	3.47E+02	4.76E+01
	36	1155.88	3.68E+01	34.07			3.68E+01	3.41E+01
	37	1207.74	1.85E+01	20.51			1.85E+01	2.05E+01
	38	1238.45	1.06E+02	32.00	1.40E+00	2.38E+00	1.05E+02	3.21E+01
M	39	1377.82	7.19E+01	25.38			7.19E+01	2.54E+01
m	40	1385.18	3.06E+01	29.53			3.06E+01	2.95E+01
	41	1408.40	4.37E+01	27.78			4.37E+01	2.78E+01
	42	1461.38	2.10E+02	40.69	1.02E+01	2.32E+00	2.00E+02	4.08E+01
M	43	1509.62	5.11E+01	18.65			5.11E+01	1.87E+01
m	44	1514.03	2.19E+01	20.12			2.19E+01	2.01E+01
	45	1644.05	1.90E+01	8.72			1.90E+01	8.72E+00
M	46	1656.82	1.09E+01	5.66			1.09E+01	5.66E+00
m	47	1661.45	2.64E+01	14.63			2.64E+01	1.46E+01
	48	1703.73	1.45E+01	8.73			1.45E+01	8.73E+00
M	49	1722.60	7.88E+00	0.87			7.88E+00	8.66E-01
m	50	1729.68	7.25E+01	19.41			7.25E+01	1.94E+01
	51	1764.84	2.89E+02	37.11	4.45E+00	2.04E+00	2.84E+02	3.72E+01
	52	1847.96	3.22E+01	21.48			3.22E+01	2.15E+01
	53	1992.38	1.83E+01	10.69			1.83E+01	1.07E+01
	54	2104.93	8.00E+00	5.66			8.00E+00	5.66E+00
	55	2118.83	2.14E+01	12.02			2.14E+01	1.20E+01
	56	2192.07	8.00E+00	5.66			8.00E+00	5.66E+00
	57	2204.52	9.20E+01	19.18	2.10E+00	1.24E+00	8.99E+01	1.92E+01
	58	2293.15	4.79E+00	6.63			4.79E+00	6.63E+00
	59	2447.41	3.19E+01	13.27			3.19E+01	1.33E+01
	60	2614.42	3.28E+01	13.73	6.29E+00	1.69E+00	2.65E+01	1.38E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 3:46:49PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	13.87	1.92E+03	147.86	1.24E+03	4.65E+01	6.87E+02	1.55E+02
	2	46.88	2.71E+02	115.86	5.47E+01	1.18E+01	2.16E+02	1.16E+02
	3	53.39	9.91E+01	84.38			9.91E+01	8.44E+01
	4	63.60	1.60E+02	142.59	2.99E+01	6.15E+00	1.30E+02	1.43E+02
	5	76.43	1.47E+03	204.33			1.47E+03	2.04E+02
M	6	84.02	1.34E+02	28.54			1.34E+02	2.85E+01
m	7	88.02	2.06E+02	68.22			2.06E+02	6.82E+01
m	8	92.88	3.72E+02	71.71	5.29E+01	8.67E+00	3.19E+02	7.22E+01
	9	112.63	8.06E+01	96.57	1.23E+00	7.88E+00	7.94E+01	9.69E+01
	10	144.33	1.21E+02	86.50	5.99E+00	7.82E+00	1.15E+02	8.69E+01
	11	154.37	9.13E+01	85.83			9.13E+01	8.58E+01
	12	186.02	7.29E+02	124.40	4.79E+01	7.81E+00	6.81E+02	1.25E+02
	13	210.05	6.79E+01	67.79			6.79E+01	6.78E+01
	14	242.32	4.02E+02	89.64	7.15E+00	2.42E+00	3.95E+02	8.97E+01
	15	257.19	1.04E+02	81.91			1.04E+02	8.19E+01
	16	270.33	5.63E+01	68.57			5.63E+01	6.86E+01
	17	295.37	1.18E+03	101.74	1.30E+01	5.93E+00	1.17E+03	1.02E+02
	18	337.92	1.15E+02	60.30			1.15E+02	6.03E+01
	19	352.13	2.04E+03	106.34	1.67E+01	5.59E+00	2.02E+03	1.06E+02
	20	583.10	1.43E+02	49.71	7.99E+00	3.88E+00	1.35E+02	4.99E+01
M	21	609.61	1.54E+03	82.21	1.77E+01	8.73E+00	1.53E+03	8.27E+01
m	22	616.24	2.77E+01	35.67			2.77E+01	3.57E+01
	23	666.42	3.50E+01	37.74			3.50E+01	3.77E+01
	24	769.02	1.87E+02	42.55			1.87E+02	4.25E+01
	25	785.77	6.15E+01	36.93			6.15E+01	3.69E+01
	26	794.83	2.58E+01	30.40			2.58E+01	3.04E+01
	27	806.82	3.55E+01	29.14			3.55E+01	2.91E+01
	28	839.87	5.93E+01	38.36			5.93E+01	3.84E+01
	29	899.78	3.00E+01	37.15			3.00E+01	3.71E+01
M	30	907.32	1.67E+01	17.32			1.67E+01	1.73E+01
m	31	911.52	6.67E+01	27.82	3.66E+00	2.67E+00	6.30E+01	2.79E+01
	32	934.54	6.74E+01	42.87			6.74E+01	4.29E+01
	33	1081.81	1.49E+01	17.07			1.49E+01	1.71E+01
	34	1094.35	2.05E+01	19.80			2.05E+01	1.98E+01
	35	1120.71	3.53E+02	47.49	5.40E+00	2.54E+00	3.47E+02	4.76E+01
	36	1155.88	3.68E+01	34.07			3.68E+01	3.41E+01
	37	1207.74	1.85E+01	20.51			1.85E+01	2.05E+01
	38	1238.45	1.06E+02	32.00	1.40E+00	2.38E+00	1.05E+02	3.21E+01
M	39	1377.82	7.19E+01	25.38			7.19E+01	2.54E+01

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	40	1385.18	3.06E+01	29.53			3.06E+01	2.95E+01
	41	1408.40	4.37E+01	27.78			4.37E+01	2.78E+01
	42	1461.38	2.10E+02	40.69	1.02E+01	2.32E+00	2.00E+02	4.08E+01
M	43	1509.62	5.11E+01	18.65			5.11E+01	1.87E+01
m	44	1514.03	2.19E+01	20.12			2.19E+01	2.01E+01
	45	1644.05	1.90E+01	8.72			1.90E+01	8.72E+00
M	46	1656.82	1.09E+01	5.66			1.09E+01	5.66E+00
m	47	1661.45	2.64E+01	14.63			2.64E+01	1.46E+01
	48	1703.73	1.45E+01	8.73			1.45E+01	8.73E+00
M	49	1722.60	7.88E+00	0.87			7.88E+00	8.66E-01
m	50	1729.68	7.25E+01	19.41			7.25E+01	1.94E+01
	51	1764.84	2.89E+02	37.11	4.45E+00	2.04E+00	2.84E+02	3.72E+01
	52	1847.96	3.22E+01	21.48			3.22E+01	2.15E+01
	53	1992.38	1.83E+01	10.69			1.83E+01	1.07E+01
	54	2104.93	8.00E+00	5.66			8.00E+00	5.66E+00
	55	2118.83	2.14E+01	12.02			2.14E+01	1.20E+01
	56	2192.07	8.00E+00	5.66			8.00E+00	5.66E+00
	57	2204.52	9.20E+01	19.18	2.10E+00	1.24E+00	8.99E+01	1.92E+01
	58	2293.15	4.79E+00	6.63			4.79E+00	6.63E+00
	59	2447.41	3.19E+01	13.27			3.19E+01	1.33E+01
	60	2614.42	3.28E+01	13.73	6.29E+00	1.69E+00	2.65E+01	1.38E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.949	1460.81	*	10.67	4.40E+00	1.01E+00
CD-109	1.000	88.03	*	3.72	2.27E+00	8.45E-01
SN-126	0.968	87.57	*	37.00	2.15E-01	7.89E-02
TL-208	0.888	583.14	*	30.22	5.11E-01	1.94E-01
		860.37		4.48		
		2614.66	*	35.85	2.00E-01	1.06E-01
PB-210	0.977	46.50	*	4.25	4.10E+00	2.26E+00
BI-214	0.983	609.31	*	46.30	3.91E+00	3.97E-01
		1120.29	*	15.10	4.43E+00	7.12E-01
		1764.49	*	15.80	4.72E+00	7.31E-01

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.983	2204.22	*	4.98	5.04E+00	1.15E+00
PB-214	0.994	295.21	*	19.19	4.34E+00	5.61E-01
		351.92	*	37.19	4.35E+00	4.46E-01
RA-226	0.994	186.21	*	3.28	1.08E+01	1.99E+01
AC-228	0.550	338.32	*	11.40	7.88E-01	4.18E-01
		911.07	*	27.70	3.70E-01	1.67E-01
		969.11		16.60		
TH-231	0.610	25.64		14.70		
		84.21	*	6.40	8.14E-01	2.10E-01
TH-234	0.985	63.29	*	3.80	1.57E+00	1.73E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 3:46:49PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.87	1.90857E-01	11.28		
	3	53.39	2.75196E-02	42.59		
	5	76.43	4.07613E-01	6.96		
m	8	92.88	8.85210E-02	11.33	Sum	
	9	112.63	2.20475E-02	61.04		
	10	144.33	3.19363E-02	37.77	Tol.	U-235
	11	154.37	2.53538E-02	47.02		
	13	210.05	1.88571E-02	49.93	Tol.	CM-243
	14	242.32	1.09630E-01	11.36		
	15	257.19	2.90116E-02	39.22	Tol.	TH-227
	16	270.33	1.56349E-02	60.92	Sum	
m	22	616.24	7.70307E-03	64.31		
	23	666.42	9.73141E-03	53.86	Sum	
	24	769.02	5.18685E-02	11.39	Sum	
	25	785.77	1.70942E-02	30.01		
	26	794.83	7.17251E-03	58.86	Sum	
	27	806.82	9.87233E-03	41.00		
	28	839.87	1.64598E-02	32.37		
	29	899.78	8.33333E-03	61.91		

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	30	907.32	4.64332E-03	51.81		
	32	934.54	1.87209E-02	31.80	Sum	
	33	1081.81	4.14931E-03	57.12		
	34	1094.35	5.68878E-03	48.34	Tol.	LU-172
	36	1155.88	1.02192E-02	46.31		
	37	1207.74	5.13889E-03	55.42	Sum	
	38	1238.45	2.90905E-02	15.32		
M	39	1377.82	1.99659E-02	17.65		
m	40	1385.18	8.50197E-03	48.24		
	41	1408.40	1.21311E-02	31.81	Tol.	EU-152
M	43	1509.62	1.41806E-02	18.27		
m	44	1514.03	6.07986E-03	45.97		
	45	1644.05	5.27778E-03	22.94		
M	46	1656.82	3.01542E-03	26.06		
m	47	1661.45	7.32453E-03	27.74		
	48	1703.73	4.01910E-03	30.18	Sum	
M	49	1722.60	2.19011E-03	5.49		
m	50	1729.68	2.01475E-02	13.38	Sum	
	52	1847.96	8.94231E-03	33.37	Sum	
	53	1992.38	5.07275E-03	29.27		
	54	2104.93	2.22222E-03	35.36		
	55	2118.83	5.94017E-03	28.11		
	56	2192.07	2.22222E-03	35.36		
	58	2293.15	1.32937E-03	69.30	Sum	
	59	2447.41	8.86508E-03	20.78		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.94	1460.81	*	10.67	4.40E+00	1.01E+00
CD-109	1.00	88.03	*	3.72	2.27E+00	8.45E-01
SN-126	0.96	87.57	*	37.00	2.15E-01	7.89E-02

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.88	583.14	*	30.22	5.11E-01	1.94E-01
		860.37		4.48		
		2614.66	*	35.85	2.00E-01	1.06E-01
PB-210	0.97	46.50	*	4.25	4.10E+00	2.26E+00
BI-214	0.98	609.31	*	46.30	3.91E+00	3.97E-01
		1120.29	*	15.10	4.43E+00	7.12E-01
		1764.49	*	15.80	4.72E+00	7.31E-01
		2204.22	*	4.98	5.04E+00	1.15E+00
PB-214	0.99	295.21	*	19.19	4.34E+00	5.61E-01
		351.92	*	37.19	4.35E+00	4.46E-01
RA-226	0.99	186.21	*	3.28	1.08E+01	1.99E+01
AC-228	0.55	338.32	*	11.40	7.88E-01	4.18E-01
		911.07	*	27.70	3.70E-01	1.67E-01
		969.11		16.60		
TH-231	0.61	25.64		14.70		
		84.21	*	6.40	8.14E-01	2.10E-01
TH-234	0.98	63.29	*	3.80	1.57E+00	1.73E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.949	4.40E+00	1.01E+00	
?	CD-109	1.000	2.27E+00	8.45E-01	
?	SN-126	0.968	2.15E-01	7.89E-02	
	TL-208	0.888	2.71E-01	9.29E-02	
	PB-210	0.977	4.10E+00	2.26E+00	
	BI-214	0.983	4.22E+00	3.03E-01	
	PB-214	0.994	4.34E+00	3.49E-01	
	RA-226	0.994	1.08E+01	1.99E+01	
	AC-228	0.550	4.28E-01	1.55E-01	
	TH-231	0.610	8.14E-01	2.10E-01	

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
TH-234	0.985	1.57E+00	1.73E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 3:46:49PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.87	1.90857E-01	11.28		
	3	53.39	2.75196E-02	42.59		
	5	76.43	4.07613E-01	6.96		
m	8	92.88	8.85210E-02	11.33	Sum	
	9	112.63	2.20475E-02	61.04		
	10	144.33	3.19363E-02	37.77	Tol.	U-235
	11	154.37	2.53538E-02	47.02		
	13	210.05	1.88571E-02	49.93	Tol.	CM-243
	14	242.32	1.09630E-01	11.36		
	15	257.19	2.90116E-02	39.22	Tol.	TH-227
	16	270.33	1.56349E-02	60.92	Sum	
m	22	616.24	7.70307E-03	64.31		
	23	666.42	9.73141E-03	53.86	Sum	
	24	769.02	5.18685E-02	11.39	Sum	
	25	785.77	1.70942E-02	30.01		
	26	794.83	7.17251E-03	58.86	Sum	
	27	806.82	9.87233E-03	41.00		
	28	839.87	1.64598E-02	32.37		
	29	899.78	8.33333E-03	61.91		
M	30	907.32	4.64332E-03	51.81		
	32	934.54	1.87209E-02	31.80	Sum	
	33	1081.81	4.14931E-03	57.12		
	34	1094.35	5.68878E-03	48.34	Tol.	LU-172
	36	1155.88	1.02192E-02	46.31		
	37	1207.74	5.13889E-03	55.42	Sum	
	38	1238.45	2.90905E-02	15.32		
M	39	1377.82	1.99659E-02	17.65		
m	40	1385.18	8.50197E-03	48.24		
	41	1408.40	1.21311E-02	31.81	Tol.	EU-152
M	43	1509.62	1.41806E-02	18.27		
m	44	1514.03	6.07986E-03	45.97		
	45	1644.05	5.27778E-03	22.94		
M	46	1656.82	3.01542E-03	26.06		
m	47	1661.45	7.32453E-03	27.74		
	48	1703.73	4.01910E-03	30.18	Sum	

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	49	1722.60	2.19011E-03	5.49		
m	50	1729.68	2.01475E-02	13.38	Sum	
	52	1847.96	8.94231E-03	33.37	Sum	
	53	1992.38	5.07275E-03	29.27		
	54	2104.93	2.22222E-03	35.36		
	55	2118.83	5.94017E-03	28.11		
	56	2192.07	2.22222E-03	35.36		
	58	2293.15	1.32937E-03	69.30	Sum	
	59	2447.41	8.86508E-03	20.78		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-7.45E-03	7.82E-01	7.82E-01
+	NA-22	1274.54		99.94	-1.12E-02	6.46E-02	6.46E-02
+	NA-24	1368.53		99.99	1.23E+17	5.08E+17	1.68E+18
		2754.09		99.86	-1.15E+17		5.08E+17
+	AL-26	1808.65		99.76	1.86E-02	5.18E-02	5.18E-02
+	K-40	1460.81	*	10.67	4.40E+00	1.12E+00	1.12E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	2.00E-02	5.58E-02	5.58E-02
		78.34		96.00	3.53E-01		7.81E-02
+	SC-46	889.25		99.98	8.05E-02	1.03E-01	1.03E-01
		1120.51		99.99	9.68E-01		2.61E-01
+	V-48	983.52		99.98	1.50E-02	3.88E-01	3.89E-01
		1312.10		97.50	5.63E-02		3.88E-01
+	CR-51	320.08		9.83	2.28E-01	1.44E+00	1.44E+00
+	MN-54	834.83		99.97	6.50E-03	7.65E-02	7.65E-02
+	CO-56	846.75		99.96	-2.30E-02	8.21E-02	8.21E-02
		1037.75		14.03	-4.05E-01		6.18E-01
		1238.25		67.00	4.45E-01		2.65E-01
		1771.40		15.51	-8.86E-02		5.93E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CO-56	2598.48		16.90	5.54E-02	8.21E-02	2.75E-01
+	CO-57	122.06		85.51	1.07E-02	6.21E-02	6.21E-02
		136.48		10.60	-1.66E-01		5.43E-01
+	CO-58	810.76		99.40	3.10E-03	9.91E-02	9.91E-02
+	FE-59	1099.22		56.50	-5.83E-02	1.95E-01	1.95E-01
		1291.56		43.20	1.45E-02		2.96E-01
+	CO-60	1173.22		100.00	3.89E-02	5.80E-02	7.79E-02
		1332.49		100.00	-4.22E-02		5.80E-02
+	ZN-65	1115.52		50.75	-8.09E-03	1.68E-01	1.68E-01
+	GA-67	93.31		35.70	2.13E+03	9.68E+02	9.68E+02
		208.95		2.24	-1.10E+02		1.32E+04
		300.22		16.00	4.89E+02		1.71E+03
+	SE-75	121.11		16.70	1.34E-01	1.10E-01	3.62E-01
		136.00		59.20	1.65E-02		1.10E-01
		264.65		59.80	4.75E-02		1.14E-01
		279.53		25.20	-4.02E-02		2.76E-01
		400.65		11.40	2.03E-02		6.06E-01
+	RB-82	776.52		13.00	-3.55E-01	1.22E+00	1.22E+00
+	RB-83	520.41		46.00	6.02E-03	1.48E-01	1.48E-01
		529.64		30.30	6.66E-02		2.21E-01
		552.65		16.40	-4.94E-02		3.87E-01
+	KR-85	513.99		0.43	-5.69E+00	1.26E+01	1.26E+01
+	SR-85	513.99		99.27	-3.80E-02	8.41E-02	8.41E-02
+	Y-88	898.02		93.40	3.76E-02	7.84E-02	1.03E-01
		1836.01		99.38	3.40E-02		7.84E-02
+	NB-93M	16.57		9.43	-4.95E+03	5.06E+03	5.06E+03
+	NB-94	702.63		100.00	2.79E-02	5.54E-02	6.57E-02
		871.10		100.00	-1.91E-02		5.54E-02
+	NB-95	765.79		99.81	4.36E-01	2.19E-01	2.19E-01
+	NB-95M	235.69		25.00	-2.04E+03	5.67E+02	5.67E+02
+	ZR-95	724.18		43.70	-2.38E-02	1.72E-01	2.33E-01
		756.72		55.30	9.25E-03		1.72E-01
+	MO-99	181.06		6.20	-4.02E+03	1.12E+04	2.28E+04
		739.58		12.80	-2.16E+02		1.12E+04
		778.00		4.50	-1.36E+04		2.98E+04
+	RU-103	497.08		89.00	3.11E-02	1.17E-01	1.17E-01
+	RU-106	621.84		9.80	-6.38E-02	5.84E-01	5.84E-01
+	AG-108M	433.93		89.90	2.62E-02	6.03E-02	6.03E-02
		614.37		90.40	-1.49E+00		8.41E-02
		722.95		90.50	-4.45E-02		7.00E-02
+	CD-109	88.03	*	3.72	2.27E+00	3.37E+00	3.37E+00
+	AG-110M	657.75		93.14	-2.66E-02	6.95E-02	6.95E-02
		677.61		10.53	-2.73E-01		5.72E-01
		706.67		16.46	-2.40E-02		4.36E-01
		763.93		21.98	1.66E-02		3.22E-01
		884.67		71.63	-2.89E-02		1.07E-01
		1384.27		23.94	1.16E-01		4.00E-01
+	CD-113M	263.70		0.02	5.84E+01	2.33E+02	2.33E+02

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		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		SN-113	255.12		1.93	2.22E-01	1.05E-01	3.75E+00
			391.69		64.90	-6.29E-02		1.05E-01
+		TE123M	159.00		84.10	3.92E-02	8.21E-02	8.21E-02
+		SB-124	602.71		97.87	2.48E-02	1.06E-01	1.06E-01
			645.85		7.26	-4.49E-01		1.22E+00
			722.78		11.10	-5.76E-01		9.07E-01
			1691.02		49.00	-5.26E-02		1.78E-01
+		I-125	35.49		6.49	-6.62E-01	5.32E+00	5.32E+00
+		SB-125	176.33		6.89	5.20E-01	1.91E-01	8.41E-01
			427.89		29.33	5.19E-02		1.91E-01
			463.38		10.35	7.22E-02		5.06E-01
			600.56		17.80	1.02E-01		3.79E-01
			635.90		11.32	2.65E-01		5.26E-01
+		SB-126	414.70		83.30	2.05E-03	5.78E-01	5.82E-01
			666.33		99.60	5.14E-01		6.76E-01
			695.00		99.60	-1.65E-01		5.78E-01
			720.50		53.80	7.13E-01		1.16E+00
+		SN-126	87.57	*	37.00	2.15E-01	3.19E-01	3.19E-01
+		SB-127	473.00		25.00	-5.11E+01	2.48E+02	2.67E+02
			685.20		35.70	1.07E+02		2.48E+02
			783.80		14.70	6.76E+02		7.26E+02
+		I-129	29.78		57.00	-2.28E-01	1.01E+00	1.01E+00
			33.60		13.20	-1.06E+00		2.11E+00
			39.58		7.52	1.08E-01		1.90E+00
+		I-131	284.30		6.05	-5.55E+00	1.80E+00	2.89E+01
			364.48		81.20	-9.83E-01		1.80E+00
			636.97		7.26	9.18E-01		2.51E+01
			722.89		1.80	-7.22E+01		1.14E+02
+		TE-132	49.72		13.10	-1.18E+02	3.24E+02	3.02E+03
			228.16		88.00	-4.31E+01		3.24E+02
+		BA-133	81.00		33.00	7.66E-02	8.66E-02	1.42E-01
			302.84		17.80	-1.78E-02		2.93E-01
			356.01		60.00	-2.02E-02		8.66E-02
+		I-133	529.87		86.30	-4.58E+12	5.36E+12	5.36E+12
+		CS-134	563.23		8.38	1.44E-01	8.26E-02	6.51E-01
			569.32		15.43	1.11E-01		3.51E-01
			604.70		97.60	2.58E-04		9.18E-02
			795.84		85.40	6.37E-02		8.26E-02
			801.93		8.73	2.24E-01		7.27E-01
+		CS-135	268.24		16.00	7.53E-03	3.65E-01	3.65E-01
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	-3.87E-01	5.18E-01	6.35E+00
			163.89		4.61	-1.38E+00		9.52E+00
			176.55		13.56	1.26E+00		3.42E+00
			273.65		12.66	1.14E-01		3.73E+00
			340.57		48.50	7.87E-02		9.42E-01
			818.50		99.70	1.08E-01		5.18E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CS-136	1048.07	79.60	3.23E-01	5.18E-01	6.82E-01
		1235.34	19.70	-2.43E-01		4.72E+00
+	CS-137	661.65	85.12	2.16E-02	7.14E-02	7.14E-02
+	LA-138	788.74	34.00	1.37E-01	9.62E-02	2.14E-01
		1435.80	66.00	3.07E-02		9.62E-02
+	CE-139	165.85	80.35	-3.97E-02	8.17E-02	8.17E-02
+	BA-140	162.64	6.70	-1.40E+00	1.88E+00	6.98E+00
		304.84	4.50	2.27E+00		1.02E+01
		423.70	3.20	-7.59E-01		1.52E+01
		437.55	2.00	5.86E-01		2.37E+01
		537.32	25.00	-1.77E-01		1.88E+00
+	LA-140	328.77	20.50	1.64E+00	7.00E-01	2.46E+00
		487.03	45.50	8.22E-01		1.09E+00
		815.85	23.50	-1.46E+00		2.15E+00
		1596.49	95.49	1.70E-01		7.00E-01
+	CE-141	145.44	48.40	2.48E-01	2.77E-01	2.77E-01
+	CE-143	57.36	11.80	-3.43E+08	1.66E+08	2.89E+08
		293.26	42.00	-5.21E+07		1.66E+08
		664.55	5.20	2.18E+08		9.42E+08
+	CE-144	133.54	10.80	5.32E-02	5.16E-01	5.16E-01
+	PM-144	476.78	42.00	-1.18E-03	6.01E-02	1.24E-01
		618.01	98.60	1.03E-02		6.37E-02
		696.49	99.49	-6.62E-02		6.01E-02
+	PM-145	36.85	21.70	-7.42E-02	4.41E-01	8.58E-01
		37.36	39.70	-3.81E-02		4.41E-01
		42.30	15.10	-9.01E-02		7.45E-01
		72.40	2.31	7.26E-01		2.16E+00
+	PM-146	453.90	39.94	4.66E-02	1.34E-01	1.34E-01
		735.90	14.01	-1.28E-01		3.99E-01
		747.13	13.10	-7.32E-03		4.35E-01
+	ND-147	91.11	28.90	4.77E-01	2.95E+00	2.95E+00
		531.02	13.10	-4.60E+00		4.47E+00
+	PM-149	285.90	3.10	3.75E+05	5.22E+05	5.22E+05
+	EU-152	121.78	20.50	4.03E-02	2.35E-01	2.35E-01
		244.69	5.40	-4.03E-02		1.19E+00
		344.27	19.13	8.32E-02		2.72E-01
		778.89	9.20	9.89E-03		6.22E-01
		964.01	10.40	-2.09E-01		7.39E-01
		1085.78	7.22	8.82E-02		9.57E-01
		1112.02	9.60	1.60E-01		7.65E-01
		1407.95	14.94	5.59E-01		7.11E-01
+	GD-153	97.43	31.30	5.50E-02	1.72E-01	1.72E-01
		103.18	22.20	3.36E-02		2.33E-01
+	EU-154	123.07	40.50	2.88E-02	1.20E-01	1.20E-01
		723.30	19.70	-2.06E-01		3.24E-01
		873.19	11.50	3.25E-02		5.30E-01
		996.32	10.30	-6.02E-01		6.80E-01
		1004.76	17.90	-2.48E-02		3.88E-01
		1274.45	35.50	-3.08E-02		1.78E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	EU-155	86.50		30.90	-2.17E-01	2.04E-01	2.04E-01
		105.30		20.70	4.52E-02		2.28E-01
+	EU-156	811.77		10.40	3.24E-01	3.61E+00	3.61E+00
		1153.47		7.20	5.42E+00		7.99E+00
		1230.71		8.90	-2.45E+00		4.87E+00
+	HO-166M	184.41		72.60	2.74E-02	1.04E-01	1.04E-01
		280.45		29.60	-2.71E-02		1.86E-01
		410.94		11.10	-5.68E-02		4.41E-01
		711.69		54.10	4.44E-02		1.18E-01
+	TM-171	66.72		0.14	8.48E+00	3.89E+01	3.89E+01
+	HF-172	81.75		4.52	4.86E-01	4.37E-01	1.02E+00
		125.81		11.30	-3.35E-01		4.37E-01
+	LU-172	181.53		20.60	-1.71E+01	6.77E+00	1.74E+01
		810.06		16.63	8.07E-01		2.58E+01
		912.12		15.25	5.35E+01		3.96E+01
		1093.66		62.50	1.95E+00		6.77E+00
+	LU-173	100.72		5.24	-1.12E-01	2.98E-01	9.15E-01
		272.11		21.20	-6.78E-02		2.98E-01
+	HF-175	343.40		84.00	7.66E-02	9.22E-02	9.22E-02
+	LU-176	88.34		13.30	8.89E-01	5.22E-02	4.81E-01
		201.83		86.00	-1.66E-02		6.62E-02
		306.78		94.00	-3.21E-02		5.22E-02
+	TA-182	67.75		41.20	5.87E-02	1.63E-01	1.63E-01
		1121.30		34.90	2.37E+00		6.75E-01
		1189.05		16.23	-2.18E-03		5.10E-01
		1221.41		26.98	-8.03E-02		3.17E-01
		1231.02		11.44	-1.64E-01		7.85E-01
+	IR-192	308.46		29.68	-6.11E-02	1.51E-01	2.45E-01
		468.07		48.10	4.43E-02		1.51E-01
+	HG-203	279.19		77.30	4.04E-02	1.32E-01	1.32E-01
+	BI-207	569.67		97.72	1.70E-02	5.36E-02	5.36E-02
		1063.62		74.90	-6.18E-03		8.72E-02
+	TL-208	583.14	*	30.22	5.11E-01	1.35E-01	2.86E-01
		860.37		4.48	1.10E+00		1.53E+00
		2614.66	*	35.85	2.00E-01		1.35E-01
+	BI-210M	262.00		45.00	1.46E-02	1.14E-01	1.14E-01
		300.00		23.00	6.46E-02		2.26E-01
+	PB-210	46.50	*	4.25	4.10E+00	3.57E+00	3.57E+00
+	PB-211	404.84		2.90	-3.34E-01	1.82E+00	1.82E+00
		831.96		2.90	4.88E-02		2.20E+00
+	BI-212	727.17		11.80	-1.10E-02	5.33E-01	5.33E-01
		1620.62		2.75	-1.49E+00		2.05E+00
+	PB-212	238.63		44.60	2.20E-01	1.70E-01	1.70E-01
		300.09		3.41	4.36E-01		1.53E+00
+	BI-214	609.31	*	46.30	3.91E+00	2.76E-01	2.76E-01
		1120.29	*	15.10	4.43E+00		6.55E-01
		1764.49	*	15.80	4.72E+00		4.72E-01
		2204.22	*	4.98	5.04E+00		4.42E-01

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PB-214	295.21	*	19.19	4.34E+00	2.08E-01	4.70E-01
		351.92	*	37.19	4.35E+00		2.08E-01
+	RN-219	401.80		6.50	-3.52E-01	8.26E-01	8.26E-01
+	RA-223	323.87		3.88	2.57E-01	1.34E+00	1.34E+00
+	RA-224	240.98		3.95	9.76E+00	2.46E+00	2.46E+00
+	RA-225	40.00		31.00	1.65E-01	2.93E+00	2.93E+00
+	RA-226	186.21	*	3.28	1.08E+01	3.00E+00	3.00E+00
+	TH-227	50.10		8.40	-3.40E-02	5.36E-01	8.72E-01
		236.00		11.50	-1.93E+00		5.36E-01
		256.20		6.30	1.36E-01		9.20E-01
+	AC-228	338.32	*	11.40	7.88E-01	4.10E-01	6.51E-01
		911.07	*	27.70	3.70E-01		4.10E-01
		969.11		16.60	1.23E-02		4.60E-01
+	TH-230	48.44		16.90	-6.51E-01	4.74E-01	4.74E-01
		62.85		4.60	3.28E+00		1.42E+00
		67.67		0.37	5.12E+00		1.43E+01
+	PA-231	283.67		1.60	-6.48E-01	2.25E+00	3.38E+00
		302.67		2.30	-1.36E-01		2.25E+00
+	TH-231	25.64		14.70	6.78E-01	1.82E+00	1.32E+01
		84.21	*	6.40	8.14E-01		1.82E+00
+	PA-233	311.98		38.60	6.17E-02	3.81E-01	3.81E-01
+	PA-234	131.20		20.40	7.67E-02	2.49E-01	2.49E-01
		733.99		8.80	1.79E-01		6.56E-01
		946.00		12.00	-2.31E-02		5.71E-01
+	PA-234M	1001.03		0.92	9.20E+00	8.86E+00	8.86E+00
+	TH-234	63.29	*	3.80	1.57E+00	2.84E+00	2.84E+00
+	U-235	143.76		10.50	5.53E-01	5.36E-01	5.36E-01
		163.35		4.70	-2.26E-01		1.12E+00
		205.31		4.70	2.37E-01		1.22E+00
+	NP-237	86.50		12.60	-5.23E-01	4.94E-01	4.94E-01
+	NP-239	106.10		22.70	-2.72E+03	2.91E+04	2.91E+04
		228.18		10.70	-9.52E+03		7.15E+04
		277.60		14.10	-1.12E+04		5.65E+04
+	AM-241	59.54		35.90	2.52E-02	1.56E-01	1.56E-01
+	AM-243	74.67		66.00	-2.00E-01	1.04E-01	1.04E-01
+	CM-243	209.75		3.29	1.43E+00	4.01E-01	1.71E+00
		228.14		10.60	-6.77E-02		5.08E-01
		277.60		14.00	-7.93E-02		4.01E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	7.82E-01	7.82E-01	-7.45E-03	3.69E-01
	NA-22	1274.54		99.94	6.46E-02	6.46E-02	-1.12E-02	2.93E-02
	NA-24	1368.53		99.99	1.68E+18	5.08E+17	1.23E+17	7.61E+17
		2754.09		99.86	5.08E+17		-1.15E+17	1.61E+17
	AL-26	1808.65		99.76	5.18E-02	5.18E-02	1.86E-02	2.23E-02
+	K-40	1460.81	*	10.67	1.12E+00	1.12E+00	4.40E+00	5.32E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.58E-02	5.58E-02	2.00E-02	2.73E-02
		78.34		96.00	7.81E-02		3.53E-01	3.85E-02
	SC-46	889.25		99.98	1.03E-01	1.03E-01	8.05E-02	4.86E-02
		1120.51		99.99	2.61E-01		9.68E-01	1.27E-01
	V-48	983.52		99.98	3.89E-01	3.88E-01	1.50E-02	1.81E-01
		1312.10		97.50	3.88E-01		5.63E-02	1.77E-01
	CR-51	320.08		9.83	1.44E+00	1.44E+00	2.28E-01	6.90E-01
	MN-54	834.83		99.97	7.65E-02	7.65E-02	6.50E-03	3.60E-02
	CO-56	846.75		99.96	8.21E-02	8.21E-02	-2.30E-02	3.81E-02
		1037.75		14.03	6.18E-01		-4.05E-01	2.84E-01
		1238.25		67.00	2.65E-01		4.45E-01	1.26E-01
		1771.40		15.51	5.93E-01		-8.86E-02	2.64E-01
		2598.48		16.90	2.75E-01		5.54E-02	1.07E-01
	CO-57	122.06		85.51	6.21E-02	6.21E-02	1.07E-02	3.03E-02
		136.48		10.60	5.43E-01		-1.66E-01	2.65E-01
	CO-58	810.76		99.40	9.91E-02	9.91E-02	3.10E-03	4.66E-02
	FE-59	1099.22		56.50	1.95E-01	1.95E-01	-5.83E-02	8.88E-02
		1291.56		43.20	2.96E-01		1.45E-02	1.35E-01
	CO-60	1173.22		100.00	7.79E-02	5.80E-02	3.89E-02	3.62E-02
		1332.49		100.00	5.80E-02		-4.22E-02	2.60E-02
	ZN-65	1115.52		50.75	1.68E-01	1.68E-01	-8.09E-03	7.83E-02
	GA-67	93.31		35.70	9.68E+02	9.68E+02	2.13E+03	4.76E+02
		208.95		2.24	1.32E+04		-1.10E+02	6.43E+03
		300.22		16.00	1.71E+03		4.89E+02	8.25E+02
	SE-75	121.11		16.70	3.62E-01	1.10E-01	1.34E-01	1.77E-01
		136.00		59.20	1.10E-01		1.65E-02	5.36E-02
		264.65		59.80	1.14E-01		4.75E-02	5.53E-02
		279.53		25.20	2.76E-01		-4.02E-02	1.33E-01
		400.65		11.40	6.06E-01		2.03E-02	2.90E-01
	RB-82	776.52		13.00	1.22E+00	1.22E+00	-3.55E-01	5.67E-01

Analysis Report for 1506114-16

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RB-83	520.41		46.00	1.48E-01	1.48E-01	6.02E-03	6.95E-02
		529.64		30.30	2.21E-01		6.66E-02	1.04E-01
		552.65		16.40	3.87E-01		-4.94E-02	1.81E-01
	KR-85	513.99		0.43	1.26E+01	1.26E+01	-5.69E+00	5.97E+00
	SR-85	513.99		99.27	8.41E-02	8.41E-02	-3.80E-02	3.99E-02
	Y-88	898.02		93.40	1.03E-01	7.84E-02	3.76E-02	4.83E-02
		1836.01		99.38	7.84E-02		3.40E-02	3.45E-02
	NB-93M	16.57		9.43	5.06E+03	5.06E+03	-4.95E+03	2.47E+03
	NB-94	702.63		100.00	6.57E-02	5.54E-02	2.79E-02	3.11E-02
		871.10		100.00	5.54E-02		-1.91E-02	2.56E-02
	NB-95	765.79		99.81	2.19E-01	2.19E-01	4.36E-01	1.05E-01
	NB-95M	235.69		25.00	5.67E+02	5.67E+02	-2.04E+03	2.76E+02
	ZR-95	724.18		43.70	2.33E-01	1.72E-01	-2.38E-02	1.10E-01
		756.72		55.30	1.72E-01		9.25E-03	8.06E-02
	MO-99	181.06		6.20	2.28E+04	1.12E+04	-4.02E+03	1.11E+04
		739.58		12.80	1.12E+04		-2.16E+02	5.20E+03
		778.00		4.50	2.98E+04		-1.36E+04	1.38E+04
	RU-103	497.08		89.00	1.17E-01	1.17E-01	3.11E-02	5.53E-02
	RU-106	621.84		9.80	5.84E-01	5.84E-01	-6.38E-02	2.74E-01
	AG-108M	433.93		89.90	6.03E-02	6.03E-02	2.62E-02	2.88E-02
		614.37		90.40	8.41E-02		-1.49E+00	4.03E-02
		722.95		90.50	7.00E-02		-4.45E-02	3.30E-02
+	CD-109	88.03	*	3.72	3.37E+00	3.37E+00	2.27E+00	1.67E+00
	AG-110M	657.75		93.14	6.95E-02	6.95E-02	-2.66E-02	3.27E-02
		677.61		10.53	5.72E-01		-2.73E-01	2.68E-01
		706.67		16.46	4.36E-01		-2.40E-02	2.06E-01
		763.93		21.98	3.22E-01		1.66E-02	1.51E-01
		884.67		71.63	1.07E-01		-2.89E-02	5.00E-02
		1384.27		23.94	4.00E-01		1.16E-01	1.86E-01
	CD-113M	263.70		0.02	2.33E+02	2.33E+02	5.84E+01	1.13E+02
	SN-113	255.12		1.93	3.75E+00	1.05E-01	2.22E-01	1.82E+00
		391.69		64.90	1.05E-01		-6.29E-02	5.00E-02
	TE123M	159.00		84.10	8.21E-02	8.21E-02	3.92E-02	4.01E-02
	SB-124	602.71		97.87	1.06E-01	1.06E-01	2.48E-02	5.05E-02
		645.85		7.26	1.22E+00		-4.49E-01	5.75E-01
		722.78		11.10	9.07E-01		-5.76E-01	4.27E-01
		1691.02		49.00	1.78E-01		-5.26E-02	7.76E-02
	I-125	35.49		6.49	5.32E+00	5.32E+00	-6.62E-01	2.59E+00
	SB-125	176.33		6.89	8.41E-01	1.91E-01	5.20E-01	4.10E-01
		427.89		29.33	1.91E-01		5.19E-02	9.12E-02
		463.38		10.35	5.06E-01		7.22E-02	2.40E-01
		600.56		17.80	3.79E-01		1.02E-01	1.80E-01
		635.90		11.32	5.26E-01		2.65E-01	2.48E-01
	SB-126	414.70		83.30	5.82E-01	5.78E-01	2.05E-03	2.77E-01
		666.33		99.60	6.76E-01		5.14E-01	3.22E-01
		695.00		99.60	5.78E-01		-1.65E-01	2.72E-01
		720.50		53.80	1.16E+00		7.13E-01	5.50E-01
+	SN-126	87.57	*	37.00	3.19E-01	3.19E-01	2.15E-01	1.58E-01
	SB-127	473.00		25.00	2.67E+02	2.48E+02	-5.11E+01	1.26E+02
		685.20		35.70	2.48E+02		1.07E+02	1.17E+02
		783.80		14.70	7.26E+02		6.76E+02	3.44E+02
	I-129	29.78		57.00	1.01E+00	1.01E+00	-2.28E-01	4.89E-01
		33.60		13.20	2.11E+00		-1.06E+00	1.02E+00

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
I-129	39.58	7.52	1.90E+00	1.01E+00	1.08E-01	9.26E-01
I-131	284.30	6.05	2.89E+01	1.80E+00	-5.55E+00	1.40E+01
	364.48	81.20	1.80E+00		-9.83E-01	8.56E-01
	636.97	7.26	2.51E+01		9.18E-01	1.18E+01
	722.89	1.80	1.14E+02		-7.22E+01	5.36E+01
TE-132	49.72	13.10	3.02E+03	3.24E+02	-1.18E+02	1.47E+03
	228.16	88.00	3.24E+02		-4.31E+01	1.57E+02
BA-133	81.00	33.00	1.42E-01	8.66E-02	7.66E-02	6.92E-02
	302.84	17.80	2.93E-01		-1.78E-02	1.41E-01
	356.01	60.00	8.66E-02		-2.02E-02	4.14E-02
I-133	529.87	86.30	5.36E+12	5.36E+12	-4.58E+12	2.51E+12
CS-134	563.23	8.38	6.51E-01	8.26E-02	1.44E-01	3.07E-01
	569.32	15.43	3.51E-01		1.11E-01	1.65E-01
	604.70	97.60	9.18E-02		2.58E-04	4.42E-02
	795.84	85.40	8.26E-02		6.37E-02	3.89E-02
	801.93	8.73	7.27E-01		2.24E-01	3.40E-01
CS-135	268.24	16.00	3.65E-01	3.65E-01	7.53E-03	1.77E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	6.35E+00	5.18E-01	-3.87E-01	3.11E+00
	163.89	4.61	9.52E+00		-1.38E+00	4.64E+00
	176.55	13.56	3.42E+00		1.26E+00	1.67E+00
	273.65	12.66	3.73E+00		1.14E-01	1.80E+00
	340.57	48.50	9.42E-01		7.87E-02	4.53E-01
	818.50	99.70	5.18E-01		1.08E-01	2.42E-01
	1048.07	79.60	6.82E-01		3.23E-01	3.15E-01
	1235.34	19.70	4.72E+00		-2.43E-01	2.24E+00
CS-137	661.65	85.12	7.14E-02	7.14E-02	2.16E-02	3.37E-02
LA-138	788.74	34.00	2.14E-01	9.62E-02	1.37E-01	1.01E-01
	1435.80	66.00	9.62E-02		3.07E-02	4.33E-02
CE-139	165.85	80.35	8.17E-02	8.17E-02	-3.97E-02	3.98E-02
BA-140	162.64	6.70	6.98E+00	1.88E+00	-1.40E+00	3.41E+00
	304.84	4.50	1.02E+01		2.27E+00	4.90E+00
	423.70	3.20	1.52E+01		-7.59E-01	7.25E+00
	437.55	2.00	2.37E+01		5.86E-01	1.13E+01
	537.32	25.00	1.88E+00		-1.77E-01	8.88E-01
LA-140	328.77	20.50	2.46E+00	7.00E-01	1.64E+00	1.18E+00
	487.03	45.50	1.09E+00		8.22E-01	5.19E-01
	815.85	23.50	2.15E+00		-1.46E+00	9.98E-01
	1596.49	95.49	7.00E-01		1.70E-01	3.19E-01
CE-141	145.44	48.40	2.77E-01	2.77E-01	2.48E-01	1.36E-01
CE-143	57.36	11.80	2.89E+08	1.66E+08	-3.43E+08	1.41E+08
	293.26	42.00	1.66E+08		-5.21E+07	8.13E+07
	664.55	5.20	9.42E+08		2.18E+08	4.49E+08
CE-144	133.54	10.80	5.16E-01	5.16E-01	5.32E-02	2.52E-01
PM-144	476.78	42.00	1.24E-01	6.01E-02	-1.18E-03	5.86E-02
	618.01	98.60	6.37E-02		1.03E-02	3.01E-02
	696.49	99.49	6.01E-02		-6.62E-02	2.81E-02
PM-145	36.85	21.70	8.58E-01	4.41E-01	-7.42E-02	4.17E-01
	37.36	39.70	4.41E-01		-3.81E-02	2.14E-01
	42.30	15.10	7.45E-01		-9.01E-02	3.62E-01
	72.40	2.31	2.16E+00		7.26E-01	1.05E+00

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
PM-146	453.90	39.94	1.34E-01	1.34E-01	4.66E-02	6.38E-02
	735.90	14.01	3.99E-01		-1.28E-01	1.86E-01
	747.13	13.10	4.35E-01		-7.32E-03	2.03E-01
ND-147	91.11	28.90	2.95E+00	2.95E+00	4.77E-01	1.45E+00
	531.02	13.10	4.47E+00		-4.60E+00	2.10E+00
PM-149	285.90	3.10	5.22E+05	5.22E+05	3.75E+05	2.52E+05
EU-152	121.78	20.50	2.35E-01	2.35E-01	4.03E-02	1.15E-01
	244.69	5.40	1.19E+00		-4.03E-02	5.78E-01
	344.27	19.13	2.72E-01		8.32E-02	1.30E-01
	778.89	9.20	6.22E-01		9.89E-03	2.90E-01
	964.01	10.40	7.39E-01		-2.09E-01	3.47E-01
	1085.78	7.22	9.57E-01		8.82E-02	4.43E-01
	1112.02	9.60	7.65E-01		1.60E-01	3.55E-01
	1407.95	14.94	7.11E-01		5.59E-01	3.35E-01
GD-153	97.43	31.30	1.72E-01	1.72E-01	5.50E-02	8.40E-02
	103.18	22.20	2.33E-01		3.36E-02	1.14E-01
EU-154	123.07	40.50	1.20E-01	1.20E-01	2.88E-02	5.86E-02
	723.30	19.70	3.24E-01		-2.06E-01	1.53E-01
	873.19	11.50	5.30E-01		3.25E-02	2.47E-01
	996.32	10.30	6.80E-01		-6.02E-01	3.17E-01
	1004.76	17.90	3.88E-01		-2.48E-02	1.81E-01
	1274.45	35.50	1.78E-01		-3.08E-02	8.09E-02
EU-155	86.50	30.90	2.04E-01	2.04E-01	-2.17E-01	1.00E-01
	105.30	20.70	2.28E-01		4.52E-02	1.12E-01
EU-156	811.77	10.40	3.61E+00	3.61E+00	3.24E-01	1.68E+00
	1153.47	7.20	7.99E+00		5.42E+00	3.76E+00
	1230.71	8.90	4.87E+00		-2.45E+00	2.24E+00
HO-166M	184.41	72.60	1.04E-01	1.04E-01	2.74E-02	5.09E-02
	280.45	29.60	1.86E-01		-2.71E-02	9.00E-02
	410.94	11.10	4.41E-01		-5.68E-02	2.10E-01
	711.69	54.10	1.18E-01		4.44E-02	5.57E-02
TM-171	66.72	0.14	3.89E+01	3.89E+01	8.48E+00	1.90E+01
HF-172	81.75	4.52	1.02E+00	4.37E-01	4.86E-01	5.00E-01
	125.81	11.30	4.37E-01		-3.35E-01	2.13E-01
LU-172	181.53	20.60	1.74E+01	6.77E+00	-1.71E+01	8.50E+00
	810.06	16.63	2.58E+01		8.07E-01	1.21E+01
	912.12	15.25	3.96E+01		5.35E+01	1.88E+01
	1093.66	62.50	6.77E+00		1.95E+00	3.12E+00
LU-173	100.72	5.24	9.15E-01	2.98E-01	-1.12E-01	4.47E-01
	272.11	21.20	2.98E-01		-6.78E-02	1.44E-01
HF-175	343.40	84.00	9.22E-02	9.22E-02	7.66E-02	4.42E-02
LU-176	88.34	13.30	4.81E-01	5.22E-02	8.89E-01	2.37E-01
	201.83	86.00	6.62E-02		-1.66E-02	3.22E-02
	306.78	94.00	5.22E-02		-3.21E-02	2.51E-02
TA-182	67.75	41.20	1.63E-01	1.63E-01	5.87E-02	7.98E-02
	1121.30	34.90	6.75E-01		2.37E+00	3.28E-01
	1189.05	16.23	5.10E-01		-2.18E-03	2.34E-01
	1221.41	26.98	3.17E-01		-8.03E-02	1.45E-01
	1231.02	11.44	7.85E-01		-1.64E-01	3.61E-01
IR-192	308.46	29.68	2.45E-01	1.51E-01	-6.11E-02	1.18E-01
	468.07	48.10	1.51E-01		4.43E-02	7.16E-02
HG-203	279.19	77.30	1.32E-01	1.32E-01	4.04E-02	6.40E-02
BI-207	569.67	97.72	5.36E-02	5.36E-02	1.70E-02	2.52E-02

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-207	1063.62		74.90	8.72E-02	5.36E-02	-6.18E-03	4.02E-02
+	TL-208	583.14	*	30.22	2.86E-01	1.35E-01	5.11E-01	1.38E-01
		860.37		4.48	1.53E+00		1.10E+00	7.17E-01
		2614.66	*	35.85	1.35E-01		2.00E-01	5.75E-02
	BI-210M	262.00		45.00	1.14E-01	1.14E-01	1.46E-02	5.52E-02
		300.00		23.00	2.26E-01		6.46E-02	1.09E-01
+	PB-210	46.50	*	4.25	3.57E+00	3.57E+00	4.10E+00	1.76E+00
	PB-211	404.84		2.90	1.82E+00	1.82E+00	-3.34E-01	8.69E-01
		831.96		2.90	2.20E+00		4.88E-02	1.03E+00
	BI-212	727.17		11.80	5.33E-01	5.33E-01	-1.10E-02	2.51E-01
		1620.62		2.75	2.05E+00		-1.49E+00	9.01E-01
	PB-212	238.63		44.60	1.70E-01	1.70E-01	2.20E-01	8.32E-02
		300.09		3.41	1.53E+00		4.36E-01	7.35E-01
+	BI-214	609.31	*	46.30	2.76E-01	2.76E-01	3.91E+00	1.35E-01
		1120.29	*	15.10	6.55E-01		4.43E+00	3.10E-01
		1764.49	*	15.80	4.72E-01		4.72E+00	2.14E-01
		2204.22	*	4.98	4.42E-01		5.04E+00	1.45E-01
+	PB-214	295.21	*	19.19	4.70E-01	2.08E-01	4.34E+00	2.30E-01
		351.92	*	37.19	2.08E-01		4.35E+00	1.01E-01
	RN-219	401.80		6.50	8.26E-01	8.26E-01	-3.52E-01	3.95E-01
	RA-223	323.87		3.88	1.34E+00	1.34E+00	2.57E-01	6.46E-01
	RA-224	240.98		3.95	2.46E+00	2.46E+00	9.76E+00	1.21E+00
	RA-225	40.00		31.00	2.93E+00	2.93E+00	1.65E-01	1.42E+00
+	RA-226	186.21	*	3.28	3.00E+00	3.00E+00	1.08E+01	1.48E+00
	TH-227	50.10		8.40	8.72E-01	5.36E-01	-3.40E-02	4.25E-01
		236.00		11.50	5.36E-01		-1.93E+00	2.61E-01
		256.20		6.30	9.20E-01		1.36E-01	4.46E-01
+	AC-228	338.32	*	11.40	6.51E-01	4.10E-01	7.88E-01	3.16E-01
		911.07	*	27.70	4.10E-01		3.70E-01	1.97E-01
		969.11		16.60	4.60E-01		1.23E-02	2.16E-01
	TH-230	48.44		16.90	4.74E-01	4.74E-01	-6.51E-01	2.31E-01
		62.85		4.60	1.42E+00		3.28E+00	6.97E-01
		67.67		0.37	1.43E+01		5.12E+00	6.97E+00
	PA-231	283.67		1.60	3.38E+00	2.25E+00	-6.48E-01	1.63E+00
		302.67		2.30	2.25E+00		-1.36E-01	1.08E+00
+	TH-231	25.64		14.70	1.32E+01	1.82E+00	6.78E-01	6.44E+00
		84.21	*	6.40	1.82E+00		8.14E-01	9.02E-01
	PA-233	311.98		38.60	3.81E-01	3.81E-01	6.17E-02	1.83E-01
	PA-234	131.20		20.40	2.49E-01	2.49E-01	7.67E-02	1.22E-01
		733.99		8.80	6.56E-01		1.79E-01	3.07E-01
		946.00		12.00	5.71E-01		-2.31E-02	2.66E-01
	PA-234M	1001.03		0.92	8.86E+00	8.86E+00	9.20E+00	4.17E+00
+	TH-234	63.29	*	3.80	2.84E+00	2.84E+00	1.57E+00	1.40E+00
	U-235	143.76		10.50	5.36E-01	5.36E-01	5.53E-01	2.62E-01
		163.35		4.70	1.12E+00		-2.26E-01	5.48E-01
		205.31		4.70	1.22E+00		2.37E-01	5.93E-01
	NP-237	86.50		12.60	4.94E-01	4.94E-01	-5.23E-01	2.43E-01
	NP-239	106.10		22.70	2.91E+04	2.91E+04	-2.72E+03	1.42E+04
		228.18		10.70	7.15E+04		-9.52E+03	3.47E+04
		277.60		14.10	5.65E+04		-1.12E+04	2.73E+04
	AM-241	59.54		35.90	1.56E-01	1.56E-01	2.52E-02	7.60E-02
	AM-243	74.67		66.00	1.04E-01	1.04E-01	-2.00E-01	5.13E-02
	CM-243	209.75		3.29	1.71E+00	4.01E-01	1.43E+00	8.31E-01

Analysis Report for 1506114-16

FEEBRIS1D-13.093-094

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CM-243	228.14	10.60	5.08E-01	4.01E-01	-6.77E-02	2.47E-01
	277.60	14.00	4.01E-01		-7.93E-02	1.94E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-13.093-094

Elapsed Live time: 3600
Elapsed Real Time: 3602

Channel								
1:	0	0	0	0	0	0	0	198
9:	558	1079	969	429	672	1813	359	203
17:	172	165	152	139	134	151	142	137
25:	146	145	125	137	133	108	123	124
33:	115	132	124	147	129	140	150	163
41:	143	155	157	152	159	215	352	167
49:	176	175	156	172	173	192	145	127
57:	132	149	190	183	179	192	284	397
65:	186	183	207	238	209	200	211	228
73:	199	286	635	367	724	646	229	213
81:	209	195	163	279	179	169	305	324
89:	176	254	188	247	485	207	169	140
97:	152	142	124	119	116	110	131	110
105:	145	119	117	126	122	123	133	139
113:	141	142	113	104	120	109	116	113
121:	107	135	129	113	115	115	107	117
129:	132	145	115	124	112	119	141	115
137:	123	125	127	143	114	115	129	181
145:	149	132	116	121	130	147	115	120
153:	125	155	150	125	116	116	125	121
161:	112	98	114	120	87	104	105	121
169:	121	93	89	105	83	122	111	94
177:	112	112	105	83	101	113	101	116
185:	138	471	281	114	101	89	86	94
193:	92	73	111	77	95	100	98	92
201:	94	104	88	92	100	103	82	79
209:	98	99	79	77	62	68	79	75
217:	72	61	91	69	65	71	68	70
225:	73	72	78	61	69	73	73	76
233:	71	76	71	91	80	129	237	99
241:	128	429	207	68	61	55	65	62
249:	62	52	61	62	57	70	55	76
257:	80	70	75	50	51	46	63	56
265:	52	67	54	53	72	89	78	64
273:	52	60	73	54	66	58	50	64
281:	54	53	53	54	50	54	57	32
289:	30	53	46	52	55	113	695	521
297:	53	44	37	56	39	49	43	45
305:	43	37	48	34	31	48	43	39
313:	38	47	47	43	48	43	46	44
321:	28	40	32	44	48	39	45	37
329:	43	63	48	36	40	35	50	40
337:	54	68	58	45	27	31	47	40
345:	40	25	36	35	50	43	311	1326
353:	451	43	40	21	38	31	32	32
361:	25	27	21	20	33	26	36	29

369:	43	25	43	36	24	33	31	31

Sample Title: FEEBRIS1D-13.093-094

Channel								
377:	40	28	40	38	42	31	39	31
385:	26	26	28	31	47	35	30	31
393:	41	24	35	26	22	35	38	28
401:	30	38	31	31	36	30	23	29
409:	24	31	23	26	22	20	34	18
417:	41	28	30	32	30	25	31	24
425:	33	39	30	32	21	27	24	27
433:	32	28	27	30	15	30	35	25
441:	25	26	26	25	24	23	21	18
449:	13	26	29	26	25	23	34	20
457:	15	21	20	23	19	21	29	24
465:	22	23	20	17	22	26	17	14
473:	20	20	23	20	16	19	20	20
481:	19	24	18	21	24	20	33	31
489:	21	15	17	18	18	17	27	23
497:	17	15	22	22	15	11	14	22
505:	13	21	10	16	28	37	56	46
513:	23	16	13	14	22	18	13	19
521:	20	19	15	19	13	17	23	13
529:	13	20	15	14	13	35	20	19
537:	23	13	24	24	13	17	21	20
545:	7	17	20	16	18	16	18	12
553:	14	10	15	13	13	23	13	18
561:	17	18	24	20	12	19	14	15
569:	19	20	20	13	15	13	22	17
577:	14	7	19	25	17	29	61	49
585:	14	16	23	10	15	16	15	20
593:	19	12	16	20	25	11	20	17
601:	24	15	19	14	17	23	17	125
609:	772	608	88	14	12	9	20	14
617:	15	18	12	9	9	13	15	8
625:	13	13	15	11	19	17	12	8
633:	10	11	9	20	10	13	19	5
641:	14	15	14	8	7	16	15	11
649:	12	12	16	19	10	9	13	9
657:	16	13	12	12	12	24	14	8
665:	30	35	17	12	14	6	11	12
673:	14	9	11	9	11	18	9	4
681:	11	15	11	16	12	11	12	18
689:	10	16	12	23	8	14	10	10
697:	9	13	8	21	12	15	19	9
705:	18	12	12	12	14	13	16	13
713:	14	12	11	9	6	14	19	13
721:	15	17	14	11	8	12	20	15
729:	12	10	10	11	12	11	10	9
737:	9	8	6	14	9	10	6	11
745:	9	13	11	7	6	9	11	10
753:	12	13	12	11	15	8	7	17
761:	5	10	12	4	7	19	25	70
769:	70	19	9	13	13	7	3	8
777:	9	9	6	10	7	14	14	10
785:	20	30	18	12	9	7	8	12
793:	7	19	20	18	6	5	14	6

801:	6	15	7	9	13	28	24	13

Sample Title: FEEBRIS1D-13.093-094

Channel								
809:	5	10	10	14	6	7	13	4
817:	7	9	12	11	13	10	11	8
825:	8	9	9	8	9	7	10	13
833:	17	6	10	13	11	17	19	18
841:	8	17	10	10	8	6	8	8
849:	6	10	10	11	10	12	8	5
857:	10	10	10	14	9	12	14	5
865:	9	8	4	7	5	10	5	6
873:	5	11	11	11	9	11	9	13
881:	8	13	12	5	11	16	10	14
889:	13	12	9	14	7	7	11	4
897:	13	16	12	20	10	11	14	9
905:	9	10	17	5	9	25	41	25
913:	12	14	11	10	4	12	8	7
921:	10	18	7	6	10	6	12	9
929:	8	8	5	8	27	47	33	14
937:	6	7	10	2	9	10	11	9
945:	13	11	7	11	5	13	7	9
953:	13	3	7	9	4	9	5	11
961:	7	12	5	19	16	9	14	19
969:	18	12	5	4	8	8	10	12
977:	12	10	7	6	8	9	9	13
985:	7	9	11	6	10	4	8	9
993:	7	13	1	6	8	13	15	16
1001:	23	13	3	5	4	6	7	8
1009:	5	13	7	4	8	2	8	8
1017:	3	9	13	10	10	4	5	10
1025:	5	5	8	11	16	8	3	13
1033:	4	5	8	9	8	5	7	2
1041:	9	11	2	5	5	7	5	5
1049:	7	9	12	7	5	9	6	2
1057:	10	10	7	7	4	8	10	9
1065:	5	6	6	7	5	13	8	5
1073:	4	8	10	4	6	7	6	9
1081:	7	14	4	4	9	8	10	4
1089:	8	1	6	4	8	12	8	8
1097:	3	6	5	6	4	5	9	7
1105:	7	7	4	7	7	12	6	4
1113:	10	7	12	5	12	13	47	173
1121:	134	26	5	2	10	9	8	5
1129:	10	11	4	9	4	11	4	4
1137:	6	6	4	7	3	8	6	4
1145:	13	11	7	9	8	8	6	8
1153:	5	13	20	28	7	8	6	7
1161:	10	5	6	9	6	10	8	6
1169:	8	14	9	11	6	6	9	4
1177:	3	7	5	9	3	5	1	4
1185:	6	2	8	2	5	6	10	7
1193:	6	7	9	3	11	4	10	8
1201:	8	4	3	6	3	7	12	11
1209:	8	3	6	4	11	5	6	6
1217:	5	10	5	4	5	6	7	4
1225:	8	8	4	8	4	3	10	7

1233:	7	6	12	9	28	50	36	13

Sample Title: FEEBRIS1D-13.093-094

Channel								
1241:	2	10	5	4	6	5	4	7
1249:	10	3	8	8	10	11	7	3
1257:	6	4	3	6	10	7	5	2
1265:	4	6	5	5	14	4	6	1
1273:	8	6	5	3	4	2	4	12
1281:	14	8	4	7	4	2	11	8
1289:	6	5	4	1	6	9	4	5
1297:	5	13	8	5	2	7	6	8
1305:	5	5	3	8	6	3	5	5
1313:	6	5	5	4	3	6	6	5
1321:	7	2	6	4	7	4	5	5
1329:	5	3	4	4	6	1	2	5
1337:	9	3	4	4	3	3	7	3
1345:	3	4	2	8	5	7	6	4
1353:	3	3	5	4	4	1	5	6
1361:	5	4	6	4	3	7	5	3
1369:	4	5	4	6	1	5	3	15
1377:	26	39	13	3	5	7	9	11
1385:	12	12	1	6	5	8	2	5
1393:	4	4	2	3	4	6	5	12
1401:	13	8	11	4	9	3	21	28
1409:	17	5	6	4	5	4	2	5
1417:	3	5	6	4	8	3	6	5
1425:	3	1	4	6	2	2	4	2
1433:	4	3	3	5	6	5	3	2
1441:	2	3	8	1	2	3	6	3
1449:	3	4	6	4	3	4	4	3
1457:	4	4	14	63	110	36	8	7
1465:	3	5	4	5	6	4	3	6
1473:	2	0	4	5	6	4	4	9
1481:	6	5	0	6	2	1	4	3
1489:	4	5	7	8	4	3	5	4
1497:	2	1	5	2	10	5	3	1
1505:	1	4	7	13	22	14	7	3
1513:	10	8	4	7	6	7	10	6
1521:	3	4	4	5	4	1	1	4
1529:	2	8	6	3	6	5	3	3
1537:	4	9	4	2	5	4	10	4
1545:	3	2	3	0	4	4	1	3
1553:	4	4	1	4	3	3	3	3
1561:	0	2	2	0	4	4	3	1
1569:	1	4	2	2	1	0	5	2
1577:	4	1	3	3	3	5	4	8
1585:	2	3	6	7	6	6	5	7
1593:	4	2	4	4	5	3	3	3
1601:	0	3	3	3	2	2	5	0
1609:	2	4	2	4	1	6	1	2
1617:	3	3	2	2	2	2	2	0
1625:	5	3	4	5	2	2	1	1
1633:	3	4	1	2	1	0	0	3
1641:	2	0	2	5	4	3	0	0
1649:	3	1	3	2	0	1	1	4
1657:	0	4	5	6	11	7	3	1

1665:	0	1	2	0	1	2	0	2

Sample Title: FEEBRIS1D-13.093-094

Channel								
1673:	5	2	2	2	3	1	3	1
1681:	1	2	0	3	3	0	0	1
1689:	2	1	2	3	2	5	2	1
1697:	4	2	1	0	2	3	5	4
1705:	2	0	0	2	2	3	2	3
1713:	2	4	0	2	1	3	0	2
1721:	0	4	1	1	3	3	6	10
1729:	29	16	10	1	1	0	1	1
1737:	3	6	1	2	3	2	6	0
1745:	2	0	0	2	0	0	1	3
1753:	0	1	1	3	0	0	3	2
1761:	3	9	45	109	95	23	5	1
1769:	4	3	1	2	5	0	1	2
1777:	2	2	4	1	1	2	0	1
1785:	1	1	3	0	0	2	0	2
1793:	0	0	2	2	3	0	2	0
1801:	2	0	0	2	2	2	1	1
1809:	1	3	0	1	0	0	2	3
1817:	2	0	1	1	1	2	1	1
1825:	0	0	3	0	2	0	1	1
1833:	0	0	2	4	3	2	5	0
1841:	3	1	2	1	3	7	16	12
1849:	5	1	1	0	1	3	2	1
1857:	3	0	0	1	1	2	0	2
1865:	0	1	2	3	0	0	3	2
1873:	0	1	2	2	1	3	1	0
1881:	2	2	2	3	1	1	2	0
1889:	0	6	2	1	1	1	1	2
1897:	1	1	0	1	1	0	0	0
1905:	2	1	1	3	1	1	3	0
1913:	0	2	3	2	1	2	2	1
1921:	0	3	1	2	3	1	0	2
1929:	0	1	1	2	3	2	3	3
1937:	1	1	2	1	0	1	0	2
1945:	3	1	1	1	0	2	2	0
1953:	2	2	3	3	1	3	0	1
1961:	1	1	1	2	0	3	0	0
1969:	1	2	1	0	1	1	0	1
1977:	1	0	0	2	1	1	0	1
1985:	1	0	1	3	2	1	1	5
1993:	2	5	1	0	0	0	2	1
2001:	2	1	0	2	2	0	1	1
2009:	1	2	2	1	1	0	1	1
2017:	3	1	2	1	1	2	4	1
2025:	3	3	2	4	1	0	0	1
2033:	1	2	1	1	0	0	1	2
2041:	0	1	1	1	3	1	0	1
2049:	0	0	1	1	3	1	0	0
2057:	0	0	0	1	0	1	1	1
2065:	3	0	1	0	1	2	0	0
2073:	2	0	0	0	0	1	1	2
2081:	1	0	1	1	0	3	0	0
2089:	1	0	1	0	1	1	0	2

2097:	1	2	0	0	0	0	3	2

Sample Title: FEEBRIS1D-13.093-094

Channel								
2105:	1	2	0	0	3	4	0	1
2113:	1	1	1	2	6	6	6	3
2121:	0	0	2	0	0	2	0	1
2129:	2	0	2	0	0	2	1	1
2137:	1	1	0	1	1	1	0	1
2145:	0	0	0	3	0	3	2	0
2153:	1	0	1	4	0	0	0	0
2161:	0	2	0	1	0	1	2	0
2169:	4	1	0	1	1	1	1	0
2177:	0	1	1	1	1	2	1	1
2185:	1	2	0	0	0	3	2	1
2193:	1	1	0	0	1	0	0	1
2201:	4	12	19	28	20	4	1	3
2209:	0	0	0	2	0	3	1	2
2217:	1	1	1	4	0	1	0	1
2225:	1	1	1	0	0	1	2	2
2233:	0	0	0	0	0	0	0	2
2241:	1	0	1	0	1	3	0	1
2249:	1	0	2	0	0	0	0	2
2257:	0	2	0	0	0	2	0	1
2265:	1	0	0	0	1	0	0	1
2273:	1	1	0	0	2	1	0	2
2281:	0	1	0	2	1	0	1	0
2289:	0	0	0	4	3	0	0	0
2297:	0	0	0	0	0	1	0	1
2305:	1	0	1	0	0	0	0	1
2313:	3	1	0	1	0	0	0	0
2321:	0	0	0	0	1	1	2	1
2329:	2	1	1	1	0	2	2	1
2337:	1	1	1	1	2	1	0	1
2345:	1	0	0	0	0	0	0	0
2353:	0	0	1	0	0	0	2	1
2361:	1	0	3	0	1	0	1	1
2369:	0	2	2	0	0	0	0	3
2377:	0	0	1	1	1	1	0	0
2385:	0	0	1	0	0	0	0	0
2393:	1	0	0	0	0	2	2	0
2401:	0	0	1	0	0	0	1	0
2409:	0	0	0	2	1	0	2	0
2417:	1	1	2	1	0	0	0	0
2425:	1	0	0	0	0	0	1	0
2433:	0	0	0	1	1	1	0	0
2441:	0	1	1	2	1	6	13	8
2449:	1	1	1	0	1	0	1	1
2457:	2	0	2	0	0	1	0	0
2465:	1	0	0	1	0	1	0	0
2473:	0	0	0	0	1	0	0	0
2481:	0	0	1	1	1	0	0	0
2489:	0	0	0	0	0	1	0	0
2497:	0	0	1	2	0	0	0	0
2505:	0	0	0	0	0	0	0	1
2513:	0	0	0	1	0	0	2	1
2521:	1	1	0	0	0	0	0	1

2529:	0	0	0	0	0	1	0	0

Sample Title: FEEBRIS1D-13.093-094

Channel								
2537:	1	1	0	0	0	2	0	1
2545:	0	0	0	0	1	0	0	0
2553:	0	1	0	0	0	0	0	0
2561:	2	0	0	0	0	0	0	0
2569:	0	0	0	1	0	0	0	0
2577:	1	1	0	1	1	0	0	0
2585:	1	1	0	1	1	0	0	0
2593:	0	1	0	1	0	0	0	0
2601:	1	1	1	0	0	0	0	0
2609:	0	1	1	3	9	13	7	3
2617:	0	2	0	2	0	0	1	0
2625:	1	0	0	0	1	0	0	0
2633:	0	1	0	0	0	0	0	1
2641:	1	0	0	1	0	0	0	0
2649:	0	0	1	1	0	0	0	0
2657:	0	0	0	0	0	0	1	0
2665:	0	0	0	0	1	0	0	1
2673:	0	0	0	0	1	0	1	0
2681:	0	0	0	0	1	0	1	0
2689:	0	0	0	1	0	1	1	0
2697:	0	0	0	1	0	0	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	1	0	0	0	1	0
2721:	0	0	0	0	1	1	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	1	0	0	0	0	0
2745:	2	0	0	0	0	1	0	0
2753:	0	0	0	0	0	0	0	1
2761:	0	0	0	0	1	0	0	1
2769:	0	0	0	0	0	0	0	0
2777:	1	0	0	0	0	0	0	0
2785:	0	0	0	0	0	0	1	0
2793:	0	1	0	1	0	0	0	0
2801:	0	0	0	0	0	0	0	1
2809:	0	0	0	1	0	0	0	0
2817:	0	2	0	0	0	0	0	0
2825:	0	0	0	0	0	0	1	0
2833:	2	0	0	0	0	1	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	1	0	0	0	0	1
2857:	1	0	0	2	1	0	0	0
2865:	1	1	0	0	0	0	0	0
2873:	1	0	1	0	0	0	1	1
2881:	1	0	0	0	0	0	1	0
2889:	1	0	0	0	0	0	0	0
2897:	0	0	0	0	2	1	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	1	0	0	0	0	0
2929:	0	1	0	0	0	0	1	0
2937:	0	0	0	0	0	0	0	0
2945:	0	1	1	0	0	0	0	0
2953:	1	0	1	2	0	0	1	0

2961:	0	0	2	0	0	0	0	0

Sample Title: FEEBRIS1D-13.093-094

Channel								
2969:	0	1	0	0	0	1	0	0
2977:	1	1	0	1	0	0	0	1
2985:	0	1	0	1	1	1	0	0
2993:	0	0	1	0	0	0	0	0
3001:	1	0	0	0	0	0	0	1
3009:	0	0	0	0	0	1	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	1	1	0	0	1	0	0	0
3049:	0	0	0	1	0	0	1	0
3057:	0	0	0	2	0	1	0	0
3065:	0	1	0	0	0	0	0	0
3073:	0	1	1	0	0	1	0	0
3081:	1	0	2	0	0	0	0	1
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	1	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	1	0	0	0
3121:	1	0	0	0	0	0	0	1
3129:	0	1	0	0	0	0	1	0
3137:	0	0	0	1	0	0	0	0
3145:	1	0	0	0	1	0	1	0
3153:	0	0	0	0	1	0	1	0
3161:	0	0	1	0	0	0	0	0
3169:	0	0	0	0	0	0	0	1
3177:	0	0	0	0	0	0	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	1
3201:	0	0	0	0	0	1	1	0
3209:	0	0	0	0	1	0	0	0
3217:	0	0	0	0	0	1	0	1
3225:	0	0	1	1	0	0	0	0
3233:	0	0	0	1	0	0	0	0
3241:	0	0	1	0	0	0	0	1
3249:	0	1	0	0	0	0	1	0
3257:	1	0	1	0	1	0	0	0
3265:	1	1	1	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	1	0	0	1
3289:	0	0	0	0	0	0	1	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	1	0	0	0	0
3329:	0	0	0	0	0	0	3	0
3337:	0	0	0	0	0	1	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	2	1	0	0	1
3369:	0	1	0	0	1	0	0	1
3377:	0	0	0	0	1	0	0	0
3385:	0	0	0	0	1	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-13.093-094

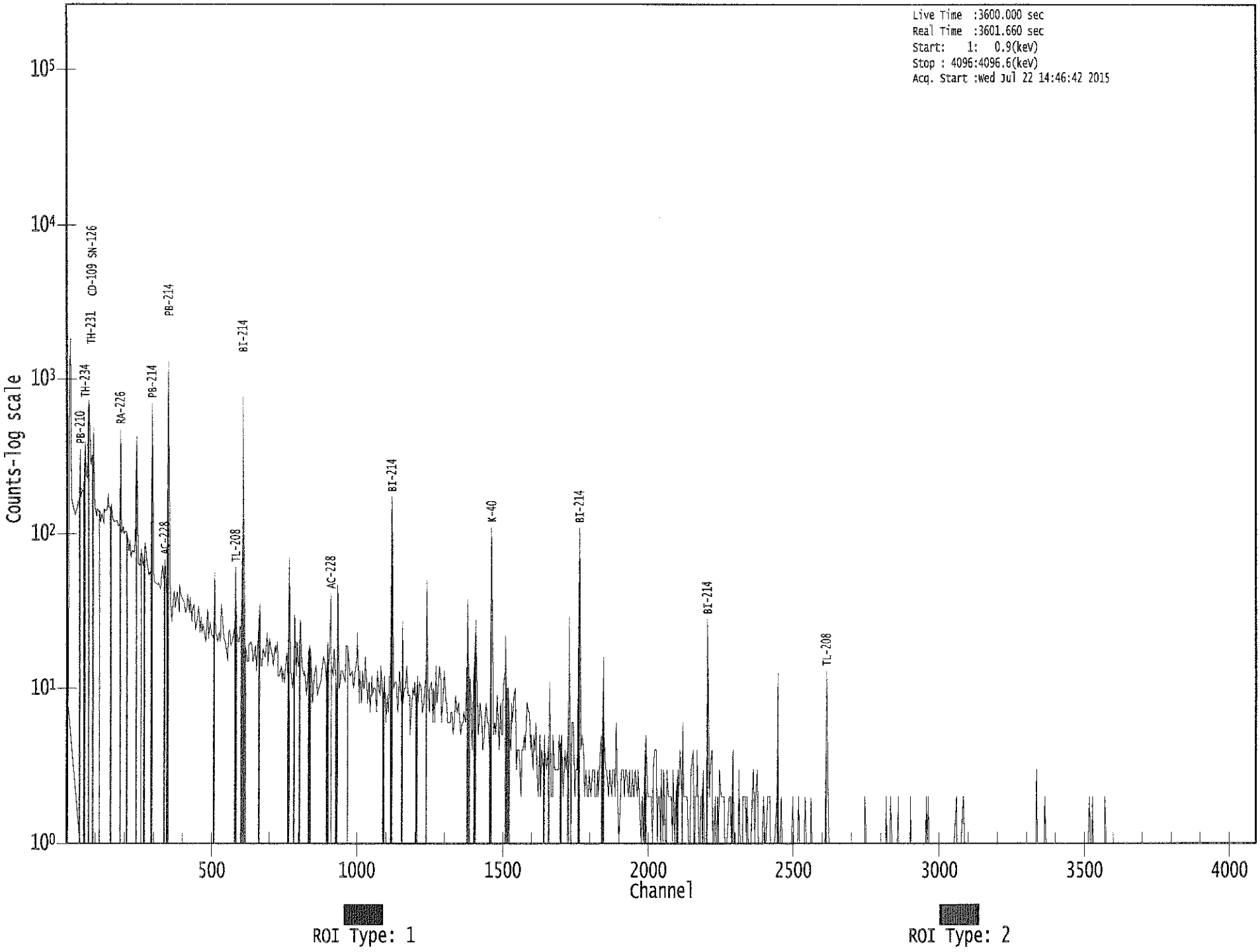
Channel								
3401:	1	0	0	0	0	0	1	0
3409:	0	1	0	0	1	0	0	1
3417:	0	1	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	1
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	1	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	1	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	1	0	0	0	0
3489:	0	0	1	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	1	0	0	0	2	0	0	0
3521:	0	0	0	0	1	0	0	2
3529:	0	1	0	0	0	0	0	0
3537:	1	0	1	1	0	0	0	1
3545:	0	0	0	0	0	0	0	0
3553:	0	1	0	0	1	1	1	0
3561:	0	0	0	0	0	0	0	0
3569:	0	2	0	0	0	0	1	0
3577:	0	0	1	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	1	0	0	0
3601:	0	1	0	0	0	0	0	0
3609:	0	0	0	0	0	1	1	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	1	0
3633:	0	1	0	0	1	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	1	0	0	1	0	0	0
3665:	0	1	0	0	0	0	0	0
3673:	0	0	1	1	0	1	1	0
3681:	0	1	1	0	0	1	1	1
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	1	0	0	0	0
3713:	0	1	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	1	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	1	0	0	0
3753:	0	0	0	0	0	1	0	0
3761:	0	0	0	0	0	0	1	0
3769:	0	0	0	0	0	0	0	1
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	0	1	0
3801:	0	0	0	0	0	1	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	1	0	0	1	0	0	0

Sample Title: FEEBRIS1D-13.093-094

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	1	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	1	0	0
3905:	0	1	0	0	1	0	0	0
3913:	0	0	0	0	0	1	0	0
3921:	0	0	0	0	1	1	1	0
3929:	0	0	0	0	0	1	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	1	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	1	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	1	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	1	0	0	0	0
4001:	1	0	0	0	0	0	1	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	1	0	0	0	0
4025:	0	0	0	0	0	0	1	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	1	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	1	0	0
4065:	0	0	0	0	0	0	0	1
4073:	0	1	0	0	0	0	0	0
4081:	1	0	0	0	0	0	0	0
4089:	0	0	0	0	2	0	0	0

0000025026.CNF



ICB 7/22/15

Apex-Gamma

Analysis Report for 1506114-17
FEEBRIS1D-13.085-086

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-17
Sample Description	: FEEBRIS1D-13.085-086
Sample Type	: SOIL
Sample Size	: 6.133E+02 grams
Facility	: Countroom
Sample Taken On	: 6/12/2015 7:44:05AM
Acquisition Started	: 7/22/2015 2:46:49PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3616.0 seconds
Dead Time	: 0.44 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25027

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 3:47:23PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	63.79	64.01	0.0000	0.00
2	73.48	73.70	0.0000	0.00
3	77.25	77.46	0.0000	0.00
4	89.64	89.85	0.0000	0.00
5	92.92	93.13	0.0000	0.00
6	144.73	144.91	0.0000	0.00
7	154.60	154.77	0.0000	0.00
8	185.60	185.75	0.0000	0.00
9	238.83	238.96	0.0000	0.00
10	242.05	242.17	0.0000	0.00
11	269.95	270.06	0.0000	0.00
12	277.25	277.36	0.0000	0.00
13	295.41	295.51	0.0000	0.00
14	300.39	300.48	0.0000	0.00
15	328.12	328.20	0.0000	0.00
16	338.50	338.58	0.0000	0.00
17	352.18	352.25	0.0000	0.00
18	410.42	410.47	0.0000	0.00
19	455.32	455.33	0.0000	0.00
20	463.90	463.91	0.0000	0.00
21	510.67	510.66	0.0000	0.00
22	583.36	583.31	0.0000	0.00
23	609.46	609.40	0.0000	0.00
24	631.99	631.92	0.0000	0.00
25	725.13	725.02	0.0000	0.00
26	738.43	738.31	0.0000	0.00
27	794.72	794.57	0.0000	0.00
28	860.66	860.49	0.0000	0.00
29	868.75	868.58	0.0000	0.00
30	911.48	911.29	0.0000	0.00
31	935.16	934.96	0.0000	0.00
32	962.26	962.04	0.0000	0.00
33	965.22	965.00	0.0000	0.00
34	969.09	968.87	0.0000	0.00
35	1054.40	1054.14	0.0000	0.00
36	1084.24	1083.97	0.0000	0.00
37	1116.81	1116.52	0.0000	0.00
38	1120.31	1120.02	0.0000	0.00
39	1238.44	1238.11	0.0000	0.00
40	1322.16	1321.79	0.0000	0.00
41	1332.53	1332.16	0.0000	0.00
42	1377.78	1377.39	0.0000	0.00

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1408.50	1408.10	0.0000	0.00
44	1415.64	1415.24	0.0000	0.00
45	1450.41	1449.99	0.0000	0.00
46	1461.02	1460.59	0.0000	0.00
47	1484.93	1484.50	0.0000	0.00
48	1556.58	1556.12	0.0000	0.00
49	1562.70	1562.25	0.0000	0.00
50	1567.27	1566.81	0.0000	0.00
51	1578.77	1578.30	0.0000	0.00
52	1601.00	1600.53	0.0000	0.00
53	1619.85	1619.38	0.0000	0.00
54	1764.60	1764.07	0.0000	0.00
55	1948.91	1948.32	0.0000	0.00
56	2118.64	2118.00	0.0000	0.00
57	2204.14	2203.48	0.0000	0.00
58	2614.57	2613.79	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 3:47:23PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	63.79	61	69	64.01	1.73E+02	118.36	2.06E+03	1.80
M	2	73.48	71	82	73.70	1.26E+02	80.57	1.22E+03	2.20
m	3	77.25	71	82	77.46	7.63E+02	112.86	1.53E+03	2.22
m	4	89.64	82	97	89.85	1.54E+02	73.03	8.70E+02	1.69
m	5	92.92	82	97	93.13	2.32E+02	81.37	9.57E+02	1.86
	6	144.73	139	150	144.91	1.62E+02	103.92	1.26E+03	6.17
	7	154.60	152	159	154.77	6.38E+01	72.50	8.36E+02	1.50
	8	185.60	180	190	185.75	2.01E+02	96.45	1.13E+03	2.00
M	9	238.83	229	246	238.96	7.34E+02	65.17	3.16E+02	1.75
m	10	242.05	229	246	242.17	1.77E+02	69.54	3.33E+02	1.89
	11	269.95	266	272	270.06	4.87E+01	49.41	4.07E+02	1.74
	12	277.25	274	282	277.36	5.41E+01	56.26	4.42E+02	2.21
	13	295.41	292	299	295.51	2.22E+02	59.16	4.43E+02	1.96
	14	300.39	299	304	300.48	3.39E+01	38.26	2.68E+02	1.53
	15	328.12	324	331	328.20	6.86E+01	45.12	2.89E+02	2.70
	16	338.50	335	344	338.58	1.74E+02	57.39	3.74E+02	1.94
	17	352.18	347	356	352.25	4.34E+02	71.39	4.80E+02	1.68
	18	410.42	406	415	410.47	4.52E+01	50.56	3.38E+02	3.66
	19	455.32	451	459	455.33	4.09E+01	41.39	2.38E+02	4.67
	20	463.90	460	468	463.91	6.01E+01	41.24	2.24E+02	1.55
	21	510.67	507	514	510.66	1.13E+02	40.10	1.94E+02	1.66
	22	583.36	579	587	583.31	1.89E+02	40.79	1.40E+02	2.05
	23	609.46	604	614	609.40	2.85E+02	54.36	2.41E+02	2.01
	24	631.99	630	634	631.92	1.88E+01	19.10	6.04E+01	2.96
	25	725.13	713	733	725.02	7.49E+01	59.73	2.56E+02	2.29
	26	738.43	734	745	738.31	4.27E+01	31.50	1.05E+02	9.48
	27	794.72	790	798	794.57	3.17E+01	29.64	1.13E+02	2.00
M	28	860.66	857	882	860.49	3.70E+01	19.36	3.62E+01	3.80
m	29	868.75	857	882	868.58	2.71E+01	25.39	6.05E+01	3.80
	30	911.48	906	915	911.29	1.14E+02	39.28	1.55E+02	1.83
	31	935.16	931	939	934.96	2.47E+01	25.87	8.26E+01	1.29
M	32	962.26	958	980	962.04	1.71E+01	25.62	7.35E+01	4.28
m	33	965.22	958	980	965.00	3.22E+01	23.41	5.81E+01	2.20
m	34	969.09	958	980	968.87	5.93E+01	25.85	5.98E+01	2.35
	35	1054.40	1052	1056	1054.14	1.30E+01	14.89	3.79E+01	2.70
	36	1084.24	1081	1087	1083.97	1.57E+01	20.61	6.46E+01	1.68
M	37	1116.81	1114	1128	1116.52	1.32E+01	11.66	2.43E+01	2.75
m	38	1120.31	1114	1128	1120.02	9.83E+01	26.46	5.14E+01	2.75
	39	1238.44	1234	1242	1238.11	4.31E+01	24.07	6.17E+01	4.83
	40	1322.16	1318	1325	1321.79	1.58E+01	18.11	4.45E+01	5.06

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1332.53	1328 -	1335	1332.16	2.15E+01	15.87	2.70E+01	3.81
	42	1377.78	1372 -	1382	1377.39	2.30E+01	24.15	6.40E+01	1.95
M	43	1408.50	1405 -	1418	1408.10	1.63E+01	11.75	1.80E+01	2.63
m	44	1415.64	1405 -	1418	1415.24	8.80E+00	13.56	2.40E+01	2.64
M	45	1450.41	1445 -	1466	1449.99	1.47E+01	14.73	3.94E+01	3.88
m	46	1461.02	1445 -	1466	1460.59	5.32E+02	47.26	1.72E+01	2.25
	47	1484.93	1482 -	1487	1484.50	8.00E+00	5.66	0.00E+00	1.32
	48	1556.58	1554 -	1558	1556.12	5.00E+00	6.36	4.00E+00	2.25
M	49	1562.70	1561 -	1571	1562.25	7.12E+00	3.87	4.74E-01	2.70
m	50	1567.27	1561 -	1571	1566.81	1.00E+01	10.58	1.45E+01	2.70
	51	1578.77	1575 -	1584	1578.30	1.11E+01	12.12	1.37E+01	1.27
	52	1601.00	1597 -	1603	1600.53	9.00E+00	8.51	6.00E+00	1.86
	53	1619.85	1615 -	1622	1619.38	8.00E+00	5.66	0.00E+00	1.33
	54	1764.60	1760 -	1768	1764.07	4.05E+01	14.85	9.00E+00	2.45
	55	1948.91	1944 -	1952	1948.32	6.94E+00	7.50	4.11E+00	1.11
	56	2118.64	2115 -	2120	2118.00	7.00E+00	5.29	0.00E+00	1.47
	57	2204.14	2201 -	2206	2203.48	9.43E+00	9.59	9.14E+00	2.18
	58	2614.57	2608 -	2618	2613.79	6.71E+01	17.61	5.70E+00	2.19

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 3:47:23PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	63.79	61 -	69	1.73E+02	118.36	2.06E+03	5.46E+01
M	2	73.48	71 -	82	1.26E+02	80.57	1.22E+03	5.74E+01
m	3	77.25	71 -	82	7.63E+02	112.86	1.53E+03	6.43E+01
m	4	89.64	82 -	97	1.54E+02	73.03	8.70E+02	4.85E+01
m	5	92.92	82 -	97	2.32E+02	81.37	9.57E+02	5.08E+01
	6	144.73	139 -	150	1.62E+02	103.92	1.26E+03	8.28E+01
	7	154.60	152 -	159	6.38E+01	72.50	8.36E+02	5.81E+01
	8	185.60	180 -	190	2.01E+02	96.45	1.13E+03	7.58E+01
M	9	238.83	229 -	246	7.34E+02	65.17	3.16E+02	2.92E+01
m	10	242.05	229 -	246	1.77E+02	69.54	3.33E+02	3.00E+01

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	11	269.95	266 -	272	4.87E+01	49.41	4.07E+02	3.90E+01
	12	277.25	274 -	282	5.41E+01	56.26	4.42E+02	4.46E+01
	13	295.41	292 -	299	2.22E+02	59.16	4.43E+02	4.20E+01
	14	300.39	299 -	304	3.39E+01	38.26	2.68E+02	3.00E+01
	15	328.12	324 -	331	6.86E+01	45.12	2.89E+02	3.45E+01
	16	338.50	335 -	344	1.74E+02	57.39	3.74E+02	4.19E+01
	17	352.18	347 -	356	4.34E+02	71.39	4.80E+02	4.76E+01
	18	410.42	406 -	415	4.52E+01	50.56	3.38E+02	4.01E+01
	19	455.32	451 -	459	4.09E+01	41.39	2.38E+02	3.24E+01
	20	463.90	460 -	468	6.01E+01	41.24	2.24E+02	3.14E+01
	21	510.67	507 -	514	1.13E+02	40.10	1.94E+02	2.79E+01
	22	583.36	579 -	587	1.89E+02	40.79	1.40E+02	2.48E+01
	23	609.46	604 -	614	2.85E+02	54.36	2.41E+02	3.50E+01
	24	631.99	630 -	634	1.88E+01	19.10	6.04E+01	1.40E+01
	25	725.13	713 -	733	7.49E+01	59.73	2.56E+02	1.73E+01
	26	738.43	734 -	745	4.27E+01	31.50	1.05E+02	2.36E+01
	27	794.72	790 -	798	3.17E+01	29.64	1.13E+02	2.25E+01
M	28	860.66	857 -	882	3.70E+01	19.36	3.62E+01	9.89E+00
m	29	868.75	857 -	882	2.71E+01	25.39	6.05E+01	1.28E+01
	30	911.48	906 -	915	1.14E+02	39.28	1.55E+02	2.71E+01
	31	935.16	931 -	939	2.47E+01	25.87	8.26E+01	1.96E+01
M	32	962.26	958 -	980	1.71E+01	25.62	7.35E+01	1.41E+01
m	33	965.22	958 -	980	3.22E+01	23.41	5.81E+01	1.25E+01
m	34	969.09	958 -	980	5.93E+01	25.85	5.98E+01	1.27E+01
	35	1054.40	1052 -	1056	1.30E+01	14.89	3.79E+01	1.07E+01
	36	1084.24	1081 -	1087	1.57E+01	20.61	6.46E+01	1.56E+01
M	37	1116.81	1114 -	1128	1.32E+01	11.66	2.43E+01	8.10E+00
m	38	1120.31	1114 -	1128	9.83E+01	26.46	5.14E+01	1.18E+01
	39	1238.44	1234 -	1242	4.31E+01	24.07	6.17E+01	1.66E+01
	40	1322.16	1318 -	1325	1.58E+01	18.11	4.45E+01	1.34E+01
	41	1332.53	1328 -	1335	2.15E+01	15.87	2.70E+01	1.06E+01
	42	1377.78	1372 -	1382	2.30E+01	24.15	6.40E+01	1.82E+01
M	43	1408.50	1405 -	1418	1.63E+01	11.75	1.80E+01	6.97E+00
m	44	1415.64	1405 -	1418	8.80E+00	13.56	2.40E+01	8.05E+00
M	45	1450.41	1445 -	1466	1.47E+01	14.73	3.94E+01	1.03E+01
m	46	1461.02	1445 -	1466	5.32E+02	47.26	1.72E+01	6.83E+00
	47	1484.93	1482 -	1487	8.00E+00	5.66	0.00E+00	0.00E+00
	48	1556.58	1554 -	1558	5.00E+00	6.36	4.00E+00	3.72E+00
M	49	1562.70	1561 -	1571	7.12E+00	3.87	4.74E-01	1.13E+00
m	50	1567.27	1561 -	1571	1.00E+01	10.58	1.45E+01	6.27E+00
	51	1578.77	1575 -	1584	1.11E+01	12.12	1.37E+01	8.32E+00
	52	1601.00	1597 -	1603	9.00E+00	8.51	6.00E+00	4.97E+00
	53	1619.85	1615 -	1622	8.00E+00	5.66	0.00E+00	0.00E+00
	54	1764.60	1760 -	1768	4.05E+01	14.85	9.00E+00	6.29E+00
	55	1948.91	1944 -	1952	6.94E+00	7.50	4.11E+00	4.39E+00
	56	2118.64	2115 -	2120	7.00E+00	5.29	0.00E+00	0.00E+00
	57	2204.14	2201 -	2206	9.43E+00	9.59	9.14E+00	6.06E+00
	58	2614.57	2608 -	2618	6.71E+01	17.61	5.70E+00	5.31E+00

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 3:47:23PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	63.79	61 -	69	64.01	1.73E+02	118.36	2.06E+03	TH-234
									TH-230
M	2	73.48	71 -	82	73.70	1.26E+02	80.57	1.22E+03	.....
m	3	77.25	71 -	82	77.46	7.63E+02	112.86	1.53E+03	.....
m	4	89.64	82 -	97	89.85	1.54E+02	73.03	8.70E+02	.....
m	5	92.92	82 -	97	93.13	2.32E+02	81.37	9.57E+02	GA-67
	6	144.73	139 -	150	144.91	1.62E+02	103.92	1.26E+03	CE-141
									U-235
	7	154.60	152 -	159	154.77	6.38E+01	72.50	8.36E+02	.....
	8	185.60	180 -	190	185.75	2.01E+02	96.45	1.13E+03	RA-226
M	9	238.83	229 -	246	238.96	7.34E+02	65.17	3.16E+02	PB-212
m	10	242.05	229 -	246	242.17	1.77E+02	69.54	3.33E+02	.....
	11	269.95	266 -	272	270.06	4.87E+01	49.41	4.07E+02	.....
	12	277.25	274 -	282	277.36	5.41E+01	56.26	4.42E+02	CM-243
									NP-239
	13	295.41	292 -	299	295.51	2.22E+02	59.16	4.43E+02	PB-214
	14	300.39	299 -	304	300.48	3.39E+01	38.26	2.68E+02	GA-67
									PB-212
									BI-210M
	15	328.12	324 -	331	328.20	6.86E+01	45.12	2.89E+02	LA-140
	16	338.50	335 -	344	338.58	1.74E+02	57.39	3.74E+02	AC-228
	17	352.18	347 -	356	352.25	4.34E+02	71.39	4.80E+02	PB-214
	18	410.42	406 -	415	410.47	4.52E+01	50.56	3.38E+02	HO-166M
	19	455.32	451 -	459	455.33	4.09E+01	41.39	2.38E+02	.....
	20	463.90	460 -	468	463.91	6.01E+01	41.24	2.24E+02	SB-125
	21	510.67	507 -	514	510.66	1.13E+02	40.10	1.94E+02	.....
	22	583.36	579 -	587	583.31	1.89E+02	40.79	1.40E+02	TL-208
	23	609.46	604 -	614	609.40	2.85E+02	54.36	2.41E+02	BI-214
	24	631.99	630 -	634	631.92	1.88E+01	19.10	6.04E+01	.....
	25	725.13	713 -	733	725.02	7.49E+01	59.73	2.56E+02	ZR-95

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	26	738.43	734 -	745	738.31	4.27E+01	31.50	1.05E+02	.....
	27	794.72	790 -	798	794.57	3.17E+01	29.64	1.13E+02	.....
M	28	860.66	857 -	882	860.49	3.70E+01	19.36	3.62E+01	TL-208
m	29	868.75	857 -	882	868.58	2.71E+01	25.39	6.05E+01	.....
	30	911.48	906 -	915	911.29	1.14E+02	39.28	1.55E+02	AC-228
									LU-172
	31	935.16	931 -	939	934.96	2.47E+01	25.87	8.26E+01	.....
M	32	962.26	958 -	980	962.04	1.71E+01	25.62	7.35E+01	.....
m	33	965.22	958 -	980	965.00	3.22E+01	23.41	5.81E+01	.....
m	34	969.09	958 -	980	968.87	5.93E+01	25.85	5.98E+01	AC-228
	35	1054.40	1052 -	1056	1054.14	1.30E+01	14.89	3.79E+01	.....
	36	1084.24	1081 -	1087	1083.97	1.57E+01	20.61	6.46E+01	.....
M	37	1116.81	1114 -	1128	1116.52	1.32E+01	11.66	2.43E+01	.....
m	38	1120.31	1114 -	1128	1120.02	9.83E+01	26.46	5.14E+01	BI-214
									SC-46
									TA-182
	39	1238.44	1234 -	1242	1238.11	4.31E+01	24.07	6.17E+01	CO-56
	40	1322.16	1318 -	1325	1321.79	1.58E+01	18.11	4.45E+01	.....
	41	1332.53	1328 -	1335	1332.16	2.15E+01	15.87	2.70E+01	CO-60
	42	1377.78	1372 -	1382	1377.39	2.30E+01	24.15	6.40E+01	.....
M	43	1408.50	1405 -	1418	1408.10	1.63E+01	11.75	1.80E+01	EU-152
m	44	1415.64	1405 -	1418	1415.24	8.80E+00	13.56	2.40E+01	.....
M	45	1450.41	1445 -	1466	1449.99	1.47E+01	14.73	3.94E+01	.....
m	46	1461.02	1445 -	1466	1460.59	5.32E+02	47.26	1.72E+01	K-40
	47	1484.93	1482 -	1487	1484.50	8.00E+00	5.66	0.00E+00	.....
	48	1556.58	1554 -	1558	1556.12	5.00E+00	6.36	4.00E+00	.....
M	49	1562.70	1561 -	1571	1562.25	7.12E+00	3.87	4.74E-01	.....
m	50	1567.27	1561 -	1571	1566.81	1.00E+01	10.58	1.45E+01	.....
	51	1578.77	1575 -	1584	1578.30	1.11E+01	12.12	1.37E+01	.....
	52	1601.00	1597 -	1603	1600.53	9.00E+00	8.51	6.00E+00	.....
	53	1619.85	1615 -	1622	1619.38	8.00E+00	5.66	0.00E+00	BI-212
	54	1764.60	1760 -	1768	1764.07	4.05E+01	14.85	9.00E+00	BI-214
	55	1948.91	1944 -	1952	1948.32	6.94E+00	7.50	4.11E+00	.....
	56	2118.64	2115 -	2120	2118.00	7.00E+00	5.29	0.00E+00	.....
	57	2204.14	2201 -	2206	2203.48	9.43E+00	9.59	9.14E+00	BI-214
	58	2614.57	2608 -	2618	2613.79	6.71E+01	17.61	5.70E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 3:47:23PM

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	63.79	1.73E+02	118.36	2.17E-02	1.72E-03
M	2	73.48	1.26E+02	80.57	2.35E-02	2.04E-03
m	3	77.25	7.63E+02	112.86	2.39E-02	2.17E-03
m	4	89.64	1.54E+02	73.03	2.44E-02	2.49E-03
m	5	92.92	2.32E+02	81.37	2.44E-02	2.41E-03
	6	144.73	1.62E+02	103.92	2.13E-02	1.62E-03
	7	154.60	6.38E+01	72.50	2.06E-02	1.57E-03
	8	185.60	2.01E+02	96.45	1.83E-02	1.42E-03
M	9	238.83	7.34E+02	65.17	1.52E-02	1.18E-03
m	10	242.05	1.77E+02	69.54	1.51E-02	1.17E-03
	11	269.95	4.87E+01	49.41	1.38E-02	1.04E-03
	12	277.25	5.41E+01	56.26	1.35E-02	1.01E-03
	13	295.41	2.22E+02	59.16	1.28E-02	9.74E-04
	14	300.39	3.39E+01	38.26	1.26E-02	9.67E-04
	15	328.12	6.86E+01	45.12	1.17E-02	9.27E-04
	16	338.50	1.74E+02	57.39	1.14E-02	9.13E-04
	17	352.18	4.34E+02	71.39	1.11E-02	8.93E-04
	18	410.42	4.52E+01	50.56	9.69E-03	8.19E-04
	19	455.32	4.09E+01	41.39	8.86E-03	7.74E-04
	20	463.90	6.01E+01	41.24	8.72E-03	7.65E-04
	21	510.67	1.13E+02	40.10	8.02E-03	7.19E-04
	22	583.36	1.89E+02	40.79	7.14E-03	6.46E-04
	23	609.46	2.85E+02	54.36	6.87E-03	6.20E-04
	24	631.99	1.88E+01	19.10	6.66E-03	5.97E-04
	25	725.13	7.49E+01	59.73	5.91E-03	5.16E-04
	26	738.43	4.27E+01	31.50	5.81E-03	5.05E-04
	27	794.72	3.17E+01	29.64	5.46E-03	4.59E-04
M	28	860.66	3.70E+01	19.36	5.09E-03	4.05E-04
m	29	868.75	2.71E+01	25.39	5.05E-03	3.99E-04
	30	911.48	1.14E+02	39.28	4.85E-03	3.72E-04
	31	935.16	2.47E+01	25.87	4.75E-03	3.68E-04
M	32	962.26	1.71E+01	25.62	4.63E-03	3.63E-04
m	33	965.22	3.22E+01	23.41	4.62E-03	3.62E-04
m	34	969.09	5.93E+01	25.85	4.60E-03	3.61E-04
	35	1054.40	1.30E+01	14.89	4.29E-03	3.46E-04
	36	1084.24	1.57E+01	20.61	4.19E-03	3.40E-04
M	37	1116.81	1.32E+01	11.66	4.09E-03	3.34E-04
m	38	1120.31	9.83E+01	26.46	4.08E-03	3.33E-04
	39	1238.44	4.31E+01	24.07	3.75E-03	3.09E-04
	40	1322.16	1.58E+01	18.11	3.56E-03	2.91E-04
	41	1332.53	2.15E+01	15.87	3.54E-03	2.89E-04
	42	1377.78	2.30E+01	24.15	3.45E-03	2.82E-04
M	43	1408.50	1.63E+01	11.75	3.39E-03	2.77E-04
m	44	1415.64	8.80E+00	13.56	3.37E-03	2.76E-04
M	45	1450.41	1.47E+01	14.73	3.31E-03	2.71E-04
m	46	1461.02	5.32E+02	47.26	3.29E-03	2.69E-04
	47	1484.93	8.00E+00	5.66	3.25E-03	2.66E-04
	48	1556.58	5.00E+00	6.36	3.14E-03	2.55E-04
M	49	1562.70	7.12E+00	3.87	3.13E-03	2.54E-04
m	50	1567.27	1.00E+01	10.58	3.12E-03	2.53E-04

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
51	1578.77	1.11E+01	12.12	3.10E-03	2.52E-04
52	1601.00	9.00E+00	8.51	3.07E-03	2.48E-04
53	1619.85	8.00E+00	5.66	3.04E-03	2.46E-04
54	1764.60	4.05E+01	14.85	2.86E-03	2.24E-04
55	1948.91	6.94E+00	7.50	2.67E-03	2.13E-04
56	2118.64	7.00E+00	5.29	2.52E-03	2.13E-04
57	2204.14	9.43E+00	9.59	2.46E-03	2.13E-04
58	2614.57	6.71E+01	17.61	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 3:47:23PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	63.79	1.73E+02	118.36	5.56E+01	4.78E+00	1.17E+02	1.18E+02
M	2	73.48	1.26E+02	80.57			1.26E+02	8.06E+01
m	3	77.25	7.63E+02	112.86	1.20E+01	3.96E+00	7.51E+02	1.13E+02
m	4	89.64	1.54E+02	73.03			1.54E+02	7.30E+01
m	5	92.92	2.32E+02	81.37	7.60E+01	2.07E+01	1.56E+02	8.40E+01
	6	144.73	1.62E+02	103.92	9.45E+00	6.13E+00	1.52E+02	1.04E+02
	7	154.60	6.38E+01	72.50			6.38E+01	7.25E+01
	8	185.60	2.01E+02	96.45	3.41E+01	6.16E+00	1.67E+02	9.67E+01
M	9	238.83	7.34E+02	65.17	1.57E+01	4.91E+00	7.18E+02	6.54E+01
m	10	242.05	1.77E+02	69.54			1.77E+02	6.95E+01
	11	269.95	4.87E+01	49.41			4.87E+01	4.94E+01
	12	277.25	5.41E+01	56.26			5.41E+01	5.63E+01
	13	295.41	2.22E+02	59.16	2.05E+00	6.38E+00	2.20E+02	5.95E+01
	14	300.39	3.39E+01	38.26			3.39E+01	3.83E+01
	15	328.12	6.86E+01	45.12			6.86E+01	4.51E+01
	16	338.50	1.74E+02	57.39			1.74E+02	5.74E+01
	17	352.18	4.34E+02	71.39	8.85E+00	4.53E+00	4.25E+02	7.15E+01
	18	410.42	4.52E+01	50.56			4.52E+01	5.06E+01
	19	455.32	4.09E+01	41.39			4.09E+01	4.14E+01
	20	463.90	6.01E+01	41.24			6.01E+01	4.12E+01
	21	510.67	1.13E+02	40.10	6.53E+01	5.06E+00	4.79E+01	4.04E+01
	22	583.36	1.89E+02	40.79	5.04E+00	3.45E+00	1.84E+02	4.09E+01

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	23	609.46	2.85E+02	54.36	8.51E+00	1.93E+00	2.77E+02	5.44E+01
	24	631.99	1.88E+01	19.10			1.88E+01	1.91E+01
	25	725.13	7.49E+01	59.73			7.49E+01	5.97E+01
	26	738.43	4.27E+01	31.50			4.27E+01	3.15E+01
	27	794.72	3.17E+01	29.64	8.87E-01	3.22E+00	3.08E+01	2.98E+01
M	28	860.66	3.70E+01	19.36			3.70E+01	1.94E+01
m	29	868.75	2.71E+01	25.39			2.71E+01	2.54E+01
	30	911.48	1.14E+02	39.28	2.74E+00	2.96E+00	1.12E+02	3.94E+01
	31	935.16	2.47E+01	25.87			2.47E+01	2.59E+01
M	32	962.26	1.71E+01	25.62			1.71E+01	2.56E+01
m	33	965.22	3.22E+01	23.41			3.22E+01	2.34E+01
m	34	969.09	5.93E+01	25.85	1.43E+00	2.58E+00	5.79E+01	2.60E+01
	35	1054.40	1.30E+01	14.89			1.30E+01	1.49E+01
	36	1084.24	1.57E+01	20.61			1.57E+01	2.06E+01
M	37	1116.81	1.32E+01	11.66			1.32E+01	1.17E+01
m	38	1120.31	9.83E+01	26.46			9.83E+01	2.65E+01
	39	1238.44	4.31E+01	24.07			4.31E+01	2.41E+01
	40	1322.16	1.58E+01	18.11			1.58E+01	1.81E+01
	41	1332.53	2.15E+01	15.87	3.81E+00	1.94E+00	1.77E+01	1.60E+01
	42	1377.78	2.30E+01	24.15			2.30E+01	2.41E+01
M	43	1408.50	1.63E+01	11.75			1.63E+01	1.17E+01
m	44	1415.64	8.80E+00	13.56			8.80E+00	1.36E+01
M	45	1450.41	1.47E+01	14.73			1.47E+01	1.47E+01
m	46	1461.02	5.32E+02	47.26	2.41E+00	1.70E+00	5.30E+02	4.73E+01
	47	1484.93	8.00E+00	5.66			8.00E+00	5.66E+00
	48	1556.58	5.00E+00	6.36			5.00E+00	6.36E+00
M	49	1562.70	7.12E+00	3.87			7.12E+00	3.87E+00
m	50	1567.27	1.00E+01	10.58			1.00E+01	1.06E+01
	51	1578.77	1.11E+01	12.12			1.11E+01	1.21E+01
	52	1601.00	9.00E+00	8.51			9.00E+00	8.51E+00
	53	1619.85	8.00E+00	5.66			8.00E+00	5.66E+00
	54	1764.60	4.05E+01	14.85			4.05E+01	1.48E+01
	55	1948.91	6.94E+00	7.50			6.94E+00	7.50E+00
	56	2118.64	7.00E+00	5.29			7.00E+00	5.29E+00
	57	2204.14	9.43E+00	9.59			9.43E+00	9.59E+00
	58	2614.57	6.71E+01	17.61			6.71E+01	1.76E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 3:47:23PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	63.79	1.73E+02	118.36	5.56E+01	4.78E+00	1.17E+02	1.18E+02
M	2	73.48	1.26E+02	80.57			1.26E+02	8.06E+01
m	3	77.25	7.63E+02	112.86	1.20E+01	3.96E+00	7.51E+02	1.13E+02
m	4	89.64	1.54E+02	73.03			1.54E+02	7.30E+01
m	5	92.92	2.32E+02	81.37	7.60E+01	2.07E+01	1.56E+02	8.40E+01
	6	144.73	1.62E+02	103.92	9.45E+00	6.13E+00	1.52E+02	1.04E+02
	7	154.60	6.38E+01	72.50			6.38E+01	7.25E+01
	8	185.60	2.01E+02	96.45	3.41E+01	6.16E+00	1.67E+02	9.67E+01
M	9	238.83	7.34E+02	65.17	1.57E+01	4.91E+00	7.18E+02	6.54E+01
m	10	242.05	1.77E+02	69.54			1.77E+02	6.95E+01
	11	269.95	4.87E+01	49.41			4.87E+01	4.94E+01
	12	277.25	5.41E+01	56.26			5.41E+01	5.63E+01
	13	295.41	2.22E+02	59.16	2.05E+00	6.38E+00	2.20E+02	5.95E+01
	14	300.39	3.39E+01	38.26			3.39E+01	3.83E+01
	15	328.12	6.86E+01	45.12			6.86E+01	4.51E+01
	16	338.50	1.74E+02	57.39			1.74E+02	5.74E+01
	17	352.18	4.34E+02	71.39	8.85E+00	4.53E+00	4.25E+02	7.15E+01
	18	410.42	4.52E+01	50.56			4.52E+01	5.06E+01
	19	455.32	4.09E+01	41.39			4.09E+01	4.14E+01
	20	463.90	6.01E+01	41.24			6.01E+01	4.12E+01
	21	510.67	1.13E+02	40.10	6.53E+01	5.06E+00	4.79E+01	4.04E+01
	22	583.36	1.89E+02	40.79	5.04E+00	3.45E+00	1.84E+02	4.09E+01
	23	609.46	2.85E+02	54.36	8.51E+00	1.93E+00	2.77E+02	5.44E+01
	24	631.99	1.88E+01	19.10			1.88E+01	1.91E+01
	25	725.13	7.49E+01	59.73			7.49E+01	5.97E+01
	26	738.43	4.27E+01	31.50			4.27E+01	3.15E+01
	27	794.72	3.17E+01	29.64	8.87E-01	3.22E+00	3.08E+01	2.98E+01
M	28	860.66	3.70E+01	19.36			3.70E+01	1.94E+01
m	29	868.75	2.71E+01	25.39			2.71E+01	2.54E+01
	30	911.48	1.14E+02	39.28	2.74E+00	2.96E+00	1.12E+02	3.94E+01
	31	935.16	2.47E+01	25.87			2.47E+01	2.59E+01
M	32	962.26	1.71E+01	25.62			1.71E+01	2.56E+01
m	33	965.22	3.22E+01	23.41			3.22E+01	2.34E+01
m	34	969.09	5.93E+01	25.85	1.43E+00	2.58E+00	5.79E+01	2.60E+01
	35	1054.40	1.30E+01	14.89			1.30E+01	1.49E+01
	36	1084.24	1.57E+01	20.61			1.57E+01	2.06E+01
M	37	1116.81	1.32E+01	11.66			1.32E+01	1.17E+01
m	38	1120.31	9.83E+01	26.46			9.83E+01	2.65E+01
	39	1238.44	4.31E+01	24.07			4.31E+01	2.41E+01
	40	1322.16	1.58E+01	18.11			1.58E+01	1.81E+01
	41	1332.53	2.15E+01	15.87	3.81E+00	1.94E+00	1.77E+01	1.60E+01

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	42	1377.78	2.30E+01	24.15			2.30E+01	2.41E+01
M	43	1408.50	1.63E+01	11.75			1.63E+01	1.17E+01
m	44	1415.64	8.80E+00	13.56			8.80E+00	1.36E+01
M	45	1450.41	1.47E+01	14.73			1.47E+01	1.47E+01
m	46	1461.02	5.32E+02	47.26	2.41E+00	1.70E+00	5.30E+02	4.73E+01
	47	1484.93	8.00E+00	5.66			8.00E+00	5.66E+00
	48	1556.58	5.00E+00	6.36			5.00E+00	6.36E+00
M	49	1562.70	7.12E+00	3.87			7.12E+00	3.87E+00
m	50	1567.27	1.00E+01	10.58			1.00E+01	1.06E+01
	51	1578.77	1.11E+01	12.12			1.11E+01	1.21E+01
	52	1601.00	9.00E+00	8.51			9.00E+00	8.51E+00
	53	1619.85	8.00E+00	5.66			8.00E+00	5.66E+00
	54	1764.60	4.05E+01	14.85			4.05E+01	1.48E+01
	55	1948.91	6.94E+00	7.50			6.94E+00	7.50E+00
	56	2118.64	7.00E+00	5.29			7.00E+00	5.29E+00
	57	2204.14	9.43E+00	9.59			9.43E+00	9.59E+00
	58	2614.57	6.71E+01	17.61			6.71E+01	1.76E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.993	1460.81	*	10.67	1.85E+01	2.27E+00
GA-67	0.430	93.31	*	35.70	1.16E+03	6.24E+03
		208.95		2.24		
		300.22	*	16.00	1.08E+03	5.93E+03
CE-141	0.916	145.44	*	48.40	4.27E-01	3.15E-01
TL-208	0.995	583.14	*	30.22	1.04E+00	2.51E-01
		860.37	*	4.48	1.98E+00	1.05E+00
		2614.66	*	35.85	1.02E+00	2.86E-01
PB-212	0.993	238.63	*	44.60	1.30E+00	1.55E-01
		300.09	*	3.41	9.62E-01	1.09E+00
BI-214	0.998	609.31	*	46.30	1.07E+00	2.30E-01
		1120.29	*	15.10	1.95E+00	5.50E-01
		1764.49	*	15.80	1.10E+00	4.12E-01
		2204.22	*	4.98	9.41E-01	9.61E-01

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.991	295.21	*	19.19	1.09E+00	3.08E-01
		351.92	*	37.19	1.27E+00	2.36E-01
RA-226	0.941	186.21	*	3.28	3.41E+00	6.54E+00
AC-228	0.986	338.32	*	11.40	1.63E+00	5.55E-01
		911.07	*	27.70	1.02E+00	3.67E-01
		969.11	*	16.60	9.27E-01	4.22E-01
TH-234	0.961	63.29	*	3.80	1.74E+00	1.76E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 3:47:23PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	2	73.48	3.49008E-02	32.06		
m	3	77.25	2.08645E-01	7.52		
m	4	89.64	4.27321E-02	23.74		
	7	154.60	1.77109E-02	56.85		
m	10	242.05	4.91273E-02	19.66		
	11	269.95	1.35367E-02	50.69		
	12	277.25	1.50253E-02	52.01	Tol.	NP-239 CM-243
	15	328.12	1.90571E-02	32.89		
	18	410.42	1.25519E-02	55.94	Tol.	HO-166M
	19	455.32	1.13741E-02	50.54		
	20	463.90	1.67022E-02	34.29	Tol.	SB-125
	21	510.67	1.33145E-02	42.16		
	24	631.99	5.21825E-03	50.83		
	25	725.13	2.08149E-02	39.86	Tol.	ZR-95
	26	738.43	1.18713E-02	36.85		
	27	794.72	8.55415E-03	48.41	Sum	
m	29	868.75	7.53247E-03	46.82		
	31	935.16	6.86027E-03	52.36	Sum	
M	32	962.26	4.76203E-03	74.72	Sum	
m	33	965.22	8.93897E-03	36.38		
	35	1054.40	3.62413E-03	57.07		

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	36	1084.24	4.36632E-03	65.56		
M	37	1116.81	3.67159E-03	44.11		
	39	1238.44	1.19857E-02	27.90	Tol.	CO-56
	40	1322.16	4.37865E-03	57.45	Sum	
	41	1332.53	4.91711E-03	45.17		
	42	1377.78	6.38889E-03	52.49		
M	43	1408.50	4.53514E-03	35.98	Tol.	EU-152
m	44	1415.64	2.44491E-03	77.06	Sum	
M	45	1450.41	4.07650E-03	50.19		
	47	1484.93	2.22222E-03	35.36		
	48	1556.58	1.38889E-03	63.64		
M	49	1562.70	1.97724E-03	27.21		
m	50	1567.27	2.78919E-03	52.70		
	51	1578.77	3.09414E-03	54.42	Sum	
	52	1601.00	2.50000E-03	47.30		
	53	1619.85	2.22222E-03	35.36	Tol.	BI-212
	55	1948.91	1.92901E-03	54.00		
	56	2118.64	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.85E+01	2.27E+00
GA-67	0.43	93.31	*	35.70	1.16E+03	6.24E+03
		208.95		2.24		
		300.22	*	16.00	1.08E+03	5.93E+03
CE-141	0.91	145.44	*	48.40	4.27E-01	3.15E-01
TL-208	0.99	583.14	*	30.22	1.04E+00	2.51E-01
		860.37	*	4.48	1.98E+00	1.05E+00
		2614.66	*	35.85	1.02E+00	2.86E-01
PB-212	0.99	238.63	*	44.60	1.30E+00	1.55E-01
		300.09	*	3.41	9.62E-01	1.09E+00

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.99	609.31	*	46.30	1.07E+00	2.30E-01
		1120.29	*	15.10	1.95E+00	5.50E-01
		1764.49	*	15.80	1.10E+00	4.12E-01
		2204.22	*	4.98	9.41E-01	9.61E-01
PB-214	0.99	295.21	*	19.19	1.09E+00	3.08E-01
		351.92	*	37.19	1.27E+00	2.36E-01
RA-226	0.94	186.21	*	3.28	3.41E+00	6.54E+00
AC-228	0.98	338.32	*	11.40	1.63E+00	5.55E-01
		911.07	*	27.70	1.02E+00	3.67E-01
		969.11	*	16.60	9.27E-01	4.22E-01
TH-234	0.96	63.29	*	3.80	1.74E+00	1.76E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.993	1.85E+01	2.27E+00	
GA-67	0.430	8.39E+02	4.44E+03	
CE-141	0.916	4.27E-01	3.15E-01	
TL-208	0.995	1.07E+00	1.86E-01	
PB-212	0.993	1.27E+00	1.54E-01	
BI-214	0.998	1.17E+00	1.85E-01	
PB-214	0.991	1.20E+00	1.87E-01	
RA-226	0.941	3.41E+00	6.54E+00	
AC-228	0.986	1.11E+00	2.48E-01	
TH-234	0.961	1.74E+00	1.76E+00	

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 3:47:23PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	2	73.48	3.49008E-02	32.06		
m	3	77.25	2.08645E-01	7.52		
m	4	89.64	4.27321E-02	23.74		
	7	154.60	1.77109E-02	56.85		
m	10	242.05	4.91273E-02	19.66		
	11	269.95	1.35367E-02	50.69		
	12	277.25	1.50253E-02	52.01	Tol.	NP-239 CM-243
	15	328.12	1.90571E-02	32.89		
	18	410.42	1.25519E-02	55.94	Tol.	HO-166M
	19	455.32	1.13741E-02	50.54		
	20	463.90	1.67022E-02	34.29	Tol.	SB-125
	21	510.67	1.33145E-02	42.16		
	24	631.99	5.21825E-03	50.83		
	25	725.13	2.08149E-02	39.86	Tol.	ZR-95
	26	738.43	1.18713E-02	36.85		
	27	794.72	8.55415E-03	48.41	Sum	
m	29	868.75	7.53247E-03	46.82		
	31	935.16	6.86027E-03	52.36	Sum	
M	32	962.26	4.76203E-03	74.72	Sum	
m	33	965.22	8.93897E-03	36.38		
	35	1054.40	3.62413E-03	57.07		
	36	1084.24	4.36632E-03	65.56		
M	37	1116.81	3.67159E-03	44.11		
	39	1238.44	1.19857E-02	27.90	Tol.	CO-56
	40	1322.16	4.37865E-03	57.45	Sum	
	41	1332.53	4.91711E-03	45.17		
	42	1377.78	6.38889E-03	52.49		
M	43	1408.50	4.53514E-03	35.98	Tol.	EU-152
m	44	1415.64	2.44491E-03	77.06	Sum	
M	45	1450.41	4.07650E-03	50.19		
	47	1484.93	2.22222E-03	35.36		
	48	1556.58	1.38889E-03	63.64		
M	49	1562.70	1.97724E-03	27.21		
m	50	1567.27	2.78919E-03	52.70		

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
51	1578.77	3.09414E-03	54.42	Sum	
52	1601.00	2.50000E-03	47.30		
53	1619.85	2.22222E-03	35.36	Tol.	BI-212
55	1948.91	1.92901E-03	54.00		
56	2118.64	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.23E-01	1.14E+00	1.14E+00
+	NA-22	1274.54		99.94	-3.82E-02	1.12E-01	1.12E-01
+	NA-24	1368.53		99.99	8.31E+17	1.36E+18	2.56E+18
		2754.09		99.86	1.47E+17		1.36E+18
+	AL-26	1808.65		99.76	1.91E-02	7.28E-02	7.28E-02
+	K-40	1460.81	*	10.67	1.85E+01	1.56E+00	1.56E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-9.84E-03	6.78E-02	6.78E-02
		78.34		96.00	1.94E-01		8.47E-02
+	SC-46	889.25		99.98	2.60E-02	1.29E-01	1.29E-01
		1120.51		99.99	3.20E-01		2.25E-01
+	V-48	983.52		99.98	3.74E-03	4.50E-01	4.50E-01
		1312.10		97.50	1.53E-02		5.60E-01
+	CR-51	320.08		9.83	8.32E-01	1.84E+00	1.84E+00
+	MN-54	834.83		99.97	1.73E-02	1.04E-01	1.04E-01
+	CO-56	846.75		99.96	-4.20E-02	1.17E-01	1.17E-01
		1037.75		14.03	-3.09E-01		8.65E-01
		1238.25		67.00	3.12E-01		2.87E-01
		1771.40		15.51	-1.51E-01		5.57E-01
		2598.48		16.90	4.60E-02		3.38E-01
+	CO-57	122.06		85.51	-6.90E-03	6.19E-02	6.19E-02
		136.48		10.60	3.76E-02		5.02E-01
+	CO-58	810.76		99.40	-5.12E-02	1.07E-01	1.07E-01
+	FE-59	1099.22		56.50	8.68E-02	2.96E-01	2.96E-01

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	FE-59	1291.56		43.20	-8.21E-02	2.96E-01	4.24E-01
+	CO-60	1173.22		100.00	1.16E-01	1.07E-01	1.25E-01
		1332.49		100.00	4.33E-02		1.07E-01
+	ZN-65	1115.52		50.75	-9.09E-03	1.97E-01	1.97E-01
+	GA-67	93.31	*	35.70	1.16E+03	1.94E+03	1.94E+03
		208.95		2.24	1.15E+04		1.66E+04
		300.22	*	16.00	1.08E+03		2.00E+03
+	SE-75	121.11		16.70	1.14E-01	1.03E-01	3.65E-01
		136.00		59.20	6.50E-03		1.03E-01
		264.65		59.80	-8.07E-03		1.32E-01
		279.53		25.20	-1.22E-01		3.13E-01
		400.65		11.40	1.90E-01		7.47E-01
+	RB-82	776.52		13.00	1.77E-01	2.00E+00	2.00E+00
+	RB-83	520.41		46.00	-3.61E-02	2.10E-01	2.10E-01
		529.64		30.30	-1.44E-03		3.19E-01
		552.65		16.40	1.59E-01		6.50E-01
+	KR-85	513.99		0.43	1.39E+00	2.23E+01	2.23E+01
+	SR-85	513.99		99.27	9.26E-03	1.49E-01	1.49E-01
+	Y-88	898.02		93.40	-1.85E-02	1.00E-01	1.18E-01
		1836.01		99.38	-2.31E-03		1.00E-01
+	NB-93M	16.57		9.43	-1.43E+01	7.99E+01	7.99E+01
+	NB-94	702.63		100.00	6.96E-02	8.56E-02	8.94E-02
		871.10		100.00	4.78E-03		8.56E-02
+	NB-95	765.79		99.81	1.33E-01	2.30E-01	2.30E-01
+	NB-95M	235.69		25.00	2.50E+03	9.85E+02	9.85E+02
+	ZR-95	724.18		43.70	-7.76E-02	2.44E-01	3.01E-01
		756.72		55.30	1.00E-01		2.44E-01
+	MO-99	181.06		6.20	-1.02E+04	1.63E+04	2.19E+04
		739.58		12.80	1.82E+03		1.63E+04
		778.00		4.50	5.61E+03		5.08E+04
+	RU-103	497.08		89.00	2.18E-02	1.61E-01	1.61E-01
+	RU-106	621.84		9.80	4.15E-03	8.69E-01	8.69E-01
+	AG-108M	433.93		89.90	-1.14E-02	7.86E-02	7.86E-02
		614.37		90.40	-1.43E-02		8.91E-02
		722.95		90.50	-1.26E-01		8.43E-02
+	CD-109	88.03		3.72	1.76E+00	1.88E+00	1.88E+00
+	AG-110M	657.75		93.14	-1.43E-02	9.39E-02	9.39E-02
		677.61		10.53	7.82E-02		8.04E-01
		706.67		16.46	-5.28E-02		5.54E-01
		763.93		21.98	-3.77E-01		4.56E-01
		884.67		71.63	5.99E-03		1.30E-01
		1384.27		23.94	5.41E-02		4.17E-01
+	CD-113M	263.70		0.02	-5.10E+01	2.71E+02	2.71E+02
+	SN-113	255.12		1.93	3.19E+00	1.39E-01	4.46E+00
		391.69		64.90	8.20E-02		1.39E-01
+	TE123M	159.00		84.10	-2.18E-02	7.22E-02	7.22E-02
+	SB-124	602.71		97.87	-1.72E-02	1.27E-01	1.27E-01
		645.85		7.26	6.60E-01		1.68E+00

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SB-124	722.78	11.10	-1.63E+00	1.27E-01	1.09E+00
		1691.02	49.00	-1.12E-03		2.14E-01
+	I-125	35.49	6.49	-4.40E-01	3.40E+00	3.40E+00
+	SB-125	176.33	6.89	2.26E-03	2.35E-01	7.62E-01
		427.89	29.33	3.92E-02		2.35E-01
		463.38	10.35	6.63E-01		8.16E-01
		600.56	17.80	9.72E-03		4.58E-01
		635.90	11.32	1.98E-01		6.75E-01
+	SB-126	414.70	83.30	3.82E-02	7.30E-01	8.30E-01
		666.33	99.60	-4.37E-01		7.30E-01
		695.00	99.60	-2.23E-01		7.57E-01
		720.50	53.80	2.01E-01		1.41E+00
+	SN-126	87.57	37.00	1.67E-01	1.78E-01	1.78E-01
+	SB-127	473.00	25.00	1.71E+02	3.04E+02	4.01E+02
		685.20	35.70	-1.01E+02		3.04E+02
		783.80	14.70	4.86E+01		8.61E+02
+	I-129	29.78	57.00	-1.16E-01	4.29E-01	4.29E-01
		33.60	13.20	8.73E-02		1.26E+00
		39.58	7.52	3.48E-02		1.36E+00
+	I-131	284.30	6.05	2.78E+00	2.56E+00	3.16E+01
		364.48	81.20	-4.05E-01		2.56E+00
		636.97	7.26	1.02E+01		3.19E+01
		722.89	1.80	-2.04E+02		1.37E+02
+	TE-132	49.72	13.10	-5.46E+03	3.85E+02	2.92E+03
		228.16	88.00	7.65E+01		3.85E+02
+	BA-133	81.00	33.00	-9.62E-01	1.52E-01	1.71E-01
		302.84	17.80	7.63E-03		3.76E-01
		356.01	60.00	-1.87E-02		1.52E-01
+	I-133	529.87	86.30	-3.68E+10	8.15E+12	8.15E+12
+	CS-134	563.23	8.38	2.07E-01	9.18E-02	9.29E-01
		569.32	15.43	-1.73E-01		4.13E-01
		604.70	97.60	-1.36E-02		9.18E-02
		795.84	85.40	6.03E-02		1.14E-01
		801.93	8.73	-1.29E-01		1.01E+00
+	CS-135	268.24	16.00	3.95E-01	4.28E-01	4.28E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	2.47E-01	5.68E-01	5.52E+00
		163.89	4.61	3.61E+00		9.49E+00
		176.55	13.56	-1.28E+00		3.10E+00
		273.65	12.66	-1.33E-01		4.52E+00
		340.57	48.50	1.38E+00		1.50E+00
		818.50	99.70	-3.76E-01		5.68E-01
		1048.07	79.60	-4.57E-01		8.53E-01
		1235.34	19.70	-2.61E-01		5.22E+00
+	CS-137	661.65	85.12	1.80E-02	9.87E-02	9.87E-02
+	LA-138	788.74	34.00	1.12E-01	1.22E-01	2.64E-01
		1435.80	66.00	-4.09E-03		1.22E-01

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CE-139	165.85		80.35	8.27E-03	7.95E-02	7.95E-02
+	BA-140	162.64		6.70	2.11E+00	2.71E+00	6.82E+00
		304.84		4.50	1.08E+00		1.23E+01
		423.70		3.20	-4.49E+00		1.88E+01
		437.55		2.00	1.91E+01		3.43E+01
		537.32		25.00	-5.39E-01		2.71E+00
+	LA-140	328.77		20.50	2.32E+00	7.68E-01	2.99E+00
		487.03		45.50	1.17E-01		1.37E+00
		815.85		23.50	-3.52E-03		2.69E+00
		1596.49		95.49	3.09E-02		7.68E-01
+	CE-141	145.44	*	48.40	4.27E-01	4.74E-01	4.74E-01
+	CE-143	57.36		11.80	1.71E+08	1.45E+08	3.77E+08
		293.26		42.00	-1.56E+07		1.45E+08
		664.55		5.20	4.57E+08		1.08E+09
+	CE-144	133.54		10.80	-3.49E-02	4.88E-01	4.88E-01
+	PM-144	476.78		42.00	-1.28E-01	8.55E-02	1.69E-01
		618.01		98.60	6.88E-03		8.55E-02
		696.49		99.49	-2.36E-02		8.55E-02
+	PM-145	36.85		21.70	3.04E-02	3.01E-01	5.78E-01
		37.36		39.70	-8.16E-02		3.01E-01
		42.30		15.10	-2.73E-01		6.06E-01
		72.40		2.31	-4.10E+00		3.28E+00
+	PM-146	453.90		39.94	1.17E-01	1.97E-01	1.97E-01
		735.90		14.01	1.76E-02		5.75E-01
		747.13		13.10	-2.49E-02		6.13E-01
+	ND-147	91.11		28.90	-9.17E-01	2.84E+00	2.84E+00
		531.02		13.10	-3.75E-01		6.89E+00
+	PM-149	285.90		3.10	5.90E+05	6.31E+05	6.31E+05
+	EU-152	121.78		20.50	-2.61E-02	2.34E-01	2.34E-01
		244.69		5.40	2.08E-02		1.41E+00
		344.27		19.13	9.71E-02		3.53E-01
		778.89		9.20	5.20E-01		9.90E-01
		964.01		10.40	-1.99E+00		1.04E+00
		1085.78		7.22	-8.52E-02		1.41E+00
		1112.02		9.60	1.41E-01		9.57E-01
		1407.95		14.94	9.45E-02		6.43E-01
+	GD-153	97.43		31.30	3.86E-02	1.75E-01	1.75E-01
		103.18		22.20	-1.82E-01		2.34E-01
+	EU-154	123.07		40.50	-1.78E-02	1.19E-01	1.19E-01
		723.30		19.70	-5.82E-01		3.91E-01
		873.19		11.50	-3.71E-01		7.09E-01
		996.32		10.30	-4.52E-01		8.16E-01
		1004.76		17.90	1.50E-02		5.35E-01
		1274.45		35.50	-1.05E-01		3.08E-01
+	EU-155	86.50		30.90	1.44E-01	2.13E-01	2.13E-01
		105.30		20.70	-8.74E-03		2.35E-01
+	EU-156	811.77		10.40	-2.46E-01	4.24E+00	4.24E+00
		1153.47		7.20	3.91E+00		8.74E+00
		1230.71		8.90	1.36E+00		7.78E+00

Analysis Report for 1506114-17

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	HO-166M	184.41		72.60	1.46E-01	9.24E-02	9.24E-02
		280.45		29.60	1.26E-02		2.05E-01
		410.94		11.10	4.59E-01		7.03E-01
		711.69		54.10	-1.13E-03		1.46E-01
+	TM-171	66.72		0.14	-8.17E+01	4.80E+01	4.80E+01
+	HF-172	81.75		4.52	-4.18E+00	4.44E-01	1.29E+00
		125.81		11.30	-1.31E-01		4.44E-01
+	LU-172	181.53		20.60	-1.62E+01	9.34E+00	1.72E+01
		810.06		16.63	-1.72E+01		2.79E+01
		912.12		15.25	1.36E+02		6.85E+01
		1093.66		62.50	1.98E+00		9.34E+00
+	LU-173	100.72		5.24	2.32E-01	3.37E-01	9.73E-01
		272.11		21.20	-9.67E-02		3.37E-01
+	HF-175	343.40		84.00	3.27E-02	1.23E-01	1.23E-01
+	LU-176	88.34		13.30	1.44E-01	6.79E-02	5.03E-01
		201.83		86.00	-5.25E-02		7.43E-02
		306.78		94.00	1.62E-02		6.79E-02
+	TA-182	67.75		41.20	-2.88E-02	1.98E-01	1.98E-01
		1121.30		34.90	5.77E-01		5.83E-01
		1189.05		16.23	1.88E-01		8.24E-01
		1221.41		26.98	5.87E-04		5.53E-01
		1231.02		11.44	3.91E-03		1.18E+00
+	IR-192	308.46		29.68	5.54E-02	2.12E-01	3.17E-01
		468.07		48.10	-3.34E-02		2.12E-01
+	HG-203	279.19		77.30	2.57E-02	1.52E-01	1.52E-01
+	BI-207	569.67		97.72	1.50E-03	6.52E-02	6.52E-02
		1063.62		74.90	9.14E-03		1.24E-01
+	TL-208	583.14	*	30.22	1.04E+00	2.03E-01	3.02E-01
		860.37	*	4.48	1.98E+00		4.02E+00
		2614.66	*	35.85	1.02E+00		2.03E-01
+	BI-210M	262.00		45.00	-1.12E-01	1.35E-01	1.35E-01
		300.00		23.00	-1.20E+00		2.94E-01
+	PB-210	46.50		4.25	7.68E-01	2.03E+00	2.03E+00
+	PB-211	404.84		2.90	4.71E-01	2.43E+00	2.43E+00
		831.96		2.90	-1.55E-01		2.99E+00
+	BI-212	727.17		11.80	4.17E-01	7.90E-01	7.90E-01
		1620.62		2.75	0.00E+00		2.44E+00
+	PB-212	238.63	*	44.60	1.30E+00	3.13E-01	3.13E-01
		300.09	*	3.41	9.62E-01		1.78E+00
+	BI-214	609.31	*	46.30	1.07E+00	2.83E-01	2.83E-01
		1120.29	*	15.10	1.95E+00		9.98E-01
		1764.49	*	15.80	1.10E+00		4.15E-01
		2204.22	*	4.98	9.41E-01		1.48E+00
+	PB-214	295.21	*	19.19	1.09E+00	2.94E-01	4.36E-01
		351.92	*	37.19	1.27E+00		2.94E-01
+	RN-219	401.80		6.50	1.04E-01	1.05E+00	1.05E+00
+	RA-223	323.87		3.88	4.64E-01	1.73E+00	1.73E+00
+	RA-224	240.98		3.95	1.69E+01	3.18E+00	3.18E+00

Analysis Report for 1506114-17

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-225	40.00		31.00	5.44E-02	2.13E+00	2.13E+00
+	RA-226	186.21	*	3.28	3.41E+00	3.18E+00	3.18E+00
+	TH-227	50.10		8.40	-1.59E+00	8.50E-01	8.50E-01
		236.00		11.50	2.37E+00		9.32E-01
		256.20		6.30	4.88E-01		1.05E+00
+	AC-228	338.32	*	11.40	1.63E+00	5.23E-01	8.13E-01
		911.07	*	27.70	1.02E+00		5.23E-01
		969.11	*	16.60	9.27E-01		1.33E+00
+	TH-230	48.44		16.90	3.34E-01	4.76E-01	4.76E-01
		62.85		4.60	1.76E+00		1.58E+00
		67.67		0.37	-2.51E+00		1.73E+01
+	PA-231	283.67		1.60	3.24E-01	2.89E+00	3.69E+00
		302.67		2.30	5.86E-02		2.89E+00
+	TH-231	25.64		14.70	-1.07E+00	8.86E-01	3.19E+00
		84.21		6.40	-1.86E+00		8.86E-01
+	PA-233	311.98		38.60	-2.63E-02	4.59E-01	4.59E-01
+	PA-234	131.20		20.40	3.11E-02	2.41E-01	2.41E-01
		733.99		8.80	1.79E-01		9.22E-01
		946.00		12.00	9.25E-02		7.29E-01
+	PA-234M	1001.03		0.92	6.10E+00	1.11E+01	1.11E+01
+	TH-234	63.29	*	3.80	1.74E+00	2.88E+00	2.88E+00
+	U-235	143.76		10.50	2.33E-01	4.96E-01	4.96E-01
		163.35		4.70	4.23E-01		1.11E+00
		205.31		4.70	-7.05E-01		1.41E+00
+	NP-237	86.50		12.60	3.48E-01	5.15E-01	5.15E-01
+	NP-239	106.10		22.70	5.97E+03	3.04E+04	3.04E+04
		228.18		10.70	1.69E+04		8.49E+04
		277.60		14.10	5.00E+04		6.66E+04
+	AM-241	59.54		35.90	7.05E-02	1.82E-01	1.82E-01
+	AM-243	74.67		66.00	2.63E-01	1.35E-01	1.35E-01
+	CM-243	209.75		3.29	1.26E+00	4.72E-01	2.13E+00
		228.14		10.60	1.20E-01		6.04E-01
		277.60		14.00	3.55E-01		4.72E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1506114-17

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.14E+00	1.14E+00	1.23E-01	5.40E-01
	NA-22	1274.54		99.94	1.12E-01	1.12E-01	-3.82E-02	5.12E-02
	NA-24	1368.53		99.99	2.56E+18	1.36E+18	8.31E+17	1.16E+18
		2754.09		99.86	1.36E+18		1.47E+17	4.83E+17
	AL-26	1808.65		99.76	7.28E-02	7.28E-02	1.91E-02	3.05E-02
+	K-40	1460.81	*	10.67	1.56E+00	1.56E+00	1.85E+01	7.32E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.78E-02	6.78E-02	-9.84E-03	3.31E-02
		78.34		96.00	8.47E-02		1.94E-01	4.16E-02
	SC-46	889.25		99.98	1.29E-01	1.29E-01	2.60E-02	6.00E-02
		1120.51		99.99	2.25E-01		3.20E-01	1.07E-01
	V-48	983.52		99.98	4.50E-01	4.50E-01	3.74E-03	2.04E-01
		1312.10		97.50	5.60E-01		1.53E-02	2.53E-01
	CR-51	320.08		9.83	1.84E+00	1.84E+00	8.32E-01	8.79E-01
	MN-54	834.83		99.97	1.04E-01	1.04E-01	1.73E-02	4.84E-02
	CO-56	846.75		99.96	1.17E-01	1.17E-01	-4.20E-02	5.39E-02
		1037.75		14.03	8.65E-01		-3.09E-01	3.94E-01
		1238.25		67.00	2.87E-01		3.12E-01	1.34E-01
		1771.40		15.51	5.57E-01		-1.51E-01	2.25E-01
		2598.48		16.90	3.38E-01		4.60E-02	1.07E-01
	CO-57	122.06		85.51	6.19E-02	6.19E-02	-6.90E-03	3.00E-02
		136.48		10.60	5.02E-01		3.76E-02	2.43E-01
	CO-58	810.76		99.40	1.07E-01	1.07E-01	-5.12E-02	4.89E-02
	FE-59	1099.22		56.50	2.96E-01	2.96E-01	8.68E-02	1.35E-01
		1291.56		43.20	4.24E-01		-8.21E-02	1.92E-01
	CO-60	1173.22		100.00	1.25E-01	1.07E-01	1.16E-01	5.80E-02
		1332.49		100.00	1.07E-01		4.33E-02	4.90E-02
	ZN-65	1115.52		50.75	1.97E-01	1.97E-01	-9.09E-03	8.97E-02
+	GA-67	93.31	*	35.70	1.94E+03	1.94E+03	1.16E+03	9.61E+02
		208.95		2.24	1.66E+04		1.15E+04	8.09E+03
		300.22	*	16.00	2.00E+03		1.08E+03	9.56E+02
	SE-75	121.11		16.70	3.65E-01	1.03E-01	1.14E-01	1.77E-01
		136.00		59.20	1.03E-01		6.50E-03	4.99E-02
		264.65		59.80	1.32E-01		-8.07E-03	6.33E-02
		279.53		25.20	3.13E-01		-1.22E-01	1.50E-01
		400.65		11.40	7.47E-01		1.90E-01	3.55E-01
	RB-82	776.52		13.00	2.00E+00	2.00E+00	1.77E-01	9.33E-01
	RB-83	520.41		46.00	2.10E-01	2.10E-01	-3.61E-02	9.89E-02
		529.64		30.30	3.19E-01		-1.44E-03	1.50E-01
		552.65		16.40	6.50E-01		1.59E-01	3.06E-01
	KR-85	513.99		0.43	2.23E+01	2.23E+01	1.39E+00	1.07E+01
	SR-85	513.99		99.27	1.49E-01	1.49E-01	9.26E-03	7.14E-02
	Y-88	898.02		93.40	1.18E-01	1.00E-01	-1.85E-02	5.41E-02
		1836.01		99.38	1.00E-01		-2.31E-03	4.24E-02
	NB-93M	16.57		9.43	7.99E+01	7.99E+01	-1.43E+01	3.89E+01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
NB-94	702.63	100.00	8.94E-02	8.56E-02	6.96E-02	4.20E-02
	871.10	100.00	8.56E-02		4.78E-03	3.95E-02
NB-95	765.79	99.81	2.30E-01	2.30E-01	1.33E-01	1.08E-01
NB-95M	235.69	25.00	9.85E+02	9.85E+02	2.50E+03	4.83E+02
ZR-95	724.18	43.70	3.01E-01	2.44E-01	-7.76E-02	1.41E-01
	756.72	55.30	2.44E-01		1.00E-01	1.14E-01
MO-99	181.06	6.20	2.19E+04	1.63E+04	-1.02E+04	1.06E+04
	739.58	12.80	1.63E+04		1.82E+03	7.60E+03
	778.00	4.50	5.08E+04		5.61E+03	2.37E+04
RU-103	497.08	89.00	1.61E-01	1.61E-01	2.18E-02	7.61E-02
RU-106	621.84	9.80	8.69E-01	8.69E-01	4.15E-03	4.08E-01
AG-108M	433.93	89.90	7.86E-02	7.86E-02	-1.14E-02	3.73E-02
	614.37	90.40	8.91E-02		-1.43E-02	4.18E-02
	722.95	90.50	8.43E-02		-1.26E-01	3.91E-02
CD-109	88.03	3.72	1.88E+00	1.88E+00	1.76E+00	9.22E-01
AG-110M	657.75	93.14	9.39E-02	9.39E-02	-1.43E-02	4.39E-02
	677.61	10.53	8.04E-01		7.82E-02	3.74E-01
	706.67	16.46	5.54E-01		-5.28E-02	2.58E-01
	763.93	21.98	4.56E-01		-3.77E-01	2.13E-01
	884.67	71.63	1.30E-01		5.99E-03	5.99E-02
	1384.27	23.94	4.17E-01		5.41E-02	1.86E-01
CD-113M	263.70	0.02	2.71E+02	2.71E+02	-5.10E+01	1.30E+02
SN-113	255.12	1.93	4.46E+00	1.39E-01	3.19E+00	2.16E+00
	391.69	64.90	1.39E-01		8.20E-02	6.65E-02
TE123M	159.00	84.10	7.22E-02	7.22E-02	-2.18E-02	3.49E-02
SB-124	602.71	97.87	1.27E-01	1.27E-01	-1.72E-02	5.97E-02
	645.85	7.26	1.68E+00		6.60E-01	7.82E-01
	722.78	11.10	1.09E+00		-1.63E+00	5.06E-01
	1691.02	49.00	2.14E-01		-1.12E-03	8.87E-02
I-125	35.49	6.49	3.40E+00	3.40E+00	-4.40E-01	1.65E+00
SB-125	176.33	6.89	7.62E-01	2.35E-01	2.26E-03	3.68E-01
	427.89	29.33	2.35E-01		3.92E-02	1.11E-01
	463.38	10.35	8.16E-01		6.63E-01	3.89E-01
	600.56	17.80	4.58E-01		9.72E-03	2.15E-01
	635.90	11.32	6.75E-01		1.98E-01	3.15E-01
SB-126	414.70	83.30	8.30E-01	7.30E-01	3.82E-02	3.95E-01
	666.33	99.60	7.30E-01		-4.37E-01	3.40E-01
	695.00	99.60	7.57E-01		-2.23E-01	3.53E-01
	720.50	53.80	1.41E+00		2.01E-01	6.57E-01
SN-126	87.57	37.00	1.78E-01	1.78E-01	1.67E-01	8.73E-02
SB-127	473.00	25.00	4.01E+02	3.04E+02	1.71E+02	1.90E+02
	685.20	35.70	3.04E+02		-1.01E+02	1.41E+02
	783.80	14.70	8.61E+02		4.86E+01	4.02E+02
I-129	29.78	57.00	4.29E-01	4.29E-01	-1.16E-01	2.09E-01
	33.60	13.20	1.26E+00		8.73E-02	6.10E-01
	39.58	7.52	1.36E+00		3.48E-02	6.60E-01
I-131	284.30	6.05	3.16E+01	2.56E+00	2.78E+00	1.51E+01
	364.48	81.20	2.56E+00		-4.05E-01	1.22E+00
	636.97	7.26	3.19E+01		1.02E+01	1.49E+01
	722.89	1.80	1.37E+02		-2.04E+02	6.34E+01
TE-132	49.72	13.10	2.92E+03	3.85E+02	-5.46E+03	1.42E+03
	228.16	88.00	3.85E+02		7.65E+01	1.86E+02
BA-133	81.00	33.00	1.71E-01	1.52E-01	-9.62E-01	8.32E-02

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-133	302.84		17.80	3.76E-01	1.52E-01	7.63E-03	1.81E-01
		356.01		60.00	1.52E-01		-1.87E-02	7.37E-02
	I-133	529.87		86.30	8.15E+12	8.15E+12	-3.68E+10	3.83E+12
	CS-134	563.23		8.38	9.29E-01	9.18E-02	2.07E-01	4.37E-01
		569.32		15.43	4.13E-01		-1.73E-01	1.91E-01
		604.70		97.60	9.18E-02		-1.36E-02	4.33E-02
		795.84		85.40	1.14E-01		6.03E-02	5.31E-02
		801.93		8.73	1.01E+00		-1.29E-01	4.68E-01
	CS-135	268.24		16.00	4.28E-01	4.28E-01	3.95E-01	2.07E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	5.52E+00	5.68E-01	2.47E-01	2.67E+00
		163.89		4.61	9.49E+00		3.61E+00	4.59E+00
		176.55		13.56	3.10E+00		-1.28E+00	1.49E+00
		273.65		12.66	4.52E+00		-1.33E-01	2.18E+00
		340.57		48.50	1.50E+00		1.38E+00	7.26E-01
		818.50		99.70	5.68E-01		-3.76E-01	2.58E-01
		1048.07		79.60	8.53E-01		-4.57E-01	3.86E-01
		1235.34		19.70	5.22E+00		-2.61E-01	2.43E+00
	CS-137	661.65		85.12	9.87E-02	9.87E-02	1.80E-02	4.63E-02
	LA-138	788.74		34.00	2.64E-01	1.22E-01	1.12E-01	1.23E-01
		1435.80		66.00	1.22E-01		-4.09E-03	5.33E-02
	CE-139	165.85		80.35	7.95E-02	7.95E-02	8.27E-03	3.85E-02
	BA-140	162.64		6.70	6.82E+00	2.71E+00	2.11E+00	3.30E+00
		304.84		4.50	1.23E+01		1.08E+00	5.91E+00
		423.70		3.20	1.88E+01		-4.49E+00	8.92E+00
		437.55		2.00	3.43E+01		1.91E+01	1.63E+01
		537.32		25.00	2.71E+00		-5.39E-01	1.28E+00
	LA-140	328.77		20.50	2.99E+00	7.68E-01	2.32E+00	1.43E+00
		487.03		45.50	1.37E+00		1.17E-01	6.46E-01
		815.85		23.50	2.69E+00		-3.52E-03	1.23E+00
		1596.49		95.49	7.68E-01		3.09E-02	3.34E-01
+	CE-141	145.44	*	48.40	4.74E-01	4.74E-01	4.27E-01	2.33E-01
	CE-143	57.36		11.80	3.77E+08	1.45E+08	1.71E+08	1.84E+08
		293.26		42.00	1.45E+08		-1.56E+07	7.05E+07
		664.55		5.20	1.08E+09		4.57E+08	5.09E+08
	CE-144	133.54		10.80	4.88E-01	4.88E-01	-3.49E-02	2.36E-01
	PM-144	476.78		42.00	1.69E-01	8.55E-02	-1.28E-01	7.93E-02
		618.01		98.60	8.55E-02		6.88E-03	4.01E-02
		696.49		99.49	8.55E-02		-2.36E-02	3.98E-02
	PM-145	36.85		21.70	5.78E-01	3.01E-01	3.04E-02	2.80E-01
		37.36		39.70	3.01E-01		-8.16E-02	1.46E-01
		42.30		15.10	6.06E-01		-2.73E-01	2.94E-01
		72.40		2.31	3.28E+00		-4.10E+00	1.61E+00
	PM-146	453.90		39.94	1.97E-01	1.97E-01	1.17E-01	9.39E-02
		735.90		14.01	5.75E-01		1.76E-02	2.67E-01
		747.13		13.10	6.13E-01		-2.49E-02	2.84E-01
	ND-147	91.11		28.90	2.84E+00	2.84E+00	-9.17E-01	1.39E+00
		531.02		13.10	6.89E+00		-3.75E-01	3.24E+00
	PM-149	285.90		3.10	6.31E+05	6.31E+05	5.90E+05	3.03E+05
	EU-152	121.78		20.50	2.34E-01	2.34E-01	-2.61E-02	1.13E-01
		244.69		5.40	1.41E+00		2.08E-02	6.84E-01

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	344.27		19.13	3.53E-01	2.34E-01	9.71E-02	1.69E-01
		778.89		9.20	9.90E-01		5.20E-01	4.63E-01
		964.01		10.40	1.04E+00		-1.99E+00	4.84E-01
		1085.78		7.22	1.41E+00		-8.52E-02	6.50E-01
		1112.02		9.60	9.57E-01		1.41E-01	4.36E-01
		1407.95		14.94	6.43E-01		9.45E-02	2.88E-01
	GD-153	97.43		31.30	1.75E-01	1.75E-01	3.86E-02	8.51E-02
		103.18		22.20	2.34E-01		-1.82E-01	1.14E-01
	EU-154	123.07		40.50	1.19E-01	1.19E-01	-1.78E-02	5.76E-02
		723.30		19.70	3.91E-01		-5.82E-01	1.81E-01
		873.19		11.50	7.09E-01		-3.71E-01	3.26E-01
		996.32		10.30	8.16E-01		-4.52E-01	3.72E-01
		1004.76		17.90	5.35E-01		1.50E-02	2.46E-01
		1274.45		35.50	3.08E-01		-1.05E-01	1.41E-01
	EU-155	86.50		30.90	2.13E-01	2.13E-01	1.44E-01	1.04E-01
		105.30		20.70	2.35E-01		-8.74E-03	1.14E-01
	EU-156	811.77		10.40	4.24E+00	4.24E+00	-2.46E-01	1.93E+00
		1153.47		7.20	8.74E+00		3.91E+00	4.01E+00
		1230.71		8.90	7.78E+00		1.36E+00	3.58E+00
	HO-166M	184.41		72.60	9.24E-02	9.24E-02	1.46E-01	4.49E-02
		280.45		29.60	2.05E-01		1.26E-02	9.81E-02
		410.94		11.10	7.03E-01		4.59E-01	3.36E-01
		711.69		54.10	1.46E-01		-1.13E-03	6.79E-02
	TM-171	66.72		0.14	4.80E+01	4.80E+01	-8.17E+01	2.35E+01
	HF-172	81.75		4.52	1.29E+00	4.44E-01	-4.18E+00	6.29E-01
		125.81		11.30	4.44E-01		-1.31E-01	2.15E-01
	LU-172	181.53		20.60	1.72E+01	9.34E+00	-1.62E+01	8.33E+00
		810.06		16.63	2.79E+01		-1.72E+01	1.27E+01
		912.12		15.25	6.85E+01		1.36E+02	3.28E+01
		1093.66		62.50	9.34E+00		1.98E+00	4.26E+00
	LU-173	100.72		5.24	9.73E-01	3.37E-01	2.32E-01	4.73E-01
		272.11		21.20	3.37E-01		-9.67E-02	1.63E-01
	HF-175	343.40		84.00	1.23E-01	1.23E-01	3.27E-02	5.89E-02
	LU-176	88.34		13.30	5.03E-01	6.79E-02	1.44E-01	2.46E-01
		201.83		86.00	7.43E-02		-5.25E-02	3.60E-02
		306.78		94.00	6.79E-02		1.62E-02	3.25E-02
	TA-182	67.75		41.20	1.98E-01	1.98E-01	-2.88E-02	9.69E-02
		1121.30		34.90	5.83E-01		5.77E-01	2.77E-01
		1189.05		16.23	8.24E-01		1.88E-01	3.78E-01
		1221.41		26.98	5.53E-01		5.87E-04	2.56E-01
		1231.02		11.44	1.18E+00		3.91E-03	5.39E-01
	IR-192	308.46		29.68	3.17E-01	2.12E-01	5.54E-02	1.52E-01
		468.07		48.10	2.12E-01		-3.34E-02	1.00E-01
	HG-203	279.19		77.30	1.52E-01	1.52E-01	2.57E-02	7.31E-02
	BI-207	569.67		97.72	6.52E-02	6.52E-02	1.50E-03	3.03E-02
		1063.62		74.90	1.24E-01		9.14E-03	5.66E-02
+	TL-208	583.14	*	30.22	3.02E-01	2.03E-01	1.04E+00	1.43E-01
		860.37	*	4.48	4.02E+00		1.98E+00	1.94E+00
		2614.66	*	35.85	2.03E-01		1.02E+00	8.09E-02
	BI-210M	262.00		45.00	1.35E-01	1.35E-01	-1.12E-01	6.50E-02
		300.00		23.00	2.94E-01		-1.20E+00	1.41E-01
	PB-210	46.50		4.25	2.03E+00	2.03E+00	7.68E-01	9.87E-01
	PB-211	404.84		2.90	2.43E+00	2.43E+00	4.71E-01	1.16E+00

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	831.96		2.90	2.99E+00	2.43E+00	-1.55E-01	1.39E+00
	BI-212	727.17		11.80	7.90E-01	7.90E-01	4.17E-01	3.71E-01
		1620.62		2.75	2.44E+00		0.00E+00	1.02E+00
+	PB-212	238.63	*	44.60	3.13E-01	3.13E-01	1.30E+00	1.54E-01
		300.09	*	3.41	1.78E+00		9.62E-01	8.52E-01
+	BI-214	609.31	*	46.30	2.83E-01	2.83E-01	1.07E+00	1.36E-01
		1120.29	*	15.10	9.98E-01		1.95E+00	4.72E-01
		1764.49	*	15.80	4.15E-01		1.10E+00	1.71E-01
		2204.22	*	4.98	1.48E+00		9.41E-01	6.05E-01
+	PB-214	295.21	*	19.19	4.36E-01	2.94E-01	1.09E+00	2.11E-01
		351.92	*	37.19	2.94E-01		1.27E+00	1.43E-01
	RN-219	401.80		6.50	1.05E+00	1.05E+00	1.04E-01	4.98E-01
	RA-223	323.87		3.88	1.73E+00	1.73E+00	4.64E-01	8.28E-01
	RA-224	240.98		3.95	3.18E+00	3.18E+00	1.69E+01	1.56E+00
	RA-225	40.00		31.00	2.13E+00	2.13E+00	5.44E-02	1.03E+00
+	RA-226	186.21	*	3.28	3.18E+00	3.18E+00	3.41E+00	1.56E+00
	TH-227	50.10		8.40	8.50E-01	8.50E-01	-1.59E+00	4.14E-01
		236.00		11.50	9.32E-01		2.37E+00	4.57E-01
		256.20		6.30	1.05E+00		4.88E-01	5.08E-01
+	AC-228	338.32	*	11.40	8.13E-01	5.23E-01	1.63E+00	3.94E-01
		911.07	*	27.70	5.23E-01		1.02E+00	2.49E-01
		969.11	*	16.60	1.33E+00		9.27E-01	6.43E-01
	TH-230	48.44		16.90	4.76E-01	4.76E-01	3.34E-01	2.32E-01
		62.85		4.60	1.58E+00		1.76E+00	7.74E-01
		67.67		0.37	1.73E+01		-2.51E+00	8.46E+00
	PA-231	283.67		1.60	3.69E+00	2.89E+00	3.24E-01	1.77E+00
		302.67		2.30	2.89E+00		5.86E-02	1.39E+00
	TH-231	25.64		14.70	3.19E+00	8.86E-01	-1.07E+00	1.55E+00
		84.21		6.40	8.86E-01		-1.86E+00	4.32E-01
	PA-233	311.98		38.60	4.59E-01	4.59E-01	-2.63E-02	2.20E-01
	PA-234	131.20		20.40	2.41E-01	2.41E-01	3.11E-02	1.17E-01
		733.99		8.80	9.22E-01		1.79E-01	4.29E-01
		946.00		12.00	7.29E-01		9.25E-02	3.35E-01
	PA-234M	1001.03		0.92	1.11E+01	1.11E+01	6.10E+00	5.17E+00
+	TH-234	63.29	*	3.80	2.88E+00	2.88E+00	1.74E+00	1.42E+00
	U-235	143.76		10.50	4.96E-01	4.96E-01	2.33E-01	2.41E-01
		163.35		4.70	1.11E+00		4.23E-01	5.38E-01
		205.31		4.70	1.41E+00		-7.05E-01	6.84E-01
	NP-237	86.50		12.60	5.15E-01	5.15E-01	3.48E-01	2.52E-01
	NP-239	106.10		22.70	3.04E+04	3.04E+04	5.97E+03	1.48E+04
		228.18		10.70	8.49E+04		1.69E+04	4.11E+04
		277.60		14.10	6.66E+04		5.00E+04	3.20E+04
	AM-241	59.54		35.90	1.82E-01	1.82E-01	7.05E-02	8.87E-02
	AM-243	74.67		66.00	1.35E-01	1.35E-01	2.63E-01	6.64E-02
	CM-243	209.75		3.29	2.13E+00	4.72E-01	1.26E+00	1.04E+00
		228.14		10.60	6.04E-01		1.20E-01	2.92E-01
		277.60		14.00	4.72E-01		3.55E-01	2.27E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506114-17

FEEBRIS1D-13.085-086

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-13.085-086

Elapsed Live time: 3600
Elapsed Real Time: 3616

Channel								
1:	0	0	0	0	0	0	0	0
9:	11	183	168	142	126	101	109	97
17:	107	75	89	98	69	93	109	88
25:	75	80	88	79	75	74	69	88
33:	78	84	78	70	84	68	80	69
41:	80	65	64	88	87	97	138	86
49:	78	90	94	74	110	90	93	85
57:	99	96	110	118	91	112	174	213
65:	131	114	139	116	114	131	123	120
73:	159	150	366	266	377	415	119	110
81:	108	96	101	123	136	102	172	217
89:	112	163	124	132	203	150	98	80
97:	84	61	89	98	77	66	68	74
105:	79	85	80	76	89	72	75	66
113:	77	73	69	88	61	73	78	69
121:	70	70	75	67	66	74	69	72
129:	84	69	70	63	64	63	69	66
137:	70	58	58	71	61	60	71	85
145:	72	73	63	61	66	51	45	55
153:	53	80	66	55	64	56	53	55
161:	44	74	53	58	74	53	60	60
169:	66	47	52	54	62	63	43	56
177:	54	53	54	48	63	51	60	77
185:	61	124	122	58	56	48	56	42
193:	50	46	55	47	55	57	60	49
201:	48	51	50	48	47	57	67	51
209:	63	74	50	52	45	57	38	39
217:	37	49	38	28	42	51	50	38
225:	47	56	29	42	30	44	44	48
233:	28	32	40	41	55	143	462	167
241:	57	124	81	39	39	22	30	36
249:	35	31	31	42	38	34	32	38
257:	43	47	30	32	26	37	24	29
265:	33	30	37	28	25	55	51	26
273:	28	32	29	39	45	34	32	28
281:	19	17	25	31	32	26	23	34
289:	29	19	22	21	26	30	137	145
297:	43	20	21	44	34	26	20	23
305:	24	27	32	20	25	27	29	20
313:	20	29	18	20	27	25	22	19
321:	29	27	27	18	27	24	27	37
329:	40	28	12	17	13	21	14	33
337:	31	71	97	36	22	27	18	12
345:	27	31	24	21	17	26	68	285
353:	167	22	22	22	19	15	18	15
361:	25	13	18	26	13	21	23	19

369:	21	20	19	24	20	16	16	18

Sample Title: FEEBRIS1D-13.085-086

Channel								
377:	24	20	14	16	10	15	22	14
385:	20	17	20	19	15	27	25	24
393:	22	11	20	12	14	16	18	14
401:	14	24	19	19	18	18	20	16
409:	34	22	25	27	17	20	15	17
417:	16	24	20	17	18	17	14	17
425:	14	17	16	15	20	11	16	13
433:	14	19	22	15	19	24	16	16
441:	28	15	14	16	13	16	12	13
449:	14	16	11	14	20	18	24	24
457:	22	15	12	14	18	17	35	23
465:	20	17	9	19	5	18	13	11
473:	19	13	14	13	12	10	13	10
481:	27	10	12	17	11	13	20	17
489:	8	8	16	12	16	11	17	16
497:	12	15	7	14	8	14	9	15
505:	14	14	8	16	22	39	72	32
513:	14	7	19	13	9	10	16	14
521:	9	10	15	11	10	14	9	12
529:	13	10	7	14	15	11	11	14
537:	20	18	9	11	17	13	10	13
545:	15	12	15	7	11	12	14	17
553:	14	11	9	14	10	16	20	12
561:	13	19	14	10	9	6	7	5
569:	9	7	7	12	10	10	7	15
577:	9	6	9	8	9	30	96	75
585:	21	6	5	11	13	12	10	9
593:	8	17	7	12	7	15	10	9
601:	17	9	9	14	11	11	15	29
609:	136	138	23	10	8	11	10	8
617:	12	15	13	10	8	12	10	10
625:	14	7	11	8	9	9	15	9
633:	13	3	6	10	12	11	10	8
641:	6	8	10	8	7	11	10	10
649:	11	5	10	10	8	10	7	8
657:	15	5	10	10	13	17	7	8
665:	13	7	13	12	3	9	12	7
673:	6	6	11	11	7	3	6	14
681:	8	7	12	8	8	11	9	5
689:	12	8	11	8	11	11	6	8
697:	13	6	7	16	6	15	11	11
705:	6	15	4	9	11	9	7	8
713:	10	10	5	15	13	9	9	9
721:	5	10	5	6	7	12	23	19
729:	9	6	6	12	3	4	11	11
737:	13	6	9	6	8	6	6	10
745:	5	5	10	3	11	11	13	5
753:	8	5	12	10	8	14	7	10
761:	6	9	15	14	7	8	10	20
769:	19	17	5	12	9	6	10	7
777:	14	7	10	5	12	13	6	5
785:	6	13	10	12	8	9	5	8
793:	10	16	21	10	4	5	4	8

801:	6	8	15	7	8	16	9	4

Sample Title: FEEBRIS1D-13.085-086

Channel								
809:	2	7	5	5	6	9	2	3
817:	6	4	7	2	9	5	10	3
825:	1	9	7	3	3	10	9	6
833:	7	10	10	11	11	11	5	10
841:	12	13	6	6	7	2	6	6
849:	10	10	2	13	5	9	5	2
857:	3	7	6	16	16	5	7	4
865:	5	7	12	6	10	11	7	3
873:	6	6	3	7	7	11	10	6
881:	7	4	2	6	6	12	8	8
889:	7	6	8	7	7	8	8	6
897:	12	4	3	5	7	6	8	5
905:	8	9	5	5	7	19	73	52
913:	7	7	8	6	9	6	6	6
921:	5	1	1	4	7	2	4	4
929:	10	9	5	7	9	16	6	9
937:	6	6	2	4	8	5	4	8
945:	6	4	7	11	4	5	5	9
953:	5	5	3	7	6	2	5	9
961:	3	10	10	15	18	6	4	22
969:	40	19	6	3	6	3	6	2
977:	9	7	6	3	6	4	4	6
985:	3	6	4	6	13	5	4	9
993:	2	8	5	3	5	7	6	6
1001:	11	9	6	11	7	5	5	4
1009:	3	8	4	2	8	8	6	5
1017:	8	8	3	8	9	4	8	5
1025:	3	2	6	5	4	8	4	7
1033:	3	7	5	7	6	5	4	4
1041:	4	7	8	7	4	1	11	4
1049:	4	4	3	4	8	5	11	4
1057:	4	5	7	7	10	4	5	4
1065:	4	6	5	5	8	5	6	2
1073:	14	7	7	5	3	6	9	5
1081:	6	6	7	12	8	5	4	4
1089:	7	5	10	4	7	2	5	3
1097:	4	3	4	3	11	7	2	6
1105:	4	4	4	5	7	7	5	6
1113:	2	4	5	3	9	5	20	45
1121:	23	12	6	6	10	12	6	3
1129:	4	10	9	5	7	11	5	8
1137:	7	4	8	4	8	5	6	6
1145:	7	3	7	2	5	9	1	7
1153:	4	6	8	6	5	3	11	4
1161:	7	7	4	3	5	4	5	6
1169:	3	10	10	7	9	11	6	9
1177:	3	3	5	9	7	8	9	3
1185:	6	7	3	5	10	7	5	6
1193:	6	5	9	7	5	9	4	6
1201:	12	6	7	9	10	6	7	5
1209:	7	7	4	13	3	7	12	8
1217:	9	8	5	4	9	9	10	7
1225:	5	8	8	4	10	7	7	5

1233:	4	4	6	8	17	13	9	5

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Channel								
1241:	11	1	5	4	13	3	4	7
1249:	2	7	8	3	5	6	2	6
1257:	10	5	5	2	2	6	2	3
1265:	4	6	6	5	6	7	2	5
1273:	7	1	5	7	4	3	7	5
1281:	5	6	1	7	4	7	3	2
1289:	5	2	6	2	6	0	6	5
1297:	1	2	5	4	4	2	7	7
1305:	4	4	6	3	6	6	1	2
1313:	2	5	2	2	3	1	6	4
1321:	3	7	9	6	2	5	2	3
1329:	4	2	7	6	4	8	1	1
1337:	2	2	2	3	2	2	2	6
1345:	4	3	3	1	1	1	4	2
1353:	2	3	2	2	6	1	2	3
1361:	2	0	4	2	2	5	0	4
1369:	4	4	4	4	0	5	3	7
1377:	15	10	4	1	3	3	1	4
1385:	3	4	2	2	2	1	2	6
1393:	3	3	2	2	1	1	4	1
1401:	6	5	1	2	1	1	4	8
1409:	4	3	2	1	2	2	5	2
1417:	7	1	2	5	4	1	5	5
1425:	3	3	1	1	3	3	5	2
1433:	1	3	2	0	2	1	1	1
1441:	2	2	2	3	1	2	3	0
1449:	1	8	3	1	1	3	2	1
1457:	4	6	61	176	215	70	11	1
1465:	2	0	1	3	3	1	2	2
1473:	3	1	1	1	3	3	2	1
1481:	0	0	0	5	2	1	0	0
1489:	1	3	0	3	2	2	2	0
1497:	3	1	1	4	2	2	1	2
1505:	4	1	1	3	4	5	2	1
1513:	3	2	2	0	2	2	0	0
1521:	1	1	3	2	0	3	1	0
1529:	3	1	0	2	3	2	2	1
1537:	2	1	1	2	2	2	2	3
1545:	1	0	2	2	0	3	1	1
1553:	2	0	2	3	2	0	0	0
1561:	0	3	1	2	1	2	5	2
1569:	1	2	0	3	1	2	0	6
1577:	3	1	1	1	2	2	1	1
1585:	0	1	3	2	3	2	2	2
1593:	4	2	0	1	1	2	1	2
1601:	4	2	0	0	0	1	1	1
1609:	0	1	1	2	3	0	0	0
1617:	1	1	1	4	1	0	0	1
1625:	0	1	2	0	0	3	2	1
1633:	0	2	1	1	2	3	1	1
1641:	1	1	2	0	2	2	3	0
1649:	2	3	1	2	0	0	1	0
1657:	1	0	1	2	3	0	2	0

1665:	1	3	0	2	0	0	1	0

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Channel								
1673:	1	1	1	0	0	0	2	0
1681:	2	2	0	2	2	0	2	1
1689:	1	0	2	0	1	0	1	1
1697:	0	1	1	0	1	1	1	1
1705:	1	1	1	2	2	0	0	1
1713:	2	0	0	0	1	1	1	0
1721:	0	1	0	1	3	0	0	3
1729:	5	3	3	1	0	1	0	0
1737:	1	2	1	0	3	0	1	1
1745:	1	0	0	0	0	2	1	1
1753:	1	1	1	0	0	0	1	0
1761:	1	1	12	17	10	2	2	0
1769:	1	1	0	0	1	1	0	1
1777:	0	2	3	0	0	1	3	1
1785:	2	1	1	0	0	0	1	0
1793:	2	0	1	4	1	1	0	1
1801:	0	0	1	0	3	1	0	0
1809:	1	2	1	1	0	2	0	0
1817:	1	2	1	0	1	1	2	2
1825:	0	2	1	2	2	0	2	0
1833:	0	1	2	2	1	1	1	1
1841:	2	0	2	0	1	2	1	0
1849:	0	1	2	1	1	1	1	0
1857:	0	4	0	1	2	2	1	3
1865:	1	1	0	0	0	2	1	0
1873:	0	0	0	1	1	2	1	0
1881:	0	0	0	0	2	2	1	0
1889:	2	1	0	1	0	1	2	0
1897:	0	2	0	4	2	1	0	1
1905:	1	0	0	1	1	3	1	0
1913:	2	2	1	0	2	2	2	2
1921:	2	0	1	1	0	3	1	3
1929:	2	0	1	0	0	0	1	0
1937:	1	1	2	0	1	0	1	0
1945:	2	1	0	0	4	1	1	0
1953:	0	0	0	0	0	1	0	1
1961:	2	1	2	0	0	1	3	1
1969:	0	1	1	1	1	0	0	1
1977:	0	0	0	0	2	1	1	0
1985:	0	0	2	0	0	1	0	2
1993:	0	0	0	0	0	0	2	0
2001:	2	0	0	2	0	1	3	0
2009:	1	2	0	0	0	1	0	2
2017:	2	2	1	2	2	1	0	2
2025:	0	0	2	0	1	0	1	0
2033:	1	0	0	1	0	2	0	0
2041:	0	1	1	1	1	2	0	2
2049:	0	0	1	0	1	1	0	3
2057:	1	0	0	0	1	0	0	1
2065:	0	0	1	0	0	0	1	0
2073:	1	1	1	1	1	1	0	0
2081:	1	0	0	1	1	1	1	0
2089:	0	0	1	0	0	1	0	1

2097:	0	1	2	1	1	3	3	3

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Channel								
2105:	0	3	0	1	0	1	0	0
2113:	0	0	0	1	0	4	2	0
2121:	0	0	0	1	2	0	0	1
2129:	0	1	0	2	2	0	1	1
2137:	0	3	0	1	0	0	0	0
2145:	2	0	1	2	0	0	0	1
2153:	3	0	0	0	0	0	0	1
2161:	0	0	0	0	1	2	1	1
2169:	2	1	0	1	0	0	0	1
2177:	0	2	0	0	1	0	0	1
2185:	1	0	2	0	1	2	1	0
2193:	0	1	0	1	3	0	2	4
2201:	0	3	5	5	1	0	0	1
2209:	2	2	0	1	0	0	1	1
2217:	2	0	1	0	1	1	1	1
2225:	0	3	1	1	0	1	0	1
2233:	0	0	1	0	3	1	1	2
2241:	1	0	0	1	0	1	2	1
2249:	3	1	0	1	1	0	0	2
2257:	1	0	2	1	0	2	1	1
2265:	1	0	0	2	1	1	1	0
2273:	1	0	1	0	0	0	1	1
2281:	0	0	2	0	3	1	1	0
2289:	2	1	1	1	2	1	1	0
2297:	1	1	0	0	1	0	0	0
2305:	1	0	1	1	3	1	0	0
2313:	1	0	1	1	1	0	0	0
2321:	0	0	2	2	1	0	1	1
2329:	0	0	1	0	1	0	2	1
2337:	2	1	2	2	0	1	0	1
2345:	2	2	0	0	0	0	1	1
2353:	2	1	0	0	1	2	2	1
2361:	0	1	1	2	1	1	0	1
2369:	2	1	0	2	1	1	0	0
2377:	1	1	1	2	0	0	0	0
2385:	2	0	0	2	1	1	1	1
2393:	3	1	1	0	0	0	0	0
2401:	2	2	1	0	0	1	2	1
2409:	0	1	0	1	0	1	2	0
2417:	2	0	1	1	0	1	1	0
2425:	0	0	1	1	0	0	0	0
2433:	1	1	0	2	0	0	1	0
2441:	0	2	1	1	1	0	3	1
2449:	1	2	1	0	0	1	1	3
2457:	1	2	0	1	0	1	0	0
2465:	0	2	0	1	0	0	1	0
2473:	0	0	1	0	0	0	1	1
2481:	1	1	0	0	2	0	0	0
2489:	0	1	0	0	1	0	1	1
2497:	0	0	0	0	2	0	0	0
2505:	0	1	1	1	1	0	2	0
2513:	0	1	0	0	0	0	0	0
2521:	0	1	1	0	0	0	1	0

2529:	2	1	0	0	0	1	0	1

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Channel								
2537:	0	0	0	0	0	0	2	0
2545:	0	2	0	0	3	0	1	1
2553:	0	0	0	0	0	0	0	0
2561:	0	0	1	0	1	0	1	0
2569:	0	0	0	0	0	0	0	0
2577:	2	0	0	0	0	0	0	0
2585:	1	1	0	0	1	1	0	0
2593:	0	1	0	0	0	0	0	0
2601:	0	0	0	0	0	0	1	0
2609:	1	1	2	5	19	26	10	5
2617:	1	0	0	0	0	0	0	1
2625:	2	0	0	0	1	0	0	0
2633:	0	0	1	0	1	0	0	0
2641:	0	0	0	0	0	0	0	1
2649:	0	0	1	0	0	0	0	0
2657:	0	1	0	0	0	0	0	0
2665:	0	0	0	0	0	0	1	0
2673:	1	1	0	0	0	0	0	0
2681:	0	0	0	0	1	0	1	0
2689:	0	1	0	0	0	0	0	1
2697:	0	1	0	0	0	0	1	0
2705:	0	0	0	1	0	0	0	0
2713:	2	1	0	0	0	0	0	0
2721:	0	0	0	1	0	0	0	0
2729:	2	1	0	0	0	1	0	0
2737:	0	0	1	0	1	0	0	1
2745:	0	1	0	1	0	1	1	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	0	1
2769:	0	0	1	0	0	0	0	0
2777:	0	0	0	0	1	0	0	0
2785:	0	0	0	0	0	1	0	0
2793:	0	1	0	0	0	1	0	0
2801:	0	1	1	0	0	1	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	1	1	0	0	1	0	0
2825:	0	0	1	1	0	0	0	0
2833:	0	0	0	0	0	1	0	0
2841:	0	0	0	0	0	0	0	1
2849:	0	0	0	1	0	0	0	1
2857:	0	0	0	0	0	0	0	1
2865:	0	0	1	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	1
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	1	0	1	0	1	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	1	0
2929:	0	1	0	0	0	0	0	0
2937:	0	1	0	1	0	0	0	0
2945:	1	0	0	3	0	0	0	0
2953:	0	0	0	0	1	0	0	0

2961:	0	0	0	0	0	0	0	0

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Channel								
2969:	0	1	0	0	1	0	1	0
2977:	0	0	0	0	1	0	1	1
2985:	0	0	0	0	0	0	2	0
2993:	0	0	1	0	0	0	0	1
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	1	0	0	1	1	0
3025:	0	2	0	0	0	0	0	0
3033:	0	0	1	0	2	0	0	0
3041:	0	0	0	1	0	0	1	0
3049:	1	0	0	0	0	1	0	0
3057:	0	0	2	0	0	0	1	1
3065:	1	0	0	0	0	0	1	0
3073:	0	0	0	0	0	1	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	1	0
3097:	0	1	1	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	1	0	0	0
3121:	1	0	1	0	1	0	0	0
3129:	1	0	1	0	0	0	0	0
3137:	0	1	1	0	0	0	0	0
3145:	0	1	0	1	0	0	1	0
3153:	0	0	0	0	0	0	0	1
3161:	0	1	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	1
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	1	0	0	2
3193:	0	0	1	0	1	1	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	1	1	1	0	0
3217:	0	0	0	0	0	1	0	0
3225:	0	0	0	0	0	1	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	1	0	0	0	0
3249:	0	0	1	0	0	0	0	1
3257:	0	0	1	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	1	0	1	0	1
3297:	0	0	0	0	0	0	1	0
3305:	0	2	0	0	0	0	0	2
3313:	1	0	0	0	0	0	1	0
3321:	0	1	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	1
3337:	1	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	1	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	1	0	0	0
3369:	0	1	0	0	0	0	0	0
3377:	0	1	0	0	0	0	1	0
3385:	1	0	0	0	0	0	0	0

3393:	0	0	1	0	0	0	1	0

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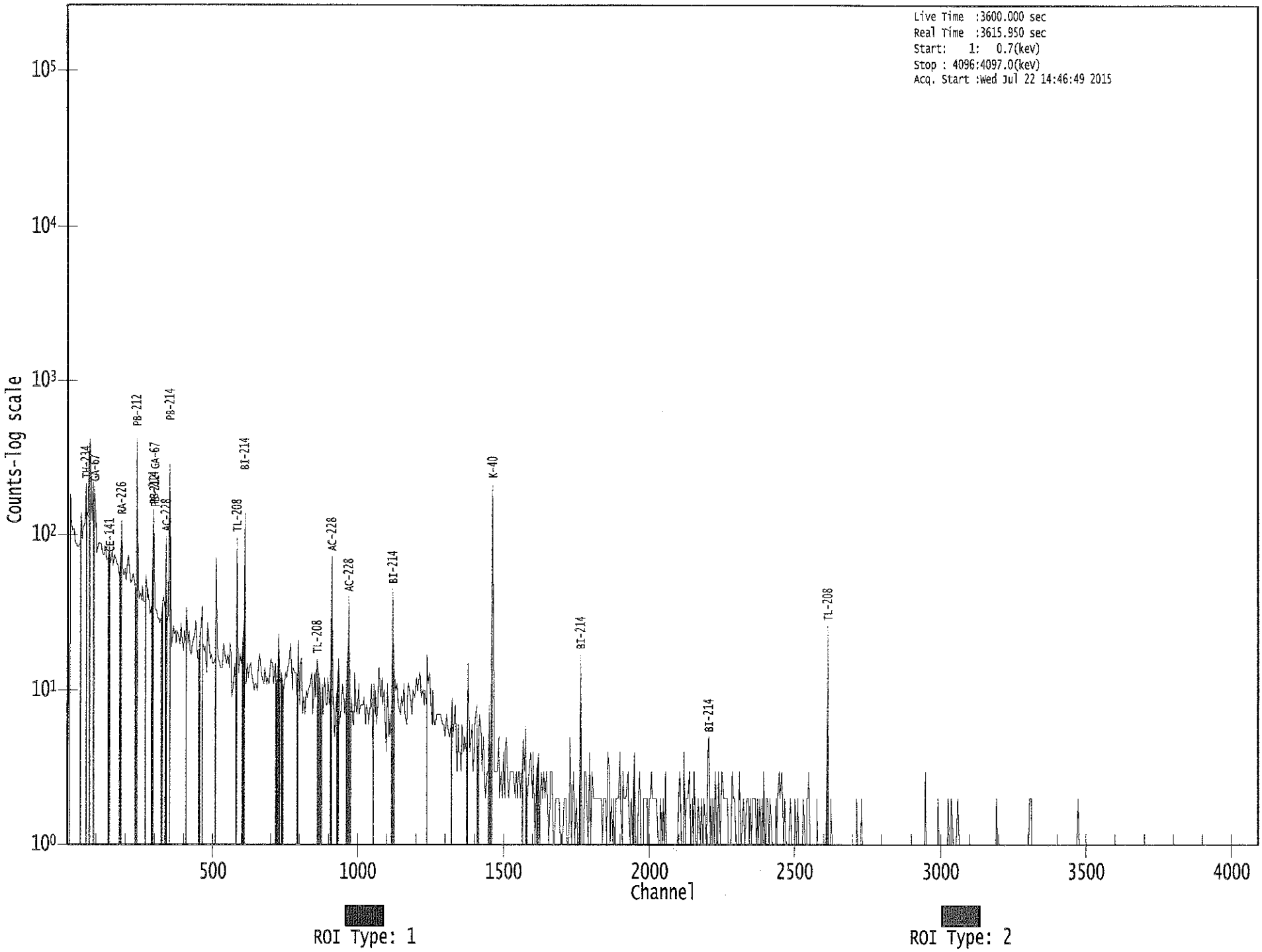
Channel								
3401:	0	0	0	0	1	0	0	1
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	1
3425:	0	1	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	1
3441:	0	0	0	0	0	0	0	0
3449:	0	1	0	0	0	0	0	0
3457:	0	0	0	1	0	0	1	0
3465:	0	0	0	1	0	1	0	0
3473:	2	1	0	1	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	1	0	0	0	0	0	0	0
3521:	1	0	0	0	0	0	0	0
3529:	1	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	1	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	1	0	1	0	0	0	0
3569:	0	0	0	1	1	0	1	0
3577:	0	0	0	1	0	0	0	0
3585:	0	0	0	0	0	1	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	1	0	0	0	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	1	0
3633:	0	0	1	0	0	0	1	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	0	0	1	0	0	0
3665:	0	0	1	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	1	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	1	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	1	0	0
3745:	0	1	0	1	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	1	1	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	1	1	0	0	0	0	0	0

3825:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-13.085-086

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	1	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	1	0	1	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	1	0	1	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	1	0
3929:	0	0	1	0	1	0	0	0
3937:	0	0	0	0	0	1	0	0
3945:	0	0	0	0	0	0	0	0
3953:	1	0	1	0	0	0	1	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	1	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	1
4001:	0	1	1	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	1	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	1	1	0	0	1
4049:	0	0	1	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	1	1
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	1	0	0	0	0

0000025027.CNF



KB 7/22/15

Apex-Gamma

Analysis Report for 1506114-18
FEEBRIS1D-14.082-084

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-18
Sample Description	: FEEBRIS1D-14.082-084
Sample Type	: SOIL
Sample Size	: 6.337E+02 grams
Facility	: Countroom
Sample Taken On	: 6/12/2015 7:44:37AM
Acquisition Started	: 7/22/2015 2:46:56PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.5 seconds
Dead Time	: 0.04 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 25028

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 3:47:08PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	25.42	24.67	0.0000	0.00
2	64.30	63.57	0.0000	0.00
3	76.14	75.41	0.0000	0.00
4	86.92	86.19	0.0000	0.00
5	92.73	92.00	0.0000	0.00
6	239.30	238.64	0.0000	0.00
7	295.97	295.33	0.0000	0.00
8	338.51	337.89	0.0000	0.00
9	351.94	351.33	0.0000	0.00
10	410.06	409.47	0.0000	0.00
11	462.97	462.41	0.0000	0.00
12	511.39	510.85	0.0000	0.00
13	570.24	569.72	0.0000	0.00
14	583.17	582.67	0.0000	0.00
15	609.20	608.71	0.0000	0.00
16	653.67	653.20	0.0000	0.00
17	911.36	911.02	0.0000	0.00
18	922.05	921.71	0.0000	0.00
19	941.26	940.93	0.0000	0.00
20	969.24	968.93	0.0000	0.00
21	1087.68	1087.44	0.0000	0.00
22	1119.51	1119.29	0.0000	0.00
23	1295.43	1295.30	0.0000	0.00
24	1341.05	1340.95	0.0000	0.00
25	1374.83	1374.75	0.0000	0.00
26	1460.52	1460.49	0.0000	0.00
27	1582.21	1582.26	0.0000	0.00
28	1659.24	1659.33	0.0000	0.00
29	1763.65	1763.81	0.0000	0.00
30	2202.83	2203.29	0.0000	0.00
31	2271.21	2271.73	0.0000	0.00
32	2613.54	2614.31	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 3:47:08PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	25.42	21 -	28	24.67	6.79E+01	69.46	7.48E+02	2.09
M	2	64.30	58 -	81	63.57	2.29E+02	104.83	1.45E+03	4.13
m	3	76.14	58 -	81	75.41	7.57E+02	129.69	1.69E+03	4.15
M	4	86.92	82 -	96	86.19	2.00E+02	83.40	1.04E+03	3.38
m	5	92.73	82 -	96	92.00	2.67E+02	92.79	1.07E+03	3.01
	6	239.30	232 -	245	238.64	4.58E+02	92.18	7.36E+02	2.91
	7	295.97	290 -	301	295.33	1.86E+02	65.57	4.46E+02	2.54
	8	338.51	332 -	342	337.89	7.74E+01	52.96	3.25E+02	2.55
	9	351.94	345 -	357	351.33	3.03E+02	58.96	2.67E+02	2.52
	10	410.06	405 -	413	409.47	6.15E+01	33.52	1.35E+02	4.45
	11	462.97	458 -	466	462.41	3.16E+01	33.41	1.51E+02	2.01
	12	511.39	505 -	519	510.85	1.01E+02	45.76	1.71E+02	4.74
	13	570.24	565 -	574	569.72	4.22E+01	31.10	1.12E+02	2.89
	14	583.17	577 -	589	582.67	9.62E+01	45.71	1.98E+02	2.37
	15	609.20	603 -	614	608.71	1.73E+02	42.33	1.36E+02	2.37
	16	653.67	648 -	657	653.20	2.88E+01	24.54	6.85E+01	3.40
M	17	911.36	906 -	925	911.02	4.76E+01	24.47	6.26E+01	3.14
m	18	922.05	906 -	925	921.71	1.59E+01	19.26	3.26E+01	3.14
	19	941.26	938 -	943	940.93	1.67E+01	15.20	3.26E+01	1.86
	20	969.24	966 -	973	968.93	3.07E+01	23.07	6.05E+01	1.64
	21	1087.68	1083 -	1093	1087.44	2.12E+01	21.45	5.17E+01	4.73
	22	1119.51	1113 -	1124	1119.29	5.96E+01	26.76	5.88E+01	2.04
	23	1295.43	1292 -	1298	1295.30	1.14E+01	9.19	7.20E+00	1.53
	24	1341.05	1336 -	1345	1340.95	2.26E+01	11.18	4.80E+00	6.32
	25	1374.83	1369 -	1379	1374.75	2.15E+01	12.98	1.10E+01	5.82
	26	1460.52	1453 -	1466	1460.49	2.17E+02	34.42	3.60E+01	2.83
	27	1582.21	1578 -	1586	1582.26	1.20E+01	8.73	3.93E+00	3.67
	28	1659.24	1656 -	1662	1659.33	9.00E+00	6.00	0.00E+00	1.66
	29	1763.65	1759 -	1768	1763.81	3.20E+01	11.31	0.00E+00	3.63
	30	2202.83	2195 -	2208	2203.29	1.71E+01	11.53	7.81E+00	4.75
	31	2271.21	2268 -	2274	2271.73	7.28E+00	6.95	3.44E+00	1.61
	32	2613.54	2610 -	2618	2614.31	2.90E+01	10.77	0.00E+00	3.14

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 3:47:08PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	25.42	21 -	28	6.79E+01	69.46	7.48E+02	5.55E+01
M	2	64.30	58 -	81	2.29E+02	104.83	1.45E+03	6.27E+01
m	3	76.14	58 -	81	7.57E+02	129.69	1.69E+03	6.76E+01
M	4	86.92	82 -	96	2.00E+02	83.40	1.04E+03	5.31E+01
m	5	92.73	82 -	96	2.67E+02	92.79	1.07E+03	5.39E+01
	6	239.30	232 -	245	4.58E+02	92.18	7.36E+02	6.71E+01
	7	295.97	290 -	301	1.86E+02	65.57	4.46E+02	4.90E+01
	8	338.51	332 -	342	7.74E+01	52.96	3.25E+02	4.11E+01
	9	351.94	345 -	357	3.03E+02	58.96	2.67E+02	3.91E+01
	10	410.06	405 -	413	6.15E+01	33.52	1.35E+02	2.44E+01
	11	462.97	458 -	466	3.16E+01	33.41	1.51E+02	2.59E+01
	12	511.39	505 -	519	1.01E+02	45.76	1.71E+02	3.38E+01
	13	570.24	565 -	574	4.22E+01	31.10	1.12E+02	2.32E+01
	14	583.17	577 -	589	9.62E+01	45.71	1.98E+02	3.39E+01
	15	609.20	603 -	614	1.73E+02	42.33	1.36E+02	2.73E+01
	16	653.67	648 -	657	2.88E+01	24.54	6.85E+01	1.81E+01
M	17	911.36	906 -	925	4.76E+01	24.47	6.26E+01	1.30E+01
m	18	922.05	906 -	925	1.59E+01	19.26	3.26E+01	9.39E+00
	19	941.26	938 -	943	1.67E+01	15.20	3.26E+01	1.05E+01
	20	969.24	966 -	973	3.07E+01	23.07	6.05E+01	1.66E+01
	21	1087.68	1083 -	1093	2.12E+01	21.45	5.17E+01	1.59E+01
	22	1119.51	1113 -	1124	5.96E+01	26.76	5.88E+01	1.80E+01
	23	1295.43	1292 -	1298	1.14E+01	9.19	7.20E+00	5.13E+00
	24	1341.05	1336 -	1345	2.26E+01	11.18	4.80E+00	4.84E+00
	25	1374.83	1369 -	1379	2.15E+01	12.98	1.10E+01	7.47E+00
	26	1460.52	1453 -	1466	2.17E+02	34.42	3.60E+01	1.46E+01
	27	1582.21	1578 -	1586	1.20E+01	8.73	3.93E+00	4.36E+00
	28	1659.24	1656 -	1662	9.00E+00	6.00	0.00E+00	0.00E+00
	29	1763.65	1759 -	1768	3.20E+01	11.31	0.00E+00	0.00E+00
	30	2202.83	2195 -	2208	1.71E+01	11.53	7.81E+00	6.61E+00
	31	2271.21	2268 -	2274	7.28E+00	6.95	3.44E+00	3.60E+00

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	2613.54	2610 -	2618	2.90E+01	10.77	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 3:47:08PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	25.42	21 -	28	24.67	6.79E+01	69.46	7.48E+02	TH-231
M	2	64.30	58 -	81	63.57	2.29E+02	104.83	1.45E+03	.....
m	3	76.14	58 -	81	75.41	7.57E+02	129.69	1.69E+03	.....
M	4	86.92	82 -	96	86.19	2.00E+02	83.40	1.04E+03	NP-237
									EU-155
									SN-126
m	5	92.73	82 -	96	92.00	2.67E+02	92.79	1.07E+03	GA-67
	6	239.30	232 -	245	238.64	4.58E+02	92.18	7.36E+02	PB-212
	7	295.97	290 -	301	295.33	1.86E+02	65.57	4.46E+02	PB-214
	8	338.51	332 -	342	337.89	7.74E+01	52.96	3.25E+02	AC-228
	9	351.94	345 -	357	351.33	3.03E+02	58.96	2.67E+02	PB-214
	10	410.06	405 -	413	409.47	6.15E+01	33.52	1.35E+02	HO-166M
	11	462.97	458 -	466	462.41	3.16E+01	33.41	1.51E+02	SB-125
	12	511.39	505 -	519	510.85	1.01E+02	45.76	1.71E+02	.....
	13	570.24	565 -	574	569.72	4.22E+01	31.10	1.12E+02	BI-207
									CS-134
	14	583.17	577 -	589	582.67	9.62E+01	45.71	1.98E+02	TL-208
	15	609.20	603 -	614	608.71	1.73E+02	42.33	1.36E+02	BI-214
	16	653.67	648 -	657	653.20	2.88E+01	24.54	6.85E+01	.....
M	17	911.36	906 -	925	911.02	4.76E+01	24.47	6.26E+01	AC-228
									LU-172
m	18	922.05	906 -	925	921.71	1.59E+01	19.26	3.26E+01	.....
	19	941.26	938 -	943	940.93	1.67E+01	15.20	3.26E+01	.....
	20	969.24	966 -	973	968.93	3.07E+01	23.07	6.05E+01	AC-228
	21	1087.68	1083 -	1093	1087.44	2.12E+01	21.45	5.17E+01	.....

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
22	1119.51	1113 -	1124	1119.29	5.96E+01	26.76	5.88E+01	BI-214 SC-46
23	1295.43	1292 -	1298	1295.30	1.14E+01	9.19	7.20E+00	.....
24	1341.05	1336 -	1345	1340.95	2.26E+01	11.18	4.80E+00	.....
25	1374.83	1369 -	1379	1374.75	2.15E+01	12.98	1.10E+01	.....
26	1460.52	1453 -	1466	1460.49	2.17E+02	34.42	3.60E+01	K-40
27	1582.21	1578 -	1586	1582.26	1.20E+01	8.73	3.93E+00	.....
28	1659.24	1656 -	1662	1659.33	9.00E+00	6.00	0.00E+00	.....
29	1763.65	1759 -	1768	1763.81	3.20E+01	11.31	0.00E+00	BI-214
30	2202.83	2195 -	2208	2203.29	1.71E+01	11.53	7.81E+00	.....
31	2271.21	2268 -	2274	2271.73	7.28E+00	6.95	3.44E+00	.....
32	2613.54	2610 -	2618	2614.31	2.90E+01	10.77	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 3:47:08PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	25.42	6.79E+01	69.46	3.01E-02	1.78E-03
M	2	64.30	2.29E+02	104.83	2.31E-02	1.76E-03
m	3	76.14	7.57E+02	129.69	2.12E-02	1.69E-03
M	4	86.92	2.00E+02	83.40	1.98E-02	1.64E-03
m	5	92.73	2.67E+02	92.79	1.90E-02	1.62E-03
	6	239.30	4.58E+02	92.18	9.39E-03	9.85E-04
	7	295.97	1.86E+02	65.57	7.77E-03	8.42E-04
	8	338.51	7.74E+01	52.96	6.86E-03	7.95E-04
	9	351.94	3.03E+02	58.96	6.61E-03	7.80E-04
	10	410.06	6.15E+01	33.52	5.71E-03	7.09E-04
	11	462.97	3.16E+01	33.41	5.08E-03	6.32E-04
	12	511.39	1.01E+02	45.76	4.61E-03	5.61E-04
	13	570.24	4.22E+01	31.10	4.14E-03	4.74E-04
	14	583.17	9.62E+01	45.71	4.05E-03	4.55E-04
	15	609.20	1.73E+02	42.33	3.88E-03	4.17E-04
	16	653.67	2.88E+01	24.54	3.62E-03	3.52E-04
M	17	911.36	4.76E+01	24.47	2.61E-03	2.06E-04
m	18	922.05	1.59E+01	19.26	2.58E-03	2.05E-04

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
19	941.26	1.67E+01	15.20	2.53E-03	2.02E-04
20	969.24	3.07E+01	23.07	2.46E-03	1.99E-04
21	1087.68	2.12E+01	21.45	2.20E-03	1.84E-04
22	1119.51	5.96E+01	26.76	2.15E-03	1.80E-04
23	1295.43	1.14E+01	9.19	1.87E-03	2.06E-04
24	1341.05	2.26E+01	11.18	1.82E-03	2.14E-04
25	1374.83	2.15E+01	12.98	1.78E-03	2.07E-04
26	1460.52	2.17E+02	34.42	1.68E-03	1.89E-04
27	1582.21	1.20E+01	8.73	1.57E-03	1.64E-04
28	1659.24	9.00E+00	6.00	1.51E-03	1.48E-04
29	1763.65	3.20E+01	11.31	1.44E-03	1.26E-04
30	2202.83	1.71E+01	11.53	1.21E-03	1.11E-04
31	2271.21	7.28E+00	6.95	1.18E-03	1.11E-04
32	2613.54	2.90E+01	10.77	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 3:47:08PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	25.42	6.79E+01	69.46			6.79E+01	6.95E+01
M	2	64.30	2.29E+02	104.83	3.87E+01	8.57E+00	1.91E+02	1.05E+02
m	3	76.14	7.57E+02	129.69			7.57E+02	1.30E+02
M	4	86.92	2.00E+02	83.40			2.00E+02	8.34E+01
m	5	92.73	2.67E+02	92.79	5.30E+01	1.67E+01	2.14E+02	9.43E+01
	6	239.30	4.58E+02	92.18	4.80E+00	4.74E+00	4.53E+02	9.23E+01
	7	295.97	1.86E+02	65.57			1.86E+02	6.56E+01
	8	338.51	7.74E+01	52.96			7.74E+01	5.30E+01
	9	351.94	3.03E+02	58.96			3.03E+02	5.90E+01
	10	410.06	6.15E+01	33.52			6.15E+01	3.35E+01
	11	462.97	3.16E+01	33.41			3.16E+01	3.34E+01
	12	511.39	1.01E+02	45.76	4.72E+01	4.90E+00	5.33E+01	4.60E+01
	13	570.24	4.22E+01	31.10			4.22E+01	3.11E+01
	14	583.17	9.62E+01	45.71			9.62E+01	4.57E+01
	15	609.20	1.73E+02	42.33			1.73E+02	4.23E+01
	16	653.67	2.88E+01	24.54			2.88E+01	2.45E+01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	17	911.36	4.76E+01	24.47			4.76E+01	2.45E+01
m	18	922.05	1.59E+01	19.26			1.59E+01	1.93E+01
	19	941.26	1.67E+01	15.20			1.67E+01	1.52E+01
	20	969.24	3.07E+01	23.07			3.07E+01	2.31E+01
	21	1087.68	2.12E+01	21.45			2.12E+01	2.15E+01
	22	1119.51	5.96E+01	26.76			5.96E+01	2.68E+01
	23	1295.43	1.14E+01	9.19			1.14E+01	9.19E+00
	24	1341.05	2.26E+01	11.18			2.26E+01	1.12E+01
	25	1374.83	2.15E+01	12.98			2.15E+01	1.30E+01
	26	1460.52	2.17E+02	34.42			2.17E+02	3.44E+01
	27	1582.21	1.20E+01	8.73			1.20E+01	8.73E+00
	28	1659.24	9.00E+00	6.00			9.00E+00	6.00E+00
	29	1763.65	3.20E+01	11.31			3.20E+01	1.13E+01
	30	2202.83	1.71E+01	11.53			1.71E+01	1.15E+01
	31	2271.21	7.28E+00	6.95			7.28E+00	6.95E+00
	32	2613.54	2.90E+01	10.77	5.52E-01	9.86E-01	2.84E+01	1.08E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 3:47:08PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	25.42	6.79E+01	69.46			6.79E+01	6.95E+01
M	2	64.30	2.29E+02	104.83	3.87E+01	8.57E+00	1.91E+02	1.05E+02
m	3	76.14	7.57E+02	129.69			7.57E+02	1.30E+02
M	4	86.92	2.00E+02	83.40			2.00E+02	8.34E+01
m	5	92.73	2.67E+02	92.79	5.30E+01	1.67E+01	2.14E+02	9.43E+01
	6	239.30	4.58E+02	92.18	4.80E+00	4.74E+00	4.53E+02	9.23E+01
	7	295.97	1.86E+02	65.57			1.86E+02	6.56E+01
	8	338.51	7.74E+01	52.96			7.74E+01	5.30E+01
	9	351.94	3.03E+02	58.96			3.03E+02	5.90E+01
	10	410.06	6.15E+01	33.52			6.15E+01	3.35E+01
	11	462.97	3.16E+01	33.41			3.16E+01	3.34E+01
	12	511.39	1.01E+02	45.76	4.72E+01	4.90E+00	5.33E+01	4.60E+01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	13	570.24	4.22E+01	31.10			4.22E+01	3.11E+01
	14	583.17	9.62E+01	45.71			9.62E+01	4.57E+01
	15	609.20	1.73E+02	42.33			1.73E+02	4.23E+01
	16	653.67	2.88E+01	24.54			2.88E+01	2.45E+01
M	17	911.36	4.76E+01	24.47			4.76E+01	2.45E+01
m	18	922.05	1.59E+01	19.26			1.59E+01	1.93E+01
	19	941.26	1.67E+01	15.20			1.67E+01	1.52E+01
	20	969.24	3.07E+01	23.07			3.07E+01	2.31E+01
	21	1087.68	2.12E+01	21.45			2.12E+01	2.15E+01
	22	1119.51	5.96E+01	26.76			5.96E+01	2.68E+01
	23	1295.43	1.14E+01	9.19			1.14E+01	9.19E+00
	24	1341.05	2.26E+01	11.18			2.26E+01	1.12E+01
	25	1374.83	2.15E+01	12.98			2.15E+01	1.30E+01
	26	1460.52	2.17E+02	34.42			2.17E+02	3.44E+01
	27	1582.21	1.20E+01	8.73			1.20E+01	8.73E+00
	28	1659.24	9.00E+00	6.00			9.00E+00	6.00E+00
	29	1763.65	3.20E+01	11.31			3.20E+01	1.13E+01
	30	2202.83	1.71E+01	11.53			1.71E+01	1.15E+01
	31	2271.21	7.28E+00	6.95			7.28E+00	6.95E+00
	32	2613.54	2.90E+01	10.77	5.52E-01	9.86E-01	2.84E+01	1.08E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.987	1460.81	*	10.67	1.43E+01	2.80E+00
SN-126	0.934	87.57	*	37.00	3.25E-01	1.38E-01
EU-155	0.364	86.50	*	30.90	3.95E-01	1.68E-01
		105.30		20.70		
BI-207	0.394	569.67	*	97.72	1.24E-01	9.24E-02
		1063.62		74.90		
TL-208	0.323	583.14	*	30.22	9.32E-01	4.55E-01
		860.37		4.48		
		2614.66		35.85		
PB-212	0.832	238.63	*	44.60	1.28E+00	2.94E-01
		300.09		3.41		

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.897	609.31	*	46.30	1.14E+00	3.05E-01
		1120.29	*	15.10	2.18E+00	9.96E-01
		1764.49	*	15.80	1.67E+00	6.09E-01
		2204.22		4.98		
PB-214	0.969	295.21	*	19.19	1.48E+00	5.45E-01
		351.92	*	37.19	1.46E+00	3.32E-01
AC-228	0.991	338.32	*	11.40	1.17E+00	8.14E-01
		911.07	*	27.70	7.81E-01	4.06E-01
		969.11	*	16.60	8.92E-01	6.73E-01
TH-231	0.575	25.64	*	14.70	1.82E-01	1.86E-01
		84.21		6.40		
NP-237	0.973	86.50	*	12.60	9.53E-01	4.05E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 3:47:08PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	2	64.30	5.29449E-02	27.59		
m	3	76.14	2.10400E-01	8.56		
m	5	92.73	5.93205E-02	22.08	Tol.	GA-67
	10	410.06	1.70833E-02	27.25	Tol.	HO-166M
	11	462.97	8.77596E-03	52.88	Tol.	SB-125
	12	511.39	1.48092E-02	43.16		
	16	653.67	7.98942E-03	42.65		
m	18	922.05	4.42721E-03	60.43	Sum	
	19	941.26	4.63384E-03	45.55		
	21	1087.68	5.87766E-03	50.69		
	23	1295.43	3.16667E-03	40.32		
	24	1341.05	6.27778E-03	24.74		
	25	1374.83	5.97222E-03	30.19		
	27	1582.21	3.34325E-03	36.28		
	28	1659.24	2.50000E-03	33.33		
	30	2202.83	4.74868E-03	33.73		
	31	2271.21	2.02160E-03	47.72		

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
32	2613.54	7.90209E-03	19.01		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	1.43E+01	2.80E+00
SN-126	0.93	87.57	*	37.00	3.25E-01	1.38E-01
EU-155	0.36	86.50	*	30.90	3.95E-01	1.68E-01
		105.30		20.70		
BI-207	0.39	569.67	*	97.72	1.24E-01	9.24E-02
		1063.62		74.90		
TL-208	0.32	583.14	*	30.22	9.32E-01	4.55E-01
		860.37		4.48		
		2614.66		35.85		
PB-212	0.83	238.63	*	44.60	1.28E+00	2.94E-01
		300.09		3.41		
BI-214	0.89	609.31	*	46.30	1.14E+00	3.05E-01
		1120.29	*	15.10	2.18E+00	9.96E-01
		1764.49	*	15.80	1.67E+00	6.09E-01
		2204.22		4.98		
PB-214	0.96	295.21	*	19.19	1.48E+00	5.45E-01
		351.92	*	37.19	1.46E+00	3.32E-01
AC-228	0.99	338.32	*	11.40	1.17E+00	8.14E-01
		911.07	*	27.70	7.81E-01	4.06E-01
		969.11	*	16.60	8.92E-01	6.73E-01
TH-231	0.57	25.64	*	14.70	1.82E-01	1.86E-01
		84.21		6.40		
NP-237	0.97	86.50	*	12.60	9.53E-01	4.05E-01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.987	1.43E+01	2.80E+00	
?	SN-126	0.934	3.25E-01	1.38E-01	
?	EU-155	0.364	3.95E-01	1.68E-01	
	BI-207	0.394	1.24E-01	9.24E-02	
	TL-208	0.323	9.32E-01	4.55E-01	
	PB-212	0.832	1.28E+00	2.94E-01	
	BI-214	0.897	1.31E+00	2.63E-01	
	PB-214	0.969	1.46E+00	2.84E-01	
	AC-228	0.991	8.66E-01	3.20E-01	
	TH-231	0.575	1.82E-01	1.86E-01	
?	NP-237	0.973	9.53E-01	4.05E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 3:47:08PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	2	64.30	5.29449E-02	27.59		
m	3	76.14	2.10400E-01	8.56		
m	5	92.73	5.93205E-02	22.08	Tol.	GA-67
	10	410.06	1.70833E-02	27.25	Tol.	HO-166M
	11	462.97	8.77596E-03	52.88	Tol.	SB-125
	12	511.39	1.48092E-02	43.16		
	16	653.67	7.98942E-03	42.65		
m	18	922.05	4.42721E-03	60.43	Sum	
	19	941.26	4.63384E-03	45.55		
	21	1087.68	5.87766E-03	50.69		
	23	1295.43	3.16667E-03	40.32		
	24	1341.05	6.27778E-03	24.74		
	25	1374.83	5.97222E-03	30.19		
	27	1582.21	3.34325E-03	36.28		
	28	1659.24	2.50000E-03	33.33		
	30	2202.83	4.74868E-03	33.73		
	31	2271.21	2.02160E-03	47.72		
	32	2613.54	7.90209E-03	19.01		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

+		BE-7	477.59		10.42	7.77E-01	1.70E+00	1.70E+00
+		NA-22	1274.54		99.94	-3.26E-02	1.47E-01	1.47E-01
+		NA-24	1368.53		99.99	1.32E+17	2.20E+18	3.38E+18
			2754.09		99.86	2.99E+17		2.20E+18
+		AL-26	1808.65		99.76	-1.44E-02	1.41E-01	1.41E-01
+		K-40	1460.81	*	10.67	1.43E+01	2.11E+00	2.11E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	-1.55E-01	7.84E-02	7.84E-02
			78.34		96.00	2.49E-01		9.92E-02
+		SC-46	889.25		99.98	-1.81E-01	1.94E-01	1.94E-01
			1120.51		99.99	2.74E-01		3.28E-01
+		V-48	983.52		99.98	3.57E-01	9.03E-01	9.03E-01
			1312.10		97.50	2.85E-01		9.62E-01
+		CR-51	320.08		9.83	-5.21E-01	2.94E+00	2.94E+00
+		MN-54	834.83		99.97	-4.02E-03	1.64E-01	1.64E-01
+		CO-56	846.75		99.96	-6.19E-02	1.98E-01	1.98E-01
			1037.75		14.03	-1.18E-01		1.56E+00
			1238.25		67.00	3.66E-02		4.29E-01
			1771.40		15.51	-8.46E-02		1.14E+00
			2598.48		16.90	9.29E-02		1.00E+00
+		CO-57	122.06		85.51	-3.24E-02	9.88E-02	9.88E-02
			136.48		10.60	-3.89E-02		8.71E-01
+		CO-58	810.76		99.40	4.72E-02	1.92E-01	1.92E-01
+		FE-59	1099.22		56.50	-6.57E-03	5.14E-01	5.14E-01
			1291.56		43.20	6.09E-02		5.82E-01
+		CO-60	1173.22		100.00	3.26E-02	1.48E-01	2.03E-01
			1332.49		100.00	6.94E-03		1.48E-01
+		ZN-65	1115.52		50.75	-2.79E-02	4.75E-01	4.75E-01
+		GA-67	93.31		35.70	7.87E+02	1.24E+03	1.24E+03
			208.95		2.24	1.69E+04		2.41E+04
			300.22		16.00	-1.92E+02		3.77E+03
+		SE-75	121.11		16.70	-9.90E-02	1.78E-01	5.75E-01
			136.00		59.20	2.55E-03		1.78E-01
			264.65		59.80	-1.71E-01		1.92E-01
			279.53		25.20	8.68E-02		4.61E-01
			400.65		11.40	4.26E-01		1.22E+00
+		RB-82	776.52		13.00	-1.24E+00	2.70E+00	2.70E+00
+		RB-83	520.41		46.00	-7.71E-03	3.02E-01	3.02E-01
			529.64		30.30	-8.81E-02		5.06E-01
			552.65		16.40	2.82E-01		1.03E+00
+		KR-85	513.99		0.43	4.01E+01	3.38E+01	3.38E+01
+		SR-85	513.99		99.27	2.68E-01	2.26E-01	2.26E-01
+		Y-88	898.02		93.40	1.12E-01	1.94E-01	2.26E-01
			1836.01		99.38	-2.71E-02		1.94E-01
+		NB-93M	16.57		9.43	7.81E-01	3.88E-01	3.88E-01
+		NB-94	702.63		100.00	7.86E-02	1.43E-01	1.47E-01
			871.10		100.00	8.83E-02		1.43E-01
+		NB-95	765.79		99.81	-3.75E-02	3.25E-01	3.25E-01
+		NB-95M	235.69		25.00	2.35E+03	1.33E+03	1.33E+03
+		ZR-95	724.18		43.70	2.03E-01	3.44E-01	5.13E-01
			756.72		55.30	-1.00E-01		3.44E-01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	MO-99	181.06		6.20	-4.16E+04	2.80E+04	3.77E+04
		739.58		12.80	1.59E+03		2.80E+04
		778.00		4.50	-5.54E+04		6.29E+04
+	RU-103	497.08		89.00	-1.14E-01	2.47E-01	2.47E-01
+	RU-106	621.84		9.80	4.36E-01	1.40E+00	1.40E+00
+	AG-108M	433.93		89.90	4.87E-02	1.31E-01	1.31E-01
		614.37		90.40	1.96E-02		1.63E-01
		722.95		90.50	6.22E-02		1.56E-01
+	CD-109	88.03		3.72	5.65E-01	2.42E+00	2.42E+00
+	AG-110M	657.75		93.14	-9.29E-03	1.58E-01	1.58E-01
		677.61		10.53	1.78E-01		1.22E+00
		706.67		16.46	-4.62E-01		9.17E-01
		763.93		21.98	-2.87E-02		7.30E-01
		884.67		71.63	6.89E-02		2.21E-01
		1384.27		23.94	-2.99E-01		6.11E-01
+	CD-113M	263.70		0.02	-2.51E+02	4.06E+02	4.06E+02
+	SN-113	255.12		1.93	7.58E-01	2.06E-01	6.27E+00
		391.69		64.90	-1.08E-03		2.06E-01
+	TE123M	159.00		84.10	-8.44E-03	1.31E-01	1.31E-01
+	SB-124	602.71		97.87	2.08E-02	2.05E-01	2.05E-01
		645.85		7.26	4.29E-01		2.81E+00
		722.78		11.10	-4.70E-01		1.88E+00
		1691.02		49.00	2.59E-02		3.89E-01
+	I-125	35.49		6.49	5.29E-01	1.06E+00	1.06E+00
+	SB-125	176.33		6.89	-2.46E-01	3.82E-01	1.31E+00
		427.89		29.33	-1.77E-01		3.82E-01
		463.38		10.35	6.21E-01		1.19E+00
		600.56		17.80	0.00E+00		7.05E-01
		635.90		11.32	-2.68E-01		1.10E+00
+	SB-126	414.70		83.30	3.87E-04	1.15E+00	1.32E+00
		666.33		99.60	-1.39E-01		1.15E+00
		695.00		99.60	-5.17E-01		1.32E+00
		720.50		53.80	-2.73E+00		2.19E+00
+	SN-126	87.57	*	37.00	3.25E-01	3.43E-01	3.43E-01
+	SB-127	473.00		25.00	-9.25E+00	4.68E+02	5.89E+02
		685.20		35.70	-4.53E+01		4.68E+02
		783.80		14.70	1.44E+02		1.22E+03
+	I-129	29.78		57.00	-4.90E-03	7.21E-02	7.21E-02
		33.60		13.20	-1.42E-01		3.12E-01
		39.58		7.52	-5.52E-01		5.87E-01
+	I-131	284.30		6.05	-2.80E+01	4.05E+00	4.52E+01
		364.48		81.20	6.64E-01		4.05E+00
		636.97		7.26	-1.87E+01		5.34E+01
		722.89		1.80	-5.89E+01		2.36E+02
+	TE-132	49.72		13.10	9.19E+02	5.84E+02	2.25E+03
		228.16		88.00	-1.44E+02		5.84E+02
+	BA-133	81.00		33.00	-3.60E-01	2.63E-01	2.64E-01
		302.84		17.80	-1.62E-02		6.06E-01
		356.01		60.00	1.32E-02		2.63E-01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		I-133	529.87	86.30	-2.25E+12	1.29E+13	1.29E+13
+		CS-134	563.23	8.38	-4.92E-02	1.75E-01	1.51E+00
			569.32	15.43	5.26E-01		9.29E-01
			604.70	97.60	4.50E-03		1.77E-01
			795.84	85.40	3.99E-02		1.75E-01
			801.93	8.73	3.90E-02		1.60E+00
+		CS-135	268.24	16.00	1.80E-01	6.14E-01	6.14E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	-4.32E-01	1.11E+00	9.63E+00
			163.89	4.61	2.96E-01		1.59E+01
			176.55	13.56	-1.02E+00		5.42E+00
			273.65	12.66	2.95E+00		6.73E+00
			340.57	48.50	4.75E-02		2.05E+00
			818.50	99.70	-7.53E-02		1.11E+00
			1048.07	79.60	3.17E-01		1.71E+00
			1235.34	19.70	2.23E+00		9.06E+00
+		CS-137	661.65	85.12	6.89E-02	1.53E-01	1.53E-01
+		LA-138	788.74	34.00	-2.01E-02	2.52E-01	3.93E-01
			1435.80	66.00	9.67E-02		2.52E-01
+		CE-139	165.85	80.35	-2.73E-02	1.33E-01	1.33E-01
+		BA-140	162.64	6.70	-4.59E-01	3.78E+00	1.16E+01
			304.84	4.50	-5.65E+00		2.00E+01
			423.70	3.20	1.21E+01		3.15E+01
			437.55	2.00	2.20E+01		5.27E+01
			537.32	25.00	9.40E-01		3.78E+00
+		LA-140	328.77	20.50	6.01E-01	1.06E+00	4.79E+00
			487.03	45.50	2.86E-01		2.21E+00
			815.85	23.50	-1.71E-01		4.72E+00
			1596.49	95.49	-2.53E-01		1.06E+00
+		CE-141	145.44	48.40	1.05E-01	4.22E-01	4.22E-01
+		CE-143	57.36	11.80	7.71E+07	2.10E+08	3.53E+08
			293.26	42.00	3.37E+08		2.10E+08
			664.55	5.20	1.20E+09		1.65E+09
+		CE-144	133.54	10.80	3.21E-02	8.43E-01	8.43E-01
+		PM-144	476.78	42.00	9.76E-02	1.33E-01	2.75E-01
			618.01	98.60	4.32E-02		1.33E-01
			696.49	99.49	1.01E-02		1.58E-01
+		PM-145	36.85	21.70	9.30E-02	1.10E-01	2.02E-01
			37.36	39.70	4.23E-03		1.10E-01
			42.30	15.10	-5.39E-02		3.20E-01
			72.40	2.31	5.94E+00		3.98E+00
+		PM-146	453.90	39.94	1.33E-01	2.97E-01	2.97E-01
			735.90	14.01	7.28E-01		1.09E+00
			747.13	13.10	3.15E-01		9.91E-01
+		ND-147	91.11	28.90	9.04E+00	3.98E+00	3.98E+00
			531.02	13.10	3.90E+00		1.10E+01
+		PM-149	285.90	3.10	-2.93E+05	8.65E+05	8.65E+05

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	EU-152	121.78		20.50	-1.22E-01	3.73E-01	3.73E-01
		244.69		5.40	1.51E-01		2.10E+00
		344.27		19.13	1.46E-02		4.86E-01
		778.89		9.20	-1.06E+00		1.20E+00
		964.01		10.40	1.39E-01		1.93E+00
		1085.78		7.22	1.41E-02		2.32E+00
		1112.02		9.60	-1.39E-01		1.85E+00
		1407.95		14.94	5.16E-01		1.12E+00
+	GD-153	97.43		31.30	5.27E-02	2.68E-01	2.68E-01
		103.18		22.20	-6.09E-02		3.65E-01
+	EU-154	123.07		40.50	-9.04E-02	1.90E-01	1.90E-01
		723.30		19.70	2.88E-01		7.24E-01
		873.19		11.50	-1.60E-01		1.09E+00
		996.32		10.30	6.27E-01		1.50E+00
		1004.76		17.90	-4.13E-01		8.38E-01
		1274.45		35.50	-9.00E-02		4.07E-01
+	EU-155	86.50	*	30.90	3.95E-01	3.57E-01	4.17E-01
		105.30		20.70	-1.50E-01		3.57E-01
+	EU-156	811.77		10.40	-2.58E+00	7.22E+00	7.22E+00
		1153.47		7.20	7.36E+00		1.67E+01
		1230.71		8.90	2.43E+00		1.53E+01
+	HO-166M	184.41		72.60	7.95E-02	1.37E-01	1.37E-01
		280.45		29.60	-9.83E-03		3.06E-01
		410.94		11.10	3.66E-01		1.06E+00
		711.69		54.10	-2.26E-02		2.45E-01
+	TM-171	66.72		0.14	-8.66E+00	5.52E+01	5.52E+01
+	HF-172	81.75		4.52	-6.75E+00	7.33E-01	1.85E+00
		125.81		11.30	2.95E-01		7.33E-01
+	LU-172	181.53		20.60	1.03E+00	1.84E+01	2.97E+01
		810.06		16.63	1.23E+01		5.01E+01
		912.12		15.25	1.20E+02		9.22E+01
		1093.66		62.50	2.01E+00		1.84E+01
+	LU-173	100.72		5.24	-4.06E-02	5.13E-01	1.43E+00
		272.11		21.20	3.21E-01		5.13E-01
+	HF-175	343.40		84.00	4.93E-03	1.70E-01	1.70E-01
+	LU-176	88.34		13.30	1.22E+00	1.06E-01	6.66E-01
		201.83		86.00	-3.91E-02		1.13E-01
		306.78		94.00	-4.63E-02		1.06E-01
+	TA-182	67.75		41.20	-4.52E-01	2.29E-01	2.29E-01
		1121.30		34.90	5.67E-01		8.48E-01
		1189.05		16.23	-8.64E-01		1.33E+00
		1221.41		26.98	-5.02E-01		8.22E-01
		1231.02		11.44	3.84E-01		2.42E+00
+	IR-192	308.46		29.68	-1.28E-01	3.19E-01	4.82E-01
		468.07		48.10	-4.36E-03		3.19E-01
+	HG-203	279.19		77.30	4.08E-02	2.17E-01	2.17E-01
+	BI-207	569.67	*	97.72	1.24E-01	1.44E-01	1.44E-01
		1063.62		74.90	-1.26E-02		2.07E-01
+	TL-208	583.14	*	30.22	9.32E-01	6.84E-01	6.84E-01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	860.37		4.48	1.20E+00	6.84E-01	3.44E+00
		2614.66		35.85	0.00E+00		8.56E-01
+	BI-210M	262.00		45.00	-8.78E-02	2.01E-01	2.01E-01
		300.00		23.00	2.34E-02		5.54E-01
+	PB-210	46.50		4.25	4.13E-01	1.23E+00	1.23E+00
+	PB-211	404.84		2.90	9.50E-01	3.81E+00	3.81E+00
		831.96		2.90	1.65E+00		5.33E+00
+	BI-212	727.17		11.80	9.14E-02	1.21E+00	1.21E+00
		1620.62		2.75	3.52E-01		4.66E+00
+	PB-212	238.63	*	44.60	1.28E+00	3.89E-01	3.89E-01
		300.09		3.41	1.58E-01		3.74E+00
+	BI-214	609.31	*	46.30	1.14E+00	1.41E-01	3.78E-01
		1120.29	*	15.10	2.18E+00		1.41E+00
		1764.49	*	15.80	1.67E+00		1.41E-01
		2204.22		4.98	-1.97E-01		4.32E+00
+	PB-214	295.21	*	19.19	1.48E+00	3.90E-01	8.01E-01
		351.92	*	37.19	1.46E+00		3.90E-01
+	RN-219	401.80		6.50	9.15E-01	1.69E+00	1.69E+00
+	RA-223	323.87		3.88	5.20E-01	2.81E+00	2.81E+00
+	RA-224	240.98		3.95	1.38E+01	3.98E+00	3.98E+00
+	RA-225	40.00		31.00	-8.87E-01	9.44E-01	9.44E-01
+	RA-226	186.21		3.28	3.30E+00	3.11E+00	3.11E+00
+	TH-227	50.10		8.40	2.71E-01	6.62E-01	6.62E-01
		236.00		11.50	2.22E+00		1.26E+00
		256.20		6.30	9.42E-01		1.54E+00
+	AC-228	338.32	*	11.40	1.17E+00	1.03E+00	1.29E+00
		911.07	*	27.70	7.81E-01		1.03E+00
		969.11	*	16.60	8.92E-01		1.04E+00
+	TH-230	48.44		16.90	1.45E-01	3.21E-01	3.21E-01
		62.85		4.60	1.63E+00		1.55E+00
		67.67		0.37	-3.94E+01		2.00E+01
+	PA-231	283.67		1.60	-2.23E+00	4.65E+00	5.39E+00
		302.67		2.30	-1.24E-01		4.65E+00
+	TH-231	25.64	*	14.70	1.82E-01	3.05E-01	3.05E-01
		84.21		6.40	-4.21E+00		1.22E+00
+	PA-233	311.98		38.60	2.10E-03	7.30E-01	7.30E-01
+	PA-234	131.20		20.40	-1.29E-01	3.95E-01	3.95E-01
		733.99		8.80	-2.23E-01		1.61E+00
		946.00		12.00	-3.22E-01		1.29E+00
+	PA-234M	1001.03		0.92	-5.08E-01	1.61E+01	1.61E+01
+	TH-234	63.29		3.80	1.96E+00	1.90E+00	1.90E+00
+	U-235	143.76		10.50	2.81E-01	8.29E-01	8.29E-01
		163.35		4.70	3.47E-02		1.86E+00
		205.31		4.70	7.21E-01		2.17E+00
+	NP-237	86.50	*	12.60	9.53E-01	1.01E+00	1.01E+00
+	NP-239	106.10		22.70	-1.92E+04	4.58E+04	4.58E+04
		228.18		10.70	1.55E+04		1.30E+05
		277.60		14.10	1.84E+04		9.53E+04

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54	35.90	7.87E-03	1.85E-01	1.85E-01
+	AM-243	74.67	66.00	5.86E-01	1.49E-01	1.49E-01
+	CM-243	209.75	3.29	1.22E+00	6.77E-01	3.04E+00
		228.14	10.60	-2.25E-01		9.17E-01
		277.60	14.00	1.31E-01		6.77E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.70E+00	1.70E+00	7.77E-01	7.95E-01
	NA-22	1274.54		99.94	1.47E-01	1.47E-01	-3.26E-02	6.51E-02
	NA-24	1368.53		99.99	3.38E+18	2.20E+18	1.32E+17	1.46E+18
		2754.09		99.86	2.20E+18		2.99E+17	6.96E+17
	AL-26	1808.65		99.76	1.41E-01	1.41E-01	-1.44E-02	5.90E-02
+	K-40	1460.81	*	10.67	2.11E+00	2.11E+00	1.43E+01	9.66E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.84E-02	7.84E-02	-1.55E-01	3.85E-02
		78.34		96.00	9.92E-02		2.49E-01	4.88E-02
	SC-46	889.25		99.98	1.94E-01	1.94E-01	-1.81E-01	8.87E-02
		1120.51		99.99	3.28E-01		2.74E-01	1.53E-01
	V-48	983.52		99.98	9.03E-01	9.03E-01	3.57E-01	4.14E-01
		1312.10		97.50	9.62E-01		2.85E-01	4.30E-01
	CR-51	320.08		9.83	2.94E+00	2.94E+00	-5.21E-01	1.41E+00
	MN-54	834.83		99.97	1.64E-01	1.64E-01	-4.02E-03	7.57E-02
	CO-56	846.75		99.96	1.98E-01	1.98E-01	-6.19E-02	9.09E-02
		1037.75		14.03	1.56E+00		-1.18E-01	7.09E-01
		1238.25		67.00	4.29E-01		3.66E-02	1.97E-01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	1771.40	15.51	1.14E+00	1.98E-01	-8.46E-02	4.69E-01
	2598.48	16.90	1.00E+00		9.29E-02	3.74E-01
CO-57	122.06	85.51	9.88E-02	9.88E-02	-3.24E-02	4.81E-02
	136.48	10.60	8.71E-01		-3.89E-02	4.24E-01
CO-58	810.76	99.40	1.92E-01	1.92E-01	4.72E-02	8.79E-02
FE-59	1099.22	56.50	5.14E-01	5.14E-01	-6.57E-03	2.33E-01
	1291.56	43.20	5.82E-01		6.09E-02	2.54E-01
CO-60	1173.22	100.00	2.03E-01	1.48E-01	3.26E-02	9.34E-02
	1332.49	100.00	1.48E-01		6.94E-03	6.49E-02
ZN-65	1115.52	50.75	4.75E-01	4.75E-01	-2.79E-02	2.21E-01
GA-67	93.31	35.70	1.24E+03	1.24E+03	7.87E+02	6.09E+02
	208.95	2.24	2.41E+04		1.69E+04	1.17E+04
	300.22	16.00	3.77E+03		-1.92E+02	1.81E+03
SE-75	121.11	16.70	5.75E-01	1.78E-01	-9.90E-02	2.80E-01
	136.00	59.20	1.78E-01		2.55E-03	8.65E-02
	264.65	59.80	1.92E-01		-1.71E-01	9.21E-02
	279.53	25.20	4.61E-01		8.68E-02	2.21E-01
	400.65	11.40	1.22E+00		4.26E-01	5.82E-01
RB-82	776.52	13.00	2.70E+00	2.70E+00	-1.24E+00	1.23E+00
RB-83	520.41	46.00	3.02E-01	3.02E-01	-7.71E-03	1.41E-01
	529.64	30.30	5.06E-01		-8.81E-02	2.37E-01
	552.65	16.40	1.03E+00		2.82E-01	4.81E-01
KR-85	513.99	0.43	3.38E+01	3.38E+01	4.01E+01	1.61E+01
SR-85	513.99	99.27	2.26E-01	2.26E-01	2.68E-01	1.08E-01
Y-88	898.02	93.40	2.26E-01	1.94E-01	1.12E-01	1.04E-01
	1836.01	99.38	1.94E-01		-2.71E-02	8.21E-02
NB-93M	16.57	9.43	3.88E-01	3.88E-01	7.81E-01	1.88E-01
NB-94	702.63	100.00	1.47E-01	1.43E-01	7.86E-02	6.90E-02
	871.10	100.00	1.43E-01		8.83E-02	6.55E-02
NB-95	765.79	99.81	3.25E-01	3.25E-01	-3.75E-02	1.51E-01
NB-95M	235.69	25.00	1.33E+03	1.33E+03	2.35E+03	6.51E+02
ZR-95	724.18	43.70	5.13E-01	3.44E-01	2.03E-01	2.39E-01
	756.72	55.30	3.44E-01		-1.00E-01	1.58E-01
MO-99	181.06	6.20	3.77E+04	2.80E+04	-4.16E+04	1.83E+04
	739.58	12.80	2.80E+04		1.59E+03	1.30E+04
	778.00	4.50	6.29E+04		-5.54E+04	2.84E+04
RU-103	497.08	89.00	2.47E-01	2.47E-01	-1.14E-01	1.16E-01
RU-106	621.84	9.80	1.40E+00	1.40E+00	4.36E-01	6.54E-01
AG-108M	433.93	89.90	1.31E-01	1.31E-01	4.87E-02	6.21E-02
	614.37	90.40	1.63E-01		1.96E-02	7.70E-02
	722.95	90.50	1.56E-01		6.22E-02	7.27E-02
CD-109	88.03	3.72	2.42E+00	2.42E+00	5.65E-01	1.19E+00
AG-110M	657.75	93.14	1.58E-01	1.58E-01	-9.29E-03	7.37E-02
	677.61	10.53	1.22E+00		1.78E-01	5.63E-01
	706.67	16.46	9.17E-01		-4.62E-01	4.26E-01
	763.93	21.98	7.30E-01		-2.87E-02	3.38E-01
	884.67	71.63	2.21E-01		6.89E-02	1.01E-01
	1384.27	23.94	6.11E-01		-2.99E-01	2.63E-01
CD-113M	263.70	0.02	4.06E+02	4.06E+02	-2.51E+02	1.95E+02
SN-113	255.12	1.93	6.27E+00	2.06E-01	7.58E-01	3.01E+00
	391.69	64.90	2.06E-01		-1.08E-03	9.77E-02
TE123M	159.00	84.10	1.31E-01	1.31E-01	-8.44E-03	6.36E-02
SB-124	602.71	97.87	2.05E-01	2.05E-01	2.08E-02	9.57E-02

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SB-124	645.85		7.26	2.81E+00	2.05E-01	4.29E-01	1.31E+00
		722.78		11.10	1.88E+00		-4.70E-01	8.70E-01
		1691.02		49.00	3.89E-01		2.59E-02	1.59E-01
	I-125	35.49		6.49	1.06E+00	1.06E+00	5.29E-01	5.16E-01
	SB-125	176.33		6.89	1.31E+00	3.82E-01	-2.46E-01	6.35E-01
		427.89		29.33	3.82E-01		-1.77E-01	1.81E-01
		463.38		10.35	1.19E+00		6.21E-01	5.63E-01
		600.56		17.80	7.05E-01		0.00E+00	3.29E-01
		635.90		11.32	1.10E+00		-2.68E-01	5.09E-01
	SB-126	414.70		83.30	1.32E+00	1.15E+00	3.87E-04	6.26E-01
		666.33		99.60	1.15E+00		-1.39E-01	5.30E-01
		695.00		99.60	1.32E+00		-5.17E-01	6.15E-01
		720.50		53.80	2.19E+00		-2.73E+00	1.01E+00
+	SN-126	87.57	*	37.00	3.43E-01	3.43E-01	3.25E-01	1.69E-01
	SB-127	473.00		25.00	5.89E+02	4.68E+02	-9.25E+00	2.76E+02
		685.20		35.70	4.68E+02		-4.53E+01	2.15E+02
		783.80		14.70	1.22E+03		1.44E+02	5.57E+02
	I-129	29.78		57.00	7.21E-02	7.21E-02	-4.90E-03	3.51E-02
		33.60		13.20	3.12E-01		-1.42E-01	1.52E-01
		39.58		7.52	5.87E-01		-5.52E-01	2.86E-01
	I-131	284.30		6.05	4.52E+01	4.05E+00	-2.80E+01	2.15E+01
		364.48		81.20	4.05E+00		6.64E-01	1.93E+00
		636.97		7.26	5.34E+01		-1.87E+01	2.48E+01
		722.89		1.80	2.36E+02		-5.89E+01	1.09E+02
	TE-132	49.72		13.10	2.25E+03	5.84E+02	9.19E+02	1.10E+03
		228.16		88.00	5.84E+02		-1.44E+02	2.82E+02
	BA-133	81.00		33.00	2.64E-01	2.63E-01	-3.60E-01	1.30E-01
		302.84		17.80	6.06E-01		-1.62E-02	2.91E-01
		356.01		60.00	2.63E-01		1.32E-02	1.27E-01
	I-133	529.87		86.30	1.29E+13	1.29E+13	-2.25E+12	6.05E+12
	CS-134	563.23		8.38	1.51E+00	1.75E-01	-4.92E-02	7.06E-01
		569.32		15.43	9.29E-01		5.26E-01	4.38E-01
		604.70		97.60	1.77E-01		4.50E-03	8.43E-02
		795.84		85.40	1.75E-01		3.99E-02	8.11E-02
		801.93		8.73	1.60E+00		3.90E-02	7.35E-01
	CS-135	268.24		16.00	6.14E-01	6.14E-01	1.80E-01	2.95E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	9.63E+00	1.11E+00	-4.32E-01	4.68E+00
		163.89		4.61	1.59E+01		2.96E-01	7.74E+00
		176.55		13.56	5.42E+00		-1.02E+00	2.63E+00
		273.65		12.66	6.73E+00		2.95E+00	3.24E+00
		340.57		48.50	2.05E+00		4.75E-02	9.86E-01
		818.50		99.70	1.11E+00		-7.53E-02	5.11E-01
		1048.07		79.60	1.71E+00		3.17E-01	7.82E-01
		1235.34		19.70	9.06E+00		2.23E+00	4.18E+00
	CS-137	661.65		85.12	1.53E-01	1.53E-01	6.89E-02	7.10E-02
	LA-138	788.74		34.00	3.93E-01	2.52E-01	-2.01E-02	1.81E-01
		1435.80		66.00	2.52E-01		9.67E-02	1.12E-01
	CE-139	165.85		80.35	1.33E-01	1.33E-01	-2.73E-02	6.45E-02
	BA-140	162.64		6.70	1.16E+01	3.78E+00	-4.59E-01	5.65E+00
		304.84		4.50	2.00E+01		-5.65E+00	9.59E+00

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-140	423.70		3.20	3.15E+01	3.78E+00	1.21E+01	1.50E+01
		437.55		2.00	5.27E+01		2.20E+01	2.50E+01
		537.32		25.00	3.78E+00		9.40E-01	1.76E+00
	LA-140	328.77		20.50	4.79E+00	1.06E+00	6.01E-01	2.29E+00
		487.03		45.50	2.21E+00		2.86E-01	1.04E+00
		815.85		23.50	4.72E+00		-1.71E-01	2.15E+00
		1596.49		95.49	1.06E+00		-2.53E-01	4.35E-01
	CE-141	145.44		48.40	4.22E-01	4.22E-01	1.05E-01	2.06E-01
	CE-143	57.36		11.80	3.53E+08	2.10E+08	7.71E+07	1.73E+08
		293.26		42.00	2.10E+08		3.37E+08	1.02E+08
		664.55		5.20	1.65E+09		1.20E+09	7.67E+08
	CE-144	133.54		10.80	8.43E-01	8.43E-01	3.21E-02	4.11E-01
	PM-144	476.78		42.00	2.75E-01	1.33E-01	9.76E-02	1.29E-01
		618.01		98.60	1.33E-01		4.32E-02	6.17E-02
		696.49		99.49	1.58E-01		1.01E-02	7.37E-02
	PM-145	36.85		21.70	2.02E-01	1.10E-01	9.30E-02	9.83E-02
		37.36		39.70	1.10E-01		4.23E-03	5.35E-02
		42.30		15.10	3.20E-01		-5.39E-02	1.56E-01
		72.40		2.31	3.98E+00		5.94E+00	1.96E+00
	PM-146	453.90		39.94	2.97E-01	2.97E-01	1.33E-01	1.40E-01
		735.90		14.01	1.09E+00		7.28E-01	5.11E-01
		747.13		13.10	9.91E-01		3.15E-01	4.57E-01
	ND-147	91.11		28.90	3.98E+00	3.98E+00	9.04E+00	1.95E+00
		531.02		13.10	1.10E+01		3.90E+00	5.16E+00
	PM-149	285.90		3.10	8.65E+05	8.65E+05	-2.93E+05	4.13E+05
	EU-152	121.78		20.50	3.73E-01	3.73E-01	-1.22E-01	1.82E-01
		244.69		5.40	2.10E+00		1.51E-01	1.02E+00
		344.27		19.13	4.86E-01		1.46E-02	2.30E-01
		778.89		9.20	1.20E+00		-1.06E+00	5.43E-01
		964.01		10.40	1.93E+00		1.39E-01	9.02E-01
		1085.78		7.22	2.32E+00		1.41E-02	1.06E+00
		1112.02		9.60	1.85E+00		-1.39E-01	8.46E-01
		1407.95		14.94	1.12E+00		5.16E-01	5.00E-01
	GD-153	97.43		31.30	2.68E-01	2.68E-01	5.27E-02	1.31E-01
		103.18		22.20	3.65E-01		-6.09E-02	1.78E-01
	EU-154	123.07		40.50	1.90E-01	1.90E-01	-9.04E-02	9.26E-02
		723.30		19.70	7.24E-01		2.88E-01	3.37E-01
		873.19		11.50	1.09E+00		-1.60E-01	4.95E-01
		996.32		10.30	1.50E+00		6.27E-01	6.85E-01
		1004.76		17.90	8.38E-01		-4.13E-01	3.81E-01
		1274.45		35.50	4.07E-01		-9.00E-02	1.79E-01
+	EU-155	86.50	*	30.90	4.17E-01	3.57E-01	3.95E-01	2.06E-01
		105.30		20.70	3.57E-01		-1.50E-01	1.74E-01
	EU-156	811.77		10.40	7.22E+00	7.22E+00	-2.58E+00	3.28E+00
		1153.47		7.20	1.67E+01		7.36E+00	7.66E+00
		1230.71		8.90	1.53E+01		2.43E+00	7.09E+00
	HO-166M	184.41		72.60	1.37E-01	1.37E-01	7.95E-02	6.67E-02
		280.45		29.60	3.06E-01		-9.83E-03	1.46E-01
		410.94		11.10	1.06E+00		3.66E-01	5.02E-01
		711.69		54.10	2.45E-01		-2.26E-02	1.14E-01
	TM-171	66.72		0.14	5.52E+01	5.52E+01	-8.66E+00	2.71E+01
	HF-172	81.75		4.52	1.85E+00	7.33E-01	-6.75E+00	9.07E-01
		125.81		11.30	7.33E-01		2.95E-01	3.57E-01

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LU-172	181.53		20.60	2.97E+01	1.84E+01	1.03E+00	1.44E+01
		810.06		16.63	5.01E+01		1.23E+01	2.29E+01
		912.12		15.25	9.22E+01		1.20E+02	4.35E+01
		1093.66		62.50	1.84E+01		2.01E+00	8.44E+00
	LU-173	100.72		5.24	1.43E+00	5.13E-01	-4.06E-02	6.96E-01
		272.11		21.20	5.13E-01		3.21E-01	2.47E-01
	HF-175	343.40		84.00	1.70E-01	1.70E-01	4.93E-03	8.08E-02
	LU-176	88.34		13.30	6.66E-01	1.06E-01	1.22E+00	3.27E-01
		201.83		86.00	1.13E-01		-3.91E-02	5.46E-02
		306.78		94.00	1.06E-01		-4.63E-02	5.06E-02
	TA-182	67.75		41.20	2.29E-01	2.29E-01	-4.52E-01	1.12E-01
		1121.30		34.90	8.48E-01		5.67E-01	3.97E-01
		1189.05		16.23	1.33E+00		-8.64E-01	6.05E-01
		1221.41		26.98	8.22E-01		-5.02E-01	3.73E-01
		1231.02		11.44	2.42E+00		3.84E-01	1.12E+00
	IR-192	308.46		29.68	4.82E-01	3.19E-01	-1.28E-01	2.31E-01
		468.07		48.10	3.19E-01		-4.36E-03	1.50E-01
	HG-203	279.19		77.30	2.17E-01	2.17E-01	4.08E-02	1.04E-01
+	BI-207	569.67	*	97.72	1.44E-01	1.44E-01	1.24E-01	6.83E-02
		1063.62		74.90	2.07E-01		-1.26E-02	9.41E-02
+	TL-208	583.14	*	30.22	6.84E-01	6.84E-01	9.32E-01	3.29E-01
		860.37		4.48	3.44E+00		1.20E+00	1.59E+00
		2614.66		35.85	8.56E-01		0.00E+00	3.86E-01
	BI-210M	262.00		45.00	2.01E-01	2.01E-01	-8.78E-02	9.63E-02
		300.00		23.00	5.54E-01		2.34E-02	2.68E-01
	PB-210	46.50		4.25	1.23E+00	1.23E+00	4.13E-01	6.00E-01
	PB-211	404.84		2.90	3.81E+00	3.81E+00	9.50E-01	1.81E+00
		831.96		2.90	5.33E+00		1.65E+00	2.47E+00
	BI-212	727.17		11.80	1.21E+00	1.21E+00	9.14E-02	5.65E-01
		1620.62		2.75	4.66E+00		3.52E-01	1.95E+00
+	PB-212	238.63	*	44.60	3.89E-01	3.89E-01	1.28E+00	1.90E-01
		300.09		3.41	3.74E+00		1.58E-01	1.81E+00
+	BI-214	609.31	*	46.30	3.78E-01	1.41E-01	1.14E+00	1.80E-01
		1120.29	*	15.10	1.41E+00		2.18E+00	6.58E-01
		1764.49	*	15.80	1.41E-01		1.67E+00	0.00E+00
		2204.22		4.98	4.32E+00		-1.97E-01	1.89E+00
+	PB-214	295.21	*	19.19	8.01E-01	3.90E-01	1.48E+00	3.90E-01
		351.92	*	37.19	3.90E-01		1.46E+00	1.89E-01
	RN-219	401.80		6.50	1.69E+00	1.69E+00	9.15E-01	8.04E-01
	RA-223	323.87		3.88	2.81E+00	2.81E+00	5.20E-01	1.35E+00
	RA-224	240.98		3.95	3.98E+00	3.98E+00	1.38E+01	1.95E+00
	RA-225	40.00		31.00	9.44E-01	9.44E-01	-8.87E-01	4.60E-01
	RA-226	186.21		3.28	3.11E+00	3.11E+00	3.30E+00	1.52E+00
	TH-227	50.10		8.40	6.62E-01	6.62E-01	2.71E-01	3.24E-01
		236.00		11.50	1.26E+00		2.22E+00	6.16E-01
		256.20		6.30	1.54E+00		9.42E-01	7.43E-01
+	AC-228	338.32	*	11.40	1.29E+00	1.03E+00	1.17E+00	6.23E-01
		911.07	*	27.70	1.03E+00		7.81E-01	4.91E-01
		969.11	*	16.60	1.04E+00		8.92E-01	4.83E-01
	TH-230	48.44		16.90	3.21E-01	3.21E-01	1.45E-01	1.57E-01
		62.85		4.60	1.55E+00		1.63E+00	7.59E-01
		67.67		0.37	2.00E+01		-3.94E+01	9.78E+00
	PA-231	283.67		1.60	5.39E+00	4.65E+00	-2.23E+00	2.57E+00

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PA-231	302.67		2.30	4.65E+00	4.65E+00	-1.24E-01	2.23E+00
+	TH-231	25.64	*	14.70	3.05E-01	3.05E-01	1.82E-01	1.49E-01
		84.21		6.40	1.22E+00		-4.21E+00	5.98E-01
	PA-233	311.98		38.60	7.30E-01	7.30E-01	2.10E-03	3.49E-01
	PA-234	131.20		20.40	3.95E-01	3.95E-01	-1.29E-01	1.93E-01
		733.99		8.80	1.61E+00		-2.23E-01	7.46E-01
		946.00		12.00	1.29E+00		-3.22E-01	5.91E-01
	PA-234M	1001.03		0.92	1.61E+01	1.61E+01	-5.08E-01	7.33E+00
	TH-234	63.29		3.80	1.90E+00	1.90E+00	1.96E+00	9.34E-01
	U-235	143.76		10.50	8.29E-01	8.29E-01	2.81E-01	4.04E-01
		163.35		4.70	1.86E+00		3.47E-02	9.06E-01
		205.31		4.70	2.17E+00		7.21E-01	1.05E+00
+	NP-237	86.50	*	12.60	1.01E+00	1.01E+00	9.53E-01	4.97E-01
	NP-239	106.10		22.70	4.58E+04	4.58E+04	-1.92E+04	2.23E+04
		228.18		10.70	1.30E+05		1.55E+04	6.29E+04
		277.60		14.10	9.53E+04		1.84E+04	4.57E+04
	AM-241	59.54		35.90	1.85E-01	1.85E-01	7.87E-03	9.06E-02
	AM-243	74.67		66.00	1.49E-01	1.49E-01	5.86E-01	7.32E-02
	CM-243	209.75		3.29	3.04E+00	6.77E-01	1.22E+00	1.47E+00
		228.14		10.60	9.17E-01		-2.25E-01	4.43E-01
		277.60		14.00	6.77E-01		1.31E-01	3.24E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-18

FEEBRIS1D-14.082-084

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-14.082-084

Elapsed Live time: 3600
Elapsed Real Time: 3602

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	15	103
17:	81	71	57	54	54	55	59	58
25:	69	57	49	41	42	46	52	47
33:	53	48	44	57	49	61	60	52
41:	40	57	45	58	66	94	87	67
49:	61	54	67	67	76	74	75	75
57:	78	69	68	88	116	112	115	92
65:	118	96	92	91	72	111	90	112
73:	131	193	226	246	202	105	76	76
81:	70	68	71	88	96	124	112	86
89:	98	91	108	151	116	70	60	50
97:	61	56	57	76	53	56	64	40
105:	57	58	56	61	67	61	50	72
113:	56	54	55	52	53	47	51	54
121:	48	56	50	53	49	50	58	60
129:	58	51	47	44	48	51	62	64
137:	52	45	60	44	60	43	57	57
145:	68	48	39	51	39	46	44	53
153:	42	57	43	49	48	47	44	54
161:	33	34	44	45	49	48	45	38
169:	46	37	50	37	53	33	44	37
177:	47	32	31	37	37	36	42	59
185:	68	67	38	38	44	46	42	38
193:	35	38	50	34	36	37	47	32
201:	47	39	29	54	21	36	35	55
209:	53	36	35	39	31	33	24	28
217:	38	38	29	41	34	31	24	34
225:	32	30	25	42	26	35	29	29
233:	32	32	33	48	112	154	129	62
241:	59	56	33	27	20	28	28	19
249:	21	22	21	25	37	28	15	22
257:	26	20	31	22	17	17	24	13
265:	16	25	29	22	40	25	20	22
273:	32	17	20	20	24	21	21	12
281:	16	21	16	13	17	10	19	15
289:	20	15	17	25	35	67	72	43
297:	34	25	29	31	16	23	21	13
305:	17	26	12	18	21	17	17	21
313:	19	20	20	20	10	24	16	19
321:	18	28	20	25	17	22	19	19
329:	18	23	20	20	13	19	13	28
337:	38	41	23	21	16	8	13	12
345:	8	12	12	13	22	74	116	75
353:	37	22	17	17	11	10	18	12
361:	11	8	19	16	19	17	11	13

369:	13	12	14	9	10	16	11	15

Sample Title: FEEBRIS1D-14.082-084

Channel								
377:	13	6	9	15	13	13	19	11
385:	18	13	12	12	13	15	9	14
393:	13	11	17	8	15	13	16	18
401:	11	17	17	9	6	12	12	19
409:	16	25	17	17	5	10	17	9
417:	16	10	7	13	16	20	12	15
425:	13	12	9	7	10	13	14	14
433:	11	13	19	11	15	16	12	10
441:	13	10	8	8	10	13	9	4
449:	13	14	12	19	9	12	9	9
457:	11	8	13	9	11	21	17	11
465:	12	5	10	8	11	8	6	10
473:	7	7	12	8	11	6	8	12
481:	6	6	7	2	13	15	13	15
489:	6	10	10	12	6	12	11	4
497:	11	6	13	5	8	13	11	8
505:	7	11	13	13	21	25	23	18
513:	16	7	7	9	7	6	3	6
521:	7	9	9	3	9	8	7	11
529:	12	5	3	10	5	12	13	4
537:	1	9	7	3	8	7	7	3
545:	8	5	6	12	6	10	13	9
553:	6	9	7	6	5	8	11	3
561:	8	9	7	9	5	11	12	7
569:	11	19	12	12	7	2	7	12
577:	6	7	13	10	18	42	38	20
585:	12	8	8	5	8	5	3	5
593:	7	9	5	8	4	10	5	13
601:	5	4	9	8	4	12	17	54
609:	73	39	11	9	3	2	8	4
617:	10	8	6	10	5	8	7	6
625:	7	8	6	7	6	4	7	2
633:	6	6	8	4	9	6	9	6
641:	10	11	8	8	6	3	6	3
649:	8	8	2	5	9	9	11	7
657:	1	4	10	6	7	5	9	10
665:	9	4	4	5	1	4	2	11
673:	3	3	8	3	8	4	4	6
681:	6	3	3	4	6	3	4	8
689:	9	4	3	12	10	7	6	7
697:	6	3	9	10	11	9	7	9
705:	7	6	2	8	4	6	6	3
713:	14	8	4	5	10	2	5	5
721:	9	3	3	4	4	17	11	8
729:	3	2	10	8	7	7	7	6
737:	5	7	11	4	6	4	6	6
745:	4	5	5	5	6	6	3	5
753:	1	4	2	4	2	8	8	7
761:	6	9	4	7	8	3	6	6
769:	9	2	9	8	4	2	4	4
777:	4	2	4	3	3	4	7	2
785:	7	7	3	4	3	7	7	5
793:	6	8	3	8	5	7	3	5

801:	4	6	1	4	6	8	7	3

Sample Title: FEEBRIS1D-14.082-084

Channel								
809:	3	1	3	5	4	5	2	2
817:	6	4	5	2	5	10	7	4
825:	6	5	3	4	7	6	6	4
833:	3	5	10	10	2	5	8	6
841:	6	5	5	4	4	3	2	4
849:	8	7	5	5	5	6	3	6
857:	5	6	7	9	5	6	4	3
865:	3	3	6	9	3	3	2	7
873:	1	7	4	3	1	2	2	3
881:	6	3	7	2	6	6	3	4
889:	5	2	7	4	1	10	15	4
897:	3	2	4	3	8	3	5	2
905:	4	5	4	0	14	22	19	19
913:	4	2	9	5	3	2	4	3
921:	5	7	5	2	1	2	6	2
929:	6	4	1	5	6	2	4	7
937:	2	4	4	6	7	10	2	3
945:	2	6	5	4	5	5	4	7
953:	3	3	1	5	3	4	6	3
961:	8	5	7	10	10	4	12	11
969:	17	7	2	5	3	1	6	2
977:	4	2	3	4	4	6	3	10
985:	3	4	3	4	4	2	3	6
993:	2	1	4	3	5	3	6	7
1001:	1	1	5	3	3	9	4	1
1009:	5	9	4	0	4	3	3	0
1017:	8	8	2	5	7	2	6	3
1025:	1	3	4	9	1	5	2	4
1033:	4	4	3	2	5	3	6	3
1041:	4	5	4	4	2	4	7	8
1049:	4	2	3	4	3	3	3	3
1057:	3	2	4	6	3	2	6	3
1065:	4	2	3	4	7	3	3	7
1073:	5	2	6	3	3	2	6	2
1081:	6	0	2	2	8	3	4	2
1089:	13	3	5	4	1	6	4	2
1097:	4	3	6	0	4	4	4	2
1105:	4	4	3	4	4	5	5	3
1113:	4	6	6	3	5	5	24	16
1121:	10	2	6	2	1	5	4	5
1129:	5	8	4	2	8	4	3	1
1137:	6	2	5	4	5	5	2	4
1145:	3	2	1	1	6	4	3	4
1153:	5	3	5	9	5	4	7	4
1161:	2	3	5	3	1	3	7	5
1169:	7	7	4	5	3	6	8	5
1177:	2	7	5	1	2	7	5	6
1185:	2	5	3	3	5	2	4	4
1193:	4	6	8	2	3	2	2	1
1201:	0	4	4	3	7	4	3	2
1209:	4	6	2	5	5	4	6	5
1217:	2	5	3	2	4	3	6	3
1225:	4	7	6	5	6	8	4	4

1233:	6	2	10	3	6	7	7	5

Sample Title: FEEBRIS1D-14.082-084

Channel								
1241:	1	2	7	2	4	2	4	5
1249:	7	5	1	5	2	4	6	2
1257:	5	2	2	4	8	1	3	0
1265:	2	4	3	1	5	2	0	2
1273:	2	2	3	4	1	3	2	2
1281:	3	1	2	2	1	4	4	2
1289:	3	1	0	0	2	2	2	6
1297:	3	0	2	1	0	5	1	4
1305:	5	1	1	0	3	3	4	1
1313:	4	3	4	2	2	1	1	4
1321:	1	3	1	2	6	2	0	1
1329:	1	4	4	2	1	4	1	0
1337:	2	3	3	2	4	5	3	3
1345:	0	0	2	4	2	1	4	2
1353:	1	1	2	2	0	1	2	3
1361:	1	0	0	1	2	3	1	0
1369:	1	2	2	1	4	3	2	4
1377:	3	5	0	1	2	1	0	1
1385:	3	1	1	3	1	4	2	3
1393:	1	2	2	1	3	2	2	1
1401:	1	1	1	2	3	1	3	3
1409:	6	2	1	1	2	0	2	2
1417:	0	3	2	2	0	4	3	2
1425:	0	2	2	2	0	2	3	1
1433:	3	3	1	3	3	2	3	2
1441:	1	2	0	1	3	2	3	4
1449:	0	1	1	2	2	1	1	0
1457:	2	14	40	54	77	32	10	1
1465:	1	0	1	4	1	0	2	2
1473:	1	1	2	2	0	3	0	2
1481:	0	1	2	2	1	0	2	0
1489:	1	2	3	0	2	1	1	2
1497:	0	1	1	0	0	0	0	1
1505:	0	0	1	2	2	3	1	3
1513:	0	1	2	3	0	0	1	1
1521:	1	2	1	2	1	0	2	0
1529:	3	0	1	2	1	1	0	1
1537:	1	0	0	0	0	2	5	1
1545:	1	1	0	2	3	1	1	1
1553:	0	0	0	1	0	2	2	1
1561:	1	1	2	1	2	1	1	0
1569:	2	1	0	3	1	1	0	1
1577:	0	1	1	1	2	3	3	2
1585:	1	0	0	3	1	2	2	2
1593:	2	1	0	1	0	1	0	1
1601:	1	0	0	2	1	2	0	2
1609:	2	0	0	0	0	2	0	1
1617:	0	1	0	1	2	0	2	1
1625:	2	0	1	1	2	4	1	1
1633:	1	0	2	3	0	0	1	1
1641:	1	2	3	0	1	1	1	0
1649:	0	0	0	2	2	2	0	0
1657:	1	1	2	4	1	0	0	0

1665:	0	0	1	0	1	0	0	1

Sample Title: FEEBRIS1D-14.082-084

Channel								
1673:	0	1	0	1	0	0	0	1
1681:	2	0	1	0	2	0	2	0
1689:	1	2	0	1	1	0	0	1
1697:	1	0	0	0	1	1	0	0
1705:	1	1	1	1	0	0	1	1
1713:	0	1	2	1	1	0	1	1
1721:	1	1	1	0	2	0	0	3
1729:	4	2	0	1	0	1	0	1
1737:	0	0	0	0	2	0	0	0
1745:	0	1	1	0	0	2	2	0
1753:	3	0	0	0	0	0	0	0
1761:	2	7	1	11	8	2	1	0
1769:	0	1	2	1	0	1	0	1
1777:	0	0	2	0	0	0	0	1
1785:	0	1	0	0	1	2	1	1
1793:	1	1	1	1	1	0	1	0
1801:	5	1	0	1	0	1	1	3
1809:	1	0	1	0	1	0	0	1
1817:	0	0	0	1	0	0	0	1
1825:	1	1	0	1	1	1	0	0
1833:	0	1	0	2	3	1	0	1
1841:	2	0	3	1	0	0	3	0
1849:	0	0	0	1	0	0	1	0
1857:	1	0	0	2	0	1	1	1
1865:	1	0	0	0	0	1	1	1
1873:	0	1	0	1	1	1	2	0
1881:	1	1	0	1	1	1	2	1
1889:	0	2	1	1	0	0	3	0
1897:	0	0	0	1	1	0	0	1
1905:	1	1	0	0	1	1	0	0
1913:	1	1	2	1	0	1	0	2
1921:	2	1	0	0	0	1	2	1
1929:	0	0	1	0	0	1	1	2
1937:	1	1	0	0	0	0	1	2
1945:	1	1	0	0	1	0	0	0
1953:	1	3	0	0	1	3	1	0
1961:	1	0	1	2	1	1	1	1
1969:	1	1	1	1	1	0	1	0
1977:	1	0	0	1	0	2	1	2
1985:	2	1	1	0	0	0	1	1
1993:	1	0	0	0	1	0	0	1
2001:	0	1	0	2	0	0	0	0
2009:	2	0	0	2	1	1	1	1
2017:	0	1	0	0	1	0	0	0
2025:	4	0	0	0	1	1	0	0
2033:	1	1	2	0	0	0	0	0
2041:	2	4	0	1	1	1	1	1
2049:	0	0	1	1	0	0	0	0
2057:	1	0	2	0	0	0	2	0
2065:	1	0	2	0	1	0	1	1
2073:	1	0	1	0	0	1	0	1
2081:	2	0	2	0	0	2	0	0
2089:	0	1	1	0	1	1	1	0

2097:	1	0	0	1	0	1	1	0

Sample Title: FEEBRIS1D-14.082-084

Channel								
2105:	2	1	1	0	1	1	1	0
2113:	1	0	0	0	0	2	1	1
2121:	0	0	0	0	0	0	0	1
2129:	1	1	0	1	0	0	0	0
2137:	0	0	1	0	0	1	0	0
2145:	1	0	0	3	0	0	0	0
2153:	0	0	1	1	0	2	0	0
2161:	0	0	0	2	0	0	1	1
2169:	0	1	1	0	0	0	1	1
2177:	0	2	0	0	0	0	0	0
2185:	1	1	1	0	1	1	0	0
2193:	0	1	0	1	1	2	1	0
2201:	0	1	5	3	3	1	3	0
2209:	0	1	1	0	1	0	1	0
2217:	1	0	0	0	0	0	0	0
2225:	0	2	1	0	0	0	0	0
2233:	0	2	0	1	3	1	1	0
2241:	1	1	0	1	0	1	0	0
2249:	1	1	0	0	2	0	0	0
2257:	0	3	1	0	0	0	0	2
2265:	0	2	0	1	0	1	1	4
2273:	2	0	0	1	0	0	1	1
2281:	1	0	1	1	0	1	0	1
2289:	0	0	0	0	2	1	2	0
2297:	0	0	0	0	0	0	0	1
2305:	0	0	0	0	0	0	1	1
2313:	1	2	0	0	0	0	0	2
2321:	1	0	1	0	0	0	0	1
2329:	0	0	1	1	1	1	0	0
2337:	2	0	1	1	0	0	1	0
2345:	0	0	0	1	1	0	0	0
2353:	0	0	0	2	0	3	0	1
2361:	0	0	0	0	1	1	1	0
2369:	1	0	2	0	1	0	0	2
2377:	1	3	0	0	0	1	0	0
2385:	2	1	0	2	0	0	0	0
2393:	0	1	1	1	0	1	1	0
2401:	2	1	0	1	2	0	0	1
2409:	0	0	0	0	0	0	0	0
2417:	1	0	0	0	1	1	2	0
2425:	0	0	1	1	0	1	0	0
2433:	0	0	0	1	0	1	0	0
2441:	1	1	0	0	0	1	1	3
2449:	0	0	1	0	0	0	0	0
2457:	0	1	0	0	1	0	0	0
2465:	0	0	0	1	0	0	0	0
2473:	0	0	0	0	0	1	0	0
2481:	0	1	1	0	2	1	1	0
2489:	0	1	0	0	0	0	0	0
2497:	0	1	1	0	1	0	1	0
2505:	1	0	0	0	0	0	0	0
2513:	1	0	0	0	1	0	0	0
2521:	1	1	0	0	0	0	0	1

2529:	0	1	1	0	0	0	1	0

Sample Title: FEEBRIS1D-14.082-084

Channel								
2537:	0	0	0	0	0	1	1	0
2545:	0	0	0	0	0	0	0	0
2553:	0	1	0	0	0	1	0	0
2561:	1	0	0	0	0	0	1	0
2569:	0	1	0	0	0	0	1	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	0	0	1	0	0	0
2593:	0	0	0	1	0	0	1	0
2601:	0	1	0	0	0	1	0	0
2609:	0	0	2	1	7	5	8	2
2617:	4	0	0	0	0	0	0	0
2625:	0	0	0	0	0	0	0	0
2633:	0	0	0	1	0	3	2	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	0	1	0	0	0	0	1
2665:	0	0	0	1	0	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	0	0	0	0	0	0	0	0
2689:	1	0	1	0	0	1	0	1
2697:	0	0	0	0	0	0	0	1
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	1	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	3	0	0	0	0	0	0	0
2745:	1	0	0	0	0	0	0	1
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	1	0	0	0	1
2769:	0	0	0	0	0	0	0	0
2777:	0	0	1	0	0	1	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	1	0
2801:	0	1	0	0	0	0	1	0
2809:	1	0	0	1	1	1	1	0
2817:	1	0	0	1	0	1	0	0
2825:	0	0	0	0	0	0	0	1
2833:	0	0	0	0	0	0	0	1
2841:	0	1	0	1	1	0	0	0
2849:	0	1	0	0	0	0	0	0
2857:	0	0	0	1	0	0	0	0
2865:	0	0	0	1	1	0	0	0
2873:	0	1	0	0	0	1	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	1	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	1	0	0	0
2913:	0	0	0	0	0	1	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	1	0	0	0	0	0
2945:	0	0	0	0	0	2	2	0
2953:	0	0	0	0	0	1	0	0

2961:	0	0	0	1	0	0	0	0

Sample Title: FEEBRIS1D-14.082-084

Channel								
2969:	0	0	0	0	0	1	0	0
2977:	0	0	1	1	0	0	0	0
2985:	0	0	0	0	1	0	1	0
2993:	1	1	0	0	1	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	1	0	0	1	0	0	0	0
3033:	2	0	0	0	0	0	0	0
3041:	1	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	1	0	0	2	0	0	1	0
3073:	0	1	0	0	1	0	0	0
3081:	0	0	0	1	0	0	0	0
3089:	1	0	0	0	0	0	0	0
3097:	0	0	2	0	0	0	0	0
3105:	0	0	1	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	1	1	1
3137:	0	1	1	0	0	0	1	0
3145:	1	0	0	1	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	1	0	0	0	0	0	0	0
3169:	0	0	0	0	1	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	1	0
3201:	0	0	0	1	0	0	0	0
3209:	0	0	1	0	0	0	0	0
3217:	1	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	1	0	0	0
3257:	0	0	1	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	1	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	1	1	0	0	0
3305:	0	0	0	0	0	1	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	1	0	1	1	0	0
3345:	0	0	1	0	0	0	0	0
3353:	0	0	0	0	0	0	1	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	1	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-14.082-084

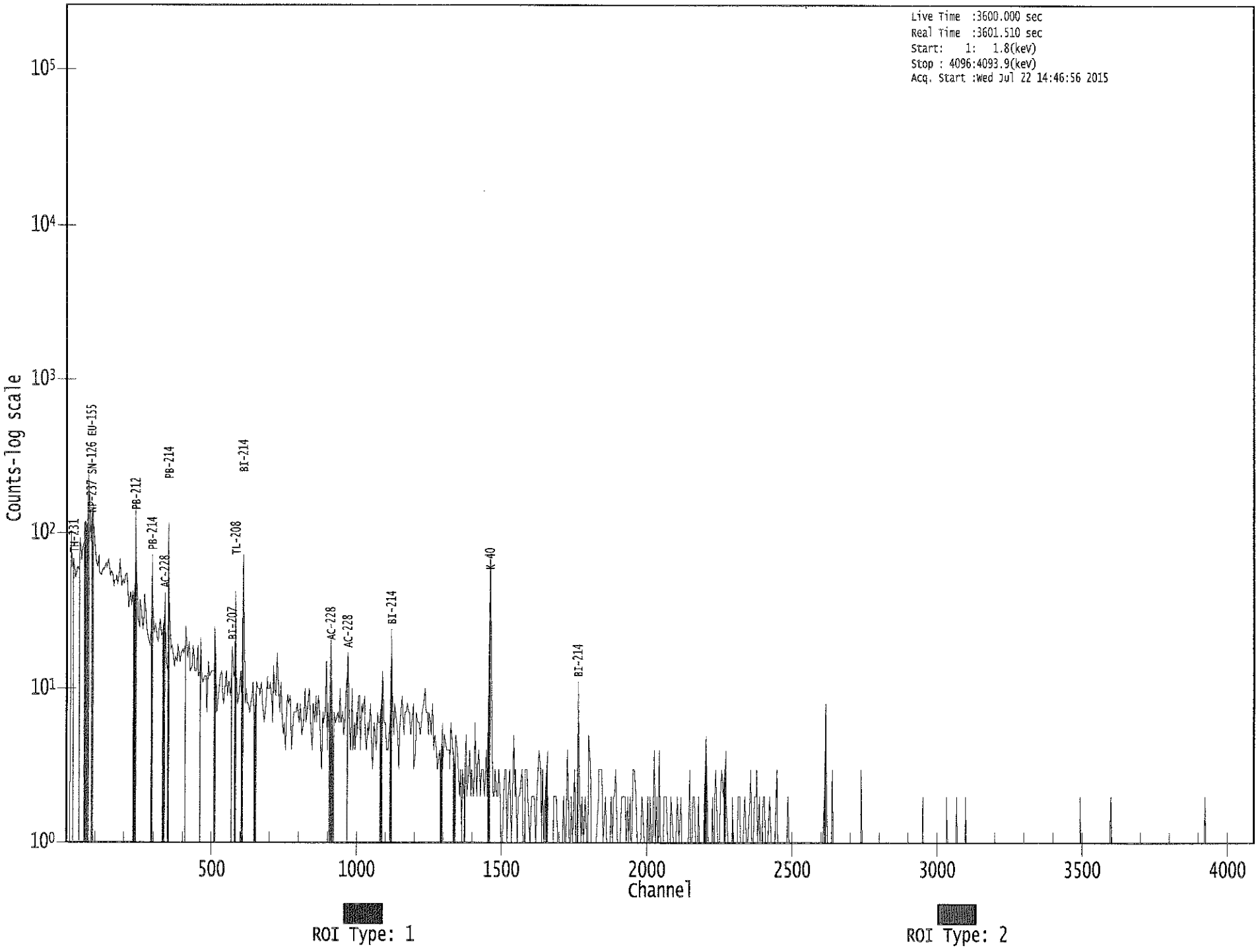
Channel								
3401:	0	0	0	1	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	1	1	0	0	0	0	1
3433:	0	0	0	1	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	1	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	1	0	0	1	0	0	0	1
3489:	0	0	0	0	2	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	1	1
3521:	0	1	0	0	0	0	1	1
3529:	0	1	1	0	1	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	1
3593:	0	0	1	0	0	0	2	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	1	0
3657:	1	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	1	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	1	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	1	0	1	0
3753:	0	0	0	0	0	0	1	0
3761:	0	1	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	0	0	0	0
3785:	0	1	0	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-14.082-084

Channel								
3833:	1	0	0	0	0	1	0	0
3841:	0	0	0	0	0	1	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	1	0
3873:	0	0	0	0	0	0	1	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	1	0	0
3905:	0	1	0	1	0	0	0	0
3913:	0	0	0	0	0	0	0	1
3921:	0	0	0	2	0	0	0	0
3929:	0	0	0	0	0	0	1	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	1	0	0	0	1	0
3969:	0	1	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	1	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	1	0	1	0	0	0	0
4009:	0	0	0	0	0	0	0	1
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	1	0
4033:	0	0	1	0	1	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	1	0	0	0	1
4065:	1	0	0	0	0	0	0	1
4073:	0	1	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	1	0	0	0	0

0000025028.CNF



Apex-Gamma

Analysis Report for 1506114-19
FEEBRIS1D-14.054-056

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-19
Sample Description	: FEEBRIS1D-14.054-056
Sample Type	: SOIL
Sample Size	: 1.334E+02 grams
Facility	: Countroom
Sample Taken On	: 6/12/2015 7:45:05AM
Acquisition Started	: 7/22/2015 1:44:27PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25023

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

: 91045

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 2:44:31PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	13.86	13.99	0.0000	0.00
2	77.04	77.13	0.0000	0.00
3	144.31	144.36	0.0000	0.00
4	185.69	185.72	0.0000	0.00
5	238.88	238.87	0.0000	0.00
6	294.98	294.95	0.0000	0.00
7	311.34	311.30	0.0000	0.00
8	329.05	329.00	0.0000	0.00
9	338.68	338.62	0.0000	0.00
10	351.98	351.91	0.0000	0.00
11	583.18	583.00	0.0000	0.00
12	647.67	647.46	0.0000	0.00
13	663.29	663.07	0.0000	0.00
14	703.75	703.52	0.0000	0.00
15	727.88	727.64	0.0000	0.00
16	750.57	750.31	0.0000	0.00
17	804.10	803.82	0.0000	0.00
18	869.93	869.62	0.0000	0.00
19	983.69	983.34	0.0000	0.00
20	1047.56	1047.18	0.0000	0.00
21	1120.30	1119.89	0.0000	0.00
22	1182.46	1182.03	0.0000	0.00
23	1238.57	1238.13	0.0000	0.00
24	1460.28	1459.76	0.0000	0.00
25	1474.67	1474.14	0.0000	0.00
26	1764.97	1764.36	0.0000	0.00
27	2086.53	2085.86	0.0000	0.00
28	2615.53	2614.79	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 2:44:31PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	13.86	13 -	17	13.99	1.98E+03	134.38	1.66E+03	1.14
	2	77.04	74 -	80	77.13	7.19E+01	44.39	2.90E+02	1.64
	3	144.31	139 -	150	144.36	6.93E+01	49.80	2.73E+02	4.26
	4	185.69	182 -	189	185.72	8.86E+01	36.93	1.69E+02	1.41
M	5	238.88	236 -	246	238.87	5.25E+01	23.66	6.95E+01	1.41
	6	294.98	291 -	298	294.95	4.09E+01	28.84	1.10E+02	2.16
	7	311.34	308 -	316	311.30	3.07E+01	26.01	8.46E+01	4.40
M	8	329.05	325 -	343	329.00	1.91E+01	15.87	3.29E+01	1.40
m	9	338.68	325 -	343	338.62	2.22E+01	20.52	5.26E+01	2.07
	10	351.98	348 -	355	351.91	5.25E+01	31.56	1.29E+02	1.37
	11	583.18	579 -	587	583.00	3.05E+01	20.36	4.50E+01	2.29
	12	647.67	644 -	651	647.46	1.64E+01	15.23	2.72E+01	3.69
	13	663.29	658 -	668	663.07	2.20E+01	26.19	7.19E+01	4.95
	14	703.75	700 -	709	703.52	2.60E+01	17.72	3.00E+01	5.41
	15	727.88	725 -	730	727.64	1.00E+01	12.65	2.40E+01	1.58
	16	750.57	747 -	753	750.31	1.77E+01	11.35	1.07E+01	4.46
	17	804.10	800 -	808	803.82	2.27E+01	13.29	1.27E+01	5.85
	18	869.93	866 -	873	869.62	1.65E+01	10.58	6.90E+00	4.70
	19	983.69	979 -	988	983.34	1.21E+01	12.45	1.58E+01	3.69
	20	1047.56	1041 -	1051	1047.18	1.27E+01	13.22	1.66E+01	5.33
	21	1120.30	1116 -	1125	1119.89	1.80E+01	10.44	5.90E+00	3.62
	22	1182.46	1177 -	1185	1182.03	9.57E+00	9.82	8.86E+00	3.49
	23	1238.57	1235 -	1240	1238.13	8.00E+00	5.66	0.00E+00	1.45
	24	1460.28	1454 -	1464	1459.76	1.93E+01	10.87	5.50E+00	1.95
	25	1474.67	1470 -	1477	1474.14	7.00E+00	5.29	0.00E+00	1.98
	26	1764.97	1761 -	1767	1764.36	1.10E+01	6.63	0.00E+00	2.51
	27	2086.53	2083 -	2088	2085.86	7.00E+00	5.29	0.00E+00	1.98
	28	2615.53	2609 -	2619	2614.79	1.40E+01	7.48	0.00E+00	3.98

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 2:44:31PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	13.86	13 -	17	1.98E+03	134.38	1.66E+03	8.27E+01
	2	77.04	74 -	80	7.19E+01	44.39	2.90E+02	3.37E+01
	3	144.31	139 -	150	6.93E+01	49.80	2.73E+02	3.86E+01
	4	185.69	182 -	189	8.86E+01	36.93	1.69E+02	2.61E+01
M	5	238.88	236 -	246	5.25E+01	23.66	6.95E+01	1.37E+01
	6	294.98	291 -	298	4.09E+01	28.84	1.10E+02	2.12E+01
	7	311.34	308 -	316	3.07E+01	26.01	8.46E+01	1.93E+01
M	8	329.05	325 -	343	1.91E+01	15.87	3.29E+01	9.43E+00
m	9	338.68	325 -	343	2.22E+01	20.52	5.26E+01	1.19E+01
	10	351.98	348 -	355	5.25E+01	31.56	1.29E+02	2.30E+01
	11	583.18	579 -	587	3.05E+01	20.36	4.50E+01	1.41E+01
	12	647.67	644 -	651	1.64E+01	15.23	2.72E+01	1.06E+01
	13	663.29	658 -	668	2.20E+01	26.19	7.19E+01	2.01E+01
	14	703.75	700 -	709	2.60E+01	17.72	3.00E+01	1.19E+01
	15	727.88	725 -	730	1.00E+01	12.65	2.40E+01	9.00E+00
	16	750.57	747 -	753	1.77E+01	11.35	1.07E+01	6.27E+00
	17	804.10	800 -	808	2.27E+01	13.29	1.27E+01	7.63E+00
	18	869.93	866 -	873	1.65E+01	10.58	6.90E+00	5.56E+00
	19	983.69	979 -	988	1.21E+01	12.45	1.58E+01	8.48E+00
	20	1047.56	1041 -	1051	1.27E+01	13.22	1.66E+01	9.15E+00
	21	1120.30	1116 -	1125	1.80E+01	10.44	5.90E+00	4.99E+00
	22	1182.46	1177 -	1185	9.57E+00	9.82	8.86E+00	6.27E+00
	23	1238.57	1235 -	1240	8.00E+00	5.66	0.00E+00	0.00E+00
	24	1460.28	1454 -	1464	1.93E+01	10.87	5.50E+00	5.28E+00
	25	1474.67	1470 -	1477	7.00E+00	5.29	0.00E+00	0.00E+00
	26	1764.97	1761 -	1767	1.10E+01	6.63	0.00E+00	0.00E+00
	27	2086.53	2083 -	2088	7.00E+00	5.29	0.00E+00	0.00E+00
	28	2615.53	2609 -	2619	1.40E+01	7.48	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 2:44:31PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	13.86	13 -	17	13.99	1.98E+03	134.38	1.66E+03	.....
	2	77.04	74 -	80	77.13	7.19E+01	44.39	2.90E+02	.....
	3	144.31	139 -	150	144.36	6.93E+01	49.80	2.73E+02	U-235
	4	185.69	182 -	189	185.72	8.86E+01	36.93	1.69E+02	RA-226
M	5	238.88	236 -	246	238.87	5.25E+01	23.66	6.95E+01	PB-212
	6	294.98	291 -	298	294.95	4.09E+01	28.84	1.10E+02	PB-214
	7	311.34	308 -	316	311.30	3.07E+01	26.01	8.46E+01	PA-233
M	8	329.05	325 -	343	329.00	1.91E+01	15.87	3.29E+01	LA-140
m	9	338.68	325 -	343	338.62	2.22E+01	20.52	5.26E+01	AC-228
	10	351.98	348 -	355	351.91	5.25E+01	31.56	1.29E+02	PB-214
	11	583.18	579 -	587	583.00	3.05E+01	20.36	4.50E+01	TL-208
	12	647.67	644 -	651	647.46	1.64E+01	15.23	2.72E+01	.....
	13	663.29	658 -	668	663.07	2.20E+01	26.19	7.19E+01	.....
	14	703.75	700 -	709	703.52	2.60E+01	17.72	3.00E+01	.....
	15	727.88	725 -	730	727.64	1.00E+01	12.65	2.40E+01	BI-212
	16	750.57	747 -	753	750.31	1.77E+01	11.35	1.07E+01	.....
	17	804.10	800 -	808	803.82	2.27E+01	13.29	1.27E+01	.....
	18	869.93	866 -	873	869.62	1.65E+01	10.58	6.90E+00	.....
	19	983.69	979 -	988	983.34	1.21E+01	12.45	1.58E+01	V-48
	20	1047.56	1041 -	1051	1047.18	1.27E+01	13.22	1.66E+01	CS-136
	21	1120.30	1116 -	1125	1119.89	1.80E+01	10.44	5.90E+00	BI-214 SC-46 TA-182
	22	1182.46	1177 -	1185	1182.03	9.57E+00	9.82	8.86E+00	.....
	23	1238.57	1235 -	1240	1238.13	8.00E+00	5.66	0.00E+00	CO-56
	24	1460.28	1454 -	1464	1459.76	1.93E+01	10.87	5.50E+00	K-40
	25	1474.67	1470 -	1477	1474.14	7.00E+00	5.29	0.00E+00	.....
	26	1764.97	1761 -	1767	1764.36	1.10E+01	6.63	0.00E+00	BI-214
	27	2086.53	2083 -	2088	2085.86	7.00E+00	5.29	0.00E+00	.....
	28	2615.53	2609 -	2619	2614.79	1.40E+01	7.48	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 2:44:31PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	13.86	1.98E+03	134.38	9.42E-08	1.68E-03
	2	77.04	7.19E+01	44.39	2.75E-02	3.42E-03
	3	144.31	6.93E+01	49.80	2.46E-02	2.32E-03
	4	185.69	8.86E+01	36.93	2.11E-02	1.65E-03
M	5	238.88	5.25E+01	23.66	1.79E-02	1.60E-03
	6	294.98	4.09E+01	28.84	1.55E-02	1.48E-03
	7	311.34	3.07E+01	26.01	1.49E-02	1.40E-03
M	8	329.05	1.91E+01	15.87	1.44E-02	1.32E-03
m	9	338.68	2.22E+01	20.52	1.41E-02	1.27E-03
	10	351.98	5.25E+01	31.56	1.37E-02	1.21E-03
	11	583.18	3.05E+01	20.36	9.58E-03	8.25E-04
	12	647.67	1.64E+01	15.23	8.85E-03	7.59E-04
	13	663.29	2.20E+01	26.19	8.69E-03	7.44E-04
	14	703.75	2.60E+01	17.72	8.30E-03	7.18E-04
	15	727.88	1.00E+01	12.65	8.08E-03	7.03E-04
	16	750.57	1.77E+01	11.35	7.89E-03	6.88E-04
	17	804.10	2.27E+01	13.29	7.46E-03	6.54E-04
	18	869.93	1.65E+01	10.58	7.00E-03	6.11E-04
	19	983.69	1.21E+01	12.45	6.34E-03	5.50E-04
	20	1047.56	1.27E+01	13.22	6.02E-03	5.17E-04
	21	1120.30	1.80E+01	10.44	5.70E-03	4.80E-04
	22	1182.46	9.57E+00	9.82	5.46E-03	4.57E-04
	23	1238.57	8.00E+00	5.66	5.27E-03	4.83E-04
	24	1460.28	1.93E+01	10.87	4.67E-03	4.73E-04
	25	1474.67	7.00E+00	5.29	4.64E-03	4.68E-04
	26	1764.97	1.10E+01	6.63	4.18E-03	3.47E-04
	27	2086.53	7.00E+00	5.29	3.96E-03	3.18E-04
	28	2615.53	1.40E+01	7.48	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 2:44:31PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	13.86	1.98E+03	134.38	1.24E+03	4.65E+01	7.46E+02	1.42E+02
	2	77.04	7.19E+01	44.39			7.19E+01	4.44E+01
	3	144.31	6.93E+01	49.80	5.99E+00	7.82E+00	6.33E+01	5.04E+01
	4	185.69	8.86E+01	36.93	4.79E+01	7.81E+00	4.07E+01	3.77E+01
M	5	238.88	5.25E+01	23.66	2.21E+01	3.31E+00	3.05E+01	2.39E+01
	6	294.98	4.09E+01	28.84	1.30E+01	5.93E+00	2.79E+01	2.94E+01
	7	311.34	3.07E+01	26.01			3.07E+01	2.60E+01
M	8	329.05	1.91E+01	15.87			1.91E+01	1.59E+01
m	9	338.68	2.22E+01	20.52			2.22E+01	2.05E+01
	10	351.98	5.25E+01	31.56	1.67E+01	5.59E+00	3.58E+01	3.21E+01
	11	583.18	3.05E+01	20.36	7.99E+00	3.88E+00	2.25E+01	2.07E+01
	12	647.67	1.64E+01	15.23			1.64E+01	1.52E+01
	13	663.29	2.20E+01	26.19			2.20E+01	2.62E+01
	14	703.75	2.60E+01	17.72			2.60E+01	1.77E+01
	15	727.88	1.00E+01	12.65			1.00E+01	1.26E+01
	16	750.57	1.77E+01	11.35			1.77E+01	1.13E+01
	17	804.10	2.27E+01	13.29	2.00E+00	2.95E+00	2.07E+01	1.36E+01
	18	869.93	1.65E+01	10.58			1.65E+01	1.06E+01
	19	983.69	1.21E+01	12.45			1.21E+01	1.24E+01
	20	1047.56	1.27E+01	13.22			1.27E+01	1.32E+01
	21	1120.30	1.80E+01	10.44	5.40E+00	2.54E+00	1.26E+01	1.07E+01
	22	1182.46	9.57E+00	9.82			9.57E+00	9.82E+00
	23	1238.57	8.00E+00	5.66	1.40E+00	2.38E+00	6.60E+00	6.14E+00
	24	1460.28	1.93E+01	10.87			1.93E+01	1.09E+01
	25	1474.67	7.00E+00	5.29			7.00E+00	5.29E+00
	26	1764.97	1.10E+01	6.63	4.45E+00	2.04E+00	6.55E+00	6.94E+00
	27	2086.53	7.00E+00	5.29			7.00E+00	5.29E+00
	28	2615.53	1.40E+01	7.48	6.29E+00	1.69E+00	7.71E+00	7.67E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 2:44:31PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	13.86	1.98E+03	134.38	1.24E+03	4.65E+01	7.46E+02	1.42E+02
	2	77.04	7.19E+01	44.39			7.19E+01	4.44E+01
	3	144.31	6.93E+01	49.80	5.99E+00	7.82E+00	6.33E+01	5.04E+01
	4	185.69	8.86E+01	36.93	4.79E+01	7.81E+00	4.07E+01	3.77E+01
M	5	238.88	5.25E+01	23.66	2.21E+01	3.31E+00	3.05E+01	2.39E+01
	6	294.98	4.09E+01	28.84	1.30E+01	5.93E+00	2.79E+01	2.94E+01
	7	311.34	3.07E+01	26.01			3.07E+01	2.60E+01
M	8	329.05	1.91E+01	15.87			1.91E+01	1.59E+01
m	9	338.68	2.22E+01	20.52			2.22E+01	2.05E+01
	10	351.98	5.25E+01	31.56	1.67E+01	5.59E+00	3.58E+01	3.21E+01
	11	583.18	3.05E+01	20.36	7.99E+00	3.88E+00	2.25E+01	2.07E+01
	12	647.67	1.64E+01	15.23			1.64E+01	1.52E+01
	13	663.29	2.20E+01	26.19			2.20E+01	2.62E+01
	14	703.75	2.60E+01	17.72			2.60E+01	1.77E+01
	15	727.88	1.00E+01	12.65			1.00E+01	1.26E+01
	16	750.57	1.77E+01	11.35			1.77E+01	1.13E+01
	17	804.10	2.27E+01	13.29	2.00E+00	2.95E+00	2.07E+01	1.36E+01
	18	869.93	1.65E+01	10.58			1.65E+01	1.06E+01
	19	983.69	1.21E+01	12.45			1.21E+01	1.24E+01
	20	1047.56	1.27E+01	13.22			1.27E+01	1.32E+01
	21	1120.30	1.80E+01	10.44	5.40E+00	2.54E+00	1.26E+01	1.07E+01
	22	1182.46	9.57E+00	9.82			9.57E+00	9.82E+00
	23	1238.57	8.00E+00	5.66	1.40E+00	2.38E+00	6.60E+00	6.14E+00
	24	1460.28	1.93E+01	10.87			1.93E+01	1.09E+01
	25	1474.67	7.00E+00	5.29			7.00E+00	5.29E+00
	26	1764.97	1.10E+01	6.63	4.45E+00	2.04E+00	6.55E+00	6.94E+00
	27	2086.53	7.00E+00	5.29			7.00E+00	5.29E+00
	28	2615.53	1.40E+01	7.48	6.29E+00	1.69E+00	7.71E+00	7.67E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.956	1460.81	*	10.67	2.17E+00	1.25E+00
TL-208	0.833	583.14	*	30.22	4.37E-01	4.04E-01
		860.37		4.48		

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.833	2614.66	*	35.85	2.99E-01	2.98E-01
BI-212	0.702	727.17	*	11.80	5.90E-01	7.48E-01
		1620.62		2.75		
PB-212	0.885	238.63	*	44.60	2.15E-01	1.70E-01
		300.09		3.41		
PB-214	0.997	295.21	*	19.19	5.29E-01	5.60E-01
		351.92	*	37.19	3.95E-01	3.55E-01
RA-226	0.958	186.21	*	3.28	3.31E+00	6.79E+00
PA-233	0.927	311.98	*	38.60	8.43E-01	7.40E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 2:44:31PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.86	2.07336E-01	9.53		
	2	77.04	1.99789E-02	30.86		
	3	144.31	1.75957E-02	39.79	Tol.	U-235
M	8	329.05	5.31310E-03	41.50	Tol.	LA-140
m	9	338.68	6.15931E-03	46.27	Tol.	AC-228
	12	647.67	4.55556E-03	46.44	Sum	
	13	663.29	6.11830E-03	59.45	Sum	
	14	703.75	7.22222E-03	34.08	Sum	
	16	750.57	4.90338E-03	32.14		
	17	804.10	5.74353E-03	32.93		
	18	869.93	4.59722E-03	31.97		
	19	983.69	3.36806E-03	51.34	Tol.	V-48
	20	1047.56	3.52513E-03	52.08	Tol.	CS-136
	21	1120.30	3.51365E-03	42.47	Tol.	SC-46
						TA-182
						BI-214
	22	1182.46	2.65873E-03	51.32		
	23	1238.57	1.83449E-03	46.47	Tol.	CO-56
	25	1474.67	1.94444E-03	37.80		
	26	1764.97	1.81889E-03	53.00	Tol.	BI-214

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
27	2086.53	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.95	1460.81	*	10.67	2.17E+00	1.25E+00
TL-208	0.83	583.14	*	30.22	4.37E-01	4.04E-01
		860.37		4.48		
		2614.66	*	35.85	2.99E-01	2.98E-01
BI-212	0.70	727.17	*	11.80	5.90E-01	7.48E-01
		1620.62		2.75		
PB-212	0.88	238.63	*	44.60	2.15E-01	1.70E-01
		300.09		3.41		
PB-214	0.99	295.21	*	19.19	5.29E-01	5.60E-01
		351.92	*	37.19	3.95E-01	3.55E-01
RA-226	0.95	186.21	*	3.28	3.31E+00	6.79E+00
PA-233	0.92	311.98	*	38.60	8.43E-01	7.40E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.956	2.17E+00	1.25E+00	
TL-208	0.833	3.47E-01	2.40E-01	
BI-212	0.702	5.90E-01	7.48E-01	
PB-212	0.885	2.15E-01	1.70E-01	
PB-214	0.997	4.33E-01	3.00E-01	
RA-226	0.958	3.31E+00	6.79E+00	
PA-233	0.927	8.43E-01	7.40E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 2:44:31PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.86	2.07336E-01	9.53		
	2	77.04	1.99789E-02	30.86		
	3	144.31	1.75957E-02	39.79	Tol.	U-235
M	8	329.05	5.31310E-03	41.50	Tol.	LA-140
m	9	338.68	6.15931E-03	46.27	Tol.	AC-228
	12	647.67	4.55556E-03	46.44	Sum	
	13	663.29	6.11830E-03	59.45	Sum	
	14	703.75	7.22222E-03	34.08	Sum	
	16	750.57	4.90338E-03	32.14		
	17	804.10	5.74353E-03	32.93		
	18	869.93	4.59722E-03	31.97		
	19	983.69	3.36806E-03	51.34	Tol.	V-48
	20	1047.56	3.52513E-03	52.08	Tol.	CS-136
	21	1120.30	3.51365E-03	42.47	Tol.	SC-46
						TA-182
						BI-214
	22	1182.46	2.65873E-03	51.32		
	23	1238.57	1.83449E-03	46.47	Tol.	CO-56
	25	1474.67	1.94444E-03	37.80		
	26	1764.97	1.81889E-03	53.00	Tol.	BI-214
	27	2086.53	1.94444E-03	37.80		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	-1.20E-01	2.17E+00	2.17E+00
+		NA-22	1274.54		99.94	-1.12E-03	1.47E-01	1.47E-01
+		NA-24	1368.53		99.99	9.41E+17	9.12E+17	4.30E+18
			2754.09		99.86	0.00E+00		9.12E+17
+		AL-26	1808.65		99.76	5.45E-02	1.64E-01	1.64E-01
+		K-40	1460.81	*	10.67	2.17E+00	1.50E+00	1.50E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	7.50E-03	8.52E-02	8.52E-02
			78.34		96.00	1.64E-01		1.14E-01
+		SC-46	889.25		99.98	-4.93E-02	2.50E-01	2.50E-01
			1120.51		99.99	2.02E-01		3.16E-01
+		V-48	983.52		99.98	8.82E-01	9.86E-01	1.17E+00
			1312.10		97.50	4.60E-01		9.86E-01
+		CR-51	320.08		9.83	2.48E-01	3.36E+00	3.36E+00
+		MN-54	834.83		99.97	-9.01E-02	1.48E-01	1.48E-01
+		CO-56	846.75		99.96	6.72E-02	2.80E-01	2.80E-01
			1037.75		14.03	-2.36E-02		1.64E+00
			1238.25		67.00	2.27E-02		3.60E-01
			1771.40		15.51	-2.10E-01		1.62E+00
			2598.48		16.90	1.33E-01		1.54E+00
+		CO-57	122.06		85.51	-1.68E-02	1.27E-01	1.27E-01
			136.48		10.60	4.06E-01		1.03E+00
+		CO-58	810.76		99.40	1.64E-02	2.21E-01	2.21E-01
+		FE-59	1099.22		56.50	-1.41E-01	6.66E-01	6.66E-01
			1291.56		43.20	1.19E-01		6.73E-01
+		CO-60	1173.22		100.00	7.50E-03	1.73E-01	1.73E-01
			1332.49		100.00	2.29E-02		1.91E-01
+		ZN-65	1115.52		50.75	-8.69E-02	3.26E-01	3.26E-01
+		GA-67	93.31		35.70	1.78E+03	1.91E+03	1.91E+03
			208.95		2.24	7.31E+03		2.70E+04
			300.22		16.00	2.85E+02		3.72E+03
+		SE-75	121.11		16.70	8.56E-02	2.12E-01	7.37E-01
			136.00		59.20	6.35E-03		2.12E-01
			264.65		59.80	-1.27E-02		2.65E-01
			279.53		25.20	1.58E-01		6.75E-01
			400.65		11.40	-3.42E-01		1.31E+00
+		RB-82	776.52		13.00	5.12E-01	4.12E+00	4.12E+00
+		RB-83	520.41		46.00	1.30E-01	4.43E-01	4.43E-01
			529.64		30.30	8.78E-02		6.48E-01
			552.65		16.40	9.70E-02		1.24E+00
+		KR-85	513.99		0.43	7.64E+00	4.62E+01	4.62E+01
+		SR-85	513.99		99.27	5.10E-02	3.08E-01	3.08E-01
+		Y-88	898.02		93.40	-3.71E-03	1.93E-01	2.51E-01
			1836.01		99.38	5.37E-02		1.93E-01
+		NB-93M	16.57		9.43	-3.19E+04	1.86E+04	1.86E+04
+		NB-94	702.63		100.00	-4.13E-02	1.71E-01	1.88E-01
			871.10		100.00	3.59E-02		1.71E-01

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	-3.79E-03	3.52E-01	3.52E-01
+	NB-95M	235.69	25.00	3.16E+02	1.19E+03	1.19E+03
+	ZR-95	724.18	43.70	4.91E-02	5.02E-01	6.02E-01
		756.72	55.30	8.73E-03		5.02E-01
+	MO-99	181.06	6.20	-2.81E+03	2.91E+04	4.34E+04
		739.58	12.80	-2.25E+03		2.91E+04
		778.00	4.50	-5.62E+04		9.34E+04
+	RU-103	497.08	89.00	-6.92E-02	3.10E-01	3.10E-01
+	RU-106	621.84	9.80	-8.75E-01	1.60E+00	1.60E+00
+	AG-108M	433.93	89.90	1.41E-02	1.66E-01	1.66E-01
		614.37	90.40	-3.54E-01		1.93E-01
		722.95	90.50	1.91E-02		1.80E-01
+	CD-109	88.03	3.72	1.86E+00	3.25E+00	3.25E+00
+	AG-110M	657.75	93.14	5.11E-02	2.54E-01	2.54E-01
		677.61	10.53	2.53E-01		1.82E+00
		706.67	16.46	3.40E-01		1.28E+00
		763.93	21.98	-9.00E-02		8.26E-01
		884.67	71.63	7.66E-02		2.85E-01
		1384.27	23.94	2.52E-01		9.44E-01
+	CD-113M	263.70	0.02	2.23E+02	5.66E+02	5.66E+02
+	SN-113	255.12	1.93	-2.66E+00	2.37E-01	6.91E+00
		391.69	64.90	-7.37E-02		2.37E-01
+	TE123M	159.00	84.10	-3.31E-02	1.58E-01	1.58E-01
+	SB-124	602.71	97.87	-1.59E-02	2.84E-01	2.84E-01
		645.85	7.26	6.72E-01		3.73E+00
		722.78	11.10	2.48E-01		2.33E+00
		1691.02	49.00	-1.28E-01		6.02E-01
+	I-125	35.49	6.49	-3.35E+00	1.84E+01	1.84E+01
+	SB-125	176.33	6.89	-1.09E+00	5.04E-01	1.47E+00
		427.89	29.33	4.00E-02		5.04E-01
		463.38	10.35	1.74E-01		1.35E+00
		600.56	17.80	-4.40E-01		9.00E-01
		635.90	11.32	2.32E-01		1.60E+00
+	SB-126	414.70	83.30	3.85E-01	1.41E+00	1.41E+00
		666.33	99.60	7.53E-02		1.69E+00
		695.00	99.60	8.65E-01		1.91E+00
		720.50	53.80	3.81E-01		3.11E+00
+	SN-126	87.57	37.00	1.76E-01	3.08E-01	3.08E-01
+	SB-127	473.00	25.00	-1.68E+02	6.53E+02	6.53E+02
		685.20	35.70	-4.73E+01		6.55E+02
		783.80	14.70	0.00E+00		1.70E+03
+	I-129	29.78	57.00	-2.19E-01	3.76E+00	3.76E+00
		33.60	13.20	3.77E+00		8.29E+00
		39.58	7.52	4.90E-01		6.52E+00
+	I-131	284.30	6.05	0.00E+00	4.90E+00	6.40E+01
		364.48	81.20	1.01E-02		4.90E+00
		636.97	7.26	2.60E+00		7.96E+01
		722.89	1.80	3.10E+01		2.91E+02

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	-2.97E+03	7.01E+02	9.42E+03
			228.16	88.00	-1.10E+02		7.01E+02
+		BA-133	81.00	33.00	4.29E-02	2.10E-01	2.10E-01
			302.84	17.80	2.72E-01		7.32E-01
			356.01	60.00	2.08E-02		2.23E-01
+		I-133	529.87	86.30	-2.46E+12	1.48E+13	1.48E+13
+		CS-134	563.23	8.38	1.10E-01	1.83E-01	1.74E+00
			569.32	15.43	1.31E-01		1.04E+00
			604.70	97.60	-3.79E-01		1.91E-01
			795.84	85.40	-2.92E-02		1.83E-01
			801.93	8.73	1.85E-01		2.24E+00
+		CS-135	268.24	16.00	2.57E-01	8.25E-01	8.25E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	-6.91E+00	1.33E+00	1.03E+01
			163.89	4.61	1.15E+01		1.96E+01
			176.55	13.56	7.37E-01		6.48E+00
			273.65	12.66	-2.05E+00		7.39E+00
			340.57	48.50	1.58E-01		2.34E+00
			818.50	99.70	-1.41E-01		1.33E+00
			1048.07	79.60	8.44E-01		2.20E+00
			1235.34	19.70	4.51E-01		7.16E+00
+		CS-137	661.65	85.12	4.45E-02	2.56E-01	2.56E-01
+		LA-138	788.74	34.00	-1.44E-01	3.00E-01	4.90E-01
			1435.80	66.00	4.91E-02		3.00E-01
+		CE-139	165.85	80.35	-4.22E-02	1.52E-01	1.52E-01
+		BA-140	162.64	6.70	5.73E+00	4.40E+00	1.46E+01
			304.84	4.50	1.19E+01		2.43E+01
			423.70	3.20	1.14E+01		3.91E+01
			437.55	2.00	5.29E+00		6.39E+01
			537.32	25.00	1.47E-01		4.40E+00
+		LA-140	328.77	20.50	9.92E-01	2.06E+00	6.41E+00
			487.03	45.50	-1.19E-01		2.56E+00
			815.85	23.50	1.19E+00		6.13E+00
			1596.49	95.49	-1.42E-01		2.06E+00
+		CE-141	145.44	48.40	3.07E-01	5.70E-01	5.70E-01
+		CE-143	57.36	11.80	-3.53E+07	2.30E+08	7.02E+08
			293.26	42.00	5.81E+07		2.30E+08
			664.55	5.20	1.65E+09		2.63E+09
+		CE-144	133.54	10.80	4.96E-01	1.09E+00	1.09E+00
+		PM-144	476.78	42.00	-1.90E-02	1.87E-01	3.44E-01
			618.01	98.60	3.54E-02		1.87E-01
			696.49	99.49	-3.54E-02		2.06E-01
+		PM-145	36.85	21.70	-9.99E-01	1.48E+00	2.89E+00
			37.36	39.70	-5.13E-01		1.48E+00
			42.30	15.10	5.77E-01		2.67E+00
			72.40	2.31	8.64E-01		4.07E+00
+		PM-146	453.90	39.94	6.09E-02	3.23E-01	3.23E-01

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90	14.01	7.91E-02	3.23E-01	1.14E+00
		747.13	13.10	0.00E+00		1.20E+00
+	ND-147	91.11	28.90	4.59E-01	5.50E+00	5.50E+00
		531.02	13.10	9.97E-01		1.36E+01
+	PM-149	285.90	3.10	-8.44E+04	1.14E+06	1.14E+06
+	EU-152	121.78	20.50	-6.34E-02	4.79E-01	4.79E-01
		244.69	5.40	-2.09E+00		2.26E+00
		344.27	19.13	9.42E-02		6.50E-01
		778.89	9.20	-1.21E+00		1.76E+00
		964.01	10.40	-7.55E-01		1.80E+00
		1085.78	7.22	2.01E-01		1.89E+00
		1112.02	9.60	1.45E-01		1.86E+00
		1407.95	14.94	5.27E-02		1.11E+00
+	GD-153	97.43	31.30	-1.78E-01	3.31E-01	3.31E-01
		103.18	22.20	1.92E-02		4.56E-01
+	EU-154	123.07	40.50	-2.11E-03	2.40E-01	2.40E-01
		723.30	19.70	8.87E-02		8.34E-01
		873.19	11.50	-1.06E-01		1.42E+00
		996.32	10.30	1.76E-02		1.53E+00
		1004.76	17.90	4.53E-01		1.17E+00
		1274.45	35.50	-3.10E-03		4.06E-01
+	EU-155	86.50	30.90	-1.18E-01	3.65E-01	3.65E-01
		105.30	20.70	1.32E-01		4.54E-01
+	EU-156	811.77	10.40	-2.17E+00	7.64E+00	7.64E+00
		1153.47	7.20	4.40E+00		1.47E+01
		1230.71	8.90	6.47E+00		1.41E+01
+	HO-166M	184.41	72.60	1.65E-01	1.95E-01	1.95E-01
		280.45	29.60	1.07E-01		4.56E-01
		410.94	11.10	-5.65E-01		1.03E+00
		711.69	54.10	-1.18E-01		2.46E-01
+	TM-171	66.72	0.14	2.84E+01	6.52E+01	6.52E+01
+	HF-172	81.75	4.52	-6.31E-01	8.98E-01	1.58E+00
		125.81	11.30	-5.16E-01		8.98E-01
+	LU-172	181.53	20.60	-1.04E+01	1.58E+01	3.35E+01
		810.06	16.63	4.25E+00		5.73E+01
		912.12	15.25	3.83E+01		1.01E+02
		1093.66	62.50	-1.62E+00		1.58E+01
+	LU-173	100.72	5.24	-1.61E-01	5.76E-01	1.79E+00
		272.11	21.20	-2.02E-01		5.76E-01
+	HF-175	343.40	84.00	-8.17E-03	2.19E-01	2.19E-01
+	LU-176	88.34	13.30	4.89E-01	1.18E-01	8.56E-01
		201.83	86.00	8.67E-02		1.36E-01
		306.78	94.00	-1.59E-02		1.18E-01
+	TA-182	67.75	41.20	2.19E-02	2.49E-01	2.49E-01
		1121.30	34.90	4.29E-01		8.10E-01
		1189.05	16.23	1.71E-01		1.42E+00
		1221.41	26.98	7.49E-02		9.40E-01
		1231.02	11.44	4.74E-01		1.98E+00
+	IR-192	308.46	29.68	7.50E-02	3.94E-01	5.71E-01

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	1.00E-01	3.94E-01	3.94E-01
+	HG-203	279.19		77.30	-2.52E-02	3.09E-01	3.09E-01
+	BI-207	569.67		97.72	1.99E-02	1.59E-01	1.59E-01
		1063.62		74.90	-1.27E-02		2.47E-01
+	TL-208	583.14	*	30.22	4.37E-01	4.42E-01	6.42E-01
		860.37		4.48	2.72E+00		4.61E+00
		2614.66	*	35.85	2.99E-01		4.42E-01
+	BI-210M	262.00		45.00	8.20E-02	2.80E-01	2.80E-01
		300.00		23.00	3.80E-02		4.96E-01
+	PB-210	46.50		4.25	8.73E+00	7.90E+00	7.90E+00
+	PB-211	404.84		2.90	-2.91E+00	4.52E+00	4.52E+00
		831.96		2.90	6.68E-01		5.20E+00
+	BI-212	727.17	*	11.80	5.90E-01	1.22E+00	1.22E+00
		1620.62		2.75	6.68E-01		7.02E+00
+	PB-212	238.63	*	44.60	2.15E-01	4.42E-01	4.42E-01
		300.09		3.41	2.56E-01		3.34E+00
+	BI-214	609.31		46.30	4.03E-01	5.35E-01	5.35E-01
		1120.29		15.10	9.59E-01		1.50E+00
		1764.49		15.80	3.44E-01		1.54E+00
		2204.22		4.98	1.09E+00		4.05E+00
+	PB-214	295.21	*	19.19	5.29E-01	5.69E-01	9.08E-01
		351.92	*	37.19	3.95E-01		5.69E-01
+	RN-219	401.80		6.50	-7.79E-01	1.92E+00	1.92E+00
+	RA-223	323.87		3.88	9.71E-01	2.90E+00	2.90E+00
+	RA-224	240.98		3.95	3.88E+00	4.26E+00	4.26E+00
+	RA-225	40.00		31.00	7.52E-01	1.00E+01	1.00E+01
+	RA-226	186.21	*	3.28	3.31E+00	4.97E+00	4.97E+00
+	TH-227	50.10		8.40	-8.67E-01	1.13E+00	2.75E+00
		236.00		11.50	3.01E-01		1.13E+00
		256.20		6.30	-8.03E-01		1.65E+00
+	AC-228	338.32		11.40	6.07E-01	8.49E-01	1.34E+00
		911.07		27.70	1.43E-01		8.49E-01
		969.11		16.60	9.10E-02		1.19E+00
+	TH-230	48.44		16.90	-1.00E-01	1.58E+00	1.58E+00
		62.85		4.60	2.14E+00		2.47E+00
		67.67		0.37	1.92E+00		2.18E+01
+	PA-231	283.67		1.60	0.00E+00	5.62E+00	7.50E+00
		302.67		2.30	2.09E+00		5.62E+00
+	TH-231	25.64		14.70	-2.25E+01	1.22E+00	4.59E+01
		84.21		6.40	8.03E-03		1.22E+00
+	PA-233	311.98	*	38.60	8.43E-01	1.14E+00	1.14E+00
+	PA-234	131.20		20.40	2.44E-01	5.18E-01	5.18E-01
		733.99		8.80	7.21E-01		1.91E+00
		946.00		12.00	-5.43E-01		1.40E+00
+	PA-234M	1001.03		0.92	4.28E+00	2.09E+01	2.09E+01
+	TH-234	63.29		3.80	2.57E+00	2.97E+00	2.97E+00
+	U-235	143.76		10.50	1.49E-01	1.08E+00	1.08E+00

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35	4.70	9.23E-01	1.08E+00	2.36E+00
		205.31	4.70	1.76E+00		2.50E+00
+	NP-237	86.50	12.60	-2.85E-01	8.80E-01	8.80E-01
+	NP-239	106.10	22.70	-6.37E+03	5.68E+04	5.68E+04
		228.18	10.70	-2.41E+04		1.54E+05
		277.60	14.10	2.83E+04		1.29E+05
+	AM-241	59.54	35.90	7.38E-02	2.91E-01	2.91E-01
+	AM-243	74.67	66.00	-2.33E-01	1.42E-01	1.42E-01
+	CM-243	209.75	3.29	-1.27E+00	9.30E-01	3.41E+00
		228.14	10.60	-1.74E-01		1.11E+00
		277.60	14.00	2.03E-01		9.30E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	2.17E+00	2.17E+00	-1.20E-01	9.74E-01
	NA-22	1274.54		99.94	1.47E-01	1.47E-01	-1.12E-03	5.85E-02
	NA-24	1368.53		99.99	4.30E+18	9.12E+17	9.41E+17	1.76E+18
		2754.09		99.86	9.12E+17		0.00E+00	0.00E+00
	AL-26	1808.65		99.76	1.64E-01	1.64E-01	5.45E-02	6.34E-02
+	K-40	1460.81	*	10.67	1.50E+00	1.50E+00	2.17E+00	5.96E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	8.52E-02	8.52E-02	7.50E-03	3.94E-02
		78.34		96.00	1.14E-01		1.64E-01	5.42E-02
	SC-46	889.25		99.98	2.50E-01	2.50E-01	-4.93E-02	1.09E-01
		1120.51		99.99	3.16E-01		2.02E-01	1.40E-01
	V-48	983.52		99.98	1.17E+00	9.86E-01	8.82E-01	5.17E-01

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
V-48	1312.10	97.50	9.86E-01	9.86E-01	4.60E-01	4.04E-01
CR-51	320.08	9.83	3.36E+00	3.36E+00	2.48E-01	1.54E+00
MN-54	834.83	99.97	1.48E-01	1.48E-01	-9.01E-02	6.25E-02
CO-56	846.75	99.96	2.80E-01	2.80E-01	6.72E-02	1.25E-01
	1037.75	14.03	1.64E+00		-2.36E-02	6.93E-01
	1238.25	67.00	3.60E-01		2.27E-02	1.49E-01
	1771.40	15.51	1.62E+00		-2.10E-01	6.44E-01
	2598.48	16.90	1.54E+00		1.33E-01	6.11E-01
CO-57	122.06	85.51	1.27E-01	1.27E-01	-1.68E-02	5.97E-02
	136.48	10.60	1.03E+00		4.06E-01	4.84E-01
CO-58	810.76	99.40	2.21E-01	2.21E-01	1.64E-02	9.50E-02
FE-59	1099.22	56.50	6.66E-01	6.66E-01	-1.41E-01	2.90E-01
	1291.56	43.20	6.73E-01		1.19E-01	2.72E-01
CO-60	1173.22	100.00	1.73E-01	1.73E-01	7.50E-03	7.25E-02
	1332.49	100.00	1.91E-01		2.29E-02	7.99E-02
ZN-65	1115.52	50.75	3.26E-01	3.26E-01	-8.69E-02	1.34E-01
GA-67	93.31	35.70	1.91E+03	1.91E+03	1.78E+03	9.16E+02
	208.95	2.24	2.70E+04		7.31E+03	1.26E+04
	300.22	16.00	3.72E+03		2.85E+02	1.70E+03
SE-75	121.11	16.70	7.37E-01	2.12E-01	8.56E-02	3.47E-01
	136.00	59.20	2.12E-01		6.35E-03	9.97E-02
	264.65	59.80	2.65E-01		-1.27E-02	1.23E-01
	279.53	25.20	6.75E-01		1.58E-01	3.14E-01
	400.65	11.40	1.31E+00		-3.42E-01	5.89E-01
RB-82	776.52	13.00	4.12E+00	4.12E+00	5.12E-01	1.83E+00
RB-83	520.41	46.00	4.43E-01	4.43E-01	1.30E-01	2.00E-01
	529.64	30.30	6.48E-01		8.78E-02	2.90E-01
	552.65	16.40	1.24E+00		9.70E-02	5.53E-01
KR-85	513.99	0.43	4.62E+01	4.62E+01	7.64E+00	2.14E+01
SR-85	513.99	99.27	3.08E-01	3.08E-01	5.10E-02	1.43E-01
Y-88	898.02	93.40	2.51E-01	1.93E-01	-3.71E-03	1.10E-01
	1836.01	99.38	1.93E-01		5.37E-02	7.21E-02
NB-93M	16.57	9.43	1.86E+04	1.86E+04	-3.19E+04	8.98E+03
NB-94	702.63	100.00	1.88E-01	1.71E-01	-4.13E-02	8.48E-02
	871.10	100.00	1.71E-01		3.59E-02	7.48E-02
NB-95	765.79	99.81	3.52E-01	3.52E-01	-3.79E-03	1.54E-01
NB-95M	235.69	25.00	1.19E+03	1.19E+03	3.16E+02	5.54E+02
ZR-95	724.18	43.70	6.02E-01	5.02E-01	4.91E-02	2.68E-01
	756.72	55.30	5.02E-01		8.73E-03	2.24E-01
MO-99	181.06	6.20	4.34E+04	2.91E+04	-2.81E+03	2.02E+04
	739.58	12.80	2.91E+04		-2.25E+03	1.27E+04
	778.00	4.50	9.34E+04		-5.62E+04	4.11E+04
RU-103	497.08	89.00	3.10E-01	3.10E-01	-6.92E-02	1.39E-01
RU-106	621.84	9.80	1.60E+00	1.60E+00	-8.75E-01	7.06E-01
AG-108M	433.93	89.90	1.66E-01	1.66E-01	1.41E-02	7.57E-02
	614.37	90.40	1.93E-01		-3.54E-01	8.76E-02
	722.95	90.50	1.80E-01		1.91E-02	7.97E-02
CD-109	88.03	3.72	3.25E+00	3.25E+00	1.86E+00	1.55E+00
AG-110M	657.75	93.14	2.54E-01	2.54E-01	5.11E-02	1.16E-01
	677.61	10.53	1.82E+00		2.53E-01	8.13E-01
	706.67	16.46	1.28E+00		3.40E-01	5.79E-01
	763.93	21.98	8.26E-01		-9.00E-02	3.63E-01
	884.67	71.63	2.85E-01		7.66E-02	1.25E-01

Analysis Report for 1506114-19

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	1384.27	23.94	9.44E-01	2.54E-01	2.52E-01	3.99E-01
CD-113M	263.70	0.02	5.66E+02	5.66E+02	2.23E+02	2.63E+02
SN-113	255.12	1.93	6.91E+00	2.37E-01	-2.66E+00	3.16E+00
	391.69	64.90	2.37E-01		-7.37E-02	1.07E-01
TE123M	159.00	84.10	1.58E-01	1.58E-01	-3.31E-02	7.42E-02
SB-124	602.71	97.87	2.84E-01	2.84E-01	-1.59E-02	1.29E-01
	645.85	7.26	3.73E+00		6.72E-01	1.68E+00
	722.78	11.10	2.33E+00		2.48E-01	1.03E+00
	1691.02	49.00	6.02E-01		-1.28E-01	2.43E-01
I-125	35.49	6.49	1.84E+01	1.84E+01	-3.35E+00	8.84E+00
SB-125	176.33	6.89	1.47E+00	5.04E-01	-1.09E+00	6.82E-01
	427.89	29.33	5.04E-01		4.00E-02	2.30E-01
	463.38	10.35	1.35E+00		1.74E-01	6.07E-01
	600.56	17.80	9.00E-01		-4.40E-01	4.03E-01
	635.90	11.32	1.60E+00		2.32E-01	7.25E-01
SB-126	414.70	83.30	1.41E+00	1.41E+00	3.85E-01	6.33E-01
	666.33	99.60	1.69E+00		7.53E-02	7.63E-01
	695.00	99.60	1.91E+00		8.65E-01	8.69E-01
	720.50	53.80	3.11E+00		3.81E-01	1.39E+00
SN-126	87.57	37.00	3.08E-01	3.08E-01	1.76E-01	1.47E-01
SB-127	473.00	25.00	6.53E+02	6.53E+02	-1.68E+02	2.88E+02
	685.20	35.70	6.55E+02		-4.73E+01	2.92E+02
	783.80	14.70	1.70E+03		0.00E+00	7.54E+02
I-129	29.78	57.00	3.76E+00	3.76E+00	-2.19E-01	1.80E+00
	33.60	13.20	8.29E+00		3.77E+00	3.99E+00
	39.58	7.52	6.52E+00		4.90E-01	3.13E+00
I-131	284.30	6.05	6.40E+01	4.90E+00	0.00E+00	2.94E+01
	364.48	81.20	4.90E+00		1.01E-02	2.23E+00
	636.97	7.26	7.96E+01		2.60E+00	3.61E+01
	722.89	1.80	2.91E+02		3.10E+01	1.29E+02
TE-132	49.72	13.10	9.42E+03	7.01E+02	-2.97E+03	4.52E+03
	228.16	88.00	7.01E+02		-1.10E+02	3.26E+02
BA-133	81.00	33.00	2.10E-01	2.10E-01	4.29E-02	9.68E-02
	302.84	17.80	7.32E-01		2.72E-01	3.38E-01
	356.01	60.00	2.23E-01		2.08E-02	1.02E-01
I-133	529.87	86.30	1.48E+13	1.48E+13	-2.46E+12	6.57E+12
CS-134	563.23	8.38	1.74E+00	1.83E-01	1.10E-01	7.73E-01
	569.32	15.43	1.04E+00		1.31E-01	4.69E-01
	604.70	97.60	1.91E-01		-3.79E-01	8.70E-02
	795.84	85.40	1.83E-01		-2.92E-02	7.91E-02
	801.93	8.73	2.24E+00		1.85E-01	9.98E-01
CS-135	268.24	16.00	8.25E-01	8.25E-01	2.57E-01	3.84E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	1.03E+01	1.33E+00	-6.91E+00	4.81E+00
	163.89	4.61	1.96E+01		1.15E+01	9.22E+00
	176.55	13.56	6.48E+00		7.37E-01	3.02E+00
	273.65	12.66	7.39E+00		-2.05E+00	3.39E+00
	340.57	48.50	2.34E+00		1.58E-01	1.08E+00
	818.50	99.70	1.33E+00		-1.41E-01	5.76E-01
	1048.07	79.60	2.20E+00		8.44E-01	9.67E-01
	1235.34	19.70	7.16E+00		4.51E-01	2.97E+00

Analysis Report for 1506114-19

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-137	661.65	85.12	2.56E-01	2.56E-01	4.45E-02	1.17E-01
LA-138	788.74	34.00	4.90E-01	3.00E-01	-1.44E-01	2.15E-01
	1435.80	66.00	3.00E-01		4.91E-02	1.26E-01
CE-139	165.85	80.35	1.52E-01	1.52E-01	-4.22E-02	7.10E-02
BA-140	162.64	6.70	1.46E+01	4.40E+00	5.73E+00	6.88E+00
	304.84	4.50	2.43E+01		1.19E+01	1.12E+01
	423.70	3.20	3.91E+01		1.14E+01	1.78E+01
	437.55	2.00	6.39E+01		5.29E+00	2.91E+01
	537.32	25.00	4.40E+00		1.47E-01	1.94E+00
LA-140	328.77	20.50	6.41E+00	2.06E+00	9.92E-01	2.97E+00
	487.03	45.50	2.56E+00		-1.19E-01	1.14E+00
	815.85	23.50	6.13E+00		1.19E+00	2.68E+00
	1596.49	95.49	2.06E+00		-1.42E-01	8.71E-01
CE-141	145.44	48.40	5.70E-01	5.70E-01	3.07E-01	2.70E-01
CE-143	57.36	11.80	7.02E+08	2.30E+08	-3.53E+07	3.31E+08
	293.26	42.00	2.30E+08		5.81E+07	1.08E+08
	664.55	5.20	2.63E+09		1.65E+09	1.20E+09
CE-144	133.54	10.80	1.09E+00	1.09E+00	4.96E-01	5.17E-01
PM-144	476.78	42.00	3.44E-01	1.87E-01	-1.90E-02	1.55E-01
	618.01	98.60	1.87E-01		3.54E-02	8.42E-02
	696.49	99.49	2.06E-01		-3.54E-02	9.30E-02
PM-145	36.85	21.70	2.89E+00	1.48E+00	-9.99E-01	1.38E+00
	37.36	39.70	1.48E+00		-5.13E-01	7.10E-01
	42.30	15.10	2.67E+00		5.77E-01	1.29E+00
	72.40	2.31	4.07E+00		8.64E-01	1.91E+00
PM-146	453.90	39.94	3.23E-01	3.23E-01	6.09E-02	1.45E-01
	735.90	14.01	1.14E+00		7.91E-02	5.02E-01
	747.13	13.10	1.20E+00		0.00E+00	5.28E-01
ND-147	91.11	28.90	5.50E+00	5.50E+00	4.59E-01	2.63E+00
	531.02	13.10	1.36E+01		9.97E-01	6.06E+00
PM-149	285.90	3.10	1.14E+06	1.14E+06	-8.44E+04	5.24E+05
EU-152	121.78	20.50	4.79E-01	4.79E-01	-6.34E-02	2.26E-01
	244.69	5.40	2.26E+00		-2.09E+00	1.05E+00
	344.27	19.13	6.50E-01		9.42E-02	2.96E-01
	778.89	9.20	1.76E+00		-1.21E+00	7.71E-01
	964.01	10.40	1.80E+00		-7.55E-01	7.86E-01
	1085.78	7.22	1.89E+00		2.01E-01	7.64E-01
	1112.02	9.60	1.86E+00		1.45E-01	7.93E-01
	1407.95	14.94	1.11E+00		5.27E-02	4.50E-01
GD-153	97.43	31.30	3.31E-01	3.31E-01	-1.78E-01	1.56E-01
	103.18	22.20	4.56E-01		1.92E-02	2.14E-01
EU-154	123.07	40.50	2.40E-01	2.40E-01	-2.11E-03	1.13E-01
	723.30	19.70	8.34E-01		8.87E-02	3.69E-01
	873.19	11.50	1.42E+00		-1.06E-01	6.15E-01
	996.32	10.30	1.53E+00		1.76E-02	6.46E-01
	1004.76	17.90	1.17E+00		4.53E-01	5.16E-01
	1274.45	35.50	4.06E-01		-3.10E-03	1.61E-01
EU-155	86.50	30.90	3.65E-01	3.65E-01	-1.18E-01	1.73E-01
	105.30	20.70	4.54E-01		1.32E-01	2.14E-01
EU-156	811.77	10.40	7.64E+00	7.64E+00	-2.17E+00	3.20E+00
	1153.47	7.20	1.47E+01		4.40E+00	6.15E+00
	1230.71	8.90	1.41E+01		6.47E+00	6.04E+00
HO-166M	184.41	72.60	1.95E-01	1.95E-01	1.65E-01	9.28E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	280.45		29.60	4.56E-01	1.95E-01	1.07E-01	2.12E-01
		410.94		11.10	1.03E+00		-5.65E-01	4.59E-01
		711.69		54.10	2.46E-01		-1.18E-01	1.06E-01
	TM-171	66.72		0.14	6.52E+01	6.52E+01	2.84E+01	3.04E+01
	HF-172	81.75		4.52	1.58E+00	8.98E-01	-6.31E-01	7.29E-01
		125.81		11.30	8.98E-01		-5.16E-01	4.23E-01
	LU-172	181.53		20.60	3.35E+01	1.58E+01	-1.04E+01	1.57E+01
		810.06		16.63	5.73E+01		4.25E+00	2.47E+01
		912.12		15.25	1.01E+02		3.83E+01	4.57E+01
		1093.66		62.50	1.58E+01		-1.62E+00	6.57E+00
	LU-173	100.72		5.24	1.79E+00	5.76E-01	-1.61E-01	8.41E-01
		272.11		21.20	5.76E-01		-2.02E-01	2.65E-01
	HF-175	343.40		84.00	2.19E-01	2.19E-01	-8.17E-03	9.98E-02
	LU-176	88.34		13.30	8.56E-01	1.18E-01	4.89E-01	4.08E-01
		201.83		86.00	1.36E-01		8.67E-02	6.37E-02
		306.78		94.00	1.18E-01		-1.59E-02	5.39E-02
	TA-182	67.75		41.20	2.49E-01	2.49E-01	2.19E-02	1.15E-01
		1121.30		34.90	8.10E-01		4.29E-01	3.56E-01
		1189.05		16.23	1.42E+00		1.71E-01	5.98E-01
		1221.41		26.98	9.40E-01		7.49E-02	4.03E-01
		1231.02		11.44	1.98E+00		4.74E-01	8.27E-01
	IR-192	308.46		29.68	5.71E-01	3.94E-01	7.50E-02	2.60E-01
		468.07		48.10	3.94E-01		1.00E-01	1.76E-01
	HG-203	279.19		77.30	3.09E-01	3.09E-01	-2.52E-02	1.44E-01
	BI-207	569.67		97.72	1.59E-01	1.59E-01	1.99E-02	7.15E-02
		1063.62		74.90	2.47E-01		-1.27E-02	1.06E-01
+	TL-208	583.14	*	30.22	6.42E-01	4.42E-01	4.37E-01	2.94E-01
		860.37		4.48	4.61E+00		2.72E+00	2.07E+00
		2614.66	*	35.85	4.42E-01		2.99E-01	1.69E-01
	BI-210M	262.00		45.00	2.80E-01	2.80E-01	8.20E-02	1.30E-01
		300.00		23.00	4.96E-01		3.80E-02	2.26E-01
	PB-210	46.50		4.25	7.90E+00	7.90E+00	8.73E+00	3.82E+00
	PB-211	404.84		2.90	4.52E+00	4.52E+00	-2.91E+00	2.05E+00
		831.96		2.90	5.20E+00		6.68E-01	2.24E+00
+	BI-212	727.17	*	11.80	1.22E+00	1.22E+00	5.90E-01	5.32E-01
		1620.62		2.75	7.02E+00		6.68E-01	2.88E+00
+	PB-212	238.63	*	44.60	4.42E-01	4.42E-01	2.15E-01	2.12E-01
		300.09		3.41	3.34E+00		2.56E-01	1.53E+00
	BI-214	609.31		46.30	5.35E-01	5.35E-01	4.03E-01	2.50E-01
		1120.29		15.10	1.50E+00		9.59E-01	6.63E-01
		1764.49		15.80	1.54E+00		3.44E-01	6.57E-01
		2204.22		4.98	4.05E+00		1.09E+00	1.64E+00
+	PB-214	295.21	*	19.19	9.08E-01	5.69E-01	5.29E-01	4.28E-01
		351.92	*	37.19	5.69E-01		3.95E-01	2.70E-01
	RN-219	401.80		6.50	1.92E+00	1.92E+00	-7.79E-01	8.66E-01
	RA-223	323.87		3.88	2.90E+00	2.90E+00	9.71E-01	1.31E+00
	RA-224	240.98		3.95	4.26E+00	4.26E+00	3.88E+00	2.02E+00
	RA-225	40.00		31.00	1.00E+01	1.00E+01	7.52E-01	4.81E+00
+	RA-226	186.21	*	3.28	4.97E+00	4.97E+00	3.31E+00	2.37E+00
	TH-227	50.10		8.40	2.75E+00	1.13E+00	-8.67E-01	1.32E+00
		236.00		11.50	1.13E+00		3.01E-01	5.29E-01
		256.20		6.30	1.65E+00		-8.03E-01	7.52E-01
	AC-228	338.32		11.40	1.34E+00	8.49E-01	6.07E-01	6.20E-01

Analysis Report for 1506114-19

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	911.07		27.70	8.49E-01	8.49E-01	1.43E-01	3.84E-01
		969.11		16.60	1.19E+00		9.10E-02	5.22E-01
	TH-230	48.44		16.90	1.58E+00	1.58E+00	-1.00E-01	7.60E-01
		62.85		4.60	2.47E+00		2.14E+00	1.17E+00
		67.67		0.37	2.18E+01		1.92E+00	1.01E+01
	PA-231	283.67		1.60	7.50E+00	5.62E+00	0.00E+00	3.45E+00
		302.67		2.30	5.62E+00		2.09E+00	2.59E+00
	TH-231	25.64		14.70	4.59E+01	1.22E+00	-2.25E+01	2.20E+01
		84.21		6.40	1.22E+00		8.03E-03	5.70E-01
+	PA-233	311.98	*	38.60	1.14E+00	1.14E+00	8.43E-01	5.32E-01
	PA-234	131.20		20.40	5.18E-01	5.18E-01	2.44E-01	2.45E-01
		733.99		8.80	1.91E+00		7.21E-01	8.49E-01
		946.00		12.00	1.40E+00		-5.43E-01	6.01E-01
	PA-234M	1001.03		0.92	2.09E+01	2.09E+01	4.28E+00	9.11E+00
	TH-234	63.29		3.80	2.97E+00	2.97E+00	2.57E+00	1.40E+00
	U-235	143.76		10.50	1.08E+00	1.08E+00	1.49E-01	5.11E-01
		163.35		4.70	2.36E+00		9.23E-01	1.11E+00
		205.31		4.70	2.50E+00		1.76E+00	1.17E+00
	NP-237	86.50		12.60	8.80E-01	8.80E-01	-2.85E-01	4.19E-01
	NP-239	106.10		22.70	5.68E+04	5.68E+04	-6.37E+03	2.67E+04
		228.18		10.70	1.54E+05		-2.41E+04	7.17E+04
		277.60		14.10	1.29E+05		2.83E+04	6.00E+04
	AM-241	59.54		35.90	2.91E-01	2.91E-01	7.38E-02	1.36E-01
	AM-243	74.67		66.00	1.42E-01	1.42E-01	-2.33E-01	6.67E-02
	CM-243	209.75		3.29	3.41E+00	9.30E-01	-1.27E+00	1.59E+00
		228.14		10.60	1.11E+00		-1.74E-01	5.16E-01
		277.60		14.00	9.30E-01		2.03E-01	4.31E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-19

FEEBRIS1D-14.054-056

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-14.054-056

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	114
9:	517	1008	903	328	589	1747	284	99
17:	91	83	69	94	79	73	84	85
25:	61	60	64	66	63	70	55	63
33:	77	78	60	60	58	56	68	61
41:	70	69	79	71	67	83	105	85
49:	59	69	58	61	52	46	41	38
57:	31	21	27	21	19	18	31	44
65:	16	23	15	23	14	13	30	18
73:	32	29	34	20	61	44	16	13
81:	16	17	13	23	26	23	35	32
89:	15	34	18	33	70	34	31	18
97:	23	17	16	15	18	17	15	17
105:	16	17	22	13	20	19	18	21
113:	12	17	16	23	12	11	20	21
121:	13	13	21	20	18	14	17	16
129:	23	14	17	20	23	14	22	19
137:	14	13	12	13	22	12	27	26
145:	20	17	17	18	11	11	10	12
153:	14	13	12	22	15	15	16	16
161:	15	14	18	22	14	11	8	10
169:	14	14	16	17	10	13	11	13
177:	6	15	22	12	6	14	11	24
185:	19	51	25	17	12	10	14	15
193:	13	23	16	10	12	12	11	13
201:	15	8	18	16	7	15	13	8
209:	20	13	11	8	16	8	8	14
217:	15	9	9	12	18	3	19	15
225:	20	10	11	12	16	10	8	10
233:	9	12	11	5	13	29	48	14
241:	14	27	14	7	16	9	11	13
249:	4	11	14	6	13	11	4	6
257:	5	12	9	9	10	12	16	9
265:	9	13	8	11	18	10	10	7
273:	9	8	7	10	10	12	14	9
281:	11	13	10	10	3	9	8	12
289:	8	8	8	8	10	17	24	15
297:	9	5	7	7	10	8	9	15
305:	6	7	6	4	11	9	14	10
313:	10	6	6	3	6	3	13	6
321:	7	9	8	5	3	7	12	14
329:	17	3	11	12	7	6	7	7
337:	10	18	12	11	9	8	5	4
345:	10	9	7	13	5	9	16	42
353:	18	9	5	8	10	8	9	10
361:	6	5	7	8	7	6	7	1

369:	4	8	8	5	7	9	12	9

Sample Title: FEEBRIS1D-14.054-056

Channel								
377:	10	7	7	5	6	6	6	4
385:	6	4	1	8	6	6	6	9
393:	3	4	8	11	6	6	4	4
401:	6	9	3	7	11	4	7	11
409:	6	5	5	4	3	9	4	3
417:	8	4	3	7	4	4	7	7
425:	7	10	3	7	4	12	5	8
433:	3	10	10	7	5	7	6	8
441:	5	6	8	3	2	8	3	6
449:	7	2	4	4	10	4	6	1
457:	6	3	6	9	4	6	8	3
465:	7	2	4	6	9	4	0	5
473:	4	6	4	2	5	6	9	5
481:	7	5	5	3	7	6	5	3
489:	3	6	5	7	9	5	4	4
497:	4	9	4	5	6	4	4	5
505:	5	6	8	6	12	20	51	32
513:	10	8	3	2	6	4	8	4
521:	8	4	4	4	7	1	5	5
529:	4	6	5	1	8	4	4	1
537:	5	4	4	3	0	3	6	6
545:	5	2	4	2	2	4	5	5
553:	6	5	7	6	5	3	5	6
561:	4	3	6	3	6	4	2	6
569:	7	7	5	5	4	7	7	4
577:	3	2	3	6	3	7	13	12
585:	3	5	1	4	2	4	2	4
593:	5	5	6	2	2	4	4	4
601:	5	2	4	6	7	4	4	7
609:	20	23	3	6	3	5	5	3
617:	6	7	1	3	4	2	4	1
625:	5	3	3	2	6	3	4	4
633:	4	4	5	7	2	6	2	5
641:	2	7	0	4	2	4	6	5
649:	6	3	0	3	1	4	6	5
657:	7	5	4	7	8	7	9	4
665:	6	4	2	2	1	3	2	4
673:	1	5	1	4	4	3	3	5
681:	4	3	0	5	1	4	5	5
689:	3	2	8	4	8	5	5	0
697:	8	4	0	3	6	3	8	7
705:	2	5	3	2	2	1	4	2
713:	1	1	4	5	6	3	2	3
721:	4	2	4	2	2	3	5	8
729:	3	1	3	3	2	6	2	2
737:	3	2	1	0	4	3	1	1
745:	4	1	0	4	4	3	5	7
753:	0	2	4	4	3	5	5	2
761:	6	0	0	4	2	3	3	4
769:	1	2	2	4	3	6	2	0
777:	4	4	3	3	2	1	8	2
785:	3	3	2	3	3	1	3	3
793:	2	0	2	4	2	3	1	1

801:	3	7	4	4	3	3	4	0

Sample Title: FEEBRIS1D-14.054-056

Channel								
809:	1	0	4	1	3	0	2	3
817:	4	1	3	0	2	4	2	1
825:	2	3	2	1	3	2	2	3
833:	1	0	2	2	1	1	4	3
841:	4	2	4	2	2	6	2	5
849:	2	0	4	2	1	2	0	1
857:	0	8	4	4	4	2	3	2
865:	2	0	4	1	4	5	5	1
873:	0	0	3	0	2	2	2	2
881:	4	1	3	2	3	2	3	2
889:	1	2	6	1	5	2	2	2
897:	2	2	3	2	4	2	1	2
905:	2	5	4	3	4	2	10	9
913:	1	1	4	2	3	2	1	1
921:	3	0	0	0	2	0	1	1
929:	3	1	2	1	3	5	2	4
937:	1	5	2	1	2	2	1	5
945:	2	0	1	3	1	4	3	0
953:	1	2	2	3	0	3	2	1
961:	1	4	1	4	3	2	1	3
969:	7	3	0	2	2	1	1	2
977:	2	0	0	2	1	2	4	2
985:	5	3	1	0	3	2	0	1
993:	2	1	3	0	1	1	2	2
1001:	2	3	0	6	4	2	2	0
1009:	2	1	3	0	2	1	1	3
1017:	2	2	2	0	1	0	1	2
1025:	0	2	1	2	1	1	1	4
1033:	2	0	5	0	2	1	0	2
1041:	0	1	1	1	3	5	4	1
1049:	1	4	0	1	2	2	2	6
1057:	1	2	2	2	1	3	3	2
1065:	1	1	1	3	1	1	2	0
1073:	4	5	3	2	1	1	3	2
1081:	0	3	1	0	0	0	1	1
1089:	1	0	1	0	1	1	3	2
1097:	1	3	0	4	2	3	4	3
1105:	0	2	1	1	3	2	3	1
1113:	1	1	0	0	3	1	5	5
1121:	1	3	1	2	0	1	2	1
1129:	1	1	2	0	2	3	0	2
1137:	2	1	2	1	0	0	1	2
1145:	1	2	2	3	0	1	2	1
1153:	2	1	2	0	0	0	1	0
1161:	2	1	0	2	2	2	0	2
1169:	1	1	2	3	0	1	1	1
1177:	1	1	0	0	6	2	1	3
1185:	0	0	1	0	2	2	1	4
1193:	1	0	1	2	4	2	3	1
1201:	2	3	1	1	2	2	1	1
1209:	1	1	0	1	2	2	2	1
1217:	2	1	0	0	3	3	3	2
1225:	1	2	3	1	4	2	0	0

1233:	2	0	0	0	1	5	2	0

Sample Title: FEEBRIS1D-14.054-056

Channel								
1241:	0	1	1	1	2	3	1	2
1249:	2	3	1	1	0	2	1	1
1257:	1	1	2	2	0	0	0	2
1265:	1	1	1	2	1	2	0	1
1273:	1	1	0	1	1	0	0	1
1281:	1	1	1	0	2	0	2	0
1289:	0	1	3	1	0	1	0	0
1297:	1	1	1	1	2	0	0	2
1305:	3	1	0	0	2	3	0	0
1313:	1	0	1	0	0	0	1	4
1321:	0	0	0	2	1	1	1	1
1329:	1	1	1	2	0	2	2	0
1337:	2	1	2	0	2	2	0	0
1345:	0	1	1	1	0	1	2	0
1353:	1	0	3	0	0	1	0	1
1361:	2	0	1	1	0	0	3	0
1369:	2	0	2	0	0	0	1	2
1377:	0	3	1	0	0	2	2	1
1385:	2	2	1	0	2	1	0	0
1393:	1	0	2	0	1	1	0	0
1401:	1	0	1	1	1	0	0	2
1409:	1	1	1	1	0	2	2	2
1417:	0	1	1	1	1	0	0	0
1425:	1	0	1	0	1	1	2	2
1433:	0	2	1	2	2	0	1	0
1441:	1	0	1	0	2	1	4	0
1449:	1	2	2	0	1	0	1	2
1457:	2	1	2	5	7	1	1	0
1465:	0	0	0	0	0	0	0	0
1473:	2	3	1	1	0	0	1	0
1481:	0	0	0	0	0	0	2	1
1489:	0	0	0	1	3	0	3	0
1497:	4	3	1	0	3	0	1	1
1505:	1	0	0	3	0	2	0	0
1513:	0	0	1	2	0	0	0	0
1521:	2	2	1	1	1	0	1	0
1529:	1	2	0	2	0	0	2	0
1537:	0	1	1	0	1	0	0	0
1545:	0	0	1	0	0	0	2	2
1553:	1	1	1	1	0	0	0	2
1561:	0	1	0	1	0	0	2	0
1569:	1	1	1	2	3	1	3	0
1577:	0	2	3	0	1	1	2	0
1585:	0	1	2	0	1	0	0	2
1593:	1	2	0	1	1	2	0	1
1601:	2	2	1	0	3	2	0	1
1609:	1	0	1	0	0	2	1	0
1617:	1	3	0	1	0	0	1	1
1625:	0	0	0	0	0	0	0	0
1633:	0	1	0	0	1	0	0	0
1641:	0	0	1	0	0	1	0	0
1649:	0	0	0	0	1	0	1	0
1657:	0	0	0	1	0	1	0	1

1665:	0	2	0	0	0	1	0	1

Sample Title: FEEBRIS1D-14.054-056

Channel								
1673:	1	1	0	1	1	0	0	0
1681:	2	0	0	0	2	2	0	0
1689:	0	2	0	0	0	2	1	1
1697:	1	1	0	0	0	2	0	0
1705:	2	0	0	3	0	0	0	3
1713:	0	0	0	2	1	0	0	0
1721:	0	0	1	1	0	1	0	1
1729:	1	0	0	0	0	2	0	0
1737:	2	3	2	1	0	0	0	1
1745:	0	2	1	1	0	2	2	1
1753:	0	1	0	0	1	0	0	0
1761:	0	0	2	4	4	1	0	0
1769:	1	2	0	2	0	0	0	1
1777:	1	0	2	0	0	0	0	1
1785:	0	0	0	1	2	1	0	0
1793:	0	3	0	0	0	1	1	1
1801:	0	0	0	1	1	0	0	0
1809:	0	0	1	1	0	0	0	0
1817:	1	1	0	0	0	0	1	1
1825:	2	1	0	0	0	0	0	0
1833:	0	0	2	0	1	0	0	0
1841:	0	0	1	0	1	3	1	1
1849:	1	0	0	0	0	1	1	0
1857:	0	0	0	0	0	0	1	1
1865:	0	1	0	1	0	0	1	0
1873:	1	0	0	0	1	1	1	1
1881:	0	0	0	1	0	1	0	0
1889:	0	0	0	3	0	0	0	0
1897:	0	1	1	0	1	1	1	1
1905:	2	0	0	0	1	0	0	0
1913:	1	0	0	1	1	1	3	0
1921:	0	1	0	2	1	0	0	0
1929:	0	1	0	0	0	0	0	2
1937:	1	1	1	1	0	1	1	0
1945:	0	1	0	1	0	0	1	2
1953:	0	1	0	0	0	0	0	2
1961:	0	1	1	1	1	0	0	0
1969:	1	4	0	0	0	0	0	0
1977:	0	0	0	0	2	0	0	0
1985:	2	0	0	0	1	0	0	1
1993:	1	1	0	0	2	1	0	0
2001:	1	0	0	0	0	0	0	0
2009:	0	0	0	2	1	1	1	0
2017:	0	0	1	1	0	2	0	1
2025:	0	0	0	0	0	0	0	0
2033:	0	1	1	0	0	1	1	0
2041:	0	1	0	0	0	0	0	0
2049:	0	0	0	0	0	0	1	0
2057:	0	2	0	1	0	2	1	0
2065:	0	0	2	0	0	0	1	0
2073:	1	0	1	1	0	0	0	0
2081:	2	0	0	1	1	3	2	0
2089:	0	1	1	0	1	0	1	0

2097:	2	2	0	1	0	0	0	0

Sample Title: FEEBRIS1D-14.054-056

Channel								
2105:	1	0	0	2	0	0	1	0
2113:	1	0	0	1	1	1	0	0
2121:	0	0	1	0	0	0	0	1
2129:	1	1	1	0	0	0	0	1
2137:	1	1	2	2	0	0	0	1
2145:	0	0	0	0	2	2	1	0
2153:	1	0	1	0	0	0	0	0
2161:	2	0	0	0	0	1	1	0
2169:	0	1	0	0	1	1	0	0
2177:	1	0	0	0	0	0	0	1
2185:	0	1	0	0	1	0	0	1
2193:	0	1	1	1	0	1	1	0
2201:	1	0	2	2	1	0	0	0
2209:	0	0	0	3	0	0	1	1
2217:	1	0	0	0	0	1	0	0
2225:	1	1	1	0	0	1	1	1
2233:	0	1	1	1	1	0	1	0
2241:	1	1	0	3	0	0	0	0
2249:	0	0	0	1	0	0	1	0
2257:	1	0	1	1	1	0	2	0
2265:	0	0	1	1	0	0	0	0
2273:	0	0	1	0	0	0	0	0
2281:	0	1	0	0	0	1	1	0
2289:	1	1	0	0	0	0	0	0
2297:	1	2	0	1	0	0	0	0
2305:	1	0	1	0	0	1	0	1
2313:	0	2	0	0	0	0	0	0
2321:	0	1	0	0	0	1	1	0
2329:	1	0	1	3	0	0	0	0
2337:	0	0	2	1	0	0	1	0
2345:	1	0	0	0	0	1	0	0
2353:	0	1	0	1	0	3	1	0
2361:	0	0	0	0	0	0	0	0
2369:	1	0	0	0	1	1	0	1
2377:	0	0	0	0	0	0	0	0
2385:	0	0	0	1	1	0	0	0
2393:	1	0	0	0	0	1	0	0
2401:	0	1	0	0	0	0	0	0
2409:	1	1	0	1	1	1	0	1
2417:	0	1	1	0	0	0	0	0
2425:	0	1	0	1	0	0	0	0
2433:	0	1	2	0	0	0	0	0
2441:	0	0	0	0	0	0	2	0
2449:	1	0	0	0	0	0	1	0
2457:	0	0	1	0	0	0	1	0
2465:	2	2	0	0	1	1	1	1
2473:	0	0	0	0	1	1	1	0
2481:	0	0	1	0	0	0	1	0
2489:	0	1	0	1	0	0	0	1
2497:	0	1	0	0	1	1	0	0
2505:	0	0	0	0	0	0	0	0
2513:	0	0	1	0	0	0	0	1
2521:	0	0	0	0	0	1	0	0

2529:	0	0	1	1	0	0	0	1

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Channel								
2537:	1	0	0	0	0	0	1	1
2545:	0	1	0	1	0	0	0	0
2553:	0	0	0	1	0	0	0	0
2561:	1	1	1	0	0	0	0	0
2569:	0	0	0	1	0	0	0	0
2577:	0	1	0	1	0	0	0	1
2585:	0	2	0	0	0	0	0	0
2593:	0	0	2	1	0	0	1	0
2601:	1	0	0	0	2	0	0	0
2609:	0	1	0	0	2	4	1	3
2617:	2	1	0	0	0	0	0	0
2625:	0	0	0	1	0	0	0	0
2633:	0	0	0	0	1	0	0	0
2641:	0	0	1	0	0	1	2	0
2649:	0	0	0	0	0	0	1	0
2657:	0	0	0	1	0	0	0	3
2665:	0	0	0	0	0	0	0	0
2673:	1	0	0	1	0	0	0	0
2681:	0	0	0	1	0	0	1	0
2689:	0	1	0	0	0	0	0	0
2697:	0	1	0	1	0	1	0	0
2705:	1	0	0	1	1	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	1	0	0	0	0	1	0	0
2729:	1	0	1	1	0	0	0	1
2737:	1	0	0	0	0	1	1	0
2745:	0	0	2	0	0	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	1	0
2769:	0	0	1	0	0	1	0	1
2777:	0	0	0	0	0	0	0	1
2785:	0	0	0	0	1	1	0	1
2793:	0	0	0	0	0	0	1	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	1	0
2817:	0	0	0	0	1	1	0	1
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	1	0
2857:	1	0	0	0	1	0	1	0
2865:	0	0	0	0	0	1	0	1
2873:	0	0	0	0	1	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	1	0
2905:	0	0	0	0	0	0	1	0
2913:	0	0	1	1	0	1	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	1	0	0
2945:	0	2	0	0	0	0	0	2
2953:	0	0	1	0	0	0	1	0

2961:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-14.054-056

Channel								
2969:	1	0	0	1	1	0	0	0
2977:	0	1	0	0	0	0	1	0
2985:	0	0	1	0	0	0	0	0
2993:	0	0	0	0	0	0	1	0
3001:	0	0	0	0	1	0	0	0
3009:	0	0	0	0	0	0	0	1
3017:	0	0	0	0	0	0	0	0
3025:	0	0	1	0	2	0	0	0
3033:	1	0	1	0	0	0	0	0
3041:	1	0	0	0	0	1	0	0
3049:	1	0	0	0	0	0	1	0
3057:	0	0	1	0	0	0	0	0
3065:	0	0	0	0	0	0	1	0
3073:	0	0	0	0	0	0	0	0
3081:	1	0	0	0	0	0	0	0
3089:	0	0	1	0	0	1	0	1
3097:	0	0	0	0	0	0	0	0
3105:	0	0	1	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	1	0	0	1	0	0	0
3129:	0	0	1	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	1	1	0	0
3161:	0	1	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	1	0	0	1	0
3185:	0	0	0	0	0	0	1	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	1	0
3209:	0	0	0	1	0	0	0	0
3217:	0	0	1	0	0	0	0	0
3225:	0	0	0	0	1	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	1	0	0	0	0	1	0
3249:	0	0	0	0	1	0	0	1
3257:	0	0	0	0	0	0	0	0
3265:	0	1	0	0	0	0	0	0
3273:	0	0	0	0	1	1	1	0
3281:	0	0	0	0	0	0	0	0
3289:	1	0	2	2	0	0	0	0
3297:	0	0	1	1	1	1	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	1	0	1	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	1	0	0	0
3345:	0	1	0	0	0	0	0	0
3353:	0	0	3	0	0	0	1	1
3361:	0	0	0	1	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	1	0	0	0	1	1

3393:	0	2	0	0	0	0	0	0

Sample Title: FEEBRIS1D-14.054-056

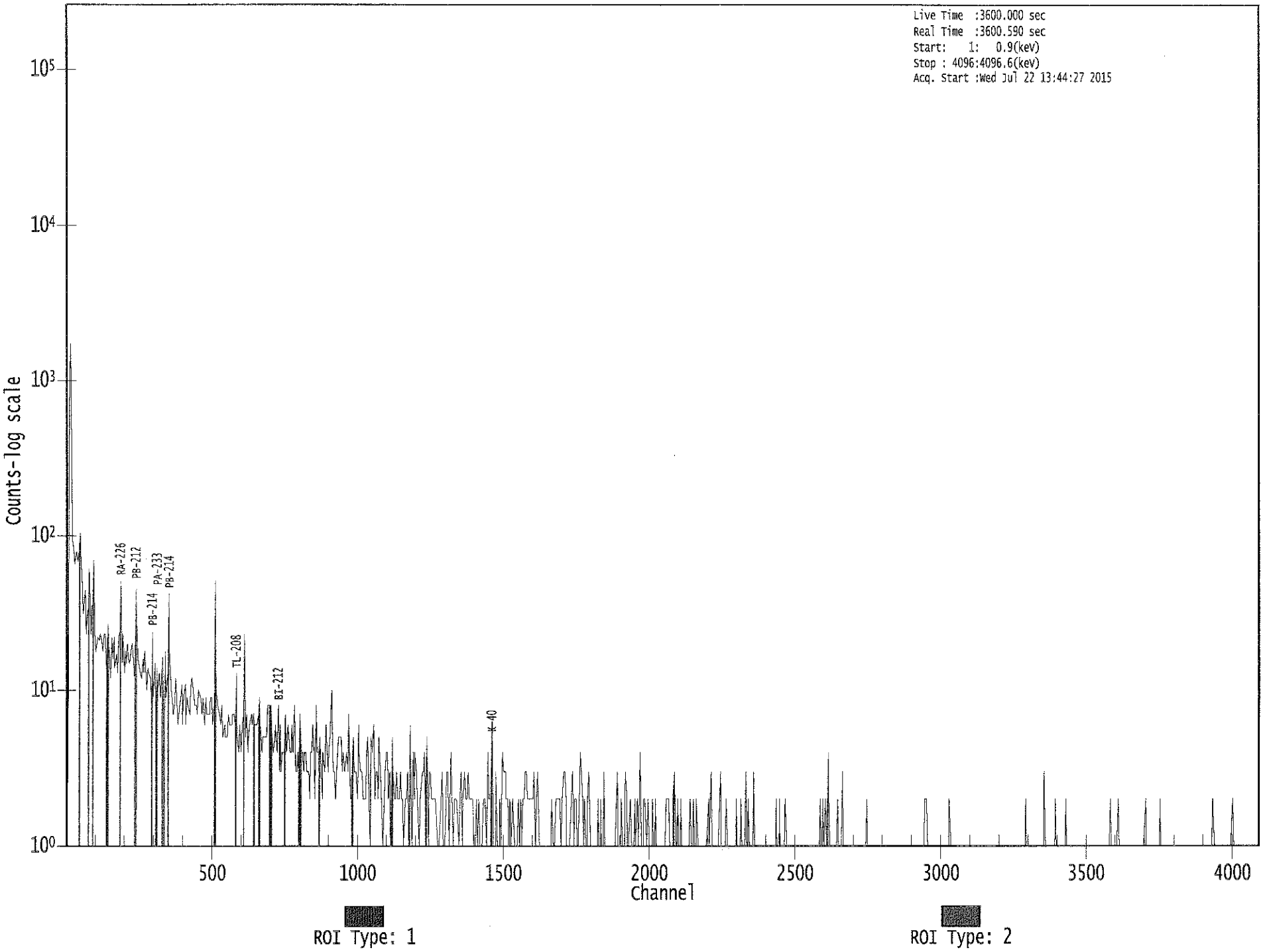
Channel								
3401:	0	0	0	1	0	0	0	0
3409:	0	0	0	0	0	0	0	1
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	2	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	1	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	1	1	0
3465:	0	1	0	0	0	0	0	0
3473:	0	1	0	0	0	0	0	0
3481:	0	0	1	0	0	0	0	0
3489:	1	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	1
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	0	0	0	0	0
3521:	1	0	0	0	0	0	0	1
3529:	0	0	0	0	0	0	1	0
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	0	0	0	0	0
3553:	1	0	1	0	1	0	0	0
3561:	0	0	0	0	0	0	1	0
3569:	0	0	0	0	0	0	1	0
3577:	0	0	1	0	0	0	0	2
3585:	0	0	0	0	0	0	0	0
3593:	0	1	0	0	0	0	0	0
3601:	0	0	0	1	1	0	0	0
3609:	0	2	1	0	0	0	0	0
3617:	0	1	0	1	1	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	1	0	0	1
3641:	1	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	1	0	0	0	0	1	0
3673:	0	0	1	0	0	1	0	0
3681:	0	0	0	0	0	0	0	1
3689:	0	0	0	0	0	0	1	1
3697:	0	0	1	0	0	0	0	2
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	1	0	0
3729:	1	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	2
3753:	0	1	1	0	0	0	0	0
3761:	0	1	0	0	0	0	0	1
3769:	0	0	0	0	0	0	0	0
3777:	0	1	1	0	1	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	1	0	0	0	0
3809:	0	0	0	1	0	0	0	0
3817:	0	0	0	0	0	0	1	0

3825:	0	0	0	1	0	0	0	0

Sample Title: FEEBRIS1D-14.054-056

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	1	0	0	1	0	0	0
3849:	0	0	0	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	1
3873:	0	0	0	1	0	0	1	0
3881:	0	0	1	0	1	0	0	1
3889:	0	1	1	0	0	1	0	0
3897:	0	0	0	0	0	0	0	0
3905:	1	0	0	0	1	0	1	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	1	0	0	2	0	0	0
3937:	0	0	1	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	1	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	1	0	1	0	0	0	0
3977:	0	1	1	1	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	1	0	1	0	0	0
4001:	0	2	0	1	1	0	0	0
4009:	1	0	0	0	0	0	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	0	1	0	1	0	0
4033:	1	0	1	0	0	0	0	0
4041:	0	1	0	0	0	0	0	1
4049:	0	0	0	0	0	1	0	0
4057:	0	0	0	0	1	0	0	0
4065:	0	1	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025023.CNF



Apex-Gamma

Analysis Report for 1506114-20
FEEBRIS1D-09.088-089

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506114-20
Sample Description	: FEEBRIS1D-09.088-089
Sample Type	: SOIL
Sample Size	: 3.316E+02 grams
Facility	: Countroom
Sample Taken On	: 6/11/2015 7:45:38AM
Acquisition Started	: 7/22/2015 1:44:34PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3618.1 seconds
Dead Time	: 0.50 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25024

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 7/23/15

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 2:45:03PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.75	27.99	0.0000	0.00
2	46.81	47.04	0.0000	0.00
3	67.85	68.07	0.0000	0.00
4	76.51	76.72	0.0000	0.00
5	80.98	81.19	0.0000	0.00
6	83.79	84.00	0.0000	0.00
7	87.78	87.99	0.0000	0.00
8	112.79	112.99	0.0000	0.00
9	143.88	144.06	0.0000	0.00
10	154.22	154.39	0.0000	0.00
11	186.28	186.44	0.0000	0.00
12	209.94	210.09	0.0000	0.00
13	236.02	236.15	0.0000	0.00
14	238.77	238.90	0.0000	0.00
15	242.14	242.27	0.0000	0.00
16	256.88	257.00	0.0000	0.00
17	270.36	270.47	0.0000	0.00
18	285.09	285.19	0.0000	0.00
19	295.41	295.51	0.0000	0.00
20	300.23	300.33	0.0000	0.00
21	303.49	303.59	0.0000	0.00
22	324.28	324.37	0.0000	0.00
23	338.55	338.63	0.0000	0.00
24	352.04	352.11	0.0000	0.00
25	381.28	381.34	0.0000	0.00
26	388.94	389.00	0.0000	0.00
27	401.88	401.93	0.0000	0.00
28	405.14	405.19	0.0000	0.00
29	420.60	420.64	0.0000	0.00
30	426.47	426.51	0.0000	0.00
31	511.83	511.82	0.0000	0.00
32	532.15	532.13	0.0000	0.00
33	581.63	581.59	0.0000	0.00
34	609.48	609.42	0.0000	0.00
35	664.88	664.80	0.0000	0.00
36	703.86	703.76	0.0000	0.00
37	768.63	768.50	0.0000	0.00
38	806.36	806.21	0.0000	0.00
39	832.27	832.11	0.0000	0.00
40	911.10	910.91	0.0000	0.00
41	934.41	934.20	0.0000	0.00
42	946.63	946.42	0.0000	0.00

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	969.99	969.77	0.0000	0.00
44	1002.04	1001.81	0.0000	0.00
45	1072.50	1072.24	0.0000	0.00
46	1078.45	1078.18	0.0000	0.00
47	1120.27	1119.98	0.0000	0.00
48	1135.58	1135.29	0.0000	0.00
49	1151.59	1151.29	0.0000	0.00
50	1155.00	1154.70	0.0000	0.00
51	1238.36	1238.03	0.0000	0.00
52	1245.11	1244.77	0.0000	0.00
53	1279.61	1279.26	0.0000	0.00
54	1343.59	1343.21	0.0000	0.00
55	1377.59	1377.20	0.0000	0.00
56	1384.87	1384.48	0.0000	0.00
57	1401.96	1401.56	0.0000	0.00
58	1408.28	1407.88	0.0000	0.00
59	1461.41	1460.99	0.0000	0.00
60	1508.53	1508.09	0.0000	0.00
61	1582.60	1582.13	0.0000	0.00
62	1660.30	1659.81	0.0000	0.00
63	1729.22	1728.70	0.0000	0.00
64	1764.56	1764.03	0.0000	0.00
65	1847.51	1846.95	0.0000	0.00
66	1914.57	1913.99	0.0000	0.00
67	1938.96	1938.37	0.0000	0.00
68	2036.09	2035.47	0.0000	0.00
69	2118.44	2117.79	0.0000	0.00
70	2178.26	2177.60	0.0000	0.00
71	2204.16	2203.49	0.0000	0.00
72	2447.60	2446.86	0.0000	0.00
73	2613.96	2613.19	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 2:45:03PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	27.75	26 -	30	27.99	1.06E+02	89.93	1.70E+03	1.12
	2	46.81	43 -	52	47.04	9.07E+02	184.65	4.37E+03	1.39
	3	67.85	65 -	71	68.07	1.45E+03	183.60	5.04E+03	1.36
M	4	76.51	72 -	97	76.72	3.13E+03	234.55	6.14E+03	3.23
m	5	80.98	72 -	97	81.19	5.81E+02	155.20	3.38E+03	1.85
m	6	83.79	72 -	97	84.00	1.13E+03	151.35	3.22E+03	2.00
m	7	87.78	72 -	97	87.99	1.03E+03	199.22	4.55E+03	3.15
	8	112.79	110 -	115	112.99	1.00E+02	104.84	2.11E+03	2.35
	9	143.88	140 -	149	144.06	4.86E+02	163.01	3.51E+03	2.10
	10	154.22	149 -	159	154.39	5.78E+02	169.55	3.52E+03	2.36
	11	186.28	182 -	191	186.44	7.43E+02	156.81	3.08E+03	2.00
	12	209.94	207 -	213	210.09	1.21E+02	98.73	1.69E+03	2.21
M	13	236.02	231 -	245	236.15	3.94E+02	87.73	1.22E+03	1.94
m	14	238.77	231 -	245	238.90	2.23E+02	101.13	1.37E+03	2.29
m	15	242.14	231 -	245	242.27	9.98E+02	97.82	1.06E+03	1.84
	16	256.88	252 -	261	257.00	2.84E+02	115.24	1.71E+03	1.91
	17	270.36	266 -	275	270.47	5.72E+02	119.04	1.70E+03	2.88
	18	285.09	281 -	289	285.19	1.53E+02	94.78	1.28E+03	3.72
M	19	295.41	292 -	306	295.51	1.96E+03	104.13	6.69E+02	1.56
m	20	300.23	292 -	306	300.33	1.18E+02	77.81	9.12E+02	2.36
m	21	303.49	292 -	306	303.59	1.24E+02	67.13	7.77E+02	2.00
	22	324.28	322 -	327	324.37	8.94E+01	62.41	7.11E+02	2.67
	23	338.55	336 -	341	338.63	7.51E+01	60.97	6.78E+02	1.92
	24	352.04	347 -	356	352.11	3.49E+03	147.70	1.12E+03	1.67
	25	381.28	379 -	384	381.34	5.55E+01	50.60	4.67E+02	3.12
	26	388.94	385 -	395	389.00	1.11E+02	84.23	8.90E+02	3.97
M	27	401.88	399 -	409	401.93	1.39E+02	58.02	5.84E+02	2.04
m	28	405.14	399 -	409	405.19	7.54E+01	59.75	5.80E+02	2.05
	29	420.60	417 -	423	420.64	5.01E+01	58.22	5.66E+02	2.55
	30	426.47	424 -	430	426.51	5.70E+01	55.61	5.26E+02	3.12
	31	511.83	507 -	517	511.82	1.50E+02	67.26	5.10E+02	2.96
	32	532.15	529 -	536	532.13	6.31E+01	44.27	2.86E+02	5.00
	33	581.63	577 -	586	581.59	6.29E+01	59.27	4.68E+02	4.43
	34	609.48	604 -	614	609.42	2.31E+03	112.31	4.50E+02	2.06
	35	664.88	659 -	669	664.80	1.08E+02	54.27	3.33E+02	2.25
	36	703.86	701 -	707	703.76	3.11E+01	35.36	2.08E+02	2.80
	37	768.63	764 -	773	768.50	2.11E+02	54.26	2.99E+02	2.08
m	38	806.36	791 -	811	806.21	7.35E+01	31.97	1.38E+02	2.33
	39	832.27	828 -	836	832.11	5.38E+01	40.65	2.22E+02	2.37
	40	911.10	907 -	914	910.91	6.10E+01	38.63	2.08E+02	2.78

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	934.41	929 -	938	934.20	8.59E+01	47.27	2.70E+02	1.51
	42	946.63	944 -	950	946.42	2.39E+01	28.80	1.34E+02	3.28
	43	969.99	966 -	975	969.77	4.29E+01	39.91	1.98E+02	6.60
	44	1002.04	997 -	1006	1001.81	3.90E+01	35.72	1.60E+02	4.84
	45	1072.50	1070 -	1076	1072.24	2.12E+01	26.07	1.08E+02	2.36
	46	1078.45	1076 -	1081	1078.18	1.67E+01	21.10	7.65E+01	2.40
	47	1120.27	1114 -	1125	1119.98	4.94E+02	58.03	1.74E+02	1.95
	48	1135.58	1131 -	1141	1135.29	2.79E+01	34.45	1.44E+02	5.54
M	49	1151.59	1150 -	1170	1151.29	1.40E+01	14.14	5.05E+01	2.43
m	50	1155.00	1150 -	1170	1154.70	4.42E+01	28.57	1.15E+02	2.37
M	51	1238.36	1233 -	1247	1238.03	1.77E+02	36.12	1.24E+02	2.37
m	52	1245.11	1233 -	1247	1244.77	1.77E+01	22.05	8.14E+01	2.81
	53	1279.61	1274 -	1284	1279.26	3.40E+01	32.74	1.20E+02	1.28
	54	1343.59	1339 -	1346	1343.21	1.96E+01	22.98	7.28E+01	1.45
	55	1377.59	1372 -	1382	1377.20	9.40E+01	39.89	1.54E+02	2.50
	56	1384.87	1382 -	1388	1384.48	2.06E+01	23.02	8.28E+01	3.10
M	57	1401.96	1394 -	1410	1401.56	4.10E+01	30.35	1.09E+02	3.18
m	58	1408.28	1394 -	1410	1407.88	7.30E+01	24.10	5.76E+01	2.12
	59	1461.41	1456 -	1466	1460.99	1.04E+02	36.24	1.15E+02	2.13
	60	1508.53	1502 -	1513	1508.09	8.83E+01	32.74	8.94E+01	2.34
	61	1582.60	1579 -	1585	1582.13	3.65E+01	18.40	3.50E+01	4.04
	62	1660.30	1654 -	1665	1659.81	4.69E+01	20.69	3.02E+01	2.06
	63	1729.22	1723 -	1733	1728.70	8.88E+01	24.53	3.25E+01	2.98
	64	1764.56	1759 -	1768	1764.03	3.41E+02	39.67	3.00E+01	2.60
	65	1847.51	1842 -	1851	1846.95	4.31E+01	19.44	2.78E+01	1.72
	66	1914.57	1910 -	1918	1913.99	1.12E+01	11.52	1.37E+01	2.62
	67	1938.96	1933 -	1943	1938.37	2.12E+01	16.83	2.36E+01	6.81
	68	2036.09	2033 -	2038	2035.47	7.86E+00	8.43	6.27E+00	5.49
	69	2118.44	2114 -	2121	2117.79	3.06E+01	13.86	1.08E+01	2.87
	70	2178.26	2173 -	2181	2177.60	1.00E+01	6.32	0.00E+00	3.00
	71	2204.16	2198 -	2207	2203.49	9.30E+01	19.29	0.00E+00	2.47
	72	2447.60	2441 -	2449	2446.86	1.62E+01	9.81	5.68E+00	2.14
	73	2613.96	2608 -	2616	2613.19	1.61E+01	9.60	3.78E+00	3.80

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 2:45:03PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	27.75	26 -	30	1.06E+02	89.93	1.70E+03	7.20E+01
	2	46.81	43 -	52	9.07E+02	184.65	4.37E+03	7.62E+01
	3	67.85	65 -	71	1.45E+03	183.60	5.04E+03	1.37E+02
M	4	76.51	72 -	97	3.13E+03	234.55	6.14E+03	1.29E+02
m	5	80.98	72 -	97	5.81E+02	155.20	3.38E+03	9.56E+01
m	6	83.79	72 -	97	1.13E+03	151.35	3.22E+03	9.32E+01
m	7	87.78	72 -	97	1.03E+03	199.22	4.55E+03	1.11E+02
	8	112.79	110 -	115	1.00E+02	104.84	2.11E+03	8.46E+01
	9	143.88	140 -	149	4.86E+02	163.01	3.51E+03	1.29E+02
	10	154.22	149 -	159	5.78E+02	169.55	3.52E+03	1.34E+02
	11	186.28	182 -	191	7.43E+02	156.81	3.08E+03	1.21E+02
	12	209.94	207 -	213	1.21E+02	98.73	1.69E+03	7.91E+01
M	13	236.02	231 -	245	3.94E+02	87.73	1.22E+03	5.75E+01
m	14	238.77	231 -	245	2.23E+02	101.13	1.37E+03	6.09E+01
m	15	242.14	231 -	245	9.98E+02	97.82	1.06E+03	5.35E+01
	16	256.88	252 -	261	2.84E+02	115.24	1.71E+03	9.06E+01
	17	270.36	266 -	275	5.72E+02	119.04	1.70E+03	8.96E+01
	18	285.09	281 -	289	1.53E+02	94.78	1.28E+03	7.52E+01
M	19	295.41	292 -	306	1.96E+03	104.13	6.69E+02	4.25E+01
m	20	300.23	292 -	306	1.18E+02	77.81	9.12E+02	4.97E+01
m	21	303.49	292 -	306	1.24E+02	67.13	7.77E+02	4.58E+01
	22	324.28	322 -	327	8.94E+01	62.41	7.11E+02	4.89E+01
	23	338.55	336 -	341	7.51E+01	60.97	6.78E+02	4.80E+01
	24	352.04	347 -	356	3.49E+03	147.70	1.12E+03	7.28E+01
	25	381.28	379 -	384	5.55E+01	50.60	4.67E+02	3.97E+01
	26	388.94	385 -	395	1.11E+02	84.23	8.90E+02	6.70E+01
M	27	401.88	399 -	409	1.39E+02	58.02	5.84E+02	3.97E+01
m	28	405.14	399 -	409	7.54E+01	59.75	5.80E+02	3.96E+01
	29	420.60	417 -	423	5.01E+01	58.22	5.66E+02	4.64E+01
	30	426.47	424 -	430	5.70E+01	55.61	5.26E+02	4.40E+01
	31	511.83	507 -	517	1.50E+02	67.26	5.10E+02	5.15E+01
	32	532.15	529 -	536	6.31E+01	44.27	2.86E+02	3.40E+01
	33	581.63	577 -	586	6.29E+01	59.27	4.68E+02	4.69E+01
	34	609.48	604 -	614	2.31E+03	112.31	4.50E+02	4.78E+01
	35	664.88	659 -	669	1.08E+02	54.27	3.33E+02	4.12E+01
	36	703.86	701 -	707	3.11E+01	35.36	2.08E+02	2.76E+01
	37	768.63	764 -	773	2.11E+02	54.26	2.99E+02	3.77E+01
m	38	806.36	791 -	811	7.35E+01	31.97	1.38E+02	1.93E+01
	39	832.27	828 -	836	5.38E+01	40.65	2.22E+02	3.12E+01
	40	911.10	907 -	914	6.10E+01	38.63	2.08E+02	2.90E+01
	41	934.41	929 -	938	8.59E+01	47.27	2.70E+02	3.57E+01
	42	946.63	944 -	950	2.39E+01	28.80	1.34E+02	2.23E+01
	43	969.99	966 -	975	4.29E+01	39.91	1.98E+02	1.54E+01
	44	1002.04	997 -	1006	3.90E+01	35.72	1.60E+02	2.75E+01
	45	1072.50	1070 -	1076	2.12E+01	26.07	1.08E+02	2.00E+01
	46	1078.45	1076 -	1081	1.67E+01	21.10	7.65E+01	1.60E+01
	47	1120.27	1114 -	1125	4.94E+02	58.03	1.74E+02	3.07E+01
	48	1135.58	1131 -	1141	2.79E+01	34.45	1.44E+02	2.70E+01
M	49	1151.59	1150 -	1170	1.40E+01	14.14	5.05E+01	1.17E+01
m	50	1155.00	1150 -	1170	4.42E+01	28.57	1.15E+02	1.76E+01
M	51	1238.36	1233 -	1247	1.77E+02	36.12	1.24E+02	1.83E+01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	52	1245.11	1233 -	1247	1.77E+01	22.05	8.14E+01	1.48E+01
	53	1279.61	1274 -	1284	3.40E+01	32.74	1.20E+02	2.51E+01
	54	1343.59	1339 -	1346	1.96E+01	22.98	7.28E+01	1.74E+01
	55	1377.59	1372 -	1382	9.40E+01	39.89	1.54E+02	3.52E+01
	56	1384.87	1382 -	1388	2.06E+01	23.02	8.28E+01	1.74E+01
M	57	1401.96	1394 -	1410	4.10E+01	30.35	1.09E+02	1.72E+01
m	58	1408.28	1394 -	1410	7.30E+01	24.10	5.76E+01	1.25E+01
	59	1461.41	1456 -	1466	1.04E+02	36.24	1.15E+02	2.46E+01
	60	1508.53	1502 -	1513	8.83E+01	32.74	8.94E+01	2.20E+01
	61	1582.60	1579 -	1585	3.65E+01	18.40	3.50E+01	1.14E+01
	62	1660.30	1654 -	1665	4.69E+01	20.69	3.02E+01	1.27E+01
	63	1729.22	1723 -	1733	8.88E+01	24.53	3.25E+01	1.29E+01
	64	1764.56	1759 -	1768	3.41E+02	39.67	3.00E+01	1.19E+01
	65	1847.51	1842 -	1851	4.31E+01	19.44	2.78E+01	1.18E+01
	66	1914.57	1910 -	1918	1.12E+01	11.52	1.37E+01	7.71E+00
	67	1938.96	1933 -	1943	2.12E+01	16.83	2.36E+01	1.16E+01
	68	2036.09	2033 -	2038	7.86E+00	8.43	6.27E+00	5.17E+00
	69	2118.44	2114 -	2121	3.06E+01	13.86	1.08E+01	6.86E+00
	70	2178.26	2173 -	2181	1.00E+01	6.32	0.00E+00	0.00E+00
	71	2204.16	2198 -	2207	9.30E+01	19.29	0.00E+00	0.00E+00
	72	2447.60	2441 -	2449	1.62E+01	9.81	5.68E+00	4.62E+00
	73	2613.96	2608 -	2616	1.61E+01	9.60	3.78E+00	4.33E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 2:45:03PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	27.75	26 -	30	27.99	1.06E+02	89.93	1.70E+03	.....
2	46.81	43 -	52	47.04	9.07E+02	184.65	4.37E+03	PB-210
3	67.85	65 -	71	68.07	1.45E+03	183.60	5.04E+03	TI-44

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									TA-182
									TH-230
M	4	76.51	72 -	97	76.72	3.13E+03	234.55	6.14E+03	.....
m	5	80.98	72 -	97	81.19	5.81E+02	155.20	3.38E+03	BA-133
									HF-172
m	6	83.79	72 -	97	84.00	1.13E+03	151.35	3.22E+03	TH-231
m	7	87.78	72 -	97	87.99	1.03E+03	199.22	4.55E+03	SN-126
									CD-109
									LU-176
	8	112.79	110 -	115	112.99	1.00E+02	104.84	2.11E+03	.....
	9	143.88	140 -	149	144.06	4.86E+02	163.01	3.51E+03	U-235
	10	154.22	149 -	159	154.39	5.78E+02	169.55	3.52E+03	CS-136
	11	186.28	182 -	191	186.44	7.43E+02	156.81	3.08E+03	RA-226
	12	209.94	207 -	213	210.09	1.21E+02	98.73	1.69E+03	CM-243
									GA-67
M	13	236.02	231 -	245	236.15	3.94E+02	87.73	1.22E+03	TH-227
									NB-95M
m	14	238.77	231 -	245	238.90	2.23E+02	101.13	1.37E+03	PB-212
m	15	242.14	231 -	245	242.27	9.98E+02	97.82	1.06E+03	.....
	16	256.88	252 -	261	257.00	2.84E+02	115.24	1.71E+03	TH-227
	17	270.36	266 -	275	270.47	5.72E+02	119.04	1.70E+03	.....
	18	285.09	281 -	289	285.19	1.53E+02	94.78	1.28E+03	I-131
									PM-149
M	19	295.41	292 -	306	295.51	1.96E+03	104.13	6.69E+02	PB-214
m	20	300.23	292 -	306	300.33	1.18E+02	77.81	9.12E+02	GA-67
									PB-212
									BI-210M
m	21	303.49	292 -	306	303.59	1.24E+02	67.13	7.77E+02	BA-133
									PA-231
	22	324.28	322 -	327	324.37	8.94E+01	62.41	7.11E+02	RA-223
	23	338.55	336 -	341	338.63	7.51E+01	60.97	6.78E+02	AC-228
	24	352.04	347 -	356	352.11	3.49E+03	147.70	1.12E+03	PB-214
	25	381.28	379 -	384	381.34	5.55E+01	50.60	4.67E+02	.....
	26	388.94	385 -	395	389.00	1.11E+02	84.23	8.90E+02	.....
M	27	401.88	399 -	409	401.93	1.39E+02	58.02	5.84E+02	RN-219
m	28	405.14	399 -	409	405.19	7.54E+01	59.75	5.80E+02	PB-211
	29	420.60	417 -	423	420.64	5.01E+01	58.22	5.66E+02	.....
	30	426.47	424 -	430	426.51	5.70E+01	55.61	5.26E+02	.....
	31	511.83	507 -	517	511.82	1.50E+02	67.26	5.10E+02	.....
	32	532.15	529 -	536	532.13	6.31E+01	44.27	2.86E+02	.....
	33	581.63	577 -	586	581.59	6.29E+01	59.27	4.68E+02	.....
	34	609.48	604 -	614	609.42	2.31E+03	112.31	4.50E+02	BI-214
	35	664.88	659 -	669	664.80	1.08E+02	54.27	3.33E+02	CE-143
	36	703.86	701 -	707	703.76	3.11E+01	35.36	2.08E+02	.....
	37	768.63	764 -	773	768.50	2.11E+02	54.26	2.99E+02	.....
m	38	806.36	791 -	811	806.21	7.35E+01	31.97	1.38E+02	.....
	39	832.27	828 -	836	832.11	5.38E+01	40.65	2.22E+02	PB-211
	40	911.10	907 -	914	910.91	6.10E+01	38.63	2.08E+02	AC-228
	41	934.41	929 -	938	934.20	8.59E+01	47.27	2.70E+02	.....
	42	946.63	944 -	950	946.42	2.39E+01	28.80	1.34E+02	PA-234
	43	969.99	966 -	975	969.77	4.29E+01	39.91	1.98E+02	AC-228
	44	1002.04	997 -	1006	1001.81	3.90E+01	35.72	1.60E+02	.....
	45	1072.50	1070 -	1076	1072.24	2.12E+01	26.07	1.08E+02	.....
	46	1078.45	1076 -	1081	1078.18	1.67E+01	21.10	7.65E+01	.....

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	47	1120.27	1114 -	1125	1119.98	4.94E+02	58.03	1.74E+02	BI-214 SC-46
	48	1135.58	1131 -	1141	1135.29	2.79E+01	34.45	1.44E+02	.....
M	49	1151.59	1150 -	1170	1151.29	1.40E+01	14.14	5.05E+01	.....
m	50	1155.00	1150 -	1170	1154.70	4.42E+01	28.57	1.15E+02	.....
M	51	1238.36	1233 -	1247	1238.03	1.77E+02	36.12	1.24E+02	CO-56
m	52	1245.11	1233 -	1247	1244.77	1.77E+01	22.05	8.14E+01	.....
	53	1279.61	1274 -	1284	1279.26	3.40E+01	32.74	1.20E+02	.....
	54	1343.59	1339 -	1346	1343.21	1.96E+01	22.98	7.28E+01	.....
	55	1377.59	1372 -	1382	1377.20	9.40E+01	39.89	1.54E+02	.....
	56	1384.87	1382 -	1388	1384.48	2.06E+01	23.02	8.28E+01	AG-110M
M	57	1401.96	1394 -	1410	1401.56	4.10E+01	30.35	1.09E+02	.....
m	58	1408.28	1394 -	1410	1407.88	7.30E+01	24.10	5.76E+01	EU-152
	59	1461.41	1456 -	1466	1460.99	1.04E+02	36.24	1.15E+02	K-40
	60	1508.53	1502 -	1513	1508.09	8.83E+01	32.74	8.94E+01	.....
	61	1582.60	1579 -	1585	1582.13	3.65E+01	18.40	3.50E+01	.....
	62	1660.30	1654 -	1665	1659.81	4.69E+01	20.69	3.02E+01	.....
	63	1729.22	1723 -	1733	1728.70	8.88E+01	24.53	3.25E+01	.....
	64	1764.56	1759 -	1768	1764.03	3.41E+02	39.67	3.00E+01	BI-214
	65	1847.51	1842 -	1851	1846.95	4.31E+01	19.44	2.78E+01	.....
	66	1914.57	1910 -	1918	1913.99	1.12E+01	11.52	1.37E+01	.....
	67	1938.96	1933 -	1943	1938.37	2.12E+01	16.83	2.36E+01	.....
	68	2036.09	2033 -	2038	2035.47	7.86E+00	8.43	6.27E+00	.....
	69	2118.44	2114 -	2121	2117.79	3.06E+01	13.86	1.08E+01	.....
	70	2178.26	2173 -	2181	2177.60	1.00E+01	6.32	0.00E+00	.....
	71	2204.16	2198 -	2207	2203.49	9.30E+01	19.29	0.00E+00	BI-214
	72	2447.60	2441 -	2449	2446.86	1.62E+01	9.81	5.68E+00	.....
	73	2613.96	2608 -	2616	2613.19	1.61E+01	9.60	3.78E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 2:45:03PM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	27.75	1.06E+02	89.93	3.57E-03	1.58E-03
2	46.81	9.07E+02	184.65	1.52E-02	1.58E-03

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	3	67.85	1.45E+03	183.60	2.26E-02	1.86E-03
M	4	76.51	3.13E+03	234.55	2.38E-02	2.14E-03
m	5	80.98	5.81E+02	155.20	2.41E-02	2.29E-03
m	6	83.79	1.13E+03	151.35	2.43E-02	2.38E-03
m	7	87.78	1.03E+03	199.22	2.44E-02	2.52E-03
	8	112.79	1.00E+02	104.84	2.37E-02	1.95E-03
	9	143.88	4.86E+02	163.01	2.14E-02	1.62E-03
	10	154.22	5.78E+02	169.55	2.06E-02	1.57E-03
	11	186.28	7.43E+02	156.81	1.83E-02	1.42E-03
	12	209.94	1.21E+02	98.73	1.68E-02	1.31E-03
M	13	236.02	3.94E+02	87.73	1.54E-02	1.19E-03
m	14	238.77	2.23E+02	101.13	1.52E-02	1.18E-03
m	15	242.14	9.98E+02	97.82	1.50E-02	1.17E-03
	16	256.88	2.84E+02	115.24	1.44E-02	1.10E-03
	17	270.36	5.72E+02	119.04	1.38E-02	1.04E-03
	18	285.09	1.53E+02	94.78	1.32E-02	9.88E-04
M	19	295.41	1.96E+03	104.13	1.28E-02	9.74E-04
m	20	300.23	1.18E+02	77.81	1.26E-02	9.67E-04
m	21	303.49	1.24E+02	67.13	1.25E-02	9.62E-04
	22	324.28	8.94E+01	62.41	1.19E-02	9.33E-04
	23	338.55	7.51E+01	60.97	1.14E-02	9.13E-04
	24	352.04	3.49E+03	147.70	1.11E-02	8.93E-04
	25	381.28	5.55E+01	50.60	1.03E-02	8.52E-04
	26	388.94	1.11E+02	84.23	1.02E-02	8.41E-04
M	27	401.88	1.39E+02	58.02	9.87E-03	8.27E-04
m	28	405.14	7.54E+01	59.75	9.80E-03	8.24E-04
	29	420.60	5.01E+01	58.22	9.49E-03	8.08E-04
	30	426.47	5.70E+01	55.61	9.38E-03	8.03E-04
	31	511.83	1.50E+02	67.26	8.00E-03	7.17E-04
	32	532.15	6.31E+01	44.27	7.73E-03	6.97E-04
	33	581.63	6.29E+01	59.27	7.16E-03	6.48E-04
	34	609.48	2.31E+03	112.31	6.87E-03	6.20E-04
	35	664.88	1.08E+02	54.27	6.37E-03	5.65E-04
	36	703.86	3.11E+01	35.36	6.06E-03	5.33E-04
	37	768.63	2.11E+02	54.26	5.62E-03	4.80E-04
m	38	806.36	7.35E+01	31.97	5.39E-03	4.50E-04
	39	832.27	5.38E+01	40.65	5.24E-03	4.28E-04
	40	911.10	6.10E+01	38.63	4.85E-03	3.72E-04
	41	934.41	8.59E+01	47.27	4.75E-03	3.68E-04
	42	946.63	2.39E+01	28.80	4.70E-03	3.66E-04
	43	969.99	4.29E+01	39.91	4.60E-03	3.61E-04
	44	1002.04	3.90E+01	35.72	4.48E-03	3.55E-04
	45	1072.50	2.12E+01	26.07	4.23E-03	3.42E-04
	46	1078.45	1.67E+01	21.10	4.21E-03	3.41E-04
	47	1120.27	4.94E+02	58.03	4.08E-03	3.33E-04
	48	1135.58	2.79E+01	34.45	4.03E-03	3.30E-04
M	49	1151.59	1.40E+01	14.14	3.99E-03	3.27E-04
m	50	1155.00	4.42E+01	28.57	3.98E-03	3.27E-04
M	51	1238.36	1.77E+02	36.12	3.75E-03	3.09E-04
m	52	1245.11	1.77E+01	22.05	3.74E-03	3.08E-04
	53	1279.61	3.40E+01	32.74	3.66E-03	3.00E-04
	54	1343.59	1.96E+01	22.98	3.52E-03	2.87E-04
	55	1377.59	9.40E+01	39.89	3.45E-03	2.82E-04

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	56	1384.87	2.06E+01	23.02	3.43E-03	2.81E-04
M	57	1401.96	4.10E+01	30.35	3.40E-03	2.78E-04
m	58	1408.28	7.30E+01	24.10	3.39E-03	2.77E-04
	59	1461.41	1.04E+02	36.24	3.29E-03	2.69E-04
	60	1508.53	8.83E+01	32.74	3.21E-03	2.62E-04
	61	1582.60	3.65E+01	18.40	3.10E-03	2.51E-04
	62	1660.30	4.69E+01	20.69	2.99E-03	2.39E-04
	63	1729.22	8.88E+01	24.53	2.90E-03	2.29E-04
	64	1764.56	3.41E+02	39.67	2.86E-03	2.24E-04
	65	1847.51	4.31E+01	19.44	2.77E-03	2.13E-04
	66	1914.57	1.12E+01	11.52	2.70E-03	2.13E-04
	67	1938.96	2.12E+01	16.83	2.68E-03	2.13E-04
	68	2036.09	7.86E+00	8.43	2.59E-03	2.13E-04
	69	2118.44	3.06E+01	13.86	2.52E-03	2.13E-04
	70	2178.26	1.00E+01	6.32	2.48E-03	2.13E-04
	71	2204.16	9.30E+01	19.29	2.46E-03	2.13E-04
	72	2447.60	1.62E+01	9.81	2.32E-03	2.13E-04
	73	2613.96	1.61E+01	9.60	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 2:45:03PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	27.75	1.06E+02	89.93			1.06E+02	8.99E+01
	2	46.81	9.07E+02	184.65	5.08E+01	9.30E+00	8.57E+02	1.85E+02
	3	67.85	1.45E+03	183.60			1.45E+03	1.84E+02
M	4	76.51	3.13E+03	234.55	1.20E+01	3.96E+00	3.12E+03	2.35E+02
m	5	80.98	5.81E+02	155.20			5.81E+02	1.55E+02
m	6	83.79	1.13E+03	151.35	1.09E+01	3.84E+00	1.12E+03	1.51E+02
m	7	87.78	1.03E+03	199.22	1.61E+01	4.76E+00	1.02E+03	1.99E+02
	8	112.79	1.00E+02	104.84			1.00E+02	1.05E+02
	9	143.88	4.86E+02	163.01	9.45E+00	6.13E+00	4.77E+02	1.63E+02
	10	154.22	5.78E+02	169.55			5.78E+02	1.70E+02
	11	186.28	7.43E+02	156.81	3.41E+01	6.16E+00	7.09E+02	1.57E+02
	12	209.94	1.21E+02	98.73			1.21E+02	9.87E+01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	13	236.02	3.94E+02	87.73			3.94E+02	8.77E+01
m	14	238.77	2.23E+02	101.13	1.57E+01	4.91E+00	2.07E+02	1.01E+02
m	15	242.14	9.98E+02	97.82			9.98E+02	9.78E+01
	16	256.88	2.84E+02	115.24			2.84E+02	1.15E+02
	17	270.36	5.72E+02	119.04			5.72E+02	1.19E+02
	18	285.09	1.53E+02	94.78			1.53E+02	9.48E+01
M	19	295.41	1.96E+03	104.13	2.05E+00	6.38E+00	1.96E+03	1.04E+02
m	20	300.23	1.18E+02	77.81			1.18E+02	7.78E+01
m	21	303.49	1.24E+02	67.13			1.24E+02	6.71E+01
	22	324.28	8.94E+01	62.41			8.94E+01	6.24E+01
	23	338.55	7.51E+01	60.97			7.51E+01	6.10E+01
	24	352.04	3.49E+03	147.70	8.85E+00	4.53E+00	3.49E+03	1.48E+02
	25	381.28	5.55E+01	50.60			5.55E+01	5.06E+01
	26	388.94	1.11E+02	84.23			1.11E+02	8.42E+01
M	27	401.88	1.39E+02	58.02			1.39E+02	5.80E+01
m	28	405.14	7.54E+01	59.75			7.54E+01	5.97E+01
	29	420.60	5.01E+01	58.22			5.01E+01	5.82E+01
	30	426.47	5.70E+01	55.61			5.70E+01	5.56E+01
	31	511.83	1.50E+02	67.26	6.53E+01	5.06E+00	8.49E+01	6.75E+01
	32	532.15	6.31E+01	44.27			6.31E+01	4.43E+01
	33	581.63	6.29E+01	59.27			6.29E+01	5.93E+01
	34	609.48	2.31E+03	112.31	8.51E+00	1.93E+00	2.30E+03	1.12E+02
	35	664.88	1.08E+02	54.27			1.08E+02	5.43E+01
	36	703.86	3.11E+01	35.36			3.11E+01	3.54E+01
	37	768.63	2.11E+02	54.26			2.11E+02	5.43E+01
m	38	806.36	7.35E+01	31.97			7.35E+01	3.20E+01
	39	832.27	5.38E+01	40.65			5.38E+01	4.06E+01
	40	911.10	6.10E+01	38.63	2.74E+00	2.96E+00	5.83E+01	3.87E+01
	41	934.41	8.59E+01	47.27			8.59E+01	4.73E+01
	42	946.63	2.39E+01	28.80			2.39E+01	2.88E+01
	43	969.99	4.29E+01	39.91	1.43E+00	2.58E+00	4.15E+01	4.00E+01
	44	1002.04	3.90E+01	35.72	2.16E+00	2.26E+00	3.68E+01	3.58E+01
	45	1072.50	2.12E+01	26.07			2.12E+01	2.61E+01
	46	1078.45	1.67E+01	21.10			1.67E+01	2.11E+01
	47	1120.27	4.94E+02	58.03			4.94E+02	5.80E+01
	48	1135.58	2.79E+01	34.45			2.79E+01	3.44E+01
M	49	1151.59	1.40E+01	14.14			1.40E+01	1.41E+01
m	50	1155.00	4.42E+01	28.57			4.42E+01	2.86E+01
M	51	1238.36	1.77E+02	36.12			1.77E+02	3.61E+01
m	52	1245.11	1.77E+01	22.05			1.77E+01	2.20E+01
	53	1279.61	3.40E+01	32.74			3.40E+01	3.27E+01
	54	1343.59	1.96E+01	22.98			1.96E+01	2.30E+01
	55	1377.59	9.40E+01	39.89			9.40E+01	3.99E+01
	56	1384.87	2.06E+01	23.02			2.06E+01	2.30E+01
M	57	1401.96	4.10E+01	30.35			4.10E+01	3.03E+01
m	58	1408.28	7.30E+01	24.10			7.30E+01	2.41E+01
	59	1461.41	1.04E+02	36.24	2.41E+00	1.70E+00	1.02E+02	3.63E+01
	60	1508.53	8.83E+01	32.74			8.83E+01	3.27E+01
	61	1582.60	3.65E+01	18.40			3.65E+01	1.84E+01
	62	1660.30	4.69E+01	20.69			4.69E+01	2.07E+01
	63	1729.22	8.88E+01	24.53			8.88E+01	2.45E+01
	64	1764.56	3.41E+02	39.67			3.41E+02	3.97E+01
	65	1847.51	4.31E+01	19.44			4.31E+01	1.94E+01
	66	1914.57	1.12E+01	11.52			1.12E+01	1.15E+01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
67	1938.96	2.12E+01	16.83			2.12E+01	1.68E+01
68	2036.09	7.86E+00	8.43			7.86E+00	8.43E+00
69	2118.44	3.06E+01	13.86			3.06E+01	1.39E+01
70	2178.26	1.00E+01	6.32			1.00E+01	6.32E+00
71	2204.16	9.30E+01	19.29			9.30E+01	1.93E+01
72	2447.60	1.62E+01	9.81			1.62E+01	9.81E+00
73	2613.96	1.61E+01	9.60			1.61E+01	9.60E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 2:45:03PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	27.75	1.06E+02	89.93			1.06E+02	8.99E+01
	2	46.81	9.07E+02	184.65	5.08E+01	9.30E+00	8.57E+02	1.85E+02
	3	67.85	1.45E+03	183.60			1.45E+03	1.84E+02
M	4	76.51	3.13E+03	234.55	1.20E+01	3.96E+00	3.12E+03	2.35E+02
m	5	80.98	5.81E+02	155.20			5.81E+02	1.55E+02
m	6	83.79	1.13E+03	151.35	1.09E+01	3.84E+00	1.12E+03	1.51E+02
m	7	87.78	1.03E+03	199.22	1.61E+01	4.76E+00	1.02E+03	1.99E+02
	8	112.79	1.00E+02	104.84			1.00E+02	1.05E+02
	9	143.88	4.86E+02	163.01	9.45E+00	6.13E+00	4.77E+02	1.63E+02
	10	154.22	5.78E+02	169.55			5.78E+02	1.70E+02
	11	186.28	7.43E+02	156.81	3.41E+01	6.16E+00	7.09E+02	1.57E+02
	12	209.94	1.21E+02	98.73			1.21E+02	9.87E+01
M	13	236.02	3.94E+02	87.73			3.94E+02	8.77E+01
m	14	238.77	2.23E+02	101.13	1.57E+01	4.91E+00	2.07E+02	1.01E+02
m	15	242.14	9.98E+02	97.82			9.98E+02	9.78E+01
	16	256.88	2.84E+02	115.24			2.84E+02	1.15E+02
	17	270.36	5.72E+02	119.04			5.72E+02	1.19E+02
	18	285.09	1.53E+02	94.78			1.53E+02	9.48E+01
M	19	295.41	1.96E+03	104.13	2.05E+00	6.38E+00	1.96E+03	1.04E+02
m	20	300.23	1.18E+02	77.81			1.18E+02	7.78E+01
m	21	303.49	1.24E+02	67.13			1.24E+02	6.71E+01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	22	324.28	8.94E+01	62.41			8.94E+01	6.24E+01
	23	338.55	7.51E+01	60.97			7.51E+01	6.10E+01
	24	352.04	3.49E+03	147.70	8.85E+00	4.53E+00	3.49E+03	1.48E+02
	25	381.28	5.55E+01	50.60			5.55E+01	5.06E+01
	26	388.94	1.11E+02	84.23			1.11E+02	8.42E+01
M	27	401.88	1.39E+02	58.02			1.39E+02	5.80E+01
m	28	405.14	7.54E+01	59.75			7.54E+01	5.97E+01
	29	420.60	5.01E+01	58.22			5.01E+01	5.82E+01
	30	426.47	5.70E+01	55.61			5.70E+01	5.56E+01
	31	511.83	1.50E+02	67.26	6.53E+01	5.06E+00	8.49E+01	6.75E+01
	32	532.15	6.31E+01	44.27			6.31E+01	4.43E+01
	33	581.63	6.29E+01	59.27			6.29E+01	5.93E+01
	34	609.48	2.31E+03	112.31	8.51E+00	1.93E+00	2.30E+03	1.12E+02
	35	664.88	1.08E+02	54.27			1.08E+02	5.43E+01
	36	703.86	3.11E+01	35.36			3.11E+01	3.54E+01
	37	768.63	2.11E+02	54.26			2.11E+02	5.43E+01
m	38	806.36	7.35E+01	31.97			7.35E+01	3.20E+01
	39	832.27	5.38E+01	40.65			5.38E+01	4.06E+01
	40	911.10	6.10E+01	38.63	2.74E+00	2.96E+00	5.83E+01	3.87E+01
	41	934.41	8.59E+01	47.27			8.59E+01	4.73E+01
	42	946.63	2.39E+01	28.80			2.39E+01	2.88E+01
	43	969.99	4.29E+01	39.91	1.43E+00	2.58E+00	4.15E+01	4.00E+01
	44	1002.04	3.90E+01	35.72	2.16E+00	2.26E+00	3.68E+01	3.58E+01
	45	1072.50	2.12E+01	26.07			2.12E+01	2.61E+01
	46	1078.45	1.67E+01	21.10			1.67E+01	2.11E+01
	47	1120.27	4.94E+02	58.03			4.94E+02	5.80E+01
	48	1135.58	2.79E+01	34.45			2.79E+01	3.44E+01
M	49	1151.59	1.40E+01	14.14			1.40E+01	1.41E+01
m	50	1155.00	4.42E+01	28.57			4.42E+01	2.86E+01
M	51	1238.36	1.77E+02	36.12			1.77E+02	3.61E+01
m	52	1245.11	1.77E+01	22.05			1.77E+01	2.20E+01
	53	1279.61	3.40E+01	32.74			3.40E+01	3.27E+01
	54	1343.59	1.96E+01	22.98			1.96E+01	2.30E+01
	55	1377.59	9.40E+01	39.89			9.40E+01	3.99E+01
	56	1384.87	2.06E+01	23.02			2.06E+01	2.30E+01
M	57	1401.96	4.10E+01	30.35			4.10E+01	3.03E+01
m	58	1408.28	7.30E+01	24.10			7.30E+01	2.41E+01
	59	1461.41	1.04E+02	36.24	2.41E+00	1.70E+00	1.02E+02	3.63E+01
	60	1508.53	8.83E+01	32.74			8.83E+01	3.27E+01
	61	1582.60	3.65E+01	18.40			3.65E+01	1.84E+01
	62	1660.30	4.69E+01	20.69			4.69E+01	2.07E+01
	63	1729.22	8.88E+01	24.53			8.88E+01	2.45E+01
	64	1764.56	3.41E+02	39.67			3.41E+02	3.97E+01
	65	1847.51	4.31E+01	19.44			4.31E+01	1.94E+01
	66	1914.57	1.12E+01	11.52			1.12E+01	1.15E+01
	67	1938.96	2.12E+01	16.83			2.12E+01	1.68E+01
	68	2036.09	7.86E+00	8.43			7.86E+00	8.43E+00
	69	2118.44	3.06E+01	13.86			3.06E+01	1.39E+01
	70	2178.26	1.00E+01	6.32			1.00E+01	6.32E+00
	71	2204.16	9.30E+01	19.29			9.30E+01	1.93E+01
	72	2447.60	1.62E+01	9.81			1.62E+01	9.81E+00
	73	2613.96	1.61E+01	9.60			1.61E+01	9.60E+00

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.944	1460.81	*	10.67	6.57E+00	2.40E+00
CD-109	0.990	88.03	*	3.72	2.70E+01	6.18E+00
SN-126	0.993	87.57	*	37.00	2.55E+00	5.65E-01
PB-210	0.985	46.50	*	4.25	3.02E+01	7.23E+00
PB-211	0.985	404.84	*	2.90	6.01E+00	4.79E+00
		831.96	*	2.90	8.01E+00	6.09E+00
PB-212	0.997	238.63	*	44.60	6.90E-01	3.42E-01
		300.09	*	3.41	6.19E+00	4.11E+00
BI-214	0.997	609.31	*	46.30	1.64E+01	1.68E+00
		1120.29	*	15.10	1.82E+01	2.60E+00
		1764.49	*	15.80	1.71E+01	2.40E+00
		2204.22	*	4.98	1.72E+01	3.86E+00
PB-214	0.996	295.21	*	19.19	1.80E+01	1.67E+00
		351.92	*	37.19	1.92E+01	1.75E+00
RN-219	0.999	401.80	*	6.50	4.91E+00	2.09E+00
RA-223	0.973	323.87	*	3.88	4.40E+00	3.09E+00
RA-226	0.999	186.21	*	3.28	2.68E+01	4.94E+01
TH-227	0.449	50.10		8.40		
		236.00	*	11.50	5.05E+00	1.19E+00
		256.20	*	6.30	7.12E+00	2.93E+00
AC-228	0.962	338.32	*	11.40	1.31E+00	1.06E+00
		911.07	*	27.70	9.81E-01	6.57E-01
		969.11	*	16.60	1.23E+00	1.19E+00
TH-231	0.310	25.64		14.70		
		84.21	*	6.40	1.64E+01	2.73E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 2:45:03PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	27.75	2.94427E-02	42.42		
	3	67.85	4.01765E-01	6.35	Tol.	TA-182 TH-230
M	4	76.51	8.66918E-01	3.76		
m	5	80.98	1.61440E-01	13.35	Tol.	BA-133 HF-172
	8	112.79	2.78851E-02	52.22		
	9	143.88	1.32461E-01	17.10	Tol.	U-235
	10	154.22	1.60596E-01	14.66	Tol.	CS-136
	12	209.94	3.36262E-02	40.78	Tol.	GA-67 CM-243
m	15	242.14	2.77248E-01	4.90		
	17	270.36	1.58988E-01	10.40	Sum	
	18	285.09	4.26333E-02	30.88	Sum	
m	21	303.49	3.45623E-02	26.97	Sum	
	25	381.28	1.54229E-02	45.56		
	26	388.94	3.08393E-02	37.93	Sum	
	29	420.60	1.39035E-02	58.16		
	30	426.47	1.58203E-02	48.83	Sum	
	31	511.83	2.35928E-02	39.71		
	32	532.15	1.75270E-02	35.08	Sum	
	33	581.63	1.74715E-02	47.12	Sum	
	35	664.88	3.00939E-02	25.05	Tol.	CE-143
	36	703.86	8.65226E-03	56.76	Sum	
	37	768.63	5.87488E-02	12.83		
m	38	806.36	2.04294E-02	21.74	Sum	
	41	934.41	2.38474E-02	27.53	Sum	
	42	946.63	6.62698E-03	60.36	Tol.	PA-234
	44	1002.04	1.02325E-02	48.58		
	45	1072.50	5.89259E-03	61.45		
	46	1078.45	4.64899E-03	63.02		
	48	1135.58	7.73889E-03	61.82		
M	49	1151.59	3.89924E-03	50.37		
m	50	1155.00	1.22820E-02	32.30		
M	51	1238.36	4.92514E-02	10.19	Sum	
m	52	1245.11	4.91077E-03	62.35		
	53	1279.61	9.43262E-03	48.20		
	54	1343.59	5.45139E-03	58.54		
	55	1377.59	2.61111E-02	21.22	Sum	

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	56	1384.87	5.71685E-03	55.92	Tol.	AG-110M
M	57	1401.96	1.13980E-02	36.98		
m	58	1408.28	2.02688E-02	16.52	Tol.	EU-152
	60	1508.53	2.45332E-02	18.54	Sum	
	61	1582.60	1.01389E-02	25.20		
	62	1660.30	1.30287E-02	22.05		
	63	1729.22	2.46561E-02	13.82	Sum	
	65	1847.51	1.19737E-02	22.55	Sum	
	66	1914.57	3.10185E-03	51.59		
	67	1938.96	5.88384E-03	39.73		
	68	2036.09	2.18434E-03	53.58		
	69	2118.44	8.49537E-03	22.65		
	70	2178.26	2.77778E-03	31.62		
	72	2447.60	4.48830E-03	30.36		
	73	2613.96	4.47531E-03	29.81	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.94	1460.81	*	10.67	6.57E+00	2.40E+00
CD-109	0.99	88.03	*	3.72	2.70E+01	6.18E+00
SN-126	0.99	87.57	*	37.00	2.55E+00	5.65E-01
PB-210	0.98	46.50	*	4.25	3.02E+01	7.23E+00
PB-211	0.98	404.84	*	2.90	6.01E+00	4.79E+00
		831.96	*	2.90	8.01E+00	6.09E+00
PB-212	0.99	238.63	*	44.60	6.90E-01	3.42E-01
		300.09	*	3.41	6.19E+00	4.11E+00
BI-214	0.99	609.31	*	46.30	1.64E+01	1.68E+00
		1120.29	*	15.10	1.82E+01	2.60E+00
		1764.49	*	15.80	1.71E+01	2.40E+00
		2204.22	*	4.98	1.72E+01	3.86E+00
PB-214	0.99	295.21	*	19.19	1.80E+01	1.67E+00

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.99	351.92	*	37.19	1.92E+01	1.75E+00
RN-219	0.99	401.80	*	6.50	4.91E+00	2.09E+00
RA-223	0.97	323.87	*	3.88	4.40E+00	3.09E+00
RA-226	0.99	186.21	*	3.28	2.68E+01	4.94E+01
TH-227	0.44	50.10		8.40		
		236.00	*	11.50	5.05E+00	1.19E+00
		256.20	*	6.30	7.12E+00	2.93E+00
AC-228	0.96	338.32	*	11.40	1.31E+00	1.06E+00
		911.07	*	27.70	9.81E-01	6.57E-01
		969.11	*	16.60	1.23E+00	1.19E+00
TH-231	0.31	25.64		14.70		
		84.21	*	6.40	1.64E+01	2.73E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.944	6.57E+00	2.40E+00	
X	NB-95M	0.511			
?	CD-109	0.990	2.70E+01	6.18E+00	
?	SN-126	0.993	2.55E+00	5.65E-01	
	PB-210	0.985	3.02E+01	7.23E+00	
	PB-211	0.985	6.77E+00	3.76E+00	
	PB-212	0.997	7.28E-01	3.41E-01	
	BI-214	0.997	1.70E+01	1.16E+00	
	PB-214	0.996	1.86E+01	1.21E+00	
	RN-219	0.999	4.91E+00	2.09E+00	
	RA-223	0.973	4.40E+00	3.09E+00	
	RA-226	0.999	2.68E+01	4.94E+01	
	TH-227	0.449	5.34E+00	1.10E+00	
	AC-228	0.962	1.10E+00	5.06E-01	
	TH-231	0.310	1.64E+01	2.73E+00	

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 2:45:03PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	27.75	2.94427E-02	42.42		
	3	67.85	4.01765E-01	6.35	Tol.	TA-182
						TH-230
M	4	76.51	8.66918E-01	3.76		
m	5	80.98	1.61440E-01	13.35	Tol.	BA-133
						HF-172
	8	112.79	2.78851E-02	52.22		
	9	143.88	1.32461E-01	17.10	Tol.	U-235
	10	154.22	1.60596E-01	14.66	Tol.	CS-136
	12	209.94	3.36262E-02	40.78	Tol.	GA-67
						CM-243
m	15	242.14	2.77248E-01	4.90		
	17	270.36	1.58988E-01	10.40	Sum	
	18	285.09	4.26333E-02	30.88	Sum	
m	21	303.49	3.45623E-02	26.97	Sum	
	25	381.28	1.54229E-02	45.56		
	26	388.94	3.08393E-02	37.93	Sum	
	29	420.60	1.39035E-02	58.16		
	30	426.47	1.58203E-02	48.83	Sum	
	31	511.83	2.35928E-02	39.71		
	32	532.15	1.75270E-02	35.08	Sum	
	33	581.63	1.74715E-02	47.12	Sum	
	35	664.88	3.00939E-02	25.05	Tol.	CE-143
	36	703.86	8.65226E-03	56.76	Sum	
	37	768.63	5.87488E-02	12.83		
m	38	806.36	2.04294E-02	21.74	Sum	
	41	934.41	2.38474E-02	27.53	Sum	
	42	946.63	6.62698E-03	60.36	Tol.	PA-234
	44	1002.04	1.02325E-02	48.58		
	45	1072.50	5.89259E-03	61.45		
	46	1078.45	4.64899E-03	63.02		
	48	1135.58	7.73889E-03	61.82		

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	49	1151.59	3.89924E-03	50.37		
m	50	1155.00	1.22820E-02	32.30		
M	51	1238.36	4.92514E-02	10.19	Sum	
m	52	1245.11	4.91077E-03	62.35		
	53	1279.61	9.43262E-03	48.20		
	54	1343.59	5.45139E-03	58.54		
	55	1377.59	2.61111E-02	21.22	Sum	
	56	1384.87	5.71685E-03	55.92	Tol.	AG-110M
M	57	1401.96	1.13980E-02	36.98		
m	58	1408.28	2.02688E-02	16.52	Tol.	EU-152
	60	1508.53	2.45332E-02	18.54	Sum	
	61	1582.60	1.01389E-02	25.20		
	62	1660.30	1.30287E-02	22.05		
	63	1729.22	2.46561E-02	13.82	Sum	
	65	1847.51	1.19737E-02	22.55	Sum	
	66	1914.57	3.10185E-03	51.59		
	67	1938.96	5.88384E-03	39.73		
	68	2036.09	2.18434E-03	53.58		
	69	2118.44	8.49537E-03	22.65		
	70	2178.26	2.77778E-03	31.62		
	72	2447.60	4.48830E-03	30.36		
	73	2613.96	4.47531E-03	29.81	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	3.17E-01	3.11E+00	3.11E+00
+	NA-22	1274.54	99.94	9.94E-03	2.77E-01	2.77E-01
+	NA-24	1368.53	99.99	-6.33E+18	5.76E+18	1.92E+19
		2754.09	99.86	5.22E+17		5.76E+18
+	AL-26	1808.65	99.76	1.65E-02	1.68E-01	1.68E-01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	K-40	1460.81	*	10.67	6.57E+00	3.37E+00	3.37E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.64E+00	2.85E-01	2.86E-01
		78.34		96.00	8.87E-01		2.85E-01
+	SC-46	889.25		99.98	2.74E-02	3.10E-01	3.10E-01
		1120.51		99.99	3.73E+00		8.65E-01
+	V-48	983.52		99.98	9.19E-02	1.31E+00	1.31E+00
		1312.10		97.50	-7.37E-01		1.33E+00
+	CR-51	320.08		9.83	-3.90E-02	5.48E+00	5.48E+00
+	MN-54	834.83		99.97	-2.25E-02	2.74E-01	2.74E-01
+	CO-56	846.75		99.96	2.05E-01	3.42E-01	3.42E-01
		1037.75		14.03	-5.96E-01		2.22E+00
		1238.25		67.00	2.27E+00		9.36E-01
		1771.40		15.51	-1.47E+00		1.39E+00
		2598.48		16.90	-1.71E-01		6.31E-01
+	CO-57	122.06		85.51	2.12E-02	1.86E-01	1.86E-01
		136.48		10.60	-7.92E-01		1.53E+00
+	CO-58	810.76		99.40	5.58E-02	3.01E-01	3.01E-01
+	FE-59	1099.22		56.50	7.02E-02	7.39E-01	7.39E-01
		1291.56		43.20	7.05E-01		1.19E+00
+	CO-60	1173.22		100.00	5.44E-02	2.29E-01	2.29E-01
		1332.49		100.00	1.02E-03		2.46E-01
+	ZN-65	1115.52		50.75	-2.28E-02	5.07E-01	5.07E-01
+	GA-67	93.31		35.70	4.65E+03	3.18E+03	3.18E+03
		208.95		2.24	1.70E+04		5.68E+04
		300.22		16.00	-1.80E+05		9.08E+03
+	SE-75	121.11		16.70	2.71E-01	3.12E-01	1.08E+00
		136.00		59.20	-9.23E-02		3.12E-01
		264.65		59.80	-8.56E-03		3.95E-01
		279.53		25.20	9.75E-02		9.77E-01
		400.65		11.40	7.09E-01		2.60E+00
+	RB-82	776.52		13.00	1.72E-01	4.79E+00	4.79E+00
+	RB-83	520.41		46.00	9.57E-02	5.40E-01	5.40E-01
		529.64		30.30	4.96E-02		8.92E-01
		552.65		16.40	2.25E-01		1.61E+00
+	KR-85	513.99		0.43	3.83E+01	5.13E+01	5.13E+01
+	SR-85	513.99		99.27	2.59E-01	3.46E-01	3.46E-01
+	Y-88	898.02		93.40	6.63E-02	2.09E-01	3.19E-01
		1836.01		99.38	6.02E-02		2.09E-01
+	NB-93M	16.57		9.43	1.66E+03	3.19E+02	3.19E+02
+	NB-94	702.63		100.00	2.37E-02	2.09E-01	2.09E-01
		871.10		100.00	3.21E-02		2.20E-01
+	NB-95	765.79		99.81	1.46E+00	7.50E-01	7.50E-01
+	NB-95M	235.69	*	25.00	6.42E+03	4.20E+03	4.20E+03
+	ZR-95	724.18		43.70	-1.55E-01	5.87E-01	6.96E-01
		756.72		55.30	2.36E-02		5.87E-01
+	MO-99	181.06		6.20	-2.70E+04	5.06E+04	8.62E+04

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	MO-99	739.58		12.80	-7.75E+03	5.06E+04	5.06E+04
		778.00		4.50	5.89E+04		1.48E+05
+	RU-103	497.08		89.00	-9.92E-02	4.15E-01	4.15E-01
+	RU-106	621.84		9.80	-4.56E-01	2.02E+00	2.02E+00
+	AG-108M	433.93		89.90	1.09E-01	2.10E-01	2.21E-01
		614.37		90.40	4.96E-02		2.97E-01
		722.95		90.50	-1.05E-01		2.10E-01
+	CD-109	88.03	*	3.72	2.70E+01	1.95E+01	1.95E+01
+	AG-110M	657.75		93.14	9.52E-02	2.43E-01	2.43E-01
		677.61		10.53	-1.06E+00		1.87E+00
		706.67		16.46	1.12E-01		1.43E+00
		763.93		21.98	6.71E-02		1.12E+00
		884.67		71.63	-4.99E-02		3.35E-01
		1384.27		23.94	-2.21E+00		1.32E+00
+	CD-113M	263.70		0.02	-1.76E+01	7.90E+02	7.90E+02
+	SN-113	255.12		1.93	1.33E+01	3.99E-01	1.45E+01
		391.69		64.90	2.61E-02		3.99E-01
+	TE123M	159.00		84.10	-3.74E-02	2.37E-01	2.37E-01
+	SB-124	602.71		97.87	3.73E-02	3.43E-01	3.43E-01
		645.85		7.26	1.61E+00		4.01E+00
		722.78		11.10	-1.38E+00		2.75E+00
		1691.02		49.00	-1.40E-01		6.55E-01
+	I-125	35.49		6.49	-2.56E+00	9.69E+00	9.69E+00
+	SB-125	176.33		6.89	4.97E-01	7.39E-01	2.39E+00
		427.89		29.33	5.14E-01		7.39E-01
		463.38		10.35	4.44E-01		1.95E+00
		600.56		17.80	1.46E-01		1.18E+00
		635.90		11.32	7.89E-01		1.69E+00
+	SB-126	414.70		83.30	-5.01E-01	2.00E+00	2.46E+00
		666.33		99.60	2.67E+00		2.45E+00
		695.00		99.60	-3.42E-01		2.00E+00
		720.50		53.80	-2.02E-02		3.57E+00
+	SN-126	87.57	*	37.00	2.55E+00	1.85E+00	1.85E+00
+	SB-127	473.00		25.00	1.15E+02	8.88E+02	1.26E+03
		685.20		35.70	-1.59E+02		8.88E+02
		783.80		14.70	1.78E+03		2.58E+03
+	I-129	29.78		57.00	-3.21E-01	1.25E+00	1.25E+00
		33.60		13.20	1.37E+00		3.58E+00
		39.58		7.52	-7.62E-01		4.05E+00
+	I-131	284.30		6.05	1.47E+02	8.11E+00	1.21E+02
		364.48		81.20	1.18E+00		8.11E+00
		636.97		7.26	4.06E+01		9.02E+01
		722.89		1.80	-1.86E+02		3.70E+02
+	TE-132	49.72		13.10	-6.87E+04	1.39E+03	1.12E+04
		228.16		88.00	1.64E+02		1.39E+03
+	BA-133	81.00		33.00	-6.25E+00	5.97E-01	6.47E-01
		302.84		17.80	1.81E+00		1.24E+00
		356.01		60.00	-2.90E-02		5.97E-01
+	I-133	529.87		86.30	2.70E+12	4.86E+13	4.86E+13

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CS-134	563.23	8.38	8.54E-01	2.37E-01	2.44E+00
		569.32	15.43	-3.35E-01		1.37E+00
		604.70	97.60	9.24E-04		3.26E-01
		795.84	85.40	7.51E-02		2.37E-01
		801.93	8.73	-3.15E+00		2.34E+00
+	CS-135	268.24	16.00	3.26E+00	1.56E+00	1.56E+00
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	3.70E+01	1.75E+00	2.14E+01
		163.89	4.61	1.35E+01		3.00E+01
		176.55	13.56	6.38E+00		1.05E+01
		273.65	12.66	-1.56E-01		1.62E+01
		340.57	48.50	5.65E-01		3.81E+00
		818.50	99.70	-6.00E-01		1.75E+00
		1048.07	79.60	2.82E-01		2.66E+00
		1235.34	19.70	2.24E+01		1.79E+01
+	CS-137	661.65	85.12	-3.69E-02	2.72E-01	2.72E-01
+	LA-138	788.74	34.00	3.25E-01	3.73E-01	6.19E-01
		1435.80	66.00	-2.00E-01		3.73E-01
+	CE-139	165.85	80.35	8.87E-02	2.40E-01	2.40E-01
+	BA-140	162.64	6.70	4.61E+00	6.93E+00	2.18E+01
		304.84	4.50	-2.28E-01		4.25E+01
		423.70	3.20	-1.15E+01		6.09E+01
		437.55	2.00	-8.81E+01		8.38E+01
		537.32	25.00	2.05E+00		6.93E+00
+	LA-140	328.77	20.50	4.28E+00	2.29E+00	9.64E+00
		487.03	45.50	3.02E+00		4.19E+00
		815.85	23.50	-1.18E+00		7.79E+00
		1596.49	95.49	-1.55E+00		2.29E+00
+	CE-141	145.44	48.40	1.75E+00	8.90E-01	8.90E-01
+	CE-143	57.36	11.80	-3.81E+08	1.04E+09	1.79E+09
		293.26	42.00	4.31E+07		1.04E+09
		664.55	5.20	7.96E+09		5.25E+09
+	CE-144	133.54	10.80	-7.01E-01	1.48E+00	1.48E+00
+	PM-144	476.78	42.00	-8.95E-02	2.05E-01	4.88E-01
		618.01	98.60	-7.32E-03		2.05E-01
		696.49	99.49	8.48E-02		2.20E-01
+	PM-145	36.85	21.70	-1.74E-01	8.81E-01	1.64E+00
		37.36	39.70	1.93E-01		8.81E-01
		42.30	15.10	-2.61E-02		1.84E+00
		72.40	2.31	-4.33E+01		1.01E+01
+	PM-146	453.90	39.94	2.09E-01	4.93E-01	4.93E-01
		735.90	14.01	1.73E-01		1.40E+00
		747.13	13.10	-7.67E-01		1.56E+00
+	ND-147	91.11	28.90	-2.60E+01	8.17E+00	8.17E+00
		531.02	13.10	5.28E+00		1.99E+01
+	PM-149	285.90	3.10	2.65E+06	2.77E+06	2.77E+06
+	EU-152	121.78	20.50	8.01E-02	7.01E-01	7.01E-01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	EU-152	244.69	5.40	-6.95E-02	7.01E-01	5.07E+00
		344.27	19.13	2.33E-01		1.01E+00
		778.89	9.20	-1.12E-01		2.16E+00
		964.01	10.40	4.34E-01		2.46E+00
		1085.78	7.22	5.01E-01		2.92E+00
		1112.02	9.60	-7.52E-01		2.04E+00
		1407.95	14.94	-2.70E-01		2.37E+00
+	GD-153	97.43	31.30	3.43E-01	5.44E-01	5.44E-01
		103.18	22.20	-5.32E-01		6.88E-01
+	EU-154	123.07	40.50	-1.33E-01	3.53E-01	3.53E-01
		723.30	19.70	-4.89E-01		9.73E-01
		873.19	11.50	-2.89E-01		1.88E+00
		996.32	10.30	3.12E-01		2.21E+00
		1004.76	17.90	5.58E-02		1.29E+00
		1274.45	35.50	2.74E-02		7.64E-01
+	EU-155	86.50	30.90	3.50E-01	6.78E-01	6.95E-01
		105.30	20.70	3.38E-01		6.78E-01
+	EU-156	811.77	10.40	4.15E+00	1.26E+01	1.26E+01
		1153.47	7.20	3.24E+01		2.66E+01
		1230.71	8.90	6.86E-01		1.76E+01
+	HO-166M	184.41	72.60	1.08E+00	3.07E-01	3.07E-01
		280.45	29.60	4.10E-02		6.74E-01
		410.94	11.10	-1.34E-01		1.85E+00
		711.69	54.10	-1.12E-01		3.51E-01
+	TM-171	66.72	0.14	1.05E+03	2.03E+02	2.03E+02
+	HF-172	81.75	4.52	-5.31E+00	1.30E+00	5.32E+00
		125.81	11.30	-5.70E-01		1.30E+00
+	LU-172	181.53	20.60	-9.76E+00	2.56E+01	5.66E+01
		810.06	16.63	-2.27E+00		8.63E+01
		912.12	15.25	1.58E+02		1.32E+02
		1093.66	62.50	7.15E+00		2.56E+01
+	LU-173	100.72	5.24	3.43E-01	1.33E+00	2.84E+00
		272.11	21.20	4.52E+00		1.33E+00
+	HF-175	343.40	84.00	7.92E-02	3.48E-01	3.48E-01
+	LU-176	88.34	13.30	3.02E+00	2.04E-01	1.51E+00
		201.83	86.00	-2.29E-02		2.20E-01
		306.78	94.00	-1.65E-02		2.04E-01
+	TA-182	67.75	41.20	4.83E+00	8.41E-01	8.41E-01
		1121.30	34.90	9.60E+00		2.26E+00
		1189.05	16.23	2.12E-01		1.67E+00
		1221.41	26.98	3.37E-01		1.15E+00
		1231.02	11.44	3.96E-01		2.73E+00
+	IR-192	308.46	29.68	-8.60E-01	5.99E-01	8.94E-01
		468.07	48.10	-2.94E-03		5.99E-01
+	HG-203	279.19	77.30	-4.26E-03	4.61E-01	4.61E-01
+	BI-207	569.67	97.72	7.59E-02	2.12E-01	2.12E-01
		1063.62	74.90	-7.82E-02		2.94E-01
+	TL-208	583.14	30.22	5.09E-01	6.33E-01	7.62E-01
		860.37	4.48	1.66E+00		5.00E+00

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	2614.66		35.85	2.82E-02	6.33E-01	6.33E-01
+	BI-210M	262.00		45.00	-8.88E-03	4.19E-01	4.19E-01
		300.00		23.00	-1.93E+01		9.78E-01
+	PB-210	46.50	*	4.25	3.02E+01	1.03E+01	1.03E+01
+	PB-211	404.84	*	2.90	6.01E+00	9.69E+00	1.12E+01
		831.96	*	2.90	8.01E+00		9.69E+00
+	BI-212	727.17		11.80	3.75E-01	1.66E+00	1.66E+00
		1620.62		2.75	-1.58E+00		7.74E+00
+	PB-212	238.63	*	44.60	6.90E-01	8.67E-01	8.67E-01
		300.09	*	3.41	6.19E+00		1.13E+01
+	BI-214	609.31	*	46.30	1.64E+01	4.99E-01	7.04E-01
		1120.29	*	15.10	1.82E+01		2.36E+00
		1764.49	*	15.80	1.71E+01		1.33E+00
		2204.22	*	4.98	1.72E+01		4.99E-01
+	PB-214	295.21	*	19.19	1.80E+01	8.20E-01	1.96E+00
		351.92	*	37.19	1.92E+01		8.20E-01
+	RN-219	401.80	*	6.50	4.91E+00	4.97E+00	4.97E+00
+	RA-223	323.87	*	3.88	4.40E+00	4.95E+00	4.95E+00
+	RA-224	240.98		3.95	2.45E+01	7.64E+00	7.64E+00
+	RA-225	40.00		31.00	-1.25E+00	6.63E+00	6.63E+00
+	RA-226	186.21	*	3.28	2.68E+01	9.28E+00	9.28E+00
+	TH-227	50.10		8.40	-1.63E+01	2.66E+00	2.66E+00
		236.00	*	11.50	5.05E+00		3.31E+00
		256.20	*	6.30	7.12E+00		4.60E+00
+	AC-228	338.32	*	11.40	1.31E+00	1.03E+00	1.72E+00
		911.07	*	27.70	9.81E-01		1.03E+00
		969.11	*	16.60	1.23E+00		1.93E+00
+	TH-230	48.44		16.90	3.83E+00	1.67E+00	1.67E+00
		62.85		4.60	2.48E+00		4.57E+00
		67.67		0.37	4.19E+02		7.30E+01
+	PA-231	283.67		1.60	1.58E+01	9.50E+00	1.30E+01
		302.67		2.30	1.39E+01		9.50E+00
+	TH-231	25.64		14.70	-1.39E+00	8.87E+00	8.87E+00
		84.21	*	6.40	1.64E+01		1.06E+01
+	PA-233	311.98		38.60	-3.12E-01	1.40E+00	1.40E+00
+	PA-234	131.20		20.40	6.06E-01	7.34E-01	7.34E-01
		733.99		8.80	9.04E-01		2.23E+00
		946.00		12.00	2.71E-01		1.89E+00
+	PA-234M	1001.03		0.92	1.06E+01	2.53E+01	2.53E+01
+	TH-234	63.29		3.80	3.53E+00	5.61E+00	5.61E+00
+	U-235	143.76		10.50	4.17E+00	1.74E+00	1.74E+00
		163.35		4.70	1.50E+00		3.34E+00
		205.31		4.70	5.50E-01		4.04E+00
+	NP-237	86.50		12.60	8.44E-01	1.68E+00	1.68E+00
+	NP-239	106.10		22.70	1.02E+04	1.12E+05	1.12E+05
		228.18		10.70	3.91E+04		3.31E+05
		277.60		14.10	-2.37E+03		2.60E+05

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54	35.90	-7.31E-01	5.49E-01	5.49E-01
+	AM-243	74.67	66.00	1.44E+00	4.22E-01	4.22E-01
+	CM-243	209.75	3.29	4.68E+00	1.39E+00	6.05E+00
		228.14	10.60	2.10E-01		1.78E+00
		277.60	14.00	-1.27E-02		1.39E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	3.11E+00	3.11E+00	3.17E-01	1.50E+00
	NA-22	1274.54		99.94	2.77E-01	2.77E-01	9.94E-03	1.30E-01
	NA-24	1368.53		99.99	1.92E+19	5.76E+18	-6.33E+18	8.96E+18
		2754.09		99.86	5.76E+18		5.22E+17	1.82E+18
	AL-26	1808.65		99.76	1.68E-01	1.68E-01	1.65E-02	7.28E-02
+	K-40	1460.81	*	10.67	3.37E+00	3.37E+00	6.57E+00	1.60E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	2.86E-01	2.85E-01	1.64E+00	1.41E-01
		78.34		96.00	2.85E-01		8.87E-01	1.41E-01
	SC-46	889.25		99.98	3.10E-01	3.10E-01	2.74E-02	1.47E-01
		1120.51		99.99	8.65E-01		3.73E+00	4.22E-01
	V-48	983.52		99.98	1.31E+00	1.31E+00	9.19E-02	6.14E-01
		1312.10		97.50	1.33E+00		-7.37E-01	6.13E-01
	CR-51	320.08		9.83	5.48E+00	5.48E+00	-3.90E-02	2.67E+00
	MN-54	834.83		99.97	2.74E-01	2.74E-01	-2.25E-02	1.31E-01
	CO-56	846.75		99.96	3.42E-01	3.42E-01	2.05E-01	1.63E-01
		1037.75		14.03	2.22E+00		-5.96E-01	1.04E+00
		1238.25		67.00	9.36E-01		2.27E+00	4.50E-01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CO-56	1771.40		15.51	1.39E+00	3.42E-01	-1.47E+00	5.94E-01
		2598.48		16.90	6.31E-01		-1.71E-01	1.99E-01
	CO-57	122.06		85.51	1.86E-01	1.86E-01	2.12E-02	9.12E-02
		136.48		10.60	1.53E+00		-7.92E-01	7.52E-01
	CO-58	810.76		99.40	3.01E-01	3.01E-01	5.58E-02	1.42E-01
	FE-59	1099.22		56.50	7.39E-01	7.39E-01	7.02E-02	3.44E-01
		1291.56		43.20	1.19E+00		7.05E-01	5.60E-01
	CO-60	1173.22		100.00	2.29E-01	2.29E-01	5.44E-02	1.06E-01
		1332.49		100.00	2.46E-01		1.02E-03	1.14E-01
	ZN-65	1115.52		50.75	5.07E-01	5.07E-01	-2.28E-02	2.37E-01
	GA-67	93.31		35.70	3.18E+03	3.18E+03	4.65E+03	1.57E+03
		208.95		2.24	5.68E+04		1.70E+04	2.79E+04
		300.22		16.00	9.08E+03		-1.80E+05	4.44E+03
	SE-75	121.11		16.70	1.08E+00	3.12E-01	2.71E-01	5.32E-01
		136.00		59.20	3.12E-01		-9.23E-02	1.53E-01
		264.65		59.80	3.95E-01		-8.56E-03	1.93E-01
		279.53		25.20	9.77E-01		9.75E-02	4.77E-01
		400.65		11.40	2.60E+00		7.09E-01	1.27E+00
	RB-82	776.52		13.00	4.79E+00	4.79E+00	1.72E-01	2.26E+00
	RB-83	520.41		46.00	5.40E-01	5.40E-01	9.57E-02	2.58E-01
		529.64		30.30	8.92E-01		4.96E-02	4.28E-01
		552.65		16.40	1.61E+00		2.25E-01	7.68E-01
	KR-85	513.99		0.43	5.13E+01	5.13E+01	3.83E+01	2.48E+01
	SR-85	513.99		99.27	3.46E-01	3.46E-01	2.59E-01	1.67E-01
	Y-88	898.02		93.40	3.19E-01	2.09E-01	6.63E-02	1.51E-01
		1836.01		99.38	2.09E-01		6.02E-02	8.99E-02
	NB-93M	16.57		9.43	3.19E+02	3.19E+02	1.66E+03	1.58E+02
	NB-94	702.63		100.00	2.09E-01	2.09E-01	2.37E-02	9.97E-02
		871.10		100.00	2.20E-01		3.21E-02	1.04E-01
	NB-95	765.79		99.81	7.50E-01	7.50E-01	1.46E+00	3.63E-01
	NB-95M	235.69	*	25.00	4.20E+03	4.20E+03	6.42E+03	2.08E+03
	ZR-95	724.18		43.70	6.96E-01	5.87E-01	-1.55E-01	3.30E-01
		756.72		55.30	5.87E-01		2.36E-02	2.78E-01
	MO-99	181.06		6.20	8.62E+04	5.06E+04	-2.70E+04	4.23E+04
		739.58		12.80	5.06E+04		-7.75E+03	2.40E+04
		778.00		4.50	1.48E+05		5.89E+04	7.02E+04
	RU-103	497.08		89.00	4.15E-01	4.15E-01	-9.92E-02	1.99E-01
	RU-106	621.84		9.80	2.02E+00	2.02E+00	-4.56E-01	9.62E-01
	AG-108M	433.93		89.90	2.21E-01	2.10E-01	1.09E-01	1.07E-01
		614.37		90.40	2.97E-01		4.96E-02	1.44E-01
		722.95		90.50	2.10E-01		-1.05E-01	9.93E-02
+	CD-109	88.03	*	3.72	1.95E+01	1.95E+01	2.70E+01	9.73E+00
	AG-110M	657.75		93.14	2.43E-01	2.43E-01	9.52E-02	1.16E-01
		677.61		10.53	1.87E+00		-1.06E+00	8.82E-01
		706.67		16.46	1.43E+00		1.12E-01	6.82E-01
		763.93		21.98	1.12E+00		6.71E-02	5.34E-01
		884.67		71.63	3.35E-01		-4.99E-02	1.58E-01
		1384.27		23.94	1.32E+00		-2.21E+00	6.18E-01
	CD-113M	263.70		0.02	7.90E+02	7.90E+02	-1.76E+01	3.85E+02
	SN-113	255.12		1.93	1.45E+01	3.99E-01	1.33E+01	7.09E+00
		391.69		64.90	3.99E-01		2.61E-02	1.93E-01
	TE123M	159.00		84.10	2.37E-01	2.37E-01	-3.74E-02	1.16E-01
	SB-124	602.71		97.87	3.43E-01	3.43E-01	3.73E-02	1.64E-01

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SB-124	645.85		7.26	4.01E+00	3.43E-01	1.61E+00	1.90E+00
		722.78		11.10	2.75E+00		-1.38E+00	1.30E+00
		1691.02		49.00	6.55E-01		-1.40E-01	2.93E-01
	I-125	35.49		6.49	9.69E+00	9.69E+00	-2.56E+00	4.75E+00
	SB-125	176.33		6.89	2.39E+00	7.39E-01	4.97E-01	1.17E+00
		427.89		29.33	7.39E-01		5.14E-01	3.58E-01
		463.38		10.35	1.95E+00		4.44E-01	9.39E-01
		600.56		17.80	1.18E+00		1.46E-01	5.64E-01
		635.90		11.32	1.69E+00		7.89E-01	8.02E-01
	SB-126	414.70		83.30	2.46E+00	2.00E+00	-5.01E-01	1.19E+00
		666.33		99.60	2.45E+00		2.67E+00	1.18E+00
		695.00		99.60	2.00E+00		-3.42E-01	9.49E-01
		720.50		53.80	3.57E+00		-2.02E-02	1.69E+00
+	SN-126	87.57	*	37.00	1.85E+00	1.85E+00	2.55E+00	9.19E-01
	SB-127	473.00		25.00	1.26E+03	8.88E+02	1.15E+02	6.06E+02
		685.20		35.70	8.88E+02		-1.59E+02	4.21E+02
		783.80		14.70	2.58E+03		1.78E+03	1.23E+03
	I-129	29.78		57.00	1.25E+00	1.25E+00	-3.21E-01	6.14E-01
		33.60		13.20	3.58E+00		1.37E+00	1.76E+00
		39.58		7.52	4.05E+00		-7.62E-01	1.99E+00
	I-131	284.30		6.05	1.21E+02	8.11E+00	1.47E+02	5.92E+01
		364.48		81.20	8.11E+00		1.18E+00	3.93E+00
		636.97		7.26	9.02E+01		4.06E+01	4.29E+01
		722.89		1.80	3.70E+02		-1.86E+02	1.75E+02
	TE-132	49.72		13.10	1.12E+04	1.39E+03	-6.87E+04	5.51E+03
		228.16		88.00	1.39E+03		1.64E+02	6.79E+02
	BA-133	81.00		33.00	6.47E-01	5.97E-01	-6.25E+00	3.19E-01
		302.84		17.80	1.24E+00		1.81E+00	6.05E-01
		356.01		60.00	5.97E-01		-2.90E-02	2.94E-01
	I-133	529.87		86.30	4.86E+13	4.86E+13	2.70E+12	2.33E+13
	CS-134	563.23		8.38	2.44E+00	2.37E-01	8.54E-01	1.17E+00
		569.32		15.43	1.37E+00		-3.35E-01	6.54E-01
		604.70		97.60	3.26E-01		9.24E-04	1.58E-01
		795.84		85.40	2.37E-01		7.51E-02	1.12E-01
		801.93		8.73	2.34E+00		-3.15E+00	1.10E+00
	CS-135	268.24		16.00	1.56E+00	1.56E+00	3.26E+00	7.67E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.14E+01	1.75E+00	3.70E+01	1.05E+01
		163.89		4.61	3.00E+01		1.35E+01	1.47E+01
		176.55		13.56	1.05E+01		6.38E+00	5.16E+00
		273.65		12.66	1.62E+01		-1.56E-01	7.95E+00
		340.57		48.50	3.81E+00		5.65E-01	1.85E+00
		818.50		99.70	1.75E+00		-6.00E-01	8.24E-01
		1048.07		79.60	2.66E+00		2.82E-01	1.25E+00
		1235.34		19.70	1.79E+01		2.24E+01	8.59E+00
	CS-137	661.65		85.12	2.72E-01	2.72E-01	-3.69E-02	1.30E-01
	LA-138	788.74		34.00	6.19E-01	3.73E-01	3.25E-01	2.93E-01
		1435.80		66.00	3.73E-01		-2.00E-01	1.72E-01
	CE-139	165.85		80.35	2.40E-01	2.40E-01	8.87E-02	1.18E-01
	BA-140	162.64		6.70	2.18E+01	6.93E+00	4.61E+00	1.07E+01
		304.84		4.50	4.25E+01		-2.28E-01	2.08E+01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-140	423.70	3.20	6.09E+01	6.93E+00	-1.15E+01	2.95E+01
	437.55	2.00	8.38E+01		-8.81E+01	4.03E+01
	537.32	25.00	6.93E+00		2.05E+00	3.31E+00
LA-140	328.77	20.50	9.64E+00	2.29E+00	4.28E+00	4.70E+00
	487.03	45.50	4.19E+00		3.02E+00	2.02E+00
	815.85	23.50	7.79E+00		-1.18E+00	3.67E+00
	1596.49	95.49	2.29E+00		-1.55E+00	1.05E+00
CE-141	145.44	48.40	8.90E-01	8.90E-01	1.75E+00	4.38E-01
CE-143	57.36	11.80	1.79E+09	1.04E+09	-3.81E+08	8.81E+08
	293.26	42.00	1.04E+09		4.31E+07	5.13E+08
	664.55	5.20	5.25E+09		7.96E+09	2.52E+09
CE-144	133.54	10.80	1.48E+00	1.48E+00	-7.01E-01	7.28E-01
PM-144	476.78	42.00	4.88E-01	2.05E-01	-8.95E-02	2.35E-01
	618.01	98.60	2.05E-01		-7.32E-03	9.75E-02
	696.49	99.49	2.20E-01		8.48E-02	1.05E-01
PM-145	36.85	21.70	1.64E+00	8.81E-01	-1.74E-01	8.06E-01
	37.36	39.70	8.81E-01		1.93E-01	4.32E-01
	42.30	15.10	1.84E+00		-2.61E-02	9.05E-01
	72.40	2.31	1.01E+01		-4.33E+01	4.99E+00
PM-146	453.90	39.94	4.93E-01	4.93E-01	2.09E-01	2.38E-01
	735.90	14.01	1.40E+00		1.73E-01	6.60E-01
	747.13	13.10	1.56E+00		-7.67E-01	7.36E-01
ND-147	91.11	28.90	8.17E+00	8.17E+00	-2.60E+01	4.03E+00
	531.02	13.10	1.99E+01		5.28E+00	9.53E+00
PM-149	285.90	3.10	2.77E+06	2.77E+06	2.65E+06	1.35E+06
EU-152	121.78	20.50	7.01E-01	7.01E-01	8.01E-02	3.44E-01
	244.69	5.40	5.07E+00		-6.95E-02	2.50E+00
	344.27	19.13	1.01E+00		2.33E-01	4.93E-01
	778.89	9.20	2.16E+00		-1.12E-01	1.02E+00
	964.01	10.40	2.46E+00		4.34E-01	1.17E+00
	1085.78	7.22	2.92E+00		5.01E-01	1.36E+00
	1112.02	9.60	2.04E+00		-7.52E-01	9.42E-01
	1407.95	14.94	2.37E+00		-2.70E-01	1.12E+00
GD-153	97.43	31.30	5.44E-01	5.44E-01	3.43E-01	2.68E-01
	103.18	22.20	6.88E-01		-5.32E-01	3.38E-01
EU-154	123.07	40.50	3.53E-01	3.53E-01	-1.33E-01	1.73E-01
	723.30	19.70	9.73E-01		-4.89E-01	4.60E-01
	873.19	11.50	1.88E+00		-2.89E-01	8.86E-01
	996.32	10.30	2.21E+00		3.12E-01	1.04E+00
	1004.76	17.90	1.29E+00		5.58E-02	6.06E-01
	1274.45	35.50	7.64E-01		2.74E-02	3.58E-01
EU-155	86.50	30.90	6.95E-01	6.78E-01	3.50E-01	3.43E-01
	105.30	20.70	6.78E-01		3.38E-01	3.33E-01
EU-156	811.77	10.40	1.26E+01	1.26E+01	4.15E+00	5.93E+00
	1153.47	7.20	2.66E+01		3.24E+01	1.26E+01
	1230.71	8.90	1.76E+01		6.86E-01	8.18E+00
HO-166M	184.41	72.60	3.07E-01	3.07E-01	1.08E+00	1.51E-01
	280.45	29.60	6.74E-01		4.10E-02	3.29E-01
	410.94	11.10	1.85E+00		-1.34E-01	8.96E-01
	711.69	54.10	3.51E-01		-1.12E-01	1.66E-01
TM-171	66.72	0.14	2.03E+02	2.03E+02	1.05E+03	1.01E+02
HF-172	81.75	4.52	5.32E+00	1.30E+00	-5.31E+00	2.63E+00
	125.81	11.30	1.30E+00		-5.70E-01	6.38E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LU-172	181.53		20.60	5.66E+01	2.56E+01	-9.76E+00	2.77E+01
		810.06		16.63	8.63E+01		-2.27E+00	4.07E+01
		912.12		15.25	1.32E+02		1.58E+02	6.28E+01
		1093.66		62.50	2.56E+01		7.15E+00	1.19E+01
	LU-173	100.72		5.24	2.84E+00	1.33E+00	3.43E-01	1.39E+00
		272.11		21.20	1.33E+00		4.52E+00	6.55E-01
	HF-175	343.40		84.00	3.48E-01	3.48E-01	7.92E-02	1.69E-01
	LU-176	88.34		13.30	1.51E+00	2.04E-01	3.02E+00	7.45E-01
		201.83		86.00	2.20E-01		-2.29E-02	1.08E-01
		306.78		94.00	2.04E-01		-1.65E-02	9.95E-02
	TA-182	67.75		41.20	8.41E-01	8.41E-01	4.83E+00	4.16E-01
		1121.30		34.90	2.26E+00		9.60E+00	1.10E+00
		1189.05		16.23	1.67E+00		2.12E-01	7.74E-01
		1221.41		26.98	1.15E+00		3.37E-01	5.36E-01
		1231.02		11.44	2.73E+00		3.96E-01	1.27E+00
	IR-192	308.46		29.68	8.94E-01	5.99E-01	-8.60E-01	4.34E-01
		468.07		48.10	5.99E-01		-2.94E-03	2.89E-01
	HG-203	279.19		77.30	4.61E-01	4.61E-01	-4.26E-03	2.25E-01
	BI-207	569.67		97.72	2.12E-01	2.12E-01	7.59E-02	1.02E-01
		1063.62		74.90	2.94E-01		-7.82E-02	1.38E-01
	TL-208	583.14		30.22	7.62E-01	6.33E-01	5.09E-01	3.67E-01
		860.37		4.48	5.00E+00		1.66E+00	2.36E+00
		2614.66		35.85	6.33E-01		2.82E-02	2.78E-01
	BI-210M	262.00		45.00	4.19E-01	4.19E-01	-8.88E-03	2.04E-01
		300.00		23.00	9.78E-01		-1.93E+01	4.78E-01
+	PB-210	46.50	*	4.25	1.03E+01	1.03E+01	3.02E+01	5.08E+00
+	PB-211	404.84	*	2.90	1.12E+01	9.69E+00	6.01E+00	5.49E+00
		831.96	*	2.90	9.69E+00		8.01E+00	4.64E+00
	BI-212	727.17		11.80	1.66E+00	1.66E+00	3.75E-01	7.87E-01
		1620.62		2.75	7.74E+00		-1.58E+00	3.51E+00
+	PB-212	238.63	*	44.60	8.67E-01	8.67E-01	6.90E-01	4.29E-01
		300.09	*	3.41	1.13E+01		6.19E+00	5.60E+00
+	BI-214	609.31	*	46.30	7.04E-01	4.99E-01	1.64E+01	3.42E-01
		1120.29	*	15.10	2.36E+00		1.82E+01	1.13E+00
		1764.49	*	15.80	1.33E+00		1.71E+01	5.98E-01
		2204.22	*	4.98	4.99E-01		1.72E+01	0.00E+00
+	PB-214	295.21	*	19.19	1.96E+00	8.20E-01	1.80E+01	9.68E-01
		351.92	*	37.19	8.20E-01		1.92E+01	4.02E-01
+	RN-219	401.80	*	6.50	4.97E+00	4.97E+00	4.91E+00	2.43E+00
+	RA-223	323.87	*	3.88	4.95E+00	4.95E+00	4.40E+00	2.41E+00
	RA-224	240.98		3.95	7.64E+00	7.64E+00	2.45E+01	3.77E+00
	RA-225	40.00		31.00	6.63E+00	6.63E+00	-1.25E+00	3.25E+00
+	RA-226	186.21	*	3.28	9.28E+00	9.28E+00	2.68E+01	4.59E+00
+	TH-227	50.10		8.40	2.66E+00	2.66E+00	-1.63E+01	1.31E+00
		236.00	*	11.50	3.31E+00		5.05E+00	1.64E+00
		256.20	*	6.30	4.60E+00		7.12E+00	2.27E+00
+	AC-228	338.32	*	11.40	1.72E+00	1.03E+00	1.31E+00	8.35E-01
		911.07	*	27.70	1.03E+00		9.81E-01	4.93E-01
		969.11	*	16.60	1.93E+00		1.23E+00	9.23E-01
	TH-230	48.44		16.90	1.67E+00	1.67E+00	3.83E+00	8.25E-01
		62.85		4.60	4.57E+00		2.48E+00	2.26E+00
		67.67		0.37	7.30E+01		4.19E+02	3.61E+01
	PA-231	283.67		1.60	1.30E+01	9.50E+00	1.58E+01	6.36E+00

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PA-231	302.67		2.30	9.50E+00	9.50E+00	1.39E+01	4.64E+00
+	TH-231	25.64		14.70	8.87E+00	8.87E+00	-1.39E+00	4.35E+00
		84.21	*	6.40	1.06E+01		1.64E+01	5.30E+00
	PA-233	311.98		38.60	1.40E+00	1.40E+00	-3.12E-01	6.83E-01
	PA-234	131.20		20.40	7.34E-01	7.34E-01	6.06E-01	3.60E-01
		733.99		8.80	2.23E+00		9.04E-01	1.05E+00
		946.00		12.00	1.89E+00		2.71E-01	8.91E-01
	PA-234M	1001.03		0.92	2.53E+01	2.53E+01	1.06E+01	1.19E+01
	TH-234	63.29		3.80	5.61E+00	5.61E+00	3.53E+00	2.77E+00
	U-235	143.76		10.50	1.74E+00	1.74E+00	4.17E+00	8.57E-01
		163.35		4.70	3.34E+00		1.50E+00	1.64E+00
		205.31		4.70	4.04E+00		5.50E-01	1.98E+00
	NP-237	86.50		12.60	1.68E+00	1.68E+00	8.44E-01	8.29E-01
	NP-239	106.10		22.70	1.12E+05	1.12E+05	1.02E+04	5.52E+04
		228.18		10.70	3.31E+05		3.91E+04	1.62E+05
		277.60		14.10	2.60E+05		-2.37E+03	1.27E+05
	AM-241	59.54		35.90	5.49E-01	5.49E-01	-7.31E-01	2.70E-01
	AM-243	74.67		66.00	4.22E-01	4.22E-01	1.44E+00	2.09E-01
	CM-243	209.75		3.29	6.05E+00	1.39E+00	4.68E+00	2.97E+00
		228.14		10.60	1.78E+00		2.10E-01	8.69E-01
		277.60		14.00	1.39E+00		-1.27E-02	6.80E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506114-20

FEEBRIS1D-09.088-089

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-09.088-089

Elapsed Live time: 3600
Elapsed Real Time: 3618

Channel								
1:	0	0	0	0	0	0	0	0
9:	23	301	347	427	489	323	686	658
17:	269	385	286	179	162	193	202	169
25:	167	172	189	250	165	182	160	220
33:	220	157	176	192	195	188	167	206
41:	188	213	200	226	233	436	765	279
49:	217	274	263	200	256	252	223	241
57:	230	250	282	297	300	302	408	424
65:	356	366	577	1335	657	338	339	337
73:	394	478	1031	708	1214	1195	390	429
81:	565	504	414	836	529	354	497	581
89:	376	368	287	233	328	345	412	297
97:	176	270	230	210	205	170	192	182
105:	183	223	180	150	191	171	189	197
113:	214	213	173	172	192	190	190	182
121:	180	185	204	192	156	208	191	145
129:	191	186	206	181	210	163	181	161
137:	186	195	172	185	212	197	229	372
145:	333	205	185	164	161	186	198	200
153:	216	291	320	213	186	201	167	149
161:	169	168	162	168	173	174	156	154
169:	168	129	169	166	144	126	189	158
177:	154	170	148	158	152	162	176	146
185:	190	462	495	203	149	149	153	151
193:	149	144	152	150	154	152	127	133
201:	121	134	125	149	133	115	123	132
209:	140	150	167	129	123	120	119	130
217:	102	109	113	99	112	119	105	103
225:	121	102	98	111	107	111	106	108
233:	124	116	151	301	215	153	214	150
241:	197	590	412	105	74	93	89	82
249:	88	89	105	98	96	118	120	143
257:	179	102	117	103	63	83	83	77
265:	84	76	88	93	180	282	242	182
273:	86	102	93	86	89	92	78	77
281:	77	76	92	120	85	116	90	78
289:	59	74	74	63	76	155	941	981
297:	142	64	80	121	98	85	109	78
305:	98	60	69	60	62	59	59	54
313:	74	75	69	64	77	63	64	59
321:	61	50	78	91	98	71	57	67
329:	74	120	81	54	66	80	62	61
337:	51	96	97	62	47	59	59	68
345:	48	68	53	61	70	89	592	1999
353:	1013	78	48	51	52	39	44	45
361:	49	49	61	53	49	36	42	54

369:	48	47	57	56	51	54	45	53

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Channel								
377:	35	42	37	58	54	51	48	41
385:	36	52	62	54	66	53	52	45
393:	54	42	40	44	44	52	46	43
401:	58	120	68	70	87	68	43	55
409:	44	52	49	41	47	46	45	50
417:	51	46	41	63	55	50	27	40
425:	48	48	58	46	47	33	48	42
433:	41	52	32	32	37	25	38	33
441:	28	36	45	33	53	45	33	36
449:	34	39	37	37	36	34	43	30
457:	32	26	28	27	28	39	43	44
465:	30	34	40	34	36	38	28	34
473:	21	43	24	26	24	28	31	41
481:	43	31	25	34	33	40	42	34
489:	28	31	27	25	24	26	23	22
497:	33	23	29	22	33	27	16	25
505:	27	30	29	23	38	54	59	66
513:	32	25	34	28	17	20	22	23
521:	27	27	27	25	20	21	35	18
529:	16	35	24	34	26	31	24	16
537:	21	23	22	29	23	14	24	21
545:	25	25	22	26	23	19	24	21
553:	21	31	21	28	19	22	17	23
561:	21	28	28	32	21	20	29	17
569:	28	36	26	25	28	31	21	19
577:	24	28	19	35	40	30	42	38
585:	19	22	28	25	20	22	17	20
593:	31	24	13	23	19	19	25	25
601:	26	25	24	22	26	25	38	222
609:	1043	936	164	19	19	19	17	21
617:	24	18	11	18	22	21	17	18
625:	18	20	17	24	18	23	12	13
633:	16	20	14	22	18	21	12	17
641:	13	15	16	16	18	12	14	21
649:	16	14	11	17	15	18	24	16
657:	22	24	11	20	21	25	22	30
665:	52	36	28	17	13	13	16	15
673:	25	14	17	17	8	9	17	12
681:	17	15	18	13	16	14	15	19
689:	18	20	20	18	23	20	19	15
697:	10	15	23	12	12	17	24	28
705:	25	14	15	19	18	13	18	13
713:	14	12	17	18	17	11	13	18
721:	18	18	9	13	13	13	23	21
729:	15	10	15	13	23	13	16	9
737:	17	13	11	14	13	29	18	18
745:	19	14	11	19	13	14	17	15
753:	22	18	17	21	11	15	14	17
761:	13	15	17	14	12	20	35	108
769:	87	36	19	17	13	16	16	16
777:	13	15	14	15	14	10	10	16
785:	22	28	26	7	14	14	8	11
793:	15	22	11	6	14	9	13	11

801:	12	16	12	10	17	43	18	14

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Channel								
809:	16	13	6	13	13	17	13	12
817:	9	12	11	15	17	17	13	16
825:	13	15	13	9	15	19	20	30
833:	24	19	19	10	17	21	29	19
841:	16	14	17	21	15	14	22	14
849:	20	17	10	12	16	10	12	11
857:	11	17	12	14	22	18	11	13
865:	14	16	12	15	16	18	9	13
873:	12	16	14	11	12	15	12	16
881:	13	13	15	15	6	12	17	12
889:	16	16	8	15	17	13	14	17
897:	14	17	11	13	15	13	10	13
905:	16	10	16	13	12	31	34	35
913:	14	10	16	11	8	18	10	13
921:	15	10	9	10	14	12	11	12
929:	14	13	11	17	27	58	30	17
937:	17	17	11	15	17	12	9	9
945:	16	16	17	13	11	9	11	18
953:	11	10	18	13	11	10	13	15
961:	14	11	18	26	13	11	19	19
969:	23	11	13	9	20	10	7	10
977:	13	7	15	17	9	9	8	15
985:	9	11	10	11	10	9	15	9
993:	17	16	11	6	10	11	11	8
1001:	17	17	16	7	16	6	10	11
1009:	10	8	18	2	10	17	12	7
1017:	12	11	10	13	10	10	10	7
1025:	12	18	10	8	10	9	16	16
1033:	10	12	10	12	8	14	8	11
1041:	7	13	11	9	17	17	12	12
1049:	8	10	10	11	14	8	9	17
1057:	14	8	11	5	10	12	14	10
1065:	7	11	11	15	8	8	13	17
1073:	18	8	6	5	10	13	14	6
1081:	7	7	8	10	10	12	10	7
1089:	3	11	5	14	10	6	9	13
1097:	8	13	10	6	5	10	9	10
1105:	12	12	13	9	4	10	5	10
1113:	4	7	9	8	12	19	107	234
1121:	127	28	12	8	10	8	11	6
1129:	7	9	3	12	10	17	6	5
1137:	14	10	11	8	4	10	7	10
1145:	13	7	15	6	11	6	16	10
1153:	5	23	27	22	3	6	10	8
1161:	8	11	10	11	11	9	10	6
1169:	14	5	10	6	9	12	11	8
1177:	6	7	6	7	11	14	10	7
1185:	6	6	10	7	5	6	5	13
1193:	9	5	8	6	5	7	6	1
1201:	6	11	7	8	6	5	8	14
1209:	9	12	10	9	13	14	5	4
1217:	12	8	8	7	10	14	10	9
1225:	8	7	6	5	13	11	7	11

1233:	10	9	8	20	42	89	45	9

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Channel								
1241:	11	4	6	8	14	8	5	8
1249:	7	12	9	16	10	11	8	7
1257:	9	9	6	9	2	3	7	5
1265:	5	7	8	4	9	5	9	6
1273:	12	4	13	9	8	11	5	9
1281:	20	7	4	4	3	4	8	9
1289:	9	9	6	7	13	7	9	5
1297:	10	10	9	9	4	6	7	14
1305:	6	12	4	4	5	3	4	5
1313:	9	6	6	4	5	8	3	4
1321:	5	4	10	6	4	7	3	1
1329:	7	11	4	6	7	8	9	4
1337:	6	9	4	5	8	7	15	8
1345:	7	2	4	3	7	5	9	5
1353:	5	8	6	7	4	4	7	6
1361:	8	7	8	7	9	3	9	3
1369:	13	3	7	7	11	6	8	23
1377:	43	39	18	7	5	4	12	9
1385:	13	8	9	7	7	3	11	7
1393:	6	6	10	9	4	4	2	15
1401:	23	22	8	7	8	6	27	41
1409:	12	4	5	5	9	7	6	8
1417:	2	6	7	3	3	6	4	8
1425:	6	8	2	4	7	10	7	6
1433:	5	3	7	7	7	5	5	8
1441:	7	9	5	10	2	3	6	5
1449:	5	4	2	13	4	6	11	4
1457:	5	9	17	36	47	17	9	6
1465:	10	2	5	8	3	4	3	5
1473:	8	10	8	11	8	4	8	3
1481:	3	1	6	9	6	4	11	8
1489:	7	2	8	10	2	5	8	10
1497:	8	6	7	8	2	3	8	6
1505:	9	8	10	17	30	22	6	10
1513:	4	6	6	6	8	10	2	9
1521:	6	3	8	3	7	5	6	6
1529:	4	4	7	7	6	11	6	6
1537:	6	5	9	2	4	7	15	11
1545:	6	6	5	6	2	11	2	8
1553:	4	8	2	4	7	4	6	9
1561:	6	3	5	5	7	5	6	3
1569:	5	7	4	4	7	5	5	5
1577:	3	3	2	9	6	15	11	9
1585:	2	3	8	5	8	6	10	1
1593:	4	7	3	3	5	8	4	4
1601:	6	5	3	5	2	9	5	4
1609:	4	2	4	5	4	2	3	2
1617:	5	4	1	2	7	3	2	5
1625:	7	4	5	2	3	7	6	9
1633:	2	3	1	2	3	1	2	3
1641:	5	2	4	3	0	5	2	4
1649:	2	1	1	4	1	1	5	5
1657:	3	5	4	13	9	5	6	5

1665:	1	2	3	2	2	1	4	2

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Channel								
1673:	2	1	3	1	2	3	2	1
1681:	2	4	5	6	4	2	0	3
1689:	2	1	4	5	2	4	4	1
1697:	4	3	1	3	4	2	1	2
1705:	4	2	3	2	1	5	2	1
1713:	4	2	3	3	4	5	1	3
1721:	2	2	0	3	4	0	7	29
1729:	28	24	6	3	1	3	3	3
1737:	1	3	1	3	0	3	0	0
1745:	6	2	3	3	1	1	2	1
1753:	1	2	2	5	3	3	1	2
1761:	7	17	83	131	88	25	2	0
1769:	2	2	1	2	1	1	1	1
1777:	0	4	0	1	4	4	4	3
1785:	3	2	1	3	1	4	4	5
1793:	1	2	3	2	1	1	1	4
1801:	0	1	2	2	2	1	4	2
1809:	2	2	0	0	4	1	0	0
1817:	2	3	1	0	1	1	2	1
1825:	2	3	1	2	1	1	1	2
1833:	1	1	2	1	0	3	2	1
1841:	0	0	1	3	1	11	21	7
1849:	5	2	6	0	2	0	1	0
1857:	3	3	1	1	2	2	2	1
1865:	3	0	0	4	0	3	3	1
1873:	5	2	1	1	1	1	1	1
1881:	3	2	3	0	3	3	0	0
1889:	2	6	1	3	1	4	4	1
1897:	4	2	1	1	0	2	1	2
1905:	3	2	3	2	1	0	2	1
1913:	3	3	5	1	2	1	1	1
1921:	1	2	2	3	1	0	1	1
1929:	1	2	1	4	1	4	1	7
1937:	5	3	2	3	2	5	0	0
1945:	0	3	3	2	1	0	6	0
1953:	1	1	1	1	2	4	1	2
1961:	1	0	3	2	0	2	0	1
1969:	0	1	3	2	0	3	2	1
1977:	2	1	1	0	2	0	3	3
1985:	1	0	2	0	1	2	0	1
1993:	0	0	7	1	1	3	0	1
2001:	3	0	1	3	1	2	1	4
2009:	2	3	1	1	0	2	0	2
2017:	3	4	0	2	3	1	2	2
2025:	0	1	0	2	1	5	1	0
2033:	3	1	2	2	3	0	0	0
2041:	1	2	1	2	2	2	0	1
2049:	0	0	0	0	2	1	3	1
2057:	0	3	1	0	2	1	0	1
2065:	1	0	0	0	3	2	1	1
2073:	0	0	3	2	0	0	1	0
2081:	0	0	2	2	1	1	0	1
2089:	0	1	0	2	2	0	1	1

2097:	1	1	0	0	1	1	0	4

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Channel								
2105:	1	0	0	0	3	2	0	1
2113:	3	0	3	4	8	11	9	1
2121:	0	0	1	1	1	1	3	0
2129:	0	2	1	0	2	1	3	4
2137:	1	0	1	0	0	2	2	0
2145:	0	1	2	1	1	1	1	0
2153:	1	1	2	2	1	0	1	2
2161:	1	1	2	0	1	2	0	0
2169:	1	1	0	0	0	1	0	1
2177:	2	3	2	1	0	0	0	0
2185:	0	2	0	0	0	0	1	2
2193:	2	0	1	0	0	0	3	1
2201:	1	9	29	32	14	4	0	0
2209:	4	1	1	1	0	2	1	2
2217:	1	0	3	0	1	1	3	0
2225:	0	0	1	1	0	0	1	1
2233:	0	0	2	0	2	0	2	0
2241:	0	0	0	1	0	0	2	0
2249:	0	0	0	1	1	0	1	1
2257:	2	0	1	0	0	2	1	0
2265:	1	0	1	0	1	2	0	0
2273:	0	0	1	1	0	0	1	1
2281:	1	0	1	1	2	1	0	1
2289:	0	1	1	1	0	0	0	1
2297:	1	0	0	0	0	1	0	1
2305:	2	0	0	0	0	0	1	1
2313:	2	0	1	0	1	0	1	1
2321:	2	0	0	0	0	0	1	0
2329:	1	0	2	2	1	0	1	0
2337:	0	1	1	0	0	0	0	2
2345:	0	0	0	0	1	0	0	0
2353:	0	0	0	2	0	0	0	0
2361:	1	0	0	2	0	0	1	0
2369:	0	0	1	1	0	0	0	0
2377:	1	0	0	0	0	1	0	1
2385:	1	0	0	0	0	1	0	2
2393:	1	0	1	0	1	1	0	0
2401:	0	2	0	0	1	0	1	0
2409:	1	0	0	0	0	0	0	1
2417:	0	1	1	0	0	1	0	0
2425:	1	1	0	0	1	1	0	0
2433:	0	0	0	1	2	0	0	1
2441:	0	1	0	0	1	4	8	5
2449:	0	0	0	0	0	0	0	1
2457:	0	0	0	0	0	0	0	1
2465:	0	0	1	0	0	0	1	0
2473:	0	0	0	0	0	0	0	1
2481:	0	0	0	0	0	1	1	1
2489:	1	1	2	0	0	0	0	0
2497:	1	0	0	0	0	0	0	0
2505:	0	0	0	0	1	0	0	0
2513:	0	1	0	0	0	0	1	0
2521:	0	1	2	0	0	2	1	1

2529:	0	1	0	0	0	0	0	1

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Channel							
2537:	0	0	1	0	0	0	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	1	0	2	0	0	0
2561:	0	0	0	0	0	1	0	0
2569:	0	0	0	1	0	0	0	0
2577:	1	1	0	0	0	0	0	0
2585:	0	0	0	1	0	0	0	0
2593:	1	0	0	0	0	0	0	0
2601:	1	0	0	1	0	0	0	0
2609:	1	0	2	3	2	5	5	0
2617:	1	0	0	0	0	1	0	0
2625:	0	0	1	0	0	0	0	0
2633:	0	1	0	0	0	0	0	0
2641:	0	0	2	0	0	1	0	1
2649:	0	0	0	0	0	2	0	1
2657:	0	1	0	0	0	0	0	0
2665:	0	0	0	0	0	1	0	1
2673:	0	1	0	0	1	0	0	0
2681:	0	0	1	0	0	1	1	0
2689:	0	1	1	0	1	0	1	0
2697:	2	0	0	0	0	0	0	0
2705:	1	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	1	0	0	0	1
2729:	0	1	0	0	0	0	1	0
2737:	0	0	0	0	0	0	0	0
2745:	0	0	1	0	0	1	0	0
2753:	0	0	0	0	0	0	0	0
2761:	0	1	0	0	0	0	0	0
2769:	1	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	0	0
2785:	0	1	0	0	0	0	0	3
2793:	0	0	1	0	0	0	1	0
2801:	0	1	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	1	1	0	0	1	0	0	0
2833:	0	0	0	0	0	0	1	0
2841:	0	0	0	0	0	0	0	0
2849:	1	0	0	0	0	0	0	0
2857:	0	1	0	0	0	0	0	1
2865:	1	0	0	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	1	0	0	0
2897:	0	0	0	1	0	0	0	1
2905:	0	0	0	0	0	1	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	1	0	0	1	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	1	0	0
2953:	0	1	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

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Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	1	0	0	0	0	0	0	0
2993:	0	1	0	0	1	1	0	0
3001:	0	0	0	0	0	0	1	0
3009:	0	0	0	0	0	0	0	0
3017:	1	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	1	0	0	0	0	0	0	0
3041:	1	0	0	0	0	0	0	0
3049:	1	0	0	1	0	1	0	0
3057:	0	0	1	0	0	0	0	0
3065:	0	0	0	1	0	0	0	0
3073:	2	0	0	0	0	0	0	0
3081:	1	1	0	1	0	0	0	0
3089:	0	1	0	1	1	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	1	0	0	0	0	0
3121:	0	0	0	0	0	1	0	0
3129:	0	0	0	0	1	0	0	0
3137:	0	0	0	0	1	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	1	0	0	0	0	2
3177:	0	1	0	0	0	0	0	1
3185:	0	0	0	0	0	0	1	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	1	0	0
3209:	1	0	0	1	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	1	0	0	0	0
3241:	1	0	0	0	0	0	0	0
3249:	0	1	0	0	0	1	0	1
3257:	1	0	0	0	2	0	0	0
3265:	0	0	0	0	0	2	0	0
3273:	1	0	0	0	0	0	0	1
3281:	1	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	1	0
3297:	1	0	1	1	0	0	0	0
3305:	0	0	0	0	1	0	0	1
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	2
3361:	0	0	0	0	0	0	0	1
3369:	0	0	0	0	0	1	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	1	0	0

3393:	0	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-09.088-089

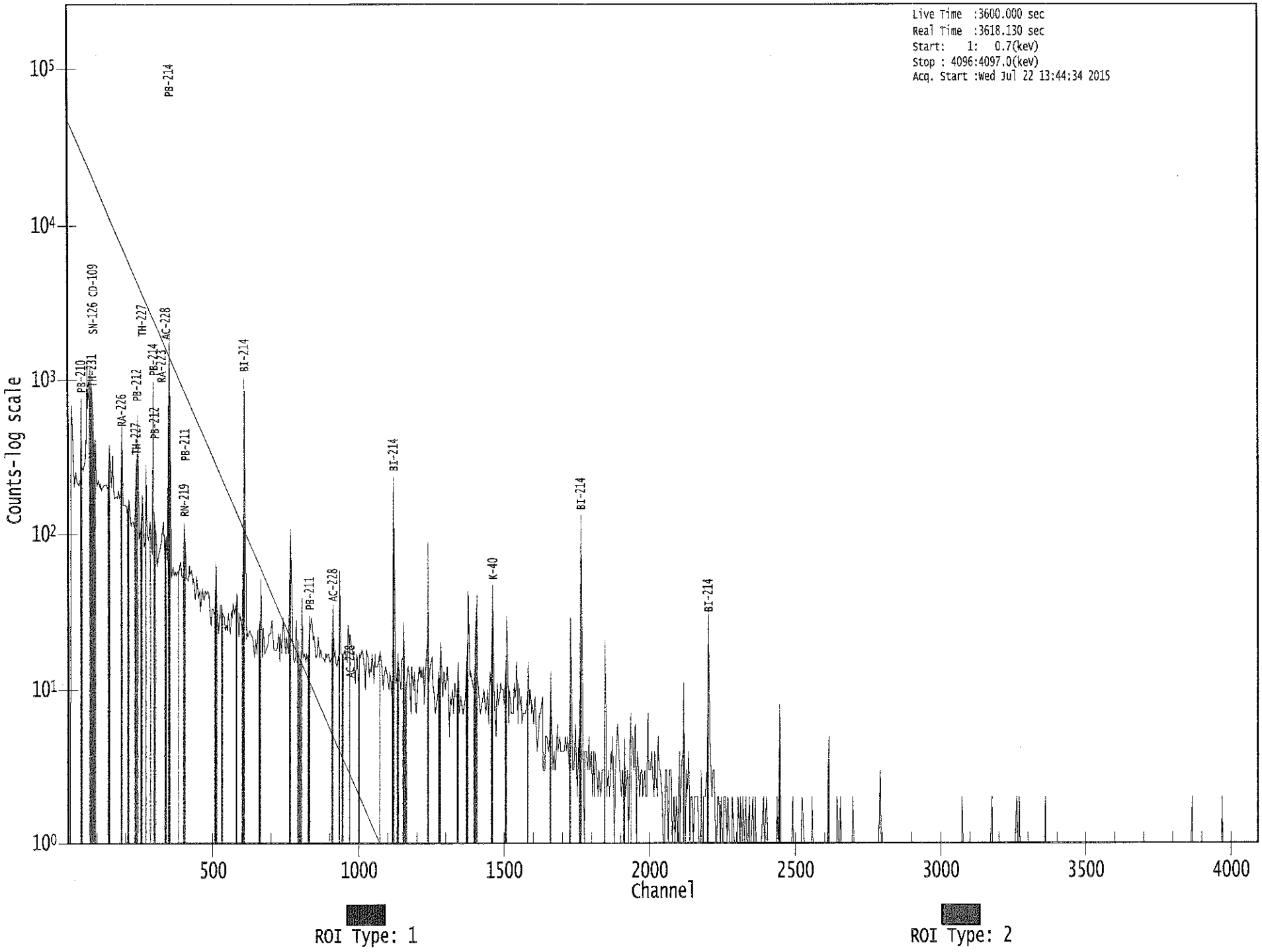
Channel								
3401:	1	0	0	0	0	0	0	0
3409:	0	0	1	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	1	0	0	0	0
3433:	0	0	1	0	0	0	1	0
3441:	0	0	1	0	0	0	0	0
3449:	0	0	0	0	1	0	0	0
3457:	0	0	0	0	0	1	0	0
3465:	0	0	0	0	0	0	0	0
3473:	1	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	1	0
3489:	0	1	0	0	0	0	0	0
3497:	0	1	1	0	0	0	1	0
3505:	0	0	0	0	0	0	0	1
3513:	0	1	0	0	0	0	0	0
3521:	0	0	0	0	0	0	1	0
3529:	1	1	0	0	0	0	0	0
3537:	0	0	1	0	0	0	0	0
3545:	0	0	0	0	0	0	0	1
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	1	1	0	1	0	0
3577:	0	1	0	0	0	0	0	0
3585:	0	1	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	1	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	1	0	0	0	0	0
3625:	0	0	0	0	1	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	0	0	0	0	0
3649:	0	0	0	0	0	1	0	0
3657:	0	0	0	1	0	0	1	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	1	0
3713:	0	0	0	0	0	0	0	0
3721:	0	1	0	0	0	1	1	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	1
3753:	1	0	0	1	0	1	0	0
3761:	0	0	0	0	1	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	1	0	1	0	0	0

3825:	1	0	0	1	0	0	0	0

Sample Title: FEEBRIS1D-09.088-089

Channel								
3833:	0	0	0	1	0	0	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	0	1	0	0	0	0
3857:	0	0	0	0	1	0	1	0
3865:	0	0	0	2	1	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	1	0	0	1	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	1	0	0	1	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	1	0	0	0	0
3969:	2	2	0	0	0	0	0	0
3977:	0	0	1	0	0	0	0	0
3985:	1	0	0	0	0	1	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	1	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	1	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	1	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	1	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025024.CNF



****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/21/15 5:32:53 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/21/15 5:16:56 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 947.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9770E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6168E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8362E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.8208E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	1.8962E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.3544E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.4890E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.8094E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Decay corrected activity	6.5237E+004	
Boundary Limits: [4.969E-002, 7.453E-002]		< : : : >

Decay corrected activity 1.0232E+005
Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity Boundary Limits: [1.713E-001, 2.569E-001]	2.2131E+005	< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/21/15 5:32:33 AM

FM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/21/15 5:16:48 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 931.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6153E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3648E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1241E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1289E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.5530E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5316E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 6.3501E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 1.0339E+005
Boundary Limits: [7.978E-002, 1.197E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 2.1984E+005
Boundary Limits: [1.714E-001, 2.571E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/21/15 6:02:53 AM

7/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/21/15 5:47:39 AM
Measurement Date: 7/21/15 5:47:41 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 903.4 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3	1.6810E+003	-4.0100E-001
[SD: 2.3190E+003+/-1590.9]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/21/15 6:02:43 AM

7/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/21/15 5:47:31 AM
Measurement Date: 7/21/15 5:47:33 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2 [SD: 4.5799E+000+/- 0.282]	4.3378E+000	-8.5898E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
7/22/15 5:44:13 AM

7/22

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004GAW-14C.QCK

Detector: GE4
Geometry: <None>
Certificate: GAW-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/22/15 5:28:06 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 954.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.8614E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6090E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3319E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	2.2485E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.6532E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.8729E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	3.1844E+000	
Boundary Limits: [5.000E-001, 3.500E+000]		< : : : >
Decay corrected activity	1.2274E+005	
Boundary Limits: [1.200E-001, 1.816E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Decay corrected activity 6.4738E+004
Boundary Limits: [4.918E-002, 7.377E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	9.6560E+004	
Boundary Limits: [7.892E-002, 1.184E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1196E+005	
Boundary Limits: [1.695E-001, 2.543E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/22/15 5:43:58 AM

7/22

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/22/15 5:28:02 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 947.0 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9755E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6163E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8359E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.8416E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.9934E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.3806E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.4165E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.8115E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Decay corrected activity	6.6747E+004	
Boundary Limits: [4.969E-002, 7.453E-002]		< : : : >
Decay corrected activity	1.0417E+005	

Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	2.1644E+005	
Boundary Limits: [1.713E-001, 2.569E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/22/15 5:43:41 AM

7/22

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/22/15 5:27:56 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 931.4 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6154E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3668E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1129E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1451E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6213E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5451E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 6.4104E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 1.0492E+005
Boundary Limits: [7.978E-002, 1.197E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 2.1490E+005
Boundary Limits: [1.714E-001, 2.571E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/22/15 5:43:31 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/22/15 5:27:49 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 929.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0248E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6184E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0600E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.6967E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.3608E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.4222E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4862E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.1970E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0685E+004	

Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.9291E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/22/15 6:13:32 AM

Fig

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004B.QCK

Detector: GE4
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/22/15 5:58:16 AM
Measurement Date: 7/22/15 5:58:17 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 901.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE4 [SD: 9.9575E+000+/-177.18]	1.7689E+000	-4.6215E-002 < : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/22/15 6:13:24 AM

7/22

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/22/15 5:58:09 AM
Measurement Date: 7/22/15 5:58:10 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 902.8 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3 [SD: 2.3176E+003+/-1589.4]	3.4940E+003	7.4014E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/22/15 6:13:08 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/22/15 5:57:54 AM
Measurement Date: 7/22/15 5:57:56 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1	2.2500E+000	2.3726E-001
[SD: 2.1620E+000+/- 0.371]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/22/15 6:13:16 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/22/15 5:58:02 AM
Measurement Date: 7/22/15 5:58:04 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2 [SD: 4.5794E+000+/- 0.282]	4.4300E+000	-5.3015E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-06115-OR

July 29, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 15-06115

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		6/29/15	KC	Sample Log-In
		7/22/15	JG	Data Compilation
		7/22/15	MKT	First Technical Data Review
		7/22/15	MSK	Second Technical Data Review
		07/24/15	EJT	Data Entry/Electronic Deliverable
		07/24/15	EJT	Case Narrative
		7/27/15	ZBS	Electronic Deliverable Proof
		7/27/15	MSK	Samples Analyzed within Holding Time Yes? [✓] No? [ ]
		7/27/15	MSK	QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: _____ 7/29/16

Laboratory Manager Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7120

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1 D	Project Number: ENG/BOR 1 D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 CROSSVILLE RD STE 1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 804549896386
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

Page 2 of 2

15-06115

Purchase Order #: ENG/BOR 1 D

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: Gamma Spec	Isotopic Thorium	Isotopic Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRI SID-13.093-094	6/12/15	1415	S	1	X	X	X	DUPLICATE	

REC'D JUN 29 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake	Kristen Coulston	6/29/15	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround		Sample Receipt	
Level I	☐	Routine	☒	Total # Containers Received?	
Level II	☐	24 Hour	☐	COC Seals Present?	
Level III	☐	1 Week	☐	COC Seals Intact?	
Other	☐	Other ____		Received Containers Intact?	
				Temperature?	

EBERLINE SERVICES Oak Ridge Laboratory	Internal Chain of Custody	Work Order #	15-06115
		Lab Deadline	7/21/2015
		Analysis	UUISO - Level 4
		Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	57	D1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0800	[illegible]	6-30-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0700	[illegible]	7-6-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe	7/6/15 0700
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe	7/6/15 1246
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JBD	7/6/15 1246
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	7-8-15 0829
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	0829
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB	7/8/15 1210
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

Printed: 6/30/2015 8:45 AM

00006

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06115
Lab Deadline	See Comments
Analysis	ThISO - Level 4
Sample Matrix	SO

Comments

Re-Analysis: 2

Original Lab Deadline: 07/27/15
Rerun Lab Deadline: 07/27/15

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	57	D1.1

	Location (circle one)					Technician Initials	
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room	JWDP 7/9/15	0900
Relinquished by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JWDP 7/9/15	0950
Received by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 7-9-15	0950
Relinquished by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 7-13-15	0708
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 7/13	0740
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	LCD 7/13/15	1408
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

Printed: 7/8/2015 3:29 PM

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-06115
Lab Deadline	7/21/2015
Analysis	Gamma - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
21 day ingrowth: Report Ac228, Bi214, Pb212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.	04	57	D1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room @ 800	Kenyseig	6-30-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0955	Kenyseig	7-1-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	0955
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	1050
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	06/29/2015	28	15-06115
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	ENG/BOR 1-D	H	07/21/2015	07/24/2015	07/27/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																							Ttl
01	LCS	06/30/15	SO	D1.1	X	X	X																							3
02	BLANK	06/30/15	SO	D1.1	X	X	X																							3
03	DUP	06/30/15	SO	D1.1	X	X	X																							3
04	FEEBRIS1D-13.093-094	06/12/15 14:15	SO	D1.1	X	X	X																							3
																														0

Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-06115

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS (NON-AQUEOUS)

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kristen Carlsten DATE: 6/29/15

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39429

July 29, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-06115-OR

SAMPLE RECEIPT

This work order contains one soil sample received 06/29/2015. This sample was analyzed for Isotopic Uranium, Isotopic Thorium and by Gamma Spectroscopy.

CLIENT ID	LAB ID
FEEBRIS1D-13.093-094	15-06115-04

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

ISOTOPIC URANIUM

Sample was prepared by removing a representative aliquot followed by mixed acid digestions and dilutions as appropriate. An aliquot was taken from dilution and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM CONTINUED

Sample demonstrated acceptable results for all Uranium analyses. Chemical recovery was acceptable for all samples. The Uranium-234, Uranium-235 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-234, Uranium-235 and Uranium-238 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Sample was prepared by removing a representative aliquot followed by mixed acid digestions and dilutions as appropriate. An aliquot was taken from dilution and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-228, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

2nd Analytical Attempt

Sample was reanalyzed due to elevated chemical recoveries. Sample demonstrated acceptable results for all Thorium analyses. Chemical recovery was acceptable for all samples. The Thorium-228, Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-228, Thorium-230 and Thorium-232 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-228, Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

Sample was dried, homogenized and placed into an appropriate gamma spectroscopy geometry container. Sample was then sealed for 21 days to allow for ingrowth of Radon-222 and progeny. Sample was counted on a High Purity Germanium (HPGe) gamma ray detector. Energy lines from Lead-214 and Bismuth-214 were analyzed for determinations of Radium-226 activity.

Sample demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Bismuth-214, Lead-214 and Thorium-234 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 7/29/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06115
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cobalt-60	LANL ER-130 Modified	1.37E+02	8.83E+00	1.13E+01	6.96E-01	5.92E-01	pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cesium-137	LANL ER-130 Modified	8.69E+01	7.40E+00	8.64E+00	1.01E+00	5.03E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Actinium-228	LANL ER-130 Modified	3.60E-02	5.44E-02	5.45E-02	1.24E-01	5.25E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Bismuth-214	LANL ER-130 Modified	4.22E-02	3.59E-02	3.60E-02	7.54E-02	3.36E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Lead-212	LANL ER-130 Modified	3.91E-02	3.05E-02	3.06E-02	5.51E-02	2.56E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Lead-214	LANL ER-130 Modified	-3.08E-02	5.41E-02	5.41E-02	7.66E-02	3.51E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Radium-226	LANL ER-130 Modified	4.22E-02	3.59E-02	3.60E-02	7.54E-02	3.22E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Radium-228	LANL ER-130 Modified	3.60E-02	5.44E-02	5.45E-02	1.24E-01	5.25E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Thorium-234	LANL ER-130 Modified	8.75E-01	3.96E-01	3.98E-01	6.63E-01	3.16E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Thallium-208	LANL ER-130 Modified	1.31E-02	6.46E-02	6.46E-02	1.07E-01	4.74E-02	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Actinium-228	LANL ER-130 Modified	3.87E-01	2.05E-01	2.06E-01	3.57E-01	1.70E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Bismuth-214	LANL ER-130 Modified	3.29E+00	2.58E-01	3.08E-01	2.30E-01	1.12E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-212	LANL ER-130 Modified	5.52E-01	1.02E-01	1.06E-01	2.65E-01	1.30E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-214	LANL ER-130 Modified	3.52E+00	2.80E-01	3.33E-01	2.40E-01	1.17E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-226	LANL ER-130 Modified	3.29E+00	2.58E-01	3.08E-01	2.30E-01	1.13E+00	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-228	LANL ER-130 Modified	3.87E-01	2.05E-01	2.06E-01	3.57E-01	1.70E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thorium-234	LANL ER-130 Modified	2.97E+00	1.50E+00	1.51E+00	2.44E+00	1.20E+00	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thallium-208	LANL ER-130 Modified	4.82E-01	1.15E-01	1.17E-01	8.59E-02	1.65E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Actinium-228	LANL ER-130 Modified	4.63E-01	1.72E-01	1.73E-01	3.58E-01	1.71E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Bismuth-214	LANL ER-130 Modified	3.27E+00	2.60E-01	3.09E-01	1.57E-01	7.50E-02	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-212	LANL ER-130 Modified	5.72E-01	1.09E-01	1.13E-01	2.69E-01	1.33E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-214	LANL ER-130 Modified	3.47E+00	2.76E-01	3.28E-01	2.23E-01	1.09E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-226	LANL ER-130 Modified	3.27E+00	2.60E-01	3.09E-01	1.57E-01	1.44E+00	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-228	LANL ER-130 Modified	4.63E-01	1.72E-01	1.73E-01	3.58E-01	1.71E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thorium-234	LANL ER-130 Modified	2.49E+00	1.21E+00	1.21E+00	2.79E+00	1.38E+00	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thallium-208	LANL ER-130 Modified	3.99E-01	9.06E-02	9.29E-02	1.19E-01	1.66E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06115
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-228	EML Th-01 Modified	4.83E+00	1.74E-01				pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-228	EML Th-01 Modified	5.56E+00	8.58E-01	1.00E+00	7.55E-02	1.02E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-228	EML Th-01 Modified	6.89E-03	4.32E-02	4.32E-02	1.04E-01	2.36E-02	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-228	EML Th-01 Modified	2.44E-01	1.55E-01	1.57E-01	1.44E-01	2.93E-02	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-228	EML Th-01 Modified	2.24E-01	1.36E-01	1.37E-01	9.18E-02	7.94E-03	pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	5.39E+00	1.45E-01				pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	6.57E+00	9.83E-01	1.28E+00	6.40E-02	6.41E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	8.55E-02	7.20E-02	7.28E-02	6.12E-02	6.76E-02	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	2.96E+00	6.96E-01	7.86E-01	1.07E-01	1.01E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	2.90E+00	6.57E-01	7.48E-01	8.91E-02	8.91E-02	pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	4.83E+00	1.74E-01				pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	4.81E+00	7.65E-01	8.74E-01	8.02E-02	1.32E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	-7.47E-03	2.99E-02	3.00E-02	7.68E-02	8.91E-03	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	2.61E-01	1.50E-01	1.52E-01	8.48E-02	5.45E-03	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	2.29E-01	1.37E-01	1.39E-01	1.05E-01	1.45E-02	pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	8.05E+00	2.90E-01				pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	6.30E+00	8.89E-01	9.96E-01	6.24E-02	5.72E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	1.12E-01	8.40E-02	8.44E-02	7.82E-02	9.05E-03	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	2.65E+00	4.76E-01	5.12E-01	5.55E-02	5.07E-03	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	2.74E+00	4.77E-01	5.15E-01	6.24E-02	8.59E-03	pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	5.74E-01	2.00E-01	2.04E-01	7.70E-02	5.26E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	9.00E-03	3.76E-02	3.76E-02	9.64E-02	8.52E-03	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	1.95E-01	1.08E-01	1.09E-01	6.84E-02	4.65E-03	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	1.64E-01	9.85E-02	9.92E-02	8.19E-02	6.99E-04	pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	7.85E+00	2.83E-01				pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	6.56E+00	9.17E-01	1.03E+00	6.82E-02	7.52E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	2.22E-03	3.11E-02	3.11E-02	8.88E-02	1.36E-02	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	2.72E+00	4.84E-01	5.21E-01	6.91E-02	1.06E-02	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	2.78E+00	4.81E-01	5.21E-01	6.61E-02	7.43E-04	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

SECTION V

ANALYTICAL STANDARDS

QA/QC REVIEWED
Date 1/16/95 Initials MK

U-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution: 65.2896 g in a 50 ml flame sealed ampoule

b. Chemical form: Uranyl Nitrate in H2O

c. Carrier content: None

d. Density: Approximately 1.3202 g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
3017 N. SAN FERNANDO BLVD.
BURBANK, CALIFORNIA 91504
818•843•7000 FAX 818•843•6168

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 479-50

SOLUTION #: U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide: $^{234, 235, 238}U$

Reference Date: 1/1/1995 0:00

Certified Activity: 8.016E+00 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution

Uranyl nitrate in dilute HNO_3

Dilution Instructions:

Dilution Solvent Used: 1M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 8.0160 µCi Which Equals 1.780E+07 dpm at the date listed above

And after dilution the activity of this solution is 1.77955E+04 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 479-50	Solution #	U-8a

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest: $^{234, 235, 238}U$
Parent Solution Conc.: 1.7796E+04 dpm/ml

Reference Date: 1/1/1995 0:00

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	4.0000	ml
Total Activity:	7.1182E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 7.1182E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.35[illegible] grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Method of measurement (see reverse of this certificate)

Accuracy Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity The isotopic composition, expressed as atom per cent at the reference date .

Not measured

Chemical Composition Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory

Roger Wiltshire

Project Ref. AE2315

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

AEA Technology is the trading name of AEA Technology plc

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 11/11/2014 0:00

SOLUTION REFERENCE #: AEA/Amersham 92/232/67

SOLUTION #: U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide: ^{232}U

Reference Date: 3/1/2000 0:00

Certified Activity: 9.760E-01 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross: Weight, Grams

Empty Ampoule: Weight, Grams

Solution Net: Weight, Grams

Total Activity in Ampoule: 0.9760 µCi

Chemical Composition of Standard Solution

$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used: 2M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 0.9760 µCi Which Equals 2.167E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.167E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 11/01/03
Title: **Radioactive Reference Standards Solutions & Records**

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009
Solution Reference # AEA/Amersham 92/232/67
Date 11/11/2014 0:00
Solution # U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest ^{232}U
Parent Solution Conc. 2.167E+03 dpm/ml

Reference Date 3/1/2000 0:00

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.1670E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.1670E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

QA/QC REVIEWED
Date 10/14/91 ut 10/14/91 Initials ut

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 µCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 µCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

ISOTOPE PRODUCTS LABORATORIES
1800 No. Keystone Street.,
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EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 4/15/2015 0:00

SOLUTION REFERENCE # IPL 388-116 **SOLUTION #** Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide ^{230}Thorium
Reference Date 11/1/1991 0:00
Certified Activity 1.036E+00 µCi
Certified Concentration µCi per gram

Ampoule /Solution Gross	9.2660	Weight, Grams
Empty Ampoule	4.6218	Weight, Grams
Solution Net	4.6442	Weight, Grams
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used 0.1N HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0360 µCi **Which Equals** 2.300E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.300E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

EBERLINE SERVICES | QUALITY CONTROL PROGRAM
MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009
Solution Reference # IPL 388-116

Date 4/15/2015 0:00
Solution # Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest: ^{230}Thorium
Parent Solution Conc.: 2.30E+03 dpm/ml

Reference Date: 11/1/1991 0:00

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2999E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2999E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405 ± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 μCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)	
b. Chemical form:	Th(NO3)4 in water	
c. Carrier content:	None added	
d. Density:	Approx. 1.21	g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 μCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 435-104-2

SOLUTION #: Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide: $^{232\&228}Th$

Reference Date: 11/1/1993 0:00

Certified Activity: 9.330E-02 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in H2O

Dilution Instructions:

Dilution Solvent Used: 1% Nitric Acid

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 0.0933 µCi Which Equals 2.071E+05 dpm at the date listed above

And after dilution the activity of this solution is 2.071E+02 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev:8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 435-104-2	Solution #	Th-8b

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{228\ \&\ 232}Th$	1.405E+10	5.132E+12

Radionuclide of Interest	$^{228\ \&\ 232}Th$	Reference Date	11/1/1993 0:00
Parent Solution Conc.	2.07E+02 dpm/ml		

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions: **Dilution Solvent Used** 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	500.0000 ml	Final Activity Concentration:	1.0355E+02 dpm/ml
Total Activity:	1.0355E+05 dpm		
Final Volume:	1000.00 ml		

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity: (Th-229 only)**	1.013 µCi 37.48 kBq

Physical Description:

A. Mass of solution: 5.0147 g in 5 mL flame-sealed ampoule
B. Chemical form: $Th(NO_3)_4$ in 0.1M HNO_3
C. Carrier content: 10µg Th/mL
D. Density: 1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.
Peak energy used for integration: 193.5 keV
Branching ratio used: 0.0441 gammas per decay

Uncertainty of Measurement:

A. Type A (random) uncertainty: ± 0.7 %
B. Type B (systematic) uncertainty: ± 3.0 %
C. Uncertainty in aliquot weighing: ± 0.0 %
D. Total uncertainty at the 99% confidence level: ± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 867-54

SOLUTION #: Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide: ^{229}Th

Reference Date: 1/15/2002 0:00

Certified Activity: 1.013E+00 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1 M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 1.0130 µCi Which Equals 2.249E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.249E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES | QUALITY CONTROL PROGRAM
MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 867-54	Solution #	Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide of Interest: ^{229}Th
Parent Solution Conc.: 2.25E+03 dpm/ml

Reference Date: 1/15/2002 0:00

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2490E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2490E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION
Standard Radionuclide Source

GAS-1402

98503
Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY — HEALTH PHYSICS SOCIETY — FOUNDED 1956

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00035

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06115	UUISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		78.21%	15.81%	100.00%	3.60%	8.05E+00	2.90E-01	6.30E+00	9.96E-01	U-8a	3.52E+01	3.60E+00	5.07E-01
U-238		83.51%	15.70%	100.00%	3.60%	7.85E+00	2.83E-01	6.56E+00	1.03E+00	U-8a	3.44E+01	3.60E+00	5.07E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	0.23	3.18	2.74E+00	5.15E-01	2.65E+00	5.12E-01
U-238	0.16	2.25	2.78E+00	5.21E-01	2.72E+00	5.21E-01
U-235	0.42	17.58	1.64E-01	9.92E-02	1.95E-01	1.09E-01

QC Summary

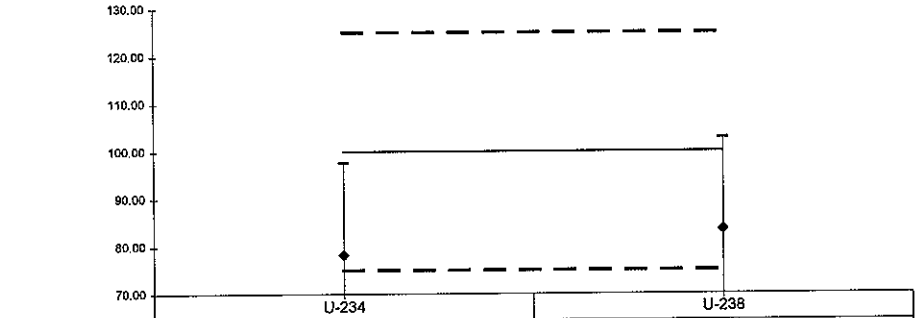
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.78	OK				OK	OK
0.84	OK				OK	OK
	OK				NA	OK

15593.1

Version

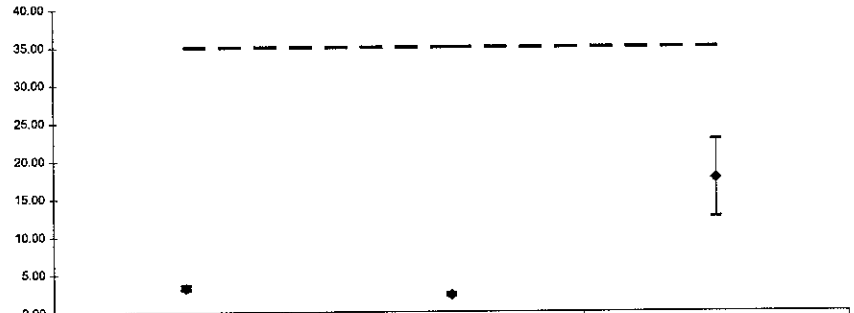
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06115	UUISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



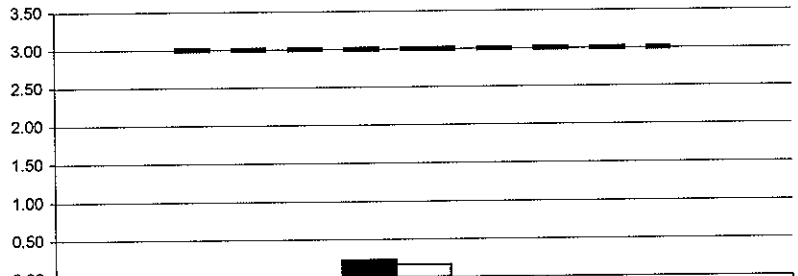
	U-234	U-238
Lower Error	58.80	64.21
Upper Error	97.62	102.81
%R	78.21	83.51
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	3.48	2.47	22.66
Upper Error	2.88	2.04	12.49
RPD	3.18	2.25	17.58
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	0.23	0.00
U-238	0.00	0.16	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06115	ThISO	2	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		115.09%	18.08%	100.00%	3.60%	4.83E+00	1.74E-01	5.56E+00	1.00E+00	Th-8b	1.04E+02	3.60E+00	1.04E-01
TH-230		122.03%	19.41%	100.00%	2.70%	5.39E+00	1.45E-01	6.57E+00	1.28E+00	Th-1b	2.35E+01	2.70E+00	5.08E-01
TH-232		99.68%	18.17%	100.00%	3.60%	4.83E+00	1.74E-01	4.81E+00	8.74E-01	Th-8b	1.04E+02	3.60E+00	1.04E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

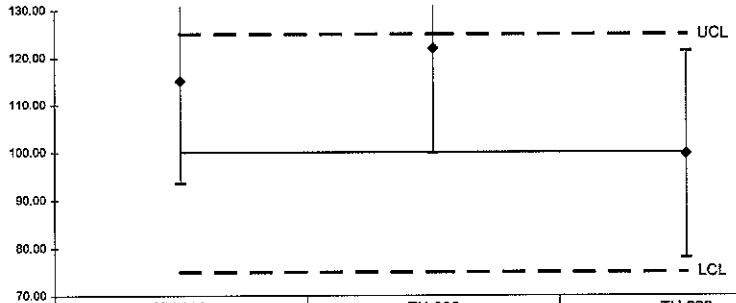
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	0.19	8.69	2.24E-01	1.37E-01	2.44E-01	1.57E-01
TH-230	0.11	2.11	2.90E+00	7.48E-01	2.96E+00	7.86E-01
TH-232	0.30	12.91	2.29E-01	1.39E-01	2.61E-01	1.52E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.15	OK				NA	OK
1.22	OK				OK	OK
1.00	OK				NA	OK

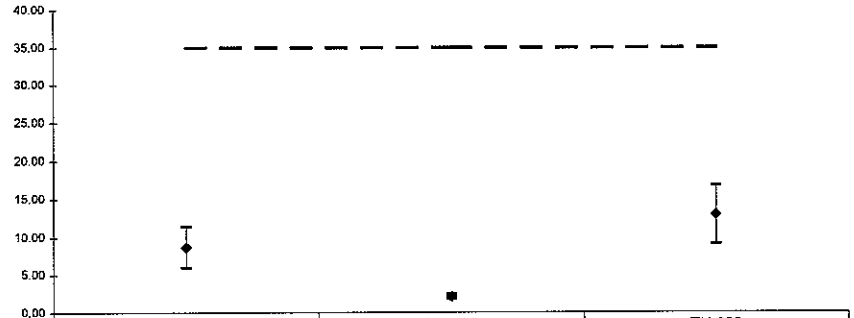
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06115	ThISO	2	pCi	g	AMO Environmental Decisions

LCS % Recovery



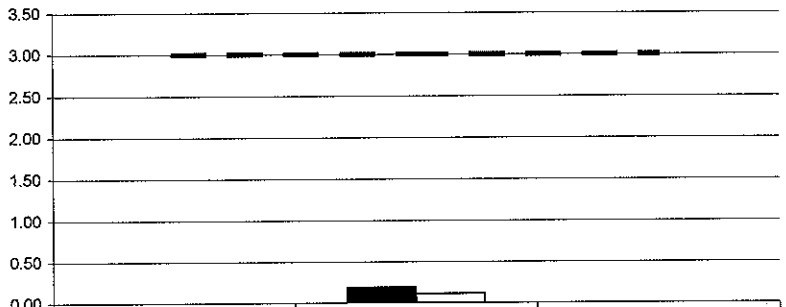
	TH-228	TH-230	TH-232
Lower Error	93.41	99.92	77.91
Upper Error	136.77	144.14	121.45
%R	115.09	122.03	99.68
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	11.42	2.39	16.74
Upper Error	5.96	1.83	9.08
RPD	8.69	2.11	12.91
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	0.19	0.00
TH-230	0.00	0.11	0.00
UCL	3	3	3

No Matrix Spike

Version

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06115	Gamma	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		100.25%	8.23%	100.00%	4.00%	1.37E+02	5.48E+00	1.37E+02	1.13E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		100.01%	9.94%	100.00%	4.00%	8.69E+01	3.48E+00	8.69E+01	8.64E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

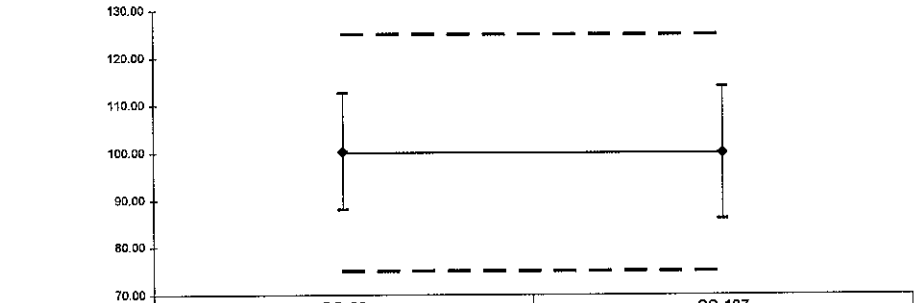
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
BI-214	0.10	0.67	3.27E+00	3.09E-01	3.29E+00	3.08E-01
PB-214	0.19	1.28	3.47E+00	3.28E-01	3.52E+00	3.33E-01
TH-234	0.49	17.88	2.49E+00	1.21E+00	2.97E+00	1.51E+00

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.00	OK		<CS-137	BI-214>	NA	
1.00	OK		<CO-60	PB-214>	NA	OK
				TH-234>	NA	OK

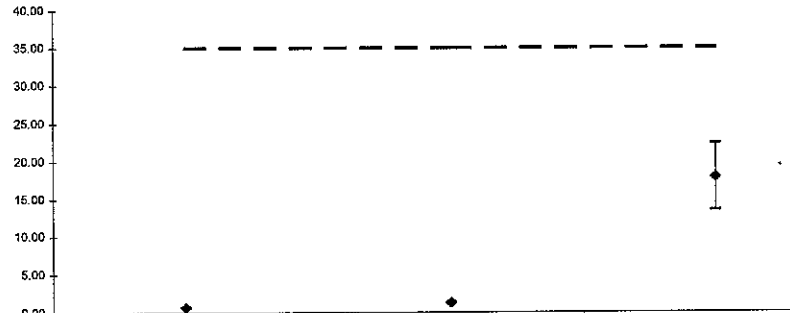
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-06115	Gamma	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



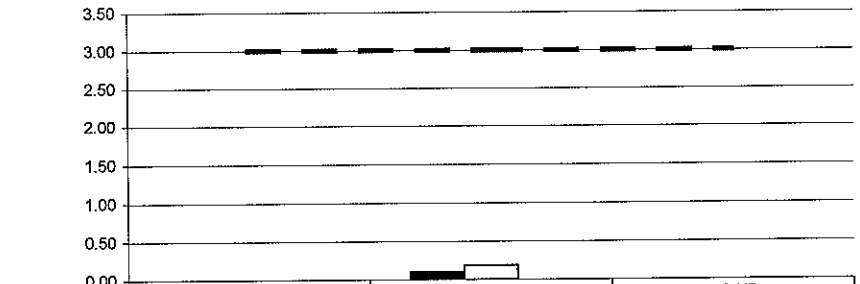
	CO-60	CS-137
Lower Error	88.02	86.07
Upper Error	112.47	113.95
%R	100.25	100.01
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	BI-214	PB-214	TH-234
Lower Error	0.70	1.34	22.34
Upper Error	0.64	1.22	13.43
RPD	0.67	1.28	17.88
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.10	0.00
CS-137	0.00	0.19	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06115
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWOLFE
7/6/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06115
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/07/15 17:30	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

7/7/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06115
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/06/15 07:55	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/07/15 17:30	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	07/08/15 04:55	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

7615

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-06115	
Analysis Code	Run
UUISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	7/6/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	7/6/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	7/6/2015
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/7/2015
016082D07	Hydrochloric Acid	0.5N	JDEMELAS	7/7/2015
016431S	Hydrochloric Acid	6.5N	JDEMELAS	7/7/2015
016530S	Hydrochloric Acid	8N	JDEMELAS	7/7/2015
016128P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/7/2015
016545S	HCl - NH4I	8N - 0.1M	JDEMELAS	7/7/2015
016529S	HCl - HF	6.5N - 0.04N	JDEMELAS	7/7/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/8/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	7/8/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/8/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	7/8/2015
016522S	Ferrous Sulfamate Solution	0.6M	TSMITH	7/8/2015
016551S	Carbon substrate	Solution	TSMITH	7/8/2015

Alpha #3

Date	Manifest	Client	Load Rec	CT Run	Analyst	Tech
6/29	150610IA(1-4)	Mirion	0905	5hr50	UUZ50	
6/29/15	150610 4A (1-4)	ECC	1217	2hr50	Rale	KB
6/29/15	150600 95A (1-4)	TEC	1312	2hr50	Rale	KB
6/29/15	150600 92A (1-7)	Accutest	1308	2hr50	Rale	KB
6/30	Daily Rinse	LAB	0516	1	NR	
6/30	150600 97A(1-4)	ucon	0815	2hr	NR2Z	
6/30	150600 97A(1-4)	Ucon	0945	2hr	Am241	
6/30	150600 97A(1-4)	Ucon	0945	2hr	Am240	
6/30/15	150610 4A(1-4)	ECC	1228	2hr50	UU	KB
6/30/15	150611 0A(1-6)	Test America	1247	2hr50	Rale	KB
7/01	Daily Rinse	LAB	0500	2	NR	
7/01	SGCCAL(77-78)	LAB	0518	2hr30	NA	
7/01	SGCCAL(49-60)	LAB	0753	2hr	NR	
7/01	150610 2A(8-13)	AMO	0814	2hr	TH250	
7/01	150611 2A(1-4)	Div. Sci	0814	2hr	UUZ50	
7/1/15	System Bkgd	Lab	1351	16hr40min	a	AK
7/1	Daily Rinse	LAB	0526	1	NR	
7/16	150610 8A(1-4)	Washington	0845	2hr	UUZ50	
7/16	150611 6A(1-4)	United	0845	2hr	UUZ50	
7/16	150610 8A(1-4.6)	Washington	0846	2hr	PU250	
7/16	150611 6A(1-4)	United	0847	2hr	PU250	
7/16	150611 6A(1-4)	United	0847	2hr	TH250	
7/16/15	150611 8A(1-4)	Test America	1052	2hr50	Rale	KB
7/16/15	150611 9A(1-6)	Accutest	1142	2hr50	Rale	KB
7/2	Daily Rinse	LAB	0511	1	NR	
7/7/15	150700 4A(1-7)	ECC	1048	2hr50	Rale	KB
7/7/15	150700 1A(1-6)	Accutest	1102	2hr50	Rale	KB
7/8	Daily Rinse	LAB	0511	1	NR	
7/8	150611 6A(4)	United	0853	2hr	Am241	
7/8	150700 4A(1-7)	Tennco	0854	2hr	UUZ50	
7/8	150700 6A(1-5)	United	0855	2hr	UUZ50	
7/8	150611 5A(1-4)	AMO	0856	2hr50	UUZ50	
7/8	150611 5A(1-4)	AMO	0856	2hr	TH250	
7/8	150611 4A(1-6)	AMO	0857	2hr	TH250	

ISO TH NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06115
Analysis Code	ThISO
Run Number	2

#	Date	Dept	User	Notes
1	07/09/15 09:20	PREP	JWOLFE	ALIQUOTED FROM PREVIOUS DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS

JWolfe 7/9/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06115
Analysis Code	ThISO
Run Number	2

#	Date	Dept	User	Notes
1	07/09/15 09:20	PREP	JWOLFE	ALIQUOTED FROM PREVIOUS DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS
2	07/10/15 16:14	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Rinsed with additional 20 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

7/10/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-06115
Analysis Code	ThISO
Run Number	2

#	Date	Dept	User	Notes
1	07/09/15 09:20	PREP	JWOLFE	ALIQUOTED FROM PREVIOUS DILUTION AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED TO SEPARATIONS
2	07/10/15 16:14	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Rinsed with additional 20 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
3	07/13/15 05:06	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Thorium)

7-13-15
JMW

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-06115	
Analysis Code	Run
ThISO	2

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016551S	Carbon substrate	Solution	TSMITH	7/13/2015
016288S	Cerrium Carrier	0.1mg/ml	TSMITH	7/13/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/13/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/13/2015

Alpha #7

Date	Sample #	Client	Feed Rim	C.T. Rim	Analyst	Test
7/13	1507018A (7,4,6)	UCON	0805	2hr 50	Am 243	—
7/13	1507037A (1-4)	UCON	0806	2hr 50	Un Iso	—
7/13	1507035A (1-4)	UCON	0806	2hr 50	Un Iso	—
7/12	1507035A (1-4,7)	UCON	0807	2hr 50	Pu Iso	—
7/12	1507035A (1-4)	UCON	0808	2hr 50	Pu 242	—
7/12	1507035A (1-4)	UCON	0809	2hr 50	Th 228	—
7/12	1507035A (1-7)	UCON	0809	2hr 50	Th Iso	—
7/13/15	1507035A (4)	UCON	1105	2hr 50	Iso-Th	KB
7/13/15	1506115B (1-4)	AMO ENV.	1106	2hr 50	Iso-Th	KB

GAMMA NOTES

GE 3

DATE	SAmple #	Client	Load Time	CT Time	Analysis	Tech
7/20	1507090-03	UCON	0702	2L	✓	—
7/20	1507090-04	UCON	0902	2L	✓	—
7/20/15	1507093-01	Access	1103	15mins	Ba	KB
7/20/15	1507093-02	Access	1119	15 mins	Ba	KB
7/20/15	1507093-05	Access	1135	15mins	Ba	KB
7/20/15	1507093-08	Access	1151	15mins	Ba	KB
7/20/15	1507093-~~10~~ KB 11	Access	1207	15mins	Ba	KB
7/20/15	1507119-03	Eden Foods	1225	2hrs	✓	KB
7/20/15	1507119-04	Eden Foods	1427	2hrs	✓	KB
7/20/15	1507120-08	Eden Foods	1628	2hrs	✓	KB
7/21	[illegible]	UB	0517	15-	✓	—
7/21	Daily B	UB	0547	15-	✓	—
7/21	1506115-02	AMO	0607	2L	✓	—

GE 2

DATE	SAmple #	Client	Load Time	CT Time	Analysis	Tech
7/16	1507054-02	Unitech	0731	2L	✓	C
7/16	1507054-01	Unitech	0933	2L	✓	C
7/16/15	1507064-01	ND	1006	15mins	Ba	KB
7/16/15	1507064-04	ND	1022	15mins	Ba	KB
7/16/15	1507066-02	ND	1038	15mins	Ba	KB
7/16/15	1507022-01	UCOR	1053	15mins	Ba	KB
7/16/15	1507022-04	UCOR	1109	15 min	Ba	KB
7/16/15	1507098-03	UCOR	1124	1hr	✓	KB
7/16/15	1507098-04	UCOR	1225	1hr	✓	KB
7/16/15	1507055-05	James R. Reed	1336	4hrs	✓	KB
7/16/15	1507055-08	James R. Reed	1741	4hrs	✓	KB
7/17	GT 1401	LAB	0524	15	✓	C
7/17	Daily R	LAB	0551	15	✓	C
7/17	1507055-10	James R.	0611	4L	✓	C
7/17/15	1507113-05	Eden Foods	1030	2hrs	✓	KB
7/17/15	1507106-05	UCOR	1232	1hr	✓	KB
7/17/15	1507107-03	UCOR	1337	4hrs	✓	KB
7/17/15	1507107-04	UCOR	1738	4hrs	✓	KB
7/18/15	Chamber Bkgd	Lab	0912	24hr	✓	AG
7/20	GT 1401	LAB	0521	15	✓	C
7/20	Daily R	LAB	0545	15	✓	C
7/20	1507056-02	UCOR	0611	4L	✓	—
7/20	1507117-02	~~UCO~~ Indt Environ	1018	2L	✓	—
7/20/15	1507120-03	Eden Foods	1220	2hrs	✓	KB
7/20/15	1507120-04	Eden Foods	1421	2hrs	✓	KB
7/20/15	1507120-07	Eden Foods	1622	2hrs	✓	KB
7/20/15	1507089-02	UCOR	1823	4hrs	✓	KB
7/21	GT 1401	LAB	0517	15	✓	C
7/21	Daily R	LAB	0547	15	✓	C
7/21	1506115-01	AMO	0607	2L	✓	—

DATE	Sample #	Client	Lod Time	CT Time	Analysis	Tech
7/20	1507117-03	Ind Flavors	1018	2L	✓	✓
7/20	1507117-04	Ind Flavors	1219	2L	✓	✓
7/20/15	1507120-05	Eden Foods	1421	2hrs	✓	RB
7/20/15	1507120-06	Eden Foods	1622	2hrs	✓	RB
7/20/15	1507089-03	UCOR	1822	4hrs	✓	RB
7/21	GFF14	LAB	0517	1L	✓	✓
7/21	Dairy	LAB	0542	1L	✓	✓
7/21	1507089-04	UCOR	0606	4L	✓	✓
7/21/15	1507122-02	Eden Foods	1007	2hrs	✓	RB
7/21/15	1507122-01	Eden Foods	1207	30mins	✓	RB
7/21	1507127-01	Weston	1320	1L	✓	✓
7/21/15	1507123-03	Weston	1353	4hrs	✓	RB
7/21/15	1507123-04	Weston	1753	4hrs	✓	RB
7/22	GFF14	LAB	0528	1L	✓	✓
7/22	Dairy	LAB	0558	1L	✓	✓
7/22	1506115-03	Amo	0617	2L	✓	✓
7/22	1506115-04	Amo	0723	2L	✓	✓

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

15-06115
UUISO
Run 1

Work Order	15-06115
Analysis Code	UUISO
Run	1
Date Received	6/29/2015
Lab Deadline	7/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.7
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/30/15 00:00	1.0000E+00
02	MBL	BLANK		06/30/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-13.093-094	57	06/12/15 14:15	1.5080E+00
04	DO	FEEBRIS1D-13.093-094	57	06/12/15 14:15	1.5080E+00

15000 :

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-06115
UUISO
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6052	11.3		0.00								
02	MBL	0.6035	11.3		0.00								
03	DUP	0.6037	11.3		0.00								
04	DO	0.6044	11.3		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06115
UUISO
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			06/30/15 09:42	JWOLFE				
02	MBL			06/30/15 09:42	JWOLFE				
03	DUP			06/30/15 09:42	JWOLFE				
04	DO	07/01/15 07:34	KSALLINGS	06/30/15 09:42	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

00063

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	6.30E+00	8.89E-01	6.24E-02	8.05E+00	78.21	OK		OK	
02	U-234	MBL	BLANK	pCi/g	1.12E-01	8.40E-02	7.82E-02					OK	OK
03	U-234	DUP	FEEBRIS1D-13.093-094	pCi/g	2.65E+00	4.76E-01	5.55E-02				OK	OK	
04	U-234	DO	FEEBRIS1D-13.093-094	pCi/g	2.74E+00	4.77E-01	6.24E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	06/30/15 00:00	1.00E+00	123.25	0.00	0.00			
02	U-234	MBL	06/30/15 00:00	1.00E+00	104.84	0.00	0.00			
03	U-234	DUP	06/12/15 14:15	1.51E+00	99.52	0.00	0.00			
04	U-234	DO	06/12/15 14:15	1.51E+00	111.42	0.00	0.00			

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-06115

Analysis Code: UUISO

Run: 1

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff	A to B, Cor
01	U-234	LCS	07/08/15 08:56		A_Spec	Alpha_047	170	4.83 E+02	2.00 E-03	16.5	
02	U-234	MBL	07/08/15 08:56		A_Spec	Alpha_048	170	7.49 E+00	3.00 E-03	17	
03	U-234	DUP	07/08/15 08:56		A_Spec	Alpha_049	170	2.29 E+02	2.00 E-03	15.3	
04	U-234	DO	07/08/15 08:56		A_Spec	Alpha_050	170	2.47 E+02	4.00 E-03	14.3	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-06115

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	6.56E+00	9.17E-01	6.82E-02	7.85E+00	83.51	OK		OK	
02	U-238	MBL	BLANK	pCi/g	2.22E-03	3.11E-02	8.88E-02					OK	OK
03	U-238	DUP	FEEBRIS1D-13.093-094	pCi/g	2.72E+00	4.84E-01	6.91E-02				OK	OK	
04	U-238	DO	FEEBRIS1D-13.093-094	pCi/g	2.78E+00	4.81E-01	6.61E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Run	Analysis Code	Eberline Services Work Order	Client
1	UUISO	15-06115	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	06/30/15 00:00	1.00E+00	123.25	0.00	0.00			
02	U-238	MBL	06/30/15 00:00	1.00E+00	104.84	0.00	0.00			
03	U-238	DUP	06/12/15 14:15	1.51E+00	99.52	0.00	0.00			
04	U-238	DO	06/12/15 14:15	1.51E+00	111.42	0.00	0.00			

Page 2 of 3

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff	A to B, Cor
01	U-238	LCS	07/08/15 08:56		A_Spec	Alpha_047	170	5.04 E+02	3.00 E-03	16.5	
02	U-238	MBL	07/08/15 08:56		A_Spec	Alpha_048	170	1.50 E-01	5.00 E-03	17	
03	U-238	DUP	07/08/15 08:56		A_Spec	Alpha_049	170	2.35 E+02	5.00 E-03	15.3	
04	U-238	DO	07/08/15 08:56		A_Spec	Alpha_050	170	2.52 E+02	0.00 E+00	14.3	

Eberline Services
Oak Ridge Laboratory

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	5.74E-01	2.00E-01	7.70E-02					OK	
02	U-235	MBL	BLANK	pCi/g	9.00E-03	3.76E-02	9.64E-02					OK	OK
03	U-235	DUP	FEEBRIS1D-13.093-094	pCi/g	1.95E-01	1.08E-01	6.84E-02				NA	OK	
04	U-235	DO	FEEBRIS1D-13.093-094	pCi/g	1.64E-01	9.85E-02	8.19E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	06/30/15 00:00	1.00E+00	123.25	0.00	0.00			
02	U-235	MBL	06/30/15 00:00	1.00E+00	104.84	0.00	0.00			
03	U-235	DUP	06/12/15 14:15	1.51E+00	99.52	0.00	0.00			
04	U-235	DO	06/12/15 14:15	1.51E+00	111.42	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff	A to B, Cor
01	U-235	LCS	07/08/15 08:56		A_Spec	Alpha_047	170	3.57 E+01	2.00 E-03	16.5	
02	U-235	MBL	07/08/15 08:56		A_Spec	Alpha_048	170	4.90 E-01	3.00 E-03	17	
03	U-235	DUP	07/08/15 08:56		A_Spec	Alpha_049	170	1.37 E+01	2.00 E-03	15.3	
04	U-235	DO	07/08/15 08:56		A_Spec	Alpha_050	170	1.20 E+01	0.00 E+00	14.3	

Count Room Report
Client: AMO Environmental Decisio

15-06115-UUISO-1 (pCi/g) in SO
Tracer ID: U-10a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/30/15 00:00	1.0000	0.6052	11.3172		0.00		
02	MBL	BLANK	06/30/15 00:00	1.0000	0.6035	11.2855		0.00		
03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	1.5080	0.6037	11.2892		0.00		
04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	1.5080	0.6044	11.3023		0.00		

EJ 0009 73

Eberline Services
Oak Ridge Laboratory

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06115	1	UUISO	6/30/2015 9:42	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
U-234	U-8a	35.240	6/30/2015	0.500	0.5074				8.05	0.290	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	6/30/2015	0.500	0.5074				7.85	0.283	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	U-232	U-10a	18.700	6/30/2015	0.6052	0.6500
02	U-232	U-10a	18.700	6/30/2015	0.6035	0.6500
03	U-232	U-10a	18.700	6/30/2015	0.6037	0.6500
04	U-232	U-10a	18.700	6/30/2015	0.6044	0.6500

Balance Printer Tapes

Tracer

0.6052 g
0.6035 g
0.6037 g
0.6044 g

LCS

0.5074 g

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06115	1	UUISO	grams	7/21/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dilution Data Dil Factor	Dilution Data Ratio	Aliquot Data Aliquot	Aliquot Data Net Equiv	MS Aliquot Data Aliquot	MS Aliquot Data Net Equiv	H-3 Solids Only Water Added (ml)	H-3 Solids Only H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-13.093-094	DUP		1	13.26	7.54E-02	2.0000E+01	1.5080E+00				
04	FEEBRIS1D-13.093-094	DO		1	13.26	7.54E-02	2.0000E+01	1.5080E+00				

Comments	

Technician: JWolfe Date: 7/6/15

: 00075

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-06115
Fraction	**> 03 <**
Analysis Code	**UUISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.54**	ml	from the original sample and diluted it to	**100**	ml	0.0754
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0754**
Dilution Factor	**13.26259947**

Diluted by: JW Date: 7/6/15

91005

EBERLINE SERVICES

	Internal Work Order	15-06115
	Fraction	**> 04 <**
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.54**	ml	from the original sample and diluted it to	**100**	ml	0.0754
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0754**
Dilution Factor	**13.26259947**

Diluted by: JW Date: 7/16/15

00077

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation
Log Book

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06115	7/21/2015	6/30/2015	7/1/2015	7/2/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-13.093-094	14.4400	829.6200	714.9900	815.1800	700.5500	14.06%	85.94%			

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

Technician: Kenny Sally

Date: Analysis: Rough Prep Logbook

Analysis: UUISO Page No. 9331

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Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-06115	grams	7/21/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare	Muffle Data		Muffle Calculations		
Fraction	Client ID	Crucible Wt	Pre Wt/Vol	Post Wt/Vol	Pre Net Wt/Vol	Post-Net Wt/Vol	Ratio Post/Pre
04	FEEBRIS1D-13.093-094	106.9900	114.5300		7.5400		

Comments

Technician: Kerry Salj Date: 7/1/15

Analysis: UUISO

00079

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506115A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_047
Chamber Serial Number: 02030596A
Detector Serial Number: 91086
Env. Background: System Bkgd 122517
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:28:22 AM
Acquisition Date/Time: 7/8/2015 8:56:15 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.605 mL
Effective Efficiency: 0.2034 +/- 0.0113
Counting Efficiency: 0.1650 +/- 0.0029 on 10/25/2014 3:23:35 PM
Chem. Recovery Factor: 1.2325 +/- 0.0721

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 0.814038 +/- 0.063002
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.277	388.66	9.95	0.34	0.00E+000	10.8
U-234		4.721	482.66	8.93	0.34	0.00E+000	17.1
U-235		4.384	35.66	33.00	0.34	0.00E+000	5.2
U-238		4.146	504.49	8.73	0.51	0.00E+000	13.8

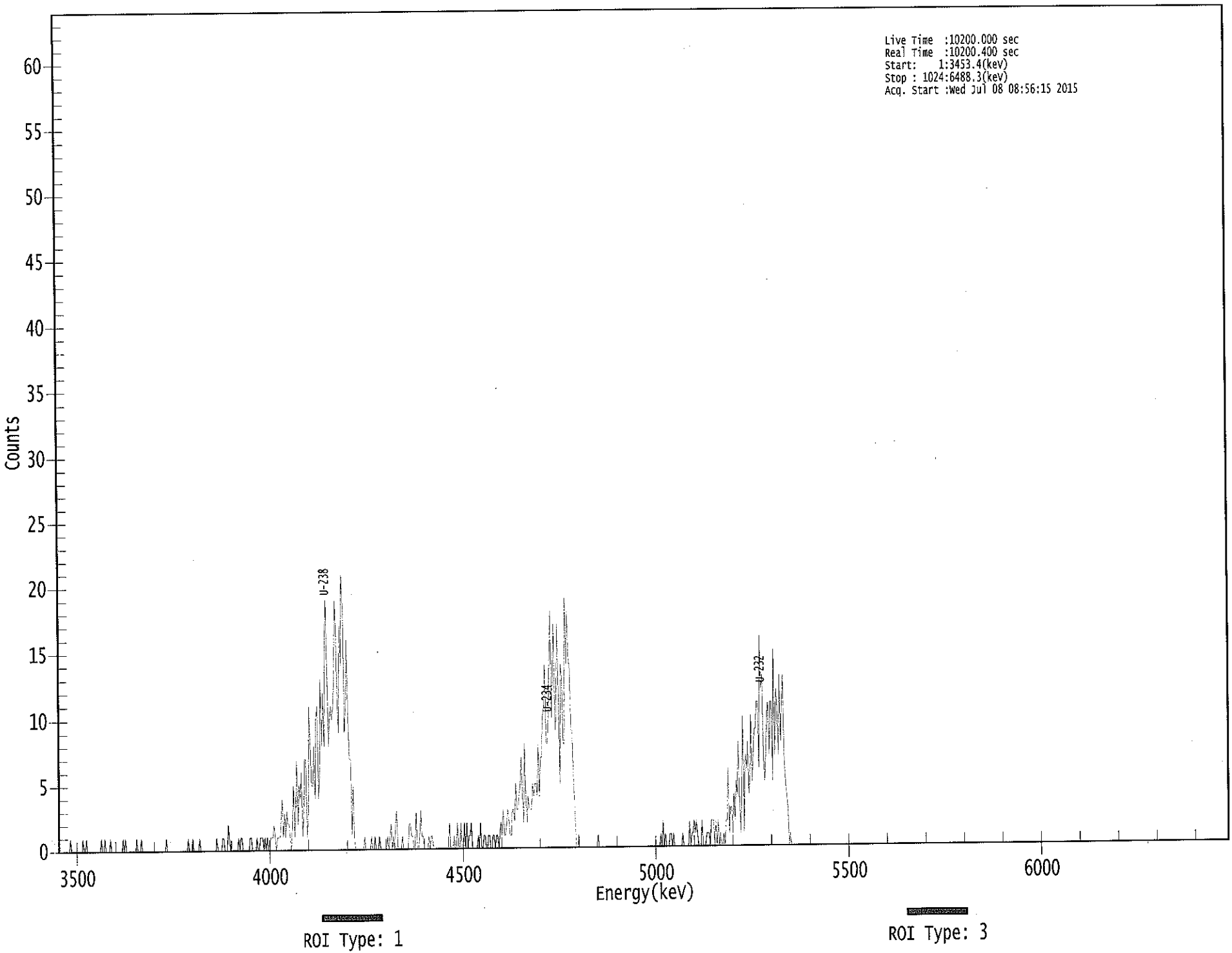
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	5.07E+000 +/- 5.54E-001	6.24E-002 +/- 6.82E-003
U-234	0.988	4761.50*	6.30E+000 +/- 8.89E-001	6.24E-002 +/- 6.82E-003
U-235	1.000	4385.50*	5.74E-001 +/- 2.00E-001	7.70E-002 +/- 8.41E-003
U-238	0.990	4184.40*	6.56E+000 +/- 9.17E-001	6.82E-002 +/- 7.45E-003

AG
7/8/15

0000122422.CNF



T0000 :

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	1	0	0	0	0	0
17:	0	0	0	0	0	1	0	0
25:	1	0	0	0	0	0	0	0
33:	0	0	0	0	0	1	0	0
41:	1	0	0	0	0	1	0	0
49:	0	0	0	0	0	0	0	0
57:	1	0	1	0	0	0	0	0
65:	0	0	0	0	1	0	0	0
73:	1	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	1	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	1	0	0	0	1	0	0
121:	0	0	0	1	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	1	0	0	0	0	1
145:	1	0	0	0	2	1	0	0
153:	0	0	0	0	0	1	0	1
161:	1	0	0	0	0	0	0	1
169:	1	0	0	0	0	1	0	0
177:	1	1	1	0	1	0	1	0
185:	0	1	1	1	2	1	0	1
193:	1	1	2	4	1	3	1	3
201:	2	2	1	0	2	5	1	3
209:	7	2	5	4	6	1	3	7
217:	7	1	3	11	8	5	5	8
225:	4	10	11	4	6	13	8	12
233:	8	16	19	14	8	10	11	10
241:	11	13	19	17	11	9	17	14
249:	21	18	9	11	16	10	7	7
257:	1	5	1	0	0	0	0	0
265:	0	0	0	1	0	0	0	0
273:	0	1	0	0	1	0	0	0
281:	1	0	0	0	0	0	0	1
289:	0	1	2	0	1	0	2	3
297:	0	0	0	0	1	0	0	0
305:	0	0	2	2	1	1	0	0
313:	3	0	0	1	3	1	1	0
321:	0	0	0	1	0	1	1	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	2	0	0
345:	0	1	0	0	2	0	0	2
353:	0	0	2	0	2	0	1	1
361:	2	0	0	0	0	0	1	0

369:	2	0	0	1	1	0	0	1

Sample Title: 01

Channel								
377:	1	0	0	1	1	0	1	1
385:	0	1	2	1	3	1	1	2
393:	3	2	1	1	3	3	2	5
401:	3	3	4	5	7	4	2	8
409:	4	2	4	3	3	3	5	4
417:	5	5	4	8	4	7	7	10
425:	11	14	8	8	10	14	18	10
433:	14	17	9	10	17	13	5	14
441:	13	8	8	19	14	18	14	14
449:	9	9	5	3	0	0	1	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	1	0
529:	2	0	1	0	0	0	1	1
537:	0	1	0	0	0	0	0	0
545:	0	1	0	0	0	0	0	2
553:	0	1	1	2	1	2	1	0
561:	0	0	2	0	0	0	1	1
569:	1	0	2	2	2	0	2	0
577:	2	0	1	0	0	1	0	2
585:	2	6	1	3	3	1	4	2
593:	5	4	8	4	1	4	10	1
601:	7	6	8	4	5	10	5	7
609:	9	9	11	11	6	16	12	13
617:	7	5	7	10	11	7	11	11
625:	5	15	7	12	11	7	13	8
633:	11	13	7	5	4	3	0	1
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/9/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506115A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_048
Chamber Serial Number: 02030596B
Detector Serial Number: 83111
Env. Background: System Bkgd 122518
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:28:22 AM
Acquisition Date/Time: 7/8/2015 8:56:16 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1783 +/- 0.0105
Counting Efficiency: 0.1700 +/- 0.0030 on 10/25/2014 3:27:02 PM
Chem. Recovery Factor: 1.0484 +/- 0.0646

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.283	339.64	10.66	1.36	0.00E+000	15.0
U-234		4.687	7.49	74.41	0.51	0.00E+000	3.0
U-235		4.389	0.49	416.98	0.51	0.00E+000	3.0
U-238		4.223	0.15	1397.8	0.85	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.997	5302.50*	5.06E+000 +/- 5.86E-001	1.02E-001 +/- 1.18E-002
U-234	0.961	4761.50*	1.12E-001 +/- 8.40E-002	7.82E-002 +/- 9.05E-003
U-235	1.000	4385.50*	9.00E-003 +/- 3.76E-002	9.64E-002 +/- 1.12E-002
U-238	0.989	4184.40*	2.22E-003 +/- 3.11E-002	8.88E-002 +/- 1.03E-002

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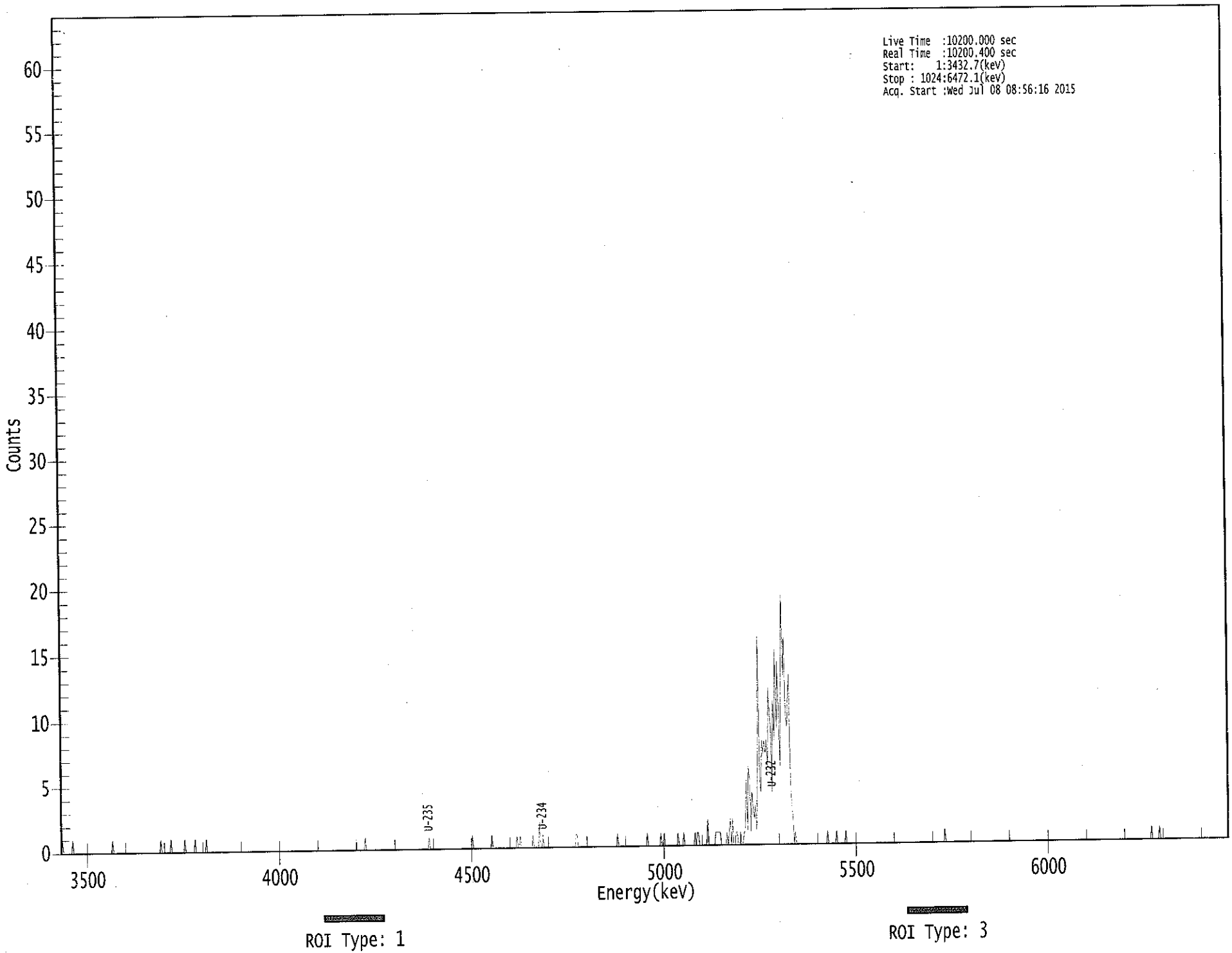
0000122423.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	1	0	0	0	0	0	0
9:	0	0	1	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	1	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	1
89:	0	0	0	0	0	0	0	0
97:	1	0	0	0	0	0	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	1	0	0
121:	0	0	0	0	0	0	0	1
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	1	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	1	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	1	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	1	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	1
401:	0	0	1	0	0	0	0	0
409:	0	0	0	0	0	1	0	0
417:	0	0	0	2	0	0	1	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	1	1	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	1
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	1	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	0
529:	1	0	0	0	0	0	0	0
537:	0	0	0	0	1	0	0	0
545:	0	1	0	0	0	0	0	0
553:	0	0	0	1	0	1	1	0
561:	0	0	0	0	0	0	2	0
569:	0	0	0	0	0	1	1	1
577:	1	1	0	0	0	0	0	1
585:	0	1	2	0	2	0	0	1
593:	1	0	0	1	0	0	1	1
601:	5	1	6	5	1	4	3	2
609:	3	1	6	16	5	4	8	7
617:	8	7	8	6	12	10	9	4
625:	11	8	15	9	14	10	6	14
633:	19	13	16	10	9	11	13	5
641:	3	2	0	1	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	1
673:	0	0	0	0	0	0	0	1
681:	0	0	0	0	0	0	0	1
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	1	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	1	0	0	0	0
961:	0	0	1	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/8/15

Apex-Alpha™

Sample Description: FEEFRIS1D-13.093-094-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506115A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_049
Chamber Serial Number: 10006121A
Detector Serial Number: 49
Env. Background: System Bkgd 122519
Reagent Blank: <not performed>

Sample Size: 1.508E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 6:28:22 AM
Acquisition Date/Time: 7/8/2015 8:56:18 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1518 +/- 0.0096
Counting Efficiency: 0.1525 +/- 0.0027 on 12/13/2014 2:45:02 PM
Chem. Recovery Factor: 0.9952 +/- 0.0654

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.277	289.32	11.54	0.68	0.00E+000	7.4
U-234		4.728	228.66	12.97	0.34	0.00E+000	4.9
U-235		4.365	13.66	53.80	0.34	0.00E+000	3.0
U-238		4.155	235.15	12.81	0.85	0.00E+000	16.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	3.36E+000 +/- 4.16E-001	6.55E-002 +/- 8.11E-003
U-234	0.992	4761.50*	2.65E+000 +/- 4.76E-001	5.55E-002 +/- 6.87E-003
U-235	0.997	4385.50*	1.95E-001 +/- 1.08E-001	6.84E-002 +/- 8.47E-003
U-238	0.994	4184.40*	2.72E+000 +/- 4.84E-001	6.91E-002 +/- 8.57E-003

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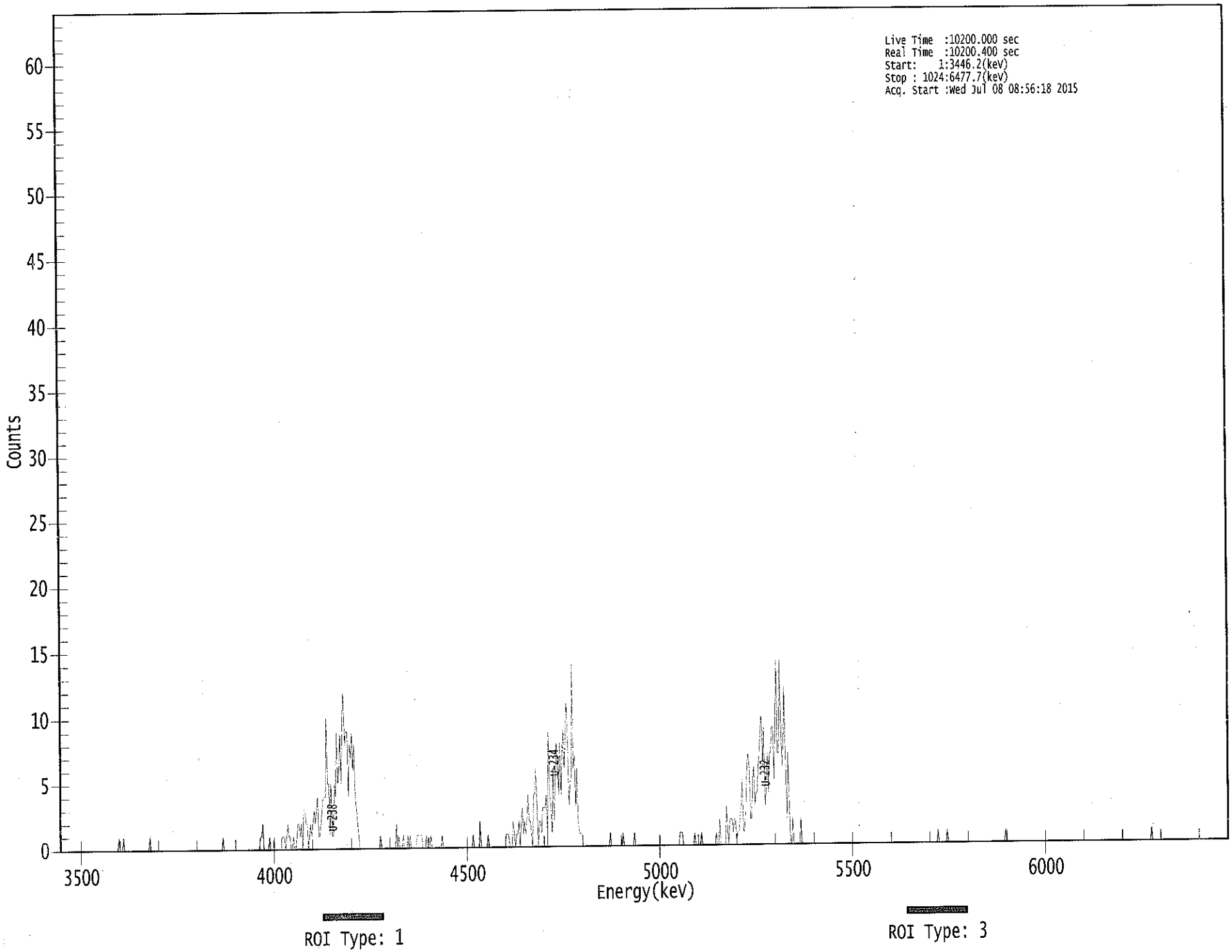
0000122429.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	0	0	1
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	1	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	1	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	1
177:	1	2	0	0	0	0	0	1
185:	0	0	0	1	0	0	0	0
193:	0	0	1	1	1	0	1	2
201:	1	1	0	0	1	0	0	1
209:	2	2	1	2	0	3	3	2
217:	2	0	1	2	1	2	3	2
225:	3	4	1	1	2	3	4	4
233:	4	10	5	5	1	5	1	1
241:	5	4	9	5	6	9	5	10
249:	12	8	9	9	4	8	7	9
257:	6	8	4	3	2	1	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	1	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	2	0
297:	1	0	0	0	1	0	0	0
305:	1	0	1	0	0	0	0	0
313:	1	1	1	1	1	0	0	0
321:	1	0	0	0	1	0	0	0
329:	0	0	0	0	0	0	1	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	1	0	0	0	0	0	2

369:	0	0	0	0	0	0	1	0

Sample Title: 03

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	1	1
393:	1	0	0	0	2	1	0	1
401:	1	2	0	2	3	1	2	1
409:	2	4	2	2	1	0	4	4
417:	6	3	0	2	2	1	3	3
425:	3	4	0	9	4	3	1	6
433:	2	5	8	6	4	8	4	7
441:	9	6	9	11	8	3	5	5
449:	14	6	7	3	6	2	1	1
457:	1	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	1	0	0	0	0	0	0
489:	0	0	0	0	1	0	0	0
497:	0	0	0	0	0	0	1	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	1	1
545:	1	0	0	0	0	0	0	0
553:	0	0	0	1	0	0	0	0
561:	0	1	0	0	0	0	0	0
569:	0	0	0	0	0	0	1	0
577:	0	2	0	0	0	0	0	3
585:	1	0	2	2	2	1	2	2
593:	0	1	1	2	3	5	1	1
601:	3	6	7	6	2	2	5	6
609:	3	4	4	6	7	9	10	6
617:	9	3	4	7	4	7	7	9
625:	9	5	9	14	7	7	14	9
633:	6	8	12	6	2	7	3	0
641:	0	2	0	0	0	0	0	0
649:	2	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	1	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	1	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

7/8/15

Sample Description: FEEBRIS1D-13.093-094
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001224
Batch Identification: 1506115A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_050
Chamber Serial Number: 10006121B
Detector Serial Number: 50
Env. Background: System Bkgd 122520
Reagent Blank: <not performed>

Sample Size: 1.508E+000 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 6:28:22 AM
Acquisition Date/Time: 7/8/2015 8:56:20 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1591 +/- 0.0098
Counting Efficiency: 0.1428 +/- 0.0026 on 12/13/2014 2:43:59 PM
Chem. Recovery Factor: 1.1142 +/- 0.0718

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.279	303.49	11.26	0.51	0.00E+000	18.4
U-234		4.734	247.32	12.48	0.68	0.00E+000	15.1
U-235		4.371	12.00	58.89	0.00	0.00E+000	3.0
U-238		4.153	252.00	12.37	0.00	0.00E+000	4.3

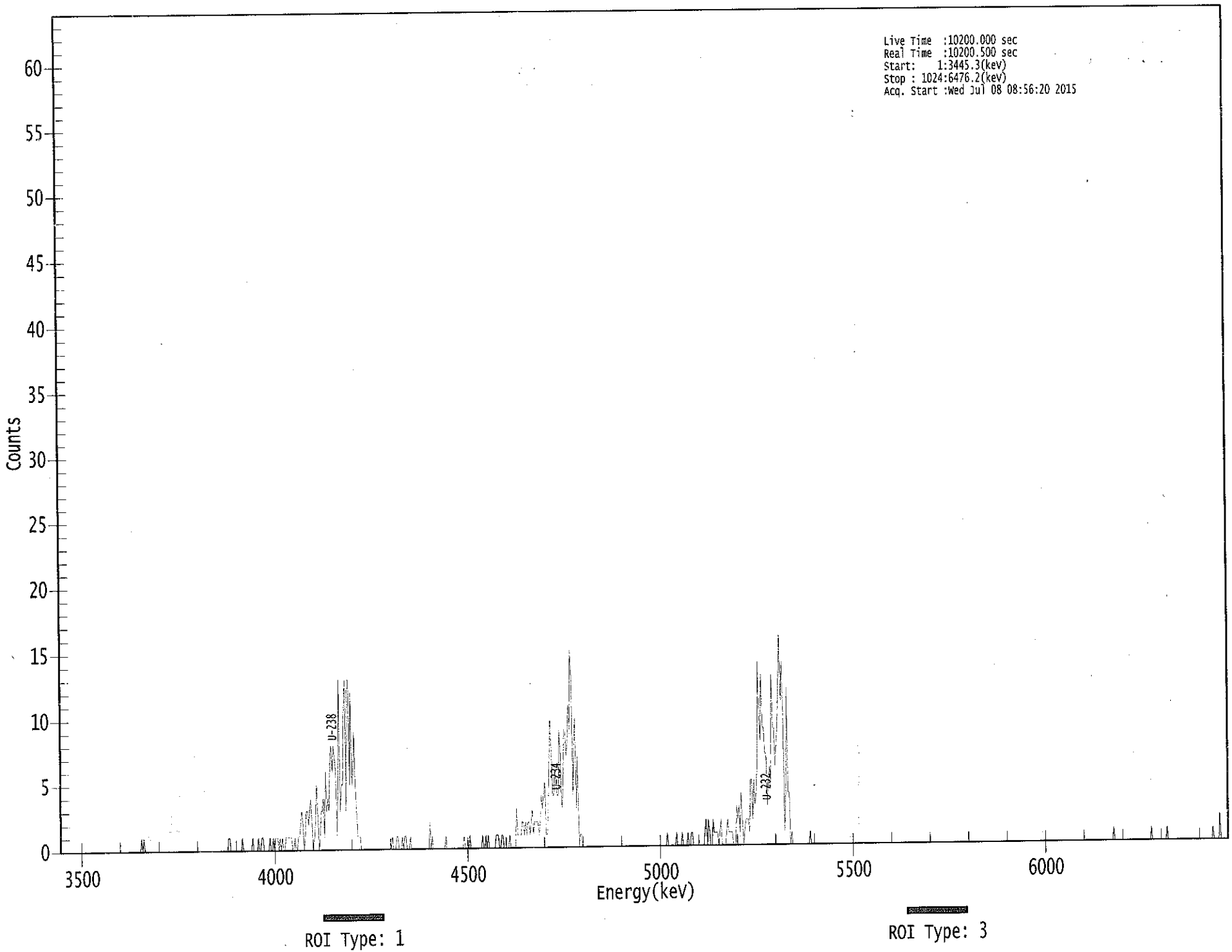
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	3.36E+000 +/- 4.08E-001	5.81E-002 +/- 7.05E-003
U-234	0.995	4761.50*	2.74E+000 +/- 4.77E-001	6.24E-002 +/- 7.57E-003
U-235	0.998	4385.50*	1.64E-001 +/- 9.85E-002	8.19E-002 +/- 9.93E-003
U-238	0.993	4184.40*	2.78E+000 +/- 4.81E-001	6.61E-002 +/- 8.02E-003

AG
7/8/15

0000122416.CNF



96000:

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	1
73:	0	1	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	1	1	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	0	0	0	0	0	0
169:	1	0	0	0	0	1	0	0
177:	1	1	0	0	0	0	0	1
185:	0	0	1	0	1	1	1	0
193:	1	0	1	0	0	1	1	1
201:	1	1	1	0	0	1	0	0
209:	1	1	2	3	2	0	1	3
217:	3	2	3	4	2	0	1	2
225:	5	3	0	1	3	3	4	1
233:	6	3	4	3	7	8	6	8
241:	7	6	1	5	13	3	5	5
249:	10	13	3	13	13	5	12	5
257:	6	9	5	3	1	1	1	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	1	0	0	0	1	1
297:	0	0	0	1	0	1	1	0
305:	0	0	1	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	2	0	1	0	0
329:	0	0	0	0	0	0	0	0
337:	0	1	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	0	1	0
361:	0	0	0	0	0	0	0	0

369:	0	1	0	0	1	0	1	0

Sample Title: 04

Channel								
377:	0	0	0	0	0	1	1	1
385:	0	0	1	1	0	0	0	0
393:	0	1	0	0	0	0	0	3
401:	1	1	1	1	2	2	1	2
409:	1	2	2	1	2	3	1	2
417:	2	2	2	1	2	4	3	4
425:	5	1	1	3	7	10	7	4
433:	4	6	5	4	4	9	7	3
441:	4	9	9	7	8	11	9	15
449:	13	4	8	10	3	7	0	1
457:	1	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	1	0	0	0	0
537:	0	0	0	1	0	0	0	0
545:	1	0	0	0	0	1	0	0
553:	1	1	0	0	0	0	0	0
561:	0	0	0	0	1	2	0	2
569:	1	0	0	2	1	1	1	1
577:	0	1	2	0	0	0	0	1
585:	2	1	1	1	1	0	0	0
593:	3	2	3	1	4	2	0	1
601:	2	2	2	1	5	5	2	5
609:	3	4	6	14	10	8	13	9
617:	9	7	7	3	5	6	5	13
625:	9	9	6	8	9	13	16	11
633:	14	10	1	4	12	4	4	0
641:	1	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	1	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	1	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	1	0	0	0	0	0	2
1017:	0	0	0	0	0	0	0	0

7/8/2015 5:35:29 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 7/8/2015
Time : 5:35:29 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/8/2015 5:11:48 AM
Alpha_004	21f	ALL	Passed	7/8/2015 5:11:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/8/2015 5:11:49 AM
Alpha_011	21f	ALL	Passed	7/8/2015 5:11:50 AM
Alpha_012	21f	ALL	Passed	7/8/2015 5:11:51 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/8/2015 5:11:52 AM
Alpha_015	21f	Peak Energy	Action	7/8/2015 5:11:53 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:54 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:57 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:11:59 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:00 AM
Alpha_038	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:02 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:04 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:05 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:07 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:09 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:10 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:12 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:13 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:15 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:17 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:18 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:20 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:22 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:24 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:26 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:28 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	7/8/2015 5:12:30 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:31 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:33 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:35 AM

Review of QA Results - Pulser Check

7/8/2015 5:35:29 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:37 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/8/2015 5:12:39 AM

APPROVED BY: _____

APPROVAL DATE: 7/8

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

15-06115
ThISO
Run 2

Work Order	15-06115
Analysis Code	ThISO
Run	2
Date Received	6/29/2015
Lab Deadline	7/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/30/15 00:00	1.0000E+00
02	MBL	BLANK		06/30/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-13.093-094	57	06/12/15 14:15	7.5400E-01
04	DO	FEEBRIS1D-13.093-094	57	06/12/15 14:15	7.5400E-01

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-06115
ThISO
Run 2

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4684	10.5		0.00								
02	MBL	0.2340	5.3		0.00								
03	DUP	0.2340	5.3		0.00								
04	DO	0.2347	5.3		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

095165

15-06115
ThISO
Run 2

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			07/09/15 09:15	JWOLFE				
02	MBL			07/09/15 09:15	JWOLFE				
03	DUP			07/09/15 09:15	JWOLFE				
04	DO	07/01/15 07:34	KSALLINGS	07/09/15 09:15	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

06106

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: ThISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.56E+00	8.58E-01	7.55E-02	4.83E+00	115.09	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	6.89E-03	4.32E-02	1.04E-01					OK	OK
03	TH-228	DUP	FEEBRIS1D-13.093-094	pCi/g	2.44E-01	1.55E-01	1.44E-01				NA	OK	
04	TH-228	DO	FEEBRIS1D-13.093-094	pCi/g	2.24E-01	1.36E-01	9.18E-02					OK	

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: ThISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	06/30/15 00:00	1.00E+00	110.81	0.00	0.00			
02	TH-228	MBL	06/30/15 00:00	1.00E+00	109.82	0.00	0.00			
03	TH-228	DUP	06/12/15 14:15	7.54E-01	95.75	0.00	0.00			
04	TH-228	DO	06/12/15 14:15	7.54E-01	110.57	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	ThISO	2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	07/13/15 11:06		A_Spec	Alpha_034	170	4.15 E+02	4.00 E-03	17.9
02	TH-228	MBL	07/13/15 11:06		A_Spec	Alpha_035	170	4.70 E-01	9.00 E-03	16.5
03	TH-228	DUP	07/13/15 11:06		A_Spec	Alpha_036	170	1.16 E+01	8.00 E-03	18.1
04	TH-228	DO	07/13/15 11:06		A_Spec	Alpha_037	170	1.17 E+01	2.00 E-03	17.1

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: ThISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.57E+00	9.83E-01	6.40E-02	5.39E+00	122.03	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	8.55E-02	7.20E-02	6.12E-02					OK	OK
03	TH-230	DUP	FEEBRIS1D-13.093-094	pCi/g	2.96E+00	6.96E-01	1.07E-01				OK	OK	
04	TH-230	DO	FEEBRIS1D-13.093-094	pCi/g	2.90E+00	6.57E-01	8.91E-02					OK	

Preliminary Data Report & Analytical Calculations
Work Order: 15-06115-ThISO-2

Run	Analysis Code	Eberline Services Work Order	Client
2	ThISO	15-06115	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	06/30/15 00:00	1.00E+00	110.81	0.00	0.00			
02	TH-230	MBL	06/30/15 00:00	1.00E+00	109.82	0.00	0.00			
03	TH-230	DUP	06/12/15 14:15	7.54E-01	95.75	0.00	0.00			
04	TH-230	DO	06/12/15 14:15	7.54E-01	110.57	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Run	Analysis Code	Eberline Services Work Order	Client
2	ThISO	15-06115	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	07/13/15 11:06		A_Spec	Alpha_034	170	4.91 E+02	2.00 E-03	17.9
02	TH-230	MBL	07/13/15 11:06		A_Spec	Alpha_035	170	5.83 E+00	1.00 E-03	16.5
03	TH-230	DUP	07/13/15 11:06		A_Spec	Alpha_036	170	1.45 E+02	3.00 E-03	18.1
04	TH-230	DO	07/13/15 11:06		A_Spec	Alpha_037	170	1.56 E+02	2.00 E-03	17.1

27109

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-06115

Analysis Code: ThISO

Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	4.81E+00	7.65E-01	8.02E-02	4.83E+00	99.68	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	-7.47E-03	2.99E-02	7.68E-02					OK	OK
03	TH-232	DUP	FEEBRIS1D-13.093-094	pCi/g	2.61E-01	1.50E-01	8.48E-02				NA	OK	
04	TH-232	DO	FEEBRIS1D-13.093-094	pCi/g	2.29E-01	1.37E-01	1.05E-01					OK	

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: ThISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	06/30/15 00:00	1.00E+00	110.81	0.00	0.00			
02	TH-232	MBL	06/30/15 00:00	1.00E+00	109.82	0.00	0.00			
03	TH-232	DUP	06/12/15 14:15	7.54E-01	95.75	0.00	0.00			
04	TH-232	DO	06/12/15 14:15	7.54E-01	110.57	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	07/13/15 11:06		A_Spec	Alpha_034	170	3.60 E+02	0.00 E+00	17.9
02	TH-232	MBL	07/13/15 11:06		A_Spec	Alpha_035	170	-5.10 E-01	3.00 E-03	16.5
03	TH-232	DUP	07/13/15 11:06		A_Spec	Alpha_036	170	1.28 E+01	1.00 E-03	18.1
04	TH-232	DO	07/13/15 11:06		A_Spec	Alpha_037	170	1.23 E+01	4.00 E-03	17.1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-06115

Analysis Code: ThISO

Run: 2

51100 :

Count Room Report
Client: AMO Environmental Decisio

15-06115-ThISO-2 (pCi/g) in SO
Tracer ID: Th-18a

Printed: 7/13/2015 5:09 AM
Page 1 of 1

2.52

#34-37

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/30/15 00:00	1.0000	0.4684	10.5203		0.00		
02	MBL	BLANK	06/30/15 00:00	1.0000	0.2340	5.2556		0.00		
03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	0.7540	0.2340	5.2556		0.00		
04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	0.7540	0.2347	5.2714		0.00		

0240

Eberline Services
Oak Ridge Laboratory

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-06115	2	ThISO	7/9/2015 9:10	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Th-228	Th-8b	103.560	7/9/2015	0.100	0.1035				4.83	0.174	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	7/9/2015	0.500	0.5083				5.39	0.145	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	7/9/2015	0.100	0.1035				4.83	0.174	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Th-229	Th-18a	22.460	7/9/2015	0.4684	0.2200
02	Th-229	Th-18a	22.460	7/9/2015	0.2340	0.2200
03	Th-229	Th-18a	22.460	7/9/2015	0.2340	0.2200
04	Th-229	Th-18a	22.460	7/9/2015	0.2347	0.2200

Balance Printer Tapes

Tracer

0.4684 g
0.2340 g
0.2340 g
0.2347 g

LCS

0.5083 g
0.1035 g

Matrix Spike

Version 2.0 08/99

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/9/2015 9:18 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06115	2	ThISO	grams	7/21/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-13.093-094	DUP		1	13.26	7.54E-02	1.0000E+01	7.5400E-01				
04	FEEBRIS1D-13.093-094	DO		1	13.26	7.54E-02	1.0000E+01	7.5400E-01				

Comments	

06115

Technician: JWolfe Date: 7/9/15

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-06115
Fraction	**> 03 <**
Analysis Code	**ThISO**
Run Number	**2**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.54**	ml	from the original sample and diluted it to	**100**	ml	0.0754
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0754**
Dilution Factor	**13.26259947**

Diluted by: JW Date: 7/9/15

50119

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-06115
Fraction	**> 04 <**
Analysis Code	**ThISO**
Run Number	**2**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.54**	ml	from the original sample and diluted it to	**100**	ml	0.0754
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0754**
Dilution Factor	**13.26259947**

00120

Diluted by: JW Date: 7/9/15

KCB 7/13/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001229
Batch Identification: 1506115B-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 123028
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/13/2015 6:37:27 AM
Acquisition Date/Time: 7/13/2015 11:06:09 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.468 mL
Effective Efficiency: 0.1982 +/- 0.0122
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 1.1081 +/- 0.0709

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 0.996824 +/- 0.086167
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.772	21.66	42.50	0.34	0.00E+000	8.0
TH-228		5.358	415.32	9.63	0.68	0.00E+000	4.9
TH-229	T	4.877	354.49	10.42	0.51	0.00E+000	9.0
TH-230		4.618	490.66	8.85	0.34	0.00E+000	16.7
TH-232		3.949	360.00	10.34	0.00	0.00E+000	18.3

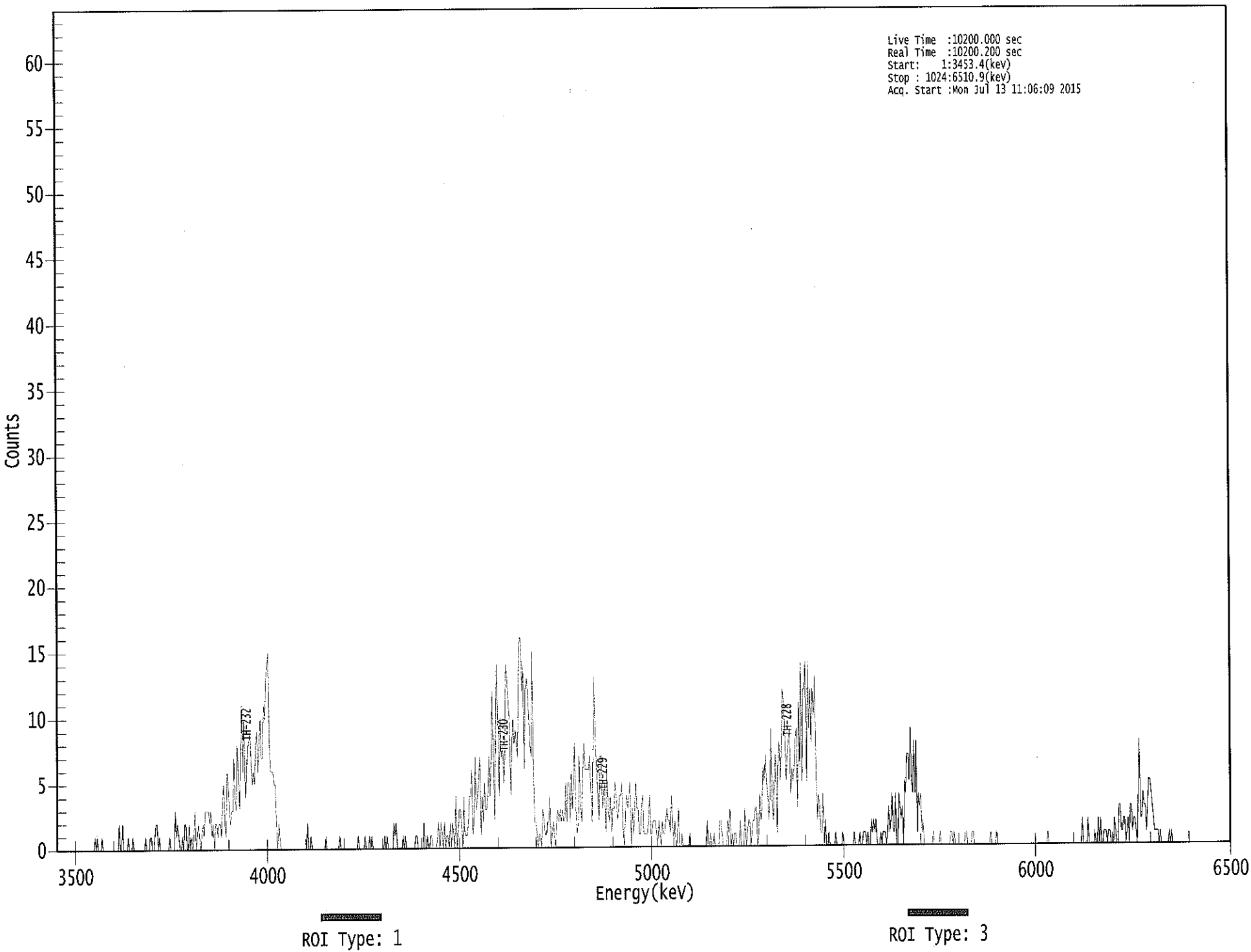
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.968	5850.00*	2.97E-001 +/- 1.31E-001	6.56E-002 +/- 7.91E-003
TH-228	0.991	5400.00*	5.56E+000 +/- 8.58E-001	7.55E-002 +/- 9.10E-003
TH-229	1.000	4872.00*	4.76E+000 +/- 5.74E-001	7.05E-002 +/- 8.50E-003
TH-230	0.985	4672.00*	6.57E+000 +/- 9.83E-001	6.40E-002 +/- 7.72E-003
TH-232	0.988	3997.00*	4.81E+000 +/- 7.65E-001	8.02E-002 +/- 9.67E-003

AG 7/13/15

0000122964.CNF



22106:

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	1	0	1	0	0	0	1
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	2	0
57:	0	2	0	0	0	0	1	0
65:	0	0	1	0	0	0	0	0
73:	0	0	0	0	0	1	0	0
81:	0	1	1	0	0	1	2	2
89:	0	1	0	0	0	0	0	0
97:	0	0	1	0	0	0	0	3
105:	1	2	1	0	0	1	0	2
113:	2	0	0	2	0	1	0	1
121:	3	0	1	2	1	0	1	2
129:	1	3	3	3	3	2	3	1
137:	2	0	2	2	1	2	2	1
145:	4	5	2	1	6	5	3	2
153:	3	3	7	4	3	8	6	3
161:	7	11	6	10	4	5	8	8
169:	9	7	5	6	5	8	9	6
177:	8	10	7	7	11	10	13	14
185:	15	8	6	6	6	5	5	2
193:	0	2	1	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	2	0	0	1	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	1	0	0	0	0	0
241:	0	0	0	0	0	0	1	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	1	0
265:	0	0	0	0	1	0	0	0
273:	1	0	1	0	0	0	0	0
281:	0	0	0	0	0	1	0	1
289:	0	0	0	0	0	2	1	2
297:	0	0	0	0	0	1	0	1
305:	0	0	0	0	0	0	0	0
313:	1	1	0	0	0	0	0	2
321:	0	0	1	0	0	1	1	0
329:	0	0	0	1	2	0	2	1
337:	0	2	0	1	1	0	2	0
345:	2	1	0	4	0	1	3	3
353:	2	0	4	1	1	1	2	4
361:	4	6	1	2	7	3	4	5

369:	7	1	4	2	5	3	3	4

Sample Title: 01

Channel								
377:	7	4	7	12	7	2	9	14
385:	10	4	10	7	8	5	7	14
393:	13	11	10	4	7	10	8	9
401:	8	7	13	16	16	12	14	6
409:	12	13	12	10	8	7	15	6
417:	2	2	1	0	1	1	0	3
425:	2	1	1	2	2	4	0	1
433:	2	1	0	2	3	2	3	2
441:	3	2	2	5	2	5	5	2
449:	6	3	5	8	3	1	2	7
457:	3	2	6	8	6	6	6	6
465:	7	4	2	8	13	8	6	4
473:	2	7	7	3	4	5	1	6
481:	3	2	4	1	3	3	5	4
489:	2	3	4	4	5	1	0	3
497:	4	3	4	5	0	3	1	3
505:	5	3	3	1	1	3	4	1
513:	1	1	1	2	4	1	1	2
521:	2	2	1	0	2	1	0	2
529:	1	1	2	3	2	2	1	4
537:	2	0	2	0	0	3	0	0
545:	1	0	0	0	0	0	0	1
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	2	0
569:	0	1	0	0	1	0	0	0
577:	0	2	2	1	0	0	0	0
585:	2	1	3	0	1	0	1	1
593:	0	0	0	2	0	0	0	3
601:	0	1	2	2	0	1	2	2
609:	3	3	0	1	4	2	3	6
617:	5	7	5	4	2	4	9	3
625:	2	6	7	1	6	8	5	8
633:	12	11	9	5	7	8	9	4
641:	6	5	6	8	9	3	11	6
649:	14	5	12	12	14	5	14	9
657:	12	8	12	10	13	7	2	4
665:	3	1	1	4	0	2	0	0
673:	1	0	0	0	0	0	1	0
681:	0	0	0	0	1	0	0	0
689:	0	0	0	0	0	0	1	0
697:	0	0	0	1	0	0	1	1
705:	1	0	1	0	0	2	1	2
713:	1	2	0	0	0	1	0	1
721:	1	1	0	1	3	1	2	4
729:	1	1	4	0	0	4	3	2
737:	3	0	5	4	7	7	5	9
745:	5	4	8	4	8	1	4	3
753:	4	1	2	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	1	0	0	0	0	0	0
777:	0	0	1	1	0	1	0	0
785:	0	0	0	0	0	0	0	1
793:	1	0	0	0	0	1	1	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	1	0	0
817:	0	0	1	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	1
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	2	0	0
897:	0	0	2	0	0	0	0	0
905:	1	0	0	2	0	2	0	0
913:	1	1	1	0	1	1	0	0
921:	0	2	1	0	0	3	3	1
929:	1	2	2	0	1	2	0	3
937:	3	1	2	2	1	0	4	8
945:	2	2	4	3	3	1	3	5
953:	5	4	3	2	1	1	1	1
961:	0	1	0	0	0	0	0	0
969:	0	1	0	1	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

LCD 7/13/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001229
Batch Identification: 1506115B-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_035
Chamber Serial Number: 04026477A
Detector Serial Number: 58771
Env. Background: System Bkgd 123029
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/13/2015 6:37:27 AM
Acquisition Date/Time: 7/13/2015 11:06:02 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.1809 +/- 0.0153
Counting Efficiency: 0.1647 +/- 0.0029 on 10/25/2014 2:34:10 PM
Chem. Recovery Factor: 1.0982 +/- 0.0950

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.815	0.66	305.43	0.34	0.00E+000	3.0
TH-228		5.386	0.47	626.93	1.53	0.00E+000	3.0
TH-229	T	4.866	161.66	15.43	0.34	0.00E+000	3.7
TH-230		4.624	5.83	82.55	0.17	0.00E+000	3.0
TH-232		3.947	-0.51	400.63	0.51	0.00E+000	0.0

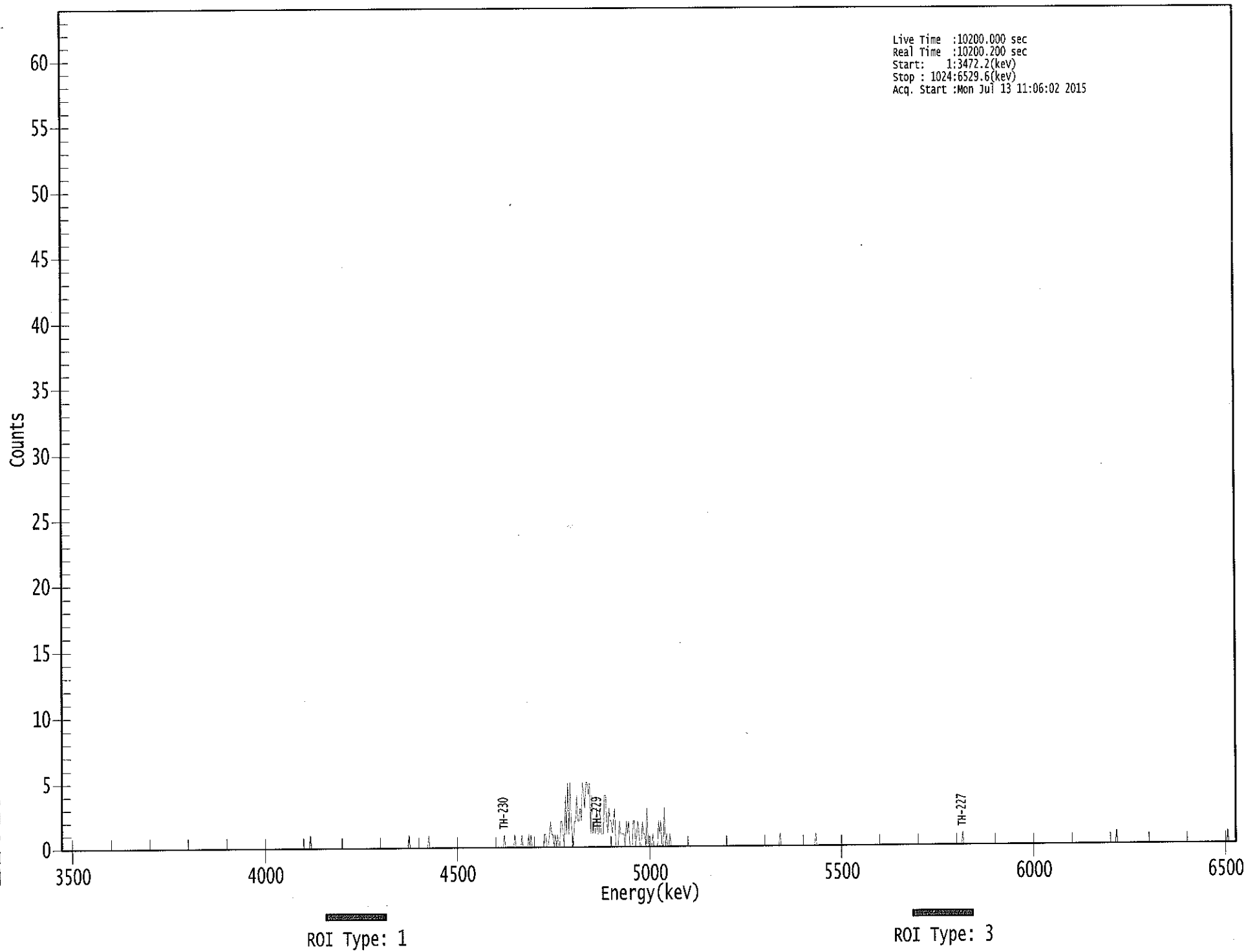
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.994	5850.00*	9.91E-003 +/- 3.03E-002	7.18E-002 +/- 1.19E-002
TH-228	0.999	5400.00*	6.89E-003 +/- 4.32E-002	1.04E-001 +/- 1.73E-002
TH-229	1.000	4872.00*	2.38E+000 +/- 3.95E-001	7.04E-002 +/- 1.17E-002
TH-230	0.988	4672.00*	8.55E-002 +/- 7.20E-002	6.12E-002 +/- 1.02E-002
TH-232	0.987	3997.00*	-7.47E-003 +/- 2.99E-002	7.68E-002 +/- 1.27E-002

AG 7/13/15

0000122965.CNF



12700 :

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	1	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	1
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	1	0	0	0	0	0	0
393:	0	0	1	0	0	0	0	0
401:	1	0	0	0	0	0	1	0
409:	1	0	0	0	0	0	0	0
417:	0	0	0	0	1	1	0	0
425:	1	2	1	1	0	1	0	1
433:	0	0	2	2	1	0	4	1
441:	5	1	5	2	1	0	2	2
449:	4	2	2	3	2	5	4	3
457:	5	5	4	5	1	4	1	2
465:	1	3	1	1	3	1	1	1
473:	4	4	2	1	3	2	2	1
481:	2	3	0	0	0	2	1	1
489:	1	1	0	2	1	2	0	0
497:	0	2	2	0	1	2	1	0
505:	0	2	1	1	0	3	0	0
513:	0	0	1	0	0	0	0	2
521:	1	2	0	0	3	0	1	0
529:	0	1	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	1	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	1	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	1
1017:	0	0	0	0	0	0	0	0

KP 7/13/15

Apex-Alpha™

Sample Description: FEEBRIS1D-13.093-094-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001229
Batch Identification: 1506115B-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 123030
Reagent Blank: <not performed>

Sample Size: 7.540E-001 +/- 0.000E+000 gram
Sample Date/Time: 6/12/2015 6:37:27 AM
Acquisition Date/Time: 7/13/2015 11:06:03 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.1729 +/- 0.0149
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 0.9575 +/- 0.0844

Peak Match Tolerance: 0.175 MeV

----- PEAK AREA REPORT -----

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.865	8.15	72.72	0.85	0.00E+000	3.0
TH-228		5.352	11.64	61.25	1.36	0.00E+000	3.0
TH-229	T	4.870	154.49	15.80	0.51	0.00E+000	5.0
TH-230		4.638	145.49	16.28	0.51	0.00E+000	17.9
TH-232		3.970	12.83	55.14	0.17	0.00E+000	4.5

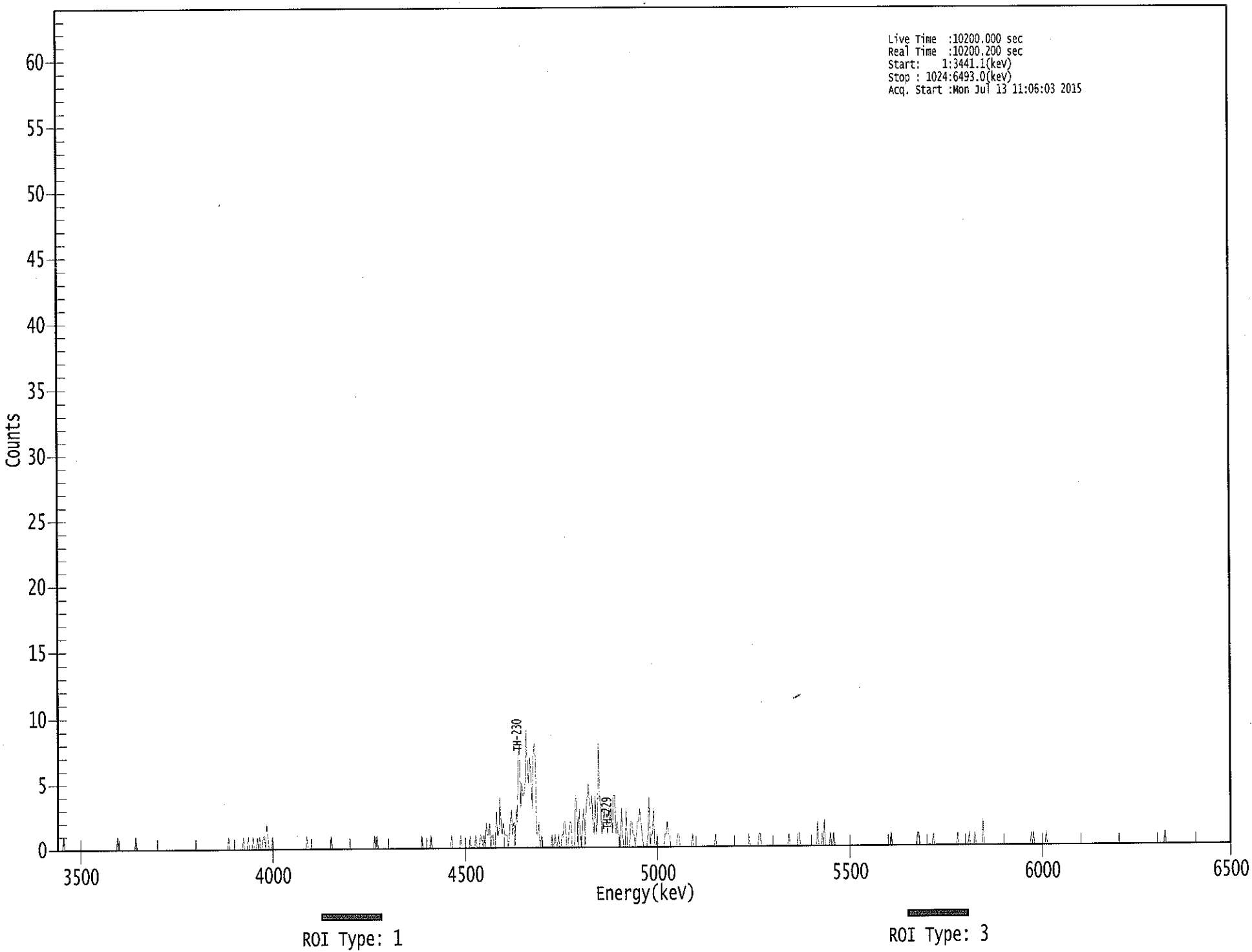
T = Tracer Peak used for Effective Efficiency

----- NUCLIDE ANALYSIS RESULTS -----

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	1.70E-001 +/- 1.27E-001	1.25E-001 +/- 2.12E-002
TH-228	0.988	5400.00*	2.44E-001 +/- 1.55E-001	1.44E-001 +/- 2.43E-002
TH-229	1.000	4872.00*	3.16E+000 +/- 5.34E-001	1.07E-001 +/- 1.81E-002
TH-230	0.994	4672.00*	2.96E+000 +/- 6.96E-001	1.07E-001 +/- 1.81E-002
TH-232	0.996	3997.00*	2.61E-001 +/- 1.50E-001	8.48E-002 +/- 1.44E-002

AG
7/13/15

0000122966.CNF



25100 :

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	1	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	1	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	1	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	1	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	1	0	0	0	1	0
169:	0	0	1	0	0	0	1	0
177:	1	0	0	1	1	0	2	1
185:	0	0	0	1	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	1	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	1	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	1	0	1	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	0	1	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	1
345:	0	0	0	0	0	0	0	1
353:	0	0	0	0	0	0	0	1
361:	0	0	0	0	1	0	0	0

369:	1	1	0	1	0	2	1	1

Sample Title: 03

Channel								
377:	2	0	1	1	0	0	3	1
385:	1	4	2	1	2	1	1	1
393:	0	1	2	3	1	2	0	3
401:	2	7	8	3	5	4	4	5
409:	9	6	5	7	6	3	7	8
417:	7	1	1	2	0	1	0	0
425:	0	0	0	0	0	0	1	0
433:	0	1	0	0	1	0	0	1
441:	1	2	2	0	0	1	2	2
449:	0	0	0	4	4	0	3	1
457:	0	2	3	0	3	4	5	3
465:	3	4	2	1	4	1	2	8
473:	4	3	1	2	3	2	2	1
481:	3	2	3	1	4	4	1	2
489:	1	1	0	3	1	0	0	3
497:	0	0	0	2	2	1	1	0
505:	1	2	2	3	2	1	0	0
513:	0	0	1	4	0	1	1	3
521:	0	0	1	0	0	0	0	0
529:	0	1	1	2	1	1	0	0
537:	0	0	0	0	1	1	0	0
545:	0	0	0	0	0	0	0	0
553:	0	1	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	1	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	1	0	0	0	0	0
609:	0	0	0	1	1	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	1	0	0
641:	0	0	0	0	0	1	1	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	2	0
665:	0	0	1	0	2	0	0	0
673:	0	1	0	0	1	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	1	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	1	1	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	1	0	0	0	0	0	0	0
793:	0	0	1	0	0	0	0	1

801:	0	0	0	0	0	0	2	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	1	0	1	0	0	0	0	0
857:	0	0	0	0	0	1	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	1	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	FEEBRIS1D-13.093-094
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001229
Batch Identification:	1506115B-TH
Sample Identification:	04
Sample Geometry:	Shelf 2
Procedure Description:	Th iso
Detector Name:	Alpha_037
Chamber Serial Number:	04026478A
Detector Serial Number:	91133
Env. Background:	System Bkgd 123031
Reagent Blank:	<not performed>
Sample Size:	7.540E-001 +/- 0.000E+000 gram
Sample Date/Time:	6/12/2015 6:37:27 AM
Acquisition Date/Time:	7/13/2015 11:06:06 AM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	Th229_S_TH-18A
Tracer Quantity:	0.235 mL
Effective Efficiency:	0.1889 +/- 0.0157
Counting Efficiency:	0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor:	1.1057 +/- 0.0939
Peak Match Tolerance:	0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.851	1.15	249.59	0.85	0.00E+000	3.0
TH-228		5.373	11.66	58.37	0.34	0.00E+000	3.0
TH-229	T	4.881	169.32	15.10	0.68	0.00E+000	5.3
TH-230		4.634	155.66	15.73	0.34	0.00E+000	5.5
TH-232		3.973	12.32	57.62	0.68	0.00E+000	3.0

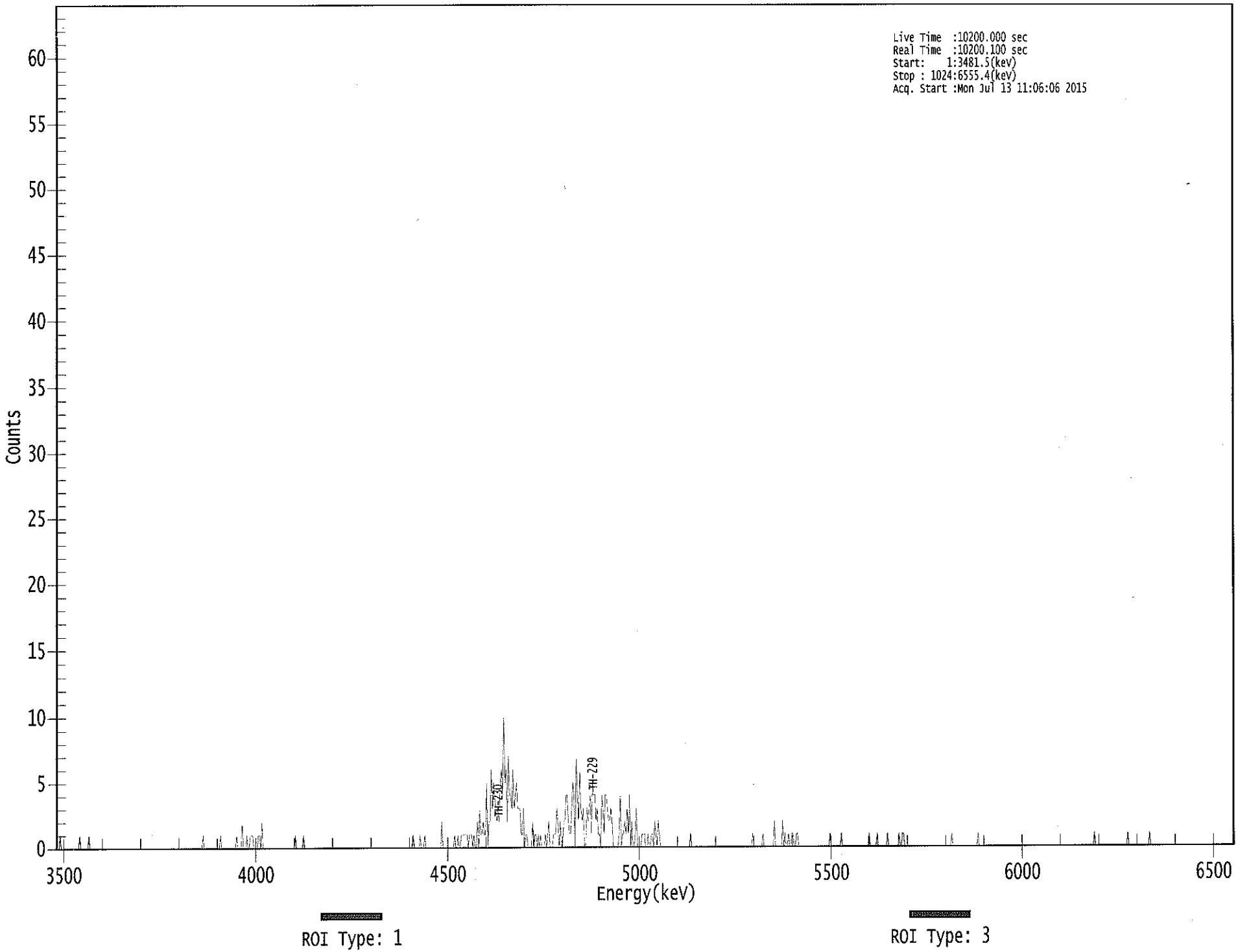
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	2.20E-002 +/- 5.50E-002	1.15E-001 +/- 1.86E-002
TH-228	0.996	5400.00*	2.24E-001 +/- 1.36E-001	9.18E-002 +/- 1.49E-002
TH-229	1.000	4872.00*	3.16E+000 +/- 5.15E-001	1.05E-001 +/- 1.72E-002
TH-230	0.993	4672.00*	2.90E+000 +/- 6.57E-001	8.91E-002 +/- 1.45E-002
TH-232	0.997	3997.00*	2.29E-001 +/- 1.37E-001	1.05E-001 +/- 1.71E-002

AG
7/13/15

0000122967.CNF



0014 27

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	0	1	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	1	0	0	0
25:	0	0	0	0	1	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	1
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	1	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	1	0	0	0
161:	0	2	0	0	0	1	0	0
169:	1	1	1	0	0	0	0	1
177:	1	0	2	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	1
209:	0	0	0	0	0	0	1	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	1	0	0	0	1
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	2	0
337:	0	0	0	0	0	0	0	0
345:	0	1	0	0	1	0	0	1
353:	1	1	1	1	1	0	1	1
361:	1	0	1	0	0	2	0	3

369:	1	1	2	1	1	5	0	2

Sample Title: 04

Channel								
377:	2	6	3	5	4	3	2	3
385:	2	5	6	4	10	5	6	2
393:	7	4	4	3	6	3	4	5
401:	3	3	3	1	1	3	0	1
409:	1	0	0	0	0	2	0	1
417:	1	0	1	0	1	0	0	0
425:	1	0	1	2	0	0	0	1
433:	1	1	3	2	0	2	0	0
441:	2	2	4	4	2	1	1	3
449:	5	4	0	7	4	2	6	3
457:	2	3	0	0	3	2	3	4
465:	1	5	4	4	2	3	1	1
473:	0	4	3	1	4	4	3	2
481:	2	3	2	0	0	0	0	0
489:	1	4	0	1	1	2	1	3
497:	1	4	0	2	0	0	1	3
505:	0	0	0	0	1	1	1	0
513:	0	1	0	0	1	1	0	2
521:	1	0	2	1	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	1	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	1	0	0	0
609:	0	0	0	0	0	1	0	0
617:	0	0	0	0	0	0	0	2
625:	0	0	0	0	0	0	2	0
633:	1	0	0	1	0	0	1	1
641:	0	0	1	1	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	1
673:	0	0	0	0	0	0	0	0
681:	0	1	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	1	0	0	0	0	0	0
713:	1	0	0	0	0	0	0	0
721:	0	1	0	0	0	0	0	0
729:	0	0	0	1	0	0	1	1
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	1	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	1	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	1	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	1	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	1	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/13/2015 5:40:49 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 7/13/2015
Time : 5:40:49 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/13/2015 5:25:36 AM
Alpha_004	21f	ALL	Passed	7/13/2015 5:25:37 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/13/2015 5:25:38 AM
Alpha_011	21f	ALL	Passed	7/13/2015 5:25:39 AM
Alpha_012	21f	ALL	Passed	7/13/2015 5:25:40 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/13/2015 5:25:40 AM
Alpha_015	21f	Peak Energy	Action	7/13/2015 5:25:41 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:42 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:44 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:45 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:47 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:48 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	7/13/2015 5:25:50 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:51 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:53 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:54 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:56 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:58 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:25:59 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:01 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:03 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:04 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:06 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:08 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:10 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:12 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:14 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:15 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	7/13/2015 5:26:17 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:20 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:21 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:23 AM

Review of QA Results - Pulser Check

7/13/2015 5:40:49 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:25 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/13/2015 5:26:27 AM

APPROVED BY: _____

APPROVAL DATE: 7/13

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-06115
Gamma
Run 1

Work Order	15-06115
Analysis Code	Gamma
Run	1
Date Received	6/29/2015
Lab Deadline	7/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/30/15 00:00	1.0000E+00
02	MBL	BLANK		06/30/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-13.093-094	57	06/12/15 14:15	6.1623E+02
04	DO	FEEBRIS1D-13.093-094	57	06/12/15 14:15	6.1623E+02

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-06115
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

: 00146

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-06115
Gamma
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	07/01/15 07:34	KSALLINGS						

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

: 00147

Eberline Services
Oak Ridge Laboratory

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.37E+02	8.83E+00	6.96E-01	1.37E+02	100.25	OK		06/30/15 00:00	1.00E+00	07/21/15 06:07	YES
01	CS-137	LCS	LCS	pCi/g	8.69E+01	7.40E+00	1.01E+00	8.69E+01	100.01	OK		06/30/15 00:00	1.00E+00	07/21/15 06:07	YES
02	AC-228	MBL	BLANK	pCi/g	3.60E-02	5.44E-02	1.24E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	BI-214	MBL	BLANK	pCi/g	4.22E-02	3.59E-02	7.54E-02					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	PB-212	MBL	BLANK	pCi/g	3.91E-02	3.05E-02	5.51E-02					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	PB-214	MBL	BLANK	pCi/g	-3.08E-02	5.41E-02	7.66E-02					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	RA-226	MBL	BLANK	pCi/g	4.22E-02	3.59E-02	7.54E-02					06/30/15 00:00	1.00E+00	07/21/16 06:07	NO
02	RA-228	MBL	BLANK	pCi/g	3.60E-02	5.44E-02	1.24E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	TH-234	MBL	BLANK	pCi/g	8.75E-01	3.96E-01	6.63E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	TL-208	MBL	BLANK	pCi/g	1.31E-02	6.46E-02	1.07E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
03	AC-228	DUP	FEEBRIS1D-13.093-094	pCi/g	3.87E-01	2.05E-01	3.57E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	BI-214	DUP	FEEBRIS1D-13.093-094	pCi/g	3.29E+00	2.58E-01	2.30E-01				NA	06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	PB-212	DUP	FEEBRIS1D-13.093-094	pCi/g	5.52E-01	1.02E-01	2.65E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	PB-214	DUP	FEEBRIS1D-13.093-094	pCi/g	3.52E+00	2.80E-01	2.40E-01				NA	06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	RA-226	DUP	FEEBRIS1D-13.093-094	pCi/g	3.29E+00	2.58E-01	2.30E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	RA-228	DUP	FEEBRIS1D-13.093-094	pCi/g	3.87E-01	2.05E-01	3.57E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	TH-234	DUP	FEEBRIS1D-13.093-094	pCi/g	2.97E+00	1.50E+00	2.44E+00				NA	06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	TL-208	DUP	FEEBRIS1D-13.093-094	pCi/g	4.82E-01	1.15E-01	8.59E-02					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
04	AC-228	DO	FEEBRIS1D-13.093-094	pCi/g	4.63E-01	1.72E-01	3.58E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	BI-214	DO	FEEBRIS1D-13.093-094	pCi/g	3.27E+00	2.60E-01	1.57E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	PB-212	DO	FEEBRIS1D-13.093-094	pCi/g	5.72E-01	1.09E-01	2.69E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	PB-214	DO	FEEBRIS1D-13.093-094	pCi/g	3.47E+00	2.76E-01	2.23E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	RA-226	DO	FEEBRIS1D-13.093-094	pCi/g	3.27E+00	2.60E-01	1.57E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	RA-228	DO	FEEBRIS1D-13.093-094	pCi/g	4.63E-01	1.72E-01	3.58E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	TH-234	DO	FEEBRIS1D-13.093-094	pCi/g	2.49E+00	1.21E+00	2.79E+00					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	TL-208	DO	FEEBRIS1D-13.093-094	pCi/g	3.99E-01	9.06E-02	1.19E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES

001153

Count Room Report
Client: AMO Environmental Decisio

15-06115-Gamma-1 (pCi/g) in SO
Tracer ID:

Printed: 7/1/2015 9:47 AM

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/30/15 00:00	1.0000				0.00		
02	MBL	BLANK	06/30/15 00:00	1.0000				0.00		
03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	616.2300				0.00		
04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	616.2300				0.00		

SH100 :

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty*, % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY HEALTH PHYSICS SOCIETY FOUNDED 1956

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00150

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/1/2015 9:47 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-06115	1	Gamma	grams	7/21/2015	KSALLINGS

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data	Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
			Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-13.093-094	DUP					6.1623E+02	6.1623E+02				
04	FEEBRIS1D-13.093-094	DO					6.1623E+02	6.1623E+02				

Comments	

15-06115

Technician: Kenny Sallings Date: 7/1/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/1/2015 7:34 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-06115	7/21/2015	6/30/2015	7/1/2015	7/2/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-13.093-094	14.4400	829.6200	714.9900	815.1800	700.5500	14.06%	85.94%			

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

60152

Technician: Kenny Sallings Date: Analysis: Rough Prep Logbook

Analysis: Gamma Page No. 9331

Apex-Gamma

Analysis Report for 1506115-01
GAS-1302

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506115-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 5:11:05AM
Acquisition Started	: 7/21/2015 6:07:34AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1822.0 seconds
Dead Time	: 1.21 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24876

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

NG 7/22/15

Analysis Report for 1506115-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 7/21/2015 6:38:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	22.16	22.28	0.0000	0.00
2	24.65	24.77	0.0000	0.00
3	32.39	32.51	0.0000	0.00
4	51.49	51.59	0.0000	0.00
5	59.64	59.74	0.0000	0.00
6	67.70	67.80	0.0000	0.00
7	88.13	88.22	0.0000	0.00
8	122.13	122.19	0.0000	0.00
9	136.64	136.69	0.0000	0.00
10	165.95	165.98	0.0000	0.00
11	310.45	310.40	0.0000	0.00
12	391.82	391.73	0.0000	0.00
13	510.72	510.58	0.0000	0.00
14	583.74	583.56	0.0000	0.00
15	661.78	661.57	0.0000	0.00
16	898.04	897.72	0.0000	0.00
17	911.11	910.78	0.0000	0.00
18	1082.79	1082.39	0.0000	0.00
19	1108.34	1107.94	0.0000	0.00
20	1136.45	1136.04	0.0000	0.00
21	1173.48	1173.05	0.0000	0.00
22	1250.84	1250.39	0.0000	0.00
23	1332.75	1332.27	0.0000	0.00
24	1337.48	1337.00	0.0000	0.00
25	1475.45	1474.92	0.0000	0.00
26	1655.63	1655.05	0.0000	0.00
27	1767.88	1767.28	0.0000	0.00
28	1836.29	1835.67	0.0000	0.00
29	1888.79	1888.16	0.0000	0.00
30	2294.26	2293.56	0.0000	0.00
31	2416.60	2415.88	0.0000	0.00
32	2505.54	2504.81	0.0000	0.00
33	2613.97	2613.23	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506115-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 6:38:00AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	22.16	19 -	29	22.28	1.25E+05	745.81	1.35E+04	1.33
m	2	24.65	19 -	29	24.77	3.48E+04	604.48	8.23E+03	1.33
	3	32.39	30 -	35	32.51	2.21E+03	253.17	1.11E+04	1.88
M	4	51.49	46 -	62	51.59	8.02E+03	511.22	3.25E+04	2.60
m	5	59.64	46 -	62	59.74	9.35E+04	675.20	1.73E+04	1.52
	6	67.70	66 -	71	67.80	4.49E+02	357.46	2.54E+04	2.30
	7	88.13	84 -	91	88.22	4.54E+04	586.50	2.69E+04	1.40
	8	122.13	118 -	125	122.19	1.10E+04	368.08	1.52E+04	1.42
	9	136.64	133 -	140	136.69	1.32E+03	291.38	1.32E+04	1.70
	10	165.95	162 -	169	165.98	1.87E+03	286.53	1.24E+04	1.26
	11	310.45	309 -	313	310.40	1.59E+02	151.97	4.98E+03	1.52
	12	391.82	388 -	394	391.73	7.13E+02	198.26	6.63E+03	1.46
	13	510.72	508 -	513	510.58	1.77E+02	146.46	4.15E+03	3.98
	14	583.74	581 -	586	583.56	1.34E+02	125.27	3.02E+03	3.09
	15	661.78	656 -	667	661.57	3.01E+04	406.72	5.58E+03	2.00
	16	898.04	894 -	902	897.72	6.69E+02	195.48	5.47E+03	1.69
	17	911.11	908 -	914	910.78	1.68E+02	154.09	4.20E+03	3.61
	18	1082.79	1080 -	1085	1082.39	1.18E+02	115.09	2.55E+03	3.72
	19	1108.34	1105 -	1112	1107.94	1.29E+02	146.41	3.48E+03	4.19
	20	1136.45	1133 -	1140	1136.04	1.08E+02	115.55	2.16E+03	5.00
	21	1173.48	1167 -	1178	1173.05	2.82E+04	366.94	2.74E+03	2.01
	22	1250.84	1248 -	1253	1250.39	5.29E+01	43.36	3.30E+02	2.72
M	23	1332.75	1326 -	1339	1332.27	2.57E+04	324.92	3.58E+02	2.17
m	24	1337.48	1326 -	1339	1337.00	3.79E+01	40.36	1.00E+02	2.24
	25	1475.45	1466 -	1484	1474.92	6.27E+01	64.69	3.43E+02	16.04
	26	1655.63	1649 -	1663	1655.05	4.03E+01	49.44	2.41E+02	4.13
m	27	1767.88	1762 -	1777	1767.28	2.02E+01	25.65	5.85E+01	3.31
	28	1836.29	1830 -	1843	1835.67	4.50E+02	52.45	1.09E+02	2.63
	29	1888.79	1885 -	1891	1888.16	1.66E+01	17.29	4.27E+01	3.49
	30	2294.26	2286 -	2299	2293.56	2.71E+01	32.36	1.02E+02	8.77
	31	2416.60	2413 -	2418	2415.88	7.40E+00	7.62	5.20E+00	1.32
	32	2505.54	2499 -	2509	2504.81	3.03E+02	35.95	1.10E+01	3.28
	33	2613.97	2609 -	2617	2613.23	2.76E+01	11.84	4.70E+00	4.47

Analysis Report for 1506115-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 6:38:00AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	22.16	19 -	29	1.25E+05	745.81	1.35E+04	1.91E+02
m	2	24.65	19 -	29	3.48E+04	604.48	8.23E+03	1.49E+02
	3	32.39	30 -	35	2.21E+03	253.17	1.11E+04	1.93E+02
M	4	51.49	46 -	62	8.02E+03	511.22	3.25E+04	2.96E+02
m	5	59.64	46 -	62	9.35E+04	675.20	1.73E+04	2.16E+02
	6	67.70	66 -	71	4.49E+02	357.46	2.54E+04	2.92E+02
	7	88.13	84 -	91	4.54E+04	586.50	2.69E+04	3.31E+02
	8	122.13	118 -	125	1.10E+04	368.08	1.52E+04	2.49E+02
	9	136.64	133 -	140	1.32E+03	291.38	1.32E+04	2.32E+02
	10	165.95	162 -	169	1.87E+03	286.53	1.24E+04	2.25E+02
	11	310.45	309 -	313	1.59E+02	151.97	4.98E+03	1.23E+02
	12	391.82	388 -	394	7.13E+02	198.26	6.63E+03	1.57E+02
	13	510.72	508 -	513	1.77E+02	146.46	4.15E+03	1.18E+02
	14	583.74	581 -	586	1.34E+02	125.27	3.02E+03	1.01E+02
	15	661.78	656 -	667	3.01E+04	406.72	5.58E+03	1.74E+02
	16	898.04	894 -	902	6.69E+02	195.48	5.47E+03	1.55E+02
	17	911.11	908 -	914	1.68E+02	154.09	4.20E+03	1.25E+02
	18	1082.79	1080 -	1085	1.18E+02	115.09	2.55E+03	9.29E+01
	19	1108.34	1105 -	1112	1.29E+02	146.41	3.48E+03	1.19E+02
	20	1136.45	1133 -	1140	1.08E+02	115.55	2.16E+03	9.34E+01
	21	1173.48	1167 -	1178	2.82E+04	366.94	2.74E+03	1.22E+02
	22	1250.84	1248 -	1253	5.29E+01	43.36	3.30E+02	3.36E+01
M	23	1332.75	1326 -	1339	2.57E+04	324.92	3.58E+02	3.11E+01
m	24	1337.48	1326 -	1339	3.79E+01	40.36	1.00E+02	1.65E+01
	25	1475.45	1466 -	1484	6.27E+01	64.69	3.43E+02	5.16E+01
	26	1655.63	1649 -	1663	4.03E+01	49.44	2.41E+02	1.11E+01
m	27	1767.88	1762 -	1777	2.02E+01	25.65	5.85E+01	1.26E+01
	28	1836.29	1830 -	1843	4.50E+02	52.45	1.09E+02	2.54E+01
	29	1888.79	1885 -	1891	1.66E+01	17.29	4.27E+01	1.25E+01
	30	2294.26	2286 -	2299	2.71E+01	32.36	1.02E+02	2.52E+01
	31	2416.60	2413 -	2418	7.40E+00	7.62	5.20E+00	4.38E+00

Analysis Report for 1506115-01

GAS-1302

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	2505.54	2499 -	2509	3.03E+02	35.95	1.10E+01	7.47E+00
33	2613.97	2609 -	2617	2.76E+01	11.84	4.70E+00	4.48E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/21/2015 6:38:00AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	22.16	19 -	29	22.28	1.25E+05	745.81	1.35E+04	.....
m	2	24.65	19 -	29	24.77	3.48E+04	604.48	8.23E+03	TH-231
	3	32.39	30 -	35	32.51	2.21E+03	253.17	1.11E+04	.....
M	4	51.49	46 -	62	51.59	8.02E+03	511.22	3.25E+04	.....
m	5	59.64	46 -	62	59.74	9.35E+04	675.20	1.73E+04	AM-241
	6	67.70	66 -	71	67.80	4.49E+02	357.46	2.54E+04	TH-230 TA-182 TI-44 TM-171
	7	88.13	84 -	91	88.22	4.54E+04	586.50	2.69E+04	CD-109 LU-176 SN-126
	8	122.13	118 -	125	122.19	1.10E+04	368.08	1.52E+04	CO-57 EU-152 EU-154
	9	136.64	133 -	140	136.69	1.32E+03	291.38	1.32E+04	CO-57 SE-75
	10	165.95	162 -	169	165.98	1.87E+03	286.53	1.24E+04	CE-139
	11	310.45	309 -	313	310.40	1.59E+02	151.97	4.98E+03	.....
	12	391.82	388 -	394	391.73	7.13E+02	198.26	6.63E+03	SN-113
	13	510.72	508 -	513	510.58	1.77E+02	146.46	4.15E+03	.....
	14	583.74	581 -	586	583.56	1.34E+02	125.27	3.02E+03	TL-208
	15	661.78	656 -	667	661.57	3.01E+04	406.72	5.58E+03	CS-137
	16	898.04	894 -	902	897.72	6.69E+02	195.48	5.47E+03	Y-88

Analysis Report for 1506115-01

GAS-1302

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	17	911.11	908 -	914	910.78	1.68E+02	154.09	4.20E+03	AC-228
	18	1082.79	1080 -	1085	1082.39	1.18E+02	115.09	2.55E+03	.....
	19	1108.34	1105 -	1112	1107.94	1.29E+02	146.41	3.48E+03	.....
	20	1136.45	1133 -	1140	1136.04	1.08E+02	115.55	2.16E+03	.....
	21	1173.48	1167 -	1178	1173.05	2.82E+04	366.94	2.74E+03	CO-60
	22	1250.84	1248 -	1253	1250.39	5.29E+01	43.36	3.30E+02	.....
M	23	1332.75	1326 -	1339	1332.27	2.57E+04	324.92	3.58E+02	CO-60
m	24	1337.48	1326 -	1339	1337.00	3.79E+01	40.36	1.00E+02	.....
	25	1475.45	1466 -	1484	1474.92	6.27E+01	64.69	3.43E+02	.....
	26	1655.63	1649 -	1663	1655.05	4.03E+01	49.44	2.41E+02	.....
m	27	1767.88	1762 -	1777	1767.28	2.02E+01	25.65	5.85E+01	.....
	28	1836.29	1830 -	1843	1835.67	4.50E+02	52.45	1.09E+02	Y-88
	29	1888.79	1885 -	1891	1888.16	1.66E+01	17.29	4.27E+01	.....
	30	2294.26	2286 -	2299	2293.56	2.71E+01	32.36	1.02E+02	.....
	31	2416.60	2413 -	2418	2415.88	7.40E+00	7.62	5.20E+00	.....
	32	2505.54	2499 -	2509	2504.81	3.03E+02	35.95	1.10E+01	.....
	33	2613.97	2609 -	2617	2613.23	2.76E+01	11.84	4.70E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/21/2015 6:38:00AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	22.16	1.25E+05	745.81	1.32E-04	1.68E-03
m	2	24.65	3.48E+04	604.48	3.87E-04	1.68E-03
	3	32.39	2.21E+03	253.17	2.97E-03	1.68E-03
M	4	51.49	8.02E+03	511.22	1.71E-02	1.68E-03
m	5	59.64	9.35E+04	675.20	2.21E-02	1.69E-03
	6	67.70	4.49E+02	357.46	2.54E-02	2.49E-03
	7	88.13	4.54E+04	586.50	2.84E-02	4.50E-03
	8	122.13	1.10E+04	368.08	2.67E-02	2.99E-03
	9	136.64	1.32E+03	291.38	2.53E-02	2.55E-03
	10	165.95	1.87E+03	286.53	2.27E-02	1.67E-03
	11	310.45	1.59E+02	151.97	1.50E-02	1.41E-03
	12	391.82	7.13E+02	198.26	1.27E-02	1.02E-03
	13	510.72	1.77E+02	146.46	1.06E-02	8.99E-04

Analysis Report for 1506115-01

GAS-1302

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	14	583.74	1.34E+02	125.27	9.57E-03	8.24E-04
	15	661.78	3.01E+04	406.72	8.70E-03	7.45E-04
	16	898.04	6.69E+02	195.48	6.83E-03	5.93E-04
	17	911.11	1.68E+02	154.09	6.75E-03	5.87E-04
	18	1082.79	1.18E+02	115.09	5.86E-03	4.99E-04
	19	1108.34	1.29E+02	146.41	5.75E-03	4.86E-04
	20	1136.45	1.08E+02	115.55	5.64E-03	4.72E-04
	21	1173.48	2.82E+04	366.94	5.50E-03	4.53E-04
	22	1250.84	5.29E+01	43.36	5.23E-03	4.89E-04
M	23	1332.75	2.57E+04	324.92	4.99E-03	5.26E-04
m	24	1337.48	3.79E+01	40.36	4.97E-03	5.24E-04
	25	1475.45	6.27E+01	64.69	4.64E-03	4.67E-04
	26	1655.63	4.03E+01	49.44	4.32E-03	3.93E-04
m	27	1767.88	2.02E+01	25.65	4.18E-03	3.46E-04
	28	1836.29	4.50E+02	52.45	4.11E-03	3.18E-04
	29	1888.79	1.66E+01	17.29	4.07E-03	3.18E-04
	30	2294.26	2.71E+01	32.36	3.93E-03	3.18E-04
	31	2416.60	7.40E+00	7.62	3.95E-03	3.18E-04
	32	2505.54	3.03E+02	35.95	3.99E-03	3.18E-04
	33	2613.97	2.76E+01	11.84	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/21/2015 6:38:00AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	22.16	1.25E+05	745.81			1.25E+05	7.46E+02
m	2	24.65	3.48E+04	604.48			3.48E+04	6.04E+02
	3	32.39	2.21E+03	253.17			2.21E+03	2.53E+02
M	4	51.49	8.02E+03	511.22			8.02E+03	5.11E+02
m	5	59.64	9.35E+04	675.20			9.35E+04	6.75E+02
	6	67.70	4.49E+02	357.46			4.49E+02	3.57E+02
	7	88.13	4.54E+04	586.50			4.54E+04	5.87E+02
	8	122.13	1.10E+04	368.08			1.10E+04	3.68E+02
	9	136.64	1.32E+03	291.38			1.32E+03	2.91E+02
	10	165.95	1.87E+03	286.53			1.87E+03	2.87E+02

Analysis Report for 1506115-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	11	310.45	1.59E+02	151.97			1.59E+02	1.52E+02
	12	391.82	7.13E+02	198.26			7.13E+02	1.98E+02
	13	510.72	1.77E+02	146.46	4.50E+01	2.84E+00	1.32E+02	1.46E+02
	14	583.74	1.34E+02	125.27	3.99E+00	1.94E+00	1.30E+02	1.25E+02
	15	661.78	3.01E+04	406.72	3.12E+00	1.77E+00	3.01E+04	4.07E+02
	16	898.04	6.69E+02	195.48			6.69E+02	1.95E+02
	17	911.11	1.68E+02	154.09	1.83E+00	1.34E+00	1.66E+02	1.54E+02
	18	1082.79	1.18E+02	115.09			1.18E+02	1.15E+02
	19	1108.34	1.29E+02	146.41			1.29E+02	1.46E+02
	20	1136.45	1.08E+02	115.55			1.08E+02	1.16E+02
	21	1173.48	2.82E+04	366.94	2.44E+00	1.40E+00	2.82E+04	3.67E+02
	22	1250.84	5.29E+01	43.36			5.29E+01	4.34E+01
M	23	1332.75	2.57E+04	324.92	2.23E+00	1.31E+00	2.57E+04	3.25E+02
m	24	1337.48	3.79E+01	40.36			3.79E+01	4.04E+01
	25	1475.45	6.27E+01	64.69			6.27E+01	6.47E+01
	26	1655.63	4.03E+01	49.44			4.03E+01	4.94E+01
m	27	1767.88	2.02E+01	25.65			2.02E+01	2.57E+01
	28	1836.29	4.50E+02	52.45			4.50E+02	5.24E+01
	29	1888.79	1.66E+01	17.29			1.66E+01	1.73E+01
	30	2294.26	2.71E+01	32.36			2.71E+01	3.24E+01
	31	2416.60	7.40E+00	7.62			7.40E+00	7.62E+00
	32	2505.54	3.03E+02	35.95			3.03E+02	3.60E+01
	33	2613.97	2.76E+01	11.84	3.15E+00	8.43E-01	2.45E+01	1.19E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/21/2015 6:38:00AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	22.16	1.25E+05	745.81			1.25E+05	7.46E+02
m	2	24.65	3.48E+04	604.48			3.48E+04	6.04E+02
	3	32.39	2.21E+03	253.17			2.21E+03	2.53E+02
M	4	51.49	8.02E+03	511.22			8.02E+03	5.11E+02
m	5	59.64	9.35E+04	675.20			9.35E+04	6.75E+02

Analysis Report for 1506115-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	6	67.70	4.49E+02	357.46			4.49E+02	3.57E+02
	7	88.13	4.54E+04	586.50			4.54E+04	5.87E+02
	8	122.13	1.10E+04	368.08			1.10E+04	3.68E+02
	9	136.64	1.32E+03	291.38			1.32E+03	2.91E+02
	10	165.95	1.87E+03	286.53			1.87E+03	2.87E+02
	11	310.45	1.59E+02	151.97			1.59E+02	1.52E+02
	12	391.82	7.13E+02	198.26			7.13E+02	1.98E+02
	13	510.72	1.77E+02	146.46	4.50E+01	2.84E+00	1.32E+02	1.46E+02
	14	583.74	1.34E+02	125.27	3.99E+00	1.94E+00	1.30E+02	1.25E+02
	15	661.78	3.01E+04	406.72	3.12E+00	1.77E+00	3.01E+04	4.07E+02
	16	898.04	6.69E+02	195.48			6.69E+02	1.95E+02
	17	911.11	1.68E+02	154.09	1.83E+00	1.34E+00	1.66E+02	1.54E+02
	18	1082.79	1.18E+02	115.09			1.18E+02	1.15E+02
	19	1108.34	1.29E+02	146.41			1.29E+02	1.46E+02
	20	1136.45	1.08E+02	115.55			1.08E+02	1.16E+02
	21	1173.48	2.82E+04	366.94	2.44E+00	1.40E+00	2.82E+04	3.67E+02
	22	1250.84	5.29E+01	43.36			5.29E+01	4.34E+01
M	23	1332.75	2.57E+04	324.92	2.23E+00	1.31E+00	2.57E+04	3.25E+02
m	24	1337.48	3.79E+01	40.36			3.79E+01	4.04E+01
	25	1475.45	6.27E+01	64.69			6.27E+01	6.47E+01
	26	1655.63	4.03E+01	49.44			4.03E+01	4.94E+01
m	27	1767.88	2.02E+01	25.65			2.02E+01	2.57E+01
	28	1836.29	4.50E+02	52.45			4.50E+02	5.24E+01
	29	1888.79	1.66E+01	17.29			1.66E+01	1.73E+01
	30	2294.26	2.71E+01	32.36			2.71E+01	3.24E+01
	31	2416.60	7.40E+00	7.62			7.40E+00	7.62E+00
	32	2505.54	3.03E+02	35.95			3.03E+02	3.60E+01
	33	2613.97	2.76E+01	11.84	3.15E+00	8.43E-01	2.45E+01	1.19E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.961	122.06	*	85.51	6.72E+01	7.87E+00
		136.48	*	10.60	6.84E+01	1.68E+01
CO-60	0.988	1173.22	*	100.00	1.37E+02	1.14E+01

Analysis Report for 1506115-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-60	0.988	1332.49	*	100.00	1.38E+02	1.47E+01
Y-88	0.776	898.02	*	93.40	2.81E+02	8.57E+01
		1836.01	*	99.38	2.95E+02	4.12E+01
CD-109	0.985	88.03	*	3.72	2.68E+03	4.55E+02
SN-113	0.764	255.12		1.93		
		391.69	*	64.90	1.61E+02	4.69E+01
SN-126	0.950	87.57	*	37.00	8.79E+01	1.40E+01
CS-137	0.997	661.65	*	85.12	8.69E+01	7.55E+00
CE-139	0.861	165.85	*	80.35	9.17E+01	1.56E+01
TM-171	0.852	66.72	*	0.14	5.41E+02	4.34E+02
TL-208	0.831	583.14	*	30.22	9.18E-01	8.87E-01
		860.37		4.48		
		2614.66	*	35.85	3.44E-01	1.69E-01
AM-241	0.998	59.54	*	35.90	2.42E+02	1.86E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 6:38:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	22.16	6.95600E+01	0.30		
m	2	24.65	1.93200E+01	0.87	Tol.	TH-231
	3	32.39	1.22604E+00	5.74		
M	4	51.49	4.45649E+00	3.19		
	11	310.45	8.82249E-02	47.85	D-Esc	
	13	510.72	7.34654E-02	55.39		
	17	911.11	9.20924E-02	46.48	Tol.	AC-228
	18	1082.79	6.56262E-02	48.71		
	19	1108.34	7.14918E-02	56.89		
	20	1136.45	5.98838E-02	53.60		
	22	1250.84	2.93833E-02	40.99		
m	24	1337.48	2.10280E-02	53.31		
	25	1475.45	3.48172E-02	51.61		
	26	1655.63	2.23861E-02	61.34		
m	27	1767.88	1.11962E-02	63.64		

Analysis Report for 1506115-01
GAS-1302

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
29	1888.79	9.23977E-03	51.98		
30	2294.26	1.50392E-02	59.76		
31	2416.60	4.11111E-03	51.46		
32	2505.54	1.68056E-01	5.94	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.96	122.06	*	85.51	6.72E+01	7.87E+00
		136.48	*	10.60	6.84E+01	1.68E+01
CO-60	0.98	1173.22	*	100.00	1.37E+02	1.14E+01
		1332.49	*	100.00	1.38E+02	1.47E+01
Y-88	0.77	898.02	*	93.40	2.81E+02	8.57E+01
		1836.01	*	99.38	2.95E+02	4.12E+01
CD-109	0.98	88.03	*	3.72	2.68E+03	4.55E+02
SN-113	0.76	255.12		1.93		
		391.69	*	64.90	1.61E+02	4.69E+01
SN-126	0.95	87.57	*	37.00	8.79E+01	1.40E+01
CS-137	0.99	661.65	*	85.12	8.69E+01	7.55E+00
CE-139	0.86	165.85	*	80.35	9.17E+01	1.56E+01
TM-171	0.85	66.72	*	0.14	5.41E+02	4.34E+02
TL-208	0.83	583.14	*	30.22	9.18E-01	8.87E-01
		860.37		4.48		
		2614.66	*	35.85	3.44E-01	1.69E-01
AM-241	0.99	59.54	*	35.90	2.42E+02	1.86E+01

Analysis Report for 1506115-01
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* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.961	6.74E+01	7.14E+00	
	CO-60	0.988	1.37E+02	9.02E+00	
	Y-88	0.776	2.92E+02	3.72E+01	
?	CD-109	0.985	2.68E+03	4.55E+02	
	SN-113	0.764	1.61E+02	4.69E+01	
?	SN-126	0.950	8.79E+01	1.40E+01	
	CS-137	0.997	8.69E+01	7.55E+00	
	CE-139	0.861	9.17E+01	1.56E+01	
	TM-171	0.852	5.41E+02	4.34E+02	
	TL-208	0.831	3.64E-01	1.66E-01	
	AM-241	0.998	2.42E+02	1.86E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 6:38:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	22.16	6.95600E+01	0.30		
m	2	24.65	1.93200E+01	0.87	Tol.	TH-231
	3	32.39	1.22604E+00	5.74		
M	4	51.49	4.45649E+00	3.19		
	11	310.45	8.82249E-02	47.85	D-Esc	
	13	510.72	7.34654E-02	55.39		
	17	911.11	9.20924E-02	46.48	Tol.	AC-228
	18	1082.79	6.56262E-02	48.71		
	19	1108.34	7.14918E-02	56.89		
	20	1136.45	5.98838E-02	53.60		
	22	1250.84	2.93833E-02	40.99		
m	24	1337.48	2.10280E-02	53.31		
	25	1475.45	3.48172E-02	51.61		
	26	1655.63	2.23861E-02	61.34		
m	27	1767.88	1.11962E-02	63.64		
	29	1888.79	9.23977E-03	51.98		
	30	2294.26	1.50392E-02	59.76		
	31	2416.60	4.11111E-03	51.46		
	32	2505.54	1.68056E-01	5.94	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1506115-01

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		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	1.32E+04	6.62E+04	6.62E+04
+		NA-22	1274.54		99.94	5.27E-02	4.99E-01	4.99E-01
+	@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09		99.86	1.00E+26		1.00E+26
+		AL-26	1808.65		99.76	6.01E-02	1.91E-01	1.91E-01
+		K-40	1460.81		10.67	9.96E-01	2.08E+00	2.08E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	1.17E-01	3.00E-01	3.32E-01
			78.34		96.00	3.39E-01		3.00E-01
+		SC-46	889.25		99.98	-1.79E+02	3.02E+02	3.10E+02
			1120.51		99.99	-1.51E+01		3.02E+02
+		V-48	983.52		99.98	-1.71E+13	4.07E+13	8.78E+13
			1312.10		97.50	4.71E+12		4.07E+13
+		CR-51	320.08		9.83	-1.33E+06	4.79E+08	4.79E+08
+		MN-54	834.83		99.97	1.58E-01	2.95E+00	2.95E+00
+		CO-56	846.75		99.96	-4.25E+00	3.10E+02	4.26E+02
			1037.75		14.03	-9.86E+02		3.41E+03
			1238.25		67.00	-4.96E+01		3.61E+02
			1771.40		15.51	2.68E+01		9.45E+02
			2598.48		16.90	-1.71E+01		3.10E+02
+		CO-57	122.06	*	85.51	6.72E+01	3.05E+00	3.05E+00
			136.48	*	10.60	6.84E+01		2.42E+01
+		CO-58	810.76		99.40	-4.29E+01	8.55E+02	8.55E+02
+		FE-59	1099.22		56.50	-2.37E+04	7.64E+04	1.35E+05
			1291.56		43.20	1.41E+04		7.64E+04
+		CO-60	1173.22	*	100.00	1.37E+02	6.96E-01	1.20E+00
			1332.49	*	100.00	1.38E+02		6.96E-01
+		ZN-65	1115.52		50.75	6.29E+00	1.08E+01	1.08E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	3.85E+03	3.61E+01	2.06E+02
			136.00		59.20	1.23E+02		3.61E+01
			264.65		59.80	2.39E+01		4.11E+01
			279.53		25.20	2.62E+01		9.87E+01
			400.65		11.40	1.46E+02		2.52E+02
+		RB-82	776.52		13.00	-9.47E+08	2.71E+09	2.71E+09
+		RB-83	520.41		46.00	6.39E+01	3.41E+02	3.41E+02
			529.64		30.30	1.86E+02		5.20E+02
			552.65		16.40	8.71E+01		9.08E+02
+		KR-85	513.99		0.43	1.17E+01	1.01E+02	1.01E+02
+		SR-85	513.99		99.27	1.35E+02	1.17E+03	1.17E+03
+		Y-88	898.02	*	93.40	2.81E+02	3.50E+01	1.31E+02
			1836.01	*	99.38	2.95E+02		3.50E+01
+		NB-93M	16.57		9.43	5.40E+04	3.56E+04	3.56E+04
+		NB-94	702.63		100.00	9.35E-02	4.58E-01	4.58E-01
			871.10		100.00	4.70E-01		6.21E-01

Analysis Report for 1506115-01

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		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		NB-95	765.79		99.81	-3.00E+05	1.40E+06	1.40E+06
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	2.03E+03	3.10E+03	3.71E+03
			756.72		55.30	1.33E+03		3.10E+03
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	2.00E+04	2.35E+05	2.35E+05
+		RU-106	621.84		9.80	8.73E-02	1.87E+01	1.87E+01
+		AG-108M	433.93		89.90	-1.22E-01	4.42E-01	4.42E-01
			614.37		90.40	-1.80E-01		5.07E-01
			722.95		90.50	1.34E-01		5.37E-01
+		CD-109	88.03	*	3.72	2.68E+03	3.94E+01	3.94E+01
+		AG-110M	657.75		93.14	3.75E+01	6.90E+00	1.17E+01
			677.61		10.53	-4.49E+00		3.44E+01
			706.67		16.46	-4.28E+00		2.26E+01
			763.93		21.98	-5.87E+00		1.84E+01
			884.67		71.63	-1.17E+00		7.04E+00
			1384.27		23.94	2.33E+00		6.90E+00
+		CD-113M	263.70		0.02	-2.82E+02	1.53E+03	1.53E+03
+		SN-113	255.12		1.93	2.48E+02	7.15E+01	1.50E+03
			391.69	*	64.90	1.61E+02		7.15E+01
+		TE123M	159.00		84.10	1.66E+01	2.38E+01	2.38E+01
+		SB-124	602.71		97.87	-6.01E+02	2.31E+03	2.53E+03
			645.85		7.26	-3.21E+03		3.58E+04
			722.78		11.10	6.07E+03		2.44E+04
			1691.02		49.00	-3.00E+02		2.31E+03
+		I-125	35.49		6.49	7.13E+04	9.90E+04	9.90E+04
+		SB-125	176.33		6.89	1.46E+00	2.24E+00	6.52E+00
			427.89		29.33	3.80E-01		2.24E+00
			463.38		10.35	-2.38E+00		6.77E+00
			600.56		17.80	1.24E-01		4.16E+00
			635.90		11.32	1.07E+00		6.84E+00
+		SB-126	414.70		83.30	2.83E+17	7.35E+17	7.35E+17
			666.33		99.60	-1.96E+17		1.11E+18
			695.00		99.60	4.00E+17		7.52E+17
			720.50		53.80	3.48E+16		1.43E+18
+		SN-126	87.57	*	37.00	8.79E+01	1.29E+00	1.29E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-4.83E+01	4.93E+00	4.93E+00
			33.60		13.20	-1.13E+01		1.24E+01
			39.58		7.52	-1.68E+01		9.77E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	@ TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@	228.16		88.00	1.00E+26		1.00E+26
+	BA-133	81.00		33.00	-1.22E+00	6.65E-01	9.48E-01
		302.84		17.80	-9.26E-01		2.07E+00
		356.01		60.00	9.02E-02		6.65E-01
+	@ I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+	CS-134	563.23		8.38	-3.31E+00	8.96E-01	8.56E+00
		569.32		15.43	-1.33E+00		4.68E+00
		604.70		97.60	-9.82E-01		8.96E-01
		795.84		85.40	7.59E-01		1.24E+00
		801.93		8.73	-3.86E-01		1.22E+01
+	CS-135	268.24		16.00	-5.07E-01	2.00E+00	2.00E+00
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	1.04E+17	7.92E+16	4.88E+17
		163.89		4.61	2.89E+18		9.68E+17
		176.55		13.56	1.82E+17		2.85E+17
		273.65		12.66	7.38E+16		3.66E+17
		340.57		48.50	-2.02E+16		1.01E+17
		818.50		99.70	-4.81E+16		7.92E+16
		1048.07		79.60	4.83E+16		1.18E+17
		1235.34		19.70	-5.07E+16		2.45E+17
+	CS-137	661.65	*	85.12	8.69E+01	1.01E+00	1.01E+00
+	LA-138	788.74		34.00	-4.13E-01	3.08E-01	1.54E+00
		1435.80		66.00	-5.87E-02		3.08E-01
+	CE-139	165.85	*	80.35	9.17E+01	2.21E+01	2.21E+01
+	BA-140	162.64		6.70	-2.13E+19	6.73E+17	1.82E+18
		304.84		4.50	3.02E+18		3.28E+18
		423.70		3.20	-1.14E+18		5.48E+18
		437.55		2.00	-1.18E+17		9.06E+18
		537.32		25.00	1.03E+17		6.73E+17
+	LA-140	328.77		20.50	3.82E+15	1.07E+17	7.39E+17
		487.03		45.50	-8.64E+15		3.77E+17
		815.85		23.50	-6.00E+17		1.05E+18
		1596.49		95.49	-2.74E+15		1.07E+17
+	CE-141	145.44		48.40	-1.98E+05	4.52E+06	4.52E+06
+	@ CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
	@	293.26		42.00	1.00E+26		1.00E+26
	@	664.55		5.20	1.00E+26		1.00E+26
+	CE-144	133.54		10.80	-7.65E+01	1.48E+01	1.48E+01
+	PM-144	476.78		42.00	8.17E-01	1.90E+00	4.09E+00
		618.01		98.60	-1.25E-01		1.90E+00
		696.49		99.49	5.42E-01		1.94E+00
+	PM-145	36.85		21.70	9.87E+00	2.55E+00	4.97E+00
		37.36		39.70	5.07E+00		2.55E+00
		42.30		15.10	-7.62E+00		4.60E+00
		72.40		2.31	5.77E+00		1.37E+01
+	PM-146	453.90		39.94	9.76E-02	1.34E+00	1.34E+00

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		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		PM-146	735.90		14.01	7.38E-01	1.34E+00	4.40E+00
			747.13		13.10	-8.08E-01		4.86E+00
+	@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26
	@		531.02		13.10	1.00E+26		1.00E+26
+	@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78		20.50	4.50E+01	1.62E+00	2.42E+00
			244.69		5.40	-6.29E+00		6.56E+00
			344.27		19.13	6.17E-01		1.99E+00
			778.89		9.20	-6.67E-01		6.25E+00
			964.01		10.40	-4.52E-01		7.50E+00
			1085.78		7.22	1.99E+00		1.02E+01
			1112.02		9.60	1.87E+00		7.73E+00
			1407.95		14.94	2.41E-01		1.62E+00
+		GD-153	97.43		31.30	1.07E+00	6.59E+00	6.59E+00
			103.18		22.20	3.99E+00		9.56E+00
+		EU-154	123.07		40.50	2.36E+01	9.56E-01	1.29E+00
			723.30		19.70	7.14E-01		2.87E+00
			873.19		11.50	-1.51E+00		6.33E+00
			996.32		10.30	-3.64E+00		7.33E+00
			1004.76		17.90	8.27E-01		4.29E+00
			1274.45		35.50	1.01E-01		9.56E-01
+		EU-155	86.50		30.90	1.38E+02	1.59E+00	3.37E+00
			105.30		20.70	1.24E-01		1.59E+00
+		EU-156	811.77		10.40	1.19E+15	2.80E+15	3.88E+15
			1153.47		7.20	1.10E+15		5.36E+15
			1230.71		8.90	9.91E+13		2.80E+15
+		HO-166M	184.41		72.60	1.17E-01	3.92E-01	3.92E-01
			280.45		29.60	2.91E-01		1.10E+00
			410.94		11.10	-1.61E+00		3.34E+00
			711.69		54.10	4.24E-01		8.68E-01
+		TM-171	66.72	*	0.14	5.41E+02	7.08E+02	7.08E+02
+		HF-172	81.75		4.52	-4.96E+00	4.57E+00	1.32E+01
			125.81		11.30	-2.14E-02		4.57E+00
+	@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06		16.63	1.00E+26		1.00E+26
	@		912.12		15.25	1.00E+26		1.00E+26
	@		1093.66		62.50	1.00E+26		1.00E+26
+		LU-173	100.72		5.24	2.78E+00	4.32E+00	1.33E+01
			272.11		21.20	4.63E-01		4.32E+00
+		HF-175	343.40		84.00	6.25E+02	6.91E+02	6.91E+02
+		LU-176	88.34		13.30	2.41E+02	3.45E-01	5.79E+00
			201.83		86.00	-2.11E-01		3.45E-01
			306.78		94.00	-5.34E-02		3.47E-01
+		TA-182	67.75		41.20	2.47E+01	6.99E+01	6.99E+01
			1121.30		34.90	-4.19E+01		1.62E+02
			1189.05		16.23	1.93E+00		2.65E+02
			1221.41		26.98	3.43E+01		1.25E+02
			1231.02		11.44	8.22E+01		2.83E+02
+		IR-192	308.46		29.68	-2.63E+02	9.86E+02	1.24E+03

Analysis Report for 1506115-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	-2.73E+02	9.86E+02	9.86E+02
+	HG-203	279.19		77.30	1.70E+03	2.92E+04	2.92E+04
+	BI-207	569.67		97.72	-1.10E-01	3.87E-01	3.87E-01
		1063.62		74.90	-3.81E-01		8.96E-01
+	TL-208	583.14	*	30.22	9.18E-01	1.89E-01	1.45E+00
		860.37		4.48	2.21E-01		1.34E+01
		2614.66	*	35.85	3.44E-01		1.89E-01
+	BI-210M	262.00		45.00	-4.04E-02	7.04E-01	7.04E-01
		300.00		23.00	-8.02E-02		1.40E+00
+	PB-210	46.50		4.25	-8.48E+01	1.61E+01	1.61E+01
+	PB-211	404.84		2.90	6.85E-01	1.29E+01	1.29E+01
		831.96		2.90	-7.81E+00		1.92E+01
+	BI-212	727.17		11.80	3.12E-01	4.09E+00	4.09E+00
		1620.62		2.75	-1.61E+00		8.14E+00
+	PB-212	238.63		44.60	-1.64E-01	7.50E-01	7.50E-01
		300.09		3.41	-5.41E-01		9.43E+00
+	BI-214	609.31		46.30	5.66E-02	9.87E-01	9.87E-01
		1120.29		15.10	-2.03E-01		4.06E+00
		1764.49		15.80	6.95E-02		1.24E+00
		2204.22		4.98	1.60E+00		3.61E+00
+	PB-214	295.21		19.19	5.19E-01	9.51E-01	1.71E+00
		351.92		37.19	2.84E-01		9.51E-01
+	RN-219	401.80		6.50	1.51E+00	5.77E+00	5.77E+00
+	RA-223	323.87		3.88	-2.70E+00	8.64E+00	8.64E+00
+	RA-224	240.98		3.95	1.05E+01	8.51E+00	8.51E+00
+	RA-225	40.00		31.00	-7.03E+15	4.10E+15	4.10E+15
+	RA-226	186.21		3.28	1.56E+00	8.90E+00	8.90E+00
+	TH-227	50.10		8.40	2.12E+01	2.89E+00	8.31E+00
		236.00		11.50	-2.13E+00		2.89E+00
		256.20		6.30	-3.89E-01		5.02E+00
+	AC-228	338.32		11.40	1.02E+00	2.45E+00	2.99E+00
		911.07		27.70	1.03E+00		2.45E+00
		969.11		16.60	-5.37E-01		4.07E+00
+	TH-230	48.44		16.90	6.57E+00	4.24E+00	4.24E+00
		62.85		4.60	-6.47E+00		6.03E+00
		67.67		0.37	2.93E+01		8.29E+01
+	PA-231	283.67		1.60	1.36E+00	1.40E+01	2.00E+01
		302.67		2.30	-6.25E+00		1.40E+01
+	TH-231	25.64		14.70	9.14E+03	4.50E+00	2.37E+02
		84.21		6.40	2.62E+00		4.50E+00
+	PA-233	311.98		38.60	1.71E+07	1.97E+08	1.97E+08
+	PA-234	131.20		20.40	3.95E-01	1.20E+00	1.20E+00
		733.99		8.80	2.41E+00		5.46E+00
		946.00		12.00	7.84E-01		6.10E+00
+	PA-234M	1001.03		0.92	-1.32E+01	7.08E+01	7.08E+01
+	TH-234	63.29		3.80	-7.77E+00	7.24E+00	7.24E+00
+	U-235	143.76		10.50	-2.38E-01	2.34E+00	2.34E+00

Analysis Report for 1506115-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35		4.70	-6.75E+01	2.34E+00	5.77E+00
		205.31		4.70	2.66E-01		6.46E+00
+	NP-237	86.50		12.60	2.55E+02	6.19E+00	6.19E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	2.42E+02	3.19E+00	3.19E+00
+	AM-243	74.67		66.00	-2.89E-01	4.29E-01	4.29E-01
+	CM-243	209.75		3.29	3.27E-01	2.41E+00	9.88E+00
		228.14		10.60	1.65E+00		3.29E+00
		277.60		14.00	-3.16E-01		2.41E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59	10.42	6.62E+04	6.62E+04	1.32E+04	3.27E+04
	NA-22	1274.54	99.94	4.99E-01	4.99E-01	5.27E-02	2.40E-01
@	NA-24	1368.53	99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09	99.86	1.00E+26		1.00E+26	1.00E+20
	AL-26	1808.65	99.76	1.91E-01	1.91E-01	6.01E-02	8.90E-02
	K-40	1460.81	10.67	2.08E+00	2.08E+00	9.96E-01	9.85E-01
@	AR-41	1293.64	99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88	94.40	3.32E-01	3.00E-01	1.17E-01	1.65E-01
		78.34	96.00	3.00E-01		3.39E-01	1.49E-01
	SC-46	889.25	99.98	3.10E+02	3.02E+02	-1.79E+02	1.53E+02
		1120.51	99.99	3.02E+02		-1.51E+01	1.49E+02

Analysis Report for 1506115-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	V-48	983.52		99.98	8.78E+13	4.07E+13	-1.71E+13	4.33E+13
		1312.10		97.50	4.07E+13		4.71E+12	1.96E+13
	CR-51	320.08		9.83	4.79E+08	4.79E+08	-1.33E+06	2.37E+08
	MN-54	834.83		99.97	2.95E+00	2.95E+00	1.58E-01	1.46E+00
	CO-56	846.75		99.96	4.26E+02	3.10E+02	-4.25E+00	2.10E+02
		1037.75		14.03	3.41E+03		-9.86E+02	1.68E+03
		1238.25		67.00	3.61E+02		-4.96E+01	1.75E+02
		1771.40		15.51	9.45E+02		2.68E+01	4.41E+02
		2598.48		16.90	3.10E+02		-1.71E+01	1.25E+02
+	CO-57	122.06	*	85.51	3.05E+00	3.05E+00	6.72E+01	1.52E+00
		136.48	*	10.60	2.42E+01		6.84E+01	1.20E+01
	CO-58	810.76		99.40	8.55E+02	8.55E+02	-4.29E+01	4.22E+02
	FE-59	1099.22		56.50	1.35E+05	7.64E+04	-2.37E+04	6.63E+04
		1291.56		43.20	7.64E+04		1.41E+04	3.67E+04
+	CO-60	1173.22	*	100.00	1.20E+00	6.96E-01	1.37E+02	5.92E-01
		1332.49	*	100.00	6.96E-01		1.38E+02	3.41E-01
	ZN-65	1115.52		50.75	1.08E+01	1.08E+01	6.29E+00	5.31E+00
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	2.06E+02	3.61E+01	3.85E+03	1.03E+02
		136.00		59.20	3.61E+01		1.23E+02	1.79E+01
		264.65		59.80	4.11E+01		2.39E+01	2.03E+01
		279.53		25.20	9.87E+01		2.62E+01	4.88E+01
		400.65		11.40	2.52E+02		1.46E+02	1.25E+02
	RB-82	776.52		13.00	2.71E+09	2.71E+09	-9.47E+08	1.33E+09
	RB-83	520.41		46.00	3.41E+02	3.41E+02	6.39E+01	1.68E+02
		529.64		30.30	5.20E+02		1.86E+02	2.56E+02
		552.65		16.40	9.08E+02		8.71E+01	4.47E+02
	KR-85	513.99		0.43	1.01E+02	1.01E+02	1.17E+01	4.98E+01
	SR-85	513.99		99.27	1.17E+03	1.17E+03	1.35E+02	5.79E+02
+	Y-88	898.02	*	93.40	1.31E+02	3.50E+01	2.81E+02	6.51E+01
		1836.01	*	99.38	3.50E+01		2.95E+02	1.66E+01
	NB-93M	16.57		9.43	3.56E+04	3.56E+04	5.40E+04	1.77E+04
	NB-94	702.63		100.00	4.58E-01	4.58E-01	9.35E-02	2.26E-01
		871.10		100.00	6.21E-01		4.70E-01	3.06E-01
	NB-95	765.79		99.81	1.40E+06	1.40E+06	-3.00E+05	6.92E+05
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	3.71E+03	3.10E+03	2.03E+03	1.83E+03
		756.72		55.30	3.10E+03		1.33E+03	1.53E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	2.35E+05	2.35E+05	2.00E+04	1.16E+05
	RU-106	621.84		9.80	1.87E+01	1.87E+01	8.73E-02	9.23E+00
	AG-108M	433.93		89.90	4.42E-01	4.42E-01	-1.22E-01	2.18E-01
		614.37		90.40	5.07E-01		-1.80E-01	2.50E-01
		722.95		90.50	5.37E-01		1.34E-01	2.65E-01
+	CD-109	88.03	*	3.72	3.94E+01	3.94E+01	2.68E+03	1.96E+01
	AG-110M	657.75		93.14	1.17E+01	6.90E+00	3.75E+01	5.82E+00
		677.61		10.53	3.44E+01		-4.49E+00	1.69E+01
		706.67		16.46	2.26E+01		-4.28E+00	1.11E+01
		763.93		21.98	1.84E+01		-5.87E+00	9.05E+00

Analysis Report for 1506115-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	884.67		71.63	7.04E+00	6.90E+00	-1.17E+00	3.48E+00
		1384.27		23.94	6.90E+00		2.33E+00	3.26E+00
	CD-113M	263.70		0.02	1.53E+03	1.53E+03	-2.82E+02	7.57E+02
+	SN-113	255.12		1.93	1.50E+03	7.15E+01	2.48E+02	7.43E+02
		391.69	*	64.90	7.15E+01		1.61E+02	3.55E+01
	TE123M	159.00		84.10	2.38E+01	2.38E+01	1.66E+01	1.18E+01
	SB-124	602.71		97.87	2.53E+03	2.31E+03	-6.01E+02	1.25E+03
		645.85		7.26	3.58E+04		-3.21E+03	1.76E+04
		722.78		11.10	2.44E+04		6.07E+03	1.20E+04
		1691.02		49.00	2.31E+03		-3.00E+02	1.08E+03
	I-125	35.49		6.49	9.90E+04	9.90E+04	7.13E+04	4.90E+04
	SB-125	176.33		6.89	6.52E+00	2.24E+00	1.46E+00	3.23E+00
		427.89		29.33	2.24E+00		3.80E-01	1.11E+00
		463.38		10.35	6.77E+00		-2.38E+00	3.35E+00
		600.56		17.80	4.16E+00		1.24E-01	2.05E+00
		635.90		11.32	6.84E+00		1.07E+00	3.38E+00
	SB-126	414.70		83.30	7.35E+17	7.35E+17	2.83E+17	3.63E+17
		666.33		99.60	1.11E+18		-1.96E+17	5.51E+17
		695.00		99.60	7.52E+17		4.00E+17	3.70E+17
		720.50		53.80	1.43E+18		3.48E+16	7.05E+17
+	SN-126	87.57	*	37.00	1.29E+00	1.29E+00	8.79E+01	6.43E-01
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	4.93E+00	4.93E+00	-4.83E+01	2.44E+00
		33.60		13.20	1.24E+01		-1.13E+01	6.13E+00
		39.58		7.52	9.77E+00		-1.68E+01	4.84E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	9.48E-01	6.65E-01	-1.22E+00	4.71E-01
		302.84		17.80	2.07E+00		-9.26E-01	1.03E+00
		356.01		60.00	6.65E-01		9.02E-02	3.29E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	8.56E+00	8.96E-01	-3.31E+00	4.22E+00
		569.32		15.43	4.68E+00		-1.33E+00	2.31E+00
		604.70		97.60	8.96E-01		-9.82E-01	4.42E-01
		795.84		85.40	1.24E+00		7.59E-01	6.13E-01
		801.93		8.73	1.22E+01		-3.86E-01	5.99E+00
	CS-135	268.24		16.00	2.00E+00	2.00E+00	-5.07E-01	9.88E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	4.88E+17	7.92E+16	1.04E+17	2.42E+17
		163.89		4.61	9.68E+17		2.89E+18	4.80E+17
		176.55		13.56	2.85E+17		1.82E+17	1.41E+17
		273.65		12.66	3.66E+17		7.38E+16	1.81E+17
		340.57		48.50	1.01E+17		-2.02E+16	5.01E+16
		818.50		99.70	7.92E+16		-4.81E+16	3.91E+16
		1048.07		79.60	1.18E+17		4.83E+16	5.83E+16

Analysis Report for 1506115-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	1235.34		19.70	2.45E+17	7.92E+16	-5.07E+16	1.19E+17
+	CS-137	661.65	*	85.12	1.01E+00	1.01E+00	8.69E+01	5.03E-01
	LA-138	788.74		34.00	1.54E+00	3.08E-01	-4.13E-01	7.59E-01
		1435.80		66.00	3.08E-01		-5.87E-02	1.45E-01
+	CE-139	165.85	*	80.35	2.21E+01	2.21E+01	9.17E+01	1.10E+01
	BA-140	162.64		6.70	1.82E+18	6.73E+17	-2.13E+19	9.04E+17
		304.84		4.50	3.28E+18		3.02E+18	1.62E+18
		423.70		3.20	5.48E+18		-1.14E+18	2.71E+18
		437.55		2.00	9.06E+18		-1.18E+17	4.48E+18
		537.32		25.00	6.73E+17		1.03E+17	3.31E+17
	LA-140	328.77		20.50	7.39E+17	1.07E+17	3.82E+15	3.65E+17
		487.03		45.50	3.77E+17		-8.64E+15	1.86E+17
		815.85		23.50	1.05E+18		-6.00E+17	5.16E+17
		1596.49		95.49	1.07E+17		-2.74E+15	5.07E+16
	CE-141	145.44		48.40	4.52E+06	4.52E+06	-1.98E+05	2.24E+06
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	1.48E+01	1.48E+01	-7.65E+01	7.35E+00
	PM-144	476.78		42.00	4.09E+00	1.90E+00	8.17E-01	2.02E+00
		618.01		98.60	1.90E+00		-1.25E-01	9.36E-01
		696.49		99.49	1.94E+00		5.42E-01	9.56E-01
	PM-145	36.85		21.70	4.97E+00	2.55E+00	9.87E+00	2.46E+00
		37.36		39.70	2.55E+00		5.07E+00	1.26E+00
		42.30		15.10	4.60E+00		-7.62E+00	2.28E+00
		72.40		2.31	1.37E+01		5.77E+00	6.80E+00
	PM-146	453.90		39.94	1.34E+00	1.34E+00	9.76E-02	6.62E-01
		735.90		14.01	4.40E+00		7.38E-01	2.17E+00
		747.13		13.10	4.86E+00		-8.08E-01	2.39E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	2.42E+00	1.62E+00	4.50E+01	1.20E+00
		244.69		5.40	6.56E+00		-6.29E+00	3.25E+00
		344.27		19.13	1.99E+00		6.17E-01	9.84E-01
		778.89		9.20	6.25E+00		-6.67E-01	3.08E+00
		964.01		10.40	7.50E+00		-4.52E-01	3.71E+00
		1085.78		7.22	1.02E+01		1.99E+00	5.00E+00
		1112.02		9.60	7.73E+00		1.87E+00	3.81E+00
		1407.95		14.94	1.62E+00		2.41E-01	7.68E-01
	GD-153	97.43		31.30	6.59E+00	6.59E+00	1.07E+00	3.27E+00
		103.18		22.20	9.56E+00		3.99E+00	4.74E+00
	EU-154	123.07		40.50	1.29E+00	9.56E-01	2.36E+01	6.43E-01
		723.30		19.70	2.87E+00		7.14E-01	1.41E+00
		873.19		11.50	6.33E+00		-1.51E+00	3.12E+00
		996.32		10.30	7.33E+00		-3.64E+00	3.61E+00
		1004.76		17.90	4.29E+00		8.27E-01	2.12E+00
		1274.45		35.50	9.56E-01		1.01E-01	4.60E-01
	EU-155	86.50		30.90	3.37E+00	1.59E+00	1.38E+02	1.68E+00
		105.30		20.70	1.59E+00		1.24E-01	7.88E-01
	EU-156	811.77		10.40	3.88E+15	2.80E+15	1.19E+15	1.91E+15
		1153.47		7.20	5.36E+15		1.10E+15	2.63E+15
		1230.71		8.90	2.80E+15		9.91E+13	1.36E+15

Analysis Report for 1506115-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	184.41		72.60	3.92E-01	3.92E-01	1.17E-01	1.94E-01
		280.45		29.60	1.10E+00		2.91E-01	5.44E-01
		410.94		11.10	3.34E+00		-1.61E+00	1.65E+00
		711.69		54.10	8.68E-01		4.24E-01	4.28E-01
+	TM-171	66.72	*	0.14	7.08E+02	7.08E+02	5.41E+02	3.52E+02
	HF-172	81.75		4.52	1.32E+01	4.57E+00	-4.96E+00	6.56E+00
		125.81		11.30	4.57E+00		-2.14E-02	2.26E+00
@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		810.06		16.63	1.00E+26		1.00E+26	1.00E+20
@		912.12		15.25	1.00E+26		1.00E+26	1.00E+20
@		1093.66		62.50	1.00E+26		1.00E+26	1.00E+20
	LU-173	100.72		5.24	1.33E+01	4.32E+00	2.78E+00	6.59E+00
		272.11		21.20	4.32E+00		4.63E-01	2.14E+00
	HF-175	343.40		84.00	6.91E+02	6.91E+02	6.25E+02	3.42E+02
	LU-176	88.34		13.30	5.79E+00	3.45E-01	2.41E+02	2.89E+00
		201.83		86.00	3.45E-01		-2.11E-01	1.71E-01
		306.78		94.00	3.47E-01		-5.34E-02	1.72E-01
	TA-182	67.75		41.20	6.99E+01	6.99E+01	2.47E+01	3.47E+01
		1121.30		34.90	1.62E+02		-4.19E+01	7.97E+01
		1189.05		16.23	2.65E+02		1.93E+00	1.30E+02
		1221.41		26.98	1.25E+02		3.43E+01	6.08E+01
		1231.02		11.44	2.83E+02		8.22E+01	1.37E+02
	IR-192	308.46		29.68	1.24E+03	9.86E+02	-2.63E+02	6.14E+02
		468.07		48.10	9.86E+02		-2.73E+02	4.87E+02
	HG-203	279.19		77.30	2.92E+04	2.92E+04	1.70E+03	1.45E+04
	BI-207	569.67		97.72	3.87E-01	3.87E-01	-1.10E-01	1.91E-01
		1063.62		74.90	8.96E-01		-3.81E-01	4.41E-01
+	TL-208	583.14	*	30.22	1.45E+00	1.89E-01	9.18E-01	7.14E-01
		860.37		4.48	1.34E+01		2.21E-01	6.60E+00
		2614.66	*	35.85	1.89E-01		3.44E-01	7.57E-02
	BI-210M	262.00		45.00	7.04E-01	7.04E-01	-4.04E-02	3.48E-01
		300.00		23.00	1.40E+00		-8.02E-02	6.91E-01
	PB-210	46.50		4.25	1.61E+01	1.61E+01	-8.48E+01	7.98E+00
	PB-211	404.84		2.90	1.29E+01	1.29E+01	6.85E-01	6.39E+00
		831.96		2.90	1.92E+01		-7.81E+00	9.45E+00
	BI-212	727.17		11.80	4.09E+00	4.09E+00	3.12E-01	2.01E+00
		1620.62		2.75	8.14E+00		-1.61E+00	3.84E+00
	PB-212	238.63		44.60	7.50E-01	7.50E-01	-1.64E-01	3.71E-01
		300.09		3.41	9.43E+00		-5.41E-01	4.66E+00
	BI-214	609.31		46.30	9.87E-01	9.87E-01	5.66E-02	4.87E-01
		1120.29		15.10	4.06E+00		-2.03E-01	2.00E+00
		1764.49		15.80	1.24E+00		6.95E-02	5.79E-01
		2204.22		4.98	3.61E+00		1.60E+00	1.66E+00
	PB-214	295.21		19.19	1.71E+00	9.51E-01	5.19E-01	8.43E-01
		351.92		37.19	9.51E-01		2.84E-01	4.70E-01
	RN-219	401.80		6.50	5.77E+00	5.77E+00	1.51E+00	2.85E+00
	RA-223	323.87		3.88	8.64E+00	8.64E+00	-2.70E+00	4.27E+00
	RA-224	240.98		3.95	8.51E+00	8.51E+00	1.05E+01	4.22E+00
	RA-225	40.00		31.00	4.10E+15	4.10E+15	-7.03E+15	2.03E+15
	RA-226	186.21		3.28	8.90E+00	8.90E+00	1.56E+00	4.41E+00
	TH-227	50.10		8.40	8.31E+00	2.89E+00	2.12E+01	4.14E+00
		236.00		11.50	2.89E+00		-2.13E+00	1.43E+00
		256.20		6.30	5.02E+00		-3.89E-01	2.48E+00

Analysis Report for 1506115-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	338.32		11.40	2.99E+00	2.45E+00	1.02E+00	1.48E+00
		911.07		27.70	2.45E+00		1.03E+00	1.21E+00
		969.11		16.60	4.07E+00		-5.37E-01	2.01E+00
	TH-230	48.44		16.90	4.24E+00	4.24E+00	6.57E+00	2.11E+00
		62.85		4.60	6.03E+00		-6.47E+00	2.99E+00
		67.67		0.37	8.29E+01		2.93E+01	4.12E+01
	PA-231	283.67		1.60	2.00E+01	1.40E+01	1.36E+00	9.91E+00
		302.67		2.30	1.40E+01		-6.25E+00	6.93E+00
	TH-231	25.64		14.70	2.37E+02	4.50E+00	9.14E+03	1.18E+02
		84.21		6.40	4.50E+00		2.62E+00	2.24E+00
	PA-233	311.98		38.60	1.97E+08	1.97E+08	1.71E+07	9.73E+07
	PA-234	131.20		20.40	1.20E+00	1.20E+00	3.95E-01	5.95E-01
		733.99		8.80	5.46E+00		2.41E+00	2.69E+00
		946.00		12.00	6.10E+00		7.84E-01	3.02E+00
	PA-234M	1001.03		0.92	7.08E+01	7.08E+01	-1.32E+01	3.49E+01
	TH-234	63.29		3.80	7.24E+00	7.24E+00	-7.77E+00	3.59E+00
	U-235	143.76		10.50	2.34E+00	2.34E+00	-2.38E-01	1.16E+00
		163.35		4.70	5.77E+00		-6.75E+01	2.86E+00
		205.31		4.70	6.46E+00		2.66E-01	3.20E+00
	NP-237	86.50		12.60	6.19E+00	6.19E+00	2.55E+02	3.09E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.19E+00	3.19E+00	2.42E+02	1.59E+00
	AM-243	74.67		66.00	4.29E-01	4.29E-01	-2.89E-01	2.13E-01
	CM-243	209.75		3.29	9.88E+00	2.41E+00	3.27E-01	4.89E+00
		228.14		10.60	3.29E+00		1.65E+00	1.63E+00
		277.60		14.00	2.41E+00		-3.16E-01	1.19E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506115-01
GAS-1302

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1822

Channel								
1:	0	0	0	0	0	0	17	1074
9:	1338	1686	2619	6224	7218	2951	2803	2238
17:	1781	2649	1605	2368	9278	80326	41153	5486
25:	27519	11260	1671	840	795	883	935	2099
33:	1804	1203	854	1133	1277	1200	1100	1172
41:	1339	1456	1685	1944	2041	2223	2544	3266
49:	4247	4969	4712	4652	4645	4759	4942	5015
57:	5447	5706	24744	60572	6121	1487	1535	1637
65:	1852	2044	2189	2245	2179	2217	2252	2216
73:	2136	2045	2315	2076	2277	2250	2129	2074
81:	2131	2196	2379	2394	2492	2420	4213	31142
89:	13924	1203	1009	1018	1098	993	938	964
97:	1019	1002	1039	1046	1048	1085	1069	1071
105:	987	1009	1084	1008	985	1026	1009	1026
113:	1005	1066	1018	1057	1026	1024	1098	1095
121:	1566	8053	4030	901	851	912	842	884
129:	894	849	900	875	836	867	840	1316
137:	1575	845	866	793	818	794	763	827
145:	818	783	793	803	789	831	781	782
153:	786	833	776	744	796	820	758	811
161:	799	763	794	733	1108	2105	991	788
169:	807	740	726	726	743	712	741	743
177:	781	764	730	717	730	759	756	790
185:	829	828	806	865	852	835	895	838
193:	818	799	765	897	757	818	797	765
201:	762	763	775	772	807	807	765	796
209:	779	810	790	780	805	842	876	856
217:	811	876	836	844	882	854	877	850
225:	798	822	812	814	829	791	774	816
233:	783	780	782	821	759	768	853	736
241:	775	771	747	663	679	718	613	715
249:	676	681	675	657	628	664	626	643
257:	614	606	639	609	625	596	638	601
265:	602	628	621	582	587	608	629	615
273:	581	623	618	573	567	625	581	576
281:	573	587	580	552	577	525	553	576
289:	529	563	545	569	560	574	575	534
297:	535	522	521	554	525	503	523	522
305:	533	535	545	476	537	545	586	503
313:	479	507	509	471	539	531	540	502
321:	518	494	503	543	513	516	536	509
329:	469	501	521	501	467	478	469	510
337:	497	508	504	482	494	542	483	512
345:	490	448	472	530	497	504	540	530
353:	501	475	495	500	461	510	469	484
361:	480	478	471	441	489	486	465	440

369:	452	437	482	470	444	470	453	502

Sample Title: GAS-1302

Channel								
377:	517	497	440	452	478	479	458	456
385:	499	490	504	446	481	478	694	956
393:	518	453	491	438	487	433	469	500
401:	481	463	479	464	463	473	487	476
409:	460	457	479	404	462	449	489	485
417:	446	446	461	504	472	480	452	463
425:	507	474	460	505	482	488	482	451
433:	493	451	478	486	475	493	498	503
441:	490	479	483	499	498	489	489	448
449:	531	466	477	505	479	487	478	505
457:	482	514	502	490	476	471	482	520
465:	498	509	516	484	466	472	518	478
473:	507	450	467	476	435	454	414	411
481:	421	384	356	385	383	380	375	365
489:	372	361	398	385	369	355	380	391
497:	372	358	340	364	369	371	363	338
505:	349	369	346	347	387	391	389	384
513:	353	337	336	350	320	311	354	342
521:	341	315	329	309	314	342	327	303
529:	339	326	339	289	317	304	337	297
537:	311	305	299	290	310	304	309	303
545:	299	278	269	291	288	288	275	281
553:	257	269	270	247	295	273	261	310
561:	278	242	269	290	268	285	277	265
569:	266	277	259	276	284	271	261	284
577:	265	286	281	274	244	281	304	302
585:	281	234	260	278	288	255	285	264
593:	265	265	260	279	274	279	275	270
601:	264	254	246	261	263	263	248	271
609:	314	299	301	243	288	283	263	257
617:	248	254	266	261	265	229	256	246
625:	275	248	274	281	274	264	269	247
633:	267	272	272	256	275	248	278	271
641:	260	258	241	280	243	255	275	267
649:	246	265	259	253	250	301	248	270
657:	314	310	274	1691	12459	14168	2434	304
665:	254	212	223	197	214	223	249	210
673:	237	240	202	236	205	247	251	228
681:	246	236	219	240	242	235	228	201
689:	220	232	235	226	215	238	227	247
697:	232	238	205	205	224	215	244	252
705:	215	212	195	232	236	234	247	208
713:	234	213	217	233	258	237	211	226
721:	206	253	229	225	245	259	235	227
729:	219	231	221	231	220	237	216	226
737:	252	227	195	216	216	228	238	240
745:	228	249	264	228	220	205	235	248
753:	249	266	238	240	238	244	249	240
761:	218	246	228	257	220	243	244	259
769:	233	266	249	227	244	252	218	259
777:	218	226	248	262	247	236	275	231
785:	240	215	250	256	248	254	234	237
793:	258	246	262	244	236	251	235	216

801:	237	259	247	246	270	232	261	261

Sample Title: GAS-1302

Channel								
809:	239	250	274	265	245	271	255	247
817:	257	251	229	261	269	257	301	248
825:	270	275	262	278	258	262	235	254
833:	256	245	247	257	257	260	237	273
841:	270	245	251	268	300	277	246	262
849:	247	270	270	261	270	251	275	280
857:	260	275	276	283	276	289	281	277
865:	275	246	261	273	304	291	291	294
873:	271	315	267	292	304	299	294	301
881:	286	276	304	315	302	290	274	298
889:	297	291	286	283	309	299	324	345
897:	472	651	410	308	303	290	317	347
905:	306	310	307	275	333	336	355	347
913:	310	314	301	324	332	288	351	321
921:	254	337	335	313	330	346	324	327
929:	336	352	369	302	359	352	360	328
937:	349	328	330	349	349	339	318	349
945:	340	375	369	364	374	347	367	373
953:	341	373	379	356	357	362	352	356
961:	368	314	310	320	312	305	291	303
969:	286	267	305	273	254	302	275	269
977:	282	266	269	262	251	271	260	238
985:	244	243	241	262	254	270	234	275
993:	246	253	265	245	266	232	243	276
1001:	266	261	277	232	233	296	223	256
1009:	230	264	252	262	266	232	246	257
1017:	268	246	247	253	249	250	229	232
1025:	279	247	233	228	253	234	250	248
1033:	248	248	241	242	237	243	241	222
1041:	246	247	228	249	270	220	250	211
1049:	239	247	241	239	203	244	231	234
1057:	239	237	231	199	218	236	241	232
1065:	220	230	240	237	233	230	224	228
1073:	203	208	237	225	220	237	222	215
1081:	248	248	242	235	204	212	220	247
1089:	200	222	259	235	237	199	250	212
1097:	196	238	240	238	235	234	245	232
1105:	207	254	240	256	260	237	213	204
1113:	229	237	206	225	193	203	183	198
1121:	180	182	171	144	194	148	181	173
1129:	174	156	162	129	136	150	168	158
1137:	151	141	154	128	145	108	149	141
1145:	145	133	130	142	113	130	131	127
1153:	131	113	153	139	136	120	124	120
1161:	117	134	136	128	140	128	134	123
1169:	133	161	932	6259	13238	7120	1104	163
1177:	99	92	102	101	106	84	78	103
1185:	96	101	100	79	91	110	89	89
1193:	93	87	96	70	71	74	77	78
1201:	71	85	74	83	63	66	72	57
1209:	56	58	55	48	41	60	54	62
1217:	60	64	75	48	57	50	43	47
1225:	47	43	49	45	52	48	43	55

1233:	48	55	46	45	42	37	49	55

Sample Title: GAS-1302

Channel								
1241:	39	45	40	31	37	39	33	28
1249:	42	47	41	31	29	22	34	39
1257:	29	27	37	37	34	30	33	45
1265:	34	38	41	39	24	27	39	37
1273:	30	30	31	34	27	38	33	39
1281:	31	27	33	26	35	32	35	34
1289:	26	25	35	41	37	24	22	32
1297:	34	30	32	25	49	27	26	26
1305:	25	30	31	30	30	21	29	30
1313:	41	29	38	32	27	29	32	37
1321:	38	35	45	46	44	43	47	46
1329:	79	573	4350	10794	8130	1960	180	12
1337:	26	13	9	11	20	17	20	16
1345:	23	12	23	17	13	21	21	12
1353:	14	11	8	18	13	9	15	16
1361:	4	17	13	9	16	18	7	13
1369:	20	19	11	9	11	14	5	19
1377:	13	9	14	9	15	13	8	19
1385:	10	20	14	6	18	14	15	10
1393:	17	13	15	11	9	14	12	17
1401:	10	21	13	14	18	12	14	17
1409:	20	14	15	10	16	8	8	12
1417:	14	13	13	9	16	13	16	15
1425:	8	18	19	12	17	15	13	12
1433:	12	12	15	14	15	11	15	14
1441:	6	9	10	12	13	13	15	11
1449:	10	11	10	8	7	16	12	10
1457:	10	17	13	14	23	12	18	15
1465:	10	7	13	12	17	16	13	13
1473:	6	9	11	13	11	10	18	11
1481:	17	14	14	9	10	13	13	11
1489:	13	10	17	8	11	14	18	9
1497:	13	9	17	8	9	13	10	12
1505:	10	12	8	11	12	13	13	11
1513:	7	8	12	6	8	8	4	10
1521:	12	15	11	15	8	16	12	13
1529:	13	15	14	8	10	13	12	12
1537:	5	13	13	9	17	14	7	12
1545:	18	16	13	9	13	9	15	12
1553:	8	8	7	7	18	12	12	8
1561:	14	12	11	14	17	12	10	12
1569:	10	10	12	19	15	8	16	13
1577:	14	12	14	12	12	8	11	10
1585:	11	4	4	14	9	12	15	11
1593:	9	12	12	11	16	9	13	7
1601:	8	11	12	8	7	13	8	9
1609:	12	14	11	10	6	14	16	11
1617:	3	11	11	12	14	10	11	12
1625:	10	7	9	9	4	12	7	10
1633:	8	14	7	6	8	10	4	7
1641:	11	11	4	7	11	11	10	9
1649:	6	15	8	10	20	14	8	10
1657:	10	7	12	14	9	12	6	11

1665:	9	7	9	12	9	9	9	10

Sample Title: GAS-1302

Channel								
1673:	9	10	3	4	11	10	6	10
1681:	8	9	7	13	7	7	8	12
1689:	10	6	1	9	10	9	7	8
1697:	13	6	12	9	10	7	9	9
1705:	10	7	8	7	7	7	6	10
1713:	11	12	5	10	6	8	8	10
1721:	9	5	8	7	5	10	7	8
1729:	8	14	6	4	6	9	11	8
1737:	8	10	6	10	7	5	10	8
1745:	7	6	7	8	9	7	7	10
1753:	7	7	6	3	8	3	9	7
1761:	3	0	7	14	11	6	11	6
1769:	14	3	5	6	9	5	8	10
1777:	3	8	9	4	9	9	3	8
1785:	6	11	6	7	9	3	7	7
1793:	3	7	7	7	4	8	6	10
1801:	3	9	2	4	6	4	7	6
1809:	6	9	10	8	4	6	8	7
1817:	4	2	2	5	6	4	4	7
1825:	9	6	2	11	5	1	7	8
1833:	17	47	127	161	89	17	10	6
1841:	6	5	3	6	10	8	6	4
1849:	4	7	3	3	4	6	4	4
1857:	6	7	8	11	5	8	6	4
1865:	7	4	9	6	10	8	5	5
1873:	9	5	3	7	5	6	11	6
1881:	5	3	9	3	2	4	8	7
1889:	9	6	2	5	6	3	8	4
1897:	5	8	4	3	5	3	4	5
1905:	5	12	4	1	10	8	6	13
1913:	7	8	6	3	6	6	12	3
1921:	5	6	5	8	5	5	6	8
1929:	3	2	4	8	4	5	5	6
1937:	4	8	7	5	7	7	6	2
1945:	9	3	4	9	3	3	3	7
1953:	6	4	5	4	7	3	7	6
1961:	9	5	7	7	12	4	4	8
1969:	7	4	4	5	4	10	7	7
1977:	4	8	4	4	6	5	3	9
1985:	5	4	4	4	1	4	5	5
1993:	4	8	5	4	5	6	5	3
2001:	3	4	1	4	5	3	10	4
2009:	5	3	7	6	3	5	1	6
2017:	7	8	3	4	6	5	6	2
2025:	4	5	7	1	4	4	5	4
2033:	5	6	2	9	8	6	8	12
2041:	4	7	7	5	0	3	2	6
2049:	2	3	6	4	7	4	2	3
2057:	6	4	8	2	6	7	1	6
2065:	6	4	7	4	2	5	6	6
2073:	5	9	5	4	6	5	5	5
2081:	4	5	7	5	2	7	4	6
2089:	5	7	5	6	3	7	5	4

2097:	5	4	6	4	6	7	7	12

Sample Title: GAS-1302

Channel								
2105:	5	8	5	5	1	6	7	7
2113:	4	9	7	6	3	6	1	7
2121:	5	5	5	8	4	4	8	3
2129:	3	3	3	6	3	1	3	7
2137:	6	1	6	1	6	9	4	3
2145:	9	8	3	7	5	3	2	4
2153:	3	6	2	6	8	7	3	4
2161:	4	5	5	2	7	5	2	0
2169:	5	3	3	3	6	4	5	6
2177:	5	3	4	4	5	4	1	5
2185:	2	10	6	2	4	7	10	4
2193:	8	5	5	8	3	3	7	6
2201:	7	7	6	2	8	4	4	3
2209:	2	4	3	12	3	7	3	3
2217:	7	5	5	6	4	3	5	6
2225:	4	8	4	5	4	7	6	4
2233:	7	3	6	7	11	7	2	8
2241:	3	7	1	7	6	6	6	2
2249:	3	3	6	6	4	6	5	7
2257:	9	7	8	6	6	6	7	3
2265:	6	6	11	3	10	8	2	5
2273:	6	8	6	9	8	8	5	4
2281:	5	6	10	7	3	7	5	4
2289:	2	11	6	7	5	5	2	10
2297:	1	11	2	3	3	3	8	5
2305:	2	4	1	5	6	2	4	6
2313:	5	5	1	5	4	3	3	2
2321:	1	4	4	3	6	4	1	4
2329:	2	2	3	1	6	0	2	1
2337:	4	1	2	1	1	0	3	5
2345:	2	1	1	2	4	3	3	4
2353:	2	3	3	4	3	1	2	0
2361:	0	4	3	1	3	2	3	2
2369:	0	1	0	2	2	1	4	1
2377:	0	4	2	0	2	1	4	2
2385:	1	1	2	1	2	1	1	1
2393:	0	1	3	2	1	1	0	2
2401:	1	1	2	1	0	0	0	2
2409:	0	3	1	0	2	0	2	2
2417:	4	0	0	1	0	0	0	2
2425:	1	0	2	1	0	1	1	1
2433:	1	1	2	0	1	2	1	1
2441:	1	0	0	0	2	0	2	0
2449:	0	1	1	3	0	2	1	0
2457:	0	1	0	0	1	1	0	0
2465:	1	0	1	0	3	1	1	1
2473:	0	0	0	0	2	0	1	0
2481:	0	0	1	1	2	0	1	0
2489:	0	0	2	0	0	1	0	2
2497:	2	1	0	3	1	7	34	74
2505:	90	80	18	1	0	1	0	1
2513:	1	0	0	1	0	1	0	0
2521:	0	0	1	0	0	0	0	0

2529:	0	0	0	0	0	1	0	0

Sample Title: GAS-1302

Channel								
2537:	1	0	0	0	0	0	0	0
2545:	0	2	1	0	0	0	0	1
2553:	2	0	0	1	0	0	0	0
2561:	0	0	1	0	0	1	0	0
2569:	0	0	0	0	0	0	1	1
2577:	0	0	0	0	0	0	0	0
2585:	0	0	1	0	0	0	0	1
2593:	0	1	0	2	0	0	2	1
2601:	0	0	1	1	1	0	0	0
2609:	0	0	5	5	5	8	5	2
2617:	0	1	0	0	0	1	0	1
2625:	0	0	1	1	0	0	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	1	1	1	0	0
2649:	1	0	0	0	0	1	0	1
2657:	0	0	1	0	0	0	0	1
2665:	1	0	0	1	0	0	0	0
2673:	0	1	0	0	0	0	0	0
2681:	1	0	0	0	0	0	0	0
2689:	0	1	0	0	0	0	1	1
2697:	1	1	1	0	0	0	0	0
2705:	0	0	0	0	0	0	0	1
2713:	0	0	0	0	0	1	1	0
2721:	1	0	0	0	0	0	1	0
2729:	0	0	0	2	0	1	1	1
2737:	0	0	0	0	0	1	0	0
2745:	0	0	1	0	0	0	0	0
2753:	0	0	0	1	0	0	0	0
2761:	0	0	0	1	0	0	0	0
2769:	0	1	0	0	0	0	0	0
2777:	2	0	0	0	1	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	1	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	1	0	0
2817:	0	0	0	1	2	0	0	0
2825:	0	0	0	0	0	0	0	1
2833:	0	0	1	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	1	0	0	0	0	0
2873:	0	0	0	1	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	0	0	0	0
2897:	0	0	0	0	1	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	1	0
2937:	0	0	1	0	0	0	0	0
2945:	0	0	0	0	0	1	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	1

Sample Title: GAS-1302

Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	1	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	1	0	0	0
3025:	0	0	1	1	0	0	0	1
3033:	0	0	0	1	0	1	0	0
3041:	1	0	0	0	0	0	0	0
3049:	1	0	0	0	1	0	0	0
3057:	0	0	1	1	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	1	0	0	1	0
3105:	0	0	0	0	0	1	0	0
3113:	1	0	0	0	0	0	0	0
3121:	0	0	1	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	1	0	0	0	0	0
3241:	0	0	0	1	0	0	0	0
3249:	0	0	1	0	1	0	0	1
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	1	0	0	1	0	0	0	0
3281:	0	0	0	0	0	1	1	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	1
3321:	0	0	0	0	0	0	0	0
3329:	0	0	2	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	1	0	0	0
3361:	0	1	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	1	0	0	1	0	0	0

Sample Title: GAS-1302

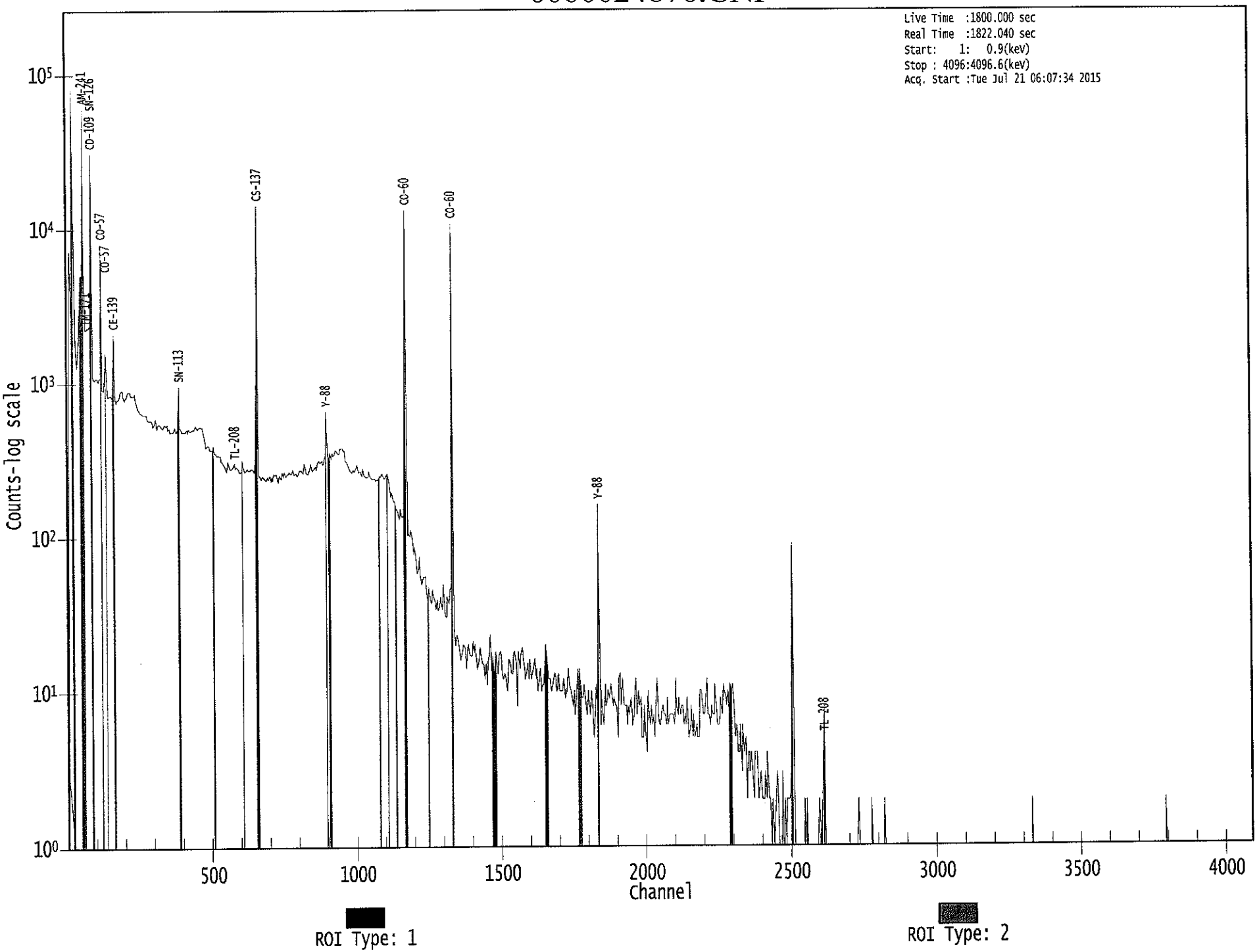
Channel								
3401:	0	0	0	0	0	1	1	0
3409:	0	0	0	0	0	0	0	0
3417:	1	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	0	0	0	1	0	0	0
3481:	0	0	0	1	0	1	1	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	1	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	1	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	1	0	0
3561:	0	0	0	0	0	1	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	1	1	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	1	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	1	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	1	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	1	0	0	0	0	1
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	1	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	1	0
3761:	0	0	0	0	0	0	0	0
3769:	1	0	0	0	0	1	1	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	1	0	0	0	0
3793:	2	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	1	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	1	0	0
3849:	0	0	0	0	0	0	0	1
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	0	1	0	0	1
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	1	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	1	0	0	1
4041:	0	0	1	0	0	0	0	1
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	1	0	0	0	0	0	0
4073:	1	0	0	0	1	0	0	0
4081:	0	0	0	1	0	0	0	0
4089:	0	0	0	0	0	0	1	0

0000024876.CNF



Apex-Gamma

Analysis Report for 1506115-02
BLANK

7/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506115-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 7/21/2015 5:11:30AM
Acquisition Started	: 7/21/2015 6:07:41AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3612.7 seconds
Dead Time	: 0.35 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24877

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/22/15

Analysis Report for 1506115-02

BLANK

PEAK LOCATE REPORT

Peak Locate Performed on : 7/21/2015 7:07:55AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	232.32	232.45	0.0000	0.00
2	353.56	353.63	0.0000	0.00
3	394.51	394.56	0.0000	0.00
4	597.05	597.00	0.0000	0.00
5	601.05	601.00	0.0000	0.00
6	643.32	643.24	0.0000	0.00
7	673.00	672.91	0.0000	0.00
8	729.00	728.88	0.0000	0.00
9	761.62	761.49	0.0000	0.00
10	822.55	822.40	0.0000	0.00
11	915.97	915.77	0.0000	0.00
12	950.11	949.90	0.0000	0.00
13	977.12	976.89	0.0000	0.00
14	1093.13	1092.86	0.0000	0.00
15	1311.48	1311.11	0.0000	0.00
16	1652.09	1651.60	0.0000	0.00
17	1718.04	1717.53	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506115-02

BLANK

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 7:07:55AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	232.32	230 -	241	232.45	1.67E+01	16.75	4.50E+01	2.28
	2	353.56	349 -	358	353.63	2.28E+01	24.64	7.04E+01	4.98
	3	394.51	392 -	396	394.56	1.03E+01	12.43	2.54E+01	1.06
M	4	597.05	592 -	606	597.00	1.21E+01	11.87	1.58E+01	1.99
m	5	601.05	592 -	606	601.00	1.03E+01	11.36	1.39E+01	2.00
	6	643.32	639 -	646	643.24	1.41E+01	10.20	7.89E+00	4.78
	7	673.00	669 -	677	672.91	1.05E+01	10.02	9.00E+00	5.28
	8	729.00	725 -	733	728.88	1.62E+01	9.60	3.67E+00	3.68
	9	761.62	757 -	764	761.49	1.30E+01	11.14	1.19E+01	2.70
	10	822.55	818 -	826	822.40	1.39E+01	9.18	4.25E+00	2.49
	11	915.97	913 -	918	915.77	5.71E+00	6.08	2.57E+00	2.74
	12	950.11	948 -	952	949.90	7.06E+00	6.18	1.88E+00	2.81
	13	977.12	974 -	979	976.89	5.57E+00	6.08	2.86E+00	2.68
	14	1093.13	1088 -	1096	1092.86	8.00E+00	9.41	8.00E+00	2.79
	15	1311.48	1308 -	1313	1311.11	4.58E+00	5.74	2.83E+00	1.84
	16	1652.09	1648 -	1653	1651.60	5.00E+00	4.47	0.00E+00	1.70
	17	1718.04	1714 -	1721	1717.53	5.88E+00	6.93	4.25E+00	2.94

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/21/2015 7:07:55AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1506115-02

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	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	232.32	230 -	241	1.67E+01	16.75	4.50E+01	1.10E+01
	2	353.56	349 -	358	2.28E+01	24.64	7.04E+01	1.87E+01
	3	394.51	392 -	396	1.03E+01	12.43	2.54E+01	8.75E+00
M	4	597.05	592 -	606	1.21E+01	11.87	1.58E+01	6.53E+00
m	5	601.05	592 -	606	1.03E+01	11.36	1.39E+01	6.14E+00
	6	643.32	639 -	646	1.41E+01	10.20	7.89E+00	5.68E+00
	7	673.00	669 -	677	1.05E+01	10.02	9.00E+00	6.29E+00
	8	729.00	725 -	733	1.62E+01	9.60	3.67E+00	4.32E+00
	9	761.62	757 -	764	1.30E+01	11.14	1.19E+01	6.97E+00
	10	822.55	818 -	826	1.39E+01	9.18	4.25E+00	4.41E+00
	11	915.97	913 -	918	5.71E+00	6.08	2.57E+00	3.09E+00
	12	950.11	948 -	952	7.06E+00	6.18	1.88E+00	2.60E+00
	13	977.12	974 -	979	5.57E+00	6.08	2.86E+00	3.15E+00
	14	1093.13	1088 -	1096	8.00E+00	9.41	8.00E+00	6.18E+00
	15	1311.48	1308 -	1313	4.58E+00	5.74	2.83E+00	3.15E+00
	16	1652.09	1648 -	1653	5.00E+00	4.47	0.00E+00	0.00E+00
	17	1718.04	1714 -	1721	5.88E+00	6.93	4.25E+00	4.07E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/21/2015 7:07:55AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	232.32	230 -	241	232.45	1.67E+01	16.75	4.50E+01	.....
	2	353.56	349 -	358	353.63	2.28E+01	24.64	7.04E+01	.....
	3	394.51	392 -	396	394.56	1.03E+01	12.43	2.54E+01	.....
M	4	597.05	592 -	606	597.00	1.21E+01	11.87	1.58E+01	.....
m	5	601.05	592 -	606	601.00	1.03E+01	11.36	1.39E+01	SB-125
	6	643.32	639 -	646	643.24	1.41E+01	10.20	7.89E+00	.....
	7	673.00	669 -	677	672.91	1.05E+01	10.02	9.00E+00	.....
	8	729.00	725 -	733	728.88	1.62E+01	9.60	3.67E+00	.....

Analysis Report for 1506115-02

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Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
9	761.62	757 -	764	761.49	1.30E+01	11.14	1.19E+01	.....
10	822.55	818 -	826	822.40	1.39E+01	9.18	4.25E+00	.....
11	915.97	913 -	918	915.77	5.71E+00	6.08	2.57E+00	.....
12	950.11	948 -	952	949.90	7.06E+00	6.18	1.88E+00	.....
13	977.12	974 -	979	976.89	5.57E+00	6.08	2.86E+00	.....
14	1093.13	1088 -	1096	1092.86	8.00E+00	9.41	8.00E+00	LU-172
15	1311.48	1308 -	1313	1311.11	4.58E+00	5.74	2.83E+00	V-48
16	1652.09	1648 -	1653	1651.60	5.00E+00	4.47	0.00E+00	.....
17	1718.04	1714 -	1721	1717.53	5.88E+00	6.93	4.25E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/21/2015 7:07:55AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	232.32	1.67E+01	16.75	1.55E-02	1.21E-03
	2	353.56	2.28E+01	24.64	1.10E-02	8.91E-04
	3	394.51	1.03E+01	12.43	1.00E-02	8.34E-04
M	4	597.05	1.21E+01	11.87	6.99E-03	6.32E-04
m	5	601.05	1.03E+01	11.36	6.95E-03	6.28E-04
	6	643.32	1.41E+01	10.20	6.55E-03	5.86E-04
	7	673.00	1.05E+01	10.02	6.30E-03	5.59E-04
	8	729.00	1.62E+01	9.60	5.88E-03	5.13E-04
	9	761.62	1.30E+01	11.14	5.66E-03	4.86E-04
	10	822.55	1.39E+01	9.18	5.30E-03	4.36E-04
	11	915.97	5.71E+00	6.08	4.83E-03	3.71E-04
	12	950.11	7.06E+00	6.18	4.68E-03	3.65E-04
	13	977.12	5.57E+00	6.08	4.57E-03	3.60E-04
	14	1093.13	8.00E+00	9.41	4.16E-03	3.38E-04
	15	1311.48	4.58E+00	5.74	3.58E-03	2.93E-04
	16	1652.09	5.00E+00	4.47	3.00E-03	2.41E-04
	17	1718.04	5.88E+00	6.93	2.91E-03	2.31E-04

Analysis Report for 1506115-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/21/2015 7:07:55AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	232.32	1.67E+01	16.75			1.67E+01	1.67E+01
	2	353.56	2.28E+01	24.64			2.28E+01	2.46E+01
	3	394.51	1.03E+01	12.43			1.03E+01	1.24E+01
M	4	597.05	1.21E+01	11.87			1.21E+01	1.19E+01
m	5	601.05	1.03E+01	11.36			1.03E+01	1.14E+01
	6	643.32	1.41E+01	10.20			1.41E+01	1.02E+01
	7	673.00	1.05E+01	10.02			1.05E+01	1.00E+01
	8	729.00	1.62E+01	9.60			1.62E+01	9.60E+00
	9	761.62	1.30E+01	11.14			1.30E+01	1.11E+01
	10	822.55	1.39E+01	9.18			1.39E+01	9.18E+00
	11	915.97	5.71E+00	6.08			5.71E+00	6.08E+00
	12	950.11	7.06E+00	6.18			7.06E+00	6.18E+00
	13	977.12	5.57E+00	6.08			5.57E+00	6.08E+00
	14	1093.13	8.00E+00	9.41			8.00E+00	9.41E+00
	15	1311.48	4.58E+00	5.74			4.58E+00	5.74E+00
	16	1652.09	5.00E+00	4.47			5.00E+00	4.47E+00
	17	1718.04	5.88E+00	6.93			5.88E+00	6.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506115-02

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AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/21/2015 7:07:55AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	232.32	1.67E+01	16.75			1.67E+01	1.67E+01
	2	353.56	2.28E+01	24.64			2.28E+01	2.46E+01
	3	394.51	1.03E+01	12.43			1.03E+01	1.24E+01
M	4	597.05	1.21E+01	11.87			1.21E+01	1.19E+01
m	5	601.05	1.03E+01	11.36			1.03E+01	1.14E+01
	6	643.32	1.41E+01	10.20			1.41E+01	1.02E+01
	7	673.00	1.05E+01	10.02			1.05E+01	1.00E+01
	8	729.00	1.62E+01	9.60			1.62E+01	9.60E+00
	9	761.62	1.30E+01	11.14			1.30E+01	1.11E+01
	10	822.55	1.39E+01	9.18			1.39E+01	9.18E+00
	11	915.97	5.71E+00	6.08			5.71E+00	6.08E+00
	12	950.11	7.06E+00	6.18			7.06E+00	6.18E+00
	13	977.12	5.57E+00	6.08			5.57E+00	6.08E+00
	14	1093.13	8.00E+00	9.41			8.00E+00	9.41E+00
	15	1311.48	4.58E+00	5.74			4.58E+00	5.74E+00
	16	1652.09	5.00E+00	4.47			5.00E+00	4.47E+00
	17	1718.04	5.88E+00	6.93			5.88E+00	6.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty
	*			?	

Analysis Report for 1506115-02

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Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty
		*		?	

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 7:07:55AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	232.32	4.64040E-03	50.13		
	2	353.56	6.33142E-03	54.05		
	3	394.51	2.86232E-03	60.31		
M	4	597.05	3.35762E-03	49.12		
m	5	601.05	2.85845E-03	55.19	Tol.	SB-125
	6	643.32	3.90432E-03	36.28		
	7	673.00	2.91667E-03	47.74		
	8	729.00	4.49074E-03	29.71		
	9	761.62	3.61842E-03	42.74		
	10	822.55	3.85417E-03	33.08		
	11	915.97	1.58730E-03	53.22		
	12	950.11	1.96181E-03	43.79		
	13	977.12	1.54762E-03	54.59		
	14	1093.13	2.22222E-03	58.80	Tol.	LU-172
	15	1311.48	1.27315E-03	62.67	Tol.	V-48
	16	1652.09	1.38889E-03	44.72		
	17	1718.04	1.63194E-03	58.96		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506115-02
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NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506115-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/21/2015 7:07:55AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	232.32	4.64040E-03	50.13		
	2	353.56	6.33142E-03	54.05		
	3	394.51	2.86232E-03	60.31		
M	4	597.05	3.35762E-03	49.12		
m	5	601.05	2.85845E-03	55.19	Tol.	SB-125
	6	643.32	3.90432E-03	36.28		
	7	673.00	2.91667E-03	47.74		
	8	729.00	4.49074E-03	29.71		
	9	761.62	3.61842E-03	42.74		
	10	822.55	3.85417E-03	33.08		
	11	915.97	1.58730E-03	53.22		
	12	950.11	1.96181E-03	43.79		
	13	977.12	1.54762E-03	54.59		
	14	1093.13	2.22222E-03	58.80	Tol.	LU-172
	15	1311.48	1.27315E-03	62.67	Tol.	V-48
	16	1652.09	1.38889E-03	44.72		
	17	1718.04	1.63194E-03	58.96		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)

Analysis Report for 1506115-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	2.58E-02	3.19E-01	3.19E-01
+	NA-22	1274.54	99.94	-3.27E-04	3.14E-02	3.14E-02
+	NA-24	1368.53	99.99	8.87E-03	5.05E-02	5.15E-02
		2754.09	99.86	0.00E+00		5.05E-02
+	AL-26	1808.65	99.76	-6.84E-03	2.52E-02	2.52E-02
+	K-40	1460.81	10.67	2.54E-01	4.95E-01	4.95E-01
+	AR-41	1293.64	99.16	-1.46E-02	7.97E-02	7.97E-02
+	TI-44	67.88	94.40	-5.92E-03	1.66E-02	1.98E-02
		78.34	96.00	-1.58E-02		1.66E-02
+	SC-46	889.25	99.98	1.04E-03	2.83E-02	3.77E-02
		1120.51	99.99	-3.82E-03		2.83E-02
+	V-48	983.52	99.98	-4.53E-03	3.17E-02	3.17E-02
		1312.10	97.50	-6.19E-03		4.36E-02
+	CR-51	320.08	9.83	8.96E-02	2.79E-01	2.79E-01
+	MN-54	834.83	99.97	3.88E-03	3.57E-02	3.57E-02
+	CO-56	846.75	99.96	-6.90E-03	3.73E-02	3.73E-02
		1037.75	14.03	-3.67E-02		2.22E-01
		1238.25	67.00	-4.76E-03		4.58E-02
		1771.40	15.51	-7.23E-02		2.34E-01
		2598.48	16.90	-2.53E-02		1.86E-01
+	CO-57	122.06	85.51	-7.07E-03	1.60E-02	1.60E-02
		136.48	10.60	-3.88E-02		1.53E-01
+	CO-58	810.76	99.40	7.54E-03	3.50E-02	3.50E-02
+	FE-59	1099.22	56.50	-1.26E-02	6.15E-02	6.15E-02
		1291.56	43.20	-1.39E-02		1.02E-01
+	CO-60	1173.22	100.00	5.29E-03	4.07E-02	4.07E-02
		1332.49	100.00	1.85E-02		4.51E-02
+	ZN-65	1115.52	50.75	1.15E-02	4.97E-02	4.97E-02
+	GA-67	93.31	35.70	7.62E-02	6.58E-02	6.58E-02
		208.95	2.24	1.31E-01		1.04E+00
		300.22	16.00	-6.09E-02		1.61E-01
+	SE-75	121.11	16.70	-1.10E-02	2.83E-02	8.43E-02
		136.00	59.20	-2.46E-03		2.83E-02
		264.65	59.80	1.17E-02		3.72E-02
		279.53	25.20	2.14E-02		9.91E-02
		400.65	11.40	1.10E-01		2.60E-01
+	RB-82	776.52	13.00	-2.65E-02	2.50E-01	2.50E-01
+	RB-83	520.41	46.00	-2.71E-02	5.93E-02	5.93E-02
		529.64	30.30	-1.01E-02		8.45E-02
		552.65	16.40	3.91E-02		1.80E-01
+	KR-85	513.99	0.43	7.62E+00	1.15E+01	1.15E+01
+	SR-85	513.99	99.27	3.33E-02	5.01E-02	5.01E-02
+	Y-88	898.02	93.40	-8.36E-03	2.56E-02	3.32E-02
		1836.01	99.38	-3.47E-03		2.56E-02
+	NB-93M	16.57	9.43	1.46E+01	3.71E+01	3.71E+01
+	NB-94	702.63	100.00	2.49E-03	3.71E-02	3.71E-02
		871.10	100.00	6.65E-03		3.82E-02

Analysis Report for 1506115-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	-8.15E-03	3.43E-02	3.43E-02
+	NB-95M	235.69	25.00	-6.78E-03	9.85E-02	9.85E-02
+	ZR-95	724.18	43.70	3.09E-03	5.53E-02	6.73E-02
		756.72	55.30	-1.22E-03		5.53E-02
+	MO-99	181.06	6.20	-1.62E-01	2.28E-01	2.58E-01
		739.58	12.80	1.70E-02		2.28E-01
		778.00	4.50	-2.78E-02		7.83E-01
+	RU-103	497.08	89.00	1.79E-03	3.22E-02	3.22E-02
+	RU-106	621.84	9.80	8.52E-04	3.17E-01	3.17E-01
+	AG-108M	433.93	89.90	1.07E-02	3.05E-02	3.05E-02
		614.37	90.40	-2.88E-02		3.40E-02
		722.95	90.50	7.78E-03		3.37E-02
+	CD-109	88.03	3.72	5.85E-03	5.02E-01	5.02E-01
+	AG-110M	657.75	93.14	-1.12E-02	3.22E-02	3.22E-02
		677.61	10.53	-4.84E-03		2.05E-01
		706.67	16.46	5.30E-02		2.06E-01
		763.93	21.98	-2.70E-02		1.69E-01
		884.67	71.63	-1.25E-02		4.68E-02
		1384.27	23.94	3.89E-02		1.64E-01
+	CD-113M	263.70	0.02	1.10E+01	9.19E+01	9.19E+01
+	SN-113	255.12	1.93	5.95E-02	4.00E-02	1.07E+00
		391.69	64.90	-6.69E-03		4.00E-02
+	TE123M	159.00	84.10	5.46E-03	2.13E-02	2.13E-02
+	SB-124	602.71	97.87	5.93E-03	3.32E-02	3.32E-02
		645.85	7.26	-3.37E-02		4.07E-01
		722.78	11.10	6.35E-02		2.75E-01
		1691.02	49.00	3.32E-03		7.98E-02
+	I-125	35.49	6.49	1.99E-01	1.02E+00	1.02E+00
+	SB-125	176.33	6.89	-2.73E-03	7.85E-02	2.44E-01
		427.89	29.33	-1.18E-02		7.85E-02
		463.38	10.35	-4.44E-02		2.60E-01
		600.56	17.80	1.76E-02		1.97E-01
		635.90	11.32	1.53E-01		2.80E-01
+	SB-126	414.70	83.30	9.18E-03	2.89E-02	2.89E-02
		666.33	99.60	1.02E-02		3.32E-02
		695.00	99.60	-1.46E-02		3.27E-02
		720.50	53.80	1.26E-02		5.86E-02
+	SN-126	87.57	37.00	5.88E-04	5.05E-02	5.05E-02
+	SB-127	473.00	25.00	2.01E-03	6.94E-02	1.22E-01
		685.20	35.70	-1.61E-02		6.94E-02
		783.80	14.70	-9.82E-02		2.33E-01
+	I-129	29.78	57.00	-1.73E-02	2.20E-01	2.20E-01
		33.60	13.20	-1.09E-01		6.00E-01
		39.58	7.52	-1.17E-02		6.72E-01
+	I-131	284.30	6.05	2.99E-01	2.77E-02	4.21E-01
		364.48	81.20	-4.81E-05		2.77E-02
		636.97	7.26	1.43E-01		4.04E-01
		722.89	1.80	3.93E-01		1.70E+00

Analysis Report for 1506115-02

BLANK

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TE-132	49.72	13.10	-3.43E-01	2.25E-02	1.99E-01
		228.16	88.00	-5.45E-03		2.25E-02
+	BA-133	81.00	33.00	2.38E-02	4.23E-02	5.51E-02
		302.84	17.80	-8.28E-03		1.42E-01
		356.01	60.00	-7.22E-03		4.23E-02
+	I-133	529.87	86.30	-3.70E-03	3.11E-02	3.11E-02
+	CS-134	563.23	8.38	1.14E-01	3.03E-02	3.96E-01
		569.32	15.43	6.21E-02		1.96E-01
		604.70	97.60	-1.42E-02		3.03E-02
		795.84	85.40	-1.14E-02		3.74E-02
		801.93	8.73	8.11E-02		3.68E-01
+	CS-135	268.24	16.00	-3.44E-04	1.45E-01	1.45E-01
+	I-135	1131.51	22.50	-5.36E-03	1.58E-01	1.94E-01
		1260.41	28.60	7.37E-02		1.58E-01
		1678.03	9.54	-1.97E-02		4.73E-01
+	CS-136	153.22	7.46	1.71E-02	2.88E-02	2.16E-01
		163.89	4.61	1.31E-02		3.49E-01
		176.55	13.56	2.14E-02		1.24E-01
		273.65	12.66	-4.11E-03		1.87E-01
		340.57	48.50	3.29E-03		5.27E-02
		818.50	99.70	1.81E-03		2.88E-02
		1048.07	79.60	4.90E-03		4.45E-02
		1235.34	19.70	-5.62E-02		1.40E-01
+	CS-137	661.65	85.12	2.68E-02	4.49E-02	4.49E-02
+	LA-138	788.74	34.00	3.34E-02	5.71E-02	1.15E-01
		1435.80	66.00	2.18E-03		5.71E-02
+	CE-139	165.85	80.35	-2.36E-03	1.97E-02	1.97E-02
+	BA-140	162.64	6.70	3.00E-03	1.07E-01	2.51E-01
		304.84	4.50	2.73E-01		6.04E-01
		423.70	3.20	3.26E-01		7.32E-01
		437.55	2.00	4.57E-01		1.41E+00
		537.32	25.00	-3.13E-03		1.07E-01
+	LA-140	328.77	20.50	1.66E-02	4.92E-02	1.33E-01
		487.03	45.50	2.28E-02		7.13E-02
		815.85	23.50	3.96E-02		1.34E-01
		1596.49	95.49	-6.55E-03		4.92E-02
+	CE-141	145.44	48.40	2.20E-03	3.44E-02	3.44E-02
+	CE-143	57.36	11.80	-5.19E-02	5.93E-02	1.92E-01
		293.26	42.00	8.68E-04		5.93E-02
		664.55	5.20	4.67E-01		7.46E-01
+	CE-144	133.54	10.80	-1.40E-02	1.50E-01	1.50E-01
+	PM-144	476.78	42.00	-4.91E-02	3.29E-02	7.09E-02
		618.01	98.60	9.23E-03		3.29E-02
		696.49	99.49	4.19E-03		3.62E-02
+	PM-145	36.85	21.70	-4.28E-02	1.43E-01	2.68E-01
		37.36	39.70	1.10E-02		1.43E-01
		42.30	15.10	7.05E-02		2.95E-01
		72.40	2.31	-1.31E-01		7.79E-01
+	PM-146	453.90	39.94	-1.76E-02	6.35E-02	6.35E-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90	14.01	4.19E-03	6.35E-02	1.76E-01
		747.13	13.10	2.54E-02		2.71E-01
+	ND-147	91.11	28.90	5.77E-02	7.98E-02	7.98E-02
		531.02	13.10	-4.74E-03		2.07E-01
+	PM-149	285.90	3.10	-8.13E-02	7.69E-01	7.69E-01
+	EU-152	121.78	20.50	-2.94E-02	6.66E-02	6.66E-02
		244.69	5.40	-6.33E-02		3.82E-01
		344.27	19.13	2.77E-02		1.40E-01
		778.89	9.20	1.16E-01		3.89E-01
		964.01	10.40	8.51E-02		3.88E-01
		1085.78	7.22	7.93E-02		4.47E-01
		1112.02	9.60	1.03E-01		3.65E-01
		1407.95	14.94	5.30E-02		2.48E-01
+	GD-153	97.43	31.30	-9.80E-03	4.91E-02	4.91E-02
		103.18	22.20	7.15E-03		6.48E-02
+	EU-154	123.07	40.50	-1.56E-02	3.39E-02	3.39E-02
		723.30	19.70	3.58E-02		1.55E-01
		873.19	11.50	2.31E-02		3.33E-01
		996.32	10.30	-1.23E-01		3.11E-01
		1004.76	17.90	3.51E-02		1.80E-01
		1274.45	35.50	-9.20E-04		8.84E-02
+	EU-155	86.50	30.90	2.41E-02	6.11E-02	6.11E-02
		105.30	20.70	-3.14E-02		6.98E-02
+	EU-156	811.77	10.40	1.21E-01	3.47E-01	3.47E-01
		1153.47	7.20	1.27E-01		5.84E-01
		1230.71	8.90	2.57E-01		4.77E-01
+	HO-166M	184.41	72.60	2.53E-02	3.07E-02	3.07E-02
		280.45	29.60	2.78E-02		8.62E-02
		410.94	11.10	-9.14E-02		2.10E-01
		711.69	54.10	1.65E-02		6.12E-02
+	TM-171	66.72	0.14	-2.96E+01	1.30E+01	1.30E+01
+	HF-172	81.75	4.52	1.36E-01	1.31E-01	4.06E-01
		125.81	11.30	3.50E-03		1.31E-01
+	LU-172	181.53	20.60	-7.00E-02	6.73E-02	7.90E-02
		810.06	16.63	4.78E-02		2.10E-01
		912.12	15.25	5.40E-02		2.27E-01
		1093.66	62.50	2.11E-02		6.73E-02
+	LU-173	100.72	5.24	-1.55E-01	1.11E-01	2.56E-01
		272.11	21.20	2.84E-02		1.11E-01
+	HF-175	343.40	84.00	-1.62E-02	3.02E-02	3.02E-02
+	LU-176	88.34	13.30	-2.56E-01	2.48E-02	1.40E-01
		201.83	86.00	-1.29E-02		2.48E-02
		306.78	94.00	-7.56E-03		2.78E-02
+	TA-182	67.75	41.20	-1.36E-02	4.54E-02	4.54E-02
		1121.30	34.90	6.74E-03		9.51E-02
		1189.05	16.23	-4.41E-02		1.99E-01
		1221.41	26.98	4.68E-02		1.23E-01
		1231.02	11.44	1.44E-01		3.52E-01
+	IR-192	308.46	29.68	1.58E-02	5.99E-02	9.04E-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07	48.10	-3.20E-02	5.99E-02	5.99E-02
+	HG-203	279.19	77.30	-8.70E-03	3.10E-02	3.10E-02
+	BI-207	569.67	97.72	-1.14E-02	2.79E-02	2.79E-02
		1063.62	74.90	-7.51E-03		4.24E-02
+	TL-208	583.14	30.22	1.31E-02	1.07E-01	1.07E-01
		860.37	4.48	-3.15E-01		4.52E-01
		2614.66	35.85	4.77E-02		1.43E-01
+	BI-210M	262.00	45.00	5.40E-03	4.55E-02	4.55E-02
		300.00	23.00	-4.18E-02		1.11E-01
+	PB-210	46.50	4.25	4.48E-01	8.37E-01	8.37E-01
+	PB-211	404.84	2.90	2.64E-01	9.78E-01	9.78E-01
		831.96	2.90	-4.30E-02		1.14E+00
+	BI-212	727.17	11.80	6.46E-02	2.94E-01	2.94E-01
		1620.62	2.75	5.73E-02		1.50E+00
+	PB-212	238.63	44.60	3.91E-02	5.51E-02	5.51E-02
		300.09	3.41	-2.82E-01		7.46E-01
+	BI-214	609.31	46.30	4.22E-02	7.54E-02	7.54E-02
		1120.29	15.10	-2.53E-02		1.87E-01
		1764.49	15.80	7.07E-03		2.28E-01
		2204.22	4.98	1.95E-01		9.38E-01
+	PB-214	295.21	19.19	5.02E-02	7.66E-02	1.33E-01
		351.92	37.19	-3.08E-02		7.66E-02
+	RN-219	401.80	6.50	1.05E-01	4.52E-01	4.52E-01
+	RA-223	323.87	3.88	-4.36E-01	6.45E-01	6.45E-01
+	RA-224	240.98	3.95	-1.46E-01	6.17E-01	6.17E-01
+	RA-225	40.00	31.00	-2.77E-03	1.60E-01	1.60E-01
+	RA-226	186.21	3.28	6.66E-01	6.88E-01	6.88E-01
+	TH-227	50.10	8.40	-5.23E-01	2.12E-01	3.04E-01
		236.00	11.50	-1.46E-02		2.12E-01
		256.20	6.30	5.91E-03		3.15E-01
+	AC-228	338.32	11.40	-5.78E-02	1.24E-01	2.07E-01
		911.07	27.70	3.60E-02		1.24E-01
		969.11	16.60	9.15E-02		2.60E-01
+	TH-230	48.44	16.90	-2.95E-02	1.80E-01	1.80E-01
		62.85	4.60	3.58E-01		5.62E-01
		67.67	0.37	-1.51E+00		5.06E+00
+	PA-231	283.67	1.60	1.12E+00	1.10E+00	1.58E+00
		302.67	2.30	-6.40E-02		1.10E+00
+	TH-231	25.64	14.70	2.10E-01	2.89E-01	1.68E+00
		84.21	6.40	-3.22E-02		2.89E-01
+	PA-233	311.98	38.60	-2.38E-03	6.60E-02	6.60E-02
+	PA-234	131.20	20.40	-1.01E-02	7.68E-02	7.68E-02
		733.99	8.80	-4.66E-02		2.44E-01
		946.00	12.00	-2.12E-02		3.20E-01
+	PA-234M	1001.03	0.92	0.00E+00	3.49E+00	3.49E+00
+	TH-234	63.29	3.80	8.75E-01	6.63E-01	6.63E-01
+	U-235	143.76	10.50	-5.82E-04	1.59E-01	1.59E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35	4.70	1.28E-02	1.59E-01	3.40E-01
		205.31	4.70	2.22E-01		4.84E-01
+	NP-237	86.50	12.60	5.90E-02	1.50E-01	1.50E-01
+	NP-239	106.10	22.70	4.92E-03	6.93E-02	6.93E-02
		228.18	10.70	-4.50E-02		1.86E-01
		277.60	14.10	-4.36E-02		1.70E-01
+	AM-241	59.54	35.90	-4.30E-02	6.22E-02	6.22E-02
+	AM-243	74.67	66.00	3.30E-03	2.61E-02	2.61E-02
+	CM-243	209.75	3.29	-8.85E-02	1.69E-01	6.72E-01
		228.14	10.60	-4.47E-02		1.84E-01
		277.60	14.00	-4.31E-02		1.69E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	3.19E-01	3.19E-01	2.58E-02	1.45E-01
NA-22	1274.54	99.94	3.14E-02	3.14E-02	-3.27E-04	1.22E-02
NA-24	1368.53	99.99	5.15E-02	5.05E-02	8.87E-03	2.17E-02
	2754.09	99.86	5.05E-02		0.00E+00	1.89E-02
AL-26	1808.65	99.76	2.52E-02	2.52E-02	-6.84E-03	7.96E-03
K-40	1460.81	10.67	4.95E-01	4.95E-01	2.54E-01	2.11E-01
AR-41	1293.64	99.16	7.97E-02	7.97E-02	-1.46E-02	3.36E-02
TI-44	67.88	94.40	1.98E-02	1.66E-02	-5.92E-03	9.29E-03
	78.34	96.00	1.66E-02		-1.58E-02	7.75E-03
SC-46	889.25	99.98	3.77E-02	2.83E-02	1.04E-03	1.62E-02
	1120.51	99.99	2.83E-02		-3.82E-03	1.09E-02
V-48	983.52	99.98	3.17E-02	3.17E-02	-4.53E-03	1.30E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
V-48	1312.10	97.50	4.36E-02	3.17E-02	-6.19E-03	1.81E-02
CR-51	320.08	9.83	2.79E-01	2.79E-01	8.96E-02	1.29E-01
MN-54	834.83	99.97	3.57E-02	3.57E-02	3.88E-03	1.54E-02
CO-56	846.75	99.96	3.73E-02	3.73E-02	-6.90E-03	1.62E-02
	1037.75	14.03	2.22E-01		-3.67E-02	8.96E-02
	1238.25	67.00	4.58E-02		-4.76E-03	1.77E-02
	1771.40	15.51	2.34E-01		-7.23E-02	8.74E-02
	2598.48	16.90	1.86E-01		-2.53E-02	5.88E-02
CO-57	122.06	85.51	1.60E-02	1.60E-02	-7.07E-03	7.34E-03
	136.48	10.60	1.53E-01		-3.88E-02	7.10E-02
CO-58	810.76	99.40	3.50E-02	3.50E-02	7.54E-03	1.51E-02
FE-59	1099.22	56.50	6.15E-02	6.15E-02	-1.26E-02	2.52E-02
	1291.56	43.20	1.02E-01		-1.39E-02	4.27E-02
CO-60	1173.22	100.00	4.07E-02	4.07E-02	5.29E-03	1.70E-02
	1332.49	100.00	4.51E-02		1.85E-02	1.89E-02
ZN-65	1115.52	50.75	4.97E-02	4.97E-02	1.15E-02	1.86E-02
GA-67	93.31	35.70	6.58E-02	6.58E-02	7.62E-02	3.14E-02
	208.95	2.24	1.04E+00		1.31E-01	4.83E-01
	300.22	16.00	1.61E-01		-6.09E-02	7.40E-02
SE-75	121.11	16.70	8.43E-02	2.83E-02	-1.10E-02	3.88E-02
	136.00	59.20	2.83E-02		-2.46E-03	1.32E-02
	264.65	59.80	3.72E-02		1.17E-02	1.70E-02
	279.53	25.20	9.91E-02		2.14E-02	4.57E-02
	400.65	11.40	2.60E-01		1.10E-01	1.19E-01
RB-82	776.52	13.00	2.50E-01	2.50E-01	-2.65E-02	1.07E-01
RB-83	520.41	46.00	5.93E-02	5.93E-02	-2.71E-02	2.61E-02
	529.64	30.30	8.45E-02		-1.01E-02	3.67E-02
	552.65	16.40	1.80E-01		3.91E-02	7.92E-02
KR-85	513.99	0.43	1.15E+01	1.15E+01	7.62E+00	5.35E+00
SR-85	513.99	99.27	5.01E-02	5.01E-02	3.33E-02	2.34E-02
Y-88	898.02	93.40	3.32E-02	2.56E-02	-8.36E-03	1.37E-02
	1836.01	99.38	2.56E-02		-3.47E-03	8.08E-03
NB-93M	16.57	9.43	3.71E+01	3.71E+01	1.46E+01	1.77E+01
NB-94	702.63	100.00	3.71E-02	3.71E-02	2.49E-03	1.64E-02
	871.10	100.00	3.82E-02		6.65E-03	1.65E-02
NB-95	765.79	99.81	3.43E-02	3.43E-02	-8.15E-03	1.49E-02
NB-95M	235.69	25.00	9.85E-02	9.85E-02	-6.78E-03	4.58E-02
ZR-95	724.18	43.70	6.73E-02	5.53E-02	3.09E-03	2.86E-02
	756.72	55.30	5.53E-02		-1.22E-03	2.35E-02
MO-99	181.06	6.20	2.58E-01	2.28E-01	-1.62E-01	1.18E-01
	739.58	12.80	2.28E-01		1.70E-02	9.63E-02
	778.00	4.50	7.83E-01		-2.78E-02	3.39E-01
RU-103	497.08	89.00	3.22E-02	3.22E-02	1.79E-03	1.43E-02
RU-106	621.84	9.80	3.17E-01	3.17E-01	8.52E-04	1.39E-01
AG-108M	433.93	89.90	3.05E-02	3.05E-02	1.07E-02	1.37E-02
	614.37	90.40	3.40E-02		-2.88E-02	1.49E-02
	722.95	90.50	3.37E-02		7.78E-03	1.44E-02
CD-109	88.03	3.72	5.02E-01	5.02E-01	5.85E-03	2.37E-01
AG-110M	657.75	93.14	3.22E-02	3.22E-02	-1.12E-02	1.39E-02
	677.61	10.53	2.05E-01		-4.84E-03	8.28E-02
	706.67	16.46	2.06E-01		5.30E-02	8.97E-02
	763.93	21.98	1.69E-01		-2.70E-02	7.41E-02
	884.67	71.63	4.68E-02		-1.25E-02	1.98E-02

Analysis Report for 1506115-02

BLANK

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	1384.27	23.94	1.64E-01	3.22E-02	3.89E-02	6.64E-02
CD-113M	263.70	0.02	9.19E+01	9.19E+01	1.10E+01	4.19E+01
SN-113	255.12	1.93	1.07E+00	4.00E-02	5.95E-02	4.87E-01
	391.69	64.90	4.00E-02		-6.69E-03	1.80E-02
TE123M	159.00	84.10	2.13E-02	2.13E-02	5.46E-03	9.90E-03
SB-124	602.71	97.87	3.32E-02	3.32E-02	5.93E-03	1.47E-02
	645.85	7.26	4.07E-01		-3.37E-02	1.76E-01
	722.78	11.10	2.75E-01		6.35E-02	1.18E-01
	1691.02	49.00	7.98E-02		3.32E-03	3.09E-02
I-125	35.49	6.49	1.02E+00	1.02E+00	1.99E-01	4.84E-01
SB-125	176.33	6.89	2.44E-01	7.85E-02	-2.73E-03	1.12E-01
	427.89	29.33	7.85E-02		-1.18E-02	3.45E-02
	463.38	10.35	2.60E-01		-4.44E-02	1.16E-01
	600.56	17.80	1.97E-01		1.76E-02	8.82E-02
	635.90	11.32	2.80E-01		1.53E-01	1.23E-01
SB-126	414.70	83.30	2.89E-02	2.89E-02	9.18E-03	1.28E-02
	666.33	99.60	3.32E-02		1.02E-02	1.46E-02
	695.00	99.60	3.27E-02		-1.46E-02	1.42E-02
	720.50	53.80	5.86E-02		1.26E-02	2.52E-02
SN-126	87.57	37.00	5.05E-02	5.05E-02	5.88E-04	2.38E-02
SB-127	473.00	25.00	1.22E-01	6.94E-02	2.01E-03	5.47E-02
	685.20	35.70	6.94E-02		-1.61E-02	2.88E-02
	783.80	14.70	2.33E-01		-9.82E-02	1.00E-01
I-129	29.78	57.00	2.20E-01	2.20E-01	-1.73E-02	1.05E-01
	33.60	13.20	6.00E-01		-1.09E-01	2.86E-01
	39.58	7.52	6.72E-01		-1.17E-02	3.20E-01
I-131	284.30	6.05	4.21E-01	2.77E-02	2.99E-01	1.94E-01
	364.48	81.20	2.77E-02		-4.81E-05	1.23E-02
	636.97	7.26	4.04E-01		1.43E-01	1.75E-01
	722.89	1.80	1.70E+00		3.93E-01	7.28E-01
TE-132	49.72	13.10	1.99E-01	2.25E-02	-3.43E-01	9.37E-02
	228.16	88.00	2.25E-02		-5.45E-03	1.03E-02
BA-133	81.00	33.00	5.51E-02	4.23E-02	2.38E-02	2.59E-02
	302.84	17.80	1.42E-01		-8.28E-03	6.54E-02
	356.01	60.00	4.23E-02		-7.22E-03	1.92E-02
I-133	529.87	86.30	3.11E-02	3.11E-02	-3.70E-03	1.35E-02
CS-134	563.23	8.38	3.96E-01	3.03E-02	1.14E-01	1.77E-01
	569.32	15.43	1.96E-01		6.21E-02	8.64E-02
	604.70	97.60	3.03E-02		-1.42E-02	1.32E-02
	795.84	85.40	3.74E-02		-1.14E-02	1.59E-02
	801.93	8.73	3.68E-01		8.11E-02	1.56E-01
CS-135	268.24	16.00	1.45E-01	1.45E-01	-3.44E-04	6.66E-02
I-135	1131.51	22.50	1.94E-01	1.58E-01	-5.36E-03	8.06E-02
	1260.41	28.60	1.58E-01		7.37E-02	6.48E-02
	1678.03	9.54	4.73E-01		-1.97E-02	1.83E-01
CS-136	153.22	7.46	2.16E-01	2.88E-02	1.71E-02	9.95E-02
	163.89	4.61	3.49E-01		1.31E-02	1.60E-01
	176.55	13.56	1.24E-01		2.14E-02	5.71E-02
	273.65	12.66	1.87E-01		-4.11E-03	8.59E-02
	340.57	48.50	5.27E-02		3.29E-03	2.40E-02
	818.50	99.70	2.88E-02		1.81E-03	1.19E-02
	1048.07	79.60	4.45E-02		4.90E-03	1.84E-02
	1235.34	19.70	1.40E-01		-5.62E-02	5.23E-02

Analysis Report for 1506115-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-137	661.65	85.12	4.49E-02	4.49E-02	2.68E-02	2.01E-02
LA-138	788.74	34.00	1.15E-01	5.71E-02	3.34E-02	5.07E-02
	1435.80	66.00	5.71E-02		2.18E-03	2.26E-02
CE-139	165.85	80.35	1.97E-02	1.97E-02	-2.36E-03	9.02E-03
BA-140	162.64	6.70	2.51E-01	1.07E-01	3.00E-03	1.16E-01
	304.84	4.50	6.04E-01		2.73E-01	2.79E-01
	423.70	3.20	7.32E-01		3.26E-01	3.23E-01
	437.55	2.00	1.41E+00		4.57E-01	6.34E-01
	537.32	25.00	1.07E-01		-3.13E-03	4.67E-02
LA-140	328.77	20.50	1.33E-01	4.92E-02	1.66E-02	6.11E-02
	487.03	45.50	7.13E-02		2.28E-02	3.22E-02
	815.85	23.50	1.34E-01		3.96E-02	5.64E-02
	1596.49	95.49	4.92E-02		-6.55E-03	2.01E-02
CE-141	145.44	48.40	3.44E-02	3.44E-02	2.20E-03	1.59E-02
CE-143	57.36	11.80	1.92E-01	5.93E-02	-5.19E-02	9.01E-02
	293.26	42.00	5.93E-02		8.68E-04	2.72E-02
	664.55	5.20	7.46E-01		4.67E-01	3.33E-01
CE-144	133.54	10.80	1.50E-01	1.50E-01	-1.40E-02	6.96E-02
PM-144	476.78	42.00	7.09E-02	3.29E-02	-4.91E-02	3.18E-02
	618.01	98.60	3.29E-02		9.23E-03	1.45E-02
	696.49	99.49	3.62E-02		4.19E-03	1.60E-02
PM-145	36.85	21.70	2.68E-01	1.43E-01	-4.28E-02	1.27E-01
	37.36	39.70	1.43E-01		1.10E-02	6.82E-02
	42.30	15.10	2.95E-01		7.05E-02	1.41E-01
	72.40	2.31	7.79E-01		-1.31E-01	3.65E-01
PM-146	453.90	39.94	6.35E-02	6.35E-02	-1.76E-02	2.81E-02
	735.90	14.01	1.76E-01		4.19E-03	7.22E-02
	747.13	13.10	2.71E-01		2.54E-02	1.18E-01
ND-147	91.11	28.90	7.98E-02	7.98E-02	5.77E-02	3.80E-02
	531.02	13.10	2.07E-01		-4.74E-03	9.09E-02
PM-149	285.90	3.10	7.69E-01	7.69E-01	-8.13E-02	3.52E-01
EU-152	121.78	20.50	6.66E-02	6.66E-02	-2.94E-02	3.06E-02
	244.69	5.40	3.82E-01		-6.33E-02	1.75E-01
	344.27	19.13	1.40E-01		2.77E-02	6.38E-02
	778.89	9.20	3.89E-01		1.16E-01	1.69E-01
	964.01	10.40	3.88E-01		8.51E-02	1.67E-01
	1085.78	7.22	4.47E-01		7.93E-02	1.81E-01
	1112.02	9.60	3.65E-01		1.03E-01	1.50E-01
	1407.95	14.94	2.48E-01		5.30E-02	9.85E-02
GD-153	97.43	31.30	4.91E-02	4.91E-02	-9.80E-03	2.29E-02
	103.18	22.20	6.48E-02		7.15E-03	3.00E-02
EU-154	123.07	40.50	3.39E-02	3.39E-02	-1.56E-02	1.55E-02
	723.30	19.70	1.55E-01		3.58E-02	6.62E-02
	873.19	11.50	3.33E-01		2.31E-02	1.44E-01
	996.32	10.30	3.11E-01		-1.23E-01	1.27E-01
	1004.76	17.90	1.80E-01		3.51E-02	7.38E-02
	1274.45	35.50	8.84E-02		-9.20E-04	3.42E-02
EU-155	86.50	30.90	6.11E-02	6.11E-02	2.41E-02	2.88E-02
	105.30	20.70	6.98E-02		-3.14E-02	3.23E-02
EU-156	811.77	10.40	3.47E-01	3.47E-01	1.21E-01	1.50E-01
	1153.47	7.20	5.84E-01		1.27E-01	2.47E-01
	1230.71	8.90	4.77E-01		2.57E-01	2.00E-01
HO-166M	184.41	72.60	3.07E-02	3.07E-02	2.53E-02	1.44E-02

Analysis Report for 1506115-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
HO-166M	280.45	29.60	8.62E-02	3.07E-02	2.78E-02	3.98E-02
	410.94	11.10	2.10E-01		-9.14E-02	9.28E-02
	711.69	54.10	6.12E-02		1.65E-02	2.66E-02
TM-171	66.72	0.14	1.30E+01	1.30E+01	-2.96E+01	6.08E+00
HF-172	81.75	4.52	4.06E-01	1.31E-01	1.36E-01	1.91E-01
	125.81	11.30	1.31E-01		3.50E-03	6.07E-02
LU-172	181.53	20.60	7.90E-02	6.73E-02	-7.00E-02	3.61E-02
	810.06	16.63	2.10E-01		4.78E-02	9.06E-02
	912.12	15.25	2.27E-01		5.40E-02	9.60E-02
	1093.66	62.50	6.73E-02		2.11E-02	2.86E-02
LU-173	100.72	5.24	2.56E-01	1.11E-01	-1.55E-01	1.18E-01
	272.11	21.20	1.11E-01		2.84E-02	5.09E-02
HF-175	343.40	84.00	3.02E-02	3.02E-02	-1.62E-02	1.37E-02
LU-176	88.34	13.30	1.40E-01	2.48E-02	-2.56E-01	6.59E-02
	201.83	86.00	2.48E-02		-1.29E-02	1.15E-02
	306.78	94.00	2.78E-02		-7.56E-03	1.28E-02
TA-182	67.75	41.20	4.54E-02	4.54E-02	-1.36E-02	2.13E-02
	1121.30	34.90	9.51E-02		6.74E-03	3.84E-02
	1189.05	16.23	1.99E-01		-4.41E-02	7.92E-02
	1221.41	26.98	1.23E-01		4.68E-02	4.87E-02
	1231.02	11.44	3.52E-01		1.44E-01	1.46E-01
IR-192	308.46	29.68	9.04E-02	5.99E-02	1.58E-02	4.17E-02
	468.07	48.10	5.99E-02		-3.20E-02	2.68E-02
HG-203	279.19	77.30	3.10E-02	3.10E-02	-8.70E-03	1.43E-02
BI-207	569.67	97.72	2.79E-02	2.79E-02	-1.14E-02	1.21E-02
	1063.62	74.90	4.24E-02		-7.51E-03	1.71E-02
TL-208	583.14	30.22	1.07E-01	1.07E-01	1.31E-02	4.74E-02
	860.37	4.48	4.52E-01		-3.15E-01	1.69E-01
	2614.66	35.85	1.43E-01		4.77E-02	5.55E-02
BI-210M	262.00	45.00	4.55E-02	4.55E-02	5.40E-03	2.07E-02
	300.00	23.00	1.11E-01		-4.18E-02	5.08E-02
PB-210	46.50	4.25	8.37E-01	8.37E-01	4.48E-01	3.98E-01
PB-211	404.84	2.90	9.78E-01	9.78E-01	2.64E-01	4.43E-01
	831.96	2.90	1.14E+00		-4.30E-02	4.86E-01
BI-212	727.17	11.80	2.94E-01	2.94E-01	6.46E-02	1.28E-01
	1620.62	2.75	1.50E+00		5.73E-02	5.96E-01
PB-212	238.63	44.60	5.51E-02	5.51E-02	3.91E-02	2.56E-02
	300.09	3.41	7.46E-01		-2.82E-01	3.43E-01
BI-214	609.31	46.30	7.54E-02	7.54E-02	4.22E-02	3.36E-02
	1120.29	15.10	1.87E-01		-2.53E-02	7.24E-02
	1764.49	15.80	2.28E-01		7.07E-03	8.55E-02
	2204.22	4.98	9.38E-01		1.95E-01	3.64E-01
PB-214	295.21	19.19	1.33E-01	7.66E-02	5.02E-02	6.15E-02
	351.92	37.19	7.66E-02		-3.08E-02	3.51E-02
RN-219	401.80	6.50	4.52E-01	4.52E-01	1.05E-01	2.06E-01
RA-223	323.87	3.88	6.45E-01	6.45E-01	-4.36E-01	2.95E-01
RA-224	240.98	3.95	6.17E-01	6.17E-01	-1.46E-01	2.87E-01
RA-225	40.00	31.00	1.60E-01	1.60E-01	-2.77E-03	7.60E-02
RA-226	186.21	3.28	6.88E-01	6.88E-01	6.66E-01	3.22E-01
TH-227	50.10	8.40	3.04E-01	2.12E-01	-5.23E-01	1.43E-01
	236.00	11.50	2.12E-01		-1.46E-02	9.86E-02
	256.20	6.30	3.15E-01		5.91E-03	1.43E-01
AC-228	338.32	11.40	2.07E-01	1.24E-01	-5.78E-02	9.37E-02

Analysis Report for 1506115-02

BLANK

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AC-228	911.07	27.70	1.24E-01	1.24E-01	3.60E-02	5.25E-02
	969.11	16.60	2.60E-01		9.15E-02	1.13E-01
TH-230	48.44	16.90	1.80E-01	1.80E-01	-2.95E-02	8.51E-02
	62.85	4.60	5.62E-01		3.58E-01	2.68E-01
	67.67	0.37	5.06E+00		-1.51E+00	2.38E+00
PA-231	283.67	1.60	1.58E+00	1.10E+00	1.12E+00	7.29E-01
	302.67	2.30	1.10E+00		-6.40E-02	5.06E-01
TH-231	25.64	14.70	1.68E+00	2.89E-01	2.10E-01	8.05E-01
	84.21	6.40	2.89E-01		-3.22E-02	1.36E-01
PA-233	311.98	38.60	6.60E-02	6.60E-02	-2.38E-03	3.02E-02
PA-234	131.20	20.40	7.68E-02	7.68E-02	-1.01E-02	3.56E-02
	733.99	8.80	2.44E-01		-4.66E-02	9.69E-02
	946.00	12.00	3.20E-01		-2.12E-02	1.37E-01
PA-234M	1001.03	0.92	3.49E+00	3.49E+00	0.00E+00	1.43E+00
TH-234	63.29	3.80	6.63E-01	6.63E-01	8.75E-01	3.16E-01
U-235	143.76	10.50	1.59E-01	1.59E-01	-5.82E-04	7.36E-02
	163.35	4.70	3.40E-01		1.28E-02	1.56E-01
	205.31	4.70	4.84E-01		2.22E-01	2.26E-01
NP-237	86.50	12.60	1.50E-01	1.50E-01	5.90E-02	7.07E-02
NP-239	106.10	22.70	6.93E-02	6.93E-02	4.92E-03	3.22E-02
	228.18	10.70	1.86E-01		-4.50E-02	8.51E-02
	277.60	14.10	1.70E-01		-4.36E-02	7.82E-02
AM-241	59.54	35.90	6.22E-02	6.22E-02	-4.30E-02	2.93E-02
AM-243	74.67	66.00	2.61E-02	2.61E-02	3.30E-03	1.22E-02
CM-243	209.75	3.29	6.72E-01	1.69E-01	-8.85E-02	3.13E-01
	228.14	10.60	1.84E-01		-4.47E-02	8.44E-02
	277.60	14.00	1.69E-01		-4.31E-02	7.74E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1506115-02

BLANK

No Data Review Comments Entered.

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***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3613

Channel								
1:	0	0	0	0	0	0	0	0
9:	6	128	103	94	65	35	38	42
17:	34	31	18	24	28	40	51	33
25:	40	29	40	39	23	30	35	32
33:	28	30	22	31	28	25	23	26
41:	28	37	28	24	27	26	47	19
49:	11	18	12	22	21	10	16	17
57:	11	14	15	27	22	16	36	47
65:	20	16	6	14	17	26	17	16
73:	11	14	20	18	10	11	12	14
81:	17	26	17	14	17	16	17	25
89:	20	15	15	26	68	29	10	14
97:	17	15	8	7	10	12	8	12
105:	10	14	8	16	15	10	19	8
113:	17	13	11	13	12	12	10	10
121:	4	13	8	7	10	13	12	7
129:	8	10	15	11	9	15	11	10
137:	10	13	11	17	10	9	11	15
145:	16	4	7	12	4	17	9	7
153:	9	7	15	8	7	14	15	9
161:	12	11	5	10	10	7	9	5
169:	9	10	9	12	14	8	8	6
177:	13	8	8	3	7	9	9	10
185:	13	23	19	10	5	5	4	6
193:	9	7	11	8	11	15	11	10
201:	3	10	5	10	10	12	8	11
209:	3	11	10	10	7	8	8	4
217:	6	5	8	6	8	9	10	8
225:	7	3	8	5	5	4	8	14
233:	7	9	4	4	5	17	15	11
241:	3	6	4	3	5	10	4	8
249:	7	5	7	8	2	11	5	4
257:	4	3	5	4	2	3	7	5
265:	9	8	3	6	4	7	7	7
273:	6	7	6	5	6	12	2	4
281:	8	7	9	8	4	7	5	1
289:	6	3	8	4	5	3	10	8
297:	12	4	5	3	7	6	7	9
305:	6	5	9	7	6	3	7	10
313:	3	6	6	4	5	4	10	11
321:	3	8	5	5	5	4	7	6
329:	7	6	7	6	8	4	3	5
337:	5	7	3	4	3	5	5	8
345:	4	5	8	10	1	7	6	14
353:	5	4	5	9	5	2	2	4
361:	1	3	5	1	2	1	7	4

369:	4	4	2	3	3	4	2	6

Sample Title: BLANK

Channel								
377:	6	5	1	5	7	2	1	3
385:	4	3	7	5	3	2	2	2
393:	4	4	11	2	4	4	6	8
401:	3	7	4	4	3	4	4	6
409:	1	3	2	5	1	2	4	5
417:	1	3	2	1	2	2	4	1
425:	0	6	4	1	1	1	5	5
433:	2	1	2	5	6	2	5	1
441:	6	2	5	5	2	1	2	4
449:	3	4	2	3	3	4	4	1
457:	3	5	3	1	2	6	2	2
465:	8	1	4	3	4	2	3	6
473:	9	2	2	3	5	3	4	7
481:	9	1	5	7	3	5	3	4
489:	4	4	2	4	3	1	4	4
497:	5	1	4	3	3	2	4	1
505:	4	4	5	4	8	14	26	15
513:	10	7	6	4	1	5	4	2
521:	4	2	0	6	1	3	2	1
529:	3	0	3	2	4	4	2	3
537:	1	1	3	2	1	3	3	2
545:	2	2	4	1	3	5	1	2
553:	3	2	5	1	2	2	5	3
561:	6	2	3	1	3	6	1	2
569:	4	3	1	2	2	1	4	5
577:	3	1	3	2	3	2	7	4
585:	0	3	1	5	5	1	0	3
593:	2	2	5	3	7	2	5	1
601:	6	1	6	3	3	0	2	1
609:	4	11	4	1	2	1	2	3
617:	4	2	4	2	2	1	3	1
625:	4	2	2	1	0	5	2	1
633:	4	4	2	3	2	2	0	1
641:	4	2	3	4	4	0	0	1
649:	2	0	2	5	0	4	2	2
657:	0	2	3	1	4	3	5	3
665:	5	1	2	1	0	2	1	3
673:	3	3	2	1	0	1	0	2
681:	0	1	1	0	1	0	3	2
689:	3	2	1	1	3	2	2	4
697:	1	2	5	5	2	2	1	3
705:	4	3	1	3	2	0	1	2
713:	2	5	3	1	0	3	0	4
721:	2	1	3	0	1	1	3	3
729:	3	5	1	1	0	0	2	0
737:	1	0	4	3	1	1	3	0
745:	3	2	0	4	3	4	1	3
753:	3	3	1	1	1	2	2	1
761:	4	4	5	0	1	2	1	2
769:	3	3	3	1	2	0	2	2
777:	0	2	4	4	0	3	3	0
785:	1	2	4	3	1	2	3	3
793:	2	3	2	0	1	1	2	2

801:	2	2	0	2	1	1	1	1

Sample Title: BLANK

Channel								
809:	1	3	1	2	4	1	2	1
817:	1	0	1	3	0	6	1	3
825:	2	0	0	1	2	1	0	2
833:	5	1	0	5	0	0	3	1
841:	1	1	3	2	1	0	3	5
849:	2	1	4	2	1	0	2	1
857:	0	1	0	1	0	1	0	3
865:	0	2	1	2	1	4	0	1
873:	4	2	1	2	2	2	1	1
881:	2	2	2	3	1	0	0	4
889:	1	3	2	3	1	2	0	1
897:	1	0	3	1	2	2	2	1
905:	3	2	1	2	4	0	3	0
913:	1	0	2	2	2	0	0	1
921:	0	2	1	1	2	0	0	4
929:	1	0	2	0	2	2	0	2
937:	4	0	2	1	1	2	3	2
945:	0	2	1	0	4	1	3	0
953:	0	0	1	1	1	1	2	0
961:	1	2	1	2	2	2	3	1
969:	2	4	3	0	1	0	0	3
977:	2	2	0	0	3	1	1	0
985:	1	1	2	1	1	2	1	4
993:	0	3	1	2	0	0	1	1
1001:	2	2	0	1	1	1	2	0
1009:	0	0	1	1	1	2	1	1
1017:	1	2	2	2	0	1	2	3
1025:	1	0	2	0	2	0	1	0
1033:	1	0	1	1	2	1	0	1
1041:	0	1	2	1	2	0	3	0
1049:	1	0	2	0	1	1	1	1
1057:	3	1	0	2	0	2	1	0
1065:	1	0	1	2	1	2	0	0
1073:	3	0	0	0	2	1	0	0
1081:	0	1	2	1	1	1	0	0
1089:	1	1	1	0	4	1	4	0
1097:	2	0	2	2	0	1	3	0
1105:	0	0	2	1	3	1	0	1
1113:	1	1	0	0	0	0	0	0
1121:	1	3	0	2	3	1	2	0
1129:	3	1	1	1	1	1	2	0
1137:	1	1	1	0	0	1	0	0
1145:	0	1	0	3	1	1	2	1
1153:	2	1	1	2	0	0	2	0
1161:	0	1	2	0	1	5	0	2
1169:	1	0	1	2	2	2	1	1
1177:	1	0	2	0	0	0	0	3
1185:	0	0	1	0	0	1	1	2
1193:	0	1	2	1	2	2	2	0
1201:	2	0	0	2	1	0	3	1
1209:	3	1	2	0	0	0	1	0
1217:	0	1	0	0	2	0	0	2
1225:	0	0	1	0	1	2	2	2

1233:	1	0	0	0	0	0	1	1

Sample Title: BLANK

Channel								
1241:	2	1	2	0	0	2	2	1
1249:	0	0	0	0	0	0	0	0
1257:	1	0	2	1	0	1	2	0
1265:	0	0	0	2	1	1	0	1
1273:	1	0	0	1	0	0	0	0
1281:	1	0	0	0	0	2	1	1
1289:	1	0	1	0	3	1	1	1
1297:	2	1	3	2	0	0	1	1
1305:	1	0	0	0	0	1	3	2
1313:	0	1	1	0	2	1	1	1
1321:	3	1	1	0	0	0	0	0
1329:	1	0	2	1	2	1	1	1
1337:	1	0	1	3	0	1	3	1
1345:	1	0	1	0	0	0	1	1
1353:	0	1	1	0	1	0	0	0
1361:	1	1	2	2	3	2	1	0
1369:	0	0	1	1	0	1	0	1
1377:	0	0	0	1	0	1	0	2
1385:	1	0	1	0	1	0	0	1
1393:	1	1	0	0	1	0	0	1
1401:	0	0	0	0	2	0	0	0
1409:	1	0	0	2	0	1	0	0
1417:	0	1	1	1	1	2	0	3
1425:	1	0	2	0	0	1	1	0
1433:	1	0	0	1	1	0	1	0
1441:	1	2	1	1	1	0	0	1
1449:	0	0	0	0	0	1	0	2
1457:	1	1	1	2	2	1	1	0
1465:	0	0	0	0	1	2	1	0
1473:	0	0	0	0	0	0	0	0
1481:	0	0	0	0	0	0	0	0
1489:	0	1	1	1	1	1	1	1
1497:	1	0	2	2	0	0	0	2
1505:	0	0	0	1	1	1	1	1
1513:	0	0	1	1	0	1	0	0
1521:	0	0	0	0	0	0	0	0
1529:	0	0	1	1	0	0	0	0
1537:	0	0	0	0	0	0	0	2
1545:	0	0	0	1	1	1	0	0
1553:	0	0	1	2	1	1	0	1
1561:	2	1	0	1	0	0	1	0
1569:	0	0	1	1	1	0	0	0
1577:	0	0	0	1	1	0	0	0
1585:	0	0	1	0	1	2	0	1
1593:	2	1	0	1	0	0	2	0
1601:	1	1	0	1	0	0	1	0
1609:	1	0	0	2	1	1	0	2
1617:	0	0	2	0	0	1	0	0
1625:	1	0	0	0	0	1	0	0
1633:	0	1	0	1	0	0	0	0
1641:	1	1	1	1	2	0	0	0
1649:	0	0	2	3	0	0	0	0
1657:	1	0	0	0	0	2	0	0

1665:	0	2	0	0	1	0	0	1

Sample Title: BLANK

Channel								
1673:	0	0	1	0	2	0	1	0
1681:	0	0	1	0	0	0	1	1
1689:	0	0	0	0	1	0	1	1
1697:	0	1	0	0	0	0	1	1
1705:	1	0	0	0	0	0	1	0
1713:	0	0	0	2	1	3	1	1
1721:	0	1	0	1	0	1	1	0
1729:	2	0	0	1	0	1	0	0
1737:	0	1	1	0	0	1	2	0
1745:	0	0	0	1	1	2	0	1
1753:	0	0	2	0	0	0	0	0
1761:	0	0	0	1	1	1	0	0
1769:	0	0	2	0	0	1	0	0
1777:	0	1	1	0	0	0	1	1
1785:	0	0	2	0	0	0	0	1
1793:	0	2	0	0	0	0	0	0
1801:	1	0	0	0	0	0	0	0
1809:	0	0	0	1	1	0	0	1
1817:	0	0	0	0	2	0	1	1
1825:	0	0	1	0	0	0	0	0
1833:	0	0	0	0	1	0	0	0
1841:	2	0	1	1	0	1	0	0
1849:	1	0	0	0	0	0	0	0
1857:	1	1	0	1	1	1	0	0
1865:	1	0	0	1	0	1	1	1
1873:	1	0	0	0	0	0	0	0
1881:	0	0	0	0	0	0	0	0
1889:	0	0	1	0	0	1	0	0
1897:	0	0	1	0	1	0	0	0
1905:	1	0	0	1	0	0	0	1
1913:	0	0	1	0	1	1	1	1
1921:	1	0	0	0	0	0	2	0
1929:	0	1	0	0	0	0	0	0
1937:	0	0	0	0	0	0	0	1
1945:	1	0	0	0	0	0	0	0
1953:	0	2	1	0	0	0	0	0
1961:	1	0	0	0	0	0	0	1
1969:	0	0	1	0	0	0	0	0
1977:	0	1	0	0	0	0	0	1
1985:	0	0	0	1	0	1	1	0
1993:	0	0	0	0	0	0	0	0
2001:	1	1	0	0	0	1	0	0
2009:	1	0	0	0	0	0	0	0
2017:	0	0	0	0	0	0	1	0
2025:	1	0	0	0	0	0	1	1
2033:	1	0	0	1	0	1	0	0
2041:	0	0	0	0	2	1	1	0
2049:	1	2	0	0	1	0	0	0
2057:	0	0	0	1	0	1	0	0
2065:	0	1	0	0	0	0	0	0
2073:	0	0	0	0	0	0	0	0
2081:	1	0	0	1	1	0	0	0
2089:	1	0	0	0	1	0	0	1

2097:	0	1	0	0	0	0	0	0

Sample Title: BLANK

Channel								
2105:	3	0	1	0	0	0	0	2
2113:	0	0	0	0	1	0	1	0
2121:	0	0	0	0	0	0	0	0
2129:	0	0	1	1	0	0	0	0
2137:	0	2	1	0	1	0	0	0
2145:	0	0	1	0	0	1	0	1
2153:	0	0	0	0	1	0	0	1
2161:	0	1	0	0	0	1	0	1
2169:	0	0	0	0	0	1	0	1
2177:	0	0	0	0	0	0	0	0
2185:	0	0	0	0	0	0	1	0
2193:	1	0	0	0	0	0	1	0
2201:	0	0	0	2	2	0	0	0
2209:	0	0	0	1	0	0	0	0
2217:	0	0	0	0	1	0	0	0
2225:	0	0	0	0	0	0	1	0
2233:	0	1	0	0	0	1	0	0
2241:	1	0	0	3	1	0	0	0
2249:	0	0	0	1	0	0	0	1
2257:	0	0	0	0	1	0	0	0
2265:	0	0	0	0	1	0	0	1
2273:	0	0	1	2	0	0	1	0
2281:	0	0	1	0	0	1	0	0
2289:	0	0	0	1	1	0	0	0
2297:	0	0	0	0	0	0	0	0
2305:	0	0	0	0	0	1	0	0
2313:	0	0	0	0	0	0	0	0
2321:	0	0	0	0	1	0	0	0
2329:	0	0	0	0	2	0	0	1
2337:	1	0	0	0	0	0	0	0
2345:	0	2	0	0	0	0	0	0
2353:	0	0	0	0	0	0	1	1
2361:	0	0	0	0	1	0	0	0
2369:	0	0	0	0	0	0	1	0
2377:	0	0	0	0	0	0	0	0
2385:	1	0	1	0	0	0	0	1
2393:	0	0	0	0	1	0	0	0
2401:	0	0	1	0	0	0	1	0
2409:	0	0	0	0	0	1	0	0
2417:	0	0	0	0	0	0	0	0
2425:	0	1	1	0	0	1	0	1
2433:	0	0	0	0	0	0	2	0
2441:	1	0	1	0	1	0	0	2
2449:	2	0	0	0	1	0	0	0
2457:	0	0	1	2	0	0	0	0
2465:	0	1	0	0	0	0	0	1
2473:	2	0	0	0	1	0	0	0
2481:	0	0	0	0	0	0	0	0
2489:	0	0	0	0	1	0	0	1
2497:	0	0	1	0	1	0	0	0
2505:	0	0	0	0	0	0	0	0
2513:	0	0	0	0	1	0	1	0
2521:	0	0	0	0	0	0	0	0

2529:	0	0	1	0	0	0	0	0

Sample Title: BLANK

Channel								
2537:	0	1	0	0	0	0	0	0
2545:	1	0	0	0	0	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	0	0	0	0	0	0	0
2569:	2	1	0	1	0	2	1	1
2577:	1	0	1	0	0	0	0	0
2585:	0	0	0	0	0	0	0	1
2593:	0	0	0	0	0	0	0	1
2601:	0	0	0	0	0	0	0	0
2609:	0	0	0	0	1	2	0	1
2617:	0	0	0	0	0	0	0	1
2625:	0	0	1	0	0	0	1	0
2633:	0	0	1	0	0	0	1	0
2641:	0	0	0	0	0	0	0	0
2649:	1	0	0	0	0	0	0	0
2657:	0	0	1	0	0	0	0	0
2665:	0	0	0	1	0	0	0	0
2673:	0	0	0	0	0	0	0	1
2681:	0	0	0	0	0	0	0	0
2689:	0	0	0	0	0	0	1	0
2697:	1	0	0	0	0	0	0	0
2705:	1	1	0	0	0	0	0	0
2713:	0	0	0	0	1	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	1	0	0	0	1	0	0	0
2745:	0	1	0	0	0	1	0	0
2753:	0	0	1	1	0	1	0	0
2761:	0	0	1	0	1	0	2	0
2769:	0	0	0	0	0	0	1	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	1	0	0	0	0
2793:	1	1	0	1	0	0	0	0
2801:	1	0	0	0	0	0	0	0
2809:	0	0	1	0	0	0	0	0
2817:	0	0	1	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	1	0	1	0	0	0
2857:	0	0	0	0	1	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	0	1	0	0
2881:	0	0	0	0	0	0	0	0
2889:	1	0	1	0	0	0	0	0
2897:	0	0	0	0	0	0	1	0
2905:	0	0	0	0	0	0	1	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	1	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	1	1	0	0	0

2961:	0	0	0	1	0	0	0	0

Sample Title: BLANK

Channel								
2969:	1	0	0	1	0	0	0	0
2977:	0	0	0	0	0	0	0	1
2985:	0	1	0	0	0	0	0	0
2993:	0	0	0	0	0	1	2	0
3001:	0	0	1	1	0	0	1	1
3009:	0	0	0	0	0	0	0	2
3017:	0	0	0	0	0	0	0	0
3025:	0	1	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	1	0	0	1	0
3049:	0	0	0	0	0	0	0	0
3057:	1	0	0	0	1	0	0	0
3065:	0	0	0	0	0	0	1	0
3073:	0	0	0	0	0	1	0	1
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	1
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	1	0	0	0	0
3121:	0	0	0	0	0	0	1	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	0	2	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	1	1	0
3177:	0	0	0	0	1	0	0	0
3185:	0	0	1	0	0	0	1	0
3193:	1	0	0	0	0	0	0	0
3201:	1	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	2	0	2	0	0	0	0	0
3225:	0	0	0	0	0	1	0	1
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	1	0	0	0	0	1
3257:	0	0	0	1	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	1	0	1	0	0
3281:	0	0	1	0	0	0	0	0
3289:	0	0	0	0	0	1	0	0
3297:	0	0	0	0	1	0	0	0
3305:	0	1	0	0	1	1	0	0
3313:	1	0	0	0	0	0	1	0
3321:	1	0	0	0	0	0	0	0
3329:	1	0	1	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	2	0	0	0	0	0	0	0
3353:	0	0	0	0	1	1	0	0
3361:	0	1	0	0	0	0	1	0
3369:	0	0	0	0	1	0	0	0
3377:	0	0	0	0	0	1	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	1	0	0	0	0

Sample Title: BLANK

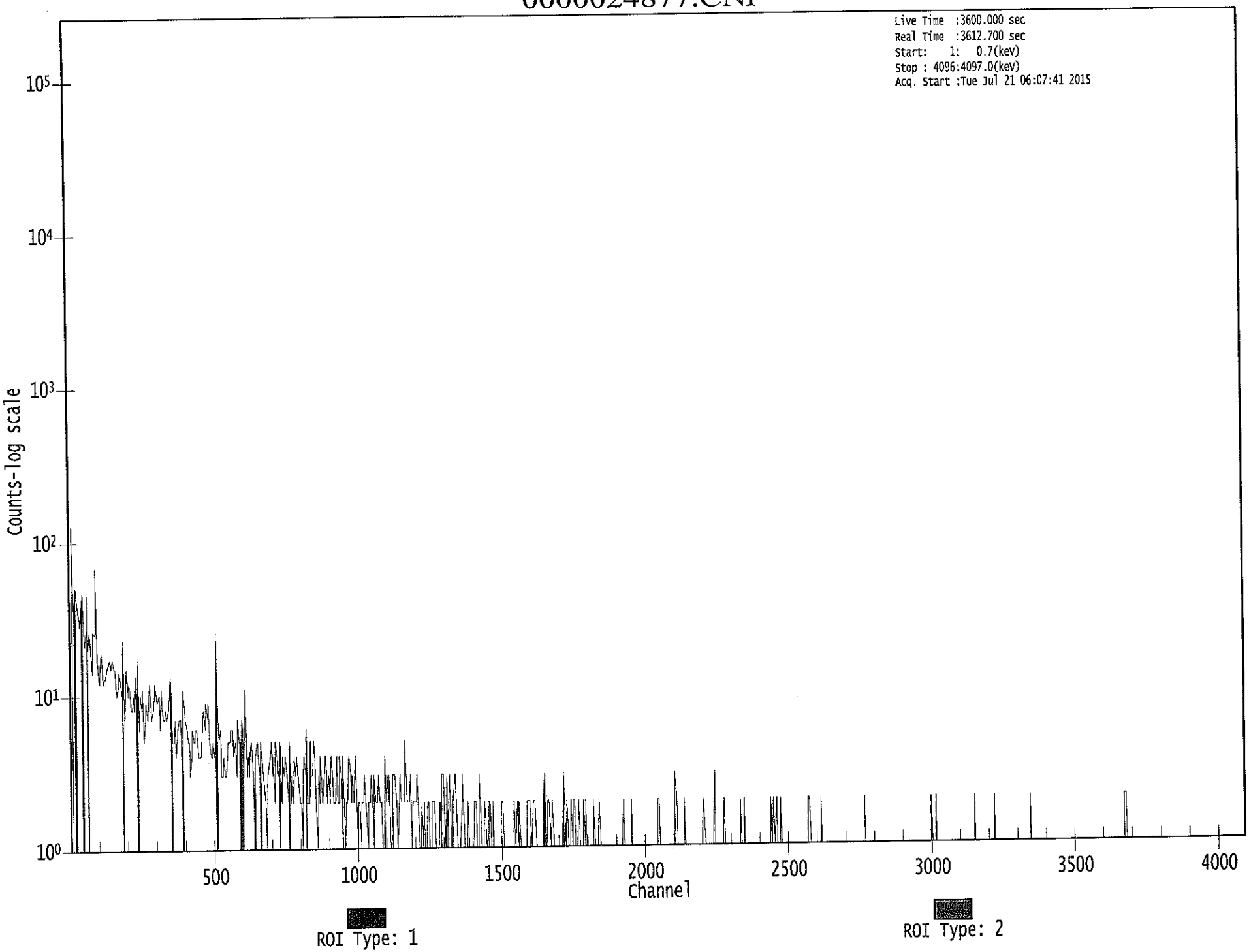
Channel								
3401:	0	0	0	0	0	0	0	1
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	1	1	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	1	0	0
3497:	0	0	0	1	0	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	1	0	0	0	0	0	0
3545:	1	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	1	0
3569:	1	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	1	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	1	0	0	0	0	0
3641:	1	0	0	1	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	1	0	0	0	0	0	0	0
3665:	0	0	0	1	0	0	0	0
3673:	2	0	0	0	0	0	2	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	1	1	0	0
3697:	0	0	0	0	1	0	1	1
3705:	0	0	0	0	1	0	0	1
3713:	0	0	1	0	0	0	0	0
3721:	0	0	0	0	0	1	0	0
3729:	0	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	1	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	1	0	1	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	1	0	0
3801:	0	0	0	1	0	0	0	0
3809:	0	0	0	0	0	0	1	0
3817:	0	0	0	1	0	0	1	0

3825:	0	0	0	1	0	0	0	0

Sample Title: BLANK

Channel								
3833:	1	0	0	0	0	0	0	0
3841:	0	1	0	0	0	0	0	0
3849:	1	0	0	0	0	0	0	0
3857:	1	1	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	1	0	1	0	0	0
3881:	0	0	1	0	0	0	0	0
3889:	0	0	1	0	0	0	0	0
3897:	0	0	0	1	0	0	0	0
3905:	1	0	0	0	0	0	0	0
3913:	0	0	0	0	0	1	0	0
3921:	0	0	1	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	1	0	0	1
3945:	0	0	0	0	0	0	0	0
3953:	0	1	0	0	0	0	0	0
3961:	0	0	0	0	0	0	1	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	1	0	0	0	0
4001:	0	0	1	0	0	0	0	0
4009:	0	0	0	0	1	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	1
4033:	0	0	0	0	1	0	0	0
4041:	0	0	0	0	0	1	0	0
4049:	0	0	0	0	1	0	0	1
4057:	0	0	0	0	1	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	1	0	0	0	0	0	0	0
4081:	0	1	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000024877.CNF



: 00221

Apex-Gamma

Analysis Report for 1506115-03
FEEBRIS1D-13.093-094

7/22

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506115-03
Sample Description	: FEEBRIS1D-13.093-094
Sample Type	: SOIL
Sample Size	: 6.162E+02 grams
Facility	: Countroom
Sample Taken On	: 6/12/2015 11:20:57AM
Acquisition Started	: 7/22/2015 6:17:09AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.6 seconds
Dead Time	: 0.04 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24955

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/22/15

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 7:17:16AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.77	47.12	0.0000	0.00
2	63.13	63.48	0.0000	0.00
3	67.93	68.28	0.0000	0.00
4	74.94	75.28	0.0000	0.00
5	77.40	77.74	0.0000	0.00
6	87.80	88.13	0.0000	0.00
7	92.77	93.11	0.0000	0.00
8	144.65	144.97	0.0000	0.00
9	186.12	186.42	0.0000	0.00
10	224.11	224.41	0.0000	0.00
11	238.56	238.85	0.0000	0.00
12	241.87	242.15	0.0000	0.00
13	270.19	270.47	0.0000	0.00
14	295.34	295.61	0.0000	0.00
15	338.65	338.90	0.0000	0.00
16	352.05	352.30	0.0000	0.00
17	441.11	441.33	0.0000	0.00
18	510.55	510.75	0.0000	0.00
19	583.64	583.81	0.0000	0.00
20	609.47	609.63	0.0000	0.00
21	658.04	658.18	0.0000	0.00
22	666.04	666.18	0.0000	0.00
23	681.44	681.58	0.0000	0.00
24	758.07	758.18	0.0000	0.00
25	768.68	768.78	0.0000	0.00
26	784.71	784.81	0.0000	0.00
27	787.71	787.81	0.0000	0.00
28	794.00	794.09	0.0000	0.00
29	838.96	839.04	0.0000	0.00
30	860.11	860.19	0.0000	0.00
31	911.40	911.46	0.0000	0.00
32	934.20	934.25	0.0000	0.00
33	970.27	970.31	0.0000	0.00
34	985.92	985.95	0.0000	0.00
35	1024.55	1024.57	0.0000	0.00
36	1064.31	1064.32	0.0000	0.00
37	1120.46	1120.44	0.0000	0.00
38	1127.76	1127.74	0.0000	0.00
39	1155.64	1155.60	0.0000	0.00
40	1234.21	1234.15	0.0000	0.00
41	1238.08	1238.02	0.0000	0.00
42	1241.88	1241.81	0.0000	0.00

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1280.88	1280.81	0.0000	0.00
44	1347.68	1347.58	0.0000	0.00
45	1377.33	1377.22	0.0000	0.00
46	1381.90	1381.78	0.0000	0.00
47	1385.12	1385.00	0.0000	0.00
48	1408.00	1407.88	0.0000	0.00
49	1460.82	1460.68	0.0000	0.00
50	1509.20	1509.04	0.0000	0.00
51	1576.88	1576.70	0.0000	0.00
52	1586.21	1586.02	0.0000	0.00
53	1596.38	1596.19	0.0000	0.00
54	1661.84	1661.63	0.0000	0.00
55	1725.47	1725.23	0.0000	0.00
56	1729.47	1729.23	0.0000	0.00
57	1764.50	1764.24	0.0000	0.00
58	1813.57	1813.29	0.0000	0.00
59	1819.36	1819.09	0.0000	0.00
60	1824.56	1824.28	0.0000	0.00
61	1847.64	1847.35	0.0000	0.00
62	1910.99	1910.68	0.0000	0.00
63	2010.08	2009.73	0.0000	0.00
64	2082.97	2082.60	0.0000	0.00
65	2203.86	2203.43	0.0000	0.00
66	2447.30	2446.79	0.0000	0.00
67	2614.44	2613.85	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 7:17:16AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.77	44 -	50	47.12	1.72E+02	90.65	1.38E+03	1.35
	2	63.13	60 -	66	63.48	3.37E+02	114.60	2.16E+03	1.34
M	3	67.93	67 -	81	68.28	6.18E+01	62.19	1.02E+03	1.59
m	4	74.94	67 -	81	75.28	4.87E+02	106.39	1.70E+03	1.60
m	5	77.40	67 -	81	77.74	8.59E+02	115.52	1.70E+03	1.61
M	6	87.80	83 -	97	88.13	2.61E+02	73.95	1.11E+03	1.48
m	7	92.77	83 -	97	93.11	4.93E+02	80.57	9.26E+02	1.49
	8	144.65	143 -	148	144.97	7.48E+01	78.50	1.17E+03	1.40
	9	186.12	183 -	189	186.42	4.28E+02	90.60	1.17E+03	1.86
	10	224.11	222 -	228	224.41	6.26E+01	64.55	7.15E+02	1.95
M	11	238.56	235 -	248	238.85	4.07E+02	65.03	5.89E+02	1.68
m	12	241.87	235 -	248	242.15	3.86E+02	65.86	5.55E+02	1.68
	13	270.19	267 -	273	270.47	7.70E+01	60.99	6.22E+02	3.22
	14	295.34	291 -	299	295.61	9.21E+02	96.60	8.69E+02	1.89
	15	338.65	334 -	343	338.90	7.73E+01	72.82	7.09E+02	1.77
	16	352.05	348 -	357	352.30	1.60E+03	102.18	5.69E+02	1.91
	17	441.11	438 -	444	441.33	3.63E+01	37.42	2.23E+02	2.87
	18	510.55	506 -	515	510.75	1.44E+02	51.45	2.98E+02	3.22
	19	583.64	578 -	589	583.81	1.44E+02	55.75	3.12E+02	1.97
	20	609.47	605 -	614	609.63	1.14E+03	84.12	3.57E+02	2.00
M	21	658.04	655 -	672	658.18	2.19E+01	25.10	1.17E+02	2.01
m	22	666.04	655 -	672	666.18	5.83E+01	27.09	9.56E+01	2.01
	23	681.44	680 -	684	681.58	1.65E+01	20.93	8.30E+01	1.19
	24	758.07	755 -	763	758.18	3.08E+01	31.74	1.38E+02	4.49
	25	768.68	763 -	774	768.78	1.17E+02	46.30	2.09E+02	2.16
M	26	784.71	781 -	790	784.81	3.39E+01	24.08	8.54E+01	2.09
m	27	787.71	781 -	790	787.81	1.94E+01	24.00	7.70E+01	2.09
	28	794.00	791 -	799	794.09	3.13E+01	30.31	1.23E+02	1.94
	29	838.96	835 -	843	839.04	4.31E+01	30.57	1.18E+02	3.22
	30	860.11	856 -	864	860.19	2.64E+01	32.19	1.41E+02	1.98
	31	911.40	907 -	915	911.46	6.11E+01	36.74	1.68E+02	1.97
	32	934.20	931 -	937	934.25	5.37E+01	27.48	9.87E+01	1.60
	33	970.27	966 -	976	970.31	5.44E+01	42.26	1.79E+02	2.27
	34	985.92	982 -	989	985.95	2.00E+01	25.61	9.60E+01	1.47
	35	1024.55	1010 -	1036	1024.57	8.91E+01	57.27	1.86E+02	22.46
	36	1064.31	1062 -	1067	1064.32	1.90E+01	19.39	6.00E+01	1.76
M	37	1120.46	1115 -	1130	1120.44	2.63E+02	37.38	7.10E+01	1.89
m	38	1127.76	1115 -	1130	1127.74	1.87E+01	18.79	3.92E+01	2.74
	39	1155.64	1151 -	1158	1155.60	2.77E+01	27.78	1.07E+02	2.38
M	40	1234.21	1231 -	1245	1234.15	1.72E+01	19.78	5.31E+01	3.73

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
m	41	1238.08	1231	1245	1238.02	9.09E+01	27.78	5.23E+01	2.59
m	42	1241.88	1231	1245	1241.81	2.03E+01	26.23	4.32E+01	2.81
	43	1280.88	1273	1288	1280.81	5.14E+01	39.40	1.29E+02	3.00
	44	1347.68	1343	1352	1347.58	3.58E+01	13.30	4.50E+00	6.90
M	45	1377.33	1371	1390	1377.22	5.77E+01	21.32	3.64E+01	2.38
m	46	1381.90	1371	1390	1381.78	1.30E+01	18.40	3.22E+01	2.38
m	47	1385.12	1371	1390	1385.00	1.80E+01	15.17	2.61E+01	2.17
	48	1408.00	1404	1411	1407.88	2.82E+01	24.82	8.37E+01	1.42
	49	1460.82	1454	1466	1460.68	2.95E+02	44.79	9.64E+01	2.24
	50	1509.20	1503	1517	1509.04	6.24E+01	33.33	9.33E+01	3.27
	51	1576.88	1574	1579	1576.70	1.10E+01	11.58	1.80E+01	2.86
	52	1586.21	1581	1590	1586.02	2.30E+01	17.38	3.00E+01	1.05
	53	1596.38	1591	1601	1596.19	1.66E+01	20.98	5.09E+01	8.40
	54	1661.84	1659	1664	1661.63	1.40E+01	10.77	1.20E+01	2.63
M	55	1725.47	1724	1733	1725.23	9.43E+00	4.24	1.54E-01	2.52
m	56	1729.47	1724	1733	1729.23	3.89E+01	14.98	6.19E+00	2.49
	57	1764.50	1759	1769	1764.24	2.15E+02	30.67	1.10E+01	2.51
M	58	1813.57	1812	1821	1813.29	8.20E+00	4.95	3.00E+00	3.74
m	59	1819.36	1812	1821	1819.09	1.01E+01	7.25	5.00E+00	2.94
	60	1824.56	1822	1826	1824.28	5.06E+00	7.40	7.89E+00	1.66
	61	1847.64	1843	1852	1847.35	2.98E+01	16.00	1.83E+01	2.00
	62	1910.99	1907	1913	1910.68	7.73E+00	8.28	6.55E+00	1.33
	63	2010.08	2006	2012	2009.73	8.67E+00	8.51	6.67E+00	1.95
	64	2082.97	2079	2085	2082.60	5.29E+00	6.34	3.43E+00	2.72
	65	2203.86	2199	2207	2203.43	5.77E+01	16.99	8.65E+00	2.17
	66	2447.30	2442	2451	2446.79	2.67E+01	11.87	4.66E+00	2.15
	67	2614.44	2609	2620	2613.85	5.40E+01	14.70	0.00E+00	2.60

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 7:17:16AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	46.77	44	50	1.72E+02	90.65	1.38E+03	7.13E+01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	2	63.13	60 -	66	3.37E+02	114.60	2.16E+03	8.92E+01
M	3	67.93	67 -	81	6.18E+01	62.19	1.02E+03	5.25E+01
m	4	74.94	67 -	81	4.87E+02	106.39	1.70E+03	6.77E+01
m	5	77.40	67 -	81	8.59E+02	115.52	1.70E+03	6.77E+01
M	6	87.80	83 -	97	2.61E+02	73.95	1.11E+03	5.48E+01
m	7	92.77	83 -	97	4.93E+02	80.57	9.26E+02	5.00E+01
	8	144.65	143 -	148	7.48E+01	78.50	1.17E+03	6.29E+01
	9	186.12	183 -	189	4.28E+02	90.60	1.17E+03	6.63E+01
	10	224.11	222 -	228	6.26E+01	64.55	7.15E+02	5.14E+01
M	11	238.56	235 -	248	4.07E+02	65.03	5.89E+02	3.99E+01
m	12	241.87	235 -	248	3.86E+02	65.86	5.55E+02	3.87E+01
	13	270.19	267 -	273	7.70E+01	60.99	6.22E+02	4.80E+01
	14	295.34	291 -	299	9.21E+02	96.60	8.69E+02	6.18E+01
	15	338.65	334 -	343	7.73E+01	72.82	7.09E+02	5.81E+01
	16	352.05	348 -	357	1.60E+03	102.18	5.69E+02	5.22E+01
	17	441.11	438 -	444	3.63E+01	37.42	2.23E+02	2.91E+01
	18	510.55	506 -	515	1.44E+02	51.45	2.98E+02	3.74E+01
	19	583.64	578 -	589	1.44E+02	55.75	3.12E+02	4.14E+01
	20	609.47	605 -	614	1.14E+03	84.12	3.57E+02	4.12E+01
M	21	658.04	655 -	672	2.19E+01	25.10	1.17E+02	1.78E+01
m	22	666.04	655 -	672	5.83E+01	27.09	9.56E+01	1.61E+01
	23	681.44	680 -	684	1.65E+01	20.93	8.30E+01	1.59E+01
	24	758.07	755 -	763	3.08E+01	31.74	1.38E+02	2.44E+01
	25	768.68	763 -	774	1.17E+02	46.30	2.09E+02	3.37E+01
M	26	784.71	781 -	790	3.39E+01	24.08	8.54E+01	1.52E+01
m	27	787.71	781 -	790	1.94E+01	24.00	7.70E+01	1.44E+01
	28	794.00	791 -	799	3.13E+01	30.31	1.23E+02	2.32E+01
	29	838.96	835 -	843	4.31E+01	30.57	1.18E+02	2.27E+01
	30	860.11	856 -	864	2.64E+01	32.19	1.41E+02	2.51E+01
	31	911.40	907 -	915	6.11E+01	36.74	1.68E+02	2.73E+01
	32	934.20	931 -	937	5.37E+01	27.48	9.87E+01	1.91E+01
	33	970.27	966 -	976	5.44E+01	42.26	1.79E+02	1.84E+01
	34	985.92	982 -	989	2.00E+01	25.61	9.60E+01	1.97E+01
	35	1024.55	1010 -	1036	8.91E+01	57.27	1.86E+02	1.23E+01
	36	1064.31	1062 -	1067	1.90E+01	19.39	6.00E+01	1.42E+01
M	37	1120.46	1115 -	1130	2.63E+02	37.38	7.10E+01	1.38E+01
m	38	1127.76	1115 -	1130	1.87E+01	18.79	3.92E+01	1.03E+01
	39	1155.64	1151 -	1158	2.77E+01	27.78	1.07E+02	2.11E+01
M	40	1234.21	1231 -	1245	1.72E+01	19.78	5.31E+01	1.20E+01
m	41	1238.08	1231 -	1245	9.09E+01	27.78	5.23E+01	1.19E+01
m	42	1241.88	1231 -	1245	2.03E+01	26.23	4.32E+01	1.08E+01
	43	1280.88	1273 -	1288	5.14E+01	39.40	1.29E+02	3.02E+01
	44	1347.68	1343 -	1352	3.58E+01	13.30	4.50E+00	4.79E+00
M	45	1377.33	1371 -	1390	5.77E+01	21.32	3.64E+01	9.92E+00
m	46	1381.90	1371 -	1390	1.30E+01	18.40	3.22E+01	9.33E+00
m	47	1385.12	1371 -	1390	1.80E+01	15.17	2.61E+01	8.39E+00
	48	1408.00	1404 -	1411	2.82E+01	24.82	8.37E+01	1.84E+01
	49	1460.82	1454 -	1466	2.95E+02	44.79	9.64E+01	2.36E+01
	50	1509.20	1503 -	1517	6.24E+01	33.33	9.33E+01	2.41E+01
	51	1576.88	1574 -	1579	1.10E+01	11.58	1.80E+01	7.80E+00
	52	1586.21	1581 -	1590	2.30E+01	17.38	3.00E+01	1.19E+01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	53	1596.38	1591 -	1601	1.66E+01	20.98	5.09E+01	1.59E+01
	54	1661.84	1659 -	1664	1.40E+01	10.77	1.20E+01	6.37E+00
M	55	1725.47	1724 -	1733	9.43E+00	4.24	1.54E-01	6.45E-01
m	56	1729.47	1724 -	1733	3.89E+01	14.98	6.19E+00	4.09E+00
	57	1764.50	1759 -	1769	2.15E+02	30.67	1.10E+01	7.47E+00
M	58	1813.57	1812 -	1821	8.20E+00	4.95	3.00E+00	2.85E+00
m	59	1819.36	1812 -	1821	1.01E+01	7.25	5.00E+00	3.68E+00
	60	1824.56	1822 -	1826	5.06E+00	7.40	7.89E+00	4.83E+00
	61	1847.64	1843 -	1852	2.98E+01	16.00	1.83E+01	9.61E+00
	62	1910.99	1907 -	1913	7.73E+00	8.28	6.55E+00	5.04E+00
	63	2010.08	2006 -	2012	8.67E+00	8.51	6.67E+00	5.06E+00
	64	2082.97	2079 -	2085	5.29E+00	6.34	3.43E+00	3.59E+00
	65	2203.86	2199 -	2207	5.77E+01	16.99	8.65E+00	6.25E+00
	66	2447.30	2442 -	2451	2.67E+01	11.87	4.66E+00	4.81E+00
	67	2614.44	2609 -	2620	5.40E+01	14.70	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 7:17:16AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.77	44 -	50	47.12	1.72E+02	90.65	1.38E+03	PB-210
	2	63.13	60 -	66	63.48	3.37E+02	114.60	2.16E+03	TH-234
									TH-230
M	3	67.93	67 -	81	68.28	6.18E+01	62.19	1.02E+03	TI-44
									TA-182
									TH-230
m	4	74.94	67 -	81	75.28	4.87E+02	106.39	1.70E+03	AM-243
m	5	77.40	67 -	81	77.74	8.59E+02	115.52	1.70E+03	TI-44
M	6	87.80	83 -	97	88.13	2.61E+02	73.95	1.11E+03	SN-126
									CD-109

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									LU-176
m	7	92.77	83 -	97	93.11	4.93E+02	80.57	9.26E+02	GA-67
	8	144.65	143 -	148	144.97	7.48E+01	78.50	1.17E+03	CE-141
									U-235
	9	186.12	183 -	189	186.42	4.28E+02	90.60	1.17E+03	RA-226
	10	224.11	222 -	228	224.41	6.26E+01	64.55	7.15E+02	.....
M	11	238.56	235 -	248	238.85	4.07E+02	65.03	5.89E+02	PB-212
m	12	241.87	235 -	248	242.15	3.86E+02	65.86	5.55E+02	RA-224
	13	270.19	267 -	273	270.47	7.70E+01	60.99	6.22E+02	.....
	14	295.34	291 -	299	295.61	9.21E+02	96.60	8.69E+02	PB-214
	15	338.65	334 -	343	338.90	7.73E+01	72.82	7.09E+02	AC-228
	16	352.05	348 -	357	352.30	1.60E+03	102.18	5.69E+02	PB-214
	17	441.11	438 -	444	441.33	3.63E+01	37.42	2.23E+02	.....
	18	510.55	506 -	515	510.75	1.44E+02	51.45	2.98E+02	.....
	19	583.64	578 -	589	583.81	1.44E+02	55.75	3.12E+02	TL-208
	20	609.47	605 -	614	609.63	1.14E+03	84.12	3.57E+02	BI-214
M	21	658.04	655 -	672	658.18	2.19E+01	25.10	1.17E+02	AG-110M
m	22	666.04	655 -	672	666.18	5.83E+01	27.09	9.56E+01	SB-126
	23	681.44	680 -	684	681.58	1.65E+01	20.93	8.30E+01	.....
	24	758.07	755 -	763	758.18	3.08E+01	31.74	1.38E+02	.....
	25	768.68	763 -	774	768.78	1.17E+02	46.30	2.09E+02	.....
M	26	784.71	781 -	790	784.81	3.39E+01	24.08	8.54E+01	SB-127
m	27	787.71	781 -	790	787.81	1.94E+01	24.00	7.70E+01	.....
	28	794.00	791 -	799	794.09	3.13E+01	30.31	1.23E+02	.....
	29	838.96	835 -	843	839.04	4.31E+01	30.57	1.18E+02	.....
	30	860.11	856 -	864	860.19	2.64E+01	32.19	1.41E+02	TL-208
	31	911.40	907 -	915	911.46	6.11E+01	36.74	1.68E+02	AC-228
									LU-172
	32	934.20	931 -	937	934.25	5.37E+01	27.48	9.87E+01	.....
	33	970.27	966 -	976	970.31	5.44E+01	42.26	1.79E+02	.....
	34	985.92	982 -	989	985.95	2.00E+01	25.61	9.60E+01	.....
	35	1024.55	1010 -	1036	1024.57	8.91E+01	57.27	1.86E+02	.....
	36	1064.31	1062 -	1067	1064.32	1.90E+01	19.39	6.00E+01	BI-207
M	37	1120.46	1115 -	1130	1120.44	2.63E+02	37.38	7.10E+01	SC-46
									BI-214
									TA-182
m	38	1127.76	1115 -	1130	1127.74	1.87E+01	18.79	3.92E+01	.....
	39	1155.64	1151 -	1158	1155.60	2.77E+01	27.78	1.07E+02	.....
M	40	1234.21	1231 -	1245	1234.15	1.72E+01	19.78	5.31E+01	.....
m	41	1238.08	1231 -	1245	1238.02	9.09E+01	27.78	5.23E+01	CO-56
m	42	1241.88	1231 -	1245	1241.81	2.03E+01	26.23	4.32E+01	.....
	43	1280.88	1273 -	1288	1280.81	5.14E+01	39.40	1.29E+02	.....
	44	1347.68	1343 -	1352	1347.58	3.58E+01	13.30	4.50E+00	.....
M	45	1377.33	1371 -	1390	1377.22	5.77E+01	21.32	3.64E+01	.....
m	46	1381.90	1371 -	1390	1381.78	1.30E+01	18.40	3.22E+01	.....
m	47	1385.12	1371 -	1390	1385.00	1.80E+01	15.17	2.61E+01	AG-110M
	48	1408.00	1404 -	1411	1407.88	2.82E+01	24.82	8.37E+01	EU-152
	49	1460.82	1454 -	1466	1460.68	2.95E+02	44.79	9.64E+01	K-40
	50	1509.20	1503 -	1517	1509.04	6.24E+01	33.33	9.33E+01	.....
	51	1576.88	1574 -	1579	1576.70	1.10E+01	11.58	1.80E+01	.....
	52	1586.21	1581 -	1590	1586.02	2.30E+01	17.38	3.00E+01	.....
	53	1596.38	1591 -	1601	1596.19	1.66E+01	20.98	5.09E+01	LA-140
	54	1661.84	1659 -	1664	1661.63	1.40E+01	10.77	1.20E+01	.....
M	55	1725.47	1724 -	1733	1725.23	9.43E+00	4.24	1.54E-01	.....

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
m	56	1729.47	1724 -	1733	1729.23	3.89E+01	14.98	6.19E+00	.....
	57	1764.50	1759 -	1769	1764.24	2.15E+02	30.67	1.10E+01	BI-214
M	58	1813.57	1812 -	1821	1813.29	8.20E+00	4.95	3.00E+00	.....
m	59	1819.36	1812 -	1821	1819.09	1.01E+01	7.25	5.00E+00	.....
	60	1824.56	1822 -	1826	1824.28	5.06E+00	7.40	7.89E+00	.....
	61	1847.64	1843 -	1852	1847.35	2.98E+01	16.00	1.83E+01	.....
	62	1910.99	1907 -	1913	1910.68	7.73E+00	8.28	6.55E+00	.....
	63	2010.08	2006 -	2012	2009.73	8.67E+00	8.51	6.67E+00	.....
	64	2082.97	2079 -	2085	2082.60	5.29E+00	6.34	3.43E+00	.....
	65	2203.86	2199 -	2207	2203.43	5.77E+01	16.99	8.65E+00	BI-214
	66	2447.30	2442 -	2451	2446.79	2.67E+01	11.87	4.66E+00	.....
	67	2614.44	2609 -	2620	2613.85	5.40E+01	14.70	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 7:17:16AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.77	1.72E+02	90.65	1.70E-02	1.78E-03
	2	63.13	3.37E+02	114.60	2.49E-02	1.90E-03
M	3	67.93	6.18E+01	62.19	2.62E-02	2.06E-03
m	4	74.94	4.87E+02	106.39	2.75E-02	2.30E-03
m	5	77.40	8.59E+02	115.52	2.78E-02	2.38E-03
M	6	87.80	2.61E+02	73.95	2.85E-02	2.73E-03
m	7	92.77	4.93E+02	80.57	2.86E-02	2.65E-03
	8	144.65	7.48E+01	78.50	2.55E-02	2.12E-03
	9	186.12	4.28E+02	90.60	2.24E-02	2.03E-03
	10	224.11	6.26E+01	64.55	2.00E-02	1.75E-03
M	11	238.56	4.07E+02	65.03	1.92E-02	1.64E-03
m	12	241.87	3.86E+02	65.86	1.91E-02	1.61E-03
	13	270.19	7.70E+01	60.99	1.77E-02	1.41E-03
	14	295.34	9.21E+02	96.60	1.67E-02	1.31E-03
	15	338.65	7.73E+01	72.82	1.52E-02	1.22E-03
	16	352.05	1.60E+03	102.18	1.48E-02	1.19E-03
	17	441.11	3.63E+01	37.42	1.25E-02	1.06E-03
	18	510.55	1.44E+02	51.45	1.12E-02	9.91E-04

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	19	583.64	1.44E+02	55.75	1.02E-02	9.15E-04
	20	609.47	1.14E+03	84.12	9.82E-03	8.88E-04
M	21	658.04	2.19E+01	25.10	9.26E-03	8.38E-04
m	22	666.04	5.83E+01	27.09	9.17E-03	8.30E-04
	23	681.44	1.65E+01	20.93	9.01E-03	8.16E-04
	24	758.07	3.08E+01	31.74	8.28E-03	7.48E-04
	25	768.68	1.17E+02	46.30	8.19E-03	7.38E-04
M	26	784.71	3.39E+01	24.08	8.05E-03	7.24E-04
m	27	787.71	1.94E+01	24.00	8.03E-03	7.21E-04
	28	794.00	3.13E+01	30.31	7.98E-03	7.16E-04
	29	838.96	4.31E+01	30.57	7.64E-03	6.75E-04
	30	860.11	2.64E+01	32.19	7.49E-03	6.56E-04
	31	911.40	6.11E+01	36.74	7.15E-03	6.15E-04
	32	934.20	5.37E+01	27.48	7.01E-03	6.04E-04
	33	970.27	5.44E+01	42.26	6.80E-03	5.85E-04
	34	985.92	2.00E+01	25.61	6.71E-03	5.77E-04
	35	1024.55	8.91E+01	57.27	6.51E-03	5.56E-04
	36	1064.31	1.90E+01	19.39	6.32E-03	5.36E-04
M	37	1120.46	2.63E+02	37.38	6.07E-03	5.07E-04
m	38	1127.76	1.87E+01	18.79	6.03E-03	5.03E-04
	39	1155.64	2.77E+01	27.78	5.92E-03	4.88E-04
M	40	1234.21	1.72E+01	19.78	5.63E-03	4.68E-04
m	41	1238.08	9.09E+01	27.78	5.61E-03	4.68E-04
m	42	1241.88	2.03E+01	26.23	5.60E-03	4.67E-04
	43	1280.88	5.14E+01	39.40	5.47E-03	4.60E-04
	44	1347.68	3.58E+01	13.30	5.27E-03	4.47E-04
M	45	1377.33	5.77E+01	21.32	5.18E-03	4.40E-04
m	46	1381.90	1.30E+01	18.40	5.17E-03	4.39E-04
m	47	1385.12	1.80E+01	15.17	5.16E-03	4.38E-04
	48	1408.00	2.82E+01	24.82	5.10E-03	4.32E-04
	49	1460.82	2.95E+02	44.79	4.97E-03	4.19E-04
	50	1509.20	6.24E+01	33.33	4.86E-03	4.07E-04
	51	1576.88	1.10E+01	11.58	4.72E-03	3.90E-04
	52	1586.21	2.30E+01	17.38	4.70E-03	3.88E-04
	53	1596.38	1.66E+01	20.98	4.68E-03	3.85E-04
	54	1661.84	1.40E+01	10.77	4.56E-03	3.69E-04
M	55	1725.47	9.43E+00	4.24	4.45E-03	3.53E-04
m	56	1729.47	3.89E+01	14.98	4.45E-03	3.52E-04
	57	1764.50	2.15E+02	30.67	4.40E-03	3.44E-04
M	58	1813.57	8.20E+00	4.95	4.33E-03	3.31E-04
m	59	1819.36	1.01E+01	7.25	4.32E-03	3.30E-04
	60	1824.56	5.06E+00	7.40	4.31E-03	3.29E-04
	61	1847.64	2.98E+01	16.00	4.28E-03	3.26E-04
	62	1910.99	7.73E+00	8.28	4.21E-03	3.26E-04
	63	2010.08	8.67E+00	8.51	4.10E-03	3.26E-04
	64	2082.97	5.29E+00	6.34	4.04E-03	3.26E-04
	65	2203.86	5.77E+01	16.99	3.95E-03	3.26E-04
	66	2447.30	2.67E+01	11.87	3.83E-03	3.26E-04
	67	2614.44	5.40E+01	14.70	3.79E-03	3.26E-04

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 7:17:16AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.77	1.72E+02	90.65	4.67E+01	7.87E+00	1.26E+02	9.10E+01
	2	63.13	3.37E+02	114.60	1.06E+02	2.53E+01	2.31E+02	1.17E+02
M	3	67.93	6.18E+01	62.19			6.18E+01	6.22E+01
m	4	74.94	4.87E+02	106.39			4.87E+02	1.06E+02
m	5	77.40	8.59E+02	115.52	1.37E+01	4.21E+00	8.45E+02	1.16E+02
M	6	87.80	2.61E+02	73.95			2.61E+02	7.39E+01
m	7	92.77	4.93E+02	80.57	1.40E+02	3.42E+01	3.53E+02	8.75E+01
	8	144.65	7.48E+01	78.50	8.50E+00	7.50E+00	6.63E+01	7.89E+01
	9	186.12	4.28E+02	90.60	6.17E+01	7.27E+00	3.66E+02	9.09E+01
	10	224.11	6.26E+01	64.55			6.26E+01	6.46E+01
M	11	238.56	4.07E+02	65.03	1.90E+01	5.64E+00	3.88E+02	6.53E+01
m	12	241.87	3.86E+02	65.86			3.86E+02	6.59E+01
	13	270.19	7.70E+01	60.99			7.70E+01	6.10E+01
	14	295.34	9.21E+02	96.60	3.06E+00	4.82E+00	9.18E+02	9.67E+01
	15	338.65	7.73E+01	72.82			7.73E+01	7.28E+01
	16	352.05	1.60E+03	102.18	1.06E+01	4.49E+00	1.59E+03	1.02E+02
	17	441.11	3.63E+01	37.42			3.63E+01	3.74E+01
	18	510.55	1.44E+02	51.45	8.80E+01	5.43E+00	5.62E+01	5.17E+01
	19	583.64	1.44E+02	55.75	3.96E+00	4.13E+00	1.40E+02	5.59E+01
	20	609.47	1.14E+03	84.12	8.00E+00	4.15E+00	1.13E+03	8.42E+01
M	21	658.04	2.19E+01	25.10			2.19E+01	2.51E+01
m	22	666.04	5.83E+01	27.09			5.83E+01	2.71E+01
	23	681.44	1.65E+01	20.93			1.65E+01	2.09E+01
	24	758.07	3.08E+01	31.74			3.08E+01	3.17E+01
	25	768.68	1.17E+02	46.30			1.17E+02	4.63E+01
M	26	784.71	3.39E+01	24.08			3.39E+01	2.41E+01
m	27	787.71	1.94E+01	24.00			1.94E+01	2.40E+01
	28	794.00	3.13E+01	30.31			3.13E+01	3.03E+01
	29	838.96	4.31E+01	30.57			4.31E+01	3.06E+01
	30	860.11	2.64E+01	32.19			2.64E+01	3.22E+01
	31	911.40	6.11E+01	36.74	3.29E+00	3.12E+00	5.78E+01	3.69E+01
	32	934.20	5.37E+01	27.48			5.37E+01	2.75E+01
	33	970.27	5.44E+01	42.26			5.44E+01	4.23E+01
	34	985.92	2.00E+01	25.61			2.00E+01	2.56E+01
	35	1024.55	8.91E+01	57.27			8.91E+01	5.73E+01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	36	1064.31	1.90E+01	19.39			1.90E+01	1.94E+01
M	37	1120.46	2.63E+02	37.38			2.63E+02	3.74E+01
m	38	1127.76	1.87E+01	18.79			1.87E+01	1.88E+01
	39	1155.64	2.77E+01	27.78			2.77E+01	2.78E+01
M	40	1234.21	1.72E+01	19.78			1.72E+01	1.98E+01
m	41	1238.08	9.09E+01	27.78			9.09E+01	2.78E+01
m	42	1241.88	2.03E+01	26.23			2.03E+01	2.62E+01
	43	1280.88	5.14E+01	39.40			5.14E+01	3.94E+01
	44	1347.68	3.58E+01	13.30			3.58E+01	1.33E+01
M	45	1377.33	5.77E+01	21.32			5.77E+01	2.13E+01
m	46	1381.90	1.30E+01	18.40			1.30E+01	1.84E+01
m	47	1385.12	1.80E+01	15.17			1.80E+01	1.52E+01
	48	1408.00	2.82E+01	24.82			2.82E+01	2.48E+01
	49	1460.82	2.95E+02	44.79	5.51E+00	2.16E+00	2.89E+02	4.48E+01
	50	1509.20	6.24E+01	33.33			6.24E+01	3.33E+01
	51	1576.88	1.10E+01	11.58			1.10E+01	1.16E+01
	52	1586.21	2.30E+01	17.38			2.30E+01	1.74E+01
	53	1596.38	1.66E+01	20.98			1.66E+01	2.10E+01
	54	1661.84	1.40E+01	10.77			1.40E+01	1.08E+01
M	55	1725.47	9.43E+00	4.24			9.43E+00	4.24E+00
m	56	1729.47	3.89E+01	14.98			3.89E+01	1.50E+01
	57	1764.50	2.15E+02	30.67	1.06E+00	1.86E+00	2.13E+02	3.07E+01
M	58	1813.57	8.20E+00	4.95			8.20E+00	4.95E+00
m	59	1819.36	1.01E+01	7.25			1.01E+01	7.25E+00
	60	1824.56	5.06E+00	7.40			5.06E+00	7.40E+00
	61	1847.64	2.98E+01	16.00			2.98E+01	1.60E+01
	62	1910.99	7.73E+00	8.28			7.73E+00	8.28E+00
	63	2010.08	8.67E+00	8.51			8.67E+00	8.51E+00
	64	2082.97	5.29E+00	6.34			5.29E+00	6.34E+00
	65	2203.86	5.77E+01	16.99			5.77E+01	1.70E+01
	66	2447.30	2.67E+01	11.87			2.67E+01	1.19E+01
	67	2614.44	5.40E+01	14.70	3.94E+00	1.34E+00	5.01E+01	1.48E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 7:17:16AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.77	1.72E+02	90.65	4.67E+01	7.87E+00	1.26E+02	9.10E+01
	2	63.13	3.37E+02	114.60	1.06E+02	2.53E+01	2.31E+02	1.17E+02
M	3	67.93	6.18E+01	62.19			6.18E+01	6.22E+01
m	4	74.94	4.87E+02	106.39			4.87E+02	1.06E+02
m	5	77.40	8.59E+02	115.52	1.37E+01	4.21E+00	8.45E+02	1.16E+02
M	6	87.80	2.61E+02	73.95			2.61E+02	7.39E+01
m	7	92.77	4.93E+02	80.57	1.40E+02	3.42E+01	3.53E+02	8.75E+01
	8	144.65	7.48E+01	78.50	8.50E+00	7.50E+00	6.63E+01	7.89E+01
	9	186.12	4.28E+02	90.60	6.17E+01	7.27E+00	3.66E+02	9.09E+01
	10	224.11	6.26E+01	64.55			6.26E+01	6.46E+01
M	11	238.56	4.07E+02	65.03	1.90E+01	5.64E+00	3.88E+02	6.53E+01
m	12	241.87	3.86E+02	65.86			3.86E+02	6.59E+01
	13	270.19	7.70E+01	60.99			7.70E+01	6.10E+01
	14	295.34	9.21E+02	96.60	3.06E+00	4.82E+00	9.18E+02	9.67E+01
	15	338.65	7.73E+01	72.82			7.73E+01	7.28E+01
	16	352.05	1.60E+03	102.18	1.06E+01	4.49E+00	1.59E+03	1.02E+02
	17	441.11	3.63E+01	37.42			3.63E+01	3.74E+01
	18	510.55	1.44E+02	51.45	8.80E+01	5.43E+00	5.62E+01	5.17E+01
	19	583.64	1.44E+02	55.75	3.96E+00	4.13E+00	1.40E+02	5.59E+01
	20	609.47	1.14E+03	84.12	8.00E+00	4.15E+00	1.13E+03	8.42E+01
M	21	658.04	2.19E+01	25.10			2.19E+01	2.51E+01
m	22	666.04	5.83E+01	27.09			5.83E+01	2.71E+01
	23	681.44	1.65E+01	20.93			1.65E+01	2.09E+01
	24	758.07	3.08E+01	31.74			3.08E+01	3.17E+01
	25	768.68	1.17E+02	46.30			1.17E+02	4.63E+01
M	26	784.71	3.39E+01	24.08			3.39E+01	2.41E+01
m	27	787.71	1.94E+01	24.00			1.94E+01	2.40E+01
	28	794.00	3.13E+01	30.31			3.13E+01	3.03E+01
	29	838.96	4.31E+01	30.57			4.31E+01	3.06E+01
	30	860.11	2.64E+01	32.19			2.64E+01	3.22E+01
	31	911.40	6.11E+01	36.74	3.29E+00	3.12E+00	5.78E+01	3.69E+01
	32	934.20	5.37E+01	27.48			5.37E+01	2.75E+01
	33	970.27	5.44E+01	42.26			5.44E+01	4.23E+01
	34	985.92	2.00E+01	25.61			2.00E+01	2.56E+01
	35	1024.55	8.91E+01	57.27			8.91E+01	5.73E+01
	36	1064.31	1.90E+01	19.39			1.90E+01	1.94E+01
M	37	1120.46	2.63E+02	37.38			2.63E+02	3.74E+01
m	38	1127.76	1.87E+01	18.79			1.87E+01	1.88E+01
	39	1155.64	2.77E+01	27.78			2.77E+01	2.78E+01
M	40	1234.21	1.72E+01	19.78			1.72E+01	1.98E+01
m	41	1238.08	9.09E+01	27.78			9.09E+01	2.78E+01
m	42	1241.88	2.03E+01	26.23			2.03E+01	2.62E+01
	43	1280.88	5.14E+01	39.40			5.14E+01	3.94E+01
	44	1347.68	3.58E+01	13.30			3.58E+01	1.33E+01
M	45	1377.33	5.77E+01	21.32			5.77E+01	2.13E+01
m	46	1381.90	1.30E+01	18.40			1.30E+01	1.84E+01
m	47	1385.12	1.80E+01	15.17			1.80E+01	1.52E+01
	48	1408.00	2.82E+01	24.82			2.82E+01	2.48E+01
	49	1460.82	2.95E+02	44.79	5.51E+00	2.16E+00	2.89E+02	4.48E+01
	50	1509.20	6.24E+01	33.33			6.24E+01	3.33E+01
	51	1576.88	1.10E+01	11.58			1.10E+01	1.16E+01
	52	1586.21	2.30E+01	17.38			2.30E+01	1.74E+01
	53	1596.38	1.66E+01	20.98			1.66E+01	2.10E+01
	54	1661.84	1.40E+01	10.77			1.40E+01	1.08E+01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	55	1725.47	9.43E+00	4.24			9.43E+00	4.24E+00
m	56	1729.47	3.89E+01	14.98			3.89E+01	1.50E+01
	57	1764.50	2.15E+02	30.67	1.06E+00	1.86E+00	2.13E+02	3.07E+01
M	58	1813.57	8.20E+00	4.95			8.20E+00	4.95E+00
m	59	1819.36	1.01E+01	7.25			1.01E+01	7.25E+00
	60	1824.56	5.06E+00	7.40			5.06E+00	7.40E+00
	61	1847.64	2.98E+01	16.00			2.98E+01	1.60E+01
	62	1910.99	7.73E+00	8.28			7.73E+00	8.28E+00
	63	2010.08	8.67E+00	8.51			8.67E+00	8.51E+00
	64	2082.97	5.29E+00	6.34			5.29E+00	6.34E+00
	65	2203.86	5.77E+01	16.99			5.77E+01	1.70E+01
	66	2447.30	2.67E+01	11.87			2.67E+01	1.19E+01
	67	2614.44	5.40E+01	14.70	3.94E+00	1.34E+00	5.01E+01	1.48E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.000	1460.81	*	10.67	6.64E+00	1.18E+00
TI-44	0.931	67.88	*	94.40	3.05E-02	3.08E-02
		78.34	*	96.00	3.86E-01	6.24E-02
CD-109	0.991	88.03	*	3.72	3.19E+00	9.71E-01
SN-126	0.992	87.57	*	37.00	3.02E-01	9.02E-02
CE-141	0.898	145.44	*	48.40	1.53E-01	1.87E-01
TL-208	0.978	583.14	*	30.22	5.56E-01	2.27E-01
		860.37	*	4.48	9.58E-01	1.17E+00
		2614.66	*	35.85	4.48E-01	1.38E-01
PB-210	0.988	46.50	*	4.25	2.13E+00	1.56E+00
PB-212	0.893	238.63	*	44.60	5.52E-01	1.04E-01
		300.09		3.41		
BI-214	0.996	609.31	*	46.30	3.03E+00	3.55E-01
		1120.29	*	15.10	3.50E+00	5.77E-01
		1764.49	*	15.80	3.74E+00	6.13E-01
		2204.22	*	4.98	3.57E+00	1.09E+00
PB-214	0.997	295.21	*	19.19	3.50E+00	4.59E-01
		351.92	*	37.19	3.53E+00	3.65E-01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
RA-224	0.882	240.98	*	3.95	6.25E+00	1.19E+00
RA-226	0.999	186.21	*	3.28	6.08E+00	1.12E+01
AC-228	0.559	338.32	*	11.40	5.44E-01	5.15E-01
		911.07	*	27.70	3.56E-01	2.29E-01
		969.11		16.60		
TH-234	0.996	63.29	*	3.80	2.97E+00	1.53E+00
AM-243	0.989	74.67	*	66.00	3.27E-01	7.65E-02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 7:17:16AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	7	92.77	9.79667E-02	12.41	Sum	
	10	224.11	1.73935E-02	51.54		
	13	270.19	2.13903E-02	39.60		
	17	441.11	1.00863E-02	51.53		
	18	510.55	1.55997E-02	46.06		
M	21	658.04	6.08479E-03	57.29	Sum	
m	22	666.04	1.61926E-02	23.24	Tol.	SB-126
	23	681.44	4.58094E-03	63.47		
	24	758.07	8.56944E-03	51.44		
	25	768.68	3.24013E-02	19.85		
M	26	784.71	9.41459E-03	35.53	Tol.	SB-127
m	27	787.71	5.39122E-03	61.83		
	28	794.00	8.68280E-03	48.48		
	29	838.96	1.19690E-02	35.47		
	32	934.20	1.49043E-02	25.61	Sum	
	33	970.27	1.51119E-02	38.84		
	34	985.92	5.55556E-03	64.03	Sum	
	35	1024.55	2.47634E-02	32.12		
	36	1064.31	5.27778E-03	51.03	Tol.	BI-207
m	38	1127.76	5.19606E-03	50.22		
	39	1155.64	7.68519E-03	50.21	Sum	
M	40	1234.21	4.77853E-03	57.49		

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	41	1238.08	2.52560E-02	15.28		
m	42	1241.88	5.64813E-03	64.50		
	43	1280.88	1.42888E-02	38.29		
	44	1347.68	9.93056E-03	18.61		
M	45	1377.33	1.60139E-02	18.49		
m	46	1381.90	3.60411E-03	70.90		
m	47	1385.12	4.98645E-03	42.24	Tol.	AG-110M
	48	1408.00	7.82341E-03	44.06		
	50	1509.20	1.73229E-02	26.72		
	51	1576.88	3.05556E-03	52.62		
	52	1586.21	6.38889E-03	37.78		
	53	1596.38	4.60317E-03	63.31	Tol.	LA-140
	54	1661.84	3.88889E-03	38.47		
M	55	1725.47	2.61966E-03	22.49		
m	56	1729.47	1.07937E-02	19.28	Sum	
M	58	1813.57	2.27713E-03	30.19	Sum	
m	59	1819.36	2.80854E-03	35.83		
	60	1824.56	1.40432E-03	73.18		
	61	1847.64	8.29060E-03	26.80		
	62	1910.99	2.14646E-03	53.55		
	63	2010.08	2.40741E-03	49.12		
	64	2082.97	1.46825E-03	60.01		
	66	2447.30	7.40900E-03	22.26		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.00	1460.81	*	10.67	6.64E+00	1.18E+00
TI-44	0.93	67.88	*	94.40	3.05E-02	3.08E-02
		78.34	*	96.00	3.86E-01	6.24E-02
CD-109	0.99	88.03	*	3.72	3.19E+00	9.71E-01
SN-126	0.99	87.57	*	37.00	3.02E-01	9.02E-02

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CE-141	0.89	145.44	*	48.40	1.53E-01	1.87E-01
TL-208	0.97	583.14	*	30.22	5.56E-01	2.27E-01
		860.37	*	4.48	9.58E-01	1.17E+00
		2614.66	*	35.85	4.48E-01	1.38E-01
PB-210	0.98	46.50	*	4.25	2.13E+00	1.56E+00
PB-212	0.89	238.63	*	44.60	5.52E-01	1.04E-01
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	3.03E+00	3.55E-01
		1120.29	*	15.10	3.50E+00	5.77E-01
		1764.49	*	15.80	3.74E+00	6.13E-01
		2204.22	*	4.98	3.57E+00	1.09E+00
PB-214	0.99	295.21	*	19.19	3.50E+00	4.59E-01
		351.92	*	37.19	3.53E+00	3.65E-01
RA-224	0.88	240.98	*	3.95	6.25E+00	1.19E+00
RA-226	0.99	186.21	*	3.28	6.08E+00	1.12E+01
AC-228	0.55	338.32	*	11.40	5.44E-01	5.15E-01
		911.07	*	27.70	3.56E-01	2.29E-01
		969.11		16.60		
TH-234	0.99	63.29	*	3.80	2.97E+00	1.53E+00
AM-243	0.98	74.67	*	66.00	3.27E-01	7.65E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	1.000	6.64E+00	1.18E+00	
	TI-44	0.931	1.00E-01	2.76E-02	
?	CD-109	0.991	3.19E+00	9.71E-01	
?	SN-126	0.992	3.02E-01	9.02E-02	
	CE-141	0.898	1.53E-01	1.87E-01	
X	TA-182	0.479			
	TL-208	0.978	4.82E-01	1.17E-01	

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
PB-210	0.988	2.13E+00	1.56E+00	
PB-212	0.893	5.52E-01	1.04E-01	
BI-214	0.996	3.29E+00	2.63E-01	
PB-214	0.997	3.52E+00	2.85E-01	
RA-224	0.882	6.25E+00	1.19E+00	
RA-226	0.999	6.08E+00	1.12E+01	
AC-228	0.559	3.87E-01	2.09E-01	
TH-234	0.996	2.97E+00	1.53E+00	
AM-243	0.989	3.27E-01	7.65E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506115-03

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 7:17:16AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	7	92.77	9.79667E-02	12.41	Sum	
	10	224.11	1.73935E-02	51.54		
	13	270.19	2.13903E-02	39.60		
	17	441.11	1.00863E-02	51.53		
	18	510.55	1.55997E-02	46.06		
M	21	658.04	6.08479E-03	57.29	Sum	
m	22	666.04	1.61926E-02	23.24	Tol.	SB-126
	23	681.44	4.58094E-03	63.47		
	24	758.07	8.56944E-03	51.44		
	25	768.68	3.24013E-02	19.85		
M	26	784.71	9.41459E-03	35.53	Tol.	SB-127
m	27	787.71	5.39122E-03	61.83		
	28	794.00	8.68280E-03	48.48		
	29	838.96	1.19690E-02	35.47		
	32	934.20	1.49043E-02	25.61	Sum	
	33	970.27	1.51119E-02	38.84		
	34	985.92	5.55556E-03	64.03	Sum	
	35	1024.55	2.47634E-02	32.12		
	36	1064.31	5.27778E-03	51.03	Tol.	BI-207
m	38	1127.76	5.19606E-03	50.22		
	39	1155.64	7.68519E-03	50.21	Sum	
M	40	1234.21	4.77853E-03	57.49		
m	41	1238.08	2.52560E-02	15.28		
m	42	1241.88	5.64813E-03	64.50		
	43	1280.88	1.42888E-02	38.29		
	44	1347.68	9.93056E-03	18.61		
M	45	1377.33	1.60139E-02	18.49		
m	46	1381.90	3.60411E-03	70.90		
m	47	1385.12	4.98645E-03	42.24	Tol.	AG-110M
	48	1408.00	7.82341E-03	44.06		
	50	1509.20	1.73229E-02	26.72		
	51	1576.88	3.05556E-03	52.62		
	52	1586.21	6.38889E-03	37.78		
	53	1596.38	4.60317E-03	63.31	Tol.	LA-140
	54	1661.84	3.88889E-03	38.47		

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	55	1725.47	2.61966E-03	22.49		
m	56	1729.47	1.07937E-02	19.28	Sum	
M	58	1813.57	2.27713E-03	30.19	Sum	
m	59	1819.36	2.80854E-03	35.83		
	60	1824.56	1.40432E-03	73.18		
	61	1847.64	8.29060E-03	26.80		
	62	1910.99	2.14646E-03	53.55		
	63	2010.08	2.40741E-03	49.12		
	64	2082.97	1.46825E-03	60.01		
	66	2447.30	7.40900E-03	22.26		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-5.09E-01	8.93E-01	8.93E-01
+	NA-22	1274.54		99.94	-7.43E-03	7.51E-02	7.51E-02
+	NA-24	1368.53		99.99	-1.95E+17	1.30E+17	8.57E+17
		2754.09		99.86	0.00E+00		1.30E+17
+	AL-26	1808.65		99.76	-5.35E-03	4.91E-02	4.91E-02
+	K-40	1460.81	*	10.67	6.64E+00	1.17E+00	1.17E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88	*	94.40	3.05E-02	1.55E-01	1.64E-01
		78.34	*	96.00	3.86E-01		1.55E-01
+	SC-46	889.25		99.98	-3.46E-02	9.14E-02	9.14E-02
		1120.51		99.99	7.07E-01		2.31E-01
+	V-48	983.52		99.98	1.02E-01	3.52E-01	3.92E-01
		1312.10		97.50	-1.38E-02		3.52E-01
+	CR-51	320.08		9.83	-6.96E-01	1.34E+00	1.34E+00
+	MN-54	834.83		99.97	-2.53E-03	6.88E-02	6.88E-02
+	CO-56	846.75		99.96	3.92E-02	9.31E-02	9.31E-02
		1037.75		14.03	-1.29E-01		5.39E-01
		1238.25		67.00	3.43E-01		2.55E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CO-56	1771.40		15.51	-1.07E-01	9.31E-02	3.82E-01
		2598.48		16.90	5.39E-02		2.50E-01
+	CO-57	122.06		85.51	-1.54E-02	6.22E-02	6.22E-02
		136.48		10.60	2.85E-01		5.30E-01
+	CO-58	810.76		99.40	-6.38E-02	8.87E-02	8.87E-02
+	FE-59	1099.22		56.50	-7.05E-02	2.06E-01	2.06E-01
		1291.56		43.20	3.02E-02		2.75E-01
+	CO-60	1173.22		100.00	1.29E-02	5.93E-02	8.31E-02
		1332.49		100.00	3.78E-03		5.93E-02
+	ZN-65	1115.52		50.75	1.92E-02	1.86E-01	1.86E-01
+	GA-67	93.31		35.70	3.32E+03	9.37E+02	9.37E+02
		208.95		2.24	2.40E+03		1.13E+04
		300.22		16.00	7.16E+02		1.67E+03
+	SE-75	121.11		16.70	3.37E-02	1.04E-01	3.62E-01
		136.00		59.20	-3.36E-02		1.05E-01
		264.65		59.80	3.06E-02		1.04E-01
		279.53		25.20	2.05E-02		2.53E-01
		400.65		11.40	-2.53E-02		5.55E-01
+	RB-82	776.52		13.00	-6.00E-01	1.21E+00	1.21E+00
+	RB-83	520.41		46.00	-1.10E-01	1.66E-01	1.66E-01
		529.64		30.30	-1.09E-01		2.63E-01
		552.65		16.40	-1.82E-01		4.50E-01
+	KR-85	513.99		0.43	1.85E+00	1.79E+01	1.79E+01
+	SR-85	513.99		99.27	1.23E-02	1.19E-01	1.19E-01
+	Y-88	898.02		93.40	-8.11E-03	5.86E-02	9.53E-02
		1836.01		99.38	-1.57E-02		5.86E-02
+	NB-93M	16.57		9.43	-9.91E+01	6.38E+01	6.38E+01
+	NB-94	702.63		100.00	2.65E-02	6.66E-02	6.66E-02
		871.10		100.00	1.61E-02		6.94E-02
+	NB-95	765.79		99.81	2.54E-01	2.00E-01	2.00E-01
+	NB-95M	235.69		25.00	-1.59E+03	5.05E+02	5.05E+02
+	ZR-95	724.18		43.70	-2.83E-02	1.79E-01	2.32E-01
		756.72		55.30	4.68E-02		1.79E-01
+	MO-99	181.06		6.20	8.03E+03	1.12E+04	1.99E+04
		739.58		12.80	1.79E+03		1.12E+04
		778.00		4.50	-1.34E+04		2.70E+04
+	RU-103	497.08		89.00	5.85E-02	1.32E-01	1.32E-01
+	RU-106	621.84		9.80	-2.08E-01	5.88E-01	5.88E-01
+	AG-108M	433.93		89.90	1.40E-02	6.54E-02	6.54E-02
		614.37		90.40	1.56E-02		7.50E-02
		722.95		90.50	-2.68E-02		7.23E-02
+	CD-109	88.03	*	3.72	3.19E+00	3.58E+00	3.58E+00
+	AG-110M	657.75		93.14	3.56E-02	7.35E-02	7.35E-02
		677.61		10.53	4.82E-02		6.55E-01
		706.67		16.46	1.12E-01		4.56E-01
		763.93		21.98	-1.07E+00		3.30E-01
		884.67		71.63	-3.22E-02		9.98E-02
		1384.27		23.94	4.82E-02		3.49E-01

Analysis Report for 1506115-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CD-113M	263.70		0.02	3.22E+01	2.11E+02	2.11E+02
+	SN-113	255.12		1.93	-2.11E+00	9.97E-02	3.22E+00
		391.69		64.90	1.52E-03		9.97E-02
+	TE123M	159.00		84.10	3.39E-02	8.04E-02	8.04E-02
+	SB-124	602.71		97.87	1.35E-02	1.04E-01	1.04E-01
		645.85		7.26	4.40E-01		1.23E+00
		722.78		11.10	-3.46E-01		9.31E-01
		1691.02		49.00	7.33E-02		1.91E-01
+	I-125	35.49		6.49	-1.69E+00	3.12E+00	3.12E+00
+	SB-125	176.33		6.89	1.91E-01	2.23E-01	7.92E-01
		427.89		29.33	1.32E-01		2.23E-01
		463.38		10.35	3.43E-01		6.37E-01
		600.56		17.80	-1.42E-02		3.65E-01
		635.90		11.32	-1.72E-02		5.06E-01
+	SB-126	414.70		83.30	-2.67E-01	5.49E-01	6.70E-01
		666.33		99.60	7.53E-01		6.66E-01
		695.00		99.60	8.20E-02		5.49E-01
		720.50		53.80	3.24E-01		1.12E+00
+	SN-126	87.57	*	37.00	3.02E-01	3.39E-01	3.39E-01
+	SB-127	473.00		25.00	1.18E+02	2.03E+02	2.99E+02
		685.20		35.70	-6.23E+01		2.03E+02
		783.80		14.70	2.62E+02		6.24E+02
+	I-129	29.78		57.00	-3.62E-01	4.26E-01	4.26E-01
		33.60		13.20	1.07E-01		1.17E+00
		39.58		7.52	6.32E-01		1.38E+00
+	I-131	284.30		6.05	5.85E-01	1.73E+00	2.62E+01
		364.48		81.20	1.34E-03		1.73E+00
		636.97		7.26	1.02E+01		2.44E+01
		722.89		1.80	-4.17E+01		1.12E+02
+	TE-132	49.72		13.10	-4.43E+02	2.71E+02	2.67E+03
		228.16		88.00	-1.54E+01		2.71E+02
+	BA-133	81.00		33.00	-1.40E+00	9.43E-02	1.87E-01
		302.84		17.80	7.68E-02		3.03E-01
		356.01		60.00	-1.22E+00		9.43E-02
+	I-133	529.87		86.30	-1.86E+12	4.51E+12	4.51E+12
+	CS-134	563.23		8.38	1.75E-01	7.79E-02	7.31E-01
		569.32		15.43	-1.39E-01		3.93E-01
		604.70		97.60	2.10E-02		8.37E-02
		795.84		85.40	2.41E-02		7.79E-02
		801.93		8.73	-5.25E-01		7.46E-01
+	CS-135	268.24		16.00	1.98E-01	3.47E-01	3.47E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	1.14E+00	4.87E-01	6.06E+00
		163.89		4.61	-6.18E+00		9.02E+00
		176.55		13.56	7.70E-01		3.19E+00
		273.65		12.66	5.59E-01		3.47E+00
		340.57		48.50	3.86E-01		9.85E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CS-136	818.50		99.70	2.55E-02	4.87E-01	4.87E-01
		1048.07		79.60	2.34E-01		7.19E-01
		1235.34		19.70	5.44E+00		4.65E+00
+	CS-137	661.65		85.12	-1.27E-01	6.78E-02	6.78E-02
+	LA-138	788.74		34.00	-9.99E-02	9.00E-02	1.97E-01
		1435.80		66.00	-2.07E-02		9.00E-02
+	CE-139	165.85		80.35	-2.26E-03	7.93E-02	7.93E-02
+	BA-140	162.64		6.70	5.87E+00	1.91E+00	6.76E+00
		304.84		4.50	-1.25E+00		9.76E+00
		423.70		3.20	-2.93E+00		1.72E+01
		437.55		2.00	-2.52E-01		2.51E+01
		537.32		25.00	-3.41E-01		1.91E+00
+	LA-140	328.77		20.50	-9.19E-02	6.23E-01	2.17E+00
		487.03		45.50	-1.09E-01		1.10E+00
		815.85		23.50	-6.60E-01		2.14E+00
		1596.49		95.49	-4.72E-02		6.23E-01
+	CE-141	145.44	*	48.40	1.53E-01	2.99E-01	2.99E-01
+	CE-143	57.36		11.80	-1.10E+08	1.41E+08	2.77E+08
		293.26		42.00	7.20E+08		1.41E+08
		664.55		5.20	4.66E+08		6.94E+08
+	CE-144	133.54		10.80	-1.04E-01	4.95E-01	4.95E-01
+	PM-144	476.78		42.00	-8.24E-02	6.46E-02	1.44E-01
		618.01		98.60	1.49E-02		6.62E-02
		696.49		99.49	1.67E-03		6.46E-02
+	PM-145	36.85		21.70	-3.10E-01	2.86E-01	5.29E-01
		37.36		39.70	1.82E-03		2.86E-01
		42.30		15.10	1.52E-01		5.93E-01
		72.40		2.31	-4.26E+00		3.24E+00
+	PM-146	453.90		39.94	5.82E-03	1.53E-01	1.53E-01
		735.90		14.01	-2.56E-01		4.30E-01
		747.13		13.10	-1.17E-01		4.66E-01
+	ND-147	91.11		28.90	-5.70E+00	2.96E+00	2.96E+00
		531.02		13.10	1.52E+00		5.62E+00
+	PM-149	285.90		3.10	3.58E+04	4.38E+05	4.38E+05
+	EU-152	121.78		20.50	-5.84E-02	2.35E-01	2.35E-01
		244.69		5.40	4.56E-02		1.18E+00
		344.27		19.13	1.17E-02		2.67E-01
		778.89		9.20	-1.65E-01		6.01E-01
		964.01		10.40	1.62E-01		7.86E-01
		1085.78		7.22	5.02E-01		1.05E+00
		1112.02		9.60	1.34E-01		7.52E-01
		1407.95		14.94	5.06E-01		6.42E-01
+	GD-153	97.43		31.30	-4.47E-02	1.73E-01	1.73E-01
		103.18		22.20	-1.15E-01		2.34E-01
+	EU-154	123.07		40.50	-1.68E-02	1.21E-01	1.21E-01
		723.30		19.70	-1.24E-01		3.35E-01
		873.19		11.50	-7.01E-02		5.68E-01
		996.32		10.30	-3.95E-01		6.38E-01
		1004.76		17.90	3.19E-02		3.80E-01

Analysis Report for 1506115-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	EU-154	1274.45		35.50	-2.05E-02	1.21E-01	2.07E-01
+	EU-155	86.50		30.90	5.01E-02	2.18E-01	2.18E-01
		105.30		20.70	6.29E-02		2.30E-01
+	EU-156	811.77		10.40	-1.09E+00	3.56E+00	3.56E+00
		1153.47		7.20	2.12E+00		7.55E+00
		1230.71		8.90	-7.60E-01		4.45E+00
+	HO-166M	184.41		72.60	2.61E-01	1.03E-01	1.03E-01
		280.45		29.60	-1.60E-02		1.70E-01
		410.94		11.10	2.76E-02		5.44E-01
		711.69		54.10	2.66E-02		1.11E-01
+	TM-171	66.72		0.14	-1.52E+02	5.00E+01	5.00E+01
+	HF-172	81.75		4.52	-2.17E+00	4.62E-01	1.40E+00
		125.81		11.30	-1.66E-01		4.62E-01
+	LU-172	181.53		20.60	2.53E+00	5.86E+00	1.60E+01
		810.06		16.63	-6.31E+00		2.36E+01
		912.12		15.25	4.25E+01		3.79E+01
		1093.66		62.50	-1.55E+00		5.86E+00
+	LU-173	100.72		5.24	4.38E-01	2.90E-01	9.59E-01
		272.11		21.20	2.33E-01		2.90E-01
+	HF-175	343.40		84.00	7.88E-04	9.00E-02	9.00E-02
+	LU-176	88.34		13.30	6.29E-01	5.26E-02	4.99E-01
		201.83		86.00	-9.35E-03		6.08E-02
		306.78		94.00	-4.38E-04		5.26E-02
+	TA-182	67.75	*	41.20	8.89E-02	3.10E-01	4.78E-01
		1121.30	*	34.90	1.93E+00		5.23E-01
		1189.05		16.23	-1.23E-01		5.76E-01
		1221.41		26.98	-6.81E-02		3.10E-01
		1231.02		11.44	-1.22E-01		7.17E-01
+	IR-192	308.46		29.68	9.42E-02	1.70E-01	2.41E-01
		468.07		48.10	-2.32E-01		1.70E-01
+	HG-203	279.19		77.30	2.56E-02	1.21E-01	1.21E-01
+	BI-207	569.67		97.72	-1.63E-02	6.03E-02	6.03E-02
		1063.62		74.90	4.38E-04		9.44E-02
+	TL-208	583.14	*	30.22	5.56E-01	8.59E-02	3.41E-01
		860.37	*	4.48	9.58E-01		1.92E+00
		2614.66	*	35.85	4.48E-01		8.59E-02
+	BI-210M	262.00		45.00	-3.07E-02	1.08E-01	1.08E-01
		300.00		23.00	1.05E-01		2.45E-01
+	PB-210	46.50	*	4.25	2.13E+00	2.50E+00	2.50E+00
+	PB-211	404.84		2.90	4.65E-02	1.75E+00	1.75E+00
		831.96		2.90	-3.27E-01		2.20E+00
+	BI-212	727.17		11.80	-1.02E-01	5.74E-01	5.74E-01
		1620.62		2.75	3.44E-01		2.25E+00
+	PB-212	238.63	*	44.60	5.52E-01	2.65E-01	2.65E-01
		300.09		3.41	7.10E-01		1.65E+00
+	BI-214	609.31	*	46.30	3.03E+00	2.30E-01	2.30E-01
		1120.29	*	15.10	3.50E+00		9.49E-01
		1764.49	*	15.80	3.74E+00		3.21E-01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BI-214	2204.22	*	4.98	3.57E+00	2.30E-01	9.42E-01
+	PB-214	295.21	*	19.19	3.50E+00	2.40E-01	4.82E-01
		351.92	*	37.19	3.53E+00		2.40E-01
+	RN-219	401.80		6.50	-2.63E-01	7.70E-01	7.70E-01
+	RA-223	323.87		3.88	1.31E-01	1.33E+00	1.33E+00
+	RA-224	240.98	*	3.95	6.25E+00	2.99E+00	2.99E+00
+	RA-225	40.00		31.00	9.64E-01	2.10E+00	2.10E+00
+	RA-226	186.21	*	3.28	6.08E+00	2.30E+00	2.30E+00
+	TH-227	50.10		8.40	-1.43E-01	5.26E-01	8.63E-01
		236.00		11.50	-1.66E+00		5.26E-01
		256.20		6.30	-4.21E-01		7.78E-01
+	AC-228	338.32	*	11.40	5.44E-01	3.57E-01	8.38E-01
		911.07	*	27.70	3.56E-01		3.57E-01
		969.11		16.60	4.30E-01		5.77E-01
+	TH-230	48.44		16.90	7.17E-01	5.02E-01	5.02E-01
		62.85		4.60	3.90E+00		1.69E+00
		67.67		0.37	8.36E+00		1.82E+01
+	PA-231	283.67		1.60	-1.62E-01	2.33E+00	3.14E+00
		302.67		2.30	5.90E-01		2.33E+00
+	TH-231	25.64		14.70	-8.71E-01	9.86E-01	4.68E+00
		84.21		6.40	-1.94E+00		9.86E-01
+	PA-233	311.98		38.60	-1.61E-01	3.38E-01	3.38E-01
+	PA-234	131.20		20.40	-1.03E-01	2.40E-01	2.40E-01
		733.99		8.80	2.97E-01		7.47E-01
		946.00		12.00	-3.22E-01		5.21E-01
+	PA-234M	1001.03		0.92	7.57E+00	8.69E+00	8.69E+00
+	TH-234	63.29	*	3.80	2.97E+00	2.44E+00	2.44E+00
+	U-235	143.76		10.50	7.42E-02	5.08E-01	5.08E-01
		163.35		4.70	-7.44E-01		1.09E+00
		205.31		4.70	-1.39E-03		1.13E+00
+	NP-237	86.50		12.60	1.21E-01	5.27E-01	5.27E-01
+	NP-239	106.10		22.70	6.94E+03	2.54E+04	2.54E+04
		228.18		10.70	-3.27E+03		5.74E+04
		277.60		14.10	-9.77E+03		4.44E+04
+	AM-241	59.54		35.90	-3.27E-02	1.82E-01	1.82E-01
+	AM-243	74.67	*	66.00	3.27E-01	2.27E-01	2.27E-01
+	CM-243	209.75		3.29	5.89E-01	3.65E-01	1.61E+00
		228.14		10.60	-2.70E-02		4.73E-01
		277.60		14.00	-8.05E-02		3.65E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1506115-03

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	8.93E-01	8.93E-01	-5.09E-01	4.24E-01
	NA-22	1274.54		99.94	7.51E-02	7.51E-02	-7.43E-03	3.44E-02
	NA-24	1368.53		99.99	8.57E+17	1.30E+17	-1.95E+17	3.81E+17
		2754.09		99.86	1.30E+17		0.00E+00	0.00E+00
	AL-26	1808.65		99.76	4.91E-02	4.91E-02	-5.35E-03	2.07E-02
+	K-40	1460.81	*	10.67	1.17E+00	1.17E+00	6.64E+00	5.52E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
+	TI-44	67.88	*	94.40	1.64E-01	1.55E-01	3.05E-02	8.14E-02
		78.34	*	96.00	1.55E-01		3.86E-01	7.68E-02
	SC-46	889.25		99.98	9.14E-02	9.14E-02	-3.46E-02	4.26E-02
		1120.51		99.99	2.31E-01		7.07E-01	1.12E-01
	V-48	983.52		99.98	3.92E-01	3.52E-01	1.02E-01	1.82E-01
		1312.10		97.50	3.52E-01		-1.38E-02	1.58E-01
	CR-51	320.08		9.83	1.34E+00	1.34E+00	-6.96E-01	6.43E-01
	MN-54	834.83		99.97	6.88E-02	6.88E-02	-2.53E-03	3.21E-02
	CO-56	846.75		99.96	9.31E-02	9.31E-02	3.92E-02	4.35E-02
		1037.75		14.03	5.39E-01		-1.29E-01	2.44E-01
		1238.25		67.00	2.55E-01		3.43E-01	1.21E-01
		1771.40		15.51	3.82E-01		-1.07E-01	1.56E-01
		2598.48		16.90	2.50E-01		5.39E-02	8.87E-02
	CO-57	122.06		85.51	6.22E-02	6.22E-02	-1.54E-02	3.03E-02
		136.48		10.60	5.30E-01		2.85E-01	2.58E-01
	CO-58	810.76		99.40	8.87E-02	8.87E-02	-6.38E-02	4.12E-02
	FE-59	1099.22		56.50	2.06E-01	2.06E-01	-7.05E-02	9.44E-02
		1291.56		43.20	2.75E-01		3.02E-02	1.25E-01
	CO-60	1173.22		100.00	8.31E-02	5.93E-02	1.29E-02	3.87E-02
		1332.49		100.00	5.93E-02		3.78E-03	2.65E-02
	ZN-65	1115.52		50.75	1.86E-01	1.86E-01	1.92E-02	8.72E-02
	GA-67	93.31		35.70	9.37E+02	9.37E+02	3.32E+03	4.61E+02
		208.95		2.24	1.13E+04		2.40E+03	5.50E+03
		300.22		16.00	1.67E+03		7.16E+02	8.05E+02
	SE-75	121.11		16.70	3.62E-01	1.04E-01	3.37E-02	1.76E-01
		136.00		59.20	1.05E-01		-3.36E-02	5.13E-02
		264.65		59.80	1.04E-01		3.06E-02	5.03E-02
		279.53		25.20	2.53E-01		2.05E-02	1.22E-01
		400.65		11.40	5.55E-01		-2.53E-02	2.64E-01
	RB-82	776.52		13.00	1.21E+00	1.21E+00	-6.00E-01	5.59E-01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RB-83	520.41		46.00	1.66E-01	1.66E-01	-1.10E-01	7.88E-02
		529.64		30.30	2.63E-01		-1.09E-01	1.25E-01
		552.65		16.40	4.50E-01		-1.82E-01	2.12E-01
	KR-85	513.99		0.43	1.79E+01	1.79E+01	1.85E+00	8.60E+00
	SR-85	513.99		99.27	1.19E-01	1.19E-01	1.23E-02	5.71E-02
	Y-88	898.02		93.40	9.53E-02	5.86E-02	-8.11E-03	4.45E-02
		1836.01		99.38	5.86E-02		-1.57E-02	2.43E-02
	NB-93M	16.57		9.43	6.38E+01	6.38E+01	-9.91E+01	2.97E+01
	NB-94	702.63		100.00	6.66E-02	6.66E-02	2.65E-02	3.14E-02
		871.10		100.00	6.94E-02		1.61E-02	3.25E-02
	NB-95	765.79		99.81	2.00E-01	2.00E-01	2.54E-01	9.55E-02
	NB-95M	235.69		25.00	5.05E+02	5.05E+02	-1.59E+03	2.45E+02
	ZR-95	724.18		43.70	2.32E-01	1.79E-01	-2.83E-02	1.09E-01
		756.72		55.30	1.79E-01		4.68E-02	8.40E-02
	MO-99	181.06		6.20	1.99E+04	1.12E+04	8.03E+03	9.66E+03
		739.58		12.80	1.12E+04		1.79E+03	5.23E+03
		778.00		4.50	2.70E+04		-1.34E+04	1.25E+04
	RU-103	497.08		89.00	1.32E-01	1.32E-01	5.85E-02	6.25E-02
	RU-106	621.84		9.80	5.88E-01	5.88E-01	-2.08E-01	2.75E-01
	AG-108M	433.93		89.90	6.54E-02	6.54E-02	1.40E-02	3.12E-02
		614.37		90.40	7.50E-02		1.56E-02	3.56E-02
		722.95		90.50	7.23E-02		-2.68E-02	3.40E-02
+	CD-109	88.03	*	3.72	3.58E+00	3.58E+00	3.19E+00	1.77E+00
	AG-110M	657.75		93.14	7.35E-02	7.35E-02	3.56E-02	3.46E-02
		677.61		10.53	6.55E-01		4.82E-02	3.08E-01
		706.67		16.46	4.56E-01		1.12E-01	2.15E-01
		763.93		21.98	3.30E-01		-1.07E+00	1.55E-01
		884.67		71.63	9.98E-02		-3.22E-02	4.64E-02
		1384.27		23.94	3.49E-01		4.82E-02	1.60E-01
	CD-113M	263.70		0.02	2.11E+02	2.11E+02	3.22E+01	1.01E+02
	SN-113	255.12		1.93	3.22E+00	9.97E-02	-2.11E+00	1.55E+00
		391.69		64.90	9.97E-02		1.52E-03	4.75E-02
	TE123M	159.00		84.10	8.04E-02	8.04E-02	3.39E-02	3.92E-02
	SB-124	602.71		97.87	1.04E-01	1.04E-01	1.35E-02	4.93E-02
		645.85		7.26	1.23E+00		4.40E-01	5.77E-01
		722.78		11.10	9.31E-01		-3.46E-01	4.38E-01
		1691.02		49.00	1.91E-01		7.33E-02	8.36E-02
	I-125	35.49		6.49	3.12E+00	3.12E+00	-1.69E+00	1.51E+00
	SB-125	176.33		6.89	7.92E-01	2.23E-01	1.91E-01	3.85E-01
		427.89		29.33	2.23E-01		1.32E-01	1.07E-01
		463.38		10.35	6.37E-01		3.43E-01	3.05E-01
		600.56		17.80	3.65E-01		-1.42E-02	1.73E-01
		635.90		11.32	5.06E-01		-1.72E-02	2.38E-01
	SB-126	414.70		83.30	6.70E-01	5.49E-01	-2.67E-01	3.21E-01
		666.33		99.60	6.66E-01		7.53E-01	3.16E-01
		695.00		99.60	5.49E-01		8.20E-02	2.57E-01
		720.50		53.80	1.12E+00		3.24E-01	5.25E-01
+	SN-126	87.57	*	37.00	3.39E-01	3.39E-01	3.02E-01	1.68E-01
	SB-127	473.00		25.00	2.99E+02	2.03E+02	1.18E+02	1.42E+02
		685.20		35.70	2.03E+02		-6.23E+01	9.46E+01
		783.80		14.70	6.24E+02		2.62E+02	2.94E+02
	I-129	29.78		57.00	4.26E-01	4.26E-01	-3.62E-01	2.06E-01
		33.60		13.20	1.17E+00		1.07E-01	5.70E-01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	I-129	39.58		7.52	1.38E+00	4.26E-01	6.32E-01	6.71E-01
	I-131	284.30		6.05	2.62E+01	1.73E+00	5.85E-01	1.26E+01
		364.48		81.20	1.73E+00		1.34E-03	8.21E-01
		636.97		7.26	2.44E+01		1.02E+01	1.15E+01
		722.89		1.80	1.12E+02		-4.17E+01	5.29E+01
	TE-132	49.72		13.10	2.67E+03	2.71E+02	-4.43E+02	1.30E+03
		228.16		88.00	2.71E+02		-1.54E+01	1.31E+02
	BA-133	81.00		33.00	1.87E-01	9.43E-02	-1.40E+00	9.15E-02
		302.84		17.80	3.03E-01		7.68E-02	1.46E-01
		356.01		60.00	9.43E-02		-1.22E+00	4.52E-02
	I-133	529.87		86.30	4.51E+12	4.51E+12	-1.86E+12	2.14E+12
	CS-134	563.23		8.38	7.31E-01	7.79E-02	1.75E-01	3.46E-01
		569.32		15.43	3.93E-01		-1.39E-01	1.86E-01
		604.70		97.60	8.37E-02		2.10E-02	4.01E-02
		795.84		85.40	7.79E-02		2.41E-02	3.64E-02
		801.93		8.73	7.46E-01		-5.25E-01	3.48E-01
	CS-135	268.24		16.00	3.47E-01	3.47E-01	1.98E-01	1.68E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	6.06E+00	4.87E-01	1.14E+00	2.96E+00
		163.89		4.61	9.02E+00		-6.18E+00	4.39E+00
		176.55		13.56	3.19E+00		7.70E-01	1.55E+00
		273.65		12.66	3.47E+00		5.59E-01	1.67E+00
		340.57		48.50	9.85E-01		3.86E-01	4.74E-01
		818.50		99.70	4.87E-01		2.55E-02	2.26E-01
		1048.07		79.60	7.19E-01		2.34E-01	3.33E-01
		1235.34		19.70	4.65E+00		5.44E+00	2.20E+00
	CS-137	661.65		85.12	6.78E-02	6.78E-02	-1.27E-01	3.18E-02
	LA-138	788.74		34.00	1.97E-01	9.00E-02	-9.99E-02	9.24E-02
		1435.80		66.00	9.00E-02		-2.07E-02	4.00E-02
	CE-139	165.85		80.35	7.93E-02	7.93E-02	-2.26E-03	3.86E-02
	BA-140	162.64		6.70	6.76E+00	1.91E+00	5.87E+00	3.29E+00
		304.84		4.50	9.76E+00		-1.25E+00	4.68E+00
		423.70		3.20	1.72E+01		-2.93E+00	8.24E+00
		437.55		2.00	2.51E+01		-2.52E-01	1.20E+01
		537.32		25.00	1.91E+00		-3.41E-01	9.02E-01
	LA-140	328.77		20.50	2.17E+00	6.23E-01	-9.19E-02	1.04E+00
		487.03		45.50	1.10E+00		-1.09E-01	5.25E-01
		815.85		23.50	2.14E+00		-6.60E-01	9.91E-01
		1596.49		95.49	6.23E-01		-4.72E-02	2.80E-01
+	CE-141	145.44	*	48.40	2.99E-01	2.99E-01	1.53E-01	1.46E-01
	CE-143	57.36		11.80	2.77E+08	1.41E+08	-1.10E+08	1.35E+08
		293.26		42.00	1.41E+08		7.20E+08	6.95E+07
		664.55		5.20	6.94E+08		4.66E+08	3.29E+08
	CE-144	133.54		10.80	4.95E-01	4.95E-01	-1.04E-01	2.41E-01
	PM-144	476.78		42.00	1.44E-01	6.46E-02	-8.24E-02	6.82E-02
		618.01		98.60	6.62E-02		1.49E-02	3.13E-02
		696.49		99.49	6.46E-02		1.67E-03	3.03E-02
	PM-145	36.85		21.70	5.29E-01	2.86E-01	-3.10E-01	2.57E-01
		37.36		39.70	2.86E-01		1.82E-03	1.39E-01
		42.30		15.10	5.93E-01		1.52E-01	2.88E-01
		72.40		2.31	3.24E+00		-4.26E+00	1.60E+00

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
PM-146	453.90		39.94	1.53E-01	1.53E-01	5.82E-03	7.29E-02
	735.90		14.01	4.30E-01		-2.56E-01	2.01E-01
	747.13		13.10	4.66E-01		-1.17E-01	2.18E-01
ND-147	91.11		28.90	2.96E+00	2.96E+00	-5.70E+00	1.46E+00
	531.02		13.10	5.62E+00		1.52E+00	2.67E+00
PM-149	285.90		3.10	4.38E+05	4.38E+05	3.58E+04	2.11E+05
EU-152	121.78		20.50	2.35E-01	2.35E-01	-5.84E-02	1.15E-01
	244.69		5.40	1.18E+00		4.56E-02	5.72E-01
	344.27		19.13	2.67E-01		1.17E-02	1.28E-01
	778.89		9.20	6.01E-01		-1.65E-01	2.78E-01
	964.01		10.40	7.86E-01		1.62E-01	3.70E-01
	1085.78		7.22	1.05E+00		5.02E-01	4.88E-01
	1112.02		9.60	7.52E-01		1.34E-01	3.47E-01
	1407.95		14.94	6.42E-01		5.06E-01	2.99E-01
GD-153	97.43		31.30	1.73E-01	1.73E-01	-4.47E-02	8.42E-02
	103.18		22.20	2.34E-01		-1.15E-01	1.14E-01
EU-154	123.07		40.50	1.21E-01	1.21E-01	-1.68E-02	5.91E-02
	723.30		19.70	3.35E-01		-1.24E-01	1.58E-01
	873.19		11.50	5.68E-01		-7.01E-02	2.65E-01
	996.32		10.30	6.38E-01		-3.95E-01	2.95E-01
	1004.76		17.90	3.80E-01		3.19E-02	1.76E-01
	1274.45		35.50	2.07E-01		-2.05E-02	9.50E-02
EU-155	86.50		30.90	2.18E-01	2.18E-01	5.01E-02	1.07E-01
	105.30		20.70	2.30E-01		6.29E-02	1.12E-01
EU-156	811.77		10.40	3.56E+00	3.56E+00	-1.09E+00	1.66E+00
	1153.47		7.20	7.55E+00		2.12E+00	3.54E+00
	1230.71		8.90	4.45E+00		-7.60E-01	2.02E+00
HO-166M	184.41		72.60	1.03E-01	1.03E-01	2.61E-01	5.07E-02
	280.45		29.60	1.70E-01		-1.60E-02	8.16E-02
	410.94		11.10	5.44E-01		2.76E-02	2.61E-01
	711.69		54.10	1.11E-01		2.66E-02	5.21E-02
TM-171	66.72		0.14	5.00E+01	5.00E+01	-1.52E+02	2.45E+01
HF-172	81.75		4.52	1.40E+00	4.62E-01	-2.17E+00	6.88E-01
	125.81		11.30	4.62E-01		-1.66E-01	2.25E-01
LU-172	181.53		20.60	1.60E+01	5.86E+00	2.53E+00	7.80E+00
	810.06		16.63	2.36E+01		-6.31E+00	1.10E+01
	912.12		15.25	3.79E+01		4.25E+01	1.80E+01
	1093.66		62.50	5.86E+00		-1.55E+00	2.67E+00
LU-173	100.72		5.24	9.59E-01	2.90E-01	4.38E-01	4.68E-01
	272.11		21.20	2.90E-01		2.33E-01	1.40E-01
HF-175	343.40		84.00	9.00E-02	9.00E-02	7.88E-04	4.30E-02
LU-176	88.34		13.30	4.99E-01	5.26E-02	6.29E-01	2.45E-01
	201.83		86.00	6.08E-02		-9.35E-03	2.95E-02
	306.78		94.00	5.26E-02		-4.38E-04	2.52E-02
TA-182	67.75	*	41.20	4.78E-01	3.10E-01	8.89E-02	2.37E-01
	1121.30	*	34.90	5.23E-01		1.93E+00	2.51E-01
	1189.05		16.23	5.76E-01		-1.23E-01	2.66E-01
	1221.41		26.98	3.10E-01		-6.81E-02	1.41E-01
	1231.02		11.44	7.17E-01		-1.22E-01	3.26E-01
IR-192	308.46		29.68	2.41E-01	1.70E-01	9.42E-02	1.16E-01
	468.07		48.10	1.70E-01		-2.32E-01	8.09E-02
HG-203	279.19		77.30	1.21E-01	1.21E-01	2.56E-02	5.81E-02
BI-207	569.67		97.72	6.03E-02	6.03E-02	-1.63E-02	2.85E-02

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-207	1063.62		74.90	9.44E-02	6.03E-02	4.38E-04	4.37E-02
+	TL-208	583.14	*	30.22	3.41E-01	8.59E-02	5.56E-01	1.65E-01
		860.37	*	4.48	1.92E+00		9.58E-01	9.12E-01
		2614.66	*	35.85	8.59E-02		4.48E-01	3.09E-02
	BI-210M	262.00		45.00	1.08E-01	1.08E-01	-3.07E-02	5.18E-02
		300.00		23.00	2.45E-01		1.05E-01	1.18E-01
+	PB-210	46.50	*	4.25	2.50E+00	2.50E+00	2.13E+00	1.23E+00
	PB-211	404.84		2.90	1.75E+00	1.75E+00	4.65E-02	8.34E-01
		831.96		2.90	2.20E+00		-3.27E-01	1.03E+00
	BI-212	727.17		11.80	5.74E-01	5.74E-01	-1.02E-01	2.71E-01
		1620.62		2.75	2.25E+00		3.44E-01	9.95E-01
+	PB-212	238.63	*	44.60	2.65E-01	2.65E-01	5.52E-01	1.30E-01
		300.09		3.41	1.65E+00		7.10E-01	7.98E-01
+	BI-214	609.31	*	46.30	2.30E-01	2.30E-01	3.03E+00	1.12E-01
		1120.29	*	15.10	9.49E-01		3.50E+00	4.57E-01
		1764.49	*	15.80	3.21E-01		3.74E+00	1.37E-01
		2204.22	*	4.98	9.42E-01		3.57E+00	3.87E-01
+	PB-214	295.21	*	19.19	4.82E-01	2.40E-01	3.50E+00	2.36E-01
		351.92	*	37.19	2.40E-01		3.53E+00	1.17E-01
	RN-219	401.80		6.50	7.70E-01	7.70E-01	-2.63E-01	3.66E-01
	RA-223	323.87		3.88	1.33E+00	1.33E+00	1.31E-01	6.36E-01
+	RA-224	240.98	*	3.95	2.99E+00	2.99E+00	6.25E+00	1.48E+00
	RA-225	40.00		31.00	2.10E+00	2.10E+00	9.64E-01	1.02E+00
+	RA-226	186.21	*	3.28	2.30E+00	2.30E+00	6.08E+00	1.13E+00
	TH-227	50.10		8.40	8.63E-01	5.26E-01	-1.43E-01	4.21E-01
		236.00		11.50	5.26E-01		-1.66E+00	2.56E-01
		256.20		6.30	7.78E-01		-4.21E-01	3.75E-01
+	AC-228	338.32	*	11.40	8.38E-01	3.57E-01	5.44E-01	4.09E-01
		911.07	*	27.70	3.57E-01		3.56E-01	1.70E-01
		969.11		16.60	5.77E-01		4.30E-01	2.74E-01
	TH-230	48.44		16.90	5.02E-01	5.02E-01	7.17E-01	2.45E-01
		62.85		4.60	1.69E+00		3.90E+00	8.31E-01
		67.67		0.37	1.82E+01		8.36E+00	8.93E+00
	PA-231	283.67		1.60	3.14E+00	2.33E+00	-1.62E-01	1.51E+00
		302.67		2.30	2.33E+00		5.90E-01	1.12E+00
	TH-231	25.64		14.70	4.68E+00	9.86E-01	-8.71E-01	2.29E+00
		84.21		6.40	9.86E-01		-1.94E+00	4.84E-01
	PA-233	311.98		38.60	3.38E-01	3.38E-01	-1.61E-01	1.62E-01
	PA-234	131.20		20.40	2.40E-01	2.40E-01	-1.03E-01	1.17E-01
		733.99		8.80	7.47E-01		2.97E-01	3.52E-01
		946.00		12.00	5.21E-01		-3.22E-01	2.41E-01
	PA-234M	1001.03		0.92	8.69E+00	8.69E+00	7.57E+00	4.08E+00
+	TH-234	63.29	*	3.80	2.44E+00	2.44E+00	2.97E+00	1.20E+00
	U-235	143.76		10.50	5.08E-01	5.08E-01	7.42E-02	2.48E-01
		163.35		4.70	1.09E+00		-7.44E-01	5.28E-01
		205.31		4.70	1.13E+00		-1.39E-03	5.49E-01
	NP-237	86.50		12.60	5.27E-01	5.27E-01	1.21E-01	2.59E-01
	NP-239	106.10		22.70	2.54E+04	2.54E+04	6.94E+03	1.24E+04
		228.18		10.70	5.74E+04		-3.27E+03	2.77E+04
		277.60		14.10	4.44E+04		-9.77E+03	2.14E+04
	AM-241	59.54		35.90	1.82E-01	1.82E-01	-3.27E-02	8.92E-02
+	AM-243	74.67	*	66.00	2.27E-01	2.27E-01	3.27E-01	1.13E-01
	CM-243	209.75		3.29	1.61E+00	3.65E-01	5.89E-01	7.81E-01

Analysis Report for 1506115-03

FEEBRIS1D-13.093-094

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CM-243	228.14	10.60	4.73E-01	3.65E-01	-2.70E-02	2.29E-01
	277.60	14.00	3.65E-01		-8.05E-02	1.76E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** SPECTRAL DATA REPORT *****
****

Sample Title: FEEBRIS1D-13.093-094

Elapsed Live time: 3600
Elapsed Real Time: 3602

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	64	126	121	245	325	347
25:	79	79	85	71	79	60	62	74
33:	84	78	64	62	76	76	79	85
41:	84	116	81	85	82	113	230	149
49:	95	109	114	99	118	129	104	99
57:	115	122	127	143	158	161	244	384
65:	169	156	184	211	190	185	174	166
73:	190	214	486	398	481	694	216	186
81:	162	177	144	214	223	154	225	303
89:	168	203	175	188	448	295	160	136
97:	104	92	123	105	123	100	91	102
105:	109	107	105	98	103	125	104	117
113:	119	104	108	122	92	105	98	101
121:	115	92	102	96	112	110	117	106
129:	126	117	101	96	99	87	99	102
137:	101	107	111	96	103	100	96	136
145:	116	104	110	99	96	133	98	110
153:	126	114	104	109	115	111	103	74
161:	103	82	93	103	88	77	102	86
169:	91	86	84	95	109	86	94	90
177:	97	73	88	82	89	103	85	79
185:	113	323	253	98	63	88	71	82
193:	72	81	67	84	77	99	74	76
201:	77	73	59	80	77	80	77	56
209:	83	85	68	63	56	62	74	53
217:	62	77	74	52	44	54	61	76
225:	64	62	57	46	59	61	61	71
233:	55	62	60	72	99	110	299	121
241:	91	256	205	55	55	58	47	46
249:	60	50	50	63	43	44	49	47
257:	51	43	70	42	47	36	45	51
265:	48	37	48	30	60	69	77	69
273:	35	57	56	43	49	43	57	35
281:	47	40	38	45	43	47	49	41
289:	48	46	47	57	49	59	415	524
297:	116	54	35	65	56	41	41	44
305:	41	29	42	34	39	34	33	29
313:	29	37	40	39	37	21	43	40
321:	33	32	43	41	38	32	30	41
329:	35	35	40	36	40	37	33	35
337:	26	74	89	42	29	40	27	39
345:	32	29	38	28	40	49	201	822
353:	577	80	34	30	24	26	33	21
361:	24	32	28	20	24	30	18	17

369:	26	28	22	26	14	26	30	24

Sample Title: FEEBRIS1D-13.093-094

Channel								
377:	35	27	24	18	24	26	28	24
385:	30	18	31	35	46	38	29	18
393:	21	31	14	25	29	26	27	23
401:	24	31	24	25	26	36	19	27
409:	22	31	27	17	26	32	27	21
417:	27	29	21	38	29	32	30	15
425:	28	30	29	32	26	16	30	19
433:	23	23	27	19	17	22	19	20
441:	28	25	23	11	16	16	9	24
449:	16	26	16	18	25	17	36	24
457:	19	20	25	22	16	27	37	32
465:	18	27	15	13	21	16	19	24
473:	27	19	12	16	20	10	19	27
481:	17	21	20	24	27	13	27	12
489:	16	10	13	24	9	23	22	15
497:	17	14	17	17	16	10	18	16
505:	10	14	20	17	21	51	56	52
513:	29	19	14	21	23	20	18	11
521:	11	16	12	18	22	15	17	13
529:	17	18	14	17	16	24	15	13
537:	12	15	17	18	9	12	12	10
545:	15	20	17	12	16	11	17	9
553:	11	13	15	13	18	15	15	10
561:	17	15	11	15	18	20	6	18
569:	14	17	15	12	21	14	15	9
577:	18	14	17	18	19	19	60	70
585:	22	20	14	16	11	10	11	16
593:	15	15	12	15	17	19	9	11
601:	12	16	20	23	17	15	18	64
609:	490	547	107	25	23	13	19	15
617:	16	12	8	12	14	12	5	9
625:	13	16	7	11	11	16	13	10
633:	9	15	11	12	6	13	11	13
641:	9	8	12	8	5	16	14	11
649:	11	9	9	12	12	11	10	11
657:	14	21	10	15	8	7	9	9
665:	19	38	16	16	14	8	11	4
673:	9	11	12	13	13	12	11	5
681:	20	13	11	9	8	12	6	9
689:	15	11	14	7	6	7	14	11
697:	19	11	8	6	13	14	15	18
705:	23	6	13	11	12	13	15	6
713:	11	9	9	2	13	14	10	14
721:	15	7	12	14	12	13	15	19
729:	10	10	14	22	9	12	7	13
737:	9	11	8	10	10	12	17	12
745:	8	9	11	10	7	12	8	10
753:	10	5	7	14	7	17	14	14
761:	8	10	9	9	11	12	19	47
769:	51	18	13	11	13	8	8	5
777:	5	7	9	8	8	11	9	11
785:	24	16	11	16	7	7	5	17
793:	15	10	10	7	9	9	11	4

801:	9	13	6	10	14	19	17	7

Sample Title: FEEBRIS1D-13.093-094

Channel								
809:	8	8	12	7	9	8	8	8
817:	10	3	9	9	10	9	7	9
825:	16	10	14	12	9	7	14	15
833:	8	2	10	7	11	10	16	17
841:	15	9	7	7	10	13	10	12
849:	10	5	4	9	15	5	7	11
857:	10	7	11	17	19	8	10	4
865:	10	10	12	12	13	8	9	13
873:	10	7	5	10	7	8	7	10
881:	17	6	10	10	10	3	6	14
889:	6	9	12	12	9	15	7	6
897:	12	15	9	9	9	8	9	11
905:	5	12	11	7	7	16	43	33
913:	14	8	6	9	10	9	14	7
921:	10	9	3	7	3	8	12	6
929:	11	7	6	11	13	32	19	16
937:	6	9	6	9	14	9	6	8
945:	9	11	6	5	5	9	10	11
953:	6	11	3	4	3	9	8	9
961:	7	8	16	14	16	17	7	21
969:	23	27	10	14	7	10	3	5
977:	2	7	5	9	5	7	7	7
985:	10	9	14	8	6	6	9	8
993:	7	5	7	5	5	9	12	10
1001:	14	19	5	8	4	8	6	3
1009:	6	4	6	6	11	4	2	10
1017:	7	13	4	6	5	9	6	12
1025:	9	6	4	4	7	6	10	10
1033:	7	5	7	2	2	4	5	4
1041:	6	6	7	5	9	5	8	9
1049:	8	6	9	6	6	3	10	4
1057:	2	7	5	9	4	6	8	10
1065:	14	6	5	5	11	13	8	8
1073:	11	13	4	8	4	5	9	12
1081:	7	7	12	10	5	7	5	16
1089:	4	4	6	5	5	7	5	3
1097:	4	10	5	9	3	5	9	7
1105:	4	9	3	9	1	14	5	7
1113:	5	12	7	6	4	7	31	127
1121:	99	26	3	8	4	5	2	12
1129:	5	4	2	8	3	13	12	10
1137:	4	5	6	8	6	6	3	6
1145:	9	8	5	9	12	9	11	6
1153:	9	7	15	18	12	3	5	5
1161:	4	5	13	6	10	6	4	6
1169:	7	10	9	12	8	5	9	9
1177:	8	10	5	6	5	7	9	8
1185:	6	10	4	8	7	9	8	2
1193:	4	13	7	2	8	10	4	9
1201:	7	5	2	5	7	7	10	7
1209:	9	5	6	4	9	8	7	8
1217:	3	5	5	8	7	2	4	5
1225:	5	8	9	4	4	3	5	3

1233:	3	12	7	6	22	59	17	12

Sample Title: FEEBRIS1D-13.093-094

Channel								
1241:	6	12	4	8	2	3	12	4
1249:	6	2	6	4	11	6	7	7
1257:	7	1	8	4	6	3	3	4
1265:	5	3	9	4	5	8	6	6
1273:	6	10	6	6	2	4	11	18
1281:	14	11	4	5	8	4	5	2
1289:	3	6	3	5	7	5	4	6
1297:	9	6	7	6	3	3	5	5
1305:	2	3	4	3	3	4	5	0
1313:	3	5	7	4	5	4	4	4
1321:	2	8	7	2	2	6	6	2
1329:	3	1	6	3	3	4	4	2
1337:	3	0	5	4	4	1	0	3
1345:	6	3	7	6	7	1	5	0
1353:	0	4	8	4	6	5	4	7
1361:	3	6	6	2	3	1	3	6
1369:	3	4	2	7	4	7	3	7
1377:	28	26	9	3	4	8	3	1
1385:	10	6	7	4	4	1	3	2
1393:	3	4	4	0	4	2	2	8
1401:	10	10	5	6	3	5	12	25
1409:	10	5	4	6	2	2	6	8
1417:	5	3	3	2	1	4	5	5
1425:	4	7	3	8	4	3	5	4
1433:	4	1	6	0	3	4	4	4
1441:	3	4	3	6	2	7	6	8
1449:	3	2	4	4	1	4	3	2
1457:	3	8	21	102	121	48	18	4
1465:	4	5	5	4	3	3	2	5
1473:	1	2	0	4	4	6	3	0
1481:	8	2	8	4	3	2	4	5
1489:	5	4	3	3	3	3	5	3
1497:	2	2	2	6	3	0	3	3
1505:	5	5	9	12	16	17	5	6
1513:	8	8	3	5	4	5	4	4
1521:	1	7	1	3	3	8	3	3
1529:	5	4	0	2	1	3	2	2
1537:	4	6	4	6	6	3	7	5
1545:	7	2	2	2	5	2	3	2
1553:	3	5	3	2	6	3	3	0
1561:	4	4	4	3	0	5	1	0
1569:	2	3	3	4	1	2	2	6
1577:	4	5	1	2	1	4	4	6
1585:	4	1	1	14	3	0	3	5
1593:	4	5	2	4	1	2	8	8
1601:	0	6	0	6	1	2	0	1
1609:	3	2	3	2	3	3	3	4
1617:	2	6	2	2	0	5	3	0
1625:	3	2	2	2	1	3	1	1
1633:	2	1	1	2	0	4	3	1
1641:	2	6	2	0	2	1	3	1
1649:	4	2	5	3	2	1	3	1
1657:	5	2	0	3	6	7	4	0

1665:	2	0	3	3	1	1	2	2

Sample Title: FEEBRIS1D-13.093-094

Channel								
1673:	4	1	2	3	5	3	1	1
1681:	4	2	2	4	2	2	1	2
1689:	1	4	2	4	1	3	0	2
1697:	2	3	3	0	0	1	2	2
1705:	2	2	0	1	1	0	1	0
1713:	1	1	1	2	0	3	1	1
1721:	1	2	0	0	4	2	3	6
1729:	16	15	4	2	0	2	2	0
1737:	0	3	1	1	0	1	1	2
1745:	2	1	1	3	2	1	2	1
1753:	1	2	1	1	2	1	0	1
1761:	2	15	35	73	69	18	5	1
1769:	1	0	1	3	0	1	3	2
1777:	2	1	0	0	1	5	0	1
1785:	1	0	2	1	1	1	1	2
1793:	1	0	2	3	1	0	0	2
1801:	1	3	1	1	2	3	2	1
1809:	0	1	1	0	4	1	1	0
1817:	1	1	6	2	0	1	1	3
1825:	4	0	2	0	1	0	1	2
1833:	1	0	2	1	1	1	2	1
1841:	3	1	2	1	2	8	12	5
1849:	6	1	1	1	0	2	1	1
1857:	1	0	1	1	1	0	0	2
1865:	1	2	1	0	1	2	1	2
1873:	3	0	1	0	0	1	2	0
1881:	2	1	2	0	1	1	0	1
1889:	0	0	1	1	0	0	0	2
1897:	1	1	1	2	1	1	3	2
1905:	2	0	2	0	1	2	2	4
1913:	0	0	0	2	1	1	0	1
1921:	2	1	0	1	3	2	1	0
1929:	2	1	1	1	1	2	0	2
1937:	2	1	1	4	2	0	3	1
1945:	1	0	2	0	1	1	2	1
1953:	2	0	0	2	1	0	0	3
1961:	0	2	2	1	2	2	2	1
1969:	0	1	1	1	2	1	0	1
1977:	1	3	0	1	0	1	3	0
1985:	0	0	0	0	1	3	0	0
1993:	2	1	1	0	1	0	2	0
2001:	1	1	1	3	0	2	0	1
2009:	2	3	4	0	0	2	0	2
2017:	0	2	1	0	0	0	2	1
2025:	0	2	1	1	0	0	1	1
2033:	1	2	1	1	0	1	1	0
2041:	0	1	1	1	2	0	0	2
2049:	0	1	1	2	0	0	2	0
2057:	0	2	0	0	0	0	1	0
2065:	1	0	1	1	3	2	1	2
2073:	0	0	1	0	0	1	0	1
2081:	0	3	1	2	0	0	0	1
2089:	1	1	1	0	0	0	0	0

2097:	0	0	1	1	2	2	2	1

Sample Title: FEEBRIS1D-13.093-094

Channel								
2105:	0	3	0	0	1	0	0	0
2113:	4	2	0	2	3	6	11	0
2121:	1	2	2	1	2	2	1	0
2129:	0	0	0	1	2	0	1	1
2137:	1	0	0	2	0	1	1	0
2145:	0	1	1	0	1	0	0	2
2153:	0	1	0	2	0	2	0	0
2161:	2	0	1	0	1	0	1	0
2169:	1	0	0	4	0	0	0	0
2177:	0	1	1	2	0	0	0	1
2185:	1	0	2	2	0	1	1	1
2193:	3	0	0	0	1	2	0	1
2201:	1	10	25	18	4	3	0	0
2209:	0	4	2	1	2	1	2	0
2217:	1	0	0	0	0	1	1	1
2225:	0	1	0	1	0	0	5	1
2233:	0	1	0	1	0	0	0	1
2241:	1	0	0	2	0	0	0	1
2249:	0	0	1	1	2	1	0	0
2257:	2	0	0	0	3	1	0	0
2265:	0	0	0	0	0	1	0	1
2273:	0	1	2	0	3	0	1	1
2281:	0	1	0	0	0	0	1	0
2289:	1	0	1	3	1	2	1	2
2297:	0	0	1	1	1	0	1	0
2305:	0	1	1	1	0	0	0	0
2313:	0	1	0	0	2	0	0	0
2321:	1	0	0	1	1	1	1	0
2329:	0	1	0	0	1	2	0	0
2337:	1	1	2	1	0	1	0	1
2345:	1	0	0	0	1	0	0	0
2353:	1	1	0	1	0	1	0	0
2361:	0	1	0	0	0	0	0	0
2369:	1	0	1	0	0	1	0	0
2377:	0	1	0	0	1	0	1	0
2385:	0	1	0	1	0	0	1	3
2393:	0	0	0	3	0	0	0	0
2401:	0	0	1	0	0	2	1	1
2409:	0	0	0	1	1	0	0	1
2417:	0	0	1	0	2	3	0	0
2425:	0	1	1	1	1	0	0	0
2433:	1	2	1	1	1	0	1	1
2441:	1	0	2	2	1	6	10	5
2449:	2	1	0	0	1	2	1	1
2457:	0	0	2	0	1	0	2	0
2465:	0	1	2	0	0	1	1	0
2473:	0	0	0	0	2	0	0	0
2481:	1	0	0	1	0	0	2	0
2489:	0	0	0	1	1	0	0	0
2497:	0	0	1	0	0	2	1	0
2505:	0	0	0	0	0	0	0	1
2513:	0	0	0	0	0	1	1	0
2521:	1	0	1	1	0	0	0	1

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-13.093-094

Channel								
2537:	0	0	0	0	0	0	0	0
2545:	0	1	0	1	0	0	0	1
2553:	0	0	0	0	0	2	1	0
2561:	1	0	0	0	0	0	1	0
2569:	0	1	0	0	1	0	0	1
2577:	0	0	0	0	0	0	1	0
2585:	0	0	0	1	0	0	0	0
2593:	0	2	0	0	0	0	0	0
2601:	0	0	0	0	0	0	0	0
2609:	0	1	3	4	14	17	9	3
2617:	1	1	1	0	0	0	2	0
2625:	0	0	0	0	1	0	0	0
2633:	0	0	1	1	0	0	0	1
2641:	0	0	0	0	1	0	0	0
2649:	0	0	1	0	0	0	0	0
2657:	1	1	1	0	0	0	0	0
2665:	0	1	0	0	0	0	0	0
2673:	1	0	1	0	1	0	0	0
2681:	0	0	1	1	0	1	0	0
2689:	1	0	1	0	0	0	0	0
2697:	0	0	2	1	0	0	0	1
2705:	0	0	0	1	0	0	1	0
2713:	0	0	0	1	1	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	1	2	1	0
2737:	0	0	0	0	1	0	0	0
2745:	0	1	0	1	0	0	0	0
2753:	0	0	0	0	0	1	1	0
2761:	0	0	0	0	1	0	1	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	1	0	0	0	1	0
2785:	0	0	1	0	0	1	0	0
2793:	1	1	0	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	1	0	0	0	0	0	0	1
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	0	1	0	2
2833:	0	1	0	0	1	1	0	0
2841:	0	0	0	0	1	0	0	0
2849:	1	0	0	0	0	0	0	1
2857:	1	0	1	0	0	0	0	0
2865:	0	1	0	0	1	0	0	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	1	0	0	0	0	0
2897:	0	1	0	1	0	0	0	0
2905:	1	1	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	1	0	0	0	1	1	0	0
2937:	0	1	1	0	1	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-13.093-094

Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	1	0	0	0	1	1
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	2	1	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	1	1	0	0	0	0
3017:	2	0	0	0	0	1	0	1
3025:	0	0	0	0	0	1	0	0
3033:	0	0	0	1	0	0	0	0
3041:	0	0	0	0	0	1	0	1
3049:	0	0	0	0	0	0	0	0
3057:	0	0	2	0	0	0	0	0
3065:	0	0	0	0	0	1	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	1	0	0	0
3089:	0	0	1	0	0	0	0	0
3097:	0	0	1	1	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	1	1	0	0	1	0	0
3121:	0	0	0	0	1	1	0	0
3129:	0	0	0	0	0	1	0	0
3137:	0	0	0	0	0	0	1	0
3145:	0	0	0	0	2	0	0	0
3153:	0	0	0	0	1	0	1	1
3161:	0	0	0	0	0	0	0	1
3169:	1	1	0	0	0	0	0	0
3177:	0	0	0	0	1	0	0	0
3185:	1	1	0	0	0	0	1	0
3193:	0	0	0	0	0	1	0	0
3201:	0	0	0	0	0	0	0	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	0	0	0	1	0	0
3225:	0	0	0	0	0	0	1	0
3233:	1	0	0	0	0	0	0	0
3241:	0	1	0	0	0	0	0	0
3249:	0	0	0	1	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	0	1	0	1	0	0	0	0
3281:	1	0	0	0	0	0	1	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	2	0	2	0	0
3305:	0	0	0	0	0	1	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	1	0	0	0	1
3329:	0	0	0	0	1	0	0	0
3337:	0	0	0	0	0	1	0	1
3345:	0	1	0	0	1	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	1	0	0	0
3377:	1	1	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	1	0	0	0	1	0	1

Sample Title: FEEBRIS1D-13.093-094

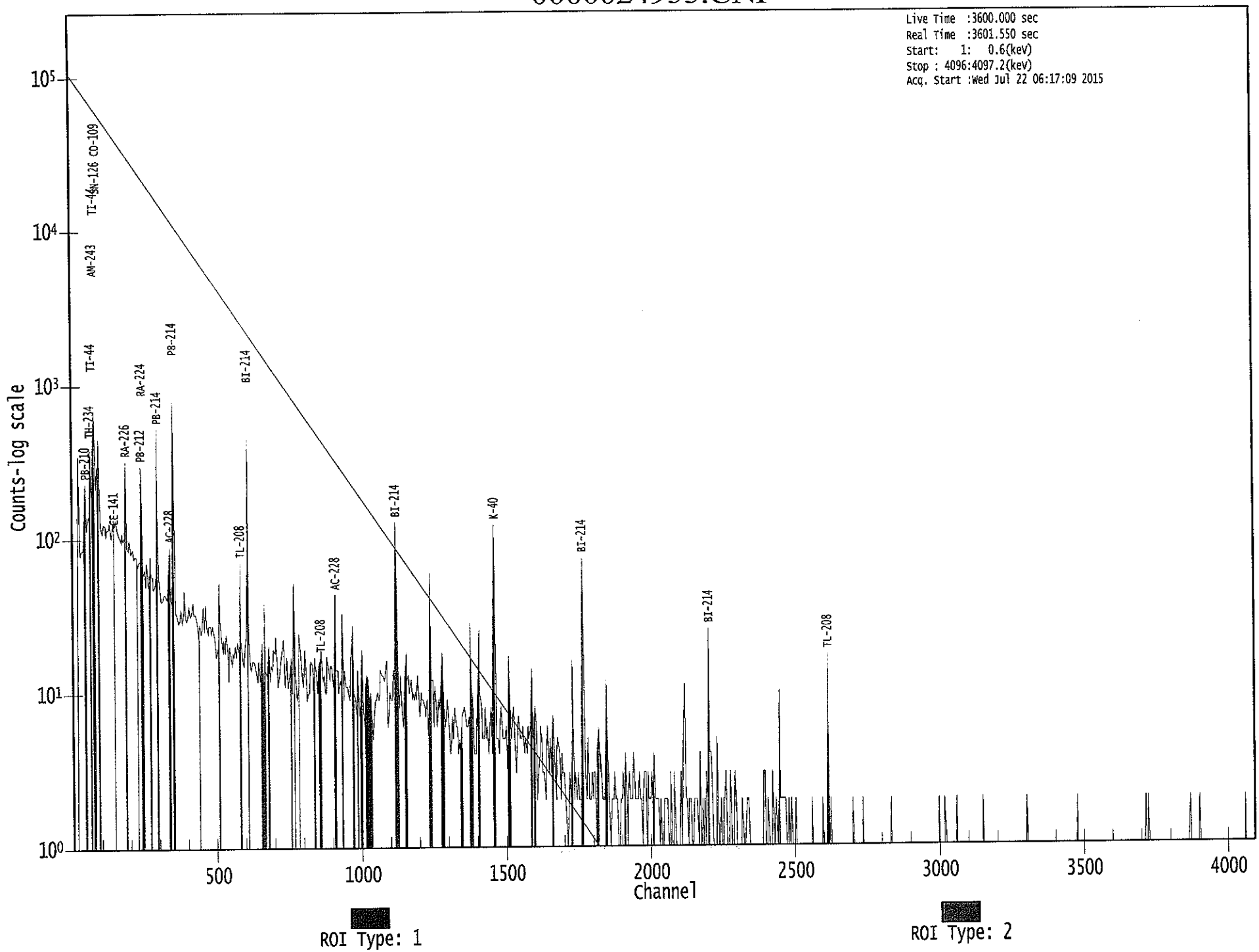
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	1	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	1	0	0	0	0	0	1
3433:	0	0	0	0	0	0	0	0
3441:	1	0	0	0	0	0	0	0
3449:	0	1	0	0	0	1	0	0
3457:	0	0	1	0	0	1	0	0
3465:	0	0	1	0	0	0	0	0
3473:	0	0	0	2	0	0	0	0
3481:	0	0	0	0	0	1	0	0
3489:	0	0	0	0	0	0	1	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	1
3513:	0	0	0	0	0	1	0	0
3521:	0	0	0	0	0	0	1	1
3529:	0	0	0	0	0	0	0	0
3537:	1	1	0	1	0	0	0	0
3545:	1	0	0	0	0	0	0	0
3553:	1	0	0	0	0	0	0	1
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	1	0	0	1	1	0	1	0
3585:	0	0	0	0	1	0	1	0
3593:	0	0	1	0	0	0	0	1
3601:	0	1	0	0	0	0	0	1
3609:	0	0	0	0	1	1	0	0
3617:	0	0	0	0	0	0	0	0
3625:	1	1	0	0	0	0	0	0
3633:	0	0	0	0	1	0	0	0
3641:	0	0	0	0	1	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	1	0	1	0	0	1	0	0
3673:	0	0	1	0	0	0	0	0
3681:	0	0	0	1	0	0	0	0
3689:	0	0	0	0	0	1	0	1
3697:	0	0	0	0	0	0	0	0
3705:	1	0	0	1	0	0	1	0
3713:	0	0	2	0	0	0	0	0
3721:	0	2	0	0	0	0	0	1
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	1	0	0
3753:	0	0	0	0	0	1	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	1	0	0	1	1
3777:	0	0	0	0	0	1	0	0
3785:	1	0	0	0	0	0	1	0
3793:	0	0	1	1	0	0	0	0
3801:	0	0	0	1	0	0	1	0
3809:	0	0	0	0	0	0	0	1
3817:	1	0	0	1	0	0	0	0

3825:	0	0	0	0	0	1	0	0

Sample Title: FEEBRIS1D-13.093-094

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	1	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	0	1	0	0	0	2	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	1	0	0	1	0	0	0
3889:	0	0	0	0	0	1	0	0
3897:	0	0	1	0	0	2	0	1
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	1	1	0	0	0
3929:	0	1	0	0	0	0	0	1
3937:	0	0	0	0	1	0	0	0
3945:	0	0	0	0	1	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	1	0
4033:	0	1	0	1	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	0	2	0	1	0	0
4065:	0	0	0	0	0	0	0	1
4073:	0	0	0	0	0	0	0	0
4081:	1	0	0	0	0	1	0	0
4089:	0	0	0	0	0	0	0	0

0000024955.CNF



Apex-Gamma

Analysis Report for 1506115-04
FEEBRIS1D-13.093-094

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1506115-04
Sample Description	: FEEBRIS1D-13.093-094
Sample Type	: SOIL
Sample Size	: 6.162E+02 grams
Facility	: Countroom
Sample Taken On	: 6/12/2015 11:21:46AM
Acquisition Started	: 7/22/2015 7:23:26AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.6 seconds
Dead Time	: 0.04 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 24960

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
7/22/15

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

PEAK LOCATE REPORT

Peak Locate Performed on : 7/22/2015 8:23:30AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.58	46.93	0.0000	0.00
2	63.38	63.73	0.0000	0.00
3	74.94	75.28	0.0000	0.00
4	77.54	77.88	0.0000	0.00
5	87.48	87.82	0.0000	0.00
6	92.96	93.29	0.0000	0.00
7	112.58	112.91	0.0000	0.00
8	186.44	186.74	0.0000	0.00
9	238.86	239.15	0.0000	0.00
10	242.39	242.68	0.0000	0.00
11	258.03	258.31	0.0000	0.00
12	269.74	270.02	0.0000	0.00
13	295.36	295.63	0.0000	0.00
14	338.69	338.94	0.0000	0.00
15	352.04	352.29	0.0000	0.00
16	389.33	389.56	0.0000	0.00
17	511.13	511.32	0.0000	0.00
18	561.64	561.82	0.0000	0.00
19	571.46	571.64	0.0000	0.00
20	583.46	583.63	0.0000	0.00
21	587.21	587.37	0.0000	0.00
22	609.40	609.56	0.0000	0.00
23	647.19	647.34	0.0000	0.00
24	767.59	767.69	0.0000	0.00
25	785.52	785.62	0.0000	0.00
26	860.29	860.36	0.0000	0.00
27	911.11	911.16	0.0000	0.00
28	934.30	934.35	0.0000	0.00
29	968.37	968.41	0.0000	0.00
30	1001.52	1001.54	0.0000	0.00
31	1120.52	1120.51	0.0000	0.00
32	1156.46	1156.42	0.0000	0.00
33	1238.41	1238.35	0.0000	0.00
34	1282.00	1281.93	0.0000	0.00
35	1377.42	1377.31	0.0000	0.00
36	1401.84	1401.72	0.0000	0.00
37	1407.87	1407.75	0.0000	0.00
38	1414.73	1414.61	0.0000	0.00
39	1452.26	1452.12	0.0000	0.00
40	1460.87	1460.73	0.0000	0.00
41	1502.20	1502.04	0.0000	0.00
42	1509.43	1509.27	0.0000	0.00

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1512.43	1512.27	0.0000	0.00
44	1535.39	1535.22	0.0000	0.00
45	1539.65	1539.48	0.0000	0.00
46	1588.93	1588.74	0.0000	0.00
47	1593.75	1593.56	0.0000	0.00
48	1661.22	1661.01	0.0000	0.00
49	1693.46	1693.23	0.0000	0.00
50	1729.67	1729.43	0.0000	0.00
51	1764.56	1764.31	0.0000	0.00
52	1817.70	1817.43	0.0000	0.00
53	1838.67	1838.38	0.0000	0.00
54	1847.28	1846.99	0.0000	0.00
55	1875.92	1875.62	0.0000	0.00
56	1897.58	1897.27	0.0000	0.00
57	2118.92	2118.53	0.0000	0.00
58	2203.81	2203.39	0.0000	0.00
59	2446.66	2446.14	0.0000	0.00
60	2613.78	2613.20	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 8:23:30AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.58	44 -	50	46.93	2.00E+02	89.13	1.31E+03	1.37
m	2	63.38	59 -	67	63.73	3.00E+02	91.08	1.59E+03	1.55
M	3	74.94	72 -	83	75.28	4.93E+02	106.86	1.78E+03	1.60
m	4	77.54	72 -	83	77.88	7.83E+02	115.70	1.79E+03	1.61
	5	87.48	86 -	90	87.82	1.14E+02	96.26	1.96E+03	1.48
	6	92.96	90 -	97	93.29	5.58E+02	129.26	2.32E+03	1.54
	7	112.58	110 -	115	112.91	7.90E+01	76.98	1.12E+03	2.31
	8	186.44	183 -	192	186.74	5.81E+02	114.28	1.52E+03	2.04
M	9	238.86	235 -	249	239.15	4.22E+02	70.03	6.51E+02	1.85
m	10	242.39	235 -	249	242.68	4.93E+02	72.77	5.77E+02	1.85
	11	258.03	255 -	261	258.31	6.09E+01	60.20	6.12E+02	3.73
	12	269.74	266 -	274	270.02	8.90E+01	75.00	8.12E+02	1.93
	13	295.36	291 -	299	295.63	9.04E+02	96.23	8.68E+02	1.83
	14	338.69	336 -	342	338.94	6.05E+01	54.29	4.89E+02	1.51
	15	352.04	348 -	356	352.29	1.59E+03	99.12	5.35E+02	1.77
	16	389.33	386 -	393	389.56	5.06E+01	51.07	3.87E+02	3.91
	17	511.13	507 -	516	511.32	1.39E+02	51.86	3.04E+02	2.83
	18	561.64	558 -	565	561.82	3.40E+01	34.53	1.76E+02	3.79
	19	571.46	568 -	575	571.64	3.14E+01	36.66	2.01E+02	3.67
M	20	583.46	578 -	591	583.63	1.56E+02	36.25	1.46E+02	2.16
m	21	587.21	578 -	591	587.37	2.77E+01	32.77	1.12E+02	2.16
	22	609.40	607 -	613	609.56	1.16E+03	75.93	2.12E+02	2.01
	23	647.19	643 -	652	647.34	3.86E+01	36.58	1.67E+02	3.34
	24	767.59	762 -	772	767.69	1.33E+02	43.52	1.82E+02	2.05
	25	785.52	782 -	789	785.62	4.56E+01	27.57	9.67E+01	1.40
	26	860.29	857 -	864	860.36	3.68E+01	26.53	9.43E+01	2.60
	27	911.11	907 -	916	911.16	6.76E+01	37.20	1.57E+02	1.82
	28	934.30	930 -	940	934.35	7.56E+01	36.97	1.39E+02	2.37
	29	968.37	964 -	972	968.41	6.19E+01	33.94	1.38E+02	1.55
	30	1001.52	998 -	1006	1001.54	3.12E+01	29.09	1.08E+02	2.49
	31	1120.52	1117 -	1126	1120.51	2.47E+02	40.17	8.72E+01	1.99
	32	1156.46	1152 -	1163	1156.42	3.82E+01	34.70	1.30E+02	2.36
	33	1238.41	1233 -	1242	1238.35	9.09E+01	32.62	1.00E+02	1.52
	34	1282.00	1277 -	1286	1281.93	3.79E+01	27.07	7.81E+01	1.65
	35	1377.42	1373 -	1381	1377.31	5.80E+01	26.46	7.20E+01	2.40
M	36	1401.84	1397 -	1411	1401.72	1.93E+01	19.35	4.79E+01	2.89
m	37	1407.87	1397 -	1411	1407.75	4.61E+01	21.59	3.50E+01	2.87
	38	1414.73	1412 -	1417	1414.61	1.68E+01	11.87	1.45E+01	1.56
	39	1452.26	1447 -	1456	1452.12	1.81E+01	21.33	5.37E+01	1.51
	40	1460.87	1456 -	1465	1460.73	3.27E+02	43.22	8.08E+01	2.31

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	1502.20	1497 -	1516	1502.04	1.60E+01	18.72	5.48E+01	2.94
m	42	1509.43	1497 -	1516	1509.27	3.21E+01	19.60	3.66E+01	2.72
m	43	1512.43	1497 -	1516	1512.27	1.21E+01	20.65	3.26E+01	2.95
M	44	1535.39	1534 -	1545	1535.22	9.47E+00	7.47	1.17E+01	2.45
m	45	1539.65	1534 -	1545	1539.48	2.13E+01	18.38	3.17E+01	2.96
M	46	1588.93	1577 -	1598	1588.74	1.10E+01	15.40	2.22E+01	2.99
m	47	1593.75	1577 -	1598	1593.56	1.83E+01	15.79	1.99E+01	2.99
	48	1661.22	1656 -	1664	1661.01	1.46E+01	15.28	2.67E+01	3.09
	49	1693.46	1687 -	1699	1693.23	1.30E+01	16.52	2.60E+01	3.75
	50	1729.67	1724 -	1735	1729.43	5.18E+01	22.27	3.65E+01	2.09
	51	1764.56	1759 -	1770	1764.31	2.30E+02	33.41	2.52E+01	2.56
	52	1817.70	1814 -	1820	1817.43	7.00E+00	5.29	0.00E+00	3.00
M	53	1838.67	1833 -	1851	1838.38	8.63E+00	12.70	2.53E+01	3.11
m	54	1847.28	1833 -	1851	1846.99	2.41E+01	16.04	2.13E+01	3.11
	55	1875.92	1870 -	1883	1875.62	1.22E+01	15.33	1.97E+01	6.94
	56	1897.58	1893 -	1900	1897.27	1.10E+01	6.63	0.00E+00	3.32
	57	2118.92	2115 -	2121	2118.53	1.13E+01	8.02	3.38E+00	1.24
	58	2203.81	2199 -	2207	2203.39	4.74E+01	16.64	1.33E+01	1.59
	59	2446.66	2443 -	2448	2446.14	1.06E+01	7.55	2.83E+00	1.31
	60	2613.78	2609 -	2616	2613.20	3.41E+01	12.65	3.78E+00	2.96

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/22/2015 8:23:30AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.58	44 -	50	2.00E+02	89.13	1.31E+03	6.95E+01
m	2	63.38	59 -	67	3.00E+02	91.08	1.59E+03	6.56E+01
M	3	74.94	72 -	83	4.93E+02	106.86	1.78E+03	6.93E+01
m	4	77.54	72 -	83	7.83E+02	115.70	1.79E+03	6.95E+01
	5	87.48	86 -	90	1.14E+02	96.26	1.96E+03	7.72E+01
	6	92.96	90 -	97	5.58E+02	129.26	2.32E+03	9.89E+01
	7	112.58	110 -	115	7.90E+01	76.98	1.12E+03	6.16E+01
	8	186.44	183 -	192	5.81E+02	114.28	1.52E+03	8.52E+01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	9	238.86	235 -	249	4.22E+02	70.03	6.51E+02	4.20E+01
m	10	242.39	235 -	249	4.93E+02	72.77	5.77E+02	3.95E+01
	11	258.03	255 -	261	6.09E+01	60.20	6.12E+02	4.78E+01
	12	269.74	266 -	274	8.90E+01	75.00	8.12E+02	5.97E+01
	13	295.36	291 -	299	9.04E+02	96.23	8.68E+02	6.18E+01
	14	338.69	336 -	342	6.05E+01	54.29	4.89E+02	4.28E+01
	15	352.04	348 -	356	1.59E+03	99.12	5.35E+02	4.85E+01
	16	389.33	386 -	393	5.06E+01	51.07	3.87E+02	4.03E+01
	17	511.13	507 -	516	1.39E+02	51.86	3.04E+02	3.80E+01
	18	561.64	558 -	565	3.40E+01	34.53	1.76E+02	2.67E+01
	19	571.46	568 -	575	3.14E+01	36.66	2.01E+02	2.87E+01
M	20	583.46	578 -	591	1.56E+02	36.25	1.46E+02	1.99E+01
m	21	587.21	578 -	591	2.77E+01	32.77	1.12E+02	1.74E+01
	22	609.40	607 -	613	1.16E+03	75.93	2.12E+02	2.74E+01
	23	647.19	643 -	652	3.86E+01	36.58	1.67E+02	2.83E+01
	24	767.59	762 -	772	1.33E+02	43.52	1.82E+02	3.03E+01
	25	785.52	782 -	789	4.56E+01	27.57	9.67E+01	1.98E+01
	26	860.29	857 -	864	3.68E+01	26.53	9.43E+01	1.94E+01
	27	911.11	907 -	916	6.76E+01	37.20	1.57E+02	2.74E+01
	28	934.30	930 -	940	7.56E+01	36.97	1.39E+02	2.68E+01
	29	968.37	964 -	972	6.19E+01	33.94	1.38E+02	2.47E+01
	30	1001.52	998 -	1006	3.12E+01	29.09	1.08E+02	2.21E+01
	31	1120.52	1117 -	1126	2.47E+02	40.17	8.72E+01	2.05E+01
	32	1156.46	1152 -	1163	3.82E+01	34.70	1.30E+02	1.46E+01
	33	1238.41	1233 -	1242	9.09E+01	32.62	1.00E+02	2.18E+01
	34	1282.00	1277 -	1286	3.79E+01	27.07	7.81E+01	1.98E+01
	35	1377.42	1373 -	1381	5.80E+01	26.46	7.20E+01	1.78E+01
M	36	1401.84	1397 -	1411	1.93E+01	19.35	4.79E+01	1.14E+01
m	37	1407.87	1397 -	1411	4.61E+01	21.59	3.50E+01	9.72E+00
	38	1414.73	1412 -	1417	1.68E+01	11.87	1.45E+01	7.07E+00
	39	1452.26	1447 -	1456	1.81E+01	21.33	5.37E+01	1.61E+01
	40	1460.87	1456 -	1465	3.27E+02	43.22	8.08E+01	1.95E+01
M	41	1502.20	1497 -	1516	1.60E+01	18.72	5.48E+01	1.22E+01
m	42	1509.43	1497 -	1516	3.21E+01	19.60	3.66E+01	9.95E+00
m	43	1512.43	1497 -	1516	1.21E+01	20.65	3.26E+01	9.39E+00
M	44	1535.39	1534 -	1545	9.47E+00	7.47	1.17E+01	5.62E+00
m	45	1539.65	1534 -	1545	2.13E+01	18.38	3.17E+01	9.26E+00
M	46	1588.93	1577 -	1598	1.10E+01	15.40	2.22E+01	7.75E+00
m	47	1593.75	1577 -	1598	1.83E+01	15.79	1.99E+01	7.33E+00
	48	1661.22	1656 -	1664	1.46E+01	15.28	2.67E+01	1.09E+01
	49	1693.46	1687 -	1699	1.30E+01	16.52	2.60E+01	1.22E+01
	50	1729.67	1724 -	1735	5.18E+01	22.27	3.65E+01	1.40E+01
	51	1764.56	1759 -	1770	2.30E+02	33.41	2.52E+01	1.15E+01
	52	1817.70	1814 -	1820	7.00E+00	5.29	0.00E+00	0.00E+00
M	53	1838.67	1833 -	1851	8.63E+00	12.70	2.53E+01	8.28E+00
m	54	1847.28	1833 -	1851	2.41E+01	16.04	2.13E+01	7.60E+00
	55	1875.92	1870 -	1883	1.22E+01	15.33	1.97E+01	1.12E+01
	56	1897.58	1893 -	1900	1.10E+01	6.63	0.00E+00	0.00E+00
	57	2118.92	2115 -	2121	1.13E+01	8.02	3.38E+00	3.58E+00
	58	2203.81	2199 -	2207	4.74E+01	16.64	1.33E+01	7.68E+00
	59	2446.66	2443 -	2448	1.06E+01	7.55	2.83E+00	3.15E+00

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
60	2613.78	2609 -	2616	3.41E+01	12.65	3.78E+00	3.99E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/22/2015 8:23:30AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.58	44 -	50	46.93	2.00E+02	89.13	1.31E+03	PB-210
m	2	63.38	59 -	67	63.73	3.00E+02	91.08	1.59E+03	TH-234
									TH-230
M	3	74.94	72 -	83	75.28	4.93E+02	106.86	1.78E+03	AM-243
m	4	77.54	72 -	83	77.88	7.83E+02	115.70	1.79E+03	TI-44
	5	87.48	86 -	90	87.82	1.14E+02	96.26	1.96E+03	SN-126
									CD-109
									LU-176
									NP-237
									EU-155
	6	92.96	90 -	97	93.29	5.58E+02	129.26	2.32E+03	GA-67
	7	112.58	110 -	115	112.91	7.90E+01	76.98	1.12E+03	.....
	8	186.44	183 -	192	186.74	5.81E+02	114.28	1.52E+03	RA-226
M	9	238.86	235 -	249	239.15	4.22E+02	70.03	6.51E+02	PB-212
m	10	242.39	235 -	249	242.68	4.93E+02	72.77	5.77E+02	.....
	11	258.03	255 -	261	258.31	6.09E+01	60.20	6.12E+02	.....
	12	269.74	266 -	274	270.02	8.90E+01	75.00	8.12E+02	.....
	13	295.36	291 -	299	295.63	9.04E+02	96.23	8.68E+02	PB-214
	14	338.69	336 -	342	338.94	6.05E+01	54.29	4.89E+02	AC-228
	15	352.04	348 -	356	352.29	1.59E+03	99.12	5.35E+02	PB-214
	16	389.33	386 -	393	389.56	5.06E+01	51.07	3.87E+02	.....
	17	511.13	507 -	516	511.32	1.39E+02	51.86	3.04E+02	.....
	18	561.64	558 -	565	561.82	3.40E+01	34.53	1.76E+02	.....
	19	571.46	568 -	575	571.64	3.14E+01	36.66	2.01E+02	.....
M	20	583.46	578 -	591	583.63	1.56E+02	36.25	1.46E+02	TL-208

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
m	21	587.21	578 -	591	587.37	2.77E+01	32.77	1.12E+02	.....
	22	609.40	607 -	613	609.56	1.16E+03	75.93	2.12E+02	BI-214
	23	647.19	643 -	652	647.34	3.86E+01	36.58	1.67E+02	.....
	24	767.59	762 -	772	767.69	1.33E+02	43.52	1.82E+02	.....
	25	785.52	782 -	789	785.62	4.56E+01	27.57	9.67E+01	.....
	26	860.29	857 -	864	860.36	3.68E+01	26.53	9.43E+01	TL-208
	27	911.11	907 -	916	911.16	6.76E+01	37.20	1.57E+02	AC-228
	28	934.30	930 -	940	934.35	7.56E+01	36.97	1.39E+02	.....
	29	968.37	964 -	972	968.41	6.19E+01	33.94	1.38E+02	AC-228
	30	1001.52	998 -	1006	1001.54	3.12E+01	29.09	1.08E+02	PA-234M
	31	1120.52	1117 -	1126	1120.51	2.47E+02	40.17	8.72E+01	SC-46 BI-214 TA-182
	32	1156.46	1152 -	1163	1156.42	3.82E+01	34.70	1.30E+02	.....
	33	1238.41	1233 -	1242	1238.35	9.09E+01	32.62	1.00E+02	CO-56
	34	1282.00	1277 -	1286	1281.93	3.79E+01	27.07	7.81E+01	.....
	35	1377.42	1373 -	1381	1377.31	5.80E+01	26.46	7.20E+01	.....
M	36	1401.84	1397 -	1411	1401.72	1.93E+01	19.35	4.79E+01	.....
m	37	1407.87	1397 -	1411	1407.75	4.61E+01	21.59	3.50E+01	EU-152
	38	1414.73	1412 -	1417	1414.61	1.68E+01	11.87	1.45E+01	.....
	39	1452.26	1447 -	1456	1452.12	1.81E+01	21.33	5.37E+01	.....
	40	1460.87	1456 -	1465	1460.73	3.27E+02	43.22	8.08E+01	K-40
M	41	1502.20	1497 -	1516	1502.04	1.60E+01	18.72	5.48E+01	.....
m	42	1509.43	1497 -	1516	1509.27	3.21E+01	19.60	3.66E+01	.....
m	43	1512.43	1497 -	1516	1512.27	1.21E+01	20.65	3.26E+01	.....
M	44	1535.39	1534 -	1545	1535.22	9.47E+00	7.47	1.17E+01	.....
m	45	1539.65	1534 -	1545	1539.48	2.13E+01	18.38	3.17E+01	.....
M	46	1588.93	1577 -	1598	1588.74	1.10E+01	15.40	2.22E+01	.....
m	47	1593.75	1577 -	1598	1593.56	1.83E+01	15.79	1.99E+01	.....
	48	1661.22	1656 -	1664	1661.01	1.46E+01	15.28	2.67E+01	.....
	49	1693.46	1687 -	1699	1693.23	1.30E+01	16.52	2.60E+01	.....
	50	1729.67	1724 -	1735	1729.43	5.18E+01	22.27	3.65E+01	.....
	51	1764.56	1759 -	1770	1764.31	2.30E+02	33.41	2.52E+01	BI-214
	52	1817.70	1814 -	1820	1817.43	7.00E+00	5.29	0.00E+00	.....
M	53	1838.67	1833 -	1851	1838.38	8.63E+00	12.70	2.53E+01	.....
m	54	1847.28	1833 -	1851	1846.99	2.41E+01	16.04	2.13E+01	.....
	55	1875.92	1870 -	1883	1875.62	1.22E+01	15.33	1.97E+01	.....
	56	1897.58	1893 -	1900	1897.27	1.10E+01	6.63	0.00E+00	.....
	57	2118.92	2115 -	2121	2118.53	1.13E+01	8.02	3.38E+00	.....
	58	2203.81	2199 -	2207	2203.39	4.74E+01	16.64	1.33E+01	BI-214
	59	2446.66	2443 -	2448	2446.14	1.06E+01	7.55	2.83E+00	.....
	60	2613.78	2609 -	2616	2613.20	3.41E+01	12.65	3.78E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/22/2015 8:23:30AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.58	2.00E+02	89.13	1.68E-02	1.78E-03
m	2	63.38	3.00E+02	91.08	2.49E-02	1.91E-03
M	3	74.94	4.93E+02	106.86	2.75E-02	2.30E-03
m	4	77.54	7.83E+02	115.70	2.78E-02	2.39E-03
	5	87.48	1.14E+02	96.26	2.85E-02	2.72E-03
	6	92.96	5.58E+02	129.26	2.86E-02	2.64E-03
	7	112.58	7.90E+01	76.98	2.79E-02	2.26E-03
	8	186.44	5.81E+02	114.28	2.24E-02	2.02E-03
M	9	238.86	4.22E+02	70.03	1.92E-02	1.64E-03
m	10	242.39	4.93E+02	72.77	1.90E-02	1.61E-03
	11	258.03	6.09E+01	60.20	1.83E-02	1.50E-03
	12	269.74	8.90E+01	75.00	1.77E-02	1.41E-03
	13	295.36	9.04E+02	96.23	1.67E-02	1.31E-03
	14	338.69	6.05E+01	54.29	1.52E-02	1.22E-03
	15	352.04	1.59E+03	99.12	1.48E-02	1.19E-03
	16	389.33	5.06E+01	51.07	1.37E-02	1.12E-03
	17	511.13	1.39E+02	51.86	1.12E-02	9.90E-04
	18	561.64	3.40E+01	34.53	1.05E-02	9.38E-04
	19	571.46	3.14E+01	36.66	1.03E-02	9.28E-04
M	20	583.46	1.56E+02	36.25	1.02E-02	9.15E-04
m	21	587.21	2.77E+01	32.77	1.01E-02	9.11E-04
	22	609.40	1.16E+03	75.93	9.83E-03	8.88E-04
	23	647.19	3.86E+01	36.58	9.38E-03	8.49E-04
	24	767.59	1.33E+02	43.52	8.20E-03	7.39E-04
	25	785.52	4.56E+01	27.57	8.05E-03	7.23E-04
	26	860.29	3.68E+01	26.53	7.48E-03	6.56E-04
	27	911.11	6.76E+01	37.20	7.15E-03	6.16E-04
	28	934.30	7.56E+01	36.97	7.01E-03	6.03E-04
	29	968.37	6.19E+01	33.94	6.81E-03	5.86E-04
	30	1001.52	3.12E+01	29.09	6.63E-03	5.68E-04
	31	1120.52	2.47E+02	40.17	6.07E-03	5.07E-04
	32	1156.46	3.82E+01	34.70	5.92E-03	4.88E-04
	33	1238.41	9.09E+01	32.62	5.61E-03	4.68E-04
	34	1282.00	3.79E+01	27.07	5.47E-03	4.60E-04
	35	1377.42	5.80E+01	26.46	5.18E-03	4.40E-04
M	36	1401.84	1.93E+01	19.35	5.12E-03	4.34E-04
m	37	1407.87	4.61E+01	21.59	5.10E-03	4.32E-04
	38	1414.73	1.68E+01	11.87	5.09E-03	4.31E-04
	39	1452.26	1.81E+01	21.33	4.99E-03	4.21E-04
	40	1460.87	3.27E+02	43.22	4.97E-03	4.19E-04
M	41	1502.20	1.60E+01	18.72	4.87E-03	4.09E-04
m	42	1509.43	3.21E+01	19.60	4.86E-03	4.07E-04
m	43	1512.43	1.21E+01	20.65	4.85E-03	4.06E-04
M	44	1535.39	9.47E+00	7.47	4.80E-03	4.01E-04
m	45	1539.65	2.13E+01	18.38	4.79E-03	4.00E-04

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	46	1588.93	1.10E+01	15.40	4.69E-03	3.87E-04
m	47	1593.75	1.83E+01	15.79	4.68E-03	3.86E-04
	48	1661.22	1.46E+01	15.28	4.56E-03	3.69E-04
	49	1693.46	1.30E+01	16.52	4.51E-03	3.61E-04
	50	1729.67	5.18E+01	22.27	4.45E-03	3.52E-04
	51	1764.56	2.30E+02	33.41	4.40E-03	3.44E-04
	52	1817.70	7.00E+00	5.29	4.32E-03	3.30E-04
M	53	1838.67	8.63E+00	12.70	4.29E-03	3.26E-04
m	54	1847.28	2.41E+01	16.04	4.28E-03	3.26E-04
	55	1875.92	1.22E+01	15.33	4.25E-03	3.26E-04
	56	1897.58	1.10E+01	6.63	4.22E-03	3.26E-04
	57	2118.92	1.13E+01	8.02	4.01E-03	3.26E-04
	58	2203.81	4.74E+01	16.64	3.95E-03	3.26E-04
	59	2446.66	1.06E+01	7.55	3.83E-03	3.26E-04
	60	2613.78	3.41E+01	12.65	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/22/2015 8:23:30AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.58	2.00E+02	89.13	4.67E+01	7.87E+00	1.54E+02	8.95E+01
m	2	63.38	3.00E+02	91.08	1.06E+02	2.53E+01	1.93E+02	9.45E+01
M	3	74.94	4.93E+02	106.86			4.93E+02	1.07E+02
m	4	77.54	7.83E+02	115.70	1.37E+01	4.21E+00	7.69E+02	1.16E+02
	5	87.48	1.14E+02	96.26			1.14E+02	9.63E+01
	6	92.96	5.58E+02	129.26	1.40E+02	3.42E+01	4.18E+02	1.34E+02
	7	112.58	7.90E+01	76.98	9.55E+00	7.56E+00	6.94E+01	7.74E+01
	8	186.44	5.81E+02	114.28	6.17E+01	7.27E+00	5.19E+02	1.15E+02
M	9	238.86	4.22E+02	70.03	1.90E+01	5.64E+00	4.03E+02	7.03E+01
m	10	242.39	4.93E+02	72.77			4.93E+02	7.28E+01
	11	258.03	6.09E+01	60.20			6.09E+01	6.02E+01
	12	269.74	8.90E+01	75.00			8.90E+01	7.50E+01
	13	295.36	9.04E+02	96.23	3.06E+00	4.82E+00	9.01E+02	9.64E+01
	14	338.69	6.05E+01	54.29			6.05E+01	5.43E+01
	15	352.04	1.59E+03	99.12	1.06E+01	4.49E+00	1.58E+03	9.92E+01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	16	389.33	5.06E+01	51.07			5.06E+01	5.11E+01
	17	511.13	1.39E+02	51.86	8.80E+01	5.43E+00	5.08E+01	5.21E+01
	18	561.64	3.40E+01	34.53			3.40E+01	3.45E+01
	19	571.46	3.14E+01	36.66			3.14E+01	3.67E+01
M	20	583.46	1.56E+02	36.25	3.96E+00	4.13E+00	1.52E+02	3.65E+01
m	21	587.21	2.77E+01	32.77			2.77E+01	3.28E+01
	22	609.40	1.16E+03	75.93	8.00E+00	4.15E+00	1.16E+03	7.60E+01
	23	647.19	3.86E+01	36.58			3.86E+01	3.66E+01
	24	767.59	1.33E+02	43.52	1.68E+00	3.23E+00	1.32E+02	4.36E+01
	25	785.52	4.56E+01	27.57			4.56E+01	2.76E+01
	26	860.29	3.68E+01	26.53			3.68E+01	2.65E+01
	27	911.11	6.76E+01	37.20	3.29E+00	3.12E+00	6.43E+01	3.73E+01
	28	934.30	7.56E+01	36.97			7.56E+01	3.70E+01
	29	968.37	6.19E+01	33.94			6.19E+01	3.39E+01
	30	1001.52	3.12E+01	29.09	7.17E+00	2.67E+00	2.40E+01	2.92E+01
	31	1120.52	2.47E+02	40.17			2.47E+02	4.02E+01
	32	1156.46	3.82E+01	34.70			3.82E+01	3.47E+01
	33	1238.41	9.09E+01	32.62			9.09E+01	3.26E+01
	34	1282.00	3.79E+01	27.07			3.79E+01	2.71E+01
	35	1377.42	5.80E+01	26.46			5.80E+01	2.65E+01
M	36	1401.84	1.93E+01	19.35			1.93E+01	1.93E+01
m	37	1407.87	4.61E+01	21.59			4.61E+01	2.16E+01
	38	1414.73	1.68E+01	11.87			1.68E+01	1.19E+01
	39	1452.26	1.81E+01	21.33			1.81E+01	2.13E+01
	40	1460.87	3.27E+02	43.22	5.51E+00	2.16E+00	3.21E+02	4.33E+01
M	41	1502.20	1.60E+01	18.72			1.60E+01	1.87E+01
m	42	1509.43	3.21E+01	19.60			3.21E+01	1.96E+01
m	43	1512.43	1.21E+01	20.65			1.21E+01	2.07E+01
M	44	1535.39	9.47E+00	7.47			9.47E+00	7.47E+00
m	45	1539.65	2.13E+01	18.38			2.13E+01	1.84E+01
M	46	1588.93	1.10E+01	15.40			1.10E+01	1.54E+01
m	47	1593.75	1.83E+01	15.79			1.83E+01	1.58E+01
	48	1661.22	1.46E+01	15.28			1.46E+01	1.53E+01
	49	1693.46	1.30E+01	16.52			1.30E+01	1.65E+01
	50	1729.67	5.18E+01	22.27			5.18E+01	2.23E+01
	51	1764.56	2.30E+02	33.41	1.06E+00	1.86E+00	2.29E+02	3.35E+01
	52	1817.70	7.00E+00	5.29			7.00E+00	5.29E+00
M	53	1838.67	8.63E+00	12.70			8.63E+00	1.27E+01
m	54	1847.28	2.41E+01	16.04			2.41E+01	1.60E+01
	55	1875.92	1.22E+01	15.33			1.22E+01	1.53E+01
	56	1897.58	1.10E+01	6.63			1.10E+01	6.63E+00
	57	2118.92	1.13E+01	8.02			1.13E+01	8.02E+00
	58	2203.81	4.74E+01	16.64			4.74E+01	1.66E+01
	59	2446.66	1.06E+01	7.55			1.06E+01	7.55E+00
	60	2613.78	3.41E+01	12.65	3.94E+00	1.34E+00	3.02E+01	1.27E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/22/2015 8:23:30AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.58	2.00E+02	89.13	4.67E+01	7.87E+00	1.54E+02	8.95E+01
m	2	63.38	3.00E+02	91.08	1.06E+02	2.53E+01	1.93E+02	9.45E+01
M	3	74.94	4.93E+02	106.86			4.93E+02	1.07E+02
m	4	77.54	7.83E+02	115.70	1.37E+01	4.21E+00	7.69E+02	1.16E+02
	5	87.48	1.14E+02	96.26			1.14E+02	9.63E+01
	6	92.96	5.58E+02	129.26	1.40E+02	3.42E+01	4.18E+02	1.34E+02
	7	112.58	7.90E+01	76.98	9.55E+00	7.56E+00	6.94E+01	7.74E+01
	8	186.44	5.81E+02	114.28	6.17E+01	7.27E+00	5.19E+02	1.15E+02
M	9	238.86	4.22E+02	70.03	1.90E+01	5.64E+00	4.03E+02	7.03E+01
m	10	242.39	4.93E+02	72.77			4.93E+02	7.28E+01
	11	258.03	6.09E+01	60.20			6.09E+01	6.02E+01
	12	269.74	8.90E+01	75.00			8.90E+01	7.50E+01
	13	295.36	9.04E+02	96.23	3.06E+00	4.82E+00	9.01E+02	9.64E+01
	14	338.69	6.05E+01	54.29			6.05E+01	5.43E+01
	15	352.04	1.59E+03	99.12	1.06E+01	4.49E+00	1.58E+03	9.92E+01
	16	389.33	5.06E+01	51.07			5.06E+01	5.11E+01
	17	511.13	1.39E+02	51.86	8.80E+01	5.43E+00	5.08E+01	5.21E+01
	18	561.64	3.40E+01	34.53			3.40E+01	3.45E+01
	19	571.46	3.14E+01	36.66			3.14E+01	3.67E+01
M	20	583.46	1.56E+02	36.25	3.96E+00	4.13E+00	1.52E+02	3.65E+01
m	21	587.21	2.77E+01	32.77			2.77E+01	3.28E+01
	22	609.40	1.16E+03	75.93	8.00E+00	4.15E+00	1.16E+03	7.60E+01
	23	647.19	3.86E+01	36.58			3.86E+01	3.66E+01
	24	767.59	1.33E+02	43.52	1.68E+00	3.23E+00	1.32E+02	4.36E+01
	25	785.52	4.56E+01	27.57			4.56E+01	2.76E+01
	26	860.29	3.68E+01	26.53			3.68E+01	2.65E+01
	27	911.11	6.76E+01	37.20	3.29E+00	3.12E+00	6.43E+01	3.73E+01
	28	934.30	7.56E+01	36.97			7.56E+01	3.70E+01
	29	968.37	6.19E+01	33.94			6.19E+01	3.39E+01
	30	1001.52	3.12E+01	29.09	7.17E+00	2.67E+00	2.40E+01	2.92E+01
	31	1120.52	2.47E+02	40.17			2.47E+02	4.02E+01
	32	1156.46	3.82E+01	34.70			3.82E+01	3.47E+01
	33	1238.41	9.09E+01	32.62			9.09E+01	3.26E+01
	34	1282.00	3.79E+01	27.07			3.79E+01	2.71E+01
	35	1377.42	5.80E+01	26.46			5.80E+01	2.65E+01
M	36	1401.84	1.93E+01	19.35			1.93E+01	1.93E+01
m	37	1407.87	4.61E+01	21.59			4.61E+01	2.16E+01
	38	1414.73	1.68E+01	11.87			1.68E+01	1.19E+01
	39	1452.26	1.81E+01	21.33			1.81E+01	2.13E+01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	40	1460.87	3.27E+02	43.22	5.51E+00	2.16E+00	3.21E+02	4.33E+01
M	41	1502.20	1.60E+01	18.72			1.60E+01	1.87E+01
m	42	1509.43	3.21E+01	19.60			3.21E+01	1.96E+01
m	43	1512.43	1.21E+01	20.65			1.21E+01	2.07E+01
M	44	1535.39	9.47E+00	7.47			9.47E+00	7.47E+00
m	45	1539.65	2.13E+01	18.38			2.13E+01	1.84E+01
M	46	1588.93	1.10E+01	15.40			1.10E+01	1.54E+01
m	47	1593.75	1.83E+01	15.79			1.83E+01	1.58E+01
	48	1661.22	1.46E+01	15.28			1.46E+01	1.53E+01
	49	1693.46	1.30E+01	16.52			1.30E+01	1.65E+01
	50	1729.67	5.18E+01	22.27			5.18E+01	2.23E+01
	51	1764.56	2.30E+02	33.41	1.06E+00	1.86E+00	2.29E+02	3.35E+01
	52	1817.70	7.00E+00	5.29			7.00E+00	5.29E+00
M	53	1838.67	8.63E+00	12.70			8.63E+00	1.27E+01
m	54	1847.28	2.41E+01	16.04			2.41E+01	1.60E+01
	55	1875.92	1.22E+01	15.33			1.22E+01	1.53E+01
	56	1897.58	1.10E+01	6.63			1.10E+01	6.63E+00
	57	2118.92	1.13E+01	8.02			1.13E+01	8.02E+00
	58	2203.81	4.74E+01	16.64			4.74E+01	1.66E+01
	59	2446.66	1.06E+01	7.55			1.06E+01	7.55E+00
	60	2613.78	3.41E+01	12.65	3.94E+00	1.34E+00	3.02E+01	1.27E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.999	1460.81	*	10.67	7.38E+00	1.18E+00
CD-109	0.953	88.03	*	3.72	1.39E+00	1.18E+00
SN-126	0.999	87.57	*	37.00	1.32E-01	1.12E-01
TL-208	0.933	583.14	*	30.22	6.03E-01	1.55E-01
		860.37	*	4.48	1.34E+00	9.71E-01
		2614.66	*	35.85	2.70E-01	1.16E-01
PB-210	0.999	46.50	*	4.25	2.63E+00	1.55E+00
PB-212	0.886	238.63	*	44.60	5.72E-01	1.11E-01
		300.09		3.41		
BI-214	0.996	609.31	*	46.30	3.10E+00	3.46E-01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.996	1120.29	*	15.10	3.29E+00	6.01E-01
		1764.49	*	15.80	4.02E+00	6.66E-01
		2204.22	*	4.98	2.93E+00	1.06E+00
PB-214	0.997	295.21	*	19.19	3.43E+00	4.55E-01
		351.92	*	37.19	3.50E+00	3.58E-01
RA-226	0.992	186.21	*	3.28	8.62E+00	1.59E+01
AC-228	0.970	338.32	*	11.40	4.26E-01	3.84E-01
		911.07	*	27.70	3.96E-01	2.32E-01
		969.11	*	16.60	6.67E-01	3.70E-01
PA-234M	0.963	1001.03	*	0.92	4.80E+00	5.85E+00
TH-234	0.999	63.29	*	3.80	2.49E+00	1.23E+00
NP-237	0.858	86.50	*	12.60	3.86E-01	3.29E-01
AM-243	0.989	74.67	*	66.00	3.31E-01	7.70E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 8:23:30AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	77.54	2.13571E-01	7.53	Tol.	TI-44
	6	92.96	1.16206E-01	15.98	Sum	
	7	112.58	1.92903E-02	55.69		
m	10	242.39	1.36983E-01	7.38		
	11	258.03	1.69233E-02	49.41		
	12	269.74	2.47155E-02	42.15		
	16	389.33	1.40562E-02	50.46		
	17	511.13	1.41085E-02	51.33		
	18	561.64	9.44444E-03	50.77		
	19	571.46	8.72790E-03	58.34		
m	21	587.21	7.69824E-03	59.13		
	23	647.19	1.07195E-02	47.39	Sum	
	24	767.59	3.65343E-02	16.59		
	25	785.52	1.26744E-02	30.21		
	28	934.30	2.10010E-02	24.45	Sum	
	32	1156.46	1.06041E-02	45.45	Sum	

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	33	1238.41	2.52463E-02	17.94	Tol.	CO-56
	34	1282.00	1.05411E-02	35.67		
	35	1377.42	1.61111E-02	22.81		
M	36	1401.84	5.36942E-03	50.04		
m	37	1407.87	1.27977E-02	23.43	Tol.	EU-152
	38	1414.73	4.65278E-03	35.45		
	39	1452.26	5.03704E-03	58.82		
M	41	1502.20	4.43451E-03	58.64		
m	42	1509.43	8.90452E-03	30.56		
m	43	1512.43	3.37040E-03	85.10		
M	44	1535.39	2.63172E-03	39.40	Sum	
m	45	1539.65	5.92490E-03	43.08		
M	46	1588.93	3.05806E-03	69.96		
m	47	1593.75	5.09652E-03	43.02		
	48	1661.22	4.06746E-03	52.18		
	49	1693.46	3.61111E-03	63.55	S-Esc	
	50	1729.67	1.43770E-02	21.51	Sum	
	52	1817.70	1.94444E-03	37.80		
M	53	1838.67	2.39859E-03	73.53	Sum	
m	54	1847.28	6.70162E-03	33.24		
	55	1875.92	3.37752E-03	63.04		
	56	1897.58	3.05556E-03	30.15		
	57	2118.92	3.14103E-03	35.44		
	59	2446.66	2.93981E-03	35.67		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	7.38E+00	1.18E+00
CD-109	0.95	88.03	*	3.72	1.39E+00	1.18E+00
SN-126	0.99	87.57	*	37.00	1.32E-01	1.12E-01
TL-208	0.93	583.14	*	30.22	6.03E-01	1.55E-01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.93	860.37	*	4.48	1.34E+00	9.71E-01
		2614.66	*	35.85	2.70E-01	1.16E-01
PB-210	0.99	46.50	*	4.25	2.63E+00	1.55E+00
PB-212	0.88	238.63	*	44.60	5.72E-01	1.11E-01
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	3.10E+00	3.46E-01
		1120.29	*	15.10	3.29E+00	6.01E-01
		1764.49	*	15.80	4.02E+00	6.66E-01
		2204.22	*	4.98	2.93E+00	1.06E+00
PB-214	0.99	295.21	*	19.19	3.43E+00	4.55E-01
		351.92	*	37.19	3.50E+00	3.58E-01
RA-226	0.99	186.21	*	3.28	8.62E+00	1.59E+01
AC-228	0.97	338.32	*	11.40	4.26E-01	3.84E-01
		911.07	*	27.70	3.96E-01	2.32E-01
		969.11	*	16.60	6.67E-01	3.70E-01
PA-234M	0.96	1001.03	*	0.92	4.80E+00	5.85E+00
TH-234	0.99	63.29	*	3.80	2.49E+00	1.23E+00
NP-237	0.85	86.50	*	12.60	3.86E-01	3.29E-01
AM-243	0.98	74.67	*	66.00	3.31E-01	7.70E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.999	7.38E+00	1.18E+00	
?	CD-109	0.953	1.39E+00	1.18E+00	
?	SN-126	0.999	1.32E-01	1.12E-01	
	TL-208	0.933	3.99E-01	9.25E-02	
	PB-210	0.999	2.63E+00	1.55E+00	
	PB-212	0.886	5.72E-01	1.11E-01	
	BI-214	0.996	3.27E+00	2.65E-01	
	PB-214	0.997	3.47E+00	2.81E-01	

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	RA-226	0.992	8.62E+00	1.59E+01	
	AC-228	0.970	4.63E-01	1.75E-01	
	PA-234M	0.963	4.80E+00	5.85E+00	
	TH-234	0.999	2.49E+00	1.23E+00	
?	NP-237	0.858	3.86E-01	3.29E-01	
	AM-243	0.989	3.31E-01	7.70E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/22/2015 8:23:30AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	77.54	2.13571E-01	7.53	Tol.	TI-44
	6	92.96	1.16206E-01	15.98	Sum	
	7	112.58	1.92903E-02	55.69		
m	10	242.39	1.36983E-01	7.38		
	11	258.03	1.69233E-02	49.41		
	12	269.74	2.47155E-02	42.15		
	16	389.33	1.40562E-02	50.46		
	17	511.13	1.41085E-02	51.33		
	18	561.64	9.44444E-03	50.77		
	19	571.46	8.72790E-03	58.34		
m	21	587.21	7.69824E-03	59.13		
	23	647.19	1.07195E-02	47.39	Sum	
	24	767.59	3.65343E-02	16.59		
	25	785.52	1.26744E-02	30.21		
	28	934.30	2.10010E-02	24.45	Sum	
	32	1156.46	1.06041E-02	45.45	Sum	
	33	1238.41	2.52463E-02	17.94	Tol.	CO-56
	34	1282.00	1.05411E-02	35.67		
	35	1377.42	1.61111E-02	22.81		
M	36	1401.84	5.36942E-03	50.04		
m	37	1407.87	1.27977E-02	23.43	Tol.	EU-152
	38	1414.73	4.65278E-03	35.45		
	39	1452.26	5.03704E-03	58.82		
M	41	1502.20	4.43451E-03	58.64		
m	42	1509.43	8.90452E-03	30.56		
m	43	1512.43	3.37040E-03	85.10		
M	44	1535.39	2.63172E-03	39.40	Sum	
m	45	1539.65	5.92490E-03	43.08		
M	46	1588.93	3.05806E-03	69.96		
m	47	1593.75	5.09652E-03	43.02		
	48	1661.22	4.06746E-03	52.18		
	49	1693.46	3.61111E-03	63.55	S-Esc	
	50	1729.67	1.43770E-02	21.51	Sum	
	52	1817.70	1.94444E-03	37.80		
M	53	1838.67	2.39859E-03	73.53	Sum	

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	54	1847.28	6.70162E-03	33.24		
	55	1875.92	3.37752E-03	63.04		
	56	1897.58	3.05556E-03	30.15		
	57	2118.92	3.14103E-03	35.44		
	59	2446.66	2.93981E-03	35.67		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.32E-02	9.04E-01	9.04E-01
+	NA-22	1274.54		99.94	4.84E-02	8.36E-02	8.36E-02
+	NA-24	1368.53		99.99	-5.33E+17	3.73E+17	9.37E+17
		2754.09		99.86	1.69E+16		3.73E+17
+	AL-26	1808.65		99.76	4.23E-03	3.97E-02	3.97E-02
+	K-40	1460.81	*	10.67	7.38E+00	9.79E-01	9.79E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	2.09E-02	7.08E-02	7.08E-02
		78.34		96.00	2.65E-01		8.99E-02
+	SC-46	889.25		99.98	-5.35E-02	8.28E-02	8.28E-02
		1120.51		99.99	6.45E-01		2.23E-01
+	V-48	983.52		99.98	-7.66E-02	3.77E-01	3.77E-01
		1312.10		97.50	2.07E-01		3.86E-01
+	CR-51	320.08		9.83	-4.73E-02	1.36E+00	1.36E+00
+	MN-54	834.83		99.97	-7.58E-02	6.88E-02	6.88E-02
+	CO-56	846.75		99.96	1.89E-03	9.12E-02	9.12E-02
		1037.75		14.03	-1.39E-01		6.42E-01
		1238.25		67.00	4.68E-01		2.56E-01
		1771.40		15.51	-2.03E-02		4.96E-01
		2598.48		16.90	-2.70E-02		1.98E-01
+	CO-57	122.06		85.51	4.32E-03	6.16E-02	6.16E-02
		136.48		10.60	1.17E-01		5.39E-01
+	CO-58	810.76		99.40	-3.98E-02	1.00E-01	1.00E-01
+	FE-59	1099.22		56.50	-1.96E-01	2.07E-01	2.07E-01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	FE-59	1291.56		43.20	1.40E-01	2.07E-01	3.13E-01
+	CO-60	1173.22		100.00	1.53E-02	7.30E-02	7.45E-02
		1332.49		100.00	2.20E-02		7.30E-02
+	ZN-65	1115.52		50.75	3.81E-03	1.90E-01	1.90E-01
+	GA-67	93.31		35.70	2.64E+03	9.31E+02	9.31E+02
		208.95		2.24	2.52E+03		1.14E+04
		300.22		16.00	3.39E+02		1.63E+03
+	SE-75	121.11		16.70	2.75E-01	1.00E-01	3.66E-01
		136.00		59.20	2.19E-02		1.09E-01
		264.65		59.80	-1.45E-03		1.00E-01
		279.53		25.20	-2.01E-03		2.45E-01
		400.65		11.40	-1.75E-01		5.28E-01
+	RB-82	776.52		13.00	9.34E-01	1.46E+00	1.46E+00
+	RB-83	520.41		46.00	2.26E-02	1.68E-01	1.68E-01
		529.64		30.30	3.61E-02		2.57E-01
		552.65		16.40	4.90E-02		4.41E-01
+	KR-85	513.99		0.43	1.49E+01	1.79E+01	1.79E+01
+	SR-85	513.99		99.27	9.88E-02	1.19E-01	1.19E-01
+	Y-88	898.02		93.40	-4.99E-03	7.44E-02	9.99E-02
		1836.01		99.38	1.19E-02		7.44E-02
+	NB-93M	16.57		9.43	-8.15E+01	5.42E+01	5.42E+01
+	NB-94	702.63		100.00	-1.52E-02	6.12E-02	6.56E-02
		871.10		100.00	-3.21E-03		6.12E-02
+	NB-95	765.79		99.81	4.00E-01	2.17E-01	2.17E-01
+	NB-95M	235.69		25.00	-1.89E+03	4.84E+02	4.84E+02
+	ZR-95	724.18		43.70	6.80E-02	1.75E-01	2.47E-01
		756.72		55.30	8.49E-02		1.75E-01
+	MO-99	181.06		6.20	9.26E+03	1.09E+04	1.98E+04
		739.58		12.80	-5.55E+02		1.09E+04
		778.00		4.50	1.24E+04		3.24E+04
+	RU-103	497.08		89.00	-6.60E-02	1.34E-01	1.34E-01
+	RU-106	621.84		9.80	2.40E-01	6.28E-01	6.28E-01
+	AG-108M	433.93		89.90	-1.17E-02	6.50E-02	6.50E-02
		614.37		90.40	-6.67E-03		7.02E-02
		722.95		90.50	-5.88E-02		7.19E-02
+	CD-109	88.03	*	3.72	1.39E+00	1.92E+00	1.92E+00
+	AG-110M	657.75		93.14	5.27E-03	7.27E-02	7.27E-02
		677.61		10.53	1.68E-01		6.22E-01
		706.67		16.46	1.34E-01		4.56E-01
		763.93		21.98	-8.96E-01		3.62E-01
		884.67		71.63	-1.98E-02		1.02E-01
		1384.27		23.94	3.07E-01		3.65E-01
+	CD-113M	263.70		0.02	-1.24E+01	2.12E+02	2.12E+02
+	SN-113	255.12		1.93	-1.50E-01	9.58E-02	3.29E+00
		391.69		64.90	-5.60E-02		9.58E-02
+	TE123M	159.00		84.10	7.07E-02	8.31E-02	8.31E-02
+	SB-124	602.71		97.87	-2.03E-01	1.01E-01	1.01E-01
		645.85		7.26	7.97E-01		1.38E+00

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SB-124	722.78		11.10	-7.58E-01	1.01E-01	9.26E-01
		1691.02		49.00	5.90E-02		1.91E-01
+	I-125	35.49		6.49	8.99E-01	3.22E+00	3.22E+00
+	SB-125	176.33		6.89	-3.88E-01	2.16E-01	7.47E-01
		427.89		29.33	3.77E-02		2.16E-01
		463.38		10.35	3.03E-01		6.06E-01
		600.56		17.80	6.98E-02		3.53E-01
		635.90		11.32	5.90E-03		4.97E-01
+	SB-126	414.70		83.30	1.02E-01	6.00E-01	7.10E-01
		666.33		99.60	9.91E-02		6.27E-01
		695.00		99.60	2.77E-01		6.00E-01
		720.50		53.80	5.74E-02		1.07E+00
+	SN-126	87.57	*	37.00	1.32E-01	1.82E-01	1.82E-01
+	SB-127	473.00		25.00	-4.13E+01	2.04E+02	2.96E+02
		685.20		35.70	7.71E+01		2.04E+02
		783.80		14.70	3.42E+02		6.16E+02
+	I-129	29.78		57.00	3.92E-02	4.51E-01	4.51E-01
		33.60		13.20	-3.57E-01		1.19E+00
		39.58		7.52	3.42E-01		1.33E+00
+	I-131	284.30		6.05	-7.08E+00	1.80E+00	2.53E+01
		364.48		81.20	9.16E-03		1.80E+00
		636.97		7.26	-4.84E+00		2.29E+01
		722.89		1.80	-9.18E+01		1.12E+02
+	TE-132	49.72		13.10	2.26E+02	2.94E+02	2.64E+03
		228.16		88.00	1.51E+02		2.94E+02
+	BA-133	81.00		33.00	-1.20E+00	9.29E-02	1.93E-01
		302.84		17.80	9.29E-02		2.94E-01
		356.01		60.00	-2.36E-02		9.29E-02
+	I-133	529.87		86.30	6.42E+11	4.58E+12	4.58E+12
+	CS-134	563.23		8.38	3.14E-01	7.53E-02	7.54E-01
		569.32		15.43	4.38E-02		4.16E-01
		604.70		97.60	-1.07E-01		8.16E-02
		795.84		85.40	2.53E-03		7.53E-02
		801.93		8.73	-1.45E-01		7.71E-01
+	CS-135	268.24		16.00	4.01E-01	3.67E-01	3.67E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	-2.23E+00	5.54E-01	5.89E+00
		163.89		4.61	-3.15E+00		9.23E+00
		176.55		13.56	-1.57E+00		3.02E+00
		273.65		12.66	-6.49E-01		3.20E+00
		340.57		48.50	4.93E-01		9.68E-01
		818.50		99.70	-2.18E-01		5.54E-01
		1048.07		79.60	-1.71E-01		6.49E-01
		1235.34		19.70	3.15E+00		4.40E+00
+	CS-137	661.65		85.12	-1.95E-02	7.52E-02	7.52E-02
+	LA-138	788.74		34.00	-4.47E-03	7.82E-02	1.98E-01
		1435.80		66.00	-5.82E-02		7.82E-02

Analysis Report for 1506115-04

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CE-139	165.85	80.35	4.76E-02	8.17E-02	8.17E-02
+	BA-140	162.64	6.70	1.69E+00	2.04E+00	6.84E+00
		304.84	4.50	2.75E+00		9.49E+00
		423.70	3.20	-2.17E+00		1.60E+01
		437.55	2.00	-1.60E+01		2.43E+01
		537.32	25.00	4.90E-01		2.04E+00
+	LA-140	328.77	20.50	4.06E-01	6.14E-01	2.30E+00
		487.03	45.50	3.99E-02		1.05E+00
		815.85	23.50	2.34E-01		2.52E+00
		1596.49	95.49	-9.93E-03		6.14E-01
+	CE-141	145.44	48.40	1.06E-01	2.63E-01	2.63E-01
+	CE-143	57.36	11.80	-3.48E+07	1.44E+08	2.99E+08
		293.26	42.00	7.30E+08		1.44E+08
		664.55	5.20	2.09E+08		6.92E+08
+	CE-144	133.54	10.80	-1.27E-01	5.11E-01	5.11E-01
+	PM-144	476.78	42.00	-1.09E-02	5.86E-02	1.45E-01
		618.01	98.60	-6.21E-02		5.86E-02
		696.49	99.49	-5.27E-03		6.88E-02
+	PM-145	36.85	21.70	-2.16E-01	2.86E-01	5.41E-01
		37.36	39.70	-1.17E-01		2.86E-01
		42.30	15.10	-7.03E-02		5.73E-01
		72.40	2.31	-4.13E+00		3.25E+00
+	PM-146	453.90	39.94	7.88E-02	1.57E-01	1.57E-01
		735.90	14.01	9.29E-02		4.53E-01
		747.13	13.10	9.90E-02		5.16E-01
+	ND-147	91.11	28.90	-3.40E+00	2.99E+00	2.99E+00
		531.02	13.10	-8.44E-01		5.36E+00
+	PM-149	285.90	3.10	1.85E+05	4.49E+05	4.49E+05
+	EU-152	121.78	20.50	1.63E-02	2.33E-01	2.33E-01
		244.69	5.40	1.70E+00		1.26E+00
		344.27	19.13	-4.96E-02		2.68E-01
		778.89	9.20	1.65E-01		6.61E-01
		964.01	10.40	-8.62E-02		7.50E-01
		1085.78	7.22	-2.26E-01		9.16E-01
		1112.02	9.60	3.24E-01		7.58E-01
		1407.95	14.94	4.44E-01		6.13E-01
+	GD-153	97.43	31.30	-2.87E-02	1.75E-01	1.75E-01
		103.18	22.20	1.14E-01		2.34E-01
+	EU-154	123.07	40.50	7.64E-03	1.18E-01	1.18E-01
		723.30	19.70	-2.72E-01		3.33E-01
		873.19	11.50	-1.08E-02		5.42E-01
		996.32	10.30	-1.91E-01		6.38E-01
		1004.76	17.90	3.04E-02		3.90E-01
		1274.45	35.50	1.34E-01		2.31E-01
+	EU-155	86.50	30.90	4.11E-02	2.20E-01	2.20E-01
		105.30	20.70	-2.73E-02		2.22E-01
+	EU-156	811.77	10.40	-1.73E+00	4.01E+00	4.01E+00
		1153.47	7.20	-2.64E-01		7.22E+00
		1230.71	8.90	1.88E+00		4.58E+00

Analysis Report for 1506115-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	HO-166M	184.41		72.60	3.14E-01	1.06E-01	1.06E-01
		280.45		29.60	-1.18E-01		1.58E-01
		410.94		11.10	-5.10E-03		5.84E-01
		711.69		54.10	1.06E-02		1.15E-01
+	TM-171	66.72		0.14	1.40E+01	5.00E+01	5.00E+01
+	HF-172	81.75		4.52	-2.13E+00	4.31E-01	1.43E+00
		125.81		11.30	-1.86E-01		4.31E-01
+	LU-172	181.53		20.60	8.84E+00	7.25E+00	1.66E+01
		810.06		16.63	2.67E-01		2.57E+01
		912.12		15.25	4.63E+01		3.72E+01
		1093.66		62.50	5.61E-01		7.25E+00
+	LU-173	100.72		5.24	5.89E-01	2.85E-01	9.72E-01
		272.11		21.20	1.73E-01		2.85E-01
+	HF-175	343.40		84.00	2.80E-03	9.00E-02	9.00E-02
+	LU-176	88.34		13.30	5.77E-01	4.89E-02	5.09E-01
		201.83		86.00	-8.94E-03		6.33E-02
		306.78		94.00	-2.31E-02		4.89E-02
+	TA-182	67.75		41.20	6.11E-02	2.06E-01	2.06E-01
		1121.30		34.90	1.77E+00		5.86E-01
		1189.05		16.23	5.42E-02		5.71E-01
		1221.41		26.98	-1.89E-02		3.33E-01
		1231.02		11.44	3.02E-01		7.36E-01
+	IR-192	308.46		29.68	-1.19E-01	1.78E-01	2.25E-01
		468.07		48.10	-2.96E-03		1.78E-01
+	HG-203	279.19		77.30	5.73E-02	1.20E-01	1.20E-01
+	BI-207	569.67		97.72	6.26E-02	6.66E-02	6.66E-02
		1063.62		74.90	-5.16E-03		8.29E-02
+	TL-208	583.14	*	30.22	6.03E-01	1.19E-01	3.42E-01
		860.37	*	4.48	1.34E+00		1.51E+00
		2614.66	*	35.85	2.70E-01		1.19E-01
+	BI-210M	262.00		45.00	-5.00E-03	1.09E-01	1.09E-01
		300.00		23.00	4.94E-02		2.38E-01
+	PB-210	46.50	*	4.25	2.63E+00	2.46E+00	2.46E+00
+	PB-211	404.84		2.90	-2.88E-01	1.75E+00	1.75E+00
		831.96		2.90	1.89E-01		2.13E+00
+	BI-212	727.17		11.80	6.46E-01	6.29E-01	6.29E-01
		1620.62		2.75	-1.11E+00		2.04E+00
+	PB-212	238.63	*	44.60	5.72E-01	2.69E-01	2.69E-01
		300.09		3.41	3.33E-01		1.60E+00
+	BI-214	609.31	*	46.30	3.10E+00	1.57E-01	1.57E-01
		1120.29	*	15.10	3.29E+00		5.83E-01
		1764.49	*	15.80	4.02E+00		4.58E-01
		2204.22	*	4.98	2.93E+00		1.12E+00
+	PB-214	295.21	*	19.19	3.43E+00	2.23E-01	4.82E-01
		351.92	*	37.19	3.50E+00		2.23E-01
+	RN-219	401.80		6.50	-5.45E-01	7.37E-01	7.37E-01
+	RA-223	323.87		3.88	-5.80E-02	1.31E+00	1.31E+00
+	RA-224	240.98		3.95	1.12E+01	2.47E+00	2.47E+00

Analysis Report for 1506115-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-225	40.00		31.00	5.23E-01	2.03E+00	2.03E+00
+	RA-226	186.21	*	3.28	8.62E+00	2.92E+00	2.92E+00
+	TH-227	50.10		8.40	7.25E-02	5.00E-01	8.45E-01
		236.00		11.50	-1.95E+00		5.00E-01
		256.20		6.30	-1.30E-01		8.16E-01
+	AC-228	338.32	*	11.40	4.26E-01	3.58E-01	6.22E-01
		911.07	*	27.70	3.96E-01		3.58E-01
		969.11	*	16.60	6.67E-01		5.62E-01
+	TH-230	48.44		16.90	4.69E-01	4.89E-01	4.89E-01
		62.85		4.60	2.57E+00		1.67E+00
		67.67		0.37	5.35E+00		1.81E+01
+	PA-231	283.67		1.60	-2.00E+00	2.26E+00	2.98E+00
		302.67		2.30	7.14E-01		2.26E+00
+	TH-231	25.64		14.70	-1.13E+00	1.00E+00	4.64E+00
		84.21		6.40	6.68E-01		1.00E+00
+	PA-233	311.98		38.60	8.91E-02	3.63E-01	3.63E-01
+	PA-234	131.20		20.40	2.00E-02	2.49E-01	2.49E-01
		733.99		8.80	1.52E-02		7.01E-01
		946.00		12.00	7.70E-02		5.58E-01
+	PA-234M	1001.03	*	0.92	4.80E+00	9.58E+00	9.58E+00
+	TH-234	63.29	*	3.80	2.49E+00	2.79E+00	2.79E+00
+	U-235	143.76		10.50	2.89E-01	5.17E-01	5.17E-01
		163.35		4.70	-3.78E-01		1.11E+00
		205.31		4.70	3.08E-01		1.16E+00
+	NP-237	86.50	*	12.60	3.86E-01	5.33E-01	5.33E-01
+	NP-239	106.10		22.70	-3.05E+03	2.49E+04	2.49E+04
		228.18		10.70	3.21E+04		6.26E+04
		277.60		14.10	6.74E+03		4.44E+04
+	AM-241	59.54		35.90	-3.05E-01	1.86E-01	1.86E-01
+	AM-243	74.67	*	66.00	3.31E-01	1.91E-01	1.91E-01
+	CM-243	209.75		3.29	-2.42E-01	3.60E-01	1.60E+00
		228.14		10.60	2.62E-01		5.10E-01
		277.60		14.00	5.47E-02		3.60E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1506115-04

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	9.04E-01	9.04E-01	1.32E-02	4.29E-01
	NA-22	1274.54		99.94	8.36E-02	8.36E-02	4.84E-02	3.87E-02
	NA-24	1368.53		99.99	9.37E+17	3.73E+17	-5.33E+17	4.19E+17
		2754.09		99.86	3.73E+17		1.69E+16	1.18E+17
	AL-26	1808.65		99.76	3.97E-02	3.97E-02	4.23E-03	1.61E-02
+	K-40	1460.81	*	10.67	9.79E-01	9.79E-01	7.38E+00	4.58E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.08E-02	7.08E-02	2.09E-02	3.47E-02
		78.34		96.00	8.99E-02		2.65E-01	4.43E-02
	SC-46	889.25		99.98	8.28E-02	8.28E-02	-5.35E-02	3.82E-02
		1120.51		99.99	2.23E-01		6.45E-01	1.08E-01
	V-48	983.52		99.98	3.77E-01	3.77E-01	-7.66E-02	1.75E-01
		1312.10		97.50	3.86E-01		2.07E-01	1.75E-01
	CR-51	320.08		9.83	1.36E+00	1.36E+00	-4.73E-02	6.51E-01
	MN-54	834.83		99.97	6.88E-02	6.88E-02	-7.58E-02	3.21E-02
	CO-56	846.75		99.96	9.12E-02	9.12E-02	1.89E-03	4.25E-02
		1037.75		14.03	6.42E-01		-1.39E-01	2.95E-01
		1238.25		67.00	2.56E-01		4.68E-01	1.22E-01
		1771.40		15.51	4.96E-01		-2.03E-02	2.13E-01
		2598.48		16.90	1.98E-01		-2.70E-02	6.27E-02
	CO-57	122.06		85.51	6.16E-02	6.16E-02	4.32E-03	3.00E-02
		136.48		10.60	5.39E-01		1.17E-01	2.63E-01
	CO-58	810.76		99.40	1.00E-01	1.00E-01	-3.98E-02	4.71E-02
	FE-59	1099.22		56.50	2.07E-01	2.07E-01	-1.96E-01	9.45E-02
		1291.56		43.20	3.13E-01		1.40E-01	1.43E-01
	CO-60	1173.22		100.00	7.45E-02	7.30E-02	1.53E-02	3.44E-02
		1332.49		100.00	7.30E-02		2.20E-02	3.34E-02
	ZN-65	1115.52		50.75	1.90E-01	1.90E-01	3.81E-03	8.90E-02
	GA-67	93.31		35.70	9.31E+02	9.31E+02	2.64E+03	4.58E+02
		208.95		2.24	1.14E+04		2.52E+03	5.51E+03
		300.22		16.00	1.63E+03		3.39E+02	7.86E+02
	SE-75	121.11		16.70	3.66E-01	1.00E-01	2.75E-01	1.78E-01
		136.00		59.20	1.09E-01		2.19E-02	5.32E-02
		264.65		59.80	1.00E-01		-1.45E-03	4.83E-02
		279.53		25.20	2.45E-01		-2.01E-03	1.18E-01
		400.65		11.40	5.28E-01		-1.75E-01	2.51E-01
	RB-82	776.52		13.00	1.46E+00	1.46E+00	9.34E-01	6.85E-01
	RB-83	520.41		46.00	1.68E-01	1.68E-01	2.26E-02	7.96E-02
		529.64		30.30	2.57E-01		3.61E-02	1.22E-01
		552.65		16.40	4.41E-01		4.90E-02	2.07E-01
	KR-85	513.99		0.43	1.79E+01	1.79E+01	1.49E+01	8.62E+00
	SR-85	513.99		99.27	1.19E-01	1.19E-01	9.88E-02	5.73E-02
	Y-88	898.02		93.40	9.99E-02	7.44E-02	-4.99E-03	4.68E-02
		1836.01		99.38	7.44E-02		1.19E-02	3.22E-02
	NB-93M	16.57		9.43	5.42E+01	5.42E+01	-8.15E+01	2.49E+01

Analysis Report for 1506115-04

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	6.56E-02	6.12E-02	-1.52E-02	3.09E-02
		871.10		100.00	6.12E-02		-3.21E-03	2.84E-02
	NB-95	765.79		99.81	2.17E-01	2.17E-01	4.00E-01	1.04E-01
	NB-95M	235.69		25.00	4.84E+02	4.84E+02	-1.89E+03	2.35E+02
	ZR-95	724.18		43.70	2.47E-01	1.75E-01	6.80E-02	1.17E-01
		756.72		55.30	1.75E-01		8.49E-02	8.19E-02
	MO-99	181.06		6.20	1.98E+04	1.09E+04	9.26E+03	9.64E+03
		739.58		12.80	1.09E+04		-5.55E+02	5.08E+03
		778.00		4.50	3.24E+04		1.24E+04	1.51E+04
	RU-103	497.08		89.00	1.34E-01	1.34E-01	-6.60E-02	6.36E-02
	RU-106	621.84		9.80	6.28E-01	6.28E-01	2.40E-01	2.95E-01
	AG-108M	433.93		89.90	6.50E-02	6.50E-02	-1.17E-02	3.10E-02
		614.37		90.40	7.02E-02		-6.67E-03	3.32E-02
		722.95		90.50	7.19E-02		-5.88E-02	3.38E-02
+	CD-109	88.03	*	3.72	1.92E+00	1.92E+00	1.39E+00	9.42E-01
	AG-110M	657.75		93.14	7.27E-02	7.27E-02	5.27E-03	3.42E-02
		677.61		10.53	6.22E-01		1.68E-01	2.92E-01
		706.67		16.46	4.56E-01		1.34E-01	2.15E-01
		763.93		21.98	3.62E-01		-8.96E-01	1.71E-01
		884.67		71.63	1.02E-01		-1.98E-02	4.75E-02
		1384.27		23.94	3.65E-01		3.07E-01	1.68E-01
	CD-113M	263.70		0.02	2.12E+02	2.12E+02	-1.24E+01	1.02E+02
	SN-113	255.12		1.93	3.29E+00	9.58E-02	-1.50E-01	1.58E+00
		391.69		64.90	9.58E-02		-5.60E-02	4.56E-02
	TE123M	159.00		84.10	8.31E-02	8.31E-02	7.07E-02	4.05E-02
	SB-124	602.71		97.87	1.01E-01	1.01E-01	-2.03E-01	4.76E-02
		645.85		7.26	1.38E+00		7.97E-01	6.51E-01
		722.78		11.10	9.26E-01		-7.58E-01	4.36E-01
		1691.02		49.00	1.91E-01		5.90E-02	8.37E-02
	I-125	35.49		6.49	3.22E+00	3.22E+00	8.99E-01	1.57E+00
	SB-125	176.33		6.89	7.47E-01	2.16E-01	-3.88E-01	3.63E-01
		427.89		29.33	2.16E-01		3.77E-02	1.03E-01
		463.38		10.35	6.06E-01		3.03E-01	2.90E-01
		600.56		17.80	3.53E-01		6.98E-02	1.67E-01
		635.90		11.32	4.97E-01		5.90E-03	2.33E-01
	SB-126	414.70		83.30	7.10E-01	6.00E-01	1.02E-01	3.41E-01
		666.33		99.60	6.27E-01		9.91E-02	2.97E-01
		695.00		99.60	6.00E-01		2.77E-01	2.83E-01
		720.50		53.80	1.07E+00		5.74E-02	5.04E-01
+	SN-126	87.57	*	37.00	1.82E-01	1.82E-01	1.32E-01	8.92E-02
	SB-127	473.00		25.00	2.96E+02	2.04E+02	-4.13E+01	1.41E+02
		685.20		35.70	2.04E+02		7.71E+01	9.54E+01
		783.80		14.70	6.16E+02		3.42E+02	2.90E+02
	I-129	29.78		57.00	4.51E-01	4.51E-01	3.92E-02	2.19E-01
		33.60		13.20	1.19E+00		-3.57E-01	5.76E-01
		39.58		7.52	1.33E+00		3.42E-01	6.45E-01
	I-131	284.30		6.05	2.53E+01	1.80E+00	-7.08E+00	1.22E+01
		364.48		81.20	1.80E+00		9.16E-03	8.55E-01
		636.97		7.26	2.29E+01		-4.84E+00	1.07E+01
		722.89		1.80	1.12E+02		-9.18E+01	5.28E+01
	TE-132	49.72		13.10	2.64E+03	2.94E+02	2.26E+02	1.29E+03
		228.16		88.00	2.94E+02		1.51E+02	1.43E+02
	BA-133	81.00		33.00	1.93E-01	9.29E-02	-1.20E+00	9.48E-02

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-133	302.84	17.80	2.94E-01	9.29E-02	9.29E-02	1.41E-01
	356.01	60.00	9.29E-02		-2.36E-02	4.45E-02
I-133	529.87	86.30	4.58E+12	4.58E+12	6.42E+11	2.17E+12
CS-134	563.23	8.38	7.54E-01	7.53E-02	3.14E-01	3.57E-01
	569.32	15.43	4.16E-01		4.38E-02	1.97E-01
	604.70	97.60	8.16E-02		-1.07E-01	3.90E-02
	795.84	85.40	7.53E-02		2.53E-03	3.51E-02
	801.93	8.73	7.71E-01		-1.45E-01	3.61E-01
CS-135	268.24	16.00	3.67E-01	3.67E-01	4.01E-01	1.78E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	5.89E+00	5.54E-01	-2.23E+00	2.87E+00
	163.89	4.61	9.23E+00		-3.15E+00	4.49E+00
	176.55	13.56	3.02E+00		-1.57E+00	1.46E+00
	273.65	12.66	3.20E+00		-6.49E-01	1.54E+00
	340.57	48.50	9.68E-01		4.93E-01	4.66E-01
	818.50	99.70	5.54E-01		-2.18E-01	2.60E-01
	1048.07	79.60	6.49E-01		-1.71E-01	2.98E-01
	1235.34	19.70	4.40E+00		3.15E+00	2.08E+00
CS-137	661.65	85.12	7.52E-02	7.52E-02	-1.95E-02	3.55E-02
LA-138	788.74	34.00	1.98E-01	7.82E-02	-4.47E-03	9.30E-02
	1435.80	66.00	7.82E-02		-5.82E-02	3.41E-02
CE-139	165.85	80.35	8.17E-02	8.17E-02	4.76E-02	3.98E-02
BA-140	162.64	6.70	6.84E+00	2.04E+00	1.69E+00	3.33E+00
	304.84	4.50	9.49E+00		2.75E+00	4.55E+00
	423.70	3.20	1.60E+01		-2.17E+00	7.66E+00
	437.55	2.00	2.43E+01		-1.60E+01	1.16E+01
	537.32	25.00	2.04E+00		4.90E-01	9.66E-01
LA-140	328.77	20.50	2.30E+00	6.14E-01	4.06E-01	1.11E+00
	487.03	45.50	1.05E+00		3.99E-02	4.99E-01
	815.85	23.50	2.52E+00		2.34E-01	1.18E+00
	1596.49	95.49	6.14E-01		-9.93E-03	2.75E-01
CE-141	145.44	48.40	2.63E-01	2.63E-01	1.06E-01	1.29E-01
CE-143	57.36	11.80	2.99E+08	1.44E+08	-3.48E+07	1.46E+08
	293.26	42.00	1.44E+08		7.30E+08	7.07E+07
	664.55	5.20	6.92E+08		2.09E+08	3.28E+08
CE-144	133.54	10.80	5.11E-01	5.11E-01	-1.27E-01	2.49E-01
PM-144	476.78	42.00	1.45E-01	5.86E-02	-1.09E-02	6.88E-02
	618.01	98.60	5.86E-02		-6.21E-02	2.75E-02
	696.49	99.49	6.88E-02		-5.27E-03	3.24E-02
PM-145	36.85	21.70	5.41E-01	2.86E-01	-2.16E-01	2.63E-01
	37.36	39.70	2.86E-01		-1.17E-01	1.39E-01
	42.30	15.10	5.73E-01		-7.03E-02	2.79E-01
	72.40	2.31	3.25E+00		-4.13E+00	1.60E+00
PM-146	453.90	39.94	1.57E-01	1.57E-01	7.88E-02	7.50E-02
	735.90	14.01	4.53E-01		9.29E-02	2.12E-01
	747.13	13.10	5.16E-01		9.90E-02	2.43E-01
ND-147	91.11	28.90	2.99E+00	2.99E+00	-3.40E+00	1.47E+00
	531.02	13.10	5.36E+00		-8.44E-01	2.54E+00
PM-149	285.90	3.10	4.49E+05	4.49E+05	1.85E+05	2.16E+05
EU-152	121.78	20.50	2.33E-01	2.33E-01	1.63E-02	1.14E-01
	244.69	5.40	1.26E+00		1.70E+00	6.14E-01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	344.27		19.13	2.68E-01	2.33E-01	-4.96E-02	1.28E-01
		778.89		9.20	6.61E-01		1.65E-01	3.08E-01
		964.01		10.40	7.50E-01		-8.62E-02	3.52E-01
		1085.78		7.22	9.16E-01		-2.26E-01	4.21E-01
		1112.02		9.60	7.58E-01		3.24E-01	3.51E-01
		1407.95		14.94	6.13E-01		4.44E-01	2.85E-01
	GD-153	97.43		31.30	1.75E-01	1.75E-01	-2.87E-02	8.53E-02
		103.18		22.20	2.34E-01		1.14E-01	1.14E-01
	EU-154	123.07		40.50	1.18E-01	1.18E-01	7.64E-03	5.77E-02
		723.30		19.70	3.33E-01		-2.72E-01	1.57E-01
		873.19		11.50	5.42E-01		-1.08E-02	2.52E-01
		996.32		10.30	6.38E-01		-1.91E-01	2.95E-01
		1004.76		17.90	3.90E-01		3.04E-02	1.81E-01
		1274.45		35.50	2.31E-01		1.34E-01	1.07E-01
	EU-155	86.50		30.90	2.20E-01	2.20E-01	4.11E-02	1.08E-01
		105.30		20.70	2.22E-01		-2.73E-02	1.08E-01
	EU-156	811.77		10.40	4.01E+00	4.01E+00	-1.73E+00	1.88E+00
		1153.47		7.20	7.22E+00		-2.64E-01	3.37E+00
		1230.71		8.90	4.58E+00		1.88E+00	2.09E+00
	HO-166M	184.41		72.60	1.06E-01	1.06E-01	3.14E-01	5.18E-02
		280.45		29.60	1.58E-01		-1.18E-01	7.56E-02
		410.94		11.10	5.84E-01		-5.10E-03	2.81E-01
		711.69		54.10	1.15E-01		1.06E-02	5.38E-02
	TM-171	66.72		0.14	5.00E+01	5.00E+01	1.40E+01	2.45E+01
	HF-172	81.75		4.52	1.43E+00	4.31E-01	-2.13E+00	7.01E-01
		125.81		11.30	4.31E-01		-1.86E-01	2.10E-01
	LU-172	181.53		20.60	1.66E+01	7.25E+00	8.84E+00	8.07E+00
		810.06		16.63	2.57E+01		2.67E-01	1.21E+01
		912.12		15.25	3.72E+01		4.63E+01	1.77E+01
		1093.66		62.50	7.25E+00		5.61E-01	3.36E+00
	LU-173	100.72		5.24	9.72E-01	2.85E-01	5.89E-01	4.74E-01
		272.11		21.20	2.85E-01		1.73E-01	1.38E-01
	HF-175	343.40		84.00	9.00E-02	9.00E-02	2.80E-03	4.31E-02
	LU-176	88.34		13.30	5.09E-01	4.89E-02	5.77E-01	2.50E-01
		201.83		86.00	6.33E-02		-8.94E-03	3.08E-02
		306.78		94.00	4.89E-02		-2.31E-02	2.34E-02
	TA-182	67.75		41.20	2.06E-01	2.06E-01	6.11E-02	1.01E-01
		1121.30		34.90	5.86E-01		1.77E+00	2.83E-01
		1189.05		16.23	5.71E-01		5.42E-02	2.63E-01
		1221.41		26.98	3.33E-01		-1.89E-02	1.53E-01
		1231.02		11.44	7.36E-01		3.02E-01	3.36E-01
	IR-192	308.46		29.68	2.25E-01	1.78E-01	-1.19E-01	1.07E-01
		468.07		48.10	1.78E-01		-2.96E-03	8.46E-02
	HG-203	279.19		77.30	1.20E-01	1.20E-01	5.73E-02	5.75E-02
	BI-207	569.67		97.72	6.66E-02	6.66E-02	6.26E-02	3.17E-02
		1063.62		74.90	8.29E-02		-5.16E-03	3.80E-02
+	TL-208	583.14	*	30.22	3.42E-01	1.19E-01	6.03E-01	1.66E-01
		860.37	*	4.48	1.51E+00		1.34E+00	7.05E-01
		2614.66	*	35.85	1.19E-01		2.70E-01	4.72E-02
	BI-210M	262.00		45.00	1.09E-01	1.09E-01	-5.00E-03	5.25E-02
		300.00		23.00	2.38E-01		4.94E-02	1.14E-01
+	PB-210	46.50	*	4.25	2.46E+00	2.46E+00	2.63E+00	1.21E+00
	PB-211	404.84		2.90	1.75E+00	1.75E+00	-2.88E-01	8.34E-01

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	831.96		2.90	2.13E+00	1.75E+00	1.89E-01	9.93E-01
	BI-212	727.17		11.80	6.29E-01	6.29E-01	6.46E-01	2.98E-01
		1620.62		2.75	2.04E+00		-1.11E+00	8.90E-01
+	PB-212	238.63	*	44.60	2.69E-01	2.69E-01	5.72E-01	1.33E-01
		300.09		3.41	1.60E+00		3.33E-01	7.72E-01
+	BI-214	609.31	*	46.30	1.57E-01	1.57E-01	3.10E+00	7.50E-02
		1120.29	*	15.10	5.83E-01		3.29E+00	2.73E-01
		1764.49	*	15.80	4.58E-01		4.02E+00	2.05E-01
		2204.22	*	4.98	1.12E+00		2.93E+00	4.76E-01
+	PB-214	295.21	*	19.19	4.82E-01	2.23E-01	3.43E+00	2.36E-01
		351.92	*	37.19	2.23E-01		3.50E+00	1.09E-01
	RN-219	401.80		6.50	7.37E-01	7.37E-01	-5.45E-01	3.50E-01
	RA-223	323.87		3.88	1.31E+00	1.31E+00	-5.80E-02	6.28E-01
	RA-224	240.98		3.95	2.47E+00	2.47E+00	1.12E+01	1.21E+00
	RA-225	40.00		31.00	2.03E+00	2.03E+00	5.23E-01	9.85E-01
+	RA-226	186.21	*	3.28	2.92E+00	2.92E+00	8.62E+00	1.44E+00
	TH-227	50.10		8.40	8.45E-01	5.00E-01	7.25E-02	4.12E-01
		236.00		11.50	5.00E-01		-1.95E+00	2.43E-01
		256.20		6.30	8.16E-01		-1.30E-01	3.94E-01
+	AC-228	338.32	*	11.40	6.22E-01	3.58E-01	4.26E-01	3.01E-01
		911.07	*	27.70	3.58E-01		3.96E-01	1.71E-01
		969.11	*	16.60	5.62E-01		6.67E-01	2.67E-01
	TH-230	48.44		16.90	4.89E-01	4.89E-01	4.69E-01	2.39E-01
		62.85		4.60	1.67E+00		2.57E+00	8.21E-01
		67.67		0.37	1.81E+01		5.35E+00	8.87E+00
	PA-231	283.67		1.60	2.98E+00	2.26E+00	-2.00E+00	1.43E+00
		302.67		2.30	2.26E+00		7.14E-01	1.09E+00
	TH-231	25.64		14.70	4.64E+00	1.00E+00	-1.13E+00	2.27E+00
		84.21		6.40	1.00E+00		6.68E-01	4.92E-01
	PA-233	311.98		38.60	3.63E-01	3.63E-01	8.91E-02	1.74E-01
	PA-234	131.20		20.40	2.49E-01	2.49E-01	2.00E-02	1.21E-01
		733.99		8.80	7.01E-01		1.52E-02	3.28E-01
		946.00		12.00	5.58E-01		7.70E-02	2.59E-01
+	PA-234M	1001.03	*	0.92	9.58E+00	9.58E+00	4.80E+00	4.52E+00
+	TH-234	63.29	*	3.80	2.79E+00	2.79E+00	2.49E+00	1.38E+00
	U-235	143.76		10.50	5.17E-01	5.17E-01	2.89E-01	2.52E-01
		163.35		4.70	1.11E+00		-3.78E-01	5.39E-01
		205.31		4.70	1.16E+00		3.08E-01	5.62E-01
+	NP-237	86.50	*	12.60	5.33E-01	5.33E-01	3.86E-01	2.62E-01
	NP-239	106.10		22.70	2.49E+04	2.49E+04	-3.05E+03	1.21E+04
		228.18		10.70	6.26E+04		3.21E+04	3.03E+04
		277.60		14.10	4.44E+04		6.74E+03	2.14E+04
	AM-241	59.54		35.90	1.86E-01	1.86E-01	-3.05E-01	9.13E-02
+	AM-243	74.67	*	66.00	1.91E-01	1.91E-01	3.31E-01	9.45E-02
	CM-243	209.75		3.29	1.60E+00	3.60E-01	-2.42E-01	7.76E-01
		228.14		10.60	5.10E-01		2.62E-01	2.47E-01
		277.60		14.00	3.60E-01		5.47E-02	1.73E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1506115-04

FEEBRIS1D-13.093-094

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-13.093-094

Elapsed Live time: 3600
Elapsed Real Time: 3602

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	45	96	134	275	326	306
25:	100	81	87	77	71	80	82	80
33:	69	78	79	64	78	81	72	85
41:	87	81	75	85	90	123	222	133
49:	97	106	103	102	95	143	109	127
57:	133	108	136	174	162	165	237	353
65:	174	167	171	214	182	180	181	171
73:	190	229	466	400	454	666	245	193
81:	193	167	152	210	213	165	250	289
89:	177	215	188	201	418	266	187	118
97:	124	99	112	121	113	109	102	97
105:	111	92	78	107	98	89	103	111
113:	128	122	87	100	107	91	107	96
121:	93	123	100	85	92	98	106	89
129:	105	118	113	107	101	98	106	105
137:	106	118	103	106	96	111	111	131
145:	124	94	105	116	101	91	107	103
153:	99	102	127	98	119	116	105	104
161:	97	84	86	121	90	81	101	92
169:	84	104	85	96	83	84	84	71
177:	87	77	73	91	105	88	78	103
185:	118	293	299	101	90	100	86	72
193:	70	85	78	81	81	74	85	73
201:	69	87	84	84	80	71	79	73
209:	65	84	62	67	69	62	78	72
217:	55	73	74	62	62	58	63	61
225:	74	68	68	70	66	60	45	57
233:	65	60	57	71	72	103	290	137
241:	94	246	274	56	58	57	39	40
249:	44	43	51	47	39	52	40	53
257:	60	53	66	58	37	47	44	41
265:	41	47	38	58	57	78	88	43
273:	49	37	55	35	58	51	40	37
281:	40	39	30	47	38	38	52	55
289:	43	45	53	49	38	67	400	536
297:	102	54	39	56	51	35	42	39
305:	42	32	30	29	26	33	39	45
313:	32	39	36	42	33	36	35	36
321:	37	29	28	39	45	40	39	35
329:	52	34	44	37	34	41	45	30
337:	32	59	77	32	43	32	34	26
345:	38	37	32	29	40	40	175	880
353:	549	65	38	38	20	27	32	27
361:	23	20	24	30	24	28	23	35

369:	22	22	29	27	26	31	28	23

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Channel								
377:	23	21	25	30	22	26	27	31
385:	31	33	33	31	42	36	19	33
393:	17	21	29	29	30	34	20	23
401:	23	31	19	20	26	41	24	31
409:	26	32	28	32	35	27	31	26
417:	21	29	21	30	28	21	28	14
425:	23	24	28	25	24	29	25	16
433:	36	20	18	18	23	22	22	17
441:	22	19	29	22	33	18	21	27
449:	20	24	16	21	34	23	18	29
457:	23	20	13	16	24	25	24	26
465:	18	19	19	19	21	29	16	14
473:	19	20	13	17	16	22	17	20
481:	19	21	11	13	18	18	21	16
489:	12	18	16	17	24	24	23	18
497:	16	16	16	16	26	21	12	20
505:	19	19	12	20	20	42	63	52
513:	34	17	19	12	18	15	23	7
521:	10	12	24	17	8	20	15	7
529:	17	20	11	17	20	15	14	17
537:	20	14	18	13	17	12	12	16
545:	20	12	9	13	11	10	9	20
553:	14	12	10	10	12	10	13	17
561:	17	22	20	15	8	14	16	12
569:	13	22	22	16	26	11	10	13
577:	17	13	11	19	21	21	63	82
585:	19	15	24	14	11	17	7	9
593:	17	11	8	13	12	12	13	10
601:	17	18	20	13	17	11	8	77
609:	489	554	99	24	19	18	7	13
617:	15	11	10	8	10	15	17	11
625:	13	4	9	11	9	8	10	14
633:	11	8	19	9	10	8	9	7
641:	12	9	10	12	12	14	20	13
649:	17	9	10	5	10	15	8	14
657:	15	14	9	9	18	10	13	13
665:	24	22	11	15	8	18	10	13
673:	10	11	12	8	12	14	16	6
681:	9	6	11	7	9	11	14	10
689:	6	9	10	11	12	10	10	15
697:	17	15	11	9	16	12	16	18
705:	8	13	16	16	13	12	12	8
713:	11	9	15	6	8	10	11	12
721:	15	8	9	14	11	17	27	20
729:	7	17	11	6	14	12	13	9
737:	10	10	9	5	16	10	11	10
745:	10	10	15	12	14	15	15	8
753:	6	9	14	13	13	7	11	7
761:	8	8	15	11	14	15	24	60
769:	48	11	11	7	10	9	12	8
777:	12	14	14	6	6	5	9	14
785:	9	28	15	8	6	7	9	7
793:	12	5	17	12	7	4	9	12

801:	8	10	13	10	10	16	16	9

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Channel								
809:	9	18	7	13	9	12	9	14
817:	15	7	12	9	13	6	16	14
825:	8	17	8	9	7	10	9	10
833:	6	7	12	8	8	12	17	23
841:	8	8	9	3	12	7	11	12
849:	8	11	9	10	6	6	13	3
857:	6	7	11	18	16	11	10	5
865:	9	8	12	3	9	6	11	9
873:	12	5	7	6	13	6	11	9
881:	16	8	10	12	5	7	9	11
889:	10	6	2	5	12	11	12	12
897:	13	12	9	11	5	8	13	12
905:	9	10	8	10	14	14	40	28
913:	10	9	6	7	7	7	11	11
921:	7	10	8	9	4	2	7	10
929:	6	9	7	8	23	36	26	8
937:	7	11	6	4	7	4	7	11
945:	6	12	6	9	7	9	9	9
953:	10	4	11	6	8	10	12	10
961:	9	11	8	9	13	11	16	14
969:	34	19	9	6	8	8	8	11
977:	6	4	8	9	7	9	7	10
985:	5	7	9	7	11	8	11	7
993:	5	5	5	9	9	6	11	12
1001:	13	17	9	10	4	3	7	6
1009:	6	5	10	4	5	5	9	9
1017:	4	9	3	5	8	11	6	8
1025:	15	4	9	4	3	7	4	9
1033:	12	9	5	6	4	7	7	8
1041:	7	3	6	5	3	6	5	13
1049:	4	5	7	13	5	3	10	10
1057:	6	5	10	2	1	4	5	8
1065:	6	7	9	7	5	13	4	9
1073:	7	7	11	3	6	3	8	5
1081:	8	8	5	5	8	7	4	4
1089:	11	8	6	9	9	12	6	6
1097:	7	5	7	2	6	6	16	5
1105:	9	6	6	5	9	7	4	8
1113:	9	9	6	5	5	10	31	115
1121:	77	29	8	6	8	2	6	8
1129:	7	4	7	6	5	7	10	3
1137:	4	1	3	5	9	9	3	3
1145:	5	3	7	4	9	5	5	7
1153:	4	10	18	19	10	4	6	7
1161:	11	5	2	8	8	9	5	6
1169:	7	6	6	7	7	7	6	10
1177:	4	7	13	6	11	5	9	8
1185:	8	4	6	6	7	4	11	9
1193:	4	5	6	5	6	9	11	6
1201:	5	3	3	7	10	7	14	7
1209:	5	7	8	8	6	9	6	12
1217:	11	8	8	4	7	4	6	5
1225:	5	1	5	6	6	3	6	8

1233:	3	4	5	5	18	56	26	12

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Channel								
1241:	8	4	5	7	4	5	6	4
1249:	8	7	7	5	8	4	6	11
1257:	6	4	3	4	4	5	5	1
1265:	7	4	4	7	3	3	10	7
1273:	5	10	8	8	5	6	6	10
1281:	19	10	8	4	5	4	0	6
1289:	8	5	5	9	1	7	4	6
1297:	7	7	8	6	3	3	3	7
1305:	5	5	1	2	7	8	4	0
1313:	6	4	4	1	5	6	7	2
1321:	6	3	2	1	5	2	4	6
1329:	9	7	3	4	4	5	6	3
1337:	4	5	8	2	4	7	3	3
1345:	4	3	1	3	3	5	5	3
1353:	4	10	2	5	4	3	4	7
1361:	3	0	6	9	2	4	6	3
1369:	2	3	4	2	6	2	1	14
1377:	28	29	11	2	1	7	6	6
1385:	7	11	5	3	3	5	3	2
1393:	5	2	4	5	1	3	4	2
1401:	11	12	7	6	2	8	15	20
1409:	9	3	1	2	4	4	9	4
1417:	1	1	9	2	3	6	0	4
1425:	5	5	4	4	4	0	3	9
1433:	5	5	1	1	1	1	2	3
1441:	5	5	2	7	2	3	4	6
1449:	2	2	5	5	10	5	4	2
1457:	2	7	27	105	140	65	7	6
1465:	6	4	4	2	7	4	3	2
1473:	3	6	2	3	3	4	3	4
1481:	4	6	6	2	3	4	4	1
1489:	5	4	5	3	2	4	3	6
1497:	1	6	2	2	5	10	5	1
1505:	3	3	6	9	12	14	4	5
1513:	7	2	3	0	3	3	1	4
1521:	3	2	4	2	1	3	2	4
1529:	3	2	5	4	3	1	6	3
1537:	3	6	7	11	4	5	4	7
1545:	1	2	6	4	1	3	5	0
1553:	3	4	4	1	6	0	3	2
1561:	3	2	2	3	0	2	2	2
1569:	4	2	1	1	1	1	2	2
1577:	1	2	2	1	5	5	8	7
1585:	2	3	2	6	2	4	3	5
1593:	5	9	5	1	3	0	2	6
1601:	1	3	4	2	3	2	6	0
1609:	2	4	3	4	3	4	5	4
1617:	2	3	3	1	2	0	5	4
1625:	3	1	4	1	2	0	5	0
1633:	2	1	1	3	3	4	2	2
1641:	1	1	3	2	1	2	0	0
1649:	1	2	2	3	3	2	3	1
1657:	3	3	1	4	6	6	4	0

1665:	2	0	1	1	5	1	1	1

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Channel								
1673:	3	1	2	0	3	2	4	2
1681:	3	1	3	1	1	1	1	1
1689:	2	2	1	4	3	4	3	1
1697:	1	1	2	0	2	2	1	3
1705:	0	2	0	2	0	2	0	0
1713:	0	1	0	0	1	2	0	1
1721:	1	2	2	0	1	1	3	10
1729:	23	14	8	2	2	4	2	2
1737:	0	1	1	1	0	1	3	2
1745:	1	1	0	3	1	0	1	1
1753:	2	0	2	2	2	1	0	2
1761:	3	8	42	77	79	19	5	4
1769:	3	1	2	0	0	3	0	2
1777:	0	1	2	3	0	0	1	0
1785:	2	2	2	1	0	2	1	1
1793:	0	2	2	1	1	1	1	0
1801:	2	1	0	2	0	2	2	2
1809:	0	0	0	1	0	0	0	2
1817:	1	3	1	0	0	0	1	1
1825:	3	2	2	1	2	0	3	1
1833:	2	1	1	1	1	5	3	1
1841:	1	1	1	2	4	8	11	6
1849:	4	2	0	2	2	1	0	2
1857:	1	2	3	2	2	1	1	1
1865:	2	2	1	1	2	0	1	3
1873:	3	4	1	1	1	3	2	1
1881:	1	1	0	1	3	2	1	2
1889:	0	2	1	0	0	0	1	2
1897:	4	1	3	0	0	0	2	0
1905:	1	1	2	1	1	0	0	3
1913:	3	1	1	0	2	2	1	1
1921:	0	1	4	1	3	2	1	2
1929:	0	1	1	2	1	0	1	3
1937:	0	1	0	0	1	0	3	1
1945:	1	0	3	0	1	0	0	0
1953:	0	0	0	0	0	1	1	2
1961:	1	2	1	2	1	1	3	2
1969:	1	1	1	2	2	1	1	4
1977:	5	2	3	0	1	0	1	2
1985:	2	0	1	0	1	0	2	0
1993:	0	2	3	1	1	2	0	0
2001:	1	1	1	1	3	2	0	1
2009:	0	0	2	0	1	1	1	1
2017:	0	1	2	0	2	2	3	2
2025:	1	1	0	0	0	1	0	1
2033:	0	1	2	2	2	1	1	2
2041:	1	2	1	2	1	1	1	0
2049:	1	1	1	3	0	0	2	2
2057:	1	0	1	1	2	0	2	2
2065:	0	0	1	0	0	1	1	0
2073:	0	1	1	2	0	1	0	2
2081:	2	2	0	0	4	1	0	1
2089:	0	0	0	0	2	1	0	0

2097:	0	1	0	0	1	2	1	2

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Channel								
2105:	0	1	1	0	1	4	0	0
2113:	0	1	0	1	2	2	7	1
2121:	0	0	0	0	1	0	0	0
2129:	2	2	1	1	1	0	1	3
2137:	0	0	0	1	0	2	0	1
2145:	0	0	2	0	1	0	1	0
2153:	0	1	0	1	1	1	0	2
2161:	0	1	1	2	0	0	2	2
2169:	1	1	0	2	0	1	1	0
2177:	1	1	0	0	1	1	0	1
2185:	1	1	2	2	0	0	2	1
2193:	0	0	1	2	3	0	2	1
2201:	3	6	21	10	7	3	1	0
2209:	1	0	0	0	1	2	0	0
2217:	0	0	0	0	1	0	1	1
2225:	0	1	0	0	0	0	1	0
2233:	0	1	0	0	1	0	0	0
2241:	0	0	0	1	0	0	2	0
2249:	0	2	0	0	2	0	0	0
2257:	0	1	1	1	1	1	1	1
2265:	1	2	1	1	0	0	0	1
2273:	3	0	0	0	1	1	1	0
2281:	1	0	1	0	0	2	0	0
2289:	2	0	1	2	1	1	3	0
2297:	0	0	0	1	0	0	0	1
2305:	0	2	1	0	0	1	1	2
2313:	0	1	1	0	0	0	4	1
2321:	0	1	0	0	0	0	1	1
2329:	2	1	1	0	0	0	0	0
2337:	1	0	1	1	0	0	1	0
2345:	1	1	0	1	0	0	0	0
2353:	1	2	1	1	1	0	1	0
2361:	1	0	0	0	1	1	0	0
2369:	1	0	0	0	1	0	1	0
2377:	0	0	0	0	0	0	0	0
2385:	0	0	2	1	1	0	0	0
2393:	0	0	1	1	1	1	2	0
2401:	0	0	1	0	0	1	1	0
2409:	0	0	0	0	0	1	2	2
2417:	1	0	0	0	0	2	1	0
2425:	0	0	0	0	3	1	0	1
2433:	1	0	0	0	1	2	0	0
2441:	1	0	0	0	1	8	3	0
2449:	1	0	2	1	0	2	1	0
2457:	2	1	1	0	0	0	1	2
2465:	0	2	0	0	1	1	2	0
2473:	0	0	0	0	1	0	0	3
2481:	0	1	0	0	1	0	0	1
2489:	0	0	0	1	0	0	0	1
2497:	1	0	0	0	0	0	0	0
2505:	0	1	1	0	0	1	0	1
2513:	0	0	0	0	0	1	0	0
2521:	0	1	1	0	0	0	0	0

2529:	2	0	1	2	0	1	0	0

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Channel								
2537:	0	1	1	1	2	0	0	1
2545:	0	0	0	2	0	0	0	1
2553:	0	2	0	0	2	0	1	0
2561:	0	0	0	0	0	0	0	3
2569:	0	0	1	0	1	0	0	0
2577:	2	0	0	0	0	0	2	0
2585:	0	0	0	2	0	1	0	0
2593:	2	0	0	0	1	0	0	0
2601:	0	0	0	0	0	0	0	0
2609:	0	2	2	6	8	12	6	0
2617:	1	0	0	0	1	0	0	1
2625:	0	0	0	0	0	0	0	0
2633:	1	0	0	0	0	0	0	1
2641:	1	0	0	0	1	0	0	1
2649:	0	0	0	0	0	0	1	2
2657:	0	0	0	1	1	0	1	1
2665:	1	0	0	1	0	1	0	0
2673:	0	0	0	0	0	0	1	1
2681:	1	1	0	0	1	1	0	1
2689:	0	1	0	0	0	0	1	0
2697:	0	0	0	0	1	0	1	0
2705:	0	1	1	0	0	0	0	1
2713:	0	0	1	0	0	0	0	1
2721:	1	0	0	0	1	0	0	0
2729:	0	1	0	0	1	0	0	2
2737:	1	0	0	0	0	0	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	1	1	1	0
2761:	0	0	0	1	0	0	0	1
2769:	0	1	1	0	0	0	1	0
2777:	0	1	0	0	0	0	1	1
2785:	0	1	1	0	1	0	0	0
2793:	0	0	1	1	0	0	0	0
2801:	0	0	0	0	1	0	0	0
2809:	0	1	1	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	1	0	0	0	1
2833:	1	0	0	0	0	0	0	0
2841:	0	0	0	1	0	0	0	1
2849:	1	0	0	0	0	0	1	0
2857:	0	0	0	0	0	0	0	1
2865:	0	0	0	0	1	0	0	0
2873:	0	0	1	0	1	2	0	0
2881:	1	0	1	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	1	0	0	0	0	0
2905:	0	1	0	0	0	1	1	0
2913:	1	3	1	0	0	0	0	1
2921:	0	0	0	0	0	0	1	0
2929:	0	0	1	2	0	0	0	0
2937:	1	0	1	0	0	0	0	0
2945:	0	0	1	1	0	1	0	0
2953:	0	0	1	0	1	1	0	0

2961:	0	0	0	0	1	0	0	1

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Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	1	0	1	0	0	0
2985:	1	1	0	0	1	1	0	1
2993:	0	0	0	0	0	0	0	0
3001:	1	0	0	0	1	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	1	1	0	0	0	0
3033:	0	1	0	1	0	0	0	0
3041:	1	1	0	0	0	0	0	0
3049:	1	0	1	0	0	0	0	0
3057:	0	0	1	0	1	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	1	0	0	0	0	0	0
3081:	1	0	0	0	0	0	0	1
3089:	1	1	1	0	0	0	0	0
3097:	0	0	0	0	0	1	0	0
3105:	0	1	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	1	0	1	1	0
3129:	1	0	0	1	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	1	0	0	0	1	0
3153:	0	0	1	0	0	0	0	0
3161:	0	0	1	0	0	0	0	0
3169:	0	0	0	0	0	1	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	1	1	0	1	1	0
3193:	0	1	0	0	0	0	0	1
3201:	0	0	0	0	2	0	1	1
3209:	0	0	0	1	1	0	0	0
3217:	0	0	0	0	0	0	2	0
3225:	0	0	0	0	0	1	0	0
3233:	0	0	1	0	0	0	1	0
3241:	0	1	0	0	0	1	1	0
3249:	0	0	0	0	0	0	1	0
3257:	0	0	0	1	0	0	0	1
3265:	0	0	0	1	0	0	0	0
3273:	0	0	0	0	1	0	0	0
3281:	3	0	0	0	0	0	1	1
3289:	0	0	0	0	1	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	1	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	1	0	0	0	0	0	0	0
3329:	0	1	0	0	1	0	0	0
3337:	1	0	0	0	1	0	0	0
3345:	0	0	0	0	1	0	0	1
3353:	0	0	0	0	0	0	0	0
3361:	1	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	1	1

3393:	0	0	0	0	1	0	2	0

Sample Title: FEEBRIS1D-13.093-094

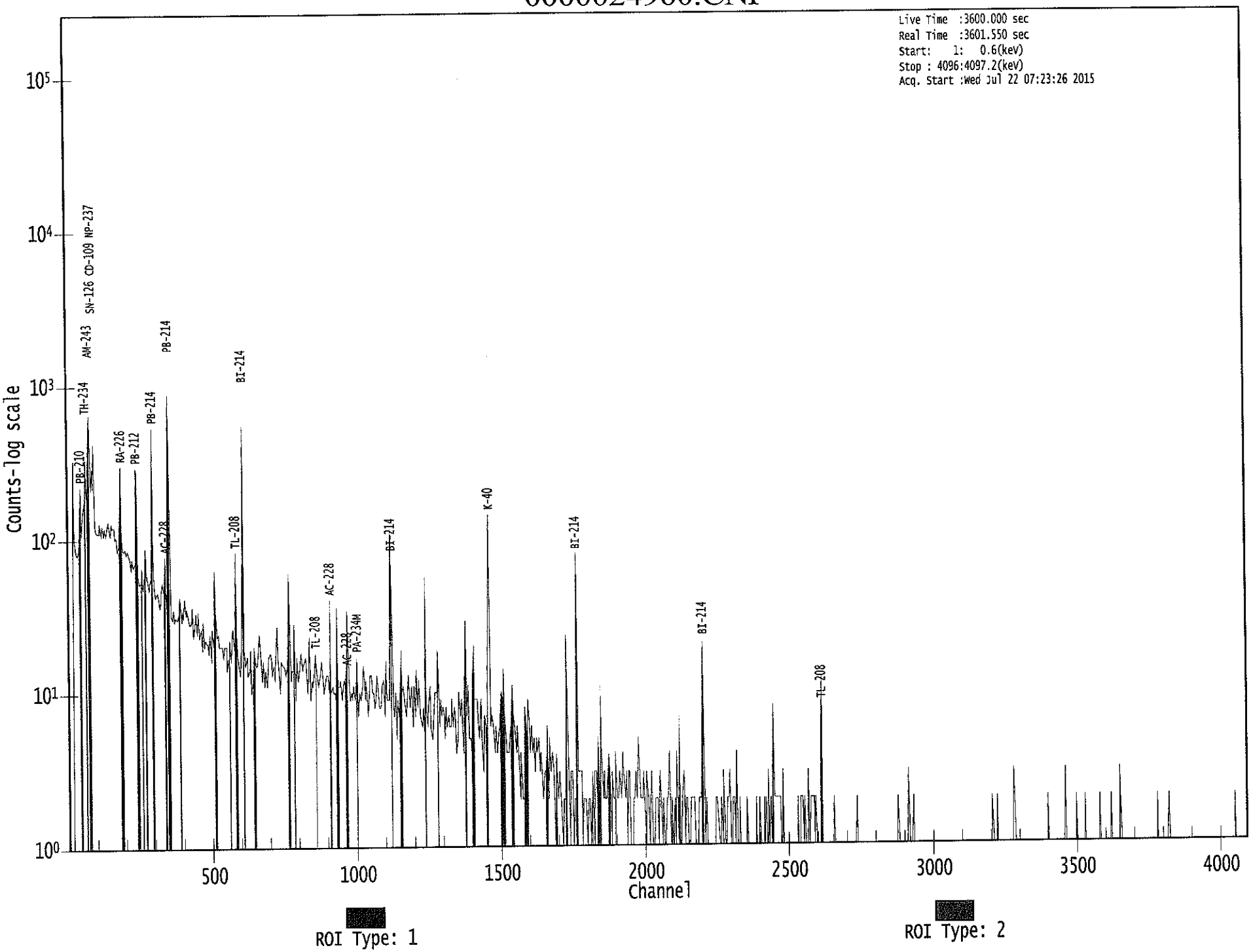
Channel								
3401:	1	1	0	0	0	0	0	0
3409:	0	0	1	1	0	0	0	1
3417:	0	1	0	1	0	0	0	0
3425:	0	0	0	1	0	0	0	0
3433:	1	1	0	0	1	0	0	0
3441:	1	0	1	0	0	1	0	0
3449:	1	0	0	0	0	0	0	1
3457:	0	0	0	3	0	0	1	0
3465:	1	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	2	0	0	1	1	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	1
3521:	0	0	0	0	1	0	0	2
3529:	0	1	0	0	0	0	1	0
3537:	0	0	0	0	0	1	0	0
3545:	0	0	0	0	0	0	1	0
3553:	1	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	1	0
3569:	0	1	0	0	0	0	0	1
3577:	0	0	0	2	0	1	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	1	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	1	1
3617:	1	0	2	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	1	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	3	0	1	1	0	0	0	1
3657:	0	0	1	0	0	0	0	0
3665:	0	0	0	0	0	1	1	0
3673:	0	0	0	1	0	1	0	0
3681:	1	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	1	0	0	0	0	0	0
3705:	0	0	0	1	0	0	0	0
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	0	0	1	0	0
3729:	0	0	1	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	1	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	1	0	0	0	0	0
3777:	0	0	0	2	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	1	1	0	0	1	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	1	0	0	0	0	0	1	0
3817:	0	0	0	2	0	0	0	1

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-13.093-094

Channel								
3833:	0	1	1	0	0	0	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	1	0	1	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	1	0	0	0	0	0	0	0
3873:	0	0	1	0	0	0	1	0
3881:	1	0	0	1	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	1	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	0	0	1
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	1
3953:	0	0	0	0	0	0	1	0
3961:	0	0	0	1	0	0	0	0
3969:	0	1	1	1	0	0	0	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	0	1	0	0	0	1
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	1
4025:	0	0	0	0	1	0	0	0
4033:	0	1	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	2	0	0	0	0	0
4057:	0	1	0	0	0	0	0	0
4065:	0	0	0	0	0	1	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	1
4089:	0	0	0	0	0	0	0	0

0000024960.CNF



****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/21/15 6:02:53 AM

7/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/21/15 5:47:39 AM
Measurement Date: 7/21/15 5:47:41 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 903.4 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3	1.6810E+003	-4.0100E-001
[SD: 2.3190E+003+/-1590.9]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
7/21/15 6:02:43 AM

7/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/21/15 5:47:31 AM
Measurement Date: 7/21/15 5:47:33 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2 [SD: 4.5799E+000+/- 0.282]	4.3378E+000	-8.5898E-001 < : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
7/21/15 5:32:53 AM

FRM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/21/15 5:16:56 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 947.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9770E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6168E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8362E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.8208E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	1.8962E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.3544E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.4890E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.8094E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Decay corrected activity	6.5237E+004	
Boundary Limits: [4.969E-002, 7.453E-002]		< : : : >

Decay corrected activity 1.0232E+005
Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity Boundary Limits: [1.713E-001, 2.569E-001]	2.2131E+005	< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
7/21/15 5:32:33 AM

FM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/21/15 5:16:48 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 931.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6153E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3648E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1241E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1289E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.5530E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5316E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 6.3501E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 1.0339E+005
Boundary Limits: [7.978E-002, 1.197E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 2.1984E+005
Boundary Limits: [1.714E-001, 2.571E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
7/22/15 6:13:08 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/22/15 5:57:54 AM
Measurement Date: 7/22/15 5:57:56 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1	2.2500E+000	2.3726E-001
[SD: 2.1620E+000+/- 0.371]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
7/22/15 5:43:31 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/22/15 5:27:49 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 929.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0248E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6184E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0600E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.6967E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.3608E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.4222E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4862E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.1970E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0685E+004	

Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.9291E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-06115 - Revised
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cobalt-60	LANL ER-130 Modified	1.37E+02	8.83E+00	1.13E+01	6.96E-01	5.92E-01	pCi/g
15-06115-01	LCS	SPIKE	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Cesium-137	LANL ER-130 Modified	8.69E+01	7.40E+00	8.64E+00	1.01E+00	5.03E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Actinium-228	LANL ER-130 Modified	3.60E-02	5.44E-02	5.45E-02	1.24E-01	5.25E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Bismuth-214	LANL ER-130 Modified	4.22E-02	3.59E-02	3.60E-02	7.54E-02	3.36E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Potassium-40	LANL ER-130 Modified	2.54E-01	2.05E-01	2.05E-01	4.95E-01	2.11E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Protactinium-231	LANL ER-130 Modified	-6.40E-02	7.37E-01	7.37E-01	1.10E+00	5.06E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Lead-210	LANL ER-130 Modified	4.48E-01	5.89E-01	5.90E-01	8.37E-01	3.98E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Lead-212	LANL ER-130 Modified	3.91E-02	3.05E-02	3.06E-02	5.51E-02	2.56E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Lead-214	LANL ER-130 Modified	-3.08E-02	5.41E-02	5.41E-02	7.66E-02	3.51E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Radium-226	LANL ER-130 Modified	4.22E-02	3.59E-02	3.60E-02	7.54E-02	3.22E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Radium-228	LANL ER-130 Modified	3.60E-02	5.44E-02	5.45E-02	1.24E-01	5.25E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Thorium-234	LANL ER-130 Modified	8.75E-01	3.96E-01	3.98E-01	6.63E-01	3.16E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/21/2015	15-06115	Thallium-208	LANL ER-130 Modified	1.31E-02	6.46E-02	6.46E-02	1.07E-01	4.74E-02	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Actinium-228	LANL ER-130 Modified	3.87E-01	2.05E-01	2.06E-01	3.57E-01	1.70E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Bismuth-214	LANL ER-130 Modified	3.29E+00	2.58E-01	3.08E-01	2.30E-01	1.12E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Potassium-40	LANL ER-130 Modified	6.64E+00	1.16E+00	1.21E+00	1.17E+00	5.52E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Protactinium-231	LANL ER-130 Modified	5.90E-01	1.41E+00	1.41E+00	2.33E+00	1.12E+00	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-210	LANL ER-130 Modified	2.13E+00	1.53E+00	1.53E+00	2.50E+00	1.23E+00	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-212	LANL ER-130 Modified	5.52E-01	1.02E-01	1.06E-01	2.65E-01	1.30E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-214	LANL ER-130 Modified	3.52E+00	2.80E-01	3.33E-01	2.40E-01	1.17E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-226	LANL ER-130 Modified	3.29E+00	2.58E-01	3.08E-01	2.30E-01	1.13E+00	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-228	LANL ER-130 Modified	3.87E-01	2.05E-01	2.06E-01	3.57E-01	1.70E-01	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thorium-234	LANL ER-130 Modified	2.97E+00	1.50E+00	1.51E+00	2.44E+00	1.20E+00	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thallium-208	LANL ER-130 Modified	4.82E-01	1.15E-01	1.17E-01	8.59E-02	1.65E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-06115 - Revised
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Actinium-228	LANL ER-130 Modified	4.63E-01	1.72E-01	1.73E-01	3.58E-01	1.71E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Bismuth-214	LANL ER-130 Modified	3.27E+00	2.60E-01	3.09E-01	1.57E-01	7.50E-02	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Potassium-40	LANL ER-130 Modified	7.38E+00	1.16E+00	1.22E+00	9.79E-01	4.58E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Protactinium-231	LANL ER-130 Modified	7.14E-01	1.35E+00	1.35E+00	2.26E+00	1.09E+00	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-210	LANL ER-130 Modified	2.63E+00	1.52E+00	1.53E+00	2.46E+00	1.21E+00	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-212	LANL ER-130 Modified	5.72E-01	1.09E-01	1.13E-01	2.69E-01	1.33E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Lead-214	LANL ER-130 Modified	3.47E+00	2.76E-01	3.28E-01	2.23E-01	1.09E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-226	LANL ER-130 Modified	3.27E+00	2.60E-01	3.09E-01	1.57E-01	1.44E+00	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Radium-228	LANL ER-130 Modified	4.63E-01	1.72E-01	1.73E-01	3.58E-01	1.71E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thorium-234	LANL ER-130 Modified	2.49E+00	1.21E+00	1.21E+00	2.79E+00	1.38E+00	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/22/2015	15-06115	Thallium-208	LANL ER-130 Modified	3.99E-01	9.06E-02	9.29E-02	1.19E-01	1.66E-01	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Actinium-227	EML Th-01 Modified	9.91E-03	3.03E-02	3.03E-02	7.18E-02	6.30E-03	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Actinium-227	EML Th-01 Modified	1.70E-01	1.27E-01	1.29E-01	1.25E-01	1.91E-02	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Actinium-227	EML Th-01 Modified	2.20E-02	5.50E-02	5.51E-02	1.15E-01	1.75E-02	pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	5.39E+00	1.45E-01				pCi/g
15-06115-01	LCS	LCS	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	6.57E+00	9.83E-01	1.28E+00	6.40E-02	6.72E-02	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	8.55E-02	7.20E-02	7.28E-02	6.12E-02	7.11E-02	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	2.96E+00	6.96E-01	7.86E-01	1.07E-01	1.05E-01	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-230	EML Th-01 Modified	2.90E+00	6.57E-01	7.48E-01	8.91E-02	9.35E-02	pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	4.83E+00	1.74E-01				pCi/g
15-06115-01	LCS	LCS	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	4.81E+00	7.65E-01	8.74E-01	8.02E-02	1.38E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	-7.47E-03	2.99E-02	3.00E-02	7.68E-02	8.96E-03	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	2.61E-01	1.50E-01	1.52E-01	8.48E-02	5.54E-03	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/13/2015	15-06115	Thorium-232	EML Th-01 Modified	2.29E-01	1.37E-01	1.39E-01	1.05E-01	1.46E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:	Work Order Details:	
Cecilia Greene	SDG:	15-06115 - Revised
Auxier & Associates, Inc.	Purchase Order:	ENG/BOR.1D
9821 Cogdill St, Suite 1	Analysis Category:	ENVIRONMENTAL
Knoxville, TN 37932	Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	8.05E+00	2.90E-01				pCi/g
15-06115-01	LCS	LCS	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	6.30E+00	8.89E-01	9.96E-01	6.24E-02	5.72E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	1.12E-01	8.40E-02	8.44E-02	7.82E-02	9.05E-03	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	2.65E+00	4.76E-01	5.12E-01	5.55E-02	5.07E-03	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-234	EML U-02 Modified	2.74E+00	4.77E-01	5.15E-01	6.24E-02	8.59E-03	pCi/g
15-06115-01	LCS	LCS	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	5.74E-01	2.00E-01	2.04E-01	7.70E-02	5.26E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	9.00E-03	3.76E-02	3.76E-02	9.64E-02	8.52E-03	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	1.95E-01	1.08E-01	1.09E-01	6.84E-02	4.65E-03	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-235	EML U-02 Modified	1.64E-01	9.85E-02	9.92E-02	8.19E-02	6.99E-04	pCi/g
15-06115-01	LCS	KNOWN	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	7.85E+00	2.83E-01				pCi/g
15-06115-01	LCS	LCS	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	6.56E+00	9.17E-01	1.03E+00	6.82E-02	7.57E-03	pCi/g
15-06115-02	MBL	BLANK	06/30/15 00:00	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	2.22E-03	3.11E-02	3.11E-02	8.88E-02	1.37E-02	pCi/g
15-06115-03	DUP	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	2.72E+00	4.84E-01	5.21E-01	6.91E-02	1.06E-02	pCi/g
15-06115-04	DO	FEEBRIS1D-13.093-094	06/12/15 14:15	6/29/2015	7/8/2015	15-06115	Uranium-238	EML U-02 Modified	2.78E+00	4.81E-01	5.21E-01	6.61E-02	7.86E-04	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD OAK RIDGE, TN 37830 865/481-0683 FAX 865/483-4621

00018 A EyT 08/06/15

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: ThISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.56E+00	8.58E-01	7.55E-02	4.83E+00	115.09	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	6.89E-03	4.32E-02	1.04E-01					OK	OK
03	TH-228	DUP	FEEBRIS1D-13.093-094	pCi/g	2.44E-01	1.55E-01	1.44E-01				NA	OK	
04	TH-228	DO	FEEBRIS1D-13.093-094	pCi/g	2.24E-01	1.36E-01	9.18E-02					OK	

Work Order: 15-06115-ThISO-2

Run	Analysis Code	Eberline Services Work Order	Client
2	ThISO	15-06115	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	06/30/15 00:00	1.00E+00	110.81	0.00	0.00			
02	TH-228	MBL	06/30/15 00:00	1.00E+00	109.82	0.00	0.00			
03	TH-228	DUP	06/12/15 14:15	7.54E-01	95.75	0.00	0.00			
04	TH-228	DO	06/12/15 14:15	7.54E-01	110.57	0.00	0.00			

Work Order: 15-06115-ThISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	ThISO	2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	07/13/15 11:06		A_Spec	Alpha_034	170	4.15 E+02	4.00 E-03	17.9
02	TH-228	MBL	07/13/15 11:06		A_Spec	Alpha_035	170	4.70 E-01	9.00 E-03	16.5
03	TH-228	DUP	07/13/15 11:06		A_Spec	Alpha_036	170	1.16 E+01	8.00 E-03	18.1
04	TH-228	DO	07/13/15 11:06		A_Spec	Alpha_037	170	1.17 E+01	2.00 E-03	17.1

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	ThISO	2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.57E+00	9.83E-01	6.40E-02	5.39E+00	122.03	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	8.55E-02	7.20E-02	6.12E-02					OK	OK
03	TH-230	DUP	FEEBRIS1D-13.093-094	pCi/g	2.96E+00	6.96E-01	1.07E-01				OK	OK	
04	TH-230	DO	FEEBRIS1D-13.093-094	pCi/g	2.90E+00	6.57E-01	8.91E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	ThISO	2

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	06/30/15 00:00	1.00E+00	110.81	0.00	0.00			
02	TH-230	MBL	06/30/15 00:00	1.00E+00	109.82	0.00	0.00			
03	TH-230	DUP	06/12/15 14:15	7.54E-01	95.75	0.00	0.00			
04	TH-230	DO	06/12/15 14:15	7.54E-01	110.57	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	ThISO	2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	07/13/15 11:06		A_Spec	Alpha_034	170	4.91 E+02	2.00 E-03	17.9
02	TH-230	MBL	07/13/15 11:06		A_Spec	Alpha_035	170	5.83 E+00	1.00 E-03	16.5
03	TH-230	DUP	07/13/15 11:06		A_Spec	Alpha_036	170	1.45 E+02	3.00 E-03	18.1
04	TH-230	DO	07/13/15 11:06		A_Spec	Alpha_037	170	1.56 E+02	2.00 E-03	17.1

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: ThISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	4.81E+00	7.65E-01	8.02E-02	4.83E+00	99.68	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	-7.47E-03	2.99E-02	7.68E-02					OK	OK
03	TH-232	DUP	FEEBRIS1D-13.093-094	pCi/g	2.61E-01	1.50E-01	8.48E-02				NA	OK	
04	TH-232	DO	FEEBRIS1D-13.093-094	pCi/g	2.29E-01	1.37E-01	1.05E-01					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Run	Analysis Code	Eberline Services Work Order	Client
2	ThISO	15-06115	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	06/30/15 00:00	1.00E+00	110.81	0.00	0.00			
02	TH-232	MBL	06/30/15 00:00	1.00E+00	109.82	0.00	0.00			
03	TH-232	DUP	06/12/15 14:15	7.54E-01	95.75	0.00	0.00			
04	TH-232	DO	06/12/15 14:15	7.54E-01	110.57	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	ThISO	2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	07/13/15 11:06		A_Spec	Alpha_034	170	3.60 E+02	0.00 E+00	17.9
02	TH-232	MBL	07/13/15 11:06		A_Spec	Alpha_035	170	-5.10 E-01	3.00 E-03	16.5
03	TH-232	DUP	07/13/15 11:06		A_Spec	Alpha_036	170	1.28 E+01	1.00 E-03	18.1
04	TH-232	DO	07/13/15 11:06		A_Spec	Alpha_037	170	1.23 E+01	4.00 E-03	17.1

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-06115
Analysis Code: ThISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	9.91E-03	3.03E-02	7.18E-02					OK	OK
03	TH-227	DUP	FEEBRIS1D-13.093-094	pCi/g	1.70E-01	1.27E-01	1.25E-01				NA	OK	
04	TH-227	DO	FEEBRIS1D-13.093-094	pCi/g	2.20E-02	5.50E-02	1.15E-01					OK	

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Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	06/30/15 00:00	1.00E+00	109.82	0.00	0.00			
03	TH-227	DUP	06/12/15 14:15	7.54E-01	95.75	0.00	0.00			
04	TH-227	DO	06/12/15 14:15	7.54E-01	110.57	0.00	0.00			

Run: 2
Analysis Code: ThISO
Eberline Services Work Order: 15-06115
Client: AMO Environmental Decisions

00115B
EJT 8/6/15

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-ThISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-06115	ThISO	2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
02	TH-227	MBL	07/13/15 11:06		A_Spec	Alpha_035	170	6.60 E-01	2.00 E-03	16.5
03	TH-227	DUP	07/13/15 11:06		A_Spec	Alpha_036	170	8.15 E+00	5.00 E-03	18.1
04	TH-227	DO	07/13/15 11:06		A_Spec	Alpha_037	170	1.15 E+00	5.00 E-03	17.1

001150

Preliminary Data Report & Analytical Calculations

Work Order: 15-06115-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.37E+02	8.83E+00	6.96E-01	1.37E+02	100.25	OK		06/30/15 00:00	1.00E+00	07/21/15 06:07	YES
01	CS-137	LCS	LCS	pCi/g	8.69E+01	7.40E+00	1.01E+00	8.69E+01	100.01	OK		06/30/15 00:00	1.00E+00	07/21/15 06:07	YES
02	AC-228	MBL	BLANK	pCi/g	3.60E-02	5.44E-02	1.24E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	BI-214	MBL	BLANK	pCi/g	4.22E-02	3.59E-02	7.54E-02					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	K-40	MBL	BLANK	pCi/g	2.54E-01	2.05E-01	4.95E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	PA-231	MBL	BLANK	pCi/g	-6.40E-02	7.37E-01	1.10E+00					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	PB-210	MBL	BLANK	pCi/g	4.48E-01	5.89E-01	8.37E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	PB-212	MBL	BLANK	pCi/g	3.91E-02	3.05E-02	5.51E-02					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	PB-214	MBL	BLANK	pCi/g	-3.08E-02	5.41E-02	7.66E-02					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	RA-226	MBL	BLANK	pCi/g	4.22E-02	3.59E-02	7.54E-02					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	RA-228	MBL	BLANK	pCi/g	3.60E-02	5.44E-02	1.24E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	TH-234	MBL	BLANK	pCi/g	8.75E-01	3.96E-01	6.63E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
02	TL-208	MBL	BLANK	pCi/g	1.31E-02	6.46E-02	1.07E-01					06/30/15 00:00	1.00E+00	07/21/15 06:07	NO
03	AC-228	DUP	FEEBRIS1D-13.093-094	pCi/g	3.87E-01	2.05E-01	3.57E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	BI-214	DUP	FEEBRIS1D-13.093-094	pCi/g	3.29E+00	2.58E-01	2.30E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	K-40	DUP	FEEBRIS1D-13.093-094	pCi/g	6.64E+00	1.16E+00	1.17E+00				NA	06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	PA-231	DUP	FEEBRIS1D-13.093-094	pCi/g	5.90E-01	1.41E+00	2.33E+00				NA	06/12/15 14:15	6.16E+02	07/22/15 06:17	NO
03	PB-210	DUP	FEEBRIS1D-13.093-094	pCi/g	2.13E+00	1.53E+00	2.50E+00				NA	06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	PB-212	DUP	FEEBRIS1D-13.093-094	pCi/g	5.52E-01	1.02E-01	2.65E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	PB-214	DUP	FEEBRIS1D-13.093-094	pCi/g	3.52E+00	2.80E-01	2.40E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	RA-226	DUP	FEEBRIS1D-13.093-094	pCi/g	3.29E+00	2.58E-01	2.30E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	RA-228	DUP	FEEBRIS1D-13.093-094	pCi/g	3.87E-01	2.05E-01	3.57E-01					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	TH-234	DUP	FEEBRIS1D-13.093-094	pCi/g	2.97E+00	1.50E+00	2.44E+00					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
03	TL-208	DUP	FEEBRIS1D-13.093-094	pCi/g	4.82E-01	1.15E-01	8.59E-02					06/12/15 14:15	6.16E+02	07/22/15 06:17	YES
04	AC-228	DO	FEEBRIS1D-13.093-094	pCi/g	4.63E-01	1.72E-01	3.58E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	BI-214	DO	FEEBRIS1D-13.093-094	pCi/g	3.27E+00	2.60E-01	1.57E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	K-40	DO	FEEBRIS1D-13.093-094	pCi/g	7.38E+00	1.16E+00	9.79E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	PA-231	DO	FEEBRIS1D-13.093-094	pCi/g	7.14E-01	1.35E+00	2.26E+00					06/12/15 14:15	6.16E+02	07/22/15 07:23	NO
04	PB-210	DO	FEEBRIS1D-13.093-094	pCi/g	2.63E+00	1.52E+00	2.46E+00					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	PB-212	DO	FEEBRIS1D-13.093-094	pCi/g	5.72E-01	1.09E-01	2.69E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	PB-214	DO	FEEBRIS1D-13.093-094	pCi/g	3.47E+00	2.76E-01	2.23E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	RA-226	DO	FEEBRIS1D-13.093-094	pCi/g	3.27E+00	2.60E-01	1.57E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	RA-228	DO	FEEBRIS1D-13.093-094	pCi/g	4.63E-01	1.72E-01	3.58E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	TH-234	DO	FEEBRIS1D-13.093-094	pCi/g	2.49E+00	1.21E+00	2.79E+00					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES
04	TL-208	DO	FEEBRIS1D-13.093-094	pCi/g	3.99E-01	9.06E-02	1.19E-01					06/12/15 14:15	6.16E+02	07/22/15 07:23	YES

ORNL 2015

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-07047-OR

August 6, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

15-07047

Eberline Services Work Order #_____

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		7/16/15	KC	Sample Log-In
		8/3/15	KBS	Data Compilation
		8-4-15	MLT	First Technical Data Review
		8/5/15	MSt	Second Technical Data Review
		08/06/15	EyT	Data Entry/Electronic Deliverable
		08/06/15	EyT	Case Narrative
		8/6/15	KBS	Electronic Deliverable Proof
		8/6/15	MSt	Samples Analyzed within Holding Time Yes? [X] No? [ ]
		8/6/15	MSt	QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: _____ 8/6/15

Laboratory Manager Date

Copy No. _____

Radiochemistry Services

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7142

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1-D	Project Number: ENG/BOR 1-D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 COG DILL RD ST #1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 8045 4989 6559
Phone: 865-675-3669	Laboratory Receiving:
Fax: 865-675-3677	

Page 1 of 1

15-07047

Purchase Order #: ENG/BOR 1-D

Analysis Requested

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	GAMMA SPEC	ISOTOPIC Th	ISOTOPIC URANIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRISID-3.028-029	7.6.15	1126	S	1	X	X	X		
5	FEEBRISID-3.041-043	7.6.15	1309	S	1	X	X	X		
6	DUPLICATE #2	7.6.15	1309	S	1	X	X	X		
7	FEEBRISID-12.061-062	7.6.15	1007	S	1	X	X	X		
8	FEEBRISID-12.07~~3~~4-075	7.6.15	1030	S	1	X	X	X		
9	FEEBRISID-15.077-080	7.2.15	1550	S	1	X	X	X		
10	FEEBRISID-15.085-086	7.2.15	1522	S	1	X	X	X		
11	FEEBRISID-11.085-086	7.2.15	1026	S	1	X	X	X		
12	FEEBRISID-11.087-088	7.2.15	1040	S	1	X	X	X		
	~~DUPLICATE #1~~ * KBD 7/9/15	6.12.15	1415	S	1	X	X	X		

RECD JUL 09 2015

* Did Not Receive
Client Notified
C. Greene / K. Shantis
7-9-15

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake	Kristen Coulston	7/9/15	1100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround	
Level I	☐	Routine	☒
Level II	☐	24 Hour	☐
Level III	☐	1 Week	☐
Other	☐	Other _____	

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

Chain of Custody Record

№ 7141

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: ENG/BOR 1-D	Project Number: ENG/BOR 1-D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9821 COGDILL RD ST#1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 8045 4989 6401
Phone: 865-675-3669	Laboratory Receiving:
Fax:	

Page 1 of 1

15-07047

Purchase Order #: ENG/BOR 1-D

Analysis Requested

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	GAMMA SPEC	ISOTOPIC Th	ISOTOPIC UR								Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
FEEBRISID-11-087-088	7/2/15	1040	S	1	X	X	X									

REC'D JUL 10 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Kristen Carlsten	7/10/15	820
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround	
Level I	☐	Routine	☒
Level II	☐	24 Hour	☐
Level III	☐	1 Week	☐
Other	☐	Other _____	

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07047
Lab Deadline	7/31/2015
Analysis	UUISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	38	C1.1
05	35	C1.1
06	41	C1.1
07	37	C1.1
08	37	C1.1
09	40	C1.1
10	43	C1.1
11	54	C1.1
12	31	C1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1030	Kmy scj	7-10-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0720	Kmy scj	7-14-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/14/15 0730
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/17/15 0830
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7-17-15 0830
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7/17/15 0801
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	0800
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KS 7/21/15 1159
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07047
Lab Deadline	See Comments
Analysis	UUISO - Level 4
Sample Matrix	SO

Comments

Re-Analysis: 2 7xn 06 only
Eyr 07/21/15

Original Lab Deadline: 08/06/15
Rerun Lab Deadline: 08/06/15

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	38	C1.1
05	35	C1.1
06	41	C1.1
07	37	C1.1
08	37	C1.1
09	40	C1.1
10	43	C1.1
11	54	C1.1
12	31	C1.1

	Location (circle one)					Technician Initials	
Received by	(Sample Storage)	Rough Prep	(Prep)	Separations	Count Room	[illegible] 7-22-15	0930
Relinquished by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	[illegible] 7/22/15	1145
Received by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	JPD 7/22/15	1145
Relinquished by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 7/24/15	0805
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	[illegible] 7/24	0805
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KD 7/24/15	1134
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07047
Lab Deadline	7/31/2015
Analysis	ThISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	38	C1.1
05	35	C1.1
06	41	C1.1
07	37	C1.1
08	37	C1.1
09	40	C1.1
10	43	C1.1
11	54	C1.1
12	31	C1.1

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room 1030	Kmy Scs	7-10-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 0720	Kmy Scs	7-10-15
Received by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JWolfe	7/11/15 0720
Relinquished by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JWolfe	7/17/15 0930
Received by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible]	7-17-15 0930
Relinquished by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible]	7/21/15 0900
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	[illegible]	7/21 0900
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	ICO	7/21/15 1501
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07047
Lab Deadline	7/31/2015
Analysis	Gamma - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
21 day ingrowth: Report Ac228, Bi214, Pb212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.	04	38	C1.1
	05	35	C1.1
	06	41	C1.1
	07	37	C1.1
	08	37	C1.1
	09	40	C1.1
	10	43	C1.1
	11	54	C1.1
	12	31	C1.1

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room 1030	Kenyseij	7-10-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 0850	Kenyseij	7.13.15
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room) 0830	JD	7/12
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)		0917 7/13/15
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

SECTION II

SAMPLE ACKNOWLEDGEMENT
&
CORRESPONDENCE

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	07/09/2015	28	15-07047
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	Bridgeton ENG/BOR 1-D	H	07/31/2015	08/05/2015	08/06/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																						Ttl
01	LCS	07/10/15	SO	C1.1	X	X	X																						3
02	BLANK	07/10/15	SO	C1.1	X	X	X																						3
03	DUP	07/10/15	SO	C1.1	X	X	X																						3
04	FEEBRISID-3 028-029	07/06/15 11:26	SO	C1.1	X	X	X																						3
05	FEEBRISID-3 041-043	07/06/15 13:09	SO	C1.1	X	X	X																						3
06	DUPLICATE 2	07/06/15 13:09	SO	C1.1	X	X	X																						3
07	FEEBRISID-12 061-062	07/06/15 10:07	SO	C1.1	X	X	X																						3
08	FEEBRISID-12 074-075	07/06/15 10:30	SO	C1.1	X	X	X																						3
09	FEEBRISID-15 077-080	07/02/15 15:50	SO	C1.1	X	X	X																						3
10	FEEBRISID-15 085-086	07/02/15 15:22	SO	C1.1	X	X	X																						3
11	FEEBRISID-11 085-086	07/02/15 10:26	SO	C1.1	X	X	X																						3
12	FEEBRISID-11 087-088	07/02/15 10:40	SO	C1.1	X	X	X																						3
																													0
																													0
																													0
																													0
																													0
																													0
																													0
																													0
	Totals Per Analysis (non QA samples)				9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		Report Data		
	Westlake LF OU-1 Resp		Cecilia Greene	Marsha Joseph
	AMO Environmental Decisions		Auxier & Associates, Inc.	Auxier, Inc.
	PO Box 410		9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Danboro, PA 18916		Knoxville, TN 37932	Knoxville, TN 37932
Voice	215-230-8282	*Voice*	865-675-0379	865-675-3669
Fax	215-230-8283	*Fax*	865-675-3677	865-675-3677
Contact	Marsha Joseph			
Voice	865-675-3669			
Fax	865-675-3677			

Printed: 7/10/2015 11:17 AM

Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-07047

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS (NON-AQUEOUS)

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kristen Carlsten DATE: 7/10/15

15-07047

Kathy Shaulis

From: Cecilia Greene <cgreene@auxier.com>
Sent: Thursday, July 09, 2015 5:05 PM
To: Kathy Shaulis
Cc: 'Beth Jansen'; 'Terri Eitt'
Subject: RE: Shipment

Yes. Beth, can you or Terri provide please? Thank you.

From: Kathy Shaulis [mailto:kathy.shaulis@eberlineservices.com]
Sent: Thursday, July 09, 2015 4:30 PM
To: Cecilia Greene
Subject: RE: Shipment
Importance: High

Do we still need to return the sample that we received two of? If so, need address and FedEx or UPS #.
Kathy

From: Cecilia Greene [mailto:cgreene@auxier.com]
Sent: Thursday, July 09, 2015 4:27 PM
To: Kathy Shaulis
Subject: Shipment

Well, the story has changed a little. They will not be sending you a Duplicate #1. Please line through that entry on the COC. You will receive FEEBRISID-11.087-088 tomorrow.

Thank you.

Cecilia Greene MPH, NRRPT
Auxier and Associates
865-675-3669 phone
865-675-3677 fax
cgreene@auxier.com

: 00014

15-07047

Kathy Shaulis

From: Cecilia Greene <cgreene@auxier.com>
Sent: Thursday, July 09, 2015 4:14 PM
To: Kathy Shaulis
Subject: RE: Samples Received 7/9/15

Kathy, one of the samples labeled FEEBRISID-12.061-062 was an EPA split and needs to be sent back to the site. It doesn't matter which one. You will receive two shipments tomorrow, one with FEEBRISID-11.087-088 and one with Duplicate #1. Why two shipments you ask....don't ask.

From: Kathy Shaulis [mailto:kathy.shaulis@eberlineservices.com]
Sent: Thursday, July 09, 2015 11:16 AM
To: 'cgreene@auxier.com'
Cc: Elizabeth Towery; OR Sample Login
Subject: Samples Received 7/9/15
Importance: High

Cecilia,
Today we received COC #7142 ENG/BOR 1-D.
We have 2 samples labeled FEEBRISID-12.061-062. We did not receive samples FEEBRISID-11.087-088 or Duplicate #1.
Please advise—also to whom should the invoice be sent?
Thanks,
Kathy

: 00015

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39471

August 6, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-07047-OR

SAMPLE RECEIPT

This work order contains nine soil samples received 07/09 & 10/2015. These samples were analyzed for Isotopic Uranium, Isotopic Thorium and by Gamma Spectroscopy.

CLIENT ID	LAB ID
FEEBRISID-3 028-029	15-07047-04
FEEBRISID-3 041-043	15-07047-05
DUPLICATE 2	15-07047-06
FEEBRISID-12 061-062	15-07047-07
FEEBRISID-12 074-075	15-07047-08
FEEBRISID-15 077-080	15-07047-09
FEEBRISID-15 085-086	15-07047-10
FEEBRISID-11 085-086	15-07047-11
FEEBRISID-11 087-088	15-07047-12

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

: 00017

ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

1st Analytical Attempt

Samples demonstrated acceptable results for all Uranium analyses. Sample fraction -06 (Client ID: DUPLICATE 2) demonstrated no chemical recovery. Chemical recovery was acceptable for all other samples. The Uranium-233/234, Uranium-235/236 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-233/234, Uranium-235/236 and Uranium-238 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

2nd Analytical Attempt

Sample fraction -06 (Client ID: DUPLICATE 2) was reanalyzed because it demonstrated no chemical recovery. Sample demonstrated acceptable results for all Uranium analyses. Chemical recovery was acceptable for all samples. The Uranium-233/234, Uranium-235/236 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-233/234, Uranium-235/236 and Uranium-238 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-227, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Thorium analyses. Actinium-227 was reported from Thorium-227. Chemical recovery was acceptable for all samples. The Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-230 and Thorium-232 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

Samples were dried, homogenized and placed into appropriate gamma spectroscopy geometry containers. Samples were then sealed for 21 days to allow for ingrowth of Radon-222 and progeny. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors. Energy lines from Lead-214 and Bismuth-214 were analyzed for determinations of Radium-226 activity.

ANALYTICAL RESULTS CONTINUED

GAMMA SPECTROSCOPY CONTINUED

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Potassium-40, Protactinium-231 and Lead-210 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 8/6/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07047
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07047-01	LCS	KNOWN	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-07047-01	LCS	KNOWN	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-07047-01	LCS	SPIKE	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Cobalt-60	LANL ER-130 Modified	1.40E+02	8.10E+00	1.08E+01	1.02E+00	9.61E-01	pCi/g
15-07047-01	LCS	SPIKE	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Cesium-137	LANL ER-130 Modified	9.22E+01	8.15E+00	9.42E+00	1.23E+00	6.12E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Actinium-228	LANL ER-130 Modified	5.81E-02	1.44E-01	1.44E-01	2.67E-01	1.15E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Bismuth-214	LANL ER-130 Modified	1.16E-01	6.98E-02	7.00E-02	9.56E-02	4.06E-02	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Potassium-40	LANL ER-130 Modified	0.00E+00	0.00E+00	0.00E+00	8.46E-01	3.51E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Protactinium-231	LANL ER-130 Modified	-1.03E+00	1.40E+00	1.40E+00	1.99E+00	9.19E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Lead-210	LANL ER-130 Modified	1.75E-01	3.02E-01	3.02E-01	4.95E-01	2.36E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Lead-212	LANL ER-130 Modified	8.74E-03	5.83E-02	5.83E-02	9.50E-02	4.44E-02	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Lead-214	LANL ER-130 Modified	1.95E-02	7.74E-02	7.74E-02	1.31E-01	6.02E-02	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Radium-226	LANL ER-130 Modified	1.16E-01	6.98E-02	7.00E-02	9.56E-02	6.25E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Radium-228	LANL ER-130 Modified	5.81E-02	1.44E-01	1.44E-01	2.67E-01	1.15E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Thorium-234	LANL ER-130 Modified	2.68E-01	4.10E-01	4.10E-01	6.65E-01	3.18E-01	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/31/2015	15-07047	Thallium-208	LANL ER-130 Modified	-2.23E-02	1.36E-01	1.36E-01	2.07E-01	9.29E-02	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	2.14E+00	3.05E+00	3.05E+00	4.76E+00	2.33E+00	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	1.88E+02	1.03E+01	1.41E+01	3.24E+00	1.60E+00	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	1.05E+01	9.96E+00	9.97E+00	1.65E+01	8.05E+00	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	-9.38E+02	1.18E+02	1.28E+02	4.71E+01	2.33E+01	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	1.14E+02	1.42E+01	1.53E+01	1.94E+01	9.66E+00	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	3.98E+01	4.49E+00	4.93E+00	3.31E+00	1.65E+00	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	2.05E+02	1.63E+01	1.94E+01	3.59E+00	1.78E+00	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	1.88E+02	1.03E+01	1.41E+01	3.24E+00	2.09E+01	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	2.14E+00	3.05E+00	3.05E+00	4.76E+00	2.33E+00	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	2.35E+02	2.27E+01	2.57E+01	2.39E+01	1.19E+01	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	-1.37E-01	9.90E-01	9.90E-01	1.59E+00	1.74E+00	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

12989

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07047
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	1.27E+00	2.95E+00	2.96E+00	4.59E+00	2.24E+00	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	1.84E+02	1.02E+01	1.39E+01	3.56E+00	1.76E+00	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	1.16E+01	9.48E+00	9.50E+00	1.56E+01	7.59E+00	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	-9.13E+02	1.15E+02	1.24E+02	4.68E+01	2.32E+01	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	1.37E+02	1.55E+01	1.70E+01	2.02E+01	1.01E+01	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	3.88E+01	4.39E+00	4.82E+00	3.30E+00	1.64E+00	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	2.02E+02	1.61E+01	1.92E+01	4.57E+00	2.27E+00	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	1.84E+02	1.02E+01	1.39E+01	3.56E+00	2.06E+01	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	1.27E+00	2.95E+00	2.96E+00	4.59E+00	2.24E+00	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	2.32E+02	2.25E+01	2.55E+01	2.39E+01	1.19E+01	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	-6.42E-01	9.87E-01	9.88E-01	1.82E+00	1.73E+00	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	7.43E-01	2.43E-01	2.46E-01	4.45E-01	2.03E-01	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	1.22E+00	2.22E-01	2.30E-01	3.19E-01	1.51E-01	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	8.48E+00	1.58E+00	1.64E+00	9.98E-01	4.27E-01	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	9.73E-01	2.09E+00	2.09E+00	3.42E+00	1.61E+00	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	2.71E+00	1.85E+00	1.86E+00	2.99E+00	1.44E+00	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	5.48E-01	1.34E-01	1.37E-01	3.23E-01	1.57E-01	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	1.41E+00	2.03E-01	2.15E-01	2.95E-01	1.40E-01	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	1.22E+00	2.22E-01	2.30E-01	3.19E-01	1.33E+00	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	7.43E-01	2.43E-01	2.46E-01	4.45E-01	2.03E-01	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	1.14E+00	2.00E+00	2.00E+00	2.63E+00	1.28E+00	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	4.81E-01	1.75E-01	1.77E-01	2.75E-01	2.03E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	2.88E-01	3.23E-01	3.24E-01	5.79E-01	2.65E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	4.15E-01	2.14E-01	2.15E-01	5.67E-01	2.73E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	4.61E+00	1.33E+00	1.35E+00	1.15E+00	4.79E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	1.29E-02	2.87E+00	2.87E+00	3.85E+00	1.79E+00	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	4.30E+00	2.91E+00	2.91E+00	4.69E+00	2.26E+00	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	3.77E-01	1.27E-01	1.28E-01	2.79E-01	1.34E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	4.87E-01	2.32E-01	2.34E-01	4.24E-01	2.03E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	4.15E-01	2.14E-01	2.15E-01	5.67E-01	1.50E+00	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	2.88E-01	3.23E-01	3.24E-01	5.79E-01	2.65E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	2.49E+00	1.12E+00	1.12E+00	2.08E+00	9.90E-01	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	2.88E-01	1.85E-01	1.85E-01	3.64E-01	2.35E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-07047
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	-3.74E-01	6.70E-01	6.70E-01	8.62E-01	3.58E-01	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	5.76E-01	4.66E-01	4.67E-01	7.41E-01	3.40E-01	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	3.13E+00	1.78E+00	1.79E+00	1.77E+00	6.06E-01	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	-8.97E-01	5.26E+00	5.26E+00	7.24E+00	3.28E+00	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	4.96E+00	3.87E+00	3.88E+00	5.91E+00	2.80E+00	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	3.67E-01	2.64E-01	2.65E-01	4.69E-01	2.20E-01	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	1.33E-02	3.69E-01	3.69E-01	5.71E-01	2.61E-01	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	5.76E-01	4.66E-01	4.67E-01	7.41E-01	2.50E+00	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	-3.74E-01	6.70E-01	6.70E-01	8.62E-01	3.58E-01	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	7.49E+00	2.95E+00	2.97E+00	5.09E+00	2.43E+00	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	-5.25E-01	5.63E-01	5.63E-01	7.22E-01	3.15E-01	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	1.09E+00	2.24E-01	2.31E-01	4.03E-01	1.90E-01	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	1.02E+00	1.69E-01	1.77E-01	2.29E-01	1.24E-01	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	1.22E+01	1.69E+00	1.80E+00	1.00E+00	4.57E-01	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	2.22E-01	1.46E+00	1.46E+00	2.40E+00	1.14E+00	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	1.58E+00	1.39E+00	1.40E+00	2.30E+00	1.12E+00	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	1.26E+00	1.64E-01	1.76E-01	3.15E-01	1.55E-01	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	9.67E-01	1.45E-01	1.54E-01	2.11E-01	1.01E-01	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	1.02E+00	1.69E-01	1.77E-01	2.29E-01	1.58E+00	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	1.09E+00	2.24E-01	2.31E-01	4.03E-01	1.90E-01	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	2.45E+00	1.67E+00	1.68E+00	2.75E+00	1.35E+00	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	1.06E+00	1.74E-01	1.82E-01	1.17E-01	1.53E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	4.94E-01	2.08E-01	2.10E-01	5.53E-01	2.63E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	7.03E-01	1.84E-01	1.88E-01	2.96E-01	1.42E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	1.22E+01	1.89E+00	1.99E+00	1.04E+00	4.68E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	-1.50E-01	1.90E+00	1.90E+00	2.47E+00	1.17E+00	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	2.43E+00	1.76E+00	1.76E+00	2.79E+00	1.35E+00	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	6.59E-01	1.17E-01	1.21E-01	2.12E-01	1.03E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	7.84E-01	1.44E-01	1.50E-01	2.39E-01	1.15E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	7.03E-01	1.84E-01	1.88E-01	2.96E-01	1.03E+00	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	4.94E-01	2.08E-01	2.10E-01	5.53E-01	2.63E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	9.66E-01	9.18E-01	9.19E-01	1.50E+00	7.23E-01	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	5.91E-01	1.55E-01	1.57E-01	2.14E-01	1.81E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original;
CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-07047
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	2.36E-01	4.21E-01	4.22E-01	6.76E-01	3.19E-01	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	8.82E+00	7.22E-01	8.52E-01	4.79E-01	2.31E-01	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	2.59E+00	1.16E+00	1.17E+00	1.61E+00	7.34E-01	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	6.73E+00	4.06E+00	4.07E+00	6.34E+00	3.08E+00	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	1.47E+01	3.21E+00	3.30E+00	7.04E+00	3.48E+00	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	8.78E-01	3.02E-01	3.06E-01	4.64E-01	2.28E-01	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	1.02E+01	7.16E-01	8.87E-01	5.81E-01	2.84E-01	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	8.82E+00	7.22E-01	8.52E-01	4.79E-01	2.85E+00	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	2.36E-01	4.21E-01	4.22E-01	6.76E-01	3.19E-01	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	9.17E-01	2.07E+00	2.07E+00	4.05E+00	1.99E+00	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	2.13E-01	2.95E-01	2.95E-01	4.69E-01	2.23E-01	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	1.10E+00	4.39E-01	4.42E-01	7.98E-01	3.91E-01	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	2.44E+01	1.37E+00	1.86E+00	5.47E-01	2.70E-01	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	8.30E+00	1.62E+00	1.67E+00	2.03E+00	9.86E-01	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	4.70E+00	3.83E+00	3.84E+00	6.12E+00	3.02E+00	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	2.90E+01	4.74E+00	4.97E+00	5.74E+00	2.85E+00	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	8.70E-01	2.94E-01	2.97E-01	7.21E-01	3.58E-01	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	2.83E+01	1.64E+00	2.19E+00	6.16E-01	3.05E-01	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	2.44E+01	1.37E+00	1.86E+00	5.47E-01	2.84E+00	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	1.10E+00	4.39E-01	4.42E-01	7.98E-01	3.91E-01	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	2.31E-01	2.56E+00	2.56E+00	4.93E+00	2.45E+00	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	5.35E-01	1.29E-01	1.32E-01	8.72E-02	3.38E-01	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Actinium-228	LANL ER-130 Modified	6.82E-01	1.74E-01	1.78E-01	2.92E-01	1.37E-01	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Bismuth-214	LANL ER-130 Modified	7.33E-01	1.21E-01	1.26E-01	1.71E-01	8.16E-02	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Potassium-40	LANL ER-130 Modified	5.27E+00	9.96E-01	1.03E+00	7.88E-01	3.59E-01	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Protactinium-231	LANL ER-130 Modified	6.07E-01	1.55E+00	1.55E+00	2.04E+00	9.71E-01	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Lead-210	LANL ER-130 Modified	1.96E+00	1.31E+00	1.31E+00	2.08E+00	1.01E+00	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Lead-212	LANL ER-130 Modified	6.21E-01	1.07E-01	1.12E-01	2.03E-01	9.93E-02	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Lead-214	LANL ER-130 Modified	9.07E-01	1.36E-01	1.44E-01	1.50E-01	7.14E-02	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Radium-226	LANL ER-130 Modified	7.33E-01	1.21E-01	1.26E-01	1.71E-01	9.60E-01	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Radium-228	LANL ER-130 Modified	6.82E-01	1.74E-01	1.78E-01	2.92E-01	1.37E-01	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Thorium-234	LANL ER-130 Modified	2.11E+00	1.23E+00	1.23E+00	1.99E+00	9.77E-01	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	8/3/2015	15-07047	Thallium-208	LANL ER-130 Modified	5.71E-01	1.14E-01	1.18E-01	1.46E-01	1.00E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07047
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	5.51E-02	6.67E-02	6.70E-02	9.36E-02	1.25E-02	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	4.15E+00	8.49E-01	9.92E-01	7.96E-02	8.87E-03	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	4.10E+00	8.53E-01	9.92E-01	1.03E-01	1.95E-02	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	2.12E-02	3.61E-02	3.62E-02	6.10E-02	5.35E-03	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	-8.56E-03	2.61E-02	2.61E-02	7.10E-02	9.42E-03	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	7.61E-02	6.81E-02	6.88E-02	7.27E-02	8.13E-03	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	-2.09E-04	2.22E-02	2.22E-02	6.59E-02	1.13E-02	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	6.59E-03	2.01E-02	2.02E-02	4.77E-02	4.20E-03	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	3.18E-01	1.21E-01	1.28E-01	4.80E-02	4.20E-03	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	9.50E-01	2.55E-01	2.80E-01	6.43E-02	8.55E-03	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	7/21/2015	15-07047	Actinium-227	EML Th-01 Modified	3.01E-02	3.66E-02	3.68E-02	4.44E-02	2.70E-03	pCi/g
15-07047-01	LCS	KNOWN	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	5.37E+00	1.45E-01				pCi/g
15-07047-01	LCS	SPIKE	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	6.51E+00	1.01E+00	1.29E+00	8.71E-02	6.95E-02	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	1.35E-01	9.87E-02	1.00E-01	9.14E-02	8.83E-02	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	6.16E+02	1.03E+02	1.28E+02	8.86E-02	8.31E-02	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	5.76E+02	9.75E+01	1.21E+02	9.16E-02	7.28E-02	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	1.59E+00	3.79E-01	4.27E-01	7.02E-02	6.79E-02	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	7.33E-01	2.18E-01	2.36E-01	5.87E-02	6.26E-02	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	7.27E-01	2.27E-01	2.45E-01	5.64E-02	6.70E-02	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	3.45E-01	1.28E-01	1.35E-01	4.26E-02	5.04E-02	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	1.96E-01	9.30E-02	9.61E-02	5.83E-02	5.48E-02	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	3.09E+01	4.84E+00	6.16E+00	4.66E-02	5.00E-02	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	1.19E+02	1.90E+01	2.41E+01	6.66E-02	6.25E-02	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	7/21/2015	15-07047	Thorium-230	EML Th-01 Modified	1.38E+00	3.16E-01	3.59E-01	6.22E-02	4.95E-02	pCi/g

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EBERLINE SERVICES
EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD OAK RIDGE, TN 37830 865/481-0683 FAX 865/483-4621

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07047
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07047-01	LCS	KNOWN	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	4.88E+00	1.76E-01				pCi/g
15-07047-01	LCS	SPIKE	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	4.78E+00	7.87E-01	8.93E-01	6.93E-02	6.38E-03	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	2.41E-02	4.60E-02	4.60E-02	8.49E-02	9.85E-03	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	3.54E+00	7.41E-01	8.04E-01	7.75E-02	8.98E-03	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	4.07E+00	8.43E-01	9.16E-01	6.36E-02	4.09E-03	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	2.11E-01	1.09E-01	1.11E-01	7.45E-02	1.23E-03	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	9.81E-02	7.36E-02	7.41E-02	7.35E-02	1.21E-03	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	1.60E-01	9.53E-02	9.63E-02	5.63E-02	3.64E-03	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	1.66E-01	8.65E-02	8.77E-02	5.75E-02	7.92E-03	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	4.30E-02	5.63E-02	5.64E-02	9.16E-02	3.57E-02	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	3.12E-01	1.20E-01	1.23E-01	6.15E-02	1.09E-02	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	1.35E+00	3.22E-01	3.43E-01	5.31E-02	4.87E-03	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	7/21/2015	15-07047	Thorium-232	EML Th-01 Modified	2.57E-01	1.09E-01	1.11E-01	4.32E-02	2.78E-03	pCi/g
15-07047-01	LCS	KNOWN	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	8.07E+00	2.91E-01				pCi/g
15-07047-01	LCS	SPIKE	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	7.26E+00	1.80E+00	1.88E+00	2.42E-01	2.80E-02	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	7.08E-03	2.95E-02	2.96E-02	7.59E-02	8.77E-03	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	8.93E+00	1.25E+00	1.40E+00	6.15E-02	3.95E-03	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	9.36E+00	1.36E+00	1.52E+00	7.82E-02	7.17E-03	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	2.20E-01	1.08E-01	1.09E-01	6.61E-02	7.63E-03	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	7/24/2015	15-07047	Uranium-234	EML U-02 Modified	1.46E-01	1.02E-01	1.03E-01	9.75E-02	1.60E-03	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	1.07E-01	7.65E-02	7.69E-02	5.68E-02	3.64E-03	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	2.30E-01	1.11E-01	1.12E-01	7.08E-02	9.78E-03	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	1.44E-01	8.85E-02	8.91E-02	7.18E-02	9.88E-03	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	4.62E-01	1.54E-01	1.58E-01	6.14E-02	7.10E-03	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	1.48E+00	3.13E-01	3.30E-01	7.24E-02	1.19E-03	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	7/21/2015	15-07047	Uranium-234	EML U-02 Modified	8.59E-01	2.35E-01	2.43E-01	9.11E-02	1.93E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

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SDG: 15-07047
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07047-01	LCS	SPIKE	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	9.38E-01	4.95E-01	4.99E-01	2.98E-01	2.64E-02	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	-6.06E-03	3.60E-02	3.60E-02	8.53E-02	5.81E-03	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	7.27E-01	2.43E-01	2.49E-01	1.09E-01	9.30E-04	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	5.92E-01	2.29E-01	2.32E-01	1.14E-01	1.21E-02	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	0.00E+00	4.31E-02	4.31E-02	9.32E-02	7.94E-04	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	7/24/2015	15-07047	Uranium-235	EML U-02 Modified	4.01E-02	6.83E-02	6.83E-02	1.20E-01	1.03E-03	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	1.39E-02	3.34E-02	3.34E-02	7.00E-02	3.16E-03	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	2.84E-02	4.34E-02	4.34E-02	6.47E-02	2.93E-03	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	-5.34E-03	3.16E-02	3.16E-02	7.50E-02	5.11E-03	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	3.59E-02	4.99E-02	4.99E-02	7.57E-02	6.69E-03	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	7.45E-02	7.20E-02	7.22E-02	8.93E-02	7.62E-04	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	7/21/2015	15-07047	Uranium-235	EML U-02 Modified	6.53E-02	7.35E-02	7.37E-02	1.03E-01	1.43E-02	pCi/g
15-07047-01	LCS	KNOWN	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	7.86E+00	2.83E-01				pCi/g
15-07047-01	LCS	SPIKE	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	8.43E+00	2.03E+00	2.12E+00	2.19E-01	1.89E-02	pCi/g
15-07047-02	MBL	BLANK	07/10/15 00:00	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	7.05E-03	2.94E-02	2.94E-02	7.55E-02	8.37E-03	pCi/g
15-07047-03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	8.48E+00	1.20E+00	1.34E+00	8.80E-02	1.05E-03	pCi/g
15-07047-04	DO	FEEBRISID-3 028-029	07/06/15 11:26	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	9.27E+00	1.35E+00	1.51E+00	9.77E-02	1.16E-03	pCi/g
15-07047-05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	2.76E-01	1.22E-01	1.24E-01	7.52E-02	8.94E-04	pCi/g
15-07047-06	TRG	DUPLICATE 2	07/06/15 13:09	7/9/2015	7/24/2015	15-07047	Uranium-238	EML U-02 Modified	5.65E-02	6.45E-02	6.46E-02	8.50E-02	9.42E-03	pCi/g
15-07047-07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	7.67E-02	6.59E-02	6.61E-02	6.48E-02	5.57E-03	pCi/g
15-07047-08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	2.12E-01	1.14E-01	1.15E-01	1.12E-01	3.93E-02	pCi/g
15-07047-09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	7.79E-02	6.70E-02	6.73E-02	7.58E-02	1.17E-02	pCi/g
15-07047-10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	4.77E-01	1.58E-01	1.61E-01	6.98E-02	8.31E-04	pCi/g
15-07047-11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	1.41E+00	3.02E-01	3.18E-01	6.31E-02	6.99E-03	pCi/g
15-07047-12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	7/9/2015	7/21/2015	15-07047	Uranium-238	EML U-02 Modified	7.36E-01	2.16E-01	2.23E-01	1.08E-01	3.24E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

SECTION V

ANALYTICAL STANDARDS

QA/QC REVIEWED
Date 1/16/95 Initials WK

U-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution: 65.2896 g in a 50 ml flame sealed ampoule
b. Chemical form: Uranyl Nitrate in H2O
c. Carrier content: None
d. Density: Approximately 1.3202 g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration: ±3.0%
b. Random uncertainty in assay: ±0.0%
c. Random uncertainty in weighing(s): ±2.0%
d. Total uncertainty at the 99% confidence level: ±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC, ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
3017 N. SAN FERNANDO BLVD.
BURBANK, CALIFORNIA 91504
818·843·7000 FAX 818·843·6168

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 479-50 SOLUTION #: U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide: $^{234, 235, 238}U$ Reference Date: 1/1/1995 0:00
Certified Activity: 8.016E+00 µCi
Certified Concentration: µCi per gram

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution
Uranyl nitrate in dilute HNO_3

Dilution Instructions: **Dilution Solvent Used** 1M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 8.0160 µCi **Which Equals** 1.780E+07 **dpm at the date listed above**

And after dilution the activity of this solution is 1.77955E+04 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	IPL 479-50	**Date**	9/2/2014 0:00
		Solution #	U-8a

Principal Radionuclide	**Half Life, Years**	**Half Life, Days**
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest $^{234, 235, 238}U$
Parent Solution Conc. 1.7796E+04 **dpm/ml**

Reference Date 1/1/1995 0:00

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 4.0000 **ml**
Total Activity: 7.1182E+04 **dpm**
Final Volume: 1000.00 **ml**

Final Activity Concentration: 7.1182E+01 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.35€ grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Method of measurement (see reverse of this certificate)

Accuracy Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity The isotopic composition, expressed as atom per cent at the reference date .

Not measured

Chemical Composition Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory

Roger Wiltshire

Project Ref. AE2315

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

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MP-009

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Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 11/11/2014 0:00

SOLUTION REFERENCE # AEA/Amersham 92/232/67 **SOLUTION #** U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide ^{232}U **Reference Date** 3/1/2000 0:00

Certified Activity 9.760E-01 µCi

Certified Concentration µCi per gram

Ampoule /Solution Gross Weight, Grams

Empty Ampoule Weight, Grams

Solution Net Weight, Grams

Total Activity in Ampoule 0.9760 µCi

Chemical Composition of Standard Solution

$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions: **Dilution Solvent Used** 2M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.9760 µCi **Which Equals** 2.167E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.167E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/3/14

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	AEA/Amersham 92/232/67	Date	11/11/2014 0:00
		Solution #	U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest	^{232}U	Reference Date	3/1/2000 0:00
Parent Solution Conc.	2.167E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions: **Dilution Solvent Used** 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000 ml	Final Activity Concentration:	2.1670E+01 dpm/ml
Total Activity:	2.1670E+04 dpm		
Final Volume:	1000.00 ml		

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

QA/QC REVIEWED
Date 10/14/91 Initials MT 10/14/91 MT

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 μCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 μCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

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RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 4/15/2015 0:00

SOLUTION REFERENCE # IPL 388-116 **SOLUTION #** Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide ^{230}Thorium
Reference Date 11/1/1991 0:00
Certified Activity 1.036E+00 µCi
Certified Concentration µCi per gram

Ampoule /Solution Gross	9.2660	Weight, Grams
Empty Ampoule	4.6218	Weight, Grams
Solution Net	4.6442	Weight, Grams
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used 0.1N HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0360 µCi **Which Equals** 2.300E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.300E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

EBERLINE SERVICES | QUALITY CONTROL PROGRAM
MP-009

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	IPL 388-116	Date	4/15/2015 0:00
		Solution #	Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest: ^{230}Thorium
Parent Solution Conc.: 2.30E+03 dpm/ml

Reference Date: 11/1/1991 0:00

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2999E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2999E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405 ± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 µCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)	
b. Chemical form:	Th(NO3)4 in water	
c. Carrier content:	None added	
d. Density:	Approx. 1.21	g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 µCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

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Rev.8; 1/10/03
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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 9/2/2014 0:00

SOLUTION REFERENCE # IPL 435-104-2 **SOLUTION #** Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide $^{232\&228}Th$
Certified Activity 9.330E-02 µCi
Certified Concentration µCi per gram

Reference Date 11/1/1993 0:00

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in H_2O

Dilution Instructions: **Dilution Solvent Used** 1% Nitric Acid

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.0933 µCi **Which Equals** 2.071E+05 **dpm at the date listed above**

And after dilution the activity of this solution is 2.071E+02 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 1/10/03
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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	IPL 435-104-2	**Date**	9/2/2014 0:00
		Solution #	Th-8b

Principal Radionuclide	**Half Life, Years**	**Half Life, Days**
$^{228\ \&\ 232}$Th	1.405E+10	5.132E+12

Radionuclide of Interest $^{228\ \&\ 232}$Th
Parent Solution Conc. 2.07E+02 dpm/ml

Reference Date 11/1/1993 0:00

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions:

Dilution Solvent Used 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 500.0000 ml
Total Activity: 1.0355E+05 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 1.0355E+02 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity:** (Th-229 only)	1.013 µCi 37.48 kBq

Physical Description:

A.	Mass of solution:	5.0147 g in 5 mL flame-sealed ampoule
B.	Chemical form:	$Th(NO_3)_4$ in 0.1M HNO_3
C.	Carrier content:	10µg Th/mL
D.	Density:	1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.

Peak energy used for integration:	193.5 keV
Branching ratio used:	0.0441 gammas per decay

Uncertainty of Measurement:

A.	Type A (random) uncertainty:	± 0.7 %
B.	Type B (systematic) uncertainty:	± 3.0 %
C.	Uncertainty in aliquot weighing:	± 0.0 %
D.	Total uncertainty at the 99% confidence level:	± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

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Rev.8; 1/10/03
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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 867-54 | SOLUTION #: Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide: ^{229}Th
Reference Date: 1/15/2002 0:00
Certified Activity: 1.013E+00 µCi
Certified Concentration: µCi per gram

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1 M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 1.0130 µCi Which Equals 2.249E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.249E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 867-54	Solution #	Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide of Interest: ^{229}Th
Parent Solution Conc.: 2.25E+03 dpm/ml

Reference Date: 1/15/2002 0:00

Chemical Composition of Standard Solution
$TH(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2490E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2490E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404·352·8677
Fax 404·352·2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1402

98503

Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ANA Form005 Rev. ---

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

: 00044

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	UUISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		89.92%	25.84%	100.00%	3.60%	8.07E+00	2.91E-01	7.26E+00	1.88E+00	U-8a	3.52E+01	3.60E+00	5.09E-01
U-238		107.16%	25.15%	100.00%	3.60%	7.86E+00	2.83E-01	8.43E+00	2.12E+00	U-8a	3.44E+01	3.60E+00	5.08E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

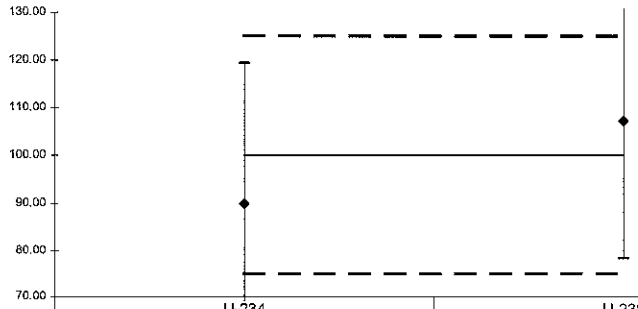
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	0.40	4.67	9.36E+00	1.52E+00	8.93E+00	1.40E+00
U-238	0.77	8.90	9.27E+00	1.51E+00	8.48E+00	1.34E+00
U-235	0.78	20.51	5.92E-01	2.32E-01	7.27E-01	2.49E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.90	OK				OK	OK
1.07	OK				OK	OK
	OK				NA	OK

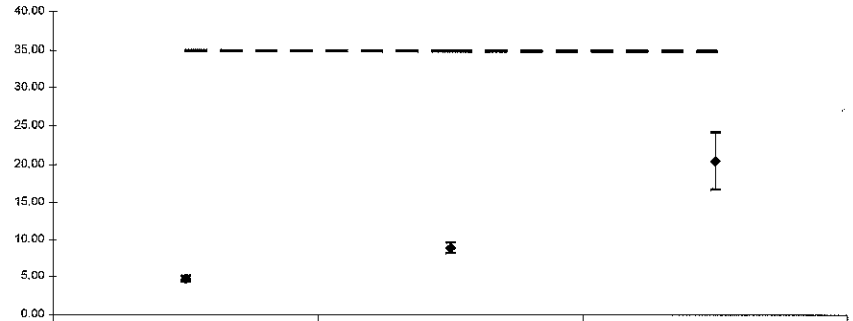
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	UUISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



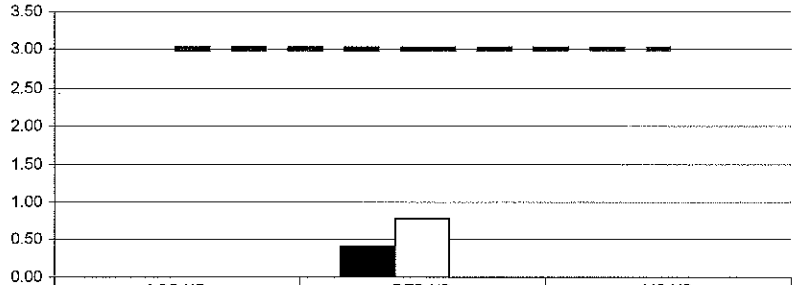
	U-234	U-238
Lower Error	60.48	78.41
Upper Error	119.37	135.92
%R	89.92	107.16
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	5.04	9.62	24.25
Upper Error	4.30	8.19	16.77
RPD	4.67	8.90	20.51
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	0.40	0.00
U-238	0.00	0.77	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	UUISO	2	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		90.11%	16.57%	100.00%	3.60%	8.15E+00	2.93E-01	7.34E+00	1.22E+00	U-8a	3.52E+01	3.60E+00	5.13E-01
U-238		92.39%	16.58%	100.00%	3.60%	7.94E+00	2.86E-01	7.34E+00	1.22E+00	U-8a	3.44E+01	3.60E+00	5.13E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

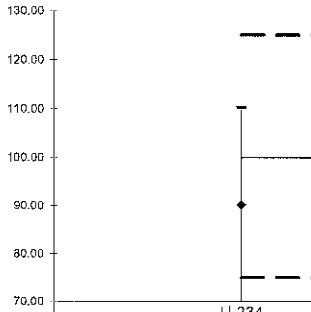
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	0.71	32.71	1.46E-01	1.03E-01	2.04E-01	1.19E-01
U-238	0.75	53.11	5.65E-02	6.46E-02	9.74E-02	8.52E-02
U-235	0.74	121.14	4.01E-02	6.83E-02	9.85E-03	4.11E-02

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.90	OK				NA	OK
0.92	OK				NA	OK
	OK				NA	OK

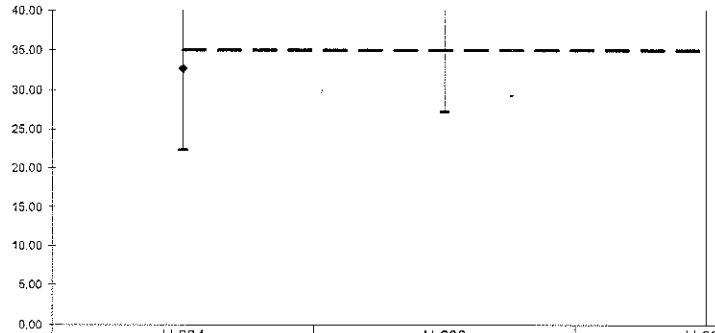
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	UUISO	2	pCi	g	AMO Environmental Decisions

LCS % Recovery



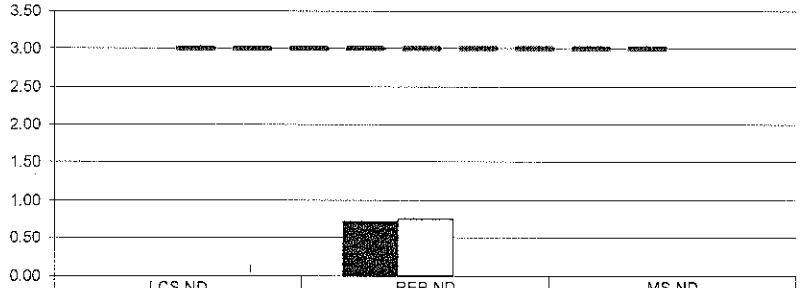
	U-234	U-238
Lower Error	69.94	72.21
Upper Error	110.29	112.57
%R	90.11	92.39
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	43.06	78.97	253.76
Upper Error	22.35	27.26	-11.49
RPD	32.71	53.11	121.14
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	0.71	0.00
U-238	0.00	0.75	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	ThISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		105.29%	18.76%	100.00%	3.60%	4.88E+00	1.76E-01	5.14E+00	9.65E-01	Th-8b	1.04E+02	3.60E+00	1.05E-01
TH-230		121.07%	19.84%	100.00%	2.70%	5.37E+00	1.45E-01	6.51E+00	1.29E+00	Th-1b	2.35E+01	2.70E+00	5.07E-01
TH-232		97.84%	18.68%	100.00%	3.60%	4.88E+00	1.76E-01	4.78E+00	8.93E-01	Th-8b	1.04E+02	3.60E+00	1.05E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

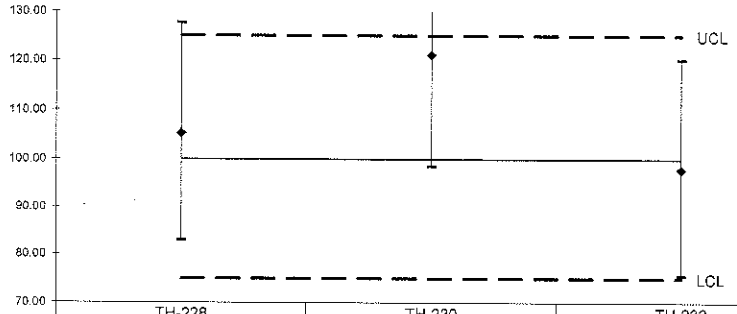
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	1.13	42.61	2.19E-01	1.30E-01	3.37E-01	1.59E-01
TH-230	0.44	6.69	5.76E+02	1.21E+02	6.16E+02	1.28E+02
TH-232	0.85	13.90	4.07E+00	9.16E-01	3.54E+00	8.04E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.05	OK				INV	OK
1.21	OK				OK	OK
0.98	OK				OK	OK

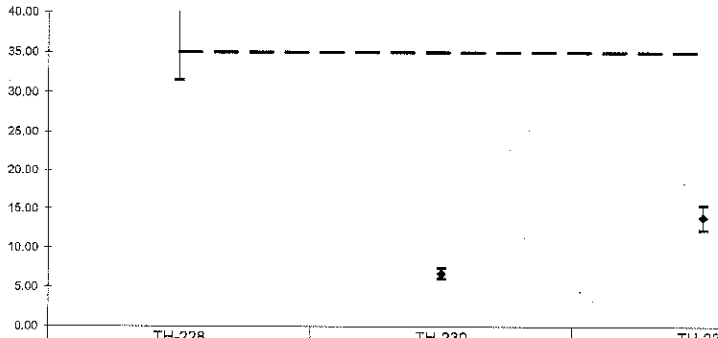
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	ThISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



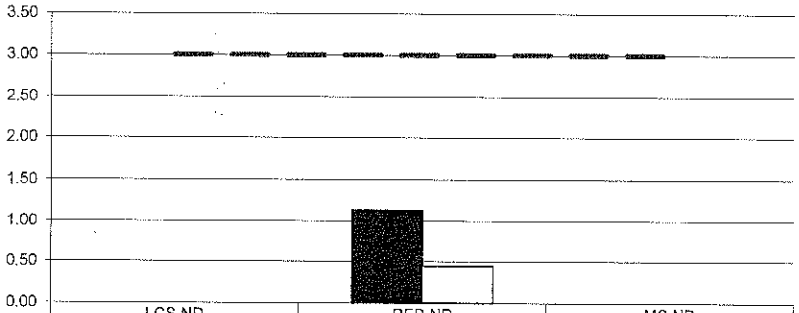
	TH-228	TH-230	TH-232
Lower Error	82.94	98.53	75.56
Upper Error	127.65	143.60	120.12
%R	105.29	121.07	97.84
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	53.66	7.39	15.48
Upper Error	31.56	6.00	12.33
RPD	42.61	6.69	13.90
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	1.13	0.00
TH-230	0.00	0.44	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	Gamma	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		102.39%	7.72%	100.00%	4.00%	1.37E+02	5.48E+00	1.40E+02	1.08E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		106.01%	10.23%	100.00%	4.00%	8.69E+01	3.48E+00	9.22E+01	9.42E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

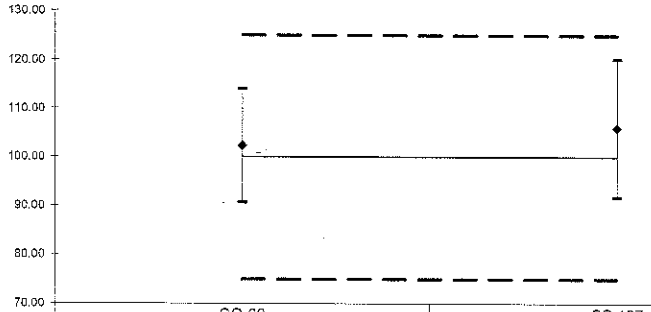
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
K-40	0.16	10.11	1.16E+01	9.50E+00	1.05E+01	9.97E+00
PA-231	0.27	2.71	-9.13E+02	1.24E+02	-9.38E+02	1.28E+02
PB-210	1.99	18.44	1.37E+02	1.70E+01	1.14E+02	1.53E+01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.02	OK		<CS-137	K-40>	NA	
1.06	OK		<CO-60	PA-231>	NA	OK
				PB-210>	NA	OK

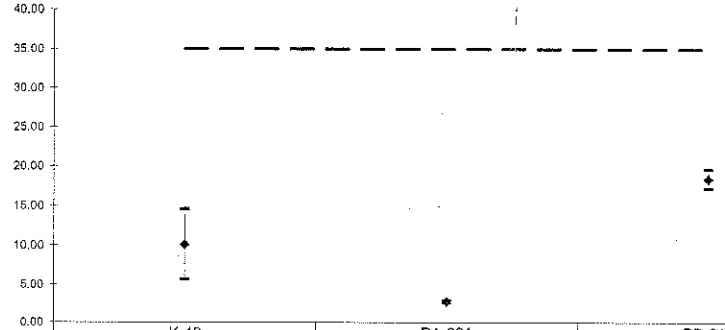
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07047	Gamma	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



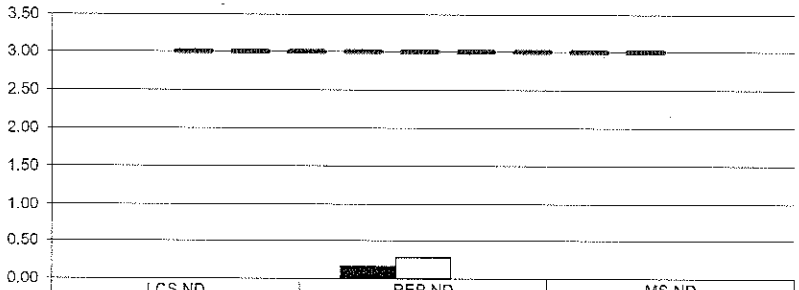
	CO-60	CS-137
Lower Error	90.67	91.78
Upper Error	114.11	120.24
%R	102.39	106.01
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	K-40	PA-231	PB-210
Lower Error	14.59	2.52	19.63
Upper Error	5.64	2.89	17.26
RPD	10.11	2.71	18.44
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.16	0.00
CS-137	0.00	0.27	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

Run 1

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/17/15 04:09	PREP	JWOLFE	DIGESTED SAMPLES WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWolfe
7/17/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/17/15 04:09	PREP	JWOLFE	DIGESTED SAMPLES WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/20/15 17:07	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

7/20/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/17/15 04:09	PREP	JWOLFE	DIGESTED SAMPLES WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/20/15 17:07	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	07/21/15 05:09	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

7-21-15
DM

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/17/15 04:09	PREP	JWOLFE	DIGESTED SAMPLES WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/20/15 17:07	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	07/21/15 05:09	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)
4	07/21/15 06:18	CHEM	TSMITH	1507047 fraction 6 did not react properly when precipitated. Heavy precipitation and took longer to filter.

7-21-15

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order: 15-07047

Analysis Code: UUISO

Run: 1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	7/17/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	7/17/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	7/17/2015
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/20/2015
016550S	HCl - HF	6.5N - 0.04N	JDEMELAS	7/20/2015
016128D01	Hydrochloric Acid	0.5N	JDEMELAS	7/20/2015
016521S	Hydrochloric Acid	6.5N	JDEMELAS	7/20/2015
016586S	Hydrochloric Acid	8N	JDEMELAS	7/20/2015
016546P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/20/2015
016595S	HCl - NH4I	8N - 0.1M	JDEMELAS	7/20/2015
016581S	Carbon substrate	Solution	TSMITH	7/21/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/21/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	7/21/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/21/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	7/21/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
7/17	SECCAL(33-48)	LAB	0520	2hr	NA	(
7/17	SECCAL(49-60)	LAB	0819	2hr	NA	(
7/17	1507065A(1-4)	Parsons	0815	5hr35	Pu/Iso	—
7/17	1507022A(1-4)	UCOR	0816	2hr5	Un/Iso	—
7/17	1507022ANT(4)	UCOR	0816	2hr5	UNNT	—
7/17	1507022A(1-4,6)	UCOR	0817	2hr5	Pu/Iso	—
7/17	1507022A(1)	UCOR	0818	2hr5	Pu242	—
7/17/15	1507022A(1-4)	UCOR	1055	2hr50	ISO-Th	KB
7/17/15	1507022A(1-4)	UCOR	1056	2hr50	Np	KB
7/17/15	1507022A(4)	UCOR	1115	2hr50	ISO-PU	KB
7/17/15	1507022A(4)	UCOR	1114	2hr50	Pu242	KB
7/17/15	System Bkgd	Lab	1438	16.40 hr	—	KB
7/18/15	Daily Pulser	Lab	0917	10min	NA	AG
7/20	Daily Pulser	LAB	0524	1	NA	—
7/20	1507015B(4)	UCOR	0841	2hr5	Am243	—
7/20	1507098A(1-4)	UCOR	0842	2hr5	Un/Iso	—
7/20	1507071A(1-4)	Solutient	0842	2hr5	Un/Iso	—
7/20	1507069A(1-4,9)	UCOR	0843	2hr5	Pu/Iso	—
7/20	1507069A(1-4)	UCOR	0844	2hr5	Pu242	—
7/20	1507027A(1-4)	Washington	0844	2hr5	Pu/Iso	—
7/20	1507069ANT(4)	UCOR	0845	2hr5	UNNT	—
7/20	1507065A(1-4)	Parsons	0845	5hr35	Am241	—
7/20/15	1507069A(4)	UCOR	1142	2hr50	Th229	KB
7/20/15	1507071A(1-4)	Solutient Tech	1143	2hr50	ISO-Th	KB
7/20/15	1507022A(1-4)	UCOR	1144	2hr50	Am241	KB
7/20/15	1507022A(1-4)	UCOR	1145	2hr50	Am243	KB
7/20/15	1507069A(1-4)	UCOR	1146	2hr50	ISO-Th	KB
7/20/15	1507069A(1-4)	UCOR	1147	2hr50	Ra6	KB
7/20/15	1507093A(1-11)	Access	1446	2hr50	Ra6	KB
7/21	Daily Pulser	LAB	0518	1	NA	—
7/21	1507069A(4)	UCOR	0844	2hr5	Am243	—
7/21	1507047A(1-12)	APO	0847	2hr5	Un/Iso	—
7/21	1507100A(1-4)	Washington	0847	2hr5	Un/Iso	—
7/21	1507100A(1-4)	Washington	0848	2hr5	Pu/Iso	—

ISO U NOTES

Run 2

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	UUISO
Run Number	2

#	Date	Dept	User	Notes
1	07/22/15 09:53	CHEM	TSMITH	Aliquoted samples from dilutions. Added spike and tracers to samples. Placed samples on hotplate and took to dryness. Took samples to seperations.

2-22-15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	UUISO
Run Number	2

#	Date	Dept	User	Notes
1	07/22/15 09:53	CHEM	TSMITH	Aliquoted samples from dilutions. Added spike and tracers to samples. Placed samples on hotplate and took to dryness. Took samples to seperations.
2	07/23/15 18:37	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100 ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

7/23/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	UUISO
Run Number	2

#	Date	Dept	User	Notes
1	07/22/15 09:53	CHEM	TSMITH	Aliquoted samples from dilutions. Added spike and tracers to samples. Placed samples on hotplate and took to dryness. Took samples to seperations.
2	07/23/15 18:37	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	07/24/15 05:06	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

7-24-15
JM

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-07047	
Analysis Code	Run
UUISO	2

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/23/2015
016574S	HCl - HF	6.5N - 0.04N	JDEMELAS	7/23/2015
016128D01	Hydrochloric Acid	0.5N	JDEMELAS	7/23/2015
016521S	Hydrochloric Acid	6.5N	JDEMELAS	7/23/2015
016597S	Hydrochloric Acid	8N	JDEMELAS	7/23/2015
016546P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/23/2015
016610S	HCl - NH4I	8N - 0.1M	JDEMELAS	7/23/2015
016581S	Carbon substrate	Solution	TSMITH	7/24/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/24/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	7/24/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/24/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	7/24/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
7/24	Daily Pulser	LAB	0505	1	NA	
7/24	SGCCAL(37-48)	LAB	0522	2h7	NA	
7/24	SGCCAL(42-60)	LAB	0755	2h7	NA	
7/24	1507121A(1-4)	UCON	0878	2h5	Am241	
7/24	1507121A(1-4)	UCON	0874	2h5	Am247	—
7/24	1507047B(1-7,6)	APRO	0877	2h5	UNFSO	—
7/24	1507070A(1-7)	UNITECH	0877	2h5	UNFSO	—

ISO TH NOTES

: 00068

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/17/15 04:09	PREP	JWOLFE	DIGESTED SAMPLES WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWolfe
7/17/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/17/15 04:09	PREP	JWOLFE	DIGESTED SAMPLES WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/20/15 17:08	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

7/20/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07047
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/17/15 04:09	PREP	JWOLFE	DIGESTED SAMPLES WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/20/15 17:08	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
3	07/21/15 05:11	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Thorium)

7-21-15
TSM

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-07047	
Analysis Code	Run
ThISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	7/17/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	7/17/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	7/17/2015
016397P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/20/2015
016586S	Hydrochloric Acid	8N	JDEMELAS	7/20/2015
016546P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/20/2015
016576S	Nitric Acid	8N	JDEMELAS	7/20/2015
016403P	Nitric Acid	Reagent Grade	JDEMELAS	7/20/2015
016581S	Carbon substrate	Solution	TSMITH	7/21/2015
016288S	Cerrium Carrier	0.1mg/ml	TSMITH	7/21/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/21/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/21/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analyst	Tech
7/21	1507117A(1-4)	Fed & Enviro	0848	2hr50	Rab	C
7/21	1507053A(1,2)	Unitech	0849	2hr50	Pufso	—
7/21/15	1507047A(1-12)	AMO Env.	1148	2hr50	ISO-Th	KB
7/21/15	1507049A(1-5)	Accutest	1149	2hr50	Rab	KB
7/21/15	1507053A(1-4)	Unitech	1150	2hr50	Np	KB
7/21/15	1507053A(1-4)	Unitech	1151	2hr50	UU	KB

GAMMA NOTES

GE 1

DATE	Sample #	Client	Load Time	CT. Time	Analysis	Tech
7/30/15	1507103-01	UCOR	1120	15 min	Ba	KB
7/31	G4714	LAB	0519	15	✓	C
7/31	Daily B	LAB	0578	15	✓	C
7/31/15	1507124-01	Test America	1047	15 mins	Ba	KB
7/31/15	1507124-06	Test America	1104	15 mins	Ba	KB
7/31/15	1507133-01	GRACE	1124	15 mins	Ba	KB
8/1/15	System Oksel	Lab	0713	24 hr	✓	KB
8/3	G4714	LAB	0529	15	✓	C
8/3	Daily B	LAB	0556	15	✓	C
8/3	1507047-05	AMO	0615	7L	✓	—
8/3	1507047-08	AMO	0712	7L	✓	—
8/3	1507047-11	AMO	0825	7L	✓	—

DATE	Sample #	Client	Lab Time	CT Time	Analysis	Tech
7/29/15	1507115-03	Accutest	1112	15 mins	Ba	KB
7/29/15	1507088-02	Test America	1128	15 mins	Ba	KB
7/29/15	1507088-04	Test America	1144	15 mins	Ba	KB
7/29/15	1507088-10	Test America	1200	15 mins	Ba	KB
7/29/15	1507088-14	Test America	1214	15 mins	Ba	KB
7/30	CFS-1401	LAB	0527	15	✓	C
7/30	Daily B	LAB	0548	15	✓	C
7/30	1507178-05	Solutient	0754	IL	✓	C
7/30	1507178-08	Solutient	0858	IL	✓	C
7/30	1507178-12	Solutient	0959	IL	✓	C
7/30/15	1507103-02	LION	1121	15 mins	Ba	KB
7/31	CFS 1401	LAB	0519	15	✓	C
7/31	Daily B	LAB	0538	15	✓	C
7/31/15	1507124-02	Test America	1047	15 mins	Ba	KB
7/31/15	1507124-07	Test America	1104	15 mins	Ba	KB
7/31/15	1507133-02	Grace	1124	15 mins	Ba	KB
8/1/15	System Blank	Lab	0713	24 hr	✓	KB
8/1	CFS 1401	LAB	0529	15	✓	C
8/1	Daily B	LAB	0550	15	✓	C
8/1	1507047-06	Amo	0615	IL	✓	C
8/1	1507047-09	Amo	0719	IL	✓	C
8/1	1507047-12	Amo	0825	IL	✓	C

GE 3

DATE	SAmple #	Client	LoadTime	CT.Time	Analysis	Tech
7/29/15	1507115-04	Accutest	1112	15 mins	Ba	KB
7/29/15	1507-088-03	Test America	1128	15 mins	Ba	KB
7/29/15	1507088-07	Test America	1144	15 mins	Ba	KB
7/29/15	1507088-11	Test America	1200	15 mins	Ba	KB
7/29/15	1507088-15	Test America	1214	15 mins	Ba	KB
7/29/15	1507088-17	Test America	1233	15 mins	Ba	KB
7/30	CAS1402	LAB	0527	15	✓	C
7/30	Daily B	LAB	0548	15	✓	C
7/30	1507178-06	Solutient	0754	1h	✓	C
7/30	1507178-09	Solutient	0858	1h	✓	C
7/30	1507178-02	Solutient	0959	1h	✓	C
7/30	1507178-01	Solutient	1100	30	✓	C
7/30/15	1507103-04	UCON	1132	15 mins	Ba	KB
7/31	CAS1402	LAB	0579	15	✓	C
7/31	Daily B	LAB	0578	15	✓	C
7/31	1507047-01	AMO	0758	30 min	✓	—
7/31	1507059-01	MPA	0831	30	✓	—
7/31/15	1507124-03	Test America	1047	15 mins	Ba	KB
7/31/15	1507124-08	Test America	1104	15 mins	Ba	KB
7/31/15	1507133-03	Grace	1125	15 mins	Ba	KB
8/1/15	System Blegel	Lab	0713	24 hr	✓	KB
8/3	CAS1402	LAB	0529	15	✓	C
8/3	Daily B	LAB	0556	15	✓	—
8/3	1507047-07	AMO	0615	1h	✓	C
8/3	1507047-10	AMO	0719	1h	✓	C

GE 4

DATE	SAmple #	Client	Load Time	CT Time	Analysis	Tech
7/28/15	1507164-02	TexCom	1651	30mins	γ	KB
7/28/15	1507164-01	TexCom	1722	30mins	γ	KB
7/28/15	1507167-01	TexCom	1753	30mins	γ	KB
7/28/15	1507167-02	TexCom	1825	1 hr	γ	KB
7/29	GHW 14	LAB	0524	15	✓	C
7/29	Daily B	LAB	0553	15	✓	C
7/29	1507164-14	Texcom	0615	30	✓	—
7/29	1507164-18	Texcom	0652	30	✓	—
7/29	1507159-01	UCOR	0723	30	✓	—
7/29/15	1507159-04	UCOR	1025	15 mins	Ba	KB
7/29/15	1507125-04	Test America	1041	15 mins	Ba	KB
7/29/15	1507115-01	Accutest	1057	15 mins	Ba	KB
7/29/15	1507115-05	Accutest	1113	15 mins	Ba	KB
7/29/15	1507088-04	Test America	1128	15 mins	Ba	KB
7/29/15	1507088-08	Test America	1144	15 mins	Ba	KB
7/29/15	1507088-12	Test America	1201	15 mins	Ba	KB
7/29/15	1507088-16	Test America	1217	15 mins	Ba	KB
7/29/15	1507088-18	Test America	1233	15 mins	Ba	KB
7/30	GHW 14	LAB	0523	15	✓	C
7/30	Daily B	LAB	0548	15	✓	C
7/30	1507178-07	Solutient	0754	30	✓	C
7/30	1507178-10	Solutient	0858	30	✓	C
7/30/15	1507103-03	UCOR	1121	15mins	Ba	KB
7/31	GHW 14	LAB	0519	15	✓	C
7/31	Daily B	LAB	0538	15	✓	C
7/31	1507047-02	Atmos	0758	30	✓	C

GE 4

DATE	SAmple #	Client	Load Time	CT Time	Analysis	Tech
8/7	GHO 14	LAB	0529	15	✓	[illegible]
8/7	[illegible]	LAB	0556	15	✓	[illegible]
8/7	1507047-03	Amo	0615	7L	✓	[illegible]
8/7	1507047-04	Amo	0719	7L	✓	

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

RUN 1

15-07047
UUISO
Run 1

Work Order	15-07047
Analysis Code	UUISO
Run	1
Date Received	7/9/2015
Lab Deadline	7/31/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.69
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/10/15 00:00	1.0000E+00
02	MBL	BLANK		07/10/15 00:00	1.0000E+00
03	DUP	FEEBRISID-3 028-029	38	07/06/15 11:26	1.0000E+00
04	DO	FEEBRISID-3 028-029	38	07/06/15 11:26	1.0000E+00
05	TRG	FEEBRISID-3 041-043	35	07/06/15 13:09	1.1430E+00
06	TRG	DUPLICATE 2	41	07/06/15 13:09	1.0005E+00
07	TRG	FEEBRISID-12 061-062	37	07/06/15 10:07	1.0155E+00
08	TRG	FEEBRISID-12 074-075	37	07/06/15 10:30	1.1920E+00
09	TRG	FEEBRISID-15 077-080	40	07/02/15 15:50	1.3080E+00
10	TRG	FEEBRISID-15 085-086	43	07/02/15 15:22	1.2220E+00
11	TRG	FEEBRISID-11 085-086	54	07/02/15 10:26	1.1740E+00
12	TRG	FEEBRISID-11 087-088	31	07/02/15 10:40	1.1490E+00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-07047
UUISO
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6032	11.3		0.00								
02	MBL	0.6030	11.3		0.00								
03	DUP	0.6033	11.3		0.00								
04	DO	0.6029	11.3		0.00								
05	TRG	0.6027	11.3		0.00								
06	TRG	0.6033	11.3		0.00								
07	TRG	0.6031	11.3		0.00								
08	TRG	0.6027	11.3		0.00								
09	TRG	0.6014	11.2		0.00								
10	TRG	0.6024	11.3		0.00								
11	TRG	0.6018	11.2		0.00								
12	TRG	0.6027	11.3		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

3959

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			07/16/15 07:20	JWOLFE				
02	MBL			07/16/15 07:20	JWOLFE				
03	DUP			07/16/15 07:20	JWOLFE				
04	DO	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
05	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
06	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
07	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
08	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
09	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
10	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
11	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				
12	TRG	07/13/15 07:04	KSALLINGS	07/16/15 07:20	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-07047-UUISO-1

Run	Analysis Code	Eberline Services Work Order	Client
1	UUISO	15-07047	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	7.26E+00	1.80E+00	2.42E-01	8.07E+00	89.92	OK		INV	
02	U-234	MBL	BLANK	pCi/g	7.08E-03	2.95E-02	7.59E-02					OK	OK
03	U-234	DUP	FEEBRISID-3 028-029	pCi/g	8.93E+00	1.25E+00	6.15E-02				OK	OK	
04	U-234	DO	FEEBRISID-3 028-029	pCi/g	9.36E+00	1.36E+00	7.82E-02					OK	
05	U-234	TRG	FEEBRISID-3 041-043	pCi/g	2.20E-01	1.08E-01	6.61E-02					OK	
06	U-234	TRG	DUPLICATE 2	pCi/g	1.43E+01	4.32E+01	2.11E+01					INV	
07	U-234	TRG	FEEBRISID-12 061-062	pCi/g	1.07E-01	7.65E-02	5.68E-02					OK	
08	U-234	TRG	FEEBRISID-12 074-075	pCi/g	2.30E-01	1.11E-01	7.08E-02					OK	
09	U-234	TRG	FEEBRISID-15 077-080	pCi/g	1.44E-01	8.85E-02	7.18E-02					OK	
10	U-234	TRG	FEEBRISID-15 085-086	pCi/g	4.62E-01	1.54E-01	6.14E-02					OK	
11	U-234	TRG	FEEBRISID-11 085-086	pCi/g	1.48E+00	3.13E-01	7.24E-02					OK	
12	U-234	TRG	FEEBRISID-11 087-088	pCi/g	8.59E-01	2.35E-01	9.11E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07047	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	07/10/15 00:00	1.00E+00	32.21	0.00	0.00			
02	U-234	MBL	07/10/15 00:00	1.00E+00	111.47	0.00	0.00			
03	U-234	DUP	07/06/15 11:26	1.00E+00	99.76	0.00	0.00			
04	U-234	DO	07/06/15 11:26	1.00E+00	94.94	0.00	0.00			
05	U-234	TRG	07/06/15 13:09	1.14E+00	114.19	0.00	0.00			
06	U-234	TRG	07/06/15 13:09	1.00E+00	0.27	0.00	0.00			
07	U-234	TRG	07/06/15 10:07	1.02E+00	103.58	0.00	0.00			
08	U-234	TRG	07/06/15 10:30	1.19E+00	94.68	0.00	0.00			
09	U-234	TRG	07/02/15 15:50	1.31E+00	91.84	0.00	0.00			
10	U-234	TRG	07/02/15 15:22	1.22E+00	92.97	0.00	0.00			
11	U-234	TRG	07/02/15 10:26	1.17E+00	102.00	0.00	0.00			
12	U-234	TRG	07/02/15 10:40	1.15E+00	97.87	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	07/21/15 08:47		A_Spec	Alpha_034	170	1.57 E+02	3.00 E-03	17.9
02	U-234	MBL	07/21/15 08:47		A_Spec	Alpha_035	170	4.90 E-01	3.00 E-03	16.5
03	U-234	DUP	07/21/15 08:47		A_Spec	Alpha_036	170	6.06 E+02	1.00 E-03	18.1
04	U-234	DO	07/21/15 08:47		A_Spec	Alpha_037	170	5.72 E+02	2.00 E-03	17.1
05	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_038	170	1.75 E+01	3.00 E-03	16.2
06	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_039	170	2.83 E+00	1.00 E-03	19.3
07	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_040	170	7.83 E+00	1.00 E-03	18.6
08	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_041	170	1.83 E+01	4.00 E-03	18.7
09	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_042	170	1.13 E+01	4.00 E-03	17.4
10	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_043	170	3.95 E+01	3.00 E-03	20
11	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_044	170	1.23 E+02	0.00 E+00	18.4
12	U-234	TRG	07/21/15 08:47		A_Spec	Alpha_046	170	6.46 E+01	8.00 E-03	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	8.43E+00	2.03E+00	2.19E-01	7.86E+00	107.16	OK		INV	
02	U-238	MBL	BLANK	pCi/g	7.05E-03	2.94E-02	7.55E-02					OK	OK
03	U-238	DUP	FEEBRISID-3 028-029	pCi/g	8.48E+00	1.20E+00	8.80E-02				OK	OK	
04	U-238	DO	FEEBRISID-3 028-029	pCi/g	9.27E+00	1.35E+00	9.77E-02					OK	
05	U-238	TRG	FEEBRISID-3 041-043	pCi/g	2.76E-01	1.22E-01	7.52E-02					OK	
06	U-238	TRG	DUPLICATE 2	pCi/g	5.03E+00	1.97E+01	3.02E+01					INV	
07	U-238	TRG	FEEBRISID-12 061-062	pCi/g	7.67E-02	6.59E-02	6.48E-02					OK	
08	U-238	TRG	FEEBRISID-12 074-075	pCi/g	2.12E-01	1.14E-01	1.12E-01					OK	
09	U-238	TRG	FEEBRISID-15 077-080	pCi/g	7.79E-02	6.70E-02	7.58E-02					OK	
10	U-238	TRG	FEEBRISID-15 085-086	pCi/g	4.77E-01	1.58E-01	6.98E-02					OK	
11	U-238	TRG	FEEBRISID-11 085-086	pCi/g	1.41E+00	3.02E-01	6.31E-02					OK	
12	U-238	TRG	FEEBRISID-11 087-088	pCi/g	7.36E-01	2.16E-01	1.08E-01					OK	

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	07/10/15 00:00	1.00E+00	32.21	0.00	0.00			
02	U-238	MBL	07/10/15 00:00	1.00E+00	111.47	0.00	0.00			
03	U-238	DUP	07/06/15 11:26	1.00E+00	99.76	0.00	0.00			
04	U-238	DO	07/06/15 11:26	1.00E+00	94.94	0.00	0.00			
05	U-238	TRG	07/06/15 13:09	1.14E+00	114.19	0.00	0.00			
06	U-238	TRG	07/06/15 13:09	1.00E+00	0.27	0.00	0.00			
07	U-238	TRG	07/06/15 10:07	1.02E+00	103.58	0.00	0.00			
08	U-238	TRG	07/06/15 10:30	1.19E+00	94.68	0.00	0.00			
09	U-238	TRG	07/02/15 15:50	1.31E+00	91.84	0.00	0.00			
10	U-238	TRG	07/02/15 15:22	1.22E+00	92.97	0.00	0.00			
11	U-238	TRG	07/02/15 10:26	1.17E+00	102.00	0.00	0.00			
12	U-238	TRG	07/02/15 10:40	1.15E+00	97.87	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	07/21/15 08:47		A_Spec	Alpha_034	170	1.84 E+02	2.00 E-03	17.9
02	U-238	MBL	07/21/15 08:47		A_Spec	Alpha_035	170	4.90 E-01	3.00 E-03	16.5
03	U-238	DUP	07/21/15 08:47		A_Spec	Alpha_036	170	5.78 E+02	0.00 E+00	18.1
04	U-238	DO	07/21/15 08:47		A_Spec	Alpha_037	170	5.69 E+02	0.00 E+00	17.1
05	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_038	170	2.20 E+01	0.00 E+00	16.2
06	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_039	170	1.00 E+00	0.00 E+00	19.3
07	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_040	170	5.66 E+00	2.00 E-03	18.6
08	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_041	170	1.69 E+01	1.80 E-02	18.7
09	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_042	170	6.15 E+00	5.00 E-03	17.4
10	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_043	170	4.10 E+01	0.00 E+00	20
11	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_044	170	1.17 E+02	3.00 E-03	18.4
12	U-238	TRG	07/21/15 08:47		A_Spec	Alpha_046	170	5.56 E+01	1.40 E-02	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07047	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	9.38E-01	4.95E-01	2.98E-01					INV	
02	U-235	MBL	BLANK	pCi/g	-6.06E-03	3.60E-02	8.53E-02					OK	OK
03	U-235	DUP	FEEBRISID-3 028-029	pCi/g	7.27E-01	2.43E-01	1.09E-01				NA	OK	
04	U-235	DO	FEEBRISID-3 028-029	pCi/g	5.92E-01	2.29E-01	1.14E-01					OK	
05	U-235	TRG	FEEBRISID-3 041-043	pCi/g	0.00E+00	4.31E-02	9.32E-02					OK	
06	U-235	TRG	DUPLICATE 2	pCi/g	6.23E+00	2.44E+01	3.74E+01					INV	
07	U-235	TRG	FEEBRISID-12 061-062	pCi/g	1.39E-02	3.34E-02	7.00E-02					OK	
08	U-235	TRG	FEEBRISID-12 074-075	pCi/g	2.84E-02	4.34E-02	6.47E-02					OK	
09	U-235	TRG	FEEBRISID-15 077-080	pCi/g	-5.34E-03	3.16E-02	7.50E-02					OK	
10	U-235	TRG	FEEBRISID-15 085-086	pCi/g	3.59E-02	4.99E-02	7.57E-02					OK	
11	U-235	TRG	FEEBRISID-11 085-086	pCi/g	7.45E-02	7.20E-02	8.93E-02					OK	
12	U-235	TRG	FEEBRISID-11 087-088	pCi/g	6.53E-02	7.35E-02	1.03E-01					OK	

Run: 1
Analysis Code: UUISO
Eberline Services Work Order: 15-07047
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	07/10/15 00:00	1.00E+00	32.21	0.00	0.00			
02	U-235	MBL	07/10/15 00:00	1.00E+00	111.47	0.00	0.00			
03	U-235	DUP	07/06/15 11:26	1.00E+00	99.76	0.00	0.00			
04	U-235	DO	07/06/15 11:26	1.00E+00	94.94	0.00	0.00			
05	U-235	TRG	07/06/15 13:09	1.14E+00	114.19	0.00	0.00			
06	U-235	TRG	07/06/15 13:09	1.00E+00	0.27	0.00	0.00			
07	U-235	TRG	07/06/15 10:07	1.02E+00	103.58	0.00	0.00			
08	U-235	TRG	07/06/15 10:30	1.19E+00	94.68	0.00	0.00			
09	U-235	TRG	07/02/15 15:50	1.31E+00	91.84	0.00	0.00			
10	U-235	TRG	07/02/15 15:22	1.22E+00	92.97	0.00	0.00			
11	U-235	TRG	07/02/15 10:26	1.17E+00	102.00	0.00	0.00			
12	U-235	TRG	07/02/15 10:40	1.15E+00	97.87	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-1

Run	Analysis Code	Eberline Services Work Order	Client
1	UUISO	15-07047	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	07/21/15 08:47		A_Spec	Alpha_034	170	1.65 E+01	3.00 E-03	17.9
02	U-235	MBL	07/21/15 08:47		A_Spec	Alpha_035	170	-3.40 E-01	2.00 E-03	16.5
03	U-235	DUP	07/21/15 08:47		A_Spec	Alpha_036	170	4.00 E+01	0.00 E+00	18.1
04	U-235	DO	07/21/15 08:47		A_Spec	Alpha_037	170	2.93 E+01	4.00 E-03	17.1
05	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_038	170	1.00 E+00	0.00 E+00	16.2
06	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_039	170	1.00 E+00	0.00 E+00	19.3
07	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_040	170	8.30 E-01	1.00 E-03	18.6
08	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_041	170	1.83 E+00	1.00 E-03	18.7
09	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_042	170	-3.40 E-01	2.00 E-03	17.4
10	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_043	170	2.49 E+00	3.00 E-03	20
11	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_044	170	5.00 E+00	0.00 E+00	18.4
12	U-235	TRG	07/21/15 08:47		A_Spec	Alpha_046	170	3.98 E+00	6.00 E-03	17.8

Count Room Report
Client: AMO Environmental Decisio

15-07047-UUISO-1 (pCi/g) in SO
Tracer ID: U-10a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/10/15 00:00	1.0000	0.6032	11.2738		0.00		
02	MBL	BLANK	07/10/15 00:00	1.0000	0.6030	11.2701		0.00		
03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	1.0000	0.6033	11.2757		0.00		
04	DO	FEEBRISID-3 028-029	07/06/15 11:26	1.0000	0.6029	11.2682		0.00		
05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	1.1430	0.6027	11.2645		0.00		
06	TRG	DUPLICATE 2	07/06/15 13:09	1.0005	0.6033	11.2757		0.00		
07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	1.0155	0.6031	11.2719		0.00		
08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	1.1920	0.6027	11.2645		0.00		
09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	1.3080	0.6014	11.2402		0.00		
10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	1.2220	0.6024	11.2589		0.00		
11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	1.1740	0.6018	11.2476		0.00		
12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	1.1490	0.6027	11.2645		0.00		

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-07047	1	UUISO	7/16/2015 6:55	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
U-234	U-8a	35.240	7/16/2015	0.500	0.5085				8.07	0.291	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	7/16/2015	0.500	0.5083				7.86	0.283	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	U-232	U-10a	18.690	7/16/2015	0.6032	0.6500
02	U-232	U-10a	18.690	7/16/2015	0.6030	0.6500
03	U-232	U-10a	18.690	7/16/2015	0.6033	0.6500
04	U-232	U-10a	18.690	7/16/2015	0.6029	0.6500
05	U-232	U-10a	18.690	7/16/2015	0.6027	0.6500
06	U-232	U-10a	18.690	7/16/2015	0.6033	0.6500
07	U-232	U-10a	18.690	7/16/2015	0.6031	0.6500
08	U-232	U-10a	18.690	7/16/2015	0.6027	0.6500
09	U-232	U-10a	18.690	7/16/2015	0.6014	0.6500
10	U-232	U-10a	18.690	7/16/2015	0.6024	0.6500
11	U-232	U-10a	18.690	7/16/2015	0.6018	0.6500
12	U-232	U-10a	18.690	7/16/2015	0.6027	0.6500

Balance Printer Tapes

Tracer

0.6032 g
0.6030 g
0.6033 g
0.6029 g
0.6027 g
0.6033 g
0.6031 g
0.6027 g
0.6014 g
0.6024 g
0.6018 g
0.6027 g

LCS

0.5085 g

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/17/2015 4:22 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07047	1	UUISO	grams	7/31/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRISID-3 028-029	DUP		1	10.00	1.00E-01	1.0000E+01	1.0000E+00				
04	FEEBRISID-3 028-029	DO		1	10.00	1.00E-01	1.0000E+01	1.0000E+00				
05	FEEBRISID-3 041-043	TRG		1	13.12	7.62E-02	1.5000E+01	1.1430E+00				
06	DUPLICATE 2	TRG		1	14.99	6.67E-02	1.5000E+01	1.0005E+00				
07	FEEBRISID-12 061-062	TRG		1	14.77	6.77E-02	1.5000E+01	1.0155E+00				
08	FEEBRISID-12 074-075	TRG		1	16.78	5.96E-02	2.0000E+01	1.1920E+00				
09	FEEBRISID-15 077-080	TRG		1	11.47	8.72E-02	1.5000E+01	1.3080E+00				
10	FEEBRISID-15 085-086	TRG		1	16.37	6.11E-02	2.0000E+01	1.2220E+00				
11	FEEBRISID-11 085-086	TRG		1	17.04	5.87E-02	2.0000E+01	1.1740E+00				
12	FEEBRISID-11 087-088	TRG		1	13.05	7.66E-02	1.5000E+01	1.1490E+00				

Comments	

Technician: JWolfe Date: 7/17/15

55555

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 03 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10**	ml	from the original sample and diluted it to	**100**	ml	0.1000
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1**
Dilution Factor	**10**

Diluted by: JW Date: 7/17/15

15000 : 00097

EBERLINE SERVICES

	Internal Work Order	15-07047
	Fraction	**> 04 <**
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10**	ml	from the original sample and diluted it to	**100**	ml	0.1000
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1**
Dilution Factor	**10**

Diluted by: JW Date: 7/17/15

55555

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 05 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.62**	ml	from the original sample and diluted it to	**100**	ml	0.0762
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0762**
Dilution Factor	**13.12335958**

5555

Diluted by: JW Date: 7/17/15

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 07 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.77**	ml	from the original sample and diluted it to	**100**	ml	0.0677
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0677**
Dilution Factor	**14.77104874**

Diluted by: JW Date: 7/17/15

00100

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 08 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.96**	ml	from the original sample and diluted it to	**100**	ml	0.0596
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0596**
Dilution Factor	**16.77852349**

Diluted by: JW Date: 7/17/15

00101

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 09 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.72**	ml	from the original sample and diluted it to	**100**	ml	0.0872
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0872**
Dilution Factor	**11.46788991**

Diluted by: JW Date: 7/17/15

: 00102

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07047
	Fraction	**> 10 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.11**	ml	from the original sample and diluted it to	**100**	ml	0.0611
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0611**
Dilution Factor	**16.36661211**

Diluted by: JW Date: 7/17/15

20150717

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 11 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.87**	ml	from the original sample and diluted it to	**100**	ml	0.0587
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0587**
Dilution Factor	**17.03577513**

Diluted by: JW Date: 7/17/15

40100

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 12 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.66**	ml	from the original sample and diluted it to	**100**	ml	0.0766
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0766**
Dilution Factor	**13.05483029**

Diluted by: JW Date: 7/17/15

: 00105

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/13/2015 7:04 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07047	7/31/2015	7/12/2015	7/13/2015	7/14/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRISID-3 028-029	29.0400	1078.7600	807.4600	1049.7200	778.4200	25.84%	74.16%	0.0000	0.0000	
05	FEEBRISID-3 041-043	28.7800	885.2600	593.0300	856.4800	564.2500	34.12%	65.88%	0.0000	0.0000	
06	DUPLICATE 2	28.7900	1029.5600	556.5800	1000.7700	527.7900	47.26%	52.74%	0.0000	0.0000	
07	FEEBRISID-12 061-062	28.7600	974.2600	414.3300	945.5000	385.5700	59.22%	40.78%	0.0000	0.0000	
08	FEEBRISID-12 074-075	28.8400	992.3800	817.9800	963.5400	789.1400	18.10%	81.90%	0.0000	0.0000	
09	FEEBRISID-15 077-080	28.8100	915.2600	685.2600	886.4500	656.4500	25.95%	74.05%	0.0000	0.0000	
10	FEEBRISID-15 085-086	28.8900	1096.0600	875.9200	1067.1700	847.0300	20.63%	79.37%	0.0000	0.0000	
11	FEEBRISID-11 085-086	14.7400	1264.2600	1171.2800	1249.5200	1156.5400	7.44%	92.56%	0.0000	0.0000	
12	FEEBRISID-11 087-088	29.4900	1979.8000	1828.2000	1950.3100	1798.7100	7.77%	92.23%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

5951

Technician: Kerry Sallings Date: **Analysis: Rough Prep Logbook**

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-07047	grams	7/31/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRISID-3 028-029	111.2700	121.2700		10.0000		
05	FEEBRISID-3 041-043	112.2600	119.8800		7.6200		
06	DUPLICATE 2	98.3700	105.0400		6.6700		
07	FEEBRISID-12 061-062	112.7400	119.5100		6.7700		
08	FEEBRISID-12 074-075	111.8100	117.7700		5.9600		
09	FEEBRISID-15 077-080	104.5900	113.3100		8.7200		
10	FEEBRISID-15 085-086	115.0900	121.2000		6.1100		
11	FEEBRISID-11 085-086	106.9900	112.8600		5.8700		
12	FEEBRISID-11 087-088	113.3300	120.9900		7.6600		

Comments

Technician: Kenny Sallings Date: 7/13/15

Analysis: UUISO

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 123486
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/21/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:08 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.0576 +/- 0.0057
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 0.3221 +/- 0.0322

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 1.044226 +/- 0.132245
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.229	109.66	18.75	0.34	0.00E+000	17.9
U-234		4.692	157.49	15.65	0.51	0.00E+000	12.3
U-235		4.404	16.49	49.13	0.51	0.00E+000	3.7
U-238		4.135	183.66	14.48	0.34	0.00E+000	5.4

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.962	5302.50*	5.05E+000 +/- 9.75E-001	2.20E-001 +/- 4.25E-002
U-234	0.966	4761.50*	7.26E+000 +/- 1.80E+000	2.42E-001 +/- 4.66E-002
U-235	0.998	4385.50*	9.38E-001 +/- 4.95E-001	2.98E-001 +/- 5.75E-002
U-238	0.983	4184.40*	8.43E+000 +/- 2.03E+000	2.19E-001 +/- 4.23E-002

AG
7/21/15

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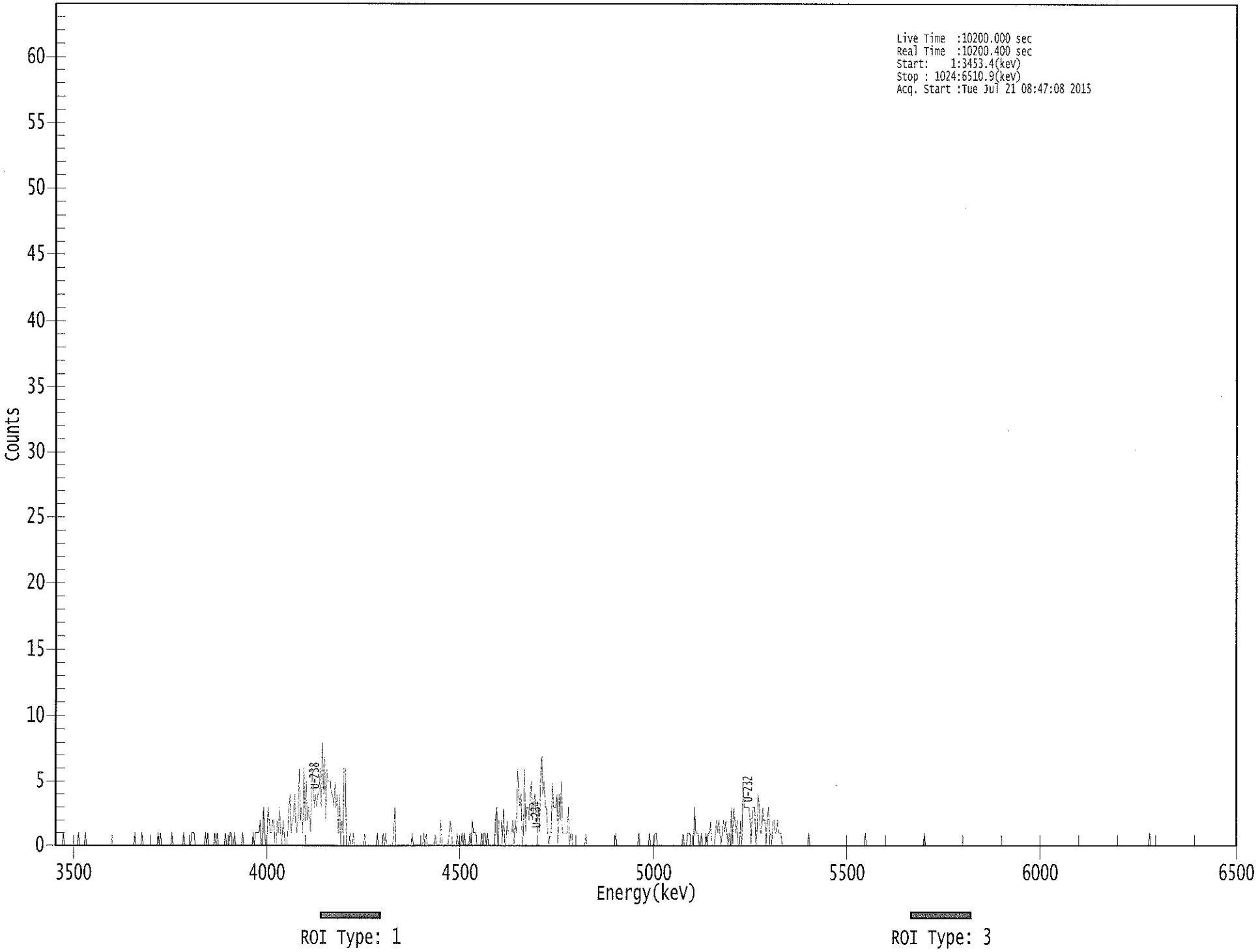


****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	0	0	0	0	0	1
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	1	0	0	0
25:	0	0	1	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	1	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	1	0	1	0	0	0	0
97:	0	0	0	0	0	1	0	0
105:	0	0	0	0	0	0	0	1
113:	0	0	0	0	0	0	1	1
121:	1	0	0	0	0	0	0	0
129:	0	0	1	0	1	0	0	0
137:	0	0	1	0	1	0	0	0
145:	0	0	0	1	0	0	0	1
153:	1	0	0	1	0	0	0	0
161:	0	0	1	0	0	0	0	0
169:	0	0	0	1	0	1	1	1
177:	1	2	0	0	3	1	0	0
185:	3	2	1	1	2	2	0	0
193:	2	1	3	1	0	2	1	0
201:	0	1	3	4	1	2	2	4
209:	2	1	2	6	2	3	1	6
217:	2	5	2	3	2	1	6	5
225:	3	4	3	4	4	6	3	8
233:	4	7	2	6	5	5	5	4
241:	4	3	5	3	4	1	4	0
249:	2	1	6	6	0	0	0	1
257:	0	0	1	0	0	0	0	0
265:	0	0	0	0	1	0	0	0
273:	0	0	0	0	0	0	0	1
281:	0	0	0	0	1	0	1	0
289:	0	0	0	0	0	1	3	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	0	0	0	0	1
321:	0	1	0	0	0	0	0	0
329:	0	1	0	0	0	0	2	0
337:	0	0	0	0	0	1	2	1
345:	0	0	0	0	1	0	0	0
353:	1	0	1	0	0	0	0	1
361:	0	2	1	1	1	0	0	0

369:	0	1	0	1	1	0	1	0

Sample Title: 01

Channel								
377:	0	0	0	0	0	2	3	0
385:	2	2	2	0	3	0	0	2
393:	1	1	1	1	2	0	2	1
401:	6	4	3	4	0	1	6	1
409:	3	3	2	4	5	2	3	4
417:	3	1	3	1	5	7	4	5
425:	3	3	1	0	1	1	5	3
433:	3	3	4	0	4	2	5	1
441:	1	1	1	1	3	0	1	1
449:	0	0	0	0	0	0	0	0
457:	0	0	0	1	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	1	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	1	0	0	0	0	0	0
513:	0	0	1	0	0	0	0	1
521:	1	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	1
545:	0	0	0	1	1	1	0	0
553:	0	3	1	1	1	0	0	1
561:	0	0	0	1	0	1	1	2
569:	0	0	0	1	2	1	2	1
577:	0	1	2	1	2	1	0	1
585:	0	3	0	3	2	1	2	0
593:	0	2	0	5	3	3	3	3
601:	3	2	0	3	3	3	0	1
609:	4	3	1	1	3	2	2	0
617:	2	3	1	1	0	2	2	1
625:	1	2	1	1	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	1	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	1	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	1	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	1	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/21/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_035
Chamber Serial Number: 04026477A
Detector Serial Number: 58771
Env. Background: System Bkgd 123487
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/21/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:10 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1837 +/- 0.0107
Counting Efficiency: 0.1647 +/- 0.0029 on 10/25/2014 2:34:10 PM
Chem. Recovery Factor: 1.1147 +/- 0.0679

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.261	349.49	10.49	0.51	0.00E+000	28.8
U-234		4.763	0.49	416.98	0.51	0.00E+000	3.0
U-235		4.396	-0.34	592.90	0.34	0.00E+000	0.0
U-238		4.127	0.49	416.98	0.51	0.00E+000	3.0

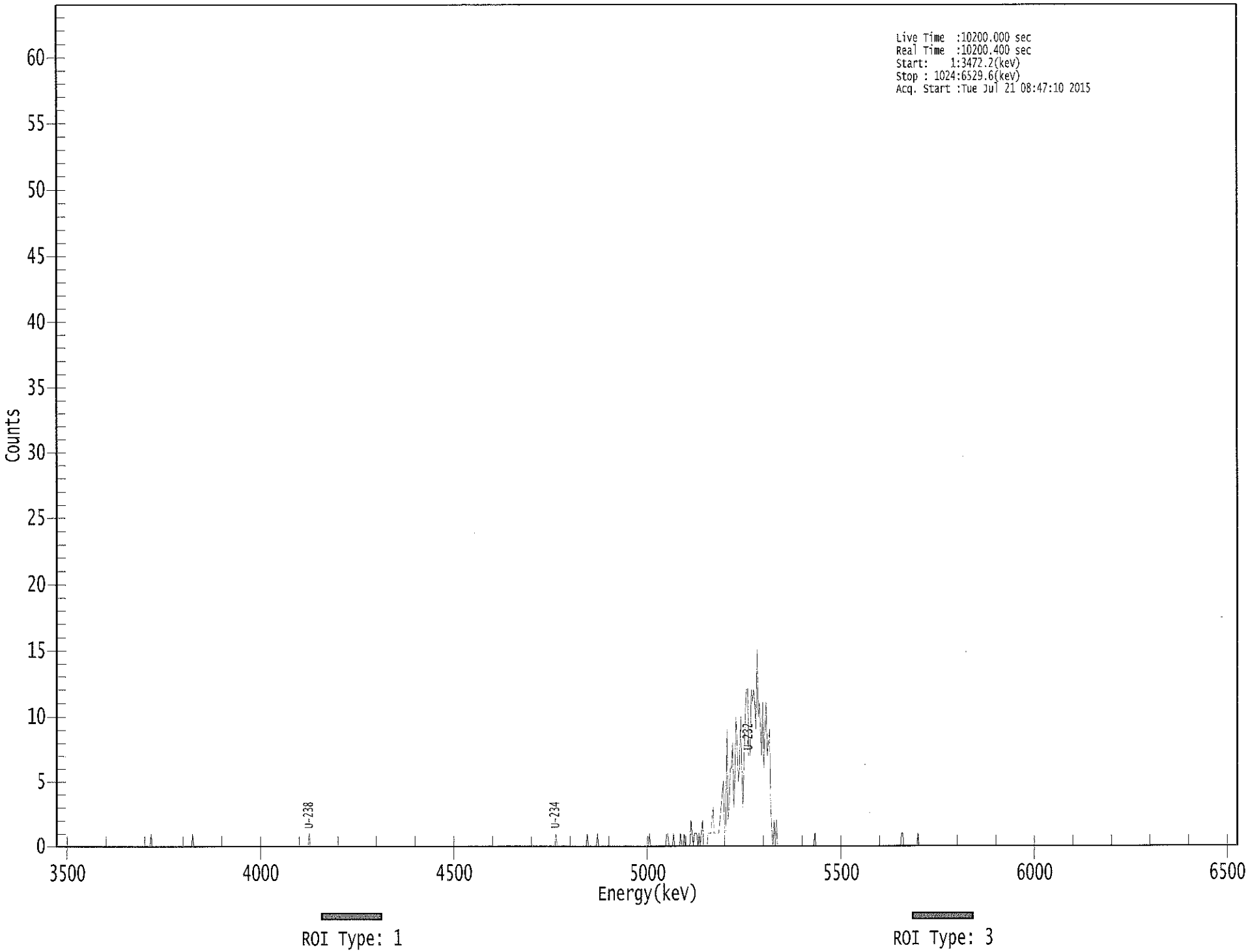
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.988	5302.50*	5.05E+000 +/- 5.77E-001	7.59E-002 +/- 8.66E-003
U-234	1.000	4761.50*	7.08E-003 +/- 2.95E-002	7.59E-002 +/- 8.66E-003
U-235	0.999	4385.50*	-6.06E-003 +/- 3.60E-002	8.53E-002 +/- 9.74E-003
U-238	0.977	4184.40*	7.05E-003 +/- 2.94E-002	7.55E-002 +/- 8.63E-003

AG 7/21/15

0000123577.CNF



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***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	1	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	1	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	1	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	1	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	1	0	0	0	0
465:	0	0	0	0	1	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	1	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	1	1	0	0	0	0	1	0
537:	0	0	0	0	1	0	0	1
545:	0	0	0	0	0	2	1	0
553:	1	1	1	0	1	0	1	2
561:	0	0	0	0	1	1	1	2
569:	3	1	1	1	1	1	2	3
577:	4	5	1	1	9	2	3	6
585:	6	8	3	5	10	8	5	6
593:	10	6	3	7	10	12	12	7
601:	7	12	11	12	11	9	15	10
609:	11	9	7	11	6	9	11	7
617:	8	9	3	1	0	2	0	2
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	1	1	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	1	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/21/15

Apex-Alpha™

Sample Description: FEEBRISID-3 028-029-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 123488
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:11 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1801 +/- 0.0106
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 0.9976 +/- 0.0612

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.275	342.98	10.60	1.02	0.00E+000	21.2
U-234		4.724	605.83	7.96	0.17	0.00E+000	17.3
U-235		4.386	40.00	31.38	0.00	0.00E+000	4.5
U-238		4.148	578.00	8.16	0.00	0.00E+000	15.2

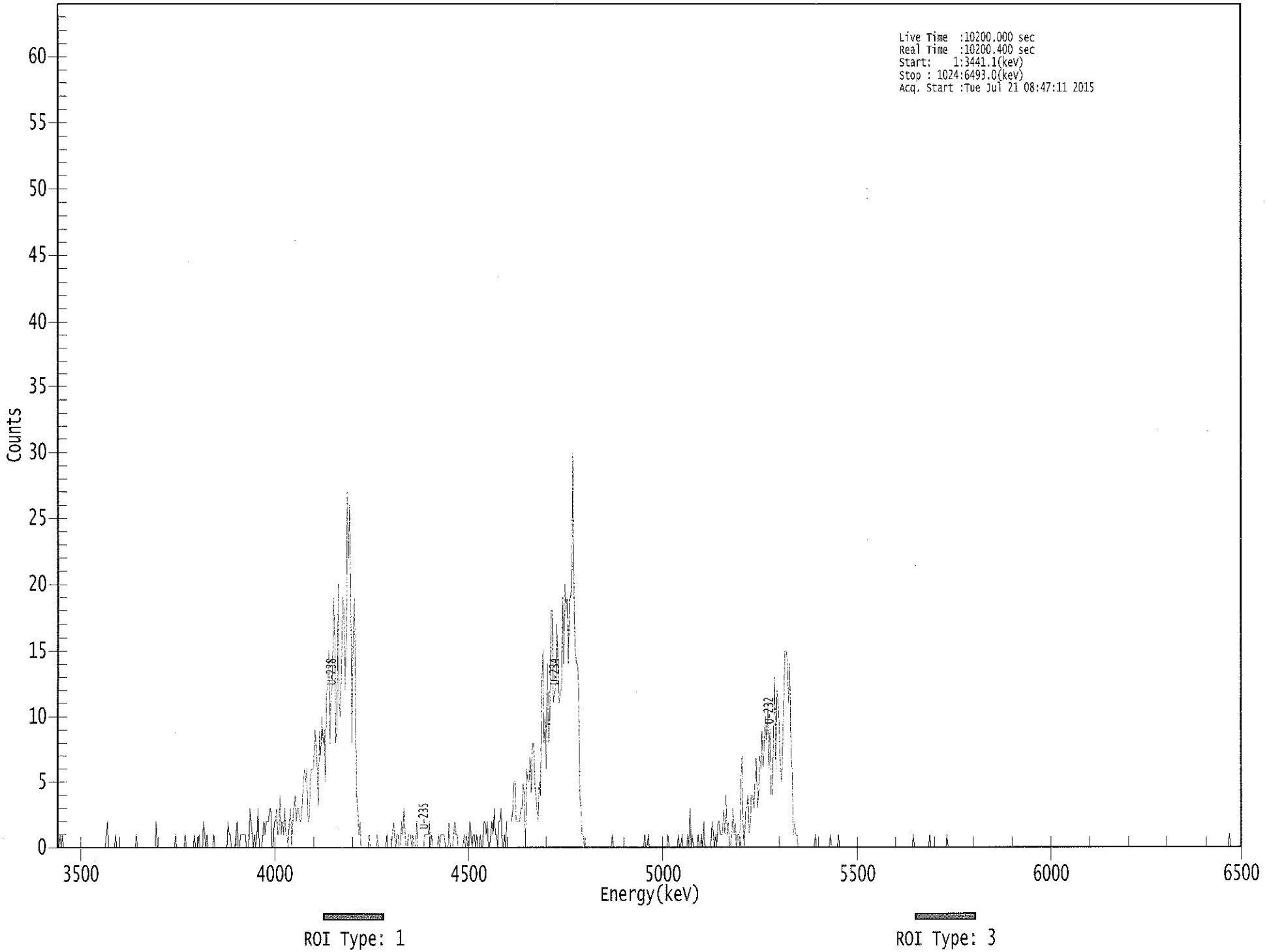
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	5.06E+000 +/- 5.83E-001	9.29E-002 +/- 1.07E-002
U-234	0.990	4761.50*	8.93E+000 +/- 1.25E+000	6.15E-002 +/- 7.09E-003
U-235	1.000	4385.50*	7.27E-001 +/- 2.43E-001	1.09E-001 +/- 1.26E-002
U-238	0.991	4184.40*	8.48E+000 +/- 1.20E+000	8.80E-002 +/- 1.01E-002

AG 7/21/15

0000123578.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	1	0	1	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	1	2	0	0	0	0
49:	0	0	1	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	1	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	2	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	1	0
105:	0	0	0	0	0	0	1	0
113:	0	0	0	0	0	0	1	0
121:	0	0	1	0	0	0	2	1
129:	0	1	0	0	0	0	0	1
137:	0	0	0	0	0	0	0	0
145:	0	0	0	2	1	1	0	0
153:	0	0	1	2	0	0	1	1
161:	1	1	1	0	0	0	3	2
169:	1	0	1	0	1	3	0	0
177:	0	1	2	1	2	2	2	3
185:	3	0	0	2	2	3	1	1
193:	4	1	2	1	3	1	1	0
201:	2	3	0	2	3	4	2	3
209:	3	2	2	3	5	6	5	6
217:	2	2	5	6	6	6	9	8
225:	6	3	9	7	10	8	9	5
233:	12	12	15	8	12	12	19	17
241:	8	9	20	11	10	14	19	18
249:	12	17	27	22	26	17	8	17
257:	19	11	4	3	1	2	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	1	0	0	0
281:	0	0	0	0	1	0	0	0
289:	0	1	2	1	0	1	1	0
297:	0	2	1	3	1	0	0	1
305:	1	1	0	1	0	0	2	0
313:	0	0	0	0	0	1	1	1
321:	1	2	0	1	0	0	0	0
329:	0	1	0	1	1	1	1	0
337:	0	0	2	0	0	0	1	2
345:	1	1	0	0	0	0	0	1
353:	0	1	0	0	2	1	0	1
361:	1	0	1	0	0	1	0	0

369:	2	2	1	2	0	0	1	2

Sample Title: 03

Channel								
377:	1	3	1	1	0	2	2	3
385:	0	0	1	0	2	2	2	2
393:	2	3	5	5	2	2	2	2
401:	3	3	5	4	0	6	5	5
409:	7	4	8	8	5	4	3	2
417:	5	4	12	15	8	10	6	14
425:	8	10	18	18	11	12	12	17
433:	14	11	12	12	19	14	20	18
441:	19	14	19	19	20	30	18	15
449:	14	14	12	4	3	1	1	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	1
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	1	0	0	1	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	1
529:	0	0	0	0	0	0	0	0
537:	1	0	0	1	0	0	0	0
545:	1	0	3	0	1	0	0	0
553:	0	1	0	0	1	0	2	0
561:	0	0	0	0	0	2	1	0
569:	1	0	2	2	1	1	1	3
577:	1	4	1	2	0	0	1	3
585:	1	2	0	1	1	0	5	7
593:	1	0	3	3	4	1	2	4
601:	4	3	5	7	3	4	7	6
609:	9	6	8	10	8	11	6	9
617:	4	4	8	13	6	12	11	9
625:	6	5	8	12	15	15	14	11
633:	14	7	6	1	2	1	1	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	1	0	0	0	0
673:	0	0	1	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	1	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	1	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	1	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/21/15

Sample Description: FEEBRISID-3 028-029
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 123489
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:13 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1622 +/- 0.0100
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 0.9494 +/- 0.0607

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.272	308.66	11.16	0.34	0.00E+000	10.4
U-234		4.727	571.66	8.20	0.34	0.00E+000	41.2
U-235		4.393	29.32	36.68	0.68	0.00E+000	7.5
U-238		4.147	569.00	8.22	0.00	0.00E+000	53.3

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.993	5302.50*	5.05E+000 +/- 6.08E-001	7.83E-002 +/- 9.43E-003
U-234	0.992	4761.50*	9.36E+000 +/- 1.36E+000	7.82E-002 +/- 9.42E-003
U-235	1.000	4385.50*	5.92E-001 +/- 2.29E-001	1.14E-001 +/- 1.37E-002
U-238	0.990	4184.40*	9.27E+000 +/- 1.35E+000	9.77E-002 +/- 1.18E-002

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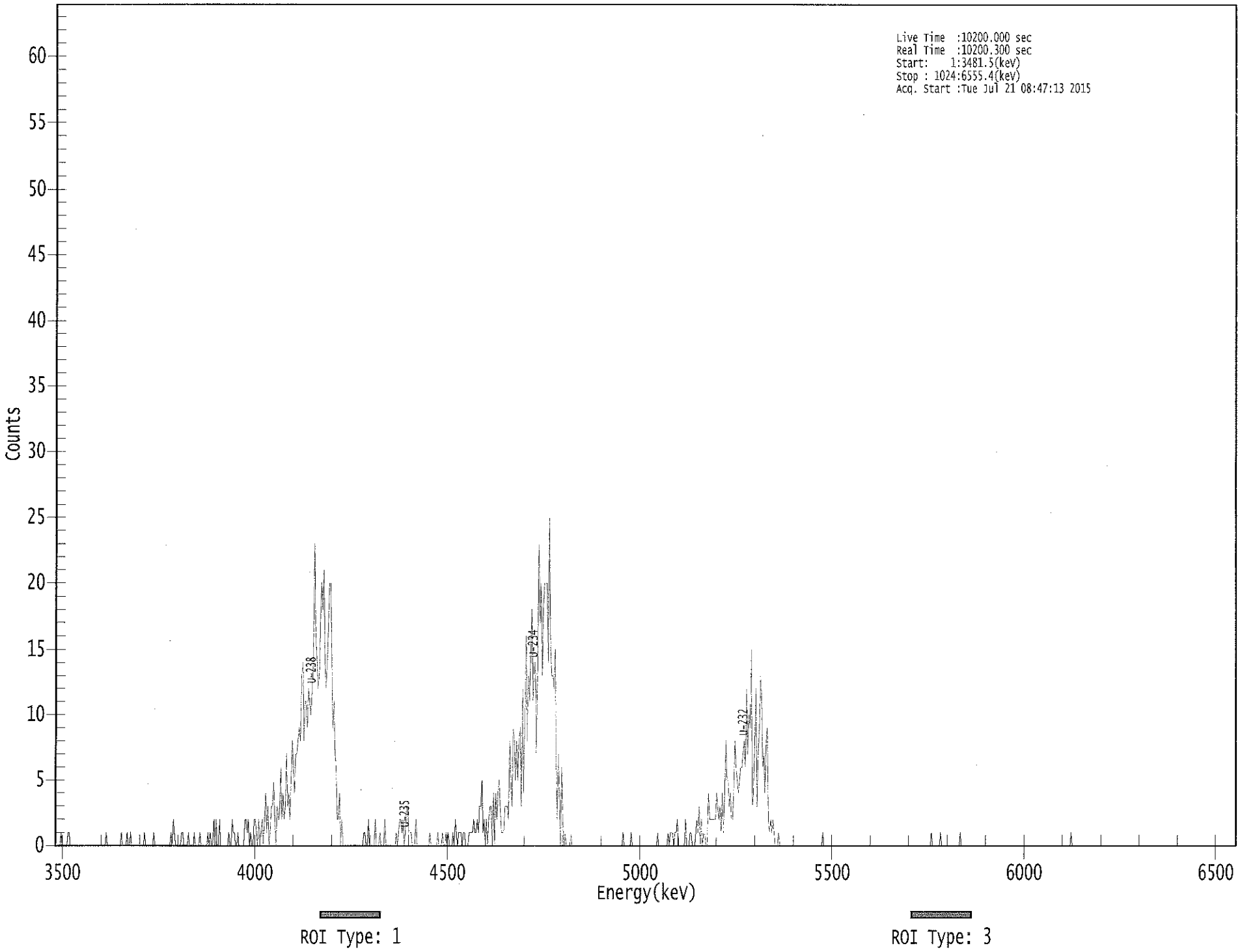
0000123579.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	1	0	0
9:	0	0	0	1	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	1	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	1	0	0	0	0	1	0
65:	0	1	0	0	0	0	0	0
73:	0	0	0	0	0	1	0	0
81:	0	0	0	0	0	1	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	1	0	2	1
105:	0	0	0	0	0	1	1	0
113:	0	0	0	1	0	0	0	0
121:	1	0	0	0	0	1	0	0
129:	0	0	0	0	1	0	1	0
137:	0	2	0	2	0	0	2	0
145:	0	0	0	0	0	0	1	0
153:	0	2	1	1	0	0	1	0
161:	0	0	0	0	2	2	1	2
169:	0	1	0	0	2	2	1	0
177:	2	0	1	2	0	2	4	1
185:	3	0	1	3	3	5	2	0
193:	3	2	2	6	2	4	2	3
201:	7	3	4	2	5	8	6	4
209:	7	7	8	9	8	13	14	8
217:	11	11	9	12	11	10	12	14
225:	23	16	14	12	13	17	20	18
233:	21	14	12	14	17	20	20	14
241:	9	11	7	6	2	2	4	0
249:	2	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	1	1	0	0	2
273:	0	0	0	0	0	2	0	0
281:	0	1	0	0	0	2	0	0
289:	0	0	0	0	0	0	0	1
297:	0	1	2	2	1	2	0	1
305:	3	3	1	1	1	0	0	0
313:	2	0	0	0	0	0	0	0
321:	0	0	0	0	1	0	0	0
329:	0	0	0	1	0	0	0	1
337:	0	0	1	0	1	0	0	0
345:	1	0	2	1	0	1	1	1
353:	0	1	1	0	0	0	1	1
361:	1	1	2	1	1	2	1	3

369:	3	5	1	2	0	2	0	2

Sample Title: 04

Channel								
377:	3	3	0	4	0	4	2	4
385:	5	3	1	1	1	3	3	3
393:	2	8	5	3	9	8	5	8
401:	5	8	9	3	12	4	10	16
409:	8	13	11	15	18	11	14	14
417:	7	14	23	17	20	13	18	20
425:	20	20	14	25	15	13	13	12
433:	15	7	2	7	4	0	6	2
441:	0	1	0	0	0	0	1	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	1	0	0	0	0
497:	0	0	1	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	1	0	0	0	0	0	0
529:	0	0	1	0	1	1	1	0
537:	1	1	2	0	0	0	0	0
545:	0	2	0	0	0	1	1	0
553:	0	0	1	2	1	3	0	2
561:	0	1	1	0	0	4	2	2
569:	2	2	2	2	4	3	2	3
577:	1	4	1	4	8	5	5	3
585:	4	2	2	4	8	6	5	4
593:	5	6	6	7	8	6	12	7
601:	10	9	15	3	4	8	12	3
609:	7	9	13	11	6	7	4	8
617:	9	2	1	2	1	2	1	0
625:	0	0	1	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	1	0
761:	0	0	0	0	0	0	1	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	1
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	1
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

LCB 7/21/15

Sample Description: FEEBRISID-3 041-043
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 123490
Reagent Blank: <not performed>

Sample Size: 1.143E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:15 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1845 +/- 0.0107
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.1419 +/- 0.0694

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.296	350.83	10.47	0.17	0.00E+000	12.3
U-234		4.735	17.49	47.66	0.51	0.00E+000	3.0
U-235		4.396	0.00	1960.0	0.00	0.00E+000	0.0
U-238		4.157	22.00	42.73	0.00	0.00E+000	4.5

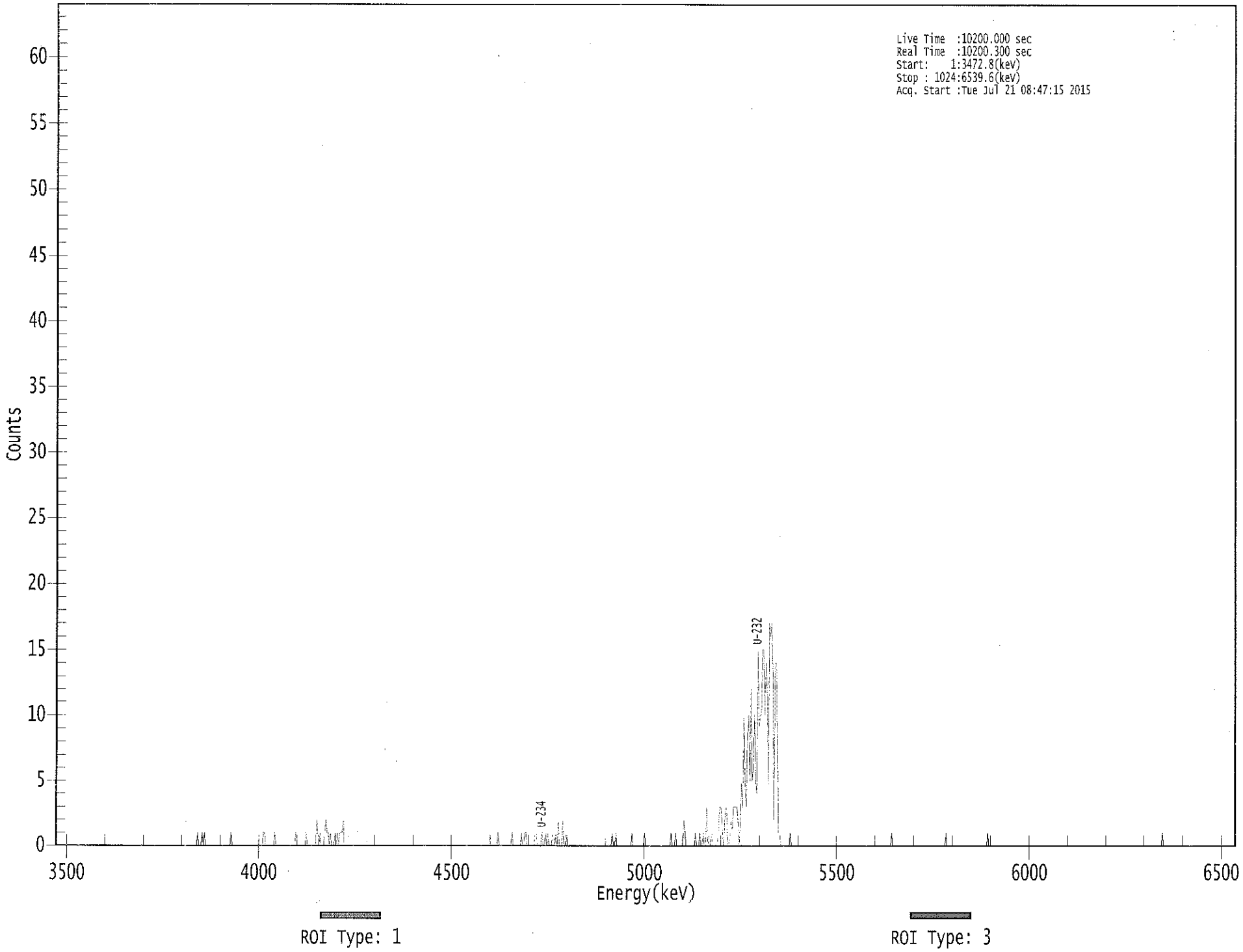
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	1.000	5302.50*	4.42E+000 +/- 5.04E-001	5.26E-002 +/- 5.99E-003
U-234	0.995	4761.50*	2.20E-001 +/- 1.08E-001	6.61E-002 +/- 7.53E-003
U-235	0.999	4385.50*	0.00E+000 +/- 4.31E-002	9.32E-002 +/- 1.06E-002
U-238	0.995	4184.40*	2.76E-001 +/- 1.22E-001	7.52E-002 +/- 8.57E-003

AG 7/21/15

0000123580.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	1	0	0	0	1
129:	0	1	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	1	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	1	1	0	0
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	1	0	0	0	0	0	0
225:	0	0	2	1	0	1	0	0
233:	0	1	2	1	1	0	1	0
241:	0	0	1	0	1	0	1	1
249:	1	2	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
377:	0	0	0	0	0	0	0	1
385:	0	0	0	0	0	0	0	0
393:	0	0	0	1	0	0	0	0
401:	0	0	0	1	0	0	1	1
409:	0	0	0	0	0	0	0	1
417:	1	0	0	0	0	1	0	0
425:	1	0	1	0	0	0	1	1
433:	0	1	0	2	0	0	0	2
441:	0	0	1	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	1	0	0	1	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	1	0	0	0	0
505:	0	0	0	0	0	0	1	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	1	0	0	0	0	0	0
545:	2	1	0	0	0	0	0	0
553:	0	0	1	0	0	0	1	0
561:	0	1	0	0	3	0	1	0
569:	1	0	0	0	0	0	1	3
577:	3	2	0	1	3	3	0	0
585:	1	2	1	3	3	3	3	2
593:	0	2	5	3	10	5	3	8
601:	10	5	12	5	6	10	5	4
609:	15	9	10	10	15	15	10	14
617:	12	5	17	16	17	13	2	14
625:	14	8	1	1	0	0	0	0
633:	0	0	0	0	1	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	1	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	1	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	1

Sample Title: 05

Channel							
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	1
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 7/21/15

Apex-Alpha™

Sample Description: FEEBRISID-12 061-062
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 123492
Reagent Blank: <not performed>

Sample Size: 1.015E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:18 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1922 +/- 0.0110
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 1.0358 +/- 0.0619

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.273	365.83	10.25	0.17	0.00E+000	6.4
U-234		4.698	7.83	70.93	0.17	0.00E+000	3.0
U-235		4.400	0.83	239.53	0.17	0.00E+000	3.0
U-238		4.149	5.66	85.23	0.34	0.00E+000	3.0

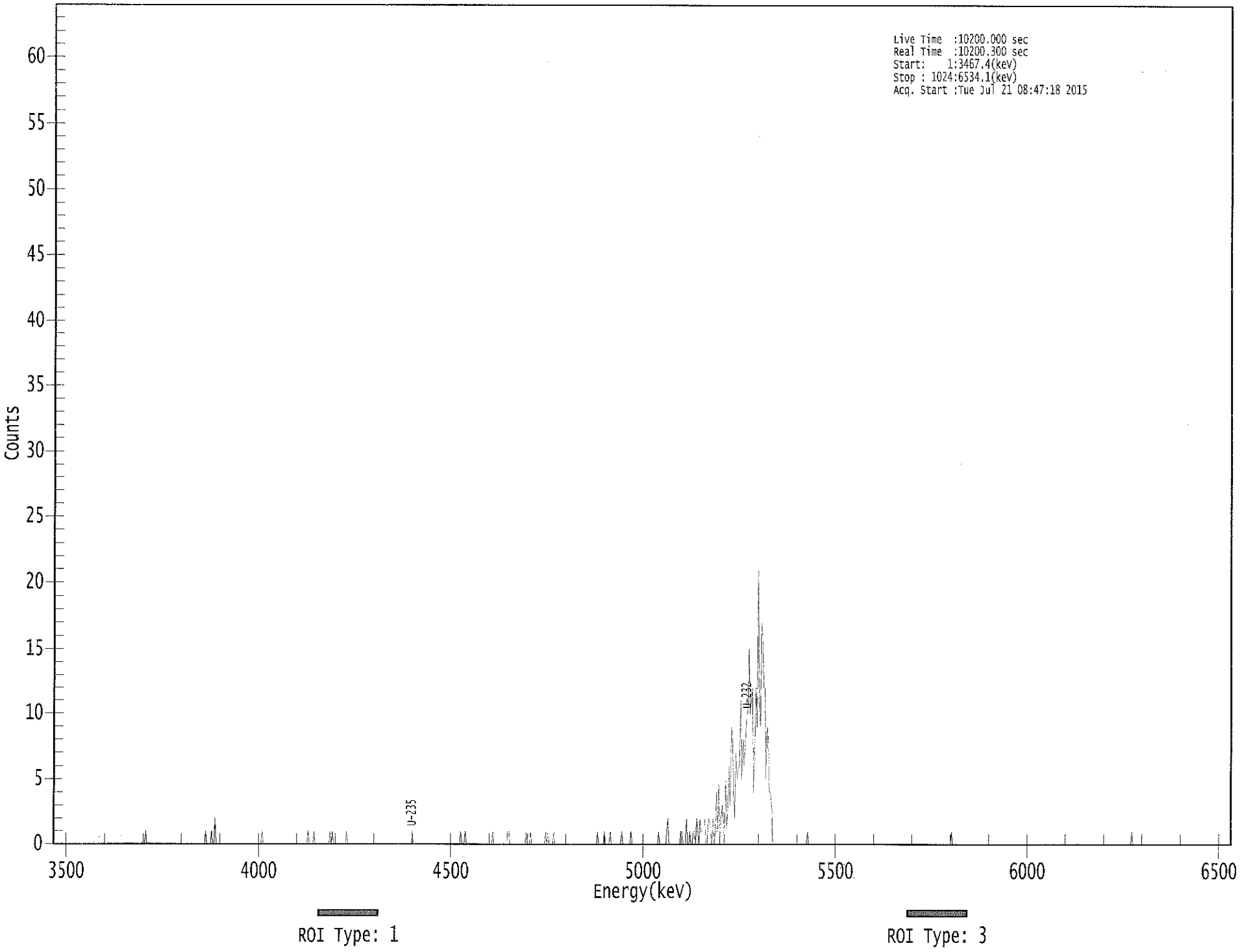
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.994	5302.50*	4.98E+000 +/- 5.58E-001	5.68E-002 +/- 6.36E-003
U-234	0.972	4761.50*	1.07E-001 +/- 7.65E-002	5.68E-002 +/- 6.36E-003
U-235	0.999	4385.50*	1.39E-002 +/- 3.34E-002	7.00E-002 +/- 7.84E-003
U-238	0.991	4184.40*	7.67E-002 +/- 6.59E-002	6.48E-002 +/- 7.25E-003

AG 7/21/15

0000123599.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	1	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	1	0	0	0
137:	0	1	0	0	2	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	1	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	1	0	0
225:	0	0	1	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	1	0	1	0	0	0	0	0
249:	0	0	0	0	0	0	1	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	1
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	1	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
377:	0	0	0	0	0	1	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	1	1	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	1	0	0	0	1	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	1	0	1	0	0
433:	0	0	1	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	1	0	0	0	0	0	1	0
481:	0	0	0	1	0	0	0	0
489:	0	0	0	0	0	1	0	0
497:	0	0	0	0	0	1	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	0
529:	0	0	0	0	1	2	0	0
537:	0	0	0	0	0	0	0	0
545:	1	1	0	0	0	2	0	0
553:	1	0	0	1	1	0	2	1
561:	0	2	1	1	1	2	0	0
569:	2	2	1	0	2	0	1	4
577:	1	5	0	2	3	2	0	5
585:	1	3	6	3	9	8	4	2
593:	7	5	6	6	11	5	8	6
601:	8	10	10	15	10	11	12	4
609:	7	12	9	21	11	9	17	16
617:	12	12	5	9	8	4	4	3
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	1	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	1	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

ICB 7/21/15

Sample Description: FEEBRISID-12 074-075
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 123493
Reagent Blank: <not performed>

Sample Size: 1.192E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:20 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1773 +/- 0.0105
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 0.9468 +/- 0.0584

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.276	337.32	10.68	0.68	0.00E+000	22.3
U-234		4.728	18.32	46.78	0.68	0.00E+000	6.0
U-235		4.353	1.83	152.56	0.17	0.00E+000	3.0
U-238		4.157	16.94	52.41	3.06	0.00E+000	7.5

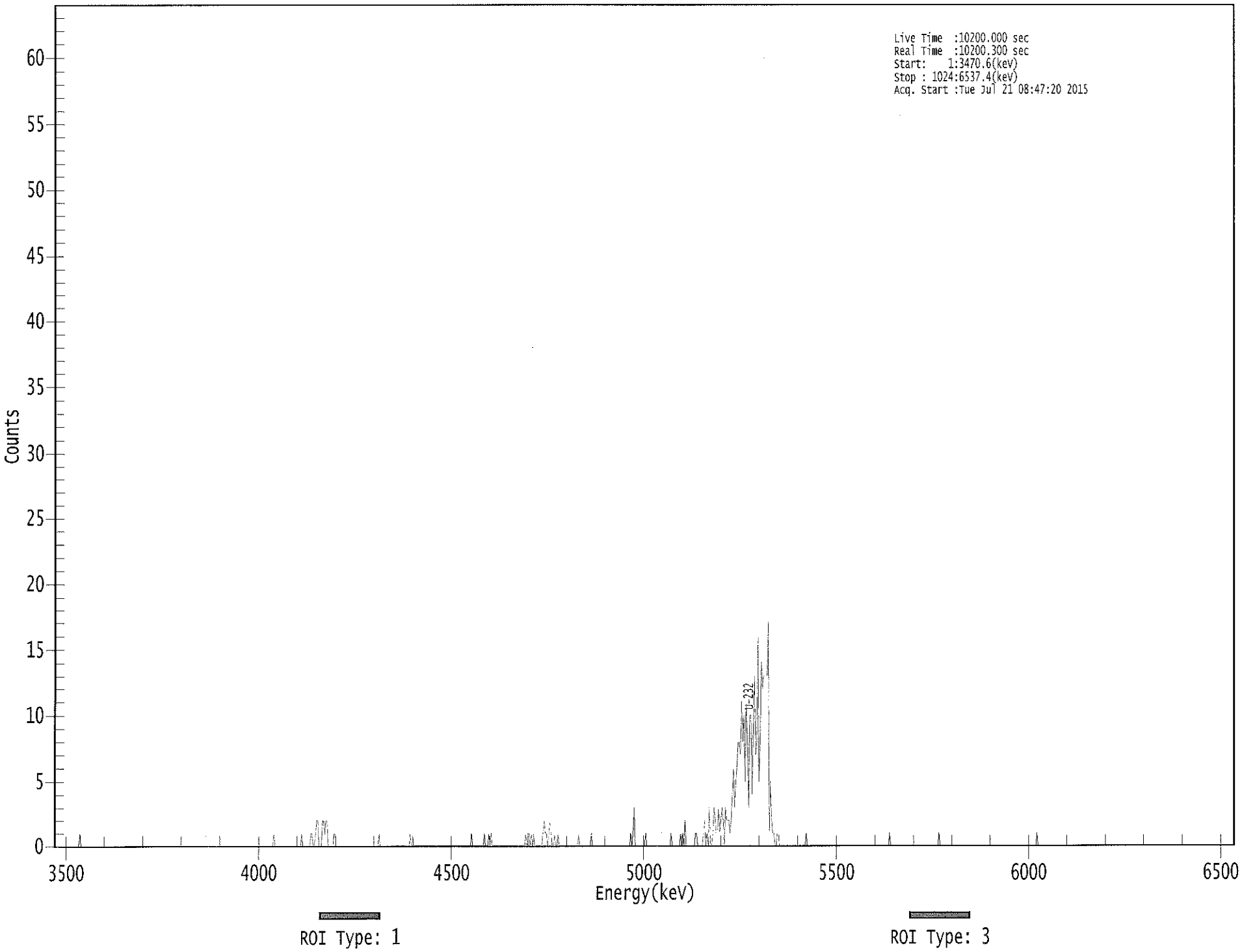
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	4.24E+000 +/- 4.92E-001	7.09E-002 +/- 8.22E-003
U-234	0.992	4761.50*	2.30E-001 +/- 1.11E-001	7.08E-002 +/- 8.22E-003
U-235	0.993	4385.50*	2.84E-002 +/- 4.34E-002	6.47E-002 +/- 7.50E-003
U-238	0.994	4184.40*	2.12E-001 +/- 1.14E-001	1.12E-001 +/- 1.30E-002

AG 7/21/15

0000123581.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	1	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	1	0
217:	0	0	0	0	0	0	1	1
225:	0	0	1	2	2	0	0	0
233:	2	2	1	2	2	0	0	0
241:	0	0	1	1	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	1	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	1	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	1	0	0	0	0	0	0

369:	0	0	0	0	1	0	0	0

Sample Title: 08

Channel								
377:	1	0	1	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	1	0	1	1	0	1	0	1
417:	0	0	0	0	0	0	0	1
425:	2	1	1	0	1	2	1	0
433:	0	1	0	0	1	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	1	0
457:	0	0	0	0	0	0	0	0
465:	0	1	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	1	0	1	3	0
505:	0	0	0	0	0	0	0	0
513:	1	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	1	0
537:	0	0	0	0	0	0	1	0
545:	1	0	2	0	0	0	0	0
553:	0	0	0	1	1	0	0	0
561:	0	0	1	2	0	1	0	3
569:	0	0	1	3	2	1	1	3
577:	1	2	3	2	0	3	2	2
585:	2	1	2	4	6	3	5	6
593:	8	8	7	11	8	10	5	11
601:	8	3	10	10	4	9	13	7
609:	8	16	5	8	14	12	13	13
617:	13	13	17	1	5	2	1	1
625:	0	0	1	1	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	1	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	1	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	1	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	1	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

NCB 7/31/15

Apex-Alpha™

Sample Description: FEEBRISID-15 077-080
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 123494
Reagent Blank: <not performed>

Sample Size: 1.308E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/2/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:22 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1596 +/- 0.0099
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 0.9184 +/- 0.0591

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.273	302.83	11.27	0.17	0.00E+000	7.0
U-234		4.695	11.32	60.27	0.68	0.00E+000	3.0
U-235		4.399	-0.34	592.90	0.34	0.00E+000	0.0
U-238		4.150	6.15	85.19	0.85	0.00E+000	3.0

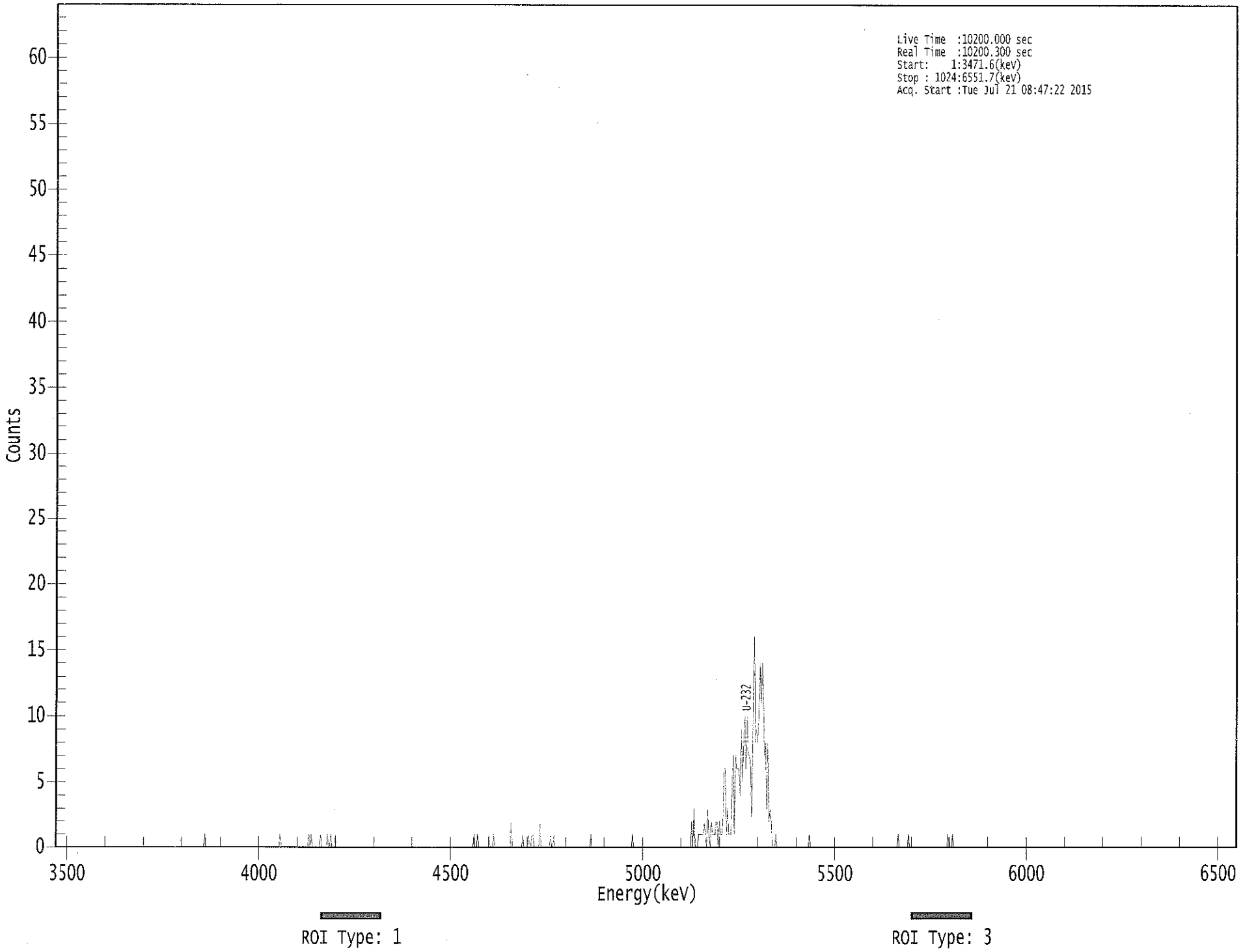
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.994	5302.50*	3.85E+000 +/- 4.68E-001	5.31E-002 +/- 6.45E-003
U-234	0.969	4761.50*	1.44E-001 +/- 8.85E-002	7.18E-002 +/- 8.71E-003
U-235	0.999	4385.50*	-5.34E-003 +/- 3.16E-002	7.50E-002 +/- 9.11E-003
U-238	0.992	4184.40*	7.79E-002 +/- 6.70E-002	7.58E-002 +/- 9.20E-003

AG 7/31/15

0000123582.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	1	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	1	0	1	0	0
225:	0	0	0	0	0	1	0	0
233:	0	0	0	1	0	0	1	0
241:	0	0	1	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	0	0	1	0	0

369:	0	0	0	0	0	0	0	1

Sample Title: 09

Channel								
377:	0	0	0	1	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	2	0	0	0	0	0
401:	0	0	0	0	1	0	0	0
409:	0	1	0	0	1	1	0	0
417:	0	0	0	2	0	0	0	0
425:	0	0	0	0	1	0	0	1
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	1
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	1	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	2	0
553:	3	0	0	0	1	1	1	1
561:	1	2	1	0	3	1	0	2
569:	1	1	1	2	2	0	2	1
577:	1	2	6	6	1	3	1	1
585:	1	5	7	1	7	6	6	6
593:	4	9	5	8	10	6	10	7
601:	7	6	2	11	16	8	9	8
609:	10	14	11	14	11	7	8	3
617:	8	2	3	2	0	0	0	1
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	1	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	1	0	0	0	0	0	0
737:	0	0	1	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	1	0	0	0
777:	1	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KA 7/21/15

Sample Description: FEEBRISID-15 085-086
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 123495
Reagent Blank: <not performed>

Sample Size: 1.222E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/2/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:23 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.602 mL
Effective Efficiency: 0.1858 +/- 0.0108
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.9297 +/- 0.0563

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.278	353.15	10.44	0.85	0.00E+000	21.8
U-234		4.733	39.49	31.42	0.51	0.00E+000	4.0
U-235		4.394	2.49	138.29	0.51	0.00E+000	3.0
U-238		4.159	41.00	30.98	0.00	0.00E+000	3.5

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	4.13E+000 +/- 4.70E-001	7.01E-002 +/- 7.97E-003
U-234	0.994	4761.50*	4.62E-001 +/- 1.54E-001	6.14E-002 +/- 6.98E-003
U-235	0.999	4385.50*	3.59E-002 +/- 4.99E-002	7.57E-002 +/- 8.61E-003
U-238	0.995	4184.40*	4.77E-001 +/- 1.58E-001	6.98E-002 +/- 7.94E-003

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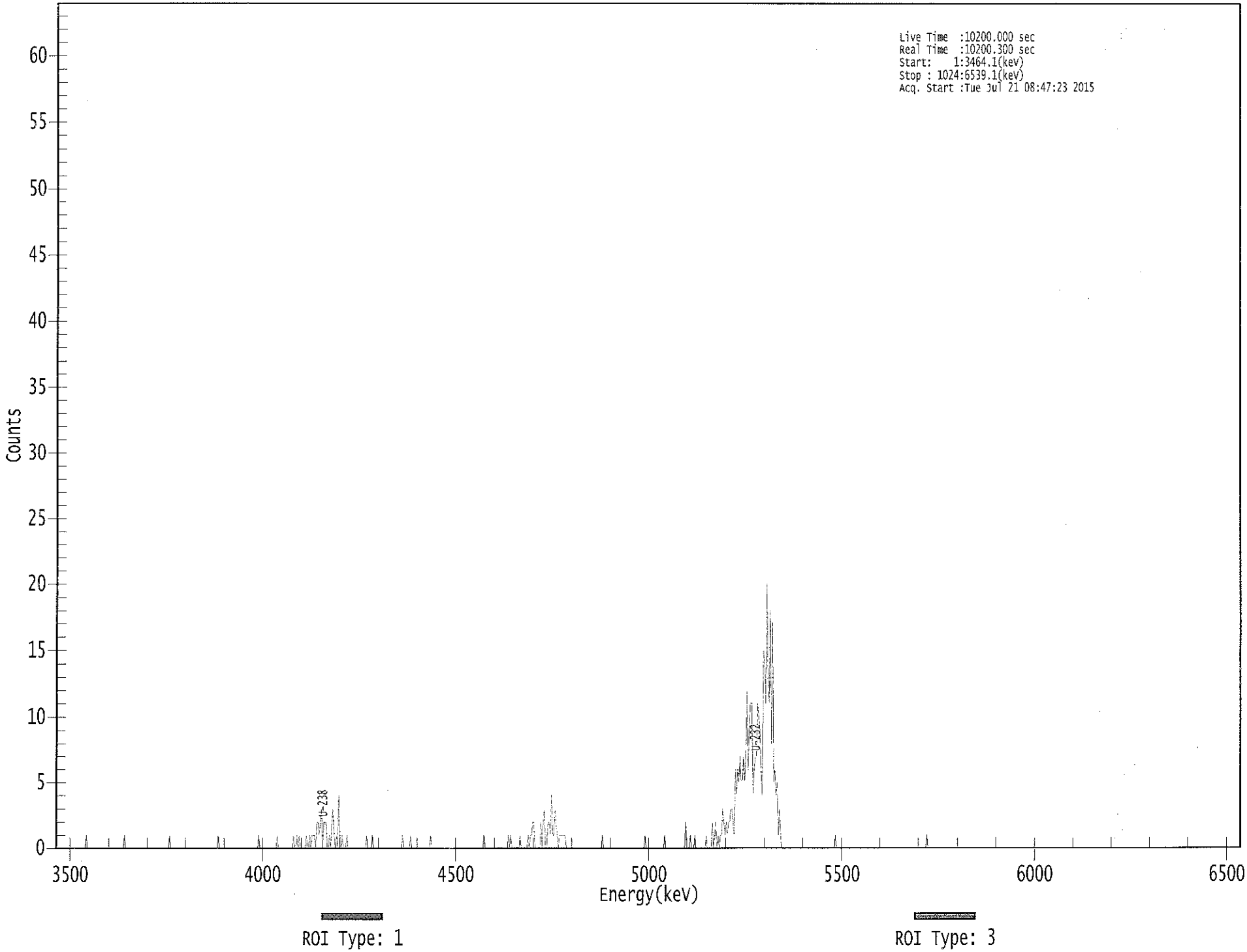
0000123583.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	1	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	1	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	1	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	1	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	1
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	1	0	0
209:	1	0	1	0	0	0	0	0
217:	1	0	0	1	0	1	1	1
225:	0	2	2	1	2	3	0	2
233:	2	2	0	0	1	0	2	3
241:	1	0	1	0	4	1	0	1
249:	0	0	0	1	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	1	0	0	0
273:	0	1	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	1	0	0	0	0
305:	0	0	1	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	1	0	0	0	0	0	0

Sample Title: 10

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	1	0
393:	1	0	0	0	0	0	0	0
401:	1	0	0	0	0	0	0	1
409:	0	1	1	2	2	0	0	0
417:	0	0	2	0	2	3	0	0
425:	2	2	1	4	1	1	3	2
433:	1	0	1	1	1	1	1	1
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	1	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	2
545:	0	0	0	1	0	0	0	1
553:	0	0	0	0	0	0	0	0
561:	0	1	0	0	0	0	2	0
569:	1	2	0	1	0	1	1	3
577:	2	1	2	1	2	2	3	3
585:	2	1	6	4	6	5	7	5
593:	5	7	5	7	12	6	10	11
601:	11	4	6	7	7	11	10	9
609:	6	4	15	14	11	20	13	11
617:	18	8	17	5	6	4	5	1
625:	3	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	1	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	1
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	FEEBRISID-11 085-086
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification:	1507047A-UU
Sample Identification:	11
Sample Geometry:	Shelf 2
Procedure Description:	U iso
Detector Name:	Alpha_044
Chamber Serial Number:	04026481B
Detector Serial Number:	84168
Env. Background:	System Bkgd 123496
Reagent Blank:	<not performed>
Sample Size:	1.174E+000 +/- 0.000E+000 gram
Sample Date/Time:	7/2/2015 6:23:20 AM
Acquisition Date/Time:	7/21/2015 8:47:25 AM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	U232_UU-10A
Tracer Quantity:	0.602 mL
Effective Efficiency:	0.1874 +/- 0.0108
Counting Efficiency:	0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor:	1.0200 +/- 0.0616
Peak Match Tolerance:	0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.285	355.83	10.39	0.17	0.00E+000	29.8
U-234		4.733	123.00	17.74	0.00	0.00E+000	10.2
U-235		4.386	5.00	96.02	0.00	0.00E+000	3.0
U-238		4.166	117.49	18.13	0.51	0.00E+000	5.7

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	4.30E+000 +/- 4.87E-001	5.04E-002 +/- 5.71E-003
U-234	0.994	4761.50*	1.48E+000 +/- 3.13E-001	7.24E-002 +/- 8.20E-003
U-235	1.000	4385.50*	7.45E-002 +/- 7.20E-002	8.93E-002 +/- 1.01E-002
U-238	0.998	4184.40*	1.41E+000 +/- 3.02E-001	6.31E-002 +/- 7.15E-003

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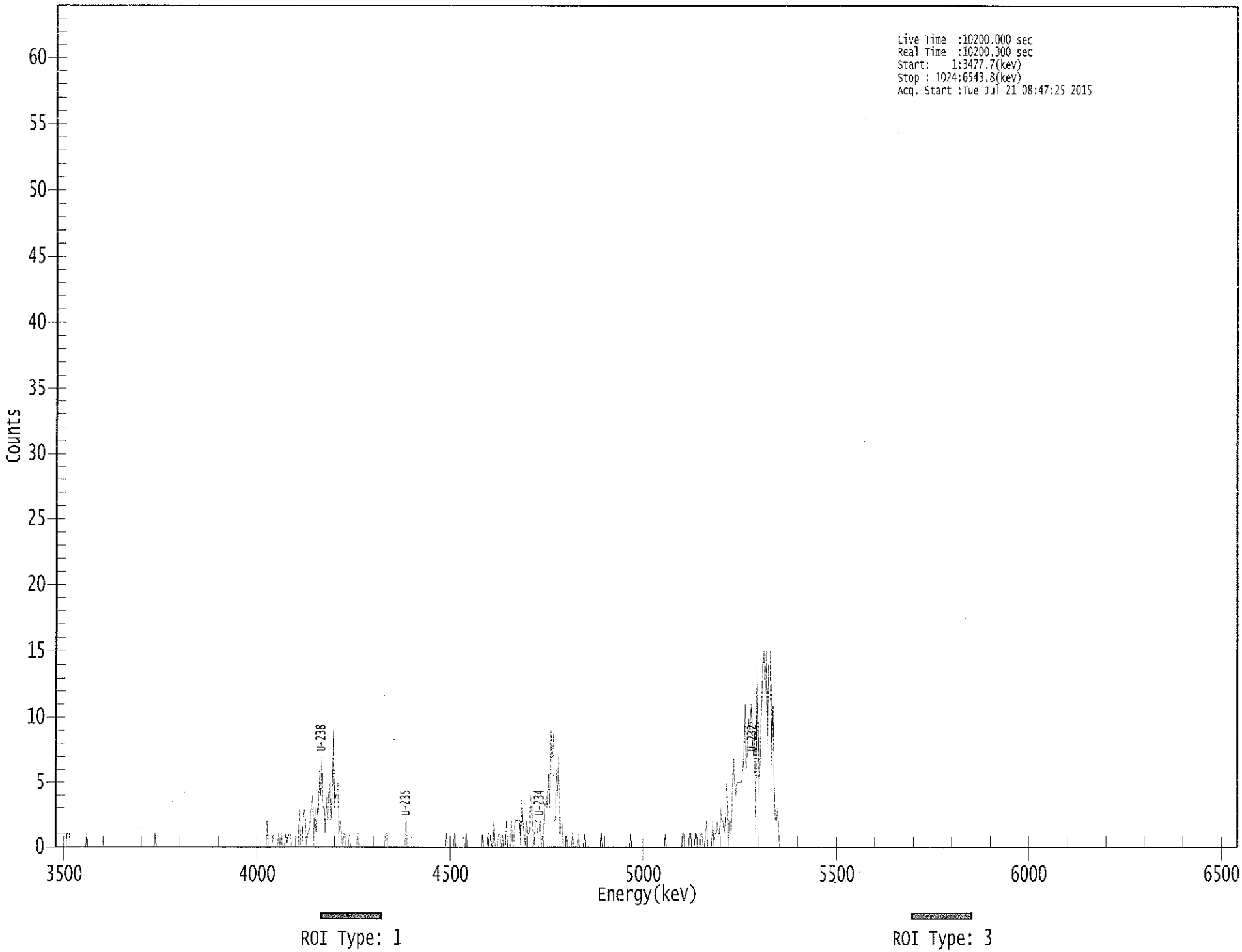


****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	0	1	1	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	1	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	1	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	2
185:	0	0	0	0	1	0	0	0
193:	0	1	0	1	0	0	0	1
201:	0	1	1	1	0	0	0	0
209:	0	0	0	3	0	0	2	3
217:	2	0	1	1	2	3	4	0
225:	3	1	3	2	6	4	7	3
233:	3	1	4	2	4	5	2	5
241:	9	3	4	4	5	1	2	1
249:	0	1	1	0	0	0	1	0
257:	0	0	0	0	0	1	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	1	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	2
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	1	0	0	0	0	0
345:	0	1	0	0	0	0	0	0
353:	0	0	0	1	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	1	0	0	0	0	1	1

Sample Title: 11

Channel								
377:	1	0	0	2	0	0	0	1
385:	1	0	0	1	0	0	2	0
393:	0	0	2	0	0	2	2	2
401:	2	2	0	4	2	1	0	2
409:	1	1	1	4	3	1	0	2
417:	2	1	1	2	0	1	0	3
425:	4	3	6	3	9	6	9	2
433:	2	6	4	7	1	2	2	0
441:	0	0	1	0	0	0	0	1
449:	0	0	0	0	1	0	0	0
457:	0	1	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	1	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	1	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	1
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	1	1
545:	0	0	0	0	1	1	0	0
553:	0	1	1	0	0	0	1	1
561:	0	0	1	2	0	0	0	0
569:	2	0	1	1	2	1	1	3
577:	2	2	1	2	5	3	0	2
585:	1	4	7	5	4	5	5	5
593:	5	5	6	7	11	6	8	10
601:	9	11	9	7	9	1	14	9
609:	4	8	11	14	15	12	15	8
617:	14	14	15	6	11	5	2	2
625:	3	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

ICB 7/21/15

Sample Description: FEEBRISID-11 087-088
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001235
Batch Identification: 1507047A-UU
Sample Identification: 12
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 123497
Reagent Blank: <not performed>

Sample Size: 1.149E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/2/2015 6:23:20 AM
Acquisition Date/Time: 7/21/2015 8:47:27 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1738 +/- 0.0104
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 0.9787 +/- 0.0610

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.279	330.62	10.82	2.38	0.00E+000	39.4
U-234		4.734	64.64	24.68	1.36	0.00E+000	4.4
U-235		4.392	3.98	112.01	1.02	0.00E+000	3.0
U-238		4.155	55.62	26.93	2.38	0.00E+000	4.8

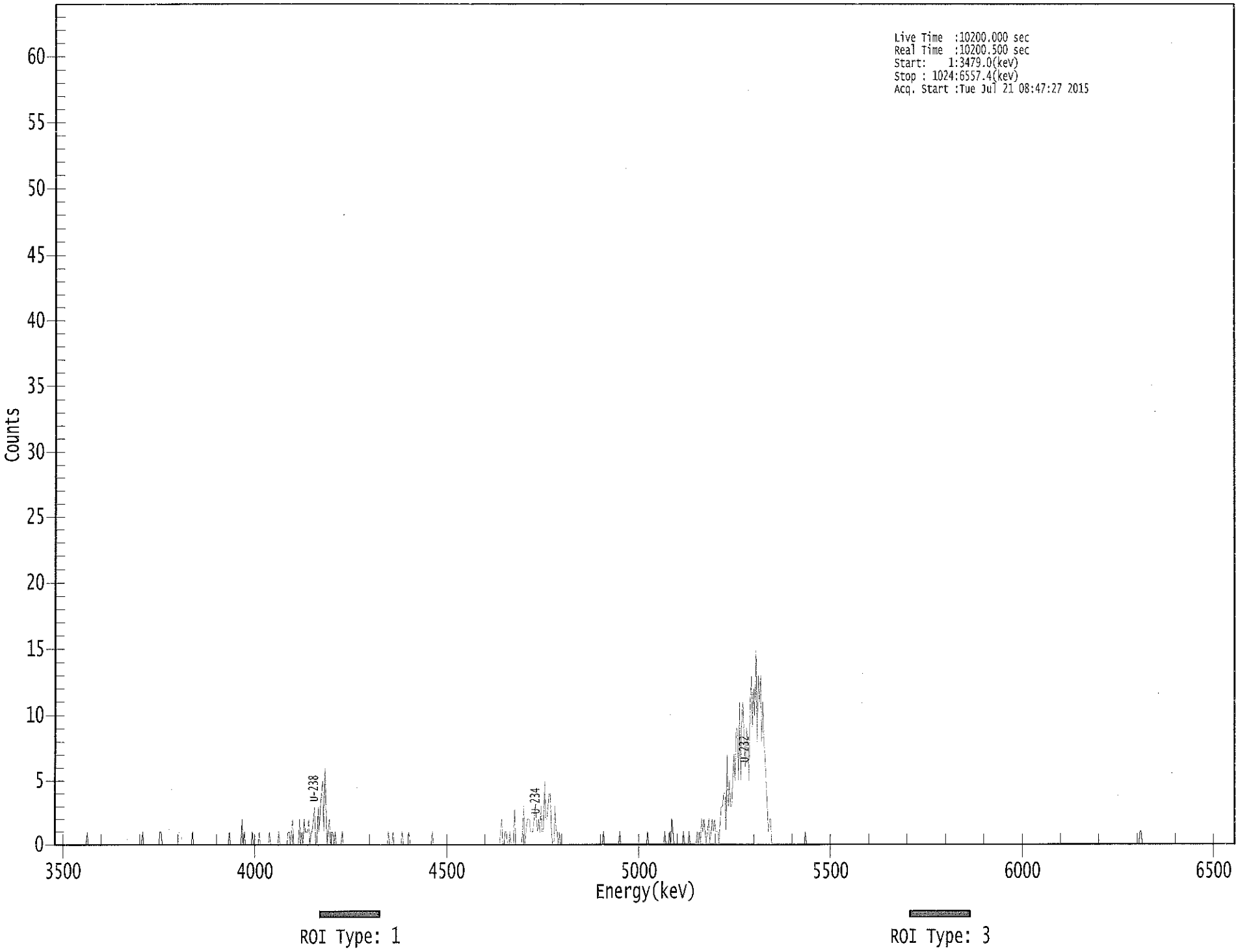
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	4.40E+000 +/- 5.16E-001	1.09E-001 +/- 1.28E-002
U-234	0.995	4761.50*	8.59E-001 +/- 2.35E-001	9.11E-002 +/- 1.07E-002
U-235	1.000	4385.50*	6.53E-002 +/- 7.35E-002	1.03E-001 +/- 1.21E-002
U-238	0.994	4184.40*	7.36E-001 +/- 2.16E-001	1.08E-001 +/- 1.27E-002

AG 7/21/15

0000123574.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 12

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	1	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	1	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	1	1	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	1
153:	0	0	0	0	0	0	0	0
161:	0	0	2	0	1	0	0	0
169:	0	0	0	1	0	0	0	0
177:	0	1	0	0	0	0	0	0
185:	0	0	1	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	0	0	1	1	0	1	2	0
209:	0	0	0	0	2	0	1	0
217:	2	1	1	1	2	0	1	1
225:	2	3	0	0	3	1	3	4
233:	5	1	6	3	0	1	2	0
241:	1	1	0	1	0	0	0	0
249:	0	1	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	1	0	0	0	1	0	0
297:	0	0	0	0	0	1	0	0
305:	0	0	0	1	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	1
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 12

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	1	2	0	0	1	1
393:	0	0	1	0	0	0	3	0
401:	0	0	0	0	0	1	3	0
409:	1	2	2	2	1	1	1	2
417:	3	2	1	2	1	3	1	1
425:	5	2	2	3	4	4	1	0
433:	0	3	1	1	0	1	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	1	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	1	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	1	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	1	0	0	0	1	0	2	1
537:	0	0	0	0	0	0	0	0
545:	1	0	0	0	0	1	0	0
553:	0	0	0	0	1	0	1	0
561:	2	1	2	1	0	1	2	0
569:	1	2	1	2	1	1	1	0
577:	2	3	3	4	4	1	7	3
585:	5	3	3	5	7	5	9	9
593:	5	11	5	10	11	8	6	9
601:	8	5	11	13	9	12	10	15
609:	8	13	11	13	8	11	8	7
617:	5	3	1	2	2	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	1	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 12

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	1	1	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/21/2015 5:37:30 AM

Apex-Alpha™

QA SUMMARY REPORT
Review Of QA Results - Pulser Check

Date : 7/21/2015
Time : 5:37:30 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/21/2015 5:18:51 AM
Alpha_004	21f	ALL	Passed	7/21/2015 5:18:52 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/21/2015 5:18:53 AM
Alpha_011	21f	ALL	Passed	7/21/2015 5:18:53 AM
Alpha_012	21f	ALL	Passed	7/21/2015 5:18:54 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/21/2015 5:18:55 AM
Alpha_015	21f	Peak Energy	Action	7/21/2015 5:18:56 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:18:57 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:18:59 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:00 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:02 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:03 AM
Alpha_038	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:05 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:06 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:08 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:09 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:11 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:13 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:14 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:16 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:18 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:20 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:21 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:23 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:25 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:28 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:30 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:32 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	7/21/2015 5:19:34 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:37 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:39 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:42 AM

7/21/2015 5:37:30 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:45 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:48 AM

APPROVED BY: _____

APPROVAL DATE: 7/21

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

RUN 2

15-07047
UUISO
Run 2

Work Order	15-07047
Analysis Code	UUISO
Run	2
Date Received	7/9/2015
Lab Deadline	7/31/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.69
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/10/15 00:00	1.0000E+00
02	MBL	BLANK		07/10/15 00:00	1.0000E+00
03	DUP	DUPLICATE 2	41	07/06/15 13:09	1.0005E+00
06	DO	DUPLICATE 2	41	07/06/15 13:09	1.0005E+00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-07047
UUISO
Run 2

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6613	12.4		0.00								
02	MBL	0.6589	12.3		0.00								
03	DUP	0.6582	12.3		0.00								
06	DO	0.6580	12.3		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-07047
UUISO
Run 2

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			07/22/15 09:44	TSMITH				
02	MBL			07/22/15 09:44	TSMITH				
03	DUP			07/22/15 09:44	TSMITH				
06	DO	07/13/15 07:04	KSALLINGS	07/22/15 09:44	TSMITH				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

00169

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: UUISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	7.34E+00	1.10E+00	9.40E-02	8.15E+00	90.11	OK		OK	
02	U-234	MBL	BLANK	pCi/g	6.71E-02	1.01E-01	1.63E-01					OK	OK
03	U-234	DUP	DUPLICATE 2	pCi/g	2.04E-01	1.18E-01	8.55E-02				NA	OK	
06	U-234	DO	DUPLICATE 2	pCi/g	1.46E-01	1.02E-01	9.75E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07047	UUISO	2

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	07/10/15 00:00	1.00E+00	85.02	0.00	0.00			
02	U-234	MBL	07/10/15 00:00	1.00E+00	52.83	0.00	0.00			
03	U-234	DUP	07/06/15 13:09	1.00E+00	81.48	0.00	0.00			
06	U-234	DO	07/06/15 13:09	1.00E+00	88.84	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07047

Analysis Code: UUISO

Run: 2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	07/24/15 08:37		A_Spec	Alpha_041	170	4.40 E+02	4.00 E-03	18.7
02	U-234	MBL	07/24/15 08:37		A_Spec	Alpha_042	170	2.32 E+00	4.00 E-03	17.4
03	U-234	DUP	07/24/15 08:37		A_Spec	Alpha_043	170	1.25 E+01	3.00 E-03	20
06	U-234	DO	07/24/15 08:37		A_Spec	Alpha_044	170	9.00 E+00	0.00 E+00	18.4

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07047

Analysis Code: UUISO

Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	7.34E+00	1.10E+00	1.48E-01	7.94E+00	92.39	OK		OK	
02	U-238	MBL	BLANK	pCi/g	-2.45E-02	6.05E-02	1.72E-01					OK	OK
03	U-238	DUP	DUPLICATE 2	pCi/g	9.74E-02	8.49E-02	9.73E-02				NA	OK	
06	U-238	DO	DUPLICATE 2	pCi/g	5.65E-02	6.45E-02	8.50E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07047	UUISO	2

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	07/10/15 00:00	1.00E+00	85.02	0.00	0.00			
02	U-238	MBL	07/10/15 00:00	1.00E+00	52.83	0.00	0.00			
03	U-238	DUP	07/06/15 13:09	1.00E+00	81.48	0.00	0.00			
06	U-238	DO	07/06/15 13:09	1.00E+00	88.84	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: UUISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	07/24/15 08:37		A_Spec	Alpha_041	170	4.42 E+02	1.80 E-02	18.7
02	U-238	MBL	07/24/15 08:37		A_Spec	Alpha_042	170	-8.50 E-01	5.00 E-03	17.4
03	U-238	DUP	07/24/15 08:37		A_Spec	Alpha_043	170	6.00 E+00	0.00 E+00	20
06	U-238	DO	07/24/15 08:37		A_Spec	Alpha_044	170	3.49 E+00	3.00 E-03	18.4

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: UUISO
Run: 2

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	6.56E-01	2.41E-01	8.58E-02					OK	
02	U-235	MBL	BLANK	pCi/g	-1.21E-02	7.20E-02	1.71E-01					OK	OK
03	U-235	DUP	DUPLICATE 2	pCi/g	9.85E-03	4.11E-02	1.06E-01				NA	OK	
06	U-235	DO	DUPLICATE 2	pCi/g	4.01E-02	6.83E-02	1.20E-01					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07047	UUISO	2

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	07/10/15 00:00	1.00E+00	85.02	0.00	0.00			
02	U-235	MBL	07/10/15 00:00	1.00E+00	52.83	0.00	0.00			
03	U-235	DUP	07/06/15 13:09	1.00E+00	81.48	0.00	0.00			
06	U-235	DO	07/06/15 13:09	1.00E+00	88.84	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-UUISO-2

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07047	UUISO	2

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	07/24/15 08:37		A_Spec	Alpha_041	170	3.18 E+01	1.00 E-03	18.7
02	U-235	MBL	07/24/15 08:37		A_Spec	Alpha_042	170	-3.40 E-01	2.00 E-03	17.4
03	U-235	DUP	07/24/15 08:37		A_Spec	Alpha_043	170	4.90 E-01	3.00 E-03	20
06	U-235	DO	07/24/15 08:37		A_Spec	Alpha_044	170	2.00 E+00	0.00 E+00	18.4

Count Room Report
Client: AMO Environmental Decisio

15-07047-UUISO-2 (pCi/g) in
Tracer ID: U-10a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/10/15 00:00	1.0000	0.6613	12.3597		0.00		
02	MBL	BLANK	07/10/15 00:00	1.0000	0.6589	12.3148		0.00		
03	DUP	DUPLICATE 2	07/06/15 13:09	1.0005	0.6582	12.3018		0.00		
06	DO	DUPLICATE 2	07/06/15 13:09	1.0005	0.6580	12.2980		0.00		

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-07047	2	UUISO	7/22/2015 9:38	TSMITH		

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	*Sol #*	*Activity dpm/g*	*Solution Date*	*Approx Addition*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*
U-234	U-8a	35.240	7/22/2015	0.500	0.5132				8.15	0.293	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	7/22/2015	0.500	0.5132				7.94	0.286	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	*Isotope*	*Sol #*	*Activity dpm/g*	*Solution Date*	*Volume Used (g)*	*Approx Addition*
01	U-232	U-10a	18.690	7/22/2015	0.6613	0.6500
02	U-232	U-10a	18.690	7/22/2015	0.6589	0.6500
03	U-232	U-10a	18.690	7/22/2015	0.6582	0.6500
06	U-232	U-10a	18.690	7/22/2015	0.6580	0.6500

Balance Printer Tapes

Tracer

Matrix Spike

-0.5132 g

-0.6613 g
-0.6589 g
-0.6582 g
-0.6580 g

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07047	2	UUISO	grams	7/31/2015	TSMITH

Lab Fraction	AMO Environmental Decisions	Sample	Muffle Data	Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
	Client ID	Type	Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	DUPLICATE 2	DUP		1	14.99	6.67E-02	1.5000E+01	1.0005E+00				
06	DUPLICATE 2	DO		1	14.99	6.67E-02	1.5000E+01	1.0005E+00				

Comments	

Technician: [signature] Date: 7/22/15

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 03 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	2
	Analyst	TSMITH

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.67**	ml	from the original sample and diluted it to	**100**	ml	0.0667
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0667**
Dilution Factor	**14.99250375**

Diluted by: [signature]

Date: 7-22-15

: 00182

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 06 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**2**
	Analyst	**TSMITH**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.67**	ml	from the original sample and diluted it to	**100**	ml	0.0667
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0667**
Dilution Factor	**14.99250375**

Diluted by: [signature]

Date: 7-22-15

00183

KD 7/24/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001239
Batch Identification: 1507047B-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 123493
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 5:58:01 AM
Acquisition Date/Time: 7/24/2015 8:37:05 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.661 mL
Effective Efficiency: 0.1592 +/- 0.0095
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 0.8502 +/- 0.0527

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 0.900618 +/- 0.073869
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

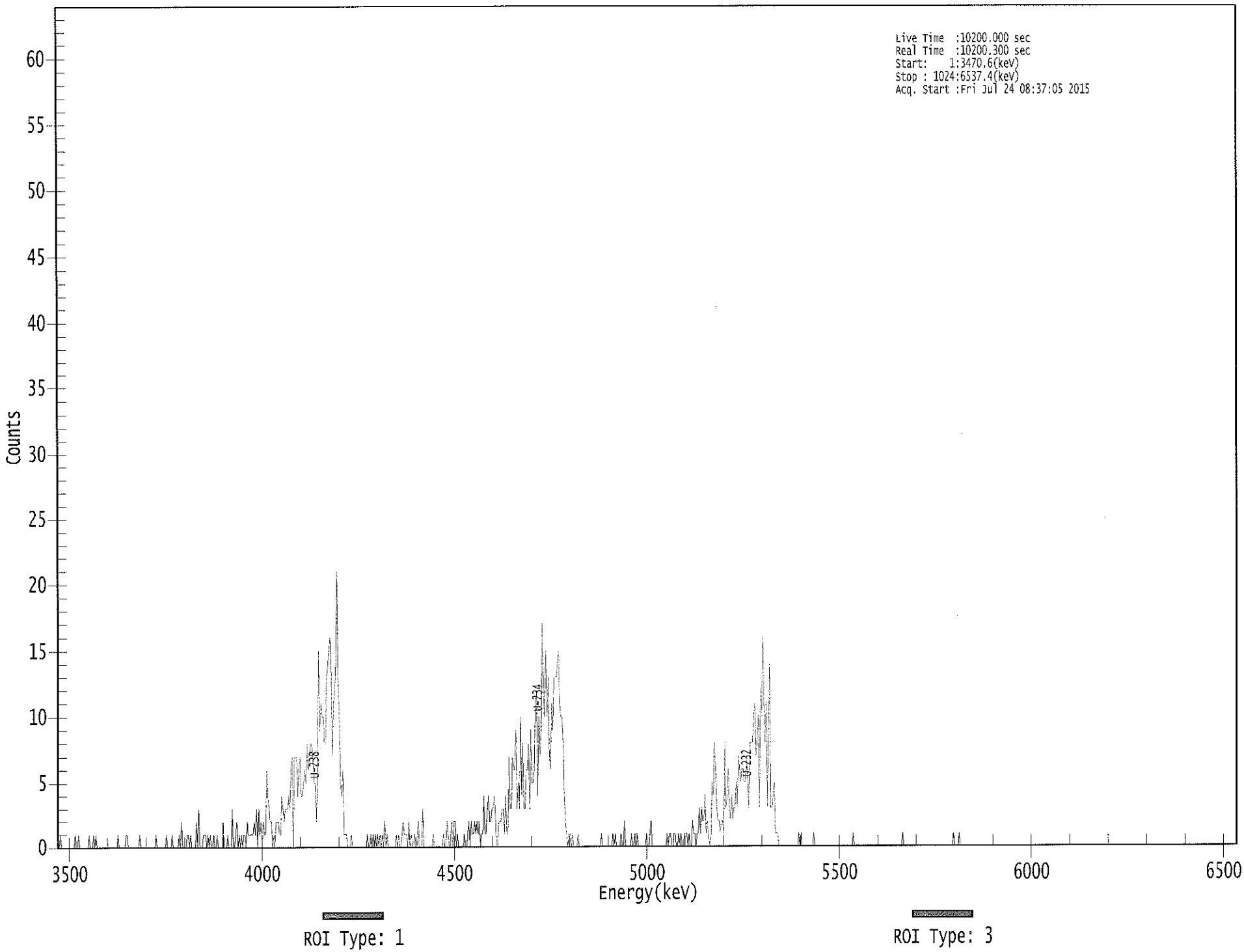
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.263	332.32	10.76	0.68	0.00E+000	13.3
U-234		4.719	440.32	9.35	0.68	0.00E+000	21.0
U-235		4.399	31.83	34.85	0.17	0.00E+000	3.0
U-238		4.140	441.94	9.36	3.06	0.00E+000	14.9

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.989	5302.50*	5.54E+000 +/- 6.47E-001	9.40E-002 +/- 1.10E-002
U-234	0.987	4761.50*	7.34E+000 +/- 1.10E+000	9.40E-002 +/- 1.10E-002
U-235	0.999	4385.50*	6.55E-001 +/- 2.41E-001	8.58E-002 +/- 1.00E-002
U-238	0.986	4184.40*	7.34E+000 +/- 1.10E+000	1.48E-001 +/- 1.73E-002

0000123959.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	1	0	0	0	0	0
9:	0	0	0	0	0	0	0	1
17:	0	0	1	0	0	0	0	0
25:	0	0	0	1	0	0	0	1
33:	0	1	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	1	0	0	0
57:	0	0	0	1	1	0	0	0
65:	0	0	0	0	0	0	0	1
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	1	0	0
89:	0	0	0	0	0	0	1	0
97:	0	0	0	1	0	0	0	0
105:	0	1	0	2	0	0	0	0
113:	1	1	0	1	0	0	0	0
121:	2	0	3	0	0	0	1	1
129:	1	0	1	0	1	0	0	1
137:	0	0	1	0	0	0	0	2
145:	0	0	0	1	0	0	0	3
153:	0	0	1	2	0	1	0	1
161:	0	1	1	0	2	1	1	1
169:	1	1	2	1	3	0	3	1
177:	2	0	2	1	1	6	4	3
185:	2	2	0	1	0	2	2	2
193:	1	1	4	3	2	3	3	3
201:	4	3	6	7	0	7	7	7
209:	4	6	7	4	4	5	6	5
217:	8	6	7	8	8	7	5	5
225:	2	7	15	9	11	10	10	8
233:	8	13	14	15	16	14	7	11
241:	12	14	21	13	10	5	4	6
249:	1	1	1	0	0	0	1	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	1	0	0	1
273:	0	1	0	1	0	1	0	1
281:	0	1	0	2	0	1	0	0
289:	0	0	0	0	0	1	0	1
297:	0	0	1	2	1	1	1	0
305:	2	0	1	0	0	1	0	0
313:	2	0	0	0	3	0	0	0
321:	0	0	0	0	0	1	0	0
329:	0	0	0	0	0	0	1	0
337:	0	2	1	0	0	2	0	2
345:	2	0	1	0	0	0	0	0
353:	1	0	0	1	2	0	2	1
361:	1	2	1	2	1	2	0	1

369:	1	4	1	1	3	4	2	2

Sample Title: 01

Channel								
377:	3	3	4	3	0	0	2	2
385:	2	3	3	1	4	1	1	7
393:	3	3	7	6	6	9	3	5
401:	3	10	4	8	3	3	6	6
409:	8	3	9	5	5	6	11	12
417:	4	10	7	9	17	12	10	15
425:	10	13	7	6	11	9	13	13
433:	13	14	15	11	10	10	8	4
441:	2	1	0	1	1	0	1	0
449:	0	0	0	1	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	1	0	1	0	0	0	0
489:	1	0	0	2	0	0	0	0
497:	0	1	0	0	1	0	1	0
505:	0	0	0	0	0	0	1	0
513:	0	1	2	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	1	0	1	1	0	0	1	1
537:	0	0	1	0	1	0	0	1
545:	1	1	0	1	0	0	2	1
553:	1	0	1	1	3	1	3	2
561:	2	4	1	2	1	0	1	5
569:	4	8	6	3	2	2	1	2
577:	2	1	8	3	4	6	3	2
585:	4	2	3	3	5	3	7	6
593:	5	6	6	5	5	7	5	3
601:	8	8	8	10	11	7	8	10
609:	3	12	10	16	11	8	11	3
617:	9	14	3	3	4	5	1	1
625:	1	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	1	0	1	0	0	0
649:	0	0	0	0	0	0	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	1	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	1	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	1	0	0	0	0	1	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/28/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001239
Batch Identification: 1507047B-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 123494
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 5:58:01 AM
Acquisition Date/Time: 7/24/2015 8:37:07 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.659 mL
Effective Efficiency: 0.0918 +/- 0.0070
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 0.5283 +/- 0.0412

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

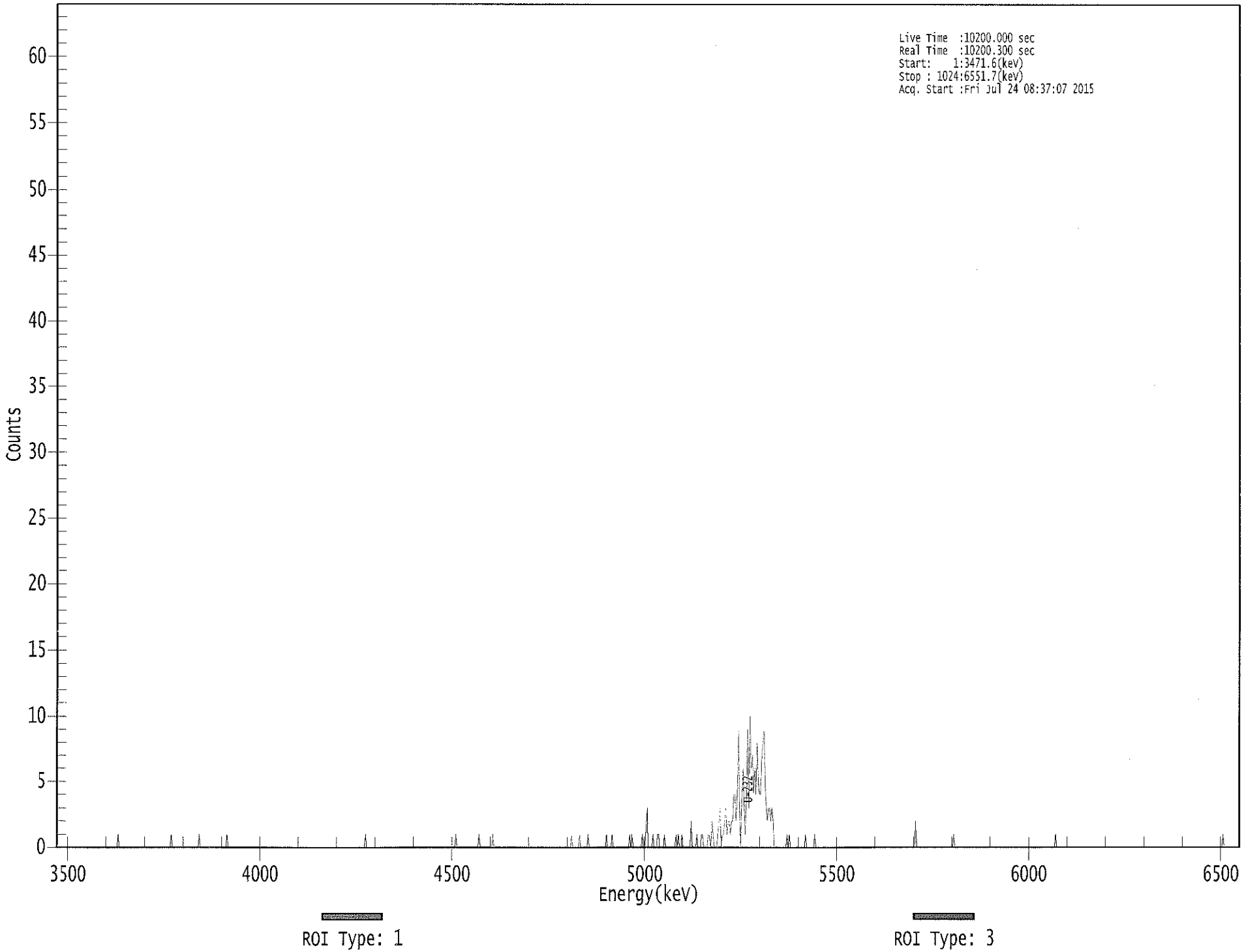
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.271	190.83	14.20	0.17	0.00E+000	10.2
U-234		4.750	2.32	149.12	0.68	0.00E+000	3.0
U-235		4.399	-0.34	592.90	0.34	0.00E+000	0.0
U-238		4.134	-0.85	246.69	0.85	0.00E+000	0.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.993	5302.50*	5.52E+000 +/- 8.22E-001	1.21E-001 +/- 1.80E-002
U-234	0.999	4761.50*	6.71E-002 +/- 1.01E-001	1.63E-001 +/- 2.43E-002
U-235	0.999	4385.50*	-1.21E-002 +/- 7.20E-002	1.71E-001 +/- 2.54E-002
U-238	0.982	4184.40*	-2.45E-002 +/- 6.05E-002	1.72E-001 +/- 2.57E-002

0000123960.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	1	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	1	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	1	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	1	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	1	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	1	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	1	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	1	0	0
449:	0	0	0	0	1	0	0	0
457:	0	0	0	1	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	1	0	0	0	0
481:	1	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	1
497:	0	1	0	0	0	0	0	0
505:	0	0	1	0	0	1	3	0
513:	0	0	0	1	0	0	0	1
521:	1	0	0	0	0	1	0	0
529:	0	0	0	0	0	0	0	1
537:	0	1	0	0	1	0	0	0
545:	0	0	0	0	2	0	0	0
553:	0	1	0	0	0	1	1	0
561:	0	0	0	1	1	0	2	1
569:	0	0	0	1	2	3	0	1
577:	1	2	3	1	2	2	1	2
585:	2	4	4	2	4	9	3	0
593:	4	6	3	1	4	9	3	10
601:	6	7	4	6	4	8	5	4
609:	4	7	8	9	5	3	2	3
617:	3	2	3	2	0	0	0	0
625:	0	0	0	0	0	0	0	1
633:	0	1	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	1
649:	0	0	0	0	0	0	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	2	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	1
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	1
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	1	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/24/15

Apex-Alpha™

Sample Description: DUPLICATE 2-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001239
Batch Identification: 1507047B-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 123495
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 5:58:01 AM
Acquisition Date/Time: 7/24/2015 8:37:01 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.658 mL
Effective Efficiency: 0.1628 +/- 0.0096
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.8148 +/- 0.0502

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

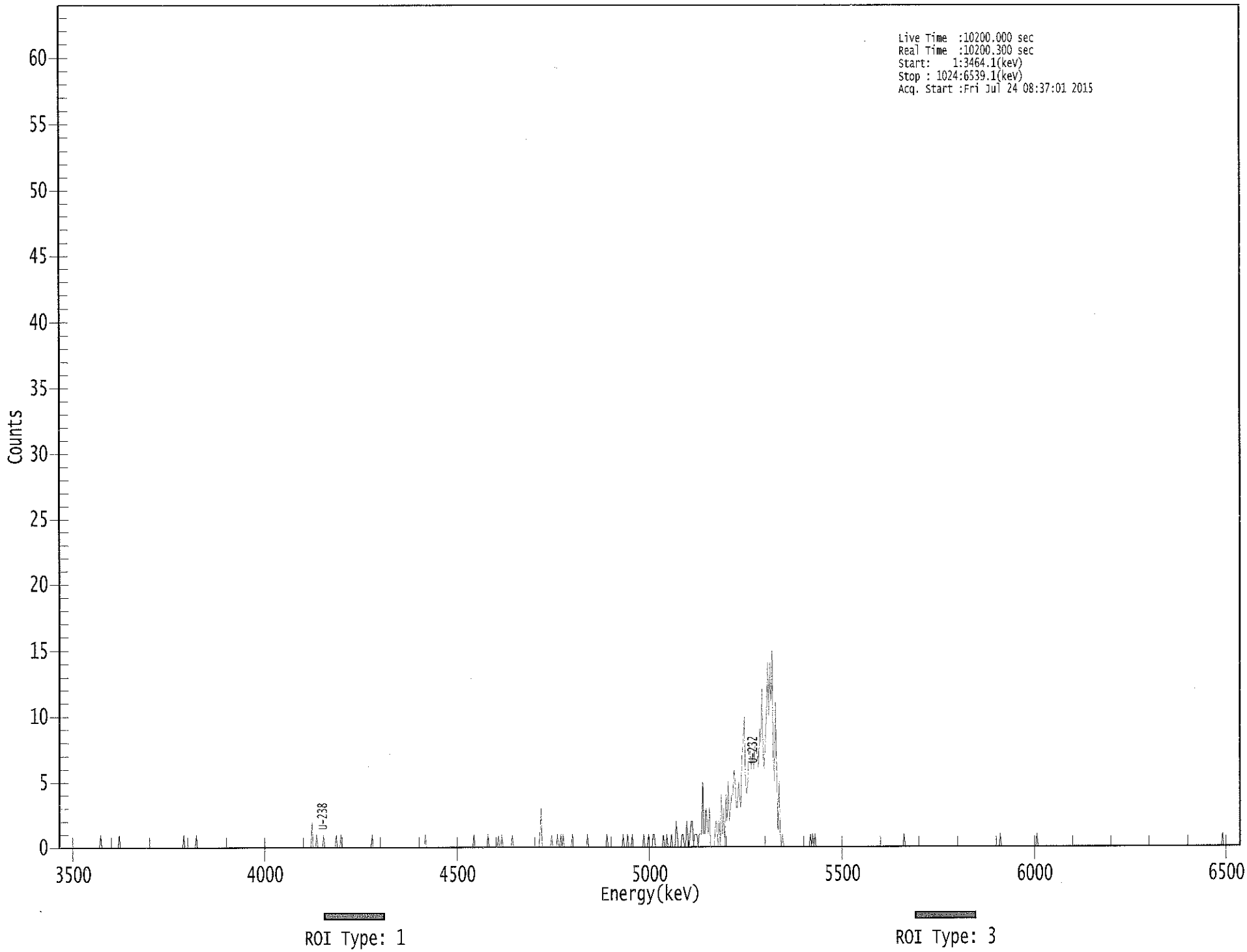
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.272	338.15	10.67	0.85	0.00E+000	21.6
U-234		4.724	12.49	56.77	0.51	0.00E+000	3.8
U-235		4.417	0.49	416.98	0.51	0.00E+000	3.0
U-238		4.152	6.00	86.43	0.00	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.993	5302.50*	5.51E+000 +/- 6.39E-001	9.76E-002 +/- 1.13E-002
U-234	0.990	4761.50*	2.04E-001 +/- 1.18E-001	8.55E-002 +/- 9.91E-003
U-235	0.993	4385.50*	9.85E-003 +/- 4.11E-002	1.06E-001 +/- 1.22E-002
U-238	0.993	4184.40*	9.74E-002 +/- 8.49E-002	9.73E-002 +/- 1.13E-002

0000123961.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	1	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	1	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	2	0	0	0	1
225:	0	0	0	0	0	1	0	0
233:	0	0	0	0	0	0	0	0
241:	1	0	0	0	1	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	1
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	1
361:	0	0	0	0	0	0	0	0

369:	0	0	0	1	0	0	0	0

Sample Title: 03

Channel								
377:	0	0	0	0	1	0	0	1
385:	0	0	0	0	0	0	0	0
393:	1	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	1	3	0	0	0	0	0	0
425:	0	0	1	0	0	0	0	1
433:	0	0	1	0	1	0	0	0
441:	0	0	0	0	1	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	1	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	1	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	1	0	0	0	1	0	0	0
497:	1	0	0	0	0	0	0	0
505:	0	0	1	0	0	0	1	0
513:	0	0	1	1	0	0	0	0
521:	0	0	0	1	0	0	1	0
529:	0	0	1	0	0	0	2	1
537:	0	0	0	1	1	0	0	2
545:	1	0	1	2	2	0	1	1
553:	1	0	1	1	1	5	1	1
561:	3	2	1	3	0	0	0	0
569:	2	2	0	2	0	4	1	3
577:	0	4	2	5	2	3	4	4
585:	6	5	3	3	5	4	3	7
593:	8	10	5	4	5	8	7	6
601:	7	6	8	8	7	6	9	8
609:	12	7	6	8	10	14	10	14
617:	11	15	7	5	11	6	1	5
625:	1	0	1	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	1	0	1	0	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	1	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel							
809:	0	0	0	0	0	0	1	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	1	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	1
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 7/24/15

Apex-Alpha™

Sample Description: DUPLICATE 2
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001239
Batch Identification: 1507047B-UU
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 123496
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 5:58:01 AM
Acquisition Date/Time: 7/24/2015 8:37:03 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.658 mL
Effective Efficiency: 0.1632 +/- 0.0096
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 0.8884 +/- 0.0547

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

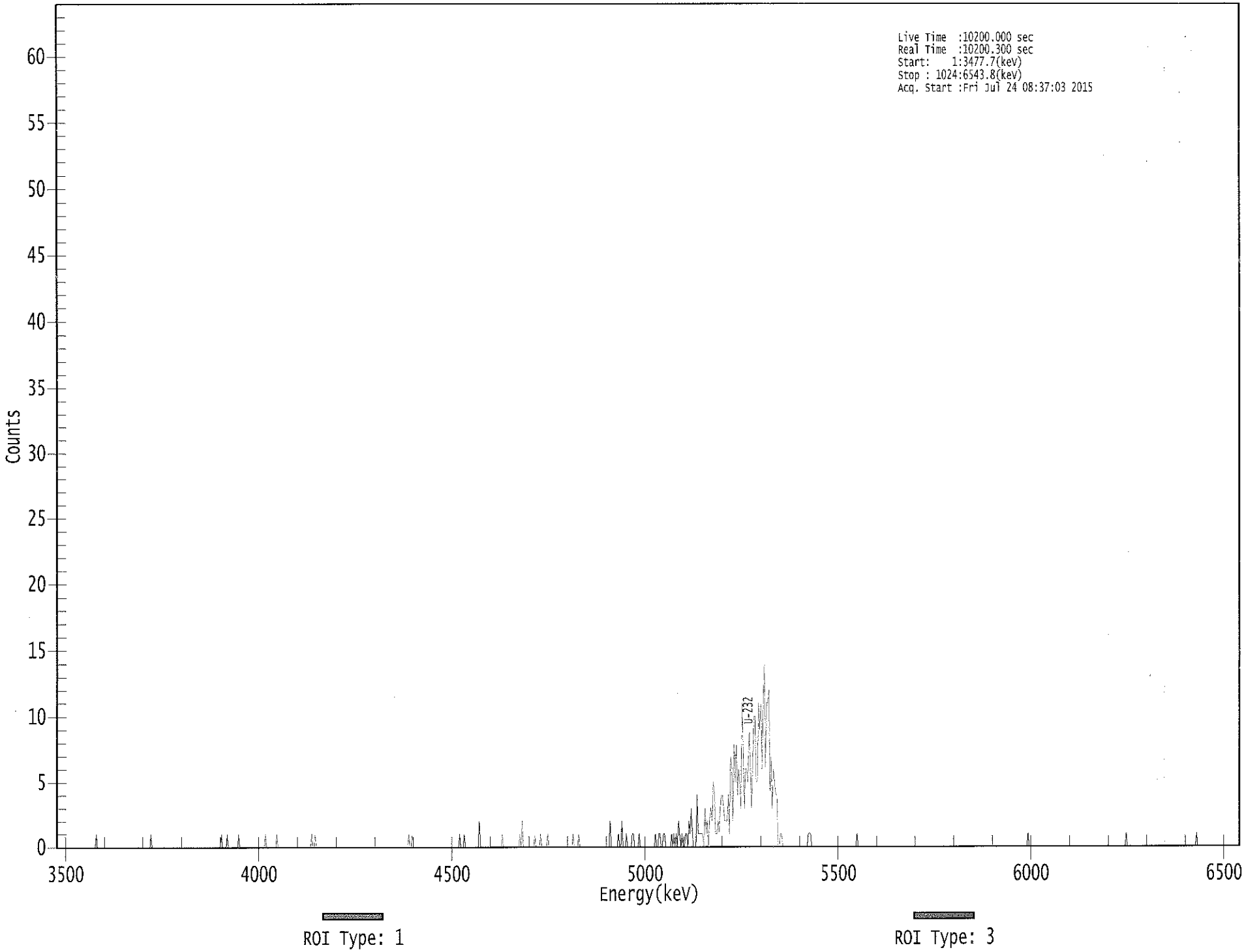
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.270	338.83	10.65	0.17	0.00E+000	8.0
U-234		4.724	9.00	68.87	0.00	0.00E+000	3.0
U-235		4.393	2.00	169.74	0.00	0.00E+000	3.0
U-238		4.087	3.49	113.53	0.51	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.992	5302.50*	5.51E+000 +/- 6.38E-001	6.79E-002 +/- 7.85E-003
U-234	0.990	4761.50*	1.46E-001 +/- 1.02E-001	9.75E-002 +/- 1.13E-002
U-235	1.000	4385.50*	4.01E-002 +/- 6.83E-002	1.20E-001 +/- 1.39E-002
U-238	0.935	4184.40*	5.65E-002 +/- 6.45E-002	8.50E-002 +/- 9.83E-003

0000123962.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	1	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	1	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	1	0
145:	0	0	0	1	0	0	0	0
153:	0	0	0	0	0	1	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	1	0	0	0
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	1	0	0	1
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	1	0	0	1	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	1	0	0	0
353:	1	0	0	0	0	0	0	0
361:	0	0	0	0	0	2	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	1	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	1	0	2	0	0	0	0	0
409:	0	0	0	0	0	1	0	0
417:	0	0	1	0	0	0	0	0
425:	1	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	1	0
449:	0	0	0	1	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	2	0
481:	0	0	0	0	0	1	0	0
489:	2	0	0	0	1	0	0	0
497:	0	1	1	0	0	0	0	1
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	1	0	0
521:	1	1	0	0	1	1	0	0
529:	0	0	0	1	0	1	0	1
537:	0	2	1	0	1	0	0	1
545:	1	0	2	1	3	1	0	0
553:	0	4	1	1	1	1	1	0
561:	3	1	2	0	2	3	2	5
569:	4	1	1	2	1	3	4	4
577:	3	2	2	2	4	1	7	6
585:	2	8	5	8	4	6	5	3
593:	11	7	3	6	6	5	9	7
601:	3	7	10	10	5	5	11	9
609:	11	6	11	14	6	11	11	12
617:	4	7	3	6	5	4	4	0
625:	0	1	1	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	1	1	1	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	1	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	1
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	1	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	1	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/24/2015 5:21:46 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 7/24/2015
Time : 5:21:46 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/24/2015 5:05:56 AM
Alpha_004	21f	ALL	Passed	7/24/2015 5:05:57 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/24/2015 5:05:58 AM
Alpha_011	21f	ALL	Passed	7/24/2015 5:05:59 AM
Alpha_012	21f	ALL	Passed	7/24/2015 5:05:59 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/24/2015 5:06:00 AM
Alpha_015	21f	Peak Energy	Action	7/24/2015 5:06:01 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:02 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:03 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:05 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:07 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:09 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	7/24/2015 5:06:11 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:13 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:15 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:17 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:20 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:23 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:25 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:27 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:30 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:33 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:35 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:38 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:40 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:43 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:47 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:49 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:52 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:55 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:06:58 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:07:01 AM

Review of QA Results - Pulser Check

7/24/2015 5:21:46 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:07:05 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/24/2015 5:07:08 AM

APPROVED BY: _____

APPROVAL DATE: 7/24

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

15-07047
ThISO
Run 1

Work Order	15-07047
Analysis Code	ThISO
Run	1
Date Received	7/9/2015
Lab Deadline	7/31/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/10/15 00:00	1.0000E+00
02	MBL	BLANK		07/10/15 00:00	1.0000E+00
03	DUP	FEEBRISID-3 028-029	38	07/06/15 11:26	1.0000E+00
04	DO	FEEBRISID-3 028-029	38	07/06/15 11:26	1.0000E+00
05	TRG	FEEBRISID-3 041-043	35	07/06/15 13:09	1.1430E+00
06	TRG	DUPLICATE 2	41	07/06/15 13:09	1.0005E+00
07	TRG	FEEBRISID-12 061-062	37	07/06/15 10:07	1.0155E+00
08	TRG	FEEBRISID-12 074-075	37	07/06/15 10:30	1.1920E+00
09	TRG	FEEBRISID-15 077-080	40	07/02/15 15:50	1.3080E+00
10	TRG	FEEBRISID-15 085-086	43	07/02/15 15:22	1.2220E+00
11	TRG	FEEBRISID-11 085-086	54	07/02/15 10:26	1.1740E+00
12	TRG	FEEBRISID-11 087-088	31	07/02/15 10:40	1.1490E+00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-07047
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Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4680	10.5		0.00								
02	MBL	0.2332	5.2		0.00								
03	DUP	0.2334	5.2		0.00								
04	DO	0.2330	5.2		0.00								
05	TRG	0.2326	5.2		0.00								
06	TRG	0.2323	5.2		0.00								
07	TRG	0.2324	5.2		0.00								
08	TRG	0.2323	5.2		0.00								
09	TRG	0.2311	5.2		0.00								
10	TRG	0.2315	5.2		0.00								
11	TRG	0.2316	5.2		0.00								
12	TRG	0.2315	5.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			07/16/15 06:55	JWOLFE				
02	MBL			07/16/15 06:55	JWOLFE				
03	DUP			07/16/15 06:55	JWOLFE				
04	DO	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
05	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
06	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
07	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
08	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
09	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
10	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
11	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				
12	TRG	07/13/15 07:04	KSALLINGS	07/16/15 06:55	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

0215 0215

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-ThISO-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.14E+00	8.34E-01	7.61E-02	4.88E+00	105.29	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	-5.51E-03	3.27E-02	7.74E-02					OK	OK
03	TH-228	DUP	FEEBRISID-3 028-029	pCi/g	3.37E-01	1.55E-01	1.07E-01				INV	OK	
04	TH-228	DO	FEEBRISID-3 028-029	pCi/g	2.19E-01	1.28E-01	1.17E-01					OK	
05	TH-228	TRG	FEEBRISID-3 041-043	pCi/g	1.13E-01	8.11E-02	7.95E-02					OK	
06	TH-228	TRG	DUPLICATE 2	pCi/g	5.80E-02	5.56E-02	5.95E-02					OK	
07	TH-228	TRG	FEEBRISID-12 061-062	pCi/g	5.48E-02	6.07E-02	8.22E-02					OK	
08	TH-228	TRG	FEEBRISID-12 074-075	pCi/g	1.52E-01	8.21E-02	4.95E-02					OK	
09	TH-228	TRG	FEEBRISID-15 077-080	pCi/g	5.91E-02	5.69E-02	7.72E-02					OK	
10	TH-228	TRG	FEEBRISID-15 085-086	pCi/g	3.64E-02	3.97E-02	4.76E-02					OK	
11	TH-228	TRG	FEEBRISID-11 085-086	pCi/g	2.18E-01	1.08E-01	8.32E-02					OK	
12	TH-228	TRG	FEEBRISID-11 087-088	pCi/g	2.62E-01	1.11E-01	4.41E-02					OK	

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-07047
Client: AMO Environmental Decisions

Work Order: 15-07047-ThISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07047	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	07/10/15 00:00	1.00E+00	101.29	0.00	0.00			
02	TH-228	MBL	07/10/15 00:00	1.00E+00	91.56	0.00	0.00			
03	TH-228	DUP	07/06/15 11:26	1.00E+00	108.86	0.00	0.00			
04	TH-228	DO	07/06/15 11:26	1.00E+00	96.27	0.00	0.00			
05	TH-228	TRG	07/06/15 13:09	1.14E+00	109.15	0.00	0.00			
06	TH-228	TRG	07/06/15 13:09	1.00E+00	133.76	0.00	0.00			
07	TH-228	TRG	07/06/15 10:07	1.02E+00	100.01	0.00	0.00			
08	TH-228	TRG	07/06/15 10:30	1.19E+00	117.55	0.00	0.00			
09	TH-228	TRG	07/02/15 15:50	1.31E+00	111.30	0.00	0.00			
10	TH-228	TRG	07/02/15 15:22	1.22E+00	127.83	0.00	0.00			
11	TH-228	TRG	07/02/15 10:26	1.17E+00	101.76	0.00	0.00			
12	TH-228	TRG	07/02/15 10:40	1.15E+00	121.23	0.00	0.00			

Work Order: 15-07047-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07047

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	07/21/15 11:48		A_Spec	Alpha_033	170	3.54 E+02	3.00 E-03	18
02	TH-228	MBL	07/21/15 11:48		A_Spec	Alpha_034	170	-3.40 E-01	2.00 E-03	17.9
03	TH-228	DUP	07/21/15 11:48		A_Spec	Alpha_035	170	2.25 E+01	9.00 E-03	16.5
04	TH-228	DO	07/21/15 11:48		A_Spec	Alpha_036	170	1.41 E+01	1.10 E-02	18.1
05	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_037	170	8.98 E+00	6.00 E-03	17.1
06	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_038	170	4.66 E+00	2.00 E-03	16.2
07	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_039	170	4.00 E+00	0.00 E+00	19.3
08	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_040	170	1.47 E+01	2.00 E-03	18.6
09	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_041	170	5.96 E+00	1.20 E-02	18.7
10	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_042	170	3.66 E+00	2.00 E-03	17.4
11	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_043	170	1.93 E+01	1.00 E-02	20
12	TH-228	TRG	07/21/15 11:48		A_Spec	Alpha_044	170	2.48 E+01	1.00 E-03	18.4

Work Order: 15-07047-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.51E+00	1.01E+00	8.71E-02	5.37E+00	121.07	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	1.35E-01	9.87E-02	9.14E-02					OK	OK
03	TH-230	DUP	FEEBRISID-3 028-029	pCi/g	6.16E+02	1.03E+02	8.86E-02				OK	OK	
04	TH-230	DO	FEEBRISID-3 028-029	pCi/g	5.76E+02	9.75E+01	9.16E-02					OK	
05	TH-230	TRG	FEEBRISID-3 041-043	pCi/g	1.59E+00	3.79E-01	7.02E-02					OK	
06	TH-230	TRG	DUPLICATE 2	pCi/g	7.33E-01	2.18E-01	5.87E-02					OK	
07	TH-230	TRG	FEEBRISID-12 061-062	pCi/g	7.27E-01	2.27E-01	5.64E-02					OK	
08	TH-230	TRG	FEEBRISID-12 074-075	pCi/g	3.45E-01	1.28E-01	4.26E-02					OK	
09	TH-230	TRG	FEEBRISID-15 077-080	pCi/g	1.96E-01	9.30E-02	5.83E-02					OK	
10	TH-230	TRG	FEEBRISID-15 085-086	pCi/g	3.09E+01	4.84E+00	4.68E-02					OK	
11	TH-230	TRG	FEEBRISID-11 085-086	pCi/g	1.19E+02	1.90E+01	6.66E-02					OK	
12	TH-230	TRG	FEEBRISID-11 087-088	pCi/g	1.38E+00	3.16E-01	6.22E-02					OK	

Work Order: 15-07047-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	07/10/15 00:00	1.00E+00	101.29	0.00	0.00			
02	TH-230	MBL	07/10/15 00:00	1.00E+00	91.56	0.00	0.00			
03	TH-230	DUP	07/06/15 11:26	1.00E+00	108.86	0.00	0.00			
04	TH-230	DO	07/06/15 11:26	1.00E+00	96.27	0.00	0.00			
05	TH-230	TRG	07/06/15 13:09	1.14E+00	109.15	0.00	0.00			
06	TH-230	TRG	07/06/15 13:09	1.00E+00	133.76	0.00	0.00			
07	TH-230	TRG	07/06/15 10:07	1.02E+00	100.01	0.00	0.00			
08	TH-230	TRG	07/06/15 10:30	1.19E+00	117.55	0.00	0.00			
09	TH-230	TRG	07/02/15 15:50	1.31E+00	111.30	0.00	0.00			
10	TH-230	TRG	07/02/15 15:22	1.22E+00	127.83	0.00	0.00			
11	TH-230	TRG	07/02/15 10:26	1.17E+00	101.76	0.00	0.00			
12	TH-230	TRG	07/02/15 10:40	1.15E+00	121.23	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	07/21/15 11:48		A_Spec	Alpha_033	170	4.48 E+02	0.00 E+00	18
02	TH-230	MBL	07/21/15 11:48		A_Spec	Alpha_034	170	8.32 E+00	4.00 E-03	17.9
03	TH-230	DUP	07/21/15 11:48		A_Spec	Alpha_035	170	4.16 E+04	5.00 E-03	16.5
04	TH-230	DO	07/21/15 11:48		A_Spec	Alpha_036	170	3.77 E+04	0.00 E+00	18.1
05	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_037	170	1.27 E+02	4.00 E-03	17.1
06	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_038	170	5.97 E+01	2.00 E-03	16.2
07	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_039	170	5.38 E+01	1.00 E-03	19.3
08	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_040	170	3.38 E+01	1.00 E-03	18.6
09	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_041	170	2.01 E+01	5.00 E-03	18.7
10	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_042	170	3.15 E+03	2.00 E-03	17.4
11	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_043	170	1.07 E+04	5.00 E-03	20
12	TH-230	TRG	07/21/15 11:48		A_Spec	Alpha_044	170	1.33 E+02	0.00 E+00	18.4

07/22/15

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	4.78E+00	7.87E-01	6.93E-02	4.88E+00	97.84	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	2.41E-02	4.60E-02	8.49E-02					OK	OK
03	TH-232	DUP	FEEBRISID-3 028-029	pCi/g	3.54E+00	7.41E-01	7.75E-02				OK	OK	
04	TH-232	DO	FEEBRISID-3 028-029	pCi/g	4.07E+00	8.43E-01	6.36E-02					OK	
05	TH-232	TRG	FEEBRISID-3 041-043	pCi/g	2.11E-01	1.09E-01	7.45E-02					OK	
06	TH-232	TRG	DUPLICATE 2	pCi/g	9.81E-02	7.36E-02	7.35E-02					OK	
07	TH-232	TRG	FEEBRISID-12 061-062	pCi/g	1.60E-01	9.53E-02	5.63E-02					OK	
08	TH-232	TRG	FEEBRISID-12 074-075	pCi/g	1.66E-01	8.65E-02	5.75E-02					OK	
09	TH-232	TRG	FEEBRISID-15 077-080	pCi/g	4.30E-02	5.63E-02	9.16E-02					OK	
10	TH-232	TRG	FEEBRISID-15 085-086	pCi/g	3.12E-01	1.20E-01	6.15E-02					OK	
11	TH-232	TRG	FEEBRISID-11 085-086	pCi/g	1.35E+00	3.22E-01	5.31E-02					OK	
12	TH-232	TRG	FEEBRISID-11 087-088	pCi/g	2.57E-01	1.09E-01	4.32E-02					OK	

Work Order: 15-07047-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	07/10/15 00:00	1.00E+00	101.29	0.00	0.00			
02	TH-232	MBL	07/10/15 00:00	1.00E+00	91.56	0.00	0.00			
03	TH-232	DUP	07/06/15 11:26	1.00E+00	108.86	0.00	0.00			
04	TH-232	DO	07/06/15 11:26	1.00E+00	96.27	0.00	0.00			
05	TH-232	TRG	07/06/15 13:09	1.14E+00	109.15	0.00	0.00			
06	TH-232	TRG	07/06/15 13:09	1.00E+00	133.76	0.00	0.00			
07	TH-232	TRG	07/06/15 10:07	1.02E+00	100.01	0.00	0.00			
08	TH-232	TRG	07/06/15 10:30	1.19E+00	117.55	0.00	0.00			
09	TH-232	TRG	07/02/15 15:50	1.31E+00	111.30	0.00	0.00			
10	TH-232	TRG	07/02/15 15:22	1.22E+00	127.83	0.00	0.00			
11	TH-232	TRG	07/02/15 10:26	1.17E+00	101.76	0.00	0.00			
12	TH-232	TRG	07/02/15 10:40	1.15E+00	121.23	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	07/21/15 11:48		A_Spec	Alpha_033	170	3.30 E+02	2.00 E-03	18
02	TH-232	MBL	07/21/15 11:48		A_Spec	Alpha_034	170	1.49 E+00	3.00 E-03	17.9
03	TH-232	DUP	07/21/15 11:48		A_Spec	Alpha_035	170	2.39 E+02	3.00 E-03	16.5
04	TH-232	DO	07/21/15 11:48		A_Spec	Alpha_036	170	2.67 E+02	1.00 E-03	18.1
05	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_037	170	1.70 E+01	0.00 E+00	17.1
06	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_038	170	8.00 E+00	0.00 E+00	16.2
07	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_039	170	1.18 E+01	1.00 E-03	19.3
08	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_040	170	1.63 E+01	4.00 E-03	18.6
09	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_041	170	4.43 E+00	2.10 E-02	18.7
10	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_042	170	3.20 E+01	6.00 E-03	17.4
11	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_043	170	1.22 E+02	2.00 E-03	20
12	TH-232	TRG	07/21/15 11:48		A_Spec	Alpha_044	170	2.48 E+01	1.00 E-03	18.4

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	5.51E-02	6.67E-02	9.36E-02					OK	OK
03	TH-227	DUP	FEEBRISID-3 028-029	pCi/g	4.15E+00	8.49E-01	7.96E-02				NA	OK	
04	TH-227	DO	FEEBRISID-3 028-029	pCi/g	4.10E+00	8.53E-01	1.03E-01					OK	
05	TH-227	TRG	FEEBRISID-3 041-043	pCi/g	2.12E-02	3.61E-02	6.10E-02					OK	
06	TH-227	TRG	DUPLICATE 2	pCi/g	-8.56E-03	2.61E-02	7.10E-02					OK	
07	TH-227	TRG	FEEBRISID-12 061-062	pCi/g	7.61E-02	6.81E-02	7.27E-02					OK	
08	TH-227	TRG	FEEBRISID-12 074-075	pCi/g	-2.09E-04	2.22E-02	6.59E-02					OK	
09	TH-227	TRG	FEEBRISID-15 077-080	pCi/g	6.59E-03	2.01E-02	4.77E-02					OK	
10	TH-227	TRG	FEEBRISID-15 085-086	pCi/g	3.18E-01	1.21E-01	4.80E-02					OK	
11	TH-227	TRG	FEEBRISID-11 085-086	pCi/g	9.50E-01	2.55E-01	6.43E-02					OK	
12	TH-227	TRG	FEEBRISID-11 087-088	pCi/g	3.01E-02	3.66E-02	4.44E-02					OK	

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07047
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	07/10/15 00:00	1.00E+00	91.56	0.00	0.00			
03	TH-227	DUP	07/06/15 11:26	1.00E+00	108.86	0.00	0.00			
04	TH-227	DO	07/06/15 11:26	1.00E+00	96.27	0.00	0.00			
05	TH-227	TRG	07/06/15 13:09	1.14E+00	109.15	0.00	0.00			
06	TH-227	TRG	07/06/15 13:09	1.00E+00	133.76	0.00	0.00			
07	TH-227	TRG	07/06/15 10:07	1.02E+00	100.01	0.00	0.00			
08	TH-227	TRG	07/06/15 10:30	1.19E+00	117.55	0.00	0.00			
09	TH-227	TRG	07/02/15 15:50	1.31E+00	111.30	0.00	0.00			
10	TH-227	TRG	07/02/15 15:22	1.22E+00	127.83	0.00	0.00			
11	TH-227	TRG	07/02/15 10:26	1.17E+00	101.76	0.00	0.00			
12	TH-227	TRG	07/02/15 10:40	1.15E+00	121.23	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07047-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07047

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
02	TH-227	MBL	07/21/15 11:48		A_Spec	Alpha_034	170	3.32 E+00	4.00 E-03	17.9
03	TH-227	DUP	07/21/15 11:48		A_Spec	Alpha_035	170	2.73 E+02	3.00 E-03	16.5
04	TH-227	DO	07/21/15 11:48		A_Spec	Alpha_036	170	2.62 E+02	7.00 E-03	18.1
05	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_037	170	1.66 E+00	2.00 E-03	17.1
06	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_038	170	-6.80 E-01	4.00 E-03	16.2
07	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_039	170	5.49 E+00	3.00 E-03	19.3
08	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_040	170	-2.00 E-02	6.00 E-03	18.6
09	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_041	170	6.60 E-01	2.00 E-03	18.7
10	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_042	170	3.17 E+01	2.00 E-03	17.4
11	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_043	170	8.33 E+01	4.00 E-03	20
12	TH-227	TRG	07/21/15 11:48		A_Spec	Alpha_044	170	2.83 E+00	1.00 E-03	18.4

Count Room Report
Client: AMO Environmental Decisio

15-07047-ThISO-1 (pCi/g) in SO
Tracer ID: Th-18a

33-44

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/10/15 00:00	1.0000	0.4680	10.5113		0.00		
02	MBL	BLANK	07/10/15 00:00	1.0000	0.2332	5.2377		0.00		
03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	1.0000	0.2334	5.2422		0.00		
04	DO	FEEBRISID-3 028-029	07/06/15 11:26	1.0000	0.2330	5.2332		0.00		
05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	1.1430	0.2326	5.2242		0.00		
06	TRG	DUPLICATE 2	07/06/15 13:09	1.0005	0.2323	5.2175		0.00		
07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	1.0155	0.2324	5.2197		0.00		
08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	1.1920	0.2323	5.2175		0.00		
09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	1.3080	0.2311	5.1905		0.00		
10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	1.2220	0.2315	5.1995		0.00		
11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	1.1740	0.2316	5.2017		0.00		
12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	1.1490	0.2315	5.1995		0.00		

00223

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-07047	1	ThISO	7/16/2015 6:46	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Th-228	Th-8b	103.560	7/16/2015	0.100	0.1047				4.88	0.176	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	7/16/2015	0.500	0.5072				5.37	0.145	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	7/16/2015	0.100	0.1047				4.88	0.176	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Th-229	Th-18a	22.460	7/16/2015	0.4680	0.2200
02	Th-229	Th-18a	22.460	7/16/2015	0.2332	0.2200
03	Th-229	Th-18a	22.460	7/16/2015	0.2334	0.2200
04	Th-229	Th-18a	22.460	7/16/2015	0.2330	0.2200
05	Th-229	Th-18a	22.460	7/16/2015	0.2326	0.2200
06	Th-229	Th-18a	22.460	7/16/2015	0.2323	0.2200
07	Th-229	Th-18a	22.460	7/16/2015	0.2324	0.2200
08	Th-229	Th-18a	22.460	7/16/2015	0.2323	0.2200
09	Th-229	Th-18a	22.460	7/16/2015	0.2311	0.2200
10	Th-229	Th-18a	22.460	7/16/2015	0.2315	0.2200
11	Th-229	Th-18a	22.460	7/16/2015	0.2316	0.2200
12	Th-229	Th-18a	22.460	7/16/2015	0.2315	0.2200

Balance Printer Tapes

Tracer

0.4680 g
0.2332 g
0.2334 g
0.2330 g
0.2326 g
0.2323 g
0.2324 g
0.2323 g
0.2311 g
0.2315 g
0.2316 g
0.2315 g

LCS

0.5072 g
0.1047 g

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/17/2015 4:17 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07047	1	ThISO	grams	7/31/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRISID-3 028-029	DUP		1	10.00	1.00E-01	1.0000E+01	1.0000E+00				
04	FEEBRISID-3 028-029	DO		1	10.00	1.00E-01	1.0000E+01	1.0000E+00				
05	FEEBRISID-3 041-043	TRG		1	13.12	7.62E-02	1.5000E+01	1.1430E+00				
06	DUPLICATE 2	TRG		1	14.99	6.67E-02	1.5000E+01	1.0005E+00				
07	FEEBRISID-12 061-062	TRG		1	14.77	6.77E-02	1.5000E+01	1.0155E+00				
08	FEEBRISID-12 074-075	TRG		1	16.78	5.96E-02	2.0000E+01	1.1920E+00				
09	FEEBRISID-15 077-080	TRG		1	11.47	8.72E-02	1.5000E+01	1.3080E+00				
10	FEEBRISID-15 085-086	TRG		1	16.37	6.11E-02	2.0000E+01	1.2220E+00				
11	FEEBRISID-11 085-086	TRG		1	17.04	5.87E-02	2.0000E+01	1.1740E+00				
12	FEEBRISID-11 087-088	TRG		1	13.05	7.66E-02	1.5000E+01	1.1490E+00				

Comments	

Technician: JWolfe Date: 7/17/15

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 03 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10**	ml	from the original sample and diluted it to	**100**	ml	0.1000
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1**
Dilution Factor	**10**

Diluted by: JW Date: 7/17/15

: 00226

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10**	ml	from the original sample and diluted it to	**100**	ml	0.1000
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1**
Dilution Factor	**10**

Diluted by: JW

Date: 7/17/15

: 00227

EBERLINE SERVICES

	Internal Work Order	15-07047
	Fraction	**> 05 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.62**	ml	from the original sample and diluted it to	**100**	ml	0.0762
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0762**
Dilution Factor	**13.12335958**

Diluted by: JW Date: 7/17/15

037205

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 06 <
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.67**	ml	from the original sample and diluted it to	**100**	ml	0.0667
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0667**
Dilution Factor	**14.99250375**

Diluted by: JW Date: 7/17/15

: 00229

EBERLINE SERVICES

	Internal Work Order	15-07047
	Fraction	**> 07 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.77**	ml	from the original sample and diluted it to	**100**	ml	0.0677
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0677**
Dilution Factor	**14.77104874**

Diluted by: JW Date: 7/17/15

05299

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 08 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.96**	ml	from the original sample and diluted it to	**100**	ml	0.0596
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0596**
Dilution Factor	**16.77852349**

Diluted by: JW

Date: 7/17/15

00231

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07047
	Fraction	**> 09 <**
	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.72**	ml	from the original sample and diluted it to	**100**	ml	0.0872
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0872**
Dilution Factor	**11.46788991**

Diluted by: JW Date: 7/17/15

225202

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 10 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**6.11**	ml	from the original sample and diluted it to	**100**	ml	0.0611
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0611**
Dilution Factor	**16.36661211**

Diluted by: JW Date: 7/17/15

00220

EBERLINE SERVICES	Internal Work Order	15-07047
	Fraction	> 11 <
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.87**	ml	from the original sample and diluted it to	**100**	ml	0.0587
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0587**
Dilution Factor	**17.03577513**

Diluted by: JW Date: 7/17/15

00234

EBERLINE SERVICES

Internal Work Order	15-07047
Fraction	**> 12 <**
Analysis Code	**ThISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Worksheet

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.66**	ml	from the original sample and diluted it to	**100**	ml	0.0766
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0766**
Dilution Factor	**13.05483029**

D0234A
Eyr 08/04/15

Diluted by: JW Date: 7/17/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/13/2015 7:04 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07047	7/31/2015	7/12/2015	7/13/2015	7/14/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRISID-3 028-029	29.0400	1078.7600	807.4600	1049.7200	778.4200	25.84%	74.16%	0.0000	0.0000	
05	FEEBRISID-3 041-043	28.7800	885.2600	593.0300	856.4800	564.2500	34.12%	65.88%	0.0000	0.0000	
06	DUPLICATE 2	28.7900	1029.5600	556.5800	1000.7700	527.7900	47.26%	52.74%	0.0000	0.0000	
07	FEEBRISID-12 061-062	28.7600	974.2600	414.3300	945.5000	385.5700	59.22%	40.78%	0.0000	0.0000	
08	FEEBRISID-12 074-075	28.8400	992.3800	817.9800	963.5400	789.1400	18.10%	81.90%	0.0000	0.0000	
09	FEEBRISID-15 077-080	28.8100	915.2600	685.2600	886.4500	656.4500	25.95%	74.05%	0.0000	0.0000	
10	FEEBRISID-15 085-086	28.8900	1096.0600	875.9200	1067.1700	847.0300	20.63%	79.37%	0.0000	0.0000	
11	FEEBRISID-11 085-086	14.7400	1264.2600	1171.2800	1249.5200	1156.5400	7.44%	92.56%	0.0000	0.0000	
12	FEEBRISID-11 087-088	29.4900	1979.8000	1828.2000	1950.3100	1798.7100	7.77%	92.23%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

9325

Technician: Kerry Sallings Date: **Analysis: Rough Prep Logbook**

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 7/13/2015 7:57 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-07047	grams	7/31/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRISID-3 028-029	111.2700	121.2700		10.0000		
05	FEEBRISID-3 041-043	112.2600	119.8800		7.6200		
06	DUPLICATE 2	98.3700	105.0400		6.6700		
07	FEEBRISID-12 061-062	112.7400	119.5100		6.7700		
08	FEEBRISID-12 074-075	111.8100	117.7700		5.9600		
09	FEEBRISID-15 077-080	104.5900	113.3100		8.7200		
10	FEEBRISID-15 085-086	115.0900	121.2000		6.1100		
11	FEEBRISID-11 085-086	106.9900	112.8600		5.8700		
12	FEEBRISID-11 087-088	113.3300	120.9900		7.6600		

Comments

Technician: Kenny Sallings Date: 7/13/15

Analysis: ThISO

Apex-Alpha™

KD 7/21/15

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_033
Chamber Serial Number: 04026479A
Detector Serial Number: 91132
Env. Background: System Bkgd 123485
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/21/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:16 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.468 mL
Effective Efficiency: 0.1828 +/- 0.0116
Counting Efficiency: 0.1805 +/- 0.0032 on 10/25/2014 2:26:39 PM
Chem. Recovery Factor: 1.0129 +/- 0.0667

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 0.978390 +/- 0.087308
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.776	15.32	51.36	0.68	0.00E+000	3.0
TH-228		5.358	354.49	10.42	0.51	0.00E+000	7.1
TH-229	T	4.862	326.66	10.85	0.34	0.00E+000	4.6
TH-230		4.622	448.00	9.27	0.00	0.00E+000	4.5
TH-232		3.949	329.66	10.80	0.34	0.00E+000	4.9

T = Tracer Peak used for Effective Efficiency

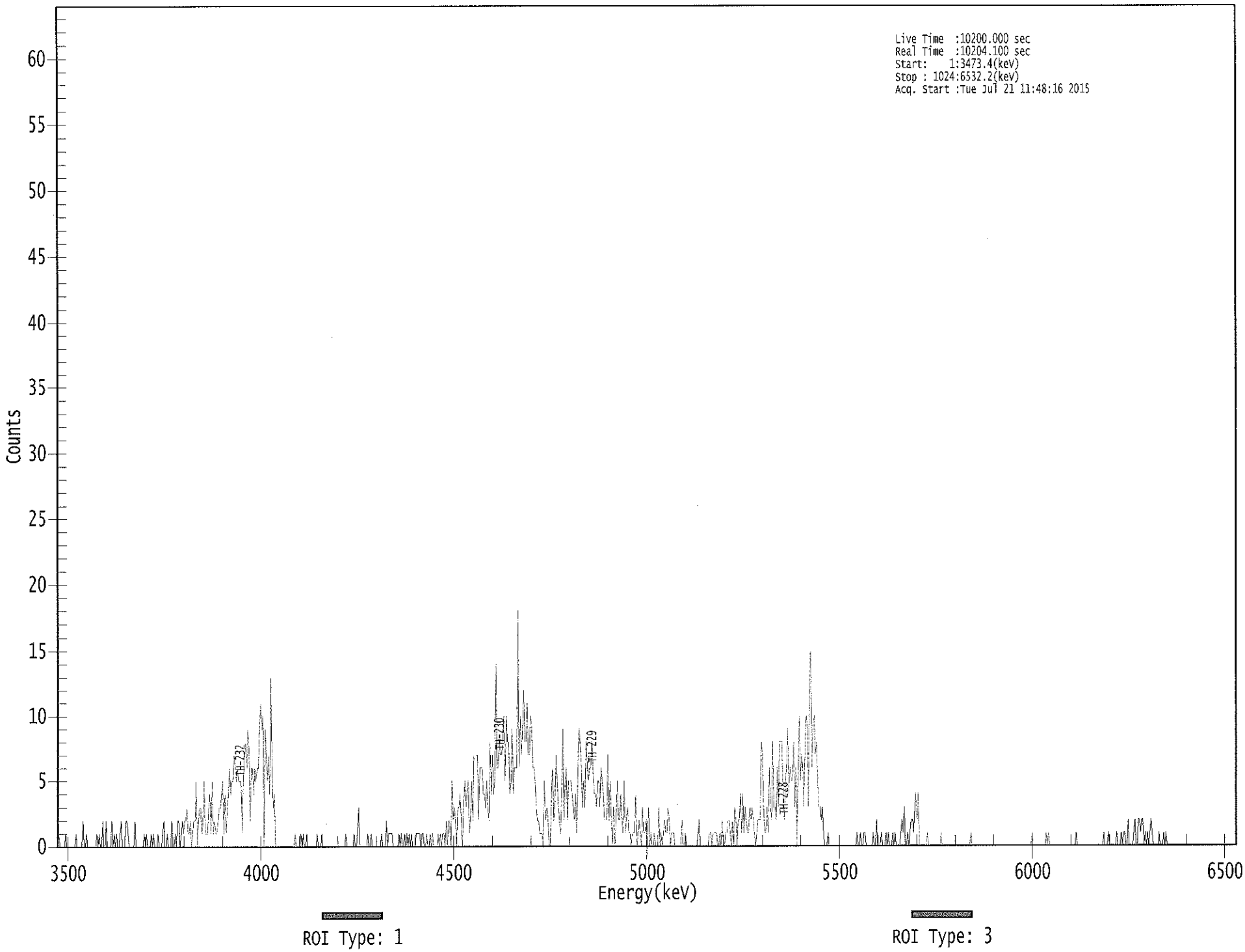
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.972	5850.00*	2.28E-001 +/- 1.20E-001	8.39E-002 +/- 1.04E-002
TH-228	0.991	5400.00*	5.14E+000 +/- 8.34E-001	7.61E-002 +/- 9.47E-003
TH-229	0.999	4872.00*	4.76E+000 +/- 5.92E-001	6.96E-002 +/- 8.66E-003
TH-230	0.987	4672.00*	6.51E+000 +/- 1.01E+000	8.71E-002 +/- 1.08E-002
TH-232	0.988	3997.00*	4.78E+000 +/- 7.87E-001	6.93E-002 +/- 8.62E-003

AG 7/22/15

00237

0000123625.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	1	0	0	0	0	0	1
9:	0	0	0	0	0	0	0	0
17:	1	0	0	0	0	0	2	0
25:	0	1	0	0	0	0	0	0
33:	0	0	1	0	1	0	0	2
41:	0	0	2	0	0	0	0	2
49:	0	1	0	1	0	0	1	2
57:	0	0	0	2	2	1	0	0
65:	0	0	0	2	0	0	0	0
73:	0	0	0	1	0	1	0	0
81:	0	1	0	1	0	0	0	1
89:	0	0	0	1	2	0	0	1
97:	0	0	0	2	0	0	1	0
105:	2	2	0	1	2	1	2	2
113:	3	1	1	2	0	1	2	2
121:	5	0	2	3	3	1	2	5
129:	1	1	1	3	4	1	5	1
137:	2	1	1	2	3	3	4	5
145:	1	4	1	3	4	6	4	5
153:	5	7	6	5	6	5	5	5
161:	1	5	7	8	6	9	7	2
169:	6	6	4	6	5	6	6	9
177:	11	9	10	0	9	7	5	7
185:	4	13	6	3	4	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	1	0
209:	0	0	0	1	0	1	0	0
217:	1	0	0	0	0	0	0	0
225:	0	1	0	0	0	1	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	1	0	0	1	3	0	0
265:	0	0	0	0	0	1	0	0
273:	1	0	0	0	0	0	0	0
281:	0	1	0	0	0	2	0	1
289:	1	1	1	0	0	0	0	0
297:	1	0	1	0	0	1	0	1
305:	0	1	0	1	0	0	0	1
313:	1	1	1	0	1	1	0	0
321:	1	0	0	1	0	1	0	0
329:	0	0	1	0	1	0	1	1
337:	0	2	0	2	2	0	5	2
345:	3	2	0	3	3	4	2	0
353:	3	5	3	4	5	1	2	5
361:	2	7	7	7	7	2	6	6

369:	6	4	4	3	5	3	2	8

Sample Title: 01

Channel								
377:	4	7	4	5	14	6	6	8
385:	7	7	8	10	5	10	8	8
393:	4	5	9	4	6	6	6	18
401:	6	10	7	9	12	8	8	11
409:	7	7	10	9	6	6	5	3
417:	2	2	1	1	1	0	5	2
425:	3	2	0	0	4	6	2	3
433:	7	5	3	2	1	4	9	2
441:	5	6	2	5	5	5	4	3
449:	2	4	1	5	9	8	6	3
457:	5	3	8	6	5	6	6	8
465:	6	4	4	3	5	5	3	6
473:	5	4	2	2	2	7	2	5
481:	2	0	3	0	2	5	2	2
489:	4	2	1	5	1	2	3	1
497:	1	0	1	1	1	4	0	1
505:	2	1	0	3	1	1	2	0
513:	3	0	1	0	0	1	0	0
521:	0	3	0	1	0	1	2	1
529:	1	3	2	0	1	1	1	0
537:	0	0	0	0	0	2	0	0
545:	1	0	0	0	0	0	0	0
553:	0	0	0	1	2	0	0	0
561:	0	0	0	0	0	1	1	0
569:	1	1	1	1	0	0	1	0
577:	2	0	0	1	1	2	2	1
585:	0	2	0	3	2	0	2	2
593:	4	1	4	1	3	2	1	1
601:	3	2	3	2	1	0	1	2
609:	2	2	8	7	3	1	1	3
617:	1	6	3	2	8	3	3	2
625:	6	3	8	8	8	4	2	5
633:	6	9	4	6	5	5	8	3
641:	6	0	6	10	5	7	6	3
649:	8	10	9	3	13	15	6	9
657:	10	7	8	5	3	3	2	3
665:	1	0	0	0	1	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	1	0	0
697:	1	0	0	1	1	0	0	0
705:	0	0	0	1	0	0	2	0
713:	0	0	1	0	0	0	1	0
721:	1	0	0	0	1	0	1	0
729:	0	0	0	1	2	1	3	0
737:	0	1	0	1	2	2	1	3
745:	4	2	4	0	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	0	0	0	0	0	0	1	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	1	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	1	0	0
849:	0	0	0	0	0	0	0	0
857:	0	1	0	1	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	1	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	1	0	0	0	1
913:	0	0	0	0	0	0	1	0
921:	0	0	1	0	1	1	0	0
929:	2	0	0	0	0	1	2	0
937:	0	2	2	1	2	2	0	1
945:	0	1	0	1	2	1	0	0
953:	0	0	0	1	0	0	0	1
961:	0	1	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 7/22/15

Apex-Alpha™

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 123486
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/21/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:17 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1638 +/- 0.0145
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 0.9156 +/- 0.0826

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.814	3.32	119.77	0.68	0.00E+000	3.0
TH-228		5.297	-0.34	592.90	0.34	0.00E+000	0.0
TH-229	T	4.866	145.83	16.24	0.17	0.00E+000	7.5
TH-230		4.622	8.32	71.13	0.68	0.00E+000	3.0
TH-232		3.944	1.49	190.02	0.51	0.00E+000	3.0

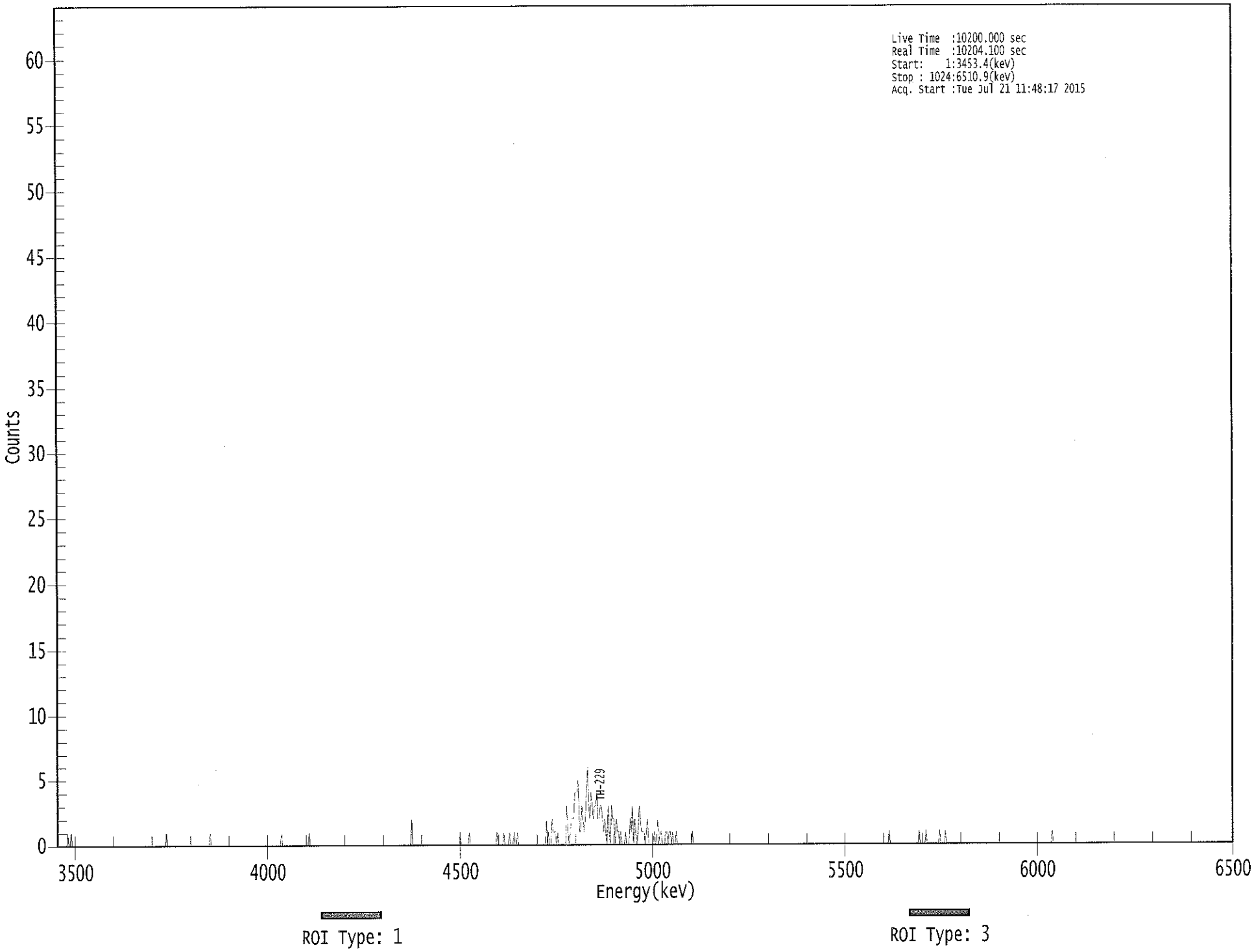
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.993	5850.00*	5.51E-002 +/- 6.67E-002	9.36E-002 +/- 1.62E-002
TH-228	0.947	5400.00*	-5.51E-003 +/- 3.27E-002	7.74E-002 +/- 1.34E-002
TH-229	1.000	4872.00*	2.37E+000 +/- 4.11E-001	6.78E-002 +/- 1.18E-002
TH-230	0.987	4672.00*	1.35E-001 +/- 9.87E-002	9.14E-002 +/- 1.59E-002
TH-232	0.985	3997.00*	2.41E-002 +/- 4.60E-002	8.49E-002 +/- 1.47E-002

AG 7/22/15

0000123626.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	1	0	0	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	1
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	1	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	1	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	1	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	2	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	0	0	0	0	0	0	1	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	1	0
385:	0	0	0	0	1	0	0	0
393:	0	1	0	0	0	1	0	0
401:	1	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	2	0	1	0	0	2	1
433:	1	1	0	1	0	0	0	0
441:	0	0	0	3	1	0	1	2
449:	2	2	4	4	4	5	1	1
457:	3	2	1	2	4	6	3	2
465:	4	3	2	3	3	4	2	2
473:	3	3	2	1	2	1	0	3
481:	1	0	3	2	2	0	2	1
489:	1	0	1	0	0	0	1	0
497:	0	0	2	1	3	0	2	1
505:	0	1	3	2	1	1	1	0
513:	1	2	0	0	0	0	0	1
521:	0	0	2	0	1	1	0	0
529:	0	1	1	0	1	1	0	1
537:	0	0	1	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	1	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	1	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	1	0	0
753:	0	0	0	1	0	0	0	0
761:	0	0	0	0	0	0	0	1
769:	0	0	0	0	1	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	1	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KLO 7/21/15

Sample Description: FEEBRISID-3 028-029-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_035
Chamber Serial Number: 04026477A
Detector Serial Number: 58771
Env. Background: System Bkgd 123487
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:19 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1793 +/- 0.0152
Counting Efficiency: 0.1647 +/- 0.0029 on 10/25/2014 2:34:10 PM
Chem. Recovery Factor: 1.0886 +/- 0.0945

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.888	273.49	11.86	0.51	0.00E+000	4.3
TH-228		5.338	22.47	42.96	1.53	0.00E+000	4.5
TH-229	T	4.866	159.83	15.51	0.17	0.00E+000	9.2
TH-230		4.630	41589.15	0.96	0.85	0.00E+000	57.5
TH-232		3.957	239.49	12.68	0.51	0.00E+000	3.4

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.993	5850.00*	4.15E+000 +/- 8.49E-001	7.96E-002 +/- 1.33E-002
TH-228	0.980	5400.00*	3.37E-001 +/- 1.55E-001	1.07E-001 +/- 1.78E-002
TH-229	1.000	4872.00*	2.37E+000 +/- 3.95E-001	6.20E-002 +/- 1.03E-002
TH-230	0.991	4672.00*	6.16E+002 +/- 1.03E+002	8.86E-002 +/- 1.48E-002
TH-232	0.992	3997.00*	3.54E+000 +/- 7.41E-001	7.75E-002 +/- 1.29E-002

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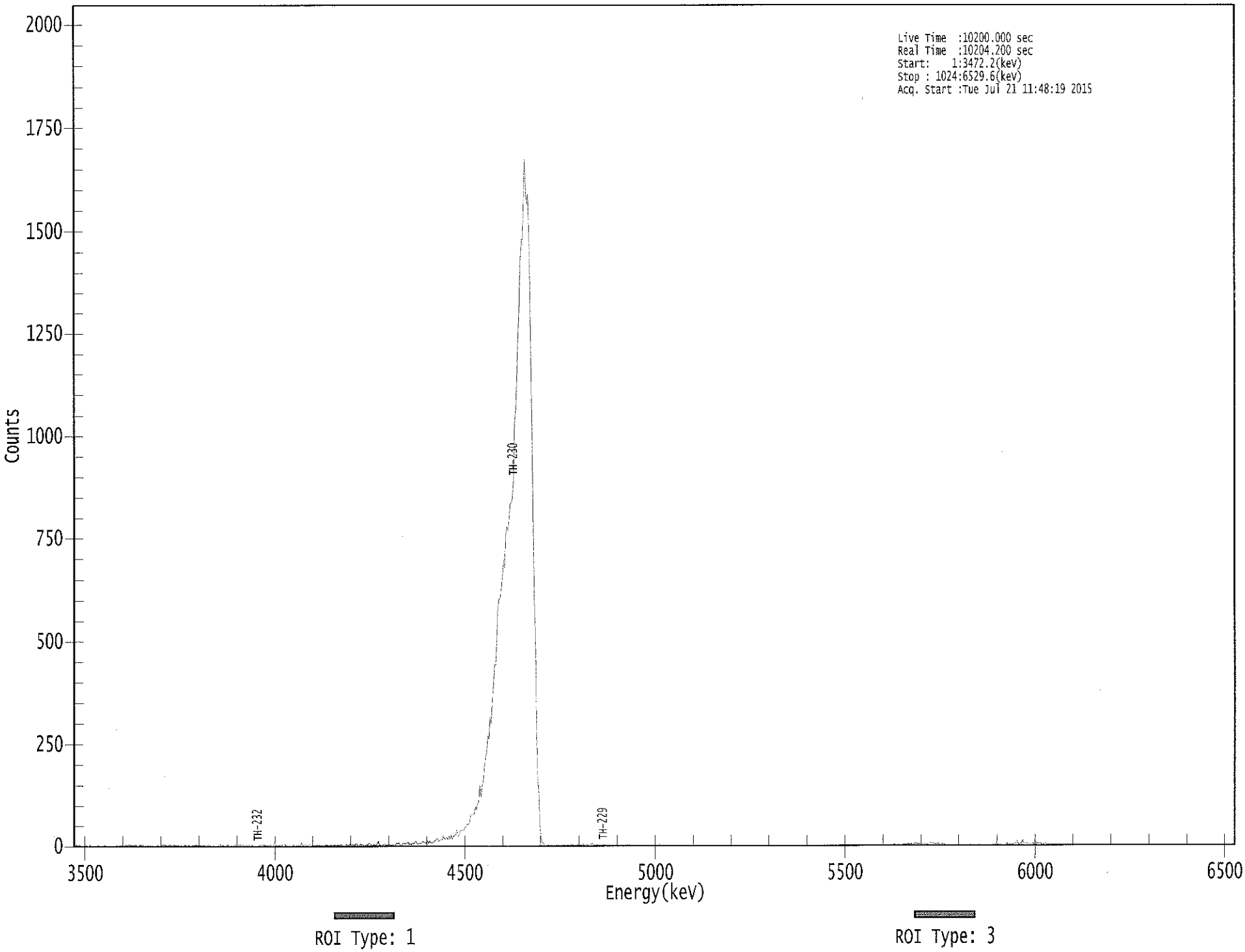
0000123618.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	2	1	4	2	2	4	2	0
9:	1	2	2	2	2	1	4	0
17:	2	1	0	1	1	3	2	1
25:	2	1	2	3	1	2	0	0
33:	2	0	1	2	0	2	3	0
41:	3	1	3	1	0	4	3	1
49:	4	4	2	2	3	1	4	2
57:	0	0	5	1	4	2	1	2
65:	1	3	1	2	1	2	0	1
73:	1	2	3	1	1	3	3	4
81:	3	2	1	3	5	1	2	1
89:	5	1	3	2	2	1	2	1
97:	1	4	3	1	0	4	0	1
105:	2	2	2	4	2	3	2	2
113:	2	2	2	3	3	0	3	2
121:	2	0	3	0	1	1	1	3
129:	5	3	2	2	2	0	2	5
137:	1	0	3	0	1	4	3	2
145:	3	3	4	3	3	3	2	5
153:	2	4	3	4	3	2	1	1
161:	1	0	1	2	3	3	3	4
169:	2	2	1	3	3	3	1	4
177:	1	2	2	3	2	2	3	4
185:	2	5	3	2	0	2	1	1
193:	2	4	2	0	3	2	2	0
201:	9	2	2	6	1	2	3	4
209:	5	2	2	2	2	1	4	2
217:	3	1	2	2	0	4	3	3
225:	1	2	3	2	3	3	4	1
233:	3	3	1	5	3	1	1	1
241:	6	2	3	7	3	4	4	2
249:	7	6	2	0	6	5	4	2
257:	1	4	2	7	8	5	4	1
265:	5	3	2	7	12	3	3	0
273:	3	6	5	2	3	5	3	3
281:	2	5	1	2	8	6	9	4
289:	1	4	8	7	6	8	10	4
297:	7	4	8	6	10	12	6	6
305:	7	7	8	11	10	9	8	13
313:	7	13	9	8	8	13	12	18
321:	18	13	14	16	15	25	18	17
329:	22	17	26	18	27	17	24	27
337:	28	41	24	26	38	39	39	39
345:	46	48	56	52	58	79	79	77
353:	78	97	89	105	109	151	122	147
361:	160	188	219	227	270	263	311	301

369:	356	395	442	444	508	580	603	606

Sample Title: 03

Channel								
377:	628	652	695	678	758	777	769	796
385:	834	837	849	892	1033	1067	1139	1233
393:	1307	1428	1480	1470	1592	1673	1586	1567
401:	1590	1443	1248	1050	857	598	512	274
409:	159	140	51	22	8	8	1	0
417:	1	2	2	0	0	1	1	1
425:	1	0	0	2	0	3	1	2
433:	2	1	2	2	2	1	4	1
441:	2	1	4	3	1	2	2	1
449:	5	1	3	4	1	1	4	5
457:	6	2	2	1	3	2	2	1
465:	1	2	3	3	2	1	1	1
473:	2	1	2	1	2	0	1	0
481:	2	2	2	1	0	2	2	3
489:	1	3	1	1	1	2	2	1
497:	1	2	1	0	1	0	0	0
505:	0	0	1	0	1	1	1	0
513:	0	1	0	4	2	0	2	0
521:	0	1	1	1	1	1	2	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	1	1	1	1	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	1	0	0
601:	0	0	0	0	1	0	0	0
609:	0	0	0	0	0	1	0	0
617:	0	0	0	1	1	0	0	0
625:	0	1	0	0	0	0	1	0
633:	0	0	1	1	1	0	0	1
641:	0	1	1	1	1	1	0	0
649:	0	0	2	1	0	0	0	0
657:	0	1	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	1	0	0	0	0	1
689:	0	1	1	0	0	1	0	0
697:	0	0	1	0	0	0	1	0
705:	0	0	1	0	2	0	1	1
713:	0	0	1	0	0	0	0	1
721:	0	2	3	0	0	1	2	1
729:	1	1	2	2	2	2	5	2
737:	3	5	1	2	5	6	3	3
745:	4	4	4	4	3	3	3	2
753:	3	5	7	6	6	4	3	5
761:	4	5	1	2	4	3	2	2
769:	1	1	0	0	1	2	0	2
777:	0	0	0	0	0	1	0	1
785:	1	0	0	0	0	3	0	0
793:	0	1	1	0	1	2	0	0

801:	0	0	0	0	0	0	1	1

Sample Title: 03

Channel								
809:	0	1	1	2	0	2	3	0
817:	3	0	0	0	1	6	1	2
825:	2	3	1	4	3	5	10	4
833:	1	5	4	13	4	4	4	5
841:	3	3	3	4	5	6	4	7
849:	4	5	6	4	2	4	2	4
857:	5	1	2	0	1	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	1	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	1	0	0	0	0	0

Apex-Alpha™

Sample Description: FEEBRISID-3 028-029
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 123488
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:21 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1738 +/- 0.0150
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 0.9627 +/- 0.0848

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.892	261.81	12.15	1.19	0.00E+000	16.5
TH-228		5.342	14.13	56.03	1.87	0.00E+000	4.5
TH-229	T	4.868	154.66	15.78	0.34	0.00E+000	4.7
TH-230		4.628	37702.00	1.01	0.00	0.00E+000	81.7
TH-232		3.958	266.83	12.00	0.17	0.00E+000	5.4

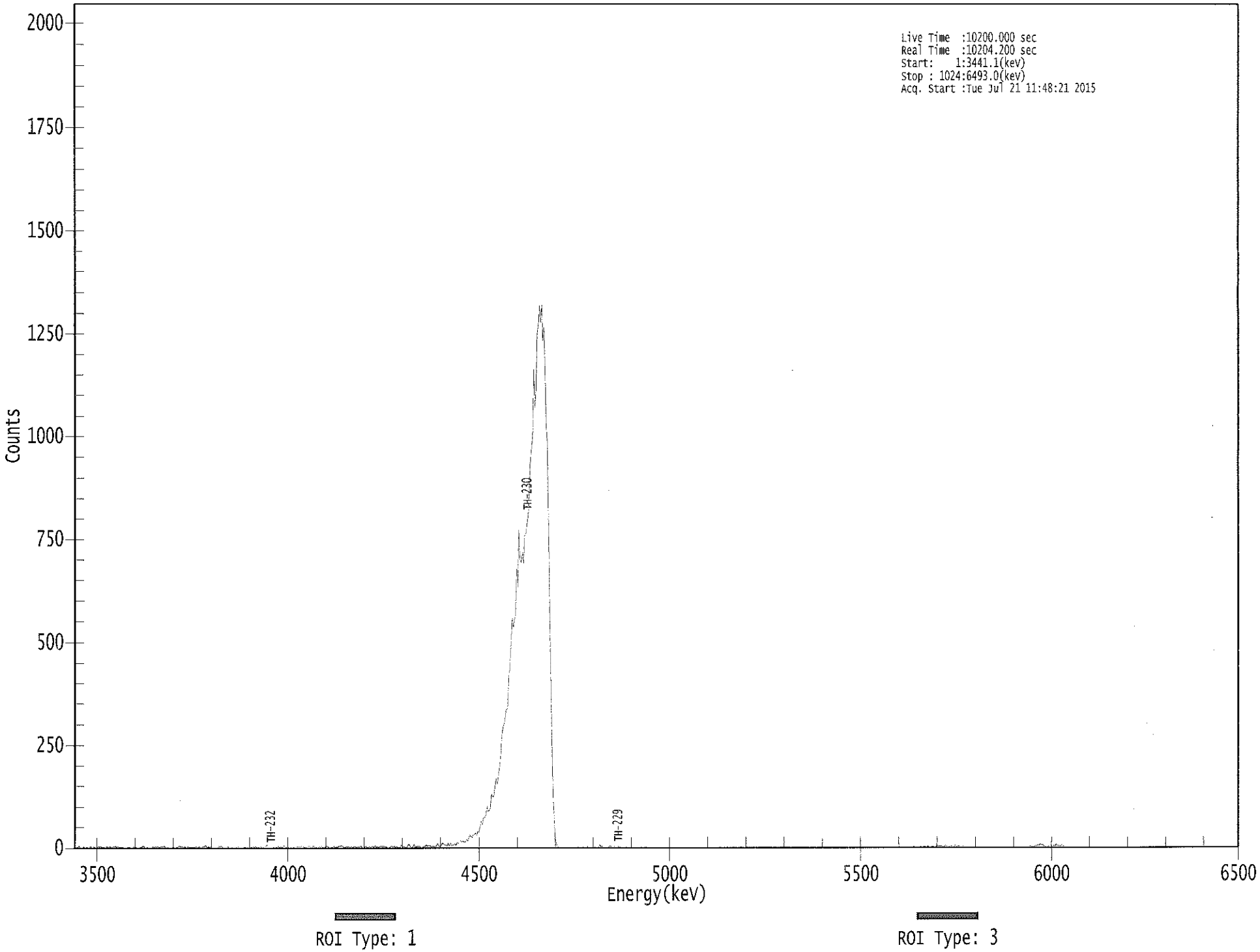
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.991	5850.00*	4.10E+000 +/- 8.53E-001	1.03E-001 +/- 1.74E-002
TH-228	0.983	5400.00*	2.19E-001 +/- 1.28E-001	1.17E-001 +/- 1.98E-002
TH-229	1.000	4872.00*	2.37E+000 +/- 4.01E-001	7.32E-002 +/- 1.24E-002
TH-230	0.990	4672.00*	5.76E+002 +/- 9.75E+001	9.16E-002 +/- 1.55E-002
TH-232	0.992	3997.00*	4.07E+000 +/- 8.43E-001	6.36E-002 +/- 1.08E-002

AG
7/22/15

0000123619.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	2	0	3	2	6	1	1	0
9:	4	0	2	3	1	1	5	2
17:	0	4	1	0	1	4	3	4
25:	2	2	3	0	5	3	1	5
33:	2	1	4	3	6	2	5	2
41:	2	3	2	2	0	2	1	3
49:	2	2	1	1	4	2	3	1
57:	2	1	3	2	6	5	0	1
65:	3	1	2	1	0	5	2	4
73:	3	5	3	2	5	3	5	6
81:	1	2	2	2	1	2	1	4
89:	1	2	3	3	6	5	5	5
97:	0	5	1	2	5	2	2	2
105:	3	2	3	4	1	2	4	1
113:	2	5	3	8	5	1	4	1
121:	4	2	1	1	1	3	1	6
129:	2	7	2	1	0	0	5	3
137:	0	1	2	3	3	4	4	0
145:	4	2	1	2	1	2	2	3
153:	2	1	3	2	2	4	1	5
161:	1	3	2	0	5	0	2	4
169:	4	8	3	1	1	1	5	1
177:	5	2	2	5	1	5	2	2
185:	7	3	2	3	2	0	2	0
193:	1	3	3	4	3	3	3	5
201:	4	4	1	3	2	5	4	5
209:	1	4	6	2	3	1	2	5
217:	2	5	1	3	2	4	5	3
225:	1	1	3	2	6	1	3	2
233:	5	4	6	6	4	1	2	4
241:	3	3	2	4	2	3	4	3
249:	1	4	0	5	5	0	1	3
257:	5	1	2	4	1	4	4	2
265:	7	2	4	1	4	4	4	4
273:	5	3	3	1	1	2	4	4
281:	3	6	1	4	2	2	2	8
289:	3	3	3	1	2	9	9	3
297:	1	3	9	5	2	6	4	5
305:	2	0	3	4	5	8	5	7
313:	7	4	3	6	3	1	8	11
321:	4	4	6	12	10	8	8	6
329:	12	6	13	6	8	8	11	6
337:	14	11	15	18	15	17	15	15
345:	21	17	23	32	28	25	33	34
353:	36	31	41	38	53	65	58	74
361:	74	81	101	90	92	98	130	124

369:	126	150	167	155	174	194	219	270

Sample Title: 04

Channel								
377:	293	301	318	338	336	420	435	503
385:	559	535	553	568	677	633	772	701
393:	694	717	691	759	764	784	809	870
401:	930	971	995	1164	1070	1112	1248	1273
409:	1319	1279	1321	1232	1267	1160	1021	984
417:	776	583	422	260	137	75	22	11
425:	5	1	0	0	1	0	1	1
433:	0	0	0	0	0	1	0	0
441:	0	1	3	0	2	1	4	1
449:	0	0	4	1	1	0	2	2
457:	1	3	2	3	1	8	4	4
465:	3	1	2	2	1	2	6	4
473:	6	3	4	1	1	4	3	3
481:	1	2	0	3	2	3	2	1
489:	0	1	1	0	2	0	0	1
497:	0	0	3	0	1	3	3	2
505:	1	1	0	1	1	2	0	0
513:	1	0	2	0	0	0	1	2
521:	1	0	0	1	2	0	1	2
529:	2	2	1	0	0	0	0	0
537:	2	0	0	0	0	0	1	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	1	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	1	0	0
585:	0	1	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	1
601:	0	0	0	0	0	1	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	1	0	0	0	0	0
641:	1	0	0	0	0	1	0	1
649:	0	1	0	0	0	0	0	1
657:	2	0	1	0	0	1	2	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	1	0	1	0
681:	0	1	0	0	0	0	1	0
689:	1	0	0	0	0	0	0	0
697:	1	0	0	0	0	0	1	0
705:	0	0	0	0	0	1	0	1
713:	0	1	0	1	0	0	0	0
721:	0	1	1	0	2	0	0	0
729:	0	0	1	1	1	1	2	1
737:	0	3	1	1	1	0	0	3
745:	1	2	2	3	0	4	1	0
753:	1	3	3	0	1	4	5	3
761:	5	4	3	2	3	7	3	2
769:	3	3	4	1	2	7	2	3
777:	5	3	1	1	5	2	0	2
785:	0	0	1	1	1	0	0	1
793:	0	0	0	1	0	0	0	0

801:	1	1	1	1	0	0	0	1

Sample Title: 04

Channel								
809:	1	0	2	1	1	0	0	0
817:	0	1	1	1	0	2	1	0
825:	1	1	2	1	2	0	1	0
833:	0	2	1	1	2	0	3	4
841:	2	3	1	4	5	4	7	6
849:	9	7	8	3	3	2	0	4
857:	5	8	2	0	5	5	8	5
865:	5	4	3	8	3	4	2	0
873:	0	0	1	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	1	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	1	0
945:	0	0	0	0	0	0	0	0
953:	0	1	0	0	0	1	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	1	1	0	0	0	1
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	1	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/24/15

Sample Description: FEEBRISID-3 041-043
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 123489
Reagent Blank: <not performed>

Sample Size: 1.143E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:23 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1865 +/- 0.0156
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 1.0915 +/- 0.0934

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.753	1.66	169.38	0.34	0.00E+000	3.0
TH-228		5.393	8.98	69.62	1.02	0.00E+000	3.0
TH-229	T	4.868	165.66	15.25	0.34	0.00E+000	11.0
TH-230		4.636	127.32	17.42	0.68	0.00E+000	28.8
TH-232		3.973	17.00	48.92	0.00	0.00E+000	3.0

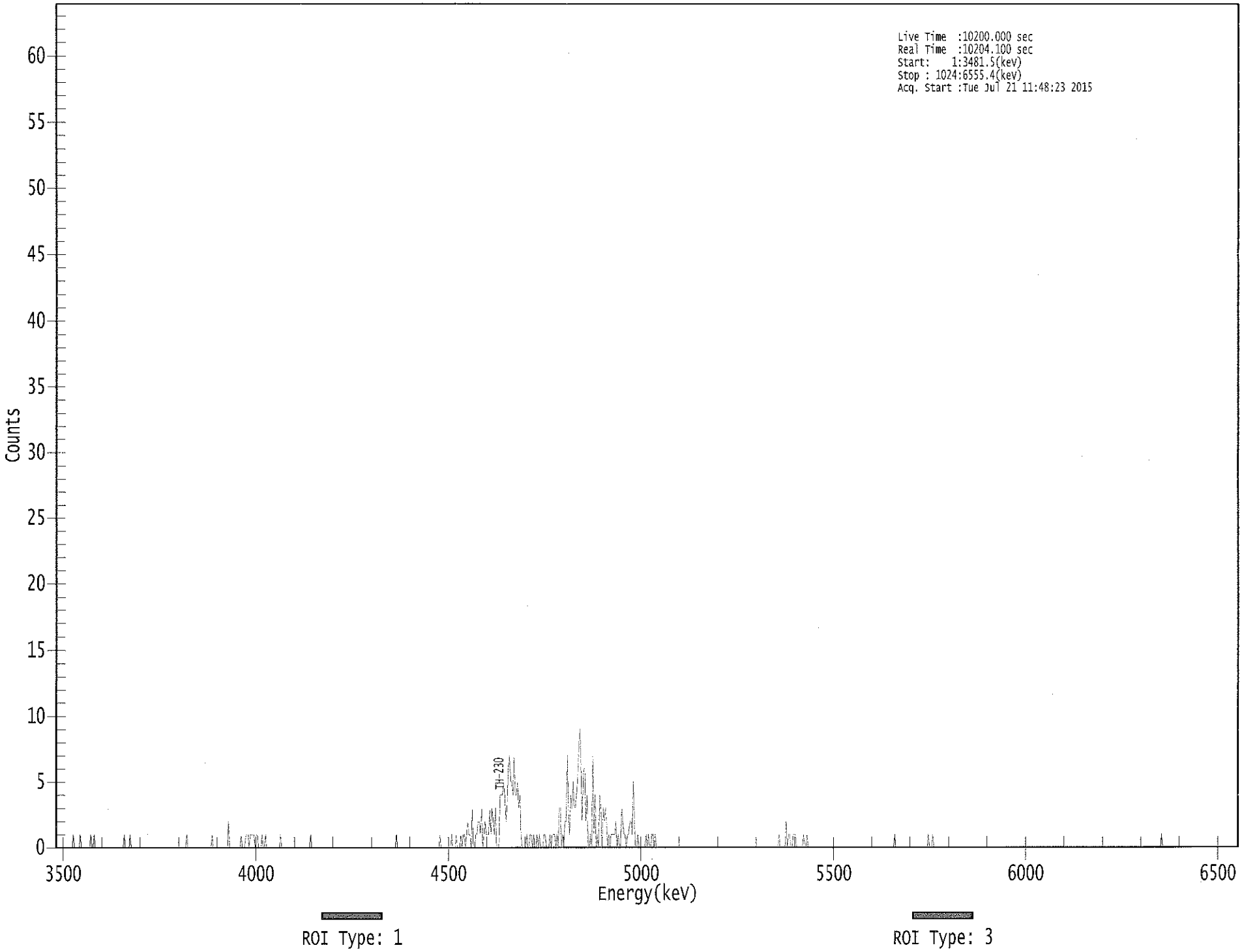
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.952	5850.00*	2.12E-002 +/- 3.61E-002	6.10E-002 +/- 1.00E-002
TH-228	1.000	5400.00*	1.13E-001 +/- 8.11E-002	7.95E-002 +/- 1.31E-002
TH-229	1.000	4872.00*	2.07E+000 +/- 3.40E-001	5.97E-002 +/- 9.80E-003
TH-230	0.993	4672.00*	1.59E+000 +/- 3.79E-001	7.02E-002 +/- 1.15E-002
TH-232	0.997	3997.00*	2.11E-001 +/- 1.09E-001	7.45E-002 +/- 1.22E-002

AG 7/22/15

0000123617.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	1
17:	0	0	0	0	0	1	0	0
25:	0	0	0	0	0	0	1	0
33:	0	1	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	1	0	0	0	0
65:	1	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	1	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	1
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	2	0	0
153:	0	0	0	0	0	0	0	0
161:	1	0	0	0	1	1	1	0
169:	1	1	1	1	0	1	1	0
177:	0	0	1	0	0	1	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	1	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	1	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	1	0	0	0
337:	0	0	0	0	0	0	1	0
345:	0	0	1	0	0	0	1	0
353:	1	1	0	1	2	1	1	0
361:	3	0	0	1	1	2	2	1

369:	3	0	1	2	1	1	1	3

Sample Title: 05

Channel								
377:	1	3	2	1	3	0	0	0
385:	4	4	4	5	4	2	3	6
393:	7	5	5	4	7	4	4	5
401:	3	4	1	0	0	0	0	1
409:	0	0	1	1	0	1	0	0
417:	1	0	1	0	0	0	1	1
425:	0	0	0	1	0	1	1	1
433:	0	1	0	3	3	0	1	0
441:	2	2	7	3	1	4	3	5
449:	3	3	4	5	8	9	5	2
457:	6	6	2	4	0	0	1	0
465:	7	1	4	0	1	0	4	3
473:	0	3	2	3	2	0	1	0
481:	1	1	1	1	2	0	1	0
489:	0	3	2	1	1	0	1	1
497:	2	2	1	5	2	0	0	1
505:	0	0	0	0	0	0	1	0
513:	1	0	0	1	1	0	1	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	1	0	0	0	0	0	2
633:	0	1	1	0	0	1	1	1
641:	0	0	0	0	0	0	1	0
649:	0	1	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	1	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	1	0	0	0	1	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	1	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

ICB 7/22/15

Apex-Alpha™

Sample Description: DUPLICATE 2
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 123490
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:24 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.2161 +/- 0.0170
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.3376 +/- 0.1079

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.871	-0.68	304.44	0.68	0.00E+000	0.0
TH-228		5.417	4.66	94.59	0.34	0.00E+000	3.0
TH-229	T	4.890	191.66	14.17	0.34	0.00E+000	5.0
TH-230		4.642	59.66	25.46	0.34	0.00E+000	3.0
TH-232		3.982	8.00	73.50	0.00	0.00E+000	3.0

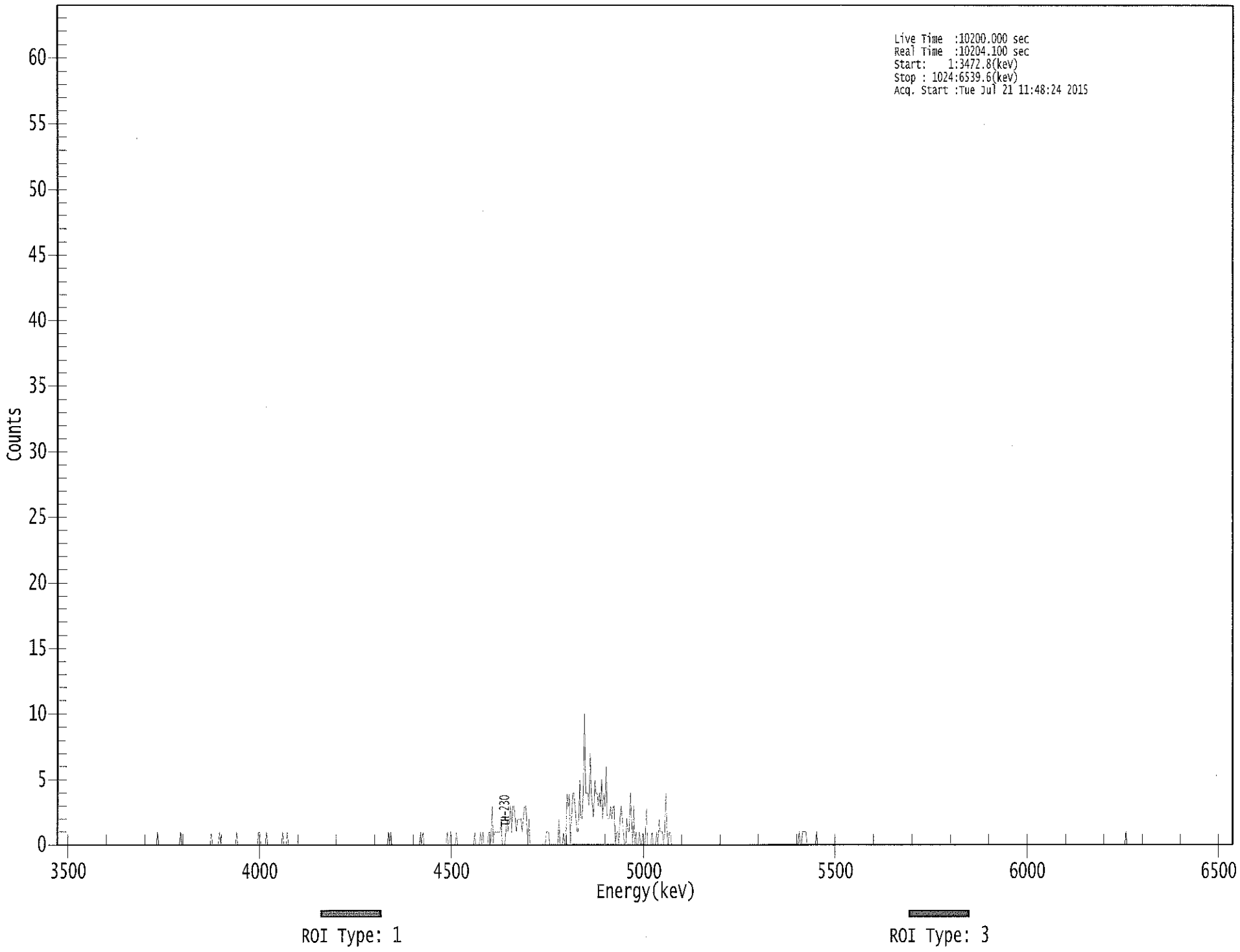
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.998	5850.00*	-8.56E-003 +/- 2.61E-002	7.10E-002 +/- 1.09E-002
TH-228	0.998	5400.00*	5.80E-002 +/- 5.56E-002	5.95E-002 +/- 9.18E-003
TH-229	0.998	4872.00*	2.36E+000 +/- 3.64E-001	5.89E-002 +/- 9.08E-003
TH-230	0.995	4672.00*	7.33E-001 +/- 2.18E-001	5.87E-002 +/- 9.05E-003
TH-232	0.999	3997.00*	9.81E-002 +/- 7.36E-002	7.35E-002 +/- 1.13E-002

AG 7/22/15

0000123616.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	1
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	1	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	1	0
137:	0	0	0	0	0	1	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	1	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	1
177:	1	0	0	0	0	0	1	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	1	0	0	0
201:	1	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	1	0	1	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	1	0	0	1	0
345:	0	0	0	1	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	1	0	0	0	0

369:	1	0	1	0	0	0	0	1

Sample Title: 06

Channel								
377:	1	0	3	0	1	1	1	1
385:	1	1	2	0	0	0	1	2
393:	1	2	3	1	3	3	2	1
401:	2	2	2	2	1	2	3	3
409:	2	0	2	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	1	1	1	0	0	0	0
433:	0	0	0	0	2	0	0	0
441:	1	0	0	4	3	4	0	2
449:	4	4	3	2	1	1	5	2
457:	2	4	10	4	4	4	3	7
465:	4	3	2	5	4	4	3	4
473:	3	5	2	4	3	6	2	2
481:	2	3	2	3	3	0	1	1
489:	0	2	3	2	1	0	0	2
497:	1	1	4	2	0	3	0	1
505:	0	0	1	0	0	1	0	0
513:	3	0	0	0	0	1	0	0
521:	0	1	0	2	1	1	1	0
529:	1	4	1	0	1	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	1	0	0
649:	1	1	1	1	0	0	0	0
657:	0	0	0	0	1	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	1	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/21/15

Sample Description: FEEBRISID-12 061-062
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 123491
Reagent Blank: <not performed>

Sample Size: 1.015E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/6/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:27 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1934 +/- 0.0160
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 1.0001 +/- 0.0843

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.827	5.49	88.08	0.51	0.00E+000	3.0
TH-228		5.323	4.00	109.57	0.00	0.00E+000	3.0
TH-229	T	4.820	171.66	14.98	0.34	0.00E+000	3.8
TH-230		4.624	53.83	26.76	0.17	0.00E+000	3.8
TH-232		3.913	11.83	57.46	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.997	5850.00*	7.61E-002 +/- 6.81E-002	7.27E-002 +/- 1.17E-002
TH-228	0.970	5400.00*	5.48E-002 +/- 6.07E-002	8.22E-002 +/- 1.33E-002
TH-229	0.986	4872.00*	2.33E+000 +/- 3.76E-001	6.48E-002 +/- 1.05E-002
TH-230	0.988	4672.00*	7.27E-001 +/- 2.27E-001	5.64E-002 +/- 9.11E-003
TH-232	0.964	3997.00*	1.60E-001 +/- 9.53E-002	5.63E-002 +/- 9.10E-003

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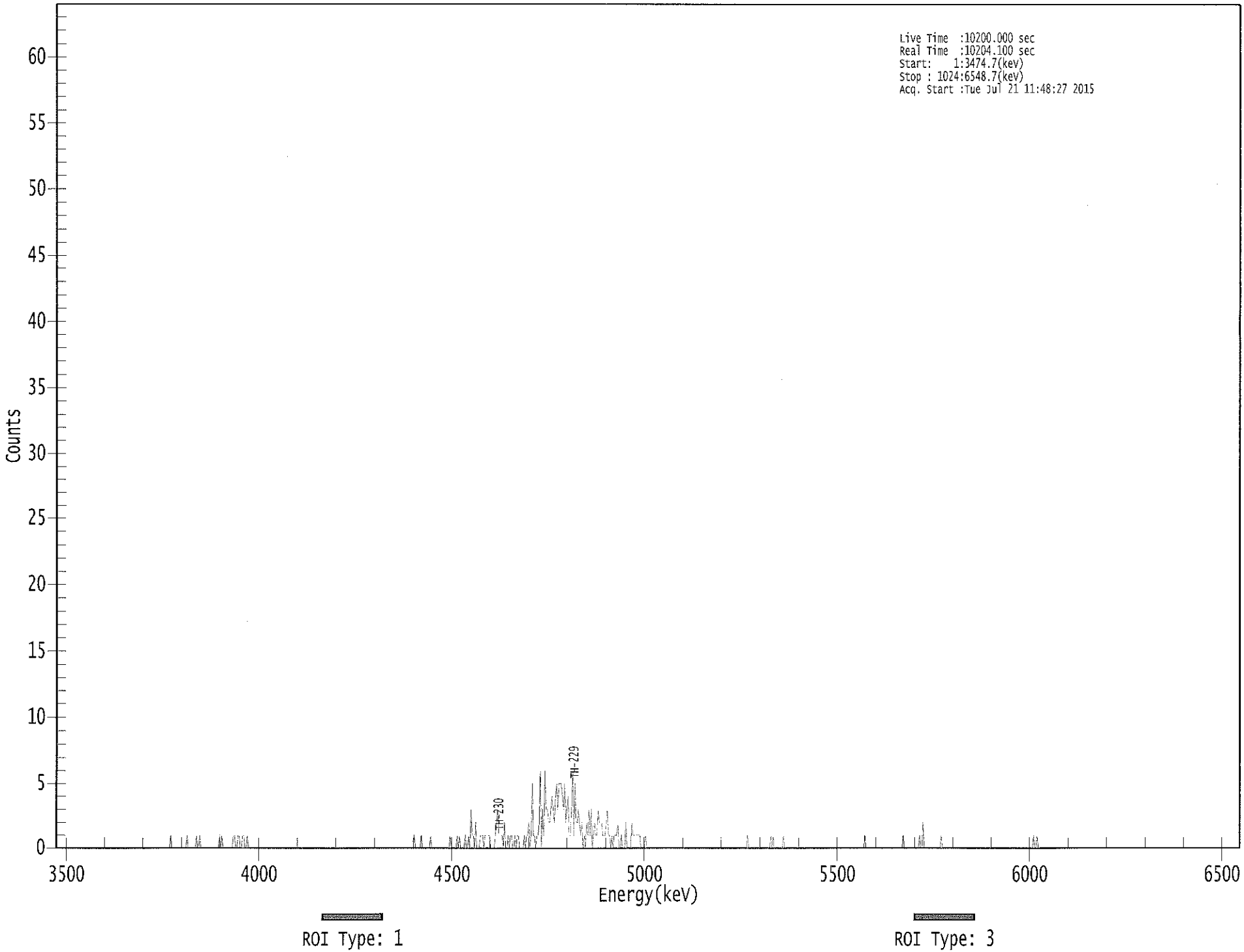
0000123627.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	1	0	0	0	0	0	0
121:	0	1	0	0	1	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	1	0	1
145:	0	0	0	0	0	0	0	0
153:	0	1	1	0	0	1	1	0
161:	0	1	1	0	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	1	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	1	0	0	0
345:	0	0	1	0	1	0	0	0
353:	0	1	0	0	1	0	3	1
361:	1	0	2	0	0	0	1	1

369:	1	0	1	1	1	1	1	0

Sample Title: 07

Channel								
377:	0	0	0	1	2	3	1	1
385:	1	1	0	2	0	0	1	0
393:	1	1	0	0	1	0	1	1
401:	0	0	0	0	1	0	1	1
409:	2	0	1	5	1	1	0	1
417:	1	2	6	0	3	1	6	3
425:	3	2	2	3	4	3	2	4
433:	5	3	5	5	5	4	3	5
441:	2	3	4	1	1	3	6	1
449:	5	2	2	3	2	1	2	0
457:	1	0	2	1	3	1	3	0
465:	1	2	1	1	3	2	2	2
473:	1	1	1	2	3	1	1	0
481:	1	0	1	1	1	2	0	0
489:	1	0	0	0	2	0	0	0
497:	0	2	1	1	1	1	1	1
505:	1	0	0	0	0	1	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	1	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	1	0	1	0	0	0	0
625:	0	0	0	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	1	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	1	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	1	0	0	2	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	1	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	1	0	0	1
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	FEEBRISID-12 074-075
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification:	1507047A-TH
Sample Identification:	08
Sample Geometry:	Shelf 2
Procedure Description:	Th iso
Detector Name:	Alpha_040
Chamber Serial Number:	06027396B
Detector Serial Number:	91135
Env. Background:	System Bkgd 123492
Reagent Blank:	<not performed>
Sample Size:	1.192E+000 +/- 0.000E+000 gram
Sample Date/Time:	7/6/2015 6:38:24 AM
Acquisition Date/Time:	7/21/2015 11:48:29 AM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.1 minutes
Tracer Certificate:	Th229_S_TH-18A
Tracer Quantity:	0.232 mL
Effective Efficiency:	0.2181 +/- 0.0171
Counting Efficiency:	0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor:	1.1755 +/- 0.0944
Peak Match Tolerance:	0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		6.009	-0.02	10615.	1.02	0.00E+000	3.0
TH-228		5.360	14.66	51.88	0.34	0.00E+000	3.0
TH-229	T	4.866	193.49	14.11	0.51	0.00E+000	4.4
TH-230		4.634	33.83	33.80	0.17	0.00E+000	3.0
TH-232		3.924	16.32	49.69	0.68	0.00E+000	3.0

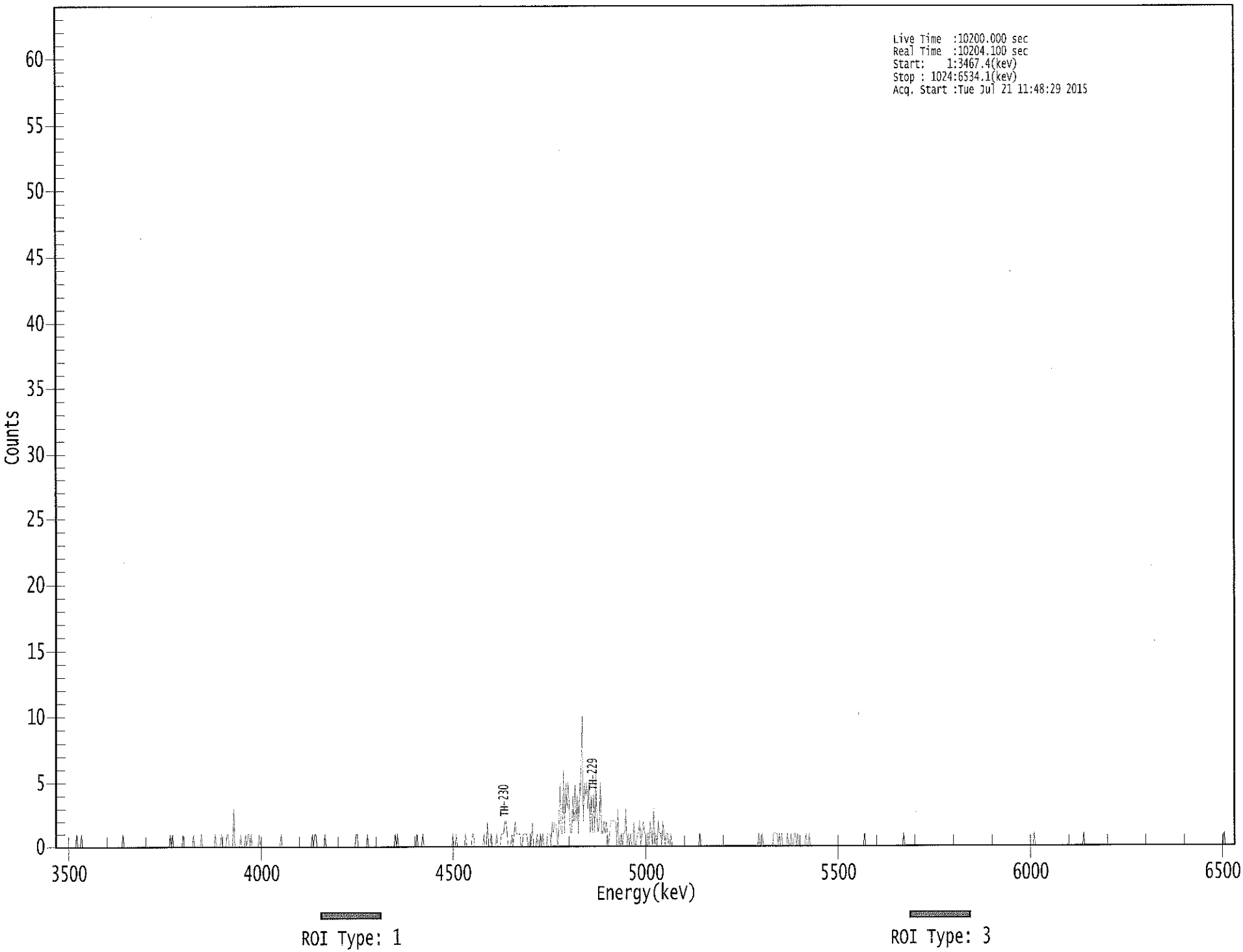
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.876	5850.00*	-2.09E-004 +/- 2.22E-002	6.59E-002 +/- 1.01E-002
TH-228	0.992	5400.00*	1.52E-001 +/- 8.21E-002	4.95E-002 +/- 7.60E-003
TH-229	1.000	4872.00*	1.98E+000 +/- 3.04E-001	5.37E-002 +/- 8.26E-003
TH-230	0.992	4672.00*	3.45E-001 +/- 1.28E-001	4.26E-002 +/- 6.55E-003
TH-232	0.973	3997.00*	1.66E-001 +/- 8.65E-002	5.75E-002 +/- 8.83E-003

AG
7/22/15

0000123628.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	1	0	0	0	1	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	1	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	1	0	0
105:	0	0	0	0	0	0	1	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	0	0	0	1	0
129:	0	0	0	0	0	0	0	0
137:	0	0	1	0	0	0	0	1
145:	0	0	0	0	1	1	0	0
153:	0	0	3	0	0	0	0	0
161:	1	0	0	0	1	0	1	1
169:	0	1	0	0	0	0	0	0
177:	1	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	1	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	1	0
225:	1	1	0	0	0	0	0	0
233:	0	1	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	1	1	0	0
265:	0	0	0	0	0	0	1	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	1	0
297:	1	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	1	0	0	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	1	0	0	1	0	0	0	0
353:	0	0	0	1	0	0	0	0
361:	0	1	1	0	0	0	0	0

369:	0	0	0	1	0	0	2	0

Sample Title: 08

Channel								
377:	0	1	0	0	0	0	1	0
385:	0	0	1	1	1	2	2	1
393:	0	0	0	1	0	1	2	1
401:	1	1	1	0	0	1	1	1
409:	1	0	0	1	0	2	0	0
417:	0	1	0	0	1	0	1	0
425:	0	0	1	1	1	0	2	1
433:	2	2	1	0	2	5	1	1
441:	6	1	5	3	5	3	1	1
449:	4	2	5	2	4	1	5	4
457:	10	2	5	4	5	3	5	1
465:	4	1	4	1	6	2	1	2
473:	5	1	1	2	1	2	1	0
481:	1	2	2	2	2	2	0	3
489:	0	0	1	0	1	1	3	0
497:	1	0	1	0	0	2	0	0
505:	1	1	2	0	1	2	1	1
513:	0	1	0	2	1	0	3	0
521:	1	0	2	1	1	0	2	1
529:	0	1	1	0	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	1	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	1	0	0	1	0	0	0
617:	0	0	0	0	0	0	1	1
625:	1	1	0	1	0	1	0	0
633:	0	0	1	0	0	1	0	0
641:	1	1	0	1	0	0	0	0
649:	0	0	1	0	0	1	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	1	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	1
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	1	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	1	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	1	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/21/15

Sample Description: FEEBRISID-15 077-080
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 123493
Reagent Blank: <not performed>

Sample Size: 1.308E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/2/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:31 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.2085 +/- 0.0167
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 1.1130 +/- 0.0913

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.734	0.66	305.43	0.34	0.00E+000	3.0
TH-228		5.398	5.96	95.01	2.04	0.00E+000	3.0
TH-229	T	4.883	183.98	14.50	1.02	0.00E+000	4.9
TH-230		4.636	20.15	44.73	0.85	0.00E+000	3.0
TH-232		3.993	4.43	129.80	3.57	0.00E+000	4.5

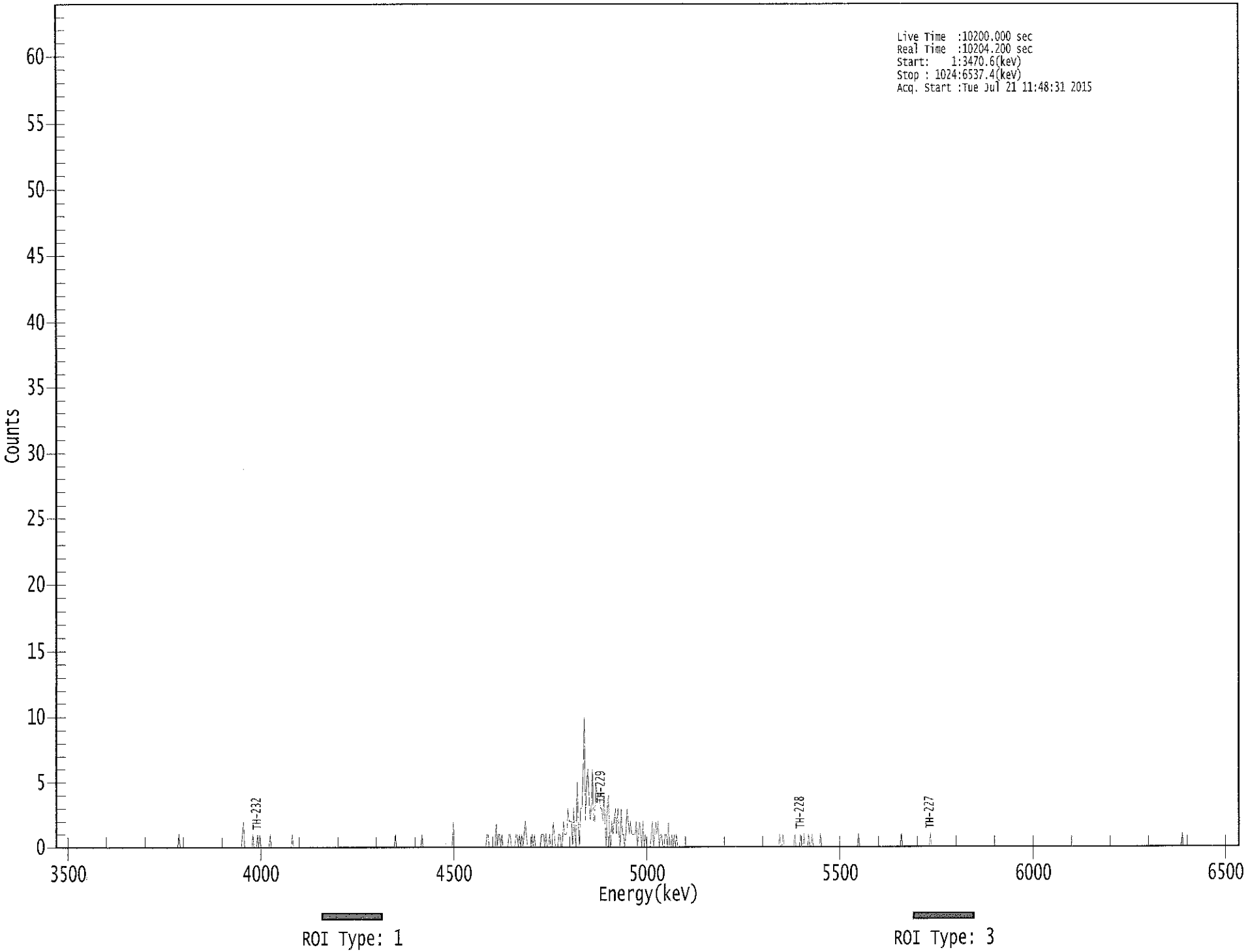
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.932	5850.00*	6.59E-003 +/- 2.01E-002	4.77E-002 +/- 7.50E-003
TH-228	1.000	5400.00*	5.91E-002 +/- 5.69E-002	7.72E-002 +/- 1.21E-002
TH-229	0.999	4872.00*	1.80E+000 +/- 2.82E-001	6.15E-002 +/- 9.67E-003
TH-230	0.993	4672.00*	1.96E-001 +/- 9.30E-002	5.83E-002 +/- 9.16E-003
TH-232	1.000	3997.00*	4.30E-002 +/- 5.63E-002	9.16E-002 +/- 1.44E-002

AG 7/22/15

0000123630.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	1	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	1	2	0	0	0	0	0
169:	0	0	1	0	0	0	1	0
177:	1	0	0	0	0	0	0	0
185:	0	1	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	1	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	1	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	2
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	1	1	0	0

Sample Title: 09

Channel								
377:	0	0	0	0	2	0	1	1
385:	0	1	0	0	0	0	0	1
393:	1	0	0	0	0	1	1	0
401:	1	0	1	0	1	2	1	0
409:	0	0	0	1	0	1	0	0
417:	0	0	0	1	1	1	0	1
425:	0	0	1	0	0	2	1	0
433:	0	0	1	1	0	0	2	1
441:	1	1	3	2	2	2	0	3
449:	1	0	5	2	0	3	3	5
457:	10	2	5	6	4	2	3	6
465:	2	2	5	4	4	4	3	3
473:	2	4	2	0	3	4	1	0
481:	2	1	2	3	1	3	1	0
489:	3	1	1	0	1	3	2	1
497:	2	1	1	1	1	2	0	1
505:	2	1	0	2	0	1	0	0
513:	0	0	1	2	0	1	2	1
521:	2	0	1	1	0	0	1	1
529:	0	2	0	0	1	0	1	0
537:	1	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	1	0	0	1	0	0	0
633:	0	0	0	0	0	0	1	0
641:	0	0	0	1	0	0	1	0
649:	0	0	1	0	0	1	0	0
657:	0	0	0	0	1	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	1	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	1	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	1	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	1	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 7/21/15

Apex-Alpha™

Sample Description: FEEBRISID-15 085-086
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 123494
Reagent Blank: <not performed>

Sample Size: 1.222E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/2/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:33 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.2221 +/- 0.0173
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 1.2783 +/- 0.1021

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.917	31.66	35.05	0.34	0.00E+000	3.8
TH-228		5.322	3.66	107.87	0.34	0.00E+000	3.0
TH-229	T	4.872	196.32	14.02	0.68	0.00E+000	13.2
TH-230		4.625	3154.66	3.49	0.34	0.00E+000	69.6
TH-232		3.936	31.98	35.30	1.02	0.00E+000	3.0

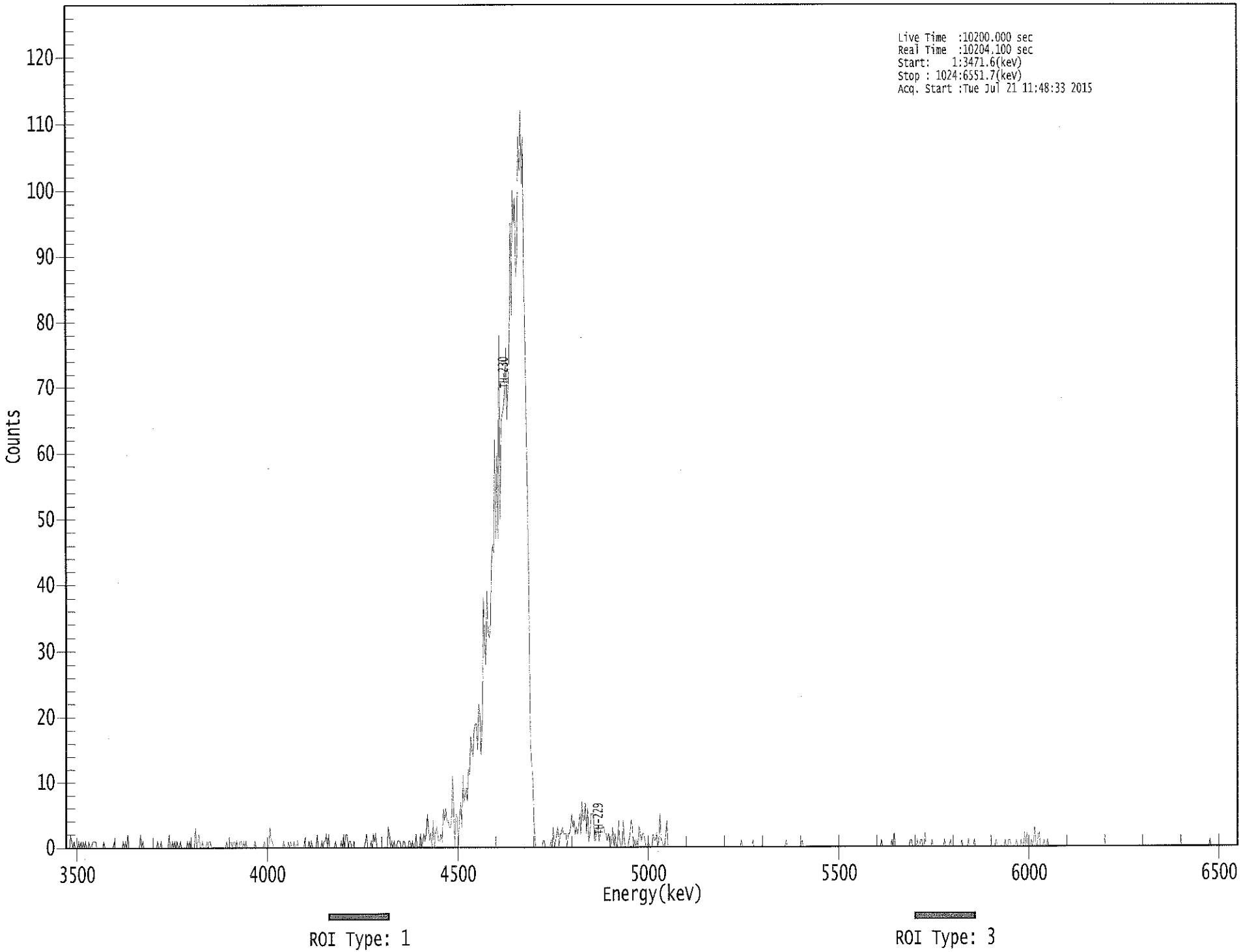
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.977	5850.00*	3.18E-001 +/- 1.21E-001	4.80E-002 +/- 7.33E-003
TH-228	0.969	5400.00*	3.64E-002 +/- 3.97E-002	4.76E-002 +/- 7.27E-003
TH-229	1.000	4872.00*	1.93E+000 +/- 2.94E-001	5.53E-002 +/- 8.45E-003
TH-230	0.989	4672.00*	3.09E+001 +/- 4.84E+000	4.68E-002 +/- 7.14E-003
TH-232	0.980	3997.00*	3.12E-001 +/- 1.20E-001	6.15E-002 +/- 9.40E-003

AG 7/22/15

0000123631.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	2	1	0	1
9:	0	0	0	1	0	1	0	1
17:	0	1	0	0	1	0	0	1
25:	1	1	1	0	0	0	0	0
33:	0	1	0	0	0	0	0	0
41:	0	0	1	0	0	0	0	0
49:	0	0	1	0	1	0	2	0
57:	0	0	0	0	0	0	0	0
65:	0	2	0	1	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	1	0	0	1	0	0	0	0
89:	0	0	2	0	0	1	0	1
97:	0	1	0	0	1	0	0	0
105:	0	0	1	0	1	0	0	0
113:	0	3	0	1	2	0	0	1
121:	0	0	0	1	0	1	1	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	1	0	0	1
145:	1	0	1	1	0	1	0	0
153:	1	1	0	1	0	1	0	0
161:	0	0	0	0	0	1	0	0
169:	0	0	0	0	0	1	0	0
177:	0	0	3	1	1	0	0	0
185:	0	0	0	0	0	0	1	0
193:	0	0	1	0	1	0	0	1
201:	0	0	1	0	0	0	0	0
209:	1	0	0	0	1	0	1	0
217:	0	0	0	2	0	0	0	1
225:	0	1	1	2	0	2	0	0
233:	0	0	0	1	0	0	0	0
241:	1	0	2	0	2	2	0	1
249:	1	0	0	1	0	0	0	0
257:	0	0	0	0	0	1	2	0
265:	0	0	1	0	2	1	2	0
273:	0	0	0	0	0	0	0	0
281:	0	3	2	0	1	0	1	0
289:	0	1	1	1	0	0	1	1
297:	0	0	0	1	1	0	1	0
305:	0	2	0	0	0	2	0	1
313:	2	1	2	5	3	1	2	0
321:	4	0	2	3	2	1	1	2
329:	1	6	4	6	4	4	3	3
337:	4	11	5	0	5	5	0	4
345:	7	3	11	7	8	9	7	12
353:	11	17	15	14	18	19	19	15
361:	22	20	14	20	38	31	28	39

369:	33	32	33	43	46	45	62	47

Sample Title: 10

Channel								
377:	60	47	78	50	65	66	67	69
385:	76	65	70	75	95	81	100	95
393:	99	87	90	108	103	113	101	108
401:	88	74	64	50	34	16	13	11
409:	4	1	0	0	0	0	0	0
417:	1	1	0	0	0	0	0	1
425:	0	3	0	1	2	3	0	2
433:	2	3	2	2	2	0	2	2
441:	3	5	3	4	2	3	2	3
449:	5	2	7	4	4	7	2	6
457:	1	2	5	5	5	1	1	3
465:	3	1	2	3	3	3	2	2
473:	1	2	1	0	1	3	0	2
481:	0	0	4	1	0	0	4	1
489:	0	0	0	1	2	4	3	0
497:	1	0	1	0	3	2	1	2
505:	2	1	0	0	1	0	0	0
513:	2	1	1	2	0	1	5	1
521:	1	0	0	2	4	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	1	0	0
593:	0	0	0	0	0	0	0	1
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	1	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	1
713:	0	0	0	0	0	0	0	0
721:	1	0	2	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	1	1	0	0	0	0	1	0
745:	0	1	1	0	0	2	0	0
753:	0	0	0	1	0	0	0	0
761:	0	0	0	0	0	0	1	0
769:	0	0	0	1	0	0	0	0
777:	0	0	0	0	0	1	0	0
785:	0	0	0	1	0	0	0	0
793:	1	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	1	0	0	0	0
817:	0	0	0	1	0	0	1	1
825:	0	0	0	0	0	1	0	0
833:	0	1	0	0	2	0	2	0
841:	0	0	1	0	1	3	0	0
849:	2	2	0	0	0	1	0	0
857:	1	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	1	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/21/15

Sample Description: FEEBRISID-11 085-086
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 11
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 123495
Reagent Blank: <not performed>

Sample Size: 1.174E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/2/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:35 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.2033 +/- 0.0165
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 1.0176 +/- 0.0843

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.919	83.32	21.57	0.68	0.00E+000	3.0
TH-228		5.363	19.30	46.86	1.70	0.00E+000	6.8
TH-229	T	4.888	179.81	14.67	1.19	0.00E+000	10.0
TH-230		4.633	10705.15	1.89	0.85	0.00E+000	63.8
TH-232		3.957	121.66	17.80	0.34	0.00E+000	4.1

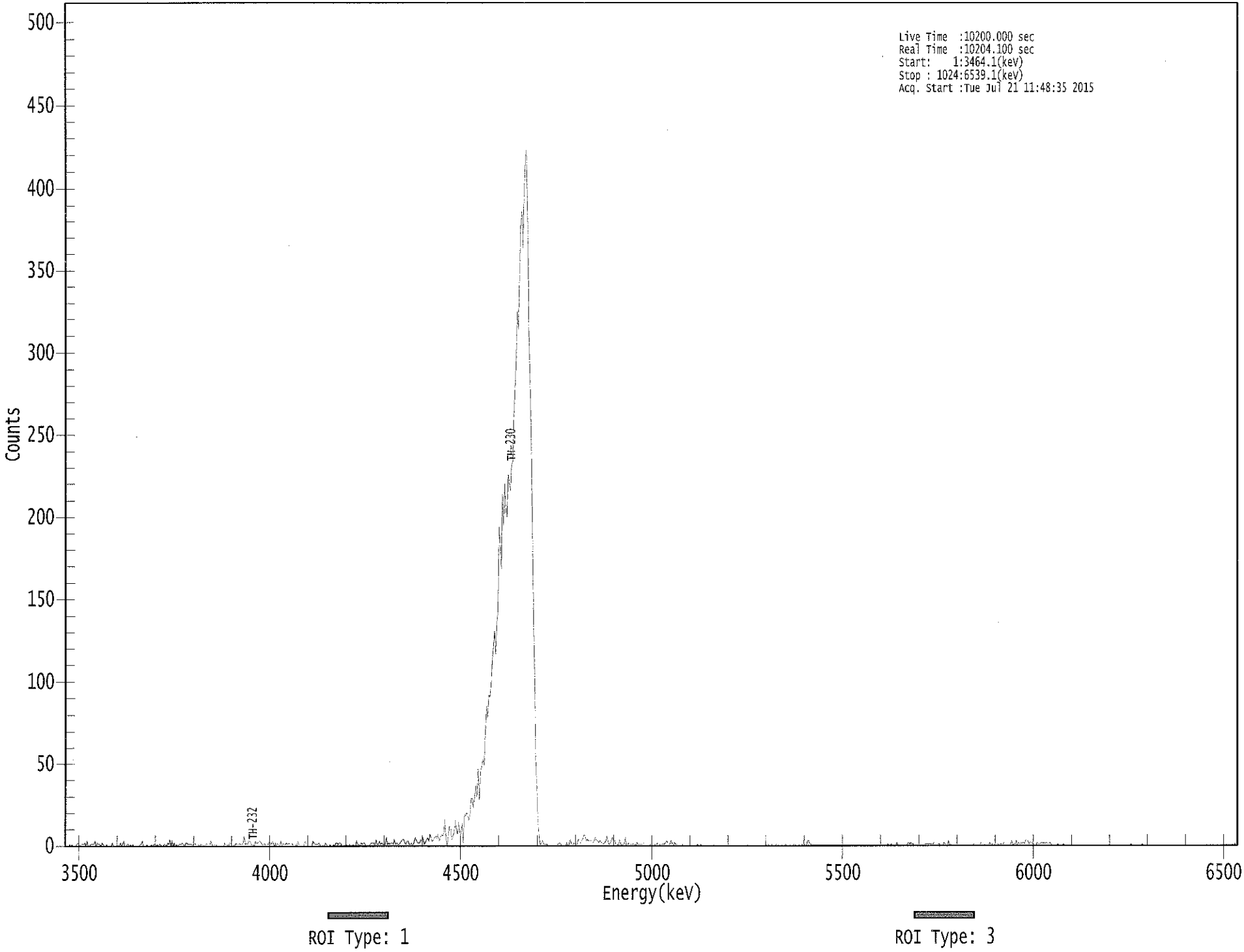
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.976	5850.00*	9.50E-001 +/- 2.55E-001	6.43E-002 +/- 1.02E-002
TH-228	0.993	5400.00*	2.18E-001 +/- 1.08E-001	8.32E-002 +/- 1.32E-002
TH-229	0.999	4872.00*	2.01E+000 +/- 3.19E-001	7.35E-002 +/- 1.17E-002
TH-230	0.992	4672.00*	1.19E+002 +/- 1.90E+001	6.66E-002 +/- 1.06E-002
TH-232	0.992	3997.00*	1.35E+000 +/- 3.22E-001	5.31E-002 +/- 8.43E-003

AG 7/22/15

0000123629.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	2	0	0	0	1	0	1	0
9:	0	0	1	2	1	0	1	1
17:	1	2	0	3	0	0	1	1
25:	1	1	3	0	2	1	1	0
33:	2	1	0	0	1	0	0	0
41:	0	2	0	0	0	0	0	0
49:	2	0	1	3	0	0	1	1
57:	0	1	0	1	0	0	0	0
65:	0	1	1	3	0	0	0	1
73:	0	0	0	1	0	1	1	0
81:	1	0	1	1	0	0	1	1
89:	0	2	1	4	0	3	0	2
97:	0	1	0	1	1	1	2	1
105:	0	2	2	1	1	1	1	1
113:	1	2	0	0	1	0	1	1
121:	0	1	0	2	1	0	1	3
129:	1	0	1	0	1	1	1	1
137:	0	0	0	2	0	1	0	2
145:	2	1	1	0	1	2	1	1
153:	2	1	1	2	6	1	2	1
161:	3	3	2	0	1	0	3	2
169:	2	3	3	2	1	1	2	0
177:	1	1	4	1	2	3	0	2
185:	0	2	1	0	3	0	2	1
193:	1	2	1	2	1	0	2	0
201:	0	1	0	3	1	0	0	0
209:	0	3	2	1	0	0	0	0
217:	3	2	1	1	1	2	1	0
225:	0	0	0	2	1	0	0	1
233:	0	0	1	0	2	2	1	2
241:	2	1	0	0	0	1	0	0
249:	1	0	0	1	0	0	3	1
257:	1	0	2	1	2	2	0	0
265:	0	0	1	2	2	2	0	4
273:	1	1	3	1	2	1	1	1
281:	5	1	2	1	2	2	1	4
289:	1	2	1	1	2	3	4	4
297:	2	1	3	3	1	1	2	0
305:	2	5	4	2	2	2	4	3
313:	5	1	2	4	5	3	7	5
321:	3	4	5	6	5	7	3	5
329:	7	6	8	16	4	0	7	12
337:	11	4	6	8	15	10	7	14
345:	8	7	14	2	19	18	20	19
353:	16	19	29	29	24	30	37	30
361:	47	27	45	49	53	50	68	85

369:	78	92	91	99	112	123	131	117

Sample Title: 11

Channel								
377:	136	143	194	183	169	214	195	220
385:	204	200	226	221	216	231	234	262
393:	279	294	325	314	351	377	387	363
401:	394	419	423	377	312	281	250	192
409:	138	99	53	35	15	5	1	2
417:	3	1	1	1	1	0	0	0
425:	0	0	0	0	0	1	1	2
433:	1	0	0	0	0	2	0	1
441:	4	1	0	2	1	1	1	4
449:	3	2	3	4	7	6	3	4
457:	3	3	3	3	2	3	5	3
465:	3	2	3	2	2	1	2	3
473:	6	2	1	1	4	5	2	3
481:	0	1	0	4	1	0	1	1
489:	5	0	0	2	1	1	1	1
497:	1	0	2	1	1	1	1	1
505:	2	0	0	0	0	0	1	1
513:	1	0	1	0	2	0	1	0
521:	1	1	1	2	3	2	1	1
529:	3	2	0	2	1	1	0	0
537:	0	0	1	0	0	0	0	0
545:	0	0	0	0	0	0	0	1
553:	0	0	1	0	0	0	0	0
561:	0	0	0	0	0	1	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	1	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	1	0	1	0	0
617:	1	0	0	0	1	0	1	0
625:	0	0	0	0	1	0	0	0
633:	0	0	0	1	1	0	0	0
641:	0	0	1	0	0	1	0	3
649:	3	1	1	0	0	0	0	0
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	1	0	0
721:	1	0	0	0	0	2	0	0
729:	0	0	0	0	0	0	1	2
737:	1	2	1	1	0	0	0	0
745:	1	0	0	0	1	0	1	1
753:	1	1	1	1	0	2	1	0
761:	0	1	1	0	0	0	2	1
769:	0	0	3	0	1	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	1	0	0	0	0	0	2	0

801:	0	0	1	0	0	0	2	0

Sample Title: 11

Channel								
809:	1	0	0	0	0	1	0	1
817:	1	0	2	1	0	0	0	0
825:	1	3	0	1	1	3	0	2
833:	0	2	1	2	1	3	3	3
841:	1	2	2	1	1	0	0	2
849:	1	1	1	2	1	2	1	2
857:	1	1	2	1	0	0	0	0
865:	0	1	0	0	0	0	1	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	1	0	0	0	0	0	0
937:	0	0	0	1	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	1	0	0	0

KB 7/22/15

Apex-Alpha™

Sample Description: FEEBRISID-11 087-088
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001236
Batch Identification: 1507047A-TH
Sample Identification: 12
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 123496
Reagent Blank: <not performed>

Sample Size: 1.149E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/2/2015 6:38:24 AM
Acquisition Date/Time: 7/21/2015 11:48:37 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.2227 +/- 0.0173
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.2123 +/- 0.0966

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.855	2.83	120.53	0.17	0.00E+000	3.0
TH-228		5.404	24.83	39.49	0.17	0.00E+000	5.2
TH-229	T	4.884	196.83	13.98	0.17	0.00E+000	5.4
TH-230		4.649	133.00	17.06	0.00	0.00E+000	17.2
TH-232		3.957	24.83	39.49	0.17	0.00E+000	4.5

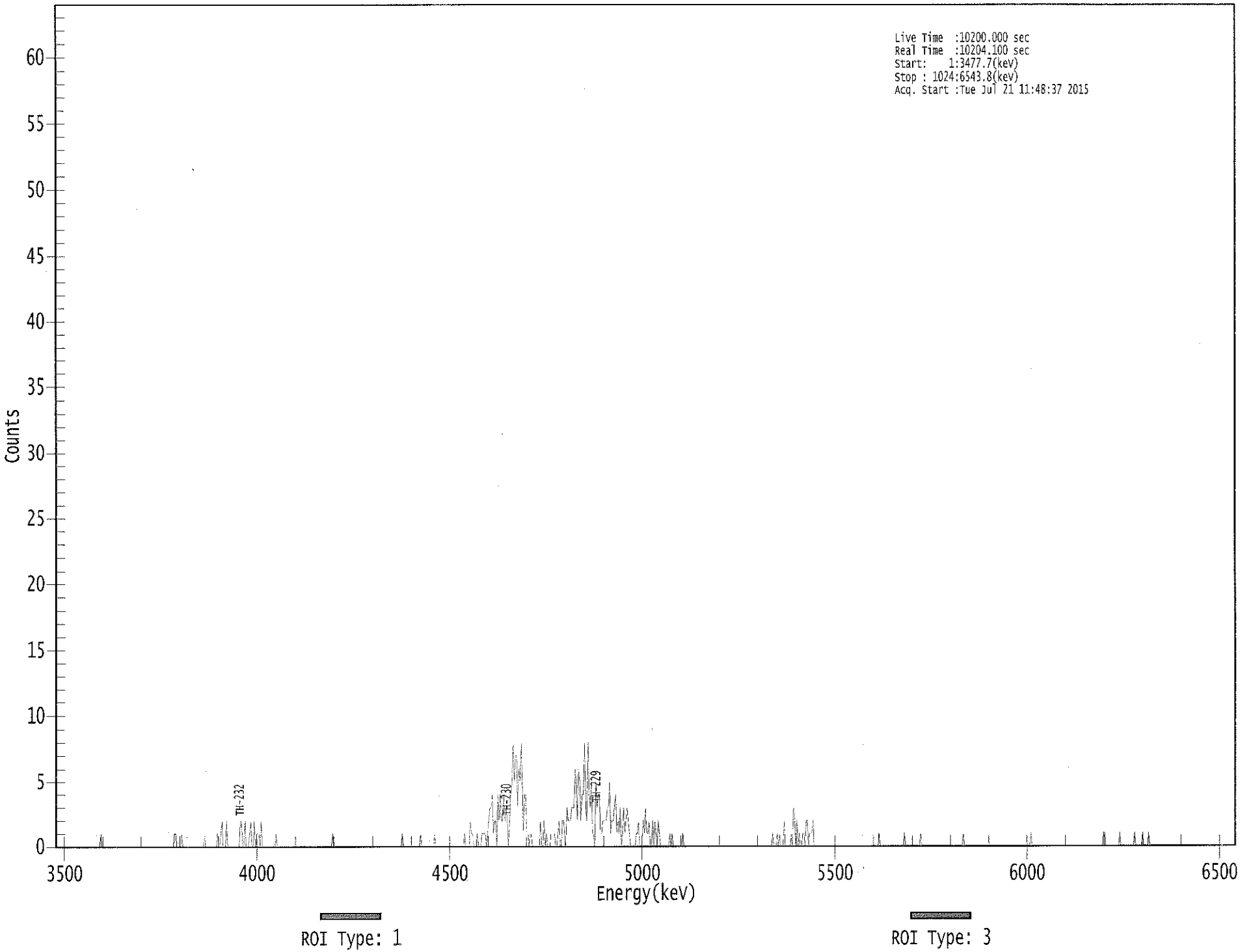
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	3.01E-002 +/- 3.66E-002	4.44E-002 +/- 6.77E-003
TH-228	1.000	5400.00*	2.62E-001 +/- 1.11E-001	4.41E-002 +/- 6.72E-003
TH-229	0.999	4872.00*	2.05E+000 +/- 3.12E-001	4.34E-002 +/- 6.62E-003
TH-230	0.997	4672.00*	1.38E+000 +/- 3.16E-001	6.22E-002 +/- 9.48E-003
TH-232	0.992	3997.00*	2.57E-001 +/- 1.09E-001	4.32E-002 +/- 6.59E-003

AG 7/22/15

0000123621.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 12

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	1
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	1
105:	1	0	0	0	0	1	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	1	0	0	0	0	0	0
137:	0	0	0	0	1	0	0	1
145:	2	0	0	0	2	0	0	0
153:	0	0	0	0	0	0	0	0
161:	2	2	0	0	2	0	0	0
169:	1	2	0	0	2	0	1	1
177:	1	0	2	0	0	0	0	0
185:	0	0	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	1	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	0	0	0
329:	1	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	1	0	0	0	0	2
361:	1	1	0	0	0	1	0	0

369:	0	1	1	1	1	0	1	2

Sample Title: 12

Channel								
377:	3	3	4	1	2	2	0	4
385:	2	4	2	2	4	2	3	2
393:	0	2	4	5	8	5	7	7
401:	3	6	5	8	5	1	4	4
409:	1	1	0	1	1	0	0	0
417:	0	0	0	0	2	0	0	2
425:	0	1	0	0	0	1	1	1
433:	1	0	0	1	2	0	0	2
441:	2	1	0	3	2	2	2	3
449:	3	3	6	5	2	6	5	2
457:	4	4	8	3	2	8	4	3
465:	5	1	1	0	5	3	4	4
473:	1	1	2	2	2	2	3	3
481:	5	1	2	2	3	4	1	2
489:	1	3	0	1	3	1	2	3
497:	2	1	0	0	0	0	0	1
505:	1	2	0	0	0	2	1	3
513:	1	1	2	0	0	2	0	2
521:	1	0	2	1	0	0	0	0
529:	0	0	0	0	1	0	1	0
537:	0	0	0	0	0	0	0	1
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	1	0	0
625:	0	1	0	1	0	0	0	2
633:	0	0	0	0	0	1	0	3
641:	2	0	2	0	1	0	0	1
649:	1	0	2	2	0	1	1	1
657:	2	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	1	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	1
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	1	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	1	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 12

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	1	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	1	1	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	1	0	0	0	0	0
929:	0	0	0	0	0	0	0	1
937:	0	0	0	0	0	0	1	0
945:	0	0	0	1	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/21/2015 5:37:30 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 7/21/2015
Time : 5:37:30 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/21/2015 5:18:51 AM
Alpha_004	21f	ALL	Passed	7/21/2015 5:18:52 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/21/2015 5:18:53 AM
Alpha_011	21f	ALL	Passed	7/21/2015 5:18:53 AM
Alpha_012	21f	ALL	Passed	7/21/2015 5:18:54 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/21/2015 5:18:55 AM
Alpha_015	21f	Peak Energy	Action	7/21/2015 5:18:56 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:18:57 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:18:59 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:00 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:02 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:03 AM
Alpha_038	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:05 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:06 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:08 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:09 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:11 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:13 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:14 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:16 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:18 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:20 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:21 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:23 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:25 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:28 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:30 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:32 AM
Alpha_055	Alpha Analyst100DC	Peak FWHM	Action	7/21/2015 5:19:34 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:37 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:39 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:42 AM

Review of QA Results - Pulser Check

7/21/2015 5:37:30 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:45 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/21/2015 5:19:48 AM

APPROVED BY: _____

APPROVAL DATE: 7/21

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

15-07047
Gamma
Run 1

Work Order	15-07047
Analysis Code	Gamma
Run	1
Date Received	7/9/2015
Lab Deadline	7/31/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/10/15 00:00	1.0000E+00
02	MBL	BLANK		07/10/15 00:00	1.0000E+00
03	DUP	FEEBRISID-3 028-029	38	07/06/15 11:26	2.8322E+02
04	DO	FEEBRISID-3 028-029	38	07/06/15 11:26	2.8322E+02
05	TRG	FEEBRISID-3 041-043	35	07/06/15 13:09	2.6791E+02
06	TRG	DUPLICATE 2	41	07/06/15 13:09	2.1769E+02
07	TRG	FEEBRISID-12 061-062	37	07/06/15 10:07	1.0276E+02
08	TRG	FEEBRISID-12 074-075	37	07/06/15 10:30	4.5123E+02
09	TRG	FEEBRISID-15 077-080	40	07/02/15 15:50	4.0860E+02
10	TRG	FEEBRISID-15 085-086	43	07/02/15 15:22	3.9487E+02
11	TRG	FEEBRISID-11 085-086	54	07/02/15 10:26	6.0764E+02
12	TRG	FEEBRISID-11 087-088	31	07/02/15 10:40	5.8150E+02

T0520

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								
05	TRG				0.00								
06	TRG				0.00								
07	TRG				0.00								
08	TRG				0.00								
09	TRG				0.00								
10	TRG				0.00								
11	TRG				0.00								
12	TRG				0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-07047
Gamma
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	07/13/15 07:04	KSALLINGS						
05	TRG	07/13/15 07:04	KSALLINGS						
06	TRG	07/13/15 07:04	KSALLINGS						
07	TRG	07/13/15 07:04	KSALLINGS						
08	TRG	07/13/15 07:04	KSALLINGS						
09	TRG	07/13/15 07:04	KSALLINGS						
10	TRG	07/13/15 07:04	KSALLINGS						
11	TRG	07/13/15 07:04	KSALLINGS						
12	TRG	07/13/15 07:04	KSALLINGS						

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-07047-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.40E+02	8.10E+00	1.02E+00	1.37E+02	102.39	OK		07/10/15 00:00	1.00E+00	07/31/15 07:58	YES
01	CS-137	LCS	LCS	pCi/g	9.22E+01	8.15E+00	1.23E+00	8.69E+01	106.01	OK		07/10/15 00:00	1.00E+00	07/31/15 07:58	YES
02	AC-228	MBL	BLANK	pCi/g	5.81E-02	1.44E-01	2.67E-01					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	BI-214	MBL	BLANK	pCi/g	1.16E-01	6.98E-02	9.56E-02					07/10/15 00:00	1.00E+00	07/31/15 07:58	YES
02	K-40	MBL	BLANK	pCi/g	0.00E+00	0.00E+00	8.46E-01					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	PA-231	MBL	BLANK	pCi/g	-1.03E+00	1.40E+00	1.99E+00					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	PB-210	MBL	BLANK	pCi/g	1.75E-01	3.02E-01	4.95E-01					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	PB-212	MBL	BLANK	pCi/g	8.74E-03	5.83E-02	9.50E-02					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	PB-214	MBL	BLANK	pCi/g	1.95E-02	7.74E-02	1.31E-01					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	RA-226	MBL	BLANK	pCi/g	1.16E-01	6.98E-02	9.56E-02					07/10/15 00:00	1.00E+00	07/31/15 07:58	YES
02	RA-228	MBL	BLANK	pCi/g	5.81E-02	1.44E-01	2.67E-01					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	TH-234	MBL	BLANK	pCi/g	2.68E-01	4.10E-01	6.65E-01					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
02	TL-208	MBL	BLANK	pCi/g	-2.23E-02	1.36E-01	2.07E-01					07/10/15 00:00	1.00E+00	07/31/15 07:58	NO
03	AC-228	DUP	FEEBRISID-3 028-029	pCi/g	2.14E+00	3.05E+00	4.76E+00					07/06/15 11:26	2.83E+02	08/03/15 06:15	NO
03	BI-214	DUP	FEEBRISID-3 028-029	pCi/g	1.88E+02	1.03E+01	3.24E+00					07/06/15 11:26	2.83E+02	08/03/15 06:15	YES
03	K-40	DUP	FEEBRISID-3 028-029	pCi/g	1.05E+01	9.96E+00	1.65E+01				NA	07/06/15 11:26	2.83E+02	08/03/15 06:15	YES
03	PA-231	DUP	FEEBRISID-3 028-029	pCi/g	-9.38E+02	1.18E+02	4.71E+01				NA	07/06/15 11:26	2.83E+02	08/03/15 06:15	NO
03	PB-210	DUP	FEEBRISID-3 028-029	pCi/g	1.14E+02	1.42E+01	1.94E+01				NA	07/06/15 11:26	2.83E+02	08/03/15 06:15	YES
03	PB-212	DUP	FEEBRISID-3 028-029	pCi/g	3.98E+01	4.49E+00	3.31E+00					07/06/15 11:26	2.83E+02	08/03/15 06:15	NO
03	PB-214	DUP	FEEBRISID-3 028-029	pCi/g	2.05E+02	1.63E+01	3.59E+00					07/06/15 11:26	2.83E+02	08/03/15 06:15	YES
03	RA-226	DUP	FEEBRISID-3 028-029	pCi/g	1.88E+02	1.03E+01	3.24E+00					07/06/15 11:26	2.83E+02	08/03/15 06:15	YES
03	RA-228	DUP	FEEBRISID-3 028-029	pCi/g	2.14E+00	3.05E+00	4.76E+00					07/06/15 11:26	2.83E+02	08/03/15 06:15	NO
03	TH-234	DUP	FEEBRISID-3 028-029	pCi/g	2.35E+02	2.27E+01	2.39E+01					07/06/15 11:26	2.83E+02	08/03/15 06:15	NO
03	TL-208	DUP	FEEBRISID-3 028-029	pCi/g	-1.37E-01	9.90E-01	1.59E+00					07/06/15 11:26	2.83E+02	08/03/15 06:15	NO
04	AC-228	DO	FEEBRISID-3 028-029	pCi/g	1.27E+00	2.95E+00	4.59E+00					07/06/15 11:26	2.83E+02	08/03/15 07:19	NO
04	BI-214	DO	FEEBRISID-3 028-029	pCi/g	1.84E+02	1.02E+01	3.56E+00					07/06/15 11:26	2.83E+02	08/03/15 07:19	YES
04	K-40	DO	FEEBRISID-3 028-029	pCi/g	1.16E+01	9.48E+00	1.56E+01					07/06/15 11:26	2.83E+02	08/03/15 07:19	YES
04	PA-231	DO	FEEBRISID-3 028-029	pCi/g	-9.13E+02	1.15E+02	4.68E+01					07/06/15 11:26	2.83E+02	08/03/15 07:19	NO
04	PB-210	DO	FEEBRISID-3 028-029	pCi/g	1.37E+02	1.55E+01	2.02E+01					07/06/15 11:26	2.83E+02	08/03/15 07:19	YES
04	PB-212	DO	FEEBRISID-3 028-029	pCi/g	3.88E+01	4.39E+00	3.30E+00					07/06/15 11:26	2.83E+02	08/03/15 07:19	NO
04	PB-214	DO	FEEBRISID-3 028-029	pCi/g	2.02E+02	1.61E+01	4.57E+00					07/06/15 11:26	2.83E+02	08/03/15 07:19	YES
04	RA-226	DO	FEEBRISID-3 028-029	pCi/g	1.84E+02	1.02E+01	3.56E+00					07/06/15 11:26	2.83E+02	08/03/15 07:19	YES
04	RA-228	DO	FEEBRISID-3 028-029	pCi/g	1.27E+00	2.95E+00	4.59E+00					07/06/15 11:26	2.83E+02	08/03/15 07:19	NO
04	TH-234	DO	FEEBRISID-3 028-029	pCi/g	2.32E+02	2.25E+01	2.39E+01					07/06/15 11:26	2.83E+02	08/03/15 07:19	NO
04	TL-208	DO	FEEBRISID-3 028-029	pCi/g	-6.42E-01	9.87E-01	1.82E+00					07/06/15 11:26	2.83E+02	08/03/15 07:19	NO
05	AC-228	TRG	FEEBRISID-3 041-043	pCi/g	7.43E-01	2.43E-01	4.45E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
05	BI-214	TRG	FEEBRISID-3 041-043	pCi/g	1.22E+00	2.22E-01	3.19E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
05	K-40	TRG	FEEBRISID-3 041-043	pCi/g	8.48E+00	1.58E+00	9.98E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES

Work Order: 15-07047-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
05	PA-231	TRG	FEEBRISID-3 041-043	pCi/g	9.73E-01	2.09E+00	3.42E+00					07/06/15 13:09	2.68E+02	08/03/15 06:15	NO
05	PB-210	TRG	FEEBRISID-3 041-043	pCi/g	2.71E+00	1.85E+00	2.99E+00					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
05	PB-212	TRG	FEEBRISID-3 041-043	pCi/g	5.48E-01	1.34E-01	3.23E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
05	PB-214	TRG	FEEBRISID-3 041-043	pCi/g	1.41E+00	2.03E-01	2.95E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
05	RA-226	TRG	FEEBRISID-3 041-043	pCi/g	1.22E+00	2.22E-01	3.19E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
05	RA-228	TRG	FEEBRISID-3 041-043	pCi/g	7.43E-01	2.43E-01	4.45E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
05	TH-234	TRG	FEEBRISID-3 041-043	pCi/g	1.14E+00	2.00E+00	2.63E+00					07/06/15 13:09	2.68E+02	08/03/15 06:15	NO
05	TL-208	TRG	FEEBRISID-3 041-043	pCi/g	4.81E-01	1.75E-01	2.75E-01					07/06/15 13:09	2.68E+02	08/03/15 06:15	YES
06	AC-228	TRG	DUPLICATE 2	pCi/g	2.88E-01	3.23E-01	5.79E-01					07/06/15 13:09	2.18E+02	08/03/15 06:15	NO
06	BI-214	TRG	DUPLICATE 2	pCi/g	4.15E-01	2.14E-01	5.67E-01					07/06/15 13:09	2.18E+02	08/03/15 06:15	YES
06	K-40	TRG	DUPLICATE 2	pCi/g	4.61E+00	1.33E+00	1.15E+00					07/06/15 13:09	2.18E+02	08/03/15 06:15	YES
06	PA-231	TRG	DUPLICATE 2	pCi/g	1.29E-02	2.87E+00	3.85E+00					07/06/15 13:09	2.18E+02	08/03/15 06:15	NO
06	PB-210	TRG	DUPLICATE 2	pCi/g	4.30E+00	2.91E+00	4.69E+00					07/06/15 13:09	2.18E+02	08/03/15 06:15	NO
06	PB-212	TRG	DUPLICATE 2	pCi/g	3.77E-01	1.27E-01	2.79E-01					07/06/15 13:09	2.18E+02	08/03/15 06:15	YES
06	PB-214	TRG	DUPLICATE 2	pCi/g	4.87E-01	2.32E-01	4.24E-01					07/06/15 13:09	2.18E+02	08/03/15 06:15	YES
06	RA-226	TRG	DUPLICATE 2	pCi/g	4.15E-01	2.14E-01	5.67E-01					07/06/15 13:09	2.18E+02	08/03/15 06:15	YES
06	RA-228	TRG	DUPLICATE 2	pCi/g	2.88E-01	3.23E-01	5.79E-01					07/06/15 13:09	2.18E+02	08/03/15 06:15	NO
06	TH-234	TRG	DUPLICATE 2	pCi/g	2.49E+00	1.12E+00	2.08E+00					07/06/15 13:09	2.18E+02	08/03/15 06:15	NO
06	TL-208	TRG	DUPLICATE 2	pCi/g	2.88E-01	1.85E-01	3.64E-01					07/06/15 13:09	2.18E+02	08/03/15 06:15	YES
07	AC-228	TRG	FEEBRISID-12 061-062	pCi/g	-3.74E-01	6.70E-01	8.62E-01					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
07	BI-214	TRG	FEEBRISID-12 061-062	pCi/g	5.76E-01	4.66E-01	7.41E-01					07/06/15 10:07	1.03E+02	08/03/15 06:15	YES
07	K-40	TRG	FEEBRISID-12 061-062	pCi/g	3.13E+00	1.78E+00	1.77E+00					07/06/15 10:07	1.03E+02	08/03/15 06:15	YES
07	PA-231	TRG	FEEBRISID-12 061-062	pCi/g	-8.97E-01	5.26E+00	7.24E+00					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
07	PB-210	TRG	FEEBRISID-12 061-062	pCi/g	4.96E+00	3.87E+00	5.91E+00					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
07	PB-212	TRG	FEEBRISID-12 061-062	pCi/g	3.67E-01	2.64E-01	4.69E-01					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
07	PB-214	TRG	FEEBRISID-12 061-062	pCi/g	1.33E-02	3.69E-01	5.71E-01					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
07	RA-226	TRG	FEEBRISID-12 061-062	pCi/g	5.76E-01	4.66E-01	7.41E-01					07/06/15 10:07	1.03E+02	08/03/15 06:15	YES
07	RA-228	TRG	FEEBRISID-12 061-062	pCi/g	-3.74E-01	6.70E-01	8.62E-01					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
07	TH-234	TRG	FEEBRISID-12 061-062	pCi/g	7.49E+00	2.95E+00	5.09E+00					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
07	TL-208	TRG	FEEBRISID-12 061-062	pCi/g	-5.25E-01	5.63E-01	7.22E-01					07/06/15 10:07	1.03E+02	08/03/15 06:15	NO
08	AC-228	TRG	FEEBRISID-12 074-075	pCi/g	1.09E+00	2.24E-01	4.03E-01					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	BI-214	TRG	FEEBRISID-12 074-075	pCi/g	1.02E+00	1.69E-01	2.29E-01					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	K-40	TRG	FEEBRISID-12 074-075	pCi/g	1.22E+01	1.69E+00	1.00E+00					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	PA-231	TRG	FEEBRISID-12 074-075	pCi/g	2.22E-01	1.46E+00	2.40E+00					07/06/15 10:30	4.51E+02	08/03/15 07:19	NO
08	PB-210	TRG	FEEBRISID-12 074-075	pCi/g	1.58E+00	1.39E+00	2.30E+00					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	PB-212	TRG	FEEBRISID-12 074-075	pCi/g	1.26E+00	1.64E-01	3.15E-01					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	PB-214	TRG	FEEBRISID-12 074-075	pCi/g	9.67E-01	1.45E-01	2.11E-01					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	RA-226	TRG	FEEBRISID-12 074-075	pCi/g	1.02E+00	1.69E-01	2.29E-01					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES

Work Order: 15-07047-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
08	RA-228	TRG	FEEBRISID-12 074-075	pCi/g	1.09E+00	2.24E-01	4.03E-01					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	TH-234	TRG	FEEBRISID-12 074-075	pCi/g	2.45E+00	1.67E+00	2.75E+00					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
08	TL-208	TRG	FEEBRISID-12 074-075	pCi/g	1.06E+00	1.74E-01	1.17E-01					07/06/15 10:30	4.51E+02	08/03/15 07:19	YES
09	AC-228	TRG	FEEBRISID-15 077-080	pCi/g	4.94E-01	2.08E-01	5.53E-01					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
09	BI-214	TRG	FEEBRISID-15 077-080	pCi/g	7.03E-01	1.84E-01	2.96E-01					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
09	K-40	TRG	FEEBRISID-15 077-080	pCi/g	1.22E+01	1.89E+00	1.04E+00					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
09	PA-231	TRG	FEEBRISID-15 077-080	pCi/g	-1.50E-01	1.90E+00	2.47E+00					07/02/15 15:50	4.09E+02	08/03/15 07:19	NO
09	PB-210	TRG	FEEBRISID-15 077-080	pCi/g	2.43E+00	1.76E+00	2.79E+00					07/02/15 15:50	4.09E+02	08/03/15 07:19	NO
09	PB-212	TRG	FEEBRISID-15 077-080	pCi/g	6.59E-01	1.17E-01	2.12E-01					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
09	PB-214	TRG	FEEBRISID-15 077-080	pCi/g	7.84E-01	1.44E-01	2.39E-01					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
09	RA-226	TRG	FEEBRISID-15 077-080	pCi/g	7.03E-01	1.84E-01	2.96E-01					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
09	RA-228	TRG	FEEBRISID-15 077-080	pCi/g	4.94E-01	2.08E-01	5.53E-01					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
09	TH-234	TRG	FEEBRISID-15 077-080	pCi/g	9.66E-01	9.18E-01	1.50E+00					07/02/15 15:50	4.09E+02	08/03/15 07:19	NO
09	TL-208	TRG	FEEBRISID-15 077-080	pCi/g	5.91E-01	1.55E-01	2.14E-01					07/02/15 15:50	4.09E+02	08/03/15 07:19	YES
10	AC-228	TRG	FEEBRISID-15 085-086	pCi/g	2.36E-01	4.21E-01	6.76E-01					07/02/15 15:22	3.95E+02	08/03/15 07:19	NO
10	BI-214	TRG	FEEBRISID-15 085-086	pCi/g	8.82E+00	7.22E-01	4.79E-01					07/02/15 15:22	3.95E+02	08/03/15 07:19	YES
10	K-40	TRG	FEEBRISID-15 085-086	pCi/g	2.59E+00	1.16E+00	1.61E+00					07/02/15 15:22	3.95E+02	08/03/15 07:19	YES
10	PA-231	TRG	FEEBRISID-15 085-086	pCi/g	6.73E+00	4.06E+00	6.34E+00					07/02/15 15:22	3.95E+02	08/03/15 07:19	NO
10	PB-210	TRG	FEEBRISID-15 085-086	pCi/g	1.47E+01	3.21E+00	7.04E+00					07/02/15 15:22	3.95E+02	08/03/15 07:19	YES
10	PB-212	TRG	FEEBRISID-15 085-086	pCi/g	8.78E-01	3.02E-01	4.64E-01					07/02/15 15:22	3.95E+02	08/03/15 07:19	NO
10	PB-214	TRG	FEEBRISID-15 085-086	pCi/g	1.02E+01	7.16E-01	5.81E-01					07/02/15 15:22	3.95E+02	08/03/15 07:19	YES
10	RA-226	TRG	FEEBRISID-15 085-086	pCi/g	8.82E+00	7.22E-01	4.79E-01					07/02/15 15:22	3.95E+02	08/03/15 07:19	YES
10	RA-228	TRG	FEEBRISID-15 085-086	pCi/g	2.36E-01	4.21E-01	6.76E-01					07/02/15 15:22	3.95E+02	08/03/15 07:19	NO
10	TH-234	TRG	FEEBRISID-15 085-086	pCi/g	9.17E-01	2.07E+00	4.05E+00					07/02/15 15:22	3.95E+02	08/03/15 07:19	NO
10	TL-208	TRG	FEEBRISID-15 085-086	pCi/g	2.13E-01	2.95E-01	4.69E-01					07/02/15 15:22	3.95E+02	08/03/15 07:19	NO
11	AC-228	TRG	FEEBRISID-11 085-086	pCi/g	1.10E+00	4.39E-01	7.98E-01					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	BI-214	TRG	FEEBRISID-11 085-086	pCi/g	2.44E+01	1.37E+00	5.47E-01					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	K-40	TRG	FEEBRISID-11 085-086	pCi/g	8.30E+00	1.62E+00	2.03E+00					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	PA-231	TRG	FEEBRISID-11 085-086	pCi/g	4.70E+00	3.83E+00	6.12E+00					07/02/15 10:26	6.08E+02	08/03/15 08:25	NO
11	PB-210	TRG	FEEBRISID-11 085-086	pCi/g	2.90E+01	4.74E+00	5.74E+00					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	PB-212	TRG	FEEBRISID-11 085-086	pCi/g	8.70E-01	2.94E-01	7.21E-01					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	PB-214	TRG	FEEBRISID-11 085-086	pCi/g	2.83E+01	1.64E+00	6.16E-01					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	RA-226	TRG	FEEBRISID-11 085-086	pCi/g	2.44E+01	1.37E+00	5.47E-01					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	RA-228	TRG	FEEBRISID-11 085-086	pCi/g	1.10E+00	4.39E-01	7.98E-01					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
11	TH-234	TRG	FEEBRISID-11 085-086	pCi/g	2.31E-01	2.56E+00	4.93E+00					07/02/15 10:26	6.08E+02	08/03/15 08:25	NO
11	TL-208	TRG	FEEBRISID-11 085-086	pCi/g	5.35E-01	1.29E-01	8.72E-02					07/02/15 10:26	6.08E+02	08/03/15 08:25	YES
12	AC-228	TRG	FEEBRISID-11 087-088	pCi/g	6.82E-01	1.74E-01	2.92E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES
12	BI-214	TRG	FEEBRISID-11 087-088	pCi/g	7.33E-01	1.21E-01	1.71E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES

Work Order: 15-07047-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
12	K-40	TRG	FEEBRISID-11 087-088	pCi/g	5.27E+00	9.96E-01	7.88E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES
12	PA-231	TRG	FEEBRISID-11 087-088	pCi/g	6.07E-01	1.55E+00	2.04E+00					07/02/15 10:40	5.82E+02	08/03/15 08:25	NO
12	PB-210	TRG	FEEBRISID-11 087-088	pCi/g	1.96E+00	1.31E+00	2.08E+00					07/02/15 10:40	5.82E+02	08/03/15 08:25	NO
12	PB-212	TRG	FEEBRISID-11 087-088	pCi/g	6.21E-01	1.07E-01	2.03E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES
12	PB-214	TRG	FEEBRISID-11 087-088	pCi/g	9.07E-01	1.36E-01	1.50E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES
12	RA-226	TRG	FEEBRISID-11 087-088	pCi/g	7.33E-01	1.21E-01	1.71E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES
12	RA-228	TRG	FEEBRISID-11 087-088	pCi/g	6.82E-01	1.74E-01	2.92E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES
12	TH-234	TRG	FEEBRISID-11 087-088	pCi/g	2.11E+00	1.23E+00	1.99E+00					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES
12	TL-208	TRG	FEEBRISID-11 087-088	pCi/g	5.71E-01	1.14E-01	1.46E-01					07/02/15 10:40	5.82E+02	08/03/15 08:25	YES

1352

Count Room Report
Client: AMO Environmental Decisio

15-07047-Gamma-1 (pCi/g) in SO
Tracer ID:

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/10/15 00:00	1.0000				0.00		
02	MBL	BLANK	07/10/15 00:00	1.0000				0.00		
03	DUP	FEEBRISID-3 028-029	07/06/15 11:26	283.2200				0.00		
04	DO	FEEBRISID-3 028-029	07/06/15 11:26	283.2200				0.00		
05	TRG	FEEBRISID-3 041-043	07/06/15 13:09	267.9100				0.00		
06	TRG	DUPLICATE 2	07/06/15 13:09	217.6900				0.00		
07	TRG	FEEBRISID-12 061-062	07/06/15 10:07	102.7600				0.00		
08	TRG	FEEBRISID-12 074-075	07/06/15 10:30	451.2300				0.00		
09	TRG	FEEBRISID-15 077-080	07/02/15 15:50	408.6000				0.00		
10	TRG	FEEBRISID-15 085-086	07/02/15 15:22	394.8700				0.00		
11	TRG	FEEBRISID-11 085-086	07/02/15 10:26	607.6400				0.00		
12	TRG	FEEBRISID-11 087-088	07/02/15 10:40	581.5000				0.00		

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Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
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CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY HEALTH PHYSICS SOCIETY FOUNDED 1956

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00389

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07047	1	Gamma	grams	7/31/2015	KSALLINGS

Lab Fraction	AMO Environmental Decisions	Sample	Muffle Data	Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
	Client ID	Type	Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq
01	LCS	LCS				1.00E+00	1.0000E+00	1.0000E+00				
02	BLANK	MBL				1.00E+00	1.0000E+00	1.0000E+00				
03	FEEBRISID-3 028-029	DUP				1.00E+00	2.8322E+02	2.8322E+02				
04	FEEBRISID-3 028-029	DO				1.00E+00	2.8322E+02	2.8322E+02				
05	FEEBRISID-3 041-043	TRG				1.00E+00	2.6791E+02	2.6791E+02				
06	DUPLICATE 2	TRG				1.00E+00	2.1769E+02	2.1769E+02				
07	FEEBRISID-12 061-062	TRG				1.00E+00	1.0276E+02	1.0276E+02				
08	FEEBRISID-12 074-075	TRG				1.00E+00	4.5123E+02	4.5123E+02				
09	FEEBRISID-15 077-080	TRG				1.00E+00	4.0860E+02	4.0860E+02				
10	FEEBRISID-15 085-086	TRG				1.00E+00	3.9487E+02	3.9487E+02				
11	FEEBRISID-11 085-086	TRG				1.00E+00	6.0764E+02	6.0764E+02				
12	FEEBRISID-11 087-088	TRG				1.00E+00	5.8150E+02	5.8150E+02				

Comments	

Technician: Kenny Salis Date: 7/13/15

00310

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/13/2015 7:04 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07047	7/31/2015	7/12/2015	7/13/2015	7/14/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRISID-3 028-029	29.0400	1078.7600	807.4600	1049.7200	778.4200	25.84%	74.16%	0.0000	0.0000	
05	FEEBRISID-3 041-043	28.7800	885.2600	593.0300	856.4800	564.2500	34.12%	65.88%	0.0000	0.0000	
06	DUPLICATE 2	28.7900	1029.5600	556.5800	1000.7700	527.7900	47.26%	52.74%	0.0000	0.0000	
07	FEEBRISID-12 061-062	28.7600	974.2600	414.3300	945.5000	385.5700	59.22%	40.78%	0.0000	0.0000	
08	FEEBRISID-12 074-075	28.8400	992.3800	817.9800	963.5400	789.1400	18.10%	81.90%	0.0000	0.0000	
09	FEEBRISID-15 077-080	28.8100	915.2600	685.2600	886.4500	656.4500	25.95%	74.05%	0.0000	0.0000	
10	FEEBRISID-15 085-086	28.8900	1096.0600	875.9200	1067.1700	847.0300	20.63%	79.37%	0.0000	0.0000	
11	FEEBRISID-11 085-086	14.7400	1264.2600	1171.2800	1249.5200	1156.5400	7.44%	92.56%	0.0000	0.0000	
12	FEEBRISID-11 087-088	29.4900	1979.8000	1828.2000	1950.3100	1798.7100	7.77%	92.23%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

Technician: Kerry Sallings Date: **Analysis: Rough Prep Logbook** **Analysis: Gamma Page No. 9334**

Apex-Gamma

Analysis Report for 1507047-01
GAS-1302

7/31

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 7:49:53AM
Acquisition Started	: 7/31/2015 7:58:18AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1852.2 seconds
Dead Time	: 2.82 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25409

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

Analysis Report for 1507047-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 7/31/2015 8:29:13AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	21.95	22.20	0.0000	0.00
2	24.78	25.02	0.0000	0.00
3	32.20	32.44	0.0000	0.00
4	51.15	51.38	0.0000	0.00
5	56.03	56.26	0.0000	0.00
6	59.44	59.67	0.0000	0.00
7	68.09	68.31	0.0000	0.00
8	87.97	88.18	0.0000	0.00
9	122.11	122.30	0.0000	0.00
10	136.51	136.69	0.0000	0.00
11	166.04	166.21	0.0000	0.00
12	311.78	311.87	0.0000	0.00
13	391.99	392.05	0.0000	0.00
14	662.15	662.06	0.0000	0.00
15	778.96	778.82	0.0000	0.00
16	898.84	898.65	0.0000	0.00
17	1174.08	1173.77	0.0000	0.00
18	1178.83	1178.52	0.0000	0.00
19	1333.49	1333.11	0.0000	0.00
20	1600.85	1600.38	0.0000	0.00
21	1609.06	1608.58	0.0000	0.00
22	1837.40	1836.84	0.0000	0.00
23	2205.78	2205.11	0.0000	0.00
24	2221.86	2221.19	0.0000	0.00
25	2507.45	2506.70	0.0000	0.00
26	2615.83	2615.05	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/31/2015 8:29:13AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	21.95	19 -	29	22.20	1.28E+05	785.61	1.75E+04	1.53
m	2	24.78	19 -	29	25.02	4.06E+04	830.80	1.29E+04	1.69
	3	32.20	30 -	35	32.44	2.11E+03	273.74	1.34E+04	1.87
M	4	51.15	45 -	63	51.38	1.30E+04	667.33	4.67E+04	3.79
m	5	56.03	45 -	63	56.26	1.14E+04	809.25	3.73E+04	2.87
m	6	59.44	45 -	63	59.67	9.32E+04	686.67	2.01E+04	1.74
	7	68.09	66 -	72	68.31	9.86E+02	421.78	3.17E+04	2.92
	8	87.97	83 -	92	88.18	4.63E+04	660.29	3.55E+04	1.63
	9	122.11	118 -	125	122.30	1.07E+04	376.27	1.65E+04	1.78
	10	136.51	134 -	139	136.69	1.11E+03	245.24	1.11E+04	1.45
	11	166.04	163 -	170	166.21	2.18E+03	290.32	1.26E+04	1.55
	12	311.78	309 -	315	311.87	2.33E+02	203.87	7.39E+03	3.88
	13	391.99	389 -	395	392.05	4.35E+02	197.21	6.76E+03	1.39
	14	662.15	657 -	666	662.06	2.34E+04	359.85	5.11E+03	1.73
	15	778.96	775 -	782	778.82	1.22E+02	146.68	3.50E+03	2.89
	16	898.84	895 -	903	898.65	5.12E+02	189.85	5.23E+03	2.37
M	17	1174.08	1167 -	1181	1173.77	2.05E+04	299.08	1.39E+03	2.06
m	18	1178.83	1167 -	1181	1178.52	1.02E+02	251.02	1.65E+03	2.78
	19	1333.49	1327 -	1339	1333.11	1.85E+04	283.54	7.39E+02	2.23
	20	1600.85	1598 -	1604	1600.38	2.93E+01	22.56	7.35E+01	2.28
	21	1609.06	1605 -	1612	1608.58	2.83E+01	26.68	9.94E+01	2.25
	22	1837.40	1830 -	1843	1836.84	2.71E+02	55.64	2.22E+02	2.39
	23	2205.78	2201 -	2208	2205.11	2.81E+01	20.59	5.18E+01	4.19
	24	2221.86	2217 -	2225	2221.19	2.04E+01	16.05	2.73E+01	2.09
	25	2507.45	2502 -	2511	2506.70	1.83E+02	27.66	4.69E+00	3.08
	26	2615.83	2610 -	2618	2615.05	1.90E+01	8.72	0.00E+00	1.29

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/31/2015 8:29:13AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	21.95	19 -	29	1.28E+05	785.61	1.75E+04	2.17E+02
m	2	24.78	19 -	29	4.06E+04	830.80	1.29E+04	1.87E+02
	3	32.20	30 -	35	2.11E+03	273.74	1.34E+04	2.12E+02
M	4	51.15	45 -	63	1.30E+04	667.33	4.67E+04	3.55E+02
m	5	56.03	45 -	63	1.14E+04	809.25	3.73E+04	3.17E+02
m	6	59.44	45 -	63	9.32E+04	686.67	2.01E+04	2.33E+02
	7	68.09	66 -	72	9.86E+02	421.78	3.17E+04	3.43E+02
	8	87.97	83 -	92	4.63E+04	660.29	3.55E+04	4.12E+02
	9	122.11	118 -	125	1.07E+04	376.27	1.65E+04	2.59E+02
	10	136.51	134 -	139	1.11E+03	245.24	1.11E+04	1.94E+02
	11	166.04	163 -	170	2.18E+03	290.32	1.26E+04	2.26E+02
	12	311.78	309 -	315	2.33E+02	203.87	7.39E+03	1.66E+02
	13	391.99	389 -	395	4.35E+02	197.21	6.76E+03	1.58E+02
	14	662.15	657 -	666	2.34E+04	359.85	5.11E+03	1.55E+02
	15	778.96	775 -	782	1.22E+02	146.68	3.50E+03	1.19E+02
	16	898.84	895 -	903	5.12E+02	189.85	5.23E+03	1.52E+02
M	17	1174.08	1167 -	1181	2.05E+04	299.08	1.39E+03	6.14E+01
m	18	1178.83	1167 -	1181	1.02E+02	251.02	1.65E+03	6.68E+01
	19	1333.49	1327 -	1339	1.85E+04	283.54	7.39E+02	6.56E+01
	20	1600.85	1598 -	1604	2.93E+01	22.56	7.35E+01	1.63E+01
	21	1609.06	1605 -	1612	2.83E+01	26.68	9.94E+01	2.01E+01
	22	1837.40	1830 -	1843	2.71E+02	55.64	2.22E+02	3.69E+01
	23	2205.78	2201 -	2208	2.81E+01	20.59	5.18E+01	1.45E+01
	24	2221.86	2217 -	2225	2.04E+01	16.05	2.73E+01	1.09E+01
	25	2507.45	2502 -	2511	1.83E+02	27.66	4.69E+00	4.82E+00
	26	2615.83	2610 -	2618	1.90E+01	8.72	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-01

GAS-1302

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/31/2015 8:29:13AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	21.95	19 -	29	22.20	1.28E+05	785.61	1.75E+04	.....
m	2	24.78	19 -	29	25.02	4.06E+04	830.80	1.29E+04	TH-231
	3	32.20	30 -	35	32.44	2.11E+03	273.74	1.34E+04	.....
M	4	51.15	45 -	63	51.38	1.30E+04	667.33	4.67E+04	.....
m	5	56.03	45 -	63	56.26	1.14E+04	809.25	3.73E+04	.....
m	6	59.44	45 -	63	59.67	9.32E+04	686.67	2.01E+04	AM-241
	7	68.09	66 -	72	68.31	9.86E+02	421.78	3.17E+04	TI-44 TA-182 TH-230
	8	87.97	83 -	92	88.18	4.63E+04	660.29	3.55E+04	CD-109 LU-176 SN-126
	9	122.11	118 -	125	122.30	1.07E+04	376.27	1.65E+04	CO-57 EU-152 EU-154 SE-75
	10	136.51	134 -	139	136.69	1.11E+03	245.24	1.11E+04	CO-57 SE-75
	11	166.04	163 -	170	166.21	2.18E+03	290.32	1.26E+04	CE-139
	12	311.78	309 -	315	311.87	2.33E+02	203.87	7.39E+03	PA-233
	13	391.99	389 -	395	392.05	4.35E+02	197.21	6.76E+03	SN-113
	14	662.15	657 -	666	662.06	2.34E+04	359.85	5.11E+03	CS-137
	15	778.96	775 -	782	778.82	1.22E+02	146.68	3.50E+03	EU-152 MO-99
	16	898.84	895 -	903	898.65	5.12E+02	189.85	5.23E+03	Y-88
M	17	1174.08	1167 -	1181	1173.77	2.05E+04	299.08	1.39E+03	CO-60
m	18	1178.83	1167 -	1181	1178.52	1.02E+02	251.02	1.65E+03	.....
	19	1333.49	1327 -	1339	1333.11	1.85E+04	283.54	7.39E+02	CO-60
	20	1600.85	1598 -	1604	1600.38	2.93E+01	22.56	7.35E+01	.....
	21	1609.06	1605 -	1612	1608.58	2.83E+01	26.68	9.94E+01	.....
	22	1837.40	1830 -	1843	1836.84	2.71E+02	55.64	2.22E+02	.....
	23	2205.78	2201 -	2208	2205.11	2.81E+01	20.59	5.18E+01	.....
	24	2221.86	2217 -	2225	2221.19	2.04E+01	16.05	2.73E+01	.....
	25	2507.45	2502 -	2511	2506.70	1.83E+02	27.66	4.69E+00	.....
	26	2615.83	2610 -	2618	2615.05	1.90E+01	8.72	0.00E+00	.....

Analysis Report for 1507047-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/31/2015 8:29:13AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	21.95	1.28E+05	785.61	1.15E-03	1.58E-03
m	2	24.78	4.06E+04	830.80	2.16E-03	1.58E-03
	3	32.20	2.11E+03	273.74	6.17E-03	1.58E-03
M	4	51.15	1.30E+04	667.33	1.73E-02	1.58E-03
m	5	56.03	1.14E+04	809.25	1.93E-02	1.58E-03
m	6	59.44	9.32E+04	686.67	2.05E-02	1.58E-03
	7	68.09	9.86E+02	421.78	2.26E-02	1.87E-03
	8	87.97	4.63E+04	660.29	2.44E-02	2.52E-03
	9	122.11	1.07E+04	376.27	2.30E-02	1.73E-03
	10	136.51	1.11E+03	245.24	2.20E-02	1.66E-03
	11	166.04	2.18E+03	290.32	1.97E-02	1.51E-03
	12	311.78	2.33E+02	203.87	1.23E-02	9.51E-04
	13	391.99	4.35E+02	197.21	1.01E-02	8.37E-04
	14	662.15	2.34E+04	359.85	6.39E-03	5.67E-04
	15	778.96	1.22E+02	146.68	5.55E-03	4.72E-04
	16	898.84	5.12E+02	189.85	4.91E-03	3.74E-04
M	17	1174.08	2.05E+04	299.08	3.92E-03	3.23E-04
m	18	1178.83	1.02E+02	251.02	3.91E-03	3.22E-04
	19	1333.49	1.85E+04	283.54	3.54E-03	2.88E-04
	20	1600.85	2.93E+01	22.56	3.07E-03	2.48E-04
	21	1609.06	2.83E+01	26.68	3.06E-03	2.47E-04
	22	1837.40	2.71E+02	55.64	2.78E-03	2.13E-04
	23	2205.78	2.81E+01	20.59	2.46E-03	2.13E-04
	24	2221.86	2.04E+01	16.05	2.45E-03	2.13E-04
	25	2507.45	1.83E+02	27.66	2.29E-03	2.13E-04
	26	2615.83	1.90E+01	8.72	2.24E-03	2.13E-04

Analysis Report for 1507047-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/31/2015 8:29:13AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	21.95	1.28E+05	785.61	5.22E+00	6.67E+00	1.28E+05	7.86E+02
m	2	24.78	4.06E+04	830.80			4.06E+04	8.31E+02
	3	32.20	2.11E+03	273.74			2.11E+03	2.74E+02
M	4	51.15	1.30E+04	667.33			1.30E+04	6.67E+02
m	5	56.03	1.14E+04	809.25			1.14E+04	8.09E+02
m	6	59.44	9.32E+04	686.67	7.00E+00	1.49E+00	9.32E+04	6.87E+02
	7	68.09	9.86E+02	421.78			9.86E+02	4.22E+02
	8	87.97	4.63E+04	660.29	8.06E+00	2.38E+00	4.63E+04	6.60E+02
	9	122.11	1.07E+04	376.27			1.07E+04	3.76E+02
	10	136.51	1.11E+03	245.24			1.11E+03	2.45E+02
	11	166.04	2.18E+03	290.32			2.18E+03	2.90E+02
	12	311.78	2.33E+02	203.87			2.33E+02	2.04E+02
	13	391.99	4.35E+02	197.21			4.35E+02	1.97E+02
	14	662.15	2.34E+04	359.85	3.50E+00	1.39E+00	2.34E+04	3.60E+02
	15	778.96	1.22E+02	146.68			1.22E+02	1.47E+02
	16	898.84	5.12E+02	189.85			5.12E+02	1.90E+02
M	17	1174.08	2.05E+04	299.08	1.44E+00	1.22E+00	2.05E+04	2.99E+02
m	18	1178.83	1.02E+02	251.02			1.02E+02	2.51E+02
	19	1333.49	1.85E+04	283.54	1.91E+00	9.71E-01	1.85E+04	2.84E+02
	20	1600.85	2.93E+01	22.56			2.93E+01	2.26E+01
	21	1609.06	2.83E+01	26.68			2.83E+01	2.67E+01
	22	1837.40	2.71E+02	55.64	0.00E+00	0.00E+00	2.71E+02	5.56E+01
	23	2205.78	2.81E+01	20.59			2.81E+01	2.06E+01
	24	2221.86	2.04E+01	16.05			2.04E+01	1.60E+01
	25	2507.45	1.83E+02	27.66			1.83E+02	2.77E+01
	26	2615.83	1.90E+01	8.72	1.49E+00	6.34E-01	1.75E+01	8.74E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-01

GAS-1302

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/31/2015 8:29:13AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	21.95	1.28E+05	785.61	5.22E+00	6.67E+00	1.28E+05	7.86E+02
m	2	24.78	4.06E+04	830.80			4.06E+04	8.31E+02
	3	32.20	2.11E+03	273.74			2.11E+03	2.74E+02
M	4	51.15	1.30E+04	667.33			1.30E+04	6.67E+02
m	5	56.03	1.14E+04	809.25			1.14E+04	8.09E+02
m	6	59.44	9.32E+04	686.67	7.00E+00	1.49E+00	9.32E+04	6.87E+02
	7	68.09	9.86E+02	421.78			9.86E+02	4.22E+02
	8	87.97	4.63E+04	660.29	8.06E+00	2.38E+00	4.63E+04	6.60E+02
	9	122.11	1.07E+04	376.27			1.07E+04	3.76E+02
	10	136.51	1.11E+03	245.24			1.11E+03	2.45E+02
	11	166.04	2.18E+03	290.32			2.18E+03	2.90E+02
	12	311.78	2.33E+02	203.87			2.33E+02	2.04E+02
	13	391.99	4.35E+02	197.21			4.35E+02	1.97E+02
	14	662.15	2.34E+04	359.85	3.50E+00	1.39E+00	2.34E+04	3.60E+02
	15	778.96	1.22E+02	146.68			1.22E+02	1.47E+02
	16	898.84	5.12E+02	189.85			5.12E+02	1.90E+02
M	17	1174.08	2.05E+04	299.08	1.44E+00	1.22E+00	2.05E+04	2.99E+02
m	18	1178.83	1.02E+02	251.02			1.02E+02	2.51E+02
	19	1333.49	1.85E+04	283.54	1.91E+00	9.71E-01	1.85E+04	2.84E+02
	20	1600.85	2.93E+01	22.56			2.93E+01	2.26E+01
	21	1609.06	2.83E+01	26.68			2.83E+01	2.67E+01
	22	1837.40	2.71E+02	55.64	0.00E+00	0.00E+00	2.71E+02	5.56E+01
	23	2205.78	2.81E+01	20.59			2.81E+01	2.06E+01
	24	2221.86	2.04E+01	16.05			2.04E+01	1.60E+01
	25	2507.45	1.83E+02	27.66			1.83E+02	2.77E+01
	26	2615.83	1.90E+01	8.72	1.49E+00	6.34E-01	1.75E+01	8.74E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-01

GAS-1302

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.961	122.06	*	85.51	7.71E+01	6.45E+00
		136.48	*	10.60	6.83E+01	1.61E+01
CO-60	0.869	1173.22	*	100.00	1.40E+02	1.17E+01
		1332.49	*	100.00	1.40E+02	1.16E+01
CD-109	0.986	88.03	*	3.72	3.23E+03	3.88E+02
SN-113	0.748	255.12		1.93		
		391.69	*	64.90	1.32E+02	6.09E+01
SN-126	0.975	87.57	*	37.00	1.04E+02	1.09E+01
CS-137	0.962	661.65	*	85.12	9.22E+01	8.32E+00
CE-139	0.854	165.85	*	80.35	1.29E+02	1.99E+01
AM-241	0.998	59.54	*	35.90	2.59E+02	2.01E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/31/2015 8:29:13AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	21.95	7.11504E+01	0.31		
m	2	24.78	2.25409E+01	1.02	Tol.	TH-231
	3	32.20	1.17371E+00	6.48		
M	4	51.15	7.23510E+00	2.56		
m	5	56.03	6.35531E+00	3.54		
	7	68.09	5.47500E-01	21.40	Tol.	TI-44

Analysis Report for 1507047-01

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
						TA-182
						TH-230
	12	311.78	1.29181E-01	43.84	D-Esc	
	15	778.96	6.75839E-02	60.29	Tol.	MO-99
						EU-152
	16	898.84	2.84626E-01	18.53	Tol.	Y-88
m	18	1178.83	5.68460E-02	122.66		
	20	1600.85	1.62626E-02	38.54		
	21	1609.06	1.57087E-02	47.18		
	22	1837.40	1.50451E-01	10.27		
	23	2205.78	1.56121E-02	36.64		
	24	2221.86	1.13072E-02	39.42		
	25	2507.45	1.01476E-01	7.57	Sum	
	26	2615.83	9.72810E-03	24.96		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.96	122.06	*	85.51	7.71E+01	6.45E+00
		136.48	*	10.60	6.83E+01	1.61E+01
CO-60	0.86	1173.22	*	100.00	1.40E+02	1.17E+01
		1332.49	*	100.00	1.40E+02	1.16E+01
CD-109	0.98	88.03	*	3.72	3.23E+03	3.88E+02
SN-113	0.74	255.12		1.93		
		391.69	*	64.90	1.32E+02	6.09E+01
SN-126	0.97	87.57	*	37.00	1.04E+02	1.09E+01
CS-137	0.96	661.65	*	85.12	9.22E+01	8.32E+00
CE-139	0.85	165.85	*	80.35	1.29E+02	1.99E+01
AM-241	0.99	59.54	*	35.90	2.59E+02	2.01E+01

Analysis Report for 1507047-01

GAS-1302

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.961	7.59E+01	5.99E+00	
	CO-60	0.869	1.40E+02	8.27E+00	
?	CD-109	0.986	3.23E+03	3.88E+02	
	SN-113	0.748	1.32E+02	6.09E+01	
?	SN-126	0.975	1.04E+02	1.09E+01	
	CS-137	0.962	9.22E+01	8.32E+00	
	CE-139	0.854	1.29E+02	1.99E+01	
	AM-241	0.998	2.59E+02	2.01E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-01

GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/31/2015 8:29:13AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	21.95	7.11504E+01	0.31		
m	2	24.78	2.25409E+01	1.02	Tol.	TH-231
	3	32.20	1.17371E+00	6.48		
M	4	51.15	7.23510E+00	2.56		
m	5	56.03	6.35531E+00	3.54		
	7	68.09	5.47500E-01	21.40	Tol.	TI-44
						TA-182
						TH-230
	12	311.78	1.29181E-01	43.84	D-Esc	
	15	778.96	6.75839E-02	60.29	Tol.	MO-99
						EU-152
	16	898.84	2.84626E-01	18.53	Tol.	Y-88
m	18	1178.83	5.68460E-02	122.66		
	20	1600.85	1.62626E-02	38.54		
	21	1609.06	1.57087E-02	47.18		
	22	1837.40	1.50451E-01	10.27		
	23	2205.78	1.56121E-02	36.64		
	24	2221.86	1.13072E-02	39.42		
	25	2507.45	1.01476E-01	7.57	Sum	
	26	2615.83	9.72810E-03	24.96		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507047-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	6.26E+03	1.15E+05	1.15E+05
+		NA-22	1274.54		99.94	-1.70E-01	7.78E-01	7.78E-01
+	@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09		99.86	1.00E+26		1.00E+26
+		AL-26	1808.65		99.76	-9.67E-02	2.82E-01	2.82E-01
+		K-40	1460.81		10.67	1.96E+00	3.09E+00	3.09E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	8.06E-01	4.58E-01	5.04E-01
			78.34		96.00	-7.95E-02		4.58E-01
+		SC-46	889.25		99.98	-1.78E+02	4.62E+02	4.63E+02
			1120.51		99.99	6.69E+01		4.62E+02
+		V-48	983.52		99.98	-2.11E+13	9.79E+13	1.87E+14
			1312.10		97.50	-1.51E+13		9.79E+13
+		CR-51	320.08		9.83	-1.54E+08	8.87E+08	8.87E+08
+		MN-54	834.83		99.97	-5.02E-01	4.22E+00	4.22E+00
+		CO-56	846.75		99.96	-2.17E+02	4.01E+02	6.26E+02
			1037.75		14.03	3.16E+02		5.09E+03
			1238.25		67.00	2.11E+02		5.77E+02
			1771.40		15.51	-1.06E+03		1.28E+03
			2598.48		16.90	8.63E+01		4.01E+02
+		CO-57	122.06	*	85.51	7.71E+01	3.77E+00	3.77E+00
			136.48	*	10.60	6.83E+01		2.40E+01
+		CO-58	810.76		99.40	-3.19E+02	1.28E+03	1.28E+03
+		FE-59	1099.22		56.50	-2.99E+04	1.37E+05	2.24E+05
			1291.56		43.20	-1.21E+05		1.37E+05
+		CO-60	1173.22	*	100.00	1.40E+02	1.02E+00	1.94E+00
			1332.49	*	100.00	1.40E+02		1.02E+00
+		ZN-65	1115.52		50.75	1.45E+01	1.58E+01	1.58E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	4.38E+03	4.54E+01	2.51E+02
			136.00		59.20	1.45E+02		4.54E+01
			264.65		59.80	-1.56E+01		6.15E+01
			279.53		25.20	2.16E+01		1.50E+02
			400.65		11.40	-1.04E+02		3.94E+02
+		RB-82	776.52		13.00	1.89E+08	4.85E+09	4.85E+09
+		RB-83	520.41		46.00	1.63E+02	5.78E+02	5.78E+02
			529.64		30.30	-1.43E+02		8.57E+02
			552.65		16.40	5.03E+02		1.61E+03
+		KR-85	513.99		0.43	-1.31E+01	1.59E+02	1.59E+02
+		SR-85	513.99		99.27	-1.69E+02	2.05E+03	2.05E+03
+		Y-88	898.02		93.40	3.24E+02	9.34E+01	1.48E+02
			1836.01		99.38	2.95E+02		9.34E+01
+		NB-93M	16.57		9.43	2.50E+03	7.20E+02	7.20E+02
+		NB-94	702.63		100.00	-8.55E-02	6.18E-01	6.18E-01
			871.10		100.00	2.33E-01		8.26E-01

Analysis Report for 1507047-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		NB-95	765.79		99.81	-2.92E+05	2.31E+06	2.31E+06
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	2.35E+03	4.50E+03	5.57E+03
			756.72		55.30	2.38E+02		4.50E+03
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	4.07E+03	4.32E+05	4.32E+05
+		RU-106	621.84		9.80	4.28E+00	2.63E+01	2.63E+01
+		AG-108M	433.93		89.90	2.34E-01	6.72E-01	6.77E-01
			614.37		90.40	-4.21E-02		6.72E-01
			722.95		90.50	2.74E-01		7.24E-01
+		CD-109	88.03	*	3.72	3.23E+03	5.78E+01	5.78E+01
+		AG-110M	657.75		93.14	-1.08E-01	1.01E+01	1.08E+01
			677.61		10.53	1.47E+01		4.81E+01
			706.67		16.46	-5.56E+00		3.12E+01
			763.93		21.98	4.39E+00		2.56E+01
			884.67		71.63	7.28E+00		1.01E+01
			1384.27		23.94	-7.20E-01		1.01E+01
+		CD-113M	263.70		0.02	-5.40E+02	2.18E+03	2.18E+03
+		SN-113	255.12		1.93	1.74E+02	9.69E+01	2.29E+03
			391.69	*	64.90	1.32E+02		9.69E+01
+		TE123M	159.00		84.10	7.77E+00	2.98E+01	2.98E+01
+		SB-124	602.71		97.87	-1.75E+02	3.21E+03	3.85E+03
			645.85		7.26	1.12E+04		5.40E+04
			722.78		11.10	1.40E+04		3.69E+04
			1691.02		49.00	-2.79E+03		3.21E+03
+		I-125	35.49		6.49	8.64E+04	9.11E+04	9.11E+04
+		SB-125	176.33		6.89	-1.14E+00	3.41E+00	7.64E+00
			427.89		29.33	-1.76E-01		3.41E+00
			463.38		10.35	6.98E+00		1.06E+01
			600.56		17.80	2.20E+00		5.68E+00
			635.90		11.32	5.11E+00		9.33E+00
+		SB-126	414.70		83.30	-7.82E+17	1.74E+18	1.92E+18
			666.33		99.60	9.40E+16		3.79E+18
			695.00		99.60	-1.90E+17		1.74E+18
			720.50		53.80	-1.11E+18		3.35E+18
+		SN-126	87.57	*	37.00	1.04E+02	1.87E+00	1.87E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-2.84E+01	2.90E+00	2.90E+00
			33.60		13.20	2.67E+01		9.11E+00
			39.58		7.52	-3.27E+01		9.81E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26

Analysis Report for 1507047-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@		228.16		88.00	1.00E+26		1.00E+26
+		BA-133	81.00		33.00	-1.47E+00	9.80E-01	1.49E+00
			302.84		17.80	-1.45E+00		3.00E+00
			356.01		60.00	2.50E-01		9.80E-01
+	@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+	@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26
+		CS-134	563.23		8.38	4.34E+00	1.22E+00	1.38E+01
			569.32		15.43	-6.94E-01		7.50E+00
			604.70		97.60	-4.38E-01		1.22E+00
			795.84		85.40	1.71E-01		1.72E+00
			801.93		8.73	-8.60E+00		1.69E+01
+		CS-135	268.24		16.00	1.34E+00	2.88E+00	2.88E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	2.59E+17	1.84E+17	1.00E+18
			163.89		4.61	3.64E+18		1.88E+18
			176.55		13.56	-3.19E+16		5.62E+17
			273.65		12.66	-1.67E+17		8.81E+17
			340.57		48.50	-3.91E+16		2.46E+17
			818.50		99.70	9.12E+15		1.84E+17
			1048.07		79.60	4.25E+16		2.74E+17
			1235.34		19.70	1.34E+17		5.95E+17
+		CS-137	661.65	*	85.12	9.22E+01	1.23E+00	1.23E+00
+		LA-138	788.74		34.00	7.92E-01	4.65E-01	2.10E+00
			1435.80		66.00	2.63E-01		4.65E-01
+		CE-139	165.85	*	80.35	1.29E+02	2.69E+01	2.69E+01
+		BA-140	162.64		6.70	7.57E+16	1.78E+18	3.66E+18
			304.84		4.50	-2.79E+18		8.05E+18
			423.70		3.20	-8.44E+18		1.42E+19
			437.55		2.00	-1.04E+18		2.37E+19
			537.32		25.00	-1.35E+17		1.78E+18
+		LA-140	328.77		20.50	4.02E+17	2.68E+17	1.86E+18
			487.03		45.50	-6.18E+17		9.96E+17
			815.85		23.50	-7.41E+17		2.45E+18
			1596.49		95.49	1.11E+17		2.68E+17
+		CE-141	145.44		48.40	4.54E+05	6.76E+06	6.76E+06
+	@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
	@		293.26		42.00	1.00E+26		1.00E+26
	@		664.55		5.20	1.00E+26		1.00E+26
+		CE-144	133.54		10.80	-1.40E+00	1.81E+01	1.81E+01
+		PM-144	476.78		42.00	2.02E+00	2.62E+00	6.48E+00
			618.01		98.60	-1.47E-01		2.62E+00
			696.49		99.49	2.06E-02		2.65E+00
+		PM-145	36.85		21.70	1.22E+00	2.25E+00	4.17E+00
			37.36		39.70	1.45E+00		2.25E+00
			42.30		15.10	-5.83E+00		5.24E+00
			72.40		2.31	-8.05E+00		2.07E+01

Analysis Report for 1507047-01

GAS-1302

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		PM-146	453.90	39.94	6.79E-01	2.05E+00	2.05E+00
			735.90	14.01	1.43E+00		6.16E+00
			747.13	13.10	-2.07E-01		6.47E+00
+	@	ND-147	91.11	28.90	1.00E+26	1.00E+26	1.00E+26
	@		531.02	13.10	1.00E+26		1.00E+26
+	@	PM-149	285.90	3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78	20.50	5.14E+01	2.27E+00	2.82E+00
			244.69	5.40	1.46E+00		9.35E+00
			344.27	19.13	9.44E-01		2.90E+00
			778.89	9.20	6.36E+00		8.51E+00
			964.01	10.40	5.33E+00		1.03E+01
			1085.78	7.22	1.03E+00		1.40E+01
			1112.02	9.60	-4.16E+00		1.08E+01
			1407.95	14.94	1.23E+00		2.27E+00
+		GD-153	97.43	31.30	-4.84E-01	8.25E+00	8.25E+00
			103.18	22.20	1.06E+00		1.18E+01
+		EU-154	123.07	40.50	2.69E+01	1.48E+00	1.51E+00
			723.30	19.70	1.47E+00		3.88E+00
			873.19	11.50	-1.60E+00		8.44E+00
			996.32	10.30	2.55E-01		1.03E+01
			1004.76	17.90	-5.36E-01		5.87E+00
			1274.45	35.50	-3.24E-01		1.48E+00
+		EU-155	86.50	30.90	1.60E+02	1.91E+00	3.95E+00
			105.30	20.70	1.62E-01		1.91E+00
+		EU-156	811.77	10.40	-5.76E+14	6.27E+15	8.29E+15
			1153.47	7.20	5.33E+15		1.21E+16
			1230.71	8.90	-6.40E+14		6.27E+15
+		HO-166M	184.41	72.60	2.01E-01	4.71E-01	4.71E-01
			280.45	29.60	5.33E-01		1.57E+00
			410.94	11.10	-1.43E+00		5.06E+00
			711.69	54.10	-5.39E-01		1.16E+00
+		TM-171	66.72	0.14	9.66E+02	7.01E+02	7.01E+02
+		HF-172	81.75	4.52	-1.24E+01	5.73E+00	2.07E+01
			125.81	11.30	-1.08E+00		5.73E+00
+	@	LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06	16.63	1.00E+26		1.00E+26
	@		912.12	15.25	1.00E+26		1.00E+26
	@		1093.66	62.50	1.00E+26		1.00E+26
+		LU-173	100.72	5.24	4.13E-01	6.21E+00	1.61E+01
			272.11	21.20	2.77E-01		6.21E+00
+		HF-175	343.40	84.00	5.01E+02	1.10E+03	1.10E+03
+		LU-176	88.34	13.30	2.79E+02	4.88E-01	6.71E+00
			201.83	86.00	9.64E-02		4.88E-01
			306.78	94.00	-1.70E-02		5.02E-01
+		TA-182	67.75	41.20	1.80E+02	1.13E+02	1.13E+02
			1121.30	34.90	-8.27E+01		2.41E+02
			1189.05	16.23	-2.22E+02		3.77E+02
			1221.41	26.98	-5.54E+01		1.82E+02
			1231.02	11.44	-2.34E+02		4.16E+02

Analysis Report for 1507047-01

GAS-1302

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46	29.68	1.10E+02	1.68E+03	2.01E+03
		468.07	48.10	4.21E+01		1.68E+03
+	HG-203	279.19	77.30	7.52E+03	4.88E+04	4.88E+04
+	BI-207	569.67	97.72	-3.25E-01	6.10E-01	6.10E-01
		1063.62	74.90	-2.97E-01		1.23E+00
+	TL-208	583.14	30.22	1.67E-01	5.84E-01	1.96E+00
		860.37	4.48	6.23E+00		1.83E+01
		2614.66	35.85	4.49E-01		5.84E-01
+	BI-210M	262.00	45.00	-3.66E-01	1.01E+00	1.01E+00
		300.00	23.00	3.14E-01		2.04E+00
+	PB-210	46.50	4.25	-1.13E+02	1.99E+01	1.99E+01
+	PB-211	404.84	2.90	8.80E+00	1.94E+01	1.94E+01
		831.96	2.90	5.58E+00		2.66E+01
+	BI-212	727.17	11.80	-1.41E+00	5.44E+00	5.44E+00
		1620.62	2.75	2.84E+00		1.09E+01
+	PB-212	238.63	44.60	-3.55E-01	1.02E+00	1.02E+00
		300.09	3.41	2.12E+00		1.37E+01
+	BI-214	609.31	46.30	4.53E-01	1.30E+00	1.30E+00
		1120.29	15.10	8.27E-01		5.71E+00
		1764.49	15.80	8.73E-03		1.71E+00
		2204.22	4.98	3.66E+00		6.35E+00
+	PB-214	295.21	19.19	-1.60E-01	1.36E+00	2.46E+00
		351.92	37.19	1.51E-01		1.36E+00
+	RN-219	401.80	6.50	3.08E-01	8.54E+00	8.54E+00
+	RA-223	323.87	3.88	-1.54E+00	1.25E+01	1.25E+01
+	RA-224	240.98	3.95	1.31E+01	1.17E+01	1.17E+01
+	RA-225	40.00	31.00	-2.23E+16	6.68E+15	6.68E+15
+	RA-226	186.21	3.28	2.38E+00	1.05E+01	1.05E+01
+	TH-227	50.10	8.40	5.02E+01	3.99E+00	1.03E+01
		236.00	11.50	-5.35E-01		3.99E+00
		256.20	6.30	-5.31E-01		7.22E+00
+	AC-228	338.32	11.40	-7.49E-01	3.33E+00	4.32E+00
		911.07	27.70	-2.36E-01		3.33E+00
		969.11	16.60	2.63E-01		5.60E+00
+	TH-230	48.44	16.90	1.76E+01	5.15E+00	5.15E+00
		62.85	4.60	-6.84E+00		1.23E+01
		67.67	0.37	2.01E+02		1.26E+02
+	PA-231	283.67	1.60	9.53E+00	2.02E+01	2.90E+01
		302.67	2.30	-9.78E+00		2.02E+01
+	TH-231	25.64	14.70	-3.33E+01	6.90E+00	5.69E+01
		84.21	6.40	-5.48E+02		6.90E+00
+	PA-233	311.98	38.60	3.23E+08	3.78E+08	3.78E+08
+	PA-234	131.20	20.40	1.49E-01	1.45E+00	1.45E+00
		733.99	8.80	3.94E+00		7.54E+00
		946.00	12.00	2.12E+00		8.31E+00
+	PA-234M	1001.03	0.92	8.81E+01	9.94E+01	9.94E+01
+	TH-234	63.29	3.80	-8.24E+00	1.17E+01	1.17E+01

Analysis Report for 1507047-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76		10.50	9.79E-01	2.85E+00	2.85E+00
		163.35		4.70	1.47E+01		7.57E+00
		205.31		4.70	-2.21E+00		8.96E+00
+	NP-237	86.50		12.60	2.93E+02	7.24E+00	7.24E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	2.59E+02	4.05E+00	4.05E+00
+	AM-243	74.67		66.00	-8.09E-02	6.60E-01	6.60E-01
+	CM-243	209.75		3.29	-2.38E+00	3.46E+00	1.38E+01
		228.14		10.60	8.31E-01		4.57E+00
		277.60		14.00	-1.04E+00		3.46E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59	10.42	1.15E+05	1.15E+05	6.26E+03	5.71E+04
	NA-22	1274.54	99.94	7.78E-01	7.78E-01	-1.70E-01	3.76E-01
@	NA-24	1368.53	99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09	99.86	1.00E+26		1.00E+26	1.00E+20
	AL-26	1808.65	99.76	2.82E-01	2.82E-01	-9.67E-02	1.31E-01
	K-40	1460.81	10.67	3.09E+00	3.09E+00	1.96E+00	1.47E+00
@	AR-41	1293.64	99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88	94.40	5.04E-01	4.58E-01	8.06E-01	2.51E-01
		78.34	96.00	4.58E-01		-7.95E-02	2.28E-01
	SC-46	889.25	99.98	4.63E+02	4.62E+02	-1.78E+02	2.29E+02

Analysis Report for 1507047-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	4.62E+02	4.62E+02	6.69E+01	2.27E+02
	V-48	983.52		99.98	1.87E+14	9.79E+13	-2.11E+13	9.21E+13
		1312.10		97.50	9.79E+13		-1.51E+13	4.73E+13
	CR-51	320.08		9.83	8.87E+08	8.87E+08	-1.54E+08	4.39E+08
	MN-54	834.83		99.97	4.22E+00	4.22E+00	-5.02E-01	2.08E+00
	CO-56	846.75		99.96	6.26E+02	4.01E+02	-2.17E+02	3.09E+02
		1037.75		14.03	5.09E+03		3.16E+02	2.51E+03
		1238.25		67.00	5.77E+02		2.11E+02	2.80E+02
		1771.40		15.51	1.28E+03		-1.06E+03	5.91E+02
		2598.48		16.90	4.01E+02		8.63E+01	1.42E+02
+	CO-57	122.06	*	85.51	3.77E+00	3.77E+00	7.71E+01	1.87E+00
		136.48	*	10.60	2.40E+01		6.83E+01	1.19E+01
	CO-58	810.76		99.40	1.28E+03	1.28E+03	-3.19E+02	6.29E+02
	FE-59	1099.22		56.50	2.24E+05	1.37E+05	-2.99E+04	1.11E+05
		1291.56		43.20	1.37E+05		-1.21E+05	6.62E+04
+	CO-60	1173.22	*	100.00	1.94E+00	1.02E+00	1.40E+02	9.61E-01
		1332.49	*	100.00	1.02E+00		1.40E+02	4.98E-01
	ZN-65	1115.52		50.75	1.58E+01	1.58E+01	1.45E+01	7.77E+00
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	2.51E+02	4.54E+01	4.38E+03	1.25E+02
		136.00		59.20	4.54E+01		1.45E+02	2.25E+01
		264.65		59.80	6.15E+01		-1.56E+01	3.05E+01
		279.53		25.20	1.50E+02		2.16E+01	7.44E+01
		400.65		11.40	3.94E+02		-1.04E+02	1.95E+02
	RB-82	776.52		13.00	4.85E+09	4.85E+09	1.89E+08	2.39E+09
	RB-83	520.41		46.00	5.78E+02	5.78E+02	1.63E+02	2.85E+02
		529.64		30.30	8.57E+02		-1.43E+02	4.23E+02
		552.65		16.40	1.61E+03		5.03E+02	7.94E+02
	KR-85	513.99		0.43	1.59E+02	1.59E+02	-1.31E+01	7.85E+01
	SR-85	513.99		99.27	2.05E+03	2.05E+03	-1.69E+02	1.01E+03
	Y-88	898.02		93.40	1.48E+02	9.34E+01	3.24E+02	7.31E+01
		1836.01		99.38	9.34E+01		2.95E+02	4.53E+01
	NB-93M	16.57		9.43	7.20E+02	7.20E+02	2.50E+03	3.58E+02
	NB-94	702.63		100.00	6.18E-01	6.18E-01	-8.55E-02	3.04E-01
		871.10		100.00	8.26E-01		2.33E-01	4.08E-01
	NB-95	765.79		99.81	2.31E+06	2.31E+06	-2.92E+05	1.14E+06
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	5.57E+03	4.50E+03	2.35E+03	2.74E+03
		756.72		55.30	4.50E+03		2.38E+02	2.22E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	4.32E+05	4.32E+05	4.07E+03	2.13E+05
	RU-106	621.84		9.80	2.63E+01	2.63E+01	4.28E+00	1.30E+01
	AG-108M	433.93		89.90	6.77E-01	6.72E-01	2.34E-01	3.35E-01
		614.37		90.40	6.72E-01		-4.21E-02	3.32E-01
		722.95		90.50	7.24E-01		2.74E-01	3.57E-01
+	CD-109	88.03	*	3.72	5.78E+01	5.78E+01	3.23E+03	2.88E+01
	AG-110M	657.75		93.14	1.08E+01	1.01E+01	-1.08E-01	5.38E+00
		677.61		10.53	4.81E+01		1.47E+01	2.37E+01
		706.67		16.46	3.12E+01		-5.56E+00	1.54E+01

Analysis Report for 1507047-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	2.56E+01	1.01E+01	4.39E+00	1.26E+01
		884.67		71.63	1.01E+01		7.28E+00	4.96E+00
		1384.27		23.94	1.01E+01		-7.20E-01	4.75E+00
	CD-113M	263.70		0.02	2.18E+03	2.18E+03	-5.40E+02	1.08E+03
+	SN-113	255.12		1.93	2.29E+03	9.69E+01	1.74E+02	1.14E+03
		391.69	*	64.90	9.69E+01		1.32E+02	4.80E+01
	TE123M	159.00		84.10	2.98E+01	2.98E+01	7.77E+00	1.47E+01
	SB-124	602.71		97.87	3.85E+03	3.21E+03	-1.75E+02	1.90E+03
		645.85		7.26	5.40E+04		1.12E+04	2.66E+04
		722.78		11.10	3.69E+04		1.40E+04	1.82E+04
		1691.02		49.00	3.21E+03		-2.79E+03	1.48E+03
	I-125	35.49		6.49	9.11E+04	9.11E+04	8.64E+04	4.52E+04
	SB-125	176.33		6.89	7.64E+00	3.41E+00	-1.14E+00	3.78E+00
		427.89		29.33	3.41E+00		-1.76E-01	1.69E+00
		463.38		10.35	1.06E+01		6.98E+00	5.26E+00
		600.56		17.80	5.68E+00		2.20E+00	2.80E+00
		635.90		11.32	9.33E+00		5.11E+00	4.60E+00
	SB-126	414.70		83.30	1.92E+18	1.74E+18	-7.82E+17	9.52E+17
		666.33		99.60	3.79E+18		9.40E+16	1.88E+18
		695.00		99.60	1.74E+18		-1.90E+17	8.55E+17
		720.50		53.80	3.35E+18		-1.11E+18	1.65E+18
+	SN-126	87.57	*	37.00	1.87E+00	1.87E+00	1.04E+02	9.31E-01
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	2.90E+00	2.90E+00	-2.84E+01	1.44E+00
		33.60		13.20	9.11E+00		2.67E+01	4.53E+00
		39.58		7.52	9.81E+00		-3.27E+01	4.87E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	1.49E+00	9.80E-01	-1.47E+00	7.39E-01
		302.84		17.80	3.00E+00		-1.45E+00	1.48E+00
		356.01		60.00	9.80E-01		2.50E-01	4.85E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	1.38E+01	1.22E+00	4.34E+00	6.80E+00
		569.32		15.43	7.50E+00		-6.94E-01	3.70E+00
		604.70		97.60	1.22E+00		-4.38E-01	6.02E-01
		795.84		85.40	1.72E+00		1.71E-01	8.50E-01
		801.93		8.73	1.69E+01		-8.60E+00	8.35E+00
	CS-135	268.24		16.00	2.88E+00	2.88E+00	1.34E+00	1.43E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.00E+18	1.84E+17	2.59E+17	4.96E+17
		163.89		4.61	1.88E+18		3.64E+18	9.32E+17
		176.55		13.56	5.62E+17		-3.19E+16	2.78E+17
		273.65		12.66	8.81E+17		-1.67E+17	4.37E+17
		340.57		48.50	2.46E+17		-3.91E+16	1.22E+17

Analysis Report for 1507047-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	818.50		99.70	1.84E+17	1.84E+17	9.12E+15	9.06E+16
		1048.07		79.60	2.74E+17		4.25E+16	1.35E+17
		1235.34		19.70	5.95E+17		1.34E+17	2.89E+17
+	CS-137	661.65	*	85.12	1.23E+00	1.23E+00	9.22E+01	6.12E-01
	LA-138	788.74		34.00	2.10E+00	4.65E-01	7.92E-01	1.04E+00
		1435.80		66.00	4.65E-01		2.63E-01	2.20E-01
+	CE-139	165.85	*	80.35	2.69E+01	2.69E+01	1.29E+02	1.34E+01
	BA-140	162.64		6.70	3.66E+18	1.78E+18	7.57E+16	1.81E+18
		304.84		4.50	8.05E+18		-2.79E+18	3.98E+18
		423.70		3.20	1.42E+19		-8.44E+18	7.01E+18
		437.55		2.00	2.37E+19		-1.04E+18	1.17E+19
		537.32		25.00	1.78E+18		-1.35E+17	8.78E+17
	LA-140	328.77		20.50	1.86E+18	2.68E+17	4.02E+17	9.22E+17
		487.03		45.50	9.96E+17		-6.18E+17	4.92E+17
		815.85		23.50	2.45E+18		-7.41E+17	1.21E+18
		1596.49		95.49	2.68E+17		1.11E+17	1.27E+17
	CE-141	145.44		48.40	6.76E+06	6.76E+06	4.54E+05	3.35E+06
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	1.81E+01	1.81E+01	-1.40E+00	8.95E+00
	PM-144	476.78		42.00	6.48E+00	2.62E+00	2.02E+00	3.21E+00
		618.01		98.60	2.62E+00		-1.47E-01	1.29E+00
		696.49		99.49	2.65E+00		2.06E-02	1.30E+00
	PM-145	36.85		21.70	4.17E+00	2.25E+00	1.22E+00	2.07E+00
		37.36		39.70	2.25E+00		1.45E+00	1.12E+00
		42.30		15.10	5.24E+00		-5.83E+00	2.60E+00
		72.40		2.31	2.07E+01		-8.05E+00	1.03E+01
	PM-146	453.90		39.94	2.05E+00	2.05E+00	6.79E-01	1.02E+00
		735.90		14.01	6.16E+00		1.43E+00	3.04E+00
		747.13		13.10	6.47E+00		-2.07E-01	3.19E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	2.82E+00	2.27E+00	5.14E+01	1.40E+00
		244.69		5.40	9.35E+00		1.46E+00	4.63E+00
		344.27		19.13	2.90E+00		9.44E-01	1.43E+00
		778.89		9.20	8.51E+00		6.36E+00	4.20E+00
		964.01		10.40	1.03E+01		5.33E+00	5.09E+00
		1085.78		7.22	1.40E+01		1.03E+00	6.90E+00
		1112.02		9.60	1.08E+01		-4.16E+00	5.30E+00
		1407.95		14.94	2.27E+00		1.23E+00	1.07E+00
	GD-153	97.43		31.30	8.25E+00	8.25E+00	-4.84E-01	4.10E+00
		103.18		22.20	1.18E+01		1.06E+00	5.84E+00
	EU-154	123.07		40.50	1.51E+00	1.48E+00	2.69E+01	7.50E-01
		723.30		19.70	3.88E+00		1.47E+00	1.91E+00
		873.19		11.50	8.44E+00		-1.60E+00	4.17E+00
		996.32		10.30	1.03E+01		2.55E-01	5.10E+00
		1004.76		17.90	5.87E+00		-5.36E-01	2.89E+00
		1274.45		35.50	1.48E+00		-3.24E-01	7.16E-01
	EU-155	86.50		30.90	3.95E+00	1.91E+00	1.60E+02	1.97E+00
		105.30		20.70	1.91E+00		1.62E-01	9.47E-01
	EU-156	811.77		10.40	8.29E+15	6.27E+15	-5.76E+14	4.09E+15

Analysis Report for 1507047-01

GAS-1302

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
EU-156	1153.47	7.20	1.21E+16	6.27E+15	5.33E+15	5.92E+15
	1230.71	8.90	6.27E+15		-6.40E+14	3.04E+15
HO-166M	184.41	72.60	4.71E-01	4.71E-01	2.01E-01	2.33E-01
	280.45	29.60	1.57E+00		5.33E-01	7.79E-01
	410.94	11.10	5.06E+00		-1.43E+00	2.50E+00
	711.69	54.10	1.16E+00		-5.39E-01	5.71E-01
TM-171	66.72	0.14	7.01E+02	7.01E+02	9.66E+02	3.49E+02
HF-172	81.75	4.52	2.07E+01	5.73E+00	-1.24E+01	1.03E+01
	125.81	11.30	5.73E+00		-1.08E+00	2.84E+00
@ LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	810.06	16.63	1.00E+26		1.00E+26	1.00E+20
@	912.12	15.25	1.00E+26		1.00E+26	1.00E+20
@	1093.66	62.50	1.00E+26		1.00E+26	1.00E+20
LU-173	100.72	5.24	1.61E+01	6.21E+00	4.13E-01	7.98E+00
	272.11	21.20	6.21E+00		2.77E-01	3.08E+00
HF-175	343.40	84.00	1.10E+03	1.10E+03	5.01E+02	5.45E+02
LU-176	88.34	13.30	6.71E+00	4.88E-01	2.79E+02	3.35E+00
	201.83	86.00	4.88E-01		9.64E-02	2.42E-01
	306.78	94.00	5.02E-01		-1.70E-02	2.48E-01
TA-182	67.75	41.20	1.13E+02	1.13E+02	1.80E+02	5.61E+01
	1121.30	34.90	2.41E+02		-8.27E+01	1.18E+02
	1189.05	16.23	3.77E+02		-2.22E+02	1.84E+02
	1221.41	26.98	1.82E+02		-5.54E+01	8.84E+01
	1231.02	11.44	4.16E+02		-2.34E+02	2.02E+02
IR-192	308.46	29.68	2.01E+03	1.68E+03	1.10E+02	9.95E+02
	468.07	48.10	1.68E+03		4.21E+01	8.34E+02
HG-203	279.19	77.30	4.88E+04	4.88E+04	7.52E+03	2.42E+04
BI-207	569.67	97.72	6.10E-01	6.10E-01	-3.25E-01	3.01E-01
	1063.62	74.90	1.23E+00		-2.97E-01	6.06E-01
TL-208	583.14	30.22	1.96E+00	5.84E-01	1.67E-01	9.66E-01
	860.37	4.48	1.83E+01		6.23E+00	9.02E+00
	2614.66	35.85	5.84E-01		4.49E-01	2.58E-01
BI-210M	262.00	45.00	1.01E+00	1.01E+00	-3.66E-01	4.99E-01
	300.00	23.00	2.04E+00		3.14E-01	1.01E+00
PB-210	46.50	4.25	1.99E+01	1.99E+01	-1.13E+02	9.92E+00
PB-211	404.84	2.90	1.94E+01	1.94E+01	8.80E+00	9.58E+00
	831.96	2.90	2.66E+01		5.58E+00	1.31E+01
BI-212	727.17	11.80	5.44E+00	5.44E+00	-1.41E+00	2.68E+00
	1620.62	2.75	1.09E+01		2.84E+00	5.14E+00
PB-212	238.63	44.60	1.02E+00	1.02E+00	-3.55E-01	5.08E-01
	300.09	3.41	1.37E+01		2.12E+00	6.81E+00
BI-214	609.31	46.30	1.30E+00	1.30E+00	4.53E-01	6.43E-01
	1120.29	15.10	5.71E+00		8.27E-01	2.81E+00
	1764.49	15.80	1.71E+00		8.73E-03	7.94E-01
	2204.22	4.98	6.35E+00		3.66E+00	2.95E+00
PB-214	295.21	19.19	2.46E+00	1.36E+00	-1.60E-01	1.22E+00
	351.92	37.19	1.36E+00		1.51E-01	6.75E-01
RN-219	401.80	6.50	8.54E+00	8.54E+00	3.08E-01	4.23E+00
RA-223	323.87	3.88	1.25E+01	1.25E+01	-1.54E+00	6.21E+00
RA-224	240.98	3.95	1.17E+01	1.17E+01	1.31E+01	5.81E+00
RA-225	40.00	31.00	6.68E+15	6.68E+15	-2.23E+16	3.32E+15
RA-226	186.21	3.28	1.05E+01	1.05E+01	2.38E+00	5.19E+00
TH-227	50.10	8.40	1.03E+01	3.99E+00	5.02E+01	5.15E+00

Analysis Report for 1507047-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00		11.50	3.99E+00	3.99E+00	-5.35E-01	1.98E+00
		256.20		6.30	7.22E+00		-5.31E-01	3.58E+00
	AC-228	338.32		11.40	4.32E+00	3.33E+00	-7.49E-01	2.14E+00
		911.07		27.70	3.33E+00		-2.36E-01	1.64E+00
		969.11		16.60	5.60E+00		2.63E-01	2.76E+00
	TH-230	48.44		16.90	5.15E+00	5.15E+00	1.76E+01	2.56E+00
		62.85		4.60	1.23E+01		-6.84E+00	6.13E+00
		67.67		0.37	1.26E+02		2.01E+02	6.26E+01
	PA-231	283.67		1.60	2.90E+01	2.02E+01	9.53E+00	1.44E+01
		302.67		2.30	2.02E+01		-9.78E+00	1.00E+01
	TH-231	25.64		14.70	5.69E+01	6.90E+00	-3.33E+01	2.84E+01
		84.21		6.40	6.90E+00		-5.48E+02	3.43E+00
	PA-233	311.98		38.60	3.78E+08	3.78E+08	3.23E+08	1.87E+08
	PA-234	131.20		20.40	1.45E+00	1.45E+00	1.49E-01	7.17E-01
		733.99		8.80	7.54E+00		3.94E+00	3.71E+00
		946.00		12.00	8.31E+00		2.12E+00	4.10E+00
	PA-234M	1001.03		0.92	9.94E+01	9.94E+01	8.81E+01	4.90E+01
	TH-234	63.29		3.80	1.17E+01	1.17E+01	-8.24E+00	5.83E+00
	U-235	143.76		10.50	2.85E+00	2.85E+00	9.79E-01	1.41E+00
		163.35		4.70	7.57E+00		1.47E+01	3.76E+00
		205.31		4.70	8.96E+00		-2.21E+00	4.45E+00
	NP-237	86.50		12.60	7.24E+00	7.24E+00	2.93E+02	3.61E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	4.05E+00	4.05E+00	2.59E+02	2.02E+00
	AM-243	74.67		66.00	6.60E-01	6.60E-01	-8.09E-02	3.28E-01
	CM-243	209.75		3.29	1.38E+01	3.46E+00	-2.38E+00	6.85E+00
		228.14		10.60	4.57E+00		8.31E-01	2.27E+00
		277.60		14.00	3.46E+00		-1.04E+00	1.72E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-01

GAS-1302

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1852

Channel								
1:	0	0	0	0	0	0	0	0
9:	359	1944	3751	7653	4655	2505	3053	2227
17:	2176	2737	1874	3236	15551	77804	38236	9081
25:	25596	11456	2238	1143	1041	995	1202	2246
33:	1925	1341	1099	1276	1399	1342	1282	1416
41:	1426	1633	1889	2095	2220	2404	2819	3549
49:	4648	5333	5068	5011	4929	4896	5106	5640
57:	5776	6766	31737	52404	8400	1939	1921	1953
65:	2073	2268	2468	2532	2433	2402	2380	2370
73:	2308	2309	2274	2295	2417	2313	2296	2286
81:	2338	2362	2416	2574	2657	2652	5908	27962
89:	15442	1929	1192	1276	1144	1109	1101	1100
97:	1108	1055	1156	1102	1089	1132	1081	1147
105:	1111	1068	1112	1070	1109	1101	1114	1106
113:	1064	1109	1074	1174	1134	1071	1107	1139
121:	1877	6840	4694	1241	922	999	982	924
129:	911	979	989	916	957	914	961	1273
137:	1660	968	903	940	862	925	865	900
145:	895	894	857	856	864	864	847	931
153:	918	841	865	871	858	869	793	830
161:	851	786	805	828	1067	1993	1326	836
169:	816	801	758	792	805	737	754	801
177:	768	764	765	748	803	763	870	810
185:	888	865	870	858	880	846	880	875
193:	860	890	891	900	799	835	850	803
201:	837	795	775	863	808	792	813	789
209:	783	848	792	880	845	863	844	900
217:	867	822	874	891	861	818	835	864
225:	882	796	813	845	812	828	791	821
233:	757	816	820	700	737	758	834	776
241:	749	734	781	694	718	677	672	735
249:	684	654	681	707	641	648	738	651
257:	654	670	679	662	649	618	625	603
265:	633	655	644	616	630	623	641	605
273:	622	611	597	603	610	639	595	583
281:	587	622	606	584	615	532	581	575
289:	556	607	560	580	593	534	563	574
297:	575	566	546	581	513	511	535	529
305:	511	527	563	526	521	559	607	594
313:	535	573	540	523	499	554	514	541
321:	494	512	505	530	507	568	518	522
329:	521	514	510	491	526	488	514	485
337:	492	481	478	495	500	495	491	472
345:	513	482	482	460	483	482	460	506
353:	508	514	468	502	487	445	505	478
361:	477	526	521	490	497	496	474	502

369:	490	529	485	478	476	447	489	495

Sample Title: GAS-1302

Channel								
377:	440	454	484	476	479	491	525	459
385:	464	468	462	495	461	445	561	809
393:	587	478	474	499	469	448	470	458
401:	438	486	496	448	473	458	484	454
409:	445	471	473	457	460	444	464	469
417:	457	484	477	487	487	436	503	469
425:	463	478	467	510	499	466	465	453
433:	499	464	468	515	493	461	446	505
441:	528	493	499	470	481	475	484	498
449:	483	500	477	543	470	461	498	518
457:	464	456	477	488	517	513	494	510
465:	499	508	480	493	519	495	519	485
473:	515	491	522	440	445	424	439	440
481:	401	413	387	337	398	357	393	401
489:	375	342	356	420	336	374	351	369
497:	410	319	390	326	349	353	341	328
505:	333	357	357	341	355	369	408	401
513:	362	344	331	350	304	351	366	305
521:	349	343	322	306	321	314	284	318
529:	318	300	318	321	305	328	296	287
537:	329	277	298	276	313	272	295	311
545:	272	316	290	279	314	308	298	289
553:	303	292	287	293	269	288	267	262
561:	270	268	277	281	269	298	250	263
569:	251	278	281	277	268	278	285	255
577:	253	283	240	256	279	278	294	290
585:	266	267	282	282	251	258	270	254
593:	260	266	275	251	260	254	302	274
601:	276	261	260	259	250	270	248	265
609:	261	269	287	254	270	240	262	235
617:	266	249	267	276	268	282	253	277
625:	253	277	258	246	264	249	263	246
633:	269	269	253	258	284	263	269	259
641:	236	246	265	220	264	268	239	276
649:	240	248	256	280	266	258	273	263
657:	277	268	300	588	4823	12514	5966	734
665:	265	250	232	240	235	208	231	218
673:	212	234	211	241	228	219	238	238
681:	224	198	238	238	225	235	225	212
689:	225	209	222	215	249	208	232	200
697:	226	189	231	215	224	237	207	197
705:	210	225	230	225	210	230	231	216
713:	214	228	194	240	223	215	224	219
721:	209	241	216	242	237	224	219	210
729:	212	197	229	223	238	240	205	235
737:	250	226	228	231	219	209	219	213
745:	224	212	220	221	203	231	235	209
753:	201	208	223	245	212	218	222	213
761:	239	219	244	235	208	214	250	222
769:	240	226	249	215	223	226	222	212
777:	254	236	265	228	238	216	213	204
785:	251	245	202	253	240	236	228	257
793:	222	231	230	258	253	261	258	227

801:	256	224	232	273	238	232	286	236

Sample Title: GAS-1302

Channel								
809:	250	261	242	242	242	247	249	247
817:	235	224	265	260	261	256	243	258
825:	267	233	235	246	222	253	261	250
833:	273	233	282	253	253	267	264	268
841:	272	234	271	274	233	225	254	253
849:	254	256	265	265	260	251	282	240
857:	256	266	244	285	258	290	282	256
865:	258	233	275	277	268	275	263	261
873:	287	245	271	257	263	277	303	252
881:	307	261	303	275	329	278	294	258
889:	272	298	280	302	281	297	282	294
897:	349	492	487	366	278	312	268	315
905:	272	301	320	301	300	329	322	327
913:	294	297	306	321	325	299	293	337
921:	317	296	315	322	310	339	290	314
929:	336	338	287	321	309	352	306	331
937:	354	347	312	342	322	337	322	340
945:	335	341	361	333	347	360	306	320
953:	367	360	335	323	331	343	321	296
961:	358	308	305	303	293	311	273	282
969:	276	308	267	263	277	262	234	223
977:	248	251	246	235	229	255	234	272
985:	240	268	232	273	260	243	253	232
993:	257	252	267	234	253	251	274	271
1001:	257	268	230	263	230	223	255	242
1009:	217	252	222	246	192	231	230	250
1017:	233	242	254	244	222	239	222	242
1025:	225	245	233	225	239	234	254	241
1033:	240	210	251	244	202	221	230	241
1041:	218	230	230	235	235	252	249	226
1049:	213	223	216	198	246	239	222	231
1057:	215	221	224	206	218	231	214	221
1065:	211	222	239	211	233	213	203	221
1073:	253	211	217	226	247	233	254	237
1081:	235	216	192	239	211	200	250	239
1089:	230	200	235	224	239	240	225	253
1097:	240	216	232	240	245	236	252	243
1105:	245	206	257	255	227	221	210	221
1113:	221	239	228	214	221	206	200	167
1121:	168	181	182	156	167	169	145	159
1129:	140	185	153	158	158	154	130	143
1137:	135	131	124	135	133	131	132	129
1145:	130	110	140	143	129	127	134	147
1153:	122	144	142	146	114	130	123	133
1161:	127	138	123	144	123	139	126	136
1169:	148	135	218	1306	6499	9246	3524	514
1177:	147	121	131	94	100	104	88	102
1185:	92	98	95	91	74	79	82	79
1193:	92	96	93	85	74	63	67	73
1201:	93	67	73	72	88	76	77	70
1209:	63	73	56	56	55	81	66	57
1217:	74	51	50	54	57	46	52	55
1225:	56	42	54	52	48	44	50	50

1233:	50	43	62	59	39	42	55	37

Sample Title: GAS-1302

Channel								
1241:	47	46	39	50	42	32	30	34
1249:	40	41	47	40	31	35	31	41
1257:	35	33	28	38	31	31	27	38
1265:	22	30	33	30	33	25	24	40
1273:	33	28	25	34	34	35	32	36
1281:	27	28	35	46	39	38	28	30
1289:	34	33	30	23	26	32	31	35
1297:	38	41	31	34	25	32	32	27
1305:	30	28	28	33	28	29	31	26
1313:	36	27	35	25	34	34	37	39
1321:	31	38	32	39	33	45	32	40
1329:	49	77	594	3982	7980	4958	924	113
1337:	51	48	26	13	19	13	17	15
1345:	9	23	13	20	14	21	12	18
1353:	17	13	11	15	15	9	10	11
1361:	14	10	14	10	10	24	13	13
1369:	8	11	10	17	10	17	7	13
1377:	8	16	10	18	8	14	10	13
1385:	7	10	12	8	6	15	13	14
1393:	15	12	16	15	14	11	16	7
1401:	10	11	7	10	12	7	14	9
1409:	18	14	13	9	11	6	12	14
1417:	17	9	13	12	6	11	16	15
1425:	5	12	13	8	9	5	17	8
1433:	15	6	10	12	12	10	14	11
1441:	8	7	10	13	16	9	14	11
1449:	7	14	8	9	8	12	10	12
1457:	15	12	9	15	11	20	11	13
1465:	8	8	12	8	9	12	7	12
1473:	7	12	14	13	14	15	11	13
1481:	11	8	8	13	10	7	8	5
1489:	11	11	5	12	6	8	12	10
1497:	5	12	12	11	13	13	9	7
1505:	7	14	10	9	7	15	19	14
1513:	8	6	12	12	8	13	14	7
1521:	12	12	6	10	6	6	10	16
1529:	7	9	9	11	15	10	9	17
1537:	7	6	9	9	7	12	17	7
1545:	13	13	11	8	13	10	10	13
1553:	11	11	11	11	12	9	13	16
1561:	5	11	10	10	14	8	11	10
1569:	9	12	8	11	8	10	13	13
1577:	7	10	9	13	12	9	10	9
1585:	12	9	10	11	12	9	10	8
1593:	20	12	14	14	4	3	13	15
1601:	10	11	8	6	7	9	9	13
1609:	16	10	9	5	7	8	6	10
1617:	7	5	10	14	6	14	10	6
1625:	12	5	4	8	7	6	5	5
1633:	7	8	8	4	8	8	5	6
1641:	12	7	9	9	5	7	2	7
1649:	10	7	4	10	4	6	5	7
1657:	9	7	7	5	4	6	7	5

1665:	2	6	4	11	7	6	10	7

Sample Title: GAS-1302

Channel								
1673:	11	9	7	5	10	9	6	4
1681:	6	12	6	8	9	8	6	5
1689:	2	2	5	3	16	7	5	12
1697:	11	7	7	7	7	8	5	13
1705:	8	7	9	10	9	3	3	11
1713:	4	7	9	10	8	7	7	9
1721:	12	7	5	10	6	4	8	6
1729:	12	6	6	8	2	3	1	7
1737:	3	4	5	3	4	8	11	6
1745:	5	8	5	4	5	8	5	4
1753:	9	3	8	7	5	10	5	2
1761:	7	6	6	5	13	10	6	2
1769:	10	5	3	2	7	8	4	8
1777:	5	10	11	6	4	5	5	5
1785:	3	5	2	5	2	8	4	4
1793:	1	4	5	7	4	10	6	3
1801:	8	10	7	6	7	10	4	11
1809:	3	8	5	6	8	10	6	8
1817:	3	3	6	5	7	9	4	5
1825:	3	8	4	11	10	8	8	7
1833:	10	7	29	85	124	69	15	7
1841:	3	4	6	8	4	9	5	5
1849:	8	6	5	4	7	3	6	5
1857:	6	6	7	8	2	6	4	6
1865:	3	7	7	7	4	3	4	1
1873:	4	6	3	7	3	5	1	3
1881:	11	2	3	6	6	8	3	5
1889:	3	6	5	3	6	5	4	3
1897:	6	1	4	5	4	3	4	8
1905:	5	6	6	3	6	4	10	5
1913:	5	1	5	4	6	4	6	4
1921:	3	6	2	7	7	7	2	5
1929:	4	6	4	1	6	3	5	3
1937:	4	5	7	6	2	6	5	3
1945:	7	4	2	8	4	5	4	6
1953:	1	3	1	8	6	3	4	4
1961:	5	2	4	7	4	3	7	4
1969:	5	3	4	2	5	7	4	2
1977:	8	5	1	6	5	0	7	7
1985:	3	3	6	2	3	5	6	9
1993:	8	7	6	7	2	2	5	5
2001:	3	6	5	6	8	3	6	4
2009:	6	6	2	8	1	6	4	8
2017:	6	3	7	6	5	13	8	5
2025:	2	4	7	6	3	3	4	3
2033:	4	6	2	5	3	5	6	4
2041:	3	7	3	4	3	3	8	4
2049:	5	5	5	5	5	9	7	5
2057:	6	2	5	12	4	3	4	7
2065:	6	7	4	2	6	6	5	3
2073:	3	2	2	5	5	1	0	2
2081:	2	9	4	1	1	3	5	3
2089:	6	7	3	4	2	5	2	3

2097:	2	2	2	4	4	3	2	6

Sample Title: GAS-1302

Channel								
2105:	9	5	3	2	4	1	2	4
2113:	2	3	0	4	5	0	3	6
2121:	1	5	2	4	3	6	3	5
2129:	6	4	3	5	4	3	3	4
2137:	2	4	3	2	4	4	4	3
2145:	5	2	3	3	2	3	2	4
2153:	4	3	3	5	2	4	2	3
2161:	1	1	2	5	2	2	3	6
2169:	4	3	2	5	4	2	10	6
2177:	2	1	5	2	3	6	4	4
2185:	4	1	1	6	2	5	5	4
2193:	0	2	5	2	3	1	7	4
2201:	3	5	6	10	8	9	10	3
2209:	3	5	5	3	4	2	3	1
2217:	1	3	4	2	5	9	6	2
2225:	2	2	4	3	6	4	1	2
2233:	3	5	6	3	2	7	3	4
2241:	3	5	3	5	2	1	8	6
2249:	6	5	5	4	7	3	5	2
2257:	5	1	1	7	4	3	2	8
2265:	6	3	5	2	4	3	3	5
2273:	4	3	4	5	4	5	4	8
2281:	2	7	7	2	6	5	2	5
2289:	5	5	5	3	4	8	5	0
2297:	1	5	4	6	2	1	1	2
2305:	2	0	3	6	2	3	2	2
2313:	2	1	3	2	4	1	2	1
2321:	3	2	5	1	3	1	2	1
2329:	2	3	2	4	1	6	3	3
2337:	6	0	0	0	4	5	2	3
2345:	1	3	3	2	2	0	3	4
2353:	2	1	2	0	1	2	2	1
2361:	1	1	2	3	1	1	4	0
2369:	3	0	1	0	2	1	4	0
2377:	0	1	0	1	3	1	1	1
2385:	2	1	1	3	1	2	2	0
2393:	1	1	0	0	1	2	0	2
2401:	0	1	0	0	2	3	0	0
2409:	1	0	0	2	0	3	1	1
2417:	2	0	1	1	0	1	0	0
2425:	0	3	0	1	0	0	0	0
2433:	2	0	1	1	1	0	1	0
2441:	0	0	0	1	1	1	0	1
2449:	2	1	1	3	1	1	0	1
2457:	0	0	1	1	2	1	0	0
2465:	2	0	0	0	0	2	2	1
2473:	1	0	0	0	1	1	0	1
2481:	0	1	0	1	1	1	0	0
2489:	0	1	0	0	1	2	0	1
2497:	1	0	0	2	1	0	0	5
2505:	28	48	58	33	11	2	0	0
2513:	1	1	1	0	0	0	0	0
2521:	1	1	0	0	0	0	0	1

2529:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
2537:	0	0	0	3	0	0	0	0
2545:	0	0	1	0	0	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	0	0	0	0	0	0	0
2569:	1	0	0	0	0	1	0	0
2577:	0	0	0	0	0	0	0	0
2585:	0	0	0	1	0	1	0	0
2593:	0	0	0	0	0	0	0	0
2601:	1	1	0	0	0	1	0	0
2609:	0	0	1	0	3	2	2	9
2617:	2	0	0	1	0	0	0	0
2625:	0	0	1	0	0	1	0	1
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	1	0	0
2657:	0	0	0	0	0	0	0	0
2665:	0	0	0	1	0	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	0	0	0	0	0	0	0	1
2689:	1	0	0	0	0	0	0	1
2697:	0	0	0	0	0	0	0	0
2705:	0	1	0	0	0	0	0	0
2713:	0	1	0	0	0	0	0	0
2721:	0	0	0	0	2	0	0	0
2729:	0	1	0	0	0	1	0	1
2737:	1	1	0	0	0	0	0	0
2745:	0	0	0	0	0	1	0	0
2753:	0	0	0	0	0	0	2	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	1	0	1
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	0	0	1	0	0
2873:	0	0	0	0	0	0	0	0
2881:	1	0	0	0	1	0	0	0
2889:	0	0	0	0	0	0	0	1
2897:	0	1	0	0	0	0	0	0
2905:	0	1	0	0	0	1	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	1	0	0	0
2937:	0	0	0	0	0	0	0	2
2945:	0	0	0	0	0	0	0	1
2953:	0	1	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	1	0	0	1	0	0	1
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	1	0
3009:	0	0	0	1	1	0	0	1
3017:	0	0	0	0	1	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	1	0	0
3041:	0	0	0	1	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	1	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	1	0	0	0	0	0	0	0
3089:	0	0	0	0	1	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	1	0	0	0	0	0	0
3113:	0	0	0	1	0	0	0	0
3121:	0	0	0	0	1	0	0	0
3129:	1	0	0	0	0	0	0	0
3137:	1	0	0	0	0	0	0	0
3145:	0	0	0	1	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	1	0	0	0	0	0	0	0
3177:	0	0	0	0	0	1	0	0
3185:	0	0	0	0	0	1	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	1	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	1	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	1	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	1	0	0	0	0	0	1
3345:	1	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	1	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

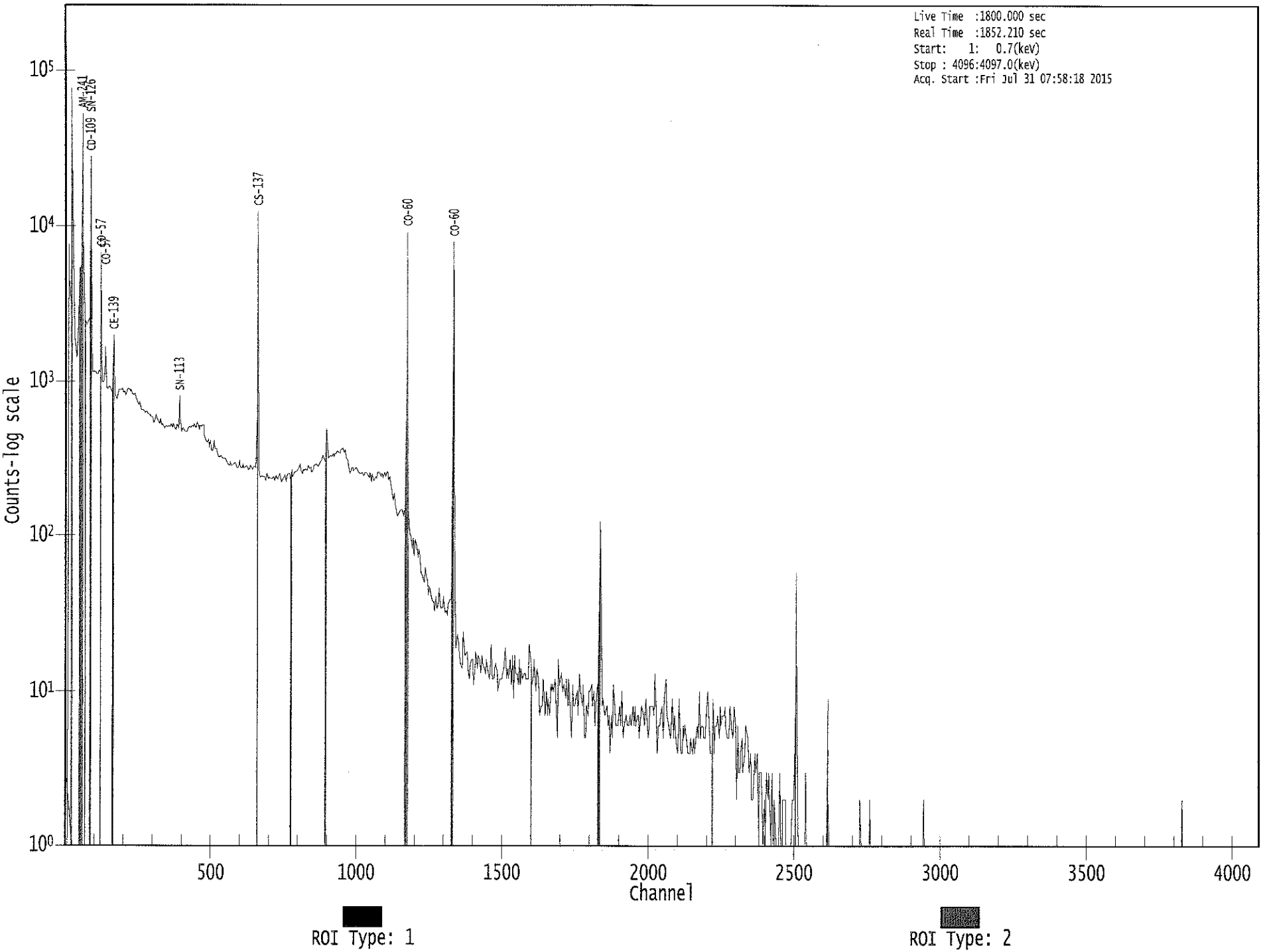
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	1
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	1	0	0
3441:	1	0	0	0	0	0	0	1
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	0	0	1	0	0
3481:	0	0	0	0	0	0	0	0
3489:	1	0	0	0	0	0	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	1	0	0	0
3529:	0	0	0	1	0	0	1	0
3537:	0	0	1	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	1	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	1	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	1	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	1	0	0	0	0
3657:	0	0	0	0	0	0	1	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	1	0	1	0	0
3697:	1	0	0	0	0	0	0	0
3705:	0	0	0	0	1	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	1
3729:	0	0	0	0	0	0	0	1
3737:	0	0	0	1	0	0	0	0
3745:	0	1	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	1	0	0	0	0
3793:	0	0	1	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	2	0	0	0	0

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	1	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	1	0
3977:	0	0	0	0	0	1	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	1	0	0	0
4009:	0	1	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	1	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	1	0

0000025409.CNF



Apex-Gamma

Analysis Report for 1507047-02
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7/31

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 7/31/2015 7:50:20AM
Acquisition Started	: 7/31/2015 7:58:25AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.3 seconds
Dead Time	: 0.04 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 25410

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

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8/3/15

Analysis Report for 1507047-02

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PEAK LOCATE REPORT

Peak Locate Performed on : 7/31/2015 8:58:28AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	200.81	200.13	0.0000	0.00
2	208.09	207.41	0.0000	0.00
3	321.49	320.86	0.0000	0.00
4	419.24	418.65	0.0000	0.00
5	608.85	608.35	0.0000	0.00
6	634.55	634.07	0.0000	0.00
7	800.40	800.00	0.0000	0.00
8	816.20	815.81	0.0000	0.00
9	952.39	952.07	0.0000	0.00
10	973.39	973.09	0.0000	0.00
11	1015.42	1015.14	0.0000	0.00
12	1201.38	1201.20	0.0000	0.00
13	1459.53	1459.50	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-02

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PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/31/2015 8:58:28AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
1	200.81	196 -	204	200.13	2.81E+01	30.45	1.24E+02	4.92
2	208.09	205 -	211	207.41	2.68E+01	25.51	1.00E+02	2.38
3	321.49	314 -	327	320.86	4.10E+01	30.33	8.40E+01	9.62
4	419.24	416 -	421	418.65	1.06E+01	11.96	1.88E+01	2.66
5	608.85	604 -	614	608.35	2.18E+01	13.13	1.25E+01	4.65
6	634.55	629 -	640	634.07	1.78E+01	17.66	3.04E+01	7.76
7	800.40	797 -	802	800.00	7.50E+00	7.62	5.00E+00	1.13
8	816.20	812 -	818	815.81	9.14E+00	7.50	3.73E+00	3.65
9	952.39	949 -	954	952.07	8.55E+00	7.00	2.90E+00	2.74
10	973.39	971 -	976	973.09	7.08E+00	8.66	9.83E+00	1.36
11	1015.42	1011 -	1018	1015.14	8.33E+00	8.94	7.33E+00	5.64
12	1201.38	1197 -	1204	1201.20	5.00E+00	4.47	0.00E+00	1.16
13	1459.53	1454 -	1463	1459.50	1.00E+01	6.32	0.00E+00	1.98

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 7/31/2015 8:58:28AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	200.81	196 -	204	2.81E+01	30.45	1.24E+02	2.35E+01
2	208.09	205 -	211	2.68E+01	25.51	1.00E+02	1.92E+01

Analysis Report for 1507047-02

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Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
3	321.49	314 -	327	4.10E+01	30.33	8.40E+01	2.26E+01
4	419.24	416 -	421	1.06E+01	11.96	1.88E+01	8.24E+00
5	608.85	604 -	614	2.18E+01	13.13	1.25E+01	7.60E+00
6	634.55	629 -	640	1.78E+01	17.66	3.04E+01	1.28E+01
7	800.40	797 -	802	7.50E+00	7.62	5.00E+00	4.35E+00
8	816.20	812 -	818	9.14E+00	7.50	3.73E+00	3.65E+00
9	952.39	949 -	954	8.55E+00	7.00	2.90E+00	3.16E+00
10	973.39	971 -	976	7.08E+00	8.66	9.83E+00	5.62E+00
11	1015.42	1011 -	1018	8.33E+00	8.94	7.33E+00	5.62E+00
12	1201.38	1197 -	1204	5.00E+00	4.47	0.00E+00	0.00E+00
13	1459.53	1454 -	1463	1.00E+01	6.32	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 7/31/2015 8:58:28AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	200.81	196 -	204	200.13	2.81E+01	30.45	1.24E+02	.....
2	208.09	205 -	211	207.41	2.68E+01	25.51	1.00E+02	GA-67
3	321.49	314 -	327	320.86	4.10E+01	30.33	8.40E+01	.....
4	419.24	416 -	421	418.65	1.06E+01	11.96	1.88E+01	.....
5	608.85	604 -	614	608.35	2.18E+01	13.13	1.25E+01	BI-214
6	634.55	629 -	640	634.07	1.78E+01	17.66	3.04E+01	.....
7	800.40	797 -	802	800.00	7.50E+00	7.62	5.00E+00	.....
8	816.20	812 -	818	815.81	9.14E+00	7.50	3.73E+00	LA-140
9	952.39	949 -	954	952.07	8.55E+00	7.00	2.90E+00	.....
10	973.39	971 -	976	973.09	7.08E+00	8.66	9.83E+00	.....
11	1015.42	1011 -	1018	1015.14	8.33E+00	8.94	7.33E+00	.....
12	1201.38	1197 -	1204	1201.20	5.00E+00	4.47	0.00E+00	.....
13	1459.53	1454 -	1463	1459.50	1.00E+01	6.32	0.00E+00	.....

Analysis Report for 1507047-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 7/31/2015 8:58:28AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	200.81	2.81E+01	30.45	1.09E-02	1.10E-03
2	208.09	2.68E+01	25.51	1.06E-02	1.08E-03
3	321.49	4.10E+01	30.33	7.19E-03	8.14E-04
4	419.24	1.06E+01	11.96	5.59E-03	6.96E-04
5	608.85	2.18E+01	13.13	3.88E-03	4.18E-04
6	634.55	1.78E+01	17.66	3.72E-03	3.80E-04
7	800.40	7.50E+00	7.62	2.96E-03	2.63E-04
8	816.20	9.14E+00	7.50	2.91E-03	2.54E-04
9	952.39	8.55E+00	7.00	2.50E-03	2.01E-04
10	973.39	7.08E+00	8.66	2.45E-03	1.98E-04
11	1015.42	8.33E+00	8.94	2.35E-03	1.93E-04
12	1201.38	5.00E+00	4.47	2.01E-03	1.80E-04
13	1459.53	1.00E+01	6.32	1.69E-03	1.89E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 7/31/2015 8:58:28AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Analysis Report for 1507047-02

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Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	200.81	2.81E+01	30.45			2.81E+01	3.04E+01
2	208.09	2.68E+01	25.51			2.68E+01	2.55E+01
3	321.49	4.10E+01	30.33			4.10E+01	3.03E+01
4	419.24	1.06E+01	11.96			1.06E+01	1.20E+01
5	608.85	2.18E+01	13.13			2.18E+01	1.31E+01
6	634.55	1.78E+01	17.66			1.78E+01	1.77E+01
7	800.40	7.50E+00	7.62			7.50E+00	7.62E+00
8	816.20	9.14E+00	7.50			9.14E+00	7.50E+00
9	952.39	8.55E+00	7.00			8.55E+00	7.00E+00
10	973.39	7.08E+00	8.66			7.08E+00	8.66E+00
11	1015.42	8.33E+00	8.94	3.49E-01	1.74E+00	7.98E+00	9.11E+00
12	1201.38	5.00E+00	4.47			5.00E+00	4.47E+00
13	1459.53	1.00E+01	6.32			1.00E+01	6.32E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 7/31/2015 8:58:28AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	200.81	2.81E+01	30.45			2.81E+01	3.04E+01
2	208.09	2.68E+01	25.51			2.68E+01	2.55E+01
3	321.49	4.10E+01	30.33			4.10E+01	3.03E+01
4	419.24	1.06E+01	11.96			1.06E+01	1.20E+01
5	608.85	2.18E+01	13.13			2.18E+01	1.31E+01
6	634.55	1.78E+01	17.66			1.78E+01	1.77E+01
7	800.40	7.50E+00	7.62			7.50E+00	7.62E+00
8	816.20	9.14E+00	7.50			9.14E+00	7.50E+00
9	952.39	8.55E+00	7.00			8.55E+00	7.00E+00
10	973.39	7.08E+00	8.66			7.08E+00	8.66E+00
11	1015.42	8.33E+00	8.94	3.49E-01	1.74E+00	7.98E+00	9.11E+00
12	1201.38	5.00E+00	4.47			5.00E+00	4.47E+00
13	1459.53	1.00E+01	6.32			1.00E+01	6.32E+00

Analysis Report for 1507047-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.440	609.31	*	46.30	1.16E-01	7.12E-02
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/31/2015 8:58:28AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	200.81	7.79630E-03	54.24		
2	208.09	7.44228E-03	47.62	Tol.	GA-67
3	321.49	1.13889E-02	36.99		
4	419.24	2.95139E-03	56.27		
6	634.55	4.94949E-03	49.57		
7	800.40	2.08333E-03	50.77		

Analysis Report for 1507047-02

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
8	816.20	2.53788E-03	41.04	Tol.	LA-140
9	952.39	2.37500E-03	40.94		
10	973.39	1.96759E-03	61.13		
11	1015.42	2.21778E-03	57.06		
12	1201.38	1.38889E-03	44.72		
13	1459.53	2.77778E-03	31.62		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.44	609.31	*	46.30	1.16E-01	7.12E-02
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1507047-02

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
BI-214	0.440	1.16E-01	7.12E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 7/31/2015 8:58:28AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	200.81	7.79630E-03	54.24		
2	208.09	7.44228E-03	47.62	Tol.	GA-67
3	321.49	1.13889E-02	36.99		
4	419.24	2.95139E-03	56.27		
6	634.55	4.94949E-03	49.57		
7	800.40	2.08333E-03	50.77		
8	816.20	2.53788E-03	41.04	Tol.	LA-140
9	952.39	2.37500E-03	40.94		
10	973.39	1.96759E-03	61.13		
11	1015.42	2.21778E-03	57.06		
12	1201.38	1.38889E-03	44.72		
13	1459.53	2.77778E-03	31.62		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	9.76E-02	4.58E-01	4.58E-01
+	NA-22	1274.54	99.94	-2.69E-03	6.61E-02	6.61E-02
+	NA-24	1368.53	99.99	-9.83E-03	7.01E-02	7.80E-02
		2754.09	99.86	-3.18E-03		7.01E-02
+	AL-26	1808.65	99.76	2.28E-02	1.03E-01	1.03E-01

Analysis Report for 1507047-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	K-40	1460.81	10.67	0.00E+00	8.46E-01	8.46E-01
+	AR-41	1293.64	99.16	2.32E-02	1.09E-01	1.09E-01
+	TI-44	67.88	94.40	-1.74E-02	2.64E-02	2.64E-02
		78.34	96.00	-5.47E-03		2.86E-02
+	SC-46	889.25	99.98	5.38E-03	6.72E-02	6.75E-02
		1120.51	99.99	-8.94E-03		6.72E-02
+	V-48	983.52	99.98	3.96E-03	5.58E-02	5.58E-02
		1312.10	97.50	4.25E-02		8.42E-02
+	CR-51	320.08	9.83	8.94E-02	4.98E-01	4.98E-01
+	MN-54	834.83	99.97	2.83E-02	7.75E-02	7.75E-02
+	CO-56	846.75	99.96	-1.44E-03	7.09E-02	7.09E-02
		1037.75	14.03	-5.93E-02		5.16E-01
		1238.25	67.00	9.49E-03		1.22E-01
		1771.40	15.51	-5.76E-02		5.19E-01
		2598.48	16.90	1.58E-01		5.67E-01
+	CO-57	122.06	85.51	-3.61E-03	3.43E-02	3.43E-02
		136.48	10.60	2.63E-02		2.83E-01
+	CO-58	810.76	99.40	0.00E+00	5.49E-02	5.49E-02
+	FE-59	1099.22	56.50	-1.56E-02	1.23E-01	1.23E-01
		1291.56	43.20	3.07E-02		2.06E-01
+	CO-60	1173.22	100.00	5.13E-02	7.87E-02	9.39E-02
		1332.49	100.00	2.70E-02		7.87E-02
+	ZN-65	1115.52	50.75	2.63E-02	1.46E-01	1.46E-01
+	GA-67	93.31	35.70	6.37E-02	8.61E-02	8.61E-02
		208.95	2.24	-1.63E-01		1.90E+00
		300.22	16.00	-2.69E-02		3.07E-01
+	SE-75	121.11	16.70	2.08E-02	5.24E-02	1.80E-01
		136.00	59.20	2.45E-02		5.24E-02
		264.65	59.80	-2.79E-02		6.45E-02
		279.53	25.20	-5.33E-02		1.69E-01
		400.65	11.40	7.21E-02		4.18E-01
+	RB-82	776.52	13.00	-1.69E-01	4.39E-01	4.39E-01
+	RB-83	520.41	46.00	-3.89E-03	1.22E-01	1.22E-01
		529.64	30.30	-6.75E-02		1.67E-01
		552.65	16.40	7.07E-02		3.43E-01
+	KR-85	513.99	0.43	1.41E+01	1.79E+01	1.79E+01
+	SR-85	513.99	99.27	6.19E-02	7.84E-02	7.84E-02
+	Y-88	898.02	93.40	-1.49E-02	6.15E-02	6.15E-02
		1836.01	99.38	-4.86E-02		7.48E-02
+	NB-93M	16.57	9.43	2.72E-01	2.15E-01	2.15E-01
+	NB-94	702.63	100.00	-1.66E-02	6.85E-02	6.98E-02
		871.10	100.00	9.01E-04		6.85E-02
+	NB-95	765.79	99.81	3.30E-03	6.62E-02	6.62E-02
+	NB-95M	235.69	25.00	-1.34E-02	1.64E-01	1.64E-01
+	ZR-95	724.18	43.70	-7.09E-02	1.18E-01	1.26E-01
		756.72	55.30	-3.09E-02		1.18E-01
+	MO-99	181.06	6.20	-1.02E-01	5.15E-01	6.60E-01

Analysis Report for 1507047-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	MO-99	739.58	12.80	1.55E-01	5.15E-01	5.15E-01
		778.00	4.50	-3.34E-01		1.37E+00
+	RU-103	497.08	89.00	8.34E-03	6.22E-02	6.22E-02
+	RU-106	621.84	9.80	-1.07E-01	5.18E-01	5.18E-01
+	AG-108M	433.93	89.90	-2.56E-02	5.72E-02	5.72E-02
		614.37	90.40	1.01E-02		6.34E-02
		722.95	90.50	-4.14E-02		5.87E-02
+	CD-109	88.03	3.72	5.08E-03	7.84E-01	7.84E-01
+	AG-110M	657.75	93.14	4.53E-03	6.10E-02	6.10E-02
		677.61	10.53	1.36E-01		6.40E-01
		706.67	16.46	2.31E-01		4.52E-01
		763.93	21.98	4.69E-03		3.00E-01
		884.67	71.63	1.40E-02		9.70E-02
		1384.27	23.94	6.95E-02		2.97E-01
+	CD-113M	263.70	0.02	-1.33E+01	1.74E+02	1.74E+02
+	SN-113	255.12	1.93	-5.59E-02	8.13E-02	2.10E+00
		391.69	64.90	2.06E-02		8.13E-02
+	TE123M	159.00	84.10	-1.73E-02	3.77E-02	3.77E-02
+	SB-124	602.71	97.87	1.20E-03	4.87E-02	4.87E-02
		645.85	7.26	1.60E-01		8.30E-01
		722.78	11.10	-7.54E-02		5.31E-01
		1691.02	49.00	-1.43E-02		1.58E-01
+	I-125	35.49	6.49	-1.26E-01	2.76E-01	2.76E-01
+	SB-125	176.33	6.89	-1.35E-01	1.78E-01	5.34E-01
		427.89	29.33	3.23E-02		1.78E-01
		463.38	10.35	2.14E-02		4.39E-01
		600.56	17.80	-7.61E-03		2.58E-01
		635.90	11.32	2.44E-01		6.13E-01
+	SB-126	414.70	83.30	-8.76E-03	5.83E-02	5.83E-02
		666.33	99.60	1.19E-02		6.93E-02
		695.00	99.60	2.64E-02		7.22E-02
		720.50	53.80	1.04E-02		1.16E-01
+	SN-126	87.57	37.00	5.09E-04	7.86E-02	7.86E-02
+	SB-127	473.00	25.00	2.87E-04	1.67E-01	1.74E-01
		685.20	35.70	-5.01E-02		1.67E-01
		783.80	14.70	1.44E-02		4.62E-01
+	I-129	29.78	57.00	-4.40E-03	3.47E-02	3.47E-02
		33.60	13.20	-8.44E-03		1.44E-01
		39.58	7.52	-1.47E-01		2.49E-01
+	I-131	284.30	6.05	-1.06E-01	6.34E-02	7.08E-01
		364.48	81.20	3.89E-03		6.34E-02
		636.97	7.26	3.31E-01		9.75E-01
		722.89	1.80	-4.66E-01		3.28E+00
+	TE-132	49.72	13.10	-6.45E-03	4.47E-02	1.60E-01
		228.16	88.00	-1.88E-03		4.47E-02
+	BA-133	81.00	33.00	2.21E-03	8.29E-02	8.30E-02
		302.84	17.80	-1.33E-01		2.57E-01
		356.01	60.00	7.33E-03		8.29E-02
+	I-133	529.87	86.30	-2.42E-02	6.00E-02	6.00E-02

Analysis Report for 1507047-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	XE-133	81.00	38.00	1.92E-03	7.23E-02	7.23E-02
+	CS-134	563.23	8.38	5.46E-02	5.78E-02	7.93E-01
		569.32	15.43	-1.67E-03		4.03E-01
		604.70	97.60	-2.18E-03		5.78E-02
		795.84	85.40	-1.00E-02		6.28E-02
		801.93	8.73	-7.18E-02		7.47E-01
+	CS-135	268.24	16.00	9.78E-02	2.71E-01	2.71E-01
+	I-135	1131.51	22.50	-8.57E-03	1.73E-01	2.81E-01
		1260.41	28.60	-2.33E-01		1.73E-01
		1678.03	9.54	-1.67E-01		9.41E-01
+	CS-136	153.22	7.46	-1.78E-01	6.47E-02	4.16E-01
		163.89	4.61	-7.44E-02		7.22E-01
		176.55	13.56	-6.85E-02		2.72E-01
		273.65	12.66	1.53E-01		3.55E-01
		340.57	48.50	-8.24E-03		9.00E-02
		818.50	99.70	-1.55E-02		6.47E-02
		1048.07	79.60	3.18E-02		1.03E-01
		1235.34	19.70	-1.78E-02		3.74E-01
+	CS-137	661.65	85.12	9.45E-04	7.41E-02	7.41E-02
+	LA-138	788.74	34.00	2.31E-02	9.14E-02	1.94E-01
		1435.80	66.00	-9.44E-04		9.14E-02
+	CE-139	165.85	80.35	-1.46E-03	4.30E-02	4.30E-02
+	BA-140	162.64	6.70	1.64E-01	2.19E-01	5.08E-01
		304.84	4.50	2.45E-01		1.05E+00
		423.70	3.20	5.42E-01		1.60E+00
		437.55	2.00	3.05E-01		2.74E+00
		537.32	25.00	1.49E-01		2.19E-01
+	LA-140	328.77	20.50	-6.64E-03	9.09E-02	2.32E-01
		487.03	45.50	1.42E-02		1.11E-01
		815.85	23.50	6.40E-02		2.64E-01
		1596.49	95.49	-1.04E-02		9.09E-02
+	CE-141	145.44	48.40	1.85E-02	6.80E-02	6.80E-02
+	CE-143	57.36	11.80	-1.01E-01	1.29E-01	1.97E-01
		293.26	42.00	6.76E-02		1.29E-01
		664.55	5.20	-3.58E-02		1.29E+00
+	CE-144	133.54	10.80	3.43E-02	2.75E-01	2.75E-01
+	PM-144	476.78	42.00	2.81E-02	5.71E-02	1.11E-01
		618.01	98.60	1.45E-02		5.71E-02
		696.49	99.49	9.57E-03		7.23E-02
+	PM-145	36.85	21.70	-2.38E-02	4.63E-02	8.48E-02
		37.36	39.70	-1.63E-02		4.63E-02
		42.30	15.10	2.68E-02		1.35E-01
		72.40	2.31	7.37E-01		1.17E+00
+	PM-146	453.90	39.94	-2.71E-02	1.09E-01	1.09E-01
		735.90	14.01	-2.26E-01		4.28E-01
		747.13	13.10	-2.60E-01		4.02E-01
+	ND-147	91.11	28.90	5.50E-02	1.05E-01	1.05E-01
		531.02	13.10	-7.75E-02		4.05E-01
+	PM-149	285.90	3.10	-5.30E-02	1.45E+00	1.45E+00

Analysis Report for 1507047-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	EU-152	121.78	20.50	-1.50E-02	1.43E-01	1.43E-01
		244.69	5.40	-1.22E-01		8.18E-01
		344.27	19.13	-5.41E-02		2.33E-01
		778.89	9.20	-1.62E-01		6.67E-01
		964.01	10.40	1.49E-02		7.72E-01
		1085.78	7.22	-3.74E-01		8.48E-01
		1112.02	9.60	5.14E-03		7.71E-01
		1407.95	14.94	-3.69E-02		4.83E-01
+	GD-153	97.43	31.30	-7.54E-02	8.54E-02	8.54E-02
		103.18	22.20	5.02E-02		1.25E-01
+	EU-154	123.07	40.50	-1.54E-02	7.13E-02	7.13E-02
		723.30	19.70	-1.90E-01		2.70E-01
		873.19	11.50	-2.14E-01		5.56E-01
		996.32	10.30	2.72E-01		7.57E-01
		1004.76	17.90	-9.01E-02		3.57E-01
		1274.45	35.50	-7.57E-03		1.86E-01
+	EU-155	86.50	30.90	-6.51E-02	8.95E-02	8.95E-02
		105.30	20.70	-6.90E-02		1.31E-01
+	EU-156	811.77	10.40	-7.37E-02	5.01E-01	5.01E-01
		1153.47	7.20	-7.10E-03		9.01E-01
		1230.71	8.90	2.06E-01		8.24E-01
+	HO-166M	184.41	72.60	3.46E-02	5.96E-02	5.96E-02
		280.45	29.60	7.58E-03		1.48E-01
		410.94	11.10	1.10E-01		4.27E-01
		711.69	54.10	-7.08E-02		1.10E-01
+	TM-171	66.72	0.14	-1.57E+00	1.80E+01	1.80E+01
+	HF-172	81.75	4.52	4.00E-02	2.52E-01	6.03E-01
		125.81	11.30	-2.33E-02		2.52E-01
+	LU-172	181.53	20.60	5.88E-02	1.17E-01	2.06E-01
		810.06	16.63	0.00E+00		3.29E-01
		912.12	15.25	2.76E-02		4.86E-01
		1093.66	62.50	3.17E-02		1.17E-01
+	LU-173	100.72	5.24	-1.61E-01	2.04E-01	4.98E-01
		272.11	21.20	7.22E-03		2.04E-01
+	HF-175	343.40	84.00	-4.21E-03	5.23E-02	5.23E-02
+	LU-176	88.34	13.30	1.54E-01	4.79E-02	2.30E-01
		201.83	86.00	-2.09E-02		4.85E-02
		306.78	94.00	7.60E-03		4.79E-02
+	TA-182	67.75	41.20	-3.99E-02	6.04E-02	6.04E-02
		1121.30	34.90	1.34E-02		1.93E-01
		1189.05	16.23	-1.26E-01		3.50E-01
		1221.41	26.98	-1.02E-01		1.32E-01
		1231.02	11.44	1.60E-01		6.41E-01
+	IR-192	308.46	29.68	6.33E-02	8.46E-02	1.52E-01
		468.07	48.10	-1.74E-02		8.46E-02
+	HG-203	279.19	77.30	-1.74E-02	5.49E-02	5.49E-02
+	BI-207	569.67	97.72	-2.63E-04	6.37E-02	6.37E-02
		1063.62	74.90	-6.25E-02		6.83E-02
+	TL-208	583.14	30.22	-2.23E-02	2.07E-01	2.07E-01

Analysis Report for 1507047-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	860.37		4.48	-6.14E-01	2.07E-01	1.23E+00
		2614.66		35.85	7.48E-02		2.68E-01
+	BI-210M	262.00		45.00	2.07E-02	8.98E-02	8.98E-02
		300.00		23.00	3.06E-02		2.20E-01
+	PB-210	46.50		4.25	1.75E-01	4.95E-01	4.95E-01
+	PB-211	404.84		2.90	-5.14E-01	1.54E+00	1.54E+00
		831.96		2.90	3.50E-01		2.40E+00
+	BI-212	727.17		11.80	1.62E-01	5.46E-01	5.46E-01
		1620.62		2.75	9.43E-02		2.72E+00
+	PB-212	238.63		44.60	8.74E-03	9.50E-02	9.50E-02
		300.09		3.41	2.07E-01		1.48E+00
+	BI-214	609.31	*	46.30	1.16E-01	9.56E-02	9.56E-02
		1120.29		15.10	-5.92E-02		4.45E-01
		1764.49		15.80	1.20E-01		5.08E-01
		2204.22		4.98	6.38E-01		1.92E+00
+	PB-214	295.21		19.19	9.68E-02	1.31E-01	2.72E-01
		351.92		37.19	1.95E-02		1.31E-01
+	RN-219	401.80		6.50	-1.55E-01	6.92E-01	6.92E-01
+	RA-223	323.87		3.88	5.28E-01	1.35E+00	1.35E+00
+	RA-224	240.98		3.95	3.38E-01	1.11E+00	1.11E+00
+	RA-225	40.00		31.00	-3.58E-02	6.08E-02	6.08E-02
+	RA-226	186.21		3.28	7.54E-01	1.32E+00	1.32E+00
+	TH-227	50.10		8.40	-1.00E-02	2.49E-01	2.49E-01
		236.00		11.50	-2.91E-02		3.55E-01
		256.20		6.30	-6.37E-02		6.18E-01
+	AC-228	338.32		11.40	1.10E-01	2.67E-01	4.03E-01
		911.07		27.70	5.81E-02		2.67E-01
		969.11		16.60	-3.91E-03		5.27E-01
+	TH-230	48.44		16.90	2.50E-02	1.25E-01	1.25E-01
		62.85		4.60	4.19E-01		5.58E-01
		67.67		0.37	-4.45E+00		6.73E+00
+	PA-231	283.67		1.60	9.35E-02	1.99E+00	2.76E+00
		302.67		2.30	-1.03E+00		1.99E+00
+	TH-231	25.64		14.70	4.14E-02	1.51E-01	1.51E-01
		84.21		6.40	-1.57E-01		4.10E-01
+	PA-233	311.98		38.60	-7.52E-03	1.08E-01	1.08E-01
+	PA-234	131.20		20.40	-2.55E-02	1.40E-01	1.40E-01
		733.99		8.80	-1.80E-01		7.20E-01
		946.00		12.00	-2.54E-01		3.81E-01
+	PA-234M	1001.03		0.92	2.03E+00	7.92E+00	7.92E+00
+	TH-234	63.29		3.80	2.68E-01	6.65E-01	6.65E-01
+	U-235	143.76		10.50	4.10E-02	3.04E-01	3.04E-01
		163.35		4.70	-7.27E-02		7.06E-01
		205.31		4.70	3.23E-01		9.37E-01
+	NP-237	86.50		12.60	-1.60E-01	2.19E-01	2.19E-01
+	NP-239	106.10		22.70	-6.37E-02	1.21E-01	1.21E-01
		228.18		10.70	6.30E-02		3.63E-01
		277.60		14.10	-1.29E-01		3.02E-01

Analysis Report for 1507047-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54	35.90	7.09E-02	7.19E-02	7.19E-02
+	AM-243	74.67	66.00	5.03E-02	4.31E-02	4.31E-02
+	CM-243	209.75	3.29	-1.16E-01	3.01E-01	1.30E+00
		228.14	10.60	-1.55E-02		3.69E-01
		277.60	14.00	-1.29E-01		3.01E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	4.58E-01	4.58E-01	9.76E-02	2.04E-01
NA-22	1274.54	99.94	6.61E-02	6.61E-02	-2.69E-03	2.62E-02
NA-24	1368.53	99.99	7.80E-02	7.01E-02	-9.83E-03	3.15E-02
	2754.09	99.86	7.01E-02		-3.18E-03	2.22E-02
AL-26	1808.65	99.76	1.03E-01	1.03E-01	2.28E-02	4.21E-02
K-40	1460.81	10.67	8.46E-01	8.46E-01	0.00E+00	3.51E-01
AR-41	1293.64	99.16	1.09E-01	1.09E-01	2.32E-02	4.54E-02
TI-44	67.88	94.40	2.64E-02	2.64E-02	-1.74E-02	1.26E-02
	78.34	96.00	2.86E-02		-5.47E-03	1.36E-02
SC-46	889.25	99.98	6.75E-02	6.72E-02	5.38E-03	2.89E-02
	1120.51	99.99	6.72E-02		-8.94E-03	2.75E-02
V-48	983.52	99.98	5.58E-02	5.58E-02	3.96E-03	2.25E-02
	1312.10	97.50	8.42E-02		4.25E-02	3.49E-02
CR-51	320.08	9.83	4.98E-01	4.98E-01	8.94E-02	2.31E-01
MN-54	834.83	99.97	7.75E-02	7.75E-02	2.83E-02	3.42E-02
CO-56	846.75	99.96	7.09E-02	7.09E-02	-1.44E-03	3.08E-02
	1037.75	14.03	5.16E-01		-5.93E-02	2.18E-01
	1238.25	67.00	1.22E-01		9.49E-03	5.11E-02

Analysis Report for 1507047-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	1771.40	15.51	5.19E-01	7.09E-02	-5.76E-02	2.01E-01
	2598.48	16.90	5.67E-01		1.58E-01	2.12E-01
CO-57	122.06	85.51	3.43E-02	3.43E-02	-3.61E-03	1.62E-02
	136.48	10.60	2.83E-01		2.63E-02	1.33E-01
CO-58	810.76	99.40	5.49E-02	5.49E-02	0.00E+00	2.30E-02
FE-59	1099.22	56.50	1.23E-01	1.23E-01	-1.56E-02	5.12E-02
	1291.56	43.20	2.06E-01		3.07E-02	8.68E-02
CO-60	1173.22	100.00	9.39E-02	7.87E-02	5.13E-02	4.06E-02
	1332.49	100.00	7.87E-02		2.70E-02	3.23E-02
ZN-65	1115.52	50.75	1.46E-01	1.46E-01	2.63E-02	6.12E-02
GA-67	93.31	35.70	8.61E-02	8.61E-02	6.37E-02	4.11E-02
	208.95	2.24	1.90E+00		-1.63E-01	8.95E-01
	300.22	16.00	3.07E-01		-2.69E-02	1.43E-01
SE-75	121.11	16.70	1.80E-01	5.24E-02	2.08E-02	8.53E-02
	136.00	59.20	5.24E-02		2.45E-02	2.47E-02
	264.65	59.80	6.45E-02		-2.79E-02	2.97E-02
	279.53	25.20	1.69E-01		-5.33E-02	7.80E-02
	400.65	11.40	4.18E-01		7.21E-02	1.89E-01
RB-82	776.52	13.00	4.39E-01	4.39E-01	-1.69E-01	1.87E-01
RB-83	520.41	46.00	1.22E-01	1.22E-01	-3.89E-03	5.46E-02
	529.64	30.30	1.67E-01		-6.75E-02	7.40E-02
	552.65	16.40	3.43E-01		7.07E-02	1.53E-01
KR-85	513.99	0.43	1.79E+01	1.79E+01	1.41E+01	8.31E+00
SR-85	513.99	99.27	7.84E-02	7.84E-02	6.19E-02	3.64E-02
Y-88	898.02	93.40	6.15E-02	6.15E-02	-1.49E-02	2.55E-02
	1836.01	99.38	7.48E-02		-4.86E-02	2.80E-02
NB-93M	16.57	9.43	2.15E-01	2.15E-01	2.72E-01	1.03E-01
NB-94	702.63	100.00	6.98E-02	6.85E-02	-1.66E-02	3.11E-02
	871.10	100.00	6.85E-02		9.01E-04	2.95E-02
NB-95	765.79	99.81	6.62E-02	6.62E-02	3.30E-03	2.89E-02
NB-95M	235.69	25.00	1.64E-01	1.64E-01	-1.34E-02	7.65E-02
ZR-95	724.18	43.70	1.26E-01	1.18E-01	-7.09E-02	5.41E-02
	756.72	55.30	1.18E-01		-3.09E-02	5.15E-02
MO-99	181.06	6.20	6.60E-01	5.15E-01	-1.02E-01	3.12E-01
	739.58	12.80	5.15E-01		1.55E-01	2.26E-01
	778.00	4.50	1.37E+00		-3.34E-01	5.90E-01
RU-103	497.08	89.00	6.22E-02	6.22E-02	8.34E-03	2.80E-02
RU-106	621.84	9.80	5.18E-01	5.18E-01	-1.07E-01	2.24E-01
AG-108M	433.93	89.90	5.72E-02	5.72E-02	-2.56E-02	2.59E-02
	614.37	90.40	6.34E-02		1.01E-02	2.80E-02
	722.95	90.50	5.87E-02		-4.14E-02	2.50E-02
CD-109	88.03	3.72	7.84E-01	7.84E-01	5.08E-03	3.74E-01
AG-110M	657.75	93.14	6.10E-02	6.10E-02	4.53E-03	2.66E-02
	677.61	10.53	6.40E-01		1.36E-01	2.85E-01
	706.67	16.46	4.52E-01		2.31E-01	2.02E-01
	763.93	21.98	3.00E-01		4.69E-03	1.31E-01
	884.67	71.63	9.70E-02		1.40E-02	4.18E-02
	1384.27	23.94	2.97E-01		6.95E-02	1.18E-01
CD-113M	263.70	0.02	1.74E+02	1.74E+02	-1.33E+01	8.03E+01
SN-113	255.12	1.93	2.10E+00	8.13E-02	-5.59E-02	9.74E-01
	391.69	64.90	8.13E-02		2.06E-02	3.73E-02
TE123M	159.00	84.10	3.77E-02	3.77E-02	-1.73E-02	1.77E-02
SB-124	602.71	97.87	4.87E-02	4.87E-02	1.20E-03	2.10E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SB-124	645.85	7.26	8.30E-01	4.87E-02	1.60E-01	3.66E-01
	722.78	11.10	5.31E-01		-7.54E-02	2.30E-01
	1691.02	49.00	1.58E-01		-1.43E-02	6.13E-02
I-125	35.49	6.49	2.76E-01	2.76E-01	-1.26E-01	1.31E-01
SB-125	176.33	6.89	5.34E-01	1.78E-01	-1.35E-01	2.52E-01
	427.89	29.33	1.78E-01		3.23E-02	8.09E-02
	463.38	10.35	4.39E-01		2.14E-02	1.95E-01
	600.56	17.80	2.58E-01		-7.61E-03	1.10E-01
	635.90	11.32	6.13E-01		2.44E-01	2.75E-01
SB-126	414.70	83.30	5.83E-02	5.83E-02	-8.76E-03	2.64E-02
	666.33	99.60	6.93E-02		1.19E-02	3.10E-02
	695.00	99.60	7.22E-02		2.64E-02	3.23E-02
	720.50	53.80	1.16E-01		1.04E-02	5.05E-02
SN-126	87.57	37.00	7.86E-02	7.86E-02	5.09E-04	3.75E-02
SB-127	473.00	25.00	1.74E-01	1.67E-01	2.87E-04	7.65E-02
	685.20	35.70	1.67E-01		-5.01E-02	7.27E-02
	783.80	14.70	4.62E-01		1.44E-02	2.02E-01
I-129	29.78	57.00	3.47E-02	3.47E-02	-4.40E-03	1.66E-02
	33.60	13.20	1.44E-01		-8.44E-03	6.87E-02
	39.58	7.52	2.49E-01		-1.47E-01	1.18E-01
I-131	284.30	6.05	7.08E-01	6.34E-02	-1.06E-01	3.27E-01
	364.48	81.20	6.34E-02		3.89E-03	2.92E-02
	636.97	7.26	9.75E-01		3.31E-01	4.39E-01
	722.89	1.80	3.28E+00		-4.66E-01	1.42E+00
TE-132	49.72	13.10	1.60E-01	4.47E-02	-6.45E-03	7.63E-02
	228.16	88.00	4.47E-02		-1.88E-03	2.08E-02
BA-133	81.00	33.00	8.30E-02	8.29E-02	2.21E-03	3.96E-02
	302.84	17.80	2.57E-01		-1.33E-01	1.19E-01
	356.01	60.00	8.29E-02		7.33E-03	3.81E-02
I-133	529.87	86.30	6.00E-02	6.00E-02	-2.42E-02	2.65E-02
XE-133	81.00	38.00	7.23E-02	7.23E-02	1.92E-03	3.45E-02
CS-134	563.23	8.38	7.93E-01	5.78E-02	5.46E-02	3.59E-01
	569.32	15.43	4.03E-01		-1.67E-03	1.81E-01
	604.70	97.60	5.78E-02		-2.18E-03	2.55E-02
	795.84	85.40	6.28E-02		-1.00E-02	2.63E-02
	801.93	8.73	7.47E-01		-7.18E-02	3.23E-01
CS-135	268.24	16.00	2.71E-01	2.71E-01	9.78E-02	1.26E-01
I-135	1131.51	22.50	2.81E-01	1.73E-01	-8.57E-03	1.11E-01
	1260.41	28.60	1.73E-01		-2.33E-01	6.13E-02
	1678.03	9.54	9.41E-01		-1.67E-01	3.73E-01
CS-136	153.22	7.46	4.16E-01	6.47E-02	-1.78E-01	1.95E-01
	163.89	4.61	7.22E-01		-7.44E-02	3.39E-01
	176.55	13.56	2.72E-01		-6.85E-02	1.28E-01
	273.65	12.66	3.55E-01		1.53E-01	1.65E-01
	340.57	48.50	9.00E-02		-8.24E-03	4.11E-02
	818.50	99.70	6.47E-02		-1.55E-02	2.79E-02
	1048.07	79.60	1.03E-01		3.18E-02	4.43E-02
	1235.34	19.70	3.74E-01		-1.78E-02	1.53E-01
CS-137	661.65	85.12	7.41E-02	7.41E-02	9.45E-04	3.28E-02
LA-138	788.74	34.00	1.94E-01	9.14E-02	2.31E-02	8.45E-02
	1435.80	66.00	9.14E-02		-9.44E-04	3.42E-02
CE-139	165.85	80.35	4.30E-02	4.30E-02	-1.46E-03	2.02E-02
BA-140	162.64	6.70	5.08E-01	2.19E-01	1.64E-01	2.39E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-140	304.84	4.50	1.05E+00	2.19E-01	2.45E-01	4.87E-01
	423.70	3.20	1.60E+00		5.42E-01	7.24E-01
	437.55	2.00	2.74E+00		3.05E-01	1.25E+00
	537.32	25.00	2.19E-01		1.49E-01	9.76E-02
LA-140	328.77	20.50	2.32E-01	9.09E-02	-6.64E-03	1.07E-01
	487.03	45.50	1.11E-01		1.42E-02	4.97E-02
	815.85	23.50	2.64E-01		6.40E-02	1.13E-01
	1596.49	95.49	9.09E-02		-1.04E-02	3.67E-02
CE-141	145.44	48.40	6.80E-02	6.80E-02	1.85E-02	3.21E-02
CE-143	57.36	11.80	1.97E-01	1.29E-01	-1.01E-01	9.39E-02
	293.26	42.00	1.29E-01		6.76E-02	6.03E-02
	664.55	5.20	1.29E+00		-3.58E-02	5.73E-01
CE-144	133.54	10.80	2.75E-01	2.75E-01	3.43E-02	1.29E-01
PM-144	476.78	42.00	1.11E-01	5.71E-02	2.81E-02	4.93E-02
	618.01	98.60	5.71E-02		1.45E-02	2.51E-02
	696.49	99.49	7.23E-02		9.57E-03	3.23E-02
PM-145	36.85	21.70	8.48E-02	4.63E-02	-2.38E-02	4.03E-02
	37.36	39.70	4.63E-02		-1.63E-02	2.20E-02
	42.30	15.10	1.35E-01		2.68E-02	6.42E-02
	72.40	2.31	1.17E+00		7.37E-01	5.60E-01
PM-146	453.90	39.94	1.09E-01	1.09E-01	-2.71E-02	4.82E-02
	735.90	14.01	4.28E-01		-2.26E-01	1.85E-01
	747.13	13.10	4.02E-01		-2.60E-01	1.70E-01
ND-147	91.11	28.90	1.05E-01	1.05E-01	5.50E-02	5.04E-02
	531.02	13.10	4.05E-01		-7.75E-02	1.80E-01
PM-149	285.90	3.10	1.45E+00	1.45E+00	-5.30E-02	6.71E-01
EU-152	121.78	20.50	1.43E-01	1.43E-01	-1.50E-02	6.74E-02
	244.69	5.40	8.18E-01		-1.22E-01	3.83E-01
	344.27	19.13	2.33E-01		-5.41E-02	1.06E-01
	778.89	9.20	6.67E-01		-1.62E-01	2.87E-01
	964.01	10.40	7.72E-01		1.49E-02	3.36E-01
	1085.78	7.22	8.48E-01		-3.74E-01	3.43E-01
	1112.02	9.60	7.71E-01		5.14E-03	3.23E-01
	1407.95	14.94	4.83E-01		-3.69E-02	1.92E-01
GD-153	97.43	31.30	8.54E-02	8.54E-02	-7.54E-02	4.05E-02
	103.18	22.20	1.25E-01		5.02E-02	5.91E-02
EU-154	123.07	40.50	7.13E-02	7.13E-02	-1.54E-02	3.37E-02
	723.30	19.70	2.70E-01		-1.90E-01	1.15E-01
	873.19	11.50	5.56E-01		-2.14E-01	2.36E-01
	996.32	10.30	7.57E-01		2.72E-01	3.26E-01
	1004.76	17.90	3.57E-01		-9.01E-02	1.48E-01
	1274.45	35.50	1.86E-01		-7.57E-03	7.38E-02
EU-155	86.50	30.90	8.95E-02	8.95E-02	-6.51E-02	4.26E-02
	105.30	20.70	1.31E-01		-6.90E-02	6.18E-02
EU-156	811.77	10.40	5.01E-01	5.01E-01	-7.37E-02	2.08E-01
	1153.47	7.20	9.01E-01		-7.10E-03	3.64E-01
	1230.71	8.90	8.24E-01		2.06E-01	3.38E-01
HO-166M	184.41	72.60	5.96E-02	5.96E-02	3.46E-02	2.83E-02
	280.45	29.60	1.48E-01		7.58E-03	6.85E-02
	410.94	11.10	4.27E-01		1.10E-01	1.93E-01
	711.69	54.10	1.10E-01		-7.08E-02	4.80E-02
TM-171	66.72	0.14	1.80E+01	1.80E+01	-1.57E+00	8.59E+00
HF-172	81.75	4.52	6.03E-01	2.52E-01	4.00E-02	2.87E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HF-172	125.81		11.30	2.52E-01	2.52E-01	-2.33E-02	1.19E-01
	LU-172	181.53		20.60	2.06E-01	1.17E-01	5.88E-02	9.78E-02
		810.06		16.63	3.29E-01		0.00E+00	1.38E-01
		912.12		15.25	4.86E-01		2.76E-02	2.10E-01
		1093.66		62.50	1.17E-01		3.17E-02	4.89E-02
	LU-173	100.72		5.24	4.98E-01	2.04E-01	-1.61E-01	2.35E-01
		272.11		21.20	2.04E-01		7.22E-03	9.47E-02
	HF-175	343.40		84.00	5.23E-02	5.23E-02	-4.21E-03	2.39E-02
	LU-176	88.34		13.30	2.30E-01	4.79E-02	1.54E-01	1.10E-01
		201.83		86.00	4.85E-02		-2.09E-02	2.29E-02
		306.78		94.00	4.79E-02		7.60E-03	2.21E-02
	TA-182	67.75		41.20	6.04E-02	6.04E-02	-3.99E-02	2.88E-02
		1121.30		34.90	1.93E-01		1.34E-02	7.89E-02
		1189.05		16.23	3.50E-01		-1.26E-01	1.35E-01
		1221.41		26.98	1.32E-01		-1.02E-01	4.18E-02
		1231.02		11.44	6.41E-01		1.60E-01	2.63E-01
	IR-192	308.46		29.68	1.52E-01	8.46E-02	6.33E-02	7.03E-02
		468.07		48.10	8.46E-02		-1.74E-02	3.69E-02
	HG-203	279.19		77.30	5.49E-02	5.49E-02	-1.74E-02	2.54E-02
	BI-207	569.67		97.72	6.37E-02	6.37E-02	-2.63E-04	2.86E-02
		1063.62		74.90	6.83E-02		-6.25E-02	2.64E-02
	TL-208	583.14		30.22	2.07E-01	2.07E-01	-2.23E-02	9.29E-02
		860.37		4.48	1.23E+00		-6.14E-01	5.10E-01
		2614.66		35.85	2.68E-01		7.48E-02	1.00E-01
	BI-210M	262.00		45.00	8.98E-02	8.98E-02	2.07E-02	4.16E-02
		300.00		23.00	2.20E-01		3.06E-02	1.03E-01
	PB-210	46.50		4.25	4.95E-01	4.95E-01	1.75E-01	2.36E-01
	PB-211	404.84		2.90	1.54E+00	1.54E+00	-5.14E-01	6.91E-01
		831.96		2.90	2.40E+00		3.50E-01	1.04E+00
	BI-212	727.17		11.80	5.46E-01	5.46E-01	1.62E-01	2.39E-01
		1620.62		2.75	2.72E+00		9.43E-02	1.05E+00
	PB-212	238.63		44.60	9.50E-02	9.50E-02	8.74E-03	4.44E-02
		300.09		3.41	1.48E+00		2.07E-01	6.93E-01
+	BI-214	609.31	*	46.30	9.56E-02	9.56E-02	1.16E-01	4.06E-02
		1120.29		15.10	4.45E-01		-5.92E-02	1.82E-01
		1764.49		15.80	5.08E-01		1.20E-01	1.97E-01
		2204.22		4.98	1.92E+00		6.38E-01	7.42E-01
	PB-214	295.21		19.19	2.72E-01	1.31E-01	9.68E-02	1.28E-01
		351.92		37.19	1.31E-01		1.95E-02	6.02E-02
	RN-219	401.80		6.50	6.92E-01	6.92E-01	-1.55E-01	3.12E-01
	RA-223	323.87		3.88	1.35E+00	1.35E+00	5.28E-01	6.28E-01
	RA-224	240.98		3.95	1.11E+00	1.11E+00	3.38E-01	5.20E-01
	RA-225	40.00		31.00	6.08E-02	6.08E-02	-3.58E-02	2.89E-02
	RA-226	186.21		3.28	1.32E+00	1.32E+00	7.54E-01	6.25E-01
	TH-227	50.10		8.40	2.49E-01	2.49E-01	-1.00E-02	1.19E-01
		236.00		11.50	3.55E-01		-2.91E-02	1.66E-01
		256.20		6.30	6.18E-01		-6.37E-02	2.86E-01
	AC-228	338.32		11.40	4.03E-01	2.67E-01	1.10E-01	1.85E-01
		911.07		27.70	2.67E-01		5.81E-02	1.15E-01
		969.11		16.60	5.27E-01		-3.91E-03	2.32E-01
	TH-230	48.44		16.90	1.25E-01	1.25E-01	2.50E-02	5.93E-02
		62.85		4.60	5.58E-01		4.19E-01	2.67E-01
		67.67		0.37	6.73E+00		-4.45E+00	3.21E+00

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
PA-231	283.67	1.60	2.76E+00	1.99E+00	9.35E-02	1.28E+00
	302.67	2.30	1.99E+00		-1.03E+00	9.19E-01
TH-231	25.64	14.70	1.51E-01	1.51E-01	4.14E-02	7.24E-02
	84.21	6.40	4.10E-01		-1.57E-01	1.95E-01
PA-233	311.98	38.60	1.08E-01	1.08E-01	-7.52E-03	4.94E-02
PA-234	131.20	20.40	1.40E-01	1.40E-01	-2.55E-02	6.61E-02
	733.99	8.80	7.20E-01		-1.80E-01	3.14E-01
	946.00	12.00	3.81E-01		-2.54E-01	1.48E-01
PA-234M	1001.03	0.92	7.92E+00	7.92E+00	2.03E+00	3.37E+00
TH-234	63.29	3.80	6.65E-01	6.65E-01	2.68E-01	3.18E-01
U-235	143.76	10.50	3.04E-01	3.04E-01	4.10E-02	1.44E-01
	163.35	4.70	7.06E-01		-7.27E-02	3.31E-01
	205.31	4.70	9.37E-01		3.23E-01	4.43E-01
NP-237	86.50	12.60	2.19E-01	2.19E-01	-1.60E-01	1.05E-01
NP-239	106.10	22.70	1.21E-01	1.21E-01	-6.37E-02	5.71E-02
	228.18	10.70	3.63E-01		6.30E-02	1.69E-01
	277.60	14.10	3.02E-01		-1.29E-01	1.40E-01
AM-241	59.54	35.90	7.19E-02	7.19E-02	7.09E-02	3.45E-02
AM-243	74.67	66.00	4.31E-02	4.31E-02	5.03E-02	2.06E-02
CM-243	209.75	3.29	1.30E+00	3.01E-01	-1.16E-01	6.11E-01
	228.14	10.60	3.69E-01		-1.55E-02	1.72E-01
	277.60	14.00	3.01E-01		-1.29E-01	1.39E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-02

BLANK

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	6	49
17:	33	33	27	28	34	28	22	22
25:	19	19	20	19	23	20	11	14
33:	11	14	16	13	15	11	12	16
41:	13	6	20	22	16	23	18	14
49:	9	12	12	10	17	10	16	16
57:	17	13	22	18	13	27	34	16
65:	6	16	7	10	15	19	21	16
73:	14	33	12	20	18	19	14	11
81:	8	16	15	24	17	14	8	8
89:	16	19	29	30	20	13	10	12
97:	5	13	9	18	10	11	13	9
105:	11	16	8	13	11	20	9	16
113:	16	14	12	16	11	12	14	12
121:	8	13	13	6	9	7	11	11
129:	10	4	13	8	11	9	15	7
137:	11	9	11	6	8	9	11	11
145:	13	7	16	16	5	9	10	10
153:	10	14	8	7	5	14	6	7
161:	5	11	9	11	14	9	9	10
169:	8	13	10	8	4	7	16	12
177:	11	11	7	13	11	12	13	15
185:	21	13	13	5	16	6	6	10
193:	10	10	11	5	13	10	7	14
201:	17	11	8	5	7	12	15	18
209:	7	9	9	7	6	12	9	5
217:	8	9	6	12	6	5	9	7
225:	8	6	4	6	7	8	9	7
233:	5	9	3	2	11	11	9	11
241:	10	4	10	6	7	8	8	9
249:	6	6	11	5	5	2	8	7
257:	6	6	7	5	4	2	8	8
265:	7	3	7	3	4	10	8	9
273:	6	5	5	10	4	5	7	4
281:	6	7	4	8	5	9	5	3
289:	8	6	7	8	8	8	10	16
297:	6	5	5	9	6	6	3	5
305:	8	5	6	7	4	5	6	3
313:	1	5	3	5	8	1	8	11
321:	8	7	3	9	4	9	2	4
329:	6	6	4	4	3	7	5	3
337:	8	1	5	4	5	4	4	3
345:	4	6	2	6	2	6	8	5
353:	2	7	6	5	2	6	4	4
361:	5	5	3	8	5	4	5	7

369:	8	5	4	1	3	4	1	3

Sample Title: BLANK

Channel								
377:	1	5	3	4	6	4	6	3
385:	4	3	6	5	7	4	4	4
393:	5	6	1	5	2	5	5	4
401:	2	3	4	2	1	3	3	5
409:	3	5	4	2	3	2	3	2
417:	3	7	4	4	0	2	4	5
425:	2	5	7	3	1	3	4	5
433:	3	4	6	3	3	6	6	3
441:	2	1	3	6	4	1	2	4
449:	2	2	3	2	1	3	3	0
457:	4	5	4	1	3	3	2	3
465:	1	1	3	3	1	1	2	1
473:	2	1	3	4	1	3	3	3
481:	2	2	2	3	4	1	4	3
489:	3	2	3	1	2	3	2	2
497:	7	4	2	2	4	2	5	3
505:	3	3	2	0	5	13	16	6
513:	4	6	1	3	1	3	2	5
521:	1	3	6	2	2	1	4	5
529:	2	1	1	0	4	4	3	2
537:	3	4	1	1	1	0	2	0
545:	2	0	1	4	2	2	3	5
553:	1	1	1	4	2	4	2	5
561:	3	2	7	3	4	2	4	1
569:	8	1	2	3	2	3	4	0
577:	3	3	4	3	2	5	3	3
585:	1	2	3	4	6	2	0	2
593:	3	1	2	1	2	4	0	3
601:	0	2	0	0	0	4	5	5
609:	5	4	1	2	2	0	2	7
617:	0	1	3	0	2	3	2	2
625:	1	1	0	2	0	4	1	3
633:	5	5	2	2	5	2	2	2
641:	1	2	4	3	1	2	3	2
649:	1	1	0	3	0	1	1	1
657:	2	3	2	3	3	1	3	2
665:	1	5	2	2	5	3	0	2
673:	3	3	4	2	1	2	2	4
681:	1	3	1	2	2	1	1	2
689:	3	1	1	5	1	3	1	6
697:	4	2	1	1	0	3	5	2
705:	3	5	2	1	4	0	0	2
713:	3	3	0	3	2	4	1	1
721:	0	2	3	0	2	1	1	2
729:	3	2	3	1	0	3	2	1
737:	1	3	0	3	5	1	1	1
745:	1	1	0	0	3	1	2	0
753:	3	2	4	2	2	1	1	1
761:	6	1	1	1	2	0	1	3
769:	1	3	2	1	1	1	1	2
777:	0	2	0	3	2	2	2	0
785:	6	1	0	0	6	0	1	1
793:	1	0	2	1	1	1	1	6

801:	1	0	0	1	2	2	0	2

Sample Title: BLANK

Channel								
809:	1	0	1	0	0	3	1	3
817:	4	0	0	1	0	1	1	1
825:	1	0	2	1	0	1	4	2
833:	1	3	1	2	1	4	0	0
841:	4	3	1	2	1	2	0	2
849:	2	2	2	1	3	2	1	2
857:	2	0	0	2	1	0	1	0
865:	0	1	4	1	0	2	2	0
873:	2	2	0	3	0	3	1	2
881:	2	3	0	1	1	1	1	2
889:	1	1	1	2	2	1	2	0
897:	1	0	1	0	0	3	2	0
905:	1	1	1	1	4	2	0	4
913:	0	1	1	1	1	2	2	2
921:	1	0	2	2	2	3	1	1
929:	1	1	1	0	3	2	1	1
937:	1	1	5	2	0	0	0	1
945:	1	0	2	0	0	0	3	3
953:	4	0	1	0	1	5	1	2
961:	4	1	0	0	1	1	2	4
969:	2	0	1	1	6	3	1	0
977:	2	0	0	0	0	1	1	0
985:	1	1	2	0	0	1	1	1
993:	1	0	4	0	3	1	0	3
1001:	0	0	2	1	1	0	0	1
1009:	2	1	1	3	0	0	3	1
1017:	4	0	0	0	0	0	1	0
1025:	1	2	1	1	2	3	0	1
1033:	0	1	1	3	1	1	1	1
1041:	1	2	0	2	2	3	0	3
1049:	2	0	0	1	0	2	0	1
1057:	2	2	0	0	0	2	0	0
1065:	0	1	1	3	1	1	3	0
1073:	0	0	0	1	2	0	0	0
1081:	0	2	1	1	1	1	0	0
1089:	0	0	3	1	1	0	2	0
1097:	2	2	0	0	0	2	0	1
1105:	1	2	1	2	0	0	1	1
1113:	2	1	0	2	1	1	0	1
1121:	1	0	0	1	2	0	1	0
1129:	0	0	2	2	0	0	0	0
1137:	0	1	1	0	0	0	3	0
1145:	0	1	0	0	0	0	2	1
1153:	0	0	2	1	0	2	1	0
1161:	2	2	1	0	0	0	1	0
1169:	0	0	3	0	2	3	1	4
1177:	1	0	1	0	1	2	2	0
1185:	1	0	1	0	1	0	0	0
1193:	1	0	2	0	0	0	0	0
1201:	4	1	0	0	0	0	5	0
1209:	1	2	0	1	1	2	1	1
1217:	0	1	0	0	0	0	0	0
1225:	0	0	2	0	0	1	0	0

1233:	2	2	0	0	2	0	1	4

Sample Title: BLANK

Channel								
1241:	0	0	1	2	0	0	0	0
1249:	0	1	0	1	1	1	1	0
1257:	0	0	1	1	0	0	0	0
1265:	1	2	3	0	0	1	1	0
1273:	0	1	0	1	0	1	0	0
1281:	1	0	0	0	1	2	1	1
1289:	1	1	1	2	1	0	2	0
1297:	1	1	0	1	0	0	1	0
1305:	0	0	0	0	0	0	1	2
1313:	1	1	2	1	0	0	0	2
1321:	0	3	1	0	0	1	0	0
1329:	0	2	0	1	0	0	1	3
1337:	0	0	0	0	2	2	1	0
1345:	1	0	0	1	0	0	0	1
1353:	1	2	0	1	0	2	1	0
1361:	1	1	2	2	0	0	2	0
1369:	2	0	0	0	1	0	1	0
1377:	0	0	0	0	0	2	1	1
1385:	1	0	0	0	0	1	0	0
1393:	0	0	1	0	0	1	0	1
1401:	1	0	1	1	0	0	1	1
1409:	0	0	1	1	1	1	0	1
1417:	0	0	1	0	0	1	0	0
1425:	0	0	1	1	0	0	0	0
1433:	0	0	0	2	1	0	0	0
1441:	1	0	1	1	0	0	1	0
1449:	0	1	0	1	0	0	1	1
1457:	0	1	1	1	3	2	0	0
1465:	0	0	1	0	1	1	1	1
1473:	1	1	0	0	0	1	1	1
1481:	0	0	0	1	0	0	1	0
1489:	1	1	0	1	1	0	0	0
1497:	1	0	1	0	1	0	0	0
1505:	0	0	1	1	0	1	2	0
1513:	1	0	0	0	1	1	0	0
1521:	0	1	0	1	1	0	1	0
1529:	0	0	0	0	1	0	0	2
1537:	0	0	0	1	0	1	1	0
1545:	1	1	0	0	0	2	0	0
1553:	0	0	1	0	0	0	0	0
1561:	2	2	0	0	0	1	0	0
1569:	0	0	1	1	1	0	0	0
1577:	0	1	0	0	0	2	0	1
1585:	0	1	0	1	0	0	0	2
1593:	2	0	0	0	0	1	1	2
1601:	0	1	0	2	1	0	0	1
1609:	1	1	0	1	1	0	1	1
1617:	1	1	1	0	1	0	0	0
1625:	0	1	0	0	1	0	0	1
1633:	1	0	1	1	0	0	1	0
1641:	0	0	0	1	0	0	0	0
1649:	0	1	0	0	0	0	0	1
1657:	1	0	1	0	0	0	1	1

1665:	1	0	0	1	1	0	0	0

Sample Title: BLANK

Channel								
1673:	2	0	0	1	1	0	1	0
1681:	1	1	1	1	1	0	0	0
1689:	0	0	1	0	1	1	1	1
1697:	0	0	0	0	1	0	0	0
1705:	0	1	0	0	0	0	0	0
1713:	0	0	0	0	0	0	0	1
1721:	0	2	0	1	0	0	1	0
1729:	0	0	0	1	0	0	0	0
1737:	0	0	0	0	1	0	0	0
1745:	0	0	1	0	1	0	0	1
1753:	0	0	0	1	0	0	0	0
1761:	0	0	0	0	2	0	0	0
1769:	0	2	0	0	1	0	1	0
1777:	0	0	0	1	1	0	1	0
1785:	0	0	0	0	0	1	0	1
1793:	0	0	0	1	0	1	0	0
1801:	0	0	1	0	0	1	2	0
1809:	1	1	0	1	1	0	0	1
1817:	0	1	1	0	0	0	0	2
1825:	0	0	0	0	2	0	0	0
1833:	0	0	0	0	2	0	0	1
1841:	0	0	1	3	0	0	1	0
1849:	1	0	0	0	0	1	0	0
1857:	0	0	0	1	1	0	0	1
1865:	0	2	0	1	2	0	0	0
1873:	0	1	0	0	0	1	0	1
1881:	1	0	0	0	0	0	0	1
1889:	0	0	0	0	0	0	0	0
1897:	0	1	0	0	1	0	0	1
1905:	0	1	1	0	2	1	1	0
1913:	1	0	0	0	0	0	0	0
1921:	0	0	0	0	1	0	0	1
1929:	0	0	1	0	1	0	0	0
1937:	0	0	0	1	0	0	1	1
1945:	0	1	1	1	1	0	1	0
1953:	0	0	0	0	0	0	0	0
1961:	0	0	1	0	0	0	2	0
1969:	0	0	0	0	0	0	0	0
1977:	0	0	0	0	0	0	0	2
1985:	0	1	0	0	0	0	1	0
1993:	0	0	2	1	1	1	0	0
2001:	1	1	1	0	0	0	0	0
2009:	0	0	0	2	0	0	0	1
2017:	0	0	1	0	0	0	0	0
2025:	0	0	1	0	0	1	0	0
2033:	0	0	0	0	0	1	2	0
2041:	1	0	0	0	1	0	0	0
2049:	0	0	0	0	1	1	0	0
2057:	0	0	0	0	1	0	0	0
2065:	0	0	0	1	0	1	0	0
2073:	0	1	1	0	0	0	0	1
2081:	0	0	1	0	0	1	0	0
2089:	0	0	1	0	0	0	2	0

2097:	0	0	0	3	0	2	1	1

Sample Title: BLANK

Channel								
2105:	1	1	0	0	0	0	0	0
2113:	0	0	0	0	1	1	0	0
2121:	0	0	0	0	0	0	0	1
2129:	0	0	0	0	0	0	0	0
2137:	0	0	0	1	0	1	0	0
2145:	2	0	0	0	0	1	0	0
2153:	0	0	0	0	0	0	1	0
2161:	0	0	0	0	0	0	0	1
2169:	0	0	0	0	0	0	0	1
2177:	1	0	0	0	0	0	0	1
2185:	0	1	0	1	0	0	0	0
2193:	0	0	0	2	0	0	0	1
2201:	0	0	0	0	0	0	1	1
2209:	1	0	0	0	0	1	0	0
2217:	0	0	0	0	0	0	0	1
2225:	0	0	2	0	2	0	0	0
2233:	0	0	0	0	0	0	0	0
2241:	0	0	0	1	0	0	0	0
2249:	0	0	0	0	0	0	0	1
2257:	1	0	0	0	0	0	0	0
2265:	0	0	0	0	0	1	0	0
2273:	2	0	0	0	0	1	0	0
2281:	0	0	1	0	0	0	0	0
2289:	0	0	0	0	0	0	0	0
2297:	0	1	0	2	0	0	0	0
2305:	0	0	1	0	0	0	0	0
2313:	1	1	1	1	0	0	0	0
2321:	0	0	1	0	1	0	0	0
2329:	0	0	0	0	0	0	0	1
2337:	0	0	0	0	0	0	2	1
2345:	0	0	0	0	0	0	0	0
2353:	0	0	1	0	2	0	0	0
2361:	0	0	0	0	1	0	0	0
2369:	0	1	0	0	2	0	0	0
2377:	0	0	0	1	0	0	0	0
2385:	0	0	1	0	0	0	0	0
2393:	0	2	0	0	0	2	1	0
2401:	0	0	0	0	1	0	0	1
2409:	0	0	0	1	0	0	1	1
2417:	0	0	0	0	0	0	0	0
2425:	1	0	0	0	0	0	0	0
2433:	1	1	0	0	1	0	0	0
2441:	0	0	0	0	0	0	0	0
2449:	0	0	1	1	0	0	1	0
2457:	0	0	0	0	2	0	0	0
2465:	0	1	0	0	0	0	0	0
2473:	0	0	1	0	0	1	0	1
2481:	0	0	0	1	1	0	0	0
2489:	0	0	0	0	0	0	0	1
2497:	0	1	0	0	0	0	2	0
2505:	0	0	0	0	0	0	0	1
2513:	0	0	0	0	1	0	0	0
2521:	0	0	0	1	0	0	0	1

2529:	0	1	2	1	0	0	1	0

Sample Title: BLANK

Channel								
2537:	0	0	1	0	0	0	1	1
2545:	0	0	0	0	0	0	0	0
2553:	0	0	0	0	0	0	0	1
2561:	0	0	0	0	0	1	0	0
2569:	0	0	0	0	0	1	0	0
2577:	1	0	0	0	0	0	1	0
2585:	0	0	0	1	0	0	0	0
2593:	0	0	0	0	0	0	2	0
2601:	0	0	1	0	0	0	0	0
2609:	0	0	0	0	0	2	0	0
2617:	1	0	0	0	0	0	0	0
2625:	0	0	0	0	0	0	0	1
2633:	0	1	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	1	1	0	0	0	0	0
2657:	0	0	0	0	0	0	0	1
2665:	0	0	0	0	1	0	0	0
2673:	0	0	1	0	1	0	1	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	1	0	2	0	1	0
2697:	0	0	0	0	0	1	0	0
2705:	0	1	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	1	0	0	1	0	0	0	0
2729:	0	0	1	1	0	0	1	0
2737:	0	1	0	0	1	0	0	0
2745:	1	0	0	0	1	0	0	0
2753:	0	1	0	0	0	0	0	0
2761:	0	0	0	1	0	0	0	0
2769:	1	1	0	0	0	0	0	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	1	0	0	1	1	0
2793:	0	0	0	0	0	1	1	1
2801:	0	0	0	1	0	0	0	0
2809:	0	1	0	0	1	1	0	0
2817:	1	0	0	1	0	0	0	0
2825:	1	0	0	0	0	0	0	0
2833:	0	1	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	1	0	0	0	0	0	0	0
2857:	0	1	0	0	1	0	0	0
2865:	1	0	1	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	1	0	0	0	0	1	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	1	0
2921:	0	0	0	0	0	1	0	0
2929:	0	0	0	0	1	0	0	0
2937:	0	0	0	0	0	0	0	1
2945:	0	1	1	0	0	0	0	0
2953:	0	0	0	0	1	1	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	1	0	0	0	0
2985:	0	1	0	0	0	0	0	1
2993:	1	0	0	0	0	0	0	0
3001:	1	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	1	0	0	0	0	0	0	0
3033:	1	1	0	0	0	0	0	0
3041:	0	0	0	0	0	0	1	0
3049:	0	0	0	0	1	0	1	0
3057:	0	0	0	0	0	0	1	0
3065:	0	0	0	0	0	1	0	0
3073:	1	0	0	0	0	0	1	0
3081:	0	0	1	0	0	0	0	0
3089:	0	0	1	0	0	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	1	0
3113:	1	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	1	0	0	0	1	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	1	0	0
3161:	0	0	1	0	0	0	0	0
3169:	0	0	0	0	0	0	0	1
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	1	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	1	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	1
3249:	0	0	1	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	1	0	1	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	1	1	0	0	0	0	0
3313:	1	0	0	0	0	0	0	0
3321:	1	0	0	0	1	0	0	0
3329:	0	0	0	0	0	0	1	0
3337:	0	0	0	0	1	0	0	1
3345:	0	1	0	0	1	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	1	0	0	1	0	0
3377:	0	0	0	0	0	0	1	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: BLANK

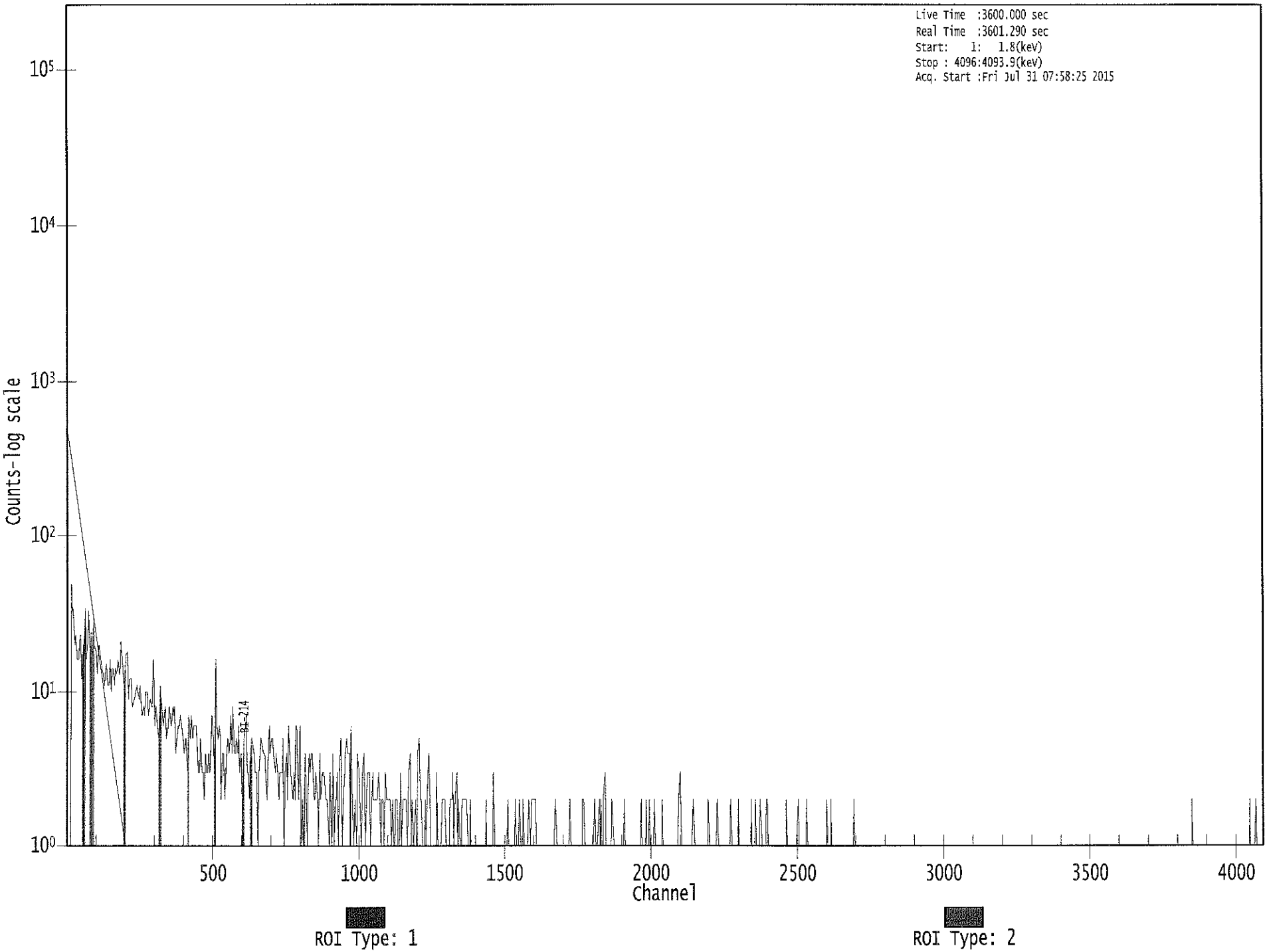
Channel								
3401:	0	0	0	1	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	1	1	0	0	0	0	0
3433:	0	0	0	0	0	0	0	1
3441:	1	0	0	0	0	0	0	0
3449:	0	0	0	1	0	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	1	0	0	1	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	1	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	1	0	0
3505:	0	1	0	0	0	0	1	0
3513:	0	0	1	0	1	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	1	0	0	1	0	0	0	0
3553:	1	0	0	0	0	0	0	0
3561:	0	0	0	0	1	0	0	1
3569:	1	0	0	0	0	0	0	0
3577:	0	1	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	1	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	0	1
3633:	0	0	1	0	1	0	0	0
3641:	0	1	0	0	1	0	0	0
3649:	0	1	1	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	1	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	1
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	1	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	1	0
3721:	0	0	0	0	0	0	1	0
3729:	1	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	1	1	1	1	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	1	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	1
3785:	0	0	0	1	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	1	0	0

Sample Title: BLANK

Channel								
3833:	0	0	1	0	0	0	0	0
3841:	1	0	0	0	0	0	0	0
3849:	2	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	1	0	0	0	0
3905:	1	0	0	0	1	0	0	0
3913:	0	0	0	0	1	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	1	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	1	0
3953:	0	0	0	0	1	1	0	0
3961:	0	0	0	1	0	0	0	0
3969:	0	0	0	1	0	0	0	0
3977:	0	0	0	0	0	0	0	1
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	1	0	0	0	0	1
4041:	0	0	0	0	0	0	2	0
4049:	1	0	0	0	0	0	0	0
4057:	0	0	1	0	0	0	1	0
4065:	0	0	0	2	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025410.CNF



00379

Apex-Gamma

Analysis Report for 1507047-03
FEEBRISID-3 028-029

C
8/3

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-03
Sample Description	: FEEBRISID-3 028-029
Sample Type	: SOIL
Sample Size	: 2.832E+02 grams
Facility	: Countroom
Sample Taken On	: 7/6/2015 7:50:48AM
Acquisition Started	: 8/3/2015 6:15:42AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3621.4 seconds
Dead Time	: 0.59 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 14 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 25452

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

Analysis Report for 1507047-03

FEEBRISID-3 028-029

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 7:16:04AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.25	26.50	0.0000	0.00
2	31.81	31.06	0.0000	0.00
3	46.65	45.91	0.0000	0.00
4	67.36	66.63	0.0000	0.00
5	76.31	75.58	0.0000	0.00
6	83.53	82.80	0.0000	0.00
7	87.79	87.07	0.0000	0.00
8	94.83	94.10	0.0000	0.00
9	143.93	143.22	0.0000	0.00
10	154.17	153.47	0.0000	0.00
11	186.17	185.48	0.0000	0.00
12	211.19	210.52	0.0000	0.00
13	236.02	235.35	0.0000	0.00
14	241.95	241.29	0.0000	0.00
15	256.43	255.78	0.0000	0.00
16	270.57	269.92	0.0000	0.00
17	284.98	284.34	0.0000	0.00
18	295.19	294.56	0.0000	0.00
19	300.65	300.01	0.0000	0.00
20	323.77	323.14	0.0000	0.00
21	329.68	329.06	0.0000	0.00
22	337.79	337.17	0.0000	0.00
23	351.78	351.16	0.0000	0.00
24	387.55	386.95	0.0000	0.00
25	402.85	402.26	0.0000	0.00
26	427.34	426.76	0.0000	0.00
27	445.43	444.85	0.0000	0.00
28	487.35	486.80	0.0000	0.00
29	510.83	510.29	0.0000	0.00
30	581.05	580.54	0.0000	0.00
31	609.18	608.68	0.0000	0.00
32	665.29	664.82	0.0000	0.00
33	703.01	702.56	0.0000	0.00
34	742.21	741.78	0.0000	0.00
35	767.93	767.51	0.0000	0.00
36	785.74	785.33	0.0000	0.00
37	806.13	805.74	0.0000	0.00
38	831.67	831.28	0.0000	0.00
39	839.09	838.72	0.0000	0.00
40	933.78	933.45	0.0000	0.00
41	963.69	963.38	0.0000	0.00
42	1051.11	1050.85	0.0000	0.00

Analysis Report for 1507047-03

FEEBRISID-3 028-029

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1089.69	1089.45	0.0000	0.00
44	1096.50	1096.26	0.0000	0.00
45	1119.93	1119.70	0.0000	0.00
46	1132.30	1132.08	0.0000	0.00
47	1154.98	1154.78	0.0000	0.00
48	1181.57	1181.38	0.0000	0.00
49	1206.40	1206.22	0.0000	0.00
50	1237.64	1237.48	0.0000	0.00
51	1252.94	1252.79	0.0000	0.00
52	1280.79	1280.66	0.0000	0.00
53	1377.20	1377.12	0.0000	0.00
54	1384.78	1384.71	0.0000	0.00
55	1400.88	1400.81	0.0000	0.00
56	1407.70	1407.64	0.0000	0.00
57	1460.63	1460.60	0.0000	0.00
58	1508.36	1508.36	0.0000	0.00
59	1583.14	1583.19	0.0000	0.00
60	1595.78	1595.83	0.0000	0.00
61	1660.53	1660.63	0.0000	0.00
62	1694.16	1694.28	0.0000	0.00
63	1729.05	1729.19	0.0000	0.00
64	1763.96	1764.12	0.0000	0.00
65	1837.82	1838.03	0.0000	0.00
66	1846.97	1847.19	0.0000	0.00
67	1871.41	1871.64	0.0000	0.00
68	2117.92	2118.32	0.0000	0.00
69	2176.39	2176.83	0.0000	0.00
70	2203.39	2203.85	0.0000	0.00
71	2278.92	2279.44	0.0000	0.00
72	2292.96	2293.49	0.0000	0.00
73	2371.18	2371.76	0.0000	0.00
74	2392.40	2393.00	0.0000	0.00
75	2398.39	2399.00	0.0000	0.00
76	2405.22	2405.83	0.0000	0.00
77	2446.60	2447.24	0.0000	0.00
78	2613.14	2613.91	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-03

FEEBRISID-3 028-029

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:16:04AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	27.25	23 -	39	26.50	8.05E+02	341.98	1.81E+04	2.51
m	2	31.81	23 -	39	31.06	2.93E+03	319.07	1.63E+04	2.27
	3	46.65	41 -	51	45.91	4.83E+03	512.70	3.27E+04	2.35
M	4	67.36	59 -	91	66.63	1.83E+04	644.88	4.45E+04	3.92
m	5	76.31	59 -	91	75.58	2.49E+04	715.12	4.62E+04	4.47
m	6	83.53	59 -	91	82.80	1.08E+04	746.98	4.80E+04	4.57
m	7	87.79	59 -	91	87.07	3.94E+03	503.13	3.04E+04	3.15
	8	94.83	91 -	98	94.10	1.70E+03	391.06	2.40E+04	2.11
	9	143.93	139 -	148	143.22	2.49E+03	420.80	2.39E+04	2.52
	10	154.17	149 -	158	153.47	1.62E+03	411.54	2.32E+04	2.37
	11	186.17	181 -	190	185.48	4.06E+03	386.22	1.89E+04	2.51
	12	211.19	208 -	214	210.52	3.50E+02	241.92	1.03E+04	4.28
M	13	236.02	231 -	246	235.35	2.19E+03	236.84	8.78E+03	2.43
m	14	241.95	231 -	246	241.29	5.56E+03	261.98	8.28E+03	2.47
	15	256.43	250 -	261	255.78	1.59E+03	327.38	1.26E+04	3.16
	16	270.57	264 -	276	269.92	3.73E+03	344.54	1.22E+04	3.66
	17	284.98	280 -	289	284.34	5.38E+02	253.90	8.87E+03	3.61
M	18	295.19	289 -	306	294.56	1.12E+04	276.41	5.81E+03	2.42
m	19	300.65	289 -	306	300.01	1.02E+03	387.12	1.09E+04	5.24
M	20	323.77	319 -	341	323.14	3.44E+02	169.33	5.10E+03	2.18
m	21	329.68	319 -	341	329.06	3.69E+02	171.12	5.09E+03	2.29
m	22	337.79	319 -	341	337.17	3.10E+02	209.44	6.53E+03	3.16
	23	351.78	346 -	355	351.16	1.98E+04	345.62	5.78E+03	2.59
	24	387.55	382 -	392	386.95	4.14E+02	208.35	5.59E+03	4.51
	25	402.85	397 -	408	402.26	1.01E+03	236.08	6.48E+03	5.34
	26	427.34	422 -	432	426.76	3.98E+02	201.68	5.13E+03	2.76
	27	445.43	441 -	448	444.85	1.59E+02	136.10	2.96E+03	2.15
	28	487.35	484 -	490	486.80	1.39E+02	111.06	2.12E+03	2.17
	29	510.83	506 -	515	510.29	2.05E+02	141.35	2.74E+03	4.41
	30	581.05	576 -	584	580.54	1.06E+02	123.05	2.25E+03	4.91
	31	609.18	603 -	613	608.68	1.23E+04	258.15	2.31E+03	2.57
	32	665.29	661 -	669	664.82	3.25E+02	103.99	1.46E+03	2.87
	33	703.01	699 -	706	702.56	8.04E+01	90.75	1.32E+03	3.77
	34	742.21	738 -	745	741.78	9.62E+01	86.63	1.18E+03	2.94
	35	767.93	762 -	773	767.51	1.05E+03	135.03	1.77E+03	2.65
	36	785.74	781 -	789	785.33	2.41E+02	96.22	1.27E+03	2.47
	37	806.13	802 -	810	805.74	2.45E+02	97.22	1.30E+03	3.22
M	38	831.67	827 -	843	831.28	2.31E+02	99.05	1.41E+03	3.12
m	39	839.09	827 -	843	838.72	1.23E+02	99.11	1.42E+03	3.12
	40	933.78	929 -	938	933.45	5.72E+02	105.80	1.28E+03	2.81

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	963.69	960	967	963.38	6.97E+01	76.39	9.31E+02	2.61
	42	1051.11	1048	1054	1050.85	5.86E+01	60.00	6.11E+02	4.18
M	43	1089.69	1087	1100	1089.45	6.85E+01	44.38	3.70E+02	2.34
m	44	1096.50	1087	1100	1096.26	9.31E+01	76.53	8.10E+02	3.44
	45	1119.93	1113	1127	1119.70	2.39E+03	147.07	1.28E+03	2.71
	46	1132.30	1129	1136	1132.08	8.85E+01	63.34	6.13E+02	4.43
	47	1154.98	1150	1159	1154.78	2.21E+02	85.51	9.14E+02	3.09
	48	1181.57	1178	1185	1181.38	4.89E+01	60.50	5.80E+02	1.59
	49	1206.40	1201	1212	1206.22	1.07E+02	83.14	8.13E+02	3.97
	50	1237.64	1230	1244	1237.48	8.75E+02	114.55	1.01E+03	2.78
	51	1252.94	1250	1256	1252.79	5.35E+01	51.93	4.51E+02	3.61
	52	1280.79	1276	1287	1280.66	1.98E+02	81.24	7.25E+02	2.78
M	53	1377.20	1370	1393	1377.12	5.43E+02	76.69	5.00E+02	3.23
m	54	1384.78	1370	1393	1384.71	1.77E+02	65.43	5.13E+02	3.23
M	55	1400.88	1396	1413	1400.81	2.22E+02	66.11	5.14E+02	2.99
m	56	1407.70	1396	1413	1407.64	3.29E+02	70.02	5.71E+02	3.10
	57	1460.63	1455	1464	1460.60	7.09E+01	68.43	6.24E+02	3.66
	58	1508.36	1503	1513	1508.36	2.33E+02	83.91	8.17E+02	3.33
	59	1583.14	1578	1588	1583.19	1.27E+02	63.24	4.59E+02	3.53
	60	1595.78	1590	1602	1595.83	8.80E+01	65.39	4.62E+02	9.71
	61	1660.53	1655	1669	1660.63	1.48E+02	58.70	3.02E+02	3.15
	62	1694.16	1690	1699	1694.28	2.99E+01	37.48	1.80E+02	5.43
	63	1729.05	1724	1736	1729.19	3.51E+02	56.94	2.22E+02	2.96
	64	1763.96	1757	1772	1764.12	1.57E+03	92.39	2.22E+02	3.03
M	65	1837.82	1833	1852	1838.03	4.27E+01	33.50	1.30E+02	3.31
m	66	1846.97	1833	1852	1847.19	2.33E+02	43.70	1.30E+02	3.31
	67	1871.41	1866	1876	1871.64	5.07E+01	33.31	1.21E+02	3.45
	68	2117.92	2109	2125	2118.32	1.07E+02	39.79	1.08E+02	3.20
	69	2176.39	2172	2180	2176.83	1.53E+01	15.41	2.73E+01	1.38
	70	2203.39	2199	2210	2203.85	4.37E+02	44.54	2.89E+01	2.99
	71	2278.92	2275	2285	2279.44	1.65E+01	12.19	1.10E+01	1.19
	72	2292.96	2289	2297	2293.49	2.21E+01	17.02	2.98E+01	2.93
	73	2371.18	2367	2376	2371.76	9.00E+00	10.30	1.00E+01	3.21
	74	2392.40	2390	2395	2393.00	5.00E+00	4.47	0.00E+00	2.98
	75	2398.39	2396	2401	2399.00	7.00E+00	5.29	0.00E+00	2.50
	76	2405.22	2403	2408	2405.83	6.00E+00	4.90	0.00E+00	2.74
	77	2446.60	2441	2453	2447.24	1.23E+02	22.18	0.00E+00	3.11
	78	2613.14	2609	2618	2613.91	1.76E+01	10.25	4.75E+00	3.47

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-03

FEEBRISID-3 028-029

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:16:04AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	27.25	23 -	39	8.05E+02	341.98	1.81E+04	2.21E+02
m	2	31.81	23 -	39	2.93E+03	319.07	1.63E+04	2.10E+02
	3	46.65	41 -	51	4.83E+03	512.70	3.27E+04	4.06E+02
M	4	67.36	59 -	91	1.83E+04	644.88	4.45E+04	3.47E+02
m	5	76.31	59 -	91	2.49E+04	715.12	4.62E+04	3.54E+02
m	6	83.53	59 -	91	1.08E+04	746.98	4.80E+04	3.60E+02
m	7	87.79	59 -	91	3.94E+03	503.13	3.04E+04	2.87E+02
	8	94.83	91 -	98	1.70E+03	391.06	2.40E+04	3.14E+02
	9	143.93	139 -	148	2.49E+03	420.80	2.39E+04	3.36E+02
	10	154.17	149 -	158	1.62E+03	411.54	2.32E+04	3.32E+02
	11	186.17	181 -	190	4.06E+03	386.22	1.89E+04	3.00E+02
	12	211.19	208 -	214	3.50E+02	241.92	1.03E+04	1.96E+02
M	13	236.02	231 -	246	2.19E+03	236.84	8.78E+03	1.54E+02
m	14	241.95	231 -	246	5.56E+03	261.98	8.28E+03	1.50E+02
	15	256.43	250 -	261	1.59E+03	327.38	1.26E+04	2.61E+02
	16	270.57	264 -	276	3.73E+03	344.54	1.22E+04	2.65E+02
	17	284.98	280 -	289	5.38E+02	253.90	8.87E+03	2.05E+02
M	18	295.19	289 -	306	1.12E+04	276.41	5.81E+03	1.25E+02
m	19	300.65	289 -	306	1.02E+03	387.12	1.09E+04	1.72E+02
M	20	323.77	319 -	341	3.44E+02	169.33	5.10E+03	1.17E+02
m	21	329.68	319 -	341	3.69E+02	171.12	5.09E+03	1.17E+02
m	22	337.79	319 -	341	3.10E+02	209.44	6.53E+03	1.33E+02
	23	351.78	346 -	355	1.98E+04	345.62	5.78E+03	1.65E+02
	24	387.55	382 -	392	4.14E+02	208.35	5.59E+03	1.68E+02
	25	402.85	397 -	408	1.01E+03	236.08	6.48E+03	1.87E+02
	26	427.34	422 -	432	3.98E+02	201.68	5.13E+03	1.63E+02
	27	445.43	441 -	448	1.59E+02	136.10	2.96E+03	1.10E+02
	28	487.35	484 -	490	1.39E+02	111.06	2.12E+03	8.92E+01
	29	510.83	506 -	515	2.05E+02	141.35	2.74E+03	1.14E+02
	30	581.05	576 -	584	1.06E+02	123.05	2.25E+03	9.97E+01
	31	609.18	603 -	613	1.23E+04	258.15	2.31E+03	1.08E+02
	32	665.29	661 -	669	3.25E+02	103.99	1.46E+03	8.02E+01
	33	703.01	699 -	706	8.04E+01	90.75	1.32E+03	7.31E+01
	34	742.21	738 -	745	9.62E+01	86.63	1.18E+03	6.94E+01
	35	767.93	762 -	773	1.05E+03	135.03	1.77E+03	9.74E+01
	36	785.74	781 -	789	2.41E+02	96.22	1.27E+03	7.49E+01
	37	806.13	802 -	810	2.45E+02	97.22	1.30E+03	7.57E+01
M	38	831.67	827 -	843	2.31E+02	99.05	1.41E+03	6.18E+01
m	39	839.09	827 -	843	1.23E+02	99.11	1.42E+03	6.20E+01
	40	933.78	929 -	938	5.72E+02	105.80	1.28E+03	7.76E+01
	41	963.69	960 -	967	6.97E+01	76.39	9.31E+02	6.13E+01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	42	1051.11	1048 -	1054	5.86E+01	60.00	6.11E+02	4.77E+01
M	43	1089.69	1087 -	1100	6.85E+01	44.38	3.70E+02	3.16E+01
m	44	1096.50	1087 -	1100	9.31E+01	76.53	8.10E+02	4.68E+01
	45	1119.93	1113 -	1127	2.39E+03	147.07	1.28E+03	9.03E+01
	46	1132.30	1129 -	1136	8.85E+01	63.34	6.13E+02	4.97E+01
	47	1154.98	1150 -	1159	2.21E+02	85.51	9.14E+02	6.59E+01
	48	1181.57	1178 -	1185	4.89E+01	60.50	5.80E+02	4.84E+01
	49	1206.40	1201 -	1212	1.07E+02	83.14	8.13E+02	6.62E+01
	50	1237.64	1230 -	1244	8.75E+02	114.55	1.01E+03	8.06E+01
	51	1252.94	1250 -	1256	5.35E+01	51.93	4.51E+02	4.10E+01
	52	1280.79	1276 -	1287	1.98E+02	81.24	7.25E+02	6.26E+01
M	53	1377.20	1370 -	1393	5.43E+02	76.69	5.00E+02	3.68E+01
m	54	1384.78	1370 -	1393	1.77E+02	65.43	5.13E+02	3.72E+01
M	55	1400.88	1396 -	1413	2.22E+02	66.11	5.14E+02	3.73E+01
m	56	1407.70	1396 -	1413	3.29E+02	70.02	5.71E+02	3.93E+01
	57	1460.63	1455 -	1464	7.09E+01	68.43	6.24E+02	5.45E+01
	58	1508.36	1503 -	1513	2.33E+02	83.91	8.17E+02	6.43E+01
	59	1583.14	1578 -	1588	1.27E+02	63.24	4.59E+02	4.86E+01
	60	1595.78	1590 -	1602	8.80E+01	65.39	4.62E+02	5.15E+01
	61	1660.53	1655 -	1669	1.48E+02	58.70	3.02E+02	4.39E+01
	62	1694.16	1690 -	1699	2.99E+01	37.48	1.80E+02	2.95E+01
	63	1729.05	1724 -	1736	3.51E+02	56.94	2.22E+02	3.52E+01
	64	1763.96	1757 -	1772	1.57E+03	92.39	2.22E+02	3.89E+01
M	65	1837.82	1833 -	1852	4.27E+01	33.50	1.30E+02	1.87E+01
m	66	1846.97	1833 -	1852	2.33E+02	43.70	1.30E+02	1.87E+01
	67	1871.41	1866 -	1876	5.07E+01	33.31	1.21E+02	2.48E+01
	68	2117.92	2109 -	2125	1.07E+02	39.79	1.08E+02	2.79E+01
	69	2176.39	2172 -	2180	1.53E+01	15.41	2.73E+01	1.09E+01
	70	2203.39	2199 -	2210	4.37E+02	44.54	2.89E+01	1.27E+01
	71	2278.92	2275 -	2285	1.65E+01	12.19	1.10E+01	7.47E+00
	72	2292.96	2289 -	2297	2.21E+01	17.02	2.98E+01	1.17E+01
	73	2371.18	2367 -	2376	9.00E+00	10.30	1.00E+01	6.88E+00
	74	2392.40	2390 -	2395	5.00E+00	4.47	0.00E+00	0.00E+00
	75	2398.39	2396 -	2401	7.00E+00	5.29	0.00E+00	0.00E+00
	76	2405.22	2403 -	2408	6.00E+00	4.90	0.00E+00	0.00E+00
	77	2446.60	2441 -	2453	1.23E+02	22.18	0.00E+00	0.00E+00
	78	2613.14	2609 -	2618	1.76E+01	10.25	4.75E+00	4.83E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-03

FEEBRISID-3 028-029

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 7:16:04AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	27.25	23 -	39	26.50	8.05E+02	341.98	1.81E+04	.....
m	2	31.81	23 -	39	31.06	2.93E+03	319.07	1.63E+04	.....
	3	46.65	41 -	51	45.91	4.83E+03	512.70	3.27E+04	PB-210
M	4	67.36	59 -	91	66.63	1.83E+04	644.88	4.45E+04	TH-230
									TA-182
									TI-44
									TM-171
m	5	76.31	59 -	91	75.58	2.49E+04	715.12	4.62E+04	.....
m	6	83.53	59 -	91	82.80	1.08E+04	746.98	4.80E+04	TH-231
m	7	87.79	59 -	91	87.07	3.94E+03	503.13	3.04E+04	SN-126
									CD-109
									LU-176
	8	94.83	91 -	98	94.10	1.70E+03	391.06	2.40E+04	.....
	9	143.93	139 -	148	143.22	2.49E+03	420.80	2.39E+04	U-235
	10	154.17	149 -	158	153.47	1.62E+03	411.54	2.32E+04	CS-136
	11	186.17	181 -	190	185.48	4.06E+03	386.22	1.89E+04	RA-226
	12	211.19	208 -	214	210.52	3.50E+02	241.92	1.03E+04	.....
M	13	236.02	231 -	246	235.35	2.19E+03	236.84	8.78E+03	TH-227
									NB-95M
m	14	241.95	231 -	246	241.29	5.56E+03	261.98	8.28E+03	RA-224
	15	256.43	250 -	261	255.78	1.59E+03	327.38	1.26E+04	TH-227
	16	270.57	264 -	276	269.92	3.73E+03	344.54	1.22E+04	.....
	17	284.98	280 -	289	284.34	5.38E+02	253.90	8.87E+03	I-131
									PM-149
M	18	295.19	289 -	306	294.56	1.12E+04	276.41	5.81E+03	PB-214
m	19	300.65	289 -	306	300.01	1.02E+03	387.12	1.09E+04	GA-67
									PB-212
									BI-210M
M	20	323.77	319 -	341	323.14	3.44E+02	169.33	5.10E+03	RA-223
m	21	329.68	319 -	341	329.06	3.69E+02	171.12	5.09E+03	LA-140
m	22	337.79	319 -	341	337.17	3.10E+02	209.44	6.53E+03	AC-228
	23	351.78	346 -	355	351.16	1.98E+04	345.62	5.78E+03	PB-214
	24	387.55	382 -	392	386.95	4.14E+02	208.35	5.59E+03	.....
	25	402.85	397 -	408	402.26	1.01E+03	236.08	6.48E+03	.....
	26	427.34	422 -	432	426.76	3.98E+02	201.68	5.13E+03	SB-125
	27	445.43	441 -	448	444.85	1.59E+02	136.10	2.96E+03	.....
	28	487.35	484 -	490	486.80	1.39E+02	111.06	2.12E+03	LA-140
	29	510.83	506 -	515	510.29	2.05E+02	141.35	2.74E+03	.....
	30	581.05	576 -	584	580.54	1.06E+02	123.05	2.25E+03	.....
	31	609.18	603 -	613	608.68	1.23E+04	258.15	2.31E+03	BI-214
	32	665.29	661 -	669	664.82	3.25E+02	103.99	1.46E+03	CE-143

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	33	703.01	699 -	706	702.56	8.04E+01	90.75	1.32E+03	NB-94
	34	742.21	738 -	745	741.78	9.62E+01	86.63	1.18E+03	.....
	35	767.93	762 -	773	767.51	1.05E+03	135.03	1.77E+03	.....
	36	785.74	781 -	789	785.33	2.41E+02	96.22	1.27E+03	.....
	37	806.13	802 -	810	805.74	2.45E+02	97.22	1.30E+03	.....
M	38	831.67	827 -	843	831.28	2.31E+02	99.05	1.41E+03	PB-211
m	39	839.09	827 -	843	838.72	1.23E+02	99.11	1.42E+03	.....
	40	933.78	929 -	938	933.45	5.72E+02	105.80	1.28E+03	.....
	41	963.69	960 -	967	963.38	6.97E+01	76.39	9.31E+02	EU-152
	42	1051.11	1048 -	1054	1050.85	5.86E+01	60.00	6.11E+02	.....
M	43	1089.69	1087 -	1100	1089.45	6.85E+01	44.38	3.70E+02	.....
m	44	1096.50	1087 -	1100	1096.26	9.31E+01	76.53	8.10E+02	.....
	45	1119.93	1113 -	1127	1119.70	2.39E+03	147.07	1.28E+03	BI-214 SC-46
	46	1132.30	1129 -	1136	1132.08	8.85E+01	63.34	6.13E+02	I-135
	47	1154.98	1150 -	1159	1154.78	2.21E+02	85.51	9.14E+02	.....
	48	1181.57	1178 -	1185	1181.38	4.89E+01	60.50	5.80E+02	.....
	49	1206.40	1201 -	1212	1206.22	1.07E+02	83.14	8.13E+02	.....
	50	1237.64	1230 -	1244	1237.48	8.75E+02	114.55	1.01E+03	CO-56
	51	1252.94	1250 -	1256	1252.79	5.35E+01	51.93	4.51E+02	.....
	52	1280.79	1276 -	1287	1280.66	1.98E+02	81.24	7.25E+02	.....
M	53	1377.20	1370 -	1393	1377.12	5.43E+02	76.69	5.00E+02	.....
m	54	1384.78	1370 -	1393	1384.71	1.77E+02	65.43	5.13E+02	AG-110M
M	55	1400.88	1396 -	1413	1400.81	2.22E+02	66.11	5.14E+02	.....
m	56	1407.70	1396 -	1413	1407.64	3.29E+02	70.02	5.71E+02	EU-152
	57	1460.63	1455 -	1464	1460.60	7.09E+01	68.43	6.24E+02	K-40
	58	1508.36	1503 -	1513	1508.36	2.33E+02	83.91	8.17E+02	.....
	59	1583.14	1578 -	1588	1583.19	1.27E+02	63.24	4.59E+02	.....
	60	1595.78	1590 -	1602	1595.83	8.80E+01	65.39	4.62E+02	LA-140
	61	1660.53	1655 -	1669	1660.63	1.48E+02	58.70	3.02E+02	.....
	62	1694.16	1690 -	1699	1694.28	2.99E+01	37.48	1.80E+02	.....
	63	1729.05	1724 -	1736	1729.19	3.51E+02	56.94	2.22E+02	.....
	64	1763.96	1757 -	1772	1764.12	1.57E+03	92.39	2.22E+02	BI-214
M	65	1837.82	1833 -	1852	1838.03	4.27E+01	33.50	1.30E+02	.....
m	66	1846.97	1833 -	1852	1847.19	2.33E+02	43.70	1.30E+02	.....
	67	1871.41	1866 -	1876	1871.64	5.07E+01	33.31	1.21E+02	.....
	68	2117.92	2109 -	2125	2118.32	1.07E+02	39.79	1.08E+02	.....
	69	2176.39	2172 -	2180	2176.83	1.53E+01	15.41	2.73E+01	.....
	70	2203.39	2199 -	2210	2203.85	4.37E+02	44.54	2.89E+01	BI-214
	71	2278.92	2275 -	2285	2279.44	1.65E+01	12.19	1.10E+01	.....
	72	2292.96	2289 -	2297	2293.49	2.21E+01	17.02	2.98E+01	.....
	73	2371.18	2367 -	2376	2371.76	9.00E+00	10.30	1.00E+01	.....
	74	2392.40	2390 -	2395	2393.00	5.00E+00	4.47	0.00E+00	.....
	75	2398.39	2396 -	2401	2399.00	7.00E+00	5.29	0.00E+00	.....
	76	2405.22	2403 -	2408	2405.83	6.00E+00	4.90	0.00E+00	.....
	77	2446.60	2441 -	2453	2447.24	1.23E+02	22.18	0.00E+00	.....
	78	2613.14	2609 -	2618	2613.91	1.76E+01	10.25	4.75E+00	.....

Analysis Report for 1507047-03

FEEBRISID-3 028-029

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 7:16:04AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	27.25	8.05E+02	341.98	2.98E-02	1.78E-03
m	2	31.81	2.93E+03	319.07	2.91E-02	1.78E-03
	3	46.65	4.83E+03	512.70	2.63E-02	1.78E-03
M	4	67.36	1.83E+04	644.88	2.26E-02	1.74E-03
m	5	76.31	2.49E+04	715.12	2.12E-02	1.69E-03
m	6	83.53	1.08E+04	746.98	2.02E-02	1.66E-03
m	7	87.79	3.94E+03	503.13	1.96E-02	1.63E-03
	8	94.83	1.70E+03	391.06	1.88E-02	1.61E-03
	9	143.93	2.49E+03	420.80	1.42E-02	1.37E-03
	10	154.17	1.62E+03	411.54	1.35E-02	1.30E-03
	11	186.17	4.06E+03	386.22	1.16E-02	1.15E-03
	12	211.19	3.50E+02	241.92	1.05E-02	1.07E-03
M	13	236.02	2.19E+03	236.84	9.51E-03	9.95E-04
m	14	241.95	5.56E+03	261.98	9.30E-03	9.77E-04
	15	256.43	1.59E+03	327.38	8.84E-03	9.32E-04
	16	270.57	3.73E+03	344.54	8.43E-03	8.88E-04
	17	284.98	5.38E+02	253.90	8.04E-03	8.55E-04
M	18	295.19	1.12E+04	276.41	7.78E-03	8.43E-04
m	19	300.65	1.02E+03	387.12	7.65E-03	8.37E-04
M	20	323.77	3.44E+02	169.33	7.15E-03	8.11E-04
m	21	329.68	3.69E+02	171.12	7.03E-03	8.05E-04
m	22	337.79	3.10E+02	209.44	6.87E-03	7.96E-04
	23	351.78	1.98E+04	345.62	6.61E-03	7.80E-04
	24	387.55	4.14E+02	208.35	6.03E-03	7.41E-04
	25	402.85	1.01E+03	236.08	5.81E-03	7.20E-04
	26	427.34	3.98E+02	201.68	5.49E-03	6.84E-04
	27	445.43	1.59E+02	136.10	5.27E-03	6.57E-04
	28	487.35	1.39E+02	111.06	4.83E-03	5.96E-04
	29	510.83	2.05E+02	141.35	4.61E-03	5.61E-04
	30	581.05	1.06E+02	123.05	4.06E-03	4.58E-04
	31	609.18	1.23E+04	258.15	3.88E-03	4.17E-04
	32	665.29	3.25E+02	103.99	3.55E-03	3.38E-04
	33	703.01	8.04E+01	90.75	3.36E-03	3.17E-04
	34	742.21	9.62E+01	86.63	3.19E-03	2.95E-04

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	35	767.93	1.05E+03	135.03	3.08E-03	2.81E-04
	36	785.74	2.41E+02	96.22	3.02E-03	2.71E-04
	37	806.13	2.45E+02	97.22	2.94E-03	2.59E-04
M	38	831.67	2.31E+02	99.05	2.85E-03	2.45E-04
m	39	839.09	1.23E+02	99.11	2.83E-03	2.41E-04
	40	933.78	5.72E+02	105.80	2.55E-03	2.03E-04
	41	963.69	6.97E+01	76.39	2.47E-03	2.00E-04
	42	1051.11	5.86E+01	60.00	2.28E-03	1.88E-04
M	43	1089.69	6.85E+01	44.38	2.20E-03	1.83E-04
m	44	1096.50	9.31E+01	76.53	2.19E-03	1.82E-04
	45	1119.93	2.39E+03	147.07	2.14E-03	1.79E-04
	46	1132.30	8.85E+01	63.34	2.12E-03	1.78E-04
	47	1154.98	2.21E+02	85.51	2.08E-03	1.75E-04
	48	1181.57	4.89E+01	60.50	2.04E-03	1.75E-04
	49	1206.40	1.07E+02	83.14	2.00E-03	1.82E-04
	50	1237.64	8.75E+02	114.55	1.95E-03	1.90E-04
	51	1252.94	5.35E+01	51.93	1.93E-03	1.94E-04
	52	1280.79	1.98E+02	81.24	1.89E-03	2.02E-04
M	53	1377.20	5.43E+02	76.69	1.77E-03	2.06E-04
m	54	1384.78	1.77E+02	65.43	1.77E-03	2.05E-04
M	55	1400.88	2.22E+02	66.11	1.75E-03	2.01E-04
m	56	1407.70	3.29E+02	70.02	1.74E-03	2.00E-04
	57	1460.63	7.09E+01	68.43	1.68E-03	1.89E-04
	58	1508.36	2.33E+02	83.91	1.64E-03	1.79E-04
	59	1583.14	1.27E+02	63.24	1.57E-03	1.64E-04
	60	1595.78	8.80E+01	65.39	1.56E-03	1.61E-04
	61	1660.53	1.48E+02	58.70	1.51E-03	1.47E-04
	62	1694.16	2.99E+01	37.48	1.48E-03	1.41E-04
	63	1729.05	3.51E+02	56.94	1.46E-03	1.33E-04
	64	1763.96	1.57E+03	92.39	1.43E-03	1.26E-04
M	65	1837.82	4.27E+01	33.50	1.39E-03	1.11E-04
m	66	1846.97	2.33E+02	43.70	1.38E-03	1.11E-04
	67	1871.41	5.07E+01	33.31	1.37E-03	1.11E-04
	68	2117.92	1.07E+02	39.79	1.24E-03	1.11E-04
	69	2176.39	1.53E+01	15.41	1.22E-03	1.11E-04
	70	2203.39	4.37E+02	44.54	1.21E-03	1.11E-04
	71	2278.92	1.65E+01	12.19	1.18E-03	1.11E-04
	72	2292.96	2.21E+01	17.02	1.17E-03	1.11E-04
	73	2371.18	9.00E+00	10.30	1.15E-03	1.11E-04
	74	2392.40	5.00E+00	4.47	1.14E-03	1.11E-04
	75	2398.39	7.00E+00	5.29	1.14E-03	1.11E-04
	76	2405.22	6.00E+00	4.90	1.13E-03	1.11E-04
	77	2446.60	1.23E+02	22.18	1.12E-03	1.11E-04
	78	2613.14	1.76E+01	10.25	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

Analysis Report for 1507047-03

FEEBRISID-3 028-029

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 7:16:04AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	27.25	8.05E+02	341.98			8.05E+02	3.42E+02
m	2	31.81	2.93E+03	319.07			2.93E+03	3.19E+02
	3	46.65	4.83E+03	512.70	2.93E+01	8.52E+00	4.80E+03	5.13E+02
M	4	67.36	1.83E+04	644.88			1.83E+04	6.45E+02
m	5	76.31	2.49E+04	715.12			2.49E+04	7.15E+02
m	6	83.53	1.08E+04	746.98			1.08E+04	7.47E+02
m	7	87.79	3.94E+03	503.13			3.94E+03	5.03E+02
	8	94.83	1.70E+03	391.06			1.70E+03	3.91E+02
	9	143.93	2.49E+03	420.80	1.23E+01	7.52E+00	2.48E+03	4.21E+02
	10	154.17	1.62E+03	411.54			1.62E+03	4.12E+02
	11	186.17	4.06E+03	386.22	2.05E+01	1.20E+01	4.04E+03	3.86E+02
	12	211.19	3.50E+02	241.92			3.50E+02	2.42E+02
M	13	236.02	2.19E+03	236.84			2.19E+03	2.37E+02
m	14	241.95	5.56E+03	261.98			5.56E+03	2.62E+02
	15	256.43	1.59E+03	327.38			1.59E+03	3.27E+02
	16	270.57	3.73E+03	344.54			3.73E+03	3.45E+02
	17	284.98	5.38E+02	253.90			5.38E+02	2.54E+02
M	18	295.19	1.12E+04	276.41			1.12E+04	2.76E+02
m	19	300.65	1.02E+03	387.12			1.02E+03	3.87E+02
M	20	323.77	3.44E+02	169.33			3.44E+02	1.69E+02
m	21	329.68	3.69E+02	171.12			3.69E+02	1.71E+02
m	22	337.79	3.10E+02	209.44			3.10E+02	2.09E+02
	23	351.78	1.98E+04	345.62			1.98E+04	3.46E+02
	24	387.55	4.14E+02	208.35			4.14E+02	2.08E+02
	25	402.85	1.01E+03	236.08			1.01E+03	2.36E+02
	26	427.34	3.98E+02	201.68			3.98E+02	2.02E+02
	27	445.43	1.59E+02	136.10			1.59E+02	1.36E+02
	28	487.35	1.39E+02	111.06			1.39E+02	1.11E+02
	29	510.83	2.05E+02	141.35	4.72E+01	4.90E+00	1.58E+02	1.41E+02
	30	581.05	1.06E+02	123.05			1.06E+02	1.23E+02
	31	609.18	1.23E+04	258.15			1.23E+04	2.58E+02
	32	665.29	3.25E+02	103.99			3.25E+02	1.04E+02
	33	703.01	8.04E+01	90.75			8.04E+01	9.08E+01
	34	742.21	9.62E+01	86.63			9.62E+01	8.66E+01
	35	767.93	1.05E+03	135.03			1.05E+03	1.35E+02
	36	785.74	2.41E+02	96.22			2.41E+02	9.62E+01
	37	806.13	2.45E+02	97.22			2.45E+02	9.72E+01
M	38	831.67	2.31E+02	99.05			2.31E+02	9.90E+01
m	39	839.09	1.23E+02	99.11			1.23E+02	9.91E+01
	40	933.78	5.72E+02	105.80			5.72E+02	1.06E+02
	41	963.69	6.97E+01	76.39			6.97E+01	7.64E+01
	42	1051.11	5.86E+01	60.00			5.86E+01	6.00E+01
M	43	1089.69	6.85E+01	44.38			6.85E+01	4.44E+01
m	44	1096.50	9.31E+01	76.53			9.31E+01	7.65E+01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	45	1119.93	2.39E+03	147.07			2.39E+03	1.47E+02
	46	1132.30	8.85E+01	63.34			8.85E+01	6.33E+01
	47	1154.98	2.21E+02	85.51			2.21E+02	8.55E+01
	48	1181.57	4.89E+01	60.50			4.89E+01	6.05E+01
	49	1206.40	1.07E+02	83.14			1.07E+02	8.31E+01
	50	1237.64	8.75E+02	114.55			8.75E+02	1.15E+02
	51	1252.94	5.35E+01	51.93			5.35E+01	5.19E+01
	52	1280.79	1.98E+02	81.24			1.98E+02	8.12E+01
M	53	1377.20	5.43E+02	76.69			5.43E+02	7.67E+01
m	54	1384.78	1.77E+02	65.43			1.77E+02	6.54E+01
M	55	1400.88	2.22E+02	66.11			2.22E+02	6.61E+01
m	56	1407.70	3.29E+02	70.02			3.29E+02	7.00E+01
	57	1460.63	7.09E+01	68.43			7.09E+01	6.84E+01
	58	1508.36	2.33E+02	83.91			2.33E+02	8.39E+01
	59	1583.14	1.27E+02	63.24			1.27E+02	6.32E+01
	60	1595.78	8.80E+01	65.39			8.80E+01	6.54E+01
	61	1660.53	1.48E+02	58.70			1.48E+02	5.87E+01
	62	1694.16	2.99E+01	37.48			2.99E+01	3.75E+01
	63	1729.05	3.51E+02	56.94			3.51E+02	5.69E+01
	64	1763.96	1.57E+03	92.39			1.57E+03	9.24E+01
M	65	1837.82	4.27E+01	33.50			4.27E+01	3.35E+01
m	66	1846.97	2.33E+02	43.70			2.33E+02	4.37E+01
	67	1871.41	5.07E+01	33.31			5.07E+01	3.33E+01
	68	2117.92	1.07E+02	39.79			1.07E+02	3.98E+01
	69	2176.39	1.53E+01	15.41			1.53E+01	1.54E+01
	70	2203.39	4.37E+02	44.54			4.37E+02	4.45E+01
	71	2278.92	1.65E+01	12.19			1.65E+01	1.22E+01
	72	2292.96	2.21E+01	17.02			2.21E+01	1.70E+01
	73	2371.18	9.00E+00	10.30			9.00E+00	1.03E+01
	74	2392.40	5.00E+00	4.47			5.00E+00	4.47E+00
	75	2398.39	7.00E+00	5.29			7.00E+00	5.29E+00
	76	2405.22	6.00E+00	4.90			6.00E+00	4.90E+00
	77	2446.60	1.23E+02	22.18			1.23E+02	2.22E+01
	78	2613.14	1.76E+01	10.25			1.76E+01	1.02E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-03

FEEBRISID-3 028-029

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 7:16:04AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	27.25	8.05E+02	341.98			8.05E+02	3.42E+02
m	2	31.81	2.93E+03	319.07			2.93E+03	3.19E+02
	3	46.65	4.83E+03	512.70	2.93E+01	8.52E+00	4.80E+03	5.13E+02
M	4	67.36	1.83E+04	644.88			1.83E+04	6.45E+02
m	5	76.31	2.49E+04	715.12			2.49E+04	7.15E+02
m	6	83.53	1.08E+04	746.98			1.08E+04	7.47E+02
m	7	87.79	3.94E+03	503.13			3.94E+03	5.03E+02
	8	94.83	1.70E+03	391.06			1.70E+03	3.91E+02
	9	143.93	2.49E+03	420.80	1.23E+01	7.52E+00	2.48E+03	4.21E+02
	10	154.17	1.62E+03	411.54			1.62E+03	4.12E+02
	11	186.17	4.06E+03	386.22	2.05E+01	1.20E+01	4.04E+03	3.86E+02
	12	211.19	3.50E+02	241.92			3.50E+02	2.42E+02
M	13	236.02	2.19E+03	236.84			2.19E+03	2.37E+02
m	14	241.95	5.56E+03	261.98			5.56E+03	2.62E+02
	15	256.43	1.59E+03	327.38			1.59E+03	3.27E+02
	16	270.57	3.73E+03	344.54			3.73E+03	3.45E+02
	17	284.98	5.38E+02	253.90			5.38E+02	2.54E+02
M	18	295.19	1.12E+04	276.41			1.12E+04	2.76E+02
m	19	300.65	1.02E+03	387.12			1.02E+03	3.87E+02
M	20	323.77	3.44E+02	169.33			3.44E+02	1.69E+02
m	21	329.68	3.69E+02	171.12			3.69E+02	1.71E+02
m	22	337.79	3.10E+02	209.44			3.10E+02	2.09E+02
	23	351.78	1.98E+04	345.62			1.98E+04	3.46E+02
	24	387.55	4.14E+02	208.35			4.14E+02	2.08E+02
	25	402.85	1.01E+03	236.08			1.01E+03	2.36E+02
	26	427.34	3.98E+02	201.68			3.98E+02	2.02E+02
	27	445.43	1.59E+02	136.10			1.59E+02	1.36E+02
	28	487.35	1.39E+02	111.06			1.39E+02	1.11E+02
	29	510.83	2.05E+02	141.35	4.72E+01	4.90E+00	1.58E+02	1.41E+02
	30	581.05	1.06E+02	123.05			1.06E+02	1.23E+02
	31	609.18	1.23E+04	258.15			1.23E+04	2.58E+02
	32	665.29	3.25E+02	103.99			3.25E+02	1.04E+02
	33	703.01	8.04E+01	90.75			8.04E+01	9.08E+01
	34	742.21	9.62E+01	86.63			9.62E+01	8.66E+01
	35	767.93	1.05E+03	135.03			1.05E+03	1.35E+02
	36	785.74	2.41E+02	96.22			2.41E+02	9.62E+01
	37	806.13	2.45E+02	97.22			2.45E+02	9.72E+01
M	38	831.67	2.31E+02	99.05			2.31E+02	9.90E+01
m	39	839.09	1.23E+02	99.11			1.23E+02	9.91E+01
	40	933.78	5.72E+02	105.80			5.72E+02	1.06E+02
	41	963.69	6.97E+01	76.39			6.97E+01	7.64E+01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	42	1051.11	5.86E+01	60.00			5.86E+01	6.00E+01
M	43	1089.69	6.85E+01	44.38			6.85E+01	4.44E+01
m	44	1096.50	9.31E+01	76.53			9.31E+01	7.65E+01
	45	1119.93	2.39E+03	147.07			2.39E+03	1.47E+02
	46	1132.30	8.85E+01	63.34			8.85E+01	6.33E+01
	47	1154.98	2.21E+02	85.51			2.21E+02	8.55E+01
	48	1181.57	4.89E+01	60.50			4.89E+01	6.05E+01
	49	1206.40	1.07E+02	83.14			1.07E+02	8.31E+01
	50	1237.64	8.75E+02	114.55			8.75E+02	1.15E+02
	51	1252.94	5.35E+01	51.93			5.35E+01	5.19E+01
	52	1280.79	1.98E+02	81.24			1.98E+02	8.12E+01
M	53	1377.20	5.43E+02	76.69			5.43E+02	7.67E+01
m	54	1384.78	1.77E+02	65.43			1.77E+02	6.54E+01
M	55	1400.88	2.22E+02	66.11			2.22E+02	6.61E+01
m	56	1407.70	3.29E+02	70.02			3.29E+02	7.00E+01
	57	1460.63	7.09E+01	68.43			7.09E+01	6.84E+01
	58	1508.36	2.33E+02	83.91			2.33E+02	8.39E+01
	59	1583.14	1.27E+02	63.24			1.27E+02	6.32E+01
	60	1595.78	8.80E+01	65.39			8.80E+01	6.54E+01
	61	1660.53	1.48E+02	58.70			1.48E+02	5.87E+01
	62	1694.16	2.99E+01	37.48			2.99E+01	3.75E+01
	63	1729.05	3.51E+02	56.94			3.51E+02	5.69E+01
	64	1763.96	1.57E+03	92.39			1.57E+03	9.24E+01
M	65	1837.82	4.27E+01	33.50			4.27E+01	3.35E+01
m	66	1846.97	2.33E+02	43.70			2.33E+02	4.37E+01
	67	1871.41	5.07E+01	33.31			5.07E+01	3.33E+01
	68	2117.92	1.07E+02	39.79			1.07E+02	3.98E+01
	69	2176.39	1.53E+01	15.41			1.53E+01	1.54E+01
	70	2203.39	4.37E+02	44.54			4.37E+02	4.45E+01
	71	2278.92	1.65E+01	12.19			1.65E+01	1.22E+01
	72	2292.96	2.21E+01	17.02			2.21E+01	1.70E+01
	73	2371.18	9.00E+00	10.30			9.00E+00	1.03E+01
	74	2392.40	5.00E+00	4.47			5.00E+00	4.47E+00
	75	2398.39	7.00E+00	5.29			7.00E+00	5.29E+00
	76	2405.22	6.00E+00	4.90			6.00E+00	4.90E+00
	77	2446.60	1.23E+02	22.18			1.23E+02	2.22E+01
	78	2613.14	1.76E+01	10.25			1.76E+01	1.02E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1507047-03

FEEBRISID-3 028-029

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.995	1460.81	*	10.67	1.05E+01	1.02E+01
NB-95M	0.729	235.69	*	25.00	5.22E+03	7.87E+02
CD-109	0.991	88.03	*	3.72	1.49E+02	2.44E+01
SN-126	0.992	87.57	*	37.00	1.44E+01	2.19E+00
LA-140	0.719	328.77	*	20.50	3.09E+01	1.48E+01
		487.03	*	45.50	7.64E+00	6.17E+00
		815.85		23.50		
		1596.49	*	95.49	7.12E+00	5.34E+00
PM-149	0.394	285.90	*	3.10	3.65E+05	1.77E+05
TM-171	0.936	66.72	*	0.14	1.58E+04	1.34E+03
TA-182	0.359	67.75	*	41.20	6.19E+01	5.24E+00
		1121.30		34.90		
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.996	46.50	*	4.25	1.14E+02	1.45E+01
BI-214	0.979	609.31	*	46.30	1.82E+02	2.00E+01
		1120.29	*	15.10	1.96E+02	2.03E+01
		1764.49	*	15.80	1.84E+02	1.94E+01
		2204.22	*	4.98	1.93E+02	2.65E+01
PB-214	0.998	295.21	*	19.19	1.98E+02	2.20E+01
		351.92	*	37.19	2.13E+02	2.54E+01
RA-223	0.998	323.87	*	3.88	3.29E+01	1.66E+01
RA-224	0.860	240.98	*	3.95	4.01E+02	4.62E+01
RA-226	1.000	186.21	*	3.28	2.81E+02	5.16E+02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:16:04AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.		Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.25	2.23543E-01	21.25		

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	2	31.81	8.14160E-01	5.44		
m	5	76.31	6.92665E+00	1.43		
m	6	83.53	2.99901E+00	3.46	Tol.	TH-231
	8	94.83	4.71509E-01	11.52		
	9	143.93	6.89078E-01	8.48	Tol.	U-235
	10	154.17	4.50184E-01	12.70	Sum	
	12	211.19	9.73597E-02	34.51		
	15	256.43	4.42143E-01	10.28	Tol.	TH-227
	16	270.57	1.03595E+00	4.62		
m	19	300.65	2.82751E-01	19.02	Tol.	BI-210M PB-212
m	22	337.79	8.61049E-02	33.78	Tol.	AC-228
	24	387.55	1.14884E-01	25.19		
	25	402.85	2.80194E-01	11.70		
	26	427.34	1.10498E-01	25.35	Sum	
	27	445.43	4.41202E-02	42.84		
	29	510.83	4.37924E-02	44.86	Sum	
	30	581.05	2.93217E-02	58.29	Sum	
	32	665.29	9.03869E-02	15.98	Tol.	CE-143
	33	703.01	2.23403E-02	56.42	Sum	
	34	742.21	2.67234E-02	45.02	D-Esc	
	35	767.93	2.90762E-01	6.45		
	36	785.74	6.68166E-02	20.00		
	37	806.13	6.80110E-02	19.85		
M	38	831.67	6.40741E-02	21.47	Tol.	PB-211
m	39	839.09	3.41635E-02	40.29	Sum	
	40	933.78	1.58801E-01	9.25	Sum	
	41	963.69	1.93632E-02	54.80	Tol.	EU-152
	42	1051.11	1.62775E-02	51.19		
M	43	1089.69	1.90251E-02	32.40		
m	44	1096.50	2.58582E-02	41.11	Sum	
	46	1132.30	2.45942E-02	35.77	Tol.	I-135
	47	1154.98	6.13987E-02	19.34		
	48	1181.57	1.35701E-02	61.92	D-Esc	
	49	1206.40	2.96156E-02	38.99		
	50	1237.64	2.43189E-01	6.54	Tol.	CO-56
	51	1252.94	1.48641E-02	48.52	S-Esc	
	52	1280.79	5.51131E-02	20.47		
M	53	1377.20	1.50723E-01	7.07		
m	54	1384.78	4.91202E-02	18.50	Tol.	AG-110M
M	55	1400.88	6.16965E-02	14.88		
m	56	1407.70	9.14115E-02	10.64	Tol.	EU-152
	58	1508.36	6.46087E-02	18.04		
	59	1583.14	3.53564E-02	24.84		
	61	1660.53	4.10707E-02	19.85		
	62	1694.16	8.31134E-03	62.64		
	63	1729.05	9.75547E-02	8.11	Sum	
M	65	1837.82	1.18579E-02	39.23	Sum	
m	66	1846.97	6.47214E-02	9.38		
	67	1871.41	1.40916E-02	32.83		
	68	2117.92	2.97127E-02	18.60		
	69	2176.39	4.26245E-03	50.22		
	71	2278.92	4.58333E-03	36.93		

Analysis Report for 1507047-03

FEEBRISID-3 028-029

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
72	2292.96	6.14490E-03	38.47		
73	2371.18	2.50000E-03	57.20		
74	2392.40	1.38889E-03	44.72		
75	2398.39	1.94444E-03	37.80		
76	2405.22	1.66667E-03	40.82		
77	2446.60	3.41667E-02	9.02		
78	2613.14	4.89583E-03	29.07		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.05E+01	1.02E+01
NB-95M	0.72	235.69	*	25.00	5.22E+03	7.87E+02
CD-109	0.99	88.03	*	3.72	1.49E+02	2.44E+01
SN-126	0.99	87.57	*	37.00	1.44E+01	2.19E+00
LA-140	0.71	328.77	*	20.50	3.09E+01	1.48E+01
		487.03	*	45.50	7.64E+00	6.17E+00
		815.85		23.50		
		1596.49	*	95.49	7.12E+00	5.34E+00
PM-149	0.39	285.90	*	3.10	3.65E+05	1.77E+05
TM-171	0.93	66.72	*	0.14	1.58E+04	1.34E+03
TA-182	0.35	67.75	*	41.20	6.19E+01	5.24E+00
		1121.30		34.90		
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.99	46.50	*	4.25	1.14E+02	1.45E+01
BI-214	0.97	609.31	*	46.30	1.82E+02	2.00E+01
		1120.29	*	15.10	1.96E+02	2.03E+01
		1764.49	*	15.80	1.84E+02	1.94E+01
		2204.22	*	4.98	1.93E+02	2.65E+01
PB-214	0.99	295.21	*	19.19	1.98E+02	2.20E+01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.99	351.92	*	37.19	2.13E+02	2.54E+01
RA-223	0.99	323.87	*	3.88	3.29E+01	1.66E+01
RA-224	0.86	240.98	*	3.95	4.01E+02	4.62E+01
RA-226	1.00	186.21	*	3.28	2.81E+02	5.16E+02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.995	1.05E+01	1.02E+01	
	NB-95M	0.729	5.22E+03	7.87E+02	
?	CD-109	0.991	1.49E+02	2.44E+01	
?	SN-126	0.992	1.44E+01	2.19E+00	
	LA-140	0.719	8.98E+00	3.90E+00	
	PM-149	0.394	3.65E+05	1.77E+05	
?	TM-171	0.936	1.58E+04	1.34E+03	
?	TA-182	0.359	6.19E+01	5.24E+00	
	PB-210	0.996	1.14E+02	1.45E+01	
	BI-214	0.979	1.88E+02	1.05E+01	
	PB-214	0.998	2.05E+02	1.67E+01	
	RA-223	0.998	3.29E+01	1.66E+01	
	RA-224	0.860	4.01E+02	4.62E+01	
	RA-226	1.000	2.81E+02	5.16E+02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-03

FEEBRISID-3 028-029

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:16:04AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.25	2.23543E-01	21.25		
m	2	31.81	8.14160E-01	5.44		
m	5	76.31	6.92665E+00	1.43		
m	6	83.53	2.99901E+00	3.46	Tol.	TH-231
	8	94.83	4.71509E-01	11.52		
	9	143.93	6.89078E-01	8.48	Tol.	U-235
	10	154.17	4.50184E-01	12.70	Sum	
	12	211.19	9.73597E-02	34.51		
	15	256.43	4.42143E-01	10.28	Tol.	TH-227
	16	270.57	1.03595E+00	4.62		
m	19	300.65	2.82751E-01	19.02	Tol.	BI-210M PB-212
m	22	337.79	8.61049E-02	33.78	Tol.	AC-228
	24	387.55	1.14884E-01	25.19		
	25	402.85	2.80194E-01	11.70		
	26	427.34	1.10498E-01	25.35	Sum	
	27	445.43	4.41202E-02	42.84		
	29	510.83	4.37924E-02	44.86	Sum	
	30	581.05	2.93217E-02	58.29	Sum	
	32	665.29	9.03869E-02	15.98	Tol.	CE-143
	33	703.01	2.23403E-02	56.42	Sum	
	34	742.21	2.67234E-02	45.02	D-Esc	
	35	767.93	2.90762E-01	6.45		
	36	785.74	6.68166E-02	20.00		
	37	806.13	6.80110E-02	19.85		
M	38	831.67	6.40741E-02	21.47	Tol.	PB-211
m	39	839.09	3.41635E-02	40.29	Sum	
	40	933.78	1.58801E-01	9.25	Sum	
	41	963.69	1.93632E-02	54.80	Tol.	EU-152
	42	1051.11	1.62775E-02	51.19		
M	43	1089.69	1.90251E-02	32.40		
m	44	1096.50	2.58582E-02	41.11	Sum	
	46	1132.30	2.45942E-02	35.77	Tol.	I-135
	47	1154.98	6.13987E-02	19.34		

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	48	1181.57	1.35701E-02	61.92	D-Esc	
	49	1206.40	2.96156E-02	38.99		
	50	1237.64	2.43189E-01	6.54	Tol.	CO-56
	51	1252.94	1.48641E-02	48.52	S-Esc	
	52	1280.79	5.51131E-02	20.47		
M	53	1377.20	1.50723E-01	7.07		
m	54	1384.78	4.91202E-02	18.50	Tol.	AG-110M
M	55	1400.88	6.16965E-02	14.88		
m	56	1407.70	9.14115E-02	10.64	Tol.	EU-152
	58	1508.36	6.46087E-02	18.04		
	59	1583.14	3.53564E-02	24.84		
	61	1660.53	4.10707E-02	19.85		
	62	1694.16	8.31134E-03	62.64		
	63	1729.05	9.75547E-02	8.11	Sum	
M	65	1837.82	1.18579E-02	39.23	Sum	
m	66	1846.97	6.47214E-02	9.38		
	67	1871.41	1.40916E-02	32.83		
	68	2117.92	2.97127E-02	18.60		
	69	2176.39	4.26245E-03	50.22		
	71	2278.92	4.58333E-03	36.93		
	72	2292.96	6.14490E-03	38.47		
	73	2371.18	2.50000E-03	57.20		
	74	2392.40	1.38889E-03	44.72		
	75	2398.39	1.94444E-03	37.80		
	76	2405.22	1.66667E-03	40.82		
	77	2446.60	3.41667E-02	9.02		
	78	2613.14	4.89583E-03	29.07		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	4.83E+00	1.40E+01	1.40E+01
+	NA-22	1274.54		99.94	1.82E-01	1.20E+00	1.20E+00
+	NA-24	1368.53		99.99	9.43E+12	6.93E+12	3.43E+13
		2754.09		99.86	-1.49E+12		6.93E+12
+	AL-26	1808.65		99.76	8.50E-01	9.73E-01	9.73E-01
+	K-40	1460.81	*	10.67	1.05E+01	1.65E+01	1.65E+01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.75E+00	1.05E+00	1.05E+00
		78.34		96.00	1.53E+01		1.26E+00
+	SC-46	889.25		99.98	-2.57E-01	1.56E+00	1.56E+00
		1120.51		99.99	3.60E+01		3.84E+00
+	V-48	983.52		99.98	2.66E-01	4.13E+00	4.13E+00
		1312.10		97.50	-3.12E-01		4.22E+00
+	CR-51	320.08		9.83	9.54E-01	2.03E+01	2.03E+01
+	MN-54	834.83		99.97	1.09E+00	1.44E+00	1.44E+00
+	CO-56	846.75		99.96	-4.26E-01	1.37E+00	1.44E+00
		1037.75		14.03	-3.15E-01		1.11E+01
		1238.25		67.00	2.05E+01		4.15E+00
		1771.40		15.51	-3.34E-01		8.07E+00
		2598.48		16.90	-9.94E-01		1.37E+00
+	CO-57	122.06		85.51	2.69E-01	9.97E-01	9.97E-01
		136.48		10.60	-8.66E-01		8.79E+00
+	CO-58	810.76		99.40	4.07E-01	1.61E+00	1.61E+00
+	FE-59	1099.22		56.50	-6.59E-01	3.40E+00	3.40E+00
		1291.56		43.20	6.89E-01		4.26E+00
+	CO-60	1173.22		100.00	-3.44E-02	1.19E+00	1.21E+00
		1332.49		100.00	1.48E-02		1.19E+00
+	ZN-65	1115.52		50.75	1.88E-01	4.66E+00	4.66E+00
+	GA-67	93.31		35.70	-2.31E+03	8.90E+02	8.90E+02
		208.95		2.24	-1.68E+03		1.71E+04
		300.22		16.00	-5.00E+04		3.06E+03
+	SE-75	121.11		16.70	2.01E+00	1.72E+00	5.55E+00
		136.00		59.20	-2.01E-01		1.72E+00
		264.65		59.80	-3.69E-02		2.03E+00
		279.53		25.20	-1.58E+00		4.68E+00
		400.65		11.40	3.00E+01		1.27E+01
+	RB-82	776.52		13.00	-7.01E+00	1.73E+01	1.73E+01
+	RB-83	520.41		46.00	-1.41E+00	2.53E+00	2.53E+00
		529.64		30.30	-1.66E-01		3.97E+00
		552.65		16.40	-3.32E+00		7.62E+00
+	KR-85	513.99		0.43	1.66E+01	2.38E+02	2.38E+02
+	SR-85	513.99		99.27	9.72E-02	1.40E+00	1.40E+00
+	Y-88	898.02		93.40	5.71E-01	1.26E+00	1.67E+00
		1836.01		99.38	-4.25E-02		1.26E+00
+	NB-93M	16.57		9.43	5.24E+01	4.26E+00	4.26E+00
+	NB-94	702.63		100.00	6.41E-01	1.08E+00	1.08E+00
		871.10		100.00	1.48E-01		1.24E+00

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	1.25E+01	2.85E+00	2.85E+00
+	NB-95M	235.69	*	25.00	5.22E+03	1.64E+03	1.64E+03
+	ZR-95	724.18		43.70	-9.88E-01	2.64E+00	3.25E+00
		756.72		55.30	2.09E+00		2.64E+00
+	MO-99	181.06		6.20	-1.46E+03	9.73E+03	1.87E+04
		739.58		12.80	2.00E+02		9.73E+03
		778.00		4.50	-1.09E+04		2.70E+04
+	RU-103	497.08		89.00	-2.55E-01	1.74E+00	1.74E+00
+	RU-106	621.84		9.80	-3.21E+00	9.70E+00	9.70E+00
+	AG-108M	433.93		89.90	-3.15E-01	1.13E+00	1.13E+00
		614.37		90.40	-1.93E+00		2.11E+00
		722.95		90.50	3.89E-01		1.18E+00
+	CD-109	88.03	*	3.72	1.49E+02	8.82E+01	8.82E+01
+	AG-110M	657.75		93.14	-1.41E-01	1.09E+00	1.09E+00
		677.61		10.53	-8.88E-01		9.84E+00
		706.67		16.46	1.77E+00		7.07E+00
		763.93		21.98	-8.56E-01		7.58E+00
		884.67		71.63	-1.96E-01		1.82E+00
		1384.27		23.94	-2.45E+01		6.58E+00
+	CD-113M	263.70		0.02	-8.18E+01	4.30E+03	4.30E+03
+	SN-113	255.12		1.93	2.46E+02	1.96E+00	6.78E+01
		391.69		64.90	4.63E-01		1.96E+00
+	TE123M	159.00		84.10	2.13E-01	1.37E+00	1.37E+00
+	SB-124	602.71		97.87	9.87E-02	1.57E+00	1.57E+00
		645.85		7.26	8.03E+00		1.84E+01
		722.78		11.10	5.94E+00		1.34E+01
		1691.02		49.00	-1.60E-01		2.66E+00
+	I-125	35.49		6.49	1.98E+01	1.06E+01	1.06E+01
+	SB-125	176.33		6.89	-9.58E+00	3.93E+00	1.41E+01
		427.89		29.33	5.35E+00		3.93E+00
		463.38		10.35	3.78E+00		9.83E+00
		600.56		17.80	-1.51E+00		5.82E+00
		635.90		11.32	-1.69E+00		8.57E+00
+	SB-126	414.70		83.30	-2.91E-01	4.77E+00	6.33E+00
		666.33		99.60	1.31E+01		5.52E+00
		695.00		99.60	-9.22E-01		4.77E+00
		720.50		53.80	2.84E+00		9.47E+00
+	SN-126	87.57	*	37.00	1.44E+01	8.50E+00	8.50E+00
+	SB-127	473.00		25.00	-2.46E+02	4.19E+02	6.06E+02
		685.20		35.70	-6.44E+01		4.19E+02
		783.80		14.70	-1.00E+02		1.29E+03
+	I-129	29.78		57.00	4.95E+00	8.77E-01	8.77E-01
		33.60		13.20	1.81E+01		3.86E+00
		39.58		7.52	-1.00E+02		6.42E+00
+	I-131	284.30		6.05	3.40E+02	1.29E+01	1.91E+02
		364.48		81.20	-2.79E+00		1.29E+01
		636.97		7.26	-2.82E+01		1.46E+02
		722.89		1.80	2.96E+02		6.68E+02

Analysis Report for 1507047-03

FEEBRISID-3 028-029

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72		13.10	6.02E+02	4.23E+02	1.93E+03
			228.16		88.00	-6.48E+01		4.23E+02
+		BA-133	81.00		33.00	1.26E+01	3.59E+00	3.59E+00
			302.84		17.80	-1.22E+02		6.12E+00
			356.01		60.00	-6.32E+00		4.14E+00
+		I-133	529.87		86.30	-2.38E+08	5.72E+09	5.72E+09
+		XE-133	81.00		38.00	4.39E+02	1.25E+02	1.25E+02
+		CS-134	563.23		8.38	-9.55E+00	1.33E+00	1.18E+01
			569.32		15.43	-1.99E+00		6.69E+00
			604.70		97.60	1.43E-01		2.66E+00
			795.84		85.40	1.74E-01		1.33E+00
			801.93		8.73	-6.88E-01		1.47E+01
+		CS-135	268.24		16.00	5.84E+01	8.02E+00	8.02E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	2.03E+02	5.03E+00	5.89E+01
			163.89		4.61	-1.49E+01		8.89E+01
			176.55		13.56	-2.08E+01		3.06E+01
			273.65		12.66	2.47E+02		4.34E+01
			340.57		48.50	1.19E+00		9.66E+00
			818.50		99.70	-1.50E+00		5.03E+00
			1048.07		79.60	-1.95E-01		6.66E+00
			1235.34		19.70	2.37E+02		4.78E+01
+		CS-137	661.65		85.12	-2.67E-03	1.30E+00	1.30E+00
+		LA-138	788.74		34.00	1.64E-01	1.88E+00	3.64E+00
			1435.80		66.00	-4.13E-01		1.88E+00
+		CE-139	165.85		80.35	1.35E-01	1.34E+00	1.34E+00
+		BA-140	162.64		6.70	-2.93E+00	1.82E+01	6.39E+01
			304.84		4.50	-9.53E+00		1.05E+02
			423.70		3.20	1.14E+01		1.64E+02
			437.55		2.00	-8.81E+01		2.24E+02
			537.32		25.00	-5.40E-01		1.82E+01
+		LA-140	328.77	*	20.50	3.09E+01	8.56E+00	6.22E+01
			487.03	*	45.50	7.64E+00		9.95E+00
			815.85		23.50	-2.11E+00		2.19E+01
			1596.49	*	95.49	7.12E+00		8.56E+00
+		CE-141	145.44		48.40	1.54E+01	3.81E+00	3.81E+00
+		CE-143	57.36		11.80	-1.09E+07	6.07E+06	7.35E+06
			293.26		42.00	1.11E+08		6.07E+06
			664.55		5.20	7.40E+07		2.94E+07
+		CE-144	133.54		10.80	1.98E+00	8.47E+00	8.47E+00
+		PM-144	476.78		42.00	-6.06E-01	9.93E-01	2.52E+00
			618.01		98.60	-3.92E+00		9.93E-01
			696.49		99.49	-2.91E-01		1.05E+00
+		PM-145	36.85		21.70	-6.97E+00	1.19E+00	2.24E+00
			37.36		39.70	-1.04E+01		1.19E+00
			42.30		15.10	7.74E+00		3.79E+00
			72.40		2.31	-3.13E+02		4.77E+01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90		39.94	4.21E-01	2.51E+00	2.51E+00
		735.90		14.01	-3.01E+00		7.10E+00
		747.13		13.10	-2.63E+00		8.04E+00
+	ND-147	91.11		28.90	-1.79E+01	1.86E+01	1.86E+01
		531.02		13.10	1.44E+01		4.34E+01
+	PM-149	285.90	*	3.10	3.65E+05	2.81E+05	2.81E+05
+	EU-152	121.78		20.50	1.05E+00	3.88E+00	3.88E+00
		244.69		5.40	-4.72E-01		2.56E+01
		344.27		19.13	-9.56E-01		5.49E+00
		778.89		9.20	-4.67E+00		1.16E+01
		964.01		10.40	3.07E+00		1.21E+01
		1085.78		7.22	-5.31E+00		1.63E+01
		1112.02		9.60	2.56E+00		1.32E+01
		1407.95		14.94	1.20E+01		1.19E+01
+	GD-153	97.43		31.30	9.23E-03	2.75E+00	2.75E+00
		103.18		22.20	-6.15E+00		3.49E+00
+	EU-154	123.07		40.50	4.54E-01	1.98E+00	1.98E+00
		723.30		19.70	1.80E+00		5.47E+00
		873.19		11.50	8.61E+00		1.10E+01
		996.32		10.30	6.45E-01		1.23E+01
		1004.76		17.90	-5.05E-01		6.96E+00
		1274.45		35.50	5.04E-01		3.34E+00
+	EU-155	86.50		30.90	2.55E+01	3.37E+00	3.37E+00
		105.30		20.70	-5.32E+00		3.46E+00
+	EU-156	811.77		10.40	9.75E+00	4.04E+01	4.04E+01
		1153.47		7.20	1.47E+02		7.62E+01
		1230.71		8.90	2.40E+00		4.99E+01
+	HO-166M	184.41		72.60	1.23E+01	1.64E+00	1.64E+00
		280.45		29.60	-1.15E+00		3.42E+00
		410.94		11.10	5.12E+00		9.92E+00
		711.69		54.10	-1.10E+00		1.88E+00
+	TM-171	66.72	*	0.14	1.58E+04	2.02E+03	2.02E+03
+	HF-172	81.75		4.52	-1.48E+02	7.41E+00	2.53E+01
		125.81		11.30	-2.17E-01		7.41E+00
+	LU-172	181.53		20.60	5.28E+00	3.59E+01	9.54E+01
		810.06		16.63	3.33E+01		1.32E+02
		912.12		15.25	1.06E+02		1.56E+02
		1093.66		62.50	2.33E+01		3.59E+01
+	LU-173	100.72		5.24	-1.63E+01	6.47E+00	1.44E+01
		272.11		21.20	5.88E+01		6.47E+00
+	HF-175	343.40		84.00	-2.85E-01	1.62E+00	1.62E+00
+	LU-176	88.34		13.30	-1.42E+01	1.07E+00	7.14E+00
		201.83		86.00	1.15E-01		1.16E+00
		306.78		94.00	-2.70E-01		1.07E+00
+	TA-182	67.75	*	41.20	6.19E+01	5.25E+00	7.92E+00
		1121.30		34.90	9.62E+01		1.03E+01
		1189.05		16.23	3.82E+00		8.62E+00
		1221.41		26.98	-1.73E+00		5.25E+00
		1231.02		11.44	6.19E-01		1.29E+01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-2.38E+00	2.67E+00	4.25E+00
		468.07		48.10	-3.33E-01		2.67E+00
+	HG-203	279.19		77.30	-6.63E-01	1.96E+00	1.96E+00
+	BI-207	569.67		97.72	-3.07E-01	1.03E+00	1.03E+00
		1063.62		74.90	-4.98E-01		1.66E+00
+	TL-208	583.14		30.22	-1.37E-01	1.59E+00	3.54E+00
		860.37		4.48	-5.28E+00		2.67E+01
		2614.66		35.85	0.00E+00		1.59E+00
+	BI-210M	262.00		45.00	-4.14E-02	2.25E+00	2.25E+00
		300.00		23.00	4.43E+01		7.11E+00
+	PB-210	46.50	*	4.25	1.14E+02	1.94E+01	1.94E+01
+	PB-211	404.84		2.90	1.51E+02	4.37E+01	4.37E+01
		831.96		2.90	-1.63E+01		4.43E+01
+	BI-212	727.17		11.80	4.21E+00	8.80E+00	8.80E+00
		1620.62		2.75	1.34E+01		4.00E+01
+	PB-212	238.63		44.60	3.98E+01	3.31E+00	3.31E+00
		300.09		3.41	2.99E+02		4.79E+01
+	BI-214	609.31	*	46.30	1.82E+02	3.24E+00	3.24E+00
		1120.29	*	15.10	1.96E+02		1.50E+01
		1764.49	*	15.80	1.84E+02		9.41E+00
		2204.22	*	4.98	1.93E+02		1.24E+01
+	PB-214	295.21	*	19.19	1.98E+02	3.59E+00	1.11E+01
		351.92	*	37.19	2.13E+02		3.59E+00
+	RN-219	401.80		6.50	6.77E+01	1.93E+01	1.93E+01
+	RA-223	323.87	*	3.88	3.29E+01	7.10E+01	7.10E+01
+	RA-224	240.98	*	3.95	4.01E+02	4.94E+01	4.94E+01
+	RA-225	40.00		31.00	-9.02E+01	5.78E+00	5.78E+00
+	RA-226	186.21	*	3.28	2.81E+02	4.20E+01	4.20E+01
+	TH-227	50.10		8.40	2.46E+00	7.91E+00	7.91E+00
		236.00		11.50	-1.24E+02		1.02E+01
		256.20		6.30	7.75E+01		1.77E+01
+	AC-228	338.32		11.40	1.25E+01	4.76E+00	9.49E+00
		911.07		27.70	2.14E+00		4.76E+00
		969.11		16.60	2.32E+00		7.40E+00
+	TH-230	48.44		16.90	2.96E+01	3.89E+00	3.89E+00
		62.85		4.60	-1.09E+02		1.78E+01
		67.67		0.37	9.56E+02		2.67E+02
+	PA-231	283.67		1.60	1.21E+02	4.71E+01	6.50E+01
		302.67		2.30	-9.38E+02		4.71E+01
+	TH-231	25.64		14.70	-1.15E+00	2.95E+00	2.95E+00
		84.21		6.40	-5.91E+01		1.68E+01
+	PA-233	311.98		38.60	-1.27E-01	5.14E+00	5.14E+00
+	PA-234	131.20		20.40	1.90E+00	4.13E+00	4.13E+00
		733.99		8.80	-7.60E+00		1.12E+01
		946.00		12.00	-2.61E+00		9.89E+00
+	PA-234M	1001.03		0.92	7.36E+01	1.38E+02	1.38E+02
+	TH-234	63.29		3.80	2.35E+02	2.39E+01	2.39E+01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	4.44E+01	9.57E+00	9.57E+00
		163.35	4.70	-3.34E+00		1.99E+01
		205.31	4.70	-4.69E+00		2.12E+01
+	NP-237	86.50	12.60	6.18E+01	8.17E+00	8.17E+00
+	NP-239	106.10	22.70	-1.81E+04	1.17E+04	1.17E+04
		228.18	10.70	-8.83E+03		3.38E+04
		277.60	14.10	-8.93E+03		2.66E+04
+	AM-241	59.54	35.90	-2.19E+00	1.93E+00	1.93E+00
+	AM-243	74.67	66.00	6.40E+00	1.75E+00	1.75E+00
+	CM-243	209.75	3.29	-3.35E+00	7.18E+00	3.05E+01
		228.14	10.60	-1.41E+00		9.20E+00
		277.60	14.00	-2.41E+00		7.18E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.40E+01	1.40E+01	4.83E+00	6.90E+00
	NA-22	1274.54		99.94	1.20E+00	1.20E+00	1.82E-01	5.83E-01
	NA-24	1368.53		99.99	3.43E+13	6.93E+12	9.43E+12	1.66E+13
		2754.09		99.86	6.93E+12		-1.49E+12	2.45E+12
	AL-26	1808.65		99.76	9.73E-01	9.73E-01	8.50E-01	4.61E-01
+	K-40	1460.81	*	10.67	1.65E+01	1.65E+01	1.05E+01	8.05E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	1.05E+00	1.05E+00	3.75E+00	5.23E-01
		78.34		96.00	1.26E+00		1.53E+01	6.30E-01
	SC-46	889.25		99.98	1.56E+00	1.56E+00	-2.57E-01	7.62E-01

Analysis Report for 1507047-03

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	3.84E+00	1.56E+00	3.60E+01	1.90E+00
	V-48	983.52		99.98	4.13E+00	4.13E+00	2.66E-01	2.02E+00
		1312.10		97.50	4.22E+00		-3.12E-01	2.04E+00
	CR-51	320.08		9.83	2.03E+01	2.03E+01	9.54E-01	1.01E+01
	MN-54	834.83		99.97	1.44E+00	1.44E+00	1.09E+00	7.07E-01
	CO-56	846.75		99.96	1.44E+00	1.37E+00	-4.26E-01	7.05E-01
		1037.75		14.03	1.11E+01		-3.15E-01	5.41E+00
		1238.25		67.00	4.15E+00		2.05E+01	2.04E+00
		1771.40		15.51	8.07E+00		-3.34E-01	3.83E+00
		2598.48		16.90	1.37E+00		-9.94E-01	4.34E-01
	CO-57	122.06		85.51	9.97E-01	9.97E-01	2.69E-01	4.96E-01
		136.48		10.60	8.79E+00		-8.66E-01	4.37E+00
	CO-58	810.76		99.40	1.61E+00	1.61E+00	4.07E-01	7.89E-01
	FE-59	1099.22		56.50	3.40E+00	3.40E+00	-6.59E-01	1.66E+00
		1291.56		43.20	4.26E+00		6.89E-01	2.06E+00
	CO-60	1173.22		100.00	1.21E+00	1.19E+00	-3.44E-02	5.86E-01
		1332.49		100.00	1.19E+00		1.48E-02	5.76E-01
	ZN-65	1115.52		50.75	4.66E+00	4.66E+00	1.88E-01	2.29E+00
	GA-67	93.31		35.70	8.90E+02	8.90E+02	-2.31E+03	4.43E+02
		208.95		2.24	1.71E+04		-1.68E+03	8.49E+03
		300.22		16.00	3.06E+03		-5.00E+04	1.52E+03
	SE-75	121.11		16.70	5.55E+00	1.72E+00	2.01E+00	2.76E+00
		136.00		59.20	1.72E+00		-2.01E-01	8.55E-01
		264.65		59.80	2.03E+00		-3.69E-02	1.01E+00
		279.53		25.20	4.68E+00		-1.58E+00	2.32E+00
		400.65		11.40	1.27E+01		3.00E+01	6.28E+00
	RB-82	776.52		13.00	1.73E+01	1.73E+01	-7.01E+00	8.44E+00
	RB-83	520.41		46.00	2.53E+00	2.53E+00	-1.41E+00	1.24E+00
		529.64		30.30	3.97E+00		-1.66E-01	1.95E+00
		552.65		16.40	7.62E+00		-3.32E+00	3.75E+00
	KR-85	513.99		0.43	2.38E+02	2.38E+02	1.66E+01	1.17E+02
	SR-85	513.99		99.27	1.40E+00	1.40E+00	9.72E-02	6.88E-01
	Y-88	898.02		93.40	1.67E+00	1.26E+00	5.71E-01	8.16E-01
		1836.01		99.38	1.26E+00		-4.25E-02	5.97E-01
	NB-93M	16.57		9.43	4.26E+00	4.26E+00	5.24E+01	2.12E+00
	NB-94	702.63		100.00	1.08E+00	1.08E+00	6.41E-01	5.29E-01
		871.10		100.00	1.24E+00		1.48E-01	6.08E-01
	NB-95	765.79		99.81	2.85E+00	2.85E+00	1.25E+01	1.40E+00
+	NB-95M	235.69	*	25.00	1.64E+03	1.64E+03	5.22E+03	8.17E+02
	ZR-95	724.18		43.70	3.25E+00	2.64E+00	-9.88E-01	1.59E+00
		756.72		55.30	2.64E+00		2.09E+00	1.29E+00
	MO-99	181.06		6.20	1.87E+04	9.73E+03	-1.46E+03	9.31E+03
		739.58		12.80	9.73E+03		2.00E+02	4.76E+03
		778.00		4.50	2.70E+04		-1.09E+04	1.32E+04
	RU-103	497.08		89.00	1.74E+00	1.74E+00	-2.55E-01	8.58E-01
	RU-106	621.84		9.80	9.70E+00	9.70E+00	-3.21E+00	4.75E+00
	AG-108M	433.93		89.90	1.13E+00	1.13E+00	-3.15E-01	5.58E-01
		614.37		90.40	2.11E+00		-1.93E+00	1.04E+00
		722.95		90.50	1.18E+00		3.89E-01	5.79E-01
+	CD-109	88.03	*	3.72	8.82E+01	8.82E+01	1.49E+02	4.40E+01
	AG-110M	657.75		93.14	1.09E+00	1.09E+00	-1.41E-01	5.34E-01
		677.61		10.53	9.84E+00		-8.88E-01	4.82E+00
		706.67		16.46	7.07E+00		1.77E+00	3.47E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	7.58E+00	1.09E+00	-8.56E-01	3.73E+00
		884.67		71.63	1.82E+00		-1.96E-01	8.92E-01
		1384.27		23.94	6.58E+00		-2.45E+01	3.20E+00
	CD-113M	263.70		0.02	4.30E+03	4.30E+03	-8.18E+01	2.13E+03
	SN-113	255.12		1.93	6.78E+01	1.96E+00	2.46E+02	3.37E+01
		391.69		64.90	1.96E+00		4.63E-01	9.70E-01
	TE123M	159.00		84.10	1.37E+00	1.37E+00	2.13E-01	6.84E-01
	SB-124	602.71		97.87	1.57E+00	1.57E+00	9.87E-02	7.72E-01
		645.85		7.26	1.84E+01		8.03E+00	9.02E+00
		722.78		11.10	1.34E+01		5.94E+00	6.58E+00
		1691.02		49.00	2.66E+00		-1.60E-01	1.26E+00
	I-125	35.49		6.49	1.06E+01	1.06E+01	1.98E+01	5.30E+00
	SB-125	176.33		6.89	1.41E+01	3.93E+00	-9.58E+00	6.98E+00
		427.89		29.33	3.93E+00		5.35E+00	1.94E+00
		463.38		10.35	9.83E+00		3.78E+00	4.84E+00
		600.56		17.80	5.82E+00		-1.51E+00	2.86E+00
		635.90		11.32	8.57E+00		-1.69E+00	4.20E+00
	SB-126	414.70		83.30	6.33E+00	4.77E+00	-2.91E-01	3.13E+00
		666.33		99.60	5.52E+00		1.31E+01	2.71E+00
		695.00		99.60	4.77E+00		-9.22E-01	2.33E+00
		720.50		53.80	9.47E+00		2.84E+00	4.64E+00
+	SN-126	87.57	*	37.00	8.50E+00	8.50E+00	1.44E+01	4.25E+00
	SB-127	473.00		25.00	6.06E+02	4.19E+02	-2.46E+02	2.99E+02
		685.20		35.70	4.19E+02		-6.44E+01	2.05E+02
		783.80		14.70	1.29E+03		-1.00E+02	6.35E+02
	I-129	29.78		57.00	8.77E-01	8.77E-01	4.95E+00	4.37E-01
		33.60		13.20	3.86E+00		1.81E+01	1.92E+00
		39.58		7.52	6.42E+00		-1.00E+02	3.19E+00
	I-131	284.30		6.05	1.91E+02	1.29E+01	3.40E+02	9.48E+01
		364.48		81.20	1.29E+01		-2.79E+00	6.36E+00
		636.97		7.26	1.46E+02		-2.82E+01	7.16E+01
		722.89		1.80	6.68E+02		2.96E+02	3.27E+02
	TE-132	49.72		13.10	1.93E+03	4.23E+02	6.02E+02	9.63E+02
		228.16		88.00	4.23E+02		-6.48E+01	2.10E+02
	BA-133	81.00		33.00	3.59E+00	3.59E+00	1.26E+01	1.79E+00
		302.84		17.80	6.12E+00		-1.22E+02	3.03E+00
		356.01		60.00	4.14E+00		-6.32E+00	2.06E+00
	I-133	529.87		86.30	5.72E+09	5.72E+09	-2.38E+08	2.81E+09
	XE-133	81.00		38.00	1.25E+02	1.25E+02	4.39E+02	6.22E+01
	CS-134	563.23		8.38	1.18E+01	1.33E+00	-9.55E+00	5.82E+00
		569.32		15.43	6.69E+00		-1.99E+00	3.29E+00
		604.70		97.60	2.66E+00		1.43E-01	1.32E+00
		795.84		85.40	1.33E+00		1.74E-01	6.50E-01
		801.93		8.73	1.47E+01		-6.88E-01	7.20E+00
	CS-135	268.24		16.00	8.02E+00	8.02E+00	5.84E+01	3.98E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	5.89E+01	5.03E+00	2.03E+02	2.93E+01
		163.89		4.61	8.89E+01		-1.49E+01	4.42E+01
		176.55		13.56	3.06E+01		-2.08E+01	1.52E+01
		273.65		12.66	4.34E+01		2.47E+02	2.15E+01
		340.57		48.50	9.66E+00		1.19E+00	4.78E+00

Analysis Report for 1507047-03

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	818.50		99.70	5.03E+00	5.03E+00	-1.50E+00	2.46E+00
		1048.07		79.60	6.66E+00		-1.95E-01	3.24E+00
		1235.34		19.70	4.78E+01		2.37E+02	2.35E+01
	CS-137	661.65		85.12	1.30E+00	1.30E+00	-2.67E-03	6.39E-01
	LA-138	788.74		34.00	3.64E+00	1.88E+00	1.64E-01	1.79E+00
		1435.80		66.00	1.88E+00		-4.13E-01	9.09E-01
	CE-139	165.85		80.35	1.34E+00	1.34E+00	1.35E-01	6.68E-01
	BA-140	162.64		6.70	6.39E+01	1.82E+01	-2.93E+00	3.18E+01
		304.84		4.50	1.05E+02		-9.53E+00	5.22E+01
		423.70		3.20	1.64E+02		1.14E+01	8.11E+01
		437.55		2.00	2.24E+02		-8.81E+01	1.11E+02
		537.32		25.00	1.82E+01		-5.40E-01	8.94E+00
+	LA-140	328.77	*	20.50	6.22E+01	8.56E+00	3.09E+01	3.10E+01
		487.03	*	45.50	9.95E+00		7.64E+00	4.90E+00
		815.85		23.50	2.19E+01		-2.11E+00	1.07E+01
		1596.49	*	95.49	8.56E+00		7.12E+00	4.17E+00
	CE-141	145.44		48.40	3.81E+00	3.81E+00	1.54E+01	1.89E+00
	CE-143	57.36		11.80	7.35E+06	6.07E+06	-1.09E+07	3.66E+06
		293.26		42.00	6.07E+06		1.11E+08	3.02E+06
		664.55		5.20	2.94E+07		7.40E+07	1.44E+07
	CE-144	133.54		10.80	8.47E+00	8.47E+00	1.98E+00	4.21E+00
	PM-144	476.78		42.00	2.52E+00	9.93E-01	-6.06E-01	1.24E+00
		618.01		98.60	9.93E-01		-3.92E+00	4.86E-01
		696.49		99.49	1.05E+00		-2.91E-01	5.14E-01
	PM-145	36.85		21.70	2.24E+00	1.19E+00	-6.97E+00	1.11E+00
		37.36		39.70	1.19E+00		-1.04E+01	5.93E-01
		42.30		15.10	3.79E+00		7.74E+00	1.89E+00
		72.40		2.31	4.77E+01		-3.13E+02	2.38E+01
	PM-146	453.90		39.94	2.51E+00	2.51E+00	4.21E-01	1.24E+00
		735.90		14.01	7.10E+00		-3.01E+00	3.47E+00
		747.13		13.10	8.04E+00		-2.63E+00	3.93E+00
	ND-147	91.11		28.90	1.86E+01	1.86E+01	-1.79E+01	9.28E+00
		531.02		13.10	4.34E+01		1.44E+01	2.13E+01
+	PM-149	285.90	*	3.10	2.81E+05	2.81E+05	3.65E+05	1.39E+05
	EU-152	121.78		20.50	3.88E+00	3.88E+00	1.05E+00	1.93E+00
		244.69		5.40	2.56E+01		-4.72E-01	1.27E+01
		344.27		19.13	5.49E+00		-9.56E-01	2.72E+00
		778.89		9.20	1.16E+01		-4.67E+00	5.67E+00
		964.01		10.40	1.21E+01		3.07E+00	5.90E+00
		1085.78		7.22	1.63E+01		-5.31E+00	7.91E+00
		1112.02		9.60	1.32E+01		2.56E+00	6.42E+00
		1407.95		14.94	1.19E+01		1.20E+01	5.82E+00
	GD-153	97.43		31.30	2.75E+00	2.75E+00	9.23E-03	1.37E+00
		103.18		22.20	3.49E+00		-6.15E+00	1.73E+00
	EU-154	123.07		40.50	1.98E+00	1.98E+00	4.54E-01	9.86E-01
		723.30		19.70	5.47E+00		1.80E+00	2.68E+00
		873.19		11.50	1.10E+01		8.61E+00	5.39E+00
		996.32		10.30	1.23E+01		6.45E-01	6.01E+00
		1004.76		17.90	6.96E+00		-5.05E-01	3.40E+00
		1274.45		35.50	3.34E+00		5.04E-01	1.62E+00
	EU-155	86.50		30.90	3.37E+00	3.37E+00	2.55E+01	1.68E+00
		105.30		20.70	3.46E+00		-5.32E+00	1.72E+00
	EU-156	811.77		10.40	4.04E+01	4.04E+01	9.75E+00	1.98E+01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	7.62E+01	4.04E+01	1.47E+02	3.72E+01
		1230.71		8.90	4.99E+01		2.40E+00	2.42E+01
	HO-166M	184.41		72.60	1.64E+00	1.64E+00	1.23E+01	8.14E-01
		280.45		29.60	3.42E+00		-1.15E+00	1.70E+00
		410.94		11.10	9.92E+00		5.12E+00	4.90E+00
		711.69		54.10	1.88E+00		-1.10E+00	9.21E-01
+	TM-171	66.72	*	0.14	2.02E+03	2.02E+03	1.58E+04	1.01E+03
	HF-172	81.75		4.52	2.53E+01	7.41E+00	-1.48E+02	1.26E+01
		125.81		11.30	7.41E+00		-2.17E-01	3.68E+00
	LU-172	181.53		20.60	9.54E+01	3.59E+01	5.28E+00	4.74E+01
		810.06		16.63	1.32E+02		3.33E+01	6.46E+01
		912.12		15.25	1.56E+02		1.06E+02	7.63E+01
		1093.66		62.50	3.59E+01		2.33E+01	1.75E+01
	LU-173	100.72		5.24	1.44E+01	6.47E+00	-1.63E+01	7.16E+00
		272.11		21.20	6.47E+00		5.88E+01	3.21E+00
	HF-175	343.40		84.00	1.62E+00	1.62E+00	-2.85E-01	8.02E-01
	LU-176	88.34		13.30	7.14E+00	1.07E+00	-1.42E+01	3.56E+00
		201.83		86.00	1.16E+00		1.15E-01	5.77E-01
		306.78		94.00	1.07E+00		-2.70E-01	5.28E-01
+	TA-182	67.75	*	41.20	7.92E+00	5.25E+00	6.19E+01	3.96E+00
		1121.30		34.90	1.03E+01		9.62E+01	5.10E+00
		1189.05		16.23	8.62E+00		3.82E+00	4.18E+00
		1221.41		26.98	5.25E+00		-1.73E+00	2.55E+00
		1231.02		11.44	1.29E+01		6.19E-01	6.24E+00
	IR-192	308.46		29.68	4.25E+00	2.67E+00	-2.38E+00	2.10E+00
		468.07		48.10	2.67E+00		-3.33E-01	1.32E+00
	HG-203	279.19		77.30	1.96E+00	1.96E+00	-6.63E-01	9.74E-01
	BI-207	569.67		97.72	1.03E+00	1.03E+00	-3.07E-01	5.07E-01
		1063.62		74.90	1.66E+00		-4.98E-01	8.07E-01
	TL-208	583.14		30.22	3.54E+00	1.59E+00	-1.37E-01	1.74E+00
		860.37		4.48	2.67E+01		-5.28E+00	1.31E+01
		2614.66		35.85	1.59E+00		0.00E+00	7.00E-01
	BI-210M	262.00		45.00	2.25E+00	2.25E+00	-4.14E-02	1.11E+00
		300.00		23.00	7.11E+00		4.43E+01	3.53E+00
+	PB-210	46.50	*	4.25	1.94E+01	1.94E+01	1.14E+02	9.66E+00
	PB-211	404.84		2.90	4.37E+01	4.37E+01	1.51E+02	2.16E+01
		831.96		2.90	4.43E+01		-1.63E+01	2.17E+01
	BI-212	727.17		11.80	8.80E+00	8.80E+00	4.21E+00	4.31E+00
		1620.62		2.75	4.00E+01		1.34E+01	1.92E+01
	PB-212	238.63		44.60	3.31E+00	3.31E+00	3.98E+01	1.65E+00
		300.09		3.41	4.79E+01		2.99E+02	2.38E+01
+	BI-214	609.31	*	46.30	3.24E+00	3.24E+00	1.82E+02	1.60E+00
		1120.29	*	15.10	1.50E+01		1.96E+02	7.39E+00
		1764.49	*	15.80	9.41E+00		1.84E+02	4.55E+00
		2204.22	*	4.98	1.24E+01		1.93E+02	5.59E+00
+	PB-214	295.21	*	19.19	1.11E+01	3.59E+00	1.98E+02	5.54E+00
		351.92	*	37.19	3.59E+00		2.13E+02	1.78E+00
	RN-219	401.80		6.50	1.93E+01	1.93E+01	6.77E+01	9.56E+00
+	RA-223	323.87	*	3.88	7.10E+01	7.10E+01	3.29E+01	3.54E+01
+	RA-224	240.98	*	3.95	4.94E+01	4.94E+01	4.01E+02	2.46E+01
	RA-225	40.00		31.00	5.78E+00	5.78E+00	-9.02E+01	2.87E+00
+	RA-226	186.21	*	3.28	4.20E+01	4.20E+01	2.81E+02	2.09E+01
	TH-227	50.10		8.40	7.91E+00	7.91E+00	2.46E+00	3.94E+00

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-227	236.00	11.50	1.02E+01	7.91E+00	-1.24E+02	5.05E+00
	256.20	6.30	1.77E+01		7.75E+01	8.77E+00
AC-228	338.32	11.40	9.49E+00	4.76E+00	1.25E+01	4.70E+00
	911.07	27.70	4.76E+00		2.14E+00	2.33E+00
	969.11	16.60	7.40E+00		2.32E+00	3.61E+00
TH-230	48.44	16.90	3.89E+00	3.89E+00	2.96E+01	1.94E+00
	62.85	4.60	1.78E+01		-1.09E+02	8.87E+00
	67.67	0.37	2.67E+02		9.56E+02	1.33E+02
PA-231	283.67	1.60	6.50E+01	4.71E+01	1.21E+02	3.22E+01
	302.67	2.30	4.71E+01		-9.38E+02	2.33E+01
TH-231	25.64	14.70	2.95E+00	2.95E+00	-1.15E+00	1.47E+00
	84.21	6.40	1.68E+01		-5.91E+01	8.36E+00
PA-233	311.98	38.60	5.14E+00	5.14E+00	-1.27E-01	2.54E+00
PA-234	131.20	20.40	4.13E+00	4.13E+00	1.90E+00	2.05E+00
	733.99	8.80	1.12E+01		-7.60E+00	5.48E+00
	946.00	12.00	9.89E+00		-2.61E+00	4.83E+00
PA-234M	1001.03	0.92	1.38E+02	1.38E+02	7.36E+01	6.73E+01
TH-234	63.29	3.80	2.39E+01	2.39E+01	2.35E+02	1.19E+01
U-235	143.76	10.50	9.57E+00	9.57E+00	4.44E+01	4.76E+00
	163.35	4.70	1.99E+01		-3.34E+00	9.91E+00
	205.31	4.70	2.12E+01		-4.69E+00	1.05E+01
NP-237	86.50	12.60	8.17E+00	8.17E+00	6.18E+01	4.07E+00
NP-239	106.10	22.70	1.17E+04	1.17E+04	-1.81E+04	5.84E+03
	228.18	10.70	3.38E+04		-8.83E+03	1.68E+04
	277.60	14.10	2.66E+04		-8.93E+03	1.32E+04
AM-241	59.54	35.90	1.93E+00	1.93E+00	-2.19E+00	9.60E-01
AM-243	74.67	66.00	1.75E+00	1.75E+00	6.40E+00	8.71E-01
CM-243	209.75	3.29	3.05E+01	7.18E+00	-3.35E+00	1.52E+01
	228.14	10.60	9.20E+00		-1.41E+00	4.56E+00
	277.60	14.00	7.18E+00		-2.41E+00	3.56E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-03

FEEBRISID-3 028-029

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-3 028-029

Elapsed Live time: 3600
Elapsed Real Time: 3621

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	3	732	2385
17:	2299	1858	1296	1112	1140	1119	1100	1125
25:	1257	1389	1397	1292	1267	1843	2336	1970
33:	1365	1163	1399	1391	1229	1166	1156	1267
41:	1275	1304	1378	1876	2882	3282	2241	1657
49:	1856	1766	1641	1709	1849	1664	1630	1664
57:	1825	1866	1946	1953	2222	2360	2382	2363
65:	3174	5565	7143	4641	2587	2178	2382	2721
73:	4116	5485	6201	7186	6099	3657	3131	3420
81:	3279	3579	4348	3585	2781	3136	3173	2571
89:	2096	1875	1622	1705	2095	2239	1731	1475
97:	1449	1360	1282	1145	1192	1133	1072	1091
105:	1133	1118	1121	1145	1095	1116	1160	1190
113:	1171	1165	1120	1083	1110	1160	1177	1126
121:	1204	1264	1157	1121	1099	1117	1156	1206
129:	1175	1170	1192	1175	1149	1254	1185	1184
137:	1154	1150	1197	1185	1189	1709	2189	2000
145:	1400	1196	1178	1201	1224	1233	1240	1351
153:	1686	1680	1319	1201	1159	1124	1111	1098
161:	1072	1112	1000	1043	1048	1009	979	959
169:	1036	957	943	968	973	942	898	928
177:	965	1018	967	964	1017	952	1034	1561
185:	2360	2309	1408	967	992	923	899	928
193:	900	880	972	886	868	880	839	884
201:	847	866	799	833	827	832	752	791
209:	839	804	816	812	734	727	704	675
217:	748	682	674	678	668	689	690	657
225:	699	652	632	626	630	658	636	614
233:	701	1015	1421	1314	843	686	800	1617
241:	2584	2330	1093	619	551	564	568	526
249:	553	539	537	590	622	726	880	940
257:	754	663	602	509	515	495	483	491
265:	452	484	640	1046	1402	1353	1126	711
273:	595	536	525	459	447	444	473	459
281:	467	516	560	589	535	504	453	449
289:	440	411	441	603	1842	4160	4381	2023
297:	644	507	582	564	525	506	482	452
305:	377	391	355	356	363	369	337	396
313:	352	375	397	331	323	351	379	300
321:	317	412	511	481	348	346	379	446
329:	518	470	340	369	406	373	398	386
337:	439	475	371	388	342	382	338	336
345:	347	302	336	441	1213	4336	7604	5773
353:	1965	437	243	262	262	255	243	247
361:	288	244	249	273	231	272	247	265

369:	270	266	275	281	254	270	244	277

Sample Title: FEEBRISID-3 028-029

Channel								
377:	265	251	261	290	232	243	269	277
385:	284	328	329	327	327	288	283	252
393:	284	298	261	283	228	257	301	412
401:	480	500	412	449	403	293	250	265
409:	300	283	285	279	286	290	257	270
417:	268	285	285	309	262	287	287	273
425:	282	327	306	269	249	238	237	207
433:	197	208	186	216	196	197	188	221
441:	183	211	200	243	221	201	198	182
449:	162	187	182	199	180	227	224	135
457:	192	176	173	179	174	198	187	169
465:	183	177	197	171	176	189	157	155
473:	179	179	154	179	149	166	208	199
481:	186	179	186	155	186	209	182	158
489:	165	142	133	144	136	150	141	132
497:	130	165	132	146	153	165	136	150
505:	136	130	128	168	170	192	189	173
513:	153	132	141	140	129	134	121	117
521:	129	124	122	110	140	128	121	131
529:	114	114	145	137	134	162	128	128
537:	126	152	139	128	125	127	146	146
545:	147	147	124	133	129	131	116	122
553:	124	148	117	134	136	149	115	105
561:	131	125	125	107	122	92	119	118
569:	113	133	144	123	140	130	145	132
577:	112	141	157	158	145	133	140	111
585:	117	120	109	92	127	118	96	98
593:	104	137	93	109	97	91	115	106
601:	132	121	116	124	118	288	1497	3825
609:	4539	2257	516	128	84	98	81	101
617:	100	90	86	72	79	87	65	93
625:	68	86	85	76	104	100	90	89
633:	77	81	91	90	95	82	94	90
641:	93	82	78	85	80	95	83	87
649:	110	80	79	68	86	75	69	82
657:	86	80	68	99	74	79	112	186
665:	204	168	82	75	73	80	72	79
673:	74	81	81	67	91	80	90	64
681:	77	89	94	62	80	82	70	93
689:	66	82	94	76	74	73	68	80
697:	89	95	73	85	104	107	98	112
705:	81	79	83	93	86	82	73	77
713:	59	89	79	71	78	111	106	94
721:	84	79	76	76	89	74	96	75
729:	83	73	78	65	66	59	71	71
737:	77	76	68	86	109	108	97	77
745:	67	77	83	78	76	63	69	85
753:	80	80	65	82	80	94	79	73
761:	63	65	76	88	103	203	359	427
769:	248	128	87	77	69	95	69	59
777:	64	73	68	72	75	82	80	100
785:	157	150	105	73	55	82	71	83
793:	76	75	77	82	66	73	80	83

801:	82	67	75	113	155	135	130	67

Sample Title: FEEBRISID-3 028-029

Channel								
809:	78	75	66	90	69	91	75	58
817:	73	82	79	86	79	76	87	86
825:	89	70	86	65	77	90	156	126
833:	87	77	94	77	94	137	113	110
841:	90	69	70	89	64	65	82	58
849:	65	65	72	70	79	85	87	62
857:	73	70	82	96	77	70	74	82
865:	74	78	73	69	70	79	75	91
873:	90	82	93	84	74	79	67	60
881:	80	67	70	77	71	83	77	78
889:	80	83	67	74	74	87	73	93
897:	85	77	91	81	88	70	78	79
905:	91	76	77	93	82	93	74	79
913:	81	82	87	73	70	74	55	63
921:	49	63	63	63	70	64	72	59
929:	59	58	77	159	243	261	154	75
937:	66	59	77	61	75	47	67	58
945:	58	63	68	75	68	55	61	49
953:	72	52	61	53	85	51	53	56
961:	60	71	76	89	72	54	57	65
969:	64	66	61	65	68	65	63	44
977:	72	50	68	42	59	54	54	64
985:	73	74	68	54	76	68	52	57
993:	71	48	74	61	61	70	61	68
1001:	62	70	50	68	63	52	57	52
1009:	69	49	59	46	62	46	47	52
1017:	65	61	53	55	69	55	46	50
1025:	48	48	53	38	51	48	54	63
1033:	57	62	52	61	50	51	43	59
1041:	57	50	50	65	39	58	46	43
1049:	55	61	59	55	52	39	47	52
1057:	52	60	55	60	41	45	62	50
1065:	63	46	63	60	58	61	49	47
1073:	49	53	49	52	57	45	57	50
1081:	45	32	40	46	55	38	33	48
1089:	60	63	43	32	40	38	68	64
1097:	55	57	48	38	48	42	40	47
1105:	56	50	53	57	60	44	64	38
1113:	41	52	45	61	85	298	723	840
1121:	471	164	55	46	45	49	56	34
1129:	38	52	53	62	62	55	41	32
1137:	48	36	44	48	56	41	37	44
1145:	40	48	39	47	52	46	47	52
1153:	76	113	114	90	51	52	37	49
1161:	35	43	60	45	45	45	42	49
1169:	42	36	40	50	41	54	46	37
1177:	27	41	35	41	46	61	45	40
1185:	30	46	43	40	51	31	33	41
1193:	40	18	46	37	34	44	33	30
1201:	35	40	41	39	42	59	59	44
1209:	54	33	36	31	39	34	47	37
1217:	31	44	37	37	44	34	43	32
1225:	44	47	43	41	33	33	41	34

1233:	50	37	56	146	298	303	173	64

Sample Title: FEEBRISID-3 028-029

Channel								
1241:	31	37	43	36	33	42	34	25
1249:	41	24	44	48	50	51	35	27
1257:	37	39	29	38	35	35	31	37
1265:	31	38	30	34	30	29	40	35
1273:	42	34	29	32	26	43	60	92
1281:	85	58	31	33	42	32	27	33
1289:	30	33	40	46	35	40	26	35
1297:	39	27	28	25	31	36	30	39
1305:	35	44	29	44	36	33	30	27
1313:	31	33	49	33	31	43	33	34
1321:	32	29	26	33	30	29	30	30
1329:	19	47	31	27	36	27	37	32
1337:	38	28	34	34	35	41	28	38
1345:	28	33	28	49	38	27	26	22
1353:	42	29	32	35	28	40	31	34
1361:	37	27	22	28	33	39	33	33
1369:	23	26	25	31	45	39	76	122
1377:	201	157	95	33	40	36	41	65
1385:	83	42	38	34	27	33	33	50
1393:	16	36	25	29	31	30	48	80
1401:	102	80	44	31	40	74	123	135
1409:	83	40	38	33	27	41	43	39
1417:	30	36	39	25	21	33	26	31
1425:	40	41	33	28	35	33	33	36
1433:	27	21	34	37	34	33	31	24
1441:	37	32	27	34	32	26	25	42
1449:	39	38	30	31	28	38	32	33
1457:	33	43	39	47	51	36	40	29
1465:	27	37	42	39	36	39	29	26
1473:	47	32	32	37	34	33	43	29
1481:	39	36	35	29	26	30	25	31
1489:	20	34	33	33	37	34	39	43
1497:	32	40	43	30	46	33	27	41
1505:	35	45	64	99	104	99	41	41
1513:	45	43	36	35	30	40	30	35
1521:	36	37	39	40	30	39	36	48
1529:	34	27	28	40	36	39	31	50
1537:	31	40	38	39	33	41	43	36
1545:	28	29	33	30	23	31	26	25
1553:	23	25	24	21	30	26	35	35
1561:	21	23	20	28	23	26	20	21
1569:	22	23	18	26	24	24	25	22
1577:	28	21	28	26	28	53	56	47
1585:	37	20	25	16	20	15	30	23
1593:	22	38	21	26	19	29	21	36
1601:	22	17	19	22	22	24	26	31
1609:	29	26	18	22	19	21	23	21
1617:	22	21	20	24	15	14	19	24
1625:	14	15	16	9	20	17	17	14
1633:	17	14	16	20	9	19	13	13
1641:	13	10	21	17	14	20	15	10
1649:	18	17	14	13	14	9	10	13
1657:	21	17	23	41	48	40	17	10

1665:	12	14	12	9	12	9	14	16

Sample Title: FEEBRISID-3 028-029

Channel								
1673:	10	13	12	11	13	10	18	8
1681:	12	14	17	17	13	15	6	18
1689:	11	11	5	18	16	13	19	8
1697:	15	7	8	7	10	12	15	4
1705:	14	11	7	9	10	8	11	12
1713:	9	6	11	8	13	12	5	9
1721:	11	11	7	6	10	22	31	74
1729:	105	109	40	21	13	6	13	12
1737:	8	11	4	5	15	9	13	16
1745:	7	9	9	9	10	14	10	9
1753:	10	10	15	7	8	12	13	13
1761:	36	120	336	496	386	177	52	10
1769:	9	3	5	10	3	3	6	6
1777:	9	10	7	0	7	8	7	8
1785:	8	9	4	6	12	10	6	3
1793:	7	7	8	6	9	8	11	13
1801:	8	8	4	10	9	17	8	10
1809:	10	10	10	6	12	8	7	6
1817:	3	9	8	10	7	7	9	6
1825:	13	6	7	6	10	7	6	7
1833:	6	9	7	12	19	20	16	11
1841:	11	7	12	13	23	53	79	63
1849:	41	14	10	5	8	12	11	11
1857:	12	9	4	8	8	7	10	6
1865:	9	3	9	10	13	5	15	9
1873:	21	16	7	3	7	6	3	5
1881:	8	11	6	11	6	11	6	9
1889:	7	11	10	8	11	8	12	11
1897:	12	8	9	7	9	13	8	7
1905:	10	5	12	8	16	10	7	6
1913:	7	8	7	4	5	12	7	4
1921:	9	6	8	8	10	11	6	8
1929:	7	3	9	6	9	8	6	18
1937:	11	6	5	7	8	5	11	4
1945:	7	10	5	7	7	5	8	10
1953:	13	5	10	11	7	9	10	7
1961:	11	8	6	8	10	3	12	8
1969:	6	8	7	7	12	3	6	5
1977:	5	8	3	6	7	8	3	8
1985:	5	4	4	0	6	6	7	7
1993:	7	7	8	3	10	8	4	5
2001:	2	6	7	6	6	4	3	7
2009:	6	6	7	6	9	3	4	4
2017:	6	11	7	6	9	3	6	6
2025:	1	2	5	6	2	5	7	6
2033:	5	5	3	7	4	1	4	5
2041:	6	2	6	3	5	6	2	5
2049:	6	5	9	7	9	5	7	6
2057:	7	7	5	5	3	2	2	4
2065:	4	3	4	1	4	6	3	5
2073:	1	4	1	2	8	4	5	2
2081:	2	5	3	5	4	3	4	3
2089:	6	2	5	4	3	1	4	5

2097:	5	3	1	4	1	4	5	1

Sample Title: FEEBRISID-3 028-029

Channel								
2105:	2	1	6	2	9	4	7	3
2113:	4	3	3	10	18	34	28	21
2121:	9	3	4	1	0	2	2	2
2129:	2	1	3	4	3	2	2	0
2137:	2	4	2	4	3	3	5	2
2145:	2	1	1	4	4	4	0	2
2153:	5	0	1	3	4	5	2	2
2161:	0	1	5	2	2	1	3	4
2169:	2	5	3	1	0	1	3	11
2177:	5	2	5	1	1	1	1	8
2185:	5	4	5	4	3	3	4	4
2193:	6	4	1	5	1	3	0	5
2201:	19	48	110	133	85	29	12	6
2209:	3	1	1	5	2	3	3	2
2217:	5	3	0	1	1	2	4	4
2225:	2	3	4	0	2	3	4	3
2233:	1	2	2	1	1	2	2	5
2241:	0	2	0	1	2	0	2	4
2249:	2	0	2	1	1	0	2	2
2257:	1	2	3	0	3	1	1	1
2265:	1	1	2	1	1	2	1	3
2273:	2	0	1	1	3	2	7	1
2281:	1	3	2	1	0	1	2	3
2289:	2	3	4	4	11	3	7	3
2297:	0	2	1	0	3	0	1	0
2305:	0	2	2	0	0	1	2	0
2313:	2	0	0	3	1	0	1	1
2321:	2	0	0	2	6	1	0	2
2329:	0	0	0	1	2	1	0	0
2337:	0	1	2	0	3	0	3	1
2345:	1	2	1	1	1	4	0	1
2353:	0	0	0	0	0	0	3	1
2361:	1	0	0	1	0	1	0	1
2369:	1	3	0	4	2	2	1	0
2377:	1	0	0	0	1	1	2	2
2385:	1	1	2	0	0	0	0	2
2393:	1	2	0	0	0	2	3	2
2401:	0	0	0	0	3	1	2	0
2409:	0	1	0	1	0	0	0	1
2417:	0	1	0	1	0	2	0	1
2425:	2	0	1	1	0	1	1	0
2433:	1	1	0	1	0	1	0	0
2441:	0	1	1	2	11	22	30	35
2449:	13	5	2	1	0	0	1	0
2457:	0	0	0	1	0	1	0	0
2465:	2	0	1	0	0	0	1	1
2473:	1	0	0	0	1	0	1	1
2481:	1	2	0	0	0	0	0	0
2489:	3	0	0	0	1	1	0	1
2497:	0	1	0	1	0	1	0	0
2505:	1	0	1	0	0	2	0	0
2513:	0	1	0	0	2	0	0	1
2521:	1	1	1	1	3	1	1	1

2529:	0	0	0	0	0	0	1	1

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Channel								
2537:	0	0	0	0	1	0	1	0
2545:	0	1	0	0	0	1	0	0
2553:	1	0	0	0	0	0	1	1
2561:	0	0	1	1	0	1	1	0
2569:	0	0	2	0	1	0	0	1
2577:	0	0	0	0	1	0	1	1
2585:	0	0	0	0	1	1	1	0
2593:	0	0	0	0	1	0	0	0
2601:	0	0	0	0	0	2	0	0
2609:	1	0	0	3	4	5	5	1
2617:	1	0	0	0	1	0	1	0
2625:	0	0	0	2	0	0	0	0
2633:	0	0	1	1	2	0	1	1
2641:	0	0	0	1	0	0	0	0
2649:	0	0	0	1	0	1	0	0
2657:	1	1	0	2	0	0	0	0
2665:	0	0	0	1	1	0	0	0
2673:	1	0	0	1	0	0	0	0
2681:	0	0	0	0	0	0	1	0
2689:	1	0	0	0	2	2	1	1
2697:	1	0	0	2	1	0	0	0
2705:	3	1	0	0	0	0	1	0
2713:	1	0	0	0	1	0	0	0
2721:	0	0	0	0	0	0	0	1
2729:	0	1	0	0	1	0	0	0
2737:	0	0	0	0	0	0	1	0
2745:	0	1	0	0	0	0	0	0
2753:	0	1	0	1	0	0	0	0
2761:	1	1	0	1	0	0	0	1
2769:	0	0	0	0	0	0	1	0
2777:	0	0	0	1	0	0	0	0
2785:	0	0	2	0	2	0	0	0
2793:	0	0	1	0	0	0	1	0
2801:	1	1	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	1	0	0	0	0	0	0	0
2825:	1	0	0	1	1	0	1	0
2833:	0	0	0	0	1	1	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	1	0
2865:	0	0	0	0	0	0	0	0
2873:	1	0	0	0	2	1	1	0
2881:	0	0	1	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	1	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	1	0	0	0
2929:	0	2	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	1	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	2	0	0	0	0

Sample Title: FEEBRISID-3 028-029

Channel								
2969:	0	0	0	0	1	0	1	0
2977:	0	0	0	1	0	0	0	0
2985:	0	1	0	0	0	1	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	1	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	1	0	0	1	0	0	0	0
3049:	0	0	0	0	0	1	0	0
3057:	0	0	1	0	0	0	0	0
3065:	0	0	1	0	0	0	0	0
3073:	0	0	0	0	1	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	1	0	0	0	0
3097:	1	0	0	0	0	0	0	0
3105:	1	0	0	0	0	1	1	0
3113:	0	1	0	0	0	0	1	0
3121:	0	0	0	0	2	0	0	0
3129:	0	2	0	0	0	0	0	0
3137:	0	0	0	0	1	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	1	0	0	0	0	0	1
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	1	0	0	0	1	0	1	0
3201:	1	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	1	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	1	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	1	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	2	0
3321:	0	0	0	1	0	0	3	0
3329:	0	0	0	0	0	0	0	1
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	1	0	0	0	0	0
3369:	0	0	0	1	0	0	0	0
3377:	0	0	2	0	0	1	0	0
3385:	1	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-3 028-029

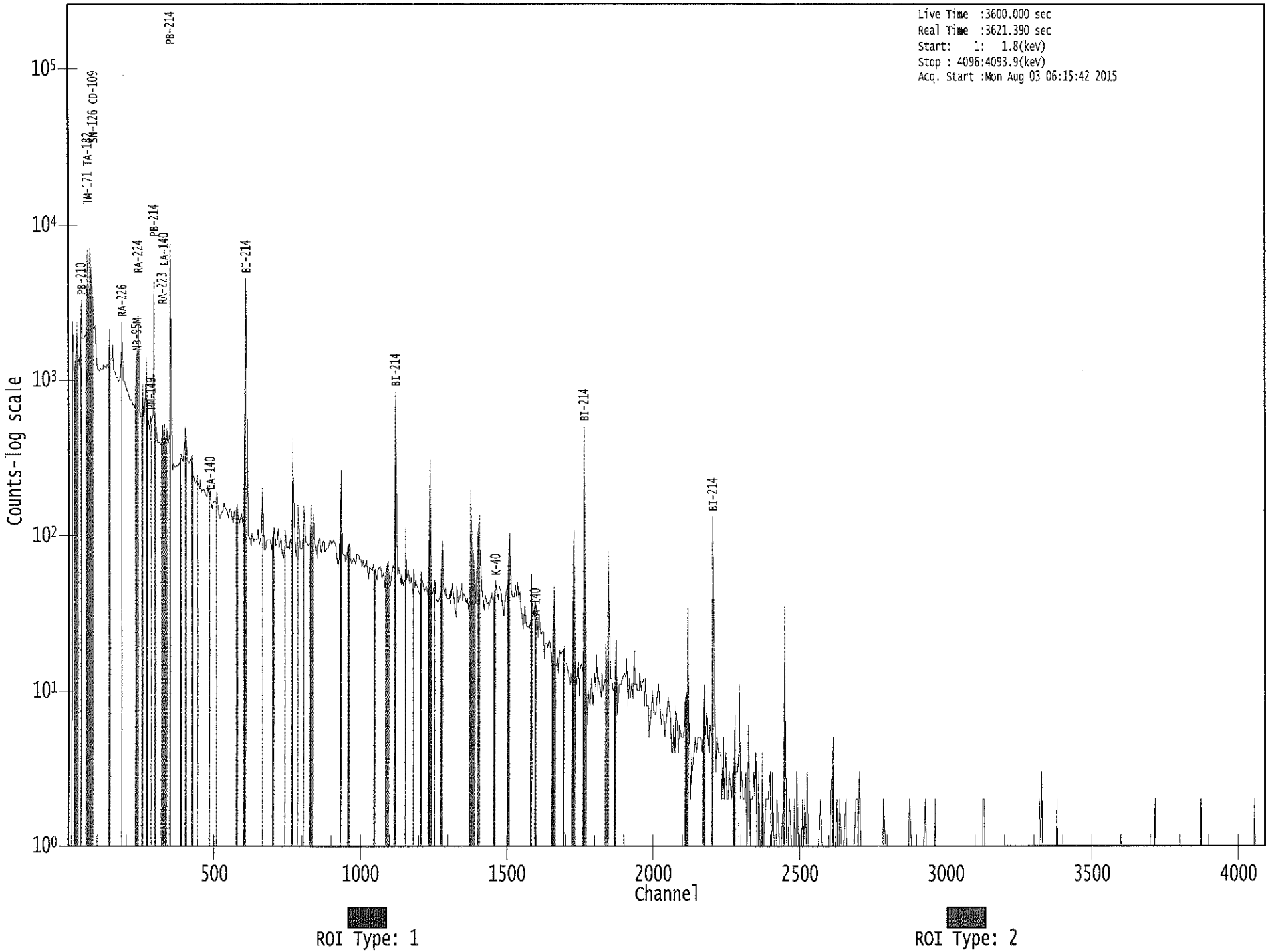
Channel							
3401:	1	0	1	0	0	0	0	0
3409:	0	0	0	1	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	1	0	0	0	0
3433:	0	0	1	0	0	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	1	0	0	0	0	0	0	0
3457:	0	1	0	0	0	0	0	1
3465:	0	0	0	1	0	0	1	0
3473:	0	0	0	0	1	0	0	0
3481:	0	0	0	1	0	0	0	0
3489:	1	0	0	0	0	0	0	1
3497:	0	0	0	0	1	0	0	0
3505:	1	0	0	0	1	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	1
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	1	0	0	0
3553:	0	0	0	0	0	1	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	1	1	0	1	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	1	0	0	0	0	0	1	0
3601:	0	0	1	0	0	0	0	0
3609:	0	0	0	0	1	0	0	1
3617:	0	1	0	0	1	0	1	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	1	0	0	0
3641:	0	0	0	1	0	0	0	1
3649:	1	0	0	0	0	1	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	1	0	0	1	0	0	0
3681:	0	0	0	0	1	0	0	0
3689:	0	1	0	0	0	0	0	0
3697:	1	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	2	0	0	0	0
3721:	0	0	0	0	0	0	0	1
3729:	0	0	0	0	0	1	0	0
3737:	1	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	1	0	0	0	0	1	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	1	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	1	0	0	1	0
3817:	0	0	0	0	1	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-3 028-029

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	1	0	0	0	1
3849:	0	0	0	0	0	0	0	0
3857:	1	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	2
3873:	0	0	0	0	0	0	0	0
3881:	0	1	0	0	0	0	0	0
3889:	0	0	0	1	0	0	0	0
3897:	0	0	0	0	0	0	1	0
3905:	0	0	0	0	0	0	0	0
3913:	1	0	0	0	0	0	0	0
3921:	0	0	1	1	0	0	0	0
3929:	0	0	0	0	0	0	0	1
3937:	1	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	1	0	0	1	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	1	1	0	1	0	0	0	0
4041:	0	1	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	2
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	1
4089:	0	0	0	0	0	0	0	0

0000025452.CNF



Apex-Gamma

Analysis Report for 1507047-04
FEEBRISID-3 028-029

8/3

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-04
Sample Description	: FEEBRISID-3 028-029
Sample Type	: SOIL
Sample Size	: 2.832E+02 grams
Facility	: Countroom
Sample Taken On	: 7/6/2015 7:51:18AM
Acquisition Started	: 8/3/2015 7:19:59AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3619.8 seconds
Dead Time	: 0.55 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 14 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 25457

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

Analysis Report for 1507047-04

FEEBRISID-3 028-029

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 8:20:34AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.23	26.48	0.0000	0.00
2	31.82	31.07	0.0000	0.00
3	36.32	35.57	0.0000	0.00
4	46.53	45.79	0.0000	0.00
5	67.58	66.85	0.0000	0.00
6	76.31	75.58	0.0000	0.00
7	83.27	82.54	0.0000	0.00
8	87.56	86.83	0.0000	0.00
9	95.09	94.37	0.0000	0.00
10	112.86	112.15	0.0000	0.00
11	143.83	143.12	0.0000	0.00
12	154.16	153.46	0.0000	0.00
13	186.11	185.42	0.0000	0.00
14	235.92	235.26	0.0000	0.00
15	241.93	241.27	0.0000	0.00
16	256.39	255.74	0.0000	0.00
17	270.43	269.78	0.0000	0.00
18	284.73	284.08	0.0000	0.00
19	295.16	294.52	0.0000	0.00
20	301.14	300.51	0.0000	0.00
21	323.35	322.72	0.0000	0.00
22	329.88	329.26	0.0000	0.00
23	338.99	338.37	0.0000	0.00
24	351.76	351.14	0.0000	0.00
25	402.94	402.35	0.0000	0.00
26	427.80	427.22	0.0000	0.00
27	454.26	453.70	0.0000	0.00
28	487.00	486.45	0.0000	0.00
29	510.88	510.34	0.0000	0.00
30	557.66	557.14	0.0000	0.00
31	580.83	580.32	0.0000	0.00
32	609.12	608.62	0.0000	0.00
33	665.14	664.67	0.0000	0.00
34	681.09	680.63	0.0000	0.00
35	703.25	702.80	0.0000	0.00
36	742.31	741.89	0.0000	0.00
37	768.08	767.67	0.0000	0.00
38	785.60	785.19	0.0000	0.00
39	805.96	805.56	0.0000	0.00
40	831.34	830.96	0.0000	0.00
41	838.80	838.42	0.0000	0.00
42	933.88	933.55	0.0000	0.00

Analysis Report for 1507047-04

FEEBRISID-3 028-029

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	971.41	971.10	0.0000	0.00
44	1068.09	1067.84	0.0000	0.00
45	1120.01	1119.78	0.0000	0.00
46	1154.72	1154.51	0.0000	0.00
47	1207.73	1207.55	0.0000	0.00
48	1237.75	1237.59	0.0000	0.00
49	1253.79	1253.64	0.0000	0.00
50	1280.54	1280.40	0.0000	0.00
51	1300.38	1300.26	0.0000	0.00
52	1316.10	1315.98	0.0000	0.00
53	1377.29	1377.21	0.0000	0.00
54	1384.78	1384.71	0.0000	0.00
55	1400.66	1400.60	0.0000	0.00
56	1407.58	1407.52	0.0000	0.00
57	1460.26	1460.23	0.0000	0.00
58	1508.55	1508.55	0.0000	0.00
59	1582.51	1582.55	0.0000	0.00
60	1660.84	1660.93	0.0000	0.00
61	1674.15	1674.26	0.0000	0.00
62	1692.25	1692.36	0.0000	0.00
63	1729.24	1729.38	0.0000	0.00
64	1763.93	1764.09	0.0000	0.00
65	1837.78	1837.99	0.0000	0.00
66	1846.90	1847.12	0.0000	0.00
67	1871.00	1871.24	0.0000	0.00
68	2117.83	2118.23	0.0000	0.00
69	2132.83	2133.24	0.0000	0.00
70	2203.30	2203.76	0.0000	0.00
71	2269.89	2270.40	0.0000	0.00
72	2277.91	2278.43	0.0000	0.00
73	2292.48	2293.00	0.0000	0.00
74	2446.72	2447.37	0.0000	0.00
75	2613.75	2614.52	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-04

FEEBRISID-3 028-029

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:20:34AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	27.23	23 -	39	26.48	8.10E+02	339.64	1.81E+04	2.51
m	2	31.82	23 -	39	31.07	3.07E+03	318.66	1.59E+04	2.42
m	3	36.32	23 -	39	35.57	1.08E+03	381.41	2.05E+04	3.08
	4	46.53	40 -	51	45.79	5.81E+03	537.20	3.33E+04	2.37
M	5	67.58	59 -	91	66.85	1.70E+04	603.83	4.18E+04	3.72
m	6	76.31	59 -	91	75.58	2.06E+04	634.06	4.02E+04	3.77
m	7	83.27	59 -	91	82.54	8.81E+03	613.25	3.90E+04	3.78
m	8	87.56	59 -	91	86.83	4.55E+03	502.92	3.14E+04	3.07
	9	95.09	91 -	98	94.37	1.63E+03	388.93	2.37E+04	2.49
	10	112.86	109 -	116	112.15	5.27E+02	324.99	1.72E+04	4.11
	11	143.83	139 -	147	143.12	2.36E+03	389.77	2.19E+04	2.17
	12	154.16	150 -	157	153.46	1.06E+03	347.37	1.94E+04	2.27
	13	186.11	181 -	190	185.42	4.23E+03	382.21	1.84E+04	2.52
M	14	235.92	227 -	246	235.26	2.44E+03	280.80	1.05E+04	2.89
m	15	241.93	227 -	246	241.27	5.70E+03	278.99	8.89E+03	2.50
	16	256.39	249 -	262	255.74	1.93E+03	365.05	1.39E+04	3.65
	17	270.43	264 -	276	269.78	3.74E+03	344.09	1.22E+04	3.62
	18	284.73	280 -	288	284.08	3.88E+02	232.50	8.05E+03	4.85
M	19	295.16	289 -	306	294.52	1.10E+04	272.83	5.55E+03	2.40
m	20	301.14	289 -	306	300.51	1.27E+03	356.69	9.46E+03	5.59
	21	323.35	319 -	327	322.72	3.74E+02	206.40	6.37E+03	2.62
	22	329.88	327 -	333	329.26	3.20E+02	170.83	5.08E+03	2.14
	23	338.99	334 -	343	338.37	3.58E+02	222.10	6.80E+03	2.48
	24	351.76	345 -	357	351.14	1.96E+04	379.40	7.70E+03	2.59
	25	402.94	396 -	407	402.35	1.10E+03	237.88	6.53E+03	5.02
	26	427.80	423 -	432	427.22	3.69E+02	184.11	4.61E+03	3.36
	27	454.26	450 -	458	453.70	1.38E+02	144.90	3.14E+03	2.72
	28	487.00	483 -	490	486.45	1.72E+02	123.71	2.42E+03	2.16
	29	510.88	506 -	514	510.34	2.18E+02	130.30	2.47E+03	3.06
	30	557.66	554 -	561	557.14	9.80E+01	106.28	1.83E+03	2.86
	31	580.83	576 -	584	580.32	1.13E+02	122.39	2.22E+03	1.81
	32	609.12	602 -	614	608.62	1.24E+04	265.52	2.48E+03	2.55
	33	665.14	658 -	669	664.67	3.73E+02	127.18	1.83E+03	2.61
	34	681.09	676 -	685	680.63	8.34E+01	99.05	1.35E+03	7.77
	35	703.25	696 -	710	702.80	2.44E+02	148.13	2.21E+03	3.28
	36	742.31	737 -	746	741.89	1.70E+02	103.85	1.44E+03	3.40
	37	768.08	761 -	774	767.67	1.30E+03	145.40	1.76E+03	2.85
	38	785.60	780 -	788	785.19	2.10E+02	97.15	1.32E+03	3.00
	39	805.96	801 -	810	805.56	2.54E+02	105.48	1.44E+03	2.74
	40	831.34	826 -	834	830.96	1.21E+02	100.01	1.46E+03	1.52

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	838.80	835 -	842	838.42	1.28E+02	88.93	1.23E+03	2.14
	42	933.88	928 -	939	933.55	6.05E+02	117.63	1.42E+03	2.33
	43	971.41	967 -	976	971.10	1.06E+02	88.50	1.05E+03	7.62
	44	1068.09	1063 -	1073	1067.84	1.22E+02	89.92	1.02E+03	3.22
	45	1120.01	1114 -	1125	1119.78	2.20E+03	133.45	1.13E+03	2.72
	46	1154.72	1148 -	1160	1154.51	3.67E+02	98.13	9.53E+02	3.18
	47	1207.73	1203 -	1211	1207.55	6.43E+01	68.87	6.83E+02	1.71
	48	1237.75	1232 -	1243	1237.59	8.62E+02	99.68	8.13E+02	2.88
	49	1253.79	1248 -	1258	1253.64	9.78E+01	72.77	6.52E+02	3.34
	50	1280.54	1276 -	1285	1280.40	2.01E+02	73.87	6.63E+02	2.73
	51	1300.38	1295 -	1306	1300.26	6.91E+01	73.27	6.38E+02	8.34
	52	1316.10	1312 -	1320	1315.98	6.31E+01	54.88	4.28E+02	6.33
M	53	1377.29	1372 -	1390	1377.21	5.89E+02	75.34	5.15E+02	3.09
m	54	1384.78	1372 -	1390	1384.71	1.12E+02	67.69	5.63E+02	3.23
M	55	1400.66	1392 -	1413	1400.60	1.66E+02	64.04	5.11E+02	3.11
m	56	1407.58	1392 -	1413	1407.52	3.34E+02	69.49	5.43E+02	2.90
	57	1460.26	1456 -	1464	1460.23	7.84E+01	65.00	5.99E+02	3.52
	58	1508.55	1502 -	1514	1508.55	2.55E+02	93.01	8.99E+02	2.23
	59	1582.51	1579 -	1587	1582.55	9.36E+01	52.23	3.67E+02	2.70
	60	1660.84	1654 -	1668	1660.93	1.62E+02	59.01	2.92E+02	2.85
	61	1674.15	1669 -	1680	1674.26	6.60E+01	44.14	2.12E+02	7.75
	62	1692.25	1689 -	1696	1692.36	6.29E+01	30.72	1.14E+02	4.68
	63	1729.24	1724 -	1736	1729.38	3.44E+02	59.39	2.53E+02	2.90
	64	1763.93	1756 -	1772	1764.09	1.69E+03	96.70	2.45E+02	3.15
	65	1837.78	1835 -	1842	1837.99	4.00E+01	30.53	1.30E+02	4.26
	66	1846.90	1842 -	1852	1847.12	1.88E+02	43.14	1.46E+02	3.45
	67	1871.00	1866 -	1878	1871.24	4.13E+01	38.65	1.57E+02	4.53
	68	2117.83	2112 -	2124	2118.23	1.49E+02	29.52	3.11E+01	3.38
	69	2132.83	2126 -	2141	2133.24	2.35E+01	24.00	4.90E+01	1.52
	70	2203.30	2198 -	2208	2203.76	3.89E+02	43.91	5.03E+01	3.41
	71	2269.89	2265 -	2273	2270.40	7.67E+00	9.41	8.67E+00	2.46
	72	2277.91	2274 -	2283	2278.43	1.43E+01	9.64	5.41E+00	6.51
	73	2292.48	2288 -	2297	2293.00	2.52E+01	15.36	1.76E+01	1.26
	74	2446.72	2443 -	2451	2447.37	1.07E+02	21.36	4.61E+00	3.06
	75	2613.75	2610 -	2617	2614.52	2.10E+01	11.49	8.00E+00	2.03

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:20:34AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	27.23	23 -	39	8.10E+02	339.64	1.81E+04	2.21E+02
m	2	31.82	23 -	39	3.07E+03	318.66	1.59E+04	2.07E+02
m	3	36.32	23 -	39	1.08E+03	381.41	2.05E+04	2.35E+02
	4	46.53	40 -	51	5.81E+03	537.20	3.33E+04	4.23E+02
M	5	67.58	59 -	91	1.70E+04	603.83	4.18E+04	3.36E+02
m	6	76.31	59 -	91	2.06E+04	634.06	4.02E+04	3.30E+02
m	7	83.27	59 -	91	8.81E+03	613.25	3.90E+04	3.25E+02
m	8	87.56	59 -	91	4.55E+03	502.92	3.14E+04	2.91E+02
	9	95.09	91 -	98	1.63E+03	388.93	2.37E+04	3.13E+02
	10	112.86	109 -	116	5.27E+02	324.99	1.72E+04	2.64E+02
	11	143.83	139 -	147	2.36E+03	389.77	2.19E+04	3.10E+02
	12	154.16	150 -	157	1.06E+03	347.37	1.94E+04	2.80E+02
	13	186.11	181 -	190	4.23E+03	382.21	1.84E+04	2.95E+02
M	14	235.92	227 -	246	2.44E+03	280.80	1.05E+04	1.69E+02
m	15	241.93	227 -	246	5.70E+03	278.99	8.89E+03	1.55E+02
	16	256.39	249 -	262	1.93E+03	365.05	1.39E+04	2.91E+02
	17	270.43	264 -	276	3.74E+03	344.09	1.22E+04	2.64E+02
	18	284.73	280 -	288	3.88E+02	232.50	8.05E+03	1.88E+02
M	19	295.16	289 -	306	1.10E+04	272.83	5.55E+03	1.23E+02
m	20	301.14	289 -	306	1.27E+03	356.69	9.46E+03	1.60E+02
	21	323.35	319 -	327	3.74E+02	206.40	6.37E+03	1.67E+02
	22	329.88	327 -	333	3.20E+02	170.83	5.08E+03	1.37E+02
	23	338.99	334 -	343	3.58E+02	222.10	6.80E+03	1.80E+02
	24	351.76	345 -	357	1.96E+04	379.40	7.70E+03	2.10E+02
	25	402.94	396 -	407	1.10E+03	237.88	6.53E+03	1.88E+02
	26	427.80	423 -	432	3.69E+02	184.11	4.61E+03	1.48E+02
	27	454.26	450 -	458	1.38E+02	144.90	3.14E+03	1.18E+02
	28	487.00	483 -	490	1.72E+02	123.71	2.42E+03	9.94E+01
	29	510.88	506 -	514	2.18E+02	130.30	2.47E+03	1.04E+02
	30	557.66	554 -	561	9.80E+01	106.28	1.83E+03	8.58E+01
	31	580.83	576 -	584	1.13E+02	122.39	2.22E+03	9.91E+01
	32	609.12	602 -	614	1.24E+04	265.52	2.48E+03	1.19E+02
	33	665.14	658 -	669	3.73E+02	127.18	1.83E+03	9.96E+01
	34	681.09	676 -	685	8.34E+01	99.05	1.35E+03	8.00E+01
	35	703.25	696 -	710	2.44E+02	148.13	2.21E+03	1.19E+02
	36	742.31	737 -	746	1.70E+02	103.85	1.44E+03	8.26E+01
	37	768.08	761 -	774	1.30E+03	145.40	1.76E+03	1.04E+02
	38	785.60	780 -	788	2.10E+02	97.15	1.32E+03	7.62E+01
	39	805.96	801 -	810	2.54E+02	105.48	1.44E+03	8.26E+01
	40	831.34	826 -	834	1.21E+02	100.01	1.46E+03	8.02E+01
	41	838.80	835 -	842	1.28E+02	88.93	1.23E+03	7.07E+01
	42	933.88	928 -	939	6.05E+02	117.63	1.42E+03	8.78E+01
	43	971.41	967 -	976	1.06E+02	88.50	1.05E+03	7.08E+01
	44	1068.09	1063 -	1073	1.22E+02	89.92	1.02E+03	7.17E+01
	45	1120.01	1114 -	1125	2.20E+03	133.45	1.13E+03	7.81E+01
	46	1154.72	1148 -	1160	3.67E+02	98.13	9.53E+02	7.43E+01
	47	1207.73	1203 -	1211	6.43E+01	68.87	6.83E+02	5.51E+01
	48	1237.75	1232 -	1243	8.62E+02	99.68	8.13E+02	6.62E+01

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	49	1253.79	1248 -	1258	9.78E+01	72.77	6.52E+02	5.76E+01
	50	1280.54	1276 -	1285	2.01E+02	73.87	6.63E+02	5.61E+01
	51	1300.38	1295 -	1306	6.91E+01	73.27	6.38E+02	5.87E+01
	52	1316.10	1312 -	1320	6.31E+01	54.88	4.28E+02	4.32E+01
M	53	1377.29	1372 -	1390	5.89E+02	75.34	5.15E+02	3.73E+01
m	54	1384.78	1372 -	1390	1.12E+02	67.69	5.63E+02	3.90E+01
M	55	1400.66	1392 -	1413	1.66E+02	64.04	5.11E+02	3.72E+01
m	56	1407.58	1392 -	1413	3.34E+02	69.49	5.43E+02	3.83E+01
	57	1460.26	1456 -	1464	7.84E+01	65.00	5.99E+02	5.14E+01
	58	1508.55	1502 -	1514	2.55E+02	93.01	8.99E+02	7.18E+01
	59	1582.51	1579 -	1587	9.36E+01	52.23	3.67E+02	3.99E+01
	60	1660.84	1654 -	1668	1.62E+02	59.01	2.92E+02	4.38E+01
	61	1674.15	1669 -	1680	6.60E+01	44.14	2.12E+02	3.37E+01
	62	1692.25	1689 -	1696	6.29E+01	30.72	1.14E+02	2.16E+01
	63	1729.24	1724 -	1736	3.44E+02	59.39	2.53E+02	3.81E+01
	64	1763.93	1756 -	1772	1.69E+03	96.70	2.45E+02	4.18E+01
	65	1837.78	1835 -	1842	4.00E+01	30.53	1.30E+02	2.28E+01
	66	1846.90	1842 -	1852	1.88E+02	43.14	1.46E+02	2.74E+01
	67	1871.00	1866 -	1878	4.13E+01	38.65	1.57E+02	3.00E+01
	68	2117.83	2112 -	2124	1.49E+02	29.52	3.11E+01	1.36E+01
	69	2132.83	2126 -	2141	2.35E+01	24.00	4.90E+01	1.80E+01
	70	2203.30	2198 -	2208	3.89E+02	43.91	5.03E+01	1.59E+01
	71	2269.89	2265 -	2273	7.67E+00	9.41	8.67E+00	6.25E+00
	72	2277.91	2274 -	2283	1.43E+01	9.64	5.41E+00	4.92E+00
	73	2292.48	2288 -	2297	2.52E+01	15.36	1.76E+01	9.56E+00
	74	2446.72	2443 -	2451	1.07E+02	21.36	4.61E+00	4.46E+00
	75	2613.75	2610 -	2617	2.10E+01	11.49	8.00E+00	5.70E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 8:20:34AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	27.23	23 -	39	26.48	8.10E+02	339.64	1.81E+04	.....
m	2	31.82	23 -	39	31.07	3.07E+03	318.66	1.59E+04	.....
m	3	36.32	23 -	39	35.57	1.08E+03	381.41	2.05E+04	PM-145 I-125
	4	46.53	40 -	51	45.79	5.81E+03	537.20	3.33E+04	PB-210
M	5	67.58	59 -	91	66.85	1.70E+04	603.83	4.18E+04	TH-230 TA-182 TI-44 TM-171
m	6	76.31	59 -	91	75.58	2.06E+04	634.06	4.02E+04	.....
m	7	83.27	59 -	91	82.54	8.81E+03	613.25	3.90E+04	TH-231
m	8	87.56	59 -	91	86.83	4.55E+03	502.92	3.14E+04	SN-126 CD-109 LU-176
	9	95.09	91 -	98	94.37	1.63E+03	388.93	2.37E+04	.....
	10	112.86	109 -	116	112.15	5.27E+02	324.99	1.72E+04	.....
	11	143.83	139 -	147	143.12	2.36E+03	389.77	2.19E+04	U-235
	12	154.16	150 -	157	153.46	1.06E+03	347.37	1.94E+04	CS-136
	13	186.11	181 -	190	185.42	4.23E+03	382.21	1.84E+04	RA-226
M	14	235.92	227 -	246	235.26	2.44E+03	280.80	1.05E+04	TH-227 NB-95M
m	15	241.93	227 -	246	241.27	5.70E+03	278.99	8.89E+03	RA-224
	16	256.39	249 -	262	255.74	1.93E+03	365.05	1.39E+04	TH-227
	17	270.43	264 -	276	269.78	3.74E+03	344.09	1.22E+04	.....
	18	284.73	280 -	288	284.08	3.88E+02	232.50	8.05E+03	I-131
M	19	295.16	289 -	306	294.52	1.10E+04	272.83	5.55E+03	PB-214
m	20	301.14	289 -	306	300.51	1.27E+03	356.69	9.46E+03	GA-67
	21	323.35	319 -	327	322.72	3.74E+02	206.40	6.37E+03	RA-223
	22	329.88	327 -	333	329.26	3.20E+02	170.83	5.08E+03	.....
	23	338.99	334 -	343	338.37	3.58E+02	222.10	6.80E+03	AC-228
	24	351.76	345 -	357	351.14	1.96E+04	379.40	7.70E+03	PB-214
	25	402.94	396 -	407	402.35	1.10E+03	237.88	6.53E+03	.....
	26	427.80	423 -	432	427.22	3.69E+02	184.11	4.61E+03	SB-125
	27	454.26	450 -	458	453.70	1.38E+02	144.90	3.14E+03	PM-146
	28	487.00	483 -	490	486.45	1.72E+02	123.71	2.42E+03	LA-140
	29	510.88	506 -	514	510.34	2.18E+02	130.30	2.47E+03	.....
	30	557.66	554 -	561	557.14	9.80E+01	106.28	1.83E+03	.....
	31	580.83	576 -	584	580.32	1.13E+02	122.39	2.22E+03	.....
	32	609.12	602 -	614	608.62	1.24E+04	265.52	2.48E+03	BI-214
	33	665.14	658 -	669	664.67	3.73E+02	127.18	1.83E+03	CE-143
	34	681.09	676 -	685	680.63	8.34E+01	99.05	1.35E+03	.....
	35	703.25	696 -	710	702.80	2.44E+02	148.13	2.21E+03	NB-94
	36	742.31	737 -	746	741.89	1.70E+02	103.85	1.44E+03	.....
	37	768.08	761 -	774	767.67	1.30E+03	145.40	1.76E+03	.....
	38	785.60	780 -	788	785.19	2.10E+02	97.15	1.32E+03	.....
	39	805.96	801 -	810	805.56	2.54E+02	105.48	1.44E+03	.....
	40	831.34	826 -	834	830.96	1.21E+02	100.01	1.46E+03	PB-211
	41	838.80	835 -	842	838.42	1.28E+02	88.93	1.23E+03	.....
	42	933.88	928 -	939	933.55	6.05E+02	117.63	1.42E+03	.....
	43	971.41	967 -	976	971.10	1.06E+02	88.50	1.05E+03	.....
	44	1068.09	1063 -	1073	1067.84	1.22E+02	89.92	1.02E+03	.....
	45	1120.01	1114 -	1125	1119.78	2.20E+03	133.45	1.13E+03	BI-214 SC-46
	46	1154.72	1148 -	1160	1154.51	3.67E+02	98.13	9.53E+02	.....

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	47	1207.73	1203 -	1211	1207.55	6.43E+01	68.87	6.83E+02	.....
	48	1237.75	1232 -	1243	1237.59	8.62E+02	99.68	8.13E+02	CO-56
	49	1253.79	1248 -	1258	1253.64	9.78E+01	72.77	6.52E+02	.....
	50	1280.54	1276 -	1285	1280.40	2.01E+02	73.87	6.63E+02	.....
	51	1300.38	1295 -	1306	1300.26	6.91E+01	73.27	6.38E+02	.....
	52	1316.10	1312 -	1320	1315.98	6.31E+01	54.88	4.28E+02	.....
M	53	1377.29	1372 -	1390	1377.21	5.89E+02	75.34	5.15E+02	.....
m	54	1384.78	1372 -	1390	1384.71	1.12E+02	67.69	5.63E+02	AG-110M
M	55	1400.66	1392 -	1413	1400.60	1.66E+02	64.04	5.11E+02	.....
m	56	1407.58	1392 -	1413	1407.52	3.34E+02	69.49	5.43E+02	EU-152
	57	1460.26	1456 -	1464	1460.23	7.84E+01	65.00	5.99E+02	K-40
	58	1508.55	1502 -	1514	1508.55	2.55E+02	93.01	8.99E+02	.....
	59	1582.51	1579 -	1587	1582.55	9.36E+01	52.23	3.67E+02	.....
	60	1660.84	1654 -	1668	1660.93	1.62E+02	59.01	2.92E+02	.....
	61	1674.15	1669 -	1680	1674.26	6.60E+01	44.14	2.12E+02	.....
	62	1692.25	1689 -	1696	1692.36	6.29E+01	30.72	1.14E+02	.....
	63	1729.24	1724 -	1736	1729.38	3.44E+02	59.39	2.53E+02	.....
	64	1763.93	1756 -	1772	1764.09	1.69E+03	96.70	2.45E+02	BI-214
	65	1837.78	1835 -	1842	1837.99	4.00E+01	30.53	1.30E+02	.....
	66	1846.90	1842 -	1852	1847.12	1.88E+02	43.14	1.46E+02	.....
	67	1871.00	1866 -	1878	1871.24	4.13E+01	38.65	1.57E+02	.....
	68	2117.83	2112 -	2124	2118.23	1.49E+02	29.52	3.11E+01	.....
	69	2132.83	2126 -	2141	2133.24	2.35E+01	24.00	4.90E+01	.....
	70	2203.30	2198 -	2208	2203.76	3.89E+02	43.91	5.03E+01	BI-214
	71	2269.89	2265 -	2273	2270.40	7.67E+00	9.41	8.67E+00	.....
	72	2277.91	2274 -	2283	2278.43	1.43E+01	9.64	5.41E+00	.....
	73	2292.48	2288 -	2297	2293.00	2.52E+01	15.36	1.76E+01	.....
	74	2446.72	2443 -	2451	2447.37	1.07E+02	21.36	4.61E+00	.....
	75	2613.75	2610 -	2617	2614.52	2.10E+01	11.49	8.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 8:20:34AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	27.23	8.10E+02	339.64	2.98E-02	1.78E-03

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	2	31.82	3.07E+03	318.66	2.91E-02	1.78E-03
m	3	36.32	1.08E+03	381.41	2.83E-02	1.78E-03
	4	46.53	5.81E+03	537.20	2.63E-02	1.78E-03
M	5	67.58	1.70E+04	603.83	2.26E-02	1.74E-03
m	6	76.31	2.06E+04	634.06	2.12E-02	1.69E-03
m	7	83.27	8.81E+03	613.25	2.02E-02	1.66E-03
m	8	87.56	4.55E+03	502.92	1.97E-02	1.63E-03
	9	95.09	1.63E+03	388.93	1.87E-02	1.61E-03
	10	112.86	5.27E+02	324.99	1.68E-02	1.55E-03
	11	143.83	2.36E+03	389.77	1.42E-02	1.37E-03
	12	154.16	1.06E+03	347.37	1.35E-02	1.30E-03
	13	186.11	4.23E+03	382.21	1.16E-02	1.15E-03
M	14	235.92	2.44E+03	280.80	9.51E-03	9.95E-04
m	15	241.93	5.70E+03	278.99	9.30E-03	9.77E-04
	16	256.39	1.93E+03	365.05	8.84E-03	9.32E-04
	17	270.43	3.74E+03	344.09	8.43E-03	8.88E-04
	18	284.73	3.88E+02	232.50	8.05E-03	8.55E-04
M	19	295.16	1.10E+04	272.83	7.79E-03	8.43E-04
m	20	301.14	1.27E+03	356.69	7.64E-03	8.37E-04
	21	323.35	3.74E+02	206.40	7.16E-03	8.12E-04
	22	329.88	3.20E+02	170.83	7.02E-03	8.05E-04
	23	338.99	3.58E+02	222.10	6.85E-03	7.95E-04
	24	351.76	1.96E+04	379.40	6.61E-03	7.80E-04
	25	402.94	1.10E+03	237.88	5.81E-03	7.20E-04
	26	427.80	3.69E+02	184.11	5.48E-03	6.83E-04
	27	454.26	1.38E+02	144.90	5.17E-03	6.44E-04
	28	487.00	1.72E+02	123.71	4.83E-03	5.96E-04
	29	510.88	2.18E+02	130.30	4.61E-03	5.61E-04
	30	557.66	9.80E+01	106.28	4.23E-03	4.93E-04
	31	580.83	1.13E+02	122.39	4.06E-03	4.59E-04
	32	609.12	1.24E+04	265.52	3.88E-03	4.17E-04
	33	665.14	3.73E+02	127.18	3.55E-03	3.38E-04
	34	681.09	8.34E+01	99.05	3.47E-03	3.29E-04
	35	703.25	2.44E+02	148.13	3.36E-03	3.17E-04
	36	742.31	1.70E+02	103.85	3.19E-03	2.95E-04
	37	768.08	1.30E+03	145.40	3.08E-03	2.81E-04
	38	785.60	2.10E+02	97.15	3.02E-03	2.71E-04
	39	805.96	2.54E+02	105.48	2.94E-03	2.59E-04
	40	831.34	1.21E+02	100.01	2.85E-03	2.45E-04
	41	838.80	1.28E+02	88.93	2.83E-03	2.41E-04
	42	933.88	6.05E+02	117.63	2.55E-03	2.03E-04
	43	971.41	1.06E+02	88.50	2.45E-03	1.99E-04
	44	1068.09	1.22E+02	89.92	2.24E-03	1.86E-04
	45	1120.01	2.20E+03	133.45	2.14E-03	1.79E-04
	46	1154.72	3.67E+02	98.13	2.08E-03	1.75E-04
	47	1207.73	6.43E+01	68.87	2.00E-03	1.82E-04
	48	1237.75	8.62E+02	99.68	1.95E-03	1.90E-04
	49	1253.79	9.78E+01	72.77	1.93E-03	1.94E-04
	50	1280.54	2.01E+02	73.87	1.89E-03	2.02E-04
	51	1300.38	6.91E+01	73.27	1.87E-03	2.07E-04
	52	1316.10	6.31E+01	54.88	1.85E-03	2.11E-04
M	53	1377.29	5.89E+02	75.34	1.77E-03	2.06E-04
m	54	1384.78	1.12E+02	67.69	1.77E-03	2.05E-04

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	55	1400.66	1.66E+02	64.04	1.75E-03	2.02E-04
m	56	1407.58	3.34E+02	69.49	1.74E-03	2.00E-04
	57	1460.26	7.84E+01	65.00	1.68E-03	1.89E-04
	58	1508.55	2.55E+02	93.01	1.64E-03	1.79E-04
	59	1582.51	9.36E+01	52.23	1.57E-03	1.64E-04
	60	1660.84	1.62E+02	59.01	1.51E-03	1.47E-04
	61	1674.15	6.60E+01	44.14	1.50E-03	1.45E-04
	62	1692.25	6.29E+01	30.72	1.48E-03	1.41E-04
	63	1729.24	3.44E+02	59.39	1.46E-03	1.33E-04
	64	1763.93	1.69E+03	96.70	1.43E-03	1.26E-04
	65	1837.78	4.00E+01	30.53	1.39E-03	1.11E-04
	66	1846.90	1.88E+02	43.14	1.38E-03	1.11E-04
	67	1871.00	4.13E+01	38.65	1.37E-03	1.11E-04
	68	2117.83	1.49E+02	29.52	1.24E-03	1.11E-04
	69	2132.83	2.35E+01	24.00	1.24E-03	1.11E-04
	70	2203.30	3.89E+02	43.91	1.21E-03	1.11E-04
	71	2269.89	7.67E+00	9.41	1.18E-03	1.11E-04
	72	2277.91	1.43E+01	9.64	1.18E-03	1.11E-04
	73	2292.48	2.52E+01	15.36	1.17E-03	1.11E-04
	74	2446.72	1.07E+02	21.36	1.12E-03	1.11E-04
	75	2613.75	2.10E+01	11.49	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 8:20:34AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	27.23	8.10E+02	339.64			8.10E+02	3.40E+02
m	2	31.82	3.07E+03	318.66			3.07E+03	3.19E+02
m	3	36.32	1.08E+03	381.41			1.08E+03	3.81E+02
	4	46.53	5.81E+03	537.20	2.93E+01	8.52E+00	5.78E+03	5.37E+02
M	5	67.58	1.70E+04	603.83			1.70E+04	6.04E+02
m	6	76.31	2.06E+04	634.06			2.06E+04	6.34E+02
m	7	83.27	8.81E+03	613.25			8.81E+03	6.13E+02
m	8	87.56	4.55E+03	502.92			4.55E+03	5.03E+02
	9	95.09	1.63E+03	388.93			1.63E+03	3.89E+02

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	10	112.86	5.27E+02	324.99			5.27E+02	3.25E+02
	11	143.83	2.36E+03	389.77	1.23E+01	7.52E+00	2.35E+03	3.90E+02
	12	154.16	1.06E+03	347.37			1.06E+03	3.47E+02
	13	186.11	4.23E+03	382.21	2.05E+01	1.20E+01	4.21E+03	3.82E+02
M	14	235.92	2.44E+03	280.80			2.44E+03	2.81E+02
m	15	241.93	5.70E+03	278.99			5.70E+03	2.79E+02
	16	256.39	1.93E+03	365.05			1.93E+03	3.65E+02
	17	270.43	3.74E+03	344.09			3.74E+03	3.44E+02
	18	284.73	3.88E+02	232.50			3.88E+02	2.33E+02
M	19	295.16	1.10E+04	272.83			1.10E+04	2.73E+02
m	20	301.14	1.27E+03	356.69			1.27E+03	3.57E+02
	21	323.35	3.74E+02	206.40			3.74E+02	2.06E+02
	22	329.88	3.20E+02	170.83			3.20E+02	1.71E+02
	23	338.99	3.58E+02	222.10			3.58E+02	2.22E+02
	24	351.76	1.96E+04	379.40			1.96E+04	3.79E+02
	25	402.94	1.10E+03	237.88			1.10E+03	2.38E+02
	26	427.80	3.69E+02	184.11			3.69E+02	1.84E+02
	27	454.26	1.38E+02	144.90			1.38E+02	1.45E+02
	28	487.00	1.72E+02	123.71			1.72E+02	1.24E+02
	29	510.88	2.18E+02	130.30	4.72E+01	4.90E+00	1.71E+02	1.30E+02
	30	557.66	9.80E+01	106.28	2.10E+00	2.61E+00	9.59E+01	1.06E+02
	31	580.83	1.13E+02	122.39			1.13E+02	1.22E+02
	32	609.12	1.24E+04	265.52			1.24E+04	2.66E+02
	33	665.14	3.73E+02	127.18			3.73E+02	1.27E+02
	34	681.09	8.34E+01	99.05			8.34E+01	9.91E+01
	35	703.25	2.44E+02	148.13			2.44E+02	1.48E+02
	36	742.31	1.70E+02	103.85			1.70E+02	1.04E+02
	37	768.08	1.30E+03	145.40			1.30E+03	1.45E+02
	38	785.60	2.10E+02	97.15			2.10E+02	9.71E+01
	39	805.96	2.54E+02	105.48			2.54E+02	1.05E+02
	40	831.34	1.21E+02	100.01			1.21E+02	1.00E+02
	41	838.80	1.28E+02	88.93			1.28E+02	8.89E+01
	42	933.88	6.05E+02	117.63			6.05E+02	1.18E+02
	43	971.41	1.06E+02	88.50			1.06E+02	8.85E+01
	44	1068.09	1.22E+02	89.92			1.22E+02	8.99E+01
	45	1120.01	2.20E+03	133.45			2.20E+03	1.33E+02
	46	1154.72	3.67E+02	98.13			3.67E+02	9.81E+01
	47	1207.73	6.43E+01	68.87			6.43E+01	6.89E+01
	48	1237.75	8.62E+02	99.68			8.62E+02	9.97E+01
	49	1253.79	9.78E+01	72.77			9.78E+01	7.28E+01
	50	1280.54	2.01E+02	73.87			2.01E+02	7.39E+01
	51	1300.38	6.91E+01	73.27			6.91E+01	7.33E+01
	52	1316.10	6.31E+01	54.88			6.31E+01	5.49E+01
M	53	1377.29	5.89E+02	75.34			5.89E+02	7.53E+01
m	54	1384.78	1.12E+02	67.69			1.12E+02	6.77E+01
M	55	1400.66	1.66E+02	64.04			1.66E+02	6.40E+01
m	56	1407.58	3.34E+02	69.49			3.34E+02	6.95E+01
	57	1460.26	7.84E+01	65.00			7.84E+01	6.50E+01
	58	1508.55	2.55E+02	93.01			2.55E+02	9.30E+01
	59	1582.51	9.36E+01	52.23			9.36E+01	5.22E+01
	60	1660.84	1.62E+02	59.01			1.62E+02	5.90E+01
	61	1674.15	6.60E+01	44.14			6.60E+01	4.41E+01
	62	1692.25	6.29E+01	30.72			6.29E+01	3.07E+01
	63	1729.24	3.44E+02	59.39			3.44E+02	5.94E+01

Analysis Report for 1507047-04

FEEBRISID-3 028-029

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
64	1763.93	1.69E+03	96.70			1.69E+03	9.67E+01
65	1837.78	4.00E+01	30.53			4.00E+01	3.05E+01
66	1846.90	1.88E+02	43.14			1.88E+02	4.31E+01
67	1871.00	4.13E+01	38.65			4.13E+01	3.87E+01
68	2117.83	1.49E+02	29.52			1.49E+02	2.95E+01
69	2132.83	2.35E+01	24.00			2.35E+01	2.40E+01
70	2203.30	3.89E+02	43.91			3.89E+02	4.39E+01
71	2269.89	7.67E+00	9.41			7.67E+00	9.41E+00
72	2277.91	1.43E+01	9.64			1.43E+01	9.64E+00
73	2292.48	2.52E+01	15.36			2.52E+01	1.54E+01
74	2446.72	1.07E+02	21.36			1.07E+02	2.14E+01
75	2613.75	2.10E+01	11.49	5.52E-01	9.86E-01	2.04E+01	1.15E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 8:20:34AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	27.23	8.10E+02	339.64			8.10E+02	3.40E+02
m	2	31.82	3.07E+03	318.66			3.07E+03	3.19E+02
m	3	36.32	1.08E+03	381.41			1.08E+03	3.81E+02
	4	46.53	5.81E+03	537.20	2.93E+01	8.52E+00	5.78E+03	5.37E+02
M	5	67.58	1.70E+04	603.83			1.70E+04	6.04E+02
m	6	76.31	2.06E+04	634.06			2.06E+04	6.34E+02
m	7	83.27	8.81E+03	613.25			8.81E+03	6.13E+02
m	8	87.56	4.55E+03	502.92			4.55E+03	5.03E+02
	9	95.09	1.63E+03	388.93			1.63E+03	3.89E+02
	10	112.86	5.27E+02	324.99			5.27E+02	3.25E+02
	11	143.83	2.36E+03	389.77	1.23E+01	7.52E+00	2.35E+03	3.90E+02
	12	154.16	1.06E+03	347.37			1.06E+03	3.47E+02
	13	186.11	4.23E+03	382.21	2.05E+01	1.20E+01	4.21E+03	3.82E+02
M	14	235.92	2.44E+03	280.80			2.44E+03	2.81E+02
m	15	241.93	5.70E+03	278.99			5.70E+03	2.79E+02
	16	256.39	1.93E+03	365.05			1.93E+03	3.65E+02

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	17	270.43	3.74E+03	344.09			3.74E+03	3.44E+02
	18	284.73	3.88E+02	232.50			3.88E+02	2.33E+02
M	19	295.16	1.10E+04	272.83			1.10E+04	2.73E+02
m	20	301.14	1.27E+03	356.69			1.27E+03	3.57E+02
	21	323.35	3.74E+02	206.40			3.74E+02	2.06E+02
	22	329.88	3.20E+02	170.83			3.20E+02	1.71E+02
	23	338.99	3.58E+02	222.10			3.58E+02	2.22E+02
	24	351.76	1.96E+04	379.40			1.96E+04	3.79E+02
	25	402.94	1.10E+03	237.88			1.10E+03	2.38E+02
	26	427.80	3.69E+02	184.11			3.69E+02	1.84E+02
	27	454.26	1.38E+02	144.90			1.38E+02	1.45E+02
	28	487.00	1.72E+02	123.71			1.72E+02	1.24E+02
	29	510.88	2.18E+02	130.30	4.72E+01	4.90E+00	1.71E+02	1.30E+02
	30	557.66	9.80E+01	106.28	2.10E+00	2.61E+00	9.59E+01	1.06E+02
	31	580.83	1.13E+02	122.39			1.13E+02	1.22E+02
	32	609.12	1.24E+04	265.52			1.24E+04	2.66E+02
	33	665.14	3.73E+02	127.18			3.73E+02	1.27E+02
	34	681.09	8.34E+01	99.05			8.34E+01	9.91E+01
	35	703.25	2.44E+02	148.13			2.44E+02	1.48E+02
	36	742.31	1.70E+02	103.85			1.70E+02	1.04E+02
	37	768.08	1.30E+03	145.40			1.30E+03	1.45E+02
	38	785.60	2.10E+02	97.15			2.10E+02	9.71E+01
	39	805.96	2.54E+02	105.48			2.54E+02	1.05E+02
	40	831.34	1.21E+02	100.01			1.21E+02	1.00E+02
	41	838.80	1.28E+02	88.93			1.28E+02	8.89E+01
	42	933.88	6.05E+02	117.63			6.05E+02	1.18E+02
	43	971.41	1.06E+02	88.50			1.06E+02	8.85E+01
	44	1068.09	1.22E+02	89.92			1.22E+02	8.99E+01
	45	1120.01	2.20E+03	133.45			2.20E+03	1.33E+02
	46	1154.72	3.67E+02	98.13			3.67E+02	9.81E+01
	47	1207.73	6.43E+01	68.87			6.43E+01	6.89E+01
	48	1237.75	8.62E+02	99.68			8.62E+02	9.97E+01
	49	1253.79	9.78E+01	72.77			9.78E+01	7.28E+01
	50	1280.54	2.01E+02	73.87			2.01E+02	7.39E+01
	51	1300.38	6.91E+01	73.27			6.91E+01	7.33E+01
	52	1316.10	6.31E+01	54.88			6.31E+01	5.49E+01
M	53	1377.29	5.89E+02	75.34			5.89E+02	7.53E+01
m	54	1384.78	1.12E+02	67.69			1.12E+02	6.77E+01
M	55	1400.66	1.66E+02	64.04			1.66E+02	6.40E+01
m	56	1407.58	3.34E+02	69.49			3.34E+02	6.95E+01
	57	1460.26	7.84E+01	65.00			7.84E+01	6.50E+01
	58	1508.55	2.55E+02	93.01			2.55E+02	9.30E+01
	59	1582.51	9.36E+01	52.23			9.36E+01	5.22E+01
	60	1660.84	1.62E+02	59.01			1.62E+02	5.90E+01
	61	1674.15	6.60E+01	44.14			6.60E+01	4.41E+01
	62	1692.25	6.29E+01	30.72			6.29E+01	3.07E+01
	63	1729.24	3.44E+02	59.39			3.44E+02	5.94E+01
	64	1763.93	1.69E+03	96.70			1.69E+03	9.67E+01
	65	1837.78	4.00E+01	30.53			4.00E+01	3.05E+01
	66	1846.90	1.88E+02	43.14			1.88E+02	4.31E+01
	67	1871.00	4.13E+01	38.65			4.13E+01	3.87E+01
	68	2117.83	1.49E+02	29.52			1.49E+02	2.95E+01
	69	2132.83	2.35E+01	24.00			2.35E+01	2.40E+01
	70	2203.30	3.89E+02	43.91			3.89E+02	4.39E+01

Analysis Report for 1507047-04

FEEBRISID-3 028-029

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
71	2269.89	7.67E+00	9.41			7.67E+00	9.41E+00
72	2277.91	1.43E+01	9.64			1.43E+01	9.64E+00
73	2292.48	2.52E+01	15.36			2.52E+01	1.54E+01
74	2446.72	1.07E+02	21.36			1.07E+02	2.14E+01
75	2613.75	2.10E+01	11.49	5.52E-01	9.86E-01	2.04E+01	1.15E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.953	1460.81	*	10.67	1.16E+01	9.68E+00
NB-95M	0.734	235.69	*	25.00	5.88E+03	9.14E+02
CD-109	0.965	88.03	*	3.72	1.72E+02	2.59E+01
I-125	0.895	35.49	*	6.49	2.16E+01	7.73E+00
SN-126	1.000	87.57	*	37.00	1.66E+01	2.29E+00
PM-146	0.431	453.90	*	39.94	1.79E+00	1.89E+00
		735.90		14.01		
		747.13		13.10		
TM-171	0.888	66.72	*	0.14	1.47E+04	1.24E+03
TA-182	0.365	67.75	*	41.20	5.74E+01	4.87E+00
		1121.30		34.90		
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	1.000	46.50	*	4.25	1.37E+02	1.58E+01
BI-214	0.976	609.31	*	46.30	1.83E+02	2.00E+01
		1120.29	*	15.10	1.80E+02	1.86E+01
		1764.49	*	15.80	1.98E+02	2.07E+01
		2204.22	*	4.98	1.71E+02	2.50E+01
PB-214	0.997	295.21	*	19.19	1.95E+02	2.17E+01
		351.92	*	37.19	2.11E+02	2.53E+01
RA-223	0.958	323.87	*	3.88	3.57E+01	2.01E+01
RA-224	0.866	240.98	*	3.95	4.11E+02	4.76E+01
RA-226	0.998	186.21	*	3.28	2.93E+02	5.38E+02

Analysis Report for 1507047-04

FEEBRISID-3 028-029

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:20:34AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.23	2.24979E-01	20.97		
m	2	31.82	8.53305E-01	5.19		
m	6	76.31	5.71830E+00	1.54		
m	7	83.27	2.44795E+00	3.48	Sum	
	9	95.09	4.51910E-01	11.95		
	10	112.86	1.46377E-01	30.84		
	11	143.83	6.53367E-01	8.29	Tol.	U-235
	12	154.16	2.93900E-01	16.42	Sum	
	16	256.39	5.36126E-01	9.46	Tol.	TH-227
	17	270.43	1.04020E+00	4.59		
	18	284.73	1.07916E-01	29.92	Tol.	I-131
m	20	301.14	3.52615E-01	14.05	Tol.	GA-67
	22	329.88	8.89546E-02	26.67	Sum	
	23	338.99	9.94691E-02	31.01	Tol.	AC-228
	25	402.94	3.04876E-01	10.84		
	26	427.80	1.02624E-01	24.92	Sum	
	28	487.00	4.78685E-02	35.89	Tol.	LA-140
	29	510.88	4.75239E-02	38.11		
	30	557.66	2.66421E-02	55.42		
	31	580.83	3.12616E-02	54.38		
	33	665.14	1.03534E-01	17.06	Tol.	CE-143
	34	681.09	2.31692E-02	59.38		
	35	703.25	6.77675E-02	30.36	Sum	
	36	742.31	4.71163E-02	30.61	D-Esc	
	37	768.08	3.62351E-01	5.57		
	38	785.60	5.83979E-02	23.10		
	39	805.96	7.06165E-02	20.74	Sum	
	40	831.34	3.36157E-02	41.32	Tol.	PB-211
	41	838.80	3.55679E-02	34.73		
	42	933.88	1.68036E-01	9.72		
	43	971.41	2.94229E-02	41.78		
	44	1068.09	3.39100E-02	36.83		
	46	1154.72	1.02068E-01	13.35		
	47	1207.73	1.78578E-02	53.56	Sum	

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	48	1237.75	2.39544E-01	5.78	Tol.	CO-56
	49	1253.79	2.71633E-02	37.21	S-Esc	
	50	1280.54	5.59196E-02	18.35		
	51	1300.38	1.91810E-02	53.05		
	52	1316.10	1.75296E-02	43.48		
M	53	1377.29	1.63479E-01	6.40		
m	54	1384.78	3.12091E-02	30.12	Tol.	AG-110M
M	55	1400.66	4.61149E-02	19.29		
m	56	1407.58	9.27204E-02	10.41	Tol.	EU-152
	58	1508.55	7.09437E-02	18.21		
	59	1582.51	2.59968E-02	27.90		
	60	1660.84	4.50433E-02	18.19		
	61	1674.15	1.83204E-02	33.46		
	62	1692.25	1.74757E-02	24.42	S-Esc	
	63	1729.24	9.54790E-02	8.64	Sum	
	65	1837.78	1.11032E-02	38.19		
	66	1846.90	5.22541E-02	11.47		
	67	1871.00	1.14792E-02	46.77		
	68	2117.83	4.15202E-02	9.87		
	69	2132.83	6.52199E-03	51.11		
	71	2269.89	2.12963E-03	61.35	Sum	
	72	2277.91	3.97059E-03	33.73		
	73	2292.48	6.99346E-03	30.51		
	74	2446.72	2.96368E-02	10.01		
	75	2613.75	5.67987E-03	28.20	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.95	1460.81	*	10.67	1.16E+01	9.68E+00
NB-95M	0.73	235.69	*	25.00	5.88E+03	9.14E+02
CD-109	0.96	88.03	*	3.72	1.72E+02	2.59E+01

Analysis Report for 1507047-04

FEEBRISID-3 028-029

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
I-125	0.89	35.49	*	6.49	2.16E+01	7.73E+00
SN-126	1.00	87.57	*	37.00	1.66E+01	2.29E+00
PM-146	0.43	453.90	*	39.94	1.79E+00	1.89E+00
		735.90		14.01		
		747.13		13.10		
TM-171	0.88	66.72	*	0.14	1.47E+04	1.24E+03
TA-182	0.36	67.75	*	41.20	5.74E+01	4.87E+00
		1121.30		34.90		
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	1.00	46.50	*	4.25	1.37E+02	1.58E+01
BI-214	0.97	609.31	*	46.30	1.83E+02	2.00E+01
		1120.29	*	15.10	1.80E+02	1.86E+01
		1764.49	*	15.80	1.98E+02	2.07E+01
		2204.22	*	4.98	1.71E+02	2.50E+01
PB-214	0.99	295.21	*	19.19	1.95E+02	2.17E+01
		351.92	*	37.19	2.11E+02	2.53E+01
RA-223	0.95	323.87	*	3.88	3.57E+01	2.01E+01
RA-224	0.86	240.98	*	3.95	4.11E+02	4.76E+01
RA-226	0.99	186.21	*	3.28	2.93E+02	5.38E+02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.953	1.16E+01	9.68E+00	
	NB-95M	0.734	5.88E+03	9.14E+02	
?	CD-109	0.965	1.72E+02	2.59E+01	
	I-125	0.895	2.16E+01	7.73E+00	
?	SN-126	1.000	1.66E+01	2.29E+00	
	PM-146	0.431	1.79E+00	1.89E+00	

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
?	TM-171	0.888	1.47E+04	1.24E+03	
?	TA-182	0.365	5.74E+01	4.87E+00	
	PB-210	1.000	1.37E+02	1.58E+01	
	BI-214	0.976	1.84E+02	1.04E+01	
	PB-214	0.997	2.02E+02	1.64E+01	
	RA-223	0.958	3.57E+01	2.01E+01	
	RA-224	0.866	4.11E+02	4.76E+01	
	RA-226	0.998	2.93E+02	5.38E+02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-04

FEEBRISID-3 028-029

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:20:34AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.23	2.24979E-01	20.97		
m	2	31.82	8.53305E-01	5.19		
m	6	76.31	5.71830E+00	1.54		
m	7	83.27	2.44795E+00	3.48	Sum	
	9	95.09	4.51910E-01	11.95		
	10	112.86	1.46377E-01	30.84		
	11	143.83	6.53367E-01	8.29	Tol.	U-235
	12	154.16	2.93900E-01	16.42	Sum	
	16	256.39	5.36126E-01	9.46	Tol.	TH-227
	17	270.43	1.04020E+00	4.59		
	18	284.73	1.07916E-01	29.92	Tol.	I-131
m	20	301.14	3.52615E-01	14.05	Tol.	GA-67
	22	329.88	8.89546E-02	26.67	Sum	
	23	338.99	9.94691E-02	31.01	Tol.	AC-228
	25	402.94	3.04876E-01	10.84		
	26	427.80	1.02624E-01	24.92	Sum	
	28	487.00	4.78685E-02	35.89	Tol.	LA-140
	29	510.88	4.75239E-02	38.11		
	30	557.66	2.66421E-02	55.42		
	31	580.83	3.12616E-02	54.38		
	33	665.14	1.03534E-01	17.06	Tol.	CE-143
	34	681.09	2.31692E-02	59.38		
	35	703.25	6.77675E-02	30.36	Sum	
	36	742.31	4.71163E-02	30.61	D-Esc	
	37	768.08	3.62351E-01	5.57		
	38	785.60	5.83979E-02	23.10		
	39	805.96	7.06165E-02	20.74	Sum	
	40	831.34	3.36157E-02	41.32	Tol.	PB-211
	41	838.80	3.55679E-02	34.73		
	42	933.88	1.68036E-01	9.72		
	43	971.41	2.94229E-02	41.78		
	44	1068.09	3.39100E-02	36.83		
	46	1154.72	1.02068E-01	13.35		
	47	1207.73	1.78578E-02	53.56	Sum	
	48	1237.75	2.39544E-01	5.78	Tol.	CO-56

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	49	1253.79	2.71633E-02	37.21	S-Esc	
	50	1280.54	5.59196E-02	18.35		
	51	1300.38	1.91810E-02	53.05		
	52	1316.10	1.75296E-02	43.48		
M	53	1377.29	1.63479E-01	6.40		
m	54	1384.78	3.12091E-02	30.12	Tol.	AG-110M
M	55	1400.66	4.61149E-02	19.29		
m	56	1407.58	9.27204E-02	10.41	Tol.	EU-152
	58	1508.55	7.09437E-02	18.21		
	59	1582.51	2.59968E-02	27.90		
	60	1660.84	4.50433E-02	18.19		
	61	1674.15	1.83204E-02	33.46		
	62	1692.25	1.74757E-02	24.42	S-Esc	
	63	1729.24	9.54790E-02	8.64	Sum	
	65	1837.78	1.11032E-02	38.19		
	66	1846.90	5.22541E-02	11.47		
	67	1871.00	1.14792E-02	46.77		
	68	2117.83	4.15202E-02	9.87		
	69	2132.83	6.52199E-03	51.11		
	71	2269.89	2.12963E-03	61.35	Sum	
	72	2277.91	3.97059E-03	33.73		
	73	2292.48	6.99346E-03	30.51		
	74	2446.72	2.96368E-02	10.01		
	75	2613.75	5.67987E-03	28.20	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	3.35E-01	1.37E+01	1.37E+01
+	NA-22	1274.54	99.94	7.59E-02	1.23E+00	1.23E+00
+	NA-24	1368.53	99.99	-7.79E+12	8.43E+12	3.43E+13

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	NA-24	2754.09		99.86	-4.35E+11	8.43E+12	8.43E+12
+	AL-26	1808.65		99.76	1.34E-01	8.85E-01	8.85E-01
+	K-40	1460.81	*	10.67	1.16E+01	1.56E+01	1.56E+01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.58E+00	1.05E+00	1.05E+00
		78.34		96.00	1.56E+01		1.26E+00
+	SC-46	889.25		99.98	-4.46E-01	1.54E+00	1.54E+00
		1120.51		99.99	3.47E+01		3.76E+00
+	V-48	983.52		99.98	-5.50E-01	3.84E+00	4.03E+00
		1312.10		97.50	2.22E-01		3.84E+00
+	CR-51	320.08		9.83	-4.32E+00	2.05E+01	2.05E+01
+	MN-54	834.83		99.97	9.49E-01	1.41E+00	1.41E+00
+	CO-56	846.75		99.96	-2.27E-01	1.50E+00	1.50E+00
		1037.75		14.03	6.62E-01		1.09E+01
		1238.25		67.00	2.26E+01		4.20E+00
		1771.40		15.51	-5.19E-01		8.46E+00
		2598.48		16.90	-2.98E-01		2.44E+00
+	CO-57	122.06		85.51	3.06E-01	9.88E-01	9.88E-01
		136.48		10.60	-4.72E+00		8.80E+00
+	CO-58	810.76		99.40	-2.84E-01	1.57E+00	1.57E+00
+	FE-59	1099.22		56.50	1.15E+00	3.36E+00	3.36E+00
		1291.56		43.20	-7.88E-02		4.12E+00
+	CO-60	1173.22		100.00	-1.46E-01	1.25E+00	1.27E+00
		1332.49		100.00	-1.47E-01		1.25E+00
+	ZN-65	1115.52		50.75	5.13E-02	4.49E+00	4.49E+00
+	GA-67	93.31		35.70	-2.39E+03	8.94E+02	8.94E+02
		208.95		2.24	-1.59E+03		1.70E+04
		300.22		16.00	-5.18E+04		3.05E+03
+	SE-75	121.11		16.70	1.52E+00	1.71E+00	5.48E+00
		136.00		59.20	-1.28E+00		1.71E+00
		264.65		59.80	-2.19E+01		2.04E+00
		279.53		25.20	-1.82E+00		4.68E+00
		400.65		11.40	2.99E+01		1.28E+01
+	RB-82	776.52		13.00	7.21E-01	1.75E+01	1.75E+01
+	RB-83	520.41		46.00	-1.50E+00	2.57E+00	2.57E+00
		529.64		30.30	9.51E-01		4.09E+00
		552.65		16.40	-7.90E-01		7.47E+00
+	KR-85	513.99		0.43	-3.44E+00	2.39E+02	2.39E+02
+	SR-85	513.99		99.27	-2.02E-02	1.40E+00	1.40E+00
+	Y-88	898.02		93.40	1.20E+00	1.28E+00	1.66E+00
		1836.01		99.38	-6.10E-02		1.28E+00
+	NB-93M	16.57		9.43	5.21E+01	4.26E+00	4.26E+00
+	NB-94	702.63		100.00	1.24E+00	1.10E+00	1.10E+00
		871.10		100.00	-4.84E-01		1.19E+00
+	NB-95	765.79		99.81	1.56E+01	2.98E+00	2.98E+00
+	NB-95M	235.69	*	25.00	5.88E+03	1.99E+03	1.99E+03
+	ZR-95	724.18		43.70	1.18E+00	2.61E+00	3.30E+00

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	ZR-95	756.72		55.30	1.00E+00	2.61E+00	2.61E+00
+	MO-99	181.06		6.20	-5.28E+03	1.01E+04	1.88E+04
		739.58		12.80	-9.34E+02		1.01E+04
		778.00		4.50	1.13E+03		2.67E+04
+	RU-103	497.08		89.00	-4.00E-01	1.73E+00	1.73E+00
+	RU-106	621.84		9.80	-1.33E+00	9.99E+00	9.99E+00
+	AG-108M	433.93		89.90	-3.38E-01	1.16E+00	1.16E+00
		614.37		90.40	3.61E-03		2.06E+00
		722.95		90.50	1.12E+00		1.20E+00
+	CD-109	88.03	*	3.72	1.72E+02	9.32E+01	9.32E+01
+	AG-110M	657.75		93.14	-4.57E-02	1.10E+00	1.10E+00
		677.61		10.53	-8.35E-01		9.57E+00
		706.67		16.46	6.45E+00		7.29E+00
		763.93		21.98	2.49E+01		7.87E+00
		884.67		71.63	-9.30E-03		1.85E+00
		1384.27		23.94	-2.69E+01		6.47E+00
+	CD-113M	263.70		0.02	-6.39E+04	4.30E+03	4.30E+03
+	SN-113	255.12		1.93	2.27E+02	1.94E+00	6.74E+01
		391.69		64.90	3.36E-01		1.94E+00
+	TE123M	159.00		84.10	2.51E-01	1.38E+00	1.38E+00
+	SB-124	602.71		97.87	2.36E-01	1.58E+00	1.58E+00
		645.85		7.26	7.52E-01		1.82E+01
		722.78		11.10	1.76E+01		1.37E+01
		1691.02		49.00	-4.08E-01		2.85E+00
+	I-125	35.49	*	6.49	2.16E+01	2.00E+01	2.00E+01
+	SB-125	176.33		6.89	-8.18E+00	3.91E+00	1.40E+01
		427.89		29.33	5.39E+00		3.91E+00
		463.38		10.35	1.01E+00		9.72E+00
		600.56		17.80	2.32E+00		5.77E+00
		635.90		11.32	-2.23E-01		8.55E+00
+	SB-126	414.70		83.30	-3.15E+00	4.74E+00	6.31E+00
		666.33		99.60	9.97E+00		5.48E+00
		695.00		99.60	1.46E+00		4.74E+00
		720.50		53.80	8.46E+00		9.71E+00
+	SN-126	87.57	*	37.00	1.66E+01	8.99E+00	8.99E+00
+	SB-127	473.00		25.00	1.35E+02	4.15E+02	6.05E+02
		685.20		35.70	-9.96E+01		4.15E+02
		783.80		14.70	1.90E+03		1.30E+03
+	I-129	29.78		57.00	4.33E+00	8.78E-01	8.78E-01
		33.60		13.20	2.27E+01		3.90E+00
		39.58		7.52	-1.06E+02		6.44E+00
+	I-131	284.30		6.05	2.32E+02	1.33E+01	1.90E+02
		364.48		81.20	-1.60E+00		1.33E+01
		636.97		7.26	2.30E+01		1.46E+02
		722.89		1.80	8.79E+02		6.84E+02
+	TE-132	49.72		13.10	2.20E+02	4.28E+02	1.95E+03
		228.16		88.00	1.83E+01		4.28E+02
+	BA-133	81.00		33.00	1.22E+01	3.57E+00	3.57E+00
		302.84		17.80	-1.19E+02		6.08E+00

Analysis Report for 1507047-04

FEEBRISID-3 028-029

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		BA-133	356.01		60.00	1.76E-01	3.57E+00	4.15E+00
+		I-133	529.87		86.30	1.42E+09	6.10E+09	6.10E+09
+		XE-133	81.00		38.00	4.27E+02	1.25E+02	1.25E+02
+		CS-134	563.23		8.38	1.85E-01	1.32E+00	1.22E+01
			569.32		15.43	-4.79E-01		6.84E+00
			604.70		97.60	1.91E-02		2.67E+00
			795.84		85.40	1.67E-01		1.32E+00
			801.93		8.73	8.70E-01		1.48E+01
+		CS-135	268.24		16.00	6.28E+01	8.05E+00	8.05E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	1.65E+02	4.89E+00	5.88E+01
			163.89		4.61	-2.41E+01		8.96E+01
			176.55		13.56	-1.78E+01		3.06E+01
			273.65		12.66	2.45E+02		4.35E+01
			340.57		48.50	9.13E+00		9.53E+00
			818.50		99.70	-9.76E-02		4.89E+00
			1048.07		79.60	2.03E+00		6.84E+00
			1235.34		19.70	2.36E+02		4.76E+01
+		CS-137	661.65		85.12	1.25E+00	1.29E+00	1.29E+00
+		LA-138	788.74		34.00	-1.19E+00	1.94E+00	3.66E+00
			1435.80		66.00	-4.70E-02		1.94E+00
+		CE-139	165.85		80.35	-1.14E-01	1.35E+00	1.35E+00
+		BA-140	162.64		6.70	-2.67E+01	1.74E+01	6.44E+01
			304.84		4.50	-1.09E+01		1.06E+02
			423.70		3.20	3.30E+01		1.62E+02
			437.55		2.00	-1.13E+02		2.33E+02
			537.32		25.00	-1.13E+01		1.74E+01
+		LA-140	328.77		20.50	1.27E+01	6.08E+00	2.39E+01
			487.03		45.50	4.79E+00		1.02E+01
			815.85		23.50	-4.76E+00		2.14E+01
			1596.49		95.49	4.25E+00		6.08E+00
+		CE-141	145.44		48.40	-1.77E-01	3.82E+00	3.82E+00
+		CE-143	57.36		11.80	-1.09E+07	6.17E+06	7.51E+06
			293.26		42.00	1.12E+08		6.17E+06
			664.55		5.20	7.30E+07		2.98E+07
+		CE-144	133.54		10.80	-5.06E+00	8.38E+00	8.38E+00
+		PM-144	476.78		42.00	-2.97E-01	1.01E+00	2.48E+00
			618.01		98.60	1.57E-01		1.01E+00
			696.49		99.49	1.15E-01		1.05E+00
+		PM-145	36.85		21.70	-6.58E+00	1.20E+00	2.25E+00
			37.36		39.70	-1.00E+01		1.20E+00
			42.30		15.10	6.57E+00		3.80E+00
			72.40		2.31	-2.80E+02		4.78E+01
+		PM-146	453.90	*	39.94	1.79E+00	3.08E+00	3.08E+00
			735.90		14.01	6.03E-01		7.42E+00
			747.13		13.10	-7.23E-01		8.22E+00
+		ND-147	91.11		28.90	-2.03E+01	1.86E+01	1.86E+01

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	ND-147	531.02		13.10	1.07E+01	1.86E+01	4.42E+01
+	PM-149	285.90		3.10	1.36E+05	2.15E+05	2.15E+05
+	EU-152	121.78		20.50	1.19E+00	3.85E+00	3.85E+00
		244.69		5.40	-1.39E+00		2.54E+01
		344.27		19.13	-4.08E+02		5.42E+00
		778.89		9.20	4.80E-01		1.13E+01
		964.01		10.40	5.11E+00		1.24E+01
		1085.78		7.22	-7.96E+00		1.62E+01
		1112.02		9.60	3.22E+00		1.28E+01
		1407.95		14.94	2.30E+01		1.19E+01
+	GD-153	97.43		31.30	-3.09E-01	2.73E+00	2.73E+00
		103.18		22.20	-4.76E+00		3.48E+00
+	EU-154	123.07		40.50	1.04E+00	1.97E+00	1.97E+00
		723.30		19.70	5.19E+00		5.55E+00
		873.19		11.50	-2.95E+00		1.06E+01
		996.32		10.30	-3.46E+00		1.18E+01
		1004.76		17.90	-2.69E-01		6.88E+00
		1274.45		35.50	2.11E-01		3.40E+00
+	EU-155	86.50		30.90	2.68E+01	3.36E+00	3.36E+00
		105.30		20.70	-4.23E+00		3.44E+00
+	EU-156	811.77		10.40	-1.15E+01	3.86E+01	3.86E+01
		1153.47		7.20	1.93E+02		7.87E+01
		1230.71		8.90	-3.76E+00		4.65E+01
+	HO-166M	184.41		72.60	1.34E+01	1.64E+00	1.64E+00
		280.45		29.60	-1.32E+00		3.40E+00
		410.94		11.10	-5.38E+00		1.00E+01
		711.69		54.10	-2.61E-01		1.91E+00
+	TM-171	66.72	*	0.14	1.47E+04	2.14E+03	2.14E+03
+	HF-172	81.75		4.52	-1.52E+02	7.36E+00	2.52E+01
		125.81		11.30	2.91E+00		7.36E+00
+	LU-172	181.53		20.60	-2.32E+01	3.52E+01	9.54E+01
		810.06		16.63	-2.34E+01		1.29E+02
		912.12		15.25	8.79E+01		1.51E+02
		1093.66		62.50	1.25E+01		3.52E+01
+	LU-173	100.72		5.24	-8.25E+00	6.47E+00	1.44E+01
		272.11		21.20	5.81E+01		6.47E+00
+	HF-175	343.40		84.00	-5.32E+01	1.60E+00	1.60E+00
+	LU-176	88.34		13.30	-1.69E+01	1.07E+00	7.09E+00
		201.83		86.00	9.56E-01		1.18E+00
		306.78		94.00	-2.08E-01		1.07E+00
+	TA-182	67.75	*	41.20	5.74E+01	5.15E+00	8.38E+00
		1121.30		34.90	9.32E+01		1.01E+01
		1189.05		16.23	-2.36E+00		8.29E+00
		1221.41		26.98	3.21E-01		5.15E+00
		1231.02		11.44	-9.65E-01		1.20E+01
+	IR-192	308.46		29.68	-1.21E+00	2.63E+00	4.27E+00
		468.07		48.10	-7.61E-01		2.63E+00
+	HG-203	279.19		77.30	-7.63E-01	1.97E+00	1.97E+00
+	BI-207	569.67		97.72	-7.39E-02	1.05E+00	1.05E+00

Analysis Report for 1507047-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BI-207	1063.62		74.90	1.74E-01	1.05E+00	1.65E+00
+	TL-208	583.14		30.22	-6.42E-01	1.82E+00	3.51E+00
		860.37		4.48	2.14E+00		2.63E+01
		2614.66		35.85	6.90E-02		1.82E+00
+	BI-210M	262.00		45.00	-1.43E+01	2.22E+00	2.22E+00
		300.00		23.00	4.05E+01		7.02E+00
+	PB-210	46.50	*	4.25	1.37E+02	2.02E+01	2.02E+01
+	PB-211	404.84		2.90	1.62E+02	4.41E+01	4.43E+01
		831.96		2.90	-1.43E+01		4.41E+01
+	BI-212	727.17		11.80	-5.80E+00	8.65E+00	8.65E+00
		1620.62		2.75	1.72E+01		4.14E+01
+	PB-212	238.63		44.60	3.88E+01	3.30E+00	3.30E+00
		300.09		3.41	2.73E+02		4.74E+01
+	BI-214	609.31	*	46.30	1.83E+02	3.56E+00	3.56E+00
		1120.29	*	15.10	1.80E+02		1.30E+01
		1764.49	*	15.80	1.98E+02		1.01E+01
		2204.22	*	4.98	1.71E+02		1.52E+01
+	PB-214	295.21	*	19.19	1.95E+02	4.57E+00	1.09E+01
		351.92	*	37.19	2.11E+02		4.57E+00
+	RN-219	401.80		6.50	6.84E+01	1.94E+01	1.94E+01
+	RA-223	323.87	*	3.88	3.57E+01	3.21E+01	3.21E+01
+	RA-224	240.98	*	3.95	4.11E+02	5.92E+01	5.92E+01
+	RA-225	40.00		31.00	-9.57E+01	5.81E+00	5.81E+00
+	RA-226	186.21	*	3.28	2.93E+02	4.14E+01	4.14E+01
+	TH-227	50.10		8.40	8.92E-01	7.92E+00	7.92E+00
		236.00		11.50	-1.24E+02		1.02E+01
		256.20		6.30	8.12E+01		1.76E+01
+	AC-228	338.32		11.40	1.38E+01	4.59E+00	9.34E+00
		911.07		27.70	1.27E+00		4.59E+00
		969.11		16.60	-1.48E+00		7.39E+00
+	TH-230	48.44		16.90	2.98E+01	3.89E+00	3.89E+00
		62.85		4.60	-9.43E+01		1.79E+01
		67.67		0.37	9.12E+02		2.67E+02
+	PA-231	283.67		1.60	1.00E+02	4.68E+01	6.45E+01
		302.67		2.30	-9.13E+02		4.68E+01
+	TH-231	25.64		14.70	-1.27E+00	2.96E+00	2.96E+00
		84.21		6.40	-6.16E+01		1.67E+01
+	PA-233	311.98		38.60	1.00E+00	5.20E+00	5.20E+00
+	PA-234	131.20		20.40	3.39E-01	4.08E+00	4.08E+00
		733.99		8.80	8.89E-01		1.17E+01
		946.00		12.00	-2.87E+00		9.64E+00
+	PA-234M	1001.03		0.92	4.44E+00	1.33E+02	1.33E+02
+	TH-234	63.29		3.80	2.32E+02	2.39E+01	2.39E+01
+	U-235	143.76		10.50	4.21E+01	9.60E+00	9.60E+00
		163.35		4.70	-5.40E+00		2.00E+01
		205.31		4.70	9.14E+00		2.13E+01
+	NP-237	86.50		12.60	6.51E+01	8.15E+00	8.15E+00

Analysis Report for 1507047-04

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NP-239	106.10	22.70	-1.45E+04	1.18E+04	1.18E+04
		228.18	10.70	-1.68E+03		3.45E+04
		277.60	14.10	-1.04E+04		2.69E+04
+	AM-241	59.54	35.90	-2.17E+00	1.94E+00	1.94E+00
+	AM-243	74.67	66.00	7.19E+00	1.75E+00	1.75E+00
+	CM-243	209.75	3.29	-2.06E+00	7.16E+00	3.01E+01
		228.14	10.60	3.94E-01		9.22E+00
		277.60	14.00	-2.77E+00		7.16E+00

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.37E+01	1.37E+01	3.35E-01	6.74E+00
	NA-22	1274.54		99.94	1.23E+00	1.23E+00	7.59E-02	5.94E-01
	NA-24	1368.53		99.99	3.43E+13	8.43E+12	-7.79E+12	1.66E+13
		2754.09		99.86	8.43E+12		-4.35E+11	3.16E+12
	AL-26	1808.65		99.76	8.85E-01	8.85E-01	1.34E-01	4.17E-01
+	K-40	1460.81	*	10.67	1.56E+01	1.56E+01	1.16E+01	7.59E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	1.05E+00	1.05E+00	3.58E+00	5.23E-01
		78.34		96.00	1.26E+00		1.56E+01	6.29E-01
	SC-46	889.25		99.98	1.54E+00	1.54E+00	-4.46E-01	7.54E-01
		1120.51		99.99	3.76E+00		3.47E+01	1.86E+00
	V-48	983.52		99.98	4.03E+00	3.84E+00	-5.50E-01	1.97E+00
		1312.10		97.50	3.84E+00		2.22E-01	1.86E+00
	CR-51	320.08		9.83	2.05E+01	2.05E+01	-4.32E+00	1.02E+01
	MN-54	834.83		99.97	1.41E+00	1.41E+00	9.49E-01	6.91E-01

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CO-56	846.75		99.96	1.50E+00	1.50E+00	-2.27E-01	7.33E-01
		1037.75		14.03	1.09E+01		6.62E-01	5.31E+00
		1238.25		67.00	4.20E+00		2.26E+01	2.07E+00
		1771.40		15.51	8.46E+00		-5.19E-01	4.02E+00
		2598.48		16.90	2.44E+00		-2.98E-01	9.70E-01
	CO-57	122.06		85.51	9.88E-01	9.88E-01	3.06E-01	4.91E-01
		136.48		10.60	8.80E+00		-4.72E+00	4.37E+00
	CO-58	810.76		99.40	1.57E+00	1.57E+00	-2.84E-01	7.67E-01
	FE-59	1099.22		56.50	3.36E+00	3.36E+00	1.15E+00	1.64E+00
		1291.56		43.20	4.12E+00		-7.88E-02	1.99E+00
	CO-60	1173.22		100.00	1.27E+00	1.25E+00	-1.46E-01	6.16E-01
		1332.49		100.00	1.25E+00		-1.47E-01	6.03E-01
	ZN-65	1115.52		50.75	4.49E+00	4.49E+00	5.13E-02	2.21E+00
	GA-67	93.31		35.70	8.94E+02	8.94E+02	-2.39E+03	4.45E+02
		208.95		2.24	1.70E+04		-1.59E+03	8.45E+03
		300.22		16.00	3.05E+03		-5.18E+04	1.52E+03
	SE-75	121.11		16.70	5.48E+00	1.71E+00	1.52E+00	2.73E+00
		136.00		59.20	1.71E+00		-1.28E+00	8.51E-01
		264.65		59.80	2.04E+00		-2.19E+01	1.01E+00
		279.53		25.20	4.68E+00		-1.82E+00	2.32E+00
		400.65		11.40	1.28E+01		2.99E+01	6.32E+00
	RB-82	776.52		13.00	1.75E+01	1.75E+01	7.21E-01	8.54E+00
	RB-83	520.41		46.00	2.57E+00	2.57E+00	-1.50E+00	1.26E+00
		529.64		30.30	4.09E+00		9.51E-01	2.01E+00
		552.65		16.40	7.47E+00		-7.90E-01	3.67E+00
	KR-85	513.99		0.43	2.39E+02	2.39E+02	-3.44E+00	1.18E+02
	SR-85	513.99		99.27	1.40E+00	1.40E+00	-2.02E-02	6.91E-01
	Y-88	898.02		93.40	1.66E+00	1.28E+00	1.20E+00	8.14E-01
		1836.01		99.38	1.28E+00		-6.10E-02	6.06E-01
	NB-93M	16.57		9.43	4.26E+00	4.26E+00	5.21E+01	2.12E+00
	NB-94	702.63		100.00	1.10E+00	1.10E+00	1.24E+00	5.41E-01
		871.10		100.00	1.19E+00		-4.84E-01	5.80E-01
	NB-95	765.79		99.81	2.98E+00	2.98E+00	1.56E+01	1.47E+00
+	NB-95M	235.69	*	25.00	1.99E+03	1.99E+03	5.88E+03	9.93E+02
	ZR-95	724.18		43.70	3.30E+00	2.61E+00	1.18E+00	1.62E+00
		756.72		55.30	2.61E+00		1.00E+00	1.28E+00
	MO-99	181.06		6.20	1.88E+04	1.01E+04	-5.28E+03	9.36E+03
		739.58		12.80	1.01E+04		-9.34E+02	4.93E+03
		778.00		4.50	2.67E+04		1.13E+03	1.31E+04
	RU-103	497.08		89.00	1.73E+00	1.73E+00	-4.00E-01	8.52E-01
	RU-106	621.84		9.80	9.99E+00	9.99E+00	-1.33E+00	4.89E+00
	AG-108M	433.93		89.90	1.16E+00	1.16E+00	-3.38E-01	5.74E-01
		614.37		90.40	2.06E+00		3.61E-03	1.02E+00
		722.95		90.50	1.20E+00		1.12E+00	5.88E-01
+	CD-109	88.03	*	3.72	9.32E+01	9.32E+01	1.72E+02	4.66E+01
	AG-110M	657.75		93.14	1.10E+00	1.10E+00	-4.57E-02	5.36E-01
		677.61		10.53	9.57E+00		-8.35E-01	4.68E+00
		706.67		16.46	7.29E+00		6.45E+00	3.58E+00
		763.93		21.98	7.87E+00		2.49E+01	3.88E+00
		884.67		71.63	1.85E+00		-9.30E-03	9.07E-01
		1384.27		23.94	6.47E+00		-2.69E+01	3.14E+00
	CD-113M	263.70		0.02	4.30E+03	4.30E+03	-6.39E+04	2.13E+03
	SN-113	255.12		1.93	6.74E+01	1.94E+00	2.27E+02	3.35E+01

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SN-113	391.69		64.90	1.94E+00	1.94E+00	3.36E-01	9.60E-01
	TE123M	159.00		84.10	1.38E+00	1.38E+00	2.51E-01	6.85E-01
	SB-124	602.71		97.87	1.58E+00	1.58E+00	2.36E-01	7.75E-01
		645.85		7.26	1.82E+01		7.52E-01	8.91E+00
		722.78		11.10	1.37E+01		1.76E+01	6.71E+00
		1691.02		49.00	2.85E+00		-4.08E-01	1.36E+00
+	I-125	35.49	*	6.49	2.00E+01	2.00E+01	2.16E+01	9.96E+00
	SB-125	176.33		6.89	1.40E+01	3.91E+00	-8.18E+00	6.97E+00
		427.89		29.33	3.91E+00		5.39E+00	1.93E+00
		463.38		10.35	9.72E+00		1.01E+00	4.79E+00
		600.56		17.80	5.77E+00		2.32E+00	2.83E+00
		635.90		11.32	8.55E+00		-2.23E-01	4.19E+00
	SB-126	414.70		83.30	6.31E+00	4.74E+00	-3.15E+00	3.12E+00
		666.33		99.60	5.48E+00		9.97E+00	2.69E+00
		695.00		99.60	4.74E+00		1.46E+00	2.32E+00
		720.50		53.80	9.71E+00		8.46E+00	4.76E+00
+	SN-126	87.57	*	37.00	8.99E+00	8.99E+00	1.66E+01	4.49E+00
	SB-127	473.00		25.00	6.05E+02	4.15E+02	1.35E+02	2.98E+02
		685.20		35.70	4.15E+02		-9.96E+01	2.03E+02
		783.80		14.70	1.30E+03		1.90E+03	6.35E+02
	I-129	29.78		57.00	8.78E-01	8.78E-01	4.33E+00	4.37E-01
		33.60		13.20	3.90E+00		2.27E+01	1.94E+00
		39.58		7.52	6.44E+00		-1.06E+02	3.20E+00
	I-131	284.30		6.05	1.90E+02	1.33E+01	2.32E+02	9.39E+01
		364.48		81.20	1.33E+01		-1.60E+00	6.56E+00
		636.97		7.26	1.46E+02		2.30E+01	7.13E+01
		722.89		1.80	6.84E+02		8.79E+02	3.35E+02
	TE-132	49.72		13.10	1.95E+03	4.28E+02	2.20E+02	9.73E+02
		228.16		88.00	4.28E+02		1.83E+01	2.12E+02
	BA-133	81.00		33.00	3.57E+00	3.57E+00	1.22E+01	1.78E+00
		302.84		17.80	6.08E+00		-1.19E+02	3.02E+00
		356.01		60.00	4.15E+00		1.76E-01	2.07E+00
	I-133	529.87		86.30	6.10E+09	6.10E+09	1.42E+09	3.00E+09
	XE-133	81.00		38.00	1.25E+02	1.25E+02	4.27E+02	6.24E+01
	CS-134	563.23		8.38	1.22E+01	1.32E+00	1.85E-01	6.00E+00
		569.32		15.43	6.84E+00		-4.79E-01	3.36E+00
		604.70		97.60	2.67E+00		1.91E-02	1.32E+00
		795.84		85.40	1.32E+00		1.67E-01	6.44E-01
		801.93		8.73	1.48E+01		8.70E-01	7.24E+00
	CS-135	268.24		16.00	8.05E+00	8.05E+00	6.28E+01	4.00E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	5.88E+01	4.89E+00	1.65E+02	2.92E+01
		163.89		4.61	8.96E+01		-2.41E+01	4.45E+01
		176.55		13.56	3.06E+01		-1.78E+01	1.52E+01
		273.65		12.66	4.35E+01		2.45E+02	2.16E+01
		340.57		48.50	9.53E+00		9.13E+00	4.72E+00
		818.50		99.70	4.89E+00		-9.76E-02	2.39E+00
		1048.07		79.60	6.84E+00		2.03E+00	3.34E+00
		1235.34		19.70	4.76E+01		2.36E+02	2.34E+01
	CS-137	661.65		85.12	1.29E+00	1.29E+00	1.25E+00	6.34E-01
	LA-138	788.74		34.00	3.66E+00	1.94E+00	-1.19E+00	1.79E+00

Analysis Report for 1507047-04

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LA-138	1435.80		66.00	1.94E+00	1.94E+00	-4.70E-02	9.37E-01
	CE-139	165.85		80.35	1.35E+00	1.35E+00	-1.14E-01	6.70E-01
	BA-140	162.64		6.70	6.44E+01	1.74E+01	-2.67E+01	3.20E+01
		304.84		4.50	1.06E+02		-1.09E+01	5.25E+01
		423.70		3.20	1.62E+02		3.30E+01	7.99E+01
		437.55		2.00	2.33E+02		-1.13E+02	1.15E+02
		537.32		25.00	1.74E+01		-1.13E+01	8.57E+00
	LA-140	328.77		20.50	2.39E+01	6.08E+00	1.27E+01	1.19E+01
		487.03		45.50	1.02E+01		4.79E+00	5.03E+00
		815.85		23.50	2.14E+01		-4.76E+00	1.04E+01
		1596.49		95.49	6.08E+00		4.25E+00	2.93E+00
	CE-141	145.44		48.40	3.82E+00	3.82E+00	-1.77E-01	1.90E+00
	CE-143	57.36		11.80	7.51E+06	6.17E+06	-1.09E+07	3.74E+06
		293.26		42.00	6.17E+06		1.12E+08	3.07E+06
		664.55		5.20	2.98E+07		7.30E+07	1.46E+07
	CE-144	133.54		10.80	8.38E+00	8.38E+00	-5.06E+00	4.17E+00
	PM-144	476.78		42.00	2.48E+00	1.01E+00	-2.97E-01	1.22E+00
		618.01		98.60	1.01E+00		1.57E-01	4.93E-01
		696.49		99.49	1.05E+00		1.15E-01	5.12E-01
	PM-145	36.85		21.70	2.25E+00	1.20E+00	-6.58E+00	1.12E+00
		37.36		39.70	1.20E+00		-1.00E+01	5.96E-01
		42.30		15.10	3.80E+00		6.57E+00	1.89E+00
		72.40		2.31	4.78E+01		-2.80E+02	2.38E+01
+	PM-146	453.90	*	39.94	3.08E+00	3.08E+00	1.79E+00	1.52E+00
		735.90		14.01	7.42E+00		6.03E-01	3.63E+00
		747.13		13.10	8.22E+00		-7.23E-01	4.02E+00
	ND-147	91.11		28.90	1.86E+01	1.86E+01	-2.03E+01	9.25E+00
		531.02		13.10	4.42E+01		1.07E+01	2.17E+01
	PM-149	285.90		3.10	2.15E+05	2.15E+05	1.36E+05	1.07E+05
	EU-152	121.78		20.50	3.85E+00	3.85E+00	1.19E+00	1.91E+00
		244.69		5.40	2.54E+01		-1.39E+00	1.26E+01
		344.27		19.13	5.42E+00		-4.08E+02	2.68E+00
		778.89		9.20	1.13E+01		4.80E-01	5.54E+00
		964.01		10.40	1.24E+01		5.11E+00	6.04E+00
		1085.78		7.22	1.62E+01		-7.96E+00	7.85E+00
		1112.02		9.60	1.28E+01		3.22E+00	6.21E+00
		1407.95		14.94	1.19E+01		2.30E+01	5.82E+00
	GD-153	97.43		31.30	2.73E+00	2.73E+00	-3.09E-01	1.36E+00
		103.18		22.20	3.48E+00		-4.76E+00	1.73E+00
	EU-154	123.07		40.50	1.97E+00	1.97E+00	1.04E+00	9.79E-01
		723.30		19.70	5.55E+00		5.19E+00	2.72E+00
		873.19		11.50	1.06E+01		-2.95E+00	5.19E+00
		996.32		10.30	1.18E+01		-3.46E+00	5.76E+00
		1004.76		17.90	6.88E+00		-2.69E-01	3.35E+00
		1274.45		35.50	3.40E+00		2.11E-01	1.65E+00
	EU-155	86.50		30.90	3.36E+00	3.36E+00	2.68E+01	1.67E+00
		105.30		20.70	3.44E+00		-4.23E+00	1.71E+00
	EU-156	811.77		10.40	3.86E+01	3.86E+01	-1.15E+01	1.89E+01
		1153.47		7.20	7.87E+01		1.93E+02	3.85E+01
		1230.71		8.90	4.65E+01		-3.76E+00	2.25E+01
	HO-166M	184.41		72.60	1.64E+00	1.64E+00	1.34E+01	8.14E-01
		280.45		29.60	3.40E+00		-1.32E+00	1.69E+00
		410.94		11.10	1.00E+01		-5.38E+00	4.95E+00

Analysis Report for 1507047-04

FEEBRISID-3 028-029

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	711.69		54.10	1.91E+00	1.64E+00	-2.61E-01	9.34E-01
+	TM-171	66.72	*	0.14	2.14E+03	2.14E+03	1.47E+04	1.07E+03
	HF-172	81.75		4.52	2.52E+01	7.36E+00	-1.52E+02	1.26E+01
		125.81		11.30	7.36E+00		2.91E+00	3.66E+00
	LU-172	181.53		20.60	9.54E+01	3.52E+01	-2.32E+01	4.75E+01
		810.06		16.63	1.29E+02		-2.34E+01	6.30E+01
		912.12		15.25	1.51E+02		8.79E+01	7.40E+01
		1093.66		62.50	3.52E+01		1.25E+01	1.71E+01
	LU-173	100.72		5.24	1.44E+01	6.47E+00	-8.25E+00	7.17E+00
		272.11		21.20	6.47E+00		5.81E+01	3.21E+00
	HF-175	343.40		84.00	1.60E+00	1.60E+00	-5.32E+01	7.94E-01
	LU-176	88.34		13.30	7.09E+00	1.07E+00	-1.69E+01	3.53E+00
		201.83		86.00	1.18E+00		9.56E-01	5.86E-01
		306.78		94.00	1.07E+00		-2.08E-01	5.31E-01
+	TA-182	67.75	*	41.20	8.38E+00	5.15E+00	5.74E+01	4.19E+00
		1121.30		34.90	1.01E+01		9.32E+01	5.01E+00
		1189.05		16.23	8.29E+00		-2.36E+00	4.01E+00
		1221.41		26.98	5.15E+00		3.21E-01	2.49E+00
		1231.02		11.44	1.20E+01		-9.65E-01	5.79E+00
	IR-192	308.46		29.68	4.27E+00	2.63E+00	-1.21E+00	2.11E+00
		468.07		48.10	2.63E+00		-7.61E-01	1.30E+00
	HG-203	279.19		77.30	1.97E+00	1.97E+00	-7.63E-01	9.75E-01
	BI-207	569.67		97.72	1.05E+00	1.05E+00	-7.39E-02	5.18E-01
		1063.62		74.90	1.65E+00		1.74E-01	8.03E-01
	TL-208	583.14		30.22	3.51E+00	1.82E+00	-6.42E-01	1.73E+00
		860.37		4.48	2.63E+01		2.14E+00	1.29E+01
		2614.66		35.85	1.82E+00		6.90E-02	8.18E-01
	BI-210M	262.00		45.00	2.22E+00	2.22E+00	-1.43E+01	1.10E+00
		300.00		23.00	7.02E+00		4.05E+01	3.49E+00
+	PB-210	46.50	*	4.25	2.02E+01	2.02E+01	1.37E+02	1.01E+01
	PB-211	404.84		2.90	4.43E+01	4.41E+01	1.62E+02	2.19E+01
		831.96		2.90	4.41E+01		-1.43E+01	2.16E+01
	BI-212	727.17		11.80	8.65E+00	8.65E+00	-5.80E+00	4.23E+00
		1620.62		2.75	4.14E+01		1.72E+01	1.99E+01
	PB-212	238.63		44.60	3.30E+00	3.30E+00	3.88E+01	1.64E+00
		300.09		3.41	4.74E+01		2.73E+02	2.35E+01
+	BI-214	609.31	*	46.30	3.56E+00	3.56E+00	1.83E+02	1.76E+00
		1120.29	*	15.10	1.30E+01		1.80E+02	6.40E+00
		1764.49	*	15.80	1.01E+01		1.98E+02	4.89E+00
		2204.22	*	4.98	1.52E+01		1.71E+02	7.00E+00
+	PB-214	295.21	*	19.19	1.09E+01	4.57E+00	1.95E+02	5.41E+00
		351.92	*	37.19	4.57E+00		2.11E+02	2.27E+00
	RN-219	401.80		6.50	1.94E+01	1.94E+01	6.84E+01	9.63E+00
+	RA-223	323.87	*	3.88	3.21E+01	3.21E+01	3.57E+01	1.59E+01
+	RA-224	240.98	*	3.95	5.92E+01	5.92E+01	4.11E+02	2.95E+01
	RA-225	40.00		31.00	5.81E+00	5.81E+00	-9.57E+01	2.89E+00
+	RA-226	186.21	*	3.28	4.14E+01	4.14E+01	2.93E+02	2.06E+01
	TH-227	50.10		8.40	7.92E+00	7.92E+00	8.92E-01	3.94E+00
		236.00		11.50	1.02E+01		-1.24E+02	5.07E+00
		256.20		6.30	1.76E+01		8.12E+01	8.76E+00
	AC-228	338.32		11.40	9.34E+00	4.59E+00	1.38E+01	4.62E+00
		911.07		27.70	4.59E+00		1.27E+00	2.24E+00
		969.11		16.60	7.39E+00		-1.48E+00	3.61E+00

Analysis Report for 1507047-04

FEEBRISID-3 028-029

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-230	48.44	16.90	3.89E+00	3.89E+00	2.98E+01	1.94E+00
	62.85	4.60	1.79E+01		-9.43E+01	8.93E+00
	67.67	0.37	2.67E+02		9.12E+02	1.33E+02
PA-231	283.67	1.60	6.45E+01	4.68E+01	1.00E+02	3.20E+01
	302.67	2.30	4.68E+01		-9.13E+02	2.32E+01
TH-231	25.64	14.70	2.96E+00	2.96E+00	-1.27E+00	1.47E+00
	84.21	6.40	1.67E+01		-6.16E+01	8.32E+00
PA-233	311.98	38.60	5.20E+00	5.20E+00	1.00E+00	2.57E+00
PA-234	131.20	20.40	4.08E+00	4.08E+00	3.39E-01	2.03E+00
	733.99	8.80	1.17E+01		8.89E-01	5.70E+00
	946.00	12.00	9.64E+00		-2.87E+00	4.70E+00
PA-234M	1001.03	0.92	1.33E+02	1.33E+02	4.44E+00	6.49E+01
TH-234	63.29	3.80	2.39E+01	2.39E+01	2.32E+02	1.19E+01
U-235	143.76	10.50	9.60E+00	9.60E+00	4.21E+01	4.78E+00
	163.35	4.70	2.00E+01		-5.40E+00	9.97E+00
	205.31	4.70	2.13E+01		9.14E+00	1.06E+01
NP-237	86.50	12.60	8.15E+00	8.15E+00	6.51E+01	4.06E+00
NP-239	106.10	22.70	1.18E+04	1.18E+04	-1.45E+04	5.88E+03
	228.18	10.70	3.45E+04		-1.68E+03	1.71E+04
	277.60	14.10	2.69E+04		-1.04E+04	1.33E+04
AM-241	59.54	35.90	1.94E+00	1.94E+00	-2.17E+00	9.64E-01
AM-243	74.67	66.00	1.75E+00	1.75E+00	7.19E+00	8.70E-01
CM-243	209.75	3.29	3.01E+01	7.16E+00	-2.06E+00	1.49E+01
	228.14	10.60	9.22E+00		3.94E-01	4.58E+00
	277.60	14.00	7.16E+00		-2.77E+00	3.55E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-04

FEEBRISID-3 028-029

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-3 028-029

Elapsed Live time: 3600
Elapsed Real Time: 3620

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	4	740	2349
17:	2245	1836	1314	1164	1124	1138	1113	1139
25:	1255	1383	1418	1219	1331	1848	2292	1966
33:	1429	1248	1426	1507	1256	1161	1136	1146
41:	1232	1365	1406	1838	3053	3329	2186	1655
49:	1921	1754	1563	1677	1777	1694	1651	1670
57:	1733	1919	1969	2016	2162	2408	2454	2505
65:	3186	5552	6904	4653	2669	2218	2341	2790
73:	4094	5498	6159	7164	5986	3737	3061	3357
81:	3255	3667	4382	3422	2705	3058	3287	2500
89:	2090	1905	1615	1651	2022	2130	1807	1457
97:	1472	1318	1248	1186	1175	1157	1147	1088
105:	1065	1086	1079	1114	1066	1181	1163	1233
113:	1202	1149	1096	1055	1080	1090	1125	1104
121:	1204	1229	1156	1090	1155	1108	1136	1169
129:	1117	1199	1138	1112	1175	1201	1154	1153
137:	1162	1242	1215	1233	1308	1702	2257	1845
145:	1384	1200	1172	1243	1253	1229	1178	1383
153:	1638	1639	1280	1189	1206	1168	1124	1150
161:	1090	1084	1028	1038	1018	1026	1014	1019
169:	993	967	921	975	912	991	940	947
177:	920	955	997	946	989	1000	1008	1545
185:	2396	2303	1438	961	891	890	871	886
193:	969	931	884	875	903	872	942	875
201:	899	882	838	839	822	814	774	786
209:	829	783	764	696	745	755	700	729
217:	673	702	688	689	715	679	698	657
225:	704	604	616	650	664	672	643	652
233:	746	1002	1398	1249	816	732	845	1550
241:	2603	2327	1094	562	558	537	540	520
249:	540	564	516	576	688	759	898	847
257:	687	637	614	561	509	481	454	485
265:	443	501	616	1085	1397	1413	1072	752
273:	510	552	531	470	463	440	472	465
281:	480	521	513	538	534	510	451	400
289:	461	437	421	566	1851	4175	4251	1897
297:	670	497	540	597	511	487	514	436
305:	406	348	351	382	376	396	358	373
313:	427	363	343	362	363	313	316	372
321:	342	457	506	461	392	366	346	426
329:	514	473	353	378	371	365	355	381
337:	453	436	385	366	340	356	320	316
345:	302	331	355	441	1264	4200	7476	5872
353:	1923	443	285	285	271	298	277	276
361:	293	249	287	291	259	257	284	243

369:	257	273	274	284	282	266	247	250

Sample Title: FEEBRISID-3 028-029

Channel								
377:	281	235	248	269	246	301	260	296
385:	306	312	321	325	329	274	271	258
393:	312	253	253	264	251	291	302	388
401:	495	477	392	503	393	334	274	296
409:	298	261	283	283	287	266	288	286
417:	254	269	321	263	278	246	243	248
425:	296	327	308	280	241	259	242	230
433:	209	207	221	231	209	218	202	231
441:	190	226	180	221	200	190	197	168
449:	166	185	184	182	203	216	202	183
457:	181	174	174	195	183	193	183	174
465:	197	159	143	176	160	183	157	181
473:	159	174	170	151	126	168	189	193
481:	194	163	163	168	164	221	213	169
489:	147	137	148	137	131	151	156	139
497:	146	122	139	126	154	145	162	137
505:	131	151	141	134	186	198	197	157
513:	154	137	132	147	119	129	119	130
521:	116	143	119	141	143	138	135	140
529:	127	136	125	141	151	131	133	132
537:	123	100	119	103	125	141	123	146
545:	129	128	125	134	128	134	119	117
553:	102	107	116	148	133	143	109	134
561:	122	122	127	127	130	127	110	141
569:	129	104	147	132	133	132	139	127
577:	139	118	159	163	126	138	137	117
585:	115	113	106	109	121	120	99	126
593:	109	110	111	132	106	121	119	119
601:	93	98	100	107	133	329	1501	3868
609:	4522	2177	473	102	102	89	101	81
617:	98	91	88	89	92	85	72	104
625:	66	92	77	96	87	90	90	96
633:	89	96	81	76	80	91	86	81
641:	101	73	66	82	70	88	101	100
649:	92	80	88	86	78	81	87	71
657:	83	74	80	82	89	85	101	172
665:	209	156	88	78	76	73	70	93
673:	92	74	60	79	95	63	74	61
681:	67	81	97	84	58	74	83	62
689:	83	74	87	94	87	68	70	64
697:	72	85	83	83	90	130	114	113
705:	98	77	81	106	79	76	84	83
713:	79	80	74	73	77	94	101	97
721:	97	92	88	93	75	84	71	67
729:	71	72	73	76	71	93	75	69
737:	80	79	74	88	111	107	117	87
745:	73	74	66	76	78	66	83	85
753:	71	68	80	73	86	77	89	74
761:	61	73	77	87	126	234	373	469
769:	286	105	75	80	83	57	61	73
777:	76	79	72	79	67	63	75	133
785:	142	150	96	66	77	76	69	74
793:	71	77	76	74	78	72	80	77

801:	71	70	76	115	158	152	107	84

Sample Title: FEEBRISID-3 028-029

Channel								
809:	71	71	70	71	67	62	70	64
817:	83	79	77	81	77	63	68	74
825:	87	87	74	100	76	96	146	107
833:	94	70	82	70	107	123	99	93
841:	87	84	72	74	85	71	74	71
849:	76	70	64	63	76	65	78	59
857:	73	64	83	90	66	74	80	78
865:	66	76	77	70	57	69	87	78
873:	73	72	75	91	82	76	87	91
881:	61	75	75	78	74	73	87	72
889:	84	70	62	81	69	80	78	84
897:	90	83	85	81	82	78	73	76
905:	70	84	73	72	78	93	68	89
913:	65	84	71	75	75	61	56	68
921:	86	65	63	60	71	61	66	57
929:	77	53	88	131	222	280	142	74
937:	68	67	58	57	58	55	58	57
945:	65	56	62	63	58	57	58	76
953:	66	72	55	71	69	50	70	64
961:	63	72	91	92	55	64	47	81
969:	69	65	68	61	60	62	70	50
977:	51	66	58	55	57	65	59	55
985:	57	68	52	65	72	54	53	59
993:	58	49	64	64	50	72	58	51
1001:	65	67	59	60	51	61	59	56
1009:	65	51	60	56	60	69	70	53
1017:	57	58	53	46	48	55	64	54
1025:	58	56	53	61	56	52	53	50
1033:	51	53	54	56	60	48	56	43
1041:	52	46	59	51	52	49	51	48
1049:	43	59	88	65	68	41	50	53
1057:	48	48	43	59	64	47	41	59
1065:	53	55	60	68	78	78	47	48
1073:	43	53	47	59	44	49	53	50
1081:	47	37	53	50	53	29	50	42
1089:	51	44	56	61	37	48	48	49
1097:	47	61	47	38	46	51	61	42
1105:	45	44	51	57	41	57	50	42
1113:	51	46	47	41	79	296	655	819
1121:	471	169	59	43	35	56	38	43
1129:	50	53	49	53	60	59	46	51
1137:	51	36	43	40	37	33	44	54
1145:	48	43	46	38	47	53	42	55
1153:	93	121	136	89	46	53	39	32
1161:	32	47	39	46	41	46	38	39
1169:	48	35	42	47	42	36	61	44
1177:	57	48	46	63	45	52	45	38
1185:	37	38	39	30	36	41	33	28
1193:	45	36	32	35	33	39	42	36
1201:	38	47	39	47	44	40	54	64
1209:	40	44	34	34	41	42	34	45
1217:	33	33	26	43	41	32	43	35
1225:	46	34	35	29	41	29	27	36

1233:	23	33	64	140	290	314	196	56

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Channel								
1241:	48	35	34	38	41	31	30	32
1249:	35	33	38	43	55	36	45	34
1257:	39	34	23	43	32	33	39	33
1265:	36	33	31	38	33	30	38	36
1273:	32	42	37	31	41	35	71	95
1281:	98	52	42	35	33	32	25	43
1289:	44	33	24	32	37	24	27	35
1297:	36	24	33	30	37	39	38	33
1305:	29	27	28	36	21	32	24	17
1313:	35	28	35	32	43	31	37	19
1321:	34	34	29	25	27	35	39	39
1329:	37	32	29	38	34	34	27	43
1337:	31	33	49	32	33	32	24	32
1345:	24	33	27	31	34	31	31	33
1353:	46	30	42	29	37	26	32	38
1361:	31	24	36	27	36	24	28	20
1369:	19	33	31	27	31	28	74	145
1377:	213	175	94	44	38	37	33	62
1385:	61	57	38	28	35	26	30	24
1393:	35	33	36	37	28	38	49	82
1401:	63	62	44	30	37	87	127	132
1409:	73	55	30	26	26	37	29	26
1417:	35	28	31	27	39	18	30	39
1425:	47	40	31	35	39	29	29	31
1433:	25	41	36	40	24	32	31	34
1441:	31	34	35	34	41	33	26	30
1449:	41	38	39	28	36	37	35	36
1457:	28	40	52	60	52	48	30	32
1465:	31	33	33	45	36	26	32	25
1473:	33	39	35	40	42	30	41	32
1481:	33	24	36	35	32	30	36	36
1489:	37	38	38	31	38	47	35	37
1497:	26	34	34	29	34	30	34	44
1505:	32	48	51	117	114	62	64	38
1513:	42	29	45	38	42	38	41	38
1521:	35	31	28	34	33	24	47	36
1529:	31	31	29	36	34	37	36	32
1537:	47	51	54	43	34	36	48	36
1545:	27	28	31	36	21	27	23	23
1553:	27	26	34	19	30	19	21	25
1561:	20	21	25	17	20	23	20	25
1569:	23	16	25	26	26	14	32	26
1577:	26	15	19	22	32	43	56	42
1585:	20	24	19	27	31	25	20	23
1593:	30	19	35	29	18	29	34	34
1601:	13	20	24	15	26	21	23	21
1609:	20	16	28	19	20	22	21	15
1617:	21	12	20	16	20	22	29	24
1625:	22	15	18	15	23	15	16	16
1633:	18	20	17	9	16	25	9	21
1641:	16	14	12	17	13	10	18	7
1649:	13	16	10	18	12	13	18	8
1657:	14	24	20	43	54	42	15	9

1665:	16	15	9	8	7	15	10	18

Sample Title: FEEBRISID-3 028-029

Channel								
1673:	20	18	13	16	17	14	15	9
1681:	11	13	18	23	16	10	11	10
1689:	6	15	21	21	21	19	11	6
1697:	7	14	13	13	15	16	13	11
1705:	14	10	8	8	10	14	8	12
1713:	12	8	15	10	8	9	7	7
1721:	5	12	13	7	10	15	34	71
1729:	110	113	48	14	9	12	18	9
1737:	10	11	6	8	11	6	5	12
1745:	7	11	6	9	11	12	13	5
1753:	7	12	10	6	15	7	11	17
1761:	44	138	367	513	409	193	43	16
1769:	8	9	10	8	5	7	6	10
1777:	6	4	8	7	6	9	11	5
1785:	12	2	3	6	8	7	11	10
1793:	6	10	12	6	8	10	8	9
1801:	7	5	8	8	10	4	10	9
1809:	6	4	6	15	8	10	13	6
1817:	6	6	6	7	14	11	4	8
1825:	10	7	11	8	5	2	8	5
1833:	8	11	3	16	15	22	16	17
1841:	7	9	9	12	24	48	53	55
1849:	27	9	10	5	6	5	10	5
1857:	7	8	6	5	9	6	11	3
1865:	8	3	11	7	14	5	18	11
1873:	13	10	9	9	6	4	9	12
1881:	4	5	6	3	8	6	8	14
1889:	7	9	6	7	6	10	14	8
1897:	6	15	6	9	4	8	5	6
1905:	6	10	7	11	4	8	3	7
1913:	7	8	7	6	12	5	6	9
1921:	9	5	4	8	9	6	4	5
1929:	9	10	5	6	7	10	9	12
1937:	9	11	5	7	10	10	7	9
1945:	11	7	7	11	9	11	12	10
1953:	9	11	10	9	7	9	5	7
1961:	10	12	7	7	9	10	6	8
1969:	6	6	9	7	10	5	5	6
1977:	5	6	5	5	5	6	11	5
1985:	6	3	9	5	5	2	3	10
1993:	3	3	6	5	8	6	3	10
2001:	6	11	7	8	7	7	5	8
2009:	1	8	7	10	10	4	2	3
2017:	5	5	8	6	6	10	8	5
2025:	4	5	2	6	6	4	4	11
2033:	9	7	1	4	4	6	1	7
2041:	2	2	2	7	4	6	3	4
2049:	7	8	5	6	6	11	1	4
2057:	3	3	6	2	5	8	3	2
2065:	2	1	5	7	4	4	3	6
2073:	0	5	3	3	6	2	5	4
2081:	4	8	3	4	5	1	10	5
2089:	3	6	2	4	3	6	2	4

2097:	5	2	5	1	1	3	2	6

Sample Title: FEEBRISID-3 028-029

Channel								
2105:	6	2	1	4	7	4	2	2
2113:	4	5	4	14	29	41	34	19
2121:	5	3	5	0	1	1	1	2
2129:	4	8	3	4	1	3	3	5
2137:	4	1	5	3	0	4	1	1
2145:	5	3	1	4	2	3	1	2
2153:	4	2	4	4	2	1	5	3
2161:	1	1	1	7	3	3	1	4
2169:	5	4	4	5	2	4	4	3
2177:	3	7	4	1	4	2	4	5
2185:	1	0	1	4	4	4	3	1
2193:	7	1	5	1	6	1	3	7
2201:	20	58	85	116	88	27	9	0
2209:	2	4	1	5	2	3	5	2
2217:	5	3	0	2	3	3	2	5
2225:	3	1	3	2	4	3	1	2
2233:	2	3	0	3	2	4	2	1
2241:	2	0	0	0	0	2	3	0
2249:	2	2	2	0	2	1	6	1
2257:	2	0	1	1	0	2	0	1
2265:	1	1	1	1	0	4	2	2
2273:	0	0	4	1	1	0	2	5
2281:	3	1	0	1	1	2	3	1
2289:	3	2	6	5	3	10	2	2
2297:	0	0	1	0	0	3	0	1
2305:	2	1	0	0	0	0	0	0
2313:	0	1	0	1	1	1	1	2
2321:	2	0	2	0	0	2	2	0
2329:	0	3	3	0	1	1	1	2
2337:	1	0	0	1	1	1	1	1
2345:	0	0	1	0	2	0	2	1
2353:	1	1	1	1	2	0	2	0
2361:	3	1	0	0	0	1	0	0
2369:	1	1	0	2	0	1	1	0
2377:	1	4	0	0	1	2	0	1
2385:	0	0	0	1	1	0	1	1
2393:	0	2	0	0	1	0	3	2
2401:	0	0	0	1	2	2	0	1
2409:	2	1	0	0	0	1	0	0
2417:	0	1	1	2	0	1	1	0
2425:	0	1	1	0	1	2	1	3
2433:	1	2	1	1	1	1	1	1
2441:	2	0	0	3	3	20	31	32
2449:	15	5	0	1	1	1	0	0
2457:	2	0	0	0	1	0	0	0
2465:	1	0	0	1	0	1	0	0
2473:	2	2	0	2	1	0	0	0
2481:	2	2	1	3	0	1	0	0
2489:	0	0	0	0	1	1	0	2
2497:	2	0	1	0	0	0	2	0
2505:	1	1	1	1	1	0	0	1
2513:	0	3	0	0	0	0	0	0
2521:	0	0	0	1	0	1	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-3 028-029

Channel								
2537:	0	0	1	0	0	1	0	0
2545:	0	0	0	0	0	0	1	0
2553:	0	1	0	1	1	0	0	0
2561:	1	0	0	0	0	1	0	0
2569:	0	1	1	0	0	1	0	0
2577:	0	0	1	0	0	0	0	0
2585:	1	2	0	1	0	0	1	0
2593:	0	0	0	0	1	0	1	0
2601:	1	1	0	1	2	1	0	0
2609:	1	0	1	1	3	6	10	4
2617:	0	1	0	0	0	0	0	1
2625:	0	0	0	0	0	1	0	0
2633:	1	0	0	1	0	0	0	1
2641:	0	0	0	0	0	0	0	1
2649:	0	0	0	0	0	0	1	0
2657:	0	0	0	0	1	0	0	0
2665:	0	0	1	0	0	0	0	0
2673:	1	0	0	0	0	0	0	0
2681:	0	0	0	1	1	0	0	1
2689:	0	2	0	0	0	2	0	0
2697:	1	0	1	0	0	0	0	1
2705:	1	0	0	1	0	2	1	0
2713:	0	0	1	0	0	0	0	0
2721:	1	0	3	0	0	1	0	1
2729:	0	0	0	0	0	1	0	0
2737:	0	0	1	0	0	1	1	0
2745:	0	0	0	1	1	0	0	1
2753:	0	0	0	0	2	0	0	0
2761:	0	0	0	1	0	0	0	0
2769:	1	2	0	2	0	0	0	0
2777:	1	0	0	0	0	0	0	0
2785:	1	0	0	0	0	1	0	1
2793:	0	0	0	1	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	1	0	0	0	0	1	0
2817:	0	0	0	0	0	0	1	1
2825:	0	0	1	0	0	0	0	0
2833:	0	0	1	0	0	0	0	1
2841:	0	0	0	1	0	1	0	0
2849:	0	0	1	0	0	0	0	2
2857:	0	0	0	1	0	1	0	0
2865:	0	0	0	0	1	0	0	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	1	1	0	0	0	1
2889:	0	1	1	0	0	0	0	1
2897:	0	0	0	0	0	0	2	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	1	1	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	1	0	0
2937:	0	0	0	1	0	0	0	0
2945:	0	0	1	0	0	0	1	0
2953:	0	0	0	0	0	2	0	1

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-3 028-029

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	1	0	0	1	1	0	0	0
2985:	1	0	0	0	0	2	1	0
2993:	0	0	0	1	0	0	1	0
3001:	0	0	0	0	0	0	0	0
3009:	0	3	0	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	1	1	0	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	2	1	0	0	0
3049:	0	0	0	0	0	1	0	0
3057:	0	1	0	0	0	0	0	0
3065:	1	0	1	0	0	0	1	0
3073:	0	1	0	0	0	0	0	0
3081:	1	0	2	0	0	0	1	0
3089:	0	0	0	0	1	0	0	0
3097:	1	0	1	0	0	0	1	0
3105:	0	0	0	0	0	1	0	0
3113:	0	0	0	0	0	1	0	0
3121:	1	0	1	0	0	1	1	0
3129:	0	0	1	0	0	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	0	0	0	0
3153:	0	1	0	0	0	0	0	0
3161:	0	0	0	0	0	1	1	0
3169:	0	0	0	1	1	1	0	0
3177:	0	0	0	0	0	1	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	2	0	0	1	0
3201:	0	0	0	0	0	0	0	0
3209:	0	1	0	0	0	1	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	1	0	0
3233:	0	1	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	1	0	0	0	0	0	0	0
3257:	1	1	0	0	0	0	0	0
3265:	1	0	0	0	0	0	0	0
3273:	0	0	1	0	1	1	0	0
3281:	0	0	0	1	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	1	0	0	0	0	0	0	0
3305:	0	0	0	0	1	2	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	1	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	2	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	1	0	0	0	0
3369:	1	0	0	2	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	0

3393:	1	0	0	0	0	0	0	0

Sample Title: FEEBRISID-3 028-029

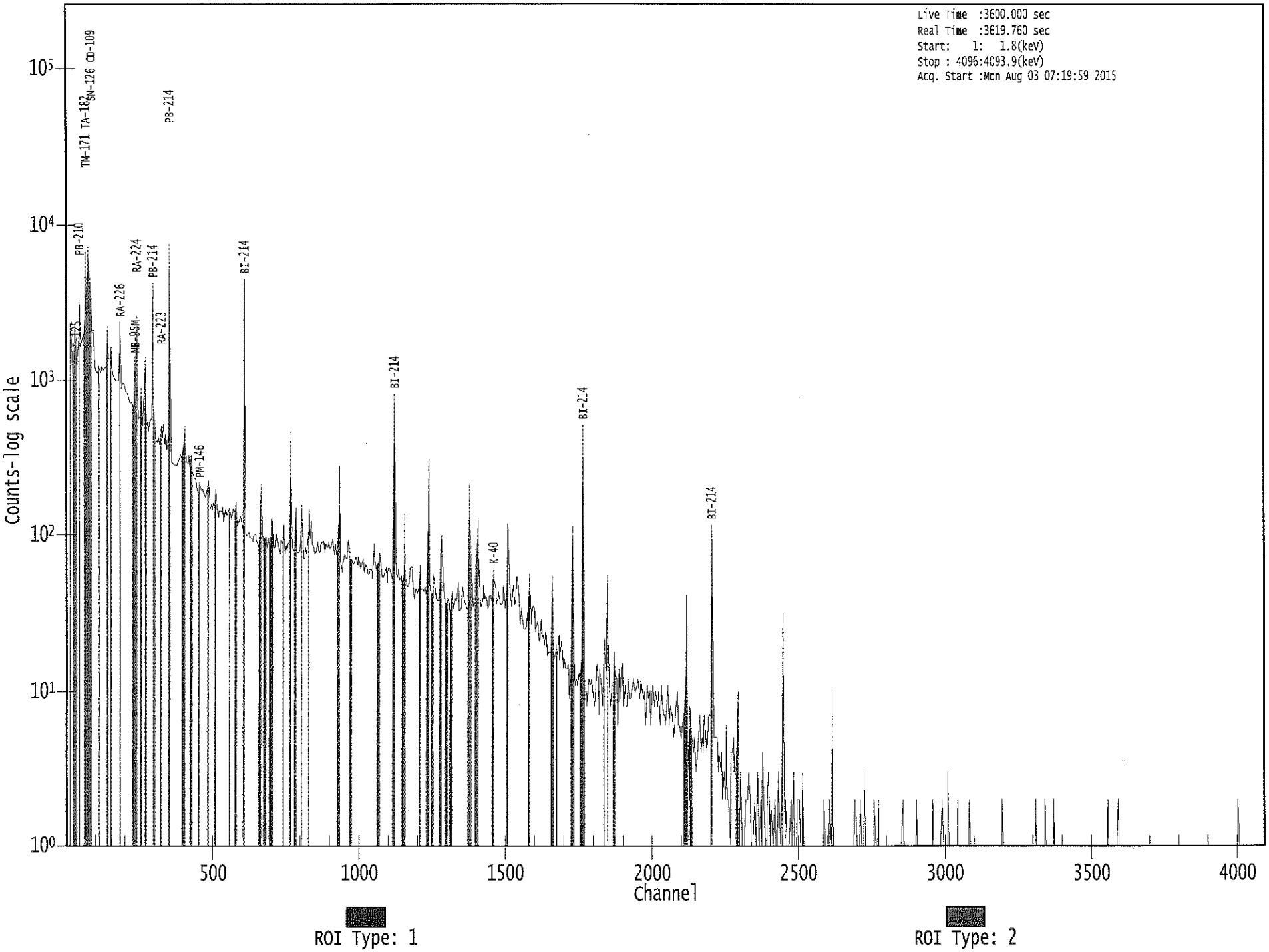
Channel							
3401:	0	0	0	0	1	0	0	0
3409:	0	0	0	0	0	1	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	1	0	1
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	1
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	1	0	0	0	0	0
3489:	1	0	0	0	0	1	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	1	0	0
3537:	0	0	1	0	0	1	0	0
3545:	0	0	0	1	0	0	0	0
3553:	0	1	0	2	0	0	0	0
3561:	0	0	0	0	1	0	0	1
3569:	0	0	0	0	1	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	1	0	0	0	0	0	2
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	1	0	0	0
3609:	0	1	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	1	0
3657:	0	0	0	0	0	0	0	0
3665:	0	1	1	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	1	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	1	0	0	0	1	0	1
3713:	0	0	0	1	1	0	0	0
3721:	0	0	0	0	0	1	0	0
3729:	0	0	0	0	0	0	0	1
3737:	0	1	0	0	0	1	0	0
3745:	0	0	0	0	0	1	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	1	0
3769:	0	0	0	0	0	0	0	1
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	1	0	1	0
3793:	0	0	0	1	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	1	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-3 028-029

Channel							
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	1	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	1	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	1	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	1	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	1	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	1	0	0	0	0	0	0	0
3969:	1	0	0	0	0	0	0	0
3977:	0	0	1	0	0	0	1	0
3985:	0	1	0	0	0	0	1	0
3993:	0	0	0	0	0	0	0	0
4001:	0	2	0	0	0	0	1	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	1	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	1	0	1	0	0	0
4049:	0	0	0	0	0	0	1	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	1	0	0	0	0	0	1
4089:	0	0	0	0	0	0	0	0

0000025457.CNF



Apex-Gamma

Analysis Report for 1507047-05
FEEBRISID-3 041-043

8/3

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-05
Sample Description	: FEEBRISID-3 041-043
Sample Type	: SOIL
Sample Size	: 2.679E+02 grams
Facility	: Countroom
Sample Taken On	: 7/6/2015 7:51:47AM
Acquisition Started	: 8/3/2015 6:15:12AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 18 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25449

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

: 00458

Analysis Report for 1507047-05

FEEBRISID-3 041-043

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 7:15:16AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.43	46.79	0.0000	0.00
2	74.79	75.13	0.0000	0.00
3	77.56	77.90	0.0000	0.00
4	87.80	88.13	0.0000	0.00
5	153.65	153.96	0.0000	0.00
6	185.87	186.17	0.0000	0.00
7	238.66	238.95	0.0000	0.00
8	241.74	242.03	0.0000	0.00
9	271.39	271.67	0.0000	0.00
10	295.40	295.67	0.0000	0.00
11	300.40	300.67	0.0000	0.00
12	338.53	338.79	0.0000	0.00
13	351.93	352.18	0.0000	0.00
14	369.99	370.24	0.0000	0.00
15	507.17	507.36	0.0000	0.00
16	513.44	513.64	0.0000	0.00
17	583.34	583.51	0.0000	0.00
18	609.47	609.63	0.0000	0.00
19	642.77	642.92	0.0000	0.00
20	648.12	648.26	0.0000	0.00
21	654.52	654.66	0.0000	0.00
22	661.59	661.73	0.0000	0.00
23	725.70	725.82	0.0000	0.00
24	768.82	768.92	0.0000	0.00
25	803.70	803.79	0.0000	0.00
26	911.11	911.16	0.0000	0.00
27	969.70	969.73	0.0000	0.00
28	1052.97	1052.97	0.0000	0.00
29	1116.03	1116.01	0.0000	0.00
30	1120.45	1120.43	0.0000	0.00
31	1238.01	1237.95	0.0000	0.00
32	1243.95	1243.89	0.0000	0.00
33	1304.29	1304.20	0.0000	0.00
34	1378.33	1378.22	0.0000	0.00
35	1408.07	1407.95	0.0000	0.00
36	1461.07	1460.93	0.0000	0.00
37	1591.27	1591.08	0.0000	0.00
38	1751.50	1751.25	0.0000	0.00
39	1764.55	1764.29	0.0000	0.00
40	1832.88	1832.60	0.0000	0.00
41	2203.34	2202.91	0.0000	0.00
42	2614.40	2613.82	0.0000	0.00

Analysis Report for 1507047-05

FEEBRISID-3 041-043

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	3316.87	3316.00	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-05

FEEBRISID-3 041-043

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:15:16AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.43	44	49	46.79	1.15E+02	46.71	3.47E+02	1.37
M	2	74.79	72	83	75.13	1.61E+02	46.65	3.06E+02	1.46
m	3	77.56	72	83	77.90	2.28E+02	52.57	3.38E+02	1.46
M	4	87.80	83	100	88.13	9.69E+01	39.65	3.29E+02	1.48
	5	153.65	151	157	153.96	3.57E+01	41.38	2.89E+02	3.72
	6	185.87	184	190	186.17	1.35E+02	45.02	2.78E+02	2.20
M	7	238.66	234	246	238.95	1.84E+02	39.26	1.75E+02	1.68
m	8	241.74	234	246	242.03	7.35E+01	35.97	1.75E+02	1.68
	9	271.39	268	277	271.67	4.21E+01	43.93	2.56E+02	1.51
M	10	295.40	292	304	295.67	1.67E+02	35.31	1.27E+02	1.87
m	11	300.40	292	304	300.67	3.03E+01	30.05	1.35E+02	1.91
	12	338.53	335	342	338.79	4.90E+01	36.06	1.84E+02	1.40
	13	351.93	348	355	352.18	2.83E+02	46.78	1.76E+02	1.88
	14	369.99	365	376	370.24	6.83E+01	34.47	1.15E+02	5.14
M	15	507.17	506	517	507.36	1.31E+01	8.83	2.02E+01	2.10
m	16	513.44	506	517	513.64	2.27E+01	28.60	6.88E+01	2.10
	17	583.34	579	588	583.51	7.85E+01	31.87	1.01E+02	2.17
	18	609.47	606	615	609.63	2.28E+02	41.86	1.20E+02	2.12
M	19	642.77	641	651	642.92	1.50E+01	13.28	2.68E+01	2.89
m	20	648.12	641	651	648.26	1.47E+01	17.20	2.57E+01	2.67
	21	654.52	652	658	654.66	1.62E+01	16.20	3.77E+01	4.66
	22	661.59	659	664	661.73	1.89E+01	19.05	5.81E+01	1.35
	23	725.70	721	730	725.82	3.87E+01	21.66	4.46E+01	1.83
	24	768.82	764	774	768.92	4.78E+01	25.90	5.84E+01	2.66
	25	803.70	801	809	803.79	2.22E+01	18.17	3.96E+01	3.45
	26	911.11	907	916	911.16	5.84E+01	22.72	4.12E+01	2.14
	27	969.70	967	974	969.73	2.54E+01	19.49	4.31E+01	1.87
	28	1052.97	1047	1056	1052.97	1.68E+01	17.64	3.45E+01	2.86
M	29	1116.03	1114	1124	1116.01	7.65E+00	8.32	2.08E+01	2.49
m	30	1120.45	1114	1124	1120.43	2.30E+01	18.42	4.49E+01	2.48
M	31	1238.01	1234	1247	1237.95	1.89E+01	14.83	2.14E+01	2.80
m	32	1243.95	1234	1247	1243.89	1.29E+01	13.86	1.77E+01	2.81
	33	1304.29	1300	1307	1304.20	1.10E+01	13.71	2.40E+01	2.19
	34	1378.33	1375	1381	1378.22	1.09E+01	10.63	1.03E+01	1.62
	35	1408.07	1404	1412	1407.95	1.90E+01	14.74	2.01E+01	1.57
	36	1461.07	1456	1465	1460.93	1.66E+02	27.09	1.00E+01	1.69
	37	1591.27	1586	1595	1591.08	1.36E+01	9.43	4.88E+00	6.63
	38	1751.50	1748	1754	1751.25	8.00E+00	5.66	0.00E+00	2.22
	39	1764.55	1761	1768	1764.29	3.17E+01	12.33	4.65E+00	3.43
	40	1832.88	1829	1835	1832.60	5.00E+00	4.47	0.00E+00	1.24

Analysis Report for 1507047-05

FEEBRISID-3 041-043

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	2203.34	2200 -	2207	2202.91	8.20E+00	10.39	1.36E+01	2.58
42	2614.40	2610 -	2617	2613.82	2.19E+01	10.58	4.13E+00	3.19
43	3316.87	3311 -	3318	3316.00	5.00E+00	4.47	0.00E+00	2.98

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:15:16AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.43	44 -	49	1.15E+02	46.71	3.47E+02	3.41E+01
M	2	74.79	72 -	83	1.61E+02	46.65	3.06E+02	2.88E+01
m	3	77.56	72 -	83	2.28E+02	52.57	3.38E+02	3.02E+01
M	4	87.80	83 -	100	9.69E+01	39.65	3.29E+02	2.98E+01
	5	153.65	151 -	157	3.57E+01	41.38	2.89E+02	3.26E+01
	6	185.87	184 -	190	1.35E+02	45.02	2.78E+02	3.17E+01
M	7	238.66	234 -	246	1.84E+02	39.26	1.75E+02	2.17E+01
m	8	241.74	234 -	246	7.35E+01	35.97	1.75E+02	2.17E+01
	9	271.39	268 -	277	4.21E+01	43.93	2.56E+02	1.73E+01
M	10	295.40	292 -	304	1.67E+02	35.31	1.27E+02	1.85E+01
m	11	300.40	292 -	304	3.03E+01	30.05	1.35E+02	1.91E+01
	12	338.53	335 -	342	4.90E+01	36.06	1.84E+02	2.73E+01
	13	351.93	348 -	355	2.83E+02	46.78	1.76E+02	2.67E+01
	14	369.99	365 -	376	6.83E+01	34.47	1.15E+02	2.49E+01
M	15	507.17	506 -	517	1.31E+01	8.83	2.02E+01	7.38E+00
m	16	513.44	506 -	517	2.27E+01	28.60	6.88E+01	1.36E+01
	17	583.34	579 -	588	7.85E+01	31.87	1.01E+02	2.18E+01
	18	609.47	606 -	615	2.28E+02	41.86	1.20E+02	2.38E+01
M	19	642.77	641 -	651	1.50E+01	13.28	2.68E+01	8.50E+00
m	20	648.12	641 -	651	1.47E+01	17.20	2.57E+01	8.34E+00
	21	654.52	652 -	658	1.62E+01	16.20	3.77E+01	1.16E+01
	22	661.59	659 -	664	1.89E+01	19.05	5.81E+01	1.39E+01
	23	725.70	721 -	730	3.87E+01	21.66	4.46E+01	1.46E+01
	24	768.82	764 -	774	4.78E+01	25.90	5.84E+01	1.80E+01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	25	803.70	801 -	809	2.22E+01	18.17	3.96E+01	1.28E+01
	26	911.11	907 -	916	5.84E+01	22.72	4.12E+01	1.38E+01
	27	969.70	967 -	974	2.54E+01	19.49	4.31E+01	1.37E+01
	28	1052.97	1047 -	1056	1.68E+01	17.64	3.45E+01	1.28E+01
M	29	1116.03	1114 -	1124	7.65E+00	8.32	2.08E+01	7.49E+00
m	30	1120.45	1114 -	1124	2.30E+01	18.42	4.49E+01	1.10E+01
M	31	1238.01	1234 -	1247	1.89E+01	14.83	2.14E+01	7.60E+00
m	32	1243.95	1234 -	1247	1.29E+01	13.86	1.77E+01	6.91E+00
	33	1304.29	1300 -	1307	1.10E+01	13.71	2.40E+01	9.86E+00
	34	1378.33	1375 -	1381	1.09E+01	10.63	1.03E+01	6.85E+00
	35	1408.07	1404 -	1412	1.90E+01	14.74	2.01E+01	9.77E+00
	36	1461.07	1456 -	1465	1.66E+02	27.09	1.00E+01	6.88E+00
	37	1591.27	1586 -	1595	1.36E+01	9.43	4.88E+00	4.85E+00
	38	1751.50	1748 -	1754	8.00E+00	5.66	0.00E+00	0.00E+00
	39	1764.55	1761 -	1768	3.17E+01	12.33	4.65E+00	4.13E+00
	40	1832.88	1829 -	1835	5.00E+00	4.47	0.00E+00	0.00E+00
	41	2203.34	2200 -	2207	8.20E+00	10.39	1.36E+01	7.13E+00
	42	2614.40	2610 -	2617	2.19E+01	10.58	4.13E+00	4.05E+00
	43	3316.87	3311 -	3318	5.00E+00	4.47	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 7:15:16AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.43	44 -	49	46.79	1.15E+02	46.71	3.47E+02	PB-210
M	2	74.79	72 -	83	75.13	1.61E+02	46.65	3.06E+02	AM-243
m	3	77.56	72 -	83	77.90	2.28E+02	52.57	3.38E+02	TI-44
M	4	87.80	83 -	100	88.13	9.69E+01	39.65	3.29E+02	SN-126
									CD-109
									LU-176

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	5	153.65	151 -	157	153.96	3.57E+01	41.38	2.89E+02	CS-136
	6	185.87	184 -	190	186.17	1.35E+02	45.02	2.78E+02	RA-226
M	7	238.66	234 -	246	238.95	1.84E+02	39.26	1.75E+02	PB-212
m	8	241.74	234 -	246	242.03	7.35E+01	35.97	1.75E+02	RA-224
	9	271.39	268 -	277	271.67	4.21E+01	43.93	2.56E+02	LU-173
M	10	295.40	292 -	304	295.67	1.67E+02	35.31	1.27E+02	PB-214
m	11	300.40	292 -	304	300.67	3.03E+01	30.05	1.35E+02	GA-67 PB-212 BI-210M
	12	338.53	335 -	342	338.79	4.90E+01	36.06	1.84E+02	AC-228
	13	351.93	348 -	355	352.18	2.83E+02	46.78	1.76E+02	PB-214
	14	369.99	365 -	376	370.24	6.83E+01	34.47	1.15E+02	.....
M	15	507.17	506 -	517	507.36	1.31E+01	8.83	2.02E+01	.....
m	16	513.44	506 -	517	513.64	2.27E+01	28.60	6.88E+01	KR-85 SR-85
	17	583.34	579 -	588	583.51	7.85E+01	31.87	1.01E+02	TL-208
	18	609.47	606 -	615	609.63	2.28E+02	41.86	1.20E+02	BI-214
M	19	642.77	641 -	651	642.92	1.50E+01	13.28	2.68E+01	.....
m	20	648.12	641 -	651	648.26	1.47E+01	17.20	2.57E+01	.....
	21	654.52	652 -	658	654.66	1.62E+01	16.20	3.77E+01	.....
	22	661.59	659 -	664	661.73	1.89E+01	19.05	5.81E+01	CS-137
	23	725.70	721 -	730	725.82	3.87E+01	21.66	4.46E+01	.....
	24	768.82	764 -	774	768.92	4.78E+01	25.90	5.84E+01	.....
	25	803.70	801 -	809	803.79	2.22E+01	18.17	3.96E+01	.....
	26	911.11	907 -	916	911.16	5.84E+01	22.72	4.12E+01	AC-228
	27	969.70	967 -	974	969.73	2.54E+01	19.49	4.31E+01	AC-228
	28	1052.97	1047 -	1056	1052.97	1.68E+01	17.64	3.45E+01	.....
M	29	1116.03	1114 -	1124	1116.01	7.65E+00	8.32	2.08E+01	ZN-65
m	30	1120.45	1114 -	1124	1120.43	2.30E+01	18.42	4.49E+01	SC-46 BI-214 TA-182
M	31	1238.01	1234 -	1247	1237.95	1.89E+01	14.83	2.14E+01	CO-56
m	32	1243.95	1234 -	1247	1243.89	1.29E+01	13.86	1.77E+01	.....
	33	1304.29	1300 -	1307	1304.20	1.10E+01	13.71	2.40E+01	.....
	34	1378.33	1375 -	1381	1378.22	1.09E+01	10.63	1.03E+01	.....
	35	1408.07	1404 -	1412	1407.95	1.90E+01	14.74	2.01E+01	EU-152
	36	1461.07	1456 -	1465	1460.93	1.66E+02	27.09	1.00E+01	K-40
	37	1591.27	1586 -	1595	1591.08	1.36E+01	9.43	4.88E+00	.....
	38	1751.50	1748 -	1754	1751.25	8.00E+00	5.66	0.00E+00	.....
	39	1764.55	1761 -	1768	1764.29	3.17E+01	12.33	4.65E+00	BI-214
	40	1832.88	1829 -	1835	1832.60	5.00E+00	4.47	0.00E+00	.....
	41	2203.34	2200 -	2207	2202.91	8.20E+00	10.39	1.36E+01	BI-214
	42	2614.40	2610 -	2617	2613.82	2.19E+01	10.58	4.13E+00	TL-208
	43	3316.87	3311 -	3318	3316.00	5.00E+00	4.47	0.00E+00	.....

Analysis Report for 1507047-05

FEEBRISID-3 041-043

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 7:15:16AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.43	1.15E+02	46.71	1.67E-02	1.78E-03
M	2	74.79	1.61E+02	46.65	2.75E-02	2.30E-03
m	3	77.56	2.28E+02	52.57	2.78E-02	2.39E-03
M	4	87.80	9.69E+01	39.65	2.85E-02	2.73E-03
	5	153.65	3.57E+01	41.38	2.48E-02	2.15E-03
	6	185.87	1.35E+02	45.02	2.24E-02	2.03E-03
M	7	238.66	1.84E+02	39.26	1.92E-02	1.64E-03
m	8	241.74	7.35E+01	35.97	1.91E-02	1.62E-03
	9	271.39	4.21E+01	43.93	1.77E-02	1.40E-03
M	10	295.40	1.67E+02	35.31	1.67E-02	1.31E-03
m	11	300.40	3.03E+01	30.05	1.65E-02	1.30E-03
	12	338.53	4.90E+01	36.06	1.52E-02	1.22E-03
	13	351.93	2.83E+02	46.78	1.48E-02	1.19E-03
	14	369.99	6.83E+01	34.47	1.42E-02	1.16E-03
M	15	507.17	1.31E+01	8.83	1.13E-02	9.94E-04
m	16	513.44	2.27E+01	28.60	1.12E-02	9.88E-04
	17	583.34	7.85E+01	31.87	1.02E-02	9.15E-04
	18	609.47	2.28E+02	41.86	9.82E-03	8.88E-04
M	19	642.77	1.50E+01	13.28	9.43E-03	8.54E-04
m	20	648.12	1.47E+01	17.20	9.37E-03	8.48E-04
	21	654.52	1.62E+01	16.20	9.29E-03	8.42E-04
	22	661.59	1.89E+01	19.05	9.22E-03	8.34E-04
	23	725.70	3.87E+01	21.66	8.57E-03	7.77E-04
	24	768.82	4.78E+01	25.90	8.19E-03	7.38E-04
	25	803.70	2.22E+01	18.17	7.90E-03	7.07E-04
	26	911.11	5.84E+01	22.72	7.15E-03	6.16E-04
	27	969.70	2.54E+01	19.49	6.80E-03	5.85E-04
	28	1052.97	1.68E+01	17.64	6.37E-03	5.42E-04
M	29	1116.03	7.65E+00	8.32	6.08E-03	5.09E-04
m	30	1120.45	2.30E+01	18.42	6.07E-03	5.07E-04
M	31	1238.01	1.89E+01	14.83	5.61E-03	4.68E-04
m	32	1243.95	1.29E+01	13.86	5.59E-03	4.67E-04
	33	1304.29	1.10E+01	13.71	5.40E-03	4.56E-04
	34	1378.33	1.09E+01	10.63	5.18E-03	4.40E-04

Analysis Report for 1507047-05

FEEBRISID-3 041-043

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
35	1408.07	1.90E+01	14.74	5.10E-03	4.32E-04
36	1461.07	1.66E+02	27.09	4.97E-03	4.19E-04
37	1591.27	1.36E+01	9.43	4.69E-03	3.87E-04
38	1751.50	8.00E+00	5.66	4.41E-03	3.47E-04
39	1764.55	3.17E+01	12.33	4.40E-03	3.44E-04
40	1832.88	5.00E+00	4.47	4.30E-03	3.27E-04
41	2203.34	8.20E+00	10.39	3.95E-03	3.26E-04
42	2614.40	2.19E+01	10.58	3.79E-03	3.26E-04
43	3316.87	5.00E+00	4.47	3.93E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 7:15:16AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.43	1.15E+02	46.71	4.67E+01	7.87E+00	6.86E+01	4.74E+01
M	2	74.79	1.61E+02	46.65			1.61E+02	4.66E+01
m	3	77.56	2.28E+02	52.57	1.37E+01	4.21E+00	2.15E+02	5.27E+01
M	4	87.80	9.69E+01	39.65			9.69E+01	3.96E+01
	5	153.65	3.57E+01	41.38			3.57E+01	4.14E+01
	6	185.87	1.35E+02	45.02	6.17E+01	7.27E+00	7.32E+01	4.56E+01
M	7	238.66	1.84E+02	39.26	1.90E+01	5.64E+00	1.65E+02	3.97E+01
m	8	241.74	7.35E+01	35.97			7.35E+01	3.60E+01
	9	271.39	4.21E+01	43.93			4.21E+01	4.39E+01
M	10	295.40	1.67E+02	35.31	3.06E+00	4.82E+00	1.64E+02	3.56E+01
m	11	300.40	3.03E+01	30.05			3.03E+01	3.00E+01
	12	338.53	4.90E+01	36.06			4.90E+01	3.61E+01
	13	351.93	2.83E+02	46.78	1.06E+01	4.49E+00	2.72E+02	4.70E+01
	14	369.99	6.83E+01	34.47			6.83E+01	3.45E+01
M	15	507.17	1.31E+01	8.83			1.31E+01	8.83E+00
m	16	513.44	2.27E+01	28.60			2.27E+01	2.86E+01
	17	583.34	7.85E+01	31.87	3.96E+00	4.13E+00	7.46E+01	3.21E+01
	18	609.47	2.28E+02	41.86	8.00E+00	4.15E+00	2.20E+02	4.21E+01
M	19	642.77	1.50E+01	13.28			1.50E+01	1.33E+01
m	20	648.12	1.47E+01	17.20			1.47E+01	1.72E+01
	21	654.52	1.62E+01	16.20			1.62E+01	1.62E+01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	22	661.59	1.89E+01	19.05			1.89E+01	1.91E+01
	23	725.70	3.87E+01	21.66			3.87E+01	2.17E+01
	24	768.82	4.78E+01	25.90			4.78E+01	2.59E+01
	25	803.70	2.22E+01	18.17			2.22E+01	1.82E+01
	26	911.11	5.84E+01	22.72	3.29E+00	3.12E+00	5.51E+01	2.29E+01
	27	969.70	2.54E+01	19.49			2.54E+01	1.95E+01
	28	1052.97	1.68E+01	17.64			1.68E+01	1.76E+01
M	29	1116.03	7.65E+00	8.32			7.65E+00	8.32E+00
m	30	1120.45	2.30E+01	18.42			2.30E+01	1.84E+01
M	31	1238.01	1.89E+01	14.83			1.89E+01	1.48E+01
m	32	1243.95	1.29E+01	13.86			1.29E+01	1.39E+01
	33	1304.29	1.10E+01	13.71			1.10E+01	1.37E+01
	34	1378.33	1.09E+01	10.63			1.09E+01	1.06E+01
	35	1408.07	1.90E+01	14.74			1.90E+01	1.47E+01
	36	1461.07	1.66E+02	27.09	5.51E+00	2.16E+00	1.60E+02	2.72E+01
	37	1591.27	1.36E+01	9.43			1.36E+01	9.43E+00
	38	1751.50	8.00E+00	5.66			8.00E+00	5.66E+00
	39	1764.55	3.17E+01	12.33	1.06E+00	1.86E+00	3.06E+01	1.25E+01
	40	1832.88	5.00E+00	4.47			5.00E+00	4.47E+00
	41	2203.34	8.20E+00	10.39			8.20E+00	1.04E+01
	42	2614.40	2.19E+01	10.58	3.94E+00	1.34E+00	1.80E+01	1.07E+01
	43	3316.87	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 7:15:16AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.43	1.15E+02	46.71	4.67E+01	7.87E+00	6.86E+01	4.74E+01
M	2	74.79	1.61E+02	46.65			1.61E+02	4.66E+01
m	3	77.56	2.28E+02	52.57	1.37E+01	4.21E+00	2.15E+02	5.27E+01
M	4	87.80	9.69E+01	39.65			9.69E+01	3.96E+01
	5	153.65	3.57E+01	41.38			3.57E+01	4.14E+01
	6	185.87	1.35E+02	45.02	6.17E+01	7.27E+00	7.32E+01	4.56E+01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	7	238.66	1.84E+02	39.26	1.90E+01	5.64E+00	1.65E+02	3.97E+01
m	8	241.74	7.35E+01	35.97			7.35E+01	3.60E+01
	9	271.39	4.21E+01	43.93			4.21E+01	4.39E+01
M	10	295.40	1.67E+02	35.31	3.06E+00	4.82E+00	1.64E+02	3.56E+01
m	11	300.40	3.03E+01	30.05			3.03E+01	3.00E+01
	12	338.53	4.90E+01	36.06			4.90E+01	3.61E+01
	13	351.93	2.83E+02	46.78	1.06E+01	4.49E+00	2.72E+02	4.70E+01
	14	369.99	6.83E+01	34.47			6.83E+01	3.45E+01
M	15	507.17	1.31E+01	8.83			1.31E+01	8.83E+00
m	16	513.44	2.27E+01	28.60			2.27E+01	2.86E+01
	17	583.34	7.85E+01	31.87	3.96E+00	4.13E+00	7.46E+01	3.21E+01
	18	609.47	2.28E+02	41.86	8.00E+00	4.15E+00	2.20E+02	4.21E+01
M	19	642.77	1.50E+01	13.28			1.50E+01	1.33E+01
m	20	648.12	1.47E+01	17.20			1.47E+01	1.72E+01
	21	654.52	1.62E+01	16.20			1.62E+01	1.62E+01
	22	661.59	1.89E+01	19.05			1.89E+01	1.91E+01
	23	725.70	3.87E+01	21.66			3.87E+01	2.17E+01
	24	768.82	4.78E+01	25.90			4.78E+01	2.59E+01
	25	803.70	2.22E+01	18.17			2.22E+01	1.82E+01
	26	911.11	5.84E+01	22.72	3.29E+00	3.12E+00	5.51E+01	2.29E+01
	27	969.70	2.54E+01	19.49			2.54E+01	1.95E+01
	28	1052.97	1.68E+01	17.64			1.68E+01	1.76E+01
M	29	1116.03	7.65E+00	8.32			7.65E+00	8.32E+00
m	30	1120.45	2.30E+01	18.42			2.30E+01	1.84E+01
M	31	1238.01	1.89E+01	14.83			1.89E+01	1.48E+01
m	32	1243.95	1.29E+01	13.86			1.29E+01	1.39E+01
	33	1304.29	1.10E+01	13.71			1.10E+01	1.37E+01
	34	1378.33	1.09E+01	10.63			1.09E+01	1.06E+01
	35	1408.07	1.90E+01	14.74			1.90E+01	1.47E+01
	36	1461.07	1.66E+02	27.09	5.51E+00	2.16E+00	1.60E+02	2.72E+01
	37	1591.27	1.36E+01	9.43			1.36E+01	9.43E+00
	38	1751.50	8.00E+00	5.66			8.00E+00	5.66E+00
	39	1764.55	3.17E+01	12.33	1.06E+00	1.86E+00	3.06E+01	1.25E+01
	40	1832.88	5.00E+00	4.47			5.00E+00	4.47E+00
	41	2203.34	8.20E+00	10.39			8.20E+00	1.04E+01
	42	2614.40	2.19E+01	10.58	3.94E+00	1.34E+00	1.80E+01	1.07E+01
	43	3316.87	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1507047-05

FEEBRISID-3 041-043

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.989	1460.81	*	10.67	8.48E+00	1.61E+00
ZN-65	0.960	1115.52	*	50.75	7.52E-02	8.20E-02
KR-85	0.953	513.99	*	0.43	1.31E+01	1.66E+01
SR-85	0.952	513.99	*	99.27	7.70E-02	9.74E-02
CD-109	0.991	88.03	*	3.72	2.67E+00	1.13E+00
SN-126	0.992	87.57	*	37.00	2.57E-01	1.08E-01
CS-137	0.999	661.65	*	85.12	6.78E-02	6.85E-02
LU-173	0.553	100.72		5.24		
		272.11	*	21.20	3.28E-01	3.43E-01
TL-208	0.882	583.14	*	30.22	6.80E-01	3.00E-01
		860.37		4.48		
		2614.66	*	35.85	3.71E-01	2.22E-01
PB-210	0.999	46.50	*	4.25	2.71E+00	1.89E+00
PB-212	0.999	238.63	*	44.60	5.40E-01	1.38E-01
		300.09	*	3.41	1.51E+00	1.50E+00
BI-214	0.989	609.31	*	46.30	1.36E+00	2.87E-01
		1120.29	*	15.10	7.04E-01	5.67E-01
		1764.49	*	15.80	1.24E+00	5.12E-01
		2204.22	*	4.98	1.17E+00	1.48E+00
PB-214	0.998	295.21	*	19.19	1.43E+00	3.32E-01
		351.92	*	37.19	1.39E+00	2.65E-01
RA-224	0.912	240.98	*	3.95	2.74E+00	1.36E+00
RA-226	0.981	186.21	*	3.28	2.79E+00	5.40E+00
AC-228	0.982	338.32	*	11.40	7.94E-01	5.87E-01
		911.07	*	27.70	7.80E-01	3.31E-01
		969.11	*	16.60	6.31E-01	4.87E-01
AM-243	0.998	74.67	*	66.00	2.49E-01	7.51E-02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:15:16AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.56	5.96736E-02	12.28		
	5	153.65	9.91898E-03	57.94	Tol.	CS-136
	14	369.99	1.89749E-02	25.23	Sum	
M	15	507.17	3.62583E-03	33.83		
M	19	642.77	4.17979E-03	44.11		
m	20	648.12	4.07174E-03	58.69	Sum	
	21	654.52	4.49206E-03	50.09		
	23	725.70	1.07468E-02	27.99		
	24	768.82	1.32828E-02	27.09	Sum	
	25	803.70	6.17064E-03	40.89		
	28	1052.97	4.65686E-03	52.60		
M	31	1238.01	5.24114E-03	39.31		
m	32	1243.95	3.57223E-03	53.87	Sum	
	33	1304.29	3.05556E-03	62.32		
	34	1378.33	3.02083E-03	48.87		
	35	1408.07	5.26820E-03	38.86	Tol.	EU-152
	37	1591.27	3.76736E-03	34.78		
	38	1751.50	2.22222E-03	35.36		
	40	1832.88	1.38889E-03	44.72		
	43	3316.87	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	8.48E+00	1.61E+00
ZN-65	0.96	1115.52	*	50.75	7.52E-02	8.20E-02
KR-85	0.95	513.99	*	0.43	1.31E+01	1.66E+01
SR-85	0.95	513.99	*	99.27	7.70E-02	9.74E-02
CD-109	0.99	88.03	*	3.72	2.67E+00	1.13E+00
SN-126	0.99	87.57	*	37.00	2.57E-01	1.08E-01
CS-137	0.99	661.65	*	85.12	6.78E-02	6.85E-02
LU-173	0.55	100.72		5.24		

Analysis Report for 1507047-05

FEEBRISID-3 041-043

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
LU-173	0.55	272.11	*	21.20	3.28E-01	3.43E-01
TL-208	0.88	583.14	*	30.22	6.80E-01	3.00E-01
		860.37		4.48		
		2614.66	*	35.85	3.71E-01	2.22E-01
PB-210	0.99	46.50	*	4.25	2.71E+00	1.89E+00
PB-212	0.99	238.63	*	44.60	5.40E-01	1.38E-01
		300.09	*	3.41	1.51E+00	1.50E+00
BI-214	0.98	609.31	*	46.30	1.36E+00	2.87E-01
		1120.29	*	15.10	7.04E-01	5.67E-01
		1764.49	*	15.80	1.24E+00	5.12E-01
		2204.22	*	4.98	1.17E+00	1.48E+00
PB-214	0.99	295.21	*	19.19	1.43E+00	3.32E-01
		351.92	*	37.19	1.39E+00	2.65E-01
RA-224	0.91	240.98	*	3.95	2.74E+00	1.36E+00
RA-226	0.98	186.21	*	3.28	2.79E+00	5.40E+00
AC-228	0.98	338.32	*	11.40	7.94E-01	5.87E-01
		911.07	*	27.70	7.80E-01	3.31E-01
		969.11	*	16.60	6.31E-01	4.87E-01
AM-243	0.99	74.67	*	66.00	2.49E-01	7.51E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.989	8.48E+00	1.61E+00	
	ZN-65	0.960	7.52E-02	8.20E-02	
?	KR-85	0.953	1.31E+01	1.66E+01	
?	SR-85	0.952	7.70E-02	9.74E-02	
?	CD-109	0.991	2.67E+00	1.13E+00	
?	SN-126	0.992	2.57E-01	1.08E-01	
	CS-137	0.999	6.78E-02	6.85E-02	
	LU-173	0.553	3.28E-01	3.43E-01	

Analysis Report for 1507047-05

FEEBRISID-3 041-043

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
TL-208	0.882	4.81E-01	1.78E-01	
PB-210	0.999	2.71E+00	1.89E+00	
PB-212	0.999	5.48E-01	1.37E-01	
BI-214	0.989	1.22E+00	2.26E-01	
PB-214	0.998	1.41E+00	2.07E-01	
RA-224	0.912	2.74E+00	1.36E+00	
RA-226	0.981	2.79E+00	5.40E+00	
AC-228	0.982	7.43E-01	2.48E-01	
AM-243	0.998	2.49E-01	7.51E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-05

FEEBRISID-3 041-043

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:15:16AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.56	5.96736E-02	12.28		
	5	153.65	9.91898E-03	57.94	Tol.	CS-136
	14	369.99	1.89749E-02	25.23	Sum	
M	15	507.17	3.62583E-03	33.83		
M	19	642.77	4.17979E-03	44.11		
m	20	648.12	4.07174E-03	58.69	Sum	
	21	654.52	4.49206E-03	50.09		
	23	725.70	1.07468E-02	27.99		
	24	768.82	1.32828E-02	27.09	Sum	
	25	803.70	6.17064E-03	40.89		
	28	1052.97	4.65686E-03	52.60		
M	31	1238.01	5.24114E-03	39.31		
m	32	1243.95	3.57223E-03	53.87	Sum	
	33	1304.29	3.05556E-03	62.32		
	34	1378.33	3.02083E-03	48.87		
	35	1408.07	5.26820E-03	38.86	Tol.	EU-152
	37	1591.27	3.76736E-03	34.78		
	38	1751.50	2.22222E-03	35.36		
	40	1832.88	1.38889E-03	44.72		
	43	3316.87	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-4.18E-01	1.17E+00	1.17E+00
+	NA-22	1274.54		99.94	-1.50E-02	1.11E-01	1.11E-01
+	NA-24	1368.53		99.99	0.00E+00	2.59E+12	3.15E+12
		2754.09		99.86	5.75E+11		2.59E+12
+	AL-26	1808.65		99.76	1.94E-02	7.79E-02	7.79E-02
+	K-40	1460.81	*	10.67	8.48E+00	9.98E-01	9.98E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	5.82E-02	9.08E-02	9.08E-02
		78.34		96.00	1.22E-01		1.12E-01
+	SC-46	889.25		99.98	5.71E-03	1.32E-01	1.32E-01
		1120.51		99.99	1.12E-01		1.97E-01
+	V-48	983.52		99.98	-1.40E-01	3.64E-01	3.64E-01
		1312.10		97.50	7.83E-02		3.94E-01
+	CR-51	320.08		9.83	-1.02E+00	1.33E+00	1.33E+00
+	MN-54	834.83		99.97	-3.14E-02	1.06E-01	1.06E-01
+	CO-56	846.75		99.96	-3.71E-02	1.04E-01	1.04E-01
		1037.75		14.03	-1.94E-01		8.90E-01
		1238.25		67.00	1.37E-01		2.80E-01
		1771.40		15.51	-1.77E-01		7.91E-01
		2598.48		16.90	-2.42E-01		4.11E-01
+	CO-57	122.06		85.51	-1.72E-02	7.31E-02	7.31E-02
		136.48		10.60	-5.60E-01		5.67E-01
+	CO-58	810.76		99.40	-4.02E-02	1.16E-01	1.16E-01
+	FE-59	1099.22		56.50	-2.25E-02	2.65E-01	2.65E-01
		1291.56		43.20	6.58E-03		3.70E-01
+	CO-60	1173.22		100.00	-4.84E-02	9.66E-02	1.14E-01
		1332.49		100.00	-2.37E-02		9.66E-02
+	ZN-65	1115.52	*	50.75	7.52E-02	3.64E-01	3.64E-01
+	GA-67	93.31		35.70	1.94E+02	9.94E+01	9.94E+01
		208.95		2.24	1.59E+02		1.21E+03
		300.22		16.00	-1.61E+02		2.10E+02
+	SE-75	121.11		16.70	-1.21E-02	1.13E-01	4.26E-01
		136.00		59.20	5.12E-03		1.13E-01
		264.65		59.80	2.25E-03		1.19E-01
		279.53		25.20	-3.48E-02		3.23E-01
		400.65		11.40	-1.03E-01		7.65E-01
+	RB-82	776.52		13.00	-3.74E-01	1.50E+00	1.50E+00
+	RB-83	520.41		46.00	7.57E-02	2.36E-01	2.36E-01
		529.64		30.30	5.29E-02		3.40E-01
		552.65		16.40	-1.26E-02		6.26E-01
+	KR-85	513.99	*	0.43	1.31E+01	3.06E+01	3.06E+01
+	SR-85	513.99	*	99.27	7.70E-02	1.80E-01	1.80E-01
+	Y-88	898.02		93.40	-9.95E-03	1.03E-01	1.32E-01
		1836.01		99.38	1.31E-02		1.03E-01
+	NB-93M	16.57		9.43	-4.88E+01	1.17E+02	1.17E+02
+	NB-94	702.63		100.00	-3.71E-02	1.00E-01	1.00E-01
		871.10		100.00	7.71E-03		1.00E-01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	1.82E-01	2.37E-01	2.37E-01
+	NB-95M	235.69		25.00	-2.39E+02	6.38E+01	6.38E+01
+	ZR-95	724.18		43.70	2.31E-01	2.03E-01	3.53E-01
		756.72		55.30	-9.50E-02		2.03E-01
+	MO-99	181.06		6.20	1.01E+03	7.43E+02	1.22E+03
		739.58		12.80	-3.15E+02		7.43E+02
		778.00		4.50	5.28E+02		2.62E+03
+	RU-103	497.08		89.00	-3.53E-02	1.57E-01	1.57E-01
+	RU-106	621.84		9.80	-3.49E-01	8.51E-01	8.51E-01
+	AG-108M	433.93		89.90	-1.86E-02	9.22E-02	9.22E-02
		614.37		90.40	1.87E-02		1.08E-01
		722.95		90.50	-2.86E-02		1.10E-01
+	CD-109	88.03	*	3.72	2.67E+00	5.25E+00	5.25E+00
+	AG-110M	657.75		93.14	-1.21E-01	1.10E-01	1.10E-01
		677.61		10.53	1.81E-01		9.61E-01
		706.67		16.46	1.42E-01		6.44E-01
		763.93		21.98	1.43E-01		5.68E-01
		884.67		71.63	-5.43E-02		1.58E-01
		1384.27		23.94	1.08E-01		4.27E-01
+	CD-113M	263.70		0.02	3.15E+01	2.71E+02	2.71E+02
+	SN-113	255.12		1.93	1.65E+00	1.14E-01	4.19E+00
		391.69		64.90	-3.94E-02		1.14E-01
+	TE123M	159.00		84.10	3.32E-02	8.90E-02	8.90E-02
+	SB-124	602.71		97.87	3.59E-02	1.46E-01	1.46E-01
		645.85		7.26	2.40E-01		1.76E+00
		722.78		11.10	-3.22E-01		1.24E+00
		1691.02		49.00	-2.19E-02		2.10E-01
+	I-125	35.49		6.49	-6.63E-02	4.03E+00	4.03E+00
+	SB-125	176.33		6.89	-3.61E-02	2.90E-01	9.68E-01
		427.89		29.33	1.96E-02		2.90E-01
		463.38		10.35	3.23E-01		9.56E-01
		600.56		17.80	2.21E-01		5.96E-01
		635.90		11.32	3.43E-01		8.63E-01
+	SB-126	414.70		83.30	-2.69E-01	4.52E-01	4.55E-01
		666.33		99.60	1.85E-02		4.97E-01
		695.00		99.60	1.04E-01		4.52E-01
		720.50		53.80	-1.38E-01		7.88E-01
+	SN-126	87.57	*	37.00	2.57E-01	5.07E-01	5.07E-01
+	SB-127	473.00		25.00	-1.41E+01	4.41E+01	4.99E+01
		685.20		35.70	1.31E+01		4.41E+01
		783.80		14.70	0.00E+00		1.10E+02
+	I-129	29.78		57.00	3.62E-01	7.03E-01	7.03E-01
		33.60		13.20	-5.98E-01		1.70E+00
		39.58		7.52	1.01E+00		1.94E+00
+	I-131	284.30		6.05	2.55E+00	8.27E-01	1.32E+01
		364.48		81.20	-3.05E-02		8.27E-01
		636.97		7.26	-2.59E-01		1.49E+01
		722.89		1.80	-1.60E+01		6.17E+01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72		13.10	-2.05E+01	2.84E+01	2.89E+02
			228.16		88.00	-1.20E+01		2.84E+01
+		BA-133	81.00		33.00	-4.82E-01	1.36E-01	2.37E-01
			302.84		17.80	1.26E-01		4.45E-01
			356.01		60.00	6.41E-03		1.36E-01
+		I-133	529.87		86.30	7.60E+07	4.89E+08	4.89E+08
+		XE-133	81.00		38.00	-1.68E+01	8.23E+00	8.23E+00
+		CS-134	563.23		8.38	3.24E-01	1.12E-01	1.13E+00
			569.32		15.43	3.90E-01		6.58E-01
			604.70		97.60	3.17E-02		1.29E-01
			795.84		85.40	7.07E-02		1.12E-01
			801.93		8.73	-9.36E-02		1.19E+00
+		CS-135	268.24		16.00	1.21E-02	4.39E-01	4.39E-01
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	3.86E+00	3.44E-01	3.89E+00
			163.89		4.61	2.28E+00		6.40E+00
			176.55		13.56	-7.85E-02		2.11E+00
			273.65		12.66	-4.93E-01		2.52E+00
			340.57		48.50	3.69E-01		7.81E-01
			818.50		99.70	-1.87E-01		3.44E-01
			1048.07		79.60	-2.40E-02		5.52E-01
			1235.34		19.70	-6.89E-02		3.01E+00
+		CS-137	661.65	*	85.12	6.78E-02	1.09E-01	1.09E-01
+		LA-138	788.74		34.00	5.63E-02	1.11E-01	2.94E-01
			1435.80		66.00	1.27E-02		1.11E-01
+		CE-139	165.85		80.35	6.71E-02	9.66E-02	9.66E-02
+		BA-140	162.64		6.70	-1.29E+00	1.57E+00	4.55E+00
			304.84		4.50	-1.00E+00		6.78E+00
			423.70		3.20	-6.44E+00		1.14E+01
			437.55		2.00	-3.83E+00		1.86E+01
			537.32		25.00	8.13E-01		1.57E+00
+		LA-140	328.77		20.50	7.78E-01	4.28E-01	1.81E+00
			487.03		45.50	-3.10E-01		8.32E-01
			815.85		23.50	-4.52E-01		1.67E+00
			1596.49		95.49	-1.14E-01		4.28E-01
+		CE-141	145.44		48.40	7.85E-02	2.68E-01	2.68E-01
+		CE-143	57.36		11.80	-2.83E+05	3.48E+05	9.63E+05
			293.26		42.00	5.99E+05		3.48E+05
			664.55		5.20	6.90E+05		3.02E+06
+		CE-144	133.54		10.80	2.15E-01	5.85E-01	5.85E-01
+		PM-144	476.78		42.00	-1.50E-02	9.08E-02	2.10E-01
			618.01		98.60	-1.76E-03		9.08E-02
			696.49		99.49	4.89E-02		1.11E-01
+		PM-145	36.85		21.70	1.86E-01	4.05E-01	7.88E-01
			37.36		39.70	-3.22E-01		4.05E-01
			42.30		15.10	3.54E-01		8.16E-01
			72.40		2.31	-3.74E+00		3.87E+00

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90		39.94	-2.60E-02	2.15E-01	2.15E-01
		735.90		14.01	-1.91E-03		6.19E-01
		747.13		13.10	2.06E-01		7.16E-01
+	ND-147	91.11		28.90	-2.36E+00	1.85E+00	1.85E+00
		531.02		13.10	-2.17E+00		3.46E+00
+	PM-149	285.90		3.10	-2.46E+03	1.44E+04	1.44E+04
+	EU-152	121.78		20.50	-6.70E-02	2.85E-01	2.85E-01
		244.69		5.40	2.08E-01		1.47E+00
		344.27		19.13	-7.84E-02		3.62E-01
		778.89		9.20	9.18E-01		1.17E+00
		964.01		10.40	5.25E-01		1.20E+00
		1085.78		7.22	-3.28E-01		1.30E+00
		1112.02		9.60	-1.80E-01		9.95E-01
		1407.95		14.94	7.20E-01		9.92E-01
+	GD-153	97.43		31.30	-7.37E-02	2.14E-01	2.14E-01
		103.18		22.20	4.13E-02		2.96E-01
+	EU-154	123.07		40.50	2.44E-02	1.47E-01	1.47E-01
		723.30		19.70	-1.32E-01		5.10E-01
		873.19		11.50	5.02E-01		8.76E-01
		996.32		10.30	3.41E-01		9.88E-01
		1004.76		17.90	1.67E-01		6.40E-01
		1274.45		35.50	-4.16E-02		3.08E-01
+	EU-155	86.50		30.90	4.19E-02	2.72E-01	2.72E-01
		105.30		20.70	-1.74E-01		2.95E-01
+	EU-156	811.77		10.40	3.10E-01	3.25E+00	3.25E+00
		1153.47		7.20	-1.02E-02		5.88E+00
		1230.71		8.90	8.73E-01		4.38E+00
+	HO-166M	184.41		72.60	1.56E-01	1.25E-01	1.25E-01
		280.45		29.60	4.15E-03		2.34E-01
		410.94		11.10	2.86E-01		7.57E-01
		711.69		54.10	-7.83E-02		1.55E-01
+	TM-171	66.72		0.14	-6.83E+01	6.50E+01	6.50E+01
+	HF-172	81.75		4.52	-1.70E+00	5.28E-01	1.75E+00
		125.81		11.30	-3.38E-01		5.28E-01
+	LU-172	181.53		20.60	3.32E+00	3.07E+00	5.52E+00
		810.06		16.63	-2.22E+00		9.68E+00
		912.12		15.25	2.63E+01		1.97E+01
		1093.66		62.50	7.85E-01		3.07E+00
+	LU-173	100.72		5.24	6.65E-01	5.58E-01	1.23E+00
		272.11	*	21.20	3.28E-01		5.58E-01
+	HF-175	343.40		84.00	-1.89E-02	1.08E-01	1.08E-01
+	LU-176	88.34		13.30	5.81E-01	7.00E-02	6.35E-01
		201.83		86.00	-2.20E-02		8.13E-02
		306.78		94.00	-5.31E-03		7.00E-02
+	TA-182	67.75		41.20	1.58E-01	2.47E-01	2.47E-01
		1121.30		34.90	2.19E-01		5.27E-01
		1189.05		16.23	-2.07E-01		8.30E-01
		1221.41		26.98	1.26E-01		5.43E-01
		1231.02		11.44	2.25E-01		1.13E+00

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-1.73E-02	2.39E-01	2.80E-01
		468.07		48.10	-4.10E-02		2.39E-01
+	HG-203	279.19		77.30	-5.28E-02	1.29E-01	1.29E-01
+	BI-207	569.67		97.72	5.11E-02	1.01E-01	1.01E-01
		1063.62		74.90	-6.88E-02		1.23E-01
+	TL-208	583.14	*	30.22	6.80E-01	2.75E-01	4.32E-01
		860.37		4.48	1.45E+00		2.46E+00
		2614.66	*	35.85	3.71E-01		2.75E-01
+	BI-210M	262.00		45.00	-3.49E-02	1.38E-01	1.38E-01
		300.00		23.00	-2.94E-01		3.83E-01
+	PB-210	46.50	*	4.25	2.71E+00	2.99E+00	2.99E+00
+	PB-211	404.84		2.90	4.72E-01	2.58E+00	2.58E+00
		831.96		2.90	-1.50E-01		3.15E+00
+	BI-212	727.17		11.80	5.40E-01	9.60E-01	9.60E-01
		1620.62		2.75	-1.10E-01		3.83E+00
+	PB-212	238.63	*	44.60	5.40E-01	3.23E-01	3.23E-01
		300.09	*	3.41	1.51E+00		3.88E+00
+	BI-214	609.31	*	46.30	1.36E+00	3.19E-01	3.19E-01
		1120.29	*	15.10	7.04E-01		1.19E+00
		1764.49	*	15.80	1.24E+00		4.90E-01
		2204.22	*	4.98	1.17E+00		2.42E+00
+	PB-214	295.21	*	19.19	1.43E+00	2.95E-01	6.85E-01
		351.92	*	37.19	1.39E+00		2.95E-01
+	RN-219	401.80		6.50	-6.79E-02	1.16E+00	1.16E+00
+	RA-223	323.87		3.88	-2.82E-01	1.90E+00	1.90E+00
+	RA-224	240.98	*	3.95	2.74E+00	3.62E+00	3.62E+00
+	RA-225	40.00		31.00	8.84E-01	1.70E+00	1.70E+00
+	RA-226	186.21	*	3.28	2.79E+00	2.76E+00	2.76E+00
+	TH-227	50.10		8.40	-8.26E-02	6.48E-01	1.16E+00
		236.00		11.50	-2.43E+00		6.48E-01
		256.20		6.30	-2.84E-01		1.04E+00
+	AC-228	338.32	*	11.40	7.94E-01	4.45E-01	9.29E-01
		911.07	*	27.70	7.80E-01		4.45E-01
		969.11	*	16.60	6.31E-01		7.48E-01
+	TH-230	48.44		16.90	1.43E-01	7.13E-01	7.13E-01
		62.85		4.60	2.85E+00		2.19E+00
		67.67		0.37	1.49E+01		2.32E+01
+	PA-231	283.67		1.60	4.86E-01	3.42E+00	4.45E+00
		302.67		2.30	9.73E-01		3.42E+00
+	TH-231	25.64		14.70	1.03E+01	1.19E+00	9.32E+00
		84.21		6.40	-2.20E+00		1.19E+00
+	PA-233	311.98		38.60	-8.49E-02	3.56E-01	3.56E-01
+	PA-234	131.20		20.40	1.42E-01	3.13E-01	3.13E-01
		733.99		8.80	-7.83E-02		9.38E-01
		946.00		12.00	-5.06E-01		8.42E-01
+	PA-234M	1001.03		0.92	4.29E-01	1.15E+01	1.15E+01
+	TH-234	63.29		3.80	1.14E+00	2.63E+00	2.63E+00

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76		10.50	1.15E-01	6.71E-01	6.71E-01
		163.35		4.70	5.12E-01		1.44E+00
		205.31		4.70	-7.39E-01		1.45E+00
+	NP-237	86.50		12.60	1.02E-01	6.59E-01	6.59E-01
+	NP-239	106.10		22.70	-5.88E+02	9.96E+02	9.96E+02
		228.18		10.70	-9.69E+02		2.28E+03
		277.60		14.10	6.41E+01		1.83E+03
+	AM-241	59.54		35.90	-2.06E-01	2.43E-01	2.43E-01
+	AM-243	74.67	*	66.00	2.49E-01	2.10E-01	2.10E-01
+	CM-243	209.75		3.29	2.87E-02	4.93E-01	2.17E+00
		228.14		10.60	-2.62E-01		6.17E-01
		277.60		14.00	1.73E-02		4.93E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.17E+00	1.17E+00	-4.18E-01	5.43E-01
	NA-22	1274.54		99.94	1.11E-01	1.11E-01	-1.50E-02	4.85E-02
	NA-24	1368.53		99.99	3.15E+12	2.59E+12	0.00E+00	1.36E+12
		2754.09		99.86	2.59E+12		5.75E+11	1.00E+12
	AL-26	1808.65		99.76	7.79E-02	7.79E-02	1.94E-02	3.02E-02
+	K-40	1460.81	*	10.67	9.98E-01	9.98E-01	8.48E+00	4.27E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	9.08E-02	9.08E-02	5.82E-02	4.39E-02
		78.34		96.00	1.12E-01		1.22E-01	5.48E-02
	SC-46	889.25		99.98	1.32E-01	1.32E-01	5.71E-03	5.96E-02

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	1.97E-01	1.32E-01	1.12E-01	9.09E-02
	V-48	983.52		99.98	3.64E-01	3.64E-01	-1.40E-01	1.63E-01
		1312.10		97.50	3.94E-01		7.83E-02	1.73E-01
	CR-51	320.08		9.83	1.33E+00	1.33E+00	-1.02E+00	6.16E-01
	MN-54	834.83		99.97	1.06E-01	1.06E-01	-3.14E-02	4.79E-02
	CO-56	846.75		99.96	1.04E-01	1.04E-01	-3.71E-02	4.54E-02
		1037.75		14.03	8.90E-01		-1.94E-01	3.91E-01
		1238.25		67.00	2.80E-01		1.37E-01	1.27E-01
		1771.40		15.51	7.91E-01		-1.77E-01	3.24E-01
		2598.48		16.90	4.11E-01		-2.42E-01	1.30E-01
	CO-57	122.06		85.51	7.31E-02	7.31E-02	-1.72E-02	3.48E-02
		136.48		10.60	5.67E-01		-5.60E-01	2.69E-01
	CO-58	810.76		99.40	1.16E-01	1.16E-01	-4.02E-02	5.15E-02
	FE-59	1099.22		56.50	2.65E-01	2.65E-01	-2.25E-02	1.16E-01
		1291.56		43.20	3.70E-01		6.58E-03	1.60E-01
	CO-60	1173.22		100.00	1.14E-01	9.66E-02	-4.84E-02	5.03E-02
		1332.49		100.00	9.66E-02		-2.37E-02	4.11E-02
+	ZN-65	1115.52	*	50.75	3.64E-01	3.64E-01	7.52E-02	1.68E-01
	GA-67	93.31		35.70	9.94E+01	9.94E+01	1.94E+02	4.83E+01
		208.95		2.24	1.21E+03		1.59E+02	5.73E+02
		300.22		16.00	2.10E+02		-1.61E+02	9.95E+01
	SE-75	121.11		16.70	4.26E-01	1.13E-01	-1.21E-02	2.03E-01
		136.00		59.20	1.13E-01		5.12E-03	5.35E-02
		264.65		59.80	1.19E-01		2.25E-03	5.53E-02
		279.53		25.20	3.23E-01		-3.48E-02	1.51E-01
		400.65		11.40	7.65E-01		-1.03E-01	3.53E-01
	RB-82	776.52		13.00	1.50E+00	1.50E+00	-3.74E-01	6.72E-01
	RB-83	520.41		46.00	2.36E-01	2.36E-01	7.57E-02	1.09E-01
		529.64		30.30	3.40E-01		5.29E-02	1.56E-01
		552.65		16.40	6.26E-01		-1.26E-02	2.86E-01
+	KR-85	513.99	*	0.43	3.06E+01	3.06E+01	1.31E+01	1.45E+01
+	SR-85	513.99	*	99.27	1.80E-01	1.80E-01	7.70E-02	8.52E-02
	Y-88	898.02		93.40	1.32E-01	1.03E-01	-9.95E-03	5.90E-02
		1836.01		99.38	1.03E-01		1.31E-02	4.09E-02
	NB-93M	16.57		9.43	1.17E+02	1.17E+02	-4.88E+01	5.33E+01
	NB-94	702.63		100.00	1.00E-01	1.00E-01	-3.71E-02	4.57E-02
		871.10		100.00	1.00E-01		7.71E-03	4.49E-02
	NB-95	765.79		99.81	2.37E-01	2.37E-01	1.82E-01	1.11E-01
	NB-95M	235.69		25.00	6.38E+01	6.38E+01	-2.39E+02	3.02E+01
	ZR-95	724.18		43.70	3.53E-01	2.03E-01	2.31E-01	1.63E-01
		756.72		55.30	2.03E-01		-9.50E-02	9.03E-02
	MO-99	181.06		6.20	1.22E+03	7.43E+02	1.01E+03	5.80E+02
		739.58		12.80	7.43E+02		-3.15E+02	3.31E+02
		778.00		4.50	2.62E+03		5.28E+02	1.19E+03
	RU-103	497.08		89.00	1.57E-01	1.57E-01	-3.53E-02	7.23E-02
	RU-106	621.84		9.80	8.51E-01	8.51E-01	-3.49E-01	3.84E-01
	AG-108M	433.93		89.90	9.22E-02	9.22E-02	-1.86E-02	4.28E-02
		614.37		90.40	1.08E-01		1.87E-02	4.96E-02
		722.95		90.50	1.10E-01		-2.86E-02	5.03E-02
+	CD-109	88.03	*	3.72	5.25E+00	5.25E+00	2.67E+00	2.59E+00
	AG-110M	657.75		93.14	1.10E-01	1.10E-01	-1.21E-01	5.04E-02
		677.61		10.53	9.61E-01		1.81E-01	4.38E-01
		706.67		16.46	6.44E-01		1.42E-01	2.93E-01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	5.68E-01	1.10E-01	1.43E-01	2.61E-01
		884.67		71.63	1.58E-01		-5.43E-02	7.11E-02
		1384.27		23.94	4.27E-01		1.08E-01	1.80E-01
	CD-113M	263.70		0.02	2.71E+02	2.71E+02	3.15E+01	1.26E+02
	SN-113	255.12		1.93	4.19E+00	1.14E-01	1.65E+00	1.97E+00
		391.69		64.90	1.14E-01		-3.94E-02	5.21E-02
	TE123M	159.00		84.10	8.90E-02	8.90E-02	3.32E-02	4.23E-02
	SB-124	602.71		97.87	1.46E-01	1.46E-01	3.59E-02	6.75E-02
		645.85		7.26	1.76E+00		2.40E-01	8.02E-01
		722.78		11.10	1.24E+00		-3.22E-01	5.66E-01
		1691.02		49.00	2.10E-01		-2.19E-02	8.14E-02
	I-125	35.49		6.49	4.03E+00	4.03E+00	-6.63E-02	1.92E+00
	SB-125	176.33		6.89	9.68E-01	2.90E-01	-3.61E-02	4.60E-01
		427.89		29.33	2.90E-01		1.96E-02	1.35E-01
		463.38		10.35	9.56E-01		3.23E-01	4.47E-01
		600.56		17.80	5.96E-01		2.21E-01	2.76E-01
		635.90		11.32	8.63E-01		3.43E-01	3.95E-01
	SB-126	414.70		83.30	4.55E-01	4.52E-01	-2.69E-01	2.11E-01
		666.33		99.60	4.97E-01		1.85E-02	2.29E-01
		695.00		99.60	4.52E-01		1.04E-01	2.05E-01
		720.50		53.80	7.88E-01		-1.38E-01	3.55E-01
+	SN-126	87.57	*	37.00	5.07E-01	5.07E-01	2.57E-01	2.50E-01
	SB-127	473.00		25.00	4.99E+01	4.41E+01	-1.41E+01	2.30E+01
		685.20		35.70	4.41E+01		1.31E+01	2.02E+01
		783.80		14.70	1.10E+02		0.00E+00	4.99E+01
	I-129	29.78		57.00	7.03E-01	7.03E-01	3.62E-01	3.37E-01
		33.60		13.20	1.70E+00		-5.98E-01	8.09E-01
		39.58		7.52	1.94E+00		1.01E+00	9.28E-01
	I-131	284.30		6.05	1.32E+01	8.27E-01	2.55E+00	6.19E+00
		364.48		81.20	8.27E-01		-3.05E-02	3.77E-01
		636.97		7.26	1.49E+01		-2.59E-01	6.82E+00
		722.89		1.80	6.17E+01		-1.60E+01	2.81E+01
	TE-132	49.72		13.10	2.89E+02	2.84E+01	-2.05E+01	1.39E+02
		228.16		88.00	2.84E+01		-1.20E+01	1.34E+01
	BA-133	81.00		33.00	2.37E-01	1.36E-01	-4.82E-01	1.14E-01
		302.84		17.80	4.45E-01		1.26E-01	2.09E-01
		356.01		60.00	1.36E-01		6.41E-03	6.37E-02
	I-133	529.87		86.30	4.89E+08	4.89E+08	7.60E+07	2.24E+08
	XE-133	81.00		38.00	8.23E+00	8.23E+00	-1.68E+01	3.97E+00
	CS-134	563.23		8.38	1.13E+00	1.12E-01	3.24E-01	5.19E-01
		569.32		15.43	6.58E-01		3.90E-01	3.05E-01
		604.70		97.60	1.29E-01		3.17E-02	6.04E-02
		795.84		85.40	1.12E-01		7.07E-02	5.01E-02
		801.93		8.73	1.19E+00		-9.36E-02	5.39E-01
	CS-135	268.24		16.00	4.39E-01	4.39E-01	1.21E-02	2.06E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.89E+00	3.44E-01	3.86E+00	1.85E+00
		163.89		4.61	6.40E+00		2.28E+00	3.05E+00
		176.55		13.56	2.11E+00		-7.85E-02	1.00E+00
		273.65		12.66	2.52E+00		-4.93E-01	1.19E+00
		340.57		48.50	7.81E-01		3.69E-01	3.68E-01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	818.50		99.70	3.44E-01	3.44E-01	-1.87E-01	1.51E-01
		1048.07		79.60	5.52E-01		-2.40E-02	2.43E-01
		1235.34		19.70	3.01E+00		-6.89E-02	1.36E+00
+	CS-137	661.65	*	85.12	1.09E-01	1.09E-01	6.78E-02	4.99E-02
	LA-138	788.74		34.00	2.94E-01	1.11E-01	5.63E-02	1.33E-01
		1435.80		66.00	1.11E-01		1.27E-02	4.39E-02
	CE-139	165.85		80.35	9.66E-02	9.66E-02	6.71E-02	4.60E-02
	BA-140	162.64		6.70	4.55E+00	1.57E+00	-1.29E+00	2.17E+00
		304.84		4.50	6.78E+00		-1.00E+00	3.15E+00
		423.70		3.20	1.14E+01		-6.44E+00	5.27E+00
		437.55		2.00	1.86E+01		-3.83E+00	8.64E+00
		537.32		25.00	1.57E+00		8.13E-01	7.19E-01
	LA-140	328.77		20.50	1.81E+00	4.28E-01	7.78E-01	8.51E-01
		487.03		45.50	8.32E-01		-3.10E-01	3.83E-01
		815.85		23.50	1.67E+00		-4.52E-01	7.41E-01
		1596.49		95.49	4.28E-01		-1.14E-01	1.76E-01
	CE-141	145.44		48.40	2.68E-01	2.68E-01	7.85E-02	1.29E-01
	CE-143	57.36		11.80	9.63E+05	3.48E+05	-2.83E+05	4.63E+05
		293.26		42.00	3.48E+05		5.99E+05	1.67E+05
		664.55		5.20	3.02E+06		6.90E+05	1.41E+06
	CE-144	133.54		10.80	5.85E-01	5.85E-01	2.15E-01	2.78E-01
	PM-144	476.78		42.00	2.10E-01	9.08E-02	-1.50E-02	9.68E-02
		618.01		98.60	9.08E-02		-1.76E-03	4.12E-02
		696.49		99.49	1.11E-01		4.89E-02	5.12E-02
	PM-145	36.85		21.70	7.88E-01	4.05E-01	1.86E-01	3.76E-01
		37.36		39.70	4.05E-01		-3.22E-01	1.93E-01
		42.30		15.10	8.16E-01		3.54E-01	3.90E-01
		72.40		2.31	3.87E+00		-3.74E+00	1.88E+00
	PM-146	453.90		39.94	2.15E-01	2.15E-01	-2.60E-02	9.95E-02
		735.90		14.01	6.19E-01		-1.91E-03	2.77E-01
		747.13		13.10	7.16E-01		2.06E-01	3.23E-01
	ND-147	91.11		28.90	1.85E+00	1.85E+00	-2.36E+00	8.97E-01
		531.02		13.10	3.46E+00		-2.17E+00	1.57E+00
	PM-149	285.90		3.10	1.44E+04	1.44E+04	-2.46E+03	6.72E+03
	EU-152	121.78		20.50	2.85E-01	2.85E-01	-6.70E-02	1.36E-01
		244.69		5.40	1.47E+00		2.08E-01	6.96E-01
		344.27		19.13	3.62E-01		-7.84E-02	1.68E-01
		778.89		9.20	1.17E+00		9.18E-01	5.34E-01
		964.01		10.40	1.20E+00		5.25E-01	5.45E-01
		1085.78		7.22	1.30E+00		-3.28E-01	5.65E-01
		1112.02		9.60	9.95E-01		-1.80E-01	4.33E-01
		1407.95		14.94	9.92E-01		7.20E-01	4.46E-01
	GD-153	97.43		31.30	2.14E-01	2.14E-01	-7.37E-02	1.02E-01
		103.18		22.20	2.96E-01		4.13E-02	1.42E-01
	EU-154	123.07		40.50	1.47E-01	1.47E-01	2.44E-02	7.03E-02
		723.30		19.70	5.10E-01		-1.32E-01	2.32E-01
		873.19		11.50	8.76E-01		5.02E-01	3.93E-01
		996.32		10.30	9.88E-01		3.41E-01	4.38E-01
		1004.76		17.90	6.40E-01		1.67E-01	2.88E-01
		1274.45		35.50	3.08E-01		-4.16E-02	1.35E-01
	EU-155	86.50		30.90	2.72E-01	2.72E-01	4.19E-02	1.32E-01
		105.30		20.70	2.95E-01		-1.74E-01	1.41E-01
	EU-156	811.77		10.40	3.25E+00	3.25E+00	3.10E-01	1.46E+00

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	5.88E+00	3.25E+00	-1.02E-02	2.62E+00
		1230.71		8.90	4.38E+00		8.73E-01	1.92E+00
	HO-166M	184.41		72.60	1.25E-01	1.25E-01	1.56E-01	6.00E-02
		280.45		29.60	2.34E-01		4.15E-03	1.10E-01
		410.94		11.10	7.57E-01		2.86E-01	3.53E-01
		711.69		54.10	1.55E-01		-7.83E-02	6.92E-02
	TM-171	66.72		0.14	6.50E+01	6.50E+01	-6.83E+01	3.14E+01
	HF-172	81.75		4.52	1.75E+00	5.28E-01	-1.70E+00	8.44E-01
		125.81		11.30	5.28E-01		-3.38E-01	2.51E-01
	LU-172	181.53		20.60	5.52E+00	3.07E+00	3.32E+00	2.61E+00
		810.06		16.63	9.68E+00		-2.22E+00	4.32E+00
		912.12		15.25	1.97E+01		2.63E+01	9.22E+00
		1093.66		62.50	3.07E+00		7.85E-01	1.36E+00
+	LU-173	100.72		5.24	1.23E+00	5.58E-01	6.65E-01	5.90E-01
		272.11	*	21.20	5.58E-01		3.28E-01	2.69E-01
	HF-175	343.40		84.00	1.08E-01	1.08E-01	-1.89E-02	5.01E-02
	LU-176	88.34		13.30	6.35E-01	7.00E-02	5.81E-01	3.08E-01
		201.83		86.00	8.13E-02		-2.20E-02	3.86E-02
		306.78		94.00	7.00E-02		-5.31E-03	3.25E-02
	TA-182	67.75		41.20	2.47E-01	2.47E-01	1.58E-01	1.19E-01
		1121.30		34.90	5.27E-01		2.19E-01	2.42E-01
		1189.05		16.23	8.30E-01		-2.07E-01	3.67E-01
		1221.41		26.98	5.43E-01		1.26E-01	2.42E-01
		1231.02		11.44	1.13E+00		2.25E-01	4.94E-01
	IR-192	308.46		29.68	2.80E-01	2.39E-01	-1.73E-02	1.30E-01
		468.07		48.10	2.39E-01		-4.10E-02	1.11E-01
	HG-203	279.19		77.30	1.29E-01	1.29E-01	-5.28E-02	6.04E-02
	BI-207	569.67		97.72	1.01E-01	1.01E-01	5.11E-02	4.66E-02
		1063.62		74.90	1.23E-01		-6.88E-02	5.34E-02
+	TL-208	583.14	*	30.22	4.32E-01	2.75E-01	6.80E-01	2.03E-01
		860.37		4.48	2.46E+00		1.45E+00	1.12E+00
		2614.66	*	35.85	2.75E-01		3.71E-01	1.10E-01
	BI-210M	262.00		45.00	1.38E-01	1.38E-01	-3.49E-02	6.41E-02
		300.00		23.00	3.83E-01		-2.94E-01	1.82E-01
+	PB-210	46.50	*	4.25	2.99E+00	2.99E+00	2.71E+00	1.44E+00
	PB-211	404.84		2.90	2.58E+00	2.58E+00	4.72E-01	1.19E+00
		831.96		2.90	3.15E+00		-1.50E-01	1.40E+00
	BI-212	727.17		11.80	9.60E-01	9.60E-01	5.40E-01	4.43E-01
		1620.62		2.75	3.83E+00		-1.10E-01	1.62E+00
+	PB-212	238.63	*	44.60	3.23E-01	3.23E-01	5.40E-01	1.57E-01
		300.09	*	3.41	3.88E+00		1.51E+00	1.87E+00
+	BI-214	609.31	*	46.30	3.19E-01	3.19E-01	1.36E+00	1.51E-01
		1120.29	*	15.10	1.19E+00		7.04E-01	5.53E-01
		1764.49	*	15.80	4.90E-01		1.24E+00	1.91E-01
		2204.22	*	4.98	2.42E+00		1.17E+00	1.02E+00
+	PB-214	295.21	*	19.19	6.85E-01	2.95E-01	1.43E+00	3.30E-01
		351.92	*	37.19	2.95E-01		1.39E+00	1.40E-01
	RN-219	401.80		6.50	1.16E+00	1.16E+00	-6.79E-02	5.39E-01
	RA-223	323.87		3.88	1.90E+00	1.90E+00	-2.82E-01	8.85E-01
+	RA-224	240.98	*	3.95	3.62E+00	3.62E+00	2.74E+00	1.76E+00
	RA-225	40.00		31.00	1.70E+00	1.70E+00	8.84E-01	8.12E-01
+	RA-226	186.21	*	3.28	2.76E+00	2.76E+00	2.79E+00	1.33E+00
	TH-227	50.10		8.40	1.16E+00	6.48E-01	-8.26E-02	5.59E-01

Analysis Report for 1507047-05

FEEBRISID-3 041-043

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00		11.50	6.48E-01	6.48E-01	-2.43E+00	3.07E-01
		256.20		6.30	1.04E+00		-2.84E-01	4.85E-01
+	AC-228	338.32	*	11.40	9.29E-01	4.45E-01	7.94E-01	4.43E-01
		911.07	*	27.70	4.45E-01		7.80E-01	2.03E-01
		969.11	*	16.60	7.48E-01		6.31E-01	3.41E-01
	TH-230	48.44		16.90	7.13E-01	7.13E-01	1.43E-01	3.44E-01
		62.85		4.60	2.19E+00		2.85E+00	1.06E+00
		67.67		0.37	2.32E+01		1.49E+01	1.12E+01
	PA-231	283.67		1.60	4.45E+00	3.42E+00	4.86E-01	2.09E+00
		302.67		2.30	3.42E+00		9.73E-01	1.61E+00
	TH-231	25.64		14.70	9.32E+00	1.19E+00	1.03E+01	4.54E+00
		84.21		6.40	1.19E+00		-2.20E+00	5.76E-01
	PA-233	311.98		38.60	3.56E-01	3.56E-01	-8.49E-02	1.66E-01
	PA-234	131.20		20.40	3.13E-01	3.13E-01	1.42E-01	1.49E-01
		733.99		8.80	9.38E-01		-7.83E-02	4.18E-01
		946.00		12.00	8.42E-01		-5.06E-01	3.76E-01
	PA-234M	1001.03		0.92	1.15E+01	1.15E+01	4.29E-01	5.12E+00
	TH-234	63.29		3.80	2.63E+00	2.63E+00	1.14E+00	1.28E+00
	U-235	143.76		10.50	6.71E-01	6.71E-01	1.15E-01	3.21E-01
		163.35		4.70	1.44E+00		5.12E-01	6.85E-01
		205.31		4.70	1.45E+00		-7.39E-01	6.86E-01
	NP-237	86.50		12.60	6.59E-01	6.59E-01	1.02E-01	3.19E-01
	NP-239	106.10		22.70	9.96E+02	9.96E+02	-5.88E+02	4.76E+02
		228.18		10.70	2.28E+03		-9.69E+02	1.08E+03
		277.60		14.10	1.83E+03		6.41E+01	8.56E+02
	AM-241	59.54		35.90	2.43E-01	2.43E-01	-2.06E-01	1.17E-01
+	AM-243	74.67	*	66.00	2.10E-01	2.10E-01	2.49E-01	1.03E-01
	CM-243	209.75		3.29	2.17E+00	4.93E-01	2.87E-02	1.03E+00
		228.14		10.60	6.17E-01		-2.62E-01	2.91E-01
		277.60		14.00	4.93E-01		1.73E-02	2.31E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-05

FEEBRISID-3 041-043

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-3 041-043

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	38	51	79	191	286	340
25:	51	41	33	28	41	37	40	28
33:	25	28	31	26	26	31	31	25
41:	41	31	25	23	35	51	104	48
49:	28	38	41	33	44	51	43	31
57:	44	52	38	44	48	50	69	124
65:	53	47	69	63	57	40	40	32
73:	46	64	140	130	126	207	64	50
81:	58	57	33	59	68	33	64	97
89:	46	59	54	57	162	102	42	31
97:	36	38	34	28	35	36	35	22
105:	36	30	27	41	41	31	26	27
113:	30	24	24	24	29	38	35	20
121:	21	24	46	23	25	30	23	29
129:	24	49	26	30	21	28	26	24
137:	19	20	24	36	30	22	32	46
145:	40	35	35	23	32	19	14	27
153:	27	27	38	27	20	28	19	34
161:	27	23	29	33	27	29	22	27
169:	14	26	23	33	19	24	20	29
177:	28	20	24	25	22	31	18	12
185:	43	82	71	22	22	22	24	22
193:	25	18	24	26	23	22	29	26
201:	32	16	22	22	25	26	19	17
209:	30	30	21	19	26	15	14	17
217:	15	20	14	14	20	24	18	19
225:	28	19	23	13	14	18	23	17
233:	20	15	18	22	18	37	132	67
241:	21	62	47	17	19	14	21	16
249:	11	18	11	10	16	15	17	17
257:	17	8	21	18	12	14	10	10
265:	12	18	10	9	13	19	30	16
273:	18	23	13	16	13	18	17	10
281:	9	20	18	15	13	11	21	13
289:	14	14	10	10	6	10	76	85
297:	22	16	25	24	29	18	17	11
305:	12	14	7	14	11	11	11	11
313:	9	17	13	16	14	9	12	11
321:	10	11	17	17	13	10	12	23
329:	20	14	14	6	21	14	9	14
337:	15	23	38	13	16	13	10	14
345:	9	8	13	8	14	18	43	153
353:	105	19	11	12	19	12	12	14
361:	16	9	9	5	3	10	10	11

369:	13	16	18	8	13	10	9	5

Sample Title: FEEBRISID-3 041-043

Channel								
377:	6	8	5	13	10	6	13	9
385:	11	15	11	9	9	6	11	6
393:	6	7	7	12	11	12	6	11
401:	9	11	13	8	13	11	5	4
409:	12	14	8	7	10	8	9	3
417:	9	9	11	11	11	5	12	6
425:	6	6	8	13	8	9	8	8
433:	6	11	10	6	7	10	9	4
441:	8	9	9	11	7	14	9	11
449:	9	8	9	8	10	8	6	10
457:	4	8	9	9	8	12	13	12
465:	7	10	9	6	9	7	9	4
473:	9	7	9	2	10	7	9	5
481:	9	7	13	5	9	5	8	10
489:	4	6	7	8	4	5	10	3
497:	9	7	9	5	11	8	6	4
505:	7	3	11	9	12	26	56	38
513:	15	15	5	6	4	8	7	4
521:	5	10	6	6	3	7	9	4
529:	5	6	4	8	4	4	6	9
537:	9	6	6	4	3	3	4	4
545:	5	6	3	5	7	8	7	3
553:	7	4	1	7	4	6	3	10
561:	9	8	6	5	3	5	5	6
569:	6	9	9	13	4	6	5	5
577:	5	3	6	5	3	14	35	36
585:	10	11	6	3	8	10	4	6
593:	7	3	8	6	5	7	6	4
601:	8	11	10	8	7	5	8	27
609:	84	104	31	8	9	7	5	7
617:	6	3	3	2	7	3	5	5
625:	3	6	7	7	3	1	4	5
633:	4	4	4	4	10	8	7	5
641:	2	13	4	9	2	3	7	9
649:	3	4	1	1	7	7	6	4
657:	8	2	6	5	7	17	9	4
665:	7	11	7	6	1	9	3	6
673:	3	2	2	4	4	7	5	4
681:	9	5	7	5	4	7	6	8
689:	5	1	3	1	3	2	4	9
697:	6	9	8	5	4	8	4	6
705:	6	5	5	7	2	5	3	3
713:	4	5	3	5	5	3	2	2
721:	3	4	7	7	5	8	14	7
729:	4	2	2	4	4	4	3	5
737:	1	4	4	4	4	1	5	7
745:	4	2	5	3	4	4	3	3
753:	6	2	2	6	2	5	3	2
761:	5	5	7	3	3	10	12	11
769:	18	3	6	3	7	1	1	5
777:	4	5	4	6	9	4	4	1
785:	5	5	7	3	7	4	3	2
793:	1	7	4	3	7	1	3	1

801:	0	6	10	3	8	4	4	3

Sample Title: FEEBRISID-3 041-043

Channel								
809:	4	3	4	1	4	3	7	4
817:	2	1	0	5	4	1	2	5
825:	1	7	3	0	2	4	3	3
833:	4	6	1	5	5	4	7	6
841:	1	4	6	3	3	1	2	2
849:	5	1	3	2	5	4	2	3
857:	3	3	3	8	7	4	5	1
865:	3	7	2	2	3	4	6	2
873:	7	2	2	3	1	1	4	5
881:	4	5	3	1	6	6	3	4
889:	8	4	3	0	6	2	0	2
897:	3	4	6	6	5	3	5	0
905:	8	0	3	1	4	10	26	23
913:	3	4	3	2	3	3	6	3
921:	4	2	2	4	1	6	3	1
929:	1	1	2	3	3	2	4	2
937:	4	4	5	1	4	5	6	3
945:	3	2	3	2	4	7	5	3
953:	2	7	2	2	6	3	3	0
961:	4	4	5	7	7	5	3	6
969:	12	15	3	5	2	1	3	3
977:	2	4	5	5	6	3	3	5
985:	2	6	0	4	6	0	2	1
993:	6	5	0	1	1	6	2	3
1001:	1	6	3	2	2	7	2	5
1009:	2	5	2	2	3	5	1	5
1017:	4	5	2	5	7	3	4	4
1025:	3	5	1	2	3	3	4	0
1033:	3	3	2	1	5	2	2	3
1041:	3	5	2	4	2	3	2	4
1049:	2	3	3	2	7	5	6	0
1057:	2	3	5	4	2	1	1	2
1065:	2	3	4	3	3	4	5	3
1073:	1	2	2	3	1	3	4	3
1081:	3	4	2	4	2	2	0	3
1089:	2	2	3	4	5	3	1	2
1097:	2	3	1	2	4	2	3	3
1105:	1	3	5	4	1	2	2	1
1113:	6	1	2	7	4	4	3	14
1121:	12	3	5	3	3	4	5	4
1129:	1	2	0	3	4	1	3	0
1137:	1	3	2	4	1	3	2	0
1145:	4	5	4	4	4	2	2	4
1153:	1	3	6	5	2	3	5	2
1161:	7	2	1	1	4	5	3	3
1169:	3	1	3	4	2	3	3	4
1177:	8	3	4	3	1	2	1	2
1185:	7	1	3	4	3	4	1	4
1193:	5	1	3	3	5	5	3	6
1201:	2	3	2	2	4	3	3	6
1209:	3	4	3	2	5	0	2	4
1217:	6	4	3	3	2	5	1	5
1225:	1	0	3	1	1	4	5	3

1233:	1	2	2	5	5	10	5	4

Sample Title: FEEBRISID-3 041-043

Channel								
1241:	2	4	3	7	2	4	2	0
1249:	7	2	2	4	4	5	2	0
1257:	0	1	3	2	2	2	3	6
1265:	2	2	2	4	4	2	4	2
1273:	1	3	1	3	2	3	2	1
1281:	5	2	5	2	1	2	0	2
1289:	3	3	1	2	2	1	2	3
1297:	4	2	1	2	2	3	2	4
1305:	6	4	0	3	3	4	2	1
1313:	3	1	3	3	1	0	3	1
1321:	0	2	0	0	1	2	3	2
1329:	1	2	3	2	0	0	3	2
1337:	2	0	2	2	1	2	1	4
1345:	2	1	1	3	1	4	2	1
1353:	0	2	0	3	0	2	0	1
1361:	1	1	2	2	0	4	1	2
1369:	0	5	2	2	2	2	2	2
1377:	2	6	3	1	0	0	1	2
1385:	2	2	3	1	2	1	1	0
1393:	0	2	0	1	2	0	0	1
1401:	1	2	3	1	4	4	3	8
1409:	4	2	2	1	0	1	0	0
1417:	1	1	0	1	1	2	1	1
1425:	1	3	1	1	2	1	0	1
1433:	1	1	0	0	0	2	1	1
1441:	0	0	2	1	1	2	1	2
1449:	2	0	3	1	0	1	0	1
1457:	2	1	5	39	85	30	5	3
1465:	0	1	2	0	2	1	0	0
1473:	2	1	2	1	1	1	1	3
1481:	3	0	0	2	1	2	4	1
1489:	2	0	2	2	0	0	0	4
1497:	1	2	1	0	3	1	1	1
1505:	0	1	3	2	9	1	0	1
1513:	2	1	1	2	0	0	0	2
1521:	2	0	0	1	2	1	1	1
1529:	0	0	0	0	1	1	2	0
1537:	1	1	3	3	4	1	1	2
1545:	2	1	1	2	1	2	0	0
1553:	1	0	2	0	2	0	0	2
1561:	0	3	0	0	0	1	0	1
1569:	2	1	1	1	1	0	1	1
1577:	1	2	1	0	2	0	3	0
1585:	1	0	2	3	1	0	1	3
1593:	4	2	0	0	0	1	0	2
1601:	1	2	1	0	1	1	0	2
1609:	1	0	0	1	1	2	1	2
1617:	2	1	2	0	2	2	1	1
1625:	2	0	0	0	1	2	1	1
1633:	2	1	0	0	0	1	0	1
1641:	0	1	2	0	0	1	1	1
1649:	0	0	0	1	0	2	0	0
1657:	0	1	1	2	1	0	2	1

1665:	1	2	2	0	1	0	1	0

Sample Title: FEEBRISID-3 041-043

Channel								
1673:	1	0	1	2	1	1	1	1
1681:	0	3	0	2	0	0	0	0
1689:	2	1	1	0	0	0	1	1
1697:	1	0	0	1	0	0	0	0
1705:	1	0	0	2	0	0	1	0
1713:	3	0	0	2	3	3	1	1
1721:	2	0	0	0	0	0	0	1
1729:	1	0	1	0	2	1	0	0
1737:	0	0	0	1	1	2	0	1
1745:	1	1	0	0	1	1	2	3
1753:	1	0	0	1	0	0	1	0
1761:	0	3	9	6	9	3	4	0
1769:	1	2	0	0	3	1	1	2
1777:	1	0	0	0	0	1	1	2
1785:	0	0	0	0	1	0	0	0
1793:	1	1	2	2	0	1	1	1
1801:	2	1	1	0	2	0	0	1
1809:	0	1	0	0	0	2	1	1
1817:	2	0	2	0	0	1	0	0
1825:	0	0	0	0	0	0	0	3
1833:	1	1	0	0	0	1	2	0
1841:	0	0	0	0	0	2	2	2
1849:	1	1	0	2	0	0	0	2
1857:	1	0	0	1	1	1	1	0
1865:	0	2	2	0	0	0	1	0
1873:	0	0	1	0	0	0	1	0
1881:	2	1	1	3	1	2	0	0
1889:	2	3	2	1	3	3	0	0
1897:	0	1	0	2	0	1	0	1
1905:	0	0	2	0	1	2	0	0
1913:	3	0	0	0	0	1	0	3
1921:	0	0	0	0	0	0	1	1
1929:	0	0	0	0	0	1	0	0
1937:	1	2	0	1	0	2	1	0
1945:	2	1	1	0	0	2	0	0
1953:	0	1	0	1	0	1	2	0
1961:	0	0	2	1	1	3	2	0
1969:	0	1	1	0	0	0	0	1
1977:	1	0	0	0	0	0	0	1
1985:	2	0	1	0	2	0	1	0
1993:	0	1	0	1	1	1	0	0
2001:	1	0	0	1	0	1	1	1
2009:	0	0	0	1	2	1	1	1
2017:	2	0	2	1	0	0	1	0
2025:	0	0	0	0	0	0	0	0
2033:	1	0	1	1	2	0	0	1
2041:	0	0	2	1	0	1	0	1
2049:	1	3	0	0	0	1	2	2
2057:	2	0	0	2	0	1	0	0
2065:	0	0	0	0	0	0	0	0
2073:	1	0	0	0	1	1	1	0
2081:	0	1	1	0	1	0	2	0
2089:	0	0	2	0	1	0	1	1

2097:	0	1	1	1	0	0	1	1

Sample Title: FEEBRISID-3 041-043

Channel								
2105:	0	0	2	1	0	0	0	0
2113:	0	1	1	1	0	1	0	0
2121:	0	1	0	0	0	1	0	0
2129:	0	0	0	0	0	0	0	2
2137:	1	0	0	1	0	1	2	0
2145:	0	0	1	1	1	0	1	1
2153:	0	0	0	1	1	0	2	0
2161:	0	0	1	0	0	1	0	0
2169:	0	0	0	0	0	0	0	1
2177:	0	0	0	0	1	1	1	0
2185:	0	0	0	2	1	0	2	0
2193:	0	0	0	0	0	3	0	0
2201:	0	4	5	4	0	1	1	2
2209:	0	1	1	0	1	0	1	0
2217:	0	0	0	0	0	0	1	1
2225:	0	0	1	2	0	1	1	0
2233:	0	0	0	0	0	0	0	3
2241:	1	1	1	1	0	0	1	0
2249:	1	0	2	2	0	2	0	0
2257:	0	1	4	0	2	1	1	0
2265:	0	0	0	0	0	0	2	3
2273:	0	1	0	1	0	0	0	0
2281:	0	1	0	2	2	0	0	1
2289:	1	0	1	0	0	0	0	0
2297:	0	1	2	0	0	1	1	0
2305:	0	0	0	1	0	0	0	0
2313:	2	0	1	0	1	0	1	0
2321:	0	2	0	0	1	0	0	0
2329:	0	0	0	2	2	0	0	1
2337:	0	0	2	1	1	1	0	0
2345:	0	1	0	0	1	1	0	0
2353:	1	2	0	0	0	2	0	0
2361:	0	0	1	1	1	0	0	1
2369:	1	1	0	0	0	0	0	0
2377:	1	1	0	0	1	0	0	1
2385:	0	0	2	0	1	0	0	1
2393:	0	1	0	1	1	2	0	0
2401:	0	0	2	1	0	1	1	1
2409:	1	0	1	0	0	0	1	1
2417:	1	0	0	0	0	1	0	1
2425:	0	0	0	1	2	1	0	1
2433:	0	1	0	1	0	0	0	0
2441:	1	1	0	0	0	1	3	1
2449:	0	1	2	0	2	2	2	0
2457:	1	0	1	1	0	1	0	0
2465:	1	1	1	0	0	0	0	0
2473:	0	0	0	0	0	2	0	0
2481:	0	0	1	0	0	0	0	0
2489:	1	0	0	2	0	0	0	0
2497:	0	1	2	0	1	0	1	0
2505:	1	0	1	0	0	0	1	1
2513:	0	0	1	1	0	0	0	1
2521:	0	0	0	2	0	0	0	0

2529:	2	0	1	0	0	0	0	0

Sample Title: FEEBRISID-3 041-043

Channel								
2537:	0	1	0	1	0	0	0	0
2545:	0	0	1	1	0	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	0	1	0	0	1	0	1
2569:	0	0	0	0	0	0	1	0
2577:	0	0	0	0	0	0	0	0
2585:	0	0	0	2	0	0	0	0
2593:	0	0	1	0	0	0	0	0
2601:	0	0	2	0	0	1	0	0
2609:	0	0	1	2	6	7	6	2
2617:	0	1	1	0	0	0	0	1
2625:	0	0	0	1	0	0	1	0
2633:	0	0	0	1	0	0	0	0
2641:	1	0	1	2	0	0	0	1
2649:	0	0	1	1	0	0	0	0
2657:	0	1	1	0	0	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	2	0	0	0	0	0	1	1
2681:	0	1	1	0	0	2	0	0
2689:	1	0	0	0	0	0	0	0
2697:	1	0	0	0	0	0	0	0
2705:	0	0	1	1	0	0	2	1
2713:	0	0	0	1	0	0	0	0
2721:	0	0	0	0	1	0	0	1
2729:	0	1	0	0	0	0	0	0
2737:	1	0	0	0	0	1	0	1
2745:	0	0	0	0	0	0	1	0
2753:	0	1	1	1	0	0	0	1
2761:	0	0	0	1	0	1	0	0
2769:	0	0	0	0	0	0	1	0
2777:	0	0	0	0	0	2	0	0
2785:	0	1	0	0	1	0	1	1
2793:	0	0	0	0	2	1	0	1
2801:	0	0	2	0	0	0	0	0
2809:	0	0	1	0	0	0	0	0
2817:	0	0	1	0	1	0	0	0
2825:	0	0	0	0	2	0	1	0
2833:	0	0	0	0	1	1	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	1	0	0	0	0	0
2857:	0	1	1	0	0	1	0	0
2865:	0	0	0	0	0	0	0	1
2873:	0	0	0	0	0	0	0	0
2881:	0	1	0	0	0	0	0	0
2889:	1	0	1	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	1	0	0	0	0	0	0	0
2913:	0	0	1	0	0	1	0	0
2921:	1	0	0	0	0	0	1	0
2929:	0	0	0	0	0	0	0	0
2937:	1	0	0	0	0	0	0	0
2945:	1	0	0	0	1	0	0	1
2953:	0	0	1	0	0	1	1	0

2961:	0	0	1	0	1	0	0	1

Sample Title: FEEBRISID-3 041-043

Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	1	0	1	0	0
2985:	0	0	0	1	0	0	0	0
2993:	0	0	0	1	0	0	0	0
3001:	1	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	1	0
3017:	0	1	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	1	0	0	0	1	0	0	0
3041:	2	0	0	0	0	0	0	0
3049:	0	0	0	0	1	0	0	0
3057:	0	0	0	1	0	1	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	1	0	1	1	0	1	0
3081:	0	1	0	1	0	0	0	1
3089:	0	0	0	0	0	0	0	0
3097:	1	0	0	0	0	0	0	0
3105:	0	2	0	0	1	0	0	0
3113:	0	0	0	0	2	0	0	0
3121:	0	1	0	0	0	2	0	0
3129:	0	1	1	0	0	0	0	0
3137:	1	0	0	0	1	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	1	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	1	0
3169:	0	0	0	0	0	1	0	0
3177:	0	0	1	0	0	0	0	0
3185:	0	0	0	0	1	0	0	0
3193:	1	2	1	0	1	0	1	0
3201:	0	0	0	0	0	0	0	0
3209:	1	1	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	1
3233:	1	0	1	0	0	1	0	0
3241:	0	0	0	1	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	1	0	0	0	0	0	0
3265:	0	0	0	0	0	0	1	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	1	0
3297:	1	0	0	0	0	0	0	0
3305:	1	0	0	0	1	0	0	0
3313:	0	0	2	1	2	0	0	0
3321:	1	0	1	0	1	0	0	0
3329:	1	0	0	0	0	0	0	0
3337:	1	0	0	0	0	0	0	0
3345:	0	0	0	1	0	0	0	0
3353:	0	0	0	0	2	0	0	1
3361:	0	0	0	0	0	1	0	0
3369:	0	0	0	1	1	0	0	0
3377:	1	0	0	0	0	0	0	0
3385:	1	1	0	0	0	0	0	0

3393:	1	0	0	0	0	0	0	1

Sample Title: FEEBRISID-3 041-043

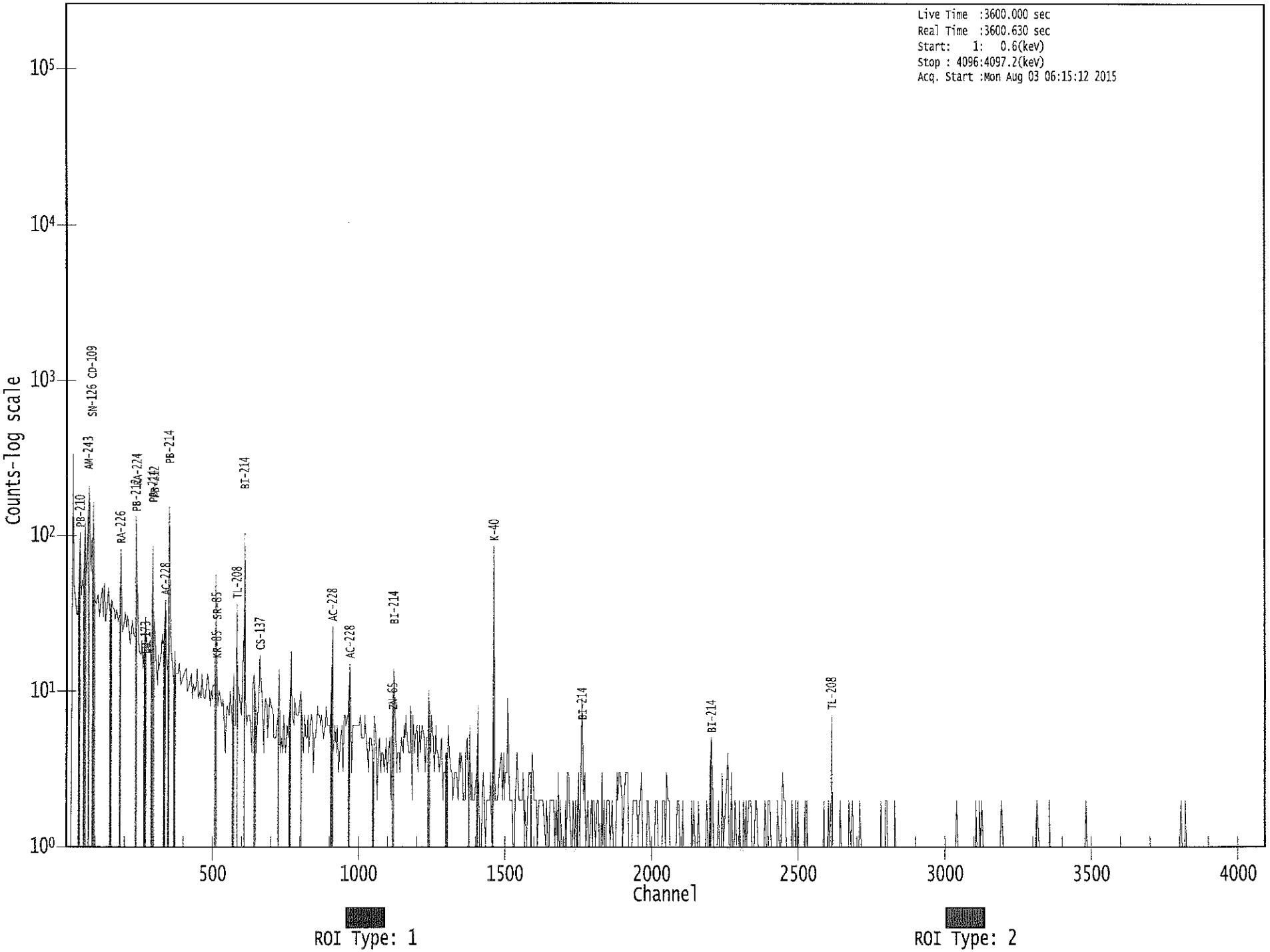
Channel								
3401:	0	0	0	0	1	0	1	0
3409:	0	1	0	0	0	0	0	0
3417:	0	0	0	0	1	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	1	0	0	0	0	0	1	0
3441:	0	1	0	1	0	0	0	0
3449:	0	0	0	0	0	0	1	0
3457:	0	1	1	0	0	0	0	0
3465:	0	0	1	0	0	0	0	1
3473:	0	0	0	0	0	1	0	0
3481:	0	0	2	0	1	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	1
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	1	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	1	0	1	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	1	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	1	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	1	0	0	0
3665:	1	1	0	0	0	0	1	0
3673:	1	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	1	0	0	0
3697:	0	0	0	0	1	0	0	0
3705:	0	0	1	0	0	0	0	0
3713:	0	0	1	1	0	0	0	0
3721:	0	0	0	1	0	0	0	1
3729:	1	0	0	0	0	0	0	0
3737:	1	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	1	0
3753:	0	0	1	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	1	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	1	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	1	0	0	0	2	0	1
3809:	0	1	0	0	0	0	0	0
3817:	0	0	0	2	0	1	0	1

3825:	0	0	0	0	1	0	0	0

Sample Title: FEEBRISID-3 041-043

Channel								
3833:	0	0	0	1	0	0	0	0
3841:	1	0	0	0	0	0	1	0
3849:	0	0	0	1	0	0	0	0
3857:	1	0	0	0	0	0	1	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	1	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	1	0	1	0	1
3897:	0	0	0	1	0	0	0	1
3905:	0	0	0	0	0	0	1	1
3913:	0	0	1	0	1	1	0	0
3921:	0	0	1	0	0	0	0	0
3929:	0	0	1	1	0	0	0	0
3937:	0	0	0	0	0	0	0	1
3945:	0	0	0	0	0	0	0	0
3953:	0	1	0	0	0	0	0	0
3961:	0	0	0	1	0	0	0	0
3969:	0	0	0	0	1	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	1	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	1	0	0	1	0	1	0
4009:	1	0	0	0	0	0	0	0
4017:	0	1	0	0	0	0	0	0
4025:	0	0	0	0	0	0	1	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	1	0	1	0
4049:	0	0	0	0	0	0	0	1
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	1	0	0	1	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025449.CNF



Apex-Gamma

Analysis Report for 1507047-06
DUPLICATE 2

8/17

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-06
Sample Description	: DUPLICATE 2
Sample Type	: SOIL
Sample Size	: 2.177E+02 grams
Facility	: Countroom
Sample Taken On	: 7/6/2015 7:52:12AM
Acquisition Started	: 8/3/2015 6:15:28AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25450

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

: 00507

Analysis Report for 1507047-06

DUPLICATE 2

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 7:15:34AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	50.12	50.23	0.0000	0.00
2	76.16	76.25	0.0000	0.00
3	92.88	92.96	0.0000	0.00
4	133.96	134.02	0.0000	0.00
5	238.96	238.96	0.0000	0.00
6	241.95	241.94	0.0000	0.00
7	294.88	294.85	0.0000	0.00
8	352.10	352.03	0.0000	0.00
9	575.23	575.05	0.0000	0.00
10	583.46	583.28	0.0000	0.00
11	609.55	609.36	0.0000	0.00
12	616.20	616.00	0.0000	0.00
13	657.21	657.00	0.0000	0.00
14	665.22	665.00	0.0000	0.00
15	726.21	725.96	0.0000	0.00
16	831.55	831.26	0.0000	0.00
17	997.45	997.09	0.0000	0.00
18	1057.49	1057.11	0.0000	0.00
19	1158.86	1158.44	0.0000	0.00
20	1162.81	1162.38	0.0000	0.00
21	1227.43	1226.99	0.0000	0.00
22	1461.11	1460.58	0.0000	0.00
23	1608.02	1607.45	0.0000	0.00
24	2156.29	2155.60	0.0000	0.00
25	2614.20	2613.46	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-06

DUPLICATE 2

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:15:34AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	50.12	43 -	58	50.23	2.43E+02	130.52	1.54E+03	8.14
	2	76.16	72 -	83	76.25	1.84E+02	73.81	5.92E+02	3.92
	3	92.88	90 -	96	92.96	9.69E+01	48.14	3.34E+02	1.48
	4	133.96	130 -	137	134.02	4.02E+01	43.63	2.88E+02	1.69
M	5	238.96	235 -	244	238.96	1.09E+02	28.71	9.25E+01	1.41
m	6	241.95	235 -	244	241.94	4.76E+01	24.00	8.08E+01	1.42
	7	294.88	291 -	300	294.85	6.34E+01	40.44	2.03E+02	1.97
	8	352.10	348 -	356	352.03	8.41E+01	39.58	1.90E+02	1.58
	9	575.23	573 -	578	575.05	1.22E+01	16.19	4.36E+01	2.81
	10	583.46	579 -	589	583.28	4.39E+01	26.56	6.82E+01	2.59
M	11	609.55	604 -	619	609.36	6.93E+01	25.34	7.29E+01	2.06
m	12	616.20	604 -	619	616.00	1.01E+01	15.92	3.61E+01	1.71
M	13	657.21	650 -	670	657.00	1.52E+01	12.41	1.72E+01	1.74
m	14	665.22	650 -	670	665.00	1.05E+01	15.43	2.29E+01	1.75
	15	726.21	721 -	729	725.96	2.02E+01	18.50	3.97E+01	2.47
	16	831.55	826 -	837	831.26	2.06E+01	20.49	4.27E+01	3.85
	17	997.45	991 -	1002	997.09	2.80E+01	14.42	1.20E+01	9.50
	18	1057.49	1052 -	1061	1057.11	1.35E+01	16.19	2.91E+01	2.00
M	19	1158.86	1157 -	1165	1158.44	7.95E+00	6.54	6.91E+00	2.30
m	20	1162.81	1157 -	1165	1162.38	1.24E+01	11.66	8.22E+00	2.83
	21	1227.43	1223 -	1229	1226.99	9.67E+00	9.84	1.07E+01	1.08
	22	1461.11	1457 -	1464	1460.58	7.68E+01	18.22	4.39E+00	2.38
	23	1608.02	1605 -	1609	1607.45	4.83E+00	5.50	2.33E+00	1.66
	24	2156.29	2151 -	2157	2155.60	5.00E+00	4.47	0.00E+00	1.00
	25	2614.20	2608 -	2616	2613.46	1.54E+01	9.60	5.28E+00	1.88

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-06

DUPLICATE 2

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:15:34AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	50.12	43 -	58	2.43E+02	130.52	1.54E+03	1.04E+02
	2	76.16	72 -	83	1.84E+02	73.81	5.92E+02	5.64E+01
	3	92.88	90 -	96	9.69E+01	48.14	3.34E+02	3.61E+01
	4	133.96	130 -	137	4.02E+01	43.63	2.88E+02	3.43E+01
M	5	238.96	235 -	244	1.09E+02	28.71	9.25E+01	1.58E+01
m	6	241.95	235 -	244	4.76E+01	24.00	8.08E+01	1.48E+01
	7	294.88	291 -	300	6.34E+01	40.44	2.03E+02	3.06E+01
	8	352.10	348 -	356	8.41E+01	39.58	1.90E+02	2.88E+01
	9	575.23	573 -	578	1.22E+01	16.19	4.36E+01	1.20E+01
	10	583.46	579 -	589	4.39E+01	26.56	6.82E+01	1.89E+01
M	11	609.55	604 -	619	6.93E+01	25.34	7.29E+01	1.40E+01
m	12	616.20	604 -	619	1.01E+01	15.92	3.61E+01	9.88E+00
M	13	657.21	650 -	670	1.52E+01	12.41	1.72E+01	6.82E+00
m	14	665.22	650 -	670	1.05E+01	15.43	2.29E+01	7.87E+00
	15	726.21	721 -	729	2.02E+01	18.50	3.97E+01	1.33E+01
	16	831.55	826 -	837	2.06E+01	20.49	4.27E+01	1.51E+01
	17	997.45	991 -	1002	2.80E+01	14.42	1.20E+01	8.05E+00
	18	1057.49	1052 -	1061	1.35E+01	16.19	2.91E+01	1.19E+01
M	19	1158.86	1157 -	1165	7.95E+00	6.54	6.91E+00	4.32E+00
m	20	1162.81	1157 -	1165	1.24E+01	11.66	8.22E+00	4.71E+00
	21	1227.43	1223 -	1229	9.67E+00	9.84	1.07E+01	6.26E+00
	22	1461.11	1457 -	1464	7.68E+01	18.22	4.39E+00	4.09E+00
	23	1608.02	1605 -	1609	4.83E+00	5.50	2.33E+00	2.72E+00
	24	2156.29	2151 -	2157	5.00E+00	4.47	0.00E+00	0.00E+00
	25	2614.20	2608 -	2616	1.54E+01	9.60	5.28E+00	4.56E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-06

DUPLICATE 2

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 7:15:34AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	50.12	43 -	58	50.23	2.43E+02	130.52	1.54E+03	TH-227 TE-132
	2	76.16	72 -	83	76.25	1.84E+02	73.81	5.92E+02	.....
	3	92.88	90 -	96	92.96	9.69E+01	48.14	3.34E+02	GA-67
	4	133.96	130 -	137	134.02	4.02E+01	43.63	2.88E+02	CE-144
M	5	238.96	235 -	244	238.96	1.09E+02	28.71	9.25E+01	PB-212
m	6	241.95	235 -	244	241.94	4.76E+01	24.00	8.08E+01	RA-224
	7	294.88	291 -	300	294.85	6.34E+01	40.44	2.03E+02	PB-214
	8	352.10	348 -	356	352.03	8.41E+01	39.58	1.90E+02	PB-214
	9	575.23	573 -	578	575.05	1.22E+01	16.19	4.36E+01	.....
	10	583.46	579 -	589	583.28	4.39E+01	26.56	6.82E+01	TL-208
M	11	609.55	604 -	619	609.36	6.93E+01	25.34	7.29E+01	BI-214
m	12	616.20	604 -	619	616.00	1.01E+01	15.92	3.61E+01	.....
M	13	657.21	650 -	670	657.00	1.52E+01	12.41	1.72E+01	AG-110M
m	14	665.22	650 -	670	665.00	1.05E+01	15.43	2.29E+01	CE-143
	15	726.21	721 -	729	725.96	2.02E+01	18.50	3.97E+01	BI-212
	16	831.55	826 -	837	831.26	2.06E+01	20.49	4.27E+01	PB-211
	17	997.45	991 -	1002	997.09	2.80E+01	14.42	1.20E+01	.....
	18	1057.49	1052 -	1061	1057.11	1.35E+01	16.19	2.91E+01	.....
M	19	1158.86	1157 -	1165	1158.44	7.95E+00	6.54	6.91E+00	.....
m	20	1162.81	1157 -	1165	1162.38	1.24E+01	11.66	8.22E+00	.....
	21	1227.43	1223 -	1229	1226.99	9.67E+00	9.84	1.07E+01	.....
	22	1461.11	1457 -	1464	1460.58	7.68E+01	18.22	4.39E+00	K-40
	23	1608.02	1605 -	1609	1607.45	4.83E+00	5.50	2.33E+00	.....
	24	2156.29	2151 -	2157	2155.60	5.00E+00	4.47	0.00E+00	.....
	25	2614.20	2608 -	2616	2613.46	1.54E+01	9.60	5.28E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-06

DUPLICATE 2

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 7:15:34AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	50.12	2.43E+02	130.52	1.61E-02	1.68E-03
	2	76.16	1.84E+02	73.81	2.74E-02	3.33E-03
	3	92.88	9.69E+01	48.14	2.85E-02	4.29E-03
	4	133.96	4.02E+01	43.63	2.56E-02	2.63E-03
M	5	238.96	1.09E+02	28.71	1.79E-02	1.60E-03
m	6	241.95	4.76E+01	24.00	1.77E-02	1.60E-03
	7	294.88	6.34E+01	40.44	1.55E-02	1.48E-03
	8	352.10	8.41E+01	39.58	1.37E-02	1.21E-03
	9	575.23	1.22E+01	16.19	9.68E-03	8.33E-04
	10	583.46	4.39E+01	26.56	9.58E-03	8.25E-04
M	11	609.55	6.93E+01	25.34	9.27E-03	7.98E-04
m	12	616.20	1.01E+01	15.92	9.19E-03	7.91E-04
M	13	657.21	1.52E+01	12.41	8.75E-03	7.50E-04
m	14	665.22	1.05E+01	15.43	8.67E-03	7.43E-04
	15	726.21	2.02E+01	18.50	8.10E-03	7.04E-04
	16	831.55	2.06E+01	20.49	7.27E-03	6.36E-04
	17	997.45	2.80E+01	14.42	6.27E-03	5.43E-04
	18	1057.49	1.35E+01	16.19	5.97E-03	5.12E-04
M	19	1158.86	7.95E+00	6.54	5.55E-03	4.60E-04
m	20	1162.81	1.24E+01	11.66	5.54E-03	4.58E-04
	21	1227.43	9.67E+00	9.84	5.31E-03	4.78E-04
	22	1461.11	7.68E+01	18.22	4.67E-03	4.73E-04
	23	1608.02	4.83E+00	5.50	4.40E-03	4.12E-04
	24	2156.29	5.00E+00	4.47	3.94E-03	3.18E-04
	25	2614.20	1.54E+01	9.60	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 7:15:34AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Analysis Report for 1507047-06

DUPLICATE 2

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	50.12	2.43E+02	130.52			2.43E+02	1.31E+02
	2	76.16	1.84E+02	73.81			1.84E+02	7.38E+01
	3	92.88	9.69E+01	48.14	5.29E+01	8.67E+00	4.40E+01	4.89E+01
	4	133.96	4.02E+01	43.63			4.02E+01	4.36E+01
M	5	238.96	1.09E+02	28.71	2.21E+01	3.31E+00	8.71E+01	2.89E+01
m	6	241.95	4.76E+01	24.00	7.15E+00	2.42E+00	4.04E+01	2.41E+01
	7	294.88	6.34E+01	40.44	1.30E+01	5.93E+00	5.03E+01	4.09E+01
	8	352.10	8.41E+01	39.58	1.67E+01	5.59E+00	6.74E+01	4.00E+01
	9	575.23	1.22E+01	16.19			1.22E+01	1.62E+01
	10	583.46	4.39E+01	26.56	7.99E+00	3.88E+00	3.59E+01	2.68E+01
M	11	609.55	6.93E+01	25.34	1.77E+01	8.73E+00	5.16E+01	2.68E+01
m	12	616.20	1.01E+01	15.92			1.01E+01	1.59E+01
M	13	657.21	1.52E+01	12.41			1.52E+01	1.24E+01
m	14	665.22	1.05E+01	15.43			1.05E+01	1.54E+01
	15	726.21	2.02E+01	18.50			2.02E+01	1.85E+01
	16	831.55	2.06E+01	20.49			2.06E+01	2.05E+01
	17	997.45	2.80E+01	14.42			2.80E+01	1.44E+01
	18	1057.49	1.35E+01	16.19			1.35E+01	1.62E+01
M	19	1158.86	7.95E+00	6.54			7.95E+00	6.54E+00
m	20	1162.81	1.24E+01	11.66			1.24E+01	1.17E+01
	21	1227.43	9.67E+00	9.84			9.67E+00	9.84E+00
	22	1461.11	7.68E+01	18.22	1.02E+01	2.32E+00	6.66E+01	1.84E+01
	23	1608.02	4.83E+00	5.50			4.83E+00	5.50E+00
	24	2156.29	5.00E+00	4.47			5.00E+00	4.47E+00
	25	2614.20	1.54E+01	9.60	6.29E+00	1.69E+00	9.07E+00	9.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 7:15:34AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	50.12	2.43E+02	130.52			2.43E+02	1.31E+02
2	76.16	1.84E+02	73.81			1.84E+02	7.38E+01
3	92.88	9.69E+01	48.14	5.29E+01	8.67E+00	4.40E+01	4.89E+01

Analysis Report for 1507047-06

DUPLICATE 2

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	4	133.96	4.02E+01	43.63			4.02E+01	4.36E+01
M	5	238.96	1.09E+02	28.71	2.21E+01	3.31E+00	8.71E+01	2.89E+01
m	6	241.95	4.76E+01	24.00	7.15E+00	2.42E+00	4.04E+01	2.41E+01
	7	294.88	6.34E+01	40.44	1.30E+01	5.93E+00	5.03E+01	4.09E+01
	8	352.10	8.41E+01	39.58	1.67E+01	5.59E+00	6.74E+01	4.00E+01
	9	575.23	1.22E+01	16.19			1.22E+01	1.62E+01
	10	583.46	4.39E+01	26.56	7.99E+00	3.88E+00	3.59E+01	2.68E+01
M	11	609.55	6.93E+01	25.34	1.77E+01	8.73E+00	5.16E+01	2.68E+01
m	12	616.20	1.01E+01	15.92			1.01E+01	1.59E+01
M	13	657.21	1.52E+01	12.41			1.52E+01	1.24E+01
m	14	665.22	1.05E+01	15.43			1.05E+01	1.54E+01
	15	726.21	2.02E+01	18.50			2.02E+01	1.85E+01
	16	831.55	2.06E+01	20.49			2.06E+01	2.05E+01
	17	997.45	2.80E+01	14.42			2.80E+01	1.44E+01
	18	1057.49	1.35E+01	16.19			1.35E+01	1.62E+01
M	19	1158.86	7.95E+00	6.54			7.95E+00	6.54E+00
m	20	1162.81	1.24E+01	11.66			1.24E+01	1.17E+01
	21	1227.43	9.67E+00	9.84			9.67E+00	9.84E+00
	22	1461.11	7.68E+01	18.22	1.02E+01	2.32E+00	6.66E+01	1.84E+01
	23	1608.02	4.83E+00	5.50			4.83E+00	5.50E+00
	24	2156.29	5.00E+00	4.47			5.00E+00	4.47E+00
	25	2614.20	1.54E+01	9.60	6.29E+00	1.69E+00	9.07E+00	9.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.986	1460.81	*	10.67	4.61E+00	1.36E+00
GA-67	0.374	93.31	*	35.70	5.69E+01	2.26E+02
		208.95		2.24		
		300.22		16.00		
CE-144	0.972	133.54	*	10.80	5.37E-01	5.86E-01
TL-208	0.869	583.14	*	30.22	4.28E-01	3.22E-01
		860.37		4.48		
		2614.66	*	35.85	2.15E-01	2.32E-01
BI-212	0.653	727.17	*	11.80	7.28E-01	6.71E-01

Analysis Report for 1507047-06

DUPLICATE 2

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-212	0.653	1620.62		2.75		
PB-212	0.878	238.63	*	44.60	3.77E-01	1.30E-01
		300.09		3.41		
BI-214	0.424	609.31	*	46.30	4.15E-01	2.18E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.991	295.21	*	19.19	5.84E-01	4.78E-01
		351.92	*	37.19	4.56E-01	2.73E-01
RA-224	0.862	240.98	*	3.95	1.99E+00	1.20E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:15:34AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	50.12	6.74868E-02	26.86	Tol.	TE-132 TH-227
	2	76.16	5.10741E-02	20.07		
	9	575.23	3.38235E-03	66.47		
m	12	616.20	2.80968E-03	78.70		
M	13	657.21	4.20920E-03	40.95	Tol.	AG-110M
m	14	665.22	2.90607E-03	73.73	Tol.	CE-143
	16	831.55	5.73413E-03	49.64	Tol.	PB-211
	17	997.45	7.77778E-03	25.75		
	18	1057.49	3.74008E-03	60.11		
M	19	1158.86	2.20955E-03	41.10		
m	20	1162.81	3.44481E-03	47.02		
	21	1227.43	2.68519E-03	50.88		
	23	1608.02	1.34259E-03	56.90		
	24	2156.29	1.38889E-03	44.72		

Analysis Report for 1507047-06
DUPLICATE 2

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	4.61E+00	1.36E+00
GA-67	0.37	93.31	*	35.70	5.69E+01	2.26E+02
		208.95		2.24		
		300.22		16.00		
CE-144	0.97	133.54	*	10.80	5.37E-01	5.86E-01
TL-208	0.86	583.14	*	30.22	4.28E-01	3.22E-01
		860.37		4.48		
		2614.66	*	35.85	2.15E-01	2.32E-01
BI-212	0.65	727.17	*	11.80	7.28E-01	6.71E-01
		1620.62		2.75		
PB-212	0.87	238.63	*	44.60	3.77E-01	1.30E-01
		300.09		3.41		
BI-214	0.42	609.31	*	46.30	4.15E-01	2.18E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	5.84E-01	4.78E-01
		351.92	*	37.19	4.56E-01	2.73E-01
RA-224	0.86	240.98	*	3.95	1.99E+00	1.20E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1507047-06

DUPLICATE 2

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.986	4.61E+00	1.36E+00	
GA-67	0.374	5.69E+01	2.26E+02	
CE-144	0.972	5.37E-01	5.86E-01	
TL-208	0.869	2.88E-01	1.88E-01	
BI-212	0.653	7.28E-01	6.71E-01	
PB-212	0.878	3.77E-01	1.30E-01	
BI-214	0.424	4.15E-01	2.18E-01	
PB-214	0.991	4.87E-01	2.37E-01	
RA-224	0.862	1.99E+00	1.20E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-06

DUPLICATE 2

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:15:34AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	50.12	6.74868E-02	26.86	Tol.	TE-132 TH-227
	2	76.16	5.10741E-02	20.07		
	9	575.23	3.38235E-03	66.47		
m	12	616.20	2.80968E-03	78.70		
M	13	657.21	4.20920E-03	40.95	Tol.	AG-110M
m	14	665.22	2.90607E-03	73.73	Tol.	CE-143
	16	831.55	5.73413E-03	49.64	Tol.	PB-211
	17	997.45	7.77778E-03	25.75		
	18	1057.49	3.74008E-03	60.11		
M	19	1158.86	2.20955E-03	41.10		
m	20	1162.81	3.44481E-03	47.02		
	21	1227.43	2.68519E-03	50.88		
	23	1608.02	1.34259E-03	56.90		
	24	2156.29	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	-2.85E-01	1.15E+00	1.15E+00
+	NA-22	1274.54	99.94	7.45E-03	1.24E-01	1.24E-01

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NA-24	1368.53		99.99	-1.91E+12	1.78E+12	2.21E+12
		2754.09		99.86	-1.21E+12		1.78E+12
+	AL-26	1808.65		99.76	-5.29E-02	8.99E-02	8.99E-02
+	K-40	1460.81	*	10.67	4.61E+00	1.15E+00	1.15E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	2.96E-02	6.88E-02	6.88E-02
		78.34		96.00	9.81E-02		8.18E-02
+	SC-46	889.25		99.98	5.27E-02	1.49E-01	1.49E-01
		1120.51		99.99	9.44E-02		2.08E-01
+	V-48	983.52		99.98	6.01E-02	3.93E-01	4.58E-01
		1312.10		97.50	-8.26E-02		3.93E-01
+	CR-51	320.08		9.83	-2.36E-01	1.48E+00	1.48E+00
+	MN-54	834.83		99.97	-1.91E-02	1.29E-01	1.29E-01
+	CO-56	846.75		99.96	3.08E-02	1.63E-01	1.63E-01
		1037.75		14.03	-9.99E-02		1.04E+00
		1238.25		67.00	-3.33E-02		2.35E-01
		1771.40		15.51	-5.25E-01		1.02E+00
		2598.48		16.90	-2.15E-01		4.75E-01
+	CO-57	122.06		85.51	5.84E-02	8.29E-02	8.29E-02
		136.48		10.60	-2.10E-01		6.53E-01
+	CO-58	810.76		99.40	-1.96E-02	1.41E-01	1.41E-01
+	FE-59	1099.22		56.50	-8.14E-02	3.47E-01	3.47E-01
		1291.56		43.20	2.05E-01		4.54E-01
+	CO-60	1173.22		100.00	2.51E-02	1.31E-01	1.55E-01
		1332.49		100.00	4.51E-02		1.31E-01
+	ZN-65	1115.52		50.75	-2.86E-01	2.50E-01	2.50E-01
+	GA-67	93.31	*	35.70	5.69E+01	1.03E+02	1.03E+02
		208.95		2.24	-2.95E+02		1.31E+03
		300.22		16.00	5.90E+01		1.98E+02
+	SE-75	121.11		16.70	-1.98E-02	1.37E-01	4.45E-01
		136.00		59.20	2.47E-02		1.37E-01
		264.65		59.80	6.64E-02		1.59E-01
		279.53		25.20	1.33E-01		4.03E-01
		400.65		11.40	1.38E-01		8.57E-01
+	RB-82	776.52		13.00	1.05E+00	1.85E+00	1.85E+00
+	RB-83	520.41		46.00	1.86E-02	2.34E-01	2.34E-01
		529.64		30.30	1.45E-01		3.66E-01
		552.65		16.40	3.26E-01		7.10E-01
+	KR-85	513.99		0.43	1.56E+01	3.18E+01	3.18E+01
+	SR-85	513.99		99.27	9.16E-02	1.87E-01	1.87E-01
+	Y-88	898.02		93.40	5.51E-03	1.52E-01	1.53E-01
		1836.01		99.38	-8.19E-03		1.52E-01
+	NB-93M	16.57		9.43	-3.41E+03	1.18E+04	1.18E+04
+	NB-94	702.63		100.00	1.25E-02	1.11E-01	1.25E-01
		871.10		100.00	-5.42E-02		1.11E-01
+	NB-95	765.79		99.81	3.53E-02	2.25E-01	2.25E-01
+	NB-95M	235.69		25.00	-3.01E+02	7.60E+01	7.60E+01

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	ZR-95	724.18	43.70	1.71E-01	2.70E-01	3.93E-01
		756.72	55.30	1.55E-02		2.70E-01
+	MO-99	181.06	6.20	3.57E+02	9.10E+02	1.38E+03
		739.58	12.80	2.90E+00		9.10E+02
		778.00	4.50	-7.29E+01		2.81E+03
+	RU-103	497.08	89.00	4.77E-02	1.66E-01	1.66E-01
+	RU-106	621.84	9.80	-9.53E-02	1.13E+00	1.13E+00
+	AG-108M	433.93	89.90	-3.08E-03	9.25E-02	9.25E-02
		614.37	90.40	-3.86E-01		1.39E-01
		722.95	90.50	-2.35E-02		1.32E-01
+	CD-109	88.03	3.72	-1.09E+00	2.14E+00	2.14E+00
+	AG-110M	657.75	93.14	-7.62E-02	1.67E-01	1.67E-01
		677.61	10.53	2.69E-01		1.22E+00
		706.67	16.46	3.98E-01		8.38E-01
		763.93	21.98	-3.46E-01		5.96E-01
		884.67	71.63	4.33E-02		1.69E-01
		1384.27	23.94	8.34E-02		4.21E-01
+	CD-113M	263.70	0.02	-1.27E+02	3.46E+02	3.46E+02
+	SN-113	255.12	1.93	-6.19E-01	1.51E-01	4.94E+00
		391.69	64.90	2.88E-03		1.51E-01
+	TE123M	159.00	84.10	4.91E-02	9.66E-02	9.66E-02
+	SB-124	602.71	97.87	2.17E-02	1.83E-01	1.83E-01
		645.85	7.26	-3.33E-01		1.81E+00
		722.78	11.10	-2.64E-01		1.49E+00
		1691.02	49.00	-1.42E-01		2.11E-01
+	I-125	35.49	6.49	-2.19E+00	1.05E+01	1.05E+01
+	SB-125	176.33	6.89	-3.98E-01	2.64E-01	9.93E-01
		427.89	29.33	-5.42E-02		2.64E-01
		463.38	10.35	1.99E-01		9.52E-01
		600.56	17.80	7.58E-02		6.92E-01
		635.90	11.32	-3.98E-01		9.30E-01
+	SB-126	414.70	83.30	-9.87E-02	4.75E-01	4.75E-01
		666.33	99.60	-1.71E-01		6.20E-01
		695.00	99.60	3.94E-02		6.11E-01
		720.50	53.80	6.10E-02		1.01E+00
+	SN-126	87.57	37.00	-1.05E-01	2.07E-01	2.07E-01
+	SB-127	473.00	25.00	9.07E+00	4.54E+01	5.01E+01
		685.20	35.70	-4.62E+00		4.54E+01
		783.80	14.70	-2.29E+01		1.23E+02
+	I-129	29.78	57.00	-1.66E+00	2.29E+00	2.29E+00
		33.60	13.20	-1.84E+00		4.78E+00
		39.58	7.52	-2.40E+00		3.98E+00
+	I-131	284.30	6.05	-3.65E+00	1.20E+00	1.41E+01
		364.48	81.20	1.12E-01		1.20E+00
		636.97	7.26	-7.95E+00		1.59E+01
		722.89	1.80	-1.31E+01		7.40E+01
+	TE-132	49.72	13.10	-6.53E+01	3.15E+01	4.32E+02
		228.16	88.00	2.06E+00		3.15E+01

Analysis Report for 1507047-06

DUPLICATE 2

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BA-133	81.00		33.00	7.53E-02	1.54E-01	1.65E-01
			302.84		17.80	1.68E-03		5.00E-01
			356.01		60.00	3.28E-02		1.54E-01
+		I-133	529.87		86.30	1.71E+08	5.07E+08	5.07E+08
+		XE-133	81.00		38.00	2.62E+00	5.75E+00	5.75E+00
+		CS-134	563.23		8.38	4.48E-01	1.27E-01	1.13E+00
			569.32		15.43	2.02E-01		6.21E-01
			604.70		97.60	1.09E-02		1.38E-01
			795.84		85.40	-3.87E-02		1.27E-01
			801.93		8.73	1.08E-01		1.46E+00
+		CS-135	268.24		16.00	-9.33E-02	5.06E-01	5.06E-01
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	-7.94E-01	4.25E-01	3.80E+00
			163.89		4.61	-1.14E+00		6.59E+00
			176.55		13.56	2.17E-01		2.25E+00
			273.65		12.66	-5.35E-02		2.82E+00
			340.57		48.50	-5.73E-02		8.15E-01
			818.50		99.70	-1.61E-01		4.25E-01
			1048.07		79.60	3.14E-02		6.50E-01
			1235.34		19.70	-5.42E-01		2.72E+00
+		CS-137	661.65		85.12	6.74E-02	1.88E-01	1.88E-01
+		LA-138	788.74		34.00	-2.01E-02	1.33E-01	3.41E-01
			1435.80		66.00	-2.21E-02		1.33E-01
+		CE-139	165.85		80.35	-4.71E-03	1.01E-01	1.01E-01
+		BA-140	162.64		6.70	5.51E-01	1.96E+00	4.78E+00
			304.84		4.50	5.05E+00		8.71E+00
			423.70		3.20	4.88E+00		1.26E+01
			437.55		2.00	-4.16E-02		1.93E+01
			537.32		25.00	1.13E+00		1.96E+00
+		LA-140	328.77		20.50	1.01E+00	6.20E-01	2.01E+00
			487.03		45.50	-1.62E-01		8.62E-01
			815.85		23.50	-1.36E-01		1.93E+00
			1596.49		95.49	-5.58E-02		6.20E-01
+		CE-141	145.44		48.40	1.73E-02	2.67E-01	2.67E-01
+		CE-143	57.36		11.80	-6.01E+04	3.23E+05	9.88E+05
			293.26		42.00	-8.33E+04		3.23E+05
			664.55		5.20	3.10E+06		4.08E+06
+		CE-144	133.54	*	10.80	5.37E-01	9.55E-01	9.55E-01
+		PM-144	476.78		42.00	-5.19E-02	1.20E-01	2.10E-01
			618.01		98.60	4.02E-03		1.20E-01
			696.49		99.49	3.63E-02		1.37E-01
+		PM-145	36.85		21.70	7.17E-01	1.01E+00	1.97E+00
			37.36		39.70	3.68E-01		1.01E+00
			42.30		15.10	2.78E-01		1.56E+00
			72.40		2.31	-1.41E+00		2.56E+00
+		PM-146	453.90		39.94	6.29E-02	2.17E-01	2.17E-01
			735.90		14.01	-1.55E-01		6.61E-01

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	747.13	13.10	9.79E-02	2.17E-01	8.56E-01
+	ND-147	91.11	28.90	4.03E-02	1.71E+00	1.71E+00
		531.02	13.10	-1.44E+00		3.52E+00
+	PM-149	285.90	3.10	-3.57E+03	1.64E+04	1.64E+04
+	EU-152	121.78	20.50	2.28E-01	3.23E-01	3.23E-01
		244.69	5.40	2.85E-01		1.35E+00
		344.27	19.13	4.93E-02		4.58E-01
		778.89	9.20	-5.45E-01		1.18E+00
		964.01	10.40	-6.21E-01		1.22E+00
		1085.78	7.22	-6.31E-03		1.60E+00
		1112.02	9.60	-4.33E-01		1.38E+00
		1407.95	14.94	4.03E-03		6.82E-01
+	GD-153	97.43	31.30	3.03E-02	2.17E-01	2.17E-01
		103.18	22.20	-2.75E-02		3.00E-01
+	EU-154	123.07	40.50	-5.48E-02	1.60E-01	1.60E-01
		723.30	19.70	-1.08E-01		6.11E-01
		873.19	11.50	3.98E-01		1.12E+00
		996.32	10.30	-6.92E-01		1.21E+00
		1004.76	17.90	-2.18E-01		6.81E-01
		1274.45	35.50	2.07E-02		3.44E-01
+	EU-155	86.50	30.90	-1.58E-02	2.55E-01	2.55E-01
		105.30	20.70	6.15E-02		3.03E-01
+	EU-156	811.77	10.40	-8.06E-01	3.51E+00	3.51E+00
		1153.47	7.20	1.65E+00		7.55E+00
		1230.71	8.90	-5.61E-02		5.58E+00
+	HO-166M	184.41	72.60	8.53E-02	1.36E-01	1.36E-01
		280.45	29.60	9.65E-02		2.93E-01
		410.94	11.10	1.89E-01		8.10E-01
		711.69	54.10	-6.08E-02		2.12E-01
+	TM-171	66.72	0.14	1.20E+01	4.59E+01	4.59E+01
+	HF-172	81.75	4.52	-5.29E-01	5.95E-01	1.18E+00
		125.81	11.30	2.30E-02		5.95E-01
+	LU-172	181.53	20.60	-4.46E+00	3.22E+00	6.46E+00
		810.06	16.63	-1.60E+00		1.16E+01
		912.12	15.25	5.02E+00		1.83E+01
		1093.66	62.50	-9.41E-01		3.22E+00
+	LU-173	100.72	5.24	3.61E-01	4.47E-01	1.28E+00
		272.11	21.20	4.34E-01		4.47E-01
+	HF-175	343.40	84.00	-3.02E-03	1.32E-01	1.32E-01
+	LU-176	88.34	13.30	-2.93E-01	8.89E-02	5.74E-01
		201.83	86.00	7.77E-04		8.89E-02
		306.78	94.00	-6.57E-02		8.90E-02
+	TA-182	67.75	41.20	8.04E-02	1.87E-01	1.87E-01
		1121.30	34.90	2.90E-01		5.61E-01
		1189.05	16.23	3.27E-01		9.86E-01
		1221.41	26.98	3.20E-02		4.95E-01
		1231.02	11.44	5.62E-02		1.44E+00
+	IR-192	308.46	29.68	-1.23E-01	2.15E-01	3.74E-01
		468.07	48.10	3.83E-02		2.15E-01

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	HG-203	279.19		77.30	5.97E-02	1.69E-01	1.69E-01
+	BI-207	569.67		97.72	3.11E-02	9.58E-02	9.58E-02
		1063.62		74.90	-3.02E-02		1.51E-01
+	TL-208	583.14	*	30.22	4.28E-01	3.64E-01	5.03E-01
		860.37		4.48	-6.85E-01		2.62E+00
		2614.66	*	35.85	2.15E-01		3.64E-01
+	BI-210M	262.00		45.00	4.56E-02	1.84E-01	1.84E-01
		300.00		23.00	1.08E-01		3.62E-01
+	PB-210	46.50		4.25	4.30E+00	4.69E+00	4.69E+00
+	PB-211	404.84		2.90	1.31E+00	2.89E+00	2.89E+00
		831.96		2.90	1.70E+00		4.62E+00
+	BI-212	727.17	*	11.80	7.28E-01	1.06E+00	1.06E+00
		1620.62		2.75	-5.59E-01		4.99E+00
+	PB-212	238.63	*	44.60	3.77E-01	2.79E-01	2.79E-01
		300.09		3.41	7.27E-01		2.44E+00
+	BI-214	609.31	*	46.30	4.15E-01	5.67E-01	5.67E-01
		1120.29		15.10	4.96E-01		1.09E+00
		1764.49		15.80	-1.42E-01		1.05E+00
		2204.22		4.98	9.65E-01		2.65E+00
+	PB-214	295.21	*	19.19	5.84E-01	4.24E-01	7.63E-01
		351.92	*	37.19	4.56E-01		4.24E-01
+	RN-219	401.80		6.50	1.53E-01	1.33E+00	1.33E+00
+	RA-223	323.87		3.88	9.60E-01	2.20E+00	2.20E+00
+	RA-224	240.98	*	3.95	1.99E+00	3.08E+00	3.08E+00
+	RA-225	40.00		31.00	-2.07E+00	3.43E+00	3.43E+00
+	RA-226	186.21		3.28	4.63E+00	3.14E+00	3.14E+00
+	TH-227	50.10		8.40	-2.62E-01	7.72E-01	1.73E+00
		236.00		11.50	-3.06E+00		7.72E-01
		256.20		6.30	2.79E-02		1.32E+00
+	AC-228	338.32		11.40	3.99E-01	5.79E-01	8.38E-01
		911.07		27.70	2.88E-01		5.79E-01
		969.11		16.60	1.13E-01		8.85E-01
+	TH-230	48.44		16.90	-5.58E-01	9.35E-01	9.35E-01
		62.85		4.60	2.07E+00		1.74E+00
		67.67		0.37	7.57E+00		1.76E+01
+	PA-231	283.67		1.60	-1.24E+00	3.85E+00	4.78E+00
		302.67		2.30	1.29E-02		3.85E+00
+	TH-231	25.64		14.70	3.82E+00	9.16E-01	3.11E+01
		84.21		6.40	8.87E-01		9.16E-01
+	PA-233	311.98		38.60	-1.21E-01	4.29E-01	4.29E-01
+	PA-234	131.20		20.40	-1.78E-01	3.40E-01	3.40E-01
		733.99		8.80	1.22E-01		1.07E+00
		946.00		12.00	-4.83E-01		1.03E+00
+	PA-234M	1001.03		0.92	-1.58E+00	1.44E+01	1.44E+01
+	TH-234	63.29		3.80	2.49E+00	2.08E+00	2.08E+00
+	U-235	143.76		10.50	-2.96E-01	6.63E-01	6.63E-01
		163.35		4.70	1.73E-01		1.50E+00

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	205.31	4.70	3.39E-01	6.63E-01	1.64E+00
+	NP-237	86.50	12.60	-3.82E-02	6.18E-01	6.18E-01
+	NP-239	106.10	22.70	5.63E+01	1.02E+03	1.02E+03
		228.18	10.70	1.66E+02		2.54E+03
		277.60	14.10	1.21E+03		2.30E+03
+	AM-241	59.54	35.90	6.10E-02	2.04E-01	2.04E-01
+	AM-243	74.67	66.00	-6.19E-02	1.15E-01	1.15E-01
+	CM-243	209.75	3.29	1.19E+00	6.20E-01	2.37E+00
		228.14	10.60	4.48E-02		6.86E-01
		277.60	14.00	3.26E-01		6.20E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.15E+00	1.15E+00	-2.85E-01	5.19E-01
	NA-22	1274.54		99.94	1.24E-01	1.24E-01	7.45E-03	5.27E-02
	NA-24	1368.53		99.99	2.21E+12	1.78E+12	-1.91E+12	8.27E+11
		2754.09		99.86	1.78E+12		-1.21E+12	5.61E+11
	AL-26	1808.65		99.76	8.99E-02	8.99E-02	-5.29E-02	3.37E-02
+	K-40	1460.81	*	10.67	1.15E+00	1.15E+00	4.61E+00	4.79E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.88E-02	6.88E-02	2.96E-02	3.25E-02
		78.34		96.00	8.18E-02		9.81E-02	3.92E-02
	SC-46	889.25		99.98	1.49E-01	1.49E-01	5.27E-02	6.57E-02
		1120.51		99.99	2.08E-01		9.44E-02	9.38E-02
	V-48	983.52		99.98	4.58E-01	3.93E-01	6.01E-02	2.04E-01
		1312.10		97.50	3.93E-01		-8.26E-02	1.65E-01

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CR-51	320.08		9.83	1.48E+00	1.48E+00	-2.36E-01	6.73E-01
	MN-54	834.83		99.97	1.29E-01	1.29E-01	-1.91E-02	5.78E-02
	CO-56	846.75		99.96	1.63E-01	1.63E-01	3.08E-02	7.31E-02
		1037.75		14.03	1.04E+00		-9.99E-02	4.51E-01
		1238.25		67.00	2.35E-01		-3.33E-02	1.01E-01
		1771.40		15.51	1.02E+00		-5.25E-01	4.19E-01
		2598.48		16.90	4.75E-01		-2.15E-01	1.50E-01
	CO-57	122.06		85.51	8.29E-02	8.29E-02	5.84E-02	3.93E-02
		136.48		10.60	6.53E-01		-2.10E-01	3.08E-01
	CO-58	810.76		99.40	1.41E-01	1.41E-01	-1.96E-02	6.24E-02
	FE-59	1099.22		56.50	3.47E-01	3.47E-01	-8.14E-02	1.51E-01
		1291.56		43.20	4.54E-01		2.05E-01	1.95E-01
	CO-60	1173.22		100.00	1.55E-01	1.31E-01	2.51E-02	6.91E-02
		1332.49		100.00	1.31E-01		4.51E-02	5.63E-02
	ZN-65	1115.52		50.75	2.50E-01	2.50E-01	-2.86E-01	1.08E-01
+	GA-67	93.31	*	35.70	1.03E+02	1.03E+02	5.69E+01	5.00E+01
		208.95		2.24	1.31E+03		-2.95E+02	6.12E+02
		300.22		16.00	1.98E+02		5.90E+01	9.17E+01
	SE-75	121.11		16.70	4.45E-01	1.37E-01	-1.98E-02	2.10E-01
		136.00		59.20	1.37E-01		2.47E-02	6.50E-02
		264.65		59.80	1.59E-01		6.64E-02	7.39E-02
		279.53		25.20	4.03E-01		1.33E-01	1.88E-01
		400.65		11.40	8.57E-01		1.38E-01	3.90E-01
	RB-82	776.52		13.00	1.85E+00	1.85E+00	1.05E+00	8.23E-01
	RB-83	520.41		46.00	2.34E-01	2.34E-01	1.86E-02	1.05E-01
		529.64		30.30	3.66E-01		1.45E-01	1.64E-01
		552.65		16.40	7.10E-01		3.26E-01	3.19E-01
	KR-85	513.99		0.43	3.18E+01	3.18E+01	1.56E+01	1.49E+01
	SR-85	513.99		99.27	1.87E-01	1.87E-01	9.16E-02	8.73E-02
	Y-88	898.02		93.40	1.53E-01	1.52E-01	5.51E-03	6.75E-02
		1836.01		99.38	1.52E-01		-8.19E-03	6.23E-02
	NB-93M	16.57		9.43	1.18E+04	1.18E+04	-3.41E+03	5.69E+03
	NB-94	702.63		100.00	1.25E-01	1.11E-01	1.25E-02	5.71E-02
		871.10		100.00	1.11E-01		-5.42E-02	4.86E-02
	NB-95	765.79		99.81	2.25E-01	2.25E-01	3.53E-02	1.02E-01
	NB-95M	235.69		25.00	7.60E+01	7.60E+01	-3.01E+02	3.58E+01
	ZR-95	724.18		43.70	3.93E-01	2.70E-01	1.71E-01	1.79E-01
		756.72		55.30	2.70E-01		1.55E-02	1.20E-01
	MO-99	181.06		6.20	1.38E+03	9.10E+02	3.57E+02	6.52E+02
		739.58		12.80	9.10E+02		2.90E+00	4.02E+02
		778.00		4.50	2.81E+03		-7.29E+01	1.25E+03
	RU-103	497.08		89.00	1.66E-01	1.66E-01	4.77E-02	7.50E-02
	RU-106	621.84		9.80	1.13E+00	1.13E+00	-9.53E-02	5.09E-01
	AG-108M	433.93		89.90	9.25E-02	9.25E-02	-3.08E-03	4.19E-02
		614.37		90.40	1.39E-01		-3.86E-01	6.39E-02
		722.95		90.50	1.32E-01		-2.35E-02	5.98E-02
	CD-109	88.03		3.72	2.14E+00	2.14E+00	-1.09E+00	1.02E+00
	AG-110M	657.75		93.14	1.67E-01	1.67E-01	-7.62E-02	7.75E-02
		677.61		10.53	1.22E+00		2.69E-01	5.53E-01
		706.67		16.46	8.38E-01		3.98E-01	3.82E-01
		763.93		21.98	5.96E-01		-3.46E-01	2.68E-01
		884.67		71.63	1.69E-01		4.33E-02	7.43E-02
		1384.27		23.94	4.21E-01		8.34E-02	1.67E-01

Analysis Report for 1507047-06

DUPLICATE 2

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CD-113M	263.70	0.02	3.46E+02	3.46E+02	-1.27E+02	1.61E+02
SN-113	255.12	1.93	4.94E+00	1.51E-01	-6.19E-01	2.30E+00
	391.69	64.90	1.51E-01		2.88E-03	6.89E-02
TE123M	159.00	84.10	9.66E-02	9.66E-02	4.91E-02	4.55E-02
SB-124	602.71	97.87	1.83E-01	1.83E-01	2.17E-02	8.47E-02
	645.85	7.26	1.81E+00		-3.33E-01	8.06E-01
	722.78	11.10	1.49E+00		-2.64E-01	6.72E-01
	1691.02	49.00	2.11E-01		-1.42E-01	7.47E-02
I-125	35.49	6.49	1.05E+01	1.05E+01	-2.19E+00	5.07E+00
SB-125	176.33	6.89	9.93E-01	2.64E-01	-3.98E-01	4.65E-01
	427.89	29.33	2.64E-01		-5.42E-02	1.19E-01
	463.38	10.35	9.52E-01		1.99E-01	4.36E-01
	600.56	17.80	6.92E-01		7.58E-02	3.18E-01
	635.90	11.32	9.30E-01		-3.98E-01	4.18E-01
SB-126	414.70	83.30	4.75E-01	4.75E-01	-9.87E-02	2.15E-01
	666.33	99.60	6.20E-01		-1.71E-01	2.84E-01
	695.00	99.60	6.11E-01		3.94E-02	2.79E-01
	720.50	53.80	1.01E+00		6.10E-02	4.54E-01
SN-126	87.57	37.00	2.07E-01	2.07E-01	-1.05E-01	9.89E-02
SB-127	473.00	25.00	5.01E+01	4.54E+01	9.07E+00	2.25E+01
	685.20	35.70	4.54E+01		-4.62E+00	2.03E+01
	783.80	14.70	1.23E+02		-2.29E+01	5.49E+01
I-129	29.78	57.00	2.29E+00	2.29E+00	-1.66E+00	1.10E+00
	33.60	13.20	4.78E+00		-1.84E+00	2.29E+00
	39.58	7.52	3.98E+00		-2.40E+00	1.91E+00
I-131	284.30	6.05	1.41E+01	1.20E+00	-3.65E+00	6.51E+00
	364.48	81.20	1.20E+00		1.12E-01	5.51E-01
	636.97	7.26	1.59E+01		-7.95E+00	7.13E+00
	722.89	1.80	7.40E+01		-1.31E+01	3.35E+01
TE-132	49.72	13.10	4.32E+02	3.15E+01	-6.53E+01	2.07E+02
	228.16	88.00	3.15E+01		2.06E+00	1.47E+01
BA-133	81.00	33.00	1.65E-01	1.54E-01	7.53E-02	7.76E-02
	302.84	17.80	5.00E-01		1.68E-03	2.33E-01
	356.01	60.00	1.54E-01		3.28E-02	7.12E-02
I-133	529.87	86.30	5.07E+08	5.07E+08	1.71E+08	2.27E+08
XE-133	81.00	38.00	5.75E+00	5.75E+00	2.62E+00	2.70E+00
CS-134	563.23	8.38	1.13E+00	1.27E-01	4.48E-01	5.09E-01
	569.32	15.43	6.21E-01		2.02E-01	2.79E-01
	604.70	97.60	1.38E-01		1.09E-02	6.40E-02
	795.84	85.40	1.27E-01		-3.87E-02	5.58E-02
	801.93	8.73	1.46E+00		1.08E-01	6.55E-01
CS-135	268.24	16.00	5.06E-01	5.06E-01	-9.33E-02	2.35E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	3.80E+00	4.25E-01	-7.94E-01	1.79E+00
	163.89	4.61	6.59E+00		-1.14E+00	3.10E+00
	176.55	13.56	2.25E+00		2.17E-01	1.06E+00
	273.65	12.66	2.82E+00		-5.35E-02	1.31E+00
	340.57	48.50	8.15E-01		-5.73E-02	3.78E-01
	818.50	99.70	4.25E-01		-1.61E-01	1.85E-01
	1048.07	79.60	6.50E-01		3.14E-02	2.83E-01
	1235.34	19.70	2.72E+00		-5.42E-01	1.16E+00

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-137	661.65		85.12	1.88E-01	1.88E-01	6.74E-02	8.74E-02
	LA-138	788.74		34.00	3.41E-01	1.33E-01	-2.01E-02	1.52E-01
		1435.80		66.00	1.33E-01		-2.21E-02	5.14E-02
	CE-139	165.85		80.35	1.01E-01	1.01E-01	-4.71E-03	4.73E-02
	BA-140	162.64		6.70	4.78E+00	1.96E+00	5.51E-01	2.25E+00
		304.84		4.50	8.71E+00		5.05E+00	4.05E+00
		423.70		3.20	1.26E+01		4.88E+00	5.75E+00
		437.55		2.00	1.93E+01		-4.16E-02	8.75E+00
		537.32		25.00	1.96E+00		1.13E+00	8.96E-01
	LA-140	328.77		20.50	2.01E+00	6.20E-01	1.01E+00	9.35E-01
		487.03		45.50	8.62E-01		-1.62E-01	3.88E-01
		815.85		23.50	1.93E+00		-1.36E-01	8.42E-01
		1596.49		95.49	6.20E-01		-5.58E-02	2.60E-01
	CE-141	145.44		48.40	2.67E-01	2.67E-01	1.73E-02	1.27E-01
	CE-143	57.36		11.80	9.88E+05	3.23E+05	-6.01E+04	4.69E+05
		293.26		42.00	3.23E+05		-8.33E+04	1.52E+05
		664.55		5.20	4.08E+06		3.10E+06	1.90E+06
+	CE-144	133.54	*	10.80	9.55E-01	9.55E-01	5.37E-01	4.59E-01
	PM-144	476.78		42.00	2.10E-01	1.20E-01	-5.19E-02	9.43E-02
		618.01		98.60	1.20E-01		4.02E-03	5.46E-02
		696.49		99.49	1.37E-01		3.63E-02	6.27E-02
	PM-145	36.85		21.70	1.97E+00	1.01E+00	7.17E-01	9.49E-01
		37.36		39.70	1.01E+00		3.68E-01	4.87E-01
		42.30		15.10	1.56E+00		2.78E-01	7.50E-01
		72.40		2.31	2.56E+00		-1.41E+00	1.21E+00
	PM-146	453.90		39.94	2.17E-01	2.17E-01	6.29E-02	9.82E-02
		735.90		14.01	6.61E-01		-1.55E-01	2.89E-01
		747.13		13.10	8.56E-01		9.79E-02	3.83E-01
	ND-147	91.11		28.90	1.71E+00	1.71E+00	4.03E-02	8.23E-01
		531.02		13.10	3.52E+00		-1.44E+00	1.56E+00
	PM-149	285.90		3.10	1.64E+04	1.64E+04	-3.57E+03	7.60E+03
	EU-152	121.78		20.50	3.23E-01	3.23E-01	2.28E-01	1.53E-01
		244.69		5.40	1.35E+00		2.85E-01	6.24E-01
		344.27		19.13	4.58E-01		4.93E-02	2.12E-01
		778.89		9.20	1.18E+00		-5.45E-01	5.24E-01
		964.01		10.40	1.22E+00		-6.21E-01	5.38E-01
		1085.78		7.22	1.60E+00		-6.31E-03	6.88E-01
		1112.02		9.60	1.38E+00		-4.33E-01	6.03E-01
		1407.95		14.94	6.82E-01		4.03E-03	2.76E-01
	GD-153	97.43		31.30	2.17E-01	2.17E-01	3.03E-02	1.03E-01
		103.18		22.20	3.00E-01		-2.75E-02	1.42E-01
	EU-154	123.07		40.50	1.60E-01	1.60E-01	-5.48E-02	7.57E-02
		723.30		19.70	6.11E-01		-1.08E-01	2.76E-01
		873.19		11.50	1.12E+00		3.98E-01	5.03E-01
		996.32		10.30	1.21E+00		-6.92E-01	5.30E-01
		1004.76		17.90	6.81E-01		-2.18E-01	2.99E-01
		1274.45		35.50	3.44E-01		2.07E-02	1.46E-01
	EU-155	86.50		30.90	2.55E-01	2.55E-01	-1.58E-02	1.22E-01
		105.30		20.70	3.03E-01		6.15E-02	1.43E-01
	EU-156	811.77		10.40	3.51E+00	3.51E+00	-8.06E-01	1.54E+00
		1153.47		7.20	7.55E+00		1.65E+00	3.36E+00
		1230.71		8.90	5.58E+00		-5.61E-02	2.44E+00
	HO-166M	184.41		72.60	1.36E-01	1.36E-01	8.53E-02	6.51E-02

Analysis Report for 1507047-06

DUPLICATE 2

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	280.45		29.60	2.93E-01	1.36E-01	9.65E-02	1.36E-01
		410.94		11.10	8.10E-01		1.89E-01	3.71E-01
		711.69		54.10	2.12E-01		-6.08E-02	9.54E-02
	TM-171	66.72		0.14	4.59E+01	4.59E+01	1.20E+01	2.16E+01
	HF-172	81.75		4.52	1.18E+00	5.95E-01	-5.29E-01	5.52E-01
		125.81		11.30	5.95E-01		2.30E-02	2.82E-01
	LU-172	181.53		20.60	6.46E+00	3.22E+00	-4.46E+00	3.04E+00
		810.06		16.63	1.16E+01		-1.60E+00	5.11E+00
		912.12		15.25	1.83E+01		5.02E+00	8.33E+00
		1093.66		62.50	3.22E+00		-9.41E-01	1.38E+00
	LU-173	100.72		5.24	1.28E+00	4.47E-01	3.61E-01	6.06E-01
		272.11		21.20	4.47E-01		4.34E-01	2.10E-01
	HF-175	343.40		84.00	1.32E-01	1.32E-01	-3.02E-03	6.06E-02
	LU-176	88.34		13.30	5.74E-01	8.89E-02	-2.93E-01	2.75E-01
		201.83		86.00	8.89E-02		7.77E-04	4.17E-02
		306.78		94.00	8.90E-02		-6.57E-02	4.12E-02
	TA-182	67.75		41.20	1.87E-01	1.87E-01	8.04E-02	8.82E-02
		1121.30		34.90	5.61E-01		2.90E-01	2.53E-01
		1189.05		16.23	9.86E-01		3.27E-01	4.31E-01
		1221.41		26.98	4.95E-01		3.20E-02	2.09E-01
		1231.02		11.44	1.44E+00		5.62E-02	6.28E-01
	IR-192	308.46		29.68	3.74E-01	2.15E-01	-1.23E-01	1.73E-01
		468.07		48.10	2.15E-01		3.83E-02	9.63E-02
	HG-203	279.19		77.30	1.69E-01	1.69E-01	5.97E-02	7.89E-02
	BI-207	569.67		97.72	9.58E-02	9.58E-02	3.11E-02	4.30E-02
		1063.62		74.90	1.51E-01		-3.02E-02	6.50E-02
+	TL-208	583.14	*	30.22	5.03E-01	3.64E-01	4.28E-01	2.35E-01
		860.37		4.48	2.62E+00		-6.85E-01	1.16E+00
		2614.66	*	35.85	3.64E-01		2.15E-01	1.50E-01
	BI-210M	262.00		45.00	1.84E-01	1.84E-01	4.56E-02	8.57E-02
		300.00		23.00	3.62E-01		1.08E-01	1.68E-01
	PB-210	46.50		4.25	4.69E+00	4.69E+00	4.30E+00	2.26E+00
	PB-211	404.84		2.90	2.89E+00	2.89E+00	1.31E+00	1.31E+00
		831.96		2.90	4.62E+00		1.70E+00	2.09E+00
+	BI-212	727.17	*	11.80	1.06E+00	1.06E+00	7.28E-01	4.80E-01
		1620.62		2.75	4.99E+00		-5.59E-01	2.11E+00
+	PB-212	238.63	*	44.60	2.79E-01	2.79E-01	3.77E-01	1.34E-01
		300.09		3.41	2.44E+00		7.27E-01	1.13E+00
+	BI-214	609.31	*	46.30	5.67E-01	5.67E-01	4.15E-01	2.73E-01
		1120.29		15.10	1.09E+00		4.96E-01	4.93E-01
		1764.49		15.80	1.05E+00		-1.42E-01	4.54E-01
		2204.22		4.98	2.65E+00		9.65E-01	1.08E+00
+	PB-214	295.21	*	19.19	7.63E-01	4.24E-01	5.84E-01	3.66E-01
		351.92	*	37.19	4.24E-01		4.56E-01	2.03E-01
	RN-219	401.80		6.50	1.33E+00	1.33E+00	1.53E-01	6.08E-01
	RA-223	323.87		3.88	2.20E+00	2.20E+00	9.60E-01	1.02E+00
+	RA-224	240.98	*	3.95	3.08E+00	3.08E+00	1.99E+00	1.47E+00
	RA-225	40.00		31.00	3.43E+00	3.43E+00	-2.07E+00	1.65E+00
	RA-226	186.21		3.28	3.14E+00	3.14E+00	4.63E+00	1.50E+00
	TH-227	50.10		8.40	1.73E+00	7.72E-01	-2.62E-01	8.31E-01
		236.00		11.50	7.72E-01		-3.06E+00	3.63E-01
		256.20		6.30	1.32E+00		2.79E-02	6.17E-01
	AC-228	338.32		11.40	8.38E-01	5.79E-01	3.99E-01	3.90E-01

Analysis Report for 1507047-06

DUPLICATE 2

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AC-228	911.07	27.70	5.79E-01	5.79E-01	2.88E-01	2.65E-01
	969.11	16.60	8.85E-01		1.13E-01	3.99E-01
TH-230	48.44	16.90	9.35E-01	9.35E-01	-5.58E-01	4.49E-01
	62.85	4.60	1.74E+00		2.07E+00	8.25E-01
	67.67	0.37	1.76E+01		7.57E+00	8.30E+00
PA-231	283.67	1.60	4.78E+00	3.85E+00	-1.24E+00	2.21E+00
	302.67	2.30	3.85E+00		1.29E-02	1.79E+00
TH-231	25.64	14.70	3.11E+01	9.16E-01	3.82E+00	1.50E+01
	84.21	6.40	9.16E-01		8.87E-01	4.32E-01
PA-233	311.98	38.60	4.29E-01	4.29E-01	-1.21E-01	1.98E-01
PA-234	131.20	20.40	3.40E-01	3.40E-01	-1.78E-01	1.61E-01
	733.99	8.80	1.07E+00		1.22E-01	4.68E-01
	946.00	12.00	1.03E+00		-4.83E-01	4.57E-01
PA-234M	1001.03	0.92	1.44E+01	1.44E+01	-1.58E+00	6.40E+00
TH-234	63.29	3.80	2.08E+00	2.08E+00	2.49E+00	9.90E-01
U-235	143.76	10.50	6.63E-01	6.63E-01	-2.96E-01	3.13E-01
	163.35	4.70	1.50E+00		1.73E-01	7.08E-01
	205.31	4.70	1.64E+00		3.39E-01	7.68E-01
NP-237	86.50	12.60	6.18E-01	6.18E-01	-3.82E-02	2.96E-01
NP-239	106.10	22.70	1.02E+03	1.02E+03	5.63E+01	4.83E+02
	228.18	10.70	2.54E+03		1.66E+02	1.18E+03
	277.60	14.10	2.30E+03		1.21E+03	1.07E+03
AM-241	59.54	35.90	2.04E-01	2.04E-01	6.10E-02	9.63E-02
AM-243	74.67	66.00	1.15E-01	1.15E-01	-6.19E-02	5.51E-02
CM-243	209.75	3.29	2.37E+00	6.20E-01	1.19E+00	1.11E+00
	228.14	10.60	6.86E-01		4.48E-02	3.19E-01
	277.60	14.00	6.20E-01		3.26E-01	2.89E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-06
DUPLICATE 2

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: DUPLICATE 2

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	2	148
9:	534	1107	838	388	728	1585	174	109
17:	90	94	74	69	71	78	78	79
25:	78	71	79	70	61	61	64	82
33:	64	53	72	66	69	84	60	75
41:	62	77	59	75	59	87	96	73
49:	63	62	72	67	68	59	52	44
57:	44	31	36	29	25	23	51	50
65:	16	19	34	31	29	27	22	25
73:	38	43	61	47	73	74	21	26
81:	30	23	19	32	44	13	45	42
89:	30	38	38	34	69	41	28	16
97:	19	24	26	26	26	16	22	18
105:	22	19	24	21	19	23	31	17
113:	32	25	19	23	17	15	15	20
121:	21	27	16	24	14	26	17	22
129:	23	18	23	23	25	32	22	21
137:	20	12	17	23	30	17	14	31
145:	18	22	21	23	19	20	16	11
153:	19	19	17	17	13	11	27	22
161:	16	10	23	24	17	13	21	12
169:	15	24	24	13	18	11	18	13
177:	15	16	18	18	18	17	18	15
185:	27	79	31	16	13	22	25	14
193:	23	20	18	16	22	14	20	15
201:	14	17	17	17	13	15	17	12
209:	13	21	14	19	7	13	16	17
217:	17	22	13	17	14	14	10	16
225:	16	7	15	10	16	12	8	14
233:	16	20	6	12	12	38	92	19
241:	21	45	14	7	12	12	9	9
249:	16	9	14	15	9	17	16	9
257:	13	13	16	14	14	13	14	10
265:	8	14	15	6	8	17	17	10
273:	12	20	6	12	9	23	7	15
281:	11	9	11	14	7	8	12	12
289:	13	2	11	12	10	15	40	41
297:	7	7	11	11	15	10	6	16
305:	14	13	8	5	13	16	13	5
313:	10	4	11	11	7	8	7	7
321:	3	11	9	8	10	13	10	14
329:	10	12	11	4	7	8	12	13
337:	6	14	20	8	6	11	9	10
345:	9	10	11	9	11	7	29	61
353:	29	14	10	9	13	6	5	3
361:	9	11	8	9	12	5	8	8

369:	8	3	6	11	8	8	10	4

Sample Title: DUPLICATE 2

Channel								
377:	12	11	6	6	8	5	9	7
385:	5	11	7	6	9	7	8	9
393:	9	3	6	5	10	3	5	10
401:	9	3	8	8	8	3	8	5
409:	4	12	5	10	9	5	8	7
417:	4	9	7	2	8	10	11	5
425:	7	4	6	4	6	6	9	4
433:	6	4	13	4	6	5	4	6
441:	8	7	4	7	11	8	6	5
449:	7	2	6	3	10	2	7	9
457:	5	5	7	10	12	7	10	4
465:	6	5	6	5	4	5	3	4
473:	6	5	8	3	5	5	6	8
481:	7	8	10	7	2	6	7	7
489:	6	5	5	4	1	6	5	7
497:	6	5	7	2	8	5	7	3
505:	6	6	8	10	13	22	33	34
513:	15	13	3	6	5	6	4	5
521:	5	5	4	4	3	2	7	6
529:	2	3	8	5	2	2	9	9
537:	4	9	8	5	6	3	8	6
545:	5	2	5	1	0	7	3	5
553:	8	4	4	5	5	8	4	5
561:	3	7	3	7	6	2	2	5
569:	5	8	6	2	4	7	9	8
577:	5	1	7	4	3	14	18	14
585:	2	4	4	4	4	1	5	3
593:	5	5	6	1	4	7	2	5
601:	7	8	9	7	8	5	3	10
609:	45	40	8	7	6	8	2	9
617:	4	7	3	3	6	3	4	4
625:	6	7	2	4	5	3	7	4
633:	5	3	3	5	1	4	6	5
641:	6	8	4	5	3	2	4	2
649:	2	1	3	4	6	2	6	7
657:	10	1	10	5	14	19	12	4
665:	8	4	5	5	3	2	3	3
673:	4	6	7	2	3	4	4	7
681:	3	5	3	1	3	2	5	6
689:	2	4	2	7	2	9	2	5
697:	7	5	8	5	3	2	5	4
705:	8	6	1	4	8	3	4	3
713:	5	1	9	3	6	4	2	4
721:	2	3	6	5	1	9	8	6
729:	0	3	3	3	1	2	2	4
737:	2	3	2	1	5	3	5	2
745:	5	2	3	1	3	8	3	1
753:	1	5	4	4	1	3	5	3
761:	5	6	4	4	5	1	3	13
769:	2	5	0	2	3	1	3	3
777:	5	2	6	2	1	2	6	6
785:	2	5	3	6	3	2	3	2
793:	2	5	2	4	1	3	2	2

801:	7	2	5	6	3	4	6	3

Sample Title: DUPLICATE 2

Channel								
809:	1	2	3	2	2	4	2	1
817:	2	2	3	3	2	4	3	3
825:	1	1	2	3	4	6	5	6
833:	1	4	4	4	2	3	2	4
841:	2	4	5	6	2	3	3	3
849:	4	3	3	4	3	2	1	3
857:	4	4	3	5	0	1	4	2
865:	8	3	2	0	4	4	2	4
873:	1	3	5	6	4	1	2	2
881:	2	2	2	3	2	2	5	1
889:	2	3	5	2	0	2	3	2
897:	3	5	1	4	2	6	2	2
905:	4	4	6	6	3	3	13	8
913:	4	1	3	1	4	3	3	1
921:	3	2	1	3	1	4	1	3
929:	1	6	2	1	3	2	4	2
937:	2	3	3	1	2	1	2	2
945:	6	2	3	4	1	8	5	0
953:	4	1	0	1	2	4	3	2
961:	2	4	3	4	3	1	3	3
969:	9	10	1	1	3	4	1	2
977:	2	3	2	3	7	3	3	2
985:	1	4	4	2	2	1	0	4
993:	2	6	1	2	2	2	3	6
1001:	6	0	1	3	2	5	0	4
1009:	4	1	2	1	3	2	5	5
1017:	2	0	4	1	1	6	1	3
1025:	0	3	1	3	5	3	0	3
1033:	1	2	1	0	6	2	1	2
1041:	0	5	2	2	2	2	3	2
1049:	3	1	2	2	2	1	3	6
1057:	6	1	3	3	1	1	3	2
1065:	0	3	2	4	4	5	2	6
1073:	2	1	3	2	3	0	2	2
1081:	1	4	4	1	2	0	0	2
1089:	3	1	1	3	1	3	3	0
1097:	3	2	3	5	1	2	3	3
1105:	1	3	1	2	5	3	5	2
1113:	1	1	0	5	3	1	6	6
1121:	4	5	3	3	1	0	2	2
1129:	2	3	3	1	0	2	3	1
1137:	0	2	2	3	1	1	1	1
1145:	1	1	1	1	2	4	1	2
1153:	8	2	3	2	1	5	3	0
1161:	3	6	3	2	0	0	2	2
1169:	1	4	1	3	4	2	4	4
1177:	2	5	1	2	1	1	2	0
1185:	2	2	3	3	2	0	1	5
1193:	3	0	1	1	2	2	2	2
1201:	1	0	2	1	3	1	2	3
1209:	3	4	3	2	3	1	1	1
1217:	3	2	2	1	1	2	0	2
1225:	2	2	2	7	0	1	3	3

08533

1233:	0	2	0	1	2	4	4	1

Sample Title: DUPLICATE 2

Channel								
1241:	0	2	4	5	3	1	1	2
1249:	3	2	3	1	0	0	1	2
1257:	1	2	4	1	3	2	2	2
1265:	3	0	3	2	0	1	1	3
1273:	0	4	1	1	1	2	2	0
1281:	2	2	2	2	3	1	0	2
1289:	2	2	0	0	6	0	0	1
1297:	1	2	2	0	0	1	3	3
1305:	1	3	0	2	0	2	1	2
1313:	1	2	1	3	2	4	0	1
1321:	3	1	2	1	1	0	1	0
1329:	0	2	4	1	4	0	1	1
1337:	1	0	1	0	1	0	2	0
1345:	3	2	0	2	3	1	0	2
1353:	2	3	2	2	2	2	0	1
1361:	1	0	2	2	0	1	0	0
1369:	1	0	1	2	1	0	2	4
1377:	2	2	1	2	2	0	2	0
1385:	1	0	0	0	0	1	1	1
1393:	0	0	3	1	0	2	2	0
1401:	4	0	1	0	1	4	0	1
1409:	0	0	2	0	1	1	1	1
1417:	1	1	1	1	0	1	2	2
1425:	0	0	0	1	0	1	2	1
1433:	0	2	0	0	0	1	0	1
1441:	1	0	1	0	1	1	2	3
1449:	0	1	0	0	2	0	0	0
1457:	0	2	7	27	29	12	2	0
1465:	1	2	1	0	0	0	1	1
1473:	1	2	0	3	1	1	1	1
1481:	0	1	0	1	0	1	0	0
1489:	1	0	1	0	1	0	4	2
1497:	0	1	2	1	1	2	0	0
1505:	1	0	2	0	1	3	1	1
1513:	1	1	0	0	1	2	1	0
1521:	2	1	1	1	1	0	0	1
1529:	2	1	2	0	1	0	1	2
1537:	1	0	1	0	0	1	2	1
1545:	1	0	1	2	0	2	0	4
1553:	2	1	1	0	1	1	0	0
1561:	0	0	1	0	1	1	0	2
1569:	0	0	0	1	1	0	0	1
1577:	0	4	1	0	2	3	0	1
1585:	1	3	1	3	3	1	2	2
1593:	1	2	1	0	1	1	0	1
1601:	1	1	0	1	0	1	2	3
1609:	0	0	0	1	0	0	2	0
1617:	4	1	1	1	1	1	1	0
1625:	2	1	0	1	0	3	1	0
1633:	0	0	0	0	0	3	0	1
1641:	0	0	0	0	1	1	0	0
1649:	1	0	1	0	2	2	1	0
1657:	2	0	0	2	1	2	2	0

1665:	0	3	2	0	0	0	1	1

Sample Title: DUPLICATE 2

Channel								
1673:	1	1	1	0	0	2	0	0
1681:	1	0	1	3	1	1	0	0
1689:	0	0	1	0	0	0	0	1
1697:	2	1	1	0	0	1	2	0
1705:	3	0	1	0	1	1	0	0
1713:	1	1	0	0	0	0	0	1
1721:	1	1	1	0	0	0	0	0
1729:	2	0	1	2	2	0	0	0
1737:	3	0	1	0	0	0	1	1
1745:	1	1	0	0	0	1	0	0
1753:	1	1	0	1	0	1	1	0
1761:	2	2	0	5	3	1	1	0
1769:	4	1	0	0	1	0	0	1
1777:	2	1	1	0	2	1	0	2
1785:	0	1	3	3	0	0	1	0
1793:	0	0	1	1	0	2	0	2
1801:	1	0	0	0	0	2	0	1
1809:	0	0	0	0	1	2	1	0
1817:	0	2	1	0	1	0	0	3
1825:	3	0	1	1	2	0	0	0
1833:	0	2	0	1	2	1	1	0
1841:	1	1	0	0	0	0	0	2
1849:	0	0	0	0	0	0	0	0
1857:	1	0	0	0	1	2	0	0
1865:	0	0	0	0	0	0	0	0
1873:	0	0	1	0	0	2	1	1
1881:	0	0	0	1	1	1	0	0
1889:	0	1	0	0	0	0	0	0
1897:	1	0	1	1	0	2	2	1
1905:	0	0	0	0	1	2	0	1
1913:	0	2	0	2	1	0	0	2
1921:	0	2	0	0	0	2	0	0
1929:	0	1	2	1	1	0	0	0
1937:	0	1	0	0	0	2	0	1
1945:	0	0	0	0	0	0	1	0
1953:	0	0	0	0	1	0	1	1
1961:	1	0	3	1	0	1	0	0
1969:	1	0	1	0	0	0	0	0
1977:	0	2	0	0	2	0	1	0
1985:	1	1	0	0	0	1	1	0
1993:	0	2	0	0	0	0	1	0
2001:	0	1	2	1	0	0	1	0
2009:	0	2	0	1	0	0	1	3
2017:	2	0	0	0	0	1	1	1
2025:	0	3	0	0	1	0	0	0
2033:	0	1	0	0	0	1	0	0
2041:	1	1	1	1	2	2	1	1
2049:	1	1	0	2	0	0	1	0
2057:	2	0	1	0	0	0	1	1
2065:	0	0	0	0	1	0	0	1
2073:	0	0	1	1	1	1	1	0
2081:	1	0	0	0	0	0	2	1
2089:	0	0	0	0	0	0	1	0

2097:	1	1	0	0	1	1	1	0

Sample Title: DUPLICATE 2

Channel								
2105:	1	0	1	0	1	0	0	0
2113:	0	1	0	0	1	3	0	0
2121:	2	0	0	0	0	0	1	1
2129:	0	0	0	1	1	0	0	0
2137:	1	1	1	2	0	0	0	2
2145:	1	1	0	0	0	0	0	0
2153:	0	1	0	4	0	0	0	0
2161:	1	2	1	0	1	1	0	0
2169:	0	1	2	1	1	1	1	1
2177:	0	0	0	1	0	0	0	1
2185:	0	0	1	0	1	0	0	2
2193:	0	0	0	0	0	0	0	1
2201:	0	0	1	1	2	1	0	1
2209:	0	1	0	1	1	0	0	0
2217:	0	1	0	0	0	2	2	1
2225:	1	0	0	0	1	0	0	1
2233:	1	0	0	2	0	1	0	0
2241:	1	0	0	0	1	0	0	1
2249:	1	0	0	3	1	0	0	0
2257:	0	1	0	0	1	0	0	1
2265:	0	0	0	0	1	0	0	1
2273:	0	0	1	1	0	0	0	2
2281:	1	0	1	0	0	1	0	1
2289:	0	0	2	0	1	0	0	0
2297:	0	0	0	0	0	0	0	1
2305:	0	1	0	0	1	0	1	0
2313:	0	0	2	0	0	1	1	0
2321:	0	0	0	0	0	0	1	0
2329:	1	1	0	1	0	1	0	0
2337:	0	0	0	0	0	0	1	0
2345:	2	1	2	0	1	2	0	0
2353:	0	1	1	1	0	1	0	1
2361:	0	0	0	0	0	1	1	1
2369:	1	1	1	0	0	1	0	1
2377:	0	0	2	1	0	0	0	1
2385:	0	1	0	0	0	0	0	0
2393:	0	1	0	1	0	0	1	0
2401:	0	1	0	0	0	0	2	0
2409:	1	0	0	2	0	0	0	0
2417:	1	1	0	1	0	0	0	2
2425:	2	1	0	0	0	1	0	0
2433:	0	0	1	0	0	1	0	0
2441:	0	1	0	3	0	0	0	0
2449:	1	0	0	2	1	1	0	0
2457:	1	0	0	1	1	0	0	0
2465:	0	1	0	1	0	0	0	0
2473:	0	1	0	0	0	0	0	1
2481:	0	1	2	0	1	0	0	0
2489:	0	0	0	0	0	0	0	0
2497:	1	0	0	0	1	1	0	0
2505:	0	0	0	1	0	0	0	2
2513:	1	0	0	0	0	0	2	0
2521:	0	0	1	0	0	0	0	0

2529:	1	0	0	0	0	0	0	1

Sample Title: DUPLICATE 2

Channel							
2537:	1	0	0	0	0	0	0	0
2545:	0	0	0	1	1	0	0	1
2553:	1	1	0	0	0	1	0	1
2561:	0	0	0	0	0	0	0	0
2569:	0	0	0	0	0	0	0	3
2577:	0	0	0	0	1	0	0	0
2585:	0	0	0	1	0	0	0	1
2593:	0	0	0	0	0	0	0	0
2601:	1	0	1	1	1	0	0	1
2609:	0	0	0	2	5	8	2	0
2617:	0	1	0	0	0	1	0	0
2625:	0	0	1	0	0	0	0	1
2633:	0	0	0	0	0	0	1	0
2641:	1	1	0	0	0	1	0	1
2649:	0	0	0	0	0	0	0	0
2657:	0	1	0	0	0	0	0	0
2665:	1	0	0	0	0	0	0	0
2673:	0	0	0	0	0	1	0	0
2681:	0	1	0	0	0	0	0	0
2689:	0	0	0	1	1	0	0	1
2697:	0	0	0	1	1	0	0	2
2705:	1	0	1	1	0	0	1	0
2713:	1	0	0	0	0	0	0	0
2721:	0	0	1	1	0	0	0	0
2729:	0	0	0	0	0	0	0	1
2737:	1	0	1	0	0	1	0	1
2745:	0	1	1	0	0	0	0	1
2753:	0	0	0	0	0	1	0	1
2761:	0	0	0	1	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	1	1	0	0	0	0	0	1
2785:	0	1	0	0	0	0	0	0
2793:	1	0	1	0	2	0	2	1
2801:	0	1	0	0	0	0	1	0
2809:	1	0	0	0	1	0	0	0
2817:	0	0	1	0	0	0	0	0
2825:	0	0	1	1	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	1	0	0	0
2849:	0	1	1	0	0	1	0	0
2857:	0	1	0	0	0	0	0	0
2865:	1	0	0	0	0	1	0	1
2873:	1	0	0	1	0	0	1	0
2881:	0	0	1	0	0	0	0	0
2889:	0	0	1	1	0	0	0	0
2897:	0	1	0	0	0	1	0	0
2905:	0	2	1	0	0	1	1	0
2913:	0	1	0	0	0	0	0	0
2921:	1	0	0	0	0	1	0	1
2929:	0	0	0	0	0	0	0	1
2937:	0	0	0	0	1	0	1	0
2945:	0	0	0	0	0	0	0	0
2953:	0	1	0	0	0	0	0	0

2961:	0	0	1	0	1	0	0	0

Sample Title: DUPLICATE 2

Channel								
2969:	1	0	0	0	1	0	0	1
2977:	1	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	1	0	0	0	1
3001:	0	1	0	0	0	0	0	1
3009:	0	0	0	0	1	0	0	0
3017:	0	0	0	0	0	0	1	0
3025:	0	0	0	1	0	1	0	0
3033:	1	0	1	0	0	0	0	0
3041:	0	1	0	0	0	1	0	0
3049:	0	0	0	0	0	2	0	0
3057:	0	0	0	1	0	0	0	0
3065:	0	0	0	0	1	1	1	1
3073:	0	1	2	0	0	2	0	0
3081:	0	0	1	0	0	0	0	0
3089:	0	1	0	0	0	0	0	1
3097:	0	0	0	0	0	0	0	1
3105:	0	0	0	0	0	0	0	1
3113:	0	0	0	0	0	1	1	0
3121:	0	0	0	0	0	1	0	0
3129:	0	0	1	0	1	0	0	1
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	1	0	0	1	0	1	0	0
3169:	0	1	0	0	1	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	1
3201:	0	0	0	0	0	1	0	0
3209:	0	1	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	2	0	0	0	0	0	0
3233:	0	0	2	0	1	0	0	0
3241:	1	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	1	1	0
3281:	0	0	0	0	1	0	1	0
3289:	0	0	1	0	0	1	0	0
3297:	0	0	0	0	1	0	0	0
3305:	0	0	0	0	0	1	0	0
3313:	0	0	0	2	0	0	0	0
3321:	1	1	0	0	0	1	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	1	0	0
3345:	0	1	0	1	0	1	1	0
3353:	1	0	0	0	0	1	0	0
3361:	0	0	0	0	2	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	0

3393:	0	0	1	0	0	1	0	0

Sample Title: DUPLICATE 2

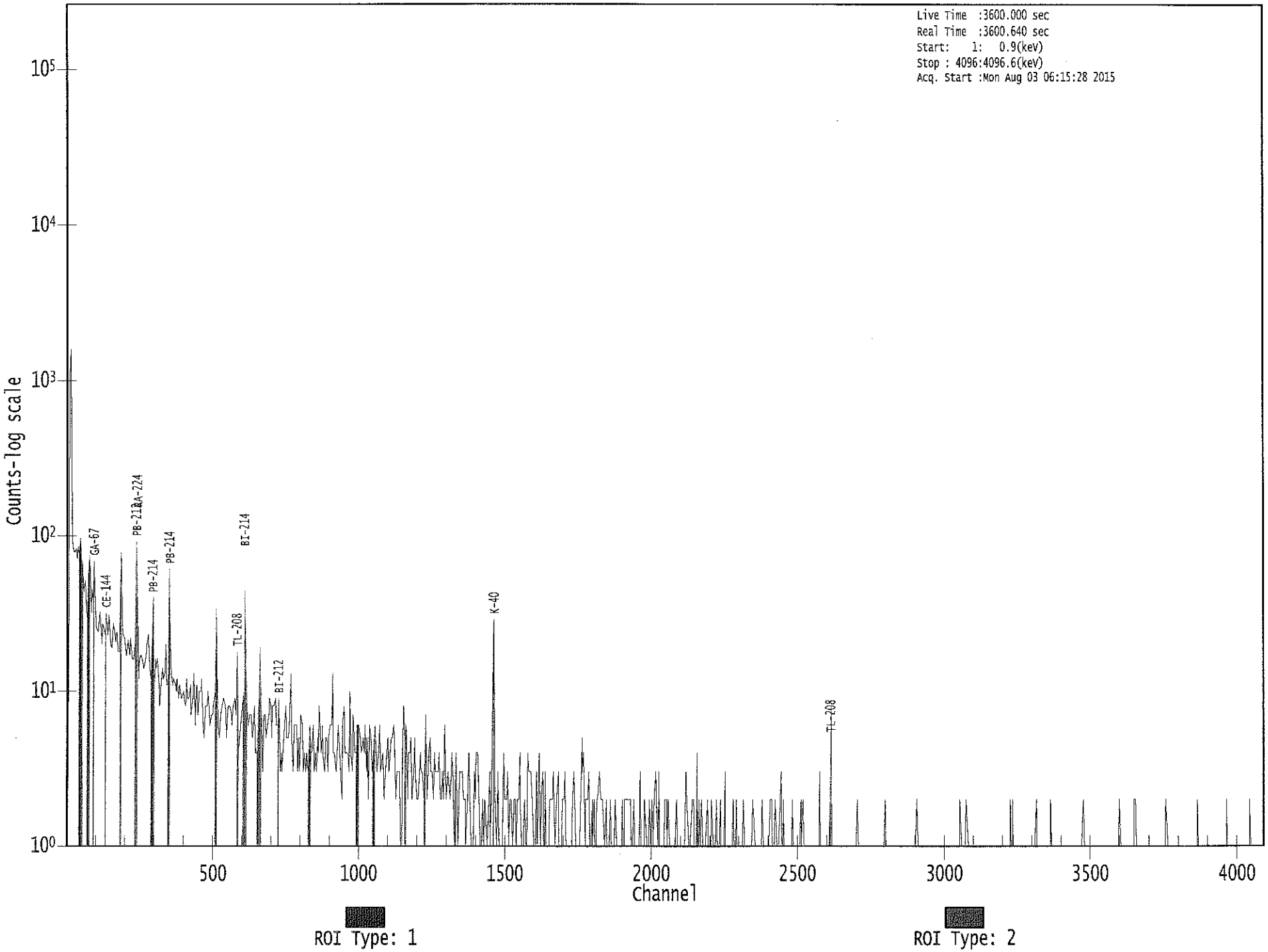
Channel								
3401:	0	0	0	0	0	0	0	1
3409:	0	0	0	0	0	0	0	0
3417:	1	0	0	0	1	0	0	1
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	1	0	1	1
3441:	0	0	0	1	0	0	0	0
3449:	0	1	0	0	0	0	1	0
3457:	0	0	0	0	0	0	0	0
3465:	0	1	0	0	1	0	1	0
3473:	0	1	0	0	2	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	1	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	1	0
3521:	0	0	0	0	0	0	0	0
3529:	0	1	0	0	1	0	0	0
3537:	0	0	0	1	0	0	0	0
3545:	0	0	0	0	0	0	1	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	1	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	1	1	0	0	0	1	0
3585:	0	1	0	1	0	0	0	0
3593:	0	0	0	1	0	0	1	2
3601:	0	1	0	1	0	0	1	0
3609:	1	0	0	0	0	0	0	0
3617:	0	0	1	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	1	0	1	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	2	1	0	0	0	2	1	0
3657:	0	0	0	0	1	0	0	0
3665:	0	0	0	1	0	0	1	0
3673:	0	0	0	1	0	0	0	1
3681:	0	1	0	0	0	0	0	0
3689:	0	1	0	0	1	0	0	0
3697:	1	1	0	0	0	0	0	1
3705:	0	0	0	1	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	1	0	0	0	0	0	1
3729:	1	0	0	0	0	0	0	0
3737:	0	1	0	0	0	0	0	0
3745:	0	0	0	0	1	0	1	0
3753:	1	0	1	0	2	0	0	0
3761:	0	1	0	1	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	1	0	0	0	0	0	0
3785:	0	1	0	1	1	0	0	0
3793:	1	0	0	0	1	1	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	1	0	0	0	0	0	0	0

3825:	0	0	1	0	0	0	0	1

Sample Title: DUPLICATE 2

Channel								
3833:	0	1	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	1	0	1	1	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	2	0	0	0	0	0	0	0
3873:	0	0	1	0	1	0	0	0
3881:	0	1	0	0	0	0	0	0
3889:	0	0	1	0	0	0	0	0
3897:	0	0	1	0	0	1	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	1	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	1	0	0	0
3945:	0	0	0	0	0	0	1	0
3953:	0	0	0	1	0	0	0	1
3961:	0	0	0	0	1	2	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	1	0	1	0	0	0	0
3993:	0	0	1	0	0	0	0	1
4001:	0	0	0	0	0	0	0	0
4009:	0	1	0	1	0	0	0	0
4017:	0	0	0	0	0	0	1	0
4025:	0	0	0	0	0	0	0	0
4033:	1	0	0	0	0	0	1	0
4041:	0	0	0	0	2	0	1	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	1	0	0
4065:	0	0	0	1	0	0	0	0
4073:	0	1	0	0	0	1	1	0
4081:	0	0	0	0	0	0	1	0
4089:	0	0	0	0	1	0	0	0

0000025450.CNF



Apex-Gamma

Analysis Report for 1507047-07
FEEBRISID-12 061-062

8/3

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-07
Sample Description	: FEEBRISID-12 061-062
Sample Type	: SOIL
Sample Size	: 1.028E+02 grams
Facility	: Countroom
Sample Taken On	: 7/6/2015 7:52:55AM
Acquisition Started	: 8/3/2015 6:15:35AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3612.7 seconds
Dead Time	: 0.35 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25451

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

Analysis Report for 1507047-07

FEEBRISID-12 061-062

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 7:15:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.46	27.71	0.0000	0.00
2	158.57	158.74	0.0000	0.00
3	199.33	199.48	0.0000	0.00
4	205.53	205.67	0.0000	0.00
5	492.76	492.76	0.0000	0.00
6	609.41	609.35	0.0000	0.00
7	658.44	658.36	0.0000	0.00
8	755.13	755.00	0.0000	0.00
9	882.84	882.66	0.0000	0.00
10	1219.53	1219.20	0.0000	0.00
11	1387.83	1387.43	0.0000	0.00
12	1457.58	1457.16	0.0000	0.00
13	1460.93	1460.51	0.0000	0.00
14	1469.02	1468.60	0.0000	0.00
15	1720.72	1720.20	0.0000	0.00
16	1905.36	1904.78	0.0000	0.00
17	2317.10	2316.40	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-07

FEEBRISID-12 061-062

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:15:49AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
m	1	27.46	20 -	41	27.71	4.12E+01	36.11	2.20E+02	1.70
	2	158.57	156 -	163	158.74	2.20E+01	25.77	9.60E+01	2.71
	3	199.33	197 -	202	199.48	2.02E+01	18.60	5.17E+01	2.16
	4	205.53	203 -	209	205.67	2.45E+01	21.18	6.49E+01	4.45
	5	492.76	491 -	495	492.76	1.07E+01	10.94	1.66E+01	2.91
	6	609.41	604 -	614	609.35	3.36E+01	20.49	3.68E+01	2.78
	7	658.44	651 -	665	658.36	3.17E+01	16.39	1.47E+01	9.73
	8	755.13	752 -	759	755.00	1.10E+01	13.71	2.40E+01	2.13
	9	882.84	878 -	886	882.66	6.91E+00	9.19	8.18E+00	2.96
	10	1219.53	1216 -	1222	1219.20	1.00E+01	6.32	0.00E+00	4.74
	11	1387.83	1384 -	1390	1387.43	5.89E+00	7.78	6.22E+00	1.16
M	12	1457.58	1456 -	1465	1457.16	7.28E+00	3.46	0.00E+00	2.92
m	13	1460.93	1456 -	1465	1460.51	1.75E+01	8.49	0.00E+00	2.92
	14	1469.02	1466 -	1471	1468.60	5.00E+00	4.47	0.00E+00	1.24
	15	1720.72	1717 -	1723	1720.20	1.00E+01	6.32	0.00E+00	1.96
	16	1905.36	1901 -	1907	1904.78	5.21E+00	6.34	3.57E+00	1.27
	17	2317.10	2313 -	2319	2316.40	5.00E+00	4.47	0.00E+00	1.70

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 7:15:49AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	1	27.46	20 -	41	4.12E+01	36.11	2.20E+02	2.44E+01
	2	158.57	156 -	163	2.20E+01	25.77	9.60E+01	1.97E+01
	3	199.33	197 -	202	2.02E+01	18.60	5.17E+01	1.34E+01
	4	205.53	203 -	209	2.45E+01	21.18	6.49E+01	1.54E+01
	5	492.76	491 -	495	1.07E+01	10.94	1.66E+01	7.21E+00
	6	609.41	604 -	614	3.36E+01	20.49	3.68E+01	1.39E+01
	7	658.44	651 -	665	3.17E+01	16.39	1.47E+01	9.79E+00
	8	755.13	752 -	759	1.10E+01	13.71	2.40E+01	9.86E+00
	9	882.84	878 -	886	6.91E+00	9.19	8.18E+00	6.20E+00
	10	1219.53	1216 -	1222	1.00E+01	6.32	0.00E+00	0.00E+00
	11	1387.83	1384 -	1390	5.89E+00	7.78	6.22E+00	5.00E+00
M	12	1457.58	1456 -	1465	7.28E+00	3.46	0.00E+00	0.00E+00
m	13	1460.93	1456 -	1465	1.75E+01	8.49	0.00E+00	0.00E+00
	14	1469.02	1466 -	1471	5.00E+00	4.47	0.00E+00	0.00E+00
	15	1720.72	1717 -	1723	1.00E+01	6.32	0.00E+00	0.00E+00
	16	1905.36	1901 -	1907	5.21E+00	6.34	3.57E+00	3.62E+00
	17	2317.10	2313 -	2319	5.00E+00	4.47	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 7:15:49AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
m	1	27.46	20 -	41	27.71	4.12E+01	36.11	2.20E+02	.....
	2	158.57	156 -	163	158.74	2.20E+01	25.77	9.60E+01	TE123M
	3	199.33	197 -	202	199.48	2.02E+01	18.60	5.17E+01	.....
	4	205.53	203 -	209	205.67	2.45E+01	21.18	6.49E+01	U-235
	5	492.76	491 -	495	492.76	1.07E+01	10.94	1.66E+01	.....
	6	609.41	604 -	614	609.35	3.36E+01	20.49	3.68E+01	BI-214
	7	658.44	651 -	665	658.36	3.17E+01	16.39	1.47E+01	AG-110M
	8	755.13	752 -	759	755.00	1.10E+01	13.71	2.40E+01	.....

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	9	882.84	878 -	886	882.66	6.91E+00	9.19	8.18E+00	.....
	10	1219.53	1216 -	1222	1219.20	1.00E+01	6.32	0.00E+00	.....
	11	1387.83	1384 -	1390	1387.43	5.89E+00	7.78	6.22E+00	.....
M	12	1457.58	1456 -	1465	1457.16	7.28E+00	3.46	0.00E+00	.....
m	13	1460.93	1456 -	1465	1460.51	1.75E+01	8.49	0.00E+00	K-40
	14	1469.02	1466 -	1471	1468.60	5.00E+00	4.47	0.00E+00	.....
	15	1720.72	1717 -	1723	1720.20	1.00E+01	6.32	0.00E+00	.....
	16	1905.36	1901 -	1907	1904.78	5.21E+00	6.34	3.57E+00	.....
	17	2317.10	2313 -	2319	2316.40	5.00E+00	4.47	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 7:15:49AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	1	27.46	4.12E+01	36.11	3.42E-03	1.58E-03
	2	158.57	2.20E+01	25.77	2.03E-02	1.55E-03
	3	199.33	2.02E+01	18.60	1.74E-02	1.36E-03
	4	205.53	2.45E+01	21.18	1.70E-02	1.33E-03
	5	492.76	1.07E+01	10.94	8.27E-03	7.36E-04
	6	609.41	3.36E+01	20.49	6.87E-03	6.20E-04
	7	658.44	3.17E+01	16.39	6.42E-03	5.71E-04
	8	755.13	1.10E+01	13.71	5.70E-03	4.91E-04
	9	882.84	6.91E+00	9.19	4.98E-03	3.87E-04
	10	1219.53	1.00E+01	6.32	3.80E-03	3.13E-04
	11	1387.83	5.89E+00	7.78	3.43E-03	2.80E-04
M	12	1457.58	7.28E+00	3.46	3.30E-03	2.70E-04
m	13	1460.93	1.75E+01	8.49	3.29E-03	2.69E-04
	14	1469.02	5.00E+00	4.47	3.28E-03	2.68E-04
	15	1720.72	1.00E+01	6.32	2.91E-03	2.30E-04
	16	1905.36	5.21E+00	6.34	2.71E-03	2.13E-04
	17	2317.10	5.00E+00	4.47	2.39E-03	2.13E-04

Analysis Report for 1507047-07

FEEBRISID-12 061-062

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 7:15:49AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	1	27.46	4.12E+01	36.11			4.12E+01	3.61E+01
	2	158.57	2.20E+01	25.77			2.20E+01	2.58E+01
	3	199.33	2.02E+01	18.60			2.02E+01	1.86E+01
	4	205.53	2.45E+01	21.18	2.05E+00	5.00E+00	2.25E+01	2.18E+01
	5	492.76	1.07E+01	10.94			1.07E+01	1.09E+01
	6	609.41	3.36E+01	20.49	8.51E+00	1.93E+00	2.51E+01	2.06E+01
	7	658.44	3.17E+01	16.39			3.17E+01	1.64E+01
	8	755.13	1.10E+01	13.71			1.10E+01	1.37E+01
	9	882.84	6.91E+00	9.19			6.91E+00	9.19E+00
	10	1219.53	1.00E+01	6.32			1.00E+01	6.32E+00
	11	1387.83	5.89E+00	7.78			5.89E+00	7.78E+00
M	12	1457.58	7.28E+00	3.46			7.28E+00	3.46E+00
m	13	1460.93	1.75E+01	8.49	2.41E+00	1.70E+00	1.50E+01	8.65E+00
	14	1469.02	5.00E+00	4.47			5.00E+00	4.47E+00
	15	1720.72	1.00E+01	6.32			1.00E+01	6.32E+00
	16	1905.36	5.21E+00	6.34			5.21E+00	6.34E+00
	17	2317.10	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-07

FEEBRISID-12 061-062

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 7:15:49AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	1	27.46	4.12E+01	36.11			4.12E+01	3.61E+01
	2	158.57	2.20E+01	25.77			2.20E+01	2.58E+01
	3	199.33	2.02E+01	18.60			2.02E+01	1.86E+01
	4	205.53	2.45E+01	21.18	2.05E+00	5.00E+00	2.25E+01	2.18E+01
	5	492.76	1.07E+01	10.94			1.07E+01	1.09E+01
	6	609.41	3.36E+01	20.49	8.51E+00	1.93E+00	2.51E+01	2.06E+01
	7	658.44	3.17E+01	16.39			3.17E+01	1.64E+01
	8	755.13	1.10E+01	13.71			1.10E+01	1.37E+01
	9	882.84	6.91E+00	9.19			6.91E+00	9.19E+00
	10	1219.53	1.00E+01	6.32			1.00E+01	6.32E+00
	11	1387.83	5.89E+00	7.78			5.89E+00	7.78E+00
M	12	1457.58	7.28E+00	3.46			7.28E+00	3.46E+00
m	13	1460.93	1.75E+01	8.49	2.41E+00	1.70E+00	1.50E+01	8.65E+00
	14	1469.02	5.00E+00	4.47			5.00E+00	4.47E+00
	15	1720.72	1.00E+01	6.32			1.00E+01	6.32E+00
	16	1905.36	5.21E+00	6.34			5.21E+00	6.34E+00
	17	2317.10	5.00E+00	4.47			5.00E+00	4.47E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.998	1460.81	*	10.67	3.13E+00	1.82E+00

Analysis Report for 1507047-07

FEEBRISID-12 061-062

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TE123M	0.970	159.00	*	84.10	1.11E-01	1.30E-01
BI-214	0.441	609.31	*	46.30	5.76E-01	4.75E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:15:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	1	27.46	1.14406E-02	43.83		
	3	199.33	5.60386E-03	46.10		
	4	205.53	6.24490E-03	48.40	Tol.	U-235
	5	492.76	2.96784E-03	51.21		
	7	658.44	8.79630E-03	25.87	Tol.	AG-110M
	8	755.13	3.05556E-03	62.32		
	9	882.84	1.91919E-03	66.52		
	10	1219.53	2.77778E-03	31.62	Sum	
	11	1387.83	1.63580E-03	66.04		
M	12	1457.58	2.02230E-03	23.79		
	14	1469.02	1.38889E-03	44.72		
	15	1720.72	2.77778E-03	31.62		
	16	1905.36	1.44841E-03	60.84		
	17	2317.10	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-07

FEEBRISID-12 061-062

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	3.13E+00	1.82E+00
TE123M	0.97	159.00	*	84.10	1.11E-01	1.30E-01
BI-214	0.44	609.31	*	46.30	5.76E-01	4.75E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.998	3.13E+00	1.82E+00	
TE123M	0.970	1.11E-01	1.30E-01	
BI-214	0.441	5.76E-01	4.75E-01	

Analysis Report for 1507047-07

FEEBRISID-12 061-062

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-07

FEEBRISID-12 061-062

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 7:15:49AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	1	27.46	1.14406E-02	43.83		
	3	199.33	5.60386E-03	46.10		
	4	205.53	6.24490E-03	48.40	Tol.	U-235
	5	492.76	2.96784E-03	51.21		
	7	658.44	8.79630E-03	25.87	Tol.	AG-110M
	8	755.13	3.05556E-03	62.32		
	9	882.84	1.91919E-03	66.52		
	10	1219.53	2.77778E-03	31.62	Sum	
	11	1387.83	1.63580E-03	66.04		
M	12	1457.58	2.02230E-03	23.79		
	14	1469.02	1.38889E-03	44.72		
	15	1720.72	2.77778E-03	31.62		
	16	1905.36	1.44841E-03	60.84		
	17	2317.10	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	1.21E+00	2.91E+00	2.91E+00
+	NA-22	1274.54	99.94	2.91E-03	3.05E-01	3.05E-01
+	NA-24	1368.53	99.99	9.20E+11	7.17E+12	8.65E+12

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	NA-24	2754.09		99.86	-1.95E+12	7.17E+12	7.17E+12
+	AL-26	1808.65		99.76	-5.22E-02	1.92E-01	1.92E-01
+	K-40	1460.81	*	10.67	3.13E+00	1.77E+00	1.77E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-6.13E-02	1.47E-01	1.47E-01
		78.34		96.00	-4.99E-03		1.47E-01
+	SC-46	889.25		99.98	2.17E-02	3.10E-01	3.10E-01
		1120.51		99.99	3.87E-02		3.39E-01
+	V-48	983.52		99.98	2.70E-01	9.92E-01	1.02E+00
		1312.10		97.50	-5.04E-01		9.92E-01
+	CR-51	320.08		9.83	-2.00E+00	3.87E+00	3.87E+00
+	MN-54	834.83		99.97	-5.20E-02	2.99E-01	2.99E-01
+	CO-56	846.75		99.96	-2.78E-02	3.52E-01	3.52E-01
		1037.75		14.03	5.47E-01		3.08E+00
		1238.25		67.00	4.17E-01		7.24E-01
		1771.40		15.51	-4.93E-01		1.96E+00
		2598.48		16.90	-7.38E-01		1.81E+00
+	CO-57	122.06		85.51	4.38E-02	1.42E-01	1.42E-01
		136.48		10.60	1.68E-01		1.22E+00
+	CO-58	810.76		99.40	1.02E-01	3.14E-01	3.14E-01
+	FE-59	1099.22		56.50	-2.17E-01	5.19E-01	5.19E-01
		1291.56		43.20	4.32E-01		1.01E+00
+	CO-60	1173.22		100.00	-2.82E-02	2.94E-01	3.13E-01
		1332.49		100.00	-1.91E-02		2.94E-01
+	ZN-65	1115.52		50.75	8.98E-02	5.72E-01	5.72E-01
+	GA-67	93.31		35.70	2.50E+02	1.77E+02	1.77E+02
		208.95		2.24	-2.95E+02		2.79E+03
		300.22		16.00	-6.86E+01		4.56E+02
+	SE-75	121.11		16.70	2.19E-01	2.24E-01	8.00E-01
		136.00		59.20	-1.07E-01		2.24E-01
		264.65		59.80	6.15E-02		3.33E-01
		279.53		25.20	2.17E-01		8.96E-01
		400.65		11.40	-1.07E-01		2.15E+00
+	RB-82	776.52		13.00	3.08E-01	4.34E+00	4.34E+00
+	RB-83	520.41		46.00	1.26E-01	6.67E-01	6.67E-01
		529.64		30.30	-9.92E-02		8.94E-01
		552.65		16.40	-3.92E-01		1.63E+00
+	KR-85	513.99		0.43	9.96E+01	9.24E+01	9.24E+01
+	SR-85	513.99		99.27	5.84E-01	5.42E-01	5.42E-01
+	Y-88	898.02		93.40	4.30E-02	3.59E-01	3.59E-01
		1836.01		99.38	9.52E-02		4.48E-01
+	NB-93M	16.57		9.43	1.81E+02	2.93E+02	2.93E+02
+	NB-94	702.63		100.00	-8.75E-03	2.41E-01	2.95E-01
		871.10		100.00	-9.66E-03		2.41E-01
+	NB-95	765.79		99.81	1.50E-01	4.94E-01	4.94E-01
+	NB-95M	235.69		25.00	2.63E+01	1.61E+02	1.61E+02
+	ZR-95	724.18		43.70	-8.93E-02	7.55E-01	8.59E-01

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	ZR-95	756.72		55.30	1.84E-01	7.55E-01	7.55E-01
+	MO-99	181.06		6.20	-8.90E+01	2.27E+03	2.43E+03
		739.58		12.80	-2.86E+02		2.27E+03
		778.00		4.50	9.32E+02		6.73E+03
+	RU-103	497.08		89.00	-5.73E-02	3.29E-01	3.29E-01
+	RU-106	621.84		9.80	-6.91E-01	2.48E+00	2.48E+00
+	AG-108M	433.93		89.90	-1.18E-02	2.29E-01	2.29E-01
		614.37		90.40	-1.98E-03		2.53E-01
		722.95		90.50	-1.12E-01		2.99E-01
+	CD-109	88.03		3.72	-1.03E+00	3.65E+00	3.65E+00
+	AG-110M	657.75		93.14	-8.21E-02	3.10E-01	3.10E-01
		677.61		10.53	-6.93E-01		2.41E+00
		706.67		16.46	8.98E-01		2.03E+00
		763.93		21.98	-8.27E-02		1.32E+00
		884.67		71.63	-1.40E-01		3.51E-01
		1384.27		23.94	-4.80E-02		1.74E+00
+	CD-113M	263.70		0.02	-1.99E+02	7.20E+02	7.20E+02
+	SN-113	255.12		1.93	-5.06E+00	3.37E-01	1.01E+01
		391.69		64.90	-2.05E-01		3.37E-01
+	TE123M	159.00	*	84.10	1.11E-01	2.13E-01	2.13E-01
+	SB-124	602.71		97.87	6.75E-03	3.41E-01	3.41E-01
		645.85		7.26	-2.13E-01		4.28E+00
		722.78		11.10	-1.26E+00		3.36E+00
		1691.02		49.00	-4.07E-02		8.38E-01
+	I-125	35.49		6.49	5.59E-01	1.10E+01	1.10E+01
+	SB-125	176.33		6.89	8.84E-01	6.39E-01	1.99E+00
		427.89		29.33	-1.79E-01		6.39E-01
		463.38		10.35	-6.46E-01		2.18E+00
		600.56		17.80	4.21E-01		1.44E+00
		635.90		11.32	-5.88E-01		2.23E+00
+	SB-126	414.70		83.30	9.02E-02	1.11E+00	1.19E+00
		666.33		99.60	3.06E-02		1.11E+00
		695.00		99.60	2.57E-01		1.40E+00
		720.50		53.80	1.34E+00		2.62E+00
+	SN-126	87.57		37.00	-9.92E-02	3.52E-01	3.52E-01
+	SB-127	473.00		25.00	-3.27E+00	1.27E+02	1.43E+02
		685.20		35.70	5.06E+01		1.27E+02
		783.80		14.70	-8.21E+01		2.40E+02
+	I-129	29.78		57.00	5.45E-01	1.78E+00	1.78E+00
		33.60		13.20	-1.54E-02		4.80E+00
		39.58		7.52	1.32E+00		4.89E+00
+	I-131	284.30		6.05	-1.82E+00	2.86E+00	3.19E+01
		364.48		81.20	1.35E-01		2.86E+00
		636.97		7.26	-1.94E+01		3.90E+01
		722.89		1.80	-6.28E+01		1.67E+02
+	TE-132	49.72		13.10	-1.07E+03	7.62E+01	4.76E+02
		228.16		88.00	4.45E+00		7.62E+01
+	BA-133	81.00		33.00	-1.77E-01	3.46E-01	3.81E-01
		302.84		17.80	-1.17E-01		9.40E-01

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-133	356.01	60.00	-2.88E-01	3.46E-01	3.46E-01
+	I-133	529.87	86.30	-1.43E+08	1.28E+09	1.28E+09
+	XE-133	81.00	38.00	-6.15E+00	1.33E+01	1.33E+01
+	CS-134	563.23	8.38	-1.04E+00	2.81E-01	2.52E+00
		569.32	15.43	6.66E-02		1.38E+00
		604.70	97.60	-1.25E-02		2.88E-01
		795.84	85.40	-4.19E-02		2.81E-01
		801.93	8.73	5.15E-01		2.99E+00
+	CS-135	268.24	16.00	-4.24E-01	1.06E+00	1.06E+00
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	6.32E-01	1.09E+00	6.86E+00
		163.89	4.61	-1.78E+00		1.01E+01
		176.55	13.56	-2.37E-01		4.03E+00
		273.65	12.66	9.22E-01		6.32E+00
		340.57	48.50	7.02E-01		1.92E+00
		818.50	99.70	1.09E-02		1.09E+00
		1048.07	79.60	3.11E-01		1.62E+00
		1235.34	19.70	-2.04E+00		6.82E+00
+	CS-137	661.65	85.12	1.55E-01	3.36E-01	3.36E-01
+	LA-138	788.74	34.00	2.00E-01	3.08E-01	7.62E-01
		1435.80	66.00	1.66E-02		3.08E-01
+	CE-139	165.85	80.35	-6.14E-02	1.65E-01	1.65E-01
+	BA-140	162.64	6.70	-1.04E+00	4.08E+00	7.01E+00
		304.84	4.50	-6.46E+00		1.48E+01
		423.70	3.20	7.16E+00		3.15E+01
		437.55	2.00	-1.51E+01		4.62E+01
		537.32	25.00	2.51E-01		4.08E+00
+	LA-140	328.77	20.50	-6.69E-01	1.36E+00	4.60E+00
		487.03	45.50	4.21E-01		2.14E+00
		815.85	23.50	6.63E-01		5.17E+00
		1596.49	95.49	4.53E-01		1.36E+00
+	CE-141	145.44	48.40	1.04E-01	5.03E-01	5.03E-01
+	CE-143	57.36	11.80	8.40E+04	6.15E+05	1.75E+06
		293.26	42.00	7.58E+04		6.15E+05
		664.55	5.20	-1.45E+05		6.98E+06
+	CE-144	133.54	10.80	-2.88E-01	1.14E+00	1.14E+00
+	PM-144	476.78	42.00	1.11E-01	2.39E-01	5.39E-01
		618.01	98.60	-1.50E-02		2.39E-01
		696.49	99.49	-8.30E-02		2.84E-01
+	PM-145	36.85	21.70	-2.21E-01	1.14E+00	2.14E+00
		37.36	39.70	1.22E+00		1.14E+00
		42.30	15.10	6.70E-01		1.84E+00
		72.40	2.31	7.99E-01		6.47E+00
+	PM-146	453.90	39.94	1.23E-01	5.86E-01	5.86E-01
		735.90	14.01	4.97E-01		1.92E+00
		747.13	13.10	7.15E-02		1.91E+00
+	ND-147	91.11	28.90	6.56E-01	3.17E+00	3.17E+00

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	ND-147	531.02	13.10	2.40E+00	3.17E+00	1.03E+01
+	PM-149	285.90	3.10	-3.09E+03	3.58E+04	3.58E+04
+	EU-152	121.78	20.50	1.71E-01	5.52E-01	5.52E-01
		244.69	5.40	6.43E-01		3.63E+00
		344.27	19.13	5.18E-01		1.12E+00
		778.89	9.20	1.01E+00		2.89E+00
		964.01	10.40	9.15E-01		2.29E+00
		1085.78	7.22	1.38E+00		4.05E+00
		1112.02	9.60	-6.83E-01		2.63E+00
		1407.95	14.94	-5.80E-01		1.74E+00
+	GD-153	97.43	31.30	-2.17E-01	3.66E-01	3.66E-01
		103.18	22.20	1.59E-01		5.68E-01
+	EU-154	123.07	40.50	-3.70E-02	2.73E-01	2.73E-01
		723.30	19.70	-5.19E-01		1.38E+00
		873.19	11.50	-4.17E-01		1.91E+00
		996.32	10.30	1.59E-01		1.71E+00
		1004.76	17.90	3.83E-02		1.30E+00
		1274.45	35.50	8.06E-03		8.47E-01
+	EU-155	86.50	30.90	9.40E-02	4.34E-01	4.34E-01
		105.30	20.70	2.08E-01		5.70E-01
+	EU-156	811.77	10.40	3.83E+00	9.15E+00	9.15E+00
		1153.47	7.20	-2.85E+00		1.10E+01
		1230.71	8.90	1.67E-01		1.17E+01
+	HO-166M	184.41	72.60	1.74E-01	2.40E-01	2.40E-01
		280.45	29.60	-1.09E-01		6.19E-01
		410.94	11.10	1.01E-01		1.89E+00
		711.69	54.10	-1.40E-01		4.53E-01
+	TM-171	66.72	0.14	-1.31E+02	1.04E+02	1.04E+02
+	HF-172	81.75	4.52	4.15E-01	9.91E-01	2.99E+00
		125.81	11.30	-3.33E-01		9.91E-01
+	LU-172	181.53	20.60	-1.07E+01	8.83E+00	1.17E+01
		810.06	16.63	-3.69E-01		2.34E+01
		912.12	15.25	8.91E-01		3.23E+01
		1093.66	62.50	1.52E+00		8.83E+00
+	LU-173	100.72	5.24	3.86E-02	8.40E-01	2.22E+00
		272.11	21.20	-2.30E-01		8.40E-01
+	HF-175	343.40	84.00	1.22E-01	3.45E-01	3.45E-01
+	LU-176	88.34	13.30	-1.34E+00	1.65E-01	9.97E-01
		201.83	86.00	-1.01E-02		1.86E-01
		306.78	94.00	2.62E-02		1.65E-01
+	TA-182	67.75	41.20	-1.66E-01	4.00E-01	4.00E-01
		1121.30	34.90	1.09E-01		9.14E-01
		1189.05	16.23	-8.24E-01		1.48E+00
		1221.41	26.98	0.00E+00		1.34E+00
		1231.02	11.44	9.31E-01		3.01E+00
+	IR-192	308.46	29.68	-5.71E-01	6.35E-01	6.35E-01
		468.07	48.10	1.48E-01		6.53E-01
+	HG-203	279.19	77.30	8.30E-02	3.66E-01	3.66E-01
+	BI-207	569.67	97.72	6.38E-02	2.25E-01	2.25E-01

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BI-207	1063.62		74.90	-3.44E-02	2.25E-01	3.82E-01
+	TL-208	583.14		30.22	-5.25E-01	7.22E-01	7.22E-01
		860.37		4.48	-2.13E-01		4.51E+00
		2614.66		35.85	4.25E-02		1.19E+00
+	BI-210M	262.00		45.00	1.34E-01	3.94E-01	3.94E-01
		300.00		23.00	-1.25E-01		8.34E-01
+	PB-210	46.50		4.25	4.96E+00	5.91E+00	5.91E+00
+	PB-211	404.84		2.90	-1.74E-01	7.35E+00	7.35E+00
		831.96		2.90	-1.54E+00		9.66E+00
+	BI-212	727.17		11.80	-7.09E-01	2.24E+00	2.24E+00
		1620.62		2.75	-2.68E+00		1.31E+01
+	PB-212	238.63		44.60	3.67E-01	4.69E-01	4.69E-01
		300.09		3.41	-8.45E-01		5.63E+00
+	BI-214	609.31	*	46.30	5.76E-01	7.41E-01	7.41E-01
		1120.29		15.10	2.03E-01		1.78E+00
		1764.49		15.80	-7.55E-01		1.19E+00
		2204.22		4.98	5.96E-01		7.15E+00
+	PB-214	295.21		19.19	-5.15E-03	5.71E-01	1.05E+00
		351.92		37.19	1.33E-02		5.71E-01
+	RN-219	401.80		6.50	1.08E+00	3.30E+00	3.30E+00
+	RA-223	323.87		3.88	-2.27E+00	4.86E+00	4.86E+00
+	RA-224	240.98		3.95	6.67E-01	5.23E+00	5.23E+00
+	RA-225	40.00		31.00	1.16E+00	4.29E+00	4.29E+00
+	RA-226	186.21		3.28	3.22E+00	5.34E+00	5.34E+00
+	TH-227	50.10		8.40	-4.33E+00	1.64E+00	1.92E+00
		236.00		11.50	2.67E-01		1.64E+00
		256.20		6.30	-3.08E-01		2.71E+00
+	AC-228	338.32		11.40	-1.12E+00	8.62E-01	1.58E+00
		911.07		27.70	-3.74E-01		8.62E-01
		969.11		16.60	-2.39E-01		1.15E+00
+	TH-230	48.44		16.90	8.83E-01	1.28E+00	1.28E+00
		62.85		4.60	6.88E-01		4.00E+00
		67.67		0.37	-1.57E+01		3.77E+01
+	PA-231	283.67		1.60	-6.17E-01	7.24E+00	1.08E+01
		302.67		2.30	-8.97E-01		7.24E+00
+	TH-231	25.64		14.70	-1.87E+00	1.94E+00	1.35E+01
		84.21		6.40	-1.10E+00		1.94E+00
+	PA-233	311.98		38.60	2.32E-01	9.45E-01	9.45E-01
+	PA-234	131.20		20.40	2.67E-01	6.06E-01	6.06E-01
		733.99		8.80	1.42E-01		2.94E+00
		946.00		12.00	-3.24E-01		2.16E+00
+	PA-234M	1001.03		0.92	3.55E+00	2.32E+01	2.32E+01
+	TH-234	63.29		3.80	7.49E+00	5.09E+00	5.09E+00
+	U-235	143.76		10.50	2.61E-01	1.30E+00	1.30E+00
		163.35		4.70	-3.99E-01		2.27E+00
		205.31		4.70	4.90E-01		3.42E+00
+	NP-237	86.50		12.60	2.28E-01	1.05E+00	1.05E+00

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NP-239	106.10	22.70	-5.01E+02	1.77E+03	1.77E+03
		228.18	10.70	3.58E+02		6.14E+03
		277.60	14.10	-1.52E+03		4.78E+03
+	AM-241	59.54	35.90	-7.84E-01	3.96E-01	3.96E-01
+	AM-243	74.67	66.00	9.32E-02	2.32E-01	2.32E-01
+	CM-243	209.75	3.29	-4.25E-01	1.29E+00	4.85E+00
		228.14	10.60	9.69E-02		1.66E+00
		277.60	14.00	-4.09E-01		1.29E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	2.91E+00	2.91E+00	1.21E+00	1.29E+00
	NA-22	1274.54		99.94	3.05E-01	3.05E-01	2.91E-03	1.25E-01
	NA-24	1368.53		99.99	8.65E+12	7.17E+12	9.20E+11	3.49E+12
		2754.09		99.86	7.17E+12		-1.95E+12	2.27E+12
	AL-26	1808.65		99.76	1.92E-01	1.92E-01	-5.22E-02	6.07E-02
+	K-40	1460.81	*	10.67	1.77E+00	1.77E+00	3.13E+00	6.06E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	1.47E-01	1.47E-01	-6.13E-02	6.91E-02
		78.34		96.00	1.47E-01		-4.99E-03	6.90E-02
	SC-46	889.25		99.98	3.10E-01	3.10E-01	2.17E-02	1.30E-01
		1120.51		99.99	3.39E-01		3.87E-02	1.39E-01
	V-48	983.52		99.98	1.02E+00	9.92E-01	2.70E-01	4.36E-01
		1312.10		97.50	9.92E-01		-5.04E-01	4.01E-01
	CR-51	320.08		9.83	3.87E+00	3.87E+00	-2.00E+00	1.77E+00
	MN-54	834.83		99.97	2.99E-01	2.99E-01	-5.20E-02	1.29E-01

Analysis Report for 1507047-07

FEEBRISID-12 061-062

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	846.75	99.96	3.52E-01	3.52E-01	-2.78E-02	1.52E-01
	1037.75	14.03	3.08E+00		5.47E-01	1.33E+00
	1238.25	67.00	7.24E-01		4.17E-01	3.12E-01
	1771.40	15.51	1.96E+00		-4.93E-01	6.96E-01
	2598.48	16.90	1.81E+00		-7.38E-01	5.73E-01
CO-57	122.06	85.51	1.42E-01	1.42E-01	4.38E-02	6.55E-02
	136.48	10.60	1.22E+00		1.68E-01	5.66E-01
CO-58	810.76	99.40	3.14E-01	3.14E-01	1.02E-01	1.33E-01
FE-59	1099.22	56.50	5.19E-01	5.19E-01	-2.17E-01	1.94E-01
	1291.56	43.20	1.01E+00		4.32E-01	4.10E-01
CO-60	1173.22	100.00	3.13E-01	2.94E-01	-2.82E-02	1.31E-01
	1332.49	100.00	2.94E-01		-1.91E-02	1.19E-01
ZN-65	1115.52	50.75	5.72E-01	5.72E-01	8.98E-02	2.34E-01
GA-67	93.31	35.70	1.77E+02	1.77E+02	2.50E+02	8.39E+01
	208.95	2.24	2.79E+03		-2.95E+02	1.29E+03
	300.22	16.00	4.56E+02		-6.86E+01	2.10E+02
SE-75	121.11	16.70	8.00E-01	2.24E-01	2.19E-01	3.70E-01
	136.00	59.20	2.24E-01		-1.07E-01	1.03E-01
	264.65	59.80	3.33E-01		6.15E-02	1.53E-01
	279.53	25.20	8.96E-01		2.17E-01	4.14E-01
	400.65	11.40	2.15E+00		-1.07E-01	9.70E-01
RB-82	776.52	13.00	4.34E+00	4.34E+00	3.08E-01	1.88E+00
RB-83	520.41	46.00	6.67E-01	6.67E-01	1.26E-01	2.99E-01
	529.64	30.30	8.94E-01		-9.92E-02	3.94E-01
	552.65	16.40	1.63E+00		-3.92E-01	7.15E-01
KR-85	513.99	0.43	9.24E+01	9.24E+01	9.96E+01	4.33E+01
SR-85	513.99	99.27	5.42E-01	5.42E-01	5.84E-01	2.54E-01
Y-88	898.02	93.40	3.59E-01	3.59E-01	4.30E-02	1.54E-01
	1836.01	99.38	4.48E-01		9.52E-02	1.81E-01
NB-93M	16.57	9.43	2.93E+02	2.93E+02	1.81E+02	1.40E+02
NB-94	702.63	100.00	2.95E-01	2.41E-01	-8.75E-03	1.31E-01
	871.10	100.00	2.41E-01		-9.66E-03	1.01E-01
NB-95	765.79	99.81	4.94E-01	4.94E-01	1.50E-01	2.17E-01
NB-95M	235.69	25.00	1.61E+02	1.61E+02	2.63E+01	7.52E+01
ZR-95	724.18	43.70	8.59E-01	7.55E-01	-8.93E-02	3.78E-01
	756.72	55.30	7.55E-01		1.84E-01	3.35E-01
MO-99	181.06	6.20	2.43E+03	2.27E+03	-8.90E+01	1.12E+03
	739.58	12.80	2.27E+03		-2.86E+02	9.80E+02
	778.00	4.50	6.73E+03		9.32E+02	2.91E+03
RU-103	497.08	89.00	3.29E-01	3.29E-01	-5.73E-02	1.42E-01
RU-106	621.84	9.80	2.48E+00	2.48E+00	-6.91E-01	1.08E+00
AG-108M	433.93	89.90	2.29E-01	2.29E-01	-1.18E-02	1.02E-01
	614.37	90.40	2.53E-01		-1.98E-03	1.10E-01
	722.95	90.50	2.99E-01		-1.12E-01	1.31E-01
CD-109	88.03	3.72	3.65E+00	3.65E+00	-1.03E+00	1.71E+00
AG-110M	657.75	93.14	3.10E-01	3.10E-01	-8.21E-02	1.37E-01
	677.61	10.53	2.41E+00		-6.93E-01	1.04E+00
	706.67	16.46	2.03E+00		8.98E-01	9.05E-01
	763.93	21.98	1.32E+00		-8.27E-02	5.73E-01
	884.67	71.63	3.51E-01		-1.40E-01	1.46E-01
	1384.27	23.94	1.74E+00		-4.80E-02	7.41E-01
CD-113M	263.70	0.02	7.20E+02	7.20E+02	-1.99E+02	3.29E+02
SN-113	255.12	1.93	1.01E+01	3.37E-01	-5.06E+00	4.62E+00

Analysis Report for 1507047-07

FEEBRISID-12 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SN-113	391.69		64.90	3.37E-01	3.37E-01	-2.05E-01	1.50E-01
+	TE123M	159.00	*	84.10	2.13E-01	2.13E-01	1.11E-01	9.95E-02
	SB-124	602.71		97.87	3.41E-01	3.41E-01	6.75E-03	1.51E-01
		645.85		7.26	4.28E+00		-2.13E-01	1.85E+00
		722.78		11.10	3.36E+00		-1.26E+00	1.47E+00
		1691.02		49.00	8.38E-01		-4.07E-02	3.25E-01
	I-125	35.49		6.49	1.10E+01	1.10E+01	5.59E-01	5.24E+00
	SB-125	176.33		6.89	1.99E+00	6.39E-01	8.84E-01	9.19E-01
		427.89		29.33	6.39E-01		-1.79E-01	2.83E-01
		463.38		10.35	2.18E+00		-6.46E-01	9.78E-01
		600.56		17.80	1.44E+00		4.21E-01	6.41E-01
		635.90		11.32	2.23E+00		-5.88E-01	9.81E-01
	SB-126	414.70		83.30	1.19E+00	1.11E+00	9.02E-02	5.36E-01
		666.33		99.60	1.11E+00		3.06E-02	4.79E-01
		695.00		99.60	1.40E+00		2.57E-01	6.23E-01
		720.50		53.80	2.62E+00		1.34E+00	1.16E+00
	SN-126	87.57		37.00	3.52E-01	3.52E-01	-9.92E-02	1.65E-01
	SB-127	473.00		25.00	1.43E+02	1.27E+02	-3.27E+00	6.44E+01
		685.20		35.70	1.27E+02		5.06E+01	5.64E+01
		783.80		14.70	2.40E+02		-8.21E+01	1.02E+02
	I-129	29.78		57.00	1.78E+00	1.78E+00	5.45E-01	8.51E-01
		33.60		13.20	4.80E+00		-1.54E-02	2.29E+00
		39.58		7.52	4.89E+00		1.32E+00	2.32E+00
	I-131	284.30		6.05	3.19E+01	2.86E+00	-1.82E+00	1.46E+01
		364.48		81.20	2.86E+00		1.35E-01	1.30E+00
		636.97		7.26	3.90E+01		-1.94E+01	1.72E+01
		722.89		1.80	1.67E+02		-6.28E+01	7.32E+01
	TE-132	49.72		13.10	4.76E+02	7.62E+01	-1.07E+03	2.21E+02
		228.16		88.00	7.62E+01		4.45E+00	3.54E+01
	BA-133	81.00		33.00	3.81E-01	3.46E-01	-1.77E-01	1.78E-01
		302.84		17.80	9.40E-01		-1.17E-01	4.26E-01
		356.01		60.00	3.46E-01		-2.88E-01	1.58E-01
	I-133	529.87		86.30	1.28E+09	1.28E+09	-1.43E+08	5.66E+08
	XE-133	81.00		38.00	1.33E+01	1.33E+01	-6.15E+00	6.19E+00
	CS-134	563.23		8.38	2.52E+00	2.81E-01	-1.04E+00	1.10E+00
		569.32		15.43	1.38E+00		6.66E-02	6.00E-01
		604.70		97.60	2.88E-01		-1.25E-02	1.29E-01
		795.84		85.40	2.81E-01		-4.19E-02	1.18E-01
		801.93		8.73	2.99E+00		5.15E-01	1.28E+00
	CS-135	268.24		16.00	1.06E+00	1.06E+00	-4.24E-01	4.84E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	6.86E+00	1.09E+00	6.32E-01	3.15E+00
		163.89		4.61	1.01E+01		-1.78E+00	4.58E+00
		176.55		13.56	4.03E+00		-2.37E-01	1.85E+00
		273.65		12.66	6.32E+00		9.22E-01	2.91E+00
		340.57		48.50	1.92E+00		7.02E-01	8.81E-01
		818.50		99.70	1.09E+00		1.09E-02	4.63E-01
		1048.07		79.60	1.62E+00		3.11E-01	6.83E-01
		1235.34		19.70	6.82E+00		-2.04E+00	2.83E+00
	CS-137	661.65		85.12	3.36E-01	3.36E-01	1.55E-01	1.50E-01
	LA-138	788.74		34.00	7.62E-01	3.08E-01	2.00E-01	3.28E-01

Analysis Report for 1507047-07

FEEBRISID-12 061-062

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
LA-138	1435.80	66.00	3.08E-01	3.08E-01	1.66E-02	1.09E-01
CE-139	165.85	80.35	1.65E-01	1.65E-01	-6.14E-02	7.51E-02
BA-140	162.64	6.70	7.01E+00	4.08E+00	-1.04E+00	3.17E+00
	304.84	4.50	1.48E+01		-6.46E+00	6.60E+00
	423.70	3.20	3.15E+01		7.16E+00	1.43E+01
	437.55	2.00	4.62E+01		-1.51E+01	2.07E+01
	537.32	25.00	4.08E+00		2.51E-01	1.80E+00
LA-140	328.77	20.50	4.60E+00	1.36E+00	-6.69E-01	2.11E+00
	487.03	45.50	2.14E+00		4.21E-01	9.54E-01
	815.85	23.50	5.17E+00		6.63E-01	2.22E+00
	1596.49	95.49	1.36E+00		4.53E-01	5.26E-01
CE-141	145.44	48.40	5.03E-01	5.03E-01	1.04E-01	2.34E-01
CE-143	57.36	11.80	1.75E+06	6.15E+05	8.40E+04	8.18E+05
	293.26	42.00	6.15E+05		7.58E+04	2.84E+05
	664.55	5.20	6.98E+06		-1.45E+05	3.10E+06
CE-144	133.54	10.80	1.14E+00	1.14E+00	-2.88E-01	5.26E-01
PM-144	476.78	42.00	5.39E-01	2.39E-01	1.11E-01	2.41E-01
	618.01	98.60	2.39E-01		-1.50E-02	1.04E-01
	696.49	99.49	2.84E-01		-8.30E-02	1.25E-01
PM-145	36.85	21.70	2.14E+00	1.14E+00	-2.21E-01	1.02E+00
	37.36	39.70	1.14E+00		1.22E+00	5.45E-01
	42.30	15.10	1.84E+00		6.70E-01	8.68E-01
	72.40	2.31	6.47E+00		7.99E-01	3.05E+00
PM-146	453.90	39.94	5.86E-01	5.86E-01	1.23E-01	2.65E-01
	735.90	14.01	1.92E+00		4.97E-01	8.40E-01
	747.13	13.10	1.91E+00		7.15E-02	8.21E-01
ND-147	91.11	28.90	3.17E+00	3.17E+00	6.56E-01	1.50E+00
	531.02	13.10	1.03E+01		2.40E+00	4.59E+00
PM-149	285.90	3.10	3.58E+04	3.58E+04	-3.09E+03	1.64E+04
EU-152	121.78	20.50	5.52E-01	5.52E-01	1.71E-01	2.55E-01
	244.69	5.40	3.63E+00		6.43E-01	1.69E+00
	344.27	19.13	1.12E+00		5.18E-01	5.13E-01
	778.89	9.20	2.89E+00		1.01E+00	1.25E+00
	964.01	10.40	2.29E+00		9.15E-01	9.39E-01
	1085.78	7.22	4.05E+00		1.38E+00	1.69E+00
	1112.02	9.60	2.63E+00		-6.83E-01	1.06E+00
	1407.95	14.94	1.74E+00		-5.80E-01	6.74E-01
GD-153	97.43	31.30	3.66E-01	3.66E-01	-2.17E-01	1.69E-01
	103.18	22.20	5.68E-01		1.59E-01	2.64E-01
EU-154	123.07	40.50	2.73E-01	2.73E-01	-3.70E-02	1.26E-01
	723.30	19.70	1.38E+00		-5.19E-01	6.05E-01
	873.19	11.50	1.91E+00		-4.17E-01	7.82E-01
	996.32	10.30	1.71E+00		1.59E-01	6.39E-01
	1004.76	17.90	1.30E+00		3.83E-02	5.24E-01
	1274.45	35.50	8.47E-01		8.06E-03	3.47E-01
EU-155	86.50	30.90	4.34E-01	4.34E-01	9.40E-02	2.04E-01
	105.30	20.70	5.70E-01		2.08E-01	2.65E-01
EU-156	811.77	10.40	9.15E+00	9.15E+00	3.83E+00	3.94E+00
	1153.47	7.20	1.10E+01		-2.85E+00	4.25E+00
	1230.71	8.90	1.17E+01		1.67E-01	4.79E+00
HO-166M	184.41	72.60	2.40E-01	2.40E-01	1.74E-01	1.12E-01
	280.45	29.60	6.19E-01		-1.09E-01	2.85E-01
	410.94	11.10	1.89E+00		1.01E-01	8.52E-01

Analysis Report for 1507047-07

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	711.69		54.10	4.53E-01	2.40E-01	-1.40E-01	1.96E-01
	TM-171	66.72		0.14	1.04E+02	1.04E+02	-1.31E+02	4.90E+01
	HF-172	81.75		4.52	2.99E+00	9.91E-01	4.15E-01	1.40E+00
		125.81		11.30	9.91E-01		-3.33E-01	4.56E-01
	LU-172	181.53		20.60	1.17E+01	8.83E+00	-1.07E+01	5.37E+00
		810.06		16.63	2.34E+01		-3.69E-01	9.71E+00
		912.12		15.25	3.23E+01		8.91E-01	1.37E+01
		1093.66		62.50	8.83E+00		1.52E+00	3.73E+00
	LU-173	100.72		5.24	2.22E+00	8.40E-01	3.86E-02	1.03E+00
		272.11		21.20	8.40E-01		-2.30E-01	3.84E-01
	HF-175	343.40		84.00	3.45E-01	3.45E-01	1.22E-01	1.59E-01
	LU-176	88.34		13.30	9.97E-01	1.65E-01	-1.34E+00	4.68E-01
		201.83		86.00	1.86E-01		-1.01E-02	8.64E-02
		306.78		94.00	1.65E-01		2.62E-02	7.42E-02
	TA-182	67.75		41.20	4.00E-01	4.00E-01	-1.66E-01	1.88E-01
		1121.30		34.90	9.14E-01		1.09E-01	3.75E-01
		1189.05		16.23	1.48E+00		-8.24E-01	5.54E-01
		1221.41		26.98	1.34E+00		0.00E+00	5.56E-01
		1231.02		11.44	3.01E+00		9.31E-01	1.23E+00
	IR-192	308.46		29.68	6.35E-01	6.35E-01	-5.71E-01	2.82E-01
		468.07		48.10	6.53E-01		1.48E-01	2.96E-01
	HG-203	279.19		77.30	3.66E-01	3.66E-01	8.30E-02	1.68E-01
	BI-207	569.67		97.72	2.25E-01	2.25E-01	6.38E-02	9.86E-02
		1063.62		74.90	3.82E-01		-3.44E-02	1.60E-01
	TL-208	583.14		30.22	7.22E-01	7.22E-01	-5.25E-01	3.15E-01
		860.37		4.48	4.51E+00		-2.13E-01	1.82E+00
		2614.66		35.85	1.19E+00		4.25E-02	4.73E-01
	BI-210M	262.00		45.00	3.94E-01	3.94E-01	1.34E-01	1.81E-01
		300.00		23.00	8.34E-01		-1.25E-01	3.83E-01
	PB-210	46.50		4.25	5.91E+00	5.91E+00	4.96E+00	2.80E+00
	PB-211	404.84		2.90	7.35E+00	7.35E+00	-1.74E-01	3.33E+00
		831.96		2.90	9.66E+00		-1.54E+00	4.18E+00
	BI-212	727.17		11.80	2.24E+00	2.24E+00	-7.09E-01	9.78E-01
		1620.62		2.75	1.31E+01		-2.68E+00	5.38E+00
	PB-212	238.63		44.60	4.69E-01	4.69E-01	3.67E-01	2.20E-01
		300.09		3.41	5.63E+00		-8.45E-01	2.58E+00
+	BI-214	609.31	*	46.30	7.41E-01	7.41E-01	5.76E-01	3.40E-01
		1120.29		15.10	1.78E+00		2.03E-01	7.30E-01
		1764.49		15.80	1.19E+00		-7.55E-01	3.76E-01
		2204.22		4.98	7.15E+00		5.96E-01	2.77E+00
	PB-214	295.21		19.19	1.05E+00	5.71E-01	-5.15E-03	4.84E-01
		351.92		37.19	5.71E-01		1.33E-02	2.61E-01
	RN-219	401.80		6.50	3.30E+00	3.30E+00	1.08E+00	1.50E+00
	RA-223	323.87		3.88	4.86E+00	4.86E+00	-2.27E+00	2.21E+00
	RA-224	240.98		3.95	5.23E+00	5.23E+00	6.67E-01	2.45E+00
	RA-225	40.00		31.00	4.29E+00	4.29E+00	1.16E+00	2.04E+00
	RA-226	186.21		3.28	5.34E+00	5.34E+00	3.22E+00	2.50E+00
	TH-227	50.10		8.40	1.92E+00	1.64E+00	-4.33E+00	8.91E-01
		236.00		11.50	1.64E+00		2.67E-01	7.64E-01
		256.20		6.30	2.71E+00		-3.08E-01	1.24E+00
	AC-228	338.32		11.40	1.58E+00	8.62E-01	-1.12E+00	7.14E-01
		911.07		27.70	8.62E-01		-3.74E-01	3.58E-01
		969.11		16.60	1.15E+00		-2.39E-01	4.45E-01

Analysis Report for 1507047-07

FEEBRISID-12 061-062

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-230	48.44	16.90	1.28E+00	1.28E+00	8.83E-01	6.05E-01
	62.85	4.60	4.00E+00		6.88E-01	1.90E+00
	67.67	0.37	3.77E+01		-1.57E+01	1.76E+01
PA-231	283.67	1.60	1.08E+01	7.24E+00	-6.17E-01	4.94E+00
	302.67	2.30	7.24E+00		-8.97E-01	3.28E+00
TH-231	25.64	14.70	1.35E+01	1.94E+00	-1.87E+00	6.50E+00
	84.21	6.40	1.94E+00		-1.10E+00	9.08E-01
PA-233	311.98	38.60	9.45E-01	9.45E-01	2.32E-01	4.30E-01
PA-234	131.20	20.40	6.06E-01	6.06E-01	2.67E-01	2.81E-01
	733.99	8.80	2.94E+00		1.42E-01	1.28E+00
	946.00	12.00	2.16E+00		-3.24E-01	9.04E-01
PA-234M	1001.03	0.92	2.32E+01	2.32E+01	3.55E+00	9.22E+00
TH-234	63.29	3.80	5.09E+00	5.09E+00	7.49E+00	2.43E+00
U-235	143.76	10.50	1.30E+00	1.30E+00	2.61E-01	6.05E-01
	163.35	4.70	2.27E+00		-3.99E-01	1.03E+00
	205.31	4.70	3.42E+00		4.90E-01	1.59E+00
NP-237	86.50	12.60	1.05E+00	1.05E+00	2.28E-01	4.95E-01
NP-239	106.10	22.70	1.77E+03	1.77E+03	-5.01E+02	8.17E+02
	228.18	10.70	6.14E+03		3.58E+02	2.85E+03
	277.60	14.10	4.78E+03		-1.52E+03	2.19E+03
AM-241	59.54	35.90	3.96E-01	3.96E-01	-7.84E-01	1.84E-01
AM-243	74.67	66.00	2.32E-01	2.32E-01	9.32E-02	1.10E-01
CM-243	209.75	3.29	4.85E+00	1.29E+00	-4.25E-01	2.24E+00
	228.14	10.60	1.66E+00		9.69E-02	7.70E-01
	277.60	14.00	1.29E+00		-4.09E-01	5.91E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-07

FEEBRISID-12 061-062

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-12 061-062

Elapsed Live time: 3600
Elapsed Real Time: 3613

Channel								
1:	0	0	0	0	0	0	0	0
9:	6	137	137	83	50	38	41	45
17:	35	27	26	21	27	31	64	41
25:	42	39	35	46	28	25	41	40
33:	30	30	25	33	26	30	27	29
41:	11	29	20	14	20	19	48	15
49:	8	13	9	10	16	13	20	17
57:	12	11	13	20	10	10	39	40
65:	23	25	11	11	7	21	16	17
73:	10	17	33	20	21	22	10	16
81:	18	12	13	18	12	14	18	21
89:	15	9	17	22	51	28	16	11
97:	10	7	14	7	13	5	16	10
105:	15	7	11	6	12	13	10	12
113:	11	10	16	8	12	8	10	8
121:	11	13	9	9	5	9	13	9
129:	8	15	9	15	10	3	9	11
137:	8	14	10	14	9	13	12	12
145:	18	9	14	8	8	11	6	13
153:	7	10	7	5	9	14	13	10
161:	6	6	7	5	6	8	8	10
169:	14	11	9	4	9	12	6	14
177:	8	8	5	8	7	13	11	6
185:	14	28	19	11	6	12	10	12
193:	8	9	6	7	4	8	12	13
201:	5	4	3	11	9	12	8	9
209:	5	6	11	6	8	12	7	7
217:	7	10	7	10	8	5	9	9
225:	6	7	11	13	8	7	5	9
233:	5	4	6	6	11	13	18	10
241:	9	10	6	8	9	12	8	11
249:	7	7	10	8	8	5	4	5
257:	8	3	11	5	5	7	6	3
265:	9	5	4	7	5	5	5	9
273:	10	3	3	8	8	6	7	8
281:	3	6	11	3	9	4	2	4
289:	5	9	4	6	4	5	9	10
297:	8	7	11	4	8	1	4	4
305:	7	3	1	3	6	2	3	4
313:	5	9	5	5	6	8	5	7
321:	5	3	3	15	3	6	1	8
329:	8	7	9	4	6	4	4	4
337:	1	7	3	8	3	5	13	4
345:	3	9	5	4	1	2	7	18
353:	6	5	1	6	7	7	5	6
361:	6	3	6	6	3	4	9	5

:ORTEC

369:	2	6	7	7	0	4	4	4

Sample Title: FEEBRISID-12 061-062

Channel								
377:	6	3	4	7	6	1	6	5
385:	5	4	7	6	4	2	6	1
393:	4	3	4	5	5	2	7	3
401:	1	3	10	4	4	4	2	4
409:	6	6	2	4	5	2	7	2
417:	6	2	3	4	7	5	9	3
425:	2	4	1	4	3	3	3	0
433:	4	8	1	4	5	4	5	1
441:	4	2	5	4	6	2	7	2
449:	3	2	7	2	6	4	5	4
457:	2	5	3	3	6	2	2	5
465:	3	5	3	8	5	5	2	4
473:	3	5	2	7	1	3	2	3
481:	4	0	0	4	0	1	7	4
489:	5	1	3	6	5	5	0	3
497:	3	0	3	0	2	3	1	3
505:	3	7	5	4	7	14	21	25
513:	18	3	3	3	4	3	2	4
521:	2	4	7	2	4	1	2	2
529:	5	2	4	2	2	5	2	4
537:	3	2	2	2	2	4	2	2
545:	3	4	7	1	4	5	2	1
553:	5	2	1	1	4	3	8	2
561:	1	3	4	4	0	1	2	2
569:	1	3	4	2	3	1	4	3
577:	3	6	3	1	2	4	2	1
585:	4	2	2	7	2	5	2	2
593:	3	4	1	1	3	2	6	4
601:	3	1	3	2	2	4	4	9
609:	7	14	4	3	2	1	1	2
617:	3	2	3	3	1	3	3	3
625:	0	3	4	6	2	2	1	4
633:	3	3	3	1	4	3	1	4
641:	4	6	1	2	3	2	3	2
649:	1	0	0	1	3	4	5	1
657:	1	1	1	5	6	6	2	3
665:	0	2	2	3	2	1	4	1
673:	4	1	2	5	0	2	3	1
681:	1	3	3	3	3	6	3	2
689:	3	2	3	5	2	1	1	2
697:	6	5	1	4	2	0	3	4
705:	3	6	3	4	1	3	3	1
713:	4	2	0	3	2	4	2	2
721:	1	5	5	1	1	2	3	5
729:	2	2	2	1	1	2	2	2
737:	5	3	1	2	1	0	4	1
745:	1	2	1	3	4	1	1	2
753:	3	3	6	5	2	2	0	3
761:	2	2	3	1	2	2	3	2
769:	4	0	2	3	2	0	2	1
777:	3	3	3	1	1	2	2	0
785:	1	3	1	1	4	1	3	0
793:	1	2	2	0	3	2	0	1

801:	3	2	2	3	1	0	0	0

Sample Title: FEEBRISID-12 061-062

Channel								
809:	1	1	1	2	3	2	3	0
817:	3	1	1	3	0	1	1	0
825:	0	0	5	1	1	3	2	2
833:	1	2	3	1	3	2	1	4
841:	3	1	5	3	2	2	1	2
849:	0	3	1	2	2	0	1	2
857:	1	0	0	3	1	0	1	0
865:	1	2	2	2	2	1	0	2
873:	0	2	1	1	1	1	0	2
881:	0	3	2	2	1	0	0	2
889:	3	1	1	2	3	1	0	2
897:	1	1	2	1	5	0	1	2
905:	2	0	3	0	2	3	1	1
913:	0	1	3	2	1	1	1	2
921:	1	1	0	2	1	2	0	1
929:	5	0	0	2	0	0	0	2
937:	2	2	3	0	2	2	2	3
945:	1	1	1	0	1	3	0	3
953:	1	0	1	4	3	1	0	1
961:	1	2	2	1	0	1	0	0
969:	0	1	0	2	2	1	0	2
977:	2	1	1	2	1	3	2	3
985:	1	0	2	0	3	3	0	0
993:	0	1	1	0	0	0	1	0
1001:	1	0	2	1	1	1	0	1
1009:	0	2	2	0	1	0	0	0
1017:	0	1	1	1	0	1	1	1
1025:	0	1	0	2	3	1	0	1
1033:	3	1	2	2	1	1	2	3
1041:	3	1	1	3	2	2	2	2
1049:	1	1	0	1	0	1	0	0
1057:	1	2	1	1	2	3	2	0
1065:	1	0	3	0	2	2	0	0
1073:	4	4	2	2	3	0	2	0
1081:	0	0	0	0	3	0	4	1
1089:	1	1	1	2	1	4	1	0
1097:	1	1	1	0	0	0	1	0
1105:	4	0	2	2	0	1	1	3
1113:	1	0	0	1	1	1	1	0
1121:	1	1	2	1	1	0	0	2
1129:	3	0	1	2	4	1	2	0
1137:	5	1	3	0	2	1	2	1
1145:	1	3	1	0	3	0	1	0
1153:	0	0	0	3	0	0	1	1
1161:	1	1	0	0	0	1	1	1
1169:	2	1	1	2	4	1	0	0
1177:	1	2	0	1	2	0	0	0
1185:	4	0	1	0	0	1	0	1
1193:	0	1	0	0	1	3	1	1
1201:	0	2	2	1	1	1	2	1
1209:	0	0	2	0	1	0	0	0
1217:	2	1	3	1	3	0	0	0
1225:	3	0	0	1	1	2	2	0

1233:	1	0	1	0	4	2	1	2

Sample Title: FEEBRISID-12 061-062

Channel								
1241:	3	0	0	0	1	0	3	0
1249:	1	1	1	2	0	0	0	0
1257:	0	1	0	0	0	1	0	0
1265:	0	0	0	0	1	1	0	0
1273:	1	1	2	1	1	0	1	1
1281:	1	2	2	0	0	0	2	2
1289:	1	0	0	1	0	0	0	0
1297:	0	2	2	0	1	0	0	0
1305:	0	1	0	0	1	0	0	1
1313:	2	1	1	0	3	2	1	0
1321:	0	1	2	0	1	1	1	0
1329:	1	0	0	2	1	0	1	1
1337:	1	0	2	1	1	0	0	1
1345:	1	2	0	1	1	1	1	4
1353:	1	1	0	0	1	0	1	0
1361:	1	0	0	1	0	1	0	0
1369:	1	2	0	1	1	1	2	0
1377:	1	1	0	0	3	0	0	2
1385:	0	0	1	5	1	0	0	1
1393:	0	0	0	0	1	1	1	1
1401:	1	1	0	0	0	0	1	1
1409:	0	0	1	1	2	1	1	1
1417:	0	0	0	1	0	3	1	1
1425:	1	0	0	0	0	1	0	0
1433:	1	0	1	0	0	0	0	0
1441:	0	1	0	0	1	2	0	0
1449:	0	1	0	0	0	1	0	0
1457:	3	0	1	7	2	3	1	1
1465:	0	0	0	3	1	1	0	0
1473:	0	2	0	0	2	0	0	1
1481:	0	1	0	1	0	0	1	1
1489:	2	0	1	0	0	1	0	0
1497:	0	0	2	1	3	1	2	1
1505:	0	0	0	1	1	0	0	0
1513:	1	0	0	0	0	0	0	0
1521:	1	0	0	1	2	1	0	0
1529:	0	1	1	1	0	0	0	1
1537:	0	0	0	0	0	0	0	0
1545:	1	0	0	0	0	1	0	1
1553:	1	0	1	1	0	0	1	1
1561:	0	1	1	1	0	0	0	1
1569:	1	0	1	0	0	0	0	2
1577:	1	0	1	2	1	0	1	0
1585:	0	0	0	0	2	0	0	1
1593:	0	0	1	0	0	2	0	0
1601:	0	0	0	0	0	0	0	0
1609:	1	0	1	3	1	1	2	1
1617:	3	0	1	1	1	0	0	0
1625:	2	0	0	0	0	1	0	0
1633:	0	1	1	1	0	1	1	0
1641:	0	0	0	1	0	0	0	0
1649:	0	1	0	0	0	0	0	0
1657:	1	0	0	0	0	1	0	0

1665:	1	0	1	1	0	1	0	2

Sample Title: FEEBRISID-12 061-062

Channel								
1673:	1	0	1	0	0	1	3	1
1681:	0	0	0	0	1	1	0	0
1689:	0	1	1	1	0	1	0	0
1697:	1	0	0	0	1	1	0	0
1705:	0	1	1	0	1	0	0	1
1713:	1	0	1	0	0	2	0	3
1721:	4	1	0	0	1	0	0	0
1729:	1	1	1	0	1	1	0	1
1737:	0	0	1	2	1	0	0	1
1745:	0	1	1	0	0	2	0	0
1753:	0	1	2	0	0	0	1	0
1761:	1	0	0	0	0	0	0	0
1769:	1	1	0	0	0	0	0	0
1777:	0	2	0	0	0	0	0	1
1785:	0	0	0	4	0	0	0	0
1793:	0	0	0	0	0	0	1	0
1801:	0	0	1	0	1	0	0	0
1809:	0	0	0	0	0	1	0	0
1817:	2	0	0	0	0	1	0	0
1825:	2	0	1	0	1	0	0	1
1833:	0	0	1	3	1	0	0	0
1841:	1	0	0	2	0	0	0	0
1849:	0	0	0	0	1	0	1	0
1857:	1	1	0	0	0	0	0	0
1865:	0	1	1	0	1	2	0	0
1873:	1	1	0	0	0	0	0	0
1881:	0	0	0	0	0	0	1	0
1889:	0	0	0	0	0	0	1	0
1897:	2	0	0	1	0	1	0	1
1905:	4	1	0	0	1	0	0	0
1913:	1	0	0	0	1	0	0	0
1921:	0	0	0	0	1	1	1	0
1929:	0	0	1	0	0	0	1	2
1937:	0	0	0	0	1	1	1	1
1945:	1	1	0	4	0	0	1	1
1953:	0	1	0	0	1	0	1	1
1961:	0	1	0	0	0	0	0	1
1969:	1	0	2	0	0	0	2	0
1977:	1	0	1	2	1	0	0	0
1985:	0	0	0	0	1	0	0	0
1993:	1	0	0	1	0	0	0	0
2001:	0	1	0	1	0	1	1	0
2009:	1	0	1	0	1	0	0	0
2017:	0	2	0	0	1	0	0	0
2025:	2	0	1	0	0	0	1	0
2033:	2	1	1	0	0	0	0	0
2041:	0	0	2	1	1	0	0	0
2049:	1	0	0	0	1	0	0	0
2057:	1	0	0	0	0	0	0	0
2065:	1	0	1	1	0	0	0	0
2073:	0	0	0	1	0	1	2	0
2081:	0	0	0	0	0	0	0	0
2089:	0	0	1	0	0	0	0	2

2097:	0	1	0	0	0	0	0	0

Sample Title: FEEBRISID-12 061-062

Channel								
2105:	0	0	0	1	2	0	0	1
2113:	1	0	0	0	0	0	0	0
2121:	0	1	0	0	1	0	0	0
2129:	1	0	1	1	0	0	0	0
2137:	0	1	0	1	0	1	0	0
2145:	0	1	0	0	0	1	0	1
2153:	0	0	1	1	0	0	0	0
2161:	0	0	0	2	0	0	0	1
2169:	0	0	0	0	0	0	0	0
2177:	1	1	0	1	0	0	0	0
2185:	0	1	1	0	0	0	2	1
2193:	0	1	1	0	0	1	0	0
2201:	0	0	0	0	2	0	0	2
2209:	0	1	0	2	1	1	0	0
2217:	1	1	0	0	0	1	1	1
2225:	0	0	1	0	1	0	0	0
2233:	0	0	0	0	0	2	1	0
2241:	0	0	0	1	0	1	0	0
2249:	0	0	0	0	1	0	1	0
2257:	0	3	0	0	0	0	0	1
2265:	0	0	0	0	0	0	0	0
2273:	0	0	0	0	0	1	0	0
2281:	0	0	0	0	0	1	0	0
2289:	0	0	0	0	1	0	1	0
2297:	0	0	1	0	0	0	0	0
2305:	0	1	0	0	0	0	0	0
2313:	0	0	0	3	2	0	0	0
2321:	0	0	0	0	0	0	0	0
2329:	0	0	0	0	0	0	1	0
2337:	0	0	0	0	0	0	0	0
2345:	0	1	0	1	0	1	0	0
2353:	0	1	0	1	0	0	0	0
2361:	0	0	1	1	0	0	0	1
2369:	0	0	0	0	0	0	0	0
2377:	0	0	1	1	0	0	0	1
2385:	0	0	1	0	0	0	1	1
2393:	3	0	1	0	1	0	1	0
2401:	0	0	0	0	0	0	2	0
2409:	0	0	1	1	0	0	0	0
2417:	0	0	1	2	0	1	0	0
2425:	0	0	0	1	1	0	0	2
2433:	0	0	0	0	0	1	0	1
2441:	0	0	0	0	0	0	1	0
2449:	0	1	0	0	0	1	1	0
2457:	0	0	0	0	1	0	0	0
2465:	1	0	0	1	0	3	0	0
2473:	0	0	0	0	1	0	0	1
2481:	0	0	1	0	0	0	0	0
2489:	0	0	0	0	0	0	0	0
2497:	0	0	0	1	0	0	0	1
2505:	0	0	2	0	0	0	0	0
2513:	0	0	2	0	0	0	0	0
2521:	0	0	0	0	0	1	0	1

2529:	0	0	0	0	1	0	0	0

Sample Title: FEEBRISID-12 061-062

Channel								
2537:	0	0	0	0	0	0	0	0
2545:	0	0	0	0	0	1	0	0
2553:	1	0	0	0	0	0	0	0
2561:	1	0	0	0	0	1	0	0
2569:	0	0	0	0	1	1	0	0
2577:	0	0	0	1	0	0	0	0
2585:	0	0	0	0	0	1	0	0
2593:	0	0	0	0	1	0	0	0
2601:	0	0	0	0	2	0	0	0
2609:	1	0	0	0	1	3	0	0
2617:	1	0	1	1	0	0	0	0
2625:	0	0	0	0	0	0	0	0
2633:	0	0	0	0	0	1	0	0
2641:	0	0	0	1	0	0	0	0
2649:	0	0	0	0	0	1	0	0
2657:	0	1	0	1	0	0	0	1
2665:	0	0	0	0	0	1	0	1
2673:	0	0	0	0	0	0	0	0
2681:	0	0	2	0	1	1	1	0
2689:	0	0	0	0	1	0	1	0
2697:	0	0	0	0	0	0	1	0
2705:	0	0	0	0	0	0	1	0
2713:	0	0	0	0	0	0	0	2
2721:	0	1	0	0	0	0	0	1
2729:	0	0	0	0	0	0	0	0
2737:	0	0	0	1	1	0	0	0
2745:	0	0	1	1	1	0	0	0
2753:	0	0	0	0	0	1	0	0
2761:	0	1	0	0	1	0	0	0
2769:	0	1	1	0	0	1	0	0
2777:	0	0	0	0	0	1	0	1
2785:	0	0	0	0	0	0	0	0
2793:	0	0	1	1	1	1	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	1	0	0	0	0
2817:	1	0	0	0	0	0	0	1
2825:	0	2	0	0	1	0	0	1
2833:	0	0	0	0	0	0	0	0
2841:	0	1	0	0	0	0	1	1
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	2
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	1	0	0	0	0
2881:	0	0	1	0	0	1	1	1
2889:	0	0	0	0	0	0	0	0
2897:	0	1	0	0	0	0	0	1
2905:	1	0	0	0	0	0	0	0
2913:	0	1	0	0	0	0	2	0
2921:	0	1	0	0	0	1	0	1
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	1	0	0	0
2953:	1	0	0	0	0	0	0	1

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-12 061-062

Channel								
2969:	0	0	1	0	0	0	1	0
2977:	0	0	0	1	0	0	0	1
2985:	0	2	1	0	1	0	0	1
2993:	0	0	0	0	0	0	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	0	0	0	1	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	1	0	0	0	0	0
3033:	0	0	0	0	0	1	0	0
3041:	0	0	0	0	0	2	0	0
3049:	0	0	0	0	0	0	0	0
3057:	1	0	0	1	0	0	0	0
3065:	0	0	0	0	0	1	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	1	0	1	0	0	0
3089:	1	0	0	1	0	0	0	0
3097:	1	0	0	0	1	0	0	0
3105:	0	0	1	1	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	1	0	0	1	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	1	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	1	0	1	0	0	0	0	0
3161:	0	1	0	0	0	0	0	0
3169:	0	1	0	0	0	0	0	0
3177:	0	0	0	0	0	0	1	0
3185:	0	0	1	0	0	0	0	0
3193:	0	1	0	0	0	0	0	0
3201:	1	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	1
3217:	0	1	0	0	0	0	1	0
3225:	0	0	0	0	1	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	1	0	0	0	0	0	0	1
3249:	0	0	0	0	0	0	0	0
3257:	0	0	1	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	1	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	1	0	0	0	0	0	0	0
3305:	0	1	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	1	0	0	1	0	0	0	0
3329:	0	0	0	1	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	1	0	0	0	2	0	0	1
3353:	0	0	0	1	0	0	0	0
3361:	0	0	0	0	0	0	0	1
3369:	0	0	1	0	1	0	0	1
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	1	1	1	0	1	0	0

Sample Title: FEEBRISID-12 061-062

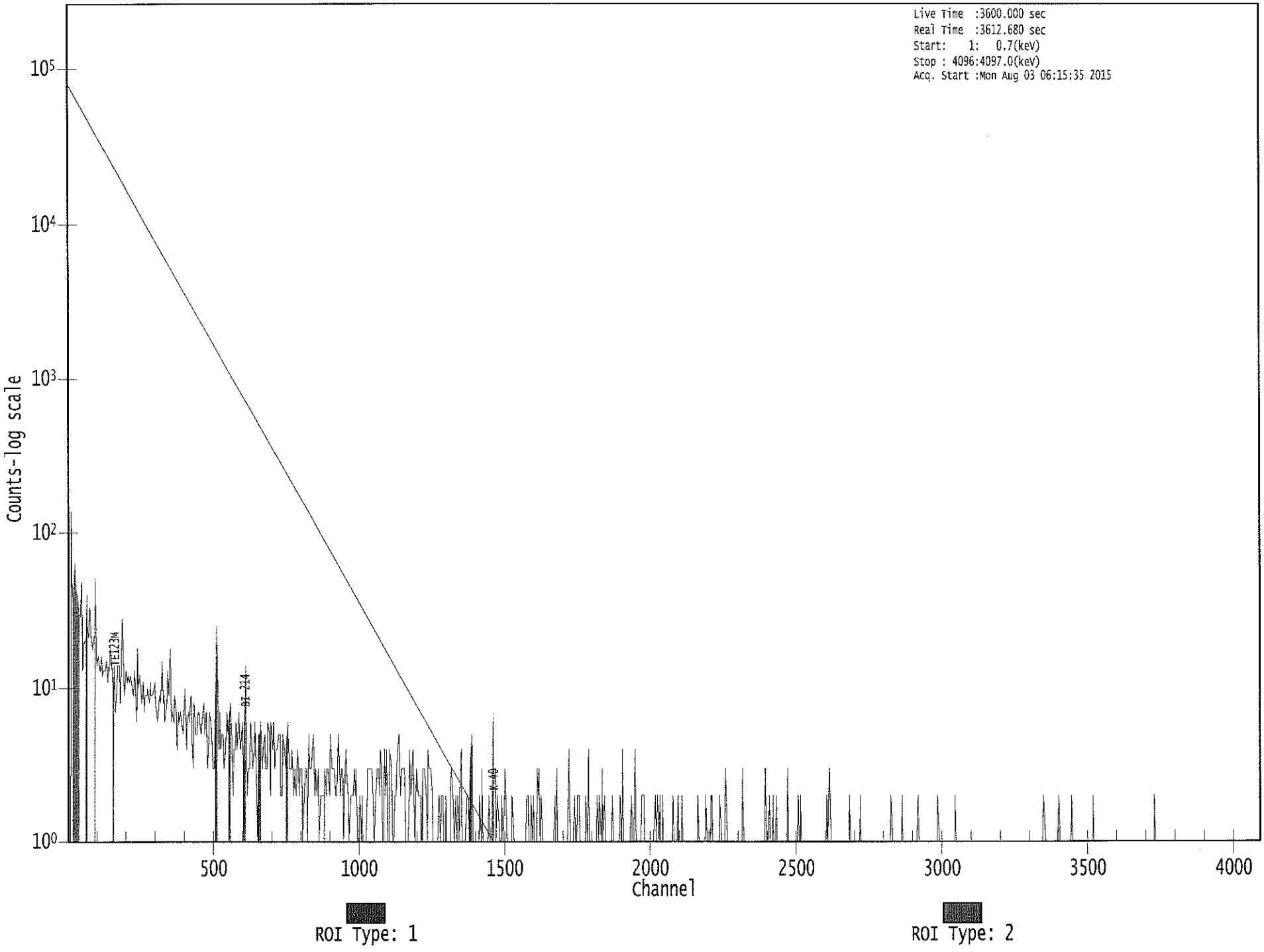
Channel								
3401:	2	0	1	0	0	0	0	0
3409:	0	0	0	0	0	0	0	1
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	1	0	0
3433:	1	0	0	0	0	0	0	0
3441:	1	1	0	0	2	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	1	0	1	0	0	0	1
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	2	0
3521:	0	0	0	0	1	1	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	1	0
3561:	0	0	0	0	0	0	0	0
3569:	1	0	1	1	0	0	0	0
3577:	0	0	1	0	0	0	0	0
3585:	1	0	0	0	0	0	1	0
3593:	0	0	0	0	1	0	0	0
3601:	0	0	0	0	1	1	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	1	0
3633:	0	0	0	0	0	0	0	0
3641:	0	1	0	0	0	0	0	1
3649:	0	0	0	0	0	0	1	0
3657:	0	1	0	0	0	1	0	0
3665:	0	1	0	1	0	0	0	0
3673:	0	1	0	0	0	1	0	0
3681:	0	0	0	0	0	0	0	1
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	1	0	0
3705:	0	0	0	0	1	0	0	0
3713:	0	1	0	0	0	1	0	0
3721:	0	0	0	0	0	0	0	0
3729:	2	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	1	0	1	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	1	0	1	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	1	0	0	0	0	0	0
3785:	1	1	0	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	0	0	0	0	1	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	1	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-12 061-062

Channel							
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	1	1	1	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	1	1	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	1	0	0	0	0	0
3937:	0	0	0	0	0	0	0	1
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	1
3969:	0	0	1	1	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	1	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	1	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	1	0	0	0	1	0
4033:	0	1	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	1	0	0	0
4057:	1	0	0	0	0	0	1	0
4065:	0	0	1	0	0	1	0	1
4073:	0	0	0	0	0	0	1	0
4081:	0	0	0	0	0	1	0	0
4089:	0	0	0	0	0	0	0	0

0000025451.CNF



Apex-Gamma

Analysis Report for 1507047-08
FEEBRISID-12 074-075

8/7

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-08
Sample Description	: FEEBRISID-12 074-075
Sample Type	: SOIL
Sample Size	: 4.512E+02 grams
Facility	: Countroom
Sample Taken On	: 7/6/2015 7:53:37AM
Acquisition Started	: 8/3/2015 7:19:37AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 18 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25454

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

Analysis Report for 1507047-08

FEEBRISID-12 074-075

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 8:19:41AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.69	47.04	0.0000	0.00
2	63.46	63.80	0.0000	0.00
3	74.94	75.28	0.0000	0.00
4	77.48	77.82	0.0000	0.00
5	87.80	88.13	0.0000	0.00
6	114.56	114.89	0.0000	0.00
7	186.16	186.46	0.0000	0.00
8	209.57	209.87	0.0000	0.00
9	221.27	221.56	0.0000	0.00
10	238.72	239.01	0.0000	0.00
11	242.17	242.46	0.0000	0.00
12	270.62	270.89	0.0000	0.00
13	295.25	295.52	0.0000	0.00
14	329.50	329.76	0.0000	0.00
15	338.71	338.96	0.0000	0.00
16	352.13	352.38	0.0000	0.00
17	365.73	365.97	0.0000	0.00
18	421.41	421.64	0.0000	0.00
19	464.98	465.19	0.0000	0.00
20	510.68	510.87	0.0000	0.00
21	583.40	583.57	0.0000	0.00
22	609.28	609.44	0.0000	0.00
23	642.86	643.01	0.0000	0.00
24	648.51	648.66	0.0000	0.00
25	727.84	727.96	0.0000	0.00
26	785.72	785.82	0.0000	0.00
27	793.53	793.63	0.0000	0.00
28	863.45	863.52	0.0000	0.00
29	911.68	911.73	0.0000	0.00
30	964.77	964.80	0.0000	0.00
31	969.16	969.20	0.0000	0.00
32	1003.03	1003.06	0.0000	0.00
33	1120.57	1120.55	0.0000	0.00
34	1238.53	1238.47	0.0000	0.00
35	1260.42	1260.35	0.0000	0.00
36	1269.31	1269.24	0.0000	0.00
37	1377.78	1377.66	0.0000	0.00
38	1450.99	1450.85	0.0000	0.00
39	1460.97	1460.83	0.0000	0.00
40	1562.91	1562.73	0.0000	0.00
41	1587.53	1587.34	0.0000	0.00
42	1617.67	1617.47	0.0000	0.00

Analysis Report for 1507047-08

FEEBRISID-12 074-075

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1623.51	1623.31	0.0000	0.00
44	1638.05	1637.84	0.0000	0.00
45	1660.67	1660.46	0.0000	0.00
46	1703.57	1703.33	0.0000	0.00
47	1728.74	1728.50	0.0000	0.00
48	1764.64	1764.38	0.0000	0.00
49	1816.81	1816.54	0.0000	0.00
50	1847.20	1846.91	0.0000	0.00
51	2104.47	2104.08	0.0000	0.00
52	2204.27	2203.84	0.0000	0.00
53	2338.20	2337.73	0.0000	0.00
54	2446.34	2445.82	0.0000	0.00
55	2614.48	2613.90	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-08

FEEBRISID-12 074-075

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:19:41AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.69	44 -	49	47.04	1.15E+02	60.40	6.40E+02	1.51
	2	63.46	60 -	67	63.80	2.46E+02	93.34	1.29E+03	1.74
M	3	74.94	73 -	83	75.28	3.14E+02	80.75	1.05E+03	1.60
m	4	77.48	73 -	83	77.82	4.38E+02	86.58	9.63E+02	1.61
M	5	87.80	83 -	97	88.13	1.64E+02	53.37	5.87E+02	1.48
	6	114.56	112 -	118	114.89	7.20E+01	66.32	7.38E+02	2.60
	7	186.16	180 -	190	186.46	1.71E+02	86.99	9.16E+02	1.99
	8	209.57	208 -	213	209.87	4.42E+01	48.29	4.30E+02	2.11
	9	221.27	219 -	224	221.56	3.36E+01	41.87	3.19E+02	2.01
M	10	238.72	234 -	251	239.01	6.66E+02	65.66	3.29E+02	1.96
m	11	242.17	234 -	251	242.46	1.68E+02	53.17	3.02E+02	1.93
	12	270.62	268 -	275	270.89	7.38E+01	49.68	3.66E+02	2.28
	13	295.25	292 -	298	295.52	1.96E+02	47.66	2.71E+02	1.91
	14	329.50	326 -	333	329.76	4.76E+01	44.00	2.89E+02	1.47
	15	338.71	335 -	344	338.96	1.37E+02	54.04	3.35E+02	1.83
	16	352.13	350 -	357	352.38	3.24E+02	53.70	2.67E+02	1.81
	17	365.73	364 -	369	365.97	2.55E+01	28.86	1.45E+02	1.88
	18	421.41	418 -	425	421.64	3.56E+01	32.50	1.53E+02	3.62
	19	464.98	458 -	473	465.19	1.08E+02	57.41	2.80E+02	4.87
	20	510.68	506 -	516	510.87	1.68E+02	44.68	1.77E+02	2.88
	21	583.40	578 -	589	583.57	2.28E+02	45.43	1.44E+02	2.07
	22	609.28	605 -	614	609.44	2.46E+02	51.29	2.36E+02	2.13
	23	642.86	641 -	645	643.01	1.34E+01	13.53	2.73E+01	2.04
	24	648.51	646 -	652	648.66	1.65E+01	19.49	5.90E+01	3.01
	25	727.84	724 -	732	727.96	5.10E+01	31.98	1.26E+02	2.03
	26	785.72	781 -	790	785.82	3.07E+01	29.27	1.05E+02	5.20
	27	793.53	791 -	798	793.63	1.85E+01	24.08	8.49E+01	3.05
	28	863.45	857 -	874	863.52	4.45E+01	40.53	1.25E+02	11.51
	29	911.68	907 -	917	911.73	1.28E+02	35.28	9.38E+01	2.03
M	30	964.77	960 -	973	964.80	2.05E+01	26.68	1.15E+02	2.18
m	31	969.16	960 -	973	969.20	6.93E+01	29.19	1.09E+02	2.19
	32	1003.03	999 -	1006	1003.06	1.70E+01	18.87	4.80E+01	3.96
	33	1120.57	1116 -	1124	1120.55	4.28E+01	30.04	1.12E+02	1.64
	34	1238.53	1236 -	1240	1238.47	1.91E+01	16.63	4.39E+01	1.82
	35	1260.42	1256 -	1265	1260.35	1.67E+01	18.44	3.66E+01	2.49
	36	1269.31	1265 -	1273	1269.24	1.54E+01	16.30	3.12E+01	1.57
	37	1377.78	1374 -	1380	1377.66	1.84E+01	13.01	1.73E+01	2.69
	38	1450.99	1449 -	1453	1450.85	8.04E+00	8.17	7.92E+00	2.73
	39	1460.97	1456 -	1466	1460.83	3.94E+02	43.17	3.78E+01	2.20
	40	1562.91	1560 -	1566	1562.73	1.10E+01	6.63	0.00E+00	4.00

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1587.53	1583 -	1590	1587.34	1.30E+01	13.11	2.00E+01	1.52
M	42	1617.67	1616 -	1627	1617.47	5.69E+00	3.87	2.14E+00	2.73
m	43	1623.51	1616 -	1627	1623.31	9.69E+00	10.95	1.32E+01	2.73
	44	1638.05	1634 -	1640	1637.84	8.50E+00	8.51	7.00E+00	1.01
	45	1660.67	1656 -	1664	1660.46	8.91E+00	8.02	4.18E+00	1.87
	46	1703.57	1701 -	1705	1703.33	6.00E+00	4.90	0.00E+00	1.92
	47	1728.74	1724 -	1733	1728.50	1.20E+01	13.71	2.00E+01	1.81
	48	1764.64	1759 -	1771	1764.38	7.42E+01	18.82	7.51E+00	2.62
	49	1816.81	1813 -	1819	1816.54	5.50E+00	7.78	7.00E+00	2.38
	50	1847.20	1843 -	1850	1846.91	1.12E+01	8.25	3.69E+00	1.45
	51	2104.47	2100 -	2108	2104.08	1.20E+01	12.85	1.80E+01	2.07
	52	2204.27	2200 -	2207	2203.84	1.90E+01	8.72	0.00E+00	1.97
	53	2338.20	2333 -	2341	2337.73	1.10E+01	6.63	0.00E+00	2.75
	54	2446.34	2442 -	2449	2445.82	1.10E+01	6.63	0.00E+00	4.72
	55	2614.48	2610 -	2619	2613.90	8.10E+01	18.00	0.00E+00	2.87

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:19:41AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.69	44 -	49	1.15E+02	60.40	6.40E+02	4.64E+01
	2	63.46	60 -	67	2.46E+02	93.34	1.29E+03	7.23E+01
M	3	74.94	73 -	83	3.14E+02	80.75	1.05E+03	5.34E+01
m	4	77.48	73 -	83	4.38E+02	86.58	9.63E+02	5.10E+01
M	5	87.80	83 -	97	1.64E+02	53.37	5.87E+02	3.98E+01
	6	114.56	112 -	118	7.20E+01	66.32	7.38E+02	5.27E+01
	7	186.16	180 -	190	1.71E+02	86.99	9.16E+02	6.82E+01
	8	209.57	208 -	213	4.42E+01	48.29	4.30E+02	3.82E+01
	9	221.27	219 -	224	3.36E+01	41.87	3.19E+02	3.31E+01
M	10	238.72	234 -	251	6.66E+02	65.66	3.29E+02	2.98E+01
m	11	242.17	234 -	251	1.68E+02	53.17	3.02E+02	2.86E+01
	12	270.62	268 -	275	7.38E+01	49.68	3.66E+02	3.83E+01
	13	295.25	292 -	298	1.96E+02	47.66	2.71E+02	3.17E+01

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	14	329.50	326 -	333	4.76E+01	44.00	2.89E+02	3.43E+01
	15	338.71	335 -	344	1.37E+02	54.04	3.35E+02	4.00E+01
	16	352.13	350 -	357	3.24E+02	53.70	2.67E+02	3.28E+01
	17	365.73	364 -	369	2.55E+01	28.86	1.45E+02	2.22E+01
	18	421.41	418 -	425	3.56E+01	32.50	1.53E+02	2.48E+01
	19	464.98	458 -	473	1.08E+02	57.41	2.80E+02	4.40E+01
	20	510.68	506 -	516	1.68E+02	44.68	1.77E+02	2.99E+01
	21	583.40	578 -	589	2.28E+02	45.43	1.44E+02	2.79E+01
	22	609.28	605 -	614	2.46E+02	51.29	2.36E+02	3.34E+01
	23	642.86	641 -	645	1.34E+01	13.53	2.73E+01	9.36E+00
	24	648.51	646 -	652	1.65E+01	19.49	5.90E+01	1.46E+01
	25	727.84	724 -	732	5.10E+01	31.98	1.26E+02	2.35E+01
	26	785.72	781 -	790	3.07E+01	29.27	1.05E+02	2.23E+01
	27	793.53	791 -	798	1.85E+01	24.08	8.49E+01	1.85E+01
	28	863.45	857 -	874	4.45E+01	40.53	1.25E+02	3.15E+01
	29	911.68	907 -	917	1.28E+02	35.28	9.38E+01	2.22E+01
M	30	964.77	960 -	973	2.05E+01	26.68	1.15E+02	1.76E+01
m	31	969.16	960 -	973	6.93E+01	29.19	1.09E+02	1.72E+01
	32	1003.03	999 -	1006	1.70E+01	18.87	4.80E+01	1.39E+01
	33	1120.57	1116 -	1124	4.28E+01	30.04	1.12E+02	2.22E+01
	34	1238.53	1236 -	1240	1.91E+01	16.63	4.39E+01	1.16E+01
	35	1260.42	1256 -	1265	1.67E+01	18.44	3.66E+01	1.36E+01
	36	1269.31	1265 -	1273	1.54E+01	16.30	3.12E+01	1.17E+01
	37	1377.78	1374 -	1380	1.84E+01	13.01	1.73E+01	8.05E+00
	38	1450.99	1449 -	1453	8.04E+00	8.17	7.92E+00	4.83E+00
	39	1460.97	1456 -	1466	3.94E+02	43.17	3.78E+01	1.39E+01
	40	1562.91	1560 -	1566	1.10E+01	6.63	0.00E+00	0.00E+00
	41	1587.53	1583 -	1590	1.30E+01	13.11	2.00E+01	9.01E+00
M	42	1617.67	1616 -	1627	5.69E+00	3.87	2.14E+00	2.40E+00
m	43	1623.51	1616 -	1627	9.69E+00	10.95	1.32E+01	5.97E+00
	44	1638.05	1634 -	1640	8.50E+00	8.51	7.00E+00	5.10E+00
	45	1660.67	1656 -	1664	8.91E+00	8.02	4.18E+00	4.40E+00
	46	1703.57	1701 -	1705	6.00E+00	4.90	0.00E+00	0.00E+00
	47	1728.74	1724 -	1733	1.20E+01	13.71	2.00E+01	9.73E+00
	48	1764.64	1759 -	1771	7.42E+01	18.82	7.51E+00	6.22E+00
	49	1816.81	1813 -	1819	5.50E+00	7.78	7.00E+00	5.10E+00
	50	1847.20	1843 -	1850	1.12E+01	8.25	3.69E+00	3.98E+00
	51	2104.47	2100 -	2108	1.20E+01	12.85	1.80E+01	8.89E+00
	52	2204.27	2200 -	2207	1.90E+01	8.72	0.00E+00	0.00E+00
	53	2338.20	2333 -	2341	1.10E+01	6.63	0.00E+00	0.00E+00
	54	2446.34	2442 -	2449	1.10E+01	6.63	0.00E+00	0.00E+00
	55	2614.48	2610 -	2619	8.10E+01	18.00	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-08

FEEBRISID-12 074-075

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 8:19:41AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.69	44 -	49	47.04	1.15E+02	60.40	6.40E+02	PB-210
	2	63.46	60 -	67	63.80	2.46E+02	93.34	1.29E+03	TH-234
									TH-230
M	3	74.94	73 -	83	75.28	3.14E+02	80.75	1.05E+03	AM-243
m	4	77.48	73 -	83	77.82	4.38E+02	86.58	9.63E+02	TI-44
M	5	87.80	83 -	97	88.13	1.64E+02	53.37	5.87E+02	SN-126
									CD-109
									LU-176
	6	114.56	112 -	118	114.89	7.20E+01	66.32	7.38E+02	.....
	7	186.16	180 -	190	186.46	1.71E+02	86.99	9.16E+02	RA-226
	8	209.57	208 -	213	209.87	4.42E+01	48.29	4.30E+02	CM-243
									GA-67
	9	221.27	219 -	224	221.56	3.36E+01	41.87	3.19E+02	.....
M	10	238.72	234 -	251	239.01	6.66E+02	65.66	3.29E+02	PB-212
m	11	242.17	234 -	251	242.46	1.68E+02	53.17	3.02E+02	.....
	12	270.62	268 -	275	270.89	7.38E+01	49.68	3.66E+02	.....
	13	295.25	292 -	298	295.52	1.96E+02	47.66	2.71E+02	PB-214
	14	329.50	326 -	333	329.76	4.76E+01	44.00	2.89E+02	LA-140
	15	338.71	335 -	344	338.96	1.37E+02	54.04	3.35E+02	AC-228
	16	352.13	350 -	357	352.38	3.24E+02	53.70	2.67E+02	PB-214
	17	365.73	364 -	369	365.97	2.55E+01	28.86	1.45E+02	.....
	18	421.41	418 -	425	421.64	3.56E+01	32.50	1.53E+02	.....
	19	464.98	458 -	473	465.19	1.08E+02	57.41	2.80E+02	.....
	20	510.68	506 -	516	510.87	1.68E+02	44.68	1.77E+02	.....
	21	583.40	578 -	589	583.57	2.28E+02	45.43	1.44E+02	TL-208
	22	609.28	605 -	614	609.44	2.46E+02	51.29	2.36E+02	BI-214
	23	642.86	641 -	645	643.01	1.34E+01	13.53	2.73E+01	.....
	24	648.51	646 -	652	648.66	1.65E+01	19.49	5.90E+01	.....
	25	727.84	724 -	732	727.96	5.10E+01	31.98	1.26E+02	BI-212
	26	785.72	781 -	790	785.82	3.07E+01	29.27	1.05E+02	.....
	27	793.53	791 -	798	793.63	1.85E+01	24.08	8.49E+01	.....
	28	863.45	857 -	874	863.52	4.45E+01	40.53	1.25E+02	.....
	29	911.68	907 -	917	911.73	1.28E+02	35.28	9.38E+01	LU-172
									AC-228
M	30	964.77	960 -	973	964.80	2.05E+01	26.68	1.15E+02	EU-152
m	31	969.16	960 -	973	969.20	6.93E+01	29.19	1.09E+02	AC-228
	32	1003.03	999 -	1006	1003.06	1.70E+01	18.87	4.80E+01	.....
	33	1120.57	1116 -	1124	1120.55	4.28E+01	30.04	1.12E+02	SC-46

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									BI-214
									TA-182
	34	1238.53	1236 -	1240	1238.47	1.91E+01	16.63	4.39E+01	CO-56
	35	1260.42	1256 -	1265	1260.35	1.67E+01	18.44	3.66E+01	I-135
	36	1269.31	1265 -	1273	1269.24	1.54E+01	16.30	3.12E+01	.....
	37	1377.78	1374 -	1380	1377.66	1.84E+01	13.01	1.73E+01	.....
	38	1450.99	1449 -	1453	1450.85	8.04E+00	8.17	7.92E+00	.....
	39	1460.97	1456 -	1466	1460.83	3.94E+02	43.17	3.78E+01	K-40
	40	1562.91	1560 -	1566	1562.73	1.10E+01	6.63	0.00E+00	.....
	41	1587.53	1583 -	1590	1587.34	1.30E+01	13.11	2.00E+01	.....
M	42	1617.67	1616 -	1627	1617.47	5.69E+00	3.87	2.14E+00	.....
m	43	1623.51	1616 -	1627	1623.31	9.69E+00	10.95	1.32E+01	.....
	44	1638.05	1634 -	1640	1637.84	8.50E+00	8.51	7.00E+00	.....
	45	1660.67	1656 -	1664	1660.46	8.91E+00	8.02	4.18E+00	.....
	46	1703.57	1701 -	1705	1703.33	6.00E+00	4.90	0.00E+00	.....
	47	1728.74	1724 -	1733	1728.50	1.20E+01	13.71	2.00E+01	.....
	48	1764.64	1759 -	1771	1764.38	7.42E+01	18.82	7.51E+00	BI-214
	49	1816.81	1813 -	1819	1816.54	5.50E+00	7.78	7.00E+00	.....
	50	1847.20	1843 -	1850	1846.91	1.12E+01	8.25	3.69E+00	.....
	51	2104.47	2100 -	2108	2104.08	1.20E+01	12.85	1.80E+01	.....
	52	2204.27	2200 -	2207	2203.84	1.90E+01	8.72	0.00E+00	BI-214
	53	2338.20	2333 -	2341	2337.73	1.10E+01	6.63	0.00E+00	.....
	54	2446.34	2442 -	2449	2445.82	1.10E+01	6.63	0.00E+00	.....
	55	2614.48	2610 -	2619	2613.90	8.10E+01	18.00	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 8:19:41AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.69	1.15E+02	60.40	1.69E-02	1.78E-03
	2	63.46	2.46E+02	93.34	2.50E-02	1.91E-03
M	3	74.94	3.14E+02	80.75	2.75E-02	2.30E-03
m	4	77.48	4.38E+02	86.58	2.78E-02	2.39E-03
M	5	87.80	1.64E+02	53.37	2.85E-02	2.73E-03
	6	114.56	7.20E+01	66.32	2.77E-02	2.22E-03

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	7	186.16	1.71E+02	86.99	2.24E-02	2.03E-03
	8	209.57	4.42E+01	48.29	2.09E-02	1.85E-03
	9	221.27	3.36E+01	41.87	2.02E-02	1.77E-03
M	10	238.72	6.66E+02	65.66	1.92E-02	1.64E-03
m	11	242.17	1.68E+02	53.17	1.90E-02	1.61E-03
	12	270.62	7.38E+01	49.68	1.77E-02	1.40E-03
	13	295.25	1.96E+02	47.66	1.67E-02	1.31E-03
	14	329.50	4.76E+01	44.00	1.55E-02	1.24E-03
	15	338.71	1.37E+02	54.04	1.52E-02	1.22E-03
	16	352.13	3.24E+02	53.70	1.48E-02	1.19E-03
	17	365.73	2.55E+01	28.86	1.44E-02	1.17E-03
	18	421.41	3.56E+01	32.50	1.30E-02	1.08E-03
	19	464.98	1.08E+02	57.41	1.21E-02	1.04E-03
	20	510.68	1.68E+02	44.68	1.12E-02	9.91E-04
	21	583.40	2.28E+02	45.43	1.02E-02	9.15E-04
	22	609.28	2.46E+02	51.29	9.83E-03	8.88E-04
	23	642.86	1.34E+01	13.53	9.43E-03	8.54E-04
	24	648.51	1.65E+01	19.49	9.36E-03	8.48E-04
	25	727.84	5.10E+01	31.98	8.55E-03	7.75E-04
	26	785.72	3.07E+01	29.27	8.05E-03	7.23E-04
	27	793.53	1.85E+01	24.08	7.98E-03	7.16E-04
	28	863.45	4.45E+01	40.53	7.46E-03	6.53E-04
	29	911.68	1.28E+02	35.28	7.14E-03	6.15E-04
M	30	964.77	2.05E+01	26.68	6.83E-03	5.88E-04
m	31	969.16	6.93E+01	29.19	6.80E-03	5.85E-04
	32	1003.03	1.70E+01	18.87	6.62E-03	5.68E-04
	33	1120.57	4.28E+01	30.04	6.07E-03	5.07E-04
	34	1238.53	1.91E+01	16.63	5.61E-03	4.68E-04
	35	1260.42	1.67E+01	18.44	5.54E-03	4.64E-04
	36	1269.31	1.54E+01	16.30	5.51E-03	4.62E-04
	37	1377.78	1.84E+01	13.01	5.18E-03	4.40E-04
	38	1450.99	8.04E+00	8.17	4.99E-03	4.22E-04
	39	1460.97	3.94E+02	43.17	4.97E-03	4.19E-04
	40	1562.91	1.10E+01	6.63	4.75E-03	3.94E-04
	41	1587.53	1.30E+01	13.11	4.70E-03	3.88E-04
M	42	1617.67	5.69E+00	3.87	4.64E-03	3.80E-04
m	43	1623.51	9.69E+00	10.95	4.63E-03	3.79E-04
	44	1638.05	8.50E+00	8.51	4.60E-03	3.75E-04
	45	1660.67	8.91E+00	8.02	4.56E-03	3.69E-04
	46	1703.57	6.00E+00	4.90	4.49E-03	3.59E-04
	47	1728.74	1.20E+01	13.71	4.45E-03	3.53E-04
	48	1764.64	7.42E+01	18.82	4.40E-03	3.44E-04
	49	1816.81	5.50E+00	7.78	4.32E-03	3.31E-04
	50	1847.20	1.12E+01	8.25	4.28E-03	3.26E-04
	51	2104.47	1.20E+01	12.85	4.02E-03	3.26E-04
	52	2204.27	1.90E+01	8.72	3.95E-03	3.26E-04
	53	2338.20	1.10E+01	6.63	3.88E-03	3.26E-04
	54	2446.34	1.10E+01	6.63	3.83E-03	3.26E-04
	55	2614.48	8.10E+01	18.00	3.79E-03	3.26E-04

Analysis Report for 1507047-08

FEEBRISID-12 074-075

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 8:19:41AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.69	1.15E+02	60.40	4.67E+01	7.87E+00	6.81E+01	6.09E+01
	2	63.46	2.46E+02	93.34	1.06E+02	2.53E+01	1.40E+02	9.67E+01
M	3	74.94	3.14E+02	80.75			3.14E+02	8.07E+01
m	4	77.48	4.38E+02	86.58	1.37E+01	4.21E+00	4.24E+02	8.67E+01
M	5	87.80	1.64E+02	53.37			1.64E+02	5.34E+01
	6	114.56	7.20E+01	66.32			7.20E+01	6.63E+01
	7	186.16	1.71E+02	86.99	6.17E+01	7.27E+00	1.09E+02	8.73E+01
	8	209.57	4.42E+01	48.29			4.42E+01	4.83E+01
	9	221.27	3.36E+01	41.87			3.36E+01	4.19E+01
M	10	238.72	6.66E+02	65.66	1.90E+01	5.64E+00	6.47E+02	6.59E+01
m	11	242.17	1.68E+02	53.17			1.68E+02	5.32E+01
	12	270.62	7.38E+01	49.68			7.38E+01	4.97E+01
	13	295.25	1.96E+02	47.66	3.06E+00	4.82E+00	1.93E+02	4.79E+01
	14	329.50	4.76E+01	44.00			4.76E+01	4.40E+01
	15	338.71	1.37E+02	54.04			1.37E+02	5.40E+01
	16	352.13	3.24E+02	53.70	1.06E+01	4.49E+00	3.13E+02	5.39E+01
	17	365.73	2.55E+01	28.86			2.55E+01	2.89E+01
	18	421.41	3.56E+01	32.50			3.56E+01	3.25E+01
	19	464.98	1.08E+02	57.41			1.08E+02	5.74E+01
	20	510.68	1.68E+02	44.68	8.80E+01	5.43E+00	8.04E+01	4.50E+01
	21	583.40	2.28E+02	45.43	3.96E+00	4.13E+00	2.24E+02	4.56E+01
	22	609.28	2.46E+02	51.29	8.00E+00	4.15E+00	2.38E+02	5.15E+01
	23	642.86	1.34E+01	13.53			1.34E+01	1.35E+01
	24	648.51	1.65E+01	19.49			1.65E+01	1.95E+01
	25	727.84	5.10E+01	31.98	2.83E+00	2.91E+00	4.82E+01	3.21E+01
	26	785.72	3.07E+01	29.27			3.07E+01	2.93E+01
	27	793.53	1.85E+01	24.08			1.85E+01	2.41E+01
	28	863.45	4.45E+01	40.53			4.45E+01	4.05E+01
	29	911.68	1.28E+02	35.28	3.29E+00	3.12E+00	1.25E+02	3.54E+01
M	30	964.77	2.05E+01	26.68			2.05E+01	2.67E+01
m	31	969.16	6.93E+01	29.19			6.93E+01	2.92E+01
	32	1003.03	1.70E+01	18.87			1.70E+01	1.89E+01
	33	1120.57	4.28E+01	30.04			4.28E+01	3.00E+01
	34	1238.53	1.91E+01	16.63			1.91E+01	1.66E+01
	35	1260.42	1.67E+01	18.44			1.67E+01	1.84E+01

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	36	1269.31	1.54E+01	16.30			1.54E+01	1.63E+01
	37	1377.78	1.84E+01	13.01			1.84E+01	1.30E+01
	38	1450.99	8.04E+00	8.17			8.04E+00	8.17E+00
	39	1460.97	3.94E+02	43.17	5.51E+00	2.16E+00	3.89E+02	4.32E+01
	40	1562.91	1.10E+01	6.63			1.10E+01	6.63E+00
	41	1587.53	1.30E+01	13.11			1.30E+01	1.31E+01
M	42	1617.67	5.69E+00	3.87			5.69E+00	3.87E+00
m	43	1623.51	9.69E+00	10.95			9.69E+00	1.10E+01
	44	1638.05	8.50E+00	8.51			8.50E+00	8.51E+00
	45	1660.67	8.91E+00	8.02			8.91E+00	8.02E+00
	46	1703.57	6.00E+00	4.90			6.00E+00	4.90E+00
	47	1728.74	1.20E+01	13.71			1.20E+01	1.37E+01
	48	1764.64	7.42E+01	18.82	1.06E+00	1.86E+00	7.32E+01	1.89E+01
	49	1816.81	5.50E+00	7.78			5.50E+00	7.78E+00
	50	1847.20	1.12E+01	8.25			1.12E+01	8.25E+00
	51	2104.47	1.20E+01	12.85			1.20E+01	1.28E+01
	52	2204.27	1.90E+01	8.72			1.90E+01	8.72E+00
	53	2338.20	1.10E+01	6.63			1.10E+01	6.63E+00
	54	2446.34	1.10E+01	6.63			1.10E+01	6.63E+00
	55	2614.48	8.10E+01	18.00	3.94E+00	1.34E+00	7.71E+01	1.80E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 8:19:41AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.69	1.15E+02	60.40	4.67E+01	7.87E+00	6.81E+01	6.09E+01
	2	63.46	2.46E+02	93.34	1.06E+02	2.53E+01	1.40E+02	9.67E+01
M	3	74.94	3.14E+02	80.75			3.14E+02	8.07E+01
m	4	77.48	4.38E+02	86.58	1.37E+01	4.21E+00	4.24E+02	8.67E+01
M	5	87.80	1.64E+02	53.37			1.64E+02	5.34E+01
	6	114.56	7.20E+01	66.32			7.20E+01	6.63E+01
	7	186.16	1.71E+02	86.99	6.17E+01	7.27E+00	1.09E+02	8.73E+01
	8	209.57	4.42E+01	48.29			4.42E+01	4.83E+01

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	9	221.27	3.36E+01	41.87			3.36E+01	4.19E+01
M	10	238.72	6.66E+02	65.66	1.90E+01	5.64E+00	6.47E+02	6.59E+01
m	11	242.17	1.68E+02	53.17			1.68E+02	5.32E+01
	12	270.62	7.38E+01	49.68			7.38E+01	4.97E+01
	13	295.25	1.96E+02	47.66	3.06E+00	4.82E+00	1.93E+02	4.79E+01
	14	329.50	4.76E+01	44.00			4.76E+01	4.40E+01
	15	338.71	1.37E+02	54.04			1.37E+02	5.40E+01
	16	352.13	3.24E+02	53.70	1.06E+01	4.49E+00	3.13E+02	5.39E+01
	17	365.73	2.55E+01	28.86			2.55E+01	2.89E+01
	18	421.41	3.56E+01	32.50			3.56E+01	3.25E+01
	19	464.98	1.08E+02	57.41			1.08E+02	5.74E+01
	20	510.68	1.68E+02	44.68	8.80E+01	5.43E+00	8.04E+01	4.50E+01
	21	583.40	2.28E+02	45.43	3.96E+00	4.13E+00	2.24E+02	4.56E+01
	22	609.28	2.46E+02	51.29	8.00E+00	4.15E+00	2.38E+02	5.15E+01
	23	642.86	1.34E+01	13.53			1.34E+01	1.35E+01
	24	648.51	1.65E+01	19.49			1.65E+01	1.95E+01
	25	727.84	5.10E+01	31.98	2.83E+00	2.91E+00	4.82E+01	3.21E+01
	26	785.72	3.07E+01	29.27			3.07E+01	2.93E+01
	27	793.53	1.85E+01	24.08			1.85E+01	2.41E+01
	28	863.45	4.45E+01	40.53			4.45E+01	4.05E+01
	29	911.68	1.28E+02	35.28	3.29E+00	3.12E+00	1.25E+02	3.54E+01
M	30	964.77	2.05E+01	26.68			2.05E+01	2.67E+01
m	31	969.16	6.93E+01	29.19			6.93E+01	2.92E+01
	32	1003.03	1.70E+01	18.87			1.70E+01	1.89E+01
	33	1120.57	4.28E+01	30.04			4.28E+01	3.00E+01
	34	1238.53	1.91E+01	16.63			1.91E+01	1.66E+01
	35	1260.42	1.67E+01	18.44			1.67E+01	1.84E+01
	36	1269.31	1.54E+01	16.30			1.54E+01	1.63E+01
	37	1377.78	1.84E+01	13.01			1.84E+01	1.30E+01
	38	1450.99	8.04E+00	8.17			8.04E+00	8.17E+00
	39	1460.97	3.94E+02	43.17	5.51E+00	2.16E+00	3.89E+02	4.32E+01
	40	1562.91	1.10E+01	6.63			1.10E+01	6.63E+00
	41	1587.53	1.30E+01	13.11			1.30E+01	1.31E+01
M	42	1617.67	5.69E+00	3.87			5.69E+00	3.87E+00
m	43	1623.51	9.69E+00	10.95			9.69E+00	1.10E+01
	44	1638.05	8.50E+00	8.51			8.50E+00	8.51E+00
	45	1660.67	8.91E+00	8.02			8.91E+00	8.02E+00
	46	1703.57	6.00E+00	4.90			6.00E+00	4.90E+00
	47	1728.74	1.20E+01	13.71			1.20E+01	1.37E+01
	48	1764.64	7.42E+01	18.82	1.06E+00	1.86E+00	7.32E+01	1.89E+01
	49	1816.81	5.50E+00	7.78			5.50E+00	7.78E+00
	50	1847.20	1.12E+01	8.25			1.12E+01	8.25E+00
	51	2104.47	1.20E+01	12.85			1.20E+01	1.28E+01
	52	2204.27	1.90E+01	8.72			1.90E+01	8.72E+00
	53	2338.20	1.10E+01	6.63			1.10E+01	6.63E+00
	54	2446.34	1.10E+01	6.63			1.10E+01	6.63E+00
	55	2614.48	8.10E+01	18.00	3.94E+00	1.34E+00	7.71E+01	1.80E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-08

FEEBRISID-12 074-075

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.996	1460.81	*	10.67	1.22E+01	1.72E+00
CD-109	0.991	88.03	*	3.72	2.69E+00	9.25E-01
SN-126	0.992	87.57	*	37.00	2.60E-01	8.78E-02
TL-208	0.883	583.14	*	30.22	1.21E+00	2.70E-01
		860.37		4.48		
		2614.66	*	35.85	9.43E-01	2.35E-01
PB-210	0.994	46.50	*	4.25	1.58E+00	1.42E+00
BI-212	0.709	727.17	*	11.80	7.94E-01	5.35E-01
		1620.62		2.75		
PB-212	0.893	238.63	*	44.60	1.26E+00	1.67E-01
		300.09		3.41		
BI-214	0.997	609.31	*	46.30	8.71E-01	2.04E-01
		1120.29	*	15.10	7.78E-01	5.50E-01
		1764.49	*	15.80	1.75E+00	4.73E-01
		2204.22	*	4.98	1.61E+00	7.49E-01
PB-214	0.995	295.21	*	19.19	1.00E+00	2.61E-01
		351.92	*	37.19	9.49E-01	1.80E-01
RA-226	1.000	186.21	*	3.28	2.48E+00	4.96E+00
AC-228	0.966	338.32	*	11.40	1.32E+00	5.31E-01
		911.07	*	27.70	1.05E+00	3.11E-01
		969.11	*	16.60	1.02E+00	4.39E-01
TH-234	0.995	63.29	*	3.80	2.45E+00	1.71E+00
AM-243	0.989	74.67	*	66.00	2.89E-01	7.79E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:19:41AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	77.48	1.17853E-01	10.22		
	6	114.56	2.00107E-02	46.03		
	8	209.57	1.22855E-02	54.59	Tol.	GA-67 CM-243
	9	221.27	9.32643E-03	62.35		
m	11	242.17	4.67706E-02	15.79		
	12	270.62	2.04875E-02	33.68		
	14	329.50	1.32284E-02	46.20	Tol.	LA-140
	17	365.73	7.09467E-03	56.50		
	18	421.41	9.89583E-03	45.61		
	19	464.98	3.00090E-02	26.57		
	20	510.68	2.23242E-02	28.00		
	23	642.86	3.71399E-03	50.59		
	24	648.51	4.58937E-03	58.99		
	26	785.72	8.51406E-03	47.76		
	27	793.53	5.14800E-03	64.97		
	28	863.45	1.23676E-02	45.52		
M	30	964.77	5.68067E-03	65.24	Tol.	EU-152
	32	1003.03	4.72222E-03	55.49		
	34	1238.53	5.29472E-03	43.62	Tol.	CO-56
	35	1260.42	4.64286E-03	55.16	Tol.	I-135
	36	1269.31	4.28315E-03	52.86		
	37	1377.78	5.09774E-03	35.44		
	38	1450.99	2.23380E-03	50.80		
	40	1562.91	3.05556E-03	30.15		
	41	1587.53	3.60507E-03	50.53		
M	42	1617.67	1.58174E-03	34.01		
m	43	1623.51	2.69305E-03	56.50		
	44	1638.05	2.36111E-03	50.09		
	45	1660.67	2.47475E-03	44.99		
	46	1703.57	1.66667E-03	40.82	Sum	
	47	1728.74	3.33333E-03	57.13		
	49	1816.81	1.52778E-03	70.71		
	50	1847.20	3.09829E-03	36.97		
	51	2104.47	3.33333E-03	53.52	S-Esc	
	53	2338.20	3.05556E-03	30.15		
	54	2446.34	3.05556E-03	30.15		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-08

FEEBRISID-12 074-075

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.22E+01	1.72E+00
CD-109	0.99	88.03	*	3.72	2.69E+00	9.25E-01
SN-126	0.99	87.57	*	37.00	2.60E-01	8.78E-02
TL-208	0.88	583.14	*	30.22	1.21E+00	2.70E-01
		860.37		4.48		
		2614.66	*	35.85	9.43E-01	2.35E-01
PB-210	0.99	46.50	*	4.25	1.58E+00	1.42E+00
BI-212	0.70	727.17	*	11.80	7.94E-01	5.35E-01
		1620.62		2.75		
PB-212	0.89	238.63	*	44.60	1.26E+00	1.67E-01
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	8.71E-01	2.04E-01
		1120.29	*	15.10	7.78E-01	5.50E-01
		1764.49	*	15.80	1.75E+00	4.73E-01
		2204.22	*	4.98	1.61E+00	7.49E-01
PB-214	0.99	295.21	*	19.19	1.00E+00	2.61E-01
		351.92	*	37.19	9.49E-01	1.80E-01
RA-226	1.00	186.21	*	3.28	2.48E+00	4.96E+00
AC-228	0.96	338.32	*	11.40	1.32E+00	5.31E-01
		911.07	*	27.70	1.05E+00	3.11E-01
		969.11	*	16.60	1.02E+00	4.39E-01
TH-234	0.99	63.29	*	3.80	2.45E+00	1.71E+00
AM-243	0.98	74.67	*	66.00	2.89E-01	7.79E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.996	1.22E+01	1.72E+00	
?	CD-109	0.991	2.69E+00	9.25E-01	
?	SN-126	0.992	2.60E-01	8.78E-02	
	TL-208	0.883	1.06E+00	1.77E-01	
	PB-210	0.994	1.58E+00	1.42E+00	
	BI-212	0.709	7.94E-01	5.35E-01	
	PB-212	0.893	1.26E+00	1.67E-01	
	BI-214	0.997	1.02E+00	1.73E-01	
	PB-214	0.995	9.67E-01	1.48E-01	
	RA-226	1.000	2.48E+00	4.96E+00	
	AC-228	0.966	1.09E+00	2.29E-01	
	TH-234	0.995	2.45E+00	1.71E+00	
	AM-243	0.989	2.89E-01	7.79E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-08

FEEBRISID-12 074-075

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:19:41AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	77.48	1.17853E-01	10.22		
	6	114.56	2.00107E-02	46.03		
	8	209.57	1.22855E-02	54.59	Tol.	GA-67 CM-243
	9	221.27	9.32643E-03	62.35		
m	11	242.17	4.67706E-02	15.79		
	12	270.62	2.04875E-02	33.68		
	14	329.50	1.32284E-02	46.20	Tol.	LA-140
	17	365.73	7.09467E-03	56.50		
	18	421.41	9.89583E-03	45.61		
	19	464.98	3.00090E-02	26.57		
	20	510.68	2.23242E-02	28.00		
	23	642.86	3.71399E-03	50.59		
	24	648.51	4.58937E-03	58.99		
	26	785.72	8.51406E-03	47.76		
	27	793.53	5.14800E-03	64.97		
	28	863.45	1.23676E-02	45.52		
M	30	964.77	5.68067E-03	65.24	Tol.	EU-152
	32	1003.03	4.72222E-03	55.49		
	34	1238.53	5.29472E-03	43.62	Tol.	CO-56
	35	1260.42	4.64286E-03	55.16	Tol.	I-135
	36	1269.31	4.28315E-03	52.86		
	37	1377.78	5.09774E-03	35.44		
	38	1450.99	2.23380E-03	50.80		
	40	1562.91	3.05556E-03	30.15		
	41	1587.53	3.60507E-03	50.53		
M	42	1617.67	1.58174E-03	34.01		
m	43	1623.51	2.69305E-03	56.50		
	44	1638.05	2.36111E-03	50.09		
	45	1660.67	2.47475E-03	44.99		
	46	1703.57	1.66667E-03	40.82	Sum	
	47	1728.74	3.33333E-03	57.13		
	49	1816.81	1.52778E-03	70.71		
	50	1847.20	3.09829E-03	36.97		
	51	2104.47	3.33333E-03	53.52	S-Esc	

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
53	2338.20	3.05556E-03	30.15		
54	2446.34	3.05556E-03	30.15		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	9.73E-02	8.45E-01	8.45E-01
+	NA-22	1274.54		99.94	1.32E-02	7.43E-02	7.43E-02
+	NA-24	1368.53		99.99	9.82E+11	1.25E+12	2.34E+12
		2754.09		99.86	2.69E+11		1.25E+12
+	AL-26	1808.65		99.76	9.62E-03	5.43E-02	5.43E-02
+	K-40	1460.81	*	10.67	1.22E+01	1.00E+00	1.00E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	2.05E-02	6.92E-02	6.92E-02
		78.34		96.00	1.48E-01		8.98E-02
+	SC-46	889.25		99.98	1.70E-02	9.14E-02	9.14E-02
		1120.51		99.99	1.46E-01		1.59E-01
+	V-48	983.52		99.98	-1.50E-02	2.35E-01	2.35E-01
		1312.10		97.50	-6.50E-02		2.52E-01
+	CR-51	320.08		9.83	-2.12E-01	1.08E+00	1.08E+00
+	MN-54	834.83		99.97	9.42E-03	8.74E-02	8.74E-02
+	CO-56	846.75		99.96	-7.66E-04	8.27E-02	8.27E-02
		1037.75		14.03	3.87E-02		6.74E-01
		1238.25		67.00	1.20E-01		2.07E-01
		1771.40		15.51	-7.82E-02		4.97E-01
		2598.48		16.90	-3.32E-02		3.57E-01
+	CO-57	122.06		85.51	2.42E-02	6.24E-02	6.24E-02
		136.48		10.60	-2.14E-01		4.94E-01
+	CO-58	810.76		99.40	-5.58E-02	8.14E-02	8.14E-02
+	FE-59	1099.22		56.50	-5.85E-02	2.14E-01	2.14E-01
		1291.56		43.20	1.45E-01		3.39E-01
+	CO-60	1173.22		100.00	-1.67E-02	7.44E-02	8.34E-02
		1332.49		100.00	1.48E-02		7.44E-02

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	ZN-65	1115.52		50.75	-3.21E-02	1.81E-01	1.81E-01
+	GA-67	93.31		35.70	1.77E+02	7.50E+01	7.50E+01
		208.95		2.24	6.20E+02		9.98E+02
		300.22		16.00	3.67E+01		1.36E+02
+	SE-75	121.11		16.70	-1.97E-01	9.18E-02	3.35E-01
		136.00		59.20	-1.48E-03		9.65E-02
		264.65		59.80	-1.31E-02		9.18E-02
		279.53		25.20	9.08E-02		2.66E-01
		400.65		11.40	4.96E-02		5.72E-01
+	RB-82	776.52		13.00	-7.31E-02	1.02E+00	1.02E+00
+	RB-83	520.41		46.00	6.80E-02	1.72E-01	1.72E-01
		529.64		30.30	-8.78E-02		2.28E-01
		552.65		16.40	8.68E-02		4.79E-01
+	KR-85	513.99		0.43	1.97E+01	2.17E+01	2.17E+01
+	SR-85	513.99		99.27	1.16E-01	1.27E-01	1.27E-01
+	Y-88	898.02		93.40	1.60E-02	8.14E-02	9.50E-02
		1836.01		99.38	1.36E-02		8.14E-02
+	NB-93M	16.57		9.43	-8.41E+01	7.69E+01	7.69E+01
+	NB-94	702.63		100.00	3.02E-02	6.04E-02	7.72E-02
		871.10		100.00	9.15E-04		6.04E-02
+	NB-95	765.79		99.81	1.54E-01	1.65E-01	1.65E-01
+	NB-95M	235.69		25.00	-3.01E+02	6.11E+01	6.11E+01
+	ZR-95	724.18		43.70	7.83E-03	1.92E-01	2.58E-01
		756.72		55.30	9.68E-02		1.92E-01
+	MO-99	181.06		6.20	4.53E+02	6.80E+02	9.68E+02
		739.58		12.80	-3.97E+01		6.80E+02
		778.00		4.50	1.75E+02		1.62E+03
+	RU-103	497.08		89.00	1.98E-02	1.25E-01	1.25E-01
+	RU-106	621.84		9.80	2.50E-01	7.11E-01	7.11E-01
+	AG-108M	433.93		89.90	-7.29E-04	7.11E-02	7.11E-02
		614.37		90.40	1.48E-02		8.06E-02
		722.95		90.50	3.29E-02		8.85E-02
+	CD-109	88.03	*	3.72	2.69E+00	3.51E+00	3.51E+00
+	AG-110M	657.75		93.14	-3.03E-02	7.22E-02	7.22E-02
		677.61		10.53	-5.30E-02		6.66E-01
		706.67		16.46	-3.01E-01		4.57E-01
		763.93		21.98	-3.87E-01		3.79E-01
		884.67		71.63	-9.20E-03		9.67E-02
		1384.27		23.94	-5.09E-02		3.49E-01
+	CD-113M	263.70		0.02	2.80E+01	2.09E+02	2.09E+02
+	SN-113	255.12		1.93	-2.82E-01	9.36E-02	3.06E+00
		391.69		64.90	1.37E-02		9.36E-02
+	TE123M	159.00		84.10	-5.48E-02	6.91E-02	6.91E-02
+	SB-124	602.71		97.87	-6.69E-03	1.03E-01	1.03E-01
		645.85		7.26	-5.37E-02		1.12E+00
		722.78		11.10	3.69E-01		9.95E-01
		1691.02		49.00	-1.04E-02		1.88E-01
+	I-125	35.49		6.49	-1.50E-01	3.04E+00	3.04E+00

Analysis Report for 1507047-08

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		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		SB-125	176.33		6.89	-5.34E-01	2.18E-01	7.15E-01
			427.89		29.33	5.74E-02		2.18E-01
			463.38		10.35	6.70E-01		7.85E-01
			600.56		17.80	-7.41E-02		3.99E-01
			635.90		11.32	1.84E-01		5.29E-01
+		SB-126	414.70		83.30	-2.19E-01	2.93E-01	2.93E-01
			666.33		99.60	2.86E-02		3.70E-01
			695.00		99.60	3.01E-02		3.38E-01
			720.50		53.80	1.35E-01		6.85E-01
+		SN-126	87.57	*	37.00	2.60E-01	3.39E-01	3.39E-01
+		SB-127	473.00		25.00	-6.17E-01	3.25E+01	3.62E+01
			685.20		35.70	7.74E+00		3.25E+01
			783.80		14.70	3.42E+01		8.47E+01
+		I-129	29.78		57.00	-1.81E-02	5.17E-01	5.17E-01
			33.60		13.20	-1.66E-01		1.32E+00
			39.58		7.52	-1.30E-01		1.45E+00
+		I-131	284.30		6.05	-1.20E+00	7.37E-01	9.75E+00
			364.48		81.20	2.35E-01		7.37E-01
			636.97		7.26	1.42E+00		8.96E+00
			722.89		1.80	1.84E+01		4.97E+01
+		TE-132	49.72		13.10	-5.29E+01	2.17E+01	2.23E+02
			228.16		88.00	-1.03E+01		2.17E+01
+		BA-133	81.00		33.00	-5.07E-01	9.41E-02	1.86E-01
			302.84		17.80	2.88E-02		3.12E-01
			356.01		60.00	-4.23E-01		9.41E-02
+		I-133	529.87		86.30	-1.31E+08	3.39E+08	3.39E+08
+		XE-133	81.00		38.00	-1.77E+01	6.51E+00	6.51E+00
+		CS-134	563.23		8.38	3.93E-01	8.75E-02	8.49E-01
			569.32		15.43	1.41E-01		4.90E-01
			604.70		97.60	-4.48E-03		8.75E-02
			795.84		85.40	1.36E-02		9.02E-02
			801.93		8.73	-1.43E-01		7.75E-01
+		CS-135	268.24		16.00	8.86E-02	3.60E-01	3.60E-01
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	1.00E+00	3.11E-01	3.13E+00
			163.89		4.61	5.44E-04		4.93E+00
			176.55		13.56	-1.16E+00		1.56E+00
			273.65		12.66	-2.34E+00		1.87E+00
			340.57		48.50	5.78E-01		6.23E-01
			818.50		99.70	2.13E-02		3.11E-01
			1048.07		79.60	-9.05E-02		4.20E-01
			1235.34		19.70	1.14E-01		2.34E+00
+		CS-137	661.65		85.12	3.31E-02	8.96E-02	8.96E-02
+		LA-138	788.74		34.00	-2.54E-02	7.95E-02	2.42E-01
			1435.80		66.00	-9.39E-03		7.95E-02
+		CE-139	165.85		80.35	6.88E-03	7.37E-02	7.37E-02
+		BA-140	162.64		6.70	-7.60E-01	1.15E+00	3.49E+00

Analysis Report for 1507047-08

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-140	304.84	4.50	-7.50E-01	1.15E+00	5.27E+00
		423.70	3.20	1.80E-01		8.99E+00
		437.55	2.00	-2.73E-02		1.47E+01
		537.32	25.00	8.45E-02		1.15E+00
+	LA-140	328.77	20.50	6.22E-01	3.20E-01	1.34E+00
		487.03	45.50	-6.56E-02		6.23E-01
		815.85	23.50	1.17E-01		1.36E+00
		1596.49	95.49	9.06E-02		3.20E-01
+	CE-141	145.44	48.40	6.18E-02	2.02E-01	2.02E-01
+	CE-143	57.36	11.80	-1.50E+05	2.52E+05	7.96E+05
		293.26	42.00	4.69E+05		2.52E+05
		664.55	5.20	9.82E+05		2.07E+06
+	CE-144	133.54	10.80	-3.06E-03	4.99E-01	4.99E-01
+	PM-144	476.78	42.00	-2.55E-02	7.72E-02	1.47E-01
		618.01	98.60	2.78E-02		7.88E-02
		696.49	99.49	-1.13E-02		7.72E-02
+	PM-145	36.85	21.70	-4.15E-01	3.15E-01	5.80E-01
		37.36	39.70	-8.84E-03		3.15E-01
		42.30	15.10	5.59E-02		6.29E-01
		72.40	2.31	1.15E-01		3.43E+00
+	PM-146	453.90	39.94	4.97E-02	1.67E-01	1.67E-01
		735.90	14.01	-1.78E-01		5.26E-01
		747.13	13.10	-8.12E-02		5.45E-01
+	ND-147	91.11	28.90	-3.20E+00	1.40E+00	1.40E+00
		531.02	13.10	1.03E-01		2.62E+00
+	PM-149	285.90	3.10	-1.61E+03	1.11E+04	1.11E+04
+	EU-152	121.78	20.50	9.43E-02	2.43E-01	2.43E-01
		244.69	5.40	-3.40E-01		1.08E+00
		344.27	19.13	-2.10E-02		2.70E-01
		778.89	9.20	1.68E-02		6.51E-01
		964.01	10.40	-1.69E+00		9.45E-01
		1085.78	7.22	1.91E-01		1.10E+00
		1112.02	9.60	4.67E-01		9.27E-01
		1407.95	14.94	2.58E-01		5.37E-01
+	GD-153	97.43	31.30	-1.13E-02	1.69E-01	1.69E-01
		103.18	22.20	-1.66E-01		2.36E-01
+	EU-154	123.07	40.50	6.49E-02	1.26E-01	1.26E-01
		723.30	19.70	1.52E-01		4.09E-01
		873.19	11.50	-9.84E-03		5.46E-01
		996.32	10.30	-7.02E-02		6.56E-01
		1004.76	17.90	-5.30E-02		4.39E-01
		1274.45	35.50	3.66E-02		2.06E-01
+	EU-155	86.50	30.90	-9.88E-02	2.12E-01	2.12E-01
		105.30	20.70	-1.75E-02		2.43E-01
+	EU-156	811.77	10.40	-1.78E+00	2.13E+00	2.13E+00
		1153.47	7.20	-8.16E-01		4.64E+00
		1230.71	8.90	2.84E-01		3.99E+00
+	HO-166M	184.41	72.60	1.47E-01	9.23E-02	9.23E-02
		280.45	29.60	-8.90E-02		1.79E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	410.94		11.10	2.48E-02	9.23E-02	5.59E-01
		711.69		54.10	-6.17E-03		1.38E-01
+	TM-171	66.72		0.14	-6.68E+00	4.96E+01	4.96E+01
+	HF-172	81.75		4.52	-1.46E+00	4.60E-01	1.35E+00
		125.81		11.30	-1.37E-01		4.60E-01
+	LU-172	181.53		20.60	-1.39E+00	2.23E+00	4.53E+00
		810.06		16.63	-5.77E-01		7.07E+00
		912.12		15.25	3.65E+01		1.70E+01
		1093.66		62.50	-2.74E-01		2.23E+00
+	LU-173	100.72		5.24	2.60E-01	3.05E-01	9.79E-01
		272.11		21.20	2.87E-01		3.05E-01
+	HF-175	343.40		84.00	-1.11E-02	8.28E-02	8.28E-02
+	LU-176	88.34		13.30	7.09E-01	5.44E-02	5.09E-01
		201.83		86.00	-3.17E-02		5.90E-02
		306.78		94.00	8.03E-03		5.44E-02
+	TA-182	67.75		41.20	5.56E-02	1.88E-01	1.88E-01
		1121.30		34.90	5.45E-01		4.36E-01
		1189.05		16.23	1.70E-02		5.82E-01
		1221.41		26.98	-1.16E-01		3.52E-01
		1231.02		11.44	7.29E-02		1.03E+00
+	IR-192	308.46		29.68	-8.54E-02	1.84E-01	2.13E-01
		468.07		48.10	-8.79E-02		1.84E-01
+	HG-203	279.19		77.30	2.76E-02	1.11E-01	1.11E-01
+	BI-207	569.67		97.72	1.77E-02	7.47E-02	7.47E-02
		1063.62		74.90	7.40E-03		1.12E-01
+	TL-208	583.14	*	30.22	1.21E+00	1.17E-01	3.21E-01
		860.37		4.48	4.96E-01		1.91E+00
		2614.66	*	35.85	9.43E-01		1.17E-01
+	BI-210M	262.00		45.00	-7.65E-02	1.01E-01	1.01E-01
		300.00		23.00	6.64E-02		2.47E-01
+	PB-210	46.50	*	4.25	1.58E+00	2.30E+00	2.30E+00
+	PB-211	404.84		2.90	-7.08E-01	1.87E+00	1.87E+00
		831.96		2.90	-6.22E-01		2.63E+00
+	BI-212	727.17	*	11.80	7.94E-01	8.30E-01	8.30E-01
		1620.62		2.75	6.86E-01		2.78E+00
+	PB-212	238.63	*	44.60	1.26E+00	3.15E-01	3.15E-01
		300.09		3.41	4.48E-01		1.67E+00
+	BI-214	609.31	*	46.30	8.71E-01	2.29E-01	2.58E-01
		1120.29	*	15.10	7.78E-01		8.57E-01
		1764.49	*	15.80	1.75E+00		3.82E-01
		2204.22	*	4.98	1.61E+00		2.29E-01
+	PB-214	295.21	*	19.19	1.00E+00	2.11E-01	3.48E-01
		351.92	*	37.19	9.49E-01		2.11E-01
+	RN-219	401.80		6.50	1.30E-01	8.64E-01	8.64E-01
+	RA-223	323.87		3.88	5.04E-01	1.39E+00	1.39E+00
+	RA-224	240.98		3.95	1.31E+01	2.96E+00	2.96E+00
+	RA-225	40.00		31.00	-1.14E-01	1.27E+00	1.27E+00
+	RA-226	186.21	*	3.28	2.48E+00	3.22E+00	3.22E+00

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TH-227	50.10		8.40	-2.11E-01	6.15E-01	8.92E-01
		236.00		11.50	-3.03E+00		6.15E-01
		256.20		6.30	-1.25E-01		7.88E-01
+	AC-228	338.32	*	11.40	1.32E+00	4.03E-01	7.97E-01
		911.07	*	27.70	1.05E+00		4.03E-01
		969.11	*	16.60	1.02E+00		1.06E+00
+	TH-230	48.44		16.90	9.78E-02	5.17E-01	5.17E-01
		62.85		4.60	3.09E+00		1.76E+00
		67.67		0.37	5.23E+00		1.77E+01
+	PA-231	283.67		1.60	6.48E-01	2.40E+00	3.39E+00
		302.67		2.30	2.22E-01		2.40E+00
+	TH-231	25.64		14.70	9.92E-01	9.33E-01	5.85E+00
		84.21		6.40	-2.18E+00		9.33E-01
+	PA-233	311.98		38.60	-4.11E-02	2.59E-01	2.59E-01
+	PA-234	131.20		20.40	2.48E-02	2.52E-01	2.52E-01
		733.99		8.80	1.69E-01		8.63E-01
		946.00		12.00	3.11E-02		6.04E-01
+	PA-234M	1001.03		0.92	4.44E-01	8.25E+00	8.25E+00
+	TH-234	63.29	*	3.80	2.45E+00	2.75E+00	2.75E+00
+	U-235	143.76		10.50	3.04E-01	5.09E-01	5.09E-01
		163.35		4.70	1.22E-04		1.11E+00
		205.31		4.70	1.61E-01		1.12E+00
+	NP-237	86.50		12.60	-2.40E-01	5.14E-01	5.14E-01
+	NP-239	106.10		22.70	-5.99E+01	8.33E+02	8.33E+02
		228.18		10.70	-8.30E+02		1.76E+03
		277.60		14.10	-3.21E+00		1.51E+03
+	AM-241	59.54		35.90	4.13E-03	1.95E-01	1.95E-01
+	AM-243	74.67	*	66.00	2.89E-01	1.81E-01	1.81E-01
+	CM-243	209.75		3.29	9.51E-01	4.01E-01	1.76E+00
		228.14		10.60	-2.21E-01		4.68E-01
		277.60		14.00	-8.55E-04		4.01E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1507047-08

FEEBRISID-12 074-075

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	8.45E-01	8.45E-01	9.73E-02	3.96E-01
	NA-22	1274.54		99.94	7.43E-02	7.43E-02	1.32E-02	3.30E-02
	NA-24	1368.53		99.99	2.34E+12	1.25E+12	9.82E+11	1.04E+12
		2754.09		99.86	1.25E+12		2.69E+11	4.42E+11
	AL-26	1808.65		99.76	5.43E-02	5.43E-02	9.62E-03	2.19E-02
+	K-40	1460.81	*	10.67	1.00E+00	1.00E+00	1.22E+01	4.57E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.92E-02	6.92E-02	2.05E-02	3.37E-02
		78.34		96.00	8.98E-02		1.48E-01	4.40E-02
	SC-46	889.25		99.98	9.14E-02	9.14E-02	1.70E-02	4.18E-02
		1120.51		99.99	1.59E-01		1.46E-01	7.46E-02
	V-48	983.52		99.98	2.35E-01	2.35E-01	-1.50E-02	1.06E-01
		1312.10		97.50	2.52E-01		-6.50E-02	1.11E-01
	CR-51	320.08		9.83	1.08E+00	1.08E+00	-2.12E-01	5.13E-01
	MN-54	834.83		99.97	8.74E-02	8.74E-02	9.42E-03	4.06E-02
	CO-56	846.75		99.96	8.27E-02	8.27E-02	-7.66E-04	3.75E-02
		1037.75		14.03	6.74E-01		3.87E-02	3.05E-01
		1238.25		67.00	2.07E-01		1.20E-01	9.58E-02
		1771.40		15.51	4.97E-01		-7.82E-02	2.06E-01
		2598.48		16.90	3.57E-01		-3.32E-02	1.34E-01
	CO-57	122.06		85.51	6.24E-02	6.24E-02	2.42E-02	3.01E-02
		136.48		10.60	4.94E-01		-2.14E-01	2.38E-01
	CO-58	810.76		99.40	8.14E-02	8.14E-02	-5.58E-02	3.69E-02
	FE-59	1099.22		56.50	2.14E-01	2.14E-01	-5.85E-02	9.72E-02
		1291.56		43.20	3.39E-01		1.45E-01	1.55E-01
	CO-60	1173.22		100.00	8.34E-02	7.44E-02	-1.67E-02	3.78E-02
		1332.49		100.00	7.44E-02		1.48E-02	3.29E-02
	ZN-65	1115.52		50.75	1.81E-01	1.81E-01	-3.21E-02	8.25E-02
	GA-67	93.31		35.70	7.50E+01	7.50E+01	1.77E+02	3.67E+01
		208.95		2.24	9.98E+02		6.20E+02	4.81E+02
		300.22		16.00	1.36E+02		3.67E+01	6.50E+01
	SE-75	121.11		16.70	3.35E-01	9.18E-02	-1.97E-01	1.62E-01
		136.00		59.20	9.65E-02		-1.48E-03	4.65E-02
		264.65		59.80	9.18E-02		-1.31E-02	4.34E-02
		279.53		25.20	2.66E-01		9.08E-02	1.27E-01
		400.65		11.40	5.72E-01		4.96E-02	2.69E-01
	RB-82	776.52		13.00	1.02E+00	1.02E+00	-7.31E-02	4.64E-01
	RB-83	520.41		46.00	1.72E-01	1.72E-01	6.80E-02	8.07E-02
		529.64		30.30	2.28E-01		-8.78E-02	1.05E-01
		552.65		16.40	4.79E-01		8.68E-02	2.23E-01
	KR-85	513.99		0.43	2.17E+01	2.17E+01	1.97E+01	1.04E+01
	SR-85	513.99		99.27	1.27E-01	1.27E-01	1.16E-01	6.09E-02
	Y-88	898.02		93.40	9.50E-02	8.14E-02	1.60E-02	4.35E-02
		1836.01		99.38	8.14E-02		1.36E-02	3.44E-02
	NB-93M	16.57		9.43	7.69E+01	7.69E+01	-8.41E+01	3.55E+01

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	7.72E-02	6.04E-02	3.02E-02	3.60E-02
		871.10		100.00	6.04E-02		9.15E-04	2.71E-02
	NB-95	765.79		99.81	1.65E-01	1.65E-01	1.54E-01	7.75E-02
	NB-95M	235.69		25.00	6.11E+01	6.11E+01	-3.01E+02	2.96E+01
	ZR-95	724.18		43.70	2.58E-01	1.92E-01	7.83E-03	1.21E-01
		756.72		55.30	1.92E-01		9.68E-02	8.93E-02
	MO-99	181.06		6.20	9.68E+02	6.80E+02	4.53E+02	4.65E+02
		739.58		12.80	6.80E+02		-3.97E+01	3.16E+02
		778.00		4.50	1.62E+03		1.75E+02	7.37E+02
	RU-103	497.08		89.00	1.25E-01	1.25E-01	1.98E-02	5.89E-02
	RU-106	621.84		9.80	7.11E-01	7.11E-01	2.50E-01	3.31E-01
	AG-108M	433.93		89.90	7.11E-02	7.11E-02	-7.29E-04	3.36E-02
		614.37		90.40	8.06E-02		1.48E-02	3.77E-02
		722.95		90.50	8.85E-02		3.29E-02	4.14E-02
+	CD-109	88.03	*	3.72	3.51E+00	3.51E+00	2.69E+00	1.73E+00
	AG-110M	657.75		93.14	7.22E-02	7.22E-02	-3.03E-02	3.33E-02
		677.61		10.53	6.66E-01		-5.30E-02	3.07E-01
		706.67		16.46	4.57E-01		-3.01E-01	2.11E-01
		763.93		21.98	3.79E-01		-3.87E-01	1.76E-01
		884.67		71.63	9.67E-02		-9.20E-03	4.37E-02
		1384.27		23.94	3.49E-01		-5.09E-02	1.55E-01
	CD-113M	263.70		0.02	2.09E+02	2.09E+02	2.80E+01	9.88E+01
	SN-113	255.12		1.93	3.06E+00	9.36E-02	-2.82E-01	1.45E+00
		391.69		64.90	9.36E-02		1.37E-02	4.38E-02
	TE123M	159.00		84.10	6.91E-02	6.91E-02	-5.48E-02	3.32E-02
	SB-124	602.71		97.87	1.03E-01	1.03E-01	-6.69E-03	4.83E-02
		645.85		7.26	1.12E+00		-5.37E-02	5.14E-01
		722.78		11.10	9.95E-01		3.69E-01	4.65E-01
		1691.02		49.00	1.88E-01		-1.04E-02	8.02E-02
	I-125	35.49		6.49	3.04E+00	3.04E+00	-1.50E-01	1.47E+00
	SB-125	176.33		6.89	7.15E-01	2.18E-01	-5.34E-01	3.43E-01
		427.89		29.33	2.18E-01		5.74E-02	1.03E-01
		463.38		10.35	7.85E-01		6.70E-01	3.74E-01
		600.56		17.80	3.99E-01		-7.41E-02	1.87E-01
		635.90		11.32	5.29E-01		1.84E-01	2.43E-01
	SB-126	414.70		83.30	2.93E-01	2.93E-01	-2.19E-01	1.37E-01
		666.33		99.60	3.70E-01		2.86E-02	1.73E-01
		695.00		99.60	3.38E-01		3.01E-02	1.57E-01
		720.50		53.80	6.85E-01		1.35E-01	3.19E-01
+	SN-126	87.57	*	37.00	3.39E-01	3.39E-01	2.60E-01	1.67E-01
	SB-127	473.00		25.00	3.62E+01	3.25E+01	-6.17E-01	1.69E+01
		685.20		35.70	3.25E+01		7.74E+00	1.52E+01
		783.80		14.70	8.47E+01		3.42E+01	3.94E+01
	I-129	29.78		57.00	5.17E-01	5.17E-01	-1.81E-02	2.50E-01
		33.60		13.20	1.32E+00		-1.66E-01	6.38E-01
		39.58		7.52	1.45E+00		-1.30E-01	6.99E-01
	I-131	284.30		6.05	9.75E+00	7.37E-01	-1.20E+00	4.63E+00
		364.48		81.20	7.37E-01		2.35E-01	3.47E-01
		636.97		7.26	8.96E+00		1.42E+00	4.12E+00
		722.89		1.80	4.97E+01		1.84E+01	2.32E+01
	TE-132	49.72		13.10	2.23E+02	2.17E+01	-5.29E+01	1.08E+02
		228.16		88.00	2.17E+01		-1.03E+01	1.04E+01
	BA-133	81.00		33.00	1.86E-01	9.41E-02	-5.07E-01	9.06E-02

Analysis Report for 1507047-08

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-133	302.84	17.80	3.12E-01	9.41E-02	2.88E-02	1.48E-01
	356.01	60.00	9.41E-02		-4.23E-01	4.45E-02
I-133	529.87	86.30	3.39E+08	3.39E+08	-1.31E+08	1.57E+08
XE-133	81.00	38.00	6.51E+00	6.51E+00	-1.77E+01	3.17E+00
CS-134	563.23	8.38	8.49E-01	8.75E-02	3.93E-01	3.98E-01
	569.32	15.43	4.90E-01		1.41E-01	2.31E-01
	604.70	97.60	8.75E-02		-4.48E-03	4.14E-02
	795.84	85.40	9.02E-02		1.36E-02	4.17E-02
	801.93	8.73	7.75E-01		-1.43E-01	3.54E-01
CS-135	268.24	16.00	3.60E-01	3.60E-01	8.86E-02	1.72E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	3.13E+00	3.11E-01	1.00E+00	1.51E+00
	163.89	4.61	4.93E+00		5.44E-04	2.38E+00
	176.55	13.56	1.56E+00		-1.16E+00	7.48E-01
	273.65	12.66	1.87E+00		-2.34E+00	8.90E-01
	340.57	48.50	6.23E-01		5.78E-01	2.98E-01
	818.50	99.70	3.11E-01		2.13E-02	1.43E-01
	1048.07	79.60	4.20E-01		-9.05E-02	1.91E-01
	1235.34	19.70	2.34E+00		1.14E-01	1.08E+00
CS-137	661.65	85.12	8.96E-02	8.96E-02	3.31E-02	4.19E-02
LA-138	788.74	34.00	2.42E-01	7.95E-02	-2.54E-02	1.13E-01
	1435.80	66.00	7.95E-02		-9.39E-03	3.30E-02
CE-139	165.85	80.35	7.37E-02	7.37E-02	6.88E-03	3.55E-02
BA-140	162.64	6.70	3.49E+00	1.15E+00	-7.60E-01	1.68E+00
	304.84	4.50	5.27E+00		-7.50E-01	2.50E+00
	423.70	3.20	8.99E+00		1.80E-01	4.25E+00
	437.55	2.00	1.47E+01		-2.73E-02	6.96E+00
	537.32	25.00	1.15E+00		8.45E-02	5.38E-01
LA-140	328.77	20.50	1.34E+00	3.20E-01	6.22E-01	6.39E-01
	487.03	45.50	6.23E-01		-6.56E-02	2.92E-01
	815.85	23.50	1.36E+00		1.17E-01	6.23E-01
	1596.49	95.49	3.20E-01		9.06E-02	1.37E-01
CE-141	145.44	48.40	2.02E-01	2.02E-01	6.18E-02	9.76E-02
CE-143	57.36	11.80	7.96E+05	2.52E+05	-1.50E+05	3.87E+05
	293.26	42.00	2.52E+05		4.69E+05	1.22E+05
	664.55	5.20	2.07E+06		9.82E+05	9.70E+05
CE-144	133.54	10.80	4.99E-01	4.99E-01	-3.06E-03	2.41E-01
PM-144	476.78	42.00	1.47E-01	7.72E-02	-2.55E-02	6.87E-02
	618.01	98.60	7.88E-02		2.78E-02	3.69E-02
	696.49	99.49	7.72E-02		-1.13E-02	3.59E-02
PM-145	36.85	21.70	5.80E-01	3.15E-01	-4.15E-01	2.79E-01
	37.36	39.70	3.15E-01		-8.84E-03	1.52E-01
	42.30	15.10	6.29E-01		5.59E-02	3.04E-01
	72.40	2.31	3.43E+00		1.15E-01	1.68E+00
PM-146	453.90	39.94	1.67E-01	1.67E-01	4.97E-02	7.89E-02
	735.90	14.01	5.26E-01		-1.78E-01	2.44E-01
	747.13	13.10	5.45E-01		-8.12E-02	2.52E-01
ND-147	91.11	28.90	1.40E+00	1.40E+00	-3.20E+00	6.85E-01
	531.02	13.10	2.62E+00		1.03E-01	1.22E+00
PM-149	285.90	3.10	1.11E+04	1.11E+04	-1.61E+03	5.27E+03
EU-152	121.78	20.50	2.43E-01	2.43E-01	9.43E-02	1.17E-01

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	1.08E+00	2.43E-01	-3.40E-01	5.16E-01
		344.27		19.13	2.70E-01		-2.10E-02	1.27E-01
		778.89		9.20	6.51E-01		1.68E-02	2.95E-01
		964.01		10.40	9.45E-01		-1.69E+00	4.41E-01
		1085.78		7.22	1.10E+00		1.91E-01	4.97E-01
		1112.02		9.60	9.27E-01		4.67E-01	4.25E-01
		1407.95		14.94	5.37E-01		2.58E-01	2.39E-01
	GD-153	97.43		31.30	1.69E-01	1.69E-01	-1.13E-02	8.19E-02
		103.18		22.20	2.36E-01		-1.66E-01	1.14E-01
	EU-154	123.07		40.50	1.26E-01	1.26E-01	6.49E-02	6.09E-02
		723.30		19.70	4.09E-01		1.52E-01	1.91E-01
		873.19		11.50	5.46E-01		-9.84E-03	2.47E-01
		996.32		10.30	6.56E-01		-7.02E-02	2.95E-01
		1004.76		17.90	4.39E-01		-5.30E-02	2.00E-01
		1274.45		35.50	2.06E-01		3.66E-02	9.15E-02
	EU-155	86.50		30.90	2.12E-01	2.12E-01	-9.88E-02	1.03E-01
		105.30		20.70	2.43E-01		-1.75E-02	1.18E-01
	EU-156	811.77		10.40	2.13E+00	2.13E+00	-1.78E+00	9.64E-01
		1153.47		7.20	4.64E+00		-8.16E-01	2.13E+00
		1230.71		8.90	3.99E+00		2.84E-01	1.84E+00
	HO-166M	184.41		72.60	9.23E-02	9.23E-02	1.47E-01	4.48E-02
		280.45		29.60	1.79E-01		-8.90E-02	8.50E-02
		410.94		11.10	5.59E-01		2.48E-02	2.64E-01
		711.69		54.10	1.38E-01		-6.17E-03	6.42E-02
	TM-171	66.72		0.14	4.96E+01	4.96E+01	-6.68E+00	2.42E+01
	HF-172	81.75		4.52	1.35E+00	4.60E-01	-1.46E+00	6.58E-01
		125.81		11.30	4.60E-01		-1.37E-01	2.22E-01
	LU-172	181.53		20.60	4.53E+00	2.23E+00	-1.39E+00	2.18E+00
		810.06		16.63	7.07E+00		-5.77E-01	3.22E+00
		912.12		15.25	1.70E+01		3.65E+01	8.12E+00
		1093.66		62.50	2.23E+00		-2.74E-01	1.01E+00
	LU-173	100.72		5.24	9.79E-01	3.05E-01	2.60E-01	4.74E-01
		272.11		21.20	3.05E-01		2.87E-01	1.46E-01
	HF-175	343.40		84.00	8.28E-02	8.28E-02	-1.11E-02	3.90E-02
	LU-176	88.34		13.30	5.09E-01	5.44E-02	7.09E-01	2.49E-01
		201.83		86.00	5.90E-02		-3.17E-02	2.83E-02
		306.78		94.00	5.44E-02		8.03E-03	2.57E-02
	TA-182	67.75		41.20	1.88E-01	1.88E-01	5.56E-02	9.15E-02
		1121.30		34.90	4.36E-01		5.45E-01	2.06E-01
		1189.05		16.23	5.82E-01		1.70E-02	2.63E-01
		1221.41		26.98	3.52E-01		-1.16E-01	1.59E-01
		1231.02		11.44	1.03E+00		7.29E-02	4.72E-01
	IR-192	308.46		29.68	2.13E-01	1.84E-01	-8.54E-02	1.00E-01
		468.07		48.10	1.84E-01		-8.79E-02	8.71E-02
	HG-203	279.19		77.30	1.11E-01	1.11E-01	2.76E-02	5.31E-02
	BI-207	569.67		97.72	7.47E-02	7.47E-02	1.77E-02	3.51E-02
		1063.62		74.90	1.12E-01		7.40E-03	5.11E-02
+	TL-208	583.14	*	30.22	3.21E-01	1.17E-01	1.21E+00	1.53E-01
		860.37		4.48	1.91E+00		4.96E-01	8.87E-01
		2614.66	*	35.85	1.17E-01		9.43E-01	4.21E-02
	BI-210M	262.00		45.00	1.01E-01	1.01E-01	-7.65E-02	4.78E-02
		300.00		23.00	2.47E-01		6.64E-02	1.18E-01
+	PB-210	46.50	*	4.25	2.30E+00	2.30E+00	1.58E+00	1.12E+00

Analysis Report for 1507047-08

FEEBRISID-12 074-075

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	1.87E+00	1.87E+00	-7.08E-01	8.77E-01
		831.96		2.90	2.63E+00		-6.22E-01	1.22E+00
+	BI-212	727.17	*	11.80	8.30E-01	8.30E-01	7.94E-01	3.93E-01
		1620.62		2.75	2.78E+00		6.86E-01	1.22E+00
+	PB-212	238.63	*	44.60	3.15E-01	3.15E-01	1.26E+00	1.55E-01
		300.09		3.41	1.67E+00		4.48E-01	7.93E-01
+	BI-214	609.31	*	46.30	2.58E-01	2.29E-01	8.71E-01	1.24E-01
		1120.29	*	15.10	8.57E-01		7.78E-01	4.04E-01
		1764.49	*	15.80	3.82E-01		1.75E+00	1.59E-01
		2204.22	*	4.98	2.29E-01		1.61E+00	0.00E+00
+	PB-214	295.21	*	19.19	3.48E-01	2.11E-01	1.00E+00	1.67E-01
		351.92	*	37.19	2.11E-01		9.49E-01	1.01E-01
	RN-219	401.80		6.50	8.64E-01	8.64E-01	1.30E-01	4.06E-01
	RA-223	323.87		3.88	1.39E+00	1.39E+00	5.04E-01	6.56E-01
	RA-224	240.98		3.95	2.96E+00	2.96E+00	1.31E+01	1.45E+00
	RA-225	40.00		31.00	1.27E+00	1.27E+00	-1.14E-01	6.13E-01
+	RA-226	186.21	*	3.28	3.22E+00	3.22E+00	2.48E+00	1.58E+00
	TH-227	50.10		8.40	8.92E-01	6.15E-01	-2.11E-01	4.32E-01
		236.00		11.50	6.15E-01		-3.03E+00	2.98E-01
		256.20		6.30	7.88E-01		-1.25E-01	3.74E-01
+	AC-228	338.32	*	11.40	7.97E-01	4.03E-01	1.32E+00	3.85E-01
		911.07	*	27.70	4.03E-01		1.05E+00	1.90E-01
		969.11	*	16.60	1.06E+00		1.02E+00	5.12E-01
	TH-230	48.44		16.90	5.17E-01	5.17E-01	9.78E-02	2.51E-01
		62.85		4.60	1.76E+00		3.09E+00	8.59E-01
		67.67		0.37	1.77E+01		5.23E+00	8.61E+00
	PA-231	283.67		1.60	3.39E+00	2.40E+00	6.48E-01	1.61E+00
		302.67		2.30	2.40E+00		2.22E-01	1.14E+00
	TH-231	25.64		14.70	5.85E+00	9.33E-01	9.92E-01	2.85E+00
		84.21		6.40	9.33E-01		-2.18E+00	4.54E-01
	PA-233	311.98		38.60	2.59E-01	2.59E-01	-4.11E-02	1.22E-01
	PA-234	131.20		20.40	2.52E-01	2.52E-01	2.48E-02	1.22E-01
		733.99		8.80	8.63E-01		1.69E-01	4.01E-01
		946.00		12.00	6.04E-01		3.11E-02	2.75E-01
	PA-234M	1001.03		0.92	8.25E+00	8.25E+00	4.44E-01	3.75E+00
+	TH-234	63.29	*	3.80	2.75E+00	2.75E+00	2.45E+00	1.35E+00
	U-235	143.76		10.50	5.09E-01	5.09E-01	3.04E-01	2.46E-01
		163.35		4.70	1.11E+00		1.22E-04	5.33E-01
		205.31		4.70	1.12E+00		1.61E-01	5.36E-01
	NP-237	86.50		12.60	5.14E-01	5.14E-01	-2.40E-01	2.51E-01
	NP-239	106.10		22.70	8.33E+02	8.33E+02	-5.99E+01	4.03E+02
		228.18		10.70	1.76E+03		-8.30E+02	8.38E+02
		277.60		14.10	1.51E+03		-3.21E+00	7.18E+02
	AM-241	59.54		35.90	1.95E-01	1.95E-01	4.13E-03	9.50E-02
+	AM-243	74.67	*	66.00	1.81E-01	1.81E-01	2.89E-01	8.93E-02
	CM-243	209.75		3.29	1.76E+00	4.01E-01	9.51E-01	8.46E-01
		228.14		10.60	4.68E-01		-2.21E-01	2.23E-01
		277.60		14.00	4.01E-01		-8.55E-04	1.91E-01

Analysis Report for 1507047-08

FEEBRISID-12 074-075

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	***Comment***	***User***

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-12 074-075

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	4	45	81	114	218	304	315
25:	62	58	48	69	52	54	48	49
33:	59	48	44	43	52	48	40	61
41:	53	54	53	46	61	62	127	90
49:	49	64	61	55	75	64	80	77
57:	71	87	77	84	85	100	127	196
65:	132	87	79	82	105	109	94	124
73:	106	137	272	241	260	364	123	88
81:	92	100	65	98	102	77	111	167
89:	83	133	99	92	215	189	73	63
97:	55	54	59	73	69	60	47	59
105:	60	67	71	53	74	58	58	61
113:	64	68	74	75	52	47	49	41
121:	62	58	52	72	52	57	61	47
129:	69	57	66	69	48	51	49	57
137:	48	46	52	61	39	50	54	71
145:	60	56	55	50	53	49	56	45
153:	49	66	53	61	45	39	48	43
161:	49	53	44	52	38	55	48	40
169:	46	44	42	38	44	47	48	28
177:	43	28	44	49	50	36	35	41
185:	48	118	115	50	48	39	35	28
193:	44	41	28	37	42	32	40	38
201:	25	46	40	31	45	39	40	34
209:	52	58	45	35	35	35	38	45
217:	31	30	31	28	43	41	29	21
225:	27	28	24	32	31	31	43	42
233:	31	28	36	34	55	140	379	169
241:	60	98	92	31	16	23	22	28
249:	30	38	21	27	31	19	21	34
257:	22	29	27	23	22	24	17	15
265:	24	31	18	21	23	50	48	36
273:	25	25	29	22	34	41	22	25
281:	25	35	19	29	23	25	27	20
289:	26	26	14	17	27	29	80	117
297:	46	16	30	31	36	20	23	22
305:	23	22	18	19	21	18	16	25
313:	19	13	18	21	22	22	26	21
321:	16	19	21	26	24	16	19	27
329:	41	24	21	26	18	15	22	19
337:	13	67	79	22	24	25	17	17
345:	14	20	20	23	18	14	44	190
353:	127	32	21	14	15	19	19	15
361:	17	18	15	11	25	20	17	15

369:	10	13	17	14	16	17	18	21

Sample Title: FEEBRISID-12 074-075

Channel								
377:	11	15	17	16	12	9	15	17
385:	20	16	17	6	15	13	14	16
393:	15	14	14	16	18	15	17	12
401:	16	22	15	19	11	19	13	16
409:	21	24	18	6	10	5	12	14
417:	9	9	8	22	12	21	17	12
425:	11	9	17	15	11	13	20	8
433:	17	13	13	15	12	15	16	13
441:	15	16	11	15	11	6	15	13
449:	6	16	24	11	12	10	17	14
457:	10	12	13	12	16	15	30	29
465:	19	12	20	17	10	12	10	13
473:	8	6	12	10	5	13	13	11
481:	13	10	16	4	7	16	15	17
489:	11	7	8	13	10	18	15	11
497:	11	8	11	16	8	16	13	7
505:	7	8	10	21	24	39	58	47
513:	18	17	11	4	13	13	9	13
521:	9	8	9	11	9	6	5	8
529:	9	5	8	11	6	12	10	11
537:	4	12	12	11	8	9	10	7
545:	15	6	5	11	11	8	10	8
553:	11	11	10	6	8	4	8	5
561:	8	14	19	9	8	14	9	11
569:	9	13	14	16	12	12	8	13
577:	6	6	8	12	6	18	94	97
585:	24	14	8	8	5	7	4	7
593:	9	5	11	9	10	8	10	8
601:	12	8	10	14	9	16	11	33
609:	115	115	33	12	10	10	14	15
617:	9	4	8	8	17	7	8	6
625:	5	9	4	8	6	11	5	6
633:	6	5	8	8	7	7	3	5
641:	3	7	10	6	1	3	6	7
649:	10	11	4	5	7	5	6	6
657:	2	9	8	3	13	16	7	9
665:	16	14	7	10	10	7	6	11
673:	3	10	8	8	9	6	3	9
681:	6	8	8	11	7	11	14	7
689:	11	6	6	4	10	2	8	13
697:	11	8	9	9	9	14	14	6
705:	7	8	8	5	11	8	8	9
713:	16	5	4	9	12	6	9	16
721:	8	11	9	5	9	11	22	26
729:	10	14	9	8	6	8	10	11
737:	8	3	9	10	11	11	6	8
745:	6	6	10	11	6	3	6	9
753:	7	10	7	12	10	8	6	8
761:	5	4	12	12	9	4	12	18
769:	22	5	12	7	7	4	7	3
777:	6	5	4	6	5	3	9	11
785:	10	13	10	11	5	6	4	14
793:	7	11	9	9	4	3	8	4

801:	6	6	5	5	4	7	9	6

Sample Title: FEEBRISID-12 074-075

Channel								
809:	3	5	7	2	4	5	6	8
817:	9	4	6	8	5	3	4	8
825:	6	9	3	7	11	4	5	9
833:	4	9	7	13	8	7	8	12
841:	8	3	3	5	6	3	6	4
849:	4	5	4	8	6	3	7	7
857:	3	8	7	9	12	12	8	8
865:	6	4	3	3	3	4	8	5
873:	3	1	4	4	6	4	9	1
881:	2	6	3	4	2	5	8	2
889:	9	5	3	7	5	7	5	3
897:	8	3	6	10	5	5	3	10
905:	6	8	4	5	5	12	61	54
913:	14	8	5	5	2	4	5	3
921:	2	6	5	3	5	5	5	7
929:	2	3	7	4	5	12	11	6
937:	6	9	3	6	4	5	5	6
945:	4	2	7	5	6	7	3	3
953:	9	5	5	6	5	4	9	8
961:	4	5	10	12	18	8	8	19
969:	41	26	7	6	7	8	5	5
977:	1	12	3	5	5	4	2	4
985:	6	2	7	6	4	4	9	6
993:	4	4	3	8	2	3	3	2
1001:	5	8	7	7	6	3	3	3
1009:	3	7	5	3	5	5	5	5
1017:	3	6	4	5	5	7	6	6
1025:	5	5	4	2	4	7	4	8
1033:	4	5	5	5	3	7	4	6
1041:	1	3	5	5	4	8	6	2
1049:	7	2	4	5	7	2	5	6
1057:	6	0	4	6	4	5	8	3
1065:	5	9	5	6	5	3	0	7
1073:	0	3	3	2	5	8	1	5
1081:	6	3	7	0	6	2	6	3
1089:	9	3	4	2	4	5	8	4
1097:	4	2	6	4	9	3	7	3
1105:	5	1	1	3	5	9	5	10
1113:	3	2	7	6	3	5	11	23
1121:	35	6	3	7	5	4	7	2
1129:	5	8	4	1	8	5	3	6
1137:	2	2	4	1	8	3	3	3
1145:	9	4	6	5	7	3	5	7
1153:	4	7	7	10	9	7	7	6
1161:	5	3	1	4	4	10	4	2
1169:	5	5	4	8	4	7	2	2
1177:	7	6	5	4	7	9	4	3
1185:	4	4	3	5	2	4	5	6
1193:	6	3	5	7	3	4	8	5
1201:	3	3	4	3	4	3	9	5
1209:	6	4	7	9	6	4	4	7
1217:	8	2	11	2	6	0	3	4
1225:	2	6	7	3	5	13	5	6

1233:	5	7	8	3	5	16	14	3

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Channel								
1241:	4	3	4	5	10	5	4	3
1249:	7	10	5	4	2	0	5	1
1257:	4	2	8	7	5	1	3	3
1265:	1	1	5	4	8	4	3	4
1273:	1	2	5	4	2	2	2	10
1281:	6	7	2	5	2	6	4	6
1289:	4	4	4	4	10	5	1	3
1297:	2	5	3	6	4	6	4	5
1305:	2	6	6	2	3	4	0	2
1313:	4	5	2	5	2	1	2	2
1321:	3	3	2	3	3	2	1	4
1329:	3	2	5	3	4	2	1	2
1337:	2	1	2	3	0	3	1	4
1345:	4	3	3	2	2	3	3	3
1353:	6	0	2	1	1	2	5	3
1361:	1	1	2	3	3	7	1	2
1369:	3	2	3	1	1	2	2	1
1377:	10	5	7	0	2	3	2	3
1385:	2	4	5	3	4	3	1	0
1393:	2	2	1	3	1	1	1	3
1401:	3	2	3	2	2	1	2	9
1409:	3	0	5	1	0	2	1	4
1417:	4	0	0	3	3	2	0	2
1425:	2	2	1	0	2	2	1	0
1433:	1	1	3	0	1	1	1	3
1441:	1	1	1	4	5	1	1	1
1449:	0	5	2	4	1	1	3	1
1457:	2	3	30	120	167	67	11	8
1465:	2	2	1	3	3	3	0	0
1473:	2	2	0	3	0	1	1	1
1481:	1	0	2	1	1	2	3	0
1489:	0	3	4	2	3	2	5	1
1497:	2	2	3	3	1	2	1	2
1505:	3	0	1	2	5	3	1	1
1513:	1	1	0	4	1	1	0	0
1521:	2	3	1	1	0	2	0	1
1529:	0	4	0	3	3	2	0	2
1537:	0	2	2	1	2	1	2	3
1545:	1	1	0	2	1	1	2	2
1553:	1	2	3	0	3	1	0	0
1561:	4	0	3	3	1	0	0	0
1569:	2	2	0	2	1	0	2	0
1577:	0	1	3	1	3	1	2	1
1585:	0	2	9	5	3	1	1	2
1593:	2	2	1	1	2	1	3	0
1601:	1	2	0	0	0	1	1	0
1609:	1	1	2	1	3	0	1	0
1617:	3	1	2	2	2	1	5	4
1625:	1	1	0	2	0	3	3	1
1633:	1	0	2	1	2	1	6	0
1641:	1	1	1	1	1	3	2	0
1649:	2	1	1	2	0	1	0	1
1657:	0	1	0	4	3	1	1	0

1665:	0	2	1	1	3	1	0	0

Sample Title: FEEBRISID-12 074-075

Channel								
1673:	1	0	3	0	0	0	3	2
1681:	0	1	0	1	2	1	2	1
1689:	0	2	1	0	5	2	2	2
1697:	3	1	0	0	0	1	2	3
1705:	0	0	2	0	1	0	3	0
1713:	1	2	2	1	1	2	0	1
1721:	2	1	2	0	2	3	0	2
1729:	7	5	1	1	1	1	0	2
1737:	2	3	1	2	1	1	0	1
1745:	1	0	1	3	2	1	1	0
1753:	1	0	0	0	0	0	0	2
1761:	2	5	11	23	18	9	2	2
1769:	1	3	0	1	1	0	3	0
1777:	0	1	2	2	1	1	0	1
1785:	0	1	0	1	2	0	1	0
1793:	1	1	0	1	0	0	0	0
1801:	1	0	1	0	0	1	1	2
1809:	0	2	0	0	1	0	1	2
1817:	3	2	0	1	0	0	3	1
1825:	2	1	1	0	0	0	0	1
1833:	1	0	2	2	2	2	1	2
1841:	1	0	1	0	1	2	6	2
1849:	1	0	0	2	0	1	1	2
1857:	2	0	0	0	1	0	2	1
1865:	2	0	0	0	0	0	0	0
1873:	1	2	1	0	2	0	1	0
1881:	3	0	3	0	1	0	0	0
1889:	1	0	0	2	0	0	0	2
1897:	1	1	0	1	2	0	0	2
1905:	0	1	1	1	1	2	2	0
1913:	2	0	3	2	1	1	1	0
1921:	1	0	1	0	0	0	0	1
1929:	1	0	2	0	0	3	0	1
1937:	1	1	0	1	1	0	2	0
1945:	0	0	0	2	0	1	0	1
1953:	0	1	3	2	1	0	3	0
1961:	2	0	1	1	2	1	0	0
1969:	1	1	2	1	0	1	2	0
1977:	0	0	0	1	3	1	1	0
1985:	0	1	1	1	2	1	2	0
1993:	0	1	3	0	1	1	0	0
2001:	1	0	0	0	0	2	1	0
2009:	0	1	3	0	0	1	2	1
2017:	0	1	1	0	2	0	0	2
2025:	1	1	0	0	0	1	0	0
2033:	1	1	0	0	3	1	0	0
2041:	0	0	0	0	0	0	2	1
2049:	0	0	4	1	0	1	0	2
2057:	0	1	0	0	1	2	0	0
2065:	0	1	0	0	1	0	0	0
2073:	0	1	2	1	0	1	1	0
2081:	1	0	0	0	1	1	0	0
2089:	1	2	0	2	1	4	1	1

2097:	1	1	1	1	1	2	4	6

Sample Title: FEEBRISID-12 074-075

Channel								
2105:	3	1	1	2	0	3	2	0
2113:	0	1	2	2	1	1	1	0
2121:	0	0	0	1	0	0	0	0
2129:	1	1	1	0	0	0	0	0
2137:	2	0	1	0	0	0	0	1
2145:	1	0	0	0	0	0	0	2
2153:	0	0	2	0	1	1	1	0
2161:	0	1	0	2	1	0	2	0
2169:	0	0	0	3	0	0	0	1
2177:	1	2	1	0	1	1	3	0
2185:	0	0	2	2	0	2	1	0
2193:	0	0	1	1	0	1	0	0
2201:	1	0	7	7	1	3	0	0
2209:	0	0	1	0	0	2	0	0
2217:	1	2	1	2	1	0	2	0
2225:	0	1	2	0	0	2	2	1
2233:	0	0	0	1	0	0	0	2
2241:	1	0	0	0	0	0	1	1
2249:	0	0	0	0	0	0	1	1
2257:	1	1	3	1	0	2	0	0
2265:	1	2	2	1	1	0	0	0
2273:	0	1	0	0	1	1	1	0
2281:	0	1	1	1	1	0	0	1
2289:	0	2	0	2	1	1	2	2
2297:	2	0	2	0	0	0	0	1
2305:	0	0	0	0	0	2	2	1
2313:	1	1	0	2	0	0	0	2
2321:	1	1	1	1	2	1	0	0
2329:	0	1	1	0	0	1	1	1
2337:	1	2	3	2	0	0	1	0
2345:	1	1	1	0	0	0	2	0
2353:	0	1	0	1	1	1	4	0
2361:	1	2	0	2	2	2	1	0
2369:	4	0	2	0	0	1	3	0
2377:	0	1	0	1	1	0	0	0
2385:	0	1	1	1	0	1	0	1
2393:	1	2	0	0	0	0	1	0
2401:	0	1	2	0	0	0	1	0
2409:	3	0	0	1	0	1	1	1
2417:	0	3	0	1	0	0	0	0
2425:	0	0	0	1	3	0	1	1
2433:	0	1	0	0	0	0	1	0
2441:	0	0	1	2	1	3	2	2
2449:	0	0	0	0	1	1	0	1
2457:	0	0	1	1	0	1	0	1
2465:	1	0	0	0	0	0	0	0
2473:	1	0	0	0	0	0	0	0
2481:	1	0	0	0	1	1	0	0
2489:	0	0	1	1	0	2	0	1
2497:	0	0	0	0	0	1	0	2
2505:	0	1	0	0	2	0	0	1
2513:	0	1	0	1	0	1	0	0
2521:	0	0	0	0	0	0	2	0

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-12 074-075

Channel								
2537:	1	1	0	0	1	0	0	0
2545:	0	0	0	1	0	0	0	0
2553:	0	0	0	0	1	0	0	0
2561:	0	0	1	0	0	0	0	1
2569:	1	0	0	0	2	0	0	0
2577:	0	0	0	1	0	0	0	0
2585:	2	0	1	0	0	0	1	0
2593:	1	0	0	0	0	0	0	3
2601:	0	0	0	0	0	0	0	2
2609:	0	0	2	6	25	25	16	4
2617:	1	2	0	0	0	0	0	0
2625:	1	1	0	0	0	0	1	0
2633:	0	0	0	0	0	0	1	0
2641:	1	1	0	0	1	0	0	0
2649:	0	1	1	0	0	1	0	2
2657:	0	1	1	1	1	0	0	0
2665:	0	0	0	0	1	1	0	0
2673:	0	0	0	1	1	0	0	0
2681:	0	0	0	0	0	1	0	0
2689:	0	0	0	2	0	0	1	0
2697:	0	0	0	0	2	0	0	0
2705:	0	0	0	0	0	0	1	0
2713:	0	0	0	1	0	0	1	0
2721:	0	0	2	0	0	1	0	0
2729:	0	0	1	0	0	1	0	1
2737:	1	0	0	1	1	0	0	1
2745:	0	0	0	0	1	0	0	0
2753:	0	1	0	0	0	0	0	0
2761:	2	0	0	1	1	0	0	0
2769:	0	0	0	1	0	1	1	0
2777:	0	1	0	0	0	0	0	0
2785:	2	0	1	0	0	1	0	1
2793:	0	1	0	0	1	0	0	0
2801:	0	1	1	0	0	0	0	0
2809:	0	0	0	1	0	1	0	0
2817:	0	1	1	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	1	1
2849:	1	0	0	0	0	0	0	1
2857:	0	0	1	1	0	1	0	0
2865:	0	0	0	0	0	0	1	0
2873:	1	0	0	0	0	1	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	1
2905:	0	0	1	0	0	0	1	1
2913:	1	0	0	0	0	0	0	0
2921:	0	0	1	0	0	0	0	0
2929:	0	0	1	0	0	0	0	0
2937:	1	0	1	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	1	0	0	0	0	0	0	0

2961:	0	0	0	0	1	0	0	1

Sample Title: FEEBRISID-12 074-075

Channel								
2969:	0	0	1	1	0	0	0	1
2977:	0	0	0	1	1	0	0	0
2985:	0	0	0	0	0	0	1	0
2993:	0	0	1	0	1	1	0	0
3001:	0	0	0	1	0	0	1	0
3009:	0	0	0	0	1	0	0	0
3017:	0	0	0	0	0	1	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	1	0	0	0	1	0
3041:	0	0	2	0	0	1	0	0
3049:	0	0	1	1	0	0	0	1
3057:	0	0	0	0	0	0	1	0
3065:	0	0	0	0	0	1	0	1
3073:	0	0	1	0	0	1	0	0
3081:	1	0	0	0	0	1	1	2
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	2	1	0	0	0	0	0	0
3113:	0	0	1	0	0	1	1	0
3121:	0	0	1	0	0	0	0	0
3129:	0	0	0	1	0	0	0	1
3137:	1	0	0	0	0	0	0	0
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	1	0	0	0	0
3161:	0	0	0	1	0	0	0	0
3169:	0	1	0	0	0	0	1	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	1	0	0	0	0
3193:	0	0	0	1	0	0	0	0
3201:	0	1	0	0	0	1	0	1
3209:	0	0	1	0	0	0	0	0
3217:	1	1	0	1	0	0	0	0
3225:	0	0	0	0	1	0	1	0
3233:	0	0	1	1	1	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	2	0	0	0	0	1	0	0
3257:	0	1	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	0	0	0	0	0	0	0	0
3281:	1	0	0	0	0	0	0	0
3289:	0	0	0	2	1	0	1	1
3297:	0	0	1	1	0	0	0	1
3305:	0	0	0	0	0	1	0	0
3313:	0	0	1	1	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	1	0	0
3337:	0	0	0	0	1	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	1	0
3369:	0	0	0	0	0	0	0	0
3377:	0	1	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	1

3393:	0	0	0	0	0	0	0	1

Sample Title: FEEBRISID-12 074-075

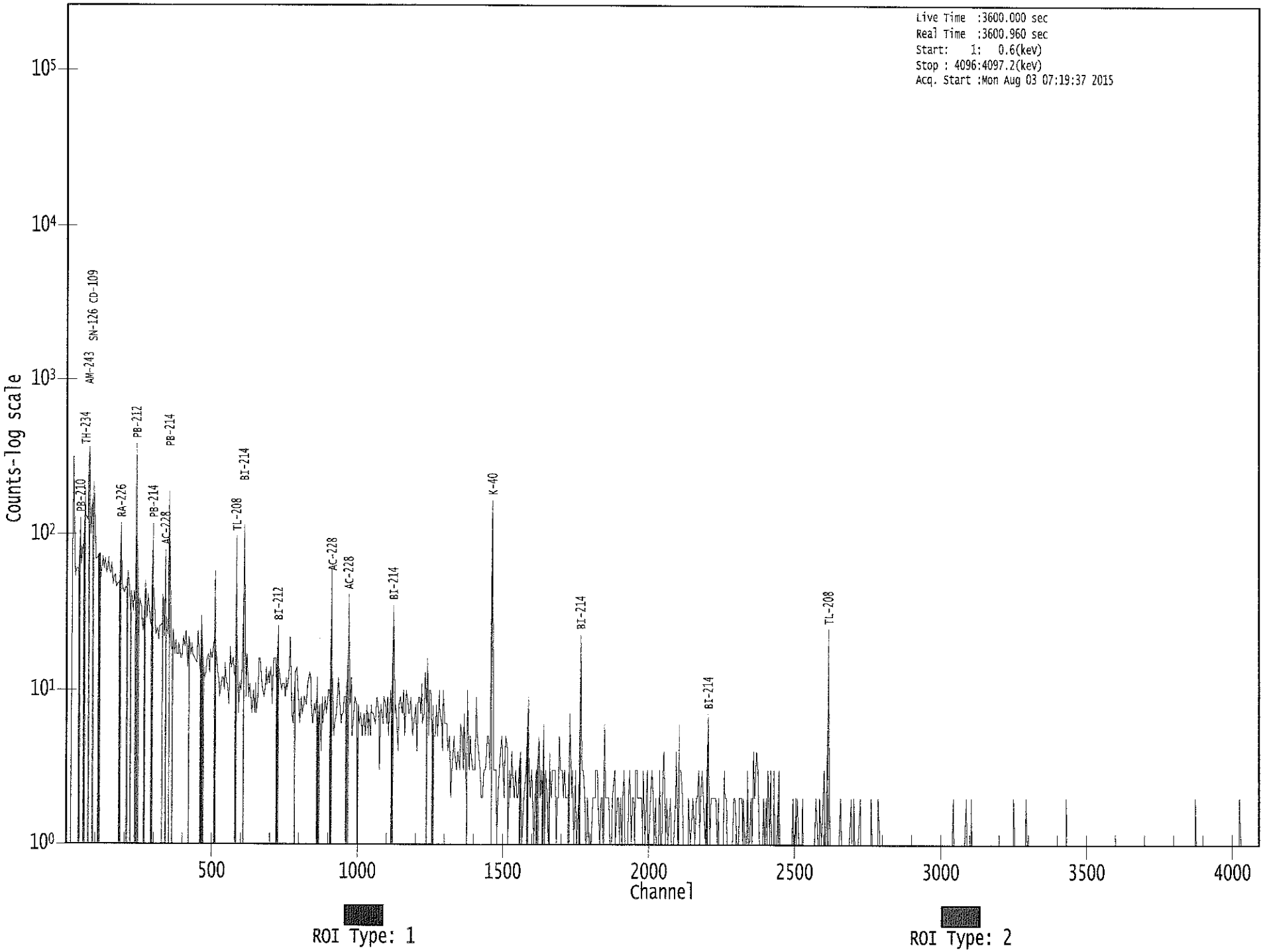
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	1	0	0	1	0	0	0
3417:	0	1	0	0	1	0	0	0
3425:	0	0	0	0	0	2	1	0
3433:	0	0	0	0	1	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	1
3465:	1	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	1
3481:	0	1	0	0	0	0	1	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	0	0	1	0	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	1	0	0	0	0	0
3537:	0	0	1	0	0	0	0	0
3545:	0	0	1	0	0	0	0	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	0	0	0	1	0	0
3569:	0	0	0	1	0	0	0	1
3577:	0	0	0	0	1	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	1	0	0
3609:	0	0	0	0	0	0	1	0
3617:	0	0	1	1	0	1	0	0
3625:	0	1	1	0	1	0	0	0
3633:	0	0	0	0	0	1	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	1	0	0	0
3657:	0	0	1	0	0	0	0	0
3665:	0	0	0	0	0	1	0	0
3673:	1	0	0	0	0	0	1	0
3681:	0	0	0	0	1	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	1	0
3713:	0	0	0	0	0	0	0	0
3721:	0	1	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	1	0	1	0	0	0	0	1
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	1	1
3769:	0	0	0	0	0	1	1	0
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	1	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	1	1	0	1	0	0	1

3825:	0	0	1	0	0	0	0	0

Sample Title: FEEBRISID-12 074-075

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	1	0	0
3857:	0	0	0	1	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	2	0	0	0	0	0	0
3881:	0	0	1	0	1	0	0	0
3889:	0	1	0	0	0	0	1	0
3897:	1	0	0	1	1	0	0	0
3905:	0	0	0	0	1	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	1	1	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	1	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	1	1	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	1	0	0	0	0	0	0	0
3993:	0	0	0	0	0	1	0	0
4001:	0	1	0	0	0	0	0	0
4009:	0	0	1	0	0	0	0	0
4017:	0	0	0	1	0	0	0	0
4025:	2	0	0	0	0	1	0	0
4033:	1	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	1	0	0	0	1	0	0	0
4065:	0	0	1	1	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025454.CNF



Apex-Gamma

Analysis Report for 1507047-09
FEEBRISID-15 077-080

8/3

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-09
Sample Description	: FEEBRISID-15 077-080
Sample Type	: SOIL
Sample Size	: 4.086E+02 grams
Facility	: Countroom
Sample Taken On	: 7/2/2015 7:54:10AM
Acquisition Started	: 8/3/2015 7:19:44AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.8 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 6 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25455

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

Analysis Report for 1507047-09

FEEBRISID-15 077-080

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 8:20:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	13.80	13.93	0.0000	0.00
2	76.11	76.20	0.0000	0.00
3	90.39	90.47	0.0000	0.00
4	186.01	186.04	0.0000	0.00
5	210.32	210.33	0.0000	0.00
6	238.89	238.88	0.0000	0.00
7	242.13	242.13	0.0000	0.00
8	269.49	269.47	0.0000	0.00
9	295.36	295.33	0.0000	0.00
10	339.10	339.05	0.0000	0.00
11	351.97	351.91	0.0000	0.00
12	462.18	462.06	0.0000	0.00
13	487.86	487.73	0.0000	0.00
14	510.77	510.62	0.0000	0.00
15	583.51	583.33	0.0000	0.00
16	609.30	609.11	0.0000	0.00
17	663.06	662.85	0.0000	0.00
18	727.53	727.29	0.0000	0.00
19	734.22	733.97	0.0000	0.00
20	794.95	794.68	0.0000	0.00
21	861.06	860.75	0.0000	0.00
22	911.46	911.13	0.0000	0.00
23	935.29	934.95	0.0000	0.00
24	969.46	969.11	0.0000	0.00
25	1171.84	1171.41	0.0000	0.00
26	1237.91	1237.46	0.0000	0.00
27	1275.70	1275.24	0.0000	0.00
28	1281.95	1281.49	0.0000	0.00
29	1316.14	1315.66	0.0000	0.00
30	1365.64	1365.14	0.0000	0.00
31	1401.26	1400.76	0.0000	0.00
32	1415.65	1415.14	0.0000	0.00
33	1461.25	1460.73	0.0000	0.00
34	1509.80	1509.26	0.0000	0.00
35	1581.56	1581.00	0.0000	0.00
36	1594.29	1593.73	0.0000	0.00
37	1621.89	1621.32	0.0000	0.00
38	1729.35	1728.75	0.0000	0.00
39	1765.16	1764.56	0.0000	0.00
40	1994.76	1994.11	0.0000	0.00
41	2188.34	2187.65	0.0000	0.00
42	2615.17	2614.42	0.0000	0.00

Analysis Report for 1507047-09

FEEBRISID-15 077-080

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-09

FEEBRISID-15 077-080

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:20:00AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	13.80	12	17	13.93	1.59E+03	157.56	2.97E+03	1.14
	2	76.11	72	79	76.20	4.82E+02	85.46	8.97E+02	3.93
M	3	90.39	89	97	90.47	3.81E+01	28.00	2.56E+02	1.48
	4	186.01	183	189	186.04	9.20E+01	48.47	3.60E+02	1.42
	5	210.32	206	213	210.33	5.98E+01	49.96	3.68E+02	3.72
M	6	238.89	236	246	238.88	3.08E+02	44.68	1.70E+02	1.41
m	7	242.13	236	246	242.13	7.61E+01	33.59	1.55E+02	1.42
	8	269.49	265	274	269.47	5.73E+01	51.15	3.43E+02	2.73
	9	295.36	293	297	295.33	1.49E+02	36.05	1.57E+02	1.93
	10	339.10	336	343	339.05	7.46E+01	36.99	1.75E+02	1.80
	11	351.97	348	356	351.91	2.25E+02	47.96	2.15E+02	1.50
	12	462.18	458	466	462.06	2.96E+01	35.81	1.77E+02	1.97
	13	487.86	486	491	487.73	1.99E+01	22.63	9.02E+01	1.20
	14	510.77	505	515	510.62	1.24E+02	41.15	1.59E+02	2.83
	15	583.51	578	587	583.33	1.15E+02	40.16	1.64E+02	1.93
	16	609.30	603	614	609.11	1.76E+02	46.82	1.86E+02	1.89
	17	663.06	657	669	662.85	4.29E+01	34.07	1.14E+02	3.60
	18	727.53	724	730	727.29	2.74E+01	21.74	6.52E+01	1.55
	19	734.22	731	737	733.97	1.71E+01	18.32	4.78E+01	2.03
	20	794.95	792	798	794.68	1.70E+01	20.41	6.41E+01	1.12
	21	861.06	858	864	860.75	2.70E+01	20.89	6.01E+01	1.18
	22	911.46	907	915	911.13	3.46E+01	29.23	1.05E+02	1.77
	23	935.29	932	938	934.95	1.47E+01	14.21	2.27E+01	2.54
	24	969.46	966	973	969.11	3.43E+01	25.92	7.53E+01	2.24
	25	1171.84	1168	1176	1171.41	1.85E+01	16.79	3.30E+01	4.51
	26	1237.91	1234	1240	1237.46	1.75E+01	18.43	4.90E+01	1.69
	27	1275.70	1271	1278	1275.24	1.51E+01	14.14	2.18E+01	2.73
	28	1281.95	1279	1285	1281.49	1.24E+01	10.43	1.12E+01	3.61
	29	1316.14	1312	1318	1315.66	1.07E+01	13.33	2.45E+01	3.58
	30	1365.64	1363	1367	1365.14	7.00E+00	8.54	1.00E+01	1.10
	31	1401.26	1396	1404	1400.76	1.35E+01	10.61	9.00E+00	5.56
	32	1415.65	1412	1419	1415.14	8.54E+00	10.20	1.09E+01	2.03
	33	1461.25	1455	1466	1460.73	3.42E+02	39.50	2.40E+01	2.11
	34	1509.80	1503	1514	1509.26	1.51E+01	10.39	5.89E+00	4.75
	35	1581.56	1576	1584	1581.00	7.50E+00	9.41	9.00E+00	2.99
	36	1594.29	1591	1598	1593.73	1.07E+01	8.00	2.58E+00	3.30
	37	1621.89	1616	1626	1621.32	2.04E+01	11.06	5.13E+00	6.61
	38	1729.35	1725	1733	1728.75	1.20E+01	6.93	0.00E+00	2.12
	39	1765.16	1759	1768	1764.56	3.30E+01	14.21	1.00E+01	2.63
	40	1994.76	1990	1996	1994.11	5.57E+00	6.34	2.86E+00	2.67

Analysis Report for 1507047-09

FEEBRISID-15 077-080

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	2188.34	2184 -	2191	2187.65	7.90E+00	7.48	4.20E+00	1.36
42	2615.17	2609 -	2620	2614.42	4.73E+01	15.36	5.32E+00	2.95

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:20:00AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	13.80	12 -	17	1.59E+03	157.56	2.97E+03	1.12E+02
	2	76.11	72 -	79	4.82E+02	85.46	8.97E+02	6.03E+01
M	3	90.39	89 -	97	3.81E+01	28.00	2.56E+02	2.63E+01
	4	186.01	183 -	189	9.20E+01	48.47	3.60E+02	3.66E+01
	5	210.32	206 -	213	5.98E+01	49.96	3.68E+02	3.90E+01
M	6	238.89	236 -	246	3.08E+02	44.68	1.70E+02	2.14E+01
m	7	242.13	236 -	246	7.61E+01	33.59	1.55E+02	2.05E+01
	8	269.49	265 -	274	5.73E+01	51.15	3.43E+02	4.02E+01
	9	295.36	293 -	297	1.49E+02	36.05	1.57E+02	2.18E+01
	10	339.10	336 -	343	7.46E+01	36.99	1.75E+02	2.69E+01
	11	351.97	348 -	356	2.25E+02	47.96	2.15E+02	3.08E+01
	12	462.18	458 -	466	2.96E+01	35.81	1.77E+02	2.80E+01
	13	487.86	486 -	491	1.99E+01	22.63	9.02E+01	1.71E+01
	14	510.77	505 -	515	1.24E+02	41.15	1.59E+02	2.84E+01
	15	583.51	578 -	587	1.15E+02	40.16	1.64E+02	2.79E+01
	16	609.30	603 -	614	1.76E+02	46.82	1.86E+02	3.17E+01
	17	663.06	657 -	669	4.29E+01	34.07	1.14E+02	2.58E+01
	18	727.53	724 -	730	2.74E+01	21.74	6.52E+01	1.57E+01
	19	734.22	731 -	737	1.71E+01	18.32	4.78E+01	1.34E+01
	20	794.95	792 -	798	1.70E+01	20.41	6.41E+01	1.53E+01
	21	861.06	858 -	864	2.70E+01	20.89	6.01E+01	1.49E+01
	22	911.46	907 -	915	3.46E+01	29.23	1.05E+02	2.65E+01
	23	935.29	932 -	938	1.47E+01	14.21	2.27E+01	9.84E+00
	24	969.46	966 -	973	3.43E+01	25.92	7.53E+01	1.90E+01
	25	1171.84	1168 -	1176	1.85E+01	16.79	3.30E+01	1.18E+01

Analysis Report for 1507047-09

FEEBRISID-15 077-080

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
26	1237.91	1234 -	1240	1.75E+01	18.43	4.90E+01	1.35E+01
27	1275.70	1271 -	1278	1.51E+01	14.14	2.18E+01	9.72E+00
28	1281.95	1279 -	1285	1.24E+01	10.43	1.12E+01	6.32E+00
29	1316.14	1312 -	1318	1.07E+01	13.33	2.45E+01	9.54E+00
30	1365.64	1363 -	1367	7.00E+00	8.54	1.00E+01	5.51E+00
31	1401.26	1396 -	1404	1.35E+01	10.61	9.00E+00	6.29E+00
32	1415.65	1412 -	1419	8.54E+00	10.20	1.09E+01	6.87E+00
33	1461.25	1455 -	1466	3.42E+02	39.50	2.40E+01	1.14E+01
34	1509.80	1503 -	1514	1.51E+01	10.39	5.89E+00	5.68E+00
35	1581.56	1576 -	1584	7.50E+00	9.41	9.00E+00	6.29E+00
36	1594.29	1591 -	1598	1.07E+01	8.00	2.58E+00	3.78E+00
37	1621.89	1616 -	1626	2.04E+01	11.06	5.13E+00	5.23E+00
38	1729.35	1725 -	1733	1.20E+01	6.93	0.00E+00	0.00E+00
39	1765.16	1759 -	1768	3.30E+01	14.21	1.00E+01	6.88E+00
40	1994.76	1990 -	1996	5.57E+00	6.34	2.86E+00	3.48E+00
41	2188.34	2184 -	2191	7.90E+00	7.48	4.20E+00	4.06E+00
42	2615.17	2609 -	2620	4.73E+01	15.36	5.32E+00	5.61E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 8:20:00AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	13.80	12 -	17	13.93	1.59E+03	157.56	2.97E+03	.....
	2	76.11	72 -	79	76.20	4.82E+02	85.46	8.97E+02	.....
M	3	90.39	89 -	97	90.47	3.81E+01	28.00	2.56E+02	ND-147
	4	186.01	183 -	189	186.04	9.20E+01	48.47	3.60E+02	RA-226
	5	210.32	206 -	213	210.33	5.98E+01	49.96	3.68E+02	CM-243
M	6	238.89	236 -	246	238.88	3.08E+02	44.68	1.70E+02	PB-212
m	7	242.13	236 -	246	242.13	7.61E+01	33.59	1.55E+02	.....
	8	269.49	265 -	274	269.47	5.73E+01	51.15	3.43E+02	.....

Analysis Report for 1507047-09

FEEBRISID-15 077-080

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
9	295.36	293 -	297	295.33	1.49E+02	36.05	1.57E+02	PB-214
10	339.10	336 -	343	339.05	7.46E+01	36.99	1.75E+02	AC-228
11	351.97	348 -	356	351.91	2.25E+02	47.96	2.15E+02	PB-214
12	462.18	458 -	466	462.06	2.96E+01	35.81	1.77E+02	.....
13	487.86	486 -	491	487.73	1.99E+01	22.63	9.02E+01	LA-140
14	510.77	505 -	515	510.62	1.24E+02	41.15	1.59E+02	.....
15	583.51	578 -	587	583.33	1.15E+02	40.16	1.64E+02	TL-208
16	609.30	603 -	614	609.11	1.76E+02	46.82	1.86E+02	BI-214
17	663.06	657 -	669	662.85	4.29E+01	34.07	1.14E+02	.....
18	727.53	724 -	730	727.29	2.74E+01	21.74	6.52E+01	BI-212
19	734.22	731 -	737	733.97	1.71E+01	18.32	4.78E+01	PA-234
20	794.95	792 -	798	794.68	1.70E+01	20.41	6.41E+01	CS-134
21	861.06	858 -	864	860.75	2.70E+01	20.89	6.01E+01	TL-208
22	911.46	907 -	915	911.13	3.46E+01	29.23	1.05E+02	AC-228 LU-172
23	935.29	932 -	938	934.95	1.47E+01	14.21	2.27E+01	.....
24	969.46	966 -	973	969.11	3.43E+01	25.92	7.53E+01	AC-228
25	1171.84	1168 -	1176	1171.41	1.85E+01	16.79	3.30E+01	.....
26	1237.91	1234 -	1240	1237.46	1.75E+01	18.43	4.90E+01	CO-56
27	1275.70	1271 -	1278	1275.24	1.51E+01	14.14	2.18E+01	.....
28	1281.95	1279 -	1285	1281.49	1.24E+01	10.43	1.12E+01	.....
29	1316.14	1312 -	1318	1315.66	1.07E+01	13.33	2.45E+01	.....
30	1365.64	1363 -	1367	1365.14	7.00E+00	8.54	1.00E+01	.....
31	1401.26	1396 -	1404	1400.76	1.35E+01	10.61	9.00E+00	.....
32	1415.65	1412 -	1419	1415.14	8.54E+00	10.20	1.09E+01	.....
33	1461.25	1455 -	1466	1460.73	3.42E+02	39.50	2.40E+01	K-40
34	1509.80	1503 -	1514	1509.26	1.51E+01	10.39	5.89E+00	.....
35	1581.56	1576 -	1584	1581.00	7.50E+00	9.41	9.00E+00	.....
36	1594.29	1591 -	1598	1593.73	1.07E+01	8.00	2.58E+00	.....
37	1621.89	1616 -	1626	1621.32	2.04E+01	11.06	5.13E+00	.....
38	1729.35	1725 -	1733	1728.75	1.20E+01	6.93	0.00E+00	.....
39	1765.16	1759 -	1768	1764.56	3.30E+01	14.21	1.00E+01	BI-214
40	1994.76	1990 -	1996	1994.11	5.57E+00	6.34	2.86E+00	.....
41	2188.34	2184 -	2191	2187.65	7.90E+00	7.48	4.20E+00	.....
42	2615.17	2609 -	2620	2614.42	4.73E+01	15.36	5.32E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 8:20:00AM

Analysis Report for 1507047-09

FEEBRISID-15 077-080

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	13.80	1.59E+03	157.56	8.59E-08	1.68E-03
	2	76.11	4.82E+02	85.46	2.74E-02	3.32E-03
M	3	90.39	3.81E+01	28.00	2.85E-02	4.40E-03
	4	186.01	9.20E+01	48.47	2.11E-02	1.65E-03
	5	210.32	5.98E+01	49.96	1.95E-02	1.63E-03
M	6	238.89	3.08E+02	44.68	1.79E-02	1.60E-03
m	7	242.13	7.61E+01	33.59	1.77E-02	1.60E-03
	8	269.49	5.73E+01	51.15	1.65E-02	1.57E-03
	9	295.36	1.49E+02	36.05	1.55E-02	1.48E-03
	10	339.10	7.46E+01	36.99	1.41E-02	1.27E-03
	11	351.97	2.25E+02	47.96	1.37E-02	1.21E-03
	12	462.18	2.96E+01	35.81	1.14E-02	9.48E-04
	13	487.86	1.99E+01	22.63	1.09E-02	9.22E-04
	14	510.77	1.24E+02	41.15	1.06E-02	8.99E-04
	15	583.51	1.15E+02	40.16	9.58E-03	8.25E-04
	16	609.30	1.76E+02	46.82	9.27E-03	7.98E-04
	17	663.06	4.29E+01	34.07	8.69E-03	7.44E-04
	18	727.53	2.74E+01	21.74	8.08E-03	7.03E-04
	19	734.22	1.71E+01	18.32	8.03E-03	6.99E-04
	20	794.95	1.70E+01	20.41	7.53E-03	6.60E-04
	21	861.06	2.70E+01	20.89	7.06E-03	6.17E-04
	22	911.46	3.46E+01	29.23	6.74E-03	5.86E-04
	23	935.29	1.47E+01	14.21	6.60E-03	5.74E-04
	24	969.46	3.43E+01	25.92	6.41E-03	5.57E-04
	25	1171.84	1.85E+01	16.79	5.50E-03	4.53E-04
	26	1237.91	1.75E+01	18.43	5.27E-03	4.83E-04
	27	1275.70	1.51E+01	14.14	5.15E-03	5.00E-04
	28	1281.95	1.24E+01	10.43	5.13E-03	5.03E-04
	29	1316.14	1.07E+01	13.33	5.03E-03	5.19E-04
	30	1365.64	7.00E+00	8.54	4.90E-03	5.13E-04
	31	1401.26	1.35E+01	10.61	4.81E-03	4.98E-04
	32	1415.65	8.54E+00	10.20	4.77E-03	4.92E-04
	33	1461.25	3.42E+02	39.50	4.67E-03	4.73E-04
	34	1509.80	1.51E+01	10.39	4.57E-03	4.53E-04
	35	1581.56	7.50E+00	9.41	4.44E-03	4.23E-04
	36	1594.29	1.07E+01	8.00	4.42E-03	4.18E-04
	37	1621.89	2.04E+01	11.06	4.38E-03	4.07E-04
	38	1729.35	1.20E+01	6.93	4.23E-03	3.62E-04
	39	1765.16	3.30E+01	14.21	4.18E-03	3.47E-04
	40	1994.76	5.57E+00	6.34	4.00E-03	3.18E-04
	41	2188.34	7.90E+00	7.48	3.93E-03	3.18E-04
	42	2615.17	4.73E+01	15.36	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

Analysis Report for 1507047-09

FEEBRISID-15 077-080

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 8:20:00AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	13.80	1.59E+03	157.56	1.24E+03	4.65E+01	3.54E+02	1.64E+02
	2	76.11	4.82E+02	85.46			4.82E+02	8.55E+01
M	3	90.39	3.81E+01	28.00			3.81E+01	2.80E+01
	4	186.01	9.20E+01	48.47	4.79E+01	7.81E+00	4.41E+01	4.91E+01
	5	210.32	5.98E+01	49.96			5.98E+01	5.00E+01
M	6	238.89	3.08E+02	44.68	2.21E+01	3.31E+00	2.86E+02	4.48E+01
m	7	242.13	7.61E+01	33.59	7.15E+00	2.42E+00	6.89E+01	3.37E+01
	8	269.49	5.73E+01	51.15			5.73E+01	5.11E+01
	9	295.36	1.49E+02	36.05	1.30E+01	5.93E+00	1.36E+02	3.65E+01
	10	339.10	7.46E+01	36.99			7.46E+01	3.70E+01
	11	351.97	2.25E+02	47.96	1.67E+01	5.59E+00	2.08E+02	4.83E+01
	12	462.18	2.96E+01	35.81			2.96E+01	3.58E+01
	13	487.86	1.99E+01	22.63			1.99E+01	2.26E+01
	14	510.77	1.24E+02	41.15	9.00E+01	5.68E+00	3.44E+01	4.15E+01
	15	583.51	1.15E+02	40.16	7.99E+00	3.88E+00	1.07E+02	4.03E+01
	16	609.30	1.76E+02	46.82	1.77E+01	8.73E+00	1.58E+02	4.76E+01
	17	663.06	4.29E+01	34.07			4.29E+01	3.41E+01
	18	727.53	2.74E+01	21.74			2.74E+01	2.17E+01
	19	734.22	1.71E+01	18.32			1.71E+01	1.83E+01
	20	794.95	1.70E+01	20.41			1.70E+01	2.04E+01
	21	861.06	2.70E+01	20.89	2.87E+00	3.03E+00	2.41E+01	2.11E+01
	22	911.46	3.46E+01	29.23	3.66E+00	2.67E+00	3.10E+01	2.93E+01
	23	935.29	1.47E+01	14.21			1.47E+01	1.42E+01
	24	969.46	3.43E+01	25.92	2.18E+00	2.58E+00	3.22E+01	2.61E+01
	25	1171.84	1.85E+01	16.79			1.85E+01	1.68E+01
	26	1237.91	1.75E+01	18.43	1.40E+00	2.38E+00	1.61E+01	1.86E+01
	27	1275.70	1.51E+01	14.14			1.51E+01	1.41E+01
	28	1281.95	1.24E+01	10.43			1.24E+01	1.04E+01
	29	1316.14	1.07E+01	13.33			1.07E+01	1.33E+01
	30	1365.64	7.00E+00	8.54			7.00E+00	8.54E+00
	31	1401.26	1.35E+01	10.61			1.35E+01	1.06E+01
	32	1415.65	8.54E+00	10.20			8.54E+00	1.02E+01
	33	1461.25	3.42E+02	39.50	1.02E+01	2.32E+00	3.32E+02	3.96E+01
	34	1509.80	1.51E+01	10.39			1.51E+01	1.04E+01
	35	1581.56	7.50E+00	9.41			7.50E+00	9.41E+00
	36	1594.29	1.07E+01	8.00			1.07E+01	8.00E+00
	37	1621.89	2.04E+01	11.06			2.04E+01	1.11E+01
	38	1729.35	1.20E+01	6.93			1.20E+01	6.93E+00
	39	1765.16	3.30E+01	14.21	4.45E+00	2.04E+00	2.85E+01	1.44E+01
	40	1994.76	5.57E+00	6.34			5.57E+00	6.34E+00
	41	2188.34	7.90E+00	7.48			7.90E+00	7.48E+00
	42	2615.17	4.73E+01	15.36	6.29E+00	1.69E+00	4.10E+01	1.55E+01

Analysis Report for 1507047-09

FEEBRISID-15 077-080

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 8:20:00AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	13.80	1.59E+03	157.56	1.24E+03	4.65E+01	3.54E+02	1.64E+02
	2	76.11	4.82E+02	85.46			4.82E+02	8.55E+01
M	3	90.39	3.81E+01	28.00			3.81E+01	2.80E+01
	4	186.01	9.20E+01	48.47	4.79E+01	7.81E+00	4.41E+01	4.91E+01
	5	210.32	5.98E+01	49.96			5.98E+01	5.00E+01
M	6	238.89	3.08E+02	44.68	2.21E+01	3.31E+00	2.86E+02	4.48E+01
m	7	242.13	7.61E+01	33.59	7.15E+00	2.42E+00	6.89E+01	3.37E+01
	8	269.49	5.73E+01	51.15			5.73E+01	5.11E+01
	9	295.36	1.49E+02	36.05	1.30E+01	5.93E+00	1.36E+02	3.65E+01
	10	339.10	7.46E+01	36.99			7.46E+01	3.70E+01
	11	351.97	2.25E+02	47.96	1.67E+01	5.59E+00	2.08E+02	4.83E+01
	12	462.18	2.96E+01	35.81			2.96E+01	3.58E+01
	13	487.86	1.99E+01	22.63			1.99E+01	2.26E+01
	14	510.77	1.24E+02	41.15	9.00E+01	5.68E+00	3.44E+01	4.15E+01
	15	583.51	1.15E+02	40.16	7.99E+00	3.88E+00	1.07E+02	4.03E+01
	16	609.30	1.76E+02	46.82	1.77E+01	8.73E+00	1.58E+02	4.76E+01
	17	663.06	4.29E+01	34.07			4.29E+01	3.41E+01
	18	727.53	2.74E+01	21.74			2.74E+01	2.17E+01
	19	734.22	1.71E+01	18.32			1.71E+01	1.83E+01
	20	794.95	1.70E+01	20.41			1.70E+01	2.04E+01
	21	861.06	2.70E+01	20.89	2.87E+00	3.03E+00	2.41E+01	2.11E+01
	22	911.46	3.46E+01	29.23	3.66E+00	2.67E+00	3.10E+01	2.93E+01
	23	935.29	1.47E+01	14.21			1.47E+01	1.42E+01
	24	969.46	3.43E+01	25.92	2.18E+00	2.58E+00	3.22E+01	2.61E+01
	25	1171.84	1.85E+01	16.79			1.85E+01	1.68E+01
	26	1237.91	1.75E+01	18.43	1.40E+00	2.38E+00	1.61E+01	1.86E+01
	27	1275.70	1.51E+01	14.14			1.51E+01	1.41E+01
	28	1281.95	1.24E+01	10.43			1.24E+01	1.04E+01
	29	1316.14	1.07E+01	13.33			1.07E+01	1.33E+01
	30	1365.64	7.00E+00	8.54			7.00E+00	8.54E+00
	31	1401.26	1.35E+01	10.61			1.35E+01	1.06E+01
	32	1415.65	8.54E+00	10.20			8.54E+00	1.02E+01

Analysis Report for 1507047-09

FEEBRISID-15 077-080

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
33	1461.25	3.42E+02	39.50	1.02E+01	2.32E+00	3.32E+02	3.96E+01
34	1509.80	1.51E+01	10.39			1.51E+01	1.04E+01
35	1581.56	7.50E+00	9.41			7.50E+00	9.41E+00
36	1594.29	1.07E+01	8.00			1.07E+01	8.00E+00
37	1621.89	2.04E+01	11.06			2.04E+01	1.11E+01
38	1729.35	1.20E+01	6.93			1.20E+01	6.93E+00
39	1765.16	3.30E+01	14.21	4.45E+00	2.04E+00	2.85E+01	1.44E+01
40	1994.76	5.57E+00	6.34			5.57E+00	6.34E+00
41	2188.34	7.90E+00	7.48			7.90E+00	7.48E+00
42	2615.17	4.73E+01	15.36	6.29E+00	1.69E+00	4.10E+01	1.55E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.969	1460.81	*	10.67	1.22E+01	1.93E+00
ND-147	0.578	91.11	*	28.90	6.41E-01	4.81E-01
		531.02		13.10		
TL-208	0.965	583.14	*	30.22	6.78E-01	2.63E-01
		860.37	*	4.48	1.40E+00	1.23E+00
		2614.66	*	35.85	5.19E-01	2.00E-01
BI-212	0.749	727.17	*	11.80	5.28E-01	4.21E-01
		1620.62		2.75		
PB-212	0.884	238.63	*	44.60	6.59E-01	1.19E-01
		300.09		3.41		
BI-214	0.651	609.31	*	46.30	6.78E-01	2.12E-01
		1120.29		15.10		
		1764.49	*	15.80	7.93E-01	4.04E-01
		2204.22		4.98		
PB-214	0.998	295.21	*	19.19	8.44E-01	2.40E-01
		351.92	*	37.19	7.49E-01	1.86E-01
RA-226	0.994	186.21	*	3.28	1.17E+00	2.51E+00
AC-228	0.963	338.32	*	11.40	8.55E-01	4.30E-01
		911.07	*	27.70	3.05E-01	2.90E-01
		969.11	*	16.60	5.55E-01	4.52E-01

Analysis Report for 1507047-09

FEEBRISID-15 077-080

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:20:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.80	9.82699E-02	23.22		
	2	76.11	1.33802E-01	8.87		
	5	210.32	1.66234E-02	41.74	Tol.	CM-243
m	7	242.13	1.91480E-02	24.42		
	8	269.49	1.59049E-02	44.66		
	12	462.18	8.22034E-03	60.50		
	13	487.86	5.52137E-03	56.92	Tol.	LA-140
	14	510.77	9.54802E-03	60.43		
	17	663.06	1.19278E-02	39.67		
	19	734.22	4.75610E-03	53.49	Tol.	PA-234
	20	794.95	4.71088E-03	60.17	Sum	
	23	935.29	4.07051E-03	48.49	Sum	
	25	1171.84	5.13889E-03	45.37		
	26	1237.91	4.47338E-03	57.68	Tol.	CO-56
	27	1275.70	4.18803E-03	46.90		
	28	1281.95	3.44136E-03	42.09		
	29	1316.14	2.98309E-03	62.07		
	30	1365.64	1.94444E-03	61.03		
	31	1401.26	3.75000E-03	39.28		
	32	1415.65	2.37103E-03	59.74		
	34	1509.80	4.18210E-03	34.51		
	35	1581.56	2.08333E-03	62.72		
	36	1594.29	2.97454E-03	37.35		
	37	1621.89	5.67633E-03	27.05		
	38	1729.35	3.33333E-03	28.87		
	40	1994.76	1.54762E-03	56.94		
	41	2188.34	2.19444E-03	47.36	Sum	

Analysis Report for 1507047-09

FEEBRISID-15 077-080

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.96	1460.81	*	10.67	1.22E+01	1.93E+00
ND-147	0.57	91.11	*	28.90	6.41E-01	4.81E-01
		531.02		13.10		
TL-208	0.96	583.14	*	30.22	6.78E-01	2.63E-01
		860.37	*	4.48	1.40E+00	1.23E+00
		2614.66	*	35.85	5.19E-01	2.00E-01
BI-212	0.74	727.17	*	11.80	5.28E-01	4.21E-01
		1620.62		2.75		
PB-212	0.88	238.63	*	44.60	6.59E-01	1.19E-01
		300.09		3.41		
BI-214	0.65	609.31	*	46.30	6.78E-01	2.12E-01
		1120.29		15.10		
		1764.49	*	15.80	7.93E-01	4.04E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	8.44E-01	2.40E-01
		351.92	*	37.19	7.49E-01	1.86E-01
RA-226	0.99	186.21	*	3.28	1.17E+00	2.51E+00
AC-228	0.96	338.32	*	11.40	8.55E-01	4.30E-01
		911.07	*	27.70	3.05E-01	2.90E-01
		969.11	*	16.60	5.55E-01	4.52E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1507047-09

FEEBRISID-15 077-080

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.969	1.22E+01	1.93E+00	
ND-147	0.578	6.41E-01	4.81E-01	
TL-208	0.965	5.91E-01	1.58E-01	
BI-212	0.749	5.28E-01	4.21E-01	
PB-212	0.884	6.59E-01	1.19E-01	
BI-214	0.651	7.03E-01	1.88E-01	
PB-214	0.998	7.84E-01	1.47E-01	
RA-226	0.994	1.17E+00	2.51E+00	
AC-228	0.963	4.94E-01	2.12E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-09

FEEBRISID-15 077-080

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:20:00AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.80	9.82699E-02	23.22		
	2	76.11	1.33802E-01	8.87		
	5	210.32	1.66234E-02	41.74	Tol.	CM-243
m	7	242.13	1.91480E-02	24.42		
	8	269.49	1.59049E-02	44.66		
	12	462.18	8.22034E-03	60.50		
	13	487.86	5.52137E-03	56.92	Tol.	LA-140
	14	510.77	9.54802E-03	60.43		
	17	663.06	1.19278E-02	39.67		
	19	734.22	4.75610E-03	53.49	Tol.	PA-234
	20	794.95	4.71088E-03	60.17	Sum	
	23	935.29	4.07051E-03	48.49	Sum	
	25	1171.84	5.13889E-03	45.37		
	26	1237.91	4.47338E-03	57.68	Tol.	CO-56
	27	1275.70	4.18803E-03	46.90		
	28	1281.95	3.44136E-03	42.09		
	29	1316.14	2.98309E-03	62.07		
	30	1365.64	1.94444E-03	61.03		
	31	1401.26	3.75000E-03	39.28		
	32	1415.65	2.37103E-03	59.74		
	34	1509.80	4.18210E-03	34.51		
	35	1581.56	2.08333E-03	62.72		
	36	1594.29	2.97454E-03	37.35		
	37	1621.89	5.67633E-03	27.05		
	38	1729.35	3.33333E-03	28.87		
	40	1994.76	1.54762E-03	56.94		
	41	2188.34	2.19444E-03	47.36	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-09

FEEBRISID-15 077-080

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.34E-01	8.33E-01	8.33E-01
+	NA-22	1274.54		99.94	6.32E-02	9.65E-02	9.65E-02
+	NA-24	1368.53		99.99	-2.03E+13	3.08E+13	2.01E+14
		2754.09		99.86	0.00E+00		3.08E+13
+	AL-26	1808.65		99.76	9.11E-03	6.68E-02	6.68E-02
+	K-40	1460.81	*	10.67	1.22E+01	1.04E+00	1.04E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-1.27E-03	4.97E-02	4.97E-02
		78.34		96.00	1.21E-01		6.71E-02
+	SC-46	889.25		99.98	2.44E-02	1.14E-01	1.14E-01
		1120.51		99.99	8.51E-02		1.55E-01
+	V-48	983.52		99.98	-9.42E-02	2.73E-01	2.73E-01
		1312.10		97.50	4.49E-02		3.28E-01
+	CR-51	320.08		9.83	3.57E-01	1.27E+00	1.27E+00
+	MN-54	834.83		99.97	-3.70E-02	7.68E-02	7.68E-02
+	CO-56	846.75		99.96	-1.89E-02	1.06E-01	1.06E-01
		1037.75		14.03	-2.98E-01		6.73E-01
		1238.25		67.00	-4.62E-02		2.24E-01
		1771.40		15.51	-1.65E-01		5.64E-01
		2598.48		16.90	1.78E-01		4.67E-01
+	CO-57	122.06		85.51	-3.84E-02	5.60E-02	5.60E-02
		136.48		10.60	-8.81E-02		5.03E-01
+	CO-58	810.76		99.40	7.00E-03	9.47E-02	9.47E-02
+	FE-59	1099.22		56.50	-4.62E-02	2.17E-01	2.60E-01
		1291.56		43.20	-8.22E-02		2.17E-01
+	CO-60	1173.22		100.00	3.54E-02	8.95E-02	9.81E-02
		1332.49		100.00	0.00E+00		8.95E-02
+	ZN-65	1115.52		50.75	-3.15E-01	1.73E-01	1.73E-01
+	GA-67	93.31		35.70	5.67E+01	1.46E+02	1.46E+02
		208.95		2.24	4.26E+02		2.33E+03
		300.22		16.00	1.82E+02		3.48E+02
+	SE-75	121.11		16.70	-9.38E-02	9.59E-02	3.12E-01
		136.00		59.20	-6.91E-02		9.59E-02
		264.65		59.80	-1.03E-02		1.05E-01
		279.53		25.20	2.81E-02		2.65E-01
		400.65		11.40	1.42E-01		6.08E-01
+	RB-82	776.52		13.00	7.93E-02	1.31E+00	1.31E+00
+	RB-83	520.41		46.00	6.52E-02	1.61E-01	1.61E-01
		529.64		30.30	-1.89E-01		1.83E-01
		552.65		16.40	3.68E-02		4.16E-01

Analysis Report for 1507047-09

FEEBRISID-15 077-080

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	KR-85	513.99	0.43	-8.58E+00	1.66E+01	1.66E+01
+	SR-85	513.99	99.27	-5.25E-02	1.02E-01	1.02E-01
+	Y-88	898.02	93.40	3.43E-02	7.26E-02	1.15E-01
		1836.01	99.38	-4.58E-02		7.26E-02
+	NB-93M	16.57	9.43	-2.54E+03	6.53E+03	6.53E+03
+	NB-94	702.63	100.00	1.50E-02	5.89E-02	8.30E-02
		871.10	100.00	-3.24E-02		5.89E-02
+	NB-95	765.79	99.81	9.70E-02	1.81E-01	1.81E-01
+	NB-95M	235.69	25.00	2.02E+01	1.29E+02	1.29E+02
+	ZR-95	724.18	43.70	-6.54E-03	1.81E-01	2.66E-01
		756.72	55.30	5.96E-02		1.81E-01
+	MO-99	181.06	6.20	1.59E+03	1.63E+03	2.61E+03
		739.58	12.80	-2.83E+02		1.63E+03
		778.00	4.50	-2.66E+03		4.91E+03
+	RU-103	497.08	89.00	-1.55E-02	1.18E-01	1.18E-01
+	RU-106	621.84	9.80	1.53E-01	8.05E-01	8.05E-01
+	AG-108M	433.93	89.90	-6.20E-04	6.14E-02	6.14E-02
		614.37	90.40	1.22E-02		8.28E-02
		722.95	90.50	-1.75E-03		7.66E-02
+	CD-109	88.03	3.72	5.94E-01	1.69E+00	1.69E+00
+	AG-110M	657.75	93.14	1.73E-02	9.10E-02	9.10E-02
		677.61	10.53	6.46E-02		6.57E-01
		706.67	16.46	1.59E-01		5.40E-01
		763.93	21.98	-1.54E-01		4.30E-01
		884.67	71.63	-3.82E-02		1.27E-01
		1384.27	23.94	7.86E-04		3.14E-01
+	CD-113M	263.70	0.02	1.92E+01	2.27E+02	2.27E+02
+	SN-113	255.12	1.93	-7.55E-01	1.09E-01	3.12E+00
		391.69	64.90	2.73E-02		1.09E-01
+	TE123M	159.00	84.10	2.84E-02	6.92E-02	6.92E-02
+	SB-124	602.71	97.87	-7.19E-03	1.05E-01	1.05E-01
		645.85	7.26	-2.59E-01		1.41E+00
		722.78	11.10	-2.06E-02		9.02E-01
		1691.02	49.00	-5.28E-02		1.36E-01
+	I-125	35.49	6.49	-3.42E+00	6.19E+00	6.19E+00
+	SB-125	176.33	6.89	-2.39E-01	1.87E-01	7.07E-01
		427.89	29.33	-1.94E-02		1.87E-01
		463.38	10.35	3.87E-01		6.93E-01
		600.56	17.80	2.00E-01		4.19E-01
		635.90	11.32	-2.79E-02		6.46E-01
+	SB-126	414.70	83.30	2.42E-02	4.17E-01	4.17E-01
		666.33	99.60	-2.98E-01		4.37E-01
		695.00	99.60	1.58E-01		5.14E-01
		720.50	53.80	-4.17E-02		7.78E-01
+	SN-126	87.57	37.00	5.70E-02	1.62E-01	1.62E-01
+	SB-127	473.00	25.00	-1.65E+01	5.98E+01	6.40E+01
		685.20	35.70	9.91E-01		5.98E+01
		783.80	14.70	1.14E+01		1.85E+02

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		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		I-129	29.78	57.00	1.86E-01	1.33E+00	1.33E+00
			33.60	13.20	2.51E-02		2.81E+00
			39.58	7.52	-4.39E-01		2.44E+00
+		I-131	284.30	6.05	-1.14E+01	9.83E-01	1.44E+01
			364.48	81.20	-5.65E-01		9.83E-01
			636.97	7.26	7.11E+00		1.63E+01
			722.89	1.80	-1.39E+00		6.07E+01
+		TE-132	49.72	13.10	-7.44E+01	5.67E+01	6.27E+02
			228.16	88.00	3.09E+01		5.67E+01
+		BA-133	81.00	33.00	-4.42E-04	8.49E-02	1.27E-01
			302.84	17.80	-1.95E-02		3.22E-01
			356.01	60.00	1.29E-03		8.49E-02
+		I-133	529.87	86.30	-2.20E+08	7.92E+09	7.92E+09
+		XE-133	81.00	38.00	-2.62E-02	7.56E+00	7.56E+00
+		CS-134	563.23	8.38	-3.41E-01	9.05E-02	7.63E-01
			569.32	15.43	8.96E-03		4.35E-01
			604.70	97.60	-4.75E-01		9.05E-02
			795.84	85.40	5.41E-02		1.06E-01
			801.93	8.73	2.90E-02		8.04E-01
+		CS-135	268.24	16.00	1.59E-02	3.88E-01	3.88E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	2.00E+00	4.39E-01	3.76E+00
			163.89	4.61	-2.07E+00		5.59E+00
			176.55	13.56	-4.14E-01		1.93E+00
			273.65	12.66	6.67E-03		2.19E+00
			340.57	48.50	-1.81E-02		7.00E-01
			818.50	99.70	1.10E-01		4.39E-01
			1048.07	79.60	-1.60E-01		5.28E-01
			1235.34	19.70	-4.05E-01		2.99E+00
+		CS-137	661.65	85.12	6.86E-02	1.02E-01	1.02E-01
+		LA-138	788.74	34.00	6.88E-02	9.34E-02	2.56E-01
			1435.80	66.00	-1.47E-02		9.34E-02
+		CE-139	165.85	80.35	-2.02E-02	7.14E-02	7.14E-02
+		BA-140	162.64	6.70	-2.50E+00	1.39E+00	4.02E+00
			304.84	4.50	1.19E+00		6.81E+00
			423.70	3.20	1.07E+00		1.01E+01
			437.55	2.00	2.05E+00		1.63E+01
			537.32	25.00	2.89E-01		1.39E+00
+		LA-140	328.77	20.50	1.49E+00	4.81E-01	1.79E+00
			487.03	45.50	-8.92E-02		7.24E-01
			815.85	23.50	3.96E-01		1.93E+00
			1596.49	95.49	2.47E-02		4.81E-01
+		CE-141	145.44	48.40	-1.70E-01	1.99E-01	1.99E-01
+		CE-143	57.36	11.80	1.38E+06	1.77E+06	4.86E+06
			293.26	42.00	1.53E+05		1.77E+06
			664.55	5.20	7.63E+06		1.65E+07
+		CE-144	133.54	10.80	-2.92E-02	4.77E-01	4.77E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-144	476.78		42.00	2.34E-02	8.43E-02	1.45E-01
		618.01		98.60	3.14E-02		8.43E-02
		696.49		99.49	2.64E-03		8.81E-02
+	PM-145	36.85		21.70	3.17E-01	5.80E-01	1.13E+00
		37.36		39.70	1.63E-01		5.80E-01
		42.30		15.10	-1.21E-01		9.24E-01
		72.40		2.31	-1.26E+00		1.99E+00
+	PM-146	453.90		39.94	-2.55E-02	1.30E-01	1.30E-01
		735.90		14.01	-8.28E-02		5.13E-01
		747.13		13.10	1.15E-01		5.42E-01
+	ND-147	91.11	*	28.90	6.41E-01	1.95E+00	1.95E+00
		531.02		13.10	-2.18E-01		2.95E+00
+	PM-149	285.90		3.10	-7.95E+03	4.37E+04	4.37E+04
+	EU-152	121.78		20.50	-1.48E-01	2.16E-01	2.16E-01
		244.69		5.40	-1.25E+00		1.01E+00
		344.27		19.13	-5.44E-02		2.62E-01
		778.89		9.20	5.31E-02		8.32E-01
		964.01		10.40	5.80E-02		9.05E-01
		1085.78		7.22	4.10E-01		1.16E+00
		1112.02		9.60	1.51E-01		8.86E-01
		1407.95		14.94	2.34E-02		4.67E-01
+	GD-153	97.43		31.30	7.10E-02	1.58E-01	1.58E-01
		103.18		22.20	-1.24E-02		2.08E-01
+	EU-154	123.07		40.50	6.70E-02	1.16E-01	1.16E-01
		723.30		19.70	-8.09E-03		3.54E-01
		873.19		11.50	6.59E-02		6.40E-01
		996.32		10.30	-2.96E-02		8.19E-01
		1004.76		17.90	1.50E-01		4.75E-01
		1274.45		35.50	1.75E-01		2.67E-01
+	EU-155	86.50		30.90	1.64E-01	1.95E-01	1.95E-01
		105.30		20.70	-2.89E-02		2.08E-01
+	EU-156	811.77		10.40	-8.56E-01	2.90E+00	2.90E+00
		1153.47		7.20	1.90E+00		5.48E+00
		1230.71		8.90	4.48E-01		5.27E+00
+	HO-166M	184.41		72.60	7.88E-03	8.28E-02	8.28E-02
		280.45		29.60	1.99E-02		1.88E-01
		410.94		11.10	-8.88E-02		5.40E-01
		711.69		54.10	-5.99E-02		1.26E-01
+	TM-171	66.72		0.14	1.68E+00	3.49E+01	3.49E+01
+	HF-172	81.75		4.52	-2.76E-01	4.20E-01	9.40E-01
		125.81		11.30	-2.94E-01		4.20E-01
+	LU-172	181.53		20.60	1.75E+00	3.90E+00	6.79E+00
		810.06		16.63	8.37E-01		1.13E+01
		912.12		15.25	1.38E+01		2.11E+01
		1093.66		62.50	1.24E+00		3.90E+00
+	LU-173	100.72		5.24	2.27E-01	2.97E-01	8.67E-01
		272.11		21.20	-6.67E-02		2.97E-01
+	HF-175	343.40		84.00	-3.40E-03	8.47E-02	8.47E-02
+	LU-176	88.34		13.30	1.58E-01	5.85E-02	4.51E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-176	201.83		86.00	-2.39E-03	5.85E-02	6.42E-02
		306.78		94.00	-5.89E-03		5.85E-02
+	TA-182	67.75		41.20	-3.54E-03	1.38E-01	1.38E-01
		1121.30		34.90	3.41E-01		4.24E-01
		1189.05		16.23	-6.05E-02		7.01E-01
		1221.41		26.98	7.18E-02		4.93E-01
		1231.02		11.44	2.97E-02		1.11E+00
+	IR-192	308.46		29.68	-1.02E-02	1.55E-01	2.52E-01
		468.07		48.10	6.71E-02		1.55E-01
+	HG-203	279.19		77.30	1.00E-01	1.19E-01	1.19E-01
+	BI-207	569.67		97.72	1.38E-03	6.68E-02	6.68E-02
		1063.62		74.90	-6.20E-03		1.28E-01
+	TL-208	583.14	*	30.22	6.78E-01	2.14E-01	3.79E-01
		860.37	*	4.48	1.40E+00		1.94E+00
		2614.66	*	35.85	5.19E-01		2.14E-01
+	BI-210M	262.00		45.00	2.15E-02	1.14E-01	1.14E-01
		300.00		23.00	1.41E-01		2.69E-01
+	PB-210	46.50		4.25	2.43E+00	2.79E+00	2.79E+00
+	PB-211	404.84		2.90	-9.71E-01	1.99E+00	1.99E+00
		831.96		2.90	3.07E-01		2.42E+00
+	BI-212	727.17	*	11.80	5.28E-01	6.56E-01	6.56E-01
		1620.62		2.75	9.92E-01		3.59E+00
+	PB-212	238.63	*	44.60	6.59E-01	2.12E-01	2.12E-01
		300.09		3.41	9.50E-01		1.81E+00
+	BI-214	609.31	*	46.30	6.78E-01	2.96E-01	2.96E-01
		1120.29		15.10	4.33E-01		7.87E-01
		1764.49	*	15.80	7.93E-01		5.14E-01
		2204.22		4.98	3.54E-01		1.83E+00
+	PB-214	295.21	*	19.19	8.44E-01	2.39E-01	3.03E-01
		351.92	*	37.19	7.49E-01		2.39E-01
+	RN-219	401.80		6.50	2.62E-02	8.88E-01	8.88E-01
+	RA-223	323.87		3.88	-5.38E-01	1.39E+00	1.39E+00
+	RA-224	240.98		3.95	6.51E+00	2.64E+00	2.64E+00
+	RA-225	40.00		31.00	-4.58E-01	2.54E+00	2.54E+00
+	RA-226	186.21	*	3.28	1.17E+00	2.14E+00	2.14E+00
+	TH-227	50.10		8.40	-1.26E-01	6.01E-01	1.06E+00
		236.00		11.50	9.43E-02		6.01E-01
		256.20		6.30	2.88E-01		8.19E-01
+	AC-228	338.32	*	11.40	8.55E-01	5.53E-01	6.47E-01
		911.07	*	27.70	3.05E-01		5.53E-01
		969.11	*	16.60	5.55E-01		7.13E-01
+	TH-230	48.44		16.90	-5.66E-01	5.57E-01	5.57E-01
		62.85		4.60	8.05E-01		1.25E+00
		67.67		0.37	-3.25E-01		1.27E+01
+	PA-231	283.67		1.60	-2.72E+00	2.47E+00	3.44E+00
		302.67		2.30	-1.50E-01		2.47E+00
+	TH-231	25.64		14.70	5.54E+00	6.98E-01	1.71E+01
		84.21		6.40	3.30E-01		6.98E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PA-233	311.98	38.60	7.80E-02	3.26E-01	3.26E-01
+	PA-234	131.20	20.40	1.39E-01	2.45E-01	2.45E-01
		733.99	8.80	4.08E-01		8.45E-01
		946.00	12.00	5.74E-02		6.89E-01
+	PA-234M	1001.03	0.92	5.71E-01	9.66E+00	9.66E+00
+	TH-234	63.29	3.80	9.66E-01	1.50E+00	1.50E+00
+	U-235	143.76	10.50	-2.86E-02	4.55E-01	4.55E-01
		163.35	4.70	-6.32E-01		1.01E+00
		205.31	4.70	5.60E-02		1.17E+00
+	NP-237	86.50	12.60	3.98E-01	4.73E-01	4.73E-01
+	NP-239	106.10	22.70	-4.27E+02	2.31E+03	2.31E+03
		228.18	10.70	3.46E+03		6.35E+03
		277.60	14.10	-3.58E+03		4.63E+03
+	AM-241	59.54	35.90	8.75E-02	1.46E-01	1.46E-01
+	AM-243	74.67	66.00	-7.01E-02	9.60E-02	9.60E-02
+	CM-243	209.75	3.29	8.88E-01	3.80E-01	1.78E+00
		228.14	10.60	2.84E-01		5.22E-01
		277.60	14.00	-2.94E-01		3.80E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	8.33E-01	8.33E-01	1.34E-01	3.84E-01
NA-22	1274.54	99.94	9.65E-02	9.65E-02	6.32E-02	4.33E-02
NA-24	1368.53	99.99	2.01E+14	3.08E+13	-2.03E+13	8.73E+13
	2754.09	99.86	3.08E+13		0.00E+00	0.00E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AL-26	1808.65		99.76	6.68E-02	6.68E-02	9.11E-03	2.74E-02
+	K-40	1460.81	*	10.67	1.04E+00	1.04E+00	1.22E+01	4.68E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.97E-02	4.97E-02	-1.27E-03	2.38E-02
		78.34		96.00	6.71E-02		1.21E-01	3.26E-02
	SC-46	889.25		99.98	1.14E-01	1.14E-01	2.44E-02	5.25E-02
		1120.51		99.99	1.55E-01		8.51E-02	7.18E-02
	V-48	983.52		99.98	2.73E-01	2.73E-01	-9.42E-02	1.21E-01
		1312.10		97.50	3.28E-01		4.49E-02	1.44E-01
	CR-51	320.08		9.83	1.27E+00	1.27E+00	3.57E-01	5.99E-01
	MN-54	834.83		99.97	7.68E-02	7.68E-02	-3.70E-02	3.47E-02
	CO-56	846.75		99.96	1.06E-01	1.06E-01	-1.89E-02	4.81E-02
		1037.75		14.03	6.73E-01		-2.98E-01	2.98E-01
		1238.25		67.00	2.24E-01		-4.62E-02	1.03E-01
		1771.40		15.51	5.64E-01		-1.65E-01	2.31E-01
		2598.48		16.90	4.67E-01		1.78E-01	1.85E-01
	CO-57	122.06		85.51	5.60E-02	5.60E-02	-3.84E-02	2.68E-02
		136.48		10.60	5.03E-01		-8.81E-02	2.41E-01
	CO-58	810.76		99.40	9.47E-02	9.47E-02	7.00E-03	4.27E-02
	FE-59	1099.22		56.50	2.60E-01	2.17E-01	-4.62E-02	1.18E-01
		1291.56		43.20	2.17E-01		-8.22E-02	9.01E-02
	CO-60	1173.22		100.00	9.81E-02	8.95E-02	3.54E-02	4.45E-02
		1332.49		100.00	8.95E-02		0.00E+00	3.97E-02
	ZN-65	1115.52		50.75	1.73E-01	1.73E-01	-3.15E-01	7.73E-02
	GA-67	93.31		35.70	1.46E+02	1.46E+02	5.67E+01	7.07E+01
		208.95		2.24	2.33E+03		4.26E+02	1.11E+03
		300.22		16.00	3.48E+02		1.82E+02	1.65E+02
	SE-75	121.11		16.70	3.12E-01	9.59E-02	-9.38E-02	1.49E-01
		136.00		59.20	9.59E-02		-6.91E-02	4.60E-02
		264.65		59.80	1.05E-01		-1.03E-02	4.95E-02
		279.53		25.20	2.65E-01		2.81E-02	1.25E-01
		400.65		11.40	6.08E-01		1.42E-01	2.83E-01
	RB-82	776.52		13.00	1.31E+00	1.31E+00	7.93E-02	5.95E-01
	RB-83	520.41		46.00	1.61E-01	1.61E-01	6.52E-02	7.38E-02
		529.64		30.30	1.83E-01		-1.89E-01	8.13E-02
		552.65		16.40	4.16E-01		3.68E-02	1.88E-01
	KR-85	513.99		0.43	1.66E+01	1.66E+01	-8.58E+00	7.77E+00
	SR-85	513.99		99.27	1.02E-01	1.02E-01	-5.25E-02	4.75E-02
	Y-88	898.02		93.40	1.15E-01	7.26E-02	3.43E-02	5.29E-02
		1836.01		99.38	7.26E-02		-4.58E-02	2.88E-02
	NB-93M	16.57		9.43	6.53E+03	6.53E+03	-2.54E+03	3.16E+03
	NB-94	702.63		100.00	8.30E-02	5.89E-02	1.50E-02	3.85E-02
		871.10		100.00	5.89E-02		-3.24E-02	2.59E-02
	NB-95	765.79		99.81	1.81E-01	1.81E-01	9.70E-02	8.44E-02
	NB-95M	235.69		25.00	1.29E+02	1.29E+02	2.02E+01	6.17E+01
	ZR-95	724.18		43.70	2.66E-01	1.81E-01	-6.54E-03	1.23E-01
		756.72		55.30	1.81E-01		5.96E-02	8.25E-02
	MO-99	181.06		6.20	2.61E+03	1.63E+03	1.59E+03	1.24E+03
		739.58		12.80	1.63E+03		-2.83E+02	7.39E+02
		778.00		4.50	4.91E+03		-2.66E+03	2.22E+03
	RU-103	497.08		89.00	1.18E-01	1.18E-01	-1.55E-02	5.43E-02
	RU-106	621.84		9.80	8.05E-01	8.05E-01	1.53E-01	3.73E-01
	AG-108M	433.93		89.90	6.14E-02	6.14E-02	-6.20E-04	2.83E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-108M	614.37	90.40	8.28E-02	6.14E-02	1.22E-02	3.84E-02
	722.95	90.50	7.66E-02		-1.75E-03	3.49E-02
CD-109	88.03	3.72	1.69E+00	1.69E+00	5.94E-01	8.21E-01
AG-110M	657.75	93.14	9.10E-02	9.10E-02	1.73E-02	4.21E-02
	677.61	10.53	6.57E-01		6.46E-02	2.98E-01
	706.67	16.46	5.40E-01		1.59E-01	2.50E-01
	763.93	21.98	4.30E-01		-1.54E-01	1.99E-01
	884.67	71.63	1.27E-01		-3.82E-02	5.82E-02
	1384.27	23.94	3.14E-01		7.86E-04	1.33E-01
CD-113M	263.70	0.02	2.27E+02	2.27E+02	1.92E+01	1.07E+02
SN-113	255.12	1.93	3.12E+00	1.09E-01	-7.55E-01	1.47E+00
	391.69	64.90	1.09E-01		2.73E-02	5.09E-02
TE123M	159.00	84.10	6.92E-02	6.92E-02	2.84E-02	3.31E-02
SB-124	602.71	97.87	1.05E-01	1.05E-01	-7.19E-03	4.87E-02
	645.85	7.26	1.41E+00		-2.59E-01	6.51E-01
	722.78	11.10	9.02E-01		-2.06E-02	4.11E-01
	1691.02	49.00	1.36E-01		-5.28E-02	5.11E-02
I-125	35.49	6.49	6.19E+00	6.19E+00	-3.42E+00	2.98E+00
SB-125	176.33	6.89	7.07E-01	1.87E-01	-2.39E-01	3.36E-01
	427.89	29.33	1.87E-01		-1.94E-02	8.61E-02
	463.38	10.35	6.93E-01		3.87E-01	3.25E-01
	600.56	17.80	4.19E-01		2.00E-01	1.94E-01
	635.90	11.32	6.46E-01		-2.79E-02	2.98E-01
SB-126	414.70	83.30	4.17E-01	4.17E-01	2.42E-02	1.94E-01
	666.33	99.60	4.37E-01		-2.98E-01	2.01E-01
	695.00	99.60	5.14E-01		1.58E-01	2.39E-01
	720.50	53.80	7.78E-01		-4.17E-02	3.55E-01
SN-126	87.57	37.00	1.62E-01	1.62E-01	5.70E-02	7.87E-02
SB-127	473.00	25.00	6.40E+01	5.98E+01	-1.65E+01	2.92E+01
	685.20	35.70	5.98E+01		9.91E-01	2.73E+01
	783.80	14.70	1.85E+02		1.14E+01	8.57E+01
I-129	29.78	57.00	1.33E+00	1.33E+00	1.86E-01	6.41E-01
	33.60	13.20	2.81E+00		2.51E-02	1.36E+00
	39.58	7.52	2.44E+00		-4.39E-01	1.18E+00
I-131	284.30	6.05	1.44E+01	9.83E-01	-1.14E+01	6.77E+00
	364.48	81.20	9.83E-01		-5.65E-01	4.56E-01
	636.97	7.26	1.63E+01		7.11E+00	7.54E+00
	722.89	1.80	6.07E+01		-1.39E+00	2.77E+01
TE-132	49.72	13.10	6.27E+02	5.67E+01	-7.44E+01	3.02E+02
	228.16	88.00	5.67E+01		3.09E+01	2.70E+01
BA-133	81.00	33.00	1.27E-01	8.49E-02	-4.42E-04	6.10E-02
	302.84	17.80	3.22E-01		-1.95E-02	1.52E-01
	356.01	60.00	8.49E-02		1.29E-03	3.94E-02
I-133	529.87	86.30	7.92E+09	7.92E+09	-2.20E+08	3.60E+09
XE-133	81.00	38.00	7.56E+00	7.56E+00	-2.62E-02	3.62E+00
CS-134	563.23	8.38	7.63E-01	9.05E-02	-3.41E-01	3.50E-01
	569.32	15.43	4.35E-01		8.96E-03	2.00E-01
	604.70	97.60	9.05E-02		-4.75E-01	4.24E-02
	795.84	85.40	1.06E-01		5.41E-02	4.89E-02
	801.93	8.73	8.04E-01		2.90E-02	3.63E-01
CS-135	268.24	16.00	3.88E-01	3.88E-01	1.59E-02	1.84E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	I-135	1678.03		9.54	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.76E+00	4.39E-01	2.00E+00	1.80E+00
		163.89		4.61	5.59E+00		-2.07E+00	2.67E+00
		176.55		13.56	1.93E+00		-4.14E-01	9.20E-01
		273.65		12.66	2.19E+00		6.67E-03	1.03E+00
		340.57		48.50	7.00E-01		-1.81E-02	3.30E-01
		818.50		99.70	4.39E-01		1.10E-01	2.01E-01
		1048.07		79.60	5.28E-01		-1.60E-01	2.36E-01
		1235.34		19.70	2.99E+00		-4.05E-01	1.37E+00
	CS-137	661.65		85.12	1.02E-01	1.02E-01	6.86E-02	4.77E-02
	LA-138	788.74		34.00	2.56E-01	9.34E-02	6.88E-02	1.18E-01
		1435.80		66.00	9.34E-02		-1.47E-02	3.87E-02
	CE-139	165.85		80.35	7.14E-02	7.14E-02	-2.02E-02	3.41E-02
	BA-140	162.64		6.70	4.02E+00	1.39E+00	-2.50E+00	1.92E+00
		304.84		4.50	6.81E+00		1.19E+00	3.20E+00
		423.70		3.20	1.01E+01		1.07E+00	4.69E+00
		437.55		2.00	1.63E+01		2.05E+00	7.54E+00
		537.32		25.00	1.39E+00		2.89E-01	6.38E-01
	LA-140	328.77		20.50	1.79E+00	4.81E-01	1.49E+00	8.50E-01
		487.03		45.50	7.24E-01		-8.92E-02	3.34E-01
		815.85		23.50	1.93E+00		3.96E-01	8.83E-01
		1596.49		95.49	4.81E-01		2.47E-02	2.07E-01
	CE-141	145.44		48.40	1.99E-01	1.99E-01	-1.70E-01	9.53E-02
	CE-143	57.36		11.80	4.86E+06	1.77E+06	1.38E+06	2.33E+06
		293.26		42.00	1.77E+06		1.53E+05	8.46E+05
		664.55		5.20	1.65E+07		7.63E+06	7.67E+06
	CE-144	133.54		10.80	4.77E-01	4.77E-01	-2.92E-02	2.29E-01
	PM-144	476.78		42.00	1.45E-01	8.43E-02	2.34E-02	6.68E-02
		618.01		98.60	8.43E-02		3.14E-02	3.92E-02
		696.49		99.49	8.81E-02		2.64E-03	4.09E-02
	PM-145	36.85		21.70	1.13E+00	5.80E-01	3.17E-01	5.45E-01
		37.36		39.70	5.80E-01		1.63E-01	2.80E-01
		42.30		15.10	9.24E-01		-1.21E-01	4.45E-01
		72.40		2.31	1.99E+00		-1.26E+00	9.54E-01
	PM-146	453.90		39.94	1.30E-01	1.30E-01	-2.55E-02	5.95E-02
		735.90		14.01	5.13E-01		-8.28E-02	2.34E-01
		747.13		13.10	5.42E-01		1.15E-01	2.47E-01
+	ND-147	91.11	*	28.90	1.95E+00	1.95E+00	6.41E-01	9.51E-01
		531.02		13.10	2.95E+00		-2.18E-01	1.33E+00
	PM-149	285.90		3.10	4.37E+04	4.37E+04	-7.95E+03	2.07E+04
	EU-152	121.78		20.50	2.16E-01	2.16E-01	-1.48E-01	1.03E-01
		244.69		5.40	1.01E+00		-1.25E+00	4.81E-01
		344.27		19.13	2.62E-01		-5.44E-02	1.22E-01
		778.89		9.20	8.32E-01		5.31E-02	3.81E-01
		964.01		10.40	9.05E-01		5.80E-02	4.15E-01
		1085.78		7.22	1.16E+00		4.10E-01	5.18E-01
		1112.02		9.60	8.86E-01		1.51E-01	3.97E-01
		1407.95		14.94	4.67E-01		2.34E-02	1.99E-01
	GD-153	97.43		31.30	1.58E-01	1.58E-01	7.10E-02	7.59E-02
		103.18		22.20	2.08E-01		-1.24E-02	9.98E-02
	EU-154	123.07		40.50	1.16E-01	1.16E-01	6.70E-02	5.57E-02
		723.30		19.70	3.54E-01		-8.09E-03	1.61E-01
		873.19		11.50	6.40E-01		6.59E-02	2.89E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	996.32		10.30	8.19E-01	1.16E-01	-2.96E-02	3.71E-01
		1004.76		17.90	4.75E-01		1.50E-01	2.15E-01
		1274.45		35.50	2.67E-01		1.75E-01	1.20E-01
	EU-155	86.50		30.90	1.95E-01	1.95E-01	1.64E-01	9.48E-02
		105.30		20.70	2.08E-01		-2.89E-02	9.98E-02
	EU-156	811.77		10.40	2.90E+00	2.90E+00	-8.56E-01	1.31E+00
		1153.47		7.20	5.48E+00		1.90E+00	2.47E+00
		1230.71		8.90	5.27E+00		4.48E-01	2.41E+00
	HO-166M	184.41		72.60	8.28E-02	8.28E-02	7.88E-03	3.98E-02
		280.45		29.60	1.88E-01		1.99E-02	8.88E-02
		410.94		11.10	5.40E-01		-8.88E-02	2.52E-01
		711.69		54.10	1.26E-01		-5.99E-02	5.76E-02
	TM-171	66.72		0.14	3.49E+01	3.49E+01	1.68E+00	1.67E+01
	HF-172	81.75		4.52	9.40E-01	4.20E-01	-2.76E-01	4.50E-01
		125.81		11.30	4.20E-01		-2.94E-01	2.01E-01
	LU-172	181.53		20.60	6.79E+00	3.90E+00	1.75E+00	3.24E+00
		810.06		16.63	1.13E+01		8.37E-01	5.11E+00
		912.12		15.25	2.11E+01		1.38E+01	9.87E+00
		1093.66		62.50	3.90E+00		1.24E+00	1.76E+00
	LU-173	100.72		5.24	8.67E-01	2.97E-01	2.27E-01	4.16E-01
		272.11		21.20	2.97E-01		-6.67E-02	1.41E-01
	HF-175	343.40		84.00	8.47E-02	8.47E-02	-3.40E-03	3.94E-02
	LU-176	88.34		13.30	4.51E-01	5.85E-02	1.58E-01	2.19E-01
		201.83		86.00	6.42E-02		-2.39E-03	3.07E-02
		306.78		94.00	5.85E-02		-5.89E-03	2.75E-02
	TA-182	67.75		41.20	1.38E-01	1.38E-01	-3.54E-03	6.62E-02
		1121.30		34.90	4.24E-01		3.41E-01	1.97E-01
		1189.05		16.23	7.01E-01		-6.05E-02	3.16E-01
		1221.41		26.98	4.93E-01		7.18E-02	2.25E-01
		1231.02		11.44	1.11E+00		2.97E-02	5.07E-01
	IR-192	308.46		29.68	2.52E-01	1.55E-01	-1.02E-02	1.19E-01
		468.07		48.10	1.55E-01		6.71E-02	7.15E-02
	HG-203	279.19		77.30	1.19E-01	1.19E-01	1.00E-01	5.62E-02
	BI-207	569.67		97.72	6.68E-02	6.68E-02	1.38E-03	3.08E-02
		1063.62		74.90	1.28E-01		-6.20E-03	5.85E-02
+	TL-208	583.14	*	30.22	3.79E-01	2.14E-01	6.78E-01	1.81E-01
		860.37	*	4.48	1.94E+00		1.40E+00	8.92E-01
		2614.66	*	35.85	2.14E-01		5.19E-01	8.99E-02
	BI-210M	262.00		45.00	1.14E-01	1.14E-01	2.15E-02	5.37E-02
		300.00		23.00	2.69E-01		1.41E-01	1.27E-01
	PB-210	46.50		4.25	2.79E+00	2.79E+00	2.43E+00	1.35E+00
	PB-211	404.84		2.90	1.99E+00	1.99E+00	-9.71E-01	9.24E-01
		831.96		2.90	2.42E+00		3.07E-01	1.09E+00
+	BI-212	727.17	*	11.80	6.56E-01	6.56E-01	5.28E-01	3.02E-01
		1620.62		2.75	3.59E+00		9.92E-01	1.59E+00
+	PB-212	238.63	*	44.60	2.12E-01	2.12E-01	6.59E-01	1.03E-01
		300.09		3.41	1.81E+00		9.50E-01	8.59E-01
+	BI-214	609.31	*	46.30	2.96E-01	2.96E-01	6.78E-01	1.42E-01
		1120.29		15.10	7.87E-01		4.33E-01	3.65E-01
		1764.49	*	15.80	5.14E-01		7.93E-01	2.19E-01
		2204.22		4.98	1.83E+00		3.54E-01	7.87E-01
+	PB-214	295.21	*	19.19	3.03E-01	2.39E-01	8.44E-01	1.43E-01
		351.92	*	37.19	2.39E-01		7.49E-01	1.15E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RN-219	401.80		6.50	8.88E-01	8.88E-01	2.62E-02	4.13E-01
	RA-223	323.87		3.88	1.39E+00	1.39E+00	-5.38E-01	6.52E-01
	RA-224	240.98		3.95	2.64E+00	2.64E+00	6.51E+00	1.29E+00
	RA-225	40.00		31.00	2.54E+00	2.54E+00	-4.58E-01	1.23E+00
+	RA-226	186.21	*	3.28	2.14E+00	2.14E+00	1.17E+00	1.03E+00
	TH-227	50.10		8.40	1.06E+00	6.01E-01	-1.26E-01	5.13E-01
		236.00		11.50	6.01E-01		9.43E-02	2.88E-01
		256.20		6.30	8.19E-01		2.88E-01	3.86E-01
+	AC-228	338.32	*	11.40	6.47E-01	5.53E-01	8.55E-01	3.08E-01
		911.07	*	27.70	5.53E-01		3.05E-01	2.63E-01
		969.11	*	16.60	7.13E-01		5.55E-01	3.33E-01
	TH-230	48.44		16.90	5.57E-01	5.57E-01	-5.66E-01	2.69E-01
		62.85		4.60	1.25E+00		8.05E-01	6.02E-01
		67.67		0.37	1.27E+01		-3.25E-01	6.08E+00
	PA-231	283.67		1.60	3.44E+00	2.47E+00	-2.72E+00	1.62E+00
		302.67		2.30	2.47E+00		-1.50E-01	1.17E+00
	TH-231	25.64		14.70	1.71E+01	6.98E-01	5.54E+00	8.27E+00
		84.21		6.40	6.98E-01		3.30E-01	3.35E-01
	PA-233	311.98		38.60	3.26E-01	3.26E-01	7.80E-02	1.53E-01
	PA-234	131.20		20.40	2.45E-01	2.45E-01	1.39E-01	1.18E-01
		733.99		8.80	8.45E-01		4.08E-01	3.87E-01
		946.00		12.00	6.89E-01		5.74E-02	3.13E-01
	PA-234M	1001.03		0.92	9.66E+00	9.66E+00	5.71E-01	4.40E+00
	TH-234	63.29		3.80	1.50E+00	1.50E+00	9.66E-01	7.23E-01
	U-235	143.76		10.50	4.55E-01	4.55E-01	-2.86E-02	2.18E-01
		163.35		4.70	1.01E+00		-6.32E-01	4.84E-01
		205.31		4.70	1.17E+00		5.60E-02	5.56E-01
	NP-237	86.50		12.60	4.73E-01	4.73E-01	3.98E-01	2.30E-01
	NP-239	106.10		22.70	2.31E+03	2.31E+03	-4.27E+02	1.11E+03
		228.18		10.70	6.35E+03		3.46E+03	3.02E+03
		277.60		14.10	4.63E+03		-3.58E+03	2.18E+03
	AM-241	59.54		35.90	1.46E-01	1.46E-01	8.75E-02	6.99E-02
	AM-243	74.67		66.00	9.60E-02	9.60E-02	-7.01E-02	4.66E-02
	CM-243	209.75		3.29	1.78E+00	3.80E-01	8.88E-01	8.53E-01
		228.14		10.60	5.22E-01		2.84E-01	2.48E-01
		277.60		14.00	3.80E-01		-2.94E-01	1.79E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1507047-09

FEEBRISID-15 077-080

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-15 077-080

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	1	3	170
9:	528	1077	862	341	689	1601	215	128
17:	98	92	76	85	79	85	87	83
25:	88	76	81	69	75	67	81	72
33:	81	81	71	80	79	95	81	95
41:	87	91	68	81	82	101	144	76
49:	82	92	90	99	68	75	55	65
57:	59	51	51	60	56	39	98	96
65:	66	51	62	63	53	64	48	62
73:	77	84	176	120	191	173	47	67
81:	52	53	62	59	80	58	90	83
89:	58	86	76	50	106	71	47	49
97:	35	32	47	44	28	28	43	36
105:	42	30	28	43	35	30	35	44
113:	42	43	34	38	34	35	33	31
121:	34	41	29	39	51	31	25	38
129:	56	37	40	35	43	32	37	40
137:	37	34	47	48	35	32	31	48
145:	36	27	36	56	28	39	51	22
153:	33	45	41	26	33	24	25	42
161:	34	27	34	30	23	34	34	32
169:	34	27	29	35	30	26	29	30
177:	30	19	31	33	33	28	24	31
185:	38	84	47	28	20	31	36	41
193:	31	32	28	31	32	32	29	34
201:	29	32	29	28	32	27	30	23
209:	44	36	28	32	24	12	25	31
217:	25	25	32	17	26	25	18	19
225:	22	33	17	26	26	26	18	24
233:	27	28	26	20	25	96	246	49
241:	38	75	37	23	16	17	20	16
249:	21	17	17	15	16	16	16	21
257:	18	23	15	18	17	23	18	14
265:	17	20	23	19	30	38	33	23
273:	14	12	25	11	19	24	16	19
281:	25	13	18	17	28	17	27	21
289:	28	18	18	14	12	27	92	81
297:	16	20	21	27	25	17	17	12
305:	20	14	18	13	18	21	15	16
313:	13	17	12	20	15	12	14	18
321:	20	18	13	14	21	8	17	30
329:	24	19	17	16	20	16	16	10
337:	10	47	40	12	15	17	11	8
345:	11	10	13	12	17	19	53	140
353:	56	13	11	11	12	9	10	16
361:	14	4	10	16	8	16	16	17

369:	13	10	21	14	10	9	13	12

Sample Title: FEEBRISID-15 077-080

Channel								
377:	13	13	4	12	20	12	15	12
385:	13	18	12	16	13	15	11	12
393:	18	10	10	8	14	10	11	11
401:	8	19	13	11	13	10	14	14
409:	20	8	16	9	12	15	14	9
417:	10	9	13	17	5	10	15	8
425:	10	13	9	11	10	5	11	11
433:	10	8	8	13	9	14	10	10
441:	11	7	13	10	16	7	3	10
449:	8	9	5	4	9	9	12	6
457:	11	11	13	13	16	17	23	13
465:	7	5	13	10	10	7	3	10
473:	6	10	7	8	10	15	7	5
481:	12	10	13	8	2	5	18	10
489:	12	8	12	9	5	10	10	9
497:	11	8	10	9	16	9	10	6
505:	9	11	9	8	21	40	49	31
513:	18	5	3	11	12	7	12	8
521:	7	7	2	2	8	12	1	6
529:	5	6	3	13	4	10	8	11
537:	7	8	11	4	12	6	8	12
545:	7	7	6	5	7	9	5	3
553:	7	7	8	3	3	9	6	11
561:	10	6	9	13	5	8	19	7
569:	3	12	6	13	8	4	11	3
577:	10	9	8	10	10	21	65	49
585:	10	10	5	9	7	10	7	9
593:	11	5	6	6	6	11	13	6
601:	5	11	3	8	11	8	13	23
609:	98	76	8	6	9	6	11	6
617:	10	9	5	11	9	4	8	8
625:	9	4	5	4	4	7	5	5
633:	5	9	7	10	6	6	5	10
641:	7	4	7	5	8	5	6	9
649:	6	10	8	6	2	6	7	8
657:	3	5	10	7	14	15	7	10
665:	6	6	6	5	6	1	13	3
673:	5	6	4	7	3	4	5	4
681:	4	5	7	9	1	5	6	4
689:	7	5	9	11	7	11	12	7
697:	7	6	6	8	5	9	9	10
705:	9	8	7	8	2	5	6	2
713:	8	5	6	8	4	7	6	6
721:	6	3	5	6	3	7	22	13
729:	6	3	5	5	6	10	7	5
737:	3	3	3	5	7	5	9	5
745:	6	6	5	1	7	5	2	2
753:	3	3	8	5	4	6	6	7
761:	3	8	10	8	8	8	8	16
769:	8	8	6	5	7	3	5	6
777:	6	2	5	4	4	12	4	9
785:	8	11	2	9	8	7	6	2
793:	9	6	18	6	2	6	4	6

801:	4	2	4	8	1	5	3	7

Sample Title: FEEBRISID-15 077-080

Channel								
809:	4	1	3	8	3	4	5	8
817:	4	6	10	7	1	6	5	4
825:	10	3	0	4	4	5	3	4
833:	3	3	7	5	5	3	6	10
841:	9	6	6	7	4	4	3	5
849:	8	4	6	4	8	6	6	6
857:	5	3	9	9	21	4	4	7
865:	2	3	3	0	1	2	5	3
873:	4	3	5	7	6	8	6	2
881:	8	4	7	5	5	5	4	5
889:	12	5	8	3	3	7	3	6
897:	8	5	4	6	9	3	5	5
905:	7	9	7	5	6	14	30	18
913:	2	4	1	8	6	3	4	6
921:	3	4	3	6	8	4	3	2
929:	5	3	6	1	3	10	5	5
937:	2	0	1	5	3	3	4	5
945:	4	4	5	6	5	2	9	3
953:	6	3	3	4	6	4	3	5
961:	0	2	6	9	11	9	5	17
969:	21	12	4	3	1	3	3	5
977:	4	4	5	2	2	2	4	1
985:	4	5	3	4	3	0	3	3
993:	3	2	3	6	9	7	1	7
1001:	5	3	4	8	4	1	6	2
1009:	3	8	3	4	5	5	3	2
1017:	1	3	3	7	5	1	5	5
1025:	3	5	4	2	2	2	2	4
1033:	3	4	2	3	2	3	1	5
1041:	3	7	6	4	3	2	2	1
1049:	4	7	5	3	5	3	5	3
1057:	7	7	4	7	7	3	3	6
1065:	5	6	7	4	4	5	5	3
1073:	3	5	5	7	6	5	6	4
1081:	2	3	6	6	3	2	3	3
1089:	2	2	2	5	7	4	6	4
1097:	3	4	8	5	5	1	4	6
1105:	5	7	3	2	4	5	3	2
1113:	3	5	4	4	3	2	10	18
1121:	13	4	4	6	5	3	6	4
1129:	5	2	2	5	2	3	4	2
1137:	5	6	6	4	2	6	2	1
1145:	1	3	3	1	5	3	2	3
1153:	2	4	11	4	0	5	4	3
1161:	2	7	3	1	3	3	0	0
1169:	3	5	4	6	8	4	3	2
1177:	5	3	3	7	5	2	4	8
1185:	3	3	3	2	6	4	7	4
1193:	2	5	7	2	1	2	3	4
1201:	5	4	7	2	6	8	2	9
1209:	3	8	2	6	2	3	4	5
1217:	2	5	5	6	6	7	4	6
1225:	7	5	7	7	4	7	7	3

1233:	3	4	5	5	7	11	6	4

Sample Title: FEEBRISID-15 077-080

Channel								
1241:	3	10	8	1	2	7	4	3
1249:	4	3	2	3	4	0	6	6
1257:	3	2	4	5	3	1	4	4
1265:	2	6	2	2	1	3	2	3
1273:	4	2	6	5	4	0	1	3
1281:	5	2	5	1	1	1	3	2
1289:	4	0	1	0	1	0	4	0
1297:	3	1	3	5	1	3	3	3
1305:	3	2	5	1	2	3	2	1
1313:	0	6	3	6	7	0	4	4
1321:	2	1	1	4	2	3	4	2
1329:	3	2	3	4	5	2	2	2
1337:	4	4	2	1	4	2	0	2
1345:	3	3	0	2	4	1	0	1
1353:	4	2	0	3	1	1	3	3
1361:	3	1	1	1	7	2	1	1
1369:	1	1	2	1	3	3	4	1
1377:	6	2	2	3	1	1	1	2
1385:	2	0	4	0	1	2	4	0
1393:	1	2	1	0	1	3	2	2
1401:	3	2	5	0	1	0	4	3
1409:	2	1	0	2	1	2	3	4
1417:	1	1	0	1	1	0	1	1
1425:	1	1	1	0	4	2	1	2
1433:	2	0	2	2	0	0	2	1
1441:	0	0	2	1	2	0	2	0
1449:	2	4	4	3	3	0	2	2
1457:	1	7	21	108	145	48	14	2
1465:	3	1	1	2	1	2	0	0
1473:	1	1	0	2	2	2	0	2
1481:	1	1	0	1	0	1	1	1
1489:	2	1	1	2	3	0	7	1
1497:	1	1	3	0	1	1	0	1
1505:	1	1	2	2	3	3	3	1
1513:	1	0	0	1	1	2	1	3
1521:	0	0	2	1	1	0	2	1
1529:	0	3	1	0	0	1	1	2
1537:	0	1	1	1	0	0	1	1
1545:	2	0	3	1	3	1	0	4
1553:	1	0	0	3	1	1	1	2
1561:	2	0	0	1	0	1	1	1
1569:	1	1	0	1	1	1	0	1
1577:	1	1	0	1	3	2	3	0
1585:	1	1	2	3	2	0	1	3
1593:	2	3	1	1	1	0	0	2
1601:	1	0	2	1	0	0	0	0
1609:	1	2	0	0	0	2	1	0
1617:	1	1	4	5	3	2	3	1
1625:	3	0	0	2	1	2	3	0
1633:	1	2	1	0	3	0	0	0
1641:	1	0	1	1	4	1	1	3
1649:	0	1	0	0	1	2	0	1
1657:	0	1	0	0	2	4	2	1

1665:	1	1	2	1	0	1	3	1

Sample Title: FEEBRISID-15 077-080

Channel								
1673:	0	0	0	0	0	0	2	2
1681:	0	1	2	1	0	1	0	0
1689:	0	0	1	1	0	0	1	1
1697:	0	0	1	0	0	0	1	1
1705:	0	0	2	0	0	1	0	0
1713:	1	0	1	0	0	0	0	0
1721:	1	2	0	0	0	1	1	4
1729:	3	1	1	1	0	0	0	0
1737:	0	0	0	0	0	1	0	2
1745:	2	1	0	0	0	0	0	2
1753:	2	0	0	0	0	1	0	1
1761:	1	1	3	15	7	8	2	0
1769:	1	1	0	2	1	0	0	3
1777:	0	0	1	2	0	0	0	2
1785:	0	2	0	0	2	0	0	0
1793:	1	0	3	1	0	0	0	1
1801:	0	0	0	0	0	1	0	1
1809:	2	1	1	1	1	1	2	3
1817:	2	1	0	2	0	3	1	1
1825:	1	1	0	0	4	1	0	1
1833:	1	0	0	2	1	0	0	0
1841:	1	3	0	1	1	3	1	2
1849:	0	0	1	2	2	2	1	0
1857:	4	0	1	4	1	1	0	0
1865:	0	0	0	0	0	1	0	1
1873:	2	1	0	0	0	1	3	2
1881:	1	3	0	0	0	0	1	1
1889:	0	0	1	0	1	1	2	0
1897:	1	0	1	1	1	2	2	2
1905:	1	0	1	0	0	1	1	2
1913:	2	0	1	0	2	2	0	3
1921:	1	0	0	0	1	1	1	0
1929:	1	1	1	1	0	3	0	1
1937:	1	0	0	1	0	0	1	0
1945:	0	1	2	1	2	0	2	1
1953:	1	1	1	1	0	0	1	0
1961:	0	0	1	2	1	0	2	0
1969:	1	0	1	0	0	0	1	1
1977:	0	1	0	1	0	0	1	1
1985:	0	1	0	1	0	0	0	0
1993:	2	2	3	0	1	2	1	0
2001:	0	0	1	0	0	0	0	1
2009:	1	0	0	0	0	0	1	1
2017:	2	0	1	1	0	0	0	1
2025:	3	0	0	1	0	1	1	2
2033:	2	1	2	0	2	1	0	0
2041:	0	1	0	2	0	3	1	0
2049:	1	0	1	1	0	0	2	1
2057:	1	0	0	0	0	1	0	2
2065:	1	0	0	0	0	1	0	0
2073:	0	0	0	0	1	0	0	1
2081:	0	1	1	0	0	2	0	0
2089:	1	0	0	1	0	0	0	0

2097:	0	0	3	1	0	0	3	1

Sample Title: FEEBRISID-15 077-080

Channel								
2105:	1	0	3	0	0	2	0	1
2113:	0	1	0	1	1	0	2	1
2121:	2	0	0	0	1	0	1	0
2129:	1	0	1	1	2	0	1	0
2137:	0	0	1	1	0	0	1	0
2145:	0	1	4	0	0	2	0	0
2153:	1	1	0	0	0	1	0	1
2161:	0	0	1	1	0	0	0	0
2169:	0	1	0	0	1	0	0	0
2177:	0	0	0	0	0	1	0	0
2185:	1	0	4	2	1	2	0	1
2193:	2	1	0	0	0	0	0	0
2201:	1	0	4	3	0	3	2	0
2209:	2	2	2	1	2	1	1	0
2217:	3	0	0	0	0	0	2	0
2225:	0	0	0	0	0	1	1	1
2233:	1	0	1	0	1	0	0	1
2241:	0	0	0	2	1	0	0	2
2249:	0	1	1	2	1	2	0	0
2257:	2	1	0	1	1	0	0	0
2265:	2	0	0	1	2	0	0	0
2273:	0	1	0	1	0	1	1	0
2281:	0	1	0	0	1	0	1	1
2289:	0	1	1	0	1	0	1	1
2297:	1	1	2	0	0	0	0	0
2305:	0	0	1	0	0	0	0	0
2313:	2	0	1	0	2	0	0	0
2321:	0	1	2	1	1	2	1	2
2329:	3	0	1	0	0	0	0	0
2337:	2	0	1	1	1	3	1	1
2345:	0	0	1	0	1	3	0	1
2353:	0	2	1	0	0	1	0	1
2361:	0	0	1	0	1	0	0	1
2369:	0	1	1	1	1	0	0	1
2377:	2	0	0	0	0	2	0	1
2385:	0	0	0	2	1	2	1	0
2393:	0	1	1	0	2	0	0	0
2401:	0	1	1	1	0	1	0	1
2409:	0	1	0	0	1	1	1	2
2417:	0	0	0	0	0	1	1	2
2425:	1	0	1	0	0	0	0	0
2433:	0	0	0	0	0	2	0	0
2441:	0	1	0	1	1	1	2	0
2449:	2	1	0	0	0	1	1	0
2457:	0	1	0	0	0	0	0	0
2465:	1	1	0	1	0	2	0	0
2473:	1	0	0	0	1	0	0	1
2481:	0	2	0	1	0	1	0	0
2489:	0	1	0	0	0	1	0	0
2497:	1	0	0	0	0	1	0	1
2505:	0	0	0	0	0	0	0	0
2513:	1	0	0	1	0	1	0	0
2521:	0	0	0	1	1	0	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-15 077-080

Channel								
2537:	0	0	0	0	1	0	0	1
2545:	1	0	0	1	0	0	0	0
2553:	0	0	0	0	0	0	1	0
2561:	0	0	0	0	0	0	0	0
2569:	0	1	0	0	0	0	0	0
2577:	0	0	0	2	0	1	1	0
2585:	0	0	0	0	0	0	0	0
2593:	0	1	1	0	0	1	1	0
2601:	0	1	0	0	0	0	1	1
2609:	0	1	1	3	11	12	14	2
2617:	3	2	1	0	0	0	0	0
2625:	0	0	0	0	0	1	0	0
2633:	1	0	0	0	0	1	1	0
2641:	0	0	0	0	1	0	1	0
2649:	0	0	1	1	0	0	1	1
2657:	1	0	0	1	0	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	0	1	1	0	0	0
2681:	2	0	0	0	0	0	0	0
2689:	0	2	0	0	0	0	0	0
2697:	0	0	0	0	1	0	1	1
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	1	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	1	0	1
2737:	0	0	1	0	0	0	0	1
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	0	1	0	0
2761:	1	0	0	1	0	0	0	0
2769:	0	0	1	0	1	0	0	0
2777:	1	1	1	1	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	3	0	1	0	1	0	0	0
2809:	0	0	1	0	0	0	0	0
2817:	1	0	0	0	0	0	0	0
2825:	0	0	0	0	1	0	0	0
2833:	0	0	0	0	0	0	1	0
2841:	0	0	0	0	1	0	0	1
2849:	1	0	0	1	0	0	1	0
2857:	0	0	0	0	1	0	0	0
2865:	0	2	0	0	0	2	0	0
2873:	1	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	1
2889:	0	0	0	0	1	0	0	0
2897:	0	0	1	1	0	0	0	0
2905:	0	1	0	0	0	0	1	1
2913:	0	1	0	0	2	1	1	0
2921:	0	1	1	0	1	0	0	0
2929:	1	0	0	0	1	0	0	0
2937:	1	0	1	0	1	0	0	0
2945:	0	1	0	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	1	0	0	0	0

Sample Title: FEEBRISID-15 077-080

Channel							
2969:	0	1	0	1	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	1	0	1	1	0	1	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	2	0	0	0
3033:	0	0	0	0	1	0	1	2
3041:	1	1	1	1	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	1	0	0	0	0	0	0	1
3073:	1	0	0	0	0	0	0	1
3081:	0	0	0	0	0	0	0	1
3089:	0	1	0	0	0	0	0	0
3097:	0	1	1	1	0	0	1	0
3105:	0	0	0	0	0	0	0	1
3113:	0	0	0	0	0	0	0	0
3121:	0	1	0	0	1	0	2	0
3129:	2	0	1	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	1	0	0	0	0	0
3153:	1	1	1	0	0	0	0	0
3161:	0	0	0	0	0	0	1	0
3169:	1	0	0	0	0	0	0	0
3177:	0	0	1	0	0	1	0	0
3185:	0	0	0	0	0	0	0	1
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	2	0	0
3209:	1	0	0	0	0	1	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	1	0	0	0	0	0
3233:	2	0	0	0	0	0	0	1
3241:	0	0	0	0	0	0	0	0
3249:	0	0	1	0	0	0	0	1
3257:	1	1	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	0	0	1	1	0	0	0	0
3281:	2	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	1
3297:	0	0	0	0	0	1	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	1	0	0	0	0	0	1
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	1	1	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	1	2	0	1	0
3361:	1	0	1	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	1	0	0	0	0
3385:	0	0	0	1	0	0	0	1

3393:	0	0	0	0	0	1	1	0

Sample Title: FEEBRISID-15 077-080

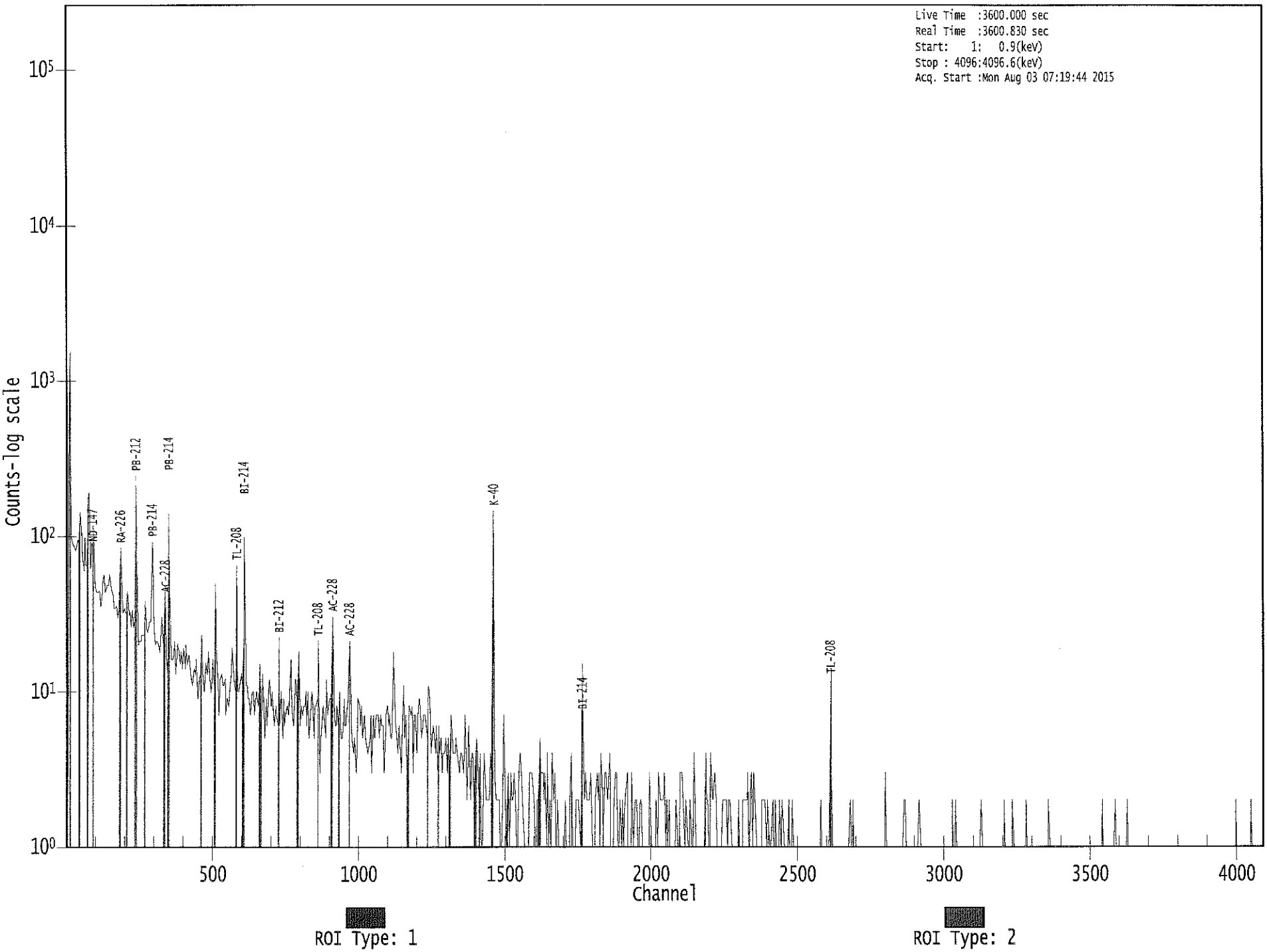
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	1	0	0	0	0	0	0	1
3425:	0	0	0	0	0	1	1	0
3433:	0	1	0	0	0	1	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	1	0	0
3457:	0	0	0	1	0	0	0	0
3465:	0	0	1	0	0	0	0	0
3473:	0	0	1	0	0	0	0	1
3481:	0	0	0	1	0	1	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	1
3513:	0	0	1	0	0	0	1	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	2	0	0
3545:	0	0	0	0	1	0	0	0
3553:	0	0	0	0	0	1	0	0
3561:	0	0	0	0	1	0	0	0
3569:	0	1	0	0	0	0	0	0
3577:	0	0	0	0	1	0	0	0
3585:	0	0	2	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	1	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	1	1	0	0	0	0	1
3625:	0	0	2	1	0	0	0	0
3633:	0	0	0	0	0	1	0	0
3641:	0	0	0	0	0	0	0	0
3649:	1	0	0	0	1	0	0	0
3657:	1	0	0	0	0	0	0	0
3665:	0	0	0	1	0	0	1	0
3673:	0	1	0	0	0	1	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	1	0	0
3697:	0	0	0	0	0	0	0	1
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	1	0	0	0	0	0	0
3729:	0	0	0	0	0	0	1	0
3737:	0	0	0	0	0	0	1	0
3745:	0	1	0	1	0	0	0	0
3753:	0	0	0	0	0	0	1	0
3761:	0	0	0	0	0	0	0	0
3769:	0	1	0	0	0	0	1	0
3777:	0	0	1	0	0	0	0	0
3785:	0	0	0	0	1	1	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	1	0	0	1	0

3825:	0	1	0	1	0	0	0	0

Sample Title: FEEBRISID-15 077-080

Channel								
3833:	0	0	0	0	0	0	1	1
3841:	0	0	0	0	0	0	1	0
3849:	0	0	1	0	0	0	0	0
3857:	0	0	0	0	0	1	1	0
3865:	0	0	0	0	1	0	0	1
3873:	0	0	0	0	0	0	0	0
3881:	1	0	0	1	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	1	1	0	1	0	0	0	1
3953:	0	0	0	0	1	0	0	1
3961:	0	0	0	0	0	0	0	0
3969:	0	0	1	0	0	1	0	0
3977:	0	0	1	0	0	0	0	0
3985:	0	0	1	0	0	0	0	0
3993:	0	0	0	0	2	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	1	1	1	1	0	0	1
4049:	2	0	0	0	0	0	0	0
4057:	1	0	0	0	0	0	0	0
4065:	0	0	0	1	1	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025455.CNF



Apex-Gamma

Analysis Report for 1507047-10
FEEBRISID-15 085-086

C
817

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-10
Sample Description	: FEEBRISID-15 085-086
Sample Type	: SOIL
Sample Size	: 3.949E+02 grams
Facility	: Countroom
Sample Taken On	: 7/2/2015 7:54:48AM
Acquisition Started	: 8/3/2015 7:19:52AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3615.5 seconds
Dead Time	: 0.43 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25456

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/3/15

Analysis Report for 1507047-10

FEEBRISID-15 085-086

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 8:20:15AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	15.42	15.67	0.0000	0.00
2	27.30	27.55	0.0000	0.00
3	46.62	46.85	0.0000	0.00
4	49.92	50.15	0.0000	0.00
5	67.80	68.02	0.0000	0.00
6	76.41	76.63	0.0000	0.00
7	80.86	81.07	0.0000	0.00
8	83.65	83.87	0.0000	0.00
9	87.67	87.88	0.0000	0.00
10	93.98	94.19	0.0000	0.00
11	97.28	97.49	0.0000	0.00
12	143.91	144.09	0.0000	0.00
13	154.29	154.46	0.0000	0.00
14	186.05	186.21	0.0000	0.00
15	236.04	236.17	0.0000	0.00
16	242.05	242.17	0.0000	0.00
17	256.49	256.61	0.0000	0.00
18	270.78	270.89	0.0000	0.00
19	295.38	295.48	0.0000	0.00
20	301.12	301.22	0.0000	0.00
21	313.85	313.94	0.0000	0.00
22	329.89	329.97	0.0000	0.00
23	352.08	352.15	0.0000	0.00
24	403.35	403.40	0.0000	0.00
25	422.40	422.43	0.0000	0.00
26	427.78	427.81	0.0000	0.00
27	433.08	433.11	0.0000	0.00
28	445.78	445.81	0.0000	0.00
29	511.61	511.60	0.0000	0.00
30	545.71	545.68	0.0000	0.00
31	605.70	605.64	0.0000	0.00
32	609.55	609.50	0.0000	0.00
33	666.02	665.94	0.0000	0.00
34	768.68	768.54	0.0000	0.00
35	786.79	786.65	0.0000	0.00
36	832.70	832.54	0.0000	0.00
37	838.96	838.80	0.0000	0.00
38	913.72	913.53	0.0000	0.00
39	929.99	929.78	0.0000	0.00
40	933.99	933.78	0.0000	0.00
41	1120.56	1120.28	0.0000	0.00
42	1155.24	1154.94	0.0000	0.00

Analysis Report for 1507047-10

FEEBRISID-15 085-086

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1238.32	1237.99	0.0000	0.00
44	1281.97	1281.62	0.0000	0.00
45	1377.85	1377.46	0.0000	0.00
46	1385.98	1385.59	0.0000	0.00
47	1405.52	1405.12	0.0000	0.00
48	1461.59	1461.17	0.0000	0.00
49	1505.72	1505.28	0.0000	0.00
50	1509.39	1508.96	0.0000	0.00
51	1583.64	1583.17	0.0000	0.00
52	1658.49	1658.00	0.0000	0.00
53	1666.91	1666.41	0.0000	0.00
54	1729.67	1729.15	0.0000	0.00
55	1764.86	1764.33	0.0000	0.00
56	1838.65	1838.10	0.0000	0.00
57	1847.95	1847.39	0.0000	0.00
58	1899.85	1899.27	0.0000	0.00
59	1960.93	1960.33	0.0000	0.00
60	2118.38	2117.74	0.0000	0.00
61	2204.68	2204.01	0.0000	0.00
62	2447.17	2446.44	0.0000	0.00
63	2614.81	2614.03	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-10

FEEBRISID-15 085-086

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:20:15AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	15.42	14 -	18	15.67	3.89E+02	114.89	2.57E+03	1.56
	2	27.30	25 -	30	27.55	1.06E+02	90.35	1.53E+03	1.76
M	3	46.62	43 -	52	46.85	5.46E+02	96.73	1.62E+03	1.60
m	4	49.92	43 -	52	50.15	1.17E+02	90.27	1.78E+03	1.61
	5	67.80	65 -	71	68.02	1.10E+03	159.39	3.78E+03	1.26
M	6	76.41	72 -	100	76.63	2.50E+03	197.25	4.36E+03	3.23
m	7	80.86	72 -	100	81.07	5.35E+02	168.25	3.13E+03	2.60
m	8	83.65	72 -	100	83.87	8.48E+02	139.89	2.59E+03	2.29
m	9	87.67	72 -	100	87.88	7.85E+02	178.00	3.38E+03	3.28
m	10	93.98	72 -	100	94.19	4.14E+02	139.18	2.43E+03	2.73
m	11	97.28	72 -	100	97.49	8.41E+01	136.54	2.33E+03	2.71
	12	143.91	139 -	148	144.09	2.75E+02	141.07	2.69E+03	1.87
	13	154.29	151 -	158	154.46	1.16E+02	115.08	2.13E+03	1.95
	14	186.05	182 -	190	186.21	5.75E+02	118.61	1.81E+03	1.99
M	15	236.04	232 -	246	236.17	2.47E+02	65.46	7.31E+02	1.76
m	16	242.05	232 -	246	242.17	6.66E+02	83.98	8.39E+02	1.89
	17	256.49	253 -	260	256.61	1.10E+02	85.51	1.14E+03	1.21
	18	270.78	265 -	280	270.89	5.50E+02	131.70	1.52E+03	3.61
	19	295.38	292 -	298	295.48	1.28E+03	95.24	7.22E+02	1.96
	20	301.12	299 -	305	301.22	1.35E+02	62.62	5.95E+02	3.79
	21	313.85	311 -	317	313.94	4.30E+01	53.54	4.90E+02	3.41
	22	329.89	327 -	333	329.97	5.00E+01	59.97	6.20E+02	1.37
	23	352.08	347 -	356	352.15	2.28E+03	121.04	7.90E+02	1.68
	24	403.35	398 -	408	403.40	1.56E+02	74.94	6.67E+02	2.14
	25	422.40	420 -	425	422.43	4.93E+01	42.77	3.25E+02	3.41
M	26	427.78	425 -	435	427.81	5.44E+01	40.62	3.09E+02	2.51
m	27	433.08	425 -	435	433.11	4.13E+01	32.86	1.79E+02	2.25
	28	445.78	442 -	449	445.81	4.65E+01	46.26	3.13E+02	3.49
	29	511.61	507 -	517	511.60	1.39E+02	51.82	2.79E+02	3.69
	30	545.71	541 -	550	545.68	5.37E+01	41.81	2.17E+02	6.23
M	31	605.70	604 -	615	605.64	2.57E+01	13.45	4.81E+01	2.16
m	32	609.55	604 -	615	609.50	1.54E+03	82.38	1.33E+02	1.71
m	33	666.02	660 -	672	665.94	5.04E+01	29.68	1.20E+02	2.24
	34	768.68	764 -	771	768.54	1.52E+02	38.42	1.46E+02	1.94
	35	786.79	781 -	792	786.65	4.65E+01	42.47	1.97E+02	2.61
M	36	832.70	829 -	841	832.54	2.55E+01	25.20	1.15E+02	3.43
m	37	838.96	829 -	841	838.80	3.24E+01	25.20	9.22E+01	2.56
	38	913.72	909 -	919	913.53	3.53E+01	40.26	1.95E+02	5.56
M	39	929.99	927 -	938	929.78	1.92E+01	18.57	6.57E+01	2.40
m	40	933.99	927 -	938	933.78	9.87E+01	29.58	9.47E+01	2.40

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1120.56	1114 -	1126	1120.28	2.95E+02	51.13	1.68E+02	2.23
	42	1155.24	1151 -	1159	1154.94	3.34E+01	26.63	8.51E+01	2.37
	43	1238.32	1233 -	1241	1237.99	1.22E+02	29.52	5.94E+01	2.73
	44	1281.97	1278 -	1285	1281.62	2.03E+01	23.15	7.53E+01	3.06
	45	1377.85	1372 -	1382	1377.46	1.03E+02	30.81	7.14E+01	1.91
	46	1385.98	1383 -	1389	1385.59	1.71E+01	18.86	5.17E+01	3.32
	47	1405.52	1397 -	1411	1405.12	6.31E+01	34.34	9.77E+01	7.16
	48	1461.59	1458 -	1465	1461.17	5.02E+01	21.45	4.15E+01	1.79
M	49	1505.72	1503 -	1520	1505.28	1.25E+01	13.21	3.24E+01	3.53
m	50	1509.39	1503 -	1520	1508.96	3.92E+01	22.51	4.68E+01	2.95
	51	1583.64	1580 -	1586	1583.17	1.15E+01	13.93	2.50E+01	1.56
M	52	1658.49	1656 -	1672	1658.00	1.35E+01	6.84	5.73E+00	2.49
m	53	1666.91	1656 -	1672	1666.41	1.65E+01	14.39	1.27E+01	3.32
	54	1729.67	1724 -	1734	1729.15	5.83E+01	17.79	1.14E+01	1.44
	55	1764.86	1758 -	1769	1764.33	2.51E+02	33.17	1.25E+01	2.42
	56	1838.65	1835 -	1841	1838.10	1.41E+01	9.62	5.88E+00	2.72
	57	1847.95	1844 -	1852	1847.39	4.42E+01	14.43	5.53E+00	3.38
	58	1899.85	1895 -	1903	1899.27	1.10E+01	6.63	0.00E+00	3.22
	59	1960.93	1957 -	1963	1960.33	7.91E+00	8.28	6.18E+00	2.65
	60	2118.38	2113 -	2122	2117.74	1.87E+01	10.44	4.57E+00	2.40
	61	2204.68	2199 -	2207	2204.01	7.20E+01	17.78	3.97E+00	2.13
	62	2447.17	2442 -	2450	2446.44	1.60E+01	8.00	0.00E+00	5.39
	63	2614.81	2610 -	2618	2614.03	1.45E+01	10.79	9.00E+00	3.14

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 8:20:15AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	15.42	14 -	18	3.89E+02	114.89	2.57E+03	8.87E+01
	2	27.30	25 -	30	1.06E+02	90.35	1.53E+03	7.23E+01
M	3	46.62	43 -	52	5.46E+02	96.73	1.62E+03	6.62E+01
m	4	49.92	43 -	52	1.17E+02	90.27	1.78E+03	6.94E+01
	5	67.80	65 -	71	1.10E+03	159.39	3.78E+03	1.19E+02

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	6	76.41	72 -	100	2.50E+03	197.25	4.36E+03	1.09E+02
m	7	80.86	72 -	100	5.35E+02	168.25	3.13E+03	9.19E+01
m	8	83.65	72 -	100	8.48E+02	139.89	2.59E+03	8.37E+01
m	9	87.67	72 -	100	7.85E+02	178.00	3.38E+03	9.56E+01
m	10	93.98	72 -	100	4.14E+02	139.18	2.43E+03	8.11E+01
m	11	97.28	72 -	100	8.41E+01	136.54	2.33E+03	7.93E+01
	12	143.91	139 -	148	2.75E+02	141.07	2.69E+03	1.13E+02
	13	154.29	151 -	158	1.16E+02	115.08	2.13E+03	9.29E+01
	14	186.05	182 -	190	5.75E+02	118.61	1.81E+03	8.92E+01
M	15	236.04	232 -	246	2.47E+02	65.46	7.31E+02	4.45E+01
m	16	242.05	232 -	246	6.66E+02	83.98	8.39E+02	4.76E+01
	17	256.49	253 -	260	1.10E+02	85.51	1.14E+03	6.82E+01
	18	270.78	265 -	280	5.50E+02	131.70	1.52E+03	1.01E+02
	19	295.38	292 -	298	1.28E+03	95.24	7.22E+02	5.18E+01
	20	301.12	299 -	305	1.35E+02	62.62	5.95E+02	4.78E+01
	21	313.85	311 -	317	4.30E+01	53.54	4.90E+02	4.27E+01
	22	329.89	327 -	333	5.00E+01	59.97	6.20E+02	4.79E+01
	23	352.08	347 -	356	2.28E+03	121.04	7.90E+02	6.11E+01
	24	403.35	398 -	408	1.56E+02	74.94	6.67E+02	5.81E+01
	25	422.40	420 -	425	4.93E+01	42.77	3.25E+02	3.32E+01
M	26	427.78	425 -	435	5.44E+01	40.62	3.09E+02	2.89E+01
m	27	433.08	425 -	435	4.13E+01	32.86	1.79E+02	2.20E+01
	28	445.78	442 -	449	4.65E+01	46.26	3.13E+02	3.63E+01
	29	511.61	507 -	517	1.39E+02	51.82	2.79E+02	3.79E+01
	30	545.71	541 -	550	5.37E+01	41.81	2.17E+02	3.22E+01
M	31	605.70	604 -	615	2.57E+01	13.45	4.81E+01	1.14E+01
m	32	609.55	604 -	615	1.54E+03	82.38	1.33E+02	1.89E+01
m	33	666.02	660 -	672	5.04E+01	29.68	1.20E+02	1.80E+01
	34	768.68	764 -	771	1.52E+02	38.42	1.46E+02	2.42E+01
	35	786.79	781 -	792	4.65E+01	42.47	1.97E+02	3.31E+01
M	36	832.70	829 -	841	2.55E+01	25.20	1.15E+02	1.77E+01
m	37	838.96	829 -	841	3.24E+01	25.20	9.22E+01	1.58E+01
	38	913.72	909 -	919	3.53E+01	40.26	1.95E+02	3.16E+01
M	39	929.99	927 -	938	1.92E+01	18.57	6.57E+01	1.33E+01
m	40	933.99	927 -	938	9.87E+01	29.58	9.47E+01	1.60E+01
	41	1120.56	1114 -	1126	2.95E+02	51.13	1.68E+02	3.11E+01
	42	1155.24	1151 -	1159	3.34E+01	26.63	8.51E+01	1.97E+01
	43	1238.32	1233 -	1241	1.22E+02	29.52	5.94E+01	1.61E+01
	44	1281.97	1278 -	1285	2.03E+01	23.15	7.53E+01	1.75E+01
	45	1377.85	1372 -	1382	1.03E+02	30.81	7.14E+01	1.90E+01
	46	1385.98	1383 -	1389	1.71E+01	18.86	5.17E+01	1.39E+01
	47	1405.52	1397 -	1411	6.31E+01	34.34	9.77E+01	2.50E+01
	48	1461.59	1458 -	1465	5.02E+01	21.45	4.15E+01	1.32E+01
M	49	1505.72	1503 -	1520	1.25E+01	13.21	3.24E+01	9.36E+00
m	50	1509.39	1503 -	1520	3.92E+01	22.51	4.68E+01	1.12E+01
	51	1583.64	1580 -	1586	1.15E+01	13.93	2.50E+01	1.00E+01
M	52	1658.49	1656 -	1672	1.35E+01	6.84	5.73E+00	3.94E+00
m	53	1666.91	1656 -	1672	1.65E+01	14.39	1.27E+01	5.86E+00
	54	1729.67	1724 -	1734	5.83E+01	17.79	1.14E+01	7.51E+00
	55	1764.86	1758 -	1769	2.51E+02	33.17	1.25E+01	8.09E+00
	56	1838.65	1835 -	1841	1.41E+01	9.62	5.88E+00	4.95E+00

Analysis Report for 1507047-10

FEEBRISID-15 085-086

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
57	1847.95	1844 -	1852	4.42E+01	14.43	5.53E+00	4.60E+00
58	1899.85	1895 -	1903	1.10E+01	6.63	0.00E+00	0.00E+00
59	1960.93	1957 -	1963	7.91E+00	8.28	6.18E+00	4.99E+00
60	2118.38	2113 -	2122	1.87E+01	10.44	4.57E+00	4.80E+00
61	2204.68	2199 -	2207	7.20E+01	17.78	3.97E+00	4.36E+00
62	2447.17	2442 -	2450	1.60E+01	8.00	0.00E+00	0.00E+00
63	2614.81	2610 -	2618	1.45E+01	10.79	9.00E+00	6.29E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 8:20:15AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	15.42	14 -	18	15.67	3.89E+02	114.89	2.57E+03	.....
	2	27.30	25 -	30	27.55	1.06E+02	90.35	1.53E+03	.....
M	3	46.62	43 -	52	46.85	5.46E+02	96.73	1.62E+03	PB-210
m	4	49.92	43 -	52	50.15	1.17E+02	90.27	1.78E+03	TH-227
									TE-132
	5	67.80	65 -	71	68.02	1.10E+03	159.39	3.78E+03	TA-182
									TI-44
									TH-230
M	6	76.41	72 -	100	76.63	2.50E+03	197.25	4.36E+03	.....
m	7	80.86	72 -	100	81.07	5.35E+02	168.25	3.13E+03	XE-133
									BA-133
									HF-172
m	8	83.65	72 -	100	83.87	8.48E+02	139.89	2.59E+03	TH-231
m	9	87.67	72 -	100	87.88	7.85E+02	178.00	3.38E+03	SN-126
									CD-109
									LU-176
m	10	93.98	72 -	100	94.19	4.14E+02	139.18	2.43E+03	GA-67
m	11	97.28	72 -	100	97.49	8.41E+01	136.54	2.33E+03	GD-153
	12	143.91	139 -	148	144.09	2.75E+02	141.07	2.69E+03	U-235

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	13	154.29	151 -	158	154.46	1.16E+02	115.08	2.13E+03	.....
	14	186.05	182 -	190	186.21	5.75E+02	118.61	1.81E+03	RA-226
M	15	236.04	232 -	246	236.17	2.47E+02	65.46	7.31E+02	TH-227
									NB-95M
m	16	242.05	232 -	246	242.17	6.66E+02	83.98	8.39E+02	.....
	17	256.49	253 -	260	256.61	1.10E+02	85.51	1.14E+03	TH-227
	18	270.78	265 -	280	270.89	5.50E+02	131.70	1.52E+03	.....
	19	295.38	292 -	298	295.48	1.28E+03	95.24	7.22E+02	PB-214
	20	301.12	299 -	305	301.22	1.35E+02	62.62	5.95E+02	GA-67
	21	313.85	311 -	317	313.94	4.30E+01	53.54	4.90E+02	.....
	22	329.89	327 -	333	329.97	5.00E+01	59.97	6.20E+02	.....
	23	352.08	347 -	356	352.15	2.28E+03	121.04	7.90E+02	PB-214
	24	403.35	398 -	408	403.40	1.56E+02	74.94	6.67E+02	.....
	25	422.40	420 -	425	422.43	4.93E+01	42.77	3.25E+02	.....
M	26	427.78	425 -	435	427.81	5.44E+01	40.62	3.09E+02	SB-125
m	27	433.08	425 -	435	433.11	4.13E+01	32.86	1.79E+02	AG-108M
	28	445.78	442 -	449	445.81	4.65E+01	46.26	3.13E+02	.....
	29	511.61	507 -	517	511.60	1.39E+02	51.82	2.79E+02	.....
	30	545.71	541 -	550	545.68	5.37E+01	41.81	2.17E+02	.....
M	31	605.70	604 -	615	605.64	2.57E+01	13.45	4.81E+01	CS-134
m	32	609.55	604 -	615	609.50	1.54E+03	82.38	1.33E+02	BI-214
m	33	666.02	660 -	672	665.94	5.04E+01	29.68	1.20E+02	SB-126
	34	768.68	764 -	771	768.54	1.52E+02	38.42	1.46E+02	.....
	35	786.79	781 -	792	786.65	4.65E+01	42.47	1.97E+02	.....
M	36	832.70	829 -	841	832.54	2.55E+01	25.20	1.15E+02	PB-211
m	37	838.96	829 -	841	838.80	3.24E+01	25.20	9.22E+01	.....
	38	913.72	909 -	919	913.53	3.53E+01	40.26	1.95E+02	.....
M	39	929.99	927 -	938	929.78	1.92E+01	18.57	6.57E+01	.....
m	40	933.99	927 -	938	933.78	9.87E+01	29.58	9.47E+01	.....
	41	1120.56	1114 -	1126	1120.28	2.95E+02	51.13	1.68E+02	SC-46
									BI-214
									TA-182
	42	1155.24	1151 -	1159	1154.94	3.34E+01	26.63	8.51E+01	.....
	43	1238.32	1233 -	1241	1237.99	1.22E+02	29.52	5.94E+01	CO-56
	44	1281.97	1278 -	1285	1281.62	2.03E+01	23.15	7.53E+01	.....
	45	1377.85	1372 -	1382	1377.46	1.03E+02	30.81	7.14E+01	.....
	46	1385.98	1383 -	1389	1385.59	1.71E+01	18.86	5.17E+01	.....
	47	1405.52	1397 -	1411	1405.12	6.31E+01	34.34	9.77E+01	.....
	48	1461.59	1458 -	1465	1461.17	5.02E+01	21.45	4.15E+01	K-40
M	49	1505.72	1503 -	1520	1505.28	1.25E+01	13.21	3.24E+01	.....
m	50	1509.39	1503 -	1520	1508.96	3.92E+01	22.51	4.68E+01	.....
	51	1583.64	1580 -	1586	1583.17	1.15E+01	13.93	2.50E+01	.....
M	52	1658.49	1656 -	1672	1658.00	1.35E+01	6.84	5.73E+00	.....
m	53	1666.91	1656 -	1672	1666.41	1.65E+01	14.39	1.27E+01	.....
	54	1729.67	1724 -	1734	1729.15	5.83E+01	17.79	1.14E+01	.....
	55	1764.86	1758 -	1769	1764.33	2.51E+02	33.17	1.25E+01	BI-214
	56	1838.65	1835 -	1841	1838.10	1.41E+01	9.62	5.88E+00	.....
	57	1847.95	1844 -	1852	1847.39	4.42E+01	14.43	5.53E+00	.....
	58	1899.85	1895 -	1903	1899.27	1.10E+01	6.63	0.00E+00	.....
	59	1960.93	1957 -	1963	1960.33	7.91E+00	8.28	6.18E+00	.....
	60	2118.38	2113 -	2122	2117.74	1.87E+01	10.44	4.57E+00	.....
	61	2204.68	2199 -	2207	2204.01	7.20E+01	17.78	3.97E+00	BI-214
	62	2447.17	2442 -	2450	2446.44	1.60E+01	8.00	0.00E+00	.....
	63	2614.81	2610 -	2618	2614.03	1.45E+01	10.79	9.00E+00	TL-208

Analysis Report for 1507047-10

FEEBRISID-15 085-086

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 8:20:15AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	15.42	3.89E+02	114.89	9.35E-05	1.58E-03
	2	27.30	1.06E+02	90.35	3.34E-03	1.58E-03
M	3	46.62	5.46E+02	96.73	1.51E-02	1.58E-03
m	4	49.92	1.17E+02	90.27	1.68E-02	1.58E-03
	5	67.80	1.10E+03	159.39	2.26E-02	1.86E-03
M	6	76.41	2.50E+03	197.25	2.38E-02	2.14E-03
m	7	80.86	5.35E+02	168.25	2.41E-02	2.29E-03
m	8	83.65	8.48E+02	139.89	2.43E-02	2.38E-03
m	9	87.67	7.85E+02	178.00	2.44E-02	2.51E-03
m	10	93.98	4.14E+02	139.18	2.44E-02	2.39E-03
m	11	97.28	8.41E+01	136.54	2.44E-02	2.31E-03
	12	143.91	2.75E+02	141.07	2.14E-02	1.62E-03
	13	154.29	1.16E+02	115.08	2.06E-02	1.57E-03
	14	186.05	5.75E+02	118.61	1.83E-02	1.42E-03
M	15	236.04	2.47E+02	65.46	1.54E-02	1.19E-03
m	16	242.05	6.66E+02	83.98	1.51E-02	1.17E-03
	17	256.49	1.10E+02	85.51	1.44E-02	1.10E-03
	18	270.78	5.50E+02	131.70	1.38E-02	1.03E-03
	19	295.38	1.28E+03	95.24	1.28E-02	9.74E-04
	20	301.12	1.35E+02	62.62	1.26E-02	9.66E-04
	21	313.85	4.30E+01	53.54	1.22E-02	9.48E-04
	22	329.89	5.00E+01	59.97	1.17E-02	9.25E-04
	23	352.08	2.28E+03	121.04	1.11E-02	8.93E-04
	24	403.35	1.56E+02	74.94	9.84E-03	8.26E-04
	25	422.40	4.93E+01	42.77	9.45E-03	8.07E-04
M	26	427.78	5.44E+01	40.62	9.35E-03	8.01E-04
m	27	433.08	4.13E+01	32.86	9.25E-03	7.96E-04
	28	445.78	4.65E+01	46.26	9.02E-03	7.83E-04
	29	511.61	1.39E+02	51.82	8.00E-03	7.18E-04
	30	545.71	5.37E+01	41.81	7.56E-03	6.84E-04
M	31	605.70	2.57E+01	13.45	6.91E-03	6.24E-04
m	32	609.55	1.54E+03	82.38	6.87E-03	6.20E-04
m	33	666.02	5.04E+01	29.68	6.36E-03	5.64E-04
	34	768.68	1.52E+02	38.42	5.62E-03	4.80E-04

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	35	786.79	4.65E+01	42.47	5.50E-03	4.66E-04
M	36	832.70	2.55E+01	25.20	5.24E-03	4.28E-04
m	37	838.96	3.24E+01	25.20	5.21E-03	4.23E-04
	38	913.72	3.53E+01	40.26	4.84E-03	3.72E-04
M	39	929.99	1.92E+01	18.57	4.77E-03	3.69E-04
m	40	933.99	9.87E+01	29.58	4.75E-03	3.68E-04
	41	1120.56	2.95E+02	51.13	4.08E-03	3.33E-04
	42	1155.24	3.34E+01	26.63	3.97E-03	3.27E-04
	43	1238.32	1.22E+02	29.52	3.75E-03	3.09E-04
	44	1281.97	2.03E+01	23.15	3.65E-03	3.00E-04
	45	1377.85	1.03E+02	30.81	3.45E-03	2.82E-04
	46	1385.98	1.71E+01	18.86	3.43E-03	2.81E-04
	47	1405.52	6.31E+01	34.34	3.39E-03	2.78E-04
	48	1461.59	5.02E+01	21.45	3.29E-03	2.69E-04
M	49	1505.72	1.25E+01	13.21	3.22E-03	2.63E-04
m	50	1509.39	3.92E+01	22.51	3.21E-03	2.62E-04
	51	1583.64	1.15E+01	13.93	3.09E-03	2.51E-04
M	52	1658.49	1.35E+01	6.84	2.99E-03	2.40E-04
m	53	1666.91	1.65E+01	14.39	2.98E-03	2.38E-04
	54	1729.67	5.83E+01	17.79	2.90E-03	2.29E-04
	55	1764.86	2.51E+02	33.17	2.86E-03	2.24E-04
	56	1838.65	1.41E+01	9.62	2.78E-03	2.13E-04
	57	1847.95	4.42E+01	14.43	2.77E-03	2.13E-04
	58	1899.85	1.10E+01	6.63	2.71E-03	2.13E-04
	59	1960.93	7.91E+00	8.28	2.66E-03	2.13E-04
	60	2118.38	1.87E+01	10.44	2.52E-03	2.13E-04
	61	2204.68	7.20E+01	17.78	2.46E-03	2.13E-04
	62	2447.17	1.60E+01	8.00	2.32E-03	2.13E-04
	63	2614.81	1.45E+01	10.79	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 8:20:15AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	15.42	3.89E+02	114.89			3.89E+02	1.15E+02

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	2	27.30	1.06E+02	90.35			1.06E+02	9.03E+01
M	3	46.62	5.46E+02	96.73	5.08E+01	9.30E+00	4.95E+02	9.72E+01
m	4	49.92	1.17E+02	90.27			1.17E+02	9.03E+01
	5	67.80	1.10E+03	159.39			1.10E+03	1.59E+02
M	6	76.41	2.50E+03	197.25			2.50E+03	1.97E+02
m	7	80.86	5.35E+02	168.25			5.35E+02	1.68E+02
m	8	83.65	8.48E+02	139.89	1.09E+01	3.84E+00	8.37E+02	1.40E+02
m	9	87.67	7.85E+02	178.00	1.61E+01	4.76E+00	7.69E+02	1.78E+02
m	10	93.98	4.14E+02	139.18			4.14E+02	1.39E+02
m	11	97.28	8.41E+01	136.54			8.41E+01	1.37E+02
	12	143.91	2.75E+02	141.07	9.45E+00	6.13E+00	2.66E+02	1.41E+02
	13	154.29	1.16E+02	115.08			1.16E+02	1.15E+02
	14	186.05	5.75E+02	118.61	3.41E+01	6.16E+00	5.41E+02	1.19E+02
M	15	236.04	2.47E+02	65.46			2.47E+02	6.55E+01
m	16	242.05	6.66E+02	83.98			6.66E+02	8.40E+01
	17	256.49	1.10E+02	85.51			1.10E+02	8.55E+01
	18	270.78	5.50E+02	131.70			5.50E+02	1.32E+02
	19	295.38	1.28E+03	95.24	2.05E+00	6.38E+00	1.27E+03	9.55E+01
	20	301.12	1.35E+02	62.62			1.35E+02	6.26E+01
	21	313.85	4.30E+01	53.54			4.30E+01	5.35E+01
	22	329.89	5.00E+01	59.97			5.00E+01	6.00E+01
	23	352.08	2.28E+03	121.04	8.85E+00	4.53E+00	2.27E+03	1.21E+02
	24	403.35	1.56E+02	74.94			1.56E+02	7.49E+01
	25	422.40	4.93E+01	42.77			4.93E+01	4.28E+01
M	26	427.78	5.44E+01	40.62			5.44E+01	4.06E+01
m	27	433.08	4.13E+01	32.86			4.13E+01	3.29E+01
	28	445.78	4.65E+01	46.26			4.65E+01	4.63E+01
	29	511.61	1.39E+02	51.82	6.53E+01	5.06E+00	7.34E+01	5.21E+01
	30	545.71	5.37E+01	41.81			5.37E+01	4.18E+01
M	31	605.70	2.57E+01	13.45			2.57E+01	1.35E+01
m	32	609.55	1.54E+03	82.38	8.51E+00	1.93E+00	1.53E+03	8.24E+01
m	33	666.02	5.04E+01	29.68			5.04E+01	2.97E+01
	34	768.68	1.52E+02	38.42			1.52E+02	3.84E+01
	35	786.79	4.65E+01	42.47			4.65E+01	4.25E+01
M	36	832.70	2.55E+01	25.20			2.55E+01	2.52E+01
m	37	838.96	3.24E+01	25.20			3.24E+01	2.52E+01
	38	913.72	3.53E+01	40.26			3.53E+01	4.03E+01
M	39	929.99	1.92E+01	18.57			1.92E+01	1.86E+01
m	40	933.99	9.87E+01	29.58			9.87E+01	2.96E+01
	41	1120.56	2.95E+02	51.13			2.95E+02	5.11E+01
	42	1155.24	3.34E+01	26.63			3.34E+01	2.66E+01
	43	1238.32	1.22E+02	29.52			1.22E+02	2.95E+01
	44	1281.97	2.03E+01	23.15			2.03E+01	2.32E+01
	45	1377.85	1.03E+02	30.81			1.03E+02	3.08E+01
	46	1385.98	1.71E+01	18.86			1.71E+01	1.89E+01
	47	1405.52	6.31E+01	34.34			6.31E+01	3.43E+01
	48	1461.59	5.02E+01	21.45	2.41E+00	1.70E+00	4.78E+01	2.15E+01
M	49	1505.72	1.25E+01	13.21			1.25E+01	1.32E+01
m	50	1509.39	3.92E+01	22.51			3.92E+01	2.25E+01
	51	1583.64	1.15E+01	13.93			1.15E+01	1.39E+01
M	52	1658.49	1.35E+01	6.84			1.35E+01	6.84E+00
m	53	1666.91	1.65E+01	14.39			1.65E+01	1.44E+01
	54	1729.67	5.83E+01	17.79			5.83E+01	1.78E+01
	55	1764.86	2.51E+02	33.17			2.51E+02	3.32E+01

Analysis Report for 1507047-10

FEEBRISID-15 085-086

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
56	1838.65	1.41E+01	9.62	0.00E+00	0.00E+00	1.41E+01	9.62E+00
57	1847.95	4.42E+01	14.43			4.42E+01	1.44E+01
58	1899.85	1.10E+01	6.63			1.10E+01	6.63E+00
59	1960.93	7.91E+00	8.28			7.91E+00	8.28E+00
60	2118.38	1.87E+01	10.44			1.87E+01	1.04E+01
61	2204.68	7.20E+01	17.78			7.20E+01	1.78E+01
62	2447.17	1.60E+01	8.00			1.60E+01	8.00E+00
63	2614.81	1.45E+01	10.79			1.45E+01	1.08E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 8:20:15AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	15.42	3.89E+02	114.89			3.89E+02	1.15E+02
	2	27.30	1.06E+02	90.35			1.06E+02	9.03E+01
M	3	46.62	5.46E+02	96.73	5.08E+01	9.30E+00	4.95E+02	9.72E+01
m	4	49.92	1.17E+02	90.27			1.17E+02	9.03E+01
	5	67.80	1.10E+03	159.39			1.10E+03	1.59E+02
M	6	76.41	2.50E+03	197.25			2.50E+03	1.97E+02
m	7	80.86	5.35E+02	168.25			5.35E+02	1.68E+02
m	8	83.65	8.48E+02	139.89	1.09E+01	3.84E+00	8.37E+02	1.40E+02
m	9	87.67	7.85E+02	178.00	1.61E+01	4.76E+00	7.69E+02	1.78E+02
m	10	93.98	4.14E+02	139.18			4.14E+02	1.39E+02
m	11	97.28	8.41E+01	136.54			8.41E+01	1.37E+02
	12	143.91	2.75E+02	141.07	9.45E+00	6.13E+00	2.66E+02	1.41E+02
	13	154.29	1.16E+02	115.08			1.16E+02	1.15E+02
	14	186.05	5.75E+02	118.61	3.41E+01	6.16E+00	5.41E+02	1.19E+02
M	15	236.04	2.47E+02	65.46			2.47E+02	6.55E+01
m	16	242.05	6.66E+02	83.98			6.66E+02	8.40E+01
	17	256.49	1.10E+02	85.51			1.10E+02	8.55E+01
	18	270.78	5.50E+02	131.70			5.50E+02	1.32E+02
	19	295.38	1.28E+03	95.24	2.05E+00	6.38E+00	1.27E+03	9.55E+01
	20	301.12	1.35E+02	62.62			1.35E+02	6.26E+01

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	21	313.85	4.30E+01	53.54			4.30E+01	5.35E+01
	22	329.89	5.00E+01	59.97			5.00E+01	6.00E+01
	23	352.08	2.28E+03	121.04	8.85E+00	4.53E+00	2.27E+03	1.21E+02
	24	403.35	1.56E+02	74.94			1.56E+02	7.49E+01
	25	422.40	4.93E+01	42.77			4.93E+01	4.28E+01
M	26	427.78	5.44E+01	40.62			5.44E+01	4.06E+01
m	27	433.08	4.13E+01	32.86			4.13E+01	3.29E+01
	28	445.78	4.65E+01	46.26			4.65E+01	4.63E+01
	29	511.61	1.39E+02	51.82	6.53E+01	5.06E+00	7.34E+01	5.21E+01
	30	545.71	5.37E+01	41.81			5.37E+01	4.18E+01
M	31	605.70	2.57E+01	13.45			2.57E+01	1.35E+01
m	32	609.55	1.54E+03	82.38	8.51E+00	1.93E+00	1.53E+03	8.24E+01
m	33	666.02	5.04E+01	29.68			5.04E+01	2.97E+01
	34	768.68	1.52E+02	38.42			1.52E+02	3.84E+01
	35	786.79	4.65E+01	42.47			4.65E+01	4.25E+01
M	36	832.70	2.55E+01	25.20			2.55E+01	2.52E+01
m	37	838.96	3.24E+01	25.20			3.24E+01	2.52E+01
	38	913.72	3.53E+01	40.26			3.53E+01	4.03E+01
M	39	929.99	1.92E+01	18.57			1.92E+01	1.86E+01
m	40	933.99	9.87E+01	29.58			9.87E+01	2.96E+01
	41	1120.56	2.95E+02	51.13			2.95E+02	5.11E+01
	42	1155.24	3.34E+01	26.63			3.34E+01	2.66E+01
	43	1238.32	1.22E+02	29.52			1.22E+02	2.95E+01
	44	1281.97	2.03E+01	23.15			2.03E+01	2.32E+01
	45	1377.85	1.03E+02	30.81			1.03E+02	3.08E+01
	46	1385.98	1.71E+01	18.86			1.71E+01	1.89E+01
	47	1405.52	6.31E+01	34.34			6.31E+01	3.43E+01
	48	1461.59	5.02E+01	21.45	2.41E+00	1.70E+00	4.78E+01	2.15E+01
M	49	1505.72	1.25E+01	13.21			1.25E+01	1.32E+01
m	50	1509.39	3.92E+01	22.51			3.92E+01	2.25E+01
	51	1583.64	1.15E+01	13.93			1.15E+01	1.39E+01
M	52	1658.49	1.35E+01	6.84			1.35E+01	6.84E+00
m	53	1666.91	1.65E+01	14.39			1.65E+01	1.44E+01
	54	1729.67	5.83E+01	17.79			5.83E+01	1.78E+01
	55	1764.86	2.51E+02	33.17			2.51E+02	3.32E+01
	56	1838.65	1.41E+01	9.62	0.00E+00	0.00E+00	1.41E+01	9.62E+00
	57	1847.95	4.42E+01	14.43			4.42E+01	1.44E+01
	58	1899.85	1.10E+01	6.63			1.10E+01	6.63E+00
	59	1960.93	7.91E+00	8.28			7.91E+00	8.28E+00
	60	2118.38	1.87E+01	10.44			1.87E+01	1.04E+01
	61	2204.68	7.20E+01	17.78			7.20E+01	1.78E+01
	62	2447.17	1.60E+01	8.00			1.60E+01	8.00E+00
	63	2614.81	1.45E+01	10.79			1.45E+01	1.08E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-10

FEEBRISID-15 085-086

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.907	1460.81	*	10.67	2.59E+00	1.19E+00
GA-67	0.530	93.31	*	35.70	8.11E+02	3.51E+03
		208.95		2.24		
		300.22	*	16.00	1.14E+03	4.95E+03
CD-109	0.980	88.03	*	3.72	1.69E+01	4.40E+00
SN-126	0.998	87.57	*	37.00	1.62E+00	4.10E-01
XE-133	0.828	81.00	*	38.00	7.62E+01	2.50E+01
GD-153	0.336	97.43	*	31.30	2.30E-01	3.74E-01
		103.18		22.20		
TA-182	0.519	67.75	*	41.20	2.74E+00	4.55E-01
		1121.30	*	34.90	4.79E+00	9.17E-01
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.998	46.50	*	4.25	1.47E+01	3.28E+00
BI-214	0.986	609.31	*	46.30	9.15E+00	9.62E-01
		1120.29	*	15.10	9.12E+00	1.75E+00
		1764.49	*	15.80	1.06E+01	1.62E+00
		2204.22	*	4.98	1.12E+01	2.92E+00
PB-214	0.996	295.21	*	19.19	9.85E+00	1.05E+00
		351.92	*	37.19	1.05E+01	1.02E+00
RA-226	0.996	186.21	*	3.28	1.72E+01	3.17E+01
TH-227	0.995	50.10	*	8.40	1.58E+00	1.23E+00
		236.00	*	11.50	2.66E+00	7.35E-01
		256.20	*	6.30	2.30E+00	1.80E+00
TH-231	0.304	25.64		14.70		
		84.21	*	6.40	1.02E+01	1.98E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1507047-10

FEEBRISID-15 085-086

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:20:15AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	15.42	1.08097E-01	14.76		
	2	27.30	2.95114E-02	42.52		
M	6	76.41	6.93360E-01	3.95		
	12	143.91	7.38306E-02	26.56	Sum	
	13	154.29	3.22234E-02	49.60		
m	16	242.05	1.85093E-01	6.30		
	18	270.78	1.52785E-01	11.97		
	21	313.85	1.19444E-02	62.26		
	22	329.89	1.38850E-02	59.98	Sum	
	24	403.35	4.31990E-02	24.09		
	25	422.40	1.36963E-02	43.37	Sum	
M	26	427.78	1.51248E-02	37.30		
m	27	433.08	1.14740E-02	39.77	Sum	
	28	445.78	1.29290E-02	49.69	Sum	
	29	511.61	2.03760E-02	35.49		
	30	545.71	1.49280E-02	38.90		
M	31	605.70	7.15186E-03	26.13	Tol.	CS-134
m	33	666.02	1.40108E-02	29.42	Tol.	SB-126
	34	768.68	4.22259E-02	12.64		
	35	786.79	1.29215E-02	45.65		
M	36	832.70	7.08551E-03	49.40	Tol.	PB-211
m	37	838.96	9.00689E-03	38.86		
	38	913.72	9.80576E-03	57.03		
M	39	929.99	5.32335E-03	48.44		
m	40	933.99	2.74119E-02	14.99		
	42	1155.24	9.29093E-03	39.80		
	43	1238.32	3.39784E-02	12.07	Tol.	CO-56
	44	1281.97	5.64655E-03	56.95		
	45	1377.85	2.86881E-02	14.92	Sum	
	46	1385.98	4.75775E-03	55.06		
	47	1405.52	1.75397E-02	27.19		
M	49	1505.72	3.46680E-03	52.92		
m	50	1509.39	1.08816E-02	28.73		
	51	1583.64	3.19444E-03	60.56		
M	52	1658.49	3.73862E-03	25.40		
m	53	1666.91	4.58518E-03	43.58		
	54	1729.67	1.61892E-02	15.26	Sum	
	56	1838.65	3.90523E-03	34.21		
	57	1847.95	1.22872E-02	16.31	Sum	
	58	1899.85	3.05556E-03	30.15		
	59	1960.93	2.19697E-03	52.32		
	60	2118.38	5.19841E-03	27.89		
	62	2447.17	4.44444E-03	25.00		
	63	2614.81	4.02778E-03	37.22	Tol.	TL-208

Analysis Report for 1507047-10

FEEBRISID-15 085-086

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.90	1460.81	*	10.67	2.59E+00	1.19E+00
GA-67	0.53	93.31	*	35.70	8.11E+02	3.51E+03
		208.95		2.24		
		300.22	*	16.00	1.14E+03	4.95E+03
CD-109	0.98	88.03	*	3.72	1.69E+01	4.40E+00
SN-126	0.99	87.57	*	37.00	1.62E+00	4.10E-01
XE-133	0.82	81.00	*	38.00	7.62E+01	2.50E+01
GD-153	0.33	97.43	*	31.30	2.30E-01	3.74E-01
		103.18		22.20		
TA-182	0.51	67.75	*	41.20	2.74E+00	4.55E-01
		1121.30	*	34.90	4.79E+00	9.17E-01
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.99	46.50	*	4.25	1.47E+01	3.28E+00
BI-214	0.98	609.31	*	46.30	9.15E+00	9.62E-01
		1120.29	*	15.10	9.12E+00	1.75E+00
		1764.49	*	15.80	1.06E+01	1.62E+00
		2204.22	*	4.98	1.12E+01	2.92E+00
PB-214	0.99	295.21	*	19.19	9.85E+00	1.05E+00
		351.92	*	37.19	1.05E+01	1.02E+00
RA-226	0.99	186.21	*	3.28	1.72E+01	3.17E+01
TH-227	0.99	50.10	*	8.40	1.58E+00	1.23E+00
		236.00	*	11.50	2.66E+00	7.35E-01
		256.20	*	6.30	2.30E+00	1.80E+00
TH-231	0.30	25.64		14.70		
		84.21	*	6.40	1.02E+01	1.98E+00

Analysis Report for 1507047-10

FEEBRISID-15 085-086

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.907	2.59E+00	1.19E+00	
	GA-67	0.530	9.16E+02	3.90E+03	
X	NB-95M	0.662			
?	CD-109	0.980	1.69E+01	4.40E+00	
?	SN-126	0.998	1.62E+00	4.10E-01	
	XE-133	0.828	7.62E+01	2.50E+01	
	GD-153	0.336	2.30E-01	3.74E-01	
	TA-182	0.519	2.23E+00	4.15E-01	
	PB-210	0.998	1.47E+01	3.28E+00	
	BI-214	0.986	8.82E+00	7.37E-01	
	PB-214	0.996	1.02E+01	7.31E-01	
	RA-226	0.996	1.72E+01	3.17E+01	
	TH-227	0.995	2.37E+00	5.95E-01	
	TH-231	0.304	1.02E+01	1.98E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-10

FEEBRISID-15 085-086

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 8:20:15AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	15.42	1.08097E-01	14.76		
	2	27.30	2.95114E-02	42.52		
M	6	76.41	6.93360E-01	3.95		
	12	143.91	7.38306E-02	26.56	Sum	
	13	154.29	3.22234E-02	49.60		
m	16	242.05	1.85093E-01	6.30		
	18	270.78	1.52785E-01	11.97		
	21	313.85	1.19444E-02	62.26		
	22	329.89	1.38850E-02	59.98	Sum	
	24	403.35	4.31990E-02	24.09		
	25	422.40	1.36963E-02	43.37	Sum	
M	26	427.78	1.51248E-02	37.30		
m	27	433.08	1.14740E-02	39.77	Sum	
	28	445.78	1.29290E-02	49.69	Sum	
	29	511.61	2.03760E-02	35.49		
	30	545.71	1.49280E-02	38.90		
M	31	605.70	7.15186E-03	26.13	Tol.	CS-134
m	33	666.02	1.40108E-02	29.42	Tol.	SB-126
	34	768.68	4.22259E-02	12.64		
	35	786.79	1.29215E-02	45.65		
M	36	832.70	7.08551E-03	49.40	Tol.	PB-211
m	37	838.96	9.00689E-03	38.86		
	38	913.72	9.80576E-03	57.03		
M	39	929.99	5.32335E-03	48.44		
m	40	933.99	2.74119E-02	14.99		
	42	1155.24	9.29093E-03	39.80		
	43	1238.32	3.39784E-02	12.07	Tol.	CO-56
	44	1281.97	5.64655E-03	56.95		
	45	1377.85	2.86881E-02	14.92	Sum	
	46	1385.98	4.75775E-03	55.06		
	47	1405.52	1.75397E-02	27.19		
M	49	1505.72	3.46680E-03	52.92		
m	50	1509.39	1.08816E-02	28.73		
	51	1583.64	3.19444E-03	60.56		
M	52	1658.49	3.73862E-03	25.40		

Analysis Report for 1507047-10

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	53	1666.91	4.58518E-03	43.58		
	54	1729.67	1.61892E-02	15.26	Sum	
	56	1838.65	3.90523E-03	34.21		
	57	1847.95	1.22872E-02	16.31	Sum	
	58	1899.85	3.05556E-03	30.15		
	59	1960.93	2.19697E-03	52.32		
	60	2118.38	5.19841E-03	27.89		
	62	2447.17	4.44444E-03	25.00		
	63	2614.81	4.02778E-03	37.22	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.47E-01	1.90E+00	1.90E+00
+	NA-22	1274.54		99.94	-2.56E-02	1.67E-01	1.67E-01
+	NA-24	1368.53		99.99	-5.90E+13	2.42E+14	3.67E+14
		2754.09		99.86	4.74E+13		2.42E+14
+	AL-26	1808.65		99.76	-4.94E-03	1.23E-01	1.23E-01
+	K-40	1460.81	*	10.67	2.59E+00	1.61E+00	1.61E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.05E+00	2.05E-01	2.09E-01
		78.34		96.00	5.74E-01		2.05E-01
+	SC-46	889.25		99.98	-4.07E-02	1.97E-01	1.97E-01
		1120.51		99.99	1.74E+00		5.37E-01
+	V-48	983.52		99.98	-1.78E-01	6.65E-01	6.65E-01
		1312.10		97.50	-4.09E-02		6.68E-01
+	CR-51	320.08		9.83	-1.41E+00	2.86E+00	2.86E+00
+	MN-54	834.83		99.97	-1.25E-01	1.83E-01	1.83E-01
+	CO-56	846.75		99.96	1.64E-02	1.80E-01	2.15E-01
		1037.75		14.03	-1.97E-01		1.65E+00
		1238.25		67.00	1.08E+00		5.78E-01
		1771.40		15.51	-1.14E-01		8.56E-01

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CO-56	2598.48		16.90	0.00E+00	1.80E-01	1.80E-01
+	CO-57	122.06		85.51	-1.73E-02	1.27E-01	1.27E-01
		136.48		10.60	-2.65E-03		1.06E+00
+	CO-58	810.76		99.40	-1.54E-01	1.96E-01	1.96E-01
+	FE-59	1099.22		56.50	-1.85E-01	4.14E-01	4.14E-01
		1291.56		43.20	-1.10E-01		6.03E-01
+	CO-60	1173.22		100.00	-3.43E-02	1.57E-01	1.57E-01
		1332.49		100.00	-7.90E-02		1.79E-01
+	ZN-65	1115.52		50.75	7.16E-03	3.44E-01	3.44E-01
+	GA-67	93.31	*	35.70	8.11E+02	8.33E+02	1.32E+03
		208.95		2.24	1.96E+03		5.50E+03
		300.22	*	16.00	1.14E+03		8.33E+02
+	SE-75	121.11		16.70	2.25E-01	2.09E-01	7.25E-01
		136.00		59.20	-7.65E-02		2.09E-01
		264.65		59.80	-6.63E-02		2.54E-01
		279.53		25.20	-3.26E-01		6.20E-01
		400.65		11.40	5.15E-01		1.72E+00
+	RB-82	776.52		13.00	-5.21E-01	2.35E+00	2.35E+00
+	RB-83	520.41		46.00	-7.67E-02	3.37E-01	3.37E-01
		529.64		30.30	-4.08E-01		5.02E-01
		552.65		16.40	-1.67E-02		9.82E-01
+	KR-85	513.99		0.43	3.57E+01	3.63E+01	3.63E+01
+	SR-85	513.99		99.27	2.18E-01	2.22E-01	2.22E-01
+	Y-88	898.02		93.40	5.58E-02	2.08E-01	2.12E-01
		1836.01		99.38	0.00E+00		2.08E-01
+	NB-93M	16.57		9.43	9.68E+02	2.26E+02	2.26E+02
+	NB-94	702.63		100.00	6.07E-02	1.35E-01	1.35E-01
		871.10		100.00	6.74E-03		1.53E-01
+	NB-95	765.79		99.81	8.10E-01	4.50E-01	4.50E-01
+	NB-95M	235.69	*	25.00	5.70E+02	5.08E+02	5.08E+02
+	ZR-95	724.18		43.70	-6.59E-03	3.53E-01	4.47E-01
		756.72		55.30	1.32E-02		3.53E-01
+	MO-99	181.06		6.20	-5.54E+02	3.68E+03	5.82E+03
		739.58		12.80	5.76E+02		3.68E+03
		778.00		4.50	-2.21E+03		9.13E+03
+	RU-103	497.08		89.00	-2.68E-02	2.47E-01	2.47E-01
+	RU-106	621.84		9.80	-1.09E-01	1.42E+00	1.42E+00
+	AG-108M	433.93		89.90	-9.01E-03	1.44E-01	1.44E-01
		614.37		90.40	4.18E-02		2.16E-01
		722.95		90.50	4.37E-02		1.59E-01
+	CD-109	88.03	*	3.72	1.69E+01	1.49E+01	1.49E+01
+	AG-110M	657.75		93.14	-4.88E-02	1.52E-01	1.52E-01
		677.61		10.53	-7.24E-01		1.35E+00
		706.67		16.46	-4.93E-01		8.22E-01
		763.93		21.98	2.18E-01		8.09E-01
		884.67		71.63	-8.56E-02		2.33E-01
		1384.27		23.94	-1.39E+00		9.56E-01
+	CD-113M	263.70		0.02	-9.54E+01	5.49E+02	5.49E+02

Analysis Report for 1507047-10

FEEBRISID-15 085-086

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		SN-113	255.12		1.93	7.93E+00	2.65E-01	9.72E+00
			391.69		64.90	5.94E-02		2.65E-01
+		TE123M	159.00		84.10	2.18E-02	1.62E-01	1.62E-01
+		SB-124	602.71		97.87	5.03E-03	2.16E-01	2.16E-01
			645.85		7.26	8.66E-02		2.54E+00
			722.78		11.10	5.14E-01		1.87E+00
			1691.02		49.00	-2.11E-03		3.58E-01
+		I-125	35.49		6.49	3.18E+00	6.13E+00	6.13E+00
+		SB-125	176.33		6.89	-4.04E-01	5.09E-01	1.65E+00
			427.89		29.33	-8.29E-02		5.09E-01
			463.38		10.35	1.12E+00		1.42E+00
			600.56		17.80	-7.32E-02		7.98E-01
			635.90		11.32	-5.31E-01		1.02E+00
+		SB-126	414.70		83.30	2.85E-01	7.86E-01	1.08E+00
			666.33		99.60	5.80E-01		9.37E-01
			695.00		99.60	-2.79E-02		7.86E-01
			720.50		53.80	6.86E-01		1.68E+00
+		SN-126	87.57	*	37.00	1.62E+00	1.43E+00	1.43E+00
+		SB-127	473.00		25.00	-5.26E+01	1.19E+02	1.62E+02
			685.20		35.70	3.70E+01		1.19E+02
			783.80		14.70	2.86E+02		3.71E+02
+		I-129	29.78		57.00	2.93E-01	8.92E-01	8.92E-01
			33.60		13.20	6.16E-01		2.46E+00
			39.58		7.52	-6.62E-01		2.82E+00
+		I-131	284.30		6.05	1.03E+01	2.44E+00	3.61E+01
			364.48		81.20	-1.36E-01		2.44E+00
			636.97		7.26	-5.18E+00		2.51E+01
			722.89		1.80	3.46E+01		1.26E+02
+		TE-132	49.72		13.10	-4.93E+03	1.41E+02	1.18E+03
			228.16		88.00	4.10E+01		1.41E+02
+		BA-133	81.00		33.00	-3.30E+00	4.17E-01	4.68E-01
			302.84		17.80	8.75E-01		8.24E-01
			356.01		60.00	-2.22E-02		4.17E-01
+		I-133	529.87		86.30	-1.44E+10	1.77E+10	1.77E+10
+		XE-133	81.00	*	38.00	7.62E+01	9.64E+01	9.64E+01
+		CS-134	563.23		8.38	-4.42E-01	1.63E-01	1.54E+00
			569.32		15.43	5.88E-02		9.00E-01
			604.70		97.60	-5.15E-03		2.05E-01
			795.84		85.40	3.51E-02		1.63E-01
			801.93		8.73	-8.39E-01		1.74E+00
+		CS-135	268.24		16.00	1.71E+00	1.08E+00	1.08E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	5.29E+00	7.66E-01	8.83E+00
			163.89		4.61	5.76E+00		1.36E+01
			176.55		13.56	1.31E+00		4.49E+00
			273.65		12.66	-4.15E+00		6.81E+00
			340.57		48.50	1.09E+00		1.65E+00

Analysis Report for 1507047-10

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CS-136	818.50		99.70	-2.26E-01	7.66E-01	7.66E-01
		1048.07		79.60	-7.90E-03		1.09E+00
		1235.34		19.70	5.20E+00		7.13E+00
+	CS-137	661.65		85.12	-9.74E-02	1.66E-01	1.66E-01
+	LA-138	788.74		34.00	1.65E-01	2.84E-01	4.84E-01
		1435.80		66.00	4.50E-02		2.84E-01
+	CE-139	165.85		80.35	8.58E-02	1.73E-01	1.73E-01
+	BA-140	162.64		6.70	1.04E+00	2.99E+00	9.75E+00
		304.84		4.50	-1.56E+00		1.61E+01
		423.70		3.20	1.60E+01		2.75E+01
		437.55		2.00	8.56E+00		3.70E+01
		537.32		25.00	2.11E+00		2.99E+00
+	LA-140	328.77		20.50	1.33E-01	1.15E+00	4.06E+00
		487.03		45.50	5.08E-01		1.66E+00
		815.85		23.50	8.20E-02		3.48E+00
		1596.49		95.49	2.21E-01		1.15E+00
+	CE-141	145.44		48.40	6.95E-01	5.25E-01	5.25E-01
+	CE-143	57.36		11.80	-6.28E+06	6.71E+06	1.23E+07
		293.26		42.00	2.75E+05		6.71E+06
		664.55		5.20	3.00E+07		3.12E+07
+	CE-144	133.54		10.80	-1.04E-01	1.03E+00	1.03E+00
+	PM-144	476.78		42.00	8.68E-03	1.42E-01	3.30E-01
		618.01		98.60	3.19E-02		1.44E-01
		696.49		99.49	2.40E-02		1.42E-01
+	PM-145	36.85		21.70	1.80E-01	6.08E-01	1.15E+00
		37.36		39.70	6.68E-02		6.08E-01
		42.30		15.10	-1.77E-01		1.28E+00
		72.40		2.31	-2.64E+01		7.25E+00
+	PM-146	453.90		39.94	5.45E-02	3.14E-01	3.14E-01
		735.90		14.01	-6.85E-01		9.60E-01
		747.13		13.10	-1.43E-01		1.06E+00
+	ND-147	91.11		28.90	-7.68E+00	3.28E+00	3.28E+00
		531.02		13.10	-9.80E-01		7.08E+00
+	PM-149	285.90		3.10	3.69E+04	1.02E+05	1.02E+05
+	EU-152	121.78		20.50	-6.68E-02	4.90E-01	4.90E-01
		244.69		5.40	-1.55E-01		3.59E+00
		344.27		19.13	-4.99E-01		7.39E-01
		778.89		9.20	-2.10E-01		1.40E+00
		964.01		10.40	5.65E-01		1.76E+00
		1085.78		7.22	2.57E-01		2.35E+00
		1112.02		9.60	4.23E-01		1.74E+00
		1407.95		14.94	-7.80E-01		1.50E+00
+	GD-153	97.43	*	31.30	2.30E-01	4.75E-01	1.84E+00
		103.18		22.20	1.89E-02		4.75E-01
+	EU-154	123.07		40.50	-1.48E-04	2.52E-01	2.52E-01
		723.30		19.70	2.02E-01		7.36E-01
		873.19		11.50	-4.39E-01		1.38E+00
		996.32		10.30	-1.31E-01		1.51E+00
		1004.76		17.90	-2.80E-01		7.78E-01

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	EU-154	1274.45		35.50	-7.08E-02	2.52E-01	4.61E-01
+	EU-155	86.50		30.90	1.27E-01	4.64E-01	4.83E-01
		105.30		20.70	-3.43E-03		4.64E-01
+	EU-156	811.77		10.40	-1.02E+00	6.04E+00	6.04E+00
		1153.47		7.20	6.67E+00		1.17E+01
		1230.71		8.90	-1.46E+00		7.27E+00
+	HO-166M	184.41		72.60	7.64E-01	2.20E-01	2.20E-01
		280.45		29.60	-1.26E-01		4.52E-01
		410.94		11.10	-6.05E-01		1.32E+00
		711.69		54.10	-7.92E-02		2.39E-01
+	TM-171	66.72		0.14	6.26E+02	1.47E+02	1.47E+02
+	HF-172	81.75		4.52	-1.85E-01	9.39E-01	3.75E+00
		125.81		11.30	1.49E-01		9.39E-01
+	LU-172	181.53		20.60	-1.11E+00	7.20E+00	1.53E+01
		810.06		16.63	-1.29E+01		2.48E+01
		912.12		15.25	4.45E+00		3.30E+01
		1093.66		62.50	1.64E+00		7.20E+00
+	LU-173	100.72		5.24	-4.62E-02	9.14E-01	1.96E+00
		272.11		21.20	2.53E+00		9.14E-01
+	HF-175	343.40		84.00	-1.54E-01	2.32E-01	2.32E-01
+	LU-176	88.34		13.30	1.66E+00	1.30E-01	1.07E+00
		201.83		86.00	2.69E-02		1.57E-01
		306.78		94.00	-2.35E-02		1.30E-01
+	TA-182	67.75	*	41.20	2.74E+00	5.98E-01	5.98E-01
		1121.30	*	34.90	4.79E+00		1.05E+00
		1189.05		16.23	-6.88E-01		1.11E+00
		1221.41		26.98	1.52E-02		6.99E-01
		1231.02		11.44	-2.18E-01		1.64E+00
+	IR-192	308.46		29.68	-1.01E-01	3.70E-01	5.48E-01
		468.07		48.10	-4.76E-02		3.70E-01
+	HG-203	279.19		77.30	-3.27E-02	2.78E-01	2.78E-01
+	BI-207	569.67		97.72	-8.78E-03	1.38E-01	1.38E-01
		1063.62		74.90	-2.09E-02		2.07E-01
+	TL-208	583.14		30.22	2.13E-01	4.69E-01	4.69E-01
		860.37		4.48	-7.14E-02		3.30E+00
		2614.66		35.85	3.47E-01		5.44E-01
+	BI-210M	262.00		45.00	-4.83E-02	2.87E-01	2.87E-01
		300.00		23.00	-9.92E+00		6.91E-01
+	PB-210	46.50	*	4.25	1.47E+01	7.04E+00	7.04E+00
+	PB-211	404.84		2.90	5.18E+00	5.89E+00	5.97E+00
		831.96		2.90	1.75E+00		5.89E+00
+	BI-212	727.17		11.80	-3.06E-01	1.11E+00	1.11E+00
		1620.62		2.75	9.40E-01		5.58E+00
+	PB-212	238.63		44.60	8.78E-01	4.64E-01	4.64E-01
		300.09		3.41	-6.69E+01		4.66E+00
+	BI-214	609.31	*	46.30	9.15E+00	4.79E-01	4.79E-01
		1120.29	*	15.10	9.12E+00		2.01E+00
		1764.49	*	15.80	1.06E+01		7.96E-01

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BI-214	2204.22	*	4.98	1.12E+01	4.79E-01	1.77E+00
+	PB-214	295.21	*	19.19	9.85E+00	5.81E-01	8.27E-01
		351.92	*	37.19	1.05E+01		5.81E-01
+	RN-219	401.80		6.50	1.49E+00	2.58E+00	2.58E+00
+	RA-223	323.87		3.88	2.00E+00	3.56E+00	3.56E+00
+	RA-224	240.98		3.95	1.22E+01	5.26E+00	5.26E+00
+	RA-225	40.00		31.00	-7.01E-01	2.98E+00	2.98E+00
+	RA-226	186.21	*	3.28	1.72E+01	5.79E+00	5.79E+00
+	TH-227	50.10	*	8.40	1.58E+00	2.37E+00	3.20E+00
		236.00	*	11.50	2.66E+00		2.37E+00
		256.20	*	6.30	2.30E+00		2.92E+00
+	AC-228	338.32		11.40	3.83E-01	6.76E-01	1.30E+00
		911.07		27.70	2.36E-01		6.76E-01
		969.11		16.60	-2.87E-01		9.71E-01
+	TH-230	48.44		16.90	2.01E+00	1.21E+00	1.21E+00
		62.85		4.60	1.75E+00		3.32E+00
		67.67		0.37	2.68E+02		5.33E+01
+	PA-231	283.67		1.60	2.46E+00	6.34E+00	8.64E+00
		302.67		2.30	6.73E+00		6.34E+00
+	TH-231	25.64		14.70	8.48E+00	6.87E+00	6.87E+00
		84.21	*	6.40	1.02E+01		8.25E+00
+	PA-233	311.98		38.60	-7.40E-03	7.52E-01	7.52E-01
+	PA-234	131.20		20.40	7.11E-02	5.00E-01	5.00E-01
		733.99		8.80	5.05E-02		1.51E+00
		946.00		12.00	-1.10E-01		1.37E+00
+	PA-234M	1001.03		0.92	3.69E+00	1.64E+01	1.64E+01
+	TH-234	63.29		3.80	9.17E-01	4.05E+00	4.05E+00
+	U-235	143.76		10.50	2.10E+00	1.23E+00	1.23E+00
		163.35		4.70	1.05E+00		2.47E+00
		205.31		4.70	-1.58E-01		2.88E+00
+	NP-237	86.50		12.60	3.07E-01	1.17E+00	1.17E+00
+	NP-239	106.10		22.70	-1.93E+03	5.07E+03	5.07E+03
		228.18		10.70	4.59E+03		1.58E+04
		277.60		14.10	-1.44E+03		1.16E+04
+	AM-241	59.54		35.90	-3.67E-01	4.01E-01	4.01E-01
+	AM-243	74.67		66.00	1.12E+00	3.07E-01	3.07E-01
+	CM-243	209.75		3.29	-2.51E-01	9.56E-01	4.15E+00
		228.14		10.60	3.78E-01		1.30E+00
		277.60		14.00	-1.18E-01		9.56E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1507047-10

FEEBRISID-15 085-086

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.90E+00	1.90E+00	1.47E-01	9.08E-01
	NA-22	1274.54		99.94	1.67E-01	1.67E-01	-2.56E-02	7.61E-02
	NA-24	1368.53		99.99	3.67E+14	2.42E+14	-5.90E+13	1.64E+14
		2754.09		99.86	2.42E+14		4.74E+13	9.05E+13
	AL-26	1808.65		99.76	1.23E-01	1.23E-01	-4.94E-03	5.24E-02
+	K-40	1460.81	*	10.67	1.61E+00	1.61E+00	2.59E+00	7.34E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	2.09E-01	2.05E-01	1.05E+00	1.03E-01
		78.34		96.00	2.05E-01		5.74E-01	1.01E-01
	SC-46	889.25		99.98	1.97E-01	1.97E-01	-4.07E-02	9.16E-02
		1120.51		99.99	5.37E-01		1.74E+00	2.60E-01
	V-48	983.52		99.98	6.65E-01	6.65E-01	-1.78E-01	3.10E-01
		1312.10		97.50	6.68E-01		-4.09E-02	3.05E-01
	CR-51	320.08		9.83	2.86E+00	2.86E+00	-1.41E+00	1.38E+00
	MN-54	834.83		99.97	1.83E-01	1.83E-01	-1.25E-01	8.62E-02
	CO-56	846.75		99.96	2.15E-01	1.80E-01	1.64E-02	1.01E-01
		1037.75		14.03	1.65E+00		-1.97E-01	7.69E-01
		1238.25		67.00	5.78E-01		1.08E+00	2.76E-01
		1771.40		15.51	8.56E-01		-1.14E-01	3.51E-01
		2598.48		16.90	1.80E-01		0.00E+00	0.00E+00
	CO-57	122.06		85.51	1.27E-01	1.27E-01	-1.73E-02	6.21E-02
		136.48		10.60	1.06E+00		-2.65E-03	5.20E-01
	CO-58	810.76		99.40	1.96E-01	1.96E-01	-1.54E-01	9.15E-02
	FE-59	1099.22		56.50	4.14E-01	4.14E-01	-1.85E-01	1.89E-01
		1291.56		43.20	6.03E-01		-1.10E-01	2.74E-01
	CO-60	1173.22		100.00	1.57E-01	1.57E-01	-3.43E-02	7.21E-02
		1332.49		100.00	1.79E-01		-7.90E-02	8.19E-02
	ZN-65	1115.52		50.75	3.44E-01	3.44E-01	7.16E-03	1.58E-01
+	GA-67	93.31	*	35.70	1.32E+03	8.33E+02	8.11E+02	6.58E+02
		208.95		2.24	5.50E+03		1.96E+03	2.69E+03
		300.22	*	16.00	8.33E+02		1.14E+03	4.05E+02
	SE-75	121.11		16.70	7.25E-01	2.09E-01	2.25E-01	3.55E-01
		136.00		59.20	2.09E-01		-7.65E-02	1.02E-01
		264.65		59.80	2.54E-01		-6.63E-02	1.23E-01
		279.53		25.20	6.20E-01		-3.26E-01	3.01E-01
		400.65		11.40	1.72E+00		5.15E-01	8.33E-01
	RB-82	776.52		13.00	2.35E+00	2.35E+00	-5.21E-01	1.09E+00

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RB-83	520.41		46.00	3.37E-01	3.37E-01	-7.67E-02	1.59E-01
		529.64		30.30	5.02E-01		-4.08E-01	2.37E-01
		552.65		16.40	9.82E-01		-1.67E-02	4.64E-01
	KR-85	513.99		0.43	3.63E+01	3.63E+01	3.57E+01	1.74E+01
	SR-85	513.99		99.27	2.22E-01	2.22E-01	2.18E-01	1.06E-01
	Y-88	898.02		93.40	2.12E-01	2.08E-01	5.58E-02	9.93E-02
		1836.01		99.38	2.08E-01		0.00E+00	9.25E-02
	NB-93M	16.57		9.43	2.26E+02	2.26E+02	9.68E+02	1.11E+02
	NB-94	702.63		100.00	1.35E-01	1.35E-01	6.07E-02	6.31E-02
		871.10		100.00	1.53E-01		6.74E-03	7.13E-02
	NB-95	765.79		99.81	4.50E-01	4.50E-01	8.10E-01	2.17E-01
	NB-95M	235.69	*	25.00	5.08E+02	5.08E+02	5.70E+02	2.51E+02
	ZR-95	724.18		43.70	4.47E-01	3.53E-01	-6.59E-03	2.10E-01
		756.72		55.30	3.53E-01		1.32E-02	1.65E-01
	MO-99	181.06		6.20	5.82E+03	3.68E+03	-5.54E+02	2.84E+03
		739.58		12.80	3.68E+03		5.76E+02	1.73E+03
		778.00		4.50	9.13E+03		-2.21E+03	4.24E+03
	RU-103	497.08		89.00	2.47E-01	2.47E-01	-2.68E-02	1.18E-01
	RU-106	621.84		9.80	1.42E+00	1.42E+00	-1.09E-01	6.70E-01
	AG-108M	433.93		89.90	1.44E-01	1.44E-01	-9.01E-03	6.89E-02
		614.37		90.40	2.16E-01		4.18E-02	1.04E-01
		722.95		90.50	1.59E-01		4.37E-02	7.48E-02
+	CD-109	88.03	*	3.72	1.49E+01	1.49E+01	1.69E+01	7.42E+00
	AG-110M	657.75		93.14	1.52E-01	1.52E-01	-4.88E-02	7.13E-02
		677.61		10.53	1.35E+00		-7.24E-01	6.30E-01
		706.67		16.46	8.22E-01		-4.93E-01	3.83E-01
		763.93		21.98	8.09E-01		2.18E-01	3.82E-01
		884.67		71.63	2.33E-01		-8.56E-02	1.08E-01
		1384.27		23.94	9.56E-01		-1.39E+00	4.44E-01
	CD-113M	263.70		0.02	5.49E+02	5.49E+02	-9.54E+01	2.66E+02
	SN-113	255.12		1.93	9.72E+00	2.65E-01	7.93E+00	4.75E+00
		391.69		64.90	2.65E-01		5.94E-02	1.28E-01
	TE123M	159.00		84.10	1.62E-01	1.62E-01	2.18E-02	7.91E-02
	SB-124	602.71		97.87	2.16E-01	2.16E-01	5.03E-03	1.03E-01
		645.85		7.26	2.54E+00		8.66E-02	1.19E+00
		722.78		11.10	1.87E+00		5.14E-01	8.81E-01
		1691.02		49.00	3.58E-01		-2.11E-03	1.53E-01
	I-125	35.49		6.49	6.13E+00	6.13E+00	3.18E+00	2.99E+00
	SB-125	176.33		6.89	1.65E+00	5.09E-01	-4.04E-01	8.04E-01
		427.89		29.33	5.09E-01		-8.29E-02	2.45E-01
		463.38		10.35	1.42E+00		1.12E+00	6.81E-01
		600.56		17.80	7.98E-01		-7.32E-02	3.78E-01
		635.90		11.32	1.02E+00		-5.31E-01	4.75E-01
	SB-126	414.70		83.30	1.08E+00	7.86E-01	2.85E-01	5.23E-01
		666.33		99.60	9.37E-01		5.80E-01	4.44E-01
		695.00		99.60	7.86E-01		-2.79E-02	3.68E-01
		720.50		53.80	1.68E+00		6.86E-01	7.94E-01
+	SN-126	87.57	*	37.00	1.43E+00	1.43E+00	1.62E+00	7.11E-01
	SB-127	473.00		25.00	1.62E+02	1.19E+02	-5.26E+01	7.70E+01
		685.20		35.70	1.19E+02		3.70E+01	5.60E+01
		783.80		14.70	3.71E+02		2.86E+02	1.76E+02
	I-129	29.78		57.00	8.92E-01	8.92E-01	2.93E-01	4.36E-01
		33.60		13.20	2.46E+00		6.16E-01	1.20E+00

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	I-129	39.58		7.52	2.82E+00	8.92E-01	-6.62E-01	1.38E+00
	I-131	284.30		6.05	3.61E+01	2.44E+00	1.03E+01	1.75E+01
		364.48		81.20	2.44E+00		-1.36E-01	1.17E+00
		636.97		7.26	2.51E+01		-5.18E+00	1.17E+01
		722.89		1.80	1.26E+02		3.46E+01	5.93E+01
	TE-132	49.72		13.10	1.18E+03	1.41E+02	-4.93E+03	5.78E+02
		228.16		88.00	1.41E+02		4.10E+01	6.88E+01
	BA-133	81.00		33.00	4.68E-01	4.17E-01	-3.30E+00	2.31E-01
		302.84		17.80	8.24E-01		8.75E-01	4.01E-01
		356.01		60.00	4.17E-01		-2.22E-02	2.05E-01
	I-133	529.87		86.30	1.77E+10	1.77E+10	-1.44E+10	8.36E+09
+	XE-133	81.00	*	38.00	9.64E+01	9.64E+01	7.62E+01	4.80E+01
	CS-134	563.23		8.38	1.54E+00	1.63E-01	-4.42E-01	7.27E-01
		569.32		15.43	9.00E-01		5.88E-02	4.27E-01
		604.70		97.60	2.05E-01		-5.15E-03	9.87E-02
		795.84		85.40	1.63E-01		3.51E-02	7.58E-02
		801.93		8.73	1.74E+00		-8.39E-01	8.12E-01
	CS-135	268.24		16.00	1.08E+00	1.08E+00	1.71E+00	5.28E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	8.83E+00	7.66E-01	5.29E+00	4.33E+00
		163.89		4.61	1.36E+01		5.76E+00	6.65E+00
		176.55		13.56	4.49E+00		1.31E+00	2.19E+00
		273.65		12.66	6.81E+00		-4.15E+00	3.33E+00
		340.57		48.50	1.65E+00		1.09E+00	8.02E-01
		818.50		99.70	7.66E-01		-2.26E-01	3.57E-01
		1048.07		79.60	1.09E+00		-7.90E-03	5.06E-01
		1235.34		19.70	7.13E+00		5.20E+00	3.38E+00
	CS-137	661.65		85.12	1.66E-01	1.66E-01	-9.74E-02	7.85E-02
	LA-138	788.74		34.00	4.84E-01	2.84E-01	1.65E-01	2.28E-01
		1435.80		66.00	2.84E-01		4.50E-02	1.30E-01
	CE-139	165.85		80.35	1.73E-01	1.73E-01	8.58E-02	8.47E-02
	BA-140	162.64		6.70	9.75E+00	2.99E+00	1.04E+00	4.77E+00
		304.84		4.50	1.61E+01		-1.56E+00	7.79E+00
		423.70		3.20	2.75E+01		1.60E+01	1.33E+01
		437.55		2.00	3.70E+01		8.56E+00	1.77E+01
		537.32		25.00	2.99E+00		2.11E+00	1.42E+00
	LA-140	328.77		20.50	4.06E+00	1.15E+00	1.33E-01	1.97E+00
		487.03		45.50	1.66E+00		5.08E-01	7.91E-01
		815.85		23.50	3.48E+00		8.20E-02	1.62E+00
		1596.49		95.49	1.15E+00		2.21E-01	5.26E-01
	CE-141	145.44		48.40	5.25E-01	5.25E-01	6.95E-01	2.57E-01
	CE-143	57.36		11.80	1.23E+07	6.71E+06	-6.28E+06	6.04E+06
		293.26		42.00	6.71E+06		2.75E+05	3.31E+06
		664.55		5.20	3.12E+07		3.00E+07	1.48E+07
	CE-144	133.54		10.80	1.03E+00	1.03E+00	-1.04E-01	5.02E-01
	PM-144	476.78		42.00	3.30E-01	1.42E-01	8.68E-03	1.57E-01
		618.01		98.60	1.44E-01		3.19E-02	6.81E-02
		696.49		99.49	1.42E-01		2.40E-02	6.65E-02
	PM-145	36.85		21.70	1.15E+00	6.08E-01	1.80E-01	5.62E-01
		37.36		39.70	6.08E-01		6.68E-02	2.97E-01
		42.30		15.10	1.28E+00		-1.77E-01	6.26E-01

Analysis Report for 1507047-10

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PM-145	72.40		2.31	7.25E+00	6.08E-01	-2.64E+01	3.58E+00
	PM-146	453.90		39.94	3.14E-01	3.14E-01	5.45E-02	1.50E-01
		735.90		14.01	9.60E-01		-6.85E-01	4.48E-01
		747.13		13.10	1.06E+00		-1.43E-01	4.96E-01
	ND-147	91.11		28.90	3.28E+00	3.28E+00	-7.68E+00	1.61E+00
		531.02		13.10	7.08E+00		-9.80E-01	3.35E+00
	PM-149	285.90		3.10	1.02E+05	1.02E+05	3.69E+04	4.93E+04
	EU-152	121.78		20.50	4.90E-01	4.90E-01	-6.68E-02	2.39E-01
		244.69		5.40	3.59E+00		-1.55E-01	1.76E+00
		344.27		19.13	7.39E-01		-4.99E-01	3.58E-01
		778.89		9.20	1.40E+00		-2.10E-01	6.51E-01
		964.01		10.40	1.76E+00		5.65E-01	8.26E-01
		1085.78		7.22	2.35E+00		2.57E-01	1.09E+00
		1112.02		9.60	1.74E+00		4.23E-01	8.06E-01
		1407.95		14.94	1.50E+00		-7.80E-01	6.97E-01
+	GD-153	97.43	*	31.30	1.84E+00	4.75E-01	2.30E-01	9.17E-01
		103.18		22.20	4.75E-01		1.89E-02	2.32E-01
	EU-154	123.07		40.50	2.52E-01	2.52E-01	-1.48E-04	1.23E-01
		723.30		19.70	7.36E-01		2.02E-01	3.46E-01
		873.19		11.50	1.38E+00		-4.39E-01	6.44E-01
		996.32		10.30	1.51E+00		-1.31E-01	7.00E-01
		1004.76		17.90	7.78E-01		-2.80E-01	3.57E-01
		1274.45		35.50	4.61E-01		-7.08E-02	2.11E-01
	EU-155	86.50		30.90	4.83E-01	4.64E-01	1.27E-01	2.38E-01
		105.30		20.70	4.64E-01		-3.43E-03	2.27E-01
	EU-156	811.77		10.40	6.04E+00	6.04E+00	-1.02E+00	2.82E+00
		1153.47		7.20	1.17E+01		6.67E+00	5.48E+00
		1230.71		8.90	7.27E+00		-1.46E+00	3.31E+00
	HO-166M	184.41		72.60	2.20E-01	2.20E-01	7.64E-01	1.08E-01
		280.45		29.60	4.52E-01		-1.26E-01	2.20E-01
		410.94		11.10	1.32E+00		-6.05E-01	6.38E-01
		711.69		54.10	2.39E-01		-7.92E-02	1.11E-01
	TM-171	66.72		0.14	1.47E+02	1.47E+02	6.26E+02	7.26E+01
	HF-172	81.75		4.52	3.75E+00	9.39E-01	-1.85E-01	1.85E+00
		125.81		11.30	9.39E-01		1.49E-01	4.59E-01
	LU-172	181.53		20.60	1.53E+01	7.20E+00	-1.11E+00	7.49E+00
		810.06		16.63	2.48E+01		-1.29E+01	1.16E+01
		912.12		15.25	3.30E+01		4.45E+00	1.55E+01
		1093.66		62.50	7.20E+00		1.64E+00	3.33E+00
	LU-173	100.72		5.24	1.96E+00	9.14E-01	-4.62E-02	9.60E-01
		272.11		21.20	9.14E-01		2.53E+00	4.48E-01
	HF-175	343.40		84.00	2.32E-01	2.32E-01	-1.54E-01	1.12E-01
	LU-176	88.34		13.30	1.07E+00	1.30E-01	1.66E+00	5.28E-01
		201.83		86.00	1.57E-01		2.69E-02	7.68E-02
		306.78		94.00	1.30E-01		-2.35E-02	6.26E-02
+	TA-182	67.75	*	41.20	5.98E-01	5.98E-01	2.74E+00	2.96E-01
		1121.30	*	34.90	1.05E+00		4.79E+00	5.05E-01
		1189.05		16.23	1.11E+00		-6.88E-01	5.04E-01
		1221.41		26.98	6.99E-01		1.52E-02	3.19E-01
		1231.02		11.44	1.64E+00		-2.18E-01	7.46E-01
	IR-192	308.46		29.68	5.48E-01	3.70E-01	-1.01E-01	2.64E-01
		468.07		48.10	3.70E-01		-4.76E-02	1.77E-01
	HG-203	279.19		77.30	2.78E-01	2.78E-01	-3.27E-02	1.35E-01

Analysis Report for 1507047-10

FEEBRISID-15 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-207	569.67		97.72	1.38E-01	1.38E-01	-8.78E-03	6.56E-02
		1063.62		74.90	2.07E-01		-2.09E-02	9.53E-02
	TL-208	583.14		30.22	4.69E-01	4.69E-01	2.13E-01	2.23E-01
		860.37		4.48	3.30E+00		-7.14E-02	1.54E+00
		2614.66		35.85	5.44E-01		3.47E-01	2.40E-01
	BI-210M	262.00		45.00	2.87E-01	2.87E-01	-4.83E-02	1.40E-01
		300.00		23.00	6.91E-01		-9.92E+00	3.37E-01
+	PB-210	46.50	*	4.25	7.04E+00	7.04E+00	1.47E+01	3.48E+00
	PB-211	404.84		2.90	5.97E+00	5.89E+00	5.18E+00	2.90E+00
		831.96		2.90	5.89E+00		1.75E+00	2.77E+00
	BI-212	727.17		11.80	1.11E+00	1.11E+00	-3.06E-01	5.17E-01
		1620.62		2.75	5.58E+00		9.40E-01	2.48E+00
	PB-212	238.63		44.60	4.64E-01	4.64E-01	8.78E-01	2.28E-01
		300.09		3.41	4.66E+00		-6.69E+01	2.27E+00
+	BI-214	609.31	*	46.30	4.79E-01	4.79E-01	9.15E+00	2.31E-01
		1120.29	*	15.10	2.01E+00		9.12E+00	9.62E-01
		1764.49	*	15.80	7.96E-01		1.06E+01	3.41E-01
		2204.22	*	4.98	1.77E+00		1.12E+01	6.77E-01
+	PB-214	295.21	*	19.19	8.27E-01	5.81E-01	9.85E+00	4.03E-01
		351.92	*	37.19	5.81E-01		1.05E+01	2.84E-01
	RN-219	401.80		6.50	2.58E+00	2.58E+00	1.49E+00	1.25E+00
	RA-223	323.87		3.88	3.56E+00	3.56E+00	2.00E+00	1.73E+00
	RA-224	240.98		3.95	5.26E+00	5.26E+00	1.22E+01	2.59E+00
	RA-225	40.00		31.00	2.98E+00	2.98E+00	-7.01E-01	1.46E+00
+	RA-226	186.21	*	3.28	5.79E+00	5.79E+00	1.72E+01	2.85E+00
+	TH-227	50.10	*	8.40	3.20E+00	2.37E+00	1.58E+00	1.58E+00
		236.00	*	11.50	2.37E+00		2.66E+00	1.17E+00
		256.20	*	6.30	2.92E+00		2.30E+00	1.43E+00
	AC-228	338.32		11.40	1.30E+00	6.76E-01	3.83E-01	6.29E-01
		911.07		27.70	6.76E-01		2.36E-01	3.19E-01
		969.11		16.60	9.71E-01		-2.87E-01	4.52E-01
	TH-230	48.44		16.90	1.21E+00	1.21E+00	2.01E+00	5.96E-01
		62.85		4.60	3.32E+00		1.75E+00	1.64E+00
		67.67		0.37	5.33E+01		2.68E+02	2.63E+01
	PA-231	283.67		1.60	8.64E+00	6.34E+00	2.46E+00	4.20E+00
		302.67		2.30	6.34E+00		6.73E+00	3.08E+00
+	TH-231	25.64		14.70	6.87E+00	6.87E+00	8.48E+00	3.37E+00
		84.21	*	6.40	8.25E+00		1.02E+01	4.11E+00
	PA-233	311.98		38.60	7.52E-01	7.52E-01	-7.40E-03	3.64E-01
	PA-234	131.20		20.40	5.00E-01	5.00E-01	7.11E-02	2.44E-01
		733.99		8.80	1.51E+00		5.05E-02	7.04E-01
		946.00		12.00	1.37E+00		-1.10E-01	6.37E-01
	PA-234M	1001.03		0.92	1.64E+01	1.64E+01	3.69E+00	7.59E+00
	TH-234	63.29		3.80	4.05E+00	4.05E+00	9.17E-01	1.99E+00
	U-235	143.76		10.50	1.23E+00	1.23E+00	2.10E+00	6.03E-01
		163.35		4.70	2.47E+00		1.05E+00	1.21E+00
		205.31		4.70	2.88E+00		-1.58E-01	1.41E+00
	NP-237	86.50		12.60	1.17E+00	1.17E+00	3.07E-01	5.77E-01
	NP-239	106.10		22.70	5.07E+03	5.07E+03	-1.93E+03	2.48E+03
		228.18		10.70	1.58E+04		4.59E+03	7.70E+03
		277.60		14.10	1.16E+04		-1.44E+03	5.66E+03
	AM-241	59.54		35.90	4.01E-01	4.01E-01	-3.67E-01	1.97E-01
	AM-243	74.67		66.00	3.07E-01	3.07E-01	1.12E+00	1.52E-01

Analysis Report for 1507047-10

FEEBRISID-15 085-086

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CM-243	209.75	3.29	4.15E+00	9.56E-01	-2.51E-01	2.03E+00
	228.14	10.60	1.30E+00		3.78E-01	6.33E-01
	277.60	14.00	9.56E-01		-1.18E-01	4.64E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-15 085-086

Elapsed Live time: 3600
Elapsed Real Time: 3616

Channel								
1:	0	0	0	0	0	0	0	0
9:	18	254	226	256	290	253	503	400
17:	222	297	200	120	144	139	145	155
25:	125	134	191	199	114	110	129	147
33:	120	109	129	137	118	140	110	132
41:	122	149	149	141	160	307	497	192
49:	163	244	235	161	208	220	175	182
57:	185	203	223	204	243	202	283	335
65:	271	277	455	1065	413	260	251	240
73:	256	373	765	507	962	765	309	332
81:	412	371	285	565	342	230	366	410
89:	256	263	206	192	252	233	287	190
97:	144	185	153	141	137	129	136	122
105:	136	129	112	117	130	134	126	112
113:	143	139	121	97	123	128	128	120
121:	135	138	140	116	132	141	134	145
129:	112	134	121	144	124	114	111	140
137:	120	140	125	142	149	127	159	271
145:	222	159	132	133	139	154	104	111
153:	142	208	216	139	130	133	141	108
161:	126	109	119	164	129	130	127	117
169:	132	119	128	117	113	90	113	119
177:	109	108	108	116	98	98	126	122
185:	134	334	344	121	103	100	106	107
193:	98	111	101	107	93	93	102	89
201:	94	93	105	82	99	92	90	91
209:	87	105	99	87	80	88	92	87
217:	85	64	86	80	77	91	75	74
225:	90	88	79	76	85	76	75	75
233:	81	77	102	205	144	98	119	97
241:	155	408	266	77	64	69	66	73
249:	62	88	64	71	79	76	74	97
257:	146	66	73	69	68	47	57	38
265:	51	48	67	69	142	183	142	128
273:	76	62	59	66	47	56	63	53
281:	47	55	44	68	68	55	68	39
289:	62	55	53	46	54	100	655	637
297:	100	45	62	89	87	41	67	49
305:	37	35	38	38	47	29	41	36
313:	45	46	48	42	30	40	33	41
321:	46	35	48	72	39	46	37	46
329:	56	75	47	50	49	44	50	40
337:	41	46	72	49	46	39	50	42
345:	36	46	42	52	46	77	352	1280
353:	671	76	36	43	27	32	28	27
361:	28	34	31	32	29	26	34	29

369:	37	31	35	25	41	28	24	42

Sample Title: FEEBRISID-15 085-086

Channel								
377:	34	19	44	38	27	31	28	29
385:	28	28	31	27	42	48	24	35
393:	27	32	35	38	31	27	33	34
401:	48	74	59	37	45	49	49	34
409:	29	45	33	31	35	33	41	37
417:	38	35	27	29	40	40	40	33
425:	30	23	49	42	21	36	20	22
433:	40	27	14	17	27	25	26	32
441:	27	27	24	29	30	35	18	25
449:	15	14	26	16	25	21	20	13
457:	20	13	30	22	27	27	32	21
465:	28	28	19	15	24	24	14	21
473:	20	21	19	19	30	19	14	21
481:	22	18	21	18	23	28	23	20
489:	13	19	17	17	16	17	21	18
497:	22	12	12	20	16	23	19	18
505:	25	16	14	18	33	30	50	39
513:	27	25	16	18	8	14	8	16
521:	21	16	19	18	25	18	12	17
529:	18	11	14	7	16	21	14	19
537:	16	20	14	14	11	12	22	18
545:	27	12	18	15	18	9	10	15
553:	16	16	15	18	17	16	14	14
561:	10	17	14	13	16	13	12	21
569:	21	22	13	9	13	19	16	13
577:	16	17	20	15	16	18	25	22
585:	16	6	12	8	14	13	17	10
593:	8	18	13	17	21	12	21	13
601:	22	15	16	8	24	21	19	111
609:	690	680	114	18	16	15	11	18
617:	17	10	10	17	11	8	15	14
625:	14	10	16	14	14	7	9	11
633:	13	7	7	9	9	10	7	16
641:	10	8	7	12	13	11	14	8
649:	13	12	13	13	14	13	9	10
657:	11	11	11	9	17	9	7	13
665:	27	32	15	12	7	13	8	6
673:	9	11	15	13	8	14	11	8
681:	5	15	17	6	8	10	7	15
689:	13	9	12	9	16	11	11	15
697:	8	2	11	10	8	16	15	7
705:	6	13	6	12	9	9	9	10
713:	9	11	10	9	18	11	13	15
721:	10	10	15	6	16	10	8	9
729:	8	9	10	10	12	7	11	6
737:	11	11	9	13	20	14	15	11
745:	7	14	9	10	5	14	11	5
753:	10	9	9	8	7	13	11	12
761:	12	11	17	7	8	14	27	58
769:	83	23	5	7	10	11	8	9
777:	8	4	6	12	10	7	8	8
785:	19	27	24	12	7	10	7	6
793:	6	14	9	9	5	7	10	5

801:	11	10	11	7	17	19	20	7

Sample Title: FEEBRISID-15 085-086

Channel								
809:	11	6	10	12	7	12	10	8
817:	9	13	7	6	10	11	12	5
825:	7	12	9	13	8	12	15	12
833:	21	12	11	10	12	12	26	14
841:	6	8	10	13	13	12	10	11
849:	11	9	14	10	8	3	6	7
857:	13	7	8	7	11	6	11	9
865:	13	3	11	14	4	4	13	10
873:	6	15	11	11	12	17	12	15
881:	14	5	7	8	9	10	11	13
889:	6	4	9	9	7	15	6	12
897:	16	10	5	9	12	8	5	12
905:	10	8	12	13	7	8	18	19
913:	13	16	9	15	8	11	9	7
921:	9	10	5	8	5	6	7	8
929:	9	15	5	6	27	50	23	10
937:	9	6	8	14	13	13	10	12
945:	3	14	4	13	10	8	7	5
953:	9	5	7	4	4	9	12	8
961:	9	12	19	14	10	7	9	8
969:	10	7	9	11	13	5	5	12
977:	3	14	12	5	20	11	3	9
985:	10	5	8	10	10	7	5	8
993:	9	11	7	5	7	7	7	8
1001:	10	7	4	7	8	4	6	5
1009:	7	6	9	5	5	8	7	6
1017:	5	13	3	8	6	6	8	9
1025:	6	8	6	4	11	5	6	3
1033:	8	9	5	7	14	9	7	11
1041:	11	12	10	4	11	4	8	12
1049:	6	7	5	6	10	4	9	8
1057:	7	7	8	9	5	7	5	4
1065:	11	6	4	10	3	10	9	5
1073:	6	6	4	8	6	3	3	4
1081:	7	7	5	9	7	8	12	6
1089:	8	7	8	10	8	3	8	7
1097:	6	5	5	2	4	8	10	7
1105:	8	5	5	2	11	5	7	4
1113:	10	5	9	9	4	5	58	135
1121:	104	25	8	7	5	5	6	5
1129:	6	4	2	6	5	8	8	5
1137:	6	6	2	4	6	5	6	6
1145:	6	7	4	10	5	4	9	4
1153:	5	13	19	14	5	5	2	5
1161:	6	3	11	5	6	6	6	4
1169:	6	2	7	7	10	5	5	4
1177:	6	10	7	5	13	10	9	6
1185:	10	9	3	5	5	6	5	2
1193:	6	9	2	4	1	5	4	4
1201:	4	0	3	6	7	3	7	11
1209:	3	9	8	11	3	5	2	4
1217:	4	7	3	5	8	6	4	4
1225:	8	4	6	6	4	5	4	5

1233:	4	8	4	5	36	48	36	9

Sample Title: FEEBRISID-15 085-086

Channel								
1241:	2	2	5	8	8	4	3	4
1249:	3	6	2	6	7	5	8	2
1257:	2	1	5	6	3	7	5	5
1265:	1	6	6	5	4	2	3	1
1273:	6	3	4	9	5	5	5	8
1281:	13	10	10	5	2	7	4	2
1289:	3	5	5	0	5	4	7	3
1297:	6	3	3	4	5	1	5	3
1305:	3	4	6	4	5	1	3	4
1313:	4	6	7	2	6	1	0	2
1321:	3	3	4	7	5	9	6	7
1329:	7	3	4	5	5	3	4	4
1337:	4	7	1	1	2	9	5	4
1345:	3	2	3	5	5	5	3	2
1353:	3	4	3	5	2	2	2	3
1361:	5	3	5	4	3	3	3	4
1369:	0	3	3	2	4	2	5	15
1377:	48	29	17	6	7	4	4	8
1385:	7	10	7	4	3	4	5	5
1393:	4	6	3	3	5	5	0	8
1401:	7	20	6	3	5	5	6	25
1409:	10	4	3	2	6	7	1	0
1417:	4	5	4	2	6	1	3	6
1425:	2	3	5	4	3	2	2	4
1433:	6	5	7	3	5	6	4	7
1441:	4	3	9	4	8	4	3	3
1449:	3	2	4	6	2	2	9	3
1457:	6	1	6	14	26	12	7	4
1465:	1	3	5	4	2	3	0	4
1473:	5	3	3	4	3	2	4	2
1481:	5	5	2	7	4	3	2	4
1489:	6	5	8	6	3	5	5	7
1497:	5	3	6	4	4	6	1	8
1505:	5	8	6	10	18	10	6	6
1513:	7	4	2	4	6	7	4	1
1521:	2	5	5	1	5	5	2	1
1529:	7	3	5	5	4	5	6	3
1537:	4	10	9	7	3	8	5	5
1545:	7	4	4	3	4	5	2	1
1553:	4	1	3	5	2	5	4	1
1561:	4	3	4	3	3	4	2	2
1569:	2	0	3	3	5	2	4	1
1577:	7	3	3	3	2	4	8	4
1585:	2	1	1	2	1	0	4	5
1593:	2	5	2	6	3	3	6	6
1601:	6	4	3	1	3	5	2	1
1609:	3	3	2	3	3	5	2	2
1617:	3	3	4	3	1	2	4	0
1625:	1	1	1	0	1	2	2	3
1633:	3	1	3	5	5	2	5	0
1641:	0	4	3	2	1	3	0	3
1649:	2	1	1	2	2	2	2	0
1657:	4	6	0	7	6	6	2	3

1665:	1	3	7	1	2	2	2	0

Sample Title: FEEBRISID-15 085-086

Channel								
1673:	1	2	4	3	2	1	3	3
1681:	1	1	4	1	3	1	0	2
1689:	2	0	2	1	0	3	2	1
1697:	0	2	1	0	3	1	0	1
1705:	2	3	1	0	1	0	2	1
1713:	0	2	2	1	4	1	1	1
1721:	2	1	0	0	3	0	5	4
1729:	27	12	9	2	2	0	2	2
1737:	2	3	2	0	1	1	1	0
1745:	0	0	0	2	2	1	1	2
1753:	1	0	0	2	1	1	2	2
1761:	2	6	41	87	91	22	2	1
1769:	0	0	1	0	2	1	0	0
1777:	1	2	1	2	1	2	1	0
1785:	1	2	3	0	1	0	0	3
1793:	2	1	0	2	1	0	1	2
1801:	0	3	2	0	0	3	1	3
1809:	2	1	0	1	2	1	0	0
1817:	1	1	2	1	1	1	1	2
1825:	0	0	1	2	0	0	1	3
1833:	0	2	0	1	5	6	4	1
1841:	0	0	0	0	3	8	13	13
1849:	8	1	1	0	1	2	1	2
1857:	1	1	1	2	0	4	2	3
1865:	1	3	2	1	0	1	1	1
1873:	3	1	3	1	1	0	1	1
1881:	1	0	2	3	1	0	2	0
1889:	1	1	2	1	3	0	0	1
1897:	1	1	3	2	2	1	0	0
1905:	0	2	0	1	1	0	1	1
1913:	0	1	2	0	0	1	2	3
1921:	1	1	0	0	1	1	1	1
1929:	1	1	1	0	1	3	4	0
1937:	1	2	5	0	2	2	0	0
1945:	2	0	1	1	4	1	0	1
1953:	1	1	0	0	2	0	0	5
1961:	1	3	0	0	3	1	2	1
1969:	0	3	0	3	1	1	1	2
1977:	1	1	0	1	1	2	0	1
1985:	1	1	1	1	2	0	0	5
1993:	3	1	1	2	2	1	0	3
2001:	0	0	3	0	1	0	2	1
2009:	3	3	2	1	1	3	1	1
2017:	1	4	1	1	1	0	1	2
2025:	0	0	0	2	1	2	0	2
2033:	1	0	0	0	0	1	0	2
2041:	1	0	0	0	1	0	0	0
2049:	3	1	0	1	0	3	1	1
2057:	1	0	0	1	1	0	2	0
2065:	0	0	0	0	0	2	2	0
2073:	1	2	0	1	0	0	1	1
2081:	0	1	2	0	1	0	1	0
2089:	0	0	1	2	0	1	0	0

2097:	0	0	1	0	0	1	2	0

Sample Title: FEEBRISID-15 085-086

Channel								
2105:	0	0	2	0	1	2	1	1
2113:	0	2	2	1	3	6	5	1
2121:	1	0	0	1	1	1	2	1
2129:	2	0	0	0	0	2	0	0
2137:	0	0	1	1	0	0	0	1
2145:	0	1	1	0	1	2	0	1
2153:	0	0	1	0	1	0	0	0
2161:	1	0	0	0	0	2	1	0
2169:	1	1	0	1	1	1	0	0
2177:	0	0	1	1	1	0	1	0
2185:	0	0	0	0	1	0	1	2
2193:	0	0	0	0	0	0	0	0
2201:	1	3	17	31	16	6	0	1
2209:	0	0	0	0	0	0	2	0
2217:	0	0	2	1	0	1	1	2
2225:	0	1	0	0	1	0	0	0
2233:	0	0	0	0	1	0	1	1
2241:	1	0	1	0	1	0	0	2
2249:	0	0	0	0	1	1	0	0
2257:	0	0	0	1	0	2	1	0
2265:	0	0	1	1	0	0	0	0
2273:	0	0	0	1	0	0	0	0
2281:	0	0	0	1	1	0	1	1
2289:	0	1	0	1	1	1	2	2
2297:	0	0	0	0	0	1	0	1
2305:	0	0	1	0	0	0	0	0
2313:	0	0	0	1	0	0	0	0
2321:	0	0	0	0	1	0	1	0
2329:	1	0	0	0	1	0	0	0
2337:	0	0	1	1	1	3	0	0
2345:	0	0	1	1	0	0	0	0
2353:	0	1	0	0	0	0	1	0
2361:	0	0	2	0	0	0	0	0
2369:	0	0	0	1	0	0	0	0
2377:	0	0	0	1	2	0	0	0
2385:	1	1	0	0	0	0	0	1
2393:	0	0	0	1	1	0	1	0
2401:	0	0	0	0	1	1	0	0
2409:	0	1	0	1	0	0	0	0
2417:	1	0	0	1	0	1	0	2
2425:	0	1	0	0	0	1	0	0
2433:	0	2	0	1	0	1	0	0
2441:	0	0	1	3	2	0	5	2
2449:	3	0	0	0	1	0	0	0
2457:	0	0	0	0	0	0	1	0
2465:	0	1	0	1	0	0	0	1
2473:	0	0	0	0	0	0	1	0
2481:	0	0	0	0	0	0	1	0
2489:	0	2	0	0	0	1	0	0
2497:	0	0	0	0	0	1	0	0
2505:	0	0	0	0	0	0	0	3
2513:	0	0	1	0	0	0	0	0
2521:	0	0	0	0	1	0	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-15 085-086

Channel								
2537:	0	0	0	0	0	0	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	0	1	0	1	0	0
2561:	0	0	0	0	0	0	1	0
2569:	0	1	0	0	1	1	0	0
2577:	1	0	0	0	0	1	0	0
2585:	0	1	0	0	1	0	0	0
2593:	0	0	0	0	0	0	0	0
2601:	0	0	1	0	0	0	1	1
2609:	0	1	0	1	5	5	4	2
2617:	1	0	1	0	0	1	0	0
2625:	1	1	0	0	0	0	0	2
2633:	1	0	0	0	0	0	1	0
2641:	1	0	0	1	0	0	0	0
2649:	0	1	0	0	1	0	0	0
2657:	0	1	0	0	0	1	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	2	0	0	0	0	0	0
2681:	1	0	0	0	1	0	0	0
2689:	0	0	1	1	1	1	0	0
2697:	0	0	0	0	0	0	0	1
2705:	0	0	0	0	0	0	1	0
2713:	0	0	0	0	0	0	0	0
2721:	1	0	0	0	0	0	0	0
2729:	1	0	0	0	0	0	0	0
2737:	0	0	0	1	0	0	1	0
2745:	0	1	0	1	1	0	2	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	1	0	0	1	0	0
2769:	0	0	0	0	0	0	0	1
2777:	0	0	0	1	0	0	0	1
2785:	0	0	0	0	0	0	1	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	1	0	0	0	0
2809:	0	0	0	1	0	0	0	0
2817:	1	2	0	0	1	0	0	0
2825:	1	0	0	0	0	0	0	0
2833:	0	1	0	1	0	1	0	0
2841:	0	1	0	0	1	0	0	0
2849:	0	0	0	0	0	1	0	0
2857:	0	1	1	0	1	0	1	0
2865:	0	0	0	0	0	0	1	0
2873:	1	0	0	0	1	0	0	0
2881:	0	0	0	0	0	1	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	1	0	0	2	0
2905:	0	0	0	0	0	0	2	1
2913:	0	1	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	1	0	1	0	0	0	0
2937:	0	0	1	0	0	0	0	0
2945:	0	0	0	0	0	0	1	0
2953:	1	1	0	0	0	0	0	1

2961:	0	0	1	0	0	0	0	0

Sample Title: FEEBRISID-15 085-086

Channel								
2969:	0	0	0	0	0	0	0	1
2977:	0	0	1	1	0	0	0	0
2985:	0	0	0	0	0	1	0	0
2993:	0	0	0	0	0	0	1	0
3001:	0	0	0	0	0	0	0	0
3009:	0	1	0	0	0	0	0	0
3017:	0	1	0	0	0	0	1	0
3025:	0	1	0	0	1	0	0	0
3033:	0	1	0	0	0	0	0	1
3041:	0	1	0	0	0	0	0	0
3049:	0	0	0	0	0	0	2	0
3057:	0	0	1	1	0	0	0	1
3065:	0	0	0	0	0	0	0	0
3073:	1	0	1	0	0	0	0	0
3081:	0	0	1	0	0	0	0	0
3089:	0	0	0	0	0	0	0	2
3097:	0	0	1	0	0	0	0	0
3105:	1	0	0	1	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	1	0
3137:	0	0	0	0	0	1	0	0
3145:	0	0	0	1	0	0	1	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	1	0	0
3185:	1	0	0	0	0	0	0	0
3193:	1	0	0	0	1	0	0	0
3201:	0	0	1	1	0	0	0	0
3209:	1	0	0	1	0	0	0	0
3217:	0	0	0	1	0	0	2	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	1	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	1	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	1	0	0	0	0	0	0	1
3281:	1	0	1	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	1	0
3305:	1	0	0	0	0	1	0	0
3313:	0	0	0	0	0	0	1	0
3321:	0	0	1	1	2	1	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	1	0	0	0	0	0	0
3345:	1	0	1	0	1	1	0	0
3353:	0	1	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	1	0	0	1	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

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3393:	1	0	0	0	0	1	0	0

Sample Title: FEEBRISID-15 085-086

Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	1	1	0
3417:	0	0	0	0	0	0	0	0
3425:	2	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	1	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	1	0	1	0	0	0
3497:	0	0	0	0	1	0	0	0
3505:	1	0	0	1	0	0	0	0
3513:	0	0	0	0	0	1	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	1	1
3537:	1	0	1	0	1	0	0	0
3545:	0	0	2	0	1	0	0	0
3553:	0	1	1	0	0	0	0	0
3561:	0	0	0	0	1	0	0	0
3569:	0	0	1	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	1	0	0	0	0	0	0	0
3609:	0	1	0	0	1	0	0	0
3617:	0	0	0	0	1	0	0	0
3625:	1	0	0	0	0	0	0	1
3633:	0	0	0	0	0	0	0	1
3641:	0	0	0	1	1	0	0	0
3649:	0	0	0	0	0	1	0	0
3657:	1	0	0	0	0	0	0	1
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	1	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	1
3705:	0	0	0	2	0	0	0	0
3713:	0	0	0	0	0	0	0	1
3721:	0	0	1	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	1	0	0
3745:	0	1	0	1	0	0	0	0
3753:	1	0	0	0	0	0	0	0
3761:	0	0	0	0	1	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	1	0	0	0	0
3801:	1	0	0	0	1	0	0	0
3809:	1	0	0	1	0	1	0	0
3817:	0	0	0	0	0	1	0	0

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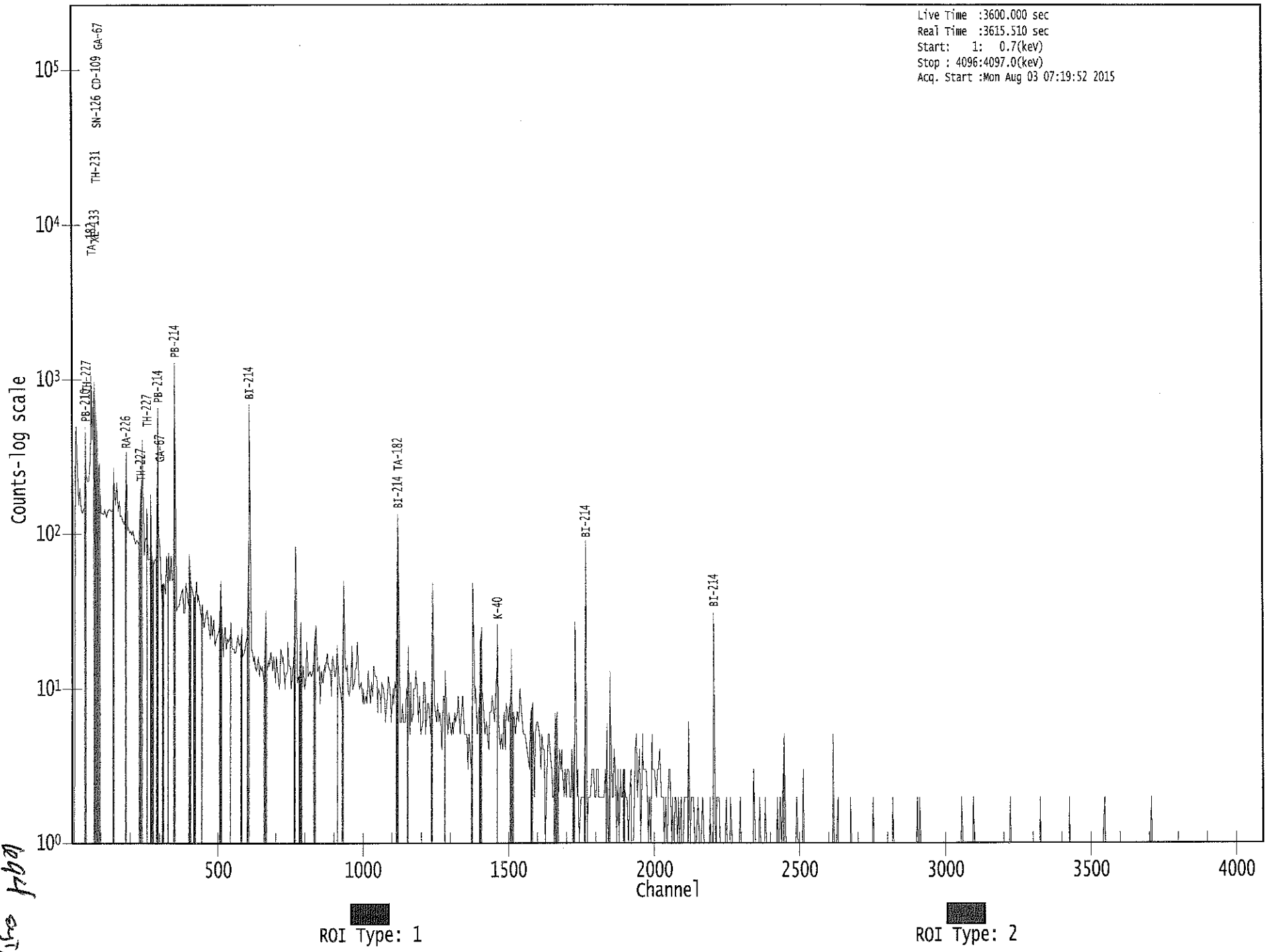
3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-15 085-086

Channel								
3833:	0	0	0	0	0	0	1	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	0	0	0	0	0	0	0	0
3873:	0	0	1	0	0	0	0	1
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	1	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	1	0	0	1
3921:	0	0	0	1	0	0	0	0
3929:	0	0	0	1	0	0	0	0
3937:	0	0	0	1	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	1	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	1	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	1	1	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	1	0	0	0	0
4049:	0	0	0	1	1	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	1	0	0	0	0	0	0	0

0000025456.CNF



Apex-Gamma

Analysis Report for 1507047-11
FEEBRISID-11 085-086

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GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-11
Sample Description	: FEEBRISID-11 085-086
Sample Type	: SOIL
Sample Size	: 6.076E+02 grams
Facility	: Countroom
Sample Taken On	: 7/2/2015 7:55:20AM
Acquisition Started	: 8/3/2015 8:25:28AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3609.0 seconds
Dead Time	: 0.25 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 18 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25459

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

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Analysis Report for 1507047-11

FEEBRISID-11 085-086

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 9:25:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	32.06	32.41	0.0000	0.00
2	46.62	46.97	0.0000	0.00
3	67.87	68.21	0.0000	0.00
4	76.35	76.69	0.0000	0.00
5	83.80	84.14	0.0000	0.00
6	88.14	88.48	0.0000	0.00
7	94.54	94.88	0.0000	0.00
8	122.45	122.78	0.0000	0.00
9	143.91	144.23	0.0000	0.00
10	154.12	154.43	0.0000	0.00
11	186.33	186.63	0.0000	0.00
12	210.85	211.14	0.0000	0.00
13	236.07	236.36	0.0000	0.00
14	238.78	239.07	0.0000	0.00
15	242.15	242.43	0.0000	0.00
16	256.45	256.73	0.0000	0.00
17	270.40	270.67	0.0000	0.00
18	274.52	274.79	0.0000	0.00
19	285.17	285.44	0.0000	0.00
20	295.37	295.64	0.0000	0.00
21	300.26	300.52	0.0000	0.00
22	323.84	324.10	0.0000	0.00
23	329.63	329.89	0.0000	0.00
24	338.45	338.71	0.0000	0.00
25	351.95	352.20	0.0000	0.00
26	387.04	387.27	0.0000	0.00
27	401.80	402.03	0.0000	0.00
28	404.94	405.17	0.0000	0.00
29	427.01	427.23	0.0000	0.00
30	445.60	445.82	0.0000	0.00
31	462.14	462.36	0.0000	0.00
32	487.00	487.20	0.0000	0.00
33	510.68	510.87	0.0000	0.00
34	580.52	580.69	0.0000	0.00
35	583.25	583.42	0.0000	0.00
36	609.39	609.55	0.0000	0.00
37	613.24	613.40	0.0000	0.00
38	665.62	665.76	0.0000	0.00
39	703.62	703.75	0.0000	0.00
40	719.79	719.91	0.0000	0.00
41	743.65	743.76	0.0000	0.00
42	768.27	768.38	0.0000	0.00

6996 EJT 8/6/15

Analysis Report for 1507047-11

FEEBRISID-11 085-086

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	786.07	786.17	0.0000	0.00
44	806.22	806.31	0.0000	0.00
45	820.71	820.79	0.0000	0.00
46	826.32	826.40	0.0000	0.00
47	831.98	832.07	0.0000	0.00
48	834.51	834.60	0.0000	0.00
49	839.06	839.14	0.0000	0.00
50	910.75	910.80	0.0000	0.00
51	934.20	934.24	0.0000	0.00
52	963.56	963.60	0.0000	0.00
53	1049.47	1049.47	0.0000	0.00
54	1052.33	1052.34	0.0000	0.00
55	1088.41	1088.41	0.0000	0.00
56	1091.69	1091.68	0.0000	0.00
57	1120.41	1120.39	0.0000	0.00
58	1155.10	1155.07	0.0000	0.00
59	1207.70	1207.65	0.0000	0.00
60	1238.32	1238.25	0.0000	0.00
61	1280.87	1280.80	0.0000	0.00
62	1377.63	1377.52	0.0000	0.00
63	1384.85	1384.73	0.0000	0.00
64	1401.93	1401.80	0.0000	0.00
65	1408.10	1407.98	0.0000	0.00
66	1460.91	1460.77	0.0000	0.00
67	1508.85	1508.69	0.0000	0.00
68	1538.59	1538.42	0.0000	0.00
69	1545.51	1545.34	0.0000	0.00
70	1582.95	1582.76	0.0000	0.00
71	1661.44	1661.23	0.0000	0.00
72	1729.75	1729.51	0.0000	0.00
73	1764.54	1764.28	0.0000	0.00
74	1847.64	1847.35	0.0000	0.00
75	1895.48	1895.18	0.0000	0.00
76	1929.69	1929.37	0.0000	0.00
77	1937.10	1936.78	0.0000	0.00
78	1953.27	1952.94	0.0000	0.00
79	1961.03	1960.70	0.0000	0.00
80	1967.39	1967.06	0.0000	0.00
81	2118.56	2118.17	0.0000	0.00
82	2168.35	2167.94	0.0000	0.00
83	2204.00	2203.58	0.0000	0.00
84	2232.22	2231.78	0.0000	0.00
85	2252.17	2251.72	0.0000	0.00
86	2259.43	2258.98	0.0000	0.00
87	2287.75	2287.29	0.0000	0.00
88	2292.75	2292.30	0.0000	0.00
89	2321.15	2320.68	0.0000	0.00
90	2356.40	2355.92	0.0000	0.00
91	2447.54	2447.02	0.0000	0.00
92	2614.55	2613.97	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

697 EJT 8/6/15

Analysis Report for 1507047-11

FEEBRISID-11 085-086

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 9:25:58AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	32.06	31 -	35	32.41	1.92E+02	151.00	4.90E+03	1.82
	2	46.62	44 -	49	46.97	1.72E+03	216.40	8.04E+03	1.26
	3	67.87	65 -	70	68.21	4.14E+03	320.81	1.96E+04	1.30
	4	76.35	73 -	79	76.69	4.49E+03	378.25	2.74E+04	3.53
	5	83.80	82 -	86	84.14	1.78E+03	284.32	1.60E+04	1.44
	6	88.14	87 -	91	88.48	1.84E+03	244.51	1.13E+04	1.47
	7	94.54	92 -	97	94.88	1.08E+03	242.02	1.07E+04	1.94
	8	122.45	121 -	125	122.78	1.92E+02	175.05	6.65E+03	1.75
	9	143.91	138 -	147	144.23	1.73E+03	322.66	1.39E+04	2.01
	10	154.12	151 -	157	154.43	7.68E+02	236.42	9.59E+03	1.62
	11	186.33	183 -	189	186.63	2.36E+03	226.32	7.59E+03	1.78
	12	210.85	209 -	214	211.14	1.60E+02	160.12	4.99E+03	1.77
M	13	236.07	232 -	246	236.36	1.25E+03	130.23	3.07E+03	1.49
m	14	238.78	232 -	246	239.07	5.65E+02	203.66	5.10E+03	2.23
m	15	242.15	232 -	246	242.43	3.52E+03	172.55	3.42E+03	1.77
	16	256.45	252 -	262	256.73	1.09E+03	233.21	6.62E+03	2.10
M	17	270.40	267 -	277	270.67	2.40E+03	192.52	4.48E+03	2.75
m	18	274.52	267 -	277	274.79	1.82E+02	141.88	3.37E+03	1.84
	19	285.17	283 -	288	285.44	1.64E+02	130.64	3.26E+03	3.46
M	20	295.37	291 -	304	295.64	7.07E+03	199.95	2.56E+03	1.54
m	21	300.26	291 -	304	300.52	4.46E+02	138.33	3.08E+03	2.10
M	22	323.84	321 -	332	324.10	3.28E+02	100.01	1.92E+03	1.66
m	23	329.63	321 -	332	329.89	4.50E+02	102.46	1.95E+03	1.77
	24	338.45	336 -	342	338.71	1.84E+02	130.86	2.98E+03	1.75
	25	351.95	347 -	356	352.20	1.31E+04	282.17	3.87E+03	1.76
	26	387.04	382 -	391	387.27	2.13E+02	141.64	2.74E+03	4.24
M	27	401.80	398 -	409	402.03	4.98E+02	90.74	1.39E+03	1.83
m	28	404.94	398 -	409	405.17	3.08E+02	95.90	1.40E+03	1.83
	29	427.01	424 -	430	427.23	1.11E+02	108.50	2.06E+03	1.99
	30	445.60	442 -	449	445.82	1.64E+02	99.36	1.53E+03	2.46
	31	462.14	459 -	465	462.36	8.80E+01	89.37	1.37E+03	1.98
	32	487.00	484 -	491	487.20	1.26E+02	93.47	1.36E+03	1.84
	33	510.68	507 -	516	510.87	2.50E+02	106.14	1.47E+03	3.51
M	34	580.52	577 -	587	580.69	8.55E+01	88.63	1.17E+03	2.61
m	35	583.25	577 -	587	583.42	1.73E+02	71.97	8.50E+02	2.14
M	36	609.39	604 -	618	609.55	9.07E+03	197.40	5.95E+02	1.78
m	37	613.24	604 -	618	613.40	1.56E+02	156.99	7.43E+02	2.40
	38	665.62	662 -	670	665.76	2.25E+02	87.83	1.04E+03	1.76
	39	703.62	700 -	709	703.75	1.29E+02	82.43	9.02E+02	2.39
	40	719.79	716 -	724	719.91	8.71E+01	74.76	8.08E+02	2.42

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Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	743.65	740	748	743.76	1.04E+02	70.19	6.75E+02	3.13
	42	768.27	762	773	768.38	9.38E+02	107.37	9.72E+02	2.13
	43	786.07	782	790	786.17	2.03E+02	73.92	7.15E+02	1.77
	44	806.22	802	810	806.31	2.34E+02	74.48	7.07E+02	2.16
M	45	820.71	818	843	820.79	5.34E+01	43.35	3.65E+02	2.32
m	46	826.32	818	843	826.40	7.03E+01	57.02	5.28E+02	2.19
m	47	831.98	818	843	832.07	1.80E+02	62.09	5.50E+02	2.18
m	48	834.51	818	843	834.60	4.13E+01	61.93	5.58E+02	2.33
m	49	839.06	818	843	839.14	1.06E+02	58.78	5.75E+02	2.33
	50	910.75	905	914	910.80	1.68E+02	80.31	8.25E+02	2.33
	51	934.20	929	938	934.24	5.04E+02	88.46	8.30E+02	1.99
	52	963.56	960	967	963.60	1.13E+02	59.93	5.23E+02	4.67
M	53	1049.47	1048	1055	1049.47	2.75E+01	18.28	9.58E+01	1.48
m	54	1052.33	1048	1055	1052.34	5.39E+01	48.32	3.82E+02	2.35
M	55	1088.41	1087	1096	1088.41	2.18E+01	23.75	1.40E+02	1.56
m	56	1091.69	1087	1096	1091.68	5.88E+01	50.91	3.86E+02	2.72
	57	1120.41	1115	1125	1120.39	2.02E+03	115.72	7.09E+02	2.14
	58	1155.10	1150	1159	1155.07	2.82E+02	62.28	3.89E+02	2.12
	59	1207.70	1204	1211	1207.65	5.26E+01	50.68	3.95E+02	1.99
	60	1238.32	1234	1243	1238.25	6.50E+02	75.39	4.43E+02	2.04
	61	1280.87	1277	1284	1280.80	1.60E+02	53.40	3.71E+02	1.82
	62	1377.63	1373	1381	1377.52	4.75E+02	66.25	3.83E+02	2.24
	63	1384.85	1382	1388	1384.73	6.42E+01	42.95	2.86E+02	1.32
M	64	1401.93	1397	1413	1401.80	1.62E+02	41.83	2.00E+02	2.39
m	65	1408.10	1397	1413	1407.98	2.98E+02	47.90	1.94E+02	2.39
	66	1460.91	1456	1465	1460.77	3.62E+02	63.77	3.73E+02	2.06
	67	1508.85	1503	1514	1508.69	2.87E+02	67.88	4.34E+02	2.11
	68	1538.59	1536	1541	1538.42	5.94E+01	35.79	2.11E+02	2.38
	69	1545.51	1542	1550	1545.34	7.69E+01	44.21	2.36E+02	6.83
	70	1582.95	1578	1586	1582.76	4.93E+01	47.09	3.11E+02	1.74
	71	1661.44	1654	1666	1661.23	1.09E+02	46.95	2.08E+02	2.21
	72	1729.75	1724	1736	1729.51	3.33E+02	54.66	1.95E+02	2.30
	73	1764.54	1757	1770	1764.28	1.64E+03	88.45	1.40E+02	2.42
	74	1847.64	1843	1854	1847.35	2.01E+02	43.31	1.23E+02	2.61
	75	1895.48	1892	1899	1895.18	2.64E+01	23.24	7.32E+01	1.96
	76	1929.69	1927	1932	1929.37	1.55E+01	16.55	4.29E+01	3.66
	77	1937.10	1933	1942	1936.78	3.46E+01	23.41	5.48E+01	5.79
	78	1953.27	1949	1958	1952.94	2.20E+01	23.26	6.41E+01	3.02
	79	1961.03	1958	1964	1960.70	1.50E+01	14.49	2.61E+01	2.02
	80	1967.39	1964	1970	1967.06	1.22E+01	15.57	3.55E+01	3.71
	81	2118.56	2114	2124	2118.17	1.04E+02	24.88	2.62E+01	2.56
	82	2168.35	2166	2170	2167.94	1.03E+01	7.78	3.50E+00	2.83
	83	2204.00	2199	2209	2203.58	4.35E+02	43.11	1.36E+01	2.63
	84	2232.22	2229	2234	2231.78	5.43E+00	6.08	3.14E+00	2.52
	85	2252.17	2249	2255	2251.72	8.64E+00	8.28	4.73E+00	0.99
	86	2259.43	2256	2261	2258.98	1.15E+01	7.81	3.00E+00	1.95
M	87	2287.75	2286	2296	2287.29	7.92E+00	4.24	3.78E+00	3.30
m	88	2292.75	2286	2296	2292.30	2.86E+01	14.07	9.35E+00	3.30
	89	2321.15	2317	2325	2320.68	9.50E+00	9.82	9.00E+00	1.45
	90	2356.40	2353	2358	2355.92	5.00E+00	7.07	6.00E+00	1.45
	91	2447.54	2443	2453	2447.02	1.36E+02	23.32	0.00E+00	2.33
	92	2614.55	2610	2620	2613.97	5.90E+01	15.36	0.00E+00	2.71

699 EHT 8/6/15

Analysis Report for 1507047-11

FEEBRISID-11 085-086

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 9:25:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	32.06	31 -	35	1.92E+02	151.00	4.90E+03	1.22E+02
	2	46.62	44 -	49	1.72E+03	216.40	8.04E+03	1.64E+02
	3	67.87	65 -	70	4.14E+03	320.81	1.96E+04	6.91E+02
	4	76.35	73 -	79	4.49E+03	378.25	2.74E+04	3.54E+02
	5	83.80	82 -	86	1.78E+03	284.32	1.60E+04	2.23E+02
	6	88.14	87 -	91	1.84E+03	244.51	1.13E+04	1.88E+02
	7	94.54	92 -	97	1.08E+03	242.02	1.07E+04	1.91E+02
	8	122.45	121 -	125	1.92E+02	175.05	6.65E+03	1.42E+02
	9	143.91	138 -	147	1.73E+03	322.66	1.39E+04	2.56E+02
	10	154.12	151 -	157	7.68E+02	236.42	9.59E+03	1.89E+02
	11	186.33	183 -	189	2.36E+03	226.32	7.59E+03	1.68E+02
	12	210.85	209 -	214	1.60E+02	160.12	4.99E+03	1.30E+02
M	13	236.07	232 -	246	1.25E+03	130.23	3.07E+03	9.11E+01
m	14	238.78	232 -	246	5.65E+02	203.66	5.10E+03	1.17E+02
m	15	242.15	232 -	246	3.52E+03	172.55	3.42E+03	9.62E+01
	16	256.45	252 -	262	1.09E+03	233.21	6.62E+03	1.84E+02
M	17	270.40	267 -	277	2.40E+03	192.52	4.48E+03	1.10E+02
m	18	274.52	267 -	277	1.82E+02	141.88	3.37E+03	9.55E+01
	19	285.17	283 -	288	1.64E+02	130.64	3.26E+03	1.05E+02
M	20	295.37	291 -	304	7.07E+03	199.95	2.56E+03	8.32E+01
m	21	300.26	291 -	304	4.46E+02	138.33	3.08E+03	9.13E+01
M	22	323.84	321 -	332	3.28E+02	100.01	1.92E+03	7.21E+01
m	23	329.63	321 -	332	4.50E+02	102.46	1.95E+03	7.26E+01
	24	338.45	336 -	342	1.84E+02	130.86	2.98E+03	1.05E+02
	25	351.95	347 -	356	1.31E+04	282.17	3.87E+03	1.35E+02
	26	387.04	382 -	391	2.13E+02	141.64	2.74E+03	1.14E+02
M	27	401.80	398 -	409	4.98E+02	90.74	1.39E+03	6.13E+01
m	28	404.94	398 -	409	3.08E+02	95.90	1.40E+03	6.15E+01
	29	427.01	424 -	430	1.11E+02	108.50	2.06E+03	8.75E+01
	30	445.60	442 -	449	1.64E+02	99.36	1.53E+03	7.89E+01
	31	462.14	459 -	465	8.80E+01	89.37	1.37E+03	7.18E+01

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	32	487.00	484 -	491	1.26E+02	93.47	1.36E+03	7.46E+01
	33	510.68	507 -	516	2.50E+02	106.14	1.47E+03	8.33E+01
M	34	580.52	577 -	587	8.55E+01	88.63	1.17E+03	5.62E+01
m	35	583.25	577 -	587	1.73E+02	71.97	8.50E+02	4.79E+01
M	36	609.39	604 -	618	9.07E+03	197.40	5.95E+02	4.01E+01
m	37	613.24	604 -	618	1.56E+02	156.99	7.43E+02	4.48E+01
	38	665.62	662 -	670	2.25E+02	87.83	1.04E+03	6.79E+01
	39	703.62	700 -	709	1.29E+02	82.43	9.02E+02	6.51E+01
	40	719.79	716 -	724	8.71E+01	74.76	8.08E+02	5.95E+01
	41	743.65	740 -	748	1.04E+02	70.19	6.75E+02	5.52E+01
	42	768.27	762 -	773	9.38E+02	107.37	9.72E+02	7.25E+01
	43	786.07	782 -	790	2.03E+02	73.92	7.15E+02	5.61E+01
	44	806.22	802 -	810	2.34E+02	74.48	7.07E+02	5.58E+01
M	45	820.71	818 -	843	5.34E+01	43.35	3.65E+02	3.14E+01
m	46	826.32	818 -	843	7.03E+01	57.02	5.28E+02	3.78E+01
m	47	831.98	818 -	843	1.80E+02	62.09	5.50E+02	3.86E+01
m	48	834.51	818 -	843	4.13E+01	61.93	5.58E+02	3.88E+01
m	49	839.06	818 -	843	1.06E+02	58.78	5.75E+02	3.94E+01
	50	910.75	905 -	914	1.68E+02	80.31	8.25E+02	6.25E+01
	51	934.20	929 -	938	5.04E+02	88.46	8.30E+02	6.27E+01
	52	963.56	960 -	967	1.13E+02	59.93	5.23E+02	4.61E+01
M	53	1049.47	1048 -	1055	2.75E+01	18.28	9.58E+01	1.61E+01
m	54	1052.33	1048 -	1055	5.39E+01	48.32	3.82E+02	3.22E+01
M	55	1088.41	1087 -	1096	2.18E+01	23.75	1.40E+02	1.95E+01
m	56	1091.69	1087 -	1096	5.88E+01	50.91	3.86E+02	3.23E+01
	57	1120.41	1115 -	1125	2.02E+03	115.72	7.09E+02	6.00E+01
	58	1155.10	1150 -	1159	2.82E+02	62.28	3.89E+02	4.31E+01
	59	1207.70	1204 -	1211	5.26E+01	50.68	3.95E+02	3.99E+01
	60	1238.32	1234 -	1243	6.50E+02	75.39	4.43E+02	4.57E+01
	61	1280.87	1277 -	1284	1.60E+02	53.40	3.71E+02	3.87E+01
	62	1377.63	1373 -	1381	4.75E+02	66.25	3.83E+02	4.10E+01
	63	1384.85	1382 -	1388	6.42E+01	42.95	2.86E+02	3.28E+01
M	64	1401.93	1397 -	1413	1.62E+02	41.83	2.00E+02	2.32E+01
m	65	1408.10	1397 -	1413	2.98E+02	47.90	1.94E+02	2.29E+01
	66	1460.91	1456 -	1465	3.62E+02	63.77	3.73E+02	4.21E+01
	67	1508.85	1503 -	1514	2.87E+02	67.88	4.34E+02	4.84E+01
	68	1538.59	1536 -	1541	5.94E+01	35.79	2.11E+02	2.66E+01
	69	1545.51	1542 -	1550	7.69E+01	44.21	2.36E+02	3.34E+01
	70	1582.95	1578 -	1586	4.93E+01	47.09	3.11E+02	3.69E+01
	71	1661.44	1654 -	1666	1.09E+02	46.95	2.08E+02	3.46E+01
	72	1729.75	1724 -	1736	3.33E+02	54.66	1.95E+02	3.35E+01
	73	1764.54	1757 -	1770	1.64E+03	88.45	1.40E+02	2.92E+01
	74	1847.64	1843 -	1854	2.01E+02	43.31	1.23E+02	2.69E+01
	75	1895.48	1892 -	1899	2.64E+01	23.24	7.32E+01	1.71E+01
	76	1929.69	1927 -	1932	1.55E+01	16.55	4.29E+01	1.20E+01
	77	1937.10	1933 -	1942	3.46E+01	23.41	5.48E+01	1.66E+01
	78	1953.27	1949 -	1958	2.20E+01	23.26	6.41E+01	1.75E+01
	79	1961.03	1958 -	1964	1.50E+01	14.49	2.61E+01	1.01E+01
	80	1967.39	1964 -	1970	1.22E+01	15.57	3.55E+01	1.14E+01
	81	2118.56	2114 -	2124	1.04E+02	24.88	2.62E+01	1.17E+01
	82	2168.35	2166 -	2170	1.03E+01	7.78	3.50E+00	3.63E+00

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	83	2204.00	2199 -	2209	4.35E+02	43.11	1.36E+01	8.93E+00
	84	2232.22	2229 -	2234	5.43E+00	6.08	3.14E+00	3.21E+00
	85	2252.17	2249 -	2255	8.64E+00	8.28	4.73E+00	4.79E+00
	86	2259.43	2256 -	2261	1.15E+01	7.81	3.00E+00	3.18E+00
M	87	2287.75	2286 -	2296	7.92E+00	4.24	3.78E+00	3.20E+00
m	88	2292.75	2286 -	2296	2.86E+01	14.07	9.35E+00	5.03E+00
	89	2321.15	2317 -	2325	9.50E+00	9.82	9.00E+00	6.29E+00
	90	2356.40	2353 -	2358	5.00E+00	7.07	6.00E+00	4.50E+00
	91	2447.54	2443 -	2453	1.36E+02	23.32	0.00E+00	0.00E+00
	92	2614.55	2610 -	2620	5.90E+01	15.36	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 9:25:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	32.06	31 -	35	32.41	1.92E+02	151.00	4.90E+03	.....
2	46.62	44 -	49	46.97	1.72E+03	216.40	8.04E+03	PB-210
3	67.87	65 -	70	68.21	4.14E+03	320.81	1.96E+04	TI-44
								TA-182
								TH-230
4	76.35	73 -	79	76.69	4.49E+03	378.25	2.74E+04	.....
5	83.80	82 -	86	84.14	1.78E+03	284.32	1.60E+04	TH-231
6	88.14	87 -	91	88.48	1.84E+03	244.51	1.13E+04	CD-109
								LU-176
								SN-126
7	94.54	92 -	97	94.88	1.08E+03	242.02	1.07E+04	.....
8	122.45	121 -	125	122.78	1.92E+02	175.05	6.65E+03	CO-57
								EU-154
								EU-152
9	143.91	138 -	147	144.23	1.73E+03	322.66	1.39E+04	U-235
10	154.12	151 -	157	154.43	7.68E+02	236.42	9.59E+03	CS-136

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	11	186.33	183 -	189	186.63	2.36E+03	226.32	7.59E+03	RA-226
	12	210.85	209 -	214	211.14	1.60E+02	160.12	4.99E+03	.....
M	13	236.07	232 -	246	236.36	1.25E+03	130.23	3.07E+03	TH-227 NB-95M
m	14	238.78	232 -	246	239.07	5.65E+02	203.66	5.10E+03	PB-212
m	15	242.15	232 -	246	242.43	3.52E+03	172.55	3.42E+03	.....
	16	256.45	252 -	262	256.73	1.09E+03	233.21	6.62E+03	TH-227
M	17	270.40	267 -	277	270.67	2.40E+03	192.52	4.48E+03	.....
m	18	274.52	267 -	277	274.79	1.82E+02	141.88	3.37E+03	CS-136
	19	285.17	283 -	288	285.44	1.64E+02	130.64	3.26E+03	PM-149 I-131
M	20	295.37	291 -	304	295.64	7.07E+03	199.95	2.56E+03	PB-214
m	21	300.26	291 -	304	300.52	4.46E+02	138.33	3.08E+03	GA-67 PB-212 BI-210M
M	22	323.84	321 -	332	324.10	3.28E+02	100.01	1.92E+03	RA-223
m	23	329.63	321 -	332	329.89	4.50E+02	102.46	1.95E+03	LA-140
	24	338.45	336 -	342	338.71	1.84E+02	130.86	2.98E+03	AC-228
	25	351.95	347 -	356	352.20	1.31E+04	282.17	3.87E+03	PB-214
	26	387.04	382 -	391	387.27	2.13E+02	141.64	2.74E+03	.....
M	27	401.80	398 -	409	402.03	4.98E+02	90.74	1.39E+03	RN-219
m	28	404.94	398 -	409	405.17	3.08E+02	95.90	1.40E+03	PB-211
	29	427.01	424 -	430	427.23	1.11E+02	108.50	2.06E+03	SB-125
	30	445.60	442 -	449	445.82	1.64E+02	99.36	1.53E+03	.....
	31	462.14	459 -	465	462.36	8.80E+01	89.37	1.37E+03	.....
	32	487.00	484 -	491	487.20	1.26E+02	93.47	1.36E+03	LA-140
	33	510.68	507 -	516	510.87	2.50E+02	106.14	1.47E+03	.....
M	34	580.52	577 -	587	580.69	8.55E+01	88.63	1.17E+03	.....
m	35	583.25	577 -	587	583.42	1.73E+02	71.97	8.50E+02	TL-208
M	36	609.39	604 -	618	609.55	9.07E+03	197.40	5.95E+02	BI-214
m	37	613.24	604 -	618	613.40	1.56E+02	156.99	7.43E+02	.....
	38	665.62	662 -	670	665.76	2.25E+02	87.83	1.04E+03	SB-126
	39	703.62	700 -	709	703.75	1.29E+02	82.43	9.02E+02	NB-94
	40	719.79	716 -	724	719.91	8.71E+01	74.76	8.08E+02	SB-126
	41	743.65	740 -	748	743.76	1.04E+02	70.19	6.75E+02	.....
	42	768.27	762 -	773	768.38	9.38E+02	107.37	9.72E+02	.....
	43	786.07	782 -	790	786.17	2.03E+02	73.92	7.15E+02	.....
	44	806.22	802 -	810	806.31	2.34E+02	74.48	7.07E+02	.....
M	45	820.71	818 -	843	820.79	5.34E+01	43.35	3.65E+02	.....
m	46	826.32	818 -	843	826.40	7.03E+01	57.02	5.28E+02	.....
m	47	831.98	818 -	843	832.07	1.80E+02	62.09	5.50E+02	PB-211
m	48	834.51	818 -	843	834.60	4.13E+01	61.93	5.58E+02	MN-54
m	49	839.06	818 -	843	839.14	1.06E+02	58.78	5.75E+02	.....
	50	910.75	905 -	914	910.80	1.68E+02	80.31	8.25E+02	AC-228
	51	934.20	929 -	938	934.24	5.04E+02	88.46	8.30E+02	.....
	52	963.56	960 -	967	963.60	1.13E+02	59.93	5.23E+02	EU-152
M	53	1049.47	1048 -	1055	1049.47	2.75E+01	18.28	9.58E+01	.....
m	54	1052.33	1048 -	1055	1052.34	5.39E+01	48.32	3.82E+02	.....
M	55	1088.41	1087 -	1096	1088.41	2.18E+01	23.75	1.40E+02	.....
m	56	1091.69	1087 -	1096	1091.68	5.88E+01	50.91	3.86E+02	.....
	57	1120.41	1115 -	1125	1120.39	2.02E+03	115.72	7.09E+02	SC-46 BI-214 TA-182
	58	1155.10	1150 -	1159	1155.07	2.82E+02	62.28	3.89E+02	.....

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	59	1207.70	1204 -	1211	1207.65	5.26E+01	50.68	3.95E+02	.....
	60	1238.32	1234 -	1243	1238.25	6.50E+02	75.39	4.43E+02	CO-56
	61	1280.87	1277 -	1284	1280.80	1.60E+02	53.40	3.71E+02	.....
	62	1377.63	1373 -	1381	1377.52	4.75E+02	66.25	3.83E+02	.....
	63	1384.85	1382 -	1388	1384.73	6.42E+01	42.95	2.86E+02	AG-110M
M	64	1401.93	1397 -	1413	1401.80	1.62E+02	41.83	2.00E+02	.....
m	65	1408.10	1397 -	1413	1407.98	2.98E+02	47.90	1.94E+02	EU-152
	66	1460.91	1456 -	1465	1460.77	3.62E+02	63.77	3.73E+02	K-40
	67	1508.85	1503 -	1514	1508.69	2.87E+02	67.88	4.34E+02	.....
	68	1538.59	1536 -	1541	1538.42	5.94E+01	35.79	2.11E+02	.....
	69	1545.51	1542 -	1550	1545.34	7.69E+01	44.21	2.36E+02	.....
	70	1582.95	1578 -	1586	1582.76	4.93E+01	47.09	3.11E+02	.....
	71	1661.44	1654 -	1666	1661.23	1.09E+02	46.95	2.08E+02	.....
	72	1729.75	1724 -	1736	1729.51	3.33E+02	54.66	1.95E+02	.....
	73	1764.54	1757 -	1770	1764.28	1.64E+03	88.45	1.40E+02	BI-214
	74	1847.64	1843 -	1854	1847.35	2.01E+02	43.31	1.23E+02	.....
	75	1895.48	1892 -	1899	1895.18	2.64E+01	23.24	7.32E+01	.....
	76	1929.69	1927 -	1932	1929.37	1.55E+01	16.55	4.29E+01	.....
	77	1937.10	1933 -	1942	1936.78	3.46E+01	23.41	5.48E+01	.....
	78	1953.27	1949 -	1958	1952.94	2.20E+01	23.26	6.41E+01	.....
	79	1961.03	1958 -	1964	1960.70	1.50E+01	14.49	2.61E+01	.....
	80	1967.39	1964 -	1970	1967.06	1.22E+01	15.57	3.55E+01	.....
	81	2118.56	2114 -	2124	2118.17	1.04E+02	24.88	2.62E+01	.....
	82	2168.35	2166 -	2170	2167.94	1.03E+01	7.78	3.50E+00	.....
	83	2204.00	2199 -	2209	2203.58	4.35E+02	43.11	1.36E+01	BI-214
	84	2232.22	2229 -	2234	2231.78	5.43E+00	6.08	3.14E+00	.....
	85	2252.17	2249 -	2255	2251.72	8.64E+00	8.28	4.73E+00	.....
	86	2259.43	2256 -	2261	2258.98	1.15E+01	7.81	3.00E+00	.....
M	87	2287.75	2286 -	2296	2287.29	7.92E+00	4.24	3.78E+00	.....
m	88	2292.75	2286 -	2296	2292.30	2.86E+01	14.07	9.35E+00	.....
	89	2321.15	2317 -	2325	2320.68	9.50E+00	9.82	9.00E+00	.....
	90	2356.40	2353 -	2358	2355.92	5.00E+00	7.07	6.00E+00	.....
	91	2447.54	2443 -	2453	2447.02	1.36E+02	23.32	0.00E+00	.....
	92	2614.55	2610 -	2620	2613.97	5.90E+01	15.36	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 9:25:58AM

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	32.06	1.92E+02	151.00	6.04E-03	1.78E-03
	2	46.62	1.72E+03	216.40	1.69E-02	1.78E-03
	3	67.87	4.14E+03	320.81	2.62E-02	2.06E-03
	4	76.35	4.49E+03	378.25	2.77E-02	2.35E-03
	5	83.80	1.78E+03	284.32	2.83E-02	2.60E-03
	6	88.14	1.84E+03	244.51	2.85E-02	2.74E-03
	7	94.54	1.08E+03	242.02	2.86E-02	2.61E-03
	8	122.45	1.92E+02	175.05	2.72E-02	2.07E-03
	9	143.91	1.73E+03	322.66	2.56E-02	2.12E-03
	10	154.12	7.68E+02	236.42	2.48E-02	2.15E-03
	11	186.33	2.36E+03	226.32	2.24E-02	2.02E-03
	12	210.85	1.60E+02	160.12	2.08E-02	1.84E-03
M	13	236.07	1.25E+03	130.23	1.94E-02	1.66E-03
m	14	238.78	5.65E+02	203.66	1.92E-02	1.64E-03
m	15	242.15	3.52E+03	172.55	1.90E-02	1.61E-03
	16	256.45	1.09E+03	233.21	1.83E-02	1.51E-03
M	17	270.40	2.40E+03	192.52	1.77E-02	1.40E-03
m	18	274.52	1.82E+02	141.88	1.75E-02	1.37E-03
	19	285.17	1.64E+02	130.64	1.71E-02	1.33E-03
M	20	295.37	7.07E+03	199.95	1.67E-02	1.31E-03
m	21	300.26	4.46E+02	138.33	1.65E-02	1.30E-03
M	22	323.84	3.28E+02	100.01	1.57E-02	1.25E-03
m	23	329.63	4.50E+02	102.46	1.55E-02	1.24E-03
	24	338.45	1.84E+02	130.86	1.52E-02	1.22E-03
	25	351.95	1.31E+04	282.17	1.48E-02	1.19E-03
	26	387.04	2.13E+02	141.64	1.38E-02	1.12E-03
M	27	401.80	4.98E+02	90.74	1.34E-02	1.10E-03
m	28	404.94	3.08E+02	95.90	1.34E-02	1.10E-03
	29	427.01	1.11E+02	108.50	1.28E-02	1.08E-03
	30	445.60	1.64E+02	99.36	1.25E-02	1.06E-03
	31	462.14	8.80E+01	89.37	1.21E-02	1.04E-03
	32	487.00	1.26E+02	93.47	1.17E-02	1.02E-03
	33	510.68	2.50E+02	106.14	1.12E-02	9.91E-04
M	34	580.52	8.55E+01	88.63	1.02E-02	9.18E-04
m	35	583.25	1.73E+02	71.97	1.02E-02	9.15E-04
M	36	609.39	9.07E+03	197.40	9.83E-03	8.88E-04
m	37	613.24	1.56E+02	156.99	9.78E-03	8.84E-04
	38	665.62	2.25E+02	87.83	9.17E-03	8.31E-04
	39	703.62	1.29E+02	82.43	8.78E-03	7.97E-04
	40	719.79	8.71E+01	74.76	8.63E-03	7.82E-04
	41	743.65	1.04E+02	70.19	8.41E-03	7.61E-04
	42	768.27	9.38E+02	107.37	8.19E-03	7.39E-04
	43	786.07	2.03E+02	73.92	8.04E-03	7.23E-04
	44	806.22	2.34E+02	74.48	7.88E-03	7.05E-04
M	45	820.71	5.34E+01	43.35	7.77E-03	6.92E-04
m	46	826.32	7.03E+01	57.02	7.73E-03	6.87E-04
m	47	831.98	1.80E+02	62.09	7.69E-03	6.82E-04
m	48	834.51	4.13E+01	61.93	7.67E-03	6.79E-04
m	49	839.06	1.06E+02	58.78	7.63E-03	6.75E-04
	50	910.75	1.68E+02	80.31	7.15E-03	6.16E-04
	51	934.20	5.04E+02	88.46	7.01E-03	6.04E-04
	52	963.56	1.13E+02	59.93	6.84E-03	5.88E-04
M	53	1049.47	2.75E+01	18.28	6.39E-03	5.44E-04

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	54	1052.33	5.39E+01	48.32	6.37E-03	5.42E-04
M	55	1088.41	2.18E+01	23.75	6.21E-03	5.23E-04
m	56	1091.69	5.88E+01	50.91	6.19E-03	5.22E-04
	57	1120.41	2.02E+03	115.72	6.07E-03	5.07E-04
	58	1155.10	2.82E+02	62.28	5.92E-03	4.89E-04
	59	1207.70	5.26E+01	50.68	5.72E-03	4.73E-04
	60	1238.32	6.50E+02	75.39	5.61E-03	4.68E-04
	61	1280.87	1.60E+02	53.40	5.47E-03	4.60E-04
	62	1377.63	4.75E+02	66.25	5.18E-03	4.40E-04
	63	1384.85	6.42E+01	42.95	5.16E-03	4.38E-04
M	64	1401.93	1.62E+02	41.83	5.12E-03	4.34E-04
m	65	1408.10	2.98E+02	47.90	5.10E-03	4.32E-04
	66	1460.91	3.62E+02	63.77	4.97E-03	4.19E-04
	67	1508.85	2.87E+02	67.88	4.86E-03	4.07E-04
	68	1538.59	5.94E+01	35.79	4.80E-03	4.00E-04
	69	1545.51	7.69E+01	44.21	4.78E-03	3.98E-04
	70	1582.95	4.93E+01	47.09	4.71E-03	3.89E-04
	71	1661.44	1.09E+02	46.95	4.56E-03	3.69E-04
	72	1729.75	3.33E+02	54.66	4.45E-03	3.52E-04
	73	1764.54	1.64E+03	88.45	4.40E-03	3.44E-04
	74	1847.64	2.01E+02	43.31	4.28E-03	3.26E-04
	75	1895.48	2.64E+01	23.24	4.22E-03	3.26E-04
	76	1929.69	1.55E+01	16.55	4.18E-03	3.26E-04
	77	1937.10	3.46E+01	23.41	4.18E-03	3.26E-04
	78	1953.27	2.20E+01	23.26	4.16E-03	3.26E-04
	79	1961.03	1.50E+01	14.49	4.15E-03	3.26E-04
	80	1967.39	1.22E+01	15.57	4.14E-03	3.26E-04
	81	2118.56	1.04E+02	24.88	4.01E-03	3.26E-04
	82	2168.35	1.03E+01	7.78	3.97E-03	3.26E-04
	83	2204.00	4.35E+02	43.11	3.95E-03	3.26E-04
	84	2232.22	5.43E+00	6.08	3.93E-03	3.26E-04
	85	2252.17	8.64E+00	8.28	3.92E-03	3.26E-04
	86	2259.43	1.15E+01	7.81	3.92E-03	3.26E-04
M	87	2287.75	7.92E+00	4.24	3.90E-03	3.26E-04
m	88	2292.75	2.86E+01	14.07	3.90E-03	3.26E-04
	89	2321.15	9.50E+00	9.82	3.88E-03	3.26E-04
	90	2356.40	5.00E+00	7.07	3.87E-03	3.26E-04
	91	2447.54	1.36E+02	23.32	3.83E-03	3.26E-04
	92	2614.55	5.90E+01	15.36	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 9:25:58AM

Analysis Report for 1507047-11

FEEBRISID-11 085-086

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	32.06	1.92E+02	151.00			1.92E+02	1.51E+02
	2	46.62	1.72E+03	216.40	4.67E+01	7.87E+00	1.68E+03	2.17E+02
	3	67.87	4.14E+03	320.81			4.14E+03	3.21E+02
	4	76.35	4.49E+03	378.25	1.37E+01	4.21E+00	4.48E+03	3.78E+02
	5	83.80	1.78E+03	284.32	9.79E-01	8.41E+00	1.78E+03	2.84E+02
	6	88.14	1.84E+03	244.51			1.84E+03	2.45E+02
	7	94.54	1.08E+03	242.02			1.08E+03	2.42E+02
	8	122.45	1.92E+02	175.05			1.92E+02	1.75E+02
	9	143.91	1.73E+03	322.66	8.50E+00	7.50E+00	1.72E+03	3.23E+02
	10	154.12	7.68E+02	236.42			7.68E+02	2.36E+02
	11	186.33	2.36E+03	226.32	6.17E+01	7.27E+00	2.30E+03	2.26E+02
	12	210.85	1.60E+02	160.12			1.60E+02	1.60E+02
M	13	236.07	1.25E+03	130.23			1.25E+03	1.30E+02
m	14	238.78	5.65E+02	203.66	1.90E+01	5.64E+00	5.46E+02	2.04E+02
m	15	242.15	3.52E+03	172.55			3.52E+03	1.73E+02
	16	256.45	1.09E+03	233.21			1.09E+03	2.33E+02
M	17	270.40	2.40E+03	192.52			2.40E+03	1.93E+02
m	18	274.52	1.82E+02	141.88			1.82E+02	1.42E+02
	19	285.17	1.64E+02	130.64			1.64E+02	1.31E+02
M	20	295.37	7.07E+03	199.95	3.06E+00	4.82E+00	7.07E+03	2.00E+02
m	21	300.26	4.46E+02	138.33			4.46E+02	1.38E+02
M	22	323.84	3.28E+02	100.01			3.28E+02	1.00E+02
m	23	329.63	4.50E+02	102.46			4.50E+02	1.02E+02
	24	338.45	1.84E+02	130.86			1.84E+02	1.31E+02
	25	351.95	1.31E+04	282.17	1.06E+01	4.49E+00	1.31E+04	2.82E+02
	26	387.04	2.13E+02	141.64			2.13E+02	1.42E+02
M	27	401.80	4.98E+02	90.74			4.98E+02	9.07E+01
m	28	404.94	3.08E+02	95.90			3.08E+02	9.59E+01
	29	427.01	1.11E+02	108.50			1.11E+02	1.08E+02
	30	445.60	1.64E+02	99.36			1.64E+02	9.94E+01
	31	462.14	8.80E+01	89.37			8.80E+01	8.94E+01
	32	487.00	1.26E+02	93.47			1.26E+02	9.35E+01
	33	510.68	2.50E+02	106.14	8.80E+01	5.43E+00	1.62E+02	1.06E+02
M	34	580.52	8.55E+01	88.63			8.55E+01	8.86E+01
m	35	583.25	1.73E+02	71.97	3.96E+00	4.13E+00	1.69E+02	7.21E+01
M	36	609.39	9.07E+03	197.40	8.00E+00	4.15E+00	9.06E+03	1.97E+02
m	37	613.24	1.56E+02	156.99			1.56E+02	1.57E+02
	38	665.62	2.25E+02	87.83			2.25E+02	8.78E+01
	39	703.62	1.29E+02	82.43			1.29E+02	8.24E+01
	40	719.79	8.71E+01	74.76			8.71E+01	7.48E+01
	41	743.65	1.04E+02	70.19			1.04E+02	7.02E+01
	42	768.27	9.38E+02	107.37			9.38E+02	1.07E+02
	43	786.07	2.03E+02	73.92			2.03E+02	7.39E+01
	44	806.22	2.34E+02	74.48			2.34E+02	7.45E+01
M	45	820.71	5.34E+01	43.35			5.34E+01	4.33E+01
m	46	826.32	7.03E+01	57.02			7.03E+01	5.70E+01
m	47	831.98	1.80E+02	62.09			1.80E+02	6.21E+01
m	48	834.51	4.13E+01	61.93			4.13E+01	6.19E+01
m	49	839.06	1.06E+02	58.78			1.06E+02	5.88E+01

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	50	910.75	1.68E+02	80.31	3.29E+00	3.12E+00	1.65E+02	8.04E+01
	51	934.20	5.04E+02	88.46			5.04E+02	8.85E+01
	52	963.56	1.13E+02	59.93			1.13E+02	5.99E+01
M	53	1049.47	2.75E+01	18.28			2.75E+01	1.83E+01
m	54	1052.33	5.39E+01	48.32			5.39E+01	4.83E+01
M	55	1088.41	2.18E+01	23.75			2.18E+01	2.37E+01
m	56	1091.69	5.88E+01	50.91			5.88E+01	5.09E+01
	57	1120.41	2.02E+03	115.72			2.02E+03	1.16E+02
	58	1155.10	2.82E+02	62.28			2.82E+02	6.23E+01
	59	1207.70	5.26E+01	50.68			5.26E+01	5.07E+01
	60	1238.32	6.50E+02	75.39			6.50E+02	7.54E+01
	61	1280.87	1.60E+02	53.40			1.60E+02	5.34E+01
	62	1377.63	4.75E+02	66.25			4.75E+02	6.63E+01
	63	1384.85	6.42E+01	42.95			6.42E+01	4.30E+01
M	64	1401.93	1.62E+02	41.83			1.62E+02	4.18E+01
m	65	1408.10	2.98E+02	47.90			2.98E+02	4.79E+01
	66	1460.91	3.62E+02	63.77	5.51E+00	2.16E+00	3.56E+02	6.38E+01
	67	1508.85	2.87E+02	67.88			2.87E+02	6.79E+01
	68	1538.59	5.94E+01	35.79			5.94E+01	3.58E+01
	69	1545.51	7.69E+01	44.21			7.69E+01	4.42E+01
	70	1582.95	4.93E+01	47.09			4.93E+01	4.71E+01
	71	1661.44	1.09E+02	46.95			1.09E+02	4.69E+01
	72	1729.75	3.33E+02	54.66			3.33E+02	5.47E+01
	73	1764.54	1.64E+03	88.45	1.06E+00	1.86E+00	1.64E+03	8.85E+01
	74	1847.64	2.01E+02	43.31			2.01E+02	4.33E+01
	75	1895.48	2.64E+01	23.24			2.64E+01	2.32E+01
	76	1929.69	1.55E+01	16.55			1.55E+01	1.66E+01
	77	1937.10	3.46E+01	23.41			3.46E+01	2.34E+01
	78	1953.27	2.20E+01	23.26			2.20E+01	2.33E+01
	79	1961.03	1.50E+01	14.49			1.50E+01	1.45E+01
	80	1967.39	1.22E+01	15.57			1.22E+01	1.56E+01
	81	2118.56	1.04E+02	24.88			1.04E+02	2.49E+01
	82	2168.35	1.03E+01	7.78			1.03E+01	7.78E+00
	83	2204.00	4.35E+02	43.11			4.35E+02	4.31E+01
	84	2232.22	5.43E+00	6.08			5.43E+00	6.08E+00
	85	2252.17	8.64E+00	8.28			8.64E+00	8.28E+00
	86	2259.43	1.15E+01	7.81			1.15E+01	7.81E+00
M	87	2287.75	7.92E+00	4.24			7.92E+00	4.24E+00
m	88	2292.75	2.86E+01	14.07			2.86E+01	1.41E+01
	89	2321.15	9.50E+00	9.82			9.50E+00	9.82E+00
	90	2356.40	5.00E+00	7.07			5.00E+00	7.07E+00
	91	2447.54	1.36E+02	23.32			1.36E+02	2.33E+01
	92	2614.55	5.90E+01	15.36	3.94E+00	1.34E+00	5.51E+01	1.54E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-11

FEEBRISID-11 085-086

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 9:25:58AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	32.06	1.92E+02	151.00			1.92E+02	1.51E+02
	2	46.62	1.72E+03	216.40	4.67E+01	7.87E+00	1.68E+03	2.17E+02
	3	67.87	4.14E+03	320.81			4.14E+03	3.21E+02
	4	76.35	4.49E+03	378.25	1.37E+01	4.21E+00	4.48E+03	3.78E+02
	5	83.80	1.78E+03	284.32	9.79E-01	8.41E+00	1.78E+03	2.84E+02
	6	88.14	1.84E+03	244.51			1.84E+03	2.45E+02
	7	94.54	1.08E+03	242.02			1.08E+03	2.42E+02
	8	122.45	1.92E+02	175.05			1.92E+02	1.75E+02
	9	143.91	1.73E+03	322.66	8.50E+00	7.50E+00	1.72E+03	3.23E+02
	10	154.12	7.68E+02	236.42			7.68E+02	2.36E+02
	11	186.33	2.36E+03	226.32	6.17E+01	7.27E+00	2.30E+03	2.26E+02
	12	210.85	1.60E+02	160.12			1.60E+02	1.60E+02
M	13	236.07	1.25E+03	130.23			1.25E+03	1.30E+02
m	14	238.78	5.65E+02	203.66	1.90E+01	5.64E+00	5.46E+02	2.04E+02
m	15	242.15	3.52E+03	172.55			3.52E+03	1.73E+02
	16	256.45	1.09E+03	233.21			1.09E+03	2.33E+02
M	17	270.40	2.40E+03	192.52			2.40E+03	1.93E+02
m	18	274.52	1.82E+02	141.88			1.82E+02	1.42E+02
	19	285.17	1.64E+02	130.64			1.64E+02	1.31E+02
M	20	295.37	7.07E+03	199.95	3.06E+00	4.82E+00	7.07E+03	2.00E+02
m	21	300.26	4.46E+02	138.33			4.46E+02	1.38E+02
M	22	323.84	3.28E+02	100.01			3.28E+02	1.00E+02
m	23	329.63	4.50E+02	102.46			4.50E+02	1.02E+02
	24	338.45	1.84E+02	130.86			1.84E+02	1.31E+02
	25	351.95	1.31E+04	282.17	1.06E+01	4.49E+00	1.31E+04	2.82E+02
	26	387.04	2.13E+02	141.64			2.13E+02	1.42E+02
M	27	401.80	4.98E+02	90.74			4.98E+02	9.07E+01
m	28	404.94	3.08E+02	95.90			3.08E+02	9.59E+01
	29	427.01	1.11E+02	108.50			1.11E+02	1.08E+02
	30	445.60	1.64E+02	99.36			1.64E+02	9.94E+01
	31	462.14	8.80E+01	89.37			8.80E+01	8.94E+01
	32	487.00	1.26E+02	93.47			1.26E+02	9.35E+01
	33	510.68	2.50E+02	106.14	8.80E+01	5.43E+00	1.62E+02	1.06E+02
M	34	580.52	8.55E+01	88.63			8.55E+01	8.86E+01
m	35	583.25	1.73E+02	71.97	3.96E+00	4.13E+00	1.69E+02	7.21E+01
M	36	609.39	9.07E+03	197.40	8.00E+00	4.15E+00	9.06E+03	1.97E+02
m	37	613.24	1.56E+02	156.99			1.56E+02	1.57E+02
	38	665.62	2.25E+02	87.83			2.25E+02	8.78E+01
	39	703.62	1.29E+02	82.43			1.29E+02	8.24E+01
	40	719.79	8.71E+01	74.76			8.71E+01	7.48E+01
	41	743.65	1.04E+02	70.19			1.04E+02	7.02E+01

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	42	768.27	9.38E+02	107.37			9.38E+02	1.07E+02
	43	786.07	2.03E+02	73.92			2.03E+02	7.39E+01
	44	806.22	2.34E+02	74.48			2.34E+02	7.45E+01
M	45	820.71	5.34E+01	43.35			5.34E+01	4.33E+01
m	46	826.32	7.03E+01	57.02			7.03E+01	5.70E+01
m	47	831.98	1.80E+02	62.09			1.80E+02	6.21E+01
m	48	834.51	4.13E+01	61.93			4.13E+01	6.19E+01
m	49	839.06	1.06E+02	58.78			1.06E+02	5.88E+01
	50	910.75	1.68E+02	80.31	3.29E+00	3.12E+00	1.65E+02	8.04E+01
	51	934.20	5.04E+02	88.46			5.04E+02	8.85E+01
	52	963.56	1.13E+02	59.93			1.13E+02	5.99E+01
M	53	1049.47	2.75E+01	18.28			2.75E+01	1.83E+01
m	54	1052.33	5.39E+01	48.32			5.39E+01	4.83E+01
M	55	1088.41	2.18E+01	23.75			2.18E+01	2.37E+01
m	56	1091.69	5.88E+01	50.91			5.88E+01	5.09E+01
	57	1120.41	2.02E+03	115.72			2.02E+03	1.16E+02
	58	1155.10	2.82E+02	62.28			2.82E+02	6.23E+01
	59	1207.70	5.26E+01	50.68			5.26E+01	5.07E+01
	60	1238.32	6.50E+02	75.39			6.50E+02	7.54E+01
	61	1280.87	1.60E+02	53.40			1.60E+02	5.34E+01
	62	1377.63	4.75E+02	66.25			4.75E+02	6.63E+01
	63	1384.85	6.42E+01	42.95			6.42E+01	4.30E+01
M	64	1401.93	1.62E+02	41.83			1.62E+02	4.18E+01
m	65	1408.10	2.98E+02	47.90			2.98E+02	4.79E+01
	66	1460.91	3.62E+02	63.77	5.51E+00	2.16E+00	3.56E+02	6.38E+01
	67	1508.85	2.87E+02	67.88			2.87E+02	6.79E+01
	68	1538.59	5.94E+01	35.79			5.94E+01	3.58E+01
	69	1545.51	7.69E+01	44.21			7.69E+01	4.42E+01
	70	1582.95	4.93E+01	47.09			4.93E+01	4.71E+01
	71	1661.44	1.09E+02	46.95			1.09E+02	4.69E+01
	72	1729.75	3.33E+02	54.66			3.33E+02	5.47E+01
	73	1764.54	1.64E+03	88.45	1.06E+00	1.86E+00	1.64E+03	8.85E+01
	74	1847.64	2.01E+02	43.31			2.01E+02	4.33E+01
	75	1895.48	2.64E+01	23.24			2.64E+01	2.32E+01
	76	1929.69	1.55E+01	16.55			1.55E+01	1.66E+01
	77	1937.10	3.46E+01	23.41			3.46E+01	2.34E+01
	78	1953.27	2.20E+01	23.26			2.20E+01	2.33E+01
	79	1961.03	1.50E+01	14.49			1.50E+01	1.45E+01
	80	1967.39	1.22E+01	15.57			1.22E+01	1.56E+01
	81	2118.56	1.04E+02	24.88			1.04E+02	2.49E+01
	82	2168.35	1.03E+01	7.78			1.03E+01	7.78E+00
	83	2204.00	4.35E+02	43.11			4.35E+02	4.31E+01
	84	2232.22	5.43E+00	6.08			5.43E+00	6.08E+00
	85	2252.17	8.64E+00	8.28			8.64E+00	8.28E+00
	86	2259.43	1.15E+01	7.81			1.15E+01	7.81E+00
M	87	2287.75	7.92E+00	4.24			7.92E+00	4.24E+00
m	88	2292.75	2.86E+01	14.07			2.86E+01	1.41E+01
	89	2321.15	9.50E+00	9.82			9.50E+00	9.82E+00
	90	2356.40	5.00E+00	7.07			5.00E+00	7.07E+00
	91	2447.54	1.36E+02	23.32			1.36E+02	2.33E+01
	92	2614.55	5.90E+01	15.36	3.94E+00	1.34E+00	5.51E+01	1.54E+01

Analysis Report for 1507047-11

FEEBRISID-11 085-086

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.998	1460.81	*	10.67	8.30E+00	1.65E+00
MN-54	0.984	834.83	*	99.97	7.15E-02	1.07E-01
CO-57	0.805	122.06	*	85.51	1.11E-01	1.01E-01
		136.48		10.60		
CD-109	0.998	88.03	*	3.72	2.25E+01	3.92E+00
SN-126	0.949	87.57	*	37.00	2.16E+00	3.54E-01
PM-149	0.322	285.90	*	3.10	8.79E+04	7.03E+04
TA-182	0.477	67.75	*	41.20	5.76E+00	6.37E-01
		1121.30	*	34.90	1.43E+01	1.45E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.888	583.14	*	30.22	6.80E-01	2.96E-01
		860.37		4.48		
		2614.66	*	35.85	5.00E-01	1.46E-01
PB-210	0.998	46.50	*	4.25	2.90E+01	4.84E+00
PB-211	0.999	404.84	*	2.90	9.83E+00	3.17E+00
		831.96	*	2.90	9.98E+00	3.55E+00
PB-212	0.996	238.63	*	44.60	7.87E-01	3.01E-01
		300.09	*	3.41	9.81E+00	3.14E+00
BI-214	0.998	609.31	*	46.30	2.46E+01	2.29E+00
		1120.29	*	15.10	2.72E+01	2.76E+00
		1764.49	*	15.80	2.92E+01	2.77E+00
		2204.22	*	4.98	2.73E+01	3.53E+00
PB-214	0.999	295.21	*	19.19	2.73E+01	2.27E+00
		351.92	*	37.19	2.95E+01	2.47E+00
RN-219	1.000	401.80	*	6.50	7.05E+00	1.41E+00
RA-223	1.000	323.87	*	3.88	6.68E+00	2.10E+00
RA-226	0.998	186.21	*	3.28	3.87E+01	7.09E+01
TH-227	0.484	50.10		8.40		
		236.00	*	11.50	6.91E+00	9.34E-01
		256.20	*	6.30	1.16E+01	2.67E+00
AC-228	0.563	338.32	*	11.40	1.32E+00	9.40E-01
		911.07	*	27.70	1.03E+00	5.09E-01

Analysis Report for 1507047-11

FEEBRISID-11 085-086

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AC-228	0.563	969.11		16.60		
TH-231	0.370	25.64		14.70		
		84.21	*	6.40	1.22E+01	2.24E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 9:25:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.06	5.32988E-02	39.35		
	4	76.35	1.24351E+00	4.22		
	7	94.54	3.00311E-01	11.19		
	9	143.91	4.76873E-01	9.40	Tol.	U-235
	10	154.12	2.13267E-01	15.40	Tol.	CS-136
	12	210.85	4.43597E-02	50.13	Sum	
m	15	242.15	9.78653E-01	2.45		
M	17	270.40	6.65659E-01	4.02	Sum	
m	18	274.52	5.06774E-02	38.88	Sum	
m	23	329.63	1.24915E-01	11.39	Tol.	LA-140
	26	387.04	5.90315E-02	33.32		
	29	427.01	3.08159E-02	48.90	Sum	
	30	445.60	4.55205E-02	30.32	Sum	
	31	462.14	2.44532E-02	50.76		
	32	487.00	3.49497E-02	37.14	Sum	
	33	510.68	4.49650E-02	32.83	Sum	
M	34	580.52	2.37603E-02	51.81	Sum	
m	37	613.24	4.33472E-02	50.30		
	38	665.62	6.25030E-02	19.52	Tol.	SB-126
	39	703.62	3.58063E-02	31.97	Sum	
	40	719.79	2.41808E-02	42.94	Tol.	SB-126
	41	743.65	2.89957E-02	33.62	Sum	
	42	768.27	2.60581E-01	5.72		
	43	786.07	5.65184E-02	18.16		
	44	806.22	6.48817E-02	15.94	Sum	
M	45	820.71	1.48196E-02	40.63		

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	46	826.32	1.95145E-02	40.58		
m	49	839.06	2.94746E-02	27.70	Sum	
	51	934.20	1.40064E-01	8.77	Sum	
	52	963.56	3.13150E-02	26.58	Tol.	EU-152
M	53	1049.47	7.63638E-03	33.24		
m	54	1052.33	1.49848E-02	44.78		
M	55	1088.41	6.05989E-03	54.43	Sum	
m	56	1091.69	1.63443E-02	43.26	Sum	
	58	1155.10	7.82481E-02	11.05	Sum	
	59	1207.70	1.46167E-02	48.15	Sum	
	60	1238.32	1.80473E-01	5.80	Tol.	CO-56
	61	1280.87	4.43486E-02	16.72		
	62	1377.63	1.32071E-01	6.97	Sum	
	63	1384.85	1.78455E-02	33.43		
M	64	1401.93	4.49276E-02	12.93		
m	65	1408.10	8.27118E-02	8.04	Tol.	EU-152
	67	1508.85	7.96594E-02	11.84		
	68	1538.59	1.64907E-02	30.14		
	69	1545.51	2.13718E-02	28.73	Sum	
	70	1582.95	1.37026E-02	47.73	Sum	
	71	1661.44	3.02295E-02	21.57		
	72	1729.75	9.23611E-02	8.22	Sum	
	74	1847.64	5.56960E-02	10.80	Sum	
	75	1895.48	7.33245E-03	44.02		
	76	1929.69	4.31682E-03	53.26		
	77	1937.10	9.60573E-03	33.85		
	78	1953.27	6.09825E-03	52.97	Sum	
	79	1961.03	4.15675E-03	48.42		
	80	1967.39	3.39815E-03	63.65		
	81	2118.56	2.88557E-02	11.98		
	82	2168.35	2.84722E-03	37.94		
	84	2232.22	1.50794E-03	56.03		
	85	2252.17	2.39899E-03	47.92		
	86	2259.43	3.19444E-03	33.96		
M	87	2287.75	2.20003E-03	26.78	Sum	
m	88	2292.75	7.93786E-03	24.62	Sum	
	89	2321.15	2.63889E-03	51.70		
	90	2356.40	1.38889E-03	70.71		
	91	2447.54	3.77778E-02	8.57		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-11

FEEBRISID-11 085-086

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	8.30E+00	1.65E+00
MN-54	0.98	834.83	*	99.97	7.15E-02	1.07E-01
CO-57	0.80	122.06	*	85.51	1.11E-01	1.01E-01
		136.48		10.60		
CD-109	0.99	88.03	*	3.72	2.25E+01	3.92E+00
SN-126	0.94	87.57	*	37.00	2.16E+00	3.54E-01
PM-149	0.32	285.90	*	3.10	8.79E+04	7.03E+04
TA-182	0.47	67.75	*	41.20	5.76E+00	6.37E-01
		1121.30	*	34.90	1.43E+01	1.45E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.88	583.14	*	30.22	6.80E-01	2.96E-01
		860.37		4.48		
		2614.66	*	35.85	5.00E-01	1.46E-01
PB-210	0.99	46.50	*	4.25	2.90E+01	4.84E+00
PB-211	0.99	404.84	*	2.90	9.83E+00	3.17E+00
		831.96	*	2.90	9.98E+00	3.55E+00
PB-212	0.99	238.63	*	44.60	7.87E-01	3.01E-01
		300.09	*	3.41	9.81E+00	3.14E+00
BI-214	0.99	609.31	*	46.30	2.46E+01	2.29E+00
		1120.29	*	15.10	2.72E+01	2.76E+00
		1764.49	*	15.80	2.92E+01	2.77E+00
		2204.22	*	4.98	2.73E+01	3.53E+00
PB-214	0.99	295.21	*	19.19	2.73E+01	2.27E+00
		351.92	*	37.19	2.95E+01	2.47E+00
RN-219	1.00	401.80	*	6.50	7.05E+00	1.41E+00
RA-223	1.00	323.87	*	3.88	6.68E+00	2.10E+00
RA-226	0.99	186.21	*	3.28	3.87E+01	7.09E+01
TH-227	0.48	50.10		8.40		
		236.00	*	11.50	6.91E+00	9.34E-01
		256.20	*	6.30	1.16E+01	2.67E+00
AC-228	0.56	338.32	*	11.40	1.32E+00	9.40E-01
		911.07	*	27.70	1.03E+00	5.09E-01
		969.11		16.60		
TH-231	0.37	25.64		14.70		
		84.21	*	6.40	1.22E+01	2.24E+00

Analysis Report for 1507047-11

FEEBRISID-11 085-086

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.998	8.30E+00	1.65E+00	
	MN-54	0.984	7.15E-02	1.07E-01	
	CO-57	0.805	1.11E-01	1.01E-01	
X	NB-95M	0.659			
?	CD-109	0.998	2.25E+01	3.92E+00	
?	SN-126	0.949	2.16E+00	3.54E-01	
	PM-149	0.322	8.79E+04	7.03E+04	
	TA-182	0.477	5.07E+00	5.95E-01	
	TL-208	0.888	5.35E-01	1.31E-01	
	PB-210	0.998	2.90E+01	4.84E+00	
	PB-211	0.999	9.90E+00	2.36E+00	
	PB-212	0.996	8.70E-01	3.00E-01	
	BI-214	0.998	2.44E+01	1.40E+00	
	PB-214	0.999	2.83E+01	1.67E+00	
	RN-219	1.000	7.05E+00	1.41E+00	
	RA-223	1.000	6.68E+00	2.10E+00	
	RA-226	0.998	3.87E+01	7.09E+01	
	TH-227	0.484	7.43E+00	8.82E-01	
	AC-228	0.563	1.10E+00	4.48E-01	
	TH-231	0.370	1.22E+01	2.24E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-11

FEEBRISID-11 085-086

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 9:25:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.06	5.32988E-02	39.35		
	4	76.35	1.24351E+00	4.22		
	7	94.54	3.00311E-01	11.19		
	9	143.91	4.76873E-01	9.40	Tol.	U-235
	10	154.12	2.13267E-01	15.40	Tol.	CS-136
	12	210.85	4.43597E-02	50.13	Sum	
m	15	242.15	9.78653E-01	2.45		
M	17	270.40	6.65659E-01	4.02	Sum	
m	18	274.52	5.06774E-02	38.88	Sum	
m	23	329.63	1.24915E-01	11.39	Tol.	LA-140
	26	387.04	5.90315E-02	33.32		
	29	427.01	3.08159E-02	48.90	Sum	
	30	445.60	4.55205E-02	30.32	Sum	
	31	462.14	2.44532E-02	50.76		
	32	487.00	3.49497E-02	37.14	Sum	
	33	510.68	4.49650E-02	32.83	Sum	
M	34	580.52	2.37603E-02	51.81	Sum	
m	37	613.24	4.33472E-02	50.30		
	38	665.62	6.25030E-02	19.52	Tol.	SB-126
	39	703.62	3.58063E-02	31.97	Sum	
	40	719.79	2.41808E-02	42.94	Tol.	SB-126
	41	743.65	2.89957E-02	33.62	Sum	
	42	768.27	2.60581E-01	5.72		
	43	786.07	5.65184E-02	18.16		
	44	806.22	6.48817E-02	15.94	Sum	
M	45	820.71	1.48196E-02	40.63		
m	46	826.32	1.95145E-02	40.58		
m	49	839.06	2.94746E-02	27.70	Sum	
	51	934.20	1.40064E-01	8.77	Sum	
	52	963.56	3.13150E-02	26.58	Tol.	EU-152
M	53	1049.47	7.63638E-03	33.24		
m	54	1052.33	1.49848E-02	44.78		
M	55	1088.41	6.05989E-03	54.43	Sum	
m	56	1091.69	1.63443E-02	43.26	Sum	
	58	1155.10	7.82481E-02	11.05	Sum	

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	59	1207.70	1.46167E-02	48.15	Sum	
	60	1238.32	1.80473E-01	5.80	Tol.	CO-56
	61	1280.87	4.43486E-02	16.72		
	62	1377.63	1.32071E-01	6.97	Sum	
	63	1384.85	1.78455E-02	33.43		
M	64	1401.93	4.49276E-02	12.93		
m	65	1408.10	8.27118E-02	8.04	Tol.	EU-152
	67	1508.85	7.96594E-02	11.84		
	68	1538.59	1.64907E-02	30.14		
	69	1545.51	2.13718E-02	28.73	Sum	
	70	1582.95	1.37026E-02	47.73	Sum	
	71	1661.44	3.02295E-02	21.57		
	72	1729.75	9.23611E-02	8.22	Sum	
	74	1847.64	5.56960E-02	10.80	Sum	
	75	1895.48	7.33245E-03	44.02		
	76	1929.69	4.31682E-03	53.26		
	77	1937.10	9.60573E-03	33.85		
	78	1953.27	6.09825E-03	52.97	Sum	
	79	1961.03	4.15675E-03	48.42		
	80	1967.39	3.39815E-03	63.65		
	81	2118.56	2.88557E-02	11.98		
	82	2168.35	2.84722E-03	37.94		
	84	2232.22	1.50794E-03	56.03		
	85	2252.17	2.39899E-03	47.92		
	86	2259.43	3.19444E-03	33.96		
M	87	2287.75	2.20003E-03	26.78	Sum	
m	88	2292.75	7.93786E-03	24.62	Sum	
	89	2321.15	2.63889E-03	51.70		
	90	2356.40	1.38889E-03	70.71		
	91	2447.54	3.77778E-02	8.57		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	6.99E-01	1.92E+00	1.92E+00
+	NA-22	1274.54		99.94	3.27E-02	1.51E-01	1.51E-01
+	NA-24	1368.53		99.99	-2.81E+13	1.06E+14	3.67E+14
		2754.09		99.86	2.21E+13		1.06E+14
+	AL-26	1808.65		99.76	-3.47E-02	8.53E-02	8.53E-02
+	K-40	1460.81	*	10.67	8.30E+00	2.03E+00	2.03E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.06E+00	2.47E-01	2.63E-01
		78.34		96.00	-1.78E-01		2.47E-01
+	SC-46	889.25		99.98	-5.68E-02	1.79E-01	1.79E-01
		1120.51		99.99	5.17E+00		5.89E-01
+	V-48	983.52		99.98	-7.68E-02	5.70E-01	5.70E-01
		1312.10		97.50	2.17E-02		5.76E-01
+	CR-51	320.08		9.83	7.29E-02	2.64E+00	2.64E+00
+	MN-54	834.83	*	99.97	7.15E-02	4.77E-01	4.77E-01
+	CO-56	846.75		99.96	-3.59E-02	1.78E-01	1.78E-01
		1037.75		14.03	-6.36E-02		1.28E+00
		1238.25		67.00	2.72E+00		5.84E-01
		1771.40		15.51	3.28E-02		8.57E-01
		2598.48		16.90	-5.11E-02		3.07E-01
+	CO-57	122.06	*	85.51	1.11E-01	1.65E-01	1.65E-01
		136.48		10.60	5.57E-01		1.37E+00
+	CO-58	810.76		99.40	2.95E-02	1.78E-01	1.78E-01
+	FE-59	1099.22		56.50	1.46E-01	3.94E-01	3.94E-01
		1291.56		43.20	-3.50E-01		4.96E-01
+	CO-60	1173.22		100.00	-1.76E-02	1.38E-01	1.38E-01
		1332.49		100.00	-9.41E-03		1.40E-01
+	ZN-65	1115.52		50.75	-6.08E-02	4.68E-01	4.68E-01
+	GA-67	93.31		35.70	1.37E+03	3.91E+02	3.91E+02
		208.95		2.24	8.86E+02		5.37E+03
		300.22		16.00	-1.71E+04		8.37E+02
+	SE-75	121.11		16.70	7.83E-02	2.44E-01	9.06E-01
		136.00		59.20	1.25E-01		2.71E-01
		264.65		59.80	-6.91E-02		2.44E-01
		279.53		25.20	-3.06E-01		6.04E-01
		400.65		11.40	2.13E+00		1.58E+00
+	RB-82	776.52		13.00	-9.45E-01	2.16E+00	2.16E+00
+	RB-83	520.41		46.00	4.18E-03	3.38E-01	3.38E-01
		529.64		30.30	-5.32E-02		5.40E-01
		552.65		16.40	3.22E-02		9.93E-01
+	KR-85	513.99		0.43	1.04E+01	3.17E+01	3.17E+01
+	SR-85	513.99		99.27	6.35E-02	1.94E-01	1.94E-01
+	Y-88	898.02		93.40	7.02E-02	1.42E-01	1.95E-01
		1836.01		99.38	4.71E-02		1.42E-01
+	NB-93M	16.57		9.43	-2.09E+02	1.58E+02	1.58E+02
+	NB-94	702.63		100.00	8.49E-02	1.39E-01	1.39E-01
		871.10		100.00	1.78E-02		1.47E-01

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	1.98E+00	4.47E-01	4.47E-01
+	NB-95M	235.69	*	25.00	1.49E+03	5.86E+02	5.86E+02
+	ZR-95	724.18		43.70	5.02E-02	3.42E-01	4.27E-01
		756.72		55.30	1.50E-01		3.42E-01
+	MO-99	181.06		6.20	1.94E+03	3.44E+03	7.02E+03
		739.58		12.80	1.04E+03		3.44E+03
		778.00		4.50	-1.21E+03		8.57E+03
+	RU-103	497.08		89.00	-1.86E-04	2.44E-01	2.44E-01
+	RU-106	621.84		9.80	1.38E-01	1.29E+00	1.29E+00
+	AG-108M	433.93		89.90	4.22E-02	1.49E-01	1.52E-01
		614.37		90.40	-7.76E+00		1.57E-01
		722.95		90.50	-1.52E-02		1.49E-01
+	CD-109	88.03	*	3.72	2.25E+01	4.64E+00	4.64E+00
+	AG-110M	657.75		93.14	-2.16E-02	1.45E-01	1.45E-01
		677.61		10.53	-9.29E-01		1.22E+00
		706.67		16.46	-2.65E-01		8.91E-01
		763.93		21.98	-7.53E+00		7.38E-01
		884.67		71.63	3.42E-02		2.12E-01
		1384.27		23.94	-4.37E-01		7.60E-01
+	CD-113M	263.70		0.02	-1.49E+02	5.31E+02	5.31E+02
+	SN-113	255.12		1.93	2.66E+01	2.17E-01	9.73E+00
		391.69		64.90	-1.22E-02		2.17E-01
+	TE123M	159.00		84.10	2.25E-02	1.96E-01	1.96E-01
+	SB-124	602.71		97.87	-3.29E-02	1.93E-01	1.93E-01
		645.85		7.26	4.24E-01		2.39E+00
		722.78		11.10	-1.79E-01		1.76E+00
		1691.02		49.00	2.19E-01		3.43E-01
+	I-125	35.49		6.49	1.34E+00	7.48E+00	7.48E+00
+	SB-125	176.33		6.89	-1.64E+00	5.36E-01	1.96E+00
		427.89		29.33	6.49E-01		5.36E-01
		463.38		10.35	7.10E-02		1.32E+00
		600.56		17.80	-2.22E-01		7.36E-01
		635.90		11.32	4.84E-01		1.09E+00
+	SB-126	414.70		83.30	4.03E-01	7.36E-01	1.04E+00
		666.33		99.60	1.81E+00		9.66E-01
		695.00		99.60	1.84E-01		7.36E-01
		720.50		53.80	1.17E+00		1.53E+00
+	SN-126	87.57	*	37.00	2.16E+00	4.44E-01	4.44E-01
+	SB-127	473.00		25.00	5.94E+01	1.15E+02	1.66E+02
		685.20		35.70	2.35E+01		1.15E+02
		783.80		14.70	5.64E+02		3.45E+02
+	I-129	29.78		57.00	-1.34E-01	1.16E+00	1.16E+00
		33.60		13.20	1.87E+00		3.16E+00
		39.58		7.52	-3.83E+00		3.33E+00
+	I-131	284.30		6.05	3.62E+01	2.06E+00	3.52E+01
		364.48		81.20	-9.08E-01		2.06E+00
		636.97		7.26	9.00E+00		2.61E+01
		722.89		1.80	-1.21E+01		1.19E+02

Analysis Report for 1507047-11

FEEBRISID-11 085-086

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	2.27E+03	1.33E+02	1.40E+03
			228.16	88.00	-8.92E+01		1.33E+02
+		BA-133	81.00	33.00	-5.17E-01	2.36E-01	5.75E-01
			302.84	17.80	6.11E-01		7.96E-01
			356.01	60.00	-3.34E-02		2.36E-01
+		I-133	529.87	86.30	-1.94E+09	1.98E+10	1.98E+10
+		XE-133	81.00	38.00	-3.08E+01	3.43E+01	3.43E+01
+		CS-134	563.23	8.38	1.02E+00	1.57E-01	1.63E+00
			569.32	15.43	-2.58E-01		8.60E-01
			604.70	97.60	-1.73E-03		2.03E-01
			795.84	85.40	-1.88E-02		1.57E-01
			801.93	8.73	4.29E-01		1.65E+00
+		CS-135	268.24	16.00	4.36E+00	1.16E+00	1.16E+00
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	2.95E+01	7.14E-01	1.10E+01
			163.89	4.61	3.02E+00		1.58E+01
			176.55	13.56	-4.42E+00		5.27E+00
			273.65	12.66	-7.70E+00		6.67E+00
			340.57	48.50	1.15E+00		1.49E+00
			818.50	99.70	-5.75E-02		7.14E-01
			1048.07	79.60	-6.56E-03		9.25E-01
			1235.34	19.70	5.35E-01		6.88E+00
+		CS-137	661.65	85.12	-6.64E-03	1.68E-01	1.68E-01
+		LA-138	788.74	34.00	4.85E-02	2.21E-01	4.62E-01
			1435.80	66.00	9.42E-02		2.21E-01
+		CE-139	165.85	80.35	5.34E-02	1.95E-01	1.95E-01
+		BA-140	162.64	6.70	1.37E+01	2.86E+00	1.15E+01
			304.84	4.50	3.21E+00		1.64E+01
			423.70	3.20	4.55E+00		2.68E+01
			437.55	2.00	-3.79E+00		3.65E+01
			537.32	25.00	-1.24E+00		2.86E+00
+		LA-140	328.77	20.50	7.18E+00	9.19E-01	3.93E+00
			487.03	45.50	1.93E+00		1.69E+00
			815.85	23.50	4.54E-01		3.05E+00
			1596.49	95.49	4.55E-01		9.19E-01
+		CE-141	145.44	48.40	2.74E+00	6.52E-01	6.52E-01
+		CE-143	57.36	11.80	-1.30E+07	7.56E+06	1.54E+07
			293.26	42.00	1.13E+08		7.56E+06
			664.55	5.20	6.28E+07		3.21E+07
+		CE-144	133.54	10.80	-1.14E+00	1.29E+00	1.29E+00
+		PM-144	476.78	42.00	-3.29E-01	1.29E-01	3.23E-01
			618.01	98.60	6.83E-03		1.29E-01
			696.49	99.49	6.23E-02		1.30E-01
+		PM-145	36.85	21.70	-2.02E-01	7.31E-01	1.39E+00
			37.36	39.70	-2.75E-01		7.31E-01
			42.30	15.10	2.81E-01		1.50E+00
			72.40	2.31	9.80E-01		8.55E+00

Analysis Report for 1507047-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90		39.94	1.47E-01	3.35E-01	3.35E-01
		735.90		14.01	1.24E-01		9.30E-01
		747.13		13.10	-4.69E-03		9.59E-01
+	ND-147	91.11		28.90	-2.10E+01	4.02E+00	4.02E+00
		531.02		13.10	1.13E+00		7.45E+00
+	PM-149	285.90	*	3.10	8.79E+04	1.14E+05	1.14E+05
+	EU-152	121.78		20.50	4.03E-01	6.18E-01	6.18E-01
		244.69		5.40	7.45E+00		3.23E+00
		344.27		19.13	-1.72E-01		6.43E-01
		778.89		9.20	-1.99E-03		1.30E+00
		964.01		10.40	9.69E-01		1.55E+00
		1085.78		7.22	5.67E-01		1.95E+00
		1112.02		9.60	-2.13E-01		1.54E+00
		1407.95		14.94	3.99E+00		1.55E+00
+	GD-153	97.43		31.30	3.84E-01	4.69E-01	4.69E-01
		103.18		22.20	-1.97E-01		5.88E-01
+	EU-154	123.07		40.50	1.86E-01	3.15E-01	3.15E-01
		723.30		19.70	-7.04E-02		6.90E-01
		873.19		11.50	3.56E-01		1.31E+00
		996.32		10.30	-3.39E-01		1.39E+00
		1004.76		17.90	-2.61E-01		8.06E-01
		1274.45		35.50	9.05E-02		4.18E-01
+	EU-155	86.50		30.90	-1.58E+00	5.77E-01	6.15E-01
		105.30		20.70	-5.27E-01		5.77E-01
+	EU-156	811.77		10.40	6.25E-01	5.29E+00	5.29E+00
		1153.47		7.20	2.37E+01		1.19E+01
		1230.71		8.90	3.10E+00		6.97E+00
+	HO-166M	184.41		72.60	1.49E+00	2.32E-01	2.50E-01
		280.45		29.60	-1.53E-01		4.26E-01
		410.94		11.10	-2.12E-01		1.29E+00
		711.69		54.10	3.17E-02		2.32E-01
+	TM-171	66.72		0.14	2.14E+03	1.86E+02	1.86E+02
+	HF-172	81.75		4.52	-3.87E+00	1.15E+00	4.65E+00
		125.81		11.30	7.22E-02		1.15E+00
+	LU-172	181.53		20.60	4.66E+00	6.28E+00	1.82E+01
		810.06		16.63	-2.83E+00		2.42E+01
		912.12		15.25	2.89E+01		3.11E+01
		1093.66		62.50	3.27E+00		6.28E+00
+	LU-173	100.72		5.24	-1.58E-01	9.68E-01	2.48E+00
		272.11		21.20	5.82E+00		9.68E-01
+	HF-175	343.40		84.00	-5.35E-02	2.00E-01	2.00E-01
+	LU-176	88.34		13.30	8.68E+00	1.29E-01	1.32E+00
		201.83		86.00	-8.28E-02		1.54E-01
		306.78		94.00	-8.04E-02		1.29E-01
+	TA-182	67.75	*	41.20	5.76E+00	6.38E-01	1.93E+00
		1121.30	*	34.90	1.43E+01		8.69E-01
		1189.05		16.23	-2.54E-01		1.03E+00
		1221.41		26.98	2.89E-01		6.38E-01
		1231.02		11.44	6.79E-01		1.53E+00

Analysis Report for 1507047-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-4.51E-01	3.56E-01	5.37E-01
		468.07		48.10	2.38E-02		3.56E-01
+	HG-203	279.19		77.30	-8.14E-02	2.61E-01	2.61E-01
+	BI-207	569.67		97.72	-1.37E-02	1.32E-01	1.32E-01
		1063.62		74.90	-4.07E-02		1.80E-01
+	TL-208	583.14	*	30.22	6.80E-01	8.72E-02	6.87E-01
		860.37		4.48	7.51E-01		3.17E+00
		2614.66	*	35.85	5.00E-01		8.72E-02
+	BI-210M	262.00		45.00	-5.32E-02	2.77E-01	2.77E-01
		300.00		23.00	-1.31E+01		6.41E-01
+	PB-210	46.50	*	4.25	2.90E+01	5.74E+00	5.74E+00
+	PB-211	404.84	*	2.90	9.83E+00	8.03E+00	8.03E+00
		831.96	*	2.90	9.98E+00		1.53E+01
+	BI-212	727.17		11.80	2.07E-01	1.10E+00	1.10E+00
		1620.62		2.75	5.47E-02		4.61E+00
+	PB-212	238.63	*	44.60	7.87E-01	7.21E-01	7.21E-01
		300.09	*	3.41	9.81E+00		8.64E+00
+	BI-214	609.31	*	46.30	2.46E+01	5.47E-01	5.47E-01
		1120.29	*	15.10	2.72E+01		1.65E+00
		1764.49	*	15.80	2.92E+01		1.09E+00
		2204.22	*	4.98	2.73E+01		1.29E+00
+	PB-214	295.21	*	19.19	2.73E+01	6.16E-01	1.50E+00
		351.92	*	37.19	2.95E+01		6.16E-01
+	RN-219	401.80	*	6.50	7.05E+00	3.56E+00	3.56E+00
+	RA-223	323.87	*	3.88	6.68E+00	6.01E+00	6.01E+00
+	RA-224	240.98		3.95	4.27E+01	5.61E+00	5.61E+00
+	RA-225	40.00		31.00	-4.06E+00	3.53E+00	3.53E+00
+	RA-226	186.21	*	3.28	3.87E+01	5.73E+00	5.73E+00
+	TH-227	50.10		8.40	3.83E+00	2.37E+00	2.37E+00
		236.00	*	11.50	6.91E+00		2.71E+00
		256.20	*	6.30	1.16E+01		3.96E+00
+	AC-228	338.32	*	11.40	1.32E+00	7.98E-01	1.52E+00
		911.07	*	27.70	1.03E+00		7.98E-01
		969.11		16.60	1.34E-01		8.92E-01
+	TH-230	48.44		16.90	1.93E+00	1.41E+00	1.41E+00
		62.85		4.60	2.29E-01		4.01E+00
		67.67		0.37	7.82E+02		6.71E+01
+	PA-231	283.67		1.60	8.70E+00	6.12E+00	8.40E+00
		302.67		2.30	4.70E+00		6.12E+00
+	TH-231	25.64		14.70	4.90E-01	3.06E+00	9.50E+00
		84.21	*	6.40	1.22E+01		3.06E+00
+	PA-233	311.98		38.60	3.23E-01	7.21E-01	7.21E-01
+	PA-234	131.20		20.40	-3.72E-01	6.23E-01	6.23E-01
		733.99		8.80	-9.82E-01		1.43E+00
		946.00		12.00	-2.38E-01		1.15E+00
+	PA-234M	1001.03		0.92	1.53E+00	1.59E+01	1.59E+01
+	TH-234	63.29		3.80	2.31E-01	4.93E+00	4.93E+00

Analysis Report for 1507047-11

FEEBRISID-11 085-086

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	8.14E+00	1.55E+00	1.55E+00
		163.35	4.70	5.46E-01		2.85E+00
		205.31	4.70	3.43E+00		2.83E+00
+	NP-237	86.50	12.60	-3.83E+00	1.49E+00	1.49E+00
+	NP-239	106.10	22.70	-5.92E+03	6.49E+03	6.49E+03
		228.18	10.70	-1.00E+04		1.49E+04
		277.60	14.10	-2.73E+03		1.11E+04
+	AM-241	59.54	35.90	-3.62E-01	4.94E-01	4.94E-01
+	AM-243	74.67	66.00	-2.00E+00	3.50E-01	3.50E-01
+	CM-243	209.75	3.29	1.18E+00	8.96E-01	4.03E+00
		228.14	10.60	-8.13E-01		1.21E+00
		277.60	14.00	-2.21E-01		8.96E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.92E+00	1.92E+00	6.99E-01	9.42E-01
	NA-22	1274.54		99.94	1.51E-01	1.51E-01	3.27E-02	7.23E-02
	NA-24	1368.53		99.99	3.67E+14	1.06E+14	-2.81E+13	1.75E+14
		2754.09		99.86	1.06E+14		2.21E+13	4.12E+13
	AL-26	1808.65		99.76	8.53E-02	8.53E-02	-3.47E-02	3.88E-02
+	K-40	1460.81	*	10.67	2.03E+00	2.03E+00	8.30E+00	9.86E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	2.63E-01	2.47E-01	3.06E+00	1.31E-01
		78.34		96.00	2.47E-01		-1.78E-01	1.23E-01
	SC-46	889.25		99.98	1.79E-01	1.79E-01	-5.68E-02	8.65E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	5.89E-01	1.79E-01	5.17E+00	2.91E-01
	V-48	983.52		99.98	5.70E-01	5.70E-01	-7.68E-02	2.75E-01
		1312.10		97.50	5.76E-01		2.17E-02	2.75E-01
	CR-51	320.08		9.83	2.64E+00	2.64E+00	7.29E-02	1.29E+00
+	MN-54	834.83	*	99.97	4.77E-01	4.77E-01	7.15E-02	2.36E-01
	CO-56	846.75		99.96	1.78E-01	1.78E-01	-3.59E-02	8.59E-02
		1037.75		14.03	1.28E+00		-6.36E-02	6.15E-01
		1238.25		67.00	5.84E-01		2.72E+00	2.86E-01
		1771.40		15.51	8.57E-01		3.28E-02	3.96E-01
		2598.48		16.90	3.07E-01		-5.11E-02	1.19E-01
+	CO-57	122.06	*	85.51	1.65E-01	1.65E-01	1.11E-01	8.19E-02
		136.48		10.60	1.37E+00		5.57E-01	6.76E-01
	CO-58	810.76		99.40	1.78E-01	1.78E-01	2.95E-02	8.62E-02
	FE-59	1099.22		56.50	3.94E-01	3.94E-01	1.46E-01	1.89E-01
		1291.56		43.20	4.96E-01		-3.50E-01	2.36E-01
	CO-60	1173.22		100.00	1.38E-01	1.38E-01	-1.76E-02	6.59E-02
		1332.49		100.00	1.40E-01		-9.41E-03	6.70E-02
	ZN-65	1115.52		50.75	4.68E-01	4.68E-01	-6.08E-02	2.28E-01
	GA-67	93.31		35.70	3.91E+02	3.91E+02	1.37E+03	1.94E+02
		208.95		2.24	5.37E+03		8.86E+02	2.65E+03
		300.22		16.00	8.37E+02		-1.71E+04	4.13E+02
	SE-75	121.11		16.70	9.06E-01	2.44E-01	7.83E-02	4.48E-01
		136.00		59.20	2.71E-01		1.25E-01	1.34E-01
		264.65		59.80	2.44E-01		-6.91E-02	1.20E-01
		279.53		25.20	6.04E-01		-3.06E-01	2.97E-01
		400.65		11.40	1.58E+00		2.13E+00	7.76E-01
	RB-82	776.52		13.00	2.16E+00	2.16E+00	-9.45E-01	1.04E+00
	RB-83	520.41		46.00	3.38E-01	3.38E-01	4.18E-03	1.65E-01
		529.64		30.30	5.40E-01		-5.32E-02	2.64E-01
		552.65		16.40	9.93E-01		3.22E-02	4.84E-01
	KR-85	513.99		0.43	3.17E+01	3.17E+01	1.04E+01	1.55E+01
	SR-85	513.99		99.27	1.94E-01	1.94E-01	6.35E-02	9.49E-02
	Y-88	898.02		93.40	1.95E-01	1.42E-01	7.02E-02	9.43E-02
		1836.01		99.38	1.42E-01		4.71E-02	6.63E-02
	NB-93M	16.57		9.43	1.58E+02	1.58E+02	-2.09E+02	7.68E+01
	NB-94	702.63		100.00	1.39E-01	1.39E-01	8.49E-02	6.75E-02
		871.10		100.00	1.47E-01		1.78E-02	7.13E-02
	NB-95	765.79		99.81	4.47E-01	4.47E-01	1.98E+00	2.20E-01
	NB-95M	235.69	*	25.00	5.86E+02	5.86E+02	1.49E+03	2.91E+02
	ZR-95	724.18		43.70	4.27E-01	3.42E-01	5.02E-02	2.07E-01
		756.72		55.30	3.42E-01		1.50E-01	1.66E-01
	MO-99	181.06		6.20	7.02E+03	3.44E+03	1.94E+03	3.47E+03
		739.58		12.80	3.44E+03		1.04E+03	1.67E+03
		778.00		4.50	8.57E+03		-1.21E+03	4.14E+03
	RU-103	497.08		89.00	2.44E-01	2.44E-01	-1.86E-04	1.19E-01
	RU-106	621.84		9.80	1.29E+00	1.29E+00	1.38E-01	6.28E-01
	AG-108M	433.93		89.90	1.52E-01	1.49E-01	4.22E-02	7.47E-02
		614.37		90.40	1.57E-01		-7.76E+00	7.68E-02
		722.95		90.50	1.49E-01		-1.52E-02	7.24E-02
+	CD-109	88.03	*	3.72	4.64E+00	4.64E+00	2.25E+01	2.30E+00
	AG-110M	657.75		93.14	1.45E-01	1.45E-01	-2.16E-02	7.03E-02
		677.61		10.53	1.22E+00		-9.29E-01	5.90E-01
		706.67		16.46	8.91E-01		-2.65E-01	4.33E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	7.38E-01	1.45E-01	-7.53E+00	3.59E-01
		884.67		71.63	2.12E-01		3.42E-02	1.03E-01
		1384.27		23.94	7.60E-01		-4.37E-01	3.65E-01
	CD-113M	263.70		0.02	5.31E+02	5.31E+02	-1.49E+02	2.61E+02
	SN-113	255.12		1.93	9.73E+00	2.17E-01	2.66E+01	4.81E+00
		391.69		64.90	2.17E-01		-1.22E-02	1.06E-01
	TE123M	159.00		84.10	1.96E-01	1.96E-01	2.25E-02	9.72E-02
	SB-124	602.71		97.87	1.93E-01	1.93E-01	-3.29E-02	9.38E-02
		645.85		7.26	2.39E+00		4.24E-01	1.16E+00
		722.78		11.10	1.76E+00		-1.79E-01	8.54E-01
		1691.02		49.00	3.43E-01		2.19E-01	1.61E-01
	I-125	35.49		6.49	7.48E+00	7.48E+00	1.34E+00	3.70E+00
	SB-125	176.33		6.89	1.96E+00	5.36E-01	-1.64E+00	9.69E-01
		427.89		29.33	5.36E-01		6.49E-01	2.63E-01
		463.38		10.35	1.32E+00		7.10E-02	6.47E-01
		600.56		17.80	7.36E-01		-2.22E-01	3.58E-01
		635.90		11.32	1.09E+00		4.84E-01	5.29E-01
	SB-126	414.70		83.30	1.04E+00	7.36E-01	4.03E-01	5.09E-01
		666.33		99.60	9.66E-01		1.81E+00	4.72E-01
		695.00		99.60	7.36E-01		1.84E-01	3.57E-01
		720.50		53.80	1.53E+00		1.17E+00	7.44E-01
+	SN-126	87.57	*	37.00	4.44E-01	4.44E-01	2.16E+00	2.21E-01
	SB-127	473.00		25.00	1.66E+02	1.15E+02	5.94E+01	8.11E+01
		685.20		35.70	1.15E+02		2.35E+01	5.60E+01
		783.80		14.70	3.45E+02		5.64E+02	1.68E+02
	I-129	29.78		57.00	1.16E+00	1.16E+00	-1.34E-01	5.73E-01
		33.60		13.20	3.16E+00		1.87E+00	1.56E+00
		39.58		7.52	3.33E+00		-3.83E+00	1.65E+00
	I-131	284.30		6.05	3.52E+01	2.06E+00	3.62E+01	1.73E+01
		364.48		81.20	2.06E+00		-9.08E-01	1.01E+00
		636.97		7.26	2.61E+01		9.00E+00	1.27E+01
		722.89		1.80	1.19E+02		-1.21E+01	5.77E+01
	TE-132	49.72		13.10	1.40E+03	1.33E+02	2.27E+03	6.96E+02
		228.16		88.00	1.33E+02		-8.92E+01	6.56E+01
	BA-133	81.00		33.00	5.75E-01	2.36E-01	-5.17E-01	2.86E-01
		302.84		17.80	7.96E-01		6.11E-01	3.92E-01
		356.01		60.00	2.36E-01		-3.34E-02	1.16E-01
	I-133	529.87		86.30	1.98E+10	1.98E+10	-1.94E+09	9.64E+09
	XE-133	81.00		38.00	3.43E+01	3.43E+01	-3.08E+01	1.71E+01
	CS-134	563.23		8.38	1.63E+00	1.57E-01	1.02E+00	7.95E-01
		569.32		15.43	8.60E-01		-2.58E-01	4.19E-01
		604.70		97.60	2.03E-01		-1.73E-03	9.97E-02
		795.84		85.40	1.57E-01		-1.88E-02	7.60E-02
		801.93		8.73	1.65E+00		4.29E-01	8.00E-01
	CS-135	268.24		16.00	1.16E+00	1.16E+00	4.36E+00	5.74E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.10E+01	7.14E-01	2.95E+01	5.44E+00
		163.89		4.61	1.58E+01		3.02E+00	7.79E+00
		176.55		13.56	5.27E+00		-4.42E+00	2.61E+00
		273.65		12.66	6.67E+00		-7.70E+00	3.29E+00
		340.57		48.50	1.49E+00		1.15E+00	7.32E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	818.50		99.70	7.14E-01	7.14E-01	-5.75E-02	3.46E-01
		1048.07		79.60	9.25E-01		-6.56E-03	4.45E-01
		1235.34		19.70	6.88E+00		5.35E-01	3.36E+00
	CS-137	661.65		85.12	1.68E-01	1.68E-01	-6.64E-03	8.17E-02
	LA-138	788.74		34.00	4.62E-01	2.21E-01	4.85E-02	2.25E-01
		1435.80		66.00	2.21E-01		9.42E-02	1.06E-01
	CE-139	165.85		80.35	1.95E-01	1.95E-01	5.34E-02	9.65E-02
	BA-140	162.64		6.70	1.15E+01	2.86E+00	1.37E+01	5.70E+00
		304.84		4.50	1.64E+01		3.21E+00	8.08E+00
		423.70		3.20	2.68E+01		4.55E+00	1.32E+01
		437.55		2.00	3.65E+01		-3.79E+00	1.79E+01
		537.32		25.00	2.86E+00		-1.24E+00	1.39E+00
	LA-140	328.77		20.50	3.93E+00	9.19E-01	7.18E+00	1.93E+00
		487.03		45.50	1.69E+00		1.93E+00	8.27E-01
		815.85		23.50	3.05E+00		4.54E-01	1.47E+00
		1596.49		95.49	9.19E-01		4.55E-01	4.38E-01
	CE-141	145.44		48.40	6.52E-01	6.52E-01	2.74E+00	3.23E-01
	CE-143	57.36		11.80	1.54E+07	7.56E+06	-1.30E+07	7.62E+06
		293.26		42.00	7.56E+06		1.13E+08	3.76E+06
		664.55		5.20	3.21E+07		6.28E+07	1.57E+07
	CE-144	133.54		10.80	1.29E+00	1.29E+00	-1.14E+00	6.40E-01
	PM-144	476.78		42.00	3.23E-01	1.29E-01	-3.29E-01	1.58E-01
		618.01		98.60	1.29E-01		6.83E-03	6.29E-02
		696.49		99.49	1.30E-01		6.23E-02	6.31E-02
	PM-145	36.85		21.70	1.39E+00	7.31E-01	-2.02E-01	6.86E-01
		37.36		39.70	7.31E-01		-2.75E-01	3.61E-01
		42.30		15.10	1.50E+00		2.81E-01	7.44E-01
		72.40		2.31	8.55E+00		9.80E-01	4.25E+00
	PM-146	453.90		39.94	3.35E-01	3.35E-01	1.47E-01	1.64E-01
		735.90		14.01	9.30E-01		1.24E-01	4.51E-01
		747.13		13.10	9.59E-01		-4.69E-03	4.64E-01
	ND-147	91.11		28.90	4.02E+00	4.02E+00	-2.10E+01	1.99E+00
		531.02		13.10	7.45E+00		1.13E+00	3.64E+00
+	PM-149	285.90	*	3.10	1.14E+05	1.14E+05	8.79E+04	5.65E+04
	EU-152	121.78		20.50	6.18E-01	6.18E-01	4.03E-01	3.06E-01
		244.69		5.40	3.23E+00		7.45E+00	1.60E+00
		344.27		19.13	6.43E-01		-1.72E-01	3.16E-01
		778.89		9.20	1.30E+00		-1.99E-03	6.28E-01
		964.01		10.40	1.55E+00		9.69E-01	7.51E-01
		1085.78		7.22	1.95E+00		5.67E-01	9.36E-01
		1112.02		9.60	1.54E+00		-2.13E-01	7.39E-01
		1407.95		14.94	1.55E+00		3.99E+00	7.53E-01
	GD-153	97.43		31.30	4.69E-01	4.69E-01	3.84E-01	2.33E-01
		103.18		22.20	5.88E-01		-1.97E-01	2.91E-01
	EU-154	123.07		40.50	3.15E-01	3.15E-01	1.86E-01	1.56E-01
		723.30		19.70	6.90E-01		-7.04E-02	3.35E-01
		873.19		11.50	1.31E+00		3.56E-01	6.33E-01
		996.32		10.30	1.39E+00		-3.39E-01	6.73E-01
		1004.76		17.90	8.06E-01		-2.61E-01	3.89E-01
		1274.45		35.50	4.18E-01		9.05E-02	2.00E-01
	EU-155	86.50		30.90	6.15E-01	5.77E-01	-1.58E+00	3.06E-01
		105.30		20.70	5.77E-01		-5.27E-01	2.85E-01
	EU-156	811.77		10.40	5.29E+00	5.29E+00	6.25E-01	2.55E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	1.19E+01	5.29E+00	2.37E+01	5.77E+00
		1230.71		8.90	6.97E+00		3.10E+00	3.34E+00
	HO-166M	184.41		72.60	2.50E-01	2.32E-01	1.49E+00	1.24E-01
		280.45		29.60	4.26E-01		-1.53E-01	2.10E-01
		410.94		11.10	1.29E+00		-2.12E-01	6.34E-01
		711.69		54.10	2.32E-01		3.17E-02	1.12E-01
	TM-171	66.72		0.14	1.86E+02	1.86E+02	2.14E+03	9.23E+01
	HF-172	81.75		4.52	4.65E+00	1.15E+00	-3.87E+00	2.31E+00
		125.81		11.30	1.15E+00		7.22E-02	5.70E-01
	LU-172	181.53		20.60	1.82E+01	6.28E+00	4.66E+00	9.00E+00
		810.06		16.63	2.42E+01		-2.83E+00	1.17E+01
		912.12		15.25	3.11E+01		2.89E+01	1.51E+01
		1093.66		62.50	6.28E+00		3.27E+00	3.02E+00
	LU-173	100.72		5.24	2.48E+00	9.68E-01	-1.58E-01	1.23E+00
		272.11		21.20	9.68E-01		5.82E+00	4.79E-01
	HF-175	343.40		84.00	2.00E-01	2.00E-01	-5.35E-02	9.83E-02
	LU-176	88.34		13.30	1.32E+00	1.29E-01	8.68E+00	6.57E-01
		201.83		86.00	1.54E-01		-8.28E-02	7.62E-02
		306.78		94.00	1.29E-01		-8.04E-02	6.34E-02
+	TA-182	67.75	*	41.20	1.93E+00	6.38E-01	5.76E+00	9.63E-01
		1121.30	*	34.90	8.69E-01		1.43E+01	4.25E-01
		1189.05		16.23	1.03E+00		-2.54E-01	4.91E-01
		1221.41		26.98	6.38E-01		2.89E-01	3.06E-01
		1231.02		11.44	1.53E+00		6.79E-01	7.32E-01
	IR-192	308.46		29.68	5.37E-01	3.56E-01	-4.51E-01	2.64E-01
		468.07		48.10	3.56E-01		2.38E-02	1.74E-01
	HG-203	279.19		77.30	2.61E-01	2.61E-01	-8.14E-02	1.28E-01
	BI-207	569.67		97.72	1.32E-01	1.32E-01	-1.37E-02	6.41E-02
		1063.62		74.90	1.80E-01		-4.07E-02	8.65E-02
+	TL-208	583.14	*	30.22	6.87E-01	8.72E-02	6.80E-01	3.38E-01
		860.37		4.48	3.17E+00		7.51E-01	1.53E+00
		2614.66	*	35.85	8.72E-02		5.00E-01	3.13E-02
	BI-210M	262.00		45.00	2.77E-01	2.77E-01	-5.32E-02	1.36E-01
		300.00		23.00	6.41E-01		-1.31E+01	3.16E-01
+	PB-210	46.50	*	4.25	5.74E+00	5.74E+00	2.90E+01	2.85E+00
+	PB-211	404.84	*	2.90	8.03E+00	8.03E+00	9.83E+00	3.97E+00
		831.96	*	2.90	1.53E+01		9.98E+00	7.55E+00
	BI-212	727.17		11.80	1.10E+00	1.10E+00	2.07E-01	5.36E-01
		1620.62		2.75	4.61E+00		5.47E-02	2.18E+00
+	PB-212	238.63	*	44.60	7.21E-01	7.21E-01	7.87E-01	3.58E-01
		300.09	*	3.41	8.64E+00		9.81E+00	4.29E+00
+	BI-214	609.31	*	46.30	5.47E-01	5.47E-01	2.46E+01	2.70E-01
		1120.29	*	15.10	1.65E+00		2.72E+01	8.09E-01
		1764.49	*	15.80	1.09E+00		2.92E+01	5.21E-01
		2204.22	*	4.98	1.29E+00		2.73E+01	5.61E-01
+	PB-214	295.21	*	19.19	1.50E+00	6.16E-01	2.73E+01	7.47E-01
		351.92	*	37.19	6.16E-01		2.95E+01	3.05E-01
+	RN-219	401.80	*	6.50	3.56E+00	3.56E+00	7.05E+00	1.76E+00
+	RA-223	323.87	*	3.88	6.01E+00	6.01E+00	6.68E+00	2.98E+00
	RA-224	240.98		3.95	5.61E+00	5.61E+00	4.27E+01	2.78E+00
	RA-225	40.00		31.00	3.53E+00	3.53E+00	-4.06E+00	1.74E+00
+	RA-226	186.21	*	3.28	5.73E+00	5.73E+00	3.87E+01	2.84E+00
+	TH-227	50.10		8.40	2.37E+00	2.37E+00	3.83E+00	1.17E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00	*	11.50	2.71E+00	2.37E+00	6.91E+00	1.35E+00
		256.20	*	6.30	3.96E+00		1.16E+01	1.97E+00
+	AC-228	338.32	*	11.40	1.52E+00	7.98E-01	1.32E+00	7.52E-01
		911.07	*	27.70	7.98E-01		1.03E+00	3.91E-01
		969.11		16.60	8.92E-01		1.34E-01	4.31E-01
	TH-230	48.44		16.90	1.41E+00	1.41E+00	1.93E+00	7.01E-01
		62.85		4.60	4.01E+00		2.29E-01	1.99E+00
		67.67		0.37	6.71E+01		7.82E+02	3.34E+01
	PA-231	283.67		1.60	8.40E+00	6.12E+00	8.70E+00	4.14E+00
		302.67		2.30	6.12E+00		4.70E+00	3.02E+00
+	TH-231	25.64		14.70	9.50E+00	3.06E+00	4.90E-01	4.70E+00
		84.21	*	6.40	3.06E+00		1.22E+01	1.52E+00
	PA-233	311.98		38.60	7.21E-01	7.21E-01	3.23E-01	3.55E-01
	PA-234	131.20		20.40	6.23E-01	6.23E-01	-3.72E-01	3.08E-01
		733.99		8.80	1.43E+00		-9.82E-01	6.92E-01
		946.00		12.00	1.15E+00		-2.38E-01	5.55E-01
	PA-234M	1001.03		0.92	1.59E+01	1.59E+01	1.53E+00	7.68E+00
	TH-234	63.29		3.80	4.93E+00	4.93E+00	2.31E-01	2.45E+00
	U-235	143.76		10.50	1.55E+00	1.55E+00	8.14E+00	7.68E-01
		163.35		4.70	2.85E+00		5.46E-01	1.41E+00
		205.31		4.70	2.83E+00		3.43E+00	1.40E+00
	NP-237	86.50		12.60	1.49E+00	1.49E+00	-3.83E+00	7.40E-01
	NP-239	106.10		22.70	6.49E+03	6.49E+03	-5.92E+03	3.21E+03
		228.18		10.70	1.49E+04		-1.00E+04	7.37E+03
		277.60		14.10	1.11E+04		-2.73E+03	5.45E+03
	AM-241	59.54		35.90	4.94E-01	4.94E-01	-3.62E-01	2.45E-01
	AM-243	74.67		66.00	3.50E-01	3.50E-01	-2.00E+00	1.74E-01
	CM-243	209.75		3.29	4.03E+00	8.96E-01	1.18E+00	1.99E+00
		228.14		10.60	1.21E+00		-8.13E-01	5.98E-01
		277.60		14.00	8.96E-01		-2.21E-01	4.41E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507047-11

FEEBRISID-11 085-086

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-11 085-086

Elapsed Live time: 3600
Elapsed Real Time: 3609

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	415	544	508	650	685	679
25:	458	435	537	602	445	463	502	580
33:	597	473	492	499	498	507	485	514
41:	536	529	618	562	654	908	1992	997
49:	630	841	1063	747	760	1056	828	853
57:	871	958	977	1060	1123	1100	1252	1427
65:	1328	1392	1736	5196	3058	1216	1275	1271
73:	1259	1530	3165	2695	3370	4640	1546	1659
81:	1829	2076	1310	2957	2271	1174	1591	2087
89:	1401	1294	1137	857	1040	1198	1490	1155
97:	713	933	791	751	753	718	694	626
105:	643	699	656	668	717	641	703	650
113:	692	732	634	669	649	657	671	661
121:	653	730	779	690	663	676	695	693
129:	692	678	708	614	683	695	719	734
137:	759	701	694	737	759	779	801	1383
145:	1432	756	616	703	658	667	726	660
153:	718	982	1174	664	640	713	711	612
161:	642	674	618	624	616	546	583	626
169:	563	590	580	532	512	573	552	520
177:	580	548	551	604	561	550	550	564
185:	570	1439	1851	662	518	554	515	517
193:	520	539	515	537	543	535	519	497
201:	487	498	416	467	484	488	457	435
209:	408	465	500	439	422	423	402	426
217:	371	424	394	455	407	397	411	418
225:	409	379	390	342	390	393	403	400
233:	386	388	488	1034	889	454	614	468
241:	551	1946	1765	462	338	331	307	333
249:	315	318	353	303	351	411	415	566
257:	656	372	379	381	280	287	273	268
265:	296	283	275	321	628	1146	863	872
273:	363	314	392	281	288	275	271	277
281:	269	313	263	355	283	347	310	238
289:	284	265	245	238	275	473	2905	4007
297:	735	272	321	450	429	273	351	242
305:	272	234	224	202	204	218	218	216
313:	244	233	233	202	206	196	209	190
321:	191	196	239	370	293	193	194	232
329:	242	436	311	190	203	268	239	194
337:	183	308	341	225	208	213	206	221
345:	171	177	208	192	226	352	1801	7190
353:	4167	467	239	226	163	149	149	146
361:	140	154	132	148	134	125	128	135

369:	150	135	169	162	157	184	140	143

Sample Title: FEEBRISID-11 085-086

Channel								
377:	144	149	133	140	140	137	148	154
385:	144	170	191	161	179	164	136	136
393:	141	158	139	153	154	122	129	157
401:	214	405	280	182	311	248	160	154
409:	154	129	152	148	168	142	160	144
417:	137	142	144	136	162	149	146	154
425:	136	159	206	200	146	138	151	138
433:	109	128	130	102	121	99	111	103
441:	96	108	103	118	133	144	111	108
449:	103	78	119	98	105	100	128	123
457:	96	121	99	107	112	137	141	94
465:	85	94	98	99	88	102	104	98
473:	104	99	97	85	88	94	92	105
481:	149	92	86	104	99	91	138	130
489:	76	84	82	73	88	98	81	91
497:	79	82	73	74	85	83	90	80
505:	67	63	79	54	111	139	120	161
513:	99	71	76	75	76	67	77	70
521:	71	81	71	73	66	75	74	82
529:	91	67	74	74	90	96	80	87
537:	75	90	73	72	57	68	85	85
545:	85	74	80	74	71	83	73	77
553:	61	74	69	74	71	74	71	73
561:	76	81	71	85	77	89	71	61
569:	77	81	68	65	84	67	67	78
577:	77	82	76	112	92	97	142	134
585:	70	68	68	65	79	73	60	65
593:	64	69	66	73	83	78	65	62
601:	66	62	72	60	78	79	136	569
609:	3678	4230	758	124	104	103	62	55
617:	60	48	57	48	59	48	57	54
625:	57	50	54	54	52	50	61	48
633:	51	55	51	60	51	49	58	44
641:	41	53	55	49	51	51	43	49
649:	63	55	47	47	47	43	53	44
657:	46	56	52	58	63	65	62	58
665:	137	183	78	52	55	54	52	38
673:	45	56	48	45	41	49	46	44
681:	47	63	54	43	55	56	61	48
689:	60	52	45	43	43	45	56	56
697:	42	49	50	33	52	58	94	80
705:	67	42	55	54	45	51	50	51
713:	46	53	42	45	45	51	62	78
721:	70	47	47	46	46	50	60	50
729:	49	53	48	52	44	42	51	40
737:	47	56	59	36	52	63	69	65
745:	44	41	46	26	35	50	42	49
753:	50	50	37	53	48	50	61	50
761:	38	42	45	48	54	80	120	350
769:	410	128	59	43	45	37	38	31
777:	46	37	36	33	47	33	45	41
785:	85	138	80	59	46	34	45	53
793:	44	46	44	43	42	31	55	38

801:	46	38	41	59	72	116	130	49

Sample Title: FEEBRISID-11 085-086

Channel								
809:	41	41	33	40	42	46	39	29
817:	43	29	47	43	61	46	41	40
825:	40	67	63	43	41	52	70	113
833:	100	49	61	41	47	49	86	77
841:	41	45	46	38	39	45	40	53
849:	37	40	45	41	39	27	42	36
857:	51	41	45	55	47	40	41	52
865:	39	49	40	45	44	57	43	48
873:	58	43	49	48	53	41	48	37
881:	35	50	38	41	50	36	37	42
889:	41	45	45	37	48	38	44	51
897:	46	53	48	40	42	40	42	36
905:	46	40	44	58	52	53	92	94
913:	61	41	42	51	44	41	44	44
921:	40	45	56	43	37	47	44	45
929:	40	51	45	45	97	280	218	66
937:	38	39	42	50	34	38	33	38
945:	37	44	37	33	36	39	44	37
953:	36	44	35	41	43	39	35	32
961:	54	38	53	67	55	44	31	33
969:	59	45	36	39	33	50	34	36
977:	35	32	35	40	36	30	37	47
985:	23	41	42	36	41	39	33	28
993:	38	25	41	35	37	52	26	47
1001:	44	37	39	21	37	38	39	42
1009:	33	37	24	40	29	26	31	34
1017:	35	32	43	40	35	23	40	43
1025:	33	36	28	25	35	28	26	35
1033:	23	40	25	31	33	33	35	31
1041:	25	28	33	28	28	31	28	18
1049:	39	37	31	53	39	32	28	32
1057:	31	42	22	27	38	21	25	27
1065:	29	35	27	31	41	42	37	33
1073:	25	27	28	34	33	33	23	25
1081:	21	18	34	38	28	25	21	38
1089:	28	30	45	34	40	27	22	22
1097:	28	21	27	30	34	32	19	34
1105:	34	32	26	30	36	39	31	29
1113:	23	33	34	40	29	47	294	897
1121:	729	176	46	42	38	24	30	26
1129:	40	27	32	30	36	41	26	31
1137:	29	24	26	27	24	31	33	17
1145:	24	22	34	29	23	26	20	38
1153:	43	58	123	86	39	28	15	15
1161:	29	26	22	26	25	26	22	32
1169:	27	24	21	32	24	29	29	17
1177:	24	24	23	21	38	35	21	22
1185:	29	30	23	25	31	19	24	23
1193:	28	29	29	30	28	14	32	17
1201:	25	27	22	24	30	23	39	49
1209:	35	29	21	31	30	24	23	21
1217:	22	20	26	26	26	26	28	28
1225:	18	25	27	27	25	32	27	30

1233:	23	19	21	38	127	316	215	52

Sample Title: FEEBRISID-11 085-086

Channel								
1241:	28	30	25	21	22	25	21	18
1249:	29	15	19	32	30	39	28	28
1257:	27	22	27	19	30	17	23	25
1265:	26	30	21	21	19	28	28	27
1273:	25	31	29	17	25	23	22	67
1281:	109	55	23	21	29	27	29	19
1289:	16	23	17	23	17	23	23	24
1297:	16	19	29	24	18	20	25	25
1305:	19	11	17	19	31	21	22	19
1313:	27	19	17	19	30	20	17	19
1321:	24	15	15	21	14	25	20	24
1329:	21	19	24	22	19	26	19	20
1337:	24	28	23	26	19	24	19	23
1345:	12	26	17	15	21	19	21	19
1353:	11	17	18	22	24	25	23	23
1361:	21	30	22	19	25	25	18	19
1369:	10	22	18	21	19	23	24	62
1377:	213	200	85	24	17	28	26	26
1385:	60	33	17	17	21	24	20	24
1393:	20	16	19	15	14	21	17	29
1401:	63	84	31	21	18	31	84	134
1409:	85	29	14	20	16	11	19	21
1417:	24	24	18	16	23	19	19	18
1425:	23	24	12	21	15	16	21	20
1433:	24	18	23	15	22	27	20	12
1441:	19	25	17	15	20	17	14	25
1449:	19	22	21	19	27	21	23	18
1457:	20	13	51	130	182	69	25	24
1465:	16	18	26	22	19	22	28	22
1473:	19	30	16	23	16	20	22	25
1481:	20	11	21	14	20	19	20	16
1489:	22	18	25	27	25	21	16	26
1497:	21	24	22	21	18	16	14	21
1505:	20	27	33	89	131	65	40	20
1513:	23	21	21	18	28	24	19	19
1521:	22	31	20	24	27	22	16	17
1529:	23	24	28	16	15	16	19	10
1537:	26	42	44	26	17	23	34	25
1545:	29	19	18	18	20	9	9	19
1553:	15	16	14	16	23	11	12	9
1561:	14	18	11	13	17	17	10	9
1569:	16	17	11	19	13	26	13	11
1577:	18	14	15	13	21	33	49	28
1585:	17	15	22	19	14	17	16	14
1593:	19	25	21	23	9	23	24	23
1601:	12	18	11	11	9	12	20	17
1609:	11	8	9	17	7	9	9	10
1617:	17	14	16	12	13	11	10	14
1625:	17	11	9	17	8	12	8	9
1633:	8	13	14	8	8	10	7	14
1641:	4	8	10	5	9	12	9	8
1649:	4	14	8	6	11	7	11	7
1657:	9	5	12	28	54	39	15	14

1665:	6	6	8	11	5	5	12	7

Sample Title: FEEBRISID-11 085-086

Channel								
1673:	10	5	9	8	6	2	7	8
1681:	3	8	9	18	8	4	6	11
1689:	8	6	9	12	11	16	8	8
1697:	6	8	7	4	8	4	4	7
1705:	9	6	7	5	3	5	7	5
1713:	6	5	9	6	4	6	7	5
1721:	7	5	8	7	8	5	14	47
1729:	136	122	46	14	8	6	9	8
1737:	7	10	6	7	8	3	9	1
1745:	9	5	6	8	4	9	10	12
1753:	5	6	15	5	6	7	10	15
1761:	10	48	288	624	502	148	25	12
1769:	9	7	2	6	10	4	3	3
1777:	8	5	11	4	8	7	10	8
1785:	6	6	2	8	7	6	3	8
1793:	2	4	2	6	6	4	7	4
1801:	3	4	8	3	6	2	4	5
1809:	7	5	5	8	7	6	5	5
1817:	6	4	5	5	6	3	4	8
1825:	5	6	3	4	4	3	8	7
1833:	4	7	4	10	18	15	6	7
1841:	7	9	7	8	11	52	80	62
1849:	14	7	10	6	3	2	5	2
1857:	3	3	8	4	4	7	4	4
1865:	2	8	4	6	2	2	7	12
1873:	10	8	8	7	8	3	6	4
1881:	7	4	5	5	7	6	3	8
1889:	8	17	3	5	6	10	15	9
1897:	5	9	4	6	3	3	7	4
1905:	7	9	4	4	3	9	7	5
1913:	6	3	8	7	6	3	5	9
1921:	9	5	1	8	3	3	3	8
1929:	7	8	7	4	4	5	13	13
1937:	8	4	2	9	3	1	3	3
1945:	7	5	3	2	5	4	4	9
1953:	9	9	4	5	3	2	4	9
1961:	6	4	3	0	3	7	6	6
1969:	6	2	5	4	3	12	3	4
1977:	7	10	3	2	5	4	7	5
1985:	11	3	5	7	10	3	3	2
1993:	6	6	4	5	4	3	3	6
2001:	2	3	3	8	3	1	4	3
2009:	5	4	6	7	3	4	4	5
2017:	10	7	4	3	4	2	6	2
2025:	1	5	3	2	1	4	5	5
2033:	7	3	3	4	2	1	1	3
2041:	2	5	3	5	4	2	6	2
2049:	4	1	5	4	2	1	3	2
2057:	2	4	1	5	3	2	3	3
2065:	1	2	3	0	5	3	2	3
2073:	2	4	4	4	3	4	3	7
2081:	3	1	4	4	4	3	6	3
2089:	3	4	1	1	4	2	1	0

2097:	2	4	1	5	1	2	5	3

Sample Title: FEEBRISID-11 085-086

Channel								
2105:	2	3	1	3	2	7	2	0
2113:	2	1	1	6	29	40	24	7
2121:	2	4	2	1	1	2	3	2
2129:	1	2	2	1	0	4	4	6
2137:	5	2	2	4	1	5	1	1
2145:	2	0	1	3	1	1	1	0
2153:	2	0	3	2	2	0	3	3
2161:	3	5	2	3	1	1	4	4
2169:	3	0	0	1	1	2	2	1
2177:	1	3	1	4	1	2	0	2
2185:	2	2	2	0	1	2	3	5
2193:	3	1	2	3	3	2	1	3
2201:	14	57	142	142	65	9	5	4
2209:	0	0	4	2	3	2	1	2
2217:	1	1	1	1	1	1	2	0
2225:	1	1	0	0	0	0	3	2
2233:	2	0	1	1	2	3	1	5
2241:	3	1	3	1	1	3	4	1
2249:	1	1	6	0	2	1	0	0
2257:	2	1	5	5	0	1	0	0
2265:	1	3	1	1	2	2	0	1
2273:	0	3	0	1	3	2	1	0
2281:	0	0	2	1	2	0	4	1
2289:	0	2	6	10	8	4	2	0
2297:	0	3	3	0	0	3	0	0
2305:	2	0	1	2	1	1	1	3
2313:	0	1	3	0	1	1	2	2
2321:	4	1	1	1	1	0	0	1
2329:	0	1	1	2	2	1	0	2
2337:	2	0	2	2	0	1	0	0
2345:	2	1	3	0	1	1	1	0
2353:	1	0	1	4	2	0	1	1
2361:	0	1	4	0	0	1	1	1
2369:	1	2	0	0	0	1	1	0
2377:	0	0	2	3	2	0	2	1
2385:	1	0	0	1	0	2	2	1
2393:	0	1	0	0	2	1	2	0
2401:	0	1	1	0	3	1	1	0
2409:	1	0	2	1	0	2	2	1
2417:	0	0	1	2	0	2	0	0
2425:	1	1	1	2	1	1	0	1
2433:	0	1	0	1	0	0	3	1
2441:	1	0	0	2	9	39	50	22
2449:	6	3	2	3	0	0	1	2
2457:	1	0	0	2	2	0	0	0
2465:	0	0	0	1	0	0	1	2
2473:	0	1	0	1	0	2	0	0
2481:	1	1	1	0	0	2	1	0
2489:	2	1	2	1	2	0	0	1
2497:	0	0	0	0	0	0	2	0
2505:	1	0	0	0	0	2	0	0
2513:	1	0	0	0	0	0	0	0
2521:	0	0	1	1	0	0	1	1

2529:	1	0	0	0	1	0	0	0

Sample Title: FEEBRISID-11 085-086

Channel								
2537:	0	0	0	1	1	1	1	2
2545:	0	0	0	0	0	0	0	0
2553:	0	1	0	0	1	0	1	0
2561:	1	0	0	1	0	0	1	0
2569:	1	1	0	0	1	0	1	1
2577:	0	0	1	0	2	0	1	0
2585:	0	0	1	1	3	1	1	0
2593:	1	2	0	0	0	1	0	0
2601:	1	0	0	2	0	0	0	0
2609:	0	0	0	6	21	15	11	2
2617:	1	2	1	0	0	1	1	0
2625:	0	1	0	1	0	0	0	1
2633:	0	0	0	0	0	0	0	0
2641:	0	1	0	0	0	0	1	0
2649:	0	2	0	0	0	0	0	0
2657:	0	1	0	0	0	1	0	1
2665:	0	0	1	0	0	1	0	0
2673:	0	1	0	0	1	1	0	0
2681:	1	0	1	1	1	0	0	0
2689:	0	0	0	1	1	0	1	0
2697:	0	2	0	0	0	0	0	0
2705:	0	1	1	0	0	1	2	0
2713:	0	0	0	0	0	0	0	0
2721:	0	1	1	1	1	0	1	0
2729:	1	0	0	0	0	0	0	0
2737:	0	2	0	0	0	0	0	0
2745:	0	1	0	0	0	1	0	0
2753:	1	0	1	1	0	0	0	0
2761:	0	0	0	1	0	0	2	0
2769:	0	0	1	1	0	1	0	0
2777:	0	1	0	0	0	0	0	0
2785:	0	1	0	0	0	0	0	0
2793:	0	0	1	1	0	2	1	0
2801:	0	0	0	0	0	0	0	0
2809:	1	0	0	0	0	0	0	0
2817:	1	0	2	1	2	0	0	0
2825:	0	1	1	0	0	0	0	0
2833:	2	0	0	1	1	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	1
2857:	0	1	0	0	0	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	1	0	1	0	0	0	1	1
2881:	0	1	0	1	0	0	1	0
2889:	0	0	0	0	0	0	1	1
2897:	0	1	0	0	1	0	1	1
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	1	0	0	2
2921:	0	0	0	0	1	0	0	0
2929:	0	0	0	0	1	1	0	0
2937:	1	0	0	0	0	0	0	0
2945:	0	0	1	0	0	0	0	1
2953:	0	0	2	0	0	0	0	0

2961:	0	0	0	0	2	0	0	0

Sample Title: FEEBRISID-11 085-086

Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	1	0	0	0	0	0	0
2985:	0	0	0	0	0	1	0	0
2993:	1	0	0	0	0	0	0	0
3001:	0	0	1	0	0	1	1	0
3009:	0	1	0	0	0	0	0	0
3017:	0	0	0	0	0	0	1	0
3025:	0	1	1	0	0	0	0	0
3033:	0	0	0	0	0	0	1	0
3041:	0	0	0	0	0	0	0	0
3049:	1	2	0	1	4	0	2	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	1	0	0
3073:	0	0	0	1	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	1	0	0	0	0	0	0	1
3097:	0	0	0	1	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	1	0	0	0	0	1	0	1
3121:	0	0	0	0	1	1	1	1
3129:	0	0	1	0	0	0	0	0
3137:	0	0	0	0	0	1	2	0
3145:	0	0	0	1	0	0	0	0
3153:	0	0	0	0	1	0	0	1
3161:	0	0	0	0	0	0	0	0
3169:	1	1	0	0	0	0	0	1
3177:	0	0	0	0	0	1	0	0
3185:	0	1	0	0	0	0	0	0
3193:	0	0	0	0	1	0	0	0
3201:	0	1	0	0	0	1	0	0
3209:	0	0	1	0	0	0	1	0
3217:	0	0	0	0	1	0	1	0
3225:	0	1	1	0	1	1	0	0
3233:	0	0	1	0	1	0	1	0
3241:	0	0	0	0	1	0	0	1
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	1	0	0	0	1	0	1	0
3273:	0	0	0	0	0	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	1	1	1	0
3297:	0	0	0	0	0	0	2	0
3305:	0	0	0	0	0	0	1	0
3313:	0	0	0	0	0	0	0	1
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	1	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	1
3353:	1	0	0	0	0	0	1	0
3361:	1	0	0	1	0	0	0	0
3369:	0	0	0	0	1	0	0	0
3377:	0	0	1	0	0	0	0	0
3385:	0	1	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-11 085-086

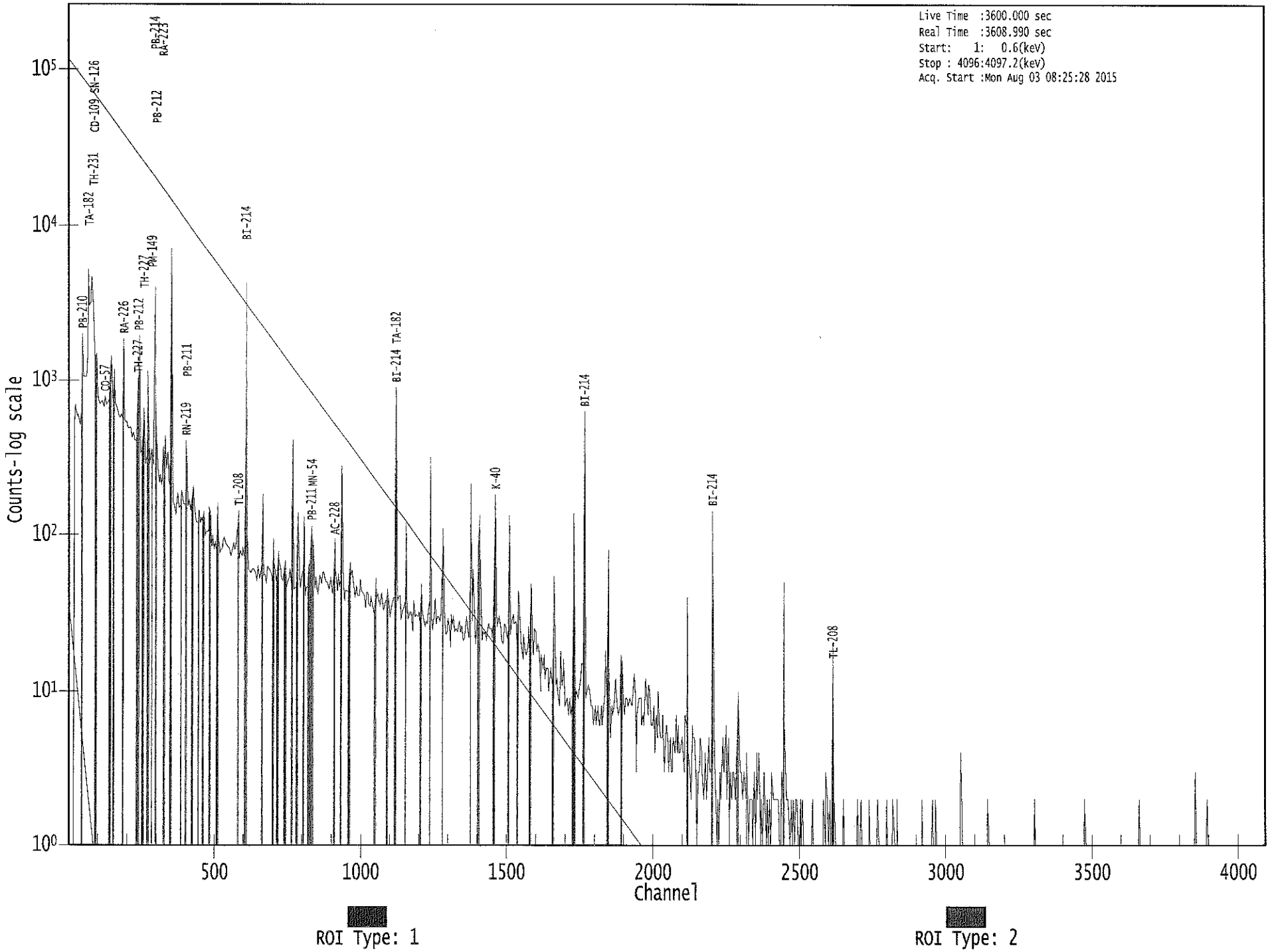
Channel								
3401:	1	0	0	0	0	0	1	0
3409:	0	0	0	0	0	1	0	0
3417:	0	0	0	1	0	0	1	0
3425:	1	0	0	0	0	0	0	1
3433:	1	0	0	1	0	1	0	0
3441:	0	0	0	1	1	1	0	0
3449:	0	0	1	0	0	0	0	0
3457:	0	0	1	1	1	0	1	0
3465:	0	0	0	0	0	0	0	0
3473:	0	2	0	0	1	0	1	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	1	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	1	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	1	1	0	0	0	0
3537:	0	0	0	0	0	0	1	0
3545:	0	0	0	1	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	1	0	0	0	0	0	0	0
3577:	0	0	0	1	0	0	0	0
3585:	0	0	0	0	0	1	0	0
3593:	1	0	0	0	0	0	0	0
3601:	0	0	0	0	1	1	0	0
3609:	0	0	0	1	0	0	0	0
3617:	0	1	0	1	0	0	0	0
3625:	0	0	0	1	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	1	0	1	0	0	0	0	0
3649:	0	0	1	0	1	0	0	0
3657:	0	0	1	0	0	2	0	0
3665:	0	0	0	0	0	1	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	1	0	0	1	0	1	0
3689:	1	0	1	0	0	0	0	1
3697:	0	0	0	0	1	0	0	0
3705:	0	1	0	1	0	0	0	1
3713:	0	0	0	0	0	1	0	1
3721:	0	0	0	0	0	0	1	0
3729:	0	0	0	0	0	0	0	0
3737:	0	1	0	0	0	0	0	0
3745:	0	0	0	1	0	0	0	1
3753:	0	0	0	0	0	0	0	0
3761:	1	0	0	0	0	0	0	0
3769:	1	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	1
3793:	1	0	0	0	0	0	0	0
3801:	0	0	1	1	0	0	0	0
3809:	0	0	1	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	1	0	0	0	0	0

Sample Title: FEEBRISID-11 085-086

Channel								
3833:	1	0	0	0	0	1	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	1	0	0	3	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	1	0	0	0	0	0	0
3889:	0	0	1	0	0	0	2	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	1	1	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	1	0	0	0	1	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	1	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	1	1	0	1	0	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	1	0
4049:	0	0	0	0	0	0	0	0
4057:	1	1	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	1	0	0	0	0	0	0	0
4081:	1	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	1	0

0000025459.CNF



Apex-Gamma

Analysis Report for 1507047-12
FEEBRISID-11 087-088

8/3

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507047-12
Sample Description	: FEEBRISID-11 087-088
Sample Type	: SOIL
Sample Size	: 5.815E+02 grams
Facility	: Countroom
Sample Taken On	: 7/2/2015 7:55:57AM
Acquisition Started	: 8/3/2015 8:25:34AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25460

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 8/3/15

Analysis Report for 1507047-12

FEEBRISID-11 087-088

PEAK LOCATE REPORT

Peak Locate Performed on : 8/3/2015 9:25:39AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	13.82	13.94	0.0000	0.00
2	40.95	41.06	0.0000	0.00
3	53.74	53.84	0.0000	0.00
4	62.73	62.83	0.0000	0.00
5	76.41	76.50	0.0000	0.00
6	92.80	92.88	0.0000	0.00
7	154.43	154.47	0.0000	0.00
8	185.80	185.83	0.0000	0.00
9	209.08	209.09	0.0000	0.00
10	238.89	238.89	0.0000	0.00
11	242.04	242.03	0.0000	0.00
12	269.19	269.17	0.0000	0.00
13	295.12	295.09	0.0000	0.00
14	301.37	301.33	0.0000	0.00
15	338.32	338.27	0.0000	0.00
16	351.98	351.91	0.0000	0.00
17	400.57	400.48	0.0000	0.00
18	410.38	410.29	0.0000	0.00
19	454.38	454.27	0.0000	0.00
20	514.15	514.00	0.0000	0.00
21	562.97	562.80	0.0000	0.00
22	583.19	583.01	0.0000	0.00
23	609.59	609.40	0.0000	0.00
24	661.86	661.64	0.0000	0.00
25	665.20	664.98	0.0000	0.00
26	727.90	727.66	0.0000	0.00
27	794.98	794.71	0.0000	0.00
28	805.58	805.30	0.0000	0.00
29	881.51	881.19	0.0000	0.00
30	887.32	887.00	0.0000	0.00
31	911.61	911.28	0.0000	0.00
32	934.13	933.80	0.0000	0.00
33	965.07	964.73	0.0000	0.00
34	989.69	989.34	0.0000	0.00
35	993.81	993.45	0.0000	0.00
36	1004.29	1003.93	0.0000	0.00
37	1030.37	1030.00	0.0000	0.00
38	1116.27	1115.86	0.0000	0.00
39	1121.07	1120.66	0.0000	0.00
40	1237.99	1237.54	0.0000	0.00
41	1312.70	1312.22	0.0000	0.00
42	1323.26	1322.78	0.0000	0.00

Analysis Report for 1507047-12

FEEBRISID-11 087-088

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1336.82	1336.34	0.0000	0.00
44	1361.19	1360.70	0.0000	0.00
45	1374.72	1374.22	0.0000	0.00
46	1378.29	1377.79	0.0000	0.00
47	1461.35	1460.83	0.0000	0.00
48	1498.56	1498.03	0.0000	0.00
49	1509.47	1508.93	0.0000	0.00
50	1518.67	1518.13	0.0000	0.00
51	1589.20	1588.64	0.0000	0.00
52	1650.74	1650.17	0.0000	0.00
53	1730.12	1729.53	0.0000	0.00
54	1764.79	1764.18	0.0000	0.00
55	1815.12	1814.50	0.0000	0.00
56	1848.77	1848.15	0.0000	0.00
57	1855.72	1855.09	0.0000	0.00
58	2063.67	2063.00	0.0000	0.00
59	2102.10	2101.43	0.0000	0.00
60	2347.96	2347.25	0.0000	0.00
61	2614.67	2613.93	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507047-12

FEEBRISID-11 087-088

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 9:25:39AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	13.82	12	17	13.94	1.63E+03	162.13	3.29E+03	1.12
	2	40.95	39	43	41.06	5.43E+01	65.18	9.03E+02	2.88
	3	53.74	52	56	53.84	5.66E+01	60.59	7.51E+02	1.76
	4	62.73	59	66	62.83	1.46E+02	85.65	1.13E+03	2.01
	5	76.41	72	82	76.50	5.47E+02	124.23	1.75E+03	3.69
	6	92.80	89	97	92.88	2.10E+02	97.20	1.25E+03	1.64
	7	154.43	152	157	154.47	4.40E+01	53.31	5.32E+02	1.88
	8	185.80	182	188	185.83	1.46E+02	65.17	6.62E+02	1.30
	9	209.08	206	211	209.09	8.12E+01	47.83	3.88E+02	2.04
M	10	238.89	234	245	238.89	4.05E+02	58.17	3.31E+02	1.55
m	11	242.04	234	245	242.03	9.18E+01	46.47	3.02E+02	1.56
	12	269.19	265	272	269.17	1.02E+02	47.71	3.10E+02	2.43
	13	295.12	291	299	295.09	1.58E+02	63.31	5.24E+02	1.44
	14	301.37	299	304	301.33	5.30E+01	38.11	2.42E+02	3.73
	15	338.32	335	340	338.27	8.49E+01	35.58	1.84E+02	1.59
	16	351.98	348	354	351.91	4.10E+02	52.13	1.96E+02	1.50
	17	400.57	397	404	400.48	3.24E+01	37.09	2.07E+02	2.06
	18	410.38	406	413	410.29	4.12E+01	36.28	1.92E+02	1.15
	19	454.38	451	457	454.27	2.65E+01	32.06	1.67E+02	1.02
m	20	514.15	506	521	514.00	1.86E+01	24.16	8.22E+01	1.61
	21	562.97	559	566	562.80	3.68E+01	30.53	1.28E+02	1.64
	22	583.19	578	585	583.01	1.60E+02	36.61	1.19E+02	1.48
	23	609.59	604	612	609.40	2.44E+02	43.77	1.46E+02	1.68
M	24	661.86	658	670	661.64	2.53E+02	35.97	5.43E+01	1.87
m	25	665.20	658	670	664.98	2.34E+01	30.95	4.98E+01	2.12
	26	727.90	725	730	727.66	3.08E+01	21.12	6.24E+01	2.07
	27	794.98	793	796	794.71	9.00E+00	12.17	2.80E+01	1.30
	28	805.58	800	809	805.30	2.91E+01	25.28	7.38E+01	3.57
M	29	881.51	879	890	881.19	1.78E+01	10.77	1.85E+01	2.12
m	30	887.32	879	890	887.00	1.08E+01	13.86	2.11E+01	1.93
	31	911.61	907	915	911.28	1.02E+02	31.06	8.52E+01	1.73
	32	934.13	929	938	933.80	2.90E+01	24.62	7.00E+01	4.74
M	33	965.07	960	983	964.73	2.30E+01	26.92	1.08E+02	2.91
M	34	989.69	987	996	989.34	9.75E+00	10.58	1.90E+01	2.67
m	35	993.81	987	996	993.45	1.65E+01	16.85	3.45E+01	2.68
	36	1004.29	1001	1008	1003.93	1.39E+01	16.25	3.23E+01	1.07
	37	1030.37	1025	1035	1030.00	2.60E+01	20.83	4.40E+01	2.93
M	38	1116.27	1115	1123	1115.86	1.38E+01	3.74	5.86E+00	2.31
m	39	1121.07	1115	1123	1120.66	6.19E+01	18.87	2.02E+01	2.09
	40	1237.99	1231	1245	1237.54	3.77E+01	32.79	9.67E+01	3.55

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	1312.70	1310 -	1334	1312.22	9.61E+00	8.67	6.22E+00	2.45
m	42	1323.26	1310 -	1334	1322.78	1.05E+01	11.72	1.93E+01	2.45
	43	1336.82	1334 -	1340	1336.34	8.19E+00	10.63	1.56E+01	1.92
	44	1361.19	1353 -	1368	1360.70	3.03E+01	14.14	7.32E+00	10.35
M	45	1374.72	1373 -	1380	1374.22	8.73E+00	4.90	2.40E+00	3.29
m	46	1378.29	1373 -	1380	1377.79	1.35E+01	10.77	1.41E+01	2.77
	47	1461.35	1455 -	1466	1460.83	2.13E+02	33.05	2.91E+01	2.05
	48	1498.56	1495 -	1502	1498.03	1.66E+01	9.59	4.84E+00	1.96
	49	1509.47	1506 -	1512	1508.93	1.35E+01	9.62	7.00E+00	1.46
	50	1518.67	1514 -	1522	1518.13	1.04E+01	11.17	1.13E+01	2.91
	51	1589.20	1584 -	1593	1588.64	1.57E+01	15.39	2.45E+01	1.68
	52	1650.74	1648 -	1652	1650.17	6.00E+00	4.90	0.00E+00	1.98
	53	1730.12	1724 -	1732	1729.53	1.14E+01	14.88	2.71E+01	2.30
	54	1764.79	1760 -	1768	1764.18	4.90E+01	17.69	1.80E+01	2.35
	55	1815.12	1810 -	1817	1814.50	6.88E+00	9.80	1.03E+01	2.92
	56	1848.77	1846 -	1851	1848.15	8.00E+00	6.71	2.00E+00	2.78
	57	1855.72	1852 -	1858	1855.09	1.10E+01	6.63	0.00E+00	1.25
	58	2063.67	2060 -	2065	2063.00	5.00E+00	4.47	0.00E+00	1.50
	59	2102.10	2097 -	2104	2101.43	9.23E+00	7.75	3.55E+00	1.84
	60	2347.96	2343 -	2350	2347.25	8.00E+00	5.66	0.00E+00	1.98
	61	2614.67	2608 -	2618	2613.93	6.11E+01	16.92	5.83E+00	3.21

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/3/2015 9:25:39AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	13.82	12 -	17	1.63E+03	162.13	3.29E+03	1.16E+02
2	40.95	39 -	43	5.43E+01	65.18	9.03E+02	5.22E+01
3	53.74	52 -	56	5.66E+01	60.59	7.51E+02	4.82E+01
4	62.73	59 -	66	1.46E+02	85.65	1.13E+03	6.75E+01
5	76.41	72 -	82	5.47E+02	124.23	1.75E+03	9.46E+01
6	92.80	89 -	97	2.10E+02	97.20	1.25E+03	7.63E+01
7	154.43	152 -	157	4.40E+01	53.31	5.32E+02	4.24E+01

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	8	185.80	182 -	188	1.46E+02	65.17	6.62E+02	4.98E+01
	9	209.08	206 -	211	8.12E+01	47.83	3.88E+02	3.64E+01
M	10	238.89	234 -	245	4.05E+02	58.17	3.31E+02	2.99E+01
m	11	242.04	234 -	245	9.18E+01	46.47	3.02E+02	2.86E+01
	12	269.19	265 -	272	1.02E+02	47.71	3.10E+02	3.55E+01
	13	295.12	291 -	299	1.58E+02	63.31	5.24E+02	4.78E+01
	14	301.37	299 -	304	5.30E+01	38.11	2.42E+02	2.89E+01
	15	338.32	335 -	340	8.49E+01	35.58	1.84E+02	2.50E+01
	16	351.98	348 -	354	4.10E+02	52.13	1.96E+02	2.70E+01
	17	400.57	397 -	404	3.24E+01	37.09	2.07E+02	2.90E+01
	18	410.38	406 -	413	4.12E+01	36.28	1.92E+02	2.79E+01
	19	454.38	451 -	457	2.65E+01	32.06	1.67E+02	2.50E+01
m	20	514.15	506 -	521	1.86E+01	24.16	8.22E+01	1.49E+01
	21	562.97	559 -	566	3.68E+01	30.53	1.28E+02	2.30E+01
	22	583.19	578 -	585	1.60E+02	36.61	1.19E+02	2.18E+01
	23	609.59	604 -	612	2.44E+02	43.77	1.46E+02	2.52E+01
M	24	661.86	658 -	670	2.53E+02	35.97	5.43E+01	1.21E+01
m	25	665.20	658 -	670	2.34E+01	30.95	4.98E+01	1.16E+01
	26	727.90	725 -	730	3.08E+01	21.12	6.24E+01	1.48E+01
	27	794.98	793 -	796	9.00E+00	12.17	2.80E+01	8.70E+00
	28	805.58	800 -	809	2.91E+01	25.28	7.38E+01	1.88E+01
M	29	881.51	879 -	890	1.78E+01	10.77	1.85E+01	7.06E+00
m	30	887.32	879 -	890	1.08E+01	13.86	2.11E+01	7.55E+00
	31	911.61	907 -	915	1.02E+02	31.06	8.52E+01	1.94E+01
	32	934.13	929 -	938	2.90E+01	24.62	7.00E+01	1.82E+01
M	33	965.07	960 -	983	2.30E+01	26.92	1.08E+02	1.70E+01
M	34	989.69	987 -	996	9.75E+00	10.58	1.90E+01	7.17E+00
m	35	993.81	987 -	996	1.65E+01	16.85	3.45E+01	9.66E+00
	36	1004.29	1001 -	1008	1.39E+01	16.25	3.23E+01	1.19E+01
	37	1030.37	1025 -	1035	2.60E+01	20.83	4.40E+01	1.49E+01
M	38	1116.27	1115 -	1123	1.38E+01	3.74	5.86E+00	3.98E+00
m	39	1121.07	1115 -	1123	6.19E+01	18.87	2.02E+01	7.39E+00
	40	1237.99	1231 -	1245	3.77E+01	32.79	9.67E+01	2.50E+01
M	41	1312.70	1310 -	1334	9.61E+00	8.67	6.22E+00	4.10E+00
m	42	1323.26	1310 -	1334	1.05E+01	11.72	1.93E+01	7.22E+00
	43	1336.82	1334 -	1340	8.19E+00	10.63	1.56E+01	7.36E+00
	44	1361.19	1353 -	1368	3.03E+01	14.14	7.32E+00	7.29E+00
M	45	1374.72	1373 -	1380	8.73E+00	4.90	2.40E+00	2.55E+00
m	46	1378.29	1373 -	1380	1.35E+01	10.77	1.41E+01	6.17E+00
	47	1461.35	1455 -	1466	2.13E+02	33.05	2.91E+01	1.27E+01
	48	1498.56	1495 -	1502	1.66E+01	9.59	4.84E+00	4.17E+00
	49	1509.47	1506 -	1512	1.35E+01	9.62	7.00E+00	5.10E+00
	50	1518.67	1514 -	1522	1.04E+01	11.17	1.13E+01	7.50E+00
	51	1589.20	1584 -	1593	1.57E+01	15.39	2.45E+01	1.08E+01
	52	1650.74	1648 -	1652	6.00E+00	4.90	0.00E+00	0.00E+00
	53	1730.12	1724 -	1732	1.14E+01	14.88	2.71E+01	1.09E+01
	54	1764.79	1760 -	1768	4.90E+01	17.69	1.80E+01	8.89E+00
	55	1815.12	1810 -	1817	6.88E+00	9.80	1.03E+01	6.80E+00
	56	1848.77	1846 -	1851	8.00E+00	6.71	2.00E+00	2.96E+00
	57	1855.72	1852 -	1858	1.10E+01	6.63	0.00E+00	0.00E+00
	58	2063.67	2060 -	2065	5.00E+00	4.47	0.00E+00	0.00E+00

Analysis Report for 1507047-12

FEEBRISID-11 087-088

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
59	2102.10	2097 -	2104	9.23E+00	7.75	3.55E+00	3.95E+00
60	2347.96	2343 -	2350	8.00E+00	5.66	0.00E+00	0.00E+00
61	2614.67	2608 -	2618	6.11E+01	16.92	5.83E+00	5.32E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/3/2015 9:25:39AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	13.82	12 -	17	13.94	1.63E+03	162.13	3.29E+03	.....
	2	40.95	39 -	43	41.06	5.43E+01	65.18	9.03E+02	RA-225
	3	53.74	52 -	56	53.84	5.66E+01	60.59	7.51E+02	.....
	4	62.73	59 -	66	62.83	1.46E+02	85.65	1.13E+03	TH-230
									TH-234
	5	76.41	72 -	82	76.50	5.47E+02	124.23	1.75E+03	.....
	6	92.80	89 -	97	92.88	2.10E+02	97.20	1.25E+03	GA-67
	7	154.43	152 -	157	154.47	4.40E+01	53.31	5.32E+02	.....
	8	185.80	182 -	188	185.83	1.46E+02	65.17	6.62E+02	RA-226
	9	209.08	206 -	211	209.09	8.12E+01	47.83	3.88E+02	GA-67
									CM-243
M	10	238.89	234 -	245	238.89	4.05E+02	58.17	3.31E+02	PB-212
m	11	242.04	234 -	245	242.03	9.18E+01	46.47	3.02E+02	.....
	12	269.19	265 -	272	269.17	1.02E+02	47.71	3.10E+02	CS-135
	13	295.12	291 -	299	295.09	1.58E+02	63.31	5.24E+02	PB-214
	14	301.37	299 -	304	301.33	5.30E+01	38.11	2.42E+02	.....
	15	338.32	335 -	340	338.27	8.49E+01	35.58	1.84E+02	AC-228
	16	351.98	348 -	354	351.91	4.10E+02	52.13	1.96E+02	PB-214
	17	400.57	397 -	404	400.48	3.24E+01	37.09	2.07E+02	SE-75
	18	410.38	406 -	413	410.29	4.12E+01	36.28	1.92E+02	HO-166M
	19	454.38	451 -	457	454.27	2.65E+01	32.06	1.67E+02	PM-146
m	20	514.15	506 -	521	514.00	1.86E+01	24.16	8.22E+01	KR-85
									SR-85

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	21	562.97	559 -	566	562.80	3.68E+01	30.53	1.28E+02	CS-134
	22	583.19	578 -	585	583.01	1.60E+02	36.61	1.19E+02	TL-208
	23	609.59	604 -	612	609.40	2.44E+02	43.77	1.46E+02	BI-214
M	24	661.86	658 -	670	661.64	2.53E+02	35.97	5.43E+01	CS-137
m	25	665.20	658 -	670	664.98	2.34E+01	30.95	4.98E+01	CE-143
	26	727.90	725 -	730	727.66	3.08E+01	21.12	6.24E+01	BI-212
	27	794.98	793 -	796	794.71	9.00E+00	12.17	2.80E+01	CS-134
	28	805.58	800 -	809	805.30	2.91E+01	25.28	7.38E+01	.....
M	29	881.51	879 -	890	881.19	1.78E+01	10.77	1.85E+01	.....
m	30	887.32	879 -	890	887.00	1.08E+01	13.86	2.11E+01	.....
	31	911.61	907 -	915	911.28	1.02E+02	31.06	8.52E+01	LU-172 AC-228
	32	934.13	929 -	938	933.80	2.90E+01	24.62	7.00E+01	.....
M	33	965.07	960 -	983	964.73	2.30E+01	26.92	1.08E+02	.....
M	34	989.69	987 -	996	989.34	9.75E+00	10.58	1.90E+01	.....
m	35	993.81	987 -	996	993.45	1.65E+01	16.85	3.45E+01	.....
	36	1004.29	1001 -	1008	1003.93	1.39E+01	16.25	3.23E+01	EU-154
	37	1030.37	1025 -	1035	1030.00	2.60E+01	20.83	4.40E+01	.....
M	38	1116.27	1115 -	1123	1115.86	1.38E+01	3.74	5.86E+00	ZN-65
m	39	1121.07	1115 -	1123	1120.66	6.19E+01	18.87	2.02E+01	TA-182 SC-46 BI-214
	40	1237.99	1231 -	1245	1237.54	3.77E+01	32.79	9.67E+01	CO-56
M	41	1312.70	1310 -	1334	1312.22	9.61E+00	8.67	6.22E+00	V-48
m	42	1323.26	1310 -	1334	1322.78	1.05E+01	11.72	1.93E+01	.....
	43	1336.82	1334 -	1340	1336.34	8.19E+00	10.63	1.56E+01	.....
	44	1361.19	1353 -	1368	1360.70	3.03E+01	14.14	7.32E+00	.....
M	45	1374.72	1373 -	1380	1374.22	8.73E+00	4.90	2.40E+00	.....
m	46	1378.29	1373 -	1380	1377.79	1.35E+01	10.77	1.41E+01	.....
	47	1461.35	1455 -	1466	1460.83	2.13E+02	33.05	2.91E+01	K-40
	48	1498.56	1495 -	1502	1498.03	1.66E+01	9.59	4.84E+00	.....
	49	1509.47	1506 -	1512	1508.93	1.35E+01	9.62	7.00E+00	.....
	50	1518.67	1514 -	1522	1518.13	1.04E+01	11.17	1.13E+01	.....
	51	1589.20	1584 -	1593	1588.64	1.57E+01	15.39	2.45E+01	.....
	52	1650.74	1648 -	1652	1650.17	6.00E+00	4.90	0.00E+00	.....
	53	1730.12	1724 -	1732	1729.53	1.14E+01	14.88	2.71E+01	.....
	54	1764.79	1760 -	1768	1764.18	4.90E+01	17.69	1.80E+01	BI-214
	55	1815.12	1810 -	1817	1814.50	6.88E+00	9.80	1.03E+01	.....
	56	1848.77	1846 -	1851	1848.15	8.00E+00	6.71	2.00E+00	.....
	57	1855.72	1852 -	1858	1855.09	1.10E+01	6.63	0.00E+00	.....
	58	2063.67	2060 -	2065	2063.00	5.00E+00	4.47	0.00E+00	.....
	59	2102.10	2097 -	2104	2101.43	9.23E+00	7.75	3.55E+00	.....
	60	2347.96	2343 -	2350	2347.25	8.00E+00	5.66	0.00E+00	.....
	61	2614.67	2608 -	2618	2613.93	6.11E+01	16.92	5.83E+00	TL-208

Analysis Report for 1507047-12

FEEBRISID-11 087-088

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/3/2015 9:25:39AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	13.82	1.63E+03	162.13	8.83E-08	1.68E-03
	2	40.95	5.43E+01	65.18	8.92E-03	1.68E-03
	3	53.74	5.66E+01	60.59	1.86E-02	1.68E-03
	4	62.73	1.46E+02	85.65	2.35E-02	2.00E-03
	5	76.41	5.47E+02	124.23	2.74E-02	3.35E-03
	6	92.80	2.10E+02	97.20	2.85E-02	4.29E-03
	7	154.43	4.40E+01	53.31	2.37E-02	2.02E-03
	8	185.80	1.46E+02	65.17	2.11E-02	1.65E-03
	9	209.08	8.12E+01	47.83	1.95E-02	1.63E-03
M	10	238.89	4.05E+02	58.17	1.79E-02	1.60E-03
m	11	242.04	9.18E+01	46.47	1.77E-02	1.60E-03
	12	269.19	1.02E+02	47.71	1.65E-02	1.57E-03
	13	295.12	1.58E+02	63.31	1.55E-02	1.48E-03
	14	301.37	5.30E+01	38.11	1.53E-02	1.45E-03
	15	338.32	8.49E+01	35.58	1.41E-02	1.27E-03
	16	351.98	4.10E+02	52.13	1.37E-02	1.21E-03
	17	400.57	3.24E+01	37.09	1.25E-02	1.01E-03
	18	410.38	4.12E+01	36.28	1.23E-02	1.00E-03
	19	454.38	2.65E+01	32.06	1.15E-02	9.56E-04
m	20	514.15	1.86E+01	24.16	1.05E-02	8.95E-04
	21	562.97	3.68E+01	30.53	9.84E-03	8.45E-04
	22	583.19	1.60E+02	36.61	9.58E-03	8.25E-04
	23	609.59	2.44E+02	43.77	9.27E-03	7.98E-04
M	24	661.86	2.53E+02	35.97	8.70E-03	7.45E-04
m	25	665.20	2.34E+01	30.95	8.67E-03	7.43E-04
	26	727.90	3.08E+01	21.12	8.08E-03	7.03E-04
	27	794.98	9.00E+00	12.17	7.53E-03	6.60E-04
	28	805.58	2.91E+01	25.28	7.45E-03	6.53E-04
M	29	881.51	1.78E+01	10.77	6.93E-03	6.04E-04
m	30	887.32	1.08E+01	13.86	6.89E-03	6.00E-04
	31	911.61	1.02E+02	31.06	6.74E-03	5.86E-04
	32	934.13	2.90E+01	24.62	6.61E-03	5.75E-04
M	33	965.07	2.30E+01	26.92	6.44E-03	5.59E-04
M	34	989.69	9.75E+00	10.58	6.31E-03	5.47E-04

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	35	993.81	1.65E+01	16.85	6.28E-03	5.44E-04
	36	1004.29	1.39E+01	16.25	6.23E-03	5.39E-04
	37	1030.37	2.60E+01	20.83	6.10E-03	5.26E-04
M	38	1116.27	1.38E+01	3.74	5.72E-03	4.82E-04
m	39	1121.07	6.19E+01	18.87	5.70E-03	4.79E-04
	40	1237.99	3.77E+01	32.79	5.27E-03	4.83E-04
M	41	1312.70	9.61E+00	8.67	5.04E-03	5.17E-04
m	42	1323.26	1.05E+01	11.72	5.01E-03	5.22E-04
	43	1336.82	8.19E+00	10.63	4.98E-03	5.25E-04
	44	1361.19	3.03E+01	14.14	4.91E-03	5.15E-04
M	45	1374.72	8.73E+00	4.90	4.88E-03	5.09E-04
m	46	1378.29	1.35E+01	10.77	4.87E-03	5.07E-04
	47	1461.35	2.13E+02	33.05	4.67E-03	4.73E-04
	48	1498.56	1.66E+01	9.59	4.59E-03	4.58E-04
	49	1509.47	1.35E+01	9.62	4.57E-03	4.53E-04
	50	1518.67	1.04E+01	11.17	4.55E-03	4.49E-04
	51	1589.20	1.57E+01	15.39	4.43E-03	4.20E-04
	52	1650.74	6.00E+00	4.90	4.33E-03	3.95E-04
	53	1730.12	1.14E+01	14.88	4.23E-03	3.62E-04
	54	1764.79	4.90E+01	17.69	4.18E-03	3.47E-04
	55	1815.12	6.88E+00	9.80	4.13E-03	3.27E-04
	56	1848.77	8.00E+00	6.71	4.10E-03	3.18E-04
	57	1855.72	1.10E+01	6.63	4.09E-03	3.18E-04
	58	2063.67	5.00E+00	4.47	3.96E-03	3.18E-04
	59	2102.10	9.23E+00	7.75	3.95E-03	3.18E-04
	60	2347.96	8.00E+00	5.66	3.94E-03	3.18E-04
	61	2614.67	6.11E+01	16.92	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/3/2015 9:25:39AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	13.82	1.63E+03	162.13	1.24E+03	4.65E+01	3.95E+02	1.69E+02
2	40.95	5.43E+01	65.18			5.43E+01	6.52E+01
3	53.74	5.66E+01	60.59			5.66E+01	6.06E+01

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	4	62.73	1.46E+02	85.65			1.46E+02	8.57E+01
	5	76.41	5.47E+02	124.23			5.47E+02	1.24E+02
	6	92.80	2.10E+02	97.20	5.29E+01	8.67E+00	1.57E+02	9.76E+01
	7	154.43	4.40E+01	53.31			4.40E+01	5.33E+01
	8	185.80	1.46E+02	65.17	4.79E+01	7.81E+00	9.81E+01	6.56E+01
	9	209.08	8.12E+01	47.83			8.12E+01	4.78E+01
M	10	238.89	4.05E+02	58.17	2.21E+01	3.31E+00	3.83E+02	5.83E+01
m	11	242.04	9.18E+01	46.47	7.15E+00	2.42E+00	8.47E+01	4.65E+01
	12	269.19	1.02E+02	47.71			1.02E+02	4.77E+01
	13	295.12	1.58E+02	63.31	1.30E+01	5.93E+00	1.45E+02	6.36E+01
	14	301.37	5.30E+01	38.11			5.30E+01	3.81E+01
	15	338.32	8.49E+01	35.58			8.49E+01	3.56E+01
	16	351.98	4.10E+02	52.13	1.67E+01	5.59E+00	3.93E+02	5.24E+01
	17	400.57	3.24E+01	37.09			3.24E+01	3.71E+01
	18	410.38	4.12E+01	36.28			4.12E+01	3.63E+01
	19	454.38	2.65E+01	32.06			2.65E+01	3.21E+01
m	20	514.15	1.86E+01	24.16			1.86E+01	2.42E+01
	21	562.97	3.68E+01	30.53			3.68E+01	3.05E+01
	22	583.19	1.60E+02	36.61	7.99E+00	3.88E+00	1.52E+02	3.68E+01
	23	609.59	2.44E+02	43.77	1.77E+01	8.73E+00	2.26E+02	4.46E+01
M	24	661.86	2.53E+02	35.97	6.25E+00	3.54E+00	2.47E+02	3.61E+01
m	25	665.20	2.34E+01	30.95			2.34E+01	3.10E+01
	26	727.90	3.08E+01	21.12			3.08E+01	2.11E+01
	27	794.98	9.00E+00	12.17			9.00E+00	1.22E+01
	28	805.58	2.91E+01	25.28			2.91E+01	2.53E+01
M	29	881.51	1.78E+01	10.77			1.78E+01	1.08E+01
m	30	887.32	1.08E+01	13.86			1.08E+01	1.39E+01
	31	911.61	1.02E+02	31.06	3.66E+00	2.67E+00	9.87E+01	3.12E+01
	32	934.13	2.90E+01	24.62			2.90E+01	2.46E+01
M	33	965.07	2.30E+01	26.92			2.30E+01	2.69E+01
M	34	989.69	9.75E+00	10.58			9.75E+00	1.06E+01
m	35	993.81	1.65E+01	16.85			1.65E+01	1.69E+01
	36	1004.29	1.39E+01	16.25			1.39E+01	1.62E+01
	37	1030.37	2.60E+01	20.83			2.60E+01	2.08E+01
M	38	1116.27	1.38E+01	3.74			1.38E+01	3.74E+00
m	39	1121.07	6.19E+01	18.87	5.40E+00	2.54E+00	5.65E+01	1.90E+01
	40	1237.99	3.77E+01	32.79	1.40E+00	2.38E+00	3.63E+01	3.29E+01
M	41	1312.70	9.61E+00	8.67			9.61E+00	8.67E+00
m	42	1323.26	1.05E+01	11.72			1.05E+01	1.17E+01
	43	1336.82	8.19E+00	10.63			8.19E+00	1.06E+01
	44	1361.19	3.03E+01	14.14			3.03E+01	1.41E+01
M	45	1374.72	8.73E+00	4.90			8.73E+00	4.90E+00
m	46	1378.29	1.35E+01	10.77			1.35E+01	1.08E+01
	47	1461.35	2.13E+02	33.05	1.02E+01	2.32E+00	2.03E+02	3.31E+01
	48	1498.56	1.66E+01	9.59			1.66E+01	9.59E+00
	49	1509.47	1.35E+01	9.62			1.35E+01	9.62E+00
	50	1518.67	1.04E+01	11.17			1.04E+01	1.12E+01
	51	1589.20	1.57E+01	15.39			1.57E+01	1.54E+01
	52	1650.74	6.00E+00	4.90			6.00E+00	4.90E+00
	53	1730.12	1.14E+01	14.88			1.14E+01	1.49E+01
	54	1764.79	4.90E+01	17.69	4.45E+00	2.04E+00	4.45E+01	1.78E+01
	55	1815.12	6.88E+00	9.80			6.88E+00	9.80E+00
	56	1848.77	8.00E+00	6.71			8.00E+00	6.71E+00
	57	1855.72	1.10E+01	6.63			1.10E+01	6.63E+00

Analysis Report for 1507047-12

FEEBRISID-11 087-088

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
58	2063.67	5.00E+00	4.47			5.00E+00	4.47E+00
59	2102.10	9.23E+00	7.75			9.23E+00	7.75E+00
60	2347.96	8.00E+00	5.66			8.00E+00	5.66E+00
61	2614.67	6.11E+01	16.92	6.29E+00	1.69E+00	5.48E+01	1.70E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/3/2015 9:25:39AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	13.82	1.63E+03	162.13	1.24E+03	4.65E+01	3.95E+02	1.69E+02
	2	40.95	5.43E+01	65.18			5.43E+01	6.52E+01
	3	53.74	5.66E+01	60.59			5.66E+01	6.06E+01
	4	62.73	1.46E+02	85.65			1.46E+02	8.57E+01
	5	76.41	5.47E+02	124.23			5.47E+02	1.24E+02
	6	92.80	2.10E+02	97.20	5.29E+01	8.67E+00	1.57E+02	9.76E+01
	7	154.43	4.40E+01	53.31			4.40E+01	5.33E+01
	8	185.80	1.46E+02	65.17	4.79E+01	7.81E+00	9.81E+01	6.56E+01
	9	209.08	8.12E+01	47.83			8.12E+01	4.78E+01
M	10	238.89	4.05E+02	58.17	2.21E+01	3.31E+00	3.83E+02	5.83E+01
m	11	242.04	9.18E+01	46.47	7.15E+00	2.42E+00	8.47E+01	4.65E+01
	12	269.19	1.02E+02	47.71			1.02E+02	4.77E+01
	13	295.12	1.58E+02	63.31	1.30E+01	5.93E+00	1.45E+02	6.36E+01
	14	301.37	5.30E+01	38.11			5.30E+01	3.81E+01
	15	338.32	8.49E+01	35.58			8.49E+01	3.56E+01
	16	351.98	4.10E+02	52.13	1.67E+01	5.59E+00	3.93E+02	5.24E+01
	17	400.57	3.24E+01	37.09			3.24E+01	3.71E+01
	18	410.38	4.12E+01	36.28			4.12E+01	3.63E+01
	19	454.38	2.65E+01	32.06			2.65E+01	3.21E+01
m	20	514.15	1.86E+01	24.16			1.86E+01	2.42E+01
	21	562.97	3.68E+01	30.53			3.68E+01	3.05E+01
	22	583.19	1.60E+02	36.61	7.99E+00	3.88E+00	1.52E+02	3.68E+01
	23	609.59	2.44E+02	43.77	1.77E+01	8.73E+00	2.26E+02	4.46E+01
M	24	661.86	2.53E+02	35.97	6.25E+00	3.54E+00	2.47E+02	3.61E+01

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	25	665.20	2.34E+01	30.95			2.34E+01	3.10E+01
	26	727.90	3.08E+01	21.12			3.08E+01	2.11E+01
	27	794.98	9.00E+00	12.17			9.00E+00	1.22E+01
	28	805.58	2.91E+01	25.28			2.91E+01	2.53E+01
M	29	881.51	1.78E+01	10.77			1.78E+01	1.08E+01
m	30	887.32	1.08E+01	13.86			1.08E+01	1.39E+01
	31	911.61	1.02E+02	31.06	3.66E+00	2.67E+00	9.87E+01	3.12E+01
	32	934.13	2.90E+01	24.62			2.90E+01	2.46E+01
M	33	965.07	2.30E+01	26.92			2.30E+01	2.69E+01
M	34	989.69	9.75E+00	10.58			9.75E+00	1.06E+01
m	35	993.81	1.65E+01	16.85			1.65E+01	1.69E+01
	36	1004.29	1.39E+01	16.25			1.39E+01	1.62E+01
	37	1030.37	2.60E+01	20.83			2.60E+01	2.08E+01
M	38	1116.27	1.38E+01	3.74			1.38E+01	3.74E+00
m	39	1121.07	6.19E+01	18.87	5.40E+00	2.54E+00	5.65E+01	1.90E+01
	40	1237.99	3.77E+01	32.79	1.40E+00	2.38E+00	3.63E+01	3.29E+01
M	41	1312.70	9.61E+00	8.67			9.61E+00	8.67E+00
m	42	1323.26	1.05E+01	11.72			1.05E+01	1.17E+01
	43	1336.82	8.19E+00	10.63			8.19E+00	1.06E+01
	44	1361.19	3.03E+01	14.14			3.03E+01	1.41E+01
M	45	1374.72	8.73E+00	4.90			8.73E+00	4.90E+00
m	46	1378.29	1.35E+01	10.77			1.35E+01	1.08E+01
	47	1461.35	2.13E+02	33.05	1.02E+01	2.32E+00	2.03E+02	3.31E+01
	48	1498.56	1.66E+01	9.59			1.66E+01	9.59E+00
	49	1509.47	1.35E+01	9.62			1.35E+01	9.62E+00
	50	1518.67	1.04E+01	11.17			1.04E+01	1.12E+01
	51	1589.20	1.57E+01	15.39			1.57E+01	1.54E+01
	52	1650.74	6.00E+00	4.90			6.00E+00	4.90E+00
	53	1730.12	1.14E+01	14.88			1.14E+01	1.49E+01
	54	1764.79	4.90E+01	17.69	4.45E+00	2.04E+00	4.45E+01	1.78E+01
	55	1815.12	6.88E+00	9.80			6.88E+00	9.80E+00
	56	1848.77	8.00E+00	6.71			8.00E+00	6.71E+00
	57	1855.72	1.10E+01	6.63			1.10E+01	6.63E+00
	58	2063.67	5.00E+00	4.47			5.00E+00	4.47E+00
	59	2102.10	9.23E+00	7.75			9.23E+00	7.75E+00
	60	2347.96	8.00E+00	5.66			8.00E+00	5.66E+00
	61	2614.67	6.11E+01	16.92	6.29E+00	1.69E+00	5.48E+01	1.70E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1507047-12

FEEBRISID-11 087-088

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.954	1460.81	*	10.67	5.27E+00	1.02E+00
ZN-65	0.914	1115.52	*	50.75	6.73E-02	1.91E-02
GA-67	0.365	93.31	*	35.70	1.81E+02	7.89E+02
		208.95	*	2.24	2.17E+03	9.17E+03
		300.22		16.00		
KR-85	0.996	513.99	*	0.43	5.29E+00	6.89E+00
SR-85	0.995	513.99	*	99.27	3.24E-02	4.22E-02
CS-135	0.864	268.24	*	16.00	4.99E-01	2.38E-01
CS-137	0.993	661.65	*	85.12	4.32E-01	7.32E-02
PM-146	0.400	453.90	*	39.94	7.53E-02	9.14E-02
		735.90		14.01		
		747.13		13.10		
TL-208	0.893	583.14	*	30.22	6.76E-01	1.74E-01
		860.37		4.48		
		2614.66	*	35.85	4.87E-01	1.56E-01
BI-212	0.698	727.17	*	11.80	4.17E-01	2.88E-01
		1620.62		2.75		
PB-212	0.884	238.63	*	44.60	6.21E-01	1.10E-01
		300.09		3.41		
BI-214	0.901	609.31	*	46.30	6.81E-01	1.47E-01
		1120.29	*	15.10	8.47E-01	2.94E-01
		1764.49	*	15.80	8.70E-01	3.55E-01
		2204.22		4.98		
PB-214	0.999	295.21	*	19.19	6.29E-01	2.83E-01
		351.92	*	37.19	9.95E-01	1.59E-01
RA-225	0.845	40.00	*	31.00	1.14E+00	1.38E+00
RA-226	0.974	186.21	*	3.28	1.83E+00	3.57E+00
AC-228	0.548	338.32	*	11.40	6.82E-01	2.92E-01
		911.07	*	27.70	6.82E-01	2.24E-01
		969.11		16.60		
TH-234	0.952	63.29	*	3.80	2.11E+00	1.25E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 9:25:39AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.82	1.09809E-01	21.33		
	3	53.74	1.57321E-02	53.50		
	5	76.41	1.52012E-01	11.35		
	7	154.43	1.22348E-02	60.52		
m	11	242.04	2.35233E-02	27.47		
	14	301.37	1.47190E-02	35.96	Sum	
	17	400.57	9.00939E-03	57.18	Sum	
	18	410.38	1.14538E-02	43.99	Tol.	HO-166M
	21	562.97	1.02228E-02	41.48	Tol.	CS-134
m	25	665.20	6.49220E-03	66.22		
	27	794.98	2.50000E-03	67.59	Sum	
	28	805.58	8.08081E-03	43.45	Sum	
M	29	881.51	4.93241E-03	30.33		
m	30	887.32	3.00454E-03	64.05		
	32	934.13	8.05556E-03	42.44		
M	33	965.07	6.38065E-03	58.60		
M	34	989.69	2.70928E-03	54.25		
m	35	993.81	4.57897E-03	51.12		
	36	1004.29	3.84722E-03	58.66	Sum	
	37	1030.37	7.22222E-03	40.06		
	40	1237.99	1.00709E-02	45.34		
M	41	1312.70	2.66966E-03	45.13		
m	42	1323.26	2.91216E-03	55.87	Sum	
	43	1336.82	2.27431E-03	64.92	Sum	
	44	1361.19	8.42729E-03	23.31		
M	45	1374.72	2.42552E-03	28.05		
m	46	1378.29	3.74175E-03	39.98		
	48	1498.56	4.60526E-03	28.93		
	49	1509.47	3.75000E-03	35.62		
	50	1518.67	2.88194E-03	53.83		
	51	1589.20	4.37004E-03	48.93		
	52	1650.74	1.66667E-03	40.82		
	53	1730.12	3.17778E-03	65.05	Sum	
	55	1815.12	1.90972E-03	71.26		
	56	1848.77	2.22222E-03	41.93	Sum	
	57	1855.72	3.05556E-03	30.15		
	58	2063.67	1.38889E-03	44.72		
	59	2102.10	2.56313E-03	41.97		
	60	2347.96	2.22222E-03	35.36	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507047-12

FEEBRISID-11 087-088

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.95	1460.81	*	10.67	5.27E+00	1.02E+00
ZN-65	0.91	1115.52	*	50.75	6.73E-02	1.91E-02
GA-67	0.36	93.31	*	35.70	1.81E+02	7.89E+02
		208.95	*	2.24	2.17E+03	9.17E+03
		300.22		16.00		
KR-85	0.99	513.99	*	0.43	5.29E+00	6.89E+00
SR-85	0.99	513.99	*	99.27	3.24E-02	4.22E-02
CS-135	0.86	268.24	*	16.00	4.99E-01	2.38E-01
CS-137	0.99	661.65	*	85.12	4.32E-01	7.32E-02
PM-146	0.40	453.90	*	39.94	7.53E-02	9.14E-02
		735.90		14.01		
		747.13		13.10		
TL-208	0.89	583.14	*	30.22	6.76E-01	1.74E-01
		860.37		4.48		
		2614.66	*	35.85	4.87E-01	1.56E-01
BI-212	0.69	727.17	*	11.80	4.17E-01	2.88E-01
		1620.62		2.75		
PB-212	0.88	238.63	*	44.60	6.21E-01	1.10E-01
		300.09		3.41		
BI-214	0.90	609.31	*	46.30	6.81E-01	1.47E-01
		1120.29	*	15.10	8.47E-01	2.94E-01
		1764.49	*	15.80	8.70E-01	3.55E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	6.29E-01	2.83E-01
		351.92	*	37.19	9.95E-01	1.59E-01
RA-225	0.84	40.00	*	31.00	1.14E+00	1.38E+00
RA-226	0.97	186.21	*	3.28	1.83E+00	3.57E+00
AC-228	0.54	338.32	*	11.40	6.82E-01	2.92E-01
		911.07	*	27.70	6.82E-01	2.24E-01
		969.11		16.60		
TH-234	0.95	63.29	*	3.80	2.11E+00	1.25E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1507047-12

FEEBRISID-11 087-088

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.954	5.27E+00	1.02E+00	
	ZN-65	0.914	6.73E-02	1.91E-02	
	GA-67	0.365	2.43E+02	1.04E+03	
?	KR-85	0.996	5.29E+00	6.89E+00	
?	SR-85	0.995	3.24E-02	4.22E-02	
	CS-135	0.864	4.99E-01	2.38E-01	
	CS-137	0.993	4.32E-01	7.32E-02	
	PM-146	0.400	7.53E-02	9.14E-02	
	TL-208	0.893	5.71E-01	1.16E-01	
	BI-212	0.698	4.17E-01	2.88E-01	
	PB-212	0.884	6.21E-01	1.10E-01	
	BI-214	0.901	7.33E-01	1.23E-01	
	PB-214	0.999	9.07E-01	1.39E-01	
	RA-225	0.845	1.14E+00	1.38E+00	
	RA-226	0.974	1.83E+00	3.57E+00	
	AC-228	0.548	6.82E-01	1.78E-01	
	TH-234	0.952	2.11E+00	1.25E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507047-12

FEEBRISID-11 087-088

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/3/2015 9:25:39AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.82	1.09809E-01	21.33		
	3	53.74	1.57321E-02	53.50		
	5	76.41	1.52012E-01	11.35		
	7	154.43	1.22348E-02	60.52		
m	11	242.04	2.35233E-02	27.47		
	14	301.37	1.47190E-02	35.96	Sum	
	17	400.57	9.00939E-03	57.18	Sum	
	18	410.38	1.14538E-02	43.99	Tol.	HO-166M
	21	562.97	1.02228E-02	41.48	Tol.	CS-134
m	25	665.20	6.49220E-03	66.22		
	27	794.98	2.50000E-03	67.59	Sum	
	28	805.58	8.08081E-03	43.45	Sum	
M	29	881.51	4.93241E-03	30.33		
m	30	887.32	3.00454E-03	64.05		
	32	934.13	8.05556E-03	42.44		
M	33	965.07	6.38065E-03	58.60		
M	34	989.69	2.70928E-03	54.25		
m	35	993.81	4.57897E-03	51.12		
	36	1004.29	3.84722E-03	58.66	Sum	
	37	1030.37	7.22222E-03	40.06		
	40	1237.99	1.00709E-02	45.34		
M	41	1312.70	2.66966E-03	45.13		
m	42	1323.26	2.91216E-03	55.87	Sum	
	43	1336.82	2.27431E-03	64.92	Sum	
	44	1361.19	8.42729E-03	23.31		
M	45	1374.72	2.42552E-03	28.05		
m	46	1378.29	3.74175E-03	39.98		
	48	1498.56	4.60526E-03	28.93		
	49	1509.47	3.75000E-03	35.62		
	50	1518.67	2.88194E-03	53.83		
	51	1589.20	4.37004E-03	48.93		
	52	1650.74	1.66667E-03	40.82		
	53	1730.12	3.17778E-03	65.05	Sum	
	55	1815.12	1.90972E-03	71.26		
	56	1848.77	2.22222E-03	41.93	Sum	

Analysis Report for 1507047-12

FEEBRISID-11 087-088

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
57	1855.72	3.05556E-03	30.15		
58	2063.67	1.38889E-03	44.72		
59	2102.10	2.56313E-03	41.97		
60	2347.96	2.22222E-03	35.36	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	3.97E-01	7.05E-01	7.05E-01
+	NA-22	1274.54		99.94	-5.64E-02	5.47E-02	5.47E-02
+	NA-24	1368.53		99.99	-7.15E+12	7.81E+13	1.25E+14
		2754.09		99.86	-1.12E+13		7.81E+13
+	AL-26	1808.65		99.76	5.79E-04	6.09E-02	6.09E-02
+	K-40	1460.81	*	10.67	5.27E+00	7.88E-01	7.88E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	6.24E-03	4.05E-02	4.05E-02
		78.34		96.00	1.41E-01		5.44E-02
+	SC-46	889.25		99.98	-5.59E-03	6.68E-02	6.68E-02
		1120.51		99.99	1.34E-01		1.25E-01
+	V-48	983.52		99.98	-4.09E-04	2.16E-01	2.16E-01
		1312.10		97.50	-2.64E-02		2.19E-01
+	CR-51	320.08		9.83	7.78E-01	1.07E+00	1.07E+00
+	MN-54	834.83		99.97	-4.18E-02	6.15E-02	6.15E-02
+	CO-56	846.75		99.96	-2.94E-02	6.43E-02	6.43E-02
		1037.75		14.03	-1.94E-02		4.93E-01
		1238.25		67.00	1.13E-01		1.80E-01
		1771.40		15.51	3.96E-02		3.73E-01
		2598.48		16.90	5.01E-02		2.33E-01
+	CO-57	122.06		85.51	2.64E-02	4.82E-02	4.82E-02
		136.48		10.60	-3.42E-01		3.85E-01
+	CO-58	810.76		99.40	-8.66E-04	7.34E-02	7.34E-02
+	FE-59	1099.22		56.50	-5.11E-02	1.69E-01	1.69E-01
		1291.56		43.20	-1.40E-01		1.81E-01

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CO-60	1173.22		100.00	-1.54E-02	5.10E-02	6.17E-02
		1332.49		100.00	-1.68E-02		5.10E-02
+	ZN-65	1115.52	*	50.75	6.73E-02	1.19E-01	1.19E-01
+	GA-67	93.31	*	35.70	1.81E+02	1.82E+02	1.82E+02
		208.95	*	2.24	2.17E+03		2.02E+03
		300.22		16.00	3.27E+01		2.88E+02
+	SE-75	121.11		16.70	-3.07E-01	7.79E-02	2.62E-01
		136.00		59.20	-9.57E-03		7.79E-02
		264.65		59.80	1.60E-03		8.57E-02
		279.53		25.20	9.89E-02		2.32E-01
		400.65		11.40	2.66E-01		5.27E-01
+	RB-82	776.52		13.00	-3.89E-01	8.83E-01	8.83E-01
+	RB-83	520.41		46.00	-3.64E-02	1.21E-01	1.21E-01
		529.64		30.30	-3.21E-02		1.98E-01
		552.65		16.40	8.26E-02		3.64E-01
+	KR-85	513.99	*	0.43	5.29E+00	2.49E+01	2.49E+01
+	SR-85	513.99	*	99.27	3.24E-02	1.53E-01	1.53E-01
+	Y-88	898.02		93.40	2.32E-02	4.19E-02	7.44E-02
		1836.01		99.38	-3.24E-02		4.19E-02
+	NB-93M	16.57		9.43	-1.54E+03	5.17E+03	5.17E+03
+	NB-94	702.63		100.00	-4.02E-02	5.27E-02	5.27E-02
		871.10		100.00	2.04E-02		6.19E-02
+	NB-95	765.79		99.81	6.01E-02	1.24E-01	1.24E-01
+	NB-95M	235.69		25.00	-6.67E+02	1.12E+02	1.12E+02
+	ZR-95	724.18		43.70	-1.20E-02	1.37E-01	1.98E-01
		756.72		55.30	-3.19E-02		1.37E-01
+	MO-99	181.06		6.20	7.01E+02	1.27E+03	2.30E+03
		739.58		12.80	-8.65E+01		1.27E+03
		778.00		4.50	-1.92E+03		3.28E+03
+	RU-103	497.08		89.00	1.81E-03	8.51E-02	8.51E-02
+	RU-106	621.84		9.80	1.47E-02	6.34E-01	6.34E-01
+	AG-108M	433.93		89.90	1.29E-02	5.40E-02	5.40E-02
		614.37		90.40	-4.05E-03		6.46E-02
		722.95		90.50	2.38E-02		6.31E-02
+	CD-109	88.03		3.72	5.45E-01	1.37E+00	1.37E+00
+	AG-110M	657.75		93.14	2.47E-04	9.06E-02	1.00E-01
		677.61		10.53	1.72E-01		5.74E-01
		706.67		16.46	7.46E-02		3.95E-01
		763.93		21.98	-2.12E-01		2.91E-01
		884.67		71.63	2.31E-02		9.06E-02
		1384.27		23.94	-5.06E-02		2.29E-01
+	CD-113M	263.70		0.02	-6.23E+01	1.75E+02	1.75E+02
+	SN-113	255.12		1.93	-5.77E-01	7.93E-02	2.73E+00
		391.69		64.90	-6.09E-02		7.93E-02
+	TE123M	159.00		84.10	-4.68E-03	5.75E-02	5.75E-02
+	SB-124	602.71		97.87	1.09E-02	8.38E-02	8.38E-02
		645.85		7.26	-3.04E-01		1.02E+00
		722.78		11.10	2.81E-01		7.44E-01

Analysis Report for 1507047-12

FEEBRISID-11 087-088

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		SB-124	1691.02		49.00	-3.57E-02	8.38E-02	1.55E-01
+		I-125	35.49		6.49	1.55E+00	4.63E+00	4.63E+00
+		SB-125	176.33		6.89	-1.09E-01	1.65E-01	6.03E-01
			427.89		29.33	-2.65E-02		1.65E-01
			463.38		10.35	2.16E-01		5.05E-01
			600.56		17.80	1.11E-01		3.34E-01
			635.90		11.32	-2.28E-01		5.07E-01
+		SB-126	414.70		83.30	-5.82E-02	3.01E-01	3.01E-01
			666.33		99.60	-1.56E+00		4.23E-01
			695.00		99.60	9.79E-02		3.48E-01
			720.50		53.80	-6.64E-02		5.80E-01
+		SN-126	87.57		37.00	5.22E-02	1.31E-01	1.31E-01
+		SB-127	473.00		25.00	-8.36E+00	5.29E+01	5.91E+01
			685.20		35.70	2.65E+01		5.29E+01
			783.80		14.70	4.61E+01		1.26E+02
+		I-129	29.78		57.00	-8.15E-01	9.58E-01	9.58E-01
			33.60		13.20	-1.45E+00		2.03E+00
			39.58		7.52	-8.09E-01		1.79E+00
+		I-131	284.30		6.05	-4.96E-02	8.90E-01	1.20E+01
			364.48		81.20	4.75E-01		8.90E-01
			636.97		7.26	-6.82E-01		1.24E+01
			722.89		1.80	1.89E+01		5.02E+01
+		TE-132	49.72		13.10	2.92E+02	4.51E+01	4.70E+02
			228.16		88.00	-4.51E+01		4.51E+01
+		BA-133	81.00		33.00	-1.14E-02	6.75E-02	1.03E-01
			302.84		17.80	7.89E-02		2.66E-01
			356.01		60.00	8.07E-03		6.75E-02
+		I-133	529.87		86.30	3.42E+09	7.71E+09	7.71E+09
+		XE-133	81.00		38.00	-6.83E-01	6.12E+00	6.12E+00
+		CS-134	563.23		8.38	3.64E-01	6.16E-02	6.63E-01
			569.32		15.43	4.59E-02		3.29E-01
			604.70		97.60	2.74E-03		6.16E-02
			795.84		85.40	-7.24E-03		6.33E-02
			801.93		8.73	-2.12E-01		6.76E-01
+		CS-135	268.24	*	16.00	4.99E-01	3.62E-01	3.62E-01
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	6.68E-01	2.95E-01	3.11E+00
			163.89		4.61	1.73E+00		4.90E+00
			176.55		13.56	-4.01E-01		1.61E+00
			273.65		12.66	-1.42E-01		1.73E+00
			340.57		48.50	-3.60E-02		5.30E-01
			818.50		99.70	-1.85E-02		2.95E-01
			1048.07		79.60	2.20E-01		3.92E-01
			1235.34		19.70	5.84E-01		2.41E+00
+		CS-137	661.65	*	85.12	4.32E-01	9.12E-02	9.12E-02
+		LA-138	788.74		34.00	7.01E-02	7.21E-02	1.65E-01
			1435.80		66.00	-2.07E-03		7.21E-02

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CE-139	165.85		80.35	4.72E-02	6.17E-02	6.17E-02
+	BA-140	162.64		6.70	4.50E-01	9.97E-01	3.54E+00
		304.84		4.50	1.29E+00		5.35E+00
		423.70		3.20	2.84E+00		8.85E+00
		437.55		2.00	1.70E+00		1.34E+01
		537.32		25.00	-2.48E-01		9.97E-01
+	LA-140	328.77		20.50	4.89E-01	3.39E-01	1.28E+00
		487.03		45.50	2.59E-02		5.25E-01
		815.85		23.50	2.75E-01		1.33E+00
		1596.49		95.49	-5.12E-02		3.39E-01
+	CE-141	145.44		48.40	2.84E-02	1.73E-01	1.73E-01
+	CE-143	57.36		11.80	-4.67E+05	1.60E+06	3.69E+06
		293.26		42.00	8.14E+05		1.60E+06
		664.55		5.20	6.49E+07		2.43E+07
+	CE-144	133.54		10.80	-4.56E-02	3.83E-01	3.83E-01
+	PM-144	476.78		42.00	6.90E-02	6.08E-02	1.23E-01
		618.01		98.60	6.89E-03		6.15E-02
		696.49		99.49	7.79E-03		6.08E-02
+	PM-145	36.85		21.70	1.61E-01	4.14E-01	8.05E-01
		37.36		39.70	8.28E-02		4.14E-01
		42.30		15.10	-5.22E-02		7.24E-01
		72.40		2.31	-5.22E-01		1.65E+00
+	PM-146	453.90	*	39.94	7.53E-02	1.50E-01	1.50E-01
		735.90		14.01	1.27E-01		4.06E-01
		747.13		13.10	-2.52E-02		3.71E-01
+	ND-147	91.11		28.90	-7.00E-01	1.34E+00	1.34E+00
		531.02		13.10	1.09E+00		2.81E+00
+	PM-149	285.90		3.10	8.72E+03	3.23E+04	3.23E+04
+	EU-152	121.78		20.50	1.02E-01	1.86E-01	1.86E-01
		244.69		5.40	2.49E-02		8.83E-01
		344.27		19.13	2.17E-01		2.43E-01
		778.89		9.20	5.70E-02		5.27E-01
		964.01		10.40	-9.35E-01		7.32E-01
		1085.78		7.22	-7.40E-02		7.53E-01
		1112.02		9.60	-2.33E-01		5.41E-01
		1407.95		14.94	-2.65E-02		3.64E-01
+	GD-153	97.43		31.30	8.27E-02	1.28E-01	1.28E-01
		103.18		22.20	-2.38E-01		1.82E-01
+	EU-154	123.07		40.50	-7.25E-03	9.26E-02	9.26E-02
		723.30		19.70	1.10E-01		2.92E-01
		873.19		11.50	1.47E-01		5.32E-01
		996.32		10.30	1.86E-01		5.92E-01
		1004.76		17.90	1.14E-01		3.29E-01
		1274.45		35.50	-1.56E-01		1.51E-01
+	EU-155	86.50		30.90	6.56E-02	1.56E-01	1.56E-01
		105.30		20.70	2.27E-02		1.89E-01
+	EU-156	811.77		10.40	3.44E-01	1.98E+00	1.98E+00
		1153.47		7.20	6.29E-01		3.97E+00
		1230.71		8.90	-1.01E-01		3.07E+00

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	HO-166M	184.41		72.60	2.67E-02	7.74E-02	7.74E-02
		280.45		29.60	7.01E-02		1.65E-01
		410.94		11.10	4.67E-01		4.65E-01
		711.69		54.10	2.87E-02		1.14E-01
+	TM-171	66.72		0.14	1.49E+01	2.81E+01	2.81E+01
+	HF-172	81.75		4.52	-5.91E-01	3.65E-01	7.72E-01
		125.81		11.30	5.72E-02		3.65E-01
+	LU-172	181.53		20.60	1.92E+00	2.84E+00	6.28E+00
		810.06		16.63	-1.04E-01		8.82E+00
		912.12		15.25	3.76E+01		1.95E+01
		1093.66		62.50	6.42E-01		2.84E+00
+	LU-173	100.72		5.24	3.05E-01	2.36E-01	7.64E-01
		272.11		21.20	1.37E-02		2.36E-01
+	HF-175	343.40		84.00	6.27E-03	7.31E-02	7.31E-02
+	LU-176	88.34		13.30	1.45E-01	4.36E-02	3.64E-01
		201.83		86.00	-6.28E-03		5.15E-02
		306.78		94.00	9.46E-03		4.36E-02
+	TA-182	67.75		41.20	1.74E-02	1.13E-01	1.13E-01
		1121.30		34.90	3.77E-01		3.35E-01
		1189.05		16.23	1.34E-01		5.30E-01
		1221.41		26.98	-2.96E-02		2.98E-01
		1231.02		11.44	-8.41E-02		6.96E-01
+	IR-192	308.46		29.68	-5.36E-02	1.36E-01	1.85E-01
		468.07		48.10	-4.94E-02		1.36E-01
+	HG-203	279.19		77.30	-1.73E-02	9.83E-02	9.83E-02
+	BI-207	569.67		97.72	7.05E-03	5.05E-02	5.05E-02
		1063.62		74.90	-3.63E-02		6.36E-02
+	TL-208	583.14	*	30.22	6.76E-01	1.46E-01	2.13E-01
		860.37		4.48	5.47E-01		1.45E+00
		2614.66	*	35.85	4.87E-01		1.46E-01
+	BI-210M	262.00		45.00	-6.01E-03	9.07E-02	9.07E-02
		300.00		23.00	2.50E-02		2.20E-01
+	PB-210	46.50		4.25	1.96E+00	2.08E+00	2.08E+00
+	PB-211	404.84		2.90	3.38E-01	1.47E+00	1.47E+00
		831.96		2.90	8.90E-01		1.99E+00
+	BI-212	727.17	*	11.80	4.17E-01	4.37E-01	4.37E-01
		1620.62		2.75	1.74E+00		2.47E+00
+	PB-212	238.63	*	44.60	6.21E-01	2.03E-01	2.03E-01
		300.09		3.41	1.69E-01		1.49E+00
+	BI-214	609.31	*	46.30	6.81E-01	1.71E-01	1.71E-01
		1120.29	*	15.10	8.47E-01		4.15E-01
		1764.49	*	15.80	8.70E-01		4.32E-01
		2204.22		4.98	9.23E-01		1.44E+00
+	PB-214	295.21	*	19.19	6.29E-01	1.50E-01	4.33E-01
		351.92	*	37.19	9.95E-01		1.50E-01
+	RN-219	401.80		6.50	3.91E-01	7.55E-01	7.55E-01
+	RA-223	323.87		3.88	4.31E-01	1.20E+00	1.20E+00
+	RA-224	240.98		3.95	6.10E+00	2.16E+00	2.16E+00

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-225	40.00	*	31.00	1.14E+00	2.24E+00	2.24E+00
+	RA-226	186.21	*	3.28	1.83E+00	1.97E+00	1.97E+00
+	TH-227	50.10		8.40	4.91E-01	5.18E-01	7.89E-01
		236.00		11.50	-3.09E+00		5.18E-01
		256.20		6.30	-1.46E-02		6.93E-01
+	AC-228	338.32	*	11.40	6.82E-01	2.92E-01	4.24E-01
		911.07	*	27.70	6.82E-01		2.92E-01
		969.11		16.60	3.34E-01		5.41E-01
+	TH-230	48.44		16.90	-4.88E-01	4.19E-01	4.19E-01
		62.85		4.60	1.25E+00		1.06E+00
		67.67		0.37	1.59E+00		1.03E+01
+	PA-231	283.67		1.60	-1.18E-02	2.04E+00	2.86E+00
		302.67		2.30	6.07E-01		2.04E+00
+	TH-231	25.64		14.70	8.08E+00	5.79E-01	1.30E+01
		84.21		6.40	5.77E-01		5.79E-01
+	PA-233	311.98		38.60	-5.08E-02	2.48E-01	2.48E-01
+	PA-234	131.20		20.40	-9.27E-02	1.96E-01	1.96E-01
		733.99		8.80	1.55E-01		6.45E-01
		946.00		12.00	1.61E-01		5.04E-01
+	PA-234M	1001.03		0.92	2.01E+00	6.88E+00	6.88E+00
+	TH-234	63.29	*	3.80	2.11E+00	1.99E+00	1.99E+00
+	U-235	143.76		10.50	3.62E-03	3.89E-01	3.89E-01
		163.35		4.70	1.13E-01		8.91E-01
		205.31		4.70	1.94E-01		9.57E-01
+	NP-237	86.50		12.60	1.59E-01	3.77E-01	3.77E-01
+	NP-239	106.10		22.70	4.31E+02	2.13E+03	2.13E+03
		228.18		10.70	-5.07E+03		5.07E+03
		277.60		14.10	1.23E+03		4.10E+03
+	AM-241	59.54		35.90	-4.02E-04	1.21E-01	1.21E-01
+	AM-243	74.67		66.00	-1.10E-01	7.46E-02	7.46E-02
+	CM-243	209.75		3.29	9.68E-01	3.32E-01	1.48E+00
		228.14		10.60	-4.11E-01		4.12E-01
		277.60		14.00	9.98E-02		3.32E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1507047-12

FEEBRISID-11 087-088

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	7.05E-01	7.05E-01	3.97E-01	3.30E-01
	NA-22	1274.54		99.94	5.47E-02	5.47E-02	-5.64E-02	2.39E-02
	NA-24	1368.53		99.99	1.25E+14	7.81E+13	-7.15E+12	5.26E+13
		2754.09		99.86	7.81E+13		-1.12E+13	2.77E+13
	AL-26	1808.65		99.76	6.09E-02	6.09E-02	5.79E-04	2.62E-02
+	K-40	1460.81	*	10.67	7.88E-01	7.88E-01	5.27E+00	3.59E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.05E-02	4.05E-02	6.24E-03	1.95E-02
		78.34		96.00	5.44E-02		1.41E-01	2.66E-02
	SC-46	889.25		99.98	6.68E-02	6.68E-02	-5.59E-03	3.01E-02
		1120.51		99.99	1.25E-01		1.34E-01	5.87E-02
	V-48	983.52		99.98	2.16E-01	2.16E-01	-4.09E-04	9.71E-02
		1312.10		97.50	2.19E-01		-2.64E-02	9.50E-02
	CR-51	320.08		9.83	1.07E+00	1.07E+00	7.78E-01	5.10E-01
	MN-54	834.83		99.97	6.15E-02	6.15E-02	-4.18E-02	2.82E-02
	CO-56	846.75		99.96	6.43E-02	6.43E-02	-2.94E-02	2.89E-02
		1037.75		14.03	4.93E-01		-1.94E-02	2.19E-01
		1238.25		67.00	1.80E-01		1.13E-01	8.36E-02
		1771.40		15.51	3.73E-01		3.96E-02	1.51E-01
		2598.48		16.90	2.33E-01		5.01E-02	8.25E-02
	CO-57	122.06		85.51	4.82E-02	4.82E-02	2.64E-02	2.33E-02
		136.48		10.60	3.85E-01		-3.42E-01	1.85E-01
	CO-58	810.76		99.40	7.34E-02	7.34E-02	-8.66E-04	3.35E-02
	FE-59	1099.22		56.50	1.69E-01	1.69E-01	-5.11E-02	7.55E-02
		1291.56		43.20	1.81E-01		-1.40E-01	7.76E-02
	CO-60	1173.22		100.00	6.17E-02	5.10E-02	-1.54E-02	2.76E-02
		1332.49		100.00	5.10E-02		-1.68E-02	2.20E-02
+	ZN-65	1115.52	*	50.75	1.19E-01	1.19E-01	6.73E-02	5.28E-02
+	GA-67	93.31	*	35.70	1.82E+02	1.82E+02	1.81E+02	8.94E+01
		208.95	*	2.24	2.02E+03		2.17E+03	9.76E+02
		300.22		16.00	2.88E+02		3.27E+01	1.37E+02
	SE-75	121.11		16.70	2.62E-01	7.79E-02	-3.07E-01	1.26E-01
		136.00		59.20	7.79E-02		-9.57E-03	3.75E-02
		264.65		59.80	8.57E-02		1.60E-03	4.07E-02
		279.53		25.20	2.32E-01		9.89E-02	1.11E-01
		400.65		11.40	5.27E-01		2.66E-01	2.49E-01
	RB-82	776.52		13.00	8.83E-01	8.83E-01	-3.89E-01	4.00E-01
	RB-83	520.41		46.00	1.21E-01	1.21E-01	-3.64E-02	5.56E-02
		529.64		30.30	1.98E-01		-3.21E-02	9.16E-02
		552.65		16.40	3.64E-01		8.26E-02	1.68E-01
+	KR-85	513.99	*	0.43	2.49E+01	2.49E+01	5.29E+00	1.21E+01
+	SR-85	513.99	*	99.27	1.53E-01	1.53E-01	3.24E-02	7.39E-02
	Y-88	898.02		93.40	7.44E-02	4.19E-02	2.32E-02	3.38E-02
		1836.01		99.38	4.19E-02		-3.24E-02	1.57E-02
	NB-93M	16.57		9.43	5.17E+03	5.17E+03	-1.54E+03	2.51E+03

Analysis Report for 1507047-12

FEEBRISID-11 087-088

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
NB-94	702.63	100.00	5.27E-02	5.27E-02	-4.02E-02	2.43E-02
	871.10	100.00	6.19E-02		2.04E-02	2.85E-02
NB-95	765.79	99.81	1.24E-01	1.24E-01	6.01E-02	5.80E-02
NB-95M	235.69	25.00	1.12E+02	1.12E+02	-6.67E+02	5.41E+01
ZR-95	724.18	43.70	1.98E-01	1.37E-01	-1.20E-02	9.21E-02
	756.72	55.30	1.37E-01		-3.19E-02	6.28E-02
MO-99	181.06	6.20	2.30E+03	1.27E+03	7.01E+02	1.11E+03
	739.58	12.80	1.27E+03		-8.65E+01	5.82E+02
	778.00	4.50	3.28E+03		-1.92E+03	1.48E+03
RU-103	497.08	89.00	8.51E-02	8.51E-02	1.81E-03	3.93E-02
RU-106	621.84	9.80	6.34E-01	6.34E-01	1.47E-02	2.96E-01
AG-108M	433.93	89.90	5.40E-02	5.40E-02	1.29E-02	2.53E-02
	614.37	90.40	6.46E-02		-4.05E-03	3.02E-02
	722.95	90.50	6.31E-02		2.38E-02	2.92E-02
CD-109	88.03	3.72	1.37E+00	1.37E+00	5.45E-01	6.66E-01
AG-110M	657.75	93.14	1.00E-01	9.06E-02	2.47E-04	4.79E-02
	677.61	10.53	5.74E-01		1.72E-01	2.66E-01
	706.67	16.46	3.95E-01		7.46E-02	1.84E-01
	763.93	21.98	2.91E-01		-2.12E-01	1.34E-01
	884.67	71.63	9.06E-02		2.31E-02	4.14E-02
	1384.27	23.94	2.29E-01		-5.06E-02	9.79E-02
CD-113M	263.70	0.02	1.75E+02	1.75E+02	-6.23E+01	8.31E+01
SN-113	255.12	1.93	2.73E+00	7.93E-02	-5.77E-01	1.30E+00
	391.69	64.90	7.93E-02		-6.09E-02	3.71E-02
TE123M	159.00	84.10	5.75E-02	5.75E-02	-4.68E-03	2.77E-02
SB-124	602.71	97.87	8.38E-02	8.38E-02	1.09E-02	3.92E-02
	645.85	7.26	1.02E+00		-3.04E-01	4.72E-01
	722.78	11.10	7.44E-01		2.81E-01	3.44E-01
	1691.02	49.00	1.55E-01		-3.57E-02	6.56E-02
I-125	35.49	6.49	4.63E+00	4.63E+00	1.55E+00	2.23E+00
SB-125	176.33	6.89	6.03E-01	1.65E-01	-1.09E-01	2.90E-01
	427.89	29.33	1.65E-01		-2.65E-02	7.76E-02
	463.38	10.35	5.05E-01		2.16E-01	2.37E-01
	600.56	17.80	3.34E-01		1.11E-01	1.56E-01
	635.90	11.32	5.07E-01		-2.28E-01	2.36E-01
SB-126	414.70	83.30	3.01E-01	3.01E-01	-5.82E-02	1.40E-01
	666.33	99.60	4.23E-01		-1.56E+00	1.99E-01
	695.00	99.60	3.48E-01		9.79E-02	1.61E-01
	720.50	53.80	5.80E-01		-6.64E-02	2.66E-01
SN-126	87.57	37.00	1.31E-01	1.31E-01	5.22E-02	6.39E-02
SB-127	473.00	25.00	5.91E+01	5.29E+01	-8.36E+00	2.76E+01
	685.20	35.70	5.29E+01		2.65E+01	2.46E+01
	783.80	14.70	1.26E+02		4.61E+01	5.82E+01
I-129	29.78	57.00	9.58E-01	9.58E-01	-8.15E-01	4.61E-01
	33.60	13.20	2.03E+00		-1.45E+00	9.80E-01
	39.58	7.52	1.79E+00		-8.09E-01	8.66E-01
I-131	284.30	6.05	1.20E+01	8.90E-01	-4.96E-02	5.71E+00
	364.48	81.20	8.90E-01		4.75E-01	4.19E-01
	636.97	7.26	1.24E+01		-6.82E-01	5.76E+00
	722.89	1.80	5.02E+01		1.89E+01	2.32E+01
TE-132	49.72	13.10	4.70E+02	4.51E+01	2.92E+02	2.27E+02
	228.16	88.00	4.51E+01		-4.51E+01	2.16E+01
BA-133	81.00	33.00	1.03E-01	6.75E-02	-1.14E-02	4.94E-02

Analysis Report for 1507047-12

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-133	302.84		17.80	2.66E-01	6.75E-02	7.89E-02	1.26E-01
		356.01		60.00	6.75E-02		8.07E-03	3.16E-02
	I-133	529.87		86.30	7.71E+09	7.71E+09	3.42E+09	3.59E+09
	XE-133	81.00		38.00	6.12E+00	6.12E+00	-6.83E-01	2.95E+00
	CS-134	563.23		8.38	6.63E-01	6.16E-02	3.64E-01	3.10E-01
		569.32		15.43	3.29E-01		4.59E-02	1.52E-01
		604.70		97.60	6.16E-02		2.74E-03	2.88E-02
		795.84		85.40	6.33E-02		-7.24E-03	2.89E-02
		801.93		8.73	6.76E-01		-2.12E-01	3.11E-01
+	CS-135	268.24	*	16.00	3.62E-01	3.62E-01	4.99E-01	1.74E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.11E+00	2.95E-01	6.68E-01	1.50E+00
		163.89		4.61	4.90E+00		1.73E+00	2.36E+00
		176.55		13.56	1.61E+00		-4.01E-01	7.73E-01
		273.65		12.66	1.73E+00		-1.42E-01	8.18E-01
		340.57		48.50	5.30E-01		-3.60E-02	2.51E-01
		818.50		99.70	2.95E-01		-1.85E-02	1.35E-01
		1048.07		79.60	3.92E-01		2.20E-01	1.76E-01
		1235.34		19.70	2.41E+00		5.84E-01	1.11E+00
+	CS-137	661.65	*	85.12	9.12E-02	9.12E-02	4.32E-01	4.32E-02
	LA-138	788.74		34.00	1.65E-01	7.21E-02	7.01E-02	7.55E-02
		1435.80		66.00	7.21E-02		-2.07E-03	3.04E-02
	CE-139	165.85		80.35	6.17E-02	6.17E-02	4.72E-02	2.97E-02
	BA-140	162.64		6.70	3.54E+00	9.97E-01	4.50E-01	1.70E+00
		304.84		4.50	5.35E+00		1.29E+00	2.53E+00
		423.70		3.20	8.85E+00		2.84E+00	4.17E+00
		437.55		2.00	1.34E+01		1.70E+00	6.26E+00
		537.32		25.00	9.97E-01		-2.48E-01	4.59E-01
	LA-140	328.77		20.50	1.28E+00	3.39E-01	4.89E-01	6.07E-01
		487.03		45.50	5.25E-01		2.59E-02	2.42E-01
		815.85		23.50	1.33E+00		2.75E-01	6.06E-01
		1596.49		95.49	3.39E-01		-5.12E-02	1.46E-01
	CE-141	145.44		48.40	1.73E-01	1.73E-01	2.84E-02	8.36E-02
	CE-143	57.36		11.80	3.69E+06	1.60E+06	-4.67E+05	1.77E+06
		293.26		42.00	1.60E+06		8.14E+05	7.74E+05
		664.55		5.20	2.43E+07		6.49E+07	1.18E+07
	CE-144	133.54		10.80	3.83E-01	3.83E-01	-4.56E-02	1.85E-01
	PM-144	476.78		42.00	1.23E-01	6.08E-02	6.90E-02	5.73E-02
		618.01		98.60	6.15E-02		6.89E-03	2.87E-02
		696.49		99.49	6.08E-02		7.79E-03	2.82E-02
	PM-145	36.85		21.70	8.05E-01	4.14E-01	1.61E-01	3.89E-01
		37.36		39.70	4.14E-01		8.28E-02	2.00E-01
		42.30		15.10	7.24E-01		-5.22E-02	3.50E-01
		72.40		2.31	1.65E+00		-5.22E-01	7.95E-01
+	PM-146	453.90	*	39.94	1.50E-01	1.50E-01	7.53E-02	7.11E-02
		735.90		14.01	4.06E-01		1.27E-01	1.87E-01
		747.13		13.10	3.71E-01		-2.52E-02	1.68E-01
	ND-147	91.11		28.90	1.34E+00	1.34E+00	-7.00E-01	6.53E-01
		531.02		13.10	2.81E+00		1.09E+00	1.31E+00
	PM-149	285.90		3.10	3.23E+04	3.23E+04	8.72E+03	1.54E+04
	EU-152	121.78		20.50	1.86E-01	1.86E-01	1.02E-01	8.97E-02

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	8.83E-01	1.86E-01	2.49E-02	4.23E-01
		344.27		19.13	2.43E-01		2.17E-01	1.15E-01
		778.89		9.20	5.27E-01		5.70E-02	2.38E-01
		964.01		10.40	7.32E-01		-9.35E-01	3.40E-01
		1085.78		7.22	7.53E-01		-7.40E-02	3.35E-01
		1112.02		9.60	5.41E-01		-2.33E-01	2.39E-01
		1407.95		14.94	3.64E-01		-2.65E-02	1.58E-01
	GD-153	97.43		31.30	1.28E-01	1.28E-01	8.27E-02	6.20E-02
		103.18		22.20	1.82E-01		-2.38E-01	8.79E-02
	EU-154	123.07		40.50	9.26E-02	9.26E-02	-7.25E-03	4.47E-02
		723.30		19.70	2.92E-01		1.10E-01	1.35E-01
		873.19		11.50	5.32E-01		1.47E-01	2.44E-01
		996.32		10.30	5.92E-01		1.86E-01	2.69E-01
		1004.76		17.90	3.29E-01		1.14E-01	1.49E-01
		1274.45		35.50	1.51E-01		-1.56E-01	6.61E-02
	EU-155	86.50		30.90	1.56E-01	1.56E-01	6.56E-02	7.59E-02
		105.30		20.70	1.89E-01		2.27E-02	9.13E-02
	EU-156	811.77		10.40	1.98E+00	1.98E+00	3.44E-01	8.90E-01
		1153.47		7.20	3.97E+00		6.29E-01	1.80E+00
		1230.71		8.90	3.07E+00		-1.01E-01	1.37E+00
	HO-166M	184.41		72.60	7.74E-02	7.74E-02	2.67E-02	3.76E-02
		280.45		29.60	1.65E-01		7.01E-02	7.86E-02
		410.94		11.10	4.65E-01		4.67E-01	2.19E-01
		711.69		54.10	1.14E-01		2.87E-02	5.32E-02
	TM-171	66.72		0.14	2.81E+01	2.81E+01	1.49E+01	1.35E+01
	HF-172	81.75		4.52	7.72E-01	3.65E-01	-5.91E-01	3.72E-01
		125.81		11.30	3.65E-01		5.72E-02	1.76E-01
	LU-172	181.53		20.60	6.28E+00	2.84E+00	1.92E+00	3.03E+00
		810.06		16.63	8.82E+00		-1.04E-01	4.02E+00
		912.12		15.25	1.95E+01		3.76E+01	9.27E+00
		1093.66		62.50	2.84E+00		6.42E-01	1.29E+00
	LU-173	100.72		5.24	7.64E-01	2.36E-01	3.05E-01	3.70E-01
		272.11		21.20	2.36E-01		1.37E-02	1.13E-01
	HF-175	343.40		84.00	7.31E-02	7.31E-02	6.27E-03	3.45E-02
	LU-176	88.34		13.30	3.64E-01	4.36E-02	1.45E-01	1.78E-01
		201.83		86.00	5.15E-02		-6.28E-03	2.47E-02
		306.78		94.00	4.36E-02		9.46E-03	2.06E-02
	TA-182	67.75		41.20	1.13E-01	1.13E-01	1.74E-02	5.43E-02
		1121.30		34.90	3.35E-01		3.77E-01	1.57E-01
		1189.05		16.23	5.30E-01		1.34E-01	2.41E-01
		1221.41		26.98	2.98E-01		-2.96E-02	1.34E-01
		1231.02		11.44	6.96E-01		-8.41E-02	3.13E-01
	IR-192	308.46		29.68	1.85E-01	1.36E-01	-5.36E-02	8.73E-02
		468.07		48.10	1.36E-01		-4.94E-02	6.36E-02
	HG-203	279.19		77.30	9.83E-02	9.83E-02	-1.73E-02	4.69E-02
	BI-207	569.67		97.72	5.05E-02	5.05E-02	7.05E-03	2.34E-02
		1063.62		74.90	6.36E-02		-3.63E-02	2.79E-02
+	TL-208	583.14	*	30.22	2.13E-01	1.46E-01	6.76E-01	1.00E-01
		860.37		4.48	1.45E+00		5.47E-01	6.71E-01
		2614.66	*	35.85	1.46E-01		4.87E-01	6.11E-02
	BI-210M	262.00		45.00	9.07E-02	9.07E-02	-6.01E-03	4.30E-02
		300.00		23.00	2.20E-01		2.50E-02	1.05E-01
	PB-210	46.50		4.25	2.08E+00	2.08E+00	1.96E+00	1.01E+00

Analysis Report for 1507047-12

FEEBRISID-11 087-088

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	1.47E+00	1.47E+00	3.38E-01	6.86E-01
		831.96		2.90	1.99E+00		8.90E-01	9.13E-01
+	BI-212	727.17	*	11.80	4.37E-01	4.37E-01	4.17E-01	2.00E-01
		1620.62		2.75	2.47E+00		1.74E+00	1.09E+00
+	PB-212	238.63	*	44.60	2.03E-01	2.03E-01	6.21E-01	9.93E-02
		300.09		3.41	1.49E+00		1.69E-01	7.10E-01
+	BI-214	609.31	*	46.30	1.71E-01	1.71E-01	6.81E-01	8.16E-02
		1120.29	*	15.10	4.15E-01		8.47E-01	1.87E-01
		1764.49	*	15.80	4.32E-01		8.70E-01	1.89E-01
		2204.22		4.98	1.44E+00		9.23E-01	6.33E-01
+	PB-214	295.21	*	19.19	4.33E-01	1.50E-01	6.29E-01	2.10E-01
		351.92	*	37.19	1.50E-01		9.95E-01	7.14E-02
	RN-219	401.80		6.50	7.55E-01	7.55E-01	3.91E-01	3.56E-01
	RA-223	323.87		3.88	1.20E+00	1.20E+00	4.31E-01	5.69E-01
	RA-224	240.98		3.95	2.16E+00	2.16E+00	6.10E+00	1.06E+00
+	RA-225	40.00	*	31.00	2.24E+00	2.24E+00	1.14E+00	1.09E+00
+	RA-226	186.21	*	3.28	1.97E+00	1.97E+00	1.83E+00	9.60E-01
	TH-227	50.10		8.40	7.89E-01	5.18E-01	4.91E-01	3.82E-01
		236.00		11.50	5.18E-01		-3.09E+00	2.50E-01
		256.20		6.30	6.93E-01		-1.46E-02	3.30E-01
+	AC-228	338.32	*	11.40	4.24E-01	2.92E-01	6.82E-01	2.01E-01
		911.07	*	27.70	2.92E-01		6.82E-01	1.37E-01
		969.11		16.60	5.41E-01		3.34E-01	2.54E-01
	TH-230	48.44		16.90	4.19E-01	4.19E-01	-4.88E-01	2.02E-01
		62.85		4.60	1.06E+00		1.25E+00	5.12E-01
		67.67		0.37	1.03E+01		1.59E+00	4.98E+00
	PA-231	283.67		1.60	2.86E+00	2.04E+00	-1.18E-02	1.36E+00
		302.67		2.30	2.04E+00		6.07E-01	9.71E-01
	TH-231	25.64		14.70	1.30E+01	5.79E-01	8.08E+00	6.29E+00
		84.21		6.40	5.79E-01		5.77E-01	2.80E-01
	PA-233	311.98		38.60	2.48E-01	2.48E-01	-5.08E-02	1.17E-01
	PA-234	131.20		20.40	1.96E-01	1.96E-01	-9.27E-02	9.47E-02
		733.99		8.80	6.45E-01		1.55E-01	2.98E-01
		946.00		12.00	5.04E-01		1.61E-01	2.30E-01
	PA-234M	1001.03		0.92	6.88E+00	6.88E+00	2.01E+00	3.14E+00
+	TH-234	63.29	*	3.80	1.99E+00	1.99E+00	2.11E+00	9.77E-01
	U-235	143.76		10.50	3.89E-01	3.89E-01	3.62E-03	1.88E-01
		163.35		4.70	8.91E-01		1.13E-01	4.29E-01
		205.31		4.70	9.57E-01		1.94E-01	4.60E-01
	NP-237	86.50		12.60	3.77E-01	3.77E-01	1.59E-01	1.84E-01
	NP-239	106.10		22.70	2.13E+03	2.13E+03	4.31E+02	1.03E+03
		228.18		10.70	5.07E+03		-5.07E+03	2.43E+03
		277.60		14.10	4.10E+03		1.23E+03	1.95E+03
	AM-241	59.54		35.90	1.21E-01	1.21E-01	-4.02E-04	5.84E-02
	AM-243	74.67		66.00	7.46E-02	7.46E-02	-1.10E-01	3.63E-02
	CM-243	209.75		3.29	1.48E+00	3.32E-01	9.68E-01	7.12E-01
		228.14		10.60	4.12E-01		-4.11E-01	1.97E-01
		277.60		14.00	3.32E-01		9.98E-02	1.58E-01

Analysis Report for 1507047-12

FEEBRISID-11 087-088

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	***Comment***	***User***

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRISID-11 087-088

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	3	176
9:	533	1079	888	335	706	1713	220	164
17:	137	105	115	92	90	101	92	92
25:	93	96	98	72	92	80	62	110
33:	92	77	78	96	87	79	84	114
41:	91	124	93	100	88	95	175	94
49:	95	98	103	75	101	111	80	65
57:	68	64	72	74	90	87	122	132
65:	72	61	84	89	69	84	87	86
73:	90	102	244	122	269	206	76	77
81:	82	69	80	105	99	67	104	131
89:	78	120	90	94	179	118	65	47
97:	42	51	64	76	49	58	57	56
105:	58	77	55	59	58	61	57	54
113:	67	58	51	43	43	65	45	56
121:	57	41	44	67	44	49	62	64
129:	62	55	55	56	48	62	42	39
137:	49	51	52	58	41	45	50	66
145:	52	49	60	58	59	58	46	45
153:	46	67	64	44	44	43	43	50
161:	44	48	40	55	49	42	40	49
169:	33	47	42	36	47	43	43	43
177:	32	40	40	43	65	43	42	69
185:	68	149	71	35	48	45	47	48
193:	46	41	44	40	39	37	47	40
201:	38	36	46	40	38	37	41	44
209:	67	62	24	33	34	34	28	43
217:	39	34	35	34	32	29	24	37
225:	36	30	36	32	35	30	51	48
233:	34	41	37	45	28	147	303	92
241:	68	90	55	27	32	26	37	30
249:	16	24	29	29	31	29	25	27
257:	27	31	26	25	32	16	25	19
265:	23	29	30	31	35	45	47	17
273:	19	27	23	22	28	32	26	33
281:	26	37	24	25	27	20	27	20
289:	19	20	29	24	16	45	150	82
297:	25	25	24	42	30	31	32	15
305:	20	12	23	14	25	18	22	18
313:	21	18	19	19	14	18	24	21
321:	27	30	18	18	25	23	14	34
329:	25	21	16	15	28	16	19	18
337:	15	69	46	10	17	23	15	24
345:	17	24	8	21	18	22	85	252
353:	101	9	18	15	15	16	18	19
361:	14	26	20	17	10	19	13	27

369:	16	17	17	17	28	19	15	9

Sample Title: FEEBRISID-11 087-088

Channel								
377:	20	18	17	21	14	17	21	16
385:	10	18	17	16	23	12	13	16
393:	20	10	19	18	9	17	17	22
401:	27	17	14	13	12	13	16	8
409:	14	36	16	20	14	9	9	17
417:	14	15	9	17	10	25	16	20
425:	15	13	14	17	22	13	12	22
433:	13	16	14	16	13	17	15	14
441:	13	19	16	12	11	18	14	16
449:	20	13	12	17	16	13	28	11
457:	13	10	11	10	8	11	21	22
465:	20	16	13	12	13	18	16	14
473:	10	11	13	18	8	16	15	7
481:	10	12	10	11	9	7	13	9
489:	12	10	8	11	12	16	12	4
497:	13	7	15	6	8	5	12	10
505:	11	14	12	10	24	46	54	41
513:	13	19	5	7	9	11	10	12
521:	4	10	13	14	13	11	8	10
529:	17	12	7	16	8	9	9	7
537:	13	7	11	8	18	11	13	10
545:	10	3	12	9	6	9	14	4
553:	11	12	6	12	12	8	12	13
561:	5	16	23	11	13	8	5	10
569:	16	11	13	9	10	8	13	10
577:	8	9	9	9	11	30	102	44
585:	5	7	6	5	7	8	14	10
593:	6	7	5	11	9	10	11	15
601:	7	11	9	9	8	9	7	19
609:	150	91	20	4	10	7	7	10
617:	12	8	8	13	8	7	11	13
625:	9	9	10	8	8	8	12	11
633:	9	7	11	7	8	11	8	10
641:	12	5	9	5	9	4	5	8
649:	9	8	9	7	8	8	7	9
657:	5	5	8	15	92	128	29	11
665:	17	10	4	8	12	3	5	5
673:	7	6	11	8	7	7	6	8
681:	3	9	11	7	10	10	4	9
689:	4	8	6	7	4	8	6	9
697:	13	9	5	7	8	8	5	7
705:	5	9	10	11	11	8	5	6
713:	13	8	4	8	5	3	4	13
721:	4	8	5	9	5	7	21	18
729:	9	2	6	7	6	11	7	5
737:	7	6	6	4	5	5	5	2
745:	6	5	6	5	6	3	4	6
753:	5	4	8	4	9	6	5	10
761:	7	5	7	10	8	8	4	17
769:	9	4	9	10	11	1	5	3
777:	3	5	3	5	4	8	5	5
785:	8	8	8	7	4	5	2	6
793:	1	7	12	3	4	5	4	5

801:	4	4	8	9	9	9	13	3

Sample Title: FEEBRISID-11 087-088

Channel								
809:	2	4	4	5	5	5	7	2
817:	5	5	9	4	5	4	8	3
825:	3	4	3	4	6	8	5	2
833:	6	7	7	6	2	10	11	11
841:	4	6	4	5	5	2	5	4
849:	2	6	6	7	6	8	9	2
857:	9	1	8	10	6	8	8	3
865:	7	5	6	6	4	3	8	10
873:	7	6	4	4	5	4	1	4
881:	11	5	4	6	4	2	7	4
889:	7	1	2	5	8	2	8	2
897:	4	7	4	3	6	2	3	6
905:	6	6	4	8	4	17	57	33
913:	10	5	7	2	2	3	7	3
921:	9	8	3	6	8	5	6	4
929:	3	7	3	6	12	9	11	2
937:	8	3	4	4	2	6	0	6
945:	3	12	5	6	4	1	6	0
953:	6	7	0	3	8	5	6	8
961:	3	6	7	13	17	8	3	20
969:	24	17	4	5	2	3	7	5
977:	5	1	3	4	6	4	2	3
985:	5	2	3	4	5	7	1	5
993:	5	10	2	0	4	6	6	4
1001:	2	3	12	3	4	5	1	0
1009:	3	5	2	3	1	3	4	4
1017:	5	1	3	5	2	3	8	2
1025:	2	3	8	4	6	3	5	5
1033:	5	5	2	2	3	6	2	2
1041:	4	2	2	2	5	5	3	4
1049:	3	2	5	2	1	2	3	3
1057:	3	2	3	3	2	3	3	0
1065:	2	4	5	6	3	9	5	5
1073:	5	4	6	5	5	4	4	3
1081:	6	5	4	3	5	2	1	2
1089:	2	4	6	1	3	8	7	3
1097:	4	6	4	3	4	1	4	2
1105:	1	3	4	2	0	0	3	7
1113:	3	3	3	9	2	3	7	25
1121:	27	9	0	2	2	3	4	2
1129:	3	4	3	5	8	4	4	5
1137:	5	3	4	3	4	4	2	2
1145:	5	2	2	4	2	4	5	2
1153:	3	6	4	7	3	6	2	2
1161:	2	1	6	2	5	5	3	4
1169:	2	3	3	5	7	2	2	3
1177:	7	4	4	1	4	4	8	3
1185:	4	4	4	5	3	10	6	2
1193:	4	4	4	4	6	4	3	1
1201:	3	1	3	1	2	5	8	3
1209:	6	7	4	10	2	3	4	1
1217:	6	4	3	4	5	7	4	1
1225:	7	3	6	1	2	5	2	4

1233:	5	8	5	3	12	14	8	10

Sample Title: FEEBRISID-11 087-088

Channel								
1241:	3	3	3	4	2	4	3	7
1249:	2	2	2	0	3	2	4	3
1257:	2	3	3	2	3	0	2	4
1265:	1	1	4	0	3	5	2	2
1273:	0	6	3	2	1	7	6	0
1281:	7	5	6	5	2	5	1	2
1289:	0	1	4	2	0	3	5	4
1297:	2	6	2	4	2	2	4	1
1305:	1	3	0	5	0	1	0	4
1313:	1	5	4	4	1	4	2	1
1321:	3	4	6	2	1	3	2	2
1329:	1	1	3	3	1	0	4	5
1337:	2	2	3	0	3	0	2	2
1345:	2	1	4	2	0	2	1	0
1353:	1	1	1	2	3	5	5	1
1361:	4	1	2	1	1	2	4	0
1369:	0	1	2	1	0	5	0	3
1377:	9	4	4	0	3	1	2	0
1385:	3	3	0	3	2	1	0	1
1393:	0	1	3	2	0	1	0	3
1401:	0	2	3	1	3	1	4	2
1409:	2	1	3	1	6	3	2	0
1417:	4	1	4	1	2	1	5	4
1425:	3	1	0	4	1	2	1	2
1433:	4	1	1	0	1	1	3	0
1441:	3	1	0	2	0	2	2	1
1449:	2	4	3	3	0	1	3	2
1457:	3	5	18	53	91	39	10	3
1465:	1	0	1	2	1	3	1	1
1473:	2	3	3	0	2	2	3	1
1481:	1	4	1	3	1	2	2	3
1489:	0	3	2	3	3	0	0	1
1497:	7	6	1	1	3	0	1	1
1505:	1	0	3	2	7	3	2	0
1513:	1	2	0	0	5	3	4	1
1521:	1	0	0	1	1	0	0	5
1529:	3	2	1	1	2	2	1	3
1537:	3	1	1	0	2	0	2	1
1545:	1	1	0	2	0	1	1	0
1553:	0	4	3	1	3	2	1	1
1561:	3	1	0	2	3	2	0	2
1569:	0	2	1	3	1	2	2	1
1577:	3	2	1	3	3	2	1	2
1585:	2	0	4	8	4	1	3	2
1593:	2	0	2	3	0	3	0	1
1601:	2	1	0	1	0	0	0	0
1609:	0	1	0	3	1	0	0	2
1617:	3	2	2	4	2	2	2	0
1625:	0	1	3	1	0	4	2	2
1633:	0	1	3	0	0	1	1	1
1641:	0	0	3	1	1	2	0	0
1649:	1	3	2	0	0	0	2	0
1657:	1	0	2	3	2	5	0	1

1665:	0	3	1	0	2	0	0	1

Sample Title: FEEBRISID-11 087-088

Channel								
1673:	0	2	2	1	1	1	3	0
1681:	0	0	5	1	1	1	0	2
1689:	2	1	1	1	1	1	2	2
1697:	2	1	1	1	1	2	1	1
1705:	1	2	0	1	2	1	1	1
1713:	0	1	1	1	1	2	1	1
1721:	1	1	3	3	1	0	1	3
1729:	8	6	3	0	0	0	1	1
1737:	2	2	0	1	1	2	1	0
1745:	1	0	1	1	2	2	1	1
1753:	0	2	1	2	1	3	1	1
1761:	2	2	10	19	20	3	0	1
1769:	1	1	2	0	0	0	1	1
1777:	0	0	1	3	1	1	1	1
1785:	2	0	1	0	3	1	0	0
1793:	2	1	0	2	0	1	2	1
1801:	3	0	2	1	2	1	3	1
1809:	1	2	1	1	1	3	1	3
1817:	0	0	0	1	0	3	1	0
1825:	1	1	0	1	0	1	0	0
1833:	0	0	1	1	1	0	0	2
1841:	1	3	1	2	0	1	2	3
1849:	2	1	0	0	2	2	1	5
1857:	1	0	0	1	1	0	1	1
1865:	0	2	2	0	2	1	0	1
1873:	2	3	1	1	0	1	1	0
1881:	0	3	1	1	2	0	4	1
1889:	1	1	0	2	0	1	0	0
1897:	0	0	2	0	0	2	1	2
1905:	0	0	0	2	0	0	1	0
1913:	1	2	3	0	1	1	0	1
1921:	1	1	1	1	2	0	3	1
1929:	0	0	0	0	2	1	1	2
1937:	1	1	0	0	1	2	1	1
1945:	0	0	1	0	0	0	0	1
1953:	1	1	0	3	0	0	2	0
1961:	0	0	0	0	0	0	2	1
1969:	1	1	0	2	2	1	0	1
1977:	0	0	0	1	1	1	0	0
1985:	0	0	0	0	0	1	0	0
1993:	1	0	1	1	0	0	0	1
2001:	0	2	0	1	1	1	1	0
2009:	1	1	1	1	2	0	0	0
2017:	4	0	1	1	1	1	0	0
2025:	1	1	2	0	1	1	0	0
2033:	1	1	0	0	1	0	2	2
2041:	2	0	3	0	1	0	0	0
2049:	1	1	0	0	0	0	0	1
2057:	1	0	0	0	0	1	3	1
2065:	0	0	0	0	0	2	0	0
2073:	1	1	0	1	1	0	0	0
2081:	1	0	1	1	0	0	1	0
2089:	1	1	1	0	1	0	1	0

2097:	0	1	1	1	1	3	4	0

Sample Title: FEEBRISID-11 087-088

Channel								
2105:	1	0	0	0	3	0	0	0
2113:	1	3	0	3	3	0	0	2
2121:	1	0	3	1	0	2	0	1
2129:	1	0	0	1	0	2	1	1
2137:	3	0	0	2	1	0	0	0
2145:	0	0	0	0	0	1	1	0
2153:	0	0	0	0	1	1	2	0
2161:	1	1	1	0	0	0	1	2
2169:	1	0	0	0	0	1	0	1
2177:	1	1	2	0	0	1	0	0
2185:	0	1	0	0	2	0	0	0
2193:	0	0	0	3	1	1	1	1
2201:	2	4	3	3	4	0	0	0
2209:	0	0	0	0	0	0	0	0
2217:	2	0	0	0	1	1	0	1
2225:	0	2	0	1	0	0	0	0
2233:	1	0	0	0	2	2	0	2
2241:	1	0	0	1	2	0	1	1
2249:	1	2	0	1	1	1	0	0
2257:	0	1	0	0	2	0	0	0
2265:	1	1	2	1	0	0	2	0
2273:	2	1	0	3	0	1	1	0
2281:	1	0	0	1	1	0	2	1
2289:	0	0	0	1	1	1	0	1
2297:	2	0	2	0	2	2	0	0
2305:	0	0	0	0	0	0	1	1
2313:	2	0	2	1	0	1	0	1
2321:	3	0	1	0	0	1	0	1
2329:	1	0	0	1	2	0	1	0
2337:	2	0	1	0	1	0	0	1
2345:	1	0	1	3	2	0	0	0
2353:	1	2	0	0	0	1	0	0
2361:	2	3	0	1	2	1	1	1
2369:	2	1	0	0	0	0	1	0
2377:	2	0	1	1	1	0	2	0
2385:	0	0	0	2	1	2	1	0
2393:	0	0	1	2	2	0	0	0
2401:	0	0	1	1	0	1	0	0
2409:	1	1	0	2	0	0	1	0
2417:	1	1	0	1	0	1	0	1
2425:	0	1	0	0	0	0	0	0
2433:	1	1	0	1	1	0	0	0
2441:	0	0	1	2	1	1	0	0
2449:	0	1	1	0	0	0	0	1
2457:	2	0	2	1	1	1	1	0
2465:	0	0	1	0	1	0	0	0
2473:	1	1	0	1	0	1	1	1
2481:	1	1	0	1	1	0	0	1
2489:	0	2	0	1	0	0	0	0
2497:	0	0	0	1	0	1	0	0
2505:	1	0	0	0	0	0	0	1
2513:	0	0	0	1	1	0	1	1
2521:	0	0	0	1	1	0	0	0

2529:	2	1	0	0	0	0	0	0

Sample Title: FEEBRISID-11 087-088

Channel								
2537:	0	0	0	0	1	0	0	1
2545:	1	0	0	0	1	0	0	0
2553:	0	0	0	1	0	0	0	0
2561:	0	1	2	0	0	1	0	0
2569:	0	0	0	0	2	0	1	0
2577:	1	1	0	1	0	1	0	0
2585:	0	0	0	0	0	1	0	0
2593:	0	0	0	0	0	1	0	0
2601:	1	0	0	0	0	0	1	0
2609:	1	1	2	5	15	18	16	5
2617:	1	0	0	1	0	0	0	0
2625:	1	2	0	0	0	1	0	0
2633:	1	0	0	1	0	0	0	0
2641:	1	1	0	2	0	0	0	0
2649:	0	0	0	0	0	0	0	1
2657:	0	0	3	0	0	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	1	0	0	1	0	0	1
2681:	0	0	0	0	0	0	0	0
2689:	1	0	0	1	0	0	0	0
2697:	0	0	0	0	0	0	0	1
2705:	0	1	0	0	0	0	0	0
2713:	0	1	0	0	0	1	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	1	0	0	0	0	0	0
2737:	1	1	0	0	0	2	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	1	1	0	3	0	1
2761:	2	1	1	1	0	0	0	0
2769:	1	0	1	1	0	0	0	0
2777:	1	0	0	0	0	0	0	0
2785:	0	0	0	0	0	1	0	1
2793:	0	0	0	0	0	0	0	0
2801:	0	1	1	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	1	0	1	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	1	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	1	0	0	1	1	0
2857:	0	0	0	2	1	0	0	0
2865:	2	0	0	0	0	0	0	1
2873:	1	0	0	0	0	1	0	0
2881:	0	0	0	0	0	0	1	1
2889:	0	0	0	0	0	0	0	1
2897:	2	0	0	0	0	0	0	0
2905:	1	1	0	0	0	0	0	1
2913:	0	0	0	1	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	2	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	1
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	1	0	0

Sample Title: FEEBRISID-11 087-088

Channel								
2969:	0	0	0	1	1	0	0	0
2977:	0	1	0	0	0	1	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	1	0	0	0	2	0	1
3001:	1	1	1	0	0	0	0	0
3009:	1	0	0	0	0	0	0	0
3017:	0	1	0	0	0	0	1	0
3025:	1	0	1	0	0	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	2
3049:	0	0	1	0	0	0	0	0
3057:	0	0	0	0	0	1	1	0
3065:	0	0	0	0	1	0	1	0
3073:	1	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	1	1	0
3113:	0	0	0	0	0	0	0	0
3121:	0	1	0	0	1	0	1	0
3129:	0	0	1	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	1	0	1	0	1	0	0	0
3169:	0	0	1	0	0	0	0	0
3177:	1	0	1	0	0	0	0	1
3185:	1	0	0	0	0	0	0	0
3193:	0	0	0	0	2	1	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	1	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	2	0	0	0
3233:	0	2	0	0	1	0	0	0
3241:	0	0	1	0	0	0	0	0
3249:	0	0	0	0	1	0	0	0
3257:	0	0	0	1	0	0	0	0
3265:	0	0	0	0	0	0	0	1
3273:	0	0	0	0	0	2	0	1
3281:	0	0	0	0	1	0	0	0
3289:	0	1	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	1	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	1	0	0	0	0	0	1
3337:	1	0	1	0	0	0	0	0
3345:	0	0	0	0	1	0	1	0
3353:	0	0	0	0	0	0	1	0
3361:	1	0	0	0	0	0	1	0
3369:	0	0	0	1	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	1	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRISID-11 087-088

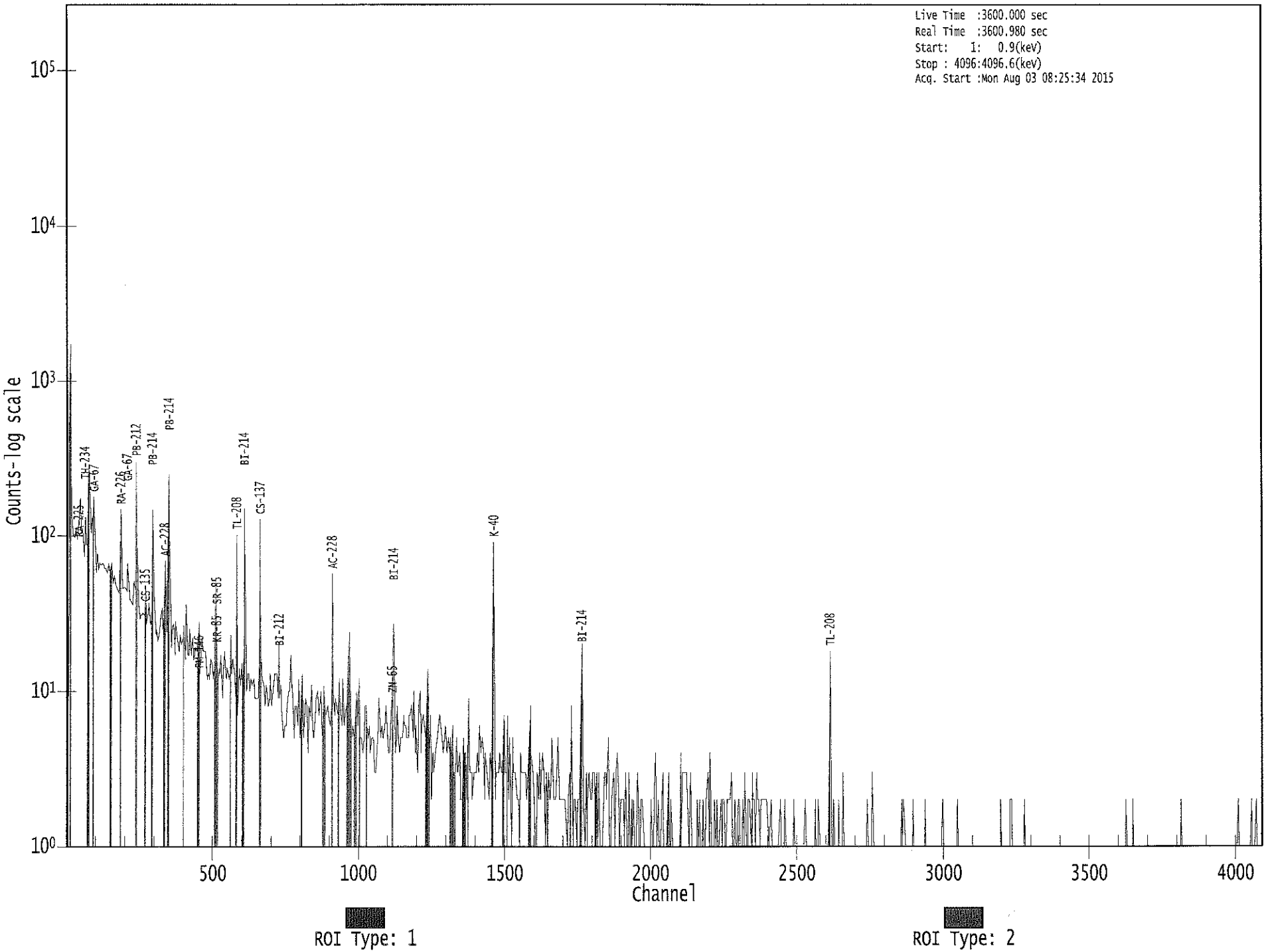
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	1	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	1	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	1
3457:	0	0	0	0	0	1	0	0
3465:	0	1	0	0	0	0	0	0
3473:	1	0	0	0	0	0	0	0
3481:	1	0	0	0	0	0	0	0
3489:	0	0	1	0	0	0	0	1
3497:	1	0	0	1	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	1	0	0	0	0	0	0	0
3545:	0	0	0	1	1	0	0	1
3553:	1	0	0	0	0	0	1	0
3561:	0	0	0	0	0	0	0	1
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	1	0
3601:	0	0	0	0	0	1	1	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	2	0	0	1	0	1	0
3633:	0	0	0	0	1	0	0	0
3641:	0	0	0	1	0	0	0	0
3649:	0	2	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	1	0	0	0	0	1	0	0
3673:	0	0	0	0	0	0	0	0
3681:	1	0	0	0	0	0	0	0
3689:	0	1	0	0	0	0	0	0
3697:	0	0	0	0	1	1	0	1
3705:	0	0	0	0	0	0	0	1
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	1	0	0	0	0	0	1
3737:	1	0	0	0	0	0	0	0
3745:	0	1	0	0	1	0	0	0
3753:	0	0	0	0	0	1	0	0
3761:	0	1	0	0	0	0	0	0
3769:	0	0	0	0	1	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	1	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	1	0	0	0	1	1	0
3809:	0	0	0	0	0	2	0	0
3817:	0	0	0	0	0	0	0	1

3825:	0	0	0	0	0	0	1	0

Sample Title: FEEBRISID-11 087-088

Channel								
3833:	1	0	0	0	1	0	0	0
3841:	1	1	0	0	1	0	0	0
3849:	0	1	0	1	0	0	0	0
3857:	0	1	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	1
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	1	0	0	0	0	0
3897:	0	1	0	0	0	0	0	0
3905:	0	0	0	0	0	1	1	0
3913:	0	0	0	0	0	1	0	0
3921:	0	0	0	1	0	1	0	0
3929:	0	0	1	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	1	0	0	0	0
3953:	0	0	0	0	0	0	0	1
3961:	1	0	0	0	1	1	0	0
3969:	0	0	0	0	1	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	1	0	0	0
3993:	0	0	0	1	1	0	0	1
4001:	0	0	0	0	1	0	0	0
4009:	0	0	2	1	0	0	0	0
4017:	0	0	1	0	1	0	0	0
4025:	0	0	0	0	0	1	0	0
4033:	0	0	0	0	0	0	1	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	1	0	0	0	2
4057:	0	0	0	0	0	0	0	0
4065:	0	0	1	0	0	0	0	2
4073:	0	0	1	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025460.CNF



****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/31/15 5:53:21 AM

7/31

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/31/15 5:38:08 AM
Measurement Date: 7/31/15 5:38:10 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 903.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3 [SD: 2.3138E+003+/-1579.6]	1.6860E+003	-3.9740E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/31/15 5:53:30 AM

7/31

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004B.QCK

Detector: GE4
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 7/31/15 5:38:16 AM
Measurement Date: 7/31/15 5:38:18 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.8 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE4	1.5244E+000	-4.7248E-002
[SD: 9.8323E+000+/-175.83]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
7/31/15 5:35:36 AM

7/31

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004GAW-14C.QCK

Detector: GE4
Geometry: <None>
Certificate: GAW-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/31/15 5:19:33 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 953.4 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.8643E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6091E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3319E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	2.2428E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.7302E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.8970E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Y-88	3.2225E+000	
Boundary Limits: [5.000E-001, 3.500E+000]		< : : : >
Decay corrected activity	1.2186E+005	
Boundary Limits: [1.200E-001, 1.816E-001]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	6.4969E+004	
Boundary Limits: [4.918E-002, 7.377E-002]		< : : : >
Decay corrected activity	9.7763E+004	
Boundary Limits: [7.892E-002, 1.184E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1743E+005	
Boundary Limits: [1.695E-001, 2.543E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
7/31/15 5:35:24 AM

7171

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 7/31/15 5:19:25 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 946.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9832E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6180E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Peak centroid 1332.49 ke	1.3328E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8364E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.7317E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.7554E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.1866E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.5753E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.7770E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Decay corrected activity	6.5547E+004	
Boundary Limits: [4.969E-002, 7.453E-002]		< : : : >
Decay corrected activity	1.0316E+005	

Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	2.1645E+005	
Boundary Limits: [1.713E-001, 2.569E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/3/15 6:11:40 AM

8/7

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/3/15 5:56:27 AM
Measurement Date: 8/3/15 5:56:28 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1	2.4311E+000	7.2318E-001
[SD: 2.1649E+000+/- 0.368]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/3/15 6:11:49 AM

817

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/3/15 5:56:33 AM
Measurement Date: 8/3/15 5:56:35 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2 [SD: 4.5759E+000+/- 0.281]	4.3200E+000	-9.0957E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/3/15 6:11:58 AM

8/7

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/3/15 5:56:41 AM
Measurement Date: 8/3/15 5:56:43 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 903.6 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3 [SD: 2.3124E+003+/-1578.2]	1.7340E+003	-3.6649E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/3/15 6:12:06 AM

8/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004B.QCK

Detector: GE4
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/3/15 5:56:48 AM
Measurement Date: 8/3/15 5:56:50 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.5 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE4 [SD: 9.8143E+000+/-175.64]	1.5456E+000	-4.7077E-002 < : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/3/15 5:45:01 AM

8/17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/3/15 5:29:20 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 927.7 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0244E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6181E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0687E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.7446E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.3436E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.5324E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4505E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	5.9689E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Decay corrected activity 9.9841E+003
Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.9242E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

```
*****************************************************************************
*****          G E N I E   Q U A L I T Y   A S S U R A N C E          *****
*****************************************************************************
```

Last Results Report
8/3/15 5:45:11 AM

8/3

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/3/15 5:29:28 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 930.6 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6157E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3319E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.0667E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1541E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.5865E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5454E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	6.3353E+004	
Boundary Limits: [4.971E-002, 7.457E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0403E+005	
Boundary Limits: [7.978E-002, 1.197E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1746E+005	
Boundary Limits: [1.714E-001, 2.571E-001]		< : : : >

Flags Key:
- LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
- SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
- UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
- BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/3/15 5:45:34 AM

8/7

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/3/15 5:29:37 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 945.4 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9754E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6157E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.8319E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.0958E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2514E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.5038E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.7920E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Decay corrected activity	6.6259E+004	
Boundary Limits: [4.969E-002, 7.453E-002]		< : : : >
Decay corrected activity	1.0262E+005	

Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	2.1004E+005	
Boundary Limits: [1.713E-001, 2.569E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/3/15 5:45:51 AM

8/3

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004GAW-14C.QCK

Detector: GE4
Geometry: <None>
Certificate: GAW-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/3/15 5:29:45 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 954.7 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.8625E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6087E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3319E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	2.2388E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.6703E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.9616E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Y-88	3.2048E+000	
Boundary Limits: [5.000E-001, 3.500E+000]		< : : : >
Decay corrected activity	1.2179E+005	
Boundary Limits: [1.200E-001, 1.816E-001]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	6.5160E+004	
Boundary Limits: [4.918E-002, 7.377E-002]		< : : : >
Decay corrected activity	9.8186E+004	
Boundary Limits: [7.892E-002, 1.184E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1933E+005	
Boundary Limits: [1.695E-001, 2.543E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-07092-OR

August 19, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

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VI	Quality Control Sample Results Summary	0038
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VIII	Analytical Data (Isotopic Uranium)	0065
IX	Analytical Data (Isotopic Thorium)	0126
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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 15-07092

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		7/15/15	KC	Sample Log-In
		8/6/15	JG	Data Compilation
		8-11-15	MLT	First Technical Data Review
		8/11/15	MSL	Second Technical Data Review
		8/18/15		Data Entry/Electronic Deliverable
		8/18/15		Case Narrative
		8/18/15	KBL	Electronic Deliverable Proof
		8/18/15	MSL	Samples Analyzed within Holding Time Yes? [X] No? [ ]
		8/18/15	MSL	QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: _____ 8/18/15

Laboratory Manager Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7140

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Page 1 of 1

Project Name: BRIDGETON	Project Number: BOR/ENG 1-D
Send Report To: C. GREENE	Sampler (Print Name): JIM DRAKE
Address: 9871 COGDILL RD #1	Sampler (Print Name):
KNOXVILLE, TN 37932	Shipment Method: FED-X
	Airbill Number: 807076411010
Phone: 865-675-3669	Laboratory Receiving:
~~Fax:~~ CGREEN@AUXIER.COM	

Purchase Order #: ENG BOR 1-D

15-07092

Analysis Requested

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	GAMMA SPEC	ISO THORIUM	ISO URANIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRIS1D-19.061-063	7/8/15	1018	S	1	X	X	X	CAUTION: SHARP	
5	DUPLICATE #3	7/8/15	1018	S	1	X	X	X	OBJECTS IN	
6	FEEBRIS1D-10.046-049	7/9/15	1210	S	1	X	X	X	SAMPLE	
7	FEEBRIS1D-10.074-076	7/12/15	1041	S	1	X	X	X	CONTAINERS!!	

REC'D JUL 15 2015

REC'D JUL 15 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Jim Drake		7/14/15	1100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Kristen Coulston	7/15/15	1200
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level		Turnaround	
Level I	☐	Routine	☒
Level II	☐	24 Hour	☐
Level III	☐	1 Week	☐
Other	☐	Other _____	

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07092
Lab Deadline	8/5/2015
Analysis	UUISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	32	C1.1
05	33	C1.1
06	34	C1.1
07	39	C1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1100	Very seq	7-15-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1345	Very seq	7-16-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/16/15 1345	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/22/15 1300	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 7-22-15 0800	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 7-22-15 0806	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7/27 0806	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 7/27/15 1156	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07092
Lab Deadline	8/5/2015
Analysis	ThISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	32	C1.1
05	33	C1.1
06	34	C1.1
07	39	C1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1100	Kmy Soj	7-15-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1345	Kmy Soj	7-16-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/16/15 1345	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWolfe 7/23/15 1300	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7-23-15 1300	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7-23-15 0800	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	7/27/15 0806	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	ICB 7/27/15 1409	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07092
Lab Deadline	8/5/2015
Analysis	Gamma - Level 4
Sample Matrix	Soil/Solid

Comments

21 day ingrowth: Report Ac228, Bi214, K40, Pa231, Pb210/212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	32	C1.1
05	33	C1.1
06	34	C1.1
07	39	C1.1

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1100	KenySaly	7-15-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0925	KenySaly	7-16-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 7/16/15 0929	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	C 8/16/15	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	07/15/2015	28	15-07092
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	Bridgeton ENG/BOR 1-D	H	08/05/2015	08/11/2015	08/12/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																							Tti
01	LCS	07/15/15	SO	C1.1	X	X	X																							3
02	BLANK	07/15/15	SO	C1.1	X	X	X																							3
03	DUP	07/15/15	SO	C1.1	X	X	X																							3
04	FEEBRIS1D-19 061-063	07/08/15 10:18	SO	C1.1	X	X	X																							3
05	DUPLICATE 3	07/08/15 10:18	SO	C1.1	X	X	X																							3
06	FEEBRIS1D-10 046-049	07/09/15 12:10	SO	C1.1	X	X	X																							3
07	FEEBRIS1D-10 074-076	07/12/15 10:41	SO	C1.1	X	X	X																							3
																														0
																														0
																														0
																														0
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																														0
																														0
																														0
																														0
																														0
																														0
																														0
																														0
	Totals Per Analysis (non QA samples)				4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		Report Data		
	West Lake Landfill OU-1 Resp		Cecilia Greene	Marsha Joseph
	AMO Environmental Decisions		Auxier & Associates, Inc.	Auxier, Inc.
	PO Box 410		9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Danboro, PA 18916		Knoxville, TN 37932	Knoxville, TN 37932
Voice	215-230-8282	*Voice*	865-675-0379	865-675-3669
Fax	215-230-8283	*Fax*	865-675-3677	865-675-3677
Contact	Marsha Joseph			
Voice	865-675-3669			
Fax	865-675-3677			

Printed: 7/15/2015 2:54 PM

Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-07092

SAMPLE MATRIX/MATRICES: (CIRCLE ONE OR BOTH)

AQUEOUS (NON-AQUEOUS)

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kristen Coulston DATE: 7/15/15

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39541

August 19, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-07092-OR

SAMPLE RECEIPT

This work order contains four soil samples received 07/15/2015. These samples were analyzed for Isotopic Uranium, Isotopic Thorium and Gamma Spectroscopy.

CLIENT ID	LAB ID
FEEBRIS1D-19 061-063	15-07092-04
DUPLICATE 3	15-07092-05
FEEBRIS1D-10 046-049	15-07092-06
FEEBRIS1D-10 074-076	15-07092-07

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

ISOTOPIC URANIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM CONTINUED

Samples demonstrated acceptable results for all Uranium analyses. Chemical recovery was acceptable for all samples. The Uranium-234, Uranium-235 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-234 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Uranium-235 and Uranium-238 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-227, Thorium-228, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Thorium analyses. Actinium-227 results were reported from Thorium-227 assuming secular equilibrium. Chemical recovery was acceptable for all samples. The Thorium-228, Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-228 and Thorium-232 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-230 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Thorium-228, Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

Samples for Gamma Spectroscopy analysis were prepared by transferring a known mass/aliquot of each prepared and homogenized sample to a standard geometry container. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors.

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Bismuth-214, Lead-214 and Potassium-40 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 8/19/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07092
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07092-01	LCS	KNOWN	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-07092-01	LCS	KNOWN	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Cobalt-60	LANL ER-130 Modified	1.40E+02	8.19E+00	1.09E+01	9.03E-01	6.91E-01	pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Cesium-137	LANL ER-130 Modified	9.08E+01	8.15E+00	9.39E+00	1.08E+00	5.37E-01	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Actinium-228	LANL ER-130 Modified	4.35E-02	6.69E-02	6.69E-02	1.23E-01	5.47E-02	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Bismuth-214	LANL ER-130 Modified	8.26E-02	4.33E-02	4.35E-02	8.52E-02	3.96E-02	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Potassium-40	LANL ER-130 Modified	1.13E-01	2.20E-01	2.20E-01	4.10E-01	1.79E-01	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Protactinium-231	LANL ER-130 Modified	2.19E-01	6.37E-01	6.38E-01	9.20E-01	4.23E-01	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Lead-210	LANL ER-130 Modified	1.06E+00	7.97E-01	7.98E-01	1.29E+00	6.21E-01	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Lead-212	LANL ER-130 Modified	2.05E-02	3.66E-02	3.66E-02	5.30E-02	2.49E-02	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Lead-214	LANL ER-130 Modified	5.86E-03	5.60E-02	5.60E-02	7.55E-02	3.52E-02	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Radium-226	LANL ER-130 Modified	8.26E-02	4.33E-02	4.35E-02	8.52E-02	3.19E-01	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Radium-228	LANL ER-130 Modified	4.35E-02	6.69E-02	6.69E-02	1.23E-01	5.47E-02	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Thorium-234	LANL ER-130 Modified	5.57E-01	2.77E-01	2.78E-01	5.21E-01	2.46E-01	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	8/4/2015	15-07092	Thallium-208	LANL ER-130 Modified	6.38E-03	5.66E-02	5.66E-02	9.04E-02	4.07E-02	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Actinium-228	LANL ER-130 Modified	1.19E+00	4.59E-01	4.63E-01	7.70E-01	3.58E-01	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Bismuth-214	LANL ER-130 Modified	1.13E+00	3.06E-01	3.12E-01	4.14E-01	1.96E-01	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Potassium-40	LANL ER-130 Modified	1.86E+01	3.17E+00	3.31E+00	2.17E-01	0.00E+00	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Protactinium-231	LANL ER-130 Modified	-1.27E+00	2.45E+00	2.45E+00	5.24E+00	2.51E+00	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-210	LANL ER-130 Modified	3.16E-01	8.99E-01	9.00E-01	1.40E+00	6.81E-01	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-212	LANL ER-130 Modified	1.64E+00	3.33E-01	3.43E-01	4.23E-01	2.07E-01	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-214	LANL ER-130 Modified	9.74E-01	2.92E-01	2.96E-01	4.71E-01	2.28E-01	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Radium-226	LANL ER-130 Modified	1.13E+00	3.06E-01	3.12E-01	4.14E-01	2.31E+00	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Radium-228	LANL ER-130 Modified	1.19E+00	4.59E-01	4.63E-01	7.70E-01	3.58E-01	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Thorium-234	LANL ER-130 Modified	2.54E+00	1.62E+00	1.62E+00	2.66E+00	1.31E+00	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Thallium-208	LANL ER-130 Modified	1.23E+00	3.21E-01	3.27E-01	2.12E-01	4.10E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07092
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Actinium-228	LANL ER-130 Modified	1.23E+00	4.94E-01	4.98E-01	9.73E-01	4.60E-01	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Bismuth-214	LANL ER-130 Modified	1.17E+00	3.17E-01	3.22E-01	4.29E-01	2.04E-01	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Potassium-40	LANL ER-130 Modified	1.77E+01	3.17E+00	3.29E+00	1.58E+00	6.79E-01	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Protactinium-231	LANL ER-130 Modified	-2.19E+00	2.76E+00	2.76E+00	4.85E+00	2.31E+00	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-210	LANL ER-130 Modified	4.20E-01	8.89E-01	8.89E-01	1.39E+00	6.77E-01	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-212	LANL ER-130 Modified	1.67E+00	3.65E-01	3.75E-01	4.89E-01	2.40E-01	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-214	LANL ER-130 Modified	1.24E+00	3.11E-01	3.17E-01	4.88E-01	2.36E-01	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Radium-226	LANL ER-130 Modified	1.17E+00	3.17E-01	3.22E-01	4.29E-01	1.74E+00	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Radium-228	LANL ER-130 Modified	1.23E+00	4.94E-01	4.98E-01	9.73E-01	4.60E-01	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Thorium-234	LANL ER-130 Modified	1.39E+00	1.35E+00	1.35E+00	2.12E+00	1.04E+00	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Thallium-208	LANL ER-130 Modified	8.37E-01	5.21E-01	5.23E-01	8.28E-01	3.98E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Actinium-228	LANL ER-130 Modified	1.08E+00	2.34E-01	2.41E-01	5.52E-01	2.66E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Bismuth-214	LANL ER-130 Modified	1.28E+00	1.66E-01	1.78E-01	2.01E-01	1.09E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Potassium-40	LANL ER-130 Modified	1.76E+01	2.05E+00	2.24E+00	6.45E-01	2.85E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Protactinium-231	LANL ER-130 Modified	1.65E-01	7.08E-01	7.08E-01	2.33E+00	1.11E+00	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-210	LANL ER-130 Modified	1.25E+00	1.47E+00	1.48E+00	1.97E+00	9.57E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-212	LANL ER-130 Modified	1.19E+00	1.45E-01	1.58E-01	2.91E-01	1.43E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Lead-214	LANL ER-130 Modified	1.37E+00	1.42E-01	1.59E-01	2.57E-01	1.25E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Radium-226	LANL ER-130 Modified	1.28E+00	1.66E-01	1.78E-01	2.01E-01	1.20E+00	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Radium-228	LANL ER-130 Modified	1.08E+00	2.34E-01	2.41E-01	5.52E-01	2.66E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Thorium-234	LANL ER-130 Modified	1.46E+00	1.41E+00	1.41E+00	1.89E+00	9.22E-01	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	8/6/2015	15-07092	Thallium-208	LANL ER-130 Modified	1.07E+00	1.51E-01	1.60E-01	1.58E-01	1.65E-01	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Actinium-228	LANL ER-130 Modified	1.58E+00	2.75E-01	2.87E-01	5.37E-01	2.53E-01	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Bismuth-214	LANL ER-130 Modified	1.34E+00	2.25E-01	2.35E-01	3.40E-01	1.63E-01	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Potassium-40	LANL ER-130 Modified	2.10E+01	2.91E+00	3.10E+00	1.70E+00	7.93E-01	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Protactinium-231	LANL ER-130 Modified	-3.10E+00	2.92E+00	2.93E+00	3.14E+00	1.49E+00	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Lead-210	LANL ER-130 Modified	1.98E+00	2.33E+00	2.33E+00	3.59E+00	1.74E+00	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Lead-212	LANL ER-130 Modified	1.38E+00	1.99E-01	2.11E-01	2.99E-01	1.46E-01	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Lead-214	LANL ER-130 Modified	1.42E+00	1.87E-01	2.00E-01	3.01E-01	1.45E-01	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Radium-226	LANL ER-130 Modified	1.34E+00	2.25E-01	2.35E-01	3.40E-01	1.43E+00	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Radium-228	LANL ER-130 Modified	1.58E+00	2.75E-01	2.87E-01	5.37E-01	2.53E-01	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Thorium-234	LANL ER-130 Modified	1.60E+00	1.59E+00	1.59E+00	2.64E+00	1.29E+00	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	8/6/2015	15-07092	Thallium-208	LANL ER-130 Modified	1.29E+00	2.02E-01	2.12E-01	2.27E-01	1.60E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

15092

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07092
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Actinium-228	LANL ER-130 Modified	6.61E-01	2.28E-01	2.31E-01	4.31E-01	1.94E-01	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Bismuth-214	LANL ER-130 Modified	8.11E-01	1.92E-01	1.96E-01	2.60E-01	1.21E-01	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Potassium-40	LANL ER-130 Modified	1.06E+01	1.86E+00	1.94E+00	9.89E-01	4.14E-01	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Protactinium-231	LANL ER-130 Modified	1.06E+00	2.28E+00	2.28E+00	3.57E+00	1.69E+00	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Lead-210	LANL ER-130 Modified	3.29E+00	1.77E+00	1.78E+00	2.59E+00	1.25E+00	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Lead-212	LANL ER-130 Modified	8.39E-01	1.46E-01	1.52E-01	3.13E-01	1.52E-01	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Lead-214	LANL ER-130 Modified	7.51E-01	1.92E-01	1.95E-01	3.34E-01	1.60E-01	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Radium-226	LANL ER-130 Modified	8.11E-01	1.92E-01	1.96E-01	2.60E-01	1.14E+00	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Radium-228	LANL ER-130 Modified	6.61E-01	2.28E-01	2.31E-01	4.31E-01	1.94E-01	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Thorium-234	LANL ER-130 Modified	1.17E+00	1.66E+00	1.66E+00	2.22E+00	1.07E+00	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	8/6/2015	15-07092	Thallium-208	LANL ER-130 Modified	7.71E-01	1.94E-01	1.98E-01	7.06E-02	1.68E-01	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Actinium-227	EML Th-01 Modified	7.03E-02	8.53E-02	8.57E-02	1.19E-01	1.60E-02	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Actinium-227	EML Th-01 Modified	1.14E-01	9.16E-02	9.27E-02	8.20E-02	7.28E-03	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Actinium-227	EML Th-01 Modified	1.29E-01	9.07E-02	9.21E-02	7.13E-02	6.30E-03	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Actinium-227	EML Th-01 Modified	7.70E-02	6.91E-02	6.97E-02	7.36E-02	8.27E-03	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	7/27/2015	15-07092	Actinium-227	EML Th-01 Modified	6.28E-02	5.62E-02	5.67E-02	6.00E-02	6.73E-03	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	7/27/2015	15-07092	Actinium-227	EML Th-01 Modified	6.29E-02	5.82E-02	5.87E-02	6.67E-02	8.91E-03	pCi/g
15-07092-01	LCS	KNOWN	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	4.94E+00	1.78E-01				pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	5.51E+00	8.44E-01	9.91E-01	7.87E-02	1.22E-02	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	1.36E-02	4.17E-02	4.18E-02	9.88E-02	8.63E-03	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	3.12E-01	1.56E-01	1.59E-01	9.60E-02	1.27E-02	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	2.52E-01	1.31E-01	1.33E-01	9.33E-02	1.59E-02	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	3.29E-01	1.48E-01	1.51E-01	9.55E-02	1.97E-02	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	4.23E-01	1.53E-01	1.58E-01	6.40E-02	8.44E-03	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	7/27/2015	15-07092	Thorium-228	EML Th-01 Modified	3.31E-01	1.37E-01	1.40E-01	8.59E-02	2.05E-02	pCi/g
15-07092-01	LCS	KNOWN	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	5.38E+00	1.45E-01				pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	6.11E+00	9.18E-01	1.19E+00	7.88E-02	7.50E-02	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	5.15E-02	7.19E-02	7.22E-02	1.09E-01	1.11E-01	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	1.08E+00	3.28E-01	3.54E-01	7.99E-02	8.70E-02	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	5.92E-01	2.08E-01	2.21E-01	6.96E-02	7.54E-02	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	6.99E-01	2.29E-01	2.45E-01	1.04E-01	9.21E-02	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	4.63E-01	1.59E-01	1.69E-01	5.85E-02	5.97E-02	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	7/27/2015	15-07092	Thorium-230	EML Th-01 Modified	3.05E-01	1.27E-01	1.33E-01	6.05E-02	6.18E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07092
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07092-01	LCS	KNOWN	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	4.94E+00	1.78E-01				pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	5.42E+00	8.33E-01	9.60E-01	6.89E-02	8.04E-03	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	4.13E-02	7.06E-02	7.06E-02	1.24E-01	2.12E-03	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	5.39E-01	2.12E-01	2.17E-01	9.41E-02	1.31E-02	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	4.57E-01	1.79E-01	1.83E-01	7.62E-02	8.88E-03	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	2.36E-01	1.24E-01	1.26E-01	1.00E-01	2.47E-02	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	3.30E-01	1.30E-01	1.34E-01	5.32E-02	4.92E-03	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	7/27/2015	15-07092	Thorium-232	EML Th-01 Modified	3.18E-01	1.30E-01	1.33E-01	5.50E-02	5.09E-03	pCi/g
15-07092-01	LCS	KNOWN	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	8.04E+00	2.89E-01				pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	8.67E+00	1.28E+00	1.42E+00	9.88E-02	1.69E-03	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	6.63E-02	6.32E-02	6.33E-02	6.80E-02	6.28E-03	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	4.71E-01	1.86E-01	1.89E-01	8.15E-02	7.53E-03	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	4.00E-01	1.58E-01	1.60E-01	8.56E-02	1.46E-03	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	6.57E-01	2.06E-01	2.11E-01	5.98E-02	3.91E-03	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	2.09E-01	1.29E-01	1.30E-01	8.05E-02	5.24E-03	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	7/27/2015	15-07092	Uranium-234	EML U-02 Modified	3.76E-01	1.58E-01	1.60E-01	1.05E-01	2.41E-02	pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-235	EML U-02 Modified	7.05E-01	2.51E-01	2.56E-01	9.72E-02	6.63E-03	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-235	EML U-02 Modified	2.28E-01	1.31E-01	1.32E-01	1.05E-01	8.98E-04	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-235	EML U-02 Modified	1.02E-01	9.32E-02	9.35E-02	8.77E-02	3.97E-03	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-235	EML U-02 Modified	1.64E-01	1.11E-01	1.12E-01	9.94E-02	1.06E-02	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-235	EML U-02 Modified	1.91E-01	1.17E-01	1.18E-01	7.38E-02	3.35E-03	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	7/27/2015	15-07092	Uranium-235	EML U-02 Modified	6.33E-02	8.20E-02	8.22E-02	1.14E-01	7.75E-03	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	7/27/2015	15-07092	Uranium-235	EML U-02 Modified	1.55E-01	1.09E-01	1.10E-01	9.55E-02	8.46E-03	pCi/g
15-07092-01	LCS	KNOWN	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	7.83E+00	2.82E-01				pCi/g
15-07092-01	LCS	SPIKE	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	8.04E+00	1.20E+00	1.33E+00	9.84E-02	1.17E-03	pCi/g
15-07092-02	MBL	BLANK	07/15/15 00:00	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	1.39E-01	8.93E-02	8.99E-02	5.91E-02	3.42E-03	pCi/g
15-07092-03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	5.51E-01	2.03E-01	2.07E-01	8.90E-02	9.88E-03	pCi/g
15-07092-04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	3.36E-01	1.42E-01	1.44E-01	6.80E-02	5.85E-03	pCi/g
15-07092-05	TRG	DUPLICATE 3	07/08/15 10:18	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	5.78E-01	1.92E-01	1.97E-01	7.49E-02	8.33E-03	pCi/g
15-07092-06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	4.58E-01	1.95E-01	1.98E-01	8.02E-02	4.64E-03	pCi/g
15-07092-07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	7/15/2015	7/27/2015	15-07092	Uranium-238	EML U-02 Modified	3.32E-01	1.54E-01	1.56E-01	1.36E-01	5.12E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

0000

SECTION V

ANALYTICAL STANDARD

QA/QC REVIEWED
Date 1/16/95 Initials MK

U-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution: 65.2896 g in a 50 ml flame sealed ampoule

b. Chemical form: Uranyl Nitrate in H2O

c. Carrier content: None

d. Density: Approximately 1.3202 g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
3017 N. SAN FERNANDO BLVD.
BURBANK, CALIFORNIA 91504
818·843·7000 FAX 818·843·6168

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 479-50

SOLUTION #: U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide: $^{234, 235, 238}U$

Reference Date: 1/1/1995 0:00

Certified Activity: 8.016E+00 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution

Uranyl nitrate in dilute HNO_3

Dilution Instructions:

Dilution Solvent Used: 1M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 8.0160 µCi Which Equals 1.780E+07 dpm at the date listed above

And after dilution the activity of this solution is 1.77955E+04 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 479-50	Solution #	U-8a

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest: $^{234, 235, 238}U$
Parent Solution Conc.: 1.7796E+04 dpm/ml

Reference Date: 1/1/1995 0:00

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	4.0000	ml
Total Activity:	7.1182E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 7.1182E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.35E grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Accuracy

Method of measurement (see reverse of this certificate)
Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity

Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity

The isotopic composition, expressed as atom per cent at the reference date .

Not measured

Chemical Composition

Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data

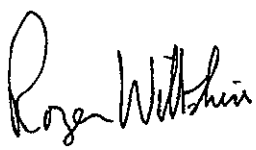
Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks

For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory



Project Ref. AE2315

Roger Wiltshire

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

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MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 11/11/2014 0:00

SOLUTION REFERENCE #: AEA/Amersham 92/232/67 | SOLUTION #: U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide: ^{232}U
Certified Activity: 9.760E-01 µCi
Certified Concentration: µCi per gram

Reference Date: 3/1/2000 0:00

Ampoule /Solution Gross: Weight, Grams
Empty Ampoule: Weight, Grams
Solution Net: Weight, Grams
Total Activity in Ampoule: 0.9760 µCi

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used: 2M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 0.9760 µCi Which Equals 2.167E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.167E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

EBERLINE SERVICES

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009
Solution Reference # AEA/Amersham 92/232/67

Date 11/11/2014 0:00
Solution # U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest ^{232}U
Parent Solution Conc. 2.167E+03 dpm/ml

Reference Date 3/1/2000 0:00

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.1670E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.1670E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 µCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)	
b. Chemical form:	Th(NO3)4 in water	
c. Carrier content:	None added	
d. Density:	Approx. 1.21	g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 µCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
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EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 435-104-2

SOLUTION #: Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide: $^{232\&228}Th$

Reference Date: 11/1/1993 0:00

Certified Activity: 9.330E-02 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in H_2O

Dilution Instructions:

Dilution Solvent Used: 1% Nitric Acid

Dilute to a volume of: 1000.00 milliliters

Certified Total Activity of: 0.0933 µCi Which Equals: 2.071E+05 dpm at the date listed above

And after dilution the activity of this solution is: 2.071E+02 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

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MP-009

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 435-104-2	Solution #	Th-8b

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{228\ \&\ 232}Th$	1.405E+10	5.132E+12

Radionuclide of Interest: $^{228\ \&\ 232}Th$
Parent Solution Conc.: 2.07E+02 dpm/ml

Reference Date: 11/1/1993 0:00

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions:

Dilution Solvent Used: 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 500.0000 ml
Total Activity: 1.0355E+05 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 1.0355E+02 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

QA/QC REVIEWED
Date 10/14/91 Initials LWT 10/14/91 LWT

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 µCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 µCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

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EBERLINE SERVICES

QUALITY CONTROL PROGRAM

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Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 4/15/2015 0:00

SOLUTION REFERENCE # IPL 388-116 **SOLUTION #** Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide ^{230}Thorium
Certified Activity 1.036E+00 µCi
Certified Concentration µCi per gram

Reference Date 11/1/1991 0:00

Ampoule /Solution Gross	9.2660	Weight, Grams
Empty Ampoule	4.6218	Weight, Grams
Solution Net	4.6442	Weight, Grams
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used 0.1N HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0360 µCi **Which Equals** 2.300E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.300E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

EBERLINE SERVICES | QUALITY CONTROL PROGRAM
MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009
Solution Reference # IPL 388-116

Date 4/15/2015 0:00
Solution # Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest: ^{230}Thorium
Parent Solution Conc.: 2.30E+03 dpm/ml

Reference Date: 11/1/1991 0:00

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2999E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2999E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity: (Th-229 only)**	1.013 µCi 37.48 kBq

Physical Description:

A. Mass of solution:	5.0147 g in 5 mL flame-sealed ampoule
B. Chemical form:	$Th(NO_3)_4$ in 0.1M HNO_3
C. Carrier content:	10µg Th/mL
D. Density:	1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.

Peak energy used for integration:	193.5 keV
Branching ratio used:	0.0441 gammas per decay

Uncertainty of Measurement:

A. Type A (random) uncertainty:	± 0.7 %
B. Type B (systematic) uncertainty:	± 3.0 %
C. Uncertainty in aliquot weighing:	± 0.0 %
D. Total uncertainty at the 99% confidence level:	± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 867-54

SOLUTION #: Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Reference Date: 1/15/2002 0:00

Radionuclide	^{229}Th	
Certified Activity	1.013E+00	µCi
Certified Concentration		µCi per gram

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1 M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 1.0130 µCi Which Equals 2.249E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.249E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 867-54	Solution #	Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide of Interest	^{229}Th	
Parent Solution Conc.	2.25E+03 dpm/ml	Reference Date 1/15/2002 0:00

Chemical Composition of Standard Solution
$TH(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000	ml
Total Activity:	2.2490E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 2.2490E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404•352•8677
Fax 404•352•2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION
Standard Radionuclide Source

GAS-1402

98503

Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ANA Form005 Rev. --

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00037

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07092	UUISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		107.88%	16.43%	100.00%	3.60%	8.04E+00	2.89E-01	8.67E+00	1.42E+00	U-8a	3.52E+01	3.60E+00	5.06E-01
U-238		102.66%	16.59%	100.00%	3.60%	7.83E+00	2.82E-01	8.04E+00	1.33E+00	U-8a	3.44E+01	3.60E+00	5.06E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

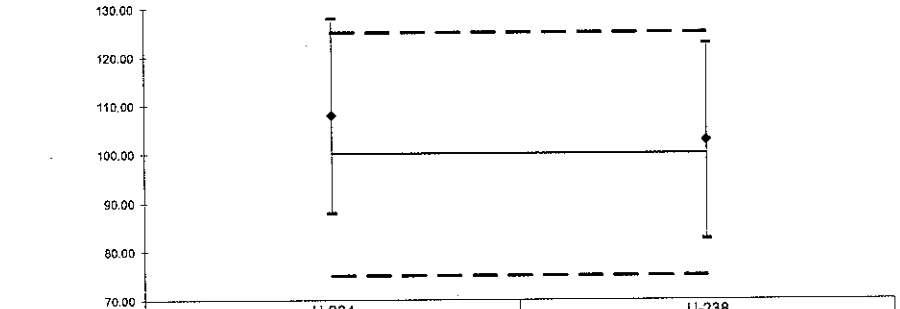
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	0.56	16.38	4.00E-01	1.60E-01	4.71E-01	1.89E-01
U-238	1.67	48.37	3.36E-01	1.44E-01	5.51E-01	2.07E-01
U-235	0.84	47.19	1.64E-01	1.12E-01	1.02E-01	9.35E-02

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.08	OK				NA	OK
1.03	OK				NA	OK
	OK				NA	OK

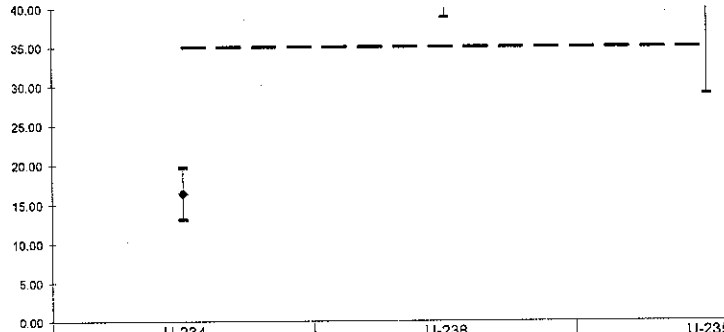
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07092	UUISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



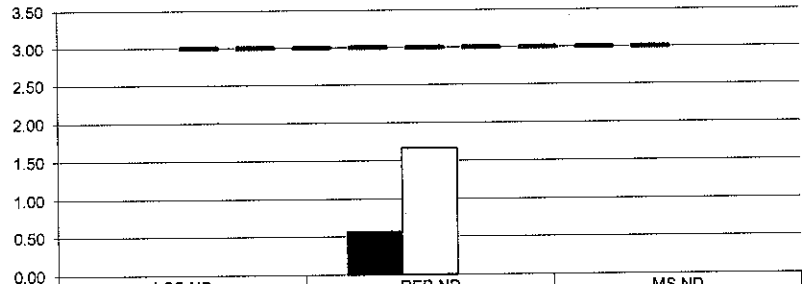
	U-234	U-238
Lower Error	87.85	82.47
Upper Error	127.91	122.86
%R	107.88	102.66
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	19.66	57.94	65.45
Upper Error	13.09	38.80	28.93
RPD	16.38	48.37	47.19
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	0.56	0.00
U-238	0.00	1.67	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07092	ThISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		111.41%	17.99%	100.00%	3.60%	4.94E+00	1.78E-01	5.51E+00	9.91E-01	Th-8b	1.04E+02	3.60E+00	1.06E-01
TH-230		113.50%	19.47%	100.00%	2.70%	5.38E+00	1.45E-01	6.11E+00	1.19E+00	Th-1b	2.35E+01	2.70E+00	5.08E-01
TH-232		109.55%	17.72%	100.00%	3.60%	4.94E+00	1.78E-01	5.42E+00	9.60E-01	Th-8b	1.04E+02	3.60E+00	1.06E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

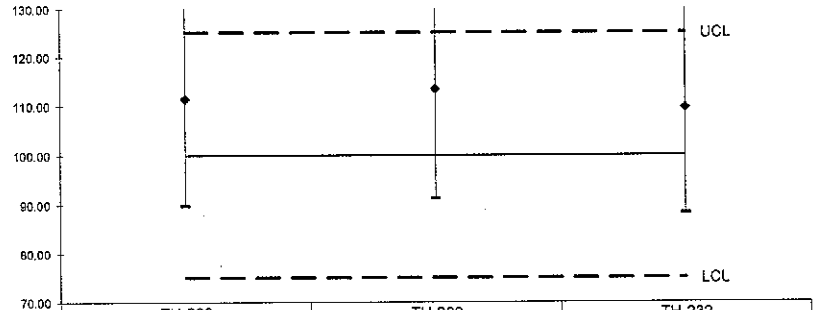
Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	0.57	21.41	2.52E-01	1.33E-01	3.12E-01	1.59E-01
TH-230	2.30	58.53	5.92E-01	2.21E-01	1.08E+00	3.54E-01
TH-232	0.57	16.46	4.57E-01	1.83E-01	5.39E-01	2.17E-01

QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.11	OK				NA	OK
1.14	OK				INV	OK
1.10	OK				OK	OK

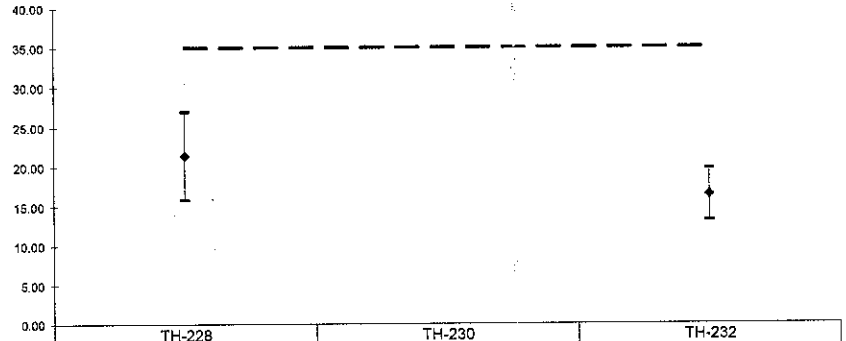
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07092	ThISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



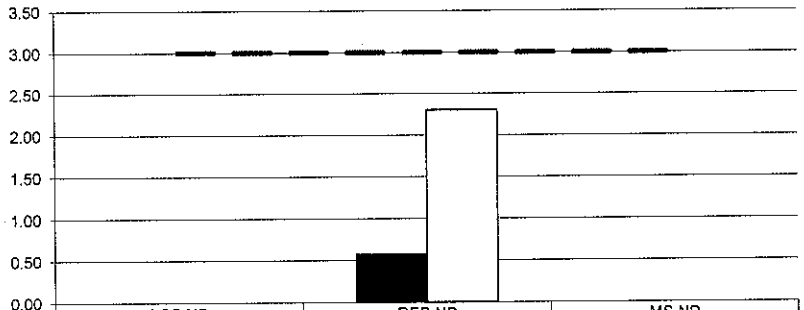
	TH-228	TH-230	TH-232
Lower Error	89.82	91.34	88.23
Upper Error	133.00	135.67	130.87
%R	111.41	113.50	109.55
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	26.96	68.58	19.77
Upper Error	15.86	48.47	13.16
RPD	21.41	58.53	16.46
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	0.57	0.00
TH-230	0.00	2.30	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07092	Gamma	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		102.35%	7.77%	100.00%	4.00%	1.37E+02	5.48E+00	1.40E+02	1.09E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		104.46%	10.34%	100.00%	4.00%	8.69E+01	3.48E+00	9.08E+01	9.39E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	Normalized Difference	MS Actual % Rec	Expected MS Result	Expected MS Uncert	Actual MS Result	Actual MS CSU	Sample Result	Sample CSU	Sample Aliquot	Standard ID	Standard ACT (dpm)	Standard Error %	Standard Added (g)

Replicate Sample

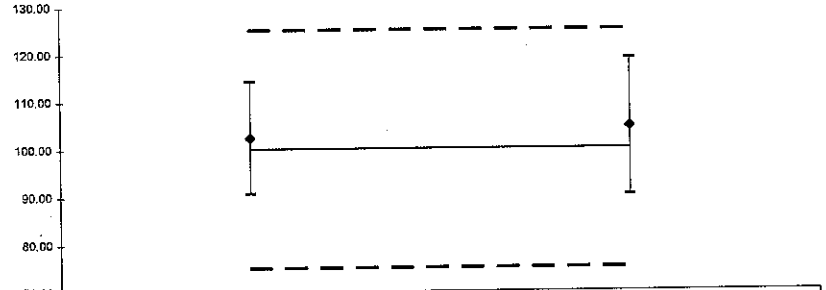
Analyte	Normalized Difference	RPD	Original Result	Original CSU	Replicate Result	Replicate CSU
BI-214	0.16	3.14	1.17E+00	3.22E-01	1.13E+00	3.12E-01
K-40	0.36	4.72	1.77E+01	3.29E+00	1.86E+01	3.31E+00
PB-214	1.21	24.19	1.24E+00	3.17E-01	9.74E-01	2.96E-01

QC Summary

LCS Relative Bias	LCS % R		MS % R	MS ND	Rep RPD	Rep ND
1.02	OK		<CS-137	BI-214>	OK	
1.04	OK		<CO-60	K-40>	OK	OK
				PB-214>	OK	OK

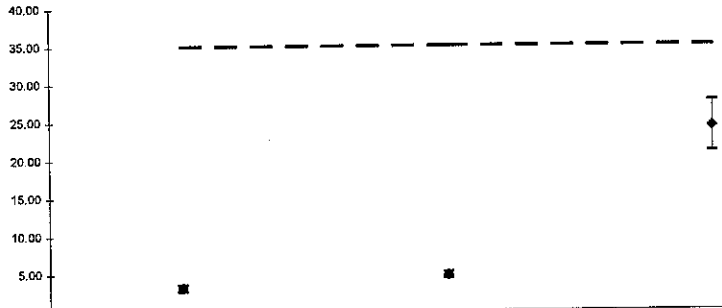
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07092	Gamma	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



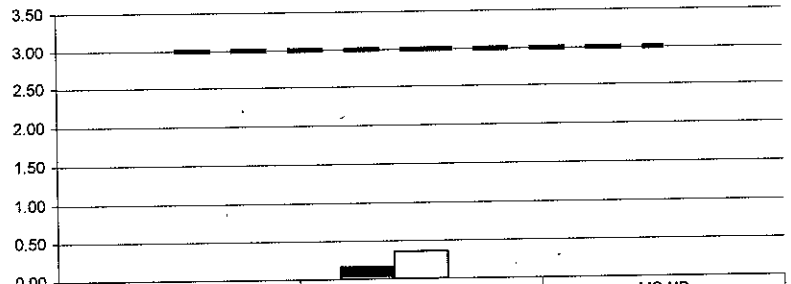
	CO-60	CS-137
Lower Error	90.58	90.11
Upper Error	114.12	118.80
%R	102.35	104.46
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	BI-214	K-40	PB-214
Lower Error	3.57	5.15	27.54
Upper Error	2.71	4.29	20.84
RPD	3.14	4.72	24.19
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.16	0.00
CS-137	0.00	0.36	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07092
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/23/15 08:40	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWolfe
7/23/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07092
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#	Date	Dept	User	Notes
1	07/23/15 08:40	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/24/15 18:05	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

7/24/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07092
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	07/23/15 08:40	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/24/15 18:05	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100 ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	07/27/15 05:11	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 .(Precipitated and filtered samples for Uranium)

7-27-15
JM

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-07092	
Analysis Code	Run
UUISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	7/23/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	7/23/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	7/23/2015
016574S	HCl - HF	6.5N - 0.04N	JDEMELAS	7/24/2015
016128D01	Hydrochloric Acid	0.5N	JDEMELAS	7/24/2015
016521S	Hydrochloric Acid	6.5N	JDEMELAS	7/24/2015
016546P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/24/2015
016614S	Hydrochloric Acid	8N	JDEMELAS	7/24/2015
016613S	HCl - NH4I	8N - 0.1M	JDEMELAS	7/24/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/24/2015
016581S	Carbon substrate	Solution	TSMITH	7/27/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/27/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	7/27/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/27/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	7/27/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
7/24	Daily Pulser	LAB	0505	1	NA	—
7/24	SGCCAL(37-48)	LAB	0522	2hr	NA	—
7/24	SGCCAL(42-60)	LAB	0755	2hr	NA	—
7/24	1507121A(1-4)	UCOR	0838	2hr	Am241	—
7/24	1507121A(1-4)	UCOR	0876	2hr	Am247	—
7/24	1507047B(1-7,6)	APMO	0877	2hr	UU730	—
7/24	1507070A(1-7)	Unitech	0877	2hr	UU730	—
7/24/15	1507121A(3-4)	UCOR	1030	2hr50	Th229	KB
7/24/15	1507089A(1-4,6)	UCOR	1031	2hr50	ISO-PU	KB
7/24/15	1507070A(1-5)	Unitech	1033	2hr50	ISO-PU	KB
7/24/15	1507089A(1-4)	UCOR	1130	2hr50	Pu242	KB
7/24/15	1507089A(1-4)	UCOR	1131	2hr50	Th229	KB
7/24/15	1507089A(1-4)	UCOR	1132	2hr50	UU	KB
7/24/15	1507089A(4)	UCOR	1132	2hr50	UUNT	KB
7/24/15	1507089A(1-2)	UCOR	1133	2hr50	ISO-TL	KB
7/24/15	1507089A(3-4)	UCOR	1326	2hr50	ISO-Th	KB
7/24/15	1507070A(1-4)	Unitech	1326	2hr50	Np	KB
7/24/15	1507089A(1-4)	UCOR	1327	2hr50	Np	KB
7/24/15	System Bkgd	Lab	1621	16.40hr	α	KB
7/27	Daily Pulser	LAB	0527	1	NA	—
7/27	1507089A(1-4)	UCOR	0545	2hr	Rak	—
7/27	1507089A(1-4)	UCOR	0545	2hr	Th ISO	—
7/27	1507089A(1-4)	UCOR	0546	2hr	Th229	—
7/27	1507070A(3,4)	Unitech	0845	2hr	Am241	—
7/27	1507092A(1-7)	APMO	0846	2hr	UU730	—
7/27	1507107A(1-5)	UCOR	0847	2hr	UU730	—
7/27	1507109A(1-5)	Searcy	0847	2hr	UU730	—
7/27	1507108A(1-8)	Searcy	0849	2hr	Pu730	—

ISO TH NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07092
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/23/15 08:40	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWolfe
7/23/15

EBERLINE SERVICES

Work Order Analysis Notes

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Internal Work Order	15-07092
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#	Date	Dept	User	Notes
1	07/23/15 08:40	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/24/15 18:07	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

7/24/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07092
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	07/23/15 08:40	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	07/24/15 18:07	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
3	07/27/15 05:15	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Thorium)

7-27-15
TMS

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-07092	
Analysis Code	Run
ThISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	7/23/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	7/23/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	7/23/2015
016546P	Hydrochloric Acid	Reagent Grade	JDEMELAS	7/24/2015
016403P	Nitric Acid	Reagent Grade	JDEMELAS	7/24/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	7/24/2015
016614S	Hydrochloric Acid	8N	JDEMELAS	7/24/2015
016611S	Nitric Acid	8N	JDEMELAS	7/24/2015
016581S	Carbon substrate	Solution	TSMITH	7/27/2015
016288S	Cerrium Carrier	0.1mg/ml	TSMITH	7/27/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	7/27/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	7/27/2015

Alpha #3

Date	Sample #	Client	Time/Vol	CT/Dil	Analyte	Type
7/24	Daily Pulse	LAB	0501	1	Wt	C
7/24	SGCCAL(72-48)	LAB	0522	2hr50	Wt	C
7/24	SGCCAL(42-60)	LAB	0755	2hr50	Wt	C
7/24	150724A(1-4)	UCON	0838	2hr50	Am241	C
7/24	150724A(1-4)	UCON	0876	2hr50	Am241	—
7/24	150704AA(1-7,6)	AMO	0877	2hr50	U+Th	—
7/24	150707QA(1-7)	Unitech	0877	2hr50	U+Th	—
7/24/15	150712IA(3-4)	UCOR	1030	2hr50	Th229	KB
7/24/15	150708QA(1-4,6)	UCOR	1031	2hr50	ISO-PU	KB
7/24/15	150707QA(1-5)	Unitech	1033	2hr50	ISO-PU	KB
7/24/15	150708QA(1-4)	UCOR	1130	2hr50	Pu242	KB
7/24/15	150708QA(1-4)	UCOR	1131	2hr50	Th229	KB
7/24/15	150708QA(1-4)	UCOR	1132	2hr50	U	KB
7/24/15	150708QA(4)	UCOR	1132	2hr50	U NAT	KB
7/24/15	150708QA(1-2)	UCOR	1133	2hr50	ISO-TH	KB
7/24/15	150708QA(3-4)	UCOR	1326	2hr50	ISO-TH	KB
7/24/15	150707QA(1-4)	Unitech	1726	2hr50	Np	KB
7/24/15	150708QA(1-4)	UCOR	1727	2hr50	Np	KB
7/24/15	System Blkgd	Lab	1621	14.40hr	α	KB
7/27	Daily Pulse	LAB	0527	1	Wt	—
7/27	150708QA(1-4)	UCon	0545	2hr50	Pu	—
7/27	150708QA(1-4)	UCon	0545	2hr50	TH230	—
7/27	150708QA(1-4)	UCon	0546	2hr50	TH229	C
7/27	150707QA(2-4)	Unitech	0847	2hr50	Am241	C
7/27	150704QA(1-7)	AMO	0846	2hr50	U+Th	—
7/27	150710TA(1-5)	UCOR	0847	2hr50	U+Th	—
7/27	150710QA(1-5)	Searcy	0847	2hr50	U+Th	—
7/27	150710QA(1-8)	Searcy	0849	2hr50	Pu+Th	—
7/27/15	150710QA(9-10)	Searcy	1143	2hr50	PU	KB
7/27/15	150709QA(2)	UCOR	1144	2hr50	Th229	KB
7/27/15	150709QA(2)	UCOR	1147	2hr50	ISO-TH	KB
7/27/15	150709QA(1-7)	AMO Env.	1148	2hr50	ISO-TH	KB
7/24/15	150710QA(1-5)	SEAREY	1150	2hr50	ISO-TH	KB

GAMMA NOTES

GE 2

DATE	Sample #	Client	Load Time	Ct. Time	Analysis	Tech
8/3/15	1507173-09	TBE	1341	15mins	Ba	[illegible]
814	CAG1401	LAB	0509	15	✓	C
814	[illegible]	LAB	0532	15	✓	C
814	1507059-05	BPA	0552	7L	✓	—
814	1507092-02	AMO	0917	7L	✓	—

DATE	Sample #	Client	Load Time	CT. Time	Analysis	Tech
7/30/15	1507103-01	UCOR	1120	15min	Ba	KCB
7/31	CAT 14	LVB	0519	15	"	"
7/31	Daily	LVB	0578	15	"	"
7/31/15	1507124-01	Test America	1047	15 mins	Ba	KCB
7/31/15	1507124-06	Test America	1104	15 mins	Ba	KCB
7/31/15	1507133-01	Grace	1124	15 mins	Ba	KCB
8/1/15	System Blank	Lab	0713	24 hr	"	KCB
8/1	CAT 14	LVB	0529	15	"	"
8/1	Daily	LVB	0536	15	"	"
8/1	1507047-05	AMO	0615	IL	"	"
8/1	1507047-08	AMO	0717	IL	"	"
8/1	1507047-11	AMO	0825	IL	"	"
8/3/15	1507142-01	ND	1034	15 mins	Ba	KCB
8/3/15	1507142-02	ND	1049	15 mins	Ba	KCB
8/3/15	1507141-01	UCOR	1105	15 mins	Ba	KCB
8/3/15	1507141-02	UCOR	1120	15 mins	Ba	KCB
8/3/15	1507127-01	Accutest	1136	15 mins	Ba	KCB
8/3/15	1507127-02	Accutest	1152	15 mins	Ba	KCB
8/3/15	1507126-01	Accutest	1207	15 mins	Ba	KCB
8/3/15	1507126-02	Accutest	1223	15 mins	Ba	KCB
8/3/15	1507126-06	Accutest	1239	15 mins	Ba	KCB
8/3/15	1507137-02	Test America	1254	15 min	Ba	KCB
8/7/15	1507177-02	TBE	1710	15	Ba	"
8/7	1507177-06	TBE	1725	15	Ba	"
8/3/15	1507173-09	TBE	1341	15 mins	Ba	KCB
8/3/15	1507173-11	TBE	1357	15 mins	Ba	KCB
8/4	CAT 14	LVB	0509	15	"	"
8/4	Daily	LVB	0532	15	"	"
8/4	1507079-03	MPT	0552	IL	"	"
8/4	1507079-04	MPT	0652	IL	"	"
8/4	1507092-01	AMO	0917	Ba	"	"

GE3

DATE	SAmple #	Client	Load Time	Ct. Time	Analysis	Tech
814	CAS 1402	LAB	0509	15	✓	C
814	Daily	LAB	0572	15	✓	—
8/4/15	1507183-03	Access	1120	15 mins	Ba	KB
8/4/15	1507148-03	Accutest	1138	15 mins	Ba	KB
8/4/15	1507175-01	TBE	1157	15 mins	Ba	KB
8/4/15	1507175-06	TBE	1215	15 mins	Ba	KB
8/4/15	1507144-02	UCON	1238	15 mins	Ba	KB
8/4/15	1507174-07	TBE	1255	15 mins	Ba	KB
814	1507174-08	TBE	1712	15	Ba	—
814	1507174-13	TBE	1728	15	Ba	—
815	CAS 1402	LAB	0523	15	✓	C
815	Daily	LAB	0554	15	✓	
8/5/15	1507171-03	UCON	1103	15min	Ba	KB
8/5/15	1508015-06	TexCom	1159	30 mins	✓	KB
8/5/15	1508015-08	TexCom	1231	30 mins	✓	KB
8/5/15	1508015-11	TexCom	1304	30mins	✓	KB
8/5/15	1508015-16	TexCom	1335	30mins	✓	KB
8/5/15	1508015-19	TexCom	1407	30mins	✓	KB
8/5/15	1508016-06	TexCom	1439	30mins	✓	KB
8/5/15	1508016-08	TexCom	1511	30mins	✓	KB
8/5/15	1508017-01	SQ Env.	1543	30mins	✓	KB
816	CAS 1402	LAB	0517	15	✓	C
816	Daily	LAB	0546	15	✓	C
816	1507092-07	AMO	0608	[illegible]	✓	C

GE 2

DATE	Sample #	Client	Load Time	Ct. Time	Analysis	Tech
8/3/15	1507173-09	TBE	1341	15mins	Ba	KB
8/4	CFS 1401	LAB	0503	15	✓	C
8/4	Daily B	LAB	0532	15	✓	—
8/4	1507059-05	BRA	0552	7L	✓	—
8/4	1507092-02	AMO	0917	7L	✓	—
8/4	1507109-02	~~[illegible]~~ 8/4 Searcy	1018	7L	✓	—
8/4/15	1507183-02	Access	1119	15mins	Ba	KB
8/4/15	1507148-02	Accutest	1138	15 mins	Ba	KB
8/4/15	1507148-07	Accutest	1157	15mins	Ba	KB
8/4/15	1507175-05	TBE	1215	15 min	Ba	KB
8/4/15	1507144-01	UCON	1238	15 mins	Ba	KB
8/4/15	1507174-02	TBE	1255	15 mins	Ba	KB
8/4	1507174-07	TBE	1312	15	Ba	—
8/4	1507174-12	TBE	1328	15	Ba	—
8/4/15	1507174-17	TBE	1345	15mins	Ba	KB
8/5	CFS 1401	LAB	0523	15	✓	C
8/5	Daily B	LAB	0554	15	✓	
8/5/15	1507171-02	UCON	1102	15min	Ba	KB
8/5/15	1508015-05	TexCom	1159	30mins	✓	KB
8/5/15	1508015-07	TexCom	1231	30min	✓	KB
8/5/15	1508015-10	TexCom	1304	30 mins	✓	KB
8/5/15	1508015-15	TexCom	1338	30 mins	✓	KB
8/5/15	1508015-18	TexCom	1407	30min	✓	KB
8/5/15	1508016-05	TexCom	1439	30min	✓	KB
8/5/15	1508016-07	TexCom	1511	30min	✓	KB
8/5/15	1508017-03	SQ Env.	1542	30mins	✓	KB
8/5/15	1508017-04	SQ Env.	1613	30min	✓	KB
8/6	CFS 1401	LAB	0517	15	✓	C
8/6	Daily B	LAB	0546	15	✓	C
8/6	1507092-06	AMO	0608	7L	✓	C

GE 1

DATE	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/4/15	1507193-01	Access	1119	15 mins	Ba	KB
8/4/15	1507148-01	Accutest	1139	15 mins	Ba	KB
8/4/15	1507148-06	Accutest	1157	15 mins	Ba	KB
8/4/15	1507175-04	TBE	1215	15 mins	Ba	KB
8/4/15	1507175-09	TBE	1233	15 min	Ba	KB
8/4/15	1507174-01	TBE	1255	15 min	Ba	KB
8/4	1507174-06	TBE	1312	15	Ba	—
8/4	1507174-11	TBE	1328	15	Ba	—
8/4/15	1507174-16	TBE	1345	15 min	Ba	KB
8/5	CCV14	LAS	0523	15	✓	✓
8/5	DailyB	LAS	0554	15	✓	✓
8/5/15	1507171-01	Ucon	1102	15 min	Ba	KB
8/5/15	1508015-03	TexCom	1159	30 mins	✓	KB
8/5/15	1508015-04	TexCom	1231	30 min	✓	KB
8/5/15	1508015-09	TexCom	1304	30 mins	✓	KB
8/5/15	1508015-13	TexCom	1335	30 mins	✓	KB
8/5/15	1508015-17	TexCom	1402	30 mins	✓	KB
8/5/15	1508016-03	TexCom	1439	30 mins	✓	KB
8/5/15	1508016-04	TexCom	1510	30 min	✓	KB
8/5/15	1508016-09	TexCom	1542	30 min	✓	KB
8/6	CCV14	LAS	0517	15	✓	✓
8/6	DailyA	LAS	0546	15	✓	✓
8/6	1507082-05	Apex	0608	15	✓	✓

DATE	SAmple #	Client	Lab Time	CT Time	Analysis	Tech
8/3	GW 14	LAS	0929	15	✓	C
8/3	Daily	LAS	0956	15	✓	C
8/3	150704703	Apex	0615	2L	✓	C
8/3	150704-04	Apex	0719	2L	✓	
8/3	150717-02	UCOR	0826	5hr	✓	C
8/3	150717-01	UCOR	1728	3hr	✓	C
8/4	GW 14	LAS	0905	15	✓	C
8/4	Daily	LAS	0952	15	✓	C
8/4	GW 14	LAS	0952	15	✓	C
8/4/15	150718-04	Access	1120	15 mins	Ba	ICB
8/4/15	150714-04	Accutest	1134	15 mins	Ba	ICB
8/4/15	150717-02	TBE	1157	15 mins	Ba	ICB
8/4/15	150717-07	TBE	1216	15 min	Ba	ICB
8/4/15	150714-03	UCOR	1228	15mins	Ba	ICB
8/4/15	150717-04	TBE	1208	15 mins	Ba	ICB
8/4	150717-09	TBE	1732	15	Ba	C
8/4	150717-14	TBE	1328	15	Ba	C
8/5	GW 14	LAS	0923	15	✓	C
8/5	Daily	LAS	0954	15	✓	C
8/5/15	150717-04	UCOR	1103	15min	Ba	ICB
8/5/15	150801-01	TexCom	1206	30 mins	Y	ICB
8/5/15	150801-02	TexCom	1231	30 min	Y	ICB
8/5/15	150801-12	TexCom	1704	30min	Y	ICB
8/5/15	150801-14	TexCom	1735	30mins	Y	ICB
8/5/15	150801-20	TexCom	1408	30min	Y	ICB
8/5/15	150801-01	TexCom	1440	30 mins	Y	ICB
8/5/15	150801-02	TexCom	1510	30 min	Y	ICB
8/5/15	150801-02	SQ Gw.	1543	30 mins	Y	ICB
8/6	GW 14	LAS	0517	15	✓	C
8/6	Daily	LAS	0546	15	✓	C
8/6	150709-03	Apex	0608	2L	✓	C
8/6	150709-04	Apex	0715	2L	✓	C

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

15-07092
UUISO
Run 1

Work Order	15-07092
Analysis Code	UUISO
Run	1
Date Received	7/15/2015
Lab Deadline	8/5/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.69
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/15/15 00:00	1.0000E+00
02	MBL	BLANK		07/15/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-19 061-063	32	07/08/15 10:18	1.0548E+00
04	DO	FEEBRIS1D-19 061-063	32	07/08/15 10:18	1.0548E+00
05	TRG	DUPLICATE 3	33	07/08/15 10:18	1.1190E+00
06	TRG	FEEBRIS1D-10 046-049	34	07/09/15 12:10	1.1550E+00
07	TRG	FEEBRIS1D-10 074-076	39	07/12/15 10:41	1.1505E+00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6034	11.3		0.00								
02	MBL	0.6038	11.3		0.00								
03	DUP	0.6038	11.3		0.00								
04	DO	0.6039	11.3		0.00								
05	TRG	0.6021	11.3		0.00								
06	TRG	0.6025	11.3		0.00								
07	TRG	0.6027	11.3		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			07/23/15 07:15	JWOLFE				
02	MBL			07/23/15 07:15	JWOLFE				
03	DUP			07/23/15 07:15	JWOLFE				
04	DO	07/16/15 08:37	KSALLINGS	07/23/15 07:15	JWOLFE				
05	TRG	07/16/15 08:37	KSALLINGS	07/23/15 07:15	JWOLFE				
06	TRG	07/16/15 08:37	KSALLINGS	07/23/15 07:15	JWOLFE				
07	TRG	07/16/15 08:37	KSALLINGS	07/23/15 07:15	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	8.67E+00	1.28E+00	9.88E-02	8.04E+00	107.88	OK		OK	
02	U-234	MBL	BLANK	pCi/g	6.63E-02	6.32E-02	6.80E-02					OK	OK
03	U-234	DUP	FEEBRIS1D-19 061-063	pCi/g	4.71E-01	1.86E-01	8.15E-02				NA	OK	
04	U-234	DO	FEEBRIS1D-19 061-063	pCi/g	4.00E-01	1.58E-01	8.56E-02					OK	
05	U-234	TRG	DUPLICATE 3	pCi/g	6.57E-01	2.06E-01	5.98E-02					OK	
06	U-234	TRG	FEEBRIS1D-10 046-049	pCi/g	2.09E-01	1.29E-01	8.05E-02					OK	
07	U-234	TRG	FEEBRIS1D-10 074-076	pCi/g	3.76E-01	1.58E-01	1.05E-01					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Run	Analysis Code	Eberline Services Work Order	Client
1	UUISO	15-07092	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	07/15/15 00:00	1.00E+00	97.77	0.00	0.00			
02	U-234	MBL	07/15/15 00:00	1.00E+00	103.34	0.00	0.00			
03	U-234	DUP	07/08/15 10:18	1.05E+00	86.46	0.00	0.00			
04	U-234	DO	07/08/15 10:18	1.05E+00	109.11	0.00	0.00			
05	U-234	TRG	07/08/15 10:18	1.12E+00	85.58	0.00	0.00			
06	U-234	TRG	07/09/15 12:10	1.16E+00	64.20	0.00	0.00			
07	U-234	TRG	07/12/15 10:41	1.15E+00	83.46	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07092	UUISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	07/27/15 08:46		A_Spec	Alpha_035	170	5.26 E+02	0.00 E+00	16.5
02	U-234	MBL	07/27/15 08:46		A_Spec	Alpha_036	170	4.66 E+00	2.00 E-03	18.1
03	U-234	DUP	07/27/15 08:46		A_Spec	Alpha_037	170	2.77 E+01	2.00 E-03	17.1
04	U-234	DO	07/27/15 08:46		A_Spec	Alpha_038	170	2.80 E+01	0.00 E+00	16.2
05	U-234	TRG	07/27/15 08:46		A_Spec	Alpha_039	170	4.58 E+01	1.00 E-03	19.3
06	U-234	TRG	07/27/15 08:46		A_Spec	Alpha_040	170	1.08 E+01	1.00 E-03	18.6
07	U-234	TRG	07/27/15 08:46		A_Spec	Alpha_041	170	2.55 E+01	9.00 E-03	18.7

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	8.04E+00	1.20E+00	9.84E-02	7.83E+00	102.66	OK		OK	
02	U-238	MBL	BLANK	pCi/g	1.39E-01	8.93E-02	5.91E-02					OK	OK
03	U-238	DUP	FEEBRIS1D-19 061-063	pCi/g	5.51E-01	2.03E-01	8.90E-02				NA	OK	
04	U-238	DO	FEEBRIS1D-19 061-063	pCi/g	3.36E-01	1.42E-01	6.80E-02					OK	
05	U-238	TRG	DUPLICATE 3	pCi/g	5.78E-01	1.92E-01	7.49E-02					OK	
06	U-238	TRG	FEEBRIS1D-10 046-049	pCi/g	4.58E-01	1.95E-01	8.02E-02					OK	
07	U-238	TRG	FEEBRIS1D-10 074-076	pCi/g	3.32E-01	1.54E-01	1.36E-01					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Run	Analysis Code	Eberline Services Work Order	Client
1	UUISO	15-07092	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	07/15/15 00:00	1.00E+00	97.77	0.00	0.00			
02	U-238	MBL	07/15/15 00:00	1.00E+00	103.34	0.00	0.00			
03	U-238	DUP	07/08/15 10:18	1.05E+00	86.46	0.00	0.00			
04	U-238	DO	07/08/15 10:18	1.05E+00	109.11	0.00	0.00			
05	U-238	TRG	07/08/15 10:18	1.12E+00	85.58	0.00	0.00			
06	U-238	TRG	07/09/15 12:10	1.16E+00	64.20	0.00	0.00			
07	U-238	TRG	07/12/15 10:41	1.15E+00	83.46	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	07/27/15 08:46		A_Spec	Alpha_035	170	4.90 E+02	0.00 E+00	16.5
02	U-238	MBL	07/27/15 08:46		A_Spec	Alpha_036	170	9.83 E+00	1.00 E-03	18.1
03	U-238	DUP	07/27/15 08:46		A_Spec	Alpha_037	170	3.25 E+01	3.00 E-03	17.1
04	U-238	DO	07/27/15 08:46		A_Spec	Alpha_038	170	2.37 E+01	2.00 E-03	16.2
05	U-238	TRG	07/27/15 08:46		A_Spec	Alpha_039	170	4.05 E+01	3.00 E-03	19.3
06	U-238	TRG	07/27/15 08:46		A_Spec	Alpha_040	170	2.38 E+01	1.00 E-03	18.6
07	U-238	TRG	07/27/15 08:46		A_Spec	Alpha_041	170	2.26 E+01	2.00 E-02	18.7

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	7.05E-01	2.51E-01	9.72E-02					OK	
02	U-235	MBL	BLANK	pCi/g	2.28E-01	1.31E-01	1.05E-01					OK	OK
03	U-235	DUP	FEEBRIS1D-19 061-063	pCi/g	1.02E-01	9.32E-02	8.77E-02				NA	OK	
04	U-235	DO	FEEBRIS1D-19 061-063	pCi/g	1.64E-01	1.11E-01	9.94E-02					OK	
05	U-235	TRG	DUPLICATE 3	pCi/g	1.91E-01	1.17E-01	7.38E-02					OK	
06	U-235	TRG	FEEBRIS1D-10 046-049	pCi/g	6.33E-02	8.20E-02	1.14E-01					OK	
07	U-235	TRG	FEEBRIS1D-10 074-076	pCi/g	1.55E-01	1.09E-01	9.55E-02					OK	

Work Order: 15-07092-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	07/15/15 00:00	1.00E+00	97.77	0.00	0.00			
02	U-235	MBL	07/15/15 00:00	1.00E+00	103.34	0.00	0.00			
03	U-235	DUP	07/08/15 10:18	1.05E+00	86.46	0.00	0.00			
04	U-235	DO	07/08/15 10:18	1.05E+00	109.11	0.00	0.00			
05	U-235	TRG	07/08/15 10:18	1.12E+00	85.58	0.00	0.00			
06	U-235	TRG	07/09/15 12:10	1.16E+00	64.20	0.00	0.00			
07	U-235	TRG	07/12/15 10:41	1.15E+00	83.46	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	07/27/15 08:46		A_Spec	Alpha_035	170	3.47 E+01	2.00 E-03	16.5
02	U-235	MBL	07/27/15 08:46		A_Spec	Alpha_036	170	1.30 E+01	0.00 E+00	18.1
03	U-235	DUP	07/27/15 08:46		A_Spec	Alpha_037	170	4.83 E+00	1.00 E-03	17.1
04	U-235	DO	07/27/15 08:46		A_Spec	Alpha_038	170	9.32 E+00	4.00 E-03	16.2
05	U-235	TRG	07/27/15 08:46		A_Spec	Alpha_039	170	1.08 E+01	1.00 E-03	19.3
06	U-235	TRG	07/27/15 08:46		A_Spec	Alpha_040	170	2.66 E+00	2.00 E-03	18.6
07	U-235	TRG	07/27/15 08:46		A_Spec	Alpha_041	170	8.49 E+00	3.00 E-03	18.7

Count Room Report
Client: AMO Environmental Decisio

15-07092-UUISO-1 (pCi/g) in SO
Tracer ID: U-10a

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/15/15 00:00	1.0000	0.6034	11.2775		0.00		
02	MBL	BLANK	07/15/15 00:00	1.0000	0.6038	11.2850		0.00		
03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	1.0548	0.6038	11.2850		0.00		
04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	1.0548	0.6039	11.2869		0.00		
05	TRG	DUPLICATE 3	07/08/15 10:18	1.1190	0.6021	11.2532		0.00		
06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	1.1550	0.6025	11.2607		0.00		
07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	1.1505	0.6027	11.2645		0.00		

00078

Eberline Services
Oak Ridge Laboratory

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-07092	1	UUISO	7/23/2015 7:11	JWOLFE		

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
U-234	U-8a	35.240	7/23/2015	0.500	0.5063				8.04	0.289	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	7/23/2015	0.500	0.5063				7.83	0.282	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	U-232	U-10a	18.690	7/23/2015	0.6034	0.6500
02	U-232	U-10a	18.690	7/23/2015	0.6038	0.6500
03	U-232	U-10a	18.690	7/23/2015	0.6038	0.6500
04	U-232	U-10a	18.690	7/23/2015	0.6039	0.6500
05	U-232	U-10a	18.690	7/23/2015	0.6021	0.6500
06	U-232	U-10a	18.690	7/23/2015	0.6025	0.6500
07	U-232	U-10a	18.690	7/23/2015	0.6027	0.6500

Balance Printer Tapes

Tracer

0.6034 g
0.6038 g
0.6038 g
0.6039 g
0.6021 g
0.6025 g
0.6027 g

LCS

0.5063 g

Matrix Spike

61599

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07092	1	UUISO	grams	8/5/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-19 061-063	DUP		1	11.38	8.79E-02	1.2000E+01	1.0548E+00				
04	FEEBRIS1D-19 061-063	DO		1	11.38	8.79E-02	1.2000E+01	1.0548E+00				
05	DUPLICATE 3	TRG		1	13.40	7.46E-02	1.5000E+01	1.1190E+00				
06	FEEBRIS1D-10 046-049	TRG		1	12.99	7.70E-02	1.5000E+01	1.1550E+00				
07	FEEBRIS1D-10 074-076	TRG		1	13.04	7.67E-02	1.5000E+01	1.1505E+00				

Comments	

Technician: JWolfe Date: 7/23/15

EBERLINE SERVICES	Internal Work Order	15-07092
	Fraction	> 03 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.79**	ml	from the original sample and diluted it to	**100**	ml	0.0879
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0879**
Dilution Factor	**11.37656428**

Diluted by: JW

Date: 7/23/15

00081

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-07092
Fraction	**> 04 <**
Analysis Code	**UUISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.79**	ml	from the original sample and diluted it to	**100**	ml	0.0879
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0879**
Dilution Factor	**11.37656428**

Diluted by: JW

Date: 7/23/15

00082

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07092
	Fraction	**> 05 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.46**	ml	from the original sample and diluted it to	**100**	ml	0.0746
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0746**
Dilution Factor	**13.40482574**

9923

Diluted by: JW Date: 7/23/15

EBERLINE SERVICES	Internal Work Order	15-07092
	Fraction	> 06 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.7**	ml	from the original sample and diluted it to	**100**	ml	0.0770
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.077**
Dilution Factor	**12.98701299**

Diluted by: JW

Date: 7/23/15

00084

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-07092
Fraction	**> 07 <**
Analysis Code	**UUISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.67**	ml	from the original sample and diluted it to	**100**	ml	0.0767
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0767**
Dilution Factor	**13.03780965**

Diluted by: JW Date: 7/23/15

6565

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 7/16/2015 8:59 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-07092	grams	8/5/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-19 061-063	102.6400	111.4300		8.7900		
05	DUPLICATE 3	112.0700	119.5300		7.4600		
06	FEEBRIS1D-10 046-049	111.6300	119.3300		7.7000		
07	FEEBRIS1D-10 074-076	109.6600	117.3300		7.6700		

Comments

Technician: Kenny Sallings Date: 7/16/15

Analysis: UUISO

00050

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/16/2015 8:37 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07092	8/5/2015	7/15/2015	7/16/2015	7/17/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-19 061-063	28.8700	1711.3000	1410.2200	1682.4300	1381.3500	17.90%	82.10%			
05	DUPLICATE 3	28.9000	1359.3400	1127.1200	1330.4400	1098.2200	17.45%	82.55%			
06	FEEBRIS1D-10 046-049	43.4500	1634.0000	1294.8400	1590.5500	1251.3900	21.32%	78.68%			
07	FEEBRIS1D-10 074-076	29.1400	1344.7200	999.6600	1315.5800	970.5200	26.23%	73.77%			

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

Technician: Kenny Sallings Date:

Apex-Alpha™

LCB 7/27/15

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_035
Chamber Serial Number: 04026477A
Detector Serial Number: 58771
Env. Background: System Bkgd 124196
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 6:15:51 AM
Acquisition Date/Time: 7/27/2015 8:46:33 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1611 +/- 0.0099
Counting Efficiency: 0.1647 +/- 0.0029 on 10/25/2014 2:34:10 PM
Chem. Recovery Factor: 0.9777 +/- 0.0627

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 1.000743 +/- 0.082158
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

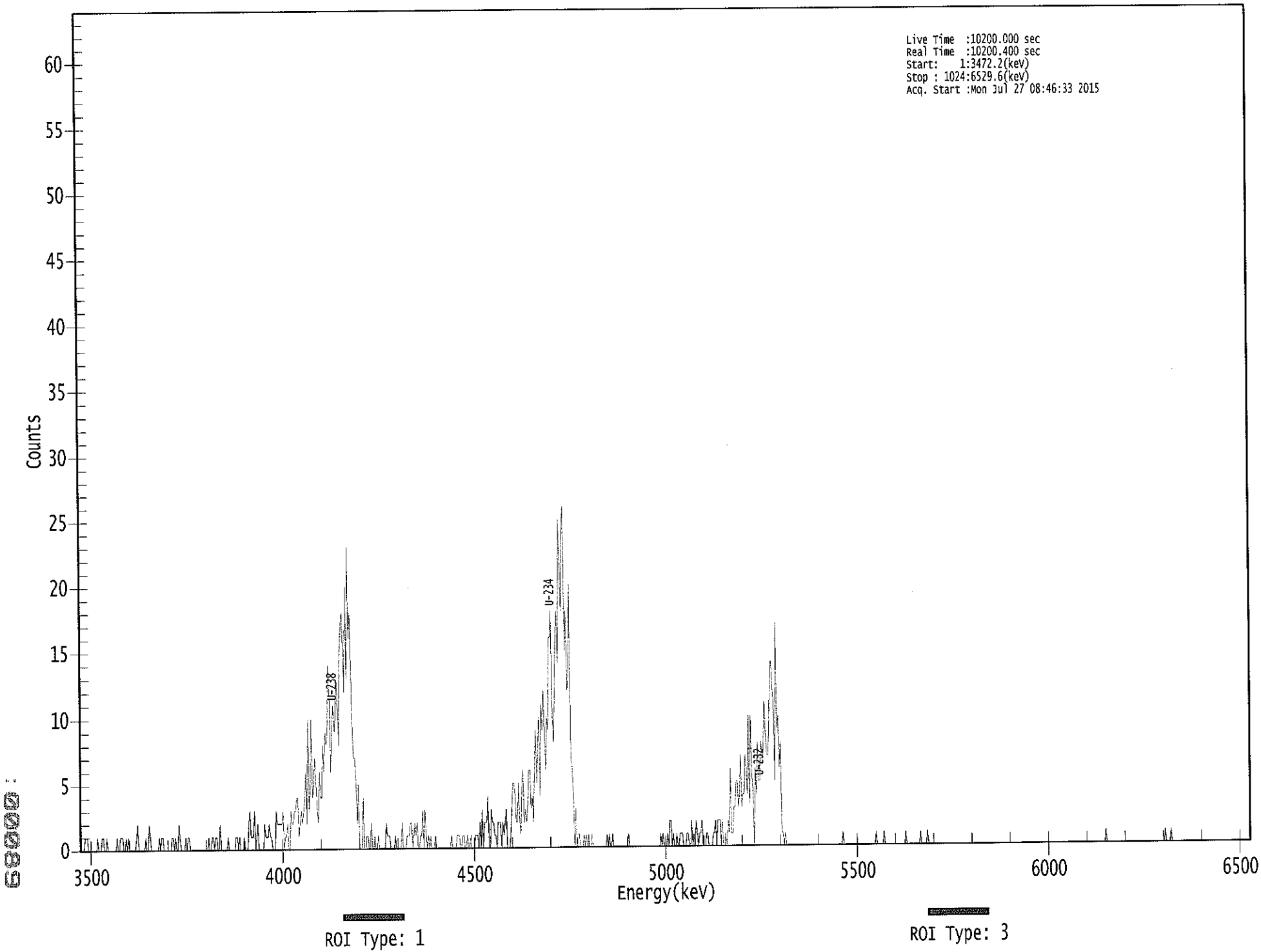
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.248	306.66	11.20	0.34	0.00E+000	9.2
U-234		4.705	526.00	8.55	0.00	0.00E+000	31.6
U-235		4.378	34.66	33.48	0.34	0.00E+000	3.7
U-238		4.132	490.00	8.86	0.00	0.00E+000	32.9

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.979	5302.50*	5.05E+000 +/- 6.10E-001	7.88E-002 +/- 9.52E-003
U-234	0.977	4761.50*	8.67E+000 +/- 1.28E+000	9.88E-002 +/- 1.19E-002
U-235	1.000	4385.50*	7.05E-001 +/- 2.51E-001	9.72E-002 +/- 1.17E-002
U-238	0.981	4184.40*	8.04E+000 +/- 1.20E+000	9.84E-002 +/- 1.19E-002

0000124134.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	1	1	1	0
9:	0	0	0	0	0	0	0	1
17:	0	0	0	1	1	0	0	1
25:	0	0	0	0	0	0	0	0
33:	1	0	0	1	1	1	0	0
41:	1	0	1	0	0	0	0	0
49:	0	1	2	0	0	0	0	0
57:	0	1	0	0	2	1	0	0
65:	0	0	0	0	0	1	0	1
73:	1	0	0	0	0	0	0	0
81:	1	1	0	1	0	0	2	1
89:	0	0	0	0	1	0	1	1
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	1	0	0	1	1	0	1	1
121:	0	0	2	0	0	0	0	0
129:	0	1	0	0	0	0	0	0
137:	1	1	0	1	0	0	0	1
145:	0	0	0	2	3	1	1	1
153:	3	0	1	2	0	0	0	0
161:	0	2	1	1	1	2	1	1
169:	0	0	0	3	2	2	2	2
177:	2	3	0	1	1	2	0	0
185:	3	2	2	3	3	4	4	1
193:	2	3	2	3	4	6	2	10
201:	3	5	10	4	5	7	5	3
209:	2	6	4	4	8	6	9	8
217:	9	14	12	6	9	11	9	10
225:	13	11	8	15	17	18	15	12
233:	20	13	23	16	18	14	9	7
241:	7	5	2	5	0	0	0	4
249:	0	0	1	1	0	0	2	0
257:	0	1	0	0	1	0	0	0
265:	0	0	0	2	1	1	1	0
273:	0	0	0	1	0	0	0	0
281:	0	2	0	0	0	1	1	1
289:	2	2	0	1	2	1	2	0
297:	0	1	1	3	0	3	1	0
305:	1	0	1	0	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	1	0	0	0
329:	0	1	1	1	0	0	1	1
337:	0	0	1	0	0	1	0	0
345:	0	1	1	1	0	2	0	3
353:	0	2	2	2	4	0	0	3
361:	2	2	1	1	0	2	2	2

369:	0	2	1	2	3	0	0	0

Sample Title: 01

Channel								
377:	1	3	5	5	4	2	2	5
385:	2	1	5	6	2	3	2	3
393:	6	6	3	4	2	6	9	5
401:	8	10	4	11	9	12	9	6
409:	10	9	16	16	18	10	8	12
417:	16	18	14	25	22	18	24	26
425:	15	18	12	13	20	7	6	4
433:	0	3	0	1	1	0	0	0
441:	1	0	1	0	1	0	0	1
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	1	0	1	0
465:	0	1	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	1
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	1	0	1	0	0
513:	0	1	0	2	2	0	1	0
521:	0	1	0	0	1	1	1	0
529:	0	0	1	1	0	0	2	0
537:	1	0	2	1	0	1	1	2
545:	0	0	0	1	1	0	0	0
553:	0	1	1	2	0	2	2	2
561:	0	2	0	0	1	0	2	1
569:	6	1	1	3	3	5	5	3
577:	4	7	3	4	4	7	6	4
585:	10	3	10	6	4	0	6	4
593:	8	5	5	8	7	7	11	9
601:	7	7	9	14	14	12	11	5
609:	17	9	10	6	8	1	1	0
617:	1	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	1	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	1
697:	0	0	0	0	0	0	1	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	1	0	0	0	0	0	0
729:	0	0	0	0	0	0	1	0
737:	0	0	0	0	1	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	1	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	1	0	0	0
953:	0	1	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

IDS 7/27/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 124197
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 6:15:51 AM
Acquisition Date/Time: 7/27/2015 8:46:35 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1866 +/- 0.0108
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 1.0334 +/- 0.0625

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

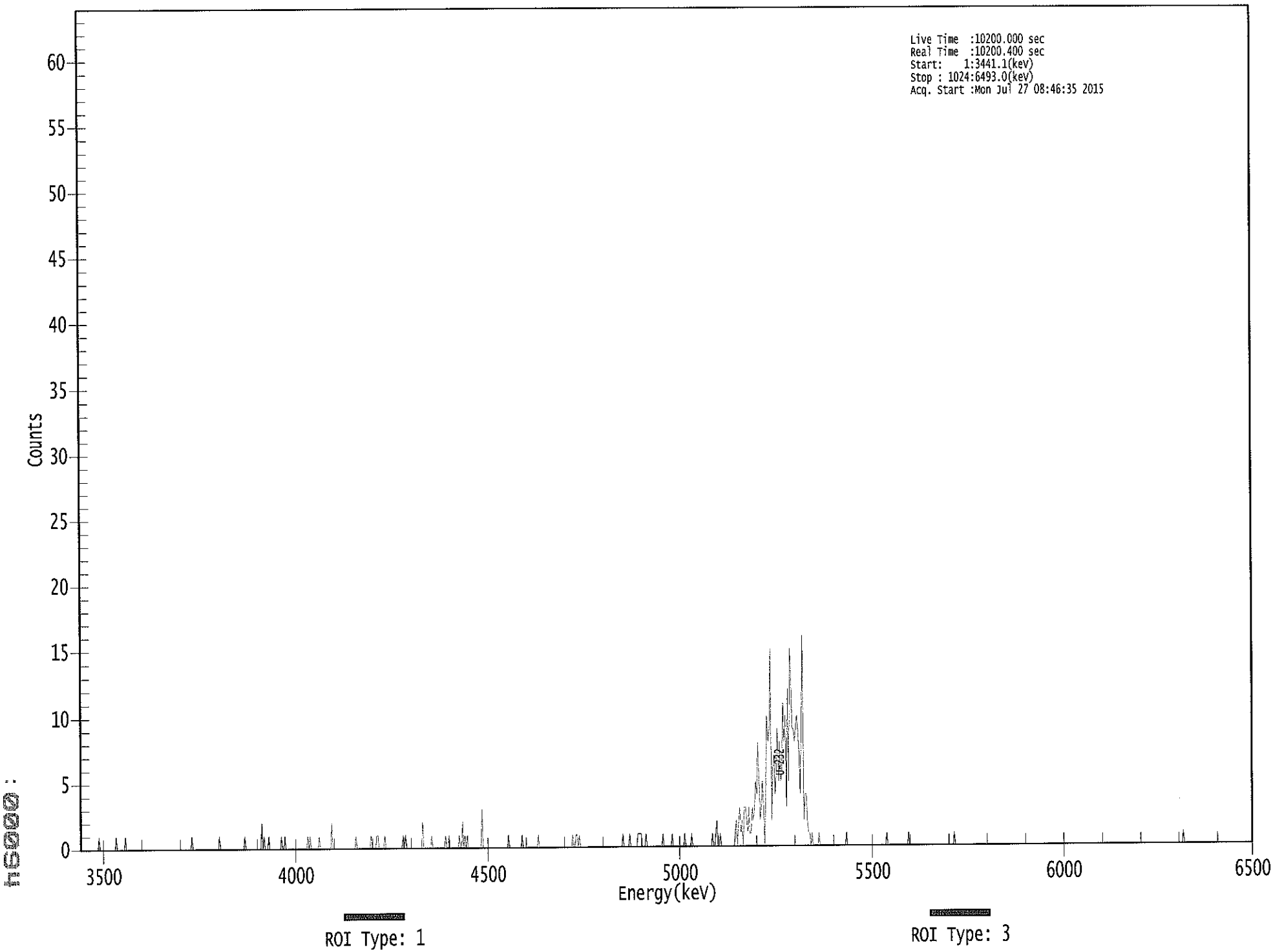
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.263	355.49	10.40	0.51	0.00E+000	5.7
U-234		4.711	4.66	94.59	0.34	0.00E+000	3.0
U-235		4.418	13.00	56.41	0.00	0.00E+000	3.0
U-238		4.133	9.83	63.14	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.989	5302.50*	5.06E+000 +/- 5.74E-001	7.47E-002 +/- 8.47E-003
U-234	0.982	4761.50*	6.63E-002 +/- 6.32E-002	6.80E-002 +/- 7.71E-003
U-235	0.992	4385.50*	2.28E-001 +/- 1.31E-001	1.05E-001 +/- 1.19E-002
U-238	0.981	4184.40*	1.39E-001 +/- 8.93E-002	5.91E-002 +/- 6.71E-003

0000124135.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	1	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	1
33:	0	0	0	0	0	0	0	1
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	1	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	1	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	1
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	2	0
161:	1	0	0	0	1	0	0	0
169:	0	0	0	0	0	0	0	1
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	1	0
201:	1	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	0	2	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	1	0	0	0	0	0	0	0
249:	0	0	0	0	0	1	0	0
257:	0	0	1	1	0	0	0	0
265:	0	1	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	1	0	1	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	2	0	0	0	0	0
305:	0	0	1	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	1	0	0	0	0	0	0
329:	0	0	1	0	0	2	0	1
337:	0	1	0	0	0	0	0	0
345:	0	0	0	0	0	0	3	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	1	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	1	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	1
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	1	0	0
433:	1	1	0	1	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	1	0	0	0	0	0	1
481:	0	0	0	0	0	0	1	1
489:	1	1	0	0	0	1	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	1	0	0	0
513:	0	0	0	0	1	0	0	0
521:	0	0	0	0	0	0	0	1
529:	0	0	0	0	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	1
553:	0	0	1	2	0	0	1	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	1	2	0	2	3
577:	1	2	0	3	3	2	1	3
585:	1	1	3	2	3	5	4	8
593:	5	2	3	5	3	0	5	10
601:	8	9	15	2	6	7	4	6
609:	9	5	8	5	6	11	8	10
617:	3	12	5	15	13	9	9	8
625:	9	10	9	7	4	10	16	2
633:	4	4	2	1	1	0	1	0
641:	0	0	0	0	1	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	1	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	1
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	1	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	1	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	1	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/27/15

Sample Description: FEEBRIS1D-19 061-063-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 124198
Reagent Blank: <not performed>

Sample Size: 1.055E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:15:51 AM
Acquisition Date/Time: 7/27/2015 8:46:37 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1477 +/- 0.0094
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 0.8646 +/- 0.0574

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

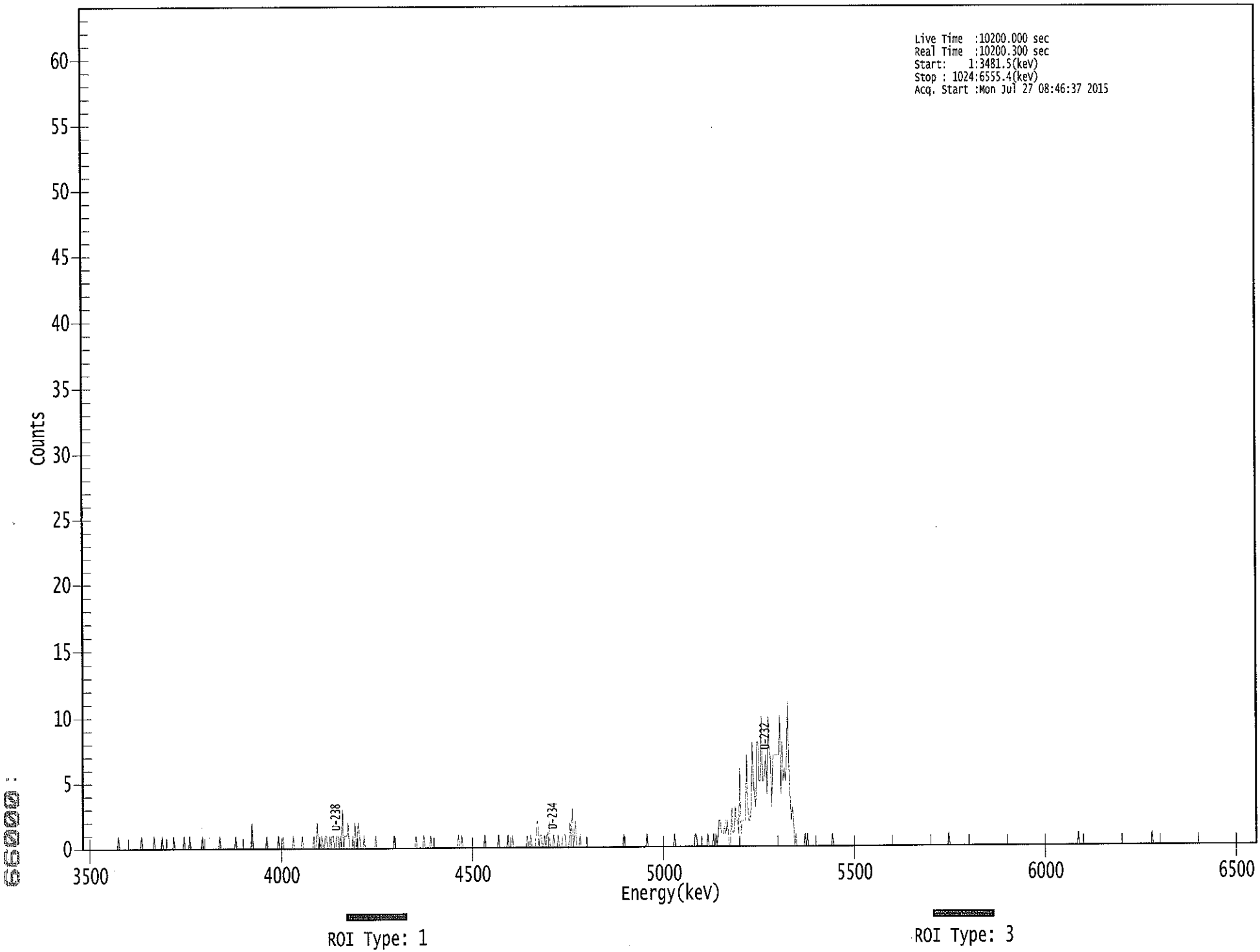
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.268	281.49	11.69	0.51	0.00E+000	9.0
U-234		4.713	27.66	37.53	0.34	0.00E+000	3.0
U-235		4.411	4.83	91.00	0.17	0.00E+000	3.0
U-238		4.147	32.49	34.70	0.51	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.992	5302.50*	4.80E+000 +/- 6.01E-001	8.94E-002 +/- 1.12E-002
U-234	0.984	4761.50*	4.71E-001 +/- 1.86E-001	8.15E-002 +/- 1.02E-002
U-235	0.995	4385.50*	1.02E-001 +/- 9.32E-002	8.77E-002 +/- 1.10E-002
U-238	0.990	4184.40*	5.51E-001 +/- 2.03E-001	8.90E-002 +/- 1.12E-002

0000124136.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	1
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	0	0	0
57:	0	0	0	0	0	0	1	0
65:	0	0	0	0	0	1	0	0
73:	0	0	0	0	0	0	0	1
81:	0	0	0	0	0	0	0	0
89:	1	0	0	0	0	1	0	0
97:	0	0	0	0	0	0	0	0
105:	1	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	1	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	2	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	1	0	0	0	0	0	0	0
169:	0	0	1	0	0	0	1	0
177:	0	0	0	0	0	0	0	1
185:	0	0	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	0
201:	0	1	0	0	2	0	1	0
209:	1	0	0	1	1	0	0	1
217:	0	1	1	0	0	1	1	0
225:	1	0	3	0	1	1	1	2
233:	0	0	0	1	0	2	0	1
241:	2	1	0	0	0	1	0	0
249:	0	0	0	0	0	0	0	1
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	1
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	1	0	0	0	0	0
297:	0	1	0	0	0	0	0	1
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	1
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	0	0	0	0	0

369:	0	0	1	0	0	0	1	0

Sample Title: 03

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	1	0	0	1	0
393:	0	0	0	2	2	0	1	1
401:	0	0	1	0	1	1	2	0
409:	0	0	1	0	0	0	1	0
417:	0	0	1	1	1	0	0	0
425:	2	0	3	0	1	2	0	0
433:	0	1	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	1	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	1	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	1	0
537:	0	0	0	0	0	0	0	0
545:	1	0	0	0	0	1	0	1
553:	0	1	2	2	1	1	1	2
561:	1	2	1	0	0	3	1	1
569:	3	2	2	1	6	1	2	2
577:	2	2	7	3	2	2	3	8
585:	5	4	3	8	8	5	5	10
593:	5	5	6	7	4	10	7	7
601:	3	7	7	7	7	7	7	10
609:	4	8	5	6	5	7	11	6
617:	4	2	3	2	0	1	0	0
625:	0	0	0	0	0	1	0	1
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	1	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	1	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	1	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

10
7/27/15

Apex-Alpha™

Sample Description: FEEBRIS1D-19 061-063
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 124199
Reagent Blank: <not performed>

Sample Size: 1.055E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:15:51 AM
Acquisition Date/Time: 7/27/2015 8:46:39 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.1762 +/- 0.0104
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.0911 +/- 0.0675

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

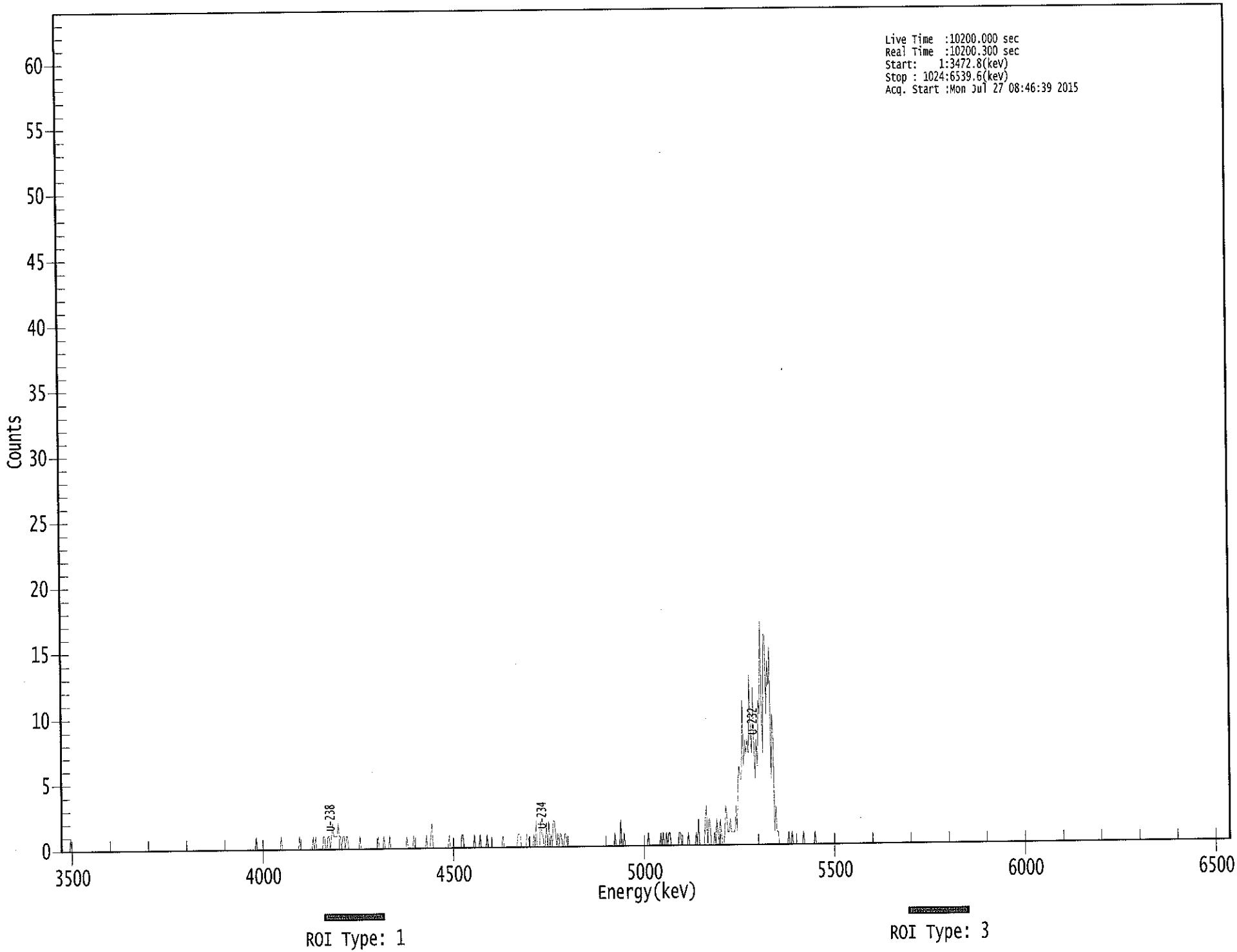
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.290	335.83	10.70	0.17	0.00E+000	12.0
U-234		4.735	28.00	37.70	0.00	0.00E+000	3.0
U-235		4.398	9.32	66.89	0.68	0.00E+000	4.5
U-238		4.180	23.66	40.63	0.34	0.00E+000	6.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.999	5302.50*	4.80E+000 +/- 5.57E-001	5.96E-002 +/- 6.92E-003
U-234	0.995	4761.50*	4.00E-001 +/- 1.58E-001	8.56E-002 +/- 9.94E-003
U-235	0.999	4385.50*	1.64E-001 +/- 1.11E-001	9.94E-002 +/- 1.15E-002
U-238	1.000	4184.40*	3.36E-001 +/- 1.42E-001	6.80E-002 +/- 7.89E-003

0000124137.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	1	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	1	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	1	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	0	0	1	0	1	0
225:	0	0	0	0	0	1	1	0
233:	0	1	1	0	1	2	1	1
241:	1	1	2	1	1	0	1	1
249:	0	1	1	0	0	0	0	0
257:	0	0	0	0	0	1	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	1	0	0
281:	0	0	1	0	0	0	0	1
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	1	0	0	0
313:	0	0	0	0	0	0	0	1
321:	0	0	0	1	2	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	1	0	0	0	0
345:	0	0	0	0	0	0	1	1
353:	0	0	0	0	0	0	0	0
361:	0	1	0	0	0	0	1	0

369:	0	0	0	0	1	0	0	0

Sample Title: 04

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	1	0	0	0	0	0
393:	0	0	0	0	0	0	0	1
401:	1	1	0	0	0	0	0	1
409:	1	0	0	0	0	1	0	2
417:	0	0	0	2	1	1	0	0
425:	2	0	2	0	1	0	2	2
433:	1	0	1	0	1	1	0	0
441:	1	1	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	1	0	0	0
489:	0	2	0	0	1	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	1	0	0	0	0	0	0
521:	0	0	0	0	1	0	1	0
529:	0	1	0	1	1	0	0	0
537:	0	0	0	0	1	1	0	0
545:	0	0	0	0	1	0	0	0
553:	0	0	0	1	0	2	0	0
561:	0	0	0	2	3	0	2	2
569:	0	0	0	1	0	2	1	0
577:	2	1	0	0	1	3	2	1
585:	1	2	1	1	1	1	3	1
593:	5	6	5	5	11	6	8	7
601:	8	7	13	8	7	12	8	5
609:	8	6	11	10	17	10	7	16
617:	16	10	14	12	15	5	10	8
625:	1	3	1	1	0	0	0	0
633:	0	0	0	0	1	0	0	1
641:	0	0	0	0	0	0	0	0
649:	0	1	0	0	0	0	0	0
657:	0	0	0	1	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/27/15

Sample Description: DUPLICATE 3
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-UU
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 124200
Reagent Blank: <not performed>

Sample Size: 1.119E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:15:51 AM
Acquisition Date/Time: 7/27/2015 8:46:42 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.602 mL
Effective Efficiency: 0.1655 +/- 0.0101
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 0.8558 +/- 0.0542

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

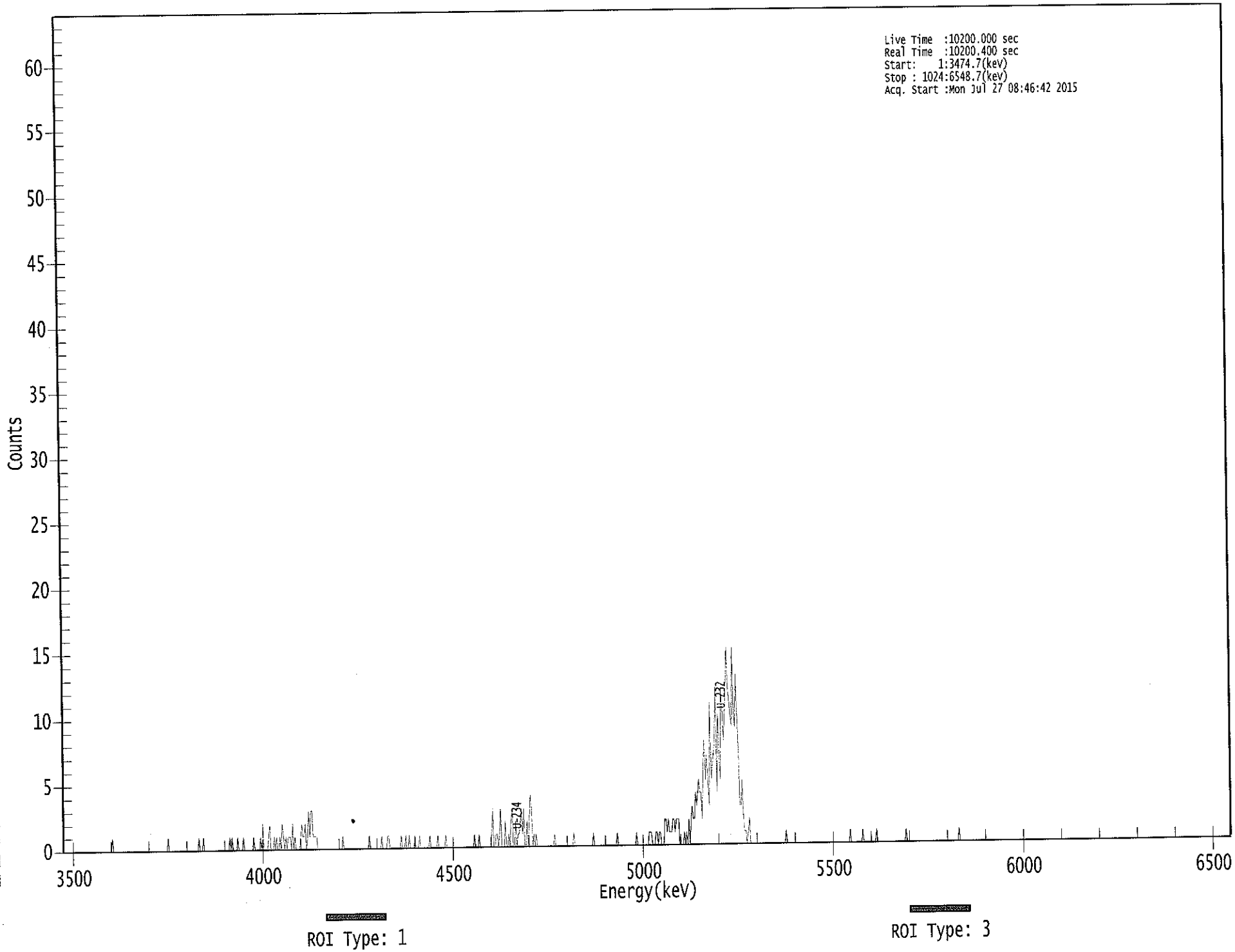
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.213	314.49	11.06	0.51	0.00E+000	46.5
U-234		4.671	45.83	29.01	0.17	0.00E+000	7.0
U-235		4.390	10.83	60.10	0.17	0.00E+000	3.0
U-238		4.091	40.49	31.03	0.51	0.00E+000	4.5

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.944	5302.50*	4.51E+000 +/- 5.39E-001	7.53E-002 +/- 8.99E-003
U-234	0.944	4761.50*	6.57E-001 +/- 2.06E-001	5.98E-002 +/- 7.15E-003
U-235	1.000	4385.50*	1.91E-001 +/- 1.17E-001	7.38E-002 +/- 8.82E-003
U-238	0.939	4184.40*	5.78E-001 +/- 1.92E-001	7.49E-002 +/- 8.95E-003

0000124140.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	1	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	1	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	1	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	1	0	1	0	0	0
153:	0	1	0	0	0	0	1	0
161:	0	0	0	0	0	0	0	1
169:	0	0	0	0	0	1	0	2
177:	0	0	0	0	1	2	0	0
185:	0	1	0	1	0	0	1	0
193:	2	1	0	1	0	1	1	1
201:	0	2	0	1	0	0	0	0
209:	1	2	1	1	2	0	1	3
217:	1	3	3	1	1	1	1	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	1	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	1	0	0	0
273:	0	0	0	0	0	0	0	1
281:	0	0	0	0	1	1	0	0
289:	0	0	0	0	0	0	0	0
297:	1	0	0	0	1	0	0	1
305:	0	0	0	0	1	0	0	0
313:	1	0	0	0	0	0	0	0
321:	0	1	0	0	0	0	0	0
329:	1	0	0	0	0	0	0	1
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	1	0	0	0	1	0	0	0

369:	0	0	0	0	0	0	0	1

Sample Title: 05

Channel								
377:	3	0	0	1	1	0	1	3
385:	0	0	0	2	0	0	1	0
393:	2	3	0	0	2	0	1	1
401:	2	3	1	3	0	0	2	0
409:	2	4	3	0	1	0	1	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	1	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	1
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	1	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	1	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	1	0
505:	0	0	0	0	0	0	0	0
513:	0	1	1	1	0	0	0	1
521:	1	0	1	1	0	0	0	2
529:	2	1	2	1	1	1	2	2
537:	1	2	2	2	0	0	0	0
545:	1	0	1	0	2	0	2	3
553:	2	2	4	3	4	5	4	4
561:	2	6	8	5	7	5	3	11
569:	5	6	7	8	12	4	10	7
577:	5	12	10	8	10	12	15	12
585:	11	10	9	15	10	9	13	10
593:	7	3	3	5	2	1	1	0
601:	1	2	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	1	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	1	0	0	0	0	0	0
697:	0	0	0	0	1	0	0	0
705:	0	0	0	0	0	0	0	0
713:	1	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	1	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	1	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	FEEBRIS1D-10 046-049
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification:	1507092A-UU
Sample Identification:	06
Sample Geometry:	Shelf 2
Procedure Description:	U iso
Detector Name:	Alpha_040
Chamber Serial Number:	06027396B
Detector Serial Number:	91135
Env. Background:	System Bkgd 124201
Reagent Blank:	<not performed>
Sample Size:	1.155E+000 +/- 0.000E+000 gram
Sample Date/Time:	7/9/2015 6:15:51 AM
Acquisition Date/Time:	7/27/2015 8:46:44 AM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	U232_UU-10A
Tracer Quantity:	0.603 mL
Effective Efficiency:	0.1191 +/- 0.0084
Counting Efficiency:	0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor:	0.6420 +/- 0.0466
Peak Match Tolerance:	0.150 MeV

PEAK AREA REPORT

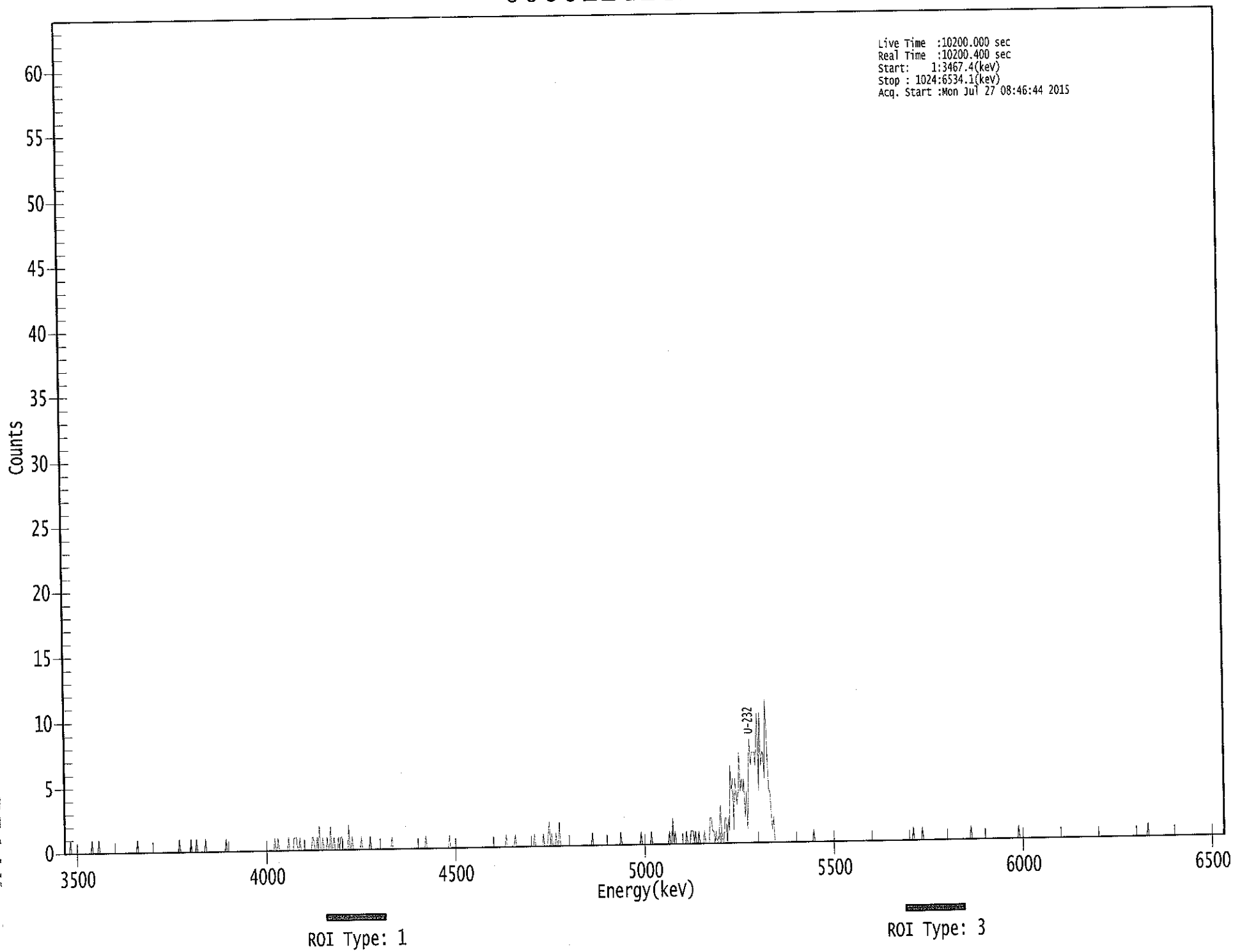
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.279	226.49	13.04	0.51	0.00E+000	9.5
U-234		4.731	10.83	60.10	0.17	0.00E+000	4.5
U-235		4.412	2.66	128.85	0.34	0.00E+000	3.0
U-238		4.142	23.83	40.32	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	4.37E+000 +/- 6.03E-001	1.01E-001 +/- 1.40E-002
U-234	0.993	4761.50*	2.09E-001 +/- 1.29E-001	8.05E-002 +/- 1.11E-002
U-235	0.995	4385.50*	6.33E-002 +/- 8.20E-002	1.14E-001 +/- 1.57E-002
U-238	0.987	4184.40*	4.58E-001 +/- 1.95E-001	8.02E-002 +/- 1.11E-002

0000124141.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	1	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	1	0	0	0	0	0	1	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	1	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	1	0	0
105:	0	0	0	0	0	0	0	1
113:	0	0	0	0	1	0	0	0
121:	0	0	0	0	1	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	1	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	1	0	0	1	0	0	0
193:	0	0	0	0	0	1	0	0
201:	0	0	1	1	1	0	0	1
209:	0	0	0	0	0	0	0	0
217:	0	0	1	1	0	0	1	0
225:	2	0	0	1	0	0	0	1
233:	0	0	2	0	0	1	0	0
241:	0	1	0	1	1	0	0	0
249:	0	0	2	0	0	1	0	0
257:	0	0	0	0	0	1	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	1	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	1	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	1	0	0
393:	0	0	0	0	0	1	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	1	0
417:	0	0	0	0	0	0	1	0
425:	0	0	1	2	0	1	0	0
433:	0	1	0	0	2	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	1	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	1	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	1	0	0	0
513:	0	0	0	0	0	1	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	2	0	1	0	0	0	0	0
545:	0	0	0	0	1	0	0	0
553:	1	1	1	0	1	0	0	1
561:	0	0	0	0	1	0	0	0
569:	0	2	2	1	1	0	1	0
577:	0	1	3	1	0	0	2	2
585:	0	2	1	6	4	5	1	5
593:	4	3	4	7	4	5	4	5
601:	2	4	1	6	8	6	7	7
609:	7	6	8	10	4	10	6	7
617:	7	5	11	9	6	4	4	2
625:	1	2	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	1	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	1	0	0	0
753:	0	0	0	0	1	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	1

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	1	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	1	0

Apex-Alpha™

KB 7/27/15

Sample Description: FEEBRIS1D-10 074-076
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-UU
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 124202
Reagent Blank: <not performed>

Sample Size: 1.151E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/12/2015 6:15:51 AM
Acquisition Date/Time: 7/27/2015 8:46:47 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1563 +/- 0.0098
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 0.8346 +/- 0.0541

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

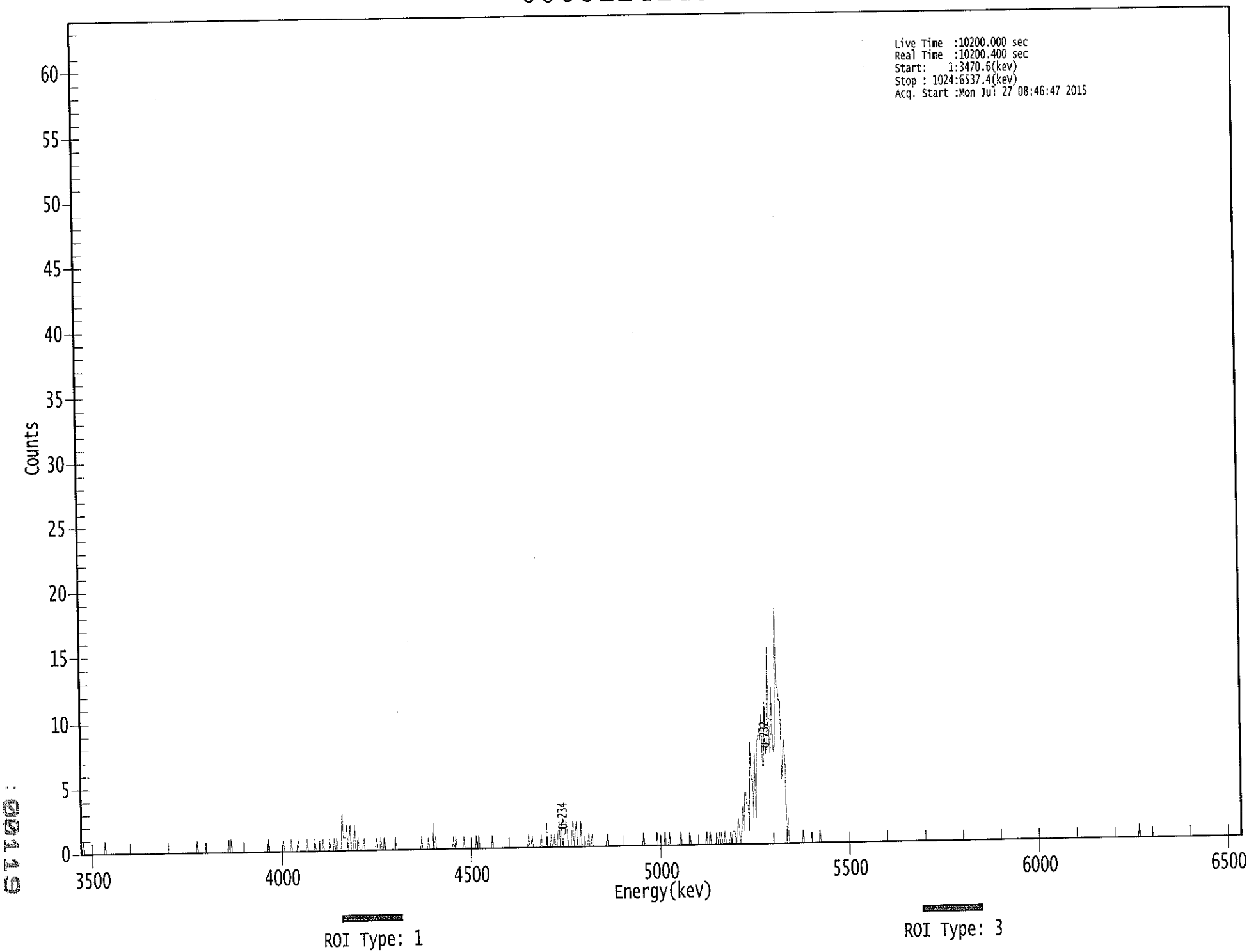
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.282	297.32	11.38	0.68	0.00E+000	15.7
U-234		4.744	25.47	40.18	1.53	0.00E+000	3.0
U-235		4.407	8.49	69.59	0.51	0.00E+000	3.0
U-238		4.151	22.60	44.71	3.40	0.00E+000	3.7

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.997	5302.50*	4.39E+000 +/- 5.38E-001	8.33E-002 +/- 1.02E-002
U-234	0.998	4761.50*	3.76E-001 +/- 1.58E-001	1.05E-001 +/- 1.28E-002
U-235	0.997	4385.50*	1.55E-001 +/- 1.09E-001	9.55E-002 +/- 1.17E-002
U-238	0.992	4184.40*	3.32E-001 +/- 1.54E-001	1.36E-001 +/- 1.67E-002

0000124143.CNF



6700:

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	1	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	1	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	1	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	1	0	1	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	1	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	1
201:	0	0	0	0	0	0	1	0
209:	0	0	0	0	0	1	0	0
217:	0	0	0	1	0	0	0	1
225:	0	1	0	0	0	0	3	1
233:	1	1	2	0	1	2	0	0
241:	0	2	0	0	1	0	0	0
249:	0	1	0	0	0	0	0	0
257:	0	0	0	0	1	0	0	0
265:	1	0	0	1	0	0	0	0
273:	0	0	0	0	0	1	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	1	0	0	0	2	0
313:	1	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	1	0	1	0	0	0	0	0
337:	0	1	0	0	0	0	0	0
345:	0	0	0	0	1	0	1	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	1	0	0	1	0	0
401:	0	0	0	0	0	1	0	0
409:	0	0	2	0	0	0	1	0
417:	0	1	0	0	1	2	0	2
425:	0	1	1	2	1	0	0	0
433:	1	2	0	1	2	0	0	0
441:	2	0	0	0	0	0	0	1
449:	0	0	1	0	0	0	0	0
457:	0	0	0	0	0	0	0	1
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	1
497:	0	0	0	0	0	0	0	0
505:	0	0	0	1	0	0	0	0
513:	0	0	1	0	0	0	1	0
521:	0	0	0	0	0	0	0	0
529:	1	0	0	0	0	0	0	0
537:	1	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	1
553:	0	0	1	0	0	0	0	0
561:	1	0	1	0	1	0	0	1
569:	0	0	0	0	1	0	1	1
577:	1	0	0	2	1	0	1	3
585:	1	4	4	3	3	1	8	5
593:	5	2	7	2	8	8	9	8
601:	10	6	6	11	7	8	15	8
609:	7	12	8	7	8	18	12	12
617:	11	11	5	7	8	6	0	2
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	1	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	1	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	1	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/27/2015 5:48:02 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 7/27/2015
Time : 5:48:02 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/27/2015 5:27:44 AM
Alpha_004	21f	ALL	Passed	7/27/2015 5:27:45 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/27/2015 5:27:46 AM
Alpha_011	21f	ALL	Passed	7/27/2015 5:27:47 AM
Alpha_012	21f	ALL	Passed	7/27/2015 5:27:48 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/27/2015 5:27:49 AM
Alpha_015	21f	Peak Energy	Action	7/27/2015 5:27:50 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:51 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:52 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:54 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:56 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:57 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	7/27/2015 5:27:59 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:01 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:03 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:05 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:07 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:09 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:12 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:14 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:16 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:19 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:22 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:24 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:26 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:29 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:32 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:35 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:38 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:41 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:44 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:47 AM

Review of QA Results - Pulser Check

7/27/2015 5:48:02 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:50 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:53 AM

APPROVED BY: _____

APPROVAL DATE: 7/27

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-07092
ThISO
Run 1

Work Order	15-07092
Analysis Code	ThISO
Run	1
Date Received	7/15/2015
Lab Deadline	8/5/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/15/15 00:00	1.0000E+00
02	MBL	BLANK		07/15/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-19 061-063	32	07/08/15 10:18	1.0548E+00
04	DO	FEEBRIS1D-19 061-063	32	07/08/15 10:18	1.0548E+00
05	TRG	DUPLICATE 3	33	07/08/15 10:18	1.1190E+00
06	TRG	FEEBRIS1D-10 046-049	34	07/09/15 12:10	1.1550E+00
07	TRG	FEEBRIS1D-10 074-076	39	07/12/15 10:41	1.1505E+00

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-07092
ThISO
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4705	10.6		0.00								
02	MBL	0.2347	5.3		0.00								
03	DUP	0.2346	5.3		0.00								
04	DO	0.2347	5.3		0.00								
05	TRG	0.2340	5.3		0.00								
06	TRG	0.2338	5.3		0.00								
07	TRG	0.2332	5.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			07/23/15 07:10	JWOLFE				
02	MBL			07/23/15 07:10	JWOLFE				
03	DUP			07/23/15 07:10	JWOLFE				
04	DO	07/16/15 08:37	KSALLINGS	07/23/15 07:10	JWOLFE				
05	TRG	07/16/15 08:37	KSALLINGS	07/23/15 07:10	JWOLFE				
06	TRG	07/16/15 08:37	KSALLINGS	07/23/15 07:10	JWOLFE				
07	TRG	07/16/15 08:37	KSALLINGS	07/23/15 07:10	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

0126

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.51E+00	8.44E-01	7.87E-02	4.94E+00	111.41	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	1.36E-02	4.17E-02	9.88E-02					OK	OK
03	TH-228	DUP	FEEBRIS1D-19 061-063	pCi/g	3.12E-01	1.56E-01	9.60E-02				NA	OK	
04	TH-228	DO	FEEBRIS1D-19 061-063	pCi/g	2.52E-01	1.31E-01	9.33E-02					OK	
05	TH-228	TRG	DUPLICATE 3	pCi/g	3.29E-01	1.48E-01	9.55E-02					OK	
06	TH-228	TRG	FEEBRIS1D-10 046-049	pCi/g	4.23E-01	1.53E-01	6.40E-02					OK	
07	TH-228	TRG	FEEBRIS1D-10 074-076	pCi/g	3.31E-01	1.37E-01	8.59E-02					OK	

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	07/15/15 00:00	1.00E+00	118.08	0.00	0.00			
02	TH-228	MBL	07/15/15 00:00	1.00E+00	79.44	0.00	0.00			
03	TH-228	DUP	07/08/15 10:18	1.05E+00	77.81	0.00	0.00			
04	TH-228	DO	07/08/15 10:18	1.05E+00	93.20	0.00	0.00			
05	TH-228	TRG	07/08/15 10:18	1.12E+00	92.60	0.00	0.00			
06	TH-228	TRG	07/09/15 12:10	1.16E+00	118.62	0.00	0.00			
07	TH-228	TRG	07/12/15 10:41	1.15E+00	100.13	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	07/27/15 11:48		A_Spec	Alpha_037	170	4.19 E+02	5.00 E-03	17.1
02	TH-228	MBL	07/27/15 11:48		A_Spec	Alpha_038	170	6.60 E-01	2.00 E-03	16.2
03	TH-228	DUP	07/27/15 11:48		A_Spec	Alpha_039	170	1.83 E+01	4.00 E-03	19.3
04	TH-228	DO	07/27/15 11:48		A_Spec	Alpha_040	170	1.70 E+01	6.00 E-03	18.6
05	TH-228	TRG	07/27/15 11:48		A_Spec	Alpha_041	170	2.36 E+01	8.00 E-03	18.7
06	TH-228	TRG	07/27/15 11:48		A_Spec	Alpha_042	170	3.73 E+01	4.00 E-03	17.4
07	TH-228	TRG	07/27/15 11:48		A_Spec	Alpha_043	170	2.83 E+01	1.00 E-02	20

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.11E+00	9.18E-01	7.88E-02	5.38E+00	113.50	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	5.15E-02	7.19E-02	1.09E-01					OK	OK
03	TH-230	DUP	FEEBRIS1D-19 061-063	pCi/g	1.08E+00	3.28E-01	7.99E-02				INV	OK	
04	TH-230	DO	FEEBRIS1D-19 061-063	pCi/g	5.92E-01	2.08E-01	6.96E-02					OK	
05	TH-230	TRG	DUPLICATE 3	pCi/g	6.99E-01	2.29E-01	1.04E-01					OK	
06	TH-230	TRG	FEEBRIS1D-10 046-049	pCi/g	4.63E-01	1.59E-01	5.85E-02					OK	
07	TH-230	TRG	FEEBRIS1D-10 074-076	pCi/g	3.05E-01	1.27E-01	6.05E-02					OK	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	07/15/15 00:00	1.00E+00	118.08	0.00	0.00			
02	TH-230	MBL	07/15/15 00:00	1.00E+00	79.44	0.00	0.00			
03	TH-230	DUP	07/08/15 10:18	1.05E+00	77.81	0.00	0.00			
04	TH-230	DO	07/08/15 10:18	1.05E+00	93.20	0.00	0.00			
05	TH-230	TRG	07/08/15 10:18	1.12E+00	92.60	0.00	0.00			
06	TH-230	TRG	07/09/15 12:10	1.16E+00	118.62	0.00	0.00			
07	TH-230	TRG	07/12/15 10:41	1.15E+00	100.13	0.00	0.00			

Client	Eberline Services Work Order	Analysis Code	Run
AMO Environmental Decisions	15-07092	ThISO	1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	07/27/15 11:48		A_Spec	Alpha_037	170	4.64 E+02	5.00 E-03	17.1
02	TH-230	MBL	07/27/15 11:48		A_Spec	Alpha_038	170	2.49 E+00	3.00 E-03	16.2
03	TH-230	DUP	07/27/15 11:48		A_Spec	Alpha_039	170	6.47 E+01	2.00 E-03	19.3
04	TH-230	DO	07/27/15 11:48		A_Spec	Alpha_040	170	4.07 E+01	2.00 E-03	18.6
05	TH-230	TRG	07/27/15 11:48		A_Spec	Alpha_041	170	5.11 E+01	1.10 E-02	18.7
06	TH-230	TRG	07/27/15 11:48		A_Spec	Alpha_042	170	4.15 E+01	3.00 E-03	17.4
07	TH-230	TRG	07/27/15 11:48		A_Spec	Alpha_043	170	2.65 E+01	3.00 E-03	20

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	5.42E+00	8.33E-01	6.89E-02	4.94E+00	109.55	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	4.13E-02	7.06E-02	1.24E-01					OK	OK
03	TH-232	DUP	FEEBRIS1D-19 061-063	pCi/g	5.39E-01	2.12E-01	9.41E-02				OK	OK	
04	TH-232	DO	FEEBRIS1D-19 061-063	pCi/g	4.57E-01	1.79E-01	7.62E-02					OK	
05	TH-232	TRG	DUPLICATE 3	pCi/g	2.36E-01	1.24E-01	1.00E-01					OK	
06	TH-232	TRG	FEEBRIS1D-10 046-049	pCi/g	3.30E-01	1.30E-01	5.32E-02					OK	
07	TH-232	TRG	FEEBRIS1D-10 074-076	pCi/g	3.18E-01	1.30E-01	5.50E-02					OK	

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	07/15/15 00:00	1.00E+00	118.08	0.00	0.00			
02	TH-232	MBL	07/15/15 00:00	1.00E+00	79.44	0.00	0.00			
03	TH-232	DUP	07/08/15 10:18	1.05E+00	77.81	0.00	0.00			
04	TH-232	DO	07/08/15 10:18	1.05E+00	93.20	0.00	0.00			
05	TH-232	TRG	07/08/15 10:18	1.12E+00	92.60	0.00	0.00			
06	TH-232	TRG	07/09/15 12:10	1.16E+00	118.62	0.00	0.00			
07	TH-232	TRG	07/12/15 10:41	1.15E+00	100.13	0.00	0.00			

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	07/27/15 11:48		A_Spec	Alpha_037	170	4.12 E+02	3.00 E-03	17.1
02	TH-232	MBL	07/27/15 11:48		A_Spec	Alpha_038	170	2.00 E+00	0.00 E+00	16.2
03	TH-232	DUP	07/27/15 11:48		A_Spec	Alpha_039	170	3.23 E+01	4.00 E-03	19.3
04	TH-232	DO	07/27/15 11:48		A_Spec	Alpha_040	170	3.15 E+01	3.00 E-03	18.6
05	TH-232	TRG	07/27/15 11:48		A_Spec	Alpha_041	170	1.73 E+01	1.00 E-02	18.7
06	TH-232	TRG	07/27/15 11:48		A_Spec	Alpha_042	170	2.97 E+01	2.00 E-03	17.4
07	TH-232	TRG	07/27/15 11:48		A_Spec	Alpha_043	170	2.77 E+01	2.00 E-03	20

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	7.03E-02	8.53E-02	1.19E-01					OK	OK
03	TH-227	DUP	FEEBRIS1D-19 061-063	pCi/g	1.14E-01	9.16E-02	8.20E-02				NA	OK	
04	TH-227	DO	FEEBRIS1D-19 061-063	pCi/g	1.29E-01	9.07E-02	7.13E-02					OK	
05	TH-227	TRG	DUPLICATE 3	pCi/g	7.70E-02	6.91E-02	7.36E-02					OK	
06	TH-227	TRG	FEEBRIS1D-10 046-049	pCi/g	6.28E-02	5.62E-02	6.00E-02					OK	
07	TH-227	TRG	FEEBRIS1D-10 074-076	pCi/g	6.29E-02	5.82E-02	6.67E-02					OK	

GS100

Preliminary Data Report & Analytical Calculations

Work Order: 15-07092-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07092

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	07/15/15 00:00	1.00E+00	79.44	0.00	0.00			
03	TH-227	DUP	07/08/15 10:18	1.05E+00	77.81	0.00	0.00			
04	TH-227	DO	07/08/15 10:18	1.05E+00	93.20	0.00	0.00			
05	TH-227	TRG	07/08/15 10:18	1.12E+00	92.60	0.00	0.00			
06	TH-227	TRG	07/09/15 12:10	1.16E+00	118.62	0.00	0.00			
07	TH-227	TRG	07/12/15 10:41	1.15E+00	100.13	0.00	0.00			

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07092
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
02	TH-227	MBL	07/27/15 11:48		A_Spec	Alpha_038	170	3.32 E+00	4.00 E-03	16.2
03	TH-227	DUP	07/27/15 11:48		A_Spec	Alpha_039	170	6.66 E+00	2.00 E-03	19.3
04	TH-227	DO	07/27/15 11:48		A_Spec	Alpha_040	170	8.66 E+00	2.00 E-03	18.6
05	TH-227	TRG	07/27/15 11:48		A_Spec	Alpha_041	170	5.49 E+00	3.00 E-03	18.7
06	TH-227	TRG	07/27/15 11:48		A_Spec	Alpha_042	170	5.49 E+00	3.00 E-03	17.4
07	TH-227	TRG	07/27/15 11:48		A_Spec	Alpha_043	170	5.32 E+00	4.00 E-03	20

Count Room Report
Client: AMO Environmental Decisio

15-07092-ThISO-1 (pCi/g) in SO
Tracer ID: Th-18a

#32-42

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/15/15 00:00	1.0000	0.4705	10.5674		0.00		
02	MBL	BLANK	07/15/15 00:00	1.0000	0.2347	5.2714		0.00		
03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	1.0548	0.2346	5.2691		0.00		
04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	1.0548	0.2347	5.2714		0.00		
05	TRG	DUPLICATE 3	07/08/15 10:18	1.1190	0.2340	5.2556		0.00		
06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	1.1550	0.2338	5.2511		0.00		
07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	1.1505	0.2332	5.2377		0.00		

2-102-2015

Printed: 7/23/2015 7:10 AM

Eberline Services
Oak Ridge Laboratory

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-07092	1	ThISO	7/23/2015 7:06	JWOLFE	JW	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Th-228	Th-8b	103.560	7/23/2015	0.100	0.1060				4.94	0.178	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	7/23/2015	0.500	0.5078				5.38	0.145	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	7/23/2015	0.100	0.1060				4.94	0.178	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Th-229	Th-18a	22.460	7/23/2015	0.4705	0.2200
02	Th-229	Th-18a	22.460	7/23/2015	0.2347	0.2200
03	Th-229	Th-18a	22.460	7/23/2015	0.2346	0.2200
04	Th-229	Th-18a	22.460	7/23/2015	0.2347	0.2200
05	Th-229	Th-18a	22.460	7/23/2015	0.2340	0.2200
06	Th-229	Th-18a	22.460	7/23/2015	0.2338	0.2200
07	Th-229	Th-18a	22.460	7/23/2015	0.2332	0.2200

Balance Printer Tapes

Tracer

0.4705 g
0.2347 g
0.2346 g
0.2347 g
0.2340 g
0.2338 g
0.2332 g

LCS

0.5078 g
0.1060 g

Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/23/2015 7:18 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07092	1	ThISO	grams	8/5/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-19 061-063	DUP		1	11.38	8.79E-02	1.2000E+01	1.0548E+00				
04	FEEBRIS1D-19 061-063	DO		1	11.38	8.79E-02	1.2000E+01	1.0548E+00				
05	DUPLICATE 3	TRG		1	13.40	7.46E-02	1.5000E+01	1.1190E+00				
06	FEEBRIS1D-10 046-049	TRG		1	12.99	7.70E-02	1.5000E+01	1.1550E+00				
07	FEEBRIS1D-10 074-076	TRG		1	13.04	7.67E-02	1.5000E+01	1.1505E+00				

Comments	

Technician: JWolfe Date: 7/23/15

Eberline Analytical
Oak Ridge Laboratory

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-07092
Fraction	**> 03 <**
Analysis Code	**ThISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.79**	ml	from the original sample and diluted it to	**100**	ml	0.0879
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0879**
Dilution Factor	**11.37656428**

Diluted by: JW

Date: 7/23/15

Eberline Analytical
Oak Ridge Laboratory

EBERLINE SERVICES	Internal Work Order	15-07092
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.79**	ml	from the original sample and diluted it to	**100**	ml	0.0879
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0879**
Dilution Factor	**11.37656428**

Diluted by: JW

Date: 7/23/15

: 00146

Eberline Analytical
Oak Ridge Laboratory

EBERLINE SERVICES	Internal Work Order	15-07092
	Fraction	> 05 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.46**	ml	from the original sample and diluted it to	**100**	ml	0.0746
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0746**
Dilution Factor	**13.40482574**

Diluted by: JW

Date: 7/23/15

00147

Eberline Analytical
Oak Ridge Laboratory

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-07092
Fraction	**> 06 <**
Analysis Code	**ThISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.7**	ml	from the original sample and diluted it to	**100**	ml	0.0770
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.077**
Dilution Factor	**12.98701299**

Diluted by: JW Date: 7/23/15

091169

EBERLINE SERVICES	Internal Work Order	15-07092
	Fraction	> 07 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**7.67**	ml	from the original sample and diluted it to	**100**	ml	0.0767
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0767**
Dilution Factor	**13.03780965**

Diluted by: JW Date: 7/23/15

61169

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-07092	grams	8/5/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare	Muffle Data		Muffle Calculations		
Fraction	Client ID	Crucible Wt	Pre Wt/Vol	Post Wt/Vol	Pre Net Wt/Vol	Post-Net Wt/Vol	Ratio Post/Pre
04	FEEBRIS1D-19 061-063	102.6400	111.4300		8.7900		
05	DUPLICATE 3	112.0700	119.5300		7.4600		
06	FEEBRIS1D-10 046-049	111.6300	119.3300		7.7000		
07	FEEBRIS1D-10 074-076	109.6600	117.3300		7.6700		

Comments

Technician: Kenysaij Date: 7/16/15

Analysis: ThISO

: 00150

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/16/2015 8:37 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07092	8/5/2015	7/15/2015	7/16/2015	7/17/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-19 061-063	28.8700	1711.3000	1410.2200	1682.4300	1381.3500	17.90%	82.10%			
05	DUPLICATE 3	28.9000	1359.3400	1127.1200	1330.4400	1098.2200	17.45%	82.55%			
06	FEEBRIS1D-10 046-049	43.4500	1634.0000	1294.8400	1590.5500	1251.3900	21.32%	78.68%			
07	FEEBRIS1D-10 074-076	29.1400	1344.7200	999.6600	1315.5800	970.5200	26.23%	73.77%			

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

15-07092

Technician: Kerry Sallings Date: Analysis: Rough Prep Logbook

ICD 7/27/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 124198
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 6:55:31 AM
Acquisition Date/Time: 7/27/2015 11:48:16 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.470 mL
Effective Efficiency: 0.2018 +/- 0.0123
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 1.1808 +/- 0.0750

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 1.095502 +/- 0.091996
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

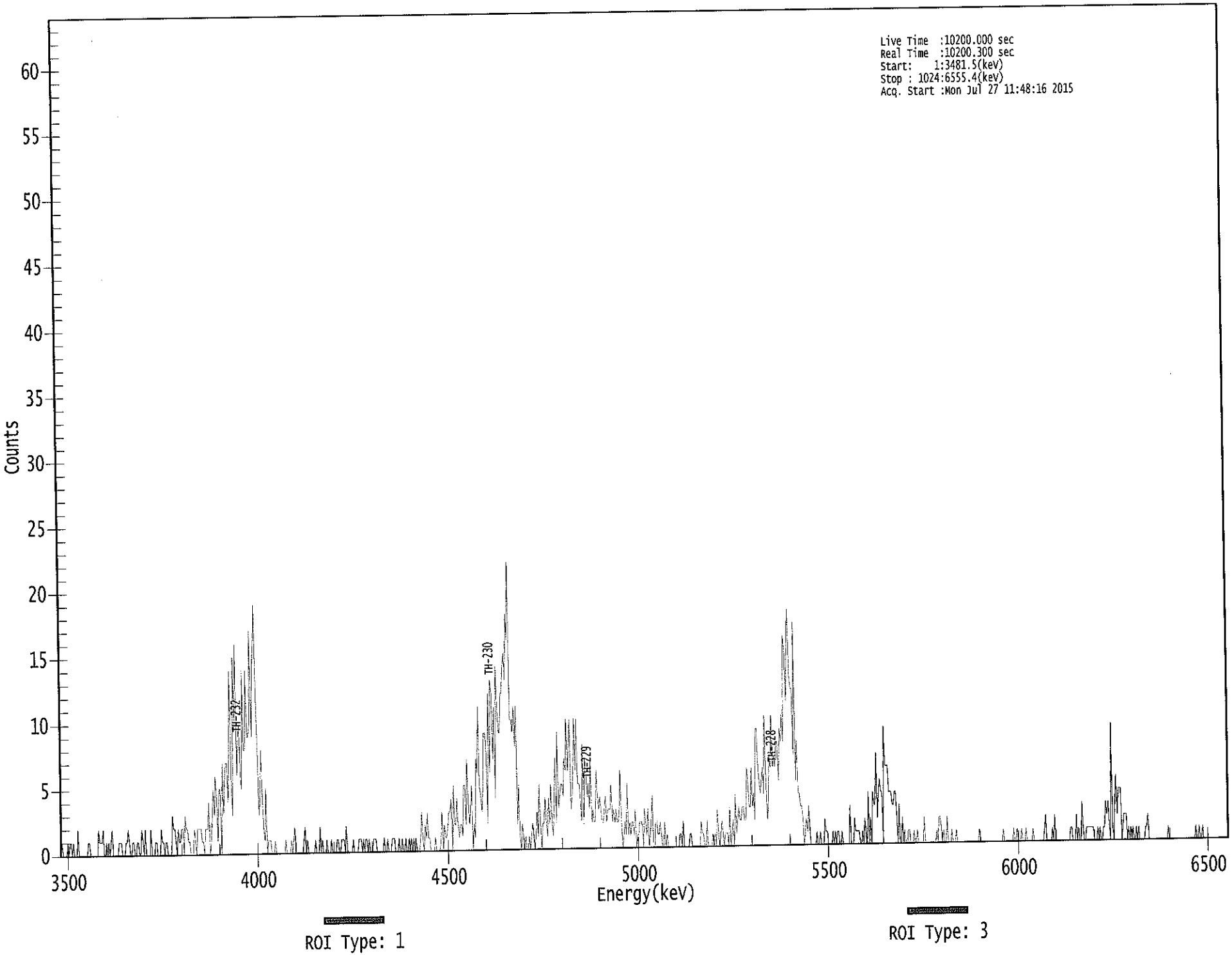
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.834	24.83	39.49	0.17	0.00E+000	3.0
TH-228		5.356	419.15	9.58	0.85	0.00E+000	25.5
TH-229	T	4.869	362.49	10.30	0.51	0.00E+000	19.2
TH-230		4.614	464.15	9.11	0.85	0.00E+000	24.8
TH-232		3.951	412.49	9.66	0.51	0.00E+000	13.6

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	3.34E-001 +/- 1.38E-001	5.62E-002 +/- 6.72E-003
TH-228	0.990	5400.00*	5.51E+000 +/- 8.44E-001	7.87E-002 +/- 9.41E-003
TH-229	1.000	4872.00*	4.78E+000 +/- 5.72E-001	6.92E-002 +/- 8.28E-003
TH-230	0.983	4672.00*	6.11E+000 +/- 9.18E-001	7.88E-002 +/- 9.42E-003
TH-232	0.989	3997.00*	5.42E+000 +/- 8.33E-001	6.89E-002 +/- 8.24E-003

0000124169.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	1	0	0	0	0	1	0
9:	1	1	0	1	0	0	0	2
17:	0	0	0	0	0	0	0	0
25:	1	1	0	0	0	0	0	0
33:	0	2	1	1	1	2	0	0
41:	1	0	1	0	1	2	0	0
49:	0	0	0	1	1	1	0	0
57:	0	1	1	2	1	0	0	1
65:	1	0	0	1	1	0	0	2
73:	1	0	2	0	0	0	0	2
81:	0	0	0	1	1	0	0	0
89:	2	1	1	0	1	1	0	0
97:	0	0	3	2	2	1	0	2
105:	1	1	2	2	0	3	2	2
113:	1	1	0	0	0	2	1	0
121:	2	2	2	2	1	1	0	2
129:	2	2	4	0	1	3	5	3
137:	6	4	1	5	5	0	7	3
145:	6	7	7	4	8	14	5	3
153:	15	10	16	6	9	10	6	5
161:	14	8	8	14	9	9	10	17
169:	9	14	16	19	12	8	3	4
177:	8	4	2	1	5	0	1	1
185:	1	0	0	0	1	0	0	0
193:	0	0	0	0	0	1	0	0
201:	0	0	1	0	1	2	0	0
209:	0	0	0	0	0	1	2	0
217:	1	0	0	0	0	0	0	1
225:	0	0	0	2	0	1	0	0
233:	0	1	0	0	0	1	0	0
241:	0	0	1	1	0	0	1	1
249:	1	0	2	0	0	0	0	0
257:	1	0	0	0	0	1	1	1
265:	0	1	0	1	1	0	1	0
273:	0	0	1	1	1	0	0	0
281:	0	0	0	1	0	0	1	0
289:	0	0	1	1	1	0	0	0
297:	1	0	0	1	0	0	1	0
305:	0	1	0	1	0	1	0	1
313:	0	0	0	1	3	1	0	2
321:	1	3	1	1	0	0	0	0
329:	1	0	0	0	0	1	3	0
337:	2	1	1	2	3	3	4	0
345:	5	2	2	4	2	1	2	2
353:	1	5	5	2	7	4	2	3
361:	5	0	2	1	7	6	11	5

369:	4	3	5	9	9	8	2	12

Sample Title: 01

Channel								
377:	6	13	12	7	11	4	14	11
385:	9	9	12	12	14	15	13	18
393:	16	22	10	10	9	11	8	11
401:	2	5	1	0	2	1	0	1
409:	0	0	1	0	1	2	1	0
417:	1	3	1	5	2	0	2	2
425:	4	2	1	4	2	5	2	1
433:	4	7	2	9	3	4	5	5
441:	4	7	6	10	6	8	10	3
449:	4	6	10	6	10	5	5	4
457:	2	8	2	7	6	4	5	3
465:	7	2	3	2	2	6	4	3
473:	4	3	2	2	3	4	2	3
481:	3	3	5	2	3	2	3	2
489:	2	3	6	2	0	1	2	1
497:	5	1	2	1	2	2	1	3
505:	0	1	1	2	2	2	0	3
513:	2	1	3	0	1	2	4	0
521:	0	2	2	1	1	2	1	0
529:	0	2	0	1	0	0	0	0
537:	0	0	0	0	0	0	1	1
545:	0	2	0	0	0	0	0	1
553:	1	0	0	0	0	0	0	0
561:	0	2	1	1	0	0	2	0
569:	0	0	0	1	0	1	0	3
577:	1	0	1	2	1	0	1	1
585:	1	0	3	0	1	2	0	4
593:	1	2	3	2	2	3	3	2
601:	2	6	5	3	3	6	3	4
609:	2	9	9	6	5	4	5	6
617:	4	10	5	2	3	7	6	10
625:	6	7	6	8	8	5	9	8
633:	10	8	16	15	11	16	18	13
641:	12	12	7	17	5	8	4	4
649:	3	3	2	0	1	2	1	3
657:	1	0	0	0	0	0	1	0
665:	0	1	0	0	0	2	1	1
673:	0	0	0	0	1	0	1	0
681:	1	1	0	0	1	0	0	0
689:	0	0	0	3	0	0	0	2
697:	1	1	1	1	0	0	1	0
705:	2	1	0	4	0	2	0	4
713:	3	3	7	2	4	5	4	4
721:	0	9	6	6	6	4	4	4
729:	3	3	4	4	2	0	3	0
737:	0	2	0	1	0	0	1	1
745:	0	0	0	1	0	0	1	0
753:	0	0	0	0	2	0	0	0
761:	0	0	0	0	0	0	0	1
769:	0	2	2	1	0	1	0	0
777:	2	0	0	0	1	0	0	0
785:	1	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	1	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	1	0	0	0	0	0	0
833:	0	0	1	0	0	1	0	0
841:	0	1	0	0	0	1	0	0
849:	0	0	0	1	0	0	0	0
857:	0	0	0	0	0	1	2	0
865:	0	0	0	0	1	0	2	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	1	1	0	0
889:	0	2	0	1	0	0	3	1
897:	0	0	1	1	1	1	1	1
905:	1	0	0	0	1	0	1	0
913:	0	1	1	3	2	3	1	0
921:	9	1	0	3	5	2	4	4
929:	4	0	1	2	2	2	0	1
937:	0	1	0	1	0	0	1	0
945:	1	0	0	0	0	0	1	1
953:	2	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	1	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	1	0	0	1	0	0
1001:	1	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/27/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 124199
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 6:55:31 AM
Acquisition Date/Time: 7/27/2015 11:48:18 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.235 mL
Effective Efficiency: 0.1283 +/- 0.0127
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 0.7944 +/- 0.0796

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

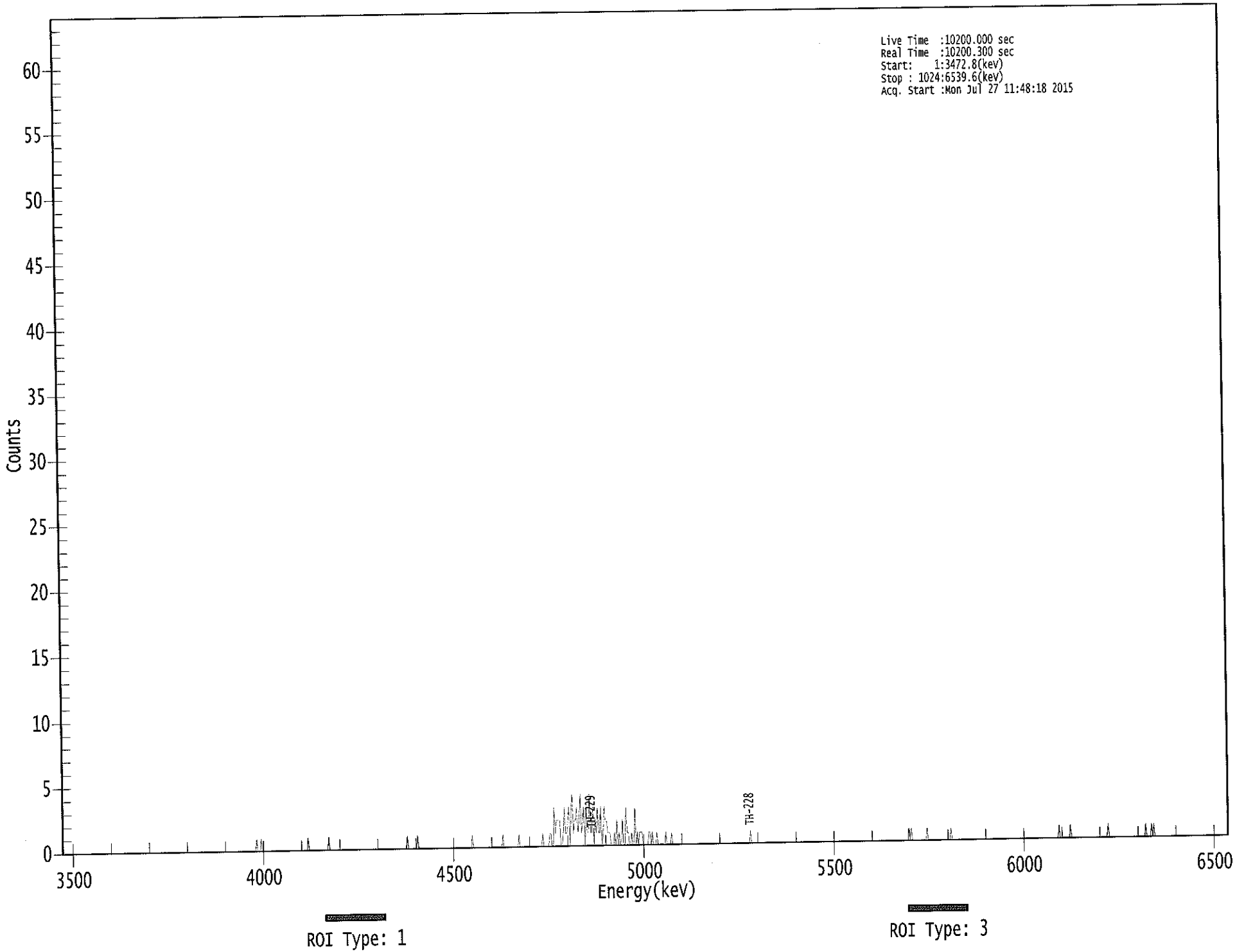
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.738	3.32	119.77	0.68	0.00E+000	3.0
TH-228		5.280	0.66	305.43	0.34	0.00E+000	3.0
TH-229	T	4.865	115.00	18.36	0.00	0.00E+000	6.0
TH-230		4.617	2.49	138.29	0.51	0.00E+000	3.0
TH-232		3.988	2.00	169.74	0.00	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.937	5850.00*	7.03E-002 +/- 8.53E-002	1.19E-001 +/- 2.31E-002
TH-228	0.928	5400.00*	1.36E-002 +/- 4.17E-002	9.88E-002 +/- 1.91E-002
TH-229	1.000	4872.00*	2.39E+000 +/- 4.61E-001	1.24E-001 +/- 2.41E-002
TH-230	0.984	4672.00*	5.15E-002 +/- 7.19E-002	1.09E-001 +/- 2.10E-002
TH-232	1.000	3997.00*	4.13E-002 +/- 7.06E-002	1.24E-001 +/- 2.39E-002

0000124170.CNF



: 021153

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	1	0	0	0	1	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	1
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	1	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	0	0	0	1
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	1
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	1	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	1	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	1	0	0
425:	0	0	0	1	1	0	0	3
433:	1	2	2	2	2	0	0	1
441:	3	1	1	2	3	0	3	4
449:	1	2	2	3	1	2	4	1
457:	2	3	0	3	1	1	4	1
465:	1	3	0	2	1	3	1	1
473:	3	0	1	3	2	2	1	1
481:	1	0	0	0	1	0	2	0
489:	1	0	0	2	0	0	3	1
497:	1	0	0	1	0	0	3	0
505:	1	0	1	1	1	0	0	0
513:	0	0	1	1	0	1	0	0
521:	0	1	0	0	0	0	0	0
529:	0	1	0	0	0	0	1	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	1	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	1	0
745:	1	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	1	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	1	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	1	0	0	0	0	0
881:	0	0	0	0	1	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	1	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	1	0
953:	0	0	0	1	0	1	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

NB 7/27/15

Apex-Alpha™

Sample Description: FEEBRIS1D-19 061-063-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 124200
Reagent Blank: <not performed>

Sample Size: 1.055E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:55:31 AM
Acquisition Date/Time: 7/27/2015 11:48:20 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.235 mL
Effective Efficiency: 0.1505 +/- 0.0138
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 0.7781 +/- 0.0725

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

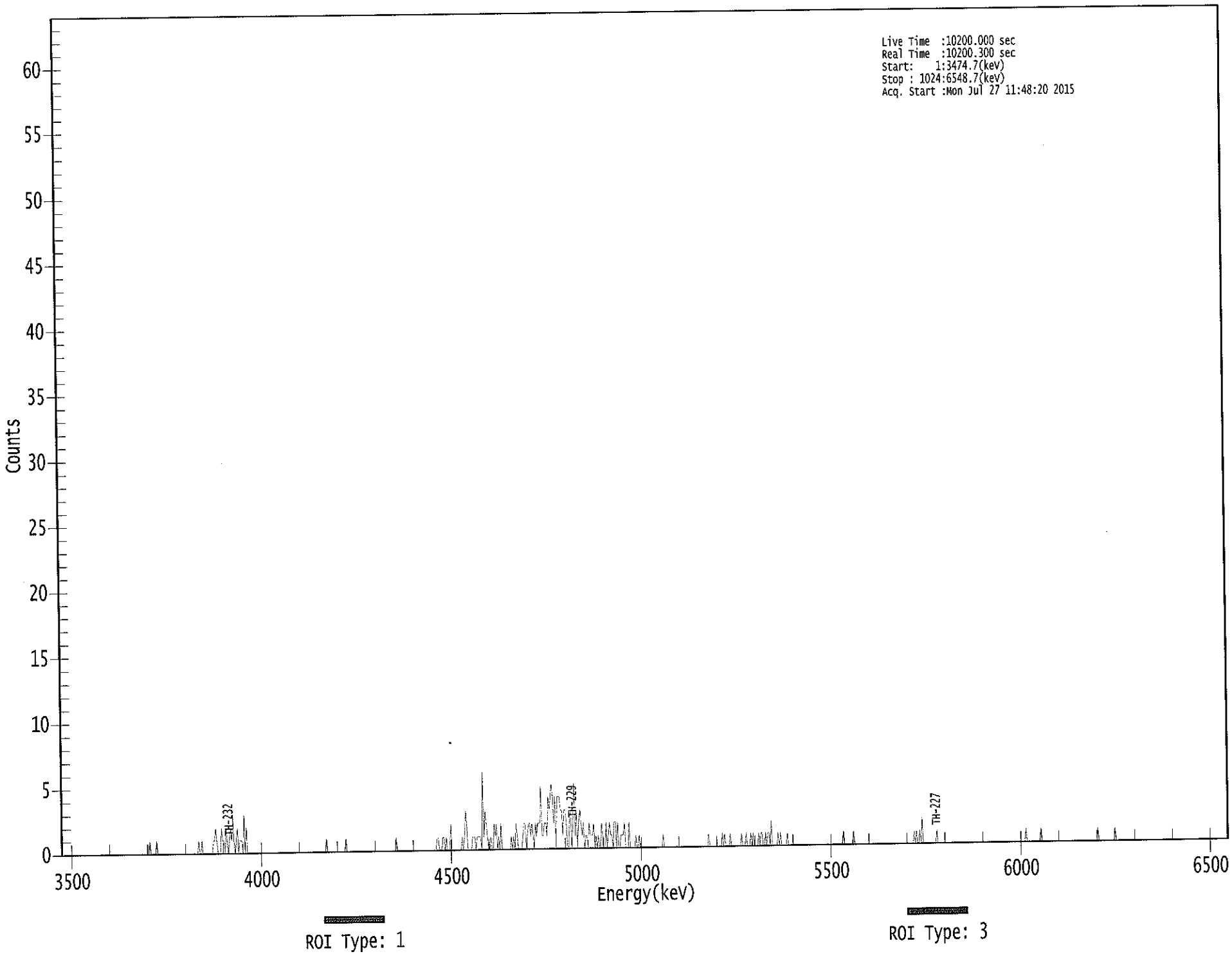
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.779	6.66	78.18	0.34	0.00E+000	3.0
TH-228		5.302	18.32	46.78	0.68	0.00E+000	3.0
TH-229	T	4.820	134.83	16.89	0.17	0.00E+000	4.4
TH-230		4.610	64.66	24.45	0.34	0.00E+000	3.3
TH-232		3.915	32.32	34.90	0.68	0.00E+000	4.5

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.974	5850.00*	1.14E-001 +/- 9.16E-002	8.20E-002 +/- 1.47E-002
TH-228	0.951	5400.00*	3.12E-001 +/- 1.56E-001	9.60E-002 +/- 1.72E-002
TH-229	0.986	4872.00*	2.26E+000 +/- 4.06E-001	7.00E-002 +/- 1.26E-002
TH-230	0.980	4672.00*	1.08E+000 +/- 3.28E-001	7.99E-002 +/- 1.44E-002
TH-232	0.966	3997.00*	5.39E-001 +/- 2.12E-001	9.41E-002 +/- 1.69E-002

0000124171.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	1	0	0
81:	0	0	0	1	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	1	0	0	1	0	0	0	0
129:	0	0	0	0	0	1	1	2
137:	1	0	0	0	2	1	1	0
145:	2	1	0	1	2	1	3	1
153:	0	1	2	0	1	1	1	0
161:	3	0	2	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	1	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	1	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	1	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	1	1	0	0	0	1	1
337:	0	1	0	0	0	2	0	0
345:	0	0	0	0	0	0	0	1
353:	0	1	3	2	0	0	0	0
361:	1	1	1	0	1	1	1	1

369:	0	6	1	3	2	1	0	0

Sample Title: 03

Channel								
377:	1	0	0	2	1	2	0	1
385:	0	2	0	0	0	0	0	0
393:	0	0	1	0	1	0	2	1
401:	0	0	0	0	1	2	2	0
409:	1	2	2	1	2	1	0	2
417:	1	2	2	2	5	1	1	2
425:	2	1	4	3	4	5	4	2
433:	4	0	4	4	4	3	3	1
441:	3	3	2	0	0	2	3	0
449:	2	5	1	3	0	2	3	2
457:	1	2	0	1	1	0	2	1
465:	1	1	2	0	1	0	1	0
473:	0	2	1	0	0	2	0	1
481:	2	1	1	0	2	2	0	2
489:	0	0	1	1	1	2	0	0
497:	0	2	0	0	0	0	0	1
505:	0	0	1	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	1
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	1
569:	0	0	0	0	0	0	0	0
577:	0	0	0	1	0	1	0	0
585:	0	0	1	0	0	0	0	0
593:	0	0	0	0	1	0	0	0
601:	1	0	0	0	1	0	1	0
609:	0	0	0	1	0	1	1	0
617:	0	1	0	1	1	0	2	0
625:	0	0	0	0	1	0	1	0
633:	0	0	0	0	1	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	1	0	0
689:	0	0	0	0	0	0	1	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	1	0	1	0	0
753:	1	0	2	0	0	0	0	0
761:	0	0	0	0	0	0	0	1
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	1	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	1	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	1	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	1	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/29/15

Sample Description: FEEBRIS1D-19 061-063
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-TH
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 124201
Reagent Blank: <not performed>

Sample Size: 1.055E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/8/2015 6:55:31 AM
Acquisition Date/Time: 7/27/2015 11:48:23 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.235 mL
Effective Efficiency: 0.1730 +/- 0.0149
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 0.9320 +/- 0.0821

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

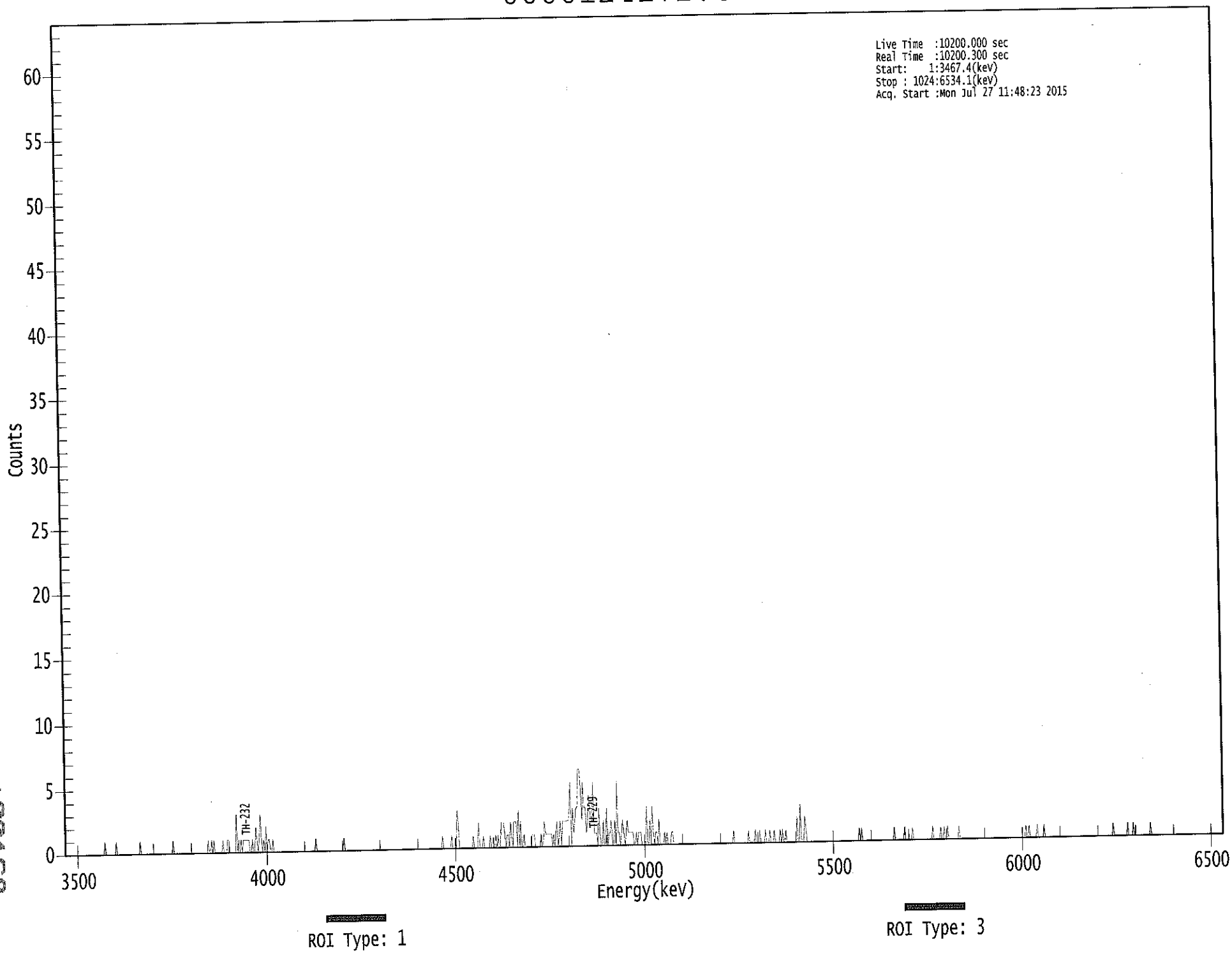
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.862	8.66	68.12	0.34	0.00E+000	3.0
TH-228		5.363	16.98	49.21	1.02	0.00E+000	3.0
TH-229	T	4.868	155.00	15.79	0.00	0.00E+000	11.0
TH-230		4.615	40.66	30.89	0.34	0.00E+000	5.2
TH-232		3.948	31.49	35.26	0.51	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	1.29E-001 +/- 9.07E-002	7.13E-002 +/- 1.21E-002
TH-228	0.993	5400.00*	2.52E-001 +/- 1.31E-001	9.33E-002 +/- 1.58E-002
TH-229	1.000	4872.00*	2.26E+000 +/- 3.83E-001	8.75E-002 +/- 1.48E-002
TH-230	0.983	4672.00*	5.92E-001 +/- 2.08E-001	6.96E-002 +/- 1.18E-002
TH-232	0.988	3997.00*	4.57E-001 +/- 1.79E-001	7.62E-002 +/- 1.29E-002

0000124172.CNF



89100 :

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	1	0	0	0	0
41:	0	0	0	0	0	1	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	1	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	1
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	1	0
129:	0	1	0	1	0	0	0	0
137:	0	0	0	1	0	0	0	1
145:	1	0	0	0	0	0	0	3
153:	0	1	0	1	0	1	1	1
161:	1	1	1	0	0	1	0	0
169:	2	1	0	1	3	1	0	1
177:	0	2	0	1	1	0	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	1	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	1	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	1	0	0
337:	0	0	0	0	0	1	0	0
345:	0	0	3	2	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	1	0	0	0	0	2	0	0

369:	0	1	0	0	0	0	0	1

Sample Title: 04

Channel								
377:	0	0	0	0	1	0	1	0
385:	0	2	2	2	1	0	1	1
393:	0	2	1	0	2	2	2	0
401:	3	0	2	0	0	1	0	0
409:	0	0	0	0	1	1	1	0
417:	0	0	0	0	1	0	0	2
425:	1	1	1	1	1	1	0	1
433:	0	1	2	0	1	2	0	2
441:	2	2	2	2	2	3	5	0
449:	3	1	2	3	3	6	6	5
457:	2	5	3	3	1	2	4	3
465:	2	2	5	1	1	1	0	3
473:	1	0	0	2	0	0	3	0
481:	1	1	2	0	0	2	0	5
489:	1	1	0	1	2	1	0	1
497:	2	1	1	1	1	1	0	0
505:	1	0	1	1	1	0	0	0
513:	0	3	0	0	2	0	3	1
521:	0	1	1	0	2	0	0	0
529:	0	1	0	1	0	0	0	1
537:	1	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	1	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	1	0	0	0	0
609:	0	1	0	0	0	1	0	0
617:	0	0	1	0	0	0	1	0
625:	0	0	1	0	0	0	0	1
633:	0	1	0	0	1	0	0	0
641:	0	0	0	0	0	0	2	0
649:	0	3	0	0	0	2	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	1	0	1
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	1	0	0	0
737:	0	0	0	0	0	1	0	0
745:	0	0	0	0	1	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	1	0
769:	0	0	0	0	0	1	0	0
777:	1	0	0	1	0	0	0	0
785:	0	0	0	0	0	1	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	1	0	0	1	0	0	0	0
857:	0	0	1	0	0	0	0	0
865:	1	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	1	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	1	0	0	0	0	1
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	1	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	DUPLICATE 3
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification:	1507092A-TH
Sample Identification:	05
Sample Geometry:	Shelf 2
Procedure Description:	Th iso
Detector Name:	Alpha_041
Chamber Serial Number:	05026930A
Detector Serial Number:	91087
Env. Background:	System Bkgd 124202
Reagent Blank:	<not performed>
Sample Size:	1.119E+000 +/- 0.000E+000 gram
Sample Date/Time:	7/8/2015 6:55:31 AM
Acquisition Date/Time:	7/27/2015 11:48:25 AM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	Th229_S_TH-18A
Tracer Quantity:	0.234 mL
Effective Efficiency:	0.1735 +/- 0.0150
Counting Efficiency:	0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor:	0.9260 +/- 0.0816
Peak Match Tolerance:	0.175 MeV

PEAK AREA REPORT

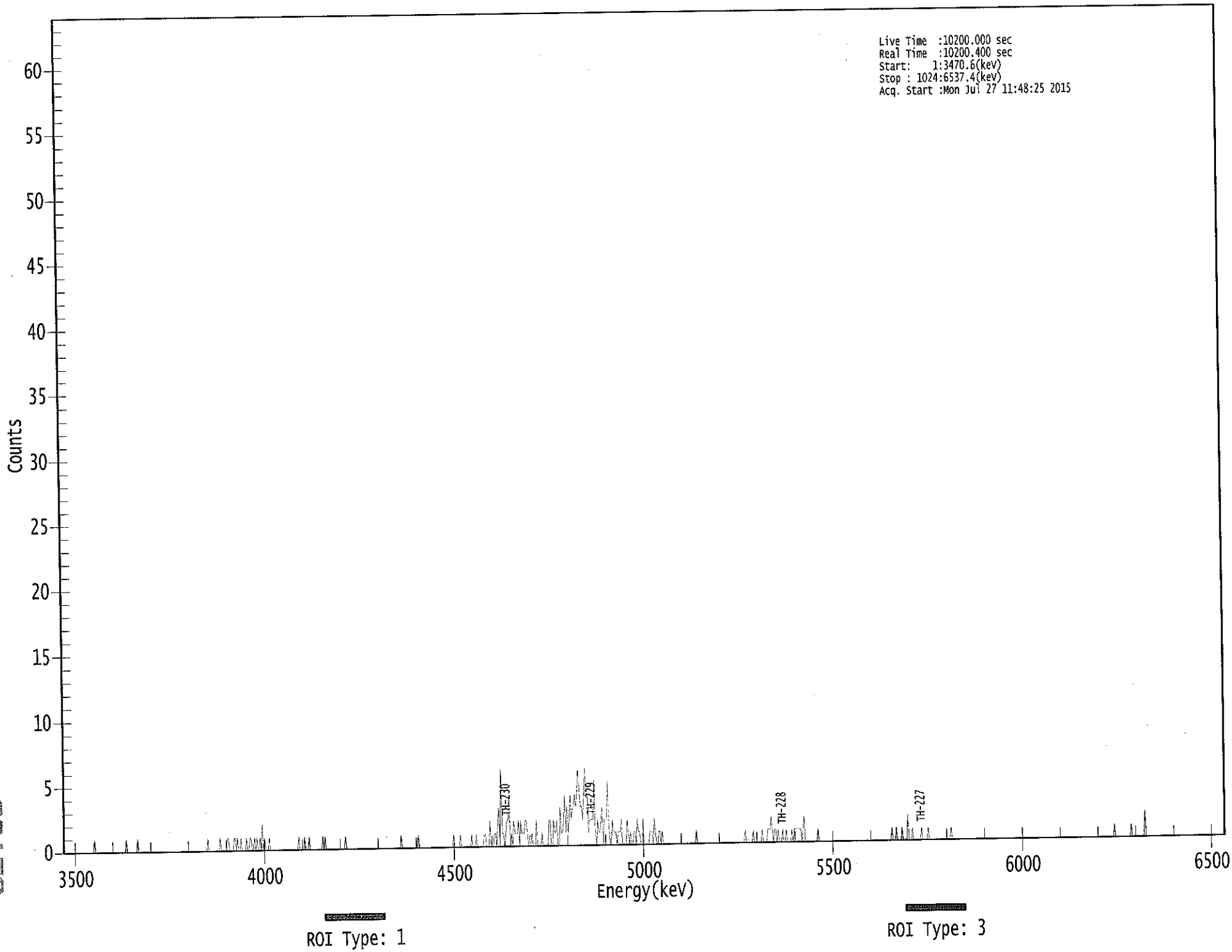
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.734	5.49	88.08	0.51	0.00E+000	3.0
TH-228		5.368	23.64	41.65	1.36	0.00E+000	6.0
TH-229	T	4.864	154.98	15.80	1.02	0.00E+000	12.0
TH-230		4.639	51.13	27.99	1.87	0.00E+000	3.3
TH-232		3.957	17.30	49.76	1.70	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.932	5850.00*	7.70E-002 +/- 6.91E-002	7.36E-002 +/- 1.25E-002
TH-228	0.995	5400.00*	3.29E-001 +/- 1.48E-001	9.55E-002 +/- 1.62E-002
TH-229	1.000	4872.00*	2.13E+000 +/- 3.60E-001	8.64E-002 +/- 1.46E-002
TH-230	0.994	4672.00*	6.99E-001 +/- 2.29E-001	1.04E-001 +/- 1.75E-002
TH-232	0.992	3997.00*	2.36E-001 +/- 1.24E-001	1.00E-001 +/- 1.70E-002

0000124179.CNF



00173

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	1	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	1
57:	0	0	0	0	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	1
129:	0	0	0	0	0	0	0	0
137:	0	0	1	0	0	0	0	0
145:	1	1	0	0	0	0	1	1
153:	0	1	0	0	1	0	0	0
161:	0	1	0	0	1	1	0	0
169:	1	0	1	0	0	1	0	2
177:	0	1	0	0	0	1	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	1
209:	0	0	0	0	1	0	0	0
217:	1	0	0	0	0	0	0	0
225:	0	0	0	0	1	0	1	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	1	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	1	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	1	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	1
345:	0	0	0	0	0	1	0	0
353:	0	0	0	0	0	0	0	1
361:	0	0	0	1	0	0	0	0

369:	0	0	1	1	0	0	0	2

Sample Title: 05

Channel								
377:	0	0	0	1	1	0	2	3
385:	0	6	1	1	0	1	2	2
393:	4	0	1	0	2	1	1	1
401:	2	0	2	1	1	1	2	2
409:	1	0	0	0	1	0	0	0
417:	2	0	0	0	0	1	0	0
425:	0	0	0	2	2	0	0	2
433:	1	1	2	0	0	3	1	1
441:	2	4	1	3	1	2	4	2
449:	3	3	4	3	4	6	4	3
457:	3	2	4	6	4	4	1	2
465:	2	2	2	5	1	0	2	1
473:	1	2	3	0	2	2	2	5
481:	2	0	0	2	1	1	1	0
489:	1	1	1	2	0	0	0	0
497:	2	1	0	1	0	0	1	1
505:	0	2	1	1	0	0	2	0
513:	0	0	0	0	1	1	1	0
521:	2	1	0	0	1	1	0	1
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	1	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	1	0	0	0	0	0	0	1
609:	0	0	0	0	0	0	0	1
617:	0	0	0	0	1	1	1	2
625:	1	0	1	1	0	1	0	0
633:	0	1	0	0	1	0	0	0
641:	0	1	0	1	1	1	1	1
649:	1	1	0	1	2	0	0	0
657:	0	0	0	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	1	0	0	0	1	0	0
737:	0	0	1	0	0	0	0	2
745:	0	0	0	1	0	0	0	0
753:	0	0	0	1	0	0	0	0
761:	0	1	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	1	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	1	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	1	0	0	0
945:	0	0	0	0	0	0	0	0
953:	2	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

XB 7/27/15

Sample Description: FEEBRIS1D-10 046-049
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-TH
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 124203
Reagent Blank: <not performed>

Sample Size: 1.155E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/9/2015 6:55:31 AM
Acquisition Date/Time: 7/27/2015 11:48:27 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.2061 +/- 0.0165
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 1.1862 +/- 0.0974

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

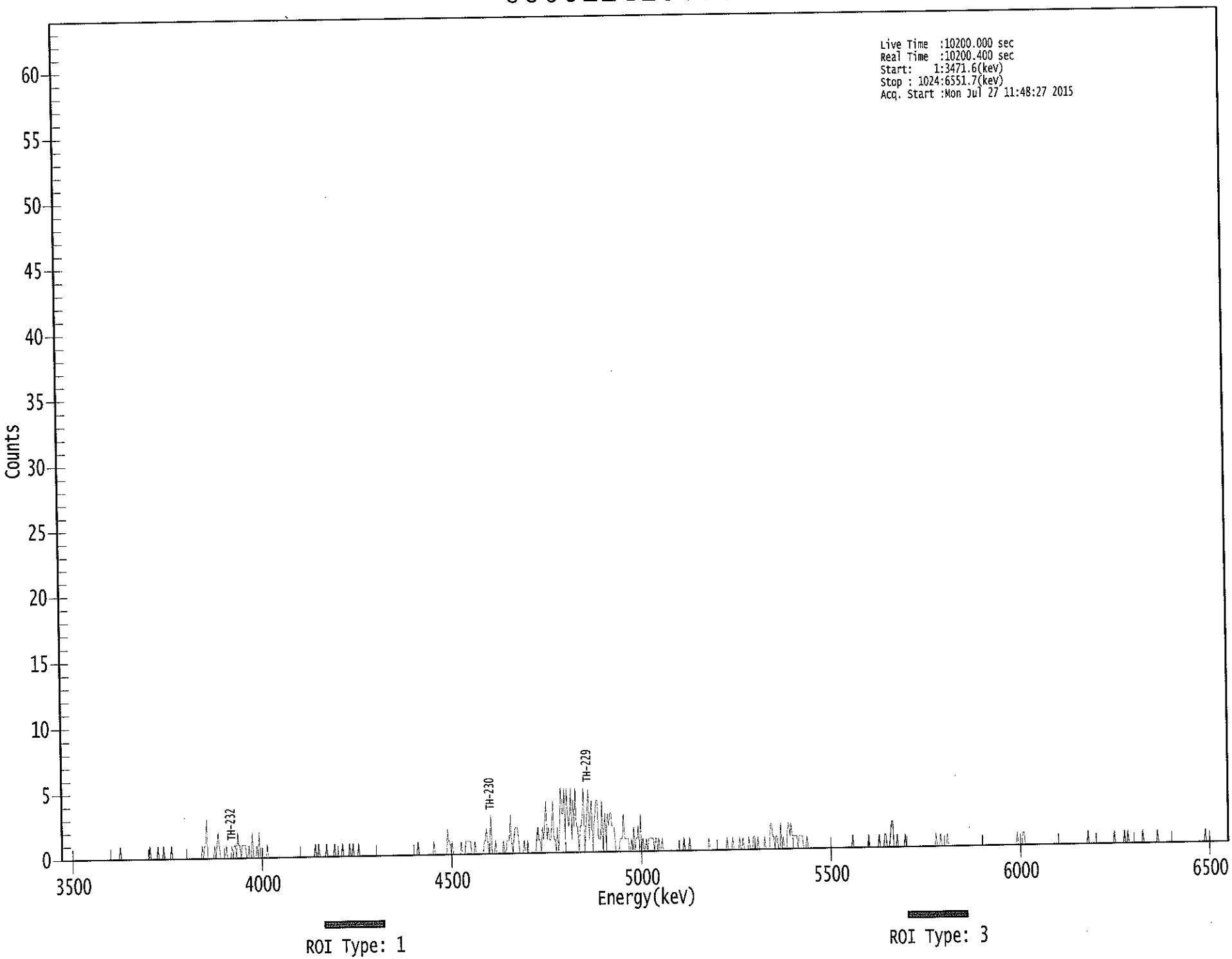
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.897	5.49	88.08	0.51	0.00E+000	3.0
TH-228		5.354	37.32	32.42	0.68	0.00E+000	7.5
TH-229	T	4.859	183.98	14.50	1.02	0.00E+000	13.4
TH-230		4.604	41.49	30.65	0.51	0.00E+000	3.8
TH-232		3.922	29.66	36.23	0.34	0.00E+000	3.8

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.988	5850.00*	6.28E-002 +/- 5.62E-002	6.00E-002 +/- 9.43E-003
TH-228	0.989	5400.00*	4.23E-001 +/- 1.53E-001	6.40E-002 +/- 1.01E-002
TH-229	0.999	4872.00*	2.06E+000 +/- 3.23E-001	7.05E-002 +/- 1.11E-002
TH-230	0.976	4672.00*	4.63E-001 +/- 1.59E-001	5.85E-002 +/- 9.20E-003
TH-232	0.971	3997.00*	3.30E-001 +/- 1.30E-001	5.32E-002 +/- 8.37E-003

0000124180.CNF



: 00178

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	1	0	0
81:	0	0	0	0	1	0	0	0
89:	0	1	0	0	0	0	0	0
97:	1	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	1	0	1	1	3
129:	0	0	0	0	0	0	1	0
137:	1	2	1	0	0	0	0	0
145:	1	0	0	0	0	1	0	1
153:	1	0	2	1	1	0	1	1
161:	1	1	0	0	1	0	0	2
169:	0	0	0	1	0	2	0	0
177:	0	0	0	0	1	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	1	0
225:	0	1	0	0	0	0	0	0
233:	1	0	0	0	0	0	0	1
241:	0	0	0	0	0	0	1	0
249:	0	0	0	0	1	0	0	1
257:	0	0	0	0	1	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	1	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	1	0
329:	0	0	0	0	0	0	0	0
337:	0	0	2	1	1	0	1	0
345:	0	0	0	0	0	0	1	0
353:	0	0	1	1	1	1	1	0
361:	0	0	1	0	0	0	0	0

369:	0	0	1	1	2	1	0	1

Sample Title: 06

Channel								
377:	3	0	0	0	1	0	0	0
385:	0	0	0	1	0	0	1	1
393:	1	3	1	0	1	2	2	2
401:	1	0	0	0	0	1	0	0
409:	1	0	0	0	0	0	0	0
417:	1	2	1	1	0	2	1	2
425:	4	1	2	1	1	2	4	1
433:	1	0	2	0	2	5	3	3
441:	5	1	5	3	2	3	5	1
449:	4	2	5	2	2	0	2	2
457:	3	5	0	2	3	5	1	3
465:	4	0	2	3	4	4	1	1
473:	1	4	0	2	3	0	3	2
481:	3	3	2	2	2	0	0	0
489:	0	1	1	1	3	1	1	1
497:	1	0	0	1	0	2	0	1
505:	1	2	0	3	0	1	0	0
513:	1	0	1	1	1	1	1	0
521:	1	1	0	1	0	0	1	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	1	0	0	0	0	1	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	1
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	1
585:	0	0	0	0	1	0	0	0
593:	0	0	1	0	0	1	0	0
601:	0	0	1	0	0	0	1	1
609:	0	0	1	0	0	0	0	0
617:	1	0	0	0	0	2	2	1
625:	1	0	1	1	0	0	2	0
633:	1	0	0	0	2	2	1	2
641:	1	1	1	1	1	0	1	1
649:	1	1	0	0	0	1	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	1	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	1	0	0	0	0
713:	0	0	0	0	1	0	0	0
721:	0	1	1	0	0	0	1	2
729:	2	0	0	0	1	0	0	0
737:	0	0	0	1	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	1	0
769:	0	0	1	0	0	0	0	0
777:	1	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	1	0	0
841:	0	0	1	1	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	1	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	1	0	0	0	0	0
929:	0	0	0	1	0	0	1	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	1	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	1	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	1	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 7/27/15

Sample Description: FEEBRIS1D-10 074-076
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001241
Batch Identification: 1507092A-TH
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 124204
Reagent Blank: <not performed>

Sample Size: 1.151E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/12/2015 6:55:31 AM
Acquisition Date/Time: 7/27/2015 11:48:30 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.2001 +/- 0.0163
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 1.0013 +/- 0.0832

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

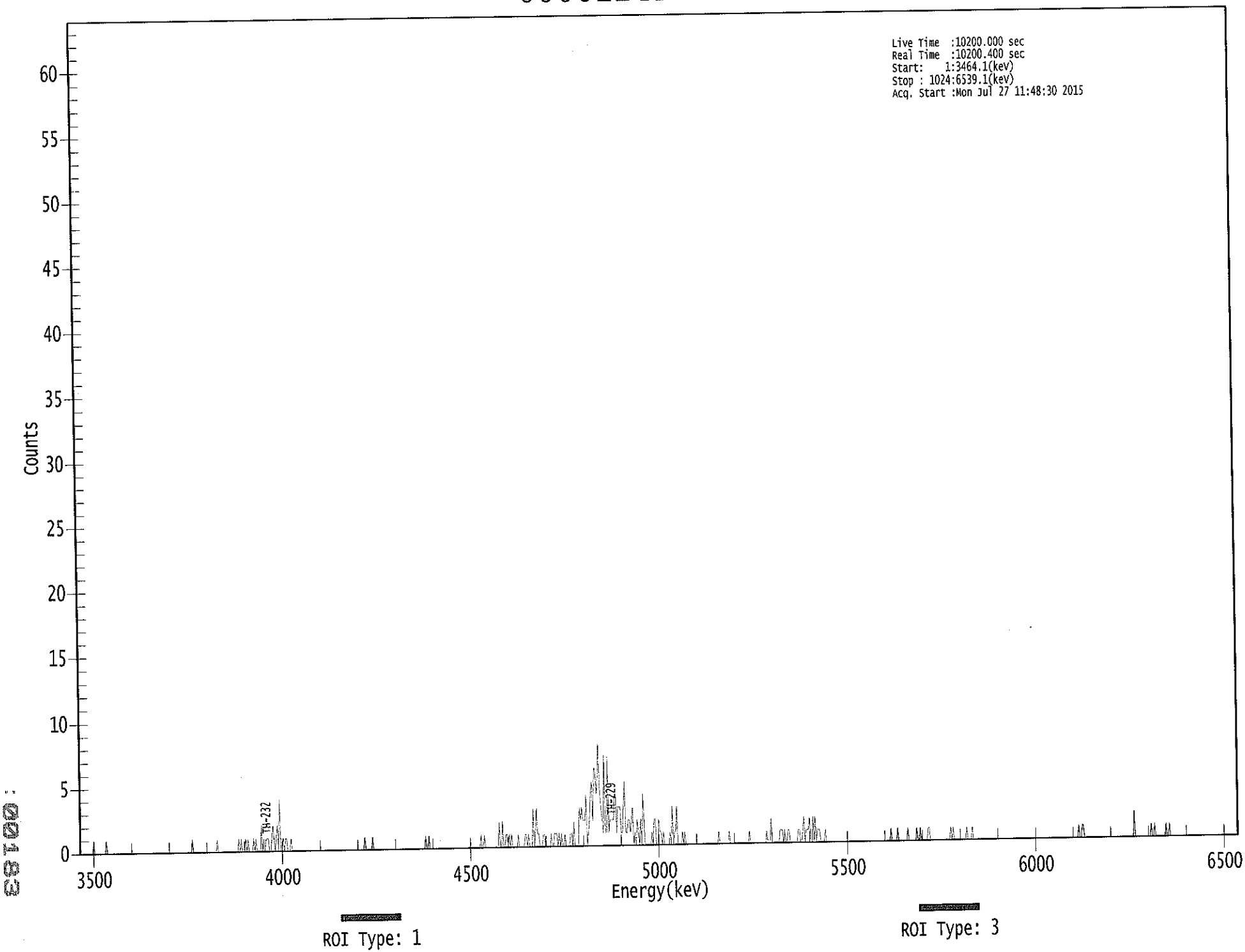
Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.774	5.32	91.11	0.68	0.00E+000	6.0
TH-228		5.357	28.30	38.12	1.70	0.00E+000	3.0
TH-229	T	4.876	178.15	14.73	0.85	0.00E+000	9.0
TH-230		4.639	26.49	38.51	0.51	0.00E+000	3.0
TH-232		3.960	27.66	37.53	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.970	5850.00*	6.29E-002 +/- 5.82E-002	6.67E-002 +/- 1.06E-002
TH-228	0.990	5400.00*	3.31E-001 +/- 1.37E-001	8.59E-002 +/- 1.37E-002
TH-229	1.000	4872.00*	2.06E+000 +/- 3.28E-001	6.93E-002 +/- 1.10E-002
TH-230	0.994	4672.00*	3.05E-001 +/- 1.27E-001	6.05E-002 +/- 9.64E-003
TH-232	0.993	3997.00*	3.18E-001 +/- 1.30E-001	5.50E-002 +/- 8.77E-003

0000124173.CNF



CS100:

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	1	0	0	0
17:	0	0	0	0	0	0	0	1
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	1	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	1	0	1	0
145:	0	0	1	0	1	0	0	0
153:	0	1	0	1	0	0	0	0
161:	2	0	1	0	1	1	1	0
169:	0	1	2	1	0	1	2	0
177:	4	0	0	1	0	1	1	0
185:	0	0	1	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	1	0	0	0	0
257:	0	0	1	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	1	0	0	1	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	1	0	0	1	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	2	0	0	2	0	0

Sample Title: 07

Channel								
377:	1	1	0	1	0	1	0	0
385:	0	0	0	1	0	0	0	0
393:	0	1	1	0	1	0	0	0
401:	3	0	1	3	1	1	0	0
409:	0	1	1	0	0	0	0	0
417:	1	0	0	1	1	1	0	1
425:	0	1	0	0	1	0	0	0
433:	0	1	1	0	2	0	0	0
441:	0	3	2	3	2	2	2	4
449:	0	1	2	4	5	2	6	6
457:	4	5	8	4	3	2	1	7
465:	1	1	7	1	2	2	2	2
473:	4	4	1	3	3	3	1	1
481:	3	5	1	1	2	2	1	2
489:	3	0	1	0	2	1	0	2
497:	0	4	2	0	0	0	0	0
505:	0	1	0	2	2	0	0	2
513:	1	1	0	1	0	0	0	0
521:	0	1	0	3	0	1	1	3
529:	0	0	0	0	1	0	1	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	1	0	0	0
569:	0	0	0	0	0	1	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	1
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	1	0
609:	0	0	2	0	0	0	0	0
617:	0	0	1	1	1	0	1	0
625:	0	1	1	0	0	0	0	0
633:	0	0	1	1	0	0	1	2
641:	0	1	1	1	2	0	0	2
649:	0	2	0	1	1	1	0	0
657:	0	0	1	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	1	0	0	0
721:	0	0	1	0	0	0	0	0
729:	0	0	0	1	0	0	0	0
737:	0	0	0	1	0	0	1	0
745:	0	0	0	0	0	1	1	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	1	0	1	0	0	0	0
777:	0	0	0	0	0	0	0	1
785:	0	0	0	0	1	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	1	0	0	1	1	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	2	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	1	0	0	1	0	0
953:	0	0	0	0	0	0	0	1
961:	0	0	1	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

7/27/2015 5:48:02 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 7/27/2015
Time : 5:48:02 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	7/27/2015 5:27:44 AM
Alpha_004	21f	ALL	Passed	7/27/2015 5:27:45 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	7/27/2015 5:27:46 AM
Alpha_011	21f	ALL	Passed	7/27/2015 5:27:47 AM
Alpha_012	21f	ALL	Passed	7/27/2015 5:27:48 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	7/27/2015 5:27:49 AM
Alpha_015	21f	Peak Energy	Action	7/27/2015 5:27:50 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:51 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:52 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:54 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:56 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:27:57 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	7/27/2015 5:27:59 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:01 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:03 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:05 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:07 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:09 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:12 AM
Alpha_045	Alpha Analyst100DC	ALL	Not Done	
Alpha_046	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:14 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:16 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:19 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:22 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:24 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:26 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:29 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:32 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:35 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:38 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:41 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:44 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:47 AM

Review of QA Results - Pulser Check

7/27/2015 5:48:02 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:50 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	7/27/2015 5:28:53 AM

APPROVED BY: _____

APPROVAL DATE: 7/27

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-07092
Gamma
Run 1

Work Order	15-07092
Analysis Code	Gamma
Run	1
Date Received	7/15/2015
Lab Deadline	8/5/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/15/15 00:00	1.0000E+00
02	MBL	BLANK		07/15/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-19 061-063	32	07/08/15 10:18	5.2010E+02
04	DO	FEEBRIS1D-19 061-063	32	07/08/15 10:18	5.2010E+02
05	TRG	DUPLICATE 3	33	07/08/15 10:18	5.1348E+02
06	TRG	FEEBRIS1D-10 046-049	34	07/09/15 12:10	3.4587E+02
07	TRG	FEEBRIS1D-10 074-076	39	07/12/15 10:41	3.5828E+02

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-07092
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								
05	TRG				0.00								
06	TRG				0.00								
07	TRG				0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Eberline Services
Oak Ridge Laboratory
Analysis Sheet

15-07092
Gamma
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	07/16/15 08:37	KSALLINGS						
05	TRG	07/16/15 08:37	KSALLINGS						
06	TRG	07/16/15 08:37	KSALLINGS						
07	TRG	07/16/15 08:37	KSALLINGS						

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-07092-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.40E+02	8.19E+00	9.03E-01	1.37E+02	102.35	OK		07/15/15 00:00	1.00E+00	08/04/15 09:17	YES
01	CS-137	LCS	LCS	pCi/g	9.08E+01	8.15E+00	1.08E+00	8.69E+01	104.46	OK		07/15/15 00:00	1.00E+00	08/04/15 09:17	YES
02	AC-228	MBL	BLANK	pCi/g	4.35E-02	6.69E-02	1.23E-01					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	BI-214	MBL	BLANK	pCi/g	8.26E-02	4.33E-02	8.52E-02					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	K-40	MBL	BLANK	pCi/g	1.13E-01	2.20E-01	4.10E-01					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	PA-231	MBL	BLANK	pCi/g	2.19E-01	6.37E-01	9.20E-01					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	PB-210	MBL	BLANK	pCi/g	1.06E+00	7.97E-01	1.29E+00					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	PB-212	MBL	BLANK	pCi/g	2.05E-02	3.66E-02	5.30E-02					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	PB-214	MBL	BLANK	pCi/g	5.86E-03	5.60E-02	7.55E-02					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	RA-226	MBL	BLANK	pCi/g	8.26E-02	4.33E-02	8.52E-02					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	RA-228	MBL	BLANK	pCi/g	4.35E-02	6.69E-02	1.23E-01					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	TH-234	MBL	BLANK	pCi/g	5.57E-01	2.77E-01	5.21E-01					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
02	TL-208	MBL	BLANK	pCi/g	6.38E-03	5.66E-02	9.04E-02					07/15/15 00:00	1.00E+00	08/04/15 09:17	NO
03	AC-228	DUP	FEEBRIS1D-19 061-063	pCi/g	1.19E+00	4.59E-01	7.70E-01					07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	BI-214	DUP	FEEBRIS1D-19 061-063	pCi/g	1.13E+00	3.06E-01	4.14E-01				OK	07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	K-40	DUP	FEEBRIS1D-19 061-063	pCi/g	1.86E+01	3.17E+00	2.17E-01				OK	07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	PA-231	DUP	FEEBRIS1D-19 061-063	pCi/g	-1.27E+00	2.45E+00	5.24E+00					07/08/15 10:18	5.20E+02	08/06/15 06:08	NO
03	PB-210	DUP	FEEBRIS1D-19 061-063	pCi/g	3.16E-01	8.99E-01	1.40E+00					07/08/15 10:18	5.20E+02	08/06/15 06:08	NO
03	PB-212	DUP	FEEBRIS1D-19 061-063	pCi/g	1.64E+00	3.33E-01	4.23E-01					07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	PB-214	DUP	FEEBRIS1D-19 061-063	pCi/g	9.74E-01	2.92E-01	4.71E-01				OK	07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	RA-226	DUP	FEEBRIS1D-19 061-063	pCi/g	1.13E+00	3.06E-01	4.14E-01					07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	RA-228	DUP	FEEBRIS1D-19 061-063	pCi/g	1.19E+00	4.59E-01	7.70E-01					07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	TH-234	DUP	FEEBRIS1D-19 061-063	pCi/g	2.54E+00	1.62E+00	2.66E+00					07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
03	TL-208	DUP	FEEBRIS1D-19 061-063	pCi/g	1.23E+00	3.21E-01	2.12E-01					07/08/15 10:18	5.20E+02	08/06/15 06:08	YES
04	AC-228	DO	FEEBRIS1D-19 061-063	pCi/g	1.23E+00	4.94E-01	9.73E-01					07/08/15 10:18	5.20E+02	08/06/15 07:15	NO
04	BI-214	DO	FEEBRIS1D-19 061-063	pCi/g	1.17E+00	3.17E-01	4.29E-01					07/08/15 10:18	5.20E+02	08/06/15 07:15	YES
04	K-40	DO	FEEBRIS1D-19 061-063	pCi/g	1.77E+01	3.17E+00	1.58E+00					07/08/15 10:18	5.20E+02	08/06/15 07:15	YES
04	PA-231	DO	FEEBRIS1D-19 061-063	pCi/g	-2.19E+00	2.76E+00	4.85E+00					07/08/15 10:18	5.20E+02	08/06/15 07:15	NO
04	PB-210	DO	FEEBRIS1D-19 061-063	pCi/g	4.20E-01	8.89E-01	1.39E+00					07/08/15 10:18	5.20E+02	08/06/15 07:15	NO
04	PB-212	DO	FEEBRIS1D-19 061-063	pCi/g	1.67E+00	3.65E-01	4.89E-01					07/08/15 10:18	5.20E+02	08/06/15 07:15	YES
04	PB-214	DO	FEEBRIS1D-19 061-063	pCi/g	1.24E+00	3.11E-01	4.88E-01					07/08/15 10:18	5.20E+02	08/06/15 07:15	YES
04	RA-226	DO	FEEBRIS1D-19 061-063	pCi/g	1.17E+00	3.17E-01	4.29E-01					07/08/15 10:18	5.20E+02	08/06/15 07:15	YES
04	RA-228	DO	FEEBRIS1D-19 061-063	pCi/g	1.23E+00	4.94E-01	9.73E-01					07/08/15 10:18	5.20E+02	08/06/15 07:15	NO
04	TH-234	DO	FEEBRIS1D-19 061-063	pCi/g	1.39E+00	1.35E+00	2.12E+00					07/08/15 10:18	5.20E+02	08/06/15 07:15	NO
04	TL-208	DO	FEEBRIS1D-19 061-063	pCi/g	8.37E-01	5.21E-01	8.28E-01					07/08/15 10:18	5.20E+02	08/06/15 07:15	YES
05	AC-228	TRG	DUPLICATE 3	pCi/g	1.08E+00	2.34E-01	5.52E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES
05	BI-214	TRG	DUPLICATE 3	pCi/g	1.28E+00	1.66E-01	2.01E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES
05	K-40	TRG	DUPLICATE 3	pCi/g	1.76E+01	2.05E+00	6.45E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES

15-07092

Work Order: 15-07092-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
05	PA-231	TRG	DUPLICATE 3	pCi/g	1.65E-01	7.08E-01	2.33E+00					07/08/15 10:18	5.13E+02	08/06/15 06:08	NO
05	PB-210	TRG	DUPLICATE 3	pCi/g	1.25E+00	1.47E+00	1.97E+00					07/08/15 10:18	5.13E+02	08/06/15 06:08	NO
05	PB-212	TRG	DUPLICATE 3	pCi/g	1.19E+00	1.45E-01	2.91E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES
05	PB-214	TRG	DUPLICATE 3	pCi/g	1.37E+00	1.42E-01	2.57E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES
05	RA-226	TRG	DUPLICATE 3	pCi/g	1.28E+00	1.66E-01	2.01E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES
05	RA-228	TRG	DUPLICATE 3	pCi/g	1.08E+00	2.34E-01	5.52E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES
05	TH-234	TRG	DUPLICATE 3	pCi/g	1.46E+00	1.41E+00	1.89E+00					07/08/15 10:18	5.13E+02	08/06/15 06:08	NO
05	TL-208	TRG	DUPLICATE 3	pCi/g	1.07E+00	1.51E-01	1.58E-01					07/08/15 10:18	5.13E+02	08/06/15 06:08	YES
06	AC-228	TRG	FEEBRIS1D-10 046-049	pCi/g	1.58E+00	2.75E-01	5.37E-01					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	BI-214	TRG	FEEBRIS1D-10 046-049	pCi/g	1.34E+00	2.25E-01	3.40E-01					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	K-40	TRG	FEEBRIS1D-10 046-049	pCi/g	2.10E+01	2.91E+00	1.70E+00					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	PA-231	TRG	FEEBRIS1D-10 046-049	pCi/g	-3.10E+00	2.92E+00	3.14E+00					07/09/15 12:10	3.46E+02	08/06/15 06:08	NO
06	PB-210	TRG	FEEBRIS1D-10 046-049	pCi/g	1.98E+00	2.33E+00	3.59E+00					07/09/15 12:10	3.46E+02	08/06/15 06:08	NO
06	PB-212	TRG	FEEBRIS1D-10 046-049	pCi/g	1.38E+00	1.99E-01	2.99E-01					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	PB-214	TRG	FEEBRIS1D-10 046-049	pCi/g	1.42E+00	1.87E-01	3.01E-01					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	RA-226	TRG	FEEBRIS1D-10 046-049	pCi/g	1.34E+00	2.25E-01	3.40E-01					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	RA-228	TRG	FEEBRIS1D-10 046-049	pCi/g	1.58E+00	2.75E-01	5.37E-01					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	TH-234	TRG	FEEBRIS1D-10 046-049	pCi/g	1.60E+00	1.59E+00	2.64E+00					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
06	TL-208	TRG	FEEBRIS1D-10 046-049	pCi/g	1.29E+00	2.02E-01	2.27E-01					07/09/15 12:10	3.46E+02	08/06/15 06:08	YES
07	AC-228	TRG	FEEBRIS1D-10 074-076	pCi/g	6.61E-01	2.28E-01	4.31E-01					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES
07	BI-214	TRG	FEEBRIS1D-10 074-076	pCi/g	8.11E-01	1.92E-01	2.60E-01					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES
07	K-40	TRG	FEEBRIS1D-10 074-076	pCi/g	1.06E+01	1.86E+00	9.89E-01					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES
07	PA-231	TRG	FEEBRIS1D-10 074-076	pCi/g	1.06E+00	2.28E+00	3.57E+00					07/12/15 10:41	3.58E+02	08/06/15 06:08	NO
07	PB-210	TRG	FEEBRIS1D-10 074-076	pCi/g	3.29E+00	1.77E+00	2.59E+00					07/12/15 10:41	3.58E+02	08/06/15 06:08	NO
07	PB-212	TRG	FEEBRIS1D-10 074-076	pCi/g	8.39E-01	1.46E-01	3.13E-01					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES
07	PB-214	TRG	FEEBRIS1D-10 074-076	pCi/g	7.51E-01	1.92E-01	3.34E-01					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES
07	RA-226	TRG	FEEBRIS1D-10 074-076	pCi/g	8.11E-01	1.92E-01	2.60E-01					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES
07	RA-228	TRG	FEEBRIS1D-10 074-076	pCi/g	6.61E-01	2.28E-01	4.31E-01					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES
07	TH-234	TRG	FEEBRIS1D-10 074-076	pCi/g	1.17E+00	1.66E+00	2.22E+00					07/12/15 10:41	3.58E+02	08/06/15 06:08	NO
07	TL-208	TRG	FEEBRIS1D-10 074-076	pCi/g	7.71E-01	1.94E-01	7.06E-02					07/12/15 10:41	3.58E+02	08/06/15 06:08	YES

9615 9615

Count Room Report
Client: AMO Environmental Decisio

15-07092-Gamma-1 (pCi/g) in SO
Tracer ID:

Printed: 7/16/2015 9:17 AM

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/15/15 00:00	1.0000				0.00		
02	MBL	BLANK	07/15/15 00:00	1.0000				0.00		
03	DUP	FEEBRIS1D-19 061-063	07/08/15 10:18	520.1000				0.00		
04	DO	FEEBRIS1D-19 061-063	07/08/15 10:18	520.1000				0.00		
05	TRG	DUPLICATE 3	07/08/15 10:18	513.4800				0.00		
06	TRG	FEEBRIS1D-10 046-049	07/09/15 12:10	345.8700				0.00		
07	TRG	FEEBRIS1D-10 074-076	07/12/15 10:41	358.2800				0.00		

GG1

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07092	1	Gamma	grams	8/5/2015	KSALLINGS

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dilution Data Dil Factor	Dilution Data Ratio	Aliquot Data Aliquot	Aliquot Data Net Equiv	MS Aliquot Data Aliquot	MS Aliquot Data Net Equiv	H-3 Solids Only Water Added (ml)	H-3 Solids Only H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-19 061-063	DUP					5.2010E+02	5.2010E+02				
04	FEEBRIS1D-19 061-063	DO					5.2010E+02	5.2010E+02				
05	DUPLICATE 3	TRG					5.1348E+02	5.1348E+02				
06	FEEBRIS1D-10 046-049	TRG					3.4587E+02	3.4587E+02				
07	FEEBRIS1D-10 074-076	TRG					3.5828E+02	3.5828E+02				

Comments	

Technician: Kerry Sai Date: 7/16/15

:00197

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/16/2015 8:37 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07092	8/5/2015	7/15/2015	7/16/2015	7/17/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-19 061-063	28.8700	1711.3000	1410.2200	1682.4300	1381.3500	17.90%	82.10%			
05	DUPLICATE 3	28.9000	1359.3400	1127.1200	1330.4400	1098.2200	17.45%	82.55%			
06	FEEBRIS1D-10 046-049	43.4500	1634.0000	1294.8400	1590.5500	1251.3900	21.32%	78.68%			
07	FEEBRIS1D-10 074-076	29.1400	1344.7200	999.6600	1315.5800	970.5200	26.23%	73.77%			

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

Technician: Kenny Sallings Date: **Analysis: Rough Prep Logbook**

Analysis: Gamma Page No. 9340

Eckert & Ziegler
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Fax 404·352·2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00199

Apex-Gamma

Analysis Report for 1507092-01
GAS-1302

814

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507092-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 9:13:39AM
Acquisition Started	: 8/4/2015 9:17:19AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1828.9 seconds
Dead Time	: 1.58 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 17 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25518

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/6/15

Analysis Report for 1507092-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 8/4/2015 9:47:52AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	32.30	32.66	0.0000	0.00
2	49.78	50.13	0.0000	0.00
3	52.78	53.13	0.0000	0.00
4	59.52	59.87	0.0000	0.00
5	68.75	69.10	0.0000	0.00
6	88.09	88.43	0.0000	0.00
7	122.15	122.48	0.0000	0.00
8	136.59	136.92	0.0000	0.00
9	165.95	166.27	0.0000	0.00
10	186.83	187.13	0.0000	0.00
11	215.25	215.54	0.0000	0.00
12	239.28	239.57	0.0000	0.00
13	391.51	391.75	0.0000	0.00
14	553.29	553.47	0.0000	0.00
15	608.91	609.07	0.0000	0.00
16	661.69	661.84	0.0000	0.00
17	897.91	897.97	0.0000	0.00
18	1173.20	1173.16	0.0000	0.00
19	1176.60	1176.56	0.0000	0.00
20	1332.47	1332.38	0.0000	0.00
21	1461.17	1461.03	0.0000	0.00
22	1836.10	1835.82	0.0000	0.00
23	2149.35	2148.95	0.0000	0.00
24	2475.13	2474.60	0.0000	0.00
25	2505.32	2504.78	0.0000	0.00
26	2613.48	2612.90	0.0000	0.00
27	2732.55	2731.92	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507092-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/4/2015 9:47:52AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	32.30	31 -	35	32.66	2.27E+03	240.26	1.08E+04	2.11
M	2	49.78	45 -	63	50.13	5.17E+03	333.75	1.71E+04	1.41
m	3	52.78	45 -	63	53.13	5.15E+03	346.20	1.73E+04	1.41
m	4	59.52	45 -	63	59.87	8.50E+04	682.76	1.82E+04	1.43
	5	68.75	67 -	72	69.10	7.48E+02	384.77	2.90E+04	5.27
	6	88.09	83 -	93	88.43	5.00E+04	715.12	4.07E+04	1.96
	7	122.15	118 -	127	122.48	1.16E+04	446.43	2.17E+04	1.94
	8	136.59	134 -	140	136.92	1.49E+03	281.17	1.32E+04	1.31
	9	165.95	163 -	170	166.27	2.04E+03	302.64	1.39E+04	1.60
	10	186.83	181 -	193	187.13	4.52E+02	435.84	2.22E+04	4.98
	11	215.25	214 -	218	215.54	1.88E+02	204.48	9.14E+03	2.86
	12	239.28	237 -	242	239.57	3.00E+02	223.63	9.76E+03	2.79
	13	391.51	388 -	394	391.75	8.43E+02	209.26	7.35E+03	1.49
	14	553.29	550 -	556	553.47	1.39E+02	157.66	4.40E+03	1.76
	15	608.91	607 -	612	609.07	1.12E+02	131.05	3.33E+03	2.04
	16	661.69	656 -	667	661.84	3.33E+04	436.18	7.14E+03	1.81
	17	897.91	894 -	902	897.97	7.32E+02	203.36	5.92E+03	2.02
M	18	1173.20	1168 -	1182	1173.16	3.05E+04	361.28	1.63E+03	2.03
m	19	1176.60	1168 -	1182	1176.56	5.75E+02	334.78	1.79E+03	2.52
	20	1332.47	1326 -	1337	1332.38	2.78E+04	350.28	1.41E+03	2.19
	21	1461.17	1458 -	1464	1461.03	3.15E+01	32.99	1.75E+02	1.31
	22	1836.10	1831 -	1842	1835.82	4.73E+02	56.57	1.50E+02	2.55
	23	2149.35	2147 -	2151	2148.95	1.51E+01	14.47	3.38E+01	2.70
	24	2475.13	2472 -	2477	2474.60	1.00E+01	6.32	0.00E+00	2.00
	25	2505.32	2500 -	2511	2504.78	3.96E+02	42.00	1.89E+01	2.62
	26	2613.48	2609 -	2616	2612.90	2.00E+01	11.31	8.00E+00	2.50
	27	2732.55	2728 -	2735	2731.92	1.30E+01	7.21	0.00E+00	1.28

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/4/2015 9:47:52AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	32.30	31 -	35	2.27E+03	240.26	1.08E+04	1.81E+02
M	2	49.78	45 -	63	5.17E+03	333.75	1.71E+04	2.15E+02
m	3	52.78	45 -	63	5.15E+03	346.20	1.73E+04	2.16E+02
m	4	59.52	45 -	63	8.50E+04	682.76	1.82E+04	2.22E+02
	5	68.75	67 -	72	7.48E+02	384.77	2.90E+04	3.13E+02
	6	88.09	83 -	93	5.00E+04	715.12	4.07E+04	4.59E+02
	7	122.15	118 -	127	1.16E+04	446.43	2.17E+04	3.22E+02
	8	136.59	134 -	140	1.49E+03	281.17	1.32E+04	2.22E+02
	9	165.95	163 -	170	2.04E+03	302.64	1.39E+04	2.37E+02
	10	186.83	181 -	193	4.52E+02	435.84	2.22E+04	1.51E+02
	11	215.25	214 -	218	1.88E+02	204.48	9.14E+03	1.67E+02
	12	239.28	237 -	242	3.00E+02	223.63	9.76E+03	1.82E+02
	13	391.51	388 -	394	8.43E+02	209.26	7.35E+03	1.65E+02
	14	553.29	550 -	556	1.39E+02	157.66	4.40E+03	1.28E+02
	15	608.91	607 -	612	1.12E+02	131.05	3.33E+03	1.06E+02
	16	661.69	656 -	667	3.33E+04	436.18	7.14E+03	1.97E+02
	17	897.91	894 -	902	7.32E+02	203.36	5.92E+03	1.61E+02
M	18	1173.20	1168 -	1182	3.05E+04	361.28	1.63E+03	6.64E+01
m	19	1176.60	1168 -	1182	5.75E+02	334.78	1.79E+03	6.96E+01
	20	1332.47	1326 -	1337	2.78E+04	350.28	1.41E+03	8.78E+01
	21	1461.17	1458 -	1464	3.15E+01	32.99	1.75E+02	2.55E+01
	22	1836.10	1831 -	1842	4.73E+02	56.57	1.50E+02	2.97E+01
	23	2149.35	2147 -	2151	1.51E+01	14.47	3.38E+01	1.00E+01
	24	2475.13	2472 -	2477	1.00E+01	6.32	0.00E+00	0.00E+00
	25	2505.32	2500 -	2511	3.96E+02	42.00	1.89E+01	1.11E+01
	26	2613.48	2609 -	2616	2.00E+01	11.31	8.00E+00	5.70E+00
	27	2732.55	2728 -	2735	1.30E+01	7.21	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-01

GAS-1302

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/4/2015 9:47:52AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	32.30	31 -	35	32.66	2.27E+03	240.26	1.08E+04	.....
M	2	49.78	45 -	63	50.13	5.17E+03	333.75	1.71E+04	TE-132
									TH-227
m	3	52.78	45 -	63	53.13	5.15E+03	346.20	1.73E+04	.....
m	4	59.52	45 -	63	59.87	8.50E+04	682.76	1.82E+04	AM-241
	5	68.75	67 -	72	69.10	7.48E+02	384.77	2.90E+04	TI-44
	6	88.09	83 -	93	88.43	5.00E+04	715.12	4.07E+04	CD-109
									LU-176
									SN-126
	7	122.15	118 -	127	122.48	1.16E+04	446.43	2.17E+04	CO-57
									EU-152
									EU-154
	8	136.59	134 -	140	136.92	1.49E+03	281.17	1.32E+04	CO-57
									SE-75
	9	165.95	163 -	170	166.27	2.04E+03	302.64	1.39E+04	CE-139
	10	186.83	181 -	193	187.13	4.52E+02	435.84	2.22E+04	RA-226
	11	215.25	214 -	218	215.54	1.88E+02	204.48	9.14E+03	.....
	12	239.28	237 -	242	239.57	3.00E+02	223.63	9.76E+03	PB-212
	13	391.51	388 -	394	391.75	8.43E+02	209.26	7.35E+03	SN-113
	14	553.29	550 -	556	553.47	1.39E+02	157.66	4.40E+03	RB-83
	15	608.91	607 -	612	609.07	1.12E+02	131.05	3.33E+03	BI-214
	16	661.69	656 -	667	661.84	3.33E+04	436.18	7.14E+03	CS-137
	17	897.91	894 -	902	897.97	7.32E+02	203.36	5.92E+03	Y-88
M	18	1173.20	1168 -	1182	1173.16	3.05E+04	361.28	1.63E+03	CO-60
m	19	1176.60	1168 -	1182	1176.56	5.75E+02	334.78	1.79E+03	.....
	20	1332.47	1326 -	1337	1332.38	2.78E+04	350.28	1.41E+03	CO-60
	21	1461.17	1458 -	1464	1461.03	3.15E+01	32.99	1.75E+02	K-40
	22	1836.10	1831 -	1842	1835.82	4.73E+02	56.57	1.50E+02	Y-88
	23	2149.35	2147 -	2151	2148.95	1.51E+01	14.47	3.38E+01	.....
	24	2475.13	2472 -	2477	2474.60	1.00E+01	6.32	0.00E+00	.....
	25	2505.32	2500 -	2511	2504.78	3.96E+02	42.00	1.89E+01	.....
	26	2613.48	2609 -	2616	2612.90	2.00E+01	11.31	8.00E+00	.....
	27	2732.55	2728 -	2735	2731.92	1.30E+01	7.21	0.00E+00	.....

Analysis Report for 1507092-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/4/2015 9:47:52AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	32.30	2.27E+03	240.26	6.21E-03	1.78E-03
M	2	49.78	5.17E+03	333.75	1.89E-02	1.78E-03
m	3	52.78	5.15E+03	346.20	2.05E-02	1.78E-03
m	4	59.52	8.50E+04	682.76	2.36E-02	1.78E-03
	5	68.75	7.48E+02	384.77	2.64E-02	2.09E-03
	6	88.09	5.00E+04	715.12	2.85E-02	2.74E-03
	7	122.15	1.16E+04	446.43	2.72E-02	2.07E-03
	8	136.59	1.49E+03	281.17	2.61E-02	2.10E-03
	9	165.95	2.04E+03	302.64	2.38E-02	2.18E-03
	10	186.83	4.52E+02	435.84	2.23E-02	2.02E-03
	11	215.25	1.88E+02	204.48	2.05E-02	1.81E-03
	12	239.28	3.00E+02	223.63	1.92E-02	1.63E-03
	13	391.51	8.43E+02	209.26	1.37E-02	1.11E-03
	14	553.29	1.39E+02	157.66	1.06E-02	9.46E-04
	15	608.91	1.12E+02	131.05	9.83E-03	8.89E-04
	16	661.69	3.33E+04	436.18	9.22E-03	8.34E-04
	17	897.91	7.32E+02	203.36	7.23E-03	6.22E-04
M	18	1173.20	3.05E+04	361.28	5.85E-03	4.79E-04
m	19	1176.60	5.75E+02	334.78	5.84E-03	4.79E-04
	20	1332.47	2.78E+04	350.28	5.31E-03	4.51E-04
	21	1461.17	3.15E+01	32.99	4.97E-03	4.19E-04
	22	1836.10	4.73E+02	56.57	4.30E-03	3.26E-04
	23	2149.35	1.51E+01	14.47	3.99E-03	3.26E-04
	24	2475.13	1.00E+01	6.32	3.82E-03	3.26E-04
	25	2505.32	3.96E+02	42.00	3.82E-03	3.26E-04
	26	2613.48	2.00E+01	11.31	3.79E-03	3.26E-04
	27	2732.55	1.30E+01	7.21	3.79E-03	3.26E-04

Analysis Report for 1507092-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/4/2015 9:47:52AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	32.30	2.27E+03	240.26			2.27E+03	2.40E+02
M	2	49.78	5.17E+03	333.75			5.17E+03	3.34E+02
m	3	52.78	5.15E+03	346.20			5.15E+03	3.46E+02
m	4	59.52	8.50E+04	682.76	3.49E+00	1.58E+00	8.50E+04	6.83E+02
	5	68.75	7.48E+02	384.77			7.48E+02	3.85E+02
	6	88.09	5.00E+04	715.12			5.00E+04	7.15E+02
	7	122.15	1.16E+04	446.43			1.16E+04	4.46E+02
	8	136.59	1.49E+03	281.17			1.49E+03	2.81E+02
	9	165.95	2.04E+03	302.64			2.04E+03	3.03E+02
	10	186.83	4.52E+02	435.84			4.52E+02	4.36E+02
	11	215.25	1.88E+02	204.48			1.88E+02	2.04E+02
	12	239.28	3.00E+02	223.63	9.49E+00	2.82E+00	2.90E+02	2.24E+02
	13	391.51	8.43E+02	209.26			8.43E+02	2.09E+02
	14	553.29	1.39E+02	157.66			1.39E+02	1.58E+02
	15	608.91	1.12E+02	131.05	4.00E+00	2.07E+00	1.08E+02	1.31E+02
	16	661.69	3.33E+04	436.18			3.33E+04	4.36E+02
	17	897.91	7.32E+02	203.36			7.32E+02	2.03E+02
M	18	1173.20	3.05E+04	361.28			3.05E+04	3.61E+02
m	19	1176.60	5.75E+02	334.78			5.75E+02	3.35E+02
	20	1332.47	2.78E+04	350.28	3.94E-02	1.14E+00	2.78E+04	3.50E+02
	21	1461.17	3.15E+01	32.99	2.75E+00	1.08E+00	2.87E+01	3.30E+01
	22	1836.10	4.73E+02	56.57			4.73E+02	5.66E+01
	23	2149.35	1.51E+01	14.47			1.51E+01	1.45E+01
	24	2475.13	1.00E+01	6.32			1.00E+01	6.32E+00
	25	2505.32	3.96E+02	42.00			3.96E+02	4.20E+01
	26	2613.48	2.00E+01	11.31	1.97E+00	6.68E-01	1.80E+01	1.13E+01
	27	2732.55	1.30E+01	7.21			1.30E+01	7.21E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-01

GAS-1302

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/4/2015 9:47:52AM

Ref. Peak Energy : 0.00 Reference Date :

Peak Ratio : 0.00 Uncertainty : 0.00

Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	32.30	2.27E+03	240.26			2.27E+03	2.40E+02
M	2	49.78	5.17E+03	333.75			5.17E+03	3.34E+02
m	3	52.78	5.15E+03	346.20			5.15E+03	3.46E+02
m	4	59.52	8.50E+04	682.76	3.49E+00	1.58E+00	8.50E+04	6.83E+02
	5	68.75	7.48E+02	384.77			7.48E+02	3.85E+02
	6	88.09	5.00E+04	715.12			5.00E+04	7.15E+02
	7	122.15	1.16E+04	446.43			1.16E+04	4.46E+02
	8	136.59	1.49E+03	281.17			1.49E+03	2.81E+02
	9	165.95	2.04E+03	302.64			2.04E+03	3.03E+02
	10	186.83	4.52E+02	435.84			4.52E+02	4.36E+02
	11	215.25	1.88E+02	204.48			1.88E+02	2.04E+02
	12	239.28	3.00E+02	223.63	9.49E+00	2.82E+00	2.90E+02	2.24E+02
	13	391.51	8.43E+02	209.26			8.43E+02	2.09E+02
	14	553.29	1.39E+02	157.66			1.39E+02	1.58E+02
	15	608.91	1.12E+02	131.05	4.00E+00	2.07E+00	1.08E+02	1.31E+02
	16	661.69	3.33E+04	436.18			3.33E+04	4.36E+02
	17	897.91	7.32E+02	203.36			7.32E+02	2.03E+02
M	18	1173.20	3.05E+04	361.28			3.05E+04	3.61E+02
m	19	1176.60	5.75E+02	334.78			5.75E+02	3.35E+02
	20	1332.47	2.78E+04	350.28	3.94E-02	1.14E+00	2.78E+04	3.50E+02
	21	1461.17	3.15E+01	32.99	2.75E+00	1.08E+00	2.87E+01	3.30E+01
	22	1836.10	4.73E+02	56.57			4.73E+02	5.66E+01
	23	2149.35	1.51E+01	14.47			1.51E+01	1.45E+01
	24	2475.13	1.00E+01	6.32			1.00E+01	6.32E+00
	25	2505.32	3.96E+02	42.00			3.96E+02	4.20E+01
	26	2613.48	2.00E+01	11.31	1.97E+00	6.68E-01	1.80E+01	1.13E+01
	27	2732.55	1.30E+01	7.21			1.30E+01	7.21E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-01

GAS-1302

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.979	1460.81	*	10.67	1.11E+00	1.27E+00
CO-57	0.960	122.06	*	85.51	7.16E+01	6.14E+00
		136.48	*	10.60	7.76E+01	1.61E+01
CO-60	0.999	1173.22	*	100.00	1.40E+02	1.16E+01
		1332.49	*	100.00	1.41E+02	1.21E+01
Y-88	0.772	898.02	*	93.40	3.18E+02	9.25E+01
		1836.01	*	99.38	3.25E+02	4.60E+01
CD-109	0.986	88.03	*	3.72	3.01E+03	3.43E+02
SN-113	0.756	255.12		1.93		
		391.69	*	64.90	1.93E+02	5.08E+01
SN-126	0.957	87.57	*	37.00	9.68E+01	9.40E+00
CS-137	1.000	661.65	*	85.12	9.08E+01	8.32E+00
CE-139	0.856	165.85	*	80.35	1.02E+02	1.77E+01
PB-212	0.834	238.63	*	44.60	6.92E-01	5.36E-01
		300.09		3.41		
BI-214	0.416	609.31	*	46.30	4.85E-01	5.90E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
RA-226	0.941	186.21	*	3.28	1.26E+01	2.61E+01
AM-241	1.000	59.54	*	35.90	2.05E+02	1.56E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/4/2015 9:47:52AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1507092-01

GAS-1302

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.30	1.25972E+00	5.30		
M	2	49.78	2.87050E+00	3.23	Tol.	TE-132 TH-227
m	3	52.78	2.85854E+00	3.36		
	5	68.75	4.15758E-01	25.71		
	11	215.25	1.04447E-01	54.38		
	14	553.29	7.74462E-02	56.55		
m	19	1176.60	3.19479E-01	29.11		
	23	2149.35	8.38542E-03	47.92		
	24	2475.13	5.55556E-03	31.62		
	25	2505.32	2.19752E-01	5.31	Sum	
	26	2613.48	1.00167E-02	31.43		
	27	2732.55	7.22222E-03	27.74		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.11E+00	1.27E+00
CO-57	0.96	122.06	*	85.51	7.16E+01	6.14E+00
		136.48	*	10.60	7.76E+01	1.61E+01
CO-60	0.99	1173.22	*	100.00	1.40E+02	1.16E+01
		1332.49	*	100.00	1.41E+02	1.21E+01
Y-88	0.77	898.02	*	93.40	3.18E+02	9.25E+01
		1836.01	*	99.38	3.25E+02	4.60E+01
CD-109	0.98	88.03	*	3.72	3.01E+03	3.43E+02
SN-113	0.75	255.12		1.93		
		391.69	*	64.90	1.93E+02	5.08E+01
SN-126	0.95	87.57	*	37.00	9.68E+01	9.40E+00
CS-137	1.00	661.65	*	85.12	9.08E+01	8.32E+00
CE-139	0.85	165.85	*	80.35	1.02E+02	1.77E+01
PB-212	0.83	238.63	*	44.60	6.92E-01	5.36E-01
		300.09		3.41		

Analysis Report for 1507092-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.41	609.31	*	46.30	4.85E-01	5.90E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
RA-226	0.94	186.21	*	3.28	1.26E+01	2.61E+01
AM-241	1.00	59.54	*	35.90	2.05E+02	1.56E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.979	1.11E+00	1.27E+00	
	CO-57	0.960	7.23E+01	5.75E+00	
	CO-60	0.999	1.40E+02	8.36E+00	
	Y-88	0.772	3.23E+02	4.12E+01	
?	CD-109	0.986	3.01E+03	3.43E+02	
	SN-113	0.756	1.93E+02	5.08E+01	
?	SN-126	0.957	9.68E+01	9.40E+00	
	CS-137	1.000	9.08E+01	8.32E+00	
	CE-139	0.856	1.02E+02	1.77E+01	
	PB-212	0.834	6.92E-01	5.36E-01	
	BI-214	0.416	4.85E-01	5.90E-01	
	RA-226	0.941	1.26E+01	2.61E+01	
	AM-241	1.000	2.05E+02	1.56E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507092-01
GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/4/2015 9:47:52AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.30	1.25972E+00	5.30		
M	2	49.78	2.87050E+00	3.23	Tol.	TE-132 TH-227
m	3	52.78	2.85854E+00	3.36		
	5	68.75	4.15758E-01	25.71		
	11	215.25	1.04447E-01	54.38		
	14	553.29	7.74462E-02	56.55		
m	19	1176.60	3.19479E-01	29.11		
	23	2149.35	8.38542E-03	47.92		
	24	2475.13	5.55556E-03	31.62		
	25	2505.32	2.19752E-01	5.31	Sum	
	26	2613.48	1.00167E-02	31.43		
	27	2732.55	7.22222E-03	27.74		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59	10.42	7.96E+04	9.27E+04	9.27E+04
+		NA-22	1274.54	99.94	5.03E-02	5.11E-01	5.11E-01
+	@	NA-24	1368.53	99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09	99.86	1.00E+26		1.00E+26

Analysis Report for 1507092-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		AL-26	1808.65		99.76	-1.69E-02	1.80E-01	1.80E-01
+		K-40	1460.81	*	10.67	1.11E+00	2.08E+00	2.08E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	6.84E-01	4.02E-01	4.42E-01
			78.34		96.00	-7.84E-02		4.02E-01
+		SC-46	889.25		99.98	3.33E+01	3.29E+02	3.48E+02
			1120.51		99.99	-7.57E+01		3.29E+02
+		V-48	983.52		99.98	-5.36E+13	7.74E+13	1.61E+14
			1312.10		97.50	-1.01E+13		7.74E+13
+		CR-51	320.08		9.83	-2.47E+08	6.57E+08	6.57E+08
+		MN-54	834.83		99.97	4.69E-01	3.03E+00	3.03E+00
+		CO-56	846.75		99.96	-1.50E+02	3.18E+02	4.68E+02
			1037.75		14.03	1.73E+02		3.80E+03
			1238.25		67.00	8.53E+01		4.20E+02
			1771.40		15.51	5.32E+02		1.11E+03
			2598.48		16.90	2.65E+01		3.18E+02
+		CO-57	122.06	*	85.51	7.16E+01	4.00E+00	4.00E+00
			136.48	*	10.60	7.76E+01		2.33E+01
+		CO-58	810.76		99.40	8.26E+01	9.55E+02	9.55E+02
+		FE-59	1099.22		56.50	2.10E+04	9.11E+04	1.68E+05
			1291.56		43.20	-2.72E+04		9.11E+04
+		CO-60	1173.22	*	100.00	1.40E+02	9.03E-01	1.39E+00
			1332.49	*	100.00	1.41E+02		9.03E-01
+		ZN-65	1115.52		50.75	5.41E+00	1.09E+01	1.09E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	3.91E+03	4.04E+01	2.25E+02
			136.00		59.20	1.36E+02		4.04E+01
			264.65		59.80	7.13E-01		4.35E+01
			279.53		25.20	-5.84E+01		1.02E+02
			400.65		11.40	5.08E+01		2.67E+02
+		RB-82	776.52		13.00	1.79E+09	3.95E+09	3.95E+09
+		RB-83	520.41		46.00	-2.05E+02	4.38E+02	4.38E+02
			529.64		30.30	1.25E+02		6.74E+02
			552.65		16.40	1.36E+03		1.25E+03
+		KR-85	513.99		0.43	4.15E+01	1.19E+02	1.19E+02
+		SR-85	513.99		99.27	5.58E+02	1.60E+03	1.60E+03
+		Y-88	898.02	*	93.40	3.18E+02	4.27E+01	1.41E+02
			1836.01	*	99.38	3.25E+02		4.27E+01
+		NB-93M	16.57		9.43	-4.90E+03	4.53E+02	4.53E+02
+		NB-94	702.63		100.00	2.17E-02	4.54E-01	4.54E-01
			871.10		100.00	1.67E-02		6.05E-01
+		NB-95	765.79		99.81	-9.01E+05	1.80E+06	1.80E+06
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	1.09E+03	3.48E+03	4.21E+03
			756.72		55.30	-9.37E+02		3.48E+03

Analysis Report for 1507092-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	-1.19E+04	3.45E+05	3.45E+05
+		RU-106	621.84		9.80	2.07E+00	1.94E+01	1.94E+01
+		AG-108M	433.93		89.90	2.64E-03	4.87E-01	5.14E-01
			614.37		90.40	-9.30E-02		4.87E-01
			722.95		90.50	-1.17E-01		5.21E-01
+		CD-109	88.03	*	3.72	3.01E+03	5.55E+01	5.55E+01
+		AG-110M	657.75		93.14	-1.22E+02	7.25E+00	1.05E+01
			677.61		10.53	-5.88E-01		3.59E+01
			706.67		16.46	-1.07E+01		2.32E+01
			763.93		21.98	1.59E+00		1.88E+01
			884.67		71.63	2.00E+00		7.25E+00
			1384.27		23.94	1.61E+00		7.96E+00
+		CD-113M	263.70		0.02	-2.02E+02	1.50E+03	1.50E+03
+		SN-113	255.12		1.93	3.43E+02	7.63E+01	1.63E+03
			391.69	*	64.90	1.93E+02		7.63E+01
+		TE123M	159.00		84.10	2.19E+01	2.62E+01	2.62E+01
+		SB-124	602.71		97.87	5.24E+02	2.77E+03	2.98E+03
			645.85		7.26	-5.48E+03		4.19E+04
			722.78		11.10	-6.25E+03		2.78E+04
			1691.02		49.00	1.01E+03		2.77E+03
+		I-125	35.49		6.49	1.04E+05	9.03E+04	9.03E+04
+		SB-125	176.33		6.89	-2.60E+00	2.59E+00	6.46E+00
			427.89		29.33	-6.32E-01		2.59E+00
			463.38		10.35	-1.76E+00		8.08E+00
			600.56		17.80	6.15E-01		4.15E+00
			635.90		11.32	3.21E-01		6.84E+00
+		SB-126	414.70		83.30	-8.53E+17	1.60E+18	1.85E+18
			666.33		99.60	-8.23E+16		3.14E+18
			695.00		99.60	2.06E+17		1.60E+18
			720.50		53.80	-1.04E+17		3.05E+18
+		SN-126	87.57	*	37.00	9.68E+01	1.78E+00	1.78E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-1.50E+01	3.06E+00	3.06E+00
			33.60		13.20	2.22E+01		8.88E+00
			39.58		7.52	-3.65E+01		8.93E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26
+	@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@		228.16		88.00	1.00E+26		1.00E+26
+		BA-133	81.00		33.00	-9.06E-01	6.52E-01	1.31E+00
			302.84		17.80	1.18E-04		2.05E+00

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-133	356.01		60.00	3.32E-02	6.52E-01	6.52E-01
+	@ I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+	@ XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26
+	CS-134	563.23		8.38	4.23E+00	9.17E-01	1.04E+01
		569.32		15.43	1.88E+00		5.69E+00
		604.70		97.60	1.45E-01		9.17E-01
		795.84		85.40	2.58E-01		1.24E+00
		801.93		8.73	-2.19E+00		1.21E+01
+	CS-135	268.24		16.00	1.03E+00	1.99E+00	1.99E+00
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	1.40E+17	1.65E+17	1.03E+18
		163.89		4.61	-2.13E+18		1.95E+18
		176.55		13.56	-2.34E+17		5.83E+17
		273.65		12.66	-2.18E+17		7.42E+17
		340.57		48.50	2.09E+16		2.05E+17
		818.50		99.70	1.98E+16		1.65E+17
		1048.07		79.60	1.02E+17		2.39E+17
		1235.34		19.70	6.18E+16		5.12E+17
+	CS-137	661.65	*	85.12	9.08E+01	1.08E+00	1.08E+00
+	LA-138	788.74		34.00	3.50E-01	3.08E-01	1.52E+00
		1435.80		66.00	-1.60E-01		3.08E-01
+	CE-139	165.85	*	80.35	1.02E+02	2.38E+01	2.38E+01
+	BA-140	162.64		6.70	-1.69E+18	1.69E+18	3.83E+18
		304.84		4.50	2.33E+18		6.86E+18
		423.70		3.20	-4.88E+18		1.35E+19
		437.55		2.00	-8.80E+18		2.22E+19
		537.32		25.00	7.41E+17		1.69E+18
+	LA-140	328.77		20.50	-2.49E+17	1.93E+17	1.54E+18
		487.03		45.50	6.08E+16		9.42E+17
		815.85		23.50	-6.33E+17		2.20E+18
		1596.49		95.49	1.85E+16		1.93E+17
+	CE-141	145.44		48.40	-1.58E+06	6.27E+06	6.27E+06
+	@ CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
	@	293.26		42.00	1.00E+26		1.00E+26
	@	664.55		5.20	1.00E+26		1.00E+26
+	CE-144	133.54		10.80	4.14E+00	1.56E+01	1.56E+01
+	PM-144	476.78		42.00	1.76E+00	1.93E+00	4.95E+00
		618.01		98.60	5.87E-01		1.94E+00
		696.49		99.49	-5.15E-01		1.93E+00
+	PM-145	36.85		21.70	4.19E+00	2.09E+00	3.88E+00
		37.36		39.70	1.17E+00		2.09E+00
		42.30		15.10	-2.73E+00		4.73E+00
		72.40		2.31	-1.44E+00		1.83E+01
+	PM-146	453.90		39.94	-6.96E-02	1.56E+00	1.56E+00
		735.90		14.01	1.08E+00		4.45E+00
		747.13		13.10	-3.22E+00		4.81E+00
+	@ ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	@ ND-147	531.02	13.10	1.00E+26	1.00E+26	1.00E+26
+	@ PM-149	285.90	3.10	1.00E+26	1.00E+26	1.00E+26
+	EU-152	121.78	20.50	4.52E+01	1.65E+00	2.46E+00
		244.69	5.40	-4.65E+00		6.48E+00
		344.27	19.13	-2.74E-01		1.93E+00
		778.89	9.20	2.89E+00		6.18E+00
		964.01	10.40	3.72E+00		7.51E+00
		1085.78	7.22	4.46E+00		1.02E+01
		1112.02	9.60	5.31E+00		7.60E+00
		1407.95	14.94	3.76E-01		1.65E+00
+	GD-153	97.43	31.30	-3.37E-01	7.26E+00	7.26E+00
		103.18	22.20	-3.46E+00		1.03E+01
+	EU-154	123.07	40.50	2.40E+01	9.71E-01	1.32E+00
		723.30	19.70	-6.28E-01		2.79E+00
		873.19	11.50	3.55E+00		6.22E+00
		996.32	10.30	-2.14E+00		7.34E+00
		1004.76	17.90	8.48E-01		4.27E+00
		1274.45	35.50	9.56E-02		9.71E-01
+	EU-155	86.50	30.90	1.39E+02	1.66E+00	3.49E+00
		105.30	20.70	-4.77E-02		1.66E+00
+	EU-156	811.77	10.40	8.65E+14	5.40E+15	7.12E+15
		1153.47	7.20	4.40E+15		1.02E+16
		1230.71	8.90	-9.66E+14		5.40E+15
+	HO-166M	184.41	72.60	3.42E-01	3.95E-01	3.95E-01
		280.45	29.60	-3.96E-01		1.04E+00
		410.94	11.10	3.77E-01		3.95E+00
		711.69	54.10	2.67E-01		8.75E-01
+	TM-171	66.72	0.14	-8.32E+02	6.16E+02	6.16E+02
+	HF-172	81.75	4.52	-9.67E+00	5.05E+00	1.82E+01
		125.81	11.30	-1.33E+02		5.05E+00
+	@ LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26
	@	810.06	16.63	1.00E+26		1.00E+26
	@	912.12	15.25	1.00E+26		1.00E+26
	@	1093.66	62.50	1.00E+26		1.00E+26
+	LU-173	100.72	5.24	-1.76E+00	4.33E+00	1.40E+01
		272.11	21.20	1.21E+00		4.33E+00
+	HF-175	343.40	84.00	-5.42E+01	7.63E+02	7.63E+02
+	LU-176	88.34	13.30	2.54E+02	3.41E-01	5.98E+00
		201.83	86.00	5.68E-02		3.48E-01
		306.78	94.00	-9.89E-02		3.41E-01
+	TA-182	67.75	41.20	1.57E+02	1.01E+02	1.01E+02
		1121.30	34.90	1.53E+01		1.73E+02
		1189.05	16.23	-3.18E+01		2.80E+02
		1221.41	26.98	3.17E+01		1.40E+02
		1231.02	11.44	-5.56E+01		3.11E+02
+	IR-192	308.46	29.68	-9.77E+01	1.33E+03	1.39E+03
		468.07	48.10	-8.82E+01		1.33E+03
+	HG-203	279.19	77.30	-5.82E+03	3.45E+04	3.45E+04
+	BI-207	569.67	97.72	-3.91E-02	4.61E-01	4.61E-01

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BI-207	1063.62		74.90	-1.93E-01	4.61E-01	9.04E-01
+	TL-208	583.14		30.22	2.63E-01	3.96E-01	1.46E+00
		860.37		4.48	3.35E+00		1.32E+01
		2614.66		35.85	0.00E+00		3.96E-01
+	BI-210M	262.00		45.00	-1.73E-03	6.92E-01	6.92E-01
		300.00		23.00	-7.61E-01		1.37E+00
+	PB-210	46.50		4.25	-1.22E+02	1.77E+01	1.77E+01
+	PB-211	404.84		2.90	4.88E+00	1.28E+01	1.28E+01
		831.96		2.90	-3.88E+00		1.89E+01
+	BI-212	727.17		11.80	-3.96E-01	3.95E+00	3.95E+00
		1620.62		2.75	-3.23E+00		6.67E+00
+	PB-212	238.63	*	44.60	6.92E-01	8.73E-01	8.73E-01
		300.09		3.41	-5.14E+00		9.21E+00
+	BI-214	609.31	*	46.30	4.85E-01	9.67E-01	9.67E-01
		1120.29		15.10	-9.05E-01		3.94E+00
		1764.49		15.80	-8.71E-01		1.12E+00
		2204.22		4.98	3.24E+00		4.18E+00
+	PB-214	295.21		19.19	-2.31E-02	9.26E-01	1.65E+00
		351.92		37.19	3.38E-01		9.26E-01
+	RN-219	401.80		6.50	3.28E-01	5.67E+00	5.67E+00
+	RA-223	323.87		3.88	3.21E+00	8.51E+00	8.51E+00
+	RA-224	240.98		3.95	1.10E+01	8.36E+00	8.36E+00
+	RA-225	40.00		31.00	-2.99E+16	7.31E+15	7.31E+15
+	RA-226	186.21	*	3.28	1.26E+01	2.00E+01	2.00E+01
+	TH-227	50.10		8.40	3.40E+01	2.77E+00	9.21E+00
		236.00		11.50	-6.57E-01		2.77E+00
		256.20		6.30	1.09E+00		5.01E+00
+	AC-228	338.32		11.40	1.12E+00	2.41E+00	2.92E+00
		911.07		27.70	3.94E-01		2.41E+00
		969.11		16.60	-1.06E+00		4.02E+00
+	TH-230	48.44		16.90	1.84E+01	4.61E+00	4.61E+00
		62.85		4.60	3.50E-01		1.38E+01
		67.67		0.37	1.71E+02		1.11E+02
+	PA-231	283.67		1.60	-6.98E+00	1.38E+01	1.95E+01
		302.67		2.30	7.92E-04		1.38E+01
+	TH-231	25.64		14.70	-1.96E+03	6.47E+00	7.03E+01
		84.21		6.40	-6.48E+02		6.47E+00
+	PA-233	311.98		38.60	2.76E+07	2.79E+08	2.79E+08
+	PA-234	131.20		20.40	3.09E-01	1.24E+00	1.24E+00
		733.99		8.80	9.04E-01		5.42E+00
		946.00		12.00	-2.09E-01		6.00E+00
+	PA-234M	1001.03		0.92	1.91E+01	7.07E+01	7.07E+01
+	TH-234	63.29		3.80	-1.27E+01	1.09E+01	1.09E+01
+	U-235	143.76		10.50	3.49E-01	2.41E+00	2.41E+00
		163.35		4.70	-6.95E+00		6.38E+00
		205.31		4.70	3.74E+00		6.43E+00
+	NP-237	86.50		12.60	2.54E+02	6.39E+00	6.39E+00

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	2.05E+02	3.65E+00	3.65E+00
+	AM-243	74.67		66.00	-3.88E-01	5.78E-01	5.78E-01
+	CM-243	209.75		3.29	1.93E+00	2.34E+00	9.80E+00
		228.14		10.60	-6.15E-02		3.21E+00
		277.60		14.00	4.31E-01		2.34E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	9.27E+04	9.27E+04	7.96E+04	4.59E+04
	NA-22	1274.54		99.94	5.11E-01	5.11E-01	5.03E-02	2.47E-01
	@ NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	@	2754.09		99.86	1.00E+26		1.00E+26	1.00E+20
	AL-26	1808.65		99.76	1.80E-01	1.80E-01	-1.69E-02	8.36E-02
+	K-40	1460.81	*	10.67	2.08E+00	2.08E+00	1.11E+00	9.88E-01
	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.42E-01	4.02E-01	6.84E-01	2.20E-01
		78.34		96.00	4.02E-01		-7.84E-02	2.00E-01
	SC-46	889.25		99.98	3.48E+02	3.29E+02	3.33E+01	1.72E+02
		1120.51		99.99	3.29E+02		-7.57E+01	1.62E+02
	V-48	983.52		99.98	1.61E+14	7.74E+13	-5.36E+13	7.95E+13
		1312.10		97.50	7.74E+13		-1.01E+13	3.74E+13
	CR-51	320.08		9.83	6.57E+08	6.57E+08	-2.47E+08	3.25E+08
	MN-54	834.83		99.97	3.03E+00	3.03E+00	4.69E-01	1.50E+00

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CO-56	846.75		99.96	4.68E+02	3.18E+02	-1.50E+02	2.31E+02
		1037.75		14.03	3.80E+03		1.73E+02	1.87E+03
		1238.25		67.00	4.20E+02		8.53E+01	2.04E+02
		1771.40		15.51	1.11E+03		5.32E+02	5.19E+02
		2598.48		16.90	3.18E+02		2.65E+01	1.23E+02
+	CO-57	122.06	*	85.51	4.00E+00	4.00E+00	7.16E+01	1.99E+00
		136.48	*	10.60	2.33E+01		7.76E+01	1.16E+01
	CO-58	810.76		99.40	9.55E+02	9.55E+02	8.26E+01	4.71E+02
	FE-59	1099.22		56.50	1.68E+05	9.11E+04	2.10E+04	8.28E+04
		1291.56		43.20	9.11E+04		-2.72E+04	4.39E+04
+	CO-60	1173.22	*	100.00	1.39E+00	9.03E-01	1.40E+02	6.91E-01
		1332.49	*	100.00	9.03E-01		1.41E+02	4.44E-01
	ZN-65	1115.52		50.75	1.09E+01	1.09E+01	5.41E+00	5.38E+00
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	2.25E+02	4.04E+01	3.91E+03	1.12E+02
		136.00		59.20	4.04E+01		1.36E+02	2.01E+01
		264.65		59.80	4.35E+01		7.13E-01	2.15E+01
		279.53		25.20	1.02E+02		-5.84E+01	5.03E+01
		400.65		11.40	2.67E+02		5.08E+01	1.32E+02
	RB-82	776.52		13.00	3.95E+09	3.95E+09	1.79E+09	1.95E+09
	RB-83	520.41		46.00	4.38E+02	4.38E+02	-2.05E+02	2.17E+02
		529.64		30.30	6.74E+02		1.25E+02	3.33E+02
		552.65		16.40	1.25E+03		1.36E+03	6.15E+02
	KR-85	513.99		0.43	1.19E+02	1.19E+02	4.15E+01	5.88E+01
	SR-85	513.99		99.27	1.60E+03	1.60E+03	5.58E+02	7.91E+02
+	Y-88	898.02	*	93.40	1.41E+02	4.27E+01	3.18E+02	7.00E+01
		1836.01	*	99.38	4.27E+01		3.25E+02	2.04E+01
	NB-93M	16.57		9.43	4.53E+02	4.53E+02	-4.90E+03	2.22E+02
	NB-94	702.63		100.00	4.54E-01	4.54E-01	2.17E-02	2.24E-01
		871.10		100.00	6.05E-01		1.67E-02	2.99E-01
	NB-95	765.79		99.81	1.80E+06	1.80E+06	-9.01E+05	8.87E+05
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	4.21E+03	3.48E+03	1.09E+03	2.08E+03
		756.72		55.30	3.48E+03		-9.37E+02	1.72E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	3.45E+05	3.45E+05	-1.19E+04	1.71E+05
	RU-106	621.84		9.80	1.94E+01	1.94E+01	2.07E+00	9.60E+00
	AG-108M	433.93		89.90	5.14E-01	4.87E-01	2.64E-03	2.54E-01
		614.37		90.40	4.87E-01		-9.30E-02	2.40E-01
		722.95		90.50	5.21E-01		-1.17E-01	2.57E-01
+	CD-109	88.03	*	3.72	5.55E+01	5.55E+01	3.01E+03	2.76E+01
	AG-110M	657.75		93.14	1.05E+01	7.25E+00	-1.22E+02	5.24E+00
		677.61		10.53	3.59E+01		-5.88E-01	1.77E+01
		706.67		16.46	2.32E+01		-1.07E+01	1.14E+01
		763.93		21.98	1.88E+01		1.59E+00	9.26E+00
		884.67		71.63	7.25E+00		2.00E+00	3.58E+00
		1384.27		23.94	7.96E+00		1.61E+00	3.79E+00
	CD-113M	263.70		0.02	1.50E+03	1.50E+03	-2.02E+02	7.42E+02
+	SN-113	255.12		1.93	1.63E+03	7.63E+01	3.43E+02	8.06E+02

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SN-113	391.69	*	64.90	7.63E+01	7.63E+01	1.93E+02	3.78E+01
	TE123M	159.00		84.10	2.62E+01	2.62E+01	2.19E+01	1.30E+01
	SB-124	602.71		97.87	2.98E+03	2.77E+03	5.24E+02	1.47E+03
		645.85		7.26	4.19E+04		-5.48E+03	2.07E+04
		722.78		11.10	2.78E+04		-6.25E+03	1.37E+04
		1691.02		49.00	2.77E+03		1.01E+03	1.30E+03
	I-125	35.49		6.49	9.03E+04	9.03E+04	1.04E+05	4.48E+04
	SB-125	176.33		6.89	6.46E+00	2.59E+00	-2.60E+00	3.20E+00
		427.89		29.33	2.59E+00		-6.32E-01	1.28E+00
		463.38		10.35	8.08E+00		-1.76E+00	4.00E+00
		600.56		17.80	4.15E+00		6.15E-01	2.05E+00
		635.90		11.32	6.84E+00		3.21E-01	3.38E+00
	SB-126	414.70		83.30	1.85E+18	1.60E+18	-8.53E+17	9.18E+17
		666.33		99.60	3.14E+18		-8.23E+16	1.56E+18
		695.00		99.60	1.60E+18		2.06E+17	7.90E+17
		720.50		53.80	3.05E+18		-1.04E+17	1.51E+18
+	SN-126	87.57	*	37.00	1.78E+00	1.78E+00	9.68E+01	8.88E-01
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	3.06E+00	3.06E+00	-1.50E+01	1.52E+00
		33.60		13.20	8.88E+00		2.22E+01	4.41E+00
		39.58		7.52	8.93E+00		-3.65E+01	4.43E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	1.31E+00	6.52E-01	-9.06E-01	6.51E-01
		302.84		17.80	2.05E+00		1.18E-04	1.01E+00
		356.01		60.00	6.52E-01		3.32E-02	3.22E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	1.04E+01	9.17E-01	4.23E+00	5.16E+00
		569.32		15.43	5.69E+00		1.88E+00	2.81E+00
		604.70		97.60	9.17E-01		1.45E-01	4.53E-01
		795.84		85.40	1.24E+00		2.58E-01	6.14E-01
		801.93		8.73	1.21E+01		-2.19E+00	5.97E+00
	CS-135	268.24		16.00	1.99E+00	1.99E+00	1.03E+00	9.87E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.03E+18	1.65E+17	1.40E+17	5.11E+17
		163.89		4.61	1.95E+18		-2.13E+18	9.69E+17
		176.55		13.56	5.83E+17		-2.34E+17	2.89E+17
		273.65		12.66	7.42E+17		-2.18E+17	3.67E+17
		340.57		48.50	2.05E+17		2.09E+16	1.02E+17
		818.50		99.70	1.65E+17		1.98E+16	8.14E+16
		1048.07		79.60	2.39E+17		1.02E+17	1.18E+17
		1235.34		19.70	5.12E+17		6.18E+16	2.49E+17
+	CS-137	661.65	*	85.12	1.08E+00	1.08E+00	9.08E+01	5.37E-01
	LA-138	788.74		34.00	1.52E+00	3.08E-01	3.50E-01	7.49E-01

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LA-138	1435.80		66.00	3.08E-01	3.08E-01	-1.60E-01	1.46E-01
+	CE-139	165.85	*	80.35	2.38E+01	2.38E+01	1.02E+02	1.19E+01
	BA-140	162.64		6.70	3.83E+18	1.69E+18	-1.69E+18	1.90E+18
		304.84		4.50	6.86E+18		2.33E+18	3.39E+18
		423.70		3.20	1.35E+19		-4.88E+18	6.67E+18
		437.55		2.00	2.22E+19		-8.80E+18	1.10E+19
		537.32		25.00	1.69E+18		7.41E+17	8.34E+17
	LA-140	328.77		20.50	1.54E+18	1.93E+17	-2.49E+17	7.59E+17
		487.03		45.50	9.42E+17		6.08E+16	4.66E+17
		815.85		23.50	2.20E+18		-6.33E+17	1.08E+18
		1596.49		95.49	1.93E+17		1.85E+16	9.06E+16
	CE-141	145.44		48.40	6.27E+06	6.27E+06	-1.58E+06	3.11E+06
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	1.56E+01	1.56E+01	4.14E+00	7.76E+00
	PM-144	476.78		42.00	4.95E+00	1.93E+00	1.76E+00	2.45E+00
		618.01		98.60	1.94E+00		5.87E-01	9.60E-01
		696.49		99.49	1.93E+00		-5.15E-01	9.53E-01
	PM-145	36.85		21.70	3.88E+00	2.09E+00	4.19E+00	1.92E+00
		37.36		39.70	2.09E+00		1.17E+00	1.04E+00
		42.30		15.10	4.73E+00		-2.73E+00	2.35E+00
		72.40		2.31	1.83E+01		-1.44E+00	9.09E+00
	PM-146	453.90		39.94	1.56E+00	1.56E+00	-6.96E-02	7.72E-01
		735.90		14.01	4.45E+00		1.08E+00	2.19E+00
		747.13		13.10	4.81E+00		-3.22E+00	2.37E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	2.46E+00	1.65E+00	4.52E+01	1.23E+00
		244.69		5.40	6.48E+00		-4.65E+00	3.21E+00
		344.27		19.13	1.93E+00		-2.74E-01	9.53E-01
		778.89		9.20	6.18E+00		2.89E+00	3.05E+00
		964.01		10.40	7.51E+00		3.72E+00	3.71E+00
		1085.78		7.22	1.02E+01		4.46E+00	5.05E+00
		1112.02		9.60	7.60E+00		5.31E+00	3.75E+00
		1407.95		14.94	1.65E+00		3.76E-01	7.87E-01
	GD-153	97.43		31.30	7.26E+00	7.26E+00	-3.37E-01	3.60E+00
		103.18		22.20	1.03E+01		-3.46E+00	5.11E+00
	EU-154	123.07		40.50	1.32E+00	9.71E-01	2.40E+01	6.56E-01
		723.30		19.70	2.79E+00		-6.28E-01	1.38E+00
		873.19		11.50	6.22E+00		3.55E+00	3.07E+00
		996.32		10.30	7.34E+00		-2.14E+00	3.62E+00
		1004.76		17.90	4.27E+00		8.48E-01	2.11E+00
		1274.45		35.50	9.71E-01		9.56E-02	4.69E-01
	EU-155	86.50		30.90	3.49E+00	1.66E+00	1.39E+02	1.74E+00
		105.30		20.70	1.66E+00		-4.77E-02	8.22E-01
	EU-156	811.77		10.40	7.12E+15	5.40E+15	8.65E+14	3.51E+15
		1153.47		7.20	1.02E+16		4.40E+15	5.01E+15
		1230.71		8.90	5.40E+15		-9.66E+14	2.62E+15
	HO-166M	184.41		72.60	3.95E-01	3.95E-01	3.42E-01	1.96E-01
		280.45		29.60	1.04E+00		-3.96E-01	5.16E-01
		410.94		11.10	3.95E+00		3.77E-01	1.96E+00

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	711.69		54.10	8.75E-01	3.95E-01	2.67E-01	4.32E-01
	TM-171	66.72		0.14	6.16E+02	6.16E+02	-8.32E+02	3.07E+02
	HF-172	81.75		4.52	1.82E+01	5.05E+00	-9.67E+00	9.04E+00
		125.81		11.30	5.05E+00		-1.33E+02	2.51E+00
@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		810.06		16.63	1.00E+26		1.00E+26	1.00E+20
@		912.12		15.25	1.00E+26		1.00E+26	1.00E+20
@		1093.66		62.50	1.00E+26		1.00E+26	1.00E+20
	LU-173	100.72		5.24	1.40E+01	4.33E+00	-1.76E+00	6.96E+00
		272.11		21.20	4.33E+00		1.21E+00	2.14E+00
	HF-175	343.40		84.00	7.63E+02	7.63E+02	-5.42E+01	3.77E+02
	LU-176	88.34		13.30	5.98E+00	3.41E-01	2.54E+02	2.98E+00
		201.83		86.00	3.48E-01		5.68E-02	1.73E-01
		306.78		94.00	3.41E-01		-9.89E-02	1.69E-01
	TA-182	67.75		41.20	1.01E+02	1.01E+02	1.57E+02	5.05E+01
		1121.30		34.90	1.73E+02		1.53E+01	8.51E+01
		1189.05		16.23	2.80E+02		-3.18E+01	1.37E+02
		1221.41		26.98	1.40E+02		3.17E+01	6.81E+01
		1231.02		11.44	3.11E+02		-5.56E+01	1.51E+02
	IR-192	308.46		29.68	1.39E+03	1.33E+03	-9.77E+01	6.87E+02
		468.07		48.10	1.33E+03		-8.82E+01	6.60E+02
	HG-203	279.19		77.30	3.45E+04	3.45E+04	-5.82E+03	1.71E+04
	BI-207	569.67		97.72	4.61E-01	4.61E-01	-3.91E-02	2.28E-01
		1063.62		74.90	9.04E-01		-1.93E-01	4.46E-01
	TL-208	583.14		30.22	1.46E+00	3.96E-01	2.63E-01	7.20E-01
		860.37		4.48	1.32E+01		3.35E+00	6.52E+00
		2614.66		35.85	3.96E-01		0.00E+00	1.78E-01
	BI-210M	262.00		45.00	6.92E-01	6.92E-01	-1.73E-03	3.43E-01
		300.00		23.00	1.37E+00		-7.61E-01	6.76E-01
	PB-210	46.50		4.25	1.77E+01	1.77E+01	-1.22E+02	8.81E+00
	PB-211	404.84		2.90	1.28E+01	1.28E+01	4.88E+00	6.31E+00
		831.96		2.90	1.89E+01		-3.88E+00	9.33E+00
	BI-212	727.17		11.80	3.95E+00	3.95E+00	-3.96E-01	1.95E+00
		1620.62		2.75	6.67E+00		-3.23E+00	3.12E+00
+	PB-212	238.63	*	44.60	8.73E-01	8.73E-01	6.92E-01	4.33E-01
		300.09		3.41	9.21E+00		-5.14E+00	4.56E+00
+	BI-214	609.31	*	46.30	9.67E-01	9.67E-01	4.85E-01	4.77E-01
		1120.29		15.10	3.94E+00		-9.05E-01	1.94E+00
		1764.49		15.80	1.12E+00		-8.71E-01	5.21E-01
		2204.22		4.98	4.18E+00		3.24E+00	1.95E+00
	PB-214	295.21		19.19	1.65E+00	9.26E-01	-2.31E-02	8.18E-01
		351.92		37.19	9.26E-01		3.38E-01	4.58E-01
	RN-219	401.80		6.50	5.67E+00	5.67E+00	3.28E-01	2.80E+00
	RA-223	323.87		3.88	8.51E+00	8.51E+00	3.21E+00	4.21E+00
	RA-224	240.98		3.95	8.36E+00	8.36E+00	1.10E+01	4.14E+00
	RA-225	40.00		31.00	7.31E+15	7.31E+15	-2.99E+16	3.63E+15
+	RA-226	186.21	*	3.28	2.00E+01	2.00E+01	1.26E+01	9.95E+00
	TH-227	50.10		8.40	9.21E+00	2.77E+00	3.40E+01	4.59E+00
		236.00		11.50	2.77E+00		-6.57E-01	1.37E+00
		256.20		6.30	5.01E+00		1.09E+00	2.48E+00
	AC-228	338.32		11.40	2.92E+00	2.41E+00	1.12E+00	1.45E+00
		911.07		27.70	2.41E+00		3.94E-01	1.19E+00
		969.11		16.60	4.02E+00		-1.06E+00	1.98E+00

Analysis Report for 1507092-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-230	48.44		16.90	4.61E+00	4.61E+00	1.84E+01	2.30E+00
		62.85		4.60	1.38E+01		3.50E-01	6.88E+00
		67.67		0.37	1.11E+02		1.71E+02	5.50E+01
	PA-231	283.67		1.60	1.95E+01	1.38E+01	-6.98E+00	9.66E+00
		302.67		2.30	1.38E+01		7.92E-04	6.82E+00
	TH-231	25.64		14.70	7.03E+01	6.47E+00	-1.96E+03	3.51E+01
		84.21		6.40	6.47E+00		-6.48E+02	3.22E+00
	PA-233	311.98		38.60	2.79E+08	2.79E+08	2.76E+07	1.38E+08
	PA-234	131.20		20.40	1.24E+00	1.24E+00	3.09E-01	6.13E-01
		733.99		8.80	5.42E+00		9.04E-01	2.68E+00
		946.00		12.00	6.00E+00		-2.09E-01	2.97E+00
	PA-234M	1001.03		0.92	7.07E+01	7.07E+01	1.91E+01	3.49E+01
	TH-234	63.29		3.80	1.09E+01	1.09E+01	-1.27E+01	5.43E+00
	U-235	143.76		10.50	2.41E+00	2.41E+00	3.49E-01	1.20E+00
		163.35		4.70	6.38E+00		-6.95E+00	3.17E+00
		205.31		4.70	6.43E+00		3.74E+00	3.19E+00
	NP-237	86.50		12.60	6.39E+00	6.39E+00	2.54E+02	3.19E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.65E+00	3.65E+00	2.05E+02	1.82E+00
	AM-243	74.67		66.00	5.78E-01	5.78E-01	-3.88E-01	2.88E-01
	CM-243	209.75		3.29	9.80E+00	2.34E+00	1.93E+00	4.86E+00
		228.14		10.60	3.21E+00		-6.15E-02	1.59E+00
		277.60		14.00	2.34E+00		4.31E-01	1.16E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507092-01

GAS-1302

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1829

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	1	4	1053	2709	9262	65572	60333	8412
25:	24795	17783	3264	1256	1201	1036	1122	2092
33:	2100	1368	993	1173	1443	1280	1241	1301
41:	1415	1603	1863	2063	2154	2426	2848	3421
49:	4539	5516	5437	5006	5326	5260	5380	5742
57:	6064	6898	18194	64666	17846	2613	2271	2447
65:	2113	2270	2571	2560	2585	2547	2505	2484
73:	2346	2451	2395	2374	2471	2471	2453	2387
81:	2395	2509	2559	2633	2785	2848	4340	24412
89:	23660	2764	1541	1474	1367	1164	1129	1135
97:	1218	1090	1171	1120	1164	1163	1136	1206
105:	1066	1157	1173	1110	1150	1168	1200	1148
113:	1165	1199	1192	1191	1198	1170	1208	1299
121:	1545	6457	6210	1343	1089	1047	1058	958
129:	996	970	978	987	1017	950	1045	1232
137:	1885	1095	974	933	904	914	935	931
145:	918	883	909	924	925	889	890	919
153:	855	940	849	866	869	932	919	941
161:	873	846	925	908	937	2067	1536	867
169:	874	867	841	790	865	838	835	777
177:	829	792	801	826	795	809	853	864
185:	894	993	935	884	937	965	871	900
193:	844	938	936	940	946	921	899	920
201:	893	844	882	920	870	883	906	865
209:	833	900	915	940	859	932	986	972
217:	964	905	948	974	985	900	945	930
225:	952	967	895	847	880	874	865	862
233:	904	836	819	823	811	856	942	895
241:	882	793	828	741	773	781	729	794
249:	798	745	735	777	741	747	693	744
257:	744	720	678	701	700	673	719	656
265:	655	713	685	683	684	738	718	701
273:	629	642	643	681	650	630	603	618
281:	632	601	635	634	638	607	669	637
289:	634	637	620	653	579	620	586	662
297:	595	607	574	601	578	559	600	603
305:	599	604	572	563	606	605	605	591
313:	586	612	622	581	557	566	542	553
321:	581	566	585	591	589	571	538	577
329:	561	555	572	553	569	586	532	564
337:	539	563	571	539	569	555	505	534
345:	541	564	538	534	527	545	579	567
353:	570	541	554	546	535	525	524	511
361:	553	495	547	540	485	528	493	534

369:	507	506	557	512	498	557	560	538

Sample Title: GAS-1302

Channel								
377:	553	527	519	562	496	527	479	517
385:	519	510	535	521	558	575	690	990
393:	665	517	527	548	471	519	502	557
401:	510	537	527	529	536	547	514	470
409:	539	539	545	536	501	521	516	500
417:	515	505	521	528	564	542	496	523
425:	507	502	508	553	532	488	525	525
433:	553	508	528	503	518	519	545	550
441:	517	555	546	555	529	562	541	523
449:	532	507	523	518	547	562	557	533
457:	531	547	566	570	563	552	549	582
465:	565	532	567	557	578	592	544	567
473:	562	514	546	505	526	486	509	476
481:	457	431	401	447	437	447	430	422
489:	397	367	412	429	416	416	402	378
497:	400	395	378	388	376	374	448	397
505:	360	408	377	377	377	440	437	410
513:	411	374	387	373	371	358	370	336
521:	351	376	348	357	365	380	377	377
529:	370	353	342	320	357	309	360	352
537:	324	357	345	333	370	353	317	327
545:	337	295	353	303	328	330	323	342
553:	368	333	324	320	287	286	289	305
561:	326	327	287	341	320	312	320	313
569:	290	332	293	335	272	293	320	321
577:	319	284	313	298	306	300	358	310
585:	274	323	312	305	322	322	313	292
593:	301	311	308	296	268	275	294	286
601:	289	303	291	309	281	304	275	311
609:	341	311	273	267	272	297	279	306
617:	262	270	298	302	313	267	289	292
625:	310	309	316	309	279	287	278	347
633:	293	286	281	307	300	314	277	285
641:	270	293	289	276	301	293	295	294
649:	273	280	322	293	311	315	315	304
657:	306	330	367	1258	10176	17412	4753	742
665:	476	415	305	267	262	232	248	256
673:	263	241	286	255	247	243	267	267
681:	260	261	275	259	234	269	244	274
689:	256	280	257	269	233	256	259	227
697:	249	244	228	226	238	256	280	228
705:	250	241	247	254	248	268	261	250
713:	269	263	270	230	278	259	239	245
721:	273	244	241	238	234	258	269	246
729:	244	231	263	243	276	268	262	225
737:	238	252	262	239	249	263	260	254
745:	253	253	248	258	256	257	290	274
753:	249	284	275	238	244	256	245	253
761:	266	266	252	242	249	249	272	240
769:	276	297	244	243	253	263	261	275
777:	266	271	250	278	268	246	257	230
785:	257	267	315	247	254	253	251	264
793:	260	276	258	290	290	269	256	270

801:	272	263	253	267	273	267	259	279

Sample Title: GAS-1302

Channel								
809:	291	254	269	260	281	275	274	277
817:	259	273	270	288	299	308	296	267
825:	268	282	272	281	280	296	236	262
833:	283	285	277	256	310	300	271	301
841:	274	270	288	285	294	262	289	305
849:	271	257	320	276	279	302	300	288
857:	316	281	274	330	322	289	311	284
865:	309	320	315	278	319	300	312	284
873:	334	345	323	283	288	292	311	316
881:	299	296	338	334	305	329	327	327
889:	330	306	334	317	319	326	330	382
897:	454	659	537	350	326	328	340	330
905:	334	324	337	348	313	367	365	397
913:	359	326	365	358	317	339	352	351
921:	332	341	356	388	393	352	351	395
929:	372	378	427	343	388	368	375	371
937:	384	403	392	337	372	370	358	394
945:	388	387	389	395	400	399	405	395
953:	379	386	373	371	402	401	365	395
961:	417	359	361	320	351	357	332	320
969:	304	323	301	291	316	325	278	294
977:	284	300	290	281	281	292	284	288
985:	323	262	265	300	304	279	267	290
993:	311	277	278	286	272	282	266	307
1001:	291	288	279	297	285	273	279	283
1009:	269	254	290	270	282	268	303	279
1017:	274	274	239	269	273	297	274	269
1025:	248	251	286	293	264	279	264	254
1033:	299	266	255	283	256	255	242	291
1041:	259	258	234	253	257	266	239	247
1049:	280	239	253	230	253	237	247	244
1057:	253	251	272	240	261	273	262	280
1065:	236	249	251	268	275	239	264	248
1073:	290	253	241	257	258	247	241	274
1081:	239	248	244	266	264	256	272	277
1089:	267	235	279	260	252	250	249	284
1097:	264	252	236	260	259	265	269	254
1105:	248	252	253	225	237	257	246	251
1113:	248	245	246	231	207	229	200	197
1121:	190	200	173	186	178	176	186	177
1129:	168	173	174	173	190	155	167	169
1137:	146	168	175	165	162	150	166	157
1145:	154	159	153	139	165	152	163	175
1153:	158	117	142	154	155	115	138	141
1161:	127	156	134	132	115	144	169	151
1169:	154	206	833	5627	14274	8888	1595	366
1177:	313	194	125	116	113	118	99	111
1185:	124	113	103	111	98	82	102	94
1193:	95	89	101	82	95	106	95	80
1201:	81	80	74	84	60	85	83	75
1209:	78	66	87	71	79	69	78	58
1217:	78	70	69	66	56	67	64	69
1225:	65	52	63	72	63	49	59	50

1233:	54	55	58	65	53	40	55	46

Sample Title: GAS-1302

Channel								
1241:	61	47	51	48	46	48	48	46
1249:	48	55	35	47	48	37	41	42
1257:	37	36	46	36	43	43	38	32
1265:	34	25	51	36	43	38	43	37
1273:	34	39	37	42	35	38	31	39
1281:	31	40	33	34	50	36	22	42
1289:	41	21	32	31	38	28	44	39
1297:	35	29	28	30	32	41	32	38
1305:	34	34	39	27	37	43	36	34
1313:	34	38	46	43	47	29	37	29
1321:	41	49	49	53	45	41	57	40
1329:	101	445	3745	11608	9620	2225	335	197
1337:	109	44	24	29	35	37	23	19
1345:	20	18	21	16	19	15	24	18
1353:	18	21	22	13	25	11	14	21
1361:	21	17	15	20	25	22	22	18
1369:	20	17	18	22	24	27	18	18
1377:	20	21	24	10	23	19	22	17
1385:	24	20	16	18	21	16	22	15
1393:	11	12	13	21	20	17	13	10
1401:	22	21	19	21	15	21	15	19
1409:	22	23	14	11	17	15	15	23
1417:	21	21	22	13	20	13	14	16
1425:	16	16	17	21	12	20	21	20
1433:	14	10	18	15	11	22	14	20
1441:	14	16	14	12	16	14	20	12
1449:	14	16	21	19	23	16	11	19
1457:	12	13	12	20	32	13	15	14
1465:	11	14	20	16	10	19	17	10
1473:	12	15	10	21	20	13	17	12
1481:	18	17	15	16	15	12	14	7
1489:	15	15	8	19	16	14	13	12
1497:	11	13	14	15	23	13	9	22
1505:	15	19	15	12	10	12	14	22
1513:	18	21	12	10	14	11	19	10
1521:	16	11	17	13	17	18	9	8
1529:	12	12	15	16	14	12	15	15
1537:	18	17	14	18	19	15	10	14
1545:	16	18	14	14	12	16	17	13
1553:	20	12	8	15	16	18	19	10
1561:	8	12	10	16	17	13	20	9
1569:	17	14	14	12	13	15	11	15
1577:	15	13	18	11	14	15	12	13
1585:	8	15	16	20	15	16	11	11
1593:	14	12	15	14	9	7	8	10
1601:	11	8	10	14	12	11	20	6
1609:	17	11	11	9	11	15	16	15
1617:	9	6	13	7	8	14	13	10
1625:	11	16	9	5	12	7	9	15
1633:	14	6	17	9	14	5	11	10
1641:	7	20	10	9	13	6	10	18
1649:	10	12	12	11	12	8	11	12
1657:	10	11	13	11	7	11	15	11

1665:	14	12	11	6	11	7	12	11

Sample Title: GAS-1302

Channel								
1673:	12	8	15	16	11	15	18	11
1681:	13	9	11	10	7	7	9	9
1689:	9	13	17	11	11	14	9	13
1697:	7	9	6	7	10	7	8	5
1705:	9	5	8	11	9	14	9	11
1713:	8	13	13	11	6	9	13	13
1721:	11	13	5	10	10	9	4	15
1729:	16	13	8	11	6	8	5	8
1737:	7	8	7	11	10	12	12	7
1745:	8	3	14	2	8	8	10	7
1753:	8	7	13	5	7	12	12	16
1761:	10	8	8	9	9	6	8	8
1769:	15	13	8	11	9	16	8	11
1777:	9	1	7	10	7	8	9	13
1785:	9	10	8	9	8	9	7	10
1793:	7	11	5	13	3	13	11	8
1801:	7	8	9	7	6	7	9	10
1809:	6	9	11	9	10	3	10	8
1817:	5	8	5	13	2	9	12	8
1825:	13	8	4	7	11	12	9	8
1833:	17	54	162	166	81	20	6	11
1841:	10	4	3	9	7	7	4	15
1849:	11	4	10	5	11	11	9	10
1857:	7	11	7	3	4	9	4	7
1865:	5	8	8	11	4	5	10	3
1873:	7	9	7	5	4	6	6	8
1881:	8	9	7	4	7	3	9	2
1889:	8	9	5	12	4	8	4	12
1897:	8	9	7	5	5	9	14	4
1905:	2	10	7	9	4	7	5	9
1913:	5	7	4	5	9	7	6	8
1921:	8	9	10	11	9	8	8	17
1929:	5	9	3	9	5	10	9	9
1937:	6	9	6	8	8	6	3	8
1945:	7	5	7	7	12	5	3	3
1953:	6	6	13	8	7	8	9	3
1961:	5	8	7	10	1	9	3	9
1969:	4	3	7	14	4	7	7	4
1977:	14	6	6	0	7	4	3	10
1985:	1	8	8	8	9	9	7	5
1993:	11	6	9	8	7	4	6	6
2001:	4	6	6	6	5	3	7	7
2009:	3	9	6	8	9	7	12	8
2017:	6	4	6	7	8	6	6	5
2025:	5	7	3	5	7	5	4	6
2033:	9	10	6	6	6	9	5	4
2041:	7	10	8	8	4	3	7	8
2049:	5	10	7	8	3	5	5	4
2057:	3	6	4	3	6	9	7	2
2065:	14	6	6	6	7	6	7	5
2073:	7	6	5	1	7	3	6	3
2081:	6	5	5	7	6	9	6	5
2089:	5	2	7	5	6	5	2	8

2097:	4	8	6	8	6	3	6	7

Sample Title: GAS-1302

Channel								
2105:	4	5	5	8	7	6	6	4
2113:	2	6	4	3	9	9	7	5
2121:	5	5	4	4	2	5	8	5
2129:	6	6	7	6	3	9	6	9
2137:	5	4	5	8	11	8	9	7
2145:	4	3	2	9	9	9	3	5
2153:	7	3	8	5	13	10	2	6
2161:	3	10	6	8	3	5	7	9
2169:	5	6	4	5	5	5	10	9
2177:	4	4	5	3	4	7	7	9
2185:	7	7	3	5	8	5	8	6
2193:	7	5	11	6	6	4	8	7
2201:	9	5	13	5	3	7	6	10
2209:	3	1	6	9	4	5	5	5
2217:	4	10	5	8	3	7	8	3
2225:	5	8	6	6	2	9	5	4
2233:	5	4	7	5	6	7	7	7
2241:	8	6	5	6	5	4	6	9
2249:	12	8	4	10	8	6	6	5
2257:	6	6	3	7	5	6	7	3
2265:	9	5	2	2	7	4	10	9
2273:	8	9	7	7	5	11	8	12
2281:	8	5	12	13	3	10	6	7
2289:	3	8	6	7	7	3	3	3
2297:	9	9	6	6	6	5	2	4
2305:	4	5	3	2	5	2	2	6
2313:	5	4	1	3	4	1	3	5
2321:	6	5	7	5	3	5	2	6
2329:	4	7	6	4	3	2	4	2
2337:	2	2	7	2	6	6	3	1
2345:	6	5	4	2	5	6	1	5
2353:	6	2	3	5	2	1	4	1
2361:	4	3	6	3	8	2	1	0
2369:	3	0	2	4	1	2	2	4
2377:	5	0	4	3	1	3	1	3
2385:	0	2	1	1	2	3	1	0
2393:	1	2	1	3	1	0	1	2
2401:	0	2	0	1	0	4	3	3
2409:	2	0	3	2	0	3	1	0
2417:	3	2	1	2	1	1	1	2
2425:	3	3	5	1	1	2	0	3
2433:	0	0	0	1	2	0	0	2
2441:	0	0	0	3	0	1	2	1
2449:	1	1	1	4	1	0	1	1
2457:	0	1	0	1	0	0	1	1
2465:	1	0	2	2	1	1	0	0
2473:	2	2	4	2	0	0	2	1
2481:	1	0	2	3	1	0	3	2
2489:	1	2	1	1	0	0	0	0
2497:	2	3	3	1	3	10	37	125
2505:	135	70	16	3	2	3	0	0
2513:	0	0	1	0	1	0	1	0
2521:	1	0	0	1	0	0	1	1

2529:	0	0	1	2	1	0	0	0

Sample Title: GAS-1302

Channel								
2537:	0	2	1	0	0	0	0	0
2545:	1	1	0	0	1	1	1	1
2553:	0	0	0	1	1	0	0	1
2561:	0	0	3	0	0	0	1	0
2569:	0	0	1	0	1	0	0	0
2577:	0	1	0	0	1	0	0	1
2585:	0	0	0	1	0	0	0	0
2593:	1	1	2	0	0	1	0	0
2601:	0	0	0	0	1	0	0	0
2609:	0	2	1	4	7	8	2	0
2617:	2	0	1	1	1	1	0	1
2625:	1	0	0	1	1	0	0	0
2633:	0	0	0	0	2	0	0	1
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	0	0	1	0	0	2	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	1	0	0	0	0	1
2681:	0	0	2	0	0	0	0	2
2689:	0	0	0	0	0	1	0	0
2697:	0	0	0	0	0	0	0	1
2705:	0	0	1	0	0	0	0	2
2713:	0	0	1	0	1	2	0	0
2721:	0	0	0	1	0	0	0	0
2729:	0	2	1	7	2	1	0	0
2737:	0	1	0	0	0	0	0	0
2745:	0	0	0	0	0	1	0	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	1	0	1	0
2769:	0	0	0	1	0	0	0	0
2777:	0	0	0	0	0	0	0	1
2785:	0	0	0	0	1	0	0	0
2793:	0	0	0	1	0	1	0	0
2801:	0	0	0	0	0	0	1	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	1	0
2825:	0	0	0	0	0	1	0	0
2833:	0	1	0	0	0	0	0	0
2841:	0	0	0	0	1	0	0	1
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	1
2865:	0	1	0	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	1
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	1	0	0	0	0	1
2913:	0	0	1	0	0	0	1	1
2921:	0	0	0	0	1	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	1	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	1

Sample Title: GAS-1302

Channel								
2969:	0	1	0	1	0	0	0	0
2977:	0	0	0	0	2	0	0	0
2985:	0	0	0	0	0	0	0	1
2993:	0	0	0	1	1	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	1
3017:	1	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	1	0	0	1	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	1	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	1	0	0	0	0	1	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	2
3129:	0	0	0	1	0	0	0	0
3137:	0	1	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	1	0	0	0	0	0
3169:	0	0	0	0	0	0	0	1
3177:	2	0	0	0	0	0	1	0
3185:	0	0	0	1	0	0	1	0
3193:	0	0	0	0	1	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	1
3225:	0	0	0	0	0	0	1	0
3233:	1	0	0	0	0	0	0	0
3241:	0	0	0	0	0	1	2	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	2	0	0	0	0	0	0
3273:	0	0	0	0	0	1	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	1	0	0	0	0	1
3297:	0	0	1	0	0	0	0	0
3305:	0	0	0	1	0	0	0	0
3313:	0	0	0	1	0	0	0	2
3321:	0	0	0	0	1	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	1	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	1	0
3385:	0	0	0	0	0	0	0	0

3393:	0	1	0	0	0	0	0	0

Sample Title: GAS-1302

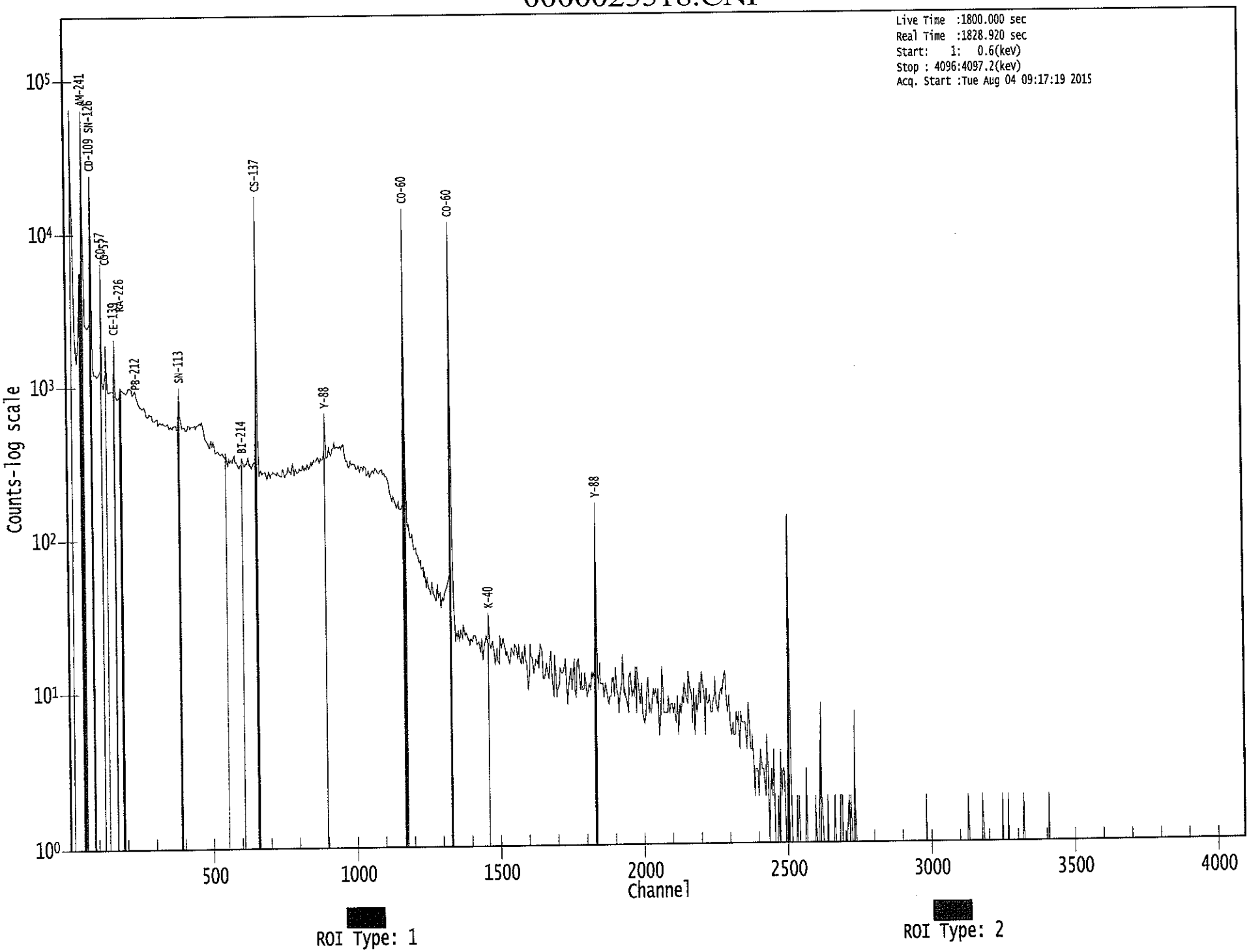
Channel								
3401:	0	0	0	0	0	0	0	2
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	1	0	0	0	0	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	1
3481:	1	1	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	1	1
3561:	0	0	0	0	0	0	0	0
3569:	1	1	0	0	0	0	0	1
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	1	0	0	0	0	0
3601:	1	0	1	1	0	0	0	0
3609:	0	0	0	0	0	0	1	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	1	0	0	0
3649:	0	0	0	1	0	0	0	0
3657:	1	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	1	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	1	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	1	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	1	0	0	0	0	1	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	1	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	1

3825:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	0	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	1	0	0
3881:	0	0	0	0	1	0	0	1
3889:	0	0	1	1	0	0	0	0
3897:	0	0	1	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	1	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	1	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	1	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	1	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	1	0	0	0	1

0000025518.CNF



VCB 8/4/15

Apex-Gamma

Analysis Report for 1507092-02
BLANK

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507092-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 8/4/2015 9:14:03AM
Acquisition Started	: 8/4/2015 9:17:27AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25519

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 8/6/15

Analysis Report for 1507092-02

BLANK

PEAK LOCATE REPORT

Peak Locate Performed on : 8/4/2015 10:17:31AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	13.77	13.90	0.0000	0.00
2	111.40	111.47	0.0000	0.00
3	163.96	164.00	0.0000	0.00
4	219.35	219.35	0.0000	0.00
5	355.21	355.14	0.0000	0.00
6	422.28	422.18	0.0000	0.00
7	606.19	606.00	0.0000	0.00
8	835.62	835.33	0.0000	0.00
9	880.21	879.90	0.0000	0.00
10	1002.15	1001.79	0.0000	0.00
11	1010.46	1010.09	0.0000	0.00
12	1126.61	1126.20	0.0000	0.00
13	1209.30	1208.86	0.0000	0.00
14	1257.89	1257.43	0.0000	0.00
15	1280.88	1280.42	0.0000	0.00
16	1312.48	1312.00	0.0000	0.00
17	1406.17	1405.66	0.0000	0.00
18	1938.51	1937.87	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507092-02

BLANK

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/4/2015 10:17:31AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	13.77	13 -	17	13.90	1.77E+03	130.99	1.56E+03	1.16
	2	111.40	109 -	114	111.47	3.82E+01	27.73	1.24E+02	3.80
	3	163.96	158 -	169	164.00	5.72E+01	47.87	2.58E+02	4.96
	4	219.35	217 -	223	219.35	2.14E+01	26.38	1.09E+02	1.53
m	5	355.21	348 -	358	355.14	1.40E+01	17.41	4.74E+01	1.58
	6	422.28	418 -	425	422.18	2.68E+01	20.98	5.44E+01	1.50
M	7	606.19	604 -	613	606.00	9.79E+00	13.16	3.40E+01	2.26
	8	835.62	833 -	837	835.33	1.01E+01	8.65	7.79E+00	1.85
	9	880.21	876 -	883	879.90	1.11E+01	10.58	9.75E+00	3.00
	10	1002.15	998 -	1005	1001.79	1.40E+01	7.48	0.00E+00	2.48
	11	1010.46	1007 -	1013	1010.09	1.10E+01	6.63	0.00E+00	1.66
	12	1126.61	1116 -	1135	1126.20	2.49E+01	21.26	2.62E+01	13.04
	13	1209.30	1205 -	1211	1208.86	7.00E+00	5.29	0.00E+00	1.00
	14	1257.89	1255 -	1259	1257.43	7.00E+00	5.29	0.00E+00	1.47
	15	1280.88	1277 -	1284	1280.42	9.36E+00	7.75	3.27E+00	1.15
	16	1312.48	1310 -	1314	1312.00	6.50E+00	6.96	5.00E+00	2.71
	17	1406.17	1403 -	1408	1405.66	6.75E+00	6.40	2.50E+00	2.68
	18	1938.51	1934 -	1941	1937.87	6.13E+00	6.93	3.75E+00	2.11

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/4/2015 10:17:31AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Analysis Report for 1507092-02

BLANK

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	13.77	13 -	17	1.77E+03	130.99	1.56E+03	8.25E+01
	2	111.40	109 -	114	3.82E+01	27.73	1.24E+02	2.04E+01
	3	163.96	158 -	169	5.72E+01	47.87	2.58E+02	3.73E+01
	4	219.35	217 -	223	2.14E+01	26.38	1.09E+02	2.03E+01
m	5	355.21	348 -	358	1.40E+01	17.41	4.74E+01	1.13E+01
	6	422.28	418 -	425	2.68E+01	20.98	5.44E+01	1.50E+01
M	7	606.19	604 -	613	9.79E+00	13.16	3.40E+01	9.59E+00
	8	835.62	833 -	837	1.01E+01	8.65	7.79E+00	4.82E+00
	9	880.21	876 -	883	1.11E+01	10.58	9.75E+00	6.75E+00
	10	1002.15	998 -	1005	1.40E+01	7.48	0.00E+00	0.00E+00
	11	1010.46	1007 -	1013	1.10E+01	6.63	0.00E+00	0.00E+00
	12	1126.61	1116 -	1135	2.49E+01	21.26	2.62E+01	1.54E+01
	13	1209.30	1205 -	1211	7.00E+00	5.29	0.00E+00	0.00E+00
	14	1257.89	1255 -	1259	7.00E+00	5.29	0.00E+00	0.00E+00
	15	1280.88	1277 -	1284	9.36E+00	7.75	3.27E+00	3.90E+00
	16	1312.48	1310 -	1314	6.50E+00	6.96	5.00E+00	3.90E+00
	17	1406.17	1403 -	1408	6.75E+00	6.40	2.50E+00	3.08E+00
	18	1938.51	1934 -	1941	6.13E+00	6.93	3.75E+00	3.98E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/4/2015 10:17:31AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	13.77	13 -	17	13.90	1.77E+03	130.99	1.56E+03	.....
	2	111.40	109 -	114	111.47	3.82E+01	27.73	1.24E+02	.....
	3	163.96	158 -	169	164.00	5.72E+01	47.87	2.58E+02	CS-136 U-235
	4	219.35	217 -	223	219.35	2.14E+01	26.38	1.09E+02	.....
m	5	355.21	348 -	358	355.14	1.40E+01	17.41	4.74E+01	BA-133
	6	422.28	418 -	425	422.18	2.68E+01	20.98	5.44E+01	.....

Analysis Report for 1507092-02

BLANK

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	7	606.19	604 -	613	606.00	9.79E+00	13.16	3.40E+01	.....
	8	835.62	833 -	837	835.33	1.01E+01	8.65	7.79E+00	MN-54
	9	880.21	876 -	883	879.90	1.11E+01	10.58	9.75E+00	.....
	10	1002.15	998 -	1005	1001.79	1.40E+01	7.48	0.00E+00	.....
	11	1010.46	1007 -	1013	1010.09	1.10E+01	6.63	0.00E+00	.....
	12	1126.61	1116 -	1135	1126.20	2.49E+01	21.26	2.62E+01	.....
	13	1209.30	1205 -	1211	1208.86	7.00E+00	5.29	0.00E+00	.....
	14	1257.89	1255 -	1259	1257.43	7.00E+00	5.29	0.00E+00	.....
	15	1280.88	1277 -	1284	1280.42	9.36E+00	7.75	3.27E+00	.....
	16	1312.48	1310 -	1314	1312.00	6.50E+00	6.96	5.00E+00	V-48
	17	1406.17	1403 -	1408	1405.66	6.75E+00	6.40	2.50E+00	.....
	18	1938.51	1934 -	1941	1937.87	6.13E+00	6.93	3.75E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/4/2015 10:17:31AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	13.77	1.77E+03	130.99	8.20E-08	1.68E-03
	2	111.40	3.82E+01	27.73	2.76E-02	3.46E-03
	3	163.96	5.72E+01	47.87	2.28E-02	1.73E-03
	4	219.35	2.14E+01	26.38	1.89E-02	1.62E-03
m	5	355.21	1.40E+01	17.41	1.36E-02	1.19E-03
	6	422.28	2.68E+01	20.98	1.21E-02	9.88E-04
M	7	606.19	9.79E+00	13.16	9.31E-03	8.02E-04
	8	835.62	1.01E+01	8.65	7.24E-03	6.33E-04
	9	880.21	1.11E+01	10.58	6.94E-03	6.05E-04
	10	1002.15	1.40E+01	7.48	6.24E-03	5.40E-04
	11	1010.46	1.10E+01	6.63	6.20E-03	5.36E-04
	12	1126.61	2.49E+01	21.26	5.68E-03	4.77E-04
	13	1209.30	7.00E+00	5.29	5.37E-03	4.69E-04
	14	1257.89	7.00E+00	5.29	5.21E-03	4.92E-04
	15	1280.88	9.36E+00	7.75	5.14E-03	5.03E-04
	16	1312.48	6.50E+00	6.96	5.04E-03	5.17E-04
	17	1406.17	6.75E+00	6.40	4.80E-03	4.96E-04
	18	1938.51	6.13E+00	6.93	4.03E-03	3.18E-04

Analysis Report for 1507092-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/4/2015 10:17:31AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	13.77	1.77E+03	130.99	1.24E+03	4.65E+01	5.37E+02	1.39E+02
	2	111.40	3.82E+01	27.73			3.82E+01	2.77E+01
	3	163.96	5.72E+01	47.87			5.72E+01	4.79E+01
	4	219.35	2.14E+01	26.38			2.14E+01	2.64E+01
m	5	355.21	1.40E+01	17.41			1.40E+01	1.74E+01
	6	422.28	2.68E+01	20.98			2.68E+01	2.10E+01
M	7	606.19	9.79E+00	13.16			9.79E+00	1.32E+01
	8	835.62	1.01E+01	8.65			1.01E+01	8.65E+00
	9	880.21	1.11E+01	10.58			1.11E+01	1.06E+01
	10	1002.15	1.40E+01	7.48			1.40E+01	7.48E+00
	11	1010.46	1.10E+01	6.63			1.10E+01	6.63E+00
	12	1126.61	2.49E+01	21.26			2.49E+01	2.13E+01
	13	1209.30	7.00E+00	5.29			7.00E+00	5.29E+00
	14	1257.89	7.00E+00	5.29			7.00E+00	5.29E+00
	15	1280.88	9.36E+00	7.75			9.36E+00	7.75E+00
	16	1312.48	6.50E+00	6.96			6.50E+00	6.96E+00
	17	1406.17	6.75E+00	6.40			6.75E+00	6.40E+00
	18	1938.51	6.13E+00	6.93			6.13E+00	6.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-02

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AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/4/2015 10:17:31AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	13.77	1.77E+03	130.99	1.24E+03	4.65E+01	5.37E+02	1.39E+02
	2	111.40	3.82E+01	27.73			3.82E+01	2.77E+01
	3	163.96	5.72E+01	47.87			5.72E+01	4.79E+01
	4	219.35	2.14E+01	26.38			2.14E+01	2.64E+01
m	5	355.21	1.40E+01	17.41			1.40E+01	1.74E+01
	6	422.28	2.68E+01	20.98			2.68E+01	2.10E+01
M	7	606.19	9.79E+00	13.16			9.79E+00	1.32E+01
	8	835.62	1.01E+01	8.65			1.01E+01	8.65E+00
	9	880.21	1.11E+01	10.58			1.11E+01	1.06E+01
	10	1002.15	1.40E+01	7.48			1.40E+01	7.48E+00
	11	1010.46	1.10E+01	6.63			1.10E+01	6.63E+00
	12	1126.61	2.49E+01	21.26			2.49E+01	2.13E+01
	13	1209.30	7.00E+00	5.29			7.00E+00	5.29E+00
	14	1257.89	7.00E+00	5.29			7.00E+00	5.29E+00
	15	1280.88	9.36E+00	7.75			9.36E+00	7.75E+00
	16	1312.48	6.50E+00	6.96			6.50E+00	6.96E+00
	17	1406.17	6.75E+00	6.40			6.75E+00	6.40E+00
	18	1938.51	6.13E+00	6.93			6.13E+00	6.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty

Analysis Report for 1507092-02
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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
MN-54	0.904	834.83	*	99.97	1.34E-02	1.15E-02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/4/2015 10:17:31AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.77	1.49223E-01	12.94		
	2	111.40	1.06236E-02	36.25		
	3	163.96	1.58863E-02	41.86	Tol.	CS-136 U-235
	4	219.35	5.95760E-03	61.50		
m	5	355.21	3.89980E-03	62.02	Tol.	BA-133
	6	422.28	7.44856E-03	39.11		
M	7	606.19	2.71969E-03	67.22		
	9	880.21	3.09028E-03	47.56		
	10	1002.15	3.88889E-03	26.73		
	11	1010.46	3.05556E-03	30.15		
	12	1126.61	6.91520E-03	42.70		
	13	1209.30	1.94444E-03	37.80		
	14	1257.89	1.94444E-03	37.80		
	15	1280.88	2.60101E-03	41.36		
	16	1312.48	1.80556E-03	53.57	Tol.	V-48
	17	1406.17	1.87500E-03	47.43		
	18	1938.51	1.70139E-03	56.56		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-02
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NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
MN-54	0.90	834.83	*	99.97	1.34E-02	1.15E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
MN-54	0.904	1.34E-02	1.15E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507092-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/4/2015 10:17:31AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.77	1.49223E-01	12.94		
	2	111.40	1.06236E-02	36.25		
	3	163.96	1.58863E-02	41.86	Tol.	CS-136 U-235
	4	219.35	5.95760E-03	61.50		
m	5	355.21	3.89980E-03	62.02	Tol.	BA-133
	6	422.28	7.44856E-03	39.11		
M	7	606.19	2.71969E-03	67.22		
	9	880.21	3.09028E-03	47.56		
	10	1002.15	3.88889E-03	26.73		
	11	1010.46	3.05556E-03	30.15		
	12	1126.61	6.91520E-03	42.70		
	13	1209.30	1.94444E-03	37.80		
	14	1257.89	1.94444E-03	37.80		
	15	1280.88	2.60101E-03	41.36		
	16	1312.48	1.80556E-03	53.57	Tol.	V-48
	17	1406.17	1.87500E-03	47.43		
	18	1938.51	1.70139E-03	56.56		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)

Analysis Report for 1507092-02

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+	BE-7	477.59		10.42	-4.04E-02	1.95E-01	1.95E-01
+	NA-22	1274.54		99.94	-3.10E-03	2.00E-02	2.00E-02
+	NA-24	1368.53		99.99	0.00E+00	2.55E-02	3.02E-02
		2754.09		99.86	7.09E-03		2.55E-02
+	AL-26	1808.65		99.76	1.59E-02	3.68E-02	3.68E-02
+	K-40	1460.81		10.67	1.13E-01	4.10E-01	4.10E-01
+	AR-41	1293.64		99.16	0.00E+00	3.50E-02	3.50E-02
+	TI-44	67.88		94.40	-4.79E-03	1.45E-02	1.45E-02
		78.34		96.00	9.93E-03		1.54E-02
+	SC-46	889.25		99.98	4.88E-03	2.97E-02	2.97E-02
		1120.51		99.99	1.39E-02		3.68E-02
+	V-48	983.52		99.98	4.54E-03	2.64E-02	2.64E-02
		1312.10		97.50	2.93E-03		3.54E-02
+	CR-51	320.08		9.83	-6.79E-02	1.93E-01	1.93E-01
+	MN-54	834.83	*	99.97	1.34E-02	1.64E-02	1.64E-02
+	CO-56	846.75		99.96	-1.79E-03	2.78E-02	2.78E-02
		1037.75		14.03	-1.13E-02		1.59E-01
		1238.25		67.00	-5.01E-03		5.29E-02
		1771.40		15.51	-2.37E-01		1.37E-01
		2598.48		16.90	3.51E-02		1.69E-01
+	CO-57	122.06		85.51	6.59E-03	1.98E-02	1.98E-02
		136.48		10.60	4.27E-02		1.62E-01
+	CO-58	810.76		99.40	-2.08E-03	2.70E-02	2.70E-02
+	FE-59	1099.22		56.50	-1.47E-03	5.10E-02	5.10E-02
		1291.56		43.20	1.25E-02		6.90E-02
+	CO-60	1173.22		100.00	1.29E-02	3.05E-02	3.51E-02
		1332.49		100.00	4.92E-03		3.05E-02
+	ZN-65	1115.52		50.75	-4.40E-03	5.75E-02	5.75E-02
+	GA-67	93.31		35.70	2.13E-02	5.24E-02	5.24E-02
		208.95		2.24	-5.35E-01		7.76E-01
		300.22		16.00	-7.83E-02		1.22E-01
+	SE-75	121.11		16.70	-3.30E-02	2.83E-02	9.34E-02
		136.00		59.20	3.19E-03		2.83E-02
		264.65		59.80	-1.04E-02		3.33E-02
		279.53		25.20	1.04E-02		8.66E-02
		400.65		11.40	-1.10E-02		1.92E-01
+	RB-82	776.52		13.00	-9.98E-03	1.87E-01	1.87E-01
+	RB-83	520.41		46.00	-8.64E-03	4.02E-02	4.02E-02
		529.64		30.30	4.02E-03		5.99E-02
		552.65		16.40	2.74E-02		1.18E-01
+	KR-85	513.99		0.43	-1.75E-01	7.12E+00	7.12E+00
+	SR-85	513.99		99.27	-7.65E-04	3.11E-02	3.11E-02
+	Y-88	898.02		93.40	-4.23E-03	2.52E-02	3.20E-02
		1836.01		99.38	-1.07E-02		2.52E-02
+	NB-93M	16.57		9.43	-3.82E+03	2.93E+03	2.93E+03
+	NB-94	702.63		100.00	-5.23E-03	2.48E-02	3.35E-02
		871.10		100.00	-6.79E-03		2.48E-02
+	NB-95	765.79		99.81	1.37E-02	3.38E-02	3.38E-02
+	NB-95M	235.69		25.00	-4.48E-02	8.65E-02	8.65E-02
+	ZR-95	724.18		43.70	2.30E-02	4.58E-02	7.02E-02
		756.72		55.30	-9.14E-03		4.58E-02

Analysis Report for 1507092-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	MO-99	181.06	6.20	-1.52E-01	2.27E-01	2.76E-01
		739.58	12.80	-3.84E-02		2.27E-01
		778.00	4.50	1.61E-02		5.44E-01
+	RU-103	497.08	89.00	7.50E-03	2.35E-02	2.35E-02
+	RU-106	621.84	9.80	-1.02E-01	2.63E-01	2.63E-01
+	AG-108M	433.93	89.90	-1.19E-02	2.02E-02	2.02E-02
		614.37	90.40	-7.97E-04		3.14E-02
		722.95	90.50	-1.02E-02		3.20E-02
+	CD-109	88.03	3.72	-1.24E-02	4.61E-01	4.61E-01
+	AG-110M	657.75	93.14	-5.83E-03	2.83E-02	2.83E-02
		677.61	10.53	9.42E-03		2.81E-01
		706.67	16.46	-1.07E-03		1.76E-01
		763.93	21.98	1.47E-02		1.48E-01
		884.67	71.63	1.94E-03		3.77E-02
		1384.27	23.94	2.48E-02		1.44E-01
+	CD-113M	263.70	0.02	-1.31E+01	8.46E+01	8.46E+01
+	SN-113	255.12	1.93	-2.57E-01	3.59E-02	1.03E+00
		391.69	64.90	-2.01E-02		3.59E-02
+	TE123M	159.00	84.10	-1.47E-02	1.90E-02	1.90E-02
+	SB-124	602.71	97.87	9.98E-03	3.29E-02	3.29E-02
		645.85	7.26	2.77E-02		3.65E-01
		722.78	11.10	-8.36E-02		2.61E-01
		1691.02	49.00	1.14E-02		5.50E-02
+	I-125	35.49	6.49	2.66E-01	2.01E+00	2.01E+00
+	SB-125	176.33	6.89	7.30E-02	6.27E-02	2.91E-01
		427.89	29.33	-1.41E-02		6.27E-02
		463.38	10.35	8.65E-02		2.57E-01
		600.56	17.80	8.90E-02		1.80E-01
		635.90	11.32	-5.47E-02		2.06E-01
+	SB-126	414.70	83.30	-5.09E-03	2.35E-02	2.35E-02
		666.33	99.60	-7.36E-03		2.73E-02
		695.00	99.60	3.69E-03		3.43E-02
		720.50	53.80	2.06E-02		5.48E-02
+	SN-126	87.57	37.00	-1.25E-03	4.63E-02	4.63E-02
+	SB-127	473.00	25.00	1.76E-02	6.40E-02	8.28E-02
		685.20	35.70	-4.81E-02		6.40E-02
		783.80	14.70	7.05E-02		1.88E-01
+	I-129	29.78	57.00	-3.00E-02	6.13E-01	6.13E-01
		33.60	13.20	-7.92E-02		1.26E+00
		39.58	7.52	-4.10E-01		1.02E+00
+	I-131	284.30	6.05	-8.21E-02	2.70E-02	3.46E-01
		364.48	81.20	-4.41E-04		2.70E-02
		636.97	7.26	4.97E-02		3.39E-01
		722.89	1.80	-5.16E-01		1.61E+00
+	TE-132	49.72	13.10	-4.58E-02	2.28E-02	3.08E-01
		228.16	88.00	5.35E-03		2.28E-02
+	BA-133	81.00	33.00	3.24E-03	3.45E-02	3.62E-02
		302.84	17.80	2.83E-02		1.19E-01
		356.01	60.00	-1.14E-02		3.45E-02

Analysis Report for 1507092-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-133	529.87	86.30	3.00E-03	2.14E-02	2.14E-02
+	XE-133	81.00	38.00	2.82E-03	3.16E-02	3.16E-02
+	CS-134	563.23	8.38	-1.20E-02	3.06E-02	2.55E-01
		569.32	15.43	5.76E-03		1.53E-01
		604.70	97.60	8.19E-04		3.06E-02
		795.84	85.40	5.27E-03		3.09E-02
		801.93	8.73	6.88E-03		3.13E-01
+	CS-135	268.24	16.00	1.02E-01	1.38E-01	1.38E-01
+	I-135	1131.51	22.50	9.94E-02	9.63E-02	1.65E-01
		1260.41	28.60	0.00E+00		9.63E-02
		1678.03	9.54	1.24E-01		3.93E-01
+	CS-136	153.22	7.46	-1.21E-01	2.71E-02	2.24E-01
		163.89	4.61	2.94E-01		4.40E-01
		176.55	13.56	9.10E-02		1.48E-01
		273.65	12.66	1.55E-03		1.58E-01
		340.57	48.50	2.65E-03		5.02E-02
		818.50	99.70	-6.54E-04		2.71E-02
		1048.07	79.60	1.00E-03		3.63E-02
		1235.34	19.70	3.98E-02		1.67E-01
+	CS-137	661.65	85.12	1.54E-02	3.65E-02	3.65E-02
+	LA-138	788.74	34.00	1.30E-02	4.61E-02	7.71E-02
		1435.80	66.00	-4.83E-03		4.61E-02
+	CE-139	165.85	80.35	-1.32E-03	2.33E-02	2.33E-02
+	BA-140	162.64	6.70	1.01E-01	9.25E-02	2.97E-01
		304.84	4.50	8.81E-02		4.87E-01
		423.70	3.20	1.44E-01		7.41E-01
		437.55	2.00	3.75E-01		1.16E+00
		537.32	25.00	3.07E-02		9.25E-02
+	LA-140	328.77	20.50	-6.23E-02	2.73E-02	9.71E-02
		487.03	45.50	-1.46E-02		4.33E-02
		815.85	23.50	1.95E-02		1.18E-01
		1596.49	95.49	-1.59E-02		2.73E-02
+	CE-141	145.44	48.40	2.58E-02	3.87E-02	3.87E-02
+	CE-143	57.36	11.80	-1.96E-02	5.19E-02	1.72E-01
		293.26	42.00	-2.74E-02		5.19E-02
		664.55	5.20	1.31E-01		5.87E-01
+	CE-144	133.54	10.80	-4.29E-02	1.49E-01	1.49E-01
+	PM-144	476.78	42.00	-1.00E-02	2.80E-02	4.83E-02
		618.01	98.60	7.23E-03		2.80E-02
		696.49	99.49	1.72E-02		3.66E-02
+	PM-145	36.85	21.70	1.45E-01	2.59E-01	5.04E-01
		37.36	39.70	7.46E-02		2.59E-01
		42.30	15.10	1.86E-02		4.14E-01
		72.40	2.31	-9.32E-02		5.99E-01
+	PM-146	453.90	39.94	-2.82E-02	4.68E-02	4.68E-02
		735.90	14.01	1.03E-01		2.37E-01
		747.13	13.10	2.90E-02		2.22E-01
+	ND-147	91.11	28.90	1.51E-02	6.62E-02	6.62E-02
		531.02	13.10	-4.05E-02		1.29E-01

Analysis Report for 1507092-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-149	285.90	3.10	-1.43E-01	6.81E-01	6.81E-01
+	EU-152	121.78	20.50	2.75E-02	8.24E-02	8.24E-02
		244.69	5.40	-7.80E-02		3.97E-01
		344.27	19.13	-2.60E-03		1.10E-01
		778.89	9.20	2.04E-02		2.82E-01
		964.01	10.40	-1.37E-02		3.58E-01
		1085.78	7.22	1.62E-03		3.41E-01
		1112.02	9.60	2.17E-03		3.28E-01
		1407.95	14.94	0.00E+00		2.23E-01
+	GD-153	97.43	31.30	6.27E-03	4.69E-02	4.69E-02
		103.18	22.20	6.69E-03		6.96E-02
+	EU-154	123.07	40.50	1.35E-02	4.17E-02	4.17E-02
		723.30	19.70	-4.71E-02		1.47E-01
		873.19	11.50	-2.68E-02		2.08E-01
		996.32	10.30	6.16E-02		2.79E-01
		1004.76	17.90	-1.16E-02		1.50E-01
		1274.45	35.50	-8.73E-03		5.64E-02
+	EU-155	86.50	30.90	9.84E-03	5.58E-02	5.58E-02
		105.30	20.70	5.19E-02		7.70E-02
+	EU-156	811.77	10.40	1.14E-02	2.73E-01	2.73E-01
		1153.47	7.20	1.93E-01		3.98E-01
		1230.71	8.90	-9.89E-02		3.06E-01
+	HO-166M	184.41	72.60	2.58E-02	3.04E-02	3.04E-02
		280.45	29.60	8.85E-03		7.39E-02
		410.94	11.10	1.02E-02		1.88E-01
		711.69	54.10	-6.97E-03		4.95E-02
+	TM-171	66.72	0.14	1.50E+00	1.03E+01	1.03E+01
+	HF-172	81.75	4.52	-1.44E-02	1.50E-01	2.56E-01
		125.81	11.30	4.51E-02		1.50E-01
+	LU-172	181.53	20.60	-4.74E-02	4.60E-02	8.17E-02
		810.06	16.63	-1.25E-02		1.61E-01
		912.12	15.25	1.08E-01		2.25E-01
		1093.66	62.50	1.30E-02		4.60E-02
+	LU-173	100.72	5.24	2.49E-02	9.28E-02	2.92E-01
		272.11	21.20	-3.04E-02		9.28E-02
+	HF-175	343.40	84.00	6.86E-03	2.60E-02	2.60E-02
+	LU-176	88.34	13.30	-3.48E-03	2.40E-02	1.29E-01
		201.83	86.00	3.52E-03		2.40E-02
		306.78	94.00	1.40E-02		2.41E-02
+	TA-182	67.75	41.20	-1.10E-02	3.33E-02	3.33E-02
		1121.30	34.90	4.12E-02		1.05E-01
		1189.05	16.23	3.26E-02		1.89E-01
		1221.41	26.98	-4.24E-02		1.21E-01
		1231.02	11.44	-5.74E-02		2.51E-01
+	IR-192	308.46	29.68	2.15E-03	4.68E-02	7.37E-02
		468.07	48.10	-1.10E-02		4.68E-02
+	HG-203	279.19	77.30	4.50E-03	2.85E-02	2.85E-02
+	BI-207	569.67	97.72	9.10E-04	2.42E-02	2.42E-02
		1063.62	74.90	-7.73E-03		3.90E-02

Analysis Report for 1507092-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TL-208	583.14	30.22	6.38E-03	9.04E-02	9.04E-02
		860.37	4.48	7.03E-02		6.09E-01
		2614.66	35.85	7.56E-02		1.41E-01
+	BI-210M	262.00	45.00	9.93E-03	4.35E-02	4.35E-02
		300.00	23.00	-5.42E-02		8.44E-02
+	PB-210	46.50	4.25	1.06E+00	1.29E+00	1.29E+00
+	PB-211	404.84	2.90	9.60E-02	7.36E-01	7.36E-01
		831.96	2.90	1.72E-01		9.43E-01
+	BI-212	727.17	11.80	2.01E-02	2.51E-01	2.51E-01
		1620.62	2.75	-4.13E-01		1.44E+00
+	PB-212	238.63	44.60	2.05E-02	5.30E-02	5.30E-02
		300.09	3.41	-3.65E-01		5.70E-01
+	BI-214	609.31	46.30	8.26E-02	8.52E-02	8.52E-02
		1120.29	15.10	9.20E-02		2.44E-01
		1764.49	15.80	2.45E-01		3.33E-01
		2204.22	4.98	4.90E-02		5.88E-01
+	PB-214	295.21	19.19	1.36E-01	7.55E-02	1.32E-01
		351.92	37.19	5.86E-03		7.55E-02
+	RN-219	401.80	6.50	2.84E-01	3.65E-01	3.65E-01
+	RA-223	323.87	3.88	-1.78E-01	4.79E-01	4.79E-01
+	RA-224	240.98	3.95	1.18E-01	5.95E-01	5.95E-01
+	RA-225	40.00	31.00	-9.57E-02	2.37E-01	2.37E-01
+	RA-226	186.21	3.28	3.61E-01	6.76E-01	6.76E-01
+	TH-227	50.10	8.40	-6.98E-02	1.87E-01	4.69E-01
		236.00	11.50	-9.71E-02		1.87E-01
		256.20	6.30	-4.64E-02		3.09E-01
+	AC-228	338.32	11.40	9.55E-02	1.23E-01	2.27E-01
		911.07	27.70	4.35E-02		1.23E-01
		969.11	16.60	8.80E-03		2.21E-01
+	TH-230	48.44	16.90	-1.61E-02	2.65E-01	2.65E-01
		62.85	4.60	4.63E-01		4.33E-01
		67.67	0.37	-1.22E+00		3.71E+00
+	PA-231	283.67	1.60	-3.09E-01	9.20E-01	1.30E+00
		302.67	2.30	2.19E-01		9.20E-01
+	TH-231	25.64	14.70	-2.05E+00	1.94E-01	7.71E+00
		84.21	6.40	3.28E-02		1.94E-01
+	PA-233	311.98	38.60	-2.00E-02	5.30E-02	5.30E-02
+	PA-234	131.20	20.40	-3.42E-03	7.82E-02	7.82E-02
		733.99	8.80	5.12E-02		3.65E-01
		946.00	12.00	3.66E-02		2.30E-01
+	PA-234M	1001.03	0.92	1.07E+00	3.35E+00	3.35E+00
+	TH-234	63.29	3.80	5.57E-01	5.21E-01	5.21E-01
+	U-235	143.76	10.50	-1.21E-01	1.66E-01	1.66E-01
		163.35	4.70	1.45E-01		4.24E-01
		205.31	4.70	1.98E-01		4.46E-01
+	NP-237	86.50	12.60	2.41E-02	1.37E-01	1.37E-01
+	NP-239	106.10	22.70	1.06E-02	6.70E-02	6.70E-02

Analysis Report for 1507092-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	NP-239	228.18	10.70	4.41E-02	6.70E-02	1.88E-01
		277.60	14.10	3.75E-02		1.58E-01
+	AM-241	59.54	35.90	5.61E-04	4.95E-02	4.95E-02
+	AM-243	74.67	66.00	-1.79E-02	2.09E-02	2.09E-02
+	CM-243	209.75	3.29	-2.23E-01	1.58E-01	5.27E-01
		228.14	10.60	4.42E-02		1.89E-01
		277.60	14.00	3.75E-02		1.58E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.95E-01	1.95E-01	-4.04E-02	8.63E-02
	NA-22	1274.54		99.94	2.00E-02	2.00E-02	-3.10E-03	7.49E-03
	NA-24	1368.53		99.99	3.02E-02	2.55E-02	0.00E+00	1.24E-02
		2754.09		99.86	2.55E-02		7.09E-03	9.53E-03
	AL-26	1808.65		99.76	3.68E-02	3.68E-02	1.59E-02	1.53E-02
	K-40	1460.81		10.67	4.10E-01	4.10E-01	1.13E-01	1.79E-01
	AR-41	1293.64		99.16	3.50E-02	3.50E-02	0.00E+00	1.43E-02
	TI-44	67.88		94.40	1.45E-02	1.45E-02	-4.79E-03	6.70E-03
		78.34		96.00	1.54E-02		9.93E-03	7.22E-03
	SC-46	889.25		99.98	2.97E-02	2.97E-02	4.88E-03	1.30E-02
		1120.51		99.99	3.68E-02		1.39E-02	1.61E-02
	V-48	983.52		99.98	2.64E-02	2.64E-02	4.54E-03	1.11E-02
		1312.10		97.50	3.54E-02		2.93E-03	1.50E-02
	CR-51	320.08		9.83	1.93E-01	1.93E-01	-6.79E-02	8.77E-02
+	MN-54	834.83	*	99.97	1.64E-02	1.64E-02	1.34E-02	6.38E-03
	CO-56	846.75		99.96	2.78E-02	2.78E-02	-1.79E-03	1.21E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	1037.75	14.03	1.59E-01	2.78E-02	-1.13E-02	6.42E-02
	1238.25	67.00	5.29E-02		-5.01E-03	2.28E-02
	1771.40	15.51	1.37E-01		-2.37E-01	4.87E-02
	2598.48	16.90	1.69E-01		3.51E-02	6.53E-02
CO-57	122.06	85.51	1.98E-02	1.98E-02	6.59E-03	9.33E-03
	136.48	10.60	1.62E-01		4.27E-02	7.61E-02
CO-58	810.76	99.40	2.70E-02	2.70E-02	-2.08E-03	1.17E-02
FE-59	1099.22	56.50	5.10E-02	5.10E-02	-1.47E-03	2.16E-02
	1291.56	43.20	6.90E-02		1.25E-02	2.86E-02
CO-60	1173.22	100.00	3.51E-02	3.05E-02	1.29E-02	1.52E-02
	1332.49	100.00	3.05E-02		4.92E-03	1.26E-02
ZN-65	1115.52	50.75	5.75E-02	5.75E-02	-4.40E-03	2.43E-02
GA-67	93.31	35.70	5.24E-02	5.24E-02	2.13E-02	2.49E-02
	208.95	2.24	7.76E-01		-5.35E-01	3.58E-01
	300.22	16.00	1.22E-01		-7.83E-02	5.57E-02
SE-75	121.11	16.70	9.34E-02	2.83E-02	-3.30E-02	4.38E-02
	136.00	59.20	2.83E-02		3.19E-03	1.33E-02
	264.65	59.80	3.33E-02		-1.04E-02	1.53E-02
	279.53	25.20	8.66E-02		1.04E-02	4.01E-02
	400.65	11.40	1.92E-01		-1.10E-02	8.68E-02
RB-82	776.52	13.00	1.87E-01	1.87E-01	-9.98E-03	8.06E-02
RB-83	520.41	46.00	4.02E-02	4.02E-02	-8.64E-03	1.74E-02
	529.64	30.30	5.99E-02		4.02E-03	2.58E-02
	552.65	16.40	1.18E-01		2.74E-02	5.10E-02
KR-85	513.99	0.43	7.12E+00	7.12E+00	-1.75E-01	3.28E+00
SR-85	513.99	99.27	3.11E-02	3.11E-02	-7.65E-04	1.43E-02
Y-88	898.02	93.40	3.20E-02	2.52E-02	-4.23E-03	1.40E-02
	1836.01	99.38	2.52E-02		-1.07E-02	9.45E-03
NB-93M	16.57	9.43	2.93E+03	2.93E+03	-3.82E+03	1.41E+03
NB-94	702.63	100.00	3.35E-02	2.48E-02	-5.23E-03	1.52E-02
	871.10	100.00	2.48E-02		-6.79E-03	1.06E-02
NB-95	765.79	99.81	3.38E-02	3.38E-02	1.37E-02	1.52E-02
NB-95M	235.69	25.00	8.65E-02	8.65E-02	-4.48E-02	4.04E-02
ZR-95	724.18	43.70	7.02E-02	4.58E-02	2.30E-02	3.14E-02
	756.72	55.30	4.58E-02		-9.14E-03	1.99E-02
MO-99	181.06	6.20	2.76E-01	2.27E-01	-1.52E-01	1.28E-01
	739.58	12.80	2.27E-01		-3.84E-02	1.01E-01
	778.00	4.50	5.44E-01		1.61E-02	2.34E-01
RU-103	497.08	89.00	2.35E-02	2.35E-02	7.50E-03	1.04E-02
RU-106	621.84	9.80	2.63E-01	2.63E-01	-1.02E-01	1.17E-01
AG-108M	433.93	89.90	2.02E-02	2.02E-02	-1.19E-02	8.87E-03
	614.37	90.40	3.14E-02		-7.97E-04	1.42E-02
	722.95	90.50	3.20E-02		-1.02E-02	1.42E-02
CD-109	88.03	3.72	4.61E-01	4.61E-01	-1.24E-02	2.18E-01
AG-110M	657.75	93.14	2.83E-02	2.83E-02	-5.83E-03	1.25E-02
	677.61	10.53	2.81E-01		9.42E-03	1.26E-01
	706.67	16.46	1.76E-01		-1.07E-03	7.85E-02
	763.93	21.98	1.48E-01		1.47E-02	6.65E-02
	884.67	71.63	3.77E-02		1.94E-03	1.62E-02
	1384.27	23.94	1.44E-01		2.48E-02	6.07E-02
CD-113M	263.70	0.02	8.46E+01	8.46E+01	-1.31E+01	3.89E+01
SN-113	255.12	1.93	1.03E+00	3.59E-02	-2.57E-01	4.73E-01
	391.69	64.90	3.59E-02		-2.01E-02	1.64E-02

Analysis Report for 1507092-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TE123M	159.00	84.10	1.90E-02	1.90E-02	-1.47E-02	8.83E-03
SB-124	602.71	97.87	3.29E-02	3.29E-02	9.98E-03	1.50E-02
	645.85	7.26	3.65E-01		2.77E-02	1.62E-01
	722.78	11.10	2.61E-01		-8.36E-02	1.16E-01
	1691.02	49.00	5.50E-02		1.14E-02	2.13E-02
I-125	35.49	6.49	2.01E+00	2.01E+00	2.66E-01	9.62E-01
SB-125	176.33	6.89	2.91E-01	6.27E-02	7.30E-02	1.37E-01
	427.89	29.33	6.27E-02		-1.41E-02	2.76E-02
	463.38	10.35	2.57E-01		8.65E-02	1.17E-01
	600.56	17.80	1.80E-01		8.90E-02	8.24E-02
	635.90	11.32	2.06E-01		-5.47E-02	9.05E-02
SB-126	414.70	83.30	2.35E-02	2.35E-02	-5.09E-03	1.05E-02
	666.33	99.60	2.73E-02		-7.36E-03	1.21E-02
	695.00	99.60	3.43E-02		3.69E-03	1.56E-02
	720.50	53.80	5.48E-02		2.06E-02	2.44E-02
SN-126	87.57	37.00	4.63E-02	4.63E-02	-1.25E-03	2.19E-02
SB-127	473.00	25.00	8.28E-02	6.40E-02	1.76E-02	3.68E-02
	685.20	35.70	6.40E-02		-4.81E-02	2.77E-02
	783.80	14.70	1.88E-01		7.05E-02	8.24E-02
I-129	29.78	57.00	6.13E-01	6.13E-01	-3.00E-02	2.94E-01
	33.60	13.20	1.26E+00		-7.92E-02	6.06E-01
	39.58	7.52	1.02E+00		-4.10E-01	4.87E-01
I-131	284.30	6.05	3.46E-01	2.70E-02	-8.21E-02	1.59E-01
	364.48	81.20	2.70E-02		-4.41E-04	1.23E-02
	636.97	7.26	3.39E-01		4.97E-02	1.50E-01
	722.89	1.80	1.61E+00		-5.16E-01	7.16E-01
TE-132	49.72	13.10	3.08E-01	2.28E-02	-4.58E-02	1.48E-01
	228.16	88.00	2.28E-02		5.35E-03	1.06E-02
BA-133	81.00	33.00	3.62E-02	3.45E-02	3.24E-03	1.67E-02
	302.84	17.80	1.19E-01		2.83E-02	5.46E-02
	356.01	60.00	3.45E-02		-1.14E-02	1.57E-02
I-133	529.87	86.30	2.14E-02	2.14E-02	3.00E-03	9.22E-03
XE-133	81.00	38.00	3.16E-02	3.16E-02	2.82E-03	1.46E-02
CS-134	563.23	8.38	2.55E-01	3.06E-02	-1.20E-02	1.12E-01
	569.32	15.43	1.53E-01		5.76E-03	6.79E-02
	604.70	97.60	3.06E-02		8.19E-04	1.39E-02
	795.84	85.40	3.09E-02		5.27E-03	1.34E-02
	801.93	8.73	3.13E-01		6.88E-03	1.37E-01
CS-135	268.24	16.00	1.38E-01	1.38E-01	1.02E-01	6.43E-02
I-135	1131.51	22.50	1.65E-01	9.63E-02	9.94E-02	7.19E-02
	1260.41	28.60	9.63E-02		0.00E+00	3.89E-02
	1678.03	9.54	3.93E-01		1.24E-01	1.63E-01
CS-136	153.22	7.46	2.24E-01	2.71E-02	-1.21E-01	1.05E-01
	163.89	4.61	4.40E-01		2.94E-01	2.08E-01
	176.55	13.56	1.48E-01		9.10E-02	6.96E-02
	273.65	12.66	1.58E-01		1.55E-03	7.26E-02
	340.57	48.50	5.02E-02		2.65E-03	2.32E-02
	818.50	99.70	2.71E-02		-6.54E-04	1.18E-02
	1048.07	79.60	3.63E-02		1.00E-03	1.55E-02
	1235.34	19.70	1.67E-01		3.98E-02	7.12E-02
CS-137	661.65	85.12	3.65E-02	3.65E-02	1.54E-02	1.65E-02
LA-138	788.74	34.00	7.71E-02	4.61E-02	1.30E-02	3.35E-02
	1435.80	66.00	4.61E-02		-4.83E-03	1.89E-02

Analysis Report for 1507092-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CE-139	165.85	80.35	2.33E-02	2.33E-02	-1.32E-03	1.10E-02
BA-140	162.64	6.70	2.97E-01	9.25E-02	1.01E-01	1.40E-01
	304.84	4.50	4.87E-01		8.81E-02	2.25E-01
	423.70	3.20	7.41E-01		1.44E-01	3.37E-01
	437.55	2.00	1.16E+00		3.75E-01	5.27E-01
	537.32	25.00	9.25E-02		3.07E-02	4.11E-02
LA-140	328.77	20.50	9.71E-02	2.73E-02	-6.23E-02	4.42E-02
	487.03	45.50	4.33E-02		-1.46E-02	1.90E-02
	815.85	23.50	1.18E-01		1.95E-02	5.15E-02
	1596.49	95.49	2.73E-02		-1.59E-02	1.06E-02
CE-141	145.44	48.40	3.87E-02	3.87E-02	2.58E-02	1.83E-02
CE-143	57.36	11.80	1.72E-01	5.19E-02	-1.96E-02	8.05E-02
	293.26	42.00	5.19E-02		-2.74E-02	2.39E-02
	664.55	5.20	5.87E-01		1.31E-01	2.65E-01
CE-144	133.54	10.80	1.49E-01	1.49E-01	-4.29E-02	6.98E-02
PM-144	476.78	42.00	4.83E-02	2.80E-02	-1.00E-02	2.14E-02
	618.01	98.60	2.80E-02		7.23E-03	1.26E-02
	696.49	99.49	3.66E-02		1.72E-02	1.67E-02
PM-145	36.85	21.70	5.04E-01	2.59E-01	1.45E-01	2.42E-01
	37.36	39.70	2.59E-01		7.46E-02	1.24E-01
	42.30	15.10	4.14E-01		1.86E-02	1.99E-01
	72.40	2.31	5.99E-01		-9.32E-02	2.78E-01
PM-146	453.90	39.94	4.68E-02	4.68E-02	-2.82E-02	2.06E-02
	735.90	14.01	2.37E-01		1.03E-01	1.07E-01
	747.13	13.10	2.22E-01		2.90E-02	9.85E-02
ND-147	91.11	28.90	6.62E-02	6.62E-02	1.51E-02	3.15E-02
	531.02	13.10	1.29E-01		-4.05E-02	5.50E-02
PM-149	285.90	3.10	6.81E-01	6.81E-01	-1.43E-01	3.14E-01
EU-152	121.78	20.50	8.24E-02	8.24E-02	2.75E-02	3.89E-02
	244.69	5.40	3.97E-01		-7.80E-02	1.85E-01
	344.27	19.13	1.10E-01		-2.60E-03	5.02E-02
	778.89	9.20	2.82E-01		2.04E-02	1.23E-01
	964.01	10.40	3.58E-01		-1.37E-02	1.60E-01
	1085.78	7.22	3.41E-01		1.62E-03	1.40E-01
	1112.02	9.60	3.28E-01		2.17E-03	1.40E-01
	1407.95	14.94	2.23E-01		0.00E+00	9.34E-02
GD-153	97.43	31.30	4.69E-02	4.69E-02	6.27E-03	2.20E-02
	103.18	22.20	6.96E-02		6.69E-03	3.27E-02
EU-154	123.07	40.50	4.17E-02	4.17E-02	1.35E-02	1.96E-02
	723.30	19.70	1.47E-01		-4.71E-02	6.54E-02
	873.19	11.50	2.08E-01		-2.68E-02	8.78E-02
	996.32	10.30	2.79E-01		6.16E-02	1.20E-01
	1004.76	17.90	1.50E-01		-1.16E-02	6.32E-02
	1274.45	35.50	5.64E-02		-8.73E-03	2.11E-02
EU-155	86.50	30.90	5.58E-02	5.58E-02	9.84E-03	2.64E-02
	105.30	20.70	7.70E-02		5.19E-02	3.63E-02
EU-156	811.77	10.40	2.73E-01	2.73E-01	1.14E-02	1.19E-01
	1153.47	7.20	3.98E-01		1.93E-01	1.67E-01
	1230.71	8.90	3.06E-01		-9.89E-02	1.25E-01
HO-166M	184.41	72.60	3.04E-02	3.04E-02	2.58E-02	1.43E-02
	280.45	29.60	7.39E-02		8.85E-03	3.42E-02
	410.94	11.10	1.88E-01		1.02E-02	8.47E-02
	711.69	54.10	4.95E-02		-6.97E-03	2.18E-02

Analysis Report for 1507092-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TM-171	66.72	0.14	1.03E+01	1.03E+01	1.50E+00	4.76E+00
HF-172	81.75	4.52	2.56E-01	1.50E-01	-1.44E-02	1.18E-01
	125.81	11.30	1.50E-01		4.51E-02	7.07E-02
LU-172	181.53	20.60	8.17E-02	4.60E-02	-4.74E-02	3.79E-02
	810.06	16.63	1.61E-01		-1.25E-02	7.01E-02
	912.12	15.25	2.25E-01		1.08E-01	9.96E-02
	1093.66	62.50	4.60E-02		1.30E-02	1.94E-02
LU-173	100.72	5.24	2.92E-01	9.28E-02	2.49E-02	1.37E-01
	272.11	21.20	9.28E-02		-3.04E-02	4.27E-02
HF-175	343.40	84.00	2.60E-02	2.60E-02	6.86E-03	1.19E-02
LU-176	88.34	13.30	1.29E-01	2.40E-02	-3.48E-03	6.10E-02
	201.83	86.00	2.40E-02		3.52E-03	1.12E-02
	306.78	94.00	2.41E-02		1.40E-02	1.11E-02
TA-182	67.75	41.20	3.33E-02	3.33E-02	-1.10E-02	1.54E-02
	1121.30	34.90	1.05E-01		4.12E-02	4.62E-02
	1189.05	16.23	1.89E-01		3.26E-02	7.99E-02
	1221.41	26.98	1.21E-01		-4.24E-02	5.15E-02
	1231.02	11.44	2.51E-01		-5.74E-02	1.04E-01
IR-192	308.46	29.68	7.37E-02	4.68E-02	2.15E-03	3.39E-02
	468.07	48.10	4.68E-02		-1.10E-02	2.10E-02
HG-203	279.19	77.30	2.85E-02	2.85E-02	4.50E-03	1.32E-02
BI-207	569.67	97.72	2.42E-02	2.42E-02	9.10E-04	1.07E-02
	1063.62	74.90	3.90E-02		-7.73E-03	1.66E-02
TL-208	583.14	30.22	9.04E-02	9.04E-02	6.38E-03	4.07E-02
	860.37	4.48	6.09E-01		7.03E-02	2.63E-01
	2614.66	35.85	1.41E-01		7.56E-02	6.14E-02
BI-210M	262.00	45.00	4.35E-02	4.35E-02	9.93E-03	2.00E-02
	300.00	23.00	8.44E-02		-5.42E-02	3.85E-02
PB-210	46.50	4.25	1.29E+00	1.29E+00	1.06E+00	6.21E-01
PB-211	404.84	2.90	7.36E-01	7.36E-01	9.60E-02	3.32E-01
	831.96	2.90	9.43E-01		1.72E-01	4.10E-01
BI-212	727.17	11.80	2.51E-01	2.51E-01	2.01E-02	1.12E-01
	1620.62	2.75	1.44E+00		-4.13E-01	6.14E-01
PB-212	238.63	44.60	5.30E-02	5.30E-02	2.05E-02	2.49E-02
	300.09	3.41	5.70E-01		-3.65E-01	2.60E-01
BI-214	609.31	46.30	8.52E-02	8.52E-02	8.26E-02	3.96E-02
	1120.29	15.10	2.44E-01		9.20E-02	1.07E-01
	1764.49	15.80	3.33E-01		2.45E-01	1.47E-01
	2204.22	4.98	5.88E-01		4.90E-02	2.28E-01
PB-214	295.21	19.19	1.32E-01	7.55E-02	1.36E-01	6.15E-02
	351.92	37.19	7.55E-02		5.86E-03	3.52E-02
RN-219	401.80	6.50	3.65E-01	3.65E-01	2.84E-01	1.67E-01
RA-223	323.87	3.88	4.79E-01	4.79E-01	-1.78E-01	2.17E-01
RA-224	240.98	3.95	5.95E-01	5.95E-01	1.18E-01	2.79E-01
RA-225	40.00	31.00	2.37E-01	2.37E-01	-9.57E-02	1.14E-01
RA-226	186.21	3.28	6.76E-01	6.76E-01	3.61E-01	3.19E-01
TH-227	50.10	8.40	4.69E-01	1.87E-01	-6.98E-02	2.25E-01
	236.00	11.50	1.87E-01		-9.71E-02	8.75E-02
	256.20	6.30	3.09E-01		-4.64E-02	1.42E-01
AC-228	338.32	11.40	2.27E-01	1.23E-01	9.55E-02	1.06E-01
	911.07	27.70	1.23E-01		4.35E-02	5.47E-02
	969.11	16.60	2.21E-01		8.80E-03	9.82E-02
TH-230	48.44	16.90	2.65E-01	2.65E-01	-1.61E-02	1.28E-01

Analysis Report for 1507092-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-230	62.85	4.60	4.33E-01	2.65E-01	4.63E-01	2.05E-01
	67.67	0.37	3.71E+00		-1.22E+00	1.71E+00
PA-231	283.67	1.60	1.30E+00	9.20E-01	-3.09E-01	6.01E-01
	302.67	2.30	9.20E-01		2.19E-01	4.23E-01
TH-231	25.64	14.70	7.71E+00	1.94E-01	-2.05E+00	3.70E+00
	84.21	6.40	1.94E-01		3.28E-02	8.97E-02
PA-233	311.98	38.60	5.30E-02	5.30E-02	-2.00E-02	2.42E-02
PA-234	131.20	20.40	7.82E-02	7.82E-02	-3.42E-03	3.67E-02
	733.99	8.80	3.65E-01		5.12E-02	1.64E-01
	946.00	12.00	2.30E-01		3.66E-02	9.84E-02
PA-234M	1001.03	0.92	3.35E+00	3.35E+00	1.07E+00	1.45E+00
TH-234	63.29	3.80	5.21E-01	5.21E-01	5.57E-01	2.46E-01
U-235	143.76	10.50	1.66E-01	1.66E-01	-1.21E-01	7.81E-02
	163.35	4.70	4.24E-01		1.45E-01	2.00E-01
	205.31	4.70	4.46E-01		1.98E-01	2.09E-01
NP-237	86.50	12.60	1.37E-01	1.37E-01	2.41E-02	6.48E-02
NP-239	106.10	22.70	6.70E-02	6.70E-02	1.06E-02	3.14E-02
	228.18	10.70	1.88E-01		4.41E-02	8.75E-02
	277.60	14.10	1.58E-01		3.75E-02	7.32E-02
AM-241	59.54	35.90	4.95E-02	4.95E-02	5.61E-04	2.31E-02
AM-243	74.67	66.00	2.09E-02	2.09E-02	-1.79E-02	9.74E-03
CM-243	209.75	3.29	5.27E-01	1.58E-01	-2.23E-01	2.43E-01
	228.14	10.60	1.89E-01		4.42E-02	8.77E-02
	277.60	14.00	1.58E-01		3.75E-02	7.32E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507092-02

BLANK

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	152
9:	544	1010	818	298	658	1545	188	79
17:	82	74	73	79	75	82	77	75
25:	63	50	67	61	52	63	57	57
33:	54	61	56	59	69	57	55	60
41:	51	67	63	59	60	80	88	83
49:	64	60	63	57	51	50	37	36
57:	23	18	24	25	18	24	36	39
65:	14	22	19	15	18	21	21	16
73:	22	22	28	11	35	22	17	17
81:	16	15	14	15	24	16	22	28
89:	18	23	20	30	44	21	13	20
97:	10	14	23	10	15	18	17	17
105:	17	20	18	7	13	18	18	19
113:	22	10	11	16	19	9	11	19
121:	18	14	15	25	18	12	18	16
129:	15	13	22	16	9	15	16	19
137:	14	16	19	14	20	13	16	18
145:	21	14	25	12	22	25	15	11
153:	17	15	11	14	10	12	11	13
161:	14	21	21	20	17	17	12	14
169:	14	7	9	22	18	12	17	17
177:	15	24	12	11	8	15	12	10
185:	18	43	15	12	16	11	13	13
193:	7	8	12	18	12	12	12	14
201:	14	15	14	18	15	14	15	9
209:	8	10	7	15	11	8	7	13
217:	5	19	15	8	13	10	6	8
225:	10	19	7	11	11	11	10	15
233:	12	9	12	13	14	18	22	11
241:	14	12	18	11	12	10	11	15
249:	7	15	9	15	11	6	9	11
257:	12	9	10	11	5	11	9	10
265:	6	9	13	12	11	13	6	9
273:	8	8	11	9	11	13	12	10
281:	8	10	9	10	9	9	13	6
289:	12	6	9	5	8	10	16	20
297:	13	5	8	6	7	11	10	7
305:	9	8	13	6	14	5	9	6
313:	8	11	7	4	12	6	4	10
321:	7	5	6	5	4	10	9	8
329:	3	7	7	11	6	7	9	14
337:	7	11	18	8	8	10	6	9
345:	6	5	7	5	10	6	10	31
353:	12	6	14	4	7	2	7	5
361:	12	2	7	11	7	9	3	9

369:	6	8	7	7	5	7	5	9

Sample Title: BLANK

Channel								
377:	7	1	4	6	11	9	8	3
385:	10	3	3	8	12	5	6	11
393:	7	8	10	2	7	5	2	3
401:	12	7	7	8	3	6	5	4
409:	7	4	3	9	4	7	4	5
417:	3	6	5	6	6	7	15	7
425:	2	3	5	6	5	0	6	4
433:	2	3	7	2	14	3	5	3
441:	8	6	2	7	8	5	7	3
449:	1	10	5	4	3	3	5	3
457:	7	4	4	8	7	3	8	7
465:	13	6	4	9	4	3	7	2
473:	6	1	5	4	2	3	6	4
481:	8	6	8	5	3	5	1	3
489:	6	4	4	4	6	2	4	3
497:	6	3	4	1	2	2	3	10
505:	5	5	5	10	13	23	36	23
513:	9	8	3	2	6	3	6	0
521:	3	2	3	4	3	3	3	3
529:	4	1	2	3	1	2	5	5
537:	3	7	2	4	3	5	6	3
545:	5	3	2	0	3	5	3	3
553:	2	1	1	3	1	7	1	4
561:	3	2	4	4	4	8	1	2
569:	7	7	4	3	1	6	2	4
577:	1	1	9	3	3	1	7	5
585:	4	5	1	4	0	4	2	1
593:	3	3	3	4	7	4	4	3
601:	11	4	5	2	4	9	4	4
609:	16	13	7	5	3	3	3	2
617:	5	4	2	5	5	4	1	2
625:	3	4	5	3	2	4	4	4
633:	1	2	3	2	3	2	4	3
641:	2	2	2	6	2	5	0	3
649:	4	3	4	6	1	4	1	2
657:	2	5	3	5	3	8	2	4
665:	2	4	5	3	2	2	4	2
673:	3	4	2	4	5	2	4	5
681:	4	5	1	2	0	4	2	0
689:	4	4	1	3	2	6	3	5
697:	8	7	8	5	5	4	3	3
705:	4	5	3	3	2	2	3	2
713:	5	2	4	1	2	6	2	1
721:	6	2	4	1	2	6	4	5
729:	1	4	3	3	3	5	6	4
737:	3	4	4	2	2	2	2	3
745:	4	2	1	4	3	4	1	5
753:	2	3	2	0	2	2	4	1
761:	4	2	5	3	6	1	5	4
769:	4	1	3	2	1	2	0	3
777:	1	5	1	1	2	2	2	3
785:	2	1	5	0	3	2	2	0
793:	2	4	1	2	5	0	1	2

801:	2	4	4	3	0	3	1	3

Sample Title: BLANK

Channel								
809:	4	2	0	3	2	3	3	2
817:	1	0	5	3	1	1	3	2
825:	1	0	0	1	0	3	4	0
833:	1	1	6	6	0	2	1	4
841:	2	2	4	3	0	2	4	2
849:	0	4	1	3	0	2	0	4
857:	5	2	1	0	3	1	2	2
865:	1	3	4	3	1	1	2	1
873:	1	2	1	2	1	2	4	1
881:	5	1	0	0	3	1	3	4
889:	1	3	2	2	4	0	5	2
897:	2	1	5	0	1	2	4	1
905:	2	1	2	3	1	6	2	4
913:	3	2	3	1	0	2	2	2
921:	1	2	5	1	1	3	1	0
929:	2	3	2	2	2	3	1	4
937:	3	2	2	2	4	1	3	0
945:	2	2	2	3	0	0	1	3
953:	2	3	4	4	4	2	3	5
961:	6	2	2	1	3	7	2	2
969:	4	3	3	1	6	1	0	4
977:	2	1	2	1	1	2	0	3
985:	0	3	0	1	2	1	0	3
993:	2	3	1	4	0	0	2	2
1001:	1	3	4	2	0	0	0	2
1009:	1	4	2	2	0	0	1	1
1017:	0	0	2	1	1	2	4	0
1025:	2	0	1	4	3	1	4	1
1033:	0	1	1	0	0	2	0	2
1041:	2	1	1	2	2	1	0	2
1049:	3	2	1	0	3	0	1	2
1057:	2	5	1	3	1	1	1	3
1065:	0	2	1	2	3	3	1	0
1073:	2	2	3	1	1	2	2	2
1081:	1	1	0	0	2	2	2	0
1089:	0	1	1	2	0	2	1	3
1097:	2	1	2	0	2	0	0	3
1105:	2	5	3	1	1	3	2	2
1113:	1	2	1	2	1	1	2	5
1121:	4	1	3	1	1	1	1	2
1129:	4	1	3	3	1	1	0	0
1137:	1	2	2	1	1	2	0	2
1145:	1	1	1	1	0	2	2	2
1153:	1	2	0	0	0	0	2	2
1161:	2	2	1	1	1	0	2	4
1169:	1	1	3	4	2	1	2	1
1177:	0	0	1	1	3	2	2	1
1185:	1	2	1	1	0	1	4	1
1193:	2	0	3	0	1	0	1	0
1201:	3	0	1	0	0	1	0	2
1209:	0	4	0	0	0	1	0	1
1217:	5	0	2	2	2	2	1	2
1225:	0	4	0	3	1	1	0	1

1233: 1 1 2 1 1 4 2 1

Sample Title: BLANK

Channel								
1241:	2	3	3	0	0	2	1	2
1249:	1	0	0	2	0	0	0	1
1257:	2	4	0	0	0	0	0	2
1265:	1	1	1	2	1	1	0	0
1273:	1	1	0	1	0	1	1	6
1281:	1	1	1	0	0	1	1	0
1289:	2	0	2	2	2	0	0	1
1297:	1	1	1	2	0	0	1	1
1305:	0	1	2	3	1	0	3	3
1313:	3	0	1	0	1	1	1	2
1321:	0	1	2	2	0	0	1	0
1329:	1	1	1	1	2	1	1	0
1337:	2	0	2	1	1	4	0	2
1345:	0	1	0	0	1	2	1	0
1353:	2	0	4	1	0	0	0	1
1361:	0	1	0	2	1	2	0	2
1369:	0	2	0	0	2	0	0	0
1377:	1	3	2	0	2	0	1	2
1385:	3	1	1	1	1	0	1	1
1393:	2	3	1	3	0	2	2	1
1401:	2	0	1	0	3	2	2	0
1409:	0	2	2	0	1	1	1	0
1417:	1	1	2	2	0	1	0	0
1425:	0	1	1	2	0	1	1	0
1433:	1	2	0	0	2	2	2	1
1441:	2	2	0	0	2	1	1	1
1449:	1	2	0	0	0	0	0	2
1457:	0	0	0	4	10	2	0	4
1465:	0	2	4	1	0	2	0	0
1473:	1	1	2	0	2	1	2	0
1481:	0	1	1	2	1	1	1	0
1489:	0	0	0	0	1	0	0	0
1497:	1	1	1	1	1	1	1	0
1505:	1	0	1	0	2	1	2	1
1513:	0	1	0	1	0	0	2	2
1521:	0	0	1	1	0	1	0	0
1529:	2	0	1	0	1	1	1	0
1537:	1	1	0	1	0	0	2	0
1545:	0	4	1	0	1	0	0	0
1553:	0	0	2	1	0	2	0	3
1561:	0	0	0	1	2	1	0	0
1569:	2	1	1	0	0	1	0	0
1577:	1	0	0	1	1	0	0	2
1585:	1	1	0	1	1	0	1	0
1593:	1	1	1	1	0	0	0	0
1601:	3	0	2	1	1	1	0	1
1609:	0	0	0	0	0	2	2	0
1617:	0	2	1	0	2	2	2	2
1625:	1	2	0	1	2	2	2	1
1633:	2	0	1	1	0	1	1	2
1641:	1	2	0	0	0	1	0	0
1649:	0	0	0	0	0	2	1	1
1657:	0	0	0	0	2	1	0	0

1665:	0	0	0	0	1	1	0	0

Sample Title: BLANK

Channel								
1673:	1	1	2	1	1	1	0	1
1681:	0	0	1	0	1	2	0	0
1689:	0	0	1	0	1	0	0	0
1697:	1	0	0	2	1	0	0	2
1705:	1	2	1	0	0	1	1	0
1713:	1	1	0	0	0	1	1	0
1721:	0	1	0	0	0	1	0	2
1729:	0	1	0	0	0	1	0	1
1737:	0	0	0	1	1	0	1	3
1745:	1	1	1	1	0	0	0	0
1753:	0	2	1	0	0	0	1	2
1761:	0	1	5	2	2	6	0	1
1769:	0	0	0	1	0	0	0	1
1777:	1	2	0	0	1	1	0	0
1785:	0	0	1	0	1	0	0	0
1793:	0	1	0	1	0	0	0	1
1801:	0	0	1	2	0	2	0	1
1809:	1	0	1	1	0	0	0	0
1817:	0	0	0	0	0	0	1	0
1825:	0	1	1	0	0	0	0	0
1833:	1	0	2	0	0	0	0	3
1841:	0	1	0	0	1	1	0	0
1849:	1	2	0	0	0	0	1	0
1857:	1	0	0	0	1	0	0	0
1865:	0	1	1	0	1	0	0	1
1873:	0	1	0	0	0	1	1	1
1881:	0	0	0	1	0	0	2	0
1889:	0	2	0	0	0	0	0	0
1897:	0	1	2	0	0	1	0	0
1905:	0	0	1	1	0	0	0	0
1913:	1	1	0	1	1	0	0	0
1921:	0	0	1	0	0	0	2	0
1929:	1	0	0	0	1	0	0	1
1937:	3	2	1	1	0	0	0	0
1945:	1	1	0	0	1	0	0	0
1953:	1	1	1	0	0	0	1	0
1961:	0	0	0	0	1	0	1	0
1969:	1	1	0	0	1	1	0	0
1977:	1	1	1	0	0	0	0	1
1985:	1	0	0	0	0	0	0	0
1993:	1	0	1	0	0	1	0	1
2001:	0	0	1	0	0	0	0	0
2009:	0	0	1	0	0	0	0	0
2017:	2	0	0	0	1	1	0	0
2025:	0	1	1	0	0	0	0	1
2033:	0	2	0	0	0	0	0	0
2041:	0	0	1	0	1	1	1	0
2049:	1	0	0	0	0	1	0	0
2057:	0	0	0	0	0	1	1	1
2065:	0	1	0	0	2	0	2	1
2073:	0	0	0	0	1	0	0	1
2081:	0	1	0	1	1	1	0	0
2089:	1	0	1	0	0	1	0	1

2097:	0	0	0	0	0	1	0	1

Sample Title: BLANK

Channel								
2105:	2	1	0	0	0	2	1	1
2113:	0	0	1	0	0	0	2	1
2121:	0	3	0	0	1	1	0	0
2129:	1	1	0	0	1	2	1	0
2137:	0	0	1	0	0	0	0	1
2145:	0	0	0	0	2	1	0	0
2153:	0	0	0	1	0	0	0	0
2161:	0	0	1	1	1	0	0	1
2169:	0	0	1	0	0	1	0	0
2177:	0	0	0	1	0	2	1	0
2185:	0	0	0	1	0	0	0	1
2193:	0	0	1	0	1	0	0	1
2201:	1	0	0	0	2	0	0	0
2209:	0	1	0	0	0	1	0	0
2217:	1	1	0	1	2	0	1	0
2225:	1	1	0	2	0	0	0	1
2233:	0	1	0	0	0	1	1	0
2241:	0	0	1	0	0	0	0	0
2249:	1	1	0	1	0	0	0	2
2257:	0	0	1	1	0	1	0	0
2265:	0	0	1	1	1	0	1	1
2273:	2	0	2	0	1	0	0	0
2281:	0	0	0	1	0	0	1	1
2289:	1	0	2	0	1	0	1	2
2297:	1	0	0	1	0	0	1	2
2305:	0	0	1	0	0	0	0	0
2313:	0	0	0	1	0	1	1	0
2321:	1	1	1	1	1	0	0	0
2329:	1	0	2	0	0	0	0	0
2337:	2	0	0	0	0	0	0	0
2345:	1	1	0	1	0	0	0	1
2353:	0	0	1	0	1	0	1	0
2361:	0	1	1	0	0	0	0	0
2369:	0	0	1	0	1	1	1	1
2377:	3	1	0	4	2	1	1	1
2385:	0	0	0	0	2	0	0	0
2393:	0	0	0	1	1	0	0	0
2401:	0	0	0	0	1	0	0	0
2409:	0	0	0	1	0	0	0	0
2417:	0	0	1	1	0	0	0	0
2425:	1	0	1	0	0	1	2	0
2433:	0	0	0	0	0	0	0	0
2441:	0	1	1	0	1	0	1	0
2449:	1	0	2	0	0	0	0	0
2457:	1	0	0	1	0	2	0	0
2465:	0	0	0	0	0	0	1	1
2473:	0	0	1	0	0	0	1	0
2481:	0	0	1	1	1	0	0	0
2489:	0	0	0	0	0	1	1	0
2497:	0	0	0	0	0	0	1	0
2505:	0	0	0	0	0	0	0	0
2513:	1	0	0	0	1	0	0	1
2521:	0	0	0	0	0	0	1	0

2529:	1	0	3	0	0	0	0	1

Sample Title: BLANK

Channel								
2537:	2	0	0	0	1	0	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	1	1	1	1	0	0
2561:	0	0	0	0	0	1	0	1
2569:	0	1	0	1	0	0	0	0
2577:	0	1	0	0	1	0	0	1
2585:	0	1	0	0	0	0	0	1
2593:	0	0	1	0	1	0	0	0
2601:	2	0	0	0	0	0	0	0
2609:	2	0	0	1	3	2	6	3
2617:	1	0	1	0	0	0	1	0
2625:	0	0	1	0	0	0	0	0
2633:	0	0	1	0	0	1	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	0	1
2657:	1	0	0	1	1	0	1	0
2665:	1	1	0	0	0	0	0	1
2673:	0	0	0	0	0	0	0	0
2681:	1	0	0	0	0	0	0	0
2689:	0	1	0	0	0	0	0	1
2697:	0	0	0	0	0	0	0	0
2705:	0	0	0	0	0	0	0	1
2713:	0	0	0	0	0	0	0	1
2721:	0	1	0	0	0	0	1	0
2729:	0	0	0	0	0	1	0	1
2737:	0	0	0	0	0	0	0	0
2745:	0	0	0	0	0	1	0	1
2753:	1	0	0	0	0	0	0	0
2761:	1	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	0	0
2785:	0	0	0	0	0	1	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	1	1	0	1	0	0	0
2809:	0	0	0	1	0	0	1	0
2817:	0	1	0	0	0	2	0	0
2825:	0	1	0	2	0	1	0	0
2833:	0	0	0	0	1	0	1	0
2841:	0	0	0	0	0	0	0	0
2849:	0	1	0	1	1	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	1	1	0	0	0	0
2873:	0	0	0	1	1	0	1	0
2881:	0	1	0	0	0	0	0	1
2889:	0	0	0	0	0	0	0	0
2897:	0	2	0	1	0	1	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	1	0	0	0	1
2937:	0	0	0	0	0	0	0	1
2945:	0	2	0	0	0	0	0	0
2953:	1	0	0	0	1	0	0	0

2961:	0	0	0	1	0	0	0	0

Sample Title: BLANK

Channel								
2969:	1	0	0	1	0	0	1	0
2977:	0	0	0	0	1	0	0	1
2985:	0	0	0	2	0	0	0	1
2993:	0	0	0	0	0	0	0	2
3001:	0	0	0	2	0	0	0	0
3009:	0	0	1	0	1	0	2	0
3017:	0	0	0	0	1	1	0	0
3025:	0	0	0	0	0	1	0	2
3033:	0	0	0	1	1	0	0	0
3041:	2	1	0	0	0	0	0	0
3049:	0	0	0	1	0	1	1	2
3057:	0	0	0	0	0	0	0	1
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	1	0	0	0	0	0	1	0
3097:	0	1	0	1	0	0	0	0
3105:	0	0	0	1	0	0	1	0
3113:	1	0	0	0	1	0	0	1
3121:	1	0	0	0	1	1	0	0
3129:	0	0	0	1	0	0	0	1
3137:	0	0	0	0	0	0	0	0
3145:	0	0	2	0	0	0	0	0
3153:	0	0	0	0	0	0	0	1
3161:	0	1	0	0	0	0	0	0
3169:	0	1	1	1	0	1	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	1	0	0	0	0	0	0	1
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	1	0	1	1	0
3217:	0	0	0	0	0	1	0	0
3225:	1	0	1	0	0	0	0	0
3233:	0	0	1	0	0	0	0	0
3241:	0	0	0	0	0	0	0	2
3249:	0	0	0	0	1	0	0	0
3257:	0	0	0	0	0	1	0	0
3265:	0	0	0	0	0	0	0	0
3273:	1	0	0	0	0	0	0	0
3281:	0	0	1	0	0	0	0	0
3289:	0	0	0	0	0	0	0	1
3297:	0	0	0	0	1	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	1	0	0	0	0
3321:	1	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	1	0	0	0	0	0	0
3345:	0	0	0	0	1	0	0	0
3353:	0	0	0	0	0	1	0	0
3361:	0	1	0	0	1	0	0	0
3369:	0	0	0	0	0	1	0	0
3377:	0	0	1	0	0	0	0	0
3385:	0	0	0	2	1	0	1	0

3393:	0	1	0	0	0	0	0	0

Sample Title: BLANK

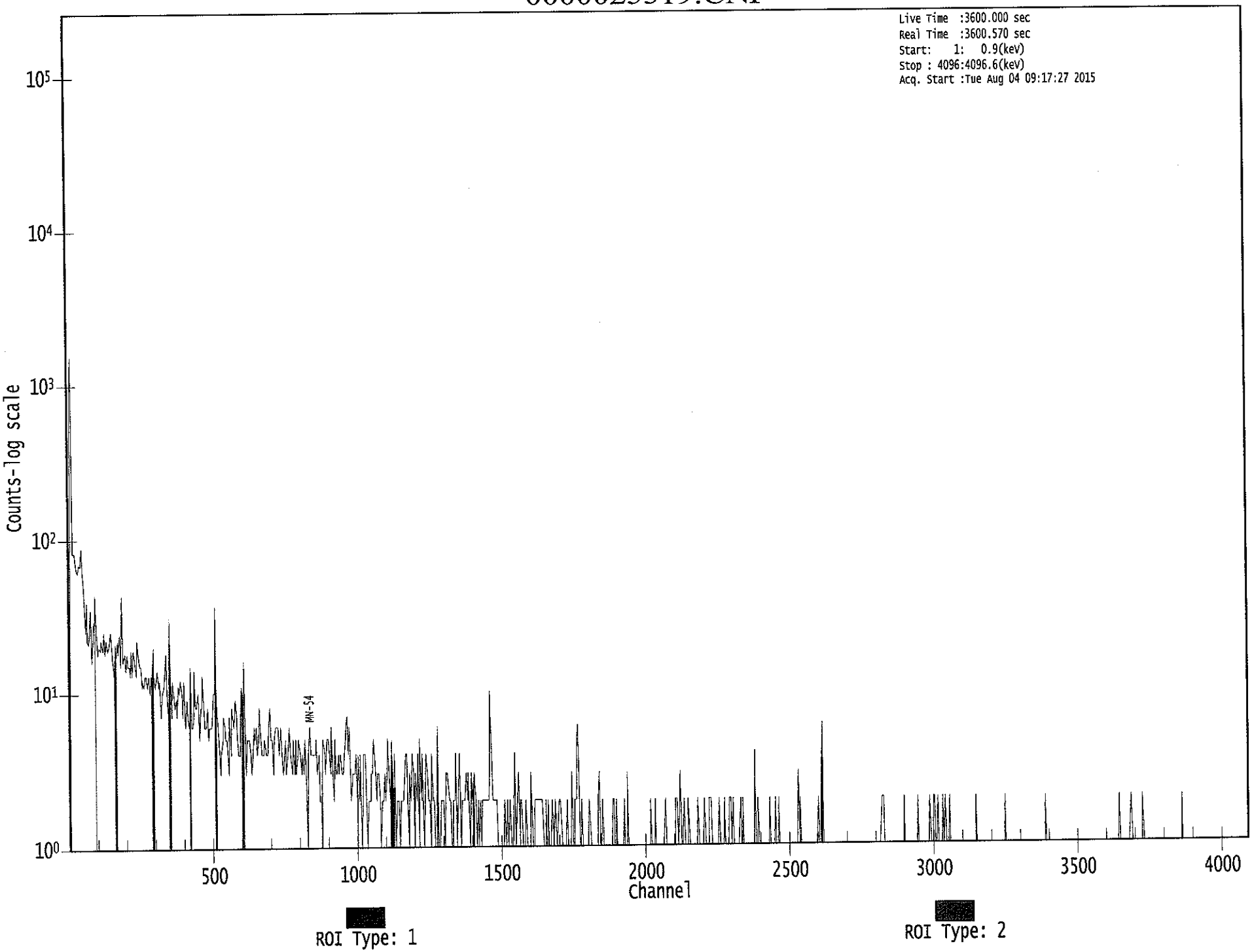
Channel								
3401:	1	0	0	0	0	0	0	0
3409:	0	1	0	0	0	0	0	0
3417:	0	1	0	0	0	0	0	0
3425:	0	1	0	0	0	0	0	0
3433:	1	0	0	0	1	0	0	0
3441:	0	0	0	1	0	0	0	1
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	1	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	1	0	0	0	0	1
3489:	0	0	0	0	0	1	1	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	1
3529:	0	1	1	0	0	0	0	0
3537:	0	0	0	0	0	1	0	1
3545:	0	0	0	0	1	0	0	0
3553:	0	0	0	0	0	0	1	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	1	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	1	0	0	0	0	1	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	1	0	0
3609:	0	1	0	1	0	0	0	0
3617:	0	1	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	1	0	0	2	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	0	0	0	0	1	0
3665:	0	0	1	0	1	0	0	0
3673:	0	0	1	0	0	0	1	0
3681:	1	0	0	0	0	2	1	0
3689:	0	0	0	1	0	1	1	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	1	0	0	0	0
3713:	0	0	1	0	1	1	0	1
3721:	0	0	0	0	2	1	0	0
3729:	0	0	0	1	0	1	1	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	1	0	0	0	1	0	0
3761:	0	1	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	1	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	1	0	1
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	1	0	0	0	0

3825:	0	0	0	0	1	0	0	1

Sample Title: BLANK

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	1
3849:	0	0	0	1	0	1	0	0
3857:	0	0	0	0	0	2	0	1
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	1	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	1	0	1	0	0	0
3913:	0	0	0	0	0	0	1	0
3921:	0	1	0	0	0	0	0	1
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	1
3945:	0	0	0	1	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	1	0	0	0	1
3969:	1	0	0	0	0	0	0	1
3977:	1	0	0	0	0	0	0	0
3985:	1	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	1	0
4009:	0	0	0	0	0	0	0	1
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	1	0	1	0	1
4033:	0	0	0	0	1	0	0	0
4041:	0	0	0	1	0	1	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	1	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	1	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000025519.CNF



Apex-Gamma

Analysis Report for 1507092-03
FEEBRIS1D-19 061-063

C
8/6

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507092-03
Sample Description	: FEEBRIS1D-19 061-063
Sample Type	: SOIL
Sample Size	: 5.201E+02 grams
Facility	: Countroom
Sample Taken On	: 7/8/2015 8:57:32AM
Acquisition Started	: 8/6/2015 6:08:41AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3607.5 seconds
Dead Time	: 0.21 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 25631

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/6/15

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

PEAK LOCATE REPORT

Peak Locate Performed on : 8/6/2015 7:09:15AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	63.35	62.61	0.0000	0.00
2	76.07	75.34	0.0000	0.00
3	93.27	92.54	0.0000	0.00
4	185.65	184.97	0.0000	0.00
5	239.35	238.69	0.0000	0.00
6	269.61	268.96	0.0000	0.00
7	295.42	294.78	0.0000	0.00
8	338.71	338.09	0.0000	0.00
9	351.82	351.21	0.0000	0.00
10	468.83	468.27	0.0000	0.00
11	473.56	473.00	0.0000	0.00
12	480.28	479.73	0.0000	0.00
13	582.73	582.22	0.0000	0.00
14	609.22	608.73	0.0000	0.00
15	661.06	660.59	0.0000	0.00
16	728.37	727.93	0.0000	0.00
17	860.79	860.42	0.0000	0.00
18	881.26	880.91	0.0000	0.00
19	911.35	911.01	0.0000	0.00
20	967.27	966.95	0.0000	0.00
21	1094.18	1093.94	0.0000	0.00
22	1120.02	1119.80	0.0000	0.00
23	1186.19	1186.00	0.0000	0.00
24	1239.28	1239.12	0.0000	0.00
25	1317.38	1317.27	0.0000	0.00
26	1346.98	1346.89	0.0000	0.00
27	1357.76	1357.67	0.0000	0.00
28	1377.23	1377.15	0.0000	0.00
29	1402.23	1402.17	0.0000	0.00
30	1460.29	1460.26	0.0000	0.00
31	1704.22	1704.34	0.0000	0.00
32	1728.80	1728.94	0.0000	0.00
33	1763.31	1763.47	0.0000	0.00
34	1848.78	1849.00	0.0000	0.00
35	2024.52	2024.86	0.0000	0.00
36	2160.06	2160.49	0.0000	0.00
37	2307.14	2307.68	0.0000	0.00
38	2613.87	2614.64	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:09:15AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	63.35	58 -	67	62.61	1.94E+02	100.00	1.32E+03	2.72
	2	76.07	68 -	80	75.34	7.23E+02	131.78	1.70E+03	3.65
	3	93.27	89 -	96	92.54	1.94E+02	84.59	9.74E+02	2.23
	4	185.65	179 -	189	184.97	8.31E+01	74.86	7.00E+02	2.08
	5	239.35	233 -	246	238.69	4.80E+02	84.90	5.86E+02	2.97
	6	269.61	265 -	273	268.96	7.60E+01	47.89	3.06E+02	3.85
	7	295.42	289 -	300	294.78	8.89E+01	64.40	4.74E+02	2.05
	8	338.71	333 -	344	338.09	1.01E+02	54.30	3.19E+02	3.02
	9	351.82	347 -	356	351.21	1.72E+02	53.93	3.11E+02	2.56
M	10	468.83	466 -	484	468.27	2.36E+01	17.74	5.29E+01	3.02
m	11	473.56	466 -	484	473.00	3.54E+01	25.85	7.82E+01	2.74
m	12	480.28	466 -	484	479.73	2.39E+01	27.14	7.76E+01	3.02
	13	582.73	574 -	590	582.22	1.67E+02	49.53	1.70E+02	3.10
	14	609.22	604 -	612	608.73	1.43E+02	38.05	1.35E+02	2.50
	15	661.06	655 -	668	660.59	3.70E+01	35.75	1.24E+02	3.31
	16	728.37	723 -	734	727.93	3.29E+01	31.50	1.06E+02	3.76
	17	860.79	857 -	865	860.42	1.70E+01	20.47	5.40E+01	1.65
	18	881.26	876 -	885	880.91	2.73E+01	18.73	3.34E+01	4.83
	19	911.35	906 -	917	911.01	5.11E+01	26.08	5.78E+01	3.04
	20	967.27	960 -	980	966.95	5.47E+01	45.43	1.51E+02	5.18
	21	1094.18	1091 -	1097	1093.94	1.45E+01	13.92	2.50E+01	3.26
	22	1120.02	1116 -	1126	1119.80	2.29E+01	21.64	5.23E+01	4.60
	23	1186.19	1174 -	1198	1186.00	3.95E+01	44.39	1.25E+02	21.12
	24	1239.28	1235 -	1245	1239.12	1.83E+01	22.99	6.14E+01	3.89
	25	1317.38	1312 -	1321	1317.27	2.19E+01	13.82	1.42E+01	4.56
	26	1346.98	1342 -	1352	1346.89	1.53E+01	11.85	9.30E+00	7.09
	27	1357.76	1354 -	1362	1357.67	1.01E+01	10.02	9.87E+00	1.21
	28	1377.23	1373 -	1381	1377.15	1.36E+01	11.86	1.29E+01	2.52
	29	1402.23	1396 -	1410	1402.17	2.58E+01	13.28	8.50E+00	3.59
	30	1460.29	1454 -	1466	1460.26	2.31E+02	30.40	0.00E+00	2.91
	31	1704.22	1701 -	1707	1704.34	7.00E+00	9.21	1.00E+01	2.65
	32	1728.80	1724 -	1731	1728.94	5.50E+00	6.63	3.00E+00	2.37
	33	1763.31	1758 -	1769	1763.47	3.08E+01	14.83	1.25E+01	3.28
	34	1848.78	1845 -	1852	1849.00	8.00E+00	5.66	0.00E+00	2.22
	35	2024.52	2021 -	2028	2024.86	7.00E+00	5.29	0.00E+00	1.47
	36	2160.06	2156 -	2163	2160.49	6.94E+00	7.21	4.11E+00	2.56
	37	2307.14	2303 -	2312	2307.68	1.04E+01	8.77	5.15E+00	7.69
	38	2613.87	2610 -	2618	2614.64	2.50E+01	10.00	0.00E+00	2.00

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:09:15AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	63.35	58 -	67	1.94E+02	100.00	1.32E+03	7.89E+01
	2	76.07	68 -	80	7.23E+02	131.78	1.70E+03	9.89E+01
	3	93.27	89 -	96	1.94E+02	84.59	9.74E+02	6.57E+01
	4	185.65	179 -	189	8.31E+01	74.86	7.00E+02	5.97E+01
	5	239.35	233 -	246	4.80E+02	84.90	5.86E+02	5.98E+01
	6	269.61	265 -	273	7.60E+01	47.89	3.06E+02	3.67E+01
	7	295.42	289 -	300	8.89E+01	64.40	4.74E+02	5.06E+01
	8	338.71	333 -	344	1.01E+02	54.30	3.19E+02	4.15E+01
	9	351.82	347 -	356	1.72E+02	53.93	3.11E+02	3.87E+01
M	10	468.83	466 -	484	2.36E+01	17.74	5.29E+01	1.20E+01
m	11	473.56	466 -	484	3.54E+01	25.85	7.82E+01	1.45E+01
m	12	480.28	466 -	484	2.39E+01	27.14	7.76E+01	1.45E+01
	13	582.73	574 -	590	1.67E+02	49.53	1.70E+02	3.47E+01
	14	609.22	604 -	612	1.43E+02	38.05	1.35E+02	2.43E+01
	15	661.06	655 -	668	3.70E+01	35.75	1.24E+02	2.76E+01
	16	728.37	723 -	734	3.29E+01	31.50	1.06E+02	3.27E+01
	17	860.79	857 -	865	1.70E+01	20.47	5.40E+01	1.54E+01
	18	881.26	876 -	885	2.73E+01	18.73	3.34E+01	1.28E+01
	19	911.35	906 -	917	5.11E+01	26.08	5.78E+01	1.79E+01
	20	967.27	960 -	980	5.47E+01	45.43	1.51E+02	3.53E+01
	21	1094.18	1091 -	1097	1.45E+01	13.92	2.50E+01	9.58E+00
	22	1120.02	1116 -	1126	2.29E+01	21.64	5.23E+01	1.60E+01
	23	1186.19	1174 -	1198	3.95E+01	44.39	1.25E+02	3.50E+01
	24	1239.28	1235 -	1245	1.83E+01	22.99	6.14E+01	1.75E+01
	25	1317.38	1312 -	1321	2.19E+01	13.82	1.42E+01	8.36E+00
	26	1346.98	1342 -	1352	1.53E+01	11.85	9.30E+00	7.31E+00
	27	1357.76	1354 -	1362	1.01E+01	10.02	9.87E+00	6.38E+00
	28	1377.23	1373 -	1381	1.36E+01	11.86	1.29E+01	7.65E+00
	29	1402.23	1396 -	1410	2.58E+01	13.28	8.50E+00	7.04E+00
	30	1460.29	1454 -	1466	2.31E+02	30.40	0.00E+00	0.00E+00
	31	1704.22	1701 -	1707	7.00E+00	9.21	1.00E+01	6.19E+00

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1728.80	1724 -	1731	5.50E+00	6.63	3.00E+00	3.86E+00
33	1763.31	1758 -	1769	3.08E+01	14.83	1.25E+01	8.09E+00
34	1848.78	1845 -	1852	8.00E+00	5.66	0.00E+00	0.00E+00
35	2024.52	2021 -	2028	7.00E+00	5.29	0.00E+00	0.00E+00
36	2160.06	2156 -	2163	6.94E+00	7.21	4.11E+00	4.05E+00
37	2307.14	2303 -	2312	1.04E+01	8.77	5.15E+00	4.88E+00
38	2613.87	2610 -	2618	2.50E+01	10.00	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/6/2015 7:09:15AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	63.35	58 -	67	62.61	1.94E+02	100.00	1.32E+03	TH-234 TH-230
	2	76.07	68 -	80	75.34	7.23E+02	131.78	1.70E+03	.....
	3	93.27	89 -	96	92.54	1.94E+02	84.59	9.74E+02	GA-67
	4	185.65	179 -	189	184.97	8.31E+01	74.86	7.00E+02	RA-226
	5	239.35	233 -	246	238.69	4.80E+02	84.90	5.86E+02	PB-212
	6	269.61	265 -	273	268.96	7.60E+01	47.89	3.06E+02	.....
	7	295.42	289 -	300	294.78	8.89E+01	64.40	4.74E+02	PB-214
	8	338.71	333 -	344	338.09	1.01E+02	54.30	3.19E+02	AC-228
	9	351.82	347 -	356	351.21	1.72E+02	53.93	3.11E+02	PB-214
M	10	468.83	466 -	484	468.27	2.36E+01	17.74	5.29E+01	IR-192
m	11	473.56	466 -	484	473.00	3.54E+01	25.85	7.82E+01	SB-127
m	12	480.28	466 -	484	479.73	2.39E+01	27.14	7.76E+01	.....
	13	582.73	574 -	590	582.22	1.67E+02	49.53	1.70E+02	TL-208
	14	609.22	604 -	612	608.73	1.43E+02	38.05	1.35E+02	BI-214
	15	661.06	655 -	668	660.59	3.70E+01	35.75	1.24E+02	CS-137
	16	728.37	723 -	734	727.93	3.29E+01	31.50	1.06E+02	.....
	17	860.79	857 -	865	860.42	1.70E+01	20.47	5.40E+01	TL-208
	18	881.26	876 -	885	880.91	2.73E+01	18.73	3.34E+01	.....

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
19	911.35	906 -	917	911.01	5.11E+01	26.08	5.78E+01	AC-228 LU-172
20	967.27	960 -	980	966.95	5.47E+01	45.43	1.51E+02	.....
21	1094.18	1091 -	1097	1093.94	1.45E+01	13.92	2.50E+01	LU-172
22	1120.02	1116 -	1126	1119.80	2.29E+01	21.64	5.23E+01	BI-214 SC-46
23	1186.19	1174 -	1198	1186.00	3.95E+01	44.39	1.25E+02	.....
24	1239.28	1235 -	1245	1239.12	1.83E+01	22.99	6.14E+01	.....
25	1317.38	1312 -	1321	1317.27	2.19E+01	13.82	1.42E+01	.....
26	1346.98	1342 -	1352	1346.89	1.53E+01	11.85	9.30E+00	.....
27	1357.76	1354 -	1362	1357.67	1.01E+01	10.02	9.87E+00	.....
28	1377.23	1373 -	1381	1377.15	1.36E+01	11.86	1.29E+01	.....
29	1402.23	1396 -	1410	1402.17	2.58E+01	13.28	8.50E+00	.....
30	1460.29	1454 -	1466	1460.26	2.31E+02	30.40	0.00E+00	K-40
31	1704.22	1701 -	1707	1704.34	7.00E+00	9.21	1.00E+01	.....
32	1728.80	1724 -	1731	1728.94	5.50E+00	6.63	3.00E+00	.....
33	1763.31	1758 -	1769	1763.47	3.08E+01	14.83	1.25E+01	.....
34	1848.78	1845 -	1852	1849.00	8.00E+00	5.66	0.00E+00	.....
35	2024.52	2021 -	2028	2024.86	7.00E+00	5.29	0.00E+00	.....
36	2160.06	2156 -	2163	2160.49	6.94E+00	7.21	4.11E+00	.....
37	2307.14	2303 -	2312	2307.68	1.04E+01	8.77	5.15E+00	.....
38	2613.87	2610 -	2618	2614.64	2.50E+01	10.00	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/6/2015 7:09:15AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	63.35	1.94E+02	100.00	2.33E-02	1.76E-03
2	76.07	7.23E+02	131.78	2.13E-02	1.69E-03
3	93.27	1.94E+02	84.59	1.90E-02	1.62E-03
4	185.65	8.31E+01	74.86	1.16E-02	1.15E-03
5	239.35	4.80E+02	84.90	9.39E-03	9.85E-04
6	269.61	7.60E+01	47.89	8.45E-03	8.91E-04
7	295.42	8.89E+01	64.40	7.78E-03	8.43E-04
8	338.71	1.01E+02	54.30	6.85E-03	7.95E-04

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	9	351.82	1.72E+02	53.93	6.61E-03	7.80E-04
M	10	468.83	2.36E+01	17.74	5.02E-03	6.23E-04
m	11	473.56	3.54E+01	25.85	4.97E-03	6.16E-04
m	12	480.28	2.39E+01	27.14	4.90E-03	6.06E-04
	13	582.73	1.67E+02	49.53	4.05E-03	4.56E-04
	14	609.22	1.43E+02	38.05	3.88E-03	4.17E-04
	15	661.06	3.70E+01	35.75	3.58E-03	3.41E-04
	16	728.37	3.29E+01	31.50	3.25E-03	3.03E-04
	17	860.79	1.70E+01	20.47	2.76E-03	2.29E-04
	18	881.26	2.73E+01	18.73	2.70E-03	2.17E-04
	19	911.35	5.11E+01	26.08	2.61E-03	2.06E-04
	20	967.27	5.47E+01	45.43	2.46E-03	1.99E-04
	21	1094.18	1.45E+01	13.92	2.19E-03	1.83E-04
	22	1120.02	2.29E+01	21.64	2.14E-03	1.79E-04
	23	1186.19	3.95E+01	44.39	2.03E-03	1.76E-04
	24	1239.28	1.83E+01	22.99	1.95E-03	1.90E-04
	25	1317.38	2.19E+01	13.82	1.85E-03	2.12E-04
	26	1346.98	1.53E+01	11.85	1.81E-03	2.13E-04
	27	1357.76	1.01E+01	10.02	1.80E-03	2.10E-04
	28	1377.23	1.36E+01	11.86	1.77E-03	2.06E-04
	29	1402.23	2.58E+01	13.28	1.75E-03	2.01E-04
	30	1460.29	2.31E+02	30.40	1.68E-03	1.89E-04
	31	1704.22	7.00E+00	9.21	1.48E-03	1.38E-04
	32	1728.80	5.50E+00	6.63	1.46E-03	1.33E-04
	33	1763.31	3.08E+01	14.83	1.44E-03	1.26E-04
	34	1848.78	8.00E+00	5.66	1.38E-03	1.11E-04
	35	2024.52	7.00E+00	5.29	1.29E-03	1.11E-04
	36	2160.06	6.94E+00	7.21	1.22E-03	1.11E-04
	37	2307.14	1.04E+01	8.77	1.17E-03	1.11E-04
	38	2613.87	2.50E+01	10.00	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/6/2015 7:09:15AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	63.35	1.94E+02	100.00	3.87E+01	8.57E+00	1.55E+02	1.00E+02
	2	76.07	7.23E+02	131.78			7.23E+02	1.32E+02
	3	93.27	1.94E+02	84.59	5.30E+01	1.67E+01	1.41E+02	8.62E+01
	4	185.65	8.31E+01	74.86	2.05E+01	1.20E+01	6.26E+01	7.58E+01
	5	239.35	4.80E+02	84.90	4.80E+00	4.74E+00	4.75E+02	8.50E+01
	6	269.61	7.60E+01	47.89			7.60E+01	4.79E+01
	7	295.42	8.89E+01	64.40			8.89E+01	6.44E+01
	8	338.71	1.01E+02	54.30			1.01E+02	5.43E+01
	9	351.82	1.72E+02	53.93			1.72E+02	5.39E+01
M	10	468.83	2.36E+01	17.74			2.36E+01	1.77E+01
m	11	473.56	3.54E+01	25.85			3.54E+01	2.58E+01
m	12	480.28	2.39E+01	27.14			2.39E+01	2.71E+01
	13	582.73	1.67E+02	49.53			1.67E+02	4.95E+01
	14	609.22	1.43E+02	38.05			1.43E+02	3.80E+01
	15	661.06	3.70E+01	35.75			3.70E+01	3.57E+01
	16	728.37	3.29E+01	31.50			3.29E+01	3.15E+01
	17	860.79	1.70E+01	20.47			1.70E+01	2.05E+01
	18	881.26	2.73E+01	18.73			2.73E+01	1.87E+01
	19	911.35	5.11E+01	26.08			5.11E+01	2.61E+01
	20	967.27	5.47E+01	45.43			5.47E+01	4.54E+01
	21	1094.18	1.45E+01	13.92			1.45E+01	1.39E+01
	22	1120.02	2.29E+01	21.64			2.29E+01	2.16E+01
	23	1186.19	3.95E+01	44.39			3.95E+01	4.44E+01
	24	1239.28	1.83E+01	22.99			1.83E+01	2.30E+01
	25	1317.38	2.19E+01	13.82			2.19E+01	1.38E+01
	26	1346.98	1.53E+01	11.85			1.53E+01	1.19E+01
	27	1357.76	1.01E+01	10.02			1.01E+01	1.00E+01
	28	1377.23	1.36E+01	11.86			1.36E+01	1.19E+01
	29	1402.23	2.58E+01	13.28			2.58E+01	1.33E+01
	30	1460.29	2.31E+02	30.40			2.31E+02	3.04E+01
	31	1704.22	7.00E+00	9.21			7.00E+00	9.21E+00
	32	1728.80	5.50E+00	6.63			5.50E+00	6.63E+00
	33	1763.31	3.08E+01	14.83			3.08E+01	1.48E+01
	34	1848.78	8.00E+00	5.66			8.00E+00	5.66E+00
	35	2024.52	7.00E+00	5.29			7.00E+00	5.29E+00
	36	2160.06	6.94E+00	7.21			6.94E+00	7.21E+00
	37	2307.14	1.04E+01	8.77			1.04E+01	8.77E+00
	38	2613.87	2.50E+01	10.00	5.52E-01	9.86E-01	2.44E+01	1.00E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/6/2015 7:09:15AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	63.35	1.94E+02	100.00	3.87E+01	8.57E+00	1.55E+02	1.00E+02
	2	76.07	7.23E+02	131.78			7.23E+02	1.32E+02
	3	93.27	1.94E+02	84.59	5.30E+01	1.67E+01	1.41E+02	8.62E+01
	4	185.65	8.31E+01	74.86	2.05E+01	1.20E+01	6.26E+01	7.58E+01
	5	239.35	4.80E+02	84.90	4.80E+00	4.74E+00	4.75E+02	8.50E+01
	6	269.61	7.60E+01	47.89			7.60E+01	4.79E+01
	7	295.42	8.89E+01	64.40			8.89E+01	6.44E+01
	8	338.71	1.01E+02	54.30			1.01E+02	5.43E+01
	9	351.82	1.72E+02	53.93			1.72E+02	5.39E+01
M	10	468.83	2.36E+01	17.74			2.36E+01	1.77E+01
m	11	473.56	3.54E+01	25.85			3.54E+01	2.58E+01
m	12	480.28	2.39E+01	27.14			2.39E+01	2.71E+01
	13	582.73	1.67E+02	49.53			1.67E+02	4.95E+01
	14	609.22	1.43E+02	38.05			1.43E+02	3.80E+01
	15	661.06	3.70E+01	35.75			3.70E+01	3.57E+01
	16	728.37	3.29E+01	31.50			3.29E+01	3.15E+01
	17	860.79	1.70E+01	20.47			1.70E+01	2.05E+01
	18	881.26	2.73E+01	18.73			2.73E+01	1.87E+01
	19	911.35	5.11E+01	26.08			5.11E+01	2.61E+01
	20	967.27	5.47E+01	45.43			5.47E+01	4.54E+01
	21	1094.18	1.45E+01	13.92			1.45E+01	1.39E+01
	22	1120.02	2.29E+01	21.64			2.29E+01	2.16E+01
	23	1186.19	3.95E+01	44.39			3.95E+01	4.44E+01
	24	1239.28	1.83E+01	22.99			1.83E+01	2.30E+01
	25	1317.38	2.19E+01	13.82			2.19E+01	1.38E+01
	26	1346.98	1.53E+01	11.85			1.53E+01	1.19E+01
	27	1357.76	1.01E+01	10.02			1.01E+01	1.00E+01
	28	1377.23	1.36E+01	11.86			1.36E+01	1.19E+01
	29	1402.23	2.58E+01	13.28			2.58E+01	1.33E+01
	30	1460.29	2.31E+02	30.40			2.31E+02	3.04E+01
	31	1704.22	7.00E+00	9.21			7.00E+00	9.21E+00
	32	1728.80	5.50E+00	6.63			5.50E+00	6.63E+00
	33	1763.31	3.08E+01	14.83			3.08E+01	1.48E+01
	34	1848.78	8.00E+00	5.66			8.00E+00	5.66E+00
	35	2024.52	7.00E+00	5.29			7.00E+00	5.29E+00
	36	2160.06	6.94E+00	7.21			6.94E+00	7.21E+00
	37	2307.14	1.04E+01	8.77			1.04E+01	8.77E+00
	38	2613.87	2.50E+01	10.00	5.52E-01	9.86E-01	2.44E+01	1.00E+01

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.958	1460.81	*	10.67	1.86E+01	3.23E+00
GA-67	0.406	93.31	*	35.70	1.40E+02	5.58E+02
		208.95		2.24		
		300.22		16.00		
CS-137	0.945	661.65	*	85.12	1.76E-01	1.71E-01
TL-208	0.938	583.14	*	30.22	1.97E+00	6.25E-01
		860.37	*	4.48	1.99E+00	2.40E+00
		2614.66	*	35.85	9.18E-01	3.89E-01
PB-212	0.822	238.63	*	44.60	1.64E+00	3.40E-01
		300.09		3.41		
BI-214	0.714	609.31	*	46.30	1.15E+00	3.30E-01
		1120.29	*	15.10	1.02E+00	9.68E-01
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.997	295.21	*	19.19	8.60E-01	6.30E-01
		351.92	*	37.19	1.01E+00	3.38E-01
RA-226	0.951	186.21	*	3.28	2.37E+00	5.20E+00
AC-228	0.575	338.32	*	11.40	1.86E+00	1.03E+00
		911.07	*	27.70	1.02E+00	5.27E-01
		969.11		16.60		
TH-234	0.999	63.29	*	3.80	2.54E+00	1.65E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:09:15AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.07	2.00766E-01	9.12		
	6	269.61	2.11111E-02	31.50		
M	10	468.83	6.56874E-03	37.51	Tol.	IR-192
m	11	473.56	9.82783E-03	36.53	Tol.	SB-127
m	12	480.28	6.64375E-03	56.74	Sum	
	16	728.37	9.14998E-03	47.81		
	18	881.26	7.57891E-03	34.33		
	20	967.27	1.51966E-02	41.52		
	21	1094.18	4.02778E-03	48.00	Tol.	LU-172
	23	1186.19	1.09722E-02	56.19		
	24	1239.28	5.08503E-03	62.81		
	25	1317.38	6.08716E-03	31.53		
	26	1346.98	4.26389E-03	38.61		
	27	1357.76	2.79630E-03	49.79		
	28	1377.23	3.76389E-03	43.78		
	29	1402.23	7.15278E-03	25.78		
	31	1704.22	1.94444E-03	65.76		
	32	1728.80	1.52778E-03	60.30	Sum	
	33	1763.31	8.54354E-03	24.11		
	34	1848.78	2.22222E-03	35.36		
	35	2024.52	1.94444E-03	37.80		
	36	2160.06	1.92901E-03	51.92		
	37	2307.14	2.89530E-03	42.09		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.95	1460.81	*	10.67	1.86E+01	3.23E+00
GA-67	0.40	93.31	*	35.70	1.40E+02	5.58E+02
		208.95		2.24		
		300.22		16.00		
CS-137	0.94	661.65	*	85.12	1.76E-01	1.71E-01
TL-208	0.93	583.14	*	30.22	1.97E+00	6.25E-01
		860.37	*	4.48	1.99E+00	2.40E+00
		2614.66	*	35.85	9.18E-01	3.89E-01
PB-212	0.82	238.63	*	44.60	1.64E+00	3.40E-01
		300.09		3.41		
BI-214	0.71	609.31	*	46.30	1.15E+00	3.30E-01
		1120.29	*	15.10	1.02E+00	9.68E-01
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	8.60E-01	6.30E-01
		351.92	*	37.19	1.01E+00	3.38E-01
RA-226	0.95	186.21	*	3.28	2.37E+00	5.20E+00
AC-228	0.57	338.32	*	11.40	1.86E+00	1.03E+00
		911.07	*	27.70	1.02E+00	5.27E-01
		969.11		16.60		
TH-234	0.99	63.29	*	3.80	2.54E+00	1.65E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.958	1.86E+01	3.23E+00	
GA-67	0.406	1.40E+02	5.58E+02	
CS-137	0.945	1.76E-01	1.71E-01	
TL-208	0.938	1.23E+00	3.27E-01	
PB-212	0.822	1.64E+00	3.40E-01	
BI-214	0.714	1.13E+00	3.12E-01	

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
PB-214	0.997	9.74E-01	2.98E-01	
RA-226	0.951	2.37E+00	5.20E+00	
AC-228	0.575	1.19E+00	4.69E-01	
TH-234	0.999	2.54E+00	1.65E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:09:15AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.07	2.00766E-01	9.12		
	6	269.61	2.11111E-02	31.50		
M	10	468.83	6.56874E-03	37.51	Tol.	IR-192
m	11	473.56	9.82783E-03	36.53	Tol.	SB-127
m	12	480.28	6.64375E-03	56.74	Sum	
	16	728.37	9.14998E-03	47.81		
	18	881.26	7.57891E-03	34.33		
	20	967.27	1.51966E-02	41.52		
	21	1094.18	4.02778E-03	48.00	Tol.	LU-172
	23	1186.19	1.09722E-02	56.19		
	24	1239.28	5.08503E-03	62.81		
	25	1317.38	6.08716E-03	31.53		
	26	1346.98	4.26389E-03	38.61		
	27	1357.76	2.79630E-03	49.79		
	28	1377.23	3.76389E-03	43.78		
	29	1402.23	7.15278E-03	25.78		
	31	1704.22	1.94444E-03	65.76		
	32	1728.80	1.52778E-03	60.30	Sum	
	33	1763.31	8.54354E-03	24.11		
	34	1848.78	2.22222E-03	35.36		
	35	2024.52	1.94444E-03	37.80		
	36	2160.06	1.92901E-03	51.92		
	37	2307.14	2.89530E-03	42.09		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.67E+00	2.06E+00	2.06E+00
+	NA-22	1274.54		99.94	-7.13E-03	2.01E-01	2.01E-01
+	NA-24	1368.53		99.99	1.35E+12	1.22E+13	1.22E+13
		2754.09		99.86	-7.75E+11		1.25E+13
+	AL-26	1808.65		99.76	6.45E-02	1.79E-01	1.79E-01
+	K-40	1460.81	*	10.67	1.86E+01	2.17E-01	2.17E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-1.82E-01	8.89E-02	8.89E-02
		78.34		96.00	-1.55E-02		1.18E-01
+	SC-46	889.25		99.98	5.92E-03	2.05E-01	2.05E-01
		1120.51		99.99	1.08E-01		2.87E-01
+	V-48	983.52		99.98	-1.15E-01	5.79E-01	5.79E-01
		1312.10		97.50	-1.40E-01		6.44E-01
+	CR-51	320.08		9.83	4.96E-01	2.48E+00	2.48E+00
+	MN-54	834.83		99.97	9.48E-02	1.98E-01	1.98E-01
+	CO-56	846.75		99.96	-5.08E-02	2.09E-01	2.09E-01
		1037.75		14.03	-4.03E-01		1.67E+00
		1238.25		67.00	1.45E-01		4.72E-01
		1771.40		15.51	2.52E-01		1.40E+00
		2598.48		16.90	5.12E-01		1.34E+00
+	CO-57	122.06		85.51	1.34E-02	1.10E-01	1.10E-01
		136.48		10.60	-5.39E-01		9.46E-01
+	CO-58	810.76		99.40	-3.16E-02	2.19E-01	2.19E-01
+	FE-59	1099.22		56.50	1.28E-02	5.32E-01	5.32E-01
		1291.56		43.20	-1.22E-02		5.94E-01
+	CO-60	1173.22		100.00	2.37E-03	1.65E-01	2.06E-01
		1332.49		100.00	1.76E-02		1.65E-01
+	ZN-65	1115.52		50.75	-4.30E-02	4.45E-01	4.45E-01
+	GA-67	93.31	*	35.70	1.40E+02	1.38E+02	1.38E+02
		208.95		2.24	1.39E+03		2.41E+03
		300.22		16.00	-4.63E+01		3.65E+02
+	SE-75	121.11		16.70	8.09E-02	1.88E-01	6.15E-01
		136.00		59.20	-1.40E-02		1.88E-01
		264.65		59.80	3.20E-02		2.33E-01
		279.53		25.20	4.00E-02		5.29E-01
		400.65		11.40	-6.52E-01		1.26E+00
+	RB-82	776.52		13.00	-2.39E-01	2.70E+00	2.70E+00
+	RB-83	520.41		46.00	8.27E-03	3.74E-01	3.74E-01
		529.64		30.30	5.56E-02		5.43E-01
		552.65		16.40	-9.79E-01		1.05E+00
+	KR-85	513.99		0.43	3.73E+01	4.16E+01	4.16E+01
+	SR-85	513.99		99.27	2.21E-01	2.46E-01	2.46E-01

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	Y-88	898.02	93.40	2.75E-02	1.52E-01	2.24E-01
		1836.01	99.38	4.21E-03		1.52E-01
+	NB-93M	16.57	9.43	9.15E-01	4.62E-01	4.62E-01
+	NB-94	702.63	100.00	2.94E-02	1.66E-01	1.72E-01
		871.10	100.00	6.75E-02		1.66E-01
+	NB-95	765.79	99.81	5.62E-02	3.05E-01	3.05E-01
+	NB-95M	235.69	25.00	-3.43E+00	1.74E+02	1.74E+02
+	ZR-95	724.18	43.70	2.27E-02	3.75E-01	5.68E-01
		756.72	55.30	-8.07E-02		3.75E-01
+	MO-99	181.06	6.20	-3.06E+02	1.65E+03	2.44E+03
		739.58	12.80	-6.84E+02		1.65E+03
		778.00	4.50	1.08E+03		5.30E+03
+	RU-103	497.08	89.00	9.07E-02	2.66E-01	2.66E-01
+	RU-106	621.84	9.80	-3.89E-01	1.43E+00	1.43E+00
+	AG-108M	433.93	89.90	9.90E-03	1.46E-01	1.46E-01
		614.37	90.40	-5.33E-02		1.99E-01
		722.95	90.50	2.11E-02		1.97E-01
+	CD-109	88.03	3.72	8.28E-01	2.82E+00	2.82E+00
+	AG-110M	657.75	93.14	-1.13E-02	1.96E-01	1.96E-01
		677.61	10.53	7.03E-01		1.65E+00
		706.67	16.46	-2.28E-01		1.07E+00
		763.93	21.98	1.30E-01		8.39E-01
		884.67	71.63	-9.75E-03		2.58E-01
		1384.27	23.94	-1.29E-01		6.44E-01
+	CD-113M	263.70	0.02	7.51E+01	5.11E+02	5.11E+02
+	SN-113	255.12	1.93	-2.82E+00	2.28E-01	6.77E+00
		391.69	64.90	9.79E-02		2.28E-01
+	TE123M	159.00	84.10	1.71E-02	1.36E-01	1.36E-01
+	SB-124	602.71	97.87	6.94E-02	2.26E-01	2.26E-01
		645.85	7.26	-2.27E-01		2.94E+00
		722.78	11.10	1.88E-01		2.06E+00
		1691.02	49.00	-1.38E-01		2.57E-01
+	I-125	35.49	6.49	1.80E-01	1.09E+00	1.09E+00
+	SB-125	176.33	6.89	3.22E-01	4.55E-01	1.53E+00
		427.89	29.33	1.10E-01		4.55E-01
		463.38	10.35	4.07E-01		1.34E+00
		600.56	17.80	5.14E-01		9.22E-01
		635.90	11.32	2.69E-01		1.35E+00
+	SB-126	414.70	83.30	-2.88E-01	7.25E-01	7.27E-01
		666.33	99.60	-1.37E-02		7.25E-01
		695.00	99.60	1.03E-01		8.37E-01
		720.50	53.80	3.45E-01		1.38E+00
+	SN-126	87.57	37.00	7.95E-02	2.70E-01	2.70E-01
+	SB-127	473.00	25.00	4.49E+01	7.30E+01	1.05E+02
		685.20	35.70	-1.29E+01		7.30E+01
		783.80	14.70	-2.18E+00		1.85E+02
+	I-129	29.78	57.00	9.20E-03	8.80E-02	8.80E-02
		33.60	13.20	3.76E-02		3.81E-01

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	I-129	39.58		7.52	-7.07E-01	8.80E-02	6.85E-01
+	I-131	284.30		6.05	-6.34E-02	1.79E+00	2.20E+01
		364.48		81.20	1.13E-01		1.79E+00
		636.97		7.26	5.42E+00		2.49E+01
		722.89		1.80	1.00E+01		1.10E+02
+	TE-132	49.72		13.10	-2.98E+01	5.92E+01	2.23E+02
		228.16		88.00	1.02E+01		5.92E+01
+	BA-133	81.00		33.00	-9.94E-02	2.85E-01	3.18E-01
		302.84		17.80	-1.65E-01		6.81E-01
		356.01		60.00	-2.65E-02		2.85E-01
+	I-133	529.87		86.30	1.69E+08	1.66E+09	1.66E+09
+	XE-133	81.00		38.00	-3.92E+00	1.26E+01	1.26E+01
+	CS-134	563.23		8.38	-6.99E-01	1.98E-01	1.69E+00
		569.32		15.43	2.86E-01		9.19E-01
		604.70		97.60	5.95E-02		2.22E-01
		795.84		85.40	5.36E-02		1.98E-01
		801.93		8.73	-3.83E-02		2.06E+00
+	CS-135	268.24		16.00	4.29E-01	7.72E-01	7.72E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	4.01E+00	7.36E-01	6.11E+00
		163.89		4.61	-1.23E+00		9.63E+00
		176.55		13.56	7.37E-01		3.49E+00
		273.65		12.66	1.30E-01		4.48E+00
		340.57		48.50	1.29E+00		1.42E+00
		818.50		99.70	-4.58E-02		7.36E-01
		1048.07		79.60	-3.19E-02		1.10E+00
		1235.34		19.70	-4.47E-01		5.57E+00
+	CS-137	661.65	*	85.12	1.76E-01	2.76E-01	2.76E-01
+	LA-138	788.74		34.00	-1.66E-01	2.73E-01	4.10E-01
		1435.80		66.00	3.06E-02		2.73E-01
+	CE-139	165.85		80.35	5.28E-03	1.40E-01	1.40E-01
+	BA-140	162.64		6.70	-5.44E+00	2.52E+00	6.65E+00
		304.84		4.50	-2.76E+00		1.28E+01
		423.70		3.20	7.15E+00		1.95E+01
		437.55		2.00	-9.31E+00		3.07E+01
		537.32		25.00	6.64E-01		2.52E+00
+	LA-140	328.77		20.50	-6.13E-01	8.74E-01	2.75E+00
		487.03		45.50	-1.35E-01		1.17E+00
		815.85		23.50	-1.12E+00		3.14E+00
		1596.49		95.49	3.09E-01		8.74E-01
+	CE-141	145.44		48.40	6.18E-02	3.70E-01	3.70E-01
+	CE-143	57.36		11.80	3.08E+04	7.26E+05	1.26E+06
		293.26		42.00	6.83E+05		7.26E+05
		664.55		5.20	-2.89E+05		6.38E+06
+	CE-144	133.54		10.80	2.27E-01	9.36E-01	9.36E-01
+	PM-144	476.78		42.00	2.52E-01	1.52E-01	3.74E-01
		618.01		98.60	-5.20E-03		1.52E-01

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	696.49	99.49	3.86E-03	1.52E-01	1.80E-01
+	PM-145	36.85	21.70	-3.89E-02	1.29E-01	2.35E-01
		37.36	39.70	-8.67E-03		1.29E-01
		42.30	15.10	8.70E-02		3.71E-01
		72.40	2.31	6.88E+00		4.58E+00
+	PM-146	453.90	39.94	1.34E-01	3.29E-01	3.29E-01
		735.90	14.01	7.55E-02		1.04E+00
		747.13	13.10	2.02E-01		1.31E+00
+	ND-147	91.11	28.90	2.86E-01	2.26E+00	2.26E+00
		531.02	13.10	-1.94E+00		5.96E+00
+	PM-149	285.90	3.10	6.60E+03	3.06E+04	3.06E+04
+	EU-152	121.78	20.50	5.19E-02	4.26E-01	4.26E-01
		244.69	5.40	-1.36E-01		2.47E+00
		344.27	19.13	8.06E-02		6.77E-01
		778.89	9.20	3.66E-01		1.79E+00
		964.01	10.40	4.01E-01		2.35E+00
		1085.78	7.22	5.09E-01		2.60E+00
		1112.02	9.60	1.96E-01		1.94E+00
		1407.95	14.94	-3.72E-02		1.16E+00
+	GD-153	97.43	31.30	-7.88E-02	2.94E-01	2.94E-01
		103.18	22.20	8.16E-02		4.07E-01
+	EU-154	123.07	40.50	-6.78E-02	2.16E-01	2.16E-01
		723.30	19.70	9.77E-02		9.13E-01
		873.19	11.50	3.28E-01		1.40E+00
		996.32	10.30	-3.36E-01		1.63E+00
		1004.76	17.90	-6.62E-02		9.91E-01
		1274.45	35.50	-1.98E-02		5.58E-01
+	EU-155	86.50	30.90	1.15E-01	3.24E-01	3.24E-01
		105.30	20.70	-1.40E-02		4.08E-01
+	EU-156	811.77	10.40	-1.58E+00	5.77E+00	5.77E+00
		1153.47	7.20	-1.50E+00		1.13E+01
		1230.71	8.90	9.87E-01		9.45E+00
+	HO-166M	184.41	72.60	1.18E-01	1.59E-01	1.59E-01
		280.45	29.60	1.34E-01		3.85E-01
		410.94	11.10	4.57E-01		1.19E+00
		711.69	54.10	6.62E-02		2.80E-01
+	TM-171	66.72	0.14	1.17E+00	6.28E+01	6.28E+01
+	HF-172	81.75	4.52	-9.72E-01	8.18E-01	2.20E+00
		125.81	11.30	-3.49E-02		8.18E-01
+	LU-172	181.53	20.60	7.08E-01	6.17E+00	1.07E+01
		810.06	16.63	-2.83E+00		1.96E+01
		912.12	15.25	3.39E+01		3.05E+01
		1093.66	62.50	-1.16E-01		6.17E+00
+	LU-173	100.72	5.24	2.12E-01	6.18E-01	1.60E+00
		272.11	21.20	-1.19E-01		6.18E-01
+	HF-175	343.40	84.00	2.43E-02	2.16E-01	2.16E-01
+	LU-176	88.34	13.30	2.12E-01	1.27E-01	7.79E-01
		201.83	86.00	-5.12E-02		1.27E-01
		306.78	94.00	1.72E-02		1.28E-01

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TA-182	67.75		41.20	-4.95E-01	2.42E-01	2.42E-01
		1121.30		34.90	3.72E-01		8.04E-01
		1189.05		16.23	-1.35E+00		1.49E+00
		1221.41		26.98	1.26E-01		9.61E-01
		1231.02		11.44	2.45E-01		2.34E+00
+	IR-192	308.46		29.68	9.68E-02	3.43E-01	5.31E-01
		468.07		48.10	-8.27E-02		3.43E-01
+	HG-203	279.19		77.30	1.69E-02	2.24E-01	2.24E-01
+	BI-207	569.67		97.72	4.40E-02	1.42E-01	1.42E-01
		1063.62		74.90	2.44E-02		2.52E-01
+	TL-208	583.14	*	30.22	1.97E+00	2.12E-01	8.52E-01
		860.37	*	4.48	1.99E+00		3.92E+00
		2614.66	*	35.85	9.18E-01		2.12E-01
+	BI-210M	262.00		45.00	-3.21E-02	2.55E-01	2.55E-01
		300.00		23.00	-4.70E-02		6.06E-01
+	PB-210	46.50		4.25	3.16E-01	1.40E+00	1.40E+00
+	PB-211	404.84		2.90	1.94E+00	4.64E+00	4.64E+00
		831.96		2.90	5.45E+00		6.60E+00
+	BI-212	727.17		11.80	1.12E+00	1.60E+00	1.60E+00
		1620.62		2.75	1.70E+00		6.18E+00
+	PB-212	238.63	*	44.60	1.64E+00	4.23E-01	4.23E-01
		300.09		3.41	-3.17E-01		4.09E+00
+	BI-214	609.31	*	46.30	1.15E+00	4.14E-01	4.14E-01
		1120.29	*	15.10	1.02E+00		1.54E+00
		1764.49		15.80	2.33E+00		2.00E+00
		2204.22		4.98	2.16E+00		4.00E+00
+	PB-214	295.21	*	19.19	8.60E-01	4.71E-01	1.01E+00
		351.92	*	37.19	1.01E+00		4.71E-01
+	RN-219	401.80		6.50	9.65E-02	1.96E+00	1.96E+00
+	RA-223	323.87		3.88	1.45E+00	3.17E+00	3.17E+00
+	RA-224	240.98		3.95	1.75E+01	4.75E+00	4.75E+00
+	RA-225	40.00		31.00	-6.66E-01	6.45E-01	6.45E-01
+	RA-226	186.21	*	3.28	2.37E+00	4.72E+00	4.72E+00
+	TH-227	50.10		8.40	-9.96E-02	7.44E-01	7.44E-01
		236.00		11.50	-2.90E-02		1.48E+00
		256.20		6.30	-2.86E-02		1.81E+00
+	AC-228	338.32	*	11.40	1.86E+00	7.70E-01	1.58E+00
		911.07	*	27.70	1.02E+00		7.70E-01
		969.11		16.60	1.20E+00		1.52E+00
+	TH-230	48.44		16.90	3.60E-02	3.63E-01	3.63E-01
		62.85		4.60	2.33E+00		1.80E+00
		67.67		0.37	-4.62E+01		2.26E+01
+	PA-231	283.67		1.60	-3.98E+00	5.24E+00	6.73E+00
		302.67		2.30	-1.27E+00		5.24E+00
+	TH-231	25.64		14.70	-1.24E-01	3.43E-01	3.43E-01
		84.21		6.40	-4.55E-01		1.44E+00
+	PA-233	311.98		38.60	2.56E-01	6.55E-01	6.55E-01
+	PA-234	131.20		20.40	2.45E-01	4.60E-01	4.60E-01

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	733.99		8.80	1.87E-01	4.60E-01	1.73E+00
		946.00		12.00	2.94E-01		1.52E+00
+	PA-234M	1001.03		0.92	8.28E+00	2.01E+01	2.01E+01
+	TH-234	63.29	*	3.80	2.54E+00	2.66E+00	2.66E+00
+	U-235	143.76		10.50	1.52E-01	9.15E-01	9.15E-01
		163.35		4.70	-2.62E-01		2.06E+00
		205.31		4.70	8.66E-01		2.45E+00
+	NP-237	86.50		12.60	2.80E-01	7.85E-01	7.85E-01
+	NP-239	106.10		22.70	-6.28E+01	1.83E+03	1.83E+03
		228.18		10.70	-1.44E+03		5.04E+03
		277.60		14.10	7.20E+02		3.97E+03
+	AM-241	59.54		35.90	-1.33E-02	2.13E-01	2.13E-01
+	AM-243	74.67		66.00	6.51E-01	1.72E-01	1.72E-01
+	CM-243	209.75		3.29	3.31E+00	8.09E-01	3.60E+00
		228.14		10.60	1.81E-01		1.05E+00
		277.60		14.00	1.47E-01		8.09E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	2.06E+00	2.06E+00	1.67E+00	9.75E-01
	NA-22	1274.54		99.94	2.01E-01	2.01E-01	-7.13E-03	9.02E-02
	NA-24	1368.53		99.99	1.22E+13	1.22E+13	1.35E+12	5.21E+12
		2754.09		99.86	1.25E+13		-7.75E+11	4.69E+12
	AL-26	1808.65		99.76	1.79E-01	1.79E-01	6.45E-02	7.57E-02
+	K-40	1460.81	*	10.67	2.17E-01	2.17E-01	1.86E+01	0.00E+00

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	8.89E-02	8.89E-02	-1.82E-01	4.35E-02
		78.34		96.00	1.18E-01		-1.55E-02	5.78E-02
	SC-46	889.25		99.98	2.05E-01	2.05E-01	5.92E-03	9.30E-02
		1120.51		99.99	2.87E-01		1.08E-01	1.32E-01
	V-48	983.52		99.98	5.79E-01	5.79E-01	-1.15E-01	2.61E-01
		1312.10		97.50	6.44E-01		-1.40E-01	2.84E-01
	CR-51	320.08		9.83	2.48E+00	2.48E+00	4.96E-01	1.19E+00
	MN-54	834.83		99.97	1.98E-01	1.98E-01	9.48E-02	9.17E-02
	CO-56	846.75		99.96	2.09E-01	2.09E-01	-5.08E-02	9.53E-02
		1037.75		14.03	1.67E+00		-4.03E-01	7.58E-01
		1238.25		67.00	4.72E-01		1.45E-01	2.17E-01
		1771.40		15.51	1.40E+00		2.52E-01	5.86E-01
		2598.48		16.90	1.34E+00		5.12E-01	5.32E-01
	CO-57	122.06		85.51	1.10E-01	1.10E-01	1.34E-02	5.34E-02
		136.48		10.60	9.46E-01		-5.39E-01	4.59E-01
	CO-58	810.76		99.40	2.19E-01	2.19E-01	-3.16E-02	1.01E-01
	FE-59	1099.22		56.50	5.32E-01	5.32E-01	1.28E-02	2.41E-01
		1291.56		43.20	5.94E-01		-1.22E-02	2.59E-01
	CO-60	1173.22		100.00	2.06E-01	1.65E-01	2.37E-03	9.35E-02
		1332.49		100.00	1.65E-01		1.76E-02	7.19E-02
	ZN-65	1115.52		50.75	4.45E-01	4.45E-01	-4.30E-02	2.03E-01
+	GA-67	93.31	*	35.70	1.38E+02	1.38E+02	1.40E+02	6.77E+01
		208.95		2.24	2.41E+03		1.39E+03	1.16E+03
		300.22		16.00	3.65E+02		-4.63E+01	1.75E+02
	SE-75	121.11		16.70	6.15E-01	1.88E-01	8.09E-02	2.99E-01
		136.00		59.20	1.88E-01		-1.40E-02	9.13E-02
		264.65		59.80	2.33E-01		3.20E-02	1.12E-01
		279.53		25.20	5.29E-01		4.00E-02	2.53E-01
		400.65		11.40	1.26E+00		-6.52E-01	5.93E-01
	RB-82	776.52		13.00	2.70E+00	2.70E+00	-2.39E-01	1.24E+00
	RB-83	520.41		46.00	3.74E-01	3.74E-01	8.27E-03	1.75E-01
		529.64		30.30	5.43E-01		5.56E-02	2.53E-01
		552.65		16.40	1.05E+00		-9.79E-01	4.92E-01
	KR-85	513.99		0.43	4.16E+01	4.16E+01	3.73E+01	1.98E+01
	SR-85	513.99		99.27	2.46E-01	2.46E-01	2.21E-01	1.17E-01
	Y-88	898.02		93.40	2.24E-01	1.52E-01	2.75E-02	1.02E-01
		1836.01		99.38	1.52E-01		4.21E-03	5.87E-02
	NB-93M	16.57		9.43	4.62E-01	4.62E-01	9.15E-01	2.24E-01
	NB-94	702.63		100.00	1.72E-01	1.66E-01	2.94E-02	8.04E-02
		871.10		100.00	1.66E-01		6.75E-02	7.59E-02
	NB-95	765.79		99.81	3.05E-01	3.05E-01	5.62E-02	1.42E-01
	NB-95M	235.69		25.00	1.74E+02	1.74E+02	-3.43E+00	8.51E+01
	ZR-95	724.18		43.70	5.68E-01	3.75E-01	2.27E-02	2.65E-01
		756.72		55.30	3.75E-01		-8.07E-02	1.72E-01
	MO-99	181.06		6.20	2.44E+03	1.65E+03	-3.06E+02	1.18E+03
		739.58		12.80	1.65E+03		-6.84E+02	7.54E+02
		778.00		4.50	5.30E+03		1.08E+03	2.44E+03
	RU-103	497.08		89.00	2.66E-01	2.66E-01	9.07E-02	1.25E-01
	RU-106	621.84		9.80	1.43E+00	1.43E+00	-3.89E-01	6.60E-01
	AG-108M	433.93		89.90	1.46E-01	1.46E-01	9.90E-03	6.88E-02
		614.37		90.40	1.99E-01		-5.33E-02	9.37E-02
		722.95		90.50	1.97E-01		2.11E-02	9.21E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CD-109	88.03	3.72	2.82E+00	2.82E+00	8.28E-01	1.38E+00
AG-110M	657.75	93.14	1.96E-01	1.96E-01	-1.13E-02	9.16E-02
	677.61	10.53	1.65E+00		7.03E-01	7.67E-01
	706.67	16.46	1.07E+00		-2.28E-01	4.94E-01
	763.93	21.98	8.39E-01		1.30E-01	3.89E-01
	884.67	71.63	2.58E-01		-9.75E-03	1.18E-01
	1384.27	23.94	6.44E-01		-1.29E-01	2.72E-01
CD-113M	263.70	0.02	5.11E+02	5.11E+02	7.51E+01	2.46E+02
SN-113	255.12	1.93	6.77E+00	2.28E-01	-2.82E+00	3.25E+00
	391.69	64.90	2.28E-01		9.79E-02	1.08E-01
TE123M	159.00	84.10	1.36E-01	1.36E-01	1.71E-02	6.61E-02
SB-124	602.71	97.87	2.26E-01	2.26E-01	6.94E-02	1.06E-01
	645.85	7.26	2.94E+00		-2.27E-01	1.37E+00
	722.78	11.10	2.06E+00		1.88E-01	9.56E-01
	1691.02	49.00	2.57E-01		-1.38E-01	9.10E-02
I-125	35.49	6.49	1.09E+00	1.09E+00	1.80E-01	5.32E-01
SB-125	176.33	6.89	1.53E+00	4.55E-01	3.22E-01	7.40E-01
	427.89	29.33	4.55E-01		1.10E-01	2.15E-01
	463.38	10.35	1.34E+00		4.07E-01	6.32E-01
	600.56	17.80	9.22E-01		5.14E-01	4.32E-01
	635.90	11.32	1.35E+00		2.69E-01	6.26E-01
SB-126	414.70	83.30	7.27E-01	7.25E-01	-2.88E-01	3.42E-01
	666.33	99.60	7.25E-01		-1.37E-02	3.35E-01
	695.00	99.60	8.37E-01		1.03E-01	3.89E-01
	720.50	53.80	1.38E+00		3.45E-01	6.34E-01
SN-126	87.57	37.00	2.70E-01	2.70E-01	7.95E-02	1.33E-01
SB-127	473.00	25.00	1.05E+02	7.30E+01	4.49E+01	4.99E+01
	685.20	35.70	7.30E+01		-1.29E+01	3.36E+01
	783.80	14.70	1.85E+02		-2.18E+00	8.47E+01
I-129	29.78	57.00	8.80E-02	8.80E-02	9.20E-03	4.28E-02
	33.60	13.20	3.81E-01		3.76E-02	1.85E-01
	39.58	7.52	6.85E-01		-7.07E-01	3.33E-01
I-131	284.30	6.05	2.20E+01	1.79E+00	-6.34E-02	1.05E+01
	364.48	81.20	1.79E+00		1.13E-01	8.49E-01
	636.97	7.26	2.49E+01		5.42E+00	1.16E+01
	722.89	1.80	1.10E+02		1.00E+01	5.11E+01
TE-132	49.72	13.10	2.23E+02	5.92E+01	-2.98E+01	1.09E+02
	228.16	88.00	5.92E+01		1.02E+01	2.86E+01
BA-133	81.00	33.00	3.18E-01	2.85E-01	-9.94E-02	1.56E-01
	302.84	17.80	6.81E-01		-1.65E-01	3.26E-01
	356.01	60.00	2.85E-01		-2.65E-02	1.38E-01
I-133	529.87	86.30	1.66E+09	1.66E+09	1.69E+08	7.72E+08
XE-133	81.00	38.00	1.26E+01	1.26E+01	-3.92E+00	6.17E+00
CS-134	563.23	8.38	1.69E+00	1.98E-01	-6.99E-01	7.86E-01
	569.32	15.43	9.19E-01		2.86E-01	4.28E-01
	604.70	97.60	2.22E-01		5.95E-02	1.06E-01
	795.84	85.40	1.98E-01		5.36E-02	9.09E-02
	801.93	8.73	2.06E+00		-3.83E-02	9.54E-01
CS-135	268.24	16.00	7.72E-01	7.72E-01	4.29E-01	3.72E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	6.11E+00	7.36E-01	4.01E+00	2.97E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	163.89		4.61	9.63E+00	7.36E-01	-1.23E+00	4.66E+00
		176.55		13.56	3.49E+00		7.37E-01	1.69E+00
		273.65		12.66	4.48E+00		1.30E-01	2.16E+00
		340.57		48.50	1.42E+00		1.29E+00	6.84E-01
		818.50		99.70	7.36E-01		-4.58E-02	3.37E-01
		1048.07		79.60	1.10E+00		-3.19E-02	5.01E-01
		1235.34		19.70	5.57E+00		-4.47E-01	2.56E+00
+	CS-137	661.65	*	85.12	2.76E-01	2.76E-01	1.76E-01	1.31E-01
	LA-138	788.74		34.00	4.10E-01	2.73E-01	-1.66E-01	1.86E-01
		1435.80		66.00	2.73E-01		3.06E-02	1.19E-01
	CE-139	165.85		80.35	1.40E-01	1.40E-01	5.28E-03	6.78E-02
	BA-140	162.64		6.70	6.65E+00	2.52E+00	-5.44E+00	3.22E+00
		304.84		4.50	1.28E+01		-2.76E+00	6.15E+00
		423.70		3.20	1.95E+01		7.15E+00	9.22E+00
		437.55		2.00	3.07E+01		-9.31E+00	1.45E+01
		537.32		25.00	2.52E+00		6.64E-01	1.17E+00
	LA-140	328.77		20.50	2.75E+00	8.74E-01	-6.13E-01	1.31E+00
		487.03		45.50	1.17E+00		-1.35E-01	5.43E-01
		815.85		23.50	3.14E+00		-1.12E+00	1.43E+00
		1596.49		95.49	8.74E-01		3.09E-01	3.74E-01
	CE-141	145.44		48.40	3.70E-01	3.70E-01	6.18E-02	1.80E-01
	CE-143	57.36		11.80	1.26E+06	7.26E+05	3.08E+04	6.16E+05
		293.26		42.00	7.26E+05		6.83E+05	3.50E+05
		664.55		5.20	6.38E+06		-2.89E+05	2.97E+06
	CE-144	133.54		10.80	9.36E-01	9.36E-01	2.27E-01	4.55E-01
	PM-144	476.78		42.00	3.74E-01	1.52E-01	2.52E-01	1.77E-01
		618.01		98.60	1.52E-01		-5.20E-03	7.05E-02
		696.49		99.49	1.80E-01		3.86E-03	8.40E-02
	PM-145	36.85		21.70	2.35E-01	1.29E-01	-3.89E-02	1.14E-01
		37.36		39.70	1.29E-01		-8.67E-03	6.28E-02
		42.30		15.10	3.71E-01		8.70E-02	1.81E-01
		72.40		2.31	4.58E+00		6.88E+00	2.25E+00
	PM-146	453.90		39.94	3.29E-01	3.29E-01	1.34E-01	1.55E-01
		735.90		14.01	1.04E+00		7.55E-02	4.76E-01
		747.13		13.10	1.31E+00		2.02E-01	6.06E-01
	ND-147	91.11		28.90	2.26E+00	2.26E+00	2.86E-01	1.11E+00
		531.02		13.10	5.96E+00		-1.94E+00	2.77E+00
	PM-149	285.90		3.10	3.06E+04	3.06E+04	6.60E+03	1.46E+04
	EU-152	121.78		20.50	4.26E-01	4.26E-01	5.19E-02	2.07E-01
		244.69		5.40	2.47E+00		-1.36E-01	1.20E+00
		344.27		19.13	6.77E-01		8.06E-02	3.23E-01
		778.89		9.20	1.79E+00		3.66E-01	8.26E-01
		964.01		10.40	2.35E+00		4.01E-01	1.10E+00
		1085.78		7.22	2.60E+00		5.09E-01	1.18E+00
		1112.02		9.60	1.94E+00		1.96E-01	8.76E-01
		1407.95		14.94	1.16E+00		-3.72E-02	5.02E-01
	GD-153	97.43		31.30	2.94E-01	2.94E-01	-7.88E-02	1.43E-01
		103.18		22.20	4.07E-01		8.16E-02	1.98E-01
	EU-154	123.07		40.50	2.16E-01	2.16E-01	-6.78E-02	1.05E-01
		723.30		19.70	9.13E-01		9.77E-02	4.26E-01
		873.19		11.50	1.40E+00		3.28E-01	6.39E-01
		996.32		10.30	1.63E+00		-3.36E-01	7.37E-01
		1004.76		17.90	9.91E-01		-6.62E-02	4.49E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	5.58E-01	2.16E-01	-1.98E-02	2.50E-01
	EU-155	86.50		30.90	3.24E-01	3.24E-01	1.15E-01	1.59E-01
		105.30		20.70	4.08E-01		-1.40E-02	1.98E-01
	EU-156	811.77		10.40	5.77E+00	5.77E+00	-1.58E+00	2.65E+00
		1153.47		7.20	1.13E+01		-1.50E+00	5.15E+00
		1230.71		8.90	9.45E+00		9.87E-01	4.31E+00
	HO-166M	184.41		72.60	1.59E-01	1.59E-01	1.18E-01	7.74E-02
		280.45		29.60	3.85E-01		1.34E-01	1.85E-01
		410.94		11.10	1.19E+00		4.57E-01	5.62E-01
		711.69		54.10	2.80E-01		6.62E-02	1.29E-01
	TM-171	66.72		0.14	6.28E+01	6.28E+01	1.17E+00	3.08E+01
	HF-172	81.75		4.52	2.20E+00	8.18E-01	-9.72E-01	1.08E+00
		125.81		11.30	8.18E-01		-3.49E-02	3.98E-01
	LU-172	181.53		20.60	1.07E+01	6.17E+00	7.08E-01	5.21E+00
		810.06		16.63	1.96E+01		-2.83E+00	9.00E+00
		912.12		15.25	3.05E+01		3.39E+01	1.42E+01
		1093.66		62.50	6.17E+00		-1.16E-01	2.80E+00
	LU-173	100.72		5.24	1.60E+00	6.18E-01	2.12E-01	7.78E-01
		272.11		21.20	6.18E-01		-1.19E-01	2.98E-01
	HF-175	343.40		84.00	2.16E-01	2.16E-01	2.43E-02	1.03E-01
	LU-176	88.34		13.30	7.79E-01	1.27E-01	2.12E-01	3.82E-01
		201.83		86.00	1.27E-01		-5.12E-02	6.13E-02
		306.78		94.00	1.28E-01		1.72E-02	6.14E-02
	TA-182	67.75		41.20	2.42E-01	2.42E-01	-4.95E-01	1.19E-01
		1121.30		34.90	8.04E-01		3.72E-01	3.71E-01
		1189.05		16.23	1.49E+00		-1.35E+00	6.77E-01
		1221.41		26.98	9.61E-01		1.26E-01	4.37E-01
		1231.02		11.44	2.34E+00		2.45E-01	1.07E+00
	IR-192	308.46		29.68	5.31E-01	3.43E-01	9.68E-02	2.54E-01
		468.07		48.10	3.43E-01		-8.27E-02	1.61E-01
	HG-203	279.19		77.30	2.24E-01	2.24E-01	1.69E-02	1.07E-01
	BI-207	569.67		97.72	1.42E-01	1.42E-01	4.40E-02	6.60E-02
		1063.62		74.90	2.52E-01		2.44E-02	1.15E-01
+	TL-208	583.14	*	30.22	8.52E-01	2.12E-01	1.97E+00	4.10E-01
		860.37	*	4.48	3.92E+00		1.99E+00	1.80E+00
		2614.66	*	35.85	2.12E-01		9.18E-01	5.51E-02
	BI-210M	262.00		45.00	2.55E-01	2.55E-01	-3.21E-02	1.22E-01
		300.00		23.00	6.06E-01		-4.70E-02	2.92E-01
	PB-210	46.50		4.25	1.40E+00	1.40E+00	3.16E-01	6.81E-01
	PB-211	404.84		2.90	4.64E+00	4.64E+00	1.94E+00	2.20E+00
		831.96		2.90	6.60E+00		5.45E+00	3.07E+00
	BI-212	727.17		11.80	1.60E+00	1.60E+00	1.12E+00	7.47E-01
		1620.62		2.75	6.18E+00		1.70E+00	2.63E+00
+	PB-212	238.63	*	44.60	4.23E-01	4.23E-01	1.64E+00	2.07E-01
		300.09		3.41	4.09E+00		-3.17E-01	1.97E+00
+	BI-214	609.31	*	46.30	4.14E-01	4.14E-01	1.15E+00	1.96E-01
		1120.29	*	15.10	1.54E+00		1.02E+00	7.12E-01
		1764.49		15.80	2.00E+00		2.33E+00	9.13E-01
		2204.22		4.98	4.00E+00		2.16E+00	1.68E+00
+	PB-214	295.21	*	19.19	1.01E+00	4.71E-01	8.60E-01	4.90E-01
		351.92	*	37.19	4.71E-01		1.01E+00	2.28E-01
	RN-219	401.80		6.50	1.96E+00	1.96E+00	9.65E-02	9.26E-01
	RA-223	323.87		3.88	3.17E+00	3.17E+00	1.45E+00	1.51E+00

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RA-224	240.98		3.95	4.75E+00	4.75E+00	1.75E+01	2.32E+00
	RA-225	40.00		31.00	6.45E-01	6.45E-01	-6.66E-01	3.14E-01
+	RA-226	186.21	*	3.28	4.72E+00	4.72E+00	2.37E+00	2.31E+00
	TH-227	50.10		8.40	7.44E-01	7.44E-01	-9.96E-02	3.63E-01
		236.00		11.50	1.48E+00		-2.90E-02	7.20E-01
		256.20		6.30	1.81E+00		-2.86E-02	8.69E-01
+	AC-228	338.32	*	11.40	1.58E+00	7.70E-01	1.86E+00	7.67E-01
		911.07	*	27.70	7.70E-01		1.02E+00	3.58E-01
		969.11		16.60	1.52E+00		1.20E+00	7.12E-01
	TH-230	48.44		16.90	3.63E-01	3.63E-01	3.60E-02	1.77E-01
		62.85		4.60	1.80E+00		2.33E+00	8.80E-01
		67.67		0.37	2.26E+01		-4.62E+01	1.11E+01
	PA-231	283.67		1.60	6.73E+00	5.24E+00	-3.98E+00	3.22E+00
		302.67		2.30	5.24E+00		-1.27E+00	2.51E+00
	TH-231	25.64		14.70	3.43E-01	3.43E-01	-1.24E-01	1.67E-01
		84.21		6.40	1.44E+00		-4.55E-01	7.06E-01
	PA-233	311.98		38.60	6.55E-01	6.55E-01	2.56E-01	3.13E-01
	PA-234	131.20		20.40	4.60E-01	4.60E-01	2.45E-01	2.24E-01
		733.99		8.80	1.73E+00		1.87E-01	7.94E-01
		946.00		12.00	1.52E+00		2.94E-01	6.94E-01
	PA-234M	1001.03		0.92	2.01E+01	2.01E+01	8.28E+00	9.18E+00
+	TH-234	63.29	*	3.80	2.66E+00	2.66E+00	2.54E+00	1.31E+00
	U-235	143.76		10.50	9.15E-01	9.15E-01	1.52E-01	4.44E-01
		163.35		4.70	2.06E+00		-2.62E-01	9.95E-01
		205.31		4.70	2.45E+00		8.66E-01	1.18E+00
	NP-237	86.50		12.60	7.85E-01	7.85E-01	2.80E-01	3.85E-01
	NP-239	106.10		22.70	1.83E+03	1.83E+03	-6.28E+01	8.90E+02
		228.18		10.70	5.04E+03		-1.44E+03	2.43E+03
		277.60		14.10	3.97E+03		7.20E+02	1.90E+03
	AM-241	59.54		35.90	2.13E-01	2.13E-01	-1.33E-02	1.04E-01
	AM-243	74.67		66.00	1.72E-01	1.72E-01	6.51E-01	8.46E-02
	CM-243	209.75		3.29	3.60E+00	8.09E-01	3.31E+00	1.74E+00
		228.14		10.60	1.05E+00		1.81E-01	5.07E-01
		277.60		14.00	8.09E-01		1.47E-01	3.87E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1507092-03

FEEBRIS1D-19 061-063

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-19 061-063

Elapsed Live time: 3600
Elapsed Real Time: 3607

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	17	83
17:	55	70	82	58	62	56	54	52
25:	58	51	53	43	55	40	53	54
33:	51	51	46	42	47	47	48	45
41:	54	44	52	49	65	78	62	46
49:	61	54	67	53	55	78	61	76
57:	54	65	52	88	81	122	112	98
65:	90	84	64	80	76	74	80	91
73:	124	162	208	240	192	102	84	61
81:	57	87	73	91	85	103	91	97
89:	107	84	94	126	108	61	69	32
97:	41	60	54	46	45	61	54	52
105:	42	48	50	46	55	46	54	46
113:	45	48	53	39	50	37	46	43
121:	43	54	46	49	37	41	41	42
129:	59	51	49	49	46	46	42	34
137:	41	50	48	38	49	39	54	41
145:	42	36	42	39	46	39	43	33
153:	45	42	46	43	42	26	39	32
161:	34	35	42	27	32	33	48	34
169:	34	43	35	34	34	43	51	24
177:	34	41	28	37	33	32	42	46
185:	69	56	34	34	22	37	47	34
193:	32	41	28	35	41	34	26	37
201:	32	31	35	22	33	39	34	38
209:	51	35	31	27	33	20	25	30
217:	29	27	29	29	24	29	36	26
225:	30	24	30	27	23	23	26	25
233:	18	31	33	41	107	147	122	62
241:	55	59	37	20	19	22	19	19
249:	23	19	23	18	18	23	26	29
257:	15	23	25	31	29	24	21	13
265:	21	13	32	27	37	36	22	25
273:	16	18	16	22	27	26	16	17
281:	18	19	12	19	16	19	17	23
289:	16	14	10	27	26	50	64	34
297:	19	21	21	24	16	15	21	17
305:	23	13	17	23	16	22	16	17
313:	13	17	20	15	13	12	14	15
321:	25	16	18	17	15	12	24	18
329:	14	13	12	13	13	19	12	22
337:	44	31	36	14	28	17	13	11
345:	16	25	13	16	26	56	84	62
353:	29	12	13	16	10	14	16	16
361:	19	16	14	6	8	14	13	12

369:	9	17	11	11	18	7	12	11

Sample Title: FEEBRIS1D-19 061-063

Channel								
377:	9	12	12	17	15	8	8	12
385:	12	11	7	8	17	14	9	11
393:	18	13	13	8	8	8	9	12
401:	19	13	7	15	18	10	11	16
409:	16	8	15	12	8	16	6	9
417:	8	9	10	10	12	12	17	12
425:	9	10	11	7	10	13	13	14
433:	5	8	10	13	13	15	7	13
441:	9	10	9	13	6	7	6	7
449:	9	10	8	13	8	11	12	12
457:	6	8	11	7	14	20	14	5
465:	7	4	12	12	9	12	5	12
473:	17	13	9	14	7	11	13	11
481:	10	7	6	3	5	5	5	13
489:	7	4	8	9	9	11	11	11
497:	10	9	5	13	10	6	9	12
505:	8	8	6	15	21	28	28	19
513:	11	8	7	7	7	8	10	10
521:	7	11	6	8	9	7	7	8
529:	7	10	7	4	6	4	7	6
537:	12	9	5	8	7	6	3	6
545:	8	10	9	3	9	7	15	3
553:	5	6	11	7	10	13	18	3
561:	7	9	2	7	7	4	7	8
569:	10	7	10	4	6	4	4	8
577:	9	13	9	15	30	47	43	24
585:	6	9	7	8	11	5	5	4
593:	3	9	4	14	4	8	6	13
601:	9	6	13	5	12	3	21	55
609:	63	34	14	3	9	7	7	8
617:	8	4	4	3	7	8	4	6
625:	4	5	5	7	3	5	5	10
633:	5	5	4	6	8	6	10	5
641:	5	9	6	5	5	12	11	5
649:	2	5	7	9	8	3	7	6
657:	7	8	12	9	11	4	7	7
665:	5	6	4	6	2	8	6	2
673:	8	4	4	3	9	6	8	10
681:	8	4	7	2	8	5	5	3
689:	4	6	4	3	8	8	4	7
697:	9	5	13	7	8	10	10	3
705:	7	2	6	7	6	5	11	3
713:	3	5	2	6	5	3	7	5
721:	5	6	5	2	7	15	14	9
729:	10	8	3	8	4	1	6	3
737:	6	6	3	5	5	3	3	9
745:	7	5	8	9	6	2	6	5
753:	5	9	4	2	4	4	4	5
761:	5	6	7	6	6	4	8	6
769:	6	5	8	5	5	5	8	6
777:	8	1	3	4	8	4	2	3
785:	5	4	5	1	4	6	1	3
793:	4	4	7	7	9	4	6	4

801:	6	3	4	2	14	8	4	2

Sample Title: FEEBRIS1D-19 061-063

Channel								
809:	5	6	4	6	5	3	6	4
817:	3	3	3	4	6	8	3	8
825:	2	3	2	7	4	6	8	6
833:	3	9	4	10	3	4	3	2
841:	6	3	7	4	6	6	1	5
849:	4	2	5	5	8	3	4	3
857:	3	3	7	12	6	3	6	3
865:	1	5	2	6	5	8	2	5
873:	4	2	4	1	4	3	7	6
881:	9	4	7	3	0	2	4	4
889:	3	6	3	4	8	6	4	5
897:	1	3	6	4	5	5	6	1
905:	2	4	3	4	6	16	18	13
913:	7	2	3	3	1	3	4	1
921:	1	7	4	3	3	4	1	4
929:	4	3	2	9	3	3	2	2
937:	2	3	4	4	5	4	4	4
945:	3	4	4	3	8	5	3	2
953:	4	9	4	4	4	7	4	2
961:	7	6	7	7	12	5	9	15
969:	14	7	7	2	4	4	2	4
977:	5	5	3	3	5	3	3	4
985:	2	2	4	6	5	2	2	4
993:	1	2	2	6	3	4	3	4
1001:	8	3	3	5	3	1	5	0
1009:	2	2	8	3	4	2	3	6
1017:	2	4	4	2	0	2	3	6
1025:	5	2	2	2	5	5	4	4
1033:	4	5	5	5	4	4	0	2
1041:	3	4	4	5	2	2	4	2
1049:	3	5	3	9	5	3	5	4
1057:	5	2	2	3	3	5	2	4
1065:	2	4	8	3	3	3	5	4
1073:	2	6	2	2	6	0	3	1
1081:	2	6	4	4	2	2	5	2
1089:	4	2	1	4	5	7	5	4
1097:	1	3	4	8	3	3	1	5
1105:	4	2	1	5	4	3	1	5
1113:	1	7	3	0	8	4	8	7
1121:	7	1	3	6	4	1	5	5
1129:	1	8	3	3	3	1	2	1
1137:	2	4	6	4	1	2	6	3
1145:	2	4	3	6	5	3	3	2
1153:	8	4	3	4	6	6	3	6
1161:	7	2	5	4	4	3	3	4
1169:	5	2	3	4	3	2	6	2
1177:	5	1	2	6	4	9	6	6
1185:	5	1	2	4	4	3	4	2
1193:	6	3	8	6	3	2	3	5
1201:	3	6	5	1	6	2	4	4
1209:	5	1	3	5	1	5	2	2
1217:	3	4	3	3	3	2	8	4
1225:	4	3	1	7	4	6	4	2

1233:	7	3	2	4	6	5	8	8

Sample Title: FEEBRIS1D-19 061-063

Channel								
1241:	4	3	5	2	2	4	2	2
1249:	5	5	3	3	3	4	4	1
1257:	2	1	2	3	2	4	3	4
1265:	2	3	1	1	1	5	0	6
1273:	3	3	3	1	2	2	3	7
1281:	2	2	4	2	3	1	3	0
1289:	2	1	1	3	2	1	3	3
1297:	1	1	3	2	2	4	5	1
1305:	3	4	5	0	3	3	0	3
1313:	1	2	0	7	5	2	5	4
1321:	0	0	3	1	0	3	3	1
1329:	1	5	2	1	0	0	4	1
1337:	2	1	0	1	2	0	3	4
1345:	0	3	1	2	4	2	1	0
1353:	0	0	2	1	2	2	6	1
1361:	1	0	2	3	0	1	0	4
1369:	0	1	1	1	1	2	0	5
1377:	5	3	2	2	0	1	0	0
1385:	1	4	1	1	1	2	3	3
1393:	2	2	0	0	3	2	2	6
1401:	1	2	1	3	1	3	2	3
1409:	1	0	1	1	0	2	2	1
1417:	1	1	0	0	2	2	1	3
1425:	0	1	0	2	3	2	0	1
1433:	0	0	4	2	2	4	1	2
1441:	1	2	1	0	2	0	2	1
1449:	1	4	1	2	0	0	5	2
1457:	3	13	38	61	69	29	6	3
1465:	2	0	0	2	1	1	1	4
1473:	0	2	2	2	0	0	1	0
1481:	0	1	1	0	0	1	1	0
1489:	1	1	2	1	0	1	1	2
1497:	0	1	0	2	0	2	1	3
1505:	1	1	2	2	3	2	2	1
1513:	0	0	1	1	0	0	0	0
1521:	2	1	0	1	1	2	0	2
1529:	0	1	2	1	0	0	3	3
1537:	0	1	0	2	1	0	2	0
1545:	2	1	1	1	2	0	1	2
1553:	0	0	0	0	2	2	1	1
1561:	3	2	0	0	4	5	1	0
1569:	1	1	1	4	0	0	0	0
1577:	1	1	0	0	0	0	1	1
1585:	1	3	1	4	2	1	2	0
1593:	2	2	2	1	0	1	1	2
1601:	1	0	1	0	1	0	1	2
1609:	0	1	1	0	0	2	0	0
1617:	1	1	1	2	0	3	2	1
1625:	0	2	0	0	2	2	2	0
1633:	0	2	0	0	1	0	1	0
1641:	1	0	1	2	1	1	0	1
1649:	1	1	0	0	0	1	0	1
1657:	1	3	0	1	0	1	1	0

1665:	0	0	0	0	1	1	0	2

Sample Title: FEEBRIS1D-19 061-063

Channel								
1673:	0	0	0	1	0	2	3	2
1681:	0	2	2	1	0	0	0	0
1689:	1	0	1	0	0	0	0	0
1697:	2	1	2	0	2	1	0	4
1705:	2	3	0	1	1	1	1	1
1713:	0	0	2	0	2	1	0	0
1721:	1	1	0	0	0	0	0	2
1729:	3	2	0	1	0	0	2	0
1737:	1	1	0	0	1	0	0	1
1745:	1	0	2	1	0	1	0	0
1753:	0	3	0	1	0	0	1	2
1761:	2	3	8	8	6	4	2	1
1769:	0	2	0	0	0	3	0	1
1777:	0	0	0	0	0	2	0	0
1785:	2	1	1	1	0	0	1	0
1793:	0	1	0	1	1	2	1	0
1801:	0	1	1	0	0	2	0	2
1809:	2	0	0	2	2	0	0	0
1817:	0	1	1	1	0	1	0	0
1825:	0	0	1	0	0	1	0	0
1833:	0	0	0	1	1	0	2	0
1841:	0	1	0	0	0	1	0	1
1849:	3	2	1	0	0	0	0	0
1857:	0	0	0	0	0	1	1	1
1865:	0	0	0	1	1	1	0	0
1873:	1	1	0	1	0	0	2	0
1881:	1	0	0	1	2	1	0	0
1889:	2	0	0	0	1	0	0	2
1897:	0	0	0	0	2	2	1	0
1905:	1	1	1	0	1	1	0	1
1913:	1	0	0	1	0	0	1	2
1921:	1	1	3	0	0	0	1	0
1929:	1	2	0	0	1	0	0	0
1937:	0	1	1	1	0	1	1	3
1945:	0	1	0	2	0	0	2	1
1953:	0	1	0	1	1	0	0	0
1961:	0	1	0	0	0	0	1	0
1969:	1	0	0	0	0	1	1	0
1977:	1	0	1	0	0	0	0	1
1985:	1	0	1	0	0	0	0	0
1993:	0	1	0	0	0	0	0	0
2001:	1	0	2	0	3	0	1	0
2009:	1	0	0	1	1	0	3	1
2017:	0	0	0	0	0	1	0	0
2025:	4	2	0	0	0	0	0	1
2033:	1	1	0	0	0	1	0	0
2041:	0	0	1	0	0	0	2	0
2049:	0	4	0	0	0	1	2	1
2057:	1	1	1	0	0	1	1	0
2065:	0	1	1	0	1	0	0	0
2073:	0	2	2	0	1	1	0	0
2081:	2	0	0	0	0	0	0	0
2089:	0	2	1	0	0	0	0	0

2097:	1	1	0	1	0	0	3	2

Sample Title: FEEBRIS1D-19 061-063

Channel								
2105:	1	0	2	0	0	1	0	1
2113:	1	0	0	0	2	0	0	0
2121:	2	0	1	0	2	1	2	1
2129:	0	0	3	0	0	1	1	0
2137:	1	1	0	0	0	0	0	1
2145:	1	1	0	0	0	1	0	0
2153:	2	0	0	1	1	0	0	2
2161:	2	3	0	0	0	0	1	1
2169:	0	0	0	0	0	0	0	0
2177:	0	0	0	0	0	0	0	1
2185:	0	1	0	1	0	1	0	0
2193:	0	1	1	0	0	0	0	1
2201:	1	1	2	0	1	1	0	0
2209:	2	0	0	0	0	0	4	1
2217:	0	0	1	0	2	0	0	0
2225:	0	1	0	0	0	0	1	1
2233:	0	3	2	1	0	0	1	0
2241:	0	0	1	0	0	1	0	1
2249:	0	0	0	0	0	0	0	0
2257:	0	1	1	1	0	3	0	0
2265:	0	1	1	0	0	0	1	0
2273:	0	0	1	1	0	0	0	0
2281:	0	1	0	1	0	0	1	1
2289:	1	1	0	0	2	3	2	0
2297:	0	1	1	0	1	0	0	2
2305:	2	0	2	0	3	1	3	0
2313:	1	0	0	1	1	0	0	1
2321:	1	1	1	0	0	1	0	1
2329:	0	1	2	0	0	2	0	0
2337:	1	0	0	1	0	1	1	0
2345:	2	2	1	0	0	1	0	1
2353:	1	0	0	0	0	0	0	1
2361:	1	1	1	0	0	1	0	1
2369:	0	1	0	0	1	0	0	0
2377:	1	1	0	1	0	0	1	0
2385:	0	1	0	2	1	0	1	0
2393:	0	2	0	0	0	1	0	0
2401:	0	0	1	0	0	1	0	1
2409:	2	0	0	0	2	2	0	0
2417:	0	0	0	1	0	1	0	0
2425:	1	0	1	0	0	1	0	0
2433:	3	0	0	0	0	0	0	0
2441:	0	1	1	0	0	0	0	0
2449:	1	0	0	3	1	0	1	2
2457:	0	1	1	0	1	1	0	0
2465:	0	1	1	0	0	1	0	0
2473:	1	2	0	0	0	0	0	1
2481:	1	1	0	0	1	0	0	0
2489:	0	1	0	0	1	1	0	0
2497:	1	1	0	1	0	0	0	0
2505:	0	1	0	0	0	1	0	0
2513:	0	0	0	0	0	0	0	0
2521:	0	0	1	0	0	0	0	0

2529:	0	0	0	0	0	1	0	1

Sample Title: FEEBRIS1D-19 061-063

Channel								
2537:	0	0	0	0	0	1	0	1
2545:	0	0	0	0	1	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	2	0	0	0	0	0	0	0
2569:	0	0	1	0	0	0	0	0
2577:	0	1	0	0	0	0	1	0
2585:	0	1	0	0	1	0	0	0
2593:	0	0	0	2	0	0	1	0
2601:	0	1	1	0	0	0	0	0
2609:	0	0	0	0	5	9	4	4
2617:	3	0	0	0	0	1	1	1
2625:	1	0	1	0	1	0	0	1
2633:	1	0	0	0	0	0	0	0
2641:	1	0	0	0	0	0	0	0
2649:	1	0	0	0	1	1	0	0
2657:	0	0	0	0	0	0	0	1
2665:	1	0	0	0	0	0	0	0
2673:	0	0	1	0	0	0	0	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	0	0	0	0	0	1
2697:	0	0	0	0	1	0	0	0
2705:	0	0	0	0	0	1	0	2
2713:	0	0	1	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	0	0	0	0	0	0
2745:	0	1	1	0	0	0	1	0
2753:	0	1	0	0	1	0	0	0
2761:	1	0	0	0	0	0	0	0
2769:	0	1	0	0	0	0	0	1
2777:	0	0	0	0	1	1	0	0
2785:	0	0	0	0	0	0	0	1
2793:	1	0	0	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	1	0	1	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	0	0	0	1
2833:	0	0	0	0	0	2	0	0
2841:	0	1	0	0	0	1	0	0
2849:	0	0	0	1	0	0	0	0
2857:	0	1	0	0	1	0	0	0
2865:	0	0	0	0	0	0	0	1
2873:	0	0	0	0	0	0	2	0
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	0	0	0	0
2897:	0	1	1	0	0	0	0	1
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	1	0	0	0
2921:	0	0	1	1	0	0	0	0
2929:	2	1	0	0	0	0	0	0
2937:	0	0	0	1	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	1	0	0	0	1

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-19 061-063

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	1	0
2993:	0	0	0	0	0	0	0	0
3001:	0	1	0	0	1	1	0	1
3009:	1	0	0	0	0	0	0	0
3017:	1	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	1	1	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	1	0	0	0	0
3065:	0	0	0	0	0	0	0	1
3073:	0	0	0	2	0	0	0	1
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	1	0	1
3113:	0	0	0	0	0	1	0	0
3121:	0	1	0	0	0	2	1	0
3129:	0	0	0	0	0	2	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	1	0	0	0
3161:	0	0	0	0	0	1	0	0
3169:	0	0	0	0	0	0	0	1
3177:	0	1	0	0	1	0	0	0
3185:	0	0	1	1	1	0	0	0
3193:	0	0	0	0	1	0	0	0
3201:	0	0	0	0	0	1	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	1	0	0	0	0	0
3225:	0	0	0	1	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	2	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	1
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	1
3273:	0	0	1	0	1	0	0	0
3281:	0	0	1	0	1	1	0	0
3289:	1	0	1	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	1	0	0
3313:	0	0	0	1	0	0	0	0
3321:	1	0	2	0	0	0	0	0
3329:	0	0	0	1	2	0	0	0
3337:	0	0	0	0	0	1	0	0
3345:	0	0	0	1	1	0	0	0
3353:	0	0	1	0	0	0	0	0
3361:	0	0	0	0	0	0	0	1
3369:	0	0	0	0	0	1	0	0
3377:	0	0	0	2	1	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	1	0	0	0	1	0	0

Sample Title: FEEBRIS1D-19 061-063

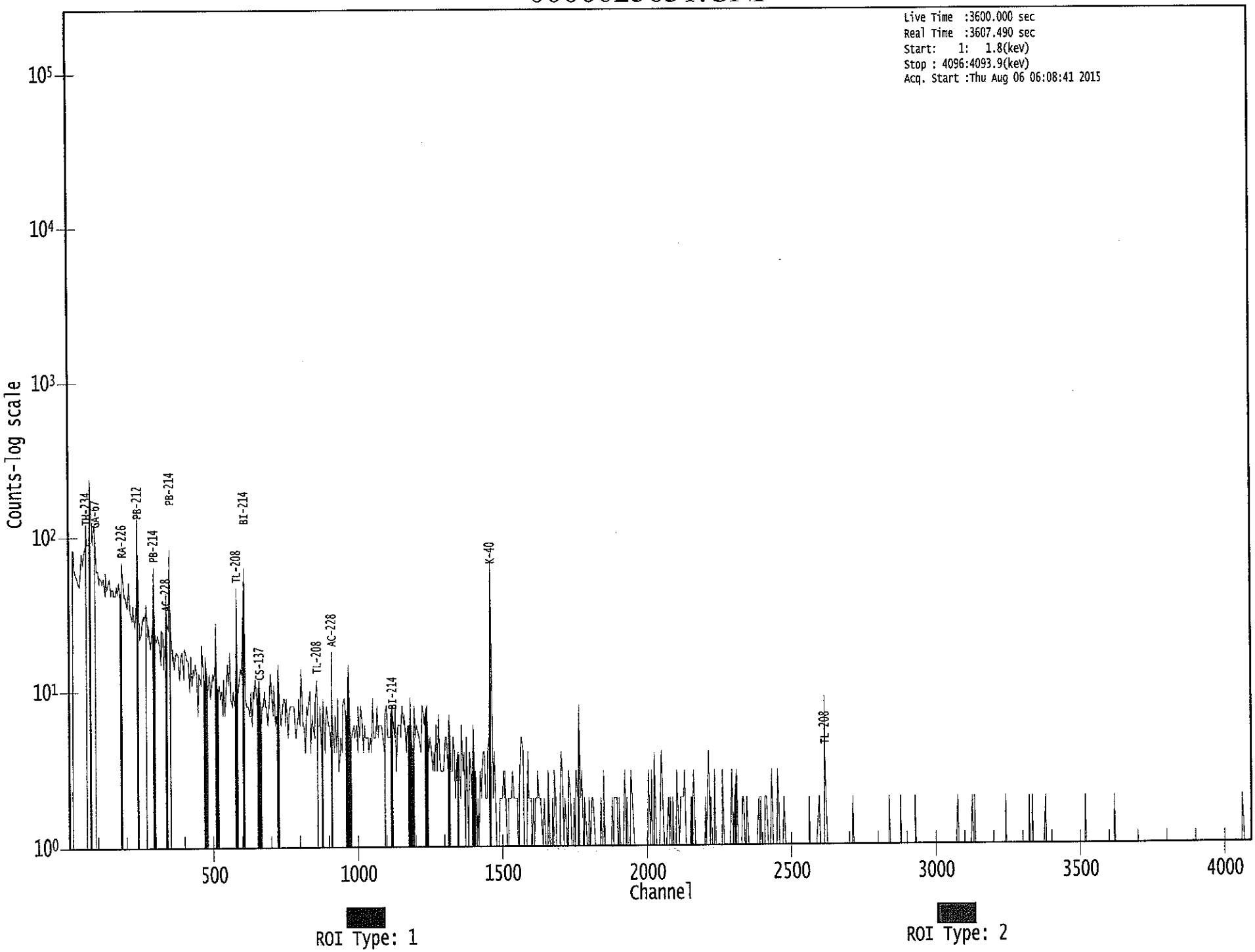
Channel								
3401:	1	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	1	0
3417:	0	0	1	0	0	0	0	0
3425:	0	0	0	0	1	0	0	0
3433:	1	0	0	1	0	0	1	1
3441:	0	0	1	1	1	0	0	1
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	1
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	1	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	1	0	0	0	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	0	0	0	1	2	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	0	0	0	0	1	0
3537:	0	0	0	0	0	1	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	1	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	1	0	0	0	0	0	0
3577:	0	1	1	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	2	0	1	0	0	0	0
3625:	0	0	0	0	1	0	1	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	1	0
3665:	0	0	0	0	0	0	0	0
3673:	0	1	0	1	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	1
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	1

3825:	0	1	0	0	0	0	0	1

Sample Title: FEEBRIS1D-19 061-063

Channel								
3833:	1	0	1	0	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	0	1	0	0	0	0	0
3857:	0	1	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	1	0
3881:	0	0	1	0	0	0	0	0
3889:	0	0	1	0	0	0	0	1
3897:	0	0	0	0	0	0	0	0
3905:	1	0	1	1	0	0	0	0
3913:	0	1	0	0	0	0	1	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	1	0	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	1
3977:	0	0	0	1	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	1	0	0	0	0	0	0
4001:	0	0	0	1	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	1	1	0	0	1
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	1	0	0	0
4041:	0	0	0	0	0	1	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	1	0	2	0	1
4065:	0	0	0	1	0	0	0	0
4073:	0	0	0	0	1	1	0	0
4081:	0	0	0	0	0	0	0	0
4089:	1	0	0	0	0	0	0	0

0000025631.CNF



Apex-Gamma

Analysis Report for 1507092-04
FEEBRIS1D-19 061-063

8/6

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507092-04
Sample Description	: FEEBRIS1D-19 061-063
Sample Type	: SOIL
Sample Size	: 5.201E+02 grams
Facility	: Countroom
Sample Taken On	: 7/8/2015 8:58:08AM
Acquisition Started	: 8/6/2015 7:15:04AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3607.8 seconds
Dead Time	: 0.22 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 25634

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/6/15

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

PEAK LOCATE REPORT

Peak Locate Performed on : 8/6/2015 8:15:13AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	48.23	47.49	0.0000	0.00
2	75.75	75.01	0.0000	0.00
3	129.77	129.06	0.0000	0.00
4	239.30	238.63	0.0000	0.00
5	269.32	268.67	0.0000	0.00
6	294.63	293.99	0.0000	0.00
7	337.92	337.30	0.0000	0.00
8	351.49	350.88	0.0000	0.00
9	487.21	486.66	0.0000	0.00
10	583.06	582.56	0.0000	0.00
11	609.46	608.97	0.0000	0.00
12	912.19	911.85	0.0000	0.00
13	956.60	956.29	0.0000	0.00
14	963.55	963.24	0.0000	0.00
15	969.02	968.71	0.0000	0.00
16	1071.73	1071.48	0.0000	0.00
17	1120.72	1120.49	0.0000	0.00
18	1190.64	1190.45	0.0000	0.00
19	1376.88	1376.80	0.0000	0.00
20	1425.13	1425.08	0.0000	0.00
21	1460.39	1460.36	0.0000	0.00
22	1619.47	1619.55	0.0000	0.00
23	1763.10	1763.27	0.0000	0.00
24	2613.26	2614.03	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 8:15:13AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	48.23	43 -	53	47.49	8.28E+01	92.29	1.10E+03	4.93
	2	75.75	68 -	80	75.01	6.20E+02	136.60	1.90E+03	4.17
	3	129.77	124 -	133	129.06	9.13E+01	75.39	7.59E+02	2.93
	4	239.30	231 -	246	238.63	4.90E+02	95.23	7.06E+02	2.82
	5	269.32	263 -	273	268.67	7.18E+01	54.89	3.64E+02	4.71
	6	294.63	288 -	299	293.99	1.06E+02	62.32	4.33E+02	2.17
	7	337.92	331 -	343	337.30	1.08E+02	54.55	3.00E+02	3.51
	8	351.49	345 -	356	350.88	2.25E+02	57.45	2.99E+02	2.11
	9	487.21	483 -	492	486.66	3.10E+01	31.05	1.20E+02	4.36
	10	583.06	576 -	587	582.56	7.09E+01	44.32	2.10E+02	1.99
	11	609.46	604 -	614	608.97	1.49E+02	39.29	1.26E+02	2.04
	12	912.19	906 -	919	911.85	7.68E+01	33.36	8.45E+01	3.02
M	13	956.60	953 -	974	956.29	2.34E+01	14.20	1.66E+01	3.15
m	14	963.55	953 -	974	963.24	1.99E+01	18.49	2.87E+01	3.15
m	15	969.02	953 -	974	968.71	3.23E+01	20.92	3.71E+01	3.15
	16	1071.73	1068 -	1074	1071.48	1.00E+01	13.18	2.40E+01	2.58
	17	1120.72	1117 -	1127	1120.49	2.05E+01	22.33	5.71E+01	2.90
	18	1190.64	1184 -	1194	1190.45	2.19E+01	23.08	5.63E+01	2.04
	19	1376.88	1372 -	1381	1376.80	1.64E+01	13.08	1.53E+01	3.28
	20	1425.13	1422 -	1428	1425.08	1.20E+01	6.93	0.00E+00	4.44
	21	1460.39	1455 -	1464	1460.36	2.20E+02	31.42	1.53E+01	2.48
	22	1619.47	1616 -	1622	1619.55	1.10E+01	6.63	0.00E+00	2.97
	23	1763.10	1758 -	1767	1763.27	3.00E+01	10.95	0.00E+00	2.37
	24	2613.26	2609 -	2618	2614.03	2.90E+01	10.77	0.00E+00	3.59

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 8:15:13AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	48.23	43 -	53	8.28E+01	92.29	1.10E+03	7.44E+01
	2	75.75	68 -	80	6.20E+02	136.60	1.90E+03	1.05E+02
	3	129.77	124 -	133	9.13E+01	75.39	7.59E+02	5.99E+01
	4	239.30	231 -	246	4.90E+02	95.23	7.06E+02	6.93E+01
	5	269.32	263 -	273	7.18E+01	54.89	3.64E+02	4.29E+01
	6	294.63	288 -	299	1.06E+02	62.32	4.33E+02	4.83E+01
	7	337.92	331 -	343	1.08E+02	54.55	3.00E+02	4.15E+01
	8	351.49	345 -	356	2.25E+02	57.45	2.99E+02	4.03E+01
	9	487.21	483 -	492	3.10E+01	31.05	1.20E+02	2.38E+01
	10	583.06	576 -	587	7.09E+01	44.32	2.10E+02	3.37E+01
	11	609.46	604 -	614	1.49E+02	39.29	1.26E+02	2.53E+01
	12	912.19	906 -	919	7.68E+01	33.36	8.45E+01	2.33E+01
M	13	956.60	953 -	974	2.34E+01	14.20	1.66E+01	6.69E+00
m	14	963.55	953 -	974	1.99E+01	18.49	2.87E+01	8.81E+00
m	15	969.02	953 -	974	3.23E+01	20.92	3.71E+01	1.00E+01
	16	1071.73	1068 -	1074	1.00E+01	13.18	2.40E+01	9.51E+00
	17	1120.72	1117 -	1127	2.05E+01	22.33	5.71E+01	1.68E+01
	18	1190.64	1184 -	1194	2.19E+01	23.08	5.63E+01	1.73E+01
	19	1376.88	1372 -	1381	1.64E+01	13.08	1.53E+01	8.44E+00
	20	1425.13	1422 -	1428	1.20E+01	6.93	0.00E+00	0.00E+00
	21	1460.39	1455 -	1464	2.20E+02	31.42	1.53E+01	8.45E+00
	22	1619.47	1616 -	1622	1.10E+01	6.63	0.00E+00	0.00E+00
	23	1763.10	1758 -	1767	3.00E+01	10.95	0.00E+00	0.00E+00
	24	2613.26	2609 -	2618	2.90E+01	10.77	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/6/2015 8:15:13AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	48.23	43 -	53	47.49	8.28E+01	92.29	1.10E+03	TH-230
	2	75.75	68 -	80	75.01	6.20E+02	136.60	1.90E+03	.....
	3	129.77	124 -	133	129.06	9.13E+01	75.39	7.59E+02	.....
	4	239.30	231 -	246	238.63	4.90E+02	95.23	7.06E+02	PB-212
	5	269.32	263 -	273	268.67	7.18E+01	54.89	3.64E+02	.....
	6	294.63	288 -	299	293.99	1.06E+02	62.32	4.33E+02	PB-214
	7	337.92	331 -	343	337.30	1.08E+02	54.55	3.00E+02	AC-228
	8	351.49	345 -	356	350.88	2.25E+02	57.45	2.99E+02	PB-214
	9	487.21	483 -	492	486.66	3.10E+01	31.05	1.20E+02	LA-140
	10	583.06	576 -	587	582.56	7.09E+01	44.32	2.10E+02	TL-208
	11	609.46	604 -	614	608.97	1.49E+02	39.29	1.26E+02	BI-214
	12	912.19	906 -	919	911.85	7.68E+01	33.36	8.45E+01	LU-172
M	13	956.60	953 -	974	956.29	2.34E+01	14.20	1.66E+01	.....
m	14	963.55	953 -	974	963.24	1.99E+01	18.49	2.87E+01	EU-152
m	15	969.02	953 -	974	968.71	3.23E+01	20.92	3.71E+01	AC-228
	16	1071.73	1068 -	1074	1071.48	1.00E+01	13.18	2.40E+01	.....
	17	1120.72	1117 -	1127	1120.49	2.05E+01	22.33	5.71E+01	SC-46 BI-214 TA-182
	18	1190.64	1184 -	1194	1190.45	2.19E+01	23.08	5.63E+01	.....
	19	1376.88	1372 -	1381	1376.80	1.64E+01	13.08	1.53E+01	.....
	20	1425.13	1422 -	1428	1425.08	1.20E+01	6.93	0.00E+00	.....
	21	1460.39	1455 -	1464	1460.36	2.20E+02	31.42	1.53E+01	K-40
	22	1619.47	1616 -	1622	1619.55	1.10E+01	6.63	0.00E+00	.....
	23	1763.10	1758 -	1767	1763.27	3.00E+01	10.95	0.00E+00	.....
	24	2613.26	2609 -	2618	2614.03	2.90E+01	10.77	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/6/2015 8:15:13AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	48.23	8.28E+01	92.29	2.60E-02	1.78E-03
	2	75.75	6.20E+02	136.60	2.13E-02	1.70E-03
	3	129.77	9.13E+01	75.39	1.53E-02	1.47E-03
	4	239.30	4.90E+02	95.23	9.39E-03	9.85E-04
	5	269.32	7.18E+01	54.89	8.46E-03	8.92E-04
	6	294.63	1.06E+02	62.32	7.80E-03	8.44E-04
	7	337.92	1.08E+02	54.55	6.87E-03	7.96E-04
	8	351.49	2.25E+02	57.45	6.62E-03	7.81E-04
	9	487.21	3.10E+01	31.05	4.83E-03	5.96E-04
	10	583.06	7.09E+01	44.32	4.05E-03	4.55E-04
	11	609.46	1.49E+02	39.29	3.87E-03	4.17E-04
	12	912.19	7.68E+01	33.36	2.61E-03	2.06E-04
M	13	956.60	2.34E+01	14.20	2.49E-03	2.00E-04
m	14	963.55	1.99E+01	18.49	2.47E-03	2.00E-04
m	15	969.02	3.23E+01	20.92	2.46E-03	1.99E-04
	16	1071.73	1.00E+01	13.18	2.24E-03	1.86E-04
	17	1120.72	2.05E+01	22.33	2.14E-03	1.79E-04
	18	1190.64	2.19E+01	23.08	2.03E-03	1.77E-04
	19	1376.88	1.64E+01	13.08	1.77E-03	2.06E-04
	20	1425.13	1.20E+01	6.93	1.72E-03	1.96E-04
	21	1460.39	2.20E+02	31.42	1.68E-03	1.89E-04
	22	1619.47	1.10E+01	6.63	1.54E-03	1.56E-04
	23	1763.10	3.00E+01	10.95	1.44E-03	1.26E-04
	24	2613.26	2.90E+01	10.77	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/6/2015 8:15:13AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	48.23	8.28E+01	92.29			8.28E+01	9.23E+01
	2	75.75	6.20E+02	136.60			6.20E+02	1.37E+02
	3	129.77	9.13E+01	75.39			9.13E+01	7.54E+01
	4	239.30	4.90E+02	95.23	4.80E+00	4.74E+00	4.85E+02	9.53E+01
	5	269.32	7.18E+01	54.89			7.18E+01	5.49E+01
	6	294.63	1.06E+02	62.32			1.06E+02	6.23E+01
	7	337.92	1.08E+02	54.55			1.08E+02	5.45E+01
	8	351.49	2.25E+02	57.45			2.25E+02	5.74E+01
	9	487.21	3.10E+01	31.05			3.10E+01	3.10E+01
	10	583.06	7.09E+01	44.32			7.09E+01	4.43E+01
	11	609.46	1.49E+02	39.29			1.49E+02	3.93E+01
	12	912.19	7.68E+01	33.36			7.68E+01	3.34E+01
M	13	956.60	2.34E+01	14.20			2.34E+01	1.42E+01
m	14	963.55	1.99E+01	18.49			1.99E+01	1.85E+01
m	15	969.02	3.23E+01	20.92			3.23E+01	2.09E+01
	16	1071.73	1.00E+01	13.18			1.00E+01	1.32E+01
	17	1120.72	2.05E+01	22.33			2.05E+01	2.23E+01
	18	1190.64	2.19E+01	23.08			2.19E+01	2.31E+01
	19	1376.88	1.64E+01	13.08			1.64E+01	1.31E+01
	20	1425.13	1.20E+01	6.93			1.20E+01	6.93E+00
	21	1460.39	2.20E+02	31.42			2.20E+02	3.14E+01
	22	1619.47	1.10E+01	6.63			1.10E+01	6.63E+00
	23	1763.10	3.00E+01	10.95			3.00E+01	1.10E+01
	24	2613.26	2.90E+01	10.77	5.52E-01	9.86E-01	2.84E+01	1.08E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/6/2015 8:15:13AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024758.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	48.23	8.28E+01	92.29			8.28E+01	9.23E+01
2	75.75	6.20E+02	136.60			6.20E+02	1.37E+02
3	129.77	9.13E+01	75.39			9.13E+01	7.54E+01
4	239.30	4.90E+02	95.23	4.80E+00	4.74E+00	4.85E+02	9.53E+01

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	5	269.32	7.18E+01	54.89			7.18E+01	5.49E+01
	6	294.63	1.06E+02	62.32			1.06E+02	6.23E+01
	7	337.92	1.08E+02	54.55			1.08E+02	5.45E+01
	8	351.49	2.25E+02	57.45			2.25E+02	5.74E+01
	9	487.21	3.10E+01	31.05			3.10E+01	3.10E+01
	10	583.06	7.09E+01	44.32			7.09E+01	4.43E+01
	11	609.46	1.49E+02	39.29			1.49E+02	3.93E+01
	12	912.19	7.68E+01	33.36			7.68E+01	3.34E+01
M	13	956.60	2.34E+01	14.20			2.34E+01	1.42E+01
m	14	963.55	1.99E+01	18.49			1.99E+01	1.85E+01
m	15	969.02	3.23E+01	20.92			3.23E+01	2.09E+01
	16	1071.73	1.00E+01	13.18			1.00E+01	1.32E+01
	17	1120.72	2.05E+01	22.33			2.05E+01	2.23E+01
	18	1190.64	2.19E+01	23.08			2.19E+01	2.31E+01
	19	1376.88	1.64E+01	13.08			1.64E+01	1.31E+01
	20	1425.13	1.20E+01	6.93			1.20E+01	6.93E+00
	21	1460.39	2.20E+02	31.42			2.20E+02	3.14E+01
	22	1619.47	1.10E+01	6.63			1.10E+01	6.63E+00
	23	1763.10	3.00E+01	10.95			3.00E+01	1.10E+01
	24	2613.26	2.90E+01	10.77	5.52E-01	9.86E-01	2.84E+01	1.08E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.972	1460.81	*	10.67	1.77E+01	3.23E+00
TL-208	0.323	583.14	*	30.22	8.37E-01	5.31E-01
		860.37		4.48		
		2614.66		35.85		
PB-212	0.833	238.63	*	44.60	1.67E+00	3.72E-01
		300.09		3.41		
BI-214	0.709	609.31	*	46.30	1.20E+00	3.41E-01
		1120.29	*	15.10	9.13E-01	9.99E-01
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.963	295.21	*	19.19	1.03E+00	6.11E-01

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.963	351.92	*	37.19	1.32E+00	3.71E-01
TH-230	0.646	48.44	*	16.90	2.72E-01	3.04E-01
		62.85		4.60		
		67.67		0.37		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 8:15:13AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	75.75	1.72228E-01	11.02		
	3	129.77	2.53692E-02	41.28		
	5	269.32	1.99366E-02	38.24		
	7	337.92	2.99645E-02	25.28	Tol.	AC-228
	9	487.21	8.61111E-03	50.08	Tol.	LA-140
	12	912.19	2.13212E-02	21.73	Tol.	LU-172
M	13	956.60	6.49932E-03	30.35		
m	14	963.55	5.52280E-03	46.49	Tol.	EU-152
m	15	969.02	8.98392E-03	32.35	Tol.	AC-228
	16	1071.73	2.77778E-03	65.91		
	18	1190.64	6.06944E-03	52.82		
	19	1376.88	4.54861E-03	39.93		
	20	1425.13	3.33333E-03	28.87		
	22	1619.47	3.05556E-03	30.15		
	23	1763.10	8.33333E-03	18.26		
	24	2613.26	7.90209E-03	19.01		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.77E+01	3.23E+00
TL-208	0.32	583.14	*	30.22	8.37E-01	5.31E-01
		860.37		4.48		
		2614.66		35.85		
PB-212	0.83	238.63	*	44.60	1.67E+00	3.72E-01
		300.09		3.41		
BI-214	0.70	609.31	*	46.30	1.20E+00	3.41E-01
		1120.29	*	15.10	9.13E-01	9.99E-01
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.96	295.21	*	19.19	1.03E+00	6.11E-01
		351.92	*	37.19	1.32E+00	3.71E-01
TH-230	0.64	48.44	*	16.90	2.72E-01	3.04E-01
		62.85		4.60		
		67.67		0.37		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.972	1.77E+01	3.23E+00	
TL-208	0.323	8.37E-01	5.31E-01	
PB-212	0.833	1.67E+00	3.72E-01	
BI-214	0.709	1.17E+00	3.23E-01	
PB-214	0.963	1.24E+00	3.17E-01	
TH-230	0.646	2.72E-01	3.04E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 8:15:13AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	75.75	1.72228E-01	11.02		
	3	129.77	2.53692E-02	41.28		
	5	269.32	1.99366E-02	38.24		
	7	337.92	2.99645E-02	25.28	Tol.	AC-228
	9	487.21	8.61111E-03	50.08	Tol.	LA-140
	12	912.19	2.13212E-02	21.73	Tol.	LU-172
M	13	956.60	6.49932E-03	30.35		
m	14	963.55	5.52280E-03	46.49	Tol.	EU-152
m	15	969.02	8.98392E-03	32.35	Tol.	AC-228
	16	1071.73	2.77778E-03	65.91		
	18	1190.64	6.06944E-03	52.82		
	19	1376.88	4.54861E-03	39.93		
	20	1425.13	3.33333E-03	28.87		
	22	1619.47	3.05556E-03	30.15		
	23	1763.10	8.33333E-03	18.26		
	24	2613.26	7.90209E-03	19.01		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	8.09E-01	1.85E+00	1.85E+00

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NA-22	1274.54		99.94	-4.13E-02	2.15E-01	2.15E-01
+	NA-24	1368.53		99.99	-1.42E+11	1.14E+13	1.29E+13
		2754.09		99.86	-2.04E+12		1.14E+13
+	AL-26	1808.65		99.76	6.29E-03	1.45E-01	1.45E-01
+	K-40	1460.81	*	10.67	1.77E+01	1.58E+00	1.58E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	4.10E-03	8.85E-02	8.85E-02
		78.34		96.00	-5.47E-03		1.15E-01
+	SC-46	889.25		99.98	1.69E-01	2.35E-01	2.35E-01
		1120.51		99.99	4.61E-02		2.78E-01
+	V-48	983.52		99.98	-1.74E-01	5.90E-01	5.90E-01
		1312.10		97.50	-2.81E-02		7.42E-01
+	CR-51	320.08		9.83	9.28E-01	2.50E+00	2.50E+00
+	MN-54	834.83		99.97	1.47E-02	1.96E-01	1.96E-01
+	CO-56	846.75		99.96	-7.58E-02	2.04E-01	2.04E-01
		1037.75		14.03	-1.15E-01		1.57E+00
		1238.25		67.00	1.59E-01		5.43E-01
		1771.40		15.51	-9.61E-01		9.04E-01
		2598.48		16.90	-3.30E-01		1.10E+00
+	CO-57	122.06		85.51	2.52E-02	1.07E-01	1.07E-01
		136.48		10.60	-2.19E-01		9.15E-01
+	CO-58	810.76		99.40	-7.19E-02	1.97E-01	1.97E-01
+	FE-59	1099.22		56.50	1.93E-01	5.17E-01	5.17E-01
		1291.56		43.20	2.42E-03		6.97E-01
+	CO-60	1173.22		100.00	2.59E-03	2.04E-01	2.06E-01
		1332.49		100.00	3.67E-02		2.04E-01
+	ZN-65	1115.52		50.75	2.62E-02	4.61E-01	4.61E-01
+	GA-67	93.31		35.70	1.20E+02	1.29E+02	1.29E+02
		208.95		2.24	1.56E+03		2.46E+03
		300.22		16.00	-9.58E+01		3.38E+02
+	SE-75	121.11		16.70	9.37E-02	1.82E-01	6.03E-01
		136.00		59.20	1.83E-02		1.82E-01
		264.65		59.80	6.70E-03		2.16E-01
		279.53		25.20	2.00E-01		5.56E-01
		400.65		11.40	-1.01E-01		1.37E+00
+	RB-82	776.52		13.00	7.09E-01	2.65E+00	2.65E+00
+	RB-83	520.41		46.00	-1.56E-01	3.23E-01	3.23E-01
		529.64		30.30	-1.47E-02		5.51E-01
		552.65		16.40	-3.84E-01		9.93E-01
+	KR-85	513.99		0.43	5.39E+01	4.08E+01	4.08E+01
+	SR-85	513.99		99.27	3.19E-01	2.42E-01	2.42E-01
+	Y-88	898.02		93.40	-1.01E-01	1.83E-01	1.83E-01
		1836.01		99.38	1.08E-02		1.90E-01
+	NB-93M	16.57		9.43	1.07E+00	4.72E-01	4.72E-01
+	NB-94	702.63		100.00	-2.55E-02	1.47E-01	1.47E-01
		871.10		100.00	5.59E-02		1.85E-01
+	NB-95	765.79		99.81	1.91E-01	3.19E-01	3.19E-01

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95M	235.69	25.00	4.01E+02	1.79E+02	1.79E+02
+	ZR-95	724.18	43.70	-5.89E-02	3.87E-01	5.44E-01
		756.72	55.30	-1.85E-01		3.87E-01
+	MO-99	181.06	6.20	-4.89E+03	1.79E+03	2.44E+03
		739.58	12.80	2.37E+02		1.79E+03
		778.00	4.50	-1.93E+03		4.75E+03
+	RU-103	497.08	89.00	-4.78E-02	2.47E-01	2.47E-01
+	RU-106	621.84	9.80	1.48E-01	1.46E+00	1.46E+00
+	AG-108M	433.93	89.90	-6.71E-02	1.32E-01	1.32E-01
		614.37	90.40	-3.67E-03		1.92E-01
		722.95	90.50	2.72E-02		1.95E-01
+	CD-109	88.03	3.72	1.43E+00	2.80E+00	2.80E+00
+	AG-110M	657.75	93.14	-1.37E-01	1.69E-01	1.69E-01
		677.61	10.53	-2.28E-01		1.56E+00
		706.67	16.46	-4.20E-01		9.82E-01
		763.93	21.98	2.49E-01		8.47E-01
		884.67	71.63	5.67E-02		2.67E-01
		1384.27	23.94	9.87E-02		7.44E-01
+	CD-113M	263.70	0.02	2.69E+01	4.71E+02	4.71E+02
+	SN-113	255.12	1.93	1.52E+00	2.52E-01	7.16E+00
		391.69	64.90	6.06E-02		2.52E-01
+	TE123M	159.00	84.10	-7.85E-02	1.38E-01	1.38E-01
+	SB-124	602.71	97.87	6.34E-02	2.14E-01	2.14E-01
		645.85	7.26	-1.19E+00		2.49E+00
		722.78	11.10	1.88E-02		2.13E+00
		1691.02	49.00	-2.54E-02		3.32E-01
+	I-125	35.49	6.49	-1.24E-01	1.07E+00	1.07E+00
+	SB-125	176.33	6.89	8.14E-01	4.47E-01	1.56E+00
		427.89	29.33	-2.08E-02		4.47E-01
		463.38	10.35	-1.21E-01		1.31E+00
		600.56	17.80	2.54E-02		7.96E-01
		635.90	11.32	-6.40E-01		1.09E+00
+	SB-126	414.70	83.30	-7.81E-01	7.29E-01	7.36E-01
		666.33	99.60	2.16E-01		8.58E-01
		695.00	99.60	-6.40E-02		7.29E-01
		720.50	53.80	-5.86E-01		1.56E+00
+	SN-126	87.57	37.00	1.38E-01	2.68E-01	2.68E-01
+	SB-127	473.00	25.00	-5.75E+00	7.22E+01	9.27E+01
		685.20	35.70	-6.58E+00		7.22E+01
		783.80	14.70	7.54E+01		2.00E+02
+	I-129	29.78	57.00	-1.44E-02	8.53E-02	8.53E-02
		33.60	13.20	-8.73E-02		3.70E-01
		39.58	7.52	-2.01E-01		6.75E-01
+	I-131	284.30	6.05	-1.87E+00	1.74E+00	2.26E+01
		364.48	81.20	-3.19E-01		1.74E+00
		636.97	7.26	-9.29E+00		2.04E+01
		722.89	1.80	1.01E+00		1.14E+02
+	TE-132	49.72	13.10	1.26E+02	5.87E+01	2.25E+02

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TE-132	228.16	88.00	-3.12E+00	5.87E+01	5.87E+01
+	BA-133	81.00	33.00	-6.62E-02	2.94E-01	3.07E-01
		302.84	17.80	-2.85E-01		6.30E-01
		356.01	60.00	1.23E-02		2.94E-01
+	I-133	529.87	86.30	-4.63E+07	1.74E+09	1.74E+09
+	XE-133	81.00	38.00	-2.63E+00	1.22E+01	1.22E+01
+	CS-134	563.23	8.38	-8.66E-02	1.99E-01	1.62E+00
		569.32	15.43	-6.59E-02		8.77E-01
		604.70	97.60	-8.58E-03		1.99E-01
		795.84	85.40	7.30E-02		2.02E-01
		801.93	8.73	2.84E-01		2.05E+00
+	CS-135	268.24	16.00	5.93E-01	7.67E-01	7.67E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	2.61E+00	6.47E-01	6.14E+00
		163.89	4.61	4.26E+00		1.03E+01
		176.55	13.56	1.87E+00		3.57E+00
		273.65	12.66	-2.39E-01		4.49E+00
		340.57	48.50	9.49E-01		1.38E+00
		818.50	99.70	-5.76E-02		6.47E-01
		1048.07	79.60	-5.42E-02		1.10E+00
		1235.34	19.70	3.29E+00		6.71E+00
+	CS-137	661.65	85.12	6.09E-02	1.98E-01	1.98E-01
+	LA-138	788.74	34.00	-7.10E-02	2.49E-01	4.59E-01
		1435.80	66.00	1.57E-02		2.49E-01
+	CE-139	165.85	80.35	8.10E-02	1.49E-01	1.49E-01
+	BA-140	162.64	6.70	-9.72E-02	2.72E+00	7.14E+00
		304.84	4.50	-1.28E+00		1.23E+01
		423.70	3.20	4.70E+00		2.04E+01
		437.55	2.00	0.00E+00		2.98E+01
		537.32	25.00	1.86E+00		2.72E+00
+	LA-140	328.77	20.50	-4.51E-01	9.92E-01	2.60E+00
		487.03	45.50	2.09E-01		1.42E+00
		815.85	23.50	-1.15E+00		2.68E+00
		1596.49	95.49	-6.98E-02		9.92E-01
+	CE-141	145.44	48.40	-1.88E-02	3.60E-01	3.60E-01
+	CE-143	57.36	11.80	-7.15E+05	7.68E+05	1.28E+06
		293.26	42.00	1.15E+06		7.68E+05
		664.55	5.20	3.95E+06		7.35E+06
+	CE-144	133.54	10.80	3.40E-02	9.32E-01	9.32E-01
+	PM-144	476.78	42.00	1.38E-01	1.43E-01	3.32E-01
		618.01	98.60	-7.21E-03		1.43E-01
		696.49	99.49	-1.46E-02		1.56E-01
+	PM-145	36.85	21.70	1.08E-02	1.27E-01	2.31E-01
		37.36	39.70	-4.44E-03		1.27E-01
		42.30	15.10	-4.51E-02		3.64E-01
		72.40	2.31	9.48E+00		4.65E+00
+	PM-146	453.90	39.94	1.36E-01	3.55E-01	3.55E-01

Analysis Report for 1507092-04

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-146	735.90	14.01	-5.38E-01	3.55E-01	1.09E+00
		747.13	13.10	-3.04E-01		1.23E+00
+	ND-147	91.11	28.90	4.91E+00	2.26E+00	2.26E+00
		531.02	13.10	9.26E-01		6.51E+00
+	PM-149	285.90	3.10	-6.63E+03	3.17E+04	3.17E+04
+	EU-152	121.78	20.50	9.77E-02	4.16E-01	4.16E-01
		244.69	5.40	-7.68E-02		2.48E+00
		344.27	19.13	-2.83E+00		6.72E-01
		778.89	9.20	-6.45E-01		1.59E+00
		964.01	10.40	7.68E-01		2.28E+00
		1085.78	7.22	2.47E-01		2.48E+00
		1112.02	9.60	-6.41E-02		2.03E+00
		1407.95	14.94	-1.59E-01		1.12E+00
+	GD-153	97.43	31.30	-3.00E-01	2.99E-01	2.99E-01
		103.18	22.20	-6.49E-02		4.06E-01
+	EU-154	123.07	40.50	6.00E-02	2.10E-01	2.10E-01
		723.30	19.70	1.26E-01		9.00E-01
		873.19	11.50	6.79E-01		1.65E+00
		996.32	10.30	5.35E-03		1.44E+00
		1004.76	17.90	-9.49E-02		9.18E-01
		1274.45	35.50	-1.15E-01		5.97E-01
+	EU-155	86.50	30.90	-5.82E-02	3.15E-01	3.15E-01
		105.30	20.70	2.95E-02		4.14E-01
+	EU-156	811.77	10.40	-1.58E+00	5.17E+00	5.17E+00
		1153.47	7.20	4.57E+00		1.13E+01
		1230.71	8.90	-4.07E+00		1.08E+01
+	HO-166M	184.41	72.60	1.74E-01	1.62E-01	1.62E-01
		280.45	29.60	7.27E-02		3.94E-01
		410.94	11.10	5.18E-01		1.21E+00
		711.69	54.10	5.35E-02		3.04E-01
+	TM-171	66.72	0.14	1.22E+01	6.10E+01	6.10E+01
+	HF-172	81.75	4.52	-1.01E+00	8.27E-01	2.13E+00
		125.81	11.30	1.56E-01		8.27E-01
+	LU-172	181.53	20.60	-6.42E+00	5.27E+00	1.05E+01
		810.06	16.63	-6.47E+00		1.77E+01
		912.12	15.25	4.41E+01		3.54E+01
		1093.66	62.50	-1.79E+00		5.27E+00
+	LU-173	100.72	5.24	-1.27E+00	6.13E-01	1.63E+00
		272.11	21.20	4.31E-02		6.13E-01
+	HF-175	343.40	84.00	-3.78E-01	2.10E-01	2.10E-01
+	LU-176	88.34	13.30	9.03E-01	1.24E-01	7.64E-01
		201.83	86.00	-4.78E-02		1.24E-01
		306.78	94.00	1.77E-02		1.24E-01
+	TA-182	67.75	41.20	1.12E-02	2.41E-01	2.41E-01
		1121.30	34.90	2.81E-01		7.72E-01
		1189.05	16.23	5.10E-01		1.75E+00
		1221.41	26.98	1.67E-01		1.01E+00
		1231.02	11.44	-1.01E+00		2.67E+00
+	IR-192	308.46	29.68	1.72E-01	3.37E-01	5.19E-01

Analysis Report for 1507092-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	IR-192	468.07		48.10	-1.95E-01	3.37E-01	3.37E-01
+	HG-203	279.19		77.30	8.47E-02	2.36E-01	2.36E-01
+	BI-207	569.67		97.72	-1.02E-02	1.35E-01	1.35E-01
		1063.62		74.90	3.30E-02		2.27E-01
+	TL-208	583.14	*	30.22	8.37E-01	8.28E-01	8.28E-01
		860.37		4.48	1.22E+00		4.19E+00
		2614.66		35.85	0.00E+00		1.04E+00
+	BI-210M	262.00		45.00	5.74E-02	2.43E-01	2.43E-01
		300.00		23.00	-1.33E-02		5.65E-01
+	PB-210	46.50		4.25	4.20E-01	1.39E+00	1.39E+00
+	PB-211	404.84		2.90	6.31E-01	4.62E+00	4.62E+00
		831.96		2.90	-3.76E+00		5.80E+00
+	BI-212	727.17		11.80	5.57E-01	1.50E+00	1.50E+00
		1620.62		2.75	-4.55E-01		6.86E+00
+	PB-212	238.63	*	44.60	1.67E+00	4.89E-01	4.89E-01
		300.09		3.41	-8.97E-02		3.81E+00
+	BI-214	609.31	*	46.30	1.20E+00	4.29E-01	4.29E-01
		1120.29	*	15.10	9.13E-01		1.62E+00
		1764.49		15.80	0.00E+00		1.77E+00
		2204.22		4.98	2.48E+00		4.83E+00
+	PB-214	295.21	*	19.19	1.03E+00	4.88E-01	9.59E-01
		351.92	*	37.19	1.32E+00		4.88E-01
+	RN-219	401.80		6.50	-8.18E-01	2.01E+00	2.01E+00
+	RA-223	323.87		3.88	1.04E+00	3.06E+00	3.06E+00
+	RA-224	240.98		3.95	1.86E+01	4.82E+00	4.82E+00
+	RA-225	40.00		31.00	-1.90E-01	6.37E-01	6.37E-01
+	RA-226	186.21		3.28	3.27E+00	3.59E+00	3.59E+00
+	TH-227	50.10		8.40	4.16E-01	7.43E-01	7.43E-01
		236.00		11.50	3.37E+00		1.50E+00
		256.20		6.30	1.40E+00		1.87E+00
+	AC-228	338.32		11.40	1.74E+00	9.73E-01	1.29E+00
		911.07		27.70	1.23E+00		9.73E-01
		969.11		16.60	9.42E-01		1.47E+00
+	TH-230	48.44	*	16.90	2.72E-01	4.98E-01	4.98E-01
		62.85		4.60	1.28E+00		1.73E+00
		67.67		0.37	1.04E+00		2.25E+01
+	PA-231	283.67		1.60	-8.32E-01	4.85E+00	7.14E+00
		302.67		2.30	-2.19E+00		4.85E+00
+	TH-231	25.64		14.70	-1.89E-01	3.32E-01	3.32E-01
		84.21		6.40	-3.38E-01		1.40E+00
+	PA-233	311.98		38.60	1.49E-01	6.42E-01	6.42E-01
+	PA-234	131.20		20.40	2.39E-01	4.62E-01	4.62E-01
		733.99		8.80	-3.62E-01		1.79E+00
		946.00		12.00	1.13E+00		1.54E+00
+	PA-234M	1001.03		0.92	-4.51E+00	1.61E+01	1.61E+01
+	TH-234	63.29		3.80	1.39E+00	2.12E+00	2.12E+00
+	U-235	143.76		10.50	-2.13E-01	8.74E-01	8.74E-01

Analysis Report for 1507092-04

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	U-235	163.35	4.70	9.07E-01	8.74E-01	2.18E+00
		205.31	4.70	2.27E+00		2.48E+00
+	NP-237	86.50	12.60	-1.41E-01	7.65E-01	7.65E-01
+	NP-239	106.10	22.70	1.34E+02	1.88E+03	1.88E+03
		228.18	10.70	1.06E+03		5.14E+03
		277.60	14.10	6.38E+02		4.18E+03
+	AM-241	59.54	35.90	8.69E-02	2.08E-01	2.08E-01
+	AM-243	74.67	66.00	6.41E-01	1.73E-01	1.73E-01
+	CM-243	209.75	3.29	6.89E-01	8.41E-01	3.51E+00
		228.14	10.60	-5.48E-02		1.03E+00
		277.60	14.00	1.28E-01		8.41E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.85E+00	1.85E+00	8.09E-01	8.68E-01
	NA-22	1274.54		99.94	2.15E-01	2.15E-01	-4.13E-02	9.71E-02
	NA-24	1368.53		99.99	1.29E+13	1.14E+13	-1.42E+11	5.48E+12
		2754.09		99.86	1.14E+13		-2.04E+12	4.03E+12
	AL-26	1808.65		99.76	1.45E-01	1.45E-01	6.29E-03	5.86E-02
+	K-40	1460.81	*	10.67	1.58E+00	1.58E+00	1.77E+01	6.79E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	8.85E-02	8.85E-02	4.10E-03	4.33E-02
		78.34		96.00	1.15E-01		-5.47E-03	5.67E-02
	SC-46	889.25		99.98	2.35E-01	2.35E-01	1.69E-01	1.08E-01
		1120.51		99.99	2.78E-01		4.61E-02	1.27E-01
	V-48	983.52		99.98	5.90E-01	5.90E-01	-1.74E-01	2.66E-01

Analysis Report for 1507092-04

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
V-48	1312.10	97.50	7.42E-01	5.90E-01	-2.81E-02	3.33E-01
CR-51	320.08	9.83	2.50E+00	2.50E+00	9.28E-01	1.19E+00
MN-54	834.83	99.97	1.96E-01	1.96E-01	1.47E-02	9.09E-02
CO-56	846.75	99.96	2.04E-01	2.04E-01	-7.58E-02	9.28E-02
	1037.75	14.03	1.57E+00		-1.15E-01	7.09E-01
	1238.25	67.00	5.43E-01		1.59E-01	2.52E-01
	1771.40	15.51	9.04E-01		-9.61E-01	3.38E-01
	2598.48	16.90	1.10E+00		-3.30E-01	4.13E-01
CO-57	122.06	85.51	1.07E-01	1.07E-01	2.52E-02	5.21E-02
	136.48	10.60	9.15E-01		-2.19E-01	4.44E-01
CO-58	810.76	99.40	1.97E-01	1.97E-01	-7.19E-02	8.94E-02
FE-59	1099.22	56.50	5.17E-01	5.17E-01	1.93E-01	2.34E-01
	1291.56	43.20	6.97E-01		2.42E-03	3.11E-01
CO-60	1173.22	100.00	2.06E-01	2.04E-01	2.59E-03	9.35E-02
	1332.49	100.00	2.04E-01		3.67E-02	9.10E-02
ZN-65	1115.52	50.75	4.61E-01	4.61E-01	2.62E-02	2.11E-01
GA-67	93.31	35.70	1.29E+02	1.29E+02	1.20E+02	6.32E+01
	208.95	2.24	2.46E+03		1.56E+03	1.19E+03
	300.22	16.00	3.38E+02		-9.58E+01	1.61E+02
SE-75	121.11	16.70	6.03E-01	1.82E-01	9.37E-02	2.93E-01
	136.00	59.20	1.82E-01		1.83E-02	8.84E-02
	264.65	59.80	2.16E-01		6.70E-03	1.03E-01
	279.53	25.20	5.56E-01		2.00E-01	2.67E-01
	400.65	11.40	1.37E+00		-1.01E-01	6.50E-01
RB-82	776.52	13.00	2.65E+00	2.65E+00	7.09E-01	1.22E+00
RB-83	520.41	46.00	3.23E-01	3.23E-01	-1.56E-01	1.50E-01
	529.64	30.30	5.51E-01		-1.47E-02	2.57E-01
	552.65	16.40	9.93E-01		-3.84E-01	4.61E-01
KR-85	513.99	0.43	4.08E+01	4.08E+01	5.39E+01	1.94E+01
SR-85	513.99	99.27	2.42E-01	2.42E-01	3.19E-01	1.15E-01
Y-88	898.02	93.40	1.83E-01	1.83E-01	-1.01E-01	8.20E-02
	1836.01	99.38	1.90E-01		1.08E-02	7.77E-02
NB-93M	16.57	9.43	4.72E-01	4.72E-01	1.07E+00	2.29E-01
NB-94	702.63	100.00	1.47E-01	1.47E-01	-2.55E-02	6.77E-02
	871.10	100.00	1.85E-01		5.59E-02	8.53E-02
NB-95	765.79	99.81	3.19E-01	3.19E-01	1.91E-01	1.48E-01
NB-95M	235.69	25.00	1.79E+02	1.79E+02	4.01E+02	8.74E+01
ZR-95	724.18	43.70	5.44E-01	3.87E-01	-5.89E-02	2.53E-01
	756.72	55.30	3.87E-01		-1.85E-01	1.78E-01
MO-99	181.06	6.20	2.44E+03	1.79E+03	-4.89E+03	1.18E+03
	739.58	12.80	1.79E+03		2.37E+02	8.27E+02
	778.00	4.50	4.75E+03		-1.93E+03	2.16E+03
RU-103	497.08	89.00	2.47E-01	2.47E-01	-4.78E-02	1.16E-01
RU-106	621.84	9.80	1.46E+00	1.46E+00	1.48E-01	6.74E-01
AG-108M	433.93	89.90	1.32E-01	1.32E-01	-6.71E-02	6.18E-02
	614.37	90.40	1.92E-01		-3.67E-03	9.02E-02
	722.95	90.50	1.95E-01		2.72E-02	9.07E-02
CD-109	88.03	3.72	2.80E+00	2.80E+00	1.43E+00	1.37E+00
AG-110M	657.75	93.14	1.69E-01	1.69E-01	-1.37E-01	7.84E-02
	677.61	10.53	1.56E+00		-2.28E-01	7.21E-01
	706.67	16.46	9.82E-01		-4.20E-01	4.53E-01
	763.93	21.98	8.47E-01		2.49E-01	3.92E-01
	884.67	71.63	2.67E-01		5.67E-02	1.23E-01

Analysis Report for 1507092-04

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	1384.27	23.94	7.44E-01	1.69E-01	9.87E-02	3.22E-01
CD-113M	263.70	0.02	4.71E+02	4.71E+02	2.69E+01	2.26E+02
SN-113	255.12	1.93	7.16E+00	2.52E-01	1.52E+00	3.44E+00
	391.69	64.90	2.52E-01		6.06E-02	1.20E-01
TE123M	159.00	84.10	1.38E-01	1.38E-01	-7.85E-02	6.71E-02
SB-124	602.71	97.87	2.14E-01	2.14E-01	6.34E-02	1.00E-01
	645.85	7.26	2.49E+00		-1.19E+00	1.14E+00
	722.78	11.10	2.13E+00		1.88E-02	9.91E-01
	1691.02	49.00	3.32E-01		-2.54E-02	1.29E-01
I-125	35.49	6.49	1.07E+00	1.07E+00	-1.24E-01	5.20E-01
SB-125	176.33	6.89	1.56E+00	4.47E-01	8.14E-01	7.55E-01
	427.89	29.33	4.47E-01		-2.08E-02	2.11E-01
	463.38	10.35	1.31E+00		-1.21E-01	6.19E-01
	600.56	17.80	7.96E-01		2.54E-02	3.70E-01
	635.90	11.32	1.09E+00		-6.40E-01	4.95E-01
SB-126	414.70	83.30	7.36E-01	7.29E-01	-7.81E-01	3.47E-01
	666.33	99.60	8.58E-01		2.16E-01	4.01E-01
	695.00	99.60	7.29E-01		-6.40E-02	3.35E-01
	720.50	53.80	1.56E+00		-5.86E-01	7.24E-01
SN-126	87.57	37.00	2.68E-01	2.68E-01	1.38E-01	1.32E-01
SB-127	473.00	25.00	9.27E+01	7.22E+01	-5.75E+00	4.35E+01
	685.20	35.70	7.22E+01		-6.58E+00	3.32E+01
	783.80	14.70	2.00E+02		7.54E+01	9.19E+01
I-129	29.78	57.00	8.53E-02	8.53E-02	-1.44E-02	4.15E-02
	33.60	13.20	3.70E-01		-8.73E-02	1.80E-01
	39.58	7.52	6.75E-01		-2.01E-01	3.28E-01
I-131	284.30	6.05	2.26E+01	1.74E+00	-1.87E+00	1.08E+01
	364.48	81.20	1.74E+00		-3.19E-01	8.23E-01
	636.97	7.26	2.04E+01		-9.29E+00	9.33E+00
	722.89	1.80	1.14E+02		1.01E+00	5.31E+01
TE-132	49.72	13.10	2.25E+02	5.87E+01	1.26E+02	1.10E+02
	228.16	88.00	5.87E+01		-3.12E+00	2.83E+01
BA-133	81.00	33.00	3.07E-01	2.94E-01	-6.62E-02	1.50E-01
	302.84	17.80	6.30E-01		-2.85E-01	3.00E-01
	356.01	60.00	2.94E-01		1.23E-02	1.42E-01
I-133	529.87	86.30	1.74E+09	1.74E+09	-4.63E+07	8.13E+08
XE-133	81.00	38.00	1.22E+01	1.22E+01	-2.63E+00	5.97E+00
CS-134	563.23	8.38	1.62E+00	1.99E-01	-8.66E-02	7.55E-01
	569.32	15.43	8.77E-01		-6.59E-02	4.07E-01
	604.70	97.60	1.99E-01		-8.58E-03	9.45E-02
	795.84	85.40	2.02E-01		7.30E-02	9.29E-02
	801.93	8.73	2.05E+00		2.84E-01	9.45E-01
CS-135	268.24	16.00	7.67E-01	7.67E-01	5.93E-01	3.69E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	6.14E+00	6.47E-01	2.61E+00	2.98E+00
	163.89	4.61	1.03E+01		4.26E+00	4.98E+00
	176.55	13.56	3.57E+00		1.87E+00	1.73E+00
	273.65	12.66	4.49E+00		-2.39E-01	2.16E+00
	340.57	48.50	1.38E+00		9.49E-01	6.62E-01
	818.50	99.70	6.47E-01		-5.76E-02	2.92E-01
	1048.07	79.60	1.10E+00		-5.42E-02	5.02E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	1235.34	19.70	6.71E+00	6.47E-01	3.29E+00	3.12E+00
CS-137	661.65	85.12	1.98E-01	1.98E-01	6.09E-02	9.26E-02
LA-138	788.74	34.00	4.59E-01	2.49E-01	-7.10E-02	2.10E-01
	1435.80	66.00	2.49E-01		1.57E-02	1.07E-01
CE-139	165.85	80.35	1.49E-01	1.49E-01	8.10E-02	7.23E-02
BA-140	162.64	6.70	7.14E+00	2.72E+00	-9.72E-02	3.46E+00
	304.84	4.50	1.23E+01		-1.28E+00	5.86E+00
	423.70	3.20	2.04E+01		4.70E+00	9.68E+00
	437.55	2.00	2.98E+01		0.00E+00	1.40E+01
	537.32	25.00	2.72E+00		1.86E+00	1.27E+00
LA-140	328.77	20.50	2.60E+00	9.92E-01	-4.51E-01	1.23E+00
	487.03	45.50	1.42E+00		2.09E-01	6.68E-01
	815.85	23.50	2.68E+00		-1.15E+00	1.20E+00
	1596.49	95.49	9.92E-01		-6.98E-02	4.33E-01
CE-141	145.44	48.40	3.60E-01	3.60E-01	-1.88E-02	1.75E-01
CE-143	57.36	11.80	1.28E+06	7.68E+05	-7.15E+05	6.23E+05
	293.26	42.00	7.68E+05		1.15E+06	3.71E+05
	664.55	5.20	7.35E+06		3.95E+06	3.45E+06
CE-144	133.54	10.80	9.32E-01	9.32E-01	3.40E-02	4.53E-01
PM-144	476.78	42.00	3.32E-01	1.43E-01	1.38E-01	1.56E-01
	618.01	98.60	1.43E-01		-7.21E-03	6.59E-02
	696.49	99.49	1.56E-01		-1.46E-02	7.20E-02
PM-145	36.85	21.70	2.31E-01	1.27E-01	1.08E-02	1.12E-01
	37.36	39.70	1.27E-01		-4.44E-03	6.17E-02
	42.30	15.10	3.64E-01		-4.51E-02	1.77E-01
	72.40	2.31	4.65E+00		9.48E+00	2.28E+00
PM-146	453.90	39.94	3.55E-01	3.55E-01	1.36E-01	1.68E-01
	735.90	14.01	1.09E+00		-5.38E-01	4.99E-01
	747.13	13.10	1.23E+00		-3.04E-01	5.66E-01
ND-147	91.11	28.90	2.26E+00	2.26E+00	4.91E+00	1.11E+00
	531.02	13.10	6.51E+00		9.26E-01	3.05E+00
PM-149	285.90	3.10	3.17E+04	3.17E+04	-6.63E+03	1.52E+04
EU-152	121.78	20.50	4.16E-01	4.16E-01	9.77E-02	2.02E-01
	244.69	5.40	2.48E+00		-7.68E-02	1.20E+00
	344.27	19.13	6.72E-01		-2.83E+00	3.21E-01
	778.89	9.20	1.59E+00		-6.45E-01	7.23E-01
	964.01	10.40	2.28E+00		7.68E-01	1.07E+00
	1085.78	7.22	2.48E+00		2.47E-01	1.12E+00
	1112.02	9.60	2.03E+00		-6.41E-02	9.20E-01
	1407.95	14.94	1.12E+00		-1.59E-01	4.85E-01
GD-153	97.43	31.30	2.99E-01	2.99E-01	-3.00E-01	1.46E-01
	103.18	22.20	4.06E-01		-6.49E-02	1.98E-01
EU-154	123.07	40.50	2.10E-01	2.10E-01	6.00E-02	1.02E-01
	723.30	19.70	9.00E-01		1.26E-01	4.19E-01
	873.19	11.50	1.65E+00		6.79E-01	7.64E-01
	996.32	10.30	1.44E+00		5.35E-03	6.42E-01
	1004.76	17.90	9.18E-01		-9.49E-02	4.13E-01
	1274.45	35.50	5.97E-01		-1.15E-01	2.69E-01
EU-155	86.50	30.90	3.15E-01	3.15E-01	-5.82E-02	1.54E-01
	105.30	20.70	4.14E-01		2.95E-02	2.02E-01
EU-156	811.77	10.40	5.17E+00	5.17E+00	-1.58E+00	2.34E+00
	1153.47	7.20	1.13E+01		4.57E+00	5.16E+00
	1230.71	8.90	1.08E+01		-4.07E+00	4.99E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HO-166M	184.41		72.60	1.62E-01	1.62E-01	1.74E-01	7.86E-02
		280.45		29.60	3.94E-01		7.27E-02	1.89E-01
		410.94		11.10	1.21E+00		5.18E-01	5.72E-01
		711.69		54.10	3.04E-01		5.35E-02	1.41E-01
	TM-171	66.72		0.14	6.10E+01	6.10E+01	1.22E+01	2.99E+01
	HF-172	81.75		4.52	2.13E+00	8.27E-01	-1.01E+00	1.04E+00
		125.81		11.30	8.27E-01		1.56E-01	4.02E-01
	LU-172	181.53		20.60	1.05E+01	5.27E+00	-6.42E+00	5.10E+00
		810.06		16.63	1.77E+01		-6.47E+00	8.04E+00
		912.12		15.25	3.54E+01		4.41E+01	1.67E+01
		1093.66		62.50	5.27E+00		-1.79E+00	2.35E+00
	LU-173	100.72		5.24	1.63E+00	6.13E-01	-1.27E+00	7.92E-01
		272.11		21.20	6.13E-01		4.31E-02	2.95E-01
	HF-175	343.40		84.00	2.10E-01	2.10E-01	-3.78E-01	1.01E-01
	LU-176	88.34		13.30	7.64E-01	1.24E-01	9.03E-01	3.75E-01
		201.83		86.00	1.24E-01		-4.78E-02	5.98E-02
		306.78		94.00	1.24E-01		1.77E-02	5.92E-02
	TA-182	67.75		41.20	2.41E-01	2.41E-01	1.12E-02	1.18E-01
		1121.30		34.90	7.72E-01		2.81E-01	3.55E-01
		1189.05		16.23	1.75E+00		5.10E-01	8.06E-01
		1221.41		26.98	1.01E+00		1.67E-01	4.62E-01
		1231.02		11.44	2.67E+00		-1.01E+00	1.23E+00
	IR-192	308.46		29.68	5.19E-01	3.37E-01	1.72E-01	2.48E-01
		468.07		48.10	3.37E-01		-1.95E-01	1.58E-01
	HG-203	279.19		77.30	2.36E-01	2.36E-01	8.47E-02	1.13E-01
	BI-207	569.67		97.72	1.35E-01	1.35E-01	-1.02E-02	6.27E-02
		1063.62		74.90	2.27E-01		3.30E-02	1.02E-01
+	TL-208	583.14	*	30.22	8.28E-01	8.28E-01	8.37E-01	3.98E-01
		860.37		4.48	4.19E+00		1.22E+00	1.94E+00
		2614.66		35.85	1.04E+00		0.00E+00	4.71E-01
	BI-210M	262.00		45.00	2.43E-01	2.43E-01	5.74E-02	1.16E-01
		300.00		23.00	5.65E-01		-1.33E-02	2.71E-01
	PB-210	46.50		4.25	1.39E+00	1.39E+00	4.20E-01	6.77E-01
	PB-211	404.84		2.90	4.62E+00	4.62E+00	6.31E-01	2.19E+00
		831.96		2.90	5.80E+00		-3.76E+00	2.66E+00
	BI-212	727.17		11.80	1.50E+00	1.50E+00	5.57E-01	7.00E-01
		1620.62		2.75	6.86E+00		-4.55E-01	2.97E+00
+	PB-212	238.63	*	44.60	4.89E-01	4.89E-01	1.67E+00	2.40E-01
		300.09		3.41	3.81E+00		-8.97E-02	1.83E+00
+	BI-214	609.31	*	46.30	4.29E-01	4.29E-01	1.20E+00	2.04E-01
		1120.29	*	15.10	1.62E+00		9.13E-01	7.49E-01
		1764.49		15.80	1.77E+00		0.00E+00	7.98E-01
		2204.22		4.98	4.83E+00		2.48E+00	2.09E+00
+	PB-214	295.21	*	19.19	9.59E-01	4.88E-01	1.03E+00	4.67E-01
		351.92	*	37.19	4.88E-01		1.32E+00	2.36E-01
	RN-219	401.80		6.50	2.01E+00	2.01E+00	-8.18E-01	9.51E-01
	RA-223	323.87		3.88	3.06E+00	3.06E+00	1.04E+00	1.46E+00
	RA-224	240.98		3.95	4.82E+00	4.82E+00	1.86E+01	2.36E+00
	RA-225	40.00		31.00	6.37E-01	6.37E-01	-1.90E-01	3.10E-01
	RA-226	186.21		3.28	3.59E+00	3.59E+00	3.27E+00	1.74E+00
	TH-227	50.10		8.40	7.43E-01	7.43E-01	4.16E-01	3.63E-01
		236.00		11.50	1.50E+00		3.37E+00	7.33E-01
		256.20		6.30	1.87E+00		1.40E+00	9.02E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AC-228	338.32		11.40	1.29E+00	9.73E-01	1.74E+00	6.19E-01
		911.07		27.70	9.73E-01		1.23E+00	4.60E-01
		969.11		16.60	1.47E+00		9.42E-01	6.88E-01
+	TH-230	48.44	*	16.90	4.98E-01	4.98E-01	2.72E-01	2.45E-01
		62.85		4.60	1.73E+00		1.28E+00	8.48E-01
		67.67		0.37	2.25E+01		1.04E+00	1.10E+01
	PA-231	283.67		1.60	7.14E+00	4.85E+00	-8.32E-01	3.42E+00
		302.67		2.30	4.85E+00		-2.19E+00	2.31E+00
	TH-231	25.64		14.70	3.32E-01	3.32E-01	-1.89E-01	1.61E-01
		84.21		6.40	1.40E+00		-3.38E-01	6.85E-01
	PA-233	311.98		38.60	6.42E-01	6.42E-01	1.49E-01	3.07E-01
	PA-234	131.20		20.40	4.62E-01	4.62E-01	2.39E-01	2.25E-01
		733.99		8.80	1.79E+00		-3.62E-01	8.28E-01
		946.00		12.00	1.54E+00		1.13E+00	7.03E-01
	PA-234M	1001.03		0.92	1.61E+01	1.61E+01	-4.51E+00	7.18E+00
	TH-234	63.29		3.80	2.12E+00	2.12E+00	1.39E+00	1.04E+00
	U-235	143.76		10.50	8.74E-01	8.74E-01	-2.13E-01	4.24E-01
		163.35		4.70	2.18E+00		9.07E-01	1.06E+00
		205.31		4.70	2.48E+00		2.27E+00	1.20E+00
	NP-237	86.50		12.60	7.65E-01	7.65E-01	-1.41E-01	3.75E-01
	NP-239	106.10		22.70	1.88E+03	1.88E+03	1.34E+02	9.17E+02
		228.18		10.70	5.14E+03		1.06E+03	2.48E+03
		277.60		14.10	4.18E+03		6.38E+02	2.01E+03
	AM-241	59.54		35.90	2.08E-01	2.08E-01	8.69E-02	1.02E-01
	AM-243	74.67		66.00	1.73E-01	1.73E-01	6.41E-01	8.50E-02
	CM-243	209.75		3.29	3.51E+00	8.41E-01	6.89E-01	1.70E+00
		228.14		10.60	1.03E+00		-5.48E-02	4.98E-01
		277.60		14.00	8.41E-01		1.28E-01	4.03E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507092-04

FEEBRIS1D-19 061-063

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-19 061-063

Elapsed Live time: 3600
Elapsed Real Time: 3608

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	21	75
17:	82	74	71	58	47	58	50	49
25:	58	47	42	58	42	54	45	45
33:	39	54	46	43	45	47	54	43
41:	46	45	43	49	66	70	58	51
49:	69	55	58	64	49	61	62	53
57:	67	68	84	79	73	94	96	91
65:	67	83	78	78	83	84	91	106
73:	122	189	204	210	184	96	62	61
81:	76	68	82	74	74	97	95	99
89:	92	95	105	113	110	63	55	52
97:	49	54	58	41	53	45	51	58
105:	53	47	42	65	54	51	50	53
113:	56	47	50	46	42	50	46	37
121:	52	40	43	34	42	33	48	66
129:	63	55	42	47	41	34	43	39
137:	49	39	45	31	40	41	48	29
145:	39	40	41	46	41	37	54	39
153:	42	55	39	37	36	29	33	41
161:	39	40	38	45	49	32	48	34
169:	37	44	28	33	52	31	43	44
177:	36	27	34	39	33	21	35	40
185:	79	70	36	42	33	35	30	32
193:	36	44	29	25	29	26	24	28
201:	30	28	32	47	33	29	40	38
209:	47	27	36	22	33	18	36	34
217:	33	25	39	38	20	28	22	37
225:	24	28	29	19	27	19	31	23
233:	19	27	34	47	108	162	119	71
241:	50	53	35	26	19	19	20	22
249:	24	28	16	22	23	24	25	28
257:	25	27	24	26	19	13	15	17
265:	17	28	17	27	36	29	25	27
273:	16	22	26	18	20	25	18	24
281:	22	18	21	18	12	19	21	13
289:	22	23	17	23	27	60	57	29
297:	21	15	16	22	16	13	14	11
305:	28	10	20	19	27	13	14	14
313:	16	11	20	13	20	12	12	14
321:	18	25	16	17	11	16	16	16
329:	14	9	11	12	15	16	17	23
337:	36	32	35	17	19	13	12	14
345:	12	19	22	23	20	49	94	58
353:	35	14	13	16	8	20	14	12
361:	12	12	12	10	14	8	19	11

369:	10	10	18	8	17	17	11	12

Sample Title: FEEBRIS1D-19 061-063

Channel								
377:	14	18	18	9	10	17	5	11
385:	14	11	22	12	13	16	14	11
393:	10	13	24	13	11	20	6	12
401:	11	17	21	8	9	14	13	15
409:	17	10	11	10	13	13	6	9
417:	11	10	16	18	16	10	10	12
425:	11	10	10	13	11	12	9	8
433:	8	9	10	7	6	13	11	11
441:	12	12	7	10	11	12	9	12
449:	12	9	13	13	11	12	13	10
457:	12	10	5	10	9	15	20	8
465:	7	8	8	13	11	7	5	8
473:	13	4	8	8	11	7	11	13
481:	8	6	6	10	12	12	13	11
489:	5	8	8	6	6	7	9	14
497:	5	13	8	9	5	10	13	10
505:	7	5	13	9	22	35	26	12
513:	12	3	11	5	5	3	6	7
521:	8	6	10	4	8	5	9	5
529:	9	8	5	10	8	13	4	8
537:	10	7	5	11	9	2	3	4
545:	4	6	5	6	6	10	6	7
553:	6	7	4	6	9	12	10	8
561:	7	7	4	4	6	9	4	4
569:	8	4	11	4	7	5	12	7
577:	10	4	8	10	21	29	43	17
585:	10	9	8	8	5	6	8	11
593:	6	4	8	3	2	11	10	6
601:	7	6	7	5	7	8	19	44
609:	65	24	20	11	7	2	9	5
617:	4	5	5	7	5	7	6	6
625:	5	4	6	5	5	9	6	3
633:	4	4	4	4	5	4	3	7
641:	6	5	4	7	1	6	5	4
649:	4	4	8	11	5	5	6	4
657:	6	3	8	9	6	12	9	10
665:	7	8	10	5	3	6	9	7
673:	2	5	8	6	5	6	9	5
681:	7	9	3	5	4	3	5	3
689:	5	4	3	6	8	1	12	2
697:	5	3	5	5	9	5	6	6
705:	2	5	5	5	6	7	8	7
713:	7	7	5	6	8	6	7	9
721:	7	5	5	4	6	10	11	5
729:	4	10	9	4	5	3	4	8
737:	5	1	5	3	10	8	3	4
745:	8	4	8	3	7	5	6	7
753:	4	6	5	6	5	3	8	1
761:	9	7	6	6	8	5	6	6
769:	6	3	4	5	4	3	7	5
777:	3	5	7	4	1	1	8	4
785:	6	7	6	4	3	1	5	5
793:	6	7	6	4	7	3	4	4

801: 7 3 9 9 5 6 4 4

Sample Title: FEEBRIS1D-19 061-063

Channel								
809:	5	5	1	1	5	3	4	3
817:	3	3	3	3	6	2	6	3
825:	5	6	6	6	4	3	2	3
833:	6	4	9	6	9	10	7	5
841:	5	6	3	6	5	2	3	2
849:	7	2	8	5	2	4	8	2
857:	6	2	5	10	8	7	4	7
865:	5	5	3	2	4	11	3	7
873:	6	7	5	2	5	1	4	8
881:	6	1	3	2	7	5	3	7
889:	4	4	5	7	4	3	1	4
897:	2	3	6	4	1	1	5	2
905:	4	5	4	4	10	18	24	21
913:	7	3	7	4	5	4	3	1
921:	4	0	5	3	3	5	2	2
929:	4	3	3	4	8	5	7	5
937:	3	3	2	5	0	4	5	4
945:	2	4	2	9	3	7	2	1
953:	1	2	6	9	7	2	2	5
961:	4	6	7	9	7	2	8	18
969:	13	7	5	5	5	1	4	4
977:	4	1	2	5	9	3	3	0
985:	3	2	3	7	5	3	3	3
993:	3	3	2	5	1	1	2	2
1001:	1	1	3	4	7	4	4	1
1009:	8	3	5	4	2	4	4	0
1017:	3	2	1	4	3	6	4	2
1025:	1	3	5	4	4	3	3	4
1033:	2	2	1	5	2	2	6	2
1041:	6	6	2	2	6	7	6	3
1049:	3	1	5	2	2	2	7	3
1057:	4	1	2	4	2	6	6	0
1065:	3	2	1	3	3	1	5	4
1073:	6	0	3	3	5	4	2	5
1081:	2	2	4	2	4	3	8	1
1089:	2	2	2	3	3	1	3	2
1097:	5	1	1	7	2	4	5	1
1105:	0	5	2	2	4	1	4	5
1113:	2	4	7	3	1	7	7	10
1121:	5	0	4	4	6	2	3	3
1129:	4	1	3	2	4	1	1	5
1137:	5	2	5	5	3	2	2	4
1145:	3	3	3	3	3	3	5	8
1153:	5	2	4	7	1	4	2	2
1161:	4	2	4	3	3	0	2	4
1169:	6	9	1	5	0	2	2	3
1177:	4	7	6	0	5	5	4	5
1185:	4	4	3	4	6	6	6	9
1193:	2	1	1	7	4	5	3	3
1201:	6	5	3	3	5	6	2	1
1209:	6	3	5	4	3	5	2	3
1217:	0	5	6	2	4	4	5	4
1225:	8	7	1	4	4	8	3	9

1233: 3 6 10 7 10 5 8 4

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Channel								
1241:	3	5	6	3	7	5	0	4
1249:	3	3	5	6	3	4	0	0
1257:	1	2	3	4	2	3	2	4
1265:	4	4	3	2	2	2	3	3
1273:	8	2	0	4	5	2	3	6
1281:	6	4	0	4	5	2	2	3
1289:	2	4	3	1	3	3	2	0
1297:	2	3	4	1	0	5	0	4
1305:	2	5	3	2	2	0	5	4
1313:	3	4	3	3	5	2	1	1
1321:	1	2	7	3	1	3	3	3
1329:	2	3	0	5	3	1	4	3
1337:	1	3	2	1	3	2	1	5
1345:	3	4	1	4	3	2	0	2
1353:	3	1	2	4	0	0	1	3
1361:	1	3	2	3	1	2	1	1
1369:	2	0	0	1	1	1	2	6
1377:	3	6	2	2	0	2	4	1
1385:	1	0	2	2	1	2	1	1
1393:	1	2	1	3	2	3	1	1
1401:	2	0	2	0	2	3	1	1
1409:	3	1	2	1	2	3	2	4
1417:	0	0	4	1	0	0	2	2
1425:	3	3	2	0	0	1	2	1
1433:	1	1	1	1	2	1	3	2
1441:	1	2	2	1	1	1	1	1
1449:	1	1	5	3	3	0	2	0
1457:	3	17	28	76	61	31	10	0
1465:	1	0	0	1	1	1	3	0
1473:	0	0	1	0	1	2	3	0
1481:	1	1	1	0	0	0	3	0
1489:	1	3	1	1	3	1	3	2
1497:	0	0	0	2	1	0	2	2
1505:	2	1	4	3	0	2	2	1
1513:	0	3	0	0	0	1	1	4
1521:	2	0	0	0	0	0	0	0
1529:	3	1	1	4	1	1	2	1
1537:	0	1	0	0	0	3	0	0
1545:	0	0	1	0	0	0	0	1
1553:	2	0	0	1	1	1	2	0
1561:	1	0	1	1	0	0	0	0
1569:	2	0	2	0	0	1	0	1
1577:	1	1	0	0	2	1	2	2
1585:	1	1	2	2	2	2	1	6
1593:	2	2	0	1	2	3	3	2
1601:	1	0	2	1	3	0	2	4
1609:	1	0	0	0	1	0	0	0
1617:	0	2	3	4	2	0	0	2
1625:	1	2	1	0	1	2	2	2
1633:	1	0	0	0	2	0	2	1
1641:	2	0	1	1	0	3	0	0
1649:	0	1	0	0	1	1	2	0
1657:	0	0	0	0	3	1	0	0

1665:	1	0	1	1	0	2	1	1

Sample Title: FEEBRIS1D-19 061-063

Channel								
1673:	0	0	1	0	1	0	1	0
1681:	0	0	0	0	0	1	1	0
1689:	1	0	1	0	0	1	0	2
1697:	0	0	0	1	2	0	0	3
1705:	1	0	1	1	0	1	0	1
1713:	0	0	0	1	0	1	0	0
1721:	2	0	1	1	0	1	1	0
1729:	1	0	4	1	0	2	0	1
1737:	2	2	2	0	0	0	1	0
1745:	0	1	0	0	2	0	0	0
1753:	0	1	2	0	0	0	1	2
1761:	1	3	9	8	3	3	0	0
1769:	0	0	0	0	1	0	1	1
1777:	0	0	0	1	1	0	0	0
1785:	1	2	0	1	2	0	0	3
1793:	0	1	0	0	0	0	0	3
1801:	2	0	0	1	1	0	0	0
1809:	1	0	0	2	1	0	0	1
1817:	0	0	1	0	1	2	1	0
1825:	1	0	3	1	0	2	0	1
1833:	0	0	2	0	1	0	1	0
1841:	2	0	0	0	1	1	1	0
1849:	0	1	0	0	1	0	0	1
1857:	1	3	0	0	1	2	0	0
1865:	0	0	0	0	1	0	1	2
1873:	3	1	1	0	1	1	2	0
1881:	0	1	0	0	1	1	1	1
1889:	1	0	0	0	0	5	0	0
1897:	0	0	0	1	0	0	0	1
1905:	0	2	0	0	0	1	1	2
1913:	1	0	0	0	1	1	0	1
1921:	1	1	0	1	2	1	0	0
1929:	1	1	1	0	1	0	0	0
1937:	0	1	0	0	1	1	0	2
1945:	2	1	0	0	1	1	2	1
1953:	4	1	0	0	0	2	1	1
1961:	1	0	0	2	0	1	2	1
1969:	0	0	0	0	0	0	1	1
1977:	0	0	0	1	1	2	0	2
1985:	0	0	0	1	1	0	1	1
1993:	1	1	2	2	3	0	1	2
2001:	1	1	0	1	1	0	1	0
2009:	0	0	1	1	0	3	0	0
2017:	0	0	2	0	0	0	0	0
2025:	0	1	1	0	1	0	0	1
2033:	0	2	0	0	1	1	0	0
2041:	1	1	0	0	0	0	0	0
2049:	1	0	0	1	0	0	2	1
2057:	1	1	0	0	0	1	2	0
2065:	1	0	0	0	0	0	0	2
2073:	0	0	0	2	0	2	1	1
2081:	0	0	0	1	0	0	1	0
2089:	0	0	1	0	0	0	2	0

2097: 1 1 0 0 0 3 4 0

Sample Title: FEEBRIS1D-19 061-063

Channel								
2105:	0	1	2	1	0	0	0	1
2113:	1	1	0	2	1	0	2	3
2121:	1	0	0	1	0	1	0	1
2129:	0	0	1	1	0	1	0	1
2137:	2	1	0	1	1	0	1	0
2145:	0	2	0	1	2	1	0	0
2153:	1	1	0	0	1	0	2	0
2161:	0	1	0	1	0	0	0	0
2169:	2	0	1	0	1	0	0	0
2177:	0	0	0	0	1	0	1	0
2185:	0	1	0	0	2	0	0	1
2193:	0	0	1	1	0	0	1	1
2201:	0	2	2	3	1	2	2	0
2209:	0	1	0	1	0	0	1	1
2217:	0	0	0	2	0	2	0	0
2225:	1	1	0	1	0	0	1	1
2233:	0	1	1	0	1	0	1	1
2241:	0	0	0	0	2	0	1	0
2249:	0	0	1	1	0	1	1	0
2257:	0	0	0	2	0	0	1	0
2265:	0	1	0	0	0	1	0	1
2273:	0	2	0	2	1	0	1	1
2281:	1	0	1	1	2	0	1	0
2289:	1	0	0	0	2	1	1	0
2297:	1	1	0	1	0	1	1	0
2305:	1	1	0	1	2	1	0	2
2313:	1	2	1	0	1	0	0	0
2321:	0	2	0	2	0	0	1	0
2329:	0	1	1	2	0	0	0	1
2337:	0	0	1	0	0	2	1	1
2345:	1	0	1	1	1	1	2	0
2353:	0	1	1	0	0	1	0	0
2361:	0	1	2	0	1	0	2	0
2369:	0	1	0	0	1	0	0	0
2377:	0	1	0	1	1	0	1	1
2385:	1	2	0	0	0	1	0	0
2393:	0	1	0	0	0	0	0	2
2401:	0	0	0	1	1	1	0	4
2409:	0	0	0	2	1	1	1	0
2417:	1	1	1	0	1	0	1	1
2425:	0	0	0	1	0	1	0	0
2433:	0	1	0	1	0	2	2	0
2441:	0	0	1	0	0	0	0	1
2449:	0	0	1	0	0	1	1	0
2457:	1	0	0	1	0	0	1	0
2465:	0	0	0	0	0	1	0	0
2473:	0	0	0	0	0	0	2	0
2481:	0	0	1	1	0	1	0	0
2489:	0	0	0	0	0	0	0	0
2497:	0	0	1	0	0	0	1	2
2505:	0	0	0	0	0	0	1	1
2513:	0	0	0	0	1	1	0	0
2521:	0	1	1	1	0	0	1	0

2529:	0	0	0	0	0	0	0	0

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Channel								
2537:	0	0	0	0	0	1	0	1
2545:	0	0	1	0	0	1	1	0
2553:	0	0	1	0	0	0	0	0
2561:	0	0	1	0	1	0	0	0
2569:	0	0	0	0	0	0	0	0
2577:	0	0	0	2	0	0	0	0
2585:	1	0	0	0	0	2	0	1
2593:	1	0	0	0	0	0	0	0
2601:	0	0	2	1	0	0	0	0
2609:	0	1	2	3	5	5	7	3
2617:	3	0	0	0	1	0	0	0
2625:	0	0	1	1	0	0	0	0
2633:	1	0	0	0	0	0	0	0
2641:	0	0	1	0	0	0	0	0
2649:	1	0	0	0	0	0	1	0
2657:	0	0	1	0	0	0	0	0
2665:	1	0	0	0	0	2	0	0
2673:	1	0	0	0	1	0	0	0
2681:	1	0	0	0	0	0	0	0
2689:	1	0	0	0	0	1	0	0
2697:	0	0	1	0	0	0	0	0
2705:	0	0	1	0	1	0	0	1
2713:	0	0	1	1	0	1	0	0
2721:	0	0	0	0	0	1	0	0
2729:	0	0	0	0	0	0	0	1
2737:	0	0	0	0	0	0	1	1
2745:	0	0	1	0	0	0	1	0
2753:	0	1	0	0	0	0	0	0
2761:	0	1	0	1	0	0	0	1
2769:	1	0	0	0	0	1	0	0
2777:	0	0	0	0	0	0	0	0
2785:	1	1	0	0	2	0	1	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	0	0	1	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	1	0	0	0
2825:	0	2	0	1	0	0	0	0
2833:	1	0	0	1	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	1	0	0	1	0	0	0
2857:	0	0	1	0	0	0	0	0
2865:	0	0	0	0	0	1	0	0
2873:	0	0	0	0	0	1	0	1
2881:	0	1	0	0	0	1	1	0
2889:	0	0	0	0	0	0	0	1
2897:	0	0	0	1	0	0	0	0
2905:	0	0	0	0	1	1	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	1	0	0	0	1	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	1	0

2961:	0	0	1	0	0	0	0	0

Sample Title: FEEBRIS1D-19 061-063

Channel								
2969:	0	0	0	0	0	0	0	1
2977:	0	2	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	1	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	1	1	1	1	0	0	0	1
3041:	0	1	1	1	0	0	0	0
3049:	0	0	0	0	0	0	0	1
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	1
3081:	0	1	1	0	0	0	0	0
3089:	0	0	0	0	0	1	0	1
3097:	0	0	0	0	0	0	0	0
3105:	0	1	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	1	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	1	0	0	0	1	1	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	1
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	1	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	1	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	1	0	0	1	0	0	0	0
3241:	0	0	0	1	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	1	0
3265:	0	1	0	0	0	0	0	0
3273:	1	0	1	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	1	0	0	0	0	0	0	0
3305:	1	0	0	0	0	0	0	0
3313:	0	0	0	1	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	1	1	1	0	0	0	0
3337:	0	0	1	0	0	0	1	0
3345:	0	0	0	0	0	0	0	1
3353:	0	1	0	0	1	0	0	0
3361:	0	0	0	0	0	0	0	1
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	1	0	0	0	1
3385:	0	0	0	0	0	0	0	0

3393:	0	0	1	0	0	1	0	0

Sample Title: FEEBRIS1D-19 061-063

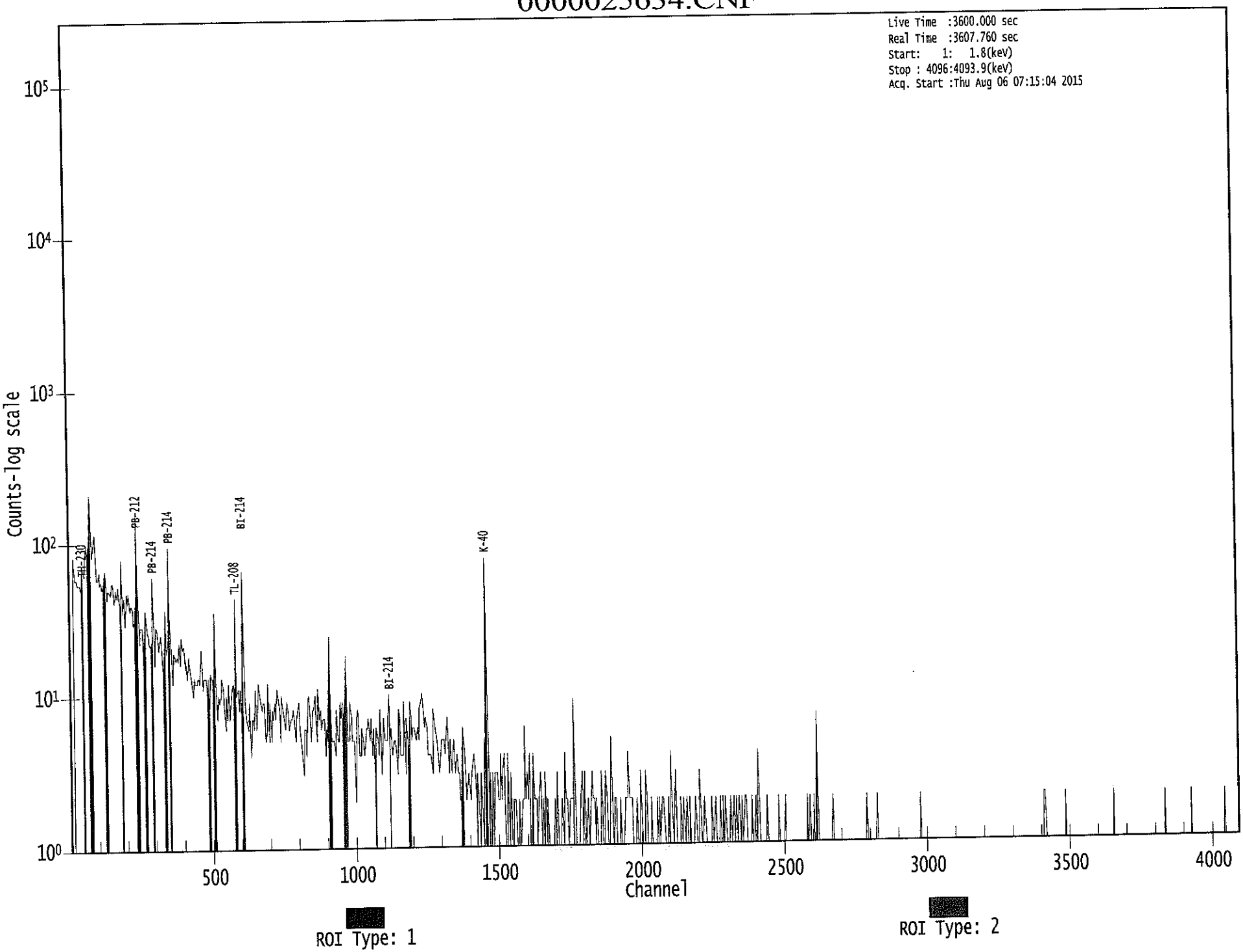
Channel								
3401:	1	0	0	0	0	0	0	0
3409:	2	0	0	0	0	2	0	0
3417:	0	0	0	1	0	0	0	0
3425:	0	0	1	0	0	0	0	0
3433:	0	0	0	1	1	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	1
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	1	0	0	0	0	0	0
3481:	0	0	0	0	0	2	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	1	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	1	0	0	0	0	0	0
3569:	0	0	0	1	0	0	0	0
3577:	0	0	0	0	0	0	0	1
3585:	0	0	1	0	0	0	0	0
3593:	0	0	1	0	0	0	0	0
3601:	0	0	0	1	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	1	0	0
3625:	0	0	0	0	1	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	1	0	0	0
3649:	0	0	0	0	0	0	2	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	1	0	0	0	0
3673:	0	1	0	0	0	1	0	0
3681:	0	0	0	0	0	0	0	0
3689:	1	0	1	1	0	0	0	1
3697:	0	0	0	0	0	0	1	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	1	0	1
3721:	0	0	0	0	0	0	1	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	1	0	0	0	0
3745:	1	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	1	0	0	0	0
3769:	0	1	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	1
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-19 061-063

Channel								
3833:	0	0	2	0	0	0	0	0
3841:	0	0	0	0	0	0	1	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	1	0	1	0
3881:	0	0	0	0	1	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	1	0	0	0	0	0	0	0
3905:	0	1	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	1	0	2	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	1	1	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	1	0	1	0	0	0	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	1	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	1	0	0	1	0	1	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	1	0	0	0	1
4041:	0	0	0	2	0	0	0	0
4049:	0	0	0	0	0	1	0	0
4057:	0	0	0	0	0	0	0	0
4065:	1	1	0	0	0	0	0	0
4073:	1	0	0	1	1	0	1	1
4081:	0	0	0	0	0	0	0	0
4089:	0	0	1	0	0	0	0	0

0000025634.CNF



Apex-Gamma

Analysis Report for 1507092-05
DUPLICATE 3

8/6

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507092-05
Sample Description	: DUPLICATE 3
Sample Type	: SOIL
Sample Size	: 5.135E+02 grams
Facility	: Countroom
Sample Taken On	: 7/8/2015 8:58:38AM
Acquisition Started	: 8/6/2015 6:08:19AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25628

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/6/15

Analysis Report for 1507092-05

DUPLICATE 3

PEAK LOCATE REPORT

Peak Locate Performed on : 8/6/2015 7:08:23AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	74.94	75.28	0.0000	0.00
2	77.51	77.85	0.0000	0.00
3	87.80	88.13	0.0000	0.00
4	185.85	186.16	0.0000	0.00
5	209.86	210.16	0.0000	0.00
6	231.41	231.70	0.0000	0.00
7	238.83	239.11	0.0000	0.00
8	241.80	242.09	0.0000	0.00
9	258.25	258.53	0.0000	0.00
10	295.33	295.60	0.0000	0.00
11	299.87	300.14	0.0000	0.00
12	327.85	328.11	0.0000	0.00
13	338.79	339.04	0.0000	0.00
14	347.29	347.54	0.0000	0.00
15	351.99	352.24	0.0000	0.00
16	438.79	439.01	0.0000	0.00
17	511.17	511.36	0.0000	0.00
18	549.54	549.72	0.0000	0.00
19	579.93	580.10	0.0000	0.00
20	583.20	583.37	0.0000	0.00
21	609.34	609.50	0.0000	0.00
22	676.86	676.99	0.0000	0.00
23	727.60	727.72	0.0000	0.00
24	755.38	755.49	0.0000	0.00
25	794.54	794.64	0.0000	0.00
26	822.28	822.36	0.0000	0.00
27	841.27	841.35	0.0000	0.00
28	911.32	911.38	0.0000	0.00
29	933.95	934.00	0.0000	0.00
30	948.75	948.79	0.0000	0.00
31	969.29	969.32	0.0000	0.00
32	1023.72	1023.73	0.0000	0.00
33	1116.45	1116.43	0.0000	0.00
34	1120.43	1120.41	0.0000	0.00
35	1172.60	1172.56	0.0000	0.00
36	1183.36	1183.32	0.0000	0.00
37	1199.99	1199.94	0.0000	0.00
38	1238.06	1238.00	0.0000	0.00
39	1352.52	1352.41	0.0000	0.00
40	1378.23	1378.12	0.0000	0.00
41	1460.99	1460.85	0.0000	0.00
42	1464.68	1464.54	0.0000	0.00

Analysis Report for 1507092-05

DUPLICATE 3

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1510.31	1510.15	0.0000	0.00
44	1621.42	1621.22	0.0000	0.00
45	1699.55	1699.32	0.0000	0.00
46	1729.64	1729.40	0.0000	0.00
47	1764.49	1764.24	0.0000	0.00
48	1825.55	1825.27	0.0000	0.00
49	1846.36	1846.07	0.0000	0.00
50	1880.73	1880.43	0.0000	0.00
51	2065.83	2065.46	0.0000	0.00
52	2096.38	2096.00	0.0000	0.00
53	2103.53	2103.15	0.0000	0.00
54	2117.14	2116.75	0.0000	0.00
55	2203.57	2203.15	0.0000	0.00
56	2253.73	2253.29	0.0000	0.00
57	2446.39	2445.88	0.0000	0.00
58	2614.15	2613.57	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507092-05

DUPLICATE 3

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:08:23AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	74.94	73 -	83	75.28	3.21E+02	86.04	1.23E+03	1.60
m	2	77.51	73 -	83	77.85	5.37E+02	92.84	1.16E+03	1.61
m	3	87.80	83 -	97	88.13	1.95E+02	58.21	6.45E+02	1.48
	4	185.85	182 -	190	186.16	2.15E+02	76.96	7.80E+02	1.94
	5	209.86	207 -	213	210.16	7.56E+01	61.43	6.21E+02	1.37
M	6	231.41	230 -	247	231.70	5.09E+01	26.80	1.80E+02	2.22
m	7	238.83	230 -	247	239.11	7.07E+02	64.67	3.00E+02	1.75
m	8	241.80	230 -	247	242.09	2.00E+02	73.88	4.20E+02	2.24
	9	258.25	255 -	262	258.53	4.35E+01	53.03	4.39E+02	2.86
M	10	295.33	292 -	303	295.60	3.05E+02	49.75	2.55E+02	1.99
m	11	299.87	292 -	303	300.14	9.66E+01	45.76	3.30E+02	2.40
	12	327.85	325 -	331	328.11	4.17E+01	43.06	3.05E+02	1.89
	13	338.79	334 -	344	339.04	1.76E+02	62.20	4.19E+02	1.83
M	14	347.29	346 -	360	347.54	2.61E+01	13.71	4.07E+01	2.16
m	15	351.99	346 -	360	352.24	5.25E+02	51.82	1.31E+02	1.74
	16	438.79	436 -	442	439.01	3.91E+01	31.61	1.52E+02	2.50
	17	511.17	506 -	516	511.36	1.85E+02	47.97	2.07E+02	2.35
	18	549.54	547 -	554	549.72	2.44E+01	29.80	1.31E+02	2.84
M	19	579.93	579 -	593	580.10	1.41E+01	10.95	3.35E+01	2.15
m	20	583.20	579 -	593	583.37	2.47E+02	36.77	8.85E+01	2.16
	21	609.34	604 -	614	609.50	3.89E+02	56.62	2.20E+02	2.06
	22	676.86	674 -	681	676.99	2.78E+01	25.38	9.03E+01	4.89
	23	727.60	724 -	733	727.72	5.30E+01	37.18	1.60E+02	2.15
	24	755.38	751 -	759	755.49	3.36E+01	30.31	1.19E+02	4.93
	25	794.54	792 -	798	794.64	3.17E+01	22.74	7.25E+01	1.18
	26	822.28	819 -	826	822.36	3.19E+01	22.18	6.22E+01	4.32
	27	841.27	839 -	844	841.35	2.08E+01	19.16	5.64E+01	3.49
	28	911.32	905 -	917	911.38	1.48E+02	45.40	1.65E+02	2.27
	29	933.95	931 -	937	934.00	1.84E+01	23.29	8.12E+01	1.24
	30	948.75	944 -	954	948.79	3.33E+01	30.68	1.01E+02	5.45
	31	969.29	966 -	972	969.32	6.64E+01	31.59	1.27E+02	1.92
	32	1023.72	1019 -	1029	1023.73	2.06E+01	26.49	8.29E+01	2.93
M	33	1116.45	1114 -	1124	1116.43	1.48E+01	17.07	5.07E+01	2.49
m	34	1120.43	1114 -	1124	1120.41	8.14E+01	27.15	7.42E+01	2.27
	35	1172.60	1170 -	1175	1172.56	1.98E+01	14.59	2.65E+01	3.10
	36	1183.36	1179 -	1187	1183.32	3.26E+01	23.66	6.28E+01	5.81
	37	1199.99	1198 -	1203	1199.94	1.97E+01	19.29	5.66E+01	3.04
	38	1238.06	1236 -	1240	1238.00	2.15E+01	18.26	5.50E+01	2.06
	39	1352.52	1350 -	1355	1352.41	1.78E+01	9.90	4.50E+00	2.25
	40	1378.23	1374 -	1384	1378.12	2.83E+01	20.93	4.15E+01	2.62

Analysis Report for 1507092-05

DUPLICATE 3

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	1460.99	1456 -	1467	1460.85	6.45E+02	51.47	1.16E+01	2.25
m	42	1464.68	1456 -	1467	1464.54	1.36E+01	26.44	2.44E-01	2.66
	43	1510.31	1505 -	1516	1510.15	1.90E+01	13.11	1.20E+01	8.20
	44	1621.42	1615 -	1627	1621.22	2.20E+01	17.58	2.60E+01	8.00
	45	1699.55	1694 -	1703	1699.32	1.25E+01	10.86	9.06E+00	1.75
	46	1729.64	1725 -	1734	1729.40	1.40E+01	14.00	2.00E+01	3.08
	47	1764.49	1759 -	1767	1764.24	6.59E+01	18.78	1.41E+01	2.42
	48	1825.55	1822 -	1828	1825.27	7.44E+00	6.95	3.11E+00	1.27
	49	1846.36	1842 -	1851	1846.07	1.53E+01	12.92	1.55E+01	2.73
	50	1880.73	1878 -	1882	1880.43	7.00E+00	5.29	0.00E+00	1.00
	51	2065.83	2063 -	2068	2065.46	5.29E+00	6.08	3.43E+00	2.15
	52	2096.38	2092 -	2098	2096.00	6.00E+00	4.90	0.00E+00	2.88
	53	2103.53	2099 -	2107	2103.15	2.00E+01	8.94	0.00E+00	3.70
	54	2117.14	2113 -	2120	2116.75	1.23E+01	8.49	3.50E+00	5.34
	55	2203.57	2199 -	2207	2203.15	2.00E+01	8.94	0.00E+00	1.18
	56	2253.73	2249 -	2256	2253.29	7.00E+00	5.29	0.00E+00	1.98
	57	2446.39	2442 -	2448	2445.88	8.00E+00	5.66	0.00E+00	2.92
	58	2614.15	2609 -	2618	2613.57	9.33E+01	20.22	5.40E+00	2.90

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:08:23AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	74.94	73 -	83	3.21E+02	86.04	1.23E+03	5.77E+01
m	2	77.51	73 -	83	5.37E+02	92.84	1.16E+03	5.60E+01
m	3	87.80	83 -	97	1.95E+02	58.21	6.45E+02	4.17E+01
	4	185.85	182 -	190	2.15E+02	76.96	7.80E+02	5.85E+01
	5	209.86	207 -	213	7.56E+01	61.43	6.21E+02	4.84E+01
M	6	231.41	230 -	247	5.09E+01	26.80	1.80E+02	2.21E+01
m	7	238.83	230 -	247	7.07E+02	64.67	3.00E+02	2.85E+01
m	8	241.80	230 -	247	2.00E+02	73.88	4.20E+02	3.37E+01
	9	258.25	255 -	262	4.35E+01	53.03	4.39E+02	4.22E+01
M	10	295.33	292 -	303	3.05E+02	49.75	2.55E+02	2.63E+01

Analysis Report for 1507092-05

DUPLICATE 3

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	11	299.87	292 -	303	9.66E+01	45.76	3.30E+02	2.99E+01
	12	327.85	325 -	331	4.17E+01	43.06	3.05E+02	3.38E+01
	13	338.79	334 -	344	1.76E+02	62.20	4.19E+02	4.63E+01
M	14	347.29	346 -	360	2.61E+01	13.71	4.07E+01	1.05E+01
m	15	351.99	346 -	360	5.25E+02	51.82	1.31E+02	1.88E+01
	16	438.79	436 -	442	3.91E+01	31.61	1.52E+02	2.39E+01
	17	511.17	506 -	516	1.85E+02	47.97	2.07E+02	3.25E+01
	18	549.54	547 -	554	2.44E+01	29.80	1.31E+02	2.31E+01
M	19	579.93	579 -	593	1.41E+01	10.95	3.35E+01	9.52E+00
m	20	583.20	579 -	593	2.47E+02	36.77	8.85E+01	1.55E+01
	21	609.34	604 -	614	3.89E+02	56.62	2.20E+02	3.34E+01
	22	676.86	674 -	681	2.78E+01	25.38	9.03E+01	1.90E+01
	23	727.60	724 -	733	5.30E+01	37.18	1.60E+02	2.81E+01
	24	755.38	751 -	759	3.36E+01	30.31	1.19E+02	2.30E+01
	25	794.54	792 -	798	3.17E+01	22.74	7.25E+01	1.62E+01
	26	822.28	819 -	826	3.19E+01	22.18	6.22E+01	1.57E+01
	27	841.27	839 -	844	2.08E+01	19.16	5.64E+01	1.38E+01
	28	911.32	905 -	917	1.48E+02	45.40	1.65E+02	3.58E+01
	29	933.95	931 -	937	1.84E+01	23.29	8.12E+01	1.78E+01
	30	948.75	944 -	954	3.33E+01	30.68	1.01E+02	2.34E+01
	31	969.29	966 -	972	6.64E+01	31.59	1.27E+02	2.22E+01
	32	1023.72	1019 -	1029	2.06E+01	26.49	8.29E+01	2.05E+01
M	33	1116.45	1114 -	1124	1.48E+01	17.07	5.07E+01	1.17E+01
m	34	1120.43	1114 -	1124	8.14E+01	27.15	7.42E+01	1.42E+01
	35	1172.60	1170 -	1175	1.98E+01	14.59	2.65E+01	9.51E+00
	36	1183.36	1179 -	1187	3.26E+01	23.66	6.28E+01	8.80E+00
	37	1199.99	1198 -	1203	1.97E+01	19.29	5.66E+01	1.41E+01
	38	1238.06	1236 -	1240	2.15E+01	18.26	5.50E+01	1.29E+01
	39	1352.52	1350 -	1355	1.78E+01	9.90	4.50E+00	4.27E+00
	40	1378.23	1374 -	1384	2.83E+01	20.93	4.15E+01	1.48E+01
M	41	1460.99	1456 -	1467	6.45E+02	51.47	1.16E+01	5.61E+00
m	42	1464.68	1456 -	1467	1.36E+01	26.44	2.44E-01	8.11E-01
	43	1510.31	1505 -	1516	1.90E+01	13.11	1.20E+01	8.05E+00
	44	1621.42	1615 -	1627	2.20E+01	17.58	2.60E+01	1.22E+01
	45	1699.55	1694 -	1703	1.25E+01	10.86	9.06E+00	6.78E+00
	46	1729.64	1725 -	1734	1.40E+01	14.00	2.00E+01	9.73E+00
	47	1764.49	1759 -	1767	6.59E+01	18.78	1.41E+01	7.75E+00
	48	1825.55	1822 -	1828	7.44E+00	6.95	3.11E+00	3.53E+00
	49	1846.36	1842 -	1851	1.53E+01	12.92	1.55E+01	8.46E+00
	50	1880.73	1878 -	1882	7.00E+00	5.29	0.00E+00	0.00E+00
	51	2065.83	2063 -	2068	5.29E+00	6.08	3.43E+00	3.27E+00
	52	2096.38	2092 -	2098	6.00E+00	4.90	0.00E+00	0.00E+00
	53	2103.53	2099 -	2107	2.00E+01	8.94	0.00E+00	0.00E+00
	54	2117.14	2113 -	2120	1.23E+01	8.49	3.50E+00	3.94E+00
	55	2203.57	2199 -	2207	2.00E+01	8.94	0.00E+00	0.00E+00
	56	2253.73	2249 -	2256	7.00E+00	5.29	0.00E+00	0.00E+00
	57	2446.39	2442 -	2448	8.00E+00	5.66	0.00E+00	0.00E+00
	58	2614.15	2609 -	2618	9.33E+01	20.22	5.40E+00	4.92E+00

Analysis Report for 1507092-05

DUPLICATE 3

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/6/2015 7:08:23AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	74.94	73 -	83	75.28	3.21E+02	86.04	1.23E+03	AM-243
m	2	77.51	73 -	83	77.85	5.37E+02	92.84	1.16E+03	TI-44
m	3	87.80	83 -	97	88.13	1.95E+02	58.21	6.45E+02	SN-126
									CD-109
									LU-176
	4	185.85	182 -	190	186.16	2.15E+02	76.96	7.80E+02	RA-226
	5	209.86	207 -	213	210.16	7.56E+01	61.43	6.21E+02	CM-243
									GA-67
M	6	231.41	230 -	247	231.70	5.09E+01	26.80	1.80E+02	.....
m	7	238.83	230 -	247	239.11	7.07E+02	64.67	3.00E+02	PB-212
m	8	241.80	230 -	247	242.09	2.00E+02	73.88	4.20E+02	RA-224
	9	258.25	255 -	262	258.53	4.35E+01	53.03	4.39E+02	.....
M	10	295.33	292 -	303	295.60	3.05E+02	49.75	2.55E+02	PB-214
m	11	299.87	292 -	303	300.14	9.66E+01	45.76	3.30E+02	BI-210M
									PB-212
									GA-67
	12	327.85	325 -	331	328.11	4.17E+01	43.06	3.05E+02	LA-140
	13	338.79	334 -	344	339.04	1.76E+02	62.20	4.19E+02	AC-228
M	14	347.29	346 -	360	347.54	2.61E+01	13.71	4.07E+01	.....
m	15	351.99	346 -	360	352.24	5.25E+02	51.82	1.31E+02	PB-214
	16	438.79	436 -	442	439.01	3.91E+01	31.61	1.52E+02	.....
	17	511.17	506 -	516	511.36	1.85E+02	47.97	2.07E+02	.....
	18	549.54	547 -	554	549.72	2.44E+01	29.80	1.31E+02	.....
M	19	579.93	579 -	593	580.10	1.41E+01	10.95	3.35E+01	.....
m	20	583.20	579 -	593	583.37	2.47E+02	36.77	8.85E+01	TL-208
	21	609.34	604 -	614	609.50	3.89E+02	56.62	2.20E+02	BI-214
	22	676.86	674 -	681	676.99	2.78E+01	25.38	9.03E+01	AG-110M
	23	727.60	724 -	733	727.72	5.30E+01	37.18	1.60E+02	BI-212
	24	755.38	751 -	759	755.49	3.36E+01	30.31	1.19E+02	.....
	25	794.54	792 -	798	794.64	3.17E+01	22.74	7.25E+01	.....

Analysis Report for 1507092-05

DUPLICATE 3

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	26	822.28	819 -	826	822.36	3.19E+01	22.18	6.22E+01	.....
	27	841.27	839 -	844	841.35	2.08E+01	19.16	5.64E+01	.....
	28	911.32	905 -	917	911.38	1.48E+02	45.40	1.65E+02	AC-228
									LU-172
	29	933.95	931 -	937	934.00	1.84E+01	23.29	8.12E+01	.....
	30	948.75	944 -	954	948.79	3.33E+01	30.68	1.01E+02	.....
	31	969.29	966 -	972	969.32	6.64E+01	31.59	1.27E+02	AC-228
	32	1023.72	1019 -	1029	1023.73	2.06E+01	26.49	8.29E+01	.....
M	33	1116.45	1114 -	1124	1116.43	1.48E+01	17.07	5.07E+01	ZN-65
m	34	1120.43	1114 -	1124	1120.41	8.14E+01	27.15	7.42E+01	SC-46
									BI-214
									TA-182
	35	1172.60	1170 -	1175	1172.56	1.98E+01	14.59	2.65E+01	CO-60
	36	1183.36	1179 -	1187	1183.32	3.26E+01	23.66	6.28E+01	.....
	37	1199.99	1198 -	1203	1199.94	1.97E+01	19.29	5.66E+01	.....
	38	1238.06	1236 -	1240	1238.00	2.15E+01	18.26	5.50E+01	CO-56
	39	1352.52	1350 -	1355	1352.41	1.78E+01	9.90	4.50E+00	.....
	40	1378.23	1374 -	1384	1378.12	2.83E+01	20.93	4.15E+01	.....
M	41	1460.99	1456 -	1467	1460.85	6.45E+02	51.47	1.16E+01	K-40
m	42	1464.68	1456 -	1467	1464.54	1.36E+01	26.44	2.44E-01	.....
	43	1510.31	1505 -	1516	1510.15	1.90E+01	13.11	1.20E+01	.....
	44	1621.42	1615 -	1627	1621.22	2.20E+01	17.58	2.60E+01	BI-212
	45	1699.55	1694 -	1703	1699.32	1.25E+01	10.86	9.06E+00	.....
	46	1729.64	1725 -	1734	1729.40	1.40E+01	14.00	2.00E+01	.....
	47	1764.49	1759 -	1767	1764.24	6.59E+01	18.78	1.41E+01	BI-214
	48	1825.55	1822 -	1828	1825.27	7.44E+00	6.95	3.11E+00	.....
	49	1846.36	1842 -	1851	1846.07	1.53E+01	12.92	1.55E+01	.....
	50	1880.73	1878 -	1882	1880.43	7.00E+00	5.29	0.00E+00	.....
	51	2065.83	2063 -	2068	2065.46	5.29E+00	6.08	3.43E+00	.....
	52	2096.38	2092 -	2098	2096.00	6.00E+00	4.90	0.00E+00	.....
	53	2103.53	2099 -	2107	2103.15	2.00E+01	8.94	0.00E+00	.....
	54	2117.14	2113 -	2120	2116.75	1.23E+01	8.49	3.50E+00	.....
	55	2203.57	2199 -	2207	2203.15	2.00E+01	8.94	0.00E+00	BI-214
	56	2253.73	2249 -	2256	2253.29	7.00E+00	5.29	0.00E+00	.....
	57	2446.39	2442 -	2448	2445.88	8.00E+00	5.66	0.00E+00	.....
	58	2614.15	2609 -	2618	2613.57	9.33E+01	20.22	5.40E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/6/2015 7:08:23AM

Analysis Report for 1507092-05

DUPLICATE 3

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	74.94	3.21E+02	86.04	2.75E-02	2.30E-03
m	2	77.51	5.37E+02	92.84	2.78E-02	2.39E-03
m	3	87.80	1.95E+02	58.21	2.85E-02	2.73E-03
	4	185.85	2.15E+02	76.96	2.24E-02	2.03E-03
	5	209.86	7.56E+01	61.43	2.08E-02	1.85E-03
M	6	231.41	5.09E+01	26.80	1.96E-02	1.69E-03
m	7	238.83	7.07E+02	64.67	1.92E-02	1.64E-03
m	8	241.80	2.00E+02	73.88	1.91E-02	1.62E-03
	9	258.25	4.35E+01	53.03	1.83E-02	1.49E-03
M	10	295.33	3.05E+02	49.75	1.67E-02	1.31E-03
m	11	299.87	9.66E+01	45.76	1.65E-02	1.30E-03
	12	327.85	4.17E+01	43.06	1.55E-02	1.24E-03
	13	338.79	1.76E+02	62.20	1.52E-02	1.22E-03
M	14	347.29	2.61E+01	13.71	1.49E-02	1.20E-03
m	15	351.99	5.25E+02	51.82	1.48E-02	1.19E-03
	16	438.79	3.91E+01	31.61	1.26E-02	1.07E-03
	17	511.17	1.85E+02	47.97	1.12E-02	9.90E-04
	18	549.54	2.44E+01	29.80	1.06E-02	9.50E-04
M	19	579.93	1.41E+01	10.95	1.02E-02	9.19E-04
m	20	583.20	2.47E+02	36.77	1.02E-02	9.15E-04
	21	609.34	3.89E+02	56.62	9.83E-03	8.88E-04
	22	676.86	2.78E+01	25.38	9.05E-03	8.21E-04
	23	727.60	5.30E+01	37.18	8.55E-03	7.75E-04
	24	755.38	3.36E+01	30.31	8.30E-03	7.50E-04
	25	794.54	3.17E+01	22.74	7.97E-03	7.15E-04
	26	822.28	3.19E+01	22.18	7.76E-03	6.90E-04
	27	841.27	2.08E+01	19.16	7.62E-03	6.73E-04
	28	911.32	1.48E+02	45.40	7.15E-03	6.15E-04
	29	933.95	1.84E+01	23.29	7.01E-03	6.04E-04
	30	948.75	3.33E+01	30.68	6.92E-03	5.96E-04
	31	969.29	6.64E+01	31.59	6.80E-03	5.85E-04
	32	1023.72	2.06E+01	26.49	6.51E-03	5.57E-04
M	33	1116.45	1.48E+01	17.07	6.08E-03	5.09E-04
m	34	1120.43	8.14E+01	27.15	6.07E-03	5.07E-04
	35	1172.60	1.98E+01	14.59	5.85E-03	4.79E-04
	36	1183.36	3.26E+01	23.66	5.81E-03	4.77E-04
	37	1199.99	1.97E+01	19.29	5.75E-03	4.74E-04
	38	1238.06	2.15E+01	18.26	5.61E-03	4.68E-04
	39	1352.52	1.78E+01	9.90	5.25E-03	4.46E-04
	40	1378.23	2.83E+01	20.93	5.18E-03	4.40E-04
M	41	1460.99	6.45E+02	51.47	4.97E-03	4.19E-04
m	42	1464.68	1.36E+01	26.44	4.96E-03	4.18E-04
	43	1510.31	1.90E+01	13.11	4.86E-03	4.07E-04
	44	1621.42	2.20E+01	17.58	4.63E-03	3.79E-04
	45	1699.55	1.25E+01	10.86	4.50E-03	3.60E-04
	46	1729.64	1.40E+01	14.00	4.45E-03	3.52E-04
	47	1764.49	6.59E+01	18.78	4.40E-03	3.44E-04
	48	1825.55	7.44E+00	6.95	4.31E-03	3.28E-04
	49	1846.36	1.53E+01	12.92	4.28E-03	3.26E-04
	50	1880.73	7.00E+00	5.29	4.24E-03	3.26E-04

Analysis Report for 1507092-05

DUPLICATE 3

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
51	2065.83	5.29E+00	6.08	4.05E-03	3.26E-04
52	2096.38	6.00E+00	4.90	4.03E-03	3.26E-04
53	2103.53	2.00E+01	8.94	4.02E-03	3.26E-04
54	2117.14	1.23E+01	8.49	4.01E-03	3.26E-04
55	2203.57	2.00E+01	8.94	3.95E-03	3.26E-04
56	2253.73	7.00E+00	5.29	3.92E-03	3.26E-04
57	2446.39	8.00E+00	5.66	3.83E-03	3.26E-04
58	2614.15	9.33E+01	20.22	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/6/2015 7:08:23AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	74.94	3.21E+02	86.04			3.21E+02	8.60E+01
m	2	77.51	5.37E+02	92.84	1.37E+01	4.21E+00	5.24E+02	9.29E+01
m	3	87.80	1.95E+02	58.21			1.95E+02	5.82E+01
	4	185.85	2.15E+02	76.96	6.17E+01	7.27E+00	1.53E+02	7.73E+01
	5	209.86	7.56E+01	61.43			7.56E+01	6.14E+01
M	6	231.41	5.09E+01	26.80			5.09E+01	2.68E+01
m	7	238.83	7.07E+02	64.67	1.90E+01	5.64E+00	6.88E+02	6.49E+01
m	8	241.80	2.00E+02	73.88			2.00E+02	7.39E+01
	9	258.25	4.35E+01	53.03			4.35E+01	5.30E+01
M	10	295.33	3.05E+02	49.75	3.06E+00	4.82E+00	3.01E+02	5.00E+01
m	11	299.87	9.66E+01	45.76			9.66E+01	4.58E+01
	12	327.85	4.17E+01	43.06			4.17E+01	4.31E+01
	13	338.79	1.76E+02	62.20			1.76E+02	6.22E+01
M	14	347.29	2.61E+01	13.71			2.61E+01	1.37E+01
m	15	351.99	5.25E+02	51.82	1.06E+01	4.49E+00	5.15E+02	5.20E+01
	16	438.79	3.91E+01	31.61			3.91E+01	3.16E+01
	17	511.17	1.85E+02	47.97	8.80E+01	5.43E+00	9.66E+01	4.83E+01
	18	549.54	2.44E+01	29.80			2.44E+01	2.98E+01
M	19	579.93	1.41E+01	10.95			1.41E+01	1.10E+01
m	20	583.20	2.47E+02	36.77	3.96E+00	4.13E+00	2.43E+02	3.70E+01
	21	609.34	3.89E+02	56.62	8.00E+00	4.15E+00	3.81E+02	5.68E+01
	22	676.86	2.78E+01	25.38			2.78E+01	2.54E+01

Analysis Report for 1507092-05

DUPLICATE 3

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	23	727.60	5.30E+01	37.18	2.83E+00	2.91E+00	5.01E+01	3.73E+01
	24	755.38	3.36E+01	30.31			3.36E+01	3.03E+01
	25	794.54	3.17E+01	22.74			3.17E+01	2.27E+01
	26	822.28	3.19E+01	22.18			3.19E+01	2.22E+01
	27	841.27	2.08E+01	19.16			2.08E+01	1.92E+01
	28	911.32	1.48E+02	45.40	3.29E+00	3.12E+00	1.44E+02	4.55E+01
	29	933.95	1.84E+01	23.29			1.84E+01	2.33E+01
	30	948.75	3.33E+01	30.68			3.33E+01	3.07E+01
	31	969.29	6.64E+01	31.59			6.64E+01	3.16E+01
	32	1023.72	2.06E+01	26.49			2.06E+01	2.65E+01
M	33	1116.45	1.48E+01	17.07			1.48E+01	1.71E+01
m	34	1120.43	8.14E+01	27.15			8.14E+01	2.72E+01
	35	1172.60	1.98E+01	14.59			1.98E+01	1.46E+01
	36	1183.36	3.26E+01	23.66			3.26E+01	2.37E+01
	37	1199.99	1.97E+01	19.29			1.97E+01	1.93E+01
	38	1238.06	2.15E+01	18.26			2.15E+01	1.83E+01
	39	1352.52	1.78E+01	9.90			1.78E+01	9.90E+00
	40	1378.23	2.83E+01	20.93			2.83E+01	2.09E+01
M	41	1460.99	6.45E+02	51.47	5.51E+00	2.16E+00	6.39E+02	5.15E+01
m	42	1464.68	1.36E+01	26.44			1.36E+01	2.64E+01
	43	1510.31	1.90E+01	13.11			1.90E+01	1.31E+01
	44	1621.42	2.20E+01	17.58			2.20E+01	1.76E+01
	45	1699.55	1.25E+01	10.86			1.25E+01	1.09E+01
	46	1729.64	1.40E+01	14.00			1.40E+01	1.40E+01
	47	1764.49	6.59E+01	18.78	1.06E+00	1.86E+00	6.49E+01	1.89E+01
	48	1825.55	7.44E+00	6.95			7.44E+00	6.95E+00
	49	1846.36	1.53E+01	12.92			1.53E+01	1.29E+01
	50	1880.73	7.00E+00	5.29			7.00E+00	5.29E+00
	51	2065.83	5.29E+00	6.08			5.29E+00	6.08E+00
	52	2096.38	6.00E+00	4.90			6.00E+00	4.90E+00
	53	2103.53	2.00E+01	8.94			2.00E+01	8.94E+00
	54	2117.14	1.23E+01	8.49			1.23E+01	8.49E+00
	55	2203.57	2.00E+01	8.94			2.00E+01	8.94E+00
	56	2253.73	7.00E+00	5.29			7.00E+00	5.29E+00
	57	2446.39	8.00E+00	5.66			8.00E+00	5.66E+00
	58	2614.15	9.33E+01	20.22	3.94E+00	1.34E+00	8.94E+01	2.03E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-05

DUPLICATE 3

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/6/2015 7:08:23AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024755.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	74.94	3.21E+02	86.04			3.21E+02	8.60E+01
m	2	77.51	5.37E+02	92.84	1.37E+01	4.21E+00	5.24E+02	9.29E+01
m	3	87.80	1.95E+02	58.21			1.95E+02	5.82E+01
	4	185.85	2.15E+02	76.96	6.17E+01	7.27E+00	1.53E+02	7.73E+01
	5	209.86	7.56E+01	61.43			7.56E+01	6.14E+01
M	6	231.41	5.09E+01	26.80			5.09E+01	2.68E+01
m	7	238.83	7.07E+02	64.67	1.90E+01	5.64E+00	6.88E+02	6.49E+01
m	8	241.80	2.00E+02	73.88			2.00E+02	7.39E+01
	9	258.25	4.35E+01	53.03			4.35E+01	5.30E+01
M	10	295.33	3.05E+02	49.75	3.06E+00	4.82E+00	3.01E+02	5.00E+01
m	11	299.87	9.66E+01	45.76			9.66E+01	4.58E+01
	12	327.85	4.17E+01	43.06			4.17E+01	4.31E+01
	13	338.79	1.76E+02	62.20			1.76E+02	6.22E+01
M	14	347.29	2.61E+01	13.71			2.61E+01	1.37E+01
m	15	351.99	5.25E+02	51.82	1.06E+01	4.49E+00	5.15E+02	5.20E+01
	16	438.79	3.91E+01	31.61			3.91E+01	3.16E+01
	17	511.17	1.85E+02	47.97	8.80E+01	5.43E+00	9.66E+01	4.83E+01
	18	549.54	2.44E+01	29.80			2.44E+01	2.98E+01
M	19	579.93	1.41E+01	10.95			1.41E+01	1.10E+01
m	20	583.20	2.47E+02	36.77	3.96E+00	4.13E+00	2.43E+02	3.70E+01
	21	609.34	3.89E+02	56.62	8.00E+00	4.15E+00	3.81E+02	5.68E+01
	22	676.86	2.78E+01	25.38			2.78E+01	2.54E+01
	23	727.60	5.30E+01	37.18	2.83E+00	2.91E+00	5.01E+01	3.73E+01
	24	755.38	3.36E+01	30.31			3.36E+01	3.03E+01
	25	794.54	3.17E+01	22.74			3.17E+01	2.27E+01
	26	822.28	3.19E+01	22.18			3.19E+01	2.22E+01
	27	841.27	2.08E+01	19.16			2.08E+01	1.92E+01
	28	911.32	1.48E+02	45.40	3.29E+00	3.12E+00	1.44E+02	4.55E+01
	29	933.95	1.84E+01	23.29			1.84E+01	2.33E+01
	30	948.75	3.33E+01	30.68			3.33E+01	3.07E+01
	31	969.29	6.64E+01	31.59			6.64E+01	3.16E+01
	32	1023.72	2.06E+01	26.49			2.06E+01	2.65E+01
M	33	1116.45	1.48E+01	17.07			1.48E+01	1.71E+01
m	34	1120.43	8.14E+01	27.15			8.14E+01	2.72E+01
	35	1172.60	1.98E+01	14.59			1.98E+01	1.46E+01
	36	1183.36	3.26E+01	23.66			3.26E+01	2.37E+01
	37	1199.99	1.97E+01	19.29			1.97E+01	1.93E+01
	38	1238.06	2.15E+01	18.26			2.15E+01	1.83E+01
	39	1352.52	1.78E+01	9.90			1.78E+01	9.90E+00
	40	1378.23	2.83E+01	20.93			2.83E+01	2.09E+01
M	41	1460.99	6.45E+02	51.47	5.51E+00	2.16E+00	6.39E+02	5.15E+01

Analysis Report for 1507092-05

DUPLICATE 3

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	42	1464.68	1.36E+01	26.44			1.36E+01	2.64E+01
	43	1510.31	1.90E+01	13.11			1.90E+01	1.31E+01
	44	1621.42	2.20E+01	17.58			2.20E+01	1.76E+01
	45	1699.55	1.25E+01	10.86			1.25E+01	1.09E+01
	46	1729.64	1.40E+01	14.00			1.40E+01	1.40E+01
	47	1764.49	6.59E+01	18.78	1.06E+00	1.86E+00	6.49E+01	1.89E+01
	48	1825.55	7.44E+00	6.95			7.44E+00	6.95E+00
	49	1846.36	1.53E+01	12.92			1.53E+01	1.29E+01
	50	1880.73	7.00E+00	5.29			7.00E+00	5.29E+00
	51	2065.83	5.29E+00	6.08			5.29E+00	6.08E+00
	52	2096.38	6.00E+00	4.90			6.00E+00	4.90E+00
	53	2103.53	2.00E+01	8.94			2.00E+01	8.94E+00
	54	2117.14	1.23E+01	8.49			1.23E+01	8.49E+00
	55	2203.57	2.00E+01	8.94			2.00E+01	8.94E+00
	56	2253.73	7.00E+00	5.29			7.00E+00	5.29E+00
	57	2446.39	8.00E+00	5.66			8.00E+00	5.66E+00
	58	2614.15	9.33E+01	20.22	3.94E+00	1.34E+00	8.94E+01	2.03E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.995	1460.81	*	10.67	1.76E+01	2.09E+00
ZN-65	0.871	1115.52	*	50.75	7.59E-02	8.80E-02
CD-109	0.991	88.03	*	3.72	2.81E+00	8.96E-01
SN-126	0.992	87.57	*	37.00	2.71E-01	8.48E-02
TL-208	0.869	583.14	*	30.22	1.16E+00	2.05E-01
		860.37		4.48		
		2614.66	*	35.85	9.61E-01	2.33E-01
BI-212	0.957	727.17	*	11.80	7.26E-01	5.44E-01
		1620.62	*	2.75	2.53E+00	2.03E+00
PB-212	0.994	238.63	*	44.60	1.17E+00	1.49E-01
		300.09	*	3.41	2.51E+00	1.20E+00
BI-214	0.995	609.31	*	46.30	1.22E+00	2.13E-01
		1120.29	*	15.10	1.30E+00	4.47E-01
		1764.49	*	15.80	1.37E+00	4.11E-01

Analysis Report for 1507092-05

DUPLICATE 3

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.995	2204.22	*	4.98	1.49E+00	6.76E-01
PB-214	0.999	295.21	*	19.19	1.38E+00	2.52E-01
		351.92	*	37.19	1.37E+00	1.77E-01
RA-224	0.898	240.98	*	3.95	3.88E+00	1.47E+00
RA-226	0.979	186.21	*	3.28	3.05E+00	5.80E+00
AC-228	0.986	338.32	*	11.40	1.48E+00	5.39E-01
		911.07	*	27.70	1.07E+00	3.48E-01
		969.11	*	16.60	8.60E-01	4.16E-01
AM-243	0.989	74.67	*	66.00	2.59E-01	7.27E-02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:08:23AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	2	77.51	1.45442E-01	8.87		
	5	209.86	2.09967E-02	40.63	Tol.	GA-67 CM-243
M	6	231.41	1.41399E-02	26.32		
	9	258.25	1.20923E-02	60.91		
	12	327.85	1.15793E-02	51.65	Tol.	LA-140
M	14	347.29	7.25780E-03	26.24		
	16	438.79	1.08720E-02	40.38	D-Esc	
	17	511.17	2.68293E-02	24.99		
	18	549.54	6.77006E-03	61.13		
M	19	579.93	3.92686E-03	38.74	Sum	
	22	676.86	7.73592E-03	45.56	Sum	
	24	755.38	9.32049E-03	45.17		
	25	794.54	8.81536E-03	35.82	Sum	
	26	822.28	8.85803E-03	34.78	Sum	
	27	841.27	5.78231E-03	46.01		
	29	933.95	5.11535E-03	63.23		
	30	948.75	9.24603E-03	46.08	Sum	
	32	1023.72	5.71237E-03	64.41	Sum	
	35	1172.60	5.48822E-03	36.93	Tol.	CO-60

Analysis Report for 1507092-05
DUPLICATE 3

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	36	1183.36	9.05599E-03	36.29		
	37	1199.99	5.47454E-03	48.93		
	38	1238.06	5.97222E-03	42.47	Tol.	CO-56
	39	1352.52	4.93056E-03	27.89		
	40	1378.23	7.84864E-03	37.03		
m	42	1464.68	3.78593E-03	96.99		
	43	1510.31	5.27778E-03	34.51		
	45	1699.55	3.46405E-03	43.55	Sum	
	46	1729.64	3.88889E-03	50.00	Sum	
	48	1825.55	2.06790E-03	46.65		
	49	1846.36	4.23913E-03	42.34		
	50	1880.73	1.94444E-03	37.80	Sum	
	51	2065.83	1.46825E-03	57.54		
	52	2096.38	1.66667E-03	40.82		
	53	2103.53	5.55556E-03	22.36	S-Esc	
	54	2117.14	3.40278E-03	34.63	Sum	
	56	2253.73	1.94444E-03	37.80		
	57	2446.39	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.76E+01	2.09E+00
ZN-65	0.87	1115.52	*	50.75	7.59E-02	8.80E-02
CD-109	0.99	88.03	*	3.72	2.81E+00	8.96E-01
SN-126	0.99	87.57	*	37.00	2.71E-01	8.48E-02
TL-208	0.86	583.14	*	30.22	1.16E+00	2.05E-01
		860.37		4.48		
		2614.66	*	35.85	9.61E-01	2.33E-01
BI-212	0.95	727.17	*	11.80	7.26E-01	5.44E-01
		1620.62	*	2.75	2.53E+00	2.03E+00
PB-212	0.99	238.63	*	44.60	1.17E+00	1.49E-01

Analysis Report for 1507092-05

DUPLICATE 3

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-212	0.99	300.09	*	3.41	2.51E+00	1.20E+00
BI-214	0.99	609.31	*	46.30	1.22E+00	2.13E-01
		1120.29	*	15.10	1.30E+00	4.47E-01
		1764.49	*	15.80	1.37E+00	4.11E-01
		2204.22	*	4.98	1.49E+00	6.76E-01
PB-214	0.99	295.21	*	19.19	1.38E+00	2.52E-01
		351.92	*	37.19	1.37E+00	1.77E-01
RA-224	0.89	240.98	*	3.95	3.88E+00	1.47E+00
RA-226	0.97	186.21	*	3.28	3.05E+00	5.80E+00
AC-228	0.98	338.32	*	11.40	1.48E+00	5.39E-01
		911.07	*	27.70	1.07E+00	3.48E-01
		969.11	*	16.60	8.60E-01	4.16E-01
AM-243	0.98	74.67	*	66.00	2.59E-01	7.27E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.995	1.76E+01	2.09E+00	
	ZN-65	0.871	7.59E-02	8.80E-02	
?	CD-109	0.991	2.81E+00	8.96E-01	
?	SN-126	0.992	2.71E-01	8.48E-02	
	TL-208	0.869	1.07E+00	1.54E-01	
	BI-212	0.957	8.47E-01	5.26E-01	
	PB-212	0.994	1.19E+00	1.48E-01	
	BI-214	0.995	1.28E+00	1.69E-01	
	PB-214	0.999	1.37E+00	1.45E-01	
	RA-224	0.898	3.88E+00	1.47E+00	
	RA-226	0.979	3.05E+00	5.80E+00	
	AC-228	0.986	1.08E+00	2.39E-01	
	AM-243	0.989	2.59E-01	7.27E-02	

Analysis Report for 1507092-05

DUPLICATE 3

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507092-05

DUPLICATE 3

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:08:23AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	2	77.51	1.45442E-01	8.87		
	5	209.86	2.09967E-02	40.63	Tol.	GA-67 CM-243
M	6	231.41	1.41399E-02	26.32		
	9	258.25	1.20923E-02	60.91		
	12	327.85	1.15793E-02	51.65	Tol.	LA-140
M	14	347.29	7.25780E-03	26.24		
	16	438.79	1.08720E-02	40.38	D-Esc	
	17	511.17	2.68293E-02	24.99		
	18	549.54	6.77006E-03	61.13		
M	19	579.93	3.92686E-03	38.74	Sum	
	22	676.86	7.73592E-03	45.56	Sum	
	24	755.38	9.32049E-03	45.17		
	25	794.54	8.81536E-03	35.82	Sum	
	26	822.28	8.85803E-03	34.78	Sum	
	27	841.27	5.78231E-03	46.01		
	29	933.95	5.11535E-03	63.23		
	30	948.75	9.24603E-03	46.08	Sum	
	32	1023.72	5.71237E-03	64.41	Sum	
	35	1172.60	5.48822E-03	36.93	Tol.	CO-60
	36	1183.36	9.05599E-03	36.29		
	37	1199.99	5.47454E-03	48.93		
	38	1238.06	5.97222E-03	42.47	Tol.	CO-56
	39	1352.52	4.93056E-03	27.89		
	40	1378.23	7.84864E-03	37.03		
m	42	1464.68	3.78593E-03	96.99		
	43	1510.31	5.27778E-03	34.51		
	45	1699.55	3.46405E-03	43.55	Sum	
	46	1729.64	3.88889E-03	50.00	Sum	
	48	1825.55	2.06790E-03	46.65		
	49	1846.36	4.23913E-03	42.34		
	50	1880.73	1.94444E-03	37.80	Sum	
	51	2065.83	1.46825E-03	57.54		
	52	2096.38	1.66667E-03	40.82		
	53	2103.53	5.55556E-03	22.36	S-Esc	

Analysis Report for 1507092-05

DUPLICATE 3

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
54	2117.14	3.40278E-03	34.63	Sum	
56	2253.73	1.94444E-03	37.80		
57	2446.39	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	2.74E-01	8.29E-01	8.29E-01
+	NA-22	1274.54		99.94	-1.36E-02	6.81E-02	6.81E-02
+	NA-24	1368.53		99.99	2.03E+12	2.99E+12	6.39E+12
		2754.09		99.86	-8.06E+11		2.99E+12
+	AL-26	1808.65		99.76	-2.11E-02	4.06E-02	4.06E-02
+	K-40	1460.81	*	10.67	1.76E+01	6.45E-01	6.45E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-4.27E-02	6.52E-02	6.52E-02
		78.34		96.00	2.25E-01		8.54E-02
+	SC-46	889.25		99.98	-4.00E-02	6.38E-02	6.38E-02
		1120.51		99.99	2.05E-01		1.64E-01
+	V-48	983.52		99.98	4.93E-02	2.45E-01	2.45E-01
		1312.10		97.50	-4.08E-02		2.63E-01
+	CR-51	320.08		9.83	-3.11E-01	9.74E-01	9.74E-01
+	MN-54	834.83		99.97	-2.14E-04	7.70E-02	7.70E-02
+	CO-56	846.75		99.96	-3.03E-02	8.00E-02	8.00E-02
		1037.75		14.03	-1.92E-01		6.31E-01
		1238.25		67.00	-1.57E-04		2.00E-01
		1771.40		15.51	-1.72E-01		4.40E-01
		2598.48		16.90	2.94E-02		4.41E-01
+	CO-57	122.06		85.51	-1.47E-02	5.37E-02	5.37E-02
		136.48		10.60	-3.53E-01		4.71E-01
+	CO-58	810.76		99.40	3.28E-02	9.64E-02	9.64E-02
+	FE-59	1099.22		56.50	-9.83E-02	2.26E-01	2.26E-01
		1291.56		43.20	-4.72E-04		2.79E-01
+	CO-60	1173.22		100.00	-1.44E-03	7.22E-02	7.63E-02

Analysis Report for 1507092-05

DUPLICATE 3

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CO-60	1332.49		100.00	-2.28E-02	7.22E-02	7.22E-02
+	ZN-65	1115.52	*	50.75	7.59E-02	2.43E-01	2.43E-01
+	GA-67	93.31		35.70	2.16E+02	8.61E+01	8.61E+01
		208.95		2.24	7.68E+02		1.21E+03
		300.22		16.00	-1.91E+02		1.77E+02
+	SE-75	121.11		16.70	2.07E-03	9.23E-02	3.04E-01
		136.00		59.20	2.85E-03		9.47E-02
		264.65		59.80	-8.03E-03		9.23E-02
		279.53		25.20	4.00E-02		2.45E-01
		400.65		11.40	-8.52E-02		5.05E-01
+	RB-82	776.52		13.00	-7.68E-01	1.10E+00	1.10E+00
+	RB-83	520.41		46.00	5.49E-02	1.66E-01	1.66E-01
		529.64		30.30	1.39E-02		2.51E-01
		552.65		16.40	-2.12E-02		4.42E-01
+	KR-85	513.99		0.43	2.85E+01	2.13E+01	2.13E+01
+	SR-85	513.99		99.27	1.69E-01	1.26E-01	1.26E-01
+	Y-88	898.02		93.40	-3.80E-02	6.56E-02	8.68E-02
		1836.01		99.38	-2.58E-03		6.56E-02
+	NB-93M	16.57		9.43	-1.49E+02	6.94E+01	6.94E+01
+	NB-94	702.63		100.00	1.66E-02	7.34E-02	7.67E-02
		871.10		100.00	3.81E-02		7.34E-02
+	NB-95	765.79		99.81	5.76E-02	1.42E-01	1.42E-01
+	NB-95M	235.69		25.00	-4.11E+02	6.33E+01	6.33E+01
+	ZR-95	724.18		43.70	1.85E-02	1.89E-01	2.55E-01
		756.72		55.30	6.96E-02		1.89E-01
+	MO-99	181.06		6.20	2.70E+02	7.45E+02	1.13E+03
		739.58		12.80	3.16E+02		7.45E+02
		778.00		4.50	-1.74E+03		2.02E+03
+	RU-103	497.08		89.00	2.43E-02	1.10E-01	1.10E-01
+	RU-106	621.84		9.80	3.23E-02	7.26E-01	7.26E-01
+	AG-108M	433.93		89.90	-1.79E-02	6.25E-02	6.25E-02
		614.37		90.40	-1.87E-02		7.43E-02
		722.95		90.50	5.20E-03		7.83E-02
+	CD-109	88.03	*	3.72	2.81E+00	3.26E+00	3.26E+00
+	AG-110M	657.75		93.14	-9.19E-04	7.44E-02	7.44E-02
		677.61		10.53	3.91E-01		6.83E-01
		706.67		16.46	-1.83E-01		4.70E-01
		763.93		21.98	-6.33E-02		3.57E-01
		884.67		71.63	-4.33E-02		8.65E-02
		1384.27		23.94	6.92E-02		2.88E-01
+	CD-113M	263.70		0.02	-2.50E+01	1.98E+02	1.98E+02
+	SN-113	255.12		1.93	3.47E-01	8.79E-02	2.99E+00
		391.69		64.90	-1.13E-02		8.79E-02
+	TE123M	159.00		84.10	-5.32E-02	6.47E-02	6.47E-02
+	SB-124	602.71		97.87	3.30E-02	9.85E-02	9.85E-02
		645.85		7.26	-3.13E-02		1.19E+00
		722.78		11.10	5.91E-02		8.90E-01
		1691.02		49.00	-1.54E-03		1.39E-01

Analysis Report for 1507092-05

DUPLICATE 3

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-125	35.49		6.49	-9.05E-01	3.03E+00	3.03E+00
+	SB-125	176.33		6.89	-4.03E-01	1.99E-01	6.90E-01
		427.89		29.33	-2.59E-02		1.99E-01
		463.38		10.35	2.63E-01		6.57E-01
		600.56		17.80	2.19E-01		3.84E-01
		635.90		11.32	3.92E-02		5.77E-01
+	SB-126	414.70		83.30	-1.98E-01	3.46E-01	3.64E-01
		666.33		99.60	-4.67E-03		3.46E-01
		695.00		99.60	-2.50E-02		3.56E-01
		720.50		53.80	-4.76E-03		6.38E-01
+	SN-126	87.57	*	37.00	2.71E-01	3.14E-01	3.14E-01
+	SB-127	473.00		25.00	-1.08E+01	3.14E+01	4.14E+01
		685.20		35.70	-6.43E+00		3.14E+01
		783.80		14.70	7.48E-02		8.70E+01
+	I-129	29.78		57.00	-4.90E-02	4.76E-01	4.76E-01
		33.60		13.20	-4.01E-01		1.27E+00
		39.58		7.52	-4.76E-01		1.45E+00
+	I-131	284.30		6.05	2.28E+00	6.85E-01	9.98E+00
		364.48		81.20	-1.44E-01		6.85E-01
		636.97		7.26	1.83E+00		1.05E+01
		722.89		1.80	3.15E+00		4.75E+01
+	TE-132	49.72		13.10	-4.84E+02	2.55E+01	2.53E+02
		228.16		88.00	-3.93E+00		2.55E+01
+	BA-133	81.00		33.00	-5.84E-01	8.94E-02	1.73E-01
		302.84		17.80	2.15E-02		3.02E-01
		356.01		60.00	-5.69E-01		8.94E-02
+	I-133	529.87		86.30	4.24E+07	7.64E+08	7.64E+08
+	XE-133	81.00		38.00	-2.30E+01	6.83E+00	6.83E+00
+	CS-134	563.23		8.38	4.47E-01	8.02E-02	8.08E-01
		569.32		15.43	-1.69E-01		4.02E-01
		604.70		97.60	5.23E-03		8.02E-02
		795.84		85.40	7.17E-02		9.43E-02
		801.93		8.73	1.70E-03		7.81E-01
+	CS-135	268.24		16.00	3.35E-01	3.55E-01	3.55E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	1.49E+00	2.99E-01	2.94E+00
		163.89		4.61	1.69E+00		5.09E+00
		176.55		13.56	-9.22E-01		1.58E+00
		273.65		12.66	-2.77E+00		1.74E+00
		340.57		48.50	7.59E-01		6.29E-01
		818.50		99.70	9.39E-03		2.99E-01
		1048.07		79.60	-9.25E-02		4.33E-01
		1235.34		19.70	-1.36E-02		2.38E+00
+	CS-137	661.65		85.12	2.04E-02	8.28E-02	8.28E-02
+	LA-138	788.74		34.00	5.82E-02	9.12E-02	2.03E-01
		1435.80		66.00	1.79E-02		9.12E-02
+	CE-139	165.85		80.35	7.75E-03	7.29E-02	7.29E-02

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DUPLICATE 3

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BA-140	162.64	6.70	8.64E-01	1.13E+00	3.61E+00
		304.84	4.50	1.73E+00		5.20E+00
		423.70	3.20	-1.56E+00		8.57E+00
		437.55	2.00	6.63E+00		1.45E+01
		537.32	25.00	-4.20E-01		1.13E+00
+	LA-140	328.77	20.50	3.92E-01	3.25E-01	1.30E+00
		487.03	45.50	-7.71E-02		5.99E-01
		815.85	23.50	-1.59E-01		1.21E+00
		1596.49	95.49	5.43E-02		3.25E-01
+	CE-141	145.44	48.40	3.44E-02	1.87E-01	1.87E-01
+	CE-143	57.36	11.80	-1.37E+05	4.06E+05	1.17E+06
		293.26	42.00	1.00E+06		4.06E+05
		664.55	5.20	6.06E+05		2.85E+06
+	CE-144	133.54	10.80	4.29E-01	4.85E-01	4.85E-01
+	PM-144	476.78	42.00	-2.80E-02	7.06E-02	1.45E-01
		618.01	98.60	-1.78E-02		7.06E-02
		696.49	99.49	-9.00E-03		7.68E-02
+	PM-145	36.85	21.70	4.31E-01	3.20E-01	6.01E-01
		37.36	39.70	7.01E-02		3.20E-01
		42.30	15.10	1.47E-02		6.10E-01
		72.40	2.31	1.13E+00		3.20E+00
+	PM-146	453.90	39.94	-7.79E-03	1.46E-01	1.46E-01
		735.90	14.01	1.54E-01		4.51E-01
		747.13	13.10	-5.20E-02		4.97E-01
+	ND-147	91.11	28.90	-3.22E+00	1.40E+00	1.40E+00
		531.02	13.10	-9.15E-01		2.83E+00
+	PM-149	285.90	3.10	1.47E+03	1.37E+04	1.37E+04
+	EU-152	121.78	20.50	-5.72E-02	2.09E-01	2.09E-01
		244.69	5.40	-1.34E-01		1.05E+00
		344.27	19.13	-1.13E-01		2.36E-01
		778.89	9.20	-4.13E-01		6.95E-01
		964.01	10.40	4.60E-01		9.26E-01
		1085.78	7.22	2.44E-01		1.05E+00
		1112.02	9.60	-1.62E-01		7.96E-01
		1407.95	14.94	-8.16E-02		4.21E-01
+	GD-153	97.43	31.30	1.50E-02	1.61E-01	1.61E-01
		103.18	22.20	7.42E-02		2.28E-01
+	EU-154	123.07	40.50	-1.21E-01	1.06E-01	1.06E-01
		723.30	19.70	2.40E-02		3.62E-01
		873.19	11.50	-2.63E-01		5.87E-01
		996.32	10.30	6.55E-02		6.90E-01
		1004.76	17.90	1.70E-01		4.26E-01
		1274.45	35.50	-3.77E-02		1.89E-01
+	EU-155	86.50	30.90	1.68E-02	2.06E-01	2.06E-01
		105.30	20.70	-4.90E-02		2.25E-01
+	EU-156	811.77	10.40	-2.19E-01	2.47E+00	2.47E+00
		1153.47	7.20	-9.71E-01		4.25E+00
		1230.71	8.90	2.30E-01		3.95E+00
+	HO-166M	184.41	72.60	1.51E-01	8.79E-02	8.79E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	280.45		29.60	-8.47E-02	8.79E-02	1.66E-01
		410.94		11.10	6.42E-02		5.76E-01
		711.69		54.10	-1.45E-02		1.26E-01
+	TM-171	66.72		0.14	-7.70E+01	4.63E+01	4.63E+01
+	HF-172	81.75		4.52	-1.19E+00	4.23E-01	1.28E+00
		125.81		11.30	4.32E-02		4.23E-01
+	LU-172	181.53		20.60	5.49E-01	2.75E+00	4.75E+00
		810.06		16.63	3.42E+00		8.76E+00
		912.12		15.25	3.64E+01		1.76E+01
		1093.66		62.50	1.14E+00		2.75E+00
+	LU-173	100.72		5.24	4.97E-01	2.74E-01	9.38E-01
		272.11		21.20	1.93E-01		2.74E-01
+	HF-175	343.40		84.00	-3.59E-02	7.26E-02	7.26E-02
+	LU-176	88.34		13.30	3.55E-01	5.12E-02	4.89E-01
		201.83		86.00	7.21E-03		5.93E-02
		306.78		94.00	-1.86E-03		5.12E-02
+	TA-182	67.75		41.20	-1.17E-01	1.78E-01	1.78E-01
		1121.30		34.90	5.83E-01		4.44E-01
		1189.05		16.23	-2.78E-02		5.22E-01
		1221.41		26.98	1.14E-01		4.13E-01
		1231.02		11.44	5.71E-02		9.79E-01
+	IR-192	308.46		29.68	-4.09E-02	1.59E-01	2.08E-01
		468.07		48.10	-1.60E-01		1.59E-01
+	HG-203	279.19		77.30	5.13E-02	1.06E-01	1.06E-01
+	BI-207	569.67		97.72	-3.88E-02	6.03E-02	6.03E-02
		1063.62		74.90	-5.64E-03		1.11E-01
+	TL-208	583.14	*	30.22	1.16E+00	1.58E-01	3.44E-01
		860.37		4.48	3.92E-01		1.75E+00
		2614.66	*	35.85	9.61E-01		1.58E-01
+	BI-210M	262.00		45.00	-8.14E-03	1.04E-01	1.04E-01
		300.00		23.00	-2.85E-01		2.64E-01
+	PB-210	46.50		4.25	1.25E+00	1.97E+00	1.97E+00
+	PB-211	404.84		2.90	5.82E-01	1.80E+00	1.80E+00
		831.96		2.90	-1.03E+00		2.42E+00
+	BI-212	727.17	*	11.80	7.26E-01	8.61E-01	8.61E-01
		1620.62	*	2.75	2.53E+00		3.12E+00
+	PB-212	238.63	*	44.60	1.17E+00	2.91E-01	2.91E-01
		300.09	*	3.41	2.51E+00		2.70E+00
+	BI-214	609.31	*	46.30	1.22E+00	2.01E-01	2.27E-01
		1120.29	*	15.10	1.30E+00		7.78E-01
		1764.49	*	15.80	1.37E+00		3.97E-01
		2204.22	*	4.98	1.49E+00		2.01E-01
+	PB-214	295.21	*	19.19	1.38E+00	2.57E-01	4.68E-01
		351.92	*	37.19	1.37E+00		2.57E-01
+	RN-219	401.80		6.50	-1.51E-01	7.47E-01	7.47E-01
+	RA-223	323.87		3.88	-5.34E-02	1.25E+00	1.25E+00
+	RA-224	240.98	*	3.95	3.88E+00	3.34E+00	3.34E+00
+	RA-225	40.00		31.00	-4.35E-01	1.32E+00	1.32E+00

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DUPLICATE 3

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-226	186.21	*	3.28	3.05E+00	2.45E+00	2.45E+00
+	TH-227	50.10		8.40	-1.60E+00	5.35E-01	8.35E-01
		236.00		11.50	-3.48E+00		5.35E-01
		256.20		6.30	-4.70E-01		7.81E-01
+	AC-228	338.32	*	11.40	1.48E+00	5.52E-01	8.06E-01
		911.07	*	27.70	1.07E+00		5.52E-01
		969.11	*	16.60	8.60E-01		6.11E-01
+	TH-230	48.44		16.90	2.30E-01	4.71E-01	4.71E-01
		62.85		4.60	2.49E+00		1.58E+00
		67.67		0.37	-1.09E+01		1.66E+01
+	PA-231	283.67		1.60	9.43E-01	2.33E+00	3.14E+00
		302.67		2.30	1.65E-01		2.33E+00
+	TH-231	25.64		14.70	1.04E+00	9.17E-01	5.41E+00
		84.21		6.40	-1.84E+00		9.17E-01
+	PA-233	311.98		38.60	-5.86E-02	2.60E-01	2.60E-01
+	PA-234	131.20		20.40	1.46E-02	2.41E-01	2.41E-01
		733.99		8.80	2.21E-02		6.90E-01
		946.00		12.00	2.76E-01		7.06E-01
+	PA-234M	1001.03		0.92	1.80E+00	8.05E+00	8.05E+00
+	TH-234	63.29		3.80	1.46E+00	1.89E+00	1.89E+00
+	U-235	143.76		10.50	2.18E-01	4.83E-01	4.83E-01
		163.35		4.70	3.62E-01		1.09E+00
		205.31		4.70	2.21E-01		1.12E+00
+	NP-237	86.50		12.60	4.06E-02	4.99E-01	4.99E-01
+	NP-239	106.10		22.70	-2.19E+02	1.00E+03	1.00E+03
		228.18		10.70	-3.42E+02		2.21E+03
		277.60		14.10	7.71E+02		1.84E+03
+	AM-241	59.54		35.90	-1.14E-01	1.82E-01	1.82E-01
+	AM-243	74.67	*	66.00	2.59E-01	1.73E-01	1.73E-01
+	CM-243	209.75		3.29	1.33E+00	3.76E-01	1.76E+00
		228.14		10.60	-6.99E-02		4.53E-01
		277.60		14.00	1.57E-01		3.76E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1507092-05

DUPLICATE 3

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	8.29E-01	8.29E-01	2.74E-01	3.91E-01
	NA-22	1274.54		99.94	6.81E-02	6.81E-02	-1.36E-02	3.04E-02
	NA-24	1368.53		99.99	6.39E+12	2.99E+12	2.03E+12	2.88E+12
		2754.09		99.86	2.99E+12		-8.06E+11	1.06E+12
	AL-26	1808.65		99.76	4.06E-02	4.06E-02	-2.11E-02	1.57E-02
+	K-40	1460.81	*	10.67	6.45E-01	6.45E-01	1.76E+01	2.85E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.52E-02	6.52E-02	-4.27E-02	3.18E-02
		78.34		96.00	8.54E-02		2.25E-01	4.19E-02
	SC-46	889.25		99.98	6.38E-02	6.38E-02	-4.00E-02	2.84E-02
		1120.51		99.99	1.64E-01		2.05E-01	7.80E-02
	V-48	983.52		99.98	2.45E-01	2.45E-01	4.93E-02	1.12E-01
		1312.10		97.50	2.63E-01		-4.08E-02	1.18E-01
	CR-51	320.08		9.83	9.74E-01	9.74E-01	-3.11E-01	4.61E-01
	MN-54	834.83		99.97	7.70E-02	7.70E-02	-2.14E-04	3.57E-02
	CO-56	846.75		99.96	8.00E-02	8.00E-02	-3.03E-02	3.66E-02
		1037.75		14.03	6.31E-01		-1.92E-01	2.87E-01
		1238.25		67.00	2.00E-01		-1.57E-04	9.33E-02
		1771.40		15.51	4.40E-01		-1.72E-01	1.82E-01
		2598.48		16.90	4.41E-01		2.94E-02	1.81E-01
	CO-57	122.06		85.51	5.37E-02	5.37E-02	-1.47E-02	2.59E-02
		136.48		10.60	4.71E-01		-3.53E-01	2.28E-01
	CO-58	810.76		99.40	9.64E-02	9.64E-02	3.28E-02	4.48E-02
	FE-59	1099.22		56.50	2.26E-01	2.26E-01	-9.83E-02	1.04E-01
		1291.56		43.20	2.79E-01		-4.72E-04	1.26E-01
	CO-60	1173.22		100.00	7.63E-02	7.22E-02	-1.44E-03	3.47E-02
		1332.49		100.00	7.22E-02		-2.28E-02	3.23E-02
+	ZN-65	1115.52	*	50.75	2.43E-01	2.43E-01	7.59E-02	1.15E-01
	GA-67	93.31		35.70	8.61E+01	8.61E+01	2.16E+02	4.22E+01
		208.95		2.24	1.21E+03		7.68E+02	5.84E+02
		300.22		16.00	1.77E+02		-1.91E+02	8.49E+01
	SE-75	121.11		16.70	3.04E-01	9.23E-02	2.07E-03	1.47E-01
		136.00		59.20	9.47E-02		2.85E-03	4.58E-02
		264.65		59.80	9.23E-02		-8.03E-03	4.40E-02
		279.53		25.20	2.45E-01		4.00E-02	1.17E-01
		400.65		11.40	5.05E-01		-8.52E-02	2.37E-01
	RB-82	776.52		13.00	1.10E+00	1.10E+00	-7.68E-01	5.09E-01
	RB-83	520.41		46.00	1.66E-01	1.66E-01	5.49E-02	7.80E-02
		529.64		30.30	2.51E-01		1.39E-02	1.18E-01
		552.65		16.40	4.42E-01		-2.12E-02	2.07E-01
	KR-85	513.99		0.43	2.13E+01	2.13E+01	2.85E+01	1.02E+01
	SR-85	513.99		99.27	1.26E-01	1.26E-01	1.69E-01	6.06E-02
	Y-88	898.02		93.40	8.68E-02	6.56E-02	-3.80E-02	3.99E-02
		1836.01		99.38	6.56E-02		-2.58E-03	2.72E-02
	NB-93M	16.57		9.43	6.94E+01	6.94E+01	-1.49E+02	3.21E+01

Analysis Report for 1507092-05

DUPLICATE 3

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	7.67E-02	7.34E-02	1.66E-02	3.61E-02
		871.10		100.00	7.34E-02		3.81E-02	3.40E-02
	NB-95	765.79		99.81	1.42E-01	1.42E-01	5.76E-02	6.65E-02
	NB-95M	235.69		25.00	6.33E+01	6.33E+01	-4.11E+02	3.06E+01
	ZR-95	724.18		43.70	2.55E-01	1.89E-01	1.85E-02	1.20E-01
		756.72		55.30	1.89E-01		6.96E-02	8.84E-02
	MO-99	181.06		6.20	1.13E+03	7.45E+02	2.70E+02	5.44E+02
		739.58		12.80	7.45E+02		3.16E+02	3.46E+02
		778.00		4.50	2.02E+03		-1.74E+03	9.30E+02
	RU-103	497.08		89.00	1.10E-01	1.10E-01	2.43E-02	5.20E-02
	RU-106	621.84		9.80	7.26E-01	7.26E-01	3.23E-02	3.41E-01
	AG-108M	433.93		89.90	6.25E-02	6.25E-02	-1.79E-02	2.95E-02
		614.37		90.40	7.43E-02		-1.87E-02	3.49E-02
		722.95		90.50	7.83E-02		5.20E-03	3.66E-02
+	CD-109	88.03	*	3.72	3.26E+00	3.26E+00	2.81E+00	1.61E+00
	AG-110M	657.75		93.14	7.44E-02	7.44E-02	-9.19E-04	3.47E-02
		677.61		10.53	6.83E-01		3.91E-01	3.19E-01
		706.67		16.46	4.70E-01		-1.83E-01	2.20E-01
		763.93		21.98	3.57E-01		-6.33E-02	1.67E-01
		884.67		71.63	8.65E-02		-4.33E-02	3.91E-02
		1384.27		23.94	2.88E-01		6.92E-02	1.26E-01
	CD-113M	263.70		0.02	1.98E+02	1.98E+02	-2.50E+01	9.44E+01
	SN-113	255.12		1.93	2.99E+00	8.79E-02	3.47E-01	1.43E+00
		391.69		64.90	8.79E-02		-1.13E-02	4.13E-02
	TE123M	159.00		84.10	6.47E-02	6.47E-02	-5.32E-02	3.12E-02
	SB-124	602.71		97.87	9.85E-02	9.85E-02	3.30E-02	4.64E-02
		645.85		7.26	1.19E+00		-3.13E-02	5.52E-01
		722.78		11.10	8.90E-01		5.91E-02	4.16E-01
		1691.02		49.00	1.39E-01		-1.54E-03	5.68E-02
	I-125	35.49		6.49	3.03E+00	3.03E+00	-9.05E-01	1.46E+00
	SB-125	176.33		6.89	6.90E-01	1.99E-01	-4.03E-01	3.32E-01
		427.89		29.33	1.99E-01		-2.59E-02	9.40E-02
		463.38		10.35	6.57E-01		2.63E-01	3.12E-01
		600.56		17.80	3.84E-01		2.19E-01	1.81E-01
		635.90		11.32	5.77E-01		3.92E-02	2.70E-01
	SB-126	414.70		83.30	3.64E-01	3.46E-01	-1.98E-01	1.73E-01
		666.33		99.60	3.46E-01		-4.67E-03	1.62E-01
		695.00		99.60	3.56E-01		-2.50E-02	1.67E-01
		720.50		53.80	6.38E-01		-4.76E-03	2.98E-01
+	SN-126	87.57	*	37.00	3.14E-01	3.14E-01	2.71E-01	1.55E-01
	SB-127	473.00		25.00	4.14E+01	3.14E+01	-1.08E+01	1.95E+01
		685.20		35.70	3.14E+01		-6.43E+00	1.46E+01
		783.80		14.70	8.70E+01		7.48E-02	4.04E+01
	I-129	29.78		57.00	4.76E-01	4.76E-01	-4.90E-02	2.30E-01
		33.60		13.20	1.27E+00		-4.01E-01	6.13E-01
		39.58		7.52	1.45E+00		-4.76E-01	7.01E-01
	I-131	284.30		6.05	9.98E+00	6.85E-01	2.28E+00	4.76E+00
		364.48		81.20	6.85E-01		-1.44E-01	3.22E-01
		636.97		7.26	1.05E+01		1.83E+00	4.92E+00
		722.89		1.80	4.75E+01		3.15E+00	2.22E+01
	TE-132	49.72		13.10	2.53E+02	2.55E+01	-4.84E+02	1.23E+02
		228.16		88.00	2.55E+01		-3.93E+00	1.22E+01
	BA-133	81.00		33.00	1.73E-01	8.94E-02	-5.84E-01	8.45E-02

Analysis Report for 1507092-05

DUPLICATE 3

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-133	302.84	17.80	3.02E-01	8.94E-02	2.15E-02	1.44E-01
	356.01	60.00	8.94E-02		-5.69E-01	4.24E-02
I-133	529.87	86.30	7.64E+08	7.64E+08	4.24E+07	3.59E+08
XE-133	81.00	38.00	6.83E+00	6.83E+00	-2.30E+01	3.33E+00
CS-134	563.23	8.38	8.08E-01	8.02E-02	4.47E-01	3.81E-01
	569.32	15.43	4.02E-01		-1.69E-01	1.88E-01
	604.70	97.60	8.02E-02		5.23E-03	3.80E-02
	795.84	85.40	9.43E-02		7.17E-02	4.42E-02
	801.93	8.73	7.81E-01		1.70E-03	3.61E-01
CS-135	268.24	16.00	3.55E-01	3.55E-01	3.35E-01	1.71E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	2.94E+00	2.99E-01	1.49E+00	1.42E+00
	163.89	4.61	5.09E+00		1.69E+00	2.47E+00
	176.55	13.56	1.58E+00		-9.22E-01	7.59E-01
	273.65	12.66	1.74E+00		-2.77E+00	8.29E-01
	340.57	48.50	6.29E-01		7.59E-01	3.02E-01
	818.50	99.70	2.99E-01		9.39E-03	1.38E-01
	1048.07	79.60	4.33E-01		-9.25E-02	1.99E-01
	1235.34	19.70	2.38E+00		-1.36E-02	1.11E+00
CS-137	661.65	85.12	8.28E-02	8.28E-02	2.04E-02	3.89E-02
LA-138	788.74	34.00	2.03E-01	9.12E-02	5.82E-02	9.42E-02
	1435.80	66.00	9.12E-02		1.79E-02	3.97E-02
CE-139	165.85	80.35	7.29E-02	7.29E-02	7.75E-03	3.53E-02
BA-140	162.64	6.70	3.61E+00	1.13E+00	8.64E-01	1.75E+00
	304.84	4.50	5.20E+00		1.73E+00	2.47E+00
	423.70	3.20	8.57E+00		-1.56E+00	4.06E+00
	437.55	2.00	1.45E+01		6.63E+00	6.89E+00
	537.32	25.00	1.13E+00		-4.20E-01	5.28E-01
LA-140	328.77	20.50	1.30E+00	3.25E-01	3.92E-01	6.20E-01
	487.03	45.50	5.99E-01		-7.71E-02	2.82E-01
	815.85	23.50	1.21E+00		-1.59E-01	5.54E-01
	1596.49	95.49	3.25E-01		5.43E-02	1.41E-01
CE-141	145.44	48.40	1.87E-01	1.87E-01	3.44E-02	9.05E-02
CE-143	57.36	11.80	1.17E+06	4.06E+05	-1.37E+05	5.70E+05
	293.26	42.00	4.06E+05		1.00E+06	1.97E+05
	664.55	5.20	2.85E+06		6.06E+05	1.34E+06
CE-144	133.54	10.80	4.85E-01	4.85E-01	4.29E-01	2.35E-01
PM-144	476.78	42.00	1.45E-01	7.06E-02	-2.80E-02	6.82E-02
	618.01	98.60	7.06E-02		-1.78E-02	3.31E-02
	696.49	99.49	7.68E-02		-9.00E-03	3.60E-02
PM-145	36.85	21.70	6.01E-01	3.20E-01	4.31E-01	2.91E-01
	37.36	39.70	3.20E-01		7.01E-02	1.55E-01
	42.30	15.10	6.10E-01		1.47E-02	2.95E-01
	72.40	2.31	3.20E+00		1.13E+00	1.57E+00
PM-146	453.90	39.94	1.46E-01	1.46E-01	-7.79E-03	6.90E-02
	735.90	14.01	4.51E-01		1.54E-01	2.09E-01
	747.13	13.10	4.97E-01		-5.20E-02	2.30E-01
ND-147	91.11	28.90	1.40E+00	1.40E+00	-3.22E+00	6.87E-01
	531.02	13.10	2.83E+00		-9.15E-01	1.33E+00
PM-149	285.90	3.10	1.37E+04	1.37E+04	1.47E+03	6.51E+03
EU-152	121.78	20.50	2.09E-01	2.09E-01	-5.72E-02	1.01E-01

Analysis Report for 1507092-05

DUPLICATE 3

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	1.05E+00	2.09E-01	-1.34E-01	5.06E-01
		344.27		19.13	2.36E-01		-1.13E-01	1.11E-01
		778.89		9.20	6.95E-01		-4.13E-01	3.21E-01
		964.01		10.40	9.26E-01		4.60E-01	4.35E-01
		1085.78		7.22	1.05E+00		2.44E-01	4.81E-01
		1112.02		9.60	7.96E-01		-1.62E-01	3.64E-01
		1407.95		14.94	4.21E-01		-8.16E-02	1.85E-01
	GD-153	97.43		31.30	1.61E-01	1.61E-01	1.50E-02	7.81E-02
		103.18		22.20	2.28E-01		7.42E-02	1.11E-01
	EU-154	123.07		40.50	1.06E-01	1.06E-01	-1.21E-01	5.12E-02
		723.30		19.70	3.62E-01		2.40E-02	1.69E-01
		873.19		11.50	5.87E-01		-2.63E-01	2.70E-01
		996.32		10.30	6.90E-01		6.55E-02	3.16E-01
		1004.76		17.90	4.26E-01		1.70E-01	1.96E-01
		1274.45		35.50	1.89E-01		-3.77E-02	8.42E-02
	EU-155	86.50		30.90	2.06E-01	2.06E-01	1.68E-02	1.00E-01
		105.30		20.70	2.25E-01		-4.90E-02	1.09E-01
	EU-156	811.77		10.40	2.47E+00	2.47E+00	-2.19E-01	1.15E+00
		1153.47		7.20	4.25E+00		-9.71E-01	1.95E+00
		1230.71		8.90	3.95E+00		2.30E-01	1.83E+00
	HO-166M	184.41		72.60	8.79E-02	8.79E-02	1.51E-01	4.27E-02
		280.45		29.60	1.66E-01		-8.47E-02	7.93E-02
		410.94		11.10	5.76E-01		6.42E-02	2.74E-01
		711.69		54.10	1.26E-01		-1.45E-02	5.87E-02
	TM-171	66.72		0.14	4.63E+01	4.63E+01	-7.70E+01	2.26E+01
	HF-172	81.75		4.52	1.28E+00	4.23E-01	-1.19E+00	6.26E-01
		125.81		11.30	4.23E-01		4.32E-02	2.05E-01
	LU-172	181.53		20.60	4.75E+00	2.75E+00	5.49E-01	2.29E+00
		810.06		16.63	8.76E+00		3.42E+00	4.08E+00
		912.12		15.25	1.76E+01		3.64E+01	8.45E+00
		1093.66		62.50	2.75E+00		1.14E+00	1.27E+00
	LU-173	100.72		5.24	9.38E-01	2.74E-01	4.97E-01	4.55E-01
		272.11		21.20	2.74E-01		1.93E-01	1.32E-01
	HF-175	343.40		84.00	7.26E-02	7.26E-02	-3.59E-02	3.42E-02
	LU-176	88.34		13.30	4.89E-01	5.12E-02	3.55E-01	2.39E-01
		201.83		86.00	5.93E-02		7.21E-03	2.86E-02
		306.78		94.00	5.12E-02		-1.86E-03	2.43E-02
	TA-182	67.75		41.20	1.78E-01	1.78E-01	-1.17E-01	8.68E-02
		1121.30		34.90	4.44E-01		5.83E-01	2.11E-01
		1189.05		16.23	5.22E-01		-2.78E-02	2.36E-01
		1221.41		26.98	4.13E-01		1.14E-01	1.91E-01
		1231.02		11.44	9.79E-01		5.71E-02	4.53E-01
	IR-192	308.46		29.68	2.08E-01	1.59E-01	-4.09E-02	9.86E-02
		468.07		48.10	1.59E-01		-1.60E-01	7.49E-02
	HG-203	279.19		77.30	1.06E-01	1.06E-01	5.13E-02	5.07E-02
	BI-207	569.67		97.72	6.03E-02	6.03E-02	-3.88E-02	2.82E-02
		1063.62		74.90	1.11E-01		-5.64E-03	5.14E-02
+	TL-208	583.14	*	30.22	3.44E-01	1.58E-01	1.16E+00	1.65E-01
		860.37		4.48	1.75E+00		3.92E-01	8.18E-01
		2614.66	*	35.85	1.58E-01		9.61E-01	6.46E-02
	BI-210M	262.00		45.00	1.04E-01	1.04E-01	-8.14E-03	4.95E-02
		300.00		23.00	2.64E-01		-2.85E-01	1.27E-01
	PB-210	46.50		4.25	1.97E+00	1.97E+00	1.25E+00	9.57E-01

Analysis Report for 1507092-05

DUPLICATE 3

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	1.80E+00	1.80E+00	5.82E-01	8.47E-01
		831.96		2.90	2.42E+00		-1.03E+00	1.12E+00
+	BI-212	727.17	*	11.80	8.61E-01	8.61E-01	7.26E-01	4.11E-01
		1620.62	*	2.75	3.12E+00		2.53E+00	1.40E+00
+	PB-212	238.63	*	44.60	2.91E-01	2.91E-01	1.17E+00	1.43E-01
		300.09	*	3.41	2.70E+00		2.51E+00	1.32E+00
+	BI-214	609.31	*	46.30	2.27E-01	2.01E-01	1.22E+00	1.09E-01
		1120.29	*	15.10	7.78E-01		1.30E+00	3.68E-01
		1764.49	*	15.80	3.97E-01		1.37E+00	1.70E-01
		2204.22	*	4.98	2.01E-01		1.49E+00	0.00E+00
+	PB-214	295.21	*	19.19	4.68E-01	2.57E-01	1.38E+00	2.28E-01
		351.92	*	37.19	2.57E-01		1.37E+00	1.25E-01
	RN-219	401.80		6.50	7.47E-01	7.47E-01	-1.51E-01	3.51E-01
	RA-223	323.87		3.88	1.25E+00	1.25E+00	-5.34E-02	5.93E-01
+	RA-224	240.98	*	3.95	3.34E+00	3.34E+00	3.88E+00	1.64E+00
	RA-225	40.00		31.00	1.32E+00	1.32E+00	-4.35E-01	6.41E-01
+	RA-226	186.21	*	3.28	2.45E+00	2.45E+00	3.05E+00	1.20E+00
	TH-227	50.10		8.40	8.35E-01	5.35E-01	-1.60E+00	4.05E-01
		236.00		11.50	5.35E-01		-3.48E+00	2.59E-01
		256.20		6.30	7.81E-01		-4.70E-01	3.73E-01
+	AC-228	338.32	*	11.40	8.06E-01	5.52E-01	1.48E+00	3.91E-01
		911.07	*	27.70	5.52E-01		1.07E+00	2.66E-01
		969.11	*	16.60	6.11E-01		8.60E-01	2.88E-01
	TH-230	48.44		16.90	4.71E-01	4.71E-01	2.30E-01	2.29E-01
		62.85		4.60	1.58E+00		2.49E+00	7.72E-01
		67.67		0.37	1.66E+01		-1.09E+01	8.12E+00
	PA-231	283.67		1.60	3.14E+00	2.33E+00	9.43E-01	1.50E+00
		302.67		2.30	2.33E+00		1.65E-01	1.11E+00
	TH-231	25.64		14.70	5.41E+00	9.17E-01	1.04E+00	2.64E+00
		84.21		6.40	9.17E-01		-1.84E+00	4.48E-01
	PA-233	311.98		38.60	2.60E-01	2.60E-01	-5.86E-02	1.24E-01
	PA-234	131.20		20.40	2.41E-01	2.41E-01	1.46E-02	1.17E-01
		733.99		8.80	6.90E-01		2.21E-02	3.19E-01
		946.00		12.00	7.06E-01		2.76E-01	3.29E-01
	PA-234M	1001.03		0.92	8.05E+00	8.05E+00	1.80E+00	3.70E+00
	TH-234	63.29		3.80	1.89E+00	1.89E+00	1.46E+00	9.22E-01
	U-235	143.76		10.50	4.83E-01	4.83E-01	2.18E-01	2.34E-01
		163.35		4.70	1.09E+00		3.62E-01	5.27E-01
		205.31		4.70	1.12E+00		2.21E-01	5.42E-01
	NP-237	86.50		12.60	4.99E-01	4.99E-01	4.06E-02	2.44E-01
	NP-239	106.10		22.70	1.00E+03	1.00E+03	-2.19E+02	4.87E+02
		228.18		10.70	2.21E+03		-3.42E+02	1.06E+03
		277.60		14.10	1.84E+03		7.71E+02	8.81E+02
	AM-241	59.54		35.90	1.82E-01	1.82E-01	-1.14E-01	8.88E-02
+	AM-243	74.67	*	66.00	1.73E-01	1.73E-01	2.59E-01	8.56E-02
	CM-243	209.75		3.29	1.76E+00	3.76E-01	1.33E+00	8.51E-01
		228.14		10.60	4.53E-01		-6.99E-02	2.17E-01
		277.60		14.00	3.76E-01		1.57E-01	1.80E-01

Analysis Report for 1507092-05

DUPLICATE 3

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: DUPLICATE 3

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	52	130	106	242	370	382
25:	65	54	55	57	61	61	53	67
33:	66	40	52	66	70	69	63	60
41:	68	73	74	52	60	68	136	76
49:	61	79	69	78	88	103	73	80
57:	82	107	83	95	105	100	131	217
65:	116	95	118	114	105	100	124	146
73:	115	143	300	250	310	431	131	115
81:	101	94	85	123	119	95	148	210
89:	88	135	131	141	228	197	97	74
97:	59	68	82	73	78	67	67	61
105:	79	82	56	65	76	74	57	65
113:	91	65	68	78	50	58	60	59
121:	58	61	40	54	58	81	69	56
129:	77	86	50	66	73	70	62	66
137:	53	61	55	73	62	67	75	66
145:	70	63	59	55	50	63	54	51
153:	63	42	64	65	45	57	51	42
161:	58	62	56	69	54	65	54	53
169:	58	42	47	39	53	55	50	51
177:	42	41	48	55	42	43	52	59
185:	52	138	120	58	41	42	46	47
193:	59	46	61	53	66	58	51	43
201:	51	40	46	58	42	57	48	45
209:	65	92	48	43	45	32	43	36
217:	38	43	36	41	34	50	45	45
225:	43	44	44	30	32	28	48	36
233:	44	37	28	40	38	144	423	213
241:	72	127	90	43	29	37	30	30
249:	23	35	26	37	36	31	25	34
257:	31	40	43	41	24	25	29	21
265:	31	25	32	29	34	51	58	24
273:	31	29	33	23	32	50	31	29
281:	27	24	31	32	28	31	22	26
289:	27	25	23	15	23	44	124	162
297:	37	33	30	58	58	21	20	29
305:	24	30	21	23	21	24	24	23
313:	23	21	30	25	23	27	23	11
321:	27	16	22	26	21	27	26	44
329:	38	21	17	24	29	14	27	28
337:	19	71	96	33	26	28	19	24
345:	10	10	24	16	21	19	64	304
353:	164	39	18	21	18	23	20	13
361:	19	19	14	14	22	17	17	17

369:	20	12	18	18	13	15	16	22

Sample Title: DUPLICATE 3

Channel								
377:	14	14	15	15	20	30	12	20
385:	16	15	21	19	25	14	20	15
393:	15	18	14	15	19	18	18	15
401:	14	14	21	17	18	18	19	17
409:	16	33	17	24	15	18	18	21
417:	13	13	19	20	12	16	15	16
425:	13	18	16	13	15	17	12	13
433:	19	13	9	15	17	13	22	22
441:	16	10	10	21	9	24	18	17
449:	16	13	9	12	18	13	15	19
457:	11	11	17	16	12	19	32	25
465:	12	16	11	10	18	16	11	17
473:	11	10	12	11	10	19	10	17
481:	16	12	12	11	7	10	19	17
489:	11	9	15	12	12	14	17	10
497:	12	11	9	15	10	11	10	10
505:	15	7	10	17	20	34	77	63
513:	30	9	16	5	11	14	14	13
521:	11	13	13	8	11	12	12	11
529:	6	16	8	14	16	10	13	17
537:	11	8	10	12	6	13	14	13
545:	15	6	11	11	13	15	15	8
553:	8	9	7	8	9	8	3	15
561:	8	17	13	14	14	10	11	13
569:	6	15	10	9	6	19	11	11
577:	8	10	7	16	5	22	117	104
585:	11	12	14	11	11	10	9	12
593:	5	6	13	7	11	14	10	15
601:	16	11	14	5	13	16	8	43
609:	158	176	35	17	18	10	11	7
617:	11	8	10	12	19	10	13	5
625:	12	16	9	6	10	9	10	16
633:	7	13	14	7	7	10	12	5
641:	9	5	8	8	6	13	6	11
649:	11	6	16	5	14	5	10	8
657:	5	6	14	12	11	10	9	10
665:	14	16	10	9	7	10	12	9
673:	4	5	12	8	12	12	12	6
681:	6	7	8	6	10	6	11	9
689:	11	13	9	11	7	14	11	8
697:	10	13	9	13	12	16	15	8
705:	9	14	13	9	14	7	9	13
713:	8	3	12	8	11	8	9	8
721:	13	6	11	10	8	14	32	31
729:	13	7	10	5	3	10	10	5
737:	6	11	7	8	7	5	13	2
745:	7	6	10	12	6	11	5	10
753:	11	14	12	16	9	14	2	9
761:	6	9	14	9	5	11	13	18
769:	12	12	9	13	13	12	11	8
777:	5	3	5	8	7	13	7	10
785:	5	13	5	10	10	11	5	3
793:	11	9	27	8	7	3	9	6

801:	8	7	4	7	10	9	9	8

Sample Title: DUPLICATE 3

Channel								
809:	10	9	6	11	9	7	2	8
817:	8	1	4	7	8	11	13	7
825:	10	3	7	10	7	7	11	6
833:	10	6	7	14	8	6	4	11
841:	12	10	9	3	6	5	7	4
849:	6	9	10	10	12	12	8	8
857:	9	9	5	9	15	6	12	8
865:	8	7	5	12	7	8	5	8
873:	6	9	3	6	9	7	8	13
881:	6	9	7	5	5	4	1	0
889:	6	5	5	2	6	6	9	4
897:	3	4	9	8	6	10	10	8
905:	7	6	13	12	8	16	63	56
913:	28	7	7	4	3	9	8	5
921:	7	6	4	4	7	3	3	6
929:	5	7	10	4	6	20	10	5
937:	4	4	11	6	6	6	9	5
945:	7	10	12	11	11	8	8	4
953:	6	2	4	6	6	9	6	7
961:	11	11	7	19	15	13	6	18
969:	46	36	6	5	6	7	8	5
977:	7	7	7	2	7	4	9	4
985:	2	9	5	4	6	7	5	5
993:	6	2	8	9	2	7	6	4
1001:	7	11	1	8	9	1	11	5
1009:	4	4	3	4	6	3	6	8
1017:	8	5	2	5	2	13	3	12
1025:	5	5	7	3	5	3	2	7
1033:	5	4	7	7	4	3	4	3
1041:	7	6	9	8	3	8	8	9
1049:	6	5	3	6	6	4	7	9
1057:	5	5	8	6	3	9	11	5
1065:	6	10	7	9	7	6	6	5
1073:	7	3	3	10	2	9	9	5
1081:	2	5	5	4	9	4	8	7
1089:	3	3	8	8	7	10	9	6
1097:	5	8	6	4	6	11	4	12
1105:	8	7	10	5	4	2	9	6
1113:	6	4	8	12	3	13	10	47
1121:	26	15	6	4	7	7	10	7
1129:	4	9	8	4	4	3	8	3
1137:	5	6	2	11	3	7	7	6
1145:	6	13	5	9	5	4	3	1
1153:	10	6	8	11	6	9	6	7
1161:	7	4	6	4	5	6	5	2
1169:	2	3	5	10	5	8	2	2
1177:	8	6	5	11	3	6	11	10
1185:	12	4	2	2	6	3	7	6
1193:	3	11	6	12	5	7	13	8
1201:	10	6	4	4	11	3	11	9
1209:	7	9	7	4	5	7	4	7
1217:	5	8	5	7	6	6	9	11
1225:	4	8	11	8	9	8	6	5

1233:	11	5	8	3	12	18	12	4

Sample Title: DUPLICATE 3

Channel								
1241:	7	10	10	6	12	6	9	8
1249:	5	4	8	7	6	2	6	7
1257:	6	9	5	4	5	5	3	4
1265:	4	2	6	6	3	5	2	3
1273:	4	5	2	4	3	4	4	7
1281:	9	7	3	5	3	9	4	5
1289:	3	6	4	8	0	5	4	2
1297:	2	8	3	8	2	7	7	4
1305:	4	2	4	3	1	4	1	4
1313:	7	7	3	5	6	4	5	6
1321:	3	3	4	2	5	1	4	6
1329:	4	2	2	1	8	4	4	2
1337:	7	5	3	3	2	3	1	3
1345:	1	4	3	4	0	2	4	4
1353:	7	3	0	0	2	4	3	3
1361:	3	1	2	3	3	1	6	5
1369:	2	7	4	3	3	2	4	6
1377:	7	11	8	3	2	2	1	3
1385:	0	4	6	2	0	2	2	1
1393:	0	2	0	1	4	3	4	4
1401:	4	4	1	2	3	1	5	2
1409:	3	1	2	4	4	2	4	4
1417:	1	3	1	2	5	3	4	3
1425:	2	3	1	2	2	3	2	0
1433:	2	2	0	3	5	3	0	2
1441:	2	2	2	1	3	5	3	2
1449:	2	4	4	2	5	3	3	0
1457:	3	6	36	194	258	134	22	5
1465:	6	1	0	0	1	0	1	1
1473:	0	1	2	0	1	1	2	2
1481:	1	1	4	1	0	2	3	1
1489:	3	3	2	2	3	3	0	3
1497:	3	0	1	1	0	1	4	0
1505:	1	2	2	5	3	3	1	1
1513:	1	1	5	0	1	3	2	1
1521:	2	2	4	2	3	2	2	5
1529:	3	0	2	0	4	2	1	2
1537:	1	5	2	2	1	2	0	3
1545:	2	1	0	2	1	1	2	1
1553:	1	2	1	2	1	2	3	1
1561:	1	2	1	1	3	0	2	2
1569:	0	2	1	2	1	1	2	1
1577:	1	0	1	1	3	1	3	2
1585:	2	4	5	8	7	2	3	1
1593:	6	2	0	4	0	1	2	0
1601:	3	2	3	1	1	2	0	0
1609:	1	0	2	1	1	2	0	3
1617:	2	2	4	4	5	3	2	2
1625:	2	5	1	1	4	4	3	1
1633:	1	2	1	1	1	0	1	1
1641:	1	3	3	1	2	2	1	1
1649:	1	3	1	4	1	0	1	3
1657:	4	0	1	7	2	3	0	1

1665:	1	2	1	0	1	0	2	2

Sample Title: DUPLICATE 3

Channel								
1673:	1	1	1	3	1	0	1	2
1681:	0	1	3	1	1	0	1	0
1689:	1	1	3	0	1	1	2	1
1697:	1	1	5	3	1	2	0	0
1705:	0	0	2	2	1	1	0	1
1713:	4	1	1	4	1	1	3	1
1721:	1	2	0	1	1	3	1	3
1729:	6	2	4	2	2	0	2	1
1737:	0	3	0	2	0	0	3	0
1745:	1	0	2	1	0	2	1	0
1753:	3	1	0	1	0	2	0	1
1761:	2	4	11	25	23	7	0	1
1769:	0	2	3	1	0	1	1	1
1777:	4	3	1	3	0	1	1	0
1785:	1	2	1	1	2	0	0	1
1793:	0	1	2	2	2	0	1	1
1801:	0	0	2	2	0	0	0	1
1809:	1	1	1	1	0	0	0	0
1817:	0	1	2	0	0	1	0	0
1825:	5	2	1	0	0	0	1	2
1833:	0	1	4	0	0	1	2	1
1841:	1	0	2	3	3	4	1	7
1849:	1	1	1	1	1	1	1	1
1857:	0	0	2	0	2	2	0	0
1865:	0	1	2	1	1	2	0	1
1873:	1	1	0	1	0	0	2	0
1881:	5	0	0	0	1	1	0	1
1889:	1	0	0	0	1	0	2	1
1897:	0	1	0	0	3	1	2	0
1905:	1	0	0	2	0	0	1	0
1913:	1	0	2	1	2	1	3	0
1921:	0	0	0	3	1	0	2	0
1929:	0	0	1	0	1	1	0	2
1937:	0	3	1	0	2	3	0	1
1945:	1	0	2	0	2	1	2	0
1953:	1	0	0	2	1	0	1	0
1961:	0	1	1	2	1	2	0	0
1969:	1	2	1	2	1	0	0	1
1977:	2	0	1	1	2	1	1	1
1985:	1	0	2	1	0	0	2	1
1993:	2	1	1	0	2	1	1	1
2001:	1	0	2	2	0	0	3	0
2009:	0	0	1	1	1	2	2	1
2017:	2	2	1	1	2	1	1	2
2025:	2	1	0	0	0	2	2	2
2033:	1	0	0	0	0	1	2	1
2041:	0	1	1	1	0	2	1	1
2049:	1	0	0	0	1	2	1	0
2057:	1	0	0	1	2	0	0	1
2065:	2	3	1	0	1	0	1	2
2073:	1	1	0	0	0	1	0	1
2081:	0	0	1	1	1	2	0	1
2089:	2	1	0	0	0	0	2	2

2097:	2	0	0	0	2	6	4	4

Sample Title: DUPLICATE 3

Channel								
2105:	3	1	0	0	0	5	0	0
2113:	1	2	1	2	3	3	2	0
2121:	0	0	2	1	0	1	3	2
2129:	1	1	2	2	0	3	2	1
2137:	0	2	1	0	2	0	1	0
2145:	0	0	0	1	2	0	0	0
2153:	1	0	2	0	0	0	1	0
2161:	0	0	1	1	1	0	0	0
2169:	0	0	0	0	0	0	0	2
2177:	1	0	0	0	1	0	2	1
2185:	1	2	1	1	0	2	2	0
2193:	1	1	0	0	0	0	0	2
2201:	2	1	3	11	0	1	0	0
2209:	0	1	1	2	2	0	0	0
2217:	1	2	1	0	2	0	0	1
2225:	0	3	0	1	0	1	1	0
2233:	0	0	0	1	0	1	1	1
2241:	2	0	2	0	1	0	0	0
2249:	0	1	0	0	2	3	1	0
2257:	0	0	2	0	2	0	2	0
2265:	0	1	1	3	0	1	0	3
2273:	0	1	0	0	0	0	0	2
2281:	0	1	0	0	1	0	2	0
2289:	0	1	1	1	1	0	2	1
2297:	1	2	1	0	0	0	1	1
2305:	1	0	1	0	3	0	1	0
2313:	0	1	3	1	1	3	1	2
2321:	1	2	2	2	2	1	1	0
2329:	0	2	1	1	0	2	2	2
2337:	0	0	2	0	0	1	0	2
2345:	0	1	0	1	4	1	0	2
2353:	1	0	2	0	1	1	0	1
2361:	2	3	0	1	1	0	3	0
2369:	0	2	1	3	1	1	1	1
2377:	1	2	0	1	1	0	1	1
2385:	0	2	2	1	1	1	1	1
2393:	0	0	1	0	0	1	0	0
2401:	0	0	1	0	1	2	3	0
2409:	1	1	0	3	0	0	2	1
2417:	0	0	0	1	2	0	1	1
2425:	1	1	1	0	0	1	0	1
2433:	0	1	3	1	0	0	0	0
2441:	0	0	0	1	2	2	3	0
2449:	0	0	0	0	2	0	0	1
2457:	0	0	0	0	1	1	0	1
2465:	0	0	0	1	2	0	1	0
2473:	1	3	0	0	0	2	0	2
2481:	0	0	1	1	0	1	2	0
2489:	0	1	0	0	1	0	1	1
2497:	0	0	0	0	2	0	1	0
2505:	0	0	0	0	1	0	0	1
2513:	0	0	0	0	0	1	1	0
2521:	0	0	0	0	0	1	1	0

2529:	0	4	0	0	1	0	1	0

Sample Title: DUPLICATE 3

Channel								
2537:	0	1	0	0	0	0	1	0
2545:	1	0	0	0	0	0	0	0
2553:	0	0	0	0	0	0	0	1
2561:	1	0	0	0	0	0	1	1
2569:	0	1	0	0	1	1	1	1
2577:	0	0	1	1	1	0	1	0
2585:	0	0	0	0	0	0	1	0
2593:	1	0	1	1	1	1	0	2
2601:	1	0	1	1	0	1	0	0
2609:	0	2	3	11	29	28	18	3
2617:	2	0	1	1	1	0	0	0
2625:	0	0	0	0	0	0	1	0
2633:	0	0	0	0	0	1	1	0
2641:	2	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	1	0	0	0	0	0	1	2
2665:	0	0	0	0	1	0	0	1
2673:	0	0	0	0	0	1	0	1
2681:	0	0	0	0	0	0	1	0
2689:	0	0	0	0	0	0	0	0
2697:	0	1	0	3	2	0	1	0
2705:	0	0	0	0	0	0	0	1
2713:	0	0	0	1	0	0	1	1
2721:	0	0	1	0	0	0	0	0
2729:	0	1	0	0	1	0	1	0
2737:	3	0	0	1	0	0	0	2
2745:	1	0	2	0	0	0	0	1
2753:	0	0	1	0	0	0	1	0
2761:	1	1	0	0	1	0	1	0
2769:	1	0	0	1	0	0	1	0
2777:	0	0	1	0	1	0	0	0
2785:	0	0	1	0	0	0	0	0
2793:	1	0	1	0	1	0	0	1
2801:	0	0	0	2	0	0	0	0
2809:	0	0	0	0	0	0	1	0
2817:	0	0	0	0	0	0	1	0
2825:	1	0	0	0	0	0	1	0
2833:	0	0	0	0	0	0	1	1
2841:	0	0	0	0	2	0	0	1
2849:	0	0	0	0	0	0	0	0
2857:	0	0	1	0	0	1	1	0
2865:	0	0	0	2	0	0	0	0
2873:	1	0	0	0	0	0	0	0
2881:	0	0	0	0	1	1	0	1
2889:	0	0	0	1	0	0	0	0
2897:	0	0	0	0	0	2	0	0
2905:	1	0	0	1	0	0	1	1
2913:	2	0	0	0	0	0	1	0
2921:	0	0	0	0	0	0	0	0
2929:	1	0	1	0	0	0	1	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	1	0	0	0	0
2953:	0	0	0	1	0	0	0	0

2961:	1	0	0	0	0	1	0	0

Sample Title: DUPLICATE 3

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	1	0	0
2985:	0	1	0	1	0	0	1	0
2993:	0	0	0	1	0	0	0	0
3001:	1	0	1	0	0	0	0	0
3009:	0	0	0	0	1	0	0	1
3017:	0	0	0	0	1	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	1	1	0	0	0	0
3041:	0	2	0	1	0	0	0	0
3049:	0	1	0	0	1	0	0	0
3057:	2	0	0	0	0	0	1	1
3065:	0	2	0	0	0	0	0	1
3073:	0	0	0	0	0	0	0	0
3081:	0	0	1	1	0	0	0	0
3089:	0	2	0	0	0	1	0	1
3097:	1	0	0	0	0	0	0	1
3105:	0	0	0	0	1	0	0	0
3113:	0	0	0	1	0	2	0	3
3121:	0	0	2	2	1	0	0	0
3129:	0	1	1	0	1	0	0	0
3137:	0	0	0	0	0	0	2	0
3145:	1	1	1	0	0	1	1	0
3153:	0	1	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	1	0	0	0	0	0	0	0
3177:	1	0	0	0	0	0	0	0
3185:	0	2	0	1	0	0	0	1
3193:	0	0	1	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	1	1	1	0	0	0	0
3225:	0	1	0	0	0	0	0	0
3233:	1	1	0	0	0	0	0	1
3241:	0	1	0	0	0	0	0	0
3249:	0	0	0	0	1	0	0	0
3257:	1	0	0	0	1	0	0	0
3265:	0	2	2	0	0	0	2	1
3273:	0	0	0	2	0	1	1	0
3281:	0	0	0	0	0	1	0	0
3289:	0	0	0	0	0	1	2	1
3297:	0	0	0	0	0	0	1	0
3305:	1	0	0	0	0	0	0	0
3313:	0	0	0	0	1	0	0	0
3321:	0	0	1	0	0	0	1	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	1
3345:	0	2	0	0	0	0	1	0
3353:	1	0	1	0	0	0	0	1
3361:	0	0	1	0	0	0	0	0
3369:	0	0	0	1	0	0	1	0
3377:	1	1	0	0	0	1	0	0
3385:	1	1	0	0	1	0	0	1

3393:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 3

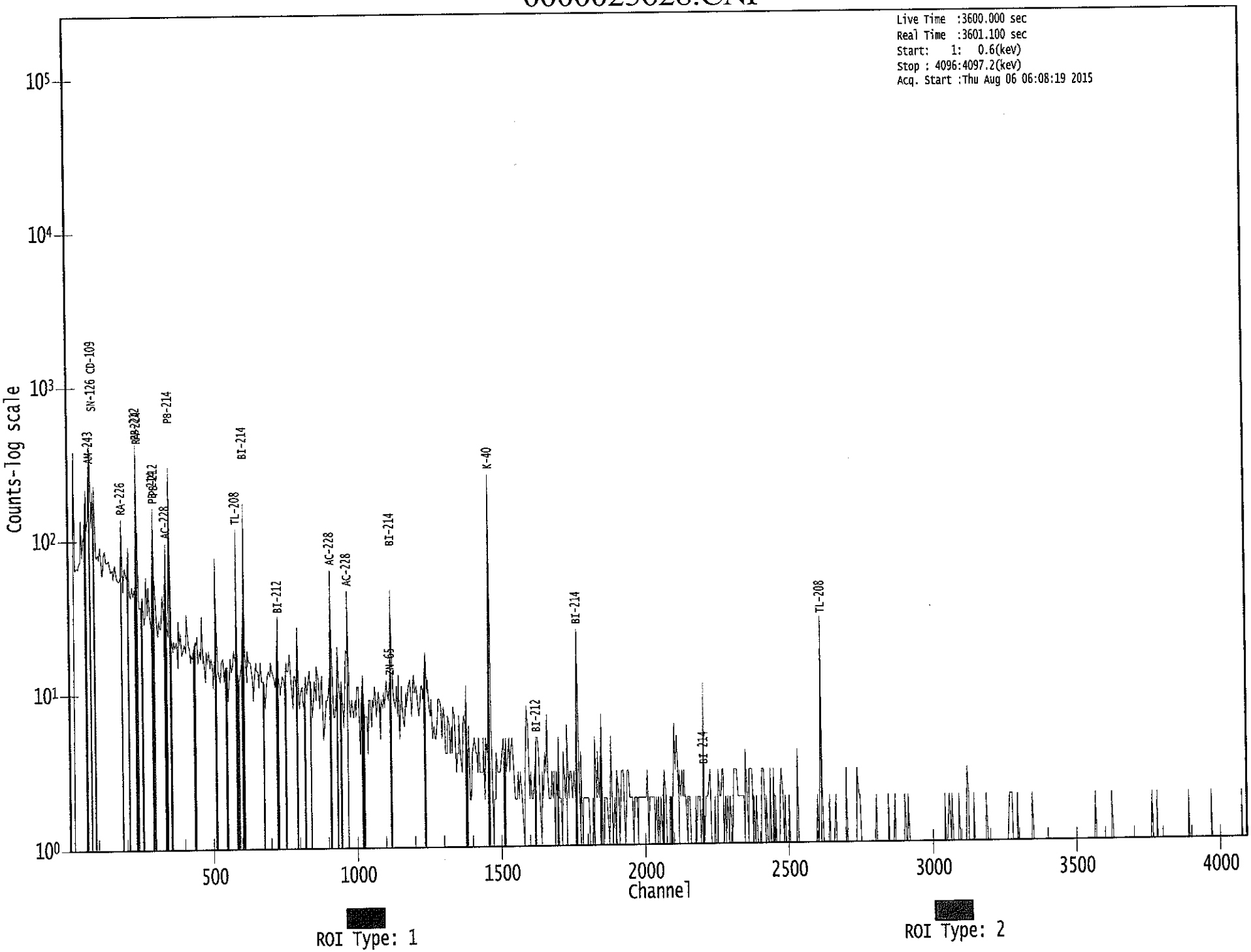
Channel								
3401:	0	0	0	0	0	0	0	1
3409:	0	0	0	0	0	0	0	0
3417:	0	1	0	0	1	1	0	1
3425:	0	0	0	0	0	0	1	0
3433:	1	0	0	0	0	0	0	0
3441:	0	0	1	0	0	0	0	0
3449:	0	0	1	0	1	0	0	1
3457:	1	0	0	0	0	0	0	0
3465:	0	0	0	0	1	0	0	1
3473:	1	0	0	1	1	0	0	1
3481:	0	0	0	1	0	0	0	0
3489:	0	0	0	1	1	1	0	0
3497:	0	0	0	0	0	1	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	1	0	0
3537:	0	0	1	0	0	0	0	0
3545:	0	0	1	0	0	0	1	0
3553:	0	1	0	0	0	1	0	0
3561:	0	1	0	0	0	2	0	0
3569:	0	0	0	0	0	0	1	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	1	0	0	0
3593:	0	0	0	0	1	1	0	0
3601:	0	0	1	0	0	0	0	0
3609:	1	0	0	0	1	0	0	0
3617:	0	0	0	0	0	2	0	1
3625:	0	0	1	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	1	0	0	0	0	0	0	0
3665:	0	0	0	1	0	0	1	0
3673:	0	0	0	0	0	1	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	1	0	0	0
3697:	0	1	1	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	1
3737:	0	1	0	0	0	0	0	0
3745:	0	0	1	0	0	0	0	0
3753:	0	0	0	0	0	0	1	0
3761:	0	2	0	0	0	1	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	2	0	0	1	0	0
3785:	1	0	1	0	1	1	0	0
3793:	0	0	0	1	1	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	1	0	0	0
3817:	1	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 3

Channel								
3833:	0	0	1	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	1	0	0	1	0	0
3865:	0	0	0	0	0	0	1	0
3873:	1	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	2	0	0	0	1	0	0	0
3897:	0	0	0	0	1	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	1	0	0	0	0	0	0
3937:	0	0	1	0	0	0	1	0
3945:	0	0	0	0	0	0	1	0
3953:	1	0	0	1	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	2	0	0	0	0	0	0	0
3977:	0	0	1	0	0	0	0	0
3985:	0	0	0	0	0	0	1	0
3993:	0	0	0	0	0	1	0	1
4001:	0	0	1	0	0	0	0	0
4009:	0	1	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	1	0	0	0	0	0	0	0
4033:	0	1	0	0	1	1	0	0
4041:	0	0	0	1	0	0	0	0
4049:	1	0	0	0	0	0	0	0
4057:	0	0	0	0	0	1	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	2	0	0	0	0	0
4081:	0	0	1	0	0	0	0	1
4089:	1	0	0	0	1	0	1	0

0000025628.CNF



Apex-Gamma

Analysis Report for 1507092-06
FEEBRIS1D-10 046-049

C
8/6

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507092-06
Sample Description	: FEEBRIS1D-10 046-049
Sample Type	: SOIL
Sample Size	: 3.459E+02 grams
Facility	: Countroom
Sample Taken On	: 7/9/2015 8:59:14AM
Acquisition Started	: 8/6/2015 6:08:25AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25629

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/6/15

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

PEAK LOCATE REPORT

Peak Locate Performed on : 8/6/2015 7:08:42AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	13.82	13.94	0.0000	0.00
2	24.90	25.02	0.0000	0.00
3	63.53	63.63	0.0000	0.00
4	76.35	76.44	0.0000	0.00
5	93.52	93.60	0.0000	0.00
6	185.98	186.01	0.0000	0.00
7	209.43	209.44	0.0000	0.00
8	238.90	238.90	0.0000	0.00
9	241.95	241.94	0.0000	0.00
10	270.99	270.97	0.0000	0.00
11	295.32	295.29	0.0000	0.00
12	300.23	300.20	0.0000	0.00
13	327.79	327.74	0.0000	0.00
14	338.50	338.45	0.0000	0.00
15	349.21	349.14	0.0000	0.00
16	352.07	352.01	0.0000	0.00
17	375.36	375.29	0.0000	0.00
18	406.24	406.15	0.0000	0.00
19	410.18	410.08	0.0000	0.00
20	463.30	463.18	0.0000	0.00
21	485.65	485.51	0.0000	0.00
22	492.01	491.87	0.0000	0.00
23	511.36	511.22	0.0000	0.00
24	529.49	529.34	0.0000	0.00
25	561.17	561.00	0.0000	0.00
26	569.72	569.55	0.0000	0.00
27	580.13	579.95	0.0000	0.00
28	583.35	583.17	0.0000	0.00
29	609.58	609.39	0.0000	0.00
30	727.15	726.90	0.0000	0.00
31	734.84	734.59	0.0000	0.00
32	795.96	795.68	0.0000	0.00
33	808.00	807.72	0.0000	0.00
34	861.05	860.74	0.0000	0.00
35	911.28	910.96	0.0000	0.00
36	934.84	934.50	0.0000	0.00
37	965.15	964.80	0.0000	0.00
38	969.43	969.08	0.0000	0.00
39	1016.70	1016.33	0.0000	0.00
40	1025.17	1024.79	0.0000	0.00
41	1120.62	1120.21	0.0000	0.00
42	1123.62	1123.21	0.0000	0.00

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1155.86	1155.44	0.0000	0.00
44	1163.04	1162.62	0.0000	0.00
45	1238.32	1237.87	0.0000	0.00
46	1279.68	1279.22	0.0000	0.00
47	1284.17	1283.70	0.0000	0.00
48	1331.87	1331.39	0.0000	0.00
49	1362.76	1362.27	0.0000	0.00
50	1456.52	1456.00	0.0000	0.00
51	1461.29	1460.77	0.0000	0.00
52	1620.09	1619.52	0.0000	0.00
53	1676.80	1676.22	0.0000	0.00
54	1731.07	1730.47	0.0000	0.00
55	1764.95	1764.34	0.0000	0.00
56	1841.97	1841.35	0.0000	0.00
57	1869.71	1869.08	0.0000	0.00
58	2103.75	2103.08	0.0000	0.00
59	2614.97	2614.23	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:08:42AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	13.82	13 -	17	13.94	1.92E+03	141.45	2.05E+03	1.12
	2	24.90	23 -	27	25.02	8.40E+01	63.85	8.30E+02	2.67
	3	63.53	61 -	66	63.63	9.64E+01	67.05	8.31E+02	1.79
	4	76.35	72 -	79	76.44	8.22E+02	103.56	1.24E+03	3.89
	5	93.52	91 -	96	93.60	1.21E+02	69.63	8.27E+02	1.65
	6	185.98	183 -	189	186.01	1.54E+02	58.55	5.12E+02	1.34
	7	209.43	207 -	213	209.44	4.84E+01	52.40	4.55E+02	1.75
M	8	238.90	234 -	245	238.90	5.25E+02	60.03	2.52E+02	1.55
m	9	241.95	234 -	245	241.94	1.32E+02	44.31	2.39E+02	1.56
	10	270.99	268 -	275	270.97	6.83E+01	47.92	3.39E+02	2.64
M	11	295.32	291 -	304	295.29	2.37E+02	41.64	1.86E+02	1.65
m	12	300.23	291 -	304	300.20	5.78E+01	32.22	1.61E+02	1.66
M	13	327.79	325 -	342	327.74	2.65E+01	33.06	1.97E+02	1.87
m	14	338.50	325 -	342	338.45	1.43E+02	38.48	1.72E+02	1.88
M	15	349.21	348 -	356	349.14	1.94E+01	19.39	9.85E+01	1.57
m	16	352.07	348 -	356	352.01	3.26E+02	45.91	1.59E+02	1.58
	17	375.36	372 -	378	375.29	3.55E+01	31.09	1.49E+02	2.45
M	18	406.24	405 -	413	406.15	1.77E+01	16.72	5.78E+01	1.65
m	19	410.18	405 -	413	410.08	2.24E+01	25.52	1.25E+02	1.65
	20	463.30	460 -	466	463.18	2.87E+01	30.90	1.51E+02	1.67
	21	485.65	482 -	489	485.51	3.12E+01	28.98	1.18E+02	3.74
	22	492.01	490 -	495	491.87	1.69E+01	19.31	5.82E+01	2.53
	23	511.36	506 -	516	511.22	1.42E+02	48.65	2.35E+02	1.92
	24	529.49	527 -	532	529.34	1.78E+01	21.19	7.64E+01	1.23
M	25	561.17	554 -	578	561.00	1.58E+01	21.01	8.07E+01	1.66
m	26	569.72	554 -	578	569.55	1.80E+01	25.60	9.08E+01	2.21
M	27	580.13	579 -	587	579.95	1.73E+01	10.20	2.04E+01	1.84
m	28	583.35	579 -	587	583.17	2.01E+02	34.93	7.17E+01	1.84
	29	609.58	605 -	614	609.39	2.55E+02	49.07	1.95E+02	1.91
	30	727.15	723 -	730	726.90	5.42E+01	28.57	9.96E+01	1.42
	31	734.84	731 -	738	734.59	3.41E+01	24.17	7.19E+01	1.82
	32	795.96	791 -	800	795.68	4.04E+01	26.21	7.53E+01	2.03
	33	808.00	804 -	811	807.72	1.59E+01	20.40	5.61E+01	1.39
	34	861.05	858 -	862	860.74	1.60E+01	16.88	4.80E+01	1.20
	35	911.28	907 -	915	910.96	1.23E+02	34.20	1.06E+02	1.64
	36	934.84	931 -	938	934.50	1.97E+01	20.98	6.06E+01	1.66
M	37	965.15	962 -	975	964.80	2.76E+01	22.18	5.22E+01	2.19
m	38	969.43	962 -	975	969.08	7.89E+01	24.98	5.80E+01	2.19
	39	1016.70	1014 -	1019	1016.33	1.50E+01	15.49	3.60E+01	3.43
	40	1025.17	1021 -	1028	1024.79	1.58E+01	19.18	4.84E+01	3.11

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	1120.62	1116 -	1126	1120.21	9.74E+01	23.83	5.28E+01	2.31
m	42	1123.62	1116 -	1126	1123.21	1.61E+01	23.91	5.02E+01	2.31
	43	1155.86	1153 -	1158	1155.44	3.62E+01	17.64	3.35E+01	3.94
	44	1163.04	1160 -	1167	1162.62	2.21E+01	21.63	6.17E+01	3.46
	45	1238.32	1235 -	1241	1237.87	2.15E+01	19.90	5.70E+01	1.38
M	46	1279.68	1277 -	1286	1279.22	1.15E+01	12.75	3.08E+01	2.42
m	47	1284.17	1277 -	1286	1283.70	1.33E+01	13.49	1.32E+01	2.65
	48	1331.87	1329 -	1333	1331.39	1.20E+01	11.58	1.80E+01	1.39
	49	1362.76	1360 -	1364	1362.27	1.10E+01	9.43	1.00E+01	1.88
M	50	1456.52	1455 -	1467	1456.00	8.59E+00	7.76	1.50E+01	2.31
m	51	1461.29	1455 -	1467	1460.77	4.93E+02	46.41	3.17E+01	2.25
	52	1620.09	1615 -	1623	1619.52	1.23E+01	11.69	1.34E+01	3.11
	53	1676.80	1672 -	1679	1676.22	8.00E+00	7.48	4.00E+00	4.46
	54	1731.07	1726 -	1736	1730.47	1.79E+01	12.51	1.22E+01	3.06
	55	1764.95	1760 -	1769	1764.34	3.90E+01	17.20	2.00E+01	1.49
	56	1841.97	1837 -	1844	1841.35	9.18E+00	7.75	3.64E+00	2.71
	57	1869.71	1865 -	1873	1869.08	1.30E+01	7.21	0.00E+00	6.75
	58	2103.75	2099 -	2108	2103.08	1.20E+01	9.00	3.93E+00	1.55
	59	2614.97	2610 -	2618	2614.23	8.36E+01	19.09	4.74E+00	3.88

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:08:42AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	13.82	13 -	17	1.92E+03	141.45	2.05E+03	9.13E+01
	2	24.90	23 -	27	8.40E+01	63.85	8.30E+02	5.03E+01
	3	63.53	61 -	66	9.64E+01	67.05	8.31E+02	5.27E+01
	4	76.35	72 -	79	8.22E+02	103.56	1.24E+03	7.09E+01
	5	93.52	91 -	96	1.21E+02	69.63	8.27E+02	5.43E+01
	6	185.98	183 -	189	1.54E+02	58.55	5.12E+02	4.36E+01
	7	209.43	207 -	213	4.84E+01	52.40	4.55E+02	4.15E+01
M	8	238.90	234 -	245	5.25E+02	60.03	2.52E+02	2.61E+01
m	9	241.95	234 -	245	1.32E+02	44.31	2.39E+02	2.54E+01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	10	270.99	268 -	275	6.83E+01	47.92	3.39E+02	3.70E+01
M	11	295.32	291 -	304	2.37E+02	41.64	1.86E+02	2.24E+01
m	12	300.23	291 -	304	5.78E+01	32.22	1.61E+02	2.08E+01
M	13	327.79	325 -	342	2.65E+01	33.06	1.97E+02	2.31E+01
m	14	338.50	325 -	342	1.43E+02	38.48	1.72E+02	2.15E+01
M	15	349.21	348 -	356	1.94E+01	19.39	9.85E+01	1.63E+01
m	16	352.07	348 -	356	3.26E+02	45.91	1.59E+02	2.07E+01
	17	375.36	372 -	378	3.55E+01	31.09	1.49E+02	2.36E+01
M	18	406.24	405 -	413	1.77E+01	16.72	5.78E+01	1.25E+01
m	19	410.18	405 -	413	2.24E+01	25.52	1.25E+02	1.84E+01
	20	463.30	460 -	466	2.87E+01	30.90	1.51E+02	2.38E+01
	21	485.65	482 -	489	3.12E+01	28.98	1.18E+02	2.20E+01
	22	492.01	490 -	495	1.69E+01	19.31	5.82E+01	1.44E+01
	23	511.36	506 -	516	1.42E+02	48.65	2.35E+02	3.49E+01
	24	529.49	527 -	532	1.78E+01	21.19	7.64E+01	1.60E+01
M	25	561.17	554 -	578	1.58E+01	21.01	8.07E+01	1.48E+01
m	26	569.72	554 -	578	1.80E+01	25.60	9.08E+01	1.57E+01
M	27	580.13	579 -	587	1.73E+01	10.20	2.04E+01	7.42E+00
m	28	583.35	579 -	587	2.01E+02	34.93	7.17E+01	1.39E+01
	29	609.58	605 -	614	2.55E+02	49.07	1.95E+02	3.06E+01
	30	727.15	723 -	730	5.42E+01	28.57	9.96E+01	2.01E+01
	31	734.84	731 -	738	3.41E+01	24.17	7.19E+01	1.74E+01
	32	795.96	791 -	800	4.04E+01	26.21	7.53E+01	1.88E+01
	33	808.00	804 -	811	1.59E+01	20.40	5.61E+01	1.54E+01
	34	861.05	858 -	862	1.60E+01	16.88	4.80E+01	1.22E+01
	35	911.28	907 -	915	1.23E+02	34.20	1.06E+02	2.14E+01
	36	934.84	931 -	938	1.97E+01	20.98	6.06E+01	1.56E+01
M	37	965.15	962 -	975	2.76E+01	22.18	5.22E+01	1.19E+01
m	38	969.43	962 -	975	7.89E+01	24.98	5.80E+01	1.25E+01
	39	1016.70	1014 -	1019	1.50E+01	15.49	3.60E+01	1.10E+01
	40	1025.17	1021 -	1028	1.58E+01	19.18	4.84E+01	1.43E+01
M	41	1120.62	1116 -	1126	9.74E+01	23.83	5.28E+01	1.19E+01
m	42	1123.62	1116 -	1126	1.61E+01	23.91	5.02E+01	1.16E+01
	43	1155.86	1153 -	1158	3.62E+01	17.64	3.35E+01	1.06E+01
	44	1163.04	1160 -	1167	2.21E+01	21.63	6.17E+01	1.60E+01
	45	1238.32	1235 -	1241	2.15E+01	19.90	5.70E+01	1.45E+01
M	46	1279.68	1277 -	1286	1.15E+01	12.75	3.08E+01	9.12E+00
m	47	1284.17	1277 -	1286	1.33E+01	13.49	1.32E+01	5.98E+00
	48	1331.87	1329 -	1333	1.20E+01	11.58	1.80E+01	7.62E+00
	49	1362.76	1360 -	1364	1.10E+01	9.43	1.00E+01	5.51E+00
M	50	1456.52	1455 -	1467	8.59E+00	7.76	1.50E+01	6.36E+00
m	51	1461.29	1455 -	1467	4.93E+02	46.41	3.17E+01	9.26E+00
	52	1620.09	1615 -	1623	1.23E+01	11.69	1.34E+01	7.69E+00
	53	1676.80	1672 -	1679	8.00E+00	7.48	4.00E+00	4.03E+00
	54	1731.07	1726 -	1736	1.79E+01	12.51	1.22E+01	7.57E+00
	55	1764.95	1760 -	1769	3.90E+01	17.20	2.00E+01	9.73E+00
	56	1841.97	1837 -	1844	9.18E+00	7.75	3.64E+00	3.97E+00
	57	1869.71	1865 -	1873	1.30E+01	7.21	0.00E+00	0.00E+00
	58	2103.75	2099 -	2108	1.20E+01	9.00	3.93E+00	4.71E+00
	59	2614.97	2610 -	2618	8.36E+01	19.09	4.74E+00	4.48E+00

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/6/2015 7:08:42AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	13.82	13 -	17	13.94	1.92E+03	141.45	2.05E+03	.....
	2	24.90	23 -	27	25.02	8.40E+01	63.85	8.30E+02	TH-231
	3	63.53	61 -	66	63.63	9.64E+01	67.05	8.31E+02	TH-234
									TH-230
	4	76.35	72 -	79	76.44	8.22E+02	103.56	1.24E+03	.....
	5	93.52	91 -	96	93.60	1.21E+02	69.63	8.27E+02	GA-67
	6	185.98	183 -	189	186.01	1.54E+02	58.55	5.12E+02	RA-226
	7	209.43	207 -	213	209.44	4.84E+01	52.40	4.55E+02	CM-243
									GA-67
M	8	238.90	234 -	245	238.90	5.25E+02	60.03	2.52E+02	PB-212
m	9	241.95	234 -	245	241.94	1.32E+02	44.31	2.39E+02	RA-224
	10	270.99	268 -	275	270.97	6.83E+01	47.92	3.39E+02	.....
M	11	295.32	291 -	304	295.29	2.37E+02	41.64	1.86E+02	PB-214
m	12	300.23	291 -	304	300.20	5.78E+01	32.22	1.61E+02	GA-67
									PB-212
									BI-210M
M	13	327.79	325 -	342	327.74	2.65E+01	33.06	1.97E+02	LA-140
m	14	338.50	325 -	342	338.45	1.43E+02	38.48	1.72E+02	AC-228
M	15	349.21	348 -	356	349.14	1.94E+01	19.39	9.85E+01	.....
m	16	352.07	348 -	356	352.01	3.26E+02	45.91	1.59E+02	PB-214
	17	375.36	372 -	378	375.29	3.55E+01	31.09	1.49E+02	.....
M	18	406.24	405 -	413	406.15	1.77E+01	16.72	5.78E+01	.....
m	19	410.18	405 -	413	410.08	2.24E+01	25.52	1.25E+02	HO-166M
	20	463.30	460 -	466	463.18	2.87E+01	30.90	1.51E+02	SB-125
	21	485.65	482 -	489	485.51	3.12E+01	28.98	1.18E+02	.....
	22	492.01	490 -	495	491.87	1.69E+01	19.31	5.82E+01	.....
	23	511.36	506 -	516	511.22	1.42E+02	48.65	2.35E+02	.....
	24	529.49	527 -	532	529.34	1.78E+01	21.19	7.64E+01	RB-83
									I-133
M	25	561.17	554 -	578	561.00	1.58E+01	21.01	8.07E+01	.....

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
m	26	569.72	554 -	578	569.55	1.80E+01	25.60	9.08E+01	BI-207 CS-134
M	27	580.13	579 -	587	579.95	1.73E+01	10.20	2.04E+01	.....
m	28	583.35	579 -	587	583.17	2.01E+02	34.93	7.17E+01	TL-208
	29	609.58	605 -	614	609.39	2.55E+02	49.07	1.95E+02	BI-214
	30	727.15	723 -	730	726.90	5.42E+01	28.57	9.96E+01	BI-212
	31	734.84	731 -	738	734.59	3.41E+01	24.17	7.19E+01	PA-234
	32	795.96	791 -	800	795.68	4.04E+01	26.21	7.53E+01	CS-134
	33	808.00	804 -	811	807.72	1.59E+01	20.40	5.61E+01	.....
	34	861.05	858 -	862	860.74	1.60E+01	16.88	4.80E+01	TL-208
	35	911.28	907 -	915	910.96	1.23E+02	34.20	1.06E+02	AC-228 LU-172
	36	934.84	931 -	938	934.50	1.97E+01	20.98	6.06E+01	.....
M	37	965.15	962 -	975	964.80	2.76E+01	22.18	5.22E+01	.....
m	38	969.43	962 -	975	969.08	7.89E+01	24.98	5.80E+01	AC-228
	39	1016.70	1014 -	1019	1016.33	1.50E+01	15.49	3.60E+01	.....
	40	1025.17	1021 -	1028	1024.79	1.58E+01	19.18	4.84E+01	.....
M	41	1120.62	1116 -	1126	1120.21	9.74E+01	23.83	5.28E+01	SC-46 BI-214 TA-182
m	42	1123.62	1116 -	1126	1123.21	1.61E+01	23.91	5.02E+01	.....
	43	1155.86	1153 -	1158	1155.44	3.62E+01	17.64	3.35E+01	.....
	44	1163.04	1160 -	1167	1162.62	2.21E+01	21.63	6.17E+01	.....
	45	1238.32	1235 -	1241	1237.87	2.15E+01	19.90	5.70E+01	CO-56
M	46	1279.68	1277 -	1286	1279.22	1.15E+01	12.75	3.08E+01	.....
m	47	1284.17	1277 -	1286	1283.70	1.33E+01	13.49	1.32E+01	.....
	48	1331.87	1329 -	1333	1331.39	1.20E+01	11.58	1.80E+01	CO-60
	49	1362.76	1360 -	1364	1362.27	1.10E+01	9.43	1.00E+01	.....
M	50	1456.52	1455 -	1467	1456.00	8.59E+00	7.76	1.50E+01	.....
m	51	1461.29	1455 -	1467	1460.77	4.93E+02	46.41	3.17E+01	K-40
	52	1620.09	1615 -	1623	1619.52	1.23E+01	11.69	1.34E+01	BI-212
	53	1676.80	1672 -	1679	1676.22	8.00E+00	7.48	4.00E+00	.....
	54	1731.07	1726 -	1736	1730.47	1.79E+01	12.51	1.22E+01	.....
	55	1764.95	1760 -	1769	1764.34	3.90E+01	17.20	2.00E+01	BI-214
	56	1841.97	1837 -	1844	1841.35	9.18E+00	7.75	3.64E+00	.....
	57	1869.71	1865 -	1873	1869.08	1.30E+01	7.21	0.00E+00	.....
	58	2103.75	2099 -	2108	2103.08	1.20E+01	9.00	3.93E+00	.....
	59	2614.97	2610 -	2618	2614.23	8.36E+01	19.09	4.74E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/6/2015 7:08:42AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	13.82	1.92E+03	141.45	8.76E-08	1.68E-03
	2	24.90	8.40E+01	63.85	4.25E-04	1.68E-03
	3	63.53	9.64E+01	67.05	2.38E-02	2.08E-03
	4	76.35	8.22E+02	103.56	2.74E-02	3.35E-03
	5	93.52	1.21E+02	69.63	2.85E-02	4.26E-03
	6	185.98	1.54E+02	58.55	2.11E-02	1.65E-03
	7	209.43	4.84E+01	52.40	1.95E-02	1.63E-03
M	8	238.90	5.25E+02	60.03	1.79E-02	1.60E-03
m	9	241.95	1.32E+02	44.31	1.77E-02	1.60E-03
	10	270.99	6.83E+01	47.92	1.64E-02	1.57E-03
M	11	295.32	2.37E+02	41.64	1.55E-02	1.48E-03
m	12	300.23	5.78E+01	32.22	1.53E-02	1.46E-03
M	13	327.79	2.65E+01	33.06	1.44E-02	1.32E-03
m	14	338.50	1.43E+02	38.48	1.41E-02	1.27E-03
M	15	349.21	1.94E+01	19.39	1.38E-02	1.22E-03
m	16	352.07	3.26E+02	45.91	1.37E-02	1.21E-03
	17	375.36	3.55E+01	31.09	1.31E-02	1.10E-03
M	18	406.24	1.77E+01	16.72	1.24E-02	1.00E-03
m	19	410.18	2.24E+01	25.52	1.23E-02	1.00E-03
	20	463.30	2.87E+01	30.90	1.13E-02	9.47E-04
	21	485.65	3.12E+01	28.98	1.10E-02	9.24E-04
	22	492.01	1.69E+01	19.31	1.09E-02	9.18E-04
	23	511.36	1.42E+02	48.65	1.06E-02	8.98E-04
	24	529.49	1.78E+01	21.19	1.03E-02	8.79E-04
M	25	561.17	1.58E+01	21.01	9.86E-03	8.47E-04
m	26	569.72	1.80E+01	25.60	9.75E-03	8.39E-04
M	27	580.13	1.73E+01	10.20	9.62E-03	8.28E-04
m	28	583.35	2.01E+02	34.93	9.58E-03	8.25E-04
	29	609.58	2.55E+02	49.07	9.27E-03	7.98E-04
	30	727.15	5.42E+01	28.57	8.09E-03	7.03E-04
	31	734.84	3.41E+01	24.17	8.02E-03	6.98E-04
	32	795.96	4.04E+01	26.21	7.53E-03	6.59E-04
	33	808.00	1.59E+01	20.40	7.44E-03	6.51E-04
	34	861.05	1.60E+01	16.88	7.06E-03	6.17E-04
	35	911.28	1.23E+02	34.20	6.74E-03	5.87E-04
	36	934.84	1.97E+01	20.98	6.61E-03	5.75E-04
M	37	965.15	2.76E+01	22.18	6.44E-03	5.59E-04
m	38	969.43	7.89E+01	24.98	6.41E-03	5.57E-04
	39	1016.70	1.50E+01	15.49	6.17E-03	5.33E-04
	40	1025.17	1.58E+01	19.18	6.13E-03	5.28E-04
M	41	1120.62	9.74E+01	23.83	5.70E-03	4.80E-04
m	42	1123.62	1.61E+01	23.91	5.69E-03	4.78E-04
	43	1155.86	3.62E+01	17.64	5.56E-03	4.62E-04
	44	1163.04	2.21E+01	21.63	5.54E-03	4.58E-04
	45	1238.32	2.15E+01	19.90	5.27E-03	4.83E-04

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	46	1279.68	1.15E+01	12.75	5.14E-03	5.02E-04
m	47	1284.17	1.33E+01	13.49	5.13E-03	5.04E-04
	48	1331.87	1.20E+01	11.58	4.99E-03	5.26E-04
	49	1362.76	1.10E+01	9.43	4.91E-03	5.14E-04
M	50	1456.52	8.59E+00	7.76	4.68E-03	4.75E-04
m	51	1461.29	4.93E+02	46.41	4.67E-03	4.73E-04
	52	1620.09	1.23E+01	11.69	4.38E-03	4.07E-04
	53	1676.80	8.00E+00	7.48	4.29E-03	3.84E-04
	54	1731.07	1.79E+01	12.51	4.22E-03	3.61E-04
	55	1764.95	3.90E+01	17.20	4.18E-03	3.47E-04
	56	1841.97	9.18E+00	7.75	4.11E-03	3.18E-04
	57	1869.71	1.30E+01	7.21	4.08E-03	3.18E-04
	58	2103.75	1.20E+01	9.00	3.95E-03	3.18E-04
	59	2614.97	8.36E+01	19.09	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/6/2015 7:08:42AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	13.82	1.92E+03	141.45	1.24E+03	4.65E+01	6.81E+02	1.49E+02
	2	24.90	8.40E+01	63.85			8.40E+01	6.39E+01
	3	63.53	9.64E+01	67.05	2.99E+01	6.15E+00	6.66E+01	6.73E+01
	4	76.35	8.22E+02	103.56			8.22E+02	1.04E+02
	5	93.52	1.21E+02	69.63	5.29E+01	8.67E+00	6.85E+01	7.02E+01
	6	185.98	1.54E+02	58.55	4.79E+01	7.81E+00	1.06E+02	5.91E+01
	7	209.43	4.84E+01	52.40			4.84E+01	5.24E+01
M	8	238.90	5.25E+02	60.03	2.21E+01	3.31E+00	5.03E+02	6.01E+01
m	9	241.95	1.32E+02	44.31	7.15E+00	2.42E+00	1.25E+02	4.44E+01
	10	270.99	6.83E+01	47.92			6.83E+01	4.79E+01
M	11	295.32	2.37E+02	41.64	1.30E+01	5.93E+00	2.24E+02	4.21E+01
m	12	300.23	5.78E+01	32.22			5.78E+01	3.22E+01
M	13	327.79	2.65E+01	33.06			2.65E+01	3.31E+01
m	14	338.50	1.43E+02	38.48			1.43E+02	3.85E+01
M	15	349.21	1.94E+01	19.39			1.94E+01	1.94E+01
m	16	352.07	3.26E+02	45.91	1.67E+01	5.59E+00	3.10E+02	4.63E+01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	17	375.36	3.55E+01	31.09			3.55E+01	3.11E+01
M	18	406.24	1.77E+01	16.72			1.77E+01	1.67E+01
m	19	410.18	2.24E+01	25.52			2.24E+01	2.55E+01
	20	463.30	2.87E+01	30.90			2.87E+01	3.09E+01
	21	485.65	3.12E+01	28.98			3.12E+01	2.90E+01
	22	492.01	1.69E+01	19.31			1.69E+01	1.93E+01
	23	511.36	1.42E+02	48.65	9.00E+01	5.68E+00	5.17E+01	4.90E+01
	24	529.49	1.78E+01	21.19			1.78E+01	2.12E+01
M	25	561.17	1.58E+01	21.01			1.58E+01	2.10E+01
m	26	569.72	1.80E+01	25.60			1.80E+01	2.56E+01
M	27	580.13	1.73E+01	10.20			1.73E+01	1.02E+01
m	28	583.35	2.01E+02	34.93	7.99E+00	3.88E+00	1.93E+02	3.51E+01
	29	609.58	2.55E+02	49.07	1.77E+01	8.73E+00	2.37E+02	4.98E+01
	30	727.15	5.42E+01	28.57			5.42E+01	2.86E+01
	31	734.84	3.41E+01	24.17			3.41E+01	2.42E+01
	32	795.96	4.04E+01	26.21			4.04E+01	2.62E+01
	33	808.00	1.59E+01	20.40			1.59E+01	2.04E+01
	34	861.05	1.60E+01	16.88	2.87E+00	3.03E+00	1.31E+01	1.72E+01
	35	911.28	1.23E+02	34.20	3.66E+00	2.67E+00	1.19E+02	3.43E+01
	36	934.84	1.97E+01	20.98			1.97E+01	2.10E+01
M	37	965.15	2.76E+01	22.18			2.76E+01	2.22E+01
m	38	969.43	7.89E+01	24.98	2.18E+00	2.58E+00	7.68E+01	2.51E+01
	39	1016.70	1.50E+01	15.49			1.50E+01	1.55E+01
	40	1025.17	1.58E+01	19.18			1.58E+01	1.92E+01
M	41	1120.62	9.74E+01	23.83	5.40E+00	2.54E+00	9.20E+01	2.40E+01
m	42	1123.62	1.61E+01	23.91			1.61E+01	2.39E+01
	43	1155.86	3.62E+01	17.64			3.62E+01	1.76E+01
	44	1163.04	2.21E+01	21.63			2.21E+01	2.16E+01
	45	1238.32	2.15E+01	19.90	1.40E+00	2.38E+00	2.01E+01	2.00E+01
M	46	1279.68	1.15E+01	12.75			1.15E+01	1.27E+01
m	47	1284.17	1.33E+01	13.49			1.33E+01	1.35E+01
	48	1331.87	1.20E+01	11.58			1.20E+01	1.16E+01
	49	1362.76	1.10E+01	9.43			1.10E+01	9.43E+00
M	50	1456.52	8.59E+00	7.76			8.59E+00	7.76E+00
m	51	1461.29	4.93E+02	46.41	1.02E+01	2.32E+00	4.83E+02	4.65E+01
	52	1620.09	1.23E+01	11.69			1.23E+01	1.17E+01
	53	1676.80	8.00E+00	7.48			8.00E+00	7.48E+00
	54	1731.07	1.79E+01	12.51			1.79E+01	1.25E+01
	55	1764.95	3.90E+01	17.20	4.45E+00	2.04E+00	3.45E+01	1.73E+01
	56	1841.97	9.18E+00	7.75			9.18E+00	7.75E+00
	57	1869.71	1.30E+01	7.21			1.30E+01	7.21E+00
	58	2103.75	1.20E+01	9.00			1.20E+01	9.00E+00
	59	2614.97	8.36E+01	19.09	6.29E+00	1.69E+00	7.73E+01	1.92E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/6/2015 7:08:42AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024756.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	13.82	1.92E+03	141.45	1.24E+03	4.65E+01	6.81E+02	1.49E+02
	2	24.90	8.40E+01	63.85			8.40E+01	6.39E+01
	3	63.53	9.64E+01	67.05	2.99E+01	6.15E+00	6.66E+01	6.73E+01
	4	76.35	8.22E+02	103.56			8.22E+02	1.04E+02
	5	93.52	1.21E+02	69.63	5.29E+01	8.67E+00	6.85E+01	7.02E+01
	6	185.98	1.54E+02	58.55	4.79E+01	7.81E+00	1.06E+02	5.91E+01
	7	209.43	4.84E+01	52.40			4.84E+01	5.24E+01
M	8	238.90	5.25E+02	60.03	2.21E+01	3.31E+00	5.03E+02	6.01E+01
m	9	241.95	1.32E+02	44.31	7.15E+00	2.42E+00	1.25E+02	4.44E+01
	10	270.99	6.83E+01	47.92			6.83E+01	4.79E+01
M	11	295.32	2.37E+02	41.64	1.30E+01	5.93E+00	2.24E+02	4.21E+01
m	12	300.23	5.78E+01	32.22			5.78E+01	3.22E+01
M	13	327.79	2.65E+01	33.06			2.65E+01	3.31E+01
m	14	338.50	1.43E+02	38.48			1.43E+02	3.85E+01
M	15	349.21	1.94E+01	19.39			1.94E+01	1.94E+01
m	16	352.07	3.26E+02	45.91	1.67E+01	5.59E+00	3.10E+02	4.63E+01
	17	375.36	3.55E+01	31.09			3.55E+01	3.11E+01
M	18	406.24	1.77E+01	16.72			1.77E+01	1.67E+01
m	19	410.18	2.24E+01	25.52			2.24E+01	2.55E+01
	20	463.30	2.87E+01	30.90			2.87E+01	3.09E+01
	21	485.65	3.12E+01	28.98			3.12E+01	2.90E+01
	22	492.01	1.69E+01	19.31			1.69E+01	1.93E+01
	23	511.36	1.42E+02	48.65	9.00E+01	5.68E+00	5.17E+01	4.90E+01
	24	529.49	1.78E+01	21.19			1.78E+01	2.12E+01
M	25	561.17	1.58E+01	21.01			1.58E+01	2.10E+01
m	26	569.72	1.80E+01	25.60			1.80E+01	2.56E+01
M	27	580.13	1.73E+01	10.20			1.73E+01	1.02E+01
m	28	583.35	2.01E+02	34.93	7.99E+00	3.88E+00	1.93E+02	3.51E+01
	29	609.58	2.55E+02	49.07	1.77E+01	8.73E+00	2.37E+02	4.98E+01
	30	727.15	5.42E+01	28.57			5.42E+01	2.86E+01
	31	734.84	3.41E+01	24.17			3.41E+01	2.42E+01
	32	795.96	4.04E+01	26.21			4.04E+01	2.62E+01
	33	808.00	1.59E+01	20.40			1.59E+01	2.04E+01
	34	861.05	1.60E+01	16.88	2.87E+00	3.03E+00	1.31E+01	1.72E+01
	35	911.28	1.23E+02	34.20	3.66E+00	2.67E+00	1.19E+02	3.43E+01
	36	934.84	1.97E+01	20.98			1.97E+01	2.10E+01
M	37	965.15	2.76E+01	22.18			2.76E+01	2.22E+01
m	38	969.43	7.89E+01	24.98	2.18E+00	2.58E+00	7.68E+01	2.51E+01
	39	1016.70	1.50E+01	15.49			1.50E+01	1.55E+01
	40	1025.17	1.58E+01	19.18			1.58E+01	1.92E+01
M	41	1120.62	9.74E+01	23.83	5.40E+00	2.54E+00	9.20E+01	2.40E+01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	42	1123.62	1.61E+01	23.91			1.61E+01	2.39E+01
	43	1155.86	3.62E+01	17.64			3.62E+01	1.76E+01
	44	1163.04	2.21E+01	21.63			2.21E+01	2.16E+01
	45	1238.32	2.15E+01	19.90	1.40E+00	2.38E+00	2.01E+01	2.00E+01
M	46	1279.68	1.15E+01	12.75			1.15E+01	1.27E+01
m	47	1284.17	1.33E+01	13.49			1.33E+01	1.35E+01
	48	1331.87	1.20E+01	11.58			1.20E+01	1.16E+01
	49	1362.76	1.10E+01	9.43			1.10E+01	9.43E+00
M	50	1456.52	8.59E+00	7.76			8.59E+00	7.76E+00
m	51	1461.29	4.93E+02	46.41	1.02E+01	2.32E+00	4.83E+02	4.65E+01
	52	1620.09	1.23E+01	11.69			1.23E+01	1.17E+01
	53	1676.80	8.00E+00	7.48			8.00E+00	7.48E+00
	54	1731.07	1.79E+01	12.51			1.79E+01	1.25E+01
	55	1764.95	3.90E+01	17.20	4.45E+00	2.04E+00	3.45E+01	1.73E+01
	56	1841.97	9.18E+00	7.75			9.18E+00	7.75E+00
	57	1869.71	1.30E+01	7.21			1.30E+01	7.21E+00
	58	2103.75	1.20E+01	9.00			1.20E+01	9.00E+00
	59	2614.97	8.36E+01	19.09	6.29E+00	1.69E+00	7.73E+01	1.92E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.964	1460.81	*	10.67	2.10E+01	2.97E+00
GA-67	0.690	93.31	*	35.70	5.51E+01	2.17E+02
		208.95	*	2.24	9.06E+02	3.44E+03
		300.22	*	16.00	1.93E+02	7.43E+02
BI-207	0.401	569.67	*	97.72	4.10E-02	5.85E-02
		1063.62		74.90		
TL-208	0.985	583.14	*	30.22	1.45E+00	2.91E-01
		860.37	*	4.48	8.99E-01	1.18E+00
		2614.66	*	35.85	1.16E+00	3.00E-01
BI-212	0.992	727.17	*	11.80	1.23E+00	6.59E-01
		1620.62	*	2.75	2.22E+00	2.12E+00
PB-212	0.989	238.63	*	44.60	1.37E+00	2.05E-01
		300.09	*	3.41	2.41E+00	1.36E+00

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.912	609.31	*	46.30	1.20E+00	2.72E-01
		1120.29	*	15.10	2.32E+00	6.35E-01
		1764.49	*	15.80	1.13E+00	5.77E-01
		2204.22		4.98		
PB-214	0.997	295.21	*	19.19	1.64E+00	3.45E-01
		351.92	*	37.19	1.32E+00	2.29E-01
RA-224	0.861	240.98	*	3.95	3.87E+00	1.42E+00
RA-226	0.992	186.21	*	3.28	3.33E+00	6.37E+00
AC-228	0.990	338.32	*	11.40	1.93E+00	5.48E-01
		911.07	*	27.70	1.39E+00	4.16E-01
		969.11	*	16.60	1.57E+00	5.30E-01
TH-234	0.991	63.29	*	3.80	1.60E+00	1.62E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:08:42AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.82	1.89295E-01	10.93		
	2	24.90	2.33208E-02	38.03	Tol.	TH-231
	4	76.35	2.28387E-01	6.30		
	10	270.99	1.89683E-02	35.09		
M	13	327.79	7.35950E-03	62.39		
M	15	349.21	5.38677E-03	50.00		
	17	375.36	9.85732E-03	43.81		
M	18	406.24	4.91366E-03	47.26		
m	19	410.18	6.21288E-03	57.06	Tol.	HO-166M
	20	463.30	7.98077E-03	53.78		
	21	485.65	8.67901E-03	46.38	Sum	
	22	492.01	4.69203E-03	57.17		
	23	511.36	1.43564E-02	47.39		
	24	529.49	4.93800E-03	59.60	Tol.	RB-83 I-133
M	25	561.17	4.38534E-03	66.53	Sum	
M	27	580.13	4.79612E-03	29.53	Sum	

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	31	734.84	9.46429E-03	35.46	Tol.	PA-234
	32	795.96	1.12144E-02	32.46	Sum	
	33	808.00	4.42551E-03	64.01	Sum	
	36	934.84	5.47222E-03	53.24	Sum	
M	37	965.15	7.67625E-03	40.13	Sum	
	39	1016.70	4.16667E-03	51.64		
	40	1025.17	4.39236E-03	60.66		
m	42	1123.62	4.47259E-03	74.25		
	43	1155.86	1.00681E-02	24.33	Sum	
	44	1163.04	6.14780E-03	48.87		
	45	1238.32	5.57893E-03	49.89		
M	46	1279.68	3.18363E-03	55.61		
m	47	1284.17	3.68394E-03	50.86		
	48	1331.87	3.33333E-03	48.23		
	49	1362.76	3.05556E-03	42.88	Sum	
M	50	1456.52	2.38507E-03	45.20		
	53	1676.80	2.22222E-03	46.77		
	54	1731.07	4.97685E-03	34.91	Sum	
	56	1841.97	2.55051E-03	42.18		
	57	1869.71	3.61111E-03	27.74		
	58	2103.75	3.34325E-03	37.39	S-Esc	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.96	1460.81	*	10.67	2.10E+01	2.97E+00
GA-67	0.69	93.31	*	35.70	5.51E+01	2.17E+02
		208.95	*	2.24	9.06E+02	3.44E+03
		300.22	*	16.00	1.93E+02	7.43E+02
BI-207	0.40	569.67	*	97.72	4.10E-02	5.85E-02
		1063.62		74.90		
TL-208	0.98	583.14	*	30.22	1.45E+00	2.91E-01

Analysis Report for 1507092-06

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.98	860.37	*	4.48	8.99E-01	1.18E+00
		2614.66	*	35.85	1.16E+00	3.00E-01
BI-212	0.99	727.17	*	11.80	1.23E+00	6.59E-01
		1620.62	*	2.75	2.22E+00	2.12E+00
PB-212	0.98	238.63	*	44.60	1.37E+00	2.05E-01
		300.09	*	3.41	2.41E+00	1.36E+00
BI-214	0.91	609.31	*	46.30	1.20E+00	2.72E-01
		1120.29	*	15.10	2.32E+00	6.35E-01
		1764.49	*	15.80	1.13E+00	5.77E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	1.64E+00	3.45E-01
		351.92	*	37.19	1.32E+00	2.29E-01
RA-224	0.86	240.98	*	3.95	3.87E+00	1.42E+00
RA-226	0.99	186.21	*	3.28	3.33E+00	6.37E+00
AC-228	0.99	338.32	*	11.40	1.93E+00	5.48E-01
		911.07	*	27.70	1.39E+00	4.16E-01
		969.11	*	16.60	1.57E+00	5.30E-01
TH-234	0.99	63.29	*	3.80	1.60E+00	1.62E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.964	2.10E+01	2.97E+00	
GA-67	0.690	6.32E+01	2.35E+02	
BI-207	0.401	4.10E-02	5.85E-02	
TL-208	0.985	1.29E+00	2.06E-01	
BI-212	0.992	1.32E+00	6.29E-01	
PB-212	0.989	1.38E+00	2.03E-01	
BI-214	0.912	1.34E+00	2.30E-01	
PB-214	0.997	1.42E+00	1.91E-01	
RA-224	0.861	3.87E+00	1.42E+00	

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
RA-226	0.992	3.33E+00	6.37E+00	
AC-228	0.990	1.58E+00	2.81E-01	
TH-234	0.991	1.60E+00	1.62E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507092-06

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:08:42AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	13.82	1.89295E-01	10.93		
	2	24.90	2.33208E-02	38.03	Tol.	TH-231
	4	76.35	2.28387E-01	6.30		
	10	270.99	1.89683E-02	35.09		
M	13	327.79	7.35950E-03	62.39		
M	15	349.21	5.38677E-03	50.00		
	17	375.36	9.85732E-03	43.81		
M	18	406.24	4.91366E-03	47.26		
m	19	410.18	6.21288E-03	57.06	Tol.	HO-166M
	20	463.30	7.98077E-03	53.78		
	21	485.65	8.67901E-03	46.38	Sum	
	22	492.01	4.69203E-03	57.17		
	23	511.36	1.43564E-02	47.39		
	24	529.49	4.93800E-03	59.60	Tol.	RB-83 I-133
M	25	561.17	4.38534E-03	66.53	Sum	
M	27	580.13	4.79612E-03	29.53	Sum	
	31	734.84	9.46429E-03	35.46	Tol.	PA-234
	32	795.96	1.12144E-02	32.46	Sum	
	33	808.00	4.42551E-03	64.01	Sum	
	36	934.84	5.47222E-03	53.24	Sum	
M	37	965.15	7.67625E-03	40.13	Sum	
	39	1016.70	4.16667E-03	51.64		
	40	1025.17	4.39236E-03	60.66		
m	42	1123.62	4.47259E-03	74.25		
	43	1155.86	1.00681E-02	24.33	Sum	
	44	1163.04	6.14780E-03	48.87		
	45	1238.32	5.57893E-03	49.89		
M	46	1279.68	3.18363E-03	55.61		
m	47	1284.17	3.68394E-03	50.86		
	48	1331.87	3.33333E-03	48.23		
	49	1362.76	3.05556E-03	42.88	Sum	
M	50	1456.52	2.38507E-03	45.20		
	53	1676.80	2.22222E-03	46.77		
	54	1731.07	4.97685E-03	34.91	Sum	

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
56	1841.97	2.55051E-03	42.18		
57	1869.71	3.61111E-03	27.74		
58	2103.75	3.34325E-03	37.39	S-Esc	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-1.42E-01	9.61E-01	9.61E-01
+	NA-22	1274.54		99.94	2.70E-02	1.33E-01	1.33E-01
+	NA-24	1368.53		99.99	-1.04E+12	3.88E+11	2.60E+12
		2754.09		99.86	0.00E+00		3.88E+11
+	AL-26	1808.65		99.76	-2.37E-02	4.88E-02	4.88E-02
+	K-40	1460.81	*	10.67	2.10E+01	1.70E+00	1.70E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.87E-02	6.75E-02	6.75E-02
		78.34		96.00	3.00E-01		1.00E-01
+	SC-46	889.25		99.98	1.29E-01	1.53E-01	1.53E-01
		1120.51		99.99	2.84E-01		2.32E-01
+	V-48	983.52		99.98	-1.15E-01	3.29E-01	3.29E-01
		1312.10		97.50	-2.06E-01		3.78E-01
+	CR-51	320.08		9.83	-5.69E-01	1.51E+00	1.51E+00
+	MN-54	834.83		99.97	-1.16E-02	1.02E-01	1.02E-01
+	CO-56	846.75		99.96	-4.26E-02	1.10E-01	1.32E-01
		1037.75		14.03	1.92E-02		1.04E+00
		1238.25		67.00	9.39E-02		2.80E-01
		1771.40		15.51	1.11E-01		6.79E-01
		2598.48		16.90	0.00E+00		1.10E-01
+	CO-57	122.06		85.51	-2.71E-02	7.51E-02	7.51E-02
		136.48		10.60	-4.49E-01		6.26E-01
+	CO-58	810.76		99.40	-9.03E-03	1.21E-01	1.21E-01
+	FE-59	1099.22		56.50	-2.15E-02	2.93E-01	2.93E-01
		1291.56		43.20	2.00E-01		3.94E-01
+	CO-60	1173.22		100.00	-1.40E-02	1.17E-01	1.17E-01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CO-60	1332.49		100.00	-2.93E-03	1.17E-01	1.18E-01
+	ZN-65	1115.52		50.75	-3.03E-03	2.14E-01	2.14E-01
+	GA-67	93.31	*	35.70	5.51E+01	9.23E+01	9.23E+01
		208.95	*	2.24	9.06E+02		1.60E+03
		300.22	*	16.00	1.93E+02		3.50E+02
+	SE-75	121.11		16.70	7.62E-02	1.25E-01	4.35E-01
		136.00		59.20	2.34E-02		1.25E-01
		264.65		59.80	9.67E-02		1.35E-01
		279.53		25.20	-1.32E-01		3.67E-01
		400.65		11.40	2.52E-01		7.72E-01
+	RB-82	776.52		13.00	5.14E-02	1.59E+00	1.59E+00
+	RB-83	520.41		46.00	-1.28E-02	2.00E-01	2.00E-01
		529.64		30.30	1.50E-01		3.10E-01
		552.65		16.40	4.67E-02		5.40E-01
+	KR-85	513.99		0.43	-2.80E+00	2.24E+01	2.24E+01
+	SR-85	513.99		99.27	-1.64E-02	1.31E-01	1.31E-01
+	Y-88	898.02		93.40	-9.45E-03	8.98E-02	1.28E-01
		1836.01		99.38	4.25E-03		8.98E-02
+	NB-93M	16.57		9.43	-4.70E+03	8.45E+03	8.45E+03
+	NB-94	702.63		100.00	6.80E-02	1.02E-01	1.02E-01
		871.10		100.00	1.97E-02		1.08E-01
+	NB-95	765.79		99.81	9.32E-02	1.93E-01	1.93E-01
+	NB-95M	235.69		25.00	-5.12E+02	8.61E+01	8.61E+01
+	ZR-95	724.18		43.70	4.42E-03	2.60E-01	3.88E-01
		756.72		55.30	2.39E-02		2.60E-01
+	MO-99	181.06		6.20	8.21E+02	8.64E+02	1.27E+03
		739.58		12.80	-2.04E+02		8.64E+02
		778.00		4.50	2.85E+02		2.44E+03
+	RU-103	497.08		89.00	4.08E-02	1.19E-01	1.19E-01
+	RU-106	621.84		9.80	-1.47E-01	9.35E-01	9.35E-01
+	AG-108M	433.93		89.90	-1.63E-02	7.31E-02	7.31E-02
		614.37		90.40	3.66E-02		1.08E-01
		722.95		90.50	1.67E-03		1.15E-01
+	CD-109	88.03		3.72	2.77E+00	2.43E+00	2.43E+00
+	AG-110M	657.75		93.14	3.58E-02	1.04E-01	1.04E-01
		677.61		10.53	8.31E-02		9.11E-01
		706.67		16.46	-6.46E-02		6.36E-01
		763.93		21.98	-4.73E-01		4.70E-01
		884.67		71.63	-1.91E-02		1.54E-01
		1384.27		23.94	-2.02E-02		4.53E-01
+	CD-113M	263.70		0.02	-7.15E+01	2.87E+02	2.87E+02
+	SN-113	255.12		1.93	7.54E-01	1.35E-01	4.41E+00
		391.69		64.90	1.06E-01		1.35E-01
+	TE123M	159.00		84.10	3.54E-02	9.17E-02	9.17E-02
+	SB-124	602.71		97.87	-2.10E-02	1.34E-01	1.34E-01
		645.85		7.26	-7.81E-01		1.66E+00
		722.78		11.10	1.88E-02		1.30E+00
		1691.02		49.00	8.07E-02		2.49E-01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-125	35.49	6.49	-3.24E+00	7.88E+00	7.88E+00
+	SB-125	176.33	6.89	-7.11E-02	2.40E-01	9.76E-01
		427.89	29.33	9.60E-03		2.40E-01
		463.38	10.35	6.11E-01		8.65E-01
		600.56	17.80	-7.21E-02		5.74E-01
		635.90	11.32	-1.99E-02		9.07E-01
+	SB-126	414.70	83.30	1.67E-01	4.11E-01	4.46E-01
		666.33	99.60	2.73E-01		5.05E-01
		695.00	99.60	-4.46E-02		4.11E-01
		720.50	53.80	1.13E-01		8.69E-01
+	SN-126	87.57	37.00	2.67E-01	2.35E-01	2.35E-01
+	SB-127	473.00	25.00	1.11E+01	3.81E+01	4.36E+01
		685.20	35.70	-1.33E+01		3.81E+01
		783.80	14.70	3.58E+01		9.88E+01
+	I-129	29.78	57.00	1.76E-02	1.65E+00	1.65E+00
		33.60	13.20	2.22E+00		3.82E+00
		39.58	7.52	-1.34E-01		2.95E+00
+	I-131	284.30	6.05	-3.77E+00	1.07E+00	1.33E+01
		364.48	81.20	4.18E-01		1.07E+00
		636.97	7.26	-1.07E+00		1.54E+01
		722.89	1.80	9.30E-01		6.42E+01
+	TE-132	49.72	13.10	1.50E+02	3.13E+01	3.46E+02
		228.16	88.00	8.78E+00		3.13E+01
+	BA-133	81.00	33.00	7.49E-02	1.20E-01	1.71E-01
		302.84	17.80	-4.03E-01		4.08E-01
		356.01	60.00	3.35E-02		1.20E-01
+	I-133	529.87	86.30	1.46E+08	4.32E+08	4.32E+08
+	XE-133	81.00	38.00	2.59E+00	5.90E+00	5.90E+00
+	CS-134	563.23	8.38	7.33E-02	1.14E-01	1.04E+00
		569.32	15.43	3.24E-02		5.41E-01
		604.70	97.60	1.04E-02		1.14E-01
		795.84	85.40	1.23E-01		1.39E-01
		801.93	8.73	1.48E-01		1.06E+00
+	CS-135	268.24	16.00	1.76E-01	4.81E-01	4.81E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	0.00E+00		1.00E+26
+	CS-136	153.22	7.46	2.72E+00	4.45E-01	4.01E+00
		163.89	4.61	-2.40E+00		6.22E+00
		176.55	13.56	-1.44E+00		2.07E+00
		273.65	12.66	-2.84E+00		2.59E+00
		340.57	48.50	-2.20E-01		8.09E-01
		818.50	99.70	2.50E-01		4.45E-01
		1048.07	79.60	-1.68E-03		6.40E-01
		1235.34	19.70	3.09E-01		3.23E+00
+	CS-137	661.65	85.12	-6.14E-02	1.06E-01	1.06E-01
+	LA-138	788.74	34.00	1.13E-02	1.52E-01	2.51E-01
		1435.80	66.00	-1.51E-02		1.52E-01
+	CE-139	165.85	80.35	6.94E-02	9.77E-02	9.77E-02

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BA-140	162.64	6.70	-1.98E+00	1.39E+00	4.37E+00
		304.84	4.50	2.30E+00		6.81E+00
		423.70	3.20	-2.32E-01		1.03E+01
		437.55	2.00	1.74E+00		1.73E+01
		537.32	25.00	-1.32E-01		1.39E+00
+	LA-140	328.77	20.50	3.56E-01	5.11E-01	1.71E+00
		487.03	45.50	1.10E-01		7.55E-01
		815.85	23.50	-3.71E-01		1.78E+00
		1596.49	95.49	8.24E-03		5.11E-01
+	CE-141	145.44	48.40	-6.98E-02	2.60E-01	2.60E-01
+	CE-143	57.36	11.80	-1.84E+05	3.19E+05	7.86E+05
		293.26	42.00	-1.12E+05		3.19E+05
		664.55	5.20	7.35E+05		2.59E+06
+	CE-144	133.54	10.80	2.93E-01	6.32E-01	6.32E-01
+	PM-144	476.78	42.00	-2.59E-02	8.53E-02	1.75E-01
		618.01	98.60	3.11E-02		1.05E-01
		696.49	99.49	-8.04E-02		8.53E-02
+	PM-145	36.85	21.70	-9.20E-02	7.36E-01	1.43E+00
		37.36	39.70	-4.73E-02		7.36E-01
		42.30	15.10	6.29E-02		1.17E+00
		72.40	2.31	9.89E-02		2.81E+00
+	PM-146	453.90	39.94	4.13E-03	1.83E-01	1.83E-01
		735.90	14.01	3.04E-01		7.45E-01
		747.13	13.10	-5.10E-01		7.24E-01
+	ND-147	91.11	28.90	-2.29E-01	1.65E+00	1.65E+00
		531.02	13.10	4.23E-01		3.41E+00
+	PM-149	285.90	3.10	-3.72E+03	1.47E+04	1.47E+04
+	EU-152	121.78	20.50	-1.06E-01	2.92E-01	2.92E-01
		244.69	5.40	1.26E-01		1.40E+00
		344.27	19.13	4.89E-02		3.60E-01
		778.89	9.20	-1.56E-01		1.03E+00
		964.01	10.40	-2.65E+00		1.24E+00
		1085.78	7.22	3.61E-01		1.68E+00
		1112.02	9.60	2.79E-01		1.18E+00
		1407.95	14.94	2.95E-02		6.66E-01
+	GD-153	97.43	31.30	-3.21E-02	2.08E-01	2.08E-01
		103.18	22.20	-2.12E-01		2.91E-01
+	EU-154	123.07	40.50	-5.86E-02	1.47E-01	1.47E-01
		723.30	19.70	7.71E-03		5.33E-01
		873.19	11.50	-3.02E-01		9.03E-01
		996.32	10.30	-3.94E-01		9.09E-01
		1004.76	17.90	-8.39E-02		5.92E-01
		1274.45	35.50	7.49E-02		3.70E-01
+	EU-155	86.50	30.90	-2.24E-02	2.79E-01	2.79E-01
		105.30	20.70	-4.56E-02		2.98E-01
+	EU-156	811.77	10.40	-4.53E-01	2.84E+00	2.84E+00
		1153.47	7.20	-6.26E-01		7.25E+00
		1230.71	8.90	1.40E+00		4.84E+00
+	HO-166M	184.41	72.60	6.14E-02	1.19E-01	1.19E-01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	280.45		29.60	-9.61E-02	1.19E-01	2.66E-01
		410.94		11.10	2.04E-01		7.51E-01
		711.69		54.10	-1.47E-02		1.70E-01
+	TM-171	66.72		0.14	2.48E+01	4.70E+01	4.70E+01
+	HF-172	81.75		4.52	-8.04E-01	5.74E-01	1.25E+00
		125.81		11.30	-1.72E-01		5.74E-01
+	LU-172	181.53		20.60	2.83E+00	3.28E+00	6.15E+00
		810.06		16.63	-7.36E-01		9.90E+00
		912.12		15.25	5.06E+01		2.37E+01
		1093.66		62.50	1.58E-01		3.28E+00
+	LU-173	100.72		5.24	3.00E-01	4.18E-01	1.21E+00
		272.11		21.20	4.12E-01		4.18E-01
+	HF-175	343.40		84.00	5.15E-02	1.14E-01	1.14E-01
+	LU-176	88.34		13.30	7.43E-01	7.44E-02	6.53E-01
		201.83		86.00	-9.90E-03		8.86E-02
		306.78		94.00	1.23E-02		7.44E-02
+	TA-182	67.75		41.20	1.05E-01	1.83E-01	1.83E-01
		1121.30		34.90	9.21E-01		6.36E-01
		1189.05		16.23	5.26E-01		9.35E-01
		1221.41		26.98	2.17E-01		5.61E-01
		1231.02		11.44	-1.27E-01		1.23E+00
+	IR-192	308.46		29.68	-3.57E-03	1.82E-01	3.13E-01
		468.07		48.10	-9.34E-03		1.82E-01
+	HG-203	279.19		77.30	2.51E-02	1.59E-01	1.59E-01
+	BI-207	569.67	*	97.72	4.10E-02	1.48E-01	2.64E-01
		1063.62		74.90	-1.71E-02		1.48E-01
+	TL-208	583.14	*	30.22	1.45E+00	2.27E-01	3.41E-01
		860.37	*	4.48	8.99E-01		1.94E+00
		2614.66	*	35.85	1.16E+00		2.27E-01
+	BI-210M	262.00		45.00	1.37E-01	1.54E-01	1.54E-01
		300.00		23.00	1.85E-01		3.65E-01
+	PB-210	46.50		4.25	1.98E+00	3.59E+00	3.59E+00
+	PB-211	404.84		2.90	-7.21E-02	2.40E+00	2.40E+00
		831.96		2.90	-1.93E+00		3.16E+00
+	BI-212	727.17	*	11.80	1.23E+00	9.77E-01	9.77E-01
		1620.62	*	2.75	2.22E+00		3.26E+00
+	PB-212	238.63	*	44.60	1.37E+00	2.99E-01	2.99E-01
		300.09	*	3.41	2.41E+00		4.36E+00
+	BI-214	609.31	*	46.30	1.20E+00	3.40E-01	3.40E-01
		1120.29	*	15.10	2.32E+00		1.07E+00
		1764.49	*	15.80	1.13E+00		7.76E-01
		2204.22		4.98	5.63E-01		2.16E+00
+	PB-214	295.21	*	19.19	1.64E+00	3.01E-01	7.79E-01
		351.92	*	37.19	1.32E+00		3.01E-01
+	RN-219	401.80		6.50	7.31E-01	1.14E+00	1.14E+00
+	RA-223	323.87		3.88	-1.65E-02	1.93E+00	1.93E+00
+	RA-224	240.98	*	3.95	3.87E+00	3.37E+00	3.37E+00
+	RA-225	40.00		31.00	-1.16E-01	2.54E+00	2.54E+00

Analysis Report for 1507092-06

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-226	186.21	*	3.28	3.33E+00	2.94E+00	2.94E+00
+	TH-227	50.10		8.40	6.08E-01	8.83E-01	1.40E+00
		236.00		11.50	-5.25E+00		8.83E-01
		256.20		6.30	-7.71E-03		1.11E+00
+	AC-228	338.32	*	11.40	1.93E+00	5.37E-01	1.65E+00
		911.07	*	27.70	1.39E+00		5.37E-01
		969.11	*	16.60	1.57E+00		1.07E+00
+	TH-230	48.44		16.90	-6.60E-01	7.38E-01	7.38E-01
		62.85		4.60	1.81E+00		1.69E+00
		67.67		0.37	9.88E+00		1.72E+01
+	PA-231	283.67		1.60	-1.28E+00	3.14E+00	4.54E+00
		302.67		2.30	-3.10E+00		3.14E+00
+	TH-231	25.64		14.70	8.90E+00	9.31E-01	2.23E+01
		84.21		6.40	6.11E-01		9.31E-01
+	PA-233	311.98		38.60	-2.68E-01	3.69E-01	3.69E-01
+	PA-234	131.20		20.40	3.82E-02	3.23E-01	3.23E-01
		733.99		8.80	1.20E+00		1.28E+00
		946.00		12.00	-1.84E-01		8.88E-01
+	PA-234M	1001.03		0.92	2.81E+00	1.16E+01	1.16E+01
+	TH-234	63.29	*	3.80	1.60E+00	2.64E+00	2.64E+00
+	U-235	143.76		10.50	1.57E-01	6.60E-01	6.60E-01
		163.35		4.70	-6.25E-01		1.38E+00
		205.31		4.70	4.66E-01		1.65E+00
+	NP-237	86.50		12.60	-5.43E-02	6.76E-01	6.76E-01
+	NP-239	106.10		22.70	6.10E+02	1.02E+03	1.02E+03
		228.18		10.70	7.04E+02		2.51E+03
		277.60		14.10	1.34E+03		2.11E+03
+	AM-241	59.54		35.90	1.40E-02	1.84E-01	1.84E-01
+	AM-243	74.67		66.00	-1.30E-01	1.42E-01	1.42E-01
+	CM-243	209.75		3.29	1.74E+00	5.78E-01	2.37E+00
		228.14		10.60	1.93E-01		6.88E-01
		277.60		14.00	3.66E-01		5.78E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1507092-06

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	9.61E-01	9.61E-01	-1.42E-01	4.44E-01
	NA-22	1274.54		99.94	1.33E-01	1.33E-01	2.70E-02	6.08E-02
	NA-24	1368.53		99.99	2.60E+12	3.88E+11	-1.04E+12	1.13E+12
		2754.09		99.86	3.88E+11		0.00E+00	0.00E+00
	AL-26	1808.65		99.76	4.88E-02	4.88E-02	-2.37E-02	1.73E-02
+	K-40	1460.81	*	10.67	1.70E+00	1.70E+00	2.10E+01	7.93E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.75E-02	6.75E-02	3.87E-02	3.25E-02
		78.34		96.00	1.00E-01		3.00E-01	4.89E-02
	SC-46	889.25		99.98	1.53E-01	1.53E-01	1.29E-01	7.10E-02
		1120.51		99.99	2.32E-01		2.84E-01	1.09E-01
	V-48	983.52		99.98	3.29E-01	3.29E-01	-1.15E-01	1.49E-01
		1312.10		97.50	3.78E-01		-2.06E-01	1.69E-01
	CR-51	320.08		9.83	1.51E+00	1.51E+00	-5.69E-01	7.16E-01
	MN-54	834.83		99.97	1.02E-01	1.02E-01	-1.16E-02	4.69E-02
	CO-56	846.75		99.96	1.32E-01	1.10E-01	-4.26E-02	6.05E-02
		1037.75		14.03	1.04E+00		1.92E-02	4.74E-01
		1238.25		67.00	2.80E-01		9.39E-02	1.29E-01
		1771.40		15.51	6.79E-01		1.11E-01	2.82E-01
		2598.48		16.90	1.10E-01		0.00E+00	0.00E+00
	CO-57	122.06		85.51	7.51E-02	7.51E-02	-2.71E-02	3.61E-02
		136.48		10.60	6.26E-01		-4.49E-01	3.01E-01
	CO-58	810.76		99.40	1.21E-01	1.21E-01	-9.03E-03	5.55E-02
	FE-59	1099.22		56.50	2.93E-01	2.93E-01	-2.15E-02	1.33E-01
		1291.56		43.20	3.94E-01		2.00E-01	1.77E-01
	CO-60	1173.22		100.00	1.17E-01	1.17E-01	-1.40E-02	5.33E-02
		1332.49		100.00	1.18E-01		-2.93E-03	5.31E-02
	ZN-65	1115.52		50.75	2.14E-01	2.14E-01	-3.03E-03	9.60E-02
+	GA-67	93.31	*	35.70	9.23E+01	9.23E+01	5.51E+01	4.51E+01
		208.95	*	2.24	1.60E+03		9.06E+02	7.77E+02
		300.22	*	16.00	3.50E+02		1.93E+02	1.70E+02
	SE-75	121.11		16.70	4.35E-01	1.25E-01	7.62E-02	2.10E-01
		136.00		59.20	1.25E-01		2.34E-02	6.01E-02
		264.65		59.80	1.35E-01		9.67E-02	6.39E-02
		279.53		25.20	3.67E-01		-1.32E-01	1.75E-01
		400.65		11.40	7.72E-01		2.52E-01	3.62E-01
	RB-82	776.52		13.00	1.59E+00	1.59E+00	5.14E-02	7.32E-01
	RB-83	520.41		46.00	2.00E-01	2.00E-01	-1.28E-02	9.23E-02
		529.64		30.30	3.10E-01		1.50E-01	1.43E-01
		552.65		16.40	5.40E-01		4.67E-02	2.47E-01
	KR-85	513.99		0.43	2.24E+01	2.24E+01	-2.80E+00	1.05E+01
	SR-85	513.99		99.27	1.31E-01	1.31E-01	-1.64E-02	6.18E-02
	Y-88	898.02		93.40	1.28E-01	8.98E-02	-9.45E-03	5.85E-02
		1836.01		99.38	8.98E-02		4.25E-03	3.63E-02
	NB-93M	16.57		9.43	8.45E+03	8.45E+03	-4.70E+03	4.10E+03

Analysis Report for 1507092-06

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
NB-94	702.63	100.00	1.02E-01	1.02E-01	6.80E-02	4.75E-02
	871.10	100.00	1.08E-01		1.97E-02	5.00E-02
NB-95	765.79	99.81	1.93E-01	1.93E-01	9.32E-02	8.98E-02
NB-95M	235.69	25.00	8.61E+01	8.61E+01	-5.12E+02	4.17E+01
ZR-95	724.18	43.70	3.88E-01	2.60E-01	4.42E-03	1.83E-01
	756.72	55.30	2.60E-01		2.39E-02	1.21E-01
MO-99	181.06	6.20	1.27E+03	8.64E+02	8.21E+02	6.09E+02
	739.58	12.80	8.64E+02		-2.04E+02	3.99E+02
	778.00	4.50	2.44E+03		2.85E+02	1.12E+03
RU-103	497.08	89.00	1.19E-01	1.19E-01	4.08E-02	5.44E-02
RU-106	621.84	9.80	9.35E-01	9.35E-01	-1.47E-01	4.33E-01
AG-108M	433.93	89.90	7.31E-02	7.31E-02	-1.63E-02	3.38E-02
	614.37	90.40	1.08E-01		3.66E-02	5.04E-02
	722.95	90.50	1.15E-01		1.67E-03	5.37E-02
CD-109	88.03	3.72	2.43E+00	2.43E+00	2.77E+00	1.19E+00
AG-110M	657.75	93.14	1.04E-01	1.04E-01	3.58E-02	4.83E-02
	677.61	10.53	9.11E-01		8.31E-02	4.20E-01
	706.67	16.46	6.36E-01		-6.46E-02	2.95E-01
	763.93	21.98	4.70E-01		-4.73E-01	2.16E-01
	884.67	71.63	1.54E-01		-1.91E-02	7.06E-02
	1384.27	23.94	4.53E-01		-2.02E-02	1.99E-01
CD-113M	263.70	0.02	2.87E+02	2.87E+02	-7.15E+01	1.36E+02
SN-113	255.12	1.93	4.41E+00	1.35E-01	7.54E-01	2.10E+00
	391.69	64.90	1.35E-01		1.06E-01	6.34E-02
TE123M	159.00	84.10	9.17E-02	9.17E-02	3.54E-02	4.41E-02
SB-124	602.71	97.87	1.34E-01	1.34E-01	-2.10E-02	6.28E-02
	645.85	7.26	1.66E+00		-7.81E-01	7.65E-01
	722.78	11.10	1.30E+00		1.88E-02	6.03E-01
	1691.02	49.00	2.49E-01		8.07E-02	1.05E-01
I-125	35.49	6.49	7.88E+00	7.88E+00	-3.24E+00	3.81E+00
SB-125	176.33	6.89	9.76E-01	2.40E-01	-7.11E-02	4.68E-01
	427.89	29.33	2.40E-01		9.60E-03	1.12E-01
	463.38	10.35	8.65E-01		6.11E-01	4.07E-01
	600.56	17.80	5.74E-01		-7.21E-02	2.69E-01
	635.90	11.32	9.07E-01		-1.99E-02	4.24E-01
SB-126	414.70	83.30	4.46E-01	4.11E-01	1.67E-01	2.09E-01
	666.33	99.60	5.05E-01		2.73E-01	2.36E-01
	695.00	99.60	4.11E-01		-4.46E-02	1.89E-01
	720.50	53.80	8.69E-01		1.13E-01	4.03E-01
SN-126	87.57	37.00	2.35E-01	2.35E-01	2.67E-01	1.15E-01
SB-127	473.00	25.00	4.36E+01	3.81E+01	1.11E+01	2.02E+01
	685.20	35.70	3.81E+01		-1.33E+01	1.76E+01
	783.80	14.70	9.88E+01		3.58E+01	4.54E+01
I-129	29.78	57.00	1.65E+00	1.65E+00	1.76E-02	7.97E-01
	33.60	13.20	3.82E+00		2.22E+00	1.85E+00
	39.58	7.52	2.95E+00		-1.34E-01	1.43E+00
I-131	284.30	6.05	1.33E+01	1.07E+00	-3.77E+00	6.33E+00
	364.48	81.20	1.07E+00		4.18E-01	5.07E-01
	636.97	7.26	1.54E+01		-1.07E+00	7.20E+00
	722.89	1.80	6.42E+01		9.30E-01	2.99E+01
TE-132	49.72	13.10	3.46E+02	3.13E+01	1.50E+02	1.67E+02
	228.16	88.00	3.13E+01		8.78E+00	1.50E+01
BA-133	81.00	33.00	1.71E-01	1.20E-01	7.49E-02	8.22E-02

Analysis Report for 1507092-06

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-133	302.84	17.80	4.08E-01	1.20E-01	-4.03E-01	1.93E-01
	356.01	60.00	1.20E-01		3.35E-02	5.63E-02
I-133	529.87	86.30	4.32E+08	4.32E+08	1.46E+08	2.00E+08
XE-133	81.00	38.00	5.90E+00	5.90E+00	2.59E+00	2.84E+00
CS-134	563.23	8.38	1.04E+00	1.14E-01	7.33E-02	4.83E-01
	569.32	15.43	5.41E-01		3.24E-02	2.51E-01
	604.70	97.60	1.14E-01		1.04E-02	5.37E-02
	795.84	85.40	1.39E-01		1.23E-01	6.50E-02
	801.93	8.73	1.06E+00		1.48E-01	4.83E-01
CS-135	268.24	16.00	4.81E-01	4.81E-01	1.76E-01	2.29E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		0.00E+00	1.00E+20
CS-136	153.22	7.46	4.01E+00	4.45E-01	2.72E+00	1.93E+00
	163.89	4.61	6.22E+00		-2.40E+00	2.99E+00
	176.55	13.56	2.07E+00		-1.44E+00	9.91E-01
	273.65	12.66	2.59E+00		-2.84E+00	1.23E+00
	340.57	48.50	8.09E-01		-2.20E-01	3.86E-01
	818.50	99.70	4.45E-01		2.50E-01	2.05E-01
	1048.07	79.60	6.40E-01		-1.68E-03	2.93E-01
	1235.34	19.70	3.23E+00		3.09E-01	1.49E+00
CS-137	661.65	85.12	1.06E-01	1.06E-01	-6.14E-02	4.92E-02
LA-138	788.74	34.00	2.51E-01	1.52E-01	1.13E-02	1.14E-01
	1435.80	66.00	1.52E-01		-1.51E-02	6.67E-02
CE-139	165.85	80.35	9.77E-02	9.77E-02	6.94E-02	4.70E-02
BA-140	162.64	6.70	4.37E+00	1.39E+00	-1.98E+00	2.10E+00
	304.84	4.50	6.81E+00		2.30E+00	3.21E+00
	423.70	3.20	1.03E+01		-2.32E-01	4.82E+00
	437.55	2.00	1.73E+01		1.74E+00	8.07E+00
	537.32	25.00	1.39E+00		-1.32E-01	6.43E-01
LA-140	328.77	20.50	1.71E+00	5.11E-01	3.56E-01	8.11E-01
	487.03	45.50	7.55E-01		1.10E-01	3.51E-01
	815.85	23.50	1.78E+00		-3.71E-01	8.14E-01
	1596.49	95.49	5.11E-01		8.24E-03	2.24E-01
CE-141	145.44	48.40	2.60E-01	2.60E-01	-6.98E-02	1.26E-01
CE-143	57.36	11.80	7.86E+05	3.19E+05	-1.84E+05	3.78E+05
	293.26	42.00	3.19E+05		-1.12E+05	1.54E+05
	664.55	5.20	2.59E+06		7.35E+05	1.21E+06
CE-144	133.54	10.80	6.32E-01	6.32E-01	2.93E-01	3.05E-01
PM-144	476.78	42.00	1.75E-01	8.53E-02	-2.59E-02	8.08E-02
	618.01	98.60	1.05E-01		3.11E-02	4.93E-02
	696.49	99.49	8.53E-02		-8.04E-02	3.89E-02
PM-145	36.85	21.70	1.43E+00	7.36E-01	-9.20E-02	6.93E-01
	37.36	39.70	7.36E-01		-4.73E-02	3.56E-01
	42.30	15.10	1.17E+00		6.29E-02	5.65E-01
	72.40	2.31	2.81E+00		9.89E-02	1.36E+00
PM-146	453.90	39.94	1.83E-01	1.83E-01	4.13E-03	8.53E-02
	735.90	14.01	7.45E-01		3.04E-01	3.46E-01
	747.13	13.10	7.24E-01		-5.10E-01	3.33E-01
ND-147	91.11	28.90	1.65E+00	1.65E+00	-2.29E-01	8.03E-01
	531.02	13.10	3.41E+00		4.23E-01	1.58E+00
PM-149	285.90	3.10	1.47E+04	1.47E+04	-3.72E+03	6.96E+03
EU-152	121.78	20.50	2.92E-01	2.92E-01	-1.06E-01	1.41E-01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	1.40E+00	2.92E-01	1.26E-01	6.67E-01
		344.27		19.13	3.60E-01		4.89E-02	1.69E-01
		778.89		9.20	1.03E+00		-1.56E-01	4.72E-01
		964.01		10.40	1.24E+00		-2.65E+00	5.76E-01
		1085.78		7.22	1.68E+00		3.61E-01	7.69E-01
		1112.02		9.60	1.18E+00		2.79E-01	5.37E-01
		1407.95		14.94	6.66E-01		2.95E-02	2.92E-01
	GD-153	97.43		31.30	2.08E-01	2.08E-01	-3.21E-02	1.00E-01
		103.18		22.20	2.91E-01		-2.12E-01	1.40E-01
	EU-154	123.07		40.50	1.47E-01	1.47E-01	-5.86E-02	7.09E-02
		723.30		19.70	5.33E-01		7.71E-03	2.48E-01
		873.19		11.50	9.03E-01		-3.02E-01	4.15E-01
		996.32		10.30	9.09E-01		-3.94E-01	4.09E-01
		1004.76		17.90	5.92E-01		-8.39E-02	2.70E-01
		1274.45		35.50	3.70E-01		7.49E-02	1.69E-01
	EU-155	86.50		30.90	2.79E-01	2.79E-01	-2.24E-02	1.36E-01
		105.30		20.70	2.98E-01		-4.56E-02	1.44E-01
	EU-156	811.77		10.40	2.84E+00	2.84E+00	-4.53E-01	1.28E+00
		1153.47		7.20	7.25E+00		-6.26E-01	3.36E+00
		1230.71		8.90	4.84E+00		1.40E+00	2.20E+00
	HO-166M	184.41		72.60	1.19E-01	1.19E-01	6.14E-02	5.77E-02
		280.45		29.60	2.66E-01		-9.61E-02	1.27E-01
		410.94		11.10	7.51E-01		2.04E-01	3.54E-01
		711.69		54.10	1.70E-01		-1.47E-02	7.86E-02
	TM-171	66.72		0.14	4.70E+01	4.70E+01	2.48E+01	2.27E+01
	HF-172	81.75		4.52	1.25E+00	5.74E-01	-8.04E-01	5.99E-01
		125.81		11.30	5.74E-01		-1.72E-01	2.77E-01
	LU-172	181.53		20.60	6.15E+00	3.28E+00	2.83E+00	2.95E+00
		810.06		16.63	9.90E+00		-7.36E-01	4.52E+00
		912.12		15.25	2.37E+01		5.06E+01	1.13E+01
		1093.66		62.50	3.28E+00		1.58E-01	1.50E+00
	LU-173	100.72		5.24	1.21E+00	4.18E-01	3.00E-01	5.83E-01
		272.11		21.20	4.18E-01		4.12E-01	2.00E-01
	HF-175	343.40		84.00	1.14E-01	1.14E-01	5.15E-02	5.36E-02
	LU-176	88.34		13.30	6.53E-01	7.44E-02	7.43E-01	3.19E-01
		201.83		86.00	8.86E-02		-9.90E-03	4.26E-02
		306.78		94.00	7.44E-02		1.23E-02	3.51E-02
	TA-182	67.75		41.20	1.83E-01	1.83E-01	1.05E-01	8.83E-02
		1121.30		34.90	6.36E-01		9.21E-01	3.01E-01
		1189.05		16.23	9.35E-01		5.26E-01	4.28E-01
		1221.41		26.98	5.61E-01		2.17E-01	2.56E-01
		1231.02		11.44	1.23E+00		-1.27E-01	5.58E-01
	IR-192	308.46		29.68	3.13E-01	1.82E-01	-3.57E-03	1.48E-01
		468.07		48.10	1.82E-01		-9.34E-03	8.40E-02
	HG-203	279.19		77.30	1.59E-01	1.59E-01	2.51E-02	7.59E-02
+	BI-207	569.67	*	97.72	2.64E-01	1.48E-01	4.10E-02	1.29E-01
		1063.62		74.90	1.48E-01		-1.71E-02	6.72E-02
+	TL-208	583.14	*	30.22	3.41E-01	2.27E-01	1.45E+00	1.60E-01
		860.37	*	4.48	1.94E+00		8.99E-01	8.77E-01
		2614.66	*	35.85	2.27E-01		1.16E+00	9.34E-02
	BI-210M	262.00		45.00	1.54E-01	1.54E-01	1.37E-01	7.30E-02
		300.00		23.00	3.65E-01		1.85E-01	1.74E-01
	PB-210	46.50		4.25	3.59E+00	3.59E+00	1.98E+00	1.74E+00

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	2.40E+00	2.40E+00	-7.21E-02	1.12E+00
		831.96		2.90	3.16E+00		-1.93E+00	1.44E+00
+	BI-212	727.17	*	11.80	9.77E-01	9.77E-01	1.23E+00	4.58E-01
		1620.62	*	2.75	3.26E+00		2.22E+00	1.39E+00
+	PB-212	238.63	*	44.60	2.99E-01	2.99E-01	1.37E+00	1.46E-01
		300.09	*	3.41	4.36E+00		2.41E+00	2.12E+00
+	BI-214	609.31	*	46.30	3.40E-01	3.40E-01	1.20E+00	1.63E-01
		1120.29	*	15.10	1.07E+00		2.32E+00	5.03E-01
		1764.49	*	15.80	7.76E-01		1.13E+00	3.44E-01
		2204.22		4.98	2.16E+00		5.63E-01	9.30E-01
+	PB-214	295.21	*	19.19	7.79E-01	3.01E-01	1.64E+00	3.80E-01
		351.92	*	37.19	3.01E-01		1.32E+00	1.45E-01
	RN-219	401.80		6.50	1.14E+00	1.14E+00	7.31E-01	5.34E-01
	RA-223	323.87		3.88	1.93E+00	1.93E+00	-1.65E-02	9.14E-01
+	RA-224	240.98	*	3.95	3.37E+00	3.37E+00	3.87E+00	1.64E+00
	RA-225	40.00		31.00	2.54E+00	2.54E+00	-1.16E-01	1.23E+00
+	RA-226	186.21	*	3.28	2.94E+00	2.94E+00	3.33E+00	1.43E+00
	TH-227	50.10		8.40	1.40E+00	8.83E-01	6.08E-01	6.78E-01
		236.00		11.50	8.83E-01		-5.25E+00	4.27E-01
		256.20		6.30	1.11E+00		-7.71E-03	5.28E-01
+	AC-228	338.32	*	11.40	1.65E+00	5.37E-01	1.93E+00	8.08E-01
		911.07	*	27.70	5.37E-01		1.39E+00	2.53E-01
		969.11	*	16.60	1.07E+00		1.57E+00	5.07E-01
	TH-230	48.44		16.90	7.38E-01	7.38E-01	-6.60E-01	3.58E-01
		62.85		4.60	1.69E+00		1.81E+00	8.18E-01
		67.67		0.37	1.72E+01		9.88E+00	8.31E+00
	PA-231	283.67		1.60	4.54E+00	3.14E+00	-1.28E+00	2.16E+00
		302.67		2.30	3.14E+00		-3.10E+00	1.49E+00
	TH-231	25.64		14.70	2.23E+01	9.31E-01	8.90E+00	1.08E+01
		84.21		6.40	9.31E-01		6.11E-01	4.49E-01
	PA-233	311.98		38.60	3.69E-01	3.69E-01	-2.68E-01	1.74E-01
	PA-234	131.20		20.40	3.23E-01	3.23E-01	3.82E-02	1.56E-01
		733.99		8.80	1.28E+00		1.20E+00	5.98E-01
		946.00		12.00	8.88E-01		-1.84E-01	4.07E-01
	PA-234M	1001.03		0.92	1.16E+01	1.16E+01	2.81E+00	5.27E+00
+	TH-234	63.29	*	3.80	2.64E+00	2.64E+00	1.60E+00	1.29E+00
	U-235	143.76		10.50	6.60E-01	6.60E-01	1.57E-01	3.18E-01
		163.35		4.70	1.38E+00		-6.25E-01	6.61E-01
		205.31		4.70	1.65E+00		4.66E-01	7.92E-01
	NP-237	86.50		12.60	6.76E-01	6.76E-01	-5.43E-02	3.30E-01
	NP-239	106.10		22.70	1.02E+03	1.02E+03	6.10E+02	4.94E+02
		228.18		10.70	2.51E+03		7.04E+02	1.20E+03
		277.60		14.10	2.11E+03		1.34E+03	1.01E+03
	AM-241	59.54		35.90	1.84E-01	1.84E-01	1.40E-02	8.81E-02
	AM-243	74.67		66.00	1.42E-01	1.42E-01	-1.30E-01	6.91E-02
	CM-243	209.75		3.29	2.37E+00	5.78E-01	1.74E+00	1.14E+00
		228.14		10.60	6.88E-01		1.93E-01	3.29E-01
		277.60		14.00	5.78E-01		3.66E-01	2.76E-01

Analysis Report for 1507092-06

FEEBRIS1D-10 046-049

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** SPECTRAL DATA REPORT *****
****

Sample Title: FEEBRIS1D-10 046-049

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	153
9:	507	1101	860	393	699	1740	231	158
17:	115	111	110	103	102	91	78	121
25:	104	106	90	74	85	81	81	86
33:	83	124	104	88	104	103	98	88
41:	91	89	104	96	108	120	163	101
49:	112	104	115	96	85	101	77	61
57:	73	71	72	58	60	67	108	133
65:	81	63	91	80	67	66	91	84
73:	97	102	316	181	319	284	58	77
81:	77	70	67	91	101	69	143	162
89:	71	125	79	83	148	107	64	54
97:	43	49	63	56	57	52	43	51
105:	54	67	53	59	50	49	54	46
113:	48	40	51	53	47	49	64	48
121:	39	49	49	46	43	53	56	53
129:	59	59	41	59	47	50	38	49
137:	42	52	41	58	41	57	50	52
145:	56	51	55	57	43	35	43	55
153:	46	56	44	41	47	32	47	47
161:	38	34	47	51	28	45	52	41
169:	24	47	36	36	39	47	37	36
177:	35	32	38	43	48	41	31	44
185:	62	131	59	47	36	38	28	35
193:	35	48	38	37	39	35	37	40
201:	50	32	43	45	48	35	41	37
209:	50	58	34	30	26	32	39	27
217:	46	24	30	41	21	37	36	45
225:	37	41	34	29	27	30	24	36
233:	27	27	29	31	33	187	373	70
241:	80	107	45	31	21	26	33	29
249:	27	31	26	29	30	27	16	29
257:	32	22	22	26	26	13	27	27
265:	9	30	22	17	25	50	36	37
273:	24	28	21	24	41	35	16	36
281:	24	31	27	19	24	17	28	28
289:	25	20	22	24	22	27	144	104
297:	24	17	27	50	33	20	23	12
305:	18	22	16	14	27	22	22	14
313:	21	15	25	24	22	23	18	15
321:	24	23	26	14	20	21	22	34
329:	24	15	14	19	16	20	25	16
337:	26	75	72	22	22	11	16	19
345:	21	12	18	15	27	16	92	225
353:	79	15	14	13	18	22	14	13
361:	11	21	30	18	13	15	18	15

369:	24	16	10	13	15	14	19	23

Sample Title: FEEBRIS1D-10 046-049

Channel								
377:	17	9	11	18	18	12	12	11
385:	8	10	17	17	8	15	13	18
393:	18	13	9	13	15	19	10	22
401:	15	17	12	8	9	21	14	11
409:	23	27	11	19	12	17	18	17
417:	15	11	11	12	20	19	10	15
425:	14	8	14	10	17	9	10	8
433:	9	12	13	9	14	13	20	15
441:	15	14	13	16	10	20	10	14
449:	17	6	8	17	9	15	11	7
457:	14	14	14	11	10	16	30	20
465:	10	7	12	8	10	11	14	10
473:	9	12	9	8	8	13	12	15
481:	8	9	10	13	15	15	12	9
489:	7	6	14	9	9	5	3	5
497:	10	10	12	10	7	10	10	8
505:	17	11	14	16	11	42	75	41
513:	20	11	11	7	9	6	12	9
521:	11	11	15	9	6	6	5	7
529:	19	10	9	6	8	10	12	9
537:	13	8	9	19	5	10	6	9
545:	9	8	7	6	9	9	7	6
553:	12	7	9	7	12	5	13	14
561:	17	8	13	12	9	13	7	6
569:	17	15	8	9	10	6	7	12
577:	11	5	5	15	6	36	108	71
585:	15	6	4	10	5	12	7	7
593:	13	6	10	12	17	12	12	10
601:	6	9	10	13	11	9	9	28
609:	142	121	8	10	8	6	10	15
617:	12	10	6	10	7	7	11	5
625:	7	9	4	10	10	9	11	11
633:	8	11	13	13	7	6	12	8
641:	11	11	6	7	10	4	12	7
649:	4	9	8	9	1	2	12	6
657:	6	6	8	4	10	10	7	7
665:	12	16	9	9	12	5	4	7
673:	9	3	7	10	6	6	8	8
681:	5	5	12	6	6	8	6	5
689:	12	8	6	11	7	9	3	8
697:	1	4	5	8	12	10	11	6
705:	9	10	4	7	7	7	6	6
713:	10	5	7	8	8	9	8	8
721:	8	7	6	8	12	12	37	18
729:	8	3	9	10	9	9	8	15
737:	10	0	7	3	5	11	14	9
745:	6	8	4	10	6	3	11	6
753:	6	8	11	11	8	10	5	9
761:	6	7	6	8	4	8	7	16
769:	14	7	5	9	6	6	10	5
777:	8	6	5	7	5	7	5	7
785:	11	7	2	4	3	4	3	6
793:	2	7	19	17	5	8	7	4

801:	4	8	6	4	4	7	12	5

Sample Title: FEEBRIS1D-10 046-049

Channel								
809:	5	6	1	4	5	4	9	5
817:	7	5	3	10	8	5	2	7
825:	6	6	10	5	5	9	6	5
833:	4	2	5	13	3	8	4	6
841:	8	8	4	7	7	6	5	7
849:	9	8	8	7	6	3	7	6
857:	8	5	5	10	18	2	5	5
865:	10	6	7	6	10	6	5	3
873:	6	12	6	5	10	5	2	5
881:	4	8	5	5	2	9	8	11
889:	7	9	9	6	4	4	7	7
897:	4	3	6	4	7	7	7	5
905:	5	5	4	7	11	30	69	31
913:	14	3	7	7	1	2	6	6
921:	2	5	4	6	0	6	8	7
929:	2	5	1	5	4	14	10	5
937:	7	4	5	9	4	7	7	4
945:	6	7	7	2	7	5	10	5
953:	3	5	2	3	6	6	9	8
961:	4	3	6	15	17	6	7	20
969:	42	21	6	5	4	3	5	4
977:	5	5	8	6	6	3	7	3
985:	3	3	6	5	3	3	1	3
993:	2	5	6	6	1	3	4	9
1001:	7	5	5	3	5	4	6	6
1009:	4	6	5	9	4	2	9	6
1017:	9	6	1	5	4	5	5	7
1025:	7	7	3	2	2	7	6	3
1033:	4	7	7	3	4	5	5	8
1041:	4	10	3	4	8	6	3	6
1049:	8	5	5	7	8	6	3	3
1057:	4	6	5	4	4	3	4	8
1065:	4	8	5	6	5	5	4	6
1073:	6	5	6	5	7	12	2	5
1081:	2	3	5	10	5	4	9	5
1089:	6	6	6	5	1	6	6	6
1097:	5	4	6	4	4	2	6	2
1105:	4	5	5	4	7	6	5	6
1113:	4	3	3	5	2	3	9	40
1121:	26	5	11	6	7	2	5	3
1129:	3	5	3	4	5	8	4	1
1137:	7	5	5	4	8	5	5	8
1145:	6	2	7	7	7	11	6	2
1153:	3	12	13	9	13	3	3	6
1161:	10	7	11	7	7	3	2	5
1169:	6	7	1	5	6	5	4	5
1177:	4	6	5	4	8	10	6	4
1185:	4	7	7	3	6	5	5	7
1193:	3	2	6	5	10	6	6	4
1201:	3	4	6	4	4	2	9	4
1209:	7	5	4	7	3	11	4	2
1217:	6	5	8	5	8	2	5	5
1225:	2	5	5	3	6	3	3	9

1233:	4	4	3	7	6	17	9	5

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Channel								
1241:	3	6	7	5	4	5	9	6
1249:	5	2	6	5	3	4	3	7
1257:	5	2	1	6	5	4	5	5
1265:	3	2	5	2	6	2	5	5
1273:	4	7	7	4	5	4	7	2
1281:	7	2	9	3	2	0	1	4
1289:	5	2	4	3	4	3	2	3
1297:	4	3	4	2	2	2	3	2
1305:	4	1	6	8	2	6	1	2
1313:	5	3	5	2	6	3	2	2
1321:	4	3	3	5	2	3	4	3
1329:	3	4	5	8	1	1	5	3
1337:	2	3	2	3	3	3	1	2
1345:	2	2	3	4	2	3	1	6
1353:	4	2	3	2	3	4	0	2
1361:	1	6	6	1	1	4	3	2
1369:	3	1	2	4	3	0	0	4
1377:	8	6	8	3	4	4	1	2
1385:	2	2	3	1	1	1	4	0
1393:	1	2	4	2	2	2	1	4
1401:	2	1	3	4	1	1	2	5
1409:	3	1	0	5	1	4	2	3
1417:	2	1	2	6	5	3	4	0
1425:	2	7	1	2	2	5	3	1
1433:	3	3	2	1	2	5	1	2
1441:	2	2	2	1	0	0	2	2
1449:	1	1	2	1	7	2	3	6
1457:	1	11	43	148	215	78	15	4
1465:	6	2	1	3	2	1	2	2
1473:	2	1	1	2	2	2	0	0
1481:	2	0	1	0	0	1	1	1
1489:	0	0	2	1	1	4	4	0
1497:	2	2	4	2	2	2	1	1
1505:	0	1	3	2	2	4	3	2
1513:	2	2	0	2	1	1	1	2
1521:	0	1	0	2	1	1	2	2
1529:	1	1	2	2	2	0	2	1
1537:	1	1	2	2	0	3	3	0
1545:	1	1	0	2	2	1	1	0
1553:	1	2	2	1	3	1	0	3
1561:	1	1	2	1	0	2	2	3
1569:	1	1	0	3	1	1	0	0
1577:	1	3	1	1	2	2	1	1
1585:	3	2	6	7	2	4	4	5
1593:	1	1	1	2	2	1	3	1
1601:	1	0	1	1	0	1	5	2
1609:	0	1	0	0	0	1	0	2
1617:	0	2	4	5	4	2	0	2
1625:	2	2	0	0	0	2	1	3
1633:	0	1	2	3	0	1	1	4
1641:	0	0	0	2	2	1	1	0
1649:	3	1	1	0	2	0	1	2
1657:	1	0	1	0	4	1	1	4

1665:	2	1	0	0	0	2	1	0

Sample Title: FEEBRIS1D-10 046-049

Channel								
1673:	1	2	0	2	3	2	0	0
1681:	1	0	0	2	1	1	1	2
1689:	3	1	1	1	0	0	0	0
1697:	2	1	1	0	1	0	1	2
1705:	2	1	0	1	1	1	1	1
1713:	0	1	1	0	0	1	0	0
1721:	0	1	1	1	0	0	0	2
1729:	4	6	4	3	2	1	2	0
1737:	2	0	0	2	2	0	1	0
1745:	1	0	0	0	0	2	0	1
1753:	1	1	2	0	0	1	2	0
1761:	3	0	4	21	10	8	1	1
1769:	1	1	1	1	0	1	1	0
1777:	0	0	1	1	1	2	1	0
1785:	1	2	1	1	0	0	0	0
1793:	1	0	1	2	1	1	1	1
1801:	0	2	1	0	1	1	0	0
1809:	0	0	0	0	1	0	1	2
1817:	0	2	2	0	1	1	0	4
1825:	0	0	0	0	1	0	2	0
1833:	0	0	2	0	0	1	1	1
1841:	3	0	5	0	1	0	2	3
1849:	3	1	0	2	1	0	0	2
1857:	0	1	1	0	2	1	0	0
1865:	0	3	2	0	1	2	3	2
1873:	0	0	1	1	1	1	0	1
1881:	0	3	2	0	2	0	0	1
1889:	0	1	1	0	2	1	0	1
1897:	0	0	0	0	1	0	1	2
1905:	0	2	2	0	2	0	0	2
1913:	2	1	1	0	0	0	1	0
1921:	0	0	2	0	1	2	2	1
1929:	0	0	0	0	0	1	1	0
1937:	0	1	0	1	2	0	0	0
1945:	1	0	0	2	1	2	1	1
1953:	2	0	0	0	0	1	1	0
1961:	0	0	0	0	0	1	0	0
1969:	1	2	1	0	0	0	0	1
1977:	1	1	2	0	2	0	1	0
1985:	1	1	1	1	2	2	1	2
1993:	1	1	0	0	1	2	2	0
2001:	1	0	1	2	2	0	2	0
2009:	1	5	1	0	1	0	2	2
2017:	1	1	1	1	0	1	0	1
2025:	0	2	0	0	0	1	0	0
2033:	0	0	1	2	2	0	2	1
2041:	0	0	0	1	1	0	0	0
2049:	2	2	1	3	3	0	1	2
2057:	1	1	0	0	1	0	0	1
2065:	1	1	1	2	1	2	1	0
2073:	1	1	1	1	0	1	0	1
2081:	2	0	0	2	1	0	0	1
2089:	1	0	0	0	0	0	1	0

2097: 0 1 0 2 1 4 2 2

Sample Title: FEEBRIS1D-10 046-049

Channel								
2105:	1	1	1	0	0	1	1	0
2113:	0	1	1	1	0	0	3	0
2121:	1	2	0	0	2	0	0	0
2129:	1	0	0	0	0	1	0	2
2137:	0	0	1	0	0	1	0	0
2145:	0	0	0	1	1	2	1	0
2153:	2	0	3	1	2	1	0	1
2161:	1	0	0	1	0	1	1	0
2169:	1	0	1	0	2	0	0	1
2177:	1	0	1	0	1	1	0	1
2185:	0	0	0	1	1	0	0	0
2193:	1	2	4	1	1	2	2	1
2201:	0	0	4	5	2	1	0	0
2209:	1	0	0	0	2	1	1	0
2217:	0	2	1	0	0	0	0	2
2225:	0	1	2	2	2	4	1	1
2233:	1	0	1	1	1	0	0	1
2241:	1	1	0	1	0	1	0	0
2249:	0	1	0	0	0	2	0	0
2257:	0	1	1	1	1	0	2	2
2265:	0	0	3	1	1	0	0	0
2273:	1	1	0	1	3	2	0	3
2281:	0	1	0	2	3	0	0	1
2289:	1	0	0	0	2	1	0	3
2297:	0	1	1	0	1	0	1	0
2305:	2	1	0	0	1	0	0	1
2313:	1	1	3	1	0	1	0	0
2321:	1	3	0	0	0	0	0	1
2329:	0	1	2	2	2	0	0	3
2337:	0	1	0	1	0	1	1	0
2345:	0	2	0	1	2	2	2	0
2353:	1	2	1	2	1	2	1	0
2361:	3	1	1	1	1	2	0	0
2369:	0	1	2	2	1	1	0	1
2377:	3	0	1	0	0	1	0	1
2385:	0	0	2	1	0	1	3	1
2393:	2	0	0	1	0	1	0	1
2401:	0	0	3	0	0	4	0	0
2409:	1	0	1	1	0	0	1	0
2417:	3	0	0	0	0	0	1	0
2425:	1	2	1	0	2	1	0	3
2433:	1	0	0	0	1	0	0	2
2441:	0	0	1	2	1	1	1	3
2449:	1	2	0	0	1	0	0	0
2457:	0	0	0	1	0	0	0	0
2465:	0	0	1	0	0	1	0	0
2473:	0	0	0	0	0	1	0	1
2481:	1	1	1	0	0	0	1	0
2489:	0	0	0	0	1	1	1	0
2497:	0	0	0	1	1	0	2	1
2505:	0	0	0	1	1	0	1	1
2513:	0	0	1	1	0	0	0	0
2521:	0	0	0	0	0	0	0	1

2529:	1	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-10 046-049

Channel							
2537:	0	1	0	1	0	0	0	1
2545:	2	0	1	1	1	0	1	1
2553:	0	1	2	0	1	0	0	1
2561:	0	0	1	0	0	0	0	2
2569:	1	0	0	0	0	0	0	0
2577:	1	0	1	0	0	0	0	0
2585:	1	0	0	1	0	0	0	0
2593:	0	0	0	0	0	0	0	0
2601:	0	0	0	1	0	0	0	2
2609:	0	0	4	4	20	22	16	14
2617:	6	0	1	1	0	0	0	1
2625:	0	0	0	0	0	0	0	0
2633:	0	0	0	1	0	0	0	0
2641:	0	0	1	0	0	1	0	0
2649:	0	0	0	1	0	2	0	1
2657:	1	1	0	0	0	2	1	0
2665:	0	0	1	1	0	0	0	2
2673:	1	0	0	0	1	1	0	1
2681:	0	1	0	0	0	0	1	0
2689:	0	1	0	0	0	0	1	0
2697:	0	1	0	0	3	0	2	1
2705:	0	0	0	0	0	0	0	0
2713:	0	0	1	0	0	0	0	0
2721:	0	0	0	0	0	0	1	1
2729:	0	2	0	0	1	0	0	2
2737:	0	0	0	0	0	0	0	0
2745:	0	0	2	1	0	0	0	0
2753:	0	0	0	0	0	0	1	0
2761:	1	0	0	0	0	1	0	0
2769:	0	2	0	0	1	1	0	0
2777:	0	1	1	0	0	1	2	1
2785:	0	0	0	0	0	1	0	0
2793:	0	0	0	0	0	0	0	0
2801:	1	0	0	0	0	0	0	0
2809:	0	0	0	0	1	0	0	0
2817:	0	0	1	0	0	0	0	0
2825:	1	0	0	0	0	0	0	0
2833:	0	1	0	0	1	1	1	0
2841:	1	0	0	0	0	0	0	1
2849:	0	1	0	1	0	0	0	0
2857:	1	1	0	0	0	0	0	0
2865:	1	0	0	1	0	0	0	0
2873:	0	0	1	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	2	0	0	1	1	0	0	1
2897:	0	0	0	1	0	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	1	0
2921:	0	0	0	0	0	0	1	0
2929:	0	0	0	0	1	0	0	0
2937:	1	1	1	1	1	0	0	0
2945:	0	0	2	0	0	0	0	0
2953:	0	0	0	0	1	0	0	0

2961:	1	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-10 046-049

Channel								
2969:	0	0	0	0	0	0	0	1
2977:	0	1	0	0	0	0	0	0
2985:	0	0	0	2	0	0	1	0
2993:	0	1	0	0	0	0	0	0
3001:	0	0	0	0	1	0	0	1
3009:	0	0	0	1	0	0	0	0
3017:	0	0	0	0	0	1	0	0
3025:	1	0	0	0	0	0	1	0
3033:	1	0	0	0	0	0	0	0
3041:	0	0	0	0	0	1	0	0
3049:	0	1	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	1
3065:	0	0	0	0	0	0	0	0
3073:	0	0	1	0	1	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	1	1	0	0	0
3097:	0	0	0	0	0	0	0	2
3105:	0	0	0	1	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	1	2	0
3129:	0	0	0	0	0	1	0	0
3137:	0	0	0	1	0	0	0	0
3145:	0	0	0	1	1	0	0	0
3153:	1	0	0	0	0	0	0	0
3161:	0	0	0	1	0	0	0	0
3169:	1	0	0	0	0	0	1	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	1	1	0
3193:	0	1	1	0	0	1	1	0
3201:	1	0	0	0	0	0	0	0
3209:	0	0	1	0	0	0	0	0
3217:	0	0	0	0	0	0	2	0
3225:	0	0	0	0	0	0	0	0
3233:	1	0	0	0	0	0	0	1
3241:	0	0	0	0	0	0	0	2
3249:	0	0	0	1	0	0	0	0
3257:	1	0	0	0	0	0	1	0
3265:	0	0	0	0	0	0	0	0
3273:	1	0	0	1	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	2	0	0	0	0	0	0	0
3297:	0	0	0	0	1	1	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	1
3329:	0	1	0	1	0	0	0	0
3337:	0	0	0	0	1	0	0	0
3345:	0	0	0	0	0	1	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	1	0	0	0
3369:	1	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	1	0	0	0	0

3393:	0	0	1	0	1	0	0	0

Sample Title: FEEBRIS1D-10 046-049

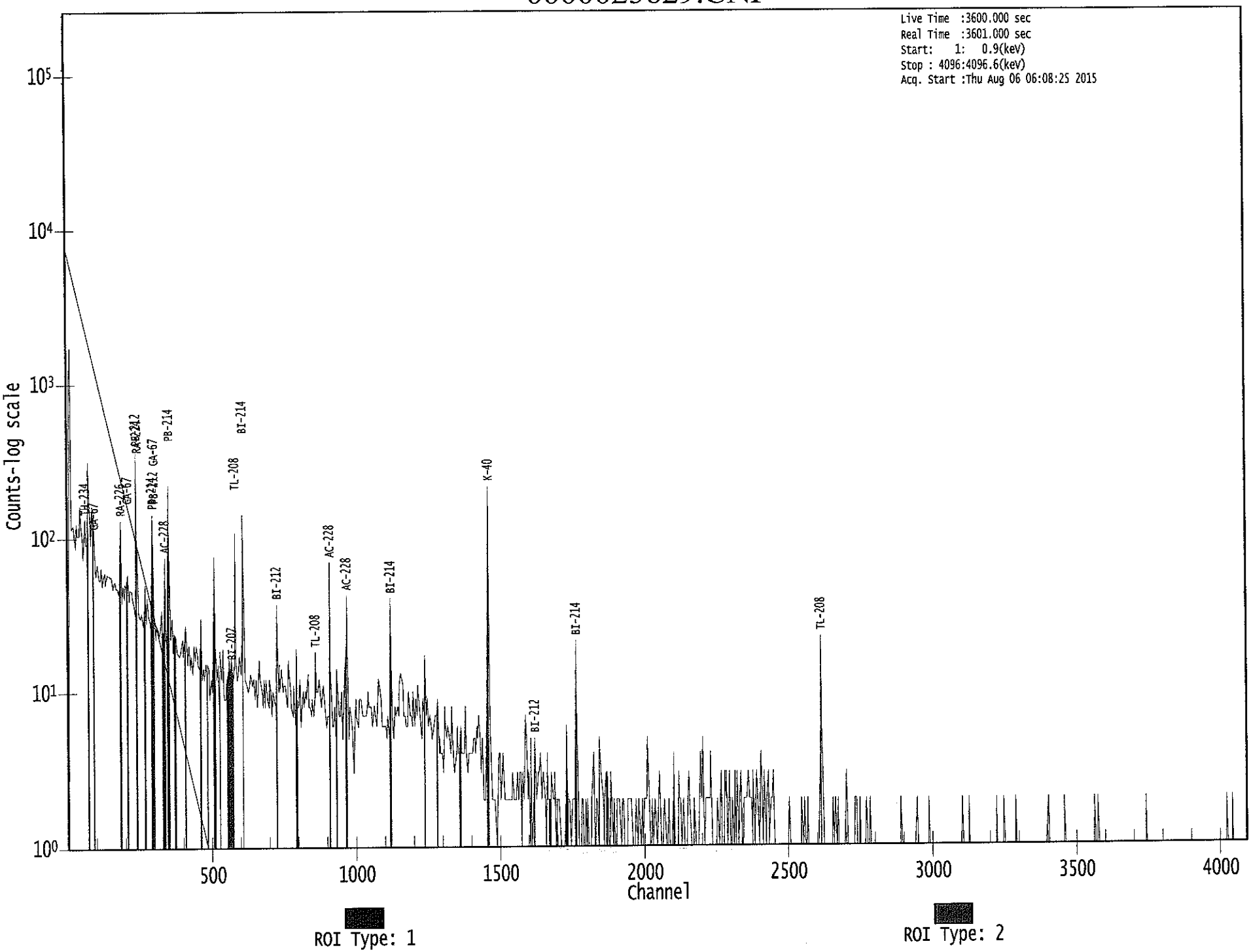
Channel								
3401:	1	2	0	0	0	0	0	0
3409:	0	0	0	0	0	0	1	0
3417:	0	0	0	1	0	1	0	1
3425:	0	0	1	0	0	0	0	0
3433:	0	0	0	0	0	0	1	0
3441:	0	1	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	2	0	0	0	0	1	0	0
3465:	0	1	0	0	1	0	0	0
3473:	0	1	0	0	0	0	0	0
3481:	1	1	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	1	0	0	0	0	1	0
3505:	0	0	0	0	1	0	0	0
3513:	0	0	0	1	0	1	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	1
3537:	0	1	0	0	0	0	0	1
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	2	0	0	0	0	0	1	0
3569:	0	0	0	0	2	0	0	0
3577:	1	0	1	0	0	0	0	0
3585:	0	0	1	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	1	0	0	0
3609:	0	0	0	0	0	0	1	1
3617:	1	0	0	0	1	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	1	1	0	0	0	0	0	0
3641:	0	0	0	0	1	0	1	0
3649:	0	1	0	0	0	0	1	0
3657:	0	0	0	0	0	0	0	0
3665:	1	0	0	0	0	1	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	1	0	0	0	0	1	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	1	1	0	1
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	1	2	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	1	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	1	0	0	0
3793:	0	0	0	1	0	0	0	0
3801:	0	0	0	0	0	0	1	0
3809:	0	1	0	0	1	1	0	0
3817:	0	0	0	0	0	0	1	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-10 046-049

Channel								
3833:	1	0	0	0	0	1	0	0
3841:	0	1	0	0	0	1	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	1	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	1	0	0	0	0
3905:	0	0	0	0	0	1	0	0
3913:	0	0	1	0	0	0	0	0
3921:	0	0	0	0	0	0	0	1
3929:	0	1	1	0	0	1	1	0
3937:	0	1	1	0	0	1	0	1
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	1	0	0
3961:	0	0	0	0	0	0	1	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	1	0	0
3993:	0	0	0	0	0	1	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	1	0	1	0	0	0
4017:	0	0	0	0	0	2	0	0
4025:	0	0	1	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	2	0	1	0	0	0	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	1	0	0	0	0

0000025629.CNF



Apex-Gamma

Analysis Report for 1507092-07
FEEBRIS1D-10 074-076

C 8/6

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507092-07
Sample Description	: FEEBRIS1D-10 074-076
Sample Type	: SOIL
Sample Size	: 3.583E+02 grams
Facility	: Countroom
Sample Taken On	: 7/12/2015 8:59:45AM
Acquisition Started	: 8/6/2015 6:08:34AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3613.7 seconds
Dead Time	: 0.38 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 25630

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

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Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

PEAK LOCATE REPORT

Peak Locate Performed on : 8/6/2015 7:08:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	76.04	76.26	0.0000	0.00
2	142.31	142.49	0.0000	0.00
3	153.60	153.78	0.0000	0.00
4	209.07	209.21	0.0000	0.00
5	216.75	216.89	0.0000	0.00
6	238.62	238.74	0.0000	0.00
7	241.89	242.01	0.0000	0.00
8	295.02	295.12	0.0000	0.00
9	322.91	323.00	0.0000	0.00
10	327.74	327.82	0.0000	0.00
11	339.14	339.22	0.0000	0.00
12	351.93	352.00	0.0000	0.00
13	543.40	543.38	0.0000	0.00
14	582.70	582.66	0.0000	0.00
15	609.09	609.03	0.0000	0.00
16	668.01	667.93	0.0000	0.00
17	724.37	724.26	0.0000	0.00
18	727.80	727.69	0.0000	0.00
19	911.10	910.90	0.0000	0.00
20	961.00	960.79	0.0000	0.00
21	964.91	964.69	0.0000	0.00
22	968.56	968.34	0.0000	0.00
23	1120.09	1119.80	0.0000	0.00
24	1170.83	1170.52	0.0000	0.00
25	1229.25	1228.92	0.0000	0.00
26	1265.62	1265.27	0.0000	0.00
27	1377.86	1377.47	0.0000	0.00
28	1430.01	1429.60	0.0000	0.00
29	1460.71	1460.29	0.0000	0.00
30	1643.09	1642.60	0.0000	0.00
31	1652.66	1652.16	0.0000	0.00
32	1765.14	1764.61	0.0000	0.00
33	1869.68	1869.12	0.0000	0.00
34	1885.74	1885.17	0.0000	0.00
35	2614.05	2613.27	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:08:58AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	76.04	71 -	79	76.26	4.18E+02	81.53	7.66E+02	3.50
	2	142.31	138 -	146	142.49	5.93E+01	51.66	3.75E+02	3.56
	3	153.60	148 -	159	153.78	5.80E+01	68.18	5.52E+02	2.33
	4	209.07	206 -	212	209.21	3.21E+01	37.26	2.26E+02	2.04
	5	216.75	213 -	220	216.89	3.31E+01	40.30	2.50E+02	1.40
M	6	238.62	233 -	246	238.74	2.88E+02	43.01	1.66E+02	1.77
m	7	241.89	233 -	246	242.01	6.93E+01	44.10	1.81E+02	2.08
	8	295.02	292 -	299	295.12	9.77E+01	39.50	2.01E+02	1.71
M	9	322.91	322 -	332	323.00	1.51E+01	5.43	1.53E+01	1.79
m	10	327.74	322 -	332	327.82	3.36E+01	27.09	1.18E+02	1.98
	11	339.14	335 -	344	339.22	9.32E+01	38.52	1.56E+02	2.22
	12	351.93	348 -	356	352.00	1.51E+02	44.81	2.17E+02	1.42
	13	543.40	541 -	546	543.38	1.44E+01	17.32	4.92E+01	3.35
	14	582.70	577 -	585	582.66	9.48E+01	28.13	6.44E+01	1.99
	15	609.09	603 -	612	609.03	1.42E+02	32.08	6.80E+01	1.91
	16	668.01	655 -	675	667.93	3.90E+01	46.06	1.56E+02	13.51
M	17	724.37	723 -	734	724.26	7.48E+00	6.93	1.03E+01	2.72
m	18	727.80	723 -	734	727.69	2.76E+01	20.30	4.81E+01	2.76
	19	911.10	908 -	913	910.90	3.40E+01	18.60	4.20E+01	2.35
M	20	961.00	957 -	973	960.79	1.73E+01	14.06	1.72E+01	2.92
m	21	964.91	957 -	973	964.69	1.64E+01	19.12	2.90E+01	2.92
m	22	968.56	957 -	973	968.34	2.31E+01	17.02	2.93E+01	2.23
	23	1120.09	1116 -	1123	1119.80	1.80E+01	21.35	6.40E+01	1.27
M	24	1170.83	1168 -	1183	1170.52	1.02E+01	9.87	1.50E+01	4.47
	25	1229.25	1227 -	1231	1228.92	7.00E+00	9.87	1.60E+01	1.37
	26	1265.62	1262 -	1269	1265.27	1.18E+01	10.95	1.23E+01	1.51
	27	1377.86	1373 -	1381	1377.47	2.10E+01	12.99	1.20E+01	4.70
	28	1430.01	1427 -	1432	1429.60	5.79E+00	6.08	2.43E+00	2.72
	29	1460.71	1457 -	1465	1460.29	1.81E+02	27.94	9.00E+00	2.00
	30	1643.09	1639 -	1644	1642.60	5.00E+00	4.47	0.00E+00	1.70
	31	1652.66	1648 -	1655	1652.16	8.05E+00	7.48	3.90E+00	2.64
	32	1765.14	1761 -	1768	1764.61	1.30E+01	10.00	8.00E+00	1.45
	33	1869.68	1865 -	1872	1869.12	7.11E+00	7.21	3.78E+00	2.80
	34	1885.74	1881 -	1887	1885.17	6.00E+00	4.90	0.00E+00	1.98
	35	2614.05	2609 -	2616	2613.27	2.60E+01	10.20	0.00E+00	3.48

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/6/2015 7:08:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	76.04	71 -	79	4.18E+02	81.53	7.66E+02	5.80E+01
	2	142.31	138 -	146	5.93E+01	51.66	3.75E+02	4.05E+01
	3	153.60	148 -	159	5.80E+01	68.18	5.52E+02	5.46E+01
	4	209.07	206 -	212	3.21E+01	37.26	2.26E+02	2.92E+01
	5	216.75	213 -	220	3.31E+01	40.30	2.50E+02	3.17E+01
M	6	238.62	233 -	246	2.88E+02	43.01	1.66E+02	2.12E+01
m	7	241.89	233 -	246	6.93E+01	44.10	1.81E+02	2.21E+01
	8	295.02	292 -	299	9.77E+01	39.50	2.01E+02	2.81E+01
M	9	322.91	322 -	332	1.51E+01	5.43	1.53E+01	6.42E+00
m	10	327.74	322 -	332	3.36E+01	27.09	1.18E+02	1.79E+01
	11	339.14	335 -	344	9.32E+01	38.52	1.56E+02	2.74E+01
	12	351.93	348 -	356	1.51E+02	44.81	2.17E+02	3.08E+01
	13	543.40	541 -	546	1.44E+01	17.32	4.92E+01	1.28E+01
	14	582.70	577 -	585	9.48E+01	28.13	6.44E+01	1.67E+01
	15	609.09	603 -	612	1.42E+02	32.08	6.80E+01	1.76E+01
	16	668.01	655 -	675	3.90E+01	46.06	1.56E+02	3.64E+01
M	17	724.37	723 -	734	7.48E+00	6.93	1.03E+01	5.27E+00
m	18	727.80	723 -	734	2.76E+01	20.30	4.81E+01	1.14E+01
	19	911.10	908 -	913	3.40E+01	18.60	4.20E+01	1.19E+01
M	20	961.00	957 -	973	1.73E+01	14.06	1.72E+01	6.82E+00
m	21	964.91	957 -	973	1.64E+01	19.12	2.90E+01	8.85E+00
m	22	968.56	957 -	973	2.31E+01	17.02	2.93E+01	8.90E+00
	23	1120.09	1116 -	1123	1.80E+01	21.35	6.40E+01	1.61E+01
M	24	1170.83	1168 -	1183	1.02E+01	9.87	1.50E+01	6.37E+00
	25	1229.25	1227 -	1231	7.00E+00	9.87	1.60E+01	6.85E+00
	26	1265.62	1262 -	1269	1.18E+01	10.95	1.23E+01	7.01E+00
	27	1377.86	1373 -	1381	2.10E+01	12.99	1.20E+01	7.57E+00
	28	1430.01	1427 -	1432	5.79E+00	6.08	2.43E+00	3.06E+00
	29	1460.71	1457 -	1465	1.81E+02	27.94	9.00E+00	6.29E+00
	30	1643.09	1639 -	1644	5.00E+00	4.47	0.00E+00	0.00E+00
	31	1652.66	1648 -	1655	8.05E+00	7.48	3.90E+00	4.01E+00

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1765.14	1761 -	1768	1.30E+01	10.00	8.00E+00	5.70E+00
33	1869.68	1865 -	1872	7.11E+00	7.21	3.78E+00	3.99E+00
34	1885.74	1881 -	1887	6.00E+00	4.90	0.00E+00	0.00E+00
35	2614.05	2609 -	2616	2.60E+01	10.20	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/6/2015 7:08:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	76.04	71 -	79	76.26	4.18E+02	81.53	7.66E+02	.....
	2	142.31	138 -	146	142.49	5.93E+01	51.66	3.75E+02	.....
	3	153.60	148 -	159	153.78	5.80E+01	68.18	5.52E+02	CS-136
	4	209.07	206 -	212	209.21	3.21E+01	37.26	2.26E+02	GA-67 CM-243
	5	216.75	213 -	220	216.89	3.31E+01	40.30	2.50E+02	.....
M	6	238.62	233 -	246	238.74	2.88E+02	43.01	1.66E+02	PB-212
m	7	241.89	233 -	246	242.01	6.93E+01	44.10	1.81E+02	RA-224
	8	295.02	292 -	299	295.12	9.77E+01	39.50	2.01E+02	PB-214
M	9	322.91	322 -	332	323.00	1.51E+01	5.43	1.53E+01	RA-223
m	10	327.74	322 -	332	327.82	3.36E+01	27.09	1.18E+02	.....
	11	339.14	335 -	344	339.22	9.32E+01	38.52	1.56E+02	AC-228
	12	351.93	348 -	356	352.00	1.51E+02	44.81	2.17E+02	PB-214
	13	543.40	541 -	546	543.38	1.44E+01	17.32	4.92E+01	.....
	14	582.70	577 -	585	582.66	9.48E+01	28.13	6.44E+01	TL-208
	15	609.09	603 -	612	609.03	1.42E+02	32.08	6.80E+01	BI-214
	16	668.01	655 -	675	667.93	3.90E+01	46.06	1.56E+02	.....
M	17	724.37	723 -	734	724.26	7.48E+00	6.93	1.03E+01	ZR-95
m	18	727.80	723 -	734	727.69	2.76E+01	20.30	4.81E+01	BI-212
	19	911.10	908 -	913	910.90	3.40E+01	18.60	4.20E+01	AC-228
M	20	961.00	957 -	973	960.79	1.73E+01	14.06	1.72E+01	.....
m	21	964.91	957 -	973	964.69	1.64E+01	19.12	2.90E+01	EU-152

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
m	22	968.56	957 -	973	968.34	2.31E+01	17.02	2.93E+01	AC-228
	23	1120.09	1116 -	1123	1119.80	1.80E+01	21.35	6.40E+01	BI-214 SC-46
M	24	1170.83	1168 -	1183	1170.52	1.02E+01	9.87	1.50E+01	.....
	25	1229.25	1227 -	1231	1228.92	7.00E+00	9.87	1.60E+01	.....
	26	1265.62	1262 -	1269	1265.27	1.18E+01	10.95	1.23E+01	.....
	27	1377.86	1373 -	1381	1377.47	2.10E+01	12.99	1.20E+01	.....
	28	1430.01	1427 -	1432	1429.60	5.79E+00	6.08	2.43E+00	.....
	29	1460.71	1457 -	1465	1460.29	1.81E+02	27.94	9.00E+00	K-40
	30	1643.09	1639 -	1644	1642.60	5.00E+00	4.47	0.00E+00	.....
	31	1652.66	1648 -	1655	1652.16	8.05E+00	7.48	3.90E+00	.....
	32	1765.14	1761 -	1768	1764.61	1.30E+01	10.00	8.00E+00	BI-214
	33	1869.68	1865 -	1872	1869.12	7.11E+00	7.21	3.78E+00	.....
	34	1885.74	1881 -	1887	1885.17	6.00E+00	4.90	0.00E+00	.....
	35	2614.05	2609 -	2616	2613.27	2.60E+01	10.20	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/6/2015 7:08:58AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	76.04	4.18E+02	81.53	2.38E-02	2.13E-03
	2	142.31	5.93E+01	51.66	2.15E-02	1.63E-03
	3	153.60	5.80E+01	68.18	2.06E-02	1.57E-03
	4	209.07	3.21E+01	37.26	1.68E-02	1.32E-03
	5	216.75	3.31E+01	40.30	1.64E-02	1.28E-03
M	6	238.62	2.88E+02	43.01	1.52E-02	1.18E-03
m	7	241.89	6.93E+01	44.10	1.51E-02	1.17E-03
	8	295.02	9.77E+01	39.50	1.28E-02	9.74E-04
M	9	322.91	1.51E+01	5.43	1.19E-02	9.35E-04
m	10	327.74	3.36E+01	27.09	1.17E-02	9.28E-04
	11	339.14	9.32E+01	38.52	1.14E-02	9.12E-04
	12	351.93	1.51E+02	44.81	1.11E-02	8.94E-04
	13	543.40	1.44E+01	17.32	7.59E-03	6.86E-04
	14	582.70	9.48E+01	28.13	7.14E-03	6.47E-04
	15	609.09	1.42E+02	32.08	6.87E-03	6.20E-04

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	16	668.01	3.90E+01	46.06	6.34E-03	5.63E-04
M	17	724.37	7.48E+00	6.93	5.91E-03	5.17E-04
m	18	727.80	2.76E+01	20.30	5.89E-03	5.14E-04
	19	911.10	3.40E+01	18.60	4.85E-03	3.72E-04
M	20	961.00	1.73E+01	14.06	4.64E-03	3.63E-04
m	21	964.91	1.64E+01	19.12	4.62E-03	3.62E-04
m	22	968.56	2.31E+01	17.02	4.61E-03	3.62E-04
	23	1120.09	1.80E+01	21.35	4.08E-03	3.33E-04
M	24	1170.83	1.02E+01	9.87	3.93E-03	3.24E-04
	25	1229.25	7.00E+00	9.87	3.78E-03	3.11E-04
	26	1265.62	1.18E+01	10.95	3.69E-03	3.03E-04
	27	1377.86	2.10E+01	12.99	3.45E-03	2.82E-04
	28	1430.01	5.79E+00	6.08	3.35E-03	2.74E-04
	29	1460.71	1.81E+02	27.94	3.29E-03	2.69E-04
	30	1643.09	5.00E+00	4.47	3.01E-03	2.42E-04
	31	1652.66	8.05E+00	7.48	3.00E-03	2.41E-04
	32	1765.14	1.30E+01	10.00	2.86E-03	2.24E-04
	33	1869.68	7.11E+00	7.21	2.74E-03	2.13E-04
	34	1885.74	6.00E+00	4.90	2.73E-03	2.13E-04
	35	2614.05	2.60E+01	10.20	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/6/2015 7:08:58AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	76.04	4.18E+02	81.53			4.18E+02	8.15E+01
	2	142.31	5.93E+01	51.66			5.93E+01	5.17E+01
	3	153.60	5.80E+01	68.18			5.80E+01	6.82E+01
	4	209.07	3.21E+01	37.26			3.21E+01	3.73E+01
	5	216.75	3.31E+01	40.30			3.31E+01	4.03E+01
M	6	238.62	2.88E+02	43.01	1.57E+01	4.91E+00	2.72E+02	4.33E+01
m	7	241.89	6.93E+01	44.10			6.93E+01	4.41E+01
	8	295.02	9.77E+01	39.50	2.05E+00	6.38E+00	9.57E+01	4.00E+01
M	9	322.91	1.51E+01	5.43			1.51E+01	5.43E+00
m	10	327.74	3.36E+01	27.09			3.36E+01	2.71E+01

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	11	339.14	9.32E+01	38.52			9.32E+01	3.85E+01
	12	351.93	1.51E+02	44.81	8.85E+00	4.53E+00	1.42E+02	4.50E+01
	13	543.40	1.44E+01	17.32			1.44E+01	1.73E+01
	14	582.70	9.48E+01	28.13	5.04E+00	3.45E+00	8.97E+01	2.83E+01
	15	609.09	1.42E+02	32.08	8.51E+00	1.93E+00	1.33E+02	3.21E+01
	16	668.01	3.90E+01	46.06			3.90E+01	4.61E+01
M	17	724.37	7.48E+00	6.93			7.48E+00	6.93E+00
m	18	727.80	2.76E+01	20.30			2.76E+01	2.03E+01
	19	911.10	3.40E+01	18.60	2.74E+00	2.96E+00	3.13E+01	1.88E+01
M	20	961.00	1.73E+01	14.06			1.73E+01	1.41E+01
m	21	964.91	1.64E+01	19.12			1.64E+01	1.91E+01
m	22	968.56	2.31E+01	17.02			2.31E+01	1.70E+01
	23	1120.09	1.80E+01	21.35			1.80E+01	2.14E+01
M	24	1170.83	1.02E+01	9.87			1.02E+01	9.87E+00
	25	1229.25	7.00E+00	9.87			7.00E+00	9.87E+00
	26	1265.62	1.18E+01	10.95			1.18E+01	1.10E+01
	27	1377.86	2.10E+01	12.99			2.10E+01	1.30E+01
	28	1430.01	5.79E+00	6.08			5.79E+00	6.08E+00
	29	1460.71	1.81E+02	27.94	2.41E+00	1.70E+00	1.78E+02	2.80E+01
	30	1643.09	5.00E+00	4.47			5.00E+00	4.47E+00
	31	1652.66	8.05E+00	7.48			8.05E+00	7.48E+00
	32	1765.14	1.30E+01	10.00			1.30E+01	1.00E+01
	33	1869.68	7.11E+00	7.21			7.11E+00	7.21E+00
	34	1885.74	6.00E+00	4.90			6.00E+00	4.90E+00
	35	2614.05	2.60E+01	10.20			2.60E+01	1.02E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/6/2015 7:08:58AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000024757.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	76.04	4.18E+02	81.53			4.18E+02	8.15E+01
2	142.31	5.93E+01	51.66			5.93E+01	5.17E+01
3	153.60	5.80E+01	68.18			5.80E+01	6.82E+01

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	4	209.07	3.21E+01	37.26			3.21E+01	3.73E+01
	5	216.75	3.31E+01	40.30			3.31E+01	4.03E+01
M	6	238.62	2.88E+02	43.01	1.57E+01	4.91E+00	2.72E+02	4.33E+01
m	7	241.89	6.93E+01	44.10			6.93E+01	4.41E+01
	8	295.02	9.77E+01	39.50	2.05E+00	6.38E+00	9.57E+01	4.00E+01
M	9	322.91	1.51E+01	5.43			1.51E+01	5.43E+00
m	10	327.74	3.36E+01	27.09			3.36E+01	2.71E+01
	11	339.14	9.32E+01	38.52			9.32E+01	3.85E+01
	12	351.93	1.51E+02	44.81	8.85E+00	4.53E+00	1.42E+02	4.50E+01
	13	543.40	1.44E+01	17.32			1.44E+01	1.73E+01
	14	582.70	9.48E+01	28.13	5.04E+00	3.45E+00	8.97E+01	2.83E+01
	15	609.09	1.42E+02	32.08	8.51E+00	1.93E+00	1.33E+02	3.21E+01
	16	668.01	3.90E+01	46.06			3.90E+01	4.61E+01
M	17	724.37	7.48E+00	6.93			7.48E+00	6.93E+00
m	18	727.80	2.76E+01	20.30			2.76E+01	2.03E+01
	19	911.10	3.40E+01	18.60	2.74E+00	2.96E+00	3.13E+01	1.88E+01
M	20	961.00	1.73E+01	14.06			1.73E+01	1.41E+01
m	21	964.91	1.64E+01	19.12			1.64E+01	1.91E+01
m	22	968.56	2.31E+01	17.02			2.31E+01	1.70E+01
	23	1120.09	1.80E+01	21.35			1.80E+01	2.14E+01
M	24	1170.83	1.02E+01	9.87			1.02E+01	9.87E+00
	25	1229.25	7.00E+00	9.87			7.00E+00	9.87E+00
	26	1265.62	1.18E+01	10.95			1.18E+01	1.10E+01
	27	1377.86	2.10E+01	12.99			2.10E+01	1.30E+01
	28	1430.01	5.79E+00	6.08			5.79E+00	6.08E+00
	29	1460.71	1.81E+02	27.94	2.41E+00	1.70E+00	1.78E+02	2.80E+01
	30	1643.09	5.00E+00	4.47			5.00E+00	4.47E+00
	31	1652.66	8.05E+00	7.48			8.05E+00	7.48E+00
	32	1765.14	1.30E+01	10.00			1.30E+01	1.00E+01
	33	1869.68	7.11E+00	7.21			7.11E+00	7.21E+00
	34	1885.74	6.00E+00	4.90			6.00E+00	4.90E+00
	35	2614.05	2.60E+01	10.20			2.60E+01	1.02E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.998	1460.81	*	10.67	1.06E+01	1.90E+00
TL-208	0.846	583.14	*	30.22	8.71E-01	2.86E-01
		860.37		4.48		
		2614.66	*	35.85	6.79E-01	2.74E-01
BI-212	0.721	727.17	*	11.80	8.34E-01	6.17E-01
		1620.62		2.75		
PB-212	0.896	238.63	*	44.60	8.39E-01	1.49E-01
		300.09		3.41		
BI-214	0.915	609.31	*	46.30	8.79E-01	2.26E-01
		1120.29	*	15.10	6.13E-01	7.28E-01
		1764.49	*	15.80	6.03E-01	4.67E-01
		2204.22		4.98		
PB-214	0.998	295.21	*	19.19	8.14E-01	3.46E-01
		351.92	*	37.19	7.22E-01	2.37E-01
RA-223	0.864	323.87	*	3.88	6.85E-01	2.52E-01
RA-224	0.877	240.98	*	3.95	2.44E+00	1.56E+00
AC-228	0.964	338.32	*	11.40	1.50E+00	6.32E-01
		911.07	*	27.70	4.87E-01	2.96E-01
		969.11	*	16.60	6.33E-01	4.69E-01

* = Energy line found in the spectrum.
~ = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:08:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.04	1.16057E-01	9.76		
	2	142.31	1.64704E-02	43.56		
	3	153.60	1.61111E-02	58.77	Tol.	CS-136
	4	209.07	8.92625E-03	57.98	Tol.	CM-243
	5	216.75	9.19128E-03	60.90		
m	10	327.74	9.33308E-03	40.32		
	13	543.40	4.00285E-03	60.10		
	16	668.01	1.08203E-02	59.13		
M	17	724.37	2.07649E-03	46.34		

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	20	961.00	4.79427E-03	40.74	Sum	
m	21	964.91	4.56815E-03	58.15	Tol.	EU-152
M	24	1170.83	2.82927E-03	48.47		
	25	1229.25	1.94444E-03	70.53		
	26	1265.62	3.28704E-03	46.29		
	27	1377.86	5.83333E-03	30.93		
	28	1430.01	1.60714E-03	52.57		
	30	1643.09	1.38889E-03	44.72		
	31	1652.66	2.23611E-03	46.48		
	33	1869.68	1.97531E-03	50.70		
	34	1885.74	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.06E+01	1.90E+00
TL-208	0.84	583.14	*	30.22	8.71E-01	2.86E-01
		860.37		4.48		
		2614.66	*	35.85	6.79E-01	2.74E-01
BI-212	0.72	727.17	*	11.80	8.34E-01	6.17E-01
		1620.62		2.75		
PB-212	0.89	238.63	*	44.60	8.39E-01	1.49E-01
		300.09		3.41		
BI-214	0.91	609.31	*	46.30	8.79E-01	2.26E-01
		1120.29	*	15.10	6.13E-01	7.28E-01
		1764.49	*	15.80	6.03E-01	4.67E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	8.14E-01	3.46E-01
		351.92	*	37.19	7.22E-01	2.37E-01
RA-223	0.86	323.87	*	3.88	6.85E-01	2.52E-01
RA-224	0.87	240.98	*	3.95	2.44E+00	1.56E+00
AC-228	0.96	338.32	*	11.40	1.50E+00	6.32E-01

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AC-228	0.96	911.07	*	27.70	4.87E-01	2.96E-01
		969.11	*	16.60	6.33E-01	4.69E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.998	1.06E+01	1.90E+00	
TL-208	0.846	7.71E-01	1.98E-01	
BI-212	0.721	8.34E-01	6.17E-01	
PB-212	0.896	8.39E-01	1.49E-01	
BI-214	0.915	8.11E-01	1.96E-01	
PB-214	0.998	7.51E-01	1.95E-01	
RA-223	0.864	6.85E-01	2.52E-01	
RA-224	0.877	2.44E+00	1.56E+00	
AC-228	0.964	6.61E-01	2.33E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/6/2015 7:08:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.04	1.16057E-01	9.76		
	2	142.31	1.64704E-02	43.56		
	3	153.60	1.61111E-02	58.77	Tol.	CS-136
	4	209.07	8.92625E-03	57.98	Tol.	CM-243
	5	216.75	9.19128E-03	60.90		
m	10	327.74	9.33308E-03	40.32		
	13	543.40	4.00285E-03	60.10		
	16	668.01	1.08203E-02	59.13		
M	17	724.37	2.07649E-03	46.34		
M	20	961.00	4.79427E-03	40.74	Sum	
m	21	964.91	4.56815E-03	58.15	Tol.	EU-152
M	24	1170.83	2.82927E-03	48.47		
	25	1229.25	1.94444E-03	70.53		
	26	1265.62	3.28704E-03	46.29		
	27	1377.86	5.83333E-03	30.93		
	28	1430.01	1.60714E-03	52.57		
	30	1643.09	1.38889E-03	44.72		
	31	1652.66	2.23611E-03	46.48		
	33	1869.68	1.97531E-03	50.70		
	34	1885.74	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-3.40E-01	1.19E+00	1.19E+00
+	NA-22	1274.54		99.94	3.78E-02	1.24E-01	1.24E-01
+	NA-24	1368.53		99.99	1.28E+09	1.02E+11	1.20E+11
		2754.09		99.86	2.84E+10		1.02E+11
+	AL-26	1808.65		99.76	-2.91E-02	8.05E-02	8.05E-02
+	K-40	1460.81	*	10.67	1.06E+01	9.89E-01	9.89E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.99E-02	7.25E-02	7.25E-02
		78.34		96.00	-2.12E-02		9.01E-02
+	SC-46	889.25		99.98	-8.32E-02	1.14E-01	1.14E-01
		1120.51		99.99	1.14E-01		2.16E-01
+	V-48	983.52		99.98	1.92E-01	3.59E-01	3.59E-01
		1312.10		97.50	7.17E-02		3.97E-01
+	CR-51	320.08		9.83	-2.01E-02	1.36E+00	1.36E+00
+	MN-54	834.83		99.97	1.53E-02	1.19E-01	1.19E-01
+	CO-56	846.75		99.96	-5.84E-02	1.19E-01	1.19E-01
		1037.75		14.03	2.51E-01		9.84E-01
		1238.25		67.00	1.19E-01		2.88E-01
		1771.40		15.51	-1.46E-01		8.86E-01
		2598.48		16.90	0.00E+00		1.86E-01
+	CO-57	122.06		85.51	-7.67E-03	6.57E-02	6.57E-02
		136.48		10.60	-9.32E-02		5.13E-01
+	CO-58	810.76		99.40	1.18E-02	1.30E-01	1.30E-01
+	FE-59	1099.22		56.50	4.01E-02	3.23E-01	3.23E-01
		1291.56		43.20	-3.94E-02		4.19E-01
+	CO-60	1173.22		100.00	1.19E-01	1.20E-01	1.63E-01
		1332.49		100.00	1.88E-02		1.20E-01
+	ZN-65	1115.52		50.75	8.57E-03	2.55E-01	2.55E-01
+	GA-67	93.31		35.70	4.15E+01	3.87E+01	3.87E+01
		208.95		2.24	3.43E+02		6.49E+02
		300.22		16.00	3.14E+01		1.00E+02
+	SE-75	121.11		16.70	-1.16E-01	1.01E-01	3.50E-01
		136.00		59.20	-1.41E-02		1.01E-01
		264.65		59.80	-9.20E-02		1.46E-01
		279.53		25.20	1.17E-01		3.53E-01
		400.65		11.40	-1.83E-01		8.87E-01
+	RB-82	776.52		13.00	5.69E-02	1.45E+00	1.45E+00
+	RB-83	520.41		46.00	-7.68E-02	2.27E-01	2.27E-01
		529.64		30.30	-2.14E-01		3.16E-01
		552.65		16.40	-1.04E-02		6.55E-01
+	KR-85	513.99		0.43	2.82E+01	2.88E+01	2.88E+01
+	SR-85	513.99		99.27	1.60E-01	1.64E-01	1.64E-01
+	Y-88	898.02		93.40	-5.37E-02	1.34E-01	1.39E-01
		1836.01		99.38	3.31E-02		1.34E-01
+	NB-93M	16.57		9.43	2.77E+01	1.06E+02	1.06E+02
+	NB-94	702.63		100.00	1.77E-02	9.77E-02	1.10E-01
		871.10		100.00	-1.75E-02		9.77E-02

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	9.06E-02	1.82E-01	1.82E-01
+	NB-95M	235.69	25.00	1.40E+02	6.01E+01	6.01E+01
+	ZR-95	724.18	43.70	1.59E-02	2.42E-01	3.53E-01
		756.72	55.30	9.35E-02		2.42E-01
+	MO-99	181.06	6.20	-1.55E+02	4.47E+02	5.13E+02
		739.58	12.80	2.23E+02		4.47E+02
		778.00	4.50	1.56E+02		1.13E+03
+	RU-103	497.08	89.00	2.83E-02	1.58E-01	1.58E-01
+	RU-106	621.84	9.80	-4.34E-02	8.77E-01	8.77E-01
+	AG-108M	433.93	89.90	1.22E-02	9.39E-02	9.39E-02
		614.37	90.40	-9.89E-03		1.00E-01
		722.95	90.50	-2.24E-03		1.12E-01
+	CD-109	88.03	3.72	1.33E+00	2.05E+00	2.05E+00
+	AG-110M	657.75	93.14	8.32E-03	1.19E-01	1.19E-01
		677.61	10.53	1.02E-01		9.15E-01
		706.67	16.46	-1.31E-01		7.00E-01
		763.93	21.98	-4.46E-02		5.02E-01
		884.67	71.63	6.61E-02		1.72E-01
		1384.27	23.94	-3.58E-02		5.14E-01
+	CD-113M	263.70	0.02	-1.07E+02	3.35E+02	3.35E+02
+	SN-113	255.12	1.93	-1.18E+00	1.52E-01	4.22E+00
		391.69	64.90	2.77E-05		1.52E-01
+	TE123M	159.00	84.10	3.63E-04	7.79E-02	7.79E-02
+	SB-124	602.71	97.87	5.14E-03	1.39E-01	1.39E-01
		645.85	7.26	7.15E-01		1.87E+00
		722.78	11.10	-2.43E-02		1.21E+00
		1691.02	49.00	7.73E-02		2.32E-01
+	I-125	35.49	6.49	-1.74E+00	3.63E+00	3.63E+00
+	SB-125	176.33	6.89	1.70E-01	2.89E-01	8.76E-01
		427.89	29.33	-3.35E-02		2.89E-01
		463.38	10.35	3.68E-01		9.56E-01
		600.56	17.80	7.24E-02		5.78E-01
		635.90	11.32	-3.94E-01		8.49E-01
+	SB-126	414.70	83.30	1.80E-02	4.13E-01	4.39E-01
		666.33	99.60	-2.72E-01		4.13E-01
		695.00	99.60	2.66E-02		4.18E-01
		720.50	53.80	7.91E-02		7.44E-01
+	SN-126	87.57	37.00	1.29E-01	1.98E-01	1.98E-01
+	SB-127	473.00	25.00	-2.81E+00	2.33E+01	3.22E+01
		685.20	35.70	-5.34E+00		2.33E+01
		783.80	14.70	2.74E+01		6.73E+01
+	I-129	29.78	57.00	-1.63E-01	6.02E-01	6.02E-01
		33.60	13.20	5.05E-01		1.68E+00
		39.58	7.52	6.63E-01		1.82E+00
+	I-131	284.30	6.05	-1.57E+00	8.51E-01	1.03E+01
		364.48	81.20	-3.39E-01		8.51E-01
		636.97	7.26	-3.25E+00		1.13E+01
		722.89	1.80	-9.61E-01		4.81E+01

Analysis Report for 1507092-07

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TE-132	49.72	13.10	-2.40E+02	1.60E+01	1.25E+02
		228.16	88.00	-1.23E+00		1.60E+01
+	BA-133	81.00	33.00	-2.30E-01	1.62E-01	1.88E-01
		302.84	17.80	1.38E-01		4.64E-01
		356.01	60.00	-2.32E-02		1.62E-01
+	I-133	529.87	86.30	-2.74E+07	4.05E+07	4.05E+07
+	XE-133	81.00	38.00	-5.35E+00	4.38E+00	4.38E+00
+	CS-134	563.23	8.38	-5.55E-01	1.16E-01	1.08E+00
		569.32	15.43	1.19E-01		6.05E-01
		604.70	97.60	-5.42E-01		1.16E-01
		795.84	85.40	1.53E-02		1.39E-01
		801.93	8.73	4.02E-01		1.22E+00
+	CS-135	268.24	16.00	1.94E-01	5.17E-01	5.17E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	1.32E+00	3.94E-01	3.11E+00
		163.89	4.61	-7.19E-01		4.40E+00
		176.55	13.56	-5.07E-01		1.57E+00
		273.65	12.66	-5.72E-01		2.30E+00
		340.57	48.50	1.15E+00		8.03E-01
		818.50	99.70	1.16E-01		3.94E-01
		1048.07	79.60	-2.44E-01		4.56E-01
		1235.34	19.70	6.65E-01		2.82E+00
+	CS-137	661.65	85.12	-5.16E-03	1.20E-01	1.20E-01
+	LA-138	788.74	34.00	-2.19E-01	1.79E-01	2.86E-01
		1435.80	66.00	1.38E-02		1.79E-01
+	CE-139	165.85	80.35	-2.02E-02	7.69E-02	7.69E-02
+	BA-140	162.64	6.70	-6.05E-02	1.43E+00	3.17E+00
		304.84	4.50	2.53E+00		6.81E+00
		423.70	3.20	2.54E+00		1.08E+01
		437.55	2.00	9.55E-01		1.63E+01
		537.32	25.00	2.74E-01		1.43E+00
+	LA-140	328.77	20.50	4.85E-01	4.36E-01	1.69E+00
		487.03	45.50	-8.58E-02		6.98E-01
		815.85	23.50	-2.74E-01		1.64E+00
		1596.49	95.49	4.81E-02		4.36E-01
+	CE-141	145.44	48.40	-1.80E-02	1.96E-01	1.96E-01
+	CE-143	57.36	11.80	-1.94E+04	7.19E+04	1.81E+05
		293.26	42.00	-7.78E+03		7.19E+04
		664.55	5.20	1.64E+05		6.07E+05
+	CE-144	133.54	10.80	2.76E-01	5.49E-01	5.49E-01
+	PM-144	476.78	42.00	-1.01E-01	9.26E-02	2.17E-01
		618.01	98.60	2.96E-02		9.26E-02
		696.49	99.49	-3.39E-03		1.06E-01
+	PM-145	36.85	21.70	-2.49E-01	3.88E-01	7.26E-01
		37.36	39.70	1.82E-02		3.88E-01
		42.30	15.10	-1.03E+00		7.51E-01
		72.40	2.31	-2.68E+00		3.61E+00

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90	39.94	-7.96E-02	2.10E-01	2.10E-01
		735.90	14.01	-2.32E-01		6.84E-01
		747.13	13.10	7.06E-02		7.28E-01
+	ND-147	91.11	28.90	-2.56E-01	1.20E+00	1.20E+00
		531.02	13.10	-5.40E-01		3.01E+00
+	PM-149	285.90	3.10	1.54E+03	5.83E+03	5.83E+03
+	EU-152	121.78	20.50	-3.01E-02	2.58E-01	2.58E-01
		244.69	5.40	3.33E-02		1.55E+00
		344.27	19.13	-2.44E-02		4.22E-01
		778.89	9.20	-1.05E-01		1.09E+00
		964.01	10.40	-9.90E-01		1.40E+00
		1085.78	7.22	-1.82E-01		1.52E+00
		1112.02	9.60	1.50E-01		1.23E+00
		1407.95	14.94	3.58E-01		8.85E-01
+	GD-153	97.43	31.30	-8.02E-02	1.82E-01	1.82E-01
		103.18	22.20	-1.88E-02		2.52E-01
+	EU-154	123.07	40.50	3.16E-02	1.38E-01	1.38E-01
		723.30	19.70	-1.03E-02		5.17E-01
		873.19	11.50	1.27E-01		8.75E-01
		996.32	10.30	-2.01E-01		9.95E-01
		1004.76	17.90	5.80E-02		6.84E-01
		1274.45	35.50	1.05E-01		3.45E-01
+	EU-155	86.50	30.90	9.71E-02	2.37E-01	2.37E-01
		105.30	20.70	-6.19E-02		2.57E-01
+	EU-156	811.77	10.40	9.61E-01	3.04E+00	3.04E+00
		1153.47	7.20	1.97E+00		5.47E+00
		1230.71	8.90	-1.17E-01		4.57E+00
+	HO-166M	184.41	72.60	1.09E-01	1.07E-01	1.07E-01
		280.45	29.60	-7.54E-02		2.48E-01
		410.94	11.10	1.05E-02		8.49E-01
		711.69	54.10	-4.43E-02		1.85E-01
+	TM-171	66.72	0.14	-1.16E+02	4.93E+01	4.93E+01
+	HF-172	81.75	4.52	-9.14E-01	5.23E-01	1.50E+00
		125.81	11.30	-9.79E-02		5.23E-01
+	LU-172	181.53	20.60	-5.66E+00	2.49E+00	3.98E+00
		810.06	16.63	2.20E+00		8.02E+00
		912.12	15.25	3.39E-02		1.49E+01
		1093.66	62.50	8.29E-01		2.49E+00
+	LU-173	100.72	5.24	-2.47E-01	3.99E-01	1.02E+00
		272.11	21.20	1.18E-01		3.99E-01
+	HF-175	343.40	84.00	-3.28E-02	1.22E-01	1.22E-01
+	LU-176	88.34	13.30	-7.01E-02	7.67E-02	5.55E-01
		201.83	86.00	2.35E-02		8.64E-02
		306.78	94.00	-1.39E-02		7.67E-02
+	TA-182	67.75	41.20	5.31E-02	1.93E-01	1.93E-01
		1121.30	34.90	5.57E-01		6.05E-01
		1189.05	16.23	1.74E-01		9.49E-01
		1221.41	26.98	3.42E-01		5.95E-01
		1231.02	11.44	-1.13E-01		1.38E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-1.31E-01	2.43E-01	2.96E-01
		468.07		48.10	-1.27E-01		2.43E-01
+	HG-203	279.19		77.30	3.93E-02	1.43E-01	1.43E-01
+	BI-207	569.67		97.72	3.92E-02	9.68E-02	9.68E-02
		1063.62		74.90	-6.64E-02		1.40E-01
+	TL-208	583.14	*	30.22	8.71E-01	7.06E-02	3.63E-01
		860.37		4.48	1.42E+00		2.92E+00
		2614.66	*	35.85	6.79E-01		7.06E-02
+	BI-210M	262.00		45.00	-1.63E-02	1.71E-01	1.71E-01
		300.00		23.00	1.10E-01		3.51E-01
+	PB-210	46.50		4.25	3.29E+00	2.59E+00	2.59E+00
+	PB-211	404.84		2.90	-2.84E-01	3.11E+00	3.11E+00
		831.96		2.90	2.10E+00		3.82E+00
+	BI-212	727.17	*	11.80	8.34E-01	1.22E+00	1.22E+00
		1620.62		2.75	-2.63E+00		4.72E+00
+	PB-212	238.63	*	44.60	8.39E-01	3.13E-01	3.13E-01
		300.09		3.41	7.40E-01		2.37E+00
+	BI-214	609.31	*	46.30	8.79E-01	2.60E-01	2.60E-01
		1120.29	*	15.10	6.13E-01		1.19E+00
		1764.49	*	15.80	6.03E-01		6.55E-01
		2204.22		4.98	2.66E-01		1.84E+00
+	PB-214	295.21	*	19.19	8.14E-01	3.34E-01	5.12E-01
		351.92	*	37.19	7.22E-01		3.34E-01
+	RN-219	401.80		6.50	-4.92E-01	1.33E+00	1.33E+00
+	RA-223	323.87	*	3.88	6.85E-01	2.69E+00	2.69E+00
+	RA-224	240.98	*	3.95	2.44E+00	3.55E+00	3.55E+00
+	RA-225	40.00		31.00	5.04E-01	1.38E+00	1.38E+00
+	RA-226	186.21		3.28	2.50E+00	2.38E+00	2.38E+00
+	TH-227	50.10		8.40	-1.85E+00	9.67E-01	9.67E-01
		236.00		11.50	2.55E+00		1.10E+00
		256.20		6.30	-1.61E-01		1.14E+00
+	AC-228	338.32	*	11.40	1.50E+00	4.31E-01	9.27E-01
		911.07	*	27.70	4.87E-01		4.31E-01
		969.11	*	16.60	6.33E-01		1.15E+00
+	TH-230	48.44		16.90	-1.46E-01	5.64E-01	5.64E-01
		62.85		4.60	2.90E+00		1.89E+00
		67.67		0.37	5.09E+00		1.85E+01
+	PA-231	283.67		1.60	-6.91E-01	3.57E+00	4.53E+00
		302.67		2.30	1.06E+00		3.57E+00
+	TH-231	25.64		14.70	-5.02E-01	1.04E+00	4.32E+00
		84.21		6.40	-1.13E+00		1.04E+00
+	PA-233	311.98		38.60	-5.88E-02	3.40E-01	3.40E-01
+	PA-234	131.20		20.40	9.12E-02	2.92E-01	2.92E-01
		733.99		8.80	3.73E-02		1.10E+00
		946.00		12.00	7.43E-02		9.47E-01
+	PA-234M	1001.03		0.92	8.17E+00	1.48E+01	1.48E+01
+	TH-234	63.29		3.80	1.17E+00	2.22E+00	2.22E+00

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	2.92E-01	5.55E-01	5.55E-01
		163.35	4.70	-1.89E-01		1.16E+00
		205.31	4.70	8.92E-03		1.53E+00
+	NP-237	86.50	12.60	2.36E-01	5.76E-01	5.76E-01
+	NP-239	106.10	22.70	2.12E+01	3.63E+02	3.63E+02
		228.18	10.70	-7.70E+01		1.00E+03
		277.60	14.10	2.22E+02		8.39E+02
+	AM-241	59.54	35.90	-2.03E-01	2.19E-01	2.19E-01
+	AM-243	74.67	66.00	3.19E-01	1.50E-01	1.50E-01
+	CM-243	209.75	3.29	3.91E-01	5.55E-01	2.22E+00
		228.14	10.60	-5.11E-02		6.66E-01
		277.60	14.00	1.47E-01		5.55E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.19E+00	1.19E+00	-3.40E-01	5.48E-01
	NA-22	1274.54		99.94	1.24E-01	1.24E-01	3.78E-02	5.42E-02
	NA-24	1368.53		99.99	1.20E+11	1.02E+11	1.28E+09	5.19E+10
		2754.09		99.86	1.02E+11		2.84E+10	3.82E+10
	AL-26	1808.65		99.76	8.05E-02	8.05E-02	-2.91E-02	3.01E-02
+	K-40	1460.81	*	10.67	9.89E-01	9.89E-01	1.06E+01	4.14E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.25E-02	7.25E-02	1.99E-02	3.49E-02
		78.34		96.00	9.01E-02		-2.12E-02	4.38E-02
	SC-46	889.25		99.98	1.14E-01	1.14E-01	-8.32E-02	4.99E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SC-46	1120.51	99.99	2.16E-01	1.14E-01	1.14E-01	9.97E-02
V-48	983.52	99.98	3.59E-01	3.59E-01	1.92E-01	1.61E-01
	1312.10	97.50	3.97E-01		7.17E-02	1.74E-01
CR-51	320.08	9.83	1.36E+00	1.36E+00	-2.01E-02	6.36E-01
MN-54	834.83	99.97	1.19E-01	1.19E-01	1.53E-02	5.40E-02
CO-56	846.75	99.96	1.19E-01	1.19E-01	-5.84E-02	5.26E-02
	1037.75	14.03	9.84E-01		2.51E-01	4.34E-01
	1238.25	67.00	2.88E-01		1.19E-01	1.30E-01
	1771.40	15.51	8.86E-01		-1.46E-01	3.63E-01
	2598.48	16.90	1.86E-01		0.00E+00	0.00E+00
CO-57	122.06	85.51	6.57E-02	6.57E-02	-7.67E-03	3.13E-02
	136.48	10.60	5.13E-01		-9.32E-02	2.43E-01
CO-58	810.76	99.40	1.30E-01	1.30E-01	1.18E-02	5.83E-02
FE-59	1099.22	56.50	3.23E-01	3.23E-01	4.01E-02	1.44E-01
	1291.56	43.20	4.19E-01		-3.94E-02	1.83E-01
CO-60	1173.22	100.00	1.63E-01	1.20E-01	1.19E-01	7.41E-02
	1332.49	100.00	1.20E-01		1.88E-02	5.20E-02
ZN-65	1115.52	50.75	2.55E-01	2.55E-01	8.57E-03	1.13E-01
GA-67	93.31	35.70	3.87E+01	3.87E+01	4.15E+01	1.87E+01
	208.95	2.24	6.49E+02		3.43E+02	3.10E+02
	300.22	16.00	1.00E+02		3.14E+01	4.75E+01
SE-75	121.11	16.70	3.50E-01	1.01E-01	-1.16E-01	1.66E-01
	136.00	59.20	1.01E-01		-1.41E-02	4.78E-02
	264.65	59.80	1.46E-01		-9.20E-02	6.91E-02
	279.53	25.20	3.53E-01		1.17E-01	1.67E-01
	400.65	11.40	8.87E-01		-1.83E-01	4.15E-01
RB-82	776.52	13.00	1.45E+00	1.45E+00	5.69E-02	6.49E-01
RB-83	520.41	46.00	2.27E-01	2.27E-01	-7.68E-02	1.04E-01
	529.64	30.30	3.16E-01		-2.14E-01	1.43E-01
	552.65	16.40	6.55E-01		-1.04E-02	2.99E-01
KR-85	513.99	0.43	2.88E+01	2.88E+01	2.82E+01	1.36E+01
SR-85	513.99	99.27	1.64E-01	1.64E-01	1.60E-01	7.71E-02
Y-88	898.02	93.40	1.39E-01	1.34E-01	-5.37E-02	6.25E-02
	1836.01	99.38	1.34E-01		3.31E-02	5.49E-02
NB-93M	16.57	9.43	1.06E+02	1.06E+02	2.77E+01	5.14E+01
NB-94	702.63	100.00	1.10E-01	9.77E-02	1.77E-02	5.02E-02
	871.10	100.00	9.77E-02		-1.75E-02	4.32E-02
NB-95	765.79	99.81	1.82E-01	1.82E-01	9.06E-02	8.27E-02
NB-95M	235.69	25.00	6.01E+01	6.01E+01	1.40E+02	2.92E+01
ZR-95	724.18	43.70	3.53E-01	2.42E-01	1.59E-02	1.62E-01
	756.72	55.30	2.42E-01		9.35E-02	1.09E-01
MO-99	181.06	6.20	5.13E+02	4.47E+02	-1.55E+02	2.44E+02
	739.58	12.80	4.47E+02		2.23E+02	2.03E+02
	778.00	4.50	1.13E+03		1.56E+02	5.07E+02
RU-103	497.08	89.00	1.58E-01	1.58E-01	2.83E-02	7.32E-02
RU-106	621.84	9.80	8.77E-01	8.77E-01	-4.34E-02	3.94E-01
AG-108M	433.93	89.90	9.39E-02	9.39E-02	1.22E-02	4.36E-02
	614.37	90.40	1.00E-01		-9.89E-03	4.54E-02
	722.95	90.50	1.12E-01		-2.24E-03	5.07E-02
CD-109	88.03	3.72	2.05E+00	2.05E+00	1.33E+00	9.91E-01
AG-110M	657.75	93.14	1.19E-01	1.19E-01	8.32E-03	5.45E-02
	677.61	10.53	9.15E-01		1.02E-01	4.11E-01
	706.67	16.46	7.00E-01		-1.31E-01	3.20E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	763.93	21.98	5.02E-01	1.19E-01	-4.46E-02	2.27E-01
	884.67	71.63	1.72E-01		6.61E-02	7.75E-02
	1384.27	23.94	5.14E-01		-3.58E-02	2.20E-01
CD-113M	263.70	0.02	3.35E+02	3.35E+02	-1.07E+02	1.59E+02
SN-113	255.12	1.93	4.22E+00	1.52E-01	-1.18E+00	1.99E+00
	391.69	64.90	1.52E-01		2.77E-05	7.08E-02
TE123M	159.00	84.10	7.79E-02	7.79E-02	3.63E-04	3.70E-02
SB-124	602.71	97.87	1.39E-01	1.39E-01	5.14E-03	6.42E-02
	645.85	7.26	1.87E+00		7.15E-01	8.55E-01
	722.78	11.10	1.21E+00		-2.43E-02	5.50E-01
	1691.02	49.00	2.32E-01		7.73E-02	8.99E-02
I-125	35.49	6.49	3.63E+00	3.63E+00	-1.74E+00	1.74E+00
SB-125	176.33	6.89	8.76E-01	2.89E-01	1.70E-01	4.16E-01
	427.89	29.33	2.89E-01		-3.35E-02	1.34E-01
	463.38	10.35	9.56E-01		3.68E-01	4.46E-01
	600.56	17.80	5.78E-01		7.24E-02	2.66E-01
	635.90	11.32	8.49E-01		-3.94E-01	3.86E-01
SB-126	414.70	83.30	4.39E-01	4.13E-01	1.80E-02	2.05E-01
	666.33	99.60	4.13E-01		-2.72E-01	1.88E-01
	695.00	99.60	4.18E-01		2.66E-02	1.90E-01
	720.50	53.80	7.44E-01		7.91E-02	3.36E-01
SN-126	87.57	37.00	1.98E-01	1.98E-01	1.29E-01	9.60E-02
SB-127	473.00	25.00	3.22E+01	2.33E+01	-2.81E+00	1.49E+01
	685.20	35.70	2.33E+01		-5.34E+00	1.05E+01
	783.80	14.70	6.73E+01		2.74E+01	3.05E+01
I-129	29.78	57.00	6.02E-01	6.02E-01	-1.63E-01	2.91E-01
	33.60	13.20	1.68E+00		5.05E-01	8.07E-01
	39.58	7.52	1.82E+00		6.63E-01	8.74E-01
I-131	284.30	6.05	1.03E+01	8.51E-01	-1.57E+00	4.83E+00
	364.48	81.20	8.51E-01		-3.39E-01	3.98E-01
	636.97	7.26	1.13E+01		-3.25E+00	5.14E+00
	722.89	1.80	4.81E+01		-9.61E-01	2.18E+01
TE-132	49.72	13.10	1.25E+02	1.60E+01	-2.40E+02	6.00E+01
	228.16	88.00	1.60E+01		-1.23E+00	7.60E+00
BA-133	81.00	33.00	1.88E-01	1.62E-01	-2.30E-01	9.05E-02
	302.84	17.80	4.64E-01		1.38E-01	2.19E-01
	356.01	60.00	1.62E-01		-2.32E-02	7.67E-02
I-133	529.87	86.30	4.05E+07	4.05E+07	-2.74E+07	1.84E+07
XE-133	81.00	38.00	4.38E+00	4.38E+00	-5.35E+00	2.10E+00
CS-134	563.23	8.38	1.08E+00	1.16E-01	-5.55E-01	4.92E-01
	569.32	15.43	6.05E-01		1.19E-01	2.77E-01
	604.70	97.60	1.16E-01		-5.42E-01	5.38E-02
	795.84	85.40	1.39E-01		1.53E-02	6.34E-02
	801.93	8.73	1.22E+00		4.02E-01	5.48E-01
CS-135	268.24	16.00	5.17E-01	5.17E-01	1.94E-01	2.46E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	3.11E+00	3.94E-01	1.32E+00	1.48E+00
	163.89	4.61	4.40E+00		-7.19E-01	2.08E+00
	176.55	13.56	1.57E+00		-5.07E-01	7.46E-01
	273.65	12.66	2.30E+00		-5.72E-01	1.09E+00
	340.57	48.50	8.03E-01		1.15E+00	3.83E-01

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	3.94E-01	3.94E-01	1.16E-01	1.77E-01
	1048.07	79.60	4.56E-01		-2.44E-01	1.97E-01
	1235.34	19.70	2.82E+00		6.65E-01	1.27E+00
CS-137	661.65	85.12	1.20E-01	1.20E-01	-5.16E-03	5.46E-02
LA-138	788.74	34.00	2.86E-01	1.79E-01	-2.19E-01	1.28E-01
	1435.80	66.00	1.79E-01		1.38E-02	7.67E-02
CE-139	165.85	80.35	7.69E-02	7.69E-02	-2.02E-02	3.64E-02
BA-140	162.64	6.70	3.17E+00	1.43E+00	-6.05E-02	1.50E+00
	304.84	4.50	6.81E+00		2.53E+00	3.21E+00
	423.70	3.20	1.08E+01		2.54E+00	5.06E+00
	437.55	2.00	1.63E+01		9.55E-01	7.53E+00
	537.32	25.00	1.43E+00		2.74E-01	6.58E-01
LA-140	328.77	20.50	1.69E+00	4.36E-01	4.85E-01	8.02E-01
	487.03	45.50	6.98E-01		-8.58E-02	3.20E-01
	815.85	23.50	1.64E+00		-2.74E-01	7.35E-01
	1596.49	95.49	4.36E-01		4.81E-02	1.81E-01
CE-141	145.44	48.40	1.96E-01	1.96E-01	-1.80E-02	9.33E-02
CE-143	57.36	11.80	1.81E+05	7.19E+04	-1.94E+04	8.73E+04
	293.26	42.00	7.19E+04		-7.78E+03	3.45E+04
	664.55	5.20	6.07E+05		1.64E+05	2.79E+05
CE-144	133.54	10.80	5.49E-01	5.49E-01	2.76E-01	2.62E-01
PM-144	476.78	42.00	2.17E-01	9.26E-02	-1.01E-01	1.00E-01
	618.01	98.60	9.26E-02		2.96E-02	4.18E-02
	696.49	99.49	1.06E-01		-3.39E-03	4.83E-02
PM-145	36.85	21.70	7.26E-01	3.88E-01	-2.49E-01	3.49E-01
	37.36	39.70	3.88E-01		1.82E-02	1.87E-01
	42.30	15.10	7.51E-01		-1.03E+00	3.60E-01
	72.40	2.31	3.61E+00		-2.68E+00	1.75E+00
PM-146	453.90	39.94	2.10E-01	2.10E-01	-7.96E-02	9.70E-02
	735.90	14.01	6.84E-01		-2.32E-01	3.07E-01
	747.13	13.10	7.28E-01		7.06E-02	3.26E-01
ND-147	91.11	28.90	1.20E+00	1.20E+00	-2.56E-01	5.82E-01
	531.02	13.10	3.01E+00		-5.40E-01	1.37E+00
PM-149	285.90	3.10	5.83E+03	5.83E+03	1.54E+03	2.75E+03
EU-152	121.78	20.50	2.58E-01	2.58E-01	-3.01E-02	1.23E-01
	244.69	5.40	1.55E+00		3.33E-02	7.38E-01
	344.27	19.13	4.22E-01		-2.44E-02	1.98E-01
	778.89	9.20	1.09E+00		-1.05E-01	4.88E-01
	964.01	10.40	1.40E+00		-9.90E-01	6.43E-01
	1085.78	7.22	1.52E+00		-1.82E-01	6.68E-01
	1112.02	9.60	1.23E+00		1.50E-01	5.41E-01
	1407.95	14.94	8.85E-01		3.58E-01	3.87E-01
GD-153	97.43	31.30	1.82E-01	1.82E-01	-8.02E-02	8.69E-02
	103.18	22.20	2.52E-01		-1.88E-02	1.20E-01
EU-154	123.07	40.50	1.38E-01	1.38E-01	3.16E-02	6.58E-02
	723.30	19.70	5.17E-01		-1.03E-02	2.34E-01
	873.19	11.50	8.75E-01		1.27E-01	3.88E-01
	996.32	10.30	9.95E-01		-2.01E-01	4.36E-01
	1004.76	17.90	6.84E-01		5.80E-02	3.07E-01
	1274.45	35.50	3.45E-01		1.05E-01	1.51E-01
EU-155	86.50	30.90	2.37E-01	2.37E-01	9.71E-02	1.15E-01
	105.30	20.70	2.57E-01		-6.19E-02	1.23E-01
EU-156	811.77	10.40	3.04E+00	3.04E+00	9.61E-01	1.36E+00

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	5.47E+00	3.04E+00	1.97E+00	2.43E+00
		1230.71		8.90	4.57E+00		-1.17E-01	2.02E+00
	HO-166M	184.41		72.60	1.07E-01	1.07E-01	1.09E-01	5.12E-02
		280.45		29.60	2.48E-01		-7.54E-02	1.17E-01
		410.94		11.10	8.49E-01		1.05E-02	3.98E-01
		711.69		54.10	1.85E-01		-4.43E-02	8.36E-02
	TM-171	66.72		0.14	4.93E+01	4.93E+01	-1.16E+02	2.37E+01
	HF-172	81.75		4.52	1.50E+00	5.23E-01	-9.14E-01	7.24E-01
		125.81		11.30	5.23E-01		-9.79E-02	2.50E-01
	LU-172	181.53		20.60	3.98E+00	2.49E+00	-5.66E+00	1.89E+00
		810.06		16.63	8.02E+00		2.20E+00	3.59E+00
		912.12		15.25	1.49E+01		3.39E-02	6.94E+00
		1093.66		62.50	2.49E+00		8.29E-01	1.10E+00
	LU-173	100.72		5.24	1.02E+00	3.99E-01	-2.47E-01	4.85E-01
		272.11		21.20	3.99E-01		1.18E-01	1.89E-01
	HF-175	343.40		84.00	1.22E-01	1.22E-01	-3.28E-02	5.73E-02
	LU-176	88.34		13.30	5.55E-01	7.67E-02	-7.01E-02	2.69E-01
		201.83		86.00	8.64E-02		2.35E-02	4.13E-02
		306.78		94.00	7.67E-02		-1.39E-02	3.59E-02
	TA-182	67.75		41.20	1.93E-01	1.93E-01	5.31E-02	9.31E-02
		1121.30		34.90	6.05E-01		5.57E-01	2.79E-01
		1189.05		16.23	9.49E-01		1.74E-01	4.22E-01
		1221.41		26.98	5.95E-01		3.42E-01	2.65E-01
		1231.02		11.44	1.38E+00		-1.13E-01	6.16E-01
	IR-192	308.46		29.68	2.96E-01	2.43E-01	-1.31E-01	1.38E-01
		468.07		48.10	2.43E-01		-1.27E-01	1.13E-01
	HG-203	279.19		77.30	1.43E-01	1.43E-01	3.93E-02	6.77E-02
	BI-207	569.67		97.72	9.68E-02	9.68E-02	3.92E-02	4.44E-02
		1063.62		74.90	1.40E-01		-6.64E-02	6.12E-02
+	TL-208	583.14	*	30.22	3.63E-01	7.06E-02	8.71E-01	1.68E-01
		860.37		4.48	2.92E+00		1.42E+00	1.33E+00
		2614.66	*	35.85	7.06E-02		6.79E-01	0.00E+00
	BI-210M	262.00		45.00	1.71E-01	1.71E-01	-1.63E-02	8.11E-02
		300.00		23.00	3.51E-01		1.10E-01	1.66E-01
	PB-210	46.50		4.25	2.59E+00	2.59E+00	3.29E+00	1.25E+00
	PB-211	404.84		2.90	3.11E+00	3.11E+00	-2.84E-01	1.45E+00
		831.96		2.90	3.82E+00		2.10E+00	1.73E+00
+	BI-212	727.17	*	11.80	1.22E+00	1.22E+00	8.34E-01	5.70E-01
		1620.62		2.75	4.72E+00		-2.63E+00	2.02E+00
+	PB-212	238.63	*	44.60	3.13E-01	3.13E-01	8.39E-01	1.52E-01
		300.09		3.41	2.37E+00		7.40E-01	1.12E+00
+	BI-214	609.31	*	46.30	2.60E-01	2.60E-01	8.79E-01	1.21E-01
		1120.29	*	15.10	1.19E+00		6.13E-01	5.49E-01
		1764.49	*	15.80	6.55E-01		6.03E-01	2.65E-01
		2204.22		4.98	1.84E+00		2.66E-01	6.88E-01
+	PB-214	295.21	*	19.19	5.12E-01	3.34E-01	8.14E-01	2.44E-01
		351.92	*	37.19	3.34E-01		7.22E-01	1.60E-01
	RN-219	401.80		6.50	1.33E+00	1.33E+00	-4.92E-01	6.22E-01
+	RA-223	323.87	*	3.88	2.69E+00	2.69E+00	6.85E-01	1.28E+00
+	RA-224	240.98	*	3.95	3.55E+00	3.55E+00	2.44E+00	1.73E+00
	RA-225	40.00		31.00	1.38E+00	1.38E+00	5.04E-01	6.65E-01
	RA-226	186.21		3.28	2.38E+00	2.38E+00	2.50E+00	1.14E+00
	TH-227	50.10		8.40	9.67E-01	9.67E-01	-1.85E+00	4.64E-01

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00		11.50	1.10E+00	9.67E-01	2.55E+00	5.33E-01
		256.20		6.30	1.14E+00		-1.61E-01	5.40E-01
+	AC-228	338.32	*	11.40	9.27E-01	4.31E-01	1.50E+00	4.42E-01
		911.07	*	27.70	4.31E-01		4.87E-01	1.94E-01
		969.11	*	16.60	1.15E+00		6.33E-01	5.35E-01
	TH-230	48.44		16.90	5.64E-01	5.64E-01	-1.46E-01	2.72E-01
		62.85		4.60	1.89E+00		2.90E+00	9.14E-01
		67.67		0.37	1.85E+01		5.09E+00	8.92E+00
	PA-231	283.67		1.60	4.53E+00	3.57E+00	-6.91E-01	2.13E+00
		302.67		2.30	3.57E+00		1.06E+00	1.69E+00
	TH-231	25.64		14.70	4.32E+00	1.04E+00	-5.02E-01	2.09E+00
		84.21		6.40	1.04E+00		-1.13E+00	5.00E-01
	PA-233	311.98		38.60	3.40E-01	3.40E-01	-5.88E-02	1.59E-01
	PA-234	131.20		20.40	2.92E-01	2.92E-01	9.12E-02	1.40E-01
		733.99		8.80	1.10E+00		3.73E-02	4.93E-01
		946.00		12.00	9.47E-01		7.43E-02	4.23E-01
	PA-234M	1001.03		0.92	1.48E+01	1.48E+01	8.17E+00	6.69E+00
	TH-234	63.29		3.80	2.22E+00	2.22E+00	1.17E+00	1.07E+00
	U-235	143.76		10.50	5.55E-01	5.55E-01	2.92E-01	2.65E-01
		163.35		4.70	1.16E+00		-1.89E-01	5.49E-01
		205.31		4.70	1.53E+00		8.92E-03	7.30E-01
	NP-237	86.50		12.60	5.76E-01	5.76E-01	2.36E-01	2.79E-01
	NP-239	106.10		22.70	3.63E+02	3.63E+02	2.12E+01	1.73E+02
		228.18		10.70	1.00E+03		-7.70E+01	4.77E+02
		277.60		14.10	8.39E+02		2.22E+02	3.97E+02
	AM-241	59.54		35.90	2.19E-01	2.19E-01	-2.03E-01	1.05E-01
	AM-243	74.67		66.00	1.50E-01	1.50E-01	3.19E-01	7.34E-02
	CM-243	209.75		3.29	2.22E+00	5.55E-01	3.91E-01	1.06E+00
		228.14		10.60	6.66E-01		-5.11E-02	3.16E-01
		277.60		14.00	5.55E-01		1.47E-01	2.62E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507092-07

FEEBRIS1D-10 074-076

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-10 074-076

Elapsed Live time: 3600
Elapsed Real Time: 3614

Channel								
1:	0	0	0	0	0	0	0	0
9:	6	117	126	108	66	60	70	64
17:	68	45	38	49	41	57	63	41
25:	54	52	51	56	45	46	54	54
33:	58	49	36	41	37	45	42	42
41:	44	44	39	29	41	68	88	30
49:	40	36	34	41	42	42	36	30
57:	39	42	61	47	53	51	83	117
65:	39	37	58	47	40	51	45	53
73:	49	69	158	87	187	116	37	37
81:	50	46	47	71	50	41	88	79
89:	50	58	45	48	105	62	35	32
97:	33	33	39	23	29	32	26	37
105:	28	25	38	34	38	29	30	34
113:	31	24	29	30	30	17	16	27
121:	31	30	26	27	42	34	33	30
129:	47	34	26	30	34	30	29	24
137:	17	22	27	25	24	32	29	38
145:	33	17	27	19	27	26	27	29
153:	30	35	39	26	28	26	22	24
161:	25	21	28	19	21	22	24	23
169:	22	27	29	26	25	24	23	24
177:	25	24	16	23	30	31	18	26
185:	31	79	43	18	23	28	34	21
193:	27	18	31	22	23	18	25	27
201:	21	32	24	12	17	20	20	19
209:	28	30	18	10	19	16	23	16
217:	16	33	24	11	22	20	19	14
225:	14	13	17	13	16	29	15	16
233:	20	17	20	17	29	95	174	46
241:	27	52	29	12	13	15	14	13
249:	11	14	13	12	12	12	12	14
257:	19	15	17	18	18	12	15	17
265:	15	20	13	14	23	19	21	12
273:	16	12	16	11	20	17	12	14
281:	13	12	12	10	12	17	10	15
289:	12	15	4	13	13	15	71	52
297:	9	13	12	19	13	12	20	15
305:	9	12	9	15	6	8	9	9
313:	12	13	9	7	11	7	12	7
321:	10	5	16	9	15	18	10	28
329:	18	9	13	9	14	13	6	12
337:	17	38	32	16	18	13	9	10
345:	3	7	16	7	12	12	42	110
353:	40	15	10	11	14	11	5	12
361:	14	8	9	9	9	9	11	14

369:	12	11	10	13	9	2	7	10

Sample Title: FEEBRIS1D-10 074-076

Channel								
377:	12	3	11	7	8	12	5	7
385:	10	10	9	8	8	8	10	7
393:	10	15	9	9	12	12	8	9
401:	11	7	13	9	10	13	10	10
409:	10	13	13	11	11	9	12	9
417:	8	10	5	10	6	14	9	12
425:	6	9	10	9	8	4	9	8
433:	6	12	5	6	9	10	6	9
441:	9	2	10	4	8	2	10	7
449:	8	12	7	5	8	5	7	10
457:	7	8	8	6	5	9	16	13
465:	9	8	5	8	11	9	8	8
473:	9	6	7	8	7	8	7	6
481:	9	11	9	9	3	7	7	9
489:	5	2	4	5	5	6	14	6
497:	7	4	7	6	3	11	5	12
505:	2	9	8	9	8	23	33	28
513:	4	6	4	10	7	3	4	8
521:	4	6	8	5	10	8	3	4
529:	7	4	3	5	6	6	6	6
537:	9	7	7	4	3	8	10	8
545:	8	2	7	6	5	6	3	4
553:	7	4	7	7	4	7	10	5
561:	5	10	4	6	5	2	6	8
569:	5	8	5	5	5	3	6	5
577:	3	7	9	4	9	17	44	31
585:	3	3	4	4	6	7	5	2
593:	2	3	6	4	3	7	4	10
601:	5	5	4	9	7	5	8	15
609:	68	49	9	2	2	4	5	5
617:	6	4	5	2	3	4	2	6
625:	4	5	1	4	5	4	4	4
633:	7	3	5	3	4	7	5	8
641:	10	4	5	7	6	4	7	3
649:	7	2	1	5	5	6	5	6
657:	4	4	2	3	15	6	4	3
665:	4	8	5	6	7	5	7	8
673:	7	8	0	4	1	5	5	7
681:	5	3	5	5	8	4	4	0
689:	6	3	7	5	2	6	7	4
697:	7	4	3	6	2	8	6	3
705:	5	9	6	6	7	1	7	4
713:	2	6	4	5	5	8	3	4
721:	5	5	0	9	4	4	16	11
729:	5	3	3	6	4	2	5	3
737:	4	5	3	6	9	4	3	1
745:	7	3	5	3	2	4	4	2
753:	2	4	4	7	3	4	6	1
761:	3	3	5	2	3	7	6	7
769:	4	3	2	4	3	4	1	6
777:	4	4	2	4	3	3	2	8
785:	11	3	3	3	3	4	6	2
793:	2	5	8	5	2	6	7	7

: 00448

801: 3 2 5 1 2 2 2 4

Sample Title: FEEBRIS1D-10 074-076

Channel								
809:	4	4	5	2	4	2	4	4
817:	0	4	6	7	2	5	0	6
825:	1	5	2	0	3	5	2	1
833:	5	5	8	2	4	5	3	5
841:	4	4	3	6	3	3	1	3
849:	2	2	3	7	3	2	7	2
857:	3	8	6	6	5	6	5	2
865:	3	6	2	3	2	4	0	5
873:	2	4	2	4	4	1	3	2
881:	5	0	6	4	4	6	3	1
889:	4	0	1	2	6	4	1	8
897:	7	3	0	2	4	7	3	5
905:	8	5	5	2	1	17	21	13
913:	1	6	5	9	1	3	3	3
921:	4	2	3	2	3	3	4	5
929:	4	9	3	2	6	6	3	4
937:	4	5	2	1	1	2	3	3
945:	2	4	5	5	2	5	4	3
953:	2	3	2	1	1	2	4	4
961:	9	2	6	4	9	5	5	12
969:	13	3	4	1	2	3	3	1
977:	2	0	5	5	2	2	4	5
985:	2	6	1	1	4	4	4	0
993:	2	4	0	1	3	5	2	5
1001:	3	8	6	3	3	2	2	1
1009:	4	2	3	4	2	0	0	1
1017:	2	4	2	5	4	1	3	4
1025:	1	2	4	0	0	1	3	2
1033:	3	2	5	0	5	3	1	3
1041:	2	0	3	7	1	1	2	1
1049:	2	1	6	2	1	3	3	1
1057:	5	4	4	1	2	3	5	0
1065:	2	3	2	5	2	4	4	0
1073:	4	4	1	4	0	5	5	4
1081:	3	2	2	5	1	3	1	3
1089:	2	5	1	1	1	3	3	6
1097:	1	1	4	4	3	3	3	2
1105:	1	1	2	1	2	4	1	3
1113:	3	2	4	4	2	2	10	22
1121:	5	2	3	5	3	1	1	5
1129:	3	3	1	3	2	4	3	3
1137:	2	4	4	3	3	3	2	3
1145:	3	1	4	4	1	2	3	2
1153:	1	5	3	5	2	0	3	2
1161:	2	2	2	3	6	1	2	1
1169:	1	6	2	5	5	9	5	3
1177:	1	4	2	5	6	2	1	2
1185:	3	3	0	2	3	3	5	6
1193:	1	4	0	2	3	4	6	2
1201:	2	7	5	2	3	4	2	6
1209:	5	2	0	1	4	3	3	2
1217:	1	4	2	3	2	5	2	5
1225:	1	1	1	3	7	3	1	3

1233:	2	3	3	5	4	7	3	5

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Channel								
1241:	2	2	3	1	3	3	1	5
1249:	4	3	2	0	4	4	2	3
1257:	7	1	3	0	0	0	1	3
1265:	6	1	3	2	2	1	1	4
1273:	0	0	2	3	1	4	0	0
1281:	3	3	0	0	2	2	2	0
1289:	4	1	0	5	1	2	1	3
1297:	1	1	3	1	0	1	3	0
1305:	3	1	1	0	3	3	1	3
1313:	3	2	2	1	4	0	3	1
1321:	1	0	2	3	2	3	0	1
1329:	1	2	3	2	3	0	1	1
1337:	2	0	3	1	0	4	2	1
1345:	1	2	1	2	0	1	2	0
1353:	1	2	2	2	0	1	2	0
1361:	1	2	0	0	4	2	0	1
1369:	1	2	2	2	1	3	2	5
1377:	6	2	4	4	0	0	1	1
1385:	1	2	1	2	1	0	2	1
1393:	1	0	0	0	1	0	0	1
1401:	2	1	0	1	5	1	1	2
1409:	4	1	0	1	1	1	0	1
1417:	1	1	1	3	3	0	0	2
1425:	0	0	1	0	3	1	2	0
1433:	0	0	2	2	2	3	1	1
1441:	2	3	1	0	0	1	0	1
1449:	0	0	0	1	1	0	1	1
1457:	0	4	29	83	51	14	2	2
1465:	0	1	0	0	0	0	0	0
1473:	3	0	0	1	0	0	0	1
1481:	0	1	0	2	1	1	3	1
1489:	1	2	0	0	2	2	1	2
1497:	2	2	0	2	3	0	0	3
1505:	1	0	4	2	1	1	1	3
1513:	3	2	2	1	1	0	1	0
1521:	3	0	1	1	0	2	1	0
1529:	1	2	0	0	1	2	1	0
1537:	3	4	1	0	2	2	1	0
1545:	0	0	2	1	1	1	2	0
1553:	2	0	0	0	1	0	0	0
1561:	1	1	1	0	0	0	1	3
1569:	0	2	1	0	1	0	1	1
1577:	2	0	0	0	1	0	0	4
1585:	0	0	0	3	2	3	1	1
1593:	1	2	2	0	0	0	2	0
1601:	0	0	0	1	0	1	1	2
1609:	1	0	1	1	0	0	2	0
1617:	1	0	3	3	1	1	3	0
1625:	5	3	0	0	1	0	2	1
1633:	1	2	1	0	0	0	0	0
1641:	0	2	3	0	0	0	1	0
1649:	1	1	1	4	1	2	0	0
1657:	1	2	0	1	0	1	2	1

1665:	0	0	0	0	2	1	1	0

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Channel								
1673:	0	1	0	0	1	1	1	0
1681:	1	0	2	0	0	0	0	2
1689:	1	0	1	0	0	0	0	0
1697:	0	0	1	1	3	0	2	1
1705:	1	0	0	0	0	0	3	1
1713:	0	0	0	1	0	0	0	0
1721:	0	0	0	2	0	0	3	2
1729:	2	3	0	0	2	0	0	0
1737:	0	1	1	0	1	0	2	0
1745:	0	1	1	1	0	2	3	0
1753:	0	0	1	1	2	1	1	1
1761:	0	2	1	6	3	3	2	0
1769:	1	1	0	1	1	0	1	0
1777:	1	1	0	0	2	0	0	1
1785:	0	0	1	1	1	1	1	0
1793:	0	0	0	1	2	0	0	0
1801:	2	0	1	1	1	0	0	0
1809:	0	0	1	0	1	0	1	1
1817:	1	0	1	1	1	0	1	1
1825:	1	0	2	1	1	1	0	3
1833:	2	0	0	0	0	0	2	0
1841:	0	0	0	1	1	0	1	2
1849:	0	1	0	0	1	0	0	2
1857:	0	1	0	0	0	0	0	0
1865:	0	1	0	1	3	2	2	0
1873:	1	0	1	1	1	1	0	0
1881:	0	0	0	1	3	2	0	0
1889:	1	0	3	0	0	0	0	0
1897:	0	0	0	1	0	0	0	1
1905:	1	1	1	0	1	0	3	0
1913:	0	2	0	1	1	1	0	0
1921:	0	0	1	0	0	1	1	0
1929:	0	0	0	0	1	1	0	1
1937:	0	2	0	1	0	0	0	0
1945:	0	0	0	0	2	1	0	0
1953:	0	0	0	0	0	0	2	0
1961:	0	1	0	1	0	0	0	0
1969:	0	1	0	0	1	1	0	0
1977:	0	0	0	1	0	2	0	1
1985:	1	1	0	0	0	1	0	0
1993:	2	0	0	0	1	2	1	1
2001:	0	0	0	1	0	0	0	0
2009:	1	1	0	0	1	0	0	0
2017:	1	0	0	0	0	0	0	0
2025:	1	1	1	0	0	2	2	3
2033:	1	1	0	0	3	1	1	0
2041:	0	0	0	0	0	0	0	2
2049:	0	1	0	1	1	0	0	1
2057:	0	0	1	1	0	0	0	0
2065:	0	0	0	0	0	0	1	0
2073:	3	0	0	0	1	0	0	1
2081:	1	0	0	1	0	0	0	1
2089:	0	0	0	0	0	1	0	0

2097:	1	1	0	1	1	1	0	1

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Channel								
2105:	1	1	0	0	0	0	0	2
2113:	0	1	0	0	2	3	2	1
2121:	0	1	0	0	0	0	2	0
2129:	0	0	1	1	2	0	0	0
2137:	0	0	0	0	0	0	1	0
2145:	0	1	0	0	1	0	1	0
2153:	0	0	0	0	0	1	0	0
2161:	1	0	0	1	1	0	1	1
2169:	1	0	2	0	2	1	0	0
2177:	1	0	0	2	0	1	2	2
2185:	2	0	0	0	0	0	0	1
2193:	2	1	0	1	0	0	0	0
2201:	0	1	0	1	0	0	0	1
2209:	0	1	0	0	0	0	0	0
2217:	0	1	0	1	0	0	0	1
2225:	0	0	0	0	0	0	0	0
2233:	1	0	1	2	0	0	1	0
2241:	1	0	0	0	1	0	0	0
2249:	1	0	0	0	1	0	3	2
2257:	0	1	1	0	0	0	0	0
2265:	0	0	0	1	0	0	0	1
2273:	0	1	2	0	1	1	0	1
2281:	0	0	0	0	0	0	1	0
2289:	0	0	0	1	0	1	0	2
2297:	0	0	2	0	0	0	2	0
2305:	0	0	1	0	1	0	0	1
2313:	3	0	2	1	2	0	1	0
2321:	0	1	0	0	1	0	0	0
2329:	1	0	1	0	0	1	1	0
2337:	0	1	0	0	0	1	0	0
2345:	1	0	0	1	0	0	0	0
2353:	1	0	0	0	0	1	0	0
2361:	0	0	0	0	0	2	0	0
2369:	0	0	1	0	0	0	0	0
2377:	0	1	1	0	1	1	2	1
2385:	0	1	1	0	0	1	0	1
2393:	0	1	1	0	1	0	0	0
2401:	1	0	1	0	0	1	2	0
2409:	0	0	0	0	0	1	0	0
2417:	0	0	0	0	0	0	0	0
2425:	0	0	0	1	0	0	0	0
2433:	0	0	0	0	0	1	1	3
2441:	1	0	0	0	0	1	0	0
2449:	0	0	0	0	0	0	1	0
2457:	2	0	0	0	0	0	0	0
2465:	1	0	0	0	1	0	0	0
2473:	1	0	0	0	0	0	0	0
2481:	0	2	0	0	0	0	0	0
2489:	0	1	0	0	0	0	0	0
2497:	0	1	0	0	0	0	0	0
2505:	0	0	1	0	0	1	0	1
2513:	1	0	0	1	0	0	0	0
2521:	0	0	0	0	0	1	1	0

2529:	2	0	0	0	0	1	0	0

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Channel								
2537:	0	2	0	0	0	0	0	0
2545:	1	0	0	0	2	0	0	1
2553:	0	0	1	0	0	3	0	0
2561:	1	0	3	0	0	0	0	0
2569:	0	0	1	0	1	0	0	1
2577:	0	1	0	1	0	0	1	0
2585:	1	0	0	0	1	0	1	0
2593:	0	0	0	0	0	0	0	0
2601:	0	0	0	2	2	0	1	0
2609:	0	0	1	7	6	8	4	0
2617:	0	0	0	0	0	0	0	0
2625:	0	1	0	0	0	1	0	0
2633:	0	0	0	0	1	0	0	0
2641:	1	1	0	0	1	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	1	1	0	0	1	1	0
2665:	0	0	0	0	1	0	0	0
2673:	0	0	0	1	0	0	1	0
2681:	0	0	0	0	0	0	0	0
2689:	1	0	1	0	0	1	0	0
2697:	0	0	0	1	0	0	0	1
2705:	1	0	0	0	0	0	0	0
2713:	1	0	0	1	0	1	0	0
2721:	0	1	0	0	0	2	0	1
2729:	0	0	0	0	0	0	0	0
2737:	0	0	1	0	0	1	0	0
2745:	0	0	0	0	0	0	0	0
2753:	1	0	0	2	0	0	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	0	2
2777:	0	0	1	0	0	0	0	0
2785:	0	0	0	0	0	1	1	0
2793:	0	0	0	0	0	0	0	1
2801:	0	0	0	0	0	0	2	0
2809:	0	0	0	0	0	0	0	1
2817:	0	0	0	0	0	3	0	0
2825:	0	0	0	0	0	0	1	0
2833:	0	0	0	1	0	0	0	0
2841:	0	0	1	0	0	1	0	0
2849:	0	0	0	0	0	0	1	0
2857:	0	0	0	0	0	0	0	0
2865:	0	1	0	0	0	1	0	0
2873:	0	0	0	0	0	0	0	1
2881:	0	1	0	1	0	0	0	0
2889:	0	1	0	0	1	0	0	0
2897:	0	0	0	0	1	0	1	0
2905:	1	0	0	0	1	0	1	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	1	0	0	0
2929:	0	0	0	1	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	1	0	1

2961:	1	0	0	0	2	0	0	0

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Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	1	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	1	0	0	0	0	0	0
3009:	0	1	0	0	0	1	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	2	0	2	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	1	0	0	0	0	0
3057:	0	1	0	0	0	1	0	0
3065:	0	0	0	0	1	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	1	1	0
3089:	0	0	0	0	0	0	0	0
3097:	0	1	0	0	0	0	0	0
3105:	0	0	1	0	0	0	0	0
3113:	0	0	0	0	0	0	0	1
3121:	0	0	0	0	0	0	1	1
3129:	0	0	1	0	1	0	1	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	1	0	0	0	0
3153:	0	1	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	1	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	1	0	1	0	0	0
3209:	1	0	1	0	0	0	0	0
3217:	0	1	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	1	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	1	0	0	0	0
3265:	0	0	0	1	0	0	0	0
3273:	0	1	0	0	0	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	1	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	1	0	0	0
3353:	0	0	0	1	0	1	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	1	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	1	1	0	2	0	1	0

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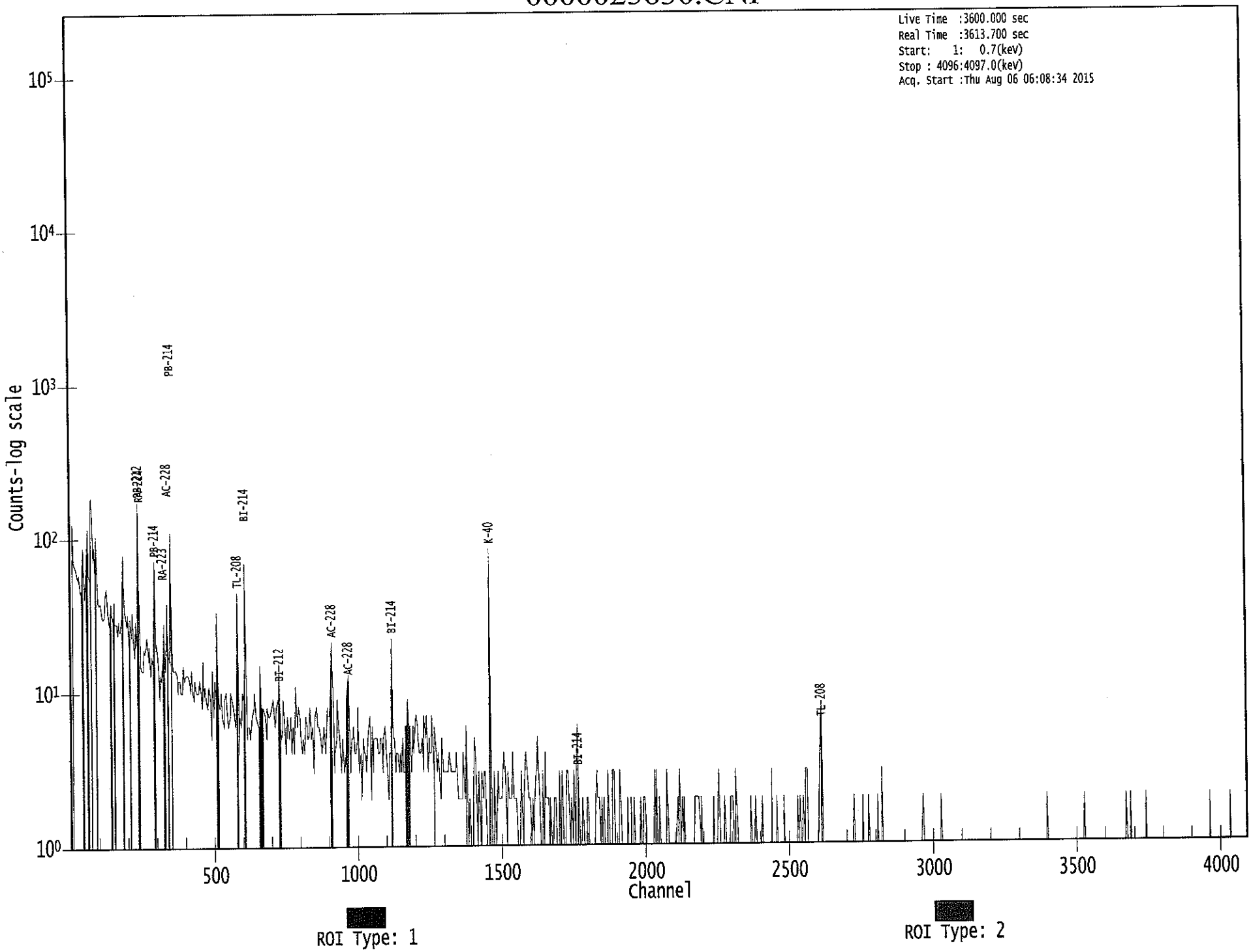
Channel								
3401:	0	0	0	0	0	0	1	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	1	0	1	0
3425:	0	0	0	1	1	0	0	0
3433:	1	0	0	0	0	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	1	1	0	0	0	0
3489:	0	0	0	0	0	1	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	1	0	0	0	0	0
3521:	0	0	1	0	0	0	2	1
3529:	1	0	0	0	0	0	0	0
3537:	0	0	0	1	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	1	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	1	1
3593:	0	0	0	0	0	0	1	1
3601:	0	0	0	0	0	0	1	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	1	0	0
3625:	1	0	0	0	0	0	0	0
3633:	0	0	0	0	1	0	0	0
3641:	0	0	0	0	0	0	1	1
3649:	1	0	0	0	0	0	1	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	1	2	0	0
3673:	0	0	1	1	0	0	0	0
3681:	0	0	0	0	0	2	0	0
3689:	0	0	0	0	0	1	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	1	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	1	0	0	0	0	0	0	0
3737:	0	0	0	2	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	1	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	0	0	0	0
3785:	1	0	0	0	0	0	0	0
3793:	0	1	0	0	1	0	0	0
3801:	1	0	0	1	0	0	0	0
3809:	0	0	0	0	0	0	0	1
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-10 074-076

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	1	1
3865:	0	0	0	1	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	1	0	0
3897:	0	0	1	0	0	0	0	0
3905:	0	0	0	0	0	0	0	1
3913:	0	0	0	0	0	1	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	1	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	1	0	0	0
3953:	1	0	0	0	0	0	0	0
3961:	1	0	2	0	1	0	0	0
3969:	0	0	1	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	1	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	1	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	2	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	1	0	0	0	0
4065:	0	0	0	0	1	0	0	0
4073:	1	0	0	0	0	0	0	0
4081:	1	0	0	0	0	0	0	1
4089:	0	0	0	1	0	0	0	0

0000025630.CNF



****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/4/15 5:47:24 AM

817

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/4/15 5:32:10 AM
Measurement Date: 8/4/15 5:32:12 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1	2.2789E+000	3.0824E-001
[SD: 2.1655E+000+/- 0.368]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/4/15 5:47:33 AM

8/7

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/4/15 5:32:18 AM
Measurement Date: 8/4/15 5:32:20 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2 [SD: 4.5753E+000+/- 0.281]	4.4344E+000	-5.0092E-001 < : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/4/15 5:24:41 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/4/15 5:08:55 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 930.5 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6157E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8358E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3157E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.0751E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1595E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6156E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5389E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

Decay corrected activity 6.3627E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity Boundary Limits: [7.978E-002, 1.197E-001] Trend Test: The last 9 samples exhibit a bias trend.	1.0428E+005	< : : : >
Decay corrected activity Boundary Limits: [1.714E-001, 2.571E-001]	2.1930E+005	< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/4/15 5:24:30 AM

C
B17

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/4/15 5:08:47 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 928.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0240E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6176E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.01 ke	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0718E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	1.8171E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.2756E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.5500E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4598E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.0190E+003	

Boundary Limits: [4.716E-003, 7.075E-003] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.0438E+004	
Boundary Limits: [7.572E-003, 1.136E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.8009E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
8/6/15 6:01:26 AM

8/6

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004B.QCK

Detector: GE4
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/6/15 5:46:11 AM
Measurement Date: 8/6/15 5:46:13 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 904.6 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE4 [SD: 9.7620E+000+/-175.07]	1.6178E+000	-4.6518E-002 < : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/6/15 6:01:17 AM

8/6

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/6/15 5:46:03 AM
Measurement Date: 8/6/15 5:46:04 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 903.5 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3 [SD: 2.3088E+003+/-1573.7]	1.7160E+003	-3.7667E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/6/15 6:01:08 AM

86

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/6/15 5:45:55 AM
Measurement Date: 8/6/15 5:45:57 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2	4.3400E+000	-8.3429E-001
[SD: 4.5745E+000+/- 0.281]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/6/15 6:01:00 AM

8/6

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/6/15 5:45:47 AM
Measurement Date: 8/6/15 5:45:48 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1	2.2256E+000	1.6239E-001
[SD: 2.1659E+000+/- 0.367]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/6/15 5:32:57 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004GAW-14C.QCK

Detector: GE4
Geometry: <None>
Certificate: GAW-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/6/15 5:16:51 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 953.7 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.8596E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6085E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3318E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8355E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	2.2577E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.6775E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.7725E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	3.0674E+000	
Boundary Limits: [5.000E-001, 3.500E+000]		< : : : >
Decay corrected activity	1.2212E+005	
Boundary Limits: [1.200E-001, 1.816E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Decay corrected activity 6.2010E+004
Boundary Limits: [4.918E-002, 7.377E-002] < : : : >

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	9.8224E+004	
Boundary Limits: [7.892E-002, 1.184E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1599E+005	
Boundary Limits: [1.695E-001, 2.543E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/6/15 5:32:38 AM

816

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/6/15 5:16:43 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 945.2 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9657E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6144E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Peak centroid 1332.49 ke	1.3318E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8351E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.9267E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1017E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2029E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6063E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5887E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Decay corrected activity	6.4359E+004	
Boundary Limits: [4.969E-002, 7.453E-002]		< : : : >
Decay corrected activity	9.9355E+004	

Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	2.1864E+005	
Boundary Limits: [1.713E-001, 2.569E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/6/15 5:32:18 AM

8/14

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/6/15 5:16:35 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 930.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6155E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3487E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.0993E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1324E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.5715E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5255E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	6.2902E+004	
Boundary Limits: [4.971E-002, 7.457E-002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0372E+005	
Boundary Limits: [7.978E-002, 1.197E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1526E+005	
Boundary Limits: [1.714E-001, 2.571E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/6/15 5:32:09 AM

8/6

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/6/15 5:16:28 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 927.9 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0242E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6179E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.01 ke	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0661E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	1.7477E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.3236E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.4465E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4729E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >

Decay corrected activity 6.2395E+003
Boundary Limits: [4.716E-003, 7.075E-003] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity Boundary Limits: [7.572E-003, 1.136E-002] Trend Test: The last 9 samples exhibit a bias trend.	1.0217E+004	< : : : >
Decay corrected activity Boundary Limits: [1.626E-002, 2.440E-002] Trend Test: The last 9 samples exhibit a bias trend.	1.9280E+004	< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-07182-OR

August 28, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

S0000

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 15-07182

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		7/30/15	KC	Sample Log-In
		8/24/15	JG	Data Compilation
		8.24.15	MH	First Technical Data Review
		8/24/15	MSt	Second Technical Data Review
		8/27/15	S	Data Entry/Electronic Deliverable
		8/27/15	S	Case Narrative
		8/27/15	KBS	Electronic Deliverable Proof
		8/27/15	MSt	Samples Analyzed within Holding Time Yes? [✓] No? [ ]
		8/27/15	MSt	QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: _____ 8/28/15

Laboratory Manager Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7121

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: Bridgeton	Project Number: BOR/ENG ID
Send Report To: C. Greene	Sampler (Print Name): Alex Luna
Address: 9821 Cogdill Rd #1	Sampler (Print Name):
Knoxville, TN 37932	Shipment Method: Fedex
	Airbill Number:
Phone: 865-675-3669	Laboratory Receiving:
~~Fax~~ CGREENE@AUXIER.com	

Page 1 of 1

15-07182

Purchase Order #: ENG/BOR ID

	Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Gamma Spec	ISO Thorium	ISO Uranium	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4	FEEBRISID-5.063-064	7/20/15	1428	S	1	X	X	X		
5	FEEBRISID-5.051-052	7/20/15	1404	S	1	X	X	X		
6	FEEBRISID-6.080-081	7/21/15	0953	S	1	X	X	X		
7	FEEBRISID-6.085-086	7/21/15	0958	S	1	X	X	X		
8	FEEBRISID-7.093-094	7/24/15	1450	S	1	X	X	X		
9	FEEBRISID-16.050-051	7/27/15	0944	S	1	X	X	X		
10	FEEBRISID-16.059-061	7/27/15	1014	S	1	X	X	X		
11	DUPLICATE #4	7/27/15	1014	S	1	X	X	X		

N/A

RECD JUL 30 2015

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		7/27/15	1101
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Kristen Carlston	7/30/15	850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☐
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other _____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

EBERLINE SERVICES Oak Ridge Laboratory	Internal Chain of Custody	Work Order #	15-07182
		Lab Deadline	8/21/2015
		Analysis	UUISO - Level 4
		Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	40	B1.3
	05	44	B1.3
	06	35	B1.3
	07	38	B1.3
	08	31	B1.3
	09	50	B1.3
	10	36	B1.3
	11	41	B1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1300	Kerry Seig	7-30-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0828	Kerry Seig	8-3-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8/10/15 0600
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8/11/15 0800
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8-11-15 0800
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8-14-15 0804
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8/14 0804
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB	8/14/15 1718
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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EBERLINE SERVICES Oak Ridge Laboratory	Internal Chain of Custody	Work Order #	15-07182
		Lab Deadline	8/21/2015
		Analysis	ThISO - Level 4
		Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	40	B1.3
	05	44	B1.3
	06	35	B1.3
	07	38	B1.3
	08	31	B1.3
	09	50	B1.3
	10	36	B1.3
	11	41	B1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1300	Kerry Soeis	7-30-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 0820	Kerry Soeis	8-3-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8-10-15 0600
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8/11/15 0800
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8-11-15 0800
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8-13-15 0806
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	8/13 0806
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB	8/13/15 1435
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-07182
Lab Deadline	8/21/2015
Analysis	Gamma - Level 4
Sample Matrix	Soil/Solid

Comments

21 day ingrowth: Report Ac228, Bi214, K40, Pa231, Pb210/212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives..

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	40	B1.3
05	44	B1.3
06	35	B1.3
07	38	B1.3
08	31	B1.3
09	50	B1.3
10	36	B1.3
11	41	B1.3

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room B00	Kenj Soley	7-30-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 0917	Kenj Soley	7-31-15
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	IGB	7/31/15 0917
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	C2012	0938
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	07/30/2015	28	15-07182
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	Bridgeton	H	08/21/2015	08/26/2015	08/27/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																							Ttl
01	LCS	07/30/15	SO	B1.3	X	X	X																							3
02	BLANK	07/30/15	SO	B1.3	X	X	X																							3
03	DUP	07/30/15	SO	B1.3	X	X	X																							3
04	FEEBRIS1D-5 063-064	07/20/15 14:28	SO	B1.3	X	X	X																							3
05	FEEBRIS1D-5 051-052	07/20/15 14:04	SO	B1.3	X	X	X																							3
06	FEEBRIS1D-6 080-081	07/21/15 09:53	SO	B1.3	X	X	X																							3
07	FEEBRIS1D-6 085-086	07/21/15 09:58	SO	B1.3	X	X	X																							3
08	FEEBRIS1D-7 093-094	07/24/15 14:50	SO	B1.3	X	X	X																							3
09	FEEBRIS1D-16 050-051	07/27/15 09:44	SO	B1.3	X	X	X																							3
10	FEEBRIS1D-16 059-061	07/27/15 10:14	SO	B1.3	X	X	X																							3
11	DUPLICATE 4	07/27/15 10:14	SO	B1.3	X	X	X																							3
																														0
																														0
																														0
																														0
																														0
																														0
																														0
																														0
																														0
	Totals Per Analysis (non QA samples)				8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		Report Data		
	West Lake Landfill OU-1 Resp		Cecilia Greene	Marsha Joseph
	AMO Environmental Decisions		Auxier & Associates, Inc.	Auxier, Inc.
	PO Box 410		9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Danboro, PA 18916		Knoxville, TN 37932	Knoxville, TN 37932
Voice	215-230-8282	*Voice*	865-675-0379	865-675-3669
Fax	215-230-8283	*Fax*	865-675-3677	865-675-3677
Contact	Marsha Joseph			
Voice	865-675-3669			
Fax	865-675-3677			

0010

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Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-07182

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS (NON-AQUEOUS)

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kristen Carlstein DATE: 7/30/15

SECTION III

CASE NARRATIVE

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39588

August 28, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-07182-OR

SAMPLE RECEIPT

This work order contains eight soil samples received 07/30/2015. These samples were analyzed for Isotopic Uranium, Isotopic Thorium and by Gamma Spectroscopy.

CLIENT ID	LAB ID	CLIENT ID	LAB ID
FEEBRIS1D-5 063-064	15-07182-04	FEEBRIS1D-7 093-094	15-07182-08
FEEBRIS1D-5 051-052	15-07182-05	FEEBRIS1D-16 050-051	15-07182-09
FEEBRIS1D-6 080-081	15-07182-06	FEEBRIS1D-16 059-061	15-07182-10
FEEBRIS1D-6 085-086	15-07182-07	DUPLICATE 4	15-07182-11

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

ISOTOPIC URANIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

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ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM CONTINUED

Samples demonstrated acceptable results for all Uranium analyses. Chemical recovery was acceptable for all samples. The Uranium-234, Uranium-235 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-234 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Uranium-235 and Uranium-238 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-227, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Thorium analyses. Actinium-227 results were reported from Thorium-227 assuming secular equilibrium. Thorium-230 results for sample fraction -11 (Client ID: DUPLICATE 4) demonstrated slightly high detection limits. Chemical recovery was acceptable for all samples. The Thorium-227, Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-230 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-232 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

Samples were dried, homogenized and placed into appropriate gamma spectroscopy geometry containers. Samples were then sealed for 21 days to allow for ingrowth of Radon-222 and progeny. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors. Energy lines from Lead-214 and Bismuth-214 were analyzed for determinations of Radium-226 activity.

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Bismuth-214, Potassium-40 and Lead-214 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

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CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 8/28/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

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SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07182
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07182-01	LCS	KNOWN	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-07182-01	LCS	KNOWN	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-07182-01	LCS	SPIKE	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Cobalt-60	LANL ER-130 Modified	1.40E+02	8.19E+00	1.09E+01	8.37E-01	7.53E-01	pCi/g
15-07182-01	LCS	SPIKE	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Cesium-137	LANL ER-130 Modified	9.20E+01	8.26E+00	9.51E+00	1.06E+00	5.24E-01	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Actinium-228	LANL ER-130 Modified	6.07E-02	5.44E-02	5.45E-02	1.15E-01	5.06E-02	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Bismuth-214	LANL ER-130 Modified	4.02E-02	4.57E-02	4.57E-02	7.95E-02	3.67E-02	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Potassium-40	LANL ER-130 Modified	2.35E-01	1.85E-01	1.85E-01	4.10E-01	1.79E-01	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Protactinium-231	LANL ER-130 Modified	6.48E-02	6.45E-01	6.45E-01	8.90E-01	4.08E-01	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Lead-210	LANL ER-130 Modified	7.75E-01	5.53E-01	5.55E-01	8.83E-01	4.19E-01	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Lead-212	LANL ER-130 Modified	2.70E-02	3.74E-02	3.74E-02	5.51E-02	2.59E-02	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Lead-214	LANL ER-130 Modified	1.14E-02	5.04E-02	5.04E-02	7.10E-02	3.30E-02	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Radium-226	LANL ER-130 Modified	4.02E-02	4.57E-02	4.57E-02	7.95E-02	3.09E-01	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Radium-228	LANL ER-130 Modified	6.07E-02	5.44E-02	5.45E-02	1.15E-01		pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Thorium-234	LANL ER-130 Modified	3.05E-01	2.68E-01	2.68E-01	4.71E-01	2.21E-01	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/20/2015	15-07182	Thallium-208	LANL ER-130 Modified	1.77E-02	5.11E-02	5.11E-02	8.59E-02	3.85E-02	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	7.94E-01	2.11E-01	2.15E-01	2.87E-01	1.32E-01	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	9.95E-01	1.58E-01	1.66E-01	2.10E-01	1.00E-01	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	1.54E+01	1.95E+00	2.11E+00	7.50E-01	3.31E-01	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	4.17E-01	1.45E+00	1.45E+00	2.40E+00	1.14E+00	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	1.88E+00	1.67E+00	1.68E+00	2.76E+00	1.35E+00	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	1.02E+00	1.37E-01	1.47E-01	2.27E-01	1.11E-01	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	1.00E+00	1.43E-01	1.52E-01	2.43E-01	1.17E-01	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	9.95E-01	1.58E-01	1.66E-01	2.10E-01	1.18E+00	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	7.94E-01	2.11E-01	2.15E-01	2.87E-01		pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	1.81E+00	1.57E+00	1.57E+00	2.60E+00	1.28E+00	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	7.34E-01	1.37E-01	1.42E-01	1.99E-01	1.80E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07182
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	8.39E-01	2.08E-01	2.13E-01	4.71E-01	2.24E-01	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	1.06E+00	1.72E-01	1.81E-01	2.62E-01	1.26E-01	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	1.50E+01	1.98E+00	2.13E+00	1.18E+00	5.44E-01	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	-1.12E-01	9.64E-01	9.64E-01	2.32E+00	1.10E+00	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	1.51E+00	1.69E+00	1.69E+00	2.82E+00	1.38E+00	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	9.87E-01	1.34E-01	1.44E-01	1.99E-01	9.67E-02	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	1.05E+00	1.40E-01	1.50E-01	1.99E-01	9.52E-02	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	1.06E+00	1.72E-01	1.81E-01	2.62E-01	1.04E+00	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	8.39E-01	2.08E-01	2.13E-01	4.71E-01		pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	2.47E+00	1.35E+00	1.36E+00	1.92E+00	9.33E-01	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	6.45E-01	1.57E-01	1.60E-01	1.92E-01	1.71E-01	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	1.35E+00	6.46E-01	6.50E-01	1.45E+00	7.05E-01	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	5.39E+01	3.25E+00	4.27E+00	7.48E-01	3.64E-01	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	1.46E+01	3.73E+00	3.81E+00	4.99E+00	2.41E+00	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	1.14E+00	1.20E+01	1.20E+01	1.47E+01	7.23E+00	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	9.37E+01	1.60E+01	1.67E+01	2.01E+01	9.99E+00	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	1.13E+00	3.84E-01	3.89E-01	1.40E+00	6.93E-01	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	7.25E+01	4.76E+00	6.04E+00	1.29E+00	6.38E-01	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	5.39E+01	3.25E+00	4.27E+00	7.48E-01	7.67E+00	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	1.35E+00	6.46E-01	6.50E-01	1.45E+00		pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	1.03E+01	5.80E+00	5.82E+00	8.73E+00	4.32E+00	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	7.19E-01	2.43E-01	2.45E-01	2.63E-01	6.94E-01	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	1.11E+00	2.48E-01	2.55E-01	4.98E-01	2.29E-01	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	5.90E-01	2.22E-01	2.24E-01	3.58E-01	1.70E-01	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	3.51E+00	1.16E+00	1.18E+00	1.29E+00	5.69E-01	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	9.69E-01	2.24E+00	2.24E+00	3.19E+00	1.49E+00	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	3.64E+00	1.95E+00	1.96E+00	3.26E+00	1.56E+00	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	9.00E-01	1.64E-01	1.71E-01	2.87E-01	1.39E-01	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	5.55E-01	1.80E-01	1.82E-01	2.95E-01	1.40E-01	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	5.90E-01	2.22E-01	2.24E-01	3.58E-01	1.05E+00	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	1.11E+00	2.48E-01	2.55E-01	4.98E-01		pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	2.06E+00	1.09E+00	1.09E+00	1.93E+00	9.23E-01	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	8.59E-01	1.92E-01	1.97E-01	2.44E-01	1.62E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

00018

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07182
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	4.73E-01	2.16E-01	2.17E-01	4.93E-01	2.30E-01	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	4.95E-01	1.30E-01	1.33E-01	2.00E-01	9.28E-02	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	1.25E+01	1.97E+00	2.07E+00	1.42E+00	6.50E-01	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	-5.50E-02	1.47E+00	1.47E+00	2.46E+00	1.15E+00	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	2.27E+00	1.60E+00	1.60E+00	2.31E+00	1.11E+00	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	5.66E-01	1.18E-01	1.22E-01	2.38E-01	1.15E-01	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	4.31E-01	1.37E-01	1.39E-01	2.64E-01	1.26E-01	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	4.95E-01	1.30E-01	1.33E-01	2.00E-01	1.09E+00	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	4.73E-01	2.16E-01	2.17E-01	4.93E-01		pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	3.07E+00	1.39E+00	1.39E+00	2.10E+00	1.01E+00	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	5.06E-01	1.51E-01	1.53E-01	1.83E-01	1.68E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	6.08E-01	3.05E-01	3.07E-01	5.07E-01	2.34E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	1.50E+00	2.65E-01	2.76E-01	2.22E-01	1.81E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	1.39E+01	2.50E+00	2.60E+00	1.56E+00	7.00E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	1.67E-01	2.16E+00	2.16E+00	4.09E+00	1.96E+00	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	1.08E+00	7.11E-01	7.13E-01	1.17E+00	5.70E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	7.08E-01	1.74E-01	1.78E-01	2.89E-01	1.41E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	1.43E+00	2.39E-01	2.50E-01	3.20E-01	1.54E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	1.50E+00	2.65E-01	2.76E-01	2.22E-01	1.37E+00	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	6.08E-01	3.05E-01	3.07E-01	5.07E-01		pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	1.06E-01	6.34E-01	6.34E-01	1.89E+00	9.31E-01	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	1.25E-01	2.55E-01	2.55E-01	4.22E-01	1.99E-01	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	9.78E-01	6.48E-01	6.50E-01	1.52E+00	7.40E-01	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	3.35E+01	2.16E+00	2.76E+00	8.38E-01	4.10E-01	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	9.09E+00	3.01E+00	3.05E+00	4.33E+00	2.09E+00	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	1.37E+01	6.89E+00	6.93E+00	1.52E+01	1.28E+01	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	6.05E+01	9.77E+00	1.03E+01	1.73E+01	8.57E+00	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	6.63E-01	3.00E-01	3.02E-01	1.18E+00	5.85E-01	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	4.33E+01	2.89E+00	3.64E+00	9.79E-01	4.82E-01	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	3.35E+01	2.16E+00	2.76E+00	8.38E-01	5.55E+00	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	9.78E-01	6.48E-01	6.50E-01	1.52E+00		pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	2.05E+00	4.44E+00	4.44E+00	6.61E+00	3.26E+00	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	1.02E+00	5.61E-01	5.63E-01	5.80E-01	4.33E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

00019

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07182
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	6.62E-01	3.36E-01	3.38E-01	6.99E-01	3.29E-01	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	5.77E-01	2.13E-01	2.15E-01	2.98E-01	1.41E-01	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	1.68E+01	2.90E+00	3.02E+00	1.82E+00	8.30E-01	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	6.62E-01	2.21E+00	2.21E+00	3.81E+00	1.82E+00	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	-1.37E-01	2.87E-01	2.87E-01	1.01E+00	4.90E-01	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	7.48E-01	2.07E-01	2.11E-01	2.95E-01	1.44E-01	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	5.89E-01	1.87E-01	1.90E-01	3.21E-01	1.55E-01	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	5.77E-01	2.13E-01	2.15E-01	2.98E-01	1.21E+00	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	6.62E-01	3.36E-01	3.38E-01	6.99E-01		pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	2.75E-01	9.61E-01	9.62E-01	1.47E+00	7.20E-01	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	5.58E-01	1.98E-01	2.00E-01	2.12E-01	2.46E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Actinium-228	LANL ER-130 Modified	5.87E-01	2.81E-01	2.82E-01	5.88E-01	2.74E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Bismuth-214	LANL ER-130 Modified	5.19E-01	1.70E-01	1.72E-01	2.27E-01	1.32E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Potassium-40	LANL ER-130 Modified	1.70E+01	2.88E+00	3.01E+00	1.64E+00	7.40E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Protactinium-231	LANL ER-130 Modified	-6.39E-02	1.82E+00	1.82E+00	3.49E+00	1.66E+00	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Lead-210	LANL ER-130 Modified	3.74E-01	6.19E-01	6.20E-01	9.79E-01	4.76E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Lead-212	LANL ER-130 Modified	5.51E-01	1.77E-01	1.79E-01	2.60E-01	1.27E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Lead-214	LANL ER-130 Modified	5.54E-01	1.99E-01	2.01E-01	3.78E-01	1.83E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Radium-226	LANL ER-130 Modified	5.19E-01	1.70E-01	1.72E-01	2.27E-01	1.20E+00	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Radium-228	LANL ER-130 Modified	5.87E-01	2.81E-01	2.82E-01	5.88E-01		pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Thorium-234	LANL ER-130 Modified	7.91E-01	8.99E-01	9.00E-01	1.50E+00	7.36E-01	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/21/2015	15-07182	Thallium-208	LANL ER-130 Modified	6.02E-01	2.39E-01	2.41E-01	4.56E-01	2.16E-01	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	8.88E-03	4.58E-02	4.58E-02	1.05E-01	1.93E-02	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	4.99E-02	6.26E-02	6.29E-02	9.31E-02	1.12E-02	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	9.67E-02	7.69E-02	7.78E-02	8.68E-02	1.79E-02	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	1.93E+00	4.16E-01	4.79E-01	5.64E-02	4.99E-03	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	2.99E-02	5.29E-02	5.30E-02	9.50E-02	1.63E-02	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	8.22E-02	6.92E-02	6.99E-02	5.88E-02	3.64E-03	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	1.83E-01	1.21E-01	1.23E-01	7.79E-02	4.82E-03	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	8.95E+00	1.59E+00	1.93E+00	5.64E-02	4.98E-03	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	3.22E-02	5.23E-02	5.25E-02	8.96E-02	1.37E-02	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/13/2015	15-07182	Actinium-227	EML Th-01 Modified	2.71E-02	1.01E-01	1.01E-01	2.20E-01	5.88E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07182
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07182-01	LCS	KNOWN	07/30/15 00:00	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	5.46E+00	1.47E-01				pCi/g
15-07182-01	LCS	SPIKE	07/30/15 00:00	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	5.86E+00	9.29E-01	1.18E+00	5.96E-02	7.35E-02	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	1.07E-01	9.00E-02	9.10E-02	1.17E-01	9.39E-02	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	4.53E-01	1.79E-01	1.88E-01	8.77E-02	7.29E-02	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	3.86E-01	1.50E-01	1.57E-01	6.96E-02	6.99E-02	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	2.16E+02	3.28E+01	4.23E+01	4.80E-02	5.93E-02	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	4.15E-01	1.80E-01	1.87E-01	1.41E-01	1.28E-01	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	5.02E-01	1.84E-01	1.94E-01	7.21E-02	7.57E-02	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	1.80E+01	3.66E+00	4.29E+00	9.55E-02	1.00E-01	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	9.71E+02	1.58E+02	1.98E+02	5.50E-02	6.12E-02	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	6.08E-01	2.12E-01	2.25E-01	6.98E-02	7.77E-02	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/13/2015	15-07182	Thorium-230	EML Th-01 Modified	3.70E-01	2.35E-01	2.40E-01	2.31E-01	2.08E-01	pCi/g
15-07182-01	LCS	KNOWN	07/30/15 00:00	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	5.17E+00	1.86E-01				pCi/g
15-07182-01	LCS	SPIKE	07/30/15 00:00	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	5.71E+00	9.08E-01	1.04E+00	6.81E-02	6.24E-03	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	8.40E-02	8.71E-02	8.74E-02	1.30E-01	3.74E-02	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	1.95E-01	1.14E-01	1.15E-01	9.06E-02	1.13E-02	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	4.72E-02	4.90E-02	4.92E-02	5.14E-02	3.31E-03	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	1.94E+00	4.15E-01	4.49E-01	6.48E-02	8.93E-03	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	3.14E-01	1.55E-01	1.58E-01	1.38E-01	5.37E-02	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	1.85E-01	1.05E-01	1.07E-01	7.20E-02	8.36E-03	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	3.78E-01	1.83E-01	1.86E-01	1.20E-01	2.34E-02	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	6.45E+00	1.18E+00	1.31E+00	6.87E-02	1.09E-02	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	2.84E-01	1.37E-01	1.39E-01	7.65E-02	8.86E-03	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/13/2015	15-07182	Thorium-232	EML Th-01 Modified	2.65E-01	1.82E-01	1.83E-01	1.31E-01	1.21E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-07182
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-07182-01	LCS	KNOWN	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	8.47E+00	3.05E-01				pCi/g
15-07182-01	LCS	SPIKE	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	7.55E+00	1.05E+00	1.18E+00	8.52E-02	1.46E-03	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	2.61E-02	3.99E-02	3.99E-02	5.95E-02	3.87E-03	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	2.34E-01	1.27E-01	1.28E-01	7.05E-02	4.61E-03	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	2.73E-01	1.74E-01	1.75E-01	1.36E-01	1.59E-02	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	2.30E-01	1.34E-01	1.35E-01	1.46E-01	4.22E-02	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	2.24E+00	4.17E-01	4.47E-01	7.93E-02	1.36E-03	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	1.71E-01	1.18E-01	1.19E-01	1.12E-01	1.77E-02	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	1.64E-01	9.85E-02	9.92E-02	8.21E-02	1.41E-03	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	5.03E+00	9.36E-01	1.00E+00	1.62E-01	4.66E-02	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	1.01E-01	7.77E-02	7.80E-02	7.77E-02	1.08E-02	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/14/2015	15-07182	Uranium-234	EML U-02 Modified	7.69E-02	6.83E-02	6.85E-02	7.35E-02	8.57E-03	pCi/g
15-07182-01	LCS	SPIKE	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	2.98E-01	1.49E-01	1.51E-01	1.05E-01	9.54E-04	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	4.98E-02	6.02E-02	6.03E-02	7.34E-02	3.37E-03	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	5.90E-02	7.14E-02	7.16E-02	8.70E-02	4.01E-03	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	1.57E-02	6.55E-02	6.55E-02	1.68E-01	1.49E-02	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	1.36E-01	1.07E-01	1.07E-01	1.15E-01	1.12E-02	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	1.14E-01	9.13E-02	9.17E-02	9.78E-02	8.88E-04	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	1.91E-02	4.58E-02	4.59E-02	9.61E-02	4.42E-03	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	5.07E-02	6.65E-02	6.66E-02	1.01E-01	9.19E-04	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	3.03E-01	1.90E-01	1.91E-01	1.89E-01	3.90E-02	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	1.19E-01	9.51E-02	9.55E-02	1.02E-01	9.26E-04	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/14/2015	15-07182	Uranium-235	EML U-02 Modified	3.16E-02	4.84E-02	4.84E-02	7.21E-02	3.32E-03	pCi/g
15-07182-01	LCS	KNOWN	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	8.25E+00	2.97E-01				pCi/g
15-07182-01	LCS	SPIKE	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	7.04E+00	9.88E-01	1.11E+00	6.77E-02	5.83E-03	pCi/g
15-07182-02	MBL	BLANK	07/30/15 00:00	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	-7.24E-03	2.90E-02	2.90E-02	7.45E-02	8.24E-03	pCi/g
15-07182-03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	2.63E-01	1.36E-01	1.37E-01	8.04E-02	6.95E-03	pCi/g
15-07182-04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	2.03E-01	1.47E-01	1.47E-01	1.08E-01	6.24E-03	pCi/g
15-07182-05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	1.79E-01	1.29E-01	1.29E-01	1.69E-01	6.19E-02	pCi/g
15-07182-06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	2.19E+00	4.12E-01	4.41E-01	1.01E-01	1.88E-02	pCi/g
15-07182-07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	3.07E-01	1.55E-01	1.57E-01	9.75E-02	1.08E-02	pCi/g
15-07182-08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	2.16E-01	1.10E-01	1.11E-01	5.69E-02	3.29E-03	pCi/g
15-07182-09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	4.77E+00	8.99E-01	9.61E-01	1.80E-01	6.31E-02	pCi/g
15-07182-10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	1.76E-01	9.89E-02	9.97E-02	5.72E-02	3.32E-03	pCi/g
15-07182-11	TRG	DUPLICATE 4	07/27/15 10:14	7/30/2015	8/14/2015	15-07182	Uranium-238	EML U-02 Modified	2.88E-01	1.30E-01	1.31E-01	6.67E-02	5.75E-03	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

SECTION V

ANALYTICAL STANDARD

QA/QC REVIEWED
Date 1/16/95 Initials MC

U-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution:	65.2896 g in a 50 ml flame sealed ampoule	
b. Chemical form:	Uranyl Nitrate in H2O	
c. Carrier content:	None	
d. Density:	Approximately 1.3202	g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
3017 N. SAN FERNANDO BLVD.
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EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

		CURRENT DATE	9/2/2014 0:00
SOLUTION REFERENCE #	IPL 479-50	SOLUTION #	U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide	$^{234, 235, 238}U$	Reference Date	1/1/1995 0:00
Certified Activity	8.016E+00 µCi		
Certified Concentration	µCi per gram		

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution

Uranyl nitrate in dilute HNO_3

Dilution Instructions: **Dilution Solvent Used** 1M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 8.0160 µCi **Which Equals** 1.780E+07 **dpm at the date listed above**

And after dilution the activity of this solution is 1.77955E+04 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

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EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 479-50	Solution #	U-8a

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest $^{234, 235, 238}U$
Parent Solution Conc. 1.7796E+04 **dpm/ml**

Reference Date 1/1/1995 0:00

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 4.0000 **ml**
Total Activity: 7.1182E+04 **dpm**
Final Volume: 1000.00 **ml**

Final Activity Concentration: 7.1182E+01 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

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RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.356 grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Method of measurement (see reverse of this certificate)

Accuracy Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity The isotopic composition, expressed as atom per cent at the reference date .

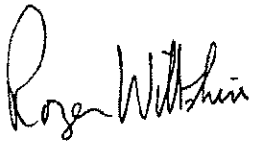
Not measured

Chemical Composition Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory 

Project Ref. AE2315

Roger Wiltshire

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

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AEA Technology is the trading name of AEA Technology plc

EBERLINE SERVICES

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MP-009

Rev.8; 11/01/03
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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 11/11/2014 0:00

SOLUTION REFERENCE # AEA/Amersham 92/232/67 **SOLUTION #** U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide ^{232}U **Reference Date** 3/1/2000 0:00

Certified Activity 9.760E-01 µCi

Certified Concentration µCi per gram

Ampoule /Solution Gross Weight, Grams

Empty Ampoule Weight, Grams

Solution Net Weight, Grams

Total Activity in Ampoule 0.9760 µCi

Chemical Composition of Standard Solution

$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions: **Dilution Solvent Used** 2M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.9760 µCi **Which Equals** 2.167E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.167E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/3/14

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EBERLINE SERVICES

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MP-009

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	11/11/2014 0:00
Solution Reference #	AEA/Amersham 92/232/67	Solution #	U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest: ^{232}U
Parent Solution Conc.: 2.167E+03 dpm/ml

Reference Date: 3/1/2000 0:00

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used: 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000	ml
Total Activity:	2.1670E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 2.1670E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

00029

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405 ± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 μCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)	
b. Chemical form:	Th(NO3)4 in water	
c. Carrier content:	None added	
d. Density:	Approx. 1.21	g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 μCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 9/2/2014 0:00

SOLUTION REFERENCE # IPL 435-104-2 **SOLUTION #** Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide $^{232\&228}Th$ **Reference Date** 11/1/1993 0:00

Certified Activity 9.330E-02 µCi

Certified Concentration µCi per gram

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in H2O

Dilution Instructions: **Dilution Solvent Used** 1% Nitric Acid

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.0933 µCi **Which Equals** 2.071E+05 **dpm at the date listed above**

And after dilution the activity of this solution is 2.071E+02 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

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QUALITY CONTROL PROGRAM
MP-009

Rev.8; 1/10/03
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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	IPL 435-104-2	**Date**	9/2/2014 0:00
		Solution #	Th-8b

Principal Radionuclide	**Half Life, Years**	**Half Life, Days**
$^{228\ \&\ 232}Th$	1.405E+10	5.132E+12

Radionuclide of Interest $^{228\ \&\ 232}Th$
Parent Solution Conc. 2.07E+02 **dpm/ml**

Reference Date 11/1/1993 0:00

Chemical Composition of Standard Solution
$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions:

Dilution Solvent Used 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 500.0000 **ml**
Total Activity: 1.0355E+05 **dpm**
Final Volume: 1000.00 **ml**

Final Activity Concentration: 1.0355E+02 **dpm/ml**

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00032

QA/QC REVIEWED
Date 10/14/91 Initials WT 10/14/91 WT

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 µCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 µCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

ISOTOPE PRODUCTS LABORATORIES
1800 No. Keystone Street.,
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 4/15/2015 0:00

SOLUTION REFERENCE # IPL 388-116 **SOLUTION #** Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide ^{230}Thorium
Certified Activity 1.036E+00 µCi
Certified Concentration µCi per gram

Reference Date 11/1/1991 0:00

Ampoule /Solution Gross	9.2660	Weight, Grams
Empty Ampoule	4.6218	Weight, Grams
Solution Net	4.6442	Weight, Grams
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions:

Dilution Solvent Used 0.1N HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0360 µCi **Which Equals** 2.300E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.300E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

00034

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	4/15/2015 0:00
Solution Reference #	IPL 388-116	Solution #	Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest	^{230}Thorium	Reference Date	11/1/1991 0:00
Parent Solution Conc.	2.30E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000	ml
Total Activity:	2.2999E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 2.2999E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

00035

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity:** (Th-229 only)	1.013 µCi 37.48 kBq

Physical Description:

A.	Mass of solution:	5.0147 g in 5 mL flame-sealed ampoule
B.	Chemical form:	$Th(NO_3)_4$ in 0.1M HNO_3
C.	Carrier content:	10µg Th/mL
D.	Density:	1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.

Peak energy used for integration:	193.5 keV
Branching ratio used:	0.0441 gammas per decay

Uncertainty of Measurement:

A.	Type A (random) uncertainty:	± 0.7 %
B.	Type B (systematic) uncertainty:	± 3.0 %
C.	Uncertainty in aliquot weighing:	± 0.0 %
D.	Total uncertainty at the 99% confidence level:	± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE	9/2/2014 0:00
SOLUTION REFERENCE #	IPL 867-54
SOLUTION #	Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide	^{229}Th	
Certified Activity	1.013E+00	µCi
Certified Concentration		µCi per gram

Reference Date: 1/15/2002 0:00

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1 M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 1.0130 µCi Which Equals 2.249E+06 dpm at the date listed above

And after dilution the activity of this solution is 2.249E+03 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00037

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	IPL 867-54	Date	9/2/2014 0:00
		Solution #	Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide of Interest: ^{229}Th
Parent Solution Conc.: 2.25E+03 dpm/ml

Reference Date: 1/15/2002 0:00

Chemical Composition of Standard Solution

$TH(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2490E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2490E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00038

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404•352•8677
Fax 404•352•2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1402

98503

Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ANA Form005 Rev. —

MGS Certificate Rev 7, 11 September 2014

ACCREDITED SOURCE CALIBRATION LABORATORY — HEALTH PHYSICS SOCIETY — FOUNDED 1956

00039

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07182	UUISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		89.13%	15.60%	100.00%	3.60%	8.47E+00	3.05E-01	7.55E+00	1.18E+00	U-8a	3.52E+01	3.60E+00	5.33E-01
U-238		85.33%	15.75%	100.00%	3.60%	8.25E+00	2.97E-01	7.04E+00	1.11E+00	U-8a	3.44E+01	3.60E+00	5.33E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	0.35	15.37	2.73E-01	1.75E-01	2.34E-01	1.28E-01
U-238	0.59	26.12	2.03E-01	1.47E-01	2.63E-01	1.37E-01
U-235	0.87	115.89	1.57E-02	6.55E-02	5.90E-02	7.16E-02

QC Summary

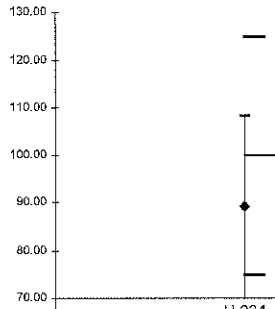
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.89	OK				NA	OK
0.85	OK				NA	OK
	OK				NA	OK

00041

Version

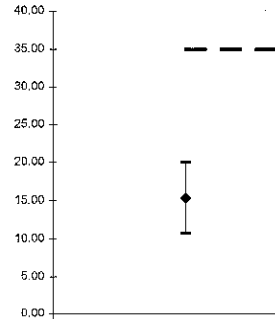
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07182	UUISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



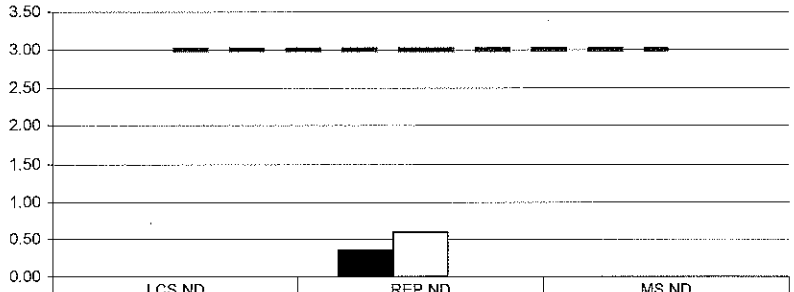
	U-234	U-238
Lower Error	69.93	65.98
Upper Error	108.32	104.68
%R	89.13	85.33
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	19.97	34.09	222.25
Upper Error	10.77	18.15	9.52
RPD	15.37	26.12	115.89
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	0.35	0.00
U-238	0.00	0.59	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

100042

Version

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07182	ThISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		108.70%	18.54%	100.00%	3.60%	5.17E+00	1.86E-01	5.62E+00	1.04E+00	Th-8b	1.04E+02	3.60E+00	1.11E-01
TH-230		107.44%	20.09%	100.00%	2.70%	5.46E+00	1.47E-01	5.86E+00	1.18E+00	Th-1b	2.35E+01	2.70E+00	5.15E-01
TH-232		110.45%	18.19%	100.00%	3.60%	5.17E+00	1.86E-01	5.71E+00	1.04E+00	Th-8b	1.04E+02	3.60E+00	1.11E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	0.24	13.29	1.05E-01	8.16E-02	1.20E-01	9.09E-02
TH-230	0.54	15.93	3.86E-01	1.57E-01	4.53E-01	1.88E-01
TH-232	2.31	121.93	4.72E-02	4.92E-02	1.95E-01	1.15E-01

QC Summary

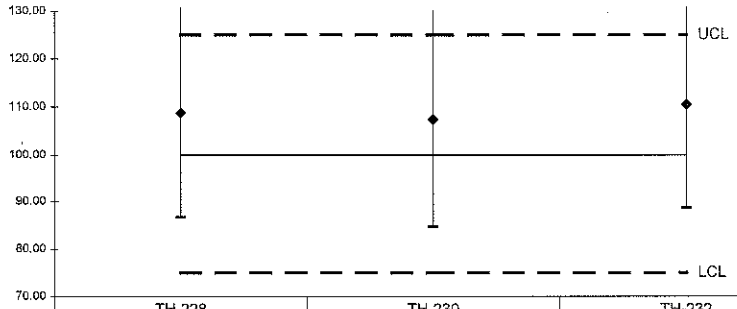
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.09	OK				NA	OK
1.07	OK				NA	OK
1.10	OK				NA	OK

0043

Version

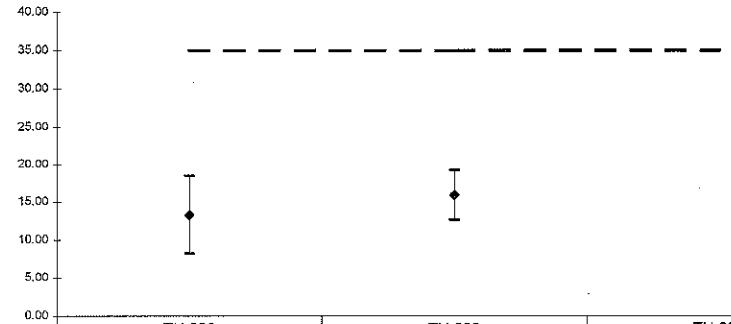
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07182	ThISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



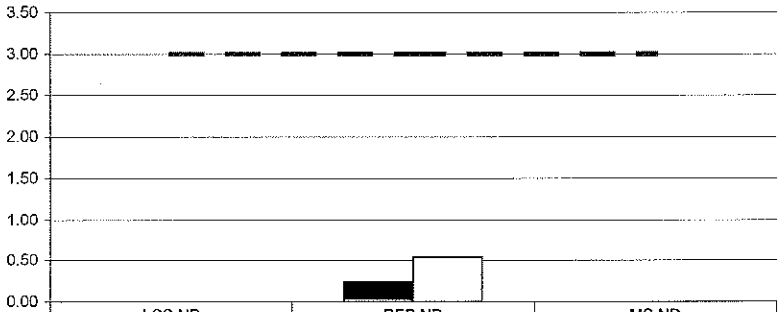
	TH-228	TH-230	TH-232
Lower Error	86.56	84.65	88.66
Upper Error	130.83	130.23	132.24
%R	108.70	107.44	110.45
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	18.41	19.21	163.32
Upper Error	8.18	12.66	80.54
RPD	13.29	15.93	121.93
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	0.24	0.00
TH-230	0.00	0.54	0.00
UCL	3	3	3

No Matrix Spike

00044

Version

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07182	Gamma	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		102.40%	7.77%	100.00%	4.00%	1.37E+02	5.48E+00	1.40E+02	1.09E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		105.86%	10.34%	100.00%	4.00%	8.69E+01	3.48E+00	9.20E+01	9.51E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
BI-214	0.55	6.73	1.06E+00	1.81E-01	9.95E-01	1.66E-01
K-40	0.26	2.63	1.50E+01	2.13E+00	1.54E+01	2.11E+00
PB-214	0.41	4.36	1.05E+00	1.50E-01	1.00E+00	1.52E-01

QC Summary

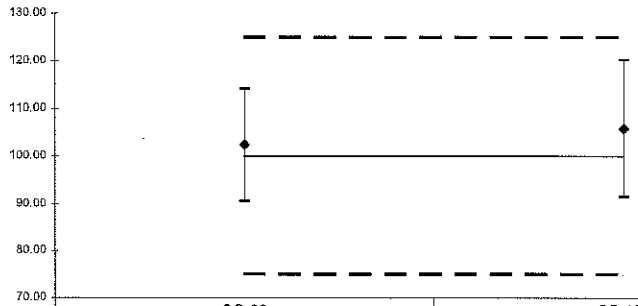
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.02	OK		<CS-137	BI-214>	NA	
1.06	OK		<CO-60	K-40>	NA	OK
				PB-214>	NA	OK

00043

Version

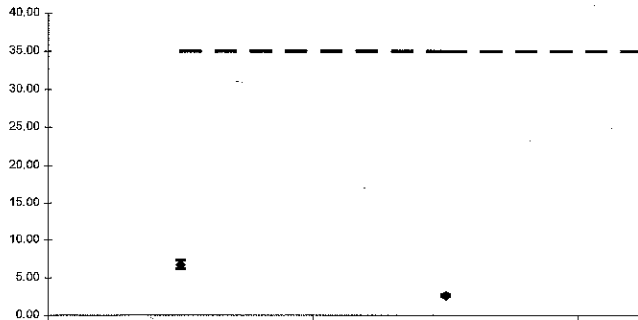
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-07182	Gamma	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



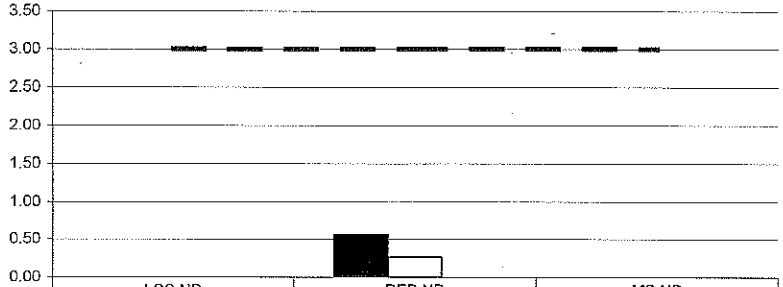
	CO-60	CS-137
Lower Error	90.63	91.52
Upper Error	114.17	120.21
%R	102.40	105.86
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	Bi-214	K-40	Pb-214
Lower Error	7.30	2.81	4.68
Upper Error	6.16	2.45	4.04
RPD	6.73	2.63	4.36
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.55	0.00
CS-137	0.00	0.26	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

00049

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07182
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/10/15 08:51	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07182
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/10/15 08:51	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	08/13/15 18:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

8/13/15

00050

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07182
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/10/15 08:51	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	08/13/15 18:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
3	08/14/15 05:00	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

8/14/15

00051

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-07182	
Analysis Code	Run
UUISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	8/10/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	8/10/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	8/10/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	8/13/2015
016638S	HCl - HF	6.5N - 0.04N	JDEMELAS	8/13/2015
016677S	HCl - NH4I	8N - 0.1M	JDEMELAS	8/13/2015
016546D01	Hydrochloric Acid	0.5N	JDEMELAS	8/13/2015
016615S	Hydrochloric Acid	6.5N	JDEMELAS	8/13/2015
016663S	Hydrochloric Acid	8N	JDEMELAS	8/13/2015
016232P	Hydrochloric Acid	Reagent Grade	JDEMELAS	8/13/2015
016654S	Carbon substrate	Solution	TSMITH	8/14/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	8/14/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	8/14/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	8/14/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	8/14/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/12	1508003A(1-8)	USA	0877	2hr50	Th Iso	—
8/12/15	1508003A(9-20)	USA	1135	2hr50	Iso-Th	KB
8/13	Daily Pulse	LAB	0521	"	NA	—
8/13	1507160A(8-14)	~~Analysts~~ Analysts	0824	2hr50	Am241	—
8/13	1508003A(1-19)	USA	0825	2hr50	UU Iso	—
8/13/15	1508003A(20)	USA	1121	2hr50	Iso-UU	KB
8/13/15	1508006A(1-5)	UCOR	1122	2hr50	Iso-Th	KB
8/13/15	1507182A(1-11)	AMO ENV.	1123	2hr50	Iso-Th	KB
8/13/15	1507080B(1-4)	ERA	1124	2hr50	Rak	KB
8/14	Daily Pulse	LAB	0500	"	NA	—
8/14	SECCAL(37-48)	LAB	0516	2hr50	NA	—
8/14	SECCAL(48-60)	LAB	0750	2hr50	NA	—
8/14	1508006A(3-5)	UCOR	0822	2hr50	Am243	—
8/14	1508004A(1-12)	USA	0822	2hr50	UU Iso	—
8/14/15	1508004A(12-20)	USA	1024	2hr50	Iso-UU	KB
8/14/15	1508020A(1-3)	UCOR	1025	2hr50	Np	KB
8/14/15	1508020A(4)	UCOR	1119	2hr50	Np	KB
8/14/15	1508002A(1-11)	AMO ENV.	1120	2hr50	Iso-Th	KB
8/14/15	1508006A(1-2)	UCOR	1121	2hr50	Th229	KB
8/14/15	1507184A(1-8)	Test America	1719	2hr50	Rak	KB
8/14/15	1508020A(1-4)	UCOR	1719	2hr50	Rak	KB
8/14/15	1508004A(3-5)	UCOR	1415	2hr50	Th229	KB
8/14/15	1507182A(1-11)	AMO ENV.	1418	2hr50	UU	KB

ISO TH NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07182
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/10/15 08:51	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS

JWolfe
8/10/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07182
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/10/15 08:51	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	08/12/15 14:32	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

8/12/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-07182
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/10/15 08:51	PREP	JWOLFE	DIGESTED WITH HNO3, HCL AND H2SO4- CENTRIFUGED AND DILUTED- ALIQUOTED FROM DILUTIONS AND ADDED SPIKES AND TRACERS- DRIED SAMPLES DOWN AND SUBMITTED SAMPLES TO SEPARATIONS
2	08/12/15 14:32	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
3	08/13/15 05:13	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Thorium)

8-13-15

00057

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-07182	
Analysis Code	Run
ThISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016232P	Hydrochloric Acid	Reagent Grade	JWOLFE	8/10/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	8/10/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	8/10/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	8/12/2015
016232P	Hydrochloric Acid	Reagent Grade	JDEMELAS	8/12/2015
016403P	Nitric Acid	Reagent Grade	JDEMELAS	8/12/2015
016663S	Hydrochloric Acid	8N	JDEMELAS	8/12/2015
016660S	Nitric Acid	8N	JDEMELAS	8/12/2015
016557S	Cerrium Carrier	0.1mg/ml	TSMITH	8/13/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	8/13/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	8/13/2015
016654S	Carbon substrate	Solution	TSMITH	8/13/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/12	1508003A(1-8)	USA	0377	2hr50	TLIso	—
8/12/15	1508003A(9-20)	USA	1135	2hr50	ISO-Th	KB
8/13	Daily Pulse	LAB	0521	"	NA	—
8/13	1507160A(8-14)	~~Analysts~~ Analysts	0824	2hr50	AM241	—
8/13	1508003A(1-19)	USA	0825	2hr50	ULIso	—
8/13/15	1508003A(20)	USA	1121	2hr50	ISO-UU	KB
8/13/15	1508006A(1-5)	UCOR	1122	2hr50	ISO-Th	KB
8/13/15	1507182A(1-11)	AMO ENV.	1123	2hr50	ISO-Th	KB
8/13/15	1507080B(1-4)	ERA	1124	2hr50	Rak	KB

GAMMA NOTES

DATE	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/17	1508030-01	STOPNO	1700	15	Ba	C
8/17	1508044-01	uCon	1716	15	Ba	C
8/17	1507157-01	Smith	1334	15	Ba	C
8/18	CAF14	LAB	0521	15	✓	C
8/18	Daily QC	LAB	0542	15	✓	C
8/18	150715607	Smith	0605	ZL	✓	C
8/18	150715604	Smith	~~0607~~ 0610	ZL	✓	C
8/18	150715-02	Smith	0817	ZL	✓	—
8/18	150715507	Smith	0522	ZL	✓	—
8/18	150715508	Smith	1024	ZL	✓	—
8/18	150715-13	Smith	1140	ZL	✓	—
8/18	1508032-01	TestAmerica	1125	15	Ba	—
8/18/16	1507155-01	Smith, Stag	1241	30mins	✓	KCB
8/18/16	1508069-01	CB	1312	30mins	✓	KCB
8/18/16	1508069-02	CB	1343	1hr	✓	KCB
8/18/16	1507157-02	Smith, Stag	1444	1hr	✓	KCB
8/18/16	1507158-02	Smith, Stag	1545	1hr	✓	KCB
8/19	~~CAF~~ CAF-14	LAB	0512	15	✓	C
8/19	Daily QC	LAB	0540	15	✓	C
8/19	1508054-01	STOPNO	0558	15	Ba	—
8/19	150715807	Smith	0620	ZL	✓	C
8/19	150715804	Smith	0700	ZL	✓	C
8/19	150715-12	Smith	0825	ZL	✓	—
8/19	150715706	Smith	0839	ZL	✓	—
8/19	150715709	Smith	1039	ZL	✓	C
8/19	150715713	Smith	1141	ZL	✓	C
8/19/16	1508080-03	Energy Transfer	1251	1hr	✓	KCB
8/19/16	1508080-04	Energy Transfer	1352	1hr	✓	KCB
8/20	CAF14	LAB	0520	15	✓	C
8/20	Daily QC	LAB	0550	15	✓	C
8/20	150716201	Apro	0727	30	✓	C

GE 1

DATE	SAmple #	Client	Load Time	CT. Time	Analysis	Tech
8/20/15	1508064-04	MPA	1012	15 mins	Ba	KB
8/20/15	1508050-02	UCOR	1027	15 mins	Ba	KB
8/20/15	1508050-04	UCOR	1043	15 mins	Ba	KB
8/20	1508050-11	UCOR	1104	15	Ba	—
8/20	1508063-04	MPA	1119	15	Ba	—
8/20	1508046-01	Acautest	1136	15	Ba	[illegible]
8/20	1508046-06	Acautest	1153	15	Ba	[illegible]
8/20/15	1508086-03	UCOR	1410	4 hr	γ	KB
8/20/15	1508086-04	UCOR	1810	4 hr	γ	KB
8/21	GA714	LAB	0526	15	γ	[illegible]
8/21	Daily	LAB	0551	15	γ	[illegible]
8/21	1507182-03	AMO	0611	1h	γ	[illegible]
8/21	1507182-04	AMO	0716	1h	γ	[illegible]
8/21	1507182-07	AMO	0819	1h	γ	[illegible]

GE 2

DATE	SAMPLE #	Client	Load Time	CT. Time	Analysis	Tech
8/17/15	07170-02	Energy Transfer	1136	15 mins	Ba	KB
8/17/15	1508018-02	Accutest	1152	15 min	Ba	KB
8/17/15	1508025-02	Test America	1211	15 mins	Ba	KB
8/17/15	1508021-01	~~TEC~~ Accutest KB	1228	15 mins	Ba	KB
8/17/15	1508028-02	TEC	1244	15 mins	Ba	KB
8/17	~~1508~~ 1508 030-02	STOEND	1300	15	Ba	C
8/17	1508 044-02	UCON	1316	15	Ba	C
8/17	1507157-02	Smith	1334	15	Ba	C
8/18	GAS 1401	LAB	0511	15	✓	C
8/18	Daily R	LAB	0542	15	✓	
8/18	1507156-05	Smith	0605	1L	✓	—
8/18	1507156-07	Smith	0713	1L	✓	—
8/18	1507156-10	Smith	0817	1L	✓	—
8/18	1507155-06	Smith	0922	1L	✓	—
8/18	1507155-10	Smith	1024	1L	✓	C
8/18	1507155-14	Smith	1140	1L	✓	—
8/18	1508032-02	Test America	1125	15	Ba	—
8/18/15	1507155-02	Smith, Stag	1241	1 hr	✓	KB
8/18/15	1507157-01	Smith, Stag	1347	30 mins	✓	KB
8/18/15	1507158-01	Smith, Stag.	1418	30 mins	✓	KB
8/19	GAS 1401	LAB	0513	15	✓	C
8/19	Daily R	LAB	0540	15	✓	C
8/19	Daily R	LAB	0557	15	✓	—
8/19	1507158-05	Smith	0620	1L	✓	—
8/19	1507158-08	Smith	0731	1L	✓	—
8/19	1507158-12	Smith	0835	1L	✓	—
8/19	1507157-07	Smith	0939	1L	✓	—
8/19	1507157-10	Smith	1040	1L	✓	C
8/19	1507157-14	Smith	1141	1L	✓	C
8/19/15	1508081-03	Energy Transfer	1248	2 hr	✓	KB
8/19/15	1508081-04	Energy Transfer	1247	2 hr	✓	KB
8/20	GAS 1401	LAB	0520	15	✓	C
8/20	Daily R	LAB	0550	15	✓	C
8/20	1507185-02	Atmo	0737	1L	✓	C

GE 2

DATE	SAMPLE #	Client	Load Time	CT. Time	Analysis	Tech
8/20	1508077-02	UCOR	0845	2h	✓	—
8/20/15	1508050-10	UCOR	1045	15 min	Ba	KB
8/20/15	1508067-01	MPA	1104	15 min	Ba	KB
8/20	1508067-06	MPA	1120	15 —	Ba	—
8/20	1508046-02	Accutest	1136	15	Ba	—
8/20	1508072-07	UCOR	1153	2h	✓	—
8/20/15	1508072-04	UCOR	1306	2 hr	✓	KB
8/20/15	1508091-03	USA	1557	1 hr	✓	KB
8/20/15	1508091-04	USA	1657	1 hr	✓	KB
8/20/15	1508079-01	Solutient Tech	1758	30 min	✓	KB
8/20/15	1508072-02	UCOR	1828	2 hr	✓	KB
8/21	CTS-1401	UTS	0526	15	✓	—
8/21	Daily B	UTS	0551	15	✓	—
8/21	1507182-05	AMO	0611	1h	✓	—
8/21	1507182-06	AMO	0716	1h	✓	—
8/21	1507182-09	AMO	0819	1h	✓	—

GE 4

DATE	SAMPLE #	Client	Load Time	CT. Time	Analysis	Tech
8/20/15	1508086-02	UCOR	1911	6 hrs	✓	KB
8/21	GAW14	LAB	0526	15	✓	[illegible]
8/21	[illegible]	LAB	0551	15	✓	—
8/21	GAW14	~~LAB~~	0609	15	✓	—
8/21	1507182-08	AMO	0627	7h	✓	—
8/21	1507182-10	AMO	0728	7h	✓	—
8/21	1507182-11	AMO	0874	7h	✓	—

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

15-07182
UUISO
Run 1

Work Order	15-07182
Analysis Code	UUISO
Run	1
Date Received	7/30/2015
Lab Deadline	8/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.68
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/30/15 00:00	1.0000E+00
02	MBL	BLANK		07/30/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-5 063-064	40	07/20/15 14:28	1.0230E+00
04	DO	FEEBRIS1D-5 063-064	40	07/20/15 14:28	1.0230E+00
05	TRG	FEEBRIS1D-5 051-052	44	07/20/15 14:04	1.0220E+00
06	TRG	FEEBRIS1D-6 080-081	35	07/21/15 09:53	1.0780E+00
07	TRG	FEEBRIS1D-6 085-086	38	07/21/15 09:58	1.0420E+00
08	TRG	FEEBRIS1D-7 093-094	31	07/24/15 14:50	1.1240E+00
09	TRG	FEEBRIS1D-16 050-051	50	07/27/15 09:44	1.1960E+00
10	TRG	FEEBRIS1D-16 059-061	36	07/27/15 10:14	1.0340E+00
11	TRG	DUPLICATE 4	41	07/27/15 10:14	1.0820E+00

0067 29000

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6574	12.3		0.00								
02	MBL	0.6629	12.4		0.00								
03	DUP	0.6625	12.4		0.00								
04	DO	0.6575	12.3		0.00								
05	TRG	0.6642	12.4		0.00								
06	TRG	0.6624	12.4		0.00								
07	TRG	0.6644	12.4		0.00								
08	TRG	0.6637	12.4		0.00								
09	TRG	0.6631	12.4		0.00								
10	TRG	0.6628	12.4		0.00								
11	TRG	0.6695	12.5		0.00								

89000

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			08/10/15 07:31	TSMITH				
02	MBL			08/10/15 07:31	TSMITH				
03	DUP			08/10/15 07:31	TSMITH				
04	DO	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				
05	TRG	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				
06	TRG	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				
07	TRG	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				
08	TRG	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				
09	TRG	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				
10	TRG	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				
11	TRG	07/31/15 07:20	KSALLINGS	08/10/15 07:31	TSMITH				

69000

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	7.55E+00	1.05E+00	8.52E-02	8.47E+00	89.13	OK		OK	
02	U-234	MBL	BLANK	pCi/g	2.61E-02	3.99E-02	5.95E-02					OK	OK
03	U-234	DUP	FEEBRIS1D-5 063-064	pCi/g	2.34E-01	1.27E-01	7.05E-02				NA	OK	
04	U-234	DO	FEEBRIS1D-5 063-064	pCi/g	2.73E-01	1.74E-01	1.36E-01					OK	
05	U-234	TRG	FEEBRIS1D-5 051-052	pCi/g	2.30E-01	1.34E-01	1.46E-01					OK	
06	U-234	TRG	FEEBRIS1D-6 080-081	pCi/g	2.24E+00	4.17E-01	7.93E-02					OK	
07	U-234	TRG	FEEBRIS1D-6 085-086	pCi/g	1.71E-01	1.18E-01	1.12E-01					OK	
08	U-234	TRG	FEEBRIS1D-7 093-094	pCi/g	1.64E-01	9.85E-02	8.21E-02					OK	
09	U-234	TRG	FEEBRIS1D-16 050-051	pCi/g	5.03E+00	9.36E-01	1.62E-01					OK	
10	U-234	TRG	FEEBRIS1D-16 059-061	pCi/g	1.01E-01	7.77E-02	7.77E-02					OK	
11	U-234	TRG	DUPLICATE 4	pCi/g	7.69E-02	6.83E-02	7.35E-02					OK	

02000

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	07/30/15 00:00	1.00E+00	109.33	0.00	0.00			
02	U-234	MBL	07/30/15 00:00	1.00E+00	115.34	0.00	0.00			
03	U-234	DUP	07/20/15 14:28	1.02E+00	79.43	0.00	0.00			
04	U-234	DO	07/20/15 14:28	1.02E+00	53.83	0.00	0.00			
05	U-234	TRG	07/20/15 14:04	1.02E+00	92.26	0.00	0.00			
06	U-234	TRG	07/21/15 09:53	1.08E+00	107.18	0.00	0.00			
07	U-234	TRG	07/21/15 09:58	1.04E+00	68.30	0.00	0.00			
08	U-234	TRG	07/24/15 14:50	1.12E+00	93.90	0.00	0.00			
09	U-234	TRG	07/27/15 09:44	1.20E+00	61.78	0.00	0.00			
10	U-234	TRG	07/27/15 10:14	1.03E+00	112.95	0.00	0.00			
11	U-234	TRG	07/27/15 10:14	1.08E+00	103.00	0.00	0.00			

T2000 0071

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	08/14/15 14:17		A_Spec	Alpha_037	170	5.31 E+02	0.00 E+00	17.1
02	U-234	MBL	08/14/15 14:17		A_Spec	Alpha_038	170	1.83 E+00	1.00 E-03	16.2
03	U-234	DUP	08/14/15 14:17		A_Spec	Alpha_039	170	1.38 E+01	1.00 E-03	19.3
04	U-234	DO	08/14/15 14:17		A_Spec	Alpha_040	170	1.05 E+01	3.00 E-03	18.6
05	U-234	TRG	08/14/15 14:17		A_Spec	Alpha_041	170	1.53 E+01	1.59 E-02	18.7
06	U-234	TRG	08/14/15 14:17		A_Spec	Alpha_042	170	1.69 E+02	0.00 E+00	17.4
07	U-234	TRG	08/14/15 14:17		A_Spec	Alpha_043	170	9.15 E+00	5.00 E-03	20
08	U-234	TRG	08/14/15 14:17		A_Spec	Alpha_044	170	1.20 E+01	0.00 E+00	18.4
09	U-234	TRG	08/14/15 14:17		A_Spec	Alpha_046	170	2.49 E+02	1.30 E-02	17.8
10	U-234	TRG	08/14/15 14:17		A_Spec	Alpha_047	170	7.32 E+00	4.00 E-03	16.5
11	U-234	TRG	08/14/15 14:17		A_Spec	Alpha_048	170	5.49 E+00	3.00 E-03	17

24000

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	7.04E+00	9.88E-01	6.77E-02	8.25E+00	85.33	OK		OK	
02	U-238	MBL	BLANK	pCi/g	-7.24E-03	2.90E-02	7.45E-02					OK	OK
03	U-238	DUP	FEEBRIS1D-5 063-064	pCi/g	2.63E-01	1.36E-01	8.04E-02				NA	OK	
04	U-238	DO	FEEBRIS1D-5 063-064	pCi/g	2.03E-01	1.47E-01	1.08E-01					OK	
05	U-238	TRG	FEEBRIS1D-5 051-052	pCi/g	1.79E-01	1.29E-01	1.69E-01					OK	
06	U-238	TRG	FEEBRIS1D-6 080-081	pCi/g	2.19E+00	4.12E-01	1.01E-01					OK	
07	U-238	TRG	FEEBRIS1D-6 085-086	pCi/g	3.07E-01	1.55E-01	9.75E-02					OK	
08	U-238	TRG	FEEBRIS1D-7 093-094	pCi/g	2.16E-01	1.10E-01	5.69E-02					OK	
09	U-238	TRG	FEEBRIS1D-16 050-051	pCi/g	4.77E+00	8.99E-01	1.80E-01					OK	
10	U-238	TRG	FEEBRIS1D-16 059-061	pCi/g	1.76E-01	9.89E-02	5.72E-02					OK	
11	U-238	TRG	DUPLICATE 4	pCi/g	2.88E-01	1.30E-01	6.67E-02					OK	

E2000 0073

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-UUISO-1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	07/30/15 00:00	1.00E+00	109.33	0.00	0.00			
02	U-238	MBL	07/30/15 00:00	1.00E+00	115.34	0.00	0.00			
03	U-238	DUP	07/20/15 14:28	1.02E+00	79.43	0.00	0.00			
04	U-238	DO	07/20/15 14:28	1.02E+00	53.83	0.00	0.00			
05	U-238	TRG	07/20/15 14:04	1.02E+00	92.26	0.00	0.00			
06	U-238	TRG	07/21/15 09:53	1.08E+00	107.18	0.00	0.00			
07	U-238	TRG	07/21/15 09:58	1.04E+00	68.30	0.00	0.00			
08	U-238	TRG	07/24/15 14:50	1.12E+00	93.90	0.00	0.00			
09	U-238	TRG	07/27/15 09:44	1.20E+00	61.78	0.00	0.00			
10	U-238	TRG	07/27/15 10:14	1.03E+00	112.95	0.00	0.00			
11	U-238	TRG	07/27/15 10:14	1.08E+00	103.00	0.00	0.00			

Run: 1
Analysis Code: UUISO
Eberline Services Work Order: 15-07182
Client: AMO Environmental Decisions

00074

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	08/14/15 14:17		A_Spec	Alpha_037	170	4.98 E+02	2.00 E-03	17.1
02	U-238	MBL	08/14/15 14:17		A_Spec	Alpha_038	170	-5.10 E-01	3.00 E-03	16.2
03	U-238	DUP	08/14/15 14:17		A_Spec	Alpha_039	170	1.57 E+01	2.00 E-03	19.3
04	U-238	DO	08/14/15 14:17		A_Spec	Alpha_040	170	7.83 E+00	1.00 E-03	18.6
05	U-238	TRG	08/14/15 14:17		A_Spec	Alpha_041	170	1.19 E+01	2.38 E-02	18.7
06	U-238	TRG	08/14/15 14:17		A_Spec	Alpha_042	170	1.67 E+02	7.95 E-03	17.4
07	U-238	TRG	08/14/15 14:17		A_Spec	Alpha_043	170	1.65 E+01	3.00 E-03	20
08	U-238	TRG	08/14/15 14:17		A_Spec	Alpha_044	170	1.58 E+01	1.00 E-03	18.4
09	U-238	TRG	08/14/15 14:17		A_Spec	Alpha_046	170	2.37 E+02	1.80 E-02	17.8
10	U-238	TRG	08/14/15 14:17		A_Spec	Alpha_047	170	1.28 E+01	1.00 E-03	16.5
11	U-238	TRG	08/14/15 14:17		A_Spec	Alpha_048	170	2.07 E+01	2.00 E-03	17

S2000

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	2.98E-01	1.49E-01	1.05E-01					OK	
02	U-235	MBL	BLANK	pCi/g	4.98E-02	6.02E-02	7.34E-02					OK	OK
03	U-235	DUP	FEEBRIS1D-5 063-064	pCi/g	5.90E-02	7.14E-02	8.70E-02				NA	OK	
04	U-235	DO	FEEBRIS1D-5 063-064	pCi/g	1.57E-02	6.55E-02	1.68E-01					OK	
05	U-235	TRG	FEEBRIS1D-5 051-052	pCi/g	1.36E-01	1.07E-01	1.15E-01					OK	
06	U-235	TRG	FEEBRIS1D-6 080-081	pCi/g	1.14E-01	9.13E-02	9.78E-02					OK	
07	U-235	TRG	FEEBRIS1D-6 085-086	pCi/g	1.91E-02	4.58E-02	9.61E-02					OK	
08	U-235	TRG	FEEBRIS1D-7 093-094	pCi/g	5.07E-02	6.65E-02	1.01E-01					OK	
09	U-235	TRG	FEEBRIS1D-16 050-051	pCi/g	3.03E-01	1.90E-01	1.89E-01					OK	
10	U-235	TRG	FEEBRIS1D-16 059-061	pCi/g	1.19E-01	9.51E-02	1.02E-01					OK	
11	U-235	TRG	DUPLICATE 4	pCi/g	3.16E-02	4.84E-02	7.21E-02					OK	

9200

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07182

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	07/30/15 00:00	1.00E+00	109.33	0.00	0.00			
02	U-235	MBL	07/30/15 00:00	1.00E+00	115.34	0.00	0.00			
03	U-235	DUP	07/20/15 14:28	1.02E+00	79.43	0.00	0.00			
04	U-235	DO	07/20/15 14:28	1.02E+00	53.83	0.00	0.00			
05	U-235	TRG	07/20/15 14:04	1.02E+00	92.26	0.00	0.00			
06	U-235	TRG	07/21/15 09:53	1.08E+00	107.18	0.00	0.00			
07	U-235	TRG	07/21/15 09:58	1.04E+00	68.30	0.00	0.00			
08	U-235	TRG	07/24/15 14:50	1.12E+00	93.90	0.00	0.00			
09	U-235	TRG	07/27/15 09:44	1.20E+00	61.78	0.00	0.00			
10	U-235	TRG	07/27/15 10:14	1.03E+00	112.95	0.00	0.00			
11	U-235	TRG	07/27/15 10:14	1.08E+00	103.00	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07182

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	08/14/15 14:17		A_Spec	Alpha_037	170	1.70 E+01	0.00 E+00	17.1
02	U-235	MBL	08/14/15 14:17		A_Spec	Alpha_038	170	2.83 E+00	1.00 E-03	16.2
03	U-235	DUP	08/14/15 14:17		A_Spec	Alpha_039	170	2.83 E+00	1.00 E-03	19.3
04	U-235	DO	08/14/15 14:17		A_Spec	Alpha_040	170	4.90 E-01	3.00 E-03	18.6
05	U-235	TRG	08/14/15 14:17		A_Spec	Alpha_041	170	7.32 E+00	3.97 E-03	18.7
06	U-235	TRG	08/14/15 14:17		A_Spec	Alpha_042	170	7.00 E+00	0.00 E+00	17.4
07	U-235	TRG	08/14/15 14:17		A_Spec	Alpha_043	170	8.30 E-01	1.00 E-03	20
08	U-235	TRG	08/14/15 14:17		A_Spec	Alpha_044	170	3.00 E+00	0.00 E+00	18.4
09	U-235	TRG	08/14/15 14:17		A_Spec	Alpha_046	170	1.21 E+01	1.10 E-02	17.8
10	U-235	TRG	08/14/15 14:17		A_Spec	Alpha_047	170	7.00 E+00	0.00 E+00	16.5
11	U-235	TRG	08/14/15 14:17		A_Spec	Alpha_048	170	1.83 E+00	1.00 E-03	17

84000

Count Room Report
Client: AMO Environmental Decisio

15-07182-UUISO-1 (pCi/g) in SO
Tracer ID: U-10a

Printed: 8/14/2015 5:03 AM

37-45

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/30/15 00:00	1.0000	0.6574	12.2802		0.00		
02	MBL	BLANK	07/30/15 00:00	1.0000	0.6629	12.3830		0.00		
03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	1.0230	0.6625	12.3755		0.00		
04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	1.0230	0.6575	12.2821		0.00		
05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	1.0220	0.6642	12.4073		0.00		
06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	1.0780	0.6624	12.3736		0.00		
07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	1.0420	0.6644	12.4110		0.00		
08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	1.1240	0.6637	12.3979		0.00		
09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	1.1960	0.6631	12.3867		0.00		
10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	1.0340	0.6628	12.3811		0.00		
11	TRG	DUPLICATE 4	07/27/15 10:14	1.0820	0.6695	12.5053		0.00		

67000

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-07182	1	UUISO	8/10/2015 7:21	TSMITH		

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
U-234	U-8a	35.240	8/10/2015	0.500	0.5334				8.47	0.305	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	8/10/2015	0.500	0.5334				8.25	0.297	0.00	0.000	0.00	0.000	0.00	0.000
Tc-99 MS	Tc-2a	22043.636	7/5/2014	0.1												

Tracers

fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	U-232	U-10a	18.680	8/10/2015	0.6574	0.6500
02	U-232	U-10a	18.680	8/10/2015	0.6629	0.6500
03	U-232	U-10a	18.680	8/10/2015	0.6625	0.6500
04	U-232	U-10a	18.680	8/10/2015	0.6575	0.6500
05	U-232	U-10a	18.680	8/10/2015	0.6642	0.6500
06	U-232	U-10a	18.680	8/10/2015	0.6624	0.6500
07	U-232	U-10a	18.680	8/10/2015	0.6644	0.6500
08	U-232	U-10a	18.680	8/10/2015	0.6637	0.6500
09	U-232	U-10a	18.680	8/10/2015	0.6631	0.6500
10	U-232	U-10a	18.680	8/10/2015	0.6628	0.6500
11	U-232	U-10a	18.680	8/10/2015	0.6695	0.6500

Balance Printer Tapes

Tracer	LCS

Matrix Spike

08000

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/10/2015 8:46 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07182	1	UUISO	grams	8/21/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-5 063-064	DUP		1	9.78	1.02E-01	1.0000E+01	1.0230E+00				
04	FEEBRIS1D-5 063-064	DO		1	9.78	1.02E-01	1.0000E+01	1.0230E+00				
05	FEEBRIS1D-5 051-052	TRG		1	19.57	5.11E-02	2.0000E+01	1.0220E+00				
06	FEEBRIS1D-6 080-081	TRG		1	18.55	5.39E-02	2.0000E+01	1.0780E+00				
07	FEEBRIS1D-6 085-086	TRG		1	19.19	5.21E-02	2.0000E+01	1.0420E+00				
08	FEEBRIS1D-7 093-094	TRG		1	17.79	5.62E-02	2.0000E+01	1.1240E+00				
09	FEEBRIS1D-16 050-051	TRG		1	16.72	5.98E-02	2.0000E+01	1.1960E+00				
10	FEEBRIS1D-16 059-061	TRG		1	19.34	5.17E-02	2.0000E+01	1.0340E+00				
11	DUPLICATE 4	TRG		1	18.48	5.41E-02	2.0000E+01	1.0820E+00				

Comments	

18000

Technician: JWolfe Date: 8/10/15

EBERLINE SERVICES

	Internal Work Order	15-07182
	Fraction	**> 03 <**
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10.23**	ml	from the original sample and diluted it to	**100**	ml	0.1023
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1023**
Dilution Factor	**9.775171065**

28000

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES	Internal Work Order	15-07182
	Fraction	> 04 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10.23**	ml	from the original sample and diluted it to	**100**	ml	0.1023
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	0.1023
Dilution Factor	9.775171065

Diluted by: JW Date: 8/10/15 JW 8/10/15

00083

EBERLINE SERVICES	Internal Work Order	15-07182
	Fraction	> 05 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.11**	ml	from the original sample and diluted it to	**100**	ml	0.0511
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	0.0511
Dilution Factor	19.56947162

00084

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES	Internal Work Order	15-07182
	Fraction	> 06 <
Dilution Worksheet	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.39**	ml	from the original sample and diluted it to	**100**	ml	0.0539
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0539**
Dilution Factor	**18.5528757**

Diluted by: JW Date: 8/10/15

00085

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07182
	Fraction	**> 07 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.21**	ml	from the original sample and diluted it to	**100**	ml	0.0521
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0521**
Dilution Factor	**19.19385797**

98000

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07182
	Fraction	**> 08 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.62**	ml	from the original sample and diluted it to	**100**	ml	0.0562
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0562**
Dilution Factor	**17.79359431**

00087

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07182
	Fraction	**> 09 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.98**	ml	from the original sample and diluted it to	**100**	ml	0.0598
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0598**
Dilution Factor	**16.72240803**

88000

Diluted by: JW Date: 8/12/15

EBERLINE SERVICES	Internal Work Order	15-07182
	Fraction	> 10 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.17**	ml	from the original sample and diluted it to	**100**	ml	0.0517
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0517**
Dilution Factor	**19.34235977**

68089

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07182
	Fraction	**> 11 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.41**	ml	from the original sample and diluted it to	**100**	ml	0.0541
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0541**
Dilution Factor	**18.48428835**

06000

Diluted by: JW Date: 8/10/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/31/2015 7:20 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07182	8/21/2015	7/30/2015	7/31/2015	8/1/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-5 063-064	29.2700	1123.9200	777.3600	1094.6500	748.0900	31.66%	68.34%	0.0000	0.0000	
05	FEEBRIS1D-5 051-052	29.3100	1091.9200	686.1800	1062.6100	656.8700	38.18%	61.82%	0.0000	0.0000	
06	FEEBRIS1D-6 080-081	29.4000	1125.0400	767.9300	1095.6400	738.5300	32.59%	67.41%	0.0000	0.0000	
07	FEEBRIS1D-6 085-086	29.4200	1233.7000	1004.0000	1204.2800	974.5800	19.07%	80.93%	0.0000	0.0000	
08	FEEBRIS1D-7 093-094	29.1500	1073.4800	879.2200	1044.3300	850.0700	18.60%	81.40%	0.0000	0.0000	
09	FEEBRIS1D-16 050-051	29.1900	1349.3000	972.3000	1320.1100	943.1100	28.56%	71.44%	0.0000	0.0000	
10	FEEBRIS1D-16 059-061	29.3300	1553.6600	1241.9600	1524.3300	1212.6300	20.45%	79.55%	0.0000	0.0000	
11	DUPLICATE 4	29.3400	1200.8000	972.0200	1171.4600	942.6800	19.53%	80.47%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

16000 91

Technician: Kenyscej

Date: **Analysis: Rough Prep Logbook**

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 7/31/2015 8:03 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-07182	grams	8/21/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-5 063-064	111.7500	121.9800		10.2300		
05	FEEBRIS1D-5 051-052	108.7900	113.9000		5.1100		
06	FEEBRIS1D-6 080-081	113.3900	118.7800		5.3900		
07	FEEBRIS1D-6 085-086	112.5700	117.7800		5.2100		
08	FEEBRIS1D-7 093-094	105.0200	110.6400		5.6200		
09	FEEBRIS1D-16 050-051	102.9200	108.9000		5.9800		
10	FEEBRIS1D-16 059-061	106.2800	111.4500		5.1700		
11	DUPLICATE 4	102.0400	107.4500		5.4100		

Comments

26000

Technician: Kerry Sallings Date: 7/31/15

Analysis: UUISO

KB 8/14/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 125651
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/14/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:29 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.657 mL
Effective Efficiency: 0.1868 +/- 0.0104
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 1.0933 +/- 0.0640

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 0.831778 +/- 0.064579
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.266	387.32	9.97	0.68	0.00E+000	21.4
U-234		4.719	531.00	8.51	0.00	0.00E+000	32.8
U-235		4.390	17.00	48.92	0.00	0.00E+000	3.0
U-238		4.142	497.66	8.79	0.34	0.00E+000	33.1

T = Tracer Peak used for Effective Efficiency

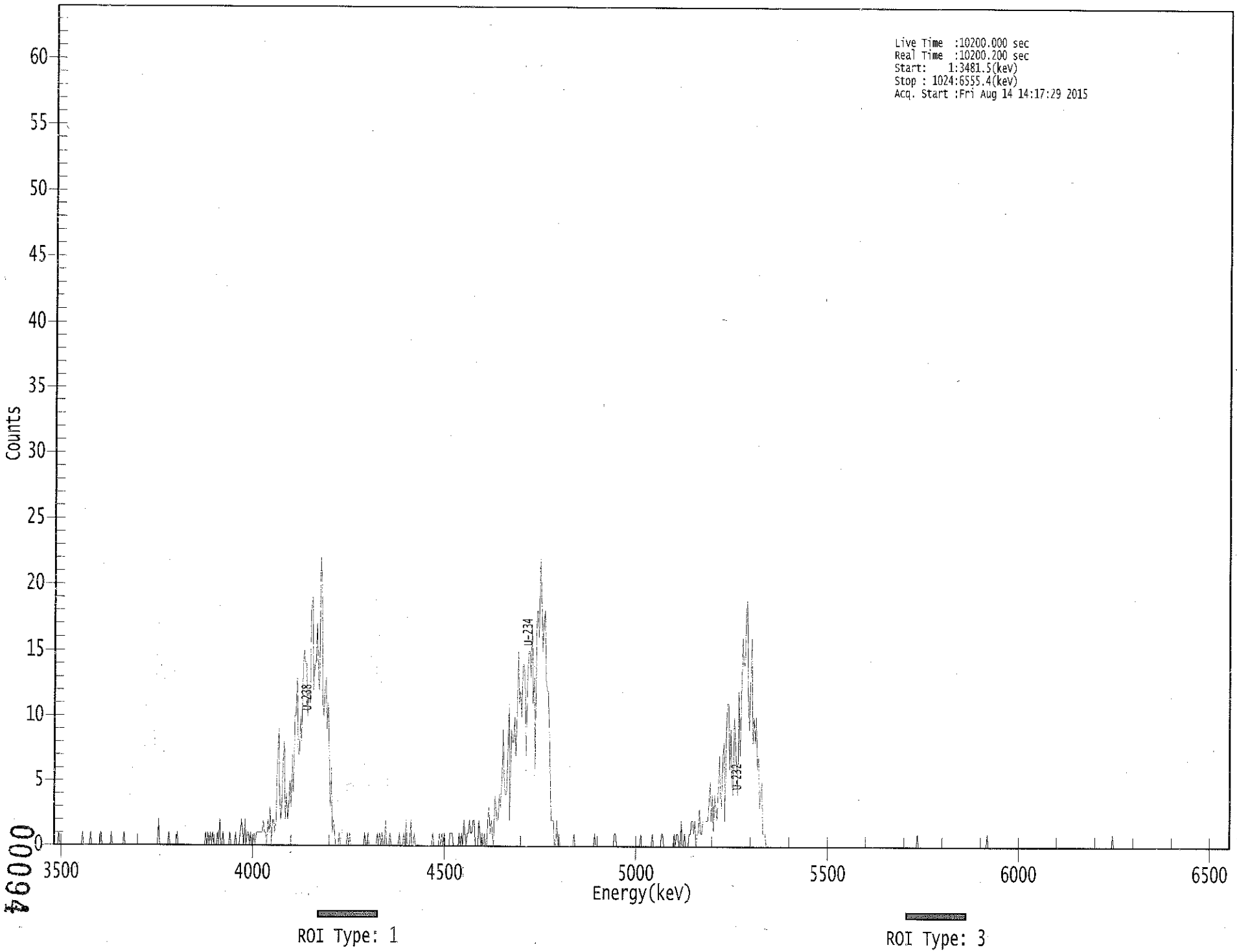
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.991	5302.50*	5.50E+000 +/- 6.02E-001	8.02E-002 +/- 8.77E-003
U-234	0.987	4761.50*	7.55E+000 +/- 1.05E+000	8.52E-002 +/- 9.32E-003
U-235	1.000	4385.50*	2.98E-001 +/- 1.49E-001	1.05E-001 +/- 1.15E-002
U-238	0.987	4184.40*	7.04E+000 +/- 9.88E-001	6.77E-002 +/- 7.40E-003

AG 8/17/15

00093

0000126002.CNF



00094

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	1	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	1	0	0	0	0	0	0
33:	1	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	1	0	0	0	0	0
57:	0	0	0	0	0	1	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	2	0	0	0	0
97:	0	0	0	0	1	0	0	0
105:	0	0	0	1	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	1	0	1	0
137:	1	0	1	0	0	0	1	0
145:	2	0	0	1	0	0	0	0
153:	0	1	0	0	0	0	1	0
161:	0	0	1	2	1	0	2	0
169:	1	1	0	1	0	0	1	0
177:	1	1	1	1	1	1	2	1
185:	1	0	2	1	3	0	2	2
193:	1	2	6	9	4	2	3	7
201:	8	2	4	2	3	5	3	7
209:	4	10	10	13	7	7	10	8
217:	14	15	14	14	10	12	11	18
225:	19	12	14	14	17	13	12	22
233:	20	11	10	12	13	9	11	7
241:	3	6	1	2	1	0	0	0
249:	1	0	0	0	0	0	0	1
257:	0	1	0	0	0	0	0	0
265:	0	0	0	0	0	0	1	0
273:	0	1	0	0	0	0	0	0
281:	0	1	0	1	0	1	0	0
289:	2	0	0	0	1	0	0	0
297:	0	0	0	0	1	0	0	0
305:	1	0	2	0	0	0	2	0
313:	0	1	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	1	0	0	0	0	0	1
337:	0	1	0	1	0	0	0	0
345:	1	1	1	0	0	0	0	0
353:	1	0	1	0	2	1	0	1
361:	1	2	1	1	2	2	0	0

369:	0	2	1	0	1	0	1	0

Sample Title: 01

Channel								
377:	0	2	3	1	2	1	0	4
385:	3	2	2	4	3	5	9	5
393:	4	4	7	11	2	9	8	8
401:	10	7	10	15	11	12	10	14
409:	14	12	7	13	15	15	13	17
417:	11	13	6	18	18	16	22	19
425:	15	17	18	13	12	12	9	6
433:	2	2	2	0	0	2	0	1
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	1	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	1	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	1
489:	1	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	1	0
513:	0	0	0	0	0	0	0	0
521:	1	0	0	0	0	0	0	0
529:	1	1	0	0	0	0	0	0
537:	0	0	0	1	0	1	1	0
545:	0	2	0	0	1	0	0	0
553:	1	1	2	2	1	2	0	1
561:	1	3	1	1	2	2	2	2
569:	2	3	5	2	4	1	4	3
577:	2	4	7	4	3	7	8	2
585:	9	11	11	6	9	5	4	10
593:	8	6	4	12	7	11	16	14
601:	14	18	19	11	9	13	16	8
609:	10	8	10	6	7	3	4	5
617:	1	1	1	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	1	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

00096

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	1	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	1	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 9/14/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 125652
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/14/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:31 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.663 mL
Effective Efficiency: 0.1863 +/- 0.0104
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.1534 +/- 0.0674

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.292	389.49	9.94	0.51	0.00E+000	22.1
U-234		4.742	1.83	152.56	0.17	0.00E+000	3.0
U-235		4.400	2.83	120.53	0.17	0.00E+000	6.0
U-238		4.132	-0.51	400.63	0.51	0.00E+000	0.0

T = Tracer Peak used for Effective Efficiency

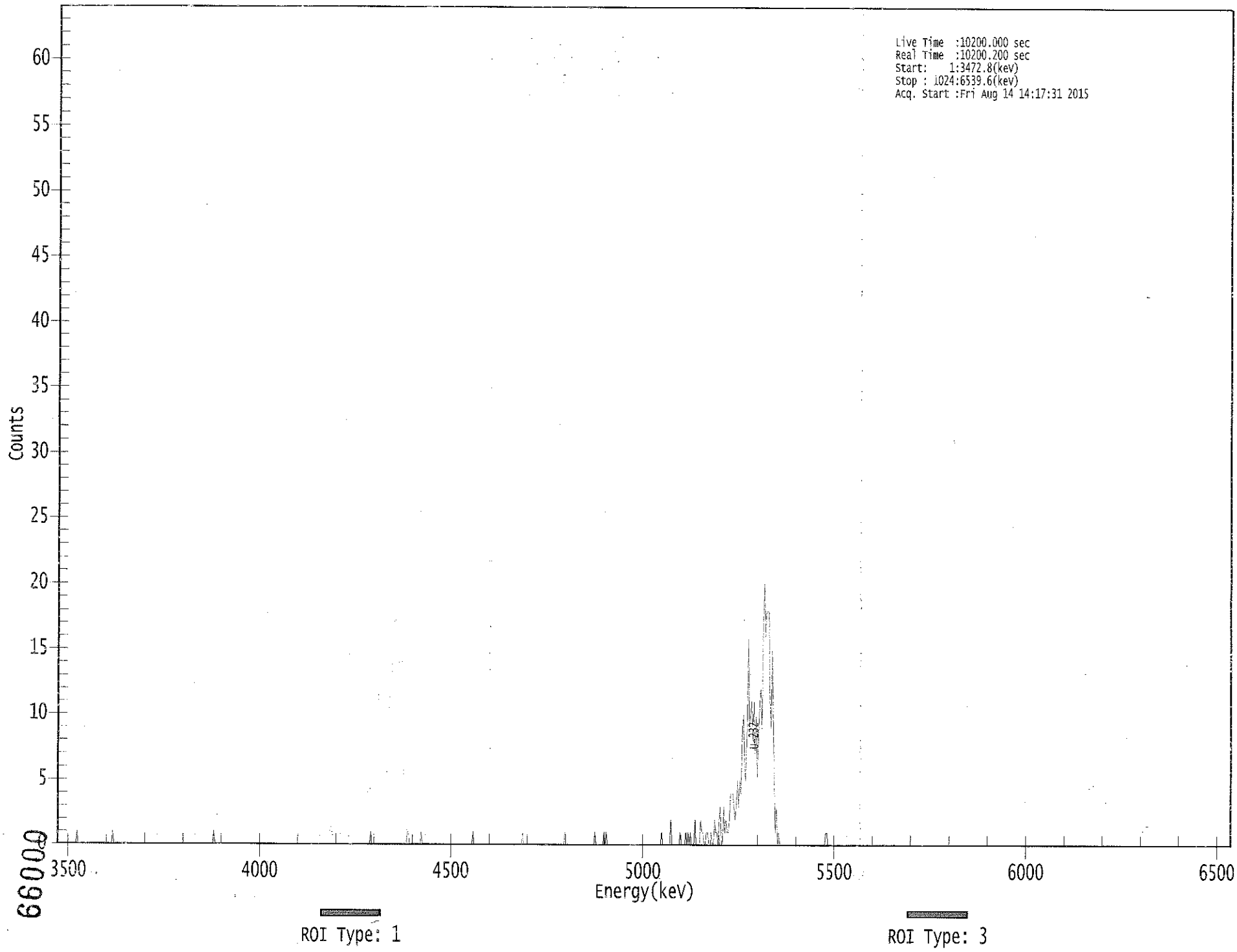
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.999	5302.50*	5.55E+000 +/- 6.06E-001	7.48E-002 +/- 8.16E-003
U-234	0.997	4761.50*	2.61E-002 +/- 3.99E-002	5.95E-002 +/- 6.49E-003
U-235	0.998	4385.50*	4.98E-002 +/- 6.02E-002	7.34E-002 +/- 8.01E-003
U-238	0.981	4184.40*	-7.24E-003 +/- 2.90E-002	7.45E-002 +/- 8.13E-003

AG 8/17/15

00098

0000126003.CNF



66000

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	1	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	1	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	1	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	1	1	0	0	0	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	0	0	0	0	0

00100

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	1	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	1	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	1	0	0	0
473:	0	0	0	0	1	0	1	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	1	0
529:	0	0	0	0	0	0	2	0
537:	0	0	0	0	0	0	1	0
545:	0	0	0	1	0	1	0	1
553:	0	0	0	2	0	0	0	0
561:	2	1	1	0	0	1	1	0
569:	0	1	0	0	2	1	1	0
577:	2	3	0	0	3	1	2	1
585:	1	2	4	4	4	3	2	3
593:	5	3	5	4	9	10	6	5
601:	9	16	9	10	11	8	11	7
609:	10	5	8	11	12	9	17	20
617:	16	18	18	18	11	9	15	9
625:	5	1	3	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	1	1	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-5 063-064-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 125653
Reagent Blank: <not performed>

Sample Size: 1.023E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/20/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:33 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.663 mL
Effective Efficiency: 0.1536 +/- 0.0093
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 0.7943 +/- 0.0500

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.213	321.00	10.96	0.00	0.00E+000	6.0
U-234		4.681	13.83	53.08	0.17	0.00E+000	4.5
U-235		4.389	2.83	120.53	0.17	0.00E+000	3.0
U-238		4.089	15.66	50.15	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

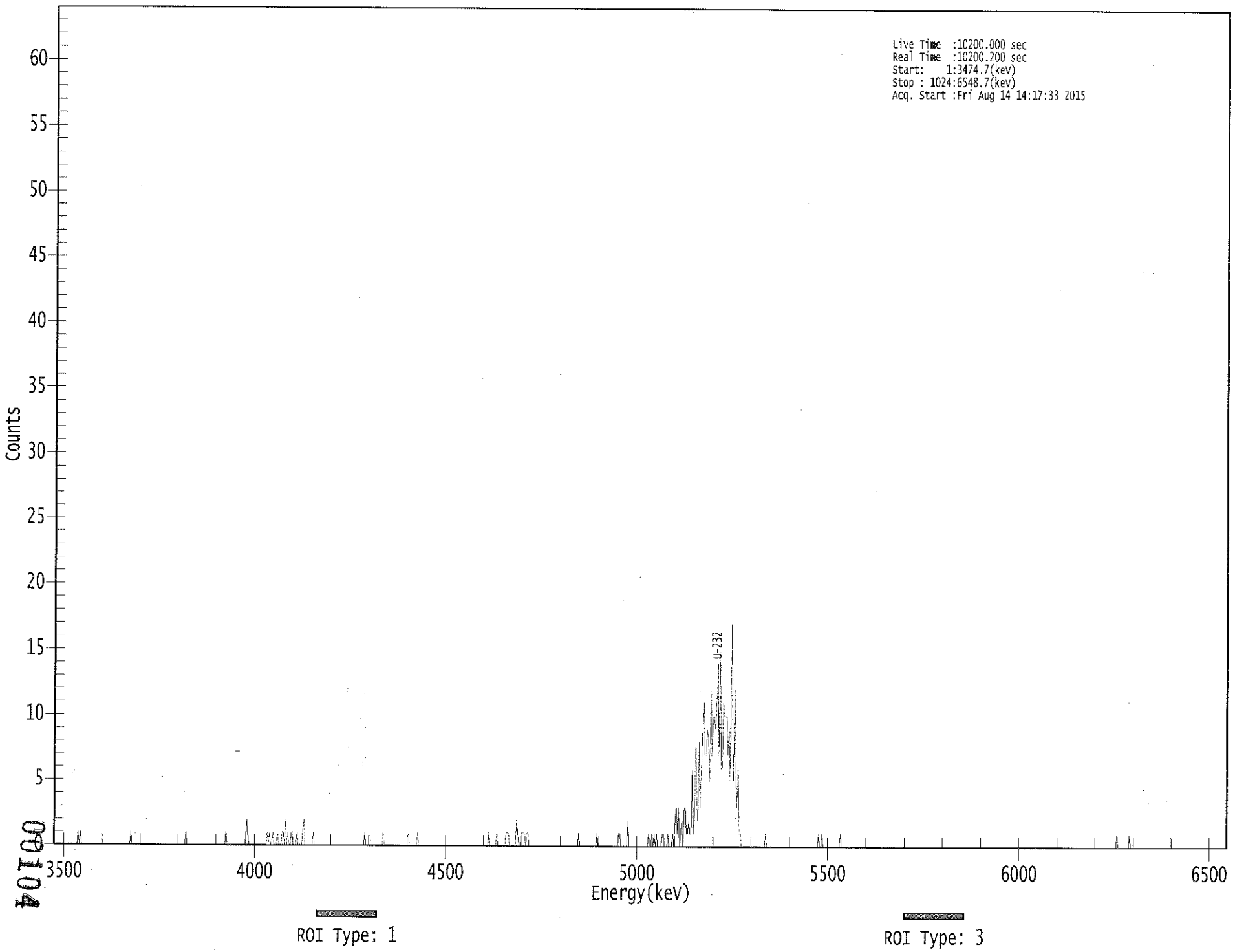
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.944	5302.50*	5.43E+000 +/- 6.43E-001	1.01E-001 +/- 1.20E-002
U-234	0.955	4761.50*	2.34E-001 +/- 1.27E-001	7.05E-002 +/- 8.35E-003
U-235	1.000	4385.50*	5.90E-002 +/- 7.14E-002	8.70E-002 +/- 1.03E-002
U-238	0.938	4184.40*	2.63E-001 +/- 1.36E-001	8.04E-002 +/- 9.53E-003

AG 8/17/15

00103

0000126005.CNF



00104

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	1	0	1
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	1	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	1	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	1	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	2	1	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	1	0	1	0	0	1
193:	0	0	0	1	0	0	0	1
201:	1	0	2	0	1	0	0	1
209:	1	0	0	0	1	0	0	0
217:	0	1	2	0	0	0	0	0
225:	0	0	1	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	1
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	1
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

00105

369:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
377:	0	0	0	1	0	0	0	0
385:	0	0	1	0	0	0	0	0
393:	0	0	1	1	1	0	0	0
401:	0	0	0	2	1	0	0	1
409:	1	1	1	0	1	1	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	1	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	1	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	1	1	0	0
497:	0	0	0	0	2	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	1	0
521:	0	1	0	1	0	1	0	0
529:	0	0	1	1	0	0	0	1
537:	0	0	0	1	0	2	3	1
545:	3	0	1	2	0	3	3	1
553:	1	2	1	1	6	1	2	8
561:	4	2	8	3	6	9	11	7
569:	7	9	8	5	12	7	10	10
577:	9	11	14	7	15	6	6	11
585:	10	10	10	7	9	5	17	10
593:	5	12	6	3	6	1	1	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	1	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	1	0	0	1	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	1	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	1	0
929:	0	0	0	0	0	0	0	0
937:	0	1	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KP 9/14/15

Sample Description: FEEBRIS1D-5 063-064
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 125654
Reagent Blank: <not performed>

Sample Size: 1.023E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/20/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:35 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.658 mL
Effective Efficiency: 0.0999 +/- 0.0073
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 0.5383 +/- 0.0406

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.285	207.15	13.65	0.85	0.00E+000	5.2
U-234		4.727	10.49	62.21	0.51	0.00E+000	3.0
U-235		4.493	0.49	416.98	0.51	0.00E+000	3.0
U-238		4.152	7.83	70.93	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

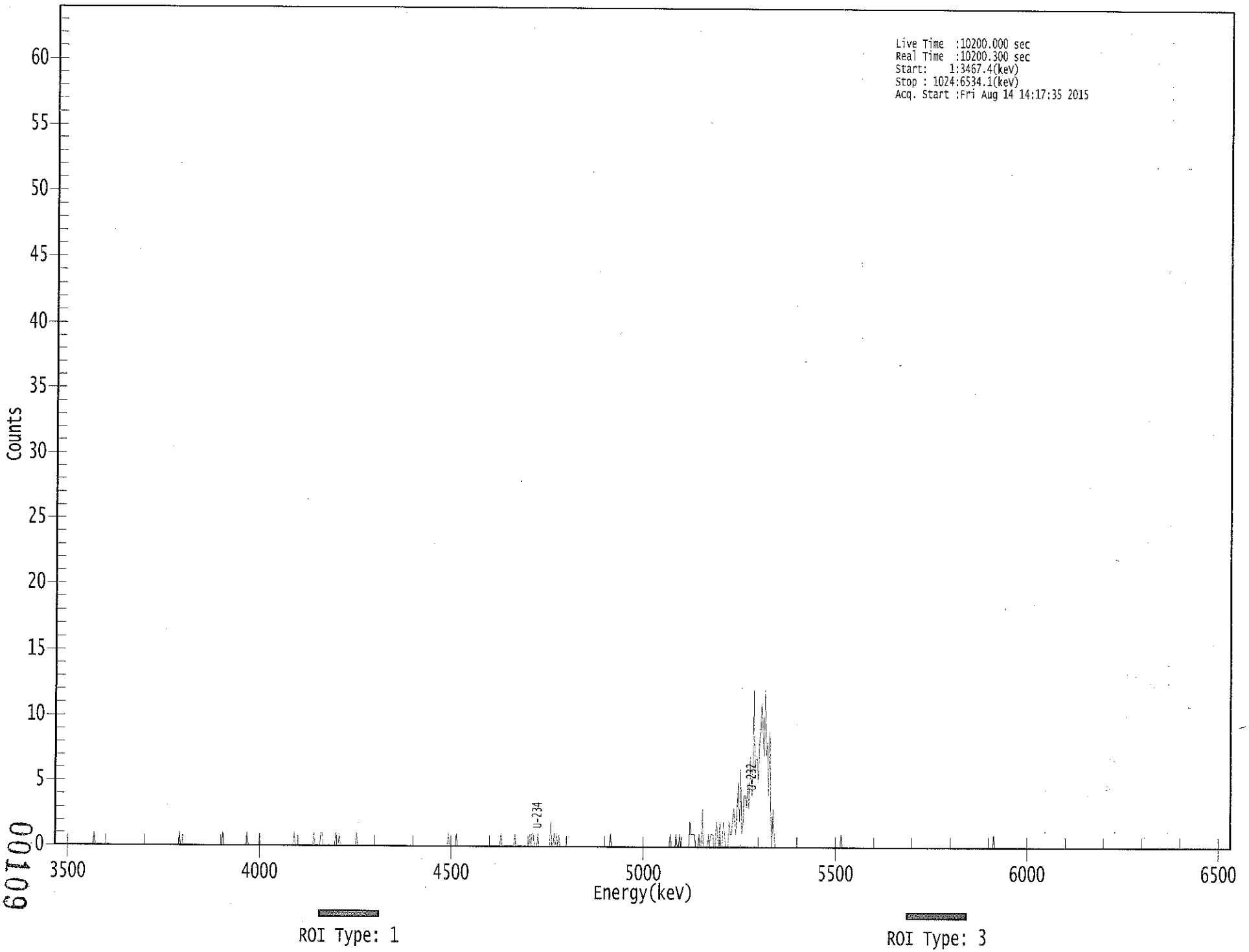
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	5.39E+000 +/- 7.74E-001	1.56E-001 +/- 2.24E-002
U-234	0.992	4761.50*	2.73E-001 +/- 1.74E-001	1.36E-001 +/- 1.96E-002
U-235	0.922	4385.50*	1.57E-002 +/- 6.55E-002	1.68E-001 +/- 2.42E-002
U-238	0.993	4184.40*	2.03E-001 +/- 1.47E-001	1.08E-001 +/- 1.55E-002

AG 8/17/15

00108

0000126006.CNF



00109

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	1	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	1	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	1
169:	0	0	0	0	0	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	1	0	0	0	0	0	1
233:	1	0	0	0	0	0	0	0
241:	0	0	0	0	1	0	0	1
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	1	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	1	0
345:	0	0	0	0	0	1	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	1	0	0	0
393:	0	0	0	0	0	0	0	0
401:	1	0	0	0	0	0	0	0
409:	0	0	0	0	0	1	0	1
417:	1	0	0	0	1	0	0	0
425:	0	0	0	0	0	0	0	2
433:	0	0	1	0	1	0	1	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	1	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	1
537:	0	0	0	0	1	0	0	1
545:	0	0	0	0	0	0	0	0
553:	2	1	1	1	1	0	0	0
561:	1	0	0	3	0	0	0	0
569:	1	0	1	1	1	0	0	2
577:	1	0	2	0	0	2	1	0
585:	0	0	2	1	1	2	3	2
593:	1	3	5	2	6	1	2	4
601:	4	3	5	3	7	4	4	12
609:	6	7	7	5	8	9	11	9
617:	7	12	7	8	4	9	3	0
625:	3	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	1	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	1	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 9/14/15

Apex-Alpha™

Sample Description:	FEEBRIS1D-5 051-052
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification:	1507182A-UU
Sample Identification:	05
Sample Geometry:	Shelf 2
Procedure Description:	U iso
Detector Name:	Alpha_041
Chamber Serial Number:	05026930A
Detector Serial Number:	91087
Env. Background:	System Bkgd 125655
Reagent Blank:	<not performed>
Sample Size:	1.022E+000 +/- 0.000E+000 gram
Sample Date/Time:	7/20/2015 6:21:12 AM
Acquisition Date/Time:	8/14/2015 2:17:37 PM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	U232_UU-10A
Tracer Quantity:	0.664 mL
Effective Efficiency:	0.1728 +/- 0.0099
Counting Efficiency:	0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor:	0.9226 +/- 0.0554
Peak Match Tolerance:	0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.284	362.00	10.32	0.00	0.00E+000	13.5
U-234		4.730	15.30	57.05	2.70	0.00E+000	4.5
U-235		4.392	7.32	77.82	0.68	0.00E+000	3.0
U-238		4.170	11.95	71.02	4.05	0.00E+000	4.5

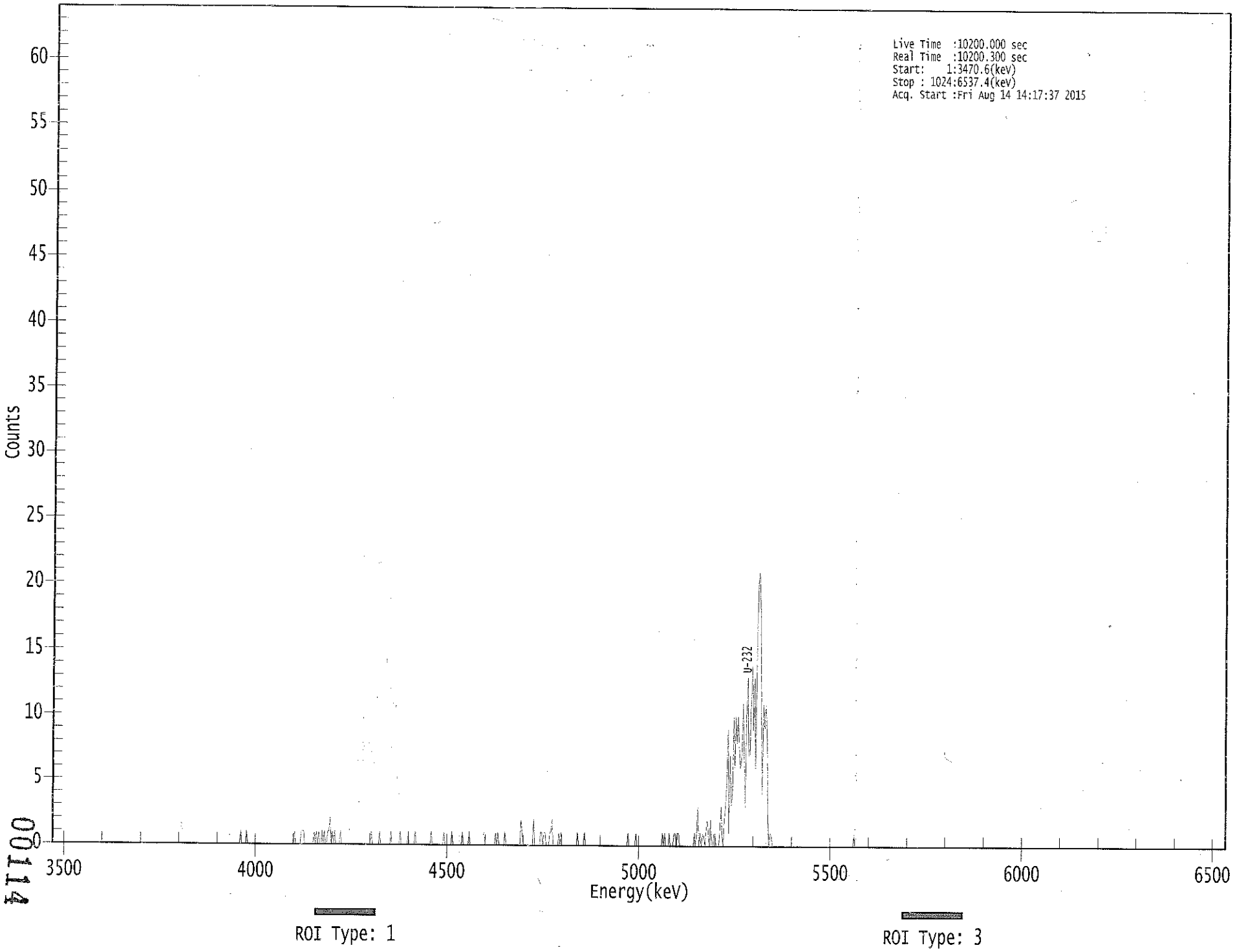
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	5.45E+000 +/- 6.13E-001	9.02E-002 +/- 1.02E-002
U-234	0.993	4761.50*	2.30E-001 +/- 1.34E-001	1.46E-001 +/- 1.64E-002
U-235	1.000	4385.50*	1.36E-001 +/- 1.07E-001	1.15E-001 +/- 1.30E-002
U-238	0.999	4184.40*	1.79E-001 +/- 1.29E-001	1.69E-001 +/- 1.90E-002

AG
8/17/15

0000126007.CNF



0014

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	1	0	0	0
169:	0	1	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	1	0	0	0	0
217:	0	1	1	1	0	0	0	0
225:	0	0	0	0	1	0	1	0
233:	1	0	0	1	0	1	0	0
241:	1	1	2	0	1	0	1	0
249:	0	0	0	1	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	1	0
281:	0	0	0	0	0	1	0	0
289:	0	0	0	0	0	0	0	1
297:	0	0	0	0	0	0	0	1
305:	0	0	0	0	0	0	1	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	0	1	0	0
345:	0	0	0	0	1	0	0	0
353:	0	0	0	0	0	1	0	0
361:	0	0	0	1	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	1	0	1	0	0	0
393:	0	0	1	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	2	1	0	0	0	0	0	0
417:	0	0	0	2	0	0	0	0
425:	0	1	1	0	1	1	0	0
433:	0	1	1	2	0	0	0	0
441:	0	1	0	1	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	1	0	0	0	0	0	1
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	1	0	0
505:	0	0	0	0	1	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	1	0	1	0	0
537:	0	1	0	0	0	1	1	0
545:	1	1	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	1
561:	0	1	3	0	1	0	1	1
569:	0	1	2	1	0	2	0	0
577:	1	1	0	0	0	1	3	1
585:	0	2	3	5	9	1	7	3
593:	4	10	6	10	8	10	7	6
601:	7	11	7	3	10	13	7	7
609:	11	14	9	13	6	16	20	21
617:	18	10	4	11	9	11	9	2
625:	0	1	1	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	1	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

9/14/15

Sample Description: FEEBRIS1D-6 080-081
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 125656
Reagent Blank: <not performed>

Sample Size: 1.078E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/21/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:38 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.662 mL
Effective Efficiency: 0.1862 +/- 0.0104
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 1.0718 +/- 0.0626

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.275	389.00	9.95	0.00	0.00E+000	22.3
U-234		4.723	169.00	15.12	0.00	0.00E+000	14.5
U-235		4.392	7.00	79.20	0.00	0.00E+000	3.0
U-238		4.152	166.65	15.29	1.35	0.00E+000	7.0

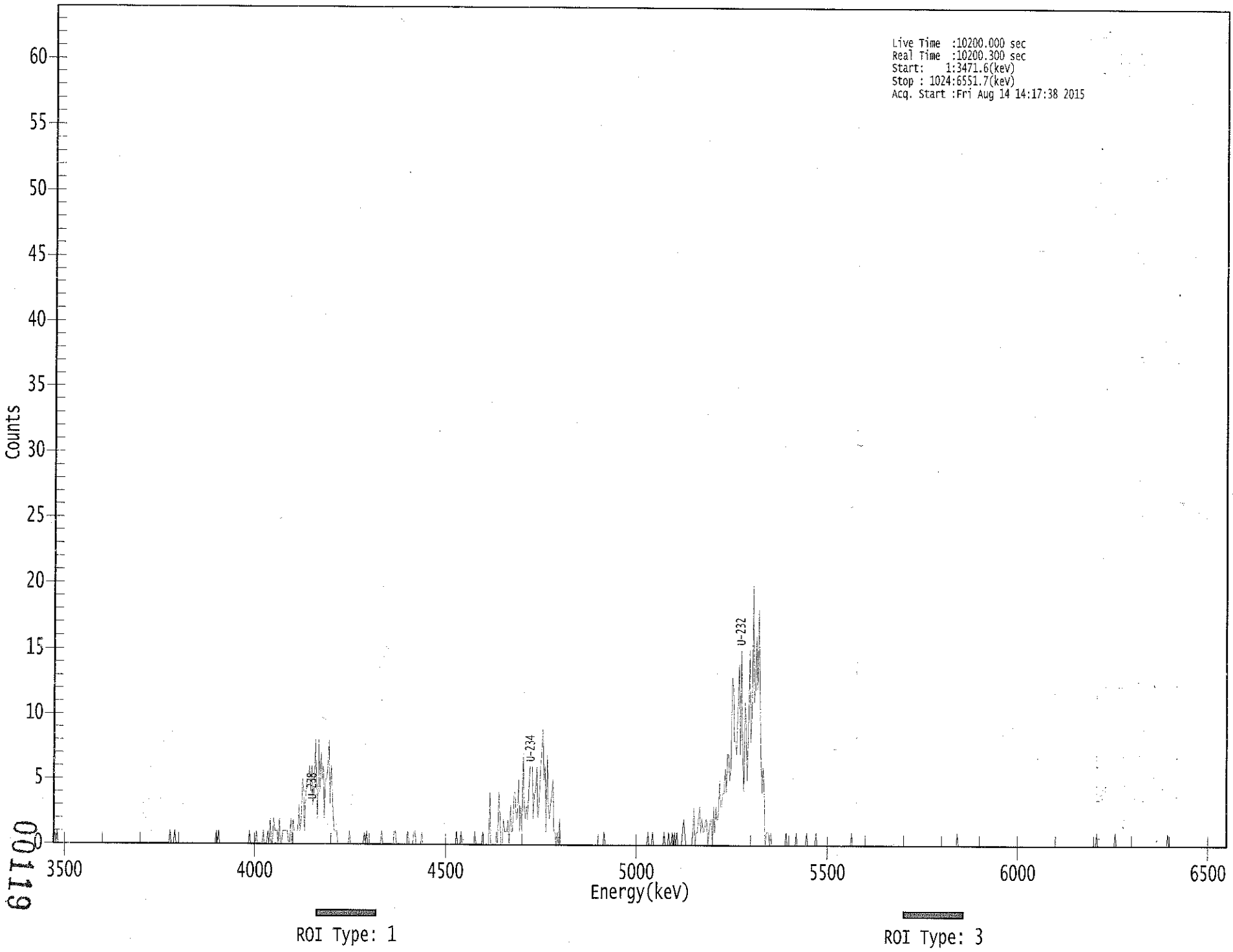
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	5.15E+000 +/- 5.62E-001	7.94E-002 +/- 8.67E-003
U-234	0.990	4761.50*	2.24E+000 +/- 4.17E-001	7.93E-002 +/- 8.66E-003
U-235	1.000	4385.50*	1.14E-001 +/- 9.13E-002	9.78E-002 +/- 1.07E-002
U-238	0.992	4184.40*	2.19E+000 +/- 4.12E-001	1.01E-001 +/- 1.10E-002

AG
8/17/15

0000126008.CNF



00119

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	1	0	1	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	1	0
105:	0	0	1	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	1	0
145:	1	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	1	0	0	0	0
177:	0	1	0	0	0	0	0	1
185:	0	0	0	1	0	2	0	0
193:	2	1	1	1	0	2	0	0
201:	1	1	1	1	1	0	0	2
209:	0	2	1	1	1	1	3	1
217:	2	5	4	1	4	5	5	6
225:	4	6	3	4	8	5	2	8
233:	4	7	5	6	2	5	5	6
241:	8	3	6	4	2	1	1	1
249:	0	0	0	0	0	0	0	0
257:	0	0	1	0	0	0	0	0
265:	0	0	0	0	0	0	0	1
273:	0	1	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	1	1	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	1	1	0	0	0	0
321:	0	1	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	1
353:	0	0	0	1	0	0	0	0
361:	0	0	0	0	0	0	0	1

00120

369:	0	0	0	0	0	0	1	0

Sample Title: 06

Channel								
377:	0	0	0	0	4	0	0	0
385:	0	0	1	0	4	2	0	0
393:	2	1	1	1	2	0	3	1
401:	1	4	4	2	2	5	1	3
409:	1	7	3	2	3	2	4	6
417:	6	6	2	4	4	6	2	3
425:	6	7	9	5	6	1	7	3
433:	2	3	4	5	1	1	0	1
441:	0	2	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	1	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	1	0
521:	0	0	1	0	0	0	0	0
529:	0	0	0	0	1	0	0	0
537:	1	0	0	1	0	1	0	1
545:	0	0	0	0	1	2	1	0
553:	0	0	0	0	0	1	3	0
561:	1	1	2	3	1	2	1	1
569:	2	2	0	1	2	2	0	3
577:	1	3	2	2	5	3	3	4
585:	4	6	4	7	7	5	6	13
593:	12	8	8	7	11	14	7	15
601:	7	4	11	9	5	9	15	8
609:	10	20	11	12	16	12	18	12
617:	7	4	6	4	0	1	1	1
625:	0	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	1	0
641:	0	0	0	0	0	0	0	1
649:	0	0	0	0	0	0	0	0
657:	1	0	0	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	1
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	1	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	1	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	1	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	1	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 8/17/15

Apex-Alpha™

Sample Description:	FEEBRIS1D-6 085-086
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification:	1507182A-UU
Sample Identification:	07
Sample Geometry:	Shelf 2
Procedure Description:	U iso
Detector Name:	Alpha_043
Chamber Serial Number:	04026481A
Detector Serial Number:	91088
Env. Background:	System Bkgd 125657
Reagent Blank:	<not performed>
Sample Size:	1.042E+000 +/- 0.000E+000 gram
Sample Date/Time:	7/21/2015 6:21:12 AM
Acquisition Date/Time:	8/14/2015 2:17:40 PM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	U232_UU-10A
Tracer Quantity:	0.664 mL
Effective Efficiency:	0.1365 +/- 0.0087
Counting Efficiency:	0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor:	0.6830 +/- 0.0450
Peak Match Tolerance:	0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.286	285.98	11.61	1.02	0.00E+000	14.6
U-234		4.732	9.15	68.23	0.85	0.00E+000	3.0
U-235		4.366	0.83	239.53	0.17	0.00E+000	3.0
U-238		4.149	16.49	49.13	0.51	0.00E+000	3.0

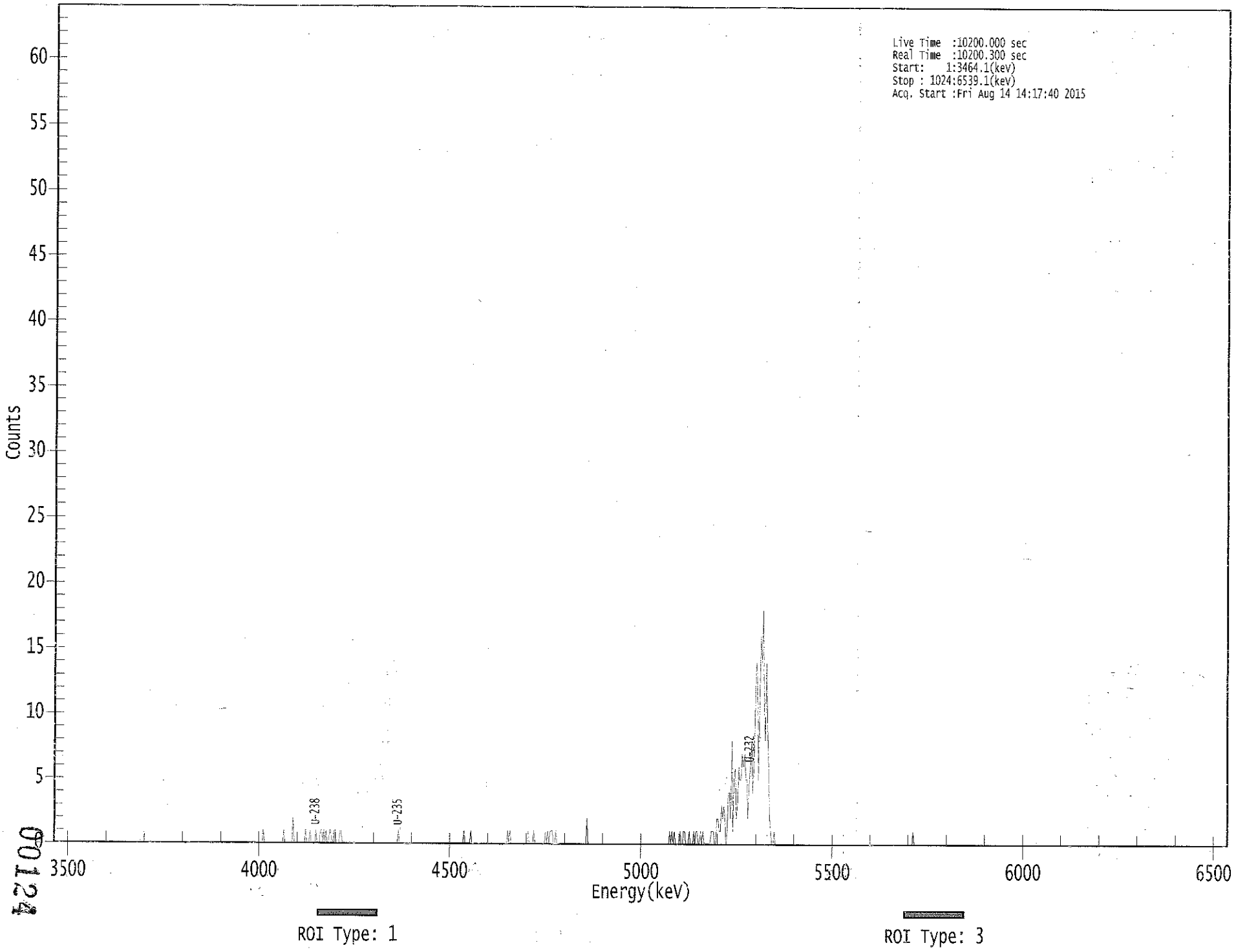
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	5.34E+000 +/- 6.66E-001	1.18E-001 +/- 1.47E-002
U-234	0.994	4761.50*	1.71E-001 +/- 1.18E-001	1.12E-001 +/- 1.39E-002
U-235	0.997	4385.50*	1.91E-002 +/- 4.58E-002	9.61E-002 +/- 1.20E-002
U-238	0.991	4184.40*	3.07E-001 +/- 1.55E-001	9.75E-002 +/- 1.22E-002

AG 8/17/15

0000126009.CNF



0124

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	1	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	2	0	0	0	0	0	0	0
217:	0	0	0	1	0	0	0	1
225:	0	0	0	0	1	0	0	0
233:	1	1	0	1	0	1	0	0
241:	1	1	0	0	1	1	0	0
249:	0	1	1	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	1	0	0
361:	0	0	0	1	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	1	0	1	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	1	0	0
417:	0	0	1	0	0	0	0	0
425:	0	0	0	0	1	0	1	0
433:	1	1	1	0	0	1	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	2	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	1	0	1	0	1	0	0	0
545:	0	1	0	0	1	1	0	0
553:	0	1	0	0	0	1	0	1
561:	1	0	0	1	0	1	0	0
569:	0	0	0	0	1	1	1	0
577:	0	2	2	1	1	3	2	3
585:	2	0	1	4	4	2	8	1
593:	5	6	2	3	6	5	5	7
601:	6	7	5	5	2	5	6	8
609:	4	6	10	14	13	5	10	16
617:	14	18	11	8	14	9	6	2
625:	1	0	0	1	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	1	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

ICB 9/14/16

Sample Description: FEEBRIS1D-7 093-094
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 125658
Reagent Blank: <not performed>

Sample Size: 1.124E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:42 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.664 mL
Effective Efficiency: 0.1725 +/- 0.0099
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 0.9390 +/- 0.0564

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.287	361.00	10.33	0.00	0.00E+000	12.0
U-234		4.741	12.00	58.89	0.00	0.00E+000	4.5
U-235		4.408	3.00	130.67	0.00	0.00E+000	3.0
U-238		4.167	15.83	49.57	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	4.95E+000 +/- 5.58E-001	8.22E-002 +/- 9.26E-003
U-234	0.997	4761.50*	1.64E-001 +/- 9.85E-002	8.21E-002 +/- 9.26E-003
U-235	0.996	4385.50*	5.07E-002 +/- 6.65E-002	1.01E-001 +/- 1.14E-002
U-238	0.998	4184.40*	2.16E-001 +/- 1.10E-001	5.69E-002 +/- 6.42E-003

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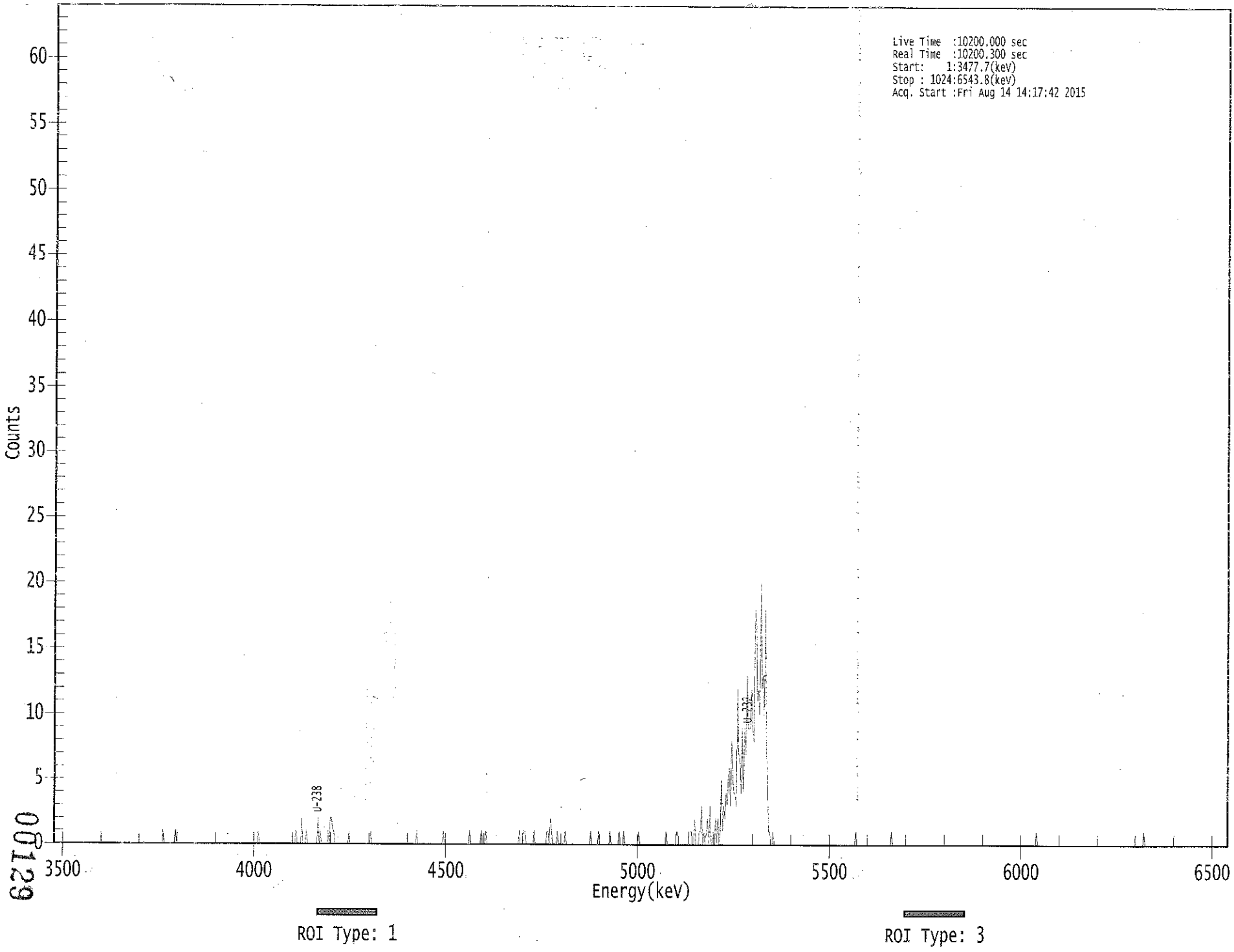
00128

0000126010.CNF



00129

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	1
97:	0	0	0	0	0	0	0	0
105:	0	0	1	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	1	0	0	0	0
217:	2	0	0	0	1	0	0	0
225:	0	0	0	0	0	0	2	0
233:	1	0	0	0	0	0	0	1
241:	0	2	2	1	1	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	1	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	1	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	1	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	0	0	0	0	0

369:	0	0	0	0	1	0	0	0

Sample Title: 08

Channel								
377:	1	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	1	0	0
409:	0	1	1	0	0	0	0	0
417:	0	0	1	0	0	0	0	0
425:	0	0	0	0	0	1	1	0
433:	2	1	0	0	0	0	1	0
441:	0	0	0	0	0	1	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	1	0	0	0	0
473:	0	0	1	0	0	0	0	0
481:	0	0	0	0	1	0	0	0
489:	0	0	0	0	1	0	0	0
497:	1	0	0	0	0	0	0	0
505:	0	0	0	0	0	1	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	0	0	0	1	1
545:	0	0	0	0	0	0	0	0
553:	0	1	1	1	0	0	2	0
561:	0	0	1	1	3	0	1	0
569:	1	2	0	3	0	0	1	0
577:	2	0	2	0	1	5	1	3
585:	2	4	3	5	6	3	8	5
593:	4	4	3	12	7	7	4	9
601:	4	9	7	13	9	9	9	12
609:	9	8	18	17	11	12	10	20
617:	12	13	10	18	7	6	1	1
625:	0	0	1	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	1	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	1	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	1
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	1	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 9/14/16

Apex-Alpha™

Sample Description: FEEBRIS1D-16 050-051
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 125659
Reagent Blank: <not performed>

Sample Size: 1.196E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:44 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.663 mL
Effective Efficiency: 0.1097 +/- 0.0077
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 0.6178 +/- 0.0448

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.281	229.45	13.02	2.55	0.00E+000	7.5
U-234		4.725	248.79	12.49	2.21	0.00E+000	7.1
U-235		4.378	12.13	61.14	1.87	0.00E+000	3.0
U-238		4.146	236.94	12.83	3.06	0.00E+000	4.0

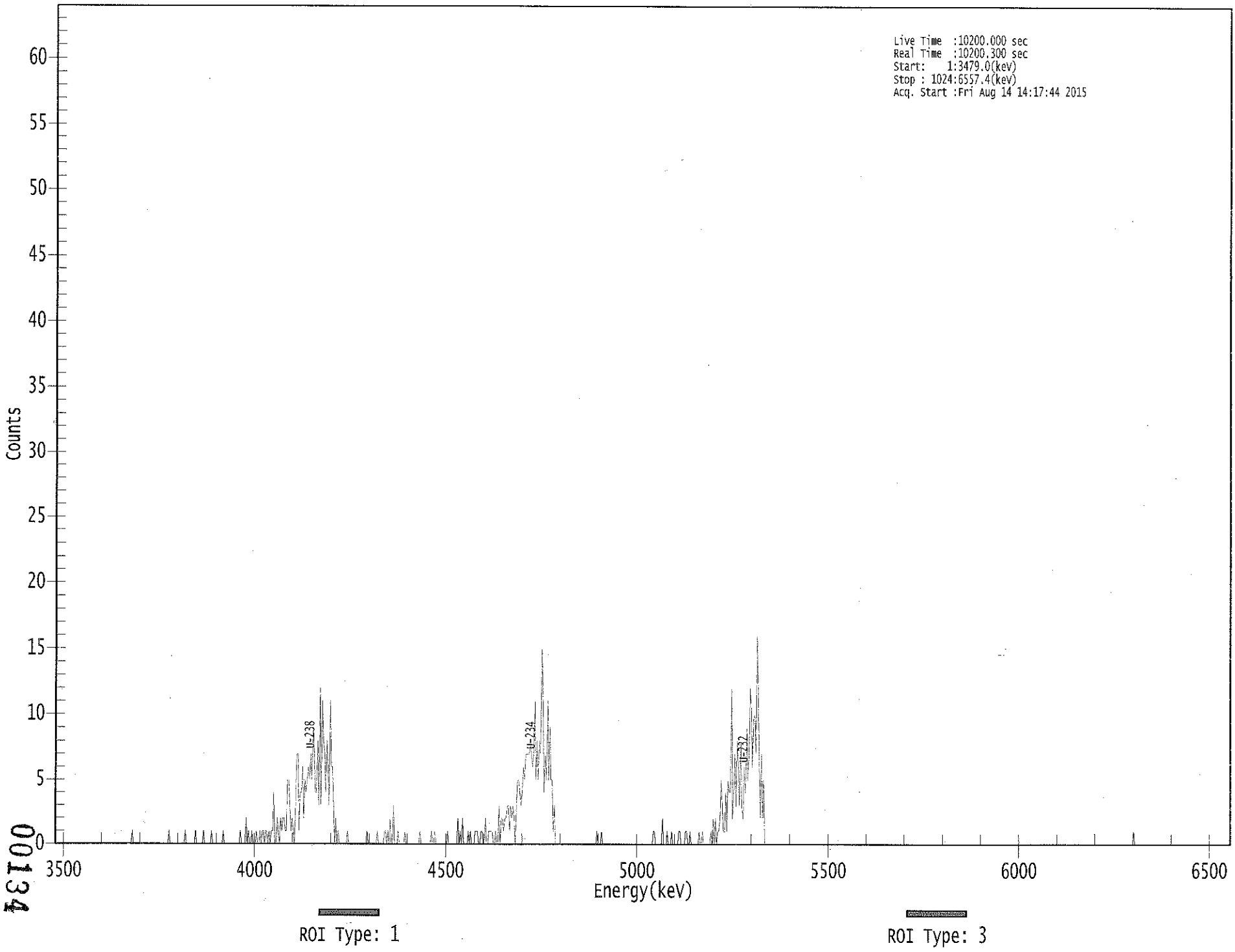
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.997	5302.50*	4.64E+000 +/- 6.40E-001	1.70E-001 +/- 2.34E-002
U-234	0.991	4761.50*	5.03E+000 +/- 9.36E-001	1.62E-001 +/- 2.23E-002
U-235	1.000	4385.50*	3.03E-001 +/- 1.90E-001	1.89E-001 +/- 2.60E-002
U-238	0.990	4184.40*	4.77E+000 +/- 8.99E-001	1.80E-001 +/- 2.48E-002

AG 8/17/15

0000126004.CNF



00134

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	1	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	1	0	0	0	0	0	0
121:	0	0	1	0	0	0	0	0
129:	0	1	0	0	0	0	0	0
137:	1	0	0	0	0	0	0	0
145:	0	0	1	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	1	0	0	0	0	2	0
169:	1	0	0	1	0	0	0	1
177:	0	0	1	0	1	1	0	1
185:	1	0	1	0	1	1	4	0
193:	0	2	1	0	2	1	2	2
201:	1	1	5	5	3	1	2	1
209:	0	3	7	7	1	4	4	6
217:	2	5	4	5	6	5	7	5
225:	9	7	4	4	8	3	12	3
233:	11	8	7	4	8	6	3	11
241:	6	6	3	0	2	0	1	0
249:	0	0	0	0	0	0	1	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	1
273:	0	0	0	0	0	0	0	0
281:	1	0	0	0	0	0	1	1
289:	0	1	0	2	0	0	3	0
297:	0	0	1	0	0	0	0	0
305:	1	0	0	0	0	0	0	0
313:	0	0	0	0	0	1	0	0
321:	0	0	0	0	0	0	0	1
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	0	1	0	0
345:	0	0	0	0	0	0	2	0
353:	1	0	2	0	0	0	0	1
361:	0	1	0	0	0	1	1	1

369:	0	0	1	1	0	0	2	0

Sample Title: 09

Channel								
377:	0	1	1	1	1	0	0	1
385:	0	0	3	0	2	2	1	2
393:	2	3	3	1	3	2	3	2
401:	0	3	5	5	4	3	4	6
409:	5	7	7	7	7	8	7	6
417:	7	11	5	8	5	8	7	15
425:	10	4	7	5	11	5	9	5
433:	5	1	3	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	1	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	1	1	0	0	0	0	0	0
529:	2	0	0	0	1	0	0	0
537:	1	0	0	0	0	0	1	1
545:	0	0	0	0	1	1	0	0
553:	1	0	0	0	0	0	0	0
561:	1	0	0	1	0	0	0	0
569:	0	0	1	0	2	0	2	0
577:	1	1	2	5	3	1	1	4
585:	1	5	4	4	12	2	4	7
593:	3	8	6	3	8	3	2	6
601:	4	9	5	7	12	10	6	10
609:	10	7	16	11	6	2	7	2
617:	5	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	1	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

WB 9/14/16

Sample Description: FEEBRIS1D-16 059-061
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification: 1507182A-UU
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_047
Chamber Serial Number: 02030596A
Detector Serial Number: 91086
Env. Background: System Bkgd 125660
Reagent Blank: <not performed>

Sample Size: 1.034E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 6:21:12 AM
Acquisition Date/Time: 8/14/2015 2:17:46 PM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.663 mL
Effective Efficiency: 0.1864 +/- 0.0104
Counting Efficiency: 0.1650 +/- 0.0029 on 10/25/2014 3:23:35 PM
Chem. Recovery Factor: 1.1295 +/- 0.0660

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.278	389.66	9.93	0.34	0.00E+000	8.0
U-234		4.747	7.32	76.28	0.68	0.00E+000	3.0
U-235		4.401	7.00	79.20	0.00	0.00E+000	3.0
U-238		4.150	12.83	55.14	0.17	0.00E+000	7.4

T = Tracer Peak used for Effective Efficiency

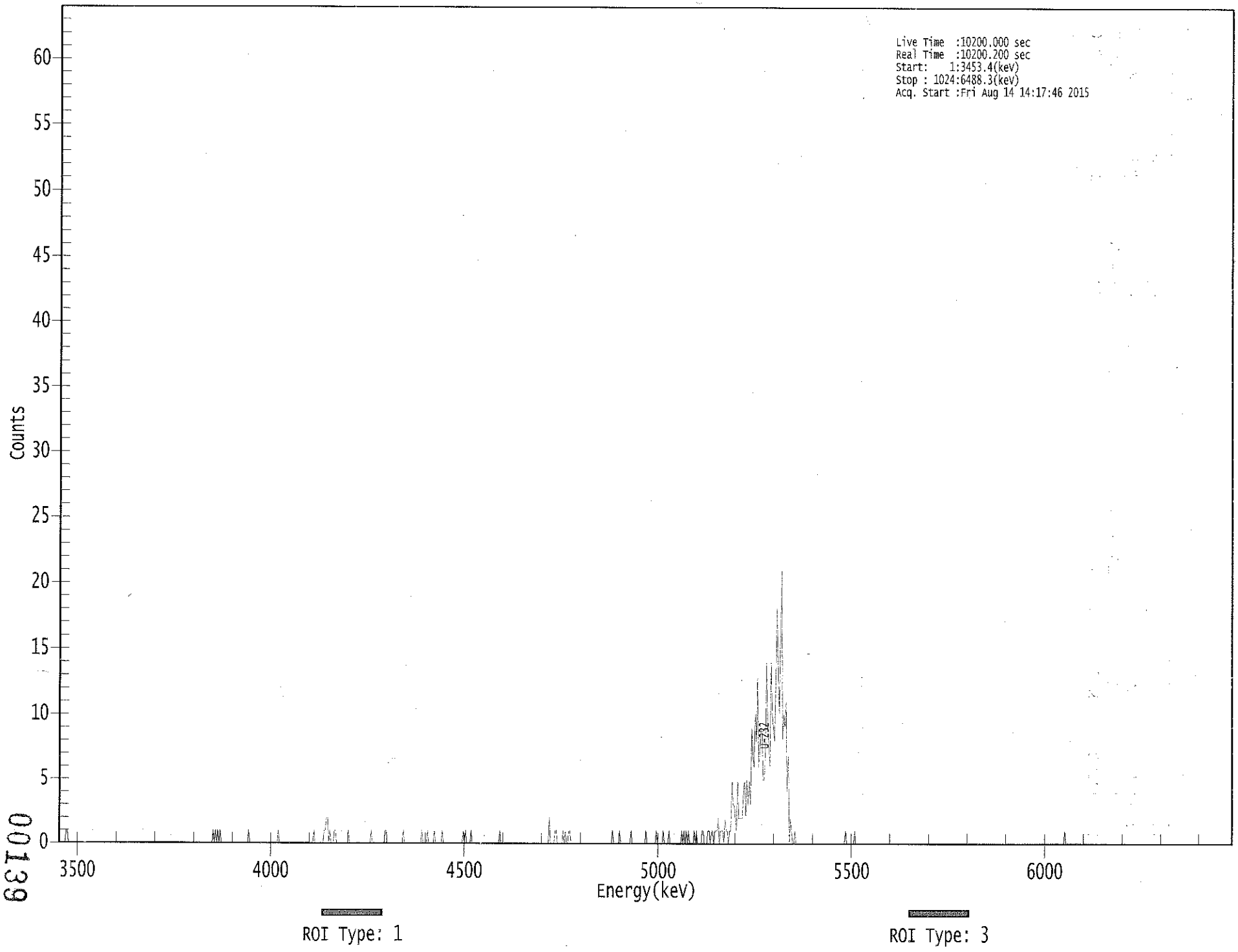
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	5.37E+000 +/- 5.86E-001	6.59E-002 +/- 7.19E-003
U-234	0.998	4761.50*	1.01E-001 +/- 7.77E-002	7.77E-002 +/- 8.48E-003
U-235	0.998	4385.50*	1.19E-001 +/- 9.51E-002	1.02E-001 +/- 1.11E-002
U-238	0.991	4184.40*	1.76E-001 +/- 9.89E-002	5.72E-002 +/- 6.25E-003

AG 8/17/15

00138

0000126011.CNF



00139

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel							
1:	0	0	0	0	0	0	1	1
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	1	0
137:	1	0	1	0	1	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	1	0
225:	0	0	0	0	0	0	0	1
233:	1	2	2	0	1	0	0	0
241:	1	1	0	0	0	0	0	0
249:	0	0	0	0	1	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	1	0	0	0	0	0	0	0
281:	0	0	0	0	1	1	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	1	0	0	0	0	0	1
329:	0	0	0	0	0	0	1	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	1	0	1	0	0	0	0	1
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
377:	0	0	0	0	0	0	0	0
385:	1	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	2	0	0	0	0
433:	1	1	0	0	0	0	0	1
441:	0	1	0	0	1	1	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	1	0	0	0	0	0	0	0
497:	0	0	1	0	0	0	0	0
505:	0	0	0	0	0	0	0	1
513:	0	0	0	0	0	0	0	0
521:	1	0	0	0	0	0	1	0
529:	0	0	0	1	0	0	0	0
537:	0	0	0	0	0	0	1	0
545:	1	0	1	0	1	0	0	0
553:	0	1	0	1	0	0	0	0
561:	1	1	0	0	0	1	1	0
569:	1	1	0	1	1	1	2	0
577:	1	1	1	0	2	1	1	0
585:	1	1	5	3	3	2	1	5
593:	2	2	2	2	4	5	2	5
601:	3	5	3	9	7	6	10	8
609:	13	6	7	9	9	5	5	7
617:	14	9	8	6	14	10	9	8
625:	12	18	14	10	15	21	8	10
633:	9	11	4	7	0	2	1	0
641:	0	1	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	1	0	0
689:	0	0	0	0	0	1	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	1	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

Sample Description:	DUPLICATE 4
Spectrum File:	\\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001260
Batch Identification:	1507182A-UU
Sample Identification:	11
Sample Geometry:	Shelf 2
Procedure Description:	U iso
Detector Name:	Alpha_048
Chamber Serial Number:	02030596B
Detector Serial Number:	83111
Env. Background:	System Bkgd 125661
Reagent Blank:	<not performed>
Sample Size:	1.082E+000 +/- 0.000E+000 gram
Sample Date/Time:	7/27/2015 6:21:12 AM
Acquisition Date/Time:	8/14/2015 2:17:48 PM
Acquisition Live Time:	170.0 minutes
Acquisition Real Time:	170.0 minutes
Tracer Certificate:	U232_UU-10A
Tracer Quantity:	0.669 mL
Effective Efficiency:	0.1751 +/- 0.0100
Counting Efficiency:	0.1700 +/- 0.0030 on 10/25/2014 3:27:02 PM
Chem. Recovery Factor:	1.0300 +/- 0.0614
Peak Match Tolerance:	0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.285	369.81	10.21	1.19	0.00E+000	21.3
U-234		4.738	5.49	88.08	0.51	0.00E+000	3.0
U-235		4.403	1.83	152.56	0.17	0.00E+000	3.0
U-238		4.140	20.66	43.53	0.34	0.00E+000	3.0

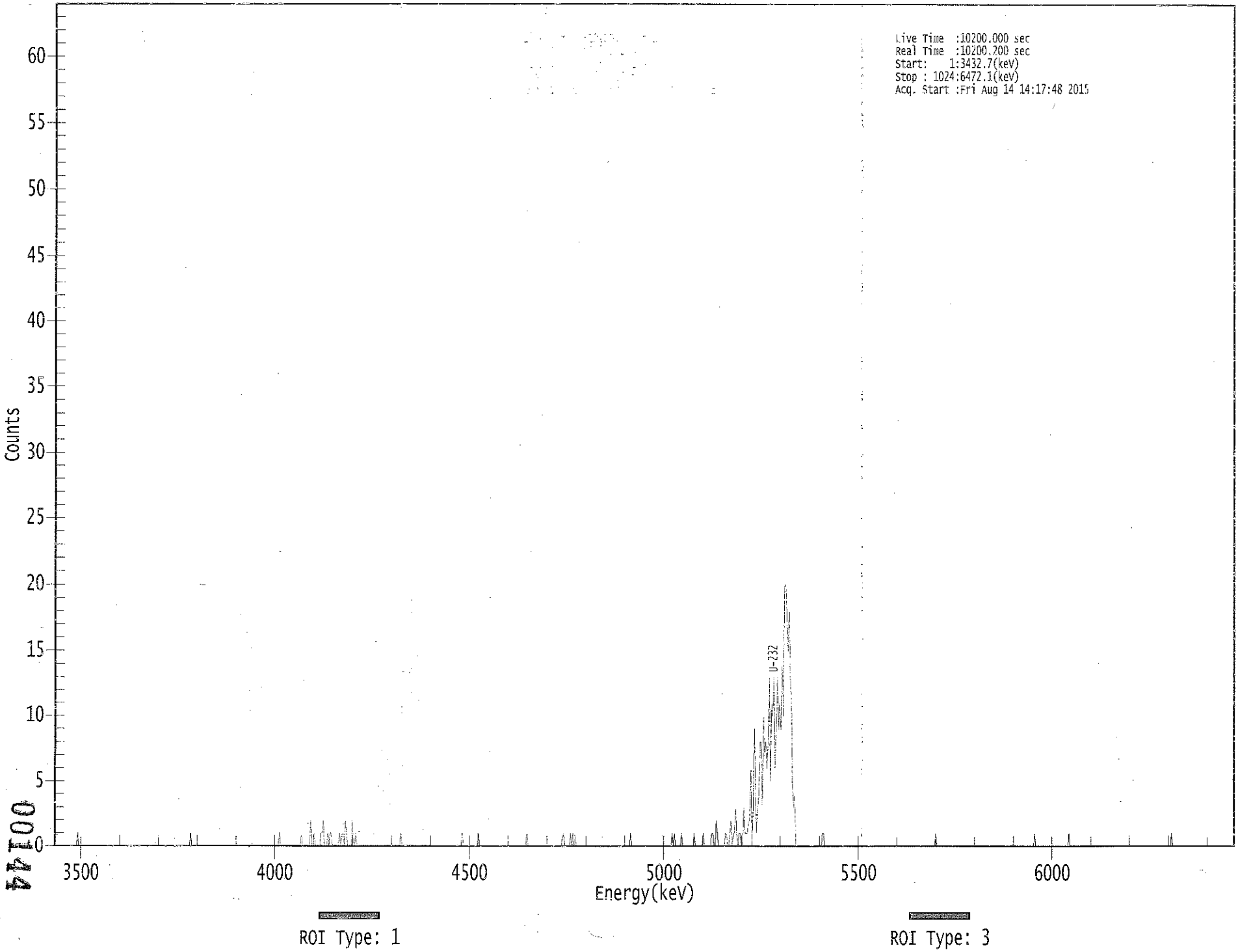
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	5.18E+000 +/- 5.79E-001	9.23E-002 +/- 1.03E-002
U-234	0.996	4761.50*	7.69E-002 +/- 6.83E-002	7.35E-002 +/- 8.21E-003
U-235	0.998	4385.50*	3.16E-002 +/- 4.84E-002	7.21E-002 +/- 8.05E-003
U-238	0.986	4184.40*	2.88E-001 +/- 1.30E-001	6.67E-002 +/- 7.45E-003

AG 8/17/15

0000126012.CNF



0144

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	1	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	1	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	1	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	1	0
217:	0	0	0	0	0	0	2	0
225:	0	1	0	0	0	0	0	1
233:	1	2	0	0	0	1	0	1
241:	1	0	0	0	0	0	0	1
249:	0	1	1	0	2	1	0	0
257:	0	0	2	0	0	1	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	1

369:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	1	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	1	1	0	0	0	0	0	1
449:	0	1	0	1	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	1	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	1
537:	0	1	0	0	0	0	0	1
545:	0	0	0	0	0	0	0	0
553:	0	0	1	0	0	0	0	0
561:	0	0	1	0	0	0	0	0
569:	0	1	1	0	0	2	1	0
577:	0	0	0	0	0	1	1	0
585:	0	1	2	0	1	1	3	1
593:	0	1	1	0	0	3	1	1
601:	1	2	2	6	0	3	9	4
609:	1	3	4	8	8	3	10	7
617:	8	6	8	13	5	11	10	13
625:	6	9	13	9	11	9	14	10
633:	20	20	18	15	18	13	11	5
641:	3	4	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	1	1	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	1	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	1
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	1	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

8/14/2015 6:47:28 AM

Apex-Alpha™

QA SUMMARY REPORT
Review Of QA Results - Pulser Check

Date : 8/14/2015
Time : 6:47:28 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	8/14/2015 5:00:48 AM
Alpha_004	21f	ALL	Passed	8/14/2015 5:00:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	8/14/2015 5:00:49 AM
Alpha_011	21f	ALL	Passed	8/14/2015 5:00:50 AM
Alpha_012	21f	ALL	Passed	8/14/2015 5:00:51 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	8/14/2015 5:00:52 AM
Alpha_015	21f	ALL	Passed	8/14/2015 5:00:53 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:54 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:57 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:58 AM
Alpha_037	Alpha Analyst100DC	Peak FWHM	Action	8/14/2015 5:01:00 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	8/14/2015 5:01:02 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:03 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:05 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:07 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:09 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:10 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:12 AM
Alpha_045	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:14 AM
Alpha_046	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:16 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:18 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:20 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:22 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:24 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:26 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:28 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:30 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:32 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:33 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:35 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:37 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:39 AM

Review of QA Results - Pulser Check

8/14/2015 6:47:28 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:41 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:43 AM

APPROVED BY: _____

APPROVAL DATE: 8/14

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

15-07182
ThISO
Run 1

Work Order	15-07182
Analysis Code	ThISO
Run	1
Date Received	7/30/2015
Lab Deadline	8/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/30/15 00:00	1.0000E+00
02	MBL	BLANK		07/30/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-5 063-064	40	07/20/15 14:28	1.0230E+00
04	DO	FEEBRIS1D-5 063-064	40	07/20/15 14:28	1.0230E+00
05	TRG	FEEBRIS1D-5 051-052	44	07/20/15 14:04	1.0220E+00
06	TRG	FEEBRIS1D-6 080-081	35	07/21/15 09:53	1.0780E+00
07	TRG	FEEBRIS1D-6 085-086	38	07/21/15 09:58	1.0420E+00
08	TRG	FEEBRIS1D-7 093-094	31	07/24/15 14:50	1.1240E+00
09	TRG	FEEBRIS1D-16 050-051	50	07/27/15 09:44	1.1960E+00
10	TRG	FEEBRIS1D-16 059-061	36	07/27/15 10:14	1.0340E+00
11	TRG	DUPLICATE 4	41	07/27/15 10:14	1.0820E+00

00152

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4511	10.1		0.00								
02	MBL	0.2290	5.1		0.00								
03	DUP	0.2322	5.2		0.00								
04	DO	0.2291	5.1		0.00								
05	TRG	0.2339	5.3		0.00								
06	TRG	0.2328	5.2		0.00								
07	TRG	0.2324	5.2		0.00								
08	TRG	0.2324	5.2		0.00								
09	TRG	0.2318	5.2		0.00								
10	TRG	0.2313	5.2		0.00								
11	TRG	0.2298	5.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			08/10/15 06:52	TSMITH				
02	MBL			08/10/15 06:52	TSMITH				
03	DUP			08/10/15 06:52	TSMITH				
04	DO	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				
05	TRG	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				
06	TRG	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				
07	TRG	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				
08	TRG	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				
09	TRG	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				
10	TRG	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				
11	TRG	07/31/15 07:20	KSALLINGS	08/10/15 06:52	TSMITH				

15-07182

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.62E+00	8.97E-01	8.98E-02	5.17E+00	108.70	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	6.68E-02	6.50E-02	8.01E-02					OK	OK
03	TH-228	DUP	FEEBRIS1D-5 063-064	pCi/g	1.20E-01	9.02E-02	8.97E-02				NA	OK	
04	TH-228	DO	FEEBRIS1D-5 063-064	pCi/g	1.05E-01	8.11E-02	9.27E-02					OK	
05	TH-228	TRG	FEEBRIS1D-5 051-052	pCi/g	2.41E-01	1.12E-01	6.18E-02					OK	
06	TH-228	TRG	FEEBRIS1D-6 080-081	pCi/g	2.85E-01	1.48E-01	1.34E-01					OK	
07	TH-228	TRG	FEEBRIS1D-6 085-086	pCi/g	2.46E-01	1.24E-01	7.37E-02					OK	
08	TH-228	TRG	FEEBRIS1D-7 093-094	pCi/g	2.99E-01	1.66E-01	1.40E-01					OK	
09	TH-228	TRG	FEEBRIS1D-16 050-051	pCi/g	3.35E-01	1.37E-01	8.01E-02					OK	
10	TH-228	TRG	FEEBRIS1D-16 059-061	pCi/g	6.10E-01	2.17E-01	1.12E-01					OK	
11	TH-228	TRG	DUPLICATE 4	pCi/g	1.61E-01	1.83E-01	2.81E-01					INV	

00155

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	07/30/15 00:00	1.00E+00	100.21	0.00	0.00			
02	TH-228	MBL	07/30/15 00:00	1.00E+00	106.02	0.00	0.00			
03	TH-228	DUP	07/20/15 14:28	1.02E+00	102.13	0.00	0.00			
04	TH-228	DO	07/20/15 14:28	1.02E+00	105.25	0.00	0.00			
05	TH-228	TRG	07/20/15 14:04	1.02E+00	122.93	0.00	0.00			
06	TH-228	TRG	07/21/15 09:53	1.08E+00	94.34	0.00	0.00			
07	TH-228	TRG	07/21/15 09:58	1.04E+00	112.30	0.00	0.00			
08	TH-228	TRG	07/24/15 14:50	1.12E+00	76.31	0.00	0.00			
09	TH-228	TRG	07/27/15 09:44	1.20E+00	126.51	0.00	0.00			
10	TH-228	TRG	07/27/15 10:14	1.03E+00	123.19	0.00	0.00			
11	TH-228	TRG	07/27/15 10:14	1.08E+00	58.53	0.00	0.00			

00156

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07182

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff	A to B, Cor
01	TH-228	LCS	08/13/15 11:22		A_Spec	Alpha_040	170	3.94 E+02	6.00 E-03	18.6	
02	TH-228	MBL	08/13/15 11:22		A_Spec	Alpha_041	170	5.00 E+00	0.00 E+00	18.7	
03	TH-228	DUP	08/13/15 11:22		A_Spec	Alpha_042	170	8.00 E+00	0.00 E+00	17.4	
04	TH-228	DO	08/13/15 11:22		A_Spec	Alpha_043	170	8.30 E+00	1.00 E-02	20	
05	TH-228	TRG	08/13/15 11:23		A_Spec	Alpha_044	170	2.05 E+01	3.00 E-03	18.4	
06	TH-228	TRG	08/13/15 11:23		A_Spec	Alpha_046	170	1.89 E+01	1.80 E-02	17.8	
07	TH-228	TRG	08/13/15 11:23		A_Spec	Alpha_047	170	1.75 E+01	3.00 E-03	16.5	
08	TH-228	TRG	08/13/15 11:23		A_Spec	Alpha_048	170	1.61 E+01	1.10 E-02	17	
09	TH-228	TRG	08/13/15 11:23		A_Spec	Alpha_049	170	2.86 E+01	8.00 E-03	15.3	
10	TH-228	TRG	08/13/15 11:23		A_Spec	Alpha_050	170	4.11 E+01	1.10 E-02	14.3	
11	TH-228	TRG	08/13/15 11:23		A_Spec	Alpha_051	170	5.75 E+00	2.50 E-02	15.2	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	5.86E+00	9.29E-01	5.96E-02	5.46E+00	107.44	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	1.07E-01	9.00E-02	1.17E-01					OK	OK
03	TH-230	DUP	FEEBRIS1D-5 063-064	pCi/g	4.53E-01	1.79E-01	8.77E-02				NA	OK	
04	TH-230	DO	FEEBRIS1D-5 063-064	pCi/g	3.86E-01	1.50E-01	6.96E-02					OK	
05	TH-230	TRG	FEEBRIS1D-5 051-052	pCi/g	2.16E+02	3.28E+01	4.80E-02					OK	
06	TH-230	TRG	FEEBRIS1D-6 080-081	pCi/g	4.15E-01	1.80E-01	1.41E-01					OK	
07	TH-230	TRG	FEEBRIS1D-6 085-086	pCi/g	5.02E-01	1.84E-01	7.21E-02					OK	
08	TH-230	TRG	FEEBRIS1D-7 093-094	pCi/g	1.80E+01	3.66E+00	9.55E-02					OK	
09	TH-230	TRG	FEEBRIS1D-16 050-051	pCi/g	9.71E+02	1.58E+02	5.50E-02					OK	
10	TH-230	TRG	FEEBRIS1D-16 059-061	pCi/g	6.08E-01	2.12E-01	6.98E-02					OK	
11	TH-230	TRG	DUPLICATE 4	pCi/g	3.70E-01	2.35E-01	2.31E-01					INV	

85700 0158

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07182

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	07/30/15 00:00	1.00E+00	100.21	0.00	0.00			
02	TH-230	MBL	07/30/15 00:00	1.00E+00	106.02	0.00	0.00			
03	TH-230	DUP	07/20/15 14:28	1.02E+00	102.13	0.00	0.00			
04	TH-230	DO	07/20/15 14:28	1.02E+00	105.25	0.00	0.00			
05	TH-230	TRG	07/20/15 14:04	1.02E+00	122.93	0.00	0.00			
06	TH-230	TRG	07/21/15 09:53	1.08E+00	94.34	0.00	0.00			
07	TH-230	TRG	07/21/15 09:58	1.04E+00	112.30	0.00	0.00			
08	TH-230	TRG	07/24/15 14:50	1.12E+00	76.31	0.00	0.00			
09	TH-230	TRG	07/27/15 09:44	1.20E+00	126.51	0.00	0.00			
10	TH-230	TRG	07/27/15 10:14	1.03E+00	123.19	0.00	0.00			
11	TH-230	TRG	07/27/15 10:14	1.08E+00	58.53	0.00	0.00			

659100

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff	A to B, Cor
01	TH-230	LCS	08/13/15 11:22		A_Spec	Alpha_040	170	4.11 E+02	1.00 E-03	18.6	
02	TH-230	MBL	08/13/15 11:22		A_Spec	Alpha_041	170	7.97 E+00	1.19 E-02	18.7	
03	TH-230	DUP	08/13/15 11:22		A_Spec	Alpha_042	170	3.10 E+01	0.00 E+00	17.4	
04	TH-230	DO	08/13/15 11:22		A_Spec	Alpha_043	170	3.13 E+01	4.00 E-03	20	
05	TH-230	TRG	08/13/15 11:23		A_Spec	Alpha_044	170	1.88 E+04	1.00 E-03	18.4	
06	TH-230	TRG	08/13/15 11:23		A_Spec	Alpha_046	170	2.83 E+01	2.20 E-02	17.8	
07	TH-230	TRG	08/13/15 11:23		A_Spec	Alpha_047	170	3.65 E+01	3.00 E-03	16.5	
08	TH-230	TRG	08/13/15 11:23		A_Spec	Alpha_048	170	9.90 E+02	3.00 E-03	17	
09	TH-230	TRG	08/13/15 11:23		A_Spec	Alpha_049	170	8.45 E+04	2.00 E-03	15.3	
10	TH-230	TRG	08/13/15 11:23		A_Spec	Alpha_050	170	4.17 E+01	2.00 E-03	14.3	
11	TH-230	TRG	08/13/15 11:23		A_Spec	Alpha_051	170	1.34 E+01	1.50 E-02	15.2	

09100

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	5.71E+00	9.08E-01	6.81E-02	5.17E+00	110.45	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	8.40E-02	8.71E-02	1.30E-01					OK	OK
03	TH-232	DUP	FEEBRIS1D-5 063-064	pCi/g	1.95E-01	1.14E-01	9.06E-02				NA	OK	
04	TH-232	DO	FEEBRIS1D-5 063-064	pCi/g	4.72E-02	4.90E-02	5.14E-02					OK	
05	TH-232	TRG	FEEBRIS1D-5 051-052	pCi/g	1.94E+00	4.15E-01	6.48E-02					OK	
06	TH-232	TRG	FEEBRIS1D-6 080-081	pCi/g	3.14E-01	1.55E-01	1.38E-01					OK	
07	TH-232	TRG	FEEBRIS1D-6 085-086	pCi/g	1.85E-01	1.05E-01	7.20E-02					OK	
08	TH-232	TRG	FEEBRIS1D-7 093-094	pCi/g	3.78E-01	1.83E-01	1.20E-01					OK	
09	TH-232	TRG	FEEBRIS1D-16 050-051	pCi/g	6.45E+00	1.18E+00	6.87E-02					OK	
10	TH-232	TRG	FEEBRIS1D-16 059-061	pCi/g	2.84E-01	1.37E-01	7.65E-02					OK	
11	TH-232	TRG	DUPLICATE 4	pCi/g	2.65E-01	1.82E-01	1.31E-01					OK	

T9T00

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	07/30/15 00:00	1.00E+00	100.21	0.00	0.00			
02	TH-232	MBL	07/30/15 00:00	1.00E+00	106.02	0.00	0.00			
03	TH-232	DUP	07/20/15 14:28	1.02E+00	102.13	0.00	0.00			
04	TH-232	DO	07/20/15 14:28	1.02E+00	105.25	0.00	0.00			
05	TH-232	TRG	07/20/15 14:04	1.02E+00	122.93	0.00	0.00			
06	TH-232	TRG	07/21/15 09:53	1.08E+00	94.34	0.00	0.00			
07	TH-232	TRG	07/21/15 09:58	1.04E+00	112.30	0.00	0.00			
08	TH-232	TRG	07/24/15 14:50	1.12E+00	76.31	0.00	0.00			
09	TH-232	TRG	07/27/15 09:44	1.20E+00	126.51	0.00	0.00			
10	TH-232	TRG	07/27/15 10:14	1.03E+00	123.19	0.00	0.00			
11	TH-232	TRG	07/27/15 10:14	1.08E+00	58.53	0.00	0.00			

29100

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07182

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff	A to B, Cor
01	TH-232	LCS	08/13/15 11:22		A_Spec	Alpha_040	170	4.01 E+02	2.00 E-03	18.6	
02	TH-232	MBL	08/13/15 11:22		A_Spec	Alpha_041	170	6.30 E+00	1.59 E-02	18.7	
03	TH-232	DUP	08/13/15 11:22		A_Spec	Alpha_042	170	1.33 E+01	3.97 E-03	17.4	
04	TH-232	DO	08/13/15 11:22		A_Spec	Alpha_043	170	3.83 E+00	1.00 E-03	20	
05	TH-232	TRG	08/13/15 11:23		A_Spec	Alpha_044	170	1.69 E+02	4.00 E-03	18.4	
06	TH-232	TRG	08/13/15 11:23		A_Spec	Alpha_046	170	2.14 E+01	2.10 E-02	17.8	
07	TH-232	TRG	08/13/15 11:23		A_Spec	Alpha_047	170	1.35 E+01	3.00 E-03	16.5	
08	TH-232	TRG	08/13/15 11:23		A_Spec	Alpha_048	170	2.08 E+01	7.00 E-03	17	
09	TH-232	TRG	08/13/15 11:23		A_Spec	Alpha_049	170	5.62 E+02	5.00 E-03	15.3	
10	TH-232	TRG	08/13/15 11:23		A_Spec	Alpha_050	170	1.95 E+01	3.00 E-03	14.3	
11	TH-232	TRG	08/13/15 11:23		A_Spec	Alpha_051	170	9.66 E+00	2.00 E-03	15.2	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-07182
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	8.88E-03	4.58E-02	1.05E-01					OK	OK
03	TH-227	DUP	FEEBRIS1D-5 063-064	pCi/g	4.99E-02	6.26E-02	9.31E-02				NA	OK	
04	TH-227	DO	FEEBRIS1D-5 063-064	pCi/g	9.67E-02	7.69E-02	8.68E-02					OK	
05	TH-227	TRG	FEEBRIS1D-5 051-052	pCi/g	1.93E+00	4.16E-01	5.64E-02					OK	
06	TH-227	TRG	FEEBRIS1D-6 080-081	pCi/g	2.99E-02	5.29E-02	9.50E-02					OK	
07	TH-227	TRG	FEEBRIS1D-6 085-086	pCi/g	8.22E-02	6.92E-02	5.88E-02					OK	
08	TH-227	TRG	FEEBRIS1D-7 093-094	pCi/g	1.83E-01	1.21E-01	7.79E-02					OK	
09	TH-227	TRG	FEEBRIS1D-16 050-051	pCi/g	8.95E+00	1.59E+00	5.64E-02					OK	
10	TH-227	TRG	FEEBRIS1D-16 059-061	pCi/g	3.22E-02	5.23E-02	8.96E-02					OK	
11	TH-227	TRG	DUPLICATE 4	pCi/g	2.71E-02	1.01E-01	2.20E-01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-07182

Analysis Code: ThISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	07/30/15 00:00	1.00E+00	106.02	0.00	0.00			
03	TH-227	DUP	07/20/15 14:28	1.02E+00	102.13	0.00	0.00			
04	TH-227	DO	07/20/15 14:28	1.02E+00	105.25	0.00	0.00			
05	TH-227	TRG	07/20/15 14:04	1.02E+00	122.93	0.00	0.00			
06	TH-227	TRG	07/21/15 09:53	1.08E+00	94.34	0.00	0.00			
07	TH-227	TRG	07/21/15 09:58	1.04E+00	112.30	0.00	0.00			
08	TH-227	TRG	07/24/15 14:50	1.12E+00	76.31	0.00	0.00			
09	TH-227	TRG	07/27/15 09:44	1.20E+00	126.51	0.00	0.00			
10	TH-227	TRG	07/27/15 10:14	1.03E+00	123.19	0.00	0.00			
11	TH-227	TRG	07/27/15 10:14	1.08E+00	58.53	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-07182-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-07182
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Defect	Carrier	Count Time	Counts	Bkg CPM	Eff	A to B, Cor
02	TH-227	MBL	08/13/15 11:22		A_Spec	Alpha_041	170	6.49 E-01	7.95 E-03	18.7	
03	TH-227	DUP	08/13/15 11:22		A_Spec	Alpha_042	170	3.32 E+00	3.97 E-03	17.4	
04	TH-227	DO	08/13/15 11:22		A_Spec	Alpha_043	170	7.64 E+00	8.00 E-03	20	
05	TH-227	TRG	08/13/15 11:23		A_Spec	Alpha_044	170	1.64 E+02	2.00 E-03	18.4	
06	TH-227	TRG	08/13/15 11:23		A_Spec	Alpha_046	170	1.98 E+00	6.00 E-03	17.8	
07	TH-227	TRG	08/13/15 11:23		A_Spec	Alpha_047	170	5.83 E+00	1.00 E-03	16.5	
08	TH-227	TRG	08/13/15 11:23		A_Spec	Alpha_048	170	9.83 E+00	1.00 E-03	17	
09	TH-227	TRG	08/13/15 11:23		A_Spec	Alpha_049	170	7.59 E+02	2.00 E-03	15.3	
10	TH-227	TRG	08/13/15 11:23		A_Spec	Alpha_050	170	2.15 E+00	5.00 E-03	14.3	
11	TH-227	TRG	08/13/15 11:23		A_Spec	Alpha_051	170	9.60 E-01	1.20 E-02	15.2	

99100 0166

Count Room Report
Client: AMO Environmental Decisio

15-07182-ThISO-1 (pCi/g) in SO
Tracer ID: Th-18a

40-51

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/30/15 00:00	1.0000	0.4511	10.1317		0.00		
02	MBL	BLANK	07/30/15 00:00	1.0000	0.2290	5.1433		0.00		
03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	1.0230	0.2322	5.2152		0.00		
04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	1.0230	0.2291	5.1456		0.00		
05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	1.0220	0.2339	5.2534		0.00		
06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	1.0780	0.2328	5.2287		0.00		
07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	1.0420	0.2324	5.2197		0.00		
08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	1.1240	0.2324	5.2197		0.00		
09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	1.1960	0.2318	5.2062		0.00		
10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	1.0340	0.2313	5.1950		0.00		
11	TRG	DUPLICATE 4	07/27/15 10:14	1.0820	0.2298	5.1613		0.00		

00167

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-07182	1	ThISO	8/10/2015 6:39	TSMITH	SM	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	*Sol #*	*Activity dpm/g*	*Solution Date*	*Approx Addition*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*
Th-228	Th-8b	103.560	8/10/2015	**0.100**	**0.1108**				5.17	0.186	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	8/10/2015	**0.500**	**0.5152**				5.46	0.147	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	8/10/2015	**0.100**	**0.1108**				5.17	0.186	0.00	0.000	0.00	0.000	0.00	0.000
Tc-99 MS	Tc-2a	22043.636	7/5/2014	0.1												

Tracers

fraction	*Isotope*	*Sol #*	*Activity dpm/g*	*Solution Date*	*Volume Used (g)*	*Approx Addition*
01	**Th-229**	Th-18a	22.460	8/10/2015	**0.4511**	**0.2200**
02	**Th-229**	Th-18a	22.460	8/10/2015	**0.2290**	**0.2200**
03	**Th-229**	Th-18a	22.460	8/10/2015	**0.2322**	**0.2200**
04	**Th-229**	Th-18a	22.460	8/10/2015	**0.2291**	**0.2200**
05	**Th-229**	Th-18a	22.460	8/10/2015	**0.2339**	**0.2200**
06	**Th-229**	Th-18a	22.460	8/10/2015	**0.2328**	**0.2200**
07	**Th-229**	Th-18a	22.460	8/10/2015	**0.2324**	**0.2200**
08	**Th-229**	Th-18a	22.460	8/10/2015	**0.2324**	**0.2200**
09	**Th-229**	Th-18a	22.460	8/10/2015	**0.2318**	**0.2200**
10	**Th-229**	Th-18a	22.460	8/10/2015	**0.2313**	**0.2200**
11	**Th-229**	Th-18a	22.460	8/10/2015	**0.2298**	**0.2200**

Balance Printer Tapes

Tracer

LCS

Matrix Spike

00168

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/10/2015 8:40 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07182	1	ThISO	grams	8/21/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-5 063-064	DUP		1	9.78	1.02E-01	1.0000E+01	1.0230E+00				
04	FEEBRIS1D-5 063-064	DO		1	9.78	1.02E-01	1.0000E+01	1.0230E+00				
05	FEEBRIS1D-5 051-052	TRG		1	19.57	5.11E-02	2.0000E+01	1.0220E+00				
06	FEEBRIS1D-6 080-081	TRG		1	18.55	5.39E-02	2.0000E+01	1.0780E+00				
07	FEEBRIS1D-6 085-086	TRG		1	19.19	5.21E-02	2.0000E+01	1.0420E+00				
08	FEEBRIS1D-7 093-094	TRG		1	17.79	5.62E-02	2.0000E+01	1.1240E+00				
09	FEEBRIS1D-16 050-051	TRG		1	16.72	5.98E-02	2.0000E+01	1.1960E+00				
10	FEEBRIS1D-16 059-061	TRG		1	19.34	5.17E-02	2.0000E+01	1.0340E+00				
11	DUPLICATE 4	TRG		1	18.48	5.41E-02	2.0000E+01	1.0820E+00				

Comments	

00169

Technician: JWolfe Date: 8/10/15

EBERLINE SERVICES

	Internal Work Order	15-07182
	Fraction	**> 03 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10.23**	ml	from the original sample and diluted it to	**100**	ml	0.1023
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1023**
Dilution Factor	**9.775171065**

00170

Diluted by: JK Date: 8/10/15

EBERLINE SERVICES

	Internal Work Order	15-07182
	Fraction	**> 04 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**10.23**	ml	from the original sample and diluted it to	**100**	ml	0.1023
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.1023**
Dilution Factor	**9.775171065**

00171

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES	Internal Work Order	15-07182
	Fraction	> 05 <
Dilution Worksheet	Analysis Code	ThISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.11**	ml	from the original sample and diluted it to	**100**	ml	0.0511
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0511**
Dilution Factor	**19.56947162**

00172

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07182
	Fraction	**> 06 <**
	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.39**	ml	from the original sample and diluted it to	**100**	ml	0.0539
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0539**
Dilution Factor	**18.5528757**

00173

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07182
	Fraction	**> 07 <**
	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.21**	ml	from the original sample and diluted it to	**100**	ml	0.0521
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0521**
Dilution Factor	**19.19385797**

00174

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

	Internal Work Order	15-07182
	Fraction	**> 08 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.62**	ml	from the original sample and diluted it to	**100**	ml	0.0562
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0562**
Dilution Factor	**17.79359431**

00175

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-07182
	Fraction	**> 09 <**
	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.98**	ml	from the original sample and diluted it to	**100**	ml	0.0598
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0598**
Dilution Factor	**16.72240803**

00176

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

	Internal Work Order	15-07182
	Fraction	**> 10 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.17**	ml	from the original sample and diluted it to	**100**	ml	0.0517
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0517**
Dilution Factor	**19.34235977**

44100177

Diluted by: JW Date: 8/10/15

EBERLINE SERVICES

Dilution Worksheet

Internal Work Order	15-07182
Fraction	**> 11 <**
Analysis Code	**ThISO**
Run Number	**1**
Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**5.41**	ml	from the original sample and diluted it to	**100**	ml	0.0541
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0541**
Dilution Factor	**18.48428835**

00178

Diluted by: JW Date: 8/10/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/31/2015 7:20 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07182	8/21/2015	7/30/2015	7/31/2015	8/1/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-5 063-064	29.2700	1123.9200	777.3600	1094.6500	748.0900	31.66%	68.34%	0.0000	0.0000	
05	FEEBRIS1D-5 051-052	29.3100	1091.9200	686.1800	1062.6100	656.8700	38.18%	61.82%	0.0000	0.0000	
06	FEEBRIS1D-6 080-081	29.4000	1125.0400	767.9300	1095.6400	738.5300	32.59%	67.41%	0.0000	0.0000	
07	FEEBRIS1D-6 085-086	29.4200	1233.7000	1004.0000	1204.2800	974.5800	19.07%	80.93%	0.0000	0.0000	
08	FEEBRIS1D-7 093-094	29.1500	1073.4800	879.2200	1044.3300	850.0700	18.60%	81.40%	0.0000	0.0000	
09	FEEBRIS1D-16 050-051	29.1900	1349.3000	972.3000	1320.1100	943.1100	28.56%	71.44%	0.0000	0.0000	
10	FEEBRIS1D-16 059-061	29.3300	1553.6600	1241.9600	1524.3300	1212.6300	20.45%	79.55%	0.0000	0.0000	
11	DUPLICATE 4	29.3400	1200.8000	972.0200	1171.4600	942.6800	19.53%	80.47%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

00179

Technician: Kenyseel

Date: **Analysis: Rough Prep Logbook**

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-07182	grams	8/21/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-5 063-064	111.7500	121.9800		10.2300		
05	FEEBRIS1D-5 051-052	108.7900	113.9000		5.1100		
06	FEEBRIS1D-6 080-081	113.3900	118.7800		5.3900		
07	FEEBRIS1D-6 085-086	112.5700	117.7800		5.2100		
08	FEEBRIS1D-7 093-094	105.0200	110.6400		5.6200		
09	FEEBRIS1D-16 050-051	102.9200	108.9000		5.9800		
10	FEEBRIS1D-16 059-061	106.2800	111.4500		5.1700		
11	DUPLICATE 4	102.0400	107.4500		5.4100		

Comments

00180

Technician: Kenny Sallings Date: 7/31/15

Analysis: ThISO

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 125654
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/13/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:22:52 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.451 mL
Effective Efficiency: 0.1860 +/- 0.0119
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 1.0021 +/- 0.0664

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 1.104499 +/- 0.095582
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.834	11.49	59.30	0.51	0.00E+000	3.0
TH-228		5.349	393.98	9.89	1.02	0.00E+000	4.2
TH-229	T	4.864	320.32	10.96	0.68	0.00E+000	15.0
TH-230		4.634	410.83	9.67	0.17	0.00E+000	13.0
TH-232		3.940	400.66	9.80	0.34	0.00E+000	32.2

T = Tracer Peak used for Effective Efficiency

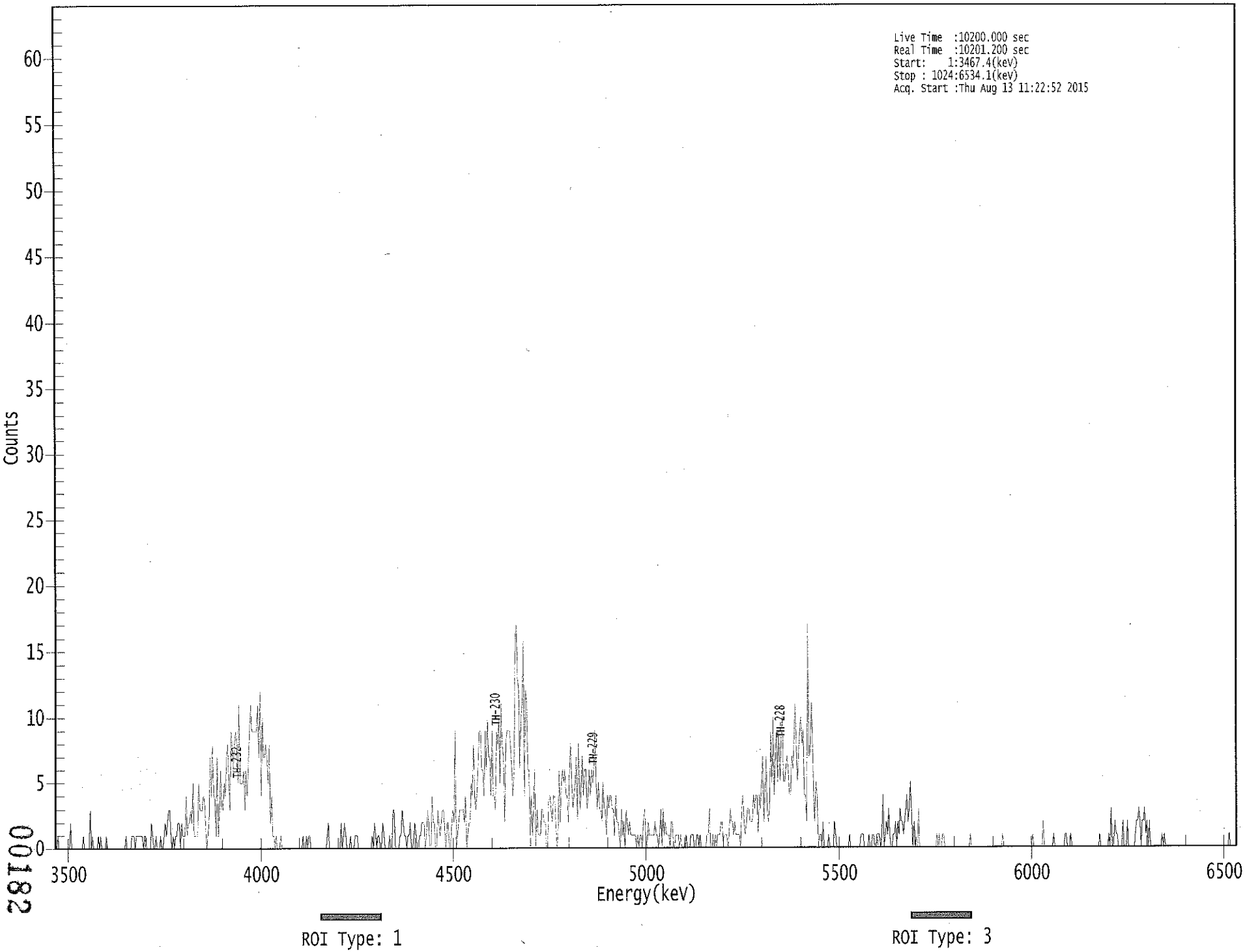
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	1.68E-001 +/- 1.02E-001	7.67E-002 +/- 9.61E-003
TH-228	0.986	5400.00*	5.62E+000 +/- 8.97E-001	8.98E-002 +/- 1.13E-002
TH-229	1.000	4872.00*	4.59E+000 +/- 5.75E-001	8.08E-002 +/- 1.01E-002
TH-230	0.992	4672.00*	5.86E+000 +/- 9.29E-001	5.96E-002 +/- 7.47E-003
TH-232	0.983	3997.00*	5.71E+000 +/- 9.08E-001	6.81E-002 +/- 8.54E-003

AG
8/13/15

00181

0000125818.CNF



00182

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	1	0	0	0	0	0
9:	0	0	0	0	0	2	0	0
17:	0	0	0	0	0	0	0	0
25:	1	0	0	0	0	0	3	0
33:	1	0	0	0	0	1	0	1
41:	0	0	0	0	1	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	1	0	0
65:	0	0	1	1	1	0	1	1
73:	1	1	1	1	0	1	1	0
81:	0	0	0	2	1	0	0	1
89:	0	0	0	1	0	0	1	2
97:	1	2	3	3	1	0	1	0
105:	1	1	2	2	0	2	1	1
113:	1	4	1	2	2	3	2	5
121:	1	1	1	1	5	3	3	3
129:	4	4	2	0	1	2	7	4
137:	8	4	4	1	7	1	3	6
145:	3	3	5	4	7	8	5	3
153:	9	8	6	8	9	8	5	11
161:	5	5	5	6	3	6	4	6
169:	9	11	9	9	9	9	9	11
177:	7	12	4	10	7	7	8	7
185:	5	8	2	4	1	1	0	1
193:	0	0	0	1	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	1	0
217:	0	1	0	1	1	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	1	2	0	0	0
241:	0	0	0	0	0	0	0	2
249:	0	1	2	1	0	0	0	1
257:	0	0	0	1	1	1	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	1	0	2	1	0	1
281:	1	0	0	2	1	0	0	0
289:	0	1	0	0	3	3	0	0
297:	0	0	1	1	3	2	1	1
305:	0	1	1	2	0	0	1	2
313:	1	0	0	1	1	2	2	2
321:	0	1	3	2	0	0	4	2
329:	2	0	0	3	2	1	2	3
337:	3	1	0	2	2	0	0	2
345:	3	2	9	0	1	2	3	3
353:	3	3	2	4	0	1	2	2
361:	5	4	8	4	3	4	7	9

00183

369:	9	6	6	4	9	6	10	7

Sample Title: 01

Channel								
377:	7	4	9	4	4	3	9	8
385:	10	5	11	8	7	2	8	9
393:	9	9	8	6	4	6	16	17
401:	13	12	6	10	11	16	4	12
409:	11	6	6	1	4	1	3	6
417:	0	3	1	1	1	3	3	2
425:	2	0	0	4	4	3	2	4
433:	4	2	0	1	6	2	5	6
441:	5	6	4	4	2	6	8	5
449:	3	4	5	7	2	8	3	4
457:	7	4	6	6	3	4	6	4
465:	6	5	6	9	5	3	5	3
473:	3	2	5	3	3	1	4	3
481:	4	4	3	3	1	4	2	2
489:	1	0	3	1	2	0	3	2
497:	1	2	1	1	1	1	1	0
505:	1	0	1	1	0	2	3	1
513:	0	2	1	1	1	1	1	2
521:	1	1	0	1	3	0	3	1
529:	2	1	1	1	0	2	2	0
537:	0	1	1	1	0	1	0	0
545:	0	0	1	0	0	0	1	1
553:	1	0	0	1	1	0	1	0
561:	0	0	0	0	1	1	3	0
569:	0	1	0	1	0	1	1	1
577:	2	2	0	1	1	1	0	1
585:	3	2	2	1	2	1	1	1
593:	1	0	3	4	2	1	2	3
601:	3	2	2	2	4	3	4	4
609:	1	4	3	5	7	2	4	7
617:	3	2	3	9	5	10	4	7
625:	9	5	9	5	8	10	5	5
633:	6	7	6	4	4	7	6	8
641:	11	8	5	7	9	10	8	9
649:	4	4	2	17	7	7	11	9
657:	4	2	5	4	0	1	1	0
665:	2	0	0	0	0	1	0	0
673:	0	0	2	1	0	0	0	0
681:	0	0	0	0	0	0	0	1
689:	0	0	0	0	0	0	0	0
697:	0	1	1	1	0	0	0	0
705:	1	0	0	1	1	0	0	1
713:	1	1	0	1	4	0	1	2
721:	1	3	1	0	0	1	1	2
729:	0	2	1	3	2	2	1	2
737:	3	4	2	3	5	2	0	2
745:	0	0	0	3	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	1	0	1	0	0
769:	1	1	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	1	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	1	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	1	0
849:	0	0	0	0	0	0	0	2
857:	0	0	0	0	0	0	0	0
865:	1	0	0	0	0	0	0	0
873:	0	0	1	1	0	0	0	1
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	1	0	0	0	0	0	0	0
913:	1	0	3	0	0	2	1	1
921:	0	0	0	0	2	0	0	0
929:	2	0	0	0	0	0	0	1
937:	2	2	3	2	0	2	2	3
945:	1	2	0	2	0	0	0	0
953:	0	0	0	0	0	0	1	0
961:	1	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	1	0	0	0	0	0	0	0

Apex-Alpha™

KB 9/13/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 125655
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/13/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:22:54 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.229 mL
Effective Efficiency: 0.1986 +/- 0.0164
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 1.0602 +/- 0.0893

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.764	0.65	515.40	1.35	0.00E+000	3.0
TH-228		5.297	5.00	96.02	0.00	0.00E+000	3.0
TH-229	T	4.879	173.65	14.97	1.35	0.00E+000	6.0
TH-230		4.641	7.97	82.88	2.03	0.00E+000	3.0
TH-232		3.977	6.30	102.39	2.70	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

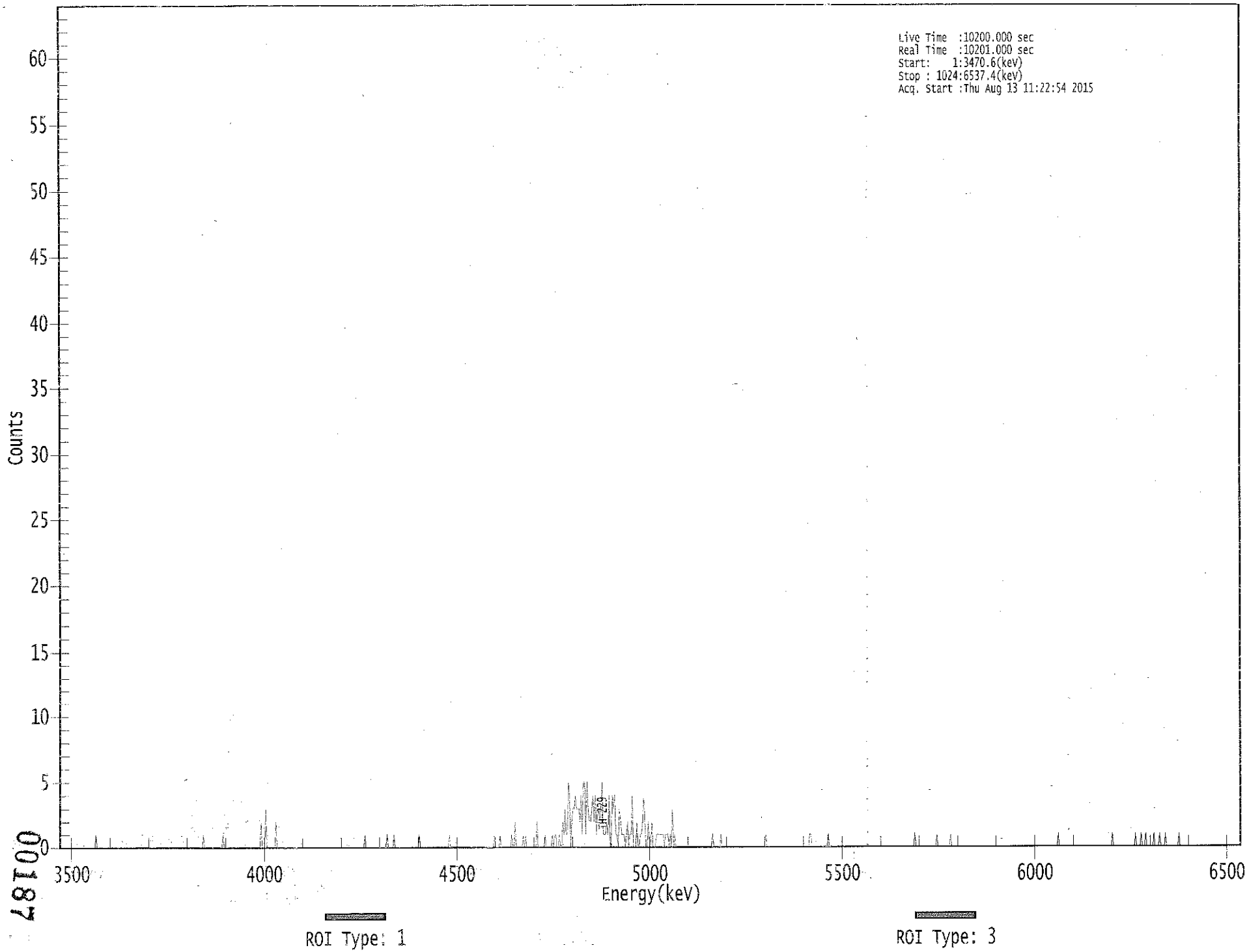
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.962	5850.00*	8.88E-003 +/- 4.58E-002	1.05E-001 +/- 1.69E-002
TH-228	0.947	5400.00*	6.68E-002 +/- 6.50E-002	8.01E-002 +/- 1.29E-002
TH-229	1.000	4872.00*	2.33E+000 +/- 3.76E-001	1.03E-001 +/- 1.66E-002
TH-230	0.995	4672.00*	1.07E-001 +/- 9.00E-002	1.17E-001 +/- 1.89E-002
TH-232	0.998	3997.00*	8.40E-002 +/- 8.71E-002	1.30E-001 +/- 2.09E-002

AG 8/13/15

00186

0000125819.CNF



00187

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	1
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	1	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	1	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	2	0
177:	0	0	3	0	0	0	0	0
185:	0	0	0	2	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	1	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	1	0	0	0	0
289:	0	1	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	1
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	1	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	1	0	0	0	0	1	0	0
385:	0	0	0	0	0	0	0	1
393:	0	0	2	0	0	0	0	0
401:	0	1	0	1	0	0	0	0
409:	0	0	0	0	0	2	0	0
417:	0	0	0	0	1	0	0	0
425:	0	0	1	0	1	1	0	0
433:	1	0	0	2	1	3	1	1
441:	5	4	0	2	3	3	4	3
449:	3	3	2	4	1	5	5	1
457:	5	3	2	2	3	4	2	4
465:	1	3	3	2	3	5	1	1
473:	1	2	1	4	0	1	4	3
481:	4	1	1	0	3	2	1	1
489:	1	0	1	2	0	1	1	4
497:	0	0	0	2	0	0	1	1
505:	2	4	2	0	0	2	0	0
513:	2	0	0	0	1	1	1	1
521:	1	1	1	0	1	1	1	0
529:	1	0	3	0	1	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	1	0	0
569:	0	0	0	0	1	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	1	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	1	1	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	1	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	1	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	1
761:	0	0	0	0	0	0	0	0
769:	0	0	0	1	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	1	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	1
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	1	0	0	0	0
937:	1	0	0	0	1	0	0	0
945:	0	0	0	1	0	0	0	0
953:	1	0	0	0	0	1	0	0
961:	0	0	0	0	0	0	0	0
969:	0	1	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

ICB 9/13/15

Sample Description: FEEBRIS1D-5 063-064-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 125656
Reagent Blank: <not performed>

Sample Size: 1.023E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/20/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:22:56 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1774 +/- 0.0152
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 1.0213 +/- 0.0894

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.807	3.32	124.46	0.68	0.00E+000	3.0
TH-228		5.295	8.00	73.50	0.00	0.00E+000	3.0
TH-229	T	4.880	157.32	15.68	0.68	0.00E+000	3.3
TH-230		4.611	31.00	35.77	0.00	0.00E+000	4.5
TH-232		3.974	13.32	55.93	0.68	0.00E+000	3.0

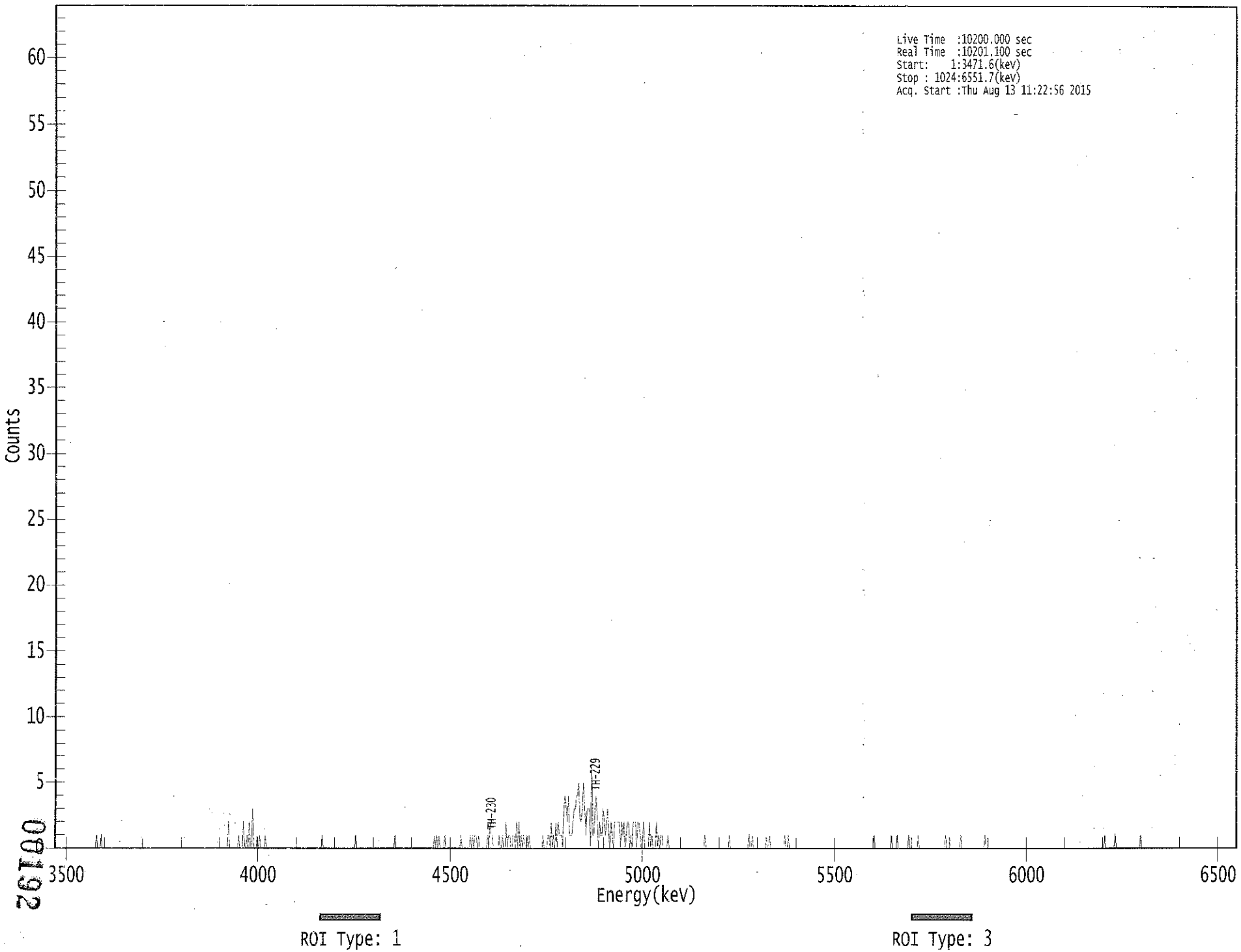
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.990	5850.00*	4.99E-002 +/- 6.26E-002	9.31E-002 +/- 1.57E-002
TH-228	0.944	5400.00*	1.20E-001 +/- 9.02E-002	8.97E-002 +/- 1.51E-002
TH-229	1.000	4872.00*	2.31E+000 +/- 3.88E-001	9.10E-002 +/- 1.53E-002
TH-230	0.980	4672.00*	4.53E-001 +/- 1.79E-001	8.77E-002 +/- 1.47E-002
TH-232	0.997	3997.00*	1.95E-001 +/- 1.14E-001	9.06E-002 +/- 1.52E-002

AG 8/13/15

0000125820.CNF



00192

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	1	0	0	0
41:	1	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	2	0
153:	0	0	0	0	0	0	0	1
161:	0	0	0	2	0	0	1	0
169:	2	0	0	3	0	0	0	1
177:	0	1	0	0	0	0	1	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	1
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	1	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	1	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	1	0	1	0	1	0	0	0
337:	0	1	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	1
353:	0	0	0	0	0	0	0	1
361:	0	1	0	1	1	0	1	0

369:	0	0	0	0	0	0	1	0

Sample Title: 03

Channel								
377:	2	1	1	0	0	0	0	0
385:	1	0	0	1	0	0	2	0
393:	1	1	0	0	1	1	0	2
401:	0	2	0	1	0	1	0	0
409:	1	0	1	0	0	0	0	0
417:	0	0	0	0	0	0	1	0
425:	0	0	1	1	0	2	0	1
433:	0	2	0	2	1	1	1	0
441:	3	4	3	2	4	1	1	1
449:	2	3	3	4	4	5	2	2
457:	3	5	3	1	3	3	3	0
465:	7	1	1	3	4	2	0	2
473:	1	1	3	2	1	2	3	1
481:	0	2	1	0	2	2	2	2
489:	2	0	2	1	2	0	1	2
497:	2	0	1	0	2	2	2	0
505:	2	2	1	0	0	2	0	0
513:	0	0	2	0	1	0	0	0
521:	2	0	1	0	1	1	0	0
529:	0	0	1	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	1	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	1
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	1	0	0	1	0	0	0	0
609:	0	0	0	0	0	0	0	1
617:	0	0	1	0	0	0	0	0
625:	0	0	0	0	0	0	0	1
633:	0	0	1	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	1	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	1	0	0	0	0
729:	1	0	0	0	0	0	0	0
737:	0	0	1	0	0	0	0	0
745:	0	0	1	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	1	0	0	0	0	0
777:	0	0	0	0	0	0	0	1
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	1	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	1	0	0	0
913:	0	0	0	0	0	1	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	1	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KP 9/13/15

Apex-Alpha™

Sample Description: FEEBRIS1D-5 063-064
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 125657
Reagent Blank: <not performed>

Sample Size: 1.023E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/20/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:22:58 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.229 mL
Effective Efficiency: 0.2103 +/- 0.0169
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 1.0525 +/- 0.0864

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.837	7.64	77.95	1.36	0.00E+000	3.0
TH-228		5.357	8.30	75.75	1.70	0.00E+000	4.5
TH-229	T	4.888	183.98	14.50	1.02	0.00E+000	5.9
TH-230		4.660	31.32	35.46	0.68	0.00E+000	3.0
TH-232		3.980	3.83	102.72	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	9.67E-002 +/- 7.69E-002	8.68E-002 +/- 1.36E-002
TH-228	0.990	5400.00*	1.05E-001 +/- 8.11E-002	9.27E-002 +/- 1.46E-002
TH-229	0.999	4872.00*	2.28E+000 +/- 3.58E-001	7.80E-002 +/- 1.23E-002
TH-230	0.999	4672.00*	3.86E-001 +/- 1.50E-001	6.96E-002 +/- 1.09E-002
TH-232	0.999	3997.00*	4.72E-002 +/- 4.90E-002	5.14E-002 +/- 8.08E-003

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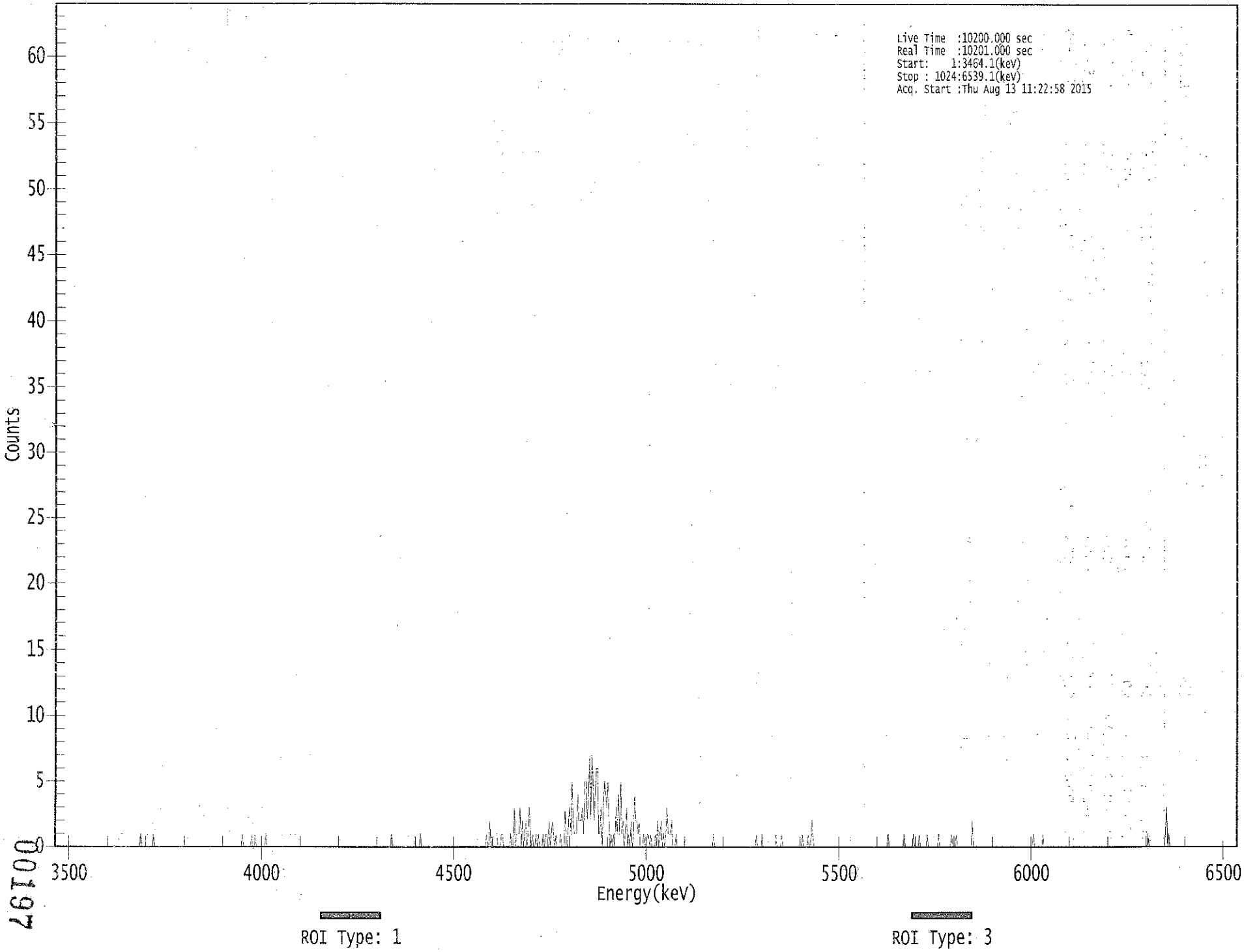
00196

0000125821.CNF



00197

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	1	0	0	0	0	0
81:	0	0	0	0	0	1	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	1	0	0	0	0	0
169:	0	0	1	0	0	1	0	0
177:	0	0	0	0	0	0	1	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	1	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	1	0	0

Sample Title: 04

Channel								
377:	2	0	0	1	1	1	1	0
385:	0	0	1	1	0	0	0	0
393:	0	0	1	0	0	3	0	1
401:	1	1	3	0	2	0	1	2
409:	0	1	3	1	0	1	0	0
417:	1	0	1	0	0	0	1	0
425:	1	1	0	2	0	1	2	1
433:	0	1	0	0	0	1	0	0
441:	0	3	0	0	2	3	1	5
449:	2	1	1	1	4	2	2	2
457:	3	1	5	5	2	4	7	2
465:	7	5	2	4	6	6	1	1
473:	3	0	3	5	4	3	5	2
481:	0	1	0	1	0	3	1	4
489:	1	5	1	2	0	1	3	0
497:	1	0	2	0	1	4	2	2
505:	1	2	0	0	0	1	0	0
513:	1	1	0	1	0	0	0	1
521:	0	2	0	1	2	0	1	0
529:	1	3	1	1	1	2	0	0
537:	0	1	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	1	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	1	0
609:	0	0	0	1	0	0	0	0
617:	0	0	0	0	0	0	0	1
625:	0	0	0	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	1	0
649:	0	0	0	1	0	0	2	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	1	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	1	0
737:	0	0	0	0	0	0	1	0
745:	0	0	0	1	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	0	0	0	0	1	0	0	0
769:	0	0	0	0	0	0	0	1
777:	0	0	0	1	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	2	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	1	0
849:	0	0	0	0	0	0	1	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	1	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	1	3	0	1	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 9/13/15

Apex-Alpha™

Sample Description: FEEBRIS1D-5 051-052
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 125658
Reagent Blank: <not performed>

Sample Size: 1.022E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/20/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:23:00 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.2258 +/- 0.0174
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.2293 +/- 0.0971

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.899	163.66	15.34	0.34	0.00E+000	7.0
TH-228		5.378	20.49	43.93	0.51	0.00E+000	3.4
TH-229	T	4.880	201.66	13.82	0.34	0.00E+000	7.2
TH-230		4.649	18802.83	1.43	0.17	0.00E+000	50.7
TH-232		3.945	169.32	15.10	0.68	0.00E+000	3.6

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.987	5850.00*	1.93E+000 +/- 4.16E-001	5.64E-002 +/- 8.52E-003
TH-228	0.997	5400.00*	2.41E-001 +/- 1.12E-001	6.18E-002 +/- 9.32E-003
TH-229	1.000	4872.00*	2.33E+000 +/- 3.51E-001	5.52E-002 +/- 8.33E-003
TH-230	0.997	4672.00*	2.16E+002 +/- 3.28E+001	4.80E-002 +/- 7.25E-003
TH-232	0.986	3997.00*	1.94E+000 +/- 4.15E-001	6.48E-002 +/- 9.78E-003

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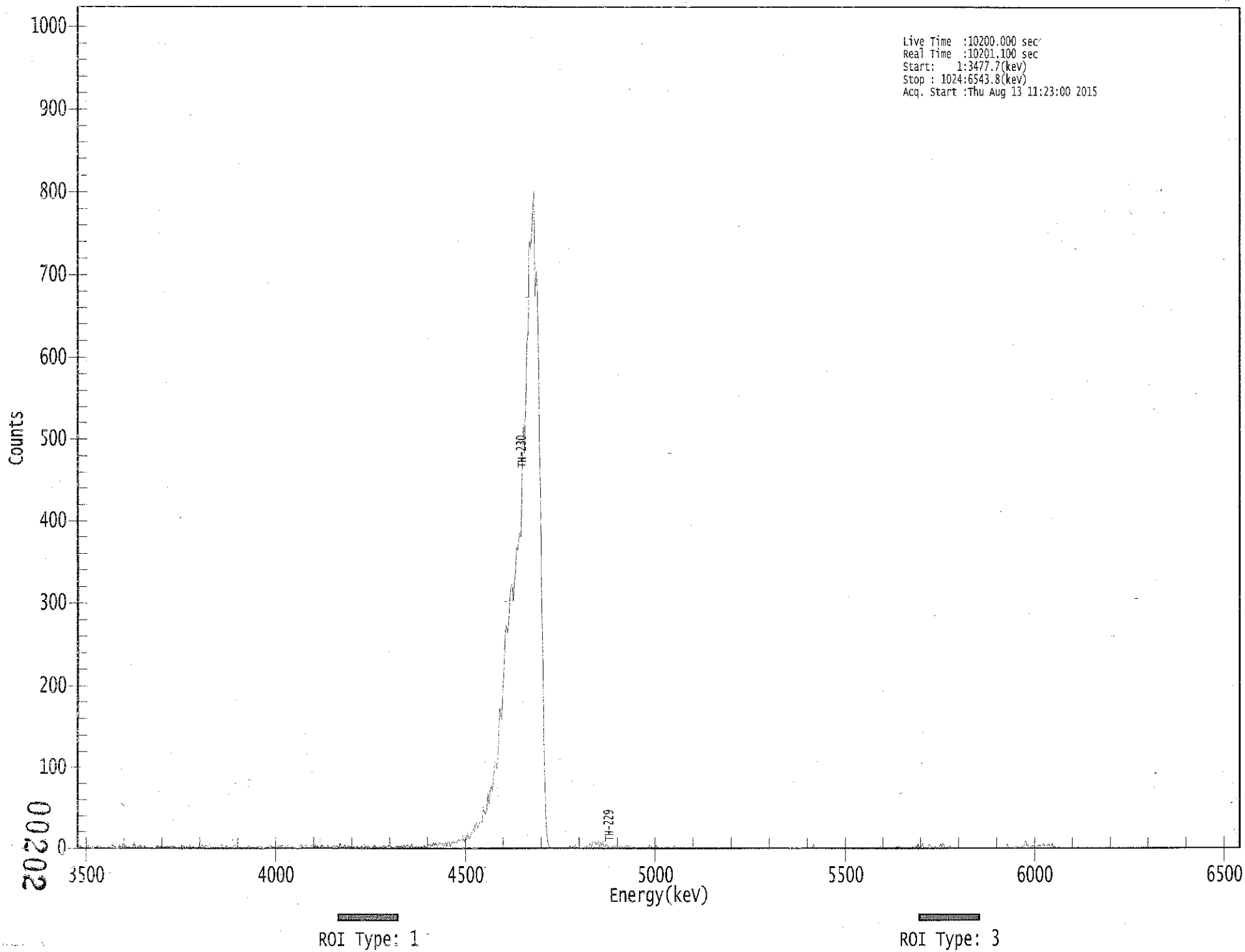
0000125822.CNF



20200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	3	2	3	2	1	1	0	0
9:	2	3	3	2	2	3	0	1
17:	1	1	3	0	2	1	0	0
25:	1	2	0	1	2	2	3	4
33:	2	2	1	0	1	4	1	0
41:	5	3	3	2	0	2	1	0
49:	0	3	7	1	0	2	2	4
57:	2	1	1	3	1	0	2	0
65:	0	1	1	0	1	0	3	3
73:	1	1	3	1	1	2	1	2
81:	1	2	1	2	1	3	1	1
89:	0	1	1	0	4	2	2	0
97:	2	0	1	4	0	1	2	0
105:	1	1	1	2	1	3	5	0
113:	3	4	2	2	5	1	1	1
121:	1	2	0	2	0	1	1	5
129:	1	1	1	3	1	2	1	2
137:	1	1	6	1	2	2	1	2
145:	0	2	1	1	0	1	2	4
153:	0	0	2	0	0	1	0	3
161:	2	3	1	0	0	1	1	1
169:	3	4	2	3	0	2	2	2
177:	4	2	3	2	4	1	1	2
185:	0	4	2	0	2	2	0	0
193:	0	0	0	0	4	5	0	1
201:	2	4	1	1	1	3	3	2
209:	1	4	0	3	1	0	2	4
217:	2	2	1	0	4	1	1	1
225:	2	3	2	1	3	1	2	6
233:	1	1	2	4	1	0	3	2
241:	2	1	1	2	0	2	2	0
249:	1	1	3	0	4	1	2	2
257:	2	1	0	2	1	4	2	1
265:	1	0	2	1	1	3	4	0
273:	2	3	4	2	2	1	1	1
281:	3	2	3	2	2	3	1	4
289:	1	3	4	3	1	2	5	0
297:	2	1	2	2	1	2	1	2
305:	0	4	0	1	4	4	5	3
313:	3	7	4	6	4	1	7	6
321:	5	7	3	4	8	3	8	7
329:	2	6	8	8	7	8	6	11
337:	10	9	10	16	8	10	10	18
345:	13	12	15	20	24	20	30	32
353:	25	29	34	33	33	51	45	42
361:	48	68	55	72	77	72	86	107

369:	106	99	123	173	165	159	200	221

Sample Title: 05

Channel								
377:	265	272	264	274	306	319	322	301
385:	324	337	367	363	377	385	380	459
393:	518	483	549	614	632	741	732	748
401:	773	801	674	704	686	608	495	423
409:	292	239	133	87	35	15	4	3
417:	0	1	1	1	0	0	1	0
425:	0	1	0	0	0	0	0	0
433:	0	4	0	1	2	2	4	0
441:	1	0	0	2	1	1	2	3
449:	2	2	3	6	2	8	7	8
457:	4	6	9	2	7	4	8	3
465:	1	5	3	3	2	1	1	3
473:	3	2	3	3	2	2	2	3
481:	0	2	3	3	3	3	2	2
489:	1	1	2	1	0	1	0	0
497:	0	0	2	1	1	1	1	4
505:	1	2	0	0	0	4	1	0
513:	0	1	1	1	0	1	2	1
521:	0	0	0	1	0	3	0	0
529:	1	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	1
585:	1	0	0	0	0	0	0	0
593:	0	1	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	1	0
617:	0	1	0	0	0	0	0	0
625:	1	0	0	0	0	0	1	0
633:	0	0	0	0	1	0	0	0
641:	0	0	1	0	1	0	1	5
649:	0	0	1	1	1	0	0	0
657:	1	1	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	1	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	1	0	0	0
705:	0	0	2	1	1	0	0	0
713:	0	0	0	0	0	0	1	0
721:	2	1	3	1	0	0	0	1
729:	1	1	0	0	0	0	2	1
737:	0	3	1	5	1	1	2	6
745:	1	0	2	1	1	5	2	2
753:	0	0	3	1	0	2	2	5
761:	2	6	4	1	0	2	0	3
769:	1	1	1	1	1	0	0	0
777:	0	1	0	0	0	0	0	0
785:	0	1	0	0	0	0	1	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	1	0	0	1	0

Sample Title: 05

Channel								
809:	1	0	1	0	0	0	0	1
817:	0	1	5	0	1	0	1	1
825:	0	2	0	2	0	0	1	2
833:	2	8	8	2	4	2	2	2
841:	3	3	2	0	1	4	3	2
849:	4	5	4	1	1	4	5	2
857:	0	6	1	2	1	0	0	1
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	1	0	0	0	0	0	0	0
889:	1	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	1	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	1	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KP 8/13/15

Sample Description: FEEBRIS1D-6 080-081
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 125659
Reagent Blank: <not performed>

Sample Size: 1.078E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/21/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:23:03 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1676 +/- 0.0148
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 0.9434 +/- 0.0851

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.865	1.98	176.34	1.02	0.00E+000	3.0
TH-228		5.388	18.94	49.11	3.06	0.00E+000	3.5
TH-229	T	4.881	148.94	16.25	3.06	0.00E+000	6.0
TH-230		4.635	28.26	39.62	3.74	0.00E+000	4.0
TH-232		3.982	21.43	46.28	3.57	0.00E+000	3.8

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	2.99E-002 +/- 5.29E-002	9.50E-002 +/- 1.65E-002
TH-228	0.999	5400.00*	2.85E-001 +/- 1.48E-001	1.34E-001 +/- 2.33E-002
TH-229	1.000	4872.00*	2.20E+000 +/- 3.81E-001	1.32E-001 +/- 2.28E-002
TH-230	0.993	4672.00*	4.15E-001 +/- 1.80E-001	1.41E-001 +/- 2.44E-002
TH-232	0.999	3997.00*	3.14E-001 +/- 1.55E-001	1.38E-001 +/- 2.40E-002

AG
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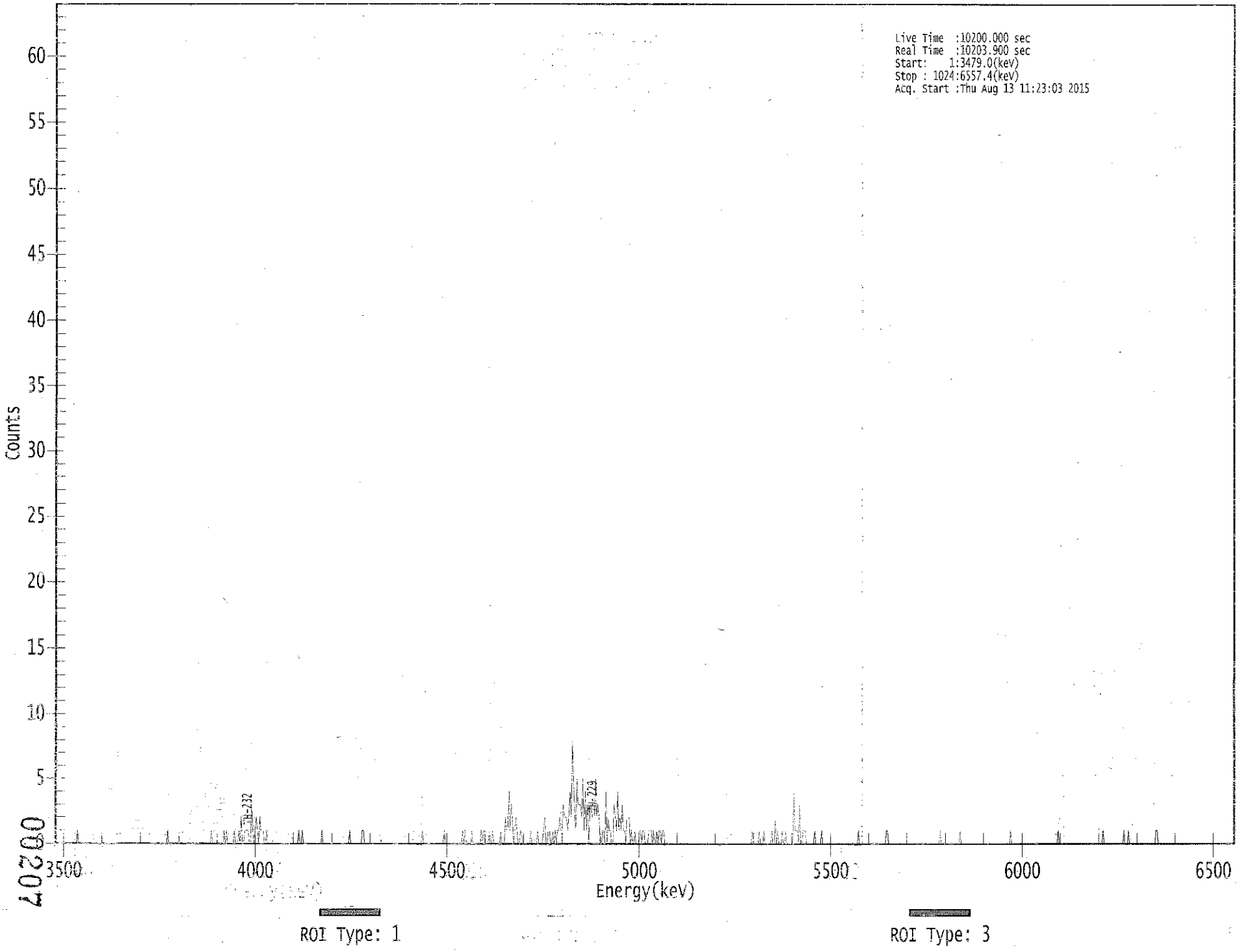
0000125812.CNF



40200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	1	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	1	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	1
137:	0	0	0	0	0	0	0	0
145:	0	0	1	0	1	0	0	0
153:	0	0	0	1	0	0	0	1
161:	0	2	0	0	1	1	1	1
169:	0	0	3	1	0	1	2	1
177:	0	2	1	1	1	0	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	1	0	0	1	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	1
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	1
257:	0	0	0	0	0	0	0	0
265:	0	0	1	1	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	1	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	1	0	0	0	0
361:	0	1	0	0	0	0	0	0

369:	0	1	0	1	1	0	0	0

Sample Title: 06

Channel								
377:	1	0	0	1	0	0	0	0
385:	0	0	1	0	0	0	2	1
393:	1	4	1	3	2	0	1	2
401:	1	0	0	1	1	0	0	0
409:	0	0	0	0	1	0	0	0
417:	0	0	1	0	0	0	0	1
425:	2	0	0	1	1	0	0	1
433:	0	1	0	1	1	2	1	1
441:	3	2	2	2	1	2	4	2
449:	8	5	2	1	5	3	3	3
457:	2	5	1	4	1	3	0	3
465:	3	2	2	2	5	2	3	2
473:	0	0	1	1	0	4	0	2
481:	1	1	0	0	3	2	1	4
489:	1	2	1	3	1	1	0	2
497:	2	2	0	1	0	0	1	0
505:	0	0	1	1	0	1	1	0
513:	0	0	1	1	1	0	1	0
521:	0	1	0	1	1	0	1	1
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	1	0	0	0
609:	0	0	1	0	0	0	1	0
617:	0	0	0	0	0	1	0	0
625:	2	0	1	0	0	0	1	0
633:	0	1	0	0	0	0	0	0
641:	4	1	1	1	0	3	0	0
649:	1	1	1	0	0	0	0	0
657:	0	0	1	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	1	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	1	1	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	1
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	1	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	1	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	1	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	1	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	1	0
929:	0	0	1	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	1	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KP 9/13/15

Sample Description: FEEBRIS1D-6 085-086
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_047
Chamber Serial Number: 02030596A
Detector Serial Number: 91086
Env. Background: System Bkgd 125660
Reagent Blank: <not performed>

Sample Size: 1.042E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/21/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:23:05 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1853 +/- 0.0156
Counting Efficiency: 0.1650 +/- 0.0029 on 10/25/2014 3:23:35 PM
Chem. Recovery Factor: 1.1230 +/- 0.0967

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.816	5.83	82.55	0.17	0.00E+000	3.0
TH-228		5.360	17.49	47.66	0.51	0.00E+000	4.5
TH-229	T	4.878	164.47	15.37	1.53	0.00E+000	4.2
TH-230		4.633	36.49	32.71	0.51	0.00E+000	4.5
TH-232		3.955	13.49	54.53	0.51	0.00E+000	4.5

T = Tracer Peak used for Effective Efficiency

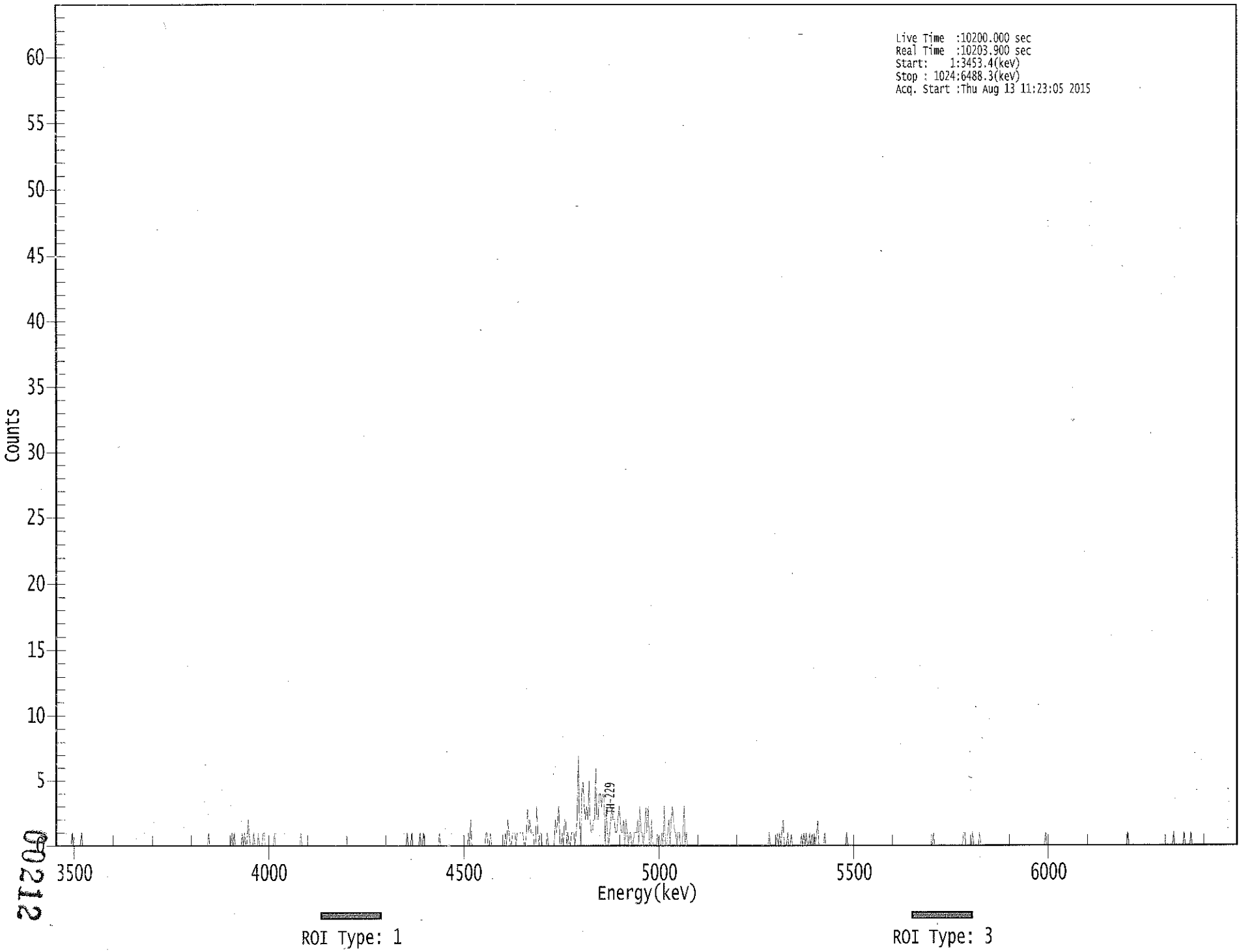
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.994	5850.00*	8.22E-002 +/- 6.92E-002	5.88E-002 +/- 9.72E-003
TH-228	0.992	5400.00*	2.46E-001 +/- 1.24E-001	7.37E-002 +/- 1.22E-002
TH-229	1.000	4872.00*	2.27E+000 +/- 3.75E-001	9.80E-002 +/- 1.62E-002
TH-230	0.992	4672.00*	5.02E-001 +/- 1.84E-001	7.21E-002 +/- 1.19E-002
TH-232	0.991	3997.00*	1.85E-001 +/- 1.05E-001	7.20E-002 +/- 1.19E-002

AG
8/13/15

00211

0000125830.CNF



0212

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	1	0
17:	0	0	0	0	0	0	1	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	1	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	1	0	1	0	0	0	0	0
161:	0	1	0	1	0	0	2	1
169:	0	0	0	1	0	0	0	1
177:	0	0	0	1	1	0	0	0
185:	0	0	0	0	0	1	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	1	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	1	0	0	0	1	0	0	0
313:	0	0	0	1	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	1	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	1	0	2
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	1	1	0	0

Sample Title: 07

Channel								
377:	1	0	0	0	0	0	0	0
385:	0	0	0	0	0	1	0	2
393:	1	0	0	1	1	1	0	1
401:	1	1	1	1	1	0	0	1
409:	3	1	2	1	1	1	0	0
417:	3	1	0	1	1	0	0	0
425:	0	1	0	0	0	0	0	0
433:	2	1	2	3	0	0	1	0
441:	2	2	0	1	0	0	1	1
449:	1	0	1	2	7	2	0	4
457:	5	3	2	3	2	5	2	1
465:	1	2	2	6	2	2	4	4
473:	3	4	4	0	3	1	0	1
481:	2	3	2	2	1	1	2	3
489:	2	1	1	2	0	2	1	0
497:	1	1	0	0	1	1	1	2
505:	0	3	1	1	0	1	3	1
513:	3	0	0	2	0	0	0	0
521:	1	0	0	0	1	0	3	0
529:	0	1	2	0	2	3	2	1
537:	1	0	1	1	0	0	1	3
545:	0	1	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	1	0	0	0	0	0	0
625:	1	0	1	0	1	2	0	0
633:	0	1	0	0	1	0	0	0
641:	0	0	0	0	0	1	0	1
649:	0	1	0	0	1	0	1	0
657:	1	0	1	2	0	0	0	0
665:	0	1	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	1	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	1
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	1	1	0	0	0	0	0
793:	0	1	0	0	0	0	0	1

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	1	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	1
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	1	0	0	0	0	0	1	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

VCD 9/13/15

Sample Description: FEEBRIS1D-7 093-094
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_048
Chamber Serial Number: 02030596B
Detector Serial Number: 83111
Env. Background: System Bkgd 125661
Reagent Blank: <not performed>

Sample Size: 1.124E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:23:07 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1298 +/- 0.0128
Counting Efficiency: 0.1700 +/- 0.0030 on 10/25/2014 3:27:02 PM
Chem. Recovery Factor: 0.7631 +/- 0.0764

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.902	9.83	63.14	0.17	0.00E+000	3.0
TH-228		5.377	16.13	52.01	1.87	0.00E+000	3.0
TH-229	T	4.882	115.15	18.34	0.85	0.00E+000	4.8
TH-230		4.637	990.49	6.23	0.51	0.00E+000	32.6
TH-232		3.951	20.81	44.38	1.19	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

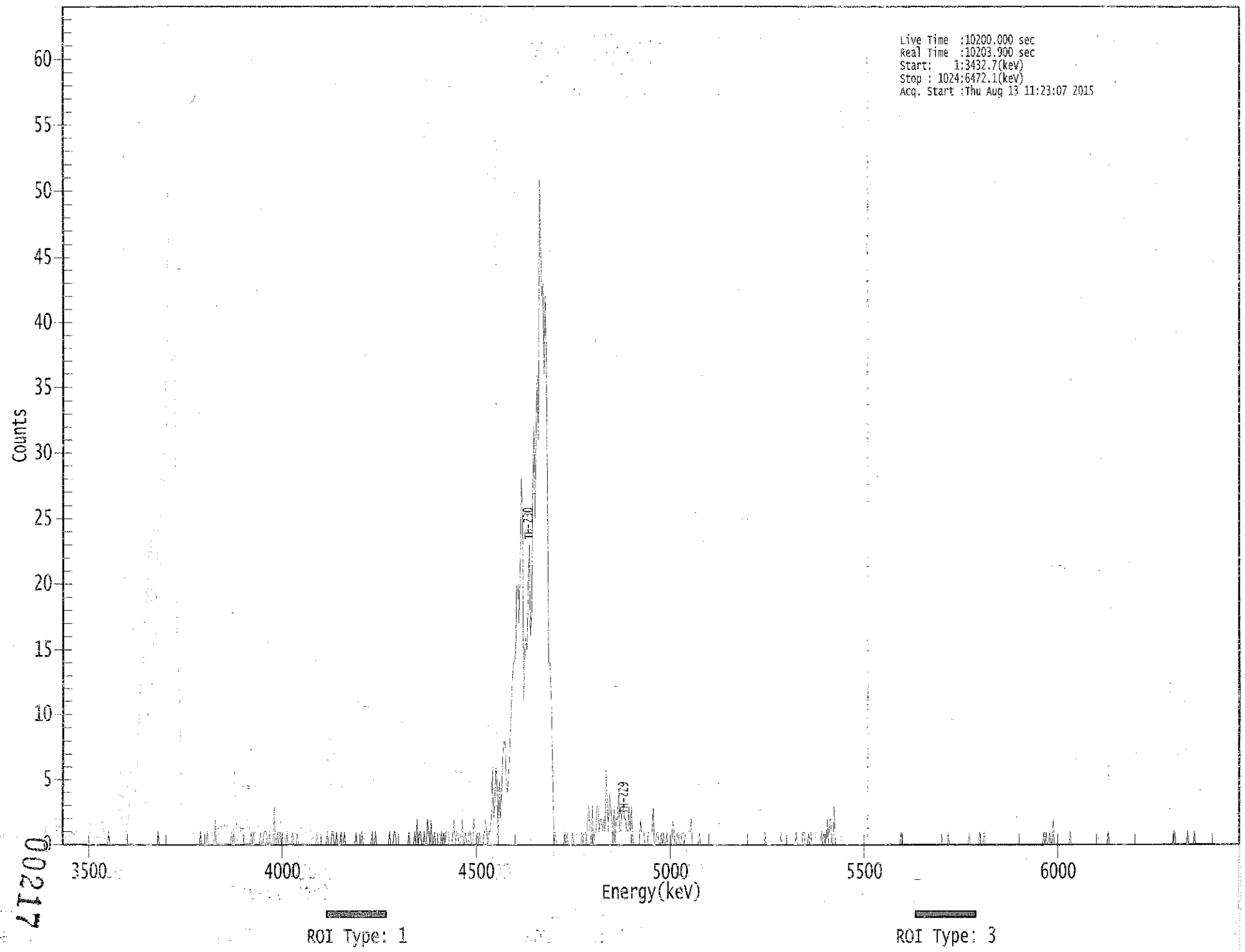
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.986	5850.00*	1.83E-001 +/- 1.21E-001	7.79E-002 +/- 1.51E-002
TH-228	0.997	5400.00*	2.99E-001 +/- 1.66E-001	1.40E-001 +/- 2.71E-002
TH-229	0.999	4872.00*	2.10E+000 +/- 4.06E-001	1.09E-001 +/- 2.11E-002
TH-230	0.994	4672.00*	1.80E+001 +/- 3.66E+000	9.55E-002 +/- 1.85E-002
TH-232	0.989	3997.00*	3.78E-001 +/- 1.83E-001	1.20E-001 +/- 2.31E-002

AG
8/13/15

00216

0000125831.CNF



00217

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	1	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	1	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	1	0	0	0	0	0	1	0
129:	0	0	0	0	0	2	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	1	0	1	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	1	0	1	0
169:	0	0	0	0	1	0	0	1
177:	1	1	0	0	1	0	0	0
185:	3	0	0	1	0	1	0	1
193:	0	0	0	1	0	0	0	0
201:	1	0	0	0	1	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	1	0	0
225:	0	0	0	0	0	0	1	0
233:	0	0	1	1	0	0	1	0
241:	0	0	1	0	0	1	0	0
249:	0	0	0	0	0	0	0	1
257:	0	0	0	0	1	0	0	0
265:	0	0	0	0	0	1	0	0
273:	1	0	0	0	0	0	0	0
281:	0	0	0	0	1	0	0	0
289:	1	1	0	0	0	0	0	0
297:	0	0	0	0	0	1	0	0
305:	0	0	1	0	2	0	1	1
313:	0	0	1	0	0	2	1	0
321:	2	0	0	1	0	0	0	0
329:	0	1	0	1	0	1	1	1
337:	0	0	0	1	2	0	1	1
345:	0	0	1	2	0	0	1	0
353:	0	1	1	0	0	2	1	1
361:	1	0	1	0	0	0	1	2

369:	1	0	1	1	2	6	2	3

Sample Title: 08

Channel								
377:	6	5	0	5	2	4	7	8
385:	8	5	4	5	7	10	12	14
393:	14	15	20	20	17	22	28	25
401:	11	15	16	15	20	23	16	18
409:	27	32	25	32	36	31	51	46
417:	42	43	36	42	37	26	14	14
425:	11	7	2	0	1	0	0	0
433:	0	0	0	0	1	0	1	0
441:	0	0	0	1	0	0	0	0
449:	0	0	0	1	0	1	1	0
457:	2	3	1	0	3	0	1	1
465:	3	3	1	2	2	1	2	1
473:	6	3	1	4	3	2	0	3
481:	0	2	2	4	1	1	3	3
489:	2	2	1	1	3	1	3	1
497:	0	0	0	0	0	0	2	1
505:	1	1	0	0	0	1	1	1
513:	1	3	0	0	1	1	0	0
521:	1	0	1	0	0	1	0	0
529:	0	0	2	1	0	0	1	1
537:	0	0	1	1	0	1	1	1
545:	1	1	2	0	0	0	0	0
553:	0	1	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	1	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	1	0	0	0	0	0	0	0
633:	0	0	0	0	0	1	0	0
641:	0	0	0	1	1	0	0	0
649:	1	0	1	0	0	0	0	0
657:	0	0	0	1	0	1	0	0
665:	2	0	2	2	0	0	3	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	1	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	1	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	1	0	0	0	0
793:	0	0	0	0	1	0	0	0

801:	1	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	1	0	1	0
857:	0	1	0	0	2	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	1	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	1	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	1	1	0
969:	0	0	0	0	0	0	0	0
977:	0	1	0	0	0	0	0	1
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

ICD 8/13/15

Apex-Alpha™

Sample Description: FEEBRIS1D-16 050-051
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_049
Chamber Serial Number: 10006121A
Detector Serial Number: 49
Env. Background: System Bkgd 125662
Reagent Blank: <not performed>

Sample Size: 1.196E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:23:39 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1930 +/- 0.0160
Counting Efficiency: 0.1525 +/- 0.0027 on 12/13/2014 2:45:02 PM
Chem. Recovery Factor: 1.2651 +/- 0.1073

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.893	758.66	7.12	0.34	0.00E+000	10.9
TH-228		5.356	28.64	37.63	1.36	0.00E+000	3.0
TH-229	T	4.901	170.81	15.06	1.19	0.00E+000	3.5
TH-230		4.657	84468.66	0.67	0.34	0.00E+000	37.2
TH-232		3.952	562.15	8.27	0.85	0.00E+000	7.1

T = Tracer Peak used for Effective Efficiency

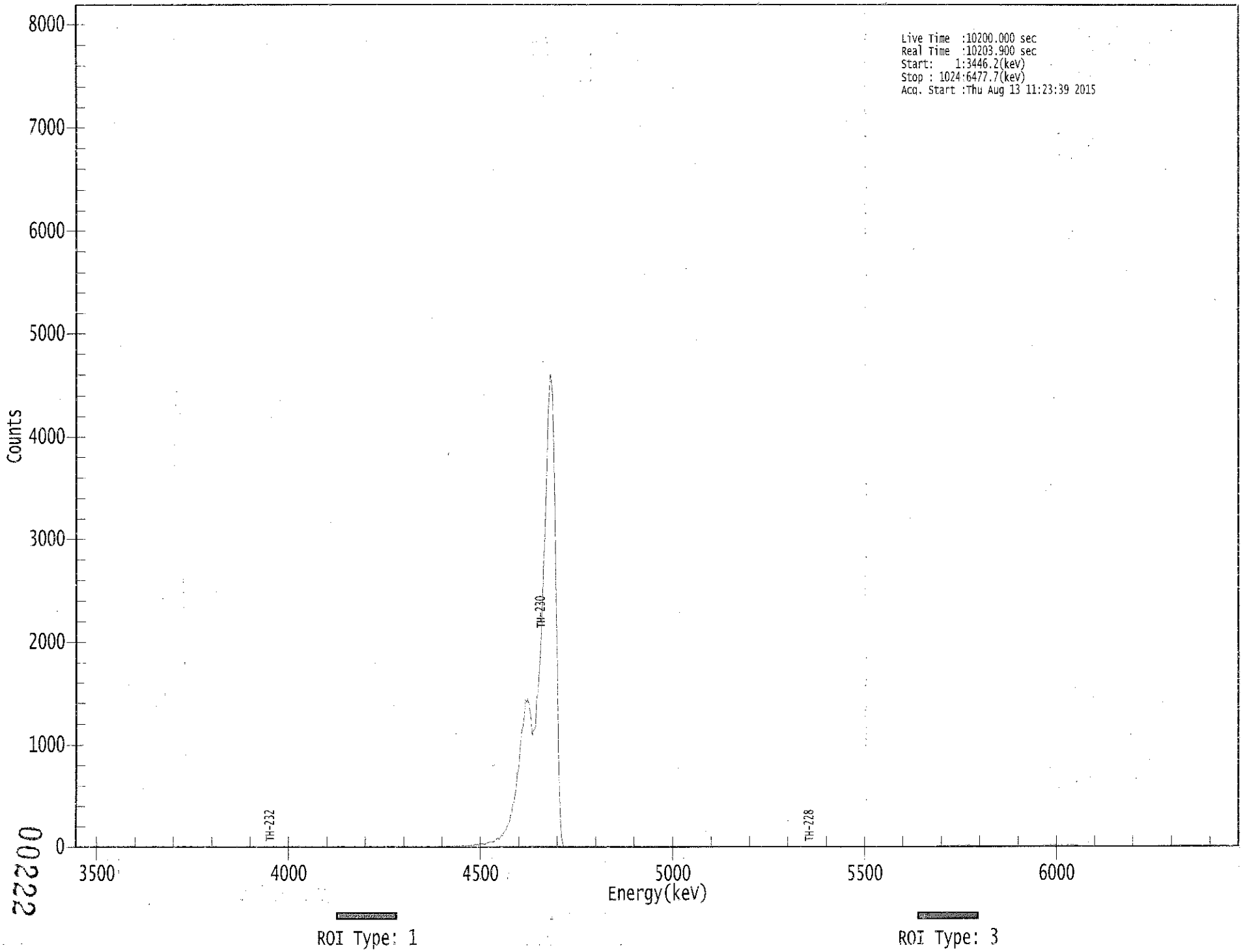
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.990	5850.00*	8.95E+000 +/- 1.59E+000	5.64E-002 +/- 9.15E-003
TH-228	0.990	5400.00*	3.35E-001 +/- 1.37E-001	8.01E-002 +/- 1.30E-002
TH-229	0.996	4872.00*	1.97E+000 +/- 3.20E-001	7.60E-002 +/- 1.23E-002
TH-230	0.999	4672.00*	9.71E+002 +/- 1.58E+002	5.50E-002 +/- 8.93E-003
TH-232	0.990	3997.00*	6.45E+000 +/- 1.18E+000	6.87E-002 +/- 1.12E-002

AG 8/13/15

00221

0000125823.CNF



00222

****
***** SPECTRAL DATA REPORT *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	3	4	6	5	10	4	3	7
9:	7	4	5	6	5	3	4	4
17:	8	5	2	8	6	7	5	4
25:	7	5	5	7	7	8	4	7
33:	4	8	3	4	9	7	6	5
41:	2	5	8	2	5	6	8	5
49:	8	12	8	6	6	4	4	3
57:	5	3	6	4	7	5	9	3
65:	7	6	4	5	10	7	8	9
73:	1	9	2	7	7	7	7	2
81:	4	4	5	5	2	6	6	5
89:	3	4	10	7	4	6	9	7
97:	10	4	7	3	6	12	9	4
105:	3	7	4	6	4	2	6	1
113:	8	5	4	9	5	8	6	5
121:	2	10	8	9	9	3	4	7
129:	3	6	3	2	4	8	5	3
137:	4	5	7	6	6	6	3	6
145:	5	1	2	0	4	2	9	6
153:	5	9	4	3	11	5	4	5
161:	7	4	7	5	4	5	6	7
169:	7	5	5	5	3	5	9	7
177:	10	2	7	8	5	9	4	10
185:	4	2	3	9	7	2	8	7
193:	7	7	5	11	13	3	1	4
201:	4	4	8	5	4	5	6	7
209:	5	5	3	5	3	8	2	4
217:	4	12	11	7	3	4	4	5
225:	5	4	7	4	4	4	7	10
233:	2	5	13	6	9	3	6	4
241:	2	2	5	3	5	8	5	4
249:	5	6	2	6	4	8	5	4
257:	6	4	7	12	5	2	7	3
265:	6	9	2	6	3	5	5	8
273:	3	6	10	8	2	9	8	11
281:	2	8	1	6	8	5	3	8
289:	4	12	1	8	6	3	5	1
297:	8	6	1	12	3	5	2	5
305:	8	6	5	1	4	8	8	8
313:	4	6	5	7	8	3	7	7
321:	9	6	11	5	6	5	11	10
329:	13	7	7	11	7	15	9	15
337:	6	14	10	12	14	14	16	11
345:	13	15	15	10	21	15	19	28
353:	20	29	16	33	31	33	31	26
361:	31	37	43	43	49	44	52	47

00223

369:	58	63	85	91	74	95	124	110

Sample Title: 09

Channel								
377:	137	164	165	202	225	231	309	330
385:	421	439	511	580	713	754	880	1038
393:	1144	1169	1287	1436	1415	1438	1396	1320
401:	1265	1089	1138	1149	1181	1458	1506	1698
409:	1865	2081	2444	2774	3013	3375	3741	4211
417:	4438	4618	4530	4396	3907	3276	2432	1764
425:	963	527	237	91	29	5	0	1
433:	0	0	0	0	0	1	1	1
441:	0	0	0	0	0	0	0	0
449:	1	1	0	0	0	0	0	2
457:	1	0	1	2	2	3	2	0
465:	2	6	2	5	5	1	7	1
473:	2	4	4	5	3	4	1	3
481:	5	4	5	2	0	1	2	2
489:	1	1	5	1	2	1	1	1
497:	2	1	4	1	1	1	0	3
505:	1	0	1	2	0	1	2	3
513:	3	1	1	0	1	1	2	1
521:	2	1	1	1	0	0	0	0
529:	0	0	0	0	0	1	3	0
537:	0	1	2	4	2	1	1	1
545:	3	1	2	1	1	0	1	1
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	1	0	0	0	0	0
585:	0	0	2	0	0	0	0	0
593:	0	0	0	0	0	0	0	1
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	1
617:	1	0	0	0	0	0	0	0
625:	0	0	0	0	0	2	0	0
633:	0	1	0	0	1	0	0	1
641:	1	0	0	1	0	1	0	0
649:	0	0	0	0	0	0	1	0
657:	0	0	2	0	0	0	0	2
665:	0	1	1	1	2	2	0	1
673:	0	1	0	2	0	0	0	0
681:	0	1	0	0	0	0	0	1
689:	0	0	0	1	0	0	0	0
697:	1	1	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	1	0	0
721:	0	0	0	1	1	1	0	0
729:	2	1	1	2	1	1	1	1
737:	1	2	1	1	1	0	0	1
745:	1	0	3	0	3	3	2	5
753:	4	5	0	1	4	6	4	8
761:	6	7	10	6	9	11	8	10
769:	10	11	9	9	9	6	11	7
777:	16	5	7	11	10	8	15	11
785:	10	17	9	7	6	6	3	2
793:	4	4	1	2	2	0	2	4

801:	2	0	1	0	1	0	0	0

Sample Title: 09

Channel								
809:	2	2	1	3	3	0	0	1
817:	0	1	0	1	0	1	1	0
825:	2	1	0	0	0	2	2	1
833:	0	2	0	3	1	3	4	1
841:	3	2	2	6	4	9	5	6
849:	7	9	10	12	10	15	12	11
857:	14	20	8	17	14	21	10	13
865:	8	7	17	11	5	7	8	10
873:	19	12	13	17	19	15	8	11
881:	8	11	1	3	0	1	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	1	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	1	0
945:	0	0	0	0	0	0	0	0
953:	0	1	0	0	0	1	0	0
961:	0	1	1	0	0	0	0	0
969:	0	1	0	0	0	0	0	0
977:	0	0	0	0	1	0	0	0
985:	0	0	0	0	0	0	0	1
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 9/13/15

Sample Description: FEEBRIS1D-16 059-061
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_050
Chamber Serial Number: 10006121B
Detector Serial Number: 50
Env. Background: System Bkgd 125663
Reagent Blank: <not performed>

Sample Size: 1.034E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:23:41 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.231 mL
Effective Efficiency: 0.1759 +/- 0.0152
Counting Efficiency: 0.1428 +/- 0.0026 on 12/13/2014 2:43:59 PM
Chem. Recovery Factor: 1.2319 +/- 0.1085

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.856	2.15	161.66	0.85	0.00E+000	3.0
TH-228		5.366	41.13	31.36	1.87	0.00E+000	15.8
TH-229	T	4.876	155.32	15.77	0.68	0.00E+000	8.9
TH-230		4.646	41.66	30.51	0.34	0.00E+000	3.5
TH-232		3.972	19.49	45.07	0.51	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

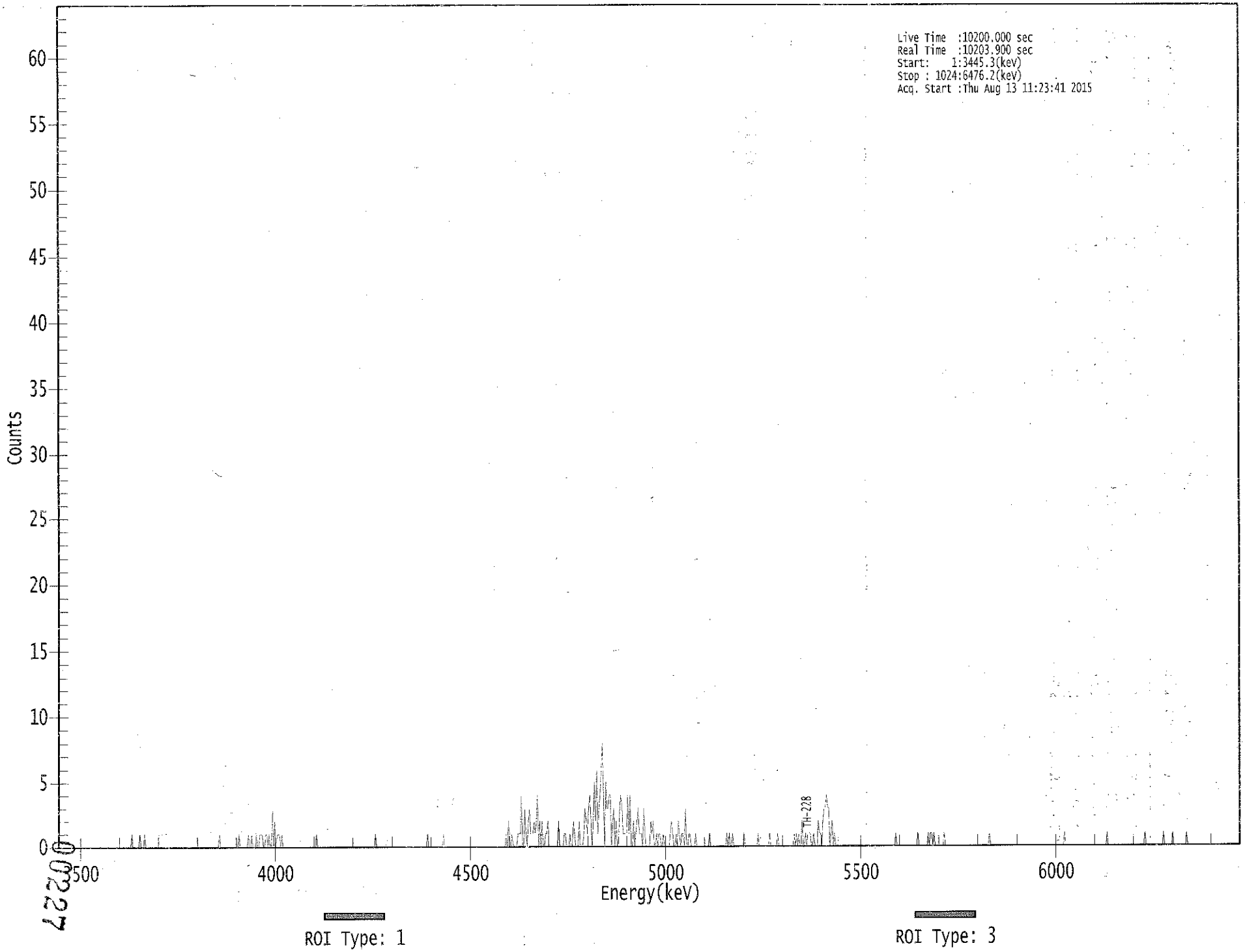
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	3.22E-002 +/- 5.23E-002	8.96E-002 +/- 1.51E-002
TH-228	0.994	5400.00*	6.10E-001 +/- 2.17E-001	1.12E-001 +/- 1.90E-002
TH-229	1.000	4872.00*	2.27E+000 +/- 3.84E-001	8.26E-002 +/- 1.40E-002
TH-230	0.996	4672.00*	6.08E-001 +/- 2.12E-001	6.98E-002 +/- 1.18E-002
TH-232	0.997	3997.00*	2.84E-001 +/- 1.37E-001	7.65E-002 +/- 1.29E-002

AG 8/13/15

00226

0000125824.CNF



42200227

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	1
65:	0	0	0	0	0	0	1	0
73:	0	0	1	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	1	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	1	0	0	0
161:	0	0	0	0	1	0	0	1
169:	0	0	0	1	0	0	1	1
177:	1	0	0	1	1	0	1	0
185:	0	3	0	2	0	1	1	1
193:	0	1	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	1
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	1	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	1
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	1	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	1	0	2	1	0
393:	1	0	0	0	0	1	1	1
401:	4	0	0	3	1	0	2	3
409:	1	1	1	2	1	2	4	0
417:	2	0	2	0	0	1	1	2
425:	0	0	0	0	0	0	0	0
433:	2	0	0	0	0	1	1	0
441:	0	0	1	0	0	2	1	0
449:	0	0	2	0	0	0	1	3
457:	2	1	3	4	2	0	2	5
465:	2	6	1	3	4	6	8	4
473:	0	5	3	3	4	4	0	2
481:	3	0	2	0	0	3	4	3
489:	1	1	1	1	4	1	4	0
497:	0	2	0	1	2	3	1	1
505:	1	0	3	1	0	0	0	0
513:	2	1	2	0	0	1	0	1
521:	1	0	0	1	0	0	0	0
529:	0	1	2	1	0	0	1	0
537:	2	1	0	1	1	0	3	0
545:	0	1	1	0	0	0	0	1
553:	0	0	0	0	0	0	0	0
561:	0	0	0	1	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	1	0	1	0	0	1
585:	0	0	0	0	0	0	0	0
593:	0	1	0	0	0	0	0	0
601:	0	0	0	0	0	1	0	0
609:	0	0	0	0	0	0	0	1
617:	0	0	0	0	0	0	1	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	1	0	1	0
641:	1	0	0	2	0	0	1	0
649:	1	1	1	0	0	1	0	0
657:	0	2	1	1	0	2	3	3
665:	4	3	3	0	1	2	0	1
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	1	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	1
745:	0	0	0	0	0	0	0	0
753:	1	0	1	1	0	1	0	0
761:	0	0	0	0	0	0	1	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	1	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	1	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	1	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	1	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	1	0	0	0
961:	0	0	0	0	1	0	0	0
969:	0	0	0	0	0	0	0	0
977:	1	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

JCB 8/13/15

Apex-Alpha™

Sample Description: DUPLICATE 4
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001258
Batch Identification: 1507182A-TH
Sample Identification: 11
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_051
Chamber Serial Number: 10006123A
Detector Serial Number: 51
Env. Background: System Bkgd 125664
Reagent Blank: <not performed>

Sample Size: 1.082E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/27/2015 5:58:53 AM
Acquisition Date/Time: 8/13/2015 11:23:43 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.1 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.230 mL
Effective Efficiency: 0.0892 +/- 0.0107
Counting Efficiency: 0.1524 +/- 0.0027 on 12/13/2014 2:42:37 PM
Chem. Recovery Factor: 0.5853 +/- 0.0711

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.921	0.96	373.51	2.04	0.00E+000	3.0
TH-228		5.335	5.75	111.62	4.25	0.00E+000	3.0
TH-229	T	4.884	78.26	22.77	3.74	0.00E+000	4.0
TH-230		4.652	13.45	59.07	2.55	0.00E+000	3.0
TH-232		3.985	9.66	64.35	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.974	5850.00*	2.71E-002 +/- 1.01E-001	2.20E-001 +/- 5.18E-002
TH-228	0.978	5400.00*	1.61E-001 +/- 1.83E-001	2.81E-001 +/- 6.61E-002
TH-229	0.999	4872.00*	2.16E+000 +/- 5.09E-001	2.65E-001 +/- 6.23E-002
TH-230	0.998	4672.00*	3.70E-001 +/- 2.35E-001	2.31E-001 +/- 5.44E-002
TH-232	0.999	3997.00*	2.65E-001 +/- 1.82E-001	1.31E-001 +/- 3.09E-002

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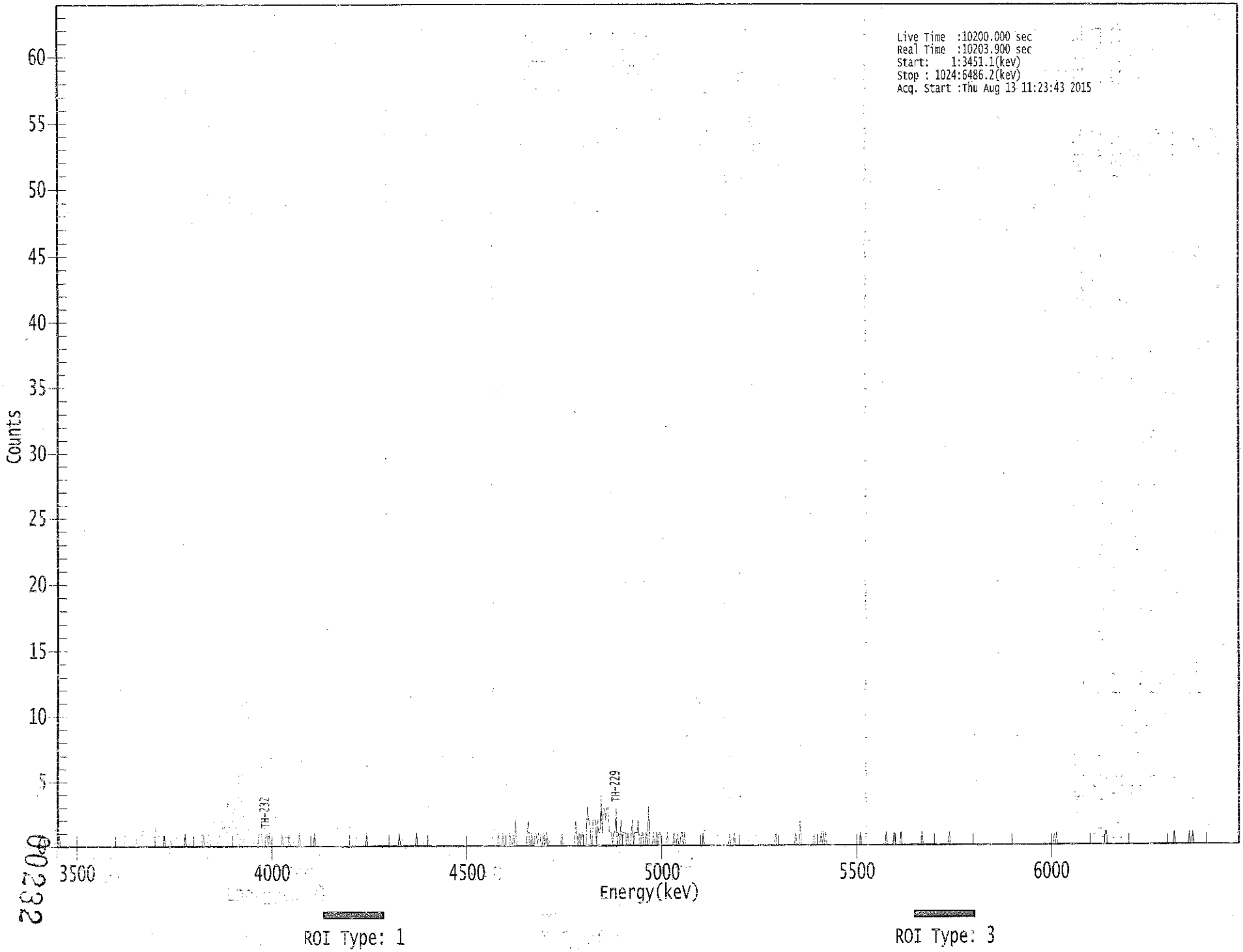
00231

0000125825.CNF



09232

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10204

Channel								
1:	0	1	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	1	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	1	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	1	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	1	1
177:	1	0	0	0	1	1	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	0	1	0	0	0	0	0	0
217:	0	0	0	0	0	0	1	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	1	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	1
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

00233

369:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
377:	0	0	0	0	0	1	0	0
385:	0	1	0	0	0	0	0	1
393:	0	0	1	0	2	0	0	0
401:	0	0	0	0	0	0	1	2
409:	0	0	1	0	0	1	1	0
417:	1	1	0	0	1	0	0	1
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	1	0	0	0
441:	0	0	0	0	0	0	0	0
449:	2	1	0	1	0	1	1	0
457:	0	0	3	2	2	0	0	2
465:	2	2	0	2	1	1	4	1
473:	3	3	2	3	3	1	1	1
481:	0	1	1	3	0	1	0	2
489:	0	1	1	1	0	1	0	0
497:	1	2	0	1	1	1	2	0
505:	0	1	1	0	0	1	0	3
513:	0	0	0	1	0	0	1	0
521:	1	1	0	0	0	0	0	1
529:	0	0	0	0	0	1	0	0
537:	1	0	0	1	1	0	1	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	1	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	1	0	0
585:	0	1	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	1	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	1	0
641:	0	0	2	0	0	0	0	0
649:	0	0	0	0	0	0	1	0
657:	0	0	0	0	1	0	1	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	1	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	1	0	0	0
721:	0	0	0	1	0	0	0	0
729:	0	1	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	1	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	1	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	1	0
865:	1	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	1	1	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	1	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	1	0	0	1	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

8/13/2015 5:41:33 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 8/13/2015
Time : 5:41:33 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	8/13/2015 5:21:10 AM
Alpha_004	21f	ALL	Passed	8/13/2015 5:21:11 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	8/13/2015 5:21:12 AM
Alpha_011	21f	ALL	Passed	8/13/2015 5:21:13 AM
Alpha_012	21f	ALL	Passed	8/13/2015 5:21:13 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	8/13/2015 5:21:14 AM
Alpha_015	21f	ALL	Passed	8/13/2015 5:21:15 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:16 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:18 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	8/9/2015 9:37:34 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:20 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:22 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	8/13/2015 5:21:23 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:25 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:28 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:31 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:33 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:35 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:38 AM
Alpha_045	Alpha Analyst100DC	ALL	Passed	8/9/2015 9:37:50 AM
Alpha_046	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:40 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:42 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:45 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:47 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:50 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:53 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:56 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:21:58 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:22:01 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:22:04 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:22:06 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:22:09 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:22:12 AM

Review of QA Results - Pulser Check

8/13/2015 5:41:33 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:22:15 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	8/13/2015 5:22:19 AM

APPROVED BY: _____

APPROVAL DATE: 8/17

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

15-07182
Gamma
Run 1

Work Order	15-07182
Analysis Code	Gamma
Run	1
Date Received	7/30/2015
Lab Deadline	8/21/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

00240

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		07/30/15 00:00	1.0000E+00
02	MBL	BLANK		07/30/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-5 063-064	40	07/20/15 14:28	4.3483E+02
04	DO	FEEBRIS1D-5 063-064	40	07/20/15 14:28	4.3484E+02
05	TRG	FEEBRIS1D-5 051-052	44	07/20/15 14:04	2.4487E+02
06	TRG	FEEBRIS1D-6 080-081	35	07/21/15 09:53	2.6456E+02
07	TRG	FEEBRIS1D-6 085-086	38	07/21/15 09:58	3.1791E+02
08	TRG	FEEBRIS1D-7 093-094	31	07/24/15 14:50	7.1251E+02
09	TRG	FEEBRIS1D-16 050-051	50	07/27/15 09:44	2.5865E+02
10	TRG	FEEBRIS1D-16 059-061	36	07/27/15 10:14	6.9327E+02
11	TRG	DUPLICATE 4	41	07/27/15 10:14	6.9952E+02

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-07182
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								
05	TRG				0.00								
06	TRG				0.00								
07	TRG				0.00								
08	TRG				0.00								
09	TRG				0.00								
10	TRG				0.00								
11	TRG				0.00								

00241

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	07/31/15 07:20	KSALLINGS						
05	TRG	07/31/15 07:20	KSALLINGS						
06	TRG	07/31/15 07:20	KSALLINGS						
07	TRG	07/31/15 07:20	KSALLINGS						
08	TRG	07/31/15 07:20	KSALLINGS						
09	TRG	07/31/15 07:20	KSALLINGS						
10	TRG	07/31/15 07:20	KSALLINGS						
11	TRG	07/31/15 07:20	KSALLINGS						

27200 42

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-07182-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.40E+02	8.19E+00	8.37E-01	1.37E+02	102.40	OK		07/30/15 00:00	1.00E+00	08/20/15 07:37	YES
01	CS-137	LCS	LCS	pCi/g	9.20E+01	8.26E+00	1.06E+00	8.69E+01	105.86	OK		07/30/15 00:00	1.00E+00	08/20/15 07:37	YES
02	AC-228	MBL	BLANK	pCi/g	6.07E-02	5.44E-02	1.15E-01					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	BI-214	MBL	BLANK	pCi/g	4.02E-02	4.57E-02	7.95E-02					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	K-40	MBL	BLANK	pCi/g	2.35E-01	1.85E-01	4.10E-01					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	PA-231	MBL	BLANK	pCi/g	6.48E-02	6.45E-01	8.90E-01					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	PB-210	MBL	BLANK	pCi/g	7.75E-01	5.53E-01	8.83E-01					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	PB-212	MBL	BLANK	pCi/g	2.70E-02	3.74E-02	5.51E-02					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	PB-214	MBL	BLANK	pCi/g	1.14E-02	5.04E-02	7.10E-02					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	RA-226	MBL	BLANK	pCi/g	4.02E-02	4.57E-02	7.95E-02					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	RA-228	MBL	BLANK	pCi/g	6.07E-02	5.44E-02	1.15E-01					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	TH-234	MBL	BLANK	pCi/g	3.05E-01	2.68E-01	4.71E-01					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
02	TL-208	MBL	BLANK	pCi/g	1.77E-02	5.11E-02	8.59E-02					07/30/15 00:00	1.00E+00	08/20/15 07:37	NO
03	AC-228	DUP	FEEBRIS1D-5 063-064	pCi/g	7.94E-01	2.11E-01	2.87E-01					07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	BI-214	DUP	FEEBRIS1D-5 063-064	pCi/g	9.95E-01	1.58E-01	2.10E-01				NA	07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	K-40	DUP	FEEBRIS1D-5 063-064	pCi/g	1.54E+01	1.95E+00	7.50E-01				NA	07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	PA-231	DUP	FEEBRIS1D-5 063-064	pCi/g	4.17E-01	1.45E+00	2.40E+00					07/20/15 14:28	4.35E+02	08/21/15 06:11	NO
03	PB-210	DUP	FEEBRIS1D-5 063-064	pCi/g	1.88E+00	1.67E+00	2.76E+00					07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	PB-212	DUP	FEEBRIS1D-5 063-064	pCi/g	1.02E+00	1.37E-01	2.27E-01					07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	PB-214	DUP	FEEBRIS1D-5 063-064	pCi/g	1.00E+00	1.43E-01	2.43E-01				NA	07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	RA-226	DUP	FEEBRIS1D-5 063-064	pCi/g	9.95E-01	1.58E-01	2.10E-01					07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	RA-228	DUP	FEEBRIS1D-5 063-064	pCi/g	7.94E-01	2.11E-01	2.87E-01					07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	TH-234	DUP	FEEBRIS1D-5 063-064	pCi/g	1.81E+00	1.57E+00	2.60E+00					07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
03	TL-208	DUP	FEEBRIS1D-5 063-064	pCi/g	7.34E-01	1.37E-01	1.99E-01					07/20/15 14:28	4.35E+02	08/21/15 06:11	YES
04	AC-228	DO	FEEBRIS1D-5 063-064	pCi/g	8.39E-01	2.08E-01	4.71E-01					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	BI-214	DO	FEEBRIS1D-5 063-064	pCi/g	1.06E+00	1.72E-01	2.62E-01					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	K-40	DO	FEEBRIS1D-5 063-064	pCi/g	1.50E+01	1.98E+00	1.18E+00					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	PA-231	DO	FEEBRIS1D-5 063-064	pCi/g	-1.12E-01	9.64E-01	2.32E+00					07/20/15 14:28	4.35E+02	08/21/15 07:16	NO
04	PB-210	DO	FEEBRIS1D-5 063-064	pCi/g	1.51E+00	1.69E+00	2.82E+00					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	PB-212	DO	FEEBRIS1D-5 063-064	pCi/g	9.87E-01	1.34E-01	1.99E-01					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	PB-214	DO	FEEBRIS1D-5 063-064	pCi/g	1.05E+00	1.40E-01	1.99E-01					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	RA-226	DO	FEEBRIS1D-5 063-064	pCi/g	1.06E+00	1.72E-01	2.62E-01					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	RA-228	DO	FEEBRIS1D-5 063-064	pCi/g	8.39E-01	2.08E-01	4.71E-01					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
04	TH-234	DO	FEEBRIS1D-5 063-064	pCi/g	2.47E+00	1.35E+00	1.92E+00					07/20/15 14:28	4.35E+02	08/21/15 07:16	NO
04	TL-208	DO	FEEBRIS1D-5 063-064	pCi/g	6.45E-01	1.57E-01	1.92E-01					07/20/15 14:28	4.35E+02	08/21/15 07:16	YES
05	AC-228	TRG	FEEBRIS1D-5 051-052	pCi/g	1.35E+00	6.46E-01	1.45E+00					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
05	BI-214	TRG	FEEBRIS1D-5 051-052	pCi/g	5.39E+01	3.25E+00	7.48E-01					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
05	K-40	TRG	FEEBRIS1D-5 051-052	pCi/g	1.46E+01	3.73E+00	4.99E+00					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES

Work Order: 15-07182-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
05	PA-231	TRG	FEEBRIS1D-5 051-052	pCi/g	1.14E+00	1.20E+01	1.47E+01					07/20/15 14:04	2.45E+02	08/21/15 06:11	NO
05	PB-210	TRG	FEEBRIS1D-5 051-052	pCi/g	9.37E+01	1.60E+01	2.01E+01					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
05	PB-212	TRG	FEEBRIS1D-5 051-052	pCi/g	1.13E+00	3.84E-01	1.40E+00					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
05	PB-214	TRG	FEEBRIS1D-5 051-052	pCi/g	7.25E+01	4.76E+00	1.29E+00					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
05	RA-226	TRG	FEEBRIS1D-5 051-052	pCi/g	5.39E+01	3.25E+00	7.48E-01					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
05	RA-228	TRG	FEEBRIS1D-5 051-052	pCi/g	1.35E+00	6.46E-01	1.45E+00					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
05	TH-234	TRG	FEEBRIS1D-5 051-052	pCi/g	1.03E+01	5.80E+00	8.73E+00					07/20/15 14:04	2.45E+02	08/21/15 06:11	NO
05	TL-208	TRG	FEEBRIS1D-5 051-052	pCi/g	7.19E-01	2.43E-01	2.63E-01					07/20/15 14:04	2.45E+02	08/21/15 06:11	YES
06	AC-228	TRG	FEEBRIS1D-6 080-081	pCi/g	1.11E+00	2.48E-01	4.98E-01					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
06	BI-214	TRG	FEEBRIS1D-6 080-081	pCi/g	5.90E-01	2.22E-01	3.58E-01					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
06	K-40	TRG	FEEBRIS1D-6 080-081	pCi/g	3.51E+00	1.16E+00	1.29E+00					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
06	PA-231	TRG	FEEBRIS1D-6 080-081	pCi/g	9.69E-01	2.24E+00	3.19E+00					07/21/15 09:53	2.65E+02	08/21/15 07:16	NO
06	PB-210	TRG	FEEBRIS1D-6 080-081	pCi/g	3.64E+00	1.95E+00	3.26E+00					07/21/15 09:53	2.65E+02	08/21/15 07:16	NO
06	PB-212	TRG	FEEBRIS1D-6 080-081	pCi/g	9.00E-01	1.64E-01	2.87E-01					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
06	PB-214	TRG	FEEBRIS1D-6 080-081	pCi/g	5.55E-01	1.80E-01	2.95E-01					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
06	RA-226	TRG	FEEBRIS1D-6 080-081	pCi/g	5.90E-01	2.22E-01	3.58E-01					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
06	RA-228	TRG	FEEBRIS1D-6 080-081	pCi/g	1.11E+00	2.48E-01	4.98E-01					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
06	TH-234	TRG	FEEBRIS1D-6 080-081	pCi/g	2.06E+00	1.09E+00	1.93E+00					07/21/15 09:53	2.65E+02	08/21/15 07:16	NO
06	TL-208	TRG	FEEBRIS1D-6 080-081	pCi/g	8.59E-01	1.92E-01	2.44E-01					07/21/15 09:53	2.65E+02	08/21/15 07:16	YES
07	AC-228	TRG	FEEBRIS1D-6 085-086	pCi/g	4.73E-01	2.16E-01	4.93E-01					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
07	BI-214	TRG	FEEBRIS1D-6 085-086	pCi/g	4.95E-01	1.30E-01	2.00E-01					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
07	K-40	TRG	FEEBRIS1D-6 085-086	pCi/g	1.25E+01	1.97E+00	1.42E+00					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
07	PA-231	TRG	FEEBRIS1D-6 085-086	pCi/g	-5.50E-02	1.47E+00	2.46E+00					07/21/15 09:58	3.18E+02	08/21/15 08:19	NO
07	PB-210	TRG	FEEBRIS1D-6 085-086	pCi/g	2.27E+00	1.60E+00	2.31E+00					07/21/15 09:58	3.18E+02	08/21/15 08:19	NO
07	PB-212	TRG	FEEBRIS1D-6 085-086	pCi/g	5.66E-01	1.18E-01	2.38E-01					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
07	PB-214	TRG	FEEBRIS1D-6 085-086	pCi/g	4.31E-01	1.37E-01	2.64E-01					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
07	RA-226	TRG	FEEBRIS1D-6 085-086	pCi/g	4.95E-01	1.30E-01	2.00E-01					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
07	RA-228	TRG	FEEBRIS1D-6 085-086	pCi/g	4.73E-01	2.16E-01	4.93E-01					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
07	TH-234	TRG	FEEBRIS1D-6 085-086	pCi/g	3.07E+00	1.39E+00	2.10E+00					07/21/15 09:58	3.18E+02	08/21/15 08:19	NO
07	TL-208	TRG	FEEBRIS1D-6 085-086	pCi/g	5.06E-01	1.51E-01	1.83E-01					07/21/15 09:58	3.18E+02	08/21/15 08:19	YES
08	AC-228	TRG	FEEBRIS1D-7 093-094	pCi/g	6.08E-01	3.05E-01	5.07E-01					07/24/15 14:50	7.13E+02	08/21/15 06:27	YES
08	BI-214	TRG	FEEBRIS1D-7 093-094	pCi/g	1.50E+00	2.65E-01	2.22E-01					07/24/15 14:50	7.13E+02	08/21/15 06:27	YES
08	K-40	TRG	FEEBRIS1D-7 093-094	pCi/g	1.39E+01	2.50E+00	1.56E+00					07/24/15 14:50	7.13E+02	08/21/15 06:27	YES
08	PA-231	TRG	FEEBRIS1D-7 093-094	pCi/g	1.67E-01	2.16E+00	4.09E+00					07/24/15 14:50	7.13E+02	08/21/15 06:27	NO
08	PB-210	TRG	FEEBRIS1D-7 093-094	pCi/g	1.08E+00	7.11E-01	1.17E+00					07/24/15 14:50	7.13E+02	08/21/15 06:27	YES
08	PB-212	TRG	FEEBRIS1D-7 093-094	pCi/g	7.08E-01	1.74E-01	2.89E-01					07/24/15 14:50	7.13E+02	08/21/15 06:27	NO
08	PB-214	TRG	FEEBRIS1D-7 093-094	pCi/g	1.43E+00	2.39E-01	3.20E-01					07/24/15 14:50	7.13E+02	08/21/15 06:27	YES
08	RA-226	TRG	FEEBRIS1D-7 093-094	pCi/g	1.50E+00	2.65E-01	2.22E-01					07/24/15 14:50	7.13E+02	08/21/15 06:27	YES

0024

Work Order: 15-07182-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
08	RA-228	TRG	FEEBRIS1D-7 093-094	pCi/g	6.08E-01	3.05E-01	5.07E-01					07/24/15 14:50	7.13E+02	08/21/15 06:27	YES
08	TH-234	TRG	FEEBRIS1D-7 093-094	pCi/g	1.06E-01	6.34E-01	1.89E+00					07/24/15 14:50	7.13E+02	08/21/15 06:27	NO
08	TL-208	TRG	FEEBRIS1D-7 093-094	pCi/g	1.25E-01	2.55E-01	4.22E-01					07/24/15 14:50	7.13E+02	08/21/15 06:27	NO
09	AC-228	TRG	FEEBRIS1D-16 050-051	pCi/g	9.78E-01	6.48E-01	1.52E+00					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	BI-214	TRG	FEEBRIS1D-16 050-051	pCi/g	3.35E+01	2.16E+00	8.38E-01					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	K-40	TRG	FEEBRIS1D-16 050-051	pCi/g	9.09E+00	3.01E+00	4.33E+00					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	PA-231	TRG	FEEBRIS1D-16 050-051	pCi/g	1.37E+01	6.89E+00	1.52E+01					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	PB-210	TRG	FEEBRIS1D-16 050-051	pCi/g	6.05E+01	9.77E+00	1.73E+01					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	PB-212	TRG	FEEBRIS1D-16 050-051	pCi/g	6.63E-01	3.00E-01	1.18E+00					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	PB-214	TRG	FEEBRIS1D-16 050-051	pCi/g	4.33E+01	2.89E+00	9.79E-01					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	RA-226	TRG	FEEBRIS1D-16 050-051	pCi/g	3.35E+01	2.16E+00	8.38E-01					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	RA-228	TRG	FEEBRIS1D-16 050-051	pCi/g	9.78E-01	6.48E-01	1.52E+00					07/27/15 09:44	2.59E+02	08/21/15 08:19	YES
09	TH-234	TRG	FEEBRIS1D-16 050-051	pCi/g	2.05E+00	4.44E+00	6.61E+00					07/27/15 09:44	2.59E+02	08/21/15 08:19	NO
09	TL-208	TRG	FEEBRIS1D-16 050-051	pCi/g	1.02E+00	5.61E-01	5.80E-01					07/27/15 09:44	2.59E+02	08/21/15 08:19	NO
10	AC-228	TRG	FEEBRIS1D-16 059-061	pCi/g	6.62E-01	3.36E-01	6.99E-01					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
10	BI-214	TRG	FEEBRIS1D-16 059-061	pCi/g	5.77E-01	2.13E-01	2.98E-01					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
10	K-40	TRG	FEEBRIS1D-16 059-061	pCi/g	1.68E+01	2.90E+00	1.82E+00					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
10	PA-231	TRG	FEEBRIS1D-16 059-061	pCi/g	6.62E-01	2.21E+00	3.81E+00					07/27/15 10:14	6.93E+02	08/21/15 07:28	NO
10	PB-210	TRG	FEEBRIS1D-16 059-061	pCi/g	-1.37E-01	2.87E-01	1.01E+00					07/27/15 10:14	6.93E+02	08/21/15 07:28	NO
10	PB-212	TRG	FEEBRIS1D-16 059-061	pCi/g	7.48E-01	2.07E-01	2.95E-01					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
10	PB-214	TRG	FEEBRIS1D-16 059-061	pCi/g	5.89E-01	1.87E-01	3.21E-01					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
10	RA-226	TRG	FEEBRIS1D-16 059-061	pCi/g	5.77E-01	2.13E-01	2.98E-01					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
10	RA-228	TRG	FEEBRIS1D-16 059-061	pCi/g	6.62E-01	3.36E-01	6.99E-01					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
10	TH-234	TRG	FEEBRIS1D-16 059-061	pCi/g	2.75E-01	9.61E-01	1.47E+00					07/27/15 10:14	6.93E+02	08/21/15 07:28	NO
10	TL-208	TRG	FEEBRIS1D-16 059-061	pCi/g	5.58E-01	1.98E-01	2.12E-01					07/27/15 10:14	6.93E+02	08/21/15 07:28	YES
11	AC-228	TRG	DUPLICATE 4	pCi/g	5.87E-01	2.81E-01	5.88E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	BI-214	TRG	DUPLICATE 4	pCi/g	5.19E-01	1.70E-01	2.27E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	K-40	TRG	DUPLICATE 4	pCi/g	1.70E+01	2.88E+00	1.64E+00					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	PA-231	TRG	DUPLICATE 4	pCi/g	-6.39E-02	1.82E+00	3.49E+00					07/27/15 10:14	7.00E+02	08/21/15 08:34	NO
11	PB-210	TRG	DUPLICATE 4	pCi/g	3.74E-01	6.19E-01	9.79E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	NO
11	PB-212	TRG	DUPLICATE 4	pCi/g	5.51E-01	1.77E-01	2.60E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	PB-214	TRG	DUPLICATE 4	pCi/g	5.54E-01	1.99E-01	3.78E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	RA-226	TRG	DUPLICATE 4	pCi/g	5.19E-01	1.70E-01	2.27E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	RA-228	TRG	DUPLICATE 4	pCi/g	5.87E-01	2.81E-01	5.88E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	TH-234	TRG	DUPLICATE 4	pCi/g	7.91E-01	8.99E-01	1.50E+00					07/27/15 10:14	7.00E+02	08/21/15 08:34	YES
11	TL-208	TRG	DUPLICATE 4	pCi/g	6.02E-01	2.39E-01	4.56E-01					07/27/15 10:14	7.00E+02	08/21/15 08:34	NO

00245

Count Room Report
Client: AMO Environmental Decisio

15-07182-Gamma-1 (pCi/g) in SO
Tracer ID:

Printed: 7/31/2015 8:08 AM

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	07/30/15 00:00	1.0000				0.00		
02	MBL	BLANK	07/30/15 00:00	1.0000				0.00		
03	DUP	FEEBRIS1D-5 063-064	07/20/15 14:28	434.8300				0.00		
04	DO	FEEBRIS1D-5 063-064	07/20/15 14:28	434.8400				0.00		
05	TRG	FEEBRIS1D-5 051-052	07/20/15 14:04	244.8700				0.00		
06	TRG	FEEBRIS1D-6 080-081	07/21/15 09:53	264.5600				0.00		
07	TRG	FEEBRIS1D-6 085-086	07/21/15 09:58	317.9100				0.00		
08	TRG	FEEBRIS1D-7 093-094	07/24/15 14:50	712.5100				0.00		
09	TRG	FEEBRIS1D-16 050-051	07/27/15 09:44	258.6500				0.00		
10	TRG	FEEBRIS1D-16 059-061	07/27/15 10:14	693.2690				0.00		
11	TRG	DUPLICATE 4	07/27/15 10:14	699.5200				0.00		

95200

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 7/31/2015 8:08 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-07182	1	Gamma	grams	8/21/2015	KSALLINGS

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-5 063-064	DUP					4.3483E+02	4.3483E+02				
04	FEEBRIS1D-5 063-064	DO					4.3484E+02	4.3484E+02				
05	FEEBRIS1D-5 051-052	TRG					2.4487E+02	2.4487E+02				
06	FEEBRIS1D-6 080-081	TRG					2.6456E+02	2.6456E+02				
07	FEEBRIS1D-6 085-086	TRG					3.1791E+02	3.1791E+02				
08	FEEBRIS1D-7 093-094	TRG					7.1251E+02	7.1251E+02				
09	FEEBRIS1D-16 050-051	TRG					2.5865E+02	2.5865E+02				
10	FEEBRIS1D-16 059-061	TRG					6.9327E+02	6.9327E+02				
11	DUPLICATE 4	TRG					6.9952E+02	6.9952E+02				

Comments	

00247

Technician: Kerry Sallings Date: 7,31,15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 7/31/2015 7:20 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-07182	8/21/2015	7/30/2015	7/31/2015	8/1/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-5 063-064	29.2700	1123.9200	777.3600	1094.6500	748.0900	31.66%	68.34%	0.0000	0.0000	
05	FEEBRIS1D-5 051-052	29.3100	1091.9200	686.1800	1062.6100	656.8700	38.18%	61.82%	0.0000	0.0000	
06	FEEBRIS1D-6 080-081	29.4000	1125.0400	767.9300	1095.6400	738.5300	32.59%	67.41%	0.0000	0.0000	
07	FEEBRIS1D-6 085-086	29.4200	1233.7000	1004.0000	1204.2800	974.5800	19.07%	80.93%	0.0000	0.0000	
08	FEEBRIS1D-7 093-094	29.1500	1073.4800	879.2200	1044.3300	850.0700	18.60%	81.40%	0.0000	0.0000	
09	FEEBRIS1D-16 050-051	29.1900	1349.3000	972.3000	1320.1100	943.1100	28.56%	71.44%	0.0000	0.0000	
10	FEEBRIS1D-16 059-061	29.3300	1553.6600	1241.9600	1524.3300	1212.6300	20.45%	79.55%	0.0000	0.0000	
11	DUPLICATE 4	29.3400	1200.8000	972.0200	1171.4600	942.6800	19.53%	80.47%	0.0000	0.0000	

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

00248

Technician: Kenny Sallings

Date: **Analysis: Rough Prep Logbook**

Analysis: Gamma Page No. 9359

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404•352•8677
Fax 404•352•2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty*, % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

Apex-Gamma

Analysis Report for 1507182-01
GAS-1302

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 6:42:43AM
Acquisition Started	: 8/20/2015 7:37:14AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1828.6 seconds
Dead Time	: 1.57 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 17 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26148

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AC
8/21/15

00250

Analysis Report for 1507182-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 8/20/2015 8:07:47AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	32.27	32.63	0.0000	0.00
2	49.78	50.13	0.0000	0.00
3	59.52	59.87	0.0000	0.00
4	68.61	68.95	0.0000	0.00
5	84.48	84.82	0.0000	0.00
6	88.12	88.46	0.0000	0.00
7	91.66	92.00	0.0000	0.00
8	122.11	122.43	0.0000	0.00
9	136.48	136.80	0.0000	0.00
10	165.91	166.23	0.0000	0.00
11	310.06	310.33	0.0000	0.00
12	337.44	337.69	0.0000	0.00
13	391.60	391.83	0.0000	0.00
14	504.98	505.17	0.0000	0.00
15	511.73	511.93	0.0000	0.00
16	661.65	661.79	0.0000	0.00
17	820.20	820.29	0.0000	0.00
18	898.07	898.13	0.0000	0.00
19	1173.18	1173.14	0.0000	0.00
20	1180.04	1180.00	0.0000	0.00
21	1332.42	1332.32	0.0000	0.00
22	1474.15	1474.00	0.0000	0.00
23	1484.26	1484.11	0.0000	0.00
24	1575.87	1575.69	0.0000	0.00
25	1599.92	1599.72	0.0000	0.00
26	1643.10	1642.89	0.0000	0.00
27	1837.15	1836.86	0.0000	0.00
28	1923.73	1923.41	0.0000	0.00
29	1926.63	1926.31	0.0000	0.00
30	2072.01	2071.64	0.0000	0.00
31	2267.66	2267.22	0.0000	0.00
32	2276.97	2276.52	0.0000	0.00
33	2286.65	2286.19	0.0000	0.00
34	2309.01	2308.55	0.0000	0.00
35	2328.82	2328.35	0.0000	0.00
36	2388.42	2387.93	0.0000	0.00
37	2505.27	2504.73	0.0000	0.00
38	2613.55	2612.96	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/20/2015 8:07:47AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	32.27	31 -	35	32.63	2.24E+03	238.88	1.07E+04	1.99
M	2	49.78	45 -	64	50.13	5.25E+03	331.50	1.71E+04	1.41
m	3	59.52	45 -	64	59.87	8.93E+04	680.70	1.74E+04	1.43
	4	68.61	67 -	72	68.95	7.37E+02	380.38	2.83E+04	4.56
M	5	84.48	83 -	95	84.82	1.32E+03	266.82	1.87E+04	2.16
m	6	88.12	83 -	95	88.46	4.85E+04	519.48	1.71E+04	1.57
m	7	91.66	83 -	95	92.00	6.64E+02	235.31	9.24E+03	1.35
	8	122.11	119 -	126	122.43	1.09E+04	384.61	1.73E+04	1.91
	9	136.48	133 -	140	136.80	1.35E+03	308.69	1.50E+04	1.38
	10	165.91	163 -	170	166.23	1.73E+03	299.81	1.38E+04	1.44
	11	310.06	309 -	312	310.33	1.13E+02	136.65	4.56E+03	0.98
	12	337.44	336 -	340	337.69	1.61E+02	157.12	5.36E+03	2.34
	13	391.60	389 -	394	391.83	7.99E+02	182.18	6.01E+03	1.46
	14	504.98	503 -	508	505.17	1.28E+02	151.83	4.52E+03	3.13
	15	511.73	509 -	515	511.93	1.86E+02	174.56	5.41E+03	1.58
	16	661.65	656 -	667	661.79	3.37E+04	434.90	6.79E+03	1.84
	17	820.20	816 -	824	820.29	3.36E+02	176.04	4.57E+03	2.35
	18	898.07	894 -	902	898.13	5.97E+02	203.23	5.99E+03	1.59
M	19	1173.18	1167 -	1183	1173.14	3.03E+04	356.62	1.52E+03	2.13
m	20	1180.04	1167 -	1183	1180.00	7.28E+01	91.25	1.21E+03	2.08
	21	1332.42	1326 -	1337	1332.32	2.77E+04	347.21	1.21E+03	2.16
M	22	1474.15	1473 -	1487	1474.00	1.87E+01	15.56	6.00E+01	2.20
m	23	1484.26	1473 -	1487	1484.11	2.78E+01	29.36	1.40E+02	2.43
	24	1575.87	1571 -	1579	1575.69	3.89E+01	36.36	1.78E+02	3.26
	25	1599.92	1596 -	1603	1599.72	3.06E+01	33.59	1.67E+02	3.97
	26	1643.10	1638 -	1649	1642.89	5.96E+01	40.25	1.69E+02	8.36
	27	1837.15	1831 -	1856	1836.86	3.89E+02	83.88	3.74E+02	2.60
M	28	1923.73	1922 -	1928	1923.41	1.03E+01	9.33	1.91E+01	2.07
m	29	1926.63	1922 -	1928	1926.31	2.19E+01	15.68	2.84E+01	1.75
	30	2072.01	2066 -	2077	2071.64	3.70E+01	26.91	7.20E+01	1.08
M	31	2267.66	2263 -	2292	2267.22	1.94E+01	26.56	1.09E+02	4.38
m	32	2276.97	2263 -	2292	2276.52	1.70E+01	25.95	9.70E+01	2.99
m	33	2286.65	2263 -	2292	2286.19	2.39E+01	33.88	1.09E+02	4.02
	34	2309.01	2304 -	2312	2308.55	1.80E+01	18.28	4.00E+01	2.70
	35	2328.82	2324 -	2331	2328.35	2.09E+01	18.55	4.22E+01	3.68
	36	2388.42	2385 -	2391	2387.93	1.23E+01	9.19	5.47E+00	2.05
	37	2505.27	2499 -	2510	2504.73	3.83E+02	39.75	5.72E+00	2.43
	38	2613.55	2609 -	2615	2612.96	2.05E+01	11.69	9.00E+00	2.53

Analysis Report for 1507182-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/20/2015 8:07:47AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	32.27	31 -	35	2.24E+03	238.88	1.07E+04	1.80E+02
M	2	49.78	45 -	64	5.25E+03	331.50	1.71E+04	2.15E+02
m	3	59.52	45 -	64	8.93E+04	680.70	1.74E+04	2.17E+02
	4	68.61	67 -	72	7.37E+02	380.38	2.83E+04	3.09E+02
M	5	84.48	83 -	95	1.32E+03	266.82	1.87E+04	2.25E+02
m	6	88.12	83 -	95	4.85E+04	519.48	1.71E+04	2.15E+02
m	7	91.66	83 -	95	6.64E+02	235.31	9.24E+03	1.58E+02
	8	122.11	119 -	126	1.09E+04	384.61	1.73E+04	2.66E+02
	9	136.48	133 -	140	1.35E+03	308.69	1.50E+04	2.46E+02
	10	165.91	163 -	170	1.73E+03	299.81	1.38E+04	2.37E+02
	11	310.06	309 -	312	1.13E+02	136.65	4.56E+03	1.11E+02
	12	337.44	336 -	340	1.61E+02	157.12	5.36E+03	1.27E+02
	13	391.60	389 -	394	7.99E+02	182.18	6.01E+03	1.42E+02
	14	504.98	503 -	508	1.28E+02	151.83	4.52E+03	1.23E+02
	15	511.73	509 -	515	1.86E+02	174.56	5.41E+03	1.42E+02
	16	661.65	656 -	667	3.37E+04	434.90	6.79E+03	1.92E+02
	17	820.20	816 -	824	3.36E+02	176.04	4.57E+03	1.42E+02
	18	898.07	894 -	902	5.97E+02	203.23	5.99E+03	1.62E+02
M	19	1173.18	1167 -	1183	3.03E+04	356.62	1.52E+03	6.42E+01
m	20	1180.04	1167 -	1183	7.28E+01	91.25	1.21E+03	5.73E+01
	21	1332.42	1326 -	1337	2.77E+04	347.21	1.21E+03	8.09E+01
M	22	1474.15	1473 -	1487	1.87E+01	15.56	6.00E+01	1.27E+01
m	23	1484.26	1473 -	1487	2.78E+01	29.36	1.40E+02	1.95E+01
	24	1575.87	1571 -	1579	3.89E+01	36.36	1.78E+02	2.81E+01
	25	1599.92	1596 -	1603	3.06E+01	33.59	1.67E+02	2.61E+01
	26	1643.10	1638 -	1649	5.96E+01	40.25	1.69E+02	3.06E+01
	27	1837.15	1831 -	1856	3.89E+02	83.88	3.74E+02	1.72E+01
M	28	1923.73	1922 -	1928	1.03E+01	9.33	1.91E+01	7.19E+00
m	29	1926.63	1922 -	1928	2.19E+01	15.68	2.84E+01	8.76E+00
	30	2072.01	2066 -	2077	3.70E+01	26.91	7.20E+01	1.97E+01
M	31	2267.66	2263 -	2292	1.94E+01	26.56	1.09E+02	1.72E+01

Analysis Report for 1507182-01

GAS-1302

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	32	2276.97	2263 -	2292	1.70E+01	25.95	9.70E+01	1.62E+01
m	33	2286.65	2263 -	2292	2.39E+01	33.88	1.09E+02	1.72E+01
	34	2309.01	2304 -	2312	1.80E+01	18.28	4.00E+01	1.33E+01
	35	2328.82	2324 -	2331	2.09E+01	18.55	4.22E+01	1.33E+01
	36	2388.42	2385 -	2391	1.23E+01	9.19	5.47E+00	4.89E+00
	37	2505.27	2499 -	2510	3.83E+02	39.75	5.72E+00	5.66E+00
	38	2613.55	2609 -	2615	2.05E+01	11.69	9.00E+00	6.08E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/20/2015 8:07:47AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	32.27	31 -	35	32.63	2.24E+03	238.88	1.07E+04	.....
M	2	49.78	45 -	64	50.13	5.25E+03	331.50	1.71E+04	TE-132
									TH-227
m	3	59.52	45 -	64	59.87	8.93E+04	680.70	1.74E+04	AM-241
	4	68.61	67 -	72	68.95	7.37E+02	380.38	2.83E+04	TI-44
									TA-182
									TH-230
M	5	84.48	83 -	95	84.82	1.32E+03	266.82	1.87E+04	TH-231
m	6	88.12	83 -	95	88.46	4.85E+04	519.48	1.71E+04	CD-109
									LU-176
									SN-126
m	7	91.66	83 -	95	92.00	6.64E+02	235.31	9.24E+03	ND-147
	8	122.11	119 -	126	122.43	1.09E+04	384.61	1.73E+04	CO-57
									EU-152
									EU-154
									SE-75
	9	136.48	133 -	140	136.80	1.35E+03	308.69	1.50E+04	CO-57
									SE-75
	10	165.91	163 -	170	166.23	1.73E+03	299.81	1.38E+04	CE-139

Analysis Report for 1507182-01

GAS-1302

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	11	310.06	309 -	312	310.33	1.13E+02	136.65	4.56E+03	.....
	12	337.44	336 -	340	337.69	1.61E+02	157.12	5.36E+03	AC-228
	13	391.60	389 -	394	391.83	7.99E+02	182.18	6.01E+03	SN-113
	14	504.98	503 -	508	505.17	1.28E+02	151.83	4.52E+03	.....
	15	511.73	509 -	515	511.93	1.86E+02	174.56	5.41E+03	.....
	16	661.65	656 -	667	661.79	3.37E+04	434.90	6.79E+03	CS-137
	17	820.20	816 -	824	820.29	3.36E+02	176.04	4.57E+03	.....
	18	898.07	894 -	902	898.13	5.97E+02	203.23	5.99E+03	Y-88
M	19	1173.18	1167 -	1183	1173.14	3.03E+04	356.62	1.52E+03	CO-60
m	20	1180.04	1167 -	1183	1180.00	7.28E+01	91.25	1.21E+03	.....
	21	1332.42	1326 -	1337	1332.32	2.77E+04	347.21	1.21E+03	CO-60
M	22	1474.15	1473 -	1487	1474.00	1.87E+01	15.56	6.00E+01	.....
m	23	1484.26	1473 -	1487	1484.11	2.78E+01	29.36	1.40E+02	.....
	24	1575.87	1571 -	1579	1575.69	3.89E+01	36.36	1.78E+02	.....
	25	1599.92	1596 -	1603	1599.72	3.06E+01	33.59	1.67E+02	.....
	26	1643.10	1638 -	1649	1642.89	5.96E+01	40.25	1.69E+02	.....
	27	1837.15	1831 -	1856	1836.86	3.89E+02	83.88	3.74E+02	.....
M	28	1923.73	1922 -	1928	1923.41	1.03E+01	9.33	1.91E+01	.....
m	29	1926.63	1922 -	1928	1926.31	2.19E+01	15.68	2.84E+01	.....
	30	2072.01	2066 -	2077	2071.64	3.70E+01	26.91	7.20E+01	.....
M	31	2267.66	2263 -	2292	2267.22	1.94E+01	26.56	1.09E+02	.....
m	32	2276.97	2263 -	2292	2276.52	1.70E+01	25.95	9.70E+01	.....
m	33	2286.65	2263 -	2292	2286.19	2.39E+01	33.88	1.09E+02	.....
	34	2309.01	2304 -	2312	2308.55	1.80E+01	18.28	4.00E+01	.....
	35	2328.82	2324 -	2331	2328.35	2.09E+01	18.55	4.22E+01	.....
	36	2388.42	2385 -	2391	2387.93	1.23E+01	9.19	5.47E+00	.....
	37	2505.27	2499 -	2510	2504.73	3.83E+02	39.75	5.72E+00	.....
	38	2613.55	2609 -	2615	2612.96	2.05E+01	11.69	9.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/20/2015 8:07:47AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	32.27	2.24E+03	238.88	6.19E-03	1.78E-03
M	2	49.78	5.25E+03	331.50	1.89E-02	1.78E-03

Analysis Report for 1507182-01

GAS-1302

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	3	59.52	8.93E+04	680.70	2.36E-02	1.78E-03
	4	68.61	7.37E+02	380.38	2.63E-02	2.09E-03
M	5	84.48	1.32E+03	266.82	2.84E-02	2.62E-03
m	6	88.12	4.85E+04	519.48	2.85E-02	2.74E-03
m	7	91.66	6.64E+02	235.31	2.86E-02	2.67E-03
	8	122.11	1.09E+04	384.61	2.72E-02	2.07E-03
	9	136.48	1.35E+03	308.69	2.61E-02	2.10E-03
	10	165.91	1.73E+03	299.81	2.38E-02	2.18E-03
	11	310.06	1.13E+02	136.65	1.61E-02	1.28E-03
	12	337.44	1.61E+02	157.12	1.52E-02	1.22E-03
	13	391.60	7.99E+02	182.18	1.37E-02	1.11E-03
	14	504.98	1.28E+02	151.83	1.13E-02	9.97E-04
	15	511.73	1.86E+02	174.56	1.12E-02	9.90E-04
	16	661.65	3.37E+04	434.90	9.22E-03	8.34E-04
	17	820.20	3.36E+02	176.04	7.77E-03	6.92E-04
	18	898.07	5.97E+02	203.23	7.23E-03	6.22E-04
M	19	1173.18	3.03E+04	356.62	5.85E-03	4.79E-04
m	20	1180.04	7.28E+01	91.25	5.83E-03	4.78E-04
	21	1332.42	2.77E+04	347.21	5.31E-03	4.51E-04
M	22	1474.15	1.87E+01	15.56	4.94E-03	4.16E-04
m	23	1484.26	2.78E+01	29.36	4.92E-03	4.13E-04
	24	1575.87	3.89E+01	36.36	4.72E-03	3.91E-04
	25	1599.92	3.06E+01	33.59	4.67E-03	3.85E-04
	26	1643.10	5.96E+01	40.25	4.59E-03	3.74E-04
	27	1837.15	3.89E+02	83.88	4.30E-03	3.26E-04
M	28	1923.73	1.03E+01	9.33	4.19E-03	3.26E-04
m	29	1926.63	2.19E+01	15.68	4.19E-03	3.26E-04
	30	2072.01	3.70E+01	26.91	4.05E-03	3.26E-04
M	31	2267.66	1.94E+01	26.56	3.91E-03	3.26E-04
m	32	2276.97	1.70E+01	25.95	3.91E-03	3.26E-04
m	33	2286.65	2.39E+01	33.88	3.90E-03	3.26E-04
	34	2309.01	1.80E+01	18.28	3.89E-03	3.26E-04
	35	2328.82	2.09E+01	18.55	3.88E-03	3.26E-04
	36	2388.42	1.23E+01	9.19	3.85E-03	3.26E-04
	37	2505.27	3.83E+02	39.75	3.82E-03	3.26E-04
	38	2613.55	2.05E+01	11.69	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/20/2015 8:07:47AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Analysis Report for 1507182-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	32.27	2.24E+03	238.88			2.24E+03	2.39E+02
M	2	49.78	5.25E+03	331.50			5.25E+03	3.31E+02
m	3	59.52	8.93E+04	680.70	4.64E+00	1.85E+00	8.93E+04	6.81E+02
	4	68.61	7.37E+02	380.38			7.37E+02	3.80E+02
M	5	84.48	1.32E+03	266.82	0.00E+00	0.00E+00	1.32E+03	2.67E+02
m	6	88.12	4.85E+04	519.48			4.85E+04	5.19E+02
m	7	91.66	6.64E+02	235.31			6.64E+02	2.35E+02
	8	122.11	1.09E+04	384.61			1.09E+04	3.85E+02
	9	136.48	1.35E+03	308.69			1.35E+03	3.09E+02
	10	165.91	1.73E+03	299.81			1.73E+03	3.00E+02
	11	310.06	1.13E+02	136.65			1.13E+02	1.37E+02
	12	337.44	1.61E+02	157.12			1.61E+02	1.57E+02
	13	391.60	7.99E+02	182.18			7.99E+02	1.82E+02
	14	504.98	1.28E+02	151.83			1.28E+02	1.52E+02
	15	511.73	1.86E+02	174.56	3.91E+01	2.73E+00	1.47E+02	1.75E+02
	16	661.65	3.37E+04	434.90			3.37E+04	4.35E+02
	17	820.20	3.36E+02	176.04			3.36E+02	1.76E+02
	18	898.07	5.97E+02	203.23	6.46E-01	1.53E+00	5.97E+02	2.03E+02
M	19	1173.18	3.03E+04	356.62	8.34E-02	1.30E+00	3.03E+04	3.57E+02
m	20	1180.04	7.28E+01	91.25			7.28E+01	9.12E+01
	21	1332.42	2.77E+04	347.21	7.06E-01	9.35E-01	2.77E+04	3.47E+02
M	22	1474.15	1.87E+01	15.56			1.87E+01	1.56E+01
m	23	1484.26	2.78E+01	29.36			2.78E+01	2.94E+01
	24	1575.87	3.89E+01	36.36			3.89E+01	3.64E+01
	25	1599.92	3.06E+01	33.59			3.06E+01	3.36E+01
	26	1643.10	5.96E+01	40.25			5.96E+01	4.02E+01
	27	1837.15	3.89E+02	83.88			3.89E+02	8.39E+01
M	28	1923.73	1.03E+01	9.33			1.03E+01	9.33E+00
m	29	1926.63	2.19E+01	15.68			2.19E+01	1.57E+01
	30	2072.01	3.70E+01	26.91			3.70E+01	2.69E+01
M	31	2267.66	1.94E+01	26.56			1.94E+01	2.66E+01
m	32	2276.97	1.70E+01	25.95			1.70E+01	2.59E+01
m	33	2286.65	2.39E+01	33.88			2.39E+01	3.39E+01
	34	2309.01	1.80E+01	18.28			1.80E+01	1.83E+01
	35	2328.82	2.09E+01	18.55			2.09E+01	1.85E+01
	36	2388.42	1.23E+01	9.19			1.23E+01	9.19E+00
	37	2505.27	3.83E+02	39.75			3.83E+02	3.97E+01
	38	2613.55	2.05E+01	11.69	2.57E+00	7.52E-01	1.79E+01	1.17E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-01

GAS-1302

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/20/2015 8:07:47AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	32.27	2.24E+03	238.88			2.24E+03	2.39E+02
M	2	49.78	5.25E+03	331.50			5.25E+03	3.31E+02
m	3	59.52	8.93E+04	680.70	4.64E+00	1.85E+00	8.93E+04	6.81E+02
	4	68.61	7.37E+02	380.38			7.37E+02	3.80E+02
M	5	84.48	1.32E+03	266.82	0.00E+00	0.00E+00	1.32E+03	2.67E+02
m	6	88.12	4.85E+04	519.48			4.85E+04	5.19E+02
m	7	91.66	6.64E+02	235.31			6.64E+02	2.35E+02
	8	122.11	1.09E+04	384.61			1.09E+04	3.85E+02
	9	136.48	1.35E+03	308.69			1.35E+03	3.09E+02
	10	165.91	1.73E+03	299.81			1.73E+03	3.00E+02
	11	310.06	1.13E+02	136.65			1.13E+02	1.37E+02
	12	337.44	1.61E+02	157.12			1.61E+02	1.57E+02
	13	391.60	7.99E+02	182.18			7.99E+02	1.82E+02
	14	504.98	1.28E+02	151.83			1.28E+02	1.52E+02
	15	511.73	1.86E+02	174.56	3.91E+01	2.73E+00	1.47E+02	1.75E+02
	16	661.65	3.37E+04	434.90			3.37E+04	4.35E+02
	17	820.20	3.36E+02	176.04			3.36E+02	1.76E+02
	18	898.07	5.97E+02	203.23	6.46E-01	1.53E+00	5.97E+02	2.03E+02
M	19	1173.18	3.03E+04	356.62	8.34E-02	1.30E+00	3.03E+04	3.57E+02
m	20	1180.04	7.28E+01	91.25			7.28E+01	9.12E+01
	21	1332.42	2.77E+04	347.21	7.06E-01	9.35E-01	2.77E+04	3.47E+02
M	22	1474.15	1.87E+01	15.56			1.87E+01	1.56E+01
m	23	1484.26	2.78E+01	29.36			2.78E+01	2.94E+01
	24	1575.87	3.89E+01	36.36			3.89E+01	3.64E+01
	25	1599.92	3.06E+01	33.59			3.06E+01	3.36E+01
	26	1643.10	5.96E+01	40.25			5.96E+01	4.02E+01
	27	1837.15	3.89E+02	83.88			3.89E+02	8.39E+01
M	28	1923.73	1.03E+01	9.33			1.03E+01	9.33E+00
m	29	1926.63	2.19E+01	15.68			2.19E+01	1.57E+01
	30	2072.01	3.70E+01	26.91			3.70E+01	2.69E+01
M	31	2267.66	1.94E+01	26.56			1.94E+01	2.66E+01
m	32	2276.97	1.70E+01	25.95			1.70E+01	2.59E+01
m	33	2286.65	2.39E+01	33.88			2.39E+01	3.39E+01
	34	2309.01	1.80E+01	18.28			1.80E+01	1.83E+01
	35	2328.82	2.09E+01	18.55			2.09E+01	1.85E+01
	36	2388.42	1.23E+01	9.19			1.23E+01	9.19E+00
	37	2505.27	3.83E+02	39.75			3.83E+02	3.97E+01
	38	2613.55	2.05E+01	11.69	2.57E+00	7.52E-01	1.79E+01	1.17E+01

Analysis Report for 1507182-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.959	122.06	*	85.51	7.02E+01	5.92E+00
		136.48	*	10.60	7.29E+01	1.79E+01
CO-60	0.999	1173.22	*	100.00	1.40E+02	1.16E+01
		1332.49	*	100.00	1.41E+02	1.21E+01
CD-109	0.985	88.03	*	3.72	2.99E+03	3.39E+02
SN-113	0.751	255.12		1.93		
		391.69	*	64.90	2.01E+02	4.92E+01
SN-126	0.953	87.57	*	37.00	9.37E+01	9.06E+00
CS-137	1.000	661.65	*	85.12	9.20E+01	8.43E+00
CE-139	0.851	165.85	*	80.35	9.38E+01	1.83E+01
TH-231	0.375	25.64		14.70		
		84.21	*	6.40	1.49E+01	3.30E+00
AM-241	1.000	59.54	*	35.90	2.16E+02	1.64E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/20/2015 8:07:47AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1507182-01

GAS-1302

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.27	1.24247E+00	5.34		
M	2	49.78	2.91503E+00	3.16	Tol.	TE-132
						TH-227
	4	68.61	4.09193E-01	25.82	Tol.	TI-44
						TA-182
						TH-230
m	7	91.66	3.68669E-01	17.73	Tol.	ND-147
	11	310.06	6.29266E-02	60.32	D-Esc	
	12	337.44	8.95065E-02	48.76	Tol.	AC-228
	14	504.98	7.11669E-02	59.26		
	15	511.73	8.15967E-02	59.43		
	17	820.20	1.86697E-01	26.19		
	18	898.07	3.31403E-01	17.03	Tol.	Y-88
m	20	1180.04	4.04657E-02	62.64		
M	22	1474.15	1.03662E-02	41.69		
m	23	1484.26	1.54206E-02	52.89		
	24	1575.87	2.16146E-02	46.73		
	25	1599.92	1.70029E-02	54.87		
	26	1643.10	3.31231E-02	33.75		
	27	1837.15	2.16012E-01	10.79		
M	28	1923.73	5.71333E-03	45.35		
m	29	1926.63	1.21923E-02	35.72		
	30	2072.01	2.05556E-02	36.36		
M	31	2267.66	1.07781E-02	68.44		
m	32	2276.97	9.44115E-03	76.34		
m	33	2286.65	1.33055E-02	70.74		
	34	2309.01	9.99269E-03	50.82		
	35	2328.82	1.16071E-02	44.39		
	36	2388.42	6.81481E-03	37.47		
	37	2505.27	2.12857E-01	5.19	Sum	
	38	2613.55	9.95930E-03	32.68		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1507182-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.95	122.06	*	85.51	7.02E+01	5.92E+00
		136.48	*	10.60	7.29E+01	1.79E+01
CO-60	0.99	1173.22	*	100.00	1.40E+02	1.16E+01
		1332.49	*	100.00	1.41E+02	1.21E+01
CD-109	0.98	88.03	*	3.72	2.99E+03	3.39E+02
SN-113	0.75	255.12		1.93		
		391.69	*	64.90	2.01E+02	4.92E+01
SN-126	0.95	87.57	*	37.00	9.37E+01	9.06E+00
CS-137	1.00	661.65	*	85.12	9.20E+01	8.43E+00
CE-139	0.85	165.85	*	80.35	9.38E+01	1.83E+01
TH-231	0.37	25.64		14.70		
		84.21	*	6.40	1.49E+01	3.30E+00
AM-241	1.00	59.54	*	35.90	2.16E+02	1.64E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.959	7.05E+01	5.63E+00	
	CO-60	0.999	1.40E+02	8.36E+00	
?	CD-109	0.985	2.99E+03	3.39E+02	
	SN-113	0.751	2.01E+02	4.92E+01	
?	SN-126	0.953	9.37E+01	9.06E+00	
	CS-137	1.000	9.20E+01	8.43E+00	
	CE-139	0.851	9.38E+01	1.83E+01	
	TH-231	0.375	1.49E+01	3.30E+00	
	AM-241	1.000	2.16E+02	1.64E+01	

Analysis Report for 1507182-01

GAS-1302

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-01

GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/20/2015 8:07:47AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.27	1.24247E+00	5.34		
M	2	49.78	2.91503E+00	3.16	Tol.	TE-132
						TH-227
	4	68.61	4.09193E-01	25.82	Tol.	TI-44
						TA-182
						TH-230
m	7	91.66	3.68669E-01	17.73	Tol.	ND-147
	11	310.06	6.29266E-02	60.32	D-Esc	
	12	337.44	8.95065E-02	48.76	Tol.	AC-228
	14	504.98	7.11669E-02	59.26		
	15	511.73	8.15967E-02	59.43		
	17	820.20	1.86697E-01	26.19		
	18	898.07	3.31403E-01	17.03	Tol.	Y-88
m	20	1180.04	4.04657E-02	62.64		
M	22	1474.15	1.03662E-02	41.69		
m	23	1484.26	1.54206E-02	52.89		
	24	1575.87	2.16146E-02	46.73		
	25	1599.92	1.70029E-02	54.87		
	26	1643.10	3.31231E-02	33.75		
	27	1837.15	2.16012E-01	10.79		
M	28	1923.73	5.71333E-03	45.35		
m	29	1926.63	1.21923E-02	35.72		
	30	2072.01	2.05556E-02	36.36		
M	31	2267.66	1.07781E-02	68.44		
m	32	2276.97	9.44115E-03	76.34		
m	33	2286.65	1.33055E-02	70.74		
	34	2309.01	9.99269E-03	50.82		
	35	2328.82	1.16071E-02	44.39		
	36	2388.42	6.81481E-03	37.47		
	37	2505.27	2.12857E-01	5.19	Sum	
	38	2613.55	9.95930E-03	32.68		

Analysis Report for 1507182-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	6.01E+04	1.14E+05	1.14E+05
+		NA-22	1274.54		99.94	-2.72E-01	4.73E-01	4.73E-01
+	@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09		99.86	0.00E+00		1.00E+26
+		AL-26	1808.65		99.76	5.34E-02	1.76E-01	1.76E-01
+		K-40	1460.81		10.67	4.45E-01	1.98E+00	1.98E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	1.13E+00	4.01E-01	4.42E-01
			78.34		96.00	7.91E-02		4.01E-01
+		SC-46	889.25		99.98	-9.90E+01	3.80E+02	3.89E+02
			1120.51		99.99	4.72E+01		3.80E+02
+		V-48	983.52		99.98	6.32E+13	1.53E+14	3.24E+14
			1312.10		97.50	-2.04E+13		1.53E+14
+		CR-51	320.08		9.83	1.62E+07	9.94E+08	9.94E+08
+		MN-54	834.83		99.97	9.20E-01	3.18E+00	3.18E+00
+		CO-56	846.75		99.96	-2.61E+02	2.24E+02	5.45E+02
			1037.75		14.03	-3.53E+02		4.32E+03
			1238.25		67.00	-2.61E+01		4.63E+02
			1771.40		15.51	-4.24E+02		1.09E+03
			2598.48		16.90	-5.08E+01		2.24E+02
+		CO-57	122.06	*	85.51	7.02E+01	3.44E+00	3.44E+00
			136.48	*	10.60	7.29E+01		2.69E+01
+		CO-58	810.76		99.40	6.24E+02	1.11E+03	1.11E+03
+		FE-59	1099.22		56.50	7.37E+04	1.14E+05	2.14E+05
			1291.56		43.20	-7.25E+04		1.14E+05
+		CO-60	1173.22	*	100.00	1.40E+02	8.37E-01	1.52E+00
			1332.49	*	100.00	1.41E+02		8.37E-01
+		ZN-65	1115.52		50.75	1.62E+00	1.13E+01	1.13E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	4.15E+03	4.38E+01	2.43E+02

Analysis Report for 1507182-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		SE-75	136.00		59.20	1.66E+02	4.38E+01	4.38E+01
			264.65		59.80	5.23E-01		4.80E+01
			279.53		25.20	-1.50E+01		1.14E+02
			400.65		11.40	-4.01E+01		2.91E+02
+		RB-82	776.52		13.00	8.24E+07	6.10E+09	6.10E+09
+		RB-83	520.41		46.00	-8.83E+01	4.93E+02	4.93E+02
			529.64		30.30	1.25E+02		7.62E+02
			552.65		16.40	9.14E+01		1.40E+03
+		KR-85	513.99		0.43	8.48E+00	1.21E+02	1.21E+02
+		SR-85	513.99		99.27	1.35E+02	1.93E+03	1.93E+03
+		Y-88	898.02		93.40	2.86E+02	7.36E+01	1.23E+02
			1836.01		99.38	2.69E+02		7.36E+01
+		NB-93M	16.57		9.43	-5.21E+03	4.57E+02	4.57E+02
+		NB-94	702.63		100.00	3.68E-01	4.71E-01	4.71E-01
			871.10		100.00	-1.99E-03		6.02E-01
+		NB-95	765.79		99.81	9.92E+04	2.47E+06	2.47E+06
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	-1.50E+03	4.13E+03	5.07E+03
			756.72		55.30	7.01E+02		4.13E+03
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	-1.90E+04	4.51E+05	4.51E+05
+		RU-106	621.84		9.80	1.89E+00	1.99E+01	1.99E+01
+		AG-108M	433.93		89.90	-4.88E-01	5.03E-01	5.07E-01
			614.37		90.40	-8.74E-02		5.03E-01
			722.95		90.50	-1.22E-02		5.33E-01
+		CD-109	88.03	*	3.72	2.99E+03	5.88E+01	5.88E+01
+		AG-110M	657.75		93.14	-9.36E+01	7.42E+00	1.13E+01
			677.61		10.53	-6.27E-01		3.70E+01
			706.67		16.46	-1.07E+01		2.45E+01
			763.93		21.98	-4.91E-01		1.95E+01
			884.67		71.63	1.32E+00		7.42E+00
			1384.27		23.94	-3.64E+00		7.80E+00
+		CD-113M	263.70		0.02	6.70E+01	1.52E+03	1.52E+03
+		SN-113	255.12		1.93	-2.90E+02	7.25E+01	1.79E+03
			391.69	*	64.90	2.01E+02		7.25E+01
+		TE123M	159.00		84.10	-2.37E+00	2.85E+01	2.85E+01
+		SB-124	602.71		97.87	-4.99E+02	2.87E+03	3.54E+03
			645.85		7.26	-2.46E+04		5.04E+04
			722.78		11.10	-7.82E+02		3.42E+04
			1691.02		49.00	4.28E+02		2.87E+03
+		I-125	35.49		6.49	6.03E+04	1.08E+05	1.08E+05
+		SB-125	176.33		6.89	-3.19E+00	2.65E+00	6.63E+00
			427.89		29.33	1.25E+00		2.65E+00
			463.38		10.35	8.16E+00		8.31E+00
			600.56		17.80	8.45E-01		4.18E+00
			635.90		11.32	-1.08E+00		6.74E+00

Analysis Report for 1507182-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		SB-126	414.70		83.30	9.81E+17	3.94E+18	4.54E+18
			666.33		99.60	2.98E+17		7.41E+18
			695.00		99.60	-2.18E+18		3.94E+18
			720.50		53.80	1.27E+18		7.64E+18
+		SN-126	87.57	*	37.00	9.37E+01	1.84E+00	1.84E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-9.97E+00	3.06E+00	3.06E+00
			33.60		13.20	2.99E+01		8.88E+00
			39.58		7.52	-3.20E+01		8.92E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26
+	@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@		228.16		88.00	1.00E+26		1.00E+26
+		BA-133	81.00		33.00	-1.25E+00	6.42E-01	1.30E+00
			302.84		17.80	9.84E-01		2.11E+00
			356.01		60.00	-3.47E-01		6.42E-01
+	@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+	@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26
+		CS-134	563.23		8.38	2.48E+00	9.19E-01	1.07E+01
			569.32		15.43	1.59E+00		5.82E+00
			604.70		97.60	-7.39E-01		9.19E-01
			795.84		85.40	7.99E-02		1.25E+00
			801.93		8.73	-8.00E-01		1.22E+01
+		CS-135	268.24		16.00	9.93E-01	1.96E+00	1.96E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	-7.89E+16	3.93E+17	2.42E+18
			163.89		4.61	1.01E+17		4.52E+18
			176.55		13.56	-6.63E+17		1.38E+18
			273.65		12.66	6.91E+16		1.72E+18
			340.57		48.50	-9.97E+16		4.77E+17
			818.50		99.70	3.56E+17		3.93E+17
			1048.07		79.60	2.94E+17		5.66E+17
			1235.34		19.70	-8.83E+15		1.18E+18
+		CS-137	661.65	*	85.12	9.20E+01	1.06E+00	1.06E+00
+		LA-138	788.74		34.00	-4.26E-01	2.95E-01	1.50E+00
			1435.80		66.00	-1.56E-01		2.95E-01
+		CE-139	165.85	*	80.35	9.38E+01	2.58E+01	2.58E+01
+		BA-140	162.64		6.70	-1.95E+18	3.94E+18	9.10E+18
			304.84		4.50	4.42E+18		1.65E+19
			423.70		3.20	-7.71E+18		3.21E+19
			437.55		2.00	1.97E+18		5.27E+19
			537.32		25.00	4.37E+17		3.94E+18

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Analysis Report for 1507182-01

GAS-1302

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		LA-140	328.77	20.50	-1.11E+18	4.95E+17	3.62E+18
			487.03	45.50	-1.20E+18		2.21E+18
			815.85	23.50	4.68E+17		5.26E+18
			1596.49	95.49	-5.56E+16		4.95E+17
+		CE-141	145.44	48.40	-3.18E+06	8.70E+06	8.70E+06
+	@	CE-143	57.36	11.80	1.00E+26	1.00E+26	1.00E+26
	@		293.26	42.00	1.00E+26		1.00E+26
	@		664.55	5.20	1.00E+26		1.00E+26
+		CE-144	133.54	10.80	-1.03E+02	1.61E+01	1.61E+01
+		PM-144	476.78	42.00	4.10E-01	2.00E+00	5.07E+00
			618.01	98.60	-7.49E-01		2.00E+00
			696.49	99.49	-1.72E-01		2.05E+00
+		PM-145	36.85	21.70	4.69E+00	2.08E+00	3.89E+00
			37.36	39.70	9.74E-01		2.08E+00
			42.30	15.10	-3.37E+00		4.73E+00
			72.40	2.31	1.07E+00		1.80E+01
+		PM-146	453.90	39.94	3.80E-01	1.55E+00	1.55E+00
			735.90	14.01	1.57E+00		4.48E+00
			747.13	13.10	9.92E-02		4.83E+00
+	@	ND-147	91.11	28.90	1.00E+26	1.00E+26	1.00E+26
	@		531.02	13.10	1.00E+26		1.00E+26
+	@	PM-149	285.90	3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78	20.50	4.38E+01	1.59E+00	2.43E+00
			244.69	5.40	2.63E+00		6.58E+00
			344.27	19.13	-9.57E-03		1.95E+00
			778.89	9.20	5.70E-01		6.20E+00
			964.01	10.40	-5.22E-02		7.45E+00
			1085.78	7.22	-1.77E+00		9.96E+00
			1112.02	9.60	-1.18E+00		7.57E+00
			1407.95	14.94	-1.49E-02		1.59E+00
+		GD-153	97.43	31.30	7.80E+00	7.63E+00	7.63E+00
			103.18	22.20	4.81E+00		1.08E+01
+		EU-154	123.07	40.50	2.30E+01	8.92E-01	1.30E+00
			723.30	19.70	-6.56E-02		2.87E+00
			873.19	11.50	-3.00E+00		6.17E+00
			996.32	10.30	-1.57E+00		7.43E+00
			1004.76	17.90	4.38E-01		4.21E+00
			1274.45	35.50	-5.13E-01		8.92E-01
+		EU-155	86.50	30.90	1.37E+02	1.67E+00	3.48E+00
			105.30	20.70	4.14E-01		1.67E+00
+		EU-156	811.77	10.40	-3.04E+14	1.14E+16	1.47E+16
			1153.47	7.20	-1.07E+16		2.02E+16
			1230.71	8.90	2.05E+15		1.14E+16
+		HO-166M	184.41	72.60	1.64E-01	3.95E-01	3.95E-01
			280.45	29.60	-5.37E-02		1.06E+00
			410.94	11.10	-2.13E+00		3.89E+00
			711.69	54.10	3.06E-01		8.64E-01
+		TM-171	66.72	0.14	-8.09E+02	6.22E+02	6.22E+02
+		HF-172	81.75	4.52	-7.30E+00	5.06E+00	1.85E+01

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Analysis Report for 1507182-01

GAS-1302

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		HF-172	125.81	11.30	-1.05E+00	5.06E+00	5.06E+00
+	@	LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06	16.63	1.00E+26		1.00E+26
	@		912.12	15.25	1.00E+26		1.00E+26
	@		1093.66	62.50	1.00E+26		1.00E+26
+		LU-173	100.72	5.24	-1.07E+01	4.30E+00	1.43E+01
			272.11	21.20	-2.84E+00		4.30E+00
+		HF-175	343.40	84.00	-1.13E+02	8.99E+02	8.99E+02
+		LU-176	88.34	13.30	2.44E+02	3.39E-01	5.89E+00
			201.83	86.00	1.66E-02		3.47E-01
			306.78	94.00	-1.18E-01		3.39E-01
+		TA-182	67.75	41.20	2.87E+02	1.12E+02	1.12E+02
			1121.30	34.90	-5.86E+01		1.91E+02
			1189.05	16.23	-3.54E+01		3.08E+02
			1221.41	26.98	-5.89E+01		1.53E+02
			1231.02	11.44	6.25E+01		3.48E+02
+		IR-192	308.46	29.68	-3.75E+02	1.54E+03	1.62E+03
			468.07	48.10	-3.61E+02		1.54E+03
+		HG-203	279.19	77.30	-2.96E+03	4.43E+04	4.43E+04
+		BI-207	569.67	97.72	6.47E-02	4.65E-01	4.65E-01
			1063.62	74.90	-1.08E-01		8.94E-01
+		TL-208	583.14	30.22	1.16E+00	4.16E-01	1.45E+00
			860.37	4.48	-3.79E+00		1.31E+01
			2614.66	35.85	3.75E-02		4.16E-01
+		BI-210M	262.00	45.00	4.99E-02	6.99E-01	6.99E-01
			300.00	23.00	1.45E-01		1.40E+00
+		PB-210	46.50	4.25	-1.24E+02	1.77E+01	1.77E+01
+		PB-211	404.84	2.90	3.15E+00	1.27E+01	1.27E+01
			831.96	2.90	-1.08E+01		1.89E+01
+		BI-212	727.17	11.80	8.05E-01	4.05E+00	4.05E+00
			1620.62	2.75	4.64E+00		7.50E+00
+		PB-212	238.63	44.60	4.23E-01	7.26E-01	7.26E-01
			300.09	3.41	9.76E-01		9.44E+00
+		BI-214	609.31	46.30	6.19E-01	9.89E-01	9.89E-01
			1120.29	15.10	4.95E-01		3.98E+00
			1764.49	15.80	1.94E-02		1.16E+00
			2204.22	4.98	1.29E+00		4.24E+00
+		PB-214	295.21	19.19	4.18E-01	9.20E-01	1.66E+00
			351.92	37.19	3.90E-01		9.20E-01
+		RN-219	401.80	6.50	-2.37E+00	5.55E+00	5.55E+00
+		RA-223	323.87	3.88	1.34E+00	8.39E+00	8.39E+00
+		RA-224	240.98	3.95	2.14E+00	8.20E+00	8.20E+00
+		RA-225	40.00	31.00	-5.55E+16	1.55E+16	1.55E+16
+		RA-226	186.21	3.28	6.34E+00	8.94E+00	8.94E+00
+		TH-227	50.10	8.40	4.44E+01	2.75E+00	9.24E+00
			236.00	11.50	-1.84E+00		2.75E+00
			256.20	6.30	-1.71E+00		5.00E+00
+		AC-228	338.32	11.40	2.55E+00	2.40E+00	2.96E+00

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Analysis Report for 1507182-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	911.07		27.70	5.73E-01	2.40E+00	2.40E+00
		969.11		16.60	-1.57E+00		4.00E+00
+	TH-230	48.44		16.90	1.24E+01	4.59E+00	4.59E+00
		62.85		4.60	-8.36E+02		1.31E+01
		67.67		0.37	2.83E+02		1.10E+02
+	PA-231	283.67		1.60	-4.02E+00	1.42E+01	1.96E+01
		302.67		2.30	6.61E+00		1.42E+01
+	TH-231	25.64		14.70	-1.67E+03	1.08E+01	6.87E+01
		84.21	*	6.40	1.49E+01		1.08E+01
+	PA-233	311.98		38.60	-4.52E+07	4.21E+08	4.21E+08
+	PA-234	131.20		20.40	2.80E-01	1.23E+00	1.23E+00
		733.99		8.80	-2.59E+00		5.36E+00
		946.00		12.00	-2.14E+00		5.98E+00
+	PA-234M	1001.03		0.92	-5.27E+00	7.02E+01	7.02E+01
+	TH-234	63.29		3.80	-1.43E+01	1.09E+01	1.09E+01
+	U-235	143.76		10.50	-6.93E-01	2.40E+00	2.40E+00
		163.35		4.70	1.42E-01		6.35E+00
		205.31		4.70	-3.76E+00		6.38E+00
+	NP-237	86.50		12.60	2.50E+02	6.33E+00	6.33E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	2.16E+02	3.77E+00	3.77E+00
+	AM-243	74.67		66.00	-5.59E-01	5.72E-01	5.72E-01
+	CM-243	209.75		3.29	3.33E-01	2.37E+00	9.95E+00
		228.14		10.60	1.14E+00		3.20E+00
		277.60		14.00	5.52E-01		2.37E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

00269

Analysis Report for 1507182-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.14E+05	1.14E+05	6.01E+04	5.64E+04
	NA-22	1274.54		99.94	4.73E-01	4.73E-01	-2.72E-01	2.28E-01
@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09		99.86	1.00E+26		0.00E+00	1.00E+20
	AL-26	1808.65		99.76	1.76E-01	1.76E-01	5.34E-02	8.14E-02
	K-40	1460.81		10.67	1.98E+00	1.98E+00	4.45E-01	9.39E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.42E-01	4.01E-01	1.13E+00	2.20E-01
		78.34		96.00	4.01E-01		7.91E-02	1.99E-01
	SC-46	889.25		99.98	3.89E+02	3.80E+02	-9.90E+01	1.92E+02
		1120.51		99.99	3.80E+02		4.72E+01	1.87E+02
	V-48	983.52		99.98	3.24E+14	1.53E+14	6.32E+13	1.60E+14
		1312.10		97.50	1.53E+14		-2.04E+13	7.40E+13
	CR-51	320.08		9.83	9.94E+08	9.94E+08	1.62E+07	4.92E+08
	MN-54	834.83		99.97	3.18E+00	3.18E+00	9.20E-01	1.57E+00
	CO-56	846.75		99.96	5.45E+02	2.24E+02	-2.61E+02	2.69E+02
		1037.75		14.03	4.32E+03		-3.53E+02	2.13E+03
		1238.25		67.00	4.63E+02		-2.61E+01	2.25E+02
		1771.40		15.51	1.09E+03		-4.24E+02	5.05E+02
		2598.48		16.90	2.24E+02		-5.08E+01	7.09E+01
+	CO-57	122.06	*	85.51	3.44E+00	3.44E+00	7.02E+01	1.71E+00
		136.48	*	10.60	2.69E+01		7.29E+01	1.34E+01
	CO-58	810.76		99.40	1.11E+03	1.11E+03	6.24E+02	5.49E+02
	FE-59	1099.22		56.50	2.14E+05	1.14E+05	7.37E+04	1.06E+05
		1291.56		43.20	1.14E+05		-7.25E+04	5.50E+04
+	CO-60	1173.22	*	100.00	1.52E+00	8.37E-01	1.40E+02	7.53E-01
		1332.49	*	100.00	8.37E-01		1.41E+02	4.12E-01
	ZN-65	1115.52		50.75	1.13E+01	1.13E+01	1.62E+00	5.55E+00
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	2.43E+02	4.38E+01	4.15E+03	1.21E+02
		136.00		59.20	4.38E+01		1.66E+02	2.17E+01
		264.65		59.80	4.80E+01		5.23E-01	2.38E+01
		279.53		25.20	1.14E+02		-1.50E+01	5.62E+01
		400.65		11.40	2.91E+02		-4.01E+01	1.44E+02
	RB-82	776.52		13.00	6.10E+09	6.10E+09	8.24E+07	3.01E+09
	RB-83	520.41		46.00	4.93E+02	4.93E+02	-8.83E+01	2.44E+02
		529.64		30.30	7.62E+02		1.25E+02	3.77E+02
		552.65		16.40	1.40E+03		9.14E+01	6.92E+02
	KR-85	513.99		0.43	1.21E+02	1.21E+02	8.48E+00	6.00E+01
	SR-85	513.99		99.27	1.93E+03	1.93E+03	1.35E+02	9.56E+02
	Y-88	898.02		93.40	1.23E+02	7.36E+01	2.86E+02	6.06E+01
		1836.01		99.38	7.36E+01		2.69E+02	3.58E+01
	NB-93M	16.57		9.43	4.57E+02	4.57E+02	-5.21E+03	2.25E+02
	NB-94	702.63		100.00	4.71E-01	4.71E-01	3.68E-01	2.32E-01
		871.10		100.00	6.02E-01		-1.99E-03	2.97E-01
	NB-95	765.79		99.81	2.47E+06	2.47E+06	9.92E+04	1.22E+06
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	5.07E+03	4.13E+03	-1.50E+03	2.50E+03
		756.72		55.30	4.13E+03		7.01E+02	2.04E+03

Analysis Report for 1507182-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	4.51E+05	4.51E+05	-1.90E+04	2.23E+05
	RU-106	621.84		9.80	1.99E+01	1.99E+01	1.89E+00	9.80E+00
	AG-108M	433.93		89.90	5.07E-01	5.03E-01	-4.88E-01	2.51E-01
		614.37		90.40	5.03E-01		-8.74E-02	2.49E-01
		722.95		90.50	5.33E-01		-1.22E-02	2.63E-01
+	CD-109	88.03	*	3.72	5.88E+01	5.88E+01	2.99E+03	2.93E+01
	AG-110M	657.75		93.14	1.13E+01	7.42E+00	-9.36E+01	5.63E+00
		677.61		10.53	3.70E+01		-6.27E-01	1.83E+01
		706.67		16.46	2.45E+01		-1.07E+01	1.21E+01
		763.93		21.98	1.95E+01		-4.91E-01	9.63E+00
		884.67		71.63	7.42E+00		1.32E+00	3.66E+00
		1384.27		23.94	7.80E+00		-3.64E+00	3.71E+00
	CD-113M	263.70		0.02	1.52E+03	1.52E+03	6.70E+01	7.50E+02
+	SN-113	255.12		1.93	1.79E+03	7.25E+01	-2.90E+02	8.87E+02
		391.69	*	64.90	7.25E+01		2.01E+02	3.59E+01
	TE123M	159.00		84.10	2.85E+01	2.85E+01	-2.37E+00	1.41E+01
	SB-124	602.71		97.87	3.54E+03	2.87E+03	-4.99E+02	1.75E+03
		645.85		7.26	5.04E+04		-2.46E+04	2.49E+04
		722.78		11.10	3.42E+04		-7.82E+02	1.69E+04
		1691.02		49.00	2.87E+03		4.28E+02	1.33E+03
	I-125	35.49		6.49	1.08E+05	1.08E+05	6.03E+04	5.36E+04
	SB-125	176.33		6.89	6.63E+00	2.65E+00	-3.19E+00	3.29E+00
		427.89		29.33	2.65E+00		1.25E+00	1.31E+00
		463.38		10.35	8.31E+00		8.16E+00	4.12E+00
		600.56		17.80	4.18E+00		8.45E-01	2.06E+00
		635.90		11.32	6.74E+00		-1.08E+00	3.33E+00
	SB-126	414.70		83.30	4.54E+18	3.94E+18	9.81E+17	2.25E+18
		666.33		99.60	7.41E+18		2.98E+17	3.68E+18
		695.00		99.60	3.94E+18		-2.18E+18	1.94E+18
		720.50		53.80	7.64E+18		1.27E+18	3.77E+18
+	SN-126	87.57	*	37.00	1.84E+00	1.84E+00	9.37E+01	9.19E-01
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	3.06E+00	3.06E+00	-9.97E+00	1.52E+00
		33.60		13.20	8.88E+00		2.99E+01	4.41E+00
		39.58		7.52	8.92E+00		-3.20E+01	4.43E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	1.30E+00	6.42E-01	-1.25E+00	6.48E-01
		302.84		17.80	2.11E+00		9.84E-01	1.04E+00
		356.01		60.00	6.42E-01		-3.47E-01	3.18E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	1.07E+01	9.19E-01	2.48E+00	5.29E+00
		569.32		15.43	5.82E+00		1.59E+00	2.87E+00

Analysis Report for 1507182-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-134	604.70		97.60	9.19E-01	9.19E-01	-7.39E-01	4.54E-01
		795.84		85.40	1.25E+00		7.99E-02	6.18E-01
		801.93		8.73	1.22E+01		-8.00E-01	6.02E+00
	CS-135	268.24		16.00	1.96E+00	1.96E+00	9.93E-01	9.72E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.42E+18	3.93E+17	-7.89E+16	1.20E+18
		163.89		4.61	4.52E+18		1.01E+17	2.24E+18
		176.55		13.56	1.38E+18		-6.63E+17	6.83E+17
		273.65		12.66	1.72E+18		6.91E+16	8.49E+17
		340.57		48.50	4.77E+17		-9.97E+16	2.36E+17
		818.50		99.70	3.93E+17		3.56E+17	1.94E+17
		1048.07		79.60	5.66E+17		2.94E+17	2.79E+17
		1235.34		19.70	1.18E+18		-8.83E+15	5.74E+17
+	CS-137	661.65	*	85.12	1.06E+00	1.06E+00	9.20E+01	5.24E-01
	LA-138	788.74		34.00	1.50E+00	2.95E-01	-4.26E-01	7.40E-01
		1435.80		66.00	2.95E-01		-1.56E-01	1.39E-01
+	CE-139	165.85	*	80.35	2.58E+01	2.58E+01	9.38E+01	1.28E+01
	BA-140	162.64		6.70	9.10E+18	3.94E+18	-1.95E+18	4.51E+18
		304.84		4.50	1.65E+19		4.42E+18	8.15E+18
		423.70		3.20	3.21E+19		-7.71E+18	1.59E+19
		437.55		2.00	5.27E+19		1.97E+18	2.61E+19
		537.32		25.00	3.94E+18		4.37E+17	1.95E+18
	LA-140	328.77		20.50	3.62E+18	4.95E+17	-1.11E+18	1.79E+18
		487.03		45.50	2.21E+18		-1.20E+18	1.09E+18
		815.85		23.50	5.26E+18		4.68E+17	2.59E+18
		1596.49		95.49	4.95E+17		-5.56E+16	2.33E+17
	CE-141	145.44		48.40	8.70E+06	8.70E+06	-3.18E+06	4.31E+06
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	1.61E+01	1.61E+01	-1.03E+02	7.97E+00
	PM-144	476.78		42.00	5.07E+00	2.00E+00	4.10E-01	2.51E+00
		618.01		98.60	2.00E+00		-7.49E-01	9.89E-01
		696.49		99.49	2.05E+00		-1.72E-01	1.01E+00
	PM-145	36.85		21.70	3.89E+00	2.08E+00	4.69E+00	1.93E+00
		37.36		39.70	2.08E+00		9.74E-01	1.03E+00
		42.30		15.10	4.73E+00		-3.37E+00	2.35E+00
		72.40		2.31	1.80E+01		1.07E+00	8.95E+00
	PM-146	453.90		39.94	1.55E+00	1.55E+00	3.80E-01	7.69E-01
		735.90		14.01	4.48E+00		1.57E+00	2.21E+00
		747.13		13.10	4.83E+00		9.92E-02	2.38E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	2.43E+00	1.59E+00	4.38E+01	1.21E+00
		244.69		5.40	6.58E+00		2.63E+00	3.26E+00
		344.27		19.13	1.95E+00		-9.57E-03	9.66E-01
		778.89		9.20	6.20E+00		5.70E-01	3.06E+00
		964.01		10.40	7.45E+00		-5.22E-02	3.68E+00
		1085.78		7.22	9.96E+00		-1.77E+00	4.91E+00
		1112.02		9.60	7.57E+00		-1.18E+00	3.73E+00

Analysis Report for 1507182-01

GAS-1302

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
EU-152	1407.95	14.94	1.59E+00	1.59E+00	-1.49E-02	7.54E-01
GD-153	97.43	31.30	7.63E+00	7.63E+00	7.80E+00	3.79E+00
	103.18	22.20	1.08E+01		4.81E+00	5.37E+00
EU-154	123.07	40.50	1.30E+00	8.92E-01	2.30E+01	6.47E-01
	723.30	19.70	2.87E+00		-6.56E-02	1.41E+00
	873.19	11.50	6.17E+00		-3.00E+00	3.05E+00
	996.32	10.30	7.43E+00		-1.57E+00	3.67E+00
	1004.76	17.90	4.21E+00		4.38E-01	2.08E+00
	1274.45	35.50	8.92E-01		-5.13E-01	4.29E-01
EU-155	86.50	30.90	3.48E+00	1.67E+00	1.37E+02	1.73E+00
	105.30	20.70	1.67E+00		4.14E-01	8.30E-01
EU-156	811.77	10.40	1.47E+16	1.14E+16	-3.04E+14	7.26E+15
	1153.47	7.20	2.02E+16		-1.07E+16	9.90E+15
	1230.71	8.90	1.14E+16		2.05E+15	5.54E+15
HO-166M	184.41	72.60	3.95E-01	3.95E-01	1.64E-01	1.96E-01
	280.45	29.60	1.06E+00		-5.37E-02	5.24E-01
	410.94	11.10	3.89E+00		-2.13E+00	1.92E+00
	711.69	54.10	8.64E-01		3.06E-01	4.26E-01
TM-171	66.72	0.14	6.22E+02	6.22E+02	-8.09E+02	3.09E+02
HF-172	81.75	4.52	1.85E+01	5.06E+00	-7.30E+00	9.18E+00
	125.81	11.30	5.06E+00		-1.05E+00	2.51E+00
@ LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	810.06	16.63	1.00E+26		1.00E+26	1.00E+20
@	912.12	15.25	1.00E+26		1.00E+26	1.00E+20
@	1093.66	62.50	1.00E+26		1.00E+26	1.00E+20
LU-173	100.72	5.24	1.43E+01	4.30E+00	-1.07E+01	7.12E+00
	272.11	21.20	4.30E+00		-2.84E+00	2.13E+00
HF-175	343.40	84.00	8.99E+02	8.99E+02	-1.13E+02	4.45E+02
LU-176	88.34	13.30	5.89E+00	3.39E-01	2.44E+02	2.94E+00
	201.83	86.00	3.47E-01		1.66E-02	1.72E-01
	306.78	94.00	3.39E-01		-1.18E-01	1.68E-01
TA-182	67.75	41.20	1.12E+02	1.12E+02	2.87E+02	5.55E+01
	1121.30	34.90	1.91E+02		-5.86E+01	9.41E+01
	1189.05	16.23	3.08E+02		-3.54E+01	1.50E+02
	1221.41	26.98	1.53E+02		-5.89E+01	7.45E+01
	1231.02	11.44	3.48E+02		6.25E+01	1.69E+02
IR-192	308.46	29.68	1.62E+03	1.54E+03	-3.75E+02	7.99E+02
	468.07	48.10	1.54E+03		-3.61E+02	7.63E+02
HG-203	279.19	77.30	4.43E+04	4.43E+04	-2.96E+03	2.19E+04
BI-207	569.67	97.72	4.65E-01	4.65E-01	6.47E-02	2.30E-01
	1063.62	74.90	8.94E-01		-1.08E-01	4.41E-01
TL-208	583.14	30.22	1.45E+00	4.16E-01	1.16E+00	7.16E-01
	860.37	4.48	1.31E+01		-3.79E+00	6.45E+00
	2614.66	35.85	4.16E-01		3.75E-02	1.88E-01
BI-210M	262.00	45.00	6.99E-01	6.99E-01	4.99E-02	3.46E-01
	300.00	23.00	1.40E+00		1.45E-01	6.92E-01
PB-210	46.50	4.25	1.77E+01	1.77E+01	-1.24E+02	8.81E+00
PB-211	404.84	2.90	1.27E+01	1.27E+01	3.15E+00	6.26E+00
	831.96	2.90	1.89E+01		-1.08E+01	9.35E+00
BI-212	727.17	11.80	4.05E+00	4.05E+00	8.05E-01	2.00E+00
	1620.62	2.75	7.50E+00		4.64E+00	3.53E+00
PB-212	238.63	44.60	7.26E-01	7.26E-01	4.23E-01	3.60E-01
	300.09	3.41	9.44E+00		9.76E-01	4.67E+00

Analysis Report for 1507182-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BI-214	609.31		46.30	9.89E-01	9.89E-01	6.19E-01	4.88E-01
		1120.29		15.10	3.98E+00		4.95E-01	1.96E+00
		1764.49		15.80	1.16E+00		1.94E-02	5.39E-01
		2204.22		4.98	4.24E+00		1.29E+00	1.98E+00
	PB-214	295.21		19.19	1.66E+00	9.20E-01	4.18E-01	8.24E-01
		351.92		37.19	9.20E-01		3.90E-01	4.55E-01
	RN-219	401.80		6.50	5.55E+00	5.55E+00	-2.37E+00	2.75E+00
	RA-223	323.87		3.88	8.39E+00	8.39E+00	1.34E+00	4.15E+00
	RA-224	240.98		3.95	8.20E+00	8.20E+00	2.14E+00	4.07E+00
	RA-225	40.00		31.00	1.55E+16	1.55E+16	-5.55E+16	7.68E+15
	RA-226	186.21		3.28	8.94E+00	8.94E+00	6.34E+00	4.43E+00
	TH-227	50.10		8.40	9.24E+00	2.75E+00	4.44E+01	4.61E+00
		236.00		11.50	2.75E+00		-1.84E+00	1.36E+00
		256.20		6.30	5.00E+00		-1.71E+00	2.47E+00
	AC-228	338.32		11.40	2.96E+00	2.40E+00	2.55E+00	1.47E+00
		911.07		27.70	2.40E+00		5.73E-01	1.19E+00
		969.11		16.60	4.00E+00		-1.57E+00	1.98E+00
	TH-230	48.44		16.90	4.59E+00	4.59E+00	1.24E+01	2.29E+00
		62.85		4.60	1.31E+01		-8.36E+02	6.51E+00
		67.67		0.37	1.10E+02		2.83E+02	5.48E+01
	PA-231	283.67		1.60	1.96E+01	1.42E+01	-4.02E+00	9.69E+00
		302.67		2.30	1.42E+01		6.61E+00	7.00E+00
+	TH-231	25.64		14.70	6.87E+01	1.08E+01	-1.67E+03	3.43E+01
		84.21	*	6.40	1.08E+01		1.49E+01	5.36E+00
	PA-233	311.98		38.60	4.21E+08	4.21E+08	-4.52E+07	2.08E+08
	PA-234	131.20		20.40	1.23E+00	1.23E+00	2.80E-01	6.11E-01
		733.99		8.80	5.36E+00		-2.59E+00	2.64E+00
		946.00		12.00	5.98E+00		-2.14E+00	2.95E+00
	PA-234M	1001.03		0.92	7.02E+01	7.02E+01	-5.27E+00	3.47E+01
	TH-234	63.29		3.80	1.09E+01	1.09E+01	-1.43E+01	5.40E+00
	U-235	143.76		10.50	2.40E+00	2.40E+00	-6.93E-01	1.19E+00
		163.35		4.70	6.35E+00		1.42E-01	3.15E+00
		205.31		4.70	6.38E+00		-3.76E+00	3.16E+00
	NP-237	86.50		12.60	6.33E+00	6.33E+00	2.50E+02	3.15E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.77E+00	3.77E+00	2.16E+02	1.88E+00
	AM-243	74.67		66.00	5.72E-01	5.72E-01	-5.59E-01	2.84E-01
	CM-243	209.75		3.29	9.95E+00	2.37E+00	3.33E-01	4.93E+00
		228.14		10.60	3.20E+00		1.14E+00	1.59E+00
		277.60		14.00	2.37E+00		5.52E-01	1.17E+00

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

00274

Analysis Report for 1507182-01
GAS-1302

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1829

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	1	9	1064	2813	9016	67643	55293	7187
25:	25259	16467	2754	1276	1194	1009	1052	2145
33:	2054	1338	1018	1183	1375	1273	1307	1270
41:	1401	1580	1839	2068	2180	2443	2743	3356
49:	4646	5535	5301	5264	5196	5347	5461	5799
57:	6131	6784	18156	67120	15142	2525	2410	2373
65:	2014	2299	2531	2499	2578	2565	2373	2333
73:	2301	2324	2432	2347	2365	2534	2386	2412
81:	2377	2426	2518	2752	2665	2781	4120	24910
89:	22315	2273	1547	1601	1340	1139	1031	1107
97:	1111	1184	1186	1180	1115	1120	1153	1217
105:	1134	1154	1130	1118	1120	1094	1188	1125
113:	1119	1117	1145	1147	1179	1188	1139	1291
121:	1516	6427	5816	1230	1078	1033	1003	986
129:	1029	1018	968	978	931	976	946	1266
137:	1801	1052	932	923	917	965	891	871
145:	905	883	924	854	923	930	931	924
153:	919	889	883	903	889	867	887	928
161:	858	883	896	849	978	2012	1369	863
169:	818	842	840	852	852	808	823	839
177:	826	848	825	897	824	835	828	869
185:	963	932	929	908	961	909	950	866
193:	926	912	890	865	878	886	888	938
201:	811	879	910	896	881	863	848	888
209:	913	884	944	948	958	952	954	1003
217:	923	943	949	920	930	953	927	903
225:	902	927	907	891	857	850	851	828
233:	847	801	803	806	816	860	902	840
241:	808	835	791	818	797	785	772	744
249:	725	770	702	781	748	714	765	725
257:	714	717	769	700	695	694	746	689
265:	657	688	694	684	704	644	680	651
273:	631	627	658	690	644	637	620	669
281:	637	638	613	655	618	610	633	622
289:	630	633	614	612	586	641	658	597
297:	602	598	597	611	635	625	605	622
305:	613	590	590	571	557	669	576	591
313:	556	596	576	608	608	579	607	507
321:	602	592	569	542	554	560	568	544
329:	553	532	541	574	559	535	498	546
337:	582	611	575	525	564	545	519	553
345:	576	539	553	563	525	539	574	573
353:	556	524	530	519	497	537	540	532
361:	600	509	529	507	538	558	541	515

369:	526	523	553	522	575	511	535	552

Sample Title: GAS-1302

Channel								
377:	487	500	527	537	498	502	465	534
385:	500	543	493	493	484	575	633	969
393:	663	480	540	536	539	533	535	515
401:	522	504	512	496	537	518	550	527
409:	491	482	509	513	500	503	522	516
417:	483	544	510	507	516	519	508	531
425:	537	493	539	520	573	529	513	496
433:	509	502	516	523	500	542	546	509
441:	515	548	514	557	543	498	529	534
449:	548	479	528	509	514	505	543	553
457:	546	517	527	511	578	589	568	602
465:	556	610	544	557	541	533	554	544
473:	561	511	561	518	481	530	470	450
481:	486	439	437	439	443	392	365	404
489:	406	408	414	426	390	379	386	394
497:	408	395	332	378	369	361	369	410
505:	417	413	396	383	387	396	438	488
513:	399	412	369	405	349	358	365	353
521:	353	296	366	349	341	335	359	343
529:	371	366	356	327	345	355	352	356
537:	323	294	351	338	326	320	313	325
545:	326	322	296	307	335	332	338	354
553:	304	322	329	305	328	325	313	346
561:	315	307	311	332	304	348	322	305
569:	328	308	308	309	310	297	294	318
577:	300	286	270	327	279	276	316	340
585:	334	274	278	291	299	304	303	308
593:	260	297	306	272	278	291	302	279
601:	285	281	297	291	257	322	265	311
609:	339	336	314	302	303	312	271	291
617:	326	282	321	254	284	300	293	296
625:	284	254	296	286	296	294	301	280
633:	322	234	287	280	270	282	281	265
641:	294	299	288	301	277	298	264	290
649:	302	305	312	311	295	293	299	282
657:	284	324	409	1309	10893	17449	4303	639
665:	503	420	273	279	277	235	255	261
673:	267	245	238	244	253	230	281	259
681:	266	236	267	263	213	240	272	250
689:	242	274	254	251	248	238	248	267
697:	263	234	257	276	260	266	262	269
705:	264	256	244	235	251	248	272	259
713:	240	267	246	249	248	264	249	276
721:	231	278	256	259	270	247	261	265
729:	272	232	245	238	260	237	250	259
737:	244	285	251	254	242	254	276	252
745:	237	262	248	245	263	265	246	240
753:	254	252	260	251	274	240	283	227
761:	255	251	263	237	274	247	251	263
769:	246	256	251	297	270	250	266	274
777:	288	251	255	280	230	275	260	270
785:	270	270	262	243	260	264	241	269
793:	265	263	273	268	270	263	266	279

00277

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8/21/15

801:	266	255	268	229	267	240	282	264

Sample Title: GAS-1302

Channel								
809:	250	256	278	272	294	281	252	246
817:	288	283	276	321	357	306	276	266
825:	249	264	266	273	266	262	284	290
833:	286	274	266	323	296	285	276	294
841:	294	309	312	282	284	289	305	294
849:	285	273	309	282	279	269	297	306
857:	282	297	307	293	280	305	312	279
865:	338	324	319	315	312	325	307	278
873:	317	303	307	290	314	332	297	286
881:	291	326	318	298	311	293	284	331
889:	306	322	330	310	328	332	327	339
897:	452	652	451	343	359	337	333	334
905:	338	354	337	356	330	382	335	359
913:	370	318	307	372	338	321	323	359
921:	351	354	316	380	374	374	353	333
929:	359	382	372	376	384	388	346	351
937:	358	404	405	361	383	403	382	383
945:	393	392	393	400	343	389	408	408
953:	397	377	408	365	392	376	398	392
961:	386	381	342	352	324	314	348	338
969:	298	301	305	312	343	302	283	273
977:	281	324	295	297	290	277	310	275
985:	283	276	294	250	288	277	287	298
993:	280	273	292	304	301	273	280	279
1001:	306	280	308	260	286	261	276	249
1009:	261	251	250	256	259	282	273	263
1017:	282	292	292	271	265	259	286	274
1025:	283	254	262	273	247	244	272	263
1033:	259	249	247	274	255	274	256	245
1041:	243	254	270	254	239	277	250	259
1049:	292	285	244	237	240	254	242	244
1057:	251	245	211	279	234	262	266	239
1065:	231	259	277	265	264	268	261	268
1073:	224	236	267	282	256	263	245	242
1081:	254	266	236	265	262	240	240	237
1089:	257	244	252	232	250	241	233	259
1097:	270	252	250	246	269	258	239	273
1105:	241	237	285	256	246	269	252	259
1113:	229	236	214	236	228	224	196	207
1121:	180	188	208	181	188	185	176	169
1129:	160	174	168	188	163	154	185	147
1137:	150	163	175	141	175	149	138	143
1145:	151	139	171	154	115	136	149	120
1153:	114	147	139	155	173	145	130	162
1161:	145	139	143	147	135	150	151	155
1169:	143	219	836	5999	14138	8122	1351	407
1177:	305	167	117	134	100	129	89	112
1185:	99	109	108	114	103	89	82	94
1193:	97	102	76	92	98	97	81	80
1201:	102	75	76	104	92	85	87	77
1209:	77	72	76	73	58	73	76	63
1217:	68	78	61	75	45	62	69	64
1225:	78	70	65	68	65	62	56	57

1233:	52	55	48	51	53	54	48	49

Sample Title: GAS-1302

Channel								
1241:	42	49	46	42	43	41	56	56
1249:	41	37	41	42	52	38	35	38
1257:	40	44	41	40	38	43	20	31
1265:	52	42	38	39	46	36	34	24
1273:	31	37	32	28	36	37	33	37
1281:	35	45	37	38	44	42	42	31
1289:	35	29	35	27	40	25	37	34
1297:	38	36	28	48	37	28	36	41
1305:	35	39	37	44	46	35	36	27
1313:	38	43	36	35	40	39	34	43
1321:	41	48	49	40	47	43	57	53
1329:	97	525	4133	11859	9023	1950	316	183
1337:	82	30	27	39	25	22	23	31
1345:	21	15	28	22	12	31	22	18
1353:	26	20	22	34	19	10	16	12
1361:	14	19	24	20	19	17	15	25
1369:	19	19	24	22	13	19	18	20
1377:	23	16	26	24	19	20	15	23
1385:	12	15	19	14	23	12	21	21
1393:	20	17	22	20	16	18	12	12
1401:	21	19	19	20	14	21	16	19
1409:	14	16	18	12	18	21	15	11
1417:	17	19	20	14	17	22	22	21
1425:	12	19	12	16	12	17	8	19
1433:	22	14	11	10	13	12	13	17
1441:	22	12	17	17	15	21	21	14
1449:	15	11	16	21	17	14	19	10
1457:	17	11	15	17	23	16	12	16
1465:	11	18	14	14	22	12	17	11
1473:	9	18	11	20	20	16	13	12
1481:	12	9	12	22	12	14	9	11
1489:	15	12	12	17	19	10	14	8
1497:	20	17	14	12	14	11	17	15
1505:	14	11	8	11	16	15	13	11
1513:	14	12	20	13	10	11	11	18
1521:	15	13	7	9	19	21	14	16
1529:	17	15	18	12	9	11	12	12
1537:	7	11	19	11	17	12	19	10
1545:	18	13	8	12	10	12	10	17
1553:	19	13	18	15	15	7	15	15
1561:	13	17	14	14	7	14	12	18
1569:	12	12	10	14	13	15	17	16
1577:	22	15	6	12	14	12	7	12
1585:	16	10	17	13	17	13	8	21
1593:	12	13	9	13	12	14	19	19
1601:	14	17	6	14	6	19	7	19
1609:	10	14	10	9	11	13	11	10
1617:	12	13	17	13	14	12	9	8
1625:	7	12	19	9	10	6	7	7
1633:	9	12	20	9	9	8	16	10
1641:	16	17	18	15	11	9	12	8
1649:	4	8	8	11	14	8	9	15
1657:	8	11	6	15	6	7	8	18

1665:	9	13	13	9	17	7	9	7

Sample Title: GAS-1302

Channel								
1673:	9	9	8	9	8	8	10	7
1681:	4	8	8	11	7	3	10	6
1689:	9	11	10	4	12	9	10	8
1697:	5	8	9	12	11	10	11	6
1705:	5	9	13	8	10	6	8	2
1713:	9	15	4	13	8	12	7	7
1721:	4	10	9	6	8	9	8	9
1729:	8	8	10	16	11	5	7	9
1737:	9	8	8	10	3	7	14	7
1745:	8	12	7	4	5	7	10	5
1753:	10	5	9	7	12	12	9	5
1761:	8	10	8	11	10	10	5	11
1769:	9	8	8	7	6	8	16	8
1777:	8	6	8	10	6	5	7	13
1785:	7	8	8	10	11	15	6	11
1793:	11	14	8	4	7	5	5	11
1801:	7	5	3	10	4	5	9	9
1809:	12	9	7	5	7	4	5	8
1817:	11	9	9	13	6	8	8	16
1825:	8	10	6	7	4	9	4	5
1833:	10	62	123	133	56	10	13	12
1841:	7	7	10	14	12	10	12	10
1849:	13	10	6	7	4	15	9	2
1857:	13	12	6	13	4	11	10	9
1865:	7	6	6	10	13	7	10	10
1873:	6	7	5	13	5	4	5	9
1881:	5	9	10	8	5	8	10	9
1889:	5	4	4	8	11	10	6	8
1897:	9	12	8	4	7	9	3	10
1905:	6	7	9	10	6	7	8	10
1913:	3	6	5	11	6	5	6	10
1921:	6	5	13	6	7	16	8	1
1929:	3	8	8	7	5	9	4	10
1937:	7	12	7	3	9	9	10	6
1945:	5	6	8	4	11	7	7	3
1953:	4	5	10	8	6	4	4	10
1961:	8	10	9	5	10	7	10	7
1969:	7	9	10	8	8	5	8	9
1977:	6	3	5	7	5	7	6	5
1985:	6	4	3	6	9	6	6	7
1993:	7	6	6	6	3	9	8	2
2001:	6	6	8	7	10	4	3	2
2009:	5	8	9	7	5	6	7	8
2017:	8	6	7	6	3	2	7	3
2025:	6	8	7	7	12	7	7	5
2033:	5	2	9	4	11	7	7	11
2041:	11	8	9	13	7	9	7	8
2049:	5	11	4	8	7	5	6	7
2057:	8	8	7	7	3	4	7	8
2065:	3	3	5	5	3	17	5	9
2073:	5	6	9	5	1	5	5	8
2081:	12	6	4	7	11	10	5	11
2089:	5	4	15	8	7	5	5	6

2097:	9	9	7	3	4	8	6	5

Sample Title: GAS-1302

Channel								
2105:	5	5	4	6	3	7	5	9
2113:	8	5	7	3	9	4	9	4
2121:	11	2	7	8	5	3	7	1
2129:	6	5	4	3	5	4	6	4
2137:	13	4	4	2	7	4	4	6
2145:	5	8	8	8	6	5	2	8
2153:	6	6	4	3	4	5	6	6
2161:	2	6	5	12	6	4	6	6
2169:	5	5	5	4	8	13	6	4
2177:	5	9	6	6	4	9	6	3
2185:	6	5	2	7	5	4	13	7
2193:	3	6	7	5	8	6	5	6
2201:	5	9	12	10	6	5	8	6
2209:	9	4	5	6	7	6	7	4
2217:	5	8	5	6	8	3	9	6
2225:	6	8	12	4	6	2	9	5
2233:	5	5	7	7	7	10	8	2
2241:	5	8	9	11	5	3	6	9
2249:	8	8	3	6	12	6	2	6
2257:	7	4	2	8	4	8	5	8
2265:	6	14	6	13	8	5	5	2
2273:	6	5	5	12	8	5	11	8
2281:	8	5	7	10	9	8	12	3
2289:	9	9	10	3	5	6	8	4
2297:	8	5	3	3	6	2	3	2
2305:	3	3	7	4	11	4	4	0
2313:	4	2	6	2	2	4	7	3
2321:	3	2	6	2	4	6	7	7
2329:	8	8	0	3	2	5	1	4
2337:	2	1	2	5	3	0	1	5
2345:	3	5	2	3	3	6	1	2
2353:	4	1	0	2	1	4	2	3
2361:	0	4	3	2	3	1	3	5
2369:	4	1	1	6	8	6	1	1
2377:	1	2	5	2	1	2	4	0
2385:	2	0	4	5	2	2	0	0
2393:	0	2	2	1	2	0	1	5
2401:	0	2	0	1	1	2	4	4
2409:	1	2	2	2	2	2	2	2
2417:	0	3	1	2	1	2	0	2
2425:	1	1	0	1	1	0	3	2
2433:	2	2	0	2	1	2	2	0
2441:	1	0	0	2	1	1	1	1
2449:	0	1	2	2	3	3	0	2
2457:	0	1	1	0	3	0	1	1
2465:	3	1	0	2	3	0	1	4
2473:	1	1	0	0	1	0	0	2
2481:	1	1	0	1	0	2	0	1
2489:	0	1	0	3	0	1	1	0
2497:	0	1	0	1	1	12	41	103
2505:	141	65	13	7	2	0	0	0
2513:	1	0	0	0	0	1	0	0
2521:	1	0	0	0	0	0	0	0

2529:	1	1	1	1	1	0	1	0

Sample Title: GAS-1302

Channel								
2537:	0	1	0	0	1	0	0	0
2545:	0	2	0	0	0	0	0	1
2553:	3	0	0	1	2	0	2	0
2561:	0	0	0	0	0	0	0	0
2569:	0	1	0	0	0	0	1	0
2577:	0	1	0	1	0	0	0	1
2585:	0	0	0	1	0	0	0	0
2593:	0	0	1	0	0	0	0	0
2601:	0	0	1	0	0	0	2	0
2609:	0	0	2	5	9	9	0	3
2617:	1	0	0	0	0	0	0	2
2625:	0	1	0	0	1	0	1	1
2633:	0	0	0	0	1	0	0	0
2641:	0	0	0	0	1	0	1	0
2649:	0	0	1	0	1	0	0	0
2657:	1	0	0	0	0	0	0	0
2665:	0	0	0	0	1	0	0	0
2673:	0	0	0	0	0	1	0	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	0	1	0	0	0	0
2697:	0	0	0	0	1	0	0	0
2705:	0	0	1	0	0	0	0	0
2713:	0	0	1	1	0	0	0	0
2721:	0	0	0	0	2	1	0	0
2729:	0	0	0	1	2	1	0	0
2737:	0	0	0	0	0	0	0	0
2745:	1	0	0	0	0	0	0	0
2753:	0	0	0	0	0	1	0	1
2761:	0	0	0	0	0	0	0	0
2769:	0	1	0	1	0	0	0	0
2777:	0	1	0	0	0	0	1	0
2785:	0	0	0	0	0	0	0	1
2793:	1	0	0	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	1	0	0	0	0	1	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	1	0	0	0	0	0	1	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	1	0	0	1	0	1
2865:	1	0	0	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	1	1	0	0	0
2889:	1	0	0	0	0	0	0	0
2897:	1	0	0	0	0	0	0	0
2905:	0	0	0	0	1	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	1	0	1	0	0
2929:	0	0	0	0	0	1	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	1	0	0

Sample Title: GAS-1302

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	1	0	0	0	0	0	0	0
2993:	0	0	0	0	1	0	0	0
3001:	0	1	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	1	1	0	0	0	0	0	0
3025:	1	0	0	0	0	0	0	0
3033:	0	1	0	0	0	0	0	0
3041:	1	1	0	0	0	0	0	0
3049:	0	0	0	1	0	0	0	1
3057:	0	0	0	1	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	0	0	1	0
3081:	0	1	0	0	1	0	0	0
3089:	0	0	0	0	0	0	1	0
3097:	1	0	0	1	0	0	0	0
3105:	0	0	0	0	0	0	0	1
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	2	0	0	0	0	0	1	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	1	0	1
3193:	0	0	1	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	1	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	1	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	1	1
3265:	1	0	0	0	0	0	0	0
3273:	0	0	0	1	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	1	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	1	0	1	0
3353:	0	0	0	0	0	1	0	0
3361:	0	0	0	0	0	0	0	0
3369:	1	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

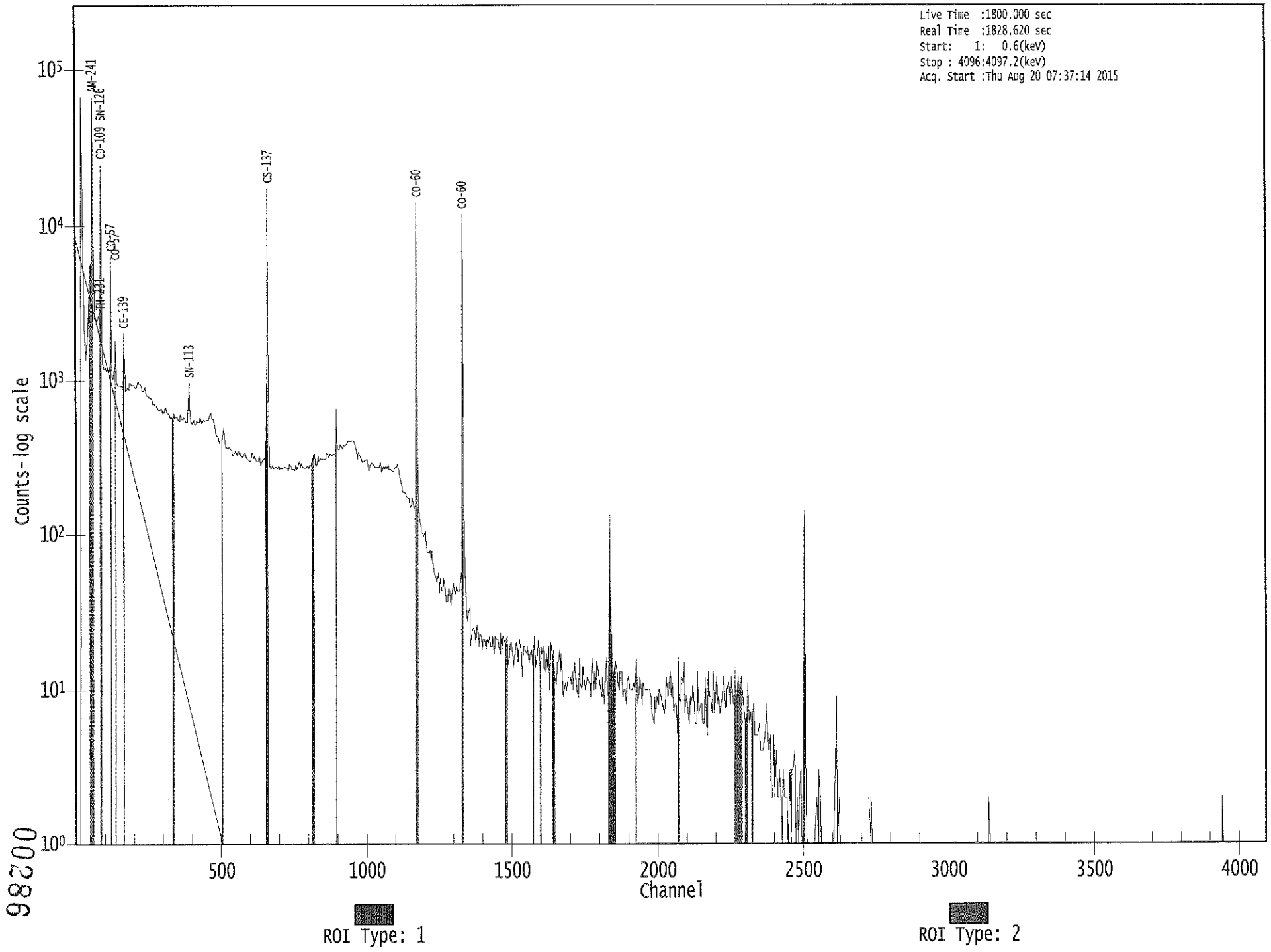
Channel								
3401:	0	0	1	0	0	0	0	0
3409:	0	1	0	0	0	0	1	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	1	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	1	1	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	1	0	0	0	0
3513:	0	0	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	1	1	0	0
3633:	0	0	1	0	0	0	0	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	1	0	1	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	1	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	1	0
3713:	1	0	0	0	0	0	0	0
3721:	1	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	1	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	1	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	1	0	0	0	0	0
3809:	0	0	1	0	0	0	0	0
3817:	0	0	0	0	0	0	1	0

3825:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	1	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	2	0	0	0
3945:	0	0	0	0	0	0	0	1
3953:	0	0	0	0	0	1	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	1
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026148.CNF



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Apex-Gamma

Analysis Report for 1507182-02
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8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 8/20/2015 6:43:05AM
Acquisition Started	: 8/20/2015 7:37:20AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26149

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

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Analysis Report for 1507182-02

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PEAK LOCATE REPORT

Peak Locate Performed on : 8/20/2015 8:37:25AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	376.08	376.01	0.0000	0.00
2	391.57	391.49	0.0000	0.00
3	398.04	397.95	0.0000	0.00
4	569.42	569.25	0.0000	0.00
5	648.60	648.39	0.0000	0.00
6	769.15	768.89	0.0000	0.00
7	1206.44	1206.00	0.0000	0.00
8	1217.72	1217.27	0.0000	0.00
9	1244.54	1244.08	0.0000	0.00
10	1377.60	1377.10	0.0000	0.00
11	2385.19	2384.48	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-02

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PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/20/2015 8:37:25AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
1	376.08	373 -	379	376.01	2.00E+01	18.75	5.00E+01	4.08
2	391.57	389 -	394	391.49	2.00E+01	17.18	3.99E+01	3.21
3	398.04	396 -	401	397.95	1.49E+01	17.06	4.82E+01	1.15
4	569.42	566 -	573	569.25	1.95E+01	14.97	2.49E+01	3.66
5	648.60	646 -	650	648.39	9.92E+00	10.76	1.62E+01	1.95
6	769.15	764 -	773	768.89	1.64E+01	17.64	3.53E+01	4.79
7	1206.44	1201 -	1210	1206.00	1.60E+01	8.00	0.00E+00	4.38
8	1217.72	1214 -	1220	1217.27	1.10E+01	6.63	0.00E+00	2.21
9	1244.54	1240 -	1248	1244.08	1.20E+01	6.93	0.00E+00	6.98
10	1377.60	1373 -	1380	1377.10	8.10E+00	7.48	3.80E+00	3.63
11	2385.19	2381 -	2387	2384.48	5.29E+00	6.34	3.43E+00	2.69

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/20/2015 8:37:25AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	376.08	373 -	379	2.00E+01	18.75	5.00E+01	1.35E+01
2	391.57	389 -	394	2.00E+01	17.18	3.99E+01	1.20E+01
3	398.04	396 -	401	1.49E+01	17.06	4.82E+01	1.25E+01
4	569.42	566 -	573	1.95E+01	14.97	2.49E+01	9.93E+00

Analysis Report for 1507182-02

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Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
5	648.60	646 -	650	9.92E+00	10.76	1.62E+01	7.17E+00
6	769.15	764 -	773	1.64E+01	17.64	3.53E+01	1.29E+01
7	1206.44	1201 -	1210	1.60E+01	8.00	0.00E+00	0.00E+00
8	1217.72	1214 -	1220	1.10E+01	6.63	0.00E+00	0.00E+00
9	1244.54	1240 -	1248	1.20E+01	6.93	0.00E+00	0.00E+00
10	1377.60	1373 -	1380	8.10E+00	7.48	3.80E+00	3.99E+00
11	2385.19	2381 -	2387	5.29E+00	6.34	3.43E+00	3.59E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/20/2015 8:37:25AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	376.08	373 -	379	376.01	2.00E+01	18.75	5.00E+01	.....
2	391.57	389 -	394	391.49	2.00E+01	17.18	3.99E+01	SN-113
3	398.04	396 -	401	397.95	1.49E+01	17.06	4.82E+01	.....
4	569.42	566 -	573	569.25	1.95E+01	14.97	2.49E+01	CS-134
								BI-207
5	648.60	646 -	650	648.39	9.92E+00	10.76	1.62E+01	.....
6	769.15	764 -	773	768.89	1.64E+01	17.64	3.53E+01	.....
7	1206.44	1201 -	1210	1206.00	1.60E+01	8.00	0.00E+00	.....
8	1217.72	1214 -	1220	1217.27	1.10E+01	6.63	0.00E+00	.....
9	1244.54	1240 -	1248	1244.08	1.20E+01	6.93	0.00E+00	.....
10	1377.60	1373 -	1380	1377.10	8.10E+00	7.48	3.80E+00	.....
11	2385.19	2381 -	2387	2384.48	5.29E+00	6.34	3.43E+00	.....

Analysis Report for 1507182-02
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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/20/2015 8:37:25AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	376.08	2.00E+01	18.75	1.31E-02	1.09E-03
2	391.57	2.00E+01	17.18	1.27E-02	1.02E-03
3	398.04	1.49E+01	17.06	1.26E-02	1.01E-03
4	569.42	1.95E+01	14.97	9.75E-03	8.39E-04
5	648.60	9.92E+00	10.76	8.84E-03	7.58E-04
6	769.15	1.64E+01	17.64	7.73E-03	6.76E-04
7	1206.44	1.60E+01	8.00	5.38E-03	4.68E-04
8	1217.72	1.10E+01	6.63	5.34E-03	4.73E-04
9	1244.54	1.20E+01	6.93	5.25E-03	4.86E-04
10	1377.60	8.10E+00	7.48	4.87E-03	5.08E-04
11	2385.19	5.29E+00	6.34	3.95E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/20/2015 8:37:25AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.

Analysis Report for 1507182-02

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Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	376.08	2.00E+01	18.75			2.00E+01	1.87E+01
2	391.57	2.00E+01	17.18			2.00E+01	1.72E+01
3	398.04	1.49E+01	17.06			1.49E+01	1.71E+01
4	569.42	1.95E+01	14.97			1.95E+01	1.50E+01
5	648.60	9.92E+00	10.76			9.92E+00	1.08E+01
6	769.15	1.64E+01	17.64			1.64E+01	1.76E+01
7	1206.44	1.60E+01	8.00			1.60E+01	8.00E+00
8	1217.72	1.10E+01	6.63			1.10E+01	6.63E+00
9	1244.54	1.20E+01	6.93			1.20E+01	6.93E+00
10	1377.60	8.10E+00	7.48			8.10E+00	7.48E+00
11	2385.19	5.29E+00	6.34			5.29E+00	6.34E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/20/2015 8:37:25AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	376.08	2.00E+01	18.75			2.00E+01	1.87E+01
2	391.57	2.00E+01	17.18			2.00E+01	1.72E+01
3	398.04	1.49E+01	17.06			1.49E+01	1.71E+01
4	569.42	1.95E+01	14.97			1.95E+01	1.50E+01
5	648.60	9.92E+00	10.76			9.92E+00	1.08E+01
6	769.15	1.64E+01	17.64			1.64E+01	1.76E+01
7	1206.44	1.60E+01	8.00			1.60E+01	8.00E+00
8	1217.72	1.10E+01	6.63			1.10E+01	6.63E+00
9	1244.54	1.20E+01	6.93			1.20E+01	6.93E+00
10	1377.60	8.10E+00	7.48			8.10E+00	7.48E+00
11	2385.19	5.29E+00	6.34			5.29E+00	6.34E+00

Analysis Report for 1507182-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
SN-113	0.945	255.12		1.93		
		391.69	*	64.90	2.32E-02	2.00E-02
BI-207	0.395	569.67	*	97.72	1.96E-02	1.51E-02
		1063.62		74.90		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/20/2015 8:37:25AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	376.08	5.54938E-03	46.92		
3	398.04	4.13461E-03	57.30		
5	648.60	2.75463E-03	54.25		
6	769.15	4.54657E-03	53.87		
7	1206.44	4.44444E-03	25.00		
8	1217.72	3.05556E-03	30.15		

Analysis Report for 1507182-02
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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
9	1244.54	3.33333E-03	28.87		
10	1377.60	2.25000E-03	46.19		
11	2385.19	1.46825E-03	60.01		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
SN-113	0.94	255.12		1.93		
		391.69	*	64.90	2.32E-02	2.00E-02
BI-207	0.39	569.67	*	97.72	1.96E-02	1.51E-02
		1063.62		74.90		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1507182-02

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
SN-113	0.945	2.32E-02	2.00E-02	
BI-207	0.395	1.96E-02	1.51E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/20/2015 8:37:25AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	376.08	5.54938E-03	46.92		
3	398.04	4.13461E-03	57.30		
5	648.60	2.75463E-03	54.25		
6	769.15	4.54657E-03	53.87		
7	1206.44	4.44444E-03	25.00		
8	1217.72	3.05556E-03	30.15		
9	1244.54	3.33333E-03	28.87		
10	1377.60	2.25000E-03	46.19		
11	2385.19	1.46825E-03	60.01		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	3.29E-02	2.23E-01	2.23E-01
+	NA-22	1274.54	99.94	-6.70E-03	2.44E-02	2.44E-02
+	NA-24	1368.53	99.99	1.15E-02	2.28E-02	3.14E-02
		2754.09	99.86	-9.84E-03		2.28E-02
+	AL-26	1808.65	99.76	-1.16E-02	2.79E-02	2.79E-02
+	K-40	1460.81	10.67	2.35E-01	4.10E-01	4.10E-01
+	AR-41	1293.64	99.16	0.00E+00	4.82E-02	4.82E-02
+	TI-44	67.88	94.40	1.62E-03	1.39E-02	1.55E-02

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Analysis Report for 1507182-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TI-44	78.34	96.00	-2.52E-03	1.39E-02	1.39E-02
+	SC-46	889.25	99.98	6.43E-04	2.72E-02	2.72E-02
		1120.51	99.99	5.82E-03		3.17E-02
+	V-48	983.52	99.98	8.88E-03	2.56E-02	3.05E-02
		1312.10	97.50	2.93E-03		2.56E-02
+	CR-51	320.08	9.83	6.03E-02	2.21E-01	2.21E-01
+	MN-54	834.83	99.97	-1.58E-02	2.21E-02	2.21E-02
+	CO-56	846.75	99.96	4.78E-04	2.69E-02	2.69E-02
		1037.75	14.03	5.44E-02		1.59E-01
		1238.25	67.00	-1.09E-02		4.73E-02
		1771.40	15.51	3.70E-02		1.94E-01
		2598.48	16.90	2.81E-02		1.30E-01
+	CO-57	122.06	85.51	2.11E-03	1.85E-02	1.85E-02
		136.48	10.60	-5.86E-02		1.61E-01
+	CO-58	810.76	99.40	1.34E-03	2.85E-02	2.85E-02
+	FE-59	1099.22	56.50	-4.89E-03	4.89E-02	4.89E-02
		1291.56	43.20	-7.15E-03		6.53E-02
+	CO-60	1173.22	100.00	-3.15E-03	3.40E-02	3.40E-02
		1332.49	100.00	1.51E-02		3.62E-02
+	ZN-65	1115.52	50.75	1.60E-02	5.75E-02	5.75E-02
+	GA-67	93.31	35.70	4.59E-02	5.36E-02	5.36E-02
		208.95	2.24	-1.77E-01		8.66E-01
		300.22	16.00	-1.21E-01		1.07E-01
+	SE-75	121.11	16.70	-4.41E-02	2.88E-02	9.40E-02
		136.00	59.20	-9.77E-04		2.88E-02
		264.65	59.80	1.34E-02		3.49E-02
		279.53	25.20	5.86E-03		7.61E-02
		400.65	11.40	-6.80E-02		1.77E-01
+	RB-82	776.52	13.00	4.14E-02	2.05E-01	2.05E-01
+	RB-83	520.41	46.00	-7.37E-03	4.26E-02	4.26E-02
		529.64	30.30	1.51E-02		7.99E-02
		552.65	16.40	-3.26E-04		1.32E-01
+	KR-85	513.99	0.43	5.60E-01	7.12E+00	7.12E+00
+	SR-85	513.99	99.27	2.45E-03	3.12E-02	3.12E-02
+	Y-88	898.02	93.40	0.00E+00	2.53E-02	3.02E-02
		1836.01	99.38	4.95E-03		2.53E-02
+	NB-93M	16.57	9.43	-9.70E+03	3.11E+03	3.11E+03
+	NB-94	702.63	100.00	7.79E-03	2.17E-02	2.94E-02
		871.10	100.00	3.68E-03		2.17E-02
+	NB-95	765.79	99.81	-1.82E-02	2.85E-02	2.85E-02
+	NB-95M	235.69	25.00	-9.31E-02	8.33E-02	8.33E-02
+	ZR-95	724.18	43.70	5.31E-03	5.09E-02	5.44E-02
		756.72	55.30	5.30E-03		5.09E-02
+	MO-99	181.06	6.20	1.32E-01	2.56E-01	3.00E-01
		739.58	12.80	8.29E-02		2.56E-01
		778.00	4.50	3.48E-02		5.84E-01
+	RU-103	497.08	89.00	-7.00E-03	2.25E-02	2.25E-02

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Analysis Report for 1507182-02

BLANK

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RU-106	621.84		9.80	-6.99E-02	2.46E-01	2.46E-01
+	AG-108M	433.93		89.90	5.30E-03	2.72E-02	2.72E-02
		614.37		90.40	-1.87E-02		3.52E-02
		722.95		90.50	7.17E-03		2.78E-02
+	CD-109	88.03		3.72	-8.31E-02	4.61E-01	4.61E-01
+	AG-110M	657.75		93.14	-2.39E-02	2.64E-02	2.64E-02
		677.61		10.53	5.33E-03		2.39E-01
		706.67		16.46	7.90E-02		1.76E-01
		763.93		21.98	1.82E-02		1.26E-01
		884.67		71.63	1.15E-02		4.13E-02
		1384.27		23.94	-7.59E-02		1.08E-01
+	CD-113M	263.70		0.02	-3.80E+01	8.46E+01	8.46E+01
+	SN-113	255.12		1.93	-5.48E-01	3.11E-02	1.02E+00
		391.69	*	64.90	2.32E-02		3.11E-02
+	TE123M	159.00		84.10	1.68E-02	2.12E-02	2.12E-02
+	SB-124	602.71		97.87	-1.38E-02	2.95E-02	2.95E-02
		645.85		7.26	2.81E-02		3.94E-01
		722.78		11.10	5.85E-02		2.27E-01
		1691.02		49.00	3.20E-02		6.87E-02
+	I-125	35.49		6.49	9.82E-01	1.94E+00	1.94E+00
+	SB-125	176.33		6.89	1.99E-02	7.33E-02	2.86E-01
		427.89		29.33	-1.58E-02		7.33E-02
		463.38		10.35	1.11E-01		2.08E-01
		600.56		17.80	5.84E-02		1.62E-01
		635.90		11.32	5.99E-02		2.70E-01
+	SB-126	414.70		83.30	-4.11E-03	2.31E-02	2.31E-02
		666.33		99.60	-4.06E-03		2.90E-02
		695.00		99.60	-1.44E-03		2.83E-02
		720.50		53.80	-2.81E-02		3.98E-02
+	SN-126	87.57		37.00	-8.36E-03	4.63E-02	4.63E-02
+	SB-127	473.00		25.00	-4.02E-03	7.53E-02	9.01E-02
		685.20		35.70	1.60E-02		7.53E-02
		783.80		14.70	-1.06E-01		1.74E-01
+	I-129	29.78		57.00	2.60E-01	6.53E-01	6.53E-01
		33.60		13.20	-6.44E-01		1.18E+00
		39.58		7.52	-2.07E-01		9.55E-01
+	I-131	284.30		6.05	2.01E-01	2.34E-02	3.57E-01
		364.48		81.20	4.73E-03		2.34E-02
		636.97		7.26	2.86E-01		4.47E-01
		722.89		1.80	3.62E-01		1.40E+00
+	TE-132	49.72		13.10	-4.68E-03	2.21E-02	1.45E-01
		228.16		88.00	5.76E-04		2.21E-02
+	BA-133	81.00		33.00	-8.12E-03	3.59E-02	3.59E-02
		302.84		17.80	8.38E-03		1.15E-01
		356.01		60.00	-1.17E-03		3.73E-02
+	I-133	529.87		86.30	1.02E-02	3.04E-02	3.04E-02
+	XE-133	81.00		38.00	-7.11E-03	3.14E-02	3.14E-02
+	CS-134	563.23		8.38	1.92E-02	3.18E-02	2.27E-01

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Analysis Report for 1507182-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CS-134	569.32	15.43	1.13E-01	3.18E-02	1.68E-01
		604.70	97.60	-2.13E-02		3.18E-02
		795.84	85.40	2.09E-02		3.43E-02
		801.93	8.73	-6.02E-02		2.56E-01
+	CS-135	268.24	16.00	9.78E-03	1.39E-01	1.39E-01
+	I-135	1131.51	22.50	-2.62E-02	1.12E-01	1.31E-01
		1260.41	28.60	-4.05E-02		1.12E-01
		1678.03	9.54	1.08E-01		3.26E-01
+	CS-136	153.22	7.46	1.20E-01	2.87E-02	2.35E-01
		163.89	4.61	-5.58E-02		3.80E-01
		176.55	13.56	-2.78E-02		1.41E-01
		273.65	12.66	3.03E-02		1.81E-01
		340.57	48.50	1.61E-02		4.59E-02
		818.50	99.70	1.12E-02		2.87E-02
		1048.07	79.60	-4.77E-03		3.18E-02
		1235.34	19.70	6.81E-02		1.74E-01
+	CS-137	661.65	85.12	2.06E-02	3.53E-02	3.53E-02
+	LA-138	788.74	34.00	3.45E-02	4.03E-02	8.93E-02
		1435.80	66.00	-1.35E-02		4.03E-02
+	CE-139	165.85	80.35	-2.42E-02	2.25E-02	2.25E-02
+	BA-140	162.64	6.70	3.50E-02	9.81E-02	2.66E-01
		304.84	4.50	1.89E-01		4.88E-01
		423.70	3.20	2.67E-03		6.80E-01
		437.55	2.00	1.54E-01		1.08E+00
		537.32	25.00	1.66E-02		9.81E-02
+	LA-140	328.77	20.50	1.63E-02	3.42E-02	1.11E-01
		487.03	45.50	1.50E-03		4.34E-02
		815.85	23.50	-4.27E-02		1.08E-01
		1596.49	95.49	9.28E-03		3.42E-02
+	CE-141	145.44	48.40	2.28E-02	3.79E-02	3.79E-02
+	CE-143	57.36	11.80	-1.61E-02	4.63E-02	1.26E-01
		293.26	42.00	-5.55E-02		4.63E-02
		664.55	5.20	1.75E-01		6.07E-01
+	CE-144	133.54	10.80	-1.25E-01	1.47E-01	1.47E-01
+	PM-144	476.78	42.00	8.15E-03	2.82E-02	5.53E-02
		618.01	98.60	1.03E-02		2.94E-02
		696.49	99.49	3.04E-03		2.82E-02
+	PM-145	36.85	21.70	1.17E-01	2.49E-01	4.85E-01
		37.36	39.70	6.03E-02		2.49E-01
		42.30	15.10	3.68E-02		3.81E-01
		72.40	2.31	1.23E-01		5.94E-01
+	PM-146	453.90	39.94	-5.66E-03	4.80E-02	4.80E-02
		735.90	14.01	6.52E-02		2.22E-01
		747.13	13.10	-2.36E-02		2.02E-01
+	ND-147	91.11	28.90	4.01E-02	6.77E-02	6.77E-02
		531.02	13.10	-4.04E-03		1.79E-01
+	PM-149	285.90	3.10	1.59E-01	6.61E-01	6.61E-01
+	EU-152	121.78	20.50	8.80E-03	7.71E-02	7.71E-02
		244.69	5.40	-3.54E-01		3.17E-01

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Analysis Report for 1507182-02

BLANK

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	EU-152	344.27		19.13	2.87E-02	7.71E-02	1.10E-01
		778.89		9.20	-6.80E-02		2.74E-01
		964.01		10.40	-3.86E-02		2.49E-01
		1085.78		7.22	1.25E-01		3.78E-01
		1112.02		9.60	-4.35E-02		2.76E-01
		1407.95		14.94	4.68E-02		2.01E-01
+	GD-153	97.43		31.30	-8.47E-03	4.49E-02	4.49E-02
		103.18		22.20	-1.07E-02		6.52E-02
+	EU-154	123.07		40.50	1.36E-02	3.92E-02	3.92E-02
		723.30		19.70	3.29E-02		1.28E-01
		873.19		11.50	1.19E-02		1.89E-01
		996.32		10.30	8.16E-02		3.16E-01
		1004.76		17.90	3.27E-02		1.67E-01
		1274.45		35.50	-1.88E-02		6.86E-02
+	EU-155	86.50		30.90	2.16E-02	5.63E-02	5.63E-02
		105.30		20.70	1.53E-02		7.37E-02
+	EU-156	811.77		10.40	5.20E-03	2.80E-01	2.80E-01
		1153.47		7.20	1.94E-01		4.82E-01
		1230.71		8.90	2.04E-02		3.55E-01
+	HO-166M	184.41		72.60	2.13E-02	2.98E-02	2.98E-02
		280.45		29.60	5.00E-03		6.49E-02
		410.94		11.10	2.30E-02		1.91E-01
		711.69		54.10	-1.62E-02		4.46E-02
+	TM-171	66.72		0.14	-3.70E+00	1.03E+01	1.03E+01
+	HF-172	81.75		4.52	-3.50E-02	1.42E-01	2.51E-01
		125.81		11.30	-7.68E-02		1.42E-01
+	LU-172	181.53		20.60	-8.37E-02	4.42E-02	8.40E-02
		810.06		16.63	8.04E-03		1.71E-01
		912.12		15.25	9.85E-02		2.00E-01
		1093.66		62.50	1.46E-02		4.42E-02
+	LU-173	100.72		5.24	2.26E-01	1.02E-01	2.92E-01
		272.11		21.20	-2.88E-02		1.02E-01
+	HF-175	343.40		84.00	-5.73E-03	2.41E-02	2.41E-02
+	LU-176	88.34		13.30	-2.32E-02	2.12E-02	1.29E-01
		201.83		86.00	3.41E-03		2.38E-02
		306.78		94.00	-5.34E-05		2.12E-02
+	TA-182	67.75		41.20	3.73E-03	3.55E-02	3.55E-02
		1121.30		34.90	2.41E-03		8.74E-02
		1189.05		16.23	-1.12E-01		1.63E-01
		1221.41		26.98	1.27E-02		1.16E-01
		1231.02		11.44	3.24E-02		2.87E-01
+	IR-192	308.46		29.68	3.53E-02	4.07E-02	6.83E-02
		468.07		48.10	2.80E-03		4.07E-02
+	HG-203	279.19		77.30	-3.24E-02	2.27E-02	2.27E-02
+	BI-207	569.67	*	97.72	1.96E-02	2.27E-02	2.27E-02
		1063.62		74.90	1.26E-02		4.05E-02
+	TL-208	583.14		30.22	1.77E-02	8.59E-02	8.59E-02
		860.37		4.48	1.47E-01		7.57E-01
		2614.66		35.85	7.26E-02		1.20E-01

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Analysis Report for 1507182-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BI-210M	262.00	45.00	1.27E-02	4.39E-02	4.39E-02
		300.00	23.00	-8.31E-02		7.32E-02
+	PB-210	46.50	4.25	7.75E-01	8.83E-01	8.83E-01
+	PB-211	404.84	2.90	2.43E-01	7.70E-01	7.70E-01
		831.96	2.90	-2.52E-01		8.25E-01
+	BI-212	727.17	11.80	3.07E-02	2.20E-01	2.20E-01
		1620.62	2.75	3.68E-01		1.26E+00
+	PB-212	238.63	44.60	2.70E-02	5.51E-02	5.51E-02
		300.09	3.41	-5.61E-01		4.94E-01
+	BI-214	609.31	46.30	4.02E-02	7.95E-02	7.95E-02
		1120.29	15.10	3.85E-02		2.09E-01
		1764.49	15.80	7.25E-03		1.90E-01
		2204.22	4.98	-6.53E-02		5.88E-01
+	PB-214	295.21	19.19	4.00E-02	7.10E-02	1.12E-01
		351.92	37.19	1.14E-02		7.10E-02
+	RN-219	401.80	6.50	-3.90E-02	3.16E-01	3.16E-01
+	RA-223	323.87	3.88	-3.87E-01	4.79E-01	4.79E-01
+	RA-224	240.98	3.95	3.98E-01	6.02E-01	6.02E-01
+	RA-225	40.00	31.00	-4.83E-02	2.23E-01	2.23E-01
+	RA-226	186.21	3.28	1.54E-01	6.56E-01	6.56E-01
+	TH-227	50.10	8.40	-7.08E-03	1.79E-01	2.19E-01
		236.00	11.50	-2.00E-01		1.79E-01
		256.20	6.30	3.54E-02		3.24E-01
+	AC-228	338.32	11.40	-7.22E-03	1.15E-01	1.87E-01
		911.07	27.70	6.07E-02		1.15E-01
		969.11	16.60	1.90E-02		1.75E-01
+	TH-230	48.44	16.90	-1.65E-01	1.20E-01	1.20E-01
		62.85	4.60	2.54E-01		3.92E-01
		67.67	0.37	4.16E-01		3.96E+00
+	PA-231	283.67	1.60	7.54E-01	8.90E-01	1.34E+00
		302.67	2.30	6.48E-02		8.90E-01
+	TH-231	25.64	14.70	4.83E+00	1.97E-01	8.55E+00
		84.21	6.40	2.92E-02		1.97E-01
+	PA-233	311.98	38.60	-1.54E-02	4.98E-02	4.98E-02
+	PA-234	131.20	20.40	2.38E-03	8.39E-02	8.39E-02
		733.99	8.80	4.07E-02		3.46E-01
		946.00	12.00	-5.49E-02		1.83E-01
+	PA-234M	1001.03	0.92	4.49E-01	3.25E+00	3.25E+00
+	TH-234	63.29	3.80	3.05E-01	4.71E-01	4.71E-01
+	U-235	143.76	10.50	9.91E-02	1.74E-01	1.74E-01
		163.35	4.70	4.98E-02		3.78E-01
		205.31	4.70	-1.63E-01		4.18E-01
+	NP-237	86.50	12.60	5.29E-02	1.38E-01	1.38E-01
+	NP-239	106.10	22.70	-1.31E-02	6.65E-02	6.65E-02
		228.18	10.70	4.76E-03		1.83E-01
		277.60	14.10	9.19E-03		1.41E-01
+	AM-241	59.54	35.90	1.33E-02	4.47E-02	4.47E-02

Analysis Report for 1507182-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-243	74.67	66.00	-5.79E-03	2.06E-02	2.06E-02
+	CM-243	209.75	3.29	3.71E-01	1.39E-01	6.01E-01
		228.14	10.60	4.73E-03		1.81E-01
		277.60	14.00	9.09E-03		1.39E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	2.23E-01	2.23E-01	3.29E-02	1.00E-01
NA-22	1274.54	99.94	2.44E-02	2.44E-02	-6.70E-03	9.67E-03
NA-24	1368.53	99.99	3.14E-02	2.28E-02	1.15E-02	1.29E-02
	2754.09	99.86	2.28E-02		-9.84E-03	8.09E-03
AL-26	1808.65	99.76	2.79E-02	2.79E-02	-1.16E-02	1.08E-02
K-40	1460.81	10.67	4.10E-01	4.10E-01	2.35E-01	1.79E-01
AR-41	1293.64	99.16	4.82E-02	4.82E-02	0.00E+00	1.98E-02
TI-44	67.88	94.40	1.55E-02	1.39E-02	1.62E-03	7.20E-03
	78.34	96.00	1.39E-02		-2.52E-03	6.44E-03
SC-46	889.25	99.98	2.72E-02	2.72E-02	6.43E-04	1.17E-02
	1120.51	99.99	3.17E-02		5.82E-03	1.36E-02
V-48	983.52	99.98	3.05E-02	2.56E-02	8.88E-03	1.32E-02
	1312.10	97.50	2.56E-02		2.93E-03	1.02E-02
CR-51	320.08	9.83	2.21E-01	2.21E-01	6.03E-02	1.02E-01
MN-54	834.83	99.97	2.21E-02	2.21E-02	-1.58E-02	9.24E-03
CO-56	846.75	99.96	2.69E-02	2.69E-02	4.78E-04	1.17E-02
	1037.75	14.03	1.59E-01		5.44E-02	6.42E-02
	1238.25	67.00	4.73E-02		-1.09E-02	2.00E-02
	1771.40	15.51	1.94E-01		3.70E-02	7.70E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CO-56	2598.48		16.90	1.30E-01	2.69E-02	2.81E-02	4.62E-02
	CO-57	122.06		85.51	1.85E-02	1.85E-02	2.11E-03	8.69E-03
		136.48		10.60	1.61E-01		-5.86E-02	7.57E-02
	CO-58	810.76		99.40	2.85E-02	2.85E-02	1.34E-03	1.25E-02
	FE-59	1099.22		56.50	4.89E-02	4.89E-02	-4.89E-03	2.05E-02
		1291.56		43.20	6.53E-02		-7.15E-03	2.68E-02
	CO-60	1173.22		100.00	3.40E-02	3.40E-02	-3.15E-03	1.46E-02
		1332.49		100.00	3.62E-02		1.51E-02	1.55E-02
	ZN-65	1115.52		50.75	5.75E-02	5.75E-02	1.60E-02	2.43E-02
	GA-67	93.31		35.70	5.36E-02	5.36E-02	4.59E-02	2.55E-02
		208.95		2.24	8.66E-01		-1.77E-01	4.03E-01
		300.22		16.00	1.07E-01		-1.21E-01	4.79E-02
	SE-75	121.11		16.70	9.40E-02	2.88E-02	-4.41E-02	4.41E-02
		136.00		59.20	2.88E-02		-9.77E-04	1.35E-02
		264.65		59.80	3.49E-02		1.34E-02	1.61E-02
		279.53		25.20	7.61E-02		5.86E-03	3.49E-02
		400.65		11.40	1.77E-01		-6.80E-02	7.95E-02
	RB-82	776.52		13.00	2.05E-01	2.05E-01	4.14E-02	8.95E-02
	RB-83	520.41		46.00	4.26E-02	4.26E-02	-7.37E-03	1.86E-02
		529.64		30.30	7.99E-02		1.51E-02	3.58E-02
		552.65		16.40	1.32E-01		-3.26E-04	5.79E-02
	KR-85	513.99		0.43	7.12E+00	7.12E+00	5.60E-01	3.28E+00
	SR-85	513.99		99.27	3.12E-02	3.12E-02	2.45E-03	1.43E-02
	Y-88	898.02		93.40	3.02E-02	2.53E-02	0.00E+00	1.31E-02
		1836.01		99.38	2.53E-02		4.95E-03	9.45E-03
	NB-93M	16.57		9.43	3.11E+03	3.11E+03	-9.70E+03	1.50E+03
	NB-94	702.63		100.00	2.94E-02	2.17E-02	7.79E-03	1.31E-02
		871.10		100.00	2.17E-02		3.68E-03	9.01E-03
	NB-95	765.79		99.81	2.85E-02	2.85E-02	-1.82E-02	1.26E-02
	NB-95M	235.69		25.00	8.33E-02	8.33E-02	-9.31E-02	3.88E-02
	ZR-95	724.18		43.70	5.44E-02	5.09E-02	5.31E-03	2.35E-02
		756.72		55.30	5.09E-02		5.30E-03	2.24E-02
	MO-99	181.06		6.20	3.00E-01	2.56E-01	1.32E-01	1.40E-01
		739.58		12.80	2.56E-01		8.29E-02	1.15E-01
		778.00		4.50	5.84E-01		3.48E-02	2.54E-01
	RU-103	497.08		89.00	2.25E-02	2.25E-02	-7.00E-03	9.87E-03
	RU-106	621.84		9.80	2.46E-01	2.46E-01	-6.99E-02	1.09E-01
	AG-108M	433.93		89.90	2.72E-02	2.72E-02	5.30E-03	1.24E-02
		614.37		90.40	3.52E-02		-1.87E-02	1.61E-02
		722.95		90.50	2.78E-02		7.17E-03	1.21E-02
	CD-109	88.03		3.72	4.61E-01	4.61E-01	-8.31E-02	2.18E-01
	AG-110M	657.75		93.14	2.64E-02	2.64E-02	-2.39E-02	1.16E-02
		677.61		10.53	2.39E-01		5.33E-03	1.05E-01
		706.67		16.46	1.76E-01		7.90E-02	7.85E-02
		763.93		21.98	1.26E-01		1.82E-02	5.53E-02
		884.67		71.63	4.13E-02		1.15E-02	1.80E-02
		1384.27		23.94	1.08E-01		-7.59E-02	4.29E-02
	CD-113M	263.70		0.02	8.46E+01	8.46E+01	-3.80E+01	3.89E+01
+	SN-113	255.12		1.93	1.02E+00	3.11E-02	-5.48E-01	4.69E-01
		391.69	*	64.90	3.11E-02		2.32E-02	1.40E-02
	TE123M	159.00		84.10	2.12E-02	2.12E-02	1.68E-02	9.94E-03
	SB-124	602.71		97.87	2.95E-02	2.95E-02	-1.38E-02	1.34E-02
		645.85		7.26	3.94E-01		2.81E-02	1.77E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SB-124	722.78	11.10	2.27E-01	2.95E-02	5.85E-02	9.89E-02
	1691.02	49.00	6.87E-02		3.20E-02	2.82E-02
I-125	35.49	6.49	1.94E+00	1.94E+00	9.82E-01	9.28E-01
SB-125	176.33	6.89	2.86E-01	7.33E-02	1.99E-02	1.34E-01
	427.89	29.33	7.33E-02		-1.58E-02	3.30E-02
	463.38	10.35	2.08E-01		1.11E-01	9.31E-02
	600.56	17.80	1.62E-01		5.84E-02	7.32E-02
	635.90	11.32	2.70E-01		5.99E-02	1.22E-01
SB-126	414.70	83.30	2.31E-02	2.31E-02	-4.11E-03	1.03E-02
	666.33	99.60	2.90E-02		-4.06E-03	1.30E-02
	695.00	99.60	2.83E-02		-1.44E-03	1.26E-02
	720.50	53.80	3.98E-02		-2.81E-02	1.69E-02
SN-126	87.57	37.00	4.63E-02	4.63E-02	-8.36E-03	2.19E-02
SB-127	473.00	25.00	9.01E-02	7.53E-02	-4.02E-03	4.04E-02
	685.20	35.70	7.53E-02		1.60E-02	3.33E-02
	783.80	14.70	1.74E-01		-1.06E-01	7.53E-02
I-129	29.78	57.00	6.53E-01	6.53E-01	2.60E-01	3.13E-01
	33.60	13.20	1.18E+00		-6.44E-01	5.63E-01
	39.58	7.52	9.55E-01		-2.07E-01	4.56E-01
I-131	284.30	6.05	3.57E-01	2.34E-02	2.01E-01	1.65E-01
	364.48	81.20	2.34E-02		4.73E-03	1.05E-02
	636.97	7.26	4.47E-01		2.86E-01	2.04E-01
	722.89	1.80	1.40E+00		3.62E-01	6.13E-01
TE-132	49.72	13.10	1.45E-01	2.21E-02	-4.68E-03	6.62E-02
	228.16	88.00	2.21E-02		5.76E-04	1.02E-02
BA-133	81.00	33.00	3.59E-02	3.59E-02	-8.12E-03	1.65E-02
	302.84	17.80	1.15E-01		8.38E-03	5.27E-02
	356.01	60.00	3.73E-02		-1.17E-03	1.70E-02
I-133	529.87	86.30	3.04E-02	3.04E-02	1.02E-02	1.37E-02
XE-133	81.00	38.00	3.14E-02	3.14E-02	-7.11E-03	1.45E-02
CS-134	563.23	8.38	2.27E-01	3.18E-02	1.92E-02	9.75E-02
	569.32	15.43	1.68E-01		1.13E-01	7.55E-02
	604.70	97.60	3.18E-02		-2.13E-02	1.45E-02
	795.84	85.40	3.43E-02		2.09E-02	1.51E-02
	801.93	8.73	2.56E-01		-6.02E-02	1.08E-01
CS-135	268.24	16.00	1.39E-01	1.39E-01	9.78E-03	6.48E-02
I-135	1131.51	22.50	1.31E-01	1.12E-01	-2.62E-02	5.37E-02
	1260.41	28.60	1.12E-01		-4.05E-02	4.59E-02
	1678.03	9.54	3.26E-01		1.08E-01	1.26E-01
CS-136	153.22	7.46	2.35E-01	2.87E-02	1.20E-01	1.10E-01
	163.89	4.61	3.80E-01		-5.58E-02	1.78E-01
	176.55	13.56	1.41E-01		-2.78E-02	6.60E-02
	273.65	12.66	1.81E-01		3.03E-02	8.40E-02
	340.57	48.50	4.59E-02		1.61E-02	2.10E-02
	818.50	99.70	2.87E-02		1.12E-02	1.26E-02
	1048.07	79.60	3.18E-02		-4.77E-03	1.32E-02
	1235.34	19.70	1.74E-01		6.81E-02	7.45E-02
CS-137	661.65	85.12	3.53E-02	3.53E-02	2.06E-02	1.59E-02
LA-138	788.74	34.00	8.93E-02	4.03E-02	3.45E-02	3.96E-02
	1435.80	66.00	4.03E-02		-1.35E-02	1.60E-02
CE-139	165.85	80.35	2.25E-02	2.25E-02	-2.42E-02	1.05E-02
BA-140	162.64	6.70	2.66E-01	9.81E-02	3.50E-02	1.24E-01
	304.84	4.50	4.88E-01		1.89E-01	2.25E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-140	423.70	3.20	6.80E-01	9.81E-02	2.67E-03	3.06E-01
	437.55	2.00	1.08E+00		1.54E-01	4.83E-01
	537.32	25.00	9.81E-02		1.66E-02	4.39E-02
LA-140	328.77	20.50	1.11E-01	3.42E-02	1.63E-02	5.09E-02
	487.03	45.50	4.34E-02		1.50E-03	1.91E-02
	815.85	23.50	1.08E-01		-4.27E-02	4.65E-02
	1596.49	95.49	3.42E-02		9.28E-03	1.40E-02
CE-141	145.44	48.40	3.79E-02	3.79E-02	2.28E-02	1.79E-02
CE-143	57.36	11.80	1.26E-01	4.63E-02	-1.61E-02	5.75E-02
	293.26	42.00	4.63E-02		-5.55E-02	2.11E-02
	664.55	5.20	6.07E-01		1.75E-01	2.74E-01
CE-144	133.54	10.80	1.47E-01	1.47E-01	-1.25E-01	6.89E-02
PM-144	476.78	42.00	5.53E-02	2.82E-02	8.15E-03	2.48E-02
	618.01	98.60	2.94E-02		1.03E-02	1.33E-02
	696.49	99.49	2.82E-02		3.04E-03	1.26E-02
PM-145	36.85	21.70	4.85E-01	2.49E-01	1.17E-01	2.32E-01
	37.36	39.70	2.49E-01		6.03E-02	1.19E-01
	42.30	15.10	3.81E-01		3.68E-02	1.82E-01
	72.40	2.31	5.94E-01		1.23E-01	2.76E-01
PM-146	453.90	39.94	4.80E-02	4.80E-02	-5.66E-03	2.12E-02
	735.90	14.01	2.22E-01		6.52E-02	9.93E-02
	747.13	13.10	2.02E-01		-2.36E-02	8.86E-02
ND-147	91.11	28.90	6.77E-02	6.77E-02	4.01E-02	3.23E-02
	531.02	13.10	1.79E-01		-4.04E-03	7.98E-02
PM-149	285.90	3.10	6.61E-01	6.61E-01	1.59E-01	3.04E-01
EU-152	121.78	20.50	7.71E-02	7.71E-02	8.80E-03	3.62E-02
	244.69	5.40	3.17E-01		-3.54E-01	1.45E-01
	344.27	19.13	1.10E-01		2.87E-02	5.02E-02
	778.89	9.20	2.74E-01		-6.80E-02	1.18E-01
	964.01	10.40	2.49E-01		-3.86E-02	1.05E-01
	1085.78	7.22	3.78E-01		1.25E-01	1.58E-01
	1112.02	9.60	2.76E-01		-4.35E-02	1.14E-01
	1407.95	14.94	2.01E-01		4.68E-02	8.24E-02
GD-153	97.43	31.30	4.49E-02	4.49E-02	-8.47E-03	2.10E-02
	103.18	22.20	6.52E-02		-1.07E-02	3.05E-02
EU-154	123.07	40.50	3.92E-02	3.92E-02	1.36E-02	1.84E-02
	723.30	19.70	1.28E-01		3.29E-02	5.57E-02
	873.19	11.50	1.89E-01		1.19E-02	7.85E-02
	996.32	10.30	3.16E-01		8.16E-02	1.38E-01
	1004.76	17.90	1.67E-01		3.27E-02	7.21E-02
	1274.45	35.50	6.86E-02		-1.88E-02	2.72E-02
EU-155	86.50	30.90	5.63E-02	5.63E-02	2.16E-02	2.67E-02
	105.30	20.70	7.37E-02		1.53E-02	3.46E-02
EU-156	811.77	10.40	2.80E-01	2.80E-01	5.20E-03	1.23E-01
	1153.47	7.20	4.82E-01		1.94E-01	2.08E-01
	1230.71	8.90	3.55E-01		2.04E-02	1.50E-01
HO-166M	184.41	72.60	2.98E-02	2.98E-02	2.13E-02	1.40E-02
	280.45	29.60	6.49E-02		5.00E-03	2.97E-02
	410.94	11.10	1.91E-01		2.30E-02	8.62E-02
	711.69	54.10	4.46E-02		-1.62E-02	1.94E-02
TM-171	66.72	0.14	1.03E+01	1.03E+01	-3.70E+00	4.76E+00
HF-172	81.75	4.52	2.51E-01	1.42E-01	-3.50E-02	1.15E-01
	125.81	11.30	1.42E-01		-7.68E-02	6.66E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	LU-172	181.53		20.60	8.40E-02	4.42E-02	-8.37E-02	3.91E-02
		810.06		16.63	1.71E-01		8.04E-03	7.49E-02
		912.12		15.25	2.00E-01		9.85E-02	8.73E-02
		1093.66		62.50	4.42E-02		1.46E-02	1.85E-02
	LU-173	100.72		5.24	2.92E-01	1.02E-01	2.26E-01	1.37E-01
		272.11		21.20	1.02E-01		-2.88E-02	4.73E-02
	HF-175	343.40		84.00	2.41E-02	2.41E-02	-5.73E-03	1.09E-02
	LU-176	88.34		13.30	1.29E-01	2.12E-02	-2.32E-02	6.10E-02
		201.83		86.00	2.38E-02		3.41E-03	1.12E-02
		306.78		94.00	2.12E-02		-5.34E-05	9.70E-03
	TA-182	67.75		41.20	3.55E-02	3.55E-02	3.73E-03	1.65E-02
		1121.30		34.90	8.74E-02		2.41E-03	3.72E-02
		1189.05		16.23	1.63E-01		-1.12E-01	6.68E-02
		1221.41		26.98	1.16E-01		1.27E-02	4.91E-02
		1231.02		11.44	2.87E-01		3.24E-02	1.22E-01
	IR-192	308.46		29.68	6.83E-02	4.07E-02	3.53E-02	3.13E-02
		468.07		48.10	4.07E-02		2.80E-03	1.80E-02
	HG-203	279.19		77.30	2.27E-02	2.27E-02	-3.24E-02	1.03E-02
+	BI-207	569.67	*	97.72	2.27E-02	2.27E-02	1.96E-02	9.99E-03
		1063.62		74.90	4.05E-02		1.26E-02	1.73E-02
	TL-208	583.14		30.22	8.59E-02	8.59E-02	1.77E-02	3.85E-02
		860.37		4.48	7.57E-01		1.47E-01	3.38E-01
		2614.66		35.85	1.20E-01		7.26E-02	5.09E-02
	BI-210M	262.00		45.00	4.39E-02	4.39E-02	1.27E-02	2.02E-02
		300.00		23.00	7.32E-02		-8.31E-02	3.29E-02
	PB-210	46.50		4.25	8.83E-01	8.83E-01	7.75E-01	4.19E-01
	PB-211	404.84		2.90	7.70E-01	7.70E-01	2.43E-01	3.49E-01
		831.96		2.90	8.25E-01		-2.52E-01	3.51E-01
	BI-212	727.17		11.80	2.20E-01	2.20E-01	3.07E-02	9.63E-02
		1620.62		2.75	1.26E+00		3.68E-01	5.24E-01
	PB-212	238.63		44.60	5.51E-02	5.51E-02	2.70E-02	2.59E-02
		300.09		3.41	4.94E-01		-5.61E-01	2.22E-01
	BI-214	609.31		46.30	7.95E-02	7.95E-02	4.02E-02	3.67E-02
		1120.29		15.10	2.09E-01		3.85E-02	8.97E-02
		1764.49		15.80	1.90E-01		7.25E-03	7.54E-02
		2204.22		4.98	5.88E-01		-6.53E-02	2.28E-01
	PB-214	295.21		19.19	1.12E-01	7.10E-02	4.00E-02	5.15E-02
		351.92		37.19	7.10E-02		1.14E-02	3.30E-02
	RN-219	401.80		6.50	3.16E-01	3.16E-01	-3.90E-02	1.42E-01
	RA-223	323.87		3.88	4.79E-01	4.79E-01	-3.87E-01	2.17E-01
	RA-224	240.98		3.95	6.02E-01	6.02E-01	3.98E-01	2.83E-01
	RA-225	40.00		31.00	2.23E-01	2.23E-01	-4.83E-02	1.06E-01
	RA-226	186.21		3.28	6.56E-01	6.56E-01	1.54E-01	3.09E-01
	TH-227	50.10		8.40	2.19E-01	1.79E-01	-7.08E-03	1.00E-01
		236.00		11.50	1.79E-01		-2.00E-01	8.34E-02
		256.20		6.30	3.24E-01		3.54E-02	1.50E-01
	AC-228	338.32		11.40	1.87E-01	1.15E-01	-7.22E-03	8.55E-02
		911.07		27.70	1.15E-01		6.07E-02	5.06E-02
		969.11		16.60	1.75E-01		1.90E-02	7.55E-02
	TH-230	48.44		16.90	1.20E-01	1.20E-01	-1.65E-01	5.47E-02
		62.85		4.60	3.92E-01		2.54E-01	1.84E-01
		67.67		0.37	3.96E+00		4.16E-01	1.84E+00
	PA-231	283.67		1.60	1.34E+00	8.90E-01	7.54E-01	6.20E-01

00306

Analysis Report for 1507182-02

BLANK

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
PA-231	302.67	2.30	8.90E-01	8.90E-01	6.48E-02	4.08E-01
TH-231	25.64	14.70	8.55E+00	1.97E-01	4.83E+00	4.11E+00
	84.21	6.40	1.97E-01		2.92E-02	9.14E-02
PA-233	311.98	38.60	4.98E-02	4.98E-02	-1.54E-02	2.26E-02
PA-234	131.20	20.40	8.39E-02	8.39E-02	2.38E-03	3.95E-02
	733.99	8.80	3.46E-01		4.07E-02	1.55E-01
	946.00	12.00	1.83E-01		-5.49E-02	7.51E-02
PA-234M	1001.03	0.92	3.25E+00	3.25E+00	4.49E-01	1.40E+00
TH-234	63.29	3.80	4.71E-01	4.71E-01	3.05E-01	2.21E-01
U-235	143.76	10.50	1.74E-01	1.74E-01	9.91E-02	8.22E-02
	163.35	4.70	3.78E-01		4.98E-02	1.77E-01
	205.31	4.70	4.18E-01		-1.63E-01	1.95E-01
NP-237	86.50	12.60	1.38E-01	1.38E-01	5.29E-02	6.54E-02
NP-239	106.10	22.70	6.65E-02	6.65E-02	-1.31E-02	3.12E-02
	228.18	10.70	1.83E-01		4.76E-03	8.46E-02
	277.60	14.10	1.41E-01		9.19E-03	6.46E-02
AM-241	59.54	35.90	4.47E-02	4.47E-02	1.33E-02	2.07E-02
AM-243	74.67	66.00	2.06E-02	2.06E-02	-5.79E-03	9.58E-03
CM-243	209.75	3.29	6.01E-01	1.39E-01	3.71E-01	2.80E-01
	228.14	10.60	1.81E-01		4.73E-03	8.39E-02
	277.60	14.00	1.39E-01		9.09E-03	6.40E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507182-02

BLANK

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	96
9:	399	986	995	381	443	1802	393	94
17:	81	90	61	76	73	68	76	68
25:	70	79	74	57	62	66	68	56
33:	56	45	47	62	62	47	54	50
41:	41	55	56	48	51	41	59	14
49:	13	11	13	12	23	22	14	13
57:	12	13	14	28	12	15	26	39
65:	21	20	26	10	24	18	19	17
73:	22	16	21	22	24	16	19	22
81:	11	14	18	12	25	18	22	25
89:	20	22	22	38	39	18	15	14
97:	11	12	17	16	16	16	18	8
105:	15	16	24	13	16	19	17	11
113:	22	11	10	7	24	24	16	14
121:	20	15	13	17	14	12	17	19
129:	26	9	18	16	18	16	10	13
137:	24	20	16	23	14	13	22	17
145:	19	20	12	12	14	14	19	20
153:	8	17	12	9	22	14	9	17
161:	14	8	24	13	14	11	16	20
169:	24	20	15	8	17	21	12	16
177:	17	16	15	14	10	14	15	6
185:	22	37	14	13	17	9	14	13
193:	9	15	15	8	5	26	17	10
201:	15	17	18	14	11	12	11	16
209:	10	10	14	15	6	13	8	8
217:	12	17	14	6	14	8	11	6
225:	8	15	8	12	14	5	12	10
233:	13	10	11	11	9	19	27	11
241:	20	14	7	6	11	11	3	15
249:	13	9	5	14	9	16	3	13
257:	7	13	10	13	11	6	9	8
265:	6	16	13	9	14	7	14	11
273:	5	17	12	15	8	3	9	7
281:	6	15	7	8	10	10	6	9
289:	7	8	7	8	8	3	10	19
297:	7	6	3	6	4	8	15	7
305:	7	9	9	6	7	8	3	5
313:	8	10	10	6	10	9	11	8
321:	10	5	5	6	6	8	11	2
329:	10	12	10	8	5	2	11	3
337:	7	9	11	8	5	7	10	4
345:	7	8	6	4	12	8	13	18
353:	8	10	9	6	6	8	8	11
361:	6	8	1	7	6	4	3	4

00309

369:	7	3	6	3	3	7	7	11

Sample Title: BLANK

Channel								
377:	7	8	2	6	4	7	8	2
385:	4	7	4	7	4	9	9	10
393:	6	2	2	2	12	6	8	4
401:	7	4	3	9	6	8	6	5
409:	3	3	12	5	5	7	2	4
417:	4	5	2	6	7	7	5	5
425:	5	6	7	3	6	5	10	5
433:	7	7	8	8	4	5	1	2
441:	5	2	8	3	4	5	5	3
449:	4	2	4	4	2	4	2	7
457:	8	3	2	1	5	4	5	5
465:	5	3	2	4	3	7	1	3
473:	8	4	9	5	6	4	3	5
481:	3	3	3	1	4	2	3	6
489:	3	7	2	2	6	4	4	4
497:	2	5	3	3	7	5	6	4
505:	3	5	4	4	9	30	36	22
513:	12	6	3	2	4	2	5	5
521:	1	3	4	5	1	3	6	6
529:	7	3	3	8	2	4	4	3
537:	8	4	6	6	4	5	1	2
545:	4	2	6	0	5	3	2	6
553:	2	5	6	3	7	1	5	3
561:	4	3	1	5	0	0	3	5
569:	5	8	5	4	2	4	2	1
577:	4	1	4	4	0	7	5	6
585:	3	0	4	2	3	3	3	3
593:	2	6	2	1	2	3	7	4
601:	5	5	4	3	5	4	8	6
609:	16	6	2	8	7	3	4	4
617:	8	5	4	2	2	1	2	1
625:	7	1	1	4	6	3	4	2
633:	3	6	3	3	5	3	8	7
641:	1	3	5	1	3	2	3	6
649:	6	1	1	3	4	2	6	1
657:	1	2	3	3	2	8	6	4
665:	0	5	4	2	4	6	1	2
673:	3	3	3	3	3	1	2	3
681:	4	1	4	3	4	1	4	3
689:	1	1	5	5	5	3	1	2
697:	3	3	5	2	0	4	6	2
705:	5	2	2	3	3	1	2	2
713:	2	2	6	2	1	2	1	3
721:	3	0	1	4	2	3	1	2
729:	1	4	2	4	3	2	2	6
737:	5	2	5	1	3	5	4	2
745:	2	1	4	0	3	5	1	1
753:	3	2	2	2	4	4	2	2
761:	5	2	1	1	2	2	5	4
769:	4	6	7	2	1	4	2	0
777:	3	2	4	3	1	1	2	3
785:	3	1	3	5	3	4	2	0
793:	2	3	3	4	1	4	2	0

00310

801:	1	1	0	5	1	3	0	3

Sample Title: BLANK

Channel								
809:	4	4	3	1	2	1	4	2
817:	2	2	0	4	3	1	1	2
825:	1	3	0	4	3	3	2	0
833:	1	2	0	4	1	1	2	5
841:	2	3	0	5	1	1	3	2
849:	2	2	1	3	3	0	2	1
857:	2	3	5	2	4	4	3	4
865:	3	1	0	1	1	1	1	1
873:	1	2	0	2	1	1	2	2
881:	1	4	3	1	2	2	3	1
889:	1	2	2	2	4	0	3	0
897:	2	1	3	2	3	2	2	2
905:	4	2	1	2	2	2	7	4
913:	1	0	0	1	0	1	1	3
921:	2	5	1	2	0	3	1	4
929:	1	3	2	3	6	1	2	1
937:	1	2	3	0	3	2	1	0
945:	0	5	0	0	1	2	0	2
953:	1	0	1	5	2	1	0	3
961:	2	2	0	2	3	0	1	2
969:	2	4	3	1	0	1	2	2
977:	2	1	0	5	2	1	1	1
985:	2	2	0	3	3	1	2	1
993:	6	1	1	3	1	2	2	0
1001:	3	1	2	3	2	0	2	1
1009:	2	2	1	2	1	1	1	0
1017:	3	1	0	1	1	2	1	1
1025:	1	1	1	1	0	3	2	0
1033:	1	1	2	0	1	1	1	0
1041:	0	0	3	1	1	1	1	1
1049:	1	1	2	1	1	0	1	1
1057:	0	2	1	2	1	3	3	1
1065:	0	2	1	0	0	1	0	0
1073:	0	0	1	0	2	1	2	0
1081:	1	1	2	3	1	0	1	1
1089:	0	1	1	1	2	2	0	2
1097:	1	0	0	3	1	2	3	1
1105:	2	4	0	3	2	0	1	0
1113:	1	1	3	2	1	2	0	2
1121:	4	1	2	0	0	3	1	3
1129:	0	0	1	0	0	3	1	1
1137:	2	1	6	1	1	1	2	0
1145:	1	2	0	1	0	3	3	1
1153:	4	1	2	0	0	2	2	2
1161:	2	0	2	1	1	1	2	2
1169:	1	2	2	1	4	2	1	1
1177:	3	2	1	1	1	2	0	1
1185:	1	1	1	0	3	0	2	0
1193:	4	3	0	0	0	0	0	0
1201:	0	1	1	1	3	3	3	3
1209:	1	0	0	3	0	0	1	1
1217:	4	4	1	0	0	2	2	1
1225:	0	2	2	1	1	1	2	2

1233:	1	3	0	1	4	1	0	0

Sample Title: BLANK

Channel								
1241:	4	1	1	0	0	2	4	0
1249:	0	1	0	1	0	0	1	0
1257:	1	1	1	0	0	3	1	1
1265:	5	1	1	1	1	1	0	1
1273:	1	0	1	0	2	1	2	0
1281:	2	0	0	0	0	1	2	1
1289:	1	0	1	2	1	1	1	1
1297:	0	2	1	0	0	2	2	1
1305:	0	1	0	1	1	0	2	0
1313:	1	1	0	0	1	1	2	1
1321:	0	0	0	2	0	1	0	0
1329:	0	2	3	3	3	1	0	1
1337:	1	2	1	2	2	0	2	0
1345:	0	2	2	0	2	1	0	1
1353:	0	2	1	1	2	2	0	0
1361:	0	0	0	1	1	1	0	2
1369:	1	2	0	0	0	0	1	2
1377:	3	2	2	0	1	1	0	2
1385:	1	0	0	3	2	0	0	1
1393:	2	0	2	0	3	0	1	2
1401:	3	0	1	1	0	0	3	1
1409:	1	1	0	1	2	0	0	3
1417:	0	0	2	0	0	1	1	2
1425:	0	1	0	1	1	0	2	2
1433:	1	0	0	0	2	0	2	1
1441:	1	2	0	0	0	0	1	1
1449:	1	0	1	1	2	1	1	1
1457:	1	1	1	2	7	1	3	0
1465:	0	0	0	0	1	0	0	0
1473:	1	1	1	1	2	2	1	1
1481:	0	0	0	0	3	0	0	1
1489:	0	0	0	3	1	0	1	0
1497:	0	1	0	0	2	1	0	0
1505:	0	0	0	2	1	0	0	1
1513:	0	1	0	0	0	0	0	1
1521:	0	0	1	0	3	2	2	1
1529:	2	1	0	0	0	0	0	0
1537:	2	2	1	0	2	0	1	1
1545:	1	0	1	0	1	1	2	0
1553:	1	0	0	1	0	0	2	0
1561:	1	2	1	0	0	2	0	1
1569:	1	3	0	0	0	1	0	1
1577:	1	0	0	0	0	0	1	0
1585:	0	2	0	0	2	0	0	0
1593:	3	0	1	2	0	0	0	1
1601:	0	1	0	1	0	0	0	1
1609:	2	0	1	0	1	0	0	1
1617:	0	0	0	1	1	0	4	1
1625:	1	1	0	1	1	0	0	0
1633:	1	0	0	0	1	0	2	0
1641:	1	0	0	0	1	0	1	0
1649:	1	0	0	0	0	0	0	0
1657:	0	0	0	0	0	0	0	0

1665:	1	0	0	0	1	1	0	0

Sample Title: BLANK

Channel							
1673:	0	1	2	0	0	0	0	1
1681:	0	0	0	0	0	2	0	3
1689:	1	0	1	0	0	0	0	0
1697:	0	1	1	0	1	0	0	1
1705:	0	1	0	0	1	0	0	1
1713:	0	1	1	0	1	1	4	0
1721:	0	1	1	0	2	0	0	0
1729:	0	0	1	0	1	0	0	1
1737:	0	1	0	2	0	0	1	0
1745:	0	0	1	0	1	1	1	0
1753:	2	0	1	2	1	0	1	1
1761:	1	1	1	0	0	1	0	0
1769:	1	0	2	0	0	1	1	0
1777:	0	1	2	1	0	0	0	2
1785:	0	0	1	0	0	0	0	0
1793:	1	0	1	0	0	0	1	0
1801:	2	0	2	0	0	1	0	2
1809:	0	0	0	1	0	2	0	0
1817:	1	0	0	1	0	0	0	0
1825:	0	0	0	1	0	1	1	1
1833:	0	1	0	0	0	0	0	0
1841:	0	0	1	0	2	1	1	0
1849:	0	1	0	1	0	0	1	0
1857:	0	0	0	1	2	0	1	0
1865:	0	0	0	0	1	1	0	0
1873:	1	1	0	2	0	1	1	2
1881:	0	0	1	1	0	0	0	2
1889:	0	0	0	0	0	0	0	1
1897:	1	0	0	0	2	0	0	0
1905:	0	1	1	1	2	0	0	3
1913:	0	0	0	0	3	0	0	0
1921:	0	2	1	1	0	0	0	0
1929:	0	0	1	1	0	1	0	0
1937:	0	0	0	0	0	0	1	0
1945:	0	2	0	0	0	0	0	0
1953:	0	1	0	0	0	1	0	1
1961:	0	0	1	0	0	0	1	1
1969:	0	0	0	0	0	0	0	0
1977:	0	3	0	1	0	0	0	1
1985:	0	0	1	0	0	0	0	0
1993:	1	0	0	0	0	0	0	1
2001:	0	0	0	0	2	0	1	0
2009:	0	0	1	0	0	0	0	0
2017:	1	1	0	0	0	0	0	0
2025:	0	0	0	1	0	1	0	0
2033:	0	1	2	0	0	0	0	0
2041:	0	0	0	0	0	0	0	1
2049:	0	0	0	0	0	1	0	1
2057:	1	0	0	0	0	0	0	1
2065:	1	0	0	0	1	0	0	0
2073:	0	0	0	1	0	0	1	0
2081:	0	0	0	0	0	0	0	1
2089:	1	0	1	0	1	0	0	0

2097:	1	0	0	2	1	0	0	0

Sample Title: BLANK

Channel								
2105:	0	0	0	1	2	0	1	0
2113:	0	1	0	1	1	1	1	0
2121:	1	1	0	0	0	1	0	0
2129:	1	0	1	2	0	1	0	0
2137:	1	1	0	0	0	0	1	0
2145:	0	0	0	1	0	0	0	0
2153:	0	2	0	0	1	2	0	0
2161:	0	1	0	2	2	1	0	1
2169:	0	1	0	0	0	0	1	1
2177:	0	0	0	0	0	0	1	0
2185:	0	0	0	1	1	0	0	0
2193:	1	1	0	0	1	0	2	0
2201:	1	1	0	0	1	1	0	0
2209:	0	0	1	0	0	0	0	1
2217:	0	0	0	0	2	0	0	0
2225:	0	0	0	1	0	0	0	0
2233:	0	0	0	1	0	0	1	0
2241:	0	1	1	1	0	0	1	0
2249:	1	0	0	0	0	0	1	0
2257:	0	0	1	2	2	1	1	0
2265:	1	1	0	1	0	0	0	0
2273:	2	1	0	0	0	0	0	0
2281:	0	0	0	0	0	0	0	0
2289:	0	0	0	0	0	0	1	2
2297:	0	1	0	0	0	0	1	0
2305:	0	1	1	0	0	0	0	1
2313:	0	0	0	1	0	0	1	0
2321:	1	0	0	0	0	0	0	0
2329:	0	0	0	0	1	0	2	1
2337:	0	0	0	0	0	0	0	1
2345:	1	1	0	0	0	1	0	0
2353:	0	1	1	0	1	0	1	0
2361:	0	0	1	0	0	1	0	2
2369:	0	0	1	2	0	0	1	1
2377:	1	1	0	0	0	1	0	2
2385:	2	2	0	1	0	0	0	0
2393:	0	2	0	0	0	0	0	0
2401:	1	1	1	0	0	1	0	0
2409:	0	0	0	0	0	0	0	2
2417:	0	2	0	0	0	0	0	1
2425:	0	0	0	0	2	0	1	0
2433:	0	0	0	0	0	1	1	0
2441:	0	0	0	0	1	1	1	0
2449:	0	0	0	0	0	0	1	0
2457:	0	0	0	0	1	0	0	0
2465:	0	1	0	0	1	0	0	2
2473:	0	0	1	0	0	0	0	0
2481:	0	0	0	2	0	0	0	0
2489:	0	1	1	1	1	0	0	0
2497:	0	1	0	0	0	1	1	0
2505:	4	0	0	0	1	0	0	0
2513:	0	0	0	0	1	0	0	1
2521:	0	0	2	0	0	1	0	1

2529:	1	0	0	0	0	0	0	0

Sample Title: BLANK

Channel							
2537:	0	2	1	0	0	1	0	0
2545:	0	1	1	0	0	0	0	0
2553:	0	3	0	0	0	1	0	1
2561:	0	1	0	0	0	0	1	0
2569:	0	0	0	0	0	0	0	1
2577:	0	1	0	1	0	0	0	0
2585:	0	0	0	0	0	0	0	0
2593:	0	0	0	1	0	0	0	0
2601:	0	1	0	0	0	0	0	0
2609:	0	1	0	0	2	4	4	0
2617:	0	0	0	0	0	0	0	0
2625:	0	0	0	0	0	0	0	0
2633:	0	1	1	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	1	0	1	0	0	2	0	0
2657:	0	0	1	0	0	1	0	0
2665:	0	1	0	0	0	0	1	0
2673:	0	1	0	1	0	1	0	1
2681:	1	0	0	0	0	0	0	0
2689:	0	0	1	0	0	0	0	0
2697:	0	0	0	1	0	0	0	0
2705:	0	0	0	1	0	0	0	0
2713:	0	0	1	1	0	0	0	1
2721:	0	0	0	1	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	2	0	0	1	0	0	0	1
2745:	0	3	0	0	0	0	0	0
2753:	1	0	0	0	1	0	0	0
2761:	0	0	1	0	0	0	1	0
2769:	1	0	0	0	1	0	0	1
2777:	0	0	0	0	0	0	0	0
2785:	0	2	0	0	0	0	0	0
2793:	1	0	0	0	1	0	0	0
2801:	1	0	0	1	0	1	0	0
2809:	0	0	0	1	1	1	1	0
2817:	0	0	0	2	0	0	0	0
2825:	1	1	0	0	0	2	1	0
2833:	1	0	0	0	0	0	0	0
2841:	0	0	0	0	1	0	0	0
2849:	1	0	0	0	0	1	0	0
2857:	0	0	0	0	0	1	0	0
2865:	1	1	0	0	0	1	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	1	0	0	0	0
2889:	1	0	0	0	0	0	0	2
2897:	0	0	0	0	0	1	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	1
2937:	2	1	1	0	0	0	0	0
2945:	0	0	0	0	0	0	1	0
2953:	0	1	0	0	0	1	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	2	0	0	0
2985:	0	0	2	0	0	0	0	0
2993:	0	0	0	0	0	0	0	1
3001:	0	0	0	0	1	0	0	0
3009:	0	1	0	0	0	0	0	2
3017:	0	0	0	1	0	0	0	1
3025:	0	0	0	0	1	0	0	0
3033:	1	1	0	0	0	0	0	0
3041:	0	0	0	0	1	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	1	0	0	1	2	0	0
3065:	0	0	0	0	2	0	0	0
3073:	2	0	0	0	1	0	0	1
3081:	0	0	0	0	0	0	1	0
3089:	0	0	0	2	0	0	0	0
3097:	0	0	0	0	1	1	0	0
3105:	0	0	0	0	0	0	0	0
3113:	1	1	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	1	1	0	0	0	0	0
3137:	0	0	0	0	0	0	1	1
3145:	1	0	0	1	0	0	0	0
3153:	0	0	0	0	0	0	0	1
3161:	0	0	1	0	0	0	2	0
3169:	0	0	0	0	0	0	0	1
3177:	0	1	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	1	0	1	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	1	1	0	0
3233:	0	1	0	0	0	0	0	1
3241:	1	0	0	0	1	0	1	2
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	1	0	1
3265:	0	0	0	0	0	0	0	1
3273:	0	1	0	0	0	0	0	0
3281:	0	0	0	2	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	1	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	1	2	1	0	0	0	0	0
3337:	0	0	1	0	0	0	0	0
3345:	1	0	0	0	0	1	0	0
3353:	0	0	0	0	1	0	0	1
3361:	1	1	0	1	0	0	0	0
3369:	1	0	0	0	0	0	2	0
3377:	2	0	1	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: BLANK

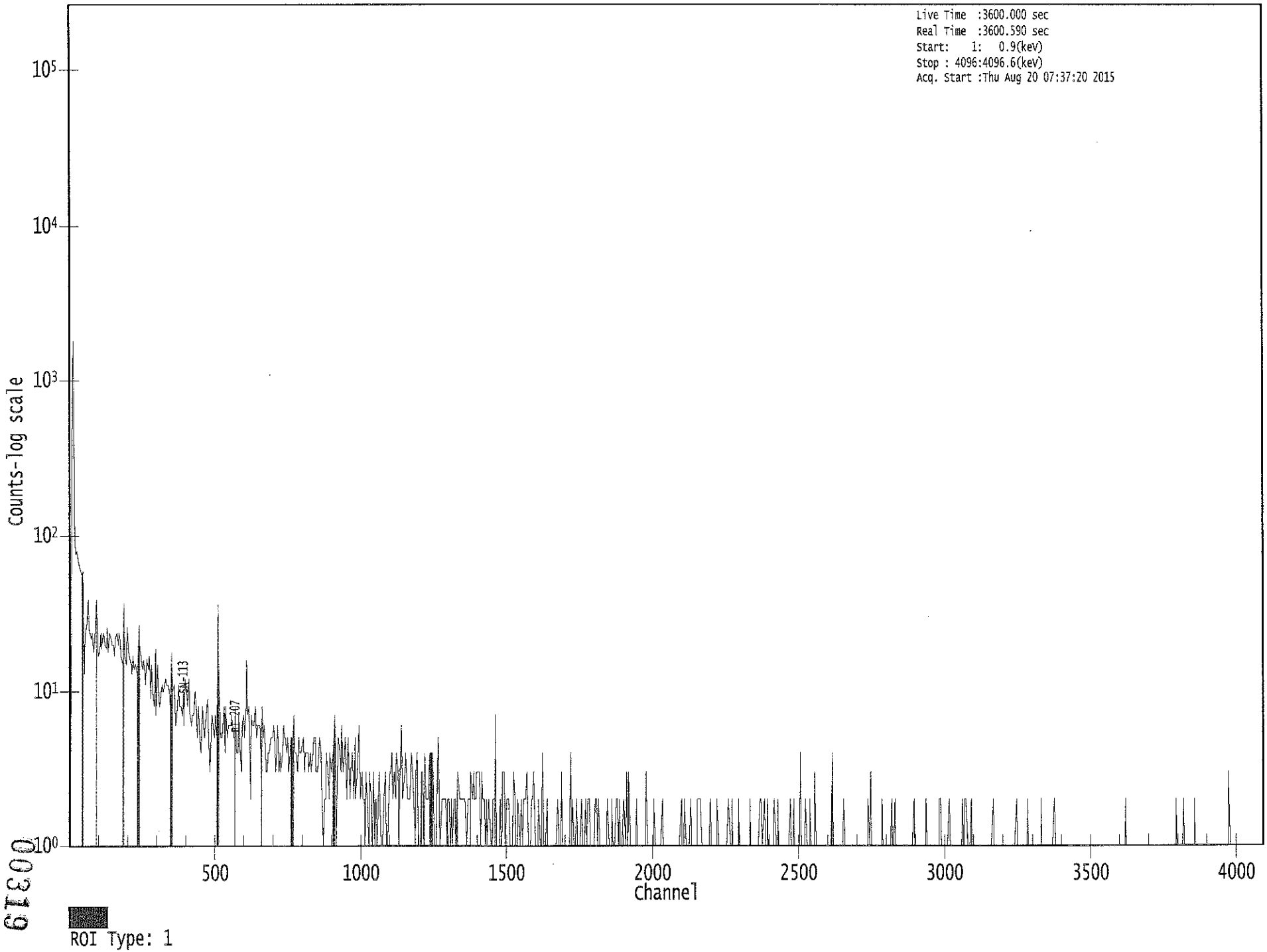
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	1	0	0	0	0	0	0	1
3425:	0	0	0	0	0	0	0	1
3433:	1	0	0	0	0	0	0	0
3441:	1	0	0	0	1	1	1	0
3449:	1	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	1	0	0	0	1	0	0	1
3473:	0	0	0	1	0	0	0	0
3481:	0	0	1	0	0	0	0	0
3489:	0	0	0	0	1	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	0	1	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	0	0	1	1	1
3553:	0	0	0	0	0	0	0	0
3561:	0	0	1	0	1	0	1	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	1	0
3593:	0	0	1	0	0	0	0	0
3601:	1	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	1	0	2	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	1	0	1	1	0	1
3641:	0	0	0	1	1	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	1	0	0	0	0
3681:	0	0	1	0	0	0	0	1
3689:	0	0	0	1	0	0	0	0
3697:	0	0	0	0	1	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	1	0	0	0	0	0
3721:	0	0	0	1	0	0	0	0
3729:	1	0	0	0	1	0	0	1
3737:	0	0	1	0	0	0	0	0
3745:	1	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	1	0	0	0	0	0	0
3769:	0	1	0	1	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	1	1	0	0	0	0	0
3793:	0	2	0	0	0	0	0	0
3801:	1	1	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	1
3817:	0	0	0	2	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	0	0	1	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	2	0	0	1	0	0	0	0
3865:	0	0	1	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	1	0	1	0	1	0	1
3889:	0	0	1	0	0	0	0	0
3897:	0	0	0	0	1	0	0	0
3905:	0	1	0	0	0	0	0	1
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	1	1
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	1	0	0	0	0	0	0	0
3969:	0	0	0	0	3	0	1	0
3977:	0	0	0	1	0	0	0	0
3985:	0	0	0	0	0	1	0	0
3993:	1	0	0	0	0	0	0	0
4001:	0	0	0	1	0	0	0	1
4009:	0	1	0	0	0	1	0	0
4017:	0	0	0	0	0	1	0	0
4025:	0	0	0	0	0	0	0	0
4033:	1	1	0	0	0	1	0	0
4041:	0	0	1	0	0	0	0	0
4049:	0	0	0	1	0	0	0	0
4057:	1	0	0	0	0	0	0	0
4065:	1	0	0	0	0	0	0	0
4073:	0	0	0	0	0	1	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	1

0000026149.CNF



00319

Apex-Gamma

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-03
Sample Description	: FEEBRIS1D-5 063-064
Sample Type	: SOIL
Sample Size	: 4.348E+02 grams
Facility	: Countroom
Sample Taken On	: 7/20/2015 6:43:33AM
Acquisition Started	: 8/21/2015 6:11:39AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.8 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26225

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 7:11:42AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	39.90	40.26	0.0000	0.00
2	46.22	46.58	0.0000	0.00
3	62.96	63.30	0.0000	0.00
4	74.94	75.28	0.0000	0.00
5	77.46	77.80	0.0000	0.00
6	87.80	88.13	0.0000	0.00
7	92.56	92.89	0.0000	0.00
8	186.26	186.56	0.0000	0.00
9	210.00	210.29	0.0000	0.00
10	238.69	238.98	0.0000	0.00
11	241.87	242.15	0.0000	0.00
12	258.25	258.53	0.0000	0.00
13	272.32	272.59	0.0000	0.00
14	295.45	295.72	0.0000	0.00
15	300.84	301.10	0.0000	0.00
16	338.61	338.87	0.0000	0.00
17	351.95	352.20	0.0000	0.00
18	398.50	398.73	0.0000	0.00
19	428.62	428.85	0.0000	0.00
20	463.18	463.39	0.0000	0.00
21	510.81	511.00	0.0000	0.00
22	576.80	576.97	0.0000	0.00
23	583.32	583.49	0.0000	0.00
24	601.34	601.51	0.0000	0.00
25	609.50	609.66	0.0000	0.00
26	661.47	661.62	0.0000	0.00
27	665.24	665.38	0.0000	0.00
28	672.88	673.02	0.0000	0.00
29	679.48	679.61	0.0000	0.00
30	685.95	686.09	0.0000	0.00
31	725.99	726.11	0.0000	0.00
32	768.77	768.88	0.0000	0.00
33	795.04	795.14	0.0000	0.00
34	805.39	805.48	0.0000	0.00
35	860.36	860.43	0.0000	0.00
36	870.33	870.39	0.0000	0.00
37	877.93	878.00	0.0000	0.00
38	902.49	902.54	0.0000	0.00
39	911.15	911.20	0.0000	0.00
40	968.09	968.12	0.0000	0.00
41	979.50	979.53	0.0000	0.00
42	1084.05	1084.04	0.0000	0.00

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1093.52	1093.51	0.0000	0.00
44	1120.26	1120.24	0.0000	0.00
45	1238.56	1238.50	0.0000	0.00
46	1304.39	1304.30	0.0000	0.00
47	1313.18	1313.09	0.0000	0.00
48	1377.49	1377.38	0.0000	0.00
49	1447.08	1446.94	0.0000	0.00
50	1460.90	1460.75	0.0000	0.00
51	1506.83	1506.67	0.0000	0.00
52	1630.91	1630.70	0.0000	0.00
53	1730.22	1729.98	0.0000	0.00
54	1764.02	1763.76	0.0000	0.00
55	1831.71	1831.43	0.0000	0.00
56	1846.34	1846.05	0.0000	0.00
57	2203.88	2203.46	0.0000	0.00
58	2447.52	2447.00	0.0000	0.00
59	2614.06	2613.48	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 7:11:42AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	39.90	38 -	43	40.26	4.41E+01	51.55	4.98E+02	1.46
	2	46.22	44 -	51	46.58	1.17E+02	68.56	7.08E+02	1.58
	3	62.96	59 -	66	63.30	1.99E+02	83.64	1.04E+03	1.38
M	4	74.94	72 -	81	75.28	2.91E+02	70.90	6.79E+02	1.60
m	5	77.46	72 -	81	77.80	3.74E+02	76.38	6.86E+02	1.61
M	6	87.80	83 -	97	88.13	1.23E+02	50.64	5.48E+02	1.48
m	7	92.56	83 -	97	92.89	2.66E+02	57.13	5.09E+02	1.49
	8	186.26	183 -	190	186.56	1.65E+02	63.69	5.62E+02	1.56
	9	210.00	206 -	214	210.29	5.08E+01	60.11	5.10E+02	4.47
M	10	238.69	234 -	246	238.98	5.28E+02	54.36	2.39E+02	1.67
m	11	241.87	234 -	246	242.15	8.60E+01	42.13	2.09E+02	1.68
	12	258.25	256 -	261	258.53	3.81E+01	34.87	2.08E+02	2.19
	13	272.32	262 -	282	272.59	1.58E+02	92.94	6.41E+02	16.58
M	14	295.45	292 -	310	295.72	1.71E+02	36.49	1.69E+02	1.69
m	15	300.84	292 -	310	301.10	3.51E+01	33.50	1.75E+02	2.11
	16	338.61	335 -	343	338.87	8.20E+01	48.43	3.10E+02	1.62
	17	351.95	347 -	356	352.20	3.53E+02	58.35	2.83E+02	1.78
	18	398.50	396 -	401	398.73	2.44E+01	26.94	1.25E+02	1.69
	19	428.62	425 -	432	428.85	3.05E+01	28.98	1.19E+02	1.17
	20	463.18	460 -	467	463.39	3.75E+01	35.44	1.85E+02	1.90
	21	510.81	505 -	517	511.00	1.62E+02	45.08	1.64E+02	2.63
M	22	576.80	574 -	587	576.97	1.88E+01	24.95	9.69E+01	2.86
m	23	583.32	574 -	587	583.49	1.56E+02	31.80	7.98E+01	1.94
	24	601.34	598 -	605	601.51	2.26E+01	26.76	1.05E+02	3.49
	25	609.50	605 -	614	609.66	2.60E+02	44.94	1.40E+02	1.97
M	26	661.47	658 -	682	661.62	4.21E+01	23.43	8.97E+01	2.21
m	27	665.24	658 -	682	665.38	1.68E+01	22.82	7.33E+01	2.21
m	28	672.88	658 -	682	673.02	2.37E+01	21.65	5.13E+01	2.22
m	29	679.48	658 -	682	679.61	1.60E+01	20.51	3.43E+01	2.22
	30	685.95	683 -	690	686.09	2.49E+01	20.98	5.81E+01	3.98
	31	725.99	722 -	730	726.11	4.66E+01	23.22	5.47E+01	2.05
	32	768.77	763 -	775	768.88	4.80E+01	31.10	9.21E+01	7.45
	33	795.04	791 -	798	795.14	2.52E+01	23.07	7.16E+01	1.42
	34	805.39	802 -	808	805.48	2.24E+01	19.80	5.31E+01	2.77
	35	860.36	858 -	864	860.43	2.58E+01	19.99	5.64E+01	2.77
M	36	870.33	868 -	883	870.39	2.22E+01	13.67	3.00E+01	2.35
m	37	877.93	868 -	883	878.00	1.03E+01	15.62	3.60E+01	1.94
	38	902.49	899 -	908	902.54	1.75E+01	21.42	5.70E+01	2.79
	39	911.15	908 -	915	911.20	9.47E+01	26.31	5.27E+01	1.79
	40	968.09	963 -	972	968.12	6.86E+01	29.48	8.49E+01	1.62

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	979.50	976 -	982	979.53	1.59E+01	15.95	3.41E+01	2.54
	42	1084.05	1081 -	1089	1084.04	1.79E+01	13.89	2.02E+01	4.75
	43	1093.52	1089 -	1098	1093.51	2.54E+01	16.64	2.52E+01	5.12
	44	1120.26	1117 -	1124	1120.24	5.03E+01	26.83	8.34E+01	1.50
	45	1238.56	1232 -	1245	1238.50	4.40E+01	31.38	8.60E+01	6.52
M	46	1304.39	1293 -	1317	1304.30	1.31E+01	15.75	1.83E+01	3.44
m	47	1313.18	1293 -	1317	1313.09	1.21E+01	15.62	2.64E+01	3.44
	48	1377.49	1375 -	1381	1377.38	1.38E+01	13.92	2.63E+01	1.28
	49	1447.08	1442 -	1451	1446.94	1.50E+01	14.14	2.00E+01	3.12
	50	1460.90	1454 -	1467	1460.75	4.80E+02	45.23	1.34E+01	2.24
	51	1506.83	1504 -	1509	1506.67	9.29E+00	9.11	9.43E+00	3.31
	52	1630.91	1627 -	1633	1630.70	9.36E+00	7.50	3.27E+00	2.72
	53	1730.22	1726 -	1733	1729.98	1.40E+01	8.94	3.94E+00	1.95
	54	1764.02	1758 -	1767	1763.76	4.50E+01	15.81	1.00E+01	1.94
	55	1831.71	1828 -	1834	1831.43	7.00E+00	5.29	0.00E+00	1.12
	56	1846.34	1842 -	1849	1846.05	1.90E+01	8.72	0.00E+00	4.80
	57	2203.88	2200 -	2207	2203.46	1.58E+01	9.38	4.44E+00	4.52
	58	2447.52	2443 -	2450	2447.00	8.00E+00	5.66	0.00E+00	2.22
	59	2614.06	2607 -	2617	2613.48	5.08E+01	15.56	4.49E+00	3.41

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 7:11:42AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	39.90	38 -	43	4.41E+01	51.55	4.98E+02	4.09E+01
	2	46.22	44 -	51	1.17E+02	68.56	7.08E+02	5.35E+01
	3	62.96	59 -	66	1.99E+02	83.64	1.04E+03	6.47E+01
M	4	74.94	72 -	81	2.91E+02	70.90	6.79E+02	4.28E+01
m	5	77.46	72 -	81	3.74E+02	76.38	6.86E+02	4.31E+01
M	6	87.80	83 -	97	1.23E+02	50.64	5.48E+02	3.85E+01
m	7	92.56	83 -	97	2.66E+02	57.13	5.09E+02	3.71E+01
	8	186.26	183 -	190	1.65E+02	63.69	5.62E+02	4.79E+01
	9	210.00	206 -	214	5.08E+01	60.11	5.10E+02	4.80E+01

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	10	238.69	234 -	246	5.28E+02	54.36	2.39E+02	2.54E+01
m	11	241.87	234 -	246	8.60E+01	42.13	2.09E+02	2.38E+01
	12	258.25	256 -	261	3.81E+01	34.87	2.08E+02	2.68E+01
	13	272.32	262 -	282	1.58E+02	92.94	6.41E+02	7.36E+01
M	14	295.45	292 -	310	1.71E+02	36.49	1.69E+02	2.14E+01
m	15	300.84	292 -	310	3.51E+01	33.50	1.75E+02	2.18E+01
	16	338.61	335 -	343	8.20E+01	48.43	3.10E+02	3.69E+01
	17	351.95	347 -	356	3.53E+02	58.35	2.83E+02	3.67E+01
	18	398.50	396 -	401	2.44E+01	26.94	1.25E+02	2.06E+01
	19	428.62	425 -	432	3.05E+01	28.98	1.19E+02	2.20E+01
	20	463.18	460 -	467	3.75E+01	35.44	1.85E+02	2.73E+01
	21	510.81	505 -	517	1.62E+02	45.08	1.64E+02	3.06E+01
M	22	576.80	574 -	587	1.88E+01	24.95	9.69E+01	1.62E+01
m	23	583.32	574 -	587	1.56E+02	31.80	7.98E+01	1.47E+01
	24	601.34	598 -	605	2.26E+01	26.76	1.05E+02	2.06E+01
	25	609.50	605 -	614	2.60E+02	44.94	1.40E+02	2.57E+01
M	26	661.47	658 -	682	4.21E+01	23.43	8.97E+01	1.56E+01
m	27	665.24	658 -	682	1.68E+01	22.82	7.33E+01	1.41E+01
m	28	672.88	658 -	682	2.37E+01	21.65	5.13E+01	1.18E+01
m	29	679.48	658 -	682	1.60E+01	20.51	3.43E+01	9.63E+00
	30	685.95	683 -	690	2.49E+01	20.98	5.81E+01	1.52E+01
	31	725.99	722 -	730	4.66E+01	23.22	5.47E+01	1.54E+01
	32	768.77	763 -	775	4.80E+01	31.10	9.21E+01	2.29E+01
	33	795.04	791 -	798	2.52E+01	23.07	7.16E+01	1.71E+01
	34	805.39	802 -	808	2.24E+01	19.80	5.31E+01	1.43E+01
	35	860.36	858 -	864	2.58E+01	19.99	5.64E+01	1.42E+01
M	36	870.33	868 -	883	2.22E+01	13.67	3.00E+01	9.00E+00
m	37	877.93	868 -	883	1.03E+01	15.62	3.60E+01	9.86E+00
	38	902.49	899 -	908	1.75E+01	21.42	5.70E+01	1.62E+01
	39	911.15	908 -	915	9.47E+01	26.31	5.27E+01	1.46E+01
	40	968.09	963 -	972	6.86E+01	29.48	8.49E+01	2.00E+01
	41	979.50	976 -	982	1.59E+01	15.95	3.41E+01	1.14E+01
	42	1084.05	1081 -	1089	1.79E+01	13.89	2.02E+01	9.06E+00
	43	1093.52	1089 -	1098	2.54E+01	16.64	2.52E+01	1.09E+01
	44	1120.26	1117 -	1124	5.03E+01	26.83	8.34E+01	1.87E+01
	45	1238.56	1232 -	1245	4.40E+01	31.38	8.60E+01	2.34E+01
M	46	1304.39	1293 -	1317	1.31E+01	15.75	1.83E+01	7.03E+00
m	47	1313.18	1293 -	1317	1.21E+01	15.62	2.64E+01	8.44E+00
	48	1377.49	1375 -	1381	1.38E+01	13.92	2.63E+01	9.67E+00
	49	1447.08	1442 -	1451	1.50E+01	14.14	2.00E+01	9.73E+00
	50	1460.90	1454 -	1467	4.80E+02	45.23	1.34E+01	9.18E+00
	51	1506.83	1504 -	1509	9.29E+00	9.11	9.43E+00	5.57E+00
	52	1630.91	1627 -	1633	9.36E+00	7.50	3.27E+00	3.56E+00
	53	1730.22	1726 -	1733	1.40E+01	8.94	3.94E+00	4.02E+00
	54	1764.02	1758 -	1767	4.50E+01	15.81	1.00E+01	6.88E+00
	55	1831.71	1828 -	1834	7.00E+00	5.29	0.00E+00	0.00E+00
	56	1846.34	1842 -	1849	1.90E+01	8.72	0.00E+00	0.00E+00
	57	2203.88	2200 -	2207	1.58E+01	9.38	4.44E+00	4.10E+00
	58	2447.52	2443 -	2450	8.00E+00	5.66	0.00E+00	0.00E+00
	59	2614.06	2607 -	2617	5.08E+01	15.56	4.49E+00	5.15E+00

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 7:11:42AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	39.90	38 -	43	40.26	4.41E+01	51.55	4.98E+02	RA-225
									I-129
	2	46.22	44 -	51	46.58	1.17E+02	68.56	7.08E+02	PB-210
	3	62.96	59 -	66	63.30	1.99E+02	83.64	1.04E+03	TH-230
									TH-234
M	4	74.94	72 -	81	75.28	2.91E+02	70.90	6.79E+02	AM-243
m	5	77.46	72 -	81	77.80	3.74E+02	76.38	6.86E+02	TI-44
M	6	87.80	83 -	97	88.13	1.23E+02	50.64	5.48E+02	SN-126
									CD-109
									LU-176
m	7	92.56	83 -	97	92.89	2.66E+02	57.13	5.09E+02	GA-67
	8	186.26	183 -	190	186.56	1.65E+02	63.69	5.62E+02	RA-226
	9	210.00	206 -	214	210.29	5.08E+01	60.11	5.10E+02	CM-243
M	10	238.69	234 -	246	238.98	5.28E+02	54.36	2.39E+02	PB-212
m	11	241.87	234 -	246	242.15	8.60E+01	42.13	2.09E+02	RA-224
	12	258.25	256 -	261	258.53	3.81E+01	34.87	2.08E+02	.....
	13	272.32	262 -	282	272.59	1.58E+02	92.94	6.41E+02	LU-173
M	14	295.45	292 -	310	295.72	1.71E+02	36.49	1.69E+02	PB-214
m	15	300.84	292 -	310	301.10	3.51E+01	33.50	1.75E+02	GA-67
									PB-212
									BI-210M
	16	338.61	335 -	343	338.87	8.20E+01	48.43	3.10E+02	AC-228
	17	351.95	347 -	356	352.20	3.53E+02	58.35	2.83E+02	PB-214
	18	398.50	396 -	401	398.73	2.44E+01	26.94	1.25E+02	.....
	19	428.62	425 -	432	428.85	3.05E+01	28.98	1.19E+02	SB-125
	20	463.18	460 -	467	463.39	3.75E+01	35.44	1.85E+02	SB-125
	21	510.81	505 -	517	511.00	1.62E+02	45.08	1.64E+02	.....
M	22	576.80	574 -	587	576.97	1.88E+01	24.95	9.69E+01	.....
m	23	583.32	574 -	587	583.49	1.56E+02	31.80	7.98E+01	TL-208
	24	601.34	598 -	605	601.51	2.26E+01	26.76	1.05E+02	SB-125

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	25	609.50	605 -	614	609.66	2.60E+02	44.94	1.40E+02	BI-214
M	26	661.47	658 -	682	661.62	4.21E+01	23.43	8.97E+01	CS-137
m	27	665.24	658 -	682	665.38	1.68E+01	22.82	7.33E+01	CE-143
m	28	672.88	658 -	682	673.02	2.37E+01	21.65	5.13E+01	.....
m	29	679.48	658 -	682	679.61	1.60E+01	20.51	3.43E+01	.....
	30	685.95	683 -	690	686.09	2.49E+01	20.98	5.81E+01	SB-127
	31	725.99	722 -	730	726.11	4.66E+01	23.22	5.47E+01	.....
	32	768.77	763 -	775	768.88	4.80E+01	31.10	9.21E+01	.....
	33	795.04	791 -	798	795.14	2.52E+01	23.07	7.16E+01	CS-134
	34	805.39	802 -	808	805.48	2.24E+01	19.80	5.31E+01	.....
	35	860.36	858 -	864	860.43	2.58E+01	19.99	5.64E+01	TL-208
M	36	870.33	868 -	883	870.39	2.22E+01	13.67	3.00E+01	NB-94
m	37	877.93	868 -	883	878.00	1.03E+01	15.62	3.60E+01	.....
	38	902.49	899 -	908	902.54	1.75E+01	21.42	5.70E+01	.....
	39	911.15	908 -	915	911.20	9.47E+01	26.31	5.27E+01	AC-228 LU-172
	40	968.09	963 -	972	968.12	6.86E+01	29.48	8.49E+01	.....
	41	979.50	976 -	982	979.53	1.59E+01	15.95	3.41E+01	.....
	42	1084.05	1081 -	1089	1084.04	1.79E+01	13.89	2.02E+01	.....
	43	1093.52	1089 -	1098	1093.51	2.54E+01	16.64	2.52E+01	LU-172
	44	1120.26	1117 -	1124	1120.24	5.03E+01	26.83	8.34E+01	BI-214 SC-46
	45	1238.56	1232 -	1245	1238.50	4.40E+01	31.38	8.60E+01	CO-56
M	46	1304.39	1293 -	1317	1304.30	1.31E+01	15.75	1.83E+01	.....
m	47	1313.18	1293 -	1317	1313.09	1.21E+01	15.62	2.64E+01	.....
	48	1377.49	1375 -	1381	1377.38	1.38E+01	13.92	2.63E+01	.....
	49	1447.08	1442 -	1451	1446.94	1.50E+01	14.14	2.00E+01	.....
	50	1460.90	1454 -	1467	1460.75	4.80E+02	45.23	1.34E+01	K-40
	51	1506.83	1504 -	1509	1506.67	9.29E+00	9.11	9.43E+00	.....
	52	1630.91	1627 -	1633	1630.70	9.36E+00	7.50	3.27E+00	.....
	53	1730.22	1726 -	1733	1729.98	1.40E+01	8.94	3.94E+00	.....
	54	1764.02	1758 -	1767	1763.76	4.50E+01	15.81	1.00E+01	BI-214
	55	1831.71	1828 -	1834	1831.43	7.00E+00	5.29	0.00E+00	.....
	56	1846.34	1842 -	1849	1846.05	1.90E+01	8.72	0.00E+00	.....
	57	2203.88	2200 -	2207	2203.46	1.58E+01	9.38	4.44E+00	BI-214
	58	2447.52	2443 -	2450	2447.00	8.00E+00	5.66	0.00E+00	.....
	59	2614.06	2607 -	2617	2613.48	5.08E+01	15.56	4.49E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 7:11:42AM

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	39.90	4.41E+01	51.55	1.20E-02	1.78E-03
	2	46.22	1.17E+02	68.56	1.66E-02	1.78E-03
	3	62.96	1.99E+02	83.64	2.48E-02	1.90E-03
M	4	74.94	2.91E+02	70.90	2.75E-02	2.30E-03
m	5	77.46	3.74E+02	76.38	2.78E-02	2.38E-03
M	6	87.80	1.23E+02	50.64	2.85E-02	2.73E-03
m	7	92.56	2.66E+02	57.13	2.86E-02	2.65E-03
	8	186.26	1.65E+02	63.69	2.24E-02	2.03E-03
	9	210.00	5.08E+01	60.11	2.08E-02	1.85E-03
M	10	238.69	5.28E+02	54.36	1.92E-02	1.64E-03
m	11	241.87	8.60E+01	42.13	1.91E-02	1.61E-03
	12	258.25	3.81E+01	34.87	1.83E-02	1.49E-03
	13	272.32	1.58E+02	92.94	1.76E-02	1.39E-03
M	14	295.45	1.71E+02	36.49	1.67E-02	1.31E-03
m	15	300.84	3.51E+01	33.50	1.65E-02	1.30E-03
	16	338.61	8.20E+01	48.43	1.52E-02	1.22E-03
	17	351.95	3.53E+02	58.35	1.48E-02	1.19E-03
	18	398.50	2.44E+01	26.94	1.35E-02	1.11E-03
	19	428.62	3.05E+01	28.98	1.28E-02	1.08E-03
	20	463.18	3.75E+01	35.44	1.21E-02	1.04E-03
	21	510.81	1.62E+02	45.08	1.12E-02	9.90E-04
M	22	576.80	1.88E+01	24.95	1.03E-02	9.22E-04
m	23	583.32	1.56E+02	31.80	1.02E-02	9.15E-04
	24	601.34	2.26E+01	26.76	9.93E-03	8.97E-04
	25	609.50	2.60E+02	44.94	9.82E-03	8.88E-04
M	26	661.47	4.21E+01	23.43	9.22E-03	8.34E-04
m	27	665.24	1.68E+01	22.82	9.18E-03	8.31E-04
m	28	672.88	2.37E+01	21.65	9.10E-03	8.24E-04
m	29	679.48	1.60E+01	20.51	9.03E-03	8.18E-04
	30	685.95	2.49E+01	20.98	8.96E-03	8.12E-04
	31	725.99	4.66E+01	23.22	8.57E-03	7.77E-04
	32	768.77	4.80E+01	31.10	8.19E-03	7.38E-04
	33	795.04	2.52E+01	23.07	7.97E-03	7.15E-04
	34	805.39	2.24E+01	19.80	7.89E-03	7.05E-04
	35	860.36	2.58E+01	19.99	7.48E-03	6.56E-04
M	36	870.33	2.22E+01	13.67	7.41E-03	6.47E-04
m	37	877.93	1.03E+01	15.62	7.36E-03	6.40E-04
	38	902.49	1.75E+01	21.42	7.20E-03	6.20E-04
	39	911.15	9.47E+01	26.31	7.15E-03	6.16E-04
	40	968.09	6.86E+01	29.48	6.81E-03	5.86E-04
	41	979.50	1.59E+01	15.95	6.75E-03	5.80E-04
	42	1084.05	1.79E+01	13.89	6.23E-03	5.26E-04
	43	1093.52	2.54E+01	16.64	6.18E-03	5.21E-04
	44	1120.26	5.03E+01	26.83	6.07E-03	5.07E-04
	45	1238.56	4.40E+01	31.38	5.61E-03	4.68E-04
M	46	1304.39	1.31E+01	15.75	5.40E-03	4.56E-04
m	47	1313.18	1.21E+01	15.62	5.37E-03	4.55E-04
	48	1377.49	1.38E+01	13.92	5.18E-03	4.40E-04
	49	1447.08	1.50E+01	14.14	5.00E-03	4.23E-04
	50	1460.90	4.80E+02	45.23	4.97E-03	4.19E-04

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
51	1506.83	9.29E+00	9.11	4.86E-03	4.08E-04
52	1630.91	9.36E+00	7.50	4.61E-03	3.77E-04
53	1730.22	1.40E+01	8.94	4.45E-03	3.52E-04
54	1764.02	4.50E+01	15.81	4.40E-03	3.44E-04
55	1831.71	7.00E+00	5.29	4.30E-03	3.27E-04
56	1846.34	1.90E+01	8.72	4.28E-03	3.26E-04
57	2203.88	1.58E+01	9.38	3.95E-03	3.26E-04
58	2447.52	8.00E+00	5.66	3.83E-03	3.26E-04
59	2614.06	5.08E+01	15.56	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 7:11:42AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	39.90	4.41E+01	51.55			4.41E+01	5.15E+01
	2	46.22	1.17E+02	68.56	4.02E+01	8.43E+00	7.67E+01	6.91E+01
	3	62.96	1.99E+02	83.64	9.99E+01	2.42E+01	9.88E+01	8.71E+01
M	4	74.94	2.91E+02	70.90			2.91E+02	7.09E+01
m	5	77.46	3.74E+02	76.38	1.60E+01	8.83E+00	3.58E+02	7.69E+01
M	6	87.80	1.23E+02	50.64			1.23E+02	5.06E+01
m	7	92.56	2.66E+02	57.13	1.39E+02	3.80E+01	1.27E+02	6.86E+01
	8	186.26	1.65E+02	63.69	6.47E+01	7.53E+00	1.00E+02	6.41E+01
	9	210.00	5.08E+01	60.11			5.08E+01	6.01E+01
M	10	238.69	5.28E+02	54.36	1.73E+01	6.30E+00	5.11E+02	5.47E+01
m	11	241.87	8.60E+01	42.13			8.60E+01	4.21E+01
	12	258.25	3.81E+01	34.87			3.81E+01	3.49E+01
	13	272.32	1.58E+02	92.94			1.58E+02	9.29E+01
M	14	295.45	1.71E+02	36.49	0.00E+00	0.00E+00	1.71E+02	3.65E+01
m	15	300.84	3.51E+01	33.50			3.51E+01	3.35E+01
	16	338.61	8.20E+01	48.43			8.20E+01	4.84E+01
	17	351.95	3.53E+02	58.35	9.78E+00	4.40E+00	3.44E+02	5.85E+01
	18	398.50	2.44E+01	26.94			2.44E+01	2.69E+01
	19	428.62	3.05E+01	28.98			3.05E+01	2.90E+01
	20	463.18	3.75E+01	35.44			3.75E+01	3.54E+01
	21	510.81	1.62E+02	45.08	7.82E+01	5.46E+00	8.41E+01	4.54E+01

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	22	576.80	1.88E+01	24.95			1.88E+01	2.50E+01
m	23	583.32	1.56E+02	31.80	4.53E+00	3.34E+00	1.52E+02	3.20E+01
	24	601.34	2.26E+01	26.76			2.26E+01	2.68E+01
	25	609.50	2.60E+02	44.94	8.81E+00	3.15E+00	2.51E+02	4.51E+01
M	26	661.47	4.21E+01	23.43			4.21E+01	2.34E+01
m	27	665.24	1.68E+01	22.82			1.68E+01	2.28E+01
m	28	672.88	2.37E+01	21.65			2.37E+01	2.17E+01
m	29	679.48	1.60E+01	20.51			1.60E+01	2.05E+01
	30	685.95	2.49E+01	20.98			2.49E+01	2.10E+01
	31	725.99	4.66E+01	23.22			4.66E+01	2.32E+01
	32	768.77	4.80E+01	31.10			4.80E+01	3.11E+01
	33	795.04	2.52E+01	23.07			2.52E+01	2.31E+01
	34	805.39	2.24E+01	19.80			2.24E+01	1.98E+01
	35	860.36	2.58E+01	19.99			2.58E+01	2.00E+01
M	36	870.33	2.22E+01	13.67			2.22E+01	1.37E+01
m	37	877.93	1.03E+01	15.62			1.03E+01	1.56E+01
	38	902.49	1.75E+01	21.42			1.75E+01	2.14E+01
	39	911.15	9.47E+01	26.31	4.29E+00	2.56E+00	9.04E+01	2.64E+01
	40	968.09	6.86E+01	29.48			6.86E+01	2.95E+01
	41	979.50	1.59E+01	15.95			1.59E+01	1.60E+01
	42	1084.05	1.79E+01	13.89			1.79E+01	1.39E+01
	43	1093.52	2.54E+01	16.64			2.54E+01	1.66E+01
	44	1120.26	5.03E+01	26.83			5.03E+01	2.68E+01
	45	1238.56	4.40E+01	31.38			4.40E+01	3.14E+01
M	46	1304.39	1.31E+01	15.75			1.31E+01	1.57E+01
m	47	1313.18	1.21E+01	15.62			1.21E+01	1.56E+01
	48	1377.49	1.38E+01	13.92			1.38E+01	1.39E+01
	49	1447.08	1.50E+01	14.14			1.50E+01	1.41E+01
	50	1460.90	4.80E+02	45.23	5.85E+00	2.19E+00	4.74E+02	4.53E+01
	51	1506.83	9.29E+00	9.11			9.29E+00	9.11E+00
	52	1630.91	9.36E+00	7.50			9.36E+00	7.50E+00
	53	1730.22	1.40E+01	8.94			1.40E+01	8.94E+00
	54	1764.02	4.50E+01	15.81			4.50E+01	1.58E+01
	55	1831.71	7.00E+00	5.29			7.00E+00	5.29E+00
	56	1846.34	1.90E+01	8.72			1.90E+01	8.72E+00
	57	2203.88	1.58E+01	9.38	1.36E-01	1.12E+00	1.56E+01	9.45E+00
	58	2447.52	8.00E+00	5.66			8.00E+00	5.66E+00
	59	2614.06	5.08E+01	15.56	5.15E+00	1.50E+00	4.56E+01	1.56E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 7:11:42AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	39.90	4.41E+01	51.55			4.41E+01	5.15E+01
	2	46.22	1.17E+02	68.56	4.02E+01	8.43E+00	7.67E+01	6.91E+01
	3	62.96	1.99E+02	83.64	9.99E+01	2.42E+01	9.88E+01	8.71E+01
M	4	74.94	2.91E+02	70.90			2.91E+02	7.09E+01
m	5	77.46	3.74E+02	76.38	1.60E+01	8.83E+00	3.58E+02	7.69E+01
M	6	87.80	1.23E+02	50.64			1.23E+02	5.06E+01
m	7	92.56	2.66E+02	57.13	1.39E+02	3.80E+01	1.27E+02	6.86E+01
	8	186.26	1.65E+02	63.69	6.47E+01	7.53E+00	1.00E+02	6.41E+01
	9	210.00	5.08E+01	60.11			5.08E+01	6.01E+01
M	10	238.69	5.28E+02	54.36	1.73E+01	6.30E+00	5.11E+02	5.47E+01
m	11	241.87	8.60E+01	42.13			8.60E+01	4.21E+01
	12	258.25	3.81E+01	34.87			3.81E+01	3.49E+01
	13	272.32	1.58E+02	92.94			1.58E+02	9.29E+01
M	14	295.45	1.71E+02	36.49	0.00E+00	0.00E+00	1.71E+02	3.65E+01
m	15	300.84	3.51E+01	33.50			3.51E+01	3.35E+01
	16	338.61	8.20E+01	48.43			8.20E+01	4.84E+01
	17	351.95	3.53E+02	58.35	9.78E+00	4.40E+00	3.44E+02	5.85E+01
	18	398.50	2.44E+01	26.94			2.44E+01	2.69E+01
	19	428.62	3.05E+01	28.98			3.05E+01	2.90E+01
	20	463.18	3.75E+01	35.44			3.75E+01	3.54E+01
	21	510.81	1.62E+02	45.08	7.82E+01	5.46E+00	8.41E+01	4.54E+01
M	22	576.80	1.88E+01	24.95			1.88E+01	2.50E+01
m	23	583.32	1.56E+02	31.80	4.53E+00	3.34E+00	1.52E+02	3.20E+01
	24	601.34	2.26E+01	26.76			2.26E+01	2.68E+01
	25	609.50	2.60E+02	44.94	8.81E+00	3.15E+00	2.51E+02	4.51E+01
M	26	661.47	4.21E+01	23.43			4.21E+01	2.34E+01
m	27	665.24	1.68E+01	22.82			1.68E+01	2.28E+01
m	28	672.88	2.37E+01	21.65			2.37E+01	2.17E+01
m	29	679.48	1.60E+01	20.51			1.60E+01	2.05E+01
	30	685.95	2.49E+01	20.98			2.49E+01	2.10E+01
	31	725.99	4.66E+01	23.22			4.66E+01	2.32E+01
	32	768.77	4.80E+01	31.10			4.80E+01	3.11E+01
	33	795.04	2.52E+01	23.07			2.52E+01	2.31E+01
	34	805.39	2.24E+01	19.80			2.24E+01	1.98E+01
	35	860.36	2.58E+01	19.99			2.58E+01	2.00E+01
M	36	870.33	2.22E+01	13.67			2.22E+01	1.37E+01
m	37	877.93	1.03E+01	15.62			1.03E+01	1.56E+01
	38	902.49	1.75E+01	21.42			1.75E+01	2.14E+01
	39	911.15	9.47E+01	26.31	4.29E+00	2.56E+00	9.04E+01	2.64E+01
	40	968.09	6.86E+01	29.48			6.86E+01	2.95E+01
	41	979.50	1.59E+01	15.95			1.59E+01	1.60E+01

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	42	1084.05	1.79E+01	13.89			1.79E+01	1.39E+01
	43	1093.52	2.54E+01	16.64			2.54E+01	1.66E+01
	44	1120.26	5.03E+01	26.83			5.03E+01	2.68E+01
	45	1238.56	4.40E+01	31.38			4.40E+01	3.14E+01
M	46	1304.39	1.31E+01	15.75			1.31E+01	1.57E+01
m	47	1313.18	1.21E+01	15.62			1.21E+01	1.56E+01
	48	1377.49	1.38E+01	13.92			1.38E+01	1.39E+01
	49	1447.08	1.50E+01	14.14			1.50E+01	1.41E+01
	50	1460.90	4.80E+02	45.23	5.85E+00	2.19E+00	4.74E+02	4.53E+01
	51	1506.83	9.29E+00	9.11			9.29E+00	9.11E+00
	52	1630.91	9.36E+00	7.50			9.36E+00	7.50E+00
	53	1730.22	1.40E+01	8.94			1.40E+01	8.94E+00
	54	1764.02	4.50E+01	15.81			4.50E+01	1.58E+01
	55	1831.71	7.00E+00	5.29			7.00E+00	5.29E+00
	56	1846.34	1.90E+01	8.72			1.90E+01	8.72E+00
	57	2203.88	1.58E+01	9.38	1.36E-01	1.12E+00	1.56E+01	9.45E+00
	58	2447.52	8.00E+00	5.66			8.00E+00	5.66E+00
	59	2614.06	5.08E+01	15.56	5.15E+00	1.50E+00	4.56E+01	1.56E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.999	1460.81	*	10.67	1.54E+01	1.99E+00
GA-67	0.533	93.31	*	35.70	1.93E+02	8.41E+02
		208.95		2.24		
		300.22	*	16.00	2.07E+02	9.15E+02
CD-109	0.991	88.03	*	3.72	2.10E+00	8.97E-01
SB-125	0.534	176.33		6.89		
		427.89	*	29.33	1.43E-01	1.37E-01
		463.38	*	10.35	5.29E-01	5.02E-01
		600.56	*	17.80	2.26E-01	2.68E-01
		635.90		11.32		
SN-126	0.992	87.57	*	37.00	2.01E-01	8.51E-02
CS-137	0.995	661.65	*	85.12	9.28E-02	5.23E-02
LU-173	0.612	100.72		5.24		

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
LU-173	0.612	272.11	*	21.20	7.61E-01	4.53E-01
TL-208	0.969	583.14	*	30.22	8.54E-01	1.95E-01
		860.37	*	4.48	1.33E+00	1.04E+00
		2614.66	*	35.85	5.79E-01	2.05E-01
PB-210	0.988	46.50	*	4.25	1.88E+00	1.71E+00
PB-212	0.993	238.63	*	44.60	1.03E+00	1.41E-01
		300.09	*	3.41	1.08E+00	1.03E+00
BI-214	0.989	609.31	*	46.30	9.53E-01	1.92E-01
		1120.29	*	15.10	9.48E-01	5.12E-01
		1764.49	*	15.80	1.12E+00	4.03E-01
		2204.22	*	4.98	1.37E+00	8.37E-01
PB-214	0.997	295.21	*	19.19	9.23E-01	2.10E-01
		351.92	*	37.19	1.08E+00	2.04E-01
RA-224	0.882	240.98	*	3.95	1.97E+00	9.81E-01
RA-225	0.975	40.00	*	31.00	9.15E-01	1.08E+00
RA-226	1.000	186.21	*	3.28	2.36E+00	4.58E+00
AC-228	0.568	338.32	*	11.40	8.18E-01	4.88E-01
		911.07	*	27.70	7.88E-01	2.40E-01
		969.11		16.60		
TH-234	0.982	63.29	*	3.80	1.81E+00	1.60E+00
AM-243	0.989	74.67	*	66.00	2.77E-01	7.14E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 7:11:42AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	5	77.46	9.93663E-02	10.75		
	9	210.00	1.41095E-02	59.17	Tol.	CM-243
	12	258.25	1.05712E-02	45.82		
	18	398.50	6.78161E-03	55.18	Sum	
	21	510.81	2.33483E-02	27.01	Sum	
M	22	576.80	5.23170E-03	66.25	Sum	
m	27	665.24	4.66435E-03	67.95	Sum	
m	28	672.88	6.58279E-03	45.68	Sum	

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	29	679.48	4.43675E-03	64.21		
	30	685.95	6.92901E-03	42.05		
	31	725.99	1.29580E-02	24.88		
	32	768.77	1.33215E-02	32.43	Sum	
	33	795.04	6.99454E-03	45.80	Sum	
	34	805.39	6.23299E-03	44.12		
M	36	870.33	6.15450E-03	30.86		
m	37	877.93	2.86016E-03	75.85	Sum	
	38	902.49	4.85809E-03	61.25	Sum	
	40	968.09	1.90465E-02	21.50		
	41	979.50	4.42761E-03	50.04		
	42	1084.05	4.97024E-03	38.82		
	43	1093.52	7.06140E-03	32.74	Tol.	LU-172
	45	1238.56	1.22222E-02	35.66	Tol.	CO-56
M	46	1304.39	3.64314E-03	60.04		
m	47	1313.18	3.34801E-03	64.80		
	48	1377.49	3.84259E-03	50.31		
	49	1447.08	4.16667E-03	47.14		
	51	1506.83	2.57936E-03	49.06	Sum	
	52	1630.91	2.60101E-03	40.05		
	53	1730.22	3.89757E-03	31.87	Sum	
	55	1831.71	1.94444E-03	37.80		
	56	1846.34	5.27778E-03	22.94		
	58	2447.52	2.22222E-03	35.36		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.54E+01	1.99E+00
GA-67	0.53	93.31	*	35.70	1.93E+02	8.41E+02
		208.95		2.24		
		300.22	*	16.00	2.07E+02	9.15E+02

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CD-109	0.99	88.03	*	3.72	2.10E+00	8.97E-01
SB-125	0.53	176.33		6.89		
		427.89	*	29.33	1.43E-01	1.37E-01
		463.38	*	10.35	5.29E-01	5.02E-01
		600.56	*	17.80	2.26E-01	2.68E-01
		635.90		11.32		
SN-126	0.99	87.57	*	37.00	2.01E-01	8.51E-02
CS-137	0.99	661.65	*	85.12	9.28E-02	5.23E-02
LU-173	0.61	100.72		5.24		
		272.11	*	21.20	7.61E-01	4.53E-01
TL-208	0.96	583.14	*	30.22	8.54E-01	1.95E-01
		860.37	*	4.48	1.33E+00	1.04E+00
		2614.66	*	35.85	5.79E-01	2.05E-01
PB-210	0.98	46.50	*	4.25	1.88E+00	1.71E+00
PB-212	0.99	238.63	*	44.60	1.03E+00	1.41E-01
		300.09	*	3.41	1.08E+00	1.03E+00
BI-214	0.98	609.31	*	46.30	9.53E-01	1.92E-01
		1120.29	*	15.10	9.48E-01	5.12E-01
		1764.49	*	15.80	1.12E+00	4.03E-01
		2204.22	*	4.98	1.37E+00	8.37E-01
PB-214	0.99	295.21	*	19.19	9.23E-01	2.10E-01
		351.92	*	37.19	1.08E+00	2.04E-01
RA-224	0.88	240.98	*	3.95	1.97E+00	9.81E-01
RA-225	0.97	40.00	*	31.00	9.15E-01	1.08E+00
RA-226	1.00	186.21	*	3.28	2.36E+00	4.58E+00
AC-228	0.56	338.32	*	11.40	8.18E-01	4.88E-01
		911.07	*	27.70	7.88E-01	2.40E-01
		969.11		16.60		
TH-234	0.98	63.29	*	3.80	1.81E+00	1.60E+00
AM-243	0.98	74.67	*	66.00	2.77E-01	7.14E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.999	1.54E+01	1.99E+00	
	GA-67	0.533	1.53E+02	6.44E+02	
?	CD-109	0.991	2.10E+00	8.97E-01	
	SB-125	0.534	1.81E-01	1.18E-01	
?	SN-126	0.992	2.01E-01	8.51E-02	
	CS-137	0.995	9.28E-02	5.23E-02	
	LU-173	0.612	7.61E-01	4.53E-01	
	TL-208	0.969	7.34E-01	1.40E-01	
	PB-210	0.988	1.88E+00	1.71E+00	
	PB-212	0.993	1.02E+00	1.40E-01	
	BI-214	0.989	9.95E-01	1.61E-01	
	PB-214	0.997	1.00E+00	1.46E-01	
	RA-224	0.882	1.97E+00	9.81E-01	
	RA-225	0.975	9.15E-01	1.08E+00	
	RA-226	1.000	2.36E+00	4.58E+00	
	AC-228	0.568	7.94E-01	2.16E-01	
	TH-234	0.982	1.81E+00	1.60E+00	
	AM-243	0.989	2.77E-01	7.14E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 7:11:42AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	5	77.46	9.93663E-02	10.75		
	9	210.00	1.41095E-02	59.17	Tol.	CM-243
	12	258.25	1.05712E-02	45.82		
	18	398.50	6.78161E-03	55.18	Sum	
	21	510.81	2.33483E-02	27.01	Sum	
M	22	576.80	5.23170E-03	66.25	Sum	
m	27	665.24	4.66435E-03	67.95	Sum	
m	28	672.88	6.58279E-03	45.68	Sum	
m	29	679.48	4.43675E-03	64.21		
	30	685.95	6.92901E-03	42.05		
	31	725.99	1.29580E-02	24.88		
	32	768.77	1.33215E-02	32.43	Sum	
	33	795.04	6.99454E-03	45.80	Sum	
	34	805.39	6.23299E-03	44.12		
M	36	870.33	6.15450E-03	30.86		
m	37	877.93	2.86016E-03	75.85	Sum	
	38	902.49	4.85809E-03	61.25	Sum	
	40	968.09	1.90465E-02	21.50		
	41	979.50	4.42761E-03	50.04		
	42	1084.05	4.97024E-03	38.82		
	43	1093.52	7.06140E-03	32.74	Tol.	LU-172
	45	1238.56	1.22222E-02	35.66	Tol.	CO-56
M	46	1304.39	3.64314E-03	60.04		
m	47	1313.18	3.34801E-03	64.80		
	48	1377.49	3.84259E-03	50.31		
	49	1447.08	4.16667E-03	47.14		
	51	1506.83	2.57936E-03	49.06	Sum	
	52	1630.91	2.60101E-03	40.05		
	53	1730.22	3.89757E-03	31.87	Sum	
	55	1831.71	1.94444E-03	37.80		
	56	1846.34	5.27778E-03	22.94		
	58	2447.52	2.22222E-03	35.36		

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	2.28E-01	9.46E-01	9.46E-01
+	NA-22	1274.54		99.94	7.15E-03	8.66E-02	8.66E-02
+	NA-24	1368.53		99.99	3.95E+12	1.27E+14	1.67E+14
		2754.09		99.86	1.57E+13		1.27E+14
+	AL-26	1808.65		99.76	-2.70E-02	3.71E-02	3.71E-02
+	K-40	1460.81	*	10.67	1.54E+01	7.50E-01	7.50E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.58E-02	6.65E-02	6.65E-02
		78.34		96.00	1.29E-01		8.26E-02
+	SC-46	889.25		99.98	-4.69E-02	8.16E-02	8.16E-02
		1120.51		99.99	1.96E-01		1.71E-01
+	V-48	983.52		99.98	-2.78E-02	3.03E-01	3.03E-01
		1312.10		97.50	6.24E-02		3.55E-01
+	CR-51	320.08		9.83	-7.85E-02	1.10E+00	1.10E+00
+	MN-54	834.83		99.97	1.36E-02	8.03E-02	8.03E-02
+	CO-56	846.75		99.96	1.04E-02	9.70E-02	9.70E-02
		1037.75		14.03	-1.83E-01		7.13E-01
		1238.25		67.00	1.09E-01		2.28E-01
		1771.40		15.51	-4.29E-01		4.04E-01
		2598.48		16.90	9.81E-02		4.28E-01
+	CO-57	122.06		85.51	-1.57E-02	5.64E-02	5.64E-02
		136.48		10.60	4.08E-02		5.09E-01
+	CO-58	810.76		99.40	-1.09E-02	8.54E-02	8.54E-02
+	FE-59	1099.22		56.50	-3.51E-02	2.19E-01	2.19E-01
		1291.56		43.20	3.86E-02		2.43E-01
+	CO-60	1173.22		100.00	2.93E-02	7.38E-02	9.37E-02
		1332.49		100.00	-3.84E-03		7.38E-02
+	ZN-65	1115.52		50.75	7.13E-02	2.32E-01	2.32E-01
+	GA-67	93.31	*	35.70	1.93E+02	3.39E+02	3.39E+02
		208.95		2.24	1.65E+03		2.22E+03
		300.22	*	16.00	2.07E+02		7.63E+02
+	SE-75	121.11		16.70	-2.16E-02	9.70E-02	3.18E-01

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	-8.67E-02	9.70E-02	9.70E-02
		264.65		59.80	4.66E-02		9.70E-02
		279.53		25.20	4.95E-02		2.54E-01
		400.65		11.40	-6.64E-02		5.75E-01
+	RB-82	776.52		13.00	1.01E-01	1.31E+00	1.31E+00
+	RB-83	520.41		46.00	5.01E-02	1.81E-01	1.81E-01
		529.64		30.30	2.04E-03		2.73E-01
		552.65		16.40	-2.63E-01		4.58E-01
+	KR-85	513.99		0.43	2.25E+01	2.19E+01	2.19E+01
+	SR-85	513.99		99.27	1.38E-01	1.34E-01	1.34E-01
+	Y-88	898.02		93.40	1.42E-02	5.36E-02	8.60E-02
		1836.01		99.38	3.73E-03		5.36E-02
+	NB-93M	16.57		9.43	-1.20E+02	7.02E+01	7.02E+01
+	NB-94	702.63		100.00	-2.17E-02	6.67E-02	7.06E-02
		871.10		100.00	-7.67E-03		6.67E-02
+	NB-95	765.79		99.81	8.83E-02	1.50E-01	1.50E-01
+	NB-95M	235.69		25.00	-6.87E+02	1.12E+02	1.12E+02
+	ZR-95	724.18		43.70	-2.28E-02	1.82E-01	2.38E-01
		756.72		55.30	6.88E-02		1.82E-01
+	MO-99	181.06		6.20	7.29E+02	1.77E+03	2.63E+03
		739.58		12.80	-1.04E+02		1.77E+03
		778.00		4.50	3.41E+03		5.15E+03
+	RU-103	497.08		89.00	9.48E-03	1.17E-01	1.17E-01
+	RU-106	621.84		9.80	-4.69E-01	6.56E-01	6.56E-01
+	AG-108M	433.93		89.90	1.07E-02	6.13E-02	6.13E-02
		614.37		90.40	2.14E-02		8.04E-02
		722.95		90.50	-9.02E-03		7.45E-02
+	CD-109	88.03	*	3.72	2.10E+00	3.60E+00	3.60E+00
+	AG-110M	657.75		93.14	1.11E-02	8.80E-02	8.80E-02
		677.61		10.53	8.50E-02		7.05E-01
		706.67		16.46	-3.41E-01		4.66E-01
		763.93		21.98	-1.51E-02		3.31E-01
		884.67		71.63	1.20E-02		9.51E-02
		1384.27		23.94	-3.19E-02		2.97E-01
+	CD-113M	263.70		0.02	1.47E+02	2.15E+02	2.15E+02
+	SN-113	255.12		1.93	-4.42E-01	1.06E-01	3.04E+00
		391.69		64.90	2.68E-02		1.06E-01
+	TE123M	159.00		84.10	6.54E-03	7.26E-02	7.26E-02
+	SB-124	602.71		97.87	-3.84E-02	1.05E-01	1.05E-01
		645.85		7.26	-7.68E-01		1.20E+00
		722.78		11.10	-1.06E-01		8.78E-01
		1691.02		49.00	-4.40E-02		1.48E-01
+	I-125	35.49		6.49	-1.13E+00	3.16E+00	3.16E+00
+	SB-125	176.33		6.89	-4.52E-01	2.20E-01	6.90E-01
		427.89	*	29.33	1.43E-01		2.20E-01
		463.38	*	10.35	5.29E-01		8.09E-01
		600.56	*	17.80	2.26E-01		4.38E-01
		635.90		11.32	-1.82E-01		4.96E-01

Analysis Report for 1507182-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	3.74E-02	4.07E-01	4.36E-01
		666.33		99.60	-4.33E-01		4.07E-01
		695.00		99.60	1.14E-01		4.31E-01
		720.50		53.80	-1.43E-01		7.24E-01
+	SN-126	87.57	*	37.00	2.01E-01	3.45E-01	3.45E-01
+	SB-127	473.00		25.00	-3.11E+01	5.99E+01	7.77E+01
		685.20		35.70	8.57E+00		5.99E+01
		783.80		14.70	-2.99E+01		1.45E+02
+	I-129	29.78		57.00	-1.23E-01	5.03E-01	5.03E-01
		33.60		13.20	4.06E-01		1.33E+00
		39.58		7.52	1.43E+00		1.50E+00
+	I-131	284.30		6.05	3.16E-01	1.01E+00	1.26E+01
		364.48		81.20	3.64E-01		1.01E+00
		636.97		7.26	-4.94E+00		1.23E+01
		722.89		1.80	-7.15E+00		5.91E+01
+	TE-132	49.72		13.10	-1.02E+03	5.35E+01	4.64E+02
		228.16		88.00	1.81E+01		5.35E+01
+	BA-133	81.00		33.00	-8.28E-01	9.91E-02	1.72E-01
		302.84		17.80	5.43E-02		3.12E-01
		356.01		60.00	3.72E-02		9.91E-02
+	I-133	529.87		86.30	7.21E+07	9.64E+09	9.64E+09
+	XE-133	81.00		38.00	-4.91E+01	1.02E+01	1.02E+01
+	CS-134	563.23		8.38	1.83E-01	7.78E-02	8.17E-01
		569.32		15.43	1.82E-01		4.54E-01
		604.70		97.60	-7.23E-01		7.78E-02
		795.84		85.40	3.52E-02		9.89E-02
		801.93		8.73	4.13E-02		8.90E-01
+	CS-135	268.24		16.00	1.30E-01	3.18E-01	3.18E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	-1.39E+00	3.38E-01	3.55E+00
		163.89		4.61	7.03E-01		5.74E+00
		176.55		13.56	-1.21E+00		1.85E+00
		273.65		12.66	-1.45E+00		2.24E+00
		340.57		48.50	6.23E-01		7.54E-01
		818.50		99.70	6.96E-02		3.38E-01
		1048.07		79.60	1.18E-02		5.24E-01
		1235.34		19.70	8.58E-03		2.97E+00
+	CS-137	661.65	*	85.12	9.28E-02	2.09E-01	2.09E-01
+	LA-138	788.74		34.00	7.60E-02	8.66E-02	2.08E-01
		1435.80		66.00	-3.47E-03		8.66E-02
+	CE-139	165.85		80.35	2.50E-02	7.13E-02	7.13E-02
+	BA-140	162.64		6.70	1.33E+00	1.36E+00	4.20E+00
		304.84		4.50	-2.22E+00		6.43E+00
		423.70		3.20	-1.88E+00		9.24E+00
		437.55		2.00	3.76E+00		1.78E+01
		537.32		25.00	-7.27E-01		1.36E+00
+	LA-140	328.77		20.50	1.19E-01	3.65E-01	1.49E+00

00340

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03	45.50	2.12E-02	3.65E-01	7.57E-01
		815.85	23.50	6.12E-01		1.69E+00
		1596.49	95.49	-1.63E-01		3.65E-01
+	CE-141	145.44	48.40	-3.07E-02	1.98E-01	1.98E-01
+	CE-143	57.36	11.80	-1.96E+06	1.83E+06	5.21E+06
		293.26	42.00	3.48E+06		1.83E+06
		664.55	5.20	3.91E+06		1.54E+07
+	CE-144	133.54	10.80	-1.67E-01	4.77E-01	4.77E-01
+	PM-144	476.78	42.00	4.66E-02	7.13E-02	1.63E-01
		618.01	98.60	2.40E-02		7.13E-02
		696.49	99.49	-8.34E-03		7.56E-02
+	PM-145	36.85	21.70	-1.90E-01	3.21E-01	5.78E-01
		37.36	39.70	-3.13E-02		3.21E-01
		42.30	15.10	-1.11E+00		6.13E-01
		72.40	2.31	-2.08E+00		3.15E+00
+	PM-146	453.90	39.94	4.59E-02	1.59E-01	1.59E-01
		735.90	14.01	2.28E-01		5.09E-01
		747.13	13.10	-1.26E-01		5.40E-01
+	ND-147	91.11	28.90	-1.79E+00	1.82E+00	1.82E+00
		531.02	13.10	3.31E-01		3.69E+00
+	PM-149	285.90	3.10	9.48E+03	3.63E+04	3.63E+04
+	EU-152	121.78	20.50	-6.06E-02	2.18E-01	2.18E-01
		244.69	5.40	-7.95E-01		9.84E-01
		344.27	19.13	-5.13E-02		2.48E-01
		778.89	9.20	6.92E-01		8.13E-01
		964.01	10.40	-1.59E-01		8.19E-01
		1085.78	7.22	3.84E-01		9.48E-01
		1112.02	9.60	-6.86E-02		9.29E-01
		1407.95	14.94	3.87E-01		5.80E-01
+	GD-153	97.43	31.30	5.14E-02	1.78E-01	1.78E-01
		103.18	22.20	-1.11E-02		2.28E-01
+	EU-154	123.07	40.50	6.81E-02	1.12E-01	1.12E-01
		723.30	19.70	-4.17E-02		3.45E-01
		873.19	11.50	3.25E-02		6.10E-01
		996.32	10.30	-6.09E-02		8.15E-01
		1004.76	17.90	-1.02E-01		4.38E-01
		1274.45	35.50	1.98E-02		2.40E-01
+	EU-155	86.50	30.90	-6.10E-03	2.04E-01	2.04E-01
		105.30	20.70	1.79E-02		2.24E-01
+	EU-156	811.77	10.40	-9.08E-01	2.72E+00	2.72E+00
		1153.47	7.20	1.48E+00		5.13E+00
		1230.71	8.90	1.22E-01		4.54E+00
+	HO-166M	184.41	72.60	1.27E-01	9.15E-02	9.15E-02
		280.45	29.60	-1.88E-02		1.66E-01
		410.94	11.10	-5.35E-02		5.77E-01
		711.69	54.10	-8.58E-02		1.27E-01
+	TM-171	66.72	0.14	-1.03E+01	4.63E+01	4.63E+01
+	HF-172	81.75	4.52	-1.24E+00	4.00E-01	1.27E+00
		125.81	11.30	-2.32E-01		4.00E-01

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	1.91E+00	3.60E+00	6.81E+00
		810.06		16.63	-2.90E-01		1.12E+01
		912.12		15.25	4.46E+01		2.32E+01
		1093.66		62.50	2.51E+00		3.60E+00
+	LU-173	100.72		5.24	3.31E-01	7.24E-01	9.57E-01
		272.11	*	21.20	7.61E-01		7.24E-01
+	HF-175	343.40		84.00	-1.59E-02	8.28E-02	8.28E-02
+	LU-176	88.34		13.30	4.78E-01	5.32E-02	4.87E-01
		201.83		86.00	-1.89E-02		6.06E-02
		306.78		94.00	1.36E-02		5.32E-02
+	TA-182	67.75		41.20	4.40E-02	1.85E-01	1.85E-01
		1121.30		34.90	4.79E-01		4.54E-01
		1189.05		16.23	3.41E-02		6.65E-01
		1221.41		26.98	1.65E-01		4.74E-01
		1231.02		11.44	2.68E-02		9.95E-01
+	IR-192	308.46		29.68	-4.82E-03	1.85E-01	2.14E-01
		468.07		48.10	4.03E-02		1.85E-01
+	HG-203	279.19		77.30	4.78E-02	1.14E-01	1.14E-01
+	BI-207	569.67		97.72	1.03E-02	6.93E-02	6.93E-02
		1063.62		74.90	-3.84E-02		9.99E-02
+	TL-208	583.14	*	30.22	8.54E-01	1.99E-01	3.75E-01
		860.37	*	4.48	1.33E+00		1.60E+00
		2614.66	*	35.85	5.79E-01		1.99E-01
+	BI-210M	262.00		45.00	-3.35E-02	1.07E-01	1.07E-01
		300.00		23.00	-3.30E-01		2.44E-01
+	PB-210	46.50	*	4.25	1.88E+00	2.76E+00	2.76E+00
+	PB-211	404.84		2.90	7.69E-01	2.00E+00	2.00E+00
		831.96		2.90	-2.17E+00		2.25E+00
+	BI-212	727.17		11.80	4.49E-01	6.73E-01	6.73E-01
		1620.62		2.75	5.65E-02		2.55E+00
+	PB-212	238.63	*	44.60	1.03E+00	2.27E-01	2.27E-01
		300.09	*	3.41	1.08E+00		3.98E+00
+	BI-214	609.31	*	46.30	9.53E-01	2.10E-01	2.10E-01
		1120.29	*	15.10	9.48E-01		7.57E-01
		1764.49	*	15.80	1.12E+00		4.09E-01
		2204.22	*	4.98	1.37E+00		9.84E-01
+	PB-214	295.21	*	19.19	9.23E-01	2.43E-01	6.98E-01
		351.92	*	37.19	1.08E+00		2.43E-01
+	RN-219	401.80		6.50	3.98E-02	8.18E-01	8.18E-01
+	RA-223	323.87		3.88	-6.77E-01	1.22E+00	1.22E+00
+	RA-224	240.98	*	3.95	1.97E+00	2.54E+00	2.54E+00
+	RA-225	40.00	*	31.00	9.15E-01	1.75E+00	1.75E+00
+	RA-226	186.21	*	3.28	2.36E+00	2.42E+00	2.42E+00
+	TH-227	50.10		8.40	-1.74E+00	5.25E-01	7.91E-01
		236.00		11.50	-3.21E+00		5.25E-01
		256.20		6.30	-1.35E-01		7.79E-01
+	AC-228	338.32	*	11.40	8.18E-01	2.87E-01	7.65E-01
		911.07	*	27.70	7.88E-01		2.87E-01

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Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11		16.60	5.53E-01	2.87E-01	6.93E-01
+	TH-230	48.44		16.90	6.71E-02	4.69E-01	4.69E-01
		62.85		4.60	1.87E+00		1.63E+00
		67.67		0.37	4.03E+00		1.70E+01
+	PA-231	283.67		1.60	3.11E-01	2.40E+00	2.92E+00
		302.67		2.30	4.17E-01		2.40E+00
+	TH-231	25.64		14.70	-6.26E+00	9.11E-01	5.11E+00
		84.21		6.40	-1.57E+00		9.11E-01
+	PA-233	311.98		38.60	-5.02E-02	2.64E-01	2.64E-01
+	PA-234	131.20		20.40	1.07E-01	2.39E-01	2.39E-01
		733.99		8.80	-1.48E-01		7.51E-01
		946.00		12.00	1.66E-01		6.35E-01
+	PA-234M	1001.03		0.92	-5.12E-01	8.99E+00	8.99E+00
+	TH-234	63.29	*	3.80	1.81E+00	2.60E+00	2.60E+00
+	U-235	143.76		10.50	2.54E-02	4.63E-01	4.63E-01
		163.35		4.70	1.28E-01		1.04E+00
		205.31		4.70	2.71E-01		1.13E+00
+	NP-237	86.50		12.60	-1.48E-02	4.95E-01	4.95E-01
+	NP-239	106.10		22.70	1.99E+02	2.49E+03	2.49E+03
		228.18		10.70	2.03E+03		5.99E+03
		277.60		14.10	4.03E+03		5.00E+03
+	AM-241	59.54		35.90	-2.01E-01	1.76E-01	1.76E-01
+	AM-243	74.67	*	66.00	2.77E-01	1.44E-01	1.44E-01
+	CM-243	209.75		3.29	3.74E-01	4.10E-01	1.66E+00
		228.14		10.60	1.67E-01		4.93E-01
		277.60		14.00	3.30E-01		4.10E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	9.46E-01	9.46E-01	2.28E-01	4.44E-01
	NA-22	1274.54		99.94	8.66E-02	8.66E-02	7.15E-03	3.89E-02
	NA-24	1368.53		99.99	1.67E+14	1.27E+14	3.95E+12	7.18E+13
		2754.09		99.86	1.27E+14		1.57E+13	4.75E+13
	AL-26	1808.65		99.76	3.71E-02	3.71E-02	-2.70E-02	1.31E-02
+	K-40	1460.81	*	10.67	7.50E-01	7.50E-01	1.54E+01	3.31E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.65E-02	6.65E-02	1.58E-02	3.23E-02
		78.34		96.00	8.26E-02		1.29E-01	4.04E-02
	SC-46	889.25		99.98	8.16E-02	8.16E-02	-4.69E-02	3.66E-02
		1120.51		99.99	1.71E-01		1.96E-01	8.05E-02
	V-48	983.52		99.98	3.03E-01	3.03E-01	-2.78E-02	1.38E-01
		1312.10		97.50	3.55E-01		6.24E-02	1.60E-01
	CR-51	320.08		9.83	1.10E+00	1.10E+00	-7.85E-02	5.19E-01
	MN-54	834.83		99.97	8.03E-02	8.03E-02	1.36E-02	3.69E-02
	CO-56	846.75		99.96	9.70E-02	9.70E-02	1.04E-02	4.44E-02
		1037.75		14.03	7.13E-01		-1.83E-01	3.22E-01
		1238.25		67.00	2.28E-01		1.09E-01	1.06E-01
		1771.40		15.51	4.04E-01		-4.29E-01	1.57E-01
		2598.48		16.90	4.28E-01		9.81E-02	1.66E-01
	CO-57	122.06		85.51	5.64E-02	5.64E-02	-1.57E-02	2.71E-02
		136.48		10.60	5.09E-01		4.08E-02	2.45E-01
	CO-58	810.76		99.40	8.54E-02	8.54E-02	-1.09E-02	3.86E-02
	FE-59	1099.22		56.50	2.19E-01	2.19E-01	-3.51E-02	9.86E-02
		1291.56		43.20	2.43E-01		3.86E-02	1.05E-01
	CO-60	1173.22		100.00	9.37E-02	7.38E-02	2.93E-02	4.28E-02
		1332.49		100.00	7.38E-02		-3.84E-03	3.24E-02
	ZN-65	1115.52		50.75	2.32E-01	2.32E-01	7.13E-02	1.07E-01
+	GA-67	93.31	*	35.70	3.39E+02	3.39E+02	1.93E+02	1.68E+02
		208.95		2.24	2.22E+03		1.65E+03	1.07E+03
		300.22	*	16.00	7.63E+02		2.07E+02	3.74E+02
	SE-75	121.11		16.70	3.18E-01	9.70E-02	-2.16E-02	1.53E-01
		136.00		59.20	9.70E-02		-8.67E-02	4.67E-02
		264.65		59.80	9.70E-02		4.66E-02	4.59E-02
		279.53		25.20	2.54E-01		4.95E-02	1.20E-01
		400.65		11.40	5.75E-01		-6.64E-02	2.69E-01
	RB-82	776.52		13.00	1.31E+00	1.31E+00	1.01E-01	6.01E-01
	RB-83	520.41		46.00	1.81E-01	1.81E-01	5.01E-02	8.46E-02
		529.64		30.30	2.73E-01		2.04E-03	1.27E-01
		552.65		16.40	4.58E-01		-2.63E-01	2.11E-01
	KR-85	513.99		0.43	2.19E+01	2.19E+01	2.25E+01	1.05E+01
	SR-85	513.99		99.27	1.34E-01	1.34E-01	1.38E-01	6.40E-02
	Y-88	898.02		93.40	8.60E-02	5.36E-02	1.42E-02	3.87E-02
		1836.01		99.38	5.36E-02		3.73E-03	2.01E-02
	NB-93M	16.57		9.43	7.02E+01	7.02E+01	-1.20E+02	3.20E+01
	NB-94	702.63		100.00	7.06E-02	6.67E-02	-2.17E-02	3.26E-02
		871.10		100.00	6.67E-02		-7.67E-03	3.02E-02
	NB-95	765.79		99.81	1.50E-01	1.50E-01	8.83E-02	6.97E-02
	NB-95M	235.69		25.00	1.12E+02	1.12E+02	-6.87E+02	5.39E+01
	ZR-95	724.18		43.70	2.38E-01	1.82E-01	-2.28E-02	1.10E-01
		756.72		55.30	1.82E-01		6.88E-02	8.40E-02

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	181.06		6.20	2.63E+03	1.77E+03	7.29E+02	1.26E+03
		739.58		12.80	1.77E+03		-1.04E+02	8.18E+02
		778.00		4.50	5.15E+03		3.41E+03	2.37E+03
	RU-103	497.08		89.00	1.17E-01	1.17E-01	9.48E-03	5.44E-02
	RU-106	621.84		9.80	6.56E-01	6.56E-01	-4.69E-01	3.02E-01
	AG-108M	433.93		89.90	6.13E-02	6.13E-02	1.07E-02	2.86E-02
		614.37		90.40	8.04E-02		2.14E-02	3.75E-02
		722.95		90.50	7.45E-02		-9.02E-03	3.43E-02
+	CD-109	88.03	*	3.72	3.60E+00	3.60E+00	2.10E+00	1.78E+00
	AG-110M	657.75		93.14	8.80E-02	8.80E-02	1.11E-02	4.10E-02
		677.61		10.53	7.05E-01		8.50E-02	3.26E-01
		706.67		16.46	4.66E-01		-3.41E-01	2.15E-01
		763.93		21.98	3.31E-01		-1.51E-02	1.52E-01
		884.67		71.63	9.51E-02		1.20E-02	4.27E-02
		1384.27		23.94	2.97E-01		-3.19E-02	1.28E-01
	CD-113M	263.70		0.02	2.15E+02	2.15E+02	1.47E+02	1.02E+02
	SN-113	255.12		1.93	3.04E+00	1.06E-01	-4.42E-01	1.44E+00
		391.69		64.90	1.06E-01		2.68E-02	5.00E-02
	TE123M	159.00		84.10	7.26E-02	7.26E-02	6.54E-03	3.49E-02
	SB-124	602.71		97.87	1.05E-01	1.05E-01	-3.84E-02	4.90E-02
		645.85		7.26	1.20E+00		-7.68E-01	5.52E-01
		722.78		11.10	8.78E-01		-1.06E-01	4.04E-01
		1691.02		49.00	1.48E-01		-4.40E-02	5.87E-02
	I-125	35.49		6.49	3.16E+00	3.16E+00	-1.13E+00	1.52E+00
+	SB-125	176.33		6.89	6.90E-01	2.20E-01	-4.52E-01	3.30E-01
		427.89	*	29.33	2.20E-01		1.43E-01	1.04E-01
		463.38	*	10.35	8.09E-01		5.29E-01	3.85E-01
		600.56	*	17.80	4.38E-01		2.26E-01	2.05E-01
		635.90		11.32	4.96E-01		-1.82E-01	2.26E-01
	SB-126	414.70		83.30	4.36E-01	4.07E-01	3.74E-02	2.05E-01
		666.33		99.60	4.07E-01		-4.33E-01	1.88E-01
		695.00		99.60	4.31E-01		1.14E-01	2.00E-01
		720.50		53.80	7.24E-01		-1.43E-01	3.32E-01
+	SN-126	87.57	*	37.00	3.45E-01	3.45E-01	2.01E-01	1.70E-01
	SB-127	473.00		25.00	7.77E+01	5.99E+01	-3.11E+01	3.64E+01
		685.20		35.70	5.99E+01		8.57E+00	2.76E+01
		783.80		14.70	1.45E+02		-2.99E+01	6.64E+01
	I-129	29.78		57.00	5.03E-01	5.03E-01	-1.23E-01	2.43E-01
		33.60		13.20	1.33E+00		4.06E-01	6.38E-01
		39.58		7.52	1.50E+00		1.43E+00	7.24E-01
	I-131	284.30		6.05	1.26E+01	1.01E+00	3.16E-01	5.96E+00
		364.48		81.20	1.01E+00		3.64E-01	4.72E-01
		636.97		7.26	1.23E+01		-4.94E+00	5.59E+00
		722.89		1.80	5.91E+01		-7.15E+00	2.72E+01
	TE-132	49.72		13.10	4.64E+02	5.35E+01	-1.02E+03	2.23E+02
		228.16		88.00	5.35E+01		1.81E+01	2.56E+01
	BA-133	81.00		33.00	1.72E-01	9.91E-02	-8.28E-01	8.34E-02
		302.84		17.80	3.12E-01		5.43E-02	1.48E-01
		356.01		60.00	9.91E-02		3.72E-02	4.69E-02
	I-133	529.87		86.30	9.64E+09	9.64E+09	7.21E+07	4.50E+09
	XE-133	81.00		38.00	1.02E+01	1.02E+01	-4.91E+01	4.95E+00
	CS-134	563.23		8.38	8.17E-01	7.78E-02	1.83E-01	3.81E-01
		569.32		15.43	4.54E-01		1.82E-01	2.12E-01

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-134	604.70		97.60	7.78E-02	7.78E-02	-7.23E-01	3.64E-02
		795.84		85.40	9.89E-02		3.52E-02	4.59E-02
		801.93		8.73	8.90E-01		4.13E-02	4.10E-01
	CS-135	268.24		16.00	3.18E-01	3.18E-01	1.30E-01	1.51E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.55E+00	3.38E-01	-1.39E+00	1.71E+00
		163.89		4.61	5.74E+00		7.03E-01	2.76E+00
		176.55		13.56	1.85E+00		-1.21E+00	8.85E-01
		273.65		12.66	2.24E+00		-1.45E+00	1.06E+00
		340.57		48.50	7.54E-01		6.23E-01	3.60E-01
		818.50		99.70	3.38E-01		6.96E-02	1.53E-01
		1048.07		79.60	5.24E-01		1.18E-02	2.37E-01
		1235.34		19.70	2.97E+00		8.58E-03	1.37E+00
+	CS-137	661.65	*	85.12	2.09E-01	2.09E-01	9.28E-02	1.02E-01
	LA-138	788.74		34.00	2.08E-01	8.66E-02	7.60E-02	9.54E-02
		1435.80		66.00	8.66E-02		-3.47E-03	3.63E-02
	CE-139	165.85		80.35	7.13E-02	7.13E-02	2.50E-02	3.42E-02
	BA-140	162.64		6.70	4.20E+00	1.36E+00	1.33E+00	2.02E+00
		304.84		4.50	6.43E+00		-2.22E+00	3.04E+00
		423.70		3.20	9.24E+00		-1.88E+00	4.30E+00
		437.55		2.00	1.78E+01		3.76E+00	8.36E+00
		537.32		25.00	1.36E+00		-7.27E-01	6.29E-01
	LA-140	328.77		20.50	1.49E+00	3.65E-01	1.19E-01	7.02E-01
		487.03		45.50	7.57E-01		2.12E-02	3.54E-01
		815.85		23.50	1.69E+00		6.12E-01	7.74E-01
		1596.49		95.49	3.65E-01		-1.63E-01	1.53E-01
	CE-141	145.44		48.40	1.98E-01	1.98E-01	-3.07E-02	9.53E-02
	CE-143	57.36		11.80	5.21E+06	1.83E+06	-1.96E+06	2.51E+06
		293.26		42.00	1.83E+06		3.48E+06	8.80E+05
		664.55		5.20	1.54E+07		3.91E+06	7.23E+06
	CE-144	133.54		10.80	4.77E-01	4.77E-01	-1.67E-01	2.30E-01
	PM-144	476.78		42.00	1.63E-01	7.13E-02	4.66E-02	7.63E-02
		618.01		98.60	7.13E-02		2.40E-02	3.30E-02
		696.49		99.49	7.56E-02		-8.34E-03	3.50E-02
	PM-145	36.85		21.70	5.78E-01	3.21E-01	-1.90E-01	2.78E-01
		37.36		39.70	3.21E-01		-3.13E-02	1.54E-01
		42.30		15.10	6.13E-01		-1.11E+00	2.95E-01
		72.40		2.31	3.15E+00		-2.08E+00	1.54E+00
	PM-146	453.90		39.94	1.59E-01	1.59E-01	4.59E-02	7.45E-02
		735.90		14.01	5.09E-01		2.28E-01	2.34E-01
		747.13		13.10	5.40E-01		-1.26E-01	2.48E-01
	ND-147	91.11		28.90	1.82E+00	1.82E+00	-1.79E+00	8.87E-01
		531.02		13.10	3.69E+00		3.31E-01	1.72E+00
	PM-149	285.90		3.10	3.63E+04	3.63E+04	9.48E+03	1.71E+04
	EU-152	121.78		20.50	2.18E-01	2.18E-01	-6.06E-02	1.05E-01
		244.69		5.40	9.84E-01		-7.95E-01	4.69E-01
		344.27		19.13	2.48E-01		-5.13E-02	1.16E-01
		778.89		9.20	8.13E-01		6.92E-01	3.75E-01
		964.01		10.40	8.19E-01		-1.59E-01	3.77E-01
		1085.78		7.22	9.48E-01		3.84E-01	4.22E-01
		1112.02		9.60	9.29E-01		-6.86E-02	4.25E-01

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	5.80E-01	2.18E-01	3.87E-01	2.59E-01
	GD-153	97.43		31.30	1.78E-01	1.78E-01	5.14E-02	8.63E-02
		103.18		22.20	2.28E-01		-1.11E-02	1.10E-01
	EU-154	123.07		40.50	1.12E-01	1.12E-01	6.81E-02	5.40E-02
		723.30		19.70	3.45E-01		-4.17E-02	1.58E-01
		873.19		11.50	6.10E-01		3.25E-02	2.77E-01
		996.32		10.30	8.15E-01		-6.09E-02	3.73E-01
		1004.76		17.90	4.38E-01		-1.02E-01	1.99E-01
		1274.45		35.50	2.40E-01		1.98E-02	1.08E-01
	EU-155	86.50		30.90	2.04E-01	2.04E-01	-6.10E-03	9.94E-02
		105.30		20.70	2.24E-01		1.79E-02	1.08E-01
	EU-156	811.77		10.40	2.72E+00	2.72E+00	-9.08E-01	1.24E+00
		1153.47		7.20	5.13E+00		1.48E+00	2.33E+00
		1230.71		8.90	4.54E+00		1.22E-01	2.07E+00
	HO-166M	184.41		72.60	9.15E-02	9.15E-02	1.27E-01	4.43E-02
		280.45		29.60	1.66E-01		-1.88E-02	7.85E-02
		410.94		11.10	5.77E-01		-5.35E-02	2.73E-01
		711.69		54.10	1.27E-01		-8.58E-02	5.85E-02
	TM-171	66.72		0.14	4.63E+01	4.63E+01	-1.03E+01	2.25E+01
	HF-172	81.75		4.52	1.27E+00	4.00E-01	-1.24E+00	6.14E-01
		125.81		11.30	4.00E-01		-2.32E-01	1.92E-01
	LU-172	181.53		20.60	6.81E+00	3.60E+00	1.91E+00	3.27E+00
		810.06		16.63	1.12E+01		-2.90E-01	5.13E+00
		912.12		15.25	2.32E+01		4.46E+01	1.10E+01
		1093.66		62.50	3.60E+00		2.51E+00	1.64E+00
+	LU-173	100.72		5.24	9.57E-01	7.24E-01	3.31E-01	4.62E-01
		272.11	*	21.20	7.24E-01		7.61E-01	3.56E-01
	HF-175	343.40		84.00	8.28E-02	8.28E-02	-1.59E-02	3.88E-02
	LU-176	88.34		13.30	4.87E-01	5.32E-02	4.78E-01	2.38E-01
		201.83		86.00	6.06E-02		-1.89E-02	2.90E-02
		306.78		94.00	5.32E-02		1.36E-02	2.51E-02
	TA-182	67.75		41.20	1.85E-01	1.85E-01	4.40E-02	8.99E-02
		1121.30		34.90	4.54E-01		4.79E-01	2.14E-01
		1189.05		16.23	6.65E-01		3.41E-02	3.02E-01
		1221.41		26.98	4.74E-01		1.65E-01	2.18E-01
		1231.02		11.44	9.95E-01		2.68E-02	4.53E-01
	IR-192	308.46		29.68	2.14E-01	1.85E-01	-4.82E-03	1.00E-01
		468.07		48.10	1.85E-01		4.03E-02	8.70E-02
	HG-203	279.19		77.30	1.14E-01	1.14E-01	4.78E-02	5.40E-02
	BI-207	569.67		97.72	6.93E-02	6.93E-02	1.03E-02	3.23E-02
		1063.62		74.90	9.99E-02		-3.84E-02	4.50E-02
+	TL-208	583.14	*	30.22	3.75E-01	1.99E-01	8.54E-01	1.80E-01
		860.37	*	4.48	1.60E+00		1.33E+00	7.29E-01
		2614.66	*	35.85	1.99E-01		5.79E-01	8.23E-02
	BI-210M	262.00		45.00	1.07E-01	1.07E-01	-3.35E-02	5.06E-02
		300.00		23.00	2.44E-01		-3.30E-01	1.16E-01
+	PB-210	46.50	*	4.25	2.76E+00	2.76E+00	1.88E+00	1.35E+00
	PB-211	404.84		2.90	2.00E+00	2.00E+00	7.69E-01	9.39E-01
		831.96		2.90	2.25E+00		-2.17E+00	1.02E+00
	BI-212	727.17		11.80	6.73E-01	6.73E-01	4.49E-01	3.13E-01
		1620.62		2.75	2.55E+00		5.65E-02	1.09E+00
+	PB-212	238.63	*	44.60	2.27E-01	2.27E-01	1.03E+00	1.11E-01
		300.09	*	3.41	3.98E+00		1.08E+00	1.95E+00

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	2.10E-01	2.10E-01	9.53E-01	1.00E-01
		1120.29	*	15.10	7.57E-01		9.48E-01	3.53E-01
		1764.49	*	15.80	4.09E-01		1.12E+00	1.71E-01
		2204.22	*	4.98	9.84E-01		1.37E+00	3.73E-01
+	PB-214	295.21	*	19.19	6.98E-01	2.43E-01	9.23E-01	3.42E-01
		351.92	*	37.19	2.43E-01		1.08E+00	1.17E-01
	RN-219	401.80		6.50	8.18E-01	8.18E-01	3.98E-02	3.82E-01
	RA-223	323.87		3.88	1.22E+00	1.22E+00	-6.77E-01	5.73E-01
+	RA-224	240.98	*	3.95	2.54E+00	2.54E+00	1.97E+00	1.24E+00
+	RA-225	40.00	*	31.00	1.75E+00	1.75E+00	9.15E-01	8.49E-01
+	RA-226	186.21	*	3.28	2.42E+00	2.42E+00	2.36E+00	1.18E+00
	TH-227	50.10		8.40	7.91E-01	5.25E-01	-1.74E+00	3.81E-01
		236.00		11.50	5.25E-01		-3.21E+00	2.52E-01
		256.20		6.30	7.79E-01		-1.35E-01	3.69E-01
+	AC-228	338.32	*	11.40	7.65E-01	2.87E-01	8.18E-01	3.69E-01
		911.07	*	27.70	2.87E-01		7.88E-01	1.32E-01
		969.11		16.60	6.93E-01		5.53E-01	3.26E-01
	TH-230	48.44		16.90	4.69E-01	4.69E-01	6.71E-02	2.27E-01
		62.85		4.60	1.63E+00		1.87E+00	7.93E-01
		67.67		0.37	1.70E+01		4.03E+00	8.25E+00
	PA-231	283.67		1.60	2.92E+00	2.40E+00	3.11E-01	1.37E+00
		302.67		2.30	2.40E+00		4.17E-01	1.14E+00
	TH-231	25.64		14.70	5.11E+00	9.11E-01	-6.26E+00	2.48E+00
		84.21		6.40	9.11E-01		-1.57E+00	4.43E-01
	PA-233	311.98		38.60	2.64E-01	2.64E-01	-5.02E-02	1.23E-01
	PA-234	131.20		20.40	2.39E-01	2.39E-01	1.07E-01	1.15E-01
		733.99		8.80	7.51E-01		-1.48E-01	3.44E-01
		946.00		12.00	6.35E-01		1.66E-01	2.90E-01
	PA-234M	1001.03		0.92	8.99E+00	8.99E+00	-5.12E-01	4.11E+00
+	TH-234	63.29	*	3.80	2.60E+00	2.60E+00	1.81E+00	1.28E+00
	U-235	143.76		10.50	4.63E-01	4.63E-01	2.54E-02	2.23E-01
		163.35		4.70	1.04E+00		1.28E-01	5.00E-01
		205.31		4.70	1.13E+00		2.71E-01	5.40E-01
	NP-237	86.50		12.60	4.95E-01	4.95E-01	-1.48E-02	2.41E-01
	NP-239	106.10		22.70	2.49E+03	2.49E+03	1.99E+02	1.20E+03
		228.18		10.70	5.99E+03		2.03E+03	2.86E+03
		277.60		14.10	5.00E+03		4.03E+03	2.38E+03
	AM-241	59.54		35.90	1.76E-01	1.76E-01	-2.01E-01	8.50E-02
+	AM-243	74.67	*	66.00	1.44E-01	1.44E-01	2.77E-01	7.08E-02
	CM-243	209.75		3.29	1.66E+00	4.10E-01	3.74E-01	7.94E-01
		228.14		10.60	4.93E-01		1.67E-01	2.35E-01
		277.60		14.00	4.10E-01		3.30E-01	1.96E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1507182-03

FEEBRIS1D-5 063-064

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-5 063-064

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	37	90	100	200	228	171
25:	63	54	50	50	54	42	51	41
33:	52	49	37	47	34	46	45	62
41:	50	52	38	47	47	81	112	46
49:	47	46	45	46	56	67	62	48
57:	50	50	58	69	68	77	111	176
65:	75	83	67	80	81	83	65	69
73:	84	101	252	184	209	294	93	68
81:	61	78	67	82	86	64	101	139
89:	72	101	90	89	232	140	56	61
97:	61	59	54	71	49	48	47	42
105:	38	72	51	38	47	53	47	45
113:	51	52	51	54	35	39	43	42
121:	35	39	49	45	48	29	47	30
129:	47	55	45	45	56	40	38	48
137:	54	44	59	53	43	50	41	42
145:	48	41	44	43	49	36	38	40
153:	36	56	41	40	55	44	40	36
161:	44	44	32	46	39	37	34	37
169:	35	41	36	41	26	43	26	32
177:	30	38	37	39	42	43	34	35
185:	49	127	80	39	47	35	30	37
193:	37	30	28	27	34	35	38	41
201:	29	42	26	38	40	33	33	34
209:	47	47	30	25	34	23	22	19
217:	29	30	18	25	36	25	31	32
225:	18	38	29	32	29	22	30	23
233:	26	26	31	20	33	85	354	103
241:	49	72	51	25	25	20	20	29
249:	26	17	20	27	24	19	20	22
257:	25	27	33	23	12	18	23	29
265:	20	19	13	13	20	34	34	20
273:	15	27	27	30	18	38	25	29
281:	15	11	20	21	14	22	18	24
289:	21	16	20	17	15	18	81	101
297:	21	17	21	23	36	23	21	20
305:	14	23	18	16	20	8	17	15
313:	14	16	17	22	13	23	15	18
321:	16	9	16	17	14	19	19	25
329:	20	21	11	22	17	19	16	8
337:	14	51	73	18	18	23	16	18
345:	13	9	12	18	15	13	36	203
353:	137	30	17	14	22	21	10	12
361:	14	17	11	17	15	16	17	10

369:	9	12	12	12	15	8	13	21

Sample Title: FEEBRIS1D-5 063-064

Channel								
377:	17	9	16	10	10	4	15	12
385:	12	6	13	25	17	26	14	18
393:	12	13	13	9	14	16	23	15
401:	10	10	15	19	13	17	18	15
409:	15	18	15	13	10	13	18	8
417:	16	9	6	11	4	10	12	6
425:	10	12	7	13	9	23	10	6
433:	8	9	13	10	10	11	7	20
441:	15	10	16	17	13	10	15	12
449:	6	14	10	10	11	12	13	11
457:	14	7	12	10	12	16	30	23
465:	15	11	13	11	18	13	5	4
473:	12	11	10	17	11	11	10	9
481:	13	8	10	9	8	8	13	11
489:	7	12	9	11	7	6	14	5
497:	16	7	10	4	8	8	10	7
505:	4	11	10	10	18	33	56	42
513:	21	12	10	8	9	5	15	10
521:	6	16	5	12	6	10	10	9
529:	6	8	14	9	10	10	11	5
537:	7	9	9	8	7	11	12	7
545:	11	8	11	9	10	7	5	8
553:	11	6	5	8	13	8	8	12
561:	9	7	15	6	9	7	11	5
569:	7	16	8	13	6	8	10	11
577:	17	10	10	7	7	18	73	69
585:	17	8	2	11	7	8	4	5
593:	9	6	8	6	7	5	9	11
601:	13	7	16	6	8	6	12	17
609:	106	124	25	15	12	5	9	11
617:	7	9	5	5	9	6	3	10
625:	7	14	9	7	8	4	7	9
633:	4	6	6	1	9	5	4	6
641:	5	10	6	10	4	5	5	7
649:	5	15	5	7	9	7	11	7
657:	9	6	8	10	14	28	10	3
665:	14	7	5	5	7	8	7	8
673:	16	9	6	5	11	8	5	10
681:	5	3	1	5	11	10	8	10
689:	5	4	6	10	6	14	11	6
697:	5	2	9	5	4	12	12	4
705:	7	7	11	12	5	4	9	11
713:	8	8	2	9	9	6	7	7
721:	1	4	8	8	8	8	16	10
729:	9	3	4	5	4	9	3	9
737:	7	7	8	6	3	12	5	9
745:	7	10	4	5	2	8	9	5
753:	5	7	5	4	11	5	4	10
761:	7	2	4	6	5	10	5	14
769:	13	8	3	6	10	8	2	6
777:	11	6	6	5	10	4	1	1
785:	9	8	5	7	7	7	3	5
793:	4	10	20	8	7	4	4	7

801:	8	3	9	6	10	9	11	1

Sample Title: FEEBRIS1D-5 063-064

Channel								
809:	4	5	5	4	7	4	5	5
817:	8	3	7	6	1	0	3	3
825:	4	3	8	5	6	2	6	5
833:	6	4	3	13	7	5	5	8
841:	7	6	8	2	6	11	8	5
849:	6	2	5	3	5	6	2	8
857:	2	2	8	13	13	8	6	4
865:	7	10	3	3	2	14	4	5
873:	2	1	3	5	3	8	5	10
881:	6	3	0	6	7	4	4	2
889:	9	1	5	1	6	5	6	5
897:	4	1	3	1	8	7	8	3
905:	6	4	4	2	5	20	50	27
913:	8	4	5	2	2	3	5	7
921:	5	5	5	4	3	4	4	6
929:	5	6	4	2	3	10	9	2
937:	8	5	4	4	3	5	4	7
945:	7	6	5	4	3	2	6	5
953:	4	5	7	2	4	4	4	4
961:	5	3	6	10	11	7	2	11
969:	36	20	4	4	4	4	4	2
977:	5	5	6	7	8	0	4	6
985:	8	2	5	7	6	6	3	7
993:	2	6	5	6	11	6	4	8
1001:	6	5	7	3	3	5	7	4
1009:	4	6	4	3	7	2	5	1
1017:	4	5	1	6	3	9	3	6
1025:	2	4	4	5	6	5	4	5
1033:	6	2	2	5	6	1	6	5
1041:	5	9	4	3	3	5	5	4
1049:	6	3	5	5	5	3	2	4
1057:	4	5	7	4	4	4	3	4
1065:	5	6	2	5	6	1	2	3
1073:	5	3	4	3	6	6	5	1
1081:	0	6	3	5	6	5	2	1
1089:	0	3	3	5	9	2	4	4
1097:	6	2	2	4	4	5	7	4
1105:	6	4	5	4	4	2	5	4
1113:	11	8	4	8	6	4	16	34
1121:	14	9	4	5	3	6	6	2
1129:	5	5	4	6	0	3	6	5
1137:	4	5	5	6	7	3	7	6
1145:	6	4	8	4	3	3	9	3
1153:	3	4	3	8	6	1	4	4
1161:	5	2	1	2	4	4	6	6
1169:	5	4	6	7	6	7	5	3
1177:	1	5	2	3	5	5	9	4
1185:	2	6	2	7	4	3	4	8
1193:	8	4	5	6	5	7	2	6
1201:	8	5	7	5	5	5	6	2
1209:	5	6	5	3	4	5	3	3
1217:	8	6	6	4	6	5	11	9
1225:	5	4	5	4	4	7	5	4

1233:	6	6	5	11	5	12	8	8

Sample Title: FEEBRIS1D-5 063-064

Channel								
1241:	7	7	3	3	2	2	7	3
1249:	3	4	3	3	4	4	4	1
1257:	1	1	2	4	5	5	4	1
1265:	5	3	5	8	4	2	3	4
1273:	2	4	8	1	5	7	1	5
1281:	3	7	6	3	3	5	6	4
1289:	3	3	2	1	0	1	5	5
1297:	4	1	3	3	3	2	7	4
1305:	3	4	4	4	4	2	4	5
1313:	2	7	3	4	1	2	4	2
1321:	8	1	5	2	2	5	3	3
1329:	1	2	3	4	4	0	4	2
1337:	3	2	4	1	3	2	2	2
1345:	0	2	4	1	1	2	1	1
1353:	1	3	4	1	3	3	0	4
1361:	1	1	3	3	2	3	2	1
1369:	2	0	3	1	1	1	1	2
1377:	11	5	3	3	2	3	1	1
1385:	4	1	1	2	2	2	1	0
1393:	2	3	1	1	2	1	0	1
1401:	3	4	2	0	2	3	5	6
1409:	4	3	1	1	1	3	4	1
1417:	2	1	1	1	0	2	1	1
1425:	2	3	2	0	4	0	0	1
1433:	2	2	0	1	0	3	1	3
1441:	1	1	2	3	2	2	5	4
1449:	4	2	0	2	1	1	2	2
1457:	3	4	36	152	193	73	12	5
1465:	1	3	0	0	2	0	2	4
1473:	1	1	1	2	1	3	2	0
1481:	1	0	0	1	1	2	2	1
1489:	1	2	2	1	2	1	2	2
1497:	2	0	2	2	1	2	0	1
1505:	3	1	5	4	0	2	2	2
1513:	1	1	1	5	1	2	1	2
1521:	1	1	1	1	0	2	1	2
1529:	0	2	0	3	1	0	2	3
1537:	2	1	2	2	2	1	1	0
1545:	0	0	0	0	2	1	0	1
1553:	2	1	1	1	5	0	0	3
1561:	2	0	0	1	0	0	0	0
1569:	2	0	1	2	2	1	0	1
1577:	2	3	3	0	4	2	5	2
1585:	1	0	5	4	1	6	2	4
1593:	3	0	2	1	1	1	1	2
1601:	2	0	2	2	1	0	1	2
1609:	0	0	2	2	2	0	2	0
1617:	3	1	2	3	1	1	1	2
1625:	2	0	0	1	1	3	1	5
1633:	0	1	1	2	0	3	0	2
1641:	1	1	1	1	2	2	1	2
1649:	0	2	1	1	1	1	0	1
1657:	0	2	3	0	2	1	1	3

1665:	1	0	1	1	0	1	1	1

Sample Title: FEEBRIS1D-5 063-064

Channel								
1673:	0	0	2	3	0	1	0	2
1681:	1	2	0	1	1	2	1	0
1689:	1	0	1	1	1	1	2	0
1697:	1	0	1	1	0	2	0	1
1705:	1	0	0	1	1	1	0	1
1713:	1	0	1	0	1	1	0	1
1721:	0	2	1	0	0	0	0	1
1729:	3	7	4	1	0	1	0	0
1737:	0	1	0	0	0	1	0	0
1745:	0	2	0	1	1	0	2	3
1753:	0	0	0	2	1	0	2	3
1761:	1	2	9	18	9	6	0	1
1769:	1	0	0	0	2	0	1	3
1777:	0	2	0	0	0	1	1	1
1785:	1	0	0	0	2	0	1	0
1793:	2	2	1	1	1	2	0	1
1801:	0	2	0	2	0	0	0	1
1809:	1	0	0	1	2	0	0	0
1817:	0	4	0	0	1	0	1	0
1825:	3	2	0	0	0	0	5	1
1833:	1	0	0	1	0	0	1	0
1841:	0	0	2	3	1	4	4	5
1849:	0	0	1	0	1	0	0	0
1857:	0	0	1	0	0	0	1	1
1865:	1	1	0	1	1	1	0	0
1873:	2	0	0	1	1	0	2	0
1881:	0	0	3	0	1	0	0	0
1889:	0	0	0	2	2	2	0	2
1897:	1	1	2	0	0	0	1	2
1905:	1	0	2	1	1	0	1	0
1913:	0	2	0	1	0	0	0	0
1921:	0	0	1	1	0	0	0	0
1929:	0	1	0	0	0	0	4	0
1937:	1	1	0	0	0	0	0	1
1945:	0	1	2	1	2	1	0	0
1953:	1	1	0	2	2	1	1	2
1961:	1	0	0	1	0	0	1	1
1969:	0	1	0	0	1	1	2	0
1977:	2	0	0	1	0	1	3	1
1985:	0	0	1	0	0	0	0	0
1993:	1	0	1	1	0	0	2	1
2001:	1	0	0	0	0	0	3	2
2009:	0	0	2	1	1	0	2	1
2017:	3	1	0	1	2	1	1	0
2025:	0	0	1	1	0	0	0	0
2033:	1	2	0	0	1	0	0	1
2041:	0	1	0	1	1	1	0	2
2049:	1	0	0	0	1	0	0	0
2057:	0	2	0	0	1	0	1	0
2065:	0	0	1	1	1	1	3	1
2073:	1	3	1	0	0	1	3	0
2081:	0	0	1	0	0	0	2	1
2089:	2	0	1	0	0	0	0	0

2097:	1	3	1	1	1	1	1	1

Sample Title: FEEBRIS1D-5 063-064

Channel								
2105:	0	3	2	0	1	0	1	1
2113:	0	1	2	0	0	0	0	1
2121:	0	0	0	1	1	2	1	0
2129:	1	0	3	0	2	1	1	1
2137:	0	0	0	3	1	0	1	0
2145:	1	1	1	0	0	0	0	1
2153:	0	0	0	0	3	0	1	0
2161:	0	1	1	0	2	2	0	1
2169:	3	1	1	0	1	0	0	0
2177:	1	1	2	0	1	1	0	2
2185:	0	0	2	0	0	0	0	1
2193:	0	0	1	0	1	0	0	0
2201:	1	4	4	5	1	3	0	1
2209:	1	0	1	1	0	1	1	1
2217:	1	2	2	1	0	1	1	0
2225:	0	1	1	2	1	1	0	1
2233:	1	1	0	0	1	1	1	0
2241:	0	0	1	1	0	0	0	0
2249:	2	0	0	1	0	1	0	1
2257:	0	2	0	2	0	1	0	0
2265:	1	0	0	0	0	2	0	0
2273:	1	1	0	1	0	1	0	1
2281:	1	0	1	1	1	2	1	0
2289:	2	2	2	0	1	1	1	0
2297:	1	0	0	0	0	0	0	1
2305:	1	0	0	1	0	1	1	2
2313:	0	0	2	2	0	0	3	1
2321:	0	1	0	1	0	0	1	1
2329:	0	3	0	1	0	1	0	2
2337:	0	1	0	0	1	0	1	0
2345:	0	1	1	0	0	0	2	0
2353:	0	1	2	0	2	1	3	0
2361:	0	2	1	1	0	0	1	0
2369:	0	0	3	0	0	1	0	0
2377:	1	0	0	0	0	1	2	0
2385:	1	2	2	1	0	1	0	0
2393:	0	1	0	0	0	0	1	0
2401:	1	2	0	0	2	0	0	1
2409:	0	0	0	2	1	2	0	0
2417:	1	0	0	0	0	0	0	0
2425:	1	0	0	1	1	0	1	0
2433:	0	1	0	0	1	0	0	1
2441:	0	0	0	1	0	1	3	2
2449:	1	0	0	0	0	2	0	0
2457:	1	0	1	0	2	0	0	1
2465:	1	0	0	0	0	0	0	0
2473:	0	0	0	0	1	0	0	0
2481:	2	0	1	0	0	1	0	0
2489:	0	1	0	1	1	0	1	0
2497:	1	0	0	1	0	0	1	0
2505:	0	0	0	1	2	1	0	0
2513:	0	0	0	0	0	0	0	0
2521:	0	0	0	0	0	1	1	0

2529:	0	1	1	0	0	0	0	0

Sample Title: FEEBRIS1D-5 063-064

Channel								
2537:	0	1	1	0	0	2	0	0
2545:	0	0	1	0	0	0	0	1
2553:	0	0	1	0	0	0	0	0
2561:	0	0	0	0	0	0	2	0
2569:	0	0	1	1	0	0	2	0
2577:	0	1	1	0	0	1	0	0
2585:	0	0	0	2	1	0	0	0
2593:	0	0	0	1	0	1	0	0
2601:	1	1	0	1	0	0	0	1
2609:	1	1	2	6	12	14	13	3
2617:	0	1	0	0	0	1	0	1
2625:	1	0	0	0	0	0	0	0
2633:	0	0	0	0	1	0	0	0
2641:	0	0	0	2	1	0	0	0
2649:	1	0	1	0	0	0	0	0
2657:	0	0	0	1	1	0	0	0
2665:	0	1	0	1	0	0	0	0
2673:	0	0	0	0	0	0	2	0
2681:	1	0	0	1	0	1	0	0
2689:	1	0	0	0	0	0	1	2
2697:	0	0	1	0	0	1	0	0
2705:	0	0	0	0	0	0	1	0
2713:	0	0	1	1	0	0	0	0
2721:	0	0	2	0	2	0	0	1
2729:	0	1	0	2	0	1	1	2
2737:	0	0	1	0	0	0	0	0
2745:	0	0	0	0	0	0	2	0
2753:	0	0	0	0	1	0	0	1
2761:	1	0	0	0	0	1	0	1
2769:	0	1	2	0	0	0	0	0
2777:	0	1	1	0	1	0	0	0
2785:	0	0	0	1	0	1	1	0
2793:	0	0	0	0	0	0	1	0
2801:	1	0	1	0	0	0	0	1
2809:	0	0	0	0	1	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	1	1	0	0	0	0
2833:	0	0	0	1	0	2	0	0
2841:	0	0	0	0	1	0	0	0
2849:	0	0	0	0	0	1	0	0
2857:	1	1	0	0	1	0	0	0
2865:	1	0	0	0	0	0	1	1
2873:	1	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	1	1	1	1	0	0	0	0
2897:	1	1	0	0	1	0	0	0
2905:	0	1	1	0	0	0	0	0
2913:	0	0	0	0	1	0	0	0
2921:	1	1	1	1	0	0	0	0
2929:	1	0	0	0	0	1	0	1
2937:	0	0	0	0	0	0	0	0
2945:	0	2	0	0	0	0	0	0
2953:	1	0	0	2	0	1	0	0

2961:	0	1	1	0	0	0	1	0

Sample Title: FEEBRIS1D-5 063-064

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	1	0	0	1	0	0
2993:	1	0	0	1	0	0	0	1
3001:	0	0	2	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	1	0	0	1	0	0	0	0
3025:	0	0	0	0	0	1	0	0
3033:	1	1	0	0	0	1	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	2	0	1	0	0
3057:	0	0	0	0	0	0	0	1
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	3	0	0	0	0
3081:	1	0	0	0	1	0	0	0
3089:	1	0	0	0	0	0	0	0
3097:	0	0	0	1	0	0	1	1
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	1	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	3	0
3137:	0	0	1	0	0	0	1	0
3145:	0	1	0	0	1	0	0	0
3153:	0	0	0	0	1	1	1	0
3161:	0	0	0	1	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	1	0	0
3185:	0	1	1	0	0	0	0	0
3193:	1	0	0	1	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	1	0	0	0	0	0
3225:	1	1	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	1	0	1	0	0	0	0	1
3249:	0	0	0	2	1	0	0	0
3257:	0	0	0	0	0	0	0	1
3265:	0	0	0	0	0	0	0	0
3273:	1	0	0	0	0	1	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	1	0	0
3297:	0	1	0	0	0	1	0	0
3305:	0	0	0	0	1	0	0	0
3313:	0	0	0	0	0	0	0	1
3321:	0	0	0	0	1	1	0	0
3329:	0	0	0	1	0	0	1	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	1
3353:	0	0	0	1	0	0	0	0
3361:	1	0	0	0	0	0	0	0
3369:	0	1	0	0	0	0	0	0
3377:	0	0	1	0	0	0	0	0
3385:	1	0	0	0	0	0	0	0

3393:	1	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-5 063-064

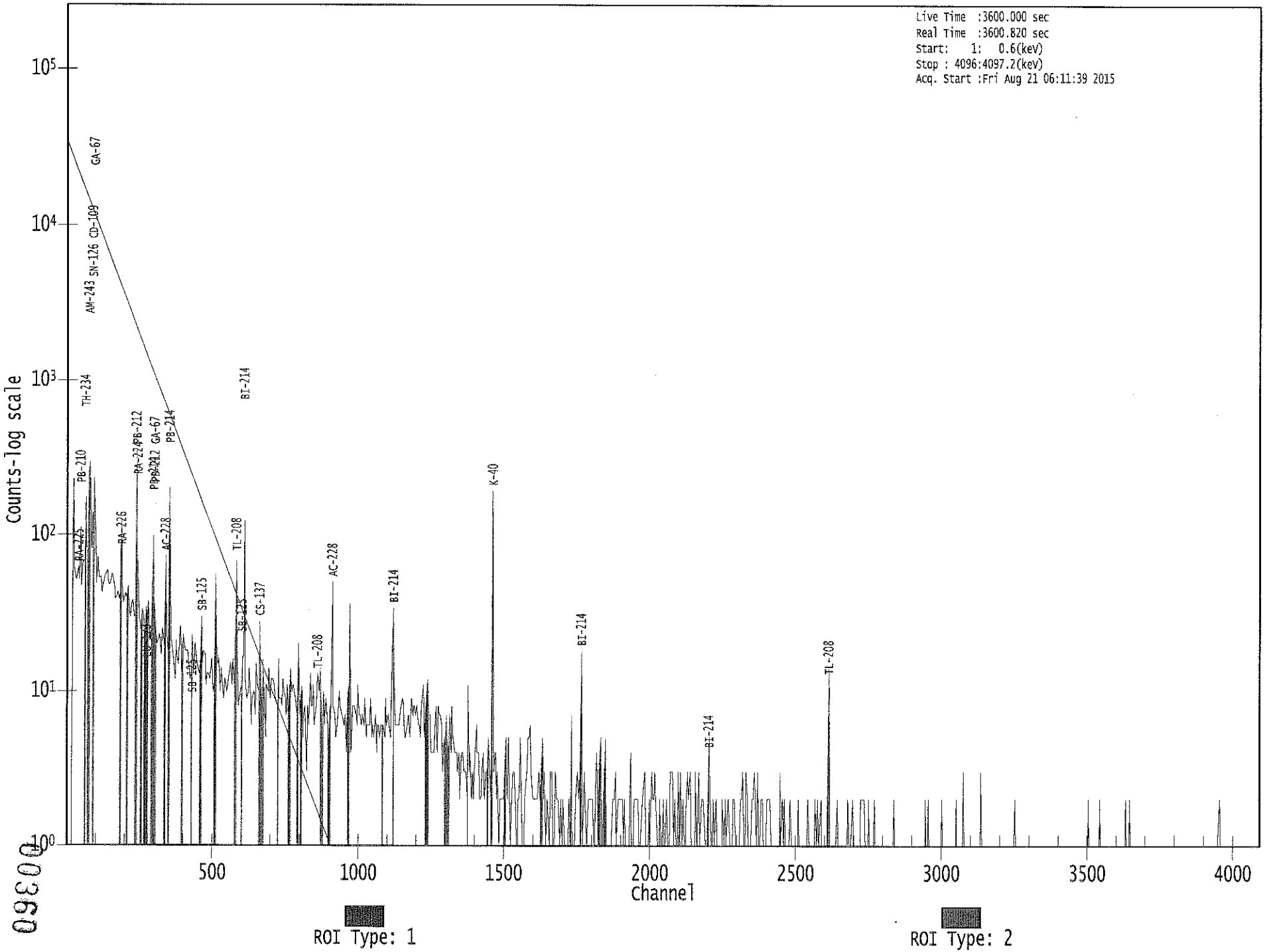
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	1	0	0
3425:	1	0	0	0	1	0	0	1
3433:	0	0	0	1	0	0	1	0
3441:	0	1	0	1	1	0	0	1
3449:	0	0	1	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	1	0	0	0	0	0
3473:	1	0	1	0	1	0	0	0
3481:	0	0	0	1	0	0	0	1
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	1	0	1	2
3505:	0	0	0	0	0	0	0	0
3513:	0	1	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	2	0
3545:	0	0	0	0	0	1	0	0
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	1	0	0
3577:	0	1	0	1	0	0	0	0
3585:	0	0	1	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	1	0	0	0	0	0	0
3609:	0	0	0	1	0	0	1	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	1	2
3633:	0	0	0	0	0	0	1	0
3641:	0	0	0	1	2	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	1
3673:	0	0	0	0	0	1	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	1	0	0	0	0	0	0
3697:	0	1	0	0	0	1	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	1	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	1	0	0	0	0
3753:	0	0	1	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	1	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	1	0
3793:	0	0	0	0	0	0	0	1
3801:	0	0	0	0	0	0	0	0
3809:	0	0	1	0	0	0	1	0
3817:	0	0	0	0	0	0	0	1

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-5 063-064

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	1	0	0	1
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	1	1
3881:	0	0	1	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	1	0	0	0	0
3905:	1	0	1	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	1	0	1	0	0	0	0	1
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	1	0	0	1	0	0
3953:	0	0	2	0	0	0	0	0
3961:	0	0	0	0	0	0	0	1
3969:	0	1	0	0	0	0	0	0
3977:	0	0	0	0	1	0	0	0
3985:	0	1	0	0	0	0	0	0
3993:	0	0	0	0	0	1	0	0
4001:	0	1	0	0	0	0	0	0
4009:	0	1	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	1	1	0	1	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	1	0	0	0	0	0
4065:	0	0	0	0	1	0	0	0
4073:	0	1	0	0	0	0	0	0
4081:	1	1	0	0	0	0	0	1
4089:	0	0	0	0	0	0	0	0

0000026225.CNF



00360

Apex-Gamma

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-04
Sample Description	: FEEBRIS1D-5 063-064
Sample Type	: SOIL
Sample Size	: 4.348E+02 grams
Facility	: Countroom
Sample Taken On	: 7/20/2015 6:44:04AM
Acquisition Started	: 8/21/2015 7:16:34AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.9 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 18 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26230

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 8:16:38AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.71	47.06	0.0000	0.00
2	74.94	75.28	0.0000	0.00
3	77.44	77.78	0.0000	0.00
4	92.92	93.25	0.0000	0.00
5	186.10	186.41	0.0000	0.00
6	226.86	227.15	0.0000	0.00
7	238.69	238.98	0.0000	0.00
8	242.03	242.32	0.0000	0.00
9	295.47	295.73	0.0000	0.00
10	299.90	300.17	0.0000	0.00
11	338.39	338.65	0.0000	0.00
12	352.02	352.27	0.0000	0.00
13	462.72	462.93	0.0000	0.00
14	510.60	510.79	0.0000	0.00
15	521.62	521.82	0.0000	0.00
16	562.26	562.44	0.0000	0.00
17	572.19	572.37	0.0000	0.00
18	583.19	583.36	0.0000	0.00
19	609.40	609.56	0.0000	0.00
20	661.86	662.01	0.0000	0.00
21	672.67	672.80	0.0000	0.00
22	727.47	727.59	0.0000	0.00
23	761.57	761.68	0.0000	0.00
24	768.37	768.48	0.0000	0.00
25	911.06	911.11	0.0000	0.00
26	964.62	964.66	0.0000	0.00
27	969.04	969.07	0.0000	0.00
28	1120.71	1120.69	0.0000	0.00
29	1303.73	1303.64	0.0000	0.00
30	1345.10	1345.00	0.0000	0.00
31	1378.10	1377.99	0.0000	0.00
32	1394.23	1394.11	0.0000	0.00
33	1402.40	1402.28	0.0000	0.00
34	1409.06	1408.94	0.0000	0.00
35	1460.87	1460.73	0.0000	0.00
36	1491.33	1491.18	0.0000	0.00
37	1496.08	1495.92	0.0000	0.00
38	1533.70	1533.53	0.0000	0.00
39	1537.70	1537.53	0.0000	0.00
40	1588.14	1587.95	0.0000	0.00
41	1593.42	1593.22	0.0000	0.00
42	1660.84	1660.62	0.0000	0.00

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1734.39	1734.15	0.0000	0.00
44	1738.22	1737.98	0.0000	0.00
45	1755.54	1755.29	0.0000	0.00
46	1764.44	1764.18	0.0000	0.00
47	1846.66	1846.38	0.0000	0.00
48	1872.55	1872.25	0.0000	0.00
49	1898.44	1898.13	0.0000	0.00
50	2102.88	2102.50	0.0000	0.00
51	2203.62	2203.19	0.0000	0.00
52	2613.92	2613.34	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 8:16:38AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.71	43 -	50	47.06	1.03E+02	70.91	7.72E+02	1.25
M	2	74.94	72 -	83	75.28	2.14E+02	71.51	8.33E+02	1.60
m	3	77.44	72 -	83	77.78	3.53E+02	76.53	7.72E+02	1.61
	4	92.92	90 -	97	93.25	2.61E+02	84.52	9.79E+02	1.79
	5	186.10	183 -	189	186.41	1.23E+02	55.29	4.62E+02	1.94
	6	226.86	225 -	230	227.15	4.12E+01	36.76	2.38E+02	1.23
M	7	238.69	235 -	245	238.98	5.13E+02	53.49	2.43E+02	1.69
m	8	242.03	235 -	245	242.32	1.60E+02	48.71	2.55E+02	1.85
M	9	295.47	292 -	302	295.73	2.10E+02	40.40	1.84E+02	1.59
m	10	299.90	292 -	302	300.17	3.01E+01	35.28	2.12E+02	1.91
	11	338.39	335 -	341	338.65	8.55E+01	38.72	2.11E+02	2.02
	12	352.02	348 -	355	352.27	3.28E+02	51.07	2.16E+02	1.68
	13	462.72	460 -	466	462.93	3.35E+01	26.67	1.05E+02	2.83
	14	510.60	506 -	516	510.79	1.18E+02	45.14	2.09E+02	2.99
	15	521.62	519 -	525	521.82	2.86E+01	22.39	6.49E+01	2.15
	16	562.26	557 -	567	562.44	3.17E+01	32.80	1.27E+02	7.92
	17	572.19	568 -	578	572.37	3.49E+01	34.24	1.38E+02	5.93
	18	583.19	579 -	588	583.36	1.27E+02	42.97	1.95E+02	1.97
	19	609.40	605 -	615	609.56	2.67E+02	51.50	2.01E+02	1.90
	20	661.86	660 -	666	662.01	4.82E+01	26.58	9.76E+01	1.40
	21	672.67	669 -	677	672.80	2.25E+01	24.83	8.10E+01	3.29
	22	727.47	723 -	731	727.59	3.72E+01	29.64	1.12E+02	1.91
	23	761.57	759 -	765	761.68	2.13E+01	22.21	7.54E+01	3.99
	24	768.37	766 -	772	768.48	2.37E+01	22.21	7.06E+01	1.76
	25	911.06	905 -	915	911.11	9.78E+01	36.60	1.26E+02	1.89
M	26	964.62	962 -	973	964.66	1.98E+01	17.80	4.18E+01	2.64
m	27	969.04	962 -	973	969.07	5.62E+01	25.53	7.23E+01	2.59
	28	1120.71	1114 -	1126	1120.69	6.88E+01	31.52	8.45E+01	2.27
	29	1303.73	1301 -	1306	1303.64	1.26E+01	10.82	1.08E+01	3.25
	30	1345.10	1341 -	1349	1345.00	1.55E+01	12.20	1.29E+01	5.46
	31	1378.10	1374 -	1382	1377.99	1.55E+01	14.47	2.31E+01	4.83
M	32	1394.23	1383 -	1405	1394.11	1.12E+01	12.37	1.79E+01	2.89
m	33	1402.40	1383 -	1405	1402.28	1.22E+01	11.00	8.92E+00	2.89
	34	1409.06	1406 -	1413	1408.94	1.60E+01	10.58	8.00E+00	2.96
	35	1460.87	1455 -	1466	1460.73	4.68E+02	47.50	4.80E+01	1.99
M	36	1491.33	1490 -	1499	1491.18	8.24E+00	4.95	1.00E+00	4.30
m	37	1496.08	1490 -	1499	1495.92	9.79E+00	8.97	8.22E+00	2.43
M	38	1533.70	1531 -	1540	1533.53	6.70E+00	7.21	1.18E+01	2.69
m	39	1537.70	1531 -	1540	1537.53	9.01E+00	11.14	9.80E+00	2.69
M	40	1588.14	1581 -	1596	1587.95	1.36E+01	12.22	1.81E+01	2.47

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
m	41	1593.42	1581 -	1596	1593.22	9.30E+00	10.64	1.49E+01	2.47
	42	1660.84	1657 -	1663	1660.62	5.36E+00	6.34	3.29E+00	1.10
M	43	1734.39	1725 -	1740	1734.15	8.61E+00	9.39	5.92E+00	3.06
m	44	1738.22	1725 -	1740	1737.98	5.95E+00	7.50	6.04E+00	3.06
	45	1755.54	1752 -	1758	1755.29	7.00E+00	5.29	0.00E+00	1.92
	46	1764.44	1760 -	1768	1764.18	4.99E+01	15.11	4.12E+00	1.77
	47	1846.66	1843 -	1849	1846.38	1.60E+01	8.00	0.00E+00	4.13
	48	1872.55	1868 -	1876	1872.25	1.20E+01	6.93	0.00E+00	5.88
	49	1898.44	1895 -	1900	1898.13	4.58E+00	5.74	2.83E+00	2.72
	50	2102.88	2097 -	2106	2102.50	9.38E+00	8.54	5.25E+00	4.66
	51	2203.62	2199 -	2206	2203.19	1.20E+01	9.80	8.00E+00	2.38
	52	2613.92	2608 -	2617	2613.34	5.37E+01	15.78	4.63E+00	3.07

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 8:16:38AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.71	43 -	50	1.03E+02	70.91	7.72E+02	5.58E+01
M	2	74.94	72 -	83	2.14E+02	71.51	8.33E+02	4.75E+01
m	3	77.44	72 -	83	3.53E+02	76.53	7.72E+02	4.57E+01
	4	92.92	90 -	97	2.61E+02	84.52	9.79E+02	6.42E+01
	5	186.10	183 -	189	1.23E+02	55.29	4.62E+02	4.16E+01
	6	226.86	225 -	230	4.12E+01	36.76	2.38E+02	2.83E+01
M	7	238.69	235 -	245	5.13E+02	53.49	2.43E+02	2.56E+01
m	8	242.03	235 -	245	1.60E+02	48.71	2.55E+02	2.62E+01
M	9	295.47	292 -	302	2.10E+02	40.40	1.84E+02	2.23E+01
m	10	299.90	292 -	302	3.01E+01	35.28	2.12E+02	2.40E+01
	11	338.39	335 -	341	8.55E+01	38.72	2.11E+02	2.80E+01
	12	352.02	348 -	355	3.28E+02	51.07	2.16E+02	2.96E+01
	13	462.72	460 -	466	3.35E+01	26.67	1.05E+02	1.98E+01
	14	510.60	506 -	516	1.18E+02	45.14	2.09E+02	3.25E+01
	15	521.62	519 -	525	2.86E+01	22.39	6.49E+01	1.62E+01
	16	562.26	557 -	567	3.17E+01	32.80	1.27E+02	2.53E+01

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	17	572.19	568 -	578	3.49E+01	34.24	1.38E+02	1.41E+01
	18	583.19	579 -	588	1.27E+02	42.97	1.95E+02	3.01E+01
	19	609.40	605 -	615	2.67E+02	51.50	2.01E+02	3.27E+01
	20	661.86	660 -	666	4.82E+01	26.58	9.76E+01	1.86E+01
	21	672.67	669 -	677	2.25E+01	24.83	8.10E+01	1.89E+01
	22	727.47	723 -	731	3.72E+01	29.64	1.12E+02	2.22E+01
	23	761.57	759 -	765	2.13E+01	22.21	7.54E+01	1.66E+01
	24	768.37	766 -	772	2.37E+01	22.21	7.06E+01	1.64E+01
	25	911.06	905 -	915	9.78E+01	36.60	1.26E+02	2.53E+01
M	26	964.62	962 -	973	1.98E+01	17.80	4.18E+01	1.06E+01
m	27	969.04	962 -	973	5.62E+01	25.53	7.23E+01	1.40E+01
	28	1120.71	1114 -	1126	6.88E+01	31.52	8.45E+01	2.20E+01
	29	1303.73	1301 -	1306	1.26E+01	10.82	1.08E+01	6.71E+00
	30	1345.10	1341 -	1349	1.55E+01	12.20	1.29E+01	7.65E+00
	31	1378.10	1374 -	1382	1.55E+01	14.47	2.31E+01	9.98E+00
M	32	1394.23	1383 -	1405	1.12E+01	12.37	1.79E+01	6.96E+00
m	33	1402.40	1383 -	1405	1.22E+01	11.00	8.92E+00	4.91E+00
	34	1409.06	1406 -	1413	1.60E+01	10.58	8.00E+00	5.70E+00
	35	1460.87	1455 -	1466	4.68E+02	47.50	4.80E+01	1.61E+01
M	36	1491.33	1490 -	1499	8.24E+00	4.95	1.00E+00	1.64E+00
m	37	1496.08	1490 -	1499	9.79E+00	8.97	8.22E+00	4.71E+00
M	38	1533.70	1531 -	1540	6.70E+00	7.21	1.18E+01	5.65E+00
m	39	1537.70	1531 -	1540	9.01E+00	11.14	9.80E+00	5.15E+00
M	40	1588.14	1581 -	1596	1.36E+01	12.22	1.81E+01	6.99E+00
m	41	1593.42	1581 -	1596	9.30E+00	10.64	1.49E+01	6.35E+00
	42	1660.84	1657 -	1663	5.36E+00	6.34	3.29E+00	3.57E+00
M	43	1734.39	1725 -	1740	8.61E+00	9.39	5.92E+00	4.00E+00
m	44	1738.22	1725 -	1740	5.95E+00	7.50	6.04E+00	4.04E+00
	45	1755.54	1752 -	1758	7.00E+00	5.29	0.00E+00	0.00E+00
	46	1764.44	1760 -	1768	4.99E+01	15.11	4.12E+00	4.39E+00
	47	1846.66	1843 -	1849	1.60E+01	8.00	0.00E+00	0.00E+00
	48	1872.55	1868 -	1876	1.20E+01	6.93	0.00E+00	0.00E+00
	49	1898.44	1895 -	1900	4.58E+00	5.74	2.83E+00	3.15E+00
	50	2102.88	2097 -	2106	9.38E+00	8.54	5.25E+00	4.90E+00
	51	2203.62	2199 -	2206	1.20E+01	9.80	8.00E+00	5.70E+00
	52	2613.92	2608 -	2617	5.37E+01	15.78	4.63E+00	4.81E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 8:16:38AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.71	43 -	50	47.06	1.03E+02	70.91	7.72E+02	PB-210
M	2	74.94	72 -	83	75.28	2.14E+02	71.51	8.33E+02	AM-243
m	3	77.44	72 -	83	77.78	3.53E+02	76.53	7.72E+02	TI-44
	4	92.92	90 -	97	93.25	2.61E+02	84.52	9.79E+02	GA-67
	5	186.10	183 -	189	186.41	1.23E+02	55.29	4.62E+02	RA-226
	6	226.86	225 -	230	227.15	4.12E+01	36.76	2.38E+02	.....
M	7	238.69	235 -	245	238.98	5.13E+02	53.49	2.43E+02	PB-212
m	8	242.03	235 -	245	242.32	1.60E+02	48.71	2.55E+02	.....
M	9	295.47	292 -	302	295.73	2.10E+02	40.40	1.84E+02	PB-214
m	10	299.90	292 -	302	300.17	3.01E+01	35.28	2.12E+02	BI-210M PB-212 GA-67
	11	338.39	335 -	341	338.65	8.55E+01	38.72	2.11E+02	AC-228
	12	352.02	348 -	355	352.27	3.28E+02	51.07	2.16E+02	PB-214
	13	462.72	460 -	466	462.93	3.35E+01	26.67	1.05E+02	SB-125
	14	510.60	506 -	516	510.79	1.18E+02	45.14	2.09E+02	.....
	15	521.62	519 -	525	521.82	2.86E+01	22.39	6.49E+01	.....
	16	562.26	557 -	567	562.44	3.17E+01	32.80	1.27E+02	CS-134
	17	572.19	568 -	578	572.37	3.49E+01	34.24	1.38E+02	.....
	18	583.19	579 -	588	583.36	1.27E+02	42.97	1.95E+02	TL-208
	19	609.40	605 -	615	609.56	2.67E+02	51.50	2.01E+02	BI-214
	20	661.86	660 -	666	662.01	4.82E+01	26.58	9.76E+01	CS-137
	21	672.67	669 -	677	672.80	2.25E+01	24.83	8.10E+01	.....
	22	727.47	723 -	731	727.59	3.72E+01	29.64	1.12E+02	BI-212
	23	761.57	759 -	765	761.68	2.13E+01	22.21	7.54E+01	.....
	24	768.37	766 -	772	768.48	2.37E+01	22.21	7.06E+01	.....
	25	911.06	905 -	915	911.11	9.78E+01	36.60	1.26E+02	AC-228
M	26	964.62	962 -	973	964.66	1.98E+01	17.80	4.18E+01	EU-152
m	27	969.04	962 -	973	969.07	5.62E+01	25.53	7.23E+01	AC-228
	28	1120.71	1114 -	1126	1120.69	6.88E+01	31.52	8.45E+01	SC-46 BI-214 TA-182
	29	1303.73	1301 -	1306	1303.64	1.26E+01	10.82	1.08E+01	.....
	30	1345.10	1341 -	1349	1345.00	1.55E+01	12.20	1.29E+01	.....
	31	1378.10	1374 -	1382	1377.99	1.55E+01	14.47	2.31E+01	.....
M	32	1394.23	1383 -	1405	1394.11	1.12E+01	12.37	1.79E+01	.....
m	33	1402.40	1383 -	1405	1402.28	1.22E+01	11.00	8.92E+00	.....
	34	1409.06	1406 -	1413	1408.94	1.60E+01	10.58	8.00E+00	.....
	35	1460.87	1455 -	1466	1460.73	4.68E+02	47.50	4.80E+01	K-40
M	36	1491.33	1490 -	1499	1491.18	8.24E+00	4.95	1.00E+00	.....
m	37	1496.08	1490 -	1499	1495.92	9.79E+00	8.97	8.22E+00	.....

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	38	1533.70	1531 -	1540	1533.53	6.70E+00	7.21	1.18E+01	.....
m	39	1537.70	1531 -	1540	1537.53	9.01E+00	11.14	9.80E+00	.....
M	40	1588.14	1581 -	1596	1587.95	1.36E+01	12.22	1.81E+01	.....
m	41	1593.42	1581 -	1596	1593.22	9.30E+00	10.64	1.49E+01	.....
	42	1660.84	1657 -	1663	1660.62	5.36E+00	6.34	3.29E+00	.....
M	43	1734.39	1725 -	1740	1734.15	8.61E+00	9.39	5.92E+00	.....
m	44	1738.22	1725 -	1740	1737.98	5.95E+00	7.50	6.04E+00	.....
	45	1755.54	1752 -	1758	1755.29	7.00E+00	5.29	0.00E+00	.....
	46	1764.44	1760 -	1768	1764.18	4.99E+01	15.11	4.12E+00	BI-214
	47	1846.66	1843 -	1849	1846.38	1.60E+01	8.00	0.00E+00	.....
	48	1872.55	1868 -	1876	1872.25	1.20E+01	6.93	0.00E+00	.....
	49	1898.44	1895 -	1900	1898.13	4.58E+00	5.74	2.83E+00	.....
	50	2102.88	2097 -	2106	2102.50	9.38E+00	8.54	5.25E+00	.....
	51	2203.62	2199 -	2206	2203.19	1.20E+01	9.80	8.00E+00	BI-214
	52	2613.92	2608 -	2617	2613.34	5.37E+01	15.78	4.63E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 8:16:38AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.71	1.03E+02	70.91	1.69E-02	1.78E-03
M	2	74.94	2.14E+02	71.51	2.75E-02	2.30E-03
m	3	77.44	3.53E+02	76.53	2.78E-02	2.38E-03
	4	92.92	2.61E+02	84.52	2.86E-02	2.64E-03
	5	186.10	1.23E+02	55.29	2.24E-02	2.03E-03
	6	226.86	4.12E+01	36.76	1.99E-02	1.73E-03
M	7	238.69	5.13E+02	53.49	1.92E-02	1.64E-03
m	8	242.03	1.60E+02	48.71	1.90E-02	1.61E-03
M	9	295.47	2.10E+02	40.40	1.67E-02	1.31E-03
m	10	299.90	3.01E+01	35.28	1.65E-02	1.30E-03
	11	338.39	8.55E+01	38.72	1.52E-02	1.22E-03
	12	352.02	3.28E+02	51.07	1.48E-02	1.19E-03
	13	462.72	3.35E+01	26.67	1.21E-02	1.04E-03
	14	510.60	1.18E+02	45.14	1.12E-02	9.91E-04
	15	521.62	2.86E+01	22.39	1.11E-02	9.79E-04

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	16	562.26	3.17E+01	32.80	1.05E-02	9.37E-04
	17	572.19	3.49E+01	34.24	1.03E-02	9.27E-04
	18	583.19	1.27E+02	42.97	1.02E-02	9.15E-04
	19	609.40	2.67E+02	51.50	9.83E-03	8.88E-04
	20	661.86	4.82E+01	26.58	9.21E-03	8.34E-04
	21	672.67	2.25E+01	24.83	9.10E-03	8.24E-04
	22	727.47	3.72E+01	29.64	8.55E-03	7.75E-04
	23	761.57	2.13E+01	22.21	8.25E-03	7.45E-04
	24	768.37	2.37E+01	22.21	8.19E-03	7.39E-04
	25	911.06	9.78E+01	36.60	7.15E-03	6.16E-04
M	26	964.62	1.98E+01	17.80	6.83E-03	5.88E-04
m	27	969.04	5.62E+01	25.53	6.80E-03	5.85E-04
	28	1120.71	6.88E+01	31.52	6.06E-03	5.06E-04
	29	1303.73	1.26E+01	10.82	5.40E-03	4.56E-04
	30	1345.10	1.55E+01	12.20	5.28E-03	4.48E-04
	31	1378.10	1.55E+01	14.47	5.18E-03	4.40E-04
M	32	1394.23	1.12E+01	12.37	5.14E-03	4.36E-04
m	33	1402.40	1.22E+01	11.00	5.12E-03	4.34E-04
	34	1409.06	1.60E+01	10.58	5.10E-03	4.32E-04
	35	1460.87	4.68E+02	47.50	4.97E-03	4.19E-04
M	36	1491.33	8.24E+00	4.95	4.90E-03	4.12E-04
m	37	1496.08	9.79E+00	8.97	4.89E-03	4.10E-04
M	38	1533.70	6.70E+00	7.21	4.81E-03	4.01E-04
m	39	1537.70	9.01E+00	11.14	4.80E-03	4.00E-04
M	40	1588.14	1.36E+01	12.22	4.69E-03	3.88E-04
m	41	1593.42	9.30E+00	10.64	4.68E-03	3.86E-04
	42	1660.84	5.36E+00	6.34	4.56E-03	3.69E-04
M	43	1734.39	8.61E+00	9.39	4.44E-03	3.51E-04
m	44	1738.22	5.95E+00	7.50	4.44E-03	3.50E-04
	45	1755.54	7.00E+00	5.29	4.41E-03	3.46E-04
	46	1764.44	4.99E+01	15.11	4.40E-03	3.44E-04
	47	1846.66	1.60E+01	8.00	4.28E-03	3.26E-04
	48	1872.55	1.20E+01	6.93	4.25E-03	3.26E-04
	49	1898.44	4.58E+00	5.74	4.22E-03	3.26E-04
	50	2102.88	9.38E+00	8.54	4.02E-03	3.26E-04
	51	2203.62	1.20E+01	9.80	3.95E-03	3.26E-04
	52	2613.92	5.37E+01	15.78	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 8:16:38AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.71	1.03E+02	70.91	4.02E+01	8.43E+00	6.29E+01	7.14E+01
M	2	74.94	2.14E+02	71.51			2.14E+02	7.15E+01
m	3	77.44	3.53E+02	76.53	1.60E+01	8.83E+00	3.38E+02	7.70E+01
	4	92.92	2.61E+02	84.52	1.39E+02	3.80E+01	1.22E+02	9.27E+01
	5	186.10	1.23E+02	55.29	6.47E+01	7.53E+00	5.81E+01	5.58E+01
	6	226.86	4.12E+01	36.76			4.12E+01	3.68E+01
M	7	238.69	5.13E+02	53.49	1.73E+01	6.30E+00	4.96E+02	5.39E+01
m	8	242.03	1.60E+02	48.71			1.60E+02	4.87E+01
M	9	295.47	2.10E+02	40.40	0.00E+00	0.00E+00	2.10E+02	4.04E+01
m	10	299.90	3.01E+01	35.28			3.01E+01	3.53E+01
	11	338.39	8.55E+01	38.72			8.55E+01	3.87E+01
	12	352.02	3.28E+02	51.07	9.78E+00	4.40E+00	3.18E+02	5.13E+01
	13	462.72	3.35E+01	26.67			3.35E+01	2.67E+01
	14	510.60	1.18E+02	45.14	7.82E+01	5.46E+00	3.93E+01	4.55E+01
	15	521.62	2.86E+01	22.39			2.86E+01	2.24E+01
	16	562.26	3.17E+01	32.80			3.17E+01	3.28E+01
	17	572.19	3.49E+01	34.24			3.49E+01	3.42E+01
	18	583.19	1.27E+02	42.97	4.53E+00	3.34E+00	1.22E+02	4.31E+01
	19	609.40	2.67E+02	51.50	8.81E+00	3.15E+00	2.59E+02	5.16E+01
	20	661.86	4.82E+01	26.58			4.82E+01	2.66E+01
	21	672.67	2.25E+01	24.83			2.25E+01	2.48E+01
	22	727.47	3.72E+01	29.64			3.72E+01	2.96E+01
	23	761.57	2.13E+01	22.21			2.13E+01	2.22E+01
	24	768.37	2.37E+01	22.21			2.37E+01	2.22E+01
	25	911.06	9.78E+01	36.60	4.29E+00	2.56E+00	9.35E+01	3.67E+01
M	26	964.62	1.98E+01	17.80			1.98E+01	1.78E+01
m	27	969.04	5.62E+01	25.53			5.62E+01	2.55E+01
	28	1120.71	6.88E+01	31.52			6.88E+01	3.15E+01
	29	1303.73	1.26E+01	10.82			1.26E+01	1.08E+01
	30	1345.10	1.55E+01	12.20			1.55E+01	1.22E+01
	31	1378.10	1.55E+01	14.47			1.55E+01	1.45E+01
M	32	1394.23	1.12E+01	12.37			1.12E+01	1.24E+01
m	33	1402.40	1.22E+01	11.00			1.22E+01	1.10E+01
	34	1409.06	1.60E+01	10.58			1.60E+01	1.06E+01
	35	1460.87	4.68E+02	47.50	5.85E+00	2.19E+00	4.62E+02	4.75E+01
M	36	1491.33	8.24E+00	4.95			8.24E+00	4.95E+00
m	37	1496.08	9.79E+00	8.97			9.79E+00	8.97E+00
M	38	1533.70	6.70E+00	7.21			6.70E+00	7.21E+00
m	39	1537.70	9.01E+00	11.14			9.01E+00	1.11E+01
M	40	1588.14	1.36E+01	12.22			1.36E+01	1.22E+01
m	41	1593.42	9.30E+00	10.64			9.30E+00	1.06E+01
	42	1660.84	5.36E+00	6.34			5.36E+00	6.34E+00
M	43	1734.39	8.61E+00	9.39			8.61E+00	9.39E+00
m	44	1738.22	5.95E+00	7.50			5.95E+00	7.50E+00
	45	1755.54	7.00E+00	5.29			7.00E+00	5.29E+00
	46	1764.44	4.99E+01	15.11			4.99E+01	1.51E+01
	47	1846.66	1.60E+01	8.00			1.60E+01	8.00E+00
	48	1872.55	1.20E+01	6.93			1.20E+01	6.93E+00
	49	1898.44	4.58E+00	5.74			4.58E+00	5.74E+00
	50	2102.88	9.38E+00	8.54			9.38E+00	8.54E+00
	51	2203.62	1.20E+01	9.80	1.36E-01	1.12E+00	1.19E+01	9.86E+00

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
52	2613.92	5.37E+01	15.78	5.15E+00	1.50E+00	4.85E+01	1.59E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 8:16:38AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.71	1.03E+02	70.91	4.02E+01	8.43E+00	6.29E+01	7.14E+01
M	2	74.94	2.14E+02	71.51			2.14E+02	7.15E+01
m	3	77.44	3.53E+02	76.53	1.60E+01	8.83E+00	3.38E+02	7.70E+01
	4	92.92	2.61E+02	84.52	1.39E+02	3.80E+01	1.22E+02	9.27E+01
	5	186.10	1.23E+02	55.29	6.47E+01	7.53E+00	5.81E+01	5.58E+01
	6	226.86	4.12E+01	36.76			4.12E+01	3.68E+01
M	7	238.69	5.13E+02	53.49	1.73E+01	6.30E+00	4.96E+02	5.39E+01
m	8	242.03	1.60E+02	48.71			1.60E+02	4.87E+01
M	9	295.47	2.10E+02	40.40	0.00E+00	0.00E+00	2.10E+02	4.04E+01
m	10	299.90	3.01E+01	35.28			3.01E+01	3.53E+01
	11	338.39	8.55E+01	38.72			8.55E+01	3.87E+01
	12	352.02	3.28E+02	51.07	9.78E+00	4.40E+00	3.18E+02	5.13E+01
	13	462.72	3.35E+01	26.67			3.35E+01	2.67E+01
	14	510.60	1.18E+02	45.14	7.82E+01	5.46E+00	3.93E+01	4.55E+01
	15	521.62	2.86E+01	22.39			2.86E+01	2.24E+01
	16	562.26	3.17E+01	32.80			3.17E+01	3.28E+01
	17	572.19	3.49E+01	34.24			3.49E+01	3.42E+01
	18	583.19	1.27E+02	42.97	4.53E+00	3.34E+00	1.22E+02	4.31E+01
	19	609.40	2.67E+02	51.50	8.81E+00	3.15E+00	2.59E+02	5.16E+01
	20	661.86	4.82E+01	26.58			4.82E+01	2.66E+01
	21	672.67	2.25E+01	24.83			2.25E+01	2.48E+01
	22	727.47	3.72E+01	29.64			3.72E+01	2.96E+01
	23	761.57	2.13E+01	22.21			2.13E+01	2.22E+01
	24	768.37	2.37E+01	22.21			2.37E+01	2.22E+01
	25	911.06	9.78E+01	36.60	4.29E+00	2.56E+00	9.35E+01	3.67E+01
M	26	964.62	1.98E+01	17.80			1.98E+01	1.78E+01
m	27	969.04	5.62E+01	25.53			5.62E+01	2.55E+01

00371

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	28	1120.71	6.88E+01	31.52			6.88E+01	3.15E+01
	29	1303.73	1.26E+01	10.82			1.26E+01	1.08E+01
	30	1345.10	1.55E+01	12.20			1.55E+01	1.22E+01
	31	1378.10	1.55E+01	14.47			1.55E+01	1.45E+01
M	32	1394.23	1.12E+01	12.37			1.12E+01	1.24E+01
m	33	1402.40	1.22E+01	11.00			1.22E+01	1.10E+01
	34	1409.06	1.60E+01	10.58			1.60E+01	1.06E+01
	35	1460.87	4.68E+02	47.50	5.85E+00	2.19E+00	4.62E+02	4.75E+01
M	36	1491.33	8.24E+00	4.95			8.24E+00	4.95E+00
m	37	1496.08	9.79E+00	8.97			9.79E+00	8.97E+00
M	38	1533.70	6.70E+00	7.21			6.70E+00	7.21E+00
m	39	1537.70	9.01E+00	11.14			9.01E+00	1.11E+01
M	40	1588.14	1.36E+01	12.22			1.36E+01	1.22E+01
m	41	1593.42	9.30E+00	10.64			9.30E+00	1.06E+01
	42	1660.84	5.36E+00	6.34			5.36E+00	6.34E+00
M	43	1734.39	8.61E+00	9.39			8.61E+00	9.39E+00
m	44	1738.22	5.95E+00	7.50			5.95E+00	7.50E+00
	45	1755.54	7.00E+00	5.29			7.00E+00	5.29E+00
	46	1764.44	4.99E+01	15.11			4.99E+01	1.51E+01
	47	1846.66	1.60E+01	8.00			1.60E+01	8.00E+00
	48	1872.55	1.20E+01	6.93			1.20E+01	6.93E+00
	49	1898.44	4.58E+00	5.74			4.58E+00	5.74E+00
	50	2102.88	9.38E+00	8.54			9.38E+00	8.54E+00
	51	2203.62	1.20E+01	9.80	1.36E-01	1.12E+00	1.19E+01	9.86E+00
	52	2613.92	5.37E+01	15.78	5.15E+00	1.50E+00	4.85E+01	1.59E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.999	1460.81	*	10.67	1.50E+01	2.03E+00
GA-67	0.566	93.31	*	35.70	1.87E+02	8.20E+02
		208.95		2.24		
		300.22	*	16.00	1.79E+02	8.01E+02
CS-137	0.993	661.65	*	85.12	1.06E-01	5.94E-02
TL-208	0.847	583.14	*	30.22	6.86E-01	2.50E-01

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.847	860.37		4.48		
		2614.66	*	35.85	6.16E-01	2.08E-01
PB-210	0.993	46.50	*	4.25	1.51E+00	1.73E+00
BI-212	0.754	727.17	*	11.80	6.36E-01	5.10E-01
		1620.62		2.75		
PB-212	0.999	238.63	*	44.60	9.98E-01	1.38E-01
		300.09	*	3.41	9.24E-01	1.08E+00
BI-214	0.990	609.31	*	46.30	9.81E-01	2.15E-01
		1120.29	*	15.10	1.30E+00	6.04E-01
		1764.49	*	15.80	1.24E+00	3.88E-01
		2204.22	*	4.98	1.04E+00	8.70E-01
PB-214	0.995	295.21	*	19.19	1.13E+00	2.35E-01
		351.92	*	37.19	1.00E+00	1.80E-01
RA-226	0.998	186.21	*	3.28	1.37E+00	2.83E+00
AC-228	1.000	338.32	*	11.40	8.53E-01	3.92E-01
		911.07	*	27.70	8.16E-01	3.28E-01
		969.11	*	16.60	8.59E-01	3.97E-01
AM-243	0.989	74.67	*	66.00	2.04E-01	7.02E-02

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 8:16:38AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.44	9.37539E-02	11.41		
	6	226.86	1.14470E-02	44.60		
m	8	242.03	4.45665E-02	15.18		
	13	462.72	9.30556E-03	39.81	Tol.	SB-125
	14	510.60	1.09257E-02	57.80		
	15	521.62	7.93488E-03	39.19		
	16	562.26	8.79240E-03	51.81		
	17	572.19	9.68082E-03	49.12		
	21	672.67	6.25000E-03	55.18		
	23	761.57	5.92279E-03	52.08		
	24	768.37	6.58663E-03	46.83	Sum	

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	26	964.62	5.51213E-03	44.86	Tol.	EU-152
	29	1303.73	3.49537E-03	42.98		
	30	1345.10	4.31818E-03	39.23		
	31	1378.10	4.29527E-03	46.77		
M	32	1394.23	3.11641E-03	55.13		
m	33	1402.40	3.40260E-03	44.90		
	34	1409.06	4.44444E-03	33.07		
M	36	1491.33	2.28804E-03	30.05		
m	37	1496.08	2.71851E-03	45.84		
M	38	1533.70	1.86021E-03	53.84		
m	39	1537.70	2.50354E-03	61.78		
M	40	1588.14	3.76853E-03	45.02		
m	41	1593.42	2.58330E-03	57.22		
	42	1660.84	1.48810E-03	59.21		
M	43	1734.39	2.39107E-03	54.57		
m	44	1738.22	1.65399E-03	62.98		
	45	1755.54	1.94444E-03	37.80	Sum	
	47	1846.66	4.44444E-03	25.00		
	48	1872.55	3.33333E-03	28.87		
	49	1898.44	1.27315E-03	62.67		
	50	2102.88	2.60417E-03	45.57	S-Esc	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.50E+01	2.03E+00
GA-67	0.56	93.31	*	35.70	1.87E+02	8.20E+02
		208.95		2.24		
		300.22	*	16.00	1.79E+02	8.01E+02
CS-137	0.99	661.65	*	85.12	1.06E-01	5.94E-02
TL-208	0.84	583.14	*	30.22	6.86E-01	2.50E-01
		860.37		4.48		

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.84	2614.66	*	35.85	6.16E-01	2.08E-01
PB-210	0.99	46.50	*	4.25	1.51E+00	1.73E+00
BI-212	0.75	727.17	*	11.80	6.36E-01	5.10E-01
		1620.62		2.75		
PB-212	0.99	238.63	*	44.60	9.98E-01	1.38E-01
		300.09	*	3.41	9.24E-01	1.08E+00
BI-214	0.99	609.31	*	46.30	9.81E-01	2.15E-01
		1120.29	*	15.10	1.30E+00	6.04E-01
		1764.49	*	15.80	1.24E+00	3.88E-01
		2204.22	*	4.98	1.04E+00	8.70E-01
PB-214	0.99	295.21	*	19.19	1.13E+00	2.35E-01
		351.92	*	37.19	1.00E+00	1.80E-01
RA-226	0.99	186.21	*	3.28	1.37E+00	2.83E+00
AC-228	1.00	338.32	*	11.40	8.53E-01	3.92E-01
		911.07	*	27.70	8.16E-01	3.28E-01
		969.11	*	16.60	8.59E-01	3.97E-01
AM-243	0.98	74.67	*	66.00	2.04E-01	7.02E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.999	1.50E+01	2.03E+00	
GA-67	0.566	1.23E+02	5.29E+02	
CS-137	0.993	1.06E-01	5.94E-02	
TL-208	0.847	6.45E-01	1.60E-01	
PB-210	0.993	1.51E+00	1.73E+00	
BI-212	0.754	6.36E-01	5.10E-01	
PB-212	0.999	9.87E-01	1.37E-01	
BI-214	0.990	1.06E+00	1.76E-01	
PB-214	0.995	1.05E+00	1.43E-01	
RA-226	0.998	1.37E+00	2.83E+00	

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
AC-228	1.000	8.39E-01	2.12E-01	
AM-243	0.989	2.04E-01	7.02E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-04

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 8:16:38AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.44	9.37539E-02	11.41		
	6	226.86	1.14470E-02	44.60		
m	8	242.03	4.45665E-02	15.18		
	13	462.72	9.30556E-03	39.81	Tol.	SB-125
	14	510.60	1.09257E-02	57.80		
	15	521.62	7.93488E-03	39.19		
	16	562.26	8.79240E-03	51.81		
	17	572.19	9.68082E-03	49.12		
	21	672.67	6.25000E-03	55.18		
	23	761.57	5.92279E-03	52.08		
	24	768.37	6.58663E-03	46.83	Sum	
M	26	964.62	5.51213E-03	44.86	Tol.	EU-152
	29	1303.73	3.49537E-03	42.98		
	30	1345.10	4.31818E-03	39.23		
	31	1378.10	4.29527E-03	46.77		
M	32	1394.23	3.11641E-03	55.13		
m	33	1402.40	3.40260E-03	44.90		
	34	1409.06	4.44444E-03	33.07		
M	36	1491.33	2.28804E-03	30.05		
m	37	1496.08	2.71851E-03	45.84		
M	38	1533.70	1.86021E-03	53.84		
m	39	1537.70	2.50354E-03	61.78		
M	40	1588.14	3.76853E-03	45.02		
m	41	1593.42	2.58330E-03	57.22		
	42	1660.84	1.48810E-03	59.21		
M	43	1734.39	2.39107E-03	54.57		
m	44	1738.22	1.65399E-03	62.98		
	45	1755.54	1.94444E-03	37.80	Sum	
	47	1846.66	4.44444E-03	25.00		
	48	1872.55	3.33333E-03	28.87		
	49	1898.44	1.27315E-03	62.67		
	50	2102.88	2.60417E-03	45.57	S-Esc	

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	2.36E-01	8.90E-01	8.90E-01
+	NA-22	1274.54		99.94	4.37E-03	8.80E-02	8.80E-02
+	NA-24	1368.53		99.99	1.12E+13	1.15E+14	1.57E+14
		2754.09		99.86	2.07E+12		1.15E+14
+	AL-26	1808.65		99.76	-7.99E-03	4.80E-02	4.80E-02
+	K-40	1460.81	*	10.67	1.50E+01	1.18E+00	1.18E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-2.30E-02	6.37E-02	6.37E-02
		78.34		96.00	1.47E-01		8.24E-02
+	SC-46	889.25		99.98	-6.18E-03	9.92E-02	9.92E-02
		1120.51		99.99	1.62E-01		1.68E-01
+	V-48	983.52		99.98	6.65E-02	3.08E-01	3.08E-01
		1312.10		97.50	1.02E-01		3.11E-01
+	CR-51	320.08		9.83	-1.01E+00	1.02E+00	1.02E+00
+	MN-54	834.83		99.97	-8.27E-02	6.92E-02	6.92E-02
+	CO-56	846.75		99.96	4.68E-03	9.93E-02	9.93E-02
		1037.75		14.03	2.84E-01		8.50E-01
		1238.25		67.00	0.00E+00		2.15E-01
		1771.40		15.51	5.05E-02		4.75E-01
		2598.48		16.90	-2.32E-01		3.31E-01
+	CO-57	122.06		85.51	-3.03E-03	5.55E-02	5.55E-02
		136.48		10.60	1.35E-01		4.79E-01
+	CO-58	810.76		99.40	-9.66E-02	8.01E-02	8.01E-02
+	FE-59	1099.22		56.50	-2.92E-02	2.16E-01	2.16E-01
		1291.56		43.20	-3.02E-02		3.36E-01
+	CO-60	1173.22		100.00	2.98E-03	6.81E-02	9.14E-02
		1332.49		100.00	1.14E-02		6.81E-02
+	ZN-65	1115.52		50.75	-4.69E-01	1.78E-01	1.78E-01
+	GA-67	93.31	*	35.70	1.87E+02	2.32E+02	2.32E+02
		208.95		2.24	1.40E+03		2.27E+03
		300.22	*	16.00	1.79E+02		5.17E+02
+	SE-75	121.11		16.70	-4.26E-02	9.34E-02	3.20E-01

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Analysis Report for 1507182-04

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00	59.20	-1.47E-02	9.34E-02	9.34E-02
		264.65	59.80	-2.81E-03		9.79E-02
		279.53	25.20	-2.00E-02		2.37E-01
		400.65	11.40	-1.62E-01		5.45E-01
+	RB-82	776.52	13.00	-2.65E-01	1.16E+00	1.16E+00
+	RB-83	520.41	46.00	1.10E-01	1.77E-01	1.77E-01
		529.64	30.30	1.02E-01		2.57E-01
		552.65	16.40	2.15E-02		5.06E-01
+	KR-85	513.99	0.43	1.78E+01	2.06E+01	2.06E+01
+	SR-85	513.99	99.27	1.09E-01	1.26E-01	1.26E-01
+	Y-88	898.02	93.40	2.83E-02	5.98E-02	1.05E-01
		1836.01	99.38	2.49E-03		5.98E-02
+	NB-93M	16.57	9.43	-1.12E+02	6.75E+01	6.75E+01
+	NB-94	702.63	100.00	1.23E-03	7.04E-02	7.61E-02
		871.10	100.00	1.60E-02		7.04E-02
+	NB-95	765.79	99.81	4.87E-02	1.64E-01	1.64E-01
+	NB-95M	235.69	25.00	-7.59E+02	1.08E+02	1.08E+02
+	ZR-95	724.18	43.70	-5.43E-03	1.81E-01	2.62E-01
		756.72	55.30	-2.80E-02		1.81E-01
+	MO-99	181.06	6.20	4.20E+02	1.81E+03	2.66E+03
		739.58	12.80	6.64E+02		1.81E+03
		778.00	4.50	-2.76E+03		4.47E+03
+	RU-103	497.08	89.00	1.96E-02	1.29E-01	1.29E-01
+	RU-106	621.84	9.80	-2.11E-01	7.20E-01	7.20E-01
+	AG-108M	433.93	89.90	-2.56E-02	7.09E-02	7.09E-02
		614.37	90.40	8.85E-03		7.34E-02
		722.95	90.50	7.00E-03		8.12E-02
+	CD-109	88.03	3.72	-4.86E-01	1.73E+00	1.73E+00
+	AG-110M	657.75	93.14	-3.06E-02	8.14E-02	8.14E-02
		677.61	10.53	-1.54E-01		6.22E-01
		706.67	16.46	-1.90E-01		4.66E-01
		763.93	21.98	-3.97E-01		3.95E-01
		884.67	71.63	-1.07E-02		1.12E-01
		1384.27	23.94	8.03E-02		3.51E-01
+	CD-113M	263.70	0.02	-3.09E+01	2.09E+02	2.09E+02
+	SN-113	255.12	1.93	-5.01E-01	9.00E-02	2.98E+00
		391.69	64.90	-1.67E-02		9.00E-02
+	TE123M	159.00	84.10	-1.70E-02	6.53E-02	6.53E-02
+	SB-124	602.71	97.87	-9.71E-03	1.06E-01	1.06E-01
		645.85	7.26	-1.73E-01		1.27E+00
		722.78	11.10	8.25E-02		9.57E-01
		1691.02	49.00	1.58E-02		2.34E-01
+	I-125	35.49	6.49	4.41E-01	3.15E+00	3.15E+00
+	SB-125	176.33	6.89	-2.76E-01	2.20E-01	7.33E-01
		427.89	29.33	5.72E-02		2.20E-01
		463.38	10.35	1.51E-01		6.43E-01
		600.56	17.80	-1.45E-01		3.77E-01
		635.90	11.32	-1.15E-01		5.21E-01

Analysis Report for 1507182-04

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		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		SB-126	414.70		83.30	-8.52E-02	4.22E-01	4.25E-01
			666.33		99.60	-2.06E-02		4.22E-01
			695.00		99.60	9.37E-02		4.68E-01
			720.50		53.80	-2.23E-02		8.31E-01
+		SN-126	87.57		37.00	-4.66E-02	1.66E-01	1.66E-01
+		SB-127	473.00		25.00	-4.18E+01	6.15E+01	7.47E+01
			685.20		35.70	6.91E+00		6.15E+01
			783.80		14.70	1.44E+02		1.72E+02
+		I-129	29.78		57.00	-1.55E-01	4.71E-01	4.71E-01
			33.60		13.20	-4.76E-01		1.26E+00
			39.58		7.52	-2.72E-01		1.39E+00
+		I-131	284.30		6.05	1.17E+00	9.80E-01	1.31E+01
			364.48		81.20	3.52E-01		9.80E-01
			636.97		7.26	-2.64E+00		1.27E+01
			722.89		1.80	5.57E+00		6.47E+01
+		TE-132	49.72		13.10	-9.12E+01	5.19E+01	5.04E+02
			228.16		88.00	4.25E+01		5.19E+01
+		BA-133	81.00		33.00	-8.27E-01	7.54E-02	1.66E-01
			302.84		17.80	-1.45E-02		3.01E-01
			356.01		60.00	-2.42E-02		7.54E-02
+		I-133	529.87		86.30	3.72E+09	9.41E+09	9.41E+09
+		XE-133	81.00		38.00	-4.94E+01	9.91E+00	9.91E+00
+		CS-134	563.23		8.38	1.64E-01	8.59E-02	8.12E-01
			569.32		15.43	9.37E-02		4.69E-01
			604.70		97.60	2.29E-03		9.29E-02
			795.84		85.40	1.87E-02		8.59E-02
			801.93		8.73	-5.62E-01		7.88E-01
+		CS-135	268.24		16.00	3.12E-01	3.65E-01	3.65E-01
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	1.09E+00	3.23E-01	3.37E+00
			163.89		4.61	2.87E+00		5.81E+00
			176.55		13.56	-7.42E-01		1.97E+00
			273.65		12.66	-1.76E+00		2.10E+00
			340.57		48.50	1.45E-01		7.18E-01
			818.50		99.70	-1.54E-01		3.23E-01
			1048.07		79.60	-2.79E-02		4.76E-01
			1235.34		19.70	-1.69E+00		2.80E+00
+		CS-137	661.65	*	85.12	1.06E-01	8.82E-02	8.82E-02
+		LA-138	788.74		34.00	-2.60E-02	1.17E-01	2.08E-01
			1435.80		66.00	3.90E-02		1.17E-01
+		CE-139	165.85		80.35	-2.01E-02	6.95E-02	6.95E-02
+		BA-140	162.64		6.70	6.23E-01	1.50E+00	4.08E+00
			304.84		4.50	1.27E-01		6.79E+00
			423.70		3.20	2.71E+00		1.12E+01
			437.55		2.00	-1.29E+00		1.92E+01
			537.32		25.00	2.36E-01		1.50E+00
+		LA-140	328.77		20.50	1.84E-01	4.41E-01	1.64E+00

Analysis Report for 1507182-04

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03	45.50	2.42E-01	4.41E-01	7.59E-01
		815.85	23.50	-2.91E-01		1.44E+00
		1596.49	95.49	5.05E-02		4.41E-01
+	CE-141	145.44	48.40	-2.91E-03	1.93E-01	1.93E-01
+	CE-143	57.36	11.80	-1.83E+06	2.05E+06	5.62E+06
		293.26	42.00	4.11E+06		2.05E+06
		664.55	5.20	-6.81E+05		1.71E+07
+	CE-144	133.54	10.80	1.59E-01	4.72E-01	4.72E-01
+	PM-144	476.78	42.00	-2.93E-02	6.88E-02	1.51E-01
		618.01	98.60	-1.96E-03		6.88E-02
		696.49	99.49	3.44E-02		8.62E-02
+	PM-145	36.85	21.70	-2.16E-01	3.08E-01	5.70E-01
		37.36	39.70	6.15E-03		3.08E-01
		42.30	15.10	-1.74E-02		6.00E-01
		72.40	2.31	-4.44E+00		3.12E+00
+	PM-146	453.90	39.94	1.30E-02	1.58E-01	1.58E-01
		735.90	14.01	2.34E-01		5.28E-01
		747.13	13.10	2.03E-02		5.34E-01
+	ND-147	91.11	28.90	-2.17E+00	1.72E+00	1.72E+00
		531.02	13.10	-1.07E+00		3.40E+00
+	PM-149	285.90	3.10	-1.46E+04	3.66E+04	3.66E+04
+	EU-152	121.78	20.50	-1.17E-02	2.14E-01	2.14E-01
		244.69	5.40	1.07E-01		1.09E+00
		344.27	19.13	-5.45E-02		2.41E-01
		778.89	9.20	-4.05E-01		6.94E-01
		964.01	10.40	-1.69E+00		8.11E-01
		1085.78	7.22	-2.29E-01		9.85E-01
		1112.02	9.60	2.08E-01		8.22E-01
		1407.95	14.94	4.49E-02		5.11E-01
+	GD-153	97.43	31.30	3.20E-02	1.66E-01	1.66E-01
		103.18	22.20	-1.47E-02		2.25E-01
+	EU-154	123.07	40.50	-4.90E-02	1.07E-01	1.07E-01
		723.30	19.70	3.24E-02		3.76E-01
		873.19	11.50	2.35E-01		6.42E-01
		996.32	10.30	-4.79E-01		6.70E-01
		1004.76	17.90	-1.47E-01		4.38E-01
		1274.45	35.50	1.21E-02		2.44E-01
+	EU-155	86.50	30.90	8.71E-02	2.05E-01	2.05E-01
		105.30	20.70	8.16E-02		2.26E-01
+	EU-156	811.77	10.40	-9.99E-01	2.54E+00	2.54E+00
		1153.47	7.20	1.05E+00		5.86E+00
		1230.71	8.90	3.48E-01		5.19E+00
+	HO-166M	184.41	72.60	1.31E-01	8.80E-02	8.80E-02
		280.45	29.60	9.60E-03		1.68E-01
		410.94	11.10	-3.17E-01		5.25E-01
		711.69	54.10	-1.69E-02		1.27E-01
+	TM-171	66.72	0.14	-9.82E+01	4.40E+01	4.40E+01
+	HF-172	81.75	4.52	-1.70E+00	4.11E-01	1.25E+00
		125.81	11.30	-3.41E-01		4.11E-01

Analysis Report for 1507182-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	1.65E+00	3.14E+00	6.81E+00
		810.06		16.63	-2.73E+00		1.09E+01
		912.12		15.25	4.54E+01		2.51E+01
		1093.66		62.50	-3.20E-01		3.14E+00
+	LU-173	100.72		5.24	3.36E-01	2.81E-01	9.52E-01
		272.11		21.20	1.59E-01		2.81E-01
+	HF-175	343.40		84.00	-1.46E-02	7.98E-02	7.98E-02
+	LU-176	88.34		13.30	2.28E-01	5.85E-02	4.68E-01
		201.83		86.00	4.71E-02		6.48E-02
		306.78		94.00	2.67E-02		5.85E-02
+	TA-182	67.75		41.20	-6.39E-02	1.77E-01	1.77E-01
		1121.30		34.90	5.06E-01		4.52E-01
		1189.05		16.23	-1.02E-01		6.00E-01
		1221.41		26.98	-8.63E-02		4.14E-01
		1231.02		11.44	7.62E-02		1.14E+00
+	IR-192	308.46		29.68	1.23E-01	1.62E-01	2.37E-01
		468.07		48.10	6.66E-03		1.62E-01
+	HG-203	279.19		77.30	-3.48E-02	1.01E-01	1.01E-01
+	BI-207	569.67		97.72	1.71E-02	7.17E-02	7.17E-02
		1063.62		74.90	-5.24E-03		1.03E-01
+	TL-208	583.14	*	30.22	6.86E-01	1.92E-01	3.57E-01
		860.37		4.48	3.60E-01		1.80E+00
		2614.66	*	35.85	6.16E-01		1.92E-01
+	BI-210M	262.00		45.00	-2.02E-02	1.07E-01	1.07E-01
		300.00		23.00	-5.48E-01		2.35E-01
+	PB-210	46.50	*	4.25	1.51E+00	2.82E+00	2.82E+00
+	PB-211	404.84		2.90	4.62E-01	1.87E+00	1.87E+00
		831.96		2.90	1.09E+00		2.52E+00
+	BI-212	727.17	*	11.80	6.36E-01	8.06E-01	8.06E-01
		1620.62		2.75	3.05E-01		2.15E+00
+	PB-212	238.63	*	44.60	9.98E-01	1.99E-01	1.99E-01
		300.09	*	3.41	9.24E-01		2.67E+00
+	BI-214	609.31	*	46.30	9.81E-01	2.62E-01	2.62E-01
		1120.29	*	15.10	1.30E+00		8.82E-01
		1764.49	*	15.80	1.24E+00		2.86E-01
		2204.22	*	4.98	1.04E+00		1.26E+00
+	PB-214	295.21	*	19.19	1.13E+00	1.99E-01	4.65E-01
		351.92	*	37.19	1.00E+00		1.99E-01
+	RN-219	401.80		6.50	-5.84E-01	7.48E-01	7.48E-01
+	RA-223	323.87		3.88	-1.92E-02	1.37E+00	1.37E+00
+	RA-224	240.98		3.95	1.21E+01	2.83E+00	2.83E+00
+	RA-225	40.00		31.00	-2.88E-01	1.47E+00	1.47E+00
+	RA-226	186.21	*	3.28	1.37E+00	2.14E+00	2.14E+00
+	TH-227	50.10		8.40	-1.54E-01	5.00E-01	8.51E-01
		236.00		11.50	-3.52E+00		5.00E-01
		256.20		6.30	1.35E-01		7.92E-01
+	AC-228	338.32	*	11.40	8.53E-01	4.71E-01	5.85E-01
		911.07	*	27.70	8.16E-01		4.71E-01

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	8.59E-01	4.71E-01	7.33E-01
+	TH-230	48.44		16.90	2.93E-01	4.95E-01	4.95E-01
		62.85		4.60	2.00E+00		1.59E+00
		67.67		0.37	-5.87E+00		1.63E+01
+	PA-231	283.67		1.60	1.44E+00	2.32E+00	3.23E+00
		302.67		2.30	-1.12E-01		2.32E+00
+	TH-231	25.64		14.70	-2.28E+00	9.15E-01	5.01E+00
		84.21		6.40	-5.54E-01		9.15E-01
+	PA-233	311.98		38.60	-1.59E-01	2.66E-01	2.66E-01
+	PA-234	131.20		20.40	3.06E-03	2.36E-01	2.36E-01
		733.99		8.80	-4.57E-01		7.51E-01
		946.00		12.00	1.50E-01		6.43E-01
+	PA-234M	1001.03		0.92	1.07E-01	8.33E+00	8.33E+00
+	TH-234	63.29		3.80	2.47E+00	1.92E+00	1.92E+00
+	U-235	143.76		10.50	1.55E-01	4.43E-01	4.43E-01
		163.35		4.70	5.20E-01		1.05E+00
		205.31		4.70	-3.42E-01		1.09E+00
+	NP-237	86.50		12.60	2.11E-01	4.98E-01	4.98E-01
+	NP-239	106.10		22.70	9.18E+02	2.54E+03	2.54E+03
		228.18		10.70	4.77E+03		5.84E+03
		277.60		14.10	7.04E+02		4.40E+03
+	AM-241	59.54		35.90	-2.88E-01	1.77E-01	1.77E-01
+	AM-243	74.67	*	66.00	2.04E-01	1.82E-01	1.82E-01
+	CM-243	209.75		3.29	5.55E-01	3.56E-01	1.69E+00
		228.14		10.60	3.87E-01		4.73E-01
		277.60		14.00	5.70E-02		3.56E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	8.90E-01	8.90E-01	2.36E-01	4.16E-01
	NA-22	1274.54		99.94	8.80E-02	8.80E-02	4.37E-03	3.96E-02
	NA-24	1368.53		99.99	1.57E+14	1.15E+14	1.12E+13	6.62E+13
		2754.09		99.86	1.15E+14		2.07E+12	4.08E+13
	AL-26	1808.65		99.76	4.80E-02	4.80E-02	-7.99E-03	1.86E-02
+	K-40	1460.81	*	10.67	1.18E+00	1.18E+00	1.50E+01	5.44E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.37E-02	6.37E-02	-2.30E-02	3.09E-02
		78.34		96.00	8.24E-02		1.47E-01	4.03E-02
	SC-46	889.25		99.98	9.92E-02	9.92E-02	-6.18E-03	4.54E-02
		1120.51		99.99	1.68E-01		1.62E-01	7.91E-02
	V-48	983.52		99.98	3.08E-01	3.08E-01	6.65E-02	1.40E-01
		1312.10		97.50	3.11E-01		1.02E-01	1.38E-01
	CR-51	320.08		9.83	1.02E+00	1.02E+00	-1.01E+00	4.76E-01
	MN-54	834.83		99.97	6.92E-02	6.92E-02	-8.27E-02	3.13E-02
	CO-56	846.75		99.96	9.93E-02	9.93E-02	4.68E-03	4.55E-02
		1037.75		14.03	8.50E-01		2.84E-01	3.91E-01
		1238.25		67.00	2.15E-01		0.00E+00	9.91E-02
		1771.40		15.51	4.75E-01		5.05E-02	1.92E-01
		2598.48		16.90	3.31E-01		-2.32E-01	1.17E-01
	CO-57	122.06		85.51	5.55E-02	5.55E-02	-3.03E-03	2.67E-02
		136.48		10.60	4.79E-01		1.35E-01	2.30E-01
	CO-58	810.76		99.40	8.01E-02	8.01E-02	-9.66E-02	3.59E-02
	FE-59	1099.22		56.50	2.16E-01	2.16E-01	-2.92E-02	9.68E-02
		1291.56		43.20	3.36E-01		-3.02E-02	1.51E-01
	CO-60	1173.22		100.00	9.14E-02	6.81E-02	2.98E-03	4.17E-02
		1332.49		100.00	6.81E-02		1.14E-02	2.96E-02
	ZN-65	1115.52		50.75	1.78E-01	1.78E-01	-4.69E-01	8.06E-02
+	GA-67	93.31	*	35.70	2.32E+02	2.32E+02	1.87E+02	1.14E+02
		208.95		2.24	2.27E+03		1.40E+03	1.09E+03
		300.22	*	16.00	5.17E+02		1.79E+02	2.50E+02
	SE-75	121.11		16.70	3.20E-01	9.34E-02	-4.26E-02	1.54E-01
		136.00		59.20	9.34E-02		-1.47E-02	4.49E-02
		264.65		59.80	9.79E-02		-2.81E-03	4.63E-02
		279.53		25.20	2.37E-01		-2.00E-02	1.12E-01
		400.65		11.40	5.45E-01		-1.62E-01	2.54E-01
	RB-82	776.52		13.00	1.16E+00	1.16E+00	-2.65E-01	5.29E-01
	RB-83	520.41		46.00	1.77E-01	1.77E-01	1.10E-01	8.28E-02
		529.64		30.30	2.57E-01		1.02E-01	1.19E-01
		552.65		16.40	5.06E-01		2.15E-02	2.36E-01
	KR-85	513.99		0.43	2.06E+01	2.06E+01	1.78E+01	9.84E+00
	SR-85	513.99		99.27	1.26E-01	1.26E-01	1.09E-01	6.02E-02
	Y-88	898.02		93.40	1.05E-01	5.98E-02	2.83E-02	4.80E-02
		1836.01		99.38	5.98E-02		2.49E-03	2.32E-02
	NB-93M	16.57		9.43	6.75E+01	6.75E+01	-1.12E+02	3.07E+01
	NB-94	702.63		100.00	7.61E-02	7.04E-02	1.23E-03	3.54E-02
		871.10		100.00	7.04E-02		1.60E-02	3.21E-02
	NB-95	765.79		99.81	1.64E-01	1.64E-01	4.87E-02	7.67E-02
	NB-95M	235.69		25.00	1.08E+02	1.08E+02	-7.59E+02	5.17E+01
	ZR-95	724.18		43.70	2.62E-01	1.81E-01	-5.43E-03	1.22E-01
		756.72		55.30	1.81E-01		-2.80E-02	8.31E-02

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
MO-99	181.06	6.20	2.66E+03	1.81E+03	4.20E+02	1.27E+03
	739.58	12.80	1.81E+03		6.64E+02	8.35E+02
	778.00	4.50	4.47E+03		-2.76E+03	2.03E+03
RU-103	497.08	89.00	1.29E-01	1.29E-01	1.96E-02	6.07E-02
RU-106	621.84	9.80	7.20E-01	7.20E-01	-2.11E-01	3.34E-01
AG-108M	433.93	89.90	7.09E-02	7.09E-02	-2.56E-02	3.34E-02
	614.37	90.40	7.34E-02		8.85E-03	3.41E-02
	722.95	90.50	8.12E-02		7.00E-03	3.76E-02
CD-109	88.03	3.72	1.73E+00	1.73E+00	-4.86E-01	8.43E-01
AG-110M	657.75	93.14	8.14E-02	8.14E-02	-3.06E-02	3.78E-02
	677.61	10.53	6.22E-01		-1.54E-01	2.84E-01
	706.67	16.46	4.66E-01		-1.90E-01	2.15E-01
	763.93	21.98	3.95E-01		-3.97E-01	1.83E-01
	884.67	71.63	1.12E-01		-1.07E-02	5.09E-02
	1384.27	23.94	3.51E-01		8.03E-02	1.55E-01
CD-113M	263.70	0.02	2.09E+02	2.09E+02	-3.09E+01	9.89E+01
SN-113	255.12	1.93	2.98E+00	9.00E-02	-5.01E-01	1.41E+00
	391.69	64.90	9.00E-02		-1.67E-02	4.18E-02
TE123M	159.00	84.10	6.53E-02	6.53E-02	-1.70E-02	3.13E-02
SB-124	602.71	97.87	1.06E-01	1.06E-01	-9.71E-03	4.97E-02
	645.85	7.26	1.27E+00		-1.73E-01	5.84E-01
	722.78	11.10	9.57E-01		8.25E-02	4.43E-01
	1691.02	49.00	2.34E-01		1.58E-02	1.02E-01
I-125	35.49	6.49	3.15E+00	3.15E+00	4.41E-01	1.51E+00
SB-125	176.33	6.89	7.33E-01	2.20E-01	-2.76E-01	3.51E-01
	427.89	29.33	2.20E-01		5.72E-02	1.04E-01
	463.38	10.35	6.43E-01		1.51E-01	3.02E-01
	600.56	17.80	3.77E-01		-1.45E-01	1.75E-01
	635.90	11.32	5.21E-01		-1.15E-01	2.38E-01
SB-126	414.70	83.30	4.25E-01	4.22E-01	-8.52E-02	2.00E-01
	666.33	99.60	4.22E-01		-2.06E-02	1.96E-01
	695.00	99.60	4.68E-01		9.37E-02	2.18E-01
	720.50	53.80	8.31E-01		-2.23E-02	3.85E-01
SN-126	87.57	37.00	1.66E-01	1.66E-01	-4.66E-02	8.08E-02
SB-127	473.00	25.00	7.47E+01	6.15E+01	-4.18E+01	3.48E+01
	685.20	35.70	6.15E+01		6.91E+00	2.84E+01
	783.80	14.70	1.72E+02		1.44E+02	7.98E+01
I-129	29.78	57.00	4.71E-01	4.71E-01	-1.55E-01	2.26E-01
	33.60	13.20	1.26E+00		-4.76E-01	6.05E-01
	39.58	7.52	1.39E+00		-2.72E-01	6.68E-01
I-131	284.30	6.05	1.31E+01	9.80E-01	1.17E+00	6.17E+00
	364.48	81.20	9.80E-01		3.52E-01	4.58E-01
	636.97	7.26	1.27E+01		-2.64E+00	5.84E+00
	722.89	1.80	6.47E+01		5.57E+00	2.99E+01
TE-132	49.72	13.10	5.04E+02	5.19E+01	-9.12E+01	2.43E+02
	228.16	88.00	5.19E+01		4.25E+01	2.47E+01
BA-133	81.00	33.00	1.66E-01	7.54E-02	-8.27E-01	8.05E-02
	302.84	17.80	3.01E-01		-1.45E-02	1.43E-01
	356.01	60.00	7.54E-02		-2.42E-02	3.50E-02
I-133	529.87	86.30	9.41E+09	9.41E+09	3.72E+09	4.37E+09
XE-133	81.00	38.00	9.91E+00	9.91E+00	-4.94E+01	4.80E+00
CS-134	563.23	8.38	8.12E-01	8.59E-02	1.64E-01	3.78E-01
	569.32	15.43	4.69E-01		9.37E-02	2.20E-01

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-134	604.70		97.60	9.29E-02	8.59E-02	2.29E-03	4.39E-02
		795.84		85.40	8.59E-02		1.87E-02	3.94E-02
		801.93		8.73	7.88E-01		-5.62E-01	3.59E-01
	CS-135	268.24		16.00	3.65E-01	3.65E-01	3.12E-01	1.74E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.37E+00	3.23E-01	1.09E+00	1.62E+00
		163.89		4.61	5.81E+00		2.87E+00	2.79E+00
		176.55		13.56	1.97E+00		-7.42E-01	9.45E-01
		273.65		12.66	2.10E+00		-1.76E+00	9.91E-01
		340.57		48.50	7.18E-01		1.45E-01	3.42E-01
		818.50		99.70	3.23E-01		-1.54E-01	1.45E-01
		1048.07		79.60	4.76E-01		-2.79E-02	2.13E-01
		1235.34		19.70	2.80E+00		-1.69E+00	1.29E+00
+	CS-137	661.65	*	85.12	8.82E-02	8.82E-02	1.06E-01	4.11E-02
	LA-138	788.74		34.00	2.08E-01	1.17E-01	-2.60E-02	9.54E-02
		1435.80		66.00	1.17E-01		3.90E-02	5.13E-02
	CE-139	165.85		80.35	6.95E-02	6.95E-02	-2.01E-02	3.33E-02
	BA-140	162.64		6.70	4.08E+00	1.50E+00	6.23E-01	1.96E+00
		304.84		4.50	6.79E+00		1.27E-01	3.21E+00
		423.70		3.20	1.12E+01		2.71E+00	5.29E+00
		437.55		2.00	1.92E+01		-1.29E+00	9.08E+00
		537.32		25.00	1.50E+00		2.36E-01	7.00E-01
	LA-140	328.77		20.50	1.64E+00	4.41E-01	1.84E-01	7.77E-01
		487.03		45.50	7.59E-01		2.42E-01	3.55E-01
		815.85		23.50	1.44E+00		-2.91E-01	6.46E-01
		1596.49		95.49	4.41E-01		5.05E-02	1.91E-01
	CE-141	145.44		48.40	1.93E-01	1.93E-01	-2.91E-03	9.25E-02
	CE-143	57.36		11.80	5.62E+06	2.05E+06	-1.83E+06	2.72E+06
		293.26		42.00	2.05E+06		4.11E+06	9.89E+05
		664.55		5.20	1.71E+07		-6.81E+05	8.03E+06
	CE-144	133.54		10.80	4.72E-01	4.72E-01	1.59E-01	2.27E-01
	PM-144	476.78		42.00	1.51E-01	6.88E-02	-2.93E-02	7.03E-02
		618.01		98.60	6.88E-02		-1.96E-03	3.18E-02
		696.49		99.49	8.62E-02		3.44E-02	4.03E-02
	PM-145	36.85		21.70	5.70E-01	3.08E-01	-2.16E-01	2.74E-01
		37.36		39.70	3.08E-01		6.15E-03	1.48E-01
		42.30		15.10	6.00E-01		-1.74E-02	2.89E-01
		72.40		2.31	3.12E+00		-4.44E+00	1.52E+00
	PM-146	453.90		39.94	1.58E-01	1.58E-01	1.30E-02	7.40E-02
		735.90		14.01	5.28E-01		2.34E-01	2.44E-01
		747.13		13.10	5.34E-01		2.03E-02	2.46E-01
	ND-147	91.11		28.90	1.72E+00	1.72E+00	-2.17E+00	8.37E-01
		531.02		13.10	3.40E+00		-1.07E+00	1.57E+00
	PM-149	285.90		3.10	3.66E+04	3.66E+04	-1.46E+04	1.73E+04
	EU-152	121.78		20.50	2.14E-01	2.14E-01	-1.17E-02	1.03E-01
		244.69		5.40	1.09E+00		1.07E-01	5.20E-01
		344.27		19.13	2.41E-01		-5.45E-02	1.13E-01
		778.89		9.20	6.94E-01		-4.05E-01	3.16E-01
		964.01		10.40	8.11E-01		-1.69E+00	3.72E-01
		1085.78		7.22	9.85E-01		-2.29E-01	4.40E-01
		1112.02		9.60	8.22E-01		2.08E-01	3.71E-01

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	5.11E-01	2.14E-01	4.49E-02	2.25E-01
	GD-153	97.43		31.30	1.66E-01	1.66E-01	3.20E-02	8.02E-02
		103.18		22.20	2.25E-01		-1.47E-02	1.08E-01
	EU-154	123.07		40.50	1.07E-01	1.07E-01	-4.90E-02	5.16E-02
		723.30		19.70	3.76E-01		3.24E-02	1.74E-01
		873.19		11.50	6.42E-01		2.35E-01	2.93E-01
		996.32		10.30	6.70E-01		-4.79E-01	3.01E-01
		1004.76		17.90	4.38E-01		-1.47E-01	1.99E-01
		1274.45		35.50	2.44E-01		1.21E-02	1.10E-01
	EU-155	86.50		30.90	2.05E-01	2.05E-01	8.71E-02	1.00E-01
		105.30		20.70	2.26E-01		8.16E-02	1.09E-01
	EU-156	811.77		10.40	2.54E+00	2.54E+00	-9.99E-01	1.14E+00
		1153.47		7.20	5.86E+00		1.05E+00	2.69E+00
		1230.71		8.90	5.19E+00		3.48E-01	2.39E+00
	HO-166M	184.41		72.60	8.80E-02	8.80E-02	1.31E-01	4.26E-02
		280.45		29.60	1.68E-01		9.60E-03	7.93E-02
		410.94		11.10	5.25E-01		-3.17E-01	2.47E-01
		711.69		54.10	1.27E-01		-1.69E-02	5.85E-02
	TM-171	66.72		0.14	4.40E+01	4.40E+01	-9.82E+01	2.13E+01
	HF-172	81.75		4.52	1.25E+00	4.11E-01	-1.70E+00	6.07E-01
		125.81		11.30	4.11E-01		-3.41E-01	1.97E-01
	LU-172	181.53		20.60	6.81E+00	3.14E+00	1.65E+00	3.27E+00
		810.06		16.63	1.09E+01		-2.73E+00	4.94E+00
		912.12		15.25	2.51E+01		4.54E+01	1.20E+01
		1093.66		62.50	3.14E+00		-3.20E-01	1.40E+00
	LU-173	100.72		5.24	9.52E-01	2.81E-01	3.36E-01	4.60E-01
		272.11		21.20	2.81E-01		1.59E-01	1.34E-01
	HF-175	343.40		84.00	7.98E-02	7.98E-02	-1.46E-02	3.73E-02
	LU-176	88.34		13.30	4.68E-01	5.85E-02	2.28E-01	2.28E-01
		201.83		86.00	6.48E-02		4.71E-02	3.11E-02
		306.78		94.00	5.85E-02		2.67E-02	2.77E-02
	TA-182	67.75		41.20	1.77E-01	1.77E-01	-6.39E-02	8.61E-02
		1121.30		34.90	4.52E-01		5.06E-01	2.13E-01
		1189.05		16.23	6.00E-01		-1.02E-01	2.70E-01
		1221.41		26.98	4.14E-01		-8.63E-02	1.88E-01
		1231.02		11.44	1.14E+00		7.62E-02	5.24E-01
	IR-192	308.46		29.68	2.37E-01	1.62E-01	1.23E-01	1.12E-01
		468.07		48.10	1.62E-01		6.66E-03	7.57E-02
	HG-203	279.19		77.30	1.01E-01	1.01E-01	-3.48E-02	4.76E-02
	BI-207	569.67		97.72	7.17E-02	7.17E-02	1.71E-02	3.35E-02
		1063.62		74.90	1.03E-01		-5.24E-03	4.66E-02
+	TL-208	583.14	*	30.22	3.57E-01	1.92E-01	6.86E-01	1.71E-01
		860.37		4.48	1.80E+00		3.60E-01	8.30E-01
		2614.66	*	35.85	1.92E-01		6.16E-01	7.89E-02
	BI-210M	262.00		45.00	1.07E-01	1.07E-01	-2.02E-02	5.06E-02
		300.00		23.00	2.35E-01		-5.48E-01	1.11E-01
+	PB-210	46.50	*	4.25	2.82E+00	2.82E+00	1.51E+00	1.38E+00
	PB-211	404.84		2.90	1.87E+00	1.87E+00	4.62E-01	8.74E-01
		831.96		2.90	2.52E+00		1.09E+00	1.15E+00
+	BI-212	727.17	*	11.80	8.06E-01	8.06E-01	6.36E-01	3.80E-01
		1620.62		2.75	2.15E+00		3.05E-01	8.92E-01
+	PB-212	238.63	*	44.60	1.99E-01	1.99E-01	9.98E-01	9.67E-02
		300.09	*	3.41	2.67E+00		9.24E-01	1.29E+00

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Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	2.62E-01	2.62E-01	9.81E-01	1.26E-01
		1120.29	*	15.10	8.82E-01		1.30E+00	4.16E-01
		1764.49	*	15.80	2.86E-01		1.24E+00	1.09E-01
		2204.22	*	4.98	1.26E+00		1.04E+00	5.10E-01
+	PB-214	295.21	*	19.19	4.65E-01	1.99E-01	1.13E+00	2.25E-01
		351.92	*	37.19	1.99E-01		1.00E+00	9.52E-02
	RN-219	401.80		6.50	7.48E-01	7.48E-01	-5.84E-01	3.47E-01
	RA-223	323.87		3.88	1.37E+00	1.37E+00	-1.92E-02	6.48E-01
	RA-224	240.98		3.95	2.83E+00	2.83E+00	1.21E+01	1.38E+00
	RA-225	40.00		31.00	1.47E+00	1.47E+00	-2.88E-01	7.08E-01
+	RA-226	186.21	*	3.28	2.14E+00	2.14E+00	1.37E+00	1.04E+00
	TH-227	50.10		8.40	8.51E-01	5.00E-01	-1.54E-01	4.11E-01
		236.00		11.50	5.00E-01		-3.52E+00	2.39E-01
		256.20		6.30	7.92E-01		1.35E-01	3.76E-01
+	AC-228	338.32	*	11.40	5.85E-01	4.71E-01	8.53E-01	2.79E-01
		911.07	*	27.70	4.71E-01		8.16E-01	2.24E-01
		969.11	*	16.60	7.33E-01		8.59E-01	3.46E-01
	TH-230	48.44		16.90	4.95E-01	4.95E-01	2.93E-01	2.40E-01
		62.85		4.60	1.59E+00		2.00E+00	7.74E-01
		67.67		0.37	1.63E+01		-5.87E+00	7.90E+00
	PA-231	283.67		1.60	3.23E+00	2.32E+00	1.44E+00	1.53E+00
		302.67		2.30	2.32E+00		-1.12E-01	1.10E+00
	TH-231	25.64		14.70	5.01E+00	9.15E-01	-2.28E+00	2.43E+00
		84.21		6.40	9.15E-01		-5.54E-01	4.44E-01
	PA-233	311.98		38.60	2.66E-01	2.66E-01	-1.59E-01	1.24E-01
	PA-234	131.20		20.40	2.36E-01	2.36E-01	3.06E-03	1.14E-01
		733.99		8.80	7.51E-01		-4.57E-01	3.44E-01
		946.00		12.00	6.43E-01		1.50E-01	2.93E-01
	PA-234M	1001.03		0.92	8.33E+00	8.33E+00	1.07E-01	3.78E+00
	TH-234	63.29		3.80	1.92E+00	1.92E+00	2.47E+00	9.33E-01
	U-235	143.76		10.50	4.43E-01	4.43E-01	1.55E-01	2.13E-01
		163.35		4.70	1.05E+00		5.20E-01	5.05E-01
		205.31		4.70	1.09E+00		-3.42E-01	5.23E-01
	NP-237	86.50		12.60	4.98E-01	4.98E-01	2.11E-01	2.42E-01
	NP-239	106.10		22.70	2.54E+03	2.54E+03	9.18E+02	1.23E+03
		228.18		10.70	5.84E+03		4.77E+03	2.78E+03
		277.60		14.10	4.40E+03		7.04E+02	2.08E+03
	AM-241	59.54		35.90	1.77E-01	1.77E-01	-2.88E-01	8.59E-02
+	AM-243	74.67	*	66.00	1.82E-01	1.82E-01	2.04E-01	8.96E-02
	CM-243	209.75		3.29	1.69E+00	3.56E-01	5.55E-01	8.13E-01
		228.14		10.60	4.73E-01		3.87E-01	2.25E-01
		277.60		14.00	3.56E-01		5.70E-02	1.69E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1507182-04

FEEBRIS1D-5 063-064

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-5 063-064

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	33	81	89	259	221	173
25:	61	47	49	43	36	46	47	35
33:	44	47	32	45	45	43	38	45
41:	50	41	47	50	36	65	116	58
49:	54	63	41	52	50	54	61	57
57:	70	47	67	66	71	78	113	158
65:	62	73	69	78	65	76	90	92
73:	85	94	196	205	203	294	71	89
81:	64	60	58	77	108	64	96	127
89:	73	90	77	87	191	135	74	47
97:	49	47	70	51	52	60	33	48
105:	51	48	47	52	51	42	47	37
113:	60	57	55	45	35	53	45	45
121:	40	34	46	38	39	46	48	39
129:	59	66	34	55	43	37	40	47
137:	43	40	44	40	45	35	40	43
145:	46	38	29	49	42	34	30	33
153:	48	37	39	33	36	36	44	27
161:	33	42	41	29	47	43	34	30
169:	40	39	38	35	27	35	32	37
177:	35	43	38	47	35	40	34	35
185:	44	93	94	30	24	36	36	28
193:	33	43	31	40	35	45	31	47
201:	39	36	41	39	30	32	34	32
209:	35	63	32	30	34	31	25	32
217:	28	31	26	31	26	32	29	17
225:	22	38	24	28	23	25	15	20
233:	33	30	22	25	33	66	337	109
241:	51	98	80	29	17	24	23	22
249:	17	17	18	15	17	17	22	26
257:	24	28	28	24	17	23	17	24
265:	31	8	26	20	25	44	38	23
273:	19	18	21	22	18	24	23	17
281:	15	23	24	20	18	24	15	21
289:	18	29	16	22	15	20	92	131
297:	36	15	17	36	26	17	18	20
305:	25	21	23	20	22	14	19	7
313:	12	19	14	22	22	10	16	15
321:	16	11	19	24	18	24	21	24
329:	32	16	24	24	22	11	17	13
337:	15	50	61	29	6	26	11	11
345:	13	12	17	14	13	12	42	208
353:	122	16	9	14	12	7	17	15
361:	10	13	15	13	15	18	10	14

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369:	8	19	12	10	7	13	18	15

Sample Title: FEEBRIS1D-5 063-064

Channel								
377:	15	9	16	12	9	15	18	8
385:	14	12	14	13	19	11	13	11
393:	10	13	11	11	18	16	18	10
401:	15	12	10	10	19	16	16	10
409:	12	16	10	11	10	12	17	13
417:	10	9	17	9	18	16	9	8
425:	15	13	13	9	12	18	10	8
433:	18	14	12	15	13	13	18	13
441:	17	14	14	6	9	8	13	6
449:	12	12	9	11	12	12	9	15
457:	12	14	6	9	9	17	15	21
465:	8	7	8	11	14	12	5	11
473:	11	10	14	2	13	12	7	9
481:	14	7	7	7	14	6	7	16
489:	12	6	9	8	8	14	10	9
497:	14	9	10	11	12	11	7	4
505:	11	8	10	21	25	30	45	33
513:	20	9	14	7	12	7	8	9
521:	13	15	7	7	2	4	10	6
529:	8	9	8	8	9	7	10	13
537:	10	12	11	7	6	8	11	9
545:	6	5	5	10	9	10	8	7
553:	12	10	9	6	5	11	9	5
561:	2	13	11	12	12	9	6	6
569:	9	10	18	14	8	4	10	14
577:	6	5	8	10	8	14	70	62
585:	21	10	10	11	14	6	11	9
593:	7	8	7	7	9	7	6	7
601:	6	7	8	16	10	15	19	30
609:	100	135	26	9	11	7	6	7
617:	10	6	8	4	10	10	7	11
625:	5	11	10	3	13	6	3	7
633:	8	7	7	3	6	1	7	9
641:	6	6	5	5	8	7	12	4
649:	6	7	10	9	4	3	8	12
657:	3	8	1	8	15	34	13	8
665:	8	11	6	5	4	7	8	12
673:	7	10	5	8	2	7	6	6
681:	4	9	9	6	9	8	4	5
689:	9	6	5	7	8	11	11	8
697:	10	9	13	7	7	8	15	6
705:	9	8	5	8	6	8	9	6
713:	4	6	8	7	9	9	4	11
721:	10	5	9	7	3	8	23	16
729:	12	9	6	5	4	8	5	4
737:	9	9	12	4	5	5	5	4
745:	7	5	9	8	4	7	9	5
753:	7	4	14	7	3	2	7	8
761:	10	12	8	10	4	8	5	16
769:	18	4	6	2	7	7	6	4
777:	8	4	4	1	6	7	8	8
785:	7	8	10	6	2	3	3	10
793:	3	9	5	12	7	4	2	3

801:	5	6	3	9	8	12	11	1

Sample Title: FEEBRIS1D-5 063-064

Channel								
809:	6	3	3	5	5	3	4	7
817:	4	3	1	4	6	2	7	7
825:	5	8	2	5	8	12	8	1
833:	5	3	4	5	3	10	7	10
841:	6	8	9	6	3	6	8	6
849:	7	6	4	3	5	5	6	4
857:	6	5	5	12	12	3	5	6
865:	7	5	1	3	4	6	5	3
873:	7	7	5	5	3	5	6	9
881:	3	7	3	6	6	5	5	5
889:	7	4	4	10	5	7	4	9
897:	6	7	6	3	8	3	5	4
905:	7	5	6	4	4	20	61	43
913:	3	4	4	8	2	3	7	9
921:	10	4	6	8	4	7	9	2
929:	1	3	7	5	7	3	6	4
937:	1	9	2	2	3	6	4	3
945:	5	6	5	5	9	6	2	5
953:	9	6	2	11	3	4	9	8
961:	2	4	2	13	10	9	3	14
969:	33	12	9	5	4	7	3	6
977:	5	5	4	5	4	5	3	6
985:	7	7	2	4	3	10	3	3
993:	4	4	5	5	2	4	2	5
1001:	12	5	1	4	7	4	3	10
1009:	4	4	5	4	9	8	7	7
1017:	4	4	6	6	5	6	7	7
1025:	6	2	5	10	2	2	8	4
1033:	3	7	8	9	5	8	5	5
1041:	4	6	3	5	1	1	3	4
1049:	5	4	7	5	2	4	2	3
1057:	5	7	3	8	3	3	4	5
1065:	3	6	6	4	3	4	1	5
1073:	5	5	8	7	5	7	8	5
1081:	2	6	2	6	1	3	5	4
1089:	3	4	5	1	4	5	4	3
1097:	2	5	3	6	5	2	5	3
1105:	1	0	3	4	3	7	6	2
1113:	5	2	4	7	5	1	8	27
1121:	24	12	7	6	6	2	4	5
1129:	5	3	4	3	2	11	6	3
1137:	7	8	8	5	4	3	5	6
1145:	5	4	5	3	6	11	7	5
1153:	4	3	8	6	5	7	4	4
1161:	6	4	7	10	2	6	4	4
1169:	6	6	4	7	4	5	6	4
1177:	8	2	10	6	6	5	8	7
1185:	3	1	6	2	2	5	6	5
1193:	4	4	4	3	9	2	1	4
1201:	2	3	5	8	2	5	7	5
1209:	4	4	6	4	4	3	3	7
1217:	8	2	2	5	5	6	8	7
1225:	4	4	14	5	5	9	9	6

1233:	7	7	7	2	5	9	10	8

Sample Title: FEEBRIS1D-5 063-064

Channel								
1241:	8	4	10	5	5	7	4	4
1249:	7	3	6	3	5	3	6	1
1257:	8	7	6	4	5	3	5	9
1265:	2	4	1	5	4	6	4	5
1273:	5	3	4	3	4	2	4	4
1281:	4	6	2	1	4	4	5	4
1289:	6	4	5	4	2	4	3	6
1297:	5	3	3	3	2	4	4	5
1305:	3	0	0	6	3	3	5	2
1313:	2	4	1	2	0	1	5	1
1321:	0	3	4	3	4	1	1	3
1329:	3	4	2	2	3	1	0	2
1337:	1	3	3	2	0	4	2	2
1345:	5	4	3	2	0	1	3	1
1353:	0	4	2	1	1	2	4	1
1361:	3	1	2	2	1	2	1	1
1369:	0	2	3	1	0	2	1	3
1377:	6	5	3	3	4	0	3	1
1385:	3	5	3	1	1	1	2	1
1393:	1	6	2	2	2	1	2	1
1401:	3	5	6	1	0	1	2	7
1409:	2	5	1	2	0	1	3	1
1417:	3	0	1	2	3	3	3	0
1425:	3	5	1	1	1	3	2	1
1433:	2	1	2	3	4	3	3	1
1441:	2	0	5	5	4	4	3	2
1449:	1	2	3	1	2	2	2	4
1457:	2	3	38	141	216	65	13	1
1465:	4	3	1	1	1	3	2	0
1473:	2	2	0	3	2	2	0	5
1481:	1	2	3	0	1	2	1	2
1489:	0	0	4	1	1	0	3	5
1497:	2	2	0	2	2	1	2	2
1505:	2	1	1	4	2	1	0	1
1513:	2	2	1	4	1	1	1	2
1521:	0	0	1	4	0	1	0	3
1529:	2	2	2	3	0	4	1	3
1537:	2	4	1	0	0	2	1	1
1545:	2	1	1	1	1	2	0	1
1553:	0	3	1	2	0	0	0	0
1561:	0	0	0	1	2	0	1	1
1569:	1	3	2	0	2	1	2	0
1577:	2	2	2	1	2	1	2	3
1585:	1	1	3	7	5	2	1	1
1593:	5	3	1	0	2	3	0	1
1601:	1	0	0	0	1	1	0	0
1609:	1	1	2	0	2	0	0	1
1617:	4	0	0	1	0	1	2	2
1625:	0	1	0	3	3	2	2	1
1633:	1	2	1	1	1	1	0	0
1641:	0	3	0	0	2	3	1	1
1649:	1	0	1	1	0	0	1	0
1657:	0	0	0	4	1	2	0	1

1665:	1	0	0	3	1	1	1	1

Sample Title: FEEBRIS1D-5 063-064

Channel								
1673:	0	1	1	0	1	1	0	1
1681:	4	1	1	2	3	1	1	2
1689:	3	4	1	2	1	2	3	2
1697:	0	2	0	1	2	0	1	3
1705:	2	1	1	0	1	1	1	0
1713:	3	0	0	2	0	1	0	1
1721:	1	1	0	0	0	0	1	3
1729:	2	3	2	1	1	4	1	1
1737:	1	3	1	0	1	0	0	2
1745:	0	1	1	4	0	2	0	0
1753:	1	0	3	2	1	0	0	1
1761:	0	3	11	21	7	7	2	0
1769:	0	1	2	0	2	1	1	0
1777:	0	1	0	2	2	0	0	0
1785:	2	2	1	0	1	1	0	0
1793:	0	0	3	0	2	3	0	0
1801:	0	4	1	3	0	1	0	1
1809:	2	0	0	0	0	1	0	2
1817:	2	0	1	0	1	1	2	2
1825:	0	2	1	0	2	1	1	0
1833:	1	0	1	0	0	1	1	1
1841:	0	0	0	2	4	1	4	5
1849:	0	0	2	1	0	1	1	0
1857:	1	0	0	0	3	0	1	0
1865:	0	1	0	0	2	1	1	1
1873:	3	3	1	0	0	1	1	0
1881:	0	1	0	0	0	0	2	0
1889:	0	3	3	0	2	0	0	0
1897:	2	1	3	0	1	0	1	3
1905:	0	1	0	1	1	0	0	1
1913:	1	1	0	3	1	1	0	0
1921:	0	1	1	3	1	0	0	0
1929:	1	0	0	0	1	2	1	1
1937:	0	3	1	0	1	1	2	0
1945:	0	1	0	2	0	2	0	1
1953:	0	0	0	0	1	1	1	0
1961:	0	1	1	0	0	0	2	0
1969:	0	0	1	1	3	0	0	1
1977:	0	1	1	1	0	0	2	2
1985:	2	0	0	0	0	0	0	1
1993:	0	0	1	1	0	1	0	0
2001:	0	0	1	1	0	2	0	1
2009:	2	0	1	1	1	0	1	0
2017:	0	0	2	1	0	0	2	0
2025:	0	0	0	0	0	0	0	1
2033:	0	0	1	0	1	0	1	0
2041:	1	0	1	1	1	0	1	1
2049:	0	1	3	0	0	1	1	1
2057:	0	0	0	2	1	0	0	1
2065:	0	1	0	0	0	2	1	0
2073:	1	1	1	1	1	1	4	0
2081:	0	0	0	1	1	0	2	1
2089:	2	1	0	0	3	1	1	0

00394 8/24/15

~~00395~~

2097:	1	0	0	0	3	2	3	1

Sample Title: FEEBRIS1D-5 063-064

Channel								
2105:	2	0	0	1	1	0	0	0
2113:	2	0	2	0	1	1	1	2
2121:	0	0	0	0	2	0	1	0
2129:	2	0	2	1	0	1	0	0
2137:	0	1	1	1	0	0	1	0
2145:	1	1	0	0	0	0	0	0
2153:	3	1	0	1	0	1	0	3
2161:	1	2	0	2	0	0	1	0
2169:	1	0	1	2	1	0	0	0
2177:	0	0	0	0	1	1	0	0
2185:	0	1	0	2	2	0	0	1
2193:	0	0	0	1	1	0	1	1
2201:	0	2	5	5	2	0	1	1
2209:	2	0	0	0	0	0	0	0
2217:	1	1	1	0	0	1	0	0
2225:	1	1	0	1	1	0	0	0
2233:	0	3	0	0	1	0	0	1
2241:	1	1	0	0	0	0	0	1
2249:	0	3	0	0	0	0	0	0
2257:	0	0	1	0	0	1	0	2
2265:	0	0	1	2	0	1	2	2
2273:	0	0	0	0	1	0	0	2
2281:	1	2	0	1	1	0	2	1
2289:	2	0	0	1	3	0	2	1
2297:	1	0	3	0	1	1	0	0
2305:	0	2	0	1	3	2	1	0
2313:	1	0	0	0	0	0	0	2
2321:	2	1	1	0	1	1	0	0
2329:	0	0	1	1	0	0	0	1
2337:	2	1	0	2	2	0	0	1
2345:	2	0	1	0	0	1	1	1
2353:	0	0	0	0	0	0	0	0
2361:	0	1	0	0	1	1	0	0
2369:	2	0	0	2	0	0	0	1
2377:	0	1	0	1	1	1	2	1
2385:	1	1	1	0	0	0	1	0
2393:	0	0	0	0	0	0	0	0
2401:	1	1	0	1	0	0	2	2
2409:	0	0	0	0	2	0	0	0
2417:	0	0	1	0	1	1	0	0
2425:	1	0	1	2	2	0	1	0
2433:	1	2	0	0	0	0	0	1
2441:	1	0	0	1	1	0	1	2
2449:	2	0	0	0	2	1	0	1
2457:	1	0	0	0	1	1	1	0
2465:	0	1	0	1	1	0	0	0
2473:	1	1	2	1	0	1	1	2
2481:	1	0	0	1	0	0	2	1
2489:	0	0	0	0	0	0	2	1
2497:	0	0	0	0	0	0	0	1
2505:	0	0	0	0	0	0	0	1
2513:	0	0	2	0	0	0	0	0
2521:	1	0	0	0	0	0	0	0

2529:	1	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-5 063-064

Channel								
2537:	0	0	1	0	2	0	0	1
2545:	0	0	0	1	0	0	0	0
2553:	0	1	0	0	0	0	0	0
2561:	0	0	0	0	0	0	0	1
2569:	0	0	0	0	0	0	1	0
2577:	0	2	1	0	0	0	0	0
2585:	1	0	0	0	3	0	1	2
2593:	1	0	0	0	1	0	0	0
2601:	0	1	0	1	0	1	0	0
2609:	1	1	2	10	14	17	8	3
2617:	0	1	1	0	1	0	1	0
2625:	1	0	0	0	0	0	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	1	0	0	0	1	0	0
2649:	0	0	0	0	0	1	0	1
2657:	0	0	0	0	0	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	1	0	0	0	2	0	1	0
2681:	0	0	0	1	0	0	1	0
2689:	0	1	0	1	2	1	0	0
2697:	1	0	0	0	0	0	0	0
2705:	0	0	0	0	0	0	1	0
2713:	0	0	0	0	0	0	0	0
2721:	1	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	1
2737:	0	0	0	0	1	0	1	1
2745:	0	0	0	0	0	0	0	1
2753:	1	0	0	0	0	0	0	1
2761:	0	0	0	0	0	0	0	1
2769:	0	0	0	0	0	1	0	0
2777:	0	0	0	0	0	1	0	1
2785:	0	1	0	0	0	0	0	1
2793:	0	0	1	0	1	0	0	1
2801:	0	0	1	0	0	0	0	0
2809:	1	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	1	0	0	0	0	0	0	0
2833:	1	1	0	0	1	0	2	1
2841:	0	0	1	0	0	1	0	0
2849:	0	0	0	0	1	1	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	1	0	0	0	0	0	0
2873:	2	0	0	0	0	0	1	1
2881:	1	0	0	0	0	0	0	0
2889:	0	1	0	0	0	0	0	0
2897:	0	0	0	0	1	0	0	0
2905:	0	0	0	0	0	0	2	1
2913:	1	0	0	0	1	0	0	1
2921:	0	0	1	0	0	0	0	0
2929:	0	0	0	0	1	0	0	0
2937:	1	0	0	0	0	0	1	0
2945:	0	2	0	0	1	0	0	0
2953:	3	0	1	0	0	0	0	1

2961:	0	0	0	1	1	1	0	0

Sample Title: FEEBRIS1D-5 063-064

Channel								
2969:	0	0	0	0	0	0	1	1
2977:	0	0	0	0	0	0	0	1
2985:	0	0	1	1	1	0	0	1
2993:	0	0	0	0	1	0	0	0
3001:	0	0	0	0	0	0	0	1
3009:	0	0	1	0	0	0	1	1
3017:	0	0	0	0	0	0	0	1
3025:	1	0	1	0	1	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	1	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	2	0	0	0	0	0	0	1
3073:	0	0	0	0	0	0	0	0
3081:	2	0	0	0	0	0	0	0
3089:	0	0	0	0	0	1	1	0
3097:	0	0	0	0	1	1	0	0
3105:	0	0	1	0	0	0	1	0
3113:	0	0	0	2	0	0	0	0
3121:	1	0	0	0	1	0	0	0
3129:	0	0	0	1	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	1	0	0	0
3153:	0	0	1	0	0	1	0	0
3161:	0	0	2	0	0	1	0	1
3169:	0	1	1	0	0	2	0	0
3177:	0	0	0	0	0	1	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	2	0	0
3201:	0	0	0	0	0	0	1	0
3209:	0	0	0	0	0	1	0	2
3217:	0	1	0	0	0	0	0	0
3225:	1	0	0	1	0	1	0	0
3233:	0	0	0	0	1	0	0	0
3241:	0	1	0	1	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	2	0	1	0	0	0	0
3265:	0	0	1	1	0	1	0	0
3273:	0	0	1	0	0	0	0	0
3281:	0	0	0	0	1	0	0	0
3289:	0	0	0	1	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	1
3321:	0	0	0	1	0	1	0	0
3329:	0	0	0	0	1	1	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	1	0	1	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	0

3393:	0	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-5 063-064

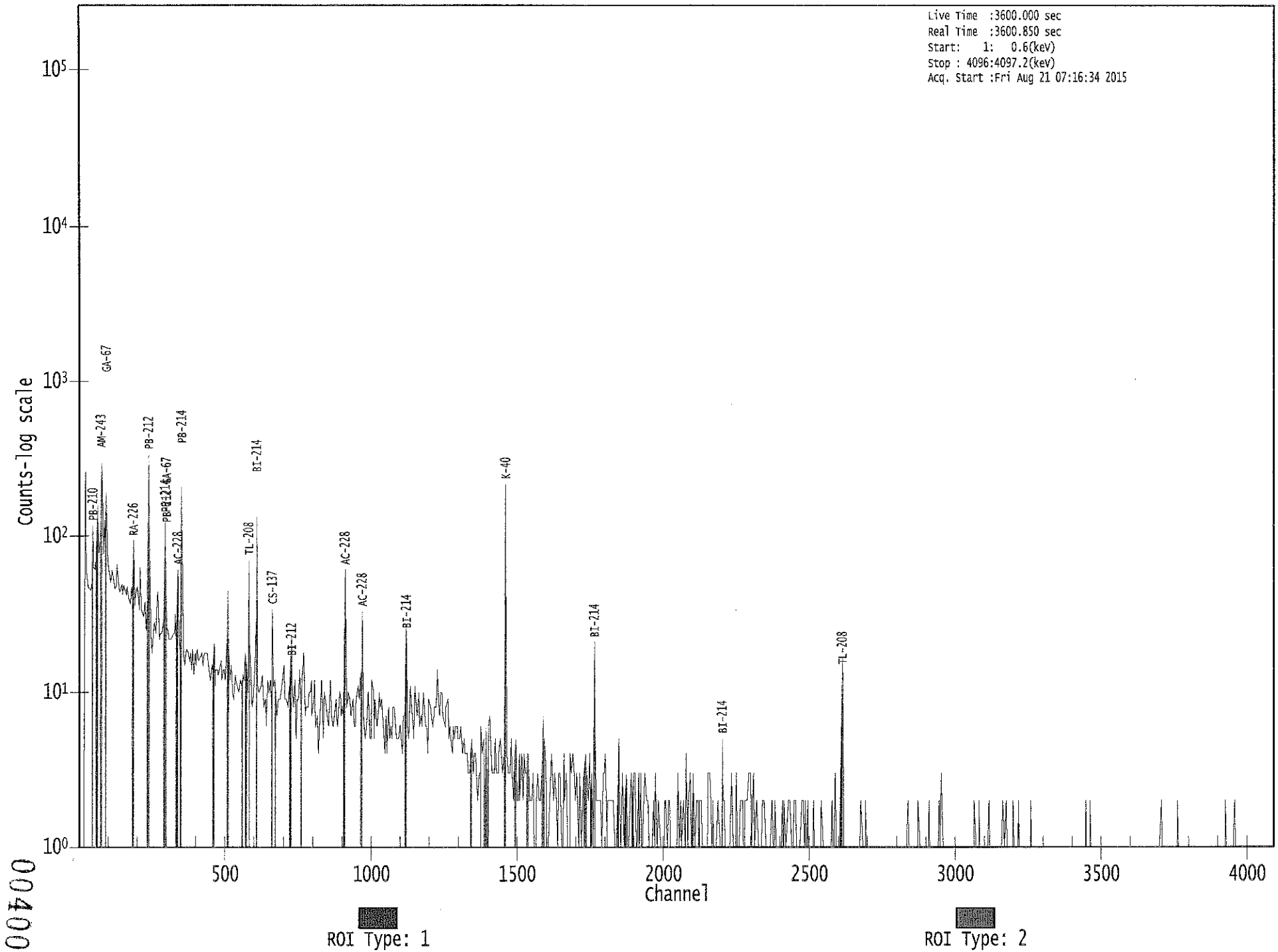
Channel								
3401:	1	0	0	1	0	0	0	0
3409:	0	1	1	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	2
3449:	1	0	0	0	0	0	0	0
3457:	0	0	0	0	0	2	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	1	1	1	0
3489:	0	1	0	0	1	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	1	0	0	0	1
3529:	1	1	0	0	0	0	0	0
3537:	0	0	0	0	1	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	1	0	0	0	0	0	0	0
3561:	0	0	1	1	0	0	0	0
3569:	0	0	0	1	0	0	0	1
3577:	0	0	0	1	0	0	0	0
3585:	0	0	1	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	1	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	1	0	1	0
3657:	0	0	0	0	0	0	1	0
3665:	0	0	0	0	0	0	0	0
3673:	1	1	1	0	1	0	1	0
3681:	0	0	0	1	0	0	1	0
3689:	0	0	0	0	0	0	0	0
3697:	1	0	0	0	1	0	0	0
3705:	0	0	2	0	0	0	0	0
3713:	0	0	1	0	0	0	0	0
3721:	0	1	1	0	0	0	0	0
3729:	0	0	0	0	0	1	0	0
3737:	0	0	0	1	0	1	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	1	0	0	0	0
3761:	0	2	0	0	1	0	0	0
3769:	0	0	0	0	0	1	0	0
3777:	1	0	1	0	0	0	1	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	1	0	0	0	0	1
3801:	1	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	1	1	0	0	0

3825:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-5 063-064

Channel								
3833:	0	0	0	0	1	0	1	0
3841:	1	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	1	0	0	0	0
3865:	0	0	0	1	0	0	0	0
3873:	0	0	0	0	0	1	0	0
3881:	1	1	0	0	1	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	0	1	0	0	0	0	0	0
3905:	0	0	0	0	0	1	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	2	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	1	0	0
3945:	0	0	0	0	0	0	0	0
3953:	1	0	0	0	0	2	0	0
3961:	1	0	0	0	0	0	0	1
3969:	0	0	0	1	0	0	0	1
3977:	0	1	0	0	1	0	0	0
3985:	0	0	0	0	0	0	0	1
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	1	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	1	0	0	0
4033:	0	0	1	0	0	1	0	0
4041:	0	1	1	0	0	1	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	1
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	1	1	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026230.CNF



00400

Apex-Gamma

Analysis Report for 1507182-05
FEEBRIS1D-5 051-052

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-05
Sample Description	: FEEBRIS1D-5 051-052
Sample Type	: SOIL
Sample Size	: 2.449E+02 grams
Facility	: Countroom
Sample Taken On	: 7/20/2015 6:44:31AM
Acquisition Started	: 8/21/2015 6:11:46AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3606.1 seconds
Dead Time	: 0.17 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26226

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AC
8/21/15

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 7:12:01AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.42	27.54	0.0000	0.00
2	32.15	32.26	0.0000	0.00
3	46.62	46.73	0.0000	0.00
4	67.83	67.92	0.0000	0.00
5	75.12	75.21	0.0000	0.00
6	80.85	80.93	0.0000	0.00
7	83.71	83.79	0.0000	0.00
8	87.71	87.79	0.0000	0.00
9	94.45	94.53	0.0000	0.00
10	122.36	122.42	0.0000	0.00
11	144.15	144.20	0.0000	0.00
12	154.24	154.28	0.0000	0.00
13	186.22	186.25	0.0000	0.00
14	210.63	210.64	0.0000	0.00
15	236.12	236.11	0.0000	0.00
16	239.13	239.13	0.0000	0.00
17	242.08	242.08	0.0000	0.00
18	255.50	255.49	0.0000	0.00
19	257.72	257.70	0.0000	0.00
20	270.57	270.55	0.0000	0.00
21	285.19	285.16	0.0000	0.00
22	295.33	295.30	0.0000	0.00
23	300.04	300.01	0.0000	0.00
24	303.49	303.45	0.0000	0.00
25	324.08	324.03	0.0000	0.00
26	329.91	329.86	0.0000	0.00
27	334.14	334.09	0.0000	0.00
28	338.20	338.14	0.0000	0.00
29	351.93	351.87	0.0000	0.00
30	387.88	387.80	0.0000	0.00
31	401.94	401.85	0.0000	0.00
32	405.24	405.15	0.0000	0.00
33	427.48	427.38	0.0000	0.00
34	462.68	462.56	0.0000	0.00
35	469.18	469.05	0.0000	0.00
36	480.76	480.63	0.0000	0.00
37	487.23	487.10	0.0000	0.00
38	510.35	510.21	0.0000	0.00
39	548.35	548.18	0.0000	0.00
40	580.10	579.92	0.0000	0.00
41	583.22	583.04	0.0000	0.00
42	609.45	609.26	0.0000	0.00

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	616.52	616.33	0.0000	0.00
44	665.84	665.62	0.0000	0.00
45	700.72	700.49	0.0000	0.00
46	703.83	703.59	0.0000	0.00
47	712.01	711.77	0.0000	0.00
48	768.38	768.12	0.0000	0.00
49	786.13	785.86	0.0000	0.00
50	805.98	805.70	0.0000	0.00
51	821.99	821.70	0.0000	0.00
52	832.17	831.87	0.0000	0.00
53	839.34	839.04	0.0000	0.00
54	904.71	904.38	0.0000	0.00
55	910.97	910.64	0.0000	0.00
56	934.29	933.96	0.0000	0.00
57	964.11	963.76	0.0000	0.00
58	969.42	969.07	0.0000	0.00
59	975.84	975.49	0.0000	0.00
60	1000.63	1000.26	0.0000	0.00
61	1070.34	1069.95	0.0000	0.00
62	1120.50	1120.09	0.0000	0.00
63	1150.76	1150.34	0.0000	0.00
64	1155.42	1155.00	0.0000	0.00
65	1183.30	1182.87	0.0000	0.00
66	1209.30	1208.86	0.0000	0.00
67	1238.33	1237.88	0.0000	0.00
68	1252.40	1251.95	0.0000	0.00
69	1281.24	1280.78	0.0000	0.00
70	1284.69	1284.22	0.0000	0.00
71	1377.97	1377.47	0.0000	0.00
72	1384.88	1384.38	0.0000	0.00
73	1401.28	1400.78	0.0000	0.00
74	1408.33	1407.82	0.0000	0.00
75	1425.67	1425.16	0.0000	0.00
76	1448.40	1447.88	0.0000	0.00
77	1460.92	1460.40	0.0000	0.00
78	1509.75	1509.21	0.0000	0.00
79	1541.78	1541.23	0.0000	0.00
80	1584.00	1583.44	0.0000	0.00
81	1599.38	1598.82	0.0000	0.00
82	1661.77	1661.19	0.0000	0.00
83	1692.92	1692.33	0.0000	0.00
84	1729.85	1729.25	0.0000	0.00
85	1764.77	1764.16	0.0000	0.00
86	1787.44	1786.83	0.0000	0.00
87	1794.79	1794.17	0.0000	0.00
88	1839.53	1838.91	0.0000	0.00
89	1847.50	1846.88	0.0000	0.00
90	1897.79	1897.16	0.0000	0.00
91	1937.63	1936.98	0.0000	0.00
92	2052.69	2052.02	0.0000	0.00
93	2118.27	2117.59	0.0000	0.00
94	2186.47	2185.78	0.0000	0.00
95	2193.17	2192.48	0.0000	0.00
96	2204.31	2203.62	0.0000	0.00
97	2293.66	2292.95	0.0000	0.00

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
98	2447.89	2447.17	0.0000	0.00
99	2614.61	2613.87	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 7:12:01AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	27.42	24 -	34	27.54	3.35E+02	122.62	3.34E+03	1.46
m	2	32.15	24 -	34	32.26	7.28E+02	128.25	3.44E+03	1.42
	3	46.62	44 -	49	46.73	1.82E+03	212.43	7.56E+03	1.21
	4	67.83	65 -	70	67.92	6.03E+03	285.87	1.23E+04	1.17
M	5	75.12	72 -	92	75.21	4.10E+03	206.46	6.93E+03	1.21
m	6	80.85	72 -	92	80.93	1.61E+03	192.24	6.30E+03	1.21
m	7	83.71	72 -	92	83.79	3.58E+03	206.27	6.06E+03	1.21
m	8	87.71	72 -	92	87.79	1.31E+03	183.88	5.79E+03	1.22
	9	94.45	92 -	97	94.53	9.84E+02	208.10	7.84E+03	1.31
	10	122.36	120 -	124	122.42	1.57E+02	140.07	4.22E+03	1.59
	11	144.15	141 -	147	144.20	1.42E+03	201.83	6.36E+03	1.42
	12	154.24	151 -	157	154.28	9.03E+02	199.45	6.57E+03	1.75
	13	186.22	182 -	190	186.25	2.38E+03	231.18	6.75E+03	1.65
	14	210.63	209 -	213	210.64	1.33E+02	116.06	2.86E+03	1.71
M	15	236.12	233 -	246	236.11	1.39E+03	114.89	1.90E+03	1.41
m	16	239.13	233 -	246	239.13	2.83E+02	98.79	1.83E+03	1.41
m	17	242.08	233 -	246	242.08	3.14E+03	141.58	1.73E+03	1.42
M	18	255.50	252 -	264	255.49	8.00E+02	127.03	2.53E+03	2.80
m	19	257.72	252 -	264	257.70	6.17E+02	155.46	3.26E+03	2.81
	20	270.57	266 -	277	270.55	2.54E+03	217.40	4.65E+03	3.23
	21	285.19	280 -	290	285.16	5.51E+02	173.95	3.73E+03	3.42
M	22	295.33	291 -	306	295.30	6.83E+03	178.49	1.22E+03	1.42
m	23	300.04	291 -	306	300.01	5.55E+02	107.46	1.68E+03	2.00
m	24	303.49	291 -	306	303.45	3.35E+02	110.23	1.65E+03	2.01
M	25	324.08	321 -	342	324.03	2.50E+02	75.74	1.20E+03	1.46
m	26	329.91	321 -	342	329.86	3.36E+02	91.87	1.54E+03	1.55
m	27	334.14	321 -	342	334.09	7.42E+01	85.09	1.57E+03	1.55
m	28	338.20	321 -	342	338.14	1.74E+02	88.05	1.59E+03	1.56
	29	351.93	347 -	356	351.87	1.24E+04	257.39	2.37E+03	1.47
	30	387.88	383 -	392	387.80	2.93E+02	125.40	2.08E+03	4.64
M	31	401.94	398 -	408	401.85	4.82E+02	86.28	1.18E+03	1.64
m	32	405.24	398 -	408	405.15	2.99E+02	82.44	1.20E+03	1.64
	33	427.48	425 -	431	427.38	1.32E+02	92.33	1.44E+03	1.89
	34	462.68	460 -	465	462.56	8.20E+01	66.84	8.28E+02	2.37
	35	469.18	466 -	472	469.05	6.52E+01	76.53	1.02E+03	3.04
	36	480.76	477 -	483	480.63	7.23E+01	72.95	9.11E+02	1.93
	37	487.23	484 -	491	487.10	1.65E+02	80.35	9.63E+02	1.80
	38	510.35	505 -	515	510.21	2.48E+02	98.50	1.16E+03	2.07
	39	548.35	545 -	551	548.18	6.95E+01	63.57	6.81E+02	4.57
M	40	580.10	577 -	586	579.92	5.59E+01	58.86	6.35E+02	1.84

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
m	41	583.22	577 -	586	583.04	1.24E+02	60.80	5.96E+02	1.84
	42	609.45	606 -	612	609.26	8.36E+03	192.94	6.80E+02	1.79
	43	616.52	614 -	619	616.33	4.94E+01	49.56	4.45E+02	3.34
	44	665.84	662 -	669	665.62	2.25E+02	68.21	6.21E+02	1.88
M	45	700.72	699 -	708	700.49	4.00E+01	27.93	1.96E+02	1.60
m	46	703.83	699 -	708	703.59	1.23E+02	56.50	4.48E+02	2.37
	47	712.01	709 -	716	711.77	6.48E+01	55.75	4.72E+02	2.38
	48	768.38	763 -	773	768.12	7.67E+02	94.91	7.91E+02	1.95
	49	786.13	782 -	790	785.86	1.84E+02	69.42	6.25E+02	1.98
	50	805.98	802 -	809	805.70	1.85E+02	60.60	4.90E+02	1.88
	51	821.99	819 -	824	821.70	4.35E+01	46.16	3.89E+02	3.32
M	52	832.17	828 -	843	831.87	1.71E+02	48.45	3.81E+02	1.68
m	53	839.34	828 -	843	839.04	9.73E+01	45.12	3.73E+02	1.63
	54	904.71	902 -	907	904.38	5.82E+01	44.83	3.58E+02	3.20
	55	910.97	908 -	914	910.64	5.13E+01	53.80	4.93E+02	2.53
	56	934.29	928 -	938	933.96	4.24E+02	83.52	7.04E+02	2.05
	57	964.11	962 -	966	963.76	3.24E+01	38.36	2.99E+02	2.15
	58	969.42	967 -	972	969.07	5.28E+01	41.76	2.98E+02	1.21
	59	975.84	973 -	978	975.49	3.33E+01	40.17	2.99E+02	3.10
	60	1000.63	997 -	1003	1000.26	4.60E+01	46.14	3.54E+02	1.35
	61	1070.34	1066 -	1074	1069.95	5.47E+01	55.50	4.39E+02	3.06
	62	1120.50	1114 -	1125	1120.09	1.81E+03	105.98	4.98E+02	2.05
M	63	1150.76	1148 -	1162	1150.34	4.10E+01	33.75	2.27E+02	2.24
m	64	1155.42	1148 -	1162	1155.00	1.95E+02	45.96	2.76E+02	2.11
	65	1183.30	1179 -	1187	1182.87	7.80E+01	47.63	3.00E+02	1.52
	66	1209.30	1204 -	1214	1208.86	1.21E+02	57.02	3.71E+02	2.10
	67	1238.33	1233 -	1242	1237.88	6.29E+02	72.66	3.94E+02	2.04
	68	1252.40	1246 -	1257	1251.95	8.56E+01	60.43	4.13E+02	6.52
M	69	1281.24	1275 -	1289	1280.78	1.34E+02	42.34	2.42E+02	2.42
m	70	1284.69	1275 -	1289	1284.22	4.23E+01	42.05	2.07E+02	2.43
M	71	1377.97	1373 -	1392	1377.47	4.05E+02	50.51	1.75E+02	2.10
m	72	1384.88	1373 -	1392	1384.38	8.75E+01	56.83	3.79E+02	3.65
	73	1401.28	1396 -	1404	1400.78	1.51E+02	47.35	2.52E+02	1.54
	74	1408.33	1405 -	1413	1407.82	2.56E+02	52.41	2.64E+02	2.33
	75	1425.67	1420 -	1432	1425.16	6.41E+01	55.52	3.36E+02	6.37
	76	1448.40	1444 -	1451	1447.88	4.54E+01	38.16	2.13E+02	5.74
	77	1460.92	1455 -	1465	1460.40	2.50E+02	56.76	2.95E+02	2.55
	78	1509.75	1504 -	1514	1509.21	1.75E+02	64.15	4.53E+02	2.03
	79	1541.78	1535 -	1546	1541.23	6.39E+01	61.58	4.36E+02	7.36
	80	1584.00	1579 -	1586	1583.44	3.83E+01	38.88	2.23E+02	1.32
	81	1599.38	1596 -	1601	1598.82	3.69E+01	32.34	1.70E+02	1.47
	82	1661.77	1656 -	1667	1661.19	9.33E+01	38.31	1.34E+02	2.43
	83	1692.92	1687 -	1697	1692.33	4.01E+01	32.64	1.20E+02	4.96
	84	1729.85	1723 -	1734	1729.25	3.01E+02	48.54	1.44E+02	2.34
	85	1764.77	1758 -	1770	1764.16	1.36E+03	82.63	1.62E+02	2.53
M	86	1787.44	1778 -	1802	1786.83	2.21E+01	22.43	4.89E+01	3.32
m	87	1794.79	1778 -	1802	1794.17	1.69E+01	21.79	6.44E+01	3.33
M	88	1839.53	1833 -	1852	1838.91	2.27E+01	22.98	7.08E+01	2.78
m	89	1847.50	1833 -	1852	1846.88	1.91E+02	34.06	6.70E+01	2.64
	90	1897.79	1894 -	1900	1897.16	2.90E+01	17.51	3.40E+01	4.60
	91	1937.63	1931 -	1943	1936.98	5.46E+01	29.58	7.48E+01	3.83
	92	2052.69	2048 -	2057	2052.02	1.38E+01	16.31	3.05E+01	1.30
	93	2118.27	2112 -	2122	2117.59	8.57E+01	20.60	1.07E+01	2.81

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
94	2186.47	2181 -	2188	2185.78	9.00E+00	6.00	0.00E+00	1.47
95	2193.17	2189 -	2196	2192.48	1.30E+01	11.14	1.20E+01	1.12
96	2204.31	2197 -	2208	2203.62	3.67E+02	40.79	2.51E+01	2.36
97	2293.66	2289 -	2298	2292.95	1.90E+01	15.78	2.41E+01	1.98
98	2447.89	2442 -	2452	2447.17	1.12E+02	22.99	1.01E+01	3.16
99	2614.61	2608 -	2619	2613.87	3.80E+01	12.33	0.00E+00	2.23

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 7:12:01AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	27.42	24 -	34	3.35E+02	122.62	3.34E+03	9.50E+01
m	2	32.15	24 -	34	7.28E+02	128.25	3.44E+03	9.64E+01
	3	46.62	44 -	49	1.82E+03	212.43	7.56E+03	1.85E+02
	4	67.83	65 -	70	6.03E+03	285.87	1.23E+04	2.19E+02
M	5	75.12	72 -	92	4.10E+03	206.46	6.93E+03	1.37E+02
m	6	80.85	72 -	92	1.61E+03	192.24	6.30E+03	1.30E+02
m	7	83.71	72 -	92	3.58E+03	206.27	6.06E+03	1.28E+02
m	8	87.71	72 -	92	1.31E+03	183.88	5.79E+03	1.25E+02
	9	94.45	92 -	97	9.84E+02	208.10	7.84E+03	1.63E+02
	10	122.36	120 -	124	1.57E+02	140.07	4.22E+03	1.13E+02
	11	144.15	141 -	147	1.42E+03	201.83	6.36E+03	1.54E+02
	12	154.24	151 -	157	9.03E+02	199.45	6.57E+03	1.56E+02
	13	186.22	182 -	190	2.38E+03	231.18	6.75E+03	1.72E+02
	14	210.63	209 -	213	1.33E+02	116.06	2.86E+03	9.35E+01
M	15	236.12	233 -	246	1.39E+03	114.89	1.90E+03	7.17E+01
m	16	239.13	233 -	246	2.83E+02	98.79	1.83E+03	7.04E+01
m	17	242.08	233 -	246	3.14E+03	141.58	1.73E+03	6.85E+01
M	18	255.50	252 -	264	8.00E+02	127.03	2.53E+03	8.28E+01
m	19	257.72	252 -	264	6.17E+02	155.46	3.26E+03	9.38E+01
	20	270.57	266 -	277	2.54E+03	217.40	4.65E+03	1.58E+02
	21	285.19	280 -	290	5.51E+02	173.95	3.73E+03	1.38E+02

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	22	295.33	291 -	306	6.83E+03	178.49	1.22E+03	5.74E+01
m	23	300.04	291 -	306	5.55E+02	107.46	1.68E+03	6.73E+01
m	24	303.49	291 -	306	3.35E+02	110.23	1.65E+03	6.68E+01
M	25	324.08	321 -	342	2.50E+02	75.74	1.20E+03	5.69E+01
m	26	329.91	321 -	342	3.36E+02	91.87	1.54E+03	6.46E+01
m	27	334.14	321 -	342	7.42E+01	85.09	1.57E+03	6.51E+01
m	28	338.20	321 -	342	1.74E+02	88.05	1.59E+03	6.56E+01
	29	351.93	347 -	356	1.24E+04	257.39	2.37E+03	1.06E+02
	30	387.88	383 -	392	2.93E+02	125.40	2.08E+03	9.92E+01
M	31	401.94	398 -	408	4.82E+02	86.28	1.18E+03	5.65E+01
m	32	405.24	398 -	408	2.99E+02	82.44	1.20E+03	5.69E+01
	33	427.48	425 -	431	1.32E+02	92.33	1.44E+03	7.35E+01
	34	462.68	460 -	465	8.20E+01	66.84	8.28E+02	5.29E+01
	35	469.18	466 -	472	6.52E+01	76.53	1.02E+03	6.15E+01
	36	480.76	477 -	483	7.23E+01	72.95	9.11E+02	5.83E+01
	37	487.23	484 -	491	1.65E+02	80.35	9.63E+02	6.26E+01
	38	510.35	505 -	515	2.48E+02	98.50	1.16E+03	7.67E+01
	39	548.35	545 -	551	6.95E+01	63.57	6.81E+02	5.04E+01
M	40	580.10	577 -	586	5.59E+01	58.86	6.35E+02	4.14E+01
m	41	583.22	577 -	586	1.24E+02	60.80	5.96E+02	4.01E+01
	42	609.45	606 -	612	8.36E+03	192.94	6.80E+02	5.05E+01
	43	616.52	614 -	619	4.94E+01	49.56	4.45E+02	3.91E+01
	44	665.84	662 -	669	2.25E+02	68.21	6.21E+02	5.04E+01
M	45	700.72	699 -	708	4.00E+01	27.93	1.96E+02	2.30E+01
m	46	703.83	699 -	708	1.23E+02	56.50	4.48E+02	3.48E+01
	47	712.01	709 -	716	6.48E+01	55.75	4.72E+02	4.39E+01
	48	768.38	763 -	773	7.67E+02	94.91	7.91E+02	6.33E+01
	49	786.13	782 -	790	1.84E+02	69.42	6.25E+02	5.25E+01
	50	805.98	802 -	809	1.85E+02	60.60	4.90E+02	4.45E+01
	51	821.99	819 -	824	4.35E+01	46.16	3.89E+02	3.64E+01
M	52	832.17	828 -	843	1.71E+02	48.45	3.81E+02	3.21E+01
m	53	839.34	828 -	843	9.73E+01	45.12	3.73E+02	3.18E+01
	54	904.71	902 -	907	5.82E+01	44.83	3.58E+02	3.47E+01
	55	910.97	908 -	914	5.13E+01	53.80	4.93E+02	4.26E+01
	56	934.29	928 -	938	4.24E+02	83.52	7.04E+02	5.97E+01
	57	964.11	962 -	966	3.24E+01	38.36	2.99E+02	3.01E+01
	58	969.42	967 -	972	5.28E+01	41.76	2.98E+02	3.22E+01
	59	975.84	973 -	978	3.33E+01	40.17	2.99E+02	3.16E+01
	60	1000.63	997 -	1003	4.60E+01	46.14	3.54E+02	3.63E+01
	61	1070.34	1066 -	1074	5.47E+01	55.50	4.39E+02	4.40E+01
	62	1120.50	1114 -	1125	1.81E+03	105.98	4.98E+02	5.19E+01
M	63	1150.76	1148 -	1162	4.10E+01	33.75	2.27E+02	2.47E+01
m	64	1155.42	1148 -	1162	1.95E+02	45.96	2.76E+02	2.73E+01
	65	1183.30	1179 -	1187	7.80E+01	47.63	3.00E+02	3.64E+01
	66	1209.30	1204 -	1214	1.21E+02	57.02	3.71E+02	4.33E+01
	67	1238.33	1233 -	1242	6.29E+02	72.66	3.94E+02	4.32E+01
	68	1252.40	1246 -	1257	8.56E+01	60.43	4.13E+02	4.73E+01
M	69	1281.24	1275 -	1289	1.34E+02	42.34	2.42E+02	2.56E+01
m	70	1284.69	1275 -	1289	4.23E+01	42.05	2.07E+02	2.36E+01
M	71	1377.97	1373 -	1392	4.05E+02	50.51	1.75E+02	2.17E+01
m	72	1384.88	1373 -	1392	8.75E+01	56.83	3.79E+02	3.20E+01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	73	1401.28	1396 -	1404	1.51E+02	47.35	2.52E+02	3.33E+01
	74	1408.33	1405 -	1413	2.56E+02	52.41	2.64E+02	3.41E+01
	75	1425.67	1420 -	1432	6.41E+01	55.52	3.36E+02	4.37E+01
	76	1448.40	1444 -	1451	4.54E+01	38.16	2.13E+02	2.93E+01
	77	1460.92	1455 -	1465	2.50E+02	56.76	2.95E+02	3.88E+01
	78	1509.75	1504 -	1514	1.75E+02	64.15	4.53E+02	4.80E+01
	79	1541.78	1535 -	1546	6.39E+01	61.58	4.36E+02	4.89E+01
	80	1584.00	1579 -	1586	3.83E+01	38.88	2.23E+02	3.03E+01
	81	1599.38	1596 -	1601	3.69E+01	32.34	1.70E+02	2.46E+01
	82	1661.77	1656 -	1667	9.33E+01	38.31	1.34E+02	2.72E+01
	83	1692.92	1687 -	1697	4.01E+01	32.64	1.20E+02	2.47E+01
	84	1729.85	1723 -	1734	3.01E+02	48.54	1.44E+02	2.79E+01
	85	1764.77	1758 -	1770	1.36E+03	82.63	1.62E+02	3.05E+01
M	86	1787.44	1778 -	1802	2.21E+01	22.43	4.89E+01	1.15E+01
m	87	1794.79	1778 -	1802	1.69E+01	21.79	6.44E+01	1.32E+01
M	88	1839.53	1833 -	1852	2.27E+01	22.98	7.08E+01	1.38E+01
m	89	1847.50	1833 -	1852	1.91E+02	34.06	6.70E+01	1.35E+01
	90	1897.79	1894 -	1900	2.90E+01	17.51	3.40E+01	1.13E+01
	91	1937.63	1931 -	1943	5.46E+01	29.58	7.48E+01	2.11E+01
	92	2052.69	2048 -	2057	1.38E+01	16.31	3.05E+01	1.19E+01
	93	2118.27	2112 -	2122	8.57E+01	20.60	1.07E+01	7.44E+00
	94	2186.47	2181 -	2188	9.00E+00	6.00	0.00E+00	0.00E+00
	95	2193.17	2189 -	2196	1.30E+01	11.14	1.20E+01	6.97E+00
	96	2204.31	2197 -	2208	3.67E+02	40.79	2.51E+01	1.15E+01
	97	2293.66	2289 -	2298	1.90E+01	15.78	2.41E+01	1.08E+01
	98	2447.89	2442 -	2452	1.12E+02	22.99	1.01E+01	7.38E+00
	99	2614.61	2608 -	2619	3.80E+01	12.33	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 7:12:01AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	27.42	24 -	34	27.54	3.35E+02	122.62	3.34E+03	.....
m	2	32.15	24 -	34	32.26	7.28E+02	128.25	3.44E+03	.....
	3	46.62	44 -	49	46.73	1.82E+03	212.43	7.56E+03	PB-210
	4	67.83	65 -	70	67.92	6.03E+03	285.87	1.23E+04	TI-44
									TA-182
									TH-230
M	5	75.12	72 -	92	75.21	4.10E+03	206.46	6.93E+03	AM-243
m	6	80.85	72 -	92	80.93	1.61E+03	192.24	6.30E+03	XE-133
									BA-133
									HF-172
m	7	83.71	72 -	92	83.79	3.58E+03	206.27	6.06E+03	TH-231
m	8	87.71	72 -	92	87.79	1.31E+03	183.88	5.79E+03	SN-126
									CD-109
									LU-176
	9	94.45	92 -	97	94.53	9.84E+02	208.10	7.84E+03	.....
	10	122.36	120 -	124	122.42	1.57E+02	140.07	4.22E+03	CO-57
									EU-152
									EU-154
	11	144.15	141 -	147	144.20	1.42E+03	201.83	6.36E+03	U-235
	12	154.24	151 -	157	154.28	9.03E+02	199.45	6.57E+03	.....
	13	186.22	182 -	190	186.25	2.38E+03	231.18	6.75E+03	RA-226
	14	210.63	209 -	213	210.64	1.33E+02	116.06	2.86E+03	CM-243
M	15	236.12	233 -	246	236.11	1.39E+03	114.89	1.90E+03	TH-227
									NB-95M
m	16	239.13	233 -	246	239.13	2.83E+02	98.79	1.83E+03	PB-212
m	17	242.08	233 -	246	242.08	3.14E+03	141.58	1.73E+03	.....
M	18	255.50	252 -	264	255.49	8.00E+02	127.03	2.53E+03	SN-113
									TH-227
m	19	257.72	252 -	264	257.70	6.17E+02	155.46	3.26E+03	.....
	20	270.57	266 -	277	270.55	2.54E+03	217.40	4.65E+03	.....
	21	285.19	280 -	290	285.16	5.51E+02	173.95	3.73E+03	PM-149
									I-131
M	22	295.33	291 -	306	295.30	6.83E+03	178.49	1.22E+03	PB-214
m	23	300.04	291 -	306	300.01	5.55E+02	107.46	1.68E+03	BI-210M
									PB-212
									GA-67
m	24	303.49	291 -	306	303.45	3.35E+02	110.23	1.65E+03	BA-133
									PA-231
M	25	324.08	321 -	342	324.03	2.50E+02	75.74	1.20E+03	RA-223
m	26	329.91	321 -	342	329.86	3.36E+02	91.87	1.54E+03	.....
m	27	334.14	321 -	342	334.09	7.42E+01	85.09	1.57E+03	.....
m	28	338.20	321 -	342	338.14	1.74E+02	88.05	1.59E+03	AC-228
	29	351.93	347 -	356	351.87	1.24E+04	257.39	2.37E+03	PB-214
	30	387.88	383 -	392	387.80	2.93E+02	125.40	2.08E+03	.....
M	31	401.94	398 -	408	401.85	4.82E+02	86.28	1.18E+03	RN-219
m	32	405.24	398 -	408	405.15	2.99E+02	82.44	1.20E+03	PB-211
	33	427.48	425 -	431	427.38	1.32E+02	92.33	1.44E+03	SB-125
	34	462.68	460 -	465	462.56	8.20E+01	66.84	8.28E+02	SB-125
	35	469.18	466 -	472	469.05	6.52E+01	76.53	1.02E+03	.....
	36	480.76	477 -	483	480.63	7.23E+01	72.95	9.11E+02	.....
	37	487.23	484 -	491	487.10	1.65E+02	80.35	9.63E+02	LA-140
	38	510.35	505 -	515	510.21	2.48E+02	98.50	1.16E+03	.....
	39	548.35	545 -	551	548.18	6.95E+01	63.57	6.81E+02	.....
M	40	580.10	577 -	586	579.92	5.59E+01	58.86	6.35E+02	.....

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
m	41	583.22	577 -	586	583.04	1.24E+02	60.80	5.96E+02	TL-208
	42	609.45	606 -	612	609.26	8.36E+03	192.94	6.80E+02	BI-214
	43	616.52	614 -	619	616.33	4.94E+01	49.56	4.45E+02	.....
	44	665.84	662 -	669	665.62	2.25E+02	68.21	6.21E+02	SB-126
M	45	700.72	699 -	708	700.49	4.00E+01	27.93	1.96E+02	.....
m	46	703.83	699 -	708	703.59	1.23E+02	56.50	4.48E+02	.....
	47	712.01	709 -	716	711.77	6.48E+01	55.75	4.72E+02	HO-166M
	48	768.38	763 -	773	768.12	7.67E+02	94.91	7.91E+02	.....
	49	786.13	782 -	790	785.86	1.84E+02	69.42	6.25E+02	.....
	50	805.98	802 -	809	805.70	1.85E+02	60.60	4.90E+02	.....
	51	821.99	819 -	824	821.70	4.35E+01	46.16	3.89E+02	.....
M	52	832.17	828 -	843	831.87	1.71E+02	48.45	3.81E+02	PB-211
m	53	839.34	828 -	843	839.04	9.73E+01	45.12	3.73E+02	.....
	54	904.71	902 -	907	904.38	5.82E+01	44.83	3.58E+02	.....
	55	910.97	908 -	914	910.64	5.13E+01	53.80	4.93E+02	AC-228
	56	934.29	928 -	938	933.96	4.24E+02	83.52	7.04E+02	.....
	57	964.11	962 -	966	963.76	3.24E+01	38.36	2.99E+02	EU-152
	58	969.42	967 -	972	969.07	5.28E+01	41.76	2.98E+02	AC-228
	59	975.84	973 -	978	975.49	3.33E+01	40.17	2.99E+02	.....
	60	1000.63	997 -	1003	1000.26	4.60E+01	46.14	3.54E+02	PA-234M
	61	1070.34	1066 -	1074	1069.95	5.47E+01	55.50	4.39E+02	.....
	62	1120.50	1114 -	1125	1120.09	1.81E+03	105.98	4.98E+02	SC-46 BI-214 TA-182
M	63	1150.76	1148 -	1162	1150.34	4.10E+01	33.75	2.27E+02	.....
m	64	1155.42	1148 -	1162	1155.00	1.95E+02	45.96	2.76E+02	.....
	65	1183.30	1179 -	1187	1182.87	7.80E+01	47.63	3.00E+02	.....
	66	1209.30	1204 -	1214	1208.86	1.21E+02	57.02	3.71E+02	.....
	67	1238.33	1233 -	1242	1237.88	6.29E+02	72.66	3.94E+02	CO-56
	68	1252.40	1246 -	1257	1251.95	8.56E+01	60.43	4.13E+02	.....
M	69	1281.24	1275 -	1289	1280.78	1.34E+02	42.34	2.42E+02	.....
m	70	1284.69	1275 -	1289	1284.22	4.23E+01	42.05	2.07E+02	.....
M	71	1377.97	1373 -	1392	1377.47	4.05E+02	50.51	1.75E+02	.....
m	72	1384.88	1373 -	1392	1384.38	8.75E+01	56.83	3.79E+02	AG-110M
	73	1401.28	1396 -	1404	1400.78	1.51E+02	47.35	2.52E+02	.....
	74	1408.33	1405 -	1413	1407.82	2.56E+02	52.41	2.64E+02	EU-152
	75	1425.67	1420 -	1432	1425.16	6.41E+01	55.52	3.36E+02	.....
	76	1448.40	1444 -	1451	1447.88	4.54E+01	38.16	2.13E+02	.....
	77	1460.92	1455 -	1465	1460.40	2.50E+02	56.76	2.95E+02	K-40
	78	1509.75	1504 -	1514	1509.21	1.75E+02	64.15	4.53E+02	.....
	79	1541.78	1535 -	1546	1541.23	6.39E+01	61.58	4.36E+02	.....
	80	1584.00	1579 -	1586	1583.44	3.83E+01	38.88	2.23E+02	.....
	81	1599.38	1596 -	1601	1598.82	3.69E+01	32.34	1.70E+02	.....
	82	1661.77	1656 -	1667	1661.19	9.33E+01	38.31	1.34E+02	.....
	83	1692.92	1687 -	1697	1692.33	4.01E+01	32.64	1.20E+02	.....
	84	1729.85	1723 -	1734	1729.25	3.01E+02	48.54	1.44E+02	.....
	85	1764.77	1758 -	1770	1764.16	1.36E+03	82.63	1.62E+02	BI-214
M	86	1787.44	1778 -	1802	1786.83	2.21E+01	22.43	4.89E+01	.....
m	87	1794.79	1778 -	1802	1794.17	1.69E+01	21.79	6.44E+01	.....
M	88	1839.53	1833 -	1852	1838.91	2.27E+01	22.98	7.08E+01	.....
m	89	1847.50	1833 -	1852	1846.88	1.91E+02	34.06	6.70E+01	.....
	90	1897.79	1894 -	1900	1897.16	2.90E+01	17.51	3.40E+01	.....
	91	1937.63	1931 -	1943	1936.98	5.46E+01	29.58	7.48E+01	.....
	92	2052.69	2048 -	2057	2052.02	1.38E+01	16.31	3.05E+01	.....

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
93	2118.27	2112 -	2122	2117.59	8.57E+01	20.60	1.07E+01	.....
94	2186.47	2181 -	2188	2185.78	9.00E+00	6.00	0.00E+00	.....
95	2193.17	2189 -	2196	2192.48	1.30E+01	11.14	1.20E+01	.....
96	2204.31	2197 -	2208	2203.62	3.67E+02	40.79	2.51E+01	BI-214
97	2293.66	2289 -	2298	2292.95	1.90E+01	15.78	2.41E+01	.....
98	2447.89	2442 -	2452	2447.17	1.12E+02	22.99	1.01E+01	.....
99	2614.61	2608 -	2619	2613.87	3.80E+01	12.33	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 7:12:01AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	27.42	3.35E+02	122.62	9.58E-04	1.68E-03
m	2	32.15	7.28E+02	128.25	2.84E-03	1.68E-03
	3	46.62	1.82E+03	212.43	1.35E-02	1.68E-03
	4	67.83	6.03E+03	285.87	2.54E-02	2.50E-03
M	5	75.12	4.10E+03	206.46	2.72E-02	3.22E-03
m	6	80.85	1.61E+03	192.24	2.80E-02	3.79E-03
m	7	83.71	3.58E+03	206.27	2.82E-02	4.08E-03
m	8	87.71	1.31E+03	183.88	2.84E-02	4.47E-03
	9	94.45	9.84E+02	208.10	2.85E-02	4.22E-03
	10	122.36	1.57E+02	140.07	2.66E-02	2.98E-03
	11	144.15	1.42E+03	201.83	2.46E-02	2.33E-03
	12	154.24	9.03E+02	199.45	2.37E-02	2.02E-03
	13	186.22	2.38E+03	231.18	2.11E-02	1.65E-03
	14	210.63	1.33E+02	116.06	1.94E-02	1.63E-03
M	15	236.12	1.39E+03	114.89	1.80E-02	1.60E-03
m	16	239.13	2.83E+02	98.79	1.78E-02	1.60E-03
m	17	242.08	3.14E+03	141.58	1.77E-02	1.60E-03
M	18	255.50	8.00E+02	127.03	1.71E-02	1.58E-03
m	19	257.72	6.17E+02	155.46	1.70E-02	1.58E-03
	20	270.57	2.54E+03	217.40	1.64E-02	1.57E-03
	21	285.19	5.51E+02	173.95	1.58E-02	1.53E-03
M	22	295.33	6.83E+03	178.49	1.55E-02	1.48E-03
m	23	300.04	5.55E+02	107.46	1.53E-02	1.46E-03

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	24	303.49	3.35E+02	110.23	1.52E-02	1.44E-03
M	25	324.08	2.50E+02	75.74	1.45E-02	1.34E-03
m	26	329.91	3.36E+02	91.87	1.43E-02	1.31E-03
m	27	334.14	7.42E+01	85.09	1.42E-02	1.29E-03
m	28	338.20	1.74E+02	88.05	1.41E-02	1.28E-03
	29	351.93	1.24E+04	257.39	1.37E-02	1.21E-03
	30	387.88	2.93E+02	125.40	1.28E-02	1.04E-03
M	31	401.94	4.82E+02	86.28	1.25E-02	1.01E-03
m	32	405.24	2.99E+02	82.44	1.24E-02	1.01E-03
	33	427.48	1.32E+02	92.33	1.20E-02	9.83E-04
	34	462.68	8.20E+01	66.84	1.13E-02	9.47E-04
	35	469.18	6.52E+01	76.53	1.12E-02	9.41E-04
	36	480.76	7.23E+01	72.95	1.10E-02	9.29E-04
	37	487.23	1.65E+02	80.35	1.09E-02	9.22E-04
	38	510.35	2.48E+02	98.50	1.06E-02	8.99E-04
	39	548.35	6.95E+01	63.57	1.00E-02	8.60E-04
M	40	580.10	5.59E+01	58.86	9.62E-03	8.28E-04
m	41	583.22	1.24E+02	60.80	9.58E-03	8.25E-04
	42	609.45	8.36E+03	192.94	9.27E-03	7.98E-04
	43	616.52	4.94E+01	49.56	9.19E-03	7.91E-04
	44	665.84	2.25E+02	68.21	8.66E-03	7.42E-04
M	45	700.72	4.00E+01	27.93	8.33E-03	7.20E-04
m	46	703.83	1.23E+02	56.50	8.30E-03	7.18E-04
	47	712.01	6.48E+01	55.75	8.22E-03	7.13E-04
	48	768.38	7.67E+02	94.91	7.74E-03	6.77E-04
	49	786.13	1.84E+02	69.42	7.60E-03	6.65E-04
	50	805.98	1.85E+02	60.60	7.45E-03	6.52E-04
	51	821.99	4.35E+01	46.16	7.33E-03	6.42E-04
M	52	832.17	1.71E+02	48.45	7.26E-03	6.36E-04
m	53	839.34	9.73E+01	45.12	7.21E-03	6.31E-04
	54	904.71	5.82E+01	44.83	6.78E-03	5.90E-04
	55	910.97	5.13E+01	53.80	6.75E-03	5.87E-04
	56	934.29	4.24E+02	83.52	6.61E-03	5.75E-04
	57	964.11	3.24E+01	38.36	6.44E-03	5.60E-04
	58	969.42	5.28E+01	41.76	6.41E-03	5.57E-04
	59	975.84	3.33E+01	40.17	6.38E-03	5.54E-04
	60	1000.63	4.60E+01	46.14	6.25E-03	5.41E-04
	61	1070.34	5.47E+01	55.50	5.92E-03	5.05E-04
	62	1120.50	1.81E+03	105.98	5.70E-03	4.80E-04
M	63	1150.76	4.10E+01	33.75	5.58E-03	4.64E-04
m	64	1155.42	1.95E+02	45.96	5.56E-03	4.62E-04
	65	1183.30	7.80E+01	47.63	5.46E-03	4.57E-04
	66	1209.30	1.21E+02	57.02	5.37E-03	4.69E-04
	67	1238.33	6.29E+02	72.66	5.27E-03	4.83E-04
	68	1252.40	8.56E+01	60.43	5.23E-03	4.89E-04
M	69	1281.24	1.34E+02	42.34	5.14E-03	5.03E-04
m	70	1284.69	4.23E+01	42.05	5.13E-03	5.04E-04
M	71	1377.97	4.05E+02	50.51	4.87E-03	5.08E-04
m	72	1384.88	8.75E+01	56.83	4.85E-03	5.05E-04
	73	1401.28	1.51E+02	47.35	4.81E-03	4.98E-04
	74	1408.33	2.56E+02	52.41	4.79E-03	4.95E-04
	75	1425.67	6.41E+01	55.52	4.75E-03	4.88E-04
	76	1448.40	4.54E+01	38.16	4.70E-03	4.78E-04

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	77	1460.92	2.50E+02	56.76	4.67E-03	4.73E-04
	78	1509.75	1.75E+02	64.15	4.57E-03	4.53E-04
	79	1541.78	6.39E+01	61.58	4.51E-03	4.40E-04
	80	1584.00	3.83E+01	38.88	4.44E-03	4.22E-04
	81	1599.38	3.69E+01	32.34	4.41E-03	4.16E-04
	82	1661.77	9.33E+01	38.31	4.32E-03	3.90E-04
	83	1692.92	4.01E+01	32.64	4.27E-03	3.77E-04
	84	1729.85	3.01E+02	48.54	4.23E-03	3.62E-04
	85	1764.77	1.36E+03	82.63	4.18E-03	3.47E-04
M	86	1787.44	2.21E+01	22.43	4.16E-03	3.38E-04
m	87	1794.79	1.69E+01	21.79	4.15E-03	3.35E-04
M	88	1839.53	2.27E+01	22.98	4.11E-03	3.18E-04
m	89	1847.50	1.91E+02	34.06	4.10E-03	3.18E-04
	90	1897.79	2.90E+01	17.51	4.06E-03	3.18E-04
	91	1937.63	5.46E+01	29.58	4.03E-03	3.18E-04
	92	2052.69	1.38E+01	16.31	3.97E-03	3.18E-04
	93	2118.27	8.57E+01	20.60	3.95E-03	3.18E-04
	94	2186.47	9.00E+00	6.00	3.93E-03	3.18E-04
	95	2193.17	1.30E+01	11.14	3.93E-03	3.18E-04
	96	2204.31	3.67E+02	40.79	3.93E-03	3.18E-04
	97	2293.66	1.90E+01	15.78	3.93E-03	3.18E-04
	98	2447.89	1.12E+02	22.99	3.96E-03	3.18E-04
	99	2614.61	3.80E+01	12.33	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 7:12:01AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	27.42	3.35E+02	122.62			3.35E+02	1.23E+02
m	2	32.15	7.28E+02	128.25			7.28E+02	1.28E+02
	3	46.62	1.82E+03	212.43	7.29E+01	8.80E+00	1.74E+03	2.13E+02
	4	67.83	6.03E+03	285.87			6.03E+03	2.86E+02
M	5	75.12	4.10E+03	206.46			4.10E+03	2.06E+02
m	6	80.85	1.61E+03	192.24			1.61E+03	1.92E+02
m	7	83.71	3.58E+03	206.27			3.58E+03	2.06E+02

00414

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	8	87.71	1.31E+03	183.88	6.84E+00	1.23E+00	1.30E+03	1.84E+02
	9	94.45	9.84E+02	208.10			9.84E+02	2.08E+02
	10	122.36	1.57E+02	140.07			1.57E+02	1.40E+02
	11	144.15	1.42E+03	201.83			1.42E+03	2.02E+02
	12	154.24	9.03E+02	199.45			9.03E+02	1.99E+02
	13	186.22	2.38E+03	231.18	4.78E+01	7.95E+00	2.34E+03	2.31E+02
	14	210.63	1.33E+02	116.06			1.33E+02	1.16E+02
M	15	236.12	1.39E+03	114.89			1.39E+03	1.15E+02
m	16	239.13	2.83E+02	98.79	1.43E+01	7.07E+00	2.69E+02	9.90E+01
m	17	242.08	3.14E+03	141.58			3.14E+03	1.42E+02
M	18	255.50	8.00E+02	127.03			8.00E+02	1.27E+02
m	19	257.72	6.17E+02	155.46			6.17E+02	1.55E+02
	20	270.57	2.54E+03	217.40	1.77E+00	6.25E+00	2.54E+03	2.17E+02
	21	285.19	5.51E+02	173.95			5.51E+02	1.74E+02
M	22	295.33	6.83E+03	178.49	9.61E+00	5.92E+00	6.82E+03	1.79E+02
m	23	300.04	5.55E+02	107.46			5.55E+02	1.07E+02
m	24	303.49	3.35E+02	110.23			3.35E+02	1.10E+02
M	25	324.08	2.50E+02	75.74			2.50E+02	7.57E+01
m	26	329.91	3.36E+02	91.87			3.36E+02	9.19E+01
m	27	334.14	7.42E+01	85.09			7.42E+01	8.51E+01
m	28	338.20	1.74E+02	88.05			1.74E+02	8.80E+01
	29	351.93	1.24E+04	257.39	1.56E+01	5.52E+00	1.24E+04	2.57E+02
	30	387.88	2.93E+02	125.40			2.93E+02	1.25E+02
M	31	401.94	4.82E+02	86.28			4.82E+02	8.63E+01
m	32	405.24	2.99E+02	82.44			2.99E+02	8.24E+01
	33	427.48	1.32E+02	92.33			1.32E+02	9.23E+01
	34	462.68	8.20E+01	66.84			8.20E+01	6.68E+01
	35	469.18	6.52E+01	76.53			6.52E+01	7.65E+01
	36	480.76	7.23E+01	72.95			7.23E+01	7.29E+01
	37	487.23	1.65E+02	80.35			1.65E+02	8.03E+01
	38	510.35	2.48E+02	98.50	8.01E+01	5.53E+00	1.68E+02	9.87E+01
	39	548.35	6.95E+01	63.57			6.95E+01	6.36E+01
M	40	580.10	5.59E+01	58.86			5.59E+01	5.89E+01
m	41	583.22	1.24E+02	60.80	6.24E+00	3.96E+00	1.17E+02	6.09E+01
	42	609.45	8.36E+03	192.94	1.38E+01	3.84E+00	8.35E+03	1.93E+02
	43	616.52	4.94E+01	49.56			4.94E+01	4.96E+01
	44	665.84	2.25E+02	68.21			2.25E+02	6.82E+01
M	45	700.72	4.00E+01	27.93			4.00E+01	2.79E+01
m	46	703.83	1.23E+02	56.50			1.23E+02	5.65E+01
	47	712.01	6.48E+01	55.75			6.48E+01	5.57E+01
	48	768.38	7.67E+02	94.91			7.67E+02	9.49E+01
	49	786.13	1.84E+02	69.42			1.84E+02	6.94E+01
	50	805.98	1.85E+02	60.60			1.85E+02	6.06E+01
	51	821.99	4.35E+01	46.16			4.35E+01	4.62E+01
M	52	832.17	1.71E+02	48.45			1.71E+02	4.85E+01
m	53	839.34	9.73E+01	45.12			9.73E+01	4.51E+01
	54	904.71	5.82E+01	44.83			5.82E+01	4.48E+01
	55	910.97	5.13E+01	53.80	7.18E+00	2.77E+00	4.41E+01	5.39E+01
	56	934.29	4.24E+02	83.52			4.24E+02	8.35E+01
	57	964.11	3.24E+01	38.36			3.24E+01	3.84E+01
	58	969.42	5.28E+01	41.76			5.28E+01	4.18E+01
	59	975.84	3.33E+01	40.17			3.33E+01	4.02E+01
	60	1000.63	4.60E+01	46.14	1.62E-01	2.94E+00	4.59E+01	4.62E+01
	61	1070.34	5.47E+01	55.50			5.47E+01	5.55E+01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	62	1120.50	1.81E+03	105.98	3.25E+00	2.68E+00	1.81E+03	1.06E+02
M	63	1150.76	4.10E+01	33.75			4.10E+01	3.37E+01
m	64	1155.42	1.95E+02	45.96			1.95E+02	4.60E+01
	65	1183.30	7.80E+01	47.63			7.80E+01	4.76E+01
	66	1209.30	1.21E+02	57.02			1.21E+02	5.70E+01
	67	1238.33	6.29E+02	72.66	1.77E+00	2.41E+00	6.27E+02	7.27E+01
	68	1252.40	8.56E+01	60.43			8.56E+01	6.04E+01
M	69	1281.24	1.34E+02	42.34			1.34E+02	4.23E+01
m	70	1284.69	4.23E+01	42.05			4.23E+01	4.21E+01
M	71	1377.97	4.05E+02	50.51			4.05E+02	5.05E+01
m	72	1384.88	8.75E+01	56.83			8.75E+01	5.68E+01
	73	1401.28	1.51E+02	47.35			1.51E+02	4.73E+01
	74	1408.33	2.56E+02	52.41			2.56E+02	5.24E+01
	75	1425.67	6.41E+01	55.52			6.41E+01	5.55E+01
	76	1448.40	4.54E+01	38.16			4.54E+01	3.82E+01
	77	1460.92	2.50E+02	56.76	1.14E+01	2.53E+00	2.38E+02	5.68E+01
	78	1509.75	1.75E+02	64.15			1.75E+02	6.41E+01
	79	1541.78	6.39E+01	61.58			6.39E+01	6.16E+01
	80	1584.00	3.83E+01	38.88			3.83E+01	3.89E+01
	81	1599.38	3.69E+01	32.34			3.69E+01	3.23E+01
	82	1661.77	9.33E+01	38.31			9.33E+01	3.83E+01
	83	1692.92	4.01E+01	32.64			4.01E+01	3.26E+01
	84	1729.85	3.01E+02	48.54			3.01E+02	4.85E+01
	85	1764.77	1.36E+03	82.63	3.50E+00	2.20E+00	1.36E+03	8.27E+01
M	86	1787.44	2.21E+01	22.43			2.21E+01	2.24E+01
m	87	1794.79	1.69E+01	21.79			1.69E+01	2.18E+01
M	88	1839.53	2.27E+01	22.98			2.27E+01	2.30E+01
m	89	1847.50	1.91E+02	34.06			1.91E+02	3.41E+01
	90	1897.79	2.90E+01	17.51			2.90E+01	1.75E+01
	91	1937.63	5.46E+01	29.58			5.46E+01	2.96E+01
	92	2052.69	1.38E+01	16.31			1.38E+01	1.63E+01
	93	2118.27	8.57E+01	20.60			8.57E+01	2.06E+01
	94	2186.47	9.00E+00	6.00			9.00E+00	6.00E+00
	95	2193.17	1.30E+01	11.14			1.30E+01	1.11E+01
	96	2204.31	3.67E+02	40.79			3.67E+02	4.08E+01
	97	2293.66	1.90E+01	15.78			1.90E+01	1.58E+01
	98	2447.89	1.12E+02	22.99			1.12E+02	2.30E+01
	99	2614.61	3.80E+01	12.33	8.08E+00	1.71E+00	2.99E+01	1.24E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 7:12:01AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	27.42	3.35E+02	122.62			3.35E+02	1.23E+02
m	2	32.15	7.28E+02	128.25			7.28E+02	1.28E+02
	3	46.62	1.82E+03	212.43	7.29E+01	8.80E+00	1.74E+03	2.13E+02
	4	67.83	6.03E+03	285.87			6.03E+03	2.86E+02
M	5	75.12	4.10E+03	206.46			4.10E+03	2.06E+02
m	6	80.85	1.61E+03	192.24			1.61E+03	1.92E+02
m	7	83.71	3.58E+03	206.27			3.58E+03	2.06E+02
m	8	87.71	1.31E+03	183.88	6.84E+00	1.23E+00	1.30E+03	1.84E+02
	9	94.45	9.84E+02	208.10			9.84E+02	2.08E+02
	10	122.36	1.57E+02	140.07			1.57E+02	1.40E+02
	11	144.15	1.42E+03	201.83			1.42E+03	2.02E+02
	12	154.24	9.03E+02	199.45			9.03E+02	1.99E+02
	13	186.22	2.38E+03	231.18	4.78E+01	7.95E+00	2.34E+03	2.31E+02
	14	210.63	1.33E+02	116.06			1.33E+02	1.16E+02
M	15	236.12	1.39E+03	114.89			1.39E+03	1.15E+02
m	16	239.13	2.83E+02	98.79	1.43E+01	7.07E+00	2.69E+02	9.90E+01
m	17	242.08	3.14E+03	141.58			3.14E+03	1.42E+02
M	18	255.50	8.00E+02	127.03			8.00E+02	1.27E+02
m	19	257.72	6.17E+02	155.46			6.17E+02	1.55E+02
	20	270.57	2.54E+03	217.40	1.77E+00	6.25E+00	2.54E+03	2.17E+02
	21	285.19	5.51E+02	173.95			5.51E+02	1.74E+02
M	22	295.33	6.83E+03	178.49	9.61E+00	5.92E+00	6.82E+03	1.79E+02
m	23	300.04	5.55E+02	107.46			5.55E+02	1.07E+02
m	24	303.49	3.35E+02	110.23			3.35E+02	1.10E+02
M	25	324.08	2.50E+02	75.74			2.50E+02	7.57E+01
m	26	329.91	3.36E+02	91.87			3.36E+02	9.19E+01
m	27	334.14	7.42E+01	85.09			7.42E+01	8.51E+01
m	28	338.20	1.74E+02	88.05			1.74E+02	8.80E+01
	29	351.93	1.24E+04	257.39	1.56E+01	5.52E+00	1.24E+04	2.57E+02
	30	387.88	2.93E+02	125.40			2.93E+02	1.25E+02
M	31	401.94	4.82E+02	86.28			4.82E+02	8.63E+01
m	32	405.24	2.99E+02	82.44			2.99E+02	8.24E+01
	33	427.48	1.32E+02	92.33			1.32E+02	9.23E+01
	34	462.68	8.20E+01	66.84			8.20E+01	6.68E+01
	35	469.18	6.52E+01	76.53			6.52E+01	7.65E+01
	36	480.76	7.23E+01	72.95			7.23E+01	7.29E+01
	37	487.23	1.65E+02	80.35			1.65E+02	8.03E+01
	38	510.35	2.48E+02	98.50	8.01E+01	5.53E+00	1.68E+02	9.87E+01
	39	548.35	6.95E+01	63.57			6.95E+01	6.36E+01
M	40	580.10	5.59E+01	58.86			5.59E+01	5.89E+01
m	41	583.22	1.24E+02	60.80	6.24E+00	3.96E+00	1.17E+02	6.09E+01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	42	609.45	8.36E+03	192.94	1.38E+01	3.84E+00	8.35E+03	1.93E+02
	43	616.52	4.94E+01	49.56			4.94E+01	4.96E+01
	44	665.84	2.25E+02	68.21			2.25E+02	6.82E+01
M	45	700.72	4.00E+01	27.93			4.00E+01	2.79E+01
m	46	703.83	1.23E+02	56.50			1.23E+02	5.65E+01
	47	712.01	6.48E+01	55.75			6.48E+01	5.57E+01
	48	768.38	7.67E+02	94.91			7.67E+02	9.49E+01
	49	786.13	1.84E+02	69.42			1.84E+02	6.94E+01
	50	805.98	1.85E+02	60.60			1.85E+02	6.06E+01
	51	821.99	4.35E+01	46.16			4.35E+01	4.62E+01
M	52	832.17	1.71E+02	48.45			1.71E+02	4.85E+01
m	53	839.34	9.73E+01	45.12			9.73E+01	4.51E+01
	54	904.71	5.82E+01	44.83			5.82E+01	4.48E+01
	55	910.97	5.13E+01	53.80	7.18E+00	2.77E+00	4.41E+01	5.39E+01
	56	934.29	4.24E+02	83.52			4.24E+02	8.35E+01
	57	964.11	3.24E+01	38.36			3.24E+01	3.84E+01
	58	969.42	5.28E+01	41.76			5.28E+01	4.18E+01
	59	975.84	3.33E+01	40.17			3.33E+01	4.02E+01
	60	1000.63	4.60E+01	46.14	1.62E-01	2.94E+00	4.59E+01	4.62E+01
	61	1070.34	5.47E+01	55.50			5.47E+01	5.55E+01
	62	1120.50	1.81E+03	105.98	3.25E+00	2.68E+00	1.81E+03	1.06E+02
M	63	1150.76	4.10E+01	33.75			4.10E+01	3.37E+01
m	64	1155.42	1.95E+02	45.96			1.95E+02	4.60E+01
	65	1183.30	7.80E+01	47.63			7.80E+01	4.76E+01
	66	1209.30	1.21E+02	57.02			1.21E+02	5.70E+01
	67	1238.33	6.29E+02	72.66	1.77E+00	2.41E+00	6.27E+02	7.27E+01
	68	1252.40	8.56E+01	60.43			8.56E+01	6.04E+01
M	69	1281.24	1.34E+02	42.34			1.34E+02	4.23E+01
m	70	1284.69	4.23E+01	42.05			4.23E+01	4.21E+01
M	71	1377.97	4.05E+02	50.51			4.05E+02	5.05E+01
m	72	1384.88	8.75E+01	56.83			8.75E+01	5.68E+01
	73	1401.28	1.51E+02	47.35			1.51E+02	4.73E+01
	74	1408.33	2.56E+02	52.41			2.56E+02	5.24E+01
	75	1425.67	6.41E+01	55.52			6.41E+01	5.55E+01
	76	1448.40	4.54E+01	38.16			4.54E+01	3.82E+01
	77	1460.92	2.50E+02	56.76	1.14E+01	2.53E+00	2.38E+02	5.68E+01
	78	1509.75	1.75E+02	64.15			1.75E+02	6.41E+01
	79	1541.78	6.39E+01	61.58			6.39E+01	6.16E+01
	80	1584.00	3.83E+01	38.88			3.83E+01	3.89E+01
	81	1599.38	3.69E+01	32.34			3.69E+01	3.23E+01
	82	1661.77	9.33E+01	38.31			9.33E+01	3.83E+01
	83	1692.92	4.01E+01	32.64			4.01E+01	3.26E+01
	84	1729.85	3.01E+02	48.54			3.01E+02	4.85E+01
	85	1764.77	1.36E+03	82.63	3.50E+00	2.20E+00	1.36E+03	8.27E+01
M	86	1787.44	2.21E+01	22.43			2.21E+01	2.24E+01
m	87	1794.79	1.69E+01	21.79			1.69E+01	2.18E+01
M	88	1839.53	2.27E+01	22.98			2.27E+01	2.30E+01
m	89	1847.50	1.91E+02	34.06			1.91E+02	3.41E+01
	90	1897.79	2.90E+01	17.51			2.90E+01	1.75E+01
	91	1937.63	5.46E+01	29.58			5.46E+01	2.96E+01
	92	2052.69	1.38E+01	16.31			1.38E+01	1.63E+01
	93	2118.27	8.57E+01	20.60			8.57E+01	2.06E+01
	94	2186.47	9.00E+00	6.00			9.00E+00	6.00E+00
	95	2193.17	1.30E+01	11.14			1.30E+01	1.11E+01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
96	2204.31	3.67E+02	40.79			3.67E+02	4.08E+01
97	2293.66	1.90E+01	15.78			1.90E+01	1.58E+01
98	2447.89	1.12E+02	22.99			1.12E+02	2.30E+01
99	2614.61	3.80E+01	12.33	8.08E+00	1.71E+00	2.99E+01	1.24E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.998	1460.81	*	10.67	1.46E+01	3.81E+00
CO-57	0.815	122.06	*	85.51	2.29E-01	2.06E-01
		136.48		10.60		
CD-109	0.983	88.03	*	3.72	3.97E+01	8.70E+00
SN-126	0.997	87.57	*	37.00	3.80E+00	8.03E-01
XE-133	0.827	81.00	*	38.00	3.19E+02	5.77E+01
PM-149	0.325	285.90	*	3.10	7.80E+05	2.57E+05
TA-182	0.488	67.75	*	41.20	2.14E+01	2.35E+00
		1121.30	*	34.90	3.38E+01	3.47E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.892	583.14	*	30.22	1.24E+00	6.54E-01
		860.37		4.48		
		2614.66	*	35.85	6.31E-01	2.67E-01
PB-210	0.998	46.50	*	4.25	9.37E+01	1.63E+01
PB-211	0.984	404.84	*	2.90	2.54E+01	7.30E+00
		831.96	*	2.90	2.49E+01	7.38E+00
PB-212	0.963	238.63	*	44.60	1.03E+00	3.93E-01
		300.09	*	3.41	3.26E+01	7.04E+00
BI-214	0.995	609.31	*	46.30	5.96E+01	5.32E+00
		1120.29	*	15.10	6.44E+01	6.60E+00
		1764.49	*	15.80	6.30E+01	6.48E+00
		2204.22	*	4.98	5.76E+01	7.90E+00
PB-214	0.999	295.21	*	19.19	7.04E+01	6.99E+00
		351.92	*	37.19	7.45E+01	6.75E+00
RN-219	0.997	401.80	*	6.50	1.81E+01	3.56E+00

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
RA-223	0.993	323.87	*	3.88	1.36E+01	4.31E+00
RA-226	1.000	186.21	*	3.28	1.04E+02	1.90E+02
TH-227	0.483	50.10		8.40		
		236.00	*	11.50	2.06E+01	2.50E+00
		256.20	*	6.30	2.28E+01	4.19E+00
AC-228	0.994	338.32	*	11.40	3.31E+00	1.71E+00
		911.07	*	27.70	7.23E-01	8.86E-01
		969.11	*	16.60	1.52E+00	1.21E+00
TH-231	0.599	25.64		14.70		
		84.21	*	6.40	6.08E+01	9.45E+00
PA-234M	0.974	1001.03	*	0.92	2.45E+01	2.47E+01
AM-243	0.968	74.67	*	66.00	7.01E+00	9.04E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 7:12:01AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.42	9.29577E-02	18.32		
m	2	32.15	2.02222E-01	8.81		
	9	94.45	2.73258E-01	10.58		
	11	144.15	3.93440E-01	7.12	Tol.	U-235
	12	154.24	2.50714E-01	11.05		
	14	210.63	3.69654E-02	43.61	Sum	
m	17	242.08	8.71338E-01	2.26		
m	19	257.72	1.71301E-01	12.60		
	20	270.57	7.05346E-01	4.28	Sum	
m	24	303.49	9.29364E-02	16.47	Sum	
m	26	329.91	9.33292E-02	13.67	Sum	
m	27	334.14	2.06188E-02	57.32		
	30	387.88	8.13526E-02	21.41	Sum	
	33	427.48	3.67582E-02	34.89	Sum	
	34	462.68	2.27778E-02	40.76		
	35	469.18	1.81062E-02	58.70	Sum	

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	36	480.76	2.00694E-02	50.48	Sum	
	37	487.23	4.57069E-02	24.42	Sum	
	38	510.35	4.67211E-02	29.33	Sum	
	39	548.35	1.93123E-02	45.72		
M	40	580.10	1.55395E-02	52.61	Sum	
	43	616.52	1.37337E-02	50.12		
	44	665.84	6.24286E-02	15.17		
M	45	700.72	1.10993E-02	34.95	Sum	
m	46	703.83	3.42834E-02	22.89	Sum	
	47	712.01	1.79868E-02	43.05	Tol.	HO-166M
	48	768.38	2.13179E-01	6.18		
	49	786.13	5.09901E-02	18.91		
	50	805.98	5.14367E-02	16.36		
	51	821.99	1.20792E-02	53.08	Sum	
m	53	839.34	2.70356E-02	23.18	Sum	
	54	904.71	1.61603E-02	38.53	Sum	
	56	934.29	1.17754E-01	9.85	Sum	
	57	964.11	9.00030E-03	59.20	Tol.	EU-152
	59	975.84	9.26229E-03	60.24		
	61	1070.34	1.51876E-02	50.76	Sum	
M	63	1150.76	1.13767E-02	41.20	Sum	
m	64	1155.42	5.42300E-02	11.77	Sum	
	65	1183.30	2.16740E-02	30.52	D-Esc	
	66	1209.30	3.34949E-02	23.64	Sum	
	67	1238.33	1.74240E-01	5.79	Sum	
	68	1252.40	2.37881E-02	35.28		
M	69	1281.24	3.72961E-02	15.77		
m	70	1284.69	1.17379E-02	49.76		
M	71	1377.97	1.12457E-01	6.24		
m	72	1384.88	2.43180E-02	32.46	Tol.	AG-110M
	73	1401.28	4.19093E-02	15.69		
	74	1408.33	7.10879E-02	10.24	Tol.	EU-152
	75	1425.67	1.78101E-02	43.30		
	76	1448.40	1.26215E-02	41.99		
	78	1509.75	4.85238E-02	18.36		
	79	1541.78	1.77561E-02	48.17	Sum	
	80	1584.00	1.06519E-02	50.70	Sum	
	81	1599.38	1.02596E-02	43.78		
	82	1661.77	2.59028E-02	20.54		
	83	1692.92	1.11417E-02	40.69	S-Esc	
	84	1729.85	8.36528E-02	8.06	Sum	
M	86	1787.44	6.14354E-03	50.70		
m	87	1794.79	4.69865E-03	64.42		
M	88	1839.53	6.31824E-03	50.51	Sum	
m	89	1847.50	5.31382E-02	8.90	Sum	
	90	1897.79	8.05556E-03	30.18		
	91	1937.63	1.51691E-02	27.08		
	92	2052.69	3.82184E-03	59.27		
	93	2118.27	2.37943E-02	12.03		
	94	2186.47	2.50000E-03	33.33		
	95	2193.17	3.61111E-03	42.83		
	97	2293.66	5.26882E-03	41.60	Sum	
	98	2447.89	3.10992E-02	10.27		

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.46E+01	3.81E+00
CO-57	0.81	122.06	*	85.51	2.29E-01	2.06E-01
		136.48		10.60		
CD-109	0.98	88.03	*	3.72	3.97E+01	8.70E+00
SN-126	0.99	87.57	*	37.00	3.80E+00	8.03E-01
XE-133	0.82	81.00	*	38.00	3.19E+02	5.77E+01
PM-149	0.32	285.90	*	3.10	7.80E+05	2.57E+05
TA-182	0.48	67.75	*	41.20	2.14E+01	2.35E+00
		1121.30	*	34.90	3.38E+01	3.47E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
TL-208	0.89	583.14	*	30.22	1.24E+00	6.54E-01
		860.37		4.48		
		2614.66	*	35.85	6.31E-01	2.67E-01
PB-210	0.99	46.50	*	4.25	9.37E+01	1.63E+01
PB-211	0.98	404.84	*	2.90	2.54E+01	7.30E+00
		831.96	*	2.90	2.49E+01	7.38E+00
PB-212	0.96	238.63	*	44.60	1.03E+00	3.93E-01
		300.09	*	3.41	3.26E+01	7.04E+00
BI-214	0.99	609.31	*	46.30	5.96E+01	5.32E+00
		1120.29	*	15.10	6.44E+01	6.60E+00
		1764.49	*	15.80	6.30E+01	6.48E+00
		2204.22	*	4.98	5.76E+01	7.90E+00
PB-214	0.99	295.21	*	19.19	7.04E+01	6.99E+00
		351.92	*	37.19	7.45E+01	6.75E+00
RN-219	0.99	401.80	*	6.50	1.81E+01	3.56E+00
RA-223	0.99	323.87	*	3.88	1.36E+01	4.31E+00
RA-226	1.00	186.21	*	3.28	1.04E+02	1.90E+02
TH-227	0.48	50.10		8.40		
		236.00	*	11.50	2.06E+01	2.50E+00
		256.20	*	6.30	2.28E+01	4.19E+00

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Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
AC-228	0.99	338.32	*	11.40	3.31E+00	1.71E+00
		911.07	*	27.70	7.23E-01	8.86E-01
		969.11	*	16.60	1.52E+00	1.21E+00
TH-231	0.59	25.64		14.70		
		84.21	*	6.40	6.08E+01	9.45E+00
PA-234M	0.97	1001.03	*	0.92	2.45E+01	2.47E+01
AM-243	0.96	74.67	*	66.00	7.01E+00	9.04E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.998	1.46E+01	3.81E+00	
	CO-57	0.815	2.29E-01	2.06E-01	
X	NB-95M	0.656			
?	CD-109	0.983	3.97E+01	8.70E+00	
?	SN-126	0.997	3.80E+00	8.03E-01	
	XE-133	0.827	3.19E+02	5.77E+01	
	PM-149	0.325	7.80E+05	2.57E+05	
	TA-182	0.488	1.64E+01	2.02E+00	
	TL-208	0.892	7.19E-01	2.47E-01	
	PB-210	0.998	9.37E+01	1.63E+01	
	PB-211	0.984	2.52E+01	5.19E+00	
	PB-212	0.963	1.13E+00	3.92E-01	
	BI-214	0.995	5.39E+01	3.32E+00	
	PB-214	0.999	7.25E+01	4.85E+00	
	RN-219	0.997	1.81E+01	3.56E+00	
	RA-223	0.993	1.36E+01	4.31E+00	
	RA-226	1.000	1.04E+02	1.90E+02	
	TH-227	0.483	2.12E+01	2.15E+00	
	AC-228	0.994	1.35E+00	6.59E-01	
	TH-231	0.599	6.08E+01	9.45E+00	

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
PA-234M	0.974	2.45E+01	2.47E+01	
AM-243	0.968	7.01E+00	9.04E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 7:12:01AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	27.42	9.29577E-02	18.32		
m	2	32.15	2.02222E-01	8.81		
	9	94.45	2.73258E-01	10.58		
	11	144.15	3.93440E-01	7.12	Tol.	U-235
	12	154.24	2.50714E-01	11.05		
	14	210.63	3.69654E-02	43.61	Sum	
m	17	242.08	8.71338E-01	2.26		
m	19	257.72	1.71301E-01	12.60		
	20	270.57	7.05346E-01	4.28	Sum	
m	24	303.49	9.29364E-02	16.47	Sum	
m	26	329.91	9.33292E-02	13.67	Sum	
m	27	334.14	2.06188E-02	57.32		
	30	387.88	8.13526E-02	21.41	Sum	
	33	427.48	3.67582E-02	34.89	Sum	
	34	462.68	2.27778E-02	40.76		
	35	469.18	1.81062E-02	58.70	Sum	
	36	480.76	2.00694E-02	50.48	Sum	
	37	487.23	4.57069E-02	24.42	Sum	
	38	510.35	4.67211E-02	29.33	Sum	
	39	548.35	1.93123E-02	45.72		
M	40	580.10	1.55395E-02	52.61	Sum	
	43	616.52	1.37337E-02	50.12		
	44	665.84	6.24286E-02	15.17		
M	45	700.72	1.10993E-02	34.95	Sum	
m	46	703.83	3.42834E-02	22.89	Sum	
	47	712.01	1.79868E-02	43.05	Tol.	HO-166M
	48	768.38	2.13179E-01	6.18		
	49	786.13	5.09901E-02	18.91		
	50	805.98	5.14367E-02	16.36		
	51	821.99	1.20792E-02	53.08	Sum	
m	53	839.34	2.70356E-02	23.18	Sum	
	54	904.71	1.61603E-02	38.53	Sum	
	56	934.29	1.17754E-01	9.85	Sum	
	57	964.11	9.00030E-03	59.20	Tol.	EU-152

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	59	975.84	9.26229E-03	60.24		
	61	1070.34	1.51876E-02	50.76	Sum	
M	63	1150.76	1.13767E-02	41.20	Sum	
m	64	1155.42	5.42300E-02	11.77	Sum	
	65	1183.30	2.16740E-02	30.52	D-Esc	
	66	1209.30	3.34949E-02	23.64	Sum	
	67	1238.33	1.74240E-01	5.79	Sum	
	68	1252.40	2.37881E-02	35.28		
M	69	1281.24	3.72961E-02	15.77		
m	70	1284.69	1.17379E-02	49.76		
M	71	1377.97	1.12457E-01	6.24		
m	72	1384.88	2.43180E-02	32.46	Tol.	AG-110M
	73	1401.28	4.19093E-02	15.69		
	74	1408.33	7.10879E-02	10.24	Tol.	EU-152
	75	1425.67	1.78101E-02	43.30		
	76	1448.40	1.26215E-02	41.99		
	78	1509.75	4.85238E-02	18.36		
	79	1541.78	1.77561E-02	48.17	Sum	
	80	1584.00	1.06519E-02	50.70	Sum	
	81	1599.38	1.02596E-02	43.78		
	82	1661.77	2.59028E-02	20.54		
	83	1692.92	1.11417E-02	40.69	S-Esc	
	84	1729.85	8.36528E-02	8.06	Sum	
M	86	1787.44	6.14354E-03	50.70		
m	87	1794.79	4.69865E-03	64.42		
M	88	1839.53	6.31824E-03	50.51	Sum	
m	89	1847.50	5.31382E-02	8.90	Sum	
	90	1897.79	8.05556E-03	30.18		
	91	1937.63	1.51691E-02	27.08		
	92	2052.69	3.82184E-03	59.27		
	93	2118.27	2.37943E-02	12.03		
	94	2186.47	2.50000E-03	33.33		
	95	2193.17	3.61111E-03	42.83		
	97	2293.66	5.26882E-03	41.60	Sum	
	98	2447.89	3.10992E-02	10.27		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	3.74E-01	3.62E+00	3.62E+00
+	NA-22	1274.54		99.94	2.38E-02	3.57E-01	3.57E-01
+	NA-24	1368.53		99.99	-6.37E+12	1.77E+14	8.75E+14
		2754.09		99.86	3.81E+13		1.77E+14
+	AL-26	1808.65		99.76	-2.86E-02	2.36E-01	2.36E-01
+	K-40	1460.81	*	10.67	1.46E+01	4.99E+00	4.99E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	9.02E+00	5.05E-01	5.85E-01
		78.34		96.00	5.17E+00		5.05E-01
+	SC-46	889.25		99.98	-9.16E-02	4.52E-01	4.52E-01
		1120.51		99.99	1.24E+01		1.46E+00
+	V-48	983.52		99.98	5.37E-01	1.31E+00	1.41E+00
		1312.10		97.50	-5.20E-01		1.31E+00
+	CR-51	320.08		9.83	1.42E-01	6.04E+00	6.04E+00
+	MN-54	834.83		99.97	-4.27E-01	4.38E-01	4.38E-01
+	CO-56	846.75		99.96	-3.07E-03	4.41E-01	4.41E-01
		1037.75		14.03	-4.22E-01		3.11E+00
		1238.25		67.00	7.54E+00		1.52E+00
		1771.40		15.51	1.96E-01		2.43E+00
		2598.48		16.90	3.17E-02		7.80E-01
+	CO-57	122.06	*	85.51	2.29E-01	3.35E-01	3.35E-01
		136.48		10.60	-8.63E-01		2.83E+00
+	CO-58	810.76		99.40	1.39E-01	4.57E-01	4.57E-01
+	FE-59	1099.22		56.50	1.02E-01	1.02E+00	1.02E+00
		1291.56		43.20	-3.74E-01		1.16E+00
+	CO-60	1173.22		100.00	2.82E-03	3.39E-01	3.45E-01
		1332.49		100.00	-1.16E-01		3.39E-01
+	ZN-65	1115.52		50.75	-9.69E-02	8.14E-01	8.14E-01
+	GA-67	93.31		35.70	2.84E+02	8.52E+02	8.52E+02
		208.95		2.24	-1.14E+03		1.19E+04
		300.22		16.00	-5.68E+02		1.93E+03
+	SE-75	121.11		16.70	2.54E+00	5.29E-01	1.86E+00
		136.00		59.20	-1.28E-01		5.59E-01
		264.65		59.80	-2.35E-01		5.29E-01
		279.53		25.20	1.23E-01		1.34E+00
		400.65		11.40	1.02E+01		4.08E+00
+	RB-82	776.52		13.00	-1.68E+00	5.54E+00	5.54E+00
+	RB-83	520.41		46.00	-1.91E-02	6.69E-01	6.69E-01
		529.64		30.30	-3.74E-02		1.03E+00
		552.65		16.40	-2.07E-01		1.89E+00
+	KR-85	513.99		0.43	-4.48E+01	5.88E+01	5.88E+01
+	SR-85	513.99		99.27	-2.74E-01	3.60E-01	3.60E-01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	Y-88	898.02		93.40	7.93E-02	3.72E-01	4.78E-01
		1836.01		99.38	-1.13E-02		3.72E-01
+	NB-93M	16.57		9.43	9.23E+04	3.82E+04	3.82E+04
+	NB-94	702.63		100.00	4.30E-01	3.35E-01	3.50E-01
		871.10		100.00	-7.77E-02		3.35E-01
+	NB-95	765.79		99.81	5.01E+00	1.11E+00	1.11E+00
+	NB-95M	235.69	*	25.00	4.41E+03	1.15E+03	1.15E+03
+	ZR-95	724.18		43.70	-7.14E-01	7.89E-01	9.92E-01
		756.72		55.30	7.39E-02		7.89E-01
+	MO-99	181.06		6.20	2.37E+03	7.53E+03	1.53E+04
		739.58		12.80	2.22E+02		7.53E+03
		778.00		4.50	3.82E+03		2.21E+04
+	RU-103	497.08		89.00	4.81E-02	4.82E-01	4.82E-01
+	RU-106	621.84		9.80	2.62E-01	2.91E+00	2.91E+00
+	AG-108M	433.93		89.90	-7.75E-02	2.99E-01	2.99E-01
		614.37		90.40	-2.58E+01		4.01E-01
		722.95		90.50	-2.40E-01		3.42E-01
+	CD-109	88.03	*	3.72	3.97E+01	3.02E+01	3.02E+01
+	AG-110M	657.75		93.14	1.90E-01	3.41E-01	3.41E-01
		677.61		10.53	-9.95E-01		2.89E+00
		706.67		16.46	8.93E-01		2.25E+00
		763.93		21.98	2.69E-01		1.90E+00
		884.67		71.63	1.27E-01		5.18E-01
		1384.27		23.94	2.45E-01		2.04E+00
+	CD-113M	263.70		0.02	-6.43E+02	1.15E+03	1.15E+03
+	SN-113	255.12		1.93	1.03E+02	5.23E-01	2.37E+01
		391.69		64.90	8.31E-02		5.23E-01
+	TE123M	159.00		84.10	2.50E-01	4.26E-01	4.26E-01
+	SB-124	602.71		97.87	-1.24E-01	4.62E-01	4.62E-01
		645.85		7.26	-1.24E+00		5.57E+00
		722.78		11.10	-2.83E+00		4.03E+00
		1691.02		49.00	4.53E-02		9.70E-01
+	I-125	35.49		6.49	2.98E+01	2.61E+01	2.61E+01
+	SB-125	176.33		6.89	-2.71E+00	1.09E+00	4.27E+00
		427.89		29.33	1.29E+00		1.09E+00
		463.38		10.35	1.56E+00		2.64E+00
		600.56		17.80	-3.19E-01		1.77E+00
		635.90		11.32	8.85E-01		2.73E+00
+	SB-126	414.70		83.30	7.87E-01	1.83E+00	2.15E+00
		666.33		99.60	4.21E+00		2.27E+00
		695.00		99.60	5.08E-01		1.83E+00
		720.50		53.80	9.55E-01		3.46E+00
+	SN-126	87.57	*	37.00	3.80E+00	2.90E+00	2.90E+00
+	SB-127	473.00		25.00	9.68E+01	2.69E+02	3.32E+02
		685.20		35.70	1.28E+02		2.69E+02
		783.80		14.70	1.65E+03		8.71E+02
+	I-129	29.78		57.00	-3.17E+01	5.27E+00	5.27E+00
		33.60		13.20	-1.23E+01		1.19E+01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		I-129	39.58		7.52	-2.45E+00	5.27E+00	9.32E+00
+		I-131	284.30		6.05	9.93E+01	5.06E+00	8.48E+01
			364.48		81.20	2.43E+00		5.06E+00
			636.97		7.26	1.83E+01		6.54E+01
			722.89		1.80	-1.90E+02		2.71E+02
+		TE-132	49.72		13.10	1.04E+04	2.92E+02	3.05E+03
			228.16		88.00	-8.43E+01		2.92E+02
+		BA-133	81.00		33.00	5.23E+00	4.29E-01	1.10E+00
			302.84		17.80	1.48E-01		1.91E+00
			356.01		60.00	-2.58E-02		4.29E-01
+		I-133	529.87		86.30	-1.09E+10	3.61E+10	3.61E+10
+		XE-133	81.00	*	38.00	3.19E+02	1.97E+02	1.97E+02
+		CS-134	563.23		8.38	-1.29E+00	3.83E-01	3.02E+00
			569.32		15.43	3.31E-01		1.72E+00
			604.70		97.60	-1.87E-02		6.02E-01
			795.84		85.40	2.52E-01		3.83E-01
			801.93		8.73	-1.13E+00		3.81E+00
+		CS-135	268.24		16.00	-8.76E-01	2.63E+00	2.63E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	8.06E+01	1.74E+00	2.50E+01
			163.89		4.61	5.35E+00		3.36E+01
			176.55		13.56	-3.94E+00		1.15E+01
			273.65		12.66	-3.63E+01		1.46E+01
			340.57		48.50	-1.89E+00		3.43E+00
			818.50		99.70	-9.22E-02		1.74E+00
			1048.07		79.60	-1.28E+00		2.25E+00
			1235.34		19.70	5.78E+01		1.90E+01
+		CS-137	661.65		85.12	1.19E-01	3.46E-01	3.46E-01
+		LA-138	788.74		34.00	1.68E+00	4.99E-01	1.15E+00
			1435.80		66.00	-8.87E-02		4.99E-01
+		CE-139	165.85		80.35	1.17E-01	4.21E-01	4.21E-01
+		BA-140	162.64		6.70	-2.33E+01	5.68E+00	2.39E+01
			304.84		4.50	3.71E+01		3.87E+01
			423.70		3.20	1.42E+01		5.22E+01
			437.55		2.00	2.10E+01		7.83E+01
			537.32		25.00	5.83E-02		5.68E+00
+		LA-140	328.77		20.50	2.17E+01	2.76E+00	9.35E+00
			487.03		45.50	4.34E+00		3.52E+00
			815.85		23.50	-4.03E+00		7.35E+00
			1596.49		95.49	1.82E-01		2.76E+00
+		CE-141	145.44		48.40	7.18E+00	1.46E+00	1.46E+00
+		CE-143	57.36		11.80	-1.03E+07	1.62E+07	2.69E+07
			293.26		42.00	6.38E+07		1.62E+07
			664.55		5.20	1.43E+08		7.37E+07
+		CE-144	133.54		10.80	4.62E-01	2.72E+00	2.72E+00
+		PM-144	476.78		42.00	6.51E-02	3.08E-01	6.30E-01
			618.01		98.60	3.82E-02		3.08E-01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	696.49		99.49	-1.65E-02	3.08E-01	3.15E-01
+	PM-145	36.85		21.70	4.32E+00	2.33E+00	4.54E+00
		37.36		39.70	2.22E+00		2.33E+00
		42.30		15.10	-6.80E-01		3.78E+00
		72.40		2.31	-3.02E+01		1.24E+01
+	PM-146	453.90		39.94	2.38E-01	6.67E-01	6.67E-01
		735.90		14.01	-3.54E-01		2.13E+00
		747.13		13.10	-1.78E+00		2.25E+00
+	ND-147	91.11		28.90	-5.36E+01	8.66E+00	8.66E+00
		531.02		13.10	-4.72E+00		1.38E+01
+	PM-149	285.90	*	3.10	7.80E+05	3.94E+05	3.94E+05
+	EU-152	121.78		20.50	4.63E-01	1.26E+00	1.26E+00
		244.69		5.40	-6.24E+01		6.37E+00
		344.27		19.13	6.15E-01		1.48E+00
		778.89		9.20	9.82E-01		3.47E+00
		964.01		10.40	2.42E-01		3.47E+00
		1085.78		7.22	2.32E-01		4.72E+00
		1112.02		9.60	4.18E-01		3.54E+00
		1407.95		14.94	7.93E+00		3.90E+00
+	GD-153	97.43		31.30	1.04E+00	9.68E-01	9.68E-01
		103.18		22.20	-1.03E-01		1.22E+00
+	EU-154	123.07		40.50	5.59E-01	6.48E-01	6.48E-01
		723.30		19.70	-1.11E+00		1.58E+00
		873.19		11.50	-4.40E-01		3.03E+00
		996.32		10.30	-9.87E-01		3.16E+00
		1004.76		17.90	-3.49E-01		1.94E+00
		1274.45		35.50	6.58E-02		9.87E-01
+	EU-155	86.50		30.90	-1.40E+01	1.20E+00	1.35E+00
		105.30		20.70	-4.46E-01		1.20E+00
+	EU-156	811.77		10.40	4.71E+00	1.28E+01	1.28E+01
		1153.47		7.20	6.70E+01		3.04E+01
		1230.71		8.90	1.29E+00		1.60E+01
+	HO-166M	184.41		72.60	-2.34E-01	5.37E-01	5.50E-01
		280.45		29.60	8.73E-02		9.49E-01
		410.94		11.10	-1.03E+00		2.57E+00
		711.69		54.10	2.56E-02		5.37E-01
+	TM-171	66.72		0.14	4.89E+03	4.01E+02	4.01E+02
+	HF-172	81.75		4.52	-1.01E+02	2.30E+00	8.07E+00
		125.81		11.30	-5.81E-01		2.30E+00
+	LU-172	181.53		20.60	-6.80E+00	1.50E+01	3.95E+01
		810.06		16.63	1.67E+01		5.46E+01
		912.12		15.25	7.24E+01		6.88E+01
		1093.66		62.50	2.96E+00		1.50E+01
+	LU-173	100.72		5.24	-6.52E+00	2.36E+00	5.10E+00
		272.11		21.20	9.81E+00		2.36E+00
+	HF-175	343.40		84.00	1.52E-01	4.68E-01	4.68E-01
+	LU-176	88.34		13.30	1.18E+01	2.92E-01	3.04E+00
		201.83		86.00	-1.24E-01		3.40E-01
		306.78		94.00	1.84E-01		2.92E-01

00430

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TA-182	67.75	*	41.20	2.14E+01	1.57E+00	1.57E+00
		1121.30	*	34.90	3.38E+01		2.00E+00
		1189.05		16.23	-9.82E-02		2.42E+00
		1221.41		26.98	1.79E-01		1.60E+00
		1231.02		11.44	2.85E-01		3.39E+00
+	IR-192	308.46		29.68	-1.80E-01	7.52E-01	1.15E+00
		468.07		48.10	3.43E-01		7.52E-01
+	HG-203	279.19		77.30	5.36E-02	5.78E-01	5.78E-01
+	BI-207	569.67		97.72	5.09E-02	2.64E-01	2.64E-01
		1063.62		74.90	2.43E-02		4.61E-01
+	TL-208	583.14	*	30.22	1.24E+00	2.63E-01	1.42E+00
		860.37		4.48	1.15E+00		7.61E+00
		2614.66	*	35.85	6.31E-01		2.63E-01
+	BI-210M	262.00		45.00	-1.00E+00	6.06E-01	6.06E-01
		300.00		23.00	-4.39E-01		1.49E+00
+	PB-210	46.50	*	4.25	9.37E+01	2.01E+01	2.01E+01
+	PB-211	404.84	*	2.90	2.54E+01	1.83E+01	1.83E+01
		831.96	*	2.90	2.49E+01		2.49E+01
+	BI-212	727.17		11.80	1.81E+00	2.68E+00	2.68E+00
		1620.62		2.75	-1.50E+00		1.26E+01
+	PB-212	238.63	*	44.60	1.03E+00	1.40E+00	1.40E+00
		300.09	*	3.41	3.26E+01		1.98E+01
+	BI-214	609.31	*	46.30	5.96E+01	7.48E-01	7.48E-01
		1120.29	*	15.10	6.44E+01		3.80E+00
		1764.49	*	15.80	6.30E+01		2.98E+00
		2204.22	*	4.98	5.76E+01		4.01E+00
+	PB-214	295.21	*	19.19	7.04E+01	1.29E+00	3.45E+00
		351.92	*	37.19	7.45E+01		1.29E+00
+	RN-219	401.80	*	6.50	1.81E+01	8.12E+00	8.12E+00
+	RA-223	323.87	*	3.88	1.36E+01	2.50E+01	2.50E+01
+	RA-224	240.98		3.95	1.35E+02	1.38E+01	1.38E+01
+	RA-225	40.00		31.00	-2.56E+00	9.71E+00	9.71E+00
+	RA-226	186.21	*	3.28	1.04E+02	1.55E+01	1.55E+01
+	TH-227	50.10		8.40	1.77E+01	5.16E+00	5.16E+00
		236.00	*	11.50	2.06E+01		5.37E+00
		256.20	*	6.30	2.28E+01		9.39E+00
+	AC-228	338.32	*	11.40	3.31E+00	1.45E+00	8.82E+00
		911.07	*	27.70	7.23E-01		1.45E+00
		969.11	*	16.60	1.52E+00		1.93E+00
+	TH-230	48.44		16.90	-2.52E+01	2.64E+00	2.64E+00
		62.85		4.60	8.54E+00		7.27E+00
		67.67		0.37	2.31E+03		1.50E+02
+	PA-231	283.67		1.60	2.38E+01	1.47E+01	2.03E+01
		302.67		2.30	1.14E+00		1.47E+01
+	TH-231	25.64		14.70	-7.29E+01	1.69E+01	6.80E+01
		84.21	*	6.40	6.08E+01		1.69E+01
+	PA-233	311.98		38.60	-9.41E-01	1.57E+00	1.57E+00
+	PA-234	131.20		20.40	-7.09E-02	1.31E+00	1.31E+00

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	733.99		8.80	-1.73E+00	1.31E+00	3.28E+00
		946.00		12.00	-3.07E-01		2.77E+00
+	PA-234M	1001.03	*	0.92	2.45E+01	4.02E+01	4.02E+01
+	TH-234	63.29		3.80	1.03E+01	8.73E+00	8.73E+00
+	U-235	143.76		10.50	1.83E+01	3.40E+00	3.40E+00
		163.35		4.70	-5.89E+00		6.04E+00
		205.31		4.70	-6.45E-01		6.24E+00
+	NP-237	86.50		12.60	-3.39E+01	3.26E+00	3.26E+00
+	NP-239	106.10		22.70	-7.80E+03	1.33E+04	1.33E+04
		228.18		10.70	-9.44E+03		3.27E+04
		277.60		14.10	2.24E+03		2.41E+04
+	AM-241	59.54		35.90	-3.18E-02	8.98E-01	8.98E-01
+	AM-243	74.67	*	66.00	7.01E+00	1.70E+00	1.70E+00
+	CM-243	209.75		3.29	5.97E+00	1.97E+00	9.00E+00
		228.14		10.60	-7.76E-01		2.69E+00
		277.60		14.00	1.84E-01		1.97E+00

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	3.62E+00	3.62E+00	3.74E-01	1.76E+00
	NA-22	1274.54		99.94	3.57E-01	3.57E-01	2.38E-02	1.70E-01
	NA-24	1368.53		99.99	8.75E+14	1.77E+14	-6.37E+12	4.16E+14
		2754.09		99.86	1.77E+14		3.81E+13	6.26E+13
	AL-26	1808.65		99.76	2.36E-01	2.36E-01	-2.86E-02	1.08E-01
+	K-40	1460.81	*	10.67	4.99E+00	4.99E+00	1.46E+01	2.41E+00

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Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.85E-01	5.05E-01	9.02E+00	2.91E-01
		78.34		96.00	5.05E-01		5.17E+00	2.51E-01
	SC-46	889.25		99.98	4.52E-01	4.52E-01	-9.16E-02	2.18E-01
		1120.51		99.99	1.46E+00		1.24E+01	7.18E-01
	V-48	983.52		99.98	1.41E+00	1.31E+00	5.37E-01	6.79E-01
		1312.10		97.50	1.31E+00		-5.20E-01	6.21E-01
	CR-51	320.08		9.83	6.04E+00	6.04E+00	1.42E-01	2.95E+00
	MN-54	834.83		99.97	4.38E-01	4.38E-01	-4.27E-01	2.13E-01
	CO-56	846.75		99.96	4.41E-01	4.41E-01	-3.07E-03	2.13E-01
		1037.75		14.03	3.11E+00		-4.22E-01	1.49E+00
		1238.25		67.00	1.52E+00		7.54E+00	7.47E-01
		1771.40		15.51	2.43E+00		1.96E-01	1.13E+00
		2598.48		16.90	7.80E-01		3.17E-02	3.10E-01
+	CO-57	122.06	*	85.51	3.35E-01	3.35E-01	2.29E-01	1.66E-01
		136.48		10.60	2.83E+00		-8.63E-01	1.40E+00
	CO-58	810.76		99.40	4.57E-01	4.57E-01	1.39E-01	2.21E-01
	FE-59	1099.22		56.50	1.02E+00	1.02E+00	1.02E-01	4.91E-01
		1291.56		43.20	1.16E+00		-3.74E-01	5.47E-01
	CO-60	1173.22		100.00	3.45E-01	3.39E-01	2.82E-03	1.65E-01
		1332.49		100.00	3.39E-01		-1.16E-01	1.61E-01
	ZN-65	1115.52		50.75	8.14E-01	8.14E-01	-9.69E-02	3.92E-01
	GA-67	93.31		35.70	8.52E+02	8.52E+02	2.84E+02	4.23E+02
		208.95		2.24	1.19E+04		-1.14E+03	5.88E+03
		300.22		16.00	1.93E+03		-5.68E+02	9.48E+02
	SE-75	121.11		16.70	1.86E+00	5.29E-01	2.54E+00	9.18E-01
		136.00		59.20	5.59E-01		-1.28E-01	2.76E-01
		264.65		59.80	5.29E-01		-2.35E-01	2.60E-01
		279.53		25.20	1.34E+00		1.23E-01	6.57E-01
		400.65		11.40	4.08E+00		1.02E+01	2.01E+00
	RB-82	776.52		13.00	5.54E+00	5.54E+00	-1.68E+00	2.67E+00
	RB-83	520.41		46.00	6.69E-01	6.69E-01	-1.91E-02	3.23E-01
		529.64		30.30	1.03E+00		-3.74E-02	4.96E-01
		552.65		16.40	1.89E+00		-2.07E-01	9.13E-01
	KR-85	513.99		0.43	5.88E+01	5.88E+01	-4.48E+01	2.85E+01
	SR-85	513.99		99.27	3.60E-01	3.60E-01	-2.74E-01	1.74E-01
	Y-88	898.02		93.40	4.78E-01	3.72E-01	7.93E-02	2.31E-01
		1836.01		99.38	3.72E-01		-1.13E-02	1.73E-01
	NB-93M	16.57		9.43	3.82E+04	3.82E+04	9.23E+04	1.89E+04
	NB-94	702.63		100.00	3.50E-01	3.35E-01	4.30E-01	1.70E-01
		871.10		100.00	3.35E-01		-7.77E-02	1.62E-01
	NB-95	765.79		99.81	1.11E+00	1.11E+00	5.01E+00	5.45E-01
	NB-95M	235.69	*	25.00	1.15E+03	1.15E+03	4.41E+03	5.71E+02
	ZR-95	724.18		43.70	9.92E-01	7.89E-01	-7.14E-01	4.79E-01
		756.72		55.30	7.89E-01		7.39E-02	3.81E-01
	MO-99	181.06		6.20	1.53E+04	7.53E+03	2.37E+03	7.55E+03
		739.58		12.80	7.53E+03		2.22E+02	3.64E+03
		778.00		4.50	2.21E+04		3.82E+03	1.07E+04
	RU-103	497.08		89.00	4.82E-01	4.82E-01	4.81E-02	2.33E-01
	RU-106	621.84		9.80	2.91E+00	2.91E+00	2.62E-01	1.41E+00
	AG-108M	433.93		89.90	2.99E-01	2.99E-01	-7.75E-02	1.46E-01
		614.37		90.40	4.01E-01		-2.58E+01	1.95E-01
		722.95		90.50	3.42E-01		-2.40E-01	1.65E-01

Analysis Report for 1507182-05

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	CD-109	88.03	*	3.72	3.02E+01	3.02E+01	3.97E+01	1.51E+01
	AG-110M	657.75		93.14	3.41E-01	3.41E-01	1.90E-01	1.65E-01
		677.61		10.53	2.89E+00		-9.95E-01	1.40E+00
		706.67		16.46	2.25E+00		8.93E-01	1.09E+00
		763.93		21.98	1.90E+00		2.69E-01	9.24E-01
		884.67		71.63	5.18E-01		1.27E-01	2.50E-01
		1384.27		23.94	2.04E+00		2.45E-01	9.80E-01
	CD-113M	263.70		0.02	1.15E+03	1.15E+03	-6.43E+02	5.62E+02
	SN-113	255.12		1.93	2.37E+01	5.23E-01	1.03E+02	1.17E+01
		391.69		64.90	5.23E-01		8.31E-02	2.55E-01
	TE123M	159.00		84.10	4.26E-01	4.26E-01	2.50E-01	2.11E-01
	SB-124	602.71		97.87	4.62E-01	4.62E-01	-1.24E-01	2.24E-01
		645.85		7.26	5.57E+00		-1.24E+00	2.69E+00
		722.78		11.10	4.03E+00		-2.83E+00	1.95E+00
		1691.02		49.00	9.70E-01		4.53E-02	4.56E-01
	I-125	35.49		6.49	2.61E+01	2.61E+01	2.98E+01	1.29E+01
	SB-125	176.33		6.89	4.27E+00	1.09E+00	-2.71E+00	2.11E+00
		427.89		29.33	1.09E+00		1.29E+00	5.32E-01
		463.38		10.35	2.64E+00		1.56E+00	1.28E+00
		600.56		17.80	1.77E+00		-3.19E-01	8.60E-01
		635.90		11.32	2.73E+00		8.85E-01	1.33E+00
	SB-126	414.70		83.30	2.15E+00	1.83E+00	7.87E-01	1.05E+00
		666.33		99.60	2.27E+00		4.21E+00	1.11E+00
		695.00		99.60	1.83E+00		5.08E-01	8.85E-01
		720.50		53.80	3.46E+00		9.55E-01	1.67E+00
+	SN-126	87.57	*	37.00	2.90E+00	2.90E+00	3.80E+00	1.44E+00
	SB-127	473.00		25.00	3.32E+02	2.69E+02	9.68E+01	1.61E+02
		685.20		35.70	2.69E+02		1.28E+02	1.30E+02
		783.80		14.70	8.71E+02		1.65E+03	4.24E+02
	I-129	29.78		57.00	5.27E+00	5.27E+00	-3.17E+01	2.60E+00
		33.60		13.20	1.19E+01		-1.23E+01	5.85E+00
		39.58		7.52	9.32E+00		-2.45E+00	4.59E+00
	I-131	284.30		6.05	8.48E+01	5.06E+00	9.93E+01	4.17E+01
		364.48		81.20	5.06E+00		2.43E+00	2.47E+00
		636.97		7.26	6.54E+01		1.83E+01	3.17E+01
		722.89		1.80	2.71E+02		-1.90E+02	1.31E+02
	TE-132	49.72		13.10	3.05E+03	2.92E+02	1.04E+04	1.50E+03
		228.16		88.00	2.92E+02		-8.43E+01	1.44E+02
	BA-133	81.00		33.00	1.10E+00	4.29E-01	5.23E+00	5.47E-01
		302.84		17.80	1.91E+00		1.48E-01	9.39E-01
		356.01		60.00	4.29E-01		-2.58E-02	2.09E-01
	I-133	529.87		86.30	3.61E+10	3.61E+10	-1.09E+10	1.75E+10
+	XE-133	81.00	*	38.00	1.97E+02	1.97E+02	3.19E+02	9.83E+01
	CS-134	563.23		8.38	3.02E+00	3.83E-01	-1.29E+00	1.46E+00
		569.32		15.43	1.72E+00		3.31E-01	8.30E-01
		604.70		97.60	6.02E-01		-1.87E-02	2.96E-01
		795.84		85.40	3.83E-01		2.52E-01	1.85E-01
		801.93		8.73	3.81E+00		-1.13E+00	1.84E+00
	CS-135	268.24		16.00	2.63E+00	2.63E+00	-8.76E-01	1.30E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.50E+01	1.74E+00	8.06E+01	1.24E+01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	163.89		4.61	3.36E+01	1.74E+00	5.35E+00	1.66E+01
		176.55		13.56	1.15E+01		-3.94E+00	5.69E+00
		273.65		12.66	1.46E+01		-3.63E+01	7.19E+00
		340.57		48.50	3.43E+00		-1.89E+00	1.68E+00
		818.50		99.70	1.74E+00		-9.22E-02	8.41E-01
		1048.07		79.60	2.25E+00		-1.28E+00	1.08E+00
		1235.34		19.70	1.90E+01		5.78E+01	9.31E+00
	CS-137	661.65		85.12	3.46E-01	3.46E-01	1.19E-01	1.68E-01
	LA-138	788.74		34.00	1.15E+00	4.99E-01	1.68E+00	5.60E-01
		1435.80		66.00	4.99E-01		-8.87E-02	2.36E-01
	CE-139	165.85		80.35	4.21E-01	4.21E-01	1.17E-01	2.08E-01
	BA-140	162.64		6.70	2.39E+01	5.68E+00	-2.33E+01	1.18E+01
		304.84		4.50	3.87E+01		3.71E+01	1.90E+01
		423.70		3.20	5.22E+01		1.42E+01	2.55E+01
		437.55		2.00	7.83E+01		2.10E+01	3.81E+01
		537.32		25.00	5.68E+00		5.83E-02	2.75E+00
	LA-140	328.77		20.50	9.35E+00	2.76E+00	2.17E+01	4.59E+00
		487.03		45.50	3.52E+00		4.34E+00	1.71E+00
		815.85		23.50	7.35E+00		-4.03E+00	3.54E+00
		1596.49		95.49	2.76E+00		1.82E-01	1.32E+00
	CE-141	145.44		48.40	1.46E+00	1.46E+00	7.18E+00	7.23E-01
	CE-143	57.36		11.80	2.69E+07	1.62E+07	-1.03E+07	1.33E+07
		293.26		42.00	1.62E+07		6.38E+07	8.03E+06
		664.55		5.20	7.37E+07		1.43E+08	3.59E+07
	CE-144	133.54		10.80	2.72E+00	2.72E+00	4.62E-01	1.34E+00
	PM-144	476.78		42.00	6.30E-01	3.08E-01	6.51E-02	3.06E-01
		618.01		98.60	3.08E-01		3.82E-02	1.49E-01
		696.49		99.49	3.15E-01		-1.65E-02	1.52E-01
	PM-145	36.85		21.70	4.54E+00	2.33E+00	4.32E+00	2.24E+00
		37.36		39.70	2.33E+00		2.22E+00	1.15E+00
		42.30		15.10	3.78E+00		-6.80E-01	1.86E+00
		72.40		2.31	1.24E+01		-3.02E+01	6.13E+00
	PM-146	453.90		39.94	6.67E-01	6.67E-01	2.38E-01	3.24E-01
		735.90		14.01	2.13E+00		-3.54E-01	1.03E+00
		747.13		13.10	2.25E+00		-1.78E+00	1.09E+00
	ND-147	91.11		28.90	8.66E+00	8.66E+00	-5.36E+01	4.29E+00
		531.02		13.10	1.38E+01		-4.72E+00	6.69E+00
+	PM-149	285.90	*	3.10	3.94E+05	3.94E+05	7.80E+05	1.95E+05
	EU-152	121.78		20.50	1.26E+00	1.26E+00	4.63E-01	6.23E-01
		244.69		5.40	6.37E+00		-6.24E+01	3.14E+00
		344.27		19.13	1.48E+00		6.15E-01	7.23E-01
		778.89		9.20	3.47E+00		9.82E-01	1.68E+00
		964.01		10.40	3.47E+00		2.42E-01	1.67E+00
		1085.78		7.22	4.72E+00		2.32E-01	2.26E+00
		1112.02		9.60	3.54E+00		4.18E-01	1.70E+00
		1407.95		14.94	3.90E+00		7.93E+00	1.89E+00
	GD-153	97.43		31.30	9.68E-01	9.68E-01	1.04E+00	4.79E-01
		103.18		22.20	1.22E+00		-1.03E-01	6.04E-01
	EU-154	123.07		40.50	6.48E-01	6.48E-01	5.59E-01	3.20E-01
		723.30		19.70	1.58E+00		-1.11E+00	7.64E-01
		873.19		11.50	3.03E+00		-4.40E-01	1.46E+00
		996.32		10.30	3.16E+00		-9.87E-01	1.52E+00
		1004.76		17.90	1.94E+00		-3.49E-01	9.34E-01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	9.87E-01	6.48E-01	6.58E-02	4.71E-01
	EU-155	86.50		30.90	1.35E+00	1.20E+00	-1.40E+01	6.69E-01
		105.30		20.70	1.20E+00		-4.46E-01	5.92E-01
	EU-156	811.77		10.40	1.28E+01	1.28E+01	4.71E+00	6.16E+00
		1153.47		7.20	3.04E+01		6.70E+01	1.48E+01
		1230.71		8.90	1.60E+01		1.29E+00	7.63E+00
	HO-166M	184.41		72.60	5.50E-01	5.37E-01	-2.34E-01	2.72E-01
		280.45		29.60	9.49E-01		8.73E-02	4.66E-01
		410.94		11.10	2.57E+00		-1.03E+00	1.25E+00
		711.69		54.10	5.37E-01		2.56E-02	2.59E-01
	TM-171	66.72		0.14	4.01E+02	4.01E+02	4.89E+03	1.99E+02
	HF-172	81.75		4.52	8.07E+00	2.30E+00	-1.01E+02	4.00E+00
		125.81		11.30	2.30E+00		-5.81E-01	1.14E+00
	LU-172	181.53		20.60	3.95E+01	1.50E+01	-6.80E+00	1.95E+01
		810.06		16.63	5.46E+01		1.67E+01	2.64E+01
		912.12		15.25	6.88E+01		7.24E+01	3.33E+01
		1093.66		62.50	1.50E+01		2.96E+00	7.19E+00
	LU-173	100.72		5.24	5.10E+00	2.36E+00	-6.52E+00	2.52E+00
		272.11		21.20	2.36E+00		9.81E+00	1.17E+00
	HF-175	343.40		84.00	4.68E-01	4.68E-01	1.52E-01	2.29E-01
	LU-176	88.34		13.30	3.04E+00	2.92E-01	1.18E+01	1.51E+00
		201.83		86.00	3.40E-01		-1.24E-01	1.67E-01
		306.78		94.00	2.92E-01		1.84E-01	1.43E-01
+	TA-182	67.75	*	41.20	1.57E+00	1.57E+00	2.14E+01	7.79E-01
		1121.30	*	34.90	2.00E+00		3.38E+01	9.73E-01
		1189.05		16.23	2.42E+00		-9.82E-02	1.15E+00
		1221.41		26.98	1.60E+00		1.79E-01	7.64E-01
		1231.02		11.44	3.39E+00		2.85E-01	1.61E+00
	IR-192	308.46		29.68	1.15E+00	7.52E-01	-1.80E-01	5.64E-01
		468.07		48.10	7.52E-01		3.43E-01	3.66E-01
	HG-203	279.19		77.30	5.78E-01	5.78E-01	5.36E-02	2.84E-01
	BI-207	569.67		97.72	2.64E-01	2.64E-01	5.09E-02	1.27E-01
		1063.62		74.90	4.61E-01		2.43E-02	2.21E-01
+	TL-208	583.14	*	30.22	1.42E+00	2.63E-01	1.24E+00	6.94E-01
		860.37		4.48	7.61E+00		1.15E+00	3.67E+00
		2614.66	*	35.85	2.63E-01		6.31E-01	1.03E-01
	BI-210M	262.00		45.00	6.06E-01	6.06E-01	-1.00E+00	2.97E-01
		300.00		23.00	1.49E+00		-4.39E-01	7.33E-01
+	PB-210	46.50	*	4.25	2.01E+01	2.01E+01	9.37E+01	9.99E+00
+	PB-211	404.84	*	2.90	1.83E+01	1.83E+01	2.54E+01	9.04E+00
		831.96	*	2.90	2.49E+01		2.49E+01	1.22E+01
	BI-212	727.17		11.80	2.68E+00	2.68E+00	1.81E+00	1.30E+00
		1620.62		2.75	1.26E+01		-1.50E+00	5.95E+00
+	PB-212	238.63	*	44.60	1.40E+00	1.40E+00	1.03E+00	6.93E-01
		300.09	*	3.41	1.98E+01		3.26E+01	9.84E+00
+	BI-214	609.31	*	46.30	7.48E-01	7.48E-01	5.96E+01	3.64E-01
		1120.29	*	15.10	3.80E+00		6.44E+01	1.85E+00
		1764.49	*	15.80	2.98E+00		6.30E+01	1.43E+00
		2204.22	*	4.98	4.01E+00		5.76E+01	1.80E+00
+	PB-214	295.21	*	19.19	3.45E+00	1.29E+00	7.04E+01	1.71E+00
		351.92	*	37.19	1.29E+00		7.45E+01	6.38E-01
+	RN-219	401.80	*	6.50	8.12E+00	8.12E+00	1.81E+01	4.01E+00
+	RA-223	323.87	*	3.88	2.50E+01	2.50E+01	1.36E+01	1.24E+01

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RA-224	240.98		3.95	1.38E+01	1.38E+01	1.35E+02	6.85E+00
	RA-225	40.00		31.00	9.71E+00	9.71E+00	-2.56E+00	4.78E+00
+	RA-226	186.21	*	3.28	1.55E+01	1.55E+01	1.04E+02	7.67E+00
+	TH-227	50.10		8.40	5.16E+00	5.16E+00	1.77E+01	2.55E+00
		236.00	*	11.50	5.37E+00		2.06E+01	2.66E+00
		256.20	*	6.30	9.39E+00		2.28E+01	4.65E+00
+	AC-228	338.32	*	11.40	8.82E+00	1.45E+00	3.31E+00	4.38E+00
		911.07	*	27.70	1.45E+00		7.23E-01	7.05E-01
		969.11	*	16.60	1.93E+00		1.52E+00	9.27E-01
	TH-230	48.44		16.90	2.64E+00	2.64E+00	-2.52E+01	1.30E+00
		62.85		4.60	7.27E+00		8.54E+00	3.59E+00
		67.67		0.37	1.50E+02		2.31E+03	7.43E+01
	PA-231	283.67		1.60	2.03E+01	1.47E+01	2.38E+01	9.99E+00
		302.67		2.30	1.47E+01		1.14E+00	7.23E+00
+	TH-231	25.64		14.70	6.80E+01	1.69E+01	-7.29E+01	3.35E+01
		84.21	*	6.40	1.69E+01		6.08E+01	8.41E+00
	PA-233	311.98		38.60	1.57E+00	1.57E+00	-9.41E-01	7.69E-01
	PA-234	131.20		20.40	1.31E+00	1.31E+00	-7.09E-02	6.47E-01
		733.99		8.80	3.28E+00		-1.73E+00	1.58E+00
		946.00		12.00	2.77E+00		-3.07E-01	1.33E+00
+	PA-234M	1001.03	*	0.92	4.02E+01	4.02E+01	2.45E+01	1.94E+01
	TH-234	63.29		3.80	8.73E+00	8.73E+00	1.03E+01	4.32E+00
	U-235	143.76		10.50	3.40E+00	3.40E+00	1.83E+01	1.68E+00
		163.35		4.70	6.04E+00		-5.89E+00	2.98E+00
		205.31		4.70	6.24E+00		-6.45E-01	3.07E+00
	NP-237	86.50		12.60	3.26E+00	3.26E+00	-3.39E+01	1.62E+00
	NP-239	106.10		22.70	1.33E+04	1.33E+04	-7.80E+03	6.55E+03
		228.18		10.70	3.27E+04		-9.44E+03	1.61E+04
		277.60		14.10	2.41E+04		2.24E+03	1.18E+04
	AM-241	59.54		35.90	8.98E-01	8.98E-01	-3.18E-02	4.44E-01
+	AM-243	74.67	*	66.00	1.70E+00	1.70E+00	7.01E+00	8.49E-01
	CM-243	209.75		3.29	9.00E+00	1.97E+00	5.97E+00	4.44E+00
		228.14		10.60	2.69E+00		-7.76E-01	1.32E+00
		277.60		14.00	1.97E+00		1.84E-01	9.68E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1507182-05

FEEBRIS1D-5 051-052

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-5 051-052

Elapsed Live time: 3600
Elapsed Real Time: 3606

Channel								
1:	0	0	0	0	0	0	0	381
9:	899	1443	1477	1147	1656	2460	2151	2132
17:	698	1254	754	445	440	404	411	408
25:	440	425	578	624	440	412	461	861
33:	686	405	468	473	600	465	447	455
41:	535	511	500	561	581	1092	2220	649
49:	493	973	879	548	751	836	622	683
57:	662	700	753	825	838	865	1056	1061
65:	924	961	1974	6071	1498	770	904	882
73:	985	1310	3501	1676	4535	3114	1095	1359
81:	2126	1475	1149	3494	1335	821	1658	1786
89:	1004	1156	765	603	795	949	1376	629
97:	552	712	550	522	482	465	487	467
105:	428	436	442	471	467	416	445	423
113:	539	438	417	458	441	391	416	420
121:	390	544	516	399	452	422	386	445
129:	464	464	442	450	462	468	457	480
137:	465	460	486	494	451	458	579	1395
145:	842	446	424	456	485	481	469	491
153:	527	981	793	478	449	481	511	461
161:	398	419	406	416	381	435	409	397
169:	389	389	402	405	370	401	361	381
177:	370	376	426	394	363	387	398	392
185:	501	1771	1171	400	385	357	394	351
193:	382	368	349	344	343	358	335	330
201:	331	360	295	311	342	341	314	300
209:	308	333	356	287	277	271	279	275
217:	280	287	255	245	266	269	252	270
225:	257	271	249	276	250	262	281	262
233:	230	250	439	1211	502	344	420	276
241:	628	2328	881	225	216	210	196	226
249:	207	233	232	213	254	340	313	619
257:	468	219	338	243	215	186	176	171
265:	196	179	186	200	766	986	884	570
273:	241	255	240	181	180	217	169	188
281:	188	196	225	288	229	330	235	201
289:	180	155	169	148	180	580	4190	2420
297:	239	154	211	443	266	235	297	220
305:	238	125	146	148	148	116	155	155
313:	158	159	176	157	145	147	152	147
321:	149	122	181	313	199	139	141	185
329:	216	371	210	161	161	207	175	139
337:	151	271	254	156	155	150	173	149
345:	124	128	120	130	169	335	3002	7578
353:	1921	122	116	107	119	105	118	109
361:	83	118	95	126	122	110	117	121

369:	103	128	115	146	124	127	118	103

Sample Title: FEEBRIS1D-5 051-052

Channel								
377:	120	99	108	115	110	106	106	119
385:	116	148	163	156	167	144	112	100
393:	104	136	115	120	125	109	126	127
401:	251	415	200	177	304	149	127	125
409:	116	108	117	122	115	120	128	135
417:	136	127	107	129	122	125	125	125
425:	96	122	182	164	92	97	101	95
433:	96	88	93	102	93	109	99	96
441:	93	104	74	111	149	112	80	103
449:	105	75	79	81	77	76	106	86
457:	74	84	67	71	76	99	101	82
465:	67	71	81	87	83	101	83	70
473:	82	84	75	74	63	68	73	90
481:	104	74	56	69	73	92	127	88
489:	66	64	67	50	54	72	73	57
497:	64	62	63	62	61	60	52	60
505:	41	66	68	61	83	97	142	101
513:	60	58	53	57	53	63	61	52
521:	54	52	62	54	57	43	50	73
529:	63	41	54	48	74	63	60	50
537:	74	59	57	54	54	56	79	54
545:	49	60	65	65	62	59	50	43
553:	62	48	48	59	53	72	53	53
561:	49	67	56	50	45	60	69	48
569:	54	68	50	56	56	64	54	55
577:	57	50	61	84	78	75	119	55
585:	52	51	42	42	46	46	46	44
593:	38	52	57	40	52	54	65	58
601:	52	53	53	64	65	51	76	985
609:	4553	2762	238	38	43	41	55	51
617:	54	43	28	40	46	37	40	39
625:	46	39	48	42	46	32	53	38
633:	55	48	58	38	57	39	46	50
641:	38	48	37	42	40	42	39	46
649:	37	39	47	33	32	38	42	33
657:	44	41	43	42	52	34	39	51
665:	154	129	44	54	30	41	46	42
673:	46	33	41	34	31	36	42	43
681:	36	41	45	52	34	46	45	39
689:	34	38	34	51	35	48	52	38
697:	40	36	30	54	39	51	79	73
705:	67	43	39	27	35	48	47	37
713:	29	38	35	32	25	44	51	56
721:	48	37	34	46	40	29	50	52
729:	39	45	30	39	43	37	36	34
737:	27	40	40	31	52	45	47	32
745:	35	37	39	40	40	21	34	49
753:	42	33	36	43	34	42	38	30
761:	38	43	30	37	57	64	142	395
769:	264	78	30	37	29	42	28	45
777:	45	27	30	51	38	36	36	45
785:	88	126	70	30	30	35	31	40
793:	35	44	41	26	30	50	36	31

801:	21	38	34	35	73	119	71	32

Sample Title: FEEBRIS1D-5 051-052

Channel								
809:	28	35	31	52	29	32	30	31
817:	40	35	34	42	45	46	46	25
825:	37	34	43	34	31	46	74	137
833:	63	32	47	44	38	44	96	57
841:	38	40	36	38	32	45	29	40
849:	40	35	39	34	22	29	32	32
857:	43	29	42	40	40	32	40	40
865:	39	43	27	31	34	39	40	37
873:	36	34	45	37	38	53	41	29
881:	27	38	40	45	33	28	41	32
889:	32	40	48	40	46	34	40	42
897:	40	46	47	37	29	26	48	38
905:	53	40	32	31	43	49	60	49
913:	30	36	40	32	30	34	32	40
921:	35	33	27	37	33	33	40	26
929:	36	34	35	41	140	230	127	38
937:	35	34	28	29	38	32	19	28
945:	32	36	25	38	37	32	26	31
953:	33	27	29	25	24	41	37	31
961:	29	29	44	46	36	27	34	35
969:	54	26	32	21	22	30	39	32
977:	36	24	31	25	36	35	30	30
985:	31	39	31	27	33	38	37	27
993:	17	26	28	27	23	33	32	33
1001:	51	31	20	31	35	16	26	36
1009:	29	35	33	31	31	24	31	29
1017:	31	31	20	31	32	22	28	36
1025:	21	28	27	31	18	40	27	33
1033:	29	29	23	23	26	32	21	26
1041:	25	23	28	24	33	25	26	18
1049:	29	21	28	42	27	25	26	31
1057:	29	30	24	25	29	25	33	27
1065:	23	28	24	27	40	42	39	28
1073:	25	21	26	27	32	18	15	27
1081:	27	27	24	24	28	25	31	19
1089:	19	28	19	26	28	20	29	29
1097:	29	26	20	20	32	32	24	30
1105:	30	27	25	26	35	24	28	23
1113:	15	22	23	30	23	76	342	836
1121:	529	103	32	20	25	21	27	27
1129:	19	19	16	32	48	25	20	22
1137:	15	24	29	21	20	32	32	28
1145:	24	26	20	25	24	31	43	18
1153:	29	68	114	69	23	24	25	21
1161:	25	18	29	21	21	30	17	28
1169:	17	23	21	24	20	31	21	18
1177:	23	22	13	19	33	50	21	26
1185:	22	25	19	13	22	12	21	26
1193:	18	16	22	13	15	24	26	24
1201:	18	16	15	16	22	18	52	42
1209:	31	20	27	29	28	21	15	23
1217:	17	24	23	27	17	24	21	25
1225:	29	18	24	17	21	19	14	24

1233:	18	14	27	51	192	307	138	45

Sample Title: FEEBRIS1D-5 051-052

Channel								
1241:	18	16	21	26	19	17	20	20
1249:	31	16	32	35	34	28	27	16
1257:	16	17	15	18	12	16	15	21
1265:	34	18	22	20	22	17	28	25
1273:	19	18	22	23	9	15	28	58
1281:	74	41	21	30	21	28	25	13
1289:	17	9	21	17	11	18	19	23
1297:	22	17	22	16	23	7	21	10
1305:	26	14	17	24	22	18	15	14
1313:	22	14	9	18	19	22	20	24
1321:	17	25	25	17	16	17	16	19
1329:	20	19	16	18	11	19	21	27
1337:	18	13	13	15	12	15	22	19
1345:	16	17	8	17	25	21	24	14
1353:	16	21	19	11	16	17	10	16
1361:	9	19	21	25	15	17	15	19
1369:	19	19	18	13	13	17	17	59
1377:	178	161	64	18	21	14	31	27
1385:	51	48	21	18	18	18	18	15
1393:	22	18	10	16	16	21	18	35
1401:	92	47	21	11	19	37	85	115
1409:	61	30	15	15	11	18	20	15
1417:	19	21	11	7	20	18	18	21
1425:	26	11	22	12	21	18	23	15
1433:	18	24	7	13	16	14	12	19
1441:	19	16	13	12	24	14	18	23
1449:	24	26	11	17	13	14	16	23
1457:	14	24	42	87	97	51	20	12
1465:	11	13	15	21	15	23	14	11
1473:	17	28	14	22	19	20	19	22
1481:	16	21	15	16	18	21	18	18
1489:	12	15	16	15	23	13	12	24
1497:	21	15	14	29	15	22	21	25
1505:	19	13	23	61	102	62	35	21
1513:	20	20	17	21	22	15	21	21
1521:	13	26	20	23	21	13	16	26
1529:	24	15	14	18	18	24	20	16
1537:	24	36	32	17	13	29	33	28
1545:	22	12	18	12	19	16	6	17
1553:	16	20	13	10	11	7	17	15
1561:	9	15	12	16	13	10	10	17
1569:	11	13	12	13	14	6	10	15
1577:	12	19	15	14	15	18	39	21
1585:	19	9	14	24	17	15	16	14
1593:	21	20	22	20	20	22	34	18
1601:	8	12	17	10	13	9	14	10
1609:	18	14	14	4	6	14	12	11
1617:	9	14	9	16	12	12	6	12
1625:	11	11	12	9	8	13	12	7
1633:	7	8	14	7	5	4	6	10
1641:	7	9	9	6	7	12	11	6
1649:	6	6	11	9	11	7	8	6
1657:	5	13	11	25	38	24	13	9

1665:	9	3	4	5	7	4	9	5

Sample Title: FEEBRIS1D-5 051-052

Channel								
1673:	2	8	4	6	4	9	8	3
1681:	5	10	9	12	9	5	7	9
1689:	6	9	12	11	13	14	12	4
1697:	3	7	5	7	9	7	4	4
1705:	7	1	3	9	8	8	6	8
1713:	5	5	5	3	0	1	5	4
1721:	5	10	6	8	13	10	15	55
1729:	120	97	28	12	5	4	4	4
1737:	8	6	8	5	5	3	2	6
1745:	7	8	3	4	3	5	7	8
1753:	3	7	3	3	8	5	8	4
1761:	14	70	279	517	403	103	25	5
1769:	3	7	5	4	5	3	3	2
1777:	3	0	5	4	8	8	4	3
1785:	1	11	8	3	5	8	6	7
1793:	2	3	10	7	1	1	6	7
1801:	5	2	6	8	3	5	4	5
1809:	9	2	0	3	5	6	4	5
1817:	3	5	4	4	4	6	4	3
1825:	6	5	4	4	1	6	4	5
1833:	4	9	4	4	8	14	13	10
1841:	4	7	3	4	21	59	70	41
1849:	19	5	4	2	6	7	3	4
1857:	1	4	4	2	5	1	5	7
1865:	3	4	5	5	7	8	2	12
1873:	15	10	5	5	5	6	4	5
1881:	6	2	5	8	2	4	3	6
1889:	5	7	7	5	4	2	8	8
1897:	10	7	10	1	3	4	4	5
1905:	1	9	1	1	0	3	4	5
1913:	4	4	1	2	5	4	3	2
1921:	3	9	5	2	4	4	6	2
1929:	2	6	2	7	6	8	9	14
1937:	10	12	6	6	4	7	1	3
1945:	10	5	7	2	7	7	2	4
1953:	4	3	4	5	2	3	6	5
1961:	3	8	3	3	7	3	3	5
1969:	6	5	3	3	7	5	4	4
1977:	5	2	7	3	4	4	8	4
1985:	4	3	2	1	2	3	3	1
1993:	8	4	2	6	6	7	2	3
2001:	1	4	2	2	4	3	7	5
2009:	5	5	5	5	2	3	1	6
2017:	3	7	0	4	5	6	5	1
2025:	2	2	6	2	2	4	2	1
2033:	3	0	8	3	3	4	3	3
2041:	1	2	3	2	2	4	2	0
2049:	3	1	4	9	2	3	2	2
2057:	3	1	1	3	4	1	2	4
2065:	5	4	2	2	2	2	4	2
2073:	2	3	5	3	2	1	4	0
2081:	4	4	2	5	2	5	0	4
2089:	5	4	5	3	1	6	2	2

2097:	1	1	1	2	2	1	3	2

Sample Title: FEEBRIS1D-5 051-052

Channel								
2105:	4	3	2	3	3	3	0	0
2113:	4	3	3	7	18	27	20	5
2121:	4	0	2	1	1	3	1	3
2129:	3	0	1	0	4	3	0	1
2137:	0	1	0	1	3	2	3	3
2145:	3	1	2	2	0	1	1	1
2153:	3	1	2	0	0	0	2	2
2161:	4	1	3	3	2	2	1	0
2169:	1	2	1	0	1	0	2	1
2177:	1	0	0	0	0	0	1	1
2185:	1	2	4	0	0	1	3	2
2193:	8	1	2	2	1	3	1	4
2201:	19	41	97	133	56	21	4	0
2209:	1	1	1	2	2	2	0	0
2217:	1	2	2	1	0	2	1	5
2225:	1	2	3	2	4	1	2	1
2233:	1	2	0	4	2	3	2	0
2241:	1	0	1	4	1	2	1	2
2249:	4	1	2	4	0	1	3	0
2257:	4	0	3	1	0	1	1	2
2265:	3	2	0	0	2	2	1	1
2273:	1	1	4	1	0	2	0	0
2281:	0	1	1	3	0	2	2	2
2289:	1	2	3	9	7	2	2	1
2297:	2	2	0	0	0	2	0	0
2305:	1	1	1	3	0	2	0	1
2313:	1	2	1	0	0	1	1	1
2321:	0	3	0	1	1	0	1	2
2329:	2	0	1	1	0	3	1	1
2337:	0	2	0	0	3	1	0	0
2345:	0	0	1	0	3	0	0	1
2353:	1	1	2	4	2	2	0	2
2361:	2	0	0	1	2	3	0	2
2369:	0	1	1	2	0	0	2	1
2377:	1	1	1	0	0	0	0	0
2385:	0	1	0	3	0	0	1	0
2393:	1	1	0	1	0	3	0	0
2401:	0	0	0	1	1	0	0	1
2409:	1	1	0	1	0	1	1	0
2417:	0	0	0	1	0	2	1	0
2425:	1	1	2	0	0	0	0	0
2433:	1	0	0	1	0	1	1	1
2441:	1	1	2	1	10	25	36	23
2449:	16	1	2	0	0	1	0	0
2457:	0	0	0	2	0	0	0	0
2465:	0	1	0	1	1	0	1	0
2473:	0	4	0	0	0	0	0	0
2481:	0	0	2	1	0	0	0	2
2489:	1	0	1	1	0	2	0	0
2497:	1	0	1	0	1	1	1	1
2505:	1	0	0	0	1	0	1	0
2513:	0	1	0	0	0	1	0	0
2521:	0	0	2	1	0	1	0	0

2529:	0	1	0	0	0	2	1	0

Sample Title: FEEBRIS1D-5 051-052

Channel								
2537:	2	0	0	0	0	2	1	0
2545:	0	1	0	0	1	0	0	0
2553:	0	1	1	0	0	0	1	1
2561:	0	0	1	2	0	0	0	0
2569:	0	0	1	0	2	0	2	0
2577:	0	0	1	0	0	1	0	0
2585:	1	0	2	0	1	1	0	0
2593:	1	1	0	0	1	0	0	1
2601:	2	0	1	1	0	2	0	0
2609:	1	1	1	2	11	12	4	2
2617:	2	2	0	0	1	0	0	0
2625:	0	0	1	0	0	0	0	1
2633:	1	0	0	0	1	0	0	1
2641:	0	1	1	0	0	0	0	0
2649:	0	1	0	0	0	0	0	0
2657:	0	0	1	0	0	0	0	0
2665:	0	0	0	0	1	1	0	1
2673:	0	0	2	0	0	0	0	0
2681:	0	1	0	0	0	0	0	0
2689:	0	0	0	0	0	0	1	1
2697:	3	1	0	0	0	0	1	0
2705:	0	0	0	0	0	0	0	1
2713:	0	0	0	0	2	0	0	0
2721:	1	0	0	0	0	0	0	1
2729:	1	0	0	0	0	0	0	0
2737:	0	0	0	1	0	0	0	0
2745:	0	0	0	0	0	1	0	1
2753:	0	0	0	0	0	0	0	0
2761:	3	0	0	0	1	0	1	1
2769:	0	1	1	0	0	0	0	2
2777:	0	0	0	0	0	0	0	0
2785:	1	1	0	0	0	0	0	0
2793:	0	1	0	0	0	0	0	0
2801:	0	1	1	0	0	0	0	0
2809:	2	0	0	0	0	1	0	0
2817:	0	0	1	0	0	1	0	0
2825:	0	1	0	1	0	0	0	1
2833:	0	0	1	0	0	0	0	1
2841:	0	0	0	1	1	0	1	0
2849:	0	0	0	0	1	0	1	0
2857:	1	0	0	0	0	0	0	0
2865:	0	0	0	1	0	0	0	0
2873:	0	0	0	0	1	0	0	1
2881:	0	0	0	1	0	1	1	1
2889:	0	0	0	0	1	0	1	0
2897:	1	0	0	0	1	0	1	0
2905:	1	0	0	0	1	0	0	0
2913:	0	0	0	1	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	1	0	0	1	0	0	0
2937:	0	0	0	1	0	0	0	0
2945:	0	0	0	1	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	1	0	1	0	1	0	1

Sample Title: FEEBRIS1D-5 051-052

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	1	0
2985:	0	0	0	0	0	1	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	2	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	1	0	0	0	0
3025:	0	0	0	1	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	1	0	0	0	0	0	0
3049:	0	1	0	0	2	0	0	0
3057:	0	1	0	0	0	2	1	0
3065:	0	0	0	0	0	0	0	0
3073:	0	1	0	0	0	0	1	0
3081:	0	0	0	0	0	0	0	1
3089:	0	0	1	0	0	1	0	1
3097:	0	0	0	0	0	0	0	0
3105:	0	2	0	0	0	0	1	0
3113:	0	0	0	0	1	1	1	0
3121:	0	0	0	0	0	0	0	1
3129:	0	0	0	0	1	1	1	0
3137:	0	0	0	0	0	1	0	0
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	1	0	0	0
3169:	1	0	1	1	0	0	0	0
3177:	0	0	0	0	0	0	1	0
3185:	1	0	0	0	0	1	0	0
3193:	0	0	0	2	0	0	0	0
3201:	2	0	0	0	0	0	0	0
3209:	0	1	2	0	0	0	0	0
3217:	1	0	0	0	1	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	2	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	1	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	1
3273:	0	0	0	0	0	0	1	1
3281:	0	0	0	0	0	0	0	0
3289:	1	0	0	0	0	0	1	1
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	1
3313:	0	0	0	0	1	1	0	0
3321:	0	0	0	0	1	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	1	0	0	0	1	0	0	0
3345:	0	0	0	0	0	0	1	0
3353:	0	0	0	0	0	0	0	0
3361:	0	1	0	0	0	0	0	0
3369:	0	1	0	0	1	0	0	0
3377:	0	0	0	1	0	0	0	0
3385:	0	1	0	0	1	0	0	0

3393:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-5 051-052

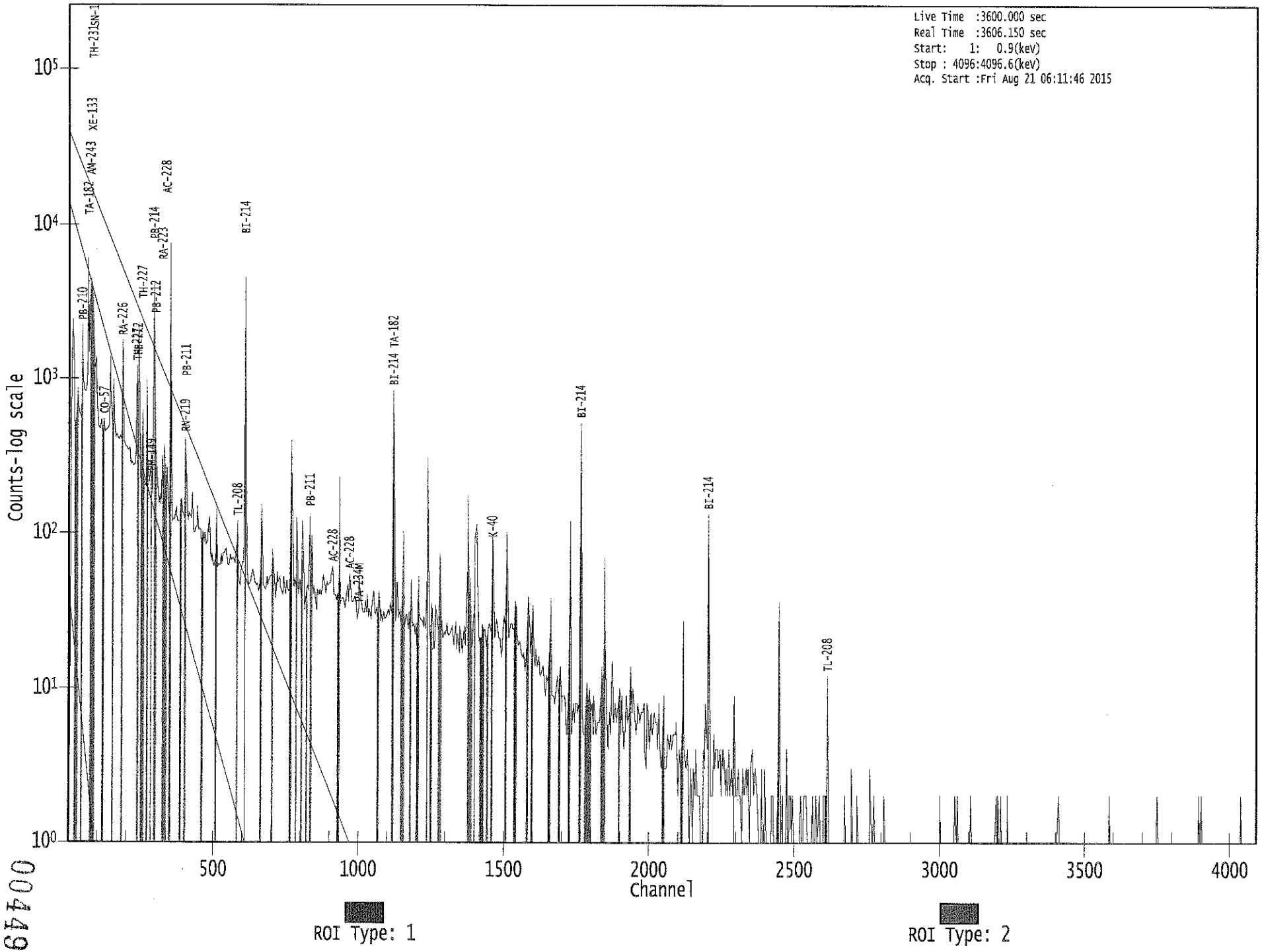
Channel								
3401:	0	0	1	1	1	0	0	0
3409:	0	0	2	0	0	0	0	0
3417:	0	1	0	0	0	0	0	0
3425:	0	0	1	1	0	1	1	1
3433:	0	0	0	1	0	0	0	0
3441:	0	0	0	0	0	0	0	1
3449:	0	0	0	0	0	0	0	1
3457:	0	0	0	1	0	0	0	0
3465:	0	0	0	0	0	0	0	1
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	1	0	0	0
3489:	0	1	0	0	0	0	1	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	1	0	0
3513:	0	0	0	1	1	0	0	1
3521:	0	1	0	0	0	0	1	0
3529:	0	0	1	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	2	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	1	1
3609:	0	0	0	0	0	0	0	0
3617:	0	0	1	0	0	1	0	1
3625:	0	1	0	0	0	0	1	0
3633:	0	0	0	0	0	0	0	0
3641:	0	1	0	0	0	0	0	0
3649:	0	0	0	1	0	0	1	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	1	0	0	1	0
3673:	1	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	1
3689:	0	0	0	0	0	1	0	0
3697:	0	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	1	0	0
3729:	1	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	1	0	0	0	2	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	1	0	0	0	0	0	0	0
3777:	0	1	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	1	0	1	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-5 051-052

Channel								
3833:	0	0	1	0	0	0	0	1
3841:	0	0	1	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	1	0	0	1	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	2	0	1	0
3897:	0	0	0	0	0	2	0	0
3905:	1	0	0	0	0	0	0	0
3913:	0	1	0	0	0	0	0	0
3921:	0	1	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	1	0	0	0	0	0	0
3945:	1	0	0	0	0	1	0	0
3953:	0	0	1	1	0	0	0	0
3961:	0	0	1	0	0	0	0	0
3969:	1	0	0	0	0	0	0	1
3977:	0	0	0	0	0	0	0	0
3985:	0	0	1	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	1	0	0
4009:	1	0	0	0	0	0	1	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	1	0
4033:	0	0	0	0	1	0	2	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	1	0	0
4057:	0	0	1	0	0	0	0	0
4065:	0	0	0	1	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026226.CNF



00449

Apex-Gamma

Analysis Report for 1507182-06
FEEBRIS1D-6 080-081

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-06
Sample Description	: FEEBRIS1D-6 080-081
Sample Type	: SOIL
Sample Size	: 2.646E+02 grams
Facility	: Countroom
Sample Taken On	: 7/21/2015 6:45:40AM
Acquisition Started	: 8/21/2015 7:16:41AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.7 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26231

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

00450

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 8:16:57AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	73.24	73.33	0.0000	0.00
2	76.58	76.67	0.0000	0.00
3	105.24	105.31	0.0000	0.00
4	133.48	133.54	0.0000	0.00
5	186.02	186.05	0.0000	0.00
6	210.21	210.23	0.0000	0.00
7	238.98	238.98	0.0000	0.00
8	242.05	242.04	0.0000	0.00
9	295.26	295.23	0.0000	0.00
10	301.54	301.50	0.0000	0.00
11	338.34	338.29	0.0000	0.00
12	352.00	351.93	0.0000	0.00
13	446.76	446.64	0.0000	0.00
14	482.47	482.34	0.0000	0.00
15	583.07	582.89	0.0000	0.00
16	609.08	608.89	0.0000	0.00
17	621.09	620.89	0.0000	0.00
18	633.05	632.85	0.0000	0.00
19	649.21	649.00	0.0000	0.00
20	655.21	655.00	0.0000	0.00
21	727.54	727.30	0.0000	0.00
22	766.80	766.54	0.0000	0.00
23	813.73	813.44	0.0000	0.00
24	860.61	860.31	0.0000	0.00
25	891.55	891.24	0.0000	0.00
26	911.45	911.12	0.0000	0.00
27	923.28	922.95	0.0000	0.00
28	969.27	968.92	0.0000	0.00
29	973.55	973.20	0.0000	0.00
30	1002.01	1001.65	0.0000	0.00
31	1048.77	1048.38	0.0000	0.00
32	1120.61	1120.20	0.0000	0.00
33	1186.80	1186.37	0.0000	0.00
34	1407.60	1407.09	0.0000	0.00
35	1432.81	1432.30	0.0000	0.00
36	1461.35	1460.83	0.0000	0.00
37	1501.33	1500.79	0.0000	0.00
38	1508.64	1508.11	0.0000	0.00
39	1539.48	1538.94	0.0000	0.00
40	1649.76	1649.18	0.0000	0.00
41	1766.73	1766.13	0.0000	0.00
42	1938.24	1937.60	0.0000	0.00

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	2213.53	2212.83	0.0000	0.00
44	2354.08	2353.36	0.0000	0.00
45	2614.56	2613.82	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 8:16:57AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	73.24	71 -	79	73.33	4.39E+01	33.35	2.46E+02	1.33
m	2	76.58	71 -	79	76.67	2.00E+02	50.75	2.21E+02	1.33
	3	105.24	103 -	108	105.31	4.01E+01	40.15	2.94E+02	2.73
	4	133.48	131 -	136	133.54	4.36E+01	38.96	2.67E+02	3.85
	5	186.02	184 -	188	186.05	1.05E+02	33.70	1.58E+02	1.56
	6	210.21	206 -	213	210.23	5.39E+01	44.86	2.90E+02	3.61
M	7	238.98	236 -	246	238.98	2.67E+02	40.69	1.28E+02	1.41
m	8	242.05	236 -	246	242.04	3.78E+01	27.86	1.08E+02	1.42
	9	295.26	292 -	299	295.23	4.66E+01	36.28	1.89E+02	1.75
	10	301.54	299 -	304	301.50	2.23E+01	24.80	1.05E+02	3.78
	11	338.34	336 -	341	338.29	4.15E+01	28.09	1.27E+02	1.52
	12	352.00	348 -	355	351.93	1.29E+02	36.82	1.41E+02	1.36
	13	446.76	444 -	450	446.64	1.74E+01	22.41	6.92E+01	2.35
	14	482.47	480 -	485	482.34	1.35E+01	17.46	4.89E+01	1.20
	15	583.07	578 -	585	582.89	1.10E+02	28.28	6.05E+01	1.64
	16	609.08	603 -	614	608.89	1.01E+02	36.28	1.14E+02	1.70
	17	621.09	618 -	624	620.89	2.22E+01	18.85	4.76E+01	3.11
	18	633.05	629 -	636	632.85	1.75E+01	20.10	5.51E+01	1.39
M	19	649.21	647 -	671	649.00	1.25E+01	8.02	6.59E+00	1.74
m	20	655.21	647 -	671	655.00	1.51E+01	12.01	1.65E+01	1.74
	21	727.54	723 -	731	727.30	2.44E+01	23.75	7.13E+01	1.67
	22	766.80	762 -	772	766.54	2.16E+01	25.00	7.28E+01	1.88
	23	813.73	807 -	822	813.44	2.26E+01	23.92	4.88E+01	12.18
	24	860.61	858 -	863	860.31	1.05E+01	12.29	2.29E+01	1.48
	25	891.55	886 -	896	891.24	2.05E+01	17.71	2.51E+01	6.81
	26	911.45	907 -	918	911.12	7.14E+01	24.17	4.11E+01	2.81
	27	923.28	920 -	925	922.95	1.17E+01	11.00	1.46E+01	1.84
M	28	969.27	960 -	979	968.92	6.11E+01	16.64	1.56E+01	2.16
m	29	973.55	960 -	979	973.20	7.44E+00	12.70	2.02E+01	2.19
	30	1002.01	998 -	1006	1001.65	1.49E+01	15.41	2.81E+01	2.81
	31	1048.77	1045 -	1052	1048.38	1.57E+01	12.33	1.25E+01	3.98
	32	1120.61	1115 -	1124	1120.20	2.33E+01	17.38	2.94E+01	1.55
	33	1186.80	1183 -	1189	1186.37	8.18E+00	8.28	5.64E+00	1.36
	34	1407.60	1401 -	1414	1407.09	1.63E+01	11.36	7.50E+00	2.74
	35	1432.81	1428 -	1436	1432.30	1.00E+01	6.32	0.00E+00	2.98
	36	1461.35	1457 -	1464	1460.83	7.30E+01	19.70	1.60E+01	1.74
	37	1501.33	1497 -	1503	1500.79	1.22E+01	8.26	3.64E+00	1.20
	38	1508.64	1505 -	1511	1508.11	6.60E+00	8.03	6.80E+00	2.92
	39	1539.48	1537 -	1541	1538.94	4.17E+00	6.04	3.67E+00	1.72
	40	1649.76	1647 -	1651	1649.18	4.50E+00	6.36	5.00E+00	2.49

00453

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1766.73	1761 -	1772	1766.13	2.55E+01	12.17	5.07E+00	8.24
42	1938.24	1934 -	1940	1937.60	1.00E+01	6.32	0.00E+00	1.96
43	2213.53	2209 -	2215	2212.83	6.00E+00	4.90	0.00E+00	2.74
44	2354.08	2349 -	2357	2353.36	1.10E+01	6.63	0.00E+00	1.33
45	2614.56	2608 -	2617	2613.82	4.50E+01	13.42	0.00E+00	2.99

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 8:16:57AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	73.24	71 -	79	4.39E+01	33.35	2.46E+02	2.58E+01
m	2	76.58	71 -	79	2.00E+02	50.75	2.21E+02	2.45E+01
	3	105.24	103 -	108	4.01E+01	40.15	2.94E+02	3.13E+01
	4	133.48	131 -	136	4.36E+01	38.96	2.67E+02	3.01E+01
	5	186.02	184 -	188	1.05E+02	33.70	1.58E+02	2.20E+01
	6	210.21	206 -	213	5.39E+01	44.86	2.90E+02	3.48E+01
M	7	238.98	236 -	246	2.67E+02	40.69	1.28E+02	1.86E+01
m	8	242.05	236 -	246	3.78E+01	27.86	1.08E+02	1.71E+01
	9	295.26	292 -	299	4.66E+01	36.28	1.89E+02	2.76E+01
	10	301.54	299 -	304	2.23E+01	24.80	1.05E+02	1.89E+01
	11	338.34	336 -	341	4.15E+01	28.09	1.27E+02	2.05E+01
	12	352.00	348 -	355	1.29E+02	36.82	1.41E+02	2.38E+01
	13	446.76	444 -	450	1.74E+01	22.41	6.92E+01	1.71E+01
	14	482.47	480 -	485	1.35E+01	17.46	4.89E+01	1.30E+01
	15	583.07	578 -	585	1.10E+02	28.28	6.05E+01	1.56E+01
	16	609.08	603 -	614	1.01E+02	36.28	1.14E+02	1.26E+01
	17	621.09	618 -	624	2.22E+01	18.85	4.76E+01	1.34E+01
	18	633.05	629 -	636	1.75E+01	20.10	5.51E+01	1.50E+01
M	19	649.21	647 -	671	1.25E+01	8.02	6.59E+00	4.22E+00
m	20	655.21	647 -	671	1.51E+01	12.01	1.65E+01	6.68E+00
	21	727.54	723 -	731	2.44E+01	23.75	7.13E+01	1.78E+01
	22	766.80	762 -	772	2.16E+01	25.00	7.28E+01	1.91E+01

00454

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	23	813.73	807 -	822	2.26E+01	23.92	4.88E+01	1.80E+01
	24	860.61	858 -	863	1.05E+01	12.29	2.29E+01	8.57E+00
	25	891.55	886 -	896	2.05E+01	17.71	2.51E+01	1.25E+01
	26	911.45	907 -	918	7.14E+01	24.17	4.11E+01	1.42E+01
	27	923.28	920 -	925	1.17E+01	11.00	1.46E+01	7.08E+00
M	28	969.27	960 -	979	6.11E+01	16.64	1.56E+01	6.49E+00
m	29	973.55	960 -	979	7.44E+00	12.70	2.02E+01	7.38E+00
	30	1002.01	998 -	1006	1.49E+01	15.41	2.81E+01	1.10E+01
	31	1048.77	1045 -	1052	1.57E+01	12.33	1.25E+01	7.76E+00
	32	1120.61	1115 -	1124	2.33E+01	17.38	2.94E+01	1.19E+01
	33	1186.80	1183 -	1189	8.18E+00	8.28	5.64E+00	4.92E+00
	34	1407.60	1401 -	1414	1.63E+01	11.36	7.50E+00	6.58E+00
	35	1432.81	1428 -	1436	1.00E+01	6.32	0.00E+00	0.00E+00
	36	1461.35	1457 -	1464	7.30E+01	19.70	1.60E+01	8.05E+00
	37	1501.33	1497 -	1503	1.22E+01	8.26	3.64E+00	3.63E+00
	38	1508.64	1505 -	1511	6.60E+00	8.03	6.80E+00	5.07E+00
	39	1539.48	1537 -	1541	4.17E+00	6.04	3.67E+00	3.66E+00
	40	1649.76	1647 -	1651	4.50E+00	6.36	5.00E+00	3.90E+00
	41	1766.73	1761 -	1772	2.55E+01	12.17	5.07E+00	5.58E+00
	42	1938.24	1934 -	1940	1.00E+01	6.32	0.00E+00	0.00E+00
	43	2213.53	2209 -	2215	6.00E+00	4.90	0.00E+00	0.00E+00
	44	2354.08	2349 -	2357	1.10E+01	6.63	0.00E+00	0.00E+00
	45	2614.56	2608 -	2617	4.50E+01	13.42	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 8:16:57AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	73.24	71 -	79	73.33	4.39E+01	33.35	2.46E+02	PM-145
m	2	76.58	71 -	79	76.67	2.00E+02	50.75	2.21E+02	.....

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	3	105.24	103 -	108	105.31	4.01E+01	40.15	2.94E+02	EU-155 NP-239
	4	133.48	131 -	136	133.54	4.36E+01	38.96	2.67E+02	CE-144
	5	186.02	184 -	188	186.05	1.05E+02	33.70	1.58E+02	RA-226
	6	210.21	206 -	213	210.23	5.39E+01	44.86	2.90E+02	CM-243
M	7	238.98	236 -	246	238.98	2.67E+02	40.69	1.28E+02	PB-212
m	8	242.05	236 -	246	242.04	3.78E+01	27.86	1.08E+02	.....
	9	295.26	292 -	299	295.23	4.66E+01	36.28	1.89E+02	PB-214
	10	301.54	299 -	304	301.50	2.23E+01	24.80	1.05E+02	.....
	11	338.34	336 -	341	338.29	4.15E+01	28.09	1.27E+02	AC-228
	12	352.00	348 -	355	351.93	1.29E+02	36.82	1.41E+02	PB-214
	13	446.76	444 -	450	446.64	1.74E+01	22.41	6.92E+01	.....
	14	482.47	480 -	485	482.34	1.35E+01	17.46	4.89E+01	.....
	15	583.07	578 -	585	582.89	1.10E+02	28.28	6.05E+01	TL-208
	16	609.08	603 -	614	608.89	1.01E+02	36.28	1.14E+02	BI-214
	17	621.09	618 -	624	620.89	2.22E+01	18.85	4.76E+01	RU-106
	18	633.05	629 -	636	632.85	1.75E+01	20.10	5.51E+01	.....
M	19	649.21	647 -	671	649.00	1.25E+01	8.02	6.59E+00	.....
m	20	655.21	647 -	671	655.00	1.51E+01	12.01	1.65E+01	.....
	21	727.54	723 -	731	727.30	2.44E+01	23.75	7.13E+01	BI-212
	22	766.80	762 -	772	766.54	2.16E+01	25.00	7.28E+01	.....
	23	813.73	807 -	822	813.44	2.26E+01	23.92	4.88E+01	.....
	24	860.61	858 -	863	860.31	1.05E+01	12.29	2.29E+01	TL-208
	25	891.55	886 -	896	891.24	2.05E+01	17.71	2.51E+01	.....
	26	911.45	907 -	918	911.12	7.14E+01	24.17	4.11E+01	AC-228 LU-172
	27	923.28	920 -	925	922.95	1.17E+01	11.00	1.46E+01	.....
M	28	969.27	960 -	979	968.92	6.11E+01	16.64	1.56E+01	AC-228
m	29	973.55	960 -	979	973.20	7.44E+00	12.70	2.02E+01	.....
	30	1002.01	998 -	1006	1001.65	1.49E+01	15.41	2.81E+01	PA-234M
	31	1048.77	1045 -	1052	1048.38	1.57E+01	12.33	1.25E+01	CS-136
	32	1120.61	1115 -	1124	1120.20	2.33E+01	17.38	2.94E+01	SC-46 BI-214 TA-182
	33	1186.80	1183 -	1189	1186.37	8.18E+00	8.28	5.64E+00	.....
	34	1407.60	1401 -	1414	1407.09	1.63E+01	11.36	7.50E+00	EU-152
	35	1432.81	1428 -	1436	1432.30	1.00E+01	6.32	0.00E+00	.....
	36	1461.35	1457 -	1464	1460.83	7.30E+01	19.70	1.60E+01	K-40
	37	1501.33	1497 -	1503	1500.79	1.22E+01	8.26	3.64E+00	.....
	38	1508.64	1505 -	1511	1508.11	6.60E+00	8.03	6.80E+00	.....
	39	1539.48	1537 -	1541	1538.94	4.17E+00	6.04	3.67E+00	.....
	40	1649.76	1647 -	1651	1649.18	4.50E+00	6.36	5.00E+00	.....
	41	1766.73	1761 -	1772	1766.13	2.55E+01	12.17	5.07E+00	.....
	42	1938.24	1934 -	1940	1937.60	1.00E+01	6.32	0.00E+00	.....
	43	2213.53	2209 -	2215	2212.83	6.00E+00	4.90	0.00E+00	.....
	44	2354.08	2349 -	2357	2353.36	1.10E+01	6.63	0.00E+00	.....
	45	2614.56	2608 -	2617	2613.82	4.50E+01	13.42	0.00E+00	TL-208

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 8:16:57AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	73.24	4.39E+01	33.35	2.68E-02	3.04E-03
m	2	76.58	2.00E+02	50.75	2.74E-02	3.37E-03
	3	105.24	4.01E+01	40.15	2.80E-02	3.74E-03
	4	133.48	4.36E+01	38.96	2.56E-02	2.65E-03
	5	186.02	1.05E+02	33.70	2.11E-02	1.65E-03
	6	210.21	5.39E+01	44.86	1.95E-02	1.63E-03
M	7	238.98	2.67E+02	40.69	1.79E-02	1.60E-03
m	8	242.05	3.78E+01	27.86	1.77E-02	1.60E-03
	9	295.26	4.66E+01	36.28	1.55E-02	1.48E-03
	10	301.54	2.23E+01	24.80	1.52E-02	1.45E-03
	11	338.34	4.15E+01	28.09	1.41E-02	1.27E-03
	12	352.00	1.29E+02	36.82	1.37E-02	1.21E-03
	13	446.76	1.74E+01	22.41	1.16E-02	9.64E-04
	14	482.47	1.35E+01	17.46	1.10E-02	9.27E-04
	15	583.07	1.10E+02	28.28	9.58E-03	8.25E-04
	16	609.08	1.01E+02	36.28	9.27E-03	7.99E-04
	17	621.09	2.22E+01	18.85	9.14E-03	7.86E-04
	18	633.05	1.75E+01	20.10	9.01E-03	7.74E-04
M	19	649.21	1.25E+01	8.02	8.83E-03	7.58E-04
m	20	655.21	1.51E+01	12.01	8.77E-03	7.52E-04
	21	727.54	2.44E+01	23.75	8.08E-03	7.03E-04
	22	766.80	2.16E+01	25.00	7.75E-03	6.78E-04
	23	813.73	2.26E+01	23.92	7.39E-03	6.47E-04
	24	860.61	1.05E+01	12.29	7.07E-03	6.17E-04
	25	891.55	2.05E+01	17.71	6.87E-03	5.98E-04
	26	911.45	7.14E+01	24.17	6.74E-03	5.86E-04
	27	923.28	1.17E+01	11.00	6.67E-03	5.80E-04
M	28	969.27	6.11E+01	16.64	6.41E-03	5.57E-04
m	29	973.55	7.44E+00	12.70	6.39E-03	5.55E-04
	30	1002.01	1.49E+01	15.41	6.24E-03	5.40E-04
	31	1048.77	1.57E+01	12.33	6.01E-03	5.16E-04
	32	1120.61	2.33E+01	17.38	5.70E-03	4.80E-04
	33	1186.80	8.18E+00	8.28	5.45E-03	4.59E-04
	34	1407.60	1.63E+01	11.36	4.79E-03	4.95E-04

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
35	1432.81	1.00E+01	6.32	4.74E-03	4.85E-04
36	1461.35	7.30E+01	19.70	4.67E-03	4.73E-04
37	1501.33	1.22E+01	8.26	4.59E-03	4.56E-04
38	1508.64	6.60E+00	8.03	4.57E-03	4.53E-04
39	1539.48	4.17E+00	6.04	4.52E-03	4.41E-04
40	1649.76	4.50E+00	6.36	4.33E-03	3.95E-04
41	1766.73	2.55E+01	12.17	4.18E-03	3.47E-04
42	1938.24	1.00E+01	6.32	4.03E-03	3.18E-04
43	2213.53	6.00E+00	4.90	3.93E-03	3.18E-04
44	2354.08	1.10E+01	6.63	3.94E-03	3.18E-04
45	2614.56	4.50E+01	13.42	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 8:16:57AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	73.24	4.39E+01	33.35			4.39E+01	3.33E+01
m	2	76.58	2.00E+02	50.75	2.65E+01	9.95E+00	1.74E+02	5.17E+01
	3	105.24	4.01E+01	40.15			4.01E+01	4.01E+01
	4	133.48	4.36E+01	38.96			4.36E+01	3.90E+01
	5	186.02	1.05E+02	33.70	4.78E+01	7.95E+00	5.72E+01	3.46E+01
	6	210.21	5.39E+01	44.86			5.39E+01	4.49E+01
M	7	238.98	2.67E+02	40.69	1.43E+01	7.07E+00	2.53E+02	4.13E+01
m	8	242.05	3.78E+01	27.86			3.78E+01	2.79E+01
	9	295.26	4.66E+01	36.28	9.61E+00	5.92E+00	3.70E+01	3.68E+01
	10	301.54	2.23E+01	24.80			2.23E+01	2.48E+01
	11	338.34	4.15E+01	28.09			4.15E+01	2.81E+01
	12	352.00	1.29E+02	36.82	1.56E+01	5.52E+00	1.13E+02	3.72E+01
	13	446.76	1.74E+01	22.41			1.74E+01	2.24E+01
	14	482.47	1.35E+01	17.46			1.35E+01	1.75E+01
	15	583.07	1.10E+02	28.28	6.24E+00	3.96E+00	1.03E+02	2.86E+01
	16	609.08	1.01E+02	36.28	1.38E+01	3.84E+00	8.74E+01	3.65E+01
	17	621.09	2.22E+01	18.85			2.22E+01	1.89E+01
	18	633.05	1.75E+01	20.10			1.75E+01	2.01E+01
M	19	649.21	1.25E+01	8.02			1.25E+01	8.02E+00

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	20	655.21	1.51E+01	12.01			1.51E+01	1.20E+01
	21	727.54	2.44E+01	23.75			2.44E+01	2.37E+01
	22	766.80	2.16E+01	25.00			2.16E+01	2.50E+01
	23	813.73	2.26E+01	23.92			2.26E+01	2.39E+01
	24	860.61	1.05E+01	12.29			1.05E+01	1.23E+01
	25	891.55	2.05E+01	17.71			2.05E+01	1.77E+01
	26	911.45	7.14E+01	24.17	7.18E+00	2.77E+00	6.43E+01	2.43E+01
	27	923.28	1.17E+01	11.00			1.17E+01	1.10E+01
M	28	969.27	6.11E+01	16.64			6.11E+01	1.66E+01
m	29	973.55	7.44E+00	12.70			7.44E+00	1.27E+01
	30	1002.01	1.49E+01	15.41	1.62E-01	2.94E+00	1.48E+01	1.57E+01
	31	1048.77	1.57E+01	12.33			1.57E+01	1.23E+01
	32	1120.61	2.33E+01	17.38	3.25E+00	2.68E+00	2.01E+01	1.76E+01
	33	1186.80	8.18E+00	8.28			8.18E+00	8.28E+00
	34	1407.60	1.63E+01	11.36			1.63E+01	1.14E+01
	35	1432.81	1.00E+01	6.32			1.00E+01	6.32E+00
	36	1461.35	7.30E+01	19.70	1.14E+01	2.53E+00	6.16E+01	1.99E+01
	37	1501.33	1.22E+01	8.26			1.22E+01	8.26E+00
	38	1508.64	6.60E+00	8.03			6.60E+00	8.03E+00
	39	1539.48	4.17E+00	6.04			4.17E+00	6.04E+00
	40	1649.76	4.50E+00	6.36			4.50E+00	6.36E+00
	41	1766.73	2.55E+01	12.17			2.55E+01	1.22E+01
	42	1938.24	1.00E+01	6.32			1.00E+01	6.32E+00
	43	2213.53	6.00E+00	4.90			6.00E+00	4.90E+00
	44	2354.08	1.10E+01	6.63			1.10E+01	6.63E+00
	45	2614.56	4.50E+01	13.42	8.08E+00	1.71E+00	3.69E+01	1.35E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 8:16:57AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	73.24	4.39E+01	33.35			4.39E+01	3.33E+01
m	2	76.58	2.00E+02	50.75	2.65E+01	9.95E+00	1.74E+02	5.17E+01

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	3	105.24	4.01E+01	40.15			4.01E+01	4.01E+01
	4	133.48	4.36E+01	38.96			4.36E+01	3.90E+01
	5	186.02	1.05E+02	33.70	4.78E+01	7.95E+00	5.72E+01	3.46E+01
	6	210.21	5.39E+01	44.86			5.39E+01	4.49E+01
M	7	238.98	2.67E+02	40.69	1.43E+01	7.07E+00	2.53E+02	4.13E+01
m	8	242.05	3.78E+01	27.86			3.78E+01	2.79E+01
	9	295.26	4.66E+01	36.28	9.61E+00	5.92E+00	3.70E+01	3.68E+01
	10	301.54	2.23E+01	24.80			2.23E+01	2.48E+01
	11	338.34	4.15E+01	28.09			4.15E+01	2.81E+01
	12	352.00	1.29E+02	36.82	1.56E+01	5.52E+00	1.13E+02	3.72E+01
	13	446.76	1.74E+01	22.41			1.74E+01	2.24E+01
	14	482.47	1.35E+01	17.46			1.35E+01	1.75E+01
	15	583.07	1.10E+02	28.28	6.24E+00	3.96E+00	1.03E+02	2.86E+01
	16	609.08	1.01E+02	36.28	1.38E+01	3.84E+00	8.74E+01	3.65E+01
	17	621.09	2.22E+01	18.85			2.22E+01	1.89E+01
	18	633.05	1.75E+01	20.10			1.75E+01	2.01E+01
M	19	649.21	1.25E+01	8.02			1.25E+01	8.02E+00
m	20	655.21	1.51E+01	12.01			1.51E+01	1.20E+01
	21	727.54	2.44E+01	23.75			2.44E+01	2.37E+01
	22	766.80	2.16E+01	25.00			2.16E+01	2.50E+01
	23	813.73	2.26E+01	23.92			2.26E+01	2.39E+01
	24	860.61	1.05E+01	12.29			1.05E+01	1.23E+01
	25	891.55	2.05E+01	17.71			2.05E+01	1.77E+01
	26	911.45	7.14E+01	24.17	7.18E+00	2.77E+00	6.43E+01	2.43E+01
	27	923.28	1.17E+01	11.00			1.17E+01	1.10E+01
M	28	969.27	6.11E+01	16.64			6.11E+01	1.66E+01
m	29	973.55	7.44E+00	12.70			7.44E+00	1.27E+01
	30	1002.01	1.49E+01	15.41	1.62E-01	2.94E+00	1.48E+01	1.57E+01
	31	1048.77	1.57E+01	12.33			1.57E+01	1.23E+01
	32	1120.61	2.33E+01	17.38	3.25E+00	2.68E+00	2.01E+01	1.76E+01
	33	1186.80	8.18E+00	8.28			8.18E+00	8.28E+00
	34	1407.60	1.63E+01	11.36			1.63E+01	1.14E+01
	35	1432.81	1.00E+01	6.32			1.00E+01	6.32E+00
	36	1461.35	7.30E+01	19.70	1.14E+01	2.53E+00	6.16E+01	1.99E+01
	37	1501.33	1.22E+01	8.26			1.22E+01	8.26E+00
	38	1508.64	6.60E+00	8.03			6.60E+00	8.03E+00
	39	1539.48	4.17E+00	6.04			4.17E+00	6.04E+00
	40	1649.76	4.50E+00	6.36			4.50E+00	6.36E+00
	41	1766.73	2.55E+01	12.17			2.55E+01	1.22E+01
	42	1938.24	1.00E+01	6.32			1.00E+01	6.32E+00
	43	2213.53	6.00E+00	4.90			6.00E+00	4.90E+00
	44	2354.08	1.10E+01	6.63			1.10E+01	6.63E+00
	45	2614.56	4.50E+01	13.42	8.08E+00	1.71E+00	3.69E+01	1.35E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.955	1460.81	*	10.67	3.51E+00	1.19E+00
RU-106	0.913	621.84	*	9.80	7.46E-01	6.41E-01
CE-144	0.999	133.54	*	10.80	4.83E-01	4.34E-01
TL-208	0.998	583.14	*	30.22	1.01E+00	2.93E-01
		860.37	*	4.48	9.45E-01	1.10E+00
		2614.66	*	35.85	7.21E-01	2.70E-01
BI-212	0.748	727.17	*	11.80	7.25E-01	7.09E-01
		1620.62		2.75		
PB-212	0.876	238.63	*	44.60	9.00E-01	1.68E-01
		300.09		3.41		
BI-214	0.684	609.31	*	46.30	5.78E-01	2.46E-01
		1120.29	*	15.10	6.62E-01	5.82E-01
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.999	295.21	*	19.19	3.54E-01	3.53E-01
		351.92	*	37.19	6.29E-01	2.14E-01
RA-226	0.994	186.21	*	3.28	2.35E+00	4.52E+00
AC-228	0.988	338.32	*	11.40	7.33E-01	5.00E-01
		911.07	*	27.70	9.76E-01	3.79E-01
		969.11	*	16.60	1.63E+00	4.66E-01
PA-234M	0.857	1001.03	*	0.92	7.30E+00	7.78E+00

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 8:16:57AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	73.24	1.21972E-02	37.97	Tol.	PM-145
m	2	76.58	4.82098E-02	14.90		
	3	105.24	1.11423E-02	50.05	Tol.	EU-155 NP-239
	6	210.21	1.49609E-02	41.64	Tol.	CM-243
m	8	242.05	1.04911E-02	36.88		
	10	301.54	6.18148E-03	55.72		
	13	446.76	4.82906E-03	64.44		
	14	482.47	3.75731E-03	64.56		
	18	633.05	4.85185E-03	57.54	Sum	
M	19	649.21	3.46783E-03	32.10		
m	20	655.21	4.20336E-03	39.69		
	22	766.80	6.00096E-03	57.87		
	23	813.73	6.27660E-03	52.92		
	25	891.55	5.68182E-03	43.28		
	27	923.28	3.25292E-03	46.97		
m	29	973.55	2.06583E-03	85.37	Sum	
	31	1048.77	4.36869E-03	39.20	Tol.	CS-136
	33	1186.80	2.27273E-03	50.58		
	34	1407.60	4.51389E-03	34.95	Tol.	EU-152
	35	1432.81	2.77778E-03	31.62		
	37	1501.33	3.38294E-03	33.92		
	38	1508.64	1.83333E-03	60.84		
	39	1539.48	1.15741E-03	72.50		
	40	1649.76	1.25000E-03	70.71		
	41	1766.73	7.07341E-03	23.89		
	42	1938.24	2.77778E-03	31.62	Sum	
	43	2213.53	1.66667E-03	40.82		
	44	2354.08	3.05556E-03	30.15		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

00462

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.95	1460.81	*	10.67	3.51E+00	1.19E+00
RU-106	0.91	621.84	*	9.80	7.46E-01	6.41E-01
CE-144	0.99	133.54	*	10.80	4.83E-01	4.34E-01
TL-208	0.99	583.14	*	30.22	1.01E+00	2.93E-01
		860.37	*	4.48	9.45E-01	1.10E+00
		2614.66	*	35.85	7.21E-01	2.70E-01
BI-212	0.74	727.17	*	11.80	7.25E-01	7.09E-01
		1620.62		2.75		
PB-212	0.87	238.63	*	44.60	9.00E-01	1.68E-01
		300.09		3.41		
BI-214	0.68	609.31	*	46.30	5.78E-01	2.46E-01
		1120.29	*	15.10	6.62E-01	5.82E-01
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	3.54E-01	3.53E-01
		351.92	*	37.19	6.29E-01	2.14E-01
RA-226	0.99	186.21	*	3.28	2.35E+00	4.52E+00
AC-228	0.98	338.32	*	11.40	7.33E-01	5.00E-01
		911.07	*	27.70	9.76E-01	3.79E-01
		969.11	*	16.60	1.63E+00	4.66E-01
PA-234M	0.85	1001.03	*	0.92	7.30E+00	7.78E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.955	3.51E+00	1.19E+00	
RU-106	0.913	7.46E-01	6.41E-01	
CE-144	0.999	4.83E-01	4.34E-01	
TL-208	0.998	8.59E-01	1.96E-01	
BI-212	0.748	7.25E-01	7.09E-01	
PB-212	0.876	9.00E-01	1.68E-01	

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
BI-214	0.684	5.90E-01	2.27E-01	
PB-214	0.999	5.55E-01	1.83E-01	
RA-226	0.994	2.35E+00	4.52E+00	
AC-228	0.988	1.11E+00	2.53E-01	
PA-234M	0.857	7.30E+00	7.78E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 8:16:57AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	73.24	1.21972E-02	37.97	Tol.	PM-145
m	2	76.58	4.82098E-02	14.90		
	3	105.24	1.11423E-02	50.05	Tol.	EU-155
						NP-239
	6	210.21	1.49609E-02	41.64	Tol.	CM-243
m	8	242.05	1.04911E-02	36.88		
	10	301.54	6.18148E-03	55.72		
	13	446.76	4.82906E-03	64.44		
	14	482.47	3.75731E-03	64.56		
	18	633.05	4.85185E-03	57.54	Sum	
M	19	649.21	3.46783E-03	32.10		
m	20	655.21	4.20336E-03	39.69		
	22	766.80	6.00096E-03	57.87		
	23	813.73	6.27660E-03	52.92		
	25	891.55	5.68182E-03	43.28		
	27	923.28	3.25292E-03	46.97		
m	29	973.55	2.06583E-03	85.37	Sum	
	31	1048.77	4.36869E-03	39.20	Tol.	CS-136
	33	1186.80	2.27273E-03	50.58		
	34	1407.60	4.51389E-03	34.95	Tol.	EU-152
	35	1432.81	2.77778E-03	31.62		
	37	1501.33	3.38294E-03	33.92		
	38	1508.64	1.83333E-03	60.84		
	39	1539.48	1.15741E-03	72.50		
	40	1649.76	1.25000E-03	70.71		
	41	1766.73	7.07341E-03	23.89		
	42	1938.24	2.77778E-03	31.62	Sum	
	43	2213.53	1.66667E-03	40.82		
	44	2354.08	3.05556E-03	30.15		

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.04E-01	1.07E+00	1.07E+00
+	NA-22	1274.54		99.94	6.07E-02	1.26E-01	1.26E-01
+	NA-24	1368.53		99.99	2.59E+13	1.65E+13	8.23E+13
		2754.09		99.86	0.00E+00		1.65E+13
+	AL-26	1808.65		99.76	-6.87E-03	1.09E-01	1.09E-01
+	K-40	1460.81	*	10.67	3.51E+00	1.29E+00	1.29E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.00E-03	5.77E-02	5.77E-02
		78.34		96.00	1.96E-01		9.03E-02
+	SC-46	889.25		99.98	1.66E-02	1.38E-01	1.38E-01
		1120.51		99.99	1.53E-01		1.92E-01
+	V-48	983.52		99.98	1.13E-01	3.87E-01	4.14E-01
		1312.10		97.50	-1.40E-01		3.87E-01
+	CR-51	320.08		9.83	-3.91E-01	1.58E+00	1.58E+00
+	MN-54	834.83		99.97	-3.32E-03	1.20E-01	1.20E-01
+	CO-56	846.75		99.96	-4.12E-02	1.08E-01	1.08E-01
		1037.75		14.03	2.45E-01		9.59E-01
		1238.25		67.00	8.45E-02		2.19E-01
		1771.40		15.51	-1.15E-01		1.00E+00
		2598.48		16.90	-7.89E-02		5.88E-01
+	CO-57	122.06		85.51	-2.76E-02	7.86E-02	7.86E-02
		136.48		10.60	-1.84E-01		6.07E-01
+	CO-58	810.76		99.40	2.66E-02	1.25E-01	1.25E-01
+	FE-59	1099.22		56.50	-1.24E-01	2.83E-01	2.83E-01
		1291.56		43.20	1.31E-01		4.06E-01
+	CO-60	1173.22		100.00	2.05E-02	1.05E-01	1.05E-01
		1332.49		100.00	-2.66E-03		1.12E-01
+	ZN-65	1115.52		50.75	7.11E-03	2.21E-01	2.21E-01
+	GA-67	93.31		35.70	1.30E+02	1.55E+02	1.55E+02
		208.95		2.24	5.23E+02		2.72E+03
		300.22		16.00	-1.66E+02		3.32E+02
+	SE-75	121.11		16.70	-7.60E-03	1.22E-01	4.37E-01

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	-4.58E-02	1.22E-01	1.22E-01
		264.65		59.80	-3.39E-02		1.46E-01
		279.53		25.20	1.60E-01		3.59E-01
		400.65		11.40	6.78E-02		7.80E-01
+	RB-82	776.52		13.00	6.98E-01	1.71E+00	1.71E+00
+	RB-83	520.41		46.00	1.81E-02	2.17E-01	2.17E-01
		529.64		30.30	-5.80E-02		3.19E-01
		552.65		16.40	2.57E-03		5.89E-01
+	KR-85	513.99		0.43	-7.99E+00	2.40E+01	2.40E+01
+	SR-85	513.99		99.27	-4.84E-02	1.46E-01	1.46E-01
+	Y-88	898.02		93.40	-1.09E-02	9.88E-02	9.88E-02
		1836.01		99.38	-4.96E-02		1.02E-01
+	NB-93M	16.57		9.43	-2.41E+04	1.01E+04	1.01E+04
+	NB-94	702.63		100.00	-1.84E-02	1.03E-01	1.06E-01
		871.10		100.00	2.10E-02		1.03E-01
+	NB-95	765.79		99.81	1.55E-01	2.27E-01	2.27E-01
+	NB-95M	235.69		25.00	3.04E+01	1.52E+02	1.52E+02
+	ZR-95	724.18		43.70	5.27E-02	2.46E-01	3.91E-01
		756.72		55.30	1.05E-01		2.46E-01
+	MO-99	181.06		6.20	9.17E+01	1.70E+03	2.55E+03
		739.58		12.80	-8.08E+02		1.70E+03
		778.00		4.50	-3.98E+03		4.72E+03
+	RU-103	497.08		89.00	-9.77E-02	1.44E-01	1.44E-01
+	RU-106	621.84	*	9.80	7.46E-01	9.93E-01	9.93E-01
+	AG-108M	433.93		89.90	-2.41E-03	7.72E-02	7.72E-02
		614.37		90.40	1.16E-02		1.06E-01
		722.95		90.50	3.48E-02		1.25E-01
+	CD-109	88.03		3.72	1.89E+00	2.22E+00	2.22E+00
+	AG-110M	657.75		93.14	5.68E-02	1.34E-01	1.34E-01
		677.61		10.53	5.16E-01		1.05E+00
		706.67		16.46	7.88E-02		6.69E-01
		763.93		21.98	-1.72E-01		5.25E-01
		884.67		71.63	-1.58E-02		1.50E-01
		1384.27		23.94	1.82E-01		4.44E-01
+	CD-113M	263.70		0.02	4.51E+01	3.25E+02	3.25E+02
+	SN-113	255.12		1.93	1.73E+00	1.36E-01	4.41E+00
		391.69		64.90	-2.66E-02		1.36E-01
+	TE123M	159.00		84.10	-1.60E-03	8.75E-02	8.75E-02
+	SB-124	602.71		97.87	-2.22E-03	1.52E-01	1.52E-01
		645.85		7.26	1.68E-01		1.58E+00
		722.78		11.10	4.05E-01		1.46E+00
		1691.02		49.00	0.00E+00		3.23E-01
+	I-125	35.49		6.49	6.64E+00	9.28E+00	9.28E+00
+	SB-125	176.33		6.89	3.19E-01	2.18E-01	1.04E+00
		427.89		29.33	-1.08E-01		2.18E-01
		463.38		10.35	1.73E-01		8.55E-01
		600.56		17.80	1.87E-01		5.58E-01
		635.90		11.32	2.50E-02		8.85E-01

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70	83.30	-1.04E-01	4.70E-01	4.70E-01
		666.33	99.60	-4.35E-01		4.93E-01
		695.00	99.60	-3.86E-03		6.20E-01
		720.50	53.80	2.80E-01		1.07E+00
+	SN-126	87.57	37.00	1.81E-01	2.13E-01	2.13E-01
+	SB-127	473.00	25.00	2.03E+01	7.38E+01	8.00E+01
		685.20	35.70	8.97E+00		7.38E+01
		783.80	14.70	2.06E+01		1.88E+02
+	I-129	29.78	57.00	1.89E+00	2.06E+00	2.06E+00
		33.60	13.20	-2.30E+00		3.82E+00
		39.58	7.52	1.44E-01		3.34E+00
+	I-131	284.30	6.05	3.75E-01	1.22E+00	1.70E+01
		364.48	81.20	-8.15E-01		1.22E+00
		636.97	7.26	-1.79E+00		1.73E+01
		722.89	1.80	2.54E+01		9.16E+01
+	TE-132	49.72	13.10	3.43E+01	5.62E+01	4.55E+02
		228.16	88.00	2.77E+01		5.62E+01
+	BA-133	81.00	33.00	9.24E-02	1.23E-01	1.55E-01
		302.84	17.80	1.26E-01		4.15E-01
		356.01	60.00	-8.91E-03		1.23E-01
+	I-133	529.87	86.30	-1.53E+09	5.21E+09	5.21E+09
+	XE-133	81.00	38.00	4.83E+00	8.10E+00	8.10E+00
+	CS-134	563.23	8.38	9.08E-02	1.16E-01	1.03E+00
		569.32	15.43	-3.29E-01		4.76E-01
		604.70	97.60	-3.46E-01		1.21E-01
		795.84	85.40	-1.23E-02		1.16E-01
		801.93	8.73	5.51E-01		1.14E+00
+	CS-135	268.24	16.00	5.74E-02	5.01E-01	5.01E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	7.39E-01	4.87E-01	4.56E+00
		163.89	4.61	-6.92E-01		6.65E+00
		176.55	13.56	2.33E+00		2.63E+00
		273.65	12.66	1.53E-01		2.98E+00
		340.57	48.50	-9.93E-03		9.08E-01
		818.50	99.70	1.59E-01		4.87E-01
		1048.07	79.60	3.35E-01		7.45E-01
		1235.34	19.70	2.55E-01		2.81E+00
+	CS-137	661.65	85.12	7.13E-02	1.34E-01	1.34E-01
+	LA-138	788.74	34.00	-2.94E-02	1.44E-01	2.91E-01
		1435.80	66.00	-4.55E-03		1.44E-01
+	CE-139	165.85	80.35	-2.19E-02	8.84E-02	8.84E-02
+	BA-140	162.64	6.70	6.24E-01	1.72E+00	4.89E+00
		304.84	4.50	8.88E-01		8.05E+00
		423.70	3.20	5.65E+00		1.30E+01
		437.55	2.00	2.02E-02		1.88E+01
		537.32	25.00	2.90E-03		1.72E+00
+	LA-140	328.77	20.50	1.05E+00	6.30E-01	2.16E+00

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03		45.50	1.36E-01	6.30E-01	8.11E-01
		815.85		23.50	-4.84E-01		2.02E+00
		1596.49		95.49	-1.27E-01		6.30E-01
+	CE-141	145.44		48.40	-4.09E-02	2.47E-01	2.47E-01
+	CE-143	57.36		11.80	-3.57E+05	1.27E+06	3.31E+06
		293.26		42.00	-1.97E+05		1.27E+06
		664.55		5.20	1.83E+06		1.23E+07
+	CE-144	133.54	*	10.80	4.83E-01	6.97E-01	6.97E-01
+	PM-144	476.78		42.00	1.84E-02	1.14E-01	1.87E-01
		618.01		98.60	1.14E-02		1.14E-01
		696.49		99.49	-3.98E-02		1.14E-01
+	PM-145	36.85		21.70	3.35E-02	8.17E-01	1.59E+00
		37.36		39.70	1.72E-02		8.17E-01
		42.30		15.10	-2.73E-02		1.26E+00
		72.40		2.31	-6.81E-01		2.43E+00
+	PM-146	453.90		39.94	1.76E-02	1.94E-01	1.94E-01
		735.90		14.01	3.48E-02		6.27E-01
		747.13		13.10	4.79E-02		7.31E-01
+	ND-147	91.11		28.90	-1.46E+00	1.91E+00	1.91E+00
		531.02		13.10	1.09E-01		4.28E+00
+	PM-149	285.90		3.10	6.56E+03	3.88E+04	3.88E+04
+	EU-152	121.78		20.50	-1.07E-01	3.04E-01	3.04E-01
		244.69		5.40	-1.65E+00		1.30E+00
		344.27		19.13	2.85E-01		4.39E-01
		778.89		9.20	-6.19E-01		9.51E-01
		964.01		10.40	-1.57E+00		1.40E+00
		1085.78		7.22	-2.66E-01		1.07E+00
		1112.02		9.60	0.00E+00		1.01E+00
		1407.95		14.94	2.79E-01		8.01E-01
+	GD-153	97.43		31.30	3.26E-02	2.04E-01	2.04E-01
		103.18		22.20	-1.76E-02		2.89E-01
+	EU-154	123.07		40.50	6.87E-02	1.60E-01	1.60E-01
		723.30		19.70	1.61E-01		5.80E-01
		873.19		11.50	3.56E-02		8.73E-01
		996.32		10.30	8.29E-02		9.68E-01
		1004.76		17.90	2.22E-01		6.65E-01
		1274.45		35.50	1.68E-01		3.50E-01
+	EU-155	86.50		30.90	5.14E-03	2.52E-01	2.52E-01
		105.30		20.70	2.66E-01		3.08E-01
+	EU-156	811.77		10.40	1.07E+00	3.80E+00	3.80E+00
		1153.47		7.20	2.61E+00		7.01E+00
		1230.71		8.90	1.47E+00		5.14E+00
+	HO-166M	184.41		72.60	1.83E-02	1.17E-01	1.17E-01
		280.45		29.60	1.14E-01		2.56E-01
		410.94		11.10	-2.55E-02		6.59E-01
		711.69		54.10	4.64E-03		1.88E-01
+	TM-171	66.72		0.14	1.98E+01	4.11E+01	4.11E+01
+	HF-172	81.75		4.52	-3.34E-01	5.71E-01	1.13E+00
		125.81		11.30	-9.27E-01		5.71E-01

Analysis Report for 1507182-06

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	1.75E+00	4.02E+00	7.52E+00
		810.06		16.63	2.91E+00		1.37E+01
		912.12		15.25	4.29E+01		3.02E+01
		1093.66		62.50	5.04E-01		4.02E+00
+	LU-173	100.72		5.24	3.70E-01	3.85E-01	1.16E+00
		272.11		21.20	-6.19E-02		3.85E-01
+	HF-175	343.40		84.00	8.55E-02	1.33E-01	1.33E-01
+	LU-176	88.34		13.30	5.04E-01	6.93E-02	5.92E-01
		201.83		86.00	-3.01E-02		7.93E-02
		306.78		94.00	1.24E-02		6.93E-02
+	TA-182	67.75		41.20	8.29E-03	1.60E-01	1.60E-01
		1121.30		34.90	2.90E-01		5.00E-01
		1189.05		16.23	-5.82E-02		6.76E-01
		1221.41		26.98	6.55E-02		4.49E-01
		1231.02		11.44	1.41E-01		1.10E+00
+	IR-192	308.46		29.68	-8.52E-02	2.09E-01	2.89E-01
		468.07		48.10	1.55E-02		2.09E-01
+	HG-203	279.19		77.30	-3.44E-02	1.48E-01	1.48E-01
+	BI-207	569.67		97.72	-5.07E-02	7.32E-02	7.32E-02
		1063.62		74.90	-1.28E-02		1.20E-01
+	TL-208	583.14	*	30.22	1.01E+00	2.44E-01	3.50E-01
		860.37	*	4.48	9.45E-01		1.78E+00
		2614.66	*	35.85	7.21E-01		2.44E-01
+	BI-210M	262.00		45.00	7.89E-02	1.63E-01	1.63E-01
		300.00		23.00	-1.58E-01		3.15E-01
+	PB-210	46.50		4.25	3.64E+00	3.26E+00	3.26E+00
+	PB-211	404.84		2.90	1.58E+00	2.64E+00	2.64E+00
		831.96		2.90	-1.29E+00		3.44E+00
+	BI-212	727.17	*	11.80	7.25E-01	1.14E+00	1.14E+00
		1620.62		2.75	1.30E+00		4.11E+00
+	PB-212	238.63	*	44.60	9.00E-01	2.87E-01	2.87E-01
		300.09		3.41	-1.06E+00		2.12E+00
+	BI-214	609.31	*	46.30	5.78E-01	3.58E-01	3.58E-01
		1120.29	*	15.10	6.62E-01		9.09E-01
		1764.49		15.80	6.11E-01		1.07E+00
		2204.22		4.98	7.41E-01		2.04E+00
+	PB-214	295.21	*	19.19	3.54E-01	2.95E-01	5.71E-01
		351.92	*	37.19	6.29E-01		2.95E-01
+	RN-219	401.80		6.50	-2.54E-01	1.11E+00	1.11E+00
+	RA-223	323.87		3.88	-7.09E-01	1.76E+00	1.76E+00
+	RA-224	240.98		3.95	8.26E+00	3.59E+00	3.59E+00
+	RA-225	40.00		31.00	1.44E-01	3.33E+00	3.33E+00
+	RA-226	186.21	*	3.28	2.35E+00	2.21E+00	2.21E+00
+	TH-227	50.10		8.40	7.12E-02	8.51E-01	9.45E-01
		236.00		11.50	1.70E-01		8.51E-01
		256.20		6.30	4.70E-02		1.08E+00
+	AC-228	338.32	*	11.40	7.33E-01	4.98E-01	7.73E-01
		911.07	*	27.70	9.76E-01		4.98E-01

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Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	1.63E+00	4.98E-01	1.08E+00
+	TH-230	48.44		16.90	-3.81E-01	5.37E-01	5.37E-01
		62.85		4.60	1.72E+00		1.61E+00
		67.67		0.37	7.66E-01		1.48E+01
+	PA-231	283.67		1.60	9.74E-02	3.19E+00	4.42E+00
		302.67		2.30	9.69E-01		3.19E+00
+	TH-231	25.64		14.70	1.79E+01	8.19E-01	2.47E+01
		84.21		6.40	1.33E-01		8.19E-01
+	PA-233	311.98		38.60	1.43E-01	4.00E-01	4.00E-01
+	PA-234	131.20		20.40	1.74E-01	3.41E-01	3.41E-01
		733.99		8.80	-1.25E-01		1.01E+00
		946.00		12.00	-5.47E-01		7.71E-01
+	PA-234M	1001.03	*	0.92	7.30E+00	1.25E+01	1.25E+01
+	TH-234	63.29		3.80	2.06E+00	1.93E+00	1.93E+00
+	U-235	143.76		10.50	-4.58E-01	5.48E-01	5.48E-01
		163.35		4.70	1.66E-01		1.30E+00
		205.31		4.70	3.40E-01		1.60E+00
+	NP-237	86.50		12.60	1.24E-02	6.11E-01	6.11E-01
+	NP-239	106.10		22.70	1.13E+03	2.59E+03	2.59E+03
		228.18		10.70	2.87E+03		5.82E+03
		277.60		14.10	8.91E+02		4.86E+03
+	AM-241	59.54		35.90	-2.85E-02	1.79E-01	1.79E-01
+	AM-243	74.67		66.00	-1.61E-01	1.29E-01	1.29E-01
+	CM-243	209.75		3.29	2.41E+00	5.28E-01	2.58E+00
		228.14		10.60	3.12E-01		6.34E-01
		277.60		14.00	9.68E-02		5.28E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

00471

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.07E+00	1.07E+00	1.04E-01	4.83E-01
	NA-22	1274.54		99.94	1.26E-01	1.26E-01	6.07E-02	5.56E-02
	NA-24	1368.53		99.99	8.23E+13	1.65E+13	2.59E+13	3.41E+13
		2754.09		99.86	1.65E+13		0.00E+00	0.00E+00
	AL-26	1808.65		99.76	1.09E-01	1.09E-01	-6.87E-03	4.52E-02
+	K-40	1460.81	*	10.67	1.29E+00	1.29E+00	3.51E+00	5.69E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.77E-02	5.77E-02	3.00E-03	2.73E-02
		78.34		96.00	9.03E-02		1.96E-01	4.37E-02
	SC-46	889.25		99.98	1.38E-01	1.38E-01	1.66E-02	6.20E-02
		1120.51		99.99	1.92E-01		1.53E-01	8.73E-02
	V-48	983.52		99.98	4.14E-01	3.87E-01	1.13E-01	1.84E-01
		1312.10		97.50	3.87E-01		-1.40E-01	1.63E-01
	CR-51	320.08		9.83	1.58E+00	1.58E+00	-3.91E-01	7.33E-01
	MN-54	834.83		99.97	1.20E-01	1.20E-01	-3.32E-03	5.44E-02
	CO-56	846.75		99.96	1.08E-01	1.08E-01	-4.12E-02	4.70E-02
		1037.75		14.03	9.59E-01		2.45E-01	4.20E-01
		1238.25		67.00	2.19E-01		8.45E-02	9.51E-02
		1771.40		15.51	1.00E+00		-1.15E-01	4.23E-01
		2598.48		16.90	5.88E-01		-7.89E-02	2.20E-01
	CO-57	122.06		85.51	7.86E-02	7.86E-02	-2.76E-02	3.75E-02
		136.48		10.60	6.07E-01		-1.84E-01	2.88E-01
	CO-58	810.76		99.40	1.25E-01	1.25E-01	2.66E-02	5.56E-02
	FE-59	1099.22		56.50	2.83E-01	2.83E-01	-1.24E-01	1.22E-01
		1291.56		43.20	4.06E-01		1.31E-01	1.75E-01
	CO-60	1173.22		100.00	1.05E-01	1.05E-01	2.05E-02	4.54E-02
		1332.49		100.00	1.12E-01		-2.66E-03	4.83E-02
	ZN-65	1115.52		50.75	2.21E-01	2.21E-01	7.11E-03	9.61E-02
	GA-67	93.31		35.70	1.55E+02	1.55E+02	1.30E+02	7.47E+01
		208.95		2.24	2.72E+03		5.23E+02	1.30E+03
		300.22		16.00	3.32E+02		-1.66E+02	1.55E+02
	SE-75	121.11		16.70	4.37E-01	1.22E-01	-7.60E-03	2.08E-01
		136.00		59.20	1.22E-01		-4.58E-02	5.81E-02
		264.65		59.80	1.46E-01		-3.39E-02	6.82E-02
		279.53		25.20	3.59E-01		1.60E-01	1.68E-01
		400.65		11.40	7.80E-01		6.78E-02	3.58E-01
	RB-82	776.52		13.00	1.71E+00	1.71E+00	6.98E-01	7.68E-01
	RB-83	520.41		46.00	2.17E-01	2.17E-01	1.81E-02	9.84E-02
		529.64		30.30	3.19E-01		-5.80E-02	1.44E-01
		552.65		16.40	5.89E-01		2.57E-03	2.64E-01
	KR-85	513.99		0.43	2.40E+01	2.40E+01	-7.99E+00	1.12E+01
	SR-85	513.99		99.27	1.46E-01	1.46E-01	-4.84E-02	6.77E-02
	Y-88	898.02		93.40	9.88E-02	9.88E-02	-1.09E-02	4.20E-02
		1836.01		99.38	1.02E-01		-4.96E-02	3.95E-02
	NB-93M	16.57		9.43	1.01E+04	1.01E+04	-2.41E+04	4.88E+03
	NB-94	702.63		100.00	1.06E-01	1.03E-01	-1.84E-02	4.83E-02
		871.10		100.00	1.03E-01		2.10E-02	4.62E-02
	NB-95	765.79		99.81	2.27E-01	2.27E-01	1.55E-01	1.04E-01
	NB-95M	235.69		25.00	1.52E+02	1.52E+02	3.04E+01	7.25E+01
	ZR-95	724.18		43.70	3.91E-01	2.46E-01	5.27E-02	1.81E-01
		756.72		55.30	2.46E-01		1.05E-01	1.11E-01

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Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	181.06		6.20	2.55E+03	1.70E+03	9.17E+01	1.20E+03
		739.58		12.80	1.70E+03		-8.08E+02	7.56E+02
		778.00		4.50	4.72E+03		-3.98E+03	2.08E+03
	RU-103	497.08		89.00	1.44E-01	1.44E-01	-9.77E-02	6.52E-02
+	RU-106	621.84	*	9.80	9.93E-01	9.93E-01	7.46E-01	4.51E-01
	AG-108M	433.93		89.90	7.72E-02	7.72E-02	-2.41E-03	3.50E-02
		614.37		90.40	1.06E-01		1.16E-02	4.82E-02
		722.95		90.50	1.25E-01		3.48E-02	5.75E-02
	CD-109	88.03		3.72	2.22E+00	2.22E+00	1.89E+00	1.07E+00
	AG-110M	657.75		93.14	1.34E-01	1.34E-01	5.68E-02	6.18E-02
		677.61		10.53	1.05E+00		5.16E-01	4.80E-01
		706.67		16.46	6.69E-01		7.88E-02	3.04E-01
		763.93		21.98	5.25E-01		-1.72E-01	2.38E-01
		884.67		71.63	1.50E-01		-1.58E-02	6.66E-02
		1384.27		23.94	4.44E-01		1.82E-01	1.86E-01
	CD-113M	263.70		0.02	3.25E+02	3.25E+02	4.51E+01	1.52E+02
	SN-113	255.12		1.93	4.41E+00	1.36E-01	1.73E+00	2.06E+00
		391.69		64.90	1.36E-01		-2.66E-02	6.24E-02
	TE123M	159.00		84.10	8.75E-02	8.75E-02	-1.60E-03	4.14E-02
	SB-124	602.71		97.87	1.52E-01	1.52E-01	-2.22E-03	7.00E-02
		645.85		7.26	1.58E+00		1.68E-01	7.03E-01
		722.78		11.10	1.46E+00		4.05E-01	6.70E-01
		1691.02		49.00	3.23E-01		0.00E+00	1.35E-01
	I-125	35.49		6.49	9.28E+00	9.28E+00	6.64E+00	4.47E+00
	SB-125	176.33		6.89	1.04E+00	2.18E-01	3.19E-01	4.94E-01
		427.89		29.33	2.18E-01		-1.08E-01	9.78E-02
		463.38		10.35	8.55E-01		1.73E-01	3.94E-01
		600.56		17.80	5.58E-01		1.87E-01	2.56E-01
		635.90		11.32	8.85E-01		2.50E-02	4.04E-01
	SB-126	414.70		83.30	4.70E-01	4.70E-01	-1.04E-01	2.14E-01
		666.33		99.60	4.93E-01		-4.35E-01	2.21E-01
		695.00		99.60	6.20E-01		-3.86E-03	2.84E-01
		720.50		53.80	1.07E+00		2.80E-01	4.83E-01
	SN-126	87.57		37.00	2.13E-01	2.13E-01	1.81E-01	1.03E-01
	SB-127	473.00		25.00	8.00E+01	7.38E+01	2.03E+01	3.63E+01
		685.20		35.70	7.38E+01		8.97E+00	3.35E+01
		783.80		14.70	1.88E+02		2.06E+01	8.49E+01
	I-129	29.78		57.00	2.06E+00	2.06E+00	1.89E+00	9.90E-01
		33.60		13.20	3.82E+00		-2.30E+00	1.83E+00
		39.58		7.52	3.34E+00		1.44E-01	1.60E+00
	I-131	284.30		6.05	1.70E+01	1.22E+00	3.75E-01	7.93E+00
		364.48		81.20	1.22E+00		-8.15E-01	5.58E-01
		636.97		7.26	1.73E+01		-1.79E+00	7.80E+00
		722.89		1.80	9.16E+01		2.54E+01	4.20E+01
	TE-132	49.72		13.10	4.55E+02	5.62E+01	3.43E+01	2.14E+02
		228.16		88.00	5.62E+01		2.77E+01	2.64E+01
	BA-133	81.00		33.00	1.55E-01	1.23E-01	9.24E-02	7.33E-02
		302.84		17.80	4.15E-01		1.26E-01	1.93E-01
		356.01		60.00	1.23E-01		-8.91E-03	5.69E-02
	I-133	529.87		86.30	5.21E+09	5.21E+09	-1.53E+09	2.34E+09
	XE-133	81.00		38.00	8.10E+00	8.10E+00	4.83E+00	3.83E+00
	CS-134	563.23		8.38	1.03E+00	1.16E-01	9.08E-02	4.66E-01
		569.32		15.43	4.76E-01		-3.29E-01	2.12E-01

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Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-134	604.70		97.60	1.21E-01	1.16E-01	-3.46E-01	5.64E-02
		795.84		85.40	1.16E-01		-1.23E-02	5.18E-02
		801.93		8.73	1.14E+00		5.51E-01	5.10E-01
	CS-135	268.24		16.00	5.01E-01	5.01E-01	5.74E-02	2.36E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	4.56E+00	4.87E-01	7.39E-01	2.17E+00
		163.89		4.61	6.65E+00		-6.92E-01	3.14E+00
		176.55		13.56	2.63E+00		2.33E+00	1.25E+00
		273.65		12.66	2.98E+00		1.53E-01	1.39E+00
		340.57		48.50	9.08E-01		-9.93E-03	4.25E-01
		818.50		99.70	4.87E-01		1.59E-01	2.16E-01
		1048.07		79.60	7.45E-01		3.35E-01	3.32E-01
		1235.34		19.70	2.81E+00		2.55E-01	1.22E+00
	CS-137	661.65		85.12	1.34E-01	1.34E-01	7.13E-02	6.18E-02
	LA-138	788.74		34.00	2.91E-01	1.44E-01	-2.94E-02	1.31E-01
		1435.80		66.00	1.44E-01		-4.55E-03	5.98E-02
	CE-139	165.85		80.35	8.84E-02	8.84E-02	-2.19E-02	4.17E-02
	BA-140	162.64		6.70	4.89E+00	1.72E+00	6.24E-01	2.31E+00
		304.84		4.50	8.05E+00		8.88E-01	3.72E+00
		423.70		3.20	1.30E+01		5.65E+00	5.96E+00
		437.55		2.00	1.88E+01		2.02E-02	8.51E+00
		537.32		25.00	1.72E+00		2.90E-03	7.77E-01
	LA-140	328.77		20.50	2.16E+00	6.30E-01	1.05E+00	1.01E+00
		487.03		45.50	8.11E-01		1.36E-01	3.64E-01
		815.85		23.50	2.02E+00		-4.84E-01	8.93E-01
		1596.49		95.49	6.30E-01		-1.27E-01	2.66E-01
	CE-141	145.44		48.40	2.47E-01	2.47E-01	-4.09E-02	1.17E-01
	CE-143	57.36		11.80	3.31E+06	1.27E+06	-3.57E+05	1.56E+06
		293.26		42.00	1.27E+06		-1.97E+05	5.97E+05
		664.55		5.20	1.23E+07		1.83E+06	5.64E+06
+	CE-144	133.54	*	10.80	6.97E-01	6.97E-01	4.83E-01	3.34E-01
	PM-144	476.78		42.00	1.87E-01	1.14E-01	1.84E-02	8.50E-02
		618.01		98.60	1.14E-01		1.14E-02	5.25E-02
		696.49		99.49	1.14E-01		-3.98E-02	5.19E-02
	PM-145	36.85		21.70	1.59E+00	8.17E-01	3.35E-02	7.65E-01
		37.36		39.70	8.17E-01		1.72E-02	3.93E-01
		42.30		15.10	1.26E+00		-2.73E-02	6.06E-01
		72.40		2.31	2.43E+00		-6.81E-01	1.15E+00
	PM-146	453.90		39.94	1.94E-01	1.94E-01	1.76E-02	8.84E-02
		735.90		14.01	6.27E-01		3.48E-02	2.79E-01
		747.13		13.10	7.31E-01		4.79E-02	3.28E-01
	ND-147	91.11		28.90	1.91E+00	1.91E+00	-1.46E+00	9.21E-01
		531.02		13.10	4.28E+00		1.09E-01	1.94E+00
	PM-149	285.90		3.10	3.88E+04	3.88E+04	6.56E+03	1.81E+04
	EU-152	121.78		20.50	3.04E-01	3.04E-01	-1.07E-01	1.45E-01
		244.69		5.40	1.30E+00		-1.65E+00	6.09E-01
		344.27		19.13	4.39E-01		2.85E-01	2.05E-01
		778.89		9.20	9.51E-01		-6.19E-01	4.21E-01
		964.01		10.40	1.40E+00		-1.57E+00	6.41E-01
		1085.78		7.22	1.07E+00		-2.66E-01	4.44E-01
		1112.02		9.60	1.01E+00		0.00E+00	4.34E-01

00474

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	8.01E-01	3.04E-01	2.79E-01	3.46E-01
	GD-153	97.43		31.30	2.04E-01	2.04E-01	3.26E-02	9.71E-02
		103.18		22.20	2.89E-01		-1.76E-02	1.38E-01
	EU-154	123.07		40.50	1.60E-01	1.60E-01	6.87E-02	7.64E-02
		723.30		19.70	5.80E-01		1.61E-01	2.66E-01
		873.19		11.50	8.73E-01		3.56E-02	3.88E-01
		996.32		10.30	9.68E-01		8.29E-02	4.24E-01
		1004.76		17.90	6.65E-01		2.22E-01	2.98E-01
		1274.45		35.50	3.50E-01		1.68E-01	1.54E-01
	EU-155	86.50		30.90	2.52E-01	2.52E-01	5.14E-03	1.22E-01
		105.30		20.70	3.08E-01		2.66E-01	1.47E-01
	EU-156	811.77		10.40	3.80E+00	3.80E+00	1.07E+00	1.69E+00
		1153.47		7.20	7.01E+00		2.61E+00	3.11E+00
		1230.71		8.90	5.14E+00		1.47E+00	2.24E+00
	HO-166M	184.41		72.60	1.17E-01	1.17E-01	1.83E-02	5.63E-02
		280.45		29.60	2.56E-01		1.14E-01	1.20E-01
		410.94		11.10	6.59E-01		-2.55E-02	3.01E-01
		711.69		54.10	1.88E-01		4.64E-03	8.52E-02
	TM-171	66.72		0.14	4.11E+01	4.11E+01	1.98E+01	1.94E+01
	HF-172	81.75		4.52	1.13E+00	5.71E-01	-3.34E-01	5.32E-01
		125.81		11.30	5.71E-01		-9.27E-01	2.72E-01
	LU-172	181.53		20.60	7.52E+00	4.02E+00	1.75E+00	3.54E+00
		810.06		16.63	1.37E+01		2.91E+00	6.08E+00
		912.12		15.25	3.02E+01		4.29E+01	1.42E+01
		1093.66		62.50	4.02E+00		5.04E-01	1.75E+00
	LU-173	100.72		5.24	1.16E+00	3.85E-01	3.70E-01	5.51E-01
		272.11		21.20	3.85E-01		-6.19E-02	1.81E-01
	HF-175	343.40		84.00	1.33E-01	1.33E-01	8.55E-02	6.22E-02
	LU-176	88.34		13.30	5.92E-01	6.93E-02	5.04E-01	2.86E-01
		201.83		86.00	7.93E-02		-3.01E-02	3.74E-02
		306.78		94.00	6.93E-02		1.24E-02	3.19E-02
	TA-182	67.75		41.20	1.60E-01	1.60E-01	8.29E-03	7.55E-02
		1121.30		34.90	5.00E-01		2.90E-01	2.27E-01
		1189.05		16.23	6.76E-01		-5.82E-02	2.85E-01
		1221.41		26.98	4.49E-01		6.55E-02	1.92E-01
		1231.02		11.44	1.10E+00		1.41E-01	4.74E-01
	IR-192	308.46		29.68	2.89E-01	2.09E-01	-8.52E-02	1.33E-01
		468.07		48.10	2.09E-01		1.55E-02	9.51E-02
	HG-203	279.19		77.30	1.48E-01	1.48E-01	-3.44E-02	6.90E-02
	BI-207	569.67		97.72	7.32E-02	7.32E-02	-5.07E-02	3.26E-02
		1063.62		74.90	1.20E-01		-1.28E-02	5.14E-02
+	TL-208	583.14	*	30.22	3.50E-01	2.44E-01	1.01E+00	1.62E-01
		860.37	*	4.48	1.78E+00		9.45E-01	7.69E-01
		2614.66	*	35.85	2.44E-01		7.21E-01	9.54E-02
	BI-210M	262.00		45.00	1.63E-01	1.63E-01	7.89E-02	7.62E-02
		300.00		23.00	3.15E-01		-1.58E-01	1.46E-01
	PB-210	46.50		4.25	3.26E+00	3.26E+00	3.64E+00	1.56E+00
	PB-211	404.84		2.90	2.64E+00	2.64E+00	1.58E+00	1.21E+00
		831.96		2.90	3.44E+00		-1.29E+00	1.54E+00
+	BI-212	727.17	*	11.80	1.14E+00	1.14E+00	7.25E-01	5.29E-01
		1620.62		2.75	4.11E+00		1.30E+00	1.73E+00
+	PB-212	238.63	*	44.60	2.87E-01	2.87E-01	9.00E-01	1.39E-01
		300.09		3.41	2.12E+00		-1.06E+00	9.88E-01

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Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	3.58E-01	3.58E-01	5.78E-01	1.70E-01
		1120.29	*	15.10	9.09E-01		6.62E-01	4.10E-01
		1764.49		15.80	1.07E+00		6.11E-01	4.79E-01
		2204.22		4.98	2.04E+00		7.41E-01	8.26E-01
+	PB-214	295.21	*	19.19	5.71E-01	2.95E-01	3.54E-01	2.73E-01
		351.92	*	37.19	2.95E-01		6.29E-01	1.40E-01
	RN-219	401.80		6.50	1.11E+00	1.11E+00	-2.54E-01	5.06E-01
	RA-223	323.87		3.88	1.76E+00	1.76E+00	-7.09E-01	8.12E-01
	RA-224	240.98		3.95	3.59E+00	3.59E+00	8.26E+00	1.74E+00
	RA-225	40.00		31.00	3.33E+00	3.33E+00	1.44E-01	1.60E+00
+	RA-226	186.21	*	3.28	2.21E+00	2.21E+00	2.35E+00	1.05E+00
	TH-227	50.10		8.40	9.45E-01	8.51E-01	7.12E-02	4.44E-01
		236.00		11.50	8.51E-01		1.70E-01	4.07E-01
		256.20		6.30	1.08E+00		4.70E-02	5.04E-01
+	AC-228	338.32	*	11.40	7.73E-01	4.98E-01	7.33E-01	3.62E-01
		911.07	*	27.70	4.98E-01		9.76E-01	2.29E-01
		969.11	*	16.60	1.08E+00		1.63E+00	5.05E-01
	TH-230	48.44		16.90	5.37E-01	5.37E-01	-3.81E-01	2.53E-01
		62.85		4.60	1.61E+00		1.72E+00	7.68E-01
		67.67		0.37	1.48E+01		7.66E-01	6.97E+00
	PA-231	283.67		1.60	4.42E+00	3.19E+00	9.74E-02	2.06E+00
		302.67		2.30	3.19E+00		9.69E-01	1.49E+00
	TH-231	25.64		14.70	2.47E+01	8.19E-01	1.79E+01	1.19E+01
		84.21		6.40	8.19E-01		1.33E-01	3.88E-01
	PA-233	311.98		38.60	4.00E-01	4.00E-01	1.43E-01	1.85E-01
	PA-234	131.20		20.40	3.41E-01	3.41E-01	1.74E-01	1.63E-01
		733.99		8.80	1.01E+00		-1.25E-01	4.48E-01
		946.00		12.00	7.71E-01		-5.47E-01	3.36E-01
+	PA-234M	1001.03	*	0.92	1.25E+01	1.25E+01	7.30E+00	5.56E+00
	TH-234	63.29		3.80	1.93E+00	1.93E+00	2.06E+00	9.23E-01
	U-235	143.76		10.50	5.48E-01	5.48E-01	-4.58E-01	2.59E-01
		163.35		4.70	1.30E+00		1.66E-01	6.14E-01
		205.31		4.70	1.60E+00		3.40E-01	7.59E-01
	NP-237	86.50		12.60	6.11E-01	6.11E-01	1.24E-02	2.95E-01
	NP-239	106.10		22.70	2.59E+03	2.59E+03	1.13E+03	1.24E+03
		228.18		10.70	5.82E+03		2.87E+03	2.73E+03
		277.60		14.10	4.86E+03		8.91E+02	2.27E+03
	AM-241	59.54		35.90	1.79E-01	1.79E-01	-2.85E-02	8.48E-02
	AM-243	74.67		66.00	1.29E-01	1.29E-01	-1.61E-01	6.25E-02
	CM-243	209.75		3.29	2.58E+00	5.28E-01	2.41E+00	1.23E+00
		228.14		10.60	6.34E-01		3.12E-01	2.97E-01
		277.60		14.00	5.28E-01		9.68E-02	2.47E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

00476

Analysis Report for 1507182-06

FEEBRIS1D-6 080-081

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-6 080-081

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	94
9:	417	953	950	311	473	1715	367	120
17:	106	92	90	76	73	64	70	68
25:	77	68	67	47	78	62	83	55
33:	60	45	73	82	66	62	68	69
41:	68	70	53	62	59	66	80	34
49:	27	32	24	23	27	41	24	26
57:	25	35	34	33	36	38	55	66
65:	28	26	42	32	24	34	29	31
73:	54	49	156	82	174	117	18	34
81:	37	33	28	39	46	36	62	74
89:	37	59	36	42	88	56	24	22
97:	24	28	32	37	29	19	23	31
105:	40	36	33	24	30	25	27	40
113:	17	24	26	19	22	22	28	26
121:	34	20	31	32	36	25	25	23
129:	56	24	24	34	32	34	30	23
137:	19	16	29	29	23	18	18	29
145:	19	19	33	31	19	21	28	28
153:	18	26	29	26	24	17	20	24
161:	20	18	20	18	24	15	20	20
169:	23	16	19	19	25	20	29	18
177:	31	23	18	11	22	24	19	15
185:	36	78	40	15	15	25	21	12
193:	22	17	13	18	22	18	10	19
201:	18	19	23	16	31	20	24	16
209:	41	33	23	29	13	12	14	20
217:	11	16	14	16	16	18	16	14
225:	10	15	11	13	18	20	12	19
233:	15	18	23	14	17	91	210	34
241:	33	40	25	13	13	9	16	19
249:	18	14	9	13	16	11	14	13
257:	19	10	11	12	15	18	17	14
265:	11	18	14	16	20	21	21	13
273:	14	14	17	14	9	30	6	12
281:	10	16	12	6	16	13	14	15
289:	11	11	9	14	11	15	40	29
297:	15	10	7	17	13	14	17	7
305:	11	6	10	8	12	9	11	7
313:	16	10	5	14	12	12	8	16
321:	10	8	13	7	12	8	14	20
329:	15	10	11	11	10	22	11	6
337:	11	43	28	10	7	17	11	16
345:	15	9	9	5	11	9	31	92
353:	31	7	13	8	9	12	9	14
361:	6	10	6	11	6	7	16	6

00478

369:	5	8	14	7	9	8	10	7

Sample Title: FEEBRIS1D-6 080-081

Channel								
377:	10	16	7	7	4	8	5	9
385:	8	9	9	7	7	13	9	7
393:	6	7	11	7	6	6	12	4
401:	10	6	10	9	7	10	8	4
409:	9	13	5	9	3	6	12	7
417:	6	9	9	5	11	7	12	8
425:	7	8	4	4	2	8	7	9
433:	5	4	7	7	8	4	6	7
441:	8	8	9	9	9	10	12	8
449:	3	1	5	9	12	5	10	1
457:	11	6	7	9	10	11	12	8
465:	6	10	6	6	5	7	10	2
473:	4	11	6	5	4	10	7	3
481:	6	15	6	6	2	5	6	6
489:	7	7	4	6	7	7	6	7
497:	6	7	4	13	10	3	4	5
505:	10	6	4	6	16	24	55	23
513:	13	10	5	8	4	6	6	3
521:	7	9	6	5	5	7	8	3
529:	4	6	7	7	7	6	7	6
537:	7	5	6	6	6	7	5	6
545:	10	9	9	7	6	8	6	2
553:	6	4	6	3	5	7	9	4
561:	5	10	6	4	7	8	3	4
569:	7	5	3	7	9	7	6	7
577:	3	5	7	8	6	14	63	35
585:	2	5	4	3	4	6	7	6
593:	3	6	1	3	9	5	6	7
601:	3	6	4	7	7	12	6	15
609:	55	32	6	8	4	2	7	8
617:	2	6	4	12	7	8	7	2
625:	4	5	7	3	5	6	3	6
633:	11	5	3	6	0	7	5	2
641:	4	4	4	1	6	1	1	2
649:	8	1	9	3	4	3	10	2
657:	7	4	9	10	7	9	3	6
665:	5	3	5	3	1	10	3	4
673:	2	7	4	8	5	5	3	4
681:	5	1	7	9	5	3	6	2
689:	7	1	6	8	4	6	3	5
697:	6	8	6	9	5	4	5	3
705:	5	3	8	7	2	4	4	11
713:	2	3	2	6	5	5	1	7
721:	5	7	2	5	7	8	14	8
729:	6	7	3	4	2	2	6	3
737:	3	2	4	3	2	5	8	3
745:	2	3	5	4	3	6	1	0
753:	2	4	4	8	2	5	2	5
761:	2	3	5	4	6	6	6	10
769:	7	3	4	4	4	3	5	3
777:	2	0	8	0	1	6	7	5
785:	2	6	2	4	3	5	4	3
793:	2	3	7	6	4	1	1	6

801:	2	2	8	3	2	2	0	3

Sample Title: FEEBRIS1D-6 080-081

Channel								
809:	5	4	5	2	2	2	3	3
817:	2	3	4	4	3	2	2	3
825:	4	3	3	3	2	2	5	3
833:	3	5	4	4	9	3	5	6
841:	5	3	0	2	2	4	2	2
849:	3	4	1	2	3	2	3	2
857:	1	1	3	9	5	4	0	5
865:	1	4	3	5	1	6	1	1
873:	3	7	0	4	3	3	1	7
881:	0	3	4	5	3	3	3	3
889:	6	5	4	1	2	3	3	0
897:	0	2	1	4	1	4	1	4
905:	4	0	1	3	3	22	25	19
913:	3	2	5	2	3	4	1	2
921:	3	2	6	6	0	2	4	4
929:	4	2	1	1	4	4	2	2
937:	0	2	4	1	6	4	4	0
945:	4	1	1	1	5	6	2	5
953:	1	2	1	2	3	2	1	1
961:	4	6	5	10	9	4	4	7
969:	31	9	3	1	5	1	3	3
977:	2	3	0	3	1	3	5	5
985:	2	2	4	1	0	2	2	0
993:	4	1	4	2	1	1	4	2
1001:	8	1	6	2	4	1	3	0
1009:	4	2	3	2	2	3	2	2
1017:	2	3	0	1	4	1	4	1
1025:	3	2	5	1	4	1	1	3
1033:	2	4	2	1	3	2	1	4
1041:	1	1	3	4	0	3	6	5
1049:	3	3	2	0	0	3	5	3
1057:	1	3	1	2	3	0	2	3
1065:	0	2	2	2	1	2	6	2
1073:	3	2	3	3	4	3	3	1
1081:	3	0	1	3	2	1	0	1
1089:	2	1	3	2	2	3	1	3
1097:	4	0	3	0	1	3	6	2
1105:	1	1	2	2	3	1	2	1
1113:	2	3	1	3	2	3	3	13
1121:	7	5	1	0	2	2	2	2
1129:	1	2	3	1	2	2	3	4
1137:	3	2	0	2	4	3	2	2
1145:	2	2	1	2	4	5	5	1
1153:	2	2	4	2	1	1	4	3
1161:	2	1	0	1	5	3	2	3
1169:	1	1	3	4	1	0	1	4
1177:	2	0	2	1	2	1	1	1
1185:	1	5	2	1	0	0	0	2
1193:	3	2	2	1	3	2	3	2
1201:	2	1	3	2	1	1	0	2
1209:	2	1	0	0	1	3	2	3
1217:	3	0	1	4	4	0	2	1
1225:	0	0	3	1	5	2	1	2

1233:	1	1	3	0	3	4	1	3

Sample Title: FEEBRIS1D-6 080-081

Channel								
1241:	1	1	1	2	3	4	4	1
1249:	4	3	2	0	3	5	1	0
1257:	2	3	1	3	1	2	3	2
1265:	1	3	1	0	0	3	2	1
1273:	1	4	0	8	2	1	0	0
1281:	3	2	1	1	2	3	0	1
1289:	2	2	2	2	2	2	1	0
1297:	0	1	1	2	2	2	1	2
1305:	3	1	2	2	4	1	0	1
1313:	1	2	1	2	3	1	3	3
1321:	1	1	0	2	3	3	3	3
1329:	1	2	1	4	1	2	2	2
1337:	0	1	0	2	1	0	2	5
1345:	0	1	1	0	2	2	0	0
1353:	0	1	1	3	0	1	3	1
1361:	2	3	1	1	0	1	3	1
1369:	2	0	1	0	0	1	0	1
1377:	2	0	0	0	2	2	0	1
1385:	1	3	0	1	0	0	2	3
1393:	2	0	3	2	1	0	0	0
1401:	0	1	1	0	3	4	3	1
1409:	2	1	1	1	2	0	1	0
1417:	2	1	1	1	1	1	0	1
1425:	2	0	0	0	1	0	2	2
1433:	3	1	1	0	0	1	0	2
1441:	1	1	2	2	1	2	1	0
1449:	1	2	1	1	1	0	0	2
1457:	0	2	5	20	38	12	4	0
1465:	2	0	0	0	0	1	0	0
1473:	0	1	0	2	0	0	0	2
1481:	1	2	0	1	1	1	0	0
1489:	1	0	2	1	2	1	2	1
1497:	0	1	3	2	2	6	0	0
1505:	0	0	3	1	4	1	1	1
1513:	1	0	1	0	0	1	1	2
1521:	2	1	1	0	1	1	1	0
1529:	0	2	0	2	0	3	0	2
1537:	0	2	3	1	0	0	0	2
1545:	1	2	0	0	1	1	1	0
1553:	0	0	0	1	0	0	1	1
1561:	0	3	1	1	1	1	1	1
1569:	0	2	0	0	0	1	1	1
1577:	1	1	1	1	0	1	0	1
1585:	1	2	2	3	0	1	2	0
1593:	3	2	1	2	0	0	1	1
1601:	1	2	1	0	0	0	0	2
1609:	1	0	0	1	0	1	0	0
1617:	2	2	1	2	2	1	0	0
1625:	1	0	2	0	0	1	3	1
1633:	0	0	2	1	1	2	1	1
1641:	0	1	5	0	2	1	0	2
1649:	2	3	0	1	0	0	2	0
1657:	1	1	1	2	1	2	0	0

1665:	1	0	1	1	1	3	0	1

Sample Title: FEEBRIS1D-6 080-081

Channel								
1673:	0	0	0	1	0	1	1	1
1681:	0	0	3	0	2	0	1	1
1689:	0	0	1	1	4	1	0	2
1697:	0	2	0	0	0	0	1	0
1705:	0	0	1	0	0	0	3	0
1713:	1	0	0	0	1	0	1	1
1721:	1	0	0	0	0	1	0	1
1729:	1	1	1	0	1	2	3	0
1737:	1	0	0	0	1	0	0	0
1745:	0	1	0	2	0	1	1	0
1753:	0	1	0	0	0	1	0	1
1761:	0	0	4	6	4	5	1	2
1769:	2	1	3	0	0	0	1	0
1777:	0	0	1	1	0	0	3	1
1785:	1	0	1	1	1	1	1	0
1793:	0	0	0	1	0	0	2	1
1801:	0	0	1	0	1	2	0	0
1809:	1	3	0	1	1	2	2	2
1817:	2	2	1	2	2	0	2	0
1825:	1	0	0	1	2	1	0	0
1833:	1	0	0	1	0	0	2	1
1841:	1	0	1	0	0	2	2	1
1849:	0	1	1	1	0	0	0	2
1857:	0	1	0	0	1	0	1	1
1865:	0	1	0	1	1	0	0	0
1873:	1	2	1	2	0	0	1	1
1881:	1	1	0	0	0	0	1	0
1889:	1	0	0	2	1	2	0	0
1897:	1	1	1	0	1	1	1	2
1905:	0	0	0	0	1	0	1	1
1913:	1	2	1	0	0	0	0	0
1921:	0	0	0	2	0	0	0	2
1929:	1	1	0	2	0	0	2	0
1937:	1	4	3	0	0	2	1	0
1945:	0	1	0	1	1	2	1	1
1953:	0	0	0	1	2	0	1	0
1961:	0	0	2	0	0	0	0	1
1969:	2	0	0	3	0	0	0	1
1977:	0	0	0	0	1	1	0	1
1985:	0	0	1	0	2	0	1	1
1993:	1	0	1	1	2	0	0	0
2001:	0	2	2	0	1	1	0	0
2009:	0	1	1	0	2	0	0	0
2017:	1	2	0	1	1	1	0	0
2025:	0	0	0	2	0	0	1	0
2033:	0	2	0	0	1	1	0	0
2041:	0	0	1	1	0	0	1	0
2049:	0	0	1	1	0	1	2	0
2057:	1	0	0	2	0	1	0	0
2065:	0	0	0	0	0	0	0	0
2073:	2	0	0	0	0	0	2	0
2081:	0	0	0	1	0	1	1	1
2089:	0	1	0	0	0	0	0	1

2097:	1	0	4	0	2	1	0	0

Sample Title: FEEBRIS1D-6 080-081

Channel								
2105:	0	1	2	1	2	0	0	0
2113:	1	1	0	2	0	0	1	0
2121:	0	0	1	1	1	1	0	0
2129:	0	0	2	0	1	0	0	1
2137:	0	1	1	1	0	0	0	2
2145:	3	0	1	0	2	0	0	1
2153:	0	0	0	0	1	1	0	0
2161:	1	0	1	3	2	1	0	0
2169:	2	1	0	1	2	0	1	1
2177:	0	1	0	1	0	1	0	0
2185:	0	0	0	1	0	0	0	0
2193:	0	0	1	0	0	0	1	1
2201:	0	1	2	2	0	0	0	0
2209:	0	0	0	3	1	2	0	0
2217:	1	1	1	0	0	0	0	0
2225:	0	0	0	1	1	0	0	2
2233:	0	0	1	0	1	0	0	1
2241:	0	0	0	0	0	0	0	0
2249:	1	0	2	1	0	1	1	0
2257:	2	3	0	0	1	2	0	1
2265:	0	1	1	0	1	0	0	1
2273:	0	0	2	0	0	0	1	0
2281:	0	0	0	0	1	0	0	0
2289:	0	0	1	4	0	1	1	0
2297:	1	1	0	0	0	1	1	1
2305:	1	1	0	0	0	0	1	2
2313:	1	0	3	0	0	0	2	0
2321:	2	0	1	0	0	1	0	0
2329:	1	1	1	1	2	0	0	1
2337:	1	1	0	0	2	0	1	1
2345:	0	0	1	0	0	0	1	4
2353:	1	2	1	2	0	0	0	1
2361:	1	2	2	0	1	0	0	0
2369:	1	0	1	1	0	0	2	0
2377:	1	0	0	0	0	0	0	0
2385:	0	0	0	1	0	0	1	1
2393:	1	0	0	0	0	1	0	0
2401:	1	0	0	0	2	1	1	0
2409:	0	0	1	0	2	0	1	0
2417:	2	0	0	1	0	0	0	0
2425:	0	0	0	0	0	1	0	2
2433:	0	0	1	1	0	0	0	1
2441:	1	0	0	1	0	1	2	3
2449:	0	0	0	0	0	0	1	0
2457:	0	0	0	0	1	0	0	0
2465:	0	0	0	0	2	1	0	0
2473:	0	0	0	0	0	0	0	0
2481:	1	1	0	0	0	0	1	0
2489:	0	1	0	1	0	1	1	0
2497:	2	0	0	1	1	1	0	2
2505:	0	0	0	0	0	0	1	0
2513:	0	1	0	1	1	1	0	1
2521:	1	1	0	0	0	0	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-6 080-081

Channel								
2537:	1	0	1	1	0	0	0	0
2545:	0	0	0	1	0	0	1	0
2553:	0	0	0	0	0	0	0	0
2561:	0	1	1	1	1	0	0	1
2569:	0	0	0	0	1	0	0	0
2577:	0	0	1	0	0	0	1	0
2585:	0	0	0	0	1	0	1	1
2593:	0	0	0	0	0	0	1	0
2601:	1	1	0	0	0	0	0	0
2609:	2	1	0	4	10	8	16	4
2617:	0	0	0	1	1	0	0	1
2625:	0	0	0	1	0	0	1	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	0	1	0	1	0
2649:	0	0	2	0	0	0	0	0
2657:	0	0	1	0	1	0	1	0
2665:	1	0	0	0	0	0	0	1
2673:	0	0	1	0	1	0	0	0
2681:	0	0	0	0	1	2	0	0
2689:	0	0	0	0	0	0	1	1
2697:	0	0	1	0	1	0	1	0
2705:	2	1	0	0	1	1	0	0
2713:	1	0	0	0	0	0	0	1
2721:	0	0	0	0	0	0	1	0
2729:	1	0	1	0	0	0	0	0
2737:	0	0	1	0	2	0	1	0
2745:	0	0	1	0	0	0	0	0
2753:	0	0	0	0	0	0	0	1
2761:	0	0	0	0	0	1	1	1
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	0	0	2	1
2785:	0	0	0	0	0	0	1	1
2793:	0	0	0	1	0	0	0	1
2801:	0	0	0	0	0	0	0	2
2809:	0	0	0	0	1	0	0	0
2817:	0	0	0	0	0	1	1	0
2825:	0	0	0	1	0	0	1	0
2833:	0	0	0	0	0	0	0	1
2841:	0	0	0	1	0	1	0	0
2849:	0	1	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	1	0	0	1	1	1	0
2881:	0	1	1	0	1	0	0	0
2889:	0	0	0	0	0	0	1	0
2897:	0	1	1	1	0	0	1	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	1	0	0	0
2921:	0	2	0	0	0	0	0	0
2929:	0	0	0	0	1	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	1	0	0	0	1	0	0

2961:	1	3	0	1	0	1	0	0

Sample Title: FEEBRIS1D-6 080-081

Channel								
2969:	0	0	0	0	0	0	1	0
2977:	1	0	0	1	0	0	0	1
2985:	0	0	0	1	1	0	1	0
2993:	0	0	1	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	1	0	1	0	1	0
3017:	1	1	0	0	0	0	0	0
3025:	0	0	1	1	0	0	0	0
3033:	0	1	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	1	0	0	1
3057:	0	0	0	0	1	0	0	0
3065:	1	0	0	0	0	0	0	1
3073:	0	0	0	1	0	1	0	0
3081:	0	0	0	1	0	0	0	1
3089:	0	1	0	0	1	0	0	0
3097:	0	0	0	0	1	0	0	0
3105:	0	1	0	0	0	0	0	0
3113:	0	0	1	0	0	1	0	1
3121:	0	0	0	0	2	0	0	0
3129:	0	0	0	1	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	1	0	0	0	0	1	0	1
3153:	0	0	0	1	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	1	0	0	0	0
3177:	0	0	0	0	0	0	0	2
3185:	0	0	1	3	0	0	0	0
3193:	0	0	0	1	0	0	0	0
3201:	0	0	0	0	0	0	1	0
3209:	0	0	1	0	0	0	0	1
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	1
3233:	2	2	0	0	1	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	1	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	1	0
3265:	3	1	0	0	0	0	1	0
3273:	0	0	0	1	1	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	1	0	0	1	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	1	0	0	0	0	0
3321:	0	0	1	0	0	0	0	0
3329:	0	1	1	0	1	0	0	0
3337:	0	0	1	0	0	0	0	0
3345:	0	1	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	1	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	1	0
3385:	0	0	0	0	0	0	0	1

3393:	0	0	0	1	0	0	0	0

Sample Title: FEEBRIS1D-6 080-081

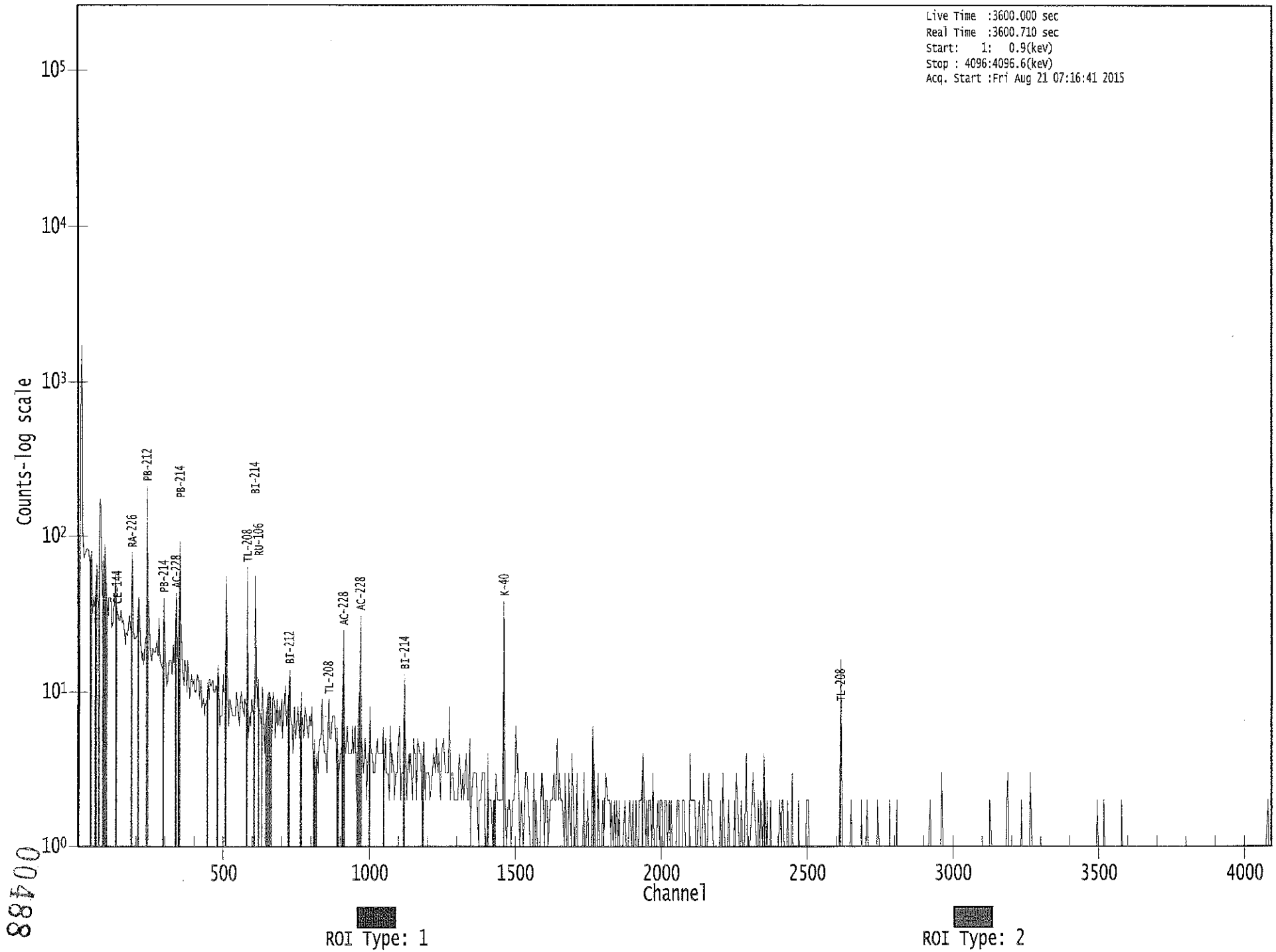
Channel								
3401:	0	0	0	1	0	0	0	0
3409:	0	0	0	0	0	0	0	1
3417:	0	1	1	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	1	1
3449:	0	0	0	0	1	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	1	0	0	0	0	0	0
3481:	1	0	0	0	0	0	0	0
3489:	0	0	0	0	0	2	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	2	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	0	1	1	0	0	0
3537:	0	0	0	1	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	1	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	2	0	0	1	0	0	0
3585:	0	0	0	0	0	0	0	1
3593:	0	0	0	0	0	1	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	1
3617:	0	0	0	0	0	0	0	0
3625:	0	1	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	1	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	1	0	1	0	0	1	0	0
3697:	0	0	0	0	1	0	0	0
3705:	0	1	1	0	0	0	0	1
3713:	0	0	0	0	0	0	0	0
3721:	1	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	1	0	0	0	0	0
3745:	1	0	0	1	0	0	1	0
3753:	1	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	1
3769:	0	0	0	0	0	0	1	0
3777:	0	0	1	0	1	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	1	0	0
3801:	0	0	1	0	1	0	0	0
3809:	0	0	0	0	1	0	1	0
3817:	1	0	0	0	0	1	0	0

3825:	0	0	0	1	0	0	0	0

Sample Title: FEEBRIS1D-6 080-081

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	1	0	1	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	1	0	0	0	0	0	0	0
3873:	0	0	0	0	0	1	1	0
3881:	0	0	0	1	1	0	0	0
3889:	0	0	0	1	0	0	0	0
3897:	0	0	1	0	0	0	0	1
3905:	0	0	0	0	0	1	1	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	1	0	0	1
3945:	0	0	0	0	1	0	0	0
3953:	1	0	1	0	0	0	0	0
3961:	1	0	1	0	0	1	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	1	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	1	0	0	0	1	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	1	0	1	0	0	0	0	0
4017:	0	0	0	1	0	0	0	0
4025:	0	0	0	1	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	1	0	0	0	1
4057:	0	0	0	0	1	0	0	0
4065:	0	0	0	0	1	1	0	0
4073:	1	0	0	0	1	0	0	2
4081:	0	0	0	0	0	0	0	0
4089:	0	1	1	0	0	0	0	1

0000026231.CNF



88400

Apex-Gamma

Analysis Report for 1507182-07
FEEBRIS1D-6 085-086

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-07
Sample Description	: FEEBRIS1D-6 085-086
Sample Type	: SOIL
Sample Size	: 3.179E+02 grams
Facility	: Countroom
Sample Taken On	: 7/21/2015 6:46:09AM
Acquisition Started	: 8/21/2015 8:19:16AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26238

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

00489

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 9:19:20AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	74.78	75.12	0.0000	0.00
2	77.51	77.86	0.0000	0.00
3	87.80	88.13	0.0000	0.00
4	185.99	186.30	0.0000	0.00
5	238.69	238.98	0.0000	0.00
6	241.87	242.15	0.0000	0.00
7	276.14	276.42	0.0000	0.00
8	295.26	295.53	0.0000	0.00
9	313.50	313.76	0.0000	0.00
10	338.77	339.02	0.0000	0.00
11	352.17	352.42	0.0000	0.00
12	510.83	511.03	0.0000	0.00
13	571.82	571.99	0.0000	0.00
14	583.34	583.51	0.0000	0.00
15	609.66	609.82	0.0000	0.00
16	646.77	646.92	0.0000	0.00
17	673.61	673.75	0.0000	0.00
18	756.86	756.97	0.0000	0.00
19	804.29	804.38	0.0000	0.00
20	874.83	874.90	0.0000	0.00
21	879.93	880.00	0.0000	0.00
22	899.91	899.97	0.0000	0.00
23	911.16	911.21	0.0000	0.00
24	934.37	934.41	0.0000	0.00
25	968.69	968.73	0.0000	0.00
26	1051.60	1051.61	0.0000	0.00
27	1071.23	1071.23	0.0000	0.00
28	1080.16	1080.15	0.0000	0.00
29	1120.65	1120.63	0.0000	0.00
30	1139.80	1139.78	0.0000	0.00
31	1164.65	1164.61	0.0000	0.00
32	1238.42	1238.36	0.0000	0.00
33	1280.53	1280.46	0.0000	0.00
34	1292.92	1292.84	0.0000	0.00
35	1460.96	1460.82	0.0000	0.00
36	1531.34	1531.17	0.0000	0.00
37	1729.77	1729.52	0.0000	0.00
38	1765.10	1764.84	0.0000	0.00
39	2327.07	2326.60	0.0000	0.00
40	2332.14	2331.67	0.0000	0.00
41	2614.62	2614.03	0.0000	0.00

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 9:19:20AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	74.78	71 -	81	75.12	1.39E+02	46.39	3.29E+02	1.77
m	2	77.51	71 -	81	77.86	1.97E+02	52.69	3.14E+02	1.77
m	3	87.80	82 -	98	88.13	9.17E+01	35.38	2.33E+02	1.48
	4	185.99	183 -	189	186.30	1.05E+02	42.54	2.54E+02	1.19
M	5	238.69	235 -	246	238.98	2.23E+02	39.53	1.55E+02	1.68
m	6	241.87	235 -	246	242.15	4.66E+01	32.73	1.40E+02	1.68
	7	276.14	268 -	287	276.42	1.37E+02	66.00	3.04E+02	9.64
	8	295.26	292 -	297	295.53	3.07E+01	27.73	1.75E+02	1.57
	9	313.50	310 -	317	313.76	2.30E+01	29.33	1.28E+02	2.89
	10	338.77	335 -	342	339.02	3.73E+01	29.26	1.13E+02	1.08
	11	352.17	348 -	357	352.42	1.51E+02	42.65	1.70E+02	1.89
	12	510.83	506 -	516	511.03	1.21E+02	37.28	1.21E+02	2.08
	13	571.82	567 -	577	571.99	2.71E+01	26.14	7.57E+01	2.81
	14	583.34	578 -	589	583.51	9.17E+01	32.25	8.47E+01	1.92
	15	609.66	606 -	613	609.82	1.01E+02	28.84	6.94E+01	1.81
	16	646.77	644 -	649	646.92	1.07E+01	13.30	2.66E+01	2.78
	17	673.61	671 -	676	673.75	1.40E+01	15.36	3.60E+01	1.96
	18	756.86	755 -	760	756.97	1.49E+01	12.77	2.01E+01	1.93
	19	804.29	801 -	810	804.38	1.80E+01	20.54	5.00E+01	2.50
M	20	874.83	873 -	888	874.90	1.44E+01	9.94	5.91E+00	2.84
m	21	879.93	873 -	888	880.00	8.73E+00	10.15	8.89E+00	1.94
	22	899.91	896 -	904	899.97	1.75E+01	19.04	4.50E+01	3.09
	23	911.16	905 -	916	911.21	4.40E+01	26.53	6.59E+01	1.83
	24	934.37	930 -	938	934.41	2.35E+01	17.26	3.11E+01	4.26
	25	968.69	965 -	972	968.73	2.02E+01	22.00	6.56E+01	1.22
	26	1051.60	1046 -	1055	1051.61	1.61E+01	16.55	2.99E+01	2.84
	27	1071.23	1064 -	1077	1071.23	2.54E+01	23.13	4.51E+01	7.74
	28	1080.16	1078 -	1083	1080.15	1.04E+01	10.20	1.32E+01	2.64
	29	1120.65	1117 -	1124	1120.63	2.90E+01	17.55	3.20E+01	2.22
	30	1139.80	1137 -	1142	1139.78	9.76E+00	10.63	1.45E+01	2.47
	31	1164.65	1162 -	1166	1164.61	8.90E+00	11.67	2.22E+01	0.99
	32	1238.42	1235 -	1241	1238.36	1.61E+01	19.08	5.19E+01	1.79
	33	1280.53	1278 -	1283	1280.46	8.90E+00	10.25	1.22E+01	2.95
	34	1292.92	1290 -	1296	1292.84	8.43E+00	9.63	1.11E+01	2.94
	35	1460.96	1455 -	1466	1460.82	2.86E+02	37.84	3.55E+01	2.19
	36	1531.34	1529 -	1533	1531.17	6.00E+00	4.90	0.00E+00	1.98
	37	1729.77	1726 -	1732	1729.52	6.31E+00	6.65	3.38E+00	1.77
	38	1765.10	1761 -	1768	1764.84	1.30E+01	8.72	4.07E+00	1.52
	39	2327.07	2322 -	2328	2326.60	5.00E+00	4.47	0.00E+00	1.00
	40	2332.14	2330 -	2334	2331.67	6.00E+00	4.90	0.00E+00	1.00

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	2614.62	2610 -	2618	2614.03	2.90E+01	10.77	0.00E+00	1.83

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 9:19:20AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	74.78	71 -	81	1.39E+02	46.39	3.29E+02	2.98E+01
m	2	77.51	71 -	81	1.97E+02	52.69	3.14E+02	2.91E+01
m	3	87.80	82 -	98	9.17E+01	35.38	2.33E+02	2.51E+01
	4	185.99	183 -	189	1.05E+02	42.54	2.54E+02	3.06E+01
M	5	238.69	235 -	246	2.23E+02	39.53	1.55E+02	2.05E+01
m	6	241.87	235 -	246	4.66E+01	32.73	1.40E+02	1.95E+01
	7	276.14	268 -	287	1.37E+02	66.00	3.04E+02	5.07E+01
	8	295.26	292 -	297	3.07E+01	27.73	1.75E+02	3.01E+01
	9	313.50	310 -	317	2.30E+01	29.33	1.28E+02	2.28E+01
	10	338.77	335 -	342	3.73E+01	29.26	1.13E+02	2.19E+01
	11	352.17	348 -	357	1.51E+02	42.65	1.70E+02	2.87E+01
	12	510.83	506 -	516	1.21E+02	37.28	1.21E+02	2.48E+01
	13	571.82	567 -	577	2.71E+01	26.14	7.57E+01	1.97E+01
	14	583.34	578 -	589	9.17E+01	32.25	8.47E+01	2.13E+01
	15	609.66	606 -	613	1.01E+02	28.84	6.94E+01	1.70E+01
	16	646.77	644 -	649	1.07E+01	13.30	2.66E+01	9.52E+00
	17	673.61	671 -	676	1.40E+01	15.36	3.60E+01	1.10E+01
	18	756.86	755 -	760	1.49E+01	12.77	2.01E+01	8.35E+00
	19	804.29	801 -	810	1.80E+01	20.54	5.00E+01	1.54E+01
M	20	874.83	873 -	888	1.44E+01	9.94	5.91E+00	4.00E+00
m	21	879.93	873 -	888	8.73E+00	10.15	8.89E+00	4.90E+00
	22	899.91	896 -	904	1.75E+01	19.04	4.50E+01	1.41E+01
	23	911.16	905 -	916	4.40E+01	26.53	6.59E+01	1.89E+01
	24	934.37	930 -	938	2.35E+01	17.26	3.11E+01	1.17E+01
	25	968.69	965 -	972	2.02E+01	22.00	6.56E+01	1.65E+01
	26	1051.60	1046 -	1055	1.61E+01	16.55	2.99E+01	1.19E+01

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
27	1071.23	1064 -	1077	2.54E+01	23.13	4.51E+01	1.71E+01
28	1080.16	1078 -	1083	1.04E+01	10.20	1.32E+01	6.49E+00
29	1120.65	1117 -	1124	2.90E+01	17.55	3.20E+01	1.14E+01
30	1139.80	1137 -	1142	9.76E+00	10.63	1.45E+01	7.07E+00
31	1164.65	1162 -	1166	8.90E+00	11.67	2.22E+01	8.25E+00
32	1238.42	1235 -	1241	1.61E+01	19.08	5.19E+01	1.42E+01
33	1280.53	1278 -	1283	8.90E+00	10.25	1.22E+01	6.85E+00
34	1292.92	1290 -	1296	8.43E+00	9.63	1.11E+01	6.32E+00
35	1460.96	1455 -	1466	2.86E+02	37.84	3.55E+01	1.39E+01
36	1531.34	1529 -	1533	6.00E+00	4.90	0.00E+00	0.00E+00
37	1729.77	1726 -	1732	6.31E+00	6.65	3.38E+00	3.58E+00
38	1765.10	1761 -	1768	1.30E+01	8.72	4.07E+00	4.04E+00
39	2327.07	2322 -	2328	5.00E+00	4.47	0.00E+00	0.00E+00
40	2332.14	2330 -	2334	6.00E+00	4.90	0.00E+00	0.00E+00
41	2614.62	2610 -	2618	2.90E+01	10.77	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 9:19:20AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	74.78	71 -	81	75.12	1.39E+02	46.39	3.29E+02	AM-243
m	2	77.51	71 -	81	77.86	1.97E+02	52.69	3.14E+02	TI-44
m	3	87.80	82 -	98	88.13	9.17E+01	35.38	2.33E+02	SN-126
									CD-109
									LU-176
	4	185.99	183 -	189	186.30	1.05E+02	42.54	2.54E+02	RA-226
M	5	238.69	235 -	246	238.98	2.23E+02	39.53	1.55E+02	PB-212
m	6	241.87	235 -	246	242.15	4.66E+01	32.73	1.40E+02	RA-224
	7	276.14	268 -	287	276.42	1.37E+02	66.00	3.04E+02	.....
	8	295.26	292 -	297	295.53	3.07E+01	27.73	1.75E+02	PB-214

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	9	313.50	310 -	317	313.76	2.30E+01	29.33	1.28E+02	.....
	10	338.77	335 -	342	339.02	3.73E+01	29.26	1.13E+02	AC-228
	11	352.17	348 -	357	352.42	1.51E+02	42.65	1.70E+02	PB-214
	12	510.83	506 -	516	511.03	1.21E+02	37.28	1.21E+02	.....
	13	571.82	567 -	577	571.99	2.71E+01	26.14	7.57E+01	.....
	14	583.34	578 -	589	583.51	9.17E+01	32.25	8.47E+01	TL-208
	15	609.66	606 -	613	609.82	1.01E+02	28.84	6.94E+01	BI-214
	16	646.77	644 -	649	646.92	1.07E+01	13.30	2.66E+01	SB-124
	17	673.61	671 -	676	673.75	1.40E+01	15.36	3.60E+01	.....
	18	756.86	755 -	760	756.97	1.49E+01	12.77	2.01E+01	ZR-95
	19	804.29	801 -	810	804.38	1.80E+01	20.54	5.00E+01	.....
M	20	874.83	873 -	888	874.90	1.44E+01	9.94	5.91E+00	.....
m	21	879.93	873 -	888	880.00	8.73E+00	10.15	8.89E+00	.....
	22	899.91	896 -	904	899.97	1.75E+01	19.04	4.50E+01	.....
	23	911.16	905 -	916	911.21	4.40E+01	26.53	6.59E+01	AC-228 LU-172
	24	934.37	930 -	938	934.41	2.35E+01	17.26	3.11E+01	.....
	25	968.69	965 -	972	968.73	2.02E+01	22.00	6.56E+01	AC-228
	26	1051.60	1046 -	1055	1051.61	1.61E+01	16.55	2.99E+01	.....
	27	1071.23	1064 -	1077	1071.23	2.54E+01	23.13	4.51E+01	.....
	28	1080.16	1078 -	1083	1080.15	1.04E+01	10.20	1.32E+01	.....
	29	1120.65	1117 -	1124	1120.63	2.90E+01	17.55	3.20E+01	SC-46 BI-214 TA-182
	30	1139.80	1137 -	1142	1139.78	9.76E+00	10.63	1.45E+01	.....
	31	1164.65	1162 -	1166	1164.61	8.90E+00	11.67	2.22E+01	.....
	32	1238.42	1235 -	1241	1238.36	1.61E+01	19.08	5.19E+01	CO-56
	33	1280.53	1278 -	1283	1280.46	8.90E+00	10.25	1.22E+01	.....
	34	1292.92	1290 -	1296	1292.84	8.43E+00	9.63	1.11E+01	AR-41
	35	1460.96	1455 -	1466	1460.82	2.86E+02	37.84	3.55E+01	K-40
	36	1531.34	1529 -	1533	1531.17	6.00E+00	4.90	0.00E+00	.....
	37	1729.77	1726 -	1732	1729.52	6.31E+00	6.65	3.38E+00	.....
	38	1765.10	1761 -	1768	1764.84	1.30E+01	8.72	4.07E+00	BI-214
	39	2327.07	2322 -	2328	2326.60	5.00E+00	4.47	0.00E+00	.....
	40	2332.14	2330 -	2334	2331.67	6.00E+00	4.90	0.00E+00	.....
	41	2614.62	2610 -	2618	2614.03	2.90E+01	10.77	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 9:19:20AM

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	74.78	1.39E+02	46.39	2.75E-02	2.29E-03
m	2	77.51	1.97E+02	52.69	2.78E-02	2.39E-03
m	3	87.80	9.17E+01	35.38	2.85E-02	2.73E-03
	4	185.99	1.05E+02	42.54	2.24E-02	2.03E-03
M	5	238.69	2.23E+02	39.53	1.92E-02	1.64E-03
m	6	241.87	4.66E+01	32.73	1.91E-02	1.61E-03
	7	276.14	1.37E+02	66.00	1.75E-02	1.36E-03
	8	295.26	3.07E+01	27.73	1.67E-02	1.31E-03
	9	313.50	2.30E+01	29.33	1.60E-02	1.27E-03
	10	338.77	3.73E+01	29.26	1.52E-02	1.22E-03
	11	352.17	1.51E+02	42.65	1.48E-02	1.19E-03
	12	510.83	1.21E+02	37.28	1.12E-02	9.90E-04
	13	571.82	2.71E+01	26.14	1.03E-02	9.27E-04
	14	583.34	9.17E+01	32.25	1.02E-02	9.15E-04
	15	609.66	1.01E+02	28.84	9.82E-03	8.88E-04
	16	646.77	1.07E+01	13.30	9.38E-03	8.50E-04
	17	673.61	1.40E+01	15.36	9.09E-03	8.23E-04
	18	756.86	1.49E+01	12.77	8.29E-03	7.49E-04
	19	804.29	1.80E+01	20.54	7.90E-03	7.06E-04
M	20	874.83	1.44E+01	9.94	7.38E-03	6.43E-04
m	21	879.93	8.73E+00	10.15	7.35E-03	6.39E-04
	22	899.91	1.75E+01	19.04	7.22E-03	6.21E-04
	23	911.16	4.40E+01	26.53	7.15E-03	6.16E-04
	24	934.37	2.35E+01	17.26	7.01E-03	6.03E-04
	25	968.69	2.02E+01	22.00	6.81E-03	5.86E-04
	26	1051.60	1.61E+01	16.55	6.38E-03	5.42E-04
	27	1071.23	2.54E+01	23.13	6.28E-03	5.32E-04
	28	1080.16	1.04E+01	10.20	6.24E-03	5.28E-04
	29	1120.65	2.90E+01	17.55	6.06E-03	5.06E-04
	30	1139.80	9.76E+00	10.63	5.99E-03	4.97E-04
	31	1164.65	8.90E+00	11.67	5.89E-03	4.84E-04
	32	1238.42	1.61E+01	19.08	5.61E-03	4.68E-04
	33	1280.53	8.90E+00	10.25	5.47E-03	4.60E-04
	34	1292.92	8.43E+00	9.63	5.43E-03	4.58E-04
	35	1460.96	2.86E+02	37.84	4.97E-03	4.19E-04
	36	1531.34	6.00E+00	4.90	4.81E-03	4.02E-04
	37	1729.77	6.31E+00	6.65	4.45E-03	3.52E-04
	38	1765.10	1.30E+01	8.72	4.39E-03	3.43E-04
	39	2327.07	5.00E+00	4.47	3.88E-03	3.26E-04
	40	2332.14	6.00E+00	4.90	3.88E-03	3.26E-04
	41	2614.62	2.90E+01	10.77	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 9:19:20AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	74.78	1.39E+02	46.39			1.39E+02	4.64E+01
m	2	77.51	1.97E+02	52.69	1.60E+01	8.83E+00	1.81E+02	5.34E+01
m	3	87.80	9.17E+01	35.38			9.17E+01	3.54E+01
	4	185.99	1.05E+02	42.54	6.47E+01	7.53E+00	4.03E+01	4.32E+01
M	5	238.69	2.23E+02	39.53	1.73E+01	6.30E+00	2.06E+02	4.00E+01
m	6	241.87	4.66E+01	32.73			4.66E+01	3.27E+01
	7	276.14	1.37E+02	66.00			1.37E+02	6.60E+01
	8	295.26	3.07E+01	27.73	0.00E+00	0.00E+00	3.07E+01	2.77E+01
	9	313.50	2.30E+01	29.33			2.30E+01	2.93E+01
	10	338.77	3.73E+01	29.26			3.73E+01	2.93E+01
	11	352.17	1.51E+02	42.65	9.78E+00	4.40E+00	1.41E+02	4.29E+01
	12	510.83	1.21E+02	37.28	7.82E+01	5.46E+00	4.23E+01	3.77E+01
	13	571.82	2.71E+01	26.14			2.71E+01	2.61E+01
	14	583.34	9.17E+01	32.25	4.53E+00	3.34E+00	8.71E+01	3.24E+01
	15	609.66	1.01E+02	28.84	8.81E+00	3.15E+00	9.25E+01	2.90E+01
	16	646.77	1.07E+01	13.30			1.07E+01	1.33E+01
	17	673.61	1.40E+01	15.36			1.40E+01	1.54E+01
	18	756.86	1.49E+01	12.77			1.49E+01	1.28E+01
	19	804.29	1.80E+01	20.54			1.80E+01	2.05E+01
M	20	874.83	1.44E+01	9.94			1.44E+01	9.94E+00
m	21	879.93	8.73E+00	10.15			8.73E+00	1.01E+01
	22	899.91	1.75E+01	19.04			1.75E+01	1.90E+01
	23	911.16	4.40E+01	26.53	4.29E+00	2.56E+00	3.97E+01	2.67E+01
	24	934.37	2.35E+01	17.26			2.35E+01	1.73E+01
	25	968.69	2.02E+01	22.00			2.02E+01	2.20E+01
	26	1051.60	1.61E+01	16.55			1.61E+01	1.66E+01
	27	1071.23	2.54E+01	23.13			2.54E+01	2.31E+01
	28	1080.16	1.04E+01	10.20			1.04E+01	1.02E+01
	29	1120.65	2.90E+01	17.55			2.90E+01	1.75E+01
	30	1139.80	9.76E+00	10.63			9.76E+00	1.06E+01
	31	1164.65	8.90E+00	11.67			8.90E+00	1.17E+01
	32	1238.42	1.61E+01	19.08			1.61E+01	1.91E+01
	33	1280.53	8.90E+00	10.25			8.90E+00	1.02E+01
	34	1292.92	8.43E+00	9.63			8.43E+00	9.63E+00
	35	1460.96	2.86E+02	37.84	5.85E+00	2.19E+00	2.80E+02	3.79E+01
	36	1531.34	6.00E+00	4.90			6.00E+00	4.90E+00
	37	1729.77	6.31E+00	6.65			6.31E+00	6.65E+00
	38	1765.10	1.30E+01	8.72			1.30E+01	8.72E+00
	39	2327.07	5.00E+00	4.47			5.00E+00	4.47E+00
	40	2332.14	6.00E+00	4.90			6.00E+00	4.90E+00
	41	2614.62	2.90E+01	10.77	5.15E+00	1.50E+00	2.39E+01	1.09E+01

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 9:19:20AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	74.78	1.39E+02	46.39			1.39E+02	4.64E+01
m	2	77.51	1.97E+02	52.69	1.60E+01	8.83E+00	1.81E+02	5.34E+01
m	3	87.80	9.17E+01	35.38			9.17E+01	3.54E+01
	4	185.99	1.05E+02	42.54	6.47E+01	7.53E+00	4.03E+01	4.32E+01
M	5	238.69	2.23E+02	39.53	1.73E+01	6.30E+00	2.06E+02	4.00E+01
m	6	241.87	4.66E+01	32.73			4.66E+01	3.27E+01
	7	276.14	1.37E+02	66.00			1.37E+02	6.60E+01
	8	295.26	3.07E+01	27.73	0.00E+00	0.00E+00	3.07E+01	2.77E+01
	9	313.50	2.30E+01	29.33			2.30E+01	2.93E+01
	10	338.77	3.73E+01	29.26			3.73E+01	2.93E+01
	11	352.17	1.51E+02	42.65	9.78E+00	4.40E+00	1.41E+02	4.29E+01
	12	510.83	1.21E+02	37.28	7.82E+01	5.46E+00	4.23E+01	3.77E+01
	13	571.82	2.71E+01	26.14			2.71E+01	2.61E+01
	14	583.34	9.17E+01	32.25	4.53E+00	3.34E+00	8.71E+01	3.24E+01
	15	609.66	1.01E+02	28.84	8.81E+00	3.15E+00	9.25E+01	2.90E+01
	16	646.77	1.07E+01	13.30			1.07E+01	1.33E+01
	17	673.61	1.40E+01	15.36			1.40E+01	1.54E+01
	18	756.86	1.49E+01	12.77			1.49E+01	1.28E+01
	19	804.29	1.80E+01	20.54			1.80E+01	2.05E+01
M	20	874.83	1.44E+01	9.94			1.44E+01	9.94E+00
m	21	879.93	8.73E+00	10.15			8.73E+00	1.01E+01
	22	899.91	1.75E+01	19.04			1.75E+01	1.90E+01
	23	911.16	4.40E+01	26.53	4.29E+00	2.56E+00	3.97E+01	2.67E+01
	24	934.37	2.35E+01	17.26			2.35E+01	1.73E+01
	25	968.69	2.02E+01	22.00			2.02E+01	2.20E+01
	26	1051.60	1.61E+01	16.55			1.61E+01	1.66E+01
	27	1071.23	2.54E+01	23.13			2.54E+01	2.31E+01
	28	1080.16	1.04E+01	10.20			1.04E+01	1.02E+01
	29	1120.65	2.90E+01	17.55			2.90E+01	1.75E+01
	30	1139.80	9.76E+00	10.63			9.76E+00	1.06E+01
	31	1164.65	8.90E+00	11.67			8.90E+00	1.17E+01
	32	1238.42	1.61E+01	19.08			1.61E+01	1.91E+01

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
33	1280.53	8.90E+00	10.25			8.90E+00	1.02E+01
34	1292.92	8.43E+00	9.63			8.43E+00	9.63E+00
35	1460.96	2.86E+02	37.84	5.85E+00	2.19E+00	2.80E+02	3.79E+01
36	1531.34	6.00E+00	4.90			6.00E+00	4.90E+00
37	1729.77	6.31E+00	6.65			6.31E+00	6.65E+00
38	1765.10	1.30E+01	8.72			1.30E+01	8.72E+00
39	2327.07	5.00E+00	4.47			5.00E+00	4.47E+00
40	2332.14	6.00E+00	4.90			6.00E+00	4.90E+00
41	2614.62	2.90E+01	10.77	5.15E+00	1.50E+00	2.39E+01	1.09E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.996	1460.81	*	10.67	1.25E+01	2.01E+00
CD-109	0.991	88.03	*	3.72	2.14E+00	8.60E-01
SN-126	0.992	87.57	*	37.00	2.05E-01	8.17E-02
TL-208	0.887	583.14	*	30.22	6.70E-01	2.56E-01
		860.37		4.48		
		2614.66	*	35.85	4.14E-01	1.92E-01
PB-212	0.894	238.63	*	44.60	5.66E-01	1.20E-01
		300.09		3.41		
BI-214	0.904	609.31	*	46.30	4.80E-01	1.57E-01
		1120.29	*	15.10	7.48E-01	4.57E-01
		1764.49	*	15.80	4.41E-01	2.98E-01
		2204.22		4.98		
PB-214	0.993	295.21	*	19.19	2.27E-01	2.05E-01
		351.92	*	37.19	6.07E-01	1.91E-01
RA-224	0.882	240.98	*	3.95	1.46E+00	1.03E+00
RA-226	0.992	186.21	*	3.28	1.30E+00	2.75E+00
AC-228	0.985	338.32	*	11.40	5.09E-01	4.02E-01
		911.07	*	27.70	4.74E-01	3.21E-01
		969.11	*	16.60	4.22E-01	4.61E-01
AM-243	0.998	74.67	*	66.00	1.81E-01	6.23E-02

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 9:19:20AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	2	77.51	5.03059E-02	14.75	Tol.	TI-44
	7	276.14	3.79960E-02	24.13		
	9	313.50	6.38889E-03	63.75	Sum	
	12	510.83	1.17590E-02	44.50		
	13	571.82	7.53846E-03	48.17		
	16	646.77	2.97454E-03	62.12	Sum	
	17	673.61	3.88889E-03	54.87		
	18	756.86	4.15000E-03	42.73		
	19	804.29	5.00000E-03	57.06		
M	20	874.83	4.00499E-03	34.46		
m	21	879.93	2.42484E-03	58.13		
	22	899.91	4.86111E-03	54.40		
	24	934.37	6.51709E-03	36.77		
	26	1051.60	4.46237E-03	51.52		
	27	1071.23	7.06308E-03	45.48		
	28	1080.16	2.89216E-03	48.97		
	30	1139.80	2.71242E-03	54.43		
	31	1164.65	2.47222E-03	65.58		
	32	1238.42	4.46429E-03	59.36	Tol.	CO-56
	33	1280.53	2.47222E-03	57.57		
	34	1292.92	2.34127E-03	57.13		
	36	1531.34	1.66667E-03	40.82		
	37	1729.77	1.75347E-03	52.69	Sum	
	39	2327.07	1.38889E-03	44.72		
	40	2332.14	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.25E+01	2.01E+00
CD-109	0.99	88.03	*	3.72	2.14E+00	8.60E-01
SN-126	0.99	87.57	*	37.00	2.05E-01	8.17E-02
TL-208	0.88	583.14	*	30.22	6.70E-01	2.56E-01
		860.37		4.48		
		2614.66	*	35.85	4.14E-01	1.92E-01
PB-212	0.89	238.63	*	44.60	5.66E-01	1.20E-01
		300.09		3.41		
BI-214	0.90	609.31	*	46.30	4.80E-01	1.57E-01
		1120.29	*	15.10	7.48E-01	4.57E-01
		1764.49	*	15.80	4.41E-01	2.98E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	2.27E-01	2.05E-01
		351.92	*	37.19	6.07E-01	1.91E-01
RA-224	0.88	240.98	*	3.95	1.46E+00	1.03E+00
RA-226	0.99	186.21	*	3.28	1.30E+00	2.75E+00
AC-228	0.98	338.32	*	11.40	5.09E-01	4.02E-01
		911.07	*	27.70	4.74E-01	3.21E-01
		969.11	*	16.60	4.22E-01	4.61E-01
AM-243	0.99	74.67	*	66.00	1.81E-01	6.23E-02

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.996	1.25E+01	2.01E+00	
?	CD-109	0.991	2.14E+00	8.60E-01	
?	SN-126	0.992	2.05E-01	8.17E-02	
	TL-208	0.887	5.06E-01	1.54E-01	
	PB-212	0.894	5.66E-01	1.20E-01	
	BI-214	0.904	4.95E-01	1.33E-01	
	PB-214	0.993	4.31E-01	1.40E-01	
	RA-224	0.882	1.46E+00	1.03E+00	
	RA-226	0.992	1.30E+00	2.75E+00	
	AC-228	0.985	4.73E-01	2.20E-01	
	AM-243	0.998	1.81E-01	6.23E-02	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 9:19:20AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	2	77.51	5.03059E-02	14.75	Tol.	TI-44
	7	276.14	3.79960E-02	24.13		
	9	313.50	6.38889E-03	63.75	Sum	
	12	510.83	1.17590E-02	44.50		
	13	571.82	7.53846E-03	48.17		
	16	646.77	2.97454E-03	62.12	Sum	
	17	673.61	3.88889E-03	54.87		
	18	756.86	4.15000E-03	42.73		
	19	804.29	5.00000E-03	57.06		
M	20	874.83	4.00499E-03	34.46		
m	21	879.93	2.42484E-03	58.13		
	22	899.91	4.86111E-03	54.40		
	24	934.37	6.51709E-03	36.77		
	26	1051.60	4.46237E-03	51.52		
	27	1071.23	7.06308E-03	45.48		
	28	1080.16	2.89216E-03	48.97		
	30	1139.80	2.71242E-03	54.43		
	31	1164.65	2.47222E-03	65.58		
	32	1238.42	4.46429E-03	59.36	Tol.	CO-56
	33	1280.53	2.47222E-03	57.57		
	34	1292.92	2.34127E-03	57.13		
	36	1531.34	1.66667E-03	40.82		
	37	1729.77	1.75347E-03	52.69	Sum	
	39	2327.07	1.38889E-03	44.72		
	40	2332.14	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	6.96E-01	1.08E+00	1.08E+00
+	NA-22	1274.54		99.94	-3.96E-02	8.28E-02	8.28E-02
+	NA-24	1368.53		99.99	-2.76E+13	5.11E+13	5.11E+13
		2754.09		99.86	-9.77E+12		5.44E+13
+	AL-26	1808.65		99.76	6.15E-03	8.67E-02	8.67E-02
+	K-40	1460.81	*	10.67	1.25E+01	1.42E+00	1.42E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.26E-02	6.51E-02	6.51E-02
		78.34		96.00	1.22E-01		8.00E-02
+	SC-46	889.25		99.98	-1.64E-02	1.01E-01	1.01E-01
		1120.51		99.99	1.37E-01		1.67E-01
+	V-48	983.52		99.98	1.55E-01	2.76E-01	3.25E-01
		1312.10		97.50	-4.34E-02		2.76E-01
+	CR-51	320.08		9.83	1.13E-01	1.21E+00	1.21E+00
+	MN-54	834.83		99.97	6.71E-03	9.58E-02	9.58E-02
+	CO-56	846.75		99.96	-4.33E-03	1.10E-01	1.10E-01
		1037.75		14.03	4.43E-01		9.83E-01
		1238.25		67.00	1.44E-01		2.71E-01
		1771.40		15.51	-2.43E-01		4.91E-01
		2598.48		16.90	0.00E+00		5.21E-01
+	CO-57	122.06		85.51	4.61E-03	5.85E-02	5.85E-02
		136.48		10.60	1.51E-01		4.81E-01
+	CO-58	810.76		99.40	-1.92E-03	1.03E-01	1.03E-01
+	FE-59	1099.22		56.50	1.61E-01	2.75E-01	2.75E-01
		1291.56		43.20	3.26E-02		3.57E-01
+	CO-60	1173.22		100.00	1.46E-02	8.46E-02	1.00E-01
		1332.49		100.00	-1.69E-03		8.46E-02
+	ZN-65	1115.52		50.75	-4.64E-03	1.87E-01	1.87E-01
+	GA-67	93.31		35.70	3.11E+02	1.55E+02	1.55E+02
		208.95		2.24	4.84E+02		1.74E+03
		300.22		16.00	-1.89E+02		2.61E+02
+	SE-75	121.11		16.70	3.46E-02	9.31E-02	3.23E-01
		136.00		59.20	-5.51E-02		9.31E-02
		264.65		59.80	4.63E-02		1.15E-01
		279.53		25.20	5.54E-02		2.80E-01
		400.65		11.40	7.83E-03		5.92E-01
+	RB-82	776.52		13.00	5.72E-01	1.35E+00	1.35E+00
+	RB-83	520.41		46.00	4.53E-02	2.00E-01	2.00E-01
		529.64		30.30	1.09E-01		3.23E-01
		552.65		16.40	-2.15E-01		5.67E-01
+	KR-85	513.99		0.43	2.88E+01	2.74E+01	2.74E+01
+	SR-85	513.99		99.27	1.75E-01	1.66E-01	1.66E-01

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	Y-88	898.02		93.40	1.07E-02	7.29E-02	1.22E-01
		1836.01		99.38	-3.38E-02		7.29E-02
+	NB-93M	16.57		9.43	-5.26E+01	8.98E+01	8.98E+01
+	NB-94	702.63		100.00	1.07E-02	8.42E-02	8.53E-02
		871.10		100.00	1.34E-02		8.42E-02
+	NB-95	765.79		99.81	-3.47E-02	1.50E-01	1.50E-01
+	NB-95M	235.69		25.00	-3.80E+02	9.82E+01	9.82E+01
+	ZR-95	724.18		43.70	-9.64E-02	1.91E-01	2.45E-01
		756.72		55.30	-2.16E-02		1.91E-01
+	MO-99	181.06		6.20	3.04E+02	1.46E+03	2.08E+03
		739.58		12.80	2.84E+02		1.46E+03
		778.00		4.50	-1.64E+03		3.92E+03
+	RU-103	497.08		89.00	3.68E-02	1.34E-01	1.34E-01
+	RU-106	621.84		9.80	-1.94E-01	7.45E-01	7.45E-01
+	AG-108M	433.93		89.90	-1.91E-02	6.95E-02	6.95E-02
		614.37		90.40	-2.39E-02		7.55E-02
		722.95		90.50	-1.32E-01		6.98E-02
+	CD-109	88.03	*	3.72	2.14E+00	3.64E+00	3.64E+00
+	AG-110M	657.75		93.14	3.51E-03	8.91E-02	8.91E-02
		677.61		10.53	9.34E-02		7.62E-01
		706.67		16.46	2.87E-01		5.87E-01
		763.93		21.98	-3.01E-02		3.76E-01
		884.67		71.63	2.46E-02		1.30E-01
		1384.27		23.94	1.13E-01		3.92E-01
+	CD-113M	263.70		0.02	1.09E+02	2.46E+02	2.46E+02
+	SN-113	255.12		1.93	4.33E-01	1.14E-01	3.34E+00
		391.69		64.90	4.72E-02		1.14E-01
+	TE123M	159.00		84.10	-2.51E-02	6.92E-02	6.92E-02
+	SB-124	602.71		97.87	2.39E-03	1.18E-01	1.18E-01
		645.85		7.26	5.50E-01		1.33E+00
		722.78		11.10	-1.54E+00		8.14E-01
		1691.02		49.00	-3.06E-02		1.65E-01
+	I-125	35.49		6.49	-1.65E+00	3.30E+00	3.30E+00
+	SB-125	176.33		6.89	-2.54E-01	2.45E-01	7.71E-01
		427.89		29.33	8.31E-02		2.45E-01
		463.38		10.35	6.37E-01		8.18E-01
		600.56		17.80	1.75E-02		4.81E-01
		635.90		11.32	-1.09E-01		6.60E-01
+	SB-126	414.70		83.30	1.46E-01	4.15E-01	4.68E-01
		666.33		99.60	6.13E-03		4.15E-01
		695.00		99.60	3.80E-01		5.21E-01
		720.50		53.80	8.68E-03		7.52E-01
+	SN-126	87.57	*	37.00	2.05E-01	3.50E-01	3.50E-01
+	SB-127	473.00		25.00	-2.01E+01	5.52E+01	7.10E+01
		685.20		35.70	6.03E+00		5.52E+01
		783.80		14.70	3.54E+01		1.42E+02
+	I-129	29.78		57.00	-3.00E-01	5.30E-01	5.30E-01
		33.60		13.20	8.98E-01		1.45E+00

00505

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	I-129	39.58	7.52	5.33E-02	5.30E-01	1.56E+00
+	I-131	284.30	6.05	1.30E+00	9.35E-01	1.17E+01
		364.48	81.20	8.87E-02		9.35E-01
		636.97	7.26	2.52E+00		1.49E+01
		722.89	1.80	-9.67E+01		5.12E+01
+	TE-132	49.72	13.10	-8.00E+02	4.45E+01	4.43E+02
		228.16	88.00	2.55E+00		4.45E+01
+	BA-133	81.00	33.00	-5.29E-01	9.35E-02	1.62E-01
		302.84	17.80	-7.15E-03		3.20E-01
		356.01	60.00	-2.77E-01		9.35E-02
+	I-133	529.87	86.30	1.86E+09	5.53E+09	5.53E+09
+	XE-133	81.00	38.00	-2.79E+01	8.53E+00	8.53E+00
+	CS-134	563.23	8.38	4.45E-02	8.97E-02	8.82E-01
		569.32	15.43	1.56E-01		5.16E-01
		604.70	97.60	1.32E-02		8.97E-02
		795.84	85.40	4.61E-02		1.08E-01
		801.93	8.73	5.05E-02		1.06E+00
+	CS-135	268.24	16.00	2.47E-02	3.84E-01	3.84E-01
+	@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41	28.60	1.00E+26		1.00E+26
	@	1678.03	9.54	1.00E+26		1.00E+26
+	CS-136	153.22	7.46	1.81E+00	4.13E-01	3.57E+00
		163.89	4.61	1.59E+00		5.80E+00
		176.55	13.56	-6.50E-01		1.97E+00
		273.65	12.66	-2.28E+00		2.26E+00
		340.57	48.50	1.18E-01		6.11E-01
		818.50	99.70	-3.97E-02		4.13E-01
		1048.07	79.60	-2.30E-01		5.61E-01
		1235.34	19.70	9.13E-02		3.48E+00
+	CS-137	661.65	85.12	-2.51E-04	8.50E-02	8.50E-02
+	LA-138	788.74	34.00	-2.93E-02	1.00E-01	2.29E-01
		1435.80	66.00	2.79E-02		1.00E-01
+	CE-139	165.85	80.35	4.67E-03	7.46E-02	7.46E-02
+	BA-140	162.64	6.70	2.52E+00	1.44E+00	4.23E+00
		304.84	4.50	-3.41E-01		6.72E+00
		423.70	3.20	9.62E-01		1.09E+01
		437.55	2.00	-1.53E+00		1.71E+01
		537.32	25.00	-4.47E-01		1.44E+00
+	LA-140	328.77	20.50	1.00E+00	4.52E-01	1.54E+00
		487.03	45.50	7.20E-02		7.89E-01
		815.85	23.50	7.17E-01		1.96E+00
		1596.49	95.49	-1.07E-01		4.52E-01
+	CE-141	145.44	48.40	1.23E-01	2.02E-01	2.02E-01
+	CE-143	57.36	11.80	-7.22E+05	1.11E+06	3.59E+06
		293.26	42.00	1.41E+06		1.11E+06
		664.55	5.20	9.77E+05		9.30E+06
+	CE-144	133.54	10.80	6.91E-02	5.06E-01	5.06E-01
+	PM-144	476.78	42.00	5.29E-02	6.91E-02	1.83E-01
		618.01	98.60	1.31E-02		6.91E-02

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	696.49	99.49	-2.85E-03	6.91E-02	9.25E-02
+	PM-145	36.85	21.70	-4.51E-01	3.37E-01	6.26E-01
		37.36	39.70	-2.29E-02		3.37E-01
		42.30	15.10	-1.50E-01		6.53E-01
		72.40	2.31	-1.94E+00		3.02E+00
+	PM-146	453.90	39.94	1.77E-02	1.75E-01	1.75E-01
		735.90	14.01	4.61E-02		5.58E-01
		747.13	13.10	-3.05E-01		5.00E-01
+	ND-147	91.11	28.90	-2.27E+00	1.81E+00	1.81E+00
		531.02	13.10	-3.13E-02		3.98E+00
+	PM-149	285.90	3.10	-3.04E+03	2.61E+04	2.61E+04
+	EU-152	121.78	20.50	1.78E-02	2.26E-01	2.26E-01
		244.69	5.40	-6.63E-01		1.04E+00
		344.27	19.13	-6.87E-02		2.59E-01
		778.89	9.20	-5.02E-01		7.65E-01
		964.01	10.40	-1.47E-02		9.41E-01
		1085.78	7.22	6.22E-02		1.19E+00
		1112.02	9.60	-9.11E-02		9.52E-01
		1407.95	14.94	1.31E-01		5.42E-01
+	GD-153	97.43	31.30	2.89E-02	1.65E-01	1.65E-01
		103.18	22.20	4.06E-02		2.43E-01
+	EU-154	123.07	40.50	2.77E-02	1.16E-01	1.16E-01
		723.30	19.70	-6.10E-01		3.23E-01
		873.19	11.50	-1.12E-02		7.51E-01
		996.32	10.30	-4.74E-01		7.19E-01
		1004.76	17.90	-1.74E-01		4.51E-01
		1274.45	35.50	-1.10E-01		2.30E-01
+	EU-155	86.50	30.90	8.72E-02	2.07E-01	2.07E-01
		105.30	20.70	-6.39E-02		2.49E-01
+	EU-156	811.77	10.40	1.13E-01	2.99E+00	2.99E+00
		1153.47	7.20	5.71E-01		5.37E+00
		1230.71	8.90	-1.43E+00		4.86E+00
+	HO-166M	184.41	72.60	1.72E-01	9.71E-02	9.71E-02
		280.45	29.60	-2.41E-02		1.84E-01
		410.94	11.10	1.98E-02		5.84E-01
		711.69	54.10	-2.51E-02		1.41E-01
+	TM-171	66.72	0.14	-9.98E+01	4.67E+01	4.67E+01
+	HF-172	81.75	4.52	-1.45E+00	4.17E-01	1.19E+00
		125.81	11.30	-4.68E-02		4.17E-01
+	LU-172	181.53	20.60	2.75E-01	3.42E+00	6.08E+00
		810.06	16.63	-1.20E+00		1.08E+01
		912.12	15.25	1.71E+01		2.06E+01
		1093.66	62.50	7.62E-02		3.42E+00
+	LU-173	100.72	5.24	1.97E-01	3.17E-01	9.33E-01
		272.11	21.20	2.25E-01		3.17E-01
+	HF-175	343.40	84.00	-3.26E-02	7.49E-02	7.49E-02
+	LU-176	88.34	13.30	4.56E-01	5.94E-02	4.89E-01
		201.83	86.00	1.29E-02		6.68E-02
		306.78	94.00	8.74E-03		5.94E-02

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Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TA-182	67.75		41.20	3.49E-02	1.80E-01	1.80E-01
		1121.30		34.90	3.18E-01		4.52E-01
		1189.05		16.23	6.66E-02		6.81E-01
		1221.41		26.98	2.51E-02		4.38E-01
		1231.02		11.44	-3.25E-01		1.11E+00
+	IR-192	308.46		29.68	2.77E-02	1.98E-01	2.43E-01
		468.07		48.10	-4.47E-02		1.98E-01
+	HG-203	279.19		77.30	8.83E-02	1.28E-01	1.28E-01
+	BI-207	569.67		97.72	2.81E-02	8.09E-02	8.09E-02
		1063.62		74.90	7.50E-03		1.09E-01
+	TL-208	583.14	*	30.22	6.70E-01	1.83E-01	3.56E-01
		860.37		4.48	-8.22E-02		1.58E+00
		2614.66	*	35.85	4.14E-01		1.83E-01
+	BI-210M	262.00		45.00	-5.27E-02	1.15E-01	1.15E-01
		300.00		23.00	-1.78E-01		2.45E-01
+	PB-210	46.50		4.25	2.27E+00	2.31E+00	2.31E+00
+	PB-211	404.84		2.90	-4.95E-01	1.77E+00	1.77E+00
		831.96		2.90	-1.09E+00		2.89E+00
+	BI-212	727.17		11.80	4.10E-01	7.85E-01	7.85E-01
		1620.62		2.75	7.26E-01		2.61E+00
+	PB-212	238.63	*	44.60	5.66E-01	2.38E-01	2.38E-01
		300.09		3.41	-1.20E+00		1.65E+00
+	BI-214	609.31	*	46.30	4.80E-01	2.00E-01	2.00E-01
		1120.29	*	15.10	7.48E-01		6.58E-01
		1764.49	*	15.80	4.41E-01		3.67E-01
		2204.22		4.98	1.72E-02		1.80E+00
+	PB-214	295.21	*	19.19	2.27E-01	2.64E-01	4.64E-01
		351.92	*	37.19	6.07E-01		2.64E-01
+	RN-219	401.80		6.50	3.39E-01	8.99E-01	8.99E-01
+	RA-223	323.87		3.88	-3.53E-01	1.38E+00	1.38E+00
+	RA-224	240.98	*	3.95	1.46E+00	2.63E+00	2.63E+00
+	RA-225	40.00		31.00	5.40E-02	1.58E+00	1.58E+00
+	RA-226	186.21	*	3.28	1.30E+00	2.27E+00	2.27E+00
+	TH-227	50.10		8.40	-1.66E+00	5.46E-01	9.17E-01
		236.00		11.50	-2.12E+00		5.46E-01
		256.20		6.30	-2.61E-01		8.04E-01
+	AC-228	338.32	*	11.40	5.09E-01	4.93E-01	6.34E-01
		911.07	*	27.70	4.74E-01		4.93E-01
		969.11	*	16.60	4.22E-01		7.47E-01
+	TH-230	48.44		16.90	4.86E-01	5.54E-01	5.54E-01
		62.85		4.60	2.89E+00		1.75E+00
		67.67		0.37	3.22E+00		1.66E+01
+	PA-231	283.67		1.60	1.21E+00	2.46E+00	3.20E+00
		302.67		2.30	-5.50E-02		2.46E+00
+	TH-231	25.64		14.70	-3.93E+00	8.92E-01	6.09E+00
		84.21		6.40	-1.21E+00		8.92E-01
+	PA-233	311.98		38.60	-8.65E-02	3.12E-01	3.12E-01
+	PA-234	131.20		20.40	8.69E-03	2.47E-01	2.47E-01

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	733.99		8.80	4.11E-01	2.47E-01	9.43E-01
		946.00		12.00	-2.44E-01		6.21E-01
+	PA-234M	1001.03		0.92	-8.62E-01	9.50E+00	9.50E+00
+	TH-234	63.29		3.80	3.07E+00	2.10E+00	2.10E+00
+	U-235	143.76		10.50	1.23E-01	4.55E-01	4.55E-01
		163.35		4.70	3.03E-01		1.10E+00
		205.31		4.70	-1.43E-01		1.14E+00
+	NP-237	86.50		12.60	2.11E-01	5.02E-01	5.02E-01
+	NP-239	106.10		22.70	-5.43E+02	2.11E+03	2.11E+03
		228.18		10.70	2.65E+02		4.63E+03
		277.60		14.10	2.38E+03		4.15E+03
+	AM-241	59.54		35.90	-1.97E-01	1.84E-01	1.84E-01
+	AM-243	74.67	*	66.00	1.81E-01	1.48E-01	1.48E-01
+	CM-243	209.75		3.29	-2.40E-01	4.46E-01	1.48E+00
		228.14		10.60	2.85E-02		4.97E-01
		277.60		14.00	2.56E-01		4.46E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.08E+00	1.08E+00	6.96E-01	4.99E-01
	NA-22	1274.54		99.94	8.28E-02	8.28E-02	-3.96E-02	3.55E-02
	NA-24	1368.53		99.99	5.11E+13	5.11E+13	-2.76E+13	1.98E+13
		2754.09		99.86	5.44E+13		-9.77E+12	1.93E+13
	AL-26	1808.65		99.76	8.67E-02	8.67E-02	6.15E-03	3.59E-02
+	K-40	1460.81	*	10.67	1.42E+00	1.42E+00	1.25E+01	6.50E-01

00509

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@ AR-41	1293.64	99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
TI-44	67.88	94.40	6.51E-02	6.51E-02	1.26E-02	3.12E-02
	78.34	96.00	8.00E-02		1.22E-01	3.88E-02
SC-46	889.25	99.98	1.01E-01	1.01E-01	-1.64E-02	4.47E-02
	1120.51	99.99	1.67E-01		1.37E-01	7.68E-02
V-48	983.52	99.98	3.25E-01	2.76E-01	1.55E-01	1.44E-01
	1312.10	97.50	2.76E-01		-4.34E-02	1.14E-01
CR-51	320.08	9.83	1.21E+00	1.21E+00	1.13E-01	5.61E-01
MN-54	834.83	99.97	9.58E-02	9.58E-02	6.71E-03	4.34E-02
CO-56	846.75	99.96	1.10E-01	1.10E-01	-4.33E-03	4.95E-02
	1037.75	14.03	9.83E-01		4.43E-01	4.45E-01
	1238.25	67.00	2.71E-01		1.44E-01	1.24E-01
	1771.40	15.51	4.91E-01		-2.43E-01	1.84E-01
	2598.48	16.90	5.21E-01		0.00E+00	1.95E-01
CO-57	122.06	85.51	5.85E-02	5.85E-02	4.61E-03	2.77E-02
	136.48	10.60	4.81E-01		1.51E-01	2.28E-01
CO-58	810.76	99.40	1.03E-01	1.03E-01	-1.92E-03	4.58E-02
FE-59	1099.22	56.50	2.75E-01	2.75E-01	1.61E-01	1.23E-01
	1291.56	43.20	3.57E-01		3.26E-02	1.56E-01
CO-60	1173.22	100.00	1.00E-01	8.46E-02	1.46E-02	4.45E-02
	1332.49	100.00	8.46E-02		-1.69E-03	3.62E-02
ZN-65	1115.52	50.75	1.87E-01	1.87E-01	-4.64E-03	8.24E-02
GA-67	93.31	35.70	1.55E+02	1.55E+02	3.11E+02	7.53E+01
	208.95	2.24	1.74E+03		4.84E+02	8.20E+02
	300.22	16.00	2.61E+02		-1.89E+02	1.21E+02
SE-75	121.11	16.70	3.23E-01	9.31E-02	3.46E-02	1.53E-01
	136.00	59.20	9.31E-02		-5.51E-02	4.41E-02
	264.65	59.80	1.15E-01		4.63E-02	5.41E-02
	279.53	25.20	2.80E-01		5.54E-02	1.31E-01
	400.65	11.40	5.92E-01		7.83E-03	2.71E-01
RB-82	776.52	13.00	1.35E+00	1.35E+00	5.72E-01	6.05E-01
RB-83	520.41	46.00	2.00E-01	2.00E-01	4.53E-02	9.17E-02
	529.64	30.30	3.23E-01		1.09E-01	1.49E-01
	552.65	16.40	5.67E-01		-2.15E-01	2.60E-01
KR-85	513.99	0.43	2.74E+01	2.74E+01	2.88E+01	1.30E+01
SR-85	513.99	99.27	1.66E-01	1.66E-01	1.75E-01	7.89E-02
Y-88	898.02	93.40	1.22E-01	7.29E-02	1.07E-02	5.54E-02
	1836.01	99.38	7.29E-02		-3.38E-02	2.73E-02
NB-93M	16.57	9.43	8.98E+01	8.98E+01	-5.26E+01	4.07E+01
NB-94	702.63	100.00	8.53E-02	8.42E-02	1.07E-02	3.90E-02
	871.10	100.00	8.42E-02		1.34E-02	3.78E-02
NB-95	765.79	99.81	1.50E-01	1.50E-01	-3.47E-02	6.79E-02
NB-95M	235.69	25.00	9.82E+01	9.82E+01	-3.80E+02	4.65E+01
ZR-95	724.18	43.70	2.45E-01	1.91E-01	-9.64E-02	1.10E-01
	756.72	55.30	1.91E-01		-2.16E-02	8.56E-02
MO-99	181.06	6.20	2.08E+03	1.46E+03	3.04E+02	9.83E+02
	739.58	12.80	1.46E+03		2.84E+02	6.54E+02
	778.00	4.50	3.92E+03		-1.64E+03	1.74E+03
RU-103	497.08	89.00	1.34E-01	1.34E-01	3.68E-02	6.17E-02
RU-106	621.84	9.80	7.45E-01	7.45E-01	-1.94E-01	3.37E-01
AG-108M	433.93	89.90	6.95E-02	6.95E-02	-1.91E-02	3.19E-02
	614.37	90.40	7.55E-02		-2.39E-02	3.41E-02
	722.95	90.50	6.98E-02		-1.32E-01	3.08E-02

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	CD-109	88.03	*	3.72	3.64E+00	3.64E+00	2.14E+00	1.79E+00
	AG-110M	657.75		93.14	8.91E-02	8.91E-02	3.51E-03	4.05E-02
		677.61		10.53	7.62E-01		9.34E-02	3.44E-01
		706.67		16.46	5.87E-01		2.87E-01	2.69E-01
		763.93		21.98	3.76E-01		-3.01E-02	1.69E-01
		884.67		71.63	1.30E-01		2.46E-02	5.82E-02
		1384.27		23.94	3.92E-01		1.13E-01	1.68E-01
	CD-113M	263.70		0.02	2.46E+02	2.46E+02	1.09E+02	1.15E+02
	SN-113	255.12		1.93	3.34E+00	1.14E-01	4.33E-01	1.56E+00
		391.69		64.90	1.14E-01		4.72E-02	5.28E-02
	TE123M	159.00		84.10	6.92E-02	6.92E-02	-2.51E-02	3.27E-02
	SB-124	602.71		97.87	1.18E-01	1.18E-01	2.39E-03	5.44E-02
		645.85		7.26	1.33E+00		5.50E-01	5.99E-01
		722.78		11.10	8.14E-01		-1.54E+00	3.59E-01
		1691.02		49.00	1.65E-01		-3.06E-02	6.16E-02
	I-125	35.49		6.49	3.30E+00	3.30E+00	-1.65E+00	1.57E+00
	SB-125	176.33		6.89	7.71E-01	2.45E-01	-2.54E-01	3.65E-01
		427.89		29.33	2.45E-01		8.31E-02	1.14E-01
		463.38		10.35	8.18E-01		6.37E-01	3.83E-01
		600.56		17.80	4.81E-01		1.75E-02	2.22E-01
		635.90		11.32	6.60E-01		-1.09E-01	3.00E-01
	SB-126	414.70		83.30	4.68E-01	4.15E-01	1.46E-01	2.18E-01
		666.33		99.60	4.15E-01		6.13E-03	1.87E-01
		695.00		99.60	5.21E-01		3.80E-01	2.40E-01
		720.50		53.80	7.52E-01		8.68E-03	3.37E-01
+	SN-126	87.57	*	37.00	3.50E-01	3.50E-01	2.05E-01	1.72E-01
	SB-127	473.00		25.00	7.10E+01	5.52E+01	-2.01E+01	3.26E+01
		685.20		35.70	5.52E+01		6.03E+00	2.49E+01
		783.80		14.70	1.42E+02		3.54E+01	6.37E+01
	I-129	29.78		57.00	5.30E-01	5.30E-01	-3.00E-01	2.53E-01
		33.60		13.20	1.45E+00		8.98E-01	6.89E-01
		39.58		7.52	1.56E+00		5.33E-02	7.42E-01
	I-131	284.30		6.05	1.17E+01	9.35E-01	1.30E+00	5.42E+00
		364.48		81.20	9.35E-01		8.87E-02	4.28E-01
		636.97		7.26	1.49E+01		2.52E+00	6.78E+00
		722.89		1.80	5.12E+01		-9.67E+01	2.26E+01
	TE-132	49.72		13.10	4.43E+02	4.45E+01	-8.00E+02	2.12E+02
		228.16		88.00	4.45E+01		2.55E+00	2.09E+01
	BA-133	81.00		33.00	1.62E-01	9.35E-02	-5.29E-01	7.76E-02
		302.84		17.80	3.20E-01		-7.15E-03	1.49E-01
		356.01		60.00	9.35E-02		-2.77E-01	4.31E-02
	I-133	529.87		86.30	5.53E+09	5.53E+09	1.86E+09	2.55E+09
	XE-133	81.00		38.00	8.53E+00	8.53E+00	-2.79E+01	4.08E+00
	CS-134	563.23		8.38	8.82E-01	8.97E-02	4.45E-02	4.04E-01
		569.32		15.43	5.16E-01		1.56E-01	2.37E-01
		604.70		97.60	8.97E-02		1.32E-02	4.14E-02
		795.84		85.40	1.08E-01		4.61E-02	4.92E-02
		801.93		8.73	1.06E+00		5.05E-02	4.84E-01
	CS-135	268.24		16.00	3.84E-01	3.84E-01	2.47E-02	1.81E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.57E+00	4.13E-01	1.81E+00	1.70E+00

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	163.89	4.61	5.80E+00	4.13E-01	1.59E+00	2.75E+00
	176.55	13.56	1.97E+00		-6.50E-01	9.35E-01
	273.65	12.66	2.26E+00		-2.28E+00	1.06E+00
	340.57	48.50	6.11E-01		1.18E-01	2.83E-01
	818.50	99.70	4.13E-01		-3.97E-02	1.85E-01
	1048.07	79.60	5.61E-01		-2.30E-01	2.48E-01
	1235.34	19.70	3.48E+00		9.13E-02	1.59E+00
CS-137	661.65	85.12	8.50E-02	8.50E-02	-2.51E-04	3.84E-02
LA-138	788.74	34.00	2.29E-01	1.00E-01	-2.93E-02	1.03E-01
	1435.80	66.00	1.00E-01		2.79E-02	4.05E-02
CE-139	165.85	80.35	7.46E-02	7.46E-02	4.67E-03	3.53E-02
BA-140	162.64	6.70	4.23E+00	1.44E+00	2.52E+00	2.01E+00
	304.84	4.50	6.72E+00		-3.41E-01	3.12E+00
	423.70	3.20	1.09E+01		9.62E-01	5.01E+00
	437.55	2.00	1.71E+01		-1.53E+00	7.87E+00
	537.32	25.00	1.44E+00		-4.47E-01	6.57E-01
LA-140	328.77	20.50	1.54E+00	4.52E-01	1.00E+00	7.16E-01
	487.03	45.50	7.89E-01		7.20E-02	3.62E-01
	815.85	23.50	1.96E+00		7.17E-01	8.84E-01
	1596.49	95.49	4.52E-01		-1.07E-01	1.87E-01
CE-141	145.44	48.40	2.02E-01	2.02E-01	1.23E-01	9.60E-02
CE-143	57.36	11.80	3.59E+06	1.11E+06	-7.22E+05	1.72E+06
	293.26	42.00	1.11E+06		1.41E+06	5.28E+05
	664.55	5.20	9.30E+06		9.77E+05	4.22E+06
CE-144	133.54	10.80	5.06E-01	5.06E-01	6.91E-02	2.41E-01
PM-144	476.78	42.00	1.83E-01	6.91E-02	5.29E-02	8.45E-02
	618.01	98.60	6.91E-02		1.31E-02	3.10E-02
	696.49	99.49	9.25E-02		-2.85E-03	4.24E-02
PM-145	36.85	21.70	6.26E-01	3.37E-01	-4.51E-01	2.98E-01
	37.36	39.70	3.37E-01		-2.29E-02	1.60E-01
	42.30	15.10	6.53E-01		-1.50E-01	3.11E-01
	72.40	2.31	3.02E+00		-1.94E+00	1.46E+00
PM-146	453.90	39.94	1.75E-01	1.75E-01	1.77E-02	8.08E-02
	735.90	14.01	5.58E-01		4.61E-02	2.52E-01
	747.13	13.10	5.00E-01		-3.05E-01	2.21E-01
ND-147	91.11	28.90	1.81E+00	1.81E+00	-2.27E+00	8.76E-01
	531.02	13.10	3.98E+00		-3.13E-02	1.83E+00
PM-149	285.90	3.10	2.61E+04	2.61E+04	-3.04E+03	1.20E+04
EU-152	121.78	20.50	2.26E-01	2.26E-01	1.78E-02	1.07E-01
	244.69	5.40	1.04E+00		-6.63E-01	4.89E-01
	344.27	19.13	2.59E-01		-6.87E-02	1.19E-01
	778.89	9.20	7.65E-01		-5.02E-01	3.39E-01
	964.01	10.40	9.41E-01		-1.47E-02	4.25E-01
	1085.78	7.22	1.19E+00		6.22E-02	5.21E-01
	1112.02	9.60	9.52E-01		-9.11E-02	4.21E-01
	1407.95	14.94	5.42E-01		1.31E-01	2.29E-01
GD-153	97.43	31.30	1.65E-01	1.65E-01	2.89E-02	7.85E-02
	103.18	22.20	2.43E-01		4.06E-02	1.16E-01
EU-154	123.07	40.50	1.16E-01	1.16E-01	2.77E-02	5.48E-02
	723.30	19.70	3.23E-01		-6.10E-01	1.42E-01
	873.19	11.50	7.51E-01		-1.12E-02	3.38E-01
	996.32	10.30	7.19E-01		-4.74E-01	3.12E-01
	1004.76	17.90	4.51E-01		-1.74E-01	1.98E-01

Analysis Report for 1507182-07

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	2.30E-01	1.16E-01	-1.10E-01	9.83E-02
	EU-155	86.50		30.90	2.07E-01	2.07E-01	8.72E-02	1.00E-01
		105.30		20.70	2.49E-01		-6.39E-02	1.19E-01
	EU-156	811.77		10.40	2.99E+00	2.99E+00	1.13E-01	1.33E+00
		1153.47		7.20	5.37E+00		5.71E-01	2.38E+00
		1230.71		8.90	4.86E+00		-1.43E+00	2.17E+00
	HO-166M	184.41		72.60	9.71E-02	9.71E-02	1.72E-01	4.66E-02
		280.45		29.60	1.84E-01		-2.41E-02	8.59E-02
		410.94		11.10	5.84E-01		1.98E-02	2.70E-01
		711.69		54.10	1.41E-01		-2.51E-02	6.39E-02
	TM-171	66.72		0.14	4.67E+01	4.67E+01	-9.98E+01	2.24E+01
	HF-172	81.75		4.52	1.19E+00	4.17E-01	-1.45E+00	5.68E-01
		125.81		11.30	4.17E-01		-4.68E-02	1.98E-01
	LU-172	181.53		20.60	6.08E+00	3.42E+00	2.75E-01	2.87E+00
		810.06		16.63	1.08E+01		-1.20E+00	4.81E+00
		912.12		15.25	2.06E+01		1.71E+01	9.58E+00
		1093.66		62.50	3.42E+00		7.62E-02	1.50E+00
	LU-173	100.72		5.24	9.33E-01	3.17E-01	1.97E-01	4.44E-01
		272.11		21.20	3.17E-01		2.25E-01	1.50E-01
	HF-175	343.40		84.00	7.49E-02	7.49E-02	-3.26E-02	3.40E-02
	LU-176	88.34		13.30	4.89E-01	5.94E-02	4.56E-01	2.36E-01
		201.83		86.00	6.68E-02		1.29E-02	3.17E-02
		306.78		94.00	5.94E-02		8.74E-03	2.76E-02
	TA-182	67.75		41.20	1.80E-01	1.80E-01	3.49E-02	8.64E-02
		1121.30		34.90	4.52E-01		3.18E-01	2.08E-01
		1189.05		16.23	6.81E-01		6.66E-02	2.99E-01
		1221.41		26.98	4.38E-01		2.51E-02	1.94E-01
		1231.02		11.44	1.11E+00		-3.25E-01	4.93E-01
	IR-192	308.46		29.68	2.43E-01	1.98E-01	2.77E-02	1.12E-01
		468.07		48.10	1.98E-01		-4.47E-02	9.18E-02
	HG-203	279.19		77.30	1.28E-01	1.28E-01	8.83E-02	6.00E-02
	BI-207	569.67		97.72	8.09E-02	8.09E-02	2.81E-02	3.73E-02
		1063.62		74.90	1.09E-01		7.50E-03	4.79E-02
+	TL-208	583.14	*	30.22	3.56E-01	1.83E-01	6.70E-01	1.68E-01
		860.37		4.48	1.58E+00		-8.22E-02	6.95E-01
		2614.66	*	35.85	1.83E-01		4.14E-01	6.83E-02
	BI-210M	262.00		45.00	1.15E-01	1.15E-01	-5.27E-02	5.36E-02
		300.00		23.00	2.45E-01		-1.78E-01	1.14E-01
	PB-210	46.50		4.25	2.31E+00	2.31E+00	2.27E+00	1.11E+00
	PB-211	404.84		2.90	1.77E+00	1.77E+00	-4.95E-01	8.02E-01
		831.96		2.90	2.89E+00		-1.09E+00	1.30E+00
	BI-212	727.17		11.80	7.85E-01	7.85E-01	4.10E-01	3.61E-01
		1620.62		2.75	2.61E+00		7.26E-01	1.06E+00
+	PB-212	238.63	*	44.60	2.38E-01	2.38E-01	5.66E-01	1.15E-01
		300.09		3.41	1.65E+00		-1.20E+00	7.69E-01
+	BI-214	609.31	*	46.30	2.00E-01	2.00E-01	4.80E-01	9.28E-02
		1120.29	*	15.10	6.58E-01		7.48E-01	2.94E-01
		1764.49	*	15.80	3.67E-01		4.41E-01	1.37E-01
		2204.22		4.98	1.80E+00		1.72E-02	7.39E-01
+	PB-214	295.21	*	19.19	4.64E-01	2.64E-01	2.27E-01	2.22E-01
		351.92	*	37.19	2.64E-01		6.07E-01	1.26E-01
	RN-219	401.80		6.50	8.99E-01	8.99E-01	3.39E-01	4.13E-01
	RA-223	323.87		3.88	1.38E+00	1.38E+00	-3.53E-01	6.40E-01

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Analysis Report for 1507182-07

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	RA-224	240.98	*	3.95	2.63E+00	2.63E+00	1.46E+00	1.27E+00
	RA-225	40.00		31.00	1.58E+00	1.58E+00	5.40E-02	7.51E-01
+	RA-226	186.21	*	3.28	2.27E+00	2.27E+00	1.30E+00	1.09E+00
	TH-227	50.10		8.40	9.17E-01	5.46E-01	-1.66E+00	4.38E-01
		236.00		11.50	5.46E-01		-2.12E+00	2.59E-01
		256.20		6.30	8.04E-01		-2.61E-01	3.74E-01
+	AC-228	338.32	*	11.40	6.34E-01	4.93E-01	5.09E-01	2.99E-01
		911.07	*	27.70	4.93E-01		4.74E-01	2.30E-01
		969.11	*	16.60	7.47E-01		4.22E-01	3.45E-01
	TH-230	48.44		16.90	5.54E-01	5.54E-01	4.86E-01	2.67E-01
		62.85		4.60	1.75E+00		2.89E+00	8.46E-01
		67.67		0.37	1.66E+01		3.22E+00	7.98E+00
	PA-231	283.67		1.60	3.20E+00	2.46E+00	1.21E+00	1.49E+00
		302.67		2.30	2.46E+00		-5.50E-02	1.15E+00
	TH-231	25.64		14.70	6.09E+00	8.92E-01	-3.93E+00	2.95E+00
		84.21		6.40	8.92E-01		-1.21E+00	4.28E-01
	PA-233	311.98		38.60	3.12E-01	3.12E-01	-8.65E-02	1.45E-01
	PA-234	131.20		20.40	2.47E-01	2.47E-01	8.69E-03	1.18E-01
		733.99		8.80	9.43E-01		4.11E-01	4.29E-01
		946.00		12.00	6.21E-01		-2.44E-01	2.72E-01
	PA-234M	1001.03		0.92	9.50E+00	9.50E+00	-8.62E-01	4.22E+00
	TH-234	63.29		3.80	2.10E+00	2.10E+00	3.07E+00	1.01E+00
	U-235	143.76		10.50	4.55E-01	4.55E-01	1.23E-01	2.16E-01
		163.35		4.70	1.10E+00		3.03E-01	5.24E-01
		205.31		4.70	1.14E+00		-1.43E-01	5.37E-01
	NP-237	86.50		12.60	5.02E-01	5.02E-01	2.11E-01	2.42E-01
	NP-239	106.10		22.70	2.11E+03	2.11E+03	-5.43E+02	1.01E+03
		228.18		10.70	4.63E+03		2.65E+02	2.17E+03
		277.60		14.10	4.15E+03		2.38E+03	1.95E+03
	AM-241	59.54		35.90	1.84E-01	1.84E-01	-1.97E-01	8.81E-02
+	AM-243	74.67	*	66.00	1.48E-01	1.48E-01	1.81E-01	7.21E-02
	CM-243	209.75		3.29	1.48E+00	4.46E-01	-2.40E-01	6.95E-01
		228.14		10.60	4.97E-01		2.85E-02	2.33E-01
		277.60		14.00	4.46E-01		2.56E-01	2.10E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1507182-07

FEEBRIS1D-6 085-086

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-6 085-086

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	32	49	68	205	191	142
25:	32	44	42	32	27	26	21	32
33:	29	27	31	22	21	23	31	38
41:	25	26	33	21	34	25	90	35
49:	23	32	39	34	30	40	34	33
57:	30	37	42	30	39	37	65	118
65:	49	37	35	39	46	40	28	48
73:	44	42	112	92	104	143	43	34
81:	33	27	33	36	51	33	47	82
89:	37	49	51	42	163	101	24	26
97:	28	26	28	28	22	23	32	23
105:	34	36	32	31	36	30	26	26
113:	36	27	37	35	23	15	21	23
121:	18	31	20	26	24	20	26	17
129:	26	26	22	37	27	23	27	20
137:	27	11	28	17	20	19	18	33
145:	22	19	19	30	18	23	21	19
153:	26	27	24	28	18	23	25	14
161:	24	22	27	26	21	20	18	26
169:	18	32	19	28	20	23	21	20
177:	19	23	24	26	17	16	17	20
185:	20	96	39	13	27	12	14	12
193:	18	13	13	13	12	24	24	22
201:	21	27	20	22	18	19	27	8
209:	20	20	14	13	9	16	15	13
217:	11	8	10	16	11	18	16	17
225:	16	14	17	19	14	15	13	16
233:	19	15	18	8	24	45	154	66
241:	27	43	26	12	17	15	12	14
249:	17	14	8	14	19	13	15	9
257:	14	11	17	11	13	10	10	19
265:	17	19	13	8	17	21	29	18
273:	14	13	9	15	20	21	20	10
281:	14	11	9	14	7	14	5	6
289:	8	12	9	9	10	13	35	45
297:	6	9	10	17	14	12	12	13
305:	11	13	11	16	8	8	11	9
313:	15	11	18	9	6	10	11	11
321:	12	9	17	6	10	8	15	9
329:	14	11	10	6	5	14	7	12
337:	11	11	31	6	8	8	1	12
345:	6	6	13	8	13	13	15	82
353:	65	16	8	9	7	7	10	9
361:	11	4	8	7	9	8	7	8

369:	6	12	7	4	9	5	7	15

Sample Title: FEEBRIS1D-6 085-086

Channel								
377:	4	4	9	10	9	4	6	4
385:	6	12	9	8	9	10	8	8
393:	14	10	7	5	9	8	6	9
401:	8	10	7	9	6	5	5	8
409:	7	5	7	10	9	6	5	13
417:	10	5	6	8	4	3	6	8
425:	6	5	17	6	6	13	5	3
433:	9	8	4	10	5	5	7	4
441:	10	8	3	4	7	7	7	11
449:	6	7	5	6	10	6	6	8
457:	10	8	6	2	10	10	12	11
465:	10	7	13	4	10	4	4	5
473:	9	3	6	12	8	8	7	8
481:	7	3	4	9	2	6	6	11
489:	4	4	9	5	8	6	5	5
497:	4	5	10	9	3	4	11	3
505:	6	5	9	6	12	25	57	38
513:	15	5	5	4	7	6	11	8
521:	2	4	5	8	3	7	10	5
529:	5	12	8	2	7	6	5	5
537:	10	4	5	3	4	4	9	7
545:	9	4	6	6	11	6	6	8
553:	2	10	4	5	6	8	5	2
561:	8	7	9	3	6	4	4	5
569:	3	8	11	10	6	5	5	4
577:	4	2	4	5	10	8	40	33
585:	6	6	9	7	4	4	5	2
593:	1	9	5	8	8	8	8	9
601:	3	6	9	6	7	5	6	11
609:	36	54	12	11	1	5	4	0
617:	5	4	6	4	3	2	4	5
625:	6	7	5	3	3	4	5	8
633:	5	5	3	4	6	2	8	6
641:	3	1	3	2	4	6	3	8
649:	1	3	2	4	7	3	7	6
657:	4	4	5	4	4	7	2	4
665:	4	4	5	7	4	5	1	3
673:	9	11	5	3	3	6	4	4
681:	5	5	2	1	5	7	5	4
689:	3	3	2	4	8	2	6	7
697:	12	7	3	4	7	5	3	5
705:	5	10	5	5	9	3	5	2
713:	2	5	4	6	4	7	4	0
721:	3	1	5	5	2	3	10	15
729:	5	4	6	3	9	4	3	4
737:	5	2	2	2	5	5	5	3
745:	2	3	4	2	1	4	3	6
753:	4	1	3	6	8	3	3	2
761:	1	6	3	3	1	7	5	5
769:	6	6	8	2	2	5	3	4
777:	2	6	2	3	1	3	7	5
785:	1	7	2	4	2	3	3	5
793:	4	6	4	7	3	6	5	3

801:	2	4	8	8	5	4	4	4

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Channel								
809:	2	2	3	2	4	6	4	7
817:	3	3	3	2	4	4	4	3
825:	4	4	4	4	4	5	3	4
833:	5	4	3	7	6	3	1	8
841:	6	2	4	4	5	9	3	2
849:	2	2	5	4	3	2	1	2
857:	2	3	2	3	8	0	0	6
865:	1	2	5	5	5	4	5	1
873:	0	6	3	8	3	3	2	5
881:	1	5	5	3	3	5	4	1
889:	1	5	3	2	4	5	1	4
897:	1	4	7	6	8	3	4	3
905:	2	2	5	5	1	7	23	15
913:	6	4	2	5	1	2	1	2
921:	3	2	7	4	2	5	4	2
929:	2	0	2	3	6	8	6	7
937:	5	2	3	5	3	2	1	1
945:	4	2	2	1	6	5	5	2
953:	4	4	5	2	5	5	4	3
961:	2	4	8	3	8	2	3	8
969:	18	5	5	4	2	2	2	2
977:	3	3	1	3	2	3	8	3
985:	1	3	1	1	1	3	2	2
993:	0	4	0	4	4	0	3	3
1001:	9	3	1	3	2	4	2	3
1009:	2	2	1	1	7	2	4	4
1017:	3	4	6	2	1	2	2	3
1025:	0	2	4	5	2	5	1	3
1033:	0	3	2	5	3	8	6	2
1041:	5	3	4	2	3	1	3	2
1049:	3	2	6	3	8	2	1	1
1057:	1	6	3	2	3	1	3	3
1065:	0	4	3	8	5	3	3	3
1073:	6	4	4	2	0	1	3	5
1081:	5	2	1	2	2	3	6	2
1089:	2	3	4	2	0	2	2	3
1097:	5	1	4	1	2	7	0	1
1105:	4	2	5	5	2	5	2	5
1113:	1	3	2	3	1	2	6	14
1121:	9	7	4	2	2	5	4	3
1129:	7	2	4	2	7	4	2	0
1137:	3	1	4	3	6	0	2	1
1145:	2	1	1	1	4	1	3	0
1153:	4	5	3	4	2	3	2	3
1161:	3	2	4	3	10	1	3	3
1169:	4	2	2	6	3	5	2	2
1177:	2	2	6	1	1	3	4	3
1185:	1	1	1	3	4	5	2	2
1193:	3	2	3	4	3	4	1	6
1201:	2	4	6	2	3	1	3	5
1209:	3	4	4	0	3	4	3	4
1217:	2	4	2	8	2	0	2	2
1225:	3	2	4	4	4	2	1	2

1233:	4	6	5	6	4	12	9	4

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Channel								
1241:	2	3	2	4	3	5	5	0
1249:	1	2	1	3	3	0	0	3
1257:	2	3	1	3	2	1	0	3
1265:	3	3	3	4	4	2	1	1
1273:	1	1	5	1	2	2	4	2
1281:	5	2	0	1	1	1	1	4
1289:	0	1	1	4	2	5	1	0
1297:	2	0	4	2	3	2	1	4
1305:	2	2	1	2	1	1	1	3
1313:	0	2	0	2	1	3	1	4
1321:	3	4	3	3	1	3	1	2
1329:	3	1	1	1	0	3	3	3
1337:	1	2	4	2	3	0	2	0
1345:	0	1	1	0	2	2	1	3
1353:	1	3	1	1	0	2	3	2
1361:	2	0	3	0	0	1	0	0
1369:	0	2	1	1	2	1	1	1
1377:	4	2	0	3	2	0	4	1
1385:	1	2	2	0	1	1	1	1
1393:	2	1	0	1	2	1	3	1
1401:	4	2	1	0	2	2	1	2
1409:	1	2	0	2	0	0	1	1
1417:	1	0	0	0	1	0	6	0
1425:	1	2	1	1	2	1	0	1
1433:	0	0	1	0	2	3	0	0
1441:	0	0	1	1	1	1	1	1
1449:	1	1	1	0	2	2	2	1
1457:	1	5	22	84	122	51	10	2
1465:	3	1	1	1	1	2	0	2
1473:	1	1	0	1	3	1	1	0
1481:	1	3	0	2	0	1	0	0
1489:	1	3	0	0	1	2	0	2
1497:	2	0	2	0	1	2	0	1
1505:	1	1	1	1	3	2	1	0
1513:	0	1	1	0	0	0	2	0
1521:	2	2	0	1	0	1	1	0
1529:	0	1	3	2	0	0	1	1
1537:	0	2	1	1	1	0	0	1
1545:	1	0	0	0	0	0	1	1
1553:	1	0	2	0	1	1	2	2
1561:	1	1	1	2	1	1	1	1
1569:	1	1	0	2	1	0	0	1
1577:	1	0	2	1	2	1	1	1
1585:	2	0	2	1	1	2	2	2
1593:	1	3	1	0	1	1	1	0
1601:	3	0	1	0	0	0	0	1
1609:	2	1	0	1	2	0	0	1
1617:	0	0	1	1	2	0	2	0
1625:	0	1	0	0	0	3	1	1
1633:	0	0	3	2	0	2	0	2
1641:	0	1	0	0	0	0	3	0
1649:	0	0	2	0	0	0	1	1
1657:	1	0	0	1	2	0	0	1

1665:	0	0	0	1	0	0	1	0

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Channel								
1673:	1	0	0	2	2	0	0	0
1681:	1	1	1	0	1	2	3	1
1689:	0	0	2	0	0	0	0	0
1697:	0	1	1	2	2	0	0	0
1705:	2	2	2	0	0	0	0	0
1713:	0	0	0	0	0	1	1	0
1721:	0	1	1	0	0	0	0	0
1729:	4	3	1	0	1	0	0	3
1737:	2	0	0	0	1	1	0	1
1745:	1	0	0	1	0	2	0	1
1753:	1	0	0	2	2	0	0	0
1761:	0	0	1	6	3	3	2	0
1769:	1	1	0	1	0	0	3	0
1777:	0	2	0	0	2	0	0	0
1785:	0	0	1	3	0	0	1	0
1793:	0	0	0	0	1	1	0	1
1801:	0	0	3	0	1	0	1	2
1809:	2	1	1	1	0	1	0	1
1817:	0	1	0	0	1	1	1	1
1825:	1	0	1	0	1	0	2	1
1833:	0	2	0	0	1	0	0	1
1841:	1	1	0	1	0	0	2	1
1849:	0	0	1	0	0	1	0	1
1857:	0	3	0	3	1	0	3	0
1865:	0	4	0	0	0	0	0	0
1873:	1	0	2	1	0	0	0	2
1881:	1	1	0	0	0	1	0	0
1889:	0	1	4	0	0	0	1	0
1897:	0	0	0	2	0	1	1	0
1905:	0	0	0	0	0	1	0	0
1913:	0	0	1	0	0	0	2	1
1921:	1	0	0	0	0	0	3	1
1929:	0	0	0	1	0	2	1	1
1937:	0	1	1	0	1	0	1	0
1945:	1	0	0	0	2	0	0	0
1953:	1	0	0	0	0	1	0	0
1961:	0	1	0	0	1	2	0	0
1969:	0	0	0	0	0	0	0	0
1977:	0	1	0	0	3	0	1	0
1985:	0	0	0	0	0	1	1	0
1993:	0	0	1	1	1	0	0	1
2001:	1	0	0	0	0	0	1	0
2009:	0	1	0	1	1	0	1	0
2017:	1	0	0	0	0	1	0	0
2025:	0	0	1	0	0	0	0	0
2033:	0	0	0	0	1	0	1	1
2041:	1	0	0	0	1	1	0	0
2049:	2	0	1	2	0	0	0	1
2057:	0	0	0	0	0	2	1	0
2065:	0	0	0	1	0	0	0	1
2073:	0	0	1	0	0	0	1	1
2081:	0	0	2	0	1	1	1	0
2089:	0	0	0	2	1	0	0	0

2097:	1	0	1	0	1	0	2	2

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Channel								
2105:	0	3	1	0	0	0	0	1
2113:	0	0	0	1	0	2	2	0
2121:	0	0	1	1	1	0	0	0
2129:	0	1	1	0	1	0	0	1
2137:	2	0	0	0	0	0	0	0
2145:	1	0	1	1	0	1	0	1
2153:	1	1	0	1	0	1	0	0
2161:	1	2	1	0	0	0	2	0
2169:	0	1	0	1	0	0	0	3
2177:	0	0	0	0	1	2	0	2
2185:	1	0	0	0	2	1	0	0
2193:	0	1	1	0	0	0	0	0
2201:	0	2	0	1	2	1	1	0
2209:	1	2	1	0	0	0	2	1
2217:	0	1	0	0	1	0	0	2
2225:	0	1	0	0	1	1	1	0
2233:	0	1	0	0	2	1	1	0
2241:	1	1	1	1	0	1	0	0
2249:	1	2	0	0	1	0	0	1
2257:	0	0	0	0	0	1	1	0
2265:	1	1	0	0	1	0	0	0
2273:	0	1	0	0	0	0	0	0
2281:	0	2	0	1	0	0	0	0
2289:	1	1	0	1	0	1	1	0
2297:	0	0	0	1	0	1	0	1
2305:	0	1	0	0	1	1	0	0
2313:	0	0	0	0	0	1	0	0
2321:	0	0	0	0	1	0	4	0
2329:	0	0	4	0	2	0	0	2
2337:	0	0	0	4	0	1	0	0
2345:	0	0	1	1	1	0	0	1
2353:	1	1	0	0	0	0	0	0
2361:	0	0	0	1	1	1	2	1
2369:	0	1	2	1	0	1	1	2
2377:	0	0	0	1	0	0	0	1
2385:	0	0	0	0	1	0	0	1
2393:	0	0	2	0	1	0	0	1
2401:	1	0	1	1	0	0	0	0
2409:	0	0	0	0	0	1	0	1
2417:	1	1	0	0	0	0	1	0
2425:	1	2	0	0	1	1	0	1
2433:	0	0	1	1	0	0	1	1
2441:	2	0	0	0	1	2	3	0
2449:	1	0	1	1	0	0	0	0
2457:	0	0	2	0	0	0	0	0
2465:	0	0	0	0	0	0	0	1
2473:	0	0	0	1	0	0	0	0
2481:	0	1	0	0	0	1	0	0
2489:	0	0	0	0	0	0	0	0
2497:	0	0	0	0	0	0	1	0
2505:	1	2	0	0	0	0	0	0
2513:	0	1	0	1	1	0	1	3
2521:	0	0	0	1	0	1	1	2

2529:	0	0	0	0	1	0	0	1

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Channel								
2537:	1	0	0	2	0	0	0	0
2545:	0	0	0	1	2	0	1	1
2553:	0	0	0	0	0	0	0	0
2561:	0	0	1	1	0	0	0	1
2569:	1	0	0	1	0	0	0	0
2577:	0	0	0	0	0	0	0	1
2585:	0	1	1	1	0	0	0	0
2593:	1	0	1	1	0	0	0	0
2601:	0	1	1	0	0	0	0	0
2609:	0	0	0	4	5	11	5	3
2617:	1	0	0	1	2	0	0	1
2625:	1	0	0	0	0	0	1	1
2633:	0	0	0	0	0	0	1	0
2641:	0	1	0	0	0	1	0	0
2649:	0	0	0	0	0	1	1	0
2657:	0	1	1	0	0	0	0	0
2665:	0	0	0	0	0	1	1	0
2673:	0	1	0	0	1	1	0	0
2681:	0	0	1	1	0	0	1	0
2689:	0	0	2	0	1	0	1	0
2697:	1	1	1	1	0	0	1	0
2705:	0	0	0	0	0	0	0	0
2713:	1	1	0	0	0	0	0	0
2721:	1	0	0	0	1	0	0	1
2729:	0	0	0	1	0	1	0	0
2737:	0	0	1	0	0	0	0	0
2745:	2	0	2	0	0	1	0	1
2753:	0	0	0	0	0	0	1	0
2761:	0	1	0	2	0	0	0	2
2769:	0	0	1	0	0	1	0	0
2777:	2	0	1	0	1	0	0	0
2785:	1	0	0	0	1	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	0	0	0	0	0	0	0	0
2809:	2	0	0	0	0	2	0	0
2817:	1	2	0	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	1	0	0	0	1	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	1	0	2	0	1	1	1	0
2857:	0	0	1	1	1	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	1	1	0	0
2881:	0	0	0	2	0	0	1	0
2889:	0	0	0	0	1	0	0	1
2897:	0	0	0	0	0	0	0	0
2905:	1	0	0	0	0	0	0	1
2913:	0	0	0	0	1	0	0	0
2921:	0	0	0	0	0	0	0	2
2929:	0	0	0	0	0	0	0	0
2937:	1	0	0	2	0	1	0	0
2945:	0	0	0	1	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	1	0	0	1

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Channel								
2969:	0	0	0	0	0	0	0	1
2977:	0	0	1	0	0	0	0	1
2985:	1	0	0	0	0	0	0	1
2993:	0	0	0	0	0	0	0	2
3001:	1	0	1	0	0	0	1	0
3009:	0	1	0	0	0	1	1	0
3017:	0	0	2	0	0	0	0	2
3025:	0	0	1	0	0	0	0	0
3033:	0	0	0	1	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	1	0	0	0	1	0	2	0
3057:	0	0	1	0	0	0	0	0
3065:	0	0	0	0	0	0	1	1
3073:	0	0	0	0	0	0	0	0
3081:	1	0	0	0	0	0	1	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	1	0	1	0
3105:	0	0	0	0	0	0	0	0
3113:	1	1	1	1	1	0	0	0
3121:	0	0	0	0	1	0	0	0
3129:	0	0	0	0	0	1	0	0
3137:	2	0	0	0	0	0	0	1
3145:	0	1	0	0	0	0	0	0
3153:	0	0	2	0	0	0	0	0
3161:	0	0	2	0	0	0	0	1
3169:	1	0	0	0	0	0	1	0
3177:	0	1	0	0	0	0	0	0
3185:	0	2	0	1	1	2	0	1
3193:	1	0	0	0	0	0	0	0
3201:	3	0	1	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	1	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	2
3233:	0	0	0	0	1	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	1	0	0	0	1	1	0
3257:	0	0	0	0	0	0	0	2
3265:	2	0	0	0	1	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	1	0	0	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	1	0	0	0	0
3305:	0	0	1	0	0	0	0	1
3313:	0	0	1	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	1	0
3337:	0	0	0	0	1	0	0	0
3345:	1	0	0	1	2	0	1	1
3353:	1	0	0	1	0	0	0	0
3361:	0	0	0	0	1	0	1	0
3369:	0	1	0	1	0	0	0	0
3377:	0	0	0	0	0	0	1	0
3385:	0	0	1	0	0	0	1	1

3393:	1	1	0	1	0	0	0	0

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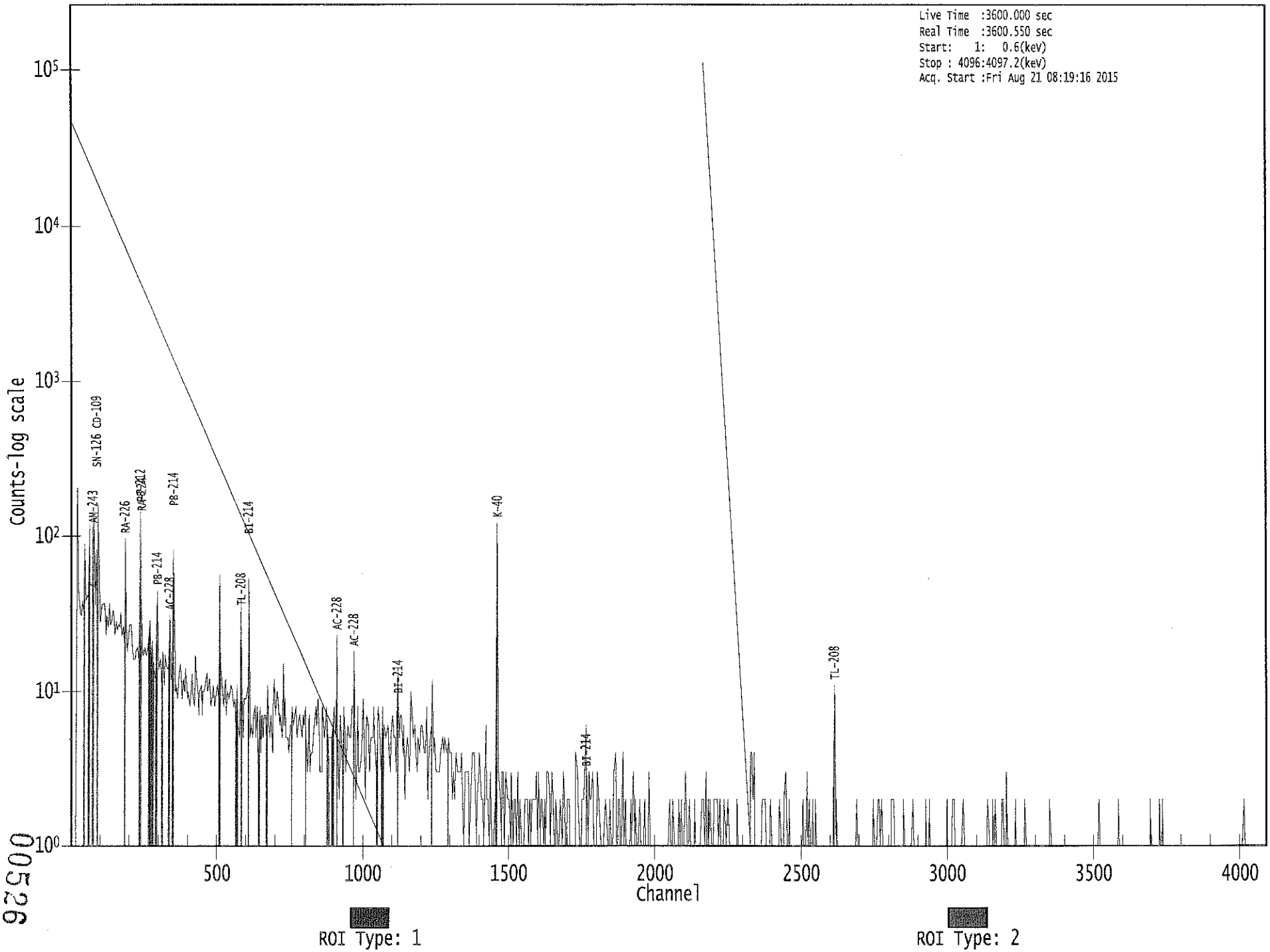
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	1
3417:	0	0	0	0	0	0	0	0
3425:	0	1	0	1	0	0	0	1
3433:	0	0	0	0	1	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	1	0	0	0	0	0	1	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	1	1
3473:	0	0	0	0	0	0	0	0
3481:	0	1	0	0	0	0	1	0
3489:	0	0	1	0	0	1	0	0
3497:	0	0	0	0	0	0	0	1
3505:	0	0	0	1	1	0	0	0
3513:	1	0	1	0	1	2	1	0
3521:	0	1	0	0	0	0	0	0
3529:	0	0	0	0	0	1	0	1
3537:	0	0	0	0	0	0	1	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	1	1	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	1
3585:	2	0	0	1	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	0	0	0	0	0	0
3617:	0	1	1	0	0	0	0	0
3625:	0	1	0	1	0	0	0	0
3633:	0	0	0	0	0	1	0	0
3641:	0	0	0	1	0	0	0	0
3649:	0	0	0	0	0	0	1	0
3657:	0	1	0	0	0	0	1	0
3665:	0	0	0	0	0	0	0	0
3673:	1	0	0	0	0	0	0	0
3681:	0	0	1	0	0	1	1	0
3689:	0	0	0	0	1	2	0	0
3697:	0	0	0	0	0	1	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	2	0	0
3729:	0	0	0	0	0	0	0	2
3737:	0	1	0	0	0	1	0	0
3745:	0	1	0	0	0	1	0	0
3753:	0	0	0	0	0	0	1	1
3761:	1	0	0	0	0	0	0	1
3769:	0	0	0	1	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	1	0	0	1
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-6 085-086

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	1	0	0	0	0	0	1	0
3857:	0	0	0	0	0	0	1	0
3865:	0	0	0	0	0	1	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	1	0
3889:	0	0	0	0	0	0	1	1
3897:	0	0	0	0	0	0	0	0
3905:	1	0	0	0	0	1	0	0
3913:	1	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	1	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	1	0	1
3985:	0	0	0	0	1	0	0	0
3993:	0	0	0	0	0	0	0	1
4001:	0	1	0	1	0	0	0	0
4009:	1	0	0	0	0	0	0	2
4017:	0	0	1	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	1
4073:	0	0	0	0	1	1	0	0
4081:	1	0	0	0	1	1	0	0
4089:	0	0	0	0	0	0	1	0

0000026238.CNF



00526

Apex-Gamma

Analysis Report for 1507182-08
FEEBRIS1D-7 093-094

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-08
Sample Description	: FEEBRIS1D-7 093-094
Sample Type	: SOIL
Sample Size	: 7.125E+02 grams
Facility	: Countroom
Sample Taken On	: 7/24/2015 6:46:37AM
Acquisition Started	: 8/21/2015 6:27:47AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3608.9 seconds
Dead Time	: 0.25 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 26227

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 7:27:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	45.76	45.01	0.0000	0.00
2	67.84	67.10	0.0000	0.00
3	76.52	75.79	0.0000	0.00
4	184.70	184.02	0.0000	0.00
5	240.13	239.47	0.0000	0.00
6	270.73	270.08	0.0000	0.00
7	295.42	294.78	0.0000	0.00
8	339.31	338.69	0.0000	0.00
9	352.23	351.61	0.0000	0.00
10	510.68	510.14	0.0000	0.00
11	609.61	609.12	0.0000	0.00
12	698.51	698.06	0.0000	0.00
13	796.00	795.60	0.0000	0.00
14	911.53	911.19	0.0000	0.00
15	964.91	964.60	0.0000	0.00
16	970.21	969.90	0.0000	0.00
17	975.70	975.40	0.0000	0.00
18	1120.36	1120.13	0.0000	0.00
19	1238.94	1238.78	0.0000	0.00
20	1377.72	1377.64	0.0000	0.00
21	1406.88	1406.82	0.0000	0.00
22	1461.23	1461.21	0.0000	0.00
23	1486.93	1486.92	0.0000	0.00
24	1594.35	1594.40	0.0000	0.00
25	1753.56	1753.71	0.0000	0.00
26	1764.73	1764.90	0.0000	0.00
27	1779.69	1779.86	0.0000	0.00
28	1849.92	1850.14	0.0000	0.00
29	1859.77	1860.00	0.0000	0.00
30	2204.78	2205.25	0.0000	0.00
31	2615.32	2616.10	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 7:27:58AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	45.76	42 -	48	45.01	1.32E+02	76.50	9.78E+02	2.05
	2	67.84	63 -	70	67.10	1.53E+02	107.70	1.82E+03	1.70
	3	76.52	71 -	81	75.79	6.23E+02	139.68	2.26E+03	3.92
	4	184.70	175 -	190	184.02	1.87E+02	109.60	1.12E+03	3.27
	5	240.13	233 -	246	239.47	3.15E+02	95.27	8.46E+02	4.54
	6	270.73	265 -	274	270.08	8.86E+01	62.36	5.05E+02	4.05
	7	295.42	292 -	299	294.78	1.73E+02	53.14	3.61E+02	2.44
	8	339.31	335 -	345	338.69	4.93E+01	54.58	3.77E+02	2.27
	9	352.23	347 -	357	351.61	3.61E+02	57.95	2.46E+02	2.40
	10	510.68	502 -	516	510.14	1.32E+02	41.72	1.28E+02	2.93
	11	609.61	603 -	614	609.12	2.41E+02	48.54	1.74E+02	3.02
	12	698.51	695 -	701	698.06	2.45E+01	19.17	4.90E+01	3.91
	13	796.00	792 -	799	795.60	2.12E+01	21.73	6.56E+01	3.53
	14	911.53	907 -	915	911.19	4.09E+01	23.31	5.82E+01	2.41
M	15	964.91	958 -	982	964.60	2.95E+01	21.05	2.47E+01	3.81
m	16	970.21	958 -	982	969.90	3.18E+01	20.71	2.54E+01	3.46
m	17	975.70	958 -	982	975.40	1.68E+01	18.79	2.78E+01	3.47
	18	1120.36	1114 -	1126	1120.13	4.01E+01	31.46	9.79E+01	2.50
	19	1238.94	1231 -	1245	1238.78	5.04E+01	30.17	7.32E+01	3.62
	20	1377.72	1373 -	1381	1377.64	2.63E+01	13.88	1.33E+01	5.48
	21	1406.88	1400 -	1412	1406.82	1.44E+01	16.64	2.52E+01	9.14
	22	1461.23	1456 -	1465	1461.21	2.38E+02	34.09	3.04E+01	2.63
	23	1486.93	1483 -	1490	1486.92	1.30E+01	7.21	0.00E+00	5.81
	24	1594.35	1589 -	1600	1594.40	1.08E+01	13.71	1.83E+01	2.36
	25	1753.56	1750 -	1756	1753.71	5.50E+00	7.78	7.00E+00	1.75
	26	1764.73	1760 -	1768	1764.90	3.90E+01	12.49	0.00E+00	2.28
	27	1779.69	1777 -	1782	1779.86	5.64E+00	6.08	2.71E+00	2.99
	28	1849.92	1847 -	1853	1850.14	7.50E+00	6.95	3.00E+00	3.33
	29	1859.77	1857 -	1862	1860.00	5.00E+00	4.47	0.00E+00	2.98
	30	2204.78	2201 -	2209	2205.25	1.60E+01	8.00	0.00E+00	3.58
	31	2615.32	2611 -	2619	2616.10	2.10E+01	9.17	0.00E+00	2.21

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 7:27:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	45.76	42 -	48	1.32E+02	76.50	9.78E+02	6.00E+01
	2	67.84	63 -	70	1.53E+02	107.70	1.82E+03	8.62E+01
	3	76.52	71 -	81	6.23E+02	139.68	2.26E+03	1.07E+02
	4	184.70	175 -	190	1.87E+02	109.60	1.12E+03	8.72E+01
	5	240.13	233 -	246	3.15E+02	95.27	8.46E+02	7.27E+01
	6	270.73	265 -	274	8.86E+01	62.36	5.05E+02	4.89E+01
	7	295.42	292 -	299	1.73E+02	53.14	3.61E+02	3.79E+01
	8	339.31	335 -	345	4.93E+01	54.58	3.77E+02	4.34E+01
	9	352.23	347 -	357	3.61E+02	57.95	2.46E+02	3.60E+01
	10	510.68	502 -	516	1.32E+02	41.72	1.28E+02	2.86E+01
	11	609.61	603 -	614	2.41E+02	48.54	1.74E+02	3.07E+01
	12	698.51	695 -	701	2.45E+01	19.17	4.90E+01	1.35E+01
	13	796.00	792 -	799	2.12E+01	21.73	6.56E+01	1.62E+01
	14	911.53	907 -	915	4.09E+01	23.31	5.82E+01	1.60E+01
M	15	964.91	958 -	982	2.95E+01	21.05	2.47E+01	8.17E+00
m	16	970.21	958 -	982	3.18E+01	20.71	2.54E+01	8.29E+00
m	17	975.70	958 -	982	1.68E+01	18.79	2.78E+01	8.66E+00
	18	1120.36	1114 -	1126	4.01E+01	31.46	9.79E+01	2.37E+01
	19	1238.94	1231 -	1245	5.04E+01	30.17	7.32E+01	2.19E+01
	20	1377.72	1373 -	1381	2.63E+01	13.88	1.33E+01	7.69E+00
	21	1406.88	1400 -	1412	1.44E+01	16.64	2.52E+01	1.22E+01
	22	1461.23	1456 -	1465	2.38E+02	34.09	3.04E+01	1.19E+01
	23	1486.93	1483 -	1490	1.30E+01	7.21	0.00E+00	0.00E+00
	24	1594.35	1589 -	1600	1.08E+01	13.71	1.83E+01	9.89E+00
	25	1753.56	1750 -	1756	5.50E+00	7.78	7.00E+00	5.10E+00
	26	1764.73	1760 -	1768	3.90E+01	12.49	0.00E+00	0.00E+00
	27	1779.69	1777 -	1782	5.64E+00	6.08	2.71E+00	3.12E+00
	28	1849.92	1847 -	1853	7.50E+00	6.95	3.00E+00	3.51E+00
	29	1859.77	1857 -	1862	5.00E+00	4.47	0.00E+00	0.00E+00
	30	2204.78	2201 -	2209	1.60E+01	8.00	0.00E+00	0.00E+00
	31	2615.32	2611 -	2619	2.10E+01	9.17	0.00E+00	0.00E+00

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 7:27:58AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	45.76	42 -	48	45.01	1.32E+02	76.50	9.78E+02	PB-210
	2	67.84	63 -	70	67.10	1.53E+02	107.70	1.82E+03	TI-44
									TA-182
									TH-230
	3	76.52	71 -	81	75.79	6.23E+02	139.68	2.26E+03	.....
	4	184.70	175 -	190	184.02	1.87E+02	109.60	1.12E+03	HO-166M
	5	240.13	233 -	246	239.47	3.15E+02	95.27	8.46E+02	RA-224
	6	270.73	265 -	274	270.08	8.86E+01	62.36	5.05E+02	.....
	7	295.42	292 -	299	294.78	1.73E+02	53.14	3.61E+02	PB-214
	8	339.31	335 -	345	338.69	4.93E+01	54.58	3.77E+02	AC-228
	9	352.23	347 -	357	351.61	3.61E+02	57.95	2.46E+02	PB-214
	10	510.68	502 -	516	510.14	1.32E+02	41.72	1.28E+02	.....
	11	609.61	603 -	614	609.12	2.41E+02	48.54	1.74E+02	BI-214
	12	698.51	695 -	701	698.06	2.45E+01	19.17	4.90E+01	.....
	13	796.00	792 -	799	795.60	2.12E+01	21.73	6.56E+01	CS-134
	14	911.53	907 -	915	911.19	4.09E+01	23.31	5.82E+01	AC-228
									LU-172
M	15	964.91	958 -	982	964.60	2.95E+01	21.05	2.47E+01	EU-152
m	16	970.21	958 -	982	969.90	3.18E+01	20.71	2.54E+01	.....
m	17	975.70	958 -	982	975.40	1.68E+01	18.79	2.78E+01	.....
	18	1120.36	1114 -	1126	1120.13	4.01E+01	31.46	9.79E+01	BI-214
									SC-46
									TA-182
	19	1238.94	1231 -	1245	1238.78	5.04E+01	30.17	7.32E+01	CO-56
	20	1377.72	1373 -	1381	1377.64	2.63E+01	13.88	1.33E+01	.....
	21	1406.88	1400 -	1412	1406.82	1.44E+01	16.64	2.52E+01	.....
	22	1461.23	1456 -	1465	1461.21	2.38E+02	34.09	3.04E+01	K-40
	23	1486.93	1483 -	1490	1486.92	1.30E+01	7.21	0.00E+00	.....
	24	1594.35	1589 -	1600	1594.40	1.08E+01	13.71	1.83E+01	.....
	25	1753.56	1750 -	1756	1753.71	5.50E+00	7.78	7.00E+00	.....

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
26	1764.73	1760 -	1768	1764.90	3.90E+01	12.49	0.00E+00	BI-214
27	1779.69	1777 -	1782	1779.86	5.64E+00	6.08	2.71E+00	.....
28	1849.92	1847 -	1853	1850.14	7.50E+00	6.95	3.00E+00	.....
29	1859.77	1857 -	1862	1860.00	5.00E+00	4.47	0.00E+00	.....
30	2204.78	2201 -	2209	2205.25	1.60E+01	8.00	0.00E+00	BI-214
31	2615.32	2611 -	2619	2616.10	2.10E+01	9.17	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 7:27:58AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	45.76	1.32E+02	76.50	2.64E-02	1.78E-03
	2	67.84	1.53E+02	107.70	2.25E-02	1.74E-03
	3	76.52	6.23E+02	139.68	2.12E-02	1.69E-03
	4	184.70	1.87E+02	109.60	1.17E-02	1.15E-03
	5	240.13	3.15E+02	95.27	9.37E-03	9.82E-04
	6	270.73	8.86E+01	62.36	8.42E-03	8.87E-04
	7	295.42	1.73E+02	53.14	7.78E-03	8.43E-04
	8	339.31	4.93E+01	54.58	6.84E-03	7.94E-04
	9	352.23	3.61E+02	57.95	6.60E-03	7.80E-04
	10	510.68	1.32E+02	41.72	4.61E-03	5.62E-04
	11	609.61	2.41E+02	48.54	3.87E-03	4.17E-04
	12	698.51	2.45E+01	19.17	3.39E-03	3.20E-04
	13	796.00	2.12E+01	21.73	2.98E-03	2.65E-04
	14	911.53	4.09E+01	23.31	2.61E-03	2.06E-04
M	15	964.91	2.95E+01	21.05	2.47E-03	1.99E-04
m	16	970.21	3.18E+01	20.71	2.46E-03	1.99E-04
m	17	975.70	1.68E+01	18.79	2.44E-03	1.98E-04
	18	1120.36	4.01E+01	31.46	2.14E-03	1.79E-04
	19	1238.94	5.04E+01	30.17	1.95E-03	1.90E-04
	20	1377.72	2.63E+01	13.88	1.77E-03	2.06E-04
	21	1406.88	1.44E+01	16.64	1.74E-03	2.00E-04
	22	1461.23	2.38E+02	34.09	1.68E-03	1.89E-04
	23	1486.93	1.30E+01	7.21	1.66E-03	1.84E-04
	24	1594.35	1.08E+01	13.71	1.56E-03	1.61E-04

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
25	1753.56	5.50E+00	7.78	1.44E-03	1.28E-04
26	1764.73	3.90E+01	12.49	1.43E-03	1.26E-04
27	1779.69	5.64E+00	6.08	1.42E-03	1.23E-04
28	1849.92	7.50E+00	6.95	1.38E-03	1.11E-04
29	1859.77	5.00E+00	4.47	1.37E-03	1.11E-04
30	2204.78	1.60E+01	8.00	1.21E-03	1.11E-04
31	2615.32	2.10E+01	9.17	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 7:27:58AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	45.76	1.32E+02	76.50	1.76E+01	7.19E+00	1.15E+02	7.68E+01
	2	67.84	1.53E+02	107.70			1.53E+02	1.08E+02
	3	76.52	6.23E+02	139.68			6.23E+02	1.40E+02
	4	184.70	1.87E+02	109.60			1.87E+02	1.10E+02
	5	240.13	3.15E+02	95.27			3.15E+02	9.53E+01
	6	270.73	8.86E+01	62.36			8.86E+01	6.24E+01
	7	295.42	1.73E+02	53.14			1.73E+02	5.31E+01
	8	339.31	4.93E+01	54.58			4.93E+01	5.46E+01
	9	352.23	3.61E+02	57.95			3.61E+02	5.79E+01
	10	510.68	1.32E+02	41.72	4.04E+01	4.86E+00	9.17E+01	4.20E+01
	11	609.61	2.41E+02	48.54	1.70E+00	3.46E+00	2.39E+02	4.87E+01
	12	698.51	2.45E+01	19.17			2.45E+01	1.92E+01
	13	796.00	2.12E+01	21.73			2.12E+01	2.17E+01
	14	911.53	4.09E+01	23.31			4.09E+01	2.33E+01
M	15	964.91	2.95E+01	21.05			2.95E+01	2.11E+01
m	16	970.21	3.18E+01	20.71			3.18E+01	2.07E+01
m	17	975.70	1.68E+01	18.79			1.68E+01	1.88E+01
	18	1120.36	4.01E+01	31.46			4.01E+01	3.15E+01
	19	1238.94	5.04E+01	30.17			5.04E+01	3.02E+01
	20	1377.72	2.63E+01	13.88			2.63E+01	1.39E+01
	21	1406.88	1.44E+01	16.64			1.44E+01	1.66E+01
	22	1461.23	2.38E+02	34.09			2.38E+02	3.41E+01
	23	1486.93	1.30E+01	7.21			1.30E+01	7.21E+00

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
24	1594.35	1.08E+01	13.71			1.08E+01	1.37E+01
25	1753.56	5.50E+00	7.78			5.50E+00	7.78E+00
26	1764.73	3.90E+01	12.49	1.50E-01	9.97E-01	3.89E+01	1.25E+01
27	1779.69	5.64E+00	6.08			5.64E+00	6.08E+00
28	1849.92	7.50E+00	6.95			7.50E+00	6.95E+00
29	1859.77	5.00E+00	4.47			5.00E+00	4.47E+00
30	2204.78	1.60E+01	8.00			1.60E+01	8.00E+00
31	2615.32	2.10E+01	9.17	1.81E+00	1.16E+00	1.92E+01	9.24E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 7:27:58AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	45.76	1.32E+02	76.50	1.76E+01	7.19E+00	1.15E+02	7.68E+01
	2	67.84	1.53E+02	107.70			1.53E+02	1.08E+02
	3	76.52	6.23E+02	139.68			6.23E+02	1.40E+02
	4	184.70	1.87E+02	109.60			1.87E+02	1.10E+02
	5	240.13	3.15E+02	95.27			3.15E+02	9.53E+01
	6	270.73	8.86E+01	62.36			8.86E+01	6.24E+01
	7	295.42	1.73E+02	53.14			1.73E+02	5.31E+01
	8	339.31	4.93E+01	54.58			4.93E+01	5.46E+01
	9	352.23	3.61E+02	57.95			3.61E+02	5.79E+01
	10	510.68	1.32E+02	41.72	4.04E+01	4.86E+00	9.17E+01	4.20E+01
	11	609.61	2.41E+02	48.54	1.70E+00	3.46E+00	2.39E+02	4.87E+01
	12	698.51	2.45E+01	19.17			2.45E+01	1.92E+01
	13	796.00	2.12E+01	21.73			2.12E+01	2.17E+01
	14	911.53	4.09E+01	23.31			4.09E+01	2.33E+01
M	15	964.91	2.95E+01	21.05			2.95E+01	2.11E+01
m	16	970.21	3.18E+01	20.71			3.18E+01	2.07E+01
m	17	975.70	1.68E+01	18.79			1.68E+01	1.88E+01
	18	1120.36	4.01E+01	31.46			4.01E+01	3.15E+01
	19	1238.94	5.04E+01	30.17			5.04E+01	3.02E+01
	20	1377.72	2.63E+01	13.88			2.63E+01	1.39E+01

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
21	1406.88	1.44E+01	16.64			1.44E+01	1.66E+01
22	1461.23	2.38E+02	34.09			2.38E+02	3.41E+01
23	1486.93	1.30E+01	7.21			1.30E+01	7.21E+00
24	1594.35	1.08E+01	13.71			1.08E+01	1.37E+01
25	1753.56	5.50E+00	7.78			5.50E+00	7.78E+00
26	1764.73	3.90E+01	12.49	1.50E-01	9.97E-01	3.89E+01	1.25E+01
27	1779.69	5.64E+00	6.08			5.64E+00	6.08E+00
28	1849.92	7.50E+00	6.95			7.50E+00	6.95E+00
29	1859.77	5.00E+00	4.47			5.00E+00	4.47E+00
30	2204.78	1.60E+01	8.00			1.60E+01	8.00E+00
31	2615.32	2.10E+01	9.17	1.81E+00	1.16E+00	1.92E+01	9.24E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.972	1460.81	*	10.67	1.39E+01	2.56E+00
TA-182	0.581	67.75	*	41.20	2.06E-01	1.46E-01
		1121.30	*	34.90	6.68E-01	5.28E-01
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.916	46.50	*	4.25	1.08E+00	7.26E-01
BI-214	0.987	609.31	*	46.30	1.41E+00	3.23E-01
		1120.29	*	15.10	1.30E+00	1.03E+00
		1764.49	*	15.80	1.81E+00	6.04E-01
		2204.22	*	4.98	2.81E+00	1.43E+00
PB-214	0.988	295.21	*	19.19	1.22E+00	3.98E-01
		351.92	*	37.19	1.55E+00	3.09E-01
RA-224	0.890	240.98	*	3.95	8.97E+00	2.87E+00
AC-228	0.538	338.32	*	11.40	6.66E-01	7.41E-01
		911.07	*	27.70	5.96E-01	3.43E-01
		969.11		16.60		

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 7:27:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.52	1.73034E-01	11.21		
	4	184.70	5.18563E-02	29.35	Tol.	HO-166M
	6	270.73	2.46224E-02	35.18		
	10	510.68	2.54694E-02	22.90		
	12	698.51	6.80556E-03	39.12		
	13	796.00	5.88477E-03	51.28	Tol.	CS-134
M	15	964.91	8.18144E-03	35.74	Tol.	EU-152
m	16	970.21	8.82158E-03	32.61		
m	17	975.70	4.66141E-03	55.98		
	19	1238.94	1.40022E-02	29.93	Tol.	CO-56
	20	1377.72	7.31482E-03	26.36		
	21	1406.88	3.99691E-03	57.83		
	23	1486.93	3.61111E-03	27.74		
	24	1594.35	3.00694E-03	63.33		
	25	1753.56	1.52778E-03	70.71		
	27	1779.69	1.56746E-03	53.90		
	28	1849.92	2.08333E-03	46.31		
	29	1859.77	1.38889E-03	44.72		
	31	2615.32	5.33179E-03	24.07	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.39E+01	2.56E+00
TA-182	0.58	67.75	*	41.20	2.06E-01	1.46E-01
		1121.30	*	34.90	6.68E-01	5.28E-01
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.91	46.50	*	4.25	1.08E+00	7.26E-01
BI-214	0.98	609.31	*	46.30	1.41E+00	3.23E-01
		1120.29	*	15.10	1.30E+00	1.03E+00
		1764.49	*	15.80	1.81E+00	6.04E-01
		2204.22	*	4.98	2.81E+00	1.43E+00
PB-214	0.98	295.21	*	19.19	1.22E+00	3.98E-01
		351.92	*	37.19	1.55E+00	3.09E-01
RA-224	0.89	240.98	*	3.95	8.97E+00	2.87E+00
AC-228	0.53	338.32	*	11.40	6.66E-01	7.41E-01
		911.07	*	27.70	5.96E-01	3.43E-01
		969.11		16.60		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.972	1.39E+01	2.56E+00	
TA-182	0.581	1.84E-01	1.41E-01	
PB-210	0.916	1.08E+00	7.26E-01	
BI-214	0.987	1.50E+00	2.70E-01	
PB-214	0.988	1.43E+00	2.44E-01	
RA-224	0.890	8.97E+00	2.87E+00	
AC-228	0.538	6.08E-01	3.11E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 7:27:58AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.52	1.73034E-01	11.21		
	4	184.70	5.18563E-02	29.35	Tol.	HO-166M
	6	270.73	2.46224E-02	35.18		
	10	510.68	2.54694E-02	22.90		
	12	698.51	6.80556E-03	39.12		
	13	796.00	5.88477E-03	51.28	Tol.	CS-134
M	15	964.91	8.18144E-03	35.74	Tol.	EU-152
m	16	970.21	8.82158E-03	32.61		
m	17	975.70	4.66141E-03	55.98		
	19	1238.94	1.40022E-02	29.93	Tol.	CO-56
	20	1377.72	7.31482E-03	26.36		
	21	1406.88	3.99691E-03	57.83		
	23	1486.93	3.61111E-03	27.74		
	24	1594.35	3.00694E-03	63.33		
	25	1753.56	1.52778E-03	70.71		
	27	1779.69	1.56746E-03	53.90		
	28	1849.92	2.08333E-03	46.31		
	29	1859.77	1.38889E-03	44.72		
	31	2615.32	5.33179E-03	24.07	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-4.92E-02	1.38E+00	1.38E+00
+	NA-22	1274.54		99.94	3.39E-02	1.73E-01	1.73E-01
+	NA-24	1368.53		99.99	8.34E+11	2.31E+12	3.99E+12
		2754.09		99.86	-9.43E+11		2.31E+12
+	AL-26	1808.65		99.76	1.75E-02	1.06E-01	1.06E-01
+	K-40	1460.81	*	10.67	1.39E+01	1.56E+00	1.56E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-3.13E-02	8.03E-02	8.03E-02
		78.34		96.00	2.19E-01		9.52E-02
+	SC-46	889.25		99.98	-3.48E-02	1.62E-01	1.62E-01
		1120.51		99.99	2.42E-01		2.70E-01
+	V-48	983.52		99.98	8.35E-02	4.49E-01	4.49E-01
		1312.10		97.50	1.02E-01		5.37E-01
+	CR-51	320.08		9.83	-1.97E-01	1.90E+00	1.90E+00
+	MN-54	834.83		99.97	9.35E-03	1.48E-01	1.48E-01
+	CO-56	846.75		99.96	4.58E-02	1.71E-01	1.71E-01
		1037.75		14.03	-8.34E-02		1.24E+00
		1238.25		67.00	3.30E-01		4.14E-01
		1771.40		15.51	-1.11E+00		9.65E-01
		2598.48		16.90	1.24E-02		6.88E-01
+	CO-57	122.06		85.51	-2.18E-02	8.81E-02	8.81E-02
		136.48		10.60	-2.88E-01		7.85E-01
+	CO-58	810.76		99.40	-1.15E-02	1.74E-01	1.74E-01
+	FE-59	1099.22		56.50	6.65E-02	4.43E-01	4.43E-01
		1291.56		43.20	-3.18E-01		4.50E-01
+	CO-60	1173.22		100.00	1.06E-01	1.17E-01	2.04E-01
		1332.49		100.00	-9.69E-02		1.17E-01
+	ZN-65	1115.52		50.75	5.43E-02	3.61E-01	3.61E-01
+	GA-67	93.31		35.70	2.57E+01	8.24E+01	8.24E+01
		208.95		2.24	6.93E+02		1.56E+03
		300.22		16.00	7.05E+01		2.57E+02
+	SE-75	121.11		16.70	4.52E-02	1.52E-01	4.95E-01
		136.00		59.20	-7.56E-02		1.52E-01
		264.65		59.80	2.32E-02		1.83E-01
		279.53		25.20	-1.32E-01		4.32E-01
		400.65		11.40	-9.63E-02		1.08E+00
+	RB-82	776.52		13.00	-9.98E-01	1.87E+00	1.87E+00
+	RB-83	520.41		46.00	-4.26E-02	2.32E-01	2.32E-01
		529.64		30.30	-5.34E-02		3.99E-01
		552.65		16.40	5.93E-02		8.21E-01
+	KR-85	513.99		0.43	3.01E+01	3.00E+01	3.00E+01
+	SR-85	513.99		99.27	1.76E-01	1.76E-01	1.76E-01
+	Y-88	898.02		93.40	-4.65E-02	1.10E-01	1.70E-01
		1836.01		99.38	-6.26E-02		1.10E-01
+	NB-93M	16.57		9.43	9.76E-01	3.75E-01	3.75E-01
+	NB-94	702.63		100.00	-2.50E-02	1.17E-01	1.17E-01
		871.10		100.00	-5.49E-03		1.21E-01

00540

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	9.72E-02	2.46E-01	2.46E-01
+	NB-95M	235.69	25.00	2.17E+00	1.03E+02	1.03E+02
+	ZR-95	724.18	43.70	5.30E-02	2.77E-01	3.69E-01
		756.72	55.30	-3.86E-02		2.77E-01
+	MO-99	181.06	6.20	-1.80E+03	1.22E+03	1.60E+03
		739.58	12.80	7.67E+02		1.22E+03
		778.00	4.50	-2.50E+03		2.93E+03
+	RU-103	497.08	89.00	-9.90E-03	1.80E-01	1.80E-01
+	RU-106	621.84	9.80	-4.83E-02	1.17E+00	1.17E+00
+	AG-108M	433.93	89.90	-2.79E-02	1.04E-01	1.04E-01
		614.37	90.40	-5.06E-03		1.82E-01
		722.95	90.50	-7.18E-03		1.31E-01
+	CD-109	88.03	3.72	1.25E+00	2.26E+00	2.26E+00
+	AG-110M	657.75	93.14	-3.06E-03	1.44E-01	1.44E-01
		677.61	10.53	-2.57E-02		1.22E+00
		706.67	16.46	-1.32E-01		7.69E-01
		763.93	21.98	-5.24E-02		6.52E-01
		884.67	71.63	6.06E-02		2.05E-01
		1384.27	23.94	-1.61E-01		6.33E-01
+	CD-113M	263.70	0.02	1.26E+01	3.92E+02	3.92E+02
+	SN-113	255.12	1.93	9.07E-01	1.86E-01	5.68E+00
		391.69	64.90	-3.42E-02		1.86E-01
+	TE123M	159.00	84.10	6.71E-02	1.22E-01	1.22E-01
+	SB-124	602.71	97.87	1.26E-02	1.63E-01	1.63E-01
		645.85	7.26	-9.25E-01		2.07E+00
		722.78	11.10	-5.20E-01		1.43E+00
		1691.02	49.00	3.18E-02		3.33E-01
+	I-125	35.49	6.49	1.64E-01	8.63E-01	8.63E-01
+	SB-125	176.33	6.89	5.59E-02	3.41E-01	1.22E+00
		427.89	29.33	-7.71E-02		3.41E-01
		463.38	10.35	3.07E-01		1.08E+00
		600.56	17.80	1.57E-01		6.64E-01
		635.90	11.32	1.57E-01		1.03E+00
+	SB-126	414.70	83.30	1.40E-01	5.82E-01	6.00E-01
		666.33	99.60	5.11E-02		5.82E-01
		695.00	99.60	-1.77E-02		5.85E-01
		720.50	53.80	-2.85E-02		1.04E+00
+	SN-126	87.57	37.00	1.20E-01	2.17E-01	2.17E-01
+	SB-127	473.00	25.00	-2.49E+01	5.25E+01	6.18E+01
		685.20	35.70	3.83E+00		5.25E+01
		783.80	14.70	9.32E+00		1.33E+02
+	I-129	29.78	57.00	-2.56E-02	6.70E-02	6.70E-02
		33.60	13.20	-5.62E-02		3.00E-01
		39.58	7.52	-2.83E-01		5.76E-01
+	I-131	284.30	6.05	-3.13E-01	1.30E+00	1.72E+01
		364.48	81.20	3.54E-01		1.30E+00
		636.97	7.26	-3.26E+00		1.71E+01
		722.89	1.80	-2.60E+01		7.12E+01

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		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	3.18E+01	3.82E+01	1.67E+02
			228.16	88.00	-2.01E+01		3.82E+01
+		BA-133	81.00	33.00	-8.29E-03	2.58E-01	2.67E-01
			302.84	17.80	2.17E-02		5.31E-01
			356.01	60.00	-2.02E-02		2.58E-01
+		I-133	529.87	86.30	-8.01E+07	5.99E+08	5.99E+08
+		XE-133	81.00	38.00	-2.90E-01	9.35E+00	9.35E+00
+		CS-134	563.23	8.38	-5.60E-03	1.61E-01	1.34E+00
			569.32	15.43	1.40E-02		7.27E-01
			604.70	97.60	7.67E-03		1.67E-01
			795.84	85.40	3.17E-02		1.61E-01
			801.93	8.73	1.95E-01		1.60E+00
+		CS-135	268.24	16.00	5.78E-01	6.62E-01	6.62E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	8.07E-01	5.18E-01	5.02E+00
			163.89	4.61	8.22E-01		7.92E+00
			176.55	13.56	1.22E-01		2.66E+00
			273.65	12.66	5.52E-02		3.69E+00
			340.57	48.50	6.20E-01		9.57E-01
			818.50	99.70	-3.58E-01		5.18E-01
			1048.07	79.60	3.97E-01		8.51E-01
			1235.34	19.70	2.19E+00		4.59E+00
+		CS-137	661.65	85.12	1.16E-01	1.55E-01	1.55E-01
+		LA-138	788.74	34.00	7.27E-02	1.69E-01	3.71E-01
			1435.80	66.00	-4.61E-02		1.69E-01
+		CE-139	165.85	80.35	2.17E-02	1.19E-01	1.19E-01
+		BA-140	162.64	6.70	-2.20E-01	2.04E+00	5.68E+00
			304.84	4.50	-2.58E+00		9.40E+00
			423.70	3.20	-9.20E-02		1.45E+01
			437.55	2.00	-3.98E+00		2.11E+01
			537.32	25.00	5.82E-01		2.04E+00
+		LA-140	328.77	20.50	1.25E+00	7.25E-01	2.24E+00
			487.03	45.50	1.49E-01		1.00E+00
			815.85	23.50	-4.27E-01		2.39E+00
			1596.49	95.49	2.91E-01		7.25E-01
+		CE-141	145.44	48.40	3.80E-02	3.13E-01	3.13E-01
+		CE-143	57.36	11.80	-6.89E+05	4.02E+05	6.83E+05
			293.26	42.00	-1.96E+05		4.02E+05
			664.55	5.20	-5.32E+05		3.15E+06
+		CE-144	133.54	10.80	-1.51E-01	7.61E-01	7.61E-01
+		PM-144	476.78	42.00	-2.97E-02	1.17E-01	2.45E-01
			618.01	98.60	-3.78E-03		1.17E-01
			696.49	99.49	-3.98E-03		1.32E-01
+		PM-145	36.85	21.70	-4.25E-02	1.05E-01	1.91E-01
			37.36	39.70	-4.62E-02		1.05E-01
			42.30	15.10	-1.01E-01		3.27E-01
			72.40	2.31	-6.43E-01		3.72E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90		39.94	3.77E-03	2.56E-01	2.56E-01
		735.90		14.01	-3.00E-01		8.78E-01
		747.13		13.10	-5.56E-01		7.75E-01
+	ND-147	91.11		28.90	1.63E+00	1.63E+00	1.63E+00
		531.02		13.10	-1.45E-01		4.45E+00
+	PM-149	285.90		3.10	6.97E+03	1.96E+04	1.96E+04
+	EU-152	121.78		20.50	-8.48E-02	3.43E-01	3.43E-01
		244.69		5.40	-2.65E-01		1.92E+00
		344.27		19.13	-2.95E+00		4.84E-01
		778.89		9.20	-1.06E+00		1.24E+00
		964.01		10.40	-1.14E-01		1.54E+00
		1085.78		7.22	-5.34E-01		1.90E+00
		1112.02		9.60	2.09E-01		1.54E+00
		1407.95		14.94	2.10E-02		9.57E-01
+	GD-153	97.43		31.30	-8.31E-02	2.44E-01	2.44E-01
		103.18		22.20	-1.11E-01		3.30E-01
+	EU-154	123.07		40.50	-3.49E-02	1.77E-01	1.77E-01
		723.30		19.70	-3.32E-02		6.07E-01
		873.19		11.50	-5.92E-01		1.05E+00
		996.32		10.30	2.45E-01		1.33E+00
		1004.76		17.90	-1.61E-01		8.28E-01
		1274.45		35.50	9.42E-02		4.81E-01
+	EU-155	86.50		30.90	2.93E-02	2.61E-01	2.61E-01
		105.30		20.70	-1.59E-01		3.28E-01
+	EU-156	811.77		10.40	5.44E-01	4.59E+00	4.59E+00
		1153.47		7.20	3.30E+00		9.21E+00
		1230.71		8.90	-2.30E-01		6.62E+00
+	HO-166M	184.41		72.60	1.26E-01	1.28E-01	1.28E-01
		280.45		29.60	-8.25E-02		3.10E-01
		410.94		11.10	-2.82E-01		9.11E-01
		711.69		54.10	4.33E-02		2.29E-01
+	TM-171	66.72		0.14	5.30E+01	5.57E+01	5.57E+01
+	HF-172	81.75		4.52	-2.92E-01	6.71E-01	1.88E+00
		125.81		11.30	3.77E-02		6.71E-01
+	LU-172	181.53		20.60	-2.43E+00	4.87E+00	7.79E+00
		810.06		16.63	-9.50E-01		1.44E+01
		912.12		15.25	1.20E+01		2.03E+01
		1093.66		62.50	1.61E+00		4.87E+00
+	LU-173	100.72		5.24	-8.77E-01	5.32E-01	1.33E+00
		272.11		21.20	6.19E-01		5.32E-01
+	HF-175	343.40		84.00	-2.53E-01	1.55E-01	1.55E-01
+	LU-176	88.34		13.30	4.06E-01	9.84E-02	6.03E-01
		201.83		86.00	-1.44E-02		1.02E-01
		306.78		94.00	7.37E-03		9.84E-02
+	TA-182	67.75	*	41.20	2.06E-01	2.36E-01	2.36E-01
		1121.30	*	34.90	6.68E-01		8.36E-01
		1189.05		16.23	-1.33E-02		1.22E+00
		1221.41		26.98	2.86E-01		8.01E-01
		1231.02		11.44	-5.90E-02		1.70E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	7.23E-02	2.89E-01	3.97E-01
		468.07		48.10	2.80E-02		2.89E-01
+	HG-203	279.19		77.30	-5.55E-02	1.81E-01	1.81E-01
+	BI-207	569.67		97.72	2.16E-03	1.12E-01	1.12E-01
		1063.62		74.90	9.96E-02		2.10E-01
+	TL-208	583.14		30.22	1.25E-01	4.22E-01	4.22E-01
		860.37		4.48	6.40E-01		2.89E+00
		2614.66		35.85	4.20E-01		6.59E-01
+	BI-210M	262.00		45.00	3.60E-02	2.04E-01	2.04E-01
		300.00		23.00	5.10E-02		5.16E-01
+	PB-210	46.50	*	4.25	1.08E+00	1.17E+00	1.17E+00
+	PB-211	404.84		2.90	-1.10E+00	3.52E+00	3.52E+00
		831.96		2.90	1.35E-01		4.74E+00
+	BI-212	727.17		11.80	4.57E-02	1.01E+00	1.01E+00
		1620.62		2.75	8.29E-02		3.95E+00
+	PB-212	238.63		44.60	7.08E-01	2.89E-01	2.89E-01
		300.09		3.41	3.44E-01		3.48E+00
+	BI-214	609.31	*	46.30	1.41E+00	2.22E-01	3.79E-01
		1120.29	*	15.10	1.30E+00		1.63E+00
		1764.49	*	15.80	1.81E+00		2.22E-01
		2204.22	*	4.98	2.81E+00		4.75E-01
+	PB-214	295.21	*	19.19	1.22E+00	3.20E-01	5.55E-01
		351.92	*	37.19	1.55E+00		3.20E-01
+	RN-219	401.80		6.50	3.97E-01	1.61E+00	1.61E+00
+	RA-223	323.87		3.88	-7.30E-01	2.50E+00	2.50E+00
+	RA-224	240.98	*	3.95	8.97E+00	4.22E+00	4.22E+00
+	RA-225	40.00		31.00	-2.56E-01	5.21E-01	5.21E-01
+	RA-226	186.21		3.28	2.51E+00	2.81E+00	2.81E+00
+	TH-227	50.10		8.40	1.28E-01	6.77E-01	6.77E-01
		236.00		11.50	2.18E-02		1.03E+00
		256.20		6.30	-1.42E-01		1.45E+00
+	AC-228	338.32	*	11.40	6.66E-01	5.07E-01	1.21E+00
		911.07	*	27.70	5.96E-01		5.07E-01
		969.11		16.60	3.77E-01		1.08E+00
+	TH-230	48.44		16.90	4.04E-02	3.30E-01	3.30E-01
		62.85		4.60	3.25E-02		1.48E+00
		67.67		0.37	-7.97E+00		2.04E+01
+	PA-231	283.67		1.60	3.69E-01	4.09E+00	5.82E+00
		302.67		2.30	1.67E-01		4.09E+00
+	TH-231	25.64		14.70	-1.11E-01	2.61E-01	2.61E-01
		84.21		6.40	1.98E-01		1.24E+00
+	PA-233	311.98		38.60	-1.30E-01	4.70E-01	4.70E-01
+	PA-234	131.20		20.40	1.12E-01	3.75E-01	3.75E-01
		733.99		8.80	-6.16E-01		1.36E+00
		946.00		12.00	1.98E-02		1.08E+00
+	PA-234M	1001.03		0.92	-1.44E+00	1.58E+01	1.58E+01
+	TH-234	63.29		3.80	1.06E-01	1.89E+00	1.89E+00

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	2.83E-01	7.98E-01	7.98E-01
		163.35	4.70	1.84E-01		1.77E+00
		205.31	4.70	-6.30E-01		1.88E+00
+	NP-237	86.50	12.60	7.10E-02	6.33E-01	6.33E-01
+	NP-239	106.10	22.70	-5.49E+02	1.13E+03	1.13E+03
		228.18	10.70	-4.05E+00		3.20E+03
		277.60	14.10	-1.37E+02		2.52E+03
+	AM-241	59.54	35.90	-3.81E-02	1.75E-01	1.75E-01
+	AM-243	74.67	66.00	2.39E-01	1.37E-01	1.37E-01
+	CM-243	209.75	3.29	1.87E+00	6.70E-01	2.78E+00
		228.14	10.60	-4.32E-01		8.21E-01
		277.60	14.00	-3.65E-02		6.70E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.38E+00	1.38E+00	-4.92E-02	6.48E-01
	NA-22	1274.54		99.94	1.73E-01	1.73E-01	3.39E-02	7.89E-02
	NA-24	1368.53		99.99	3.99E+12	2.31E+12	8.34E+11	1.75E+12
		2754.09		99.86	2.31E+12		-9.43E+11	7.31E+11
	AL-26	1808.65		99.76	1.06E-01	1.06E-01	1.75E-02	4.28E-02
+	K-40	1460.81	*	10.67	1.56E+00	1.56E+00	1.39E+01	7.00E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	8.03E-02	8.03E-02	-3.13E-02	3.95E-02
		78.34		96.00	9.52E-02		2.19E-01	4.69E-02
	SC-46	889.25		99.98	1.62E-01	1.62E-01	-3.48E-02	7.40E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SC-46	1120.51	99.99	2.70E-01	1.62E-01	2.42E-01	1.27E-01
V-48	983.52	99.98	4.49E-01	4.49E-01	8.35E-02	2.05E-01
	1312.10	97.50	5.37E-01		1.02E-01	2.42E-01
CR-51	320.08	9.83	1.90E+00	1.90E+00	-1.97E-01	9.10E-01
MN-54	834.83	99.97	1.48E-01	1.48E-01	9.35E-03	6.87E-02
CO-56	846.75	99.96	1.71E-01	1.71E-01	4.58E-02	7.91E-02
	1037.75	14.03	1.24E+00		-8.34E-02	5.66E-01
	1238.25	67.00	4.14E-01		3.30E-01	1.93E-01
	1771.40	15.51	9.65E-01		-1.11E+00	4.00E-01
	2598.48	16.90	6.88E-01		1.24E-02	2.44E-01
CO-57	122.06	85.51	8.81E-02	8.81E-02	-2.18E-02	4.29E-02
	136.48	10.60	7.85E-01		-2.88E-01	3.83E-01
CO-58	810.76	99.40	1.74E-01	1.74E-01	-1.15E-02	8.07E-02
FE-59	1099.22	56.50	4.43E-01	4.43E-01	6.65E-02	2.04E-01
	1291.56	43.20	4.50E-01		-3.18E-01	1.98E-01
CO-60	1173.22	100.00	2.04E-01	1.17E-01	1.06E-01	9.49E-02
	1332.49	100.00	1.17E-01		-9.69E-02	5.07E-02
ZN-65	1115.52	50.75	3.61E-01	3.61E-01	5.43E-02	1.67E-01
GA-67	93.31	35.70	8.24E+01	8.24E+01	2.57E+01	4.04E+01
	208.95	2.24	1.56E+03		6.93E+02	7.55E+02
	300.22	16.00	2.57E+02		7.05E+01	1.24E+02
SE-75	121.11	16.70	4.95E-01	1.52E-01	4.52E-02	2.41E-01
	136.00	59.20	1.52E-01		-7.56E-02	7.41E-02
	264.65	59.80	1.83E-01		2.32E-02	8.83E-02
	279.53	25.20	4.32E-01		-1.32E-01	2.08E-01
	400.65	11.40	1.08E+00		-9.63E-02	5.14E-01
RB-82	776.52	13.00	1.87E+00	1.87E+00	-9.98E-01	8.56E-01
RB-83	520.41	46.00	2.32E-01	2.32E-01	-4.26E-02	1.07E-01
	529.64	30.30	3.99E-01		-5.34E-02	1.86E-01
	552.65	16.40	8.21E-01		5.93E-02	3.85E-01
KR-85	513.99	0.43	3.00E+01	3.00E+01	3.01E+01	1.43E+01
SR-85	513.99	99.27	1.76E-01	1.76E-01	1.76E-01	8.38E-02
Y-88	898.02	93.40	1.70E-01	1.10E-01	-4.65E-02	7.80E-02
	1836.01	99.38	1.10E-01		-6.26E-02	4.26E-02
NB-93M	16.57	9.43	3.75E-01	3.75E-01	9.76E-01	1.82E-01
NB-94	702.63	100.00	1.17E-01	1.17E-01	-2.50E-02	5.45E-02
	871.10	100.00	1.21E-01		-5.49E-03	5.54E-02
NB-95	765.79	99.81	2.46E-01	2.46E-01	9.72E-02	1.15E-01
NB-95M	235.69	25.00	1.03E+02	1.03E+02	2.17E+00	5.00E+01
ZR-95	724.18	43.70	3.69E-01	2.77E-01	5.30E-02	1.71E-01
	756.72	55.30	2.77E-01		-3.86E-02	1.27E-01
MO-99	181.06	6.20	1.60E+03	1.22E+03	-1.80E+03	7.79E+02
	739.58	12.80	1.22E+03		7.67E+02	5.69E+02
	778.00	4.50	2.93E+03		-2.50E+03	1.35E+03
RU-103	497.08	89.00	1.80E-01	1.80E-01	-9.90E-03	8.47E-02
RU-106	621.84	9.80	1.17E+00	1.17E+00	-4.83E-02	5.42E-01
AG-108M	433.93	89.90	1.04E-01	1.04E-01	-2.79E-02	4.89E-02
	614.37	90.40	1.82E-01		-5.06E-03	8.67E-02
	722.95	90.50	1.31E-01		-7.18E-03	6.08E-02
CD-109	88.03	3.72	2.26E+00	2.26E+00	1.25E+00	1.11E+00
AG-110M	657.75	93.14	1.44E-01	1.44E-01	-3.06E-03	6.72E-02
	677.61	10.53	1.22E+00		-2.57E-02	5.68E-01
	706.67	16.46	7.69E-01		-1.32E-01	3.57E-01

Analysis Report for 1507182-08

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	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93	21.98	6.52E-01	1.44E-01	-5.24E-02	3.04E-01
		884.67	71.63	2.05E-01		6.06E-02	9.44E-02
		1384.27	23.94	6.33E-01		-1.61E-01	2.80E-01
	CD-113M	263.70	0.02	3.92E+02	3.92E+02	1.26E+01	1.89E+02
	SN-113	255.12	1.93	5.68E+00	1.86E-01	9.07E-01	2.74E+00
		391.69	64.90	1.86E-01		-3.42E-02	8.86E-02
	TE123M	159.00	84.10	1.22E-01	1.22E-01	6.71E-02	5.93E-02
	SB-124	602.71	97.87	1.63E-01	1.63E-01	1.26E-02	7.64E-02
		645.85	7.26	2.07E+00		-9.25E-01	9.62E-01
		722.78	11.10	1.43E+00		-5.20E-01	6.58E-01
		1691.02	49.00	3.33E-01		3.18E-02	1.39E-01
	I-125	35.49	6.49	8.63E-01	8.63E-01	1.64E-01	4.21E-01
	SB-125	176.33	6.89	1.22E+00	3.41E-01	5.59E-02	5.93E-01
		427.89	29.33	3.41E-01		-7.71E-02	1.62E-01
		463.38	10.35	1.08E+00		3.07E-01	5.15E-01
		600.56	17.80	6.64E-01		1.57E-01	3.11E-01
		635.90	11.32	1.03E+00		1.57E-01	4.79E-01
	SB-126	414.70	83.30	6.00E-01	5.82E-01	1.40E-01	2.85E-01
		666.33	99.60	5.82E-01		5.11E-02	2.72E-01
		695.00	99.60	5.85E-01		-1.77E-02	2.73E-01
		720.50	53.80	1.04E+00		-2.85E-02	4.83E-01
	SN-126	87.57	37.00	2.17E-01	2.17E-01	1.20E-01	1.06E-01
	SB-127	473.00	25.00	6.18E+01	5.25E+01	-2.49E+01	2.91E+01
		685.20	35.70	5.25E+01		3.83E+00	2.45E+01
		783.80	14.70	1.33E+02		9.32E+00	6.16E+01
	I-129	29.78	57.00	6.70E-02	6.70E-02	-2.56E-02	3.26E-02
		33.60	13.20	3.00E-01		-5.62E-02	1.46E-01
		39.58	7.52	5.76E-01		-2.83E-01	2.81E-01
	I-131	284.30	6.05	1.72E+01	1.30E+00	-3.13E-01	8.27E+00
		364.48	81.20	1.30E+00		3.54E-01	6.18E-01
		636.97	7.26	1.71E+01		-3.26E+00	7.95E+00
		722.89	1.80	7.12E+01		-2.60E+01	3.29E+01
	TE-132	49.72	13.10	1.67E+02	3.82E+01	3.18E+01	8.21E+01
		228.16	88.00	3.82E+01		-2.01E+01	1.84E+01
	BA-133	81.00	33.00	2.67E-01	2.58E-01	-8.29E-03	1.31E-01
		302.84	17.80	5.31E-01		2.17E-02	2.55E-01
		356.01	60.00	2.58E-01		-2.02E-02	1.25E-01
	I-133	529.87	86.30	5.99E+08	5.99E+08	-8.01E+07	2.80E+08
	XE-133	81.00	38.00	9.35E+00	9.35E+00	-2.90E-01	4.60E+00
	CS-134	563.23	8.38	1.34E+00	1.61E-01	-5.60E-03	6.29E-01
		569.32	15.43	7.27E-01		1.40E-02	3.41E-01
		604.70	97.60	1.67E-01		7.67E-03	7.95E-02
		795.84	85.40	1.61E-01		3.17E-02	7.47E-02
		801.93	8.73	1.60E+00		1.95E-01	7.42E-01
	CS-135	268.24	16.00	6.62E-01	6.62E-01	5.78E-01	3.21E-01
@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22	7.46	5.02E+00	5.18E-01	8.07E-01	2.45E+00
		163.89	4.61	7.92E+00		8.22E-01	3.85E+00
		176.55	13.56	2.66E+00		1.22E-01	1.29E+00
		273.65	12.66	3.69E+00		5.52E-02	1.78E+00
		340.57	48.50	9.57E-01		6.20E-01	4.60E-01

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	5.18E-01	5.18E-01	-3.58E-01	2.38E-01
	1048.07	79.60	8.51E-01		3.97E-01	3.91E-01
	1235.34	19.70	4.59E+00		2.19E+00	2.13E+00
CS-137	661.65	85.12	1.55E-01	1.55E-01	1.16E-01	7.27E-02
LA-138	788.74	34.00	3.71E-01	1.69E-01	7.27E-02	1.71E-01
	1435.80	66.00	1.69E-01		-4.61E-02	7.20E-02
CE-139	165.85	80.35	1.19E-01	1.19E-01	2.17E-02	5.79E-02
BA-140	162.64	6.70	5.68E+00	2.04E+00	-2.20E-01	2.77E+00
	304.84	4.50	9.40E+00		-2.58E+00	4.51E+00
	423.70	3.20	1.45E+01		-9.20E-02	6.86E+00
	437.55	2.00	2.11E+01		-3.98E+00	9.95E+00
	537.32	25.00	2.04E+00		5.82E-01	9.62E-01
LA-140	328.77	20.50	2.24E+00	7.25E-01	1.25E+00	1.07E+00
	487.03	45.50	1.00E+00		1.49E-01	4.72E-01
	815.85	23.50	2.39E+00		-4.27E-01	1.10E+00
	1596.49	95.49	7.25E-01		2.91E-01	3.19E-01
CE-141	145.44	48.40	3.13E-01	3.13E-01	3.80E-02	1.53E-01
CE-143	57.36	11.80	6.83E+05	4.02E+05	-6.89E+05	3.35E+05
	293.26	42.00	4.02E+05		-1.96E+05	1.95E+05
	664.55	5.20	3.15E+06		-5.32E+05	1.47E+06
CE-144	133.54	10.80	7.61E-01	7.61E-01	-1.51E-01	3.71E-01
PM-144	476.78	42.00	2.45E-01	1.17E-01	-2.97E-02	1.15E-01
	618.01	98.60	1.17E-01		-3.78E-03	5.45E-02
	696.49	99.49	1.32E-01		-3.98E-03	6.17E-02
PM-145	36.85	21.70	1.91E-01	1.05E-01	-4.25E-02	9.30E-02
	37.36	39.70	1.05E-01		-4.62E-02	5.10E-02
	42.30	15.10	3.27E-01		-1.01E-01	1.60E-01
	72.40	2.31	3.72E+00		-6.43E-01	1.83E+00
PM-146	453.90	39.94	2.56E-01	2.56E-01	3.77E-03	1.21E-01
	735.90	14.01	8.78E-01		-3.00E-01	4.07E-01
	747.13	13.10	7.75E-01		-5.56E-01	3.53E-01
ND-147	91.11	28.90	1.63E+00	1.63E+00	1.63E+00	8.02E-01
	531.02	13.10	4.45E+00		-1.45E-01	2.08E+00
PM-149	285.90	3.10	1.96E+04	1.96E+04	6.97E+03	9.43E+03
EU-152	121.78	20.50	3.43E-01	3.43E-01	-8.48E-02	1.67E-01
	244.69	5.40	1.92E+00		-2.65E-01	9.32E-01
	344.27	19.13	4.84E-01		-2.95E+00	2.31E-01
	778.89	9.20	1.24E+00		-1.06E+00	5.70E-01
	964.01	10.40	1.54E+00		-1.14E-01	7.16E-01
	1085.78	7.22	1.90E+00		-5.34E-01	8.60E-01
	1112.02	9.60	1.54E+00		2.09E-01	7.02E-01
	1407.95	14.94	9.57E-01		2.10E-02	4.23E-01
GD-153	97.43	31.30	2.44E-01	2.44E-01	-8.31E-02	1.19E-01
	103.18	22.20	3.30E-01		-1.11E-01	1.61E-01
EU-154	123.07	40.50	1.77E-01	1.77E-01	-3.49E-02	8.64E-02
	723.30	19.70	6.07E-01		-3.32E-02	2.81E-01
	873.19	11.50	1.05E+00		-5.92E-01	4.79E-01
	996.32	10.30	1.33E+00		2.45E-01	6.08E-01
	1004.76	17.90	8.28E-01		-1.61E-01	3.80E-01
	1274.45	35.50	4.81E-01		9.42E-02	2.19E-01
EU-155	86.50	30.90	2.61E-01	2.61E-01	2.93E-02	1.28E-01
	105.30	20.70	3.28E-01		-1.59E-01	1.60E-01
EU-156	811.77	10.40	4.59E+00	4.59E+00	5.44E-01	2.13E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	9.21E+00	4.59E+00	3.30E+00	4.26E+00
		1230.71		8.90	6.62E+00		-2.30E-01	3.02E+00
	HO-166M	184.41		72.60	1.28E-01	1.28E-01	1.26E-01	6.22E-02
		280.45		29.60	3.10E-01		-8.25E-02	1.49E-01
		410.94		11.10	9.11E-01		-2.82E-01	4.33E-01
		711.69		54.10	2.29E-01		4.33E-02	1.06E-01
	TM-171	66.72		0.14	5.57E+01	5.57E+01	5.30E+01	2.74E+01
	HF-172	81.75		4.52	1.88E+00	6.71E-01	-2.92E-01	9.26E-01
		125.81		11.30	6.71E-01		3.77E-02	3.27E-01
	LU-172	181.53		20.60	7.79E+00	4.87E+00	-2.43E+00	3.79E+00
		810.06		16.63	1.44E+01		-9.50E-01	6.65E+00
		912.12		15.25	2.03E+01		1.20E+01	9.48E+00
		1093.66		62.50	4.87E+00		1.61E+00	2.25E+00
	LU-173	100.72		5.24	1.33E+00	5.32E-01	-8.77E-01	6.52E-01
		272.11		21.20	5.32E-01		6.19E-01	2.58E-01
	HF-175	343.40		84.00	1.55E-01	1.55E-01	-2.53E-01	7.40E-02
	LU-176	88.34		13.30	6.03E-01	9.84E-02	4.06E-01	2.96E-01
		201.83		86.00	1.02E-01		-1.44E-02	4.94E-02
		306.78		94.00	9.84E-02		7.37E-03	4.72E-02
+	TA-182	67.75	*	41.20	2.36E-01	2.36E-01	2.06E-01	1.16E-01
		1121.30	*	34.90	8.36E-01		6.68E-01	3.95E-01
		1189.05		16.23	1.22E+00		-1.33E-02	5.58E-01
		1221.41		26.98	8.01E-01		2.86E-01	3.69E-01
		1231.02		11.44	1.70E+00		-5.90E-02	7.76E-01
	IR-192	308.46		29.68	3.97E-01	2.89E-01	7.23E-02	1.90E-01
		468.07		48.10	2.89E-01		2.80E-02	1.37E-01
	HG-203	279.19		77.30	1.81E-01	1.81E-01	-5.55E-02	8.73E-02
	BI-207	569.67		97.72	1.12E-01	1.12E-01	2.16E-03	5.25E-02
		1063.62		74.90	2.10E-01		9.96E-02	9.66E-02
	TL-208	583.14		30.22	4.22E-01	4.22E-01	1.25E-01	1.99E-01
		860.37		4.48	2.89E+00		6.40E-01	1.33E+00
		2614.66		35.85	6.59E-01		4.20E-01	2.92E-01
	BI-210M	262.00		45.00	2.04E-01	2.04E-01	3.60E-02	9.81E-02
		300.00		23.00	5.16E-01		5.10E-02	2.50E-01
+	PB-210	46.50	*	4.25	1.17E+00	1.17E+00	1.08E+00	5.70E-01
	PB-211	404.84		2.90	3.52E+00	3.52E+00	-1.10E+00	1.67E+00
		831.96		2.90	4.74E+00		1.35E-01	2.20E+00
	BI-212	727.17		11.80	1.01E+00	1.01E+00	4.57E-02	4.69E-01
		1620.62		2.75	3.95E+00		8.29E-02	1.64E+00
	PB-212	238.63		44.60	2.89E-01	2.89E-01	7.08E-01	1.41E-01
		300.09		3.41	3.48E+00		3.44E-01	1.69E+00
+	BI-214	609.31	*	46.30	3.79E-01	2.22E-01	1.41E+00	1.81E-01
		1120.29	*	15.10	1.63E+00		1.30E+00	7.71E-01
		1764.49	*	15.80	2.22E-01		1.81E+00	4.83E-02
		2204.22	*	4.98	4.75E-01		2.81E+00	0.00E+00
+	PB-214	295.21	*	19.19	5.55E-01	3.20E-01	1.22E+00	2.68E-01
		351.92	*	37.19	3.20E-01		1.55E+00	1.54E-01
	RN-219	401.80		6.50	1.61E+00	1.61E+00	3.97E-01	7.69E-01
	RA-223	323.87		3.88	2.50E+00	2.50E+00	-7.30E-01	1.20E+00
+	RA-224	240.98	*	3.95	4.22E+00	4.22E+00	8.97E+00	2.07E+00
	RA-225	40.00		31.00	5.21E-01	5.21E-01	-2.56E-01	2.54E-01
	RA-226	186.21		3.28	2.81E+00	2.81E+00	2.51E+00	1.37E+00
	TH-227	50.10		8.40	6.77E-01	6.77E-01	1.28E-01	3.32E-01

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00		11.50	1.03E+00	6.77E-01	2.18E-02	5.03E-01
		256.20		6.30	1.45E+00		-1.42E-01	7.00E-01
+	AC-228	338.32	*	11.40	1.21E+00	5.07E-01	6.66E-01	5.86E-01
		911.07	*	27.70	5.07E-01		5.96E-01	2.34E-01
		969.11		16.60	1.08E+00		3.77E-01	5.06E-01
	TH-230	48.44		16.90	3.30E-01	3.30E-01	4.04E-02	1.62E-01
		62.85		4.60	1.48E+00		3.25E-02	7.29E-01
		67.67		0.37	2.04E+01		-7.97E+00	1.00E+01
	PA-231	283.67		1.60	5.82E+00	4.09E+00	3.69E-01	2.80E+00
		302.67		2.30	4.09E+00		1.67E-01	1.96E+00
	TH-231	25.64		14.70	2.61E-01	2.61E-01	-1.11E-01	1.27E-01
		84.21		6.40	1.24E+00		1.98E-01	6.09E-01
	PA-233	311.98		38.60	4.70E-01	4.70E-01	-1.30E-01	2.25E-01
	PA-234	131.20		20.40	3.75E-01	3.75E-01	1.12E-01	1.83E-01
		733.99		8.80	1.36E+00		-6.16E-01	6.29E-01
		946.00		12.00	1.08E+00		1.98E-02	4.93E-01
	PA-234M	1001.03		0.92	1.58E+01	1.58E+01	-1.44E+00	7.24E+00
	TH-234	63.29		3.80	1.89E+00	1.89E+00	1.06E-01	9.31E-01
	U-235	143.76		10.50	7.98E-01	7.98E-01	2.83E-01	3.90E-01
		163.35		4.70	1.77E+00		1.84E-01	8.63E-01
		205.31		4.70	1.88E+00		-6.30E-01	9.11E-01
	NP-237	86.50		12.60	6.33E-01	6.33E-01	7.10E-02	3.11E-01
	NP-239	106.10		22.70	1.13E+03	1.13E+03	-5.49E+02	5.52E+02
		228.18		10.70	3.20E+03		-4.05E+00	1.55E+03
		277.60		14.10	2.52E+03		-1.37E+02	1.22E+03
	AM-241	59.54		35.90	1.75E-01	1.75E-01	-3.81E-02	8.59E-02
	AM-243	74.67		66.00	1.37E-01	1.37E-01	2.39E-01	6.75E-02
	CM-243	209.75		3.29	2.78E+00	6.70E-01	1.87E+00	1.35E+00
		228.14		10.60	8.21E-01		-4.32E-01	3.97E-01
		277.60		14.00	6.70E-01		-3.65E-02	3.22E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

00550

Analysis Report for 1507182-08

FEEBRIS1D-7 093-094

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-7 093-094

Elapsed Live time: 3600
Elapsed Real Time: 3609

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	24	105
17:	91	80	76	78	54	61	56	68
25:	54	61	63	48	60	48	52	56
33:	57	60	51	65	63	56	66	60
41:	57	62	89	75	121	122	83	69
49:	87	93	90	94	89	85	78	81
57:	109	89	96	108	99	129	116	120
65:	107	155	197	139	121	109	105	127
73:	149	193	211	253	226	148	127	117
81:	98	101	123	114	99	115	130	104
89:	116	99	100	110	107	81	87	68
97:	70	57	78	74	50	63	65	63
105:	63	61	56	59	73	68	73	56
113:	46	53	51	60	48	60	50	61
121:	58	56	50	60	51	60	65	56
129:	68	63	58	53	43	67	54	51
137:	66	55	59	68	56	62	64	73
145:	61	54	64	59	53	63	60	51
153:	63	79	54	55	54	56	54	57
161:	56	53	48	39	50	46	51	44
169:	53	38	39	43	42	50	31	42
177:	58	48	44	35	39	36	52	52
185:	69	76	65	41	33	26	34	46
193:	41	39	45	38	42	38	47	46
201:	34	42	39	37	30	42	32	49
209:	45	43	37	43	41	31	26	28
217:	23	35	27	34	32	33	26	37
225:	30	30	32	31	29	40	26	47
233:	32	36	41	44	71	112	94	47
241:	81	59	45	30	22	24	22	25
249:	34	30	30	25	28	22	36	30
257:	28	33	24	27	34	26	21	29
265:	22	22	27	40	44	47	49	36
273:	30	24	26	22	31	22	28	21
281:	25	16	30	21	22	31	24	26
289:	22	20	23	15	46	64	92	57
297:	35	23	22	28	18	25	24	27
305:	10	19	18	19	16	27	18	21
313:	15	15	14	19	32	12	17	15
321:	17	26	19	25	22	19	24	26
329:	26	20	8	22	17	17	10	19
337:	28	42	34	20	11	18	15	14
345:	27	13	17	12	27	53	139	125
353:	58	13	13	20	7	10	13	27
361:	11	10	18	16	14	10	11	20

369:	11	22	15	8	9	15	16	17

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Channel								
377:	11	18	16	12	17	9	12	10
385:	11	25	13	12	17	14	10	19
393:	23	19	13	18	20	16	10	16
401:	16	14	13	18	18	13	13	10
409:	18	22	12	14	12	11	14	11
417:	21	14	12	12	14	15	9	17
425:	13	10	16	12	11	11	9	15
433:	12	12	11	8	5	11	12	11
441:	9	11	12	9	7	17	9	10
449:	9	12	15	10	14	11	10	8
457:	13	13	7	12	11	16	17	15
465:	19	9	11	13	8	13	14	6
473:	9	10	9	9	14	10	11	7
481:	10	12	4	12	8	7	8	16
489:	9	10	9	13	3	9	11	9
497:	11	12	9	9	6	5	10	8
505:	3	13	10	16	14	35	26	21
513:	13	7	11	4	2	10	7	3
521:	10	6	4	7	6	6	8	6
529:	6	4	13	11	7	10	19	2
537:	10	12	11	5	13	8	7	8
545:	8	9	5	5	9	9	9	6
553:	12	5	14	8	10	11	6	8
561:	12	11	5	7	9	11	8	8
569:	7	8	9	6	9	10	8	8
577:	8	9	5	6	4	22	23	12
585:	8	11	8	13	8	10	5	7
593:	3	12	6	12	7	6	11	9
601:	11	6	10	4	9	9	12	75
609:	87	65	34	10	7	6	7	10
617:	3	9	8	5	10	5	5	6
625:	10	10	2	7	7	8	14	7
633:	3	7	8	4	10	5	7	10
641:	4	4	9	5	11	3	8	5
649:	8	8	11	8	10	5	7	7
657:	6	13	8	7	9	7	6	9
665:	16	5	5	3	5	11	7	4
673:	8	5	8	5	5	5	8	10
681:	8	9	6	5	12	8	4	5
689:	6	6	6	6	11	2	5	5
697:	11	7	9	9	3	4	5	9
705:	7	3	8	7	7	5	8	8
713:	4	6	8	9	4	4	6	11
721:	0	7	6	6	5	5	8	6
729:	7	7	4	4	4	9	9	7
737:	4	5	9	10	6	9	8	3
745:	3	5	2	3	5	2	4	7
753:	4	4	6	3	5	8	5	2
761:	9	8	3	4	7	8	9	11
769:	10	5	10	5	5	4	4	6
777:	3	8	6	1	6	4	6	10
785:	10	3	6	2	10	4	3	3
793:	4	8	12	8	10	7	2	8

801:	6	3	7	8	10	7	5	5

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Channel								
809:	9	6	6	9	4	2	8	3
817:	3	4	6	7	5	3	7	12
825:	4	5	6	10	3	8	5	7
833:	5	7	9	1	4	10	6	6
841:	5	11	4	4	7	4	3	4
849:	5	8	4	2	5	4	4	2
857:	3	6	7	3	7	5	8	4
865:	0	8	4	5	4	4	6	4
873:	3	4	4	7	1	6	7	6
881:	6	3	8	5	6	4	5	4
889:	2	5	4	4	7	7	5	4
897:	5	5	6	0	8	3	6	8
905:	5	6	1	7	5	8	17	17
913:	8	4	3	3	7	8	3	5
921:	7	7	6	7	2	6	9	2
929:	7	4	7	6	4	4	5	7
937:	7	8	5	4	5	6	5	4
945:	4	4	5	4	3	2	2	2
953:	7	2	3	3	2	0	6	2
961:	3	9	4	7	14	6	5	6
969:	11	11	9	3	6	5	6	7
977:	7	2	1	5	6	1	2	6
985:	3	7	5	7	1	1	3	5
993:	2	4	6	1	4	7	6	2
1001:	3	6	6	5	3	10	4	4
1009:	9	2	5	7	4	2	3	1
1017:	4	4	5	2	4	3	2	4
1025:	0	2	6	2	3	5	4	3
1033:	2	5	4	8	3	2	5	2
1041:	3	3	4	5	3	7	1	11
1049:	5	2	6	4	4	3	2	4
1057:	0	7	4	5	6	5	6	3
1065:	4	3	8	5	1	2	4	2
1073:	5	3	5	4	5	3	4	8
1081:	2	3	2	5	0	5	4	1
1089:	4	7	4	2	6	9	6	7
1097:	3	3	7	4	4	5	5	3
1105:	2	5	6	2	5	4	3	6
1113:	6	1	4	4	3	5	15	22
1121:	16	5	4	3	6	1	7	4
1129:	3	8	4	4	5	2	5	2
1137:	3	1	4	1	2	1	3	4
1145:	5	6	8	1	10	5	4	3
1153:	7	6	5	7	6	3	1	8
1161:	4	5	2	2	5	4	8	4
1169:	8	3	6	11	8	7	3	7
1177:	9	6	3	3	3	4	1	4
1185:	3	5	3	5	1	5	7	3
1193:	8	4	7	7	6	2	6	2
1201:	5	3	4	4	7	2	7	2
1209:	6	5	9	2	7	2	4	3
1217:	5	8	4	3	8	4	2	5
1225:	7	4	5	4	2	5	2	4

1233:	5	3	6	7	13	7	12	6

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Channel								
1241:	6	5	5	5	1	2	5	6
1249:	6	3	1	6	5	5	4	5
1257:	3	4	8	4	4	4	7	4
1265:	6	3	3	2	5	4	2	2
1273:	3	5	8	4	6	2	3	3
1281:	4	2	4	2	5	2	1	0
1289:	2	2	4	1	3	1	4	6
1297:	4	4	3	5	3	2	3	5
1305:	6	2	2	2	5	3	5	3
1313:	3	3	2	2	3	2	1	3
1321:	4	1	3	2	1	3	1	1
1329:	1	3	3	2	0	1	1	2
1337:	5	5	4	2	4	1	1	0
1345:	1	0	1	0	2	1	1	5
1353:	1	3	0	2	5	4	1	1
1361:	1	0	1	1	2	3	1	2
1369:	1	3	3	1	1	1	4	5
1377:	6	6	5	5	0	1	2	1
1385:	1	7	1	2	2	2	4	2
1393:	1	2	3	1	1	0	1	0
1401:	1	2	4	1	0	2	4	3
1409:	4	1	5	0	3	2	1	0
1417:	0	3	2	1	1	0	2	2
1425:	4	3	2	2	4	2	0	3
1433:	3	1	1	0	0	0	1	2
1441:	0	2	3	1	1	2	1	1
1449:	2	3	0	0	0	3	4	1
1457:	3	4	20	44	82	68	24	7
1465:	0	1	0	3	2	0	0	0
1473:	1	3	1	0	0	0	2	0
1481:	0	0	0	3	1	0	3	2
1489:	4	0	0	0	0	0	1	2
1497:	1	1	1	1	2	0	0	2
1505:	0	2	1	0	2	2	1	1
1513:	1	2	1	3	2	0	1	2
1521:	1	3	2	0	0	1	2	2
1529:	2	0	4	2	1	2	0	0
1537:	1	0	1	3	1	1	0	0
1545:	1	2	1	1	1	1	2	0
1553:	4	2	0	1	1	0	1	1
1561:	0	2	1	0	1	1	3	2
1569:	2	1	2	2	1	0	3	2
1577:	2	0	2	1	1	0	1	2
1585:	0	1	1	0	1	0	1	2
1593:	2	4	3	2	2	1	2	0
1601:	2	2	1	0	1	0	1	0
1609:	1	0	1	1	0	1	1	1
1617:	0	0	0	1	1	4	1	1
1625:	0	2	0	0	1	1	0	2
1633:	1	0	0	0	0	1	3	0
1641:	1	1	1	0	0	0	1	1
1649:	0	0	2	0	0	1	0	2
1657:	0	0	2	5	0	3	2	2

1665:	1	0	0	2	0	1	0	1

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Channel								
1673:	2	0	0	1	1	1	1	0
1681:	1	1	1	1	2	2	1	1
1689:	0	0	1	3	2	0	1	0
1697:	0	0	0	1	1	0	0	2
1705:	2	1	1	0	0	0	1	2
1713:	1	0	0	0	1	2	1	0
1721:	0	0	0	1	0	1	1	1
1729:	0	1	1	2	1	0	1	0
1737:	1	1	3	0	0	2	1	2
1745:	1	2	1	0	0	1	0	0
1753:	2	4	2	0	1	0	0	0
1761:	1	0	5	6	14	10	3	0
1769:	0	0	1	1	0	1	1	1
1777:	0	1	2	2	2	0	0	0
1785:	2	0	0	0	2	0	1	1
1793:	0	1	0	0	1	0	2	1
1801:	1	0	0	1	0	0	0	0
1809:	0	0	1	3	0	1	0	1
1817:	0	1	2	0	1	0	0	1
1825:	0	0	0	4	0	0	1	0
1833:	0	0	1	0	0	0	1	1
1841:	0	0	1	1	2	1	0	1
1849:	3	1	3	1	0	0	1	0
1857:	0	0	2	1	2	0	0	0
1865:	0	0	1	0	0	2	0	1
1873:	0	2	0	0	0	0	2	1
1881:	1	0	0	0	0	0	1	0
1889:	3	0	0	1	0	1	0	0
1897:	0	0	0	1	0	0	0	1
1905:	1	0	0	1	0	3	3	1
1913:	0	1	0	0	0	0	0	0
1921:	1	2	1	1	1	3	0	2
1929:	0	0	0	1	0	2	0	0
1937:	0	1	1	0	1	1	2	0
1945:	1	0	1	0	3	0	1	0
1953:	0	1	0	2	0	0	0	0
1961:	1	0	0	0	0	0	0	0
1969:	1	0	1	2	0	1	2	0
1977:	0	1	1	0	0	0	1	0
1985:	0	1	0	0	0	0	0	0
1993:	0	1	0	0	2	0	0	2
2001:	0	0	0	1	0	0	0	0
2009:	2	0	0	0	0	0	0	3
2017:	0	0	0	2	1	1	1	0
2025:	0	1	1	0	1	1	0	0
2033:	0	0	1	1	0	1	0	1
2041:	1	2	0	0	1	0	3	2
2049:	0	0	0	0	1	0	0	1
2057:	0	0	0	0	0	1	2	0
2065:	0	0	1	0	2	2	0	0
2073:	1	1	3	0	0	0	0	0
2081:	0	1	0	1	1	0	0	0
2089:	0	0	0	0	0	0	1	1

2097:	0	0	1	1	0	1	1	1

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Channel								
2105:	1	2	1	0	0	2	0	0
2113:	0	1	0	0	0	1	2	2
2121:	0	2	0	0	2	0	1	0
2129:	0	0	0	1	1	0	0	0
2137:	0	1	0	0	0	1	0	1
2145:	0	0	0	1	1	1	0	0
2153:	0	0	1	1	1	0	1	0
2161:	0	1	2	0	1	0	0	0
2169:	0	2	0	1	1	0	1	0
2177:	1	0	0	1	0	1	1	0
2185:	0	0	0	0	1	0	0	0
2193:	1	0	1	0	0	1	1	0
2201:	0	0	2	4	2	5	2	1
2209:	0	0	0	0	0	0	1	0
2217:	0	0	0	1	0	1	1	1
2225:	1	0	0	0	1	0	0	1
2233:	0	0	0	2	0	0	1	0
2241:	1	0	1	0	1	1	0	0
2249:	2	0	0	1	1	0	0	0
2257:	0	2	0	0	1	3	0	0
2265:	1	2	0	0	0	2	0	0
2273:	0	1	0	1	0	1	0	1
2281:	0	0	0	1	0	0	1	0
2289:	0	0	1	2	0	1	0	0
2297:	1	1	1	0	2	0	0	1
2305:	1	0	1	0	0	0	0	1
2313:	1	1	1	0	0	1	0	0
2321:	1	0	0	0	2	0	0	0
2329:	0	0	0	0	1	1	2	0
2337:	0	0	0	1	3	1	0	1
2345:	1	2	0	0	1	0	0	0
2353:	0	0	0	1	0	1	1	0
2361:	0	1	1	0	0	1	0	0
2369:	0	0	0	0	1	0	3	0
2377:	0	0	1	0	0	0	1	0
2385:	0	0	1	0	1	0	0	0
2393:	0	0	1	0	0	0	2	1
2401:	1	0	1	1	0	0	0	0
2409:	0	0	0	0	2	0	1	1
2417:	0	0	0	0	0	0	0	0
2425:	0	0	0	0	0	1	1	1
2433:	1	0	1	0	1	0	1	0
2441:	1	0	0	0	1	2	3	1
2449:	1	1	0	0	0	2	0	0
2457:	0	0	0	1	0	0	2	0
2465:	1	0	0	2	0	0	0	0
2473:	0	0	1	1	0	1	0	0
2481:	1	0	0	0	1	0	0	0
2489:	0	0	0	0	2	0	0	0
2497:	1	0	0	0	0	1	0	0
2505:	0	0	0	0	0	2	0	0
2513:	2	1	0	1	0	0	0	0
2521:	0	0	0	1	0	0	0	0

2529:	0	0	0	0	1	0	0	0

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Channel								
2537:	0	0	0	0	0	0	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	0	0	0	0	1	0	0
2569:	0	0	0	0	0	0	0	0
2577:	0	0	1	1	0	0	0	0
2585:	0	0	0	1	0	0	0	0
2593:	0	0	1	0	0	0	0	0
2601:	0	0	0	1	0	0	1	1
2609:	0	0	0	0	1	1	3	7
2617:	8	1	0	0	0	1	0	0
2625:	0	0	1	0	0	0	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	1	0	0	0	0	0
2657:	0	0	0	0	1	1	0	0
2665:	1	1	0	0	1	0	0	1
2673:	0	0	0	0	0	1	1	0
2681:	0	1	1	0	0	1	0	0
2689:	1	0	0	0	0	0	0	0
2697:	0	1	0	0	0	2	0	0
2705:	1	0	0	0	0	0	0	0
2713:	0	1	0	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	1	0
2737:	1	0	0	0	1	0	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	1	0	0	0	0	0
2761:	1	1	0	0	0	0	0	0
2769:	1	0	0	0	0	0	0	0
2777:	0	0	1	1	0	0	0	0
2785:	0	0	1	0	1	0	0	1
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	0	1	1	0	1
2809:	0	1	1	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	1	0	0	1	0	0	1
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	1	0	1	0	0	0	0
2873:	0	0	1	0	0	1	0	0
2881:	0	0	0	0	0	0	0	1
2889:	0	0	0	0	1	0	0	0
2897:	0	0	0	1	0	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	1	0
2937:	1	0	0	0	0	0	0	1
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	1	0	0	0

2961:	0	2	0	0	0	0	0	0

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Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	1	1	0	1	0	0
2993:	0	0	0	0	0	0	0	1
3001:	0	0	0	0	0	1	0	0
3009:	0	1	1	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	1	0	0	0
3041:	0	0	0	0	1	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	1
3065:	0	0	0	1	0	0	0	1
3073:	0	0	1	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	1	0	0	1	0
3105:	0	0	0	1	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	1	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	1	0
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	1	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	1	0	0	0	1
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	1	0
3193:	0	0	0	0	0	1	0	0
3201:	0	0	0	0	0	0	0	1
3209:	0	0	0	0	1	0	0	0
3217:	0	0	0	0	0	0	1	0
3225:	0	0	0	0	1	0	0	1
3233:	0	0	0	0	1	0	0	0
3241:	0	0	0	0	1	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	1	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	1	0	0
3281:	0	0	0	0	0	0	0	1
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	1	0
3305:	0	0	0	1	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	1	0	0	0	0	0	0	0
3337:	0	0	0	1	0	0	1	0
3345:	1	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	1	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	1
3385:	0	0	0	0	1	0	0	0

3393:	0	1	0	1	0	0	0	0

Sample Title: FEEBRIS1D-7 093-094

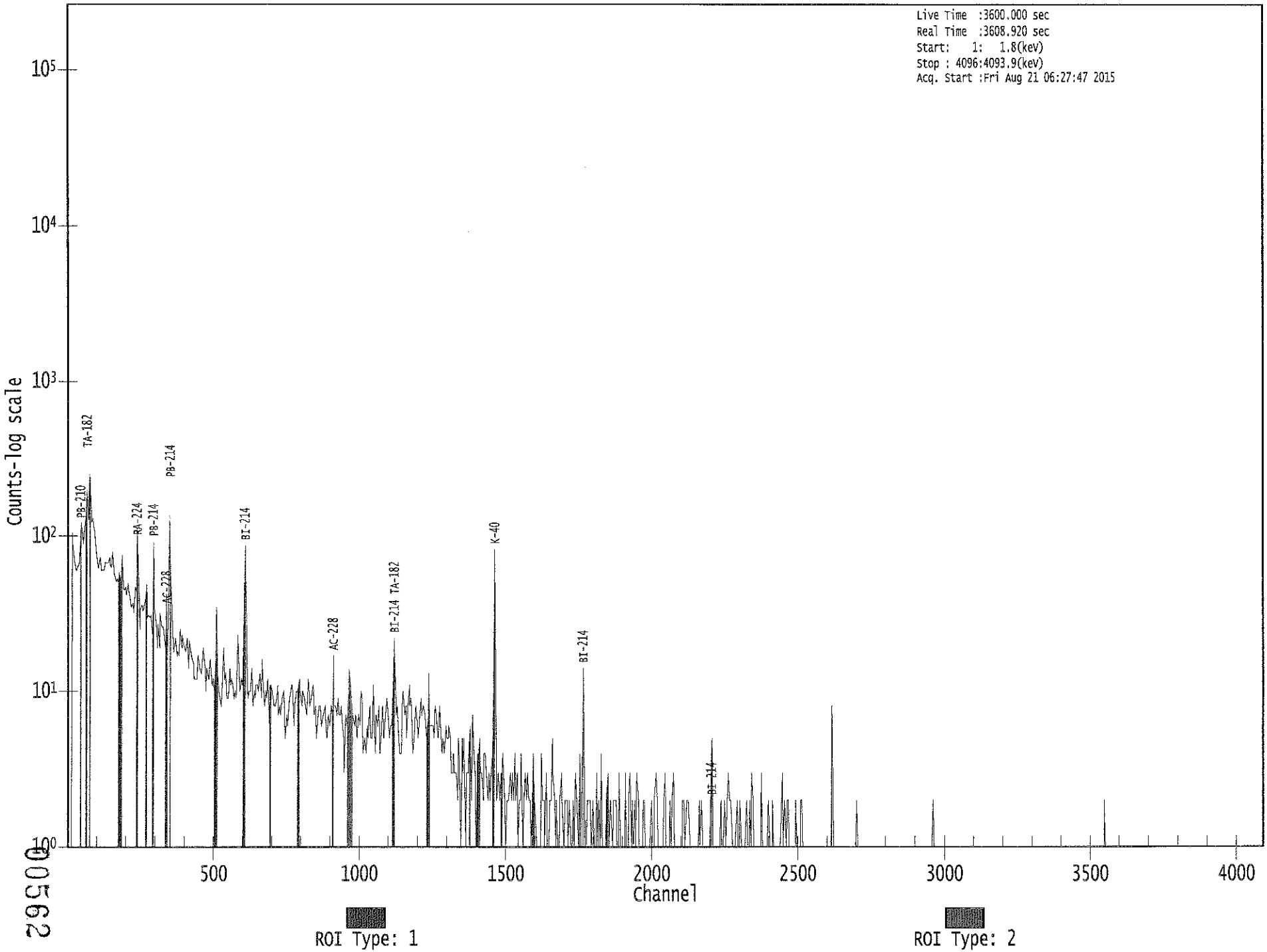
Channel								
3401:	0	0	0	0	1	0	0	0
3409:	0	0	0	0	0	0	0	1
3417:	1	0	0	0	0	0	0	0
3425:	0	1	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	0	0	0	1	0	0	0	0
3473:	0	1	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	1
3505:	0	0	0	1	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	1
3545:	0	0	0	1	2	0	1	0
3553:	0	0	0	0	0	0	0	0
3561:	0	1	0	0	0	0	0	0
3569:	1	0	0	0	0	0	0	0
3577:	0	0	1	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	1	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	1	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	1	0	0	0	0
3633:	0	0	0	0	0	0	0	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	1	0
3673:	0	1	0	0	1	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	1	0	0	0
3705:	0	0	1	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	1	0	0	0	0	0
3737:	0	1	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	1	0	0	0	0
3761:	1	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	1	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	1	0	0
3809:	1	0	0	0	0	0	0	0
3817:	0	0	0	1	0	0	0	1

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-7 093-094

Channel								
3833:	0	0	0	0	0	0	1	1
3841:	0	0	0	0	0	1	0	1
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	1	0	1
3889:	0	0	0	0	1	0	0	0
3897:	1	0	0	0	0	0	0	0
3905:	0	0	0	1	0	0	0	0
3913:	0	0	0	1	1	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	1	0	0	1	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	1	0	0
3961:	0	0	1	1	0	1	0	0
3969:	0	1	0	0	0	0	0	0
3977:	0	1	0	0	0	1	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	1	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	1	0	0	0	0
4025:	0	1	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	1	0
4073:	0	0	1	0	0	1	1	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026227.CNF



29500

Apex-Gamma

Analysis Report for 1507182-09
FEEBRIS1D-16 050-051

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-09
Sample Description	: FEEBRIS1D-16 050-051
Sample Type	: SOIL
Sample Size	: 2.586E+02 grams
Facility	: Countroom
Sample Taken On	: 7/27/2015 6:47:04AM
Acquisition Started	: 8/21/2015 8:19:23AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3604.2 seconds
Dead Time	: 0.12 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 6 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26239

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 9:19:38AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	27.48	27.59	0.0000	0.00
2	32.17	32.28	0.0000	0.00
3	46.74	46.85	0.0000	0.00
4	50.11	50.21	0.0000	0.00
5	67.86	67.95	0.0000	0.00
6	75.12	75.21	0.0000	0.00
7	80.91	80.99	0.0000	0.00
8	83.71	83.79	0.0000	0.00
9	87.71	87.79	0.0000	0.00
10	95.12	95.19	0.0000	0.00
11	112.94	113.01	0.0000	0.00
12	122.68	122.74	0.0000	0.00
13	143.95	144.00	0.0000	0.00
14	154.24	154.28	0.0000	0.00
15	159.25	159.29	0.0000	0.00
16	183.34	183.36	0.0000	0.00
17	186.34	186.37	0.0000	0.00
18	210.88	210.90	0.0000	0.00
19	236.13	236.13	0.0000	0.00
20	239.13	239.13	0.0000	0.00
21	242.08	242.07	0.0000	0.00
22	255.25	255.24	0.0000	0.00
23	257.77	257.76	0.0000	0.00
24	270.60	270.58	0.0000	0.00
25	285.45	285.42	0.0000	0.00
26	295.38	295.34	0.0000	0.00
27	300.21	300.17	0.0000	0.00
28	303.22	303.18	0.0000	0.00
29	314.27	314.22	0.0000	0.00
30	324.03	323.98	0.0000	0.00
31	329.75	329.70	0.0000	0.00
32	338.50	338.45	0.0000	0.00
33	351.98	351.92	0.0000	0.00
34	401.94	401.85	0.0000	0.00
35	405.24	405.15	0.0000	0.00
36	427.76	427.66	0.0000	0.00
37	445.16	445.04	0.0000	0.00
38	462.11	461.99	0.0000	0.00
39	480.43	480.30	0.0000	0.00
40	487.37	487.23	0.0000	0.00
41	510.63	510.48	0.0000	0.00
42	538.73	538.57	0.0000	0.00

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Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	580.29	580.11	0.0000	0.00
44	609.48	609.29	0.0000	0.00
45	665.65	665.43	0.0000	0.00
46	719.88	719.63	0.0000	0.00
47	761.08	760.82	0.0000	0.00
48	768.44	768.18	0.0000	0.00
49	786.19	785.92	0.0000	0.00
50	806.28	806.00	0.0000	0.00
51	832.16	831.87	0.0000	0.00
52	839.46	839.16	0.0000	0.00
53	854.56	854.26	0.0000	0.00
54	907.95	907.62	0.0000	0.00
55	911.73	911.40	0.0000	0.00
56	934.21	933.87	0.0000	0.00
57	1052.59	1052.21	0.0000	0.00
58	1079.63	1079.24	0.0000	0.00
59	1120.61	1120.21	0.0000	0.00
60	1155.48	1155.06	0.0000	0.00
61	1208.14	1207.70	0.0000	0.00
62	1234.45	1234.00	0.0000	0.00
63	1238.60	1238.15	0.0000	0.00
64	1255.35	1254.89	0.0000	0.00
65	1281.29	1280.82	0.0000	0.00
66	1377.88	1377.38	0.0000	0.00
67	1385.66	1385.17	0.0000	0.00
68	1401.63	1401.13	0.0000	0.00
69	1408.25	1407.74	0.0000	0.00
70	1448.64	1448.13	0.0000	0.00
71	1461.46	1460.93	0.0000	0.00
72	1470.36	1469.84	0.0000	0.00
73	1509.50	1508.96	0.0000	0.00
74	1524.50	1523.96	0.0000	0.00
75	1543.66	1543.11	0.0000	0.00
76	1583.47	1582.92	0.0000	0.00
77	1600.45	1599.89	0.0000	0.00
78	1655.98	1655.41	0.0000	0.00
79	1662.09	1661.51	0.0000	0.00
80	1729.98	1729.38	0.0000	0.00
81	1764.78	1764.17	0.0000	0.00
82	1847.46	1846.83	0.0000	0.00
83	1874.70	1874.07	0.0000	0.00
84	1940.52	1939.88	0.0000	0.00
85	2009.23	2008.57	0.0000	0.00
86	2017.25	2016.59	0.0000	0.00
87	2053.43	2052.76	0.0000	0.00
88	2119.04	2118.36	0.0000	0.00
89	2181.81	2181.12	0.0000	0.00
90	2204.21	2203.52	0.0000	0.00
91	2293.23	2292.53	0.0000	0.00
92	2447.65	2446.93	0.0000	0.00
93	2614.65	2613.91	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 9:19:38AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	27.48	26 -	30	27.59	1.34E+02	117.36	2.93E+03	1.64
	2	32.17	31 -	34	32.28	2.00E+02	99.06	2.25E+03	1.66
M	3	46.74	43 -	52	46.85	1.27E+03	130.11	2.89E+03	1.21
m	4	50.11	43 -	52	50.21	3.25E+02	116.24	3.07E+03	1.21
	5	67.86	65 -	71	67.95	3.74E+03	252.23	8.80E+03	1.22
M	6	75.12	72 -	91	75.21	2.41E+03	165.71	4.63E+03	1.21
m	7	80.91	72 -	91	80.99	9.60E+02	154.22	4.18E+03	1.21
m	8	83.71	72 -	91	83.79	2.07E+03	163.83	4.01E+03	1.21
m	9	87.71	72 -	91	87.79	7.61E+02	147.36	3.81E+03	1.22
	10	95.12	92 -	99	95.19	9.73E+02	204.51	6.21E+03	1.47
	11	112.94	111 -	115	113.01	1.54E+02	116.53	2.88E+03	2.10
	12	122.68	121 -	125	122.74	1.65E+02	114.12	2.75E+03	2.38
	13	143.95	140 -	148	144.00	9.58E+02	203.63	5.80E+03	1.41
	14	154.24	151 -	158	154.28	4.05E+02	181.95	5.26E+03	1.64
	15	159.25	158 -	161	159.29	1.11E+02	99.10	2.33E+03	1.23
M	16	183.34	182 -	190	183.36	8.44E+01	92.84	2.03E+03	1.22
m	17	186.34	182 -	190	186.37	1.53E+03	132.43	2.53E+03	1.60
	18	210.88	208 -	214	210.90	1.27E+02	127.60	2.86E+03	1.18
M	19	236.13	232 -	246	236.13	8.77E+02	94.28	1.35E+03	1.41
m	20	239.13	232 -	246	239.13	1.76E+02	82.49	1.28E+03	1.41
m	21	242.08	232 -	246	242.07	1.92E+03	113.79	1.20E+03	1.42
M	22	255.25	252 -	261	255.24	4.54E+02	108.08	1.92E+03	2.54
m	23	257.77	252 -	261	257.76	3.77E+02	132.77	2.51E+03	2.56
	24	270.60	266 -	276	270.58	1.63E+03	171.31	3.04E+03	3.16
	25	285.45	281 -	289	285.42	1.75E+02	126.28	2.33E+03	3.93
M	26	295.38	291 -	307	295.34	4.27E+03	143.15	9.46E+02	1.44
m	27	300.21	291 -	307	300.17	3.41E+02	80.22	1.09E+03	1.82
m	28	303.22	291 -	307	303.18	1.65E+02	83.23	1.07E+03	1.83
	29	314.27	311 -	318	314.22	1.04E+02	102.20	1.67E+03	3.36
	30	324.03	321 -	326	323.98	2.17E+02	82.95	1.20E+03	1.29
	31	329.75	327 -	332	329.70	2.46E+02	85.36	1.27E+03	1.34
	32	338.50	335 -	342	338.45	8.85E+01	109.31	1.92E+03	1.70
	33	351.98	348 -	356	351.92	7.89E+03	205.10	1.61E+03	1.46
M	34	401.94	398 -	410	401.85	3.14E+02	68.95	8.15E+02	1.64
m	35	405.24	398 -	410	405.15	2.75E+02	66.95	7.83E+02	1.64
	36	427.76	424 -	433	427.66	1.08E+02	105.24	1.47E+03	2.02
	37	445.16	441 -	449	445.04	1.02E+02	82.18	9.77E+02	1.92
	38	462.11	459 -	465	461.99	6.25E+01	64.14	7.01E+02	2.51
	39	480.43	478 -	484	480.30	9.44E+01	62.46	6.47E+02	2.23
	40	487.37	484 -	490	487.23	1.03E+02	61.22	6.02E+02	1.51

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	510.63	505	516	510.48	2.26E+02	92.69	9.65E+02	2.32
	42	538.73	536	541	538.57	6.45E+01	47.24	3.93E+02	3.66
M	43	580.29	578	586	580.11	6.33E+01	35.72	2.53E+02	1.84
	44	609.48	604	613	609.29	5.38E+03	163.97	7.67E+02	1.77
	45	665.65	662	670	665.43	1.87E+02	59.43	4.30E+02	1.96
	46	719.88	715	724	719.63	5.35E+01	64.34	5.63E+02	2.55
M	47	761.08	757	773	760.82	4.13E+01	38.26	2.32E+02	2.02
m	48	768.44	757	773	768.18	5.24E+02	58.89	2.70E+02	2.02
	49	786.19	782	791	785.92	1.52E+02	59.04	4.13E+02	2.55
	50	806.28	801	808	806.00	7.79E+01	54.11	4.36E+02	1.67
	51	832.16	828	835	831.87	1.26E+02	51.34	3.45E+02	2.68
	52	839.46	836	843	839.16	1.13E+02	47.29	3.00E+02	1.66
	53	854.56	852	857	854.26	3.70E+01	37.92	2.58E+02	3.38
M	54	907.95	906	916	907.62	3.17E+01	23.16	1.37E+02	2.21
m	55	911.73	906	916	911.40	6.51E+01	44.75	3.10E+02	2.27
	56	934.21	929	939	933.87	2.74E+02	67.56	4.64E+02	1.83
	57	1052.59	1046	1057	1052.21	5.60E+01	56.99	3.60E+02	2.14
	58	1079.63	1075	1082	1079.24	3.35E+01	37.79	2.15E+02	2.74
	59	1120.61	1115	1125	1120.21	1.09E+03	86.20	4.06E+02	2.07
	60	1155.48	1151	1160	1155.06	1.72E+02	52.56	3.00E+02	2.39
	61	1208.14	1204	1211	1207.70	4.28E+01	36.06	1.88E+02	2.34
M	62	1234.45	1233	1242	1234.00	2.04E+01	14.97	5.46E+01	2.17
m	63	1238.60	1233	1242	1238.15	4.30E+02	50.50	1.46E+02	2.20
	64	1255.35	1251	1260	1254.89	3.45E+01	38.24	1.87E+02	2.06
	65	1281.29	1276	1284	1280.82	9.81E+01	40.58	1.92E+02	1.58
M	66	1377.88	1374	1390	1377.38	3.23E+02	43.68	1.16E+02	2.18
m	67	1385.66	1374	1390	1385.17	6.88E+01	40.40	1.60E+02	4.42
M	68	1401.63	1396	1414	1401.13	8.28E+01	38.43	1.71E+02	2.86
m	69	1408.25	1396	1414	1407.74	1.78E+02	38.99	1.38E+02	2.68
	70	1448.64	1444	1452	1448.13	4.15E+01	31.35	1.25E+02	5.27
	71	1461.46	1456	1467	1460.93	1.67E+02	50.16	2.21E+02	2.58
	72	1470.36	1467	1473	1469.84	2.15E+01	25.76	1.05E+02	1.85
	73	1509.50	1505	1513	1508.96	1.40E+02	41.69	1.83E+02	1.76
	74	1524.50	1519	1529	1523.96	4.87E+01	40.01	1.89E+02	2.11
	75	1543.66	1541	1545	1543.11	2.30E+01	25.23	1.16E+02	2.75
	76	1583.47	1578	1587	1582.92	5.68E+01	35.75	1.50E+02	1.82
	77	1600.45	1597	1603	1599.89	2.58E+01	26.68	1.08E+02	1.86
M	78	1655.98	1653	1667	1655.41	1.42E+01	13.08	3.39E+01	2.93
m	79	1662.09	1653	1667	1661.51	7.55E+01	25.59	5.27E+01	2.94
	80	1729.98	1722	1736	1729.38	2.18E+02	40.63	7.92E+01	2.99
	81	1764.78	1757	1770	1764.17	9.41E+02	66.29	7.00E+01	2.47
	82	1847.46	1842	1854	1846.83	1.17E+02	35.38	9.62E+01	2.99
	83	1874.70	1868	1881	1874.07	2.82E+01	25.94	5.96E+01	9.24
	84	1940.52	1930	1951	1939.88	4.12E+01	34.10	7.57E+01	12.38
	85	2009.23	2005	2012	2008.57	1.47E+01	13.42	2.05E+01	1.78
	86	2017.25	2013	2019	2016.59	1.63E+01	11.87	1.33E+01	1.13
	87	2053.43	2049	2056	2052.76	1.40E+01	10.20	8.00E+00	1.83
	88	2119.04	2113	2124	2118.36	7.30E+01	22.00	2.40E+01	2.21
	89	2181.81	2177	2184	2181.12	7.00E+00	8.72	8.00E+00	4.28
	90	2204.21	2196	2208	2203.52	2.62E+02	34.80	1.85E+01	3.24
	91	2293.23	2288	2297	2292.53	1.54E+01	9.85	5.28E+00	2.25
	92	2447.65	2441	2452	2446.93	8.20E+01	18.11	0.00E+00	2.44
	93	2614.65	2609	2618	2613.91	3.20E+01	11.31	0.00E+00	3.00

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 9:19:38AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	27.48	26 -	30	1.34E+02	117.36	2.93E+03	9.46E+01
	2	32.17	31 -	34	2.00E+02	99.06	2.25E+03	7.80E+01
M	3	46.74	43 -	52	1.27E+03	130.11	2.89E+03	8.84E+01
m	4	50.11	43 -	52	3.25E+02	116.24	3.07E+03	9.11E+01
	5	67.86	65 -	71	3.74E+03	252.23	8.80E+03	1.81E+02
M	6	75.12	72 -	91	2.41E+03	165.71	4.63E+03	1.12E+02
m	7	80.91	72 -	91	9.60E+02	154.22	4.18E+03	1.06E+02
m	8	83.71	72 -	91	2.07E+03	163.83	4.01E+03	1.04E+02
m	9	87.71	72 -	91	7.61E+02	147.36	3.81E+03	1.02E+02
	10	95.12	92 -	99	9.73E+02	204.51	6.21E+03	1.60E+02
	11	112.94	111 -	115	1.54E+02	116.53	2.88E+03	9.36E+01
	12	122.68	121 -	125	1.65E+02	114.12	2.75E+03	9.14E+01
	13	143.95	140 -	148	9.58E+02	203.63	5.80E+03	1.59E+02
	14	154.24	151 -	158	4.05E+02	181.95	5.26E+03	1.46E+02
	15	159.25	158 -	161	1.11E+02	99.10	2.33E+03	7.96E+01
M	16	183.34	182 -	190	8.44E+01	92.84	2.03E+03	7.40E+01
m	17	186.34	182 -	190	1.53E+03	132.43	2.53E+03	8.27E+01
	18	210.88	208 -	214	1.27E+02	127.60	2.86E+03	1.03E+02
M	19	236.13	232 -	246	8.77E+02	94.28	1.35E+03	6.03E+01
m	20	239.13	232 -	246	1.76E+02	82.49	1.28E+03	5.89E+01
m	21	242.08	232 -	246	1.92E+03	113.79	1.20E+03	5.69E+01
M	22	255.25	252 -	261	4.54E+02	108.08	1.92E+03	7.20E+01
m	23	257.77	252 -	261	3.77E+02	132.77	2.51E+03	8.23E+01
	24	270.60	266 -	276	1.63E+03	171.31	3.04E+03	1.24E+02
	25	285.45	281 -	289	1.75E+02	126.28	2.33E+03	1.02E+02
M	26	295.38	291 -	307	4.27E+03	143.15	9.46E+02	5.06E+01
m	27	300.21	291 -	307	3.41E+02	80.22	1.09E+03	5.42E+01
m	28	303.22	291 -	307	1.65E+02	83.23	1.07E+03	5.37E+01
	29	314.27	311 -	318	1.04E+02	102.20	1.67E+03	8.23E+01
	30	324.03	321 -	326	2.17E+02	82.95	1.20E+03	6.37E+01
	31	329.75	327 -	332	2.46E+02	85.36	1.27E+03	6.53E+01

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	32	338.50	335 -	342	8.85E+01	109.31	1.92E+03	8.85E+01
	33	351.98	348 -	356	7.89E+03	205.10	1.61E+03	8.42E+01
M	34	401.94	398 -	410	3.14E+02	68.95	8.15E+02	4.69E+01
m	35	405.24	398 -	410	2.75E+02	66.95	7.83E+02	4.60E+01
	36	427.76	424 -	433	1.08E+02	105.24	1.47E+03	8.48E+01
	37	445.16	441 -	449	1.02E+02	82.18	9.77E+02	6.55E+01
	38	462.11	459 -	465	6.25E+01	64.14	7.01E+02	5.11E+01
	39	480.43	478 -	484	9.44E+01	62.46	6.47E+02	4.88E+01
	40	487.37	484 -	490	1.03E+02	61.22	6.02E+02	4.75E+01
	41	510.63	505 -	516	2.26E+02	92.69	9.65E+02	7.21E+01
	42	538.73	536 -	541	6.45E+01	47.24	3.93E+02	3.65E+01
M	43	580.29	578 -	586	6.33E+01	35.72	2.53E+02	2.62E+01
	44	609.48	604 -	613	5.38E+03	163.97	7.67E+02	6.02E+01
	45	665.65	662 -	670	1.87E+02	59.43	4.30E+02	4.34E+01
	46	719.88	715 -	724	5.35E+01	64.34	5.63E+02	5.15E+01
M	47	761.08	757 -	773	4.13E+01	38.26	2.32E+02	2.50E+01
m	48	768.44	757 -	773	5.24E+02	58.89	2.70E+02	2.70E+01
	49	786.19	782 -	791	1.52E+02	59.04	4.13E+02	4.41E+01
	50	806.28	801 -	808	7.79E+01	54.11	4.36E+02	4.20E+01
	51	832.16	828 -	835	1.26E+02	51.34	3.45E+02	3.79E+01
	52	839.46	836 -	843	1.13E+02	47.29	3.00E+02	3.47E+01
	53	854.56	852 -	857	3.70E+01	37.92	2.58E+02	2.95E+01
M	54	907.95	906 -	916	3.17E+01	23.16	1.37E+02	1.92E+01
m	55	911.73	906 -	916	6.51E+01	44.75	3.10E+02	2.89E+01
	56	934.21	929 -	939	2.74E+02	67.56	4.64E+02	4.84E+01
	57	1052.59	1046 -	1057	5.60E+01	56.99	3.60E+02	4.52E+01
	58	1079.63	1075 -	1082	3.35E+01	37.79	2.15E+02	2.96E+01
	59	1120.61	1115 -	1125	1.09E+03	86.20	4.06E+02	4.54E+01
	60	1155.48	1151 -	1160	1.72E+02	52.56	3.00E+02	3.74E+01
	61	1208.14	1204 -	1211	4.28E+01	36.06	1.88E+02	2.76E+01
M	62	1234.45	1233 -	1242	2.04E+01	14.97	5.46E+01	1.21E+01
m	63	1238.60	1233 -	1242	4.30E+02	50.50	1.46E+02	1.98E+01
	64	1255.35	1251 -	1260	3.45E+01	38.24	1.87E+02	2.99E+01
	65	1281.29	1276 -	1284	9.81E+01	40.58	1.92E+02	2.91E+01
M	66	1377.88	1374 -	1390	3.23E+02	43.68	1.16E+02	1.77E+01
m	67	1385.66	1374 -	1390	6.88E+01	40.40	1.60E+02	2.08E+01
M	68	1401.63	1396 -	1414	8.28E+01	38.43	1.71E+02	2.15E+01
m	69	1408.25	1396 -	1414	1.78E+02	38.99	1.38E+02	1.93E+01
	70	1448.64	1444 -	1452	4.15E+01	31.35	1.25E+02	2.35E+01
	71	1461.46	1456 -	1467	1.67E+02	50.16	2.21E+02	3.53E+01
	72	1470.36	1467 -	1473	2.15E+01	25.76	1.05E+02	1.98E+01
	73	1509.50	1505 -	1513	1.40E+02	41.69	1.83E+02	2.82E+01
	74	1524.50	1519 -	1529	4.87E+01	40.01	1.89E+02	3.08E+01
	75	1543.66	1541 -	1545	2.30E+01	25.23	1.16E+02	1.92E+01
	76	1583.47	1578 -	1587	5.68E+01	35.75	1.50E+02	2.66E+01
	77	1600.45	1597 -	1603	2.58E+01	26.68	1.08E+02	2.03E+01
M	78	1655.98	1653 -	1667	1.42E+01	13.08	3.39E+01	9.57E+00
m	79	1662.09	1653 -	1667	7.55E+01	25.59	5.27E+01	1.19E+01
	80	1729.98	1722 -	1736	2.18E+02	40.63	7.92E+01	2.29E+01
	81	1764.78	1757 -	1770	9.41E+02	66.29	7.00E+01	2.06E+01
	82	1847.46	1842 -	1854	1.17E+02	35.38	9.62E+01	2.30E+01

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
83	1874.70	1868 -	1881	2.82E+01	25.94	5.96E+01	1.95E+01
84	1940.52	1930 -	1951	4.12E+01	34.10	7.57E+01	2.60E+01
85	2009.23	2005 -	2012	1.47E+01	13.42	2.05E+01	9.04E+00
86	2017.25	2013 -	2019	1.63E+01	11.87	1.33E+01	7.15E+00
87	2053.43	2049 -	2056	1.40E+01	10.20	8.00E+00	5.70E+00
88	2119.04	2113 -	2124	7.30E+01	22.00	2.40E+01	1.14E+01
89	2181.81	2177 -	2184	7.00E+00	8.72	8.00E+00	5.70E+00
90	2204.21	2196 -	2208	2.62E+02	34.80	1.85E+01	1.05E+01
91	2293.23	2288 -	2297	1.54E+01	9.85	5.28E+00	4.90E+00
92	2447.65	2441 -	2452	8.20E+01	18.11	0.00E+00	0.00E+00
93	2614.65	2609 -	2618	3.20E+01	11.31	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 9:19:38AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	27.48	26 -	30	27.59	1.34E+02	117.36	2.93E+03	.....
	2	32.17	31 -	34	32.28	2.00E+02	99.06	2.25E+03	.....
M	3	46.74	43 -	52	46.85	1.27E+03	130.11	2.89E+03	PB-210
m	4	50.11	43 -	52	50.21	3.25E+02	116.24	3.07E+03	TH-227
									TE-132
	5	67.86	65 -	71	67.95	3.74E+03	252.23	8.80E+03	TI-44
									TA-182
									TH-230
M	6	75.12	72 -	91	75.21	2.41E+03	165.71	4.63E+03	AM-243
m	7	80.91	72 -	91	80.99	9.60E+02	154.22	4.18E+03	XE-133
									BA-133
									HF-172
m	8	83.71	72 -	91	83.79	2.07E+03	163.83	4.01E+03	TH-231
m	9	87.71	72 -	91	87.79	7.61E+02	147.36	3.81E+03	SN-126
									CD-109

00570

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									LU-176
	10	95.12	92 -	99	95.19	9.73E+02	204.51	6.21E+03	.....
	11	112.94	111 -	115	113.01	1.54E+02	116.53	2.88E+03	.....
	12	122.68	121 -	125	122.74	1.65E+02	114.12	2.75E+03	EU-154
									CO-57
									EU-152
	13	143.95	140 -	148	144.00	9.58E+02	203.63	5.80E+03	U-235
	14	154.24	151 -	158	154.28	4.05E+02	181.95	5.26E+03	.....
	15	159.25	158 -	161	159.29	1.11E+02	99.10	2.33E+03	TE123M
M	16	183.34	182 -	190	183.36	8.44E+01	92.84	2.03E+03	.....
m	17	186.34	182 -	190	186.37	1.53E+03	132.43	2.53E+03	RA-226
	18	210.88	208 -	214	210.90	1.27E+02	127.60	2.86E+03	.....
M	19	236.13	232 -	246	236.13	8.77E+02	94.28	1.35E+03	TH-227
									NB-95M
m	20	239.13	232 -	246	239.13	1.76E+02	82.49	1.28E+03	PB-212
m	21	242.08	232 -	246	242.07	1.92E+03	113.79	1.20E+03	.....
M	22	255.25	252 -	261	255.24	4.54E+02	108.08	1.92E+03	SN-113
									TH-227
m	23	257.77	252 -	261	257.76	3.77E+02	132.77	2.51E+03	.....
	24	270.60	266 -	276	270.58	1.63E+03	171.31	3.04E+03	.....
	25	285.45	281 -	289	285.42	1.75E+02	126.28	2.33E+03	PM-149
M	26	295.38	291 -	307	295.34	4.27E+03	143.15	9.46E+02	PB-214
m	27	300.21	291 -	307	300.17	3.41E+02	80.22	1.09E+03	GA-67
									PB-212
									BI-210M
m	28	303.22	291 -	307	303.18	1.65E+02	83.23	1.07E+03	BA-133
									PA-231
	29	314.27	311 -	318	314.22	1.04E+02	102.20	1.67E+03	.....
	30	324.03	321 -	326	323.98	2.17E+02	82.95	1.20E+03	RA-223
	31	329.75	327 -	332	329.70	2.46E+02	85.36	1.27E+03	LA-140
	32	338.50	335 -	342	338.45	8.85E+01	109.31	1.92E+03	AC-228
	33	351.98	348 -	356	351.92	7.89E+03	205.10	1.61E+03	PB-214
M	34	401.94	398 -	410	401.85	3.14E+02	68.95	8.15E+02	RN-219
m	35	405.24	398 -	410	405.15	2.75E+02	66.95	7.83E+02	PB-211
	36	427.76	424 -	433	427.66	1.08E+02	105.24	1.47E+03	SB-125
	37	445.16	441 -	449	445.04	1.02E+02	82.18	9.77E+02	.....
	38	462.11	459 -	465	461.99	6.25E+01	64.14	7.01E+02	.....
	39	480.43	478 -	484	480.30	9.44E+01	62.46	6.47E+02	.....
	40	487.37	484 -	490	487.23	1.03E+02	61.22	6.02E+02	LA-140
	41	510.63	505 -	516	510.48	2.26E+02	92.69	9.65E+02	.....
	42	538.73	536 -	541	538.57	6.45E+01	47.24	3.93E+02	.....
M	43	580.29	578 -	586	580.11	6.33E+01	35.72	2.53E+02	.....
	44	609.48	604 -	613	609.29	5.38E+03	163.97	7.67E+02	BI-214
	45	665.65	662 -	670	665.43	1.87E+02	59.43	4.30E+02	SB-126
	46	719.88	715 -	724	719.63	5.35E+01	64.34	5.63E+02	SB-126
M	47	761.08	757 -	773	760.82	4.13E+01	38.26	2.32E+02	.....
m	48	768.44	757 -	773	768.18	5.24E+02	58.89	2.70E+02	.....
	49	786.19	782 -	791	785.92	1.52E+02	59.04	4.13E+02	.....
	50	806.28	801 -	808	806.00	7.79E+01	54.11	4.36E+02	.....
	51	832.16	828 -	835	831.87	1.26E+02	51.34	3.45E+02	PB-211
	52	839.46	836 -	843	839.16	1.13E+02	47.29	3.00E+02	.....
	53	854.56	852 -	857	854.26	3.70E+01	37.92	2.58E+02	.....
M	54	907.95	906 -	916	907.62	3.17E+01	23.16	1.37E+02	.....
m	55	911.73	906 -	916	911.40	6.51E+01	44.75	3.10E+02	LU-172

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									AC-228
	56	934.21	929 -	939	933.87	2.74E+02	67.56	4.64E+02	.....
	57	1052.59	1046 -	1057	1052.21	5.60E+01	56.99	3.60E+02	.....
	58	1079.63	1075 -	1082	1079.24	3.35E+01	37.79	2.15E+02	.....
	59	1120.61	1115 -	1125	1120.21	1.09E+03	86.20	4.06E+02	SC-46
									BI-214
									TA-182
	60	1155.48	1151 -	1160	1155.06	1.72E+02	52.56	3.00E+02	.....
	61	1208.14	1204 -	1211	1207.70	4.28E+01	36.06	1.88E+02	.....
M	62	1234.45	1233 -	1242	1234.00	2.04E+01	14.97	5.46E+01	CS-136
m	63	1238.60	1233 -	1242	1238.15	4.30E+02	50.50	1.46E+02	CO-56
	64	1255.35	1251 -	1260	1254.89	3.45E+01	38.24	1.87E+02	.....
	65	1281.29	1276 -	1284	1280.82	9.81E+01	40.58	1.92E+02	.....
M	66	1377.88	1374 -	1390	1377.38	3.23E+02	43.68	1.16E+02	.....
m	67	1385.66	1374 -	1390	1385.17	6.88E+01	40.40	1.60E+02	.....
M	68	1401.63	1396 -	1414	1401.13	8.28E+01	38.43	1.71E+02	.....
m	69	1408.25	1396 -	1414	1407.74	1.78E+02	38.99	1.38E+02	EU-152
	70	1448.64	1444 -	1452	1448.13	4.15E+01	31.35	1.25E+02	.....
	71	1461.46	1456 -	1467	1460.93	1.67E+02	50.16	2.21E+02	K-40
	72	1470.36	1467 -	1473	1469.84	2.15E+01	25.76	1.05E+02	.....
	73	1509.50	1505 -	1513	1508.96	1.40E+02	41.69	1.83E+02	.....
	74	1524.50	1519 -	1529	1523.96	4.87E+01	40.01	1.89E+02	.....
	75	1543.66	1541 -	1545	1543.11	2.30E+01	25.23	1.16E+02	.....
	76	1583.47	1578 -	1587	1582.92	5.68E+01	35.75	1.50E+02	.....
	77	1600.45	1597 -	1603	1599.89	2.58E+01	26.68	1.08E+02	.....
M	78	1655.98	1653 -	1667	1655.41	1.42E+01	13.08	3.39E+01	.....
m	79	1662.09	1653 -	1667	1661.51	7.55E+01	25.59	5.27E+01	.....
	80	1729.98	1722 -	1736	1729.38	2.18E+02	40.63	7.92E+01	.....
	81	1764.78	1757 -	1770	1764.17	9.41E+02	66.29	7.00E+01	BI-214
	82	1847.46	1842 -	1854	1846.83	1.17E+02	35.38	9.62E+01	.....
	83	1874.70	1868 -	1881	1874.07	2.82E+01	25.94	5.96E+01	.....
	84	1940.52	1930 -	1951	1939.88	4.12E+01	34.10	7.57E+01	.....
	85	2009.23	2005 -	2012	2008.57	1.47E+01	13.42	2.05E+01	.....
	86	2017.25	2013 -	2019	2016.59	1.63E+01	11.87	1.33E+01	.....
	87	2053.43	2049 -	2056	2052.76	1.40E+01	10.20	8.00E+00	.....
	88	2119.04	2113 -	2124	2118.36	7.30E+01	22.00	2.40E+01	.....
	89	2181.81	2177 -	2184	2181.12	7.00E+00	8.72	8.00E+00	.....
	90	2204.21	2196 -	2208	2203.52	2.62E+02	34.80	1.85E+01	BI-214
	91	2293.23	2288 -	2297	2292.53	1.54E+01	9.85	5.28E+00	.....
	92	2447.65	2441 -	2452	2446.93	8.20E+01	18.11	0.00E+00	.....
	93	2614.65	2609 -	2618	2613.91	3.20E+01	11.31	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

00572

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 9:19:38AM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	27.48	1.34E+02	117.36	9.74E-04	1.68E-03
	2	32.17	2.00E+02	99.06	2.85E-03	1.68E-03
M	3	46.74	1.27E+03	130.11	1.36E-02	1.68E-03
m	4	50.11	3.25E+02	116.24	1.61E-02	1.68E-03
	5	67.86	3.74E+03	252.23	2.54E-02	2.50E-03
M	6	75.12	2.41E+03	165.71	2.72E-02	3.22E-03
m	7	80.91	9.60E+02	154.22	2.80E-02	3.80E-03
m	8	83.71	2.07E+03	163.83	2.82E-02	4.08E-03
m	9	87.71	7.61E+02	147.36	2.84E-02	4.47E-03
	10	95.12	9.73E+02	204.51	2.85E-02	4.19E-03
	11	112.94	1.54E+02	116.53	2.75E-02	3.39E-03
	12	122.68	1.65E+02	114.12	2.66E-02	2.97E-03
	13	143.95	9.58E+02	203.63	2.46E-02	2.33E-03
	14	154.24	4.05E+02	181.95	2.37E-02	2.02E-03
	15	159.25	1.11E+02	99.10	2.32E-02	1.87E-03
M	16	183.34	8.44E+01	92.84	2.13E-02	1.66E-03
m	17	186.34	1.53E+03	132.43	2.11E-02	1.65E-03
	18	210.88	1.27E+02	127.60	1.94E-02	1.63E-03
M	19	236.13	8.77E+02	94.28	1.80E-02	1.60E-03
m	20	239.13	1.76E+02	82.49	1.78E-02	1.60E-03
m	21	242.08	1.92E+03	113.79	1.77E-02	1.60E-03
M	22	255.25	4.54E+02	108.08	1.71E-02	1.58E-03
m	23	257.77	3.77E+02	132.77	1.70E-02	1.58E-03
	24	270.60	1.63E+03	171.31	1.64E-02	1.57E-03
	25	285.45	1.75E+02	126.28	1.58E-02	1.53E-03
M	26	295.38	4.27E+03	143.15	1.55E-02	1.48E-03
m	27	300.21	3.41E+02	80.22	1.53E-02	1.46E-03
m	28	303.22	1.65E+02	83.23	1.52E-02	1.44E-03
	29	314.27	1.04E+02	102.20	1.48E-02	1.39E-03
	30	324.03	2.17E+02	82.95	1.45E-02	1.34E-03
	31	329.75	2.46E+02	85.36	1.43E-02	1.32E-03
	32	338.50	8.85E+01	109.31	1.41E-02	1.27E-03
	33	351.98	7.89E+03	205.10	1.37E-02	1.21E-03
M	34	401.94	3.14E+02	68.95	1.25E-02	1.01E-03
m	35	405.24	2.75E+02	66.95	1.24E-02	1.01E-03
	36	427.76	1.08E+02	105.24	1.20E-02	9.83E-04
	37	445.16	1.02E+02	82.18	1.17E-02	9.65E-04
	38	462.11	6.25E+01	64.14	1.14E-02	9.48E-04
	39	480.43	9.44E+01	62.46	1.10E-02	9.29E-04
	40	487.37	1.03E+02	61.22	1.09E-02	9.22E-04
	41	510.63	2.26E+02	92.69	1.06E-02	8.99E-04
	42	538.73	6.45E+01	47.24	1.02E-02	8.70E-04
M	43	580.29	6.33E+01	35.72	9.62E-03	8.28E-04
	44	609.48	5.38E+03	163.97	9.27E-03	7.98E-04
	45	665.65	1.87E+02	59.43	8.66E-03	7.43E-04

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	46	719.88	5.35E+01	64.34	8.15E-03	7.08E-04
M	47	761.08	4.13E+01	38.26	7.80E-03	6.81E-04
m	48	768.44	5.24E+02	58.89	7.74E-03	6.77E-04
	49	786.19	1.52E+02	59.04	7.60E-03	6.65E-04
	50	806.28	7.79E+01	54.11	7.45E-03	6.52E-04
	51	832.16	1.26E+02	51.34	7.26E-03	6.36E-04
	52	839.46	1.13E+02	47.29	7.21E-03	6.31E-04
	53	854.56	3.70E+01	37.92	7.11E-03	6.21E-04
M	54	907.95	3.17E+01	23.16	6.76E-03	5.88E-04
m	55	911.73	6.51E+01	44.75	6.74E-03	5.86E-04
	56	934.21	2.74E+02	67.56	6.61E-03	5.75E-04
	57	1052.59	5.60E+01	56.99	6.00E-03	5.14E-04
	58	1079.63	3.35E+01	37.79	5.88E-03	5.01E-04
	59	1120.61	1.09E+03	86.20	5.70E-03	4.80E-04
	60	1155.48	1.72E+02	52.56	5.56E-03	4.62E-04
	61	1208.14	4.28E+01	36.06	5.37E-03	4.69E-04
M	62	1234.45	2.04E+01	14.97	5.28E-03	4.81E-04
m	63	1238.60	4.30E+02	50.50	5.27E-03	4.83E-04
	64	1255.35	3.45E+01	38.24	5.22E-03	4.91E-04
	65	1281.29	9.81E+01	40.58	5.14E-03	5.03E-04
M	66	1377.88	3.23E+02	43.68	4.87E-03	5.08E-04
m	67	1385.66	6.88E+01	40.40	4.85E-03	5.04E-04
M	68	1401.63	8.28E+01	38.43	4.81E-03	4.98E-04
m	69	1408.25	1.78E+02	38.99	4.79E-03	4.95E-04
	70	1448.64	4.15E+01	31.35	4.70E-03	4.78E-04
	71	1461.46	1.67E+02	50.16	4.67E-03	4.73E-04
	72	1470.36	2.15E+01	25.76	4.65E-03	4.69E-04
	73	1509.50	1.40E+02	41.69	4.57E-03	4.53E-04
	74	1524.50	4.87E+01	40.01	4.54E-03	4.47E-04
	75	1543.66	2.30E+01	25.23	4.51E-03	4.39E-04
	76	1583.47	5.68E+01	35.75	4.44E-03	4.22E-04
	77	1600.45	2.58E+01	26.68	4.41E-03	4.15E-04
M	78	1655.98	1.42E+01	13.08	4.32E-03	3.92E-04
m	79	1662.09	7.55E+01	25.59	4.32E-03	3.90E-04
	80	1729.98	2.18E+02	40.63	4.23E-03	3.62E-04
	81	1764.78	9.41E+02	66.29	4.18E-03	3.47E-04
	82	1847.46	1.17E+02	35.38	4.10E-03	3.18E-04
	83	1874.70	2.82E+01	25.94	4.08E-03	3.18E-04
	84	1940.52	4.12E+01	34.10	4.03E-03	3.18E-04
	85	2009.23	1.47E+01	13.42	3.99E-03	3.18E-04
	86	2017.25	1.63E+01	11.87	3.99E-03	3.18E-04
	87	2053.43	1.40E+01	10.20	3.97E-03	3.18E-04
	88	2119.04	7.30E+01	22.00	3.95E-03	3.18E-04
	89	2181.81	7.00E+00	8.72	3.93E-03	3.18E-04
	90	2204.21	2.62E+02	34.80	3.93E-03	3.18E-04
	91	2293.23	1.54E+01	9.85	3.93E-03	3.18E-04
	92	2447.65	8.20E+01	18.11	3.96E-03	3.18E-04
	93	2614.65	3.20E+01	11.31	4.05E-03	3.18E-04

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 9:19:38AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	27.48	1.34E+02	117.36			1.34E+02	1.17E+02
	2	32.17	2.00E+02	99.06			2.00E+02	9.91E+01
M	3	46.74	1.27E+03	130.11	7.29E+01	8.80E+00	1.20E+03	1.30E+02
m	4	50.11	3.25E+02	116.24			3.25E+02	1.16E+02
	5	67.86	3.74E+03	252.23			3.74E+03	2.52E+02
M	6	75.12	2.41E+03	165.71			2.41E+03	1.66E+02
m	7	80.91	9.60E+02	154.22			9.60E+02	1.54E+02
m	8	83.71	2.07E+03	163.83			2.07E+03	1.64E+02
m	9	87.71	7.61E+02	147.36	6.84E+00	1.23E+00	7.54E+02	1.47E+02
	10	95.12	9.73E+02	204.51			9.73E+02	2.05E+02
	11	112.94	1.54E+02	116.53			1.54E+02	1.17E+02
	12	122.68	1.65E+02	114.12			1.65E+02	1.14E+02
	13	143.95	9.58E+02	203.63			9.58E+02	2.04E+02
	14	154.24	4.05E+02	181.95			4.05E+02	1.82E+02
	15	159.25	1.11E+02	99.10			1.11E+02	9.91E+01
M	16	183.34	8.44E+01	92.84			8.44E+01	9.28E+01
m	17	186.34	1.53E+03	132.43	4.78E+01	7.95E+00	1.49E+03	1.33E+02
	18	210.88	1.27E+02	127.60			1.27E+02	1.28E+02
M	19	236.13	8.77E+02	94.28			8.77E+02	9.43E+01
m	20	239.13	1.76E+02	82.49	1.43E+01	7.07E+00	1.62E+02	8.28E+01
m	21	242.08	1.92E+03	113.79			1.92E+03	1.14E+02
M	22	255.25	4.54E+02	108.08			4.54E+02	1.08E+02
m	23	257.77	3.77E+02	132.77			3.77E+02	1.33E+02
	24	270.60	1.63E+03	171.31	1.77E+00	6.25E+00	1.63E+03	1.71E+02
	25	285.45	1.75E+02	126.28			1.75E+02	1.26E+02
M	26	295.38	4.27E+03	143.15	9.61E+00	5.92E+00	4.26E+03	1.43E+02
m	27	300.21	3.41E+02	80.22			3.41E+02	8.02E+01
m	28	303.22	1.65E+02	83.23			1.65E+02	8.32E+01
	29	314.27	1.04E+02	102.20			1.04E+02	1.02E+02
	30	324.03	2.17E+02	82.95			2.17E+02	8.30E+01
	31	329.75	2.46E+02	85.36			2.46E+02	8.54E+01
	32	338.50	8.85E+01	109.31			8.85E+01	1.09E+02
	33	351.98	7.89E+03	205.10	1.56E+01	5.52E+00	7.88E+03	2.05E+02
M	34	401.94	3.14E+02	68.95			3.14E+02	6.89E+01
m	35	405.24	2.75E+02	66.95			2.75E+02	6.69E+01

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	36	427.76	1.08E+02	105.24			1.08E+02	1.05E+02
	37	445.16	1.02E+02	82.18			1.02E+02	8.22E+01
	38	462.11	6.25E+01	64.14			6.25E+01	6.41E+01
	39	480.43	9.44E+01	62.46			9.44E+01	6.25E+01
	40	487.37	1.03E+02	61.22			1.03E+02	6.12E+01
	41	510.63	2.26E+02	92.69	8.01E+01	5.53E+00	1.46E+02	9.29E+01
	42	538.73	6.45E+01	47.24			6.45E+01	4.72E+01
M	43	580.29	6.33E+01	35.72			6.33E+01	3.57E+01
	44	609.48	5.38E+03	163.97	1.38E+01	3.84E+00	5.37E+03	1.64E+02
	45	665.65	1.87E+02	59.43			1.87E+02	5.94E+01
	46	719.88	5.35E+01	64.34			5.35E+01	6.43E+01
M	47	761.08	4.13E+01	38.26			4.13E+01	3.83E+01
m	48	768.44	5.24E+02	58.89			5.24E+02	5.89E+01
	49	786.19	1.52E+02	59.04			1.52E+02	5.90E+01
	50	806.28	7.79E+01	54.11			7.79E+01	5.41E+01
	51	832.16	1.26E+02	51.34			1.26E+02	5.13E+01
	52	839.46	1.13E+02	47.29			1.13E+02	4.73E+01
	53	854.56	3.70E+01	37.92			3.70E+01	3.79E+01
M	54	907.95	3.17E+01	23.16			3.17E+01	2.32E+01
m	55	911.73	6.51E+01	44.75	7.18E+00	2.77E+00	5.79E+01	4.48E+01
	56	934.21	2.74E+02	67.56			2.74E+02	6.76E+01
	57	1052.59	5.60E+01	56.99			5.60E+01	5.70E+01
	58	1079.63	3.35E+01	37.79			3.35E+01	3.78E+01
	59	1120.61	1.09E+03	86.20	3.25E+00	2.68E+00	1.09E+03	8.62E+01
	60	1155.48	1.72E+02	52.56			1.72E+02	5.26E+01
	61	1208.14	4.28E+01	36.06			4.28E+01	3.61E+01
M	62	1234.45	2.04E+01	14.97			2.04E+01	1.50E+01
m	63	1238.60	4.30E+02	50.50	1.77E+00	2.41E+00	4.28E+02	5.06E+01
	64	1255.35	3.45E+01	38.24			3.45E+01	3.82E+01
	65	1281.29	9.81E+01	40.58			9.81E+01	4.06E+01
M	66	1377.88	3.23E+02	43.68			3.23E+02	4.37E+01
m	67	1385.66	6.88E+01	40.40			6.88E+01	4.04E+01
M	68	1401.63	8.28E+01	38.43			8.28E+01	3.84E+01
m	69	1408.25	1.78E+02	38.99			1.78E+02	3.90E+01
	70	1448.64	4.15E+01	31.35			4.15E+01	3.14E+01
	71	1461.46	1.67E+02	50.16	1.14E+01	2.53E+00	1.56E+02	5.02E+01
	72	1470.36	2.15E+01	25.76			2.15E+01	2.58E+01
	73	1509.50	1.40E+02	41.69			1.40E+02	4.17E+01
	74	1524.50	4.87E+01	40.01			4.87E+01	4.00E+01
	75	1543.66	2.30E+01	25.23			2.30E+01	2.52E+01
	76	1583.47	5.68E+01	35.75			5.68E+01	3.57E+01
	77	1600.45	2.58E+01	26.68			2.58E+01	2.67E+01
M	78	1655.98	1.42E+01	13.08			1.42E+01	1.31E+01
m	79	1662.09	7.55E+01	25.59			7.55E+01	2.56E+01
	80	1729.98	2.18E+02	40.63			2.18E+02	4.06E+01
	81	1764.78	9.41E+02	66.29	3.50E+00	2.20E+00	9.37E+02	6.63E+01
	82	1847.46	1.17E+02	35.38			1.17E+02	3.54E+01
	83	1874.70	2.82E+01	25.94			2.82E+01	2.59E+01
	84	1940.52	4.12E+01	34.10			4.12E+01	3.41E+01
	85	2009.23	1.47E+01	13.42			1.47E+01	1.34E+01
	86	2017.25	1.63E+01	11.87			1.63E+01	1.19E+01
	87	2053.43	1.40E+01	10.20			1.40E+01	1.02E+01
	88	2119.04	7.30E+01	22.00			7.30E+01	2.20E+01
	89	2181.81	7.00E+00	8.72			7.00E+00	8.72E+00

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
90	2204.21	2.62E+02	34.80			2.62E+02	3.48E+01
91	2293.23	1.54E+01	9.85			1.54E+01	9.85E+00
92	2447.65	8.20E+01	18.11			8.20E+01	1.81E+01
93	2614.65	3.20E+01	11.31	8.08E+00	1.71E+00	2.39E+01	1.14E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 9:19:38AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	27.48	1.34E+02	117.36			1.34E+02	1.17E+02
	2	32.17	2.00E+02	99.06			2.00E+02	9.91E+01
M	3	46.74	1.27E+03	130.11	7.29E+01	8.80E+00	1.20E+03	1.30E+02
m	4	50.11	3.25E+02	116.24			3.25E+02	1.16E+02
	5	67.86	3.74E+03	252.23			3.74E+03	2.52E+02
M	6	75.12	2.41E+03	165.71			2.41E+03	1.66E+02
m	7	80.91	9.60E+02	154.22			9.60E+02	1.54E+02
m	8	83.71	2.07E+03	163.83			2.07E+03	1.64E+02
m	9	87.71	7.61E+02	147.36	6.84E+00	1.23E+00	7.54E+02	1.47E+02
	10	95.12	9.73E+02	204.51			9.73E+02	2.05E+02
	11	112.94	1.54E+02	116.53			1.54E+02	1.17E+02
	12	122.68	1.65E+02	114.12			1.65E+02	1.14E+02
	13	143.95	9.58E+02	203.63			9.58E+02	2.04E+02
	14	154.24	4.05E+02	181.95			4.05E+02	1.82E+02
	15	159.25	1.11E+02	99.10			1.11E+02	9.91E+01
M	16	183.34	8.44E+01	92.84			8.44E+01	9.28E+01
m	17	186.34	1.53E+03	132.43	4.78E+01	7.95E+00	1.49E+03	1.33E+02
	18	210.88	1.27E+02	127.60			1.27E+02	1.28E+02
M	19	236.13	8.77E+02	94.28			8.77E+02	9.43E+01
m	20	239.13	1.76E+02	82.49	1.43E+01	7.07E+00	1.62E+02	8.28E+01
m	21	242.08	1.92E+03	113.79			1.92E+03	1.14E+02
M	22	255.25	4.54E+02	108.08			4.54E+02	1.08E+02
m	23	257.77	3.77E+02	132.77			3.77E+02	1.33E+02
	24	270.60	1.63E+03	171.31	1.77E+00	6.25E+00	1.63E+03	1.71E+02

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	25	285.45	1.75E+02	126.28			1.75E+02	1.26E+02
M	26	295.38	4.27E+03	143.15	9.61E+00	5.92E+00	4.26E+03	1.43E+02
m	27	300.21	3.41E+02	80.22			3.41E+02	8.02E+01
m	28	303.22	1.65E+02	83.23			1.65E+02	8.32E+01
	29	314.27	1.04E+02	102.20			1.04E+02	1.02E+02
	30	324.03	2.17E+02	82.95			2.17E+02	8.30E+01
	31	329.75	2.46E+02	85.36			2.46E+02	8.54E+01
	32	338.50	8.85E+01	109.31			8.85E+01	1.09E+02
	33	351.98	7.89E+03	205.10	1.56E+01	5.52E+00	7.88E+03	2.05E+02
M	34	401.94	3.14E+02	68.95			3.14E+02	6.89E+01
m	35	405.24	2.75E+02	66.95			2.75E+02	6.69E+01
	36	427.76	1.08E+02	105.24			1.08E+02	1.05E+02
	37	445.16	1.02E+02	82.18			1.02E+02	8.22E+01
	38	462.11	6.25E+01	64.14			6.25E+01	6.41E+01
	39	480.43	9.44E+01	62.46			9.44E+01	6.25E+01
	40	487.37	1.03E+02	61.22			1.03E+02	6.12E+01
	41	510.63	2.26E+02	92.69	8.01E+01	5.53E+00	1.46E+02	9.29E+01
	42	538.73	6.45E+01	47.24			6.45E+01	4.72E+01
M	43	580.29	6.33E+01	35.72			6.33E+01	3.57E+01
	44	609.48	5.38E+03	163.97	1.38E+01	3.84E+00	5.37E+03	1.64E+02
	45	665.65	1.87E+02	59.43			1.87E+02	5.94E+01
	46	719.88	5.35E+01	64.34			5.35E+01	6.43E+01
M	47	761.08	4.13E+01	38.26			4.13E+01	3.83E+01
m	48	768.44	5.24E+02	58.89			5.24E+02	5.89E+01
	49	786.19	1.52E+02	59.04			1.52E+02	5.90E+01
	50	806.28	7.79E+01	54.11			7.79E+01	5.41E+01
	51	832.16	1.26E+02	51.34			1.26E+02	5.13E+01
	52	839.46	1.13E+02	47.29			1.13E+02	4.73E+01
	53	854.56	3.70E+01	37.92			3.70E+01	3.79E+01
M	54	907.95	3.17E+01	23.16			3.17E+01	2.32E+01
m	55	911.73	6.51E+01	44.75	7.18E+00	2.77E+00	5.79E+01	4.48E+01
	56	934.21	2.74E+02	67.56			2.74E+02	6.76E+01
	57	1052.59	5.60E+01	56.99			5.60E+01	5.70E+01
	58	1079.63	3.35E+01	37.79			3.35E+01	3.78E+01
	59	1120.61	1.09E+03	86.20	3.25E+00	2.68E+00	1.09E+03	8.62E+01
	60	1155.48	1.72E+02	52.56			1.72E+02	5.26E+01
	61	1208.14	4.28E+01	36.06			4.28E+01	3.61E+01
M	62	1234.45	2.04E+01	14.97			2.04E+01	1.50E+01
m	63	1238.60	4.30E+02	50.50	1.77E+00	2.41E+00	4.28E+02	5.06E+01
	64	1255.35	3.45E+01	38.24			3.45E+01	3.82E+01
	65	1281.29	9.81E+01	40.58			9.81E+01	4.06E+01
M	66	1377.88	3.23E+02	43.68			3.23E+02	4.37E+01
m	67	1385.66	6.88E+01	40.40			6.88E+01	4.04E+01
M	68	1401.63	8.28E+01	38.43			8.28E+01	3.84E+01
m	69	1408.25	1.78E+02	38.99			1.78E+02	3.90E+01
	70	1448.64	4.15E+01	31.35			4.15E+01	3.14E+01
	71	1461.46	1.67E+02	50.16	1.14E+01	2.53E+00	1.56E+02	5.02E+01
	72	1470.36	2.15E+01	25.76			2.15E+01	2.58E+01
	73	1509.50	1.40E+02	41.69			1.40E+02	4.17E+01
	74	1524.50	4.87E+01	40.01			4.87E+01	4.00E+01
	75	1543.66	2.30E+01	25.23			2.30E+01	2.52E+01
	76	1583.47	5.68E+01	35.75			5.68E+01	3.57E+01
	77	1600.45	2.58E+01	26.68			2.58E+01	2.67E+01
M	78	1655.98	1.42E+01	13.08			1.42E+01	1.31E+01

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	79	1662.09	7.55E+01	25.59			7.55E+01	2.56E+01
	80	1729.98	2.18E+02	40.63			2.18E+02	4.06E+01
	81	1764.78	9.41E+02	66.29	3.50E+00	2.20E+00	9.37E+02	6.63E+01
	82	1847.46	1.17E+02	35.38			1.17E+02	3.54E+01
	83	1874.70	2.82E+01	25.94			2.82E+01	2.59E+01
	84	1940.52	4.12E+01	34.10			4.12E+01	3.41E+01
	85	2009.23	1.47E+01	13.42			1.47E+01	1.34E+01
	86	2017.25	1.63E+01	11.87			1.63E+01	1.19E+01
	87	2053.43	1.40E+01	10.20			1.40E+01	1.02E+01
	88	2119.04	7.30E+01	22.00			7.30E+01	2.20E+01
	89	2181.81	7.00E+00	8.72			7.00E+00	8.72E+00
	90	2204.21	2.62E+02	34.80			2.62E+02	3.48E+01
	91	2293.23	1.54E+01	9.85			1.54E+01	9.85E+00
	92	2447.65	8.20E+01	18.11			8.20E+01	1.81E+01
	93	2614.65	3.20E+01	11.31	8.08E+00	1.71E+00	2.39E+01	1.14E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.935	1460.81	*	10.67	9.09E+00	3.07E+00
CO-57	0.775	122.06	*	85.51	2.25E-01	1.57E-01
		136.48		10.60		
NB-95M	0.762	235.69	*	25.00	6.99E+02	9.75E+01
CD-109	0.983	88.03	*	3.72	2.15E+01	5.54E+00
TE123M	0.990	159.00	*	84.10	1.91E-01	1.71E-01
SN-126	0.997	87.57	*	37.00	2.08E+00	5.22E-01
XE-133	0.891	81.00	*	38.00	7.22E+01	1.52E+01
PM-149	0.509	285.90	*	3.10	2.68E+04	1.96E+04
TA-182	0.495	67.75	*	41.20	1.21E+01	1.44E+00
		1121.30	*	34.90	1.85E+01	2.14E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.991	46.50	*	4.25	6.05E+01	9.97E+00
PB-211	0.984	404.84	*	2.90	2.21E+01	5.67E+00

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-211	0.984	831.96	*	2.90	1.74E+01	7.24E+00
PB-212	0.963	238.63	*	44.60	5.89E-01	3.06E-01
		300.09	*	3.41	1.90E+01	4.82E+00
BI-214	0.992	609.31	*	46.30	3.63E+01	3.32E+00
		1120.29	*	15.10	3.68E+01	4.25E+00
		1764.49	*	15.80	4.12E+01	4.49E+00
		2204.22	*	4.98	3.88E+01	6.04E+00
PB-214	0.998	295.21	*	19.19	4.16E+01	4.22E+00
		351.92	*	37.19	4.48E+01	4.12E+00
RN-219	0.997	401.80	*	6.50	1.12E+01	2.62E+00
RA-223	0.996	323.87	*	3.88	1.12E+01	4.40E+00
RA-226	0.997	186.21	*	3.28	6.25E+01	1.15E+02
TH-227	0.965	50.10	*	8.40	6.96E+00	2.59E+00
		236.00	*	11.50	1.23E+01	1.72E+00
		256.20	*	6.30	1.23E+01	3.13E+00
AC-228	0.536	338.32	*	11.40	1.60E+00	1.98E+00
		911.07	*	27.70	9.00E-01	7.01E-01
		969.11		16.60		
PA-231	0.307	283.67		1.60		
		302.67	*	2.30	1.37E+01	7.04E+00
TH-231	0.599	25.64		14.70		
		84.21	*	6.40	3.33E+01	5.49E+00
AM-243	0.968	74.67	*	66.00	3.90E+00	5.35E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 9:19:38AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	27.48	3.71220E-02	43.91		
2	32.17	5.56227E-02	24.73		
10	95.12	2.70250E-01	10.51		
11	112.94	4.26541E-02	37.94		
13	143.95	2.65993E-01	10.63	Sum	
14	154.24	1.12466E-01	22.47		

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Analysis Report for 1507182-09

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	16	183.34	2.34476E-02	54.99		
	18	210.88	3.53227E-02	50.17	Sum	
m	21	242.08	5.32319E-01	2.97	Sum	
m	23	257.77	1.04795E-01	17.60		
	24	270.60	4.53567E-01	5.25	Sum	
	29	314.27	2.87623E-02	49.35	Sum	
	31	329.75	6.83556E-02	17.34	Sum	
	36	427.76	2.98657E-02	48.94	Sum	
	37	445.16	2.81989E-02	40.48	Sum	
	38	462.11	1.73746E-02	51.27	Sum	
	39	480.43	2.62301E-02	33.07	Sum	
	40	487.37	2.85919E-02	29.74	Sum	
	41	510.63	4.04511E-02	31.88	Sum	
	42	538.73	1.79215E-02	36.61	Sum	
M	43	580.29	1.75817E-02	28.22	Sum	
	45	665.65	5.19693E-02	15.88	Tol.	SB-126
	46	719.88	1.48731E-02	60.08	Tol.	SB-126
M	47	761.08	1.14755E-02	46.31		
m	48	768.44	1.45542E-01	5.62	Sum	
	49	786.19	4.23538E-02	19.36		
	50	806.28	2.16470E-02	34.72	Sum	
	52	839.46	3.13276E-02	20.96		
	53	854.56	1.02778E-02	51.24		
M	54	907.95	8.79295E-03	36.58	Sum	
	56	934.21	7.60946E-02	12.33	Sum	
	57	1052.59	1.55579E-02	50.88		
	58	1079.63	9.30457E-03	56.41		
	60	1155.48	4.78442E-02	15.26	Sum	
	61	1208.14	1.18826E-02	42.14	Sum	
M	62	1234.45	5.67542E-03	36.65	Sum	
m	63	1238.60	1.18832E-01	5.91		
	64	1255.35	9.58333E-03	55.41		
	65	1281.29	2.72444E-02	20.69		
M	66	1377.88	8.97361E-02	6.76		
m	67	1385.66	1.91085E-02	29.36		
M	68	1401.63	2.29898E-02	23.22		
m	69	1408.25	4.93689E-02	10.97	Tol.	EU-152
	70	1448.64	1.15331E-02	37.76		
	72	1470.36	5.97222E-03	59.90		
	73	1509.50	3.89835E-02	14.85		
	74	1524.50	1.35344E-02	41.05		
	75	1543.66	6.39918E-03	54.76		
	76	1583.47	1.57912E-02	31.44	Sum	
	77	1600.45	7.15625E-03	51.79		
M	78	1655.98	3.93291E-03	46.18		
m	79	1662.09	2.09586E-02	16.96		
	80	1729.98	6.06605E-02	9.30	Sum	
	82	1847.46	3.24790E-02	15.13		
	83	1874.70	7.83525E-03	45.99		
	84	1940.52	1.14328E-02	41.43		
	85	2009.23	4.09444E-03	45.51		
	86	2017.25	4.53502E-03	36.37		
	87	2053.43	3.88889E-03	36.42		
	88	2119.04	2.02778E-02	15.07		

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
89	2181.81	1.94444E-03	62.27		
91	2293.23	4.26698E-03	32.06	Sum	
92	2447.65	2.27778E-02	11.04		
93	2614.65	6.64335E-03	23.92	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.93	1460.81	*	10.67	9.09E+00	3.07E+00
CO-57	0.77	122.06	*	85.51	2.25E-01	1.57E-01
		136.48		10.60		
NB-95M	0.76	235.69	*	25.00	6.99E+02	9.75E+01
CD-109	0.98	88.03	*	3.72	2.15E+01	5.54E+00
TE123M	0.99	159.00	*	84.10	1.91E-01	1.71E-01
SN-126	0.99	87.57	*	37.00	2.08E+00	5.22E-01
XE-133	0.89	81.00	*	38.00	7.22E+01	1.52E+01
PM-149	0.50	285.90	*	3.10	2.68E+04	1.96E+04
TA-182	0.49	67.75	*	41.20	1.21E+01	1.44E+00
		1121.30	*	34.90	1.85E+01	2.14E+00
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	0.99	46.50	*	4.25	6.05E+01	9.97E+00
PB-211	0.98	404.84	*	2.90	2.21E+01	5.67E+00
		831.96	*	2.90	1.74E+01	7.24E+00
PB-212	0.96	238.63	*	44.60	5.89E-01	3.06E-01
		300.09	*	3.41	1.90E+01	4.82E+00
BI-214	0.99	609.31	*	46.30	3.63E+01	3.32E+00
		1120.29	*	15.10	3.68E+01	4.25E+00
		1764.49	*	15.80	4.12E+01	4.49E+00
		2204.22	*	4.98	3.88E+01	6.04E+00
PB-214	0.99	295.21	*	19.19	4.16E+01	4.22E+00

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-214	0.99	351.92	*	37.19	4.48E+01	4.12E+00
RN-219	0.99	401.80	*	6.50	1.12E+01	2.62E+00
RA-223	0.99	323.87	*	3.88	1.12E+01	4.40E+00
RA-226	0.99	186.21	*	3.28	6.25E+01	1.15E+02
TH-227	0.96	50.10	*	8.40	6.96E+00	2.59E+00
		236.00	*	11.50	1.23E+01	1.72E+00
		256.20	*	6.30	1.23E+01	3.13E+00
AC-228	0.53	338.32	*	11.40	1.60E+00	1.98E+00
		911.07	*	27.70	9.00E-01	7.01E-01
		969.11		16.60		
PA-231	0.30	283.67		1.60		
		302.67	*	2.30	1.37E+01	7.04E+00
TH-231	0.59	25.64		14.70		
		84.21	*	6.40	3.33E+01	5.49E+00
AM-243	0.96	74.67	*	66.00	3.90E+00	5.35E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.935	9.09E+00	3.07E+00	
	CO-57	0.775	2.25E-01	1.57E-01	
	NB-95M	0.762	1.81E+02	1.50E+02	
?	CD-109	0.983	2.15E+01	5.54E+00	
	TE123M	0.990	1.91E-01	1.71E-01	
?	SN-126	0.997	2.08E+00	5.22E-01	
	XE-133	0.891	7.22E+01	1.52E+01	
	PM-149	0.509	2.68E+04	1.96E+04	
	TA-182	0.495	8.83E+00	1.25E+00	
	PB-210	0.991	6.05E+01	9.97E+00	
	PB-211	0.984	2.03E+01	4.46E+00	
	PB-212	0.963	6.63E-01	3.06E-01	

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
BI-214	0.992	3.35E+01	2.20E+00	
PB-214	0.998	4.33E+01	2.95E+00	
RN-219	0.997	1.12E+01	2.62E+00	
RA-223	0.996	1.12E+01	4.40E+00	
RA-226	0.997	6.25E+01	1.15E+02	
TH-227	0.965	9.12E+00	2.00E+00	
AC-228	0.536	9.78E-01	6.61E-01	
PA-231	0.307	1.37E+01	7.04E+00	
TH-231	0.599	3.33E+01	5.49E+00	
AM-243	0.968	3.90E+00	5.35E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 9:19:38AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	27.48	3.71220E-02	43.91		
	2	32.17	5.56227E-02	24.73		
	10	95.12	2.70250E-01	10.51		
	11	112.94	4.26541E-02	37.94		
	13	143.95	2.65993E-01	10.63	Sum	
	14	154.24	1.12466E-01	22.47		
M	16	183.34	2.34476E-02	54.99		
	18	210.88	3.53227E-02	50.17	Sum	
m	21	242.08	5.32319E-01	2.97	Sum	
m	23	257.77	1.04795E-01	17.60		
	24	270.60	4.53567E-01	5.25	Sum	
	29	314.27	2.87623E-02	49.35	Sum	
	31	329.75	6.83556E-02	17.34	Sum	
	36	427.76	2.98657E-02	48.94	Sum	
	37	445.16	2.81989E-02	40.48	Sum	
	38	462.11	1.73746E-02	51.27	Sum	
	39	480.43	2.62301E-02	33.07	Sum	
	40	487.37	2.85919E-02	29.74	Sum	
	41	510.63	4.04511E-02	31.88	Sum	
	42	538.73	1.79215E-02	36.61	Sum	
M	43	580.29	1.75817E-02	28.22	Sum	
	45	665.65	5.19693E-02	15.88	Tol.	SB-126
	46	719.88	1.48731E-02	60.08	Tol.	SB-126
M	47	761.08	1.14755E-02	46.31		
m	48	768.44	1.45542E-01	5.62	Sum	
	49	786.19	4.23538E-02	19.36		
	50	806.28	2.16470E-02	34.72	Sum	
	52	839.46	3.13276E-02	20.96		
	53	854.56	1.02778E-02	51.24		
M	54	907.95	8.79295E-03	36.58	Sum	
	56	934.21	7.60946E-02	12.33	Sum	
	57	1052.59	1.55579E-02	50.88		
	58	1079.63	9.30457E-03	56.41		
	60	1155.48	4.78442E-02	15.26	Sum	
	61	1208.14	1.18826E-02	42.14	Sum	

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	62	1234.45	5.67542E-03	36.65	Sum	
m	63	1238.60	1.18832E-01	5.91		
	64	1255.35	9.58333E-03	55.41		
	65	1281.29	2.72444E-02	20.69		
M	66	1377.88	8.97361E-02	6.76		
m	67	1385.66	1.91085E-02	29.36		
M	68	1401.63	2.29898E-02	23.22		
m	69	1408.25	4.93689E-02	10.97	Tol.	EU-152
	70	1448.64	1.15331E-02	37.76		
	72	1470.36	5.97222E-03	59.90		
	73	1509.50	3.89835E-02	14.85		
	74	1524.50	1.35344E-02	41.05		
	75	1543.66	6.39918E-03	54.76		
	76	1583.47	1.57912E-02	31.44	Sum	
	77	1600.45	7.15625E-03	51.79		
M	78	1655.98	3.93291E-03	46.18		
m	79	1662.09	2.09586E-02	16.96		
	80	1729.98	6.06605E-02	9.30	Sum	
	82	1847.46	3.24790E-02	15.13		
	83	1874.70	7.83525E-03	45.99		
	84	1940.52	1.14328E-02	41.43		
	85	2009.23	4.09444E-03	45.51		
	86	2017.25	4.53502E-03	36.37		
	87	2053.43	3.88889E-03	36.42		
	88	2119.04	2.02778E-02	15.07		
	89	2181.81	1.94444E-03	62.27		
	91	2293.23	4.26698E-03	32.06	Sum	
	92	2447.65	2.27778E-02	11.04		
	93	2614.65	6.64335E-03	23.92	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-7.30E-02	2.72E+00	2.72E+00
+	NA-22	1274.54		99.94	-1.20E-02	2.63E-01	2.63E-01
+	NA-24	1368.53		99.99	8.59E+10	6.21E+10	3.23E+11
		2754.09		99.86	-2.25E+10		6.21E+10
+	AL-26	1808.65		99.76	-1.07E-01	1.72E-01	1.72E-01
+	K-40	1460.81	*	10.67	9.09E+00	4.33E+00	4.33E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	4.73E+00	3.72E-01	4.28E-01
		78.34		96.00	2.84E+00		3.72E-01
+	SC-46	889.25		99.98	-2.78E-02	3.33E-01	3.33E-01
		1120.51		99.99	6.91E+00		1.04E+00
+	V-48	983.52		99.98	-5.72E-01	7.86E-01	7.86E-01
		1312.10		97.50	8.77E-03		8.13E-01
+	CR-51	320.08		9.83	1.70E-01	4.01E+00	4.01E+00
+	MN-54	834.83		99.97	-5.23E-01	3.11E-01	3.11E-01
+	CO-56	846.75		99.96	-9.13E-02	3.18E-01	3.18E-01
		1037.75		14.03	-2.26E-01		2.31E+00
		1238.25		67.00	4.41E+00		1.11E+00
		1771.40		15.51	-3.26E-01		1.88E+00
		2598.48		16.90	5.30E-02		6.37E-01
+	CO-57	122.06	*	85.51	2.25E-01	2.52E-01	2.52E-01
		136.48		10.60	-8.12E-02		2.16E+00
+	CO-58	810.76		99.40	-3.04E-02	3.57E-01	3.57E-01
+	FE-59	1099.22		56.50	-2.98E-01	6.69E-01	6.69E-01
		1291.56		43.20	-2.35E-01		9.06E-01
+	CO-60	1173.22		100.00	1.25E-01	2.68E-01	2.71E-01
		1332.49		100.00	2.40E-02		2.68E-01
+	ZN-65	1115.52		50.75	8.16E-02	6.32E-01	6.32E-01
+	GA-67	93.31		35.70	1.21E+02	1.51E+02	1.51E+02
		208.95		2.24	1.08E+03		2.21E+03
		300.22		16.00	1.34E+02		3.54E+02
+	SE-75	121.11		16.70	5.70E-02	4.20E-01	1.38E+00
		136.00		59.20	4.55E-02		4.20E-01
		264.65		59.80	-1.18E-01		4.24E-01
		279.53		25.20	-2.89E-01		1.03E+00
		400.65		11.40	4.52E+00		2.93E+00
+	RB-82	776.52		13.00	8.75E-01	3.66E+00	3.66E+00
+	RB-83	520.41		46.00	-1.92E-01	5.09E-01	5.09E-01
		529.64		30.30	-4.13E-01		7.61E-01
		552.65		16.40	7.45E-02		1.46E+00
+	KR-85	513.99		0.43	-2.98E+01	5.02E+01	5.02E+01
+	SR-85	513.99		99.27	-1.70E-01	2.86E-01	2.86E-01
+	Y-88	898.02		93.40	1.68E-01	2.92E-01	3.75E-01
		1836.01		99.38	2.04E-01		2.92E-01
+	NB-93M	16.57		9.43	4.46E+04	2.95E+04	2.95E+04
+	NB-94	702.63		100.00	1.72E-01	2.72E-01	2.72E-01
		871.10		100.00	8.89E-02		2.81E-01

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	2.80E+00	7.65E-01	7.65E-01
+	NB-95M	235.69	*	25.00	6.99E+02	2.58E+02	2.58E+02
+	ZR-95	724.18		43.70	-1.90E-01	5.63E-01	7.48E-01
		756.72		55.30	2.22E-01		5.63E-01
+	MO-99	181.06		6.20	1.09E+03	1.07E+03	2.11E+03
		739.58		12.80	-6.61E+02		1.07E+03
		778.00		4.50	2.28E+02		2.89E+03
+	RU-103	497.08		89.00	-9.20E-03	3.46E-01	3.46E-01
+	RU-106	621.84		9.80	-6.06E-01	2.35E+00	2.35E+00
+	AG-108M	433.93		89.90	-2.37E-02	2.32E-01	2.32E-01
		614.37		90.40	-7.67E-03		3.22E-01
		722.95		90.50	-4.85E-02		2.88E-01
+	CD-109	88.03	*	3.72	2.15E+01	2.20E+01	2.20E+01
+	AG-110M	657.75		93.14	4.72E-02	2.60E-01	2.60E-01
		677.61		10.53	6.92E-01		2.30E+00
		706.67		16.46	9.25E-01		1.70E+00
		763.93		21.98	-1.11E+01		1.46E+00
		884.67		71.63	4.95E-02		4.09E-01
		1384.27		23.94	7.05E-02		1.49E+00
+	CD-113M	263.70		0.02	4.88E+01	9.70E+02	9.70E+02
+	SN-113	255.12		1.93	5.19E+01	4.00E-01	1.77E+01
		391.69		64.90	-3.03E-01		4.00E-01
+	TE123M	159.00	*	84.10	1.91E-01	2.78E-01	2.78E-01
+	SB-124	602.71		97.87	-9.50E-02	3.41E-01	3.41E-01
		645.85		7.26	-4.64E-01		4.02E+00
		722.78		11.10	-5.28E-01		3.13E+00
		1691.02		49.00	-2.69E-02		7.00E-01
+	I-125	35.49		6.49	1.47E+01	1.84E+01	1.84E+01
+	SB-125	176.33		6.89	-2.75E-01	8.75E-01	3.37E+00
		427.89		29.33	7.97E-01		8.75E-01
		463.38		10.35	1.33E+00		2.13E+00
		600.56		17.80	4.73E-02		1.47E+00
		635.90		11.32	3.47E-01		2.01E+00
+	SB-126	414.70		83.30	5.43E-01	9.35E-01	1.17E+00
		666.33		99.60	2.57E+00		1.24E+00
		695.00		99.60	-5.47E-01		9.35E-01
		720.50		53.80	1.66E+00		2.08E+00
+	SN-126	87.57	*	37.00	2.08E+00	2.14E+00	2.14E+00
+	SB-127	473.00		25.00	-5.53E+00	5.47E+01	7.63E+01
		685.20		35.70	-5.12E+01		5.47E+01
		783.80		14.70	3.08E+02		1.94E+02
+	I-129	29.78		57.00	-9.87E+00	4.06E+00	4.06E+00
		33.60		13.20	-9.74E+00		8.59E+00
		39.58		7.52	-1.11E+00		7.18E+00
+	I-131	284.30		6.05	-3.29E+00	2.18E+00	3.49E+01
		364.48		81.20	-9.55E-01		2.18E+00
		636.97		7.26	2.53E+00		2.62E+01
		722.89		1.80	-2.12E+01		1.26E+02

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Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TE-132	49.72		13.10	1.18E+03	5.46E+01	5.32E+02
		228.16		88.00	3.18E+01		5.46E+01
+	BA-133	81.00		33.00	3.26E+00	3.65E-01	8.30E-01
		302.84		17.80	-1.33E+00		1.49E+00
		356.01		60.00	4.81E-02		3.65E-01
+	I-133	529.87		86.30	-1.35E+08	1.10E+08	1.10E+08
+	XE-133	81.00	*	38.00	7.22E+01	5.83E+01	5.83E+01
+	CS-134	563.23		8.38	4.55E-01	3.02E-01	2.50E+00
		569.32		15.43	-6.26E-01		1.31E+00
		604.70		97.60	-2.80E-02		4.35E-01
		795.84		85.40	5.25E-02		3.02E-01
		801.93		8.73	1.12E-01		3.12E+00
+	CS-135	268.24		16.00	-3.94E-01	2.04E+00	2.04E+00
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	3.85E+01	9.91E-01	1.34E+01
		163.89		4.61	1.26E+01		1.85E+01
		176.55		13.56	-3.87E-01		6.35E+00
		273.65		12.66	-1.73E+01		8.04E+00
		340.57		48.50	2.63E-01		1.91E+00
		818.50		99.70	5.63E-02		9.91E-01
		1048.07		79.60	-5.85E-01		1.36E+00
		1235.34		19.70	1.32E+01		9.68E+00
+	CS-137	661.65		85.12	4.46E-02	2.75E-01	2.75E-01
+	LA-138	788.74		34.00	1.53E+00	4.54E-01	9.27E-01
		1435.80		66.00	3.36E-01		4.54E-01
+	CE-139	165.85		80.35	-1.51E-02	3.19E-01	3.19E-01
+	BA-140	162.64		6.70	5.92E+00	3.15E+00	1.32E+01
		304.84		4.50	4.16E+00		2.11E+01
		423.70		3.20	2.40E+00		2.97E+01
		437.55		2.00	1.91E+01		4.13E+01
		537.32		25.00	-9.46E-01		3.15E+00
+	LA-140	328.77		20.50	1.11E+01	1.40E+00	5.07E+00
		487.03		45.50	2.38E+00		1.95E+00
		815.85		23.50	-9.31E-01		4.29E+00
		1596.49		95.49	5.91E-01		1.40E+00
+	CE-141	145.44		48.40	3.32E+00	9.84E-01	9.84E-01
+	CE-143	57.36		11.80	-4.42E+05	3.68E+05	6.21E+05
		293.26		42.00	4.72E+05		3.68E+05
		664.55		5.20	2.61E+06		1.78E+06
+	CE-144	133.54		10.80	-1.47E+00	2.05E+00	2.05E+00
+	PM-144	476.78		42.00	-1.37E-02	2.38E-01	5.11E-01
		618.01		98.60	1.61E-02		2.38E-01
		696.49		99.49	-4.93E-02		2.45E-01
+	PM-145	36.85		21.70	2.25E+00	1.79E+00	3.49E+00
		37.36		39.70	1.16E+00		1.79E+00
		42.30		15.10	-8.58E-01		2.84E+00
		72.40		2.31	-1.85E+01		9.69E+00

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Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90		39.94	1.75E-01	5.29E-01	5.29E-01
		735.90		14.01	4.67E-01		1.81E+00
		747.13		13.10	-7.06E-01		1.89E+00
+	ND-147	91.11		28.90	-2.18E+01	4.25E+00	4.25E+00
		531.02		13.10	-2.87E+00		7.13E+00
+	PM-149	285.90	*	3.10	2.68E+04	3.16E+04	3.16E+04
+	EU-152	121.78		20.50	4.86E-01	9.81E-01	9.81E-01
		244.69		5.40	-3.80E+01		4.95E+00
		344.27		19.13	-2.31E-01		1.20E+00
		778.89		9.20	1.94E-01		2.52E+00
		964.01		10.40	-1.22E+00		2.70E+00
		1085.78		7.22	-1.15E+00		3.43E+00
		1112.02		9.60	-2.28E-01		2.86E+00
		1407.95		14.94	4.40E+00		2.99E+00
+	GD-153	97.43		31.30	-2.71E+00	7.35E-01	7.35E-01
		103.18		22.20	-2.26E-01		9.43E-01
+	EU-154	123.07		40.50	4.85E-01	5.03E-01	5.03E-01
		723.30		19.70	-2.24E-01		1.33E+00
		873.19		11.50	-3.84E-01		2.40E+00
		996.32		10.30	8.10E-01		2.75E+00
		1004.76		17.90	4.02E-01		1.57E+00
		1274.45		35.50	-3.33E-02		7.31E-01
+	EU-155	86.50		30.90	-6.87E+00	9.55E-01	1.01E+00
		105.30		20.70	-2.08E-01		9.55E-01
+	EU-156	811.77		10.40	-2.02E+00	7.91E+00	7.91E+00
		1153.47		7.20	2.39E+01		1.76E+01
		1230.71		8.90	3.29E+00		9.30E+00
+	HO-166M	184.41		72.60	-7.40E-01	4.18E-01	4.18E-01
		280.45		29.60	-2.13E-01		7.59E-01
		410.94		11.10	-1.73E-01		2.11E+00
		711.69		54.10	1.29E-02		4.32E-01
+	TM-171	66.72		0.14	2.43E+03	2.91E+02	2.91E+02
+	HF-172	81.75		4.52	-5.17E+01	1.82E+00	6.03E+00
		125.81		11.30	-6.11E-01		1.82E+00
+	LU-172	181.53		20.60	5.14E+00	5.79E+00	1.54E+01
		810.06		16.63	-1.90E+00		2.24E+01
		912.12		15.25	1.89E+01		2.75E+01
		1093.66		62.50	2.72E+00		5.79E+00
+	LU-173	100.72		5.24	-6.40E-01	1.80E+00	3.90E+00
		272.11		21.20	5.71E+00		1.80E+00
+	HF-175	343.40		84.00	-1.13E-01	3.49E-01	3.49E-01
+	LU-176	88.34		13.30	5.41E+00	2.38E-01	2.28E+00
		201.83		86.00	-1.66E-01		2.68E-01
		306.78		94.00	5.95E-02		2.38E-01
+	TA-182	67.75	*	41.20	1.21E+01	1.18E+00	1.18E+00
		1121.30	*	34.90	1.85E+01		1.59E+00
		1189.05		16.23	6.07E-01		1.98E+00
		1221.41		26.98	3.35E-01		1.18E+00
		1231.02		11.44	1.16E+00		2.77E+00

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Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	1.61E-01	5.49E-01	9.28E-01
		468.07		48.10	1.67E-01		5.49E-01
+	HG-203	279.19		77.30	-8.84E-02	4.25E-01	4.25E-01
+	BI-207	569.67		97.72	-9.68E-02	2.02E-01	2.02E-01
		1063.62		74.90	-7.12E-02		3.29E-01
+	TL-208	583.14		30.22	1.02E+00	5.80E-01	8.93E-01
		860.37		4.48	-2.78E+00		5.74E+00
		2614.66		35.85	6.39E-01		5.80E-01
+	BI-210M	262.00		45.00	1.51E-01	5.07E-01	5.07E-01
		300.00		23.00	4.50E-01		1.19E+00
+	PB-210	46.50	*	4.25	6.05E+01	1.73E+01	1.73E+01
+	PB-211	404.84	*	2.90	2.21E+01	1.08E+01	1.64E+01
		831.96	*	2.90	1.74E+01		1.08E+01
+	BI-212	727.17		11.80	3.15E-01	2.07E+00	2.07E+00
		1620.62		2.75	7.45E-01		1.01E+01
+	PB-212	238.63	*	44.60	5.89E-01	1.18E+00	1.18E+00
		300.09	*	3.41	1.90E+01		1.74E+01
+	BI-214	609.31	*	46.30	3.63E+01	8.38E-01	8.38E-01
		1120.29	*	15.10	3.68E+01		3.16E+00
		1764.49	*	15.80	4.12E+01		1.96E+00
		2204.22	*	4.98	3.88E+01		3.52E+00
+	PB-214	295.21	*	19.19	4.16E+01	9.79E-01	3.05E+00
		351.92	*	37.19	4.48E+01		9.79E-01
+	RN-219	401.80	*	6.50	1.12E+01	7.31E+00	7.31E+00
+	RA-223	323.87	*	3.88	1.12E+01	6.71E+00	6.71E+00
+	RA-224	240.98		3.95	7.88E+01	1.05E+01	1.05E+01
+	RA-225	40.00		31.00	-8.35E-01	5.41E+00	5.41E+00
+	RA-226	186.21	*	3.28	6.25E+01	1.12E+01	1.12E+01
+	TH-227	50.10	*	8.40	6.96E+00	4.54E+00	7.34E+00
		236.00	*	11.50	1.23E+01		4.54E+00
		256.20	*	6.30	1.23E+01		6.30E+00
+	AC-228	338.32	*	11.40	1.60E+00	1.52E+00	3.25E+00
		911.07	*	27.70	9.00E-01		1.52E+00
		969.11		16.60	-8.83E-01		1.63E+00
+	TH-230	48.44		16.90	-1.33E+01	2.02E+00	2.02E+00
		62.85		4.60	1.71E+00		5.51E+00
		67.67		0.37	1.21E+03		1.09E+02
+	PA-231	283.67		1.60	-1.43E+00	1.52E+01	1.52E+01
		302.67	*	2.30	1.37E+01		2.59E+01
+	TH-231	25.64		14.70	-4.00E+01	1.24E+01	5.27E+01
		84.21	*	6.40	3.33E+01		1.24E+01
+	PA-233	311.98		38.60	-7.03E-01	1.10E+00	1.10E+00
+	PA-234	131.20		20.40	-3.01E-02	1.03E+00	1.03E+00
		733.99		8.80	1.01E+00		2.86E+00
		946.00		12.00	1.40E+00		2.38E+00
+	PA-234M	1001.03		0.92	8.70E+00	3.11E+01	3.11E+01
+	TH-234	63.29		3.80	2.05E+00	6.61E+00	6.61E+00

Analysis Report for 1507182-09

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76		10.50	1.00E+01	2.66E+00	2.66E+00
		163.35		4.70	2.17E+00		4.84E+00
		205.31		4.70	3.56E+00		5.01E+00
+	NP-237	86.50		12.60	-1.67E+01	2.46E+00	2.46E+00
+	NP-239	106.10		22.70	4.08E+02	1.39E+03	1.39E+03
		228.18		10.70	2.02E+03		3.48E+03
		277.60		14.10	-5.35E+02		2.54E+03
+	AM-241	59.54		35.90	-1.03E-01	6.84E-01	6.84E-01
+	AM-243	74.67	*	66.00	3.90E+00	1.26E+00	1.26E+00
+	CM-243	209.75		3.29	4.38E+00	1.60E+00	7.26E+00
		228.14		10.60	1.27E+00		2.18E+00
		277.60		14.00	-3.35E-01		1.60E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	2.72E+00	2.72E+00	-7.30E-02	1.31E+00
	NA-22	1274.54		99.94	2.63E-01	2.63E-01	-1.20E-02	1.24E-01
	NA-24	1368.53		99.99	3.23E+11	6.21E+10	8.59E+10	1.52E+11
		2754.09		99.86	6.21E+10		-2.25E+10	1.96E+10
	AL-26	1808.65		99.76	1.72E-01	1.72E-01	-1.07E-01	7.67E-02
+	K-40	1460.81	*	10.67	4.33E+00	4.33E+00	9.09E+00	2.09E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.28E-01	3.72E-01	4.73E+00	2.12E-01
		78.34		96.00	3.72E-01		2.84E+00	1.85E-01
	SC-46	889.25		99.98	3.33E-01	3.33E-01	-2.78E-02	1.59E-01

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Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	1.04E+00	3.33E-01	6.91E+00	5.10E-01
	V-48	983.52		99.98	7.86E-01	7.86E-01	-5.72E-01	3.75E-01
		1312.10		97.50	8.13E-01		8.77E-03	3.83E-01
	CR-51	320.08		9.83	4.01E+00	4.01E+00	1.70E-01	1.95E+00
	MN-54	834.83		99.97	3.11E-01	3.11E-01	-5.23E-01	1.50E-01
	CO-56	846.75		99.96	3.18E-01	3.18E-01	-9.13E-02	1.52E-01
		1037.75		14.03	2.31E+00		-2.26E-01	1.10E+00
		1238.25		67.00	1.11E+00		4.41E+00	5.40E-01
		1771.40		15.51	1.88E+00		-3.26E-01	8.62E-01
		2598.48		16.90	6.37E-01		5.30E-02	2.47E-01
+	CO-57	122.06	*	85.51	2.52E-01	2.52E-01	2.25E-01	1.24E-01
		136.48		10.60	2.16E+00		-8.12E-02	1.07E+00
	CO-58	810.76		99.40	3.57E-01	3.57E-01	-3.04E-02	1.72E-01
	FE-59	1099.22		56.50	6.69E-01	6.69E-01	-2.98E-01	3.17E-01
		1291.56		43.20	9.06E-01		-2.35E-01	4.27E-01
	CO-60	1173.22		100.00	2.71E-01	2.68E-01	1.25E-01	1.28E-01
		1332.49		100.00	2.68E-01		2.40E-02	1.26E-01
	ZN-65	1115.52		50.75	6.32E-01	6.32E-01	8.16E-02	3.02E-01
	GA-67	93.31		35.70	1.51E+02	1.51E+02	1.21E+02	7.48E+01
		208.95		2.24	2.21E+03		1.08E+03	1.09E+03
		300.22		16.00	3.54E+02		1.34E+02	1.74E+02
	SE-75	121.11		16.70	1.38E+00	4.20E-01	5.70E-02	6.79E-01
		136.00		59.20	4.20E-01		4.55E-02	2.07E-01
		264.65		59.80	4.24E-01		-1.18E-01	2.08E-01
		279.53		25.20	1.03E+00		-2.89E-01	5.03E-01
		400.65		11.40	2.93E+00		4.52E+00	1.43E+00
	RB-82	776.52		13.00	3.66E+00	3.66E+00	8.75E-01	1.75E+00
	RB-83	520.41		46.00	5.09E-01	5.09E-01	-1.92E-01	2.44E-01
		529.64		30.30	7.61E-01		-4.13E-01	3.65E-01
		552.65		16.40	1.46E+00		7.45E-02	7.02E-01
	KR-85	513.99		0.43	5.02E+01	5.02E+01	-2.98E+01	2.42E+01
	SR-85	513.99		99.27	2.86E-01	2.86E-01	-1.70E-01	1.38E-01
	Y-88	898.02		93.40	3.75E-01	2.92E-01	1.68E-01	1.80E-01
		1836.01		99.38	2.92E-01		2.04E-01	1.35E-01
	NB-93M	16.57		9.43	2.95E+04	2.95E+04	4.46E+04	1.46E+04
	NB-94	702.63		100.00	2.72E-01	2.72E-01	1.72E-01	1.31E-01
		871.10		100.00	2.81E-01		8.89E-02	1.35E-01
	NB-95	765.79		99.81	7.65E-01	7.65E-01	2.80E+00	3.74E-01
+	NB-95M	235.69	*	25.00	2.58E+02	2.58E+02	6.99E+02	1.28E+02
	ZR-95	724.18		43.70	7.48E-01	5.63E-01	-1.90E-01	3.60E-01
		756.72		55.30	5.63E-01		2.22E-01	2.70E-01
	MO-99	181.06		6.20	2.11E+03	1.07E+03	1.09E+03	1.04E+03
		739.58		12.80	1.07E+03		-6.61E+02	5.13E+02
		778.00		4.50	2.89E+03		2.28E+02	1.38E+03
	RU-103	497.08		89.00	3.46E-01	3.46E-01	-9.20E-03	1.66E-01
	RU-106	621.84		9.80	2.35E+00	2.35E+00	-6.06E-01	1.13E+00
	AG-108M	433.93		89.90	2.32E-01	2.32E-01	-2.37E-02	1.12E-01
		614.37		90.40	3.22E-01		-7.67E-03	1.56E-01
		722.95		90.50	2.88E-01		-4.85E-02	1.38E-01
+	CD-109	88.03	*	3.72	2.20E+01	2.20E+01	2.15E+01	1.10E+01
	AG-110M	657.75		93.14	2.60E-01	2.60E-01	4.72E-02	1.25E-01
		677.61		10.53	2.30E+00		6.92E-01	1.10E+00
		706.67		16.46	1.70E+00		9.25E-01	8.19E-01

Analysis Report for 1507182-09

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	1.46E+00	2.60E-01	-1.11E+01	7.04E-01
		884.67		71.63	4.09E-01		4.95E-02	1.96E-01
		1384.27		23.94	1.49E+00		7.05E-02	7.08E-01
	CD-113M	263.70		0.02	9.70E+02	9.70E+02	4.88E+01	4.75E+02
	SN-113	255.12		1.93	1.77E+01	4.00E-01	5.19E+01	8.73E+00
		391.69		64.90	4.00E-01		-3.03E-01	1.95E-01
+	TE123M	159.00	*	84.10	2.78E-01	2.78E-01	1.91E-01	1.37E-01
	SB-124	602.71		97.87	3.41E-01	3.41E-01	-9.50E-02	1.65E-01
		645.85		7.26	4.02E+00		-4.64E-01	1.93E+00
		722.78		11.10	3.13E+00		-5.28E-01	1.51E+00
		1691.02		49.00	7.00E-01		-2.69E-02	3.25E-01
	I-125	35.49		6.49	1.84E+01	1.84E+01	1.47E+01	9.02E+00
	SB-125	176.33		6.89	3.37E+00	8.75E-01	-2.75E-01	1.66E+00
		427.89		29.33	8.75E-01		7.97E-01	4.26E-01
		463.38		10.35	2.13E+00		1.33E+00	1.03E+00
		600.56		17.80	1.47E+00		4.73E-02	7.11E-01
		635.90		11.32	2.01E+00		3.47E-01	9.63E-01
	SB-126	414.70		83.30	1.17E+00	9.35E-01	5.43E-01	5.68E-01
		666.33		99.60	1.24E+00		2.57E+00	6.00E-01
		695.00		99.60	9.35E-01		-5.47E-01	4.48E-01
		720.50		53.80	2.08E+00		1.66E+00	1.00E+00
+	SN-126	87.57	*	37.00	2.14E+00	2.14E+00	2.08E+00	1.06E+00
	SB-127	473.00		25.00	7.63E+01	5.47E+01	-5.53E+00	3.68E+01
		685.20		35.70	5.47E+01		-5.12E+01	2.62E+01
		783.80		14.70	1.94E+02		3.08E+02	9.39E+01
	I-129	29.78		57.00	4.06E+00	4.06E+00	-9.87E+00	1.99E+00
		33.60		13.20	8.59E+00		-9.74E+00	4.21E+00
		39.58		7.52	7.18E+00		-1.11E+00	3.52E+00
	I-131	284.30		6.05	3.49E+01	2.18E+00	-3.29E+00	1.71E+01
		364.48		81.20	2.18E+00		-9.55E-01	1.06E+00
		636.97		7.26	2.62E+01		2.53E+00	1.26E+01
		722.89		1.80	1.26E+02		-2.12E+01	6.05E+01
	TE-132	49.72		13.10	5.32E+02	5.46E+01	1.18E+03	2.62E+02
		228.16		88.00	5.46E+01		3.18E+01	2.68E+01
	BA-133	81.00		33.00	8.30E-01	3.65E-01	3.26E+00	4.11E-01
		302.84		17.80	1.49E+00		-1.33E+00	7.31E-01
		356.01		60.00	3.65E-01		4.81E-02	1.78E-01
	I-133	529.87		86.30	1.10E+08	1.10E+08	-1.35E+08	5.27E+07
+	XE-133	81.00	*	38.00	5.83E+01	5.83E+01	7.22E+01	2.90E+01
	CS-134	563.23		8.38	2.50E+00	3.02E-01	4.55E-01	1.20E+00
		569.32		15.43	1.31E+00		-6.26E-01	6.26E-01
		604.70		97.60	4.35E-01		-2.80E-02	2.13E-01
		795.84		85.40	3.02E-01		5.25E-02	1.45E-01
		801.93		8.73	3.12E+00		1.12E-01	1.50E+00
	CS-135	268.24		16.00	2.04E+00	2.04E+00	-3.94E-01	1.01E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.34E+01	9.91E-01	3.85E+01	6.60E+00
		163.89		4.61	1.85E+01		1.26E+01	9.13E+00
		176.55		13.56	6.35E+00		-3.87E-01	3.13E+00
		273.65		12.66	8.04E+00		-1.73E+01	3.95E+00
		340.57		48.50	1.91E+00		2.63E-01	9.34E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	818.50		99.70	9.91E-01	9.91E-01	5.63E-02	4.76E-01
		1048.07		79.60	1.36E+00		-5.85E-01	6.49E-01
		1235.34		19.70	9.68E+00		1.32E+01	4.70E+00
	CS-137	661.65		85.12	2.75E-01	2.75E-01	4.46E-02	1.32E-01
	LA-138	788.74		34.00	9.27E-01	4.54E-01	1.53E+00	4.48E-01
		1435.80		66.00	4.54E-01		3.36E-01	2.14E-01
	CE-139	165.85		80.35	3.19E-01	3.19E-01	-1.51E-02	1.57E-01
	BA-140	162.64		6.70	1.32E+01	3.15E+00	5.92E+00	6.50E+00
		304.84		4.50	2.11E+01		4.16E+00	1.03E+01
		423.70		3.20	2.97E+01		2.40E+00	1.44E+01
		437.55		2.00	4.13E+01		1.91E+01	2.00E+01
		537.32		25.00	3.15E+00		-9.46E-01	1.51E+00
	LA-140	328.77		20.50	5.07E+00	1.40E+00	1.11E+01	2.48E+00
		487.03		45.50	1.95E+00		2.38E+00	9.44E-01
		815.85		23.50	4.29E+00		-9.31E-01	2.06E+00
		1596.49		95.49	1.40E+00		5.91E-01	6.66E-01
	CE-141	145.44		48.40	9.84E-01	9.84E-01	3.32E+00	4.86E-01
	CE-143	57.36		11.80	6.21E+05	3.68E+05	-4.42E+05	3.06E+05
		293.26		42.00	3.68E+05		4.72E+05	1.82E+05
		664.55		5.20	1.78E+06		2.61E+06	8.63E+05
	CE-144	133.54		10.80	2.05E+00	2.05E+00	-1.47E+00	1.01E+00
	PM-144	476.78		42.00	5.11E-01	2.38E-01	-1.37E-02	2.47E-01
		618.01		98.60	2.38E-01		1.61E-02	1.14E-01
		696.49		99.49	2.45E-01		-4.93E-02	1.17E-01
	PM-145	36.85		21.70	3.49E+00	1.79E+00	2.25E+00	1.71E+00
		37.36		39.70	1.79E+00		1.16E+00	8.79E-01
		42.30		15.10	2.84E+00		-8.58E-01	1.39E+00
		72.40		2.31	9.69E+00		-1.85E+01	4.78E+00
	PM-146	453.90		39.94	5.29E-01	5.29E-01	1.75E-01	2.56E-01
		735.90		14.01	1.81E+00		4.67E-01	8.71E-01
		747.13		13.10	1.89E+00		-7.06E-01	9.08E-01
	ND-147	91.11		28.90	4.25E+00	4.25E+00	-2.18E+01	2.10E+00
		531.02		13.10	7.13E+00		-2.87E+00	3.42E+00
+	PM-149	285.90	*	3.10	3.16E+04	3.16E+04	2.68E+04	1.56E+04
	EU-152	121.78		20.50	9.81E-01	9.81E-01	4.86E-01	4.83E-01
		244.69		5.40	4.95E+00		-3.80E+01	2.43E+00
		344.27		19.13	1.20E+00		-2.31E-01	5.83E-01
		778.89		9.20	2.52E+00		1.94E-01	1.21E+00
		964.01		10.40	2.70E+00		-1.22E+00	1.29E+00
		1085.78		7.22	3.43E+00		-1.15E+00	1.62E+00
		1112.02		9.60	2.86E+00		-2.28E-01	1.36E+00
		1407.95		14.94	2.99E+00		4.40E+00	1.44E+00
	GD-153	97.43		31.30	7.35E-01	7.35E-01	-2.71E+00	3.63E-01
		103.18		22.20	9.43E-01		-2.26E-01	4.65E-01
	EU-154	123.07		40.50	5.03E-01	5.03E-01	4.85E-01	2.48E-01
		723.30		19.70	1.33E+00		-2.24E-01	6.39E-01
		873.19		11.50	2.40E+00		-3.84E-01	1.15E+00
		996.32		10.30	2.75E+00		8.10E-01	1.31E+00
		1004.76		17.90	1.57E+00		4.02E-01	7.51E-01
		1274.45		35.50	7.31E-01		-3.33E-02	3.44E-01
	EU-155	86.50		30.90	1.01E+00	9.55E-01	-6.87E+00	5.02E-01
		105.30		20.70	9.55E-01		-2.08E-01	4.71E-01
	EU-156	811.77		10.40	7.91E+00	7.91E+00	-2.02E+00	3.80E+00

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	1.76E+01	7.91E+00	2.39E+01	8.48E+00
		1230.71		8.90	9.30E+00		3.29E+00	4.39E+00
	HO-166M	184.41		72.60	4.18E-01	4.18E-01	-7.40E-01	2.06E-01
		280.45		29.60	7.59E-01		-2.13E-01	3.71E-01
		410.94		11.10	2.11E+00		-1.73E-01	1.03E+00
		711.69		54.10	4.32E-01		1.29E-02	2.07E-01
	TM-171	66.72		0.14	2.91E+02	2.91E+02	2.43E+03	1.44E+02
	HF-172	81.75		4.52	6.03E+00	1.82E+00	-5.17E+01	2.98E+00
		125.81		11.30	1.82E+00		-6.11E-01	8.97E-01
	LU-172	181.53		20.60	1.54E+01	5.79E+00	5.14E+00	7.58E+00
		810.06		16.63	2.24E+01		-1.90E+00	1.08E+01
		912.12		15.25	2.75E+01		1.89E+01	1.32E+01
		1093.66		62.50	5.79E+00		2.72E+00	2.75E+00
	LU-173	100.72		5.24	3.90E+00	1.80E+00	-6.40E-01	1.92E+00
		272.11		21.20	1.80E+00		5.71E+00	8.90E-01
	HF-175	343.40		84.00	3.49E-01	3.49E-01	-1.13E-01	1.70E-01
	LU-176	88.34		13.30	2.28E+00	2.38E-01	5.41E+00	1.13E+00
		201.83		86.00	2.68E-01		-1.66E-01	1.32E-01
		306.78		94.00	2.38E-01		5.95E-02	1.16E-01
+	TA-182	67.75	*	41.20	1.18E+00	1.18E+00	1.21E+01	5.86E-01
		1121.30	*	34.90	1.59E+00		1.85E+01	7.74E-01
		1189.05		16.23	1.98E+00		6.07E-01	9.38E-01
		1221.41		26.98	1.18E+00		3.35E-01	5.58E-01
		1231.02		11.44	2.77E+00		1.16E+00	1.31E+00
	IR-192	308.46		29.68	9.28E-01	5.49E-01	1.61E-01	4.53E-01
		468.07		48.10	5.49E-01		1.67E-01	2.65E-01
	HG-203	279.19		77.30	4.25E-01	4.25E-01	-8.84E-02	2.08E-01
	BI-207	569.67		97.72	2.02E-01	2.02E-01	-9.68E-02	9.68E-02
		1063.62		74.90	3.29E-01		-7.12E-02	1.56E-01
	TL-208	583.14		30.22	8.93E-01	5.80E-01	1.02E+00	4.33E-01
		860.37		4.48	5.74E+00		-2.78E+00	2.75E+00
		2614.66		35.85	5.80E-01		6.39E-01	2.63E-01
	BI-210M	262.00		45.00	5.07E-01	5.07E-01	1.51E-01	2.48E-01
		300.00		23.00	1.19E+00		4.50E-01	5.84E-01
+	PB-210	46.50	*	4.25	1.73E+01	1.73E+01	6.05E+01	8.57E+00
+	PB-211	404.84	*	2.90	1.64E+01	1.08E+01	2.21E+01	8.11E+00
		831.96	*	2.90	1.08E+01		1.74E+01	5.23E+00
	BI-212	727.17		11.80	2.07E+00	2.07E+00	3.15E-01	9.96E-01
		1620.62		2.75	1.01E+01		7.45E-01	4.73E+00
+	PB-212	238.63	*	44.60	1.18E+00	1.18E+00	5.89E-01	5.85E-01
		300.09	*	3.41	1.74E+01		1.90E+01	8.61E+00
+	BI-214	609.31	*	46.30	8.38E-01	8.38E-01	3.63E+01	4.10E-01
		1120.29	*	15.10	3.16E+00		3.68E+01	1.54E+00
		1764.49	*	15.80	1.96E+00		4.12E+01	9.20E-01
		2204.22	*	4.98	3.52E+00		3.88E+01	1.56E+00
+	PB-214	295.21	*	19.19	3.05E+00	9.79E-01	4.16E+01	1.51E+00
		351.92	*	37.19	9.79E-01		4.48E+01	4.82E-01
+	RN-219	401.80	*	6.50	7.31E+00	7.31E+00	1.12E+01	3.61E+00
+	RA-223	323.87	*	3.88	6.71E+00	6.71E+00	1.12E+01	3.29E+00
	RA-224	240.98		3.95	1.05E+01	1.05E+01	7.88E+01	5.18E+00
	RA-225	40.00		31.00	5.41E+00	5.41E+00	-8.35E-01	2.66E+00
+	RA-226	186.21	*	3.28	1.12E+01	1.12E+01	6.25E+01	5.55E+00
+	TH-227	50.10	*	8.40	7.34E+00	4.54E+00	6.96E+00	3.64E+00

00596

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00	*	11.50	4.54E+00	4.54E+00	1.23E+01	2.25E+00
		256.20	*	6.30	6.30E+00		1.23E+01	3.11E+00
+	AC-228	338.32	*	11.40	3.25E+00	1.52E+00	1.60E+00	1.60E+00
		911.07	*	27.70	1.52E+00		9.00E-01	7.40E-01
		969.11		16.60	1.63E+00		-8.83E-01	7.79E-01
	TH-230	48.44		16.90	2.02E+00	2.02E+00	-1.33E+01	9.96E-01
		62.85		4.60	5.51E+00		1.71E+00	2.72E+00
		67.67		0.37	1.09E+02		1.21E+03	5.43E+01
+	PA-231	283.67		1.60	1.52E+01	1.52E+01	-1.43E+00	7.42E+00
		302.67	*	2.30	2.59E+01		1.37E+01	1.28E+01
+	TH-231	25.64		14.70	5.27E+01	1.24E+01	-4.00E+01	2.59E+01
		84.21	*	6.40	1.24E+01		3.33E+01	6.20E+00
	PA-233	311.98		38.60	1.10E+00	1.10E+00	-7.03E-01	5.35E-01
	PA-234	131.20		20.40	1.03E+00	1.03E+00	-3.01E-02	5.07E-01
		733.99		8.80	2.86E+00		1.01E+00	1.38E+00
		946.00		12.00	2.38E+00		1.40E+00	1.14E+00
	PA-234M	1001.03		0.92	3.11E+01	3.11E+01	8.70E+00	1.49E+01
	TH-234	63.29		3.80	6.61E+00	6.61E+00	2.05E+00	3.26E+00
	U-235	143.76		10.50	2.66E+00	2.66E+00	1.00E+01	1.32E+00
		163.35		4.70	4.84E+00		2.17E+00	2.39E+00
		205.31		4.70	5.01E+00		3.56E+00	2.46E+00
	NP-237	86.50		12.60	2.46E+00	2.46E+00	-1.67E+01	1.22E+00
	NP-239	106.10		22.70	1.39E+03	1.39E+03	4.08E+02	6.86E+02
		228.18		10.70	3.48E+03		2.02E+03	1.71E+03
		277.60		14.10	2.54E+03		-5.35E+02	1.24E+03
	AM-241	59.54		35.90	6.84E-01	6.84E-01	-1.03E-01	3.37E-01
+	AM-243	74.67	*	66.00	1.26E+00	1.26E+00	3.90E+00	6.26E-01
	CM-243	209.75		3.29	7.26E+00	1.60E+00	4.38E+00	3.57E+00
		228.14		10.60	2.18E+00		1.27E+00	1.07E+00
		277.60		14.00	1.60E+00		-3.35E-01	7.80E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507182-09

FEEBRIS1D-16 050-051

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-16 050-051

Elapsed Live time: 3600
Elapsed Real Time: 3604

Channel								
1:	0	0	0	0	0	1	0	288
9:	686	1304	1288	927	1357	2101	1560	1402
17:	482	834	504	292	278	278	260	299
25:	316	285	362	390	285	279	299	406
33:	351	267	285	332	372	303	312	337
41:	296	332	336	380	358	667	1333	412
49:	352	613	539	338	456	496	423	398
57:	414	474	494	507	552	555	655	691
65:	646	655	1242	3435	1006	564	591	608
73:	686	864	2127	1068	2657	1919	698	845
81:	1307	976	699	2048	867	539	1026	1085
89:	659	698	524	397	482	654	905	422
97:	389	491	336	338	334	308	340	339
105:	278	323	322	342	289	280	300	318
113:	359	339	277	296	320	278	296	263
121:	275	343	332	312	280	279	303	309
129:	337	310	324	289	307	318	293	308
137:	333	330	316	317	351	367	377	911
145:	574	316	317	326	327	324	312	332
153:	342	636	518	284	333	279	395	330
161:	273	293	278	304	295	272	258	265
169:	282	276	249	254	264	252	274	263
177:	278	251	268	280	269	238	304	274
185:	327	1068	831	303	262	248	257	256
193:	234	232	259	257	255	264	246	209
201:	257	202	209	249	244	231	215	210
209:	223	226	282	204	206	205	191	192
217:	203	210	195	187	207	177	181	197
225:	162	191	187	189	192	199	183	171
233:	174	172	291	767	363	234	290	185
241:	408	1452	563	160	161	129	146	154
249:	156	171	172	154	196	247	193	405
257:	301	178	228	180	143	164	133	151
265:	133	144	141	125	484	658	569	386
273:	165	170	179	134	142	125	143	135
281:	148	128	142	200	124	188	167	141
289:	101	139	112	117	121	358	2518	1666
297:	148	122	138	302	180	185	195	151
305:	139	131	96	113	117	102	108	118
313:	129	116	138	113	115	102	106	101
321:	101	84	141	268	135	89	110	126
329:	141	253	145	104	116	126	126	107
337:	129	174	186	98	115	116	116	94
345:	90	110	103	89	114	216	1803	4851
353:	1334	104	111	72	96	74	80	85
361:	95	68	71	93	71	81	78	88

00599

369:	72	76	94	92	81	85	73	74

Sample Title: FEEBRIS1D-16 050-051

Channel								
377:	81	71	97	86	75	89	62	91
385:	98	72	124	78	125	98	82	76
393:	98	66	83	78	88	80	89	73
401:	164	274	90	116	222	105	89	98
409:	95	75	76	83	103	92	94	65
417:	92	75	85	75	83	92	90	98
425:	81	88	128	116	81	62	67	70
433:	53	67	63	62	64	75	58	64
441:	44	63	58	70	104	83	64	57
449:	47	62	48	53	50	69	75	51
457:	50	57	46	56	66	78	71	51
465:	45	53	51	50	67	61	56	52
473:	54	59	56	63	40	43	62	88
481:	77	54	51	43	56	52	93	65
489:	53	42	38	55	46	38	51	44
497:	49	42	45	41	58	50	43	38
505:	36	53	46	43	56	106	102	65
513:	64	46	45	46	40	39	42	35
521:	43	42	49	45	42	46	47	39
529:	34	35	35	37	55	56	36	33
537:	55	43	48	44	38	25	49	47
545:	41	47	38	37	37	44	37	34
553:	40	38	39	38	27	33	44	42
561:	42	43	43	30	47	36	35	38
569:	34	35	44	50	40	46	26	41
577:	32	28	42	64	52	47	66	44
585:	40	32	41	28	34	33	33	27
593:	31	36	40	42	45	51	45	43
601:	38	33	43	39	47	37	42	547
609:	2974	1832	178	29	40	31	26	30
617:	38	34	26	33	26	32	19	29
625:	38	28	28	25	25	24	33	21
633:	34	32	28	26	21	31	31	26
641:	29	24	38	27	23	21	21	23
649:	37	33	26	19	32	17	32	22
657:	26	30	40	26	22	24	32	35
665:	107	92	33	34	22	23	26	26
673:	22	21	29	23	26	25	30	34
681:	22	26	26	20	21	23	26	22
689:	31	38	22	28	15	24	24	29
697:	27	39	32	36	30	38	49	36
705:	40	30	26	22	34	27	22	27
713:	27	27	25	25	31	30	47	49
721:	40	29	31	28	32	18	29	34
729:	33	24	25	24	31	26	37	33
737:	31	23	25	25	32	26	45	26
745:	27	31	22	39	26	20	32	23
753:	40	18	32	21	16	21	26	34
761:	41	21	25	25	29	49	86	281
769:	188	36	35	28	23	28	23	22
777:	22	30	24	20	20	19	21	26
785:	76	75	53	25	23	25	16	27
793:	17	23	32	33	23	22	31	25

801:	28	28	22	26	40	76	52	24

Sample Title: FEEBRIS1D-16 050-051

Channel								
809:	32	29	29	19	30	27	20	31
817:	27	17	32	34	29	24	26	30
825:	33	25	33	24	26	32	69	68
833:	46	24	10	23	25	34	63	38
841:	30	28	22	19	19	24	31	23
849:	29	35	23	20	33	33	32	27
857:	21	22	26	21	31	20	25	34
865:	32	25	26	26	33	19	26	35
873:	29	28	27	22	27	27	27	21
881:	25	28	32	24	25	24	22	24
889:	26	28	25	25	27	26	29	19
897:	36	31	33	31	30	21	28	37
905:	24	22	35	27	34	30	48	45
913:	25	19	25	19	24	24	19	19
921:	14	36	21	17	13	30	24	21
929:	19	30	22	28	85	148	71	36
937:	24	23	20	24	14	21	20	27
945:	21	27	33	25	23	25	18	16
953:	24	16	20	23	12	27	28	23
961:	20	22	26	42	22	15	16	25
969:	32	23	21	19	24	19	23	23
977:	23	23	29	21	24	9	22	21
985:	31	12	23	29	16	24	18	17
993:	25	20	17	20	28	17	29	22
1001:	21	15	33	23	17	18	25	18
1009:	12	19	19	24	22	21	20	24
1017:	18	17	17	10	10	14	7	15
1025:	20	16	22	15	17	15	28	10
1033:	23	29	13	16	16	17	17	15
1041:	21	18	19	27	25	20	23	17
1049:	16	19	31	34	20	19	14	13
1057:	10	9	10	9	17	20	12	18
1065:	19	10	21	23	14	13	13	14
1073:	17	19	10	13	21	18	27	17
1081:	18	17	8	18	17	12	15	15
1089:	16	17	16	21	17	12	22	17
1097:	13	12	17	16	16	17	16	24
1105:	19	15	19	20	17	15	16	19
1113:	17	22	16	19	18	35	224	524
1121:	333	74	19	11	25	11	13	15
1129:	17	13	24	22	19	23	14	16
1137:	12	14	14	11	14	19	9	13
1145:	10	16	11	26	19	10	16	17
1153:	21	48	81	64	23	18	15	19
1161:	14	15	18	13	13	14	15	15
1169:	11	16	6	14	19	19	18	15
1177:	13	9	22	11	17	10	17	16
1185:	13	19	20	14	15	14	17	12
1193:	16	10	14	22	9	12	10	12
1201:	10	14	13	10	13	17	26	28
1209:	17	17	9	15	17	17	10	15
1217:	13	21	14	14	11	11	18	15
1225:	14	10	11	19	12	21	14	12

1233:	6	18	9	32	92	204	119	43

Sample Title: FEEBRIS1D-16 050-051

Channel								
1241:	13	9	14	10	12	12	19	12
1249:	9	13	8	12	16	22	16	10
1257:	14	12	10	8	9	12	14	6
1265:	12	10	13	13	9	9	12	12
1273:	10	13	11	14	14	9	14	33
1281:	64	27	13	6	12	8	14	13
1289:	15	12	8	14	15	12	19	15
1297:	17	14	10	9	13	14	14	23
1305:	11	10	16	9	11	11	13	15
1313:	13	11	14	17	8	15	23	12
1321:	14	9	12	8	7	11	11	9
1329:	16	14	12	15	9	9	10	13
1337:	12	5	10	12	8	16	14	16
1345:	12	13	15	12	8	9	10	11
1353:	13	12	13	14	10	17	14	7
1361:	21	6	10	12	9	14	14	11
1369:	9	17	9	8	11	7	17	50
1377:	140	117	41	7	12	12	11	31
1385:	26	17	20	11	14	5	9	8
1393:	5	17	12	8	14	10	15	26
1401:	45	38	12	13	14	15	64	64
1409:	45	16	5	15	13	4	12	10
1417:	10	6	8	14	11	10	8	7
1425:	10	14	15	12	8	7	9	14
1433:	13	12	18	12	14	15	12	7
1441:	16	8	6	9	8	13	17	14
1449:	13	10	12	8	5	12	12	13
1457:	16	10	25	51	71	47	11	13
1465:	6	10	5	9	18	14	10	11
1473:	7	8	7	15	17	9	10	9
1481:	9	15	14	11	15	11	13	10
1489:	21	12	14	17	13	13	11	10
1497:	17	11	14	13	6	15	11	8
1505:	7	13	15	37	74	38	22	13
1513:	13	12	16	9	7	10	5	12
1521:	12	13	13	24	21	11	13	13
1529:	6	13	14	9	16	15	7	11
1537:	6	18	18	17	15	20	17	20
1545:	9	9	13	10	9	8	6	7
1553:	13	7	10	12	13	8	13	9
1561:	11	9	9	12	6	8	11	5
1569:	9	6	2	8	7	9	7	11
1577:	9	4	9	9	13	12	32	23
1585:	11	10	9	8	11	8	7	9
1593:	15	12	12	13	6	10	21	16
1601:	10	9	8	5	9	12	5	11
1609:	7	9	8	4	8	7	6	6
1617:	3	13	8	7	7	9	9	9
1625:	8	9	7	7	5	6	4	6
1633:	6	8	7	2	4	10	3	3
1641:	4	6	6	5	7	3	5	8
1649:	9	7	8	3	4	3	9	5
1657:	3	3	4	18	28	23	12	8

1665:	4	3	2	3	2	3	5	1

Sample Title: FEEBRIS1D-16 050-051

Channel								
1673:	5	4	2	2	7	3	5	1
1681:	8	5	8	10	2	6	3	8
1689:	8	4	2	4	10	12	5	9
1697:	7	6	1	7	7	1	2	6
1705:	6	3	7	3	4	3	1	2
1713:	6	2	2	7	2	3	2	1
1721:	6	3	5	3	8	3	13	47
1729:	64	70	27	5	4	2	4	0
1737:	2	2	3	6	5	4	3	6
1745:	5	3	6	6	3	4	0	1
1753:	6	4	6	3	2	3	6	5
1761:	3	45	189	359	263	72	19	3
1769:	5	2	3	3	6	2	1	5
1777:	4	3	2	1	6	4	5	3
1785:	2	1	4	3	6	3	3	4
1793:	4	4	3	2	9	5	2	2
1801:	2	6	5	2	2	3	3	5
1809:	3	1	1	2	5	2	5	3
1817:	2	3	4	3	2	2	4	1
1825:	6	3	4	1	3	1	4	3
1833:	2	4	4	1	6	14	10	7
1841:	3	2	7	7	10	30	41	40
1849:	12	4	3	2	3	4	5	5
1857:	4	4	2	2	2	2	2	3
1865:	5	4	4	2	3	1	9	7
1873:	11	4	4	4	3	2	2	6
1881:	0	3	6	4	5	1	7	2
1889:	4	5	4	4	1	2	1	7
1897:	2	5	3	2	3	3	3	3
1905:	0	1	1	0	4	6	5	3
1913:	4	2	4	3	4	4	2	4
1921:	4	3	0	2	3	5	0	3
1929:	2	2	2	2	3	4	9	8
1937:	6	7	1	2	1	4	2	6
1945:	2	6	5	2	2	3	0	3
1953:	5	4	3	1	1	5	4	5
1961:	4	3	4	2	3	4	4	4
1969:	1	3	4	0	4	2	3	2
1977:	2	2	3	1	6	3	2	2
1985:	4	2	6	3	2	0	1	2
1993:	3	2	0	3	1	1	1	2
2001:	4	1	1	1	1	2	1	9
2009:	6	4	2	0	3	3	2	3
2017:	3	9	0	1	3	2	3	3
2025:	2	1	1	6	2	3	2	2
2033:	4	1	4	4	4	1	3	2
2041:	1	3	3	2	0	1	2	0
2049:	1	1	2	3	6	3	2	0
2057:	1	1	2	2	3	0	2	3
2065:	2	1	0	1	0	1	0	1
2073:	0	1	3	2	0	1	0	2
2081:	2	0	3	0	2	3	2	2
2089:	1	0	1	1	2	1	2	1

00603

2097:	0	2	3	0	2	1	3	2

Sample Title: FEEBRIS1D-16 050-051

Channel								
2105:	2	1	2	4	1	3	1	0
2113:	2	1	1	5	13	28	18	7
2121:	5	2	1	2	0	5	0	2
2129:	1	4	1	1	1	1	2	1
2137:	2	2	0	0	0	3	0	1
2145:	2	1	1	0	0	1	2	1
2153:	0	0	2	1	1	1	1	2
2161:	0	1	2	1	1	0	2	1
2169:	1	0	0	0	1	0	0	1
2177:	0	1	2	0	3	3	2	0
2185:	1	1	3	1	2	0	3	1
2193:	0	3	1	0	1	5	1	1
2201:	6	40	73	79	51	12	2	0
2209:	2	0	2	1	1	1	1	0
2217:	2	2	1	0	1	1	2	2
2225:	0	0	3	0	0	0	0	1
2233:	0	1	1	0	0	1	0	2
2241:	0	0	3	1	1	0	1	1
2249:	1	1	0	1	1	0	0	0
2257:	1	0	3	0	0	0	0	1
2265:	1	0	1	3	1	0	0	0
2273:	0	0	1	0	0	1	0	0
2281:	0	0	0	1	1	1	0	0
2289:	0	0	3	5	7	1	1	1
2297:	0	1	1	0	0	0	0	1
2305:	2	0	4	1	0	1	0	1
2313:	0	1	0	3	2	0	0	1
2321:	0	0	0	0	1	0	0	1
2329:	0	1	0	1	2	0	1	0
2337:	2	0	0	0	0	0	0	1
2345:	1	0	0	1	0	0	0	1
2353:	1	1	0	2	0	0	0	0
2361:	0	1	0	0	1	0	0	0
2369:	1	0	0	0	0	1	0	1
2377:	0	0	1	2	0	0	1	1
2385:	0	1	0	0	1	0	1	0
2393:	0	0	0	1	0	0	0	0
2401:	0	1	1	1	0	0	0	0
2409:	0	0	0	1	0	2	1	1
2417:	0	1	0	0	0	0	0	1
2425:	0	0	1	1	2	0	1	1
2433:	2	0	1	0	0	0	0	0
2441:	0	2	0	3	11	12	25	18
2449:	7	1	3	0	0	1	0	0
2457:	0	4	1	1	1	0	2	0
2465:	1	0	1	1	0	0	0	0
2473:	0	0	1	0	0	0	0	0
2481:	1	2	0	0	1	1	0	1
2489:	0	0	0	0	0	0	0	1
2497:	1	0	0	0	0	0	0	0
2505:	0	0	0	0	1	1	2	0
2513:	0	1	0	0	1	0	1	0
2521:	0	1	0	0	0	1	0	0

2529:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-16 050-051

Channel								
2537:	0	0	0	1	1	0	0	1
2545:	0	0	0	0	0	0	1	1
2553:	0	0	0	0	0	0	0	0
2561:	0	0	0	0	0	0	0	0
2569:	0	0	1	1	0	1	1	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	0	0	0	0	0	0
2593:	0	0	1	1	0	0	0	0
2601:	1	1	1	0	1	1	0	0
2609:	0	0	1	4	7	10	7	1
2617:	2	0	0	0	0	0	0	0
2625:	1	0	1	0	0	0	0	0
2633:	0	1	0	0	1	0	0	0
2641:	0	0	0	0	0	0	1	1
2649:	0	0	0	0	0	0	0	0
2657:	0	0	0	0	0	1	1	0
2665:	0	0	0	0	1	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	0	0	0	1	0	0	0	0
2689:	0	0	0	0	0	1	0	2
2697:	0	0	0	0	2	0	0	0
2705:	1	0	0	0	1	0	1	0
2713:	0	0	0	0	0	0	0	0
2721:	1	0	0	0	0	1	0	0
2729:	0	0	0	0	0	0	2	0
2737:	2	0	0	0	0	0	0	1
2745:	0	0	0	2	0	0	1	0
2753:	0	0	0	0	0	0	0	1
2761:	1	0	0	0	1	1	1	0
2769:	0	0	1	0	1	0	0	0
2777:	0	0	0	0	0	0	1	0
2785:	1	0	2	0	0	0	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	1	0	0	2	0	0
2809:	1	1	0	0	1	0	0	1
2817:	0	1	0	0	0	0	0	1
2825:	0	0	0	0	0	0	0	0
2833:	0	0	2	0	1	0	0	0
2841:	0	0	0	2	0	0	0	0
2849:	0	0	0	1	0	0	0	0
2857:	1	0	0	0	1	0	1	0
2865:	0	0	0	0	1	1	0	1
2873:	0	0	1	0	1	0	0	0
2881:	0	0	0	0	0	0	0	1
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	1	0	1	0	0
2905:	0	0	0	0	0	0	0	1
2913:	0	0	0	0	0	0	0	0
2921:	1	1	0	0	0	0	0	0
2929:	0	0	0	0	0	1	0	0
2937:	0	0	0	0	0	0	1	0
2945:	0	0	0	0	0	0	0	1
2953:	0	0	1	0	0	1	1	0

2961:	0	0	1	1	0	0	0	0

Sample Title: FEEBRIS1D-16 050-051

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	1	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	2	0
3001:	0	1	0	0	1	0	0	0
3009:	1	0	1	0	1	0	0	0
3017:	1	0	0	0	0	0	0	0
3025:	2	0	1	0	0	1	2	0
3033:	0	0	0	0	0	0	0	0
3041:	0	1	1	0	1	0	0	0
3049:	0	0	0	1	0	0	2	0
3057:	0	0	1	0	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	1	1	0	1	0	0	0	0
3081:	0	0	1	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	1
3105:	0	1	0	0	1	0	0	0
3113:	1	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	1
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	1	0	0	0	0	1
3153:	0	1	0	0	0	0	1	1
3161:	0	0	0	0	0	0	0	0
3169:	0	0	1	0	0	1	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	1	1
3201:	0	0	0	0	1	0	0	0
3209:	0	0	0	1	0	0	0	0
3217:	0	0	0	0	0	1	0	0
3225:	0	0	1	1	0	0	0	1
3233:	1	0	0	0	0	1	0	0
3241:	0	0	0	0	0	0	0	3
3249:	0	1	0	0	0	0	1	0
3257:	2	0	0	2	0	0	0	0
3265:	0	0	0	0	2	0	0	1
3273:	0	0	1	0	0	0	0	0
3281:	0	0	1	0	0	0	0	0
3289:	0	0	0	0	0	0	0	1
3297:	0	1	0	0	0	0	0	0
3305:	1	0	0	0	0	0	0	0
3313:	0	1	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	1
3329:	1	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	1	0	0	0
3361:	0	0	0	0	0	1	0	0
3369:	0	0	1	1	1	0	0	1
3377:	1	0	0	0	0	0	0	0
3385:	0	0	1	0	0	0	0	0

3393:	1	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-16 050-051

Channel								
3401:	0	0	0	0	1	0	0	1
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	1	0	1	0
3425:	1	1	0	0	0	0	0	0
3433:	0	0	0	0	1	0	0	0
3441:	1	0	0	0	0	0	1	0
3449:	0	0	1	0	1	1	0	0
3457:	0	1	0	0	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	1	0	1	0	0	0	0
3481:	0	1	0	0	0	1	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	1	0	0	0	0	1	0
3513:	0	0	0	0	0	0	0	1
3521:	0	0	0	0	0	1	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	1	0	0	1	0
3545:	0	1	1	0	1	0	0	0
3553:	1	0	1	1	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	1	0	0	0	0
3577:	0	0	0	0	0	1	0	1
3585:	0	0	1	0	0	0	0	1
3593:	1	0	1	0	0	1	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	1	0	0	0
3617:	0	1	0	0	0	0	0	0
3625:	0	1	2	0	0	0	0	0
3633:	1	1	0	0	0	0	0	0
3641:	0	0	0	0	0	1	0	0
3649:	0	0	0	1	0	0	0	0
3657:	1	0	0	0	0	0	0	0
3665:	0	0	0	1	1	0	0	0
3673:	0	0	0	0	2	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	1	0	0	1	0	0	0	0
3705:	1	0	1	0	0	0	0	0
3713:	0	0	0	0	0	0	0	1
3721:	0	1	0	0	0	0	3	0
3729:	1	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	1	0
3745:	0	0	0	0	0	0	2	0
3753:	0	0	0	0	0	0	0	0
3761:	0	1	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	1	0	0	1	1	0	0	0
3793:	0	0	1	0	0	0	0	0
3801:	0	0	0	0	2	0	0	1
3809:	0	0	0	0	0	0	0	0
3817:	1	1	0	0	0	0	1	0

00607

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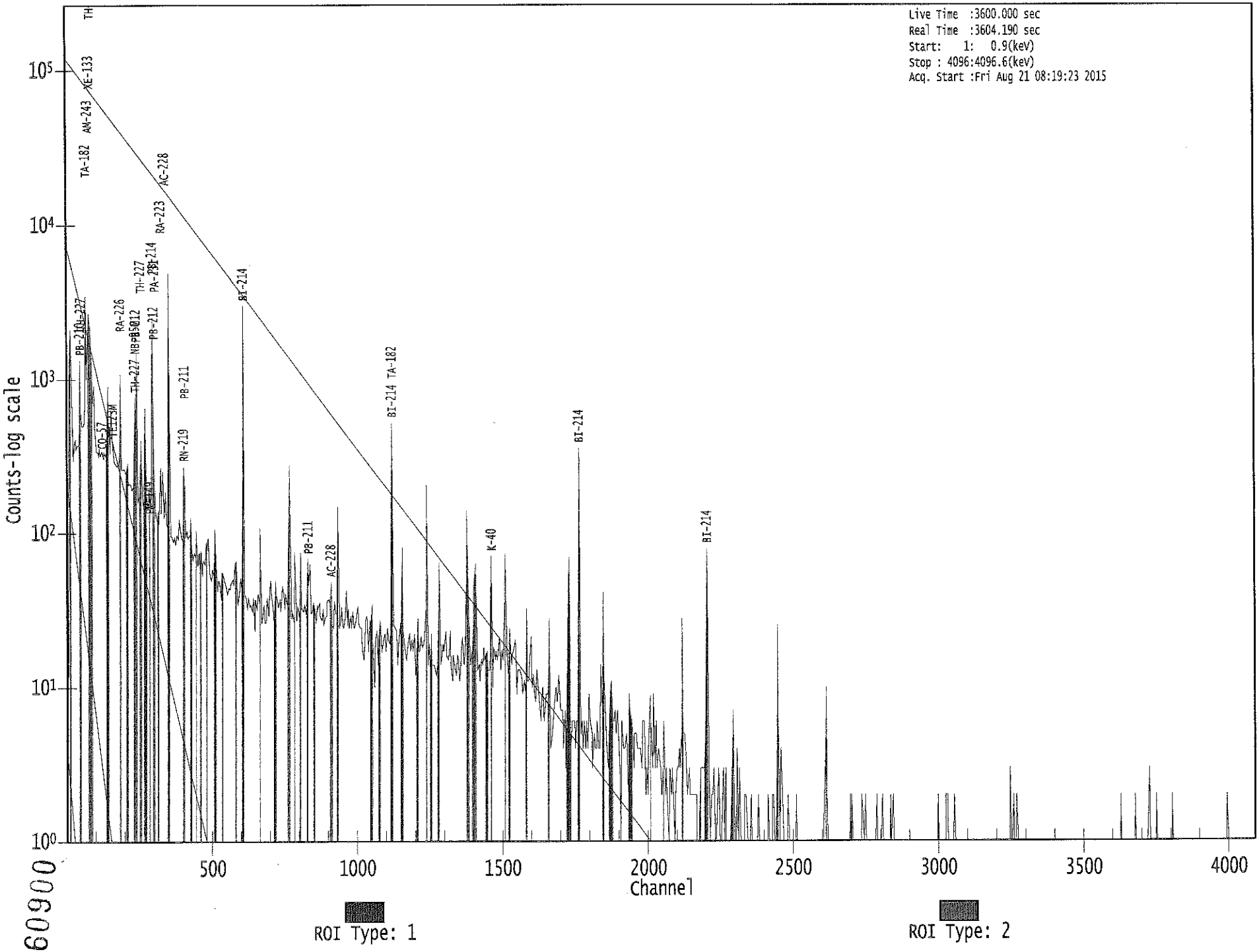
3825:	0	0	0	1	0	1	0	0

Sample Title: FEEBRIS1D-16 050-051

Channel								
3833:	1	0	1	0	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	1	0	1	0	0	1	0	1
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	1	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	0	0	0	0	0	1	0
3937:	0	1	0	0	0	0	0	0
3945:	1	0	0	1	1	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	2	0	0	0	0	1
4001:	0	0	1	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	1	0	0	0	0	0	1	0
4025:	0	0	0	0	0	0	1	1
4033:	0	0	0	0	0	1	0	0
4041:	0	0	0	0	0	0	1	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	0	0	1	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026239.CNF



Apex-Gamma

Analysis Report for 1507182-10
FEEBRIS1D-16 059-061

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GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-10
Sample Description	: FEEBRIS1D-16 059-061
Sample Type	: SOIL
Sample Size	: 6.933E+02 grams
Facility	: Countroom
Sample Taken On	: 7/27/2015 6:47:34AM
Acquisition Started	: 8/21/2015 7:28:54AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3608.0 seconds
Dead Time	: 0.22 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 26234

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 8:29:03AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	45.38	44.63	0.0000	0.00
2	76.43	75.70	0.0000	0.00
3	239.37	238.71	0.0000	0.00
4	270.55	269.90	0.0000	0.00
5	294.37	293.73	0.0000	0.00
6	352.08	351.46	0.0000	0.00
7	510.82	510.28	0.0000	0.00
8	533.69	533.16	0.0000	0.00
9	583.77	583.27	0.0000	0.00
10	609.63	609.14	0.0000	0.00
11	684.74	684.29	0.0000	0.00
12	721.77	721.33	0.0000	0.00
13	862.72	862.35	0.0000	0.00
14	910.44	910.10	0.0000	0.00
15	927.99	927.66	0.0000	0.00
16	968.70	968.39	0.0000	0.00
17	982.54	982.24	0.0000	0.00
18	1122.85	1122.63	0.0000	0.00
19	1238.59	1238.43	0.0000	0.00
20	1286.87	1286.74	0.0000	0.00
21	1360.48	1360.39	0.0000	0.00
22	1378.94	1378.87	0.0000	0.00
23	1461.26	1461.23	0.0000	0.00
24	1586.28	1586.33	0.0000	0.00
25	1705.12	1705.24	0.0000	0.00
26	1765.57	1765.74	0.0000	0.00
27	2325.22	2325.77	0.0000	0.00
28	2615.23	2616.00	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 8:29:03AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
1	45.38	41 -	47	44.63	8.69E+01	58.24	5.54E+02	2.64
2	76.43	71 -	80	75.70	3.17E+02	100.71	1.25E+03	4.02
3	239.37	234 -	246	238.71	2.89E+02	75.86	5.45E+02	2.78
4	270.55	267 -	273	269.90	3.95E+01	38.54	2.41E+02	1.80
5	294.37	289 -	298	293.73	1.06E+02	51.65	3.21E+02	2.60
6	352.08	347 -	356	351.46	1.20E+02	47.96	2.60E+02	2.35
7	510.82	504 -	515	510.28	1.04E+02	36.44	1.13E+02	4.26
8	533.69	530 -	536	533.16	2.37E+01	20.89	6.06E+01	3.04
9	583.77	577 -	588	583.27	8.66E+01	38.57	1.39E+02	2.00
10	609.63	604 -	614	609.14	9.73E+01	34.27	1.05E+02	1.86
11	684.74	679 -	689	684.29	2.55E+01	25.24	7.11E+01	1.52
12	721.77	713 -	732	721.33	3.62E+01	41.33	1.32E+02	10.94
13	862.72	857 -	870	862.35	3.20E+01	25.14	5.60E+01	11.15
14	910.44	903 -	915	910.10	3.33E+01	29.14	8.33E+01	2.86
15	927.99	924 -	930	927.66	1.25E+01	15.96	3.50E+01	2.27
16	968.70	965 -	972	968.39	3.47E+01	20.59	4.65E+01	3.73
17	982.54	978 -	986	982.24	1.60E+01	18.06	4.01E+01	5.75
18	1122.85	1116 -	1129	1122.63	3.78E+01	28.90	7.24E+01	6.76
19	1238.59	1231 -	1247	1238.43	4.21E+01	36.43	1.10E+02	14.10
20	1286.87	1280 -	1294	1286.74	2.53E+01	24.37	4.94E+01	11.20
21	1360.48	1347 -	1368	1360.39	2.60E+01	26.00	4.39E+01	11.50
22	1378.94	1373 -	1384	1378.87	1.40E+01	12.33	1.20E+01	5.16
23	1461.26	1454 -	1466	1461.23	2.79E+02	37.35	3.44E+01	3.12
24	1586.28	1581 -	1592	1586.33	1.08E+01	9.59	6.36E+00	8.41
25	1705.12	1702 -	1707	1705.24	6.50E+00	6.40	3.00E+00	1.37
26	1765.57	1761 -	1769	1765.74	2.30E+01	9.59	0.00E+00	3.25
27	2325.22	2321 -	2328	2325.77	4.71E+00	6.63	4.57E+00	2.73
28	2615.23	2611 -	2619	2616.00	1.80E+01	8.49	0.00E+00	3.21

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 8:29:03AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	45.38	41 -	47	8.69E+01	58.24	5.54E+02	4.54E+01
2	76.43	71 -	80	3.17E+02	100.71	1.25E+03	7.74E+01
3	239.37	234 -	246	2.89E+02	75.86	5.45E+02	5.57E+01
4	270.55	267 -	273	3.95E+01	38.54	2.41E+02	2.99E+01
5	294.37	289 -	298	1.06E+02	51.65	3.21E+02	3.89E+01
6	352.08	347 -	356	1.20E+02	47.96	2.60E+02	3.51E+01
7	510.82	504 -	515	1.04E+02	36.44	1.13E+02	2.48E+01
8	533.69	530 -	536	2.37E+01	20.89	6.06E+01	1.52E+01
9	583.77	577 -	588	8.66E+01	38.57	1.39E+02	2.78E+01
10	609.63	604 -	614	9.73E+01	34.27	1.05E+02	2.30E+01
11	684.74	679 -	689	2.55E+01	25.24	7.11E+01	1.90E+01
12	721.77	713 -	732	3.62E+01	41.33	1.32E+02	3.25E+01
13	862.72	857 -	870	3.20E+01	25.14	5.60E+01	1.85E+01
14	910.44	903 -	915	3.33E+01	29.14	8.33E+01	2.20E+01
15	927.99	924 -	930	1.25E+01	15.96	3.50E+01	1.18E+01
16	968.70	965 -	972	3.47E+01	20.59	4.65E+01	1.39E+01
17	982.54	978 -	986	1.60E+01	18.06	4.01E+01	1.33E+01
18	1122.85	1116 -	1129	3.78E+01	28.90	7.24E+01	2.15E+01
19	1238.59	1231 -	1247	4.21E+01	36.43	1.10E+02	2.80E+01
20	1286.87	1280 -	1294	2.53E+01	24.37	4.94E+01	1.82E+01
21	1360.48	1347 -	1368	2.60E+01	26.00	4.39E+01	1.97E+01
22	1378.94	1373 -	1384	1.40E+01	12.33	1.20E+01	8.05E+00
23	1461.26	1454 -	1466	2.79E+02	37.35	3.44E+01	1.38E+01
24	1586.28	1581 -	1592	1.08E+01	9.59	6.36E+00	5.74E+00
25	1705.12	1702 -	1707	6.50E+00	6.40	3.00E+00	3.18E+00
26	1765.57	1761 -	1769	2.30E+01	9.59	0.00E+00	0.00E+00
27	2325.22	2321 -	2328	4.71E+00	6.63	4.57E+00	4.12E+00
28	2615.23	2611 -	2619	1.80E+01	8.49	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 8:29:03AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	45.38	41 -	47	44.63	8.69E+01	58.24	5.54E+02	.....
2	76.43	71 -	80	75.70	3.17E+02	100.71	1.25E+03	.....
3	239.37	234 -	246	238.71	2.89E+02	75.86	5.45E+02	PB-212
4	270.55	267 -	273	269.90	3.95E+01	38.54	2.41E+02	.....
5	294.37	289 -	298	293.73	1.06E+02	51.65	3.21E+02	PB-214
6	352.08	347 -	356	351.46	1.20E+02	47.96	2.60E+02	PB-214
7	510.82	504 -	515	510.28	1.04E+02	36.44	1.13E+02	.....
8	533.69	530 -	536	533.16	2.37E+01	20.89	6.06E+01	.....
9	583.77	577 -	588	583.27	8.66E+01	38.57	1.39E+02	TL-208
10	609.63	604 -	614	609.14	9.73E+01	34.27	1.05E+02	BI-214
11	684.74	679 -	689	684.29	2.55E+01	25.24	7.11E+01	SB-127
12	721.77	713 -	732	721.33	3.62E+01	41.33	1.32E+02	.....
13	862.72	857 -	870	862.35	3.20E+01	25.14	5.60E+01	.....
14	910.44	903 -	915	910.10	3.33E+01	29.14	8.33E+01	AC-228
15	927.99	924 -	930	927.66	1.25E+01	15.96	3.50E+01	.....
16	968.70	965 -	972	968.39	3.47E+01	20.59	4.65E+01	AC-228
17	982.54	978 -	986	982.24	1.60E+01	18.06	4.01E+01	V-48
18	1122.85	1116 -	1129	1122.63	3.78E+01	28.90	7.24E+01	.....
19	1238.59	1231 -	1247	1238.43	4.21E+01	36.43	1.10E+02	CO-56
20	1286.87	1280 -	1294	1286.74	2.53E+01	24.37	4.94E+01	.....
21	1360.48	1347 -	1368	1360.39	2.60E+01	26.00	4.39E+01	.....
22	1378.94	1373 -	1384	1378.87	1.40E+01	12.33	1.20E+01	.....
23	1461.26	1454 -	1466	1461.23	2.79E+02	37.35	3.44E+01	K-40
24	1586.28	1581 -	1592	1586.33	1.08E+01	9.59	6.36E+00	.....
25	1705.12	1702 -	1707	1705.24	6.50E+00	6.40	3.00E+00	.....
26	1765.57	1761 -	1769	1765.74	2.30E+01	9.59	0.00E+00	.....
27	2325.22	2321 -	2328	2325.77	4.71E+00	6.63	4.57E+00	.....
28	2615.23	2611 -	2619	2616.00	1.80E+01	8.49	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

00614

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 8:29:03AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	45.38	8.69E+01	58.24	2.65E-02	1.78E-03
2	76.43	3.17E+02	100.71	2.12E-02	1.69E-03
3	239.37	2.89E+02	75.86	9.39E-03	9.85E-04
4	270.55	3.95E+01	38.54	8.43E-03	8.88E-04
5	294.37	1.06E+02	51.65	7.80E-03	8.44E-04
6	352.08	1.20E+02	47.96	6.61E-03	7.80E-04
7	510.82	1.04E+02	36.44	4.61E-03	5.61E-04
8	533.69	2.37E+01	20.89	4.42E-03	5.28E-04
9	583.77	8.66E+01	38.57	4.04E-03	4.54E-04
10	609.63	9.73E+01	34.27	3.87E-03	4.17E-04
11	684.74	2.55E+01	25.24	3.45E-03	3.27E-04
12	721.77	3.62E+01	41.33	3.28E-03	3.07E-04
13	862.72	3.20E+01	25.14	2.75E-03	2.28E-04
14	910.44	3.33E+01	29.14	2.61E-03	2.06E-04
15	927.99	1.25E+01	15.96	2.56E-03	2.04E-04
16	968.70	3.47E+01	20.59	2.46E-03	1.99E-04
17	982.54	1.60E+01	18.06	2.43E-03	1.97E-04
18	1122.85	3.78E+01	28.90	2.14E-03	1.79E-04
19	1238.59	4.21E+01	36.43	1.95E-03	1.90E-04
20	1286.87	2.53E+01	24.37	1.89E-03	2.03E-04
21	1360.48	2.60E+01	26.00	1.79E-03	2.10E-04
22	1378.94	1.40E+01	12.33	1.77E-03	2.06E-04
23	1461.26	2.79E+02	37.35	1.68E-03	1.89E-04
24	1586.28	1.08E+01	9.59	1.57E-03	1.63E-04
25	1705.12	6.50E+00	6.40	1.48E-03	1.38E-04
26	1765.57	2.30E+01	9.59	1.43E-03	1.26E-04
27	2325.22	4.71E+00	6.63	1.16E-03	1.11E-04
28	2615.23	1.80E+01	8.49	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 8:29:03AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

00615

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	45.38	8.69E+01	58.24			8.69E+01	5.82E+01
2	76.43	3.17E+02	100.71			3.17E+02	1.01E+02
3	239.37	2.89E+02	75.86			2.89E+02	7.59E+01
4	270.55	3.95E+01	38.54			3.95E+01	3.85E+01
5	294.37	1.06E+02	51.65			1.06E+02	5.17E+01
6	352.08	1.20E+02	47.96			1.20E+02	4.80E+01
7	510.82	1.04E+02	36.44	4.04E+01	4.86E+00	6.40E+01	3.68E+01
8	533.69	2.37E+01	20.89			2.37E+01	2.09E+01
9	583.77	8.66E+01	38.57			8.66E+01	3.86E+01
10	609.63	9.73E+01	34.27	1.70E+00	3.46E+00	9.56E+01	3.44E+01
11	684.74	2.55E+01	25.24			2.55E+01	2.52E+01
12	721.77	3.62E+01	41.33			3.62E+01	4.13E+01
13	862.72	3.20E+01	25.14			3.20E+01	2.51E+01
14	910.44	3.33E+01	29.14			3.33E+01	2.91E+01
15	927.99	1.25E+01	15.96			1.25E+01	1.60E+01
16	968.70	3.47E+01	20.59			3.47E+01	2.06E+01
17	982.54	1.60E+01	18.06			1.60E+01	1.81E+01
18	1122.85	3.78E+01	28.90			3.78E+01	2.89E+01
19	1238.59	4.21E+01	36.43			4.21E+01	3.64E+01
20	1286.87	2.53E+01	24.37			2.53E+01	2.44E+01
21	1360.48	2.60E+01	26.00			2.60E+01	2.60E+01
22	1378.94	1.40E+01	12.33			1.40E+01	1.23E+01
23	1461.26	2.79E+02	37.35			2.79E+02	3.74E+01
24	1586.28	1.08E+01	9.59			1.08E+01	9.59E+00
25	1705.12	6.50E+00	6.40			6.50E+00	6.40E+00
26	1765.57	2.30E+01	9.59			2.30E+01	9.59E+00
27	2325.22	4.71E+00	6.63			4.71E+00	6.63E+00
28	2615.23	1.80E+01	8.49	1.81E+00	1.16E+00	1.62E+01	8.56E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 8:29:03AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	45.38	8.69E+01	58.24			8.69E+01	5.82E+01
2	76.43	3.17E+02	100.71			3.17E+02	1.01E+02
3	239.37	2.89E+02	75.86			2.89E+02	7.59E+01
4	270.55	3.95E+01	38.54			3.95E+01	3.85E+01
5	294.37	1.06E+02	51.65			1.06E+02	5.17E+01
6	352.08	1.20E+02	47.96			1.20E+02	4.80E+01
7	510.82	1.04E+02	36.44	4.04E+01	4.86E+00	6.40E+01	3.68E+01
8	533.69	2.37E+01	20.89			2.37E+01	2.09E+01
9	583.77	8.66E+01	38.57			8.66E+01	3.86E+01
10	609.63	9.73E+01	34.27	1.70E+00	3.46E+00	9.56E+01	3.44E+01
11	684.74	2.55E+01	25.24			2.55E+01	2.52E+01
12	721.77	3.62E+01	41.33			3.62E+01	4.13E+01
13	862.72	3.20E+01	25.14			3.20E+01	2.51E+01
14	910.44	3.33E+01	29.14			3.33E+01	2.91E+01
15	927.99	1.25E+01	15.96			1.25E+01	1.60E+01
16	968.70	3.47E+01	20.59			3.47E+01	2.06E+01
17	982.54	1.60E+01	18.06			1.60E+01	1.81E+01
18	1122.85	3.78E+01	28.90			3.78E+01	2.89E+01
19	1238.59	4.21E+01	36.43			4.21E+01	3.64E+01
20	1286.87	2.53E+01	24.37			2.53E+01	2.44E+01
21	1360.48	2.60E+01	26.00			2.60E+01	2.60E+01
22	1378.94	1.40E+01	12.33			1.40E+01	1.23E+01
23	1461.26	2.79E+02	37.35			2.79E+02	3.74E+01
24	1586.28	1.08E+01	9.59			1.08E+01	9.59E+00
25	1705.12	6.50E+00	6.40			6.50E+00	6.40E+00
26	1765.57	2.30E+01	9.59			2.30E+01	9.59E+00
27	2325.22	4.71E+00	6.63			4.71E+00	6.63E+00
28	2615.23	1.80E+01	8.49	1.81E+00	1.16E+00	1.62E+01	8.56E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.969	1460.81	*	10.67	1.68E+01	2.96E+00
TL-208	0.834	583.14	*	30.22	7.68E-01	3.53E-01
		860.37		4.48		

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Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
TL-208	0.834	2614.66	*	35.85	4.56E-01	2.46E-01
PB-212	0.818	238.63	*	44.60	7.48E-01	2.11E-01
		300.09		3.41		
BI-214	0.450	609.31	*	46.30	5.77E-01	2.17E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.959	295.21	*	19.19	7.69E-01	3.83E-01
		351.92	*	37.19	5.29E-01	2.20E-01
AC-228	0.486	338.32		11.40		
		911.07	*	27.70	4.99E-01	4.38E-01
		969.11	*	16.60	9.21E-01	5.51E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 8:29:03AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	45.38	2.41361E-02	33.51		
2	76.43	8.80334E-02	15.89		
4	270.55	1.09766E-02	48.76		
7	510.82	1.77905E-02	28.70		
8	533.69	6.58951E-03	44.04	Sum	
11	684.74	7.07195E-03	49.58	Tol.	SB-127
12	721.77	1.00531E-02	57.10		
13	862.72	8.88889E-03	39.28		
15	927.99	3.47222E-03	63.84		
17	982.54	4.43673E-03	56.54		
18	1122.85	1.04993E-02	38.23		
19	1238.59	1.16967E-02	43.26	Tol.	CO-56
20	1286.87	7.03056E-03	48.14		
21	1360.48	7.23380E-03	49.92		
22	1378.94	3.88889E-03	44.03		
24	1586.28	3.00595E-03	44.32		
25	1705.12	1.80556E-03	49.25		

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
26	1765.57	6.38889E-03	20.85		
27	2325.22	1.30952E-03	70.35		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.96	1460.81	*	10.67	1.68E+01	2.96E+00
TL-208	0.83	583.14	*	30.22	7.68E-01	3.53E-01
		860.37		4.48		
		2614.66	*	35.85	4.56E-01	2.46E-01
PB-212	0.81	238.63	*	44.60	7.48E-01	2.11E-01
		300.09		3.41		
BI-214	0.45	609.31	*	46.30	5.77E-01	2.17E-01
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
PB-214	0.95	295.21	*	19.19	7.69E-01	3.83E-01
		351.92	*	37.19	5.29E-01	2.20E-01
AC-228	0.48	338.32		11.40		
		911.07	*	27.70	4.99E-01	4.38E-01
		969.11	*	16.60	9.21E-01	5.51E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.969	1.68E+01	2.96E+00	
TL-208	0.834	5.58E-01	2.02E-01	
PB-212	0.818	7.48E-01	2.11E-01	
BI-214	0.450	5.77E-01	2.17E-01	
PB-214	0.959	5.89E-01	1.91E-01	
AC-228	0.486	6.62E-01	3.43E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 8:29:03AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
1	45.38	2.41361E-02	33.51		
2	76.43	8.80334E-02	15.89		
4	270.55	1.09766E-02	48.76		
7	510.82	1.77905E-02	28.70		
8	533.69	6.58951E-03	44.04	Sum	
11	684.74	7.07195E-03	49.58	Tol.	SB-127
12	721.77	1.00531E-02	57.10		
13	862.72	8.88889E-03	39.28		
15	927.99	3.47222E-03	63.84		
17	982.54	4.43673E-03	56.54		
18	1122.85	1.04993E-02	38.23		
19	1238.59	1.16967E-02	43.26	Tol.	CO-56
20	1286.87	7.03056E-03	48.14		
21	1360.48	7.23380E-03	49.92		
22	1378.94	3.88889E-03	44.03		
24	1586.28	3.00595E-03	44.32		
25	1705.12	1.80556E-03	49.25		
26	1765.57	6.38889E-03	20.85		
27	2325.22	1.30952E-03	70.35		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

00621

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-6.46E-01	1.18E+00	1.18E+00
+	NA-22	1274.54		99.94	-8.38E-03	1.48E-01	1.48E-01
+	NA-24	1368.53		99.99	-7.05E+09	1.31E+11	1.37E+11
		2754.09		99.86	-8.10E+09		1.31E+11
+	AL-26	1808.65		99.76	-1.35E-02	9.27E-02	9.27E-02
+	K-40	1460.81	*	10.67	1.68E+01	1.82E+00	1.82E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.28E-03	6.25E-02	6.25E-02
		78.34		96.00	-2.33E-03		7.39E-02
+	SC-46	889.25		99.98	1.03E-01	1.62E-01	1.62E-01
		1120.51		99.99	5.29E-02		2.23E-01
+	V-48	983.52		99.98	2.13E-02	3.99E-01	4.06E-01
		1312.10		97.50	5.33E-02		3.99E-01
+	CR-51	320.08		9.83	1.28E+00	1.69E+00	1.69E+00
+	MN-54	834.83		99.97	9.48E-03	1.20E-01	1.20E-01
+	CO-56	846.75		99.96	1.07E-02	1.62E-01	1.62E-01
		1037.75		14.03	-5.43E-01		1.10E+00
		1238.25		67.00	1.88E-01		3.97E-01
		1771.40		15.51	-6.56E-01		1.06E+00
		2598.48		16.90	2.23E-01		7.99E-01
+	CO-57	122.06		85.51	-5.69E-03	7.80E-02	7.80E-02
		136.48		10.60	7.79E-02		6.70E-01
+	CO-58	810.76		99.40	-5.67E-02	1.38E-01	1.38E-01
+	FE-59	1099.22		56.50	1.88E-01	4.21E-01	4.21E-01
		1291.56		43.20	-1.42E-01		5.02E-01
+	CO-60	1173.22		100.00	-8.56E-02	1.34E-01	1.48E-01
		1332.49		100.00	-7.86E-03		1.34E-01
+	ZN-65	1115.52		50.75	1.77E-02	3.46E-01	3.46E-01
+	GA-67	93.31		35.70	2.22E+01	3.74E+01	3.74E+01
		208.95		2.24	3.29E+02		7.19E+02
		300.22		16.00	3.75E+00		1.16E+02
+	SE-75	121.11		16.70	4.10E-02	1.31E-01	4.31E-01
		136.00		59.20	4.94E-02		1.31E-01
		264.65		59.80	-1.97E-02		1.51E-01
		279.53		25.20	-9.30E-03		3.92E-01
		400.65		11.40	2.95E-01		9.60E-01
+	RB-82	776.52		13.00	-3.85E-01	1.95E+00	1.95E+00
+	RB-83	520.41		46.00	-1.28E-01	2.56E-01	2.56E-01
		529.64		30.30	4.42E-02		4.14E-01
		552.65		16.40	5.05E-02		6.68E-01
+	KR-85	513.99		0.43	-2.51E-01	3.04E+01	3.04E+01
+	SR-85	513.99		99.27	-1.43E-03	1.73E-01	1.73E-01
+	Y-88	898.02		93.40	-8.42E-02	1.30E-01	1.43E-01
		1836.01		99.38	3.95E-02		1.30E-01
+	NB-93M	16.57		9.43	6.05E-01	3.21E-01	3.21E-01
+	NB-94	702.63		100.00	3.56E-02	1.15E-01	1.20E-01
		871.10		100.00	-1.57E-02		1.15E-01

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Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79	99.81	1.15E-02	1.87E-01	1.87E-01
+	NB-95M	235.69	25.00	-6.85E+00	5.33E+01	5.33E+01
+	ZR-95	724.18	43.70	6.00E-02	2.75E-01	3.64E-01
		756.72	55.30	-2.76E-02		2.75E-01
+	MO-99	181.06	6.20	-1.14E+03	5.04E+02	6.29E+02
		739.58	12.80	1.03E+00		5.04E+02
		778.00	4.50	4.61E+02		1.65E+03
+	RU-103	497.08	89.00	3.98E-02	1.70E-01	1.70E-01
+	RU-106	621.84	9.80	-5.41E-01	1.06E+00	1.06E+00
+	AG-108M	433.93	89.90	-8.10E-03	9.64E-02	9.64E-02
		614.37	90.40	2.50E-02		1.45E-01
		722.95	90.50	-2.88E-02		1.28E-01
+	CD-109	88.03	3.72	1.16E+00	1.86E+00	1.86E+00
+	AG-110M	657.75	93.14	2.36E-02	1.16E-01	1.16E-01
		677.61	10.53	-5.30E-02		1.06E+00
		706.67	16.46	1.77E-01		6.77E-01
		763.93	21.98	-9.81E-02		5.41E-01
		884.67	71.63	-1.81E-02		1.85E-01
		1384.27	23.94	-1.01E-01		5.17E-01
+	CD-113M	263.70	0.02	-8.61E+01	3.35E+02	3.35E+02
+	SN-113	255.12	1.93	2.37E-01	1.69E-01	4.64E+00
		391.69	64.90	6.00E-02		1.69E-01
+	TE123M	159.00	84.10	-2.34E-03	9.76E-02	9.76E-02
+	SB-124	602.71	97.87	-1.62E-02	1.29E-01	1.29E-01
		645.85	7.26	8.31E-01		1.99E+00
		722.78	11.10	6.21E-02		1.47E+00
		1691.02	49.00	1.32E-02		1.84E-01
+	I-125	35.49	6.49	2.42E-02	7.31E-01	7.31E-01
+	SB-125	176.33	6.89	4.22E-02	3.04E-01	1.06E+00
		427.89	29.33	1.55E-02		3.04E-01
		463.38	10.35	6.97E-01		1.06E+00
		600.56	17.80	-2.79E-02		5.45E-01
		635.90	11.32	-3.82E-01		8.79E-01
+	SB-126	414.70	83.30	-3.40E-01	4.09E-01	4.09E-01
		666.33	99.60	6.70E-02		4.26E-01
		695.00	99.60	2.48E-01		5.02E-01
		720.50	53.80	5.12E-01		9.17E-01
+	SN-126	87.57	37.00	1.12E-01	1.80E-01	1.80E-01
+	SB-127	473.00	25.00	5.63E+00	2.87E+01	3.34E+01
		685.20	35.70	1.54E+00		2.87E+01
		783.80	14.70	2.08E+01		8.24E+01
+	I-129	29.78	57.00	-6.88E-03	6.10E-02	6.10E-02
		33.60	13.20	-1.35E-01		2.60E-01
		39.58	7.52	5.58E-02		4.93E-01
+	I-131	284.30	6.05	-5.95E+00	9.07E-01	1.20E+01
		364.48	81.20	-1.73E-01		9.07E-01
		636.97	7.26	-8.59E-01		1.19E+01
		722.89	1.80	2.49E+00		5.88E+01

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Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	-4.27E+01	1.94E+01	6.79E+01
			228.16	88.00	4.80E+00		1.94E+01
+		BA-133	81.00	33.00	-3.63E-02	2.01E-01	2.05E-01
			302.84	17.80	8.59E-02		4.95E-01
			356.01	60.00	1.86E-02		2.01E-01
+		I-133	529.87	86.30	6.37E+06	5.98E+07	5.98E+07
+		XE-133	81.00	38.00	-8.60E-01	4.86E+00	4.86E+00
+		CS-134	563.23	8.38	-7.55E-01	1.19E-01	1.12E+00
			569.32	15.43	1.18E-01		7.22E-01
			604.70	97.60	-2.38E-02		1.19E-01
			795.84	85.40	7.34E-02		1.54E-01
			801.93	8.73	-6.66E-01		1.19E+00
+		CS-135	268.24	16.00	4.11E-03	5.53E-01	5.53E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	-7.77E-02	4.18E-01	3.38E+00
			163.89	4.61	1.43E+00		5.78E+00
			176.55	13.56	7.89E-02		1.98E+00
			273.65	12.66	-1.79E-02		2.65E+00
			340.57	48.50	5.45E-01		7.43E-01
			818.50	99.70	-2.80E-02		4.18E-01
			1048.07	79.60	-2.30E-01		6.38E-01
			1235.34	19.70	1.11E+00		4.04E+00
+		CS-137	661.65	85.12	-5.14E-02	1.13E-01	1.13E-01
+		LA-138	788.74	34.00	-1.22E-01	2.05E-01	3.77E-01
			1435.80	66.00	2.52E-02		2.05E-01
+		CE-139	165.85	80.35	-2.81E-03	9.92E-02	9.92E-02
+		BA-140	162.64	6.70	1.33E+00	1.53E+00	4.14E+00
			304.84	4.50	1.52E+00		7.36E+00
			423.70	3.20	4.22E+00		1.13E+01
			437.55	2.00	2.72E+00		1.77E+01
			537.32	25.00	-8.95E-02		1.53E+00
+		LA-140	328.77	20.50	2.26E-02	4.71E-01	1.57E+00
			487.03	45.50	1.45E-01		8.33E-01
			815.85	23.50	2.96E-01		1.91E+00
			1596.49	95.49	1.05E-01		4.71E-01
+		CE-141	145.44	48.40	1.10E-01	2.38E-01	2.38E-01
+		CE-143	57.36	11.80	-6.62E+04	7.67E+04	1.27E+05
			293.26	42.00	7.74E+04		7.67E+04
			664.55	5.20	1.69E+05		6.18E+05
+		CE-144	133.54	10.80	1.49E-01	6.56E-01	6.56E-01
+		PM-144	476.78	42.00	5.89E-02	1.04E-01	2.37E-01
			618.01	98.60	-5.24E-02		1.04E-01
			696.49	99.49	1.69E-02		1.26E-01
+		PM-145	36.85	21.70	-1.91E-02	9.00E-02	1.64E-01
			37.36	39.70	-4.48E-04		9.00E-02
			42.30	15.10	-8.85E-03		2.70E-01
			72.40	2.31	2.38E-01		2.99E+00

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Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90	39.94	1.43E-01	2.48E-01	2.48E-01
		735.90	14.01	-9.69E-02		7.52E-01
		747.13	13.10	1.35E-01		9.71E-01
+	ND-147	91.11	28.90	1.40E+00	1.15E+00	1.15E+00
		531.02	13.10	2.35E-01		3.74E+00
+	PM-149	285.90	3.10	-1.38E+03	7.01E+03	7.01E+03
+	EU-152	121.78	20.50	-2.23E-02	3.06E-01	3.06E-01
		244.69	5.40	-8.56E-02		1.72E+00
		344.27	19.13	-2.14E-01		4.30E-01
		778.89	9.20	4.12E-01		1.47E+00
		964.01	10.40	-4.46E-01		1.49E+00
		1085.78	7.22	-9.09E-02		2.19E+00
		1112.02	9.60	5.55E-01		1.65E+00
		1407.95	14.94	-2.79E-02		6.63E-01
+	GD-153	97.43	31.30	-2.22E-01	2.03E-01	2.03E-01
		103.18	22.20	4.63E-04		2.87E-01
+	EU-154	123.07	40.50	2.95E-02	1.57E-01	1.57E-01
		723.30	19.70	-1.33E-01		5.90E-01
		873.19	11.50	1.16E-01		1.07E+00
		996.32	10.30	-4.17E-01		1.26E+00
		1004.76	17.90	5.42E-02		8.41E-01
		1274.45	35.50	-2.33E-02		4.11E-01
+	EU-155	86.50	30.90	6.89E-02	2.14E-01	2.14E-01
		105.30	20.70	1.87E-01		2.95E-01
+	EU-156	811.77	10.40	4.38E-01	3.47E+00	3.47E+00
		1153.47	7.20	2.80E+00		7.82E+00
		1230.71	8.90	2.90E-01		7.11E+00
+	HO-166M	184.41	72.60	8.81E-02	1.12E-01	1.12E-01
		280.45	29.60	1.01E-02		2.92E-01
		410.94	11.10	3.18E-01		8.27E-01
		711.69	54.10	-1.93E-02		1.67E-01
+	TM-171	66.72	0.14	1.67E+01	4.36E+01	4.36E+01
+	HF-172	81.75	4.52	-3.62E-01	5.73E-01	1.46E+00
		125.81	11.30	-2.27E-01		5.73E-01
+	LU-172	181.53	20.60	-9.71E-01	3.15E+00	4.93E+00
		810.06	16.63	-3.54E+00		8.62E+00
		912.12	15.25	7.19E+00		1.35E+01
		1093.66	62.50	-8.62E-01		3.15E+00
+	LU-173	100.72	5.24	-2.97E-01	4.24E-01	1.17E+00
		272.11	21.20	-9.68E-02		4.24E-01
+	HF-175	343.40	84.00	7.92E-03	1.35E-01	1.35E-01
+	LU-176	88.34	13.30	3.71E-01	8.58E-02	5.06E-01
		201.83	86.00	3.84E-02		8.98E-02
		306.78	94.00	-2.30E-02		8.58E-02
+	TA-182	67.75	41.20	3.40E-03	1.66E-01	1.66E-01
		1121.30	34.90	3.74E-01		6.43E-01
		1189.05	16.23	-3.46E-01		1.11E+00
		1221.41	26.98	-3.78E-01		7.59E-01
		1231.02	11.44	8.37E-02		2.05E+00

Analysis Report for 1507182-10

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	9.18E-03	2.60E-01	3.44E-01
		468.07		48.10	-1.91E-02		2.60E-01
+	HG-203	279.19		77.30	-3.80E-03	1.60E-01	1.60E-01
+	BI-207	569.67		97.72	1.82E-02	1.12E-01	1.12E-01
		1063.62		74.90	3.22E-02		1.94E-01
+	TL-208	583.14	*	30.22	7.68E-01	2.12E-01	5.17E-01
		860.37		4.48	6.13E-01		2.94E+00
		2614.66	*	35.85	4.56E-01		2.12E-01
+	BI-210M	262.00		45.00	-3.26E-02	1.69E-01	1.69E-01
		300.00		23.00	-5.41E-03		4.22E-01
+	PB-210	46.50		4.25	-1.37E-01	1.01E+00	1.01E+00
+	PB-211	404.84		2.90	4.34E-01	3.33E+00	3.33E+00
		831.96		2.90	-4.67E-01		3.91E+00
+	BI-212	727.17		11.80	1.11E-01	9.66E-01	9.66E-01
		1620.62		2.75	-1.13E+00		3.35E+00
+	PB-212	238.63	*	44.60	7.48E-01	2.95E-01	2.95E-01
		300.09		3.41	-3.65E-02		2.84E+00
+	BI-214	609.31	*	46.30	5.77E-01	2.98E-01	2.98E-01
		1120.29		15.10	2.85E-01		1.20E+00
		1764.49		15.80	8.40E-01		1.20E+00
		2204.22		4.98	8.75E-01		2.71E+00
+	PB-214	295.21	*	19.19	7.69E-01	3.21E-01	5.83E-01
		351.92	*	37.19	5.29E-01		3.21E-01
+	RN-219	401.80		6.50	4.38E-01	1.47E+00	1.47E+00
+	RA-223	323.87		3.88	-9.44E-02	2.16E+00	2.16E+00
+	RA-224	240.98		3.95	9.06E+00	3.09E+00	3.09E+00
+	RA-225	40.00		31.00	4.39E-02	3.88E-01	3.88E-01
+	RA-226	186.21		3.28	2.29E+00	2.49E+00	2.49E+00
+	TH-227	50.10		8.40	-3.24E-01	5.15E-01	5.15E-01
		236.00		11.50	-1.21E-01		9.46E-01
		256.20		6.30	-2.86E-01		1.20E+00
+	AC-228	338.32		11.40	8.20E-01	6.99E-01	8.68E-01
		911.07	*	27.70	4.99E-01		6.99E-01
		969.11	*	16.60	9.21E-01		8.08E-01
+	TH-230	48.44		16.90	-1.53E-01	2.55E-01	2.55E-01
		62.85		4.60	9.27E-02		1.19E+00
		67.67		0.37	3.25E-01		1.59E+01
+	PA-231	283.67		1.60	-1.57E+00	3.81E+00	5.33E+00
		302.67		2.30	6.62E-01		3.81E+00
+	TH-231	25.64		14.70	5.13E-02	2.43E-01	2.43E-01
		84.21		6.40	8.27E-02		9.73E-01
+	PA-233	311.98		38.60	-2.98E-01	3.79E-01	3.79E-01
+	PA-234	131.20		20.40	-1.52E-02	3.22E-01	3.22E-01
		733.99		8.80	1.27E-02		1.18E+00
		946.00		12.00	-2.88E-01		8.97E-01
+	PA-234M	1001.03		0.92	6.44E+00	1.66E+01	1.66E+01
+	TH-234	63.29		3.80	2.75E-01	1.47E+00	1.47E+00

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	2.12E-01	6.41E-01	6.41E-01
		163.35	4.70	3.73E-01		1.51E+00
		205.31	4.70	-4.79E-01		1.59E+00
+	NP-237	86.50	12.60	1.67E-01	5.19E-01	5.19E-01
+	NP-239	106.10	22.70	2.71E+02	4.26E+02	4.26E+02
		228.18	10.70	-1.85E+01		1.19E+03
		277.60	14.10	2.51E+02		9.62E+02
+	AM-241	59.54	35.90	3.48E-02	1.46E-01	1.46E-01
+	AM-243	74.67	66.00	2.40E-01	1.10E-01	1.10E-01
+	CM-243	209.75	3.29	5.19E-01	6.10E-01	2.33E+00
		228.14	10.60	1.94E-01		7.82E-01
		277.60	14.00	1.59E-01		6.10E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.18E+00	1.18E+00	-6.46E-01	5.52E-01
	NA-22	1274.54		99.94	1.48E-01	1.48E-01	-8.38E-03	6.61E-02
	NA-24	1368.53		99.99	1.37E+11	1.31E+11	-7.05E+09	5.91E+10
		2754.09		99.86	1.31E+11		-8.10E+09	4.90E+10
	AL-26	1808.65		99.76	9.27E-02	9.27E-02	-1.35E-02	3.59E-02
+	K-40	1460.81	*	10.67	1.82E+00	1.82E+00	1.68E+01	8.30E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	6.25E-02	6.25E-02	1.28E-03	3.06E-02
		78.34		96.00	7.39E-02		-2.33E-03	3.62E-02
	SC-46	889.25		99.98	1.62E-01	1.62E-01	1.03E-01	7.43E-02

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Analysis Report for 1507182-10

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SC-46	1120.51	99.99	2.23E-01	1.62E-01	5.29E-02	1.03E-01
V-48	983.52	99.98	4.06E-01	3.99E-01	2.13E-02	1.85E-01
	1312.10	97.50	3.99E-01		5.33E-02	1.75E-01
CR-51	320.08	9.83	1.69E+00	1.69E+00	1.28E+00	8.05E-01
MN-54	834.83	99.97	1.20E-01	1.20E-01	9.48E-03	5.46E-02
CO-56	846.75	99.96	1.62E-01	1.62E-01	1.07E-02	7.43E-02
	1037.75	14.03	1.10E+00		-5.43E-01	4.95E-01
	1238.25	67.00	3.97E-01		1.88E-01	1.84E-01
	1771.40	15.51	1.06E+00		-6.56E-01	4.48E-01
	2598.48	16.90	7.99E-01		2.23E-01	2.99E-01
CO-57	122.06	85.51	7.80E-02	7.80E-02	-5.69E-03	3.78E-02
	136.48	10.60	6.70E-01		7.79E-02	3.25E-01
CO-58	810.76	99.40	1.38E-01	1.38E-01	-5.67E-02	6.26E-02
FE-59	1099.22	56.50	4.21E-01	4.21E-01	1.88E-01	1.93E-01
	1291.56	43.20	5.02E-01		-1.42E-01	2.24E-01
CO-60	1173.22	100.00	1.48E-01	1.34E-01	-8.56E-02	6.67E-02
	1332.49	100.00	1.34E-01		-7.86E-03	5.90E-02
ZN-65	1115.52	50.75	3.46E-01	3.46E-01	1.77E-02	1.59E-01
GA-67	93.31	35.70	3.74E+01	3.74E+01	2.22E+01	1.82E+01
	208.95	2.24	7.19E+02		3.29E+02	3.47E+02
	300.22	16.00	1.16E+02		3.75E+00	5.56E+01
SE-75	121.11	16.70	4.31E-01	1.31E-01	4.10E-02	2.09E-01
	136.00	59.20	1.31E-01		4.94E-02	6.38E-02
	264.65	59.80	1.51E-01		-1.97E-02	7.21E-02
	279.53	25.20	3.92E-01		-9.30E-03	1.88E-01
	400.65	11.40	9.60E-01		2.95E-01	4.55E-01
RB-82	776.52	13.00	1.95E+00	1.95E+00	-3.85E-01	9.04E-01
RB-83	520.41	46.00	2.56E-01	2.56E-01	-1.28E-01	1.19E-01
	529.64	30.30	4.14E-01		4.42E-02	1.94E-01
	552.65	16.40	6.68E-01		5.05E-02	3.08E-01
KR-85	513.99	0.43	3.04E+01	3.04E+01	-2.51E-01	1.44E+01
SR-85	513.99	99.27	1.73E-01	1.73E-01	-1.43E-03	8.22E-02
Y-88	898.02	93.40	1.43E-01	1.30E-01	-8.42E-02	6.46E-02
	1836.01	99.38	1.30E-01		3.95E-02	5.26E-02
NB-93M	16.57	9.43	3.21E-01	3.21E-01	6.05E-01	1.56E-01
NB-94	702.63	100.00	1.20E-01	1.15E-01	3.56E-02	5.55E-02
	871.10	100.00	1.15E-01		-1.57E-02	5.23E-02
NB-95	765.79	99.81	1.87E-01	1.87E-01	1.15E-02	8.57E-02
NB-95M	235.69	25.00	5.33E+01	5.33E+01	-6.85E+00	2.59E+01
ZR-95	724.18	43.70	3.64E-01	2.75E-01	6.00E-02	1.68E-01
	756.72	55.30	2.75E-01		-2.76E-02	1.27E-01
MO-99	181.06	6.20	6.29E+02	5.04E+02	-1.14E+03	3.03E+02
	739.58	12.80	5.04E+02		1.03E+00	2.32E+02
	778.00	4.50	1.65E+03		4.61E+02	7.65E+02
RU-103	497.08	89.00	1.70E-01	1.70E-01	3.98E-02	7.94E-02
RU-106	621.84	9.80	1.06E+00	1.06E+00	-5.41E-01	4.86E-01
AG-108M	433.93	89.90	9.64E-02	9.64E-02	-8.10E-03	4.52E-02
	614.37	90.40	1.45E-01		2.50E-02	6.80E-02
	722.95	90.50	1.28E-01		-2.88E-02	5.89E-02
CD-109	88.03	3.72	1.86E+00	1.86E+00	1.16E+00	9.10E-01
AG-110M	657.75	93.14	1.16E-01	1.16E-01	2.36E-02	5.35E-02
	677.61	10.53	1.06E+00		-5.30E-02	4.88E-01
	706.67	16.46	6.77E-01		1.77E-01	3.10E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
AG-110M	763.93	21.98	5.41E-01	1.16E-01	-9.81E-02	2.47E-01
	884.67	71.63	1.85E-01		-1.81E-02	8.42E-02
	1384.27	23.94	5.17E-01		-1.01E-01	2.21E-01
CD-113M	263.70	0.02	3.35E+02	3.35E+02	-8.61E+01	1.60E+02
SN-113	255.12	1.93	4.64E+00	1.69E-01	2.37E-01	2.22E+00
	391.69	64.90	1.69E-01		6.00E-02	8.00E-02
TE123M	159.00	84.10	9.76E-02	9.76E-02	-2.34E-03	4.72E-02
SB-124	602.71	97.87	1.29E-01	1.29E-01	-1.62E-02	5.95E-02
	645.85	7.26	1.99E+00		8.31E-01	9.21E-01
	722.78	11.10	1.47E+00		6.21E-02	6.80E-01
	1691.02	49.00	1.84E-01		1.32E-02	6.53E-02
I-125	35.49	6.49	7.31E-01	7.31E-01	2.42E-02	3.55E-01
SB-125	176.33	6.89	1.06E+00	3.04E-01	4.22E-02	5.11E-01
	427.89	29.33	3.04E-01		1.55E-02	1.43E-01
	463.38	10.35	1.06E+00		6.97E-01	5.00E-01
	600.56	17.80	5.45E-01		-2.79E-02	2.51E-01
	635.90	11.32	8.79E-01		-3.82E-01	4.04E-01
SB-126	414.70	83.30	4.09E-01	4.09E-01	-3.40E-01	1.92E-01
	666.33	99.60	4.26E-01		6.70E-02	1.96E-01
	695.00	99.60	5.02E-01		2.48E-01	2.34E-01
	720.50	53.80	9.17E-01		5.12E-01	4.25E-01
SN-126	87.57	37.00	1.80E-01	1.80E-01	1.12E-01	8.79E-02
SB-127	473.00	25.00	3.34E+01	2.87E+01	5.63E+00	1.56E+01
	685.20	35.70	2.87E+01		1.54E+00	1.33E+01
	783.80	14.70	8.24E+01		2.08E+01	3.82E+01
I-129	29.78	57.00	6.10E-02	6.10E-02	-6.88E-03	2.96E-02
	33.60	13.20	2.60E-01		-1.35E-01	1.26E-01
	39.58	7.52	4.93E-01		5.58E-02	2.39E-01
I-131	284.30	6.05	1.20E+01	9.07E-01	-5.95E+00	5.72E+00
	364.48	81.20	9.07E-01		-1.73E-01	4.29E-01
	636.97	7.26	1.19E+01		-8.59E-01	5.50E+00
	722.89	1.80	5.88E+01		2.49E+00	2.72E+01
TE-132	49.72	13.10	6.79E+01	1.94E+01	-4.27E+01	3.31E+01
	228.16	88.00	1.94E+01		4.80E+00	9.34E+00
BA-133	81.00	33.00	2.05E-01	2.01E-01	-3.63E-02	1.00E-01
	302.84	17.80	4.95E-01		8.59E-02	2.37E-01
	356.01	60.00	2.01E-01		1.86E-02	9.68E-02
I-133	529.87	86.30	5.98E+07	5.98E+07	6.37E+06	2.80E+07
XE-133	81.00	38.00	4.86E+00	4.86E+00	-8.60E-01	2.38E+00
CS-134	563.23	8.38	1.12E+00	1.19E-01	-7.55E-01	5.19E-01
	569.32	15.43	7.22E-01		1.18E-01	3.37E-01
	604.70	97.60	1.19E-01		-2.38E-02	5.54E-02
	795.84	85.40	1.54E-01		7.34E-02	7.09E-02
	801.93	8.73	1.19E+00		-6.66E-01	5.38E-01
CS-135	268.24	16.00	5.53E-01	5.53E-01	4.11E-03	2.66E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	3.38E+00	4.18E-01	-7.77E-02	1.63E+00
	163.89	4.61	5.78E+00		1.43E+00	2.80E+00
	176.55	13.56	1.98E+00		7.89E-02	9.56E-01
	273.65	12.66	2.65E+00		-1.79E-02	1.27E+00
	340.57	48.50	7.43E-01		5.45E-01	3.55E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	4.18E-01	4.18E-01	-2.80E-02	1.90E-01
	1048.07	79.60	6.38E-01		-2.30E-01	2.89E-01
	1235.34	19.70	4.04E+00		1.11E+00	1.88E+00
CS-137	661.65	85.12	1.13E-01	1.13E-01	-5.14E-02	5.18E-02
LA-138	788.74	34.00	3.77E-01	2.05E-01	-1.22E-01	1.74E-01
	1435.80	66.00	2.05E-01		2.52E-02	8.93E-02
CE-139	165.85	80.35	9.92E-02	9.92E-02	-2.81E-03	4.80E-02
BA-140	162.64	6.70	4.14E+00	1.53E+00	1.33E+00	2.00E+00
	304.84	4.50	7.36E+00		1.52E+00	3.51E+00
	423.70	3.20	1.13E+01		4.22E+00	5.30E+00
	437.55	2.00	1.77E+01		2.72E+00	8.32E+00
	537.32	25.00	1.53E+00		-8.95E-02	7.14E-01
LA-140	328.77	20.50	1.57E+00	4.71E-01	2.26E-02	7.46E-01
	487.03	45.50	8.33E-01		1.45E-01	3.91E-01
	815.85	23.50	1.91E+00		2.96E-01	8.72E-01
	1596.49	95.49	4.71E-01		1.05E-01	1.97E-01
CE-141	145.44	48.40	2.38E-01	2.38E-01	1.10E-01	1.15E-01
CE-143	57.36	11.80	1.27E+05	7.67E+04	-6.62E+04	6.21E+04
	293.26	42.00	7.67E+04		7.74E+04	3.70E+04
	664.55	5.20	6.18E+05		1.69E+05	2.85E+05
CE-144	133.54	10.80	6.56E-01	6.56E-01	1.49E-01	3.19E-01
PM-144	476.78	42.00	2.37E-01	1.04E-01	5.89E-02	1.11E-01
	618.01	98.60	1.04E-01		-5.24E-02	4.81E-02
	696.49	99.49	1.26E-01		1.69E-02	5.85E-02
PM-145	36.85	21.70	1.64E-01	9.00E-02	-1.91E-02	7.95E-02
	37.36	39.70	9.00E-02		-4.48E-04	4.37E-02
	42.30	15.10	2.70E-01		-8.85E-03	1.31E-01
	72.40	2.31	2.99E+00		2.38E-01	1.46E+00
PM-146	453.90	39.94	2.48E-01	2.48E-01	1.43E-01	1.17E-01
	735.90	14.01	7.52E-01		-9.69E-02	3.43E-01
	747.13	13.10	9.71E-01		1.35E-01	4.50E-01
ND-147	91.11	28.90	1.15E+00	1.15E+00	1.40E+00	5.62E-01
	531.02	13.10	3.74E+00		2.35E-01	1.75E+00
PM-149	285.90	3.10	7.01E+03	7.01E+03	-1.38E+03	3.35E+03
EU-152	121.78	20.50	3.06E-01	3.06E-01	-2.23E-02	1.48E-01
	244.69	5.40	1.72E+00		-8.56E-02	8.29E-01
	344.27	19.13	4.30E-01		-2.14E-01	2.04E-01
	778.89	9.20	1.47E+00		4.12E-01	6.82E-01
	964.01	10.40	1.49E+00		-4.46E-01	6.88E-01
	1085.78	7.22	2.19E+00		-9.09E-02	1.00E+00
	1112.02	9.60	1.65E+00		5.55E-01	7.52E-01
	1407.95	14.94	6.63E-01		-2.79E-02	2.75E-01
GD-153	97.43	31.30	2.03E-01	2.03E-01	-2.22E-01	9.88E-02
	103.18	22.20	2.87E-01		4.63E-04	1.40E-01
EU-154	123.07	40.50	1.57E-01	1.57E-01	2.95E-02	7.63E-02
	723.30	19.70	5.90E-01		-1.33E-01	2.72E-01
	873.19	11.50	1.07E+00		1.16E-01	4.86E-01
	996.32	10.30	1.26E+00		-4.17E-01	5.72E-01
	1004.76	17.90	8.41E-01		5.42E-02	3.86E-01
	1274.45	35.50	4.11E-01		-2.33E-02	1.84E-01
EU-155	86.50	30.90	2.14E-01	2.14E-01	6.89E-02	1.04E-01
	105.30	20.70	2.95E-01		1.87E-01	1.44E-01
EU-156	811.77	10.40	3.47E+00	3.47E+00	4.38E-01	1.58E+00

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	7.82E+00	3.47E+00	2.80E+00	3.61E+00
		1230.71		8.90	7.11E+00		2.90E-01	3.29E+00
	HO-166M	184.41		72.60	1.12E-01	1.12E-01	8.81E-02	5.40E-02
		280.45		29.60	2.92E-01		1.01E-02	1.40E-01
		410.94		11.10	8.27E-01		3.18E-01	3.90E-01
		711.69		54.10	1.67E-01		-1.93E-02	7.54E-02
	TM-171	66.72		0.14	4.36E+01	4.36E+01	1.67E+01	2.13E+01
	HF-172	81.75		4.52	1.46E+00	5.73E-01	-3.62E-01	7.13E-01
		125.81		11.30	5.73E-01		-2.27E-01	2.78E-01
	LU-172	181.53		20.60	4.93E+00	3.15E+00	-9.71E-01	2.39E+00
		810.06		16.63	8.62E+00		-3.54E+00	3.91E+00
		912.12		15.25	1.35E+01		7.19E+00	6.27E+00
		1093.66		62.50	3.15E+00		-8.62E-01	1.43E+00
	LU-173	100.72		5.24	1.17E+00	4.24E-01	-2.97E-01	5.67E-01
		272.11		21.20	4.24E-01		-9.68E-02	2.03E-01
	HF-175	343.40		84.00	1.35E-01	1.35E-01	7.92E-03	6.43E-02
	LU-176	88.34		13.30	5.06E-01	8.58E-02	3.71E-01	2.47E-01
		201.83		86.00	8.98E-02		3.84E-02	4.33E-02
		306.78		94.00	8.58E-02		-2.30E-02	4.08E-02
	TA-182	67.75		41.20	1.66E-01	1.66E-01	3.40E-03	8.14E-02
		1121.30		34.90	6.43E-01		3.74E-01	2.99E-01
		1189.05		16.23	1.11E+00		-3.46E-01	5.04E-01
		1221.41		26.98	7.59E-01		-3.78E-01	3.47E-01
		1231.02		11.44	2.05E+00		8.37E-02	9.50E-01
	IR-192	308.46		29.68	3.44E-01	2.60E-01	9.18E-03	1.64E-01
		468.07		48.10	2.60E-01		-1.91E-02	1.22E-01
	HG-203	279.19		77.30	1.60E-01	1.60E-01	-3.80E-03	7.68E-02
	BI-207	569.67		97.72	1.12E-01	1.12E-01	1.82E-02	5.22E-02
		1063.62		74.90	1.94E-01		3.22E-02	8.85E-02
+	TL-208	583.14	*	30.22	5.17E-01	2.12E-01	7.68E-01	2.46E-01
		860.37		4.48	2.94E+00		6.13E-01	1.35E+00
		2614.66	*	35.85	2.12E-01		4.56E-01	6.79E-02
	BI-210M	262.00		45.00	1.69E-01	1.69E-01	-3.26E-02	8.06E-02
		300.00		23.00	4.22E-01		-5.41E-03	2.02E-01
	PB-210	46.50		4.25	1.01E+00	1.01E+00	-1.37E-01	4.90E-01
	PB-211	404.84		2.90	3.33E+00	3.33E+00	4.34E-01	1.58E+00
		831.96		2.90	3.91E+00		-4.67E-01	1.78E+00
	BI-212	727.17		11.80	9.66E-01	9.66E-01	1.11E-01	4.45E-01
		1620.62		2.75	3.35E+00		-1.13E+00	1.33E+00
+	PB-212	238.63	*	44.60	2.95E-01	2.95E-01	7.48E-01	1.44E-01
		300.09		3.41	2.84E+00		-3.65E-02	1.37E+00
+	BI-214	609.31	*	46.30	2.98E-01	2.98E-01	5.77E-01	1.41E-01
		1120.29		15.10	1.20E+00		2.85E-01	5.56E-01
		1764.49		15.80	1.20E+00		8.40E-01	5.33E-01
		2204.22		4.98	2.71E+00		8.75E-01	1.11E+00
+	PB-214	295.21	*	19.19	5.83E-01	3.21E-01	7.69E-01	2.82E-01
		351.92	*	37.19	3.21E-01		5.29E-01	1.55E-01
	RN-219	401.80		6.50	1.47E+00	1.47E+00	4.38E-01	6.95E-01
	RA-223	323.87		3.88	2.16E+00	2.16E+00	-9.44E-02	1.03E+00
	RA-224	240.98		3.95	3.09E+00	3.09E+00	9.06E+00	1.51E+00
	RA-225	40.00		31.00	3.88E-01	3.88E-01	4.39E-02	1.88E-01
	RA-226	186.21		3.28	2.49E+00	2.49E+00	2.29E+00	1.21E+00
	TH-227	50.10		8.40	5.15E-01	5.15E-01	-3.24E-01	2.51E-01

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00		11.50	9.46E-01	5.15E-01	-1.21E-01	4.60E-01
		256.20		6.30	1.20E+00		-2.86E-01	5.72E-01
+	AC-228	338.32		11.40	8.68E-01	6.99E-01	8.20E-01	4.15E-01
		911.07	*	27.70	6.99E-01		4.99E-01	3.29E-01
		969.11	*	16.60	8.08E-01		9.21E-01	3.68E-01
	TH-230	48.44		16.90	2.55E-01	2.55E-01	-1.53E-01	1.24E-01
		62.85		4.60	1.19E+00		9.27E-02	5.84E-01
		67.67		0.37	1.59E+01		3.25E-01	7.78E+00
	PA-231	283.67		1.60	5.33E+00	3.81E+00	-1.57E+00	2.55E+00
		302.67		2.30	3.81E+00		6.62E-01	1.82E+00
	TH-231	25.64		14.70	2.43E-01	2.43E-01	5.13E-02	1.18E-01
		84.21		6.40	9.73E-01		8.27E-02	4.75E-01
	PA-233	311.98		38.60	3.79E-01	3.79E-01	-2.98E-01	1.80E-01
	PA-234	131.20		20.40	3.22E-01	3.22E-01	-1.52E-02	1.56E-01
		733.99		8.80	1.18E+00		1.27E-02	5.40E-01
		946.00		12.00	8.97E-01		-2.88E-01	4.00E-01
	PA-234M	1001.03		0.92	1.66E+01	1.66E+01	6.44E+00	7.62E+00
	TH-234	63.29		3.80	1.47E+00	1.47E+00	2.75E-01	7.20E-01
	U-235	143.76		10.50	6.41E-01	6.41E-01	2.12E-01	3.11E-01
		163.35		4.70	1.51E+00		3.73E-01	7.31E-01
		205.31		4.70	1.59E+00		-4.79E-01	7.67E-01
	NP-237	86.50		12.60	5.19E-01	5.19E-01	1.67E-01	2.54E-01
	NP-239	106.10		22.70	4.26E+02	4.26E+02	2.71E+02	2.07E+02
		228.18		10.70	1.19E+03		-1.85E+01	5.74E+02
		277.60		14.10	9.62E+02		2.51E+02	4.61E+02
	AM-241	59.54		35.90	1.46E-01	1.46E-01	3.48E-02	7.12E-02
	AM-243	74.67		66.00	1.10E-01	1.10E-01	2.40E-01	5.38E-02
	CM-243	209.75		3.29	2.33E+00	6.10E-01	5.19E-01	1.12E+00
		228.14		10.60	7.82E-01		1.94E-01	3.77E-01
		277.60		14.00	6.10E-01		1.59E-01	2.92E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1507182-10

FEEBRIS1D-16 059-061

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-16 059-061

Elapsed Live time: 3600
Elapsed Real Time: 3608

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	16	61
17:	76	45	64	51	53	44	44	55
25:	52	54	41	52	36	34	51	34
33:	36	42	39	46	45	43	43	42
41:	35	51	46	61	56	77	38	43
49:	53	45	45	49	53	72	58	50
57:	60	58	69	57	60	91	85	70
65:	56	73	77	71	85	80	67	79
73:	89	110	134	138	131	87	61	46
81:	62	65	68	65	65	80	78	68
89:	78	64	79	76	66	62	54	40
97:	51	39	40	50	43	60	53	49
105:	44	39	39	49	46	32	38	43
113:	36	41	48	39	33	43	47	42
121:	43	36	42	44	39	38	39	46
129:	33	46	45	41	41	40	43	38
137:	43	40	36	35	37	28	44	45
145:	45	31	37	27	39	22	32	33
153:	38	39	36	34	33	36	39	34
161:	33	38	48	22	42	22	31	25
169:	34	32	29	31	35	37	34	23
177:	23	32	30	33	29	28	32	29
185:	64	52	41	24	29	34	27	25
193:	26	20	32	31	36	34	30	25
201:	31	20	16	30	36	20	24	25
209:	33	26	26	31	16	32	28	19
217:	25	28	16	26	39	29	36	35
225:	24	24	22	27	26	24	22	21
233:	19	20	16	37	74	110	79	54
241:	41	49	24	19	18	21	23	17
249:	32	20	16	28	14	20	20	18
257:	23	10	15	12	16	14	22	20
265:	24	18	17	19	30	36	19	22
273:	17	17	15	27	21	27	22	13
281:	19	20	13	18	21	23	22	14
289:	16	23	21	29	24	46	43	32
297:	17	16	18	23	21	12	19	16
305:	15	20	11	12	16	10	16	14
313:	9	11	16	17	18	18	27	14
321:	12	10	15	8	12	14	16	8
329:	19	10	16	18	13	15	15	13
337:	17	30	28	19	16	13	11	8
345:	7	16	10	8	16	31	56	63
353:	28	11	14	13	13	15	12	11
361:	8	12	9	14	15	12	11	12

369:	11	11	14	14	11	10	9	6

Sample Title: FEEBRIS1D-16 059-061

Channel								
377:	5	8	17	10	8	9	9	11
385:	9	10	13	13	12	13	16	17
393:	13	10	5	10	12	10	13	14
401:	16	14	8	11	11	10	12	14
409:	15	11	8	8	15	3	6	9
417:	8	10	12	5	19	7	11	6
425:	11	9	12	5	5	13	8	7
433:	7	8	12	7	9	9	12	6
441:	13	7	8	8	8	6	2	6
449:	11	11	10	6	9	10	6	12
457:	15	6	13	8	12	14	14	16
465:	10	5	13	6	5	6	9	16
473:	7	8	7	8	6	4	6	14
481:	6	9	8	11	8	5	14	8
489:	7	7	6	10	5	5	7	11
497:	9	5	10	11	10	7	8	4
505:	8	12	11	13	21	14	31	21
513:	17	7	2	5	11	9	8	7
521:	7	7	5	6	8	14	8	5
529:	3	8	7	6	13	5	12	3
537:	4	9	8	7	3	5	8	7
545:	4	5	2	6	6	3	6	7
553:	6	2	8	5	9	6	4	6
561:	4	6	5	5	6	7	7	11
569:	10	8	11	5	5	8	9	8
577:	9	10	9	9	15	16	32	20
585:	11	15	5	5	2	7	6	6
593:	5	5	7	2	10	6	7	3
601:	3	8	3	5	6	5	14	20
609:	40	22	13	10	9	6	5	9
617:	5	9	0	5	3	5	7	7
625:	6	6	5	12	6	5	4	6
633:	3	5	10	5	5	3	3	6
641:	6	5	6	7	10	4	5	5
649:	5	2	5	6	7	8	2	5
657:	6	3	3	5	5	6	2	4
665:	5	6	7	7	6	3	4	6
673:	4	7	2	9	3	3	4	6
681:	6	2	7	4	11	7	6	5
689:	3	3	10	6	3	4	5	5
697:	9	11	7	6	4	6	8	4
705:	4	5	5	3	4	1	2	4
713:	1	4	5	5	3	10	7	8
721:	6	5	6	4	4	4	4	12
729:	4	3	5	2	6	2	3	6
737:	4	6	3	7	6	5	7	6
745:	8	7	1	7	6	6	6	3
753:	7	5	5	6	5	1	6	6
761:	6	5	3	3	2	3	7	4
769:	8	3	6	4	6	4	8	6
777:	7	6	7	4	4	11	7	1
785:	7	6	8	3	4	5	6	10
793:	4	7	8	4	5	2	3	4

801:	3	3	4	4	4	2	2	6

Sample Title: FEEBRIS1D-16 059-061

Channel								
809:	5	2	1	7	4	3	7	6
817:	4	2	3	3	3	3	2	5
825:	5	6	1	3	5	4	4	1
833:	3	2	6	6	5	3	5	2
841:	5	2	5	4	7	2	6	3
849:	5	10	5	3	8	5	5	2
857:	2	6	4	9	8	4	6	3
865:	3	1	3	4	6	1	3	4
873:	0	7	4	5	6	4	3	4
881:	6	2	2	5	6	6	3	2
889:	5	3	5	5	6	1	1	3
897:	4	2	4	5	4	5	3	6
905:	5	6	5	3	4	14	9	11
913:	3	6	0	5	4	3	2	2
921:	1	7	4	5	1	4	6	8
929:	5	1	1	5	4	8	3	4
937:	7	1	1	1	5	1	1	2
945:	2	5	3	3	4	2	3	5
953:	6	3	6	5	3	5	6	3
961:	0	4	6	4	3	7	9	13
969:	11	10	4	1	4	9	2	3
977:	2	3	6	0	7	1	5	9
985:	4	1	3	5	7	2	4	4
993:	1	3	1	3	3	9	3	4
1001:	6	2	6	8	3	7	2	4
1009:	2	6	4	4	4	2	7	4
1017:	5	4	4	3	5	4	4	5
1025:	3	4	1	3	6	7	4	2
1033:	4	3	6	2	1	2	5	3
1041:	0	4	7	2	2	4	4	6
1049:	4	6	2	1	4	5	7	4
1057:	4	2	7	1	5	7	5	2
1065:	1	2	5	4	3	3	3	7
1073:	7	2	5	4	4	4	2	7
1081:	6	5	5	6	4	5	4	8
1089:	1	2	5	4	4	2	8	6
1097:	2	2	6	3	5	5	4	1
1105:	4	3	1	7	1	6	6	3
1113:	2	5	5	3	4	3	10	12
1121:	5	5	4	5	10	3	3	5
1129:	2	1	5	2	5	5	5	7
1137:	1	2	4	4	5	7	9	6
1145:	6	3	2	6	4	5	4	6
1153:	6	3	9	7	3	5	2	5
1161:	7	8	2	3	2	6	5	1
1169:	6	4	0	2	6	3	4	2
1177:	2	3	9	5	5	6	2	4
1185:	5	2	3	4	2	6	3	5
1193:	2	6	5	4	3	9	2	7
1201:	8	7	7	4	2	4	8	3
1209:	5	4	4	4	5	6	7	7
1217:	2	0	7	4	3	4	4	10
1225:	6	5	4	8	5	6	1	8

1233:	4	10	7	3	5	9	12	5

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Channel								
1241:	2	6	7	4	3	8	3	3
1249:	4	4	2	3	2	3	2	5
1257:	2	6	3	6	3	5	1	2
1265:	4	2	6	2	1	0	5	2
1273:	4	1	2	4	3	3	4	1
1281:	3	6	6	6	3	2	3	2
1289:	4	1	5	4	3	1	1	3
1297:	4	3	3	2	3	3	5	3
1305:	1	4	0	2	1	2	2	2
1313:	5	1	0	3	3	2	0	1
1321:	5	2	1	3	1	3	2	1
1329:	1	1	3	2	0	3	3	4
1337:	3	1	3	4	1	3	0	1
1345:	3	2	2	2	2	2	1	0
1353:	0	1	7	1	5	1	2	4
1361:	3	3	2	2	4	3	1	0
1369:	0	1	1	1	0	1	1	4
1377:	0	1	3	5	2	1	1	1
1385:	0	1	1	0	2	3	0	0
1393:	1	2	1	2	3	3	2	0
1401:	2	0	2	1	1	1	0	1
1409:	1	1	2	0	0	1	1	1
1417:	1	0	0	0	1	1	1	0
1425:	3	4	1	1	2	2	1	2
1433:	1	2	2	2	0	3	3	1
1441:	0	2	2	1	3	1	0	0
1449:	3	0	2	1	2	2	1	1
1457:	0	1	17	66	89	81	31	6
1465:	1	0	1	0	2	0	0	0
1473:	0	0	1	0	0	1	1	1
1481:	0	2	2	0	0	0	0	0
1489:	0	0	1	1	2	0	0	2
1497:	1	1	1	1	0	1	2	0
1505:	1	1	0	1	0	0	1	1
1513:	1	2	0	0	1	2	0	0
1521:	0	1	0	1	0	0	0	0
1529:	2	1	0	2	0	3	0	0
1537:	2	1	0	0	2	0	0	0
1545:	0	2	1	0	1	0	1	0
1553:	0	1	0	0	2	1	2	3
1561:	1	0	1	0	1	1	0	1
1569:	1	1	0	0	0	0	1	1
1577:	1	1	0	0	0	2	2	1
1585:	0	1	0	3	2	2	1	0
1593:	1	1	1	1	3	0	1	1
1601:	0	0	1	0	0	0	1	1
1609:	3	0	1	0	3	0	2	0
1617:	0	0	1	0	0	1	1	1
1625:	1	3	0	2	0	0	3	5
1633:	1	2	1	1	1	0	1	0
1641:	1	1	1	1	1	0	0	0
1649:	1	1	1	1	2	1	0	1
1657:	1	0	0	0	0	0	1	1

1665:	0	1	2	1	0	0	1	0

Sample Title: FEEBRIS1D-16 059-061

Channel								
1673:	0	0	1	0	1	1	0	0
1681:	0	1	0	0	0	1	1	0
1689:	0	0	0	0	0	0	1	0
1697:	0	0	0	3	0	1	0	1
1705:	2	4	0	0	0	2	1	1
1713:	0	0	0	1	1	1	1	0
1721:	0	0	1	2	0	0	0	0
1729:	2	3	0	1	1	0	1	0
1737:	1	0	1	0	1	1	1	1
1745:	0	0	1	0	1	0	1	0
1753:	2	1	1	0	0	1	0	0
1761:	0	1	0	3	5	7	5	2
1769:	0	0	0	0	2	0	0	0
1777:	1	1	1	1	0	0	2	3
1785:	0	1	3	0	1	1	0	0
1793:	1	1	0	0	0	0	0	0
1801:	0	2	1	0	1	0	0	0
1809:	0	1	1	0	1	0	0	0
1817:	0	1	1	1	0	1	0	0
1825:	1	0	1	0	0	0	1	1
1833:	0	0	0	0	1	0	1	0
1841:	2	0	0	1	2	1	1	1
1849:	0	0	0	1	0	0	0	0
1857:	0	0	0	0	1	0	2	1
1865:	0	0	0	0	0	1	0	0
1873:	0	0	1	1	0	0	2	1
1881:	0	1	1	1	1	1	1	0
1889:	3	0	1	0	1	0	0	0
1897:	1	0	1	1	0	0	1	0
1905:	0	1	3	1	0	2	0	2
1913:	0	2	0	2	1	0	1	1
1921:	0	0	0	0	1	2	0	0
1929:	0	0	2	0	1	1	1	1
1937:	0	0	1	0	0	1	0	0
1945:	1	1	1	0	2	1	0	0
1953:	1	1	0	3	0	0	0	0
1961:	1	0	0	0	1	0	0	1
1969:	0	1	0	0	0	0	0	0
1977:	0	1	0	0	1	0	1	0
1985:	0	0	0	1	0	0	0	0
1993:	0	0	0	1	1	2	1	0
2001:	0	0	0	1	0	1	0	0
2009:	1	0	0	0	0	1	0	0
2017:	0	0	0	1	0	1	1	1
2025:	1	0	2	0	0	0	1	0
2033:	1	3	1	0	1	0	1	0
2041:	0	1	0	0	0	1	0	1
2049:	0	0	0	0	1	0	0	2
2057:	1	0	0	1	0	1	0	0
2065:	0	0	0	0	0	0	0	1
2073:	0	0	0	0	1	0	0	2
2081:	0	0	0	2	1	0	0	2
2089:	1	2	1	0	0	1	0	0

2097:	1	1	1	1	0	2	1	2

Sample Title: FEEBRIS1D-16 059-061

Channel								
2105:	0	1	2	0	0	1	0	0
2113:	0	0	0	1	0	1	1	2
2121:	2	1	2	1	2	1	1	0
2129:	0	0	0	1	0	1	0	1
2137:	0	1	1	0	0	1	0	0
2145:	0	1	0	0	0	0	0	0
2153:	0	1	0	0	0	1	1	1
2161:	0	1	3	0	1	0	1	1
2169:	1	0	0	0	0	0	1	0
2177:	0	0	0	0	1	0	1	1
2185:	0	0	1	0	0	1	1	0
2193:	1	1	0	0	0	0	0	0
2201:	0	1	1	1	1	3	0	0
2209:	0	0	1	0	0	1	1	0
2217:	1	0	0	0	0	0	0	1
2225:	0	1	1	0	1	0	0	0
2233:	3	0	0	0	0	0	1	0
2241:	1	0	0	0	0	0	2	0
2249:	0	0	1	0	1	0	2	1
2257:	1	1	0	1	1	1	0	0
2265:	0	0	0	0	0	1	2	0
2273:	0	0	0	2	0	0	0	0
2281:	1	2	0	0	0	0	0	2
2289:	1	1	0	0	0	0	0	1
2297:	0	0	1	0	0	1	0	0
2305:	1	1	0	0	0	1	0	0
2313:	1	1	0	1	1	0	0	1
2321:	0	0	1	0	2	2	2	0
2329:	0	0	1	0	1	0	0	0
2337:	0	0	1	0	0	0	1	0
2345:	1	2	0	0	0	1	0	1
2353:	0	0	0	0	1	0	1	0
2361:	1	1	0	1	0	1	0	0
2369:	0	1	0	0	0	0	0	0
2377:	0	2	0	0	0	0	0	1
2385:	0	0	0	0	1	0	0	0
2393:	0	1	0	0	1	0	0	0
2401:	1	0	1	0	0	0	0	0
2409:	0	0	0	0	0	0	2	0
2417:	0	0	0	1	1	0	0	1
2425:	0	1	0	1	1	0	2	2
2433:	0	1	0	1	1	0	1	0
2441:	0	0	0	1	2	1	1	0
2449:	0	0	1	0	1	1	0	0
2457:	1	1	0	0	0	0	0	0
2465:	0	0	0	0	0	0	0	0
2473:	1	0	1	0	0	0	0	0
2481:	0	0	1	0	0	0	0	1
2489:	0	0	0	0	0	0	0	0
2497:	0	0	0	0	0	0	0	0
2505:	0	0	0	0	0	1	0	0
2513:	0	0	0	0	1	0	0	0
2521:	0	0	0	0	0	0	0	0

2529:	0	0	0	1	1	0	0	0

Sample Title: FEEBRIS1D-16 059-061

Channel								
2537:	1	0	0	0	0	0	0	1
2545:	0	1	0	0	0	0	0	2
2553:	0	1	0	0	0	0	0	0
2561:	1	0	0	0	0	2	2	0
2569:	1	1	0	0	0	0	0	0
2577:	1	0	1	0	0	0	0	0
2585:	0	0	0	0	0	1	0	0
2593:	0	0	0	1	1	0	0	0
2601:	1	0	0	0	0	0	0	0
2609:	0	0	0	0	1	1	4	5
2617:	5	2	0	0	0	0	0	0
2625:	0	1	0	0	0	0	0	0
2633:	2	0	0	0	0	0	0	0
2641:	0	0	0	0	0	0	1	0
2649:	0	0	0	0	1	0	0	1
2657:	0	0	0	1	0	0	0	1
2665:	0	0	0	0	1	0	0	0
2673:	0	0	1	0	0	0	0	0
2681:	1	0	0	0	0	1	1	0
2689:	0	0	0	0	0	0	0	0
2697:	0	0	1	0	0	1	0	0
2705:	0	0	1	0	0	0	0	0
2713:	0	1	0	1	0	0	0	0
2721:	0	0	1	0	1	0	0	0
2729:	0	0	0	0	0	0	1	0
2737:	0	0	0	0	0	1	0	0
2745:	0	0	0	0	1	0	1	0
2753:	0	0	1	0	1	0	0	0
2761:	0	0	1	0	0	0	1	1
2769:	0	0	1	1	0	1	0	1
2777:	0	0	0	0	0	0	1	0
2785:	0	1	0	0	0	0	0	0
2793:	0	1	0	0	0	0	1	0
2801:	0	1	1	0	0	0	0	1
2809:	0	0	0	1	0	0	0	0
2817:	0	1	0	0	0	1	0	0
2825:	0	0	1	1	0	0	0	0
2833:	0	0	1	0	1	0	0	0
2841:	0	0	0	1	0	2	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	1	0	0	0	0
2865:	0	0	0	0	0	1	0	0
2873:	1	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	1	0
2889:	2	0	1	0	0	0	0	0
2897:	0	0	0	0	0	1	2	0
2905:	0	0	0	0	0	0	1	0
2913:	0	0	0	0	0	0	0	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	1	0	1	0
2945:	0	0	0	0	0	0	0	1
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-16 059-061

Channel								
2969:	0	1	0	1	0	0	0	0
2977:	1	0	0	0	0	0	0	1
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	1	0	0	1	0
3001:	0	0	0	0	0	1	0	0
3009:	0	0	1	0	0	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	1	0	0	0	0	0	0
3033:	1	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	1	0	1	0	0
3057:	1	0	0	0	1	0	0	0
3065:	1	0	0	0	0	0	0	0
3073:	0	0	0	0	0	1	0	0
3081:	1	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	2	0	0	0	1	0
3105:	0	1	0	0	0	0	0	0
3113:	0	1	0	0	0	0	0	0
3121:	1	0	1	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	1	1
3145:	0	1	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	1
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	1
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	1	0	0	0
3193:	0	0	0	1	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	1	1	0	0	0	0	0	1
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	1	1
3241:	0	0	1	0	0	0	0	0
3249:	1	0	0	0	0	0	0	0
3257:	0	0	0	0	1	1	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	1	0	0	0	1	0	1	1
3297:	0	1	0	0	0	0	0	0
3305:	0	0	1	0	1	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	1	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	1	0	0	0
3345:	0	1	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-16 059-061

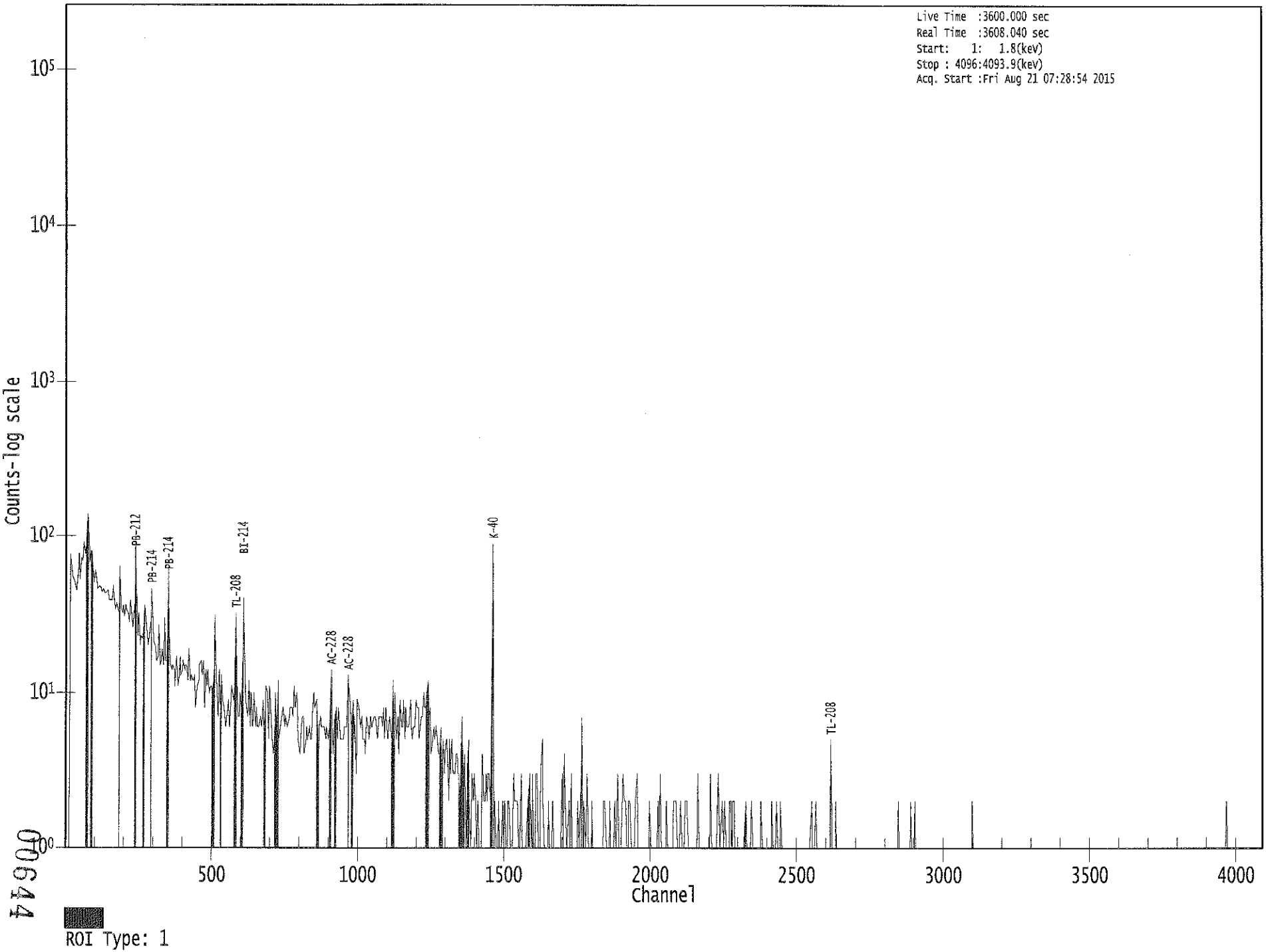
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	1	0	0	0	0	0	0
3417:	0	0	1	0	0	0	0	0
3425:	0	0	0	0	1	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	1	0	0	0	0	0	1
3473:	0	0	0	0	0	0	0	0
3481:	0	1	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	1	0	0	0	1	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	1	0	1	0
3529:	0	0	0	0	0	0	0	0
3537:	1	0	0	0	0	0	1	0
3545:	0	1	0	0	0	0	0	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	1	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	1	0	0	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	1	0	0
3641:	0	0	0	1	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	1	0	1
3665:	0	0	0	1	0	0	0	0
3673:	0	0	0	0	0	0	1	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	1	0	1	1	0
3713:	0	0	1	0	0	0	0	0
3721:	0	0	0	0	1	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	1	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	1	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	1
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	1	0
3809:	0	0	1	0	1	0	0	0
3817:	0	0	1	1	0	0	0	1

3825:	0	0	1	0	0	0	0	0

Sample Title: FEEBRIS1D-16 059-061

Channel								
3833:	1	0	0	0	0	0	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	1	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	1	0	0	0	0	0
3889:	0	0	1	0	0	0	0	0
3897:	0	0	0	0	0	0	0	1
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	1	0
3921:	0	1	0	0	0	0	0	0
3929:	1	0	0	0	0	0	1	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	1	0	0	0	0
3953:	1	0	0	0	0	0	0	0
3961:	0	0	0	0	0	1	0	0
3969:	2	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	1
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	1	0
4009:	0	0	0	0	0	0	0	1
4017:	0	1	0	0	0	0	1	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	1	0	0	1	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	1	0
4089:	1	0	0	0	0	0	0	0

0000026234.CNF



0644

Apex-Gamma

Analysis Report for 1507182-11
DUPLICATE 4

8/21

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1507182-11
Sample Description	: DUPLICATE 4
Sample Type	: SOIL
Sample Size	: 6.995E+02 grams
Facility	: Countroom
Sample Taken On	: 7/27/2015 6:48:05AM
Acquisition Started	: 8/21/2015 8:34:22AM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3612.2 seconds
Dead Time	: 0.34 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 26240

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/21/15

Analysis Report for 1507182-11

DUPLICATE 4

PEAK LOCATE REPORT

Peak Locate Performed on : 8/21/2015 9:34:36AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	63.33	62.60	0.0000	0.00
2	76.35	75.62	0.0000	0.00
3	93.44	92.71	0.0000	0.00
4	159.96	159.26	0.0000	0.00
5	239.21	238.55	0.0000	0.00
6	270.57	269.92	0.0000	0.00
7	295.18	294.55	0.0000	0.00
8	338.49	337.87	0.0000	0.00
9	352.37	351.76	0.0000	0.00
10	404.95	404.36	0.0000	0.00
11	463.45	462.89	0.0000	0.00
12	511.64	511.10	0.0000	0.00
13	584.37	583.86	0.0000	0.00
14	609.34	608.85	0.0000	0.00
15	763.79	763.37	0.0000	0.00
16	888.21	887.85	0.0000	0.00
17	911.06	910.72	0.0000	0.00
18	936.47	936.15	0.0000	0.00
19	949.78	949.46	0.0000	0.00
20	969.63	969.32	0.0000	0.00
21	1030.78	1030.50	0.0000	0.00
22	1087.04	1086.80	0.0000	0.00
23	1127.15	1126.93	0.0000	0.00
24	1154.70	1154.49	0.0000	0.00
25	1355.02	1354.93	0.0000	0.00
26	1461.41	1461.38	0.0000	0.00
27	1538.31	1538.33	0.0000	0.00
28	1549.44	1549.46	0.0000	0.00
29	1591.27	1591.32	0.0000	0.00
30	1764.99	1765.15	0.0000	0.00
31	1994.82	1995.14	0.0000	0.00
32	2202.96	2203.43	0.0000	0.00
33	2615.50	2616.27	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1507182-11

DUPLICATE 4

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 9:34:36AM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
1	63.33	59 -	66	62.60	1.17E+02	74.83	8.55E+02	1.47
2	76.35	70 -	79	75.62	3.48E+02	97.41	1.15E+03	3.86
3	93.44	88 -	98	92.71	1.48E+02	94.76	1.05E+03	2.82
4	159.96	156 -	162	159.26	4.16E+01	48.33	3.93E+02	4.30
5	239.21	234 -	244	238.55	2.27E+02	66.51	4.72E+02	2.57
6	270.57	267 -	273	269.92	2.68E+01	33.96	1.92E+02	1.08
7	295.18	290 -	299	294.55	9.39E+01	47.99	2.76E+02	2.89
8	338.49	331 -	344	337.87	5.70E+01	54.77	3.08E+02	3.34
9	352.37	346 -	357	351.76	1.13E+02	55.17	3.24E+02	1.93
10	404.95	401 -	407	404.36	2.45E+01	25.60	1.01E+02	3.57
11	463.45	457 -	468	462.89	4.30E+01	41.76	1.92E+02	4.80
12	511.64	506 -	516	511.10	7.82E+01	32.50	9.97E+01	2.03
13	584.37	579 -	589	583.86	7.65E+01	32.07	8.90E+01	1.95
14	609.34	605 -	613	608.85	8.35E+01	32.09	1.05E+02	2.98
15	763.79	755 -	771	763.37	4.87E+01	35.54	1.01E+02	9.36
16	888.21	884 -	891	887.85	1.53E+01	17.20	3.74E+01	2.02
17	911.06	903 -	916	910.72	4.40E+01	26.08	5.60E+01	1.65
18	936.47	928 -	943	936.15	2.64E+01	27.28	6.33E+01	7.85
19	949.78	944 -	955	949.46	2.25E+01	21.82	4.90E+01	7.89
20	969.63	966 -	973	969.32	1.47E+01	19.29	5.27E+01	3.05
21	1030.78	1026 -	1036	1030.50	1.90E+01	21.17	5.01E+01	2.73
22	1087.04	1082 -	1091	1086.80	1.56E+01	16.43	2.89E+01	7.61
23	1127.15	1124 -	1133	1126.93	2.32E+01	22.07	5.96E+01	1.84
24	1154.70	1151 -	1159	1154.49	1.62E+01	17.38	3.75E+01	3.34
25	1355.02	1350 -	1357	1354.93	8.69E+00	9.17	8.62E+00	2.62
26	1461.41	1454 -	1466	1461.38	2.85E+02	36.95	2.90E+01	2.63
27	1538.31	1534 -	1541	1538.33	6.89E+00	7.21	4.22E+00	1.55
28	1549.44	1546 -	1554	1549.46	7.40E+00	7.76	5.20E+00	2.65
29	1591.27	1587 -	1595	1591.32	1.15E+01	10.22	9.00E+00	1.50
30	1764.99	1760 -	1769	1765.15	1.30E+01	7.21	0.00E+00	3.49
31	1994.82	1992 -	1998	1995.14	7.00E+00	5.29	0.00E+00	1.16
32	2202.96	2199 -	2206	2203.43	7.00E+00	5.29	0.00E+00	3.00
33	2615.50	2612 -	2620	2616.27	1.50E+01	7.75	0.00E+00	3.10

Analysis Report for 1507182-11

DUPLICATE 4

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/21/2015 9:34:36AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	63.33	59 -	66	1.17E+02	74.83	8.55E+02	5.89E+01
2	76.35	70 -	79	3.48E+02	97.41	1.15E+03	7.40E+01
3	93.44	88 -	98	1.48E+02	94.76	1.05E+03	7.53E+01
4	159.96	156 -	162	4.16E+01	48.33	3.93E+02	3.83E+01
5	239.21	234 -	244	2.27E+02	66.51	4.72E+02	4.87E+01
6	270.57	267 -	273	2.68E+01	33.96	1.92E+02	2.66E+01
7	295.18	290 -	299	9.39E+01	47.99	2.76E+02	3.61E+01
8	338.49	331 -	344	5.70E+01	54.77	3.08E+02	4.33E+01
9	352.37	346 -	357	1.13E+02	55.17	3.24E+02	4.19E+01
10	404.95	401 -	407	2.45E+01	25.60	1.01E+02	1.94E+01
11	463.45	457 -	468	4.30E+01	41.76	1.92E+02	3.26E+01
12	511.64	506 -	516	7.82E+01	32.50	9.97E+01	2.24E+01
13	584.37	579 -	589	7.65E+01	32.07	8.90E+01	2.21E+01
14	609.34	605 -	613	8.35E+01	32.09	1.05E+02	2.17E+01
15	763.79	755 -	771	4.87E+01	35.54	1.01E+02	2.69E+01
16	888.21	884 -	891	1.53E+01	17.20	3.74E+01	1.26E+01
17	911.06	903 -	916	4.40E+01	26.08	5.60E+01	1.85E+01
18	936.47	928 -	943	2.64E+01	27.28	6.33E+01	2.08E+01
19	949.78	944 -	955	2.25E+01	21.82	4.90E+01	1.62E+01
20	969.63	966 -	973	1.47E+01	19.29	5.27E+01	1.46E+01
21	1030.78	1026 -	1036	1.90E+01	21.17	5.01E+01	1.59E+01
22	1087.04	1082 -	1091	1.56E+01	16.43	2.89E+01	1.18E+01
23	1127.15	1124 -	1133	2.32E+01	22.07	5.96E+01	1.63E+01
24	1154.70	1151 -	1159	1.62E+01	17.38	3.75E+01	1.27E+01
25	1355.02	1350 -	1357	8.69E+00	9.17	8.62E+00	5.77E+00
26	1461.41	1454 -	1466	2.85E+02	36.95	2.90E+01	1.24E+01
27	1538.31	1534 -	1541	6.89E+00	7.21	4.22E+00	4.06E+00
28	1549.44	1546 -	1554	7.40E+00	7.76	5.20E+00	4.55E+00
29	1591.27	1587 -	1595	1.15E+01	10.22	9.00E+00	6.29E+00
30	1764.99	1760 -	1769	1.30E+01	7.21	0.00E+00	0.00E+00
31	1994.82	1992 -	1998	7.00E+00	5.29	0.00E+00	0.00E+00

Analysis Report for 1507182-11

DUPLICATE 4

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	2202.96	2199 -	2206	7.00E+00	5.29	0.00E+00	0.00E+00
33	2615.50	2612 -	2620	1.50E+01	7.75	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/21/2015 9:34:36AM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
1	63.33	59 -	66	62.60	1.17E+02	74.83	8.55E+02	TH-234 TH-230
2	76.35	70 -	79	75.62	3.48E+02	97.41	1.15E+03	.....
3	93.44	88 -	98	92.71	1.48E+02	94.76	1.05E+03	GA-67
4	159.96	156 -	162	159.26	4.16E+01	48.33	3.93E+02	TE123M
5	239.21	234 -	244	238.55	2.27E+02	66.51	4.72E+02	PB-212
6	270.57	267 -	273	269.92	2.68E+01	33.96	1.92E+02	.....
7	295.18	290 -	299	294.55	9.39E+01	47.99	2.76E+02	PB-214
8	338.49	331 -	344	337.87	5.70E+01	54.77	3.08E+02	AC-228
9	352.37	346 -	357	351.76	1.13E+02	55.17	3.24E+02	PB-214
10	404.95	401 -	407	404.36	2.45E+01	25.60	1.01E+02	PB-211
11	463.45	457 -	468	462.89	4.30E+01	41.76	1.92E+02	SB-125
12	511.64	506 -	516	511.10	7.82E+01	32.50	9.97E+01	.....
13	584.37	579 -	589	583.86	7.65E+01	32.07	8.90E+01	.....
14	609.34	605 -	613	608.85	8.35E+01	32.09	1.05E+02	BI-214
15	763.79	755 -	771	763.37	4.87E+01	35.54	1.01E+02	AG-110M
16	888.21	884 -	891	887.85	1.53E+01	17.20	3.74E+01	.....
17	911.06	903 -	916	910.72	4.40E+01	26.08	5.60E+01	AC-228
18	936.47	928 -	943	936.15	2.64E+01	27.28	6.33E+01	.....
19	949.78	944 -	955	949.46	2.25E+01	21.82	4.90E+01	.....
20	969.63	966 -	973	969.32	1.47E+01	19.29	5.27E+01	AC-228
21	1030.78	1026 -	1036	1030.50	1.90E+01	21.17	5.01E+01	.....
22	1087.04	1082 -	1091	1086.80	1.56E+01	16.43	2.89E+01	.....
23	1127.15	1124 -	1133	1126.93	2.32E+01	22.07	5.96E+01	.....

Analysis Report for 1507182-11

DUPLICATE 4

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
24	1154.70	1151 -	1159	1154.49	1.62E+01	17.38	3.75E+01	.....
25	1355.02	1350 -	1357	1354.93	8.69E+00	9.17	8.62E+00	.....
26	1461.41	1454 -	1466	1461.38	2.85E+02	36.95	2.90E+01	K-40
27	1538.31	1534 -	1541	1538.33	6.89E+00	7.21	4.22E+00	.....
28	1549.44	1546 -	1554	1549.46	7.40E+00	7.76	5.20E+00	.....
29	1591.27	1587 -	1595	1591.32	1.15E+01	10.22	9.00E+00	.....
30	1764.99	1760 -	1769	1765.15	1.30E+01	7.21	0.00E+00	BI-214
31	1994.82	1992 -	1998	1995.14	7.00E+00	5.29	0.00E+00	.....
32	2202.96	2199 -	2206	2203.43	7.00E+00	5.29	0.00E+00	.....
33	2615.50	2612 -	2620	2616.27	1.50E+01	7.75	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/21/2015 9:34:36AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	63.33	1.17E+02	74.83	2.33E-02	1.76E-03
2	76.35	3.48E+02	97.41	2.12E-02	1.69E-03
3	93.44	1.48E+02	94.76	1.89E-02	1.61E-03
4	159.96	4.16E+01	48.33	1.31E-02	1.26E-03
5	239.21	2.27E+02	66.51	9.40E-03	9.85E-04
6	270.57	2.68E+01	33.96	8.43E-03	8.88E-04
7	295.18	9.39E+01	47.99	7.78E-03	8.43E-04
8	338.49	5.70E+01	54.77	6.86E-03	7.95E-04
9	352.37	1.13E+02	55.17	6.60E-03	7.80E-04
10	404.95	2.45E+01	25.60	5.78E-03	7.17E-04
11	463.45	4.30E+01	41.76	5.07E-03	6.31E-04
12	511.64	7.82E+01	32.50	4.60E-03	5.60E-04
13	584.37	7.65E+01	32.07	4.04E-03	4.54E-04
14	609.34	8.35E+01	32.09	3.88E-03	4.17E-04
15	763.79	4.87E+01	35.54	3.10E-03	2.83E-04
16	888.21	1.53E+01	17.20	2.68E-03	2.13E-04
17	911.06	4.40E+01	26.08	2.61E-03	2.06E-04
18	936.47	2.64E+01	27.28	2.54E-03	2.03E-04
19	949.78	2.25E+01	21.82	2.51E-03	2.01E-04
20	969.63	1.47E+01	19.29	2.46E-03	1.99E-04

Analysis Report for 1507182-11

DUPLICATE 4

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
21	1030.78	1.90E+01	21.17	2.32E-03	1.91E-04
22	1087.04	1.56E+01	16.43	2.21E-03	1.84E-04
23	1127.15	2.32E+01	22.07	2.13E-03	1.79E-04
24	1154.70	1.62E+01	17.38	2.08E-03	1.75E-04
25	1355.02	8.69E+00	9.17	1.80E-03	2.11E-04
26	1461.41	2.85E+02	36.95	1.68E-03	1.89E-04
27	1538.31	6.89E+00	7.21	1.61E-03	1.73E-04
28	1549.44	7.40E+00	7.76	1.60E-03	1.71E-04
29	1591.27	1.15E+01	10.22	1.56E-03	1.62E-04
30	1764.99	1.30E+01	7.21	1.43E-03	1.26E-04
31	1994.82	7.00E+00	5.29	1.30E-03	1.11E-04
32	2202.96	7.00E+00	5.29	1.21E-03	1.11E-04
33	2615.50	1.50E+01	7.75	1.07E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/21/2015 9:34:36AM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	63.33	1.17E+02	74.83	5.14E+01	9.31E+00	6.51E+01	7.54E+01
2	76.35	3.48E+02	97.41			3.48E+02	9.74E+01
3	93.44	1.48E+02	94.76	4.99E+01	7.70E+00	9.83E+01	9.51E+01
4	159.96	4.16E+01	48.33			4.16E+01	4.83E+01
5	239.21	2.27E+02	66.51	1.16E+01	6.85E+00	2.15E+02	6.69E+01
6	270.57	2.68E+01	33.96			2.68E+01	3.40E+01
7	295.18	9.39E+01	47.99			9.39E+01	4.80E+01
8	338.49	5.70E+01	54.77			5.70E+01	5.48E+01
9	352.37	1.13E+02	55.17			1.13E+02	5.52E+01
10	404.95	2.45E+01	25.60			2.45E+01	2.56E+01
11	463.45	4.30E+01	41.76			4.30E+01	4.18E+01
12	511.64	7.82E+01	32.50	4.04E+01	4.86E+00	3.77E+01	3.29E+01
13	584.37	7.65E+01	32.07			7.65E+01	3.21E+01
14	609.34	8.35E+01	32.09	1.70E+00	3.46E+00	8.18E+01	3.23E+01
15	763.79	4.87E+01	35.54			4.87E+01	3.55E+01
16	888.21	1.53E+01	17.20			1.53E+01	1.72E+01
17	911.06	4.40E+01	26.08			4.40E+01	2.61E+01

Analysis Report for 1507182-11

DUPLICATE 4

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
18	936.47	2.64E+01	27.28			2.64E+01	2.73E+01
19	949.78	2.25E+01	21.82			2.25E+01	2.18E+01
20	969.63	1.47E+01	19.29			1.47E+01	1.93E+01
21	1030.78	1.90E+01	21.17			1.90E+01	2.12E+01
22	1087.04	1.56E+01	16.43			1.56E+01	1.64E+01
23	1127.15	2.32E+01	22.07			2.32E+01	2.21E+01
24	1154.70	1.62E+01	17.38			1.62E+01	1.74E+01
25	1355.02	8.69E+00	9.17			8.69E+00	9.17E+00
26	1461.41	2.85E+02	36.95			2.85E+02	3.69E+01
27	1538.31	6.89E+00	7.21			6.89E+00	7.21E+00
28	1549.44	7.40E+00	7.76			7.40E+00	7.76E+00
29	1591.27	1.15E+01	10.22			1.15E+01	1.02E+01
30	1764.99	1.30E+01	7.21	1.50E-01	9.97E-01	1.29E+01	7.28E+00
31	1994.82	7.00E+00	5.29			7.00E+00	5.29E+00
32	2202.96	7.00E+00	5.29			7.00E+00	5.29E+00
33	2615.50	1.50E+01	7.75			1.50E+01	7.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/21/2015 9:34:36AM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	63.33	1.17E+02	74.83	5.14E+01	9.31E+00	6.51E+01	7.54E+01
2	76.35	3.48E+02	97.41			3.48E+02	9.74E+01
3	93.44	1.48E+02	94.76	4.99E+01	7.70E+00	9.83E+01	9.51E+01
4	159.96	4.16E+01	48.33			4.16E+01	4.83E+01
5	239.21	2.27E+02	66.51	1.16E+01	6.85E+00	2.15E+02	6.69E+01
6	270.57	2.68E+01	33.96			2.68E+01	3.40E+01
7	295.18	9.39E+01	47.99			9.39E+01	4.80E+01
8	338.49	5.70E+01	54.77			5.70E+01	5.48E+01
9	352.37	1.13E+02	55.17			1.13E+02	5.52E+01
10	404.95	2.45E+01	25.60			2.45E+01	2.56E+01
11	463.45	4.30E+01	41.76			4.30E+01	4.18E+01
12	511.64	7.82E+01	32.50	4.04E+01	4.86E+00	3.77E+01	3.29E+01

Analysis Report for 1507182-11

DUPLICATE 4

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
13	584.37	7.65E+01	32.07			7.65E+01	3.21E+01
14	609.34	8.35E+01	32.09	1.70E+00	3.46E+00	8.18E+01	3.23E+01
15	763.79	4.87E+01	35.54			4.87E+01	3.55E+01
16	888.21	1.53E+01	17.20			1.53E+01	1.72E+01
17	911.06	4.40E+01	26.08			4.40E+01	2.61E+01
18	936.47	2.64E+01	27.28			2.64E+01	2.73E+01
19	949.78	2.25E+01	21.82			2.25E+01	2.18E+01
20	969.63	1.47E+01	19.29			1.47E+01	1.93E+01
21	1030.78	1.90E+01	21.17			1.90E+01	2.12E+01
22	1087.04	1.56E+01	16.43			1.56E+01	1.64E+01
23	1127.15	2.32E+01	22.07			2.32E+01	2.21E+01
24	1154.70	1.62E+01	17.38			1.62E+01	1.74E+01
25	1355.02	8.69E+00	9.17			8.69E+00	9.17E+00
26	1461.41	2.85E+02	36.95			2.85E+02	3.69E+01
27	1538.31	6.89E+00	7.21			6.89E+00	7.21E+00
28	1549.44	7.40E+00	7.76			7.40E+00	7.76E+00
29	1591.27	1.15E+01	10.22			1.15E+01	1.02E+01
30	1764.99	1.30E+01	7.21	1.50E-01	9.97E-01	1.29E+01	7.28E+00
31	1994.82	7.00E+00	5.29			7.00E+00	5.29E+00
32	2202.96	7.00E+00	5.29			7.00E+00	5.29E+00
33	2615.50	1.50E+01	7.75			1.50E+01	7.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.945	1460.81	*	10.67	1.70E+01	2.94E+00
GA-67	0.446	93.31	*	35.70	3.23E+01	1.16E+02
		208.95		2.24		
		300.22		16.00		
TE123M	0.863	159.00	*	84.10	4.69E-02	5.47E-02
PB-211	0.339	404.84	*	2.90	1.57E+00	1.65E+00
		831.96		2.90		
PB-212	0.848	238.63	*	44.60	5.51E-01	1.81E-01
		300.09		3.41		
BI-214	0.672	609.31	*	46.30	4.89E-01	2.00E-01

Analysis Report for 1507182-11

DUPLICATE 4

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.672	1120.29		15.10		
		1764.49	*	15.80	6.09E-01	3.49E-01
		2204.22		4.98		
PB-214	0.979	295.21	*	19.19	6.75E-01	3.52E-01
		351.92	*	37.19	4.94E-01	2.48E-01
AC-228	0.986	338.32	*	11.40	7.83E-01	7.58E-01
		911.07	*	27.70	6.53E-01	3.90E-01
		969.11	*	16.60	3.86E-01	5.08E-01
TH-234	1.000	63.29	*	3.80	7.91E-01	9.18E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 9:34:36AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
2	76.35	9.65799E-02	14.01		
6	270.57	7.43564E-03	63.44		
11	463.45	1.19474E-02	48.55	Tol.	SB-125
12	511.64	1.04823E-02	43.55	Sum	
13	584.37	2.12443E-02	20.97		
15	763.79	1.35199E-02	36.51	Tol.	AG-110M
16	888.21	4.24837E-03	56.25		
18	936.47	7.32280E-03	51.73		
19	949.78	6.24705E-03	48.51	S-Esc	
21	1030.78	5.26515E-03	55.85		
22	1087.04	4.32407E-03	52.78		
23	1127.15	6.44130E-03	47.58		
24	1154.70	4.51190E-03	53.49		
25	1355.02	2.41453E-03	52.72		
27	1538.31	1.91358E-03	52.34		
28	1549.44	2.05556E-03	52.45		
29	1591.27	3.19444E-03	44.45		
31	1994.82	1.94444E-03	37.80		
32	2202.96	1.94444E-03	37.80		
33	2615.50	4.16667E-03	25.82	Tol.	TL-208

Analysis Report for 1507182-11

DUPLICATE 4

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.94	1460.81	*	10.67	1.70E+01	2.94E+00
GA-67	0.44	93.31	*	35.70	3.23E+01	1.16E+02
		208.95		2.24		
		300.22		16.00		
TE123M	0.86	159.00	*	84.10	4.69E-02	5.47E-02
PB-211	0.33	404.84	*	2.90	1.57E+00	1.65E+00
		831.96		2.90		
PB-212	0.84	238.63	*	44.60	5.51E-01	1.81E-01
		300.09		3.41		
BI-214	0.67	609.31	*	46.30	4.89E-01	2.00E-01
		1120.29		15.10		
		1764.49	*	15.80	6.09E-01	3.49E-01
		2204.22		4.98		
PB-214	0.97	295.21	*	19.19	6.75E-01	3.52E-01
		351.92	*	37.19	4.94E-01	2.48E-01
AC-228	0.98	338.32	*	11.40	7.83E-01	7.58E-01
		911.07	*	27.70	6.53E-01	3.90E-01
		969.11	*	16.60	3.86E-01	5.08E-01
TH-234	1.00	63.29	*	3.80	7.91E-01	9.18E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1507182-11

DUPLICATE 4

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.945	1.70E+01	2.94E+00	
GA-67	0.446	3.23E+01	1.16E+02	
TE123M	0.863	4.69E-02	5.47E-02	
PB-211	0.339	1.57E+00	1.65E+00	
PB-212	0.848	5.51E-01	1.81E-01	
BI-214	0.672	5.19E-01	1.74E-01	
PB-214	0.979	5.54E-01	2.03E-01	
AC-228	0.986	5.87E-01	2.87E-01	
TH-234	1.000	7.91E-01	9.18E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

00656

Analysis Report for 1507182-11

DUPLICATE 4

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/21/2015 9:34:36AM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
2	76.35	9.65799E-02	14.01		
6	270.57	7.43564E-03	63.44		
11	463.45	1.19474E-02	48.55	Tol.	SB-125
12	511.64	1.04823E-02	43.55	Sum	
13	584.37	2.12443E-02	20.97		
15	763.79	1.35199E-02	36.51	Tol.	AG-110M
16	888.21	4.24837E-03	56.25		
18	936.47	7.32280E-03	51.73		
19	949.78	6.24705E-03	48.51	S-Esc	
21	1030.78	5.26515E-03	55.85		
22	1087.04	4.32407E-03	52.78		
23	1127.15	6.44130E-03	47.58		
24	1154.70	4.51190E-03	53.49		
25	1355.02	2.41453E-03	52.72		
27	1538.31	1.91358E-03	52.34		
28	1549.44	2.05556E-03	52.45		
29	1591.27	3.19444E-03	44.45		
31	1994.82	1.94444E-03	37.80		
32	2202.96	1.94444E-03	37.80		
33	2615.50	4.16667E-03	25.82	Tol.	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	3.69E-01	1.17E+00	1.17E+00
+	NA-22	1274.54		99.94	-3.13E-02	1.35E-01	1.35E-01
+	NA-24	1368.53		99.99	5.14E+10	9.32E+10	1.57E+11
		2754.09		99.86	1.27E+10		9.32E+10
+	AL-26	1808.65		99.76	1.38E-02	1.15E-01	1.15E-01
+	K-40	1460.81	*	10.67	1.70E+01	1.64E+00	1.64E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	2.92E-03	5.95E-02	5.95E-02
		78.34		96.00	-1.08E-02		7.25E-02
+	SC-46	889.25		99.98	-1.42E-02	1.49E-01	1.49E-01
		1120.51		99.99	-2.62E-02		1.98E-01
+	V-48	983.52		99.98	-1.46E-02	3.54E-01	3.54E-01
		1312.10		97.50	4.25E-02		4.33E-01
+	CR-51	320.08		9.83	-1.15E-01	1.51E+00	1.51E+00
+	MN-54	834.83		99.97	-2.45E-02	1.24E-01	1.24E-01
+	CO-56	846.75		99.96	2.72E-02	1.65E-01	1.65E-01
		1037.75		14.03	9.73E-02		1.22E+00
		1238.25		67.00	7.91E-02		3.71E-01
		1771.40		15.51	-5.03E-01		7.91E-01
		2598.48		16.90	0.00E+00		1.99E-01
+	CO-57	122.06		85.51	-6.65E-02	7.45E-02	7.45E-02
		136.48		10.60	1.44E-01		6.71E-01
+	CO-58	810.76		99.40	6.88E-02	1.53E-01	1.53E-01
+	FE-59	1099.22		56.50	5.05E-02	3.46E-01	3.46E-01
		1291.56		43.20	2.20E-01		5.58E-01
+	CO-60	1173.22		100.00	5.49E-03	1.36E-01	1.84E-01
		1332.49		100.00	-1.81E-02		1.36E-01
+	ZN-65	1115.52		50.75	-1.53E-01	3.35E-01	3.35E-01
+	GA-67	93.31	*	35.70	3.23E+01	5.12E+01	5.12E+01
		208.95		2.24	9.75E+01		7.14E+02
		300.22		16.00	3.02E+00		1.10E+02
+	SE-75	121.11		16.70	-4.26E-02	1.21E-01	4.26E-01
		136.00		59.20	-2.13E-02		1.28E-01
		264.65		59.80	-7.16E-02		1.21E-01
		279.53		25.20	6.07E-02		3.78E-01
		400.65		11.40	-4.94E-02		8.64E-01
+	RB-82	776.52		13.00	-9.50E-02	1.51E+00	1.51E+00
+	RB-83	520.41		46.00	1.62E-02	2.54E-01	2.54E-01
		529.64		30.30	1.20E-02		4.00E-01
		552.65		16.40	1.45E-01		7.86E-01
+	KR-85	513.99		0.43	2.58E+01	2.86E+01	2.86E+01
+	SR-85	513.99		99.27	1.47E-01	1.63E-01	1.63E-01
+	Y-88	898.02		93.40	2.98E-02	1.45E-01	1.52E-01
		1836.01		99.38	7.32E-02		1.45E-01
+	NB-93M	16.57		9.43	7.21E-01	3.37E-01	3.37E-01
+	NB-94	702.63		100.00	-7.71E-03	1.19E-01	1.19E-01
		871.10		100.00	1.38E-02		1.24E-01

00658

Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	1.26E-01	2.25E-01	2.25E-01
+	NB-95M	235.69		25.00	-9.47E+00	5.04E+01	5.04E+01
+	ZR-95	724.18		43.70	8.34E-02	2.79E-01	3.70E-01
		756.72		55.30	1.30E-02		2.79E-01
+	MO-99	181.06		6.20	-3.80E+02	4.69E+02	6.55E+02
		739.58		12.80	-4.78E+01		4.69E+02
		778.00		4.50	-1.98E+02		1.19E+03
+	RU-103	497.08		89.00	3.87E-02	1.63E-01	1.63E-01
+	RU-106	621.84		9.80	1.08E-01	1.07E+00	1.07E+00
+	AG-108M	433.93		89.90	-4.84E-02	8.95E-02	8.95E-02
		614.37		90.40	3.40E-02		1.35E-01
		722.95		90.50	-1.33E-02		1.31E-01
+	CD-109	88.03		3.72	6.78E-02	1.79E+00	1.79E+00
+	AG-110M	657.75		93.14	-5.76E-02	1.22E-01	1.22E-01
		677.61		10.53	-2.91E-01		1.06E+00
		706.67		16.46	-2.03E-01		7.37E-01
		763.93		21.98	2.36E-01		6.49E-01
		884.67		71.63	4.65E-02		2.01E-01
		1384.27		23.94	-2.99E-01		5.30E-01
+	CD-113M	263.70		0.02	-2.39E+02	2.66E+02	2.66E+02
+	SN-113	255.12		1.93	2.69E+00	1.49E-01	4.52E+00
		391.69		64.90	2.26E-02		1.49E-01
+	TE123M	159.00	*	84.10	4.69E-02	8.94E-02	8.94E-02
+	SB-124	602.71		97.87	-1.90E-02	1.44E-01	1.44E-01
		645.85		7.26	-8.26E-01		1.77E+00
		722.78		11.10	-5.17E-01		1.36E+00
		1691.02		49.00	1.69E-01		3.43E-01
+	I-125	35.49		6.49	3.47E-01	7.44E-01	7.44E-01
+	SB-125	176.33		6.89	-1.97E-01	3.08E-01	1.00E+00
		427.89		29.33	-6.45E-02		3.08E-01
		463.38		10.35	1.08E+00		1.09E+00
		600.56		17.80	-5.24E-02		6.28E-01
		635.90		11.32	3.49E-01		8.81E-01
+	SB-126	414.70		83.30	-8.35E-02	4.28E-01	4.28E-01
		666.33		99.60	1.50E-01		4.60E-01
		695.00		99.60	1.30E-01		5.07E-01
		720.50		53.80	-1.85E-02		8.96E-01
+	SN-126	87.57		37.00	6.55E-03	1.73E-01	1.73E-01
+	SB-127	473.00		25.00	-6.33E+00	2.92E+01	3.09E+01
		685.20		35.70	-6.90E+00		2.92E+01
		783.80		14.70	-2.15E+00		6.51E+01
+	I-129	29.78		57.00	7.64E-03	6.06E-02	6.06E-02
		33.60		13.20	-8.44E-02		2.58E-01
		39.58		7.52	-3.39E-01		4.88E-01
+	I-131	284.30		6.05	1.60E+00	9.22E-01	1.16E+01
		364.48		81.20	2.75E-01		9.22E-01
		636.97		7.26	2.30E+00		1.15E+01
		722.89		1.80	-2.08E+01		5.48E+01

Analysis Report for 1507182-11

DUPLICATE 4

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	3.17E+01	1.81E+01	6.74E+01
			228.16	88.00	4.07E+00		1.81E+01
+		BA-133	81.00	33.00	-1.09E-01	1.97E-01	2.01E-01
			302.84	17.80	-8.30E-03		4.54E-01
			356.01	60.00	-2.53E-02		1.97E-01
+		I-133	529.87	86.30	1.80E+06	5.98E+07	5.98E+07
+		XE-133	81.00	38.00	-2.59E+00	4.79E+00	4.79E+00
+		CS-134	563.23	8.38	-3.35E-01	1.36E-01	1.21E+00
			569.32	15.43	2.48E-01		6.86E-01
			604.70	97.60	-1.09E-02		1.36E-01
			795.84	85.40	3.44E-02		1.57E-01
			801.93	8.73	-2.61E-01		1.37E+00
+		CS-135	268.24	16.00	-2.77E-02	4.73E-01	4.73E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	-5.57E-01	3.99E-01	3.25E+00
			163.89	4.61	-7.15E-01		5.57E+00
			176.55	13.56	-3.69E-01		1.88E+00
			273.65	12.66	3.61E-01		2.51E+00
			340.57	48.50	4.60E-01		7.36E-01
			818.50	99.70	-2.15E-01		3.99E-01
			1048.07	79.60	6.47E-02		6.95E-01
			1235.34	19.70	1.82E+00		3.78E+00
+		CS-137	661.65	85.12	-2.53E-02	1.24E-01	1.24E-01
+		LA-138	788.74	34.00	-5.35E-02	1.66E-01	3.49E-01
			1435.80	66.00	-3.71E-02		1.66E-01
+		CE-139	165.85	80.35	-7.79E-03	9.44E-02	9.44E-02
+		BA-140	162.64	6.70	-3.14E-01	1.59E+00	3.97E+00
			304.84	4.50	-2.10E-01		6.91E+00
			423.70	3.20	4.40E+00		1.16E+01
			437.55	2.00	7.80E+00		1.67E+01
			537.32	25.00	-3.92E-02		1.59E+00
+		LA-140	328.77	20.50	7.09E-01	4.68E-01	1.53E+00
			487.03	45.50	-1.41E-01		7.37E-01
			815.85	23.50	-3.46E-01		1.85E+00
			1596.49	95.49	8.05E-02		4.68E-01
+		CE-141	145.44	48.40	2.83E-02	2.36E-01	2.36E-01
+		CE-143	57.36	11.80	-6.49E+04	7.23E+04	1.21E+05
			293.26	42.00	8.42E+04		7.23E+04
			664.55	5.20	-2.98E+04		6.50E+05
+		CE-144	133.54	10.80	-3.33E-01	6.40E-01	6.40E-01
+		PM-144	476.78	42.00	4.27E-02	1.13E-01	2.20E-01
			618.01	98.60	4.10E-02		1.13E-01
			696.49	99.49	1.43E-02		1.28E-01
+		PM-145	36.85	21.70	1.62E-02	9.12E-02	1.67E-01
			37.36	39.70	-6.30E-03		9.12E-02
			42.30	15.10	1.43E-01		2.63E-01
			72.40	2.31	2.86E-01		2.89E+00

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Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90	39.94	1.72E-02	2.41E-01	2.41E-01
		735.90	14.01	-3.71E-01		7.45E-01
		747.13	13.10	-1.68E-01		8.38E-01
+	ND-147	91.11	28.90	1.57E-01	1.15E+00	1.15E+00
		531.02	13.10	1.31E-01		3.72E+00
+	PM-149	285.90	3.10	7.85E+02	6.78E+03	6.78E+03
+	EU-152	121.78	20.50	-2.61E-01	2.92E-01	2.92E-01
		244.69	5.40	1.97E-01		1.65E+00
		344.27	19.13	-1.05E+00		4.42E-01
		778.89	9.20	-1.75E-01		1.05E+00
		964.01	10.40	-9.23E-02		1.28E+00
		1085.78	7.22	6.67E-01		1.88E+00
		1112.02	9.60	-2.58E-01		1.61E+00
		1407.95	14.94	1.15E-01		7.22E-01
+	GD-153	97.43	31.30	-3.89E-03	1.93E-01	1.93E-01
		103.18	22.20	2.64E-02		2.61E-01
+	EU-154	123.07	40.50	-8.95E-02	1.51E-01	1.51E-01
		723.30	19.70	-6.14E-02		6.07E-01
		873.19	11.50	4.25E-01		1.13E+00
		996.32	10.30	-6.08E-01		1.29E+00
		1004.76	17.90	6.72E-02		7.96E-01
		1274.45	35.50	-8.71E-02		3.76E-01
+	EU-155	86.50	30.90	3.48E-02	2.03E-01	2.03E-01
		105.30	20.70	1.54E-02		2.69E-01
+	EU-156	811.77	10.40	1.67E+00	3.65E+00	3.65E+00
		1153.47	7.20	-1.27E+00		6.61E+00
		1230.71	8.90	-1.54E+00		6.20E+00
+	HO-166M	184.41	72.60	6.27E-02	1.10E-01	1.10E-01
		280.45	29.60	1.36E-01		2.82E-01
		410.94	11.10	1.95E-01		8.27E-01
		711.69	54.10	-4.91E-02		2.07E-01
+	TM-171	66.72	0.14	2.00E+00	4.10E+01	4.10E+01
+	HF-172	81.75	4.52	-1.12E+00	5.81E-01	1.40E+00
		125.81	11.30	1.30E-01		5.81E-01
+	LU-172	181.53	20.60	2.79E-01	2.73E+00	4.96E+00
		810.06	16.63	4.31E+00		9.61E+00
		912.12	15.25	4.71E+00		1.31E+01
		1093.66	62.50	-5.25E-01		2.73E+00
+	LU-173	100.72	5.24	2.15E-02	3.87E-01	1.04E+00
		272.11	21.20	-1.17E-02		3.87E-01
+	HF-175	343.40	84.00	-1.17E-01	1.33E-01	1.33E-01
+	LU-176	88.34	13.30	4.41E-02	8.41E-02	4.97E-01
		201.83	86.00	-1.55E-02		8.71E-02
		306.78	94.00	-1.98E-02		8.41E-02
+	TA-182	67.75	41.20	7.78E-03	1.59E-01	1.59E-01
		1121.30	34.90	1.08E-01		5.67E-01
		1189.05	16.23	-1.90E-01		1.18E+00
		1221.41	26.98	1.99E-01		7.94E-01
		1231.02	11.44	-4.45E-01		1.79E+00

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Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	1.50E-02	2.48E-01	3.46E-01
		468.07		48.10	4.52E-04		2.48E-01
+	HG-203	279.19		77.30	2.48E-02	1.55E-01	1.55E-01
+	BI-207	569.67		97.72	3.84E-02	1.06E-01	1.06E-01
		1063.62		74.90	-1.25E-02		1.82E-01
+	TL-208	583.14		30.22	6.02E-01	4.56E-01	4.56E-01
		860.37		4.48	9.33E-01		2.76E+00
		2614.66		35.85	0.00E+00		5.79E-01
+	BI-210M	262.00		45.00	-7.75E-03	1.45E-01	1.45E-01
		300.00		23.00	2.48E-02		4.03E-01
+	PB-210	46.50		4.25	3.74E-01	9.79E-01	9.79E-01
+	PB-211	404.84	*	2.90	1.57E+00	2.66E+00	2.66E+00
		831.96		2.90	-1.59E+00		3.97E+00
+	BI-212	727.17		11.80	1.47E-01	9.86E-01	9.86E-01
		1620.62		2.75	-1.52E-01		4.41E+00
+	PB-212	238.63	*	44.60	5.51E-01	2.60E-01	2.60E-01
		300.09		3.41	1.67E-01		2.72E+00
+	BI-214	609.31	*	46.30	4.89E-01	2.27E-01	2.79E-01
		1120.29		15.10	-1.41E-01		1.07E+00
		1764.49	*	15.80	6.09E-01		2.27E-01
		2204.22		4.98	-6.55E-01		2.83E+00
+	PB-214	295.21	*	19.19	6.75E-01	3.78E-01	5.38E-01
		351.92	*	37.19	4.94E-01		3.78E-01
+	RN-219	401.80		6.50	3.56E-02	1.37E+00	1.37E+00
+	RA-223	323.87		3.88	-5.88E-01	2.03E+00	2.03E+00
+	RA-224	240.98		3.95	6.74E+00	2.87E+00	2.87E+00
+	RA-225	40.00		31.00	-2.67E-01	3.84E-01	3.84E-01
+	RA-226	186.21		3.28	3.01E+00	2.48E+00	2.48E+00
+	TH-227	50.10		8.40	2.38E-01	5.06E-01	5.06E-01
		236.00		11.50	-1.67E-01		8.86E-01
		256.20		6.30	1.89E-01		1.12E+00
+	AC-228	338.32	*	11.40	7.83E-01	5.88E-01	1.23E+00
		911.07	*	27.70	6.53E-01		5.88E-01
		969.11	*	16.60	3.86E-01		8.37E-01
+	TH-230	48.44		16.90	1.67E-01	2.49E-01	2.49E-01
		62.85		4.60	4.86E-01		1.16E+00
		67.67		0.37	7.44E-01		1.52E+01
+	PA-231	283.67		1.60	-3.80E-01	3.49E+00	4.94E+00
		302.67		2.30	-6.39E-02		3.49E+00
+	TH-231	25.64		14.70	-1.75E-01	2.32E-01	2.32E-01
		84.21		6.40	-7.29E-01		9.26E-01
+	PA-233	311.98		38.60	5.73E-02	4.05E-01	4.05E-01
+	PA-234	131.20		20.40	2.16E-01	3.30E-01	3.30E-01
		733.99		8.80	-1.16E+00		1.11E+00
		946.00		12.00	-4.30E-01		1.03E+00
+	PA-234M	1001.03		0.92	3.42E+00	1.57E+01	1.57E+01
+	TH-234	63.29	*	3.80	7.91E-01	1.50E+00	1.50E+00

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Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	3.80E-01	6.51E-01	6.51E-01
		163.35	4.70	-1.87E-01		1.45E+00
		205.31	4.70	2.70E-01		1.66E+00
+	NP-237	86.50	12.60	8.46E-02	4.93E-01	4.93E-01
+	NP-239	106.10	22.70	2.25E+01	3.94E+02	3.94E+02
		228.18	10.70	1.02E+02		1.13E+03
		277.60	14.10	-2.08E+01		9.29E+02
+	AM-241	59.54	35.90	-8.99E-04	1.43E-01	1.43E-01
+	AM-243	74.67	66.00	2.65E-01	1.07E-01	1.07E-01
+	CM-243	209.75	3.29	5.98E-02	5.81E-01	2.35E+00
		228.14	10.60	1.63E-01		7.23E-01
		277.60	14.00	-1.30E-02		5.81E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.17E+00	1.17E+00	3.69E-01	5.47E-01
	NA-22	1274.54		99.94	1.35E-01	1.35E-01	-3.13E-02	5.98E-02
	NA-24	1368.53		99.99	1.57E+11	9.32E+10	5.14E+10	6.84E+10
		2754.09		99.86	9.32E+10		1.27E+10	2.94E+10
	AL-26	1808.65		99.76	1.15E-01	1.15E-01	1.38E-02	4.71E-02
+	K-40	1460.81	*	10.67	1.64E+00	1.64E+00	1.70E+01	7.40E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.95E-02	5.95E-02	2.92E-03	2.91E-02
		78.34		96.00	7.25E-02		-1.08E-02	3.55E-02
	SC-46	889.25		99.98	1.49E-01	1.49E-01	-1.42E-02	6.80E-02

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Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	1.98E-01	1.49E-01	-2.62E-02	9.07E-02
	V-48	983.52		99.98	3.54E-01	3.54E-01	-1.46E-02	1.59E-01
		1312.10		97.50	4.33E-01		4.25E-02	1.93E-01
	CR-51	320.08		9.83	1.51E+00	1.51E+00	-1.15E-01	7.16E-01
	MN-54	834.83		99.97	1.24E-01	1.24E-01	-2.45E-02	5.65E-02
	CO-56	846.75		99.96	1.65E-01	1.65E-01	2.72E-02	7.62E-02
		1037.75		14.03	1.22E+00		9.73E-02	5.53E-01
		1238.25		67.00	3.71E-01		7.91E-02	1.72E-01
		1771.40		15.51	7.91E-01		-5.03E-01	3.14E-01
		2598.48		16.90	1.99E-01		0.00E+00	0.00E+00
	CO-57	122.06		85.51	7.45E-02	7.45E-02	-6.65E-02	3.61E-02
		136.48		10.60	6.71E-01		1.44E-01	3.26E-01
	CO-58	810.76		99.40	1.53E-01	1.53E-01	6.88E-02	7.03E-02
	FE-59	1099.22		56.50	3.46E-01	3.46E-01	5.05E-02	1.55E-01
		1291.56		43.20	5.58E-01		2.20E-01	2.53E-01
	CO-60	1173.22		100.00	1.84E-01	1.36E-01	5.49E-03	8.50E-02
		1332.49		100.00	1.36E-01		-1.81E-02	6.01E-02
	ZN-65	1115.52		50.75	3.35E-01	3.35E-01	-1.53E-01	1.53E-01
+	GA-67	93.31	*	35.70	5.12E+01	5.12E+01	3.23E+01	2.52E+01
		208.95		2.24	7.14E+02		9.75E+01	3.44E+02
		300.22		16.00	1.10E+02		3.02E+00	5.27E+01
	SE-75	121.11		16.70	4.26E-01	1.21E-01	-4.26E-02	2.07E-01
		136.00		59.20	1.28E-01		-2.13E-02	6.21E-02
		264.65		59.80	1.21E-01		-7.16E-02	5.70E-02
		279.53		25.20	3.78E-01		6.07E-02	1.81E-01
		400.65		11.40	8.64E-01		-4.94E-02	4.07E-01
	RB-82	776.52		13.00	1.51E+00	1.51E+00	-9.50E-02	6.81E-01
	RB-83	520.41		46.00	2.54E-01	2.54E-01	1.62E-02	1.18E-01
		529.64		30.30	4.00E-01		1.20E-02	1.87E-01
		552.65		16.40	7.86E-01		1.45E-01	3.68E-01
	KR-85	513.99		0.43	2.86E+01	2.86E+01	2.58E+01	1.36E+01
	SR-85	513.99		99.27	1.63E-01	1.63E-01	1.47E-01	7.73E-02
	Y-88	898.02		93.40	1.52E-01	1.45E-01	2.98E-02	6.93E-02
		1836.01		99.38	1.45E-01		7.32E-02	6.02E-02
	NB-93M	16.57		9.43	3.37E-01	3.37E-01	7.21E-01	1.63E-01
	NB-94	702.63		100.00	1.19E-01	1.19E-01	-7.71E-03	5.50E-02
		871.10		100.00	1.24E-01		1.38E-02	5.64E-02
	NB-95	765.79		99.81	2.25E-01	2.25E-01	1.26E-01	1.05E-01
	NB-95M	235.69		25.00	5.04E+01	5.04E+01	-9.47E+00	2.44E+01
	ZR-95	724.18		43.70	3.70E-01	2.79E-01	8.34E-02	1.72E-01
		756.72		55.30	2.79E-01		1.30E-02	1.28E-01
	MO-99	181.06		6.20	6.55E+02	4.69E+02	-3.80E+02	3.16E+02
		739.58		12.80	4.69E+02		-4.78E+01	2.15E+02
		778.00		4.50	1.19E+03		-1.98E+02	5.37E+02
	RU-103	497.08		89.00	1.63E-01	1.63E-01	3.87E-02	7.60E-02
	RU-106	621.84		9.80	1.07E+00	1.07E+00	1.08E-01	4.92E-01
	AG-108M	433.93		89.90	8.95E-02	8.95E-02	-4.84E-02	4.17E-02
		614.37		90.40	1.35E-01		3.40E-02	6.31E-02
		722.95		90.50	1.31E-01		-1.33E-02	6.08E-02
	CD-109	88.03		3.72	1.79E+00	1.79E+00	6.78E-02	8.75E-01
	AG-110M	657.75		93.14	1.22E-01	1.22E-01	-5.76E-02	5.66E-02
		677.61		10.53	1.06E+00		-2.91E-01	4.89E-01
		706.67		16.46	7.37E-01		-2.03E-01	3.40E-01

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Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	6.49E-01	1.22E-01	2.36E-01	3.02E-01
		884.67		71.63	2.01E-01		4.65E-02	9.23E-02
		1384.27		23.94	5.30E-01		-2.99E-01	2.28E-01
	CD-113M	263.70		0.02	2.66E+02	2.66E+02	-2.39E+02	1.26E+02
	SN-113	255.12		1.93	4.52E+00	1.49E-01	2.69E+00	2.16E+00
		391.69		64.90	1.49E-01		2.26E-02	7.03E-02
+	TE123M	159.00	*	84.10	8.94E-02	8.94E-02	4.69E-02	4.32E-02
	SB-124	602.71		97.87	1.44E-01	1.44E-01	-1.90E-02	6.68E-02
		645.85		7.26	1.77E+00		-8.26E-01	8.13E-01
		722.78		11.10	1.36E+00		-5.17E-01	6.29E-01
		1691.02		49.00	3.43E-01		1.69E-01	1.45E-01
	I-125	35.49		6.49	7.44E-01	7.44E-01	3.47E-01	3.62E-01
	SB-125	176.33		6.89	1.00E+00	3.08E-01	-1.97E-01	4.84E-01
		427.89		29.33	3.08E-01		-6.45E-02	1.45E-01
		463.38		10.35	1.09E+00		1.08E+00	5.17E-01
		600.56		17.80	6.28E-01		-5.24E-02	2.93E-01
		635.90		11.32	8.81E-01		3.49E-01	4.05E-01
	SB-126	414.70		83.30	4.28E-01	4.28E-01	-8.35E-02	2.01E-01
		666.33		99.60	4.60E-01		1.50E-01	2.13E-01
		695.00		99.60	5.07E-01		1.30E-01	2.36E-01
		720.50		53.80	8.96E-01		-1.85E-02	4.14E-01
	SN-126	87.57		37.00	1.73E-01	1.73E-01	6.55E-03	8.44E-02
	SB-127	473.00		25.00	3.09E+01	2.92E+01	-6.33E+00	1.44E+01
		685.20		35.70	2.92E+01		-6.90E+00	1.35E+01
		783.80		14.70	6.51E+01		-2.15E+00	2.96E+01
	I-129	29.78		57.00	6.06E-02	6.06E-02	7.64E-03	2.95E-02
		33.60		13.20	2.58E-01		-8.44E-02	1.25E-01
		39.58		7.52	4.88E-01		-3.39E-01	2.37E-01
	I-131	284.30		6.05	1.16E+01	9.22E-01	1.60E+00	5.55E+00
		364.48		81.20	9.22E-01		2.75E-01	4.37E-01
		636.97		7.26	1.15E+01		2.30E+00	5.29E+00
		722.89		1.80	5.48E+01		-2.08E+01	2.53E+01
	TE-132	49.72		13.10	6.74E+01	1.81E+01	3.17E+01	3.28E+01
		228.16		88.00	1.81E+01		4.07E+00	8.70E+00
	BA-133	81.00		33.00	2.01E-01	1.97E-01	-1.09E-01	9.82E-02
		302.84		17.80	4.54E-01		-8.30E-03	2.16E-01
		356.01		60.00	1.97E-01		-2.53E-02	9.46E-02
	I-133	529.87		86.30	5.98E+07	5.98E+07	1.80E+06	2.79E+07
	XE-133	81.00		38.00	4.79E+00	4.79E+00	-2.59E+00	2.34E+00
	CS-134	563.23		8.38	1.21E+00	1.36E-01	-3.35E-01	5.64E-01
		569.32		15.43	6.86E-01		2.48E-01	3.20E-01
		604.70		97.60	1.36E-01		-1.09E-02	6.43E-02
		795.84		85.40	1.57E-01		3.44E-02	7.24E-02
		801.93		8.73	1.37E+00		-2.61E-01	6.26E-01
	CS-135	268.24		16.00	4.73E-01	4.73E-01	-2.77E-02	2.26E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	3.25E+00	3.99E-01	-5.57E-01	1.57E+00
		163.89		4.61	5.57E+00		-7.15E-01	2.69E+00
		176.55		13.56	1.88E+00		-3.69E-01	9.08E-01
		273.65		12.66	2.51E+00		3.61E-01	1.20E+00
		340.57		48.50	7.36E-01		4.60E-01	3.51E-01

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Analysis Report for 1507182-11

DUPLICATE 4

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	3.99E-01	3.99E-01	-2.15E-01	1.80E-01
	1048.07	79.60	6.95E-01		6.47E-02	3.18E-01
	1235.34	19.70	3.78E+00		1.82E+00	1.75E+00
CS-137	661.65	85.12	1.24E-01	1.24E-01	-2.53E-02	5.70E-02
LA-138	788.74	34.00	3.49E-01	1.66E-01	-5.35E-02	1.60E-01
	1435.80	66.00	1.66E-01		-3.71E-02	7.00E-02
CE-139	165.85	80.35	9.44E-02	9.44E-02	-7.79E-03	4.56E-02
BA-140	162.64	6.70	3.97E+00	1.59E+00	-3.14E-01	1.92E+00
	304.84	4.50	6.91E+00		-2.10E-01	3.29E+00
	423.70	3.20	1.16E+01		4.40E+00	5.49E+00
	437.55	2.00	1.67E+01		7.80E+00	7.80E+00
	537.32	25.00	1.59E+00		-3.92E-02	7.42E-01
LA-140	328.77	20.50	1.53E+00	4.68E-01	7.09E-01	7.25E-01
	487.03	45.50	7.37E-01		-1.41E-01	3.43E-01
	815.85	23.50	1.85E+00		-3.46E-01	8.42E-01
	1596.49	95.49	4.68E-01		8.05E-02	1.96E-01
CE-141	145.44	48.40	2.36E-01	2.36E-01	2.83E-02	1.14E-01
CE-143	57.36	11.80	1.21E+05	7.23E+04	-6.49E+04	5.88E+04
	293.26	42.00	7.23E+04		8.42E+04	3.48E+04
	664.55	5.20	6.50E+05		-2.98E+04	3.01E+05
CE-144	133.54	10.80	6.40E-01	6.40E-01	-3.33E-01	3.11E-01
PM-144	476.78	42.00	2.20E-01	1.13E-01	4.27E-02	1.03E-01
	618.01	98.60	1.13E-01		4.10E-02	5.25E-02
	696.49	99.49	1.28E-01		1.43E-02	5.95E-02
PM-145	36.85	21.70	1.67E-01	9.12E-02	1.62E-02	8.10E-02
	37.36	39.70	9.12E-02		-6.30E-03	4.43E-02
	42.30	15.10	2.63E-01		1.43E-01	1.28E-01
	72.40	2.31	2.89E+00		2.86E-01	1.42E+00
PM-146	453.90	39.94	2.41E-01	2.41E-01	1.72E-02	1.14E-01
	735.90	14.01	7.45E-01		-3.71E-01	3.40E-01
	747.13	13.10	8.38E-01		-1.68E-01	3.84E-01
ND-147	91.11	28.90	1.15E+00	1.15E+00	1.57E-01	5.60E-01
	531.02	13.10	3.72E+00		1.31E-01	1.74E+00
PM-149	285.90	3.10	6.78E+03	6.78E+03	7.85E+02	3.24E+03
EU-152	121.78	20.50	2.92E-01	2.92E-01	-2.61E-01	1.41E-01
	244.69	5.40	1.65E+00		1.97E-01	7.98E-01
	344.27	19.13	4.42E-01		-1.05E+00	2.10E-01
	778.89	9.20	1.05E+00		-1.75E-01	4.74E-01
	964.01	10.40	1.28E+00		-9.23E-02	5.85E-01
	1085.78	7.22	1.88E+00		6.67E-01	8.46E-01
	1112.02	9.60	1.61E+00		-2.58E-01	7.35E-01
	1407.95	14.94	7.22E-01		1.15E-01	3.05E-01
GD-153	97.43	31.30	1.93E-01	1.93E-01	-3.89E-03	9.39E-02
	103.18	22.20	2.61E-01		2.64E-02	1.26E-01
EU-154	123.07	40.50	1.51E-01	1.51E-01	-8.95E-02	7.31E-02
	723.30	19.70	6.07E-01		-6.14E-02	2.81E-01
	873.19	11.50	1.13E+00		4.25E-01	5.20E-01
	996.32	10.30	1.29E+00		-6.08E-01	5.84E-01
	1004.76	17.90	7.96E-01		6.72E-02	3.64E-01
	1274.45	35.50	3.76E-01		-8.71E-02	1.66E-01
EU-155	86.50	30.90	2.03E-01	2.03E-01	3.48E-02	9.92E-02
	105.30	20.70	2.69E-01		1.54E-02	1.31E-01
EU-156	811.77	10.40	3.65E+00	3.65E+00	1.67E+00	1.67E+00

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Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	6.61E+00	3.65E+00	-1.27E+00	3.00E+00
		1230.71		8.90	6.20E+00		-1.54E+00	2.84E+00
	HO-166M	184.41		72.60	1.10E-01	1.10E-01	6.27E-02	5.32E-02
		280.45		29.60	2.82E-01		1.36E-01	1.35E-01
		410.94		11.10	8.27E-01		1.95E-01	3.91E-01
		711.69		54.10	2.07E-01		-4.91E-02	9.52E-02
	TM-171	66.72		0.14	4.10E+01	4.10E+01	2.00E+00	2.00E+01
	HF-172	81.75		4.52	1.40E+00	5.81E-01	-1.12E+00	6.85E-01
		125.81		11.30	5.81E-01		1.30E-01	2.82E-01
	LU-172	181.53		20.60	4.96E+00	2.73E+00	2.79E-01	2.40E+00
		810.06		16.63	9.61E+00		4.31E+00	4.40E+00
		912.12		15.25	1.31E+01		4.71E+00	6.07E+00
		1093.66		62.50	2.73E+00		-5.25E-01	1.22E+00
	LU-173	100.72		5.24	1.04E+00	3.87E-01	2.15E-02	5.07E-01
		272.11		21.20	3.87E-01		-1.17E-02	1.85E-01
	HF-175	343.40		84.00	1.33E-01	1.33E-01	-1.17E-01	6.32E-02
	LU-176	88.34		13.30	4.97E-01	8.41E-02	4.41E-02	2.43E-01
		201.83		86.00	8.71E-02		-1.55E-02	4.20E-02
		306.78		94.00	8.41E-02		-1.98E-02	4.00E-02
	TA-182	67.75		41.20	1.59E-01	1.59E-01	7.78E-03	7.75E-02
		1121.30		34.90	5.67E-01		1.08E-01	2.61E-01
		1189.05		16.23	1.18E+00		-1.90E-01	5.37E-01
		1221.41		26.98	7.94E-01		1.99E-01	3.65E-01
		1231.02		11.44	1.79E+00		-4.45E-01	8.18E-01
	IR-192	308.46		29.68	3.46E-01	2.48E-01	1.50E-02	1.65E-01
		468.07		48.10	2.48E-01		4.52E-04	1.16E-01
	HG-203	279.19		77.30	1.55E-01	1.55E-01	2.48E-02	7.40E-02
	BI-207	569.67		97.72	1.06E-01	1.06E-01	3.84E-02	4.94E-02
		1063.62		74.90	1.82E-01		-1.25E-02	8.26E-02
	TL-208	583.14		30.22	4.56E-01	4.56E-01	6.02E-01	2.16E-01
		860.37		4.48	2.76E+00		9.33E-01	1.26E+00
		2614.66		35.85	5.79E-01		0.00E+00	2.52E-01
	BI-210M	262.00		45.00	1.45E-01	1.45E-01	-7.75E-03	6.89E-02
		300.00		23.00	4.03E-01		2.48E-02	1.93E-01
	PB-210	46.50		4.25	9.79E-01	9.79E-01	3.74E-01	4.76E-01
+	PB-211	404.84	*	2.90	2.66E+00	2.66E+00	1.57E+00	1.24E+00
		831.96		2.90	3.97E+00		-1.59E+00	1.81E+00
	BI-212	727.17		11.80	9.86E-01	9.86E-01	1.47E-01	4.55E-01
		1620.62		2.75	4.41E+00		-1.52E-01	1.86E+00
+	PB-212	238.63	*	44.60	2.60E-01	2.60E-01	5.51E-01	1.27E-01
		300.09		3.41	2.72E+00		1.67E-01	1.30E+00
+	BI-214	609.31	*	46.30	2.79E-01	2.27E-01	4.89E-01	1.32E-01
		1120.29		15.10	1.07E+00		-1.41E-01	4.88E-01
		1764.49	*	15.80	2.27E-01		6.09E-01	4.92E-02
		2204.22		4.98	2.83E+00		-6.55E-01	1.18E+00
+	PB-214	295.21	*	19.19	5.38E-01	3.78E-01	6.75E-01	2.59E-01
		351.92	*	37.19	3.78E-01		4.94E-01	1.83E-01
	RN-219	401.80		6.50	1.37E+00	1.37E+00	3.56E-02	6.46E-01
	RA-223	323.87		3.88	2.03E+00	2.03E+00	-5.88E-01	9.62E-01
	RA-224	240.98		3.95	2.87E+00	2.87E+00	6.74E+00	1.40E+00
	RA-225	40.00		31.00	3.84E-01	3.84E-01	-2.67E-01	1.87E-01
	RA-226	186.21		3.28	2.48E+00	2.48E+00	3.01E+00	1.20E+00
	TH-227	50.10		8.40	5.06E-01	5.06E-01	2.38E-01	2.46E-01

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Analysis Report for 1507182-11

DUPLICATE 4

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	TH-227	236.00		11.50	8.86E-01	5.06E-01	-1.67E-01	4.30E-01
		256.20		6.30	1.12E+00		1.89E-01	5.32E-01
+	AC-228	338.32	*	11.40	1.23E+00	5.88E-01	7.83E-01	5.95E-01
		911.07	*	27.70	5.88E-01		6.53E-01	2.74E-01
		969.11	*	16.60	8.37E-01		3.86E-01	3.83E-01
	TH-230	48.44		16.90	2.49E-01	2.49E-01	1.67E-01	1.21E-01
		62.85		4.60	1.16E+00		4.86E-01	5.66E-01
		67.67		0.37	1.52E+01		7.44E-01	7.40E+00
	PA-231	283.67		1.60	4.94E+00	3.49E+00	-3.80E-01	2.36E+00
		302.67		2.30	3.49E+00		-6.39E-02	1.66E+00
	TH-231	25.64		14.70	2.32E-01	2.32E-01	-1.75E-01	1.13E-01
		84.21		6.40	9.26E-01		-7.29E-01	4.52E-01
	PA-233	311.98		38.60	4.05E-01	4.05E-01	5.73E-02	1.93E-01
	PA-234	131.20		20.40	3.30E-01	3.30E-01	2.16E-01	1.60E-01
		733.99		8.80	1.11E+00		-1.16E+00	5.05E-01
		946.00		12.00	1.03E+00		-4.30E-01	4.67E-01
	PA-234M	1001.03		0.92	1.57E+01	1.57E+01	3.42E+00	7.20E+00
+	TH-234	63.29	*	3.80	1.50E+00	1.50E+00	7.91E-01	7.36E-01
	U-235	143.76		10.50	6.51E-01	6.51E-01	3.80E-01	3.16E-01
		163.35		4.70	1.45E+00		-1.87E-01	7.02E-01
		205.31		4.70	1.66E+00		2.70E-01	8.00E-01
	NP-237	86.50		12.60	4.93E-01	4.93E-01	8.46E-02	2.41E-01
	NP-239	106.10		22.70	3.94E+02	3.94E+02	2.25E+01	1.91E+02
		228.18		10.70	1.13E+03		1.02E+02	5.42E+02
		277.60		14.10	9.29E+02		-2.08E+01	4.44E+02
	AM-241	59.54		35.90	1.43E-01	1.43E-01	-8.99E-04	6.99E-02
	AM-243	74.67		66.00	1.07E-01	1.07E-01	2.65E-01	5.24E-02
	CM-243	209.75		3.29	2.35E+00	5.81E-01	5.98E-02	1.13E+00
		228.14		10.60	7.23E-01		1.63E-01	3.48E-01
		277.60		14.00	5.81E-01		-1.30E-02	2.78E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

00668

Analysis Report for 1507182-11

DUPLICATE 4

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: DUPLICATE 4

Elapsed Live time: 3600
Elapsed Real Time: 3612

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	23	74
17:	58	78	68	50	48	45	51	38
25:	62	42	38	41	32	35	44	49
33:	49	44	30	47	33	42	62	35
41:	47	45	48	42	52	66	52	40
49:	52	56	47	44	42	28	48	58
57:	57	49	59	54	74	71	107	70
65:	60	49	57	69	71	64	65	69
73:	91	115	115	152	134	80	37	60
81:	63	59	58	62	58	65	80	65
89:	66	67	85	94	74	57	50	44
97:	39	31	32	44	38	45	35	37
105:	36	49	30	49	37	33	47	45
113:	45	44	31	57	41	34	43	34
121:	35	45	38	41	31	49	50	48
129:	41	44	34	48	35	45	41	38
137:	32	29	52	45	39	31	42	45
145:	32	38	31	37	38	27	33	33
153:	35	25	30	29	37	31	41	41
161:	36	23	31	33	28	28	29	38
169:	25	30	33	26	27	31	28	26
177:	42	26	26	22	32	33	26	47
185:	52	47	30	38	22	40	29	17
193:	27	28	31	30	17	33	33	23
201:	26	29	35	25	26	28	26	31
209:	34	28	27	22	23	31	16	28
217:	33	17	15	30	20	29	23	25
225:	23	26	21	27	26	21	16	14
233:	22	17	20	29	62	101	73	52
241:	49	21	20	19	27	25	16	22
249:	20	24	17	18	17	17	19	13
257:	19	19	8	11	11	10	11	13
265:	14	14	7	12	32	16	22	21
273:	13	20	19	20	21	22	10	19
281:	20	16	20	22	17	12	13	16
289:	17	9	20	18	22	38	44	37
297:	11	19	14	15	18	17	11	14
305:	13	15	16	13	16	13	16	18
313:	13	12	17	13	14	15	10	12
321:	8	18	11	16	14	9	16	14
329:	13	17	5	12	11	19	10	17
337:	28	21	23	17	11	12	17	8
345:	14	13	11	14	15	24	49	68
353:	25	13	11	16	16	11	10	16
361:	15	15	14	16	13	10	4	6

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369:	8	8	12	12	17	8	11	10

Sample Title: DUPLICATE 4

Channel								
377:	11	11	11	8	8	8	14	4
385:	8	15	8	6	13	10	9	11
393:	12	9	10	8	12	7	13	7
401:	8	5	16	12	16	13	5	9
409:	18	11	9	11	8	14	8	8
417:	10	8	12	7	13	16	13	7
425:	9	13	10	12	9	7	4	7
433:	8	13	6	9	3	9	8	8
441:	10	6	10	2	9	12	6	8
449:	7	8	6	11	9	11	14	8
457:	13	7	7	11	15	19	17	12
465:	14	11	8	5	7	3	11	8
473:	5	6	9	7	8	7	9	7
481:	8	4	6	4	8	11	2	10
489:	8	7	9	6	6	6	6	9
497:	11	5	4	11	10	7	2	8
505:	4	4	5	7	14	20	31	11
513:	12	8	10	6	4	6	14	6
521:	10	7	7	5	11	5	3	7
529:	9	10	6	10	7	12	7	6
537:	9	10	4	10	5	11	6	5
545:	3	8	9	10	7	7	7	7
553:	8	7	8	10	8	5	9	7
561:	10	1	5	6	6	10	6	6
569:	6	12	5	7	6	7	7	6
577:	8	7	7	7	3	20	34	18
585:	8	7	8	5	4	0	8	4
593:	9	6	5	11	5	6	9	3
601:	8	7	7	9	5	5	15	33
609:	36	27	9	4	2	8	8	6
617:	4	9	5	3	6	8	3	9
625:	2	3	4	3	3	4	4	3
633:	4	5	9	5	3	6	6	2
641:	4	5	4	5	3	4	2	7
649:	8	8	9	7	5	9	7	5
657:	2	5	6	7	4	4	11	6
665:	3	4	6	6	9	6	6	3
673:	3	3	6	7	5	2	7	8
681:	4	8	8	5	9	7	2	7
689:	3	9	9	5	7	9	5	6
697:	7	8	6	6	7	3	6	7
705:	6	6	7	5	8	1	5	4
713:	11	4	2	5	9	4	5	9
721:	4	8	5	3	3	6	9	9
729:	5	5	4	3	3	3	6	6
737:	1	2	9	8	3	5	0	5
745:	6	7	3	4	5	6	4	8
753:	5	2	5	5	3	7	5	6
761:	11	5	11	3	6	8	5	4
769:	9	5	1	4	4	4	4	4
777:	5	1	3	1	3	3	2	3
785:	7	3	8	7	4	2	4	5
793:	6	10	6	8	2	5	6	5

801:	5	6	4	3	4	2	4	5

Sample Title: DUPLICATE 4

Channel								
809:	6	5	7	7	2	3	3	1
817:	3	5	4	5	5	2	6	3
825:	6	5	2	4	3	3	4	6
833:	1	3	7	5	6	2	11	5
841:	3	8	8	3	5	3	3	4
849:	7	6	2	5	3	6	1	8
857:	3	2	1	10	4	5	2	4
865:	2	6	1	4	7	3	2	5
873:	7	4	5	4	5	2	0	7
881:	5	4	3	4	2	3	9	7
889:	4	4	1	2	3	2	4	7
897:	3	5	2	3	6	2	3	4
905:	5	5	3	2	1	4	19	11
913:	5	4	5	1	2	6	5	2
921:	6	6	2	1	2	2	4	1
929:	4	4	5	2	5	4	8	1
937:	2	2	4	4	5	5	2	1
945:	9	3	2	3	2	5	5	9
953:	2	6	0	5	4	1	7	4
961:	4	2	7	4	2	4	4	5
969:	10	4	9	3	2	5	6	3
977:	4	4	3	2	3	4	3	2
985:	5	1	4	3	2	3	6	5
993:	2	3	4	4	8	2	3	2
1001:	8	9	2	4	2	4	4	3
1009:	4	3	4	4	7	3	6	5
1017:	7	8	6	4	3	9	6	5
1025:	2	2	3	6	4	9	3	3
1033:	3	3	5	3	2	3	4	4
1041:	6	2	2	5	3	4	6	4
1049:	3	5	5	3	4	5	4	5
1057:	4	3	2	4	0	4	3	9
1065:	2	3	4	4	2	4	4	5
1073:	2	3	1	4	3	2	4	3
1081:	2	2	7	2	1	1	3	4
1089:	5	4	1	1	2	3	4	3
1097:	2	2	5	3	2	2	4	3
1105:	5	1	5	1	10	3	5	2
1113:	8	2	5	1	8	2	6	6
1121:	8	7	2	0	6	12	7	4
1129:	6	6	3	5	4	5	6	2
1137:	5	2	2	4	4	5	3	4
1145:	4	6	3	6	1	0	3	3
1153:	4	6	4	8	4	2	1	4
1161:	3	1	5	2	0	4	5	3
1169:	6	11	3	6	4	5	4	3
1177:	6	3	6	9	6	4	3	7
1185:	5	8	5	3	1	2	5	3
1193:	5	2	4	8	1	4	7	3
1201:	4	7	4	4	6	8	1	3
1209:	7	7	5	4	5	3	4	7
1217:	7	5	5	6	8	3	2	6
1225:	3	6	4	1	3	6	7	4

1233:	2	9	4	4	5	8	9	5

Sample Title: DUPLICATE 4

Channel								
1241:	4	4	5	8	3	8	3	5
1249:	3	2	3	2	5	2	6	3
1257:	2	6	3	1	3	7	3	3
1265:	5	4	3	4	2	0	3	4
1273:	1	2	4	1	1	4	2	3
1281:	3	3	5	1	3	2	3	4
1289:	5	5	1	2	5	4	2	2
1297:	2	3	2	2	5	4	2	3
1305:	1	1	4	3	2	1	4	2
1313:	1	2	4	3	3	1	3	1
1321:	3	3	2	0	1	2	3	1
1329:	0	1	3	4	2	3	1	4
1337:	3	3	3	4	3	0	5	3
1345:	1	2	3	0	2	0	1	1
1353:	1	3	4	3	0	0	1	4
1361:	0	2	1	3	1	2	1	2
1369:	3	3	0	1	1	1	1	1
1377:	1	5	2	2	4	1	0	1
1385:	0	4	0	1	3	2	3	1
1393:	3	1	3	2	1	3	1	3
1401:	1	2	0	1	1	1	3	0
1409:	0	3	1	0	0	0	2	0
1417:	3	2	0	2	1	0	1	2
1425:	2	2	0	2	1	2	0	0
1433:	2	1	2	1	1	1	0	2
1441:	1	2	3	3	3	1	0	3
1449:	0	2	0	1	3	1	3	1
1457:	3	0	16	44	96	89	38	6
1465:	2	0	0	1	2	2	2	0
1473:	2	0	1	1	0	1	0	0
1481:	2	1	3	1	1	1	1	1
1489:	1	1	0	0	1	1	0	0
1497:	0	1	0	2	0	2	3	1
1505:	4	0	0	5	1	0	1	0
1513:	2	0	1	2	0	0	1	1
1521:	0	0	0	0	0	0	0	1
1529:	2	0	0	0	1	0	0	2
1537:	0	2	4	1	0	0	1	1
1545:	0	0	0	3	2	2	1	1
1553:	1	0	1	1	2	1	0	0
1561:	1	2	1	1	1	0	2	1
1569:	0	2	0	1	1	1	0	1
1577:	0	2	0	1	0	1	0	1
1585:	3	1	0	2	2	1	2	5
1593:	2	2	0	1	2	1	0	1
1601:	0	0	0	0	0	0	2	1
1609:	0	1	1	0	0	1	3	0
1617:	0	0	3	0	1	2	1	2
1625:	1	1	1	1	2	2	0	0
1633:	0	1	1	2	2	1	0	1
1641:	2	0	0	1	0	1	0	0
1649:	0	1	1	0	0	2	0	1
1657:	1	2	0	1	0	0	1	1

1665:	2	1	0	1	0	1	0	1

Sample Title: DUPLICATE 4

Channel								
1673:	0	2	1	0	0	0	1	5
1681:	3	0	1	0	1	0	0	1
1689:	0	3	2	1	2	1	0	0
1697:	0	0	1	1	0	0	0	1
1705:	0	0	0	1	0	0	1	0
1713:	1	0	1	0	0	1	1	1
1721:	1	1	1	1	0	0	0	0
1729:	1	0	2	0	1	0	0	0
1737:	0	0	0	0	0	0	1	2
1745:	0	1	0	0	0	0	0	0
1753:	1	1	0	0	0	0	0	0
1761:	1	0	1	2	4	1	3	1
1769:	0	0	0	0	0	0	0	0
1777:	1	0	0	0	0	1	0	0
1785:	1	1	0	0	0	0	0	0
1793:	3	1	0	1	1	0	0	0
1801:	0	1	1	1	0	0	1	1
1809:	2	1	0	0	1	0	0	0
1817:	1	1	0	2	1	1	0	0
1825:	0	0	0	0	0	0	0	0
1833:	0	1	1	1	2	1	1	1
1841:	0	0	0	0	1	0	2	0
1849:	0	0	0	1	0	0	0	0
1857:	0	0	0	1	1	1	1	0
1865:	1	1	1	0	0	0	0	0
1873:	1	0	0	1	0	2	1	0
1881:	0	0	0	1	1	0	0	0
1889:	0	0	0	1	0	0	0	2
1897:	1	0	0	0	2	0	2	2
1905:	0	0	1	2	1	0	0	0
1913:	0	0	0	0	0	1	1	0
1921:	0	0	0	0	1	1	0	0
1929:	2	0	2	0	1	3	0	0
1937:	2	3	0	0	0	1	0	0
1945:	1	0	0	0	0	0	1	0
1953:	0	0	0	0	0	1	0	0
1961:	1	0	1	1	0	0	1	2
1969:	0	0	0	2	0	0	1	0
1977:	0	1	0	0	0	1	1	0
1985:	0	1	2	0	1	0	0	0
1993:	1	0	4	1	1	0	0	1
2001:	1	0	1	0	0	1	0	0
2009:	0	0	0	0	0	0	0	0
2017:	0	1	1	0	1	1	0	1
2025:	0	0	0	0	1	1	0	0
2033:	0	0	0	0	1	0	0	0
2041:	1	0	0	0	1	0	1	0
2049:	1	1	0	1	0	0	0	0
2057:	1	0	0	0	0	0	0	1
2065:	1	1	0	0	0	0	0	0
2073:	0	0	1	1	0	0	0	1
2081:	1	0	1	0	0	0	2	0
2089:	0	0	0	2	1	0	0	0

2097:	1	0	0	0	1	0	0	0

Sample Title: DUPLICATE 4

Channel								
2105:	1	0	1	0	0	1	1	0
2113:	0	0	1	0	1	1	1	3
2121:	2	0	0	1	0	1	0	1
2129:	0	0	1	0	1	0	1	0
2137:	0	1	0	1	0	1	0	0
2145:	1	0	1	0	0	1	1	0
2153:	1	0	0	0	2	1	0	0
2161:	1	1	0	1	0	0	0	1
2169:	0	0	0	1	0	0	0	1
2177:	0	1	0	0	1	0	0	0
2185:	1	1	0	0	1	0	0	0
2193:	0	0	1	0	0	0	0	0
2201:	0	2	1	3	1	0	0	0
2209:	0	1	0	2	0	1	0	0
2217:	0	0	0	1	1	1	1	0
2225:	0	0	0	0	0	0	0	1
2233:	0	0	1	0	1	2	0	0
2241:	1	0	0	0	0	1	2	0
2249:	1	1	0	0	1	0	1	0
2257:	0	0	1	0	1	0	1	0
2265:	2	1	0	0	0	0	0	0
2273:	0	0	0	0	0	0	0	0
2281:	0	1	0	1	0	0	0	0
2289:	0	0	0	0	1	1	0	0
2297:	0	0	0	0	2	0	1	1
2305:	1	0	0	0	1	2	0	0
2313:	1	2	0	0	1	0	0	1
2321:	0	1	0	0	1	0	2	1
2329:	0	2	0	1	0	2	0	0
2337:	0	0	0	0	0	0	0	1
2345:	0	2	0	0	0	0	1	0
2353:	0	1	1	0	0	0	0	1
2361:	0	1	0	1	1	0	0	0
2369:	2	2	0	1	0	0	1	1
2377:	0	1	0	1	0	3	1	0
2385:	0	1	1	0	1	2	0	0
2393:	0	1	0	1	0	0	0	0
2401:	0	0	0	0	0	0	0	0
2409:	1	1	0	0	0	1	0	0
2417:	0	2	1	0	2	0	0	0
2425:	1	0	1	0	1	0	1	0
2433:	1	0	0	0	0	0	0	0
2441:	2	0	1	1	0	0	0	0
2449:	0	0	0	2	2	0	0	0
2457:	0	0	0	0	0	2	0	1
2465:	0	0	1	0	0	0	1	0
2473:	0	0	0	1	0	1	0	0
2481:	3	0	0	0	0	1	2	0
2489:	1	0	0	0	0	1	0	0
2497:	2	0	1	0	0	0	0	0
2505:	0	0	0	0	0	0	0	0
2513:	0	0	0	2	0	0	0	0
2521:	0	0	0	0	0	0	0	0

2529:	0	1	0	0	1	0	1	1

Sample Title: DUPLICATE 4

Channel								
2537:	0	0	0	0	0	0	0	1
2545:	0	1	0	1	0	0	0	0
2553:	0	1	2	1	1	1	0	0
2561:	0	0	0	1	0	0	0	0
2569:	0	0	0	0	1	0	0	1
2577:	1	0	0	1	0	0	0	0
2585:	1	0	0	0	0	1	0	0
2593:	0	0	0	0	0	0	0	0
2601:	0	0	0	0	2	0	1	0
2609:	0	0	0	0	0	1	4	3
2617:	5	1	1	0	0	0	1	2
2625:	0	0	0	0	0	1	0	0
2633:	1	0	1	0	0	0	0	0
2641:	0	0	0	1	0	1	1	0
2649:	0	0	0	1	1	0	0	0
2657:	0	0	1	1	0	1	0	0
2665:	0	0	1	0	0	0	0	1
2673:	0	0	0	0	0	0	0	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	0	0	0	1	0	0
2697:	0	0	0	0	1	1	0	0
2705:	0	1	0	1	0	0	0	0
2713:	1	0	0	0	0	0	0	0
2721:	0	0	1	1	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	1	0	0	0	0	0
2745:	0	0	0	0	0	0	0	1
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	1	0	0	0	0	0
2777:	0	0	0	0	0	1	0	0
2785:	0	0	1	0	0	0	0	0
2793:	0	1	1	0	0	0	0	0
2801:	1	0	0	0	0	0	1	0
2809:	0	1	0	0	0	0	0	0
2817:	0	0	0	2	0	0	0	0
2825:	1	0	0	1	0	0	0	0
2833:	0	0	0	1	0	0	0	0
2841:	0	0	0	0	0	0	1	0
2849:	0	0	0	0	0	0	0	2
2857:	0	0	0	0	0	0	0	0
2865:	0	0	1	0	1	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	2	0	0	1	0
2889:	0	1	0	1	0	0	0	0
2897:	1	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	1	1	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	1
2945:	0	0	0	0	0	1	1	0
2953:	1	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 4

Channel								
2969:	2	0	0	0	0	1	0	1
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	1	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	1	0	0	0	0	0	2
3025:	0	0	1	0	0	0	0	1
3033:	0	0	0	0	0	0	1	0
3041:	0	0	0	1	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	1
3065:	0	0	0	0	0	0	0	1
3073:	0	0	0	0	0	1	0	0
3081:	0	0	0	0	0	0	0	2
3089:	0	0	0	0	0	0	0	0
3097:	0	0	1	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	1	1	0	0	0
3121:	0	0	0	1	0	0	0	1
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	1	0	0	0	0	1	0
3153:	0	0	0	0	0	0	0	0
3161:	0	1	0	0	0	1	1	1
3169:	1	0	0	1	0	0	0	1
3177:	2	0	0	0	0	0	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	2
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	1	0	0
3241:	1	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	1
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	1	0	0	0	1
3329:	0	0	0	0	0	0	0	1
3337:	0	0	0	0	0	1	0	1
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	1
3361:	1	0	0	0	0	0	0	1
3369:	0	0	0	1	0	0	0	0
3377:	0	0	1	0	0	0	1	1
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 4

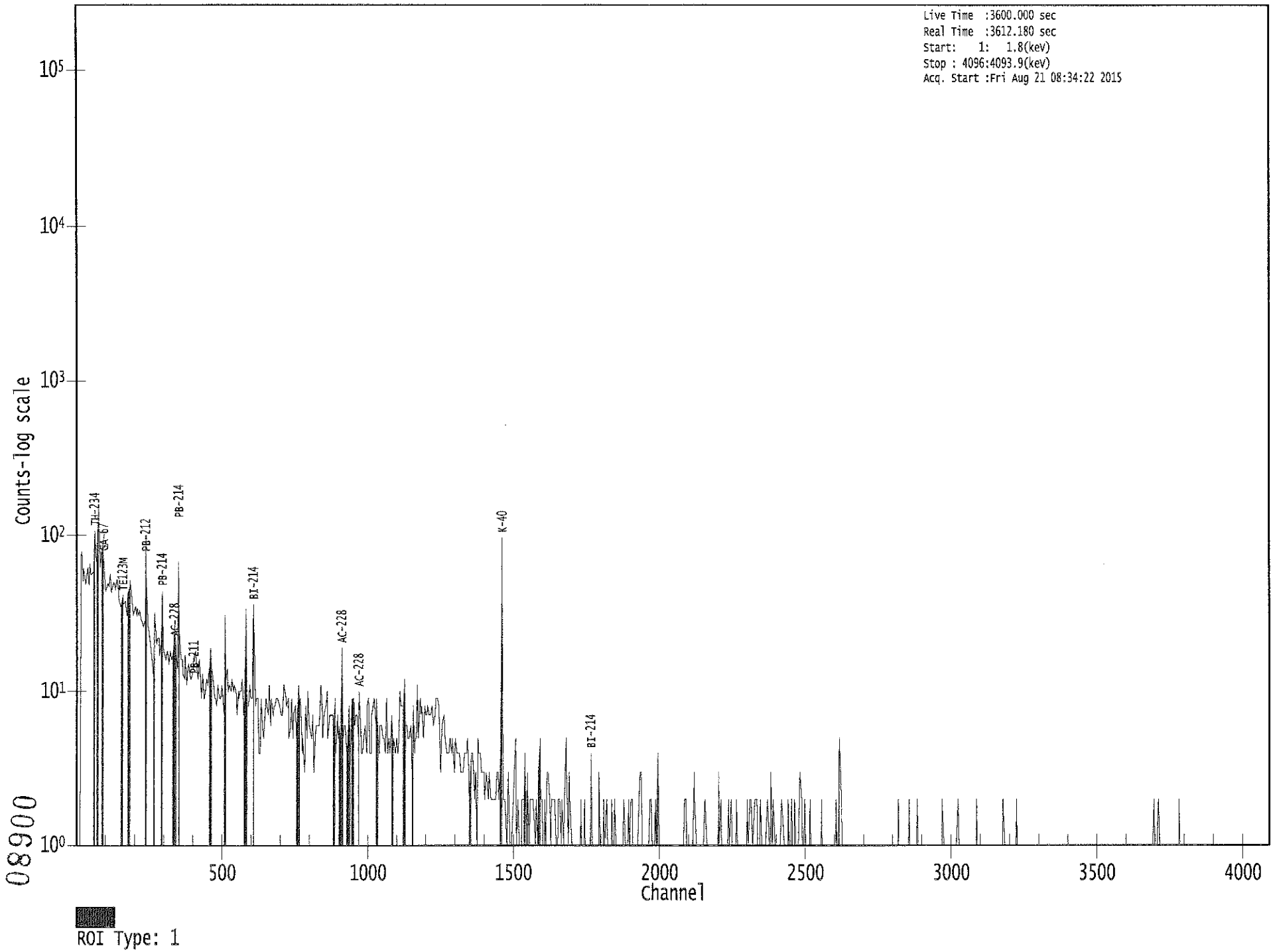
Channel								
3401:	0	0	0	0	1	1	1	0
3409:	0	0	0	0	0	1	0	0
3417:	0	0	0	0	0	1	0	0
3425:	0	0	0	1	0	0	0	1
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	1
3457:	0	0	0	0	0	1	0	0
3465:	0	0	0	0	0	0	1	0
3473:	0	1	0	0	0	0	0	0
3481:	0	1	1	0	0	0	0	0
3489:	0	0	0	1	1	0	0	0
3497:	0	1	0	0	0	0	0	0
3505:	0	1	0	0	0	0	0	0
3513:	1	0	1	0	0	0	0	0
3521:	0	0	0	1	0	0	0	1
3529:	0	0	0	0	1	0	0	0
3537:	0	0	0	0	0	1	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	1
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	1	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	1	0	0
3641:	0	0	1	0	0	1	0	0
3649:	0	1	0	0	1	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	1
3673:	0	0	1	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	1	0	0	0	2
3697:	0	0	0	0	1	0	0	0
3705:	0	1	0	0	0	0	2	0
3713:	0	0	0	1	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	1	0	0	0	0
3737:	0	0	0	0	0	1	0	1
3745:	0	0	0	0	1	0	0	0
3753:	0	0	0	0	1	0	0	0
3761:	0	0	1	0	0	0	0	0
3769:	0	0	0	1	1	0	0	0
3777:	0	0	0	0	0	2	0	0
3785:	0	0	0	0	0	1	0	0
3793:	0	0	0	1	0	0	0	1
3801:	0	0	0	1	1	1	0	0
3809:	0	0	0	0	1	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 4

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	1	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	1	0	0	0
3873:	0	1	1	0	0	0	0	0
3881:	0	0	0	0	0	1	0	0
3889:	0	1	0	0	0	0	1	0
3897:	0	0	0	0	0	0	0	0
3905:	1	0	1	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	1	0	0	0	0
3985:	1	0	0	0	0	0	0	0
3993:	0	1	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	1	0	0	0	0	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	1	1
4057:	0	1	0	1	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	1	0	0	0	0	0	0
4081:	0	0	0	0	0	1	0	0
4089:	0	0	0	1	0	0	0	0

0000026240.CNF



****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/20/15 5:35:50 AM

8/20

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/20/15 5:20:05 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 929.7 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6152E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3927E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1445E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.1219E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.5791E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5385E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

00681

Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 6.3130E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 1.0381E+005
Boundary Limits: [7.978E-002, 1.197E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 2.1420E+005
Boundary Limits: [1.714E-001, 2.571E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/20/15 5:35:40 AM

8/20

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/20/15 5:19:59 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 926.8 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0199E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6174E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8355E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0427E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	1.7787E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2102E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.3748E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4076E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.0962E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

00683

Decay corrected activity 1.0311E+004
Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	2.0288E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/20/15 6:04:58 AM

8/20

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/20/15 5:49:41 AM
Measurement Date: 8/20/15 5:49:44 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2	4.0344E+000	-1.8861E+000
[SD: 4.5708E+000+/- 0.284]		< : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/20/15 6:04:49 AM

8/20

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/20/15 5:49:36 AM
Measurement Date: 8/20/15 5:49:37 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1 [SD: 2.1675E+000+/- 0.363]	2.0978E+000	-1.9185E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

00686

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/21/15 6:06:02 AM

8/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004B.QCK

Detector: GE4
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/21/15 5:50:45 AM
Measurement Date: 8/21/15 5:50:47 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 901.4 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE4	1.6022E+000	-4.6063E-002
[SD: 9.5731E+000+/-173.04]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

00687

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/21/15 6:05:46 AM

8/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/21/15 5:50:30 AM
Measurement Date: 8/21/15 5:50:32 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2	4.0944E+000	-1.6669E+000
[SD: 4.5697E+000+/- 0.285]		< : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

00688

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Last Results Report
8/21/15 6:05:37 AM

8/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/21/15 5:50:24 AM
Measurement Date: 8/21/15 5:50:25 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1	2.1200E+000	-1.3044E-001
[SD: 2.1674E+000+/- 0.363]		< : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

00689

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/21/15 5:41:54 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/21/15 5:26:14 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 927.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0211E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6178E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0383E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.7295E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2917E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.2884E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4637E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.0452E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0481E+004	

00690

Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.9515E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

00691

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/21/15 5:42:07 AM

C
8/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/21/15 5:26:26 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 929.7 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6153E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3323E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3905E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1343E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.2625E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6201E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5466E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >

00692

Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 6.3500E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 1.0387E+005
Boundary Limits: [7.978E-002, 1.197E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 2.1721E+005
Boundary Limits: [1.714E-001, 2.571E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/21/15 6:25:21 AM

8/21

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004GAW-14C.QCK

Detector: GE4
Geometry: <None>
Certificate: GAW-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/21/15 6:09:15 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 956.0 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.8615E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6111E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3325E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8364E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	2.2289E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.6684E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.6961E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Y-88	3.0115E+000	
Boundary Limits: [5.000E-001, 3.500E+000]		< : : : >
Decay corrected activity	1.2290E+005	
Boundary Limits: [1.200E-001, 1.816E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

00694

Decay corrected activity 6.3743E+004
Boundary Limits: [4.918E-002, 7.377E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity Boundary Limits: [7.892E-002, 1.184E-001] Trend Test: The last 9 samples exhibit a bias trend.	1.0015E+005	< : : : >
Decay corrected activity Boundary Limits: [1.695E-001, 2.543E-001]	2.1834E+005	< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-08002-OR

September 2, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 15-00002

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		8/3/15	KC	Sample Log-In
		8/26/15	[illegible]	Data Compilation
		8-26-15	MLT	First Technical Data Review
		8/27/15	MSt	Second Technical Data Review
		08/28/15	EyT	Data Entry/Electronic Deliverable
		08/28/15	EyT	Case Narrative
		8/31/15	KBS	Electronic Deliverable Proof
		8/31/15	MSt	Samples Analyzed within Holding Time Yes? [X] No? [ ]
		8/31/15	MSt	QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: [signature] for Laboratory Manager 9/2/15 Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7122

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: Bridgeton	Project Number: BOR/ENG ID
Send Report To: C. Greene	Sampler (Print Name): Alex Lunca
Address: 9821 Cogdill Rd #1	Sampler (Print Name): Ashley Salur
Knoxville, TN 37932	Shipment Method: Fedex
	Airbill Number: 8045-4989-4412
Phone: 865-675-3609	Laboratory Receiving:
Email: CGREENE@Auxier.com	

Page ___ of ___

15-0802

Purchase Order #: _____

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GAMMA SPEC; ISO THORIUM; ISO URANIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4 FEEBRISID-8.075-076	7/29/15	0906	~~GS~~ S	1	X X X		
5 FEEBRISID-8.090-091	7/29/15	0941	~~GS~~ S	1	X X X		
6 FEEBRISID-4.061-062	7/30/15	0735	S	1	X X X		
7 FEEBRISID-4.064-065	7/30/15	0740	S	1	X X X		
8 FEEBRISID-20.080-081	7/30/15	0957	S	1	X X X	REC'D AUG 03 2015	
9 DUPLICATE #5	7/30/15	0957	S	1	X X X		
10 FEEBRISID-20.089-090	7/30/15	1024	S	1	X X X		
11 FEEBRISID-7.084-085	7/29/15	0807	S	1	X X X		

N/A

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		7/30/15	1410
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Kristen Coulston	8/3/15	900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☐
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other _____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

50005

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-08002
Lab Deadline	8/25/2015
Analysis	UUISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	82	ESC1.3
05	65	ESC1.3
06	90	ESC1.3
07	69	ESC1.3
08	153	ESC1.3
09	77	ESC1.3
10	101	ESC1.3
11	7570	ESC1.3

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room 1130	Kenny Seay	8-3-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 1305	Kenny Seay	8-4-15
Received by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JNolpe 8/4/15 1305	
Relinquished by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JNolpe 8/4/15 1112	
Received by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 8-12-15 1130	
Relinquished by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 8/12/15 ORD 2	
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	8/17 0800	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KLS 8/17/15 1432	
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-08002
Lab Deadline	8/25/2015
Analysis	ThISO - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	82	ESC1.3
	05	65	ESC1.3
	06	90	ESC1.3
	07	69	ESC1.3
	08	153	ESC1.3
	09	77	ESC1.3
	10	101	ESC1.3
	11	7570	ESC1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1130	Kmy Scs	8-3-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1305	Kmy Scs	8-4-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWOlfe 8-4-15 1305	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWOlfe 8/4/15 1620	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 8-12-15 1120	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 8-14-15 0804	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 0804	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 8/14/15 1420	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	**15-08002**
Lab Deadline	**8/25/2015**
Analysis	**Gamma - Level 4**
Sample Matrix	**Soil/Solid**

Comments

21 day ingrowth: Report Ac228, Bi214, K40, Pa231, Pb210/212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	82	ESC1.3
05	65	ESC1.3
06	90	ESC1.3
07	69	ESC1.3
08	153	ESC1.3
09	77	ESC1.3
10	101	ESC1.3
11	7570	ESC1.3

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room 1130	Kerry Sexj	8-3-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 1215	Kerry Sexj	8-4-15
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KB 8/4/15	1220
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	[illegible]	
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	08/03/2015	28	15-08002
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	BRIDGETON LANDFILL SOIL	H	08/25/2015	08/28/2015	08/31/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																				Ttl
01	LCS	08/03/15	SO	ESC1.3	X	X	X																				3
02	BLANK	08/03/15	SO	ESC1.3	X	X	X																				3
03	DUP	08/03/15	SO	ESC1.3	X	X	X																				3
04	FEEBRIS1D-8 075-076	07/29/15 09:06	SO	ESC1.3	X	X	X																				3
05	FEEBRIS1D-8 090-091	07/29/15 09:41	SO	ESC1.3	X	X	X																				3
06	FEEBRIS1D-4 061-062	07/30/15 07:35	SO	ESC1.3	X	X	X																				3
07	FEEBRIS1D-4 064-065	07/30/15 07:40	SO	ESC1.3	X	X	X																				3
08	FEEBRIS1D-20 080-081	07/30/15 09:57	SO	ESC1.3	X	X	X																				3
09	DUPLICATE 5	07/30/15 09:57	SO	ESC1.3	X	X	X																				3
10	FEEBRIS1D-20 089-090	07/30/15 10:24	SO	ESC1.3	X	X	X																				3
11	FEEBRIS1D-7 084-085	07/24/15 08:07	SO	ESC1.3	X	X	X																				3
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
Totals Per Analysis (non QA samples)					8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

0001O

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		Report Data		
	West Lake Landfill OU-1 Resp		Cecilia Greene	Marsha Joseph
	AMO Environmental Decisions		Auxier & Associates, Inc.	Auxier, Inc.
	PO Box 410		9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Danboro, PA 18916		Knoxville, TN 37932	Knoxville, TN 37932
Voice	215-230-8282	*Voice*	865-675-0379	865-675-3669
Fax	215-230-8283	*Fax*	865-675-3677	865-675-3677
Contact	Marsha Joseph			
Voice	865-675-3669			
Fax	865-675-3677			

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Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-00002

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS NON-AQUEOUS

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kristen Coulston DATE: 8/3/15

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39595

September 2, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-08002-OR

SAMPLE RECEIPT

This work order contains eight soil samples received 08/03/2015. These samples were analyzed for Isotopic Uranium, Isotopic Thorium and by Gamma Spectroscopy.

CLIENT ID	LAB ID	CLIENT ID	LAB ID
FEEBRIS1D-8 075-076	15-08002-04	FEEBRIS1D-20 080-081	15-08002-08
FEEBRIS1D-8 090-091	15-08002-05	DUPLICATE 5	15-08002-09
FEEBRIS1D-4 061-062	15-08002-06	FEEBRIS1D-20 089-090	15-08002-10
FEEBRIS1D-4 064-065	15-08002-07	FEEBRIS1D-7 084-085	15-08002-11

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

SPECIAL CIRCUMSTANCES

Sample fraction -04 (Client ID: FEEBRIS1D-8 075-076) was muffled prior to sample preparations. Sample fractions -04 and -11 (Client ID: FEEBRIS1D-8 075-076 and FEEBRIS1D-7 084-085) were digested with HF and diluted. Aliquots were removed from dilutions for chemical preparations. All results are reported on a "dry weight" basis.

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ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Uranium analyses. Chemical recovery was low for the method blank. Chemical recovery was acceptable for all other analyses. The Uranium-234, Uranium-235 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-234, Uranium-235 and Uranium-238 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-227, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Thorium analyses. Actinium-227 results were reported from Thorium-227 assuming secular equilibrium. All Thorium results for sample fractions -08 and -11 (Client IDs: FEEBRIS1D-20 080-081 & FEEBRIS1D-7 084-085) demonstrated slightly high detection limits. Chemical recovery was acceptable for all samples. The Thorium-227, Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-230 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Thorium-232 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

Samples were dried, homogenized and placed into appropriate gamma spectroscopy geometry containers. Samples were then sealed for 21 days to allow for ingrowth of Radon-222 and progeny. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors. Energy lines from Lead-214 and Bismuth-214 were analyzed for determinations of Radium-226 activity.

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Bismuth-214, Potassium-40 and Lead-214 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 9/2/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

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SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cobalt-60	LANL ER-130 Modified	1.33E+02	9.19E+00	1.15E+01	1.47E+00	1.75E+00	pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cesium-137	LANL ER-130 Modified	8.51E+01	8.25E+00	9.33E+00	2.67E+00	1.32E+00	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	-1.94E-02	1.44E-01	1.44E-01	2.31E-01	9.75E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	4.77E-02	8.26E-02	8.26E-02	1.51E-01	6.81E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	-2.13E-01	3.70E-01	3.70E-01	3.92E-01	1.24E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-3.96E-01	1.18E+00	1.18E+00	1.76E+00	8.06E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.95E-01	3.31E-01	3.32E-01	5.52E-01	2.65E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	5.06E-02	6.04E-02	6.04E-02	1.04E-01	4.89E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	1.45E-03	7.97E-02	7.97E-02	1.29E-01	5.95E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	4.77E-02	8.26E-02	8.26E-02	1.51E-01	6.25E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	-1.94E-02	1.44E-01	1.44E-01	2.31E-01	9.75E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.25E-01	3.99E-01	4.00E-01	6.49E-01	3.10E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	-1.57E-02	1.01E-01	1.01E-01	1.67E-01	7.29E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	9.43E-01	2.64E-01	2.68E-01	4.96E-01	2.32E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	4.54E+00	4.11E-01	4.73E-01	4.05E-01	1.95E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.07E+01	1.81E+00	1.89E+00	1.46E+00	6.70E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	9.77E-01	2.20E+00	2.20E+00	3.69E+00	1.76E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.44E+00	2.65E+00	2.66E+00	4.36E+00	2.14E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	7.87E-01	1.46E-01	1.51E-01	3.18E-01	1.56E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	4.91E+00	4.13E-01	4.84E-01	3.74E-01	1.81E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	4.54E+00	4.11E-01	4.73E-01	4.05E-01	1.65E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	9.43E-01	2.64E-01	2.68E-01	4.96E-01	2.32E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.60E+00	2.08E+00	2.09E+00	3.45E+00	1.69E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	6.46E-01	1.58E-01	1.62E-01	1.79E-01	1.99E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

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Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	8.91E-01	2.63E-01	2.67E-01	5.15E-01	2.42E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	4.37E+00	3.93E-01	4.53E-01	3.17E-01	1.52E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	9.44E+00	1.82E+00	1.88E+00	1.86E+00	8.70E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-2.58E-01	2.05E+00	2.05E+00	3.32E+00	1.58E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.10E+00	2.16E+00	2.16E+00	3.51E+00	1.71E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	9.99E-01	1.67E-01	1.75E-01	3.13E-01	1.53E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	4.96E+00	4.07E-01	4.80E-01	3.75E-01	1.82E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	4.37E+00	3.93E-01	4.53E-01	3.17E-01	1.77E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	8.91E-01	2.63E-01	2.67E-01	5.15E-01	2.42E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.10E+00	2.18E+00	2.18E+00	2.87E+00	1.40E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	8.60E-01	2.01E-01	2.06E-01	1.79E-01	2.55E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	6.85E-01	1.80E-01	1.84E-01	3.58E-01	1.71E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	5.07E-01	9.60E-02	9.95E-02	1.33E-01	6.29E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.56E+01	2.00E+00	2.15E+00	6.90E-01	3.14E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-3.20E-01	6.56E-01	6.56E-01	1.62E+00	7.66E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	2.94E+00	1.57E+00	1.57E+00	2.48E+00	1.21E+00	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	6.14E-01	9.78E-02	1.03E-01	1.68E-01	8.23E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	6.57E-01	1.02E-01	1.07E-01	1.59E-01	7.66E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	5.07E-01	9.60E-02	9.95E-02	1.33E-01	6.86E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	6.85E-01	1.80E-01	1.84E-01	3.58E-01	1.71E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.09E+00	6.54E-01	6.57E-01	1.08E+00	5.20E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	5.26E-01	1.04E-01	1.07E-01	9.89E-02	1.01E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	1.15E+00	2.63E-01	2.69E-01	4.96E-01	2.35E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	1.25E+00	1.87E-01	1.98E-01	2.05E-01	9.70E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.93E+01	2.36E+00	2.56E+00	9.09E-01	4.03E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	4.16E-01	1.05E+00	1.05E+00	3.27E+00	1.57E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.26E+00	2.12E+00	2.13E+00	3.47E+00	1.71E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.35E+00	1.61E-01	1.76E-01	2.55E-01	1.25E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	1.23E+00	1.67E-01	1.79E-01	2.72E-01	1.32E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	1.25E+00	1.87E-01	1.98E-01	2.05E-01	1.31E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	1.15E+00	2.63E-01	2.69E-01	4.96E-01	2.35E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.19E+00	2.12E+00	2.12E+00	3.53E+00	1.74E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	9.71E-01	1.92E-01	1.98E-01	1.93E-01	1.87E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

000018

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	6.99E-01	1.72E-01	1.75E-01	3.23E-01	1.53E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	8.59E-01	1.48E-01	1.55E-01	2.13E-01	1.03E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.49E+01	1.96E+00	2.10E+00	1.08E+00	5.08E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-2.56E-01	7.23E-01	7.23E-01	1.86E+00	8.80E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	1.37E+00	1.49E+00	1.50E+00	2.48E+00	1.21E+00	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	6.84E-01	1.09E-01	1.14E-01	1.81E-01	8.85E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	8.20E-01	1.20E-01	1.27E-01	2.16E-01	1.05E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	8.59E-01	1.48E-01	1.55E-01	2.13E-01	7.72E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	6.99E-01	1.72E-01	1.75E-01	3.23E-01	1.53E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.50E+00	7.22E-01	7.27E-01	1.21E+00	5.86E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	5.47E-01	1.04E-01	1.08E-01	1.35E-01	1.42E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	8.10E-02	9.61E-02	9.62E-02	1.69E-01	7.69E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	7.14E-01	9.14E-02	9.85E-02	4.31E-02	9.88E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.72E+00	4.93E-01	5.01E-01	5.44E-01	2.44E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	3.89E-01	7.52E-01	7.52E-01	1.30E+00	6.10E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	9.23E-01	6.41E-01	6.43E-01	1.53E+00	7.44E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.43E-01	4.77E-02	4.83E-02	1.20E-01	5.85E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	6.81E-01	1.00E-01	1.06E-01	1.38E-01	6.64E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	7.14E-01	9.14E-02	9.85E-02	4.31E-02	7.55E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	8.10E-02	9.61E-02	9.62E-02	1.69E-01	7.69E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.10E+00	7.72E-01	7.80E-01	1.16E+00	5.65E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	9.86E-02	6.12E-02	6.14E-02	1.09E-01	7.53E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	5.29E-02	1.53E-01	1.53E-01	2.57E-01	1.17E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	8.35E-01	1.27E-01	1.34E-01	1.23E-01	5.66E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.97E+00	7.75E-01	7.82E-01	1.04E+00	4.74E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	8.25E-01	1.25E+00	1.25E+00	2.00E+00	9.45E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	1.86E+00	1.19E+00	1.20E+00	1.64E+00	7.93E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.90E-01	6.67E-02	6.74E-02	1.67E-01	8.12E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	8.35E-01	1.16E-01	1.24E-01	1.68E-01	8.00E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	8.35E-01	1.27E-01	1.34E-01	1.23E-01	9.09E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	5.29E-02	1.53E-01	1.53E-01	2.57E-01	1.17E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.87E+00	1.01E+00	1.01E+00	1.42E+00	6.91E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	8.43E-02	1.23E-01	1.23E-01	2.07E-01	9.61E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

00019

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	1.15E+00	2.26E-01	2.34E-01	4.23E-01	2.00E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	1.33E+00	1.77E-01	1.90E-01	2.23E-01	1.07E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.95E+01	2.51E+00	2.71E+00	7.60E-01	3.39E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-1.53E+00	2.17E+00	2.17E+00	2.53E+00	1.20E+00	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	2.65E+00	2.20E+00	2.21E+00	3.63E+00	1.78E+00	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.24E+00	1.66E-01	1.78E-01	2.64E-01	1.29E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	1.27E+00	1.68E-01	1.80E-01	2.21E-01	1.06E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	1.33E+00	1.77E-01	1.90E-01	2.23E-01	1.44E+00	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	1.15E+00	2.26E-01	2.34E-01	4.23E-01	2.00E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.79E+00	9.26E-01	9.31E-01	1.54E+00	7.46E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	9.94E-01	1.67E-01	1.75E-01	1.64E-01	1.77E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	3.18E+01	9.30E+00	9.45E+00	1.67E+01	8.29E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	3.63E+03	1.55E+02	2.42E+02	1.17E+01	5.85E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	2.79E+01	2.52E+01	2.53E+01	4.20E+01	2.08E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-2.63E+02	1.29E+02	1.30E+02	1.55E+02	7.74E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	5.58E+02	1.04E+02	1.07E+02	1.42E+02	7.10E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	-1.08E+03	9.53E+01	1.10E+02	9.09E+00	4.54E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	3.94E+03	2.51E+02	3.23E+02	1.83E+01	9.16E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	3.63E+03	1.55E+02	2.42E+02	1.17E+01	1.05E+02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	3.18E+01	9.30E+00	9.45E+00	1.67E+01	8.29E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	8.23E+00	3.63E+01	3.63E+01	5.29E+01	2.64E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	1.40E+00	4.14E+00	4.14E+00	3.24E+00	5.91E+00	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	-1.37E-02	3.54E-02	3.55E-02	1.19E-01	3.00E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.93E-02	4.19E-02	4.19E-02	8.26E-02	1.10E-02	pCi/g
15-08002-04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.88E-01	1.47E-01	1.49E-01	1.45E-01	1.94E-02	pCi/g
15-08002-05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	7.36E-02	8.47E-02	8.52E-02	1.11E-01	1.24E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.81E-01	1.63E-01	1.64E-01	1.73E-01	1.94E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	6.04E-02	6.76E-02	6.80E-02	9.95E-02	1.83E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.08E-01	1.70E-01	1.71E-01	2.88E-01	3.47E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.40E-01	1.34E-01	1.35E-01	1.70E-01	3.51E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	2.41E-01	1.69E-01	1.71E-01	1.33E-01	1.17E-02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.03E+02	3.59E+01	3.81E+01	1.55E+01	2.65E+00	pCi/g

0020

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	5.37E+00	1.45E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	6.46E+00	1.08E+00	1.34E+00	7.13E-02	8.91E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	7.42E-02	6.86E-02	6.93E-02	6.41E-02	7.99E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	3.83E-01	1.59E-01	1.66E-01	5.96E-02	7.44E-02	pCi/g
15-08002-04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	3.54E+00	8.22E-01	9.31E-01	1.50E-01	1.26E-01	pCi/g
15-08002-05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	9.93E-01	3.42E-01	3.64E-01	1.16E-01	1.18E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.84E+00	5.78E-01	6.21E-01	1.81E-01	1.84E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	7.73E-01	2.33E-01	2.52E-01	1.11E-01	8.97E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.36E+00	5.67E-01	5.91E-01	2.71E-01	2.28E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.43E+00	4.76E-01	5.08E-01	1.36E-01	1.38E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.43E+00	4.52E-01	4.86E-01	1.13E-01	1.41E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.67E+04	2.75E+03	3.44E+03	2.30E+01	2.09E+01	pCi/g
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	4.87E+00	1.75E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	4.89E+00	8.61E-01	9.63E-01	8.95E-02	1.05E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	4.34E-02	5.28E-02	5.29E-02	6.40E-02	4.17E-03	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	7.48E-01	2.38E-01	2.47E-01	7.48E-02	8.73E-03	pCi/g
15-08002-04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	2.38E-01	1.61E-01	1.62E-01	1.31E-01	1.53E-02	pCi/g
15-08002-05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	5.95E-01	2.49E-01	2.54E-01	1.23E-01	2.12E-03	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.47E+00	4.98E-01	5.14E-01	1.54E-01	1.42E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	6.61E-01	2.14E-01	2.22E-01	1.23E-01	3.56E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	3.76E-01	2.83E-01	2.85E-01	2.80E-01	3.51E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.41E-01	1.20E-01	1.20E-01	1.01E-01	6.58E-03	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.20E+00	4.07E-01	4.20E-01	1.53E-01	2.11E-02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.78E+02	5.07E+01	5.31E+01	2.26E+01	8.73E+00	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

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Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	5.24E+00	1.88E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	5.02E+00	7.26E-01	8.10E-01	5.91E-02	5.48E-03	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	1.03E-01	2.49E-01	2.49E-01	5.18E-01	3.37E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	7.01E-02	4.40E-01	4.40E-01	1.06E+00	2.44E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	6.59E-01	4.73E-01	4.76E-01	3.51E-01	2.29E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	8.99E-01	5.16E-01	5.20E-01	3.40E-01	3.14E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	2.83E+00	1.24E+00	1.26E+00	6.25E-01	5.77E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	1.42E+00	6.08E-01	6.17E-01	3.43E-01	4.75E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	1.92E+00	8.16E-01	8.28E-01	5.58E-01	1.28E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	2.10E+00	7.75E-01	7.89E-01	2.75E-01	1.80E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	3.36E+00	1.53E+00	1.55E+00	8.61E-01	1.00E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	3.73E+02	1.65E+02	1.67E+02	8.70E+01	9.89E+00	pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	5.16E-01	1.83E-01	1.87E-01	6.37E-02	2.94E-03	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	0.00E+00	4.25E-01	4.25E-01	9.18E-01	8.32E-03	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	-9.39E-02	3.76E-01	3.76E-01	9.66E-01	8.61E-02	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	2.59E-01	3.59E-01	3.59E-01	5.45E-01	4.84E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	2.48E-01	3.01E-01	3.01E-01	3.66E-01	1.68E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	3.23E-01	5.49E-01	5.49E-01	9.67E-01	8.77E-03	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	3.75E-01	3.63E-01	3.64E-01	4.50E-01	4.09E-03	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	1.40E-01	4.00E-01	4.00E-01	8.12E-01	2.05E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	4.75E-01	3.96E-01	3.97E-01	3.40E-01	1.56E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	3.36E-01	5.71E-01	5.71E-01	9.68E-01	6.68E-02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	4.09E+01	6.97E+01	6.97E+01	1.23E+02	1.09E+00	pCi/g

22000

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-08002
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	5.10E+00	1.84E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	5.46E+00	7.75E-01	8.68E-01	5.89E-02	5.09E-03	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	1.24E-01	3.45E-01	3.45E-01	7.41E-01	8.81E-03	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	3.64E-01	6.81E-01	6.81E-01	1.25E+00	3.91E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	5.85E-01	4.74E-01	4.76E-01	5.28E-01	9.15E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	8.25E-01	4.93E-01	4.96E-01	3.38E-01	2.91E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	2.78E+00	1.24E+00	1.25E+00	7.34E-01	9.79E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	1.78E+00	6.84E-01	6.96E-01	3.18E-01	3.53E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	9.34E-01	5.89E-01	5.93E-01	6.09E-01	1.65E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	1.04E+00	5.31E-01	5.36E-01	2.74E-01	1.59E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	3.98E+00	1.68E+00	1.70E+00	9.22E-01	1.23E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	2.23E+02	1.25E+02	1.26E+02	8.66E+01	9.38E+00	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

32002

SECTION V

ANALYTICAL STANDARD

QA/QC REVIEWED
Date 1/16/95 Initials MC

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

U-8

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution: 65.2896 g in a 50 ml flame sealed ampoule
b. Chemical form: Uranyl Nitrate in H2O
c. Carrier content: None
d. Density: Approximately 1.3202 g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration: ±3.0%
b. Random uncertainty in assay: ±0.0%
c. Random uncertainty in weighing(s): ±2.0%
d. Total uncertainty at the 99% confidence level: ±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC, ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
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BURBANK, CALIFORNIA 91504
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00025

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 479-50 SOLUTION #: U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide: $^{234, 235, 238}U$ Reference Date: 1/1/1995 0:00

Certified Activity: 8.016E+00 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution

Uranyl nitrate in dilute HNO_3

Dilution Instructions: Dilution Solvent Used: 1M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 8.0160 µCi Which Equals 1.780E+07 dpm at the date listed above

And after dilution the activity of this solution is 1.77955E+04 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	IPL 479-50	Date	9/2/2014 0:00
		Solution #	U-8a

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest	$^{234, 235, 238}U$	Reference Date	1/1/1995 0:00
Parent Solution Conc.	1.7796E+04 dpm/ml		

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	4.0000	ml
Total Activity:	7.1182E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 7.1182E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00027

RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.356 grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Method of measurement (see reverse of this certificate)

Accuracy Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity The isotopic composition, expressed as atom per cent at the reference date .

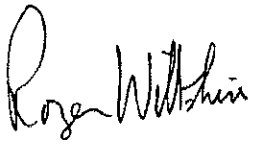
Not measured

Chemical Composition Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory 

Project Ref. AE2315

Roger Wiltshire

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

00028

AEA Technology is the trading name of AEA Technology plc

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Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 11/11/2014 0:00

SOLUTION REFERENCE # AEA/Amersham 92/232/67 **SOLUTION #** U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide ^{232}U
Certified Activity 9.760E-01 µCi
Certified Concentration µCi per gram

Reference Date 3/1/2000 0:00

Ampoule /Solution Gross Weight, Grams
Empty Ampoule Weight, Grams
Solution Net Weight, Grams
Total Activity in Ampoule 0.9760 µCi

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used 2M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.9760 µCi **Which Equals** 2.167E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.167E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

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EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 11/01/03
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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	11/11/2014 0:00
Solution Reference #	AEA/Amersham 92/232/67	Solution #	U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest	^{232}U	Reference Date	3/1/2000 0:00
Parent Solution Conc.	2.167E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions: **Dilution Solvent Used** 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000	ml
Total Activity:	2.1670E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 2.1670E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

00030

QA/QC REVIEWED
Date 10/14/91 Initials WT 10/14/91 WT

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 µCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 µCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

ISOTOPE PRODUCTS LABORATORIES
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Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

		CURRENT DATE	4/15/2015 0:00
SOLUTION REFERENCE #	IPL 388-116	SOLUTION #	Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide	^{230}Thorium	Reference Date	11/1/1991 0:00
Certified Activity	1.036E+00	µCi	
Certified Concentration		µCi per gram	

Ampoule /Solution Gross	9.2660	Weight, Grams
Empty Ampoule	4.6218	Weight, Grams
Solution Net	4.6442	Weight, Grams
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution

$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1N HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0360 µCi **Which Equals** 2.300E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.300E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

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Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	4/15/2015 0:00
Solution Reference #	IPL 388-116	Solution #	Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest	^{230}Thorium	Reference Date	11/1/1991 0:00
Parent Solution Conc.	2.30E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ In 0.1N HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000 ml		
Total Activity:	2.2999E+04 dpm	Final Activity Concentration:	2.2999E+01 dpm/ml
Final Volume:	1000.00 ml		

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405 ± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 μCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)	
b. Chemical form:	Th(NO3)4 in water	
c. Carrier content:	None added	
d. Density:	Approx. 1.21	g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 μCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

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MP-009

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Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 435-104-2 SOLUTION #: Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide: $^{232\ \&\ 228}Th$ Reference Date: 11/1/1993 0:00

Certified Activity: 9.330E-02 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in H2O

Dilution Instructions: Dilution Solvent Used: 1% Nitric Acid

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 0.0933 µCi Which Equals 2.071E+05 dpm at the date listed above

And after dilution the activity of this solution is 2.071E+02 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00035

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev 8; 1/10/03

Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009

Solution Reference #: IPL 435-104-2 **Date:** 9/2/2014 0:00

Solution #: Th-8b

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{228\ \&\ 232}Th$	1.405E+10	5.132E+12

Radionuclide of Interest: $^{228\ \&\ 232}Th$

Parent Solution Conc.: 2.07E+02 dpm/ml

Reference Date: 11/1/1993 0:00

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions:

Dilution Solvent Used: 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 500.0000 ml

Total Activity: 1.0355E+05 dpm

Final Volume: 1000.00 ml

Final Activity Concentration: 1.0355E+02 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00036

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity: (Th-229 only)**	1.013 µCi 37.48 kBq

Physical Description:

A.	Mass of solution:	5.0147 g in 5 mL flame-sealed ampoule
B.	Chemical form:	$Th(NO_3)_4$ in 0.1M HNO_3
C.	Carrier content:	10µg Th/mL
D.	Density:	1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.

Peak energy used for integration:	193.5 keV
Branching ratio used:	0.0441 gammas per decay

Uncertainty of Measurement:

A.	Type A (random) uncertainty:	± 0.7 %
B.	Type B (systematic) uncertainty:	± 3.0 %
C.	Uncertainty in aliquot weighing:	± 0.0 %
D.	Total uncertainty at the 99% confidence level:	± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

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EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

		CURRENT DATE	9/2/2014 0:00
SOLUTION REFERENCE #	IPL 867-54	SOLUTION #	Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide	^{229}Th	Reference Date	1/15/2002 0:00
Certified Activity	1.013E+00	µCi	
Certified Concentration		µCi per gram	

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1 M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0130 µCi **Which Equals** 2.249E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.249E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00038

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 867-54	Solution #	Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide of Interest: ^{229}Th
Parent Solution Conc.: 2.25E+03 dpm/ml

Reference Date: 1/15/2002 0:00

Chemical Composition of Standard Solution
$TH(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2490E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2490E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00039

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1402

98503

Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY — HEALTH PHYSICS SOCIETY — FOUNDED 1956

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00040

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	UUISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		95.82%	16.14%	100.00%	3.60%	5.24E+00	1.88E-01	5.02E+00	8.10E-01	U-8a	3.52E+01	3.60E+00	3.30E-01
U-238		107.05%	15.88%	100.00%	3.60%	5.10E+00	1.84E-01	5.46E+00	8.68E-01	U-8a	3.44E+01	3.60E+00	3.30E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	1.78	161.54	6.59E-01	4.76E-01	7.01E-02	4.40E-01
U-238	0.52	46.59	5.85E-01	4.76E-01	3.64E-01	6.81E-01
U-235	1.33	427.95	2.59E-01	3.59E-01	-9.39E-02	3.76E-01

QC Summary

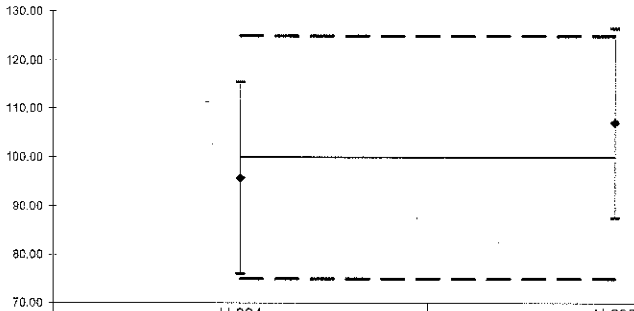
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.96	OK				NA	OK
1.07	OK				NA	OK
	OK				NA	OK

00042

Version

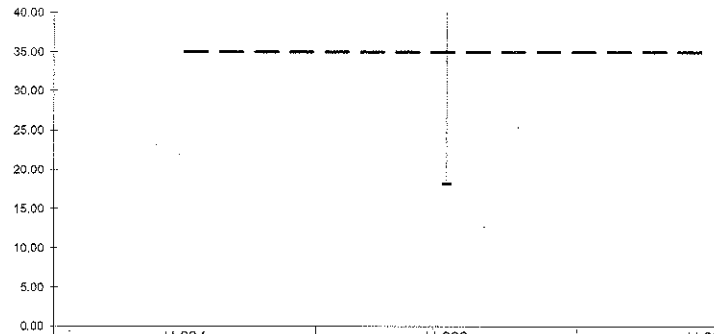
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	UUISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



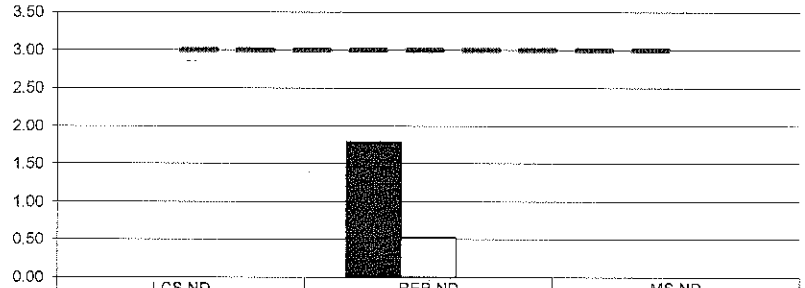
	U-234	U-238
Lower Error	76.08	87.56
Upper Error	115.56	126.53
%R	95.82	107.05
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	262.91	75.00	1383.54
Upper Error	60.16	18.19	-527.63
RPD	161.54	46.59	427.95
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	1.78	0.00
U-238	0.00	0.52	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	ThISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		120.28%	19.41%	100.00%	3.60%	4.87E+00	1.75E-01	5.85E+00	1.14E+00	Th-8b	1.04E+02	3.60E+00	1.04E-01
TH-230		120.22%	20.75%	100.00%	2.70%	5.37E+00	1.45E-01	6.46E+00	1.34E+00	Th-1b	2.35E+01	2.70E+00	5.07E-01
TH-232		100.48%	19.69%	100.00%	3.60%	4.87E+00	1.75E-01	4.89E+00	9.63E-01	Th-8b	1.04E+02	3.60E+00	1.04E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	2.67	79.33	3.13E-01	1.77E-01	7.25E-01	2.45E-01
TH-230	2.99	88.65	9.93E-01	3.64E-01	3.83E-01	1.66E-01
TH-232	0.85	22.81	5.95E-01	2.54E-01	7.48E-01	2.47E-01

QC Summary

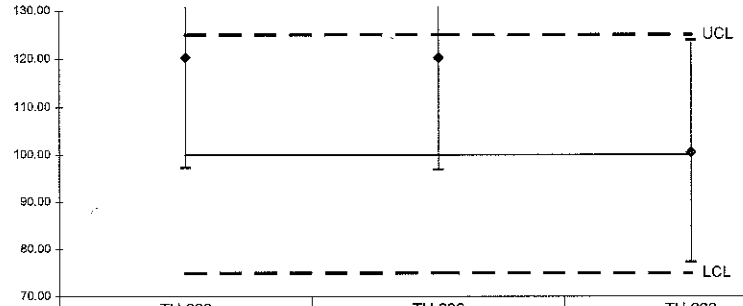
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.20	OK				NA	OK
1.20	OK				INV	OK
1.00	OK				OK	OK

000044

Version

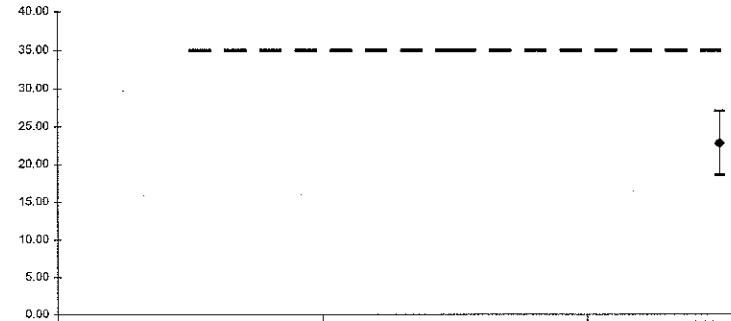
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	ThISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



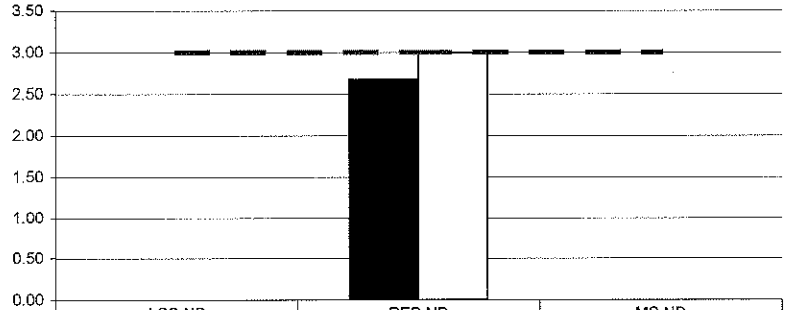
	TH-228	TH-230	TH-232
Lower Error	97.27	96.78	77.19
Upper Error	143.28	143.67	123.77
%R	120.28	120.22	100.48
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	95.48	105.69	27.07
Upper Error	63.18	71.61	18.55
RPD	79.33	88.65	22.81
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	2.67	0.00
TH-230	0.00	2.99	0.00
UCL	3	3	3

No Matrix Spike

000045

Version

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	Gamma	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		97.31%	8.59%	100.00%	4.00%	1.37E+02	5.48E+00	1.33E+02	1.15E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		97.87%	10.97%	100.00%	4.00%	8.69E+01	3.48E+00	8.51E+01	9.33E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
BI-214	0.48	3.63	4.37E+00	4.53E-01	4.54E+00	4.73E-01
K-40	0.94	12.72	9.44E+00	1.88E+00	1.07E+01	1.89E+00
PB-214	0.16	1.12	4.96E+00	4.80E-01	4.91E+00	4.84E-01

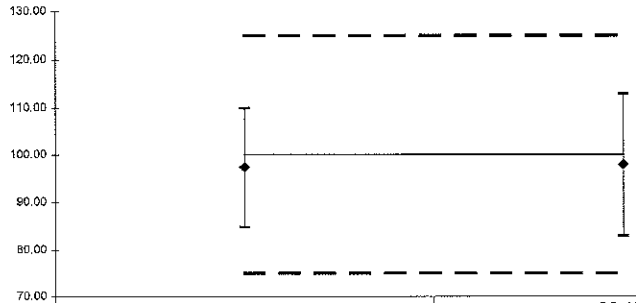
QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.97	OK		<CS-137	BI-214>	NA	
0.98	OK		<CO-60	K-40>	NA	OK
				PB-214>	NA	OK

000046 Version

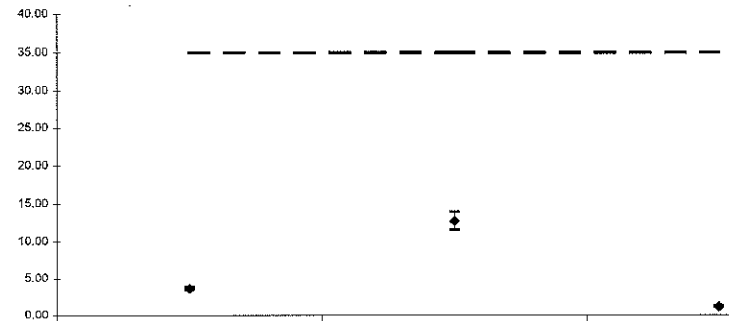
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	Gamma	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



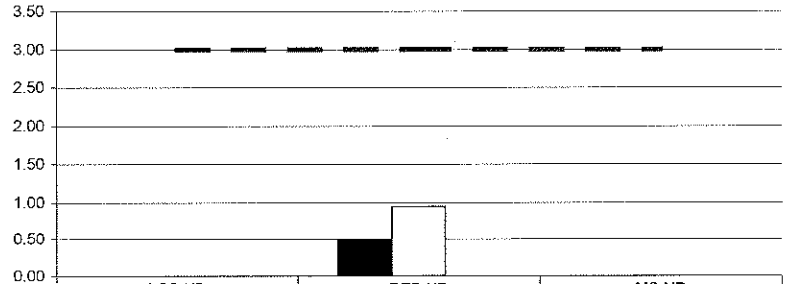
	CO-60	CS-137
Lower Error	84.72	82.89
Upper Error	109.90	112.84
%R	97.31	97.87
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	Bi-214	K-40	PB-214
Lower Error	3.82	13.90	1.17
Upper Error	3.44	11.53	1.06
RPD	3.63	12.72	1.12
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.48	0.00
CS-137	0.00	0.94	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled KS

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:13	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS

JWolfe
8/12/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:13	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/14/15 18:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100 ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

8/14/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:13	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/14/15 18:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
4	08/17/15 05:02	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

8-17-15
JMS

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order: 15-08002

Analysis Code: UUISO

Run: 1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	8/12/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	8/12/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	8/12/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	8/12/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	8/14/2015
016546D01	Hydrochloric Acid	0.5N	JDEMELAS	8/14/2015
016615S	Hydrochloric Acid	6.5N	JDEMELAS	8/14/2015
016663S	Hydrochloric Acid	8N	JDEMELAS	8/14/2015
016232P	Hydrochloric Acid	Reagent Grade	JDEMELAS	8/14/2015
016707S	HCl - NH4I	8N - 0.1M	JDEMELAS	8/14/2015
016662S	HCl - HF	6.5N - 0.04N	JDEMELAS	8/14/2015
016654S	Carbon substrate	Solution	TSMITH	8/17/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	8/17/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	8/17/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	8/17/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	8/17/2015

Alpha #7

Date	Sample #	Client	Field Time	CT Time	Analyst	Hea
8/17/15	1508004A(15-20)	USA	1120	2h-00	Foo-Th	KC
8/17/15	1508002A(1-11)	Amo Env.	1121	2h-00	UU	KC

ISO TH NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled KS

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:12	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS

JWOLFE 8/12/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:12	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/13/15 18:34	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

8/13/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:12	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/13/15 18:34	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
4	08/14/15 05:01	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Thorium)

8/14/15

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-08002	
Analysis Code	Run
ThISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	8/12/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	8/12/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	8/12/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	8/12/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	8/13/2015
016663S	Hydrochloric Acid	8N	JDEMELAS	8/13/2015
016232P	Hydrochloric Acid	Reagent Grade	JDEMELAS	8/13/2015
016660S	Nitric Acid	8N	JDEMELAS	8/13/2015
016403P	Nitric Acid	Reagent Grade	JDEMELAS	8/13/2015
016654S	Carbon substrate	Solution	TSMITH	8/14/2015
016557S	Cerrium Carrier	0.1mg/ml	TSMITH	8/14/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	8/14/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	8/14/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/12	1508003A(1-8)	USA	0877	2hr	Th Iso	—
8/12/15	1508003A(9-20)	USA	1135	2hr 50	ISO-Th	KB
8/13	Daily Pulse	LAB	0521	"	NA	—
8/13	1507160A(8-14)	~~Analysts~~ Analysts	0824	2hr	Am241	—
8/13	1508003A(1-19)	USA	0825	2hr	UUIso	—
8/13/15	1508003A(20)	USA	1121	2hr 50	ISO-UU	KB
8/13/15	1508006A(1-5)	UCOR	1122	2hr 50	ISO-Th	KB
8/13/15	1507182A(1-11)	AMO ENV.	1123	2hr 50	ISO-Th	KB
8/13/15	1507080B(1-4)	ERA	1124	2hr 50	Rak	KB
8/14	Daily Pulse	LAB	0500	"	NA	—
8/14	SECCAL(37-48)	LAB	0516	2hr	NA	—
8/14	SECCAL(48-60)	LAB	0750	2hr	NA	—
8/14	1508006A(3-5)	UCOR	0822	2hr	Am243	—
8/14	1508004A(1-12)	USA	0822	2hr	UUIso	—
8/14/15	1508004A(12-20)	USA	1024	2hr 50	ISO-UU	KB
8/14/15	1508020A(1-3)	UCOR	1025	2hr 50	Np	KB
8/14/15	1508020A(4)	UCOR	1119	2hr 50	Np	KB
8/14/15	1508002A(1-11)	AMO ENV.	1120	2hr 50	ISO-Th	KB
8/14/15	1508006A(1-2)	UCOR	1121	2hr 50	Th229	KB

GAMMA NOTES

GE 1

DATE	SAMPLE #	Client	Load Time	CT. Time	Analysis	Tech
8/24/15	1508045-07	Accutest	1638	15mins	Ba	KB
8/25	CAT 14	LAB	0527	15	✓	[illegible]
8/25	Dwlyn	LAB	0549	15	✓	[illegible]
8/25	1508007-03	USA	0611	1hr	✓	[illegible]
8/25	1508007-04	USA	0716	1h	✓	[illegible]
8/25	1508007-11	USA	0818	1h	✓	[illegible]
8/25	1508007-15	USA	0920	1h	✓	[illegible]
8/25	1508004-03	USA	1021	1h	✓	[illegible]
8/25	1508004-04	USA	1122	1h	✓	[illegible]
8/25/15	1508004-09	USA	1222	1hr	✓	KB
8/25	1508004-13	USA	1323	1h	✓	[illegible]
8/25/15	1508004-17	USA	1423	1hr	✓	KB
8/25/15	1508002-03	AMO Env.	1524	1hr	✓	KB
8/25/15	1508002-04	AMO Env.	1624	1hr	✓	KB
8/25/15	1508002-08	AMO Env.	1725	1hr	✓	KB

GE 2

DATE	sample #	Client	Load Time	CT Time	Analysis	Tech	
8/24/15	1508045-05	Accutest	1634	15mins	Ba	ICB	
8/25	CCV1401	LAB	0025	15	✓		
8/25	Reagent	LAB	0045	15	✓		
8/25	1508002-05	USA	0611	1L	✓		
8/25	1508002-08	USA	0716	1L	✓		
8/25	1508002-12	USA	0818	1L	✓		
8/25	1508002-16	USA	0917	1L	✓		
8/25	1508002-14	USA	0920	1L	✓		
8/25	1508002-20	USA	1020	1L	✓		
8/25	1508004-02	USA	1123	1L	✓		
8/25/15	1508004-10	USA	1224	1hr	✓	ICB	
8/25	1508004-14	USA	1324	1L	✓		
8/25/15	1508004-18	USA	1424	1hr	✓	ICB	
8/25/15	1508002-11	AMO Env.	1526	15mins	✓	ICB	
8/25/15	1508066-01	MPA	1544	15mins	Ba	ICB	
8/25/15	1508066-02	MPA	1600	15 mins	Ba	ICB	
8/25/15	1508002-05	AMO Env.	1616	1hr	✓	ICB	
8/25/15	1508002-07	AMO Env.	1717	1hr	✓	ICB	
8/25/15	1508002-10	AMO Env.	1818	1hr	✓	ICB	

GE 3

DATE	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/25	1508007-07	USA	0709	ZL	✓	✓
8/25	1508007-10	USA	0812	ZL	✓	✓
8/25	1508007-11	USA	0913	ZL	✓	✓
8/25	1508007-18	USA	1017	ZL	✓	✓
8/25	1508004-06	USA	1118	ZL	✓	✓
8/25/15	1508004-08	USA	1220	1hr	✓	KB
8/25	1508004-12	USA	1321	ZL	✓	✓
8/25/15	1508004-16	USA	1422	1hr	✓	KB
8/25/15	1508004-20	USA	1522	1hr	✓	KB
8/25/15	1508002-06	AMO Env.	1623	1hr	✓	KB
8/25/15	1508002-09	AMO Env.	1725	1hr	✓	KB

GE 4

DATE	SAmple #	Client	Load Time	CT. Time	Analysis	Tech
8/25	EAW 14	LAB	0520	15	✓	[illegible]
8/25	[illegible]	LAB	0549	15	✓	[illegible]
8/25	1508007-06	USA	0611	JL	✓	—
8/25	1508007-09	USA	0716	JL	✓	—
8/25	1508007-13	USA	0818	JL	✓	—
8/25	1508007-17	USA	0921	JL	✓	—
8/25	1508007-19	USA	1022	JL	✓	—
8/25	1508004-05	USA	1123	JL	✓	—
8/25/15	1508004-11	USA	1224	1 hr	✓	KB
8/25	1508004-15	USA	1325	JL	✓	—
8/25/15	1508004-19	USA	1425	1 hr	✓	KB
8/25/15	1508002-01	AMO Env.	1531	30 mins	✓	KB
8/25/15	1508066-03	MPA	1602	15 mins	Ba	KB
8/25/15	1508066-04	MPA	1617	15 mins	Ba	KB
8/25/15	1508066-05	MPA	1633	15 mins	Ba	KB
8/25/15	1508066-06	MPA	1649	15 mins	Ba	KB
8/25/15	1508071-01	ND	1704	15 mins	Ba	KB
8/25/15	1508002-02	AMO Env.	1719	1 hr	✓	KB

00067

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

15-08002
UUISO
Run 1

Work Order	15-08002
Analysis Code	UUISO
Run	1
Date Received	8/3/2015
Lab Deadline	8/25/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.68
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		08/03/15 00:00	1.0000E+00
02	MBL	BLANK		08/03/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-8 075-076	82	07/29/15 09:06	1.6040E-01
04	DO	FEEBRIS1D-8 075-076	82	07/29/15 09:06	1.6040E-01
05	TRG	FEEBRIS1D-8 090-091	65	07/29/15 09:41	2.5710E-01
06	TRG	FEEBRIS1D-4 061-062	90	07/30/15 07:35	1.0350E-01
07	TRG	FEEBRIS1D-4 064-065	69	07/30/15 07:40	2.5430E-01
08	TRG	FEEBRIS1D-20 080-081	153	07/30/15 09:57	1.6840E-01
09	TRG	DUPLICATE 5	77	07/30/15 09:57	2.5070E-01
10	TRG	FEEBRIS1D-20 089-090	101	07/30/15 10:24	1.0200E-01
11	TRG	FEEBRIS1D-7 084-085	7570	07/24/15 08:07	1.4320E-03

69000

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-08002
UUISO
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6038	11.3		0.00								
02	MBL	0.6029	11.3		0.00								
03	DUP	0.6026	11.3		0.00								
04	DO	0.6015	11.2		0.00								
05	TRG	0.6013	11.2		0.00								
06	TRG	0.6007	11.2		0.00								
07	TRG	0.6000	11.2		0.00								
08	TRG	0.6010	11.2		0.00								
09	TRG	0.6000	11.2		0.00								
10	TRG	0.6006	11.2		0.00								
11	TRG	0.6007	11.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

002000

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			08/12/15 06:43	JWOLFE				
02	MBL			08/12/15 06:43	JWOLFE				
03	DUP			08/12/15 06:43	JWOLFE				
04	DO	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
05	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
06	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
07	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
08	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
09	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
10	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
11	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	5.02E+00	7.26E-01	5.91E-02	5.24E+00	95.82	OK		OK	
02	U-234	MBL	BLANK	pCi/g	1.03E-01	2.49E-01	5.18E-01					INV	OK
03	U-234	DUP	FEEBRIS1D-8 075-076	pCi/g	7.01E-02	4.40E-01	1.06E+00				NA	INV	
04	U-234	DO	FEEBRIS1D-8 075-076	pCi/g	6.59E-01	4.73E-01	3.51E-01					INV	
05	U-234	TRG	FEEBRIS1D-8 090-091	pCi/g	8.99E-01	5.16E-01	3.40E-01					INV	
06	U-234	TRG	FEEBRIS1D-4 061-062	pCi/g	2.83E+00	1.24E+00	6.25E-01					INV	
07	U-234	TRG	FEEBRIS1D-4 064-065	pCi/g	1.42E+00	6.08E-01	3.43E-01					INV	
08	U-234	TRG	FEEBRIS1D-20 080-081	pCi/g	1.92E+00	8.16E-01	5.58E-01					INV	
09	U-234	TRG	DUPLICATE 5	pCi/g	2.10E+00	7.75E-01	2.75E-01					INV	
10	U-234	TRG	FEEBRIS1D-20 089-090	pCi/g	3.36E+00	1.53E+00	8.61E-01					INV	
11	U-234	TRG	FEEBRIS1D-7 084-085	pCi/g	3.73E+02	1.65E+02	8.70E+01					INV	

27000 00072

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	08/03/15 00:00	1.00E+00	111.00	0.00	0.00			
02	U-234	MBL	08/03/15 00:00	1.00E+00	11.52	0.00	0.00			
03	U-234	DUP	07/29/15 09:06	1.60E-01	59.23	0.00	0.00			
04	U-234	DO	07/29/15 09:06	1.60E-01	113.18	0.00	0.00			
05	U-234	TRG	07/29/15 09:41	2.57E-01	72.75	0.00	0.00			
06	U-234	TRG	07/30/15 07:35	1.04E-01	106.82	0.00	0.00			
07	U-234	TRG	07/30/15 07:40	2.54E-01	97.58	0.00	0.00			
08	U-234	TRG	07/30/15 09:57	1.68E-01	113.12	0.00	0.00			
09	U-234	TRG	07/30/15 09:57	2.51E-01	97.24	0.00	0.00			
10	U-234	TRG	07/30/15 10:24	1.02E-01	93.24	0.00	0.00			
11	U-234	TRG	07/24/15 08:07	1.43E-03	74.98	0.00	0.00			

Run: 1
Analysis Code: UUISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	08/17/15 11:20		A_Spec	Alpha_039	170	4.06 E+02	2.00 E-03	19.3
02	U-234	MBL	08/17/15 11:20		A_Spec	Alpha_040	170	8.30 E-01	1.00 E-03	18.6
03	U-234	DUP	08/17/15 11:20		A_Spec	Alpha_041	170	4.70 E-01	9.00 E-03	18.7
04	U-234	DO	08/17/15 11:20		A_Spec	Alpha_042	170	7.83 E+00	1.00 E-03	17.4
05	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_043	170	1.27 E+01	2.00 E-03	20
06	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_044	170	2.17 E+01	2.00 E-03	18.4
07	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_045	170	2.33 E+01	4.00 E-03	17.6
08	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_046	170	2.45 E+01	9.00 E-03	17.8
09	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_047	170	3.18 E+01	1.00 E-03	16.5
10	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_048	170	2.05 E+01	3.00 E-03	17
11	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_049	170	2.25 E+01	3.00 E-03	15.3

4200 074

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	5.46E+00	7.75E-01	5.89E-02	5.10E+00	107.05	OK		OK	
02	U-238	MBL	BLANK	pCi/g	1.24E-01	3.45E-01	7.41E-01					INV	OK
03	U-238	DUP	FEEBRIS1D-8 075-076	pCi/g	3.64E-01	6.81E-01	1.25E+00				NA	INV	
04	U-238	DO	FEEBRIS1D-8 075-076	pCi/g	5.85E-01	4.74E-01	5.28E-01					INV	
05	U-238	TRG	FEEBRIS1D-8 090-091	pCi/g	8.25E-01	4.93E-01	3.38E-01					INV	
06	U-238	TRG	FEEBRIS1D-4 061-062	pCi/g	2.78E+00	1.24E+00	7.34E-01					INV	
07	U-238	TRG	FEEBRIS1D-4 064-065	pCi/g	1.78E+00	6.84E-01	3.18E-01					INV	
08	U-238	TRG	FEEBRIS1D-20 080-081	pCi/g	9.34E-01	5.89E-01	6.09E-01					INV	
09	U-238	TRG	DUPLICATE 5	pCi/g	1.04E+00	5.31E-01	2.74E-01					INV	
10	U-238	TRG	FEEBRIS1D-20 089-090	pCi/g	3.98E+00	1.68E+00	9.22E-01					INV	
11	U-238	TRG	FEEBRIS1D-7 084-085	pCi/g	2.23E+02	1.25E+02	8.66E+01					INV	

C2000

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	08/03/15 00:00	1.00E+00	111.00	0.00	0.00			
02	U-238	MBL	08/03/15 00:00	1.00E+00	11.52	0.00	0.00			
03	U-238	DUP	07/29/15 09:06	1.60E-01	59.23	0.00	0.00			
04	U-238	DO	07/29/15 09:06	1.60E-01	113.18	0.00	0.00			
05	U-238	TRG	07/29/15 09:41	2.57E-01	72.75	0.00	0.00			
06	U-238	TRG	07/30/15 07:35	1.04E-01	106.82	0.00	0.00			
07	U-238	TRG	07/30/15 07:40	2.54E-01	97.58	0.00	0.00			
08	U-238	TRG	07/30/15 09:57	1.68E-01	113.12	0.00	0.00			
09	U-238	TRG	07/30/15 09:57	2.51E-01	97.24	0.00	0.00			
10	U-238	TRG	07/30/15 10:24	1.02E-01	93.24	0.00	0.00			
11	U-238	TRG	07/24/15 08:07	1.43E-03	74.98	0.00	0.00			

92000

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-08002

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	08/17/15 11:20		A_Spec	Alpha_039	170	4.44 E+02	2.00 E-03	19.3
02	U-238	MBL	08/17/15 11:20		A_Spec	Alpha_040	170	1.00 E+00	0.00 E+00	18.6
03	U-238	DUP	08/17/15 11:20		A_Spec	Alpha_041	170	2.45 E+00	1.50 E-02	18.7
04	U-238	DO	08/17/15 11:20		A_Spec	Alpha_042	170	6.98 E+00	6.00 E-03	17.4
05	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_043	170	1.17 E+01	2.00 E-03	20
06	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_044	170	2.13 E+01	4.00 E-03	18.4
07	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_045	170	2.95 E+01	3.00 E-03	17.6
08	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_046	170	1.20 E+01	1.20 E-02	17.8
09	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_047	170	1.58 E+01	1.00 E-03	16.5
10	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_048	170	2.43 E+01	4.00 E-03	17
11	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_049	170	1.35 E+01	3.00 E-03	15.3

12000

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	5.16E-01	1.83E-01	6.37E-02					OK	
02	U-235	MBL	BLANK	pCi/g	0.00E+00	4.25E-01	9.18E-01					INV	OK
03	U-235	DUP	FEEBRIS1D-8 075-076	pCi/g	-9.39E-02	3.76E-01	9.66E-01				NA	INV	
04	U-235	DO	FEEBRIS1D-8 075-076	pCi/g	2.59E-01	3.59E-01	5.45E-01					INV	
05	U-235	TRG	FEEBRIS1D-8 090-091	pCi/g	2.48E-01	3.01E-01	3.66E-01					INV	
06	U-235	TRG	FEEBRIS1D-4 061-062	pCi/g	3.23E-01	5.49E-01	9.67E-01					INV	
07	U-235	TRG	FEEBRIS1D-4 064-065	pCi/g	3.75E-01	3.63E-01	4.50E-01					INV	
08	U-235	TRG	FEEBRIS1D-20 080-081	pCi/g	1.40E-01	4.00E-01	8.12E-01					INV	
09	U-235	TRG	DUPLICATE 5	pCi/g	4.75E-01	3.96E-01	3.40E-01					INV	
10	U-235	TRG	FEEBRIS1D-20 089-090	pCi/g	3.36E-01	5.71E-01	9.68E-01					INV	
11	U-235	TRG	FEEBRIS1D-7 084-085	pCi/g	4.09E+01	6.97E+01	1.23E+02					INV	

82000

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	08/03/15 00:00	1.00E+00	111.00	0.00	0.00			
02	U-235	MBL	08/03/15 00:00	1.00E+00	11.52	0.00	0.00			
03	U-235	DUP	07/29/15 09:06	1.60E-01	59.23	0.00	0.00			
04	U-235	DO	07/29/15 09:06	1.60E-01	113.18	0.00	0.00			
05	U-235	TRG	07/29/15 09:41	2.57E-01	72.75	0.00	0.00			
06	U-235	TRG	07/30/15 07:35	1.04E-01	106.82	0.00	0.00			
07	U-235	TRG	07/30/15 07:40	2.54E-01	97.58	0.00	0.00			
08	U-235	TRG	07/30/15 09:57	1.68E-01	113.12	0.00	0.00			
09	U-235	TRG	07/30/15 09:57	2.51E-01	97.24	0.00	0.00			
10	U-235	TRG	07/30/15 10:24	1.02E-01	93.24	0.00	0.00			
11	U-235	TRG	07/24/15 08:07	1.43E-03	74.98	0.00	0.00			

64000

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	08/17/15 11:20		A_Spec	Alpha_039	170	3.38 E+01	1.00 E-03	19.3
02	U-235	MBL	08/17/15 11:20		A_Spec	Alpha_040	170	1.00 E+00	0.00 E+00	18.6
03	U-235	DUP	08/17/15 11:20		A_Spec	Alpha_041	170	-5.10 E-01	3.00 E-03	18.7
04	U-235	DO	08/17/15 11:20		A_Spec	Alpha_042	170	2.49 E+00	3.00 E-03	17.4
05	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_043	170	2.83 E+00	1.00 E-03	20
06	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_044	170	2.00 E+00	0.00 E+00	18.4
07	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_045	170	5.00 E+00	0.00 E+00	17.6
08	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_046	170	1.45 E+00	1.50 E-02	17.8
09	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_047	170	5.83 E+00	1.00 E-03	16.5
10	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_048	170	1.66 E+00	2.00 E-03	17
11	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_049	170	2.00 E+00	0.00 E+00	15.3

08000

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-08002	1	UUISO	8/18/2015 10:44	MMCDOUGALL		

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	*Sol #*	*Activity dpm/g*	*Solution Date*	*Approx Addition*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*
U-234	U-8a	35.240	8/18/2015	0.500	0.3298				5.24	0.188	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	8/18/2015	0.500	0.3298				5.10	0.184	0.00	0.000	0.00	0.000	0.00	0.000

Tracers						
fraction	*Isotope*	*Sol #*	*Activity dpm/g*	*Solution Date*	*Volume Used (g)*	*Approx Addition*
01	U-232	U-10a	18.670	8/18/2015	0.6038	0.6500
02	U-232	U-10a	18.670	8/18/2015	0.6029	0.6500
03	U-232	U-10a	18.670	8/18/2015	0.6026	0.6500
04	U-232	U-10a	18.670	8/18/2015	0.6015	0.6500
05	U-232	U-10a	18.670	8/18/2015	0.6013	0.6500
06	U-232	U-10a	18.670	8/18/2015	0.6007	0.6500
07	U-232	U-10a	18.670	8/18/2015	0.6000	0.6500
08	U-232	U-10a	18.670	8/18/2015	0.6010	0.6500
09	U-232	U-10a	18.670	8/18/2015	0.6000	0.6500
10	U-232	U-10a	18.670	8/18/2015	0.6006	0.6500
11	U-232	U-10a	18.670	8/18/2015	0.6007	0.6500

Balance Printer Tapes

Tracer

LCS



Matrix Spike

00081

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/12/2015 6:07 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-08002	1	UUISO	grams	8/25/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-8 075-076	DUP		1	12.47	8.02E-02	2.0000E+00	1.6040E-01				
04	FEEBRIS1D-8 075-076	DO		1	12.47	8.02E-02	2.0000E+00	1.6040E-01				
05	FEEBRIS1D-8 090-091	TRG					2.5710E-01	2.5710E-01				
06	FEEBRIS1D-4 061-062	TRG					1.0350E-01	1.0350E-01				
07	FEEBRIS1D-4 064-065	TRG					2.5430E-01	2.5430E-01				
08	FEEBRIS1D-20 080-081	TRG					1.6840E-01	1.6840E-01				
09	DUPLICATE 5	TRG					2.5070E-01	2.5070E-01				
10	FEEBRIS1D-20 089-090	TRG					1.0200E-01	1.0200E-01				
11	FEEBRIS1D-7 084-085	TRG		1	698.32	1.43E-03	1.0000E+00	1.4320E-03				

Comments	

28000

Technician: JWolfe Date: 8/12/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-08002
	Fraction	**> 03 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.02**	ml	from the original sample and diluted it to	**100**	ml	0.0802
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0802**
Dilution Factor	**12.46882793**

38003

Diluted by: _____ Date: 8/12/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-08002
	Fraction	**> 04 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.02**	ml	from the original sample and diluted it to	**100**	ml	0.0802
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0802**
Dilution Factor	**12.46882793**

00084

Diluted by: JW Date: 8/12/15

EBERLINE SERVICES	Internal Work Order	15-08002
	Fraction	> 11 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**0.1432**	ml	from the original sample and diluted it to	**100**	ml	0.0014
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.001432**
Dilution Factor	**698.3240223**

00085

Diluted by: JW Date: 8/12/15

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 8/4/2015 7:24 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-08002	grams	8/25/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-8 075-076	103.0300	111.0500		8.0200		
05	FEEBRIS1D-8 090-091						
06	FEEBRIS1D-4 061-062						
07	FEEBRIS1D-4 064-065						
08	FEEBRIS1D-20 080-081						
09	DUPLICATE 5						
10	FEEBRIS1D-20 089-090						
11	FEEBRIS1D-7 084-085						

Comments

98000

Technician: Kenny Sallings Date: 8/4/15

Analysis: UUISO

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 8/4/2015 7:03 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-08002	8/25/2015	8/3/2015	8/4/2015	8/5/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-8 075-076	29.1400	1285.8400	939.6200	1256.7000	910.4800	27.55%	72.45%			
05	FEEBRIS1D-8 090-091	14.5200	1361.5600	1123.6600	1347.0400	1109.1400	17.66%	82.34%			
06	FEEBRIS1D-4 061-062	28.9300	1585.4000	1326.6400	1556.4700	1297.7100	16.62%	83.38%			
07	FEEBRIS1D-4 064-065	29.0900	1146.8400	987.6800	1117.7500	958.5900	14.24%	85.76%			
08	FEEBRIS1D-20 080-081	29.0500	1884.4500	1712.7000	1855.4000	1683.6500	9.26%	90.74%			
09	DUPLICATE 5	29.3000	1915.5000	1753.4000	1886.2000	1724.1000	8.59%	91.41%			
10	FEEBRIS1D-20 089-090	29.0600	1419.9000	1184.3000	1390.8400	1155.2400	16.94%	83.06%			
11	FEEBRIS1D-7 084-085	14.5600	643.0500	530.1000	628.4900	515.5400	17.97%	82.03%			

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

15-08002

Technician: Kenny Sallings Date: **Analysis: Rough Prep Logbook**

KB 8/18/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 126359
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/17/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:51 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.2147 +/- 0.0117
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 1.1100 +/- 0.0636

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 0.678274 +/- 0.053149
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.214	408.81	9.71	1.19	0.00E+000	36.4
U-234		4.674	405.66	9.74	0.34	0.00E+000	23.0
U-235		4.388	33.83	33.80	0.17	0.00E+000	6.8
U-238		4.104	443.66	9.31	0.34	0.00E+000	46.3

T = Tracer Peak used for Effective Efficiency

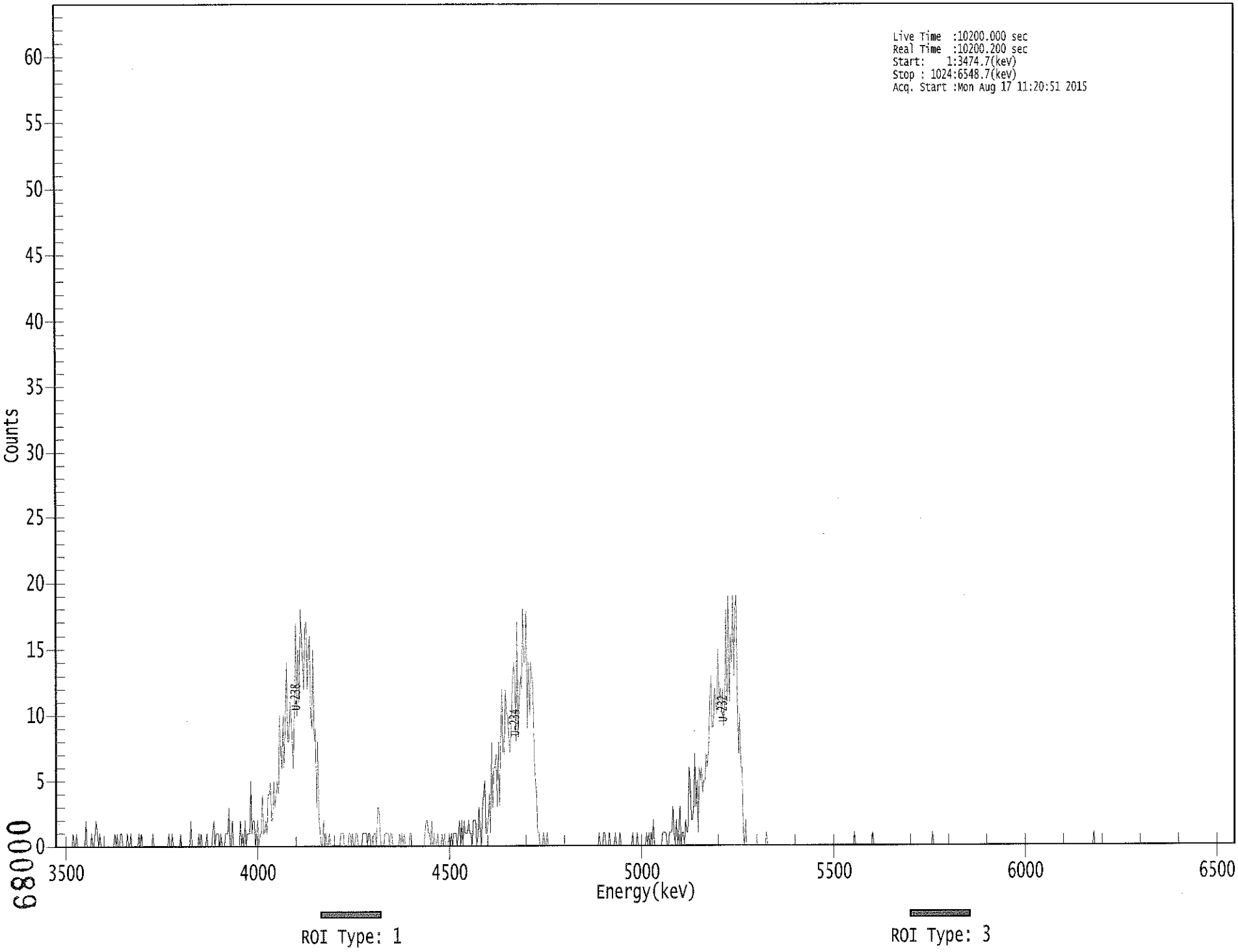
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.946	5302.50*	5.06E+000 +/- 5.41E-001	8.15E-002 +/- 8.72E-003
U-234	0.948	4761.50*	5.02E+000 +/- 7.26E-001	5.91E-002 +/- 6.33E-003
U-235	1.000	4385.50*	5.16E-001 +/- 1.83E-001	6.37E-002 +/- 6.82E-003
U-238	0.955	4184.40*	5.46E+000 +/- 7.75E-001	5.89E-002 +/- 6.30E-003

AG 8/18/15

00088

0000126199.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	1
17:	0	0	1	0	0	0	0	0
25:	0	0	2	0	0	0	0	1
33:	0	0	1	2	1	0	1	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	1	0	0
57:	1	1	0	0	0	0	1	0
65:	0	1	0	0	0	0	0	0
73:	1	0	1	0	0	0	0	0
81:	0	0	0	0	1	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	1	0	0	1	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	2	0	0
121:	0	0	0	0	1	0	1	0
129:	0	0	0	1	0	0	0	0
137:	1	2	0	1	1	1	0	1
145:	0	0	0	1	1	1	3	0
153:	0	2	0	0	0	0	0	0
161:	2	0	1	0	2	0	1	1
169:	1	5	1	2	2	0	1	2
177:	0	1	1	4	1	1	2	1
185:	4	4	5	2	2	5	3	4
193:	5	4	10	7	6	10	6	10
201:	14	8	8	11	10	8	6	11
209:	17	10	15	11	18	16	14	12
217:	17	17	12	15	16	10	9	15
225:	8	9	3	8	2	1	0	0
233:	2	0	1	0	0	1	0	0
241:	0	0	0	0	0	0	0	1
249:	1	1	0	0	0	0	1	1
257:	0	1	0	0	1	1	0	0
265:	0	0	1	1	1	1	0	1
273:	1	0	0	0	1	1	0	3
281:	3	1	0	0	0	1	1	1
289:	1	0	1	1	0	0	0	0
297:	0	0	1	0	1	0	1	0
305:	0	0	0	1	1	0	0	0
313:	0	0	0	0	0	0	0	0
321:	1	2	2	1	1	0	2	0
329:	1	0	0	1	0	0	0	1
337:	0	1	0	0	0	1	0	1
345:	0	1	1	1	0	1	2	0
353:	2	0	2	1	1	1	2	1
361:	1	0	2	2	2	0	1	3

369:	1	0	3	4	5	1	1	2

Sample Title: 01

Channel								
377:	4	1	8	3	6	6	7	3
385:	8	3	8	12	7	7	12	10
393:	10	8	7	9	12	14	13	8
401:	17	8	11	13	12	18	14	14
409:	18	9	14	10	14	13	12	7
417:	5	4	1	1	0	0	0	1
425:	0	0	1	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	1	1	0	0	0
481:	1	0	0	0	0	1	0	0
489:	0	1	0	0	0	0	0	0
497:	0	0	0	0	1	0	0	0
505:	1	0	0	0	0	0	0	0
513:	1	0	1	0	1	0	2	0
521:	0	0	0	0	0	0	1	1
529:	1	1	0	0	1	1	1	3
537:	1	0	2	0	1	3	0	1
545:	1	0	2	1	1	6	5	2
553:	2	3	7	3	5	1	6	5
561:	6	4	5	5	7	6	8	11
569:	13	9	9	12	11	10	15	11
577:	12	10	12	9	11	18	11	19
585:	11	16	14	19	13	18	19	11
593:	7	10	6	6	1	0	2	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	1	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	1	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	1	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	1	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	1	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

LCB 9/17/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 126360
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/17/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:53 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.0214 +/- 0.0034
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 0.1152 +/- 0.0185

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.280	40.66	30.89	0.34	0.00E+000	3.7
U-234		4.747	0.83	239.53	0.17	0.00E+000	3.0
U-235		4.397	0.00	1960.0	0.00	0.00E+000	0.0
U-238		4.145	1.00	277.19	0.00	0.00E+000	3.0

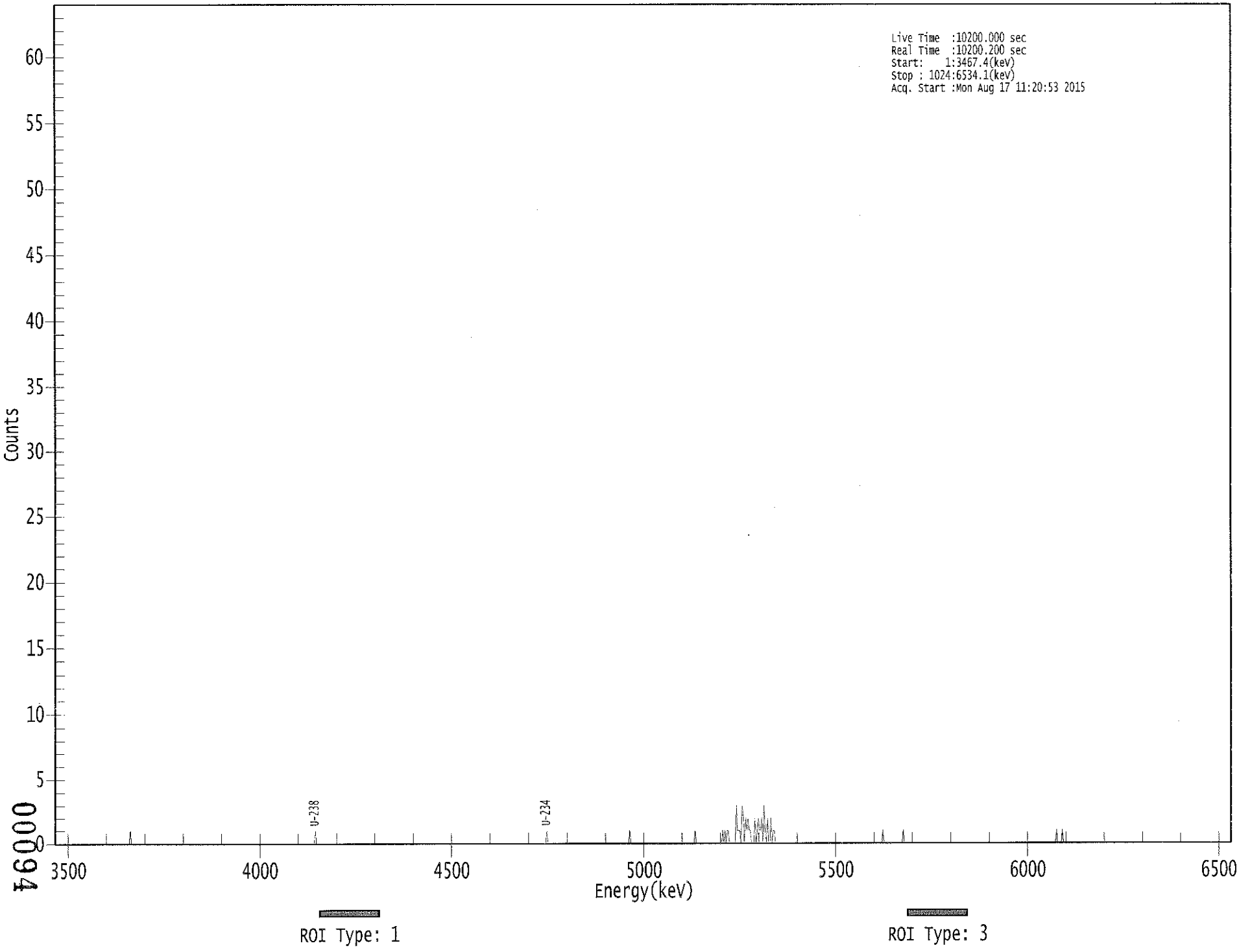
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	5.05E+000 +/- 1.58E+000	5.94E-001 +/- 1.85E-001
U-234	0.999	4761.50*	1.03E-001 +/- 2.49E-001	5.18E-001 +/- 1.62E-001
U-235	0.999	4385.50*	0.00E+000 +/- 4.25E-001	9.18E-001 +/- 2.87E-001
U-238	0.989	4184.40*	1.24E-001 +/- 3.45E-001	7.41E-001 +/- 2.31E-001

AG 8/18/15

0000126200.CNF



00094

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	1	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	1	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	1	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	1	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	1	0	1	0
585:	1	1	0	0	0	0	0	0
593:	3	1	1	1	0	3	2	0
601:	2	1	2	1	1	0	0	0
609:	2	0	1	2	1	1	2	0
617:	3	1	0	2	0	0	2	0
625:	1	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	1
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	1	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	1	0
873:	0	0	0	1	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

LCD 8/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 075-076-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 126361
Reagent Blank: <not performed>

Sample Size: 1.604E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:56 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1109 +/- 0.0081
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 0.5923 +/- 0.0442

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.279	210.83	13.51	0.17	0.00E+000	8.1
U-234		4.751	0.47	626.93	1.53	0.00E+000	3.0
U-235		4.397	-0.51	400.63	0.51	0.00E+000	0.0
U-238		4.170	2.45	186.48	2.55	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	3.15E+001 +/- 4.48E+000	6.23E-001 +/- 8.87E-002
U-234	0.999	4761.50*	7.01E-002 +/- 4.40E-001	1.06E+000 +/- 1.51E-001
U-235	0.999	4385.50*	-9.39E-002 +/- 3.76E-001	9.66E-001 +/- 1.38E-001
U-238	0.998	4184.40*	3.64E-001 +/- 6.81E-001	1.25E+000 +/- 1.77E-001

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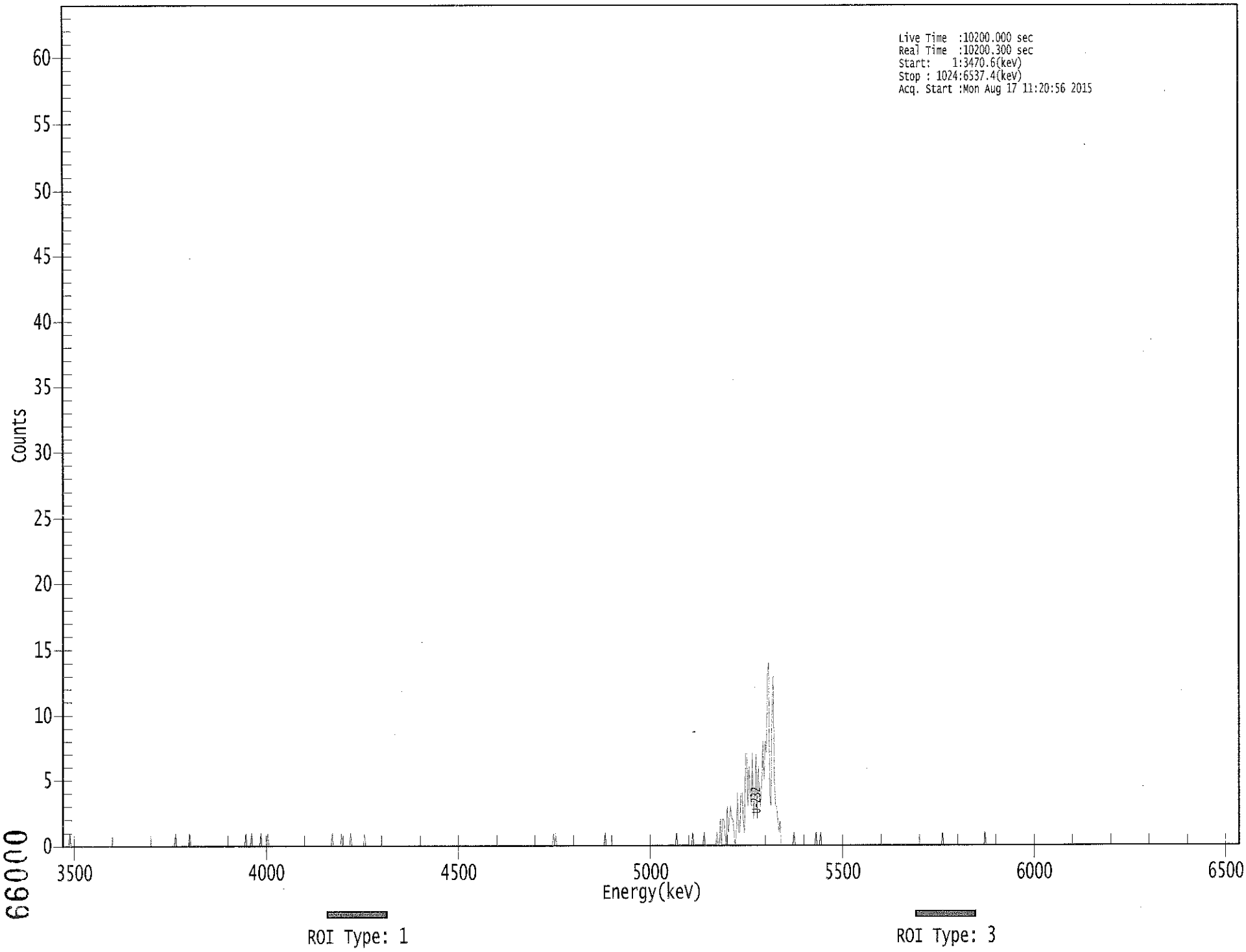
0000126205.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	1	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	1	0	0	0	0	0
105:	0	0	0	0	0	0	1	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	0	0	1	0	0	0
169:	0	0	0	0	1	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	1	0	0	0	0	0
241:	0	0	1	0	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	0	0	0	1	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	1	0	1	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	1	0	0	0	0
553:	0	0	0	0	0	1	0	0
561:	0	0	0	0	0	0	0	0
569:	1	0	0	2	0	2	2	1
577:	0	3	1	2	3	2	2	1
585:	0	1	4	1	1	4	4	2
593:	1	7	7	3	6	4	3	7
601:	2	4	7	2	6	4	3	5
609:	8	5	8	7	13	14	4	3
617:	10	13	5	3	3	2	1	2
625:	0	0	0	0	0	0	0	0
633:	0	0	0	1	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	1	0
657:	0	0	1	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	1	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	1	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

ICB 9/17/15

Sample Description: FEEBRIS1D-8 075-076
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 126362
Reagent Blank: <not performed>

Sample Size: 1.604E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:59 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1966 +/- 0.0112
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 1.1318 +/- 0.0672

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.278	372.98	10.16	1.02	0.00E+000	16.9
U-234		4.725	7.83	70.93	0.17	0.00E+000	3.0
U-235		4.379	2.49	138.29	0.51	0.00E+000	3.0
U-238		4.139	6.98	80.28	1.02	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	3.14E+001 +/- 3.49E+000	5.31E-001 +/- 5.90E-002
U-234	0.991	4761.50*	6.59E-001 +/- 4.73E-001	3.51E-001 +/- 3.91E-002
U-235	1.000	4385.50*	2.59E-001 +/- 3.59E-001	5.45E-001 +/- 6.06E-002
U-238	0.985	4184.40*	5.85E-001 +/- 4.74E-001	5.28E-001 +/- 5.87E-002

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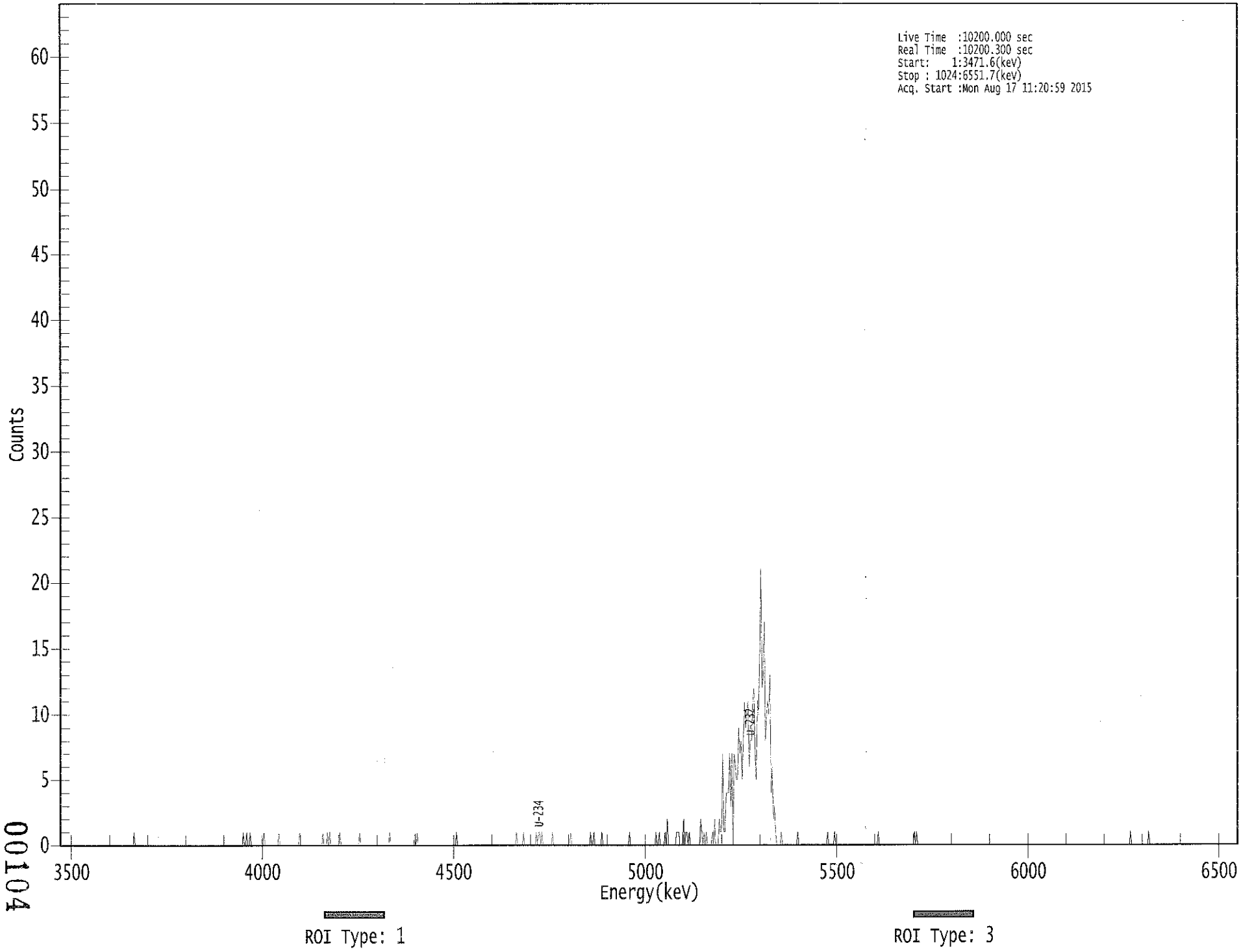
0000126206.CNF



001104

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	1	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	1	0	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	1	0	0	0	0	0	0
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	1	0	0	0
233:	1	0	1	0	0	0	0	0
241:	0	0	0	1	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	1	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	1	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	1	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	1	0	0	0
401:	0	0	1	0	0	0	0	0
409:	0	0	0	0	0	1	0	1
417:	1	0	1	0	0	0	0	0
425:	0	0	0	1	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	1	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	1	0	0	1
465:	0	0	0	0	0	0	1	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	1	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	1	0	0
521:	1	0	0	0	0	1	0	2
529:	0	0	0	0	0	0	0	1
537:	1	1	0	0	0	2	0	1
545:	1	0	1	0	0	0	0	0
553:	0	0	0	0	2	1	0	1
561:	0	1	0	0	0	0	1	0
569:	2	0	0	0	2	1	1	7
577:	1	1	4	4	4	7	3	7
585:	0	7	6	5	5	9	7	8
593:	5	8	11	9	10	11	6	8
601:	8	11	12	7	5	11	10	15
609:	21	12	13	17	8	10	11	10
617:	13	4	6	2	3	1	0	0
625:	0	0	1	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	1	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	1	0	0	0	0	0
673:	1	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	1	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	1	0	1
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	1	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	1	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 9/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 090-091
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 126363
Reagent Blank: <not performed>

Sample Size: 2.571E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:01 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1454 +/- 0.0094
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.7275 +/- 0.0486

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.282	275.66	11.81	0.34	0.00E+000	5.7
U-234		4.734	12.66	55.94	0.34	0.00E+000	6.0
U-235		4.376	2.83	120.53	0.17	0.00E+000	3.0
U-238		4.158	11.66	58.37	0.34	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.997	5302.50*	1.96E+001 +/- 2.48E+000	3.40E-001 +/- 4.30E-002
U-234	0.995	4761.50*	8.99E-001 +/- 5.16E-001	3.40E-001 +/- 4.29E-002
U-235	0.999	4385.50*	2.48E-001 +/- 3.01E-001	3.66E-001 +/- 4.62E-002
U-238	0.995	4184.40*	8.25E-001 +/- 4.93E-001	3.38E-001 +/- 4.28E-002

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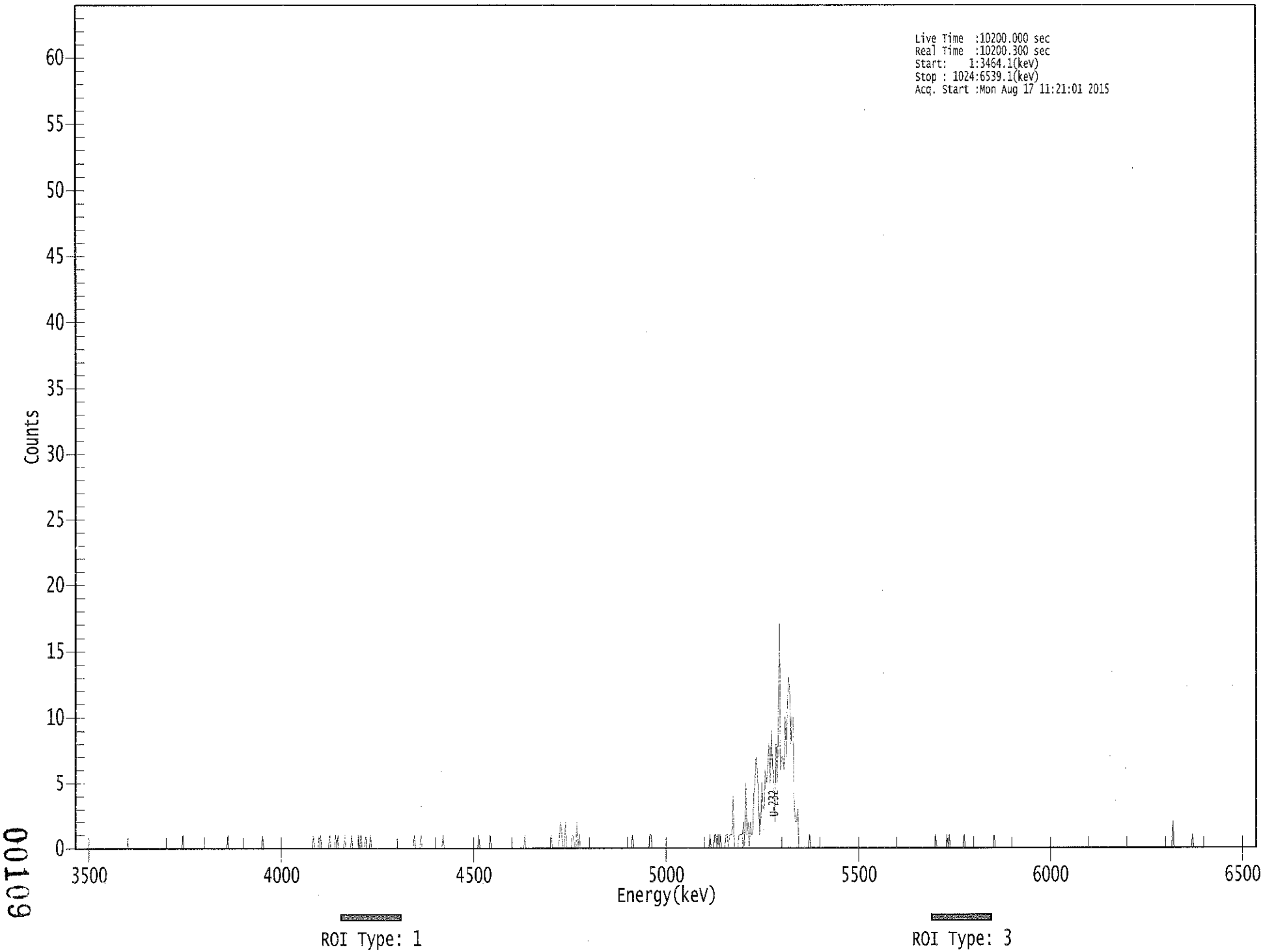
0000126201.CNF



60100

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	1	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	1	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	1	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	1	0
209:	0	0	0	1	1	0	0	0
217:	0	0	0	0	1	0	0	0
225:	0	1	0	1	0	0	0	0
233:	0	1	0	0	0	0	0	1
241:	0	0	0	0	0	1	0	1
249:	0	0	0	1	0	0	0	1
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	1	0	0
297:	0	0	0	1	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	1	0	0
353:	0	0	0	0	0	0	0	1
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	1	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	1	0	0	0
417:	0	0	0	1	2	1	0	0
425:	2	0	0	0	0	0	1	1
433:	0	0	2	0	1	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	1	1	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	1	0	0
553:	0	1	1	0	1	0	1	0
561:	0	0	0	1	1	0	1	1
569:	1	4	0	0	0	0	1	1
577:	1	1	2	0	5	1	2	0
585:	2	1	1	4	5	7	6	4
593:	1	2	5	3	3	6	5	6
601:	8	5	9	6	6	2	8	5
609:	9	17	6	7	7	6	10	7
617:	11	13	12	8	10	10	3	2
625:	2	3	0	0	0	0	0	0
633:	0	0	0	1	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	1	0	0	0	0	0	0	0
753:	0	0	1	0	1	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	1	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	1	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	2	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 8/17/15

Sample Description: FEEBRIS1D-4 061-062
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 126364
Reagent Blank: <not performed>

Sample Size: 1.035E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:03 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1962 +/- 0.0111
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.0682 +/- 0.0635

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.286	371.66	10.17	0.34	0.00E+000	30.7
U-234		4.742	21.66	42.50	0.34	0.00E+000	3.0
U-235		4.431	2.00	169.74	0.00	0.00E+000	3.0
U-238		4.137	21.32	43.23	0.68	0.00E+000	3.0

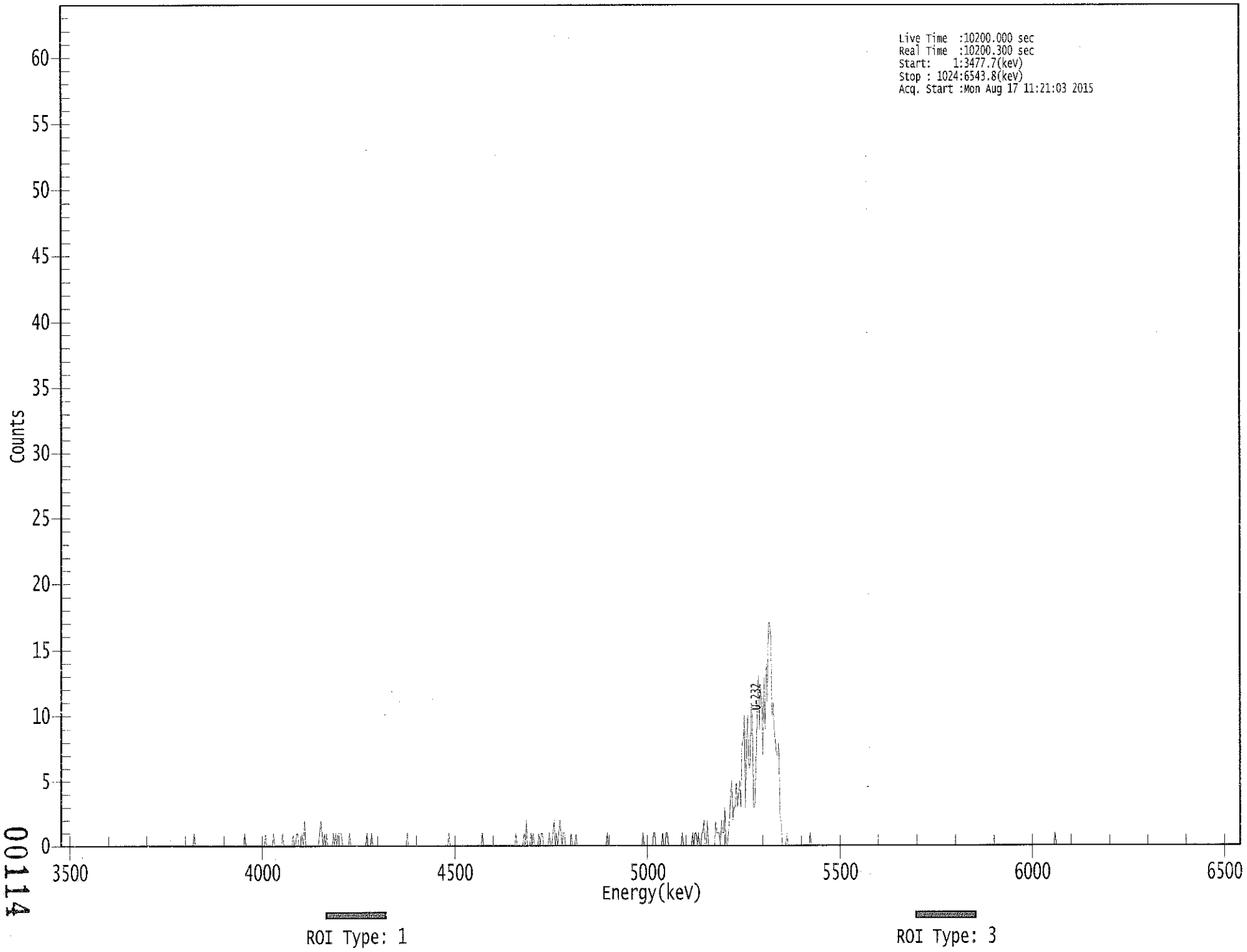
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	4.86E+001 +/- 5.41E+000	6.25E-001 +/- 6.96E-002
U-234	0.997	4761.50*	2.83E+000 +/- 1.24E+000	6.25E-001 +/- 6.96E-002
U-235	0.986	4385.50*	3.23E-001 +/- 5.49E-001	9.67E-001 +/- 1.08E-001
U-238	0.984	4184.40*	2.78E+000 +/- 1.24E+000	7.34E-001 +/- 8.17E-002

AG 8/18/15

0000126202.CNF



00114

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	1	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	1	0	0	0	0	0	0
185:	1	0	0	0	0	0	0	0
193:	1	0	0	0	0	0	0	0
201:	0	1	0	0	1	1	0	0
209:	0	1	0	2	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	1	2	1	0	1	0	1	0
233:	0	0	0	0	1	0	1	0
241:	1	1	1	1	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	1	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	1	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	1	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	1	0	0	0	0	0
401:	0	1	0	2	0	0	0	1
409:	0	1	0	0	0	0	1	0
417:	1	1	0	0	0	0	0	1
425:	0	0	1	2	0	1	0	1
433:	2	1	0	1	1	0	0	0
441:	0	0	1	0	0	0	1	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	1	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	1	0	0	0	0	0	0	0
513:	0	1	1	0	0	0	0	0
521:	0	1	0	0	1	1	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	1	0	0	0	0	0
545:	0	0	0	1	0	1	1	0
553:	1	0	0	1	1	2	0	0
561:	2	0	0	0	0	0	0	2
569:	1	1	1	0	2	1	1	3
577:	0	0	1	2	4	5	2	3
585:	3	5	3	4	5	3	8	8
593:	10	3	8	10	6	6	11	10
601:	3	3	6	10	13	9	12	11
609:	7	13	9	14	11	17	17	16
617:	10	11	9	8	7	7	8	2
625:	2	0	0	0	0	1	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	1	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	1	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KCB 8/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-4 064-065
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_045
Chamber Serial Number: 04026482A
Detector Serial Number: 91131
Env. Background: System Bkgd 126365
Reagent Blank: <not performed>

Sample Size: 2.543E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:06 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.600 mL
Effective Efficiency: 0.1718 +/- 0.0103
Counting Efficiency: 0.1760 +/- 0.0031 on 10/25/2014 3:16:42 PM
Chem. Recovery Factor: 0.9758 +/- 0.0612

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.297	324.98	10.89	1.02	0.00E+000	4.5
U-234		4.734	23.32	41.27	0.68	0.00E+000	3.7
U-235		4.403	5.00	96.02	0.00	0.00E+000	3.0
U-238		4.164	29.49	36.46	0.51	0.00E+000	6.0

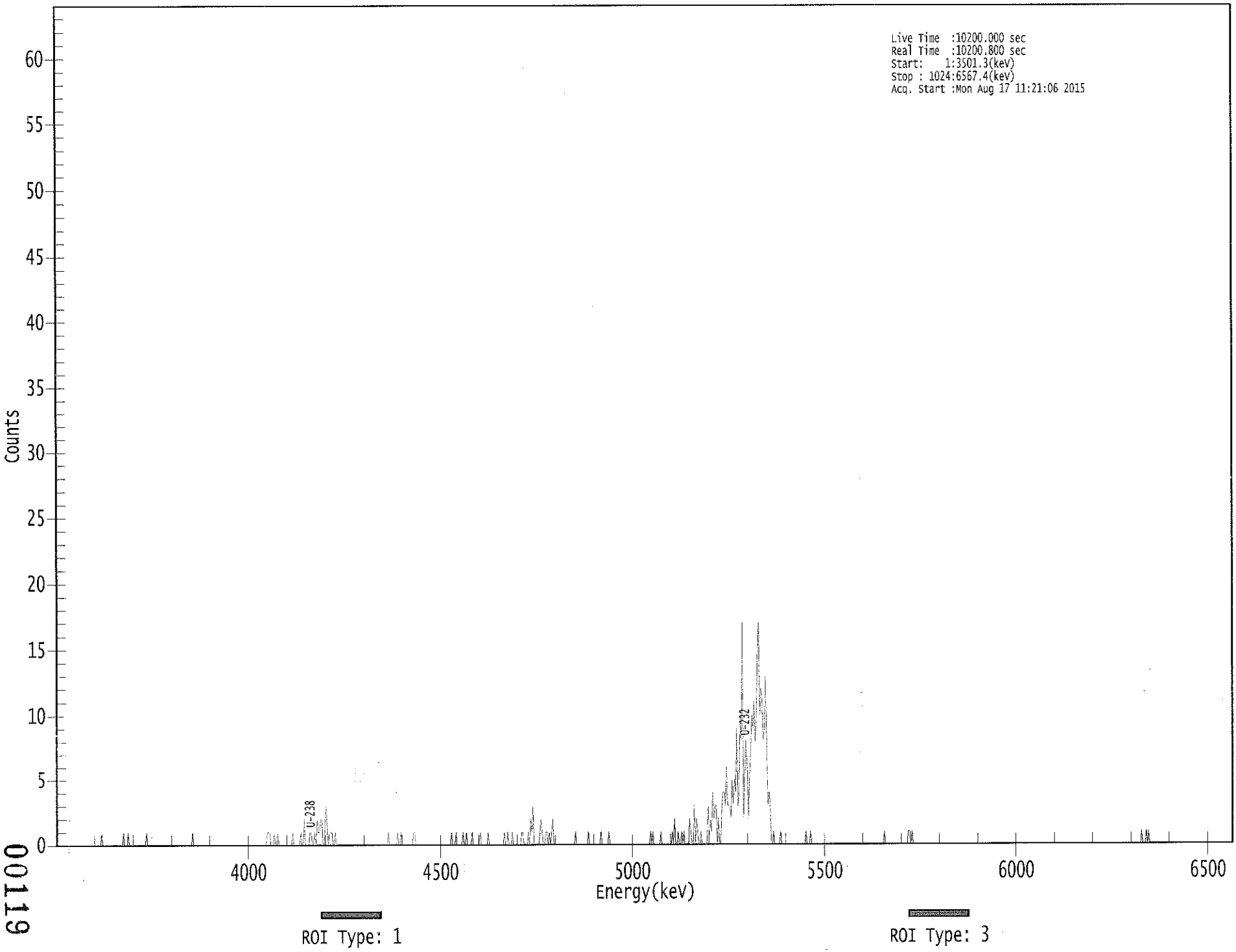
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	1.000	5302.50*	1.98E+001 +/- 2.33E+000	3.83E-001 +/- 4.52E-002
U-234	0.995	4761.50*	1.42E+000 +/- 6.08E-001	3.43E-001 +/- 4.04E-002
U-235	0.998	4385.50*	3.75E-001 +/- 3.63E-001	4.50E-001 +/- 5.30E-002
U-238	0.997	4184.40*	1.78E+000 +/- 6.84E-001	3.18E-001 +/- 3.74E-002

AG 8/18/15

0000126196.CNF



001119

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	1
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	1	0	0	0	1	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	1	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	1	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	1
185:	1	1	0	0	0	1	0	0
193:	1	0	0	0	0	0	0	0
201:	0	0	0	0	0	1	0	0
209:	0	0	0	0	1	0	0	2
217:	0	0	0	0	1	1	0	0
225:	1	0	2	1	1	2	2	0
233:	0	2	3	1	0	1	1	1
241:	0	0	1	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	1	0	0	0	0	0	0	0
297:	1	0	0	1	0	0	0	0
305:	0	0	0	0	0	0	1	1
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	1
345:	0	0	0	1	0	0	0	0
353:	0	1	0	0	1	0	0	0
361:	0	1	0	0	0	0	0	0

369:	1	0	0	0	0	0	0	1

Sample Title: 07

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	1	0	0
393:	1	0	0	0	1	0	0	0
401:	0	0	0	0	1	1	0	0
409:	0	0	1	0	2	1	3	0
417:	0	0	0	0	1	2	1	0
425:	0	1	1	0	1	0	1	2
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	1	0	0	0	0
457:	0	0	0	0	0	0	1	0
465:	0	0	0	0	0	0	0	0
473:	0	1	0	0	0	0	0	0
481:	1	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	1	0	1	0
521:	0	0	0	0	0	1	0	0
529:	0	0	0	0	0	0	0	1
537:	0	2	0	0	1	0	0	1
545:	0	1	0	0	0	0	2	1
553:	0	0	3	0	2	1	0	0
561:	1	0	0	0	0	0	3	0
569:	2	1	4	2	3	3	0	2
577:	0	0	3	4	4	3	6	3
585:	3	3	2	5	3	5	4	9
593:	3	4	10	8	17	2	6	8
601:	6	2	5	7	10	9	11	8
609:	10	15	17	10	12	11	8	9
617:	13	8	3	4	3	0	0	1
625:	0	0	0	0	0	1	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	1	0	0	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	1
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	1	1	0	1
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	1
945:	0	0	0	1	0	1	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KD 8/17/15

Sample Description: FEEBRIS1D-20 080-081
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 126366
Reagent Blank: <not performed>

Sample Size: 1.684E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:08 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.2009 +/- 0.0113
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 1.1312 +/- 0.0668

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.276	380.79	10.08	2.21	0.00E+000	10.1
U-234		4.719	24.47	41.05	1.53	0.00E+000	3.0
U-235		4.390	1.45	284.62	2.55	0.00E+000	3.0
U-238		4.147	11.96	62.07	2.04	0.00E+000	4.5

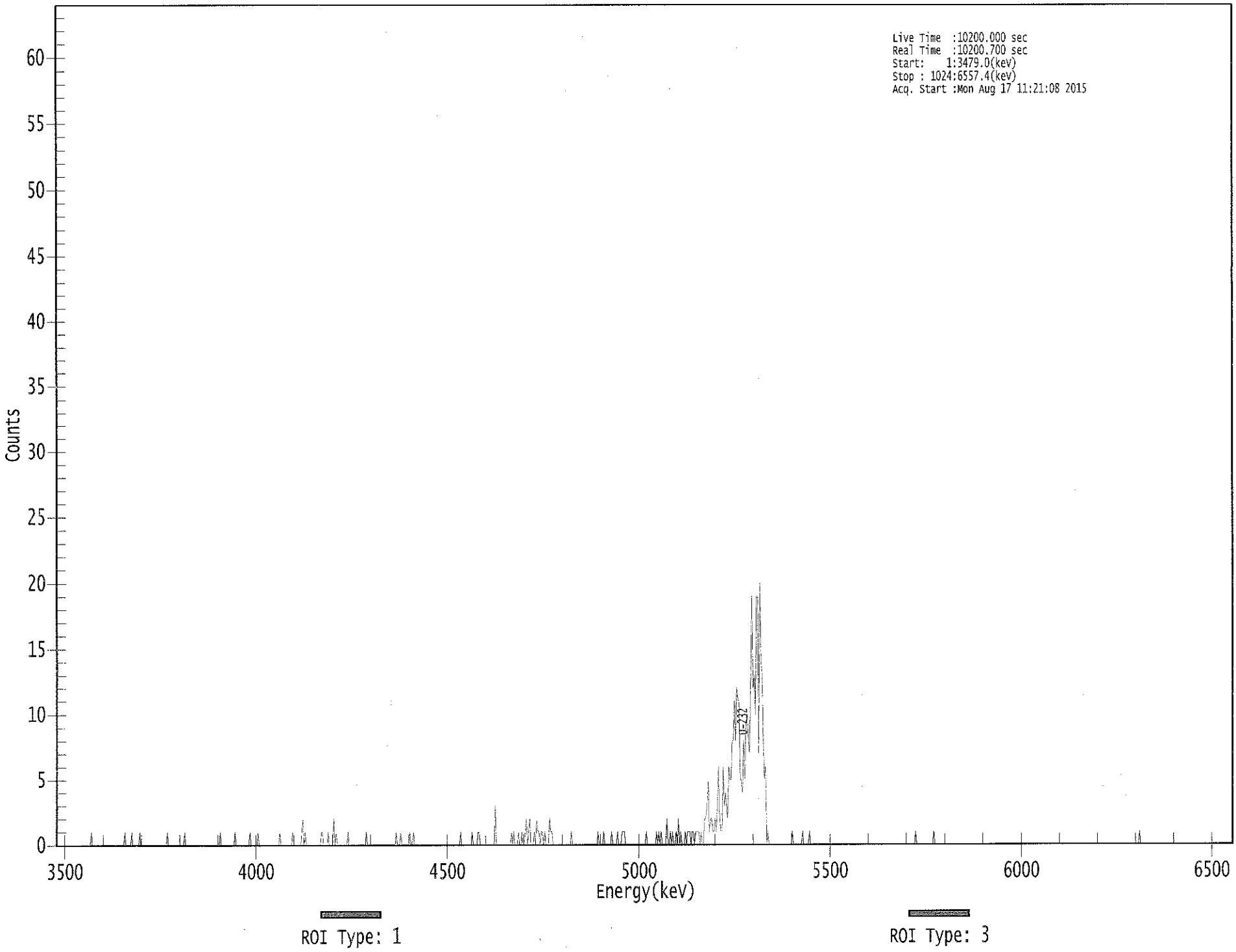
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	2.99E+001 +/- 3.30E+000	6.28E-001 +/- 6.93E-002
U-234	0.987	4761.50*	1.92E+000 +/- 8.16E-001	5.58E-001 +/- 6.16E-002
U-235	1.000	4385.50*	1.40E-001 +/- 4.00E-001	8.12E-001 +/- 8.97E-002
U-238	0.990	4184.40*	9.34E-001 +/- 5.89E-001	6.09E-001 +/- 6.72E-002

AG 8/18/15

0000126197.CNF



00124

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	1	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	1	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	1	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	1	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	1
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	1	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	1	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	1	0	0	0	0	0	0	1
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	0	0	0	0	0	1	0	0
209:	0	0	0	0	0	1	2	0
217:	1	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	1	1
233:	0	0	0	0	1	0	0	0
241:	0	2	0	1	0	0	0	0
249:	0	0	0	0	0	1	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	1
297:	0	0	0	1	0	0	0	0
305:	0	0	0	1	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	1
353:	0	0	0	0	0	0	0	0
361:	0	1	0	0	0	0	1	1

369:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
377:	0	0	0	0	0	3	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	1	0	1	0	0
401:	0	1	0	0	1	0	0	1
409:	2	0	1	2	0	0	0	1
417:	0	2	1	1	0	1	1	0
425:	1	0	0	0	2	1	1	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	1
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	1	0
473:	0	0	0	1	0	0	0	0
481:	0	0	1	0	0	0	0	1
489:	0	0	0	1	1	1	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	1	0	0	0	0	0	0	0
521:	0	1	0	1	0	1	0	0
529:	0	0	2	0	0	1	0	1
537:	0	0	1	0	2	0	1	0
545:	0	0	1	0	1	1	1	0
553:	1	1	0	1	1	1	1	0
561:	1	0	0	2	2	3	5	1
569:	2	2	1	1	2	1	3	6
577:	2	1	1	6	3	4	3	2
585:	6	5	5	8	8	11	8	12
593:	11	11	5	5	4	8	5	9
601:	10	8	7	13	19	12	13	10
609:	19	19	7	20	14	13	8	5
617:	6	0	1	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	1
641:	0	0	0	0	0	0	0	0
649:	1	0	0	0	0	0	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	1	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	1	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	1	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

ICB 8/19/15

Apex-Alpha™

Sample Description: DUPLICATE 5
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_047
Chamber Serial Number: 02030596A
Detector Serial Number: 91086
Env. Background: System Bkgd 126367
Reagent Blank: <not performed>

Sample Size: 2.507E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:11 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.600 mL
Effective Efficiency: 0.1605 +/- 0.0099
Counting Efficiency: 0.1650 +/- 0.0029 on 10/25/2014 3:23:35 PM
Chem. Recovery Factor: 0.9724 +/- 0.0626

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.272	303.66	11.26	0.34	0.00E+000	6.6
U-234		4.719	31.83	34.85	0.17	0.00E+000	5.9
U-235		4.359	5.83	82.55	0.17	0.00E+000	3.0
U-238		4.144	15.83	49.57	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

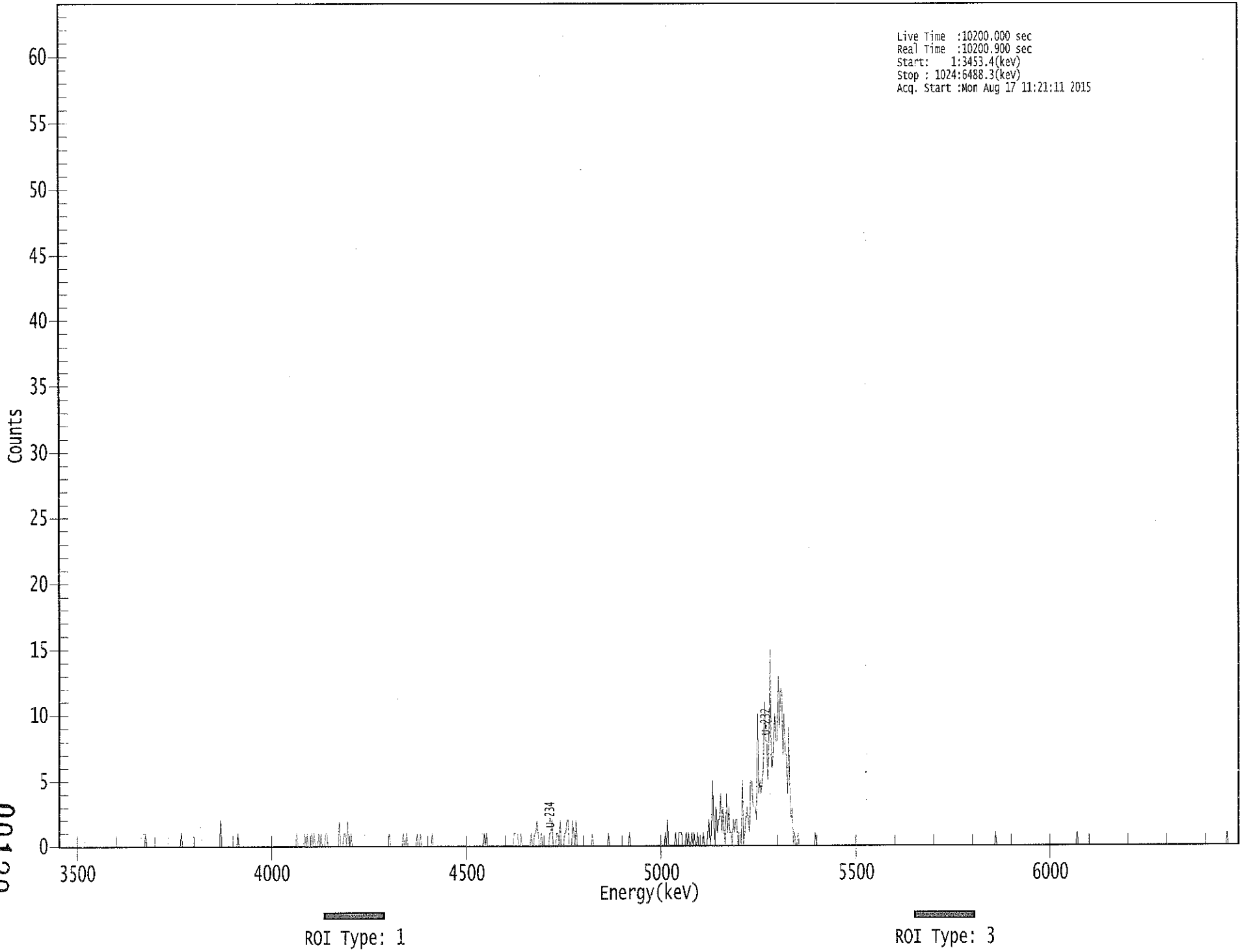
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.994	5302.50*	2.00E+001 +/- 2.43E+000	3.16E-001 +/- 3.83E-002
U-234	0.987	4761.50*	2.10E+000 +/- 7.75E-001	2.75E-001 +/- 3.34E-002
U-235	0.995	4385.50*	4.75E-001 +/- 3.96E-001	3.40E-001 +/- 4.12E-002
U-238	0.988	4184.40*	1.04E+000 +/- 5.31E-001	2.74E-001 +/- 3.32E-002

AG 8/18/15

00128

0000126203.CNF



00129

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	1	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	2	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	1	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	1	0
209:	0	0	0	0	0	1	0	1
217:	0	0	0	1	0	1	0	0
225:	0	1	0	1	0	0	0	1
233:	1	0	0	0	0	0	0	0
241:	0	0	0	2	0	0	0	1
249:	1	0	2	0	0	1	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	1	0	0	1	0	0
305:	0	0	0	0	0	0	1	0
313:	0	1	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	1	0	1	0	0	0	0	0

Sample Title: 09

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	1	1	1	1	0	0
401:	1	0	0	0	0	0	0	0
409:	0	1	0	0	1	1	2	1
417:	0	0	1	0	0	0	0	0
425:	0	1	1	2	0	0	0	1
433:	1	0	2	0	0	0	1	1
441:	2	2	0	0	0	2	1	0
449:	2	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	1	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	1	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	1	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	2
529:	0	0	0	0	0	0	1	0
537:	0	1	1	1	0	0	0	1
545:	0	1	0	0	1	0	1	0
553:	0	1	0	0	0	0	1	0
561:	0	0	1	2	0	1	5	2
569:	0	3	1	2	2	4	1	3
577:	1	0	4	1	3	1	1	0
585:	2	1	2	2	0	1	1	0
593:	5	0	1	2	3	2	1	5
601:	5	3	3	3	2	10	4	5
609:	4	5	6	11	8	8	5	9
617:	15	6	6	8	10	8	8	13
625:	9	12	12	7	10	7	7	4
633:	9	4	2	3	0	1	0	0
641:	1	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
809:	0	0	0	1	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	1	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	1	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KD 8/17/15

Sample Description: FEEBRIS1D-20 089-090
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_048
Chamber Serial Number: 02030596B
Detector Serial Number: 83111
Env. Background: System Bkgd 126368
Reagent Blank: <not performed>

Sample Size: 1.020E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:13 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1586 +/- 0.0099
Counting Efficiency: 0.1700 +/- 0.0030 on 10/25/2014 3:27:02 PM
Chem. Recovery Factor: 0.9324 +/- 0.0604

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.278	300.30	11.35	1.70	0.00E+000	31.2
U-234		4.742	20.49	43.93	0.51	0.00E+000	7.4
U-235		4.487	1.66	169.38	0.34	0.00E+000	3.0
U-238		4.146	24.32	40.39	0.68	0.00E+000	3.7

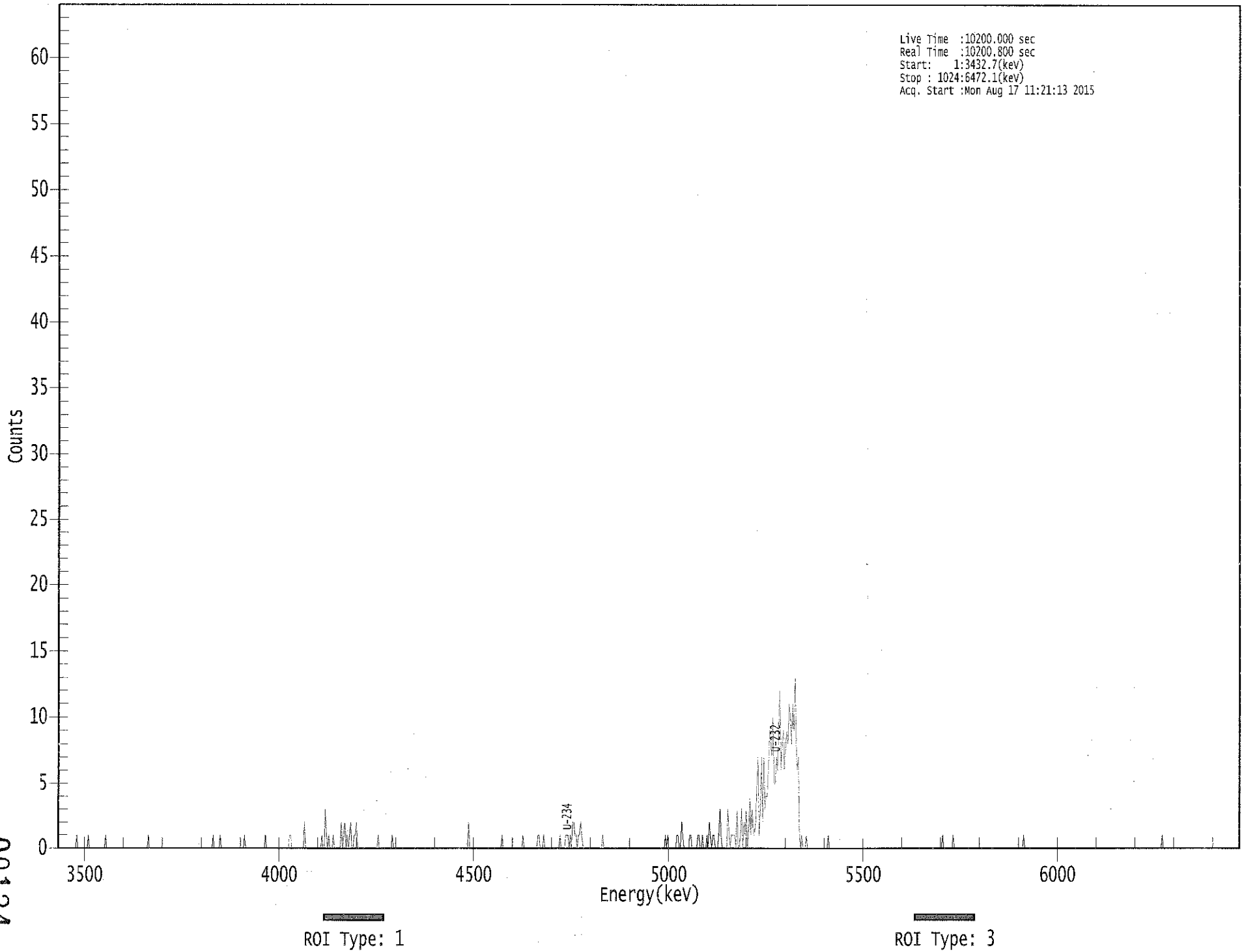
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	4.93E+001 +/- 6.02E+000	1.21E+000 +/- 1.47E-001
U-234	0.997	4761.50*	3.36E+000 +/- 1.53E+000	8.61E-001 +/- 1.05E-001
U-235	0.929	4385.50*	3.36E-001 +/- 5.71E-001	9.68E-001 +/- 1.18E-001
U-238	0.989	4184.40*	3.98E+000 +/- 1.68E+000	9.22E-001 +/- 1.13E-001

AG 8/18/15

0000126204.CNF



001134

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	1	0	0	0	0	0	0	0
25:	0	0	1	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	1	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	1	0
137:	0	0	0	0	1	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	1	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	1	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	1	1	0	0	0	0	0	0
209:	0	0	0	0	0	2	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	1	0	0	3
233:	1	0	1	0	0	0	1	0
241:	0	0	0	0	0	2	0	1
249:	2	0	1	0	1	2	0	0
257:	1	1	2	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	1	0	0
281:	0	0	0	0	0	0	0	0
289:	0	1	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	2	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
377:	0	0	0	0	0	0	0	0
385:	1	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	1	0	0	0	0	0
409:	0	0	0	0	0	0	0	1
417:	1	0	0	0	1	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	1	0	0	0	0	1
441:	1	1	0	1	0	2	2	1
449:	1	0	1	1	2	1	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	1
529:	0	0	0	0	0	0	0	1
537:	1	0	0	2	1	0	0	0
545:	0	0	1	1	0	0	0	0
553:	0	1	1	0	0	1	0	0
561:	0	1	0	2	1	0	1	1
569:	0	0	0	1	3	1	0	0
577:	0	0	0	3	1	0	1	1
585:	1	1	0	3	0	0	1	3
593:	0	2	1	3	0	1	4	1
601:	3	1	1	2	5	7	1	3
609:	7	2	7	3	4	4	6	9
617:	8	7	10	5	5	7	6	10
625:	12	6	8	9	6	8	9	8
633:	11	10	8	11	9	13	8	6
641:	7	1	0	1	0	0	0	1
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	1	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	1	0	0
769:	0	0	0	0	0	0	1	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	1	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KG 9/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-7 084-085
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 11
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_049
Chamber Serial Number: 10006121A
Detector Serial Number: 49
Env. Background: System Bkgd 126369
Reagent Blank: <not performed>

Sample Size: 1.400E-003 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:33 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1144 +/- 0.0082
Counting Efficiency: 0.1525 +/- 0.0027 on 12/13/2014 2:45:02 PM
Chem. Recovery Factor: 0.7498 +/- 0.0555

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.287	216.66	13.33	0.34	0.00E+000	13.0
U-234		4.745	22.49	41.87	0.51	0.00E+000	3.0
U-235		4.426	2.00	169.74	0.00	0.00E+000	3.0
U-238		4.163	13.49	54.53	0.51	0.00E+000	5.9

T = Tracer Peak used for Effective Efficiency

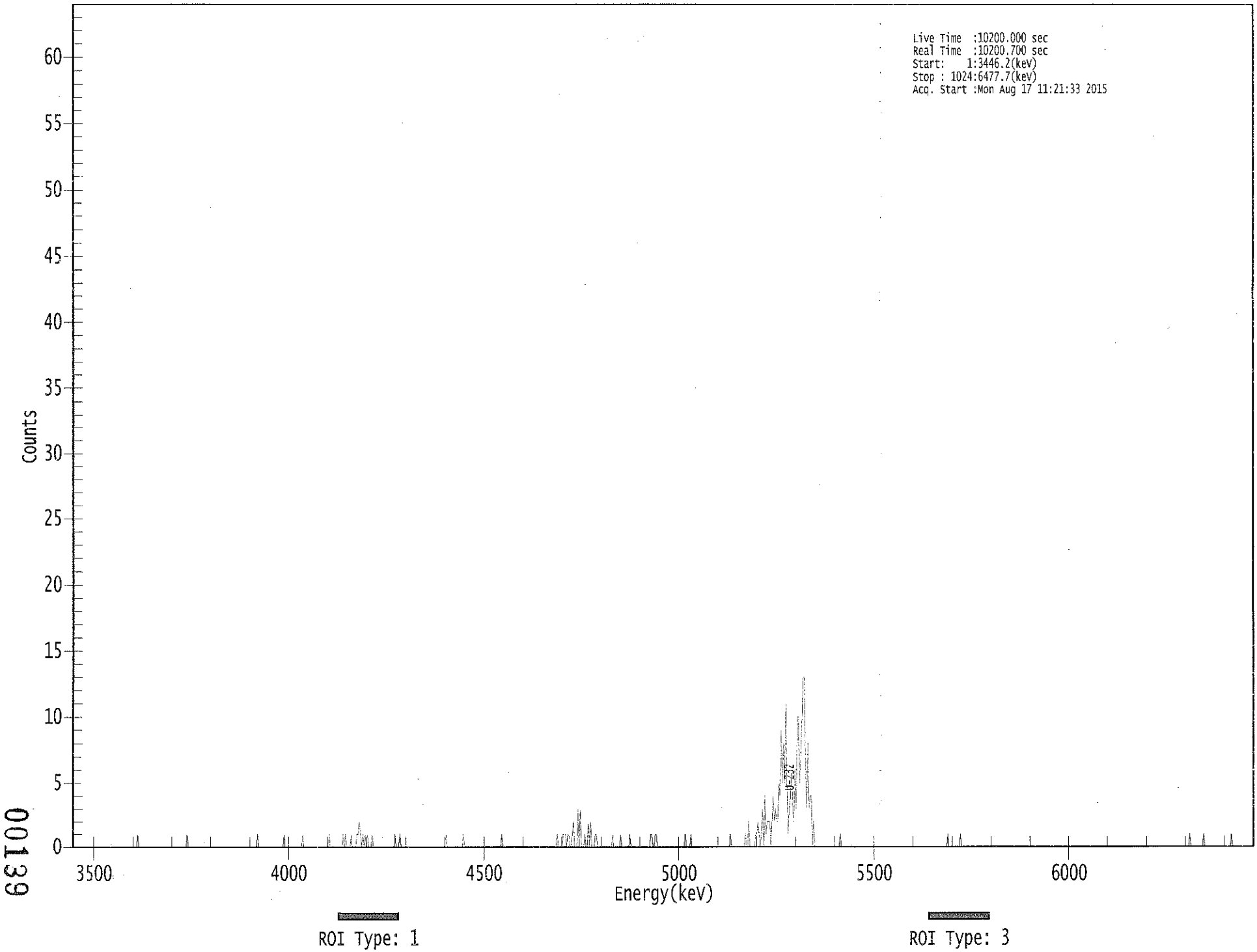
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	3.59E+003 +/- 5.06E+002	7.93E+001 +/- 1.12E+001
U-234	0.998	4761.50*	3.73E+002 +/- 1.65E+002	8.70E+001 +/- 1.22E+001
U-235	0.989	4385.50*	4.09E+001 +/- 6.97E+001	1.23E+002 +/- 1.73E+001
U-238	0.997	4184.40*	2.23E+002 +/- 1.25E+002	8.66E+001 +/- 1.22E+001

KG 8/18/15

00138

0000126198.CNF



00139

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	1	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	1	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	1
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	1	0
225:	0	0	0	0	0	0	0	0
233:	0	0	1	0	1	0	0	0
241:	0	1	0	0	0	0	1	1
249:	2	1	0	1	0	1	0	1
257:	0	0	0	1	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	1
281:	0	0	0	1	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	1	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	1	0	0	0	0

Sample Title: 11

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	1	0	0	0	0
425:	1	1	1	0	1	1	0	0
433:	1	2	0	0	0	3	0	3
441:	0	0	0	1	0	0	2	0
449:	2	0	0	0	1	1	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	1	0	0	0	0
473:	0	0	1	0	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	1	1	0	0
505:	1	1	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	1	0	0	0	0	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	1	0	0	0	0	0	0
577:	0	0	0	0	0	0	1	0
585:	0	2	0	0	0	0	0	1
593:	1	2	1	0	1	3	0	4
601:	1	2	2	2	0	2	4	2
609:	3	2	2	5	4	9	5	8
617:	5	11	5	1	3	4	6	3
625:	2	6	3	10	10	5	7	10
633:	13	13	7	3	8	3	4	4
641:	0	2	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	1	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	1	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	1	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

8/17/2015 5:40:11 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 8/17/2015
Time : 5:40:11 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	8/17/2015 5:17:39 AM
Alpha_004	21f	ALL	Passed	8/17/2015 5:17:40 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	8/17/2015 5:17:40 AM
Alpha_011	21f	ALL	Passed	8/17/2015 5:17:41 AM
Alpha_012	21f	ALL	Passed	8/17/2015 5:17:42 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	8/17/2015 5:17:43 AM
Alpha_015	21f	ALL	Passed	8/17/2015 5:17:44 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:45 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:47 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:49 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:50 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:52 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	8/17/2015 5:17:54 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:56 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:58 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:59 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:01 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:04 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:06 AM
Alpha_045	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:09 AM
Alpha_046	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:13 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:17 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:20 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:24 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:27 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:31 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:34 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:38 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:41 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:45 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:49 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:52 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:56 AM

Review of QA Results - Pulser Check

8/17/2015 5:40:11 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:19:00 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:19:04 AM

APPROVED BY: _____

APPROVAL DATE: 8/17

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

15-08002
ThISO
Run 1

Work Order	15-08002
Analysis Code	ThISO
Run	1
Date Received	8/3/2015
Lab Deadline	8/25/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		08/03/15 00:00	1.0000E+00
02	MBL	BLANK		08/03/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-8 090-091	65	07/29/15 09:41	1.0056E+00
04	TRG	FEEBRIS1D-8 075-076	82	07/29/15 09:06	5.6140E-01
05	DO	FEEBRIS1D-8 090-091	65	07/29/15 09:41	1.0162E+00
06	TRG	FEEBRIS1D-4 061-062	90	07/30/15 07:35	5.0280E-01
07	TRG	FEEBRIS1D-4 064-065	69	07/30/15 07:40	1.0022E+00
08	TRG	FEEBRIS1D-20 080-081	153	07/30/15 09:57	5.1880E-01
09	TRG	DUPLICATE 5	77	07/30/15 09:57	1.0248E+00
10	TRG	FEEBRIS1D-20 089-090	101	07/30/15 10:24	5.2480E-01
11	TRG	FEEBRIS1D-7 084-085	7570	07/24/15 08:07	5.7280E-03

001417

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4669	10.5		0.00								
02	MBL	0.2343	5.3		0.00								
03	DUP	0.2338	5.3		0.00								
04	TRG	0.2332	5.2		0.00								
05	DO	0.2329	5.2		0.00								
06	TRG	0.2319	5.2		0.00								
07	TRG	0.2326	5.2		0.00								
08	TRG	0.2322	5.2		0.00								
09	TRG	0.2320	5.2		0.00								
10	TRG	0.2324	5.2		0.00								
11	TRG	0.2320	5.2		0.00								

00148

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-08002
ThISO
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			08/12/15 06:31	JWOLFE				
02	MBL			08/12/15 06:31	JWOLFE				
03	DUP			08/12/15 06:31	JWOLFE				
04	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
05	DO	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
06	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
07	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
08	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
09	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
10	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
11	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.85E+00	9.93E-01	8.17E-02	4.87E+00	120.28	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	4.60E-03	4.55E-02	1.13E-01					OK	OK
03	TH-228	DUP	FEEBRIS1D-8 090-091	pCi/g	7.25E-01	2.36E-01	9.13E-02				NA	OK	
04	TH-228	TRG	FEEBRIS1D-8 075-076	pCi/g	2.63E-01	1.72E-01	1.44E-01					OK	
05	TH-228	DO	FEEBRIS1D-8 090-091	pCi/g	3.13E-01	1.75E-01	1.25E-01					OK	
06	TH-228	TRG	FEEBRIS1D-4 061-062	pCi/g	1.11E+00	4.25E-01	2.06E-01					INV	
07	TH-228	TRG	FEEBRIS1D-4 064-065	pCi/g	6.94E-01	2.16E-01	7.70E-02					OK	
08	TH-228	TRG	FEEBRIS1D-20 080-081	pCi/g	4.59E-02	1.27E-01	2.75E-01					INV	
09	TH-228	TRG	DUPLICATE 5	pCi/g	1.79E-01	1.51E-01	1.80E-01					OK	
10	TH-228	TRG	FEEBRIS1D-20 089-090	pCi/g	1.36E+00	4.42E-01	1.44E-01					OK	
11	TH-228	TRG	FEEBRIS1D-7 084-085	pCi/g	-1.47E-01	9.00E+00	2.19E+01					INV	

00150

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	08/03/15 00:00	1.00E+00	86.82	0.00	0.00			
02	TH-228	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-228	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-228	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-228	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-228	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-228	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-228	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-228	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-228	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-228	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

Work Order: 15-08002-ThISO-1

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	08/14/15 11:20		A_Spec	Alpha_034	170	3.43 E+02	2.00 E-03	17.9
02	TH-228	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	3.00 E-01	1.00 E-02	18.1
03	TH-228	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	5.00 E+01	6.00 E-03	17.1
04	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	1.03 E+01	4.00 E-03	16.2
05	TH-228	DO	08/14/15 11:20		A_Spec	Alpha_039	170	1.50 E+01	0.00 E+00	19.3
06	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	3.40 E+01	6.00 E-03	18.6
07	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	5.40 E+01	0.00 E+00	18.7
08	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	1.00 E+00	0.00 E+00	17.4
09	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	7.30 E+00	1.00 E-02	20
10	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	4.95 E+01	3.00 E-03	18.4
11	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	-6.00 E-02	1.80 E-02	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.46E+00	1.08E+00	7.13E-02	5.37E+00	120.22	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	7.42E-02	6.86E-02	6.41E-02					OK	OK
03	TH-230	DUP	FEEBRIS1D-8 090-091	pCi/g	3.83E-01	1.59E-01	5.96E-02				INV	OK	
04	TH-230	TRG	FEEBRIS1D-8 075-076	pCi/g	3.54E+00	8.22E-01	1.50E-01					OK	
05	TH-230	DO	FEEBRIS1D-8 090-091	pCi/g	9.93E-01	3.42E-01	1.16E-01					OK	
06	TH-230	TRG	FEEBRIS1D-4 061-062	pCi/g	1.84E+00	5.78E-01	1.81E-01					OK	
07	TH-230	TRG	FEEBRIS1D-4 064-065	pCi/g	7.73E-01	2.33E-01	1.11E-01					OK	
08	TH-230	TRG	FEEBRIS1D-20 080-081	pCi/g	1.36E+00	5.67E-01	2.71E-01					INV	
09	TH-230	TRG	DUPLICATE 5	pCi/g	1.43E+00	4.76E-01	1.36E-01					OK	
10	TH-230	TRG	FEEBRIS1D-20 089-090	pCi/g	1.43E+00	4.52E-01	1.13E-01					OK	
11	TH-230	TRG	FEEBRIS1D-7 084-085	pCi/g	1.67E+04	2.75E+03	2.30E+01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Run	1
Analysis Code	ThISO
Eberline Services Work Order	15-08002
Client	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	08/03/15 00:00	1.00E+00	86.82	0.00	0.00			
02	TH-230	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-230	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-230	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-230	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-230	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-230	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-230	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-230	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-230	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-230	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

00154

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	08/14/15 11:20		A_Spec	Alpha_034	170	3.78 E+02	1.00 E-03	17.9
02	TH-230	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	4.83 E+00	1.00 E-03	18.1
03	TH-230	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	2.68 E+01	1.00 E-03	17.1
04	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	1.41 E+02	0.00 E+00	16.2
05	TH-230	DO	08/14/15 11:20		A_Spec	Alpha_039	170	4.83 E+01	4.00 E-03	19.3
06	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	5.73 E+01	4.00 E-03	18.6
07	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	6.10 E+01	1.19 E-02	18.7
08	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	3.00 E+01	0.00 E+00	17.4
09	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	5.93 E+01	4.00 E-03	20
10	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	5.28 E+01	1.00 E-03	18.4
11	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	6.96 E+03	2.20 E-02	17.8

CS100

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	4.89E+00	8.61E-01	8.95E-02	4.87E+00	100.48	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	4.34E-02	5.28E-02	6.40E-02					OK	OK
03	TH-232	DUP	FEEBRIS1D-8 090-091	pCi/g	7.48E-01	2.38E-01	7.48E-02				OK	OK	
04	TH-232	TRG	FEEBRIS1D-8 075-076	pCi/g	2.38E-01	1.61E-01	1.31E-01					OK	
05	TH-232	DO	FEEBRIS1D-8 090-091	pCi/g	5.95E-01	2.49E-01	1.23E-01					OK	
06	TH-232	TRG	FEEBRIS1D-4 061-062	pCi/g	1.47E+00	4.98E-01	1.54E-01					OK	
07	TH-232	TRG	FEEBRIS1D-4 064-065	pCi/g	6.61E-01	2.14E-01	1.23E-01					OK	
08	TH-232	TRG	FEEBRIS1D-20 080-081	pCi/g	3.76E-01	2.83E-01	2.80E-01					INV	
09	TH-232	TRG	DUPLICATE 5	pCi/g	1.41E-01	1.20E-01	1.01E-01					OK	
10	TH-232	TRG	FEEBRIS1D-20 089-090	pCi/g	1.20E+00	4.07E-01	1.53E-01					OK	
11	TH-232	TRG	FEEBRIS1D-7 084-085	pCi/g	1.78E+02	5.07E+01	2.26E+01					INV	

00156

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	08/03/15 00:00	1.00E+00	86.82	0.00	0.00			
02	TH-232	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-232	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-232	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-232	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-232	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-232	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-232	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-232	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-232	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-232	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	08/14/15 11:20		A_Spec	Alpha_034	170	2.86 E+02	3.00 E-03	17.9
02	TH-232	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	2.83 E+00	1.00 E-03	18.1
03	TH-232	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	5.25 E+01	3.00 E-03	17.1
04	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	9.49 E+00	3.00 E-03	16.2
05	TH-232	DO	08/14/15 11:20		A_Spec	Alpha_039	170	2.90 E+01	0.00 E+00	19.3
06	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	4.57 E+01	2.00 E-03	18.6
07	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	5.23 E+01	1.59 E-02	18.7
08	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	8.32 E+00	3.97 E-03	17.4
09	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	5.83 E+00	1.00 E-03	20
10	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	4.43 E+01	4.00 E-03	18.4
11	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	7.44 E+01	2.10 E-02	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	-1.37E-02	3.54E-02	1.19E-01					OK	OK
03	TH-227	DUP	FEEBRIS1D-8 090-091	pCi/g	1.93E-02	4.19E-02	8.26E-02				INV	OK	
04	TH-227	TRG	FEEBRIS1D-8 075-076	pCi/g	1.88E-01	1.47E-01	1.45E-01					OK	
05	TH-227	DO	FEEBRIS1D-8 090-091	pCi/g	7.36E-02	8.47E-02	1.11E-01					OK	
06	TH-227	TRG	FEEBRIS1D-4 061-062	pCi/g	1.81E-01	1.63E-01	1.73E-01					OK	
07	TH-227	TRG	FEEBRIS1D-4 064-065	pCi/g	6.04E-02	6.76E-02	9.95E-02					OK	
08	TH-227	TRG	FEEBRIS1D-20 080-081	pCi/g	1.08E-01	1.70E-01	2.88E-01					INV	
09	TH-227	TRG	DUPLICATE 5	pCi/g	1.40E-01	1.34E-01	1.70E-01					OK	
10	TH-227	TRG	FEEBRIS1D-20 089-090	pCi/g	2.41E-01	1.69E-01	1.33E-01					OK	
11	TH-227	TRG	FEEBRIS1D-7 084-085	pCi/g	1.03E+02	3.59E+01	1.55E+01					INV	

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-227	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-227	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-227	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-227	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-227	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-227	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-227	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-227	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-227	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

09T00

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
02	TH-227	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	-8.70 E-01	1.10 E-02	18.1
03	TH-227	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	1.32 E+00	4.00 E-03	17.1
04	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	7.32 E+00	4.00 E-03	16.2
05	TH-227	DO	08/14/15 11:20		A_Spec	Alpha_039	170	3.49 E+00	3.00 E-03	19.3
06	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	5.49 E+00	3.00 E-03	18.6
07	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	4.65 E+00	7.95 E-03	18.7
08	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	2.32 E+00	3.97 E-03	17.4
09	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	5.64 E+00	8.00 E-03	20
10	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	8.66 E+00	2.00 E-03	18.4
11	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	4.20 E+01	6.00 E-03	17.8

Count Room Report
Client: AMO Environmental Decisio

15-08002-ThISO-1 (pCi/g) in SO
Tracer ID: Th-18a

#34-46

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	08/03/15 00:00	1.0000	0.4669	10.4866		0.00		
02	MBL	BLANK	08/03/15 00:00	1.0000	0.2343	5.2624		0.00		
03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	1.0056	0.2338	5.2511		0.00		
04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	0.5614	0.2332	5.2377		0.00		
05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	1.0162	0.2329	5.2309		0.00		
06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	0.5028	0.2319	5.2085		0.00		
07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	1.0022	0.2326	5.2242		0.00		
08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	0.5188	0.2322	5.2152		0.00		
09	TRG	DUPLICATE 5	07/30/15 09:57	1.0248	0.2320	5.2107		0.00		
10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	0.5248	0.2324	5.2197		0.00		
11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	0.0057	0.2320	5.2107		0.00		

00162

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-08002	1	ThISO	8/12/2015 6:13	JWOLFE	JW	

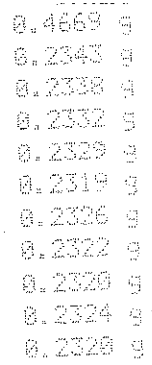
LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Th-228	Th-8b	103.560	8/12/2015	0.100	0.1043				4.87	0.175	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	8/12/2015	0.500	0.5071				5.37	0.145	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	8/12/2015	0.100	0.1043				4.87	0.175	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

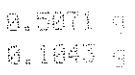
fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Th-229	Th-18a	22.460	8/12/2015	0.4669	0.2200
02	Th-229	Th-18a	22.460	8/12/2015	0.2343	0.2200
03	Th-229	Th-18a	22.460	8/12/2015	0.2338	0.2200
04	Th-229	Th-18a	22.460	8/12/2015	0.2332	0.2200
05	Th-229	Th-18a	22.460	8/12/2015	0.2329	0.2200
06	Th-229	Th-18a	22.460	8/12/2015	0.2319	0.2200
07	Th-229	Th-18a	22.460	8/12/2015	0.2326	0.2200
08	Th-229	Th-18a	22.460	8/12/2015	0.2322	0.2200
09	Th-229	Th-18a	22.460	8/12/2015	0.2320	0.2200
10	Th-229	Th-18a	22.460	8/12/2015	0.2324	0.2200
11	Th-229	Th-18a	22.460	8/12/2015	0.2320	0.2200

Balance Printer Tapes

Tracer



LCS



Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/12/2015 5:59 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-08002	1	ThISO	grams	8/25/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-8 090-091	DUP					1.0056E+00	1.0056E+00				
04	FEEBRIS1D-8 075-076	TRG		1	12.47	8.02E-02	7.0000E+00	5.6140E-01				
05	FEEBRIS1D-8 090-091	DO					1.0162E+00	1.0162E+00				
06	FEEBRIS1D-4 061-062	TRG					5.0280E-01	5.0280E-01				
07	FEEBRIS1D-4 064-065	TRG					1.0022E+00	1.0022E+00				
08	FEEBRIS1D-20 080-081	TRG					5.1880E-01	5.1880E-01				
09	DUPLICATE 5	TRG					1.0248E+00	1.0248E+00				
10	FEEBRIS1D-20 089-090	TRG					5.2480E-01	5.2480E-01				
11	FEEBRIS1D-7 084-085	TRG		1	698.32	1.43E-03	4.0000E+00	5.7280E-03				

Comments	

001164

Technician: JWOLFE Date: 8/12/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-08002
	Fraction	**> 04 <**
	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.02**	ml	from the original sample and diluted it to	**100**	ml	0.0802
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0802**
Dilution Factor	**12.46882793**

00165

Diluted by: JW Date: 8/12/15

EBERLINE SERVICES

	Internal Work Order	15-08002
	Fraction	**> 11 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**0.1432**	ml	from the original sample and diluted it to	**100**	ml	0.0014
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.001432**
Dilution Factor	**698.3240223**

00166

Diluted by: JW Date 8/12/15

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-08002	grams	8/25/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-8 075-076	103.0300	111.0500		8.0200		
05	FEEBRIS1D-8 090-091						
06	FEEBRIS1D-4 061-062						
07	FEEBRIS1D-4 064-065						
08	FEEBRIS1D-20 080-081						
09	DUPLICATE 5						
10	FEEBRIS1D-20 089-090						
11	FEEBRIS1D-7 084-085						

Comments

001671

Technician: Kenny Sallings Date: 8/4/15

Analysis: ThISO

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 8/4/2015 7:03 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-08002	8/25/2015	8/3/2015	8/4/2015	8/5/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-8 075-076	29.1400	1285.8400	939.6200	1256.7000	910.4800	27.55%	72.45%			
05	FEEBRIS1D-8 090-091	14.5200	1361.5600	1123.6600	1347.0400	1109.1400	17.66%	82.34%			
06	FEEBRIS1D-4 061-062	28.9300	1585.4000	1326.6400	1556.4700	1297.7100	16.62%	83.38%			
07	FEEBRIS1D-4 064-065	29.0900	1146.8400	987.6800	1117.7500	958.5900	14.24%	85.76%			
08	FEEBRIS1D-20 080-081	29.0500	1884.4500	1712.7000	1855.4000	1683.6500	9.26%	90.74%			
09	DUPLICATE 5	29.3000	1915.5000	1753.4000	1886.2000	1724.1000	8.59%	91.41%			
10	FEEBRIS1D-20 089-090	29.0600	1419.9000	1184.3000	1390.8400	1155.2400	16.94%	83.06%			
11	FEEBRIS1D-7 084-085	14.5600	643.0500	530.1000	628.4900	515.5400	17.97%	82.03%			

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

001168

Technician: Kenny Sallings Date: **Analysis: Rough Prep Logbook**

KB 9/14/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 125648
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/14/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:36 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.467 mL
Effective Efficiency: 0.1553 +/- 0.0105
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 0.8682 +/- 0.0607

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 1.004791 +/- 0.095184
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.751	6.49	80.40	0.51	0.00E+000	3.0
TH-228		5.349	342.66	10.59	0.34	0.00E+000	14.9
TH-229	T	4.871	276.83	11.78	0.17	0.00E+000	6.2
TH-230		4.610	377.83	10.09	0.17	0.00E+000	6.8
TH-232		3.947	286.49	11.59	0.51	0.00E+000	9.7

T = Tracer Peak used for Effective Efficiency

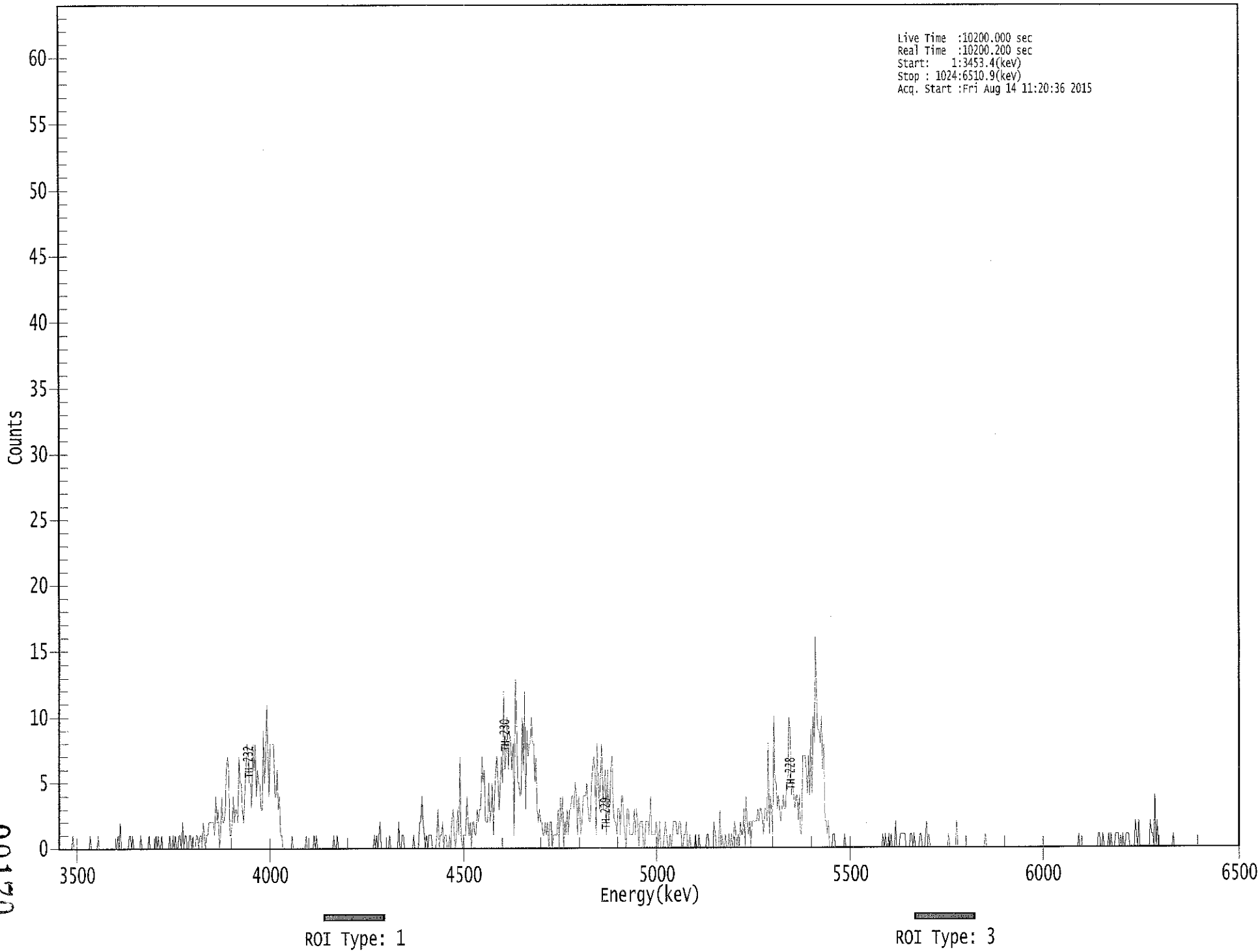
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.950	5850.00*	1.14E-001 +/- 9.26E-002	9.18E-002 +/- 1.22E-002
TH-228	0.986	5400.00*	5.85E+000 +/- 9.93E-001	8.17E-002 +/- 1.08E-002
TH-229	1.000	4872.00*	4.75E+000 +/- 6.29E-001	7.16E-002 +/- 9.49E-003
TH-230	0.980	4672.00*	6.46E+000 +/- 1.08E+000	7.13E-002 +/- 9.46E-003
TH-232	0.987	3997.00*	4.89E+000 +/- 8.61E-001	8.95E-002 +/- 1.19E-002

AG 8/14/15

00169

0000125956.CNF



00170

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	1	0	0	0	0
33:	0	0	1	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	2	0	0
57:	0	0	0	0	0	1	1	0
65:	1	0	0	0	0	0	0	1
73:	0	0	0	0	0	0	1	0
81:	0	0	0	0	1	0	1	0
89:	0	1	0	0	0	0	0	0
97:	1	0	0	1	0	1	0	0
105:	1	1	0	2	0	1	1	0
113:	0	1	1	0	1	0	0	1
121:	1	0	1	1	0	2	1	0
129:	1	1	2	2	2	2	2	1
137:	4	2	3	0	1	4	2	2
145:	3	6	7	6	1	1	2	4
153:	2	3	3	2	7	5	5	3
161:	2	4	6	8	7	5	5	3
169:	8	6	8	4	6	5	5	3
177:	3	9	5	7	11	7	4	8
185:	8	8	8	4	4	6	3	4
193:	1	1	0	0	0	0	0	0
201:	0	0	1	0	0	0	0	0
209:	0	0	0	0	0	0	1	0
217:	0	0	0	0	0	1	0	1
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	1	0
241:	0	1	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	1	0	1	0	1	2	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	2	0
297:	0	1	1	0	0	0	0	0
305:	0	0	0	1	0	0	0	0
313:	2	2	4	2	1	0	1	0
321:	1	1	1	0	0	0	0	1
329:	3	0	1	1	2	0	1	1
337:	0	0	1	0	2	3	1	0
345:	1	3	1	7	1	0	1	1
353:	1	4	2	1	2	0	2	2
361:	1	1	3	2	3	3	7	5

369:	6	2	2	2	5	2	3	5

Sample Title: 01

Channel								
377:	1	4	6	7	5	3	5	7
385:	5	12	6	7	10	6	9	8
393:	6	8	1	13	11	5	5	4
401:	4	10	6	12	3	9	7	8
409:	8	10	8	8	5	7	3	2
417:	3	2	2	1	1	2	1	2
425:	0	2	2	0	1	1	1	1
433:	3	0	4	2	4	0	2	1
441:	3	1	3	3	4	4	3	5
449:	4	1	4	3	1	2	4	4
457:	4	5	3	2	2	5	6	7
465:	6	1	8	5	3	6	8	3
473:	5	6	1	6	2	3	6	7
481:	3	2	2	1	3	3	1	4
489:	4	2	1	0	3	3	1	1
497:	1	1	3	1	3	2	0	2
505:	2	2	0	0	2	2	2	1
513:	4	1	1	1	1	2	1	0
521:	2	0	0	0	1	2	1	0
529:	0	1	0	1	2	2	2	1
537:	1	2	2	0	0	1	1	2
545:	0	0	1	0	0	0	0	1
553:	0	0	1	0	0	0	0	0
561:	0	1	1	0	0	0	0	2
569:	1	0	0	0	3	0	1	0
577:	0	1	0	0	1	0	1	0
585:	1	2	1	0	1	0	2	1
593:	1	3	0	4	2	1	2	0
601:	2	2	2	2	2	3	2	3
609:	3	2	1	3	3	2	8	1
617:	4	3	1	10	5	5	3	4
625:	3	2	3	4	3	3	5	5
633:	10	9	4	5	4	3	4	4
641:	2	4	1	1	7	7	7	6
649:	4	7	4	9	4	10	8	16
657:	11	9	9	8	10	6	8	2
665:	2	1	2	0	0	0	1	1
673:	0	0	0	0	0	0	0	0
681:	1	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	1	0	1	0	0	1	0
721:	1	0	0	0	2	0	0	0
729:	1	1	1	1	1	0	0	0
737:	0	1	1	0	1	0	0	0
745:	0	1	1	0	0	0	1	2
753:	0	1	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	1	0	0	0	0	0
777:	0	2	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	1	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	1	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	1	1	0	0
905:	1	0	0	0	0	1	0	1
913:	0	0	0	1	1	1	0	0
921:	0	1	0	0	1	1	1	0
929:	0	0	0	0	2	1	0	2
937:	0	0	0	0	0	0	0	0
945:	0	2	1	1	0	4	0	2
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	1	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KCB 8/14/15

Apex-Alpha™

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 125650
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/14/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:38 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.1729 +/- 0.0149
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 0.9574 +/- 0.0843

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.756	-0.87	258.63	1.87	0.00E+000	3.0
TH-228		5.394	0.30	988.46	1.70	0.00E+000	3.0
TH-229	T	4.874	154.66	15.78	0.34	0.00E+000	4.6
TH-230		4.637	4.83	91.00	0.17	0.00E+000	3.0
TH-232		3.951	2.83	120.53	0.17	0.00E+000	3.0

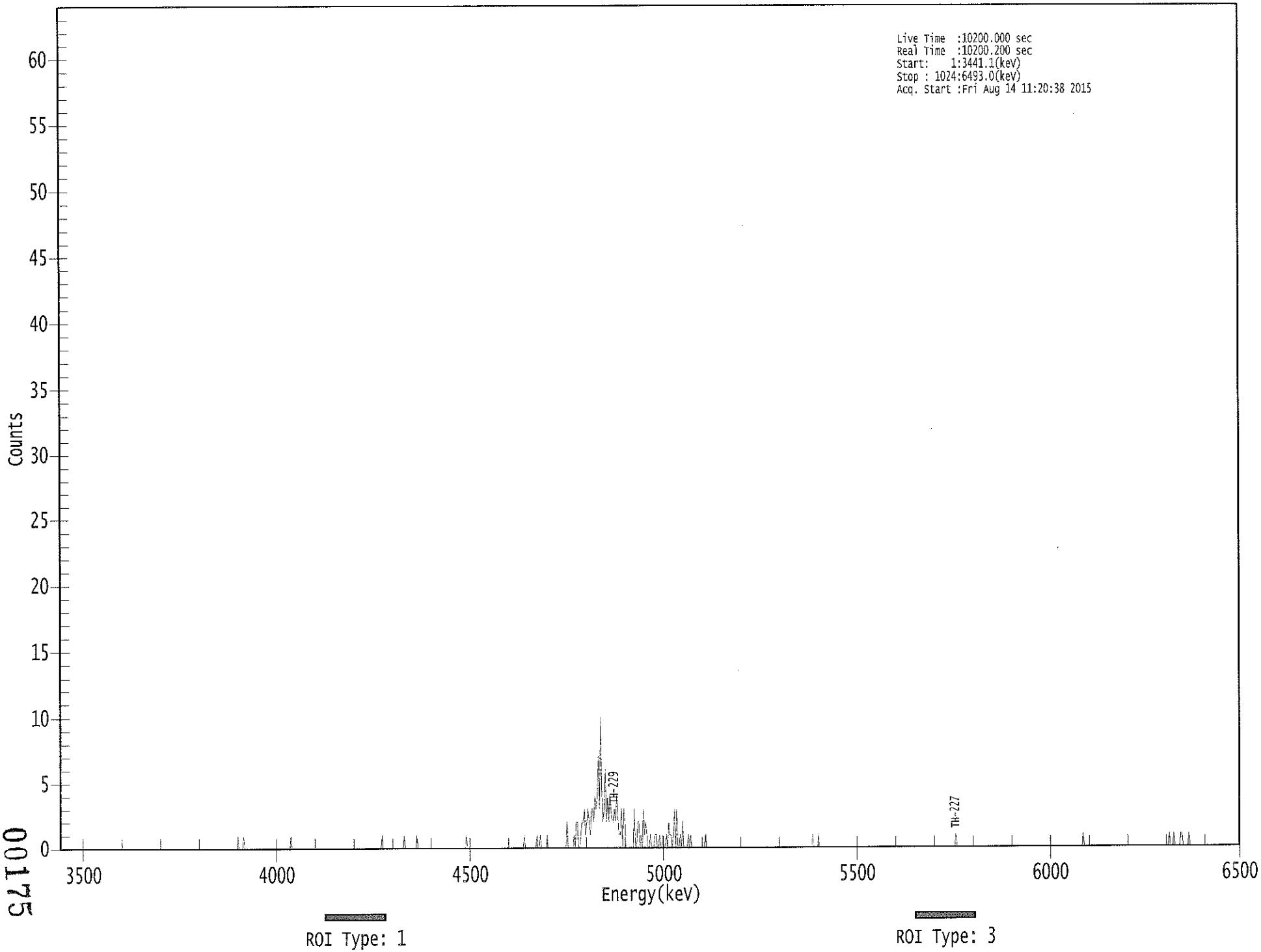
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.955	5850.00*	-1.37E-002 +/- 3.54E-002	1.19E-001 +/- 2.01E-002
TH-228	1.000	5400.00*	4.60E-003 +/- 4.55E-002	1.13E-001 +/- 1.91E-002
TH-229	1.000	4872.00*	2.38E+000 +/- 4.03E-001	7.36E-002 +/- 1.25E-002
TH-230	0.994	4672.00*	7.42E-002 +/- 6.86E-002	6.41E-002 +/- 1.08E-002
TH-232	0.989	3997.00*	4.34E-002 +/- 5.28E-002	6.40E-002 +/- 1.08E-002

AG
8/14/15

0000125957.CNF



00125

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	1	0	0	0	0	1
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	1
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	1	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	1	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	1	0	0	0	0	0
409:	0	0	0	0	0	1	0	0
417:	1	0	0	0	0	0	1	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	2
441:	0	0	0	0	0	1	0	2
449:	2	0	0	1	2	2	3	1
457:	2	3	2	1	3	3	2	4
465:	3	4	7	3	10	4	2	3
473:	6	2	4	2	4	3	2	2
481:	3	2	4	2	1	1	3	0
489:	3	2	0	0	0	0	0	0
497:	0	3	0	0	2	2	0	1
505:	0	3	1	2	1	0	0	1
513:	0	0	0	1	1	0	0	1
521:	0	0	1	0	0	1	0	2
529:	1	1	0	1	3	0	3	0
537:	0	1	0	2	0	0	0	0
545:	1	0	1	0	0	0	0	0
553:	0	0	0	0	0	0	0	1
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	1	0	0	0
657:	0	1	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	1	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	1	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	1	0	0	0	1	0	0
969:	0	0	0	1	1	0	0	0
977:	0	0	1	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

VB 8/14/15

Sample Description: FEEBRIS1D-8 090-091-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 125651
Reagent Blank: <not performed>

Sample Size: 1.006E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:40 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.1848 +/- 0.0155
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 1.0816 +/- 0.0928

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.818	1.32	215.97	0.68	0.00E+000	3.0
TH-228		5.371	49.98	28.05	1.02	0.00E+000	6.5
TH-229	T	4.871	165.00	15.30	0.00	0.00E+000	6.0
TH-230		4.636	26.83	37.98	0.17	0.00E+000	3.8
TH-232		3.964	52.49	27.21	0.51	0.00E+000	5.0

T = Tracer Peak used for Effective Efficiency

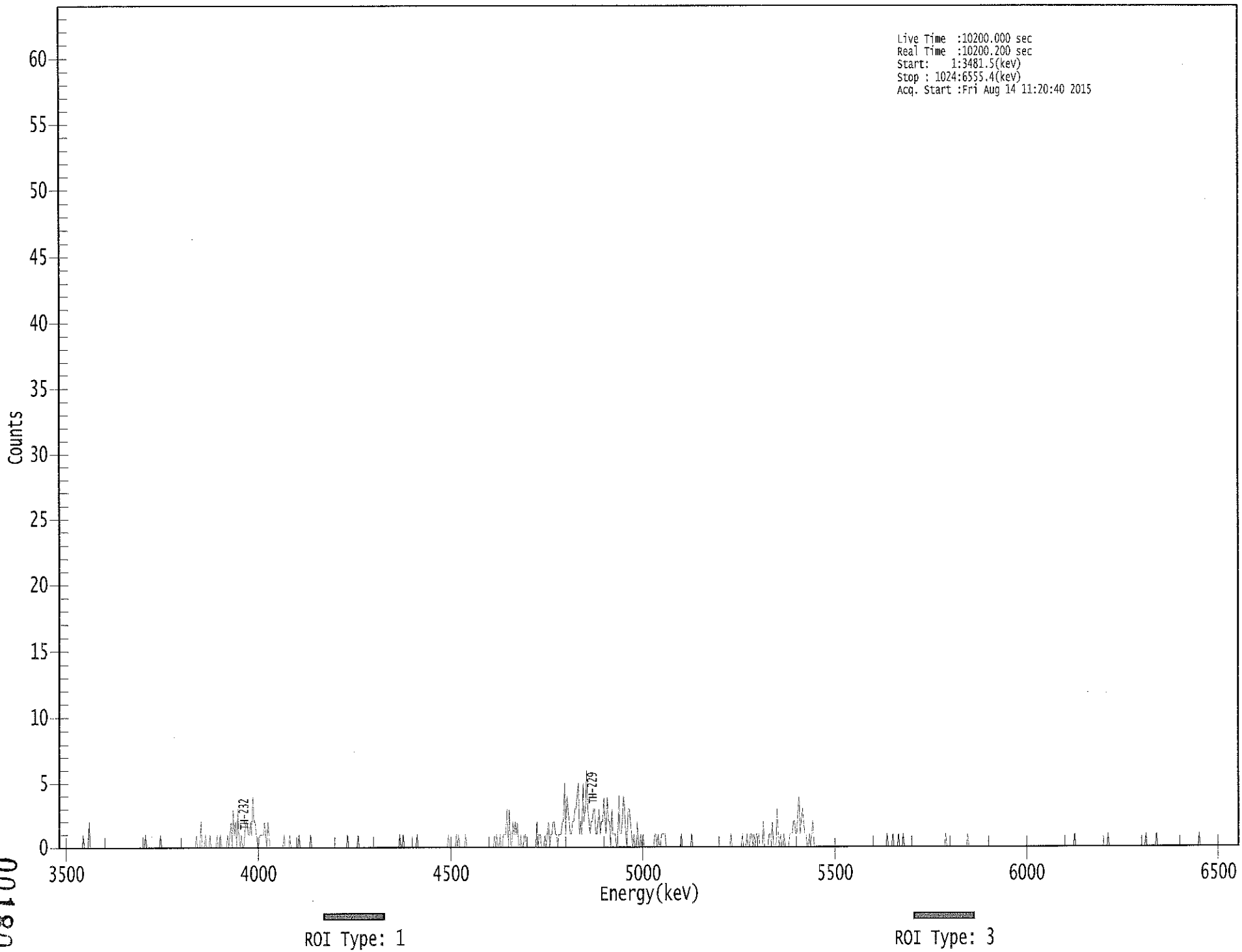
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.995	5850.00*	1.93E-002 +/- 4.19E-002	8.26E-002 +/- 1.36E-002
TH-228	0.996	5400.00*	7.25E-001 +/- 2.36E-001	9.13E-002 +/- 1.50E-002
TH-229	1.000	4872.00*	2.36E+000 +/- 3.89E-001	8.59E-002 +/- 1.41E-002
TH-230	0.993	4672.00*	3.83E-001 +/- 1.59E-001	5.96E-002 +/- 9.81E-003
TH-232	0.994	3997.00*	7.48E-001 +/- 2.38E-001	7.48E-002 +/- 1.23E-002

AG 8/14/15

00179

0000125958.CNF



00180

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	1	0	0
25:	0	0	2	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	1	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	2	0	0	0	1
129:	0	0	0	1	0	0	0	0
137:	0	1	0	0	1	0	0	0
145:	0	0	1	0	1	2	0	3
153:	1	2	0	3	1	0	1	0
161:	0	1	2	2	1	1	2	1
169:	4	2	2	1	0	0	1	1
177:	1	1	2	1	0	2	1	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	1	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	1	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	1	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	1
297:	0	0	1	0	0	0	0	0
305:	0	0	0	0	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	1	0	0	0	0	0	0
345:	1	0	1	0	0	0	0	0
353:	1	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
377:	0	1	0	1	0	0	1	0
385:	0	1	1	1	3	0	3	0
393:	0	2	1	2	1	2	0	0
401:	1	0	0	1	1	0	0	0
409:	0	0	0	0	0	0	2	0
417:	1	1	0	0	0	1	0	1
425:	2	0	1	1	2	2	1	1
433:	0	1	1	1	2	2	5	1
441:	4	3	2	1	1	2	2	3
449:	3	4	5	1	2	1	5	2
457:	3	6	3	2	1	2	2	3
465:	3	1	1	2	3	1	2	2
473:	4	2	1	4	2	2	0	3
481:	1	1	1	0	0	4	1	1
489:	2	4	3	1	0	3	3	2
497:	1	0	1	0	0	2	0	0
505:	1	0	1	0	0	0	0	0
513:	0	0	0	0	1	1	0	1
521:	0	0	1	1	1	1	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	1	0	0	0	0
545:	0	0	0	0	1	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	1	0
585:	0	0	0	0	0	0	0	0
593:	1	0	0	0	1	0	0	1
601:	1	0	1	0	1	1	1	0
609:	0	0	2	0	0	0	0	1
617:	1	0	2	0	0	0	3	1
625:	0	1	0	0	1	0	0	0
633:	0	1	1	1	2	2	1	1
641:	3	4	1	2	3	2	1	1
649:	0	0	1	0	1	2	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	1	0	0
721:	0	0	1	0	0	0	0	1
729:	0	0	0	1	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	1	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	1	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	1	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	1	0
945:	0	0	0	0	0	0	0	1
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	1	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 075-076
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 125652
Reagent Blank: <not performed>

Sample Size: 5.614E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:41 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1885 +/- 0.0157
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.1668 +/- 0.0993

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.811	7.32	76.28	0.68	0.00E+000	3.0
TH-228		5.389	10.32	63.32	0.68	0.00E+000	3.0
TH-229	T	4.880	167.83	15.14	0.17	0.00E+000	3.5
TH-230		4.653	141.00	16.56	0.00	0.00E+000	15.0
TH-232		3.908	9.49	65.59	0.51	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

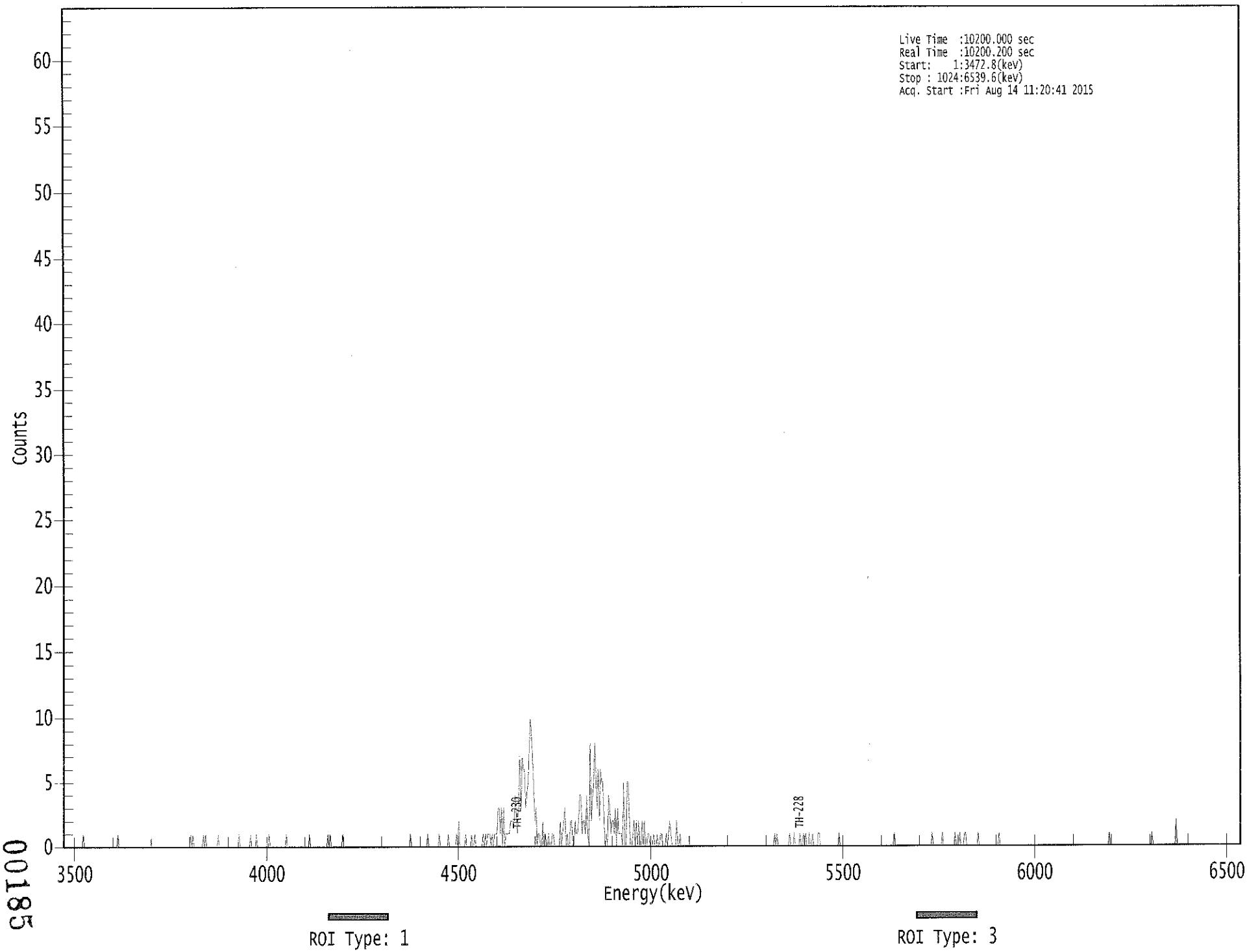
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.992	5850.00*	1.88E-001 +/- 1.47E-001	1.45E-001 +/- 2.37E-002
TH-228	0.999	5400.00*	2.63E-001 +/- 1.72E-001	1.44E-001 +/- 2.34E-002
TH-229	1.000	4872.00*	4.22E+000 +/- 6.89E-001	1.05E-001 +/- 1.71E-002
TH-230	0.998	4672.00*	3.54E+000 +/- 8.22E-001	1.50E-001 +/- 2.45E-002
TH-232	0.960	3997.00*	2.38E-001 +/- 1.61E-001	1.31E-001 +/- 2.14E-002

AG 8/14/15

00184

0000125959.CNF



00185

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	1
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	1	0
113:	1	0	0	0	0	0	0	0
121:	0	1	0	1	0	0	0	0
129:	0	0	0	0	0	0	1	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	1	0	0	0	0	0	0	0
161:	0	0	1	0	0	0	0	1
169:	0	0	0	0	0	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	1	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	1	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	1	0	1
233:	0	0	0	0	0	0	0	0
241:	0	0	1	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	1	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	0	1	0
329:	0	0	0	0	0	0	1	0
337:	0	0	0	0	0	1	0	2
345:	0	0	0	0	0	1	0	0
353:	0	0	1	0	0	1	0	0
361:	0	0	0	0	1	0	1	0

369:	1	1	1	0	1	0	1	1

Sample Title: 04

Channel								
377:	1	3	3	1	3	0	3	0
385:	1	1	1	1	2	2	2	2
393:	4	2	1	4	7	3	7	6
401:	6	3	4	5	7	10	9	7
409:	5	2	3	0	1	1	0	0
417:	2	0	1	0	0	1	0	0
425:	1	1	0	0	0	0	0	2
433:	0	1	2	3	0	1	0	0
441:	2	2	0	0	2	1	1	2
449:	4	4	1	2	2	1	4	1
457:	0	8	2	4	5	8	5	3
465:	6	2	6	5	5	2	0	1
473:	0	4	3	1	2	2	1	3
481:	0	3	1	1	1	0	5	0
489:	0	5	5	2	0	0	1	2
497:	0	2	0	2	0	0	2	0
505:	2	0	0	1	1	0	0	0
513:	1	0	0	1	0	0	1	1
521:	0	0	0	1	0	1	2	1
529:	0	0	0	0	2	0	0	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	1	0	1	0	0	0	0
625:	0	0	0	0	0	0	1	0
633:	0	0	1	0	0	0	0	1
641:	0	0	1	0	1	0	0	1
649:	0	0	1	0	0	0	0	1
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	1	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	1	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	1	0
777:	0	0	1	0	0	0	1	1
785:	0	0	0	0	0	0	0	0
793:	0	0	1	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	1	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	1	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	1	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	2	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KCB 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 090-091
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 125653
Reagent Blank: <not performed>

Sample Size: 1.016E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:43 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1271 +/- 0.0126
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 0.6569 +/- 0.0663

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.926	3.49	113.53	0.51	0.00E+000	3.0
TH-228		5.305	15.00	52.27	0.00	0.00E+000	3.0
TH-229	T	4.829	113.00	18.52	0.00	0.00E+000	4.4
TH-230		4.603	48.32	28.43	0.68	0.00E+000	3.0
TH-232		3.918	29.00	37.02	0.00	0.00E+000	3.8

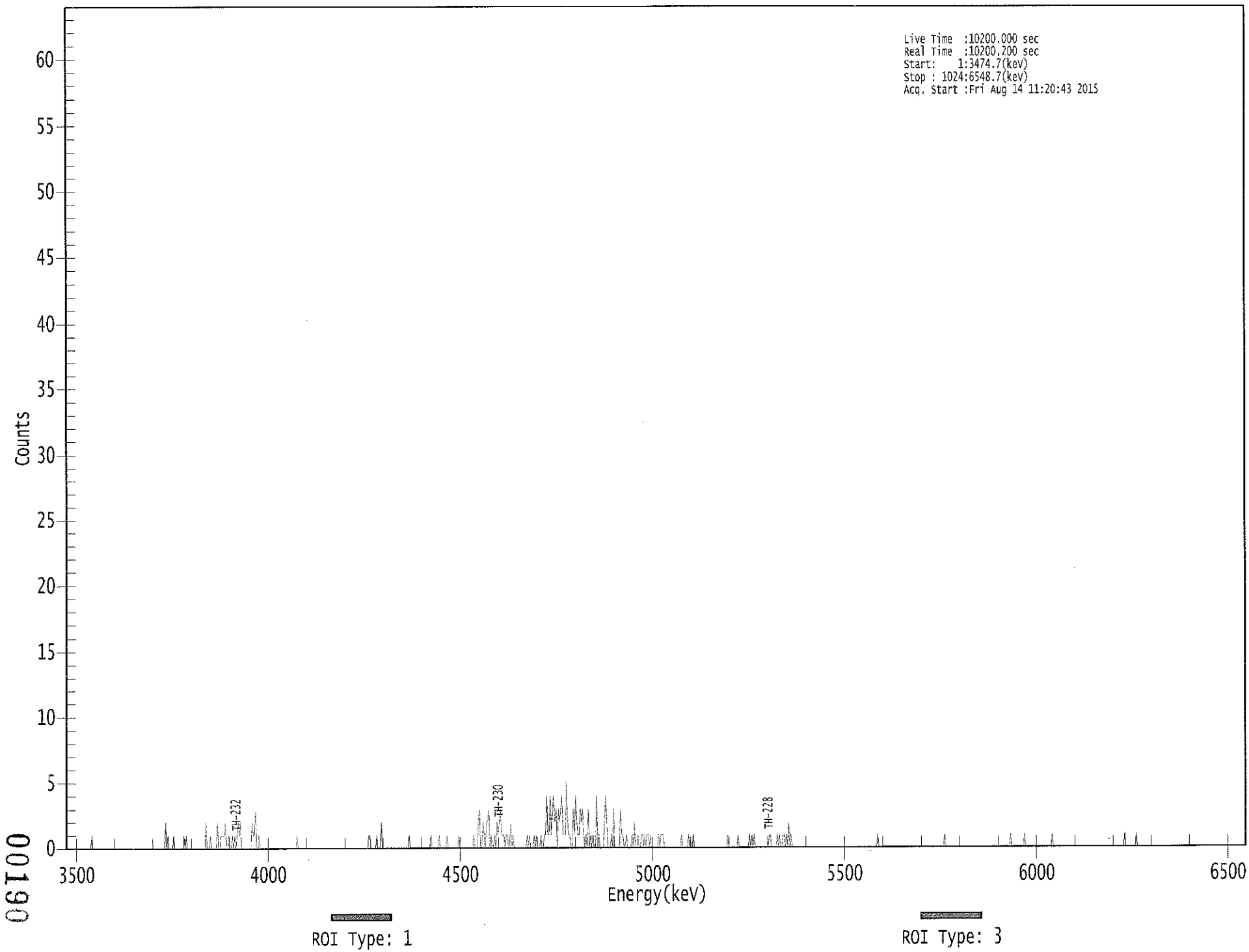
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.970	5850.00*	7.36E-002 +/- 8.47E-002	1.11E-001 +/- 2.16E-002
TH-228	0.954	5400.00*	3.13E-001 +/- 1.75E-001	1.25E-001 +/- 2.44E-002
TH-229	0.991	4872.00*	2.33E+000 +/- 4.54E-001	1.24E-001 +/- 2.41E-002
TH-230	0.975	4672.00*	9.93E-001 +/- 3.42E-001	1.16E-001 +/- 2.26E-002
TH-232	0.968	3997.00*	5.95E-001 +/- 2.49E-001	1.23E-001 +/- 2.40E-002

AG 8/14/15

0000125964.CNF



00190

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	1	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	2	0
89:	1	0	0	0	0	1	0	0
97:	0	0	0	0	0	0	1	0
105:	1	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	2	0	0	0	1	0	0
129:	0	0	0	2	0	0	1	1
137:	1	1	2	0	0	1	0	0
145:	1	0	1	0	1	2	1	2
153:	0	0	0	0	0	0	0	0
161:	0	2	1	1	3	0	0	1
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	1	1
265:	0	0	0	0	0	1	0	0
273:	0	2	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	1	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	1	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	2	3	0
361:	0	2	1	0	2	2	3	0

369:	1	0	0	1	0	2	1	2

Sample Title: 05

Channel								
377:	3	1	1	1	0	1	1	0
385:	0	2	0	1	0	0	0	0
393:	0	0	0	0	0	0	0	1
401:	0	1	0	0	0	1	0	1
409:	0	0	0	1	0	0	1	1
417:	4	1	1	4	1	3	4	2
425:	3	0	3	2	3	4	1	1
433:	1	5	2	1	1	0	0	3
441:	1	4	2	1	1	3	2	3
449:	1	0	1	0	3	0	1	0
457:	1	0	0	4	0	1	0	0
465:	0	0	2	4	2	0	0	0
473:	1	0	3	0	0	0	0	0
481:	3	1	1	0	0	1	0	0
489:	0	0	1	0	2	0	0	1
497:	0	0	1	1	0	1	0	1
505:	1	0	1	0	0	0	0	0
513:	0	1	0	1	1	1	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	1	0	0	0	1
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	1	0	0
577:	0	0	0	0	0	0	1	0
585:	0	0	0	0	0	0	0	0
593:	1	0	1	0	1	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	1	1	0	0	0	0	0
617:	1	0	1	0	0	1	1	0
625:	1	0	2	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	1
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	1	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	1	0	0	0	0	0
825:	0	0	0	0	0	0	1	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	1	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	1	0	0
921:	0	0	0	0	0	0	0	1
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 8/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-4 061-062
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 125654
Reagent Blank: <not performed>

Sample Size: 5.028E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:45 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1641 +/- 0.0146
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 0.8844 +/- 0.0800

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.843	5.49	88.08	0.51	0.00E+000	3.0
TH-228		5.376	33.98	34.21	1.02	0.00E+000	3.7
TH-229	T	4.877	145.32	16.30	0.68	0.00E+000	8.7
TH-230		4.636	57.32	26.07	0.68	0.00E+000	4.0
TH-232		3.961	45.66	29.13	0.34	0.00E+000	3.4

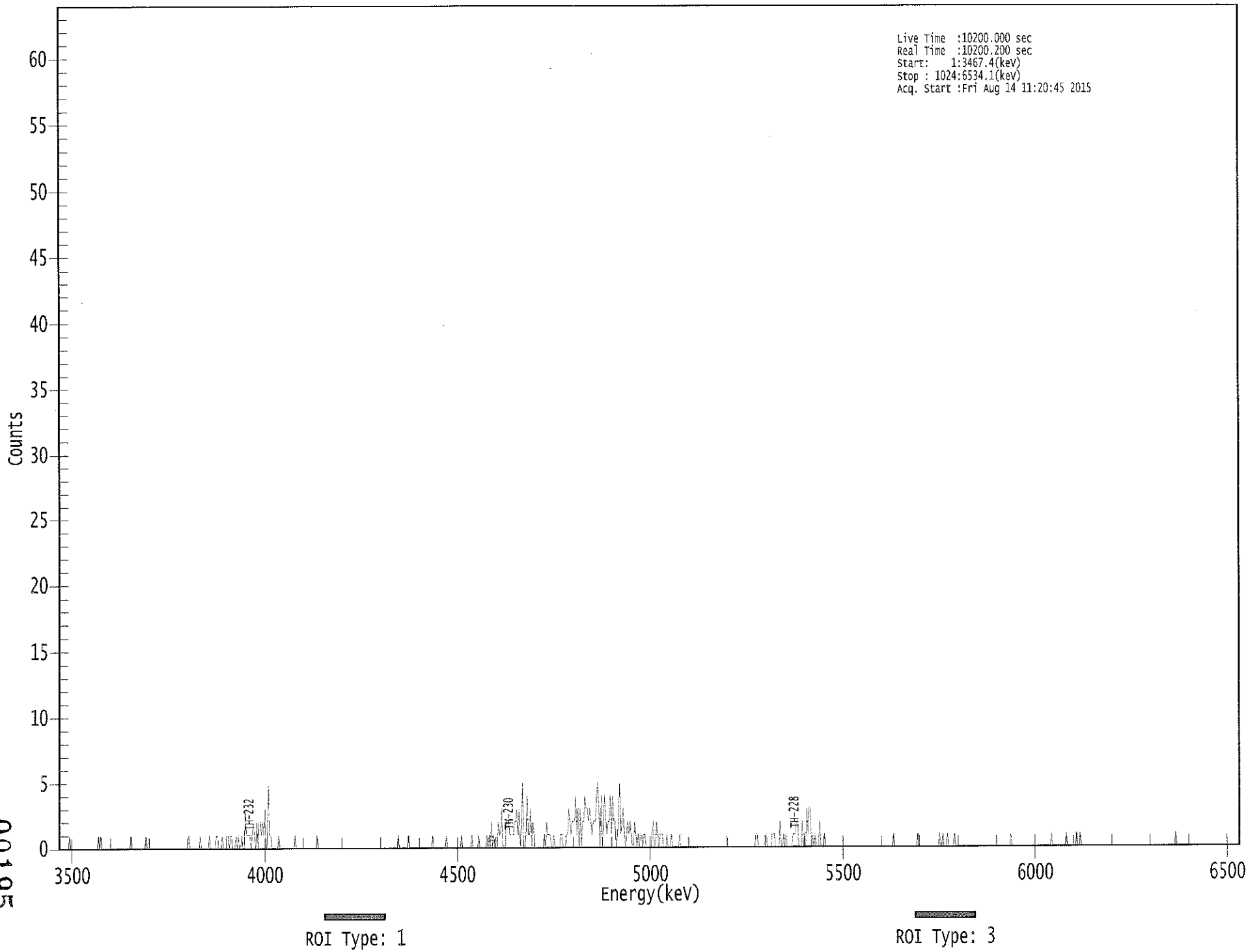
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	1.81E-001 +/- 1.63E-001	1.73E-001 +/- 3.01E-002
TH-228	0.997	5400.00*	1.11E+000 +/- 4.25E-001	2.06E-001 +/- 3.58E-002
TH-229	1.000	4872.00*	4.69E+000 +/- 8.16E-001	1.82E-001 +/- 3.17E-002
TH-230	0.993	4672.00*	1.84E+000 +/- 5.78E-001	1.81E-001 +/- 3.16E-002
TH-232	0.993	3997.00*	1.47E+000 +/- 4.98E-001	1.54E-001 +/- 2.67E-002

AG 8/14/15

0000125960.CNF



00195

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	1	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	1	0	1	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	1	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	1	0	0	0	0	0	0	0
121:	0	0	1	0	0	0	0	0
129:	0	0	1	0	0	0	0	0
137:	1	1	0	0	0	1	0	0
145:	0	1	1	0	1	1	0	0
153:	0	1	0	1	0	0	1	0
161:	0	3	1	1	1	1	0	1
169:	2	1	0	2	0	2	2	1
177:	2	1	3	0	0	5	1	1
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	1	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	1
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	1	0	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	1
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	1	0	0	0
353:	0	0	0	0	0	1	0	0
361:	0	0	0	1	0	0	0	0

369:	0	0	1	0	1	0	2	0

Sample Title: 06

Channel								
377:	1	0	0	0	2	1	1	3
385:	0	0	0	2	2	2	1	1
393:	1	1	2	2	3	1	3	0
401:	2	5	0	0	1	4	1	1
409:	3	0	2	1	0	0	0	0
417:	0	0	0	0	1	0	2	1
425:	1	1	0	0	1	0	0	0
433:	0	0	1	1	0	0	0	1
441:	1	3	2	1	2	2	2	4
449:	1	3	0	3	0	2	2	4
457:	3	3	2	3	2	1	2	2
465:	2	4	5	3	0	4	0	2
473:	4	2	1	2	2	4	1	4
481:	2	2	0	1	2	5	1	2
489:	3	1	0	1	2	1	2	1
497:	0	0	2	1	0	1	0	1
505:	1	0	1	1	0	0	0	0
513:	0	1	2	0	0	2	1	0
521:	1	1	1	0	0	0	1	0
529:	0	0	1	0	0	0	0	0
537:	0	1	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	1	1	0	0	0
609:	0	0	0	1	1	0	0	0
617:	0	1	1	1	0	0	0	0
625:	2	0	0	1	0	1	0	0
633:	0	0	0	1	1	1	2	2
641:	0	0	0	2	0	1	0	3
649:	1	3	3	0	1	0	1	0
657:	0	0	2	0	0	0	1	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	1	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	1
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	1	0	0	1	0	0
769:	0	1	0	0	0	0	0	1
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	1	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	1	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	1	0	0	0	0	0	0	0
881:	0	1	0	0	1	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

VCB 8/14/15

Sample Description: FEEBRIS1D-4 064-065
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 125655
Reagent Blank: <not performed>

Sample Size: 1.002E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:46 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.2090 +/- 0.0167
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 1.1159 +/- 0.0914

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.856	4.65	110.85	1.35	0.00E+000	3.0
TH-228		5.365	54.00	26.92	0.00	0.00E+000	4.4
TH-229	T	4.873	185.65	14.47	1.35	0.00E+000	11.2
TH-230		4.631	60.97	25.79	2.03	0.00E+000	9.2
TH-232		3.971	52.30	28.25	2.70	0.00E+000	6.0

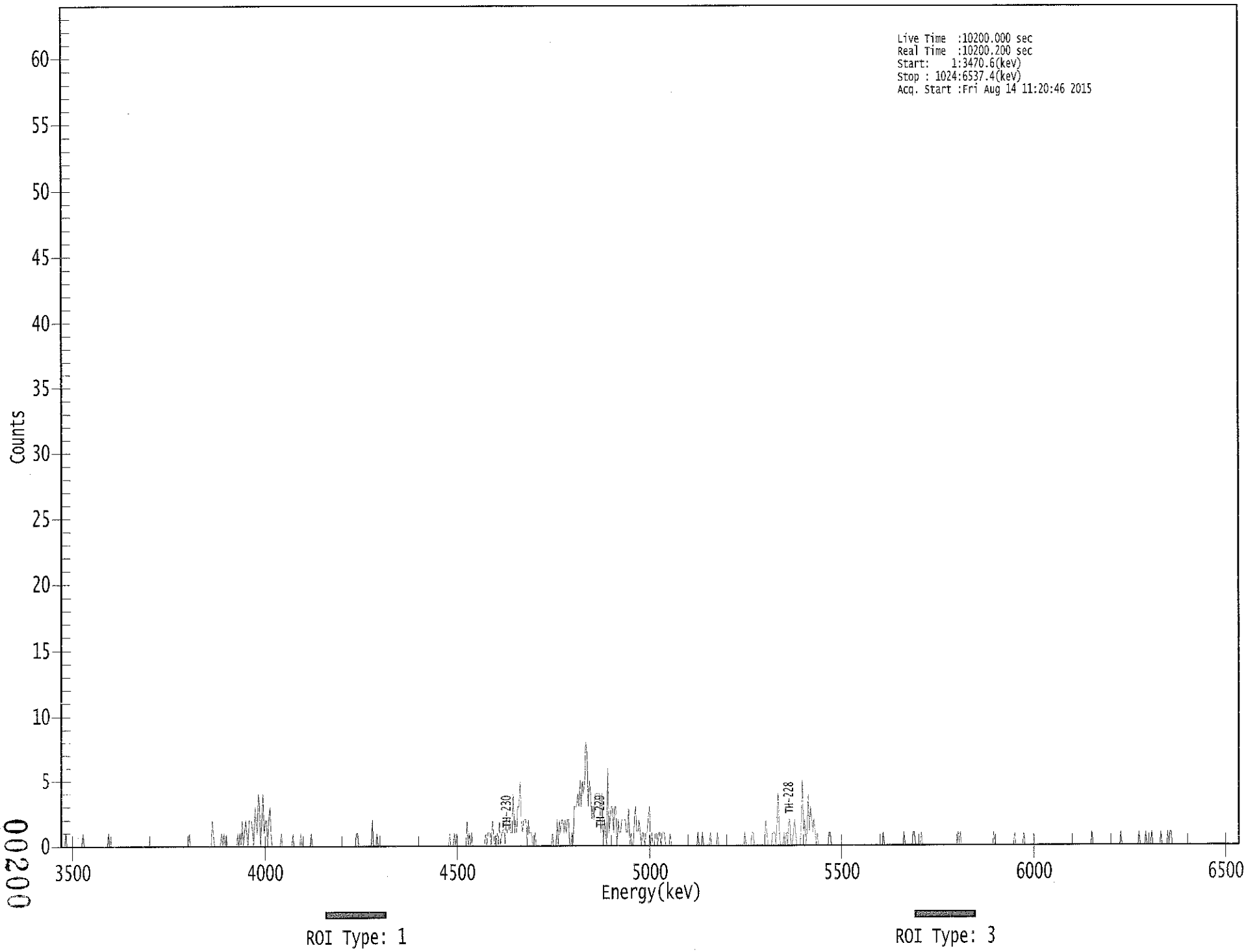
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	6.04E-002 +/- 6.76E-002	9.95E-002 +/- 1.56E-002
TH-228	0.994	5400.00*	6.94E-001 +/- 2.16E-001	7.70E-002 +/- 1.21E-002
TH-229	1.000	4872.00*	2.36E+000 +/- 3.70E-001	9.73E-002 +/- 1.53E-002
TH-230	0.991	4672.00*	7.73E-001 +/- 2.33E-001	1.11E-001 +/- 1.74E-002
TH-232	0.996	3997.00*	6.61E-001 +/- 2.14E-001	1.23E-001 +/- 1.93E-002

AG 8/14/15

0000125967.CNF



00200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	1	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	1	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	1
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	2	1	0	0	0
137:	0	0	0	1	0	1	0	1
145:	0	0	0	0	0	0	0	0
153:	0	1	0	1	0	2	0	1
161:	2	1	0	2	2	2	1	0
169:	3	2	1	4	3	0	2	4
177:	1	2	2	0	2	3	1	0
185:	0	0	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	0
201:	0	1	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	1	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	1	1	0	0	0	0	0	0
265:	0	0	0	0	0	0	2	0
273:	0	0	1	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	1	0	0	0	1	0	1
345:	0	0	0	0	0	0	0	0
353:	2	0	1	0	1	0	0	0
361:	0	0	0	0	0	0	0	0

369:	1	0	1	1	1	0	2	1

Sample Title: 07

Channel								
377:	0	0	1	0	2	0	1	1
385:	2	0	2	1	1	2	1	1
393:	4	1	2	1	3	3	5	2
401:	1	2	2	2	0	2	1	1
409:	1	0	0	1	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	1	0	0	0	2	0
433:	2	1	2	2	1	2	1	2
441:	2	0	0	1	0	3	3	3
449:	4	3	5	3	5	4	5	8
457:	7	3	5	4	2	3	2	4
465:	4	4	4	4	1	4	0	2
473:	1	0	6	1	2	3	3	1
481:	3	3	0	2	1	1	2	2
489:	2	2	1	1	3	0	1	0
497:	0	2	3	1	1	2	1	0
505:	1	1	0	1	1	2	3	0
513:	1	0	0	1	1	0	1	1
521:	0	1	1	1	0	0	0	0
529:	1	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	1	0	0	0	1	0	0	0
561:	0	0	0	1	0	0	0	0
569:	0	1	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	1	0	0	0	0	0	1
601:	1	0	0	0	0	0	0	0
609:	0	0	0	2	1	0	0	0
617:	0	1	1	1	0	2	4	1
625:	0	0	0	1	0	1	0	2
633:	2	0	0	1	2	1	0	0
641:	0	0	2	5	1	2	0	1
649:	4	1	3	2	1	2	1	0
657:	1	0	0	0	0	0	0	0
665:	0	0	1	1	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	1	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	1	0	0	0	0
737:	0	0	0	1	1	0	0	0
745:	0	0	1	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	1	0	1	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	1	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	1	0	0	0	0
833:	0	0	0	1	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	1	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	1
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	1
937:	0	0	0	0	0	1	0	0
945:	0	0	1	0	0	0	0	0
953:	0	0	1	0	0	0	0	0
961:	1	0	1	1	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 8/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-20 080-081
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 125656
Reagent Blank: <not performed>

Sample Size: 5.188E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:48 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1132 +/- 0.0119
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 0.6513 +/- 0.0694

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.917	2.32	156.76	0.68	0.00E+000	3.0
TH-228		5.341	1.00	277.19	0.00	0.00E+000	3.0
TH-229	T	4.880	100.32	19.68	0.68	0.00E+000	13.0
TH-230		4.627	30.00	36.38	0.00	0.00E+000	3.0
TH-232		3.925	8.32	72.40	0.68	0.00E+000	3.0

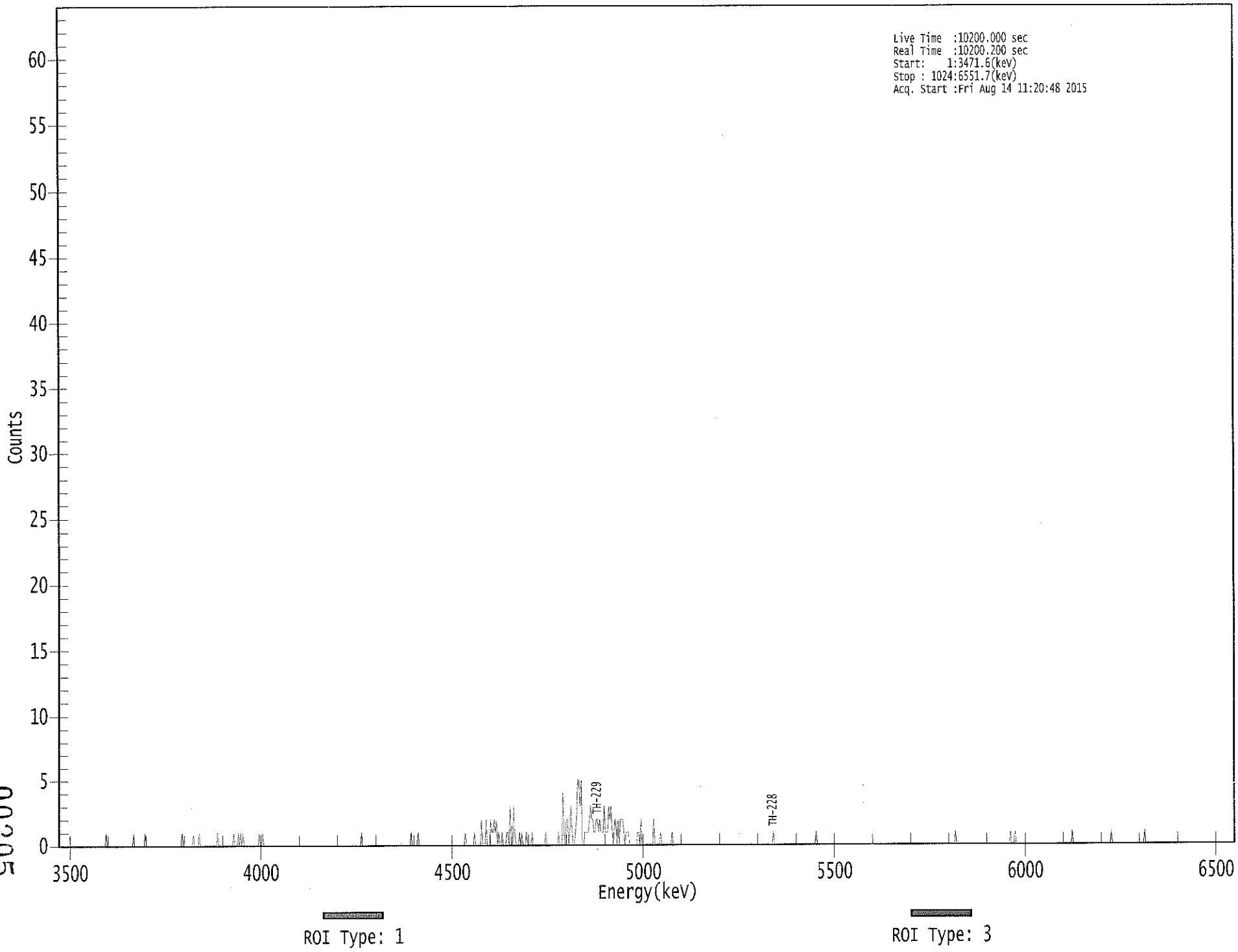
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.977	5850.00*	1.08E-001 +/- 1.70E-001	2.88E-001 +/- 5.92E-002
TH-228	0.982	5400.00*	4.59E-002 +/- 1.27E-001	2.75E-001 +/- 5.66E-002
TH-229	1.000	4872.00*	4.55E+000 +/- 9.37E-001	2.81E-001 +/- 5.80E-002
TH-230	0.989	4672.00*	1.36E+000 +/- 5.67E-001	2.71E-001 +/- 5.58E-002
TH-232	0.973	3997.00*	3.76E-001 +/- 2.83E-001	2.80E-001 +/- 5.77E-002

AG 8/14/15

0000125968.CNF



00205

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	1	0	0	0	0
113:	0	0	0	0	0	1	0	0
121:	0	0	1	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	1	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	1	0	0	0	1	0	1	0
161:	1	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	1	0
177:	0	1	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	1
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	1	0	0	0	0	0
313:	1	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	0	0	0
361:	0	1	0	0	0	0	0	2

369:	0	0	0	2	0	0	0	2

Sample Title: 08

Channel								
377:	1	1	2	1	2	0	1	0
385:	0	1	0	0	0	1	1	0
393:	3	0	0	3	1	0	0	0
401:	1	0	1	0	0	0	1	0
409:	0	0	0	1	0	0	0	0
417:	0	0	0	0	0	0	0	1
425:	0	0	0	0	0	0	0	0
433:	0	0	1	0	0	0	4	1
441:	0	2	2	0	1	3	1	0
449:	0	1	2	5	5	3	5	0
457:	0	1	1	1	1	2	3	2
465:	2	1	1	2	2	1	2	1
473:	1	1	3	1	1	1	3	2
481:	3	1	0	2	2	0	2	0
489:	2	2	2	1	0	1	1	1
497:	0	0	0	0	0	0	0	1
505:	1	0	2	0	0	0	0	0
513:	0	0	0	0	0	2	0	0
521:	0	0	0	1	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	1	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	1	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	1	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	1	0	0	0	1
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	1	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	1	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	1	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

PB 9/14/15

Sample Description: DUPLICATE 5
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 125657
Reagent Blank: <not performed>

Sample Size: 1.025E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:50 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1072 +/- 0.0116
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.5366 +/- 0.0586

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.808	5.64	93.45	1.36	0.00E+000	3.0
TH-228		5.310	7.30	81.83	1.70	0.00E+000	3.0
TH-229	T	4.869	94.98	20.24	1.02	0.00E+000	6.0
TH-230		4.635	59.32	25.62	0.68	0.00E+000	18.0
TH-232		3.955	5.83	82.55	0.17	0.00E+000	3.0

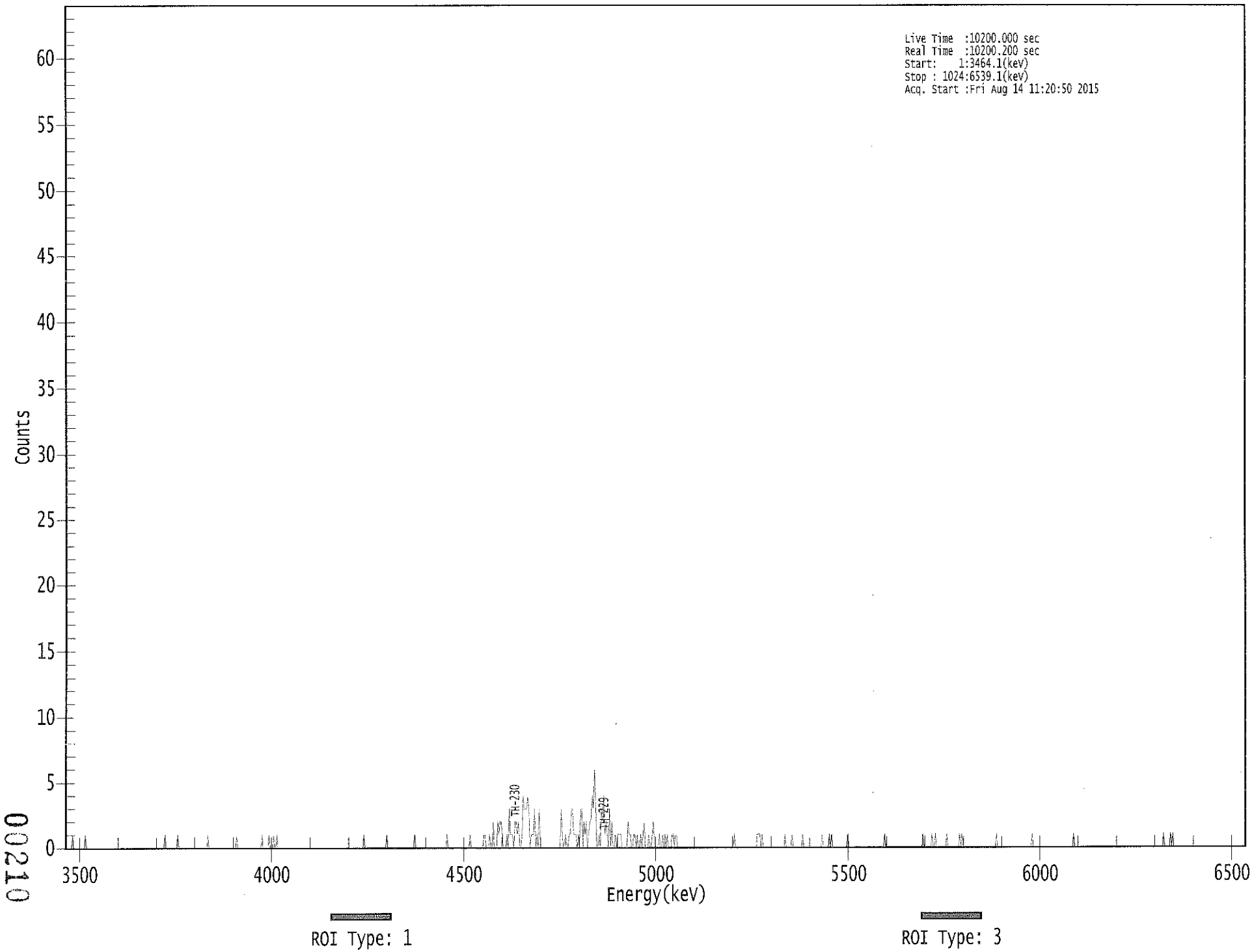
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.991	5850.00*	1.40E-001 +/- 1.34E-001	1.70E-001 +/- 3.59E-002
TH-228	0.959	5400.00*	1.79E-001 +/- 1.51E-001	1.80E-001 +/- 3.80E-002
TH-229	1.000	4872.00*	2.30E+000 +/- 4.86E-001	1.53E-001 +/- 3.23E-002
TH-230	0.993	4672.00*	1.43E+000 +/- 4.76E-001	1.36E-001 +/- 2.88E-002
TH-232	0.991	3997.00*	1.41E-001 +/- 1.20E-001	1.01E-001 +/- 2.13E-002

AG 8/14/15

0000125965.CNF



00210

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	1	0
9:	0	0	0	0	0	0	0	0
17:	0	1	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	1	0
89:	0	0	0	0	0	0	0	0
97:	0	1	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	1	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	1	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	1	0	0	0	0	0
177:	1	0	0	0	1	0	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	1	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	1	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	1	0	0	0	1

369:	0	0	2	0	0	0	2	1

Sample Title: 09

Channel								
377:	2	2	1	0	0	0	1	0
385:	3	1	1	1	0	2	2	1
393:	2	0	0	1	4	3	3	3
401:	4	3	0	1	1	1	3	0
409:	1	0	3	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	3	1	0
433:	0	1	0	0	1	1	3	3
441:	1	1	1	0	1	0	3	3
449:	0	2	1	2	0	1	2	2
457:	4	3	6	3	0	0	1	0
465:	3	2	4	1	2	1	0	3
473:	0	2	0	0	1	0	1	1
481:	1	1	0	0	0	0	0	2
489:	1	1	0	0	1	1	0	1
497:	0	0	1	0	1	2	0	0
505:	0	1	0	0	1	2	0	0
513:	0	0	1	0	0	1	0	1
521:	0	1	0	0	0	1	1	0
529:	1	1	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	1	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	1
601:	1	1	0	1	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	1
625:	0	0	0	0	0	1	0	0
633:	0	0	0	0	0	0	1	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	1
657:	0	0	0	0	0	1	0	1
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	1	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	1	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	1	0
745:	0	0	0	0	0	0	1	0
753:	0	1	0	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	1	0
777:	1	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	1	0

Sample Title: 09

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	1	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	1	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	1
953:	0	0	0	0	0	1	0	1
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KR 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-20 089-090
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 125658
Reagent Blank: <not performed>

Sample Size: 5.248E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:52 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1867 +/- 0.0156
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.0164 +/- 0.0869

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.824	8.66	68.12	0.34	0.00E+000	3.0
TH-228		5.376	49.49	28.03	0.51	0.00E+000	5.2
TH-229	T	4.904	165.66	15.25	0.34	0.00E+000	11.0
TH-230		4.647	52.83	27.02	0.17	0.00E+000	5.0
TH-232		3.981	44.32	29.70	0.68	0.00E+000	4.4

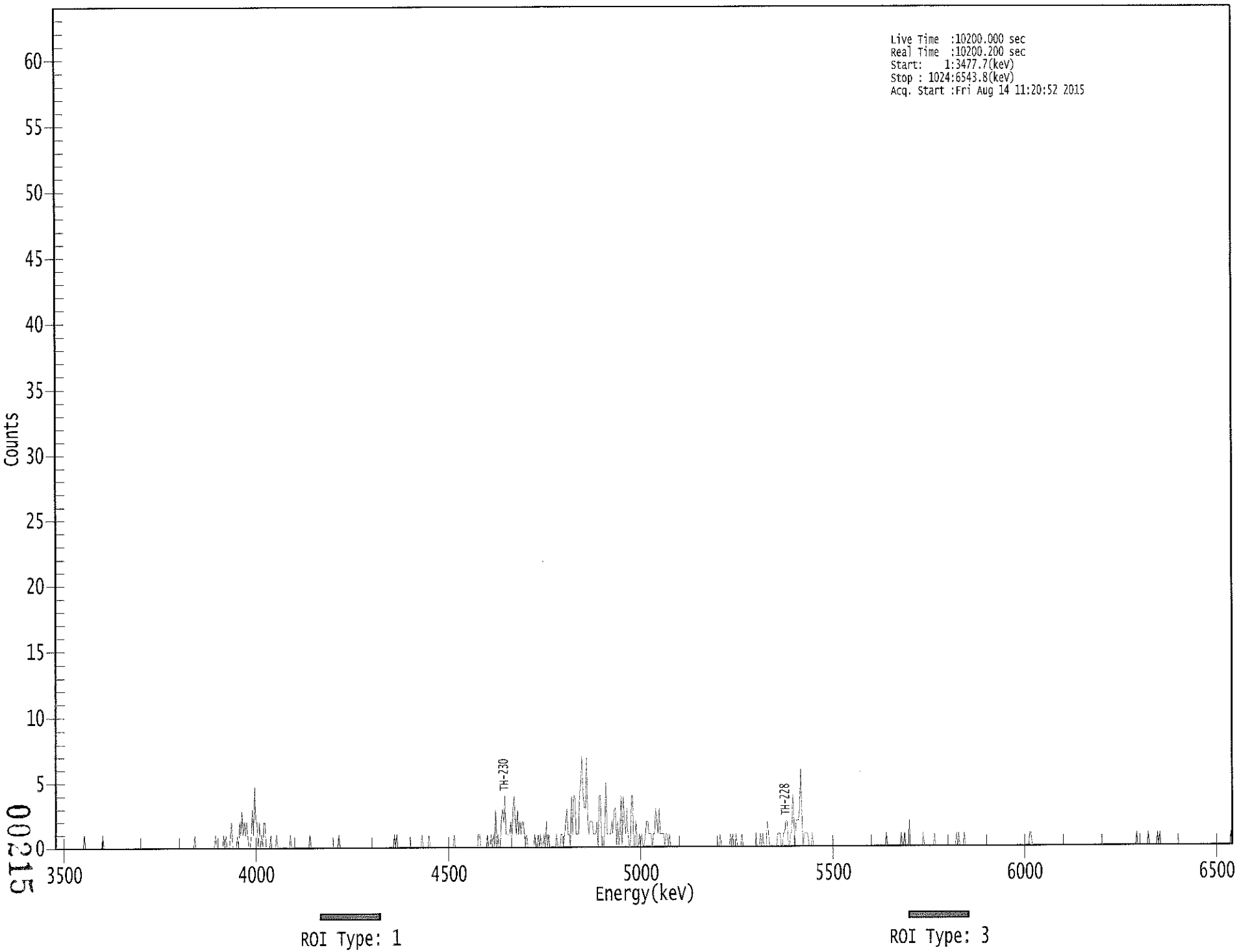
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.997	5850.00*	2.41E-001 +/- 1.69E-001	1.33E-001 +/- 2.18E-002
TH-228	0.997	5400.00*	1.36E+000 +/- 4.42E-001	1.44E-001 +/- 2.37E-002
TH-229	0.995	4872.00*	4.50E+000 +/- 7.39E-001	1.30E-001 +/- 2.13E-002
TH-230	0.997	4672.00*	1.43E+000 +/- 4.52E-001	1.13E-001 +/- 1.86E-002
TH-232	0.999	3997.00*	1.20E+000 +/- 4.07E-001	1.53E-001 +/- 2.50E-002

AE4
8/14/15

0000125961.CNF



0215 0200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	1	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	1	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	1	0	0	0	0
145:	0	0	1	0	1	0	0	0
153:	1	2	0	0	0	0	1	0
161:	2	1	3	1	2	1	2	1
169:	0	0	1	3	1	5	2	2
177:	0	2	0	1	0	2	2	0
185:	0	0	0	1	0	0	0	0
193:	1	0	0	0	0	0	0	0
201:	0	0	0	0	1	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	1	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	1	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	1	0
297:	1	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	0	0	0	1	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	1	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	1

369:	1	0	0	0	0	0	0	1

Sample Title: 10

Channel								
377:	0	0	1	0	1	0	3	0
385:	1	0	0	2	3	2	4	1
393:	1	1	1	2	0	3	4	2
401:	1	3	1	2	1	2	2	1
409:	0	1	0	0	0	0	0	0
417:	1	0	0	1	0	1	0	0
425:	1	0	2	0	1	0	0	0
433:	0	0	0	1	0	0	0	1
441:	1	0	1	2	3	1	1	0
449:	4	1	4	4	1	1	1	4
457:	5	7	4	3	3	7	2	1
465:	2	2	2	1	1	1	2	0
473:	4	4	1	0	0	2	5	1
481:	1	1	1	2	1	3	3	0
489:	2	0	1	4	0	4	2	1
497:	3	1	0	0	4	4	0	0
505:	2	0	0	1	0	1	0	0
513:	1	2	2	1	1	1	0	1
521:	1	3	2	1	3	1	1	1
529:	1	0	1	1	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	1	0	0	0	0	0	0
585:	0	0	1	0	1	0	0	1
593:	0	0	0	0	1	0	0	0
601:	0	0	0	0	0	0	0	0
609:	1	0	0	0	1	0	1	0
617:	0	0	2	1	0	0	0	0
625:	0	0	0	1	1	1	0	0
633:	1	1	2	2	0	0	1	1
641:	4	2	0	2	2	2	3	6
649:	2	0	1	1	1	1	0	0
657:	0	1	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	1	0	0	0	0	0	0
729:	0	0	0	0	0	0	1	0
737:	0	1	0	0	0	2	0	0
745:	0	0	0	0	0	0	0	0
753:	0	1	0	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	1	0
785:	1	0	0	0	0	1	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	1	1
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	1	0	0	0	0
945:	0	0	0	0	0	1	0	0
953:	0	0	0	0	0	1	0	1
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	1	0	0

JCB 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-7 084-085
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 11
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 125659
Reagent Blank: <not performed>

Sample Size: 5.700E-003 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:54 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1941 +/- 0.0161
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 1.0928 +/- 0.0928

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.865	41.98	30.68	1.02	0.00E+000	4.5
TH-228		5.255	-0.06	6128.9	3.06	0.00E+000	3.0
TH-229	T	4.876	171.94	15.10	3.06	0.00E+000	5.3
TH-230		4.634	6961.26	2.35	3.74	0.00E+000	55.7
TH-232		3.947	74.43	23.35	3.57	0.00E+000	4.5

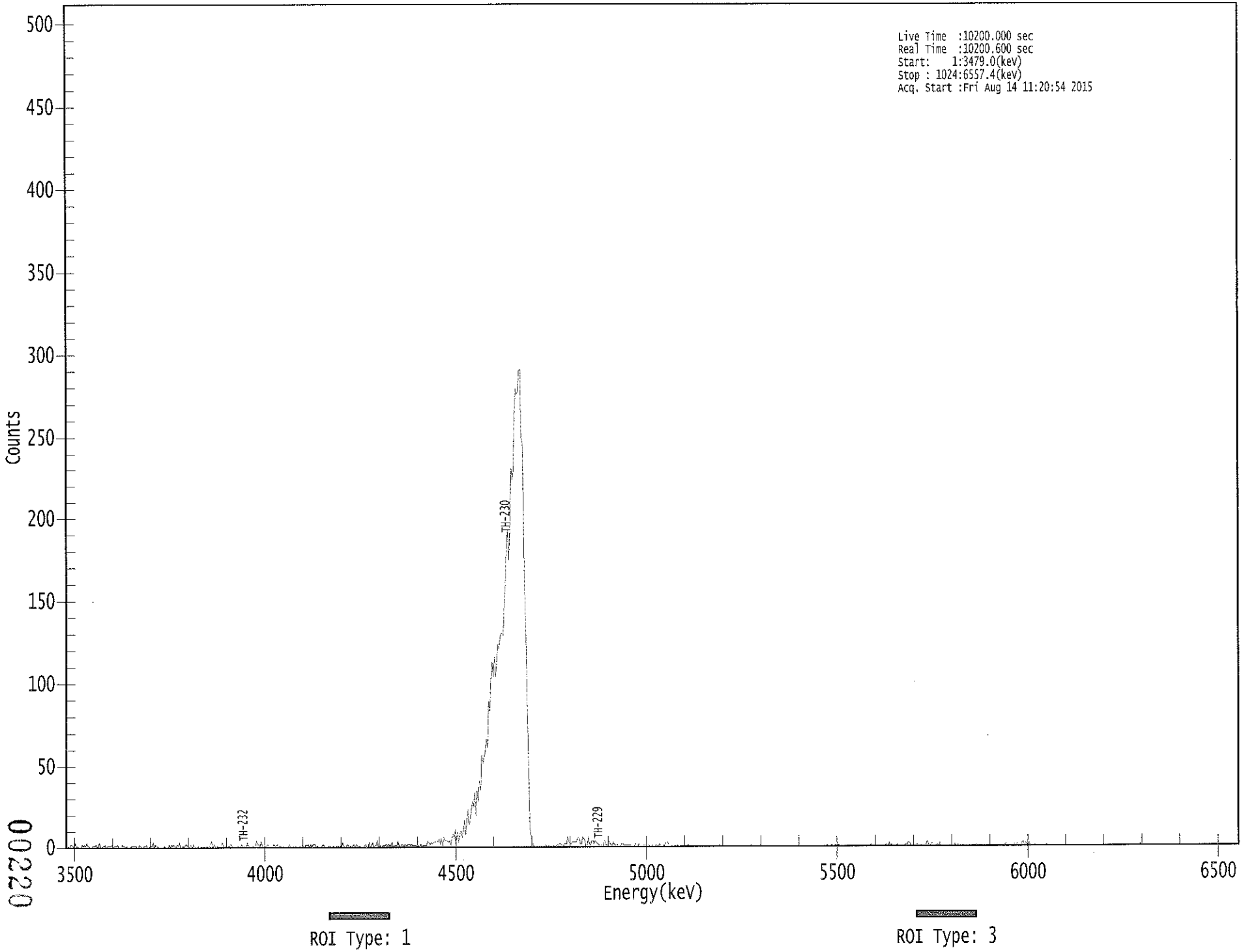
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	1.03E+002 +/- 3.59E+001	1.55E+001 +/- 2.52E+000
TH-228	0.897	5400.00*	-1.47E-001 +/- 9.00E+000	2.19E+001 +/- 3.56E+000
TH-229	1.000	4872.00*	4.14E+002 +/- 6.74E+001	2.15E+001 +/- 3.50E+000
TH-230	0.992	4672.00*	1.67E+004 +/- 2.75E+003	2.30E+001 +/- 3.75E+000
TH-232	0.987	3997.00*	1.78E+002 +/- 5.07E+001	2.26E+001 +/- 3.68E+000

AG
8/14/15

0000125962.CNF



02200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	1	0	2	2	1	0
9:	3	0	1	0	0	0	2	1
17:	2	1	3	1	1	0	0	1
25:	1	1	2	1	0	3	1	0
33:	1	1	2	0	1	1	1	1
41:	2	0	1	1	1	2	0	0
49:	0	2	1	1	0	1	0	0
57:	0	1	1	1	1	1	0	0
65:	2	1	0	0	1	1	2	0
73:	0	1	1	1	3	0	2	0
81:	1	0	0	0	0	0	1	0
89:	0	0	2	0	2	1	2	1
97:	0	2	1	3	0	0	1	0
105:	2	2	1	0	1	2	0	2
113:	0	0	0	1	0	0	0	0
121:	0	0	0	1	0	1	2	4
129:	0	2	1	0	1	1	0	1
137:	3	2	0	1	0	1	0	2
145:	2	0	0	0	0	1	1	0
153:	0	2	0	1	0	0	3	1
161:	1	0	1	1	0	0	4	2
169:	2	0	4	1	0	0	1	1
177:	2	0	0	0	0	2	1	0
185:	2	1	1	1	0	1	0	0
193:	0	0	1	2	0	0	1	0
201:	1	0	0	0	1	0	2	1
209:	0	2	1	2	0	2	0	2
217:	2	2	0	1	0	0	0	1
225:	2	1	0	0	0	1	1	0
233:	0	1	0	0	1	1	0	1
241:	0	3	1	0	0	2	1	0
249:	1	0	1	2	0	2	1	0
257:	1	0	0	0	1	2	0	0
265:	3	0	1	3	0	1	1	4
273:	1	0	1	0	1	1	1	2
281:	1	2	1	1	3	0	1	1
289:	1	4	1	0	2	2	0	2
297:	1	1	2	2	1	2	1	1
305:	1	1	0	1	0	2	0	1
313:	1	1	1	4	3	1	3	2
321:	3	3	4	4	3	5	2	5
329:	1	6	4	4	4	3	4	1
337:	6	8	6	11	4	9	3	8
345:	10	6	11	16	7	16	23	14
353:	16	23	28	25	34	19	35	28
361:	41	35	57	52	55	59	66	61

369:	89	83	102	113	104	116	104	111

Sample Title: 11

Channel								
377:	123	121	127	130	130	129	151	160
385:	188	193	174	192	231	224	229	263
393:	279	276	277	290	291	250	245	187
401:	156	114	83	46	12	6	3	1
409:	0	0	0	0	0	0	0	0
417:	0	1	1	0	1	0	0	0
425:	0	1	0	1	2	1	2	2
433:	1	0	2	2	2	6	3	2
441:	2	3	3	3	3	4	6	5
449:	2	2	6	5	4	0	1	6
457:	2	1	4	4	2	4	3	2
465:	2	0	1	1	0	4	3	0
473:	1	4	2	1	1	3	1	1
481:	2	0	0	0	2	2	1	1
489:	1	1	1	1	1	0	0	0
497:	2	0	0	2	1	0	0	1
505:	1	1	1	0	1	0	0	1
513:	1	0	1	1	0	2	0	1
521:	1	0	2	3	3	1	1	1
529:	0	0	0	0	0	1	0	0
537:	0	0	0	1	0	0	1	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	1	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	1	0	0
601:	0	0	0	0	0	1	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	1
665:	0	0	0	1	0	0	1	0
673:	0	1	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	1	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	1	0	0	2	0	1
721:	0	0	0	0	1	0	0	0
729:	0	0	0	1	0	2	2	2
737:	0	0	0	0	1	1	1	0
745:	0	1	0	0	0	1	3	1
753:	0	1	2	1	0	0	1	1
761:	0	2	0	0	0	0	0	0
769:	0	0	1	1	0	0	1	0
777:	0	1	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	1	0	0	0	0	0	0

801:	1	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	1	2	1	0	0	0
825:	0	0	1	0	0	2	1	0
833:	0	2	3	0	2	1	0	2
841:	0	0	0	0	1	0	0	0
849:	0	0	0	0	0	0	1	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	1	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

8/14/2015 6:47:28 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 8/14/2015
Time : 6:47:28 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	8/14/2015 5:00:48 AM
Alpha_004	21f	ALL	Passed	8/14/2015 5:00:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	8/14/2015 5:00:49 AM
Alpha_011	21f	ALL	Passed	8/14/2015 5:00:50 AM
Alpha_012	21f	ALL	Passed	8/14/2015 5:00:51 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	8/14/2015 5:00:52 AM
Alpha_015	21f	ALL	Passed	8/14/2015 5:00:53 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:54 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:57 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:58 AM
Alpha_037	Alpha Analyst100DC	Peak FWHM	Action	8/14/2015 5:01:00 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	8/14/2015 5:01:02 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:03 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:05 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:07 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:09 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:10 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:12 AM
Alpha_045	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:14 AM
Alpha_046	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:16 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:18 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:20 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:22 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:24 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:26 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:28 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:30 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:32 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:33 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:35 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:37 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:39 AM

Review of QA Results - Pulser Check

8/14/2015 6:47:28 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:41 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:43 AM

APPROVED BY: _____

APPROVAL DATE: 8/14

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

15-08002
Gamma
Run 1

Work Order	15-08002
Analysis Code	Gamma
Run	1
Date Received	8/3/2015
Lab Deadline	8/25/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		08/03/15 00:00	1.0000E+00
02	MBL	BLANK		08/03/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-8 075-076	82	07/29/15 09:06	3.2574E+02
04	DO	FEEBRIS1D-8 075-076	82	07/29/15 09:06	3.2574E+02
05	TRG	FEEBRIS1D-8 090-091	65	07/29/15 09:41	6.5203E+02
06	TRG	FEEBRIS1D-4 061-062	90	07/30/15 07:35	5.6056E+02
07	TRG	FEEBRIS1D-4 064-065	69	07/30/15 07:40	6.0831E+02
08	TRG	FEEBRIS1D-20 080-081	153	07/30/15 09:57	6.7845E+02
09	TRG	DUPLICATE 5	77	07/30/15 09:57	6.3034E+02
10	TRG	FEEBRIS1D-20 089-090	101	07/30/15 10:24	5.0074E+02
11	TRG	FEEBRIS1D-7 084-085	7570	07/24/15 08:07	5.0288E+02

00228

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-08002
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								
05	TRG				0.00								
06	TRG				0.00								
07	TRG				0.00								
08	TRG				0.00								
09	TRG				0.00								
10	TRG				0.00								
11	TRG				0.00								

00229

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	08/04/15 07:03	KSALLINGS						
05	TRG	08/04/15 07:03	KSALLINGS						
06	TRG	08/04/15 07:03	KSALLINGS						
07	TRG	08/04/15 07:03	KSALLINGS						
08	TRG	08/04/15 07:03	KSALLINGS						
09	TRG	08/04/15 07:03	KSALLINGS						
10	TRG	08/04/15 07:03	KSALLINGS						
11	TRG	08/04/15 07:03	KSALLINGS						

00230

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-08002-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.33E+02	9.19E+00	1.47E+00	1.37E+02	97.31	OK		08/03/15 00:00	1.00E+00	08/25/15 15:31	YES
01	CS-137	LCS	LCS	pCi/g	8.51E+01	8.25E+00	2.67E+00	8.69E+01	97.87	OK		08/03/15 00:00	1.00E+00	08/25/15 15:31	YES
02	AC-228	MBL	BLANK	pCi/g	-1.94E-02	1.44E-01	2.31E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	BI-214	MBL	BLANK	pCi/g	4.77E-02	8.26E-02	1.51E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	K-40	MBL	BLANK	pCi/g	-2.13E-01	3.70E-01	3.92E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PA-231	MBL	BLANK	pCi/g	-3.96E-01	1.18E+00	1.76E+00					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PB-210	MBL	BLANK	pCi/g	3.95E-01	3.31E-01	5.52E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PB-212	MBL	BLANK	pCi/g	5.06E-02	6.04E-02	1.04E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PB-214	MBL	BLANK	pCi/g	1.45E-03	7.97E-02	1.29E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	RA-226	MBL	BLANK	pCi/g	4.77E-02	8.26E-02	1.51E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	RA-228	MBL	BLANK	pCi/g	-1.94E-02	1.44E-01	2.31E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	TH-234	MBL	BLANK	pCi/g	2.25E-01	3.99E-01	6.49E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	TL-208	MBL	BLANK	pCi/g	-1.57E-02	1.01E-01	1.67E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
03	AC-228	DUP	FEEBRIS1D-8 075-076	pCi/g	9.43E-01	2.64E-01	4.96E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	BI-214	DUP	FEEBRIS1D-8 075-076	pCi/g	4.54E+00	4.11E-01	4.05E-01				NA	07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	K-40	DUP	FEEBRIS1D-8 075-076	pCi/g	1.07E+01	1.81E+00	1.46E+00				NA	07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	PA-231	DUP	FEEBRIS1D-8 075-076	pCi/g	9.77E-01	2.20E+00	3.69E+00					07/29/15 09:06	3.26E+02	08/25/15 15:24	NO
03	PB-210	DUP	FEEBRIS1D-8 075-076	pCi/g	3.44E+00	2.65E+00	4.36E+00					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	PB-212	DUP	FEEBRIS1D-8 075-076	pCi/g	7.87E-01	1.46E-01	3.18E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	PB-214	DUP	FEEBRIS1D-8 075-076	pCi/g	4.91E+00	4.13E-01	3.74E-01				NA	07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	RA-226	DUP	FEEBRIS1D-8 075-076	pCi/g	4.54E+00	4.11E-01	4.05E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	RA-228	DUP	FEEBRIS1D-8 075-076	pCi/g	9.43E-01	2.64E-01	4.96E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	TH-234	DUP	FEEBRIS1D-8 075-076	pCi/g	2.60E+00	2.08E+00	3.45E+00					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	TL-208	DUP	FEEBRIS1D-8 075-076	pCi/g	6.46E-01	1.58E-01	1.79E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
04	AC-228	DO	FEEBRIS1D-8 075-076	pCi/g	8.91E-01	2.63E-01	5.15E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	BI-214	DO	FEEBRIS1D-8 075-076	pCi/g	4.37E+00	3.93E-01	3.17E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	K-40	DO	FEEBRIS1D-8 075-076	pCi/g	9.44E+00	1.82E+00	1.86E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	PA-231	DO	FEEBRIS1D-8 075-076	pCi/g	-2.58E-01	2.05E+00	3.32E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	NO
04	PB-210	DO	FEEBRIS1D-8 075-076	pCi/g	3.10E+00	2.16E+00	3.51E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	PB-212	DO	FEEBRIS1D-8 075-076	pCi/g	9.99E-01	1.67E-01	3.13E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	PB-214	DO	FEEBRIS1D-8 075-076	pCi/g	4.96E+00	4.07E-01	3.75E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	RA-226	DO	FEEBRIS1D-8 075-076	pCi/g	4.37E+00	3.93E-01	3.17E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	RA-228	DO	FEEBRIS1D-8 075-076	pCi/g	8.91E-01	2.63E-01	5.15E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	TH-234	DO	FEEBRIS1D-8 075-076	pCi/g	1.10E+00	2.18E+00	2.87E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	NO
04	TL-208	DO	FEEBRIS1D-8 075-076	pCi/g	8.60E-01	2.01E-01	1.79E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
05	AC-228	TRG	FEEBRIS1D-8 090-091	pCi/g	6.85E-01	1.80E-01	3.58E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	BI-214	TRG	FEEBRIS1D-8 090-091	pCi/g	5.07E-01	9.60E-02	1.33E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	K-40	TRG	FEEBRIS1D-8 090-091	pCi/g	1.56E+01	2.00E+00	6.90E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES

Work Order: 15-08002-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
05	PA-231	TRG	FEEBRIS1D-8 090-091	pCi/g	-3.20E-01	6.56E-01	1.62E+00					07/29/15 09:41	6.52E+02	08/25/15 16:16	NO
05	PB-210	TRG	FEEBRIS1D-8 090-091	pCi/g	2.94E+00	1.57E+00	2.48E+00					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	PB-212	TRG	FEEBRIS1D-8 090-091	pCi/g	6.14E-01	9.78E-02	1.68E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	PB-214	TRG	FEEBRIS1D-8 090-091	pCi/g	6.57E-01	1.02E-01	1.59E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	RA-226	TRG	FEEBRIS1D-8 090-091	pCi/g	5.07E-01	9.60E-02	1.33E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	RA-228	TRG	FEEBRIS1D-8 090-091	pCi/g	6.85E-01	1.80E-01	3.58E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	TH-234	TRG	FEEBRIS1D-8 090-091	pCi/g	1.09E+00	6.54E-01	1.08E+00					07/29/15 09:41	6.52E+02	08/25/15 16:16	NO
05	TL-208	TRG	FEEBRIS1D-8 090-091	pCi/g	5.26E-01	1.04E-01	9.89E-02					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
06	AC-228	TRG	FEEBRIS1D-4 061-062	pCi/g	1.15E+00	2.63E-01	4.96E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	BI-214	TRG	FEEBRIS1D-4 061-062	pCi/g	1.25E+00	1.87E-01	2.05E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	K-40	TRG	FEEBRIS1D-4 061-062	pCi/g	1.93E+01	2.36E+00	9.09E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	PA-231	TRG	FEEBRIS1D-4 061-062	pCi/g	4.16E-01	1.05E+00	3.27E+00					07/30/15 07:35	5.61E+02	08/25/15 16:23	NO
06	PB-210	TRG	FEEBRIS1D-4 061-062	pCi/g	3.26E+00	2.12E+00	3.47E+00					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	PB-212	TRG	FEEBRIS1D-4 061-062	pCi/g	1.35E+00	1.61E-01	2.55E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	PB-214	TRG	FEEBRIS1D-4 061-062	pCi/g	1.23E+00	1.67E-01	2.72E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	RA-226	TRG	FEEBRIS1D-4 061-062	pCi/g	1.25E+00	1.87E-01	2.05E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	RA-228	TRG	FEEBRIS1D-4 061-062	pCi/g	1.15E+00	2.63E-01	4.96E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	TH-234	TRG	FEEBRIS1D-4 061-062	pCi/g	2.19E+00	2.12E+00	3.53E+00					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	TL-208	TRG	FEEBRIS1D-4 061-062	pCi/g	9.71E-01	1.92E-01	1.93E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
07	AC-228	TRG	FEEBRIS1D-4 064-065	pCi/g	6.99E-01	1.72E-01	3.23E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	BI-214	TRG	FEEBRIS1D-4 064-065	pCi/g	8.59E-01	1.48E-01	2.13E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	K-40	TRG	FEEBRIS1D-4 064-065	pCi/g	1.49E+01	1.96E+00	1.08E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	PA-231	TRG	FEEBRIS1D-4 064-065	pCi/g	-2.56E-01	7.23E-01	1.86E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	NO
07	PB-210	TRG	FEEBRIS1D-4 064-065	pCi/g	1.37E+00	1.49E+00	2.48E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	PB-212	TRG	FEEBRIS1D-4 064-065	pCi/g	6.84E-01	1.09E-01	1.81E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	PB-214	TRG	FEEBRIS1D-4 064-065	pCi/g	8.20E-01	1.20E-01	2.16E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	RA-226	TRG	FEEBRIS1D-4 064-065	pCi/g	8.59E-01	1.48E-01	2.13E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	RA-228	TRG	FEEBRIS1D-4 064-065	pCi/g	6.99E-01	1.72E-01	3.23E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	TH-234	TRG	FEEBRIS1D-4 064-065	pCi/g	1.50E+00	7.22E-01	1.21E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	NO
07	TL-208	TRG	FEEBRIS1D-4 064-065	pCi/g	5.47E-01	1.04E-01	1.35E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
08	AC-228	TRG	FEEBRIS1D-20 080-081	pCi/g	8.10E-02	9.61E-02	1.69E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	BI-214	TRG	FEEBRIS1D-20 080-081	pCi/g	7.14E-01	9.14E-02	4.31E-02					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	K-40	TRG	FEEBRIS1D-20 080-081	pCi/g	1.72E+00	4.93E-01	5.44E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	PA-231	TRG	FEEBRIS1D-20 080-081	pCi/g	3.89E-01	7.52E-01	1.30E+00					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	PB-210	TRG	FEEBRIS1D-20 080-081	pCi/g	9.23E-01	6.41E-01	1.53E+00					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	PB-212	TRG	FEEBRIS1D-20 080-081	pCi/g	1.43E-01	4.77E-02	1.20E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	PB-214	TRG	FEEBRIS1D-20 080-081	pCi/g	6.81E-01	1.00E-01	1.38E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	RA-226	TRG	FEEBRIS1D-20 080-081	pCi/g	7.14E-01	9.14E-02	4.31E-02					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES

00232

Work Order: 15-08002-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
08	RA-228	TRG	FEEBRIS1D-20 080-081	pCi/g	8.10E-02	9.61E-02	1.69E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	TH-234	TRG	FEEBRIS1D-20 080-081	pCi/g	2.10E+00	7.72E-01	1.16E+00					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	TL-208	TRG	FEEBRIS1D-20 080-081	pCi/g	9.86E-02	6.12E-02	1.09E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
09	AC-228	TRG	DUPLICATE 5	pCi/g	5.29E-02	1.53E-01	2.57E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	BI-214	TRG	DUPLICATE 5	pCi/g	8.35E-01	1.27E-01	1.23E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	K-40	TRG	DUPLICATE 5	pCi/g	1.97E+00	7.75E-01	1.04E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	PA-231	TRG	DUPLICATE 5	pCi/g	8.25E-01	1.25E+00	2.00E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	PB-210	TRG	DUPLICATE 5	pCi/g	1.86E+00	1.19E+00	1.64E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	PB-212	TRG	DUPLICATE 5	pCi/g	1.90E-01	6.67E-02	1.67E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	PB-214	TRG	DUPLICATE 5	pCi/g	8.35E-01	1.16E-01	1.68E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	RA-226	TRG	DUPLICATE 5	pCi/g	8.35E-01	1.27E-01	1.23E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	RA-228	TRG	DUPLICATE 5	pCi/g	5.29E-02	1.53E-01	2.57E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	TH-234	TRG	DUPLICATE 5	pCi/g	1.87E+00	1.01E+00	1.42E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	TL-208	TRG	DUPLICATE 5	pCi/g	8.43E-02	1.23E-01	2.07E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
10	AC-228	TRG	FEEBRIS1D-20 089-090	pCi/g	1.15E+00	2.26E-01	4.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	BI-214	TRG	FEEBRIS1D-20 089-090	pCi/g	1.33E+00	1.77E-01	2.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	K-40	TRG	FEEBRIS1D-20 089-090	pCi/g	1.95E+01	2.51E+00	7.60E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	PA-231	TRG	FEEBRIS1D-20 089-090	pCi/g	-1.53E+00	2.17E+00	2.53E+00					07/30/15 10:24	5.01E+02	08/25/15 18:18	NO
10	PB-210	TRG	FEEBRIS1D-20 089-090	pCi/g	2.65E+00	2.20E+00	3.63E+00					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	PB-212	TRG	FEEBRIS1D-20 089-090	pCi/g	1.24E+00	1.66E-01	2.64E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	PB-214	TRG	FEEBRIS1D-20 089-090	pCi/g	1.27E+00	1.68E-01	2.21E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	RA-226	TRG	FEEBRIS1D-20 089-090	pCi/g	1.33E+00	1.77E-01	2.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	RA-228	TRG	FEEBRIS1D-20 089-090	pCi/g	1.15E+00	2.26E-01	4.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	TH-234	TRG	FEEBRIS1D-20 089-090	pCi/g	1.79E+00	9.26E-01	1.54E+00					07/30/15 10:24	5.01E+02	08/25/15 18:18	NO
10	TL-208	TRG	FEEBRIS1D-20 089-090	pCi/g	9.94E-01	1.67E-01	1.64E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
11	AC-228	TRG	FEEBRIS1D-7 084-085	pCi/g	3.18E+01	9.30E+00	1.67E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	BI-214	TRG	FEEBRIS1D-7 084-085	pCi/g	3.63E+03	1.55E+02	1.17E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	K-40	TRG	FEEBRIS1D-7 084-085	pCi/g	2.79E+01	2.52E+01	4.20E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	PA-231	TRG	FEEBRIS1D-7 084-085	pCi/g	-2.63E+02	1.29E+02	1.55E+02					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO
11	PB-210	TRG	FEEBRIS1D-7 084-085	pCi/g	5.58E+02	1.04E+02	1.42E+02					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	PB-212	TRG	FEEBRIS1D-7 084-085	pCi/g	-1.08E+03	9.53E+01	9.09E+00					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO
11	PB-214	TRG	FEEBRIS1D-7 084-085	pCi/g	3.94E+03	2.51E+02	1.83E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	RA-226	TRG	FEEBRIS1D-7 084-085	pCi/g	3.63E+03	1.55E+02	1.17E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	RA-228	TRG	FEEBRIS1D-7 084-085	pCi/g	3.18E+01	9.30E+00	1.67E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	TH-234	TRG	FEEBRIS1D-7 084-085	pCi/g	8.23E+00	3.63E+01	5.29E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO
11	TL-208	TRG	FEEBRIS1D-7 084-085	pCi/g	1.40E+00	4.14E+00	3.24E+00					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO

Count Room Report
Client: AMO Environmental Decisio

15-08002-Gamma-1 (pCi/g) in SO
Tracer ID:

Printed: 8/4/2015 11:29 AM
Page 1 of 1

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	08/03/15 00:00	1.0000				0.00		
02	MBL	BLANK	08/03/15 00:00	1.0000				0.00		
03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	325.7400				0.00		
04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	325.7400				0.00		
05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	652.0300				0.00		
06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	560.5600				0.00		
07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	608.3100				0.00		
08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	678.4500				0.00		
09	TRG	DUPLICATE 5	07/30/15 09:57	630.3400				0.00		
10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	500.7400				0.00		
11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	502.8800				0.00		

00234

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404•352•8677
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CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

00235

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/4/2015 11:29 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-08002	1	Gamma	grams	8/25/2015	KSALLINGS

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-8 075-076	DUP					3.2574E+02	3.2574E+02				
04	FEEBRIS1D-8 075-076	DO					3.2574E+02	3.2574E+02				
05	FEEBRIS1D-8 090-091	TRG					6.5203E+02	6.5203E+02				
06	FEEBRIS1D-4 061-062	TRG					5.6056E+02	5.6056E+02				
07	FEEBRIS1D-4 064-065	TRG					6.0831E+02	6.0831E+02				
08	FEEBRIS1D-20 080-081	TRG					6.7845E+02	6.7845E+02				
09	DUPLICATE 5	TRG					6.3034E+02	6.3034E+02				
10	FEEBRIS1D-20 089-090	TRG					5.0074E+02	5.0074E+02				
11	FEEBRIS1D-7 084-085	TRG					5.0288E+02	5.0288E+02				

Comments	

002236

Technician: Kenny Sallings Date: 8/4/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 8/4/2015 7:03 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-08002	8/25/2015	8/3/2015	8/4/2015	8/5/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-8 075-076	29.1400	1285.8400	939.6200	1256.7000	910.4800	27.55%	72.45%			
05	FEEBRIS1D-8 090-091	14.5200	1361.5600	1123.6600	1347.0400	1109.1400	17.66%	82.34%			
06	FEEBRIS1D-4 061-062	28.9300	1585.4000	1326.6400	1556.4700	1297.7100	16.62%	83.38%			
07	FEEBRIS1D-4 064-065	29.0900	1146.8400	987.6800	1117.7500	958.5900	14.24%	85.76%			
08	FEEBRIS1D-20 080-081	29.0500	1884.4500	1712.7000	1855.4000	1683.6500	9.26%	90.74%			
09	DUPLICATE 5	29.3000	1915.5000	1753.4000	1886.2000	1724.1000	8.59%	91.41%			
10	FEEBRIS1D-20 089-090	29.0600	1419.9000	1184.3000	1390.8400	1155.2400	16.94%	83.06%			
11	FEEBRIS1D-7 084-085	14.5600	643.0500	530.1000	628.4900	515.5400	17.97%	82.03%			

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

00237

Technician: Kenny Sallings Date: **Analysis: Rough Prep Logbook**

Analysis: Gamma Page No. 9363

KB 8/25/15

Apex-Gamma

Analysis Report for 1508002-01
GAS-1302

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 10:33:18AM
Acquisition Started	: 8/25/2015 3:31:36PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1823.3 seconds
Dead Time	: 1.28 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 14 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 26404

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 8/26/15

00238

Analysis Report for 1508002-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 4:02:04PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	22.33	21.58	0.0000	0.00
2	31.92	31.17	0.0000	0.00
3	53.81	53.07	0.0000	0.00
4	59.38	58.65	0.0000	0.00
5	67.74	67.01	0.0000	0.00
6	87.78	87.05	0.0000	0.00
7	121.83	121.11	0.0000	0.00
8	136.38	135.68	0.0000	0.00
9	165.71	165.02	0.0000	0.00
10	188.64	187.95	0.0000	0.00
11	216.81	216.14	0.0000	0.00
12	392.29	391.70	0.0000	0.00
13	512.66	512.12	0.0000	0.00
14	609.93	609.44	0.0000	0.00
15	661.67	661.21	0.0000	0.00
16	698.77	698.32	0.0000	0.00
17	724.56	724.13	0.0000	0.00
18	898.18	897.83	0.0000	0.00
19	1149.17	1148.96	0.0000	0.00
20	1164.81	1164.61	0.0000	0.00
21	1173.29	1173.09	0.0000	0.00
22	1237.59	1237.43	0.0000	0.00
23	1332.56	1332.45	0.0000	0.00
24	1371.82	1371.73	0.0000	0.00
25	1418.65	1418.60	0.0000	0.00
26	1463.68	1463.66	0.0000	0.00
27	1601.30	1601.36	0.0000	0.00
28	1720.82	1720.95	0.0000	0.00
29	1731.68	1731.82	0.0000	0.00
30	1835.87	1836.08	0.0000	0.00
31	1946.28	1946.56	0.0000	0.00
32	2112.44	2112.84	0.0000	0.00
33	2246.56	2247.05	0.0000	0.00
34	2319.17	2319.71	0.0000	0.00
35	2505.88	2506.57	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	22.33	19 -	25	21.58	8.09E+04	816.62	6.37E+04	2.56
	2	31.92	29 -	34	31.17	1.27E+03	239.20	1.05E+04	2.42
M	3	53.81	42 -	62	53.07	1.87E+04	1000.50	5.64E+04	6.63
m	4	59.38	42 -	62	58.65	5.63E+04	603.34	1.91E+04	2.35
	5	67.74	64 -	70	67.01	7.36E+02	346.88	2.15E+04	3.14
	6	87.78	80 -	93	87.05	2.87E+04	655.50	3.43E+04	2.46
	7	121.83	114 -	126	121.11	6.58E+03	439.97	1.96E+04	2.46
	8	136.38	133 -	140	135.68	4.41E+02	264.99	1.14E+04	2.20
	9	165.71	160 -	168	165.02	9.88E+02	277.13	1.12E+04	2.77
	10	188.64	185 -	192	187.95	2.03E+02	243.61	9.77E+03	3.61
	11	216.81	213 -	220	216.14	2.64E+02	238.30	9.30E+03	4.91
	12	392.29	388 -	395	391.70	3.01E+02	176.47	4.98E+03	2.37
	13	512.66	509 -	516	512.12	1.32E+02	147.38	3.52E+03	2.73
	14	609.93	607 -	613	609.44	1.18E+02	115.32	2.35E+03	1.70
	15	661.67	653 -	668	661.21	1.21E+04	316.80	5.21E+03	2.63
	16	698.77	692 -	703	698.32	2.16E+02	162.14	3.17E+03	6.34
	17	724.56	721 -	728	724.13	1.06E+02	118.59	2.28E+03	4.69
	18	898.18	894 -	902	897.83	2.44E+02	152.14	3.41E+03	1.94
	19	1149.17	1146 -	1153	1148.96	7.84E+01	87.95	1.25E+03	2.33
M	20	1164.81	1161 -	1179	1164.61	9.09E+01	74.56	9.77E+02	3.51
m	21	1173.29	1161 -	1179	1173.09	1.00E+04	215.81	1.06E+03	2.73
	22	1237.59	1231 -	1245	1237.43	1.29E+02	76.49	5.59E+02	12.16
	23	1332.56	1326 -	1339	1332.45	9.13E+03	199.94	3.75E+02	2.87
	24	1371.82	1369 -	1375	1371.73	1.57E+01	18.55	4.26E+01	2.33
	25	1418.65	1413 -	1424	1418.60	2.64E+01	25.77	6.32E+01	4.09
	26	1463.68	1459 -	1469	1463.66	2.67E+01	25.99	7.27E+01	5.14
	27	1601.30	1596 -	1608	1601.36	2.13E+01	26.40	7.35E+01	9.65
	28	1720.82	1718 -	1724	1720.95	1.16E+01	11.88	1.67E+01	2.40
	29	1731.68	1729 -	1735	1731.82	9.00E+00	10.63	1.40E+01	1.78
	30	1835.87	1828 -	1843	1836.08	1.39E+02	30.92	4.00E+01	3.19
	31	1946.28	1942 -	1950	1946.56	1.13E+01	11.35	1.15E+01	1.34
	32	2112.44	2108 -	2119	2112.84	1.06E+01	11.83	1.28E+01	5.02
	33	2246.56	2241 -	2252	2247.05	1.13E+01	9.59	5.50E+00	7.42
	34	2319.17	2315 -	2322	2319.71	7.00E+00	5.29	0.00E+00	2.14
	35	2505.88	2501 -	2510	2506.57	4.60E+01	13.56	0.00E+00	2.41

Analysis Report for 1508002-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	22.33	19 -	25	8.09E+04	816.62	6.37E+04	4.82E+02
	2	31.92	29 -	34	1.27E+03	239.20	1.05E+04	1.88E+02
M	3	53.81	42 -	62	1.87E+04	1000.50	5.64E+04	3.90E+02
m	4	59.38	42 -	62	5.63E+04	603.34	1.91E+04	2.27E+02
	5	67.74	64 -	70	7.36E+02	346.88	2.15E+04	2.82E+02
	6	87.78	80 -	93	2.87E+04	655.50	3.43E+04	4.61E+02
	7	121.83	114 -	126	6.58E+03	439.97	1.96E+04	3.36E+02
	8	136.38	133 -	140	4.41E+02	264.99	1.14E+04	2.15E+02
	9	165.71	160 -	168	9.88E+02	277.13	1.12E+04	2.22E+02
	10	188.64	185 -	192	2.03E+02	243.61	9.77E+03	1.99E+02
	11	216.81	213 -	220	2.64E+02	238.30	9.30E+03	1.94E+02
	12	392.29	388 -	395	3.01E+02	176.47	4.98E+03	1.42E+02
	13	512.66	509 -	516	1.32E+02	147.38	3.52E+03	1.20E+02
	14	609.93	607 -	613	1.18E+02	115.32	2.35E+03	9.31E+01
	15	661.67	653 -	668	1.21E+04	316.80	5.21E+03	1.88E+02
	16	698.77	692 -	703	2.16E+02	162.14	3.17E+03	1.31E+02
	17	724.56	721 -	728	1.06E+02	118.59	2.28E+03	9.60E+01
	18	898.18	894 -	902	2.44E+02	152.14	3.41E+03	1.22E+02
	19	1149.17	1146 -	1153	7.84E+01	87.95	1.25E+03	7.08E+01
M	20	1164.81	1161 -	1179	9.09E+01	74.56	9.77E+02	5.14E+01
m	21	1173.29	1161 -	1179	1.00E+04	215.81	1.06E+03	5.36E+01
	22	1237.59	1231 -	1245	1.29E+02	76.49	5.59E+02	6.00E+01
	23	1332.56	1326 -	1339	9.13E+03	199.94	3.75E+02	4.83E+01
	24	1371.82	1369 -	1375	1.57E+01	18.55	4.26E+01	1.38E+01
	25	1418.65	1413 -	1424	2.64E+01	25.77	6.32E+01	1.94E+01
	26	1463.68	1459 -	1469	2.67E+01	25.99	7.27E+01	1.96E+01
	27	1601.30	1596 -	1608	2.13E+01	26.40	7.35E+01	2.03E+01
	28	1720.82	1718 -	1724	1.16E+01	11.88	1.67E+01	8.00E+00
	29	1731.68	1729 -	1735	9.00E+00	10.63	1.40E+01	7.21E+00
	30	1835.87	1828 -	1843	1.39E+02	30.92	4.00E+01	1.64E+01
	31	1946.28	1942 -	1950	1.13E+01	11.35	1.15E+01	7.52E+00

Analysis Report for 1508002-01

GAS-1302

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	2112.44	2108 -	2119	1.06E+01	11.83	1.28E+01	8.12E+00
33	2246.56	2241 -	2252	1.13E+01	9.59	5.50E+00	5.64E+00
34	2319.17	2315 -	2322	7.00E+00	5.29	0.00E+00	0.00E+00
35	2505.88	2501 -	2510	4.60E+01	13.56	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	22.33	19 -	25	21.58	8.09E+04	816.62	6.37E+04	.....
	2	31.92	29 -	34	31.17	1.27E+03	239.20	1.05E+04	.....
M	3	53.81	42 -	62	53.07	1.87E+04	1000.50	5.64E+04	.....
m	4	59.38	42 -	62	58.65	5.63E+04	603.34	1.91E+04	AM-241
	5	67.74	64 -	70	67.01	7.36E+02	346.88	2.15E+04	TA-182 TH-230 TI-44
	6	87.78	80 -	93	87.05	2.87E+04	655.50	3.43E+04	SN-126 CD-109 LU-176
	7	121.83	114 -	126	121.11	6.58E+03	439.97	1.96E+04	EU-152 CO-57 SE-75
	8	136.38	133 -	140	135.68	4.41E+02	264.99	1.14E+04	CO-57 SE-75
	9	165.71	160 -	168	165.02	9.88E+02	277.13	1.12E+04	CE-139
	10	188.64	185 -	192	187.95	2.03E+02	243.61	9.77E+03	.....
	11	216.81	213 -	220	216.14	2.64E+02	238.30	9.30E+03	.....
	12	392.29	388 -	395	391.70	3.01E+02	176.47	4.98E+03	SN-113
	13	512.66	509 -	516	512.12	1.32E+02	147.38	3.52E+03	.....
	14	609.93	607 -	613	609.44	1.18E+02	115.32	2.35E+03	BI-214
	15	661.67	653 -	668	661.21	1.21E+04	316.80	5.21E+03	CS-137

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	16	698.77	692 -	703	698.32	2.16E+02	162.14	3.17E+03	.....
	17	724.56	721 -	728	724.13	1.06E+02	118.59	2.28E+03	ZR-95
	18	898.18	894 -	902	897.83	2.44E+02	152.14	3.41E+03	Y-88
	19	1149.17	1146 -	1153	1148.96	7.84E+01	87.95	1.25E+03	.....
M	20	1164.81	1161 -	1179	1164.61	9.09E+01	74.56	9.77E+02	.....
m	21	1173.29	1161 -	1179	1173.09	1.00E+04	215.81	1.06E+03	CO-60
	22	1237.59	1231 -	1245	1237.43	1.29E+02	76.49	5.59E+02	CO-56
	23	1332.56	1326 -	1339	1332.45	9.13E+03	199.94	3.75E+02	CO-60
	24	1371.82	1369 -	1375	1371.73	1.57E+01	18.55	4.26E+01	.....
	25	1418.65	1413 -	1424	1418.60	2.64E+01	25.77	6.32E+01	.....
	26	1463.68	1459 -	1469	1463.66	2.67E+01	25.99	7.27E+01	.....
	27	1601.30	1596 -	1608	1601.36	2.13E+01	26.40	7.35E+01	.....
	28	1720.82	1718 -	1724	1720.95	1.16E+01	11.88	1.67E+01	.....
	29	1731.68	1729 -	1735	1731.82	9.00E+00	10.63	1.40E+01	.....
	30	1835.87	1828 -	1843	1836.08	1.39E+02	30.92	4.00E+01	Y-88
	31	1946.28	1942 -	1950	1946.56	1.13E+01	11.35	1.15E+01	.....
	32	2112.44	2108 -	2119	2112.84	1.06E+01	11.83	1.28E+01	.....
	33	2246.56	2241 -	2252	2247.05	1.13E+01	9.59	5.50E+00	.....
	34	2319.17	2315 -	2322	2319.71	7.00E+00	5.29	0.00E+00	.....
	35	2505.88	2501 -	2510	2506.57	4.60E+01	13.56	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	22.33	8.09E+04	816.62	3.04E-02	1.78E-03
	2	31.92	1.27E+03	239.20	2.91E-02	1.78E-03
M	3	53.81	1.87E+04	1000.50	2.49E-02	1.78E-03
m	4	59.38	5.63E+04	603.34	2.39E-02	1.78E-03
	5	67.74	7.36E+02	346.88	2.25E-02	1.74E-03
	6	87.78	2.87E+04	655.50	1.96E-02	1.63E-03
	7	121.83	6.58E+03	439.97	1.60E-02	1.53E-03
	8	136.38	4.41E+02	264.99	1.47E-02	1.42E-03
	9	165.71	9.88E+02	277.13	1.27E-02	1.21E-03
	10	188.64	2.03E+02	243.61	1.15E-02	1.14E-03

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	11	216.81	2.64E+02	238.30	1.02E-02	1.05E-03
	12	392.29	3.01E+02	176.47	5.96E-03	7.35E-04
	13	512.66	1.32E+02	147.38	4.59E-03	5.59E-04
	14	609.93	1.18E+02	115.32	3.87E-03	4.16E-04
	15	661.67	1.21E+04	316.80	3.57E-03	3.40E-04
	16	698.77	2.16E+02	162.14	3.38E-03	3.19E-04
	17	724.56	1.06E+02	118.59	3.27E-03	3.05E-04
	18	898.18	2.44E+02	152.14	2.65E-03	2.08E-04
	19	1149.17	7.84E+01	87.95	2.09E-03	1.76E-04
M	20	1164.81	9.09E+01	74.56	2.07E-03	1.74E-04
m	21	1173.29	1.00E+04	215.81	2.05E-03	1.73E-04
	22	1237.59	1.29E+02	76.49	1.95E-03	1.90E-04
	23	1332.56	9.13E+03	199.94	1.83E-03	2.16E-04
	24	1371.82	1.57E+01	18.55	1.78E-03	2.08E-04
	25	1418.65	2.64E+01	25.77	1.73E-03	1.98E-04
	26	1463.68	2.67E+01	25.99	1.68E-03	1.88E-04
	27	1601.30	2.13E+01	26.40	1.56E-03	1.60E-04
	28	1720.82	1.16E+01	11.88	1.46E-03	1.35E-04
	29	1731.68	9.00E+00	10.63	1.46E-03	1.33E-04
	30	1835.87	1.39E+02	30.92	1.39E-03	1.11E-04
	31	1946.28	1.13E+01	11.35	1.33E-03	1.11E-04
	32	2112.44	1.06E+01	11.83	1.25E-03	1.11E-04
	33	2246.56	1.13E+01	9.59	1.19E-03	1.11E-04
	34	2319.17	7.00E+00	5.29	1.16E-03	1.11E-04
	35	2505.88	4.60E+01	13.56	1.10E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	22.33	8.09E+04	816.62			8.09E+04	8.17E+02
	2	31.92	1.27E+03	239.20			1.27E+03	2.39E+02
M	3	53.81	1.87E+04	1000.50			1.87E+04	1.00E+03
m	4	59.38	5.63E+04	603.34			5.63E+04	6.03E+02
	5	67.74	7.36E+02	346.88			7.36E+02	3.47E+02

00244

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	6	87.78	2.87E+04	655.50			2.87E+04	6.55E+02
	7	121.83	6.58E+03	439.97			6.58E+03	4.40E+02
	8	136.38	4.41E+02	264.99			4.41E+02	2.65E+02
	9	165.71	9.88E+02	277.13			9.88E+02	2.77E+02
	10	188.64	2.03E+02	243.61			2.03E+02	2.44E+02
	11	216.81	2.64E+02	238.30			2.64E+02	2.38E+02
	12	392.29	3.01E+02	176.47			3.01E+02	1.76E+02
	13	512.66	1.32E+02	147.38			1.32E+02	1.47E+02
	14	609.93	1.18E+02	115.32	8.49E-01	1.73E+00	1.18E+02	1.15E+02
	15	661.67	1.21E+04	316.80			1.21E+04	3.17E+02
	16	698.77	2.16E+02	162.14			2.16E+02	1.62E+02
	17	724.56	1.06E+02	118.59			1.06E+02	1.19E+02
	18	898.18	2.44E+02	152.14			2.44E+02	1.52E+02
	19	1149.17	7.84E+01	87.95			7.84E+01	8.80E+01
M	20	1164.81	9.09E+01	74.56			9.09E+01	7.46E+01
m	21	1173.29	1.00E+04	215.81			1.00E+04	2.16E+02
	22	1237.59	1.29E+02	76.49			1.29E+02	7.65E+01
	23	1332.56	9.13E+03	199.94			9.13E+03	2.00E+02
	24	1371.82	1.57E+01	18.55			1.57E+01	1.85E+01
	25	1418.65	2.64E+01	25.77			2.64E+01	2.58E+01
	26	1463.68	2.67E+01	25.99			2.67E+01	2.60E+01
	27	1601.30	2.13E+01	26.40			2.13E+01	2.64E+01
	28	1720.82	1.16E+01	11.88			1.16E+01	1.19E+01
	29	1731.68	9.00E+00	10.63			9.00E+00	1.06E+01
	30	1835.87	1.39E+02	30.92			1.39E+02	3.09E+01
	31	1946.28	1.13E+01	11.35			1.13E+01	1.13E+01
	32	2112.44	1.06E+01	11.83			1.06E+01	1.18E+01
	33	2246.56	1.13E+01	9.59			1.13E+01	9.59E+00
	34	2319.17	7.00E+00	5.29			7.00E+00	5.29E+00
	35	2505.88	4.60E+01	13.56			4.60E+01	1.36E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	22.33	8.09E+04	816.62			8.09E+04	8.17E+02
	2	31.92	1.27E+03	239.20			1.27E+03	2.39E+02
M	3	53.81	1.87E+04	1000.50			1.87E+04	1.00E+03
m	4	59.38	5.63E+04	603.34			5.63E+04	6.03E+02
	5	67.74	7.36E+02	346.88			7.36E+02	3.47E+02
	6	87.78	2.87E+04	655.50			2.87E+04	6.55E+02
	7	121.83	6.58E+03	439.97			6.58E+03	4.40E+02
	8	136.38	4.41E+02	264.99			4.41E+02	2.65E+02
	9	165.71	9.88E+02	277.13			9.88E+02	2.77E+02
	10	188.64	2.03E+02	243.61			2.03E+02	2.44E+02
	11	216.81	2.64E+02	238.30			2.64E+02	2.38E+02
	12	392.29	3.01E+02	176.47			3.01E+02	1.76E+02
	13	512.66	1.32E+02	147.38			1.32E+02	1.47E+02
	14	609.93	1.18E+02	115.32	8.49E-01	1.73E+00	1.18E+02	1.15E+02
	15	661.67	1.21E+04	316.80			1.21E+04	3.17E+02
	16	698.77	2.16E+02	162.14			2.16E+02	1.62E+02
	17	724.56	1.06E+02	118.59			1.06E+02	1.19E+02
	18	898.18	2.44E+02	152.14			2.44E+02	1.52E+02
	19	1149.17	7.84E+01	87.95			7.84E+01	8.80E+01
M	20	1164.81	9.09E+01	74.56			9.09E+01	7.46E+01
m	21	1173.29	1.00E+04	215.81			1.00E+04	2.16E+02
	22	1237.59	1.29E+02	76.49			1.29E+02	7.65E+01
	23	1332.56	9.13E+03	199.94			9.13E+03	2.00E+02
	24	1371.82	1.57E+01	18.55			1.57E+01	1.85E+01
	25	1418.65	2.64E+01	25.77			2.64E+01	2.58E+01
	26	1463.68	2.67E+01	25.99			2.67E+01	2.60E+01
	27	1601.30	2.13E+01	26.40			2.13E+01	2.64E+01
	28	1720.82	1.16E+01	11.88			1.16E+01	1.19E+01
	29	1731.68	9.00E+00	10.63			9.00E+00	1.06E+01
	30	1835.87	1.39E+02	30.92			1.39E+02	3.09E+01
	31	1946.28	1.13E+01	11.35			1.13E+01	1.13E+01
	32	2112.44	1.06E+01	11.83			1.06E+01	1.18E+01
	33	2246.56	1.13E+01	9.59			1.13E+01	9.59E+00
	34	2319.17	7.00E+00	5.29			7.00E+00	5.29E+00
	35	2505.88	4.60E+01	13.56			4.60E+01	1.36E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1508002-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.951	122.06	*	85.51	7.33E+01	8.58E+00
		136.48	*	10.60	4.29E+01	2.62E+01
CO-60	0.998	1173.22	*	100.00	1.32E+02	1.15E+01
		1332.49	*	100.00	1.35E+02	1.62E+01
Y-88	0.760	898.02	*	93.40	3.32E+02	2.09E+02
		1836.01	*	99.38	3.39E+02	8.01E+01
CD-109	0.976	88.03	*	3.72	2.59E+03	2.71E+02
SN-113	0.704	255.12		1.93		
		391.69	*	64.90	1.80E+02	1.08E+02
SN-126	0.993	87.57	*	37.00	8.05E+01	6.94E+00
CS-137	1.000	661.65	*	85.12	8.51E+01	8.42E+00
CE-139	0.847	165.85	*	80.35	1.03E+02	3.04E+01
BI-214	0.425	609.31	*	46.30	1.34E+00	1.32E+00
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
AM-241	0.996	59.54	*	35.90	1.34E+02	1.01E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:02:04PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	22.33	4.49433E+01	0.50		
	2	31.92	7.02910E-01	9.45		
M	3	53.81	1.03758E+01	2.68		
	5	67.74	4.08638E-01	23.58	Tol.	TA-182 TH-230
	10	188.64	1.12565E-01	60.12		
	11	216.81	1.46593E-01	45.16		
	13	512.66	7.33915E-02	55.78		
	16	698.77	1.20229E-01	37.46		
	17	724.56	5.91305E-02	55.71	Tol.	ZR-95
	19	1149.17	4.35533E-02	56.10		

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	20	1164.81	5.05201E-02	40.99		
	22	1237.59	7.14992E-02	29.72		
	24	1371.82	8.71622E-03	59.11		
	25	1418.65	1.46743E-02	48.78		
	26	1463.68	1.48192E-02	48.72		
	27	1601.30	1.18151E-02	62.06		
	28	1720.82	6.47222E-03	51.01		
	29	1731.68	5.00000E-03	59.06		
	31	1946.28	6.25817E-03	50.36		
	32	2112.44	5.88235E-03	55.87		
	33	2246.56	6.25000E-03	42.63		
	34	2319.17	3.88889E-03	37.80		
	35	2505.88	2.55556E-02	14.74	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.95	122.06	*	85.51	7.33E+01	8.58E+00
		136.48	*	10.60	4.29E+01	2.62E+01
CO-60	0.99	1173.22	*	100.00	1.32E+02	1.15E+01
		1332.49	*	100.00	1.35E+02	1.62E+01
Y-88	0.76	898.02	*	93.40	3.32E+02	2.09E+02
		1836.01	*	99.38	3.39E+02	8.01E+01
CD-109	0.97	88.03	*	3.72	2.59E+03	2.71E+02
SN-113	0.70	255.12		1.93		
		391.69	*	64.90	1.80E+02	1.08E+02
SN-126	0.99	87.57	*	37.00	8.05E+01	6.94E+00
CS-137	1.00	661.65	*	85.12	8.51E+01	8.42E+00
CE-139	0.84	165.85	*	80.35	1.03E+02	3.04E+01
BI-214	0.42	609.31	*	46.30	1.34E+00	1.32E+00
		1120.29		15.10		
		1764.49		15.80		

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Analysis Report for 1508002-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.42	2204.22		4.98		
AM-241	0.99	59.54	*	35.90	1.34E+02	1.01E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.951	7.03E+01	8.15E+00	
	CO-60	0.998	1.33E+02	9.38E+00	
	Y-88	0.760	3.38E+02	7.48E+01	
?	CD-109	0.976	2.59E+03	2.71E+02	
	SN-113	0.704	1.80E+02	1.08E+02	
?	SN-126	0.993	8.05E+01	6.94E+00	
	CS-137	1.000	8.51E+01	8.42E+00	
	CE-139	0.847	1.03E+02	3.04E+01	
	BI-214	0.425	1.34E+00	1.32E+00	
	AM-241	0.996	1.34E+02	1.01E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-01
GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:02:04PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	22.33	4.49433E+01	0.50		
	2	31.92	7.02910E-01	9.45		
M	3	53.81	1.03758E+01	2.68		
	5	67.74	4.08638E-01	23.58	Tol.	TA-182 TH-230
	10	188.64	1.12565E-01	60.12		
	11	216.81	1.46593E-01	45.16		
	13	512.66	7.33915E-02	55.78		
	16	698.77	1.20229E-01	37.46		
	17	724.56	5.91305E-02	55.71	Tol.	ZR-95
	19	1149.17	4.35533E-02	56.10		
M	20	1164.81	5.05201E-02	40.99		
	22	1237.59	7.14992E-02	29.72		
	24	1371.82	8.71622E-03	59.11		
	25	1418.65	1.46743E-02	48.78		
	26	1463.68	1.48192E-02	48.72		
	27	1601.30	1.18151E-02	62.06		
	28	1720.82	6.47222E-03	51.01		
	29	1731.68	5.00000E-03	59.06		
	31	1946.28	6.25817E-03	50.36		
	32	2112.44	5.88235E-03	55.87		
	33	2246.56	6.25000E-03	42.63		
	34	2319.17	3.88889E-03	37.80		
	35	2505.88	2.55556E-02	14.74	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-01

GAS-1302

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	-8.89E+03	2.55E+05	2.55E+05
+		NA-22	1274.54		99.94	6.34E-01	1.31E+00	1.31E+00
+	@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09		99.86	0.00E+00		1.00E+26
+		AL-26	1808.65		99.76	-1.70E-01	3.34E-01	3.34E-01
+		K-40	1460.81		10.67	-6.48E-01	4.22E+00	4.22E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	-1.34E+01	5.52E-01	5.52E-01
			78.34		96.00	2.29E-02		6.02E-01
+		SC-46	889.25		99.98	3.91E+01	9.61E+02	9.84E+02
			1120.51		99.99	-4.42E+01		9.61E+02
+		V-48	983.52		99.98	-5.79E+12	4.20E+14	9.63E+14
			1312.10		97.50	-2.50E+14		4.20E+14
+		CR-51	320.08		9.83	1.13E+08	2.65E+09	2.65E+09
+		MN-54	834.83		99.97	-3.15E+00	7.35E+00	7.35E+00
+		CO-56	846.75		99.96	2.03E+02	1.04E+03	1.34E+03
			1037.75		14.03	8.47E+02		1.11E+04
			1238.25		67.00	3.77E+02		1.20E+03
			1771.40		15.51	-1.84E+03		2.35E+03
			2598.48		16.90	9.37E+01		1.04E+03
+		CO-57	122.06	*	85.51	7.33E+01	7.53E+00	7.53E+00
			136.48	*	10.60	4.29E+01		4.21E+01
+		CO-58	810.76		99.40	1.08E+03	2.79E+03	2.79E+03
+		FE-59	1099.22		56.50	-1.36E+05	3.16E+05	5.63E+05
			1291.56		43.20	-1.09E+05		3.16E+05
+		CO-60	1173.22	*	100.00	1.32E+02	1.47E+00	3.54E+00
			1332.49	*	100.00	1.35E+02		1.47E+00
+		ZN-65	1115.52		50.75	2.03E+01	2.89E+01	2.89E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	4.66E+03	8.55E+01	3.87E+02
			136.00		59.20	-1.01E+01		8.55E+01
			264.65		59.80	-3.08E+01		1.12E+02
			279.53		25.20	-7.60E+01		2.68E+02
			400.65		11.40	-3.96E+02		7.24E+02
+		RB-82	776.52		13.00	1.12E+09	1.62E+10	1.62E+10
+		RB-83	520.41		46.00	6.71E+01	1.13E+03	1.13E+03
			529.64		30.30	8.72E+02		1.75E+03
			552.65		16.40	1.66E+03		3.24E+03
+		KR-85	513.99		0.43	3.26E+01	2.54E+02	2.54E+02
+		SR-85	513.99		99.27	5.49E+02	4.27E+03	4.27E+03

00251

Analysis Report for 1508002-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		Y-88	898.02	*	93.40	3.32E+02	8.68E+01	3.37E+02
			1836.01	*	99.38	3.39E+02		8.68E+01
+		NB-93M	16.57		9.43	-2.65E+02	6.34E+00	6.34E+00
+		NB-94	702.63		100.00	-2.68E-01	1.03E+00	1.03E+00
			871.10		100.00	-2.52E-01		1.43E+00
+		NB-95	765.79		99.81	-6.45E+05	6.42E+06	6.42E+06
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	-1.75E+03	1.01E+04	1.23E+04
			756.72		55.30	-1.89E+02		1.01E+04
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	3.86E+04	1.10E+06	1.10E+06
+		RU-106	621.84		9.80	-2.19E+01	4.46E+01	4.46E+01
+		AG-108M	433.93		89.90	-4.92E-01	1.08E+00	1.08E+00
			614.37		90.40	-2.00E-02		1.13E+00
			722.95		90.50	-1.12E-01		1.23E+00
+		CD-109	88.03	*	3.72	2.59E+03	8.35E+01	8.35E+01
+		AG-110M	657.75		93.14	1.97E+02	1.49E+01	2.35E+01
			677.61		10.53	7.43E+00		8.46E+01
			706.67		16.46	-3.77E+01		5.43E+01
			763.93		21.98	-1.24E+01		4.62E+01
			884.67		71.63	1.57E+00		1.82E+01
			1384.27		23.94	0.00E+00		1.49E+01
+		CD-113M	263.70		0.02	-7.33E+02	3.42E+03	3.42E+03
+		SN-113	255.12		1.93	1.94E+03	1.71E+02	4.17E+03
			391.69	*	64.90	1.80E+02		1.71E+02
+		TE123M	159.00		84.10	-7.51E-01	6.12E+01	6.12E+01
+		SB-124	602.71		97.87	-5.32E+02	5.44E+03	8.52E+03
			645.85		7.26	-4.07E+04		1.20E+05
			722.78		11.10	9.62E+02		8.37E+04
			1691.02		49.00	-1.95E+03		5.44E+03
+		I-125	35.49		6.49	-1.02E+05	4.35E+04	4.35E+04
+		SB-125	176.33		6.89	-3.27E+00	5.55E+00	1.42E+01
			427.89		29.33	1.83E+00		5.55E+00
			463.38		10.35	2.99E+00		1.74E+01
			600.56		17.80	3.95E+00		9.46E+00
			635.90		11.32	1.36E+00		1.54E+01
+		SB-126	414.70		83.30	-1.97E+18	1.21E+19	1.27E+19
			666.33		99.60	7.92E+17		2.47E+19
			695.00		99.60	1.71E+18		1.21E+19
			720.50		53.80	-5.41E+17		2.34E+19
+		SN-126	87.57	*	37.00	8.05E+01	2.60E+00	2.60E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-5.23E+00	7.51E-01	7.51E-01
			33.60		13.20	-1.62E+00		2.45E+00

00252

Analysis Report for 1508002-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		I-129	39.58		7.52	-1.71E+01	7.51E-01	4.79E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26
+	@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@		228.16		88.00	1.00E+26		1.00E+26
+		BA-133	81.00		33.00	2.81E-01	1.58E+00	2.04E+00
			302.84		17.80	-2.99E-01		4.79E+00
			356.01		60.00	4.28E-01		1.58E+00
+	@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+	@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26
+		CS-134	563.23		8.38	2.30E+00	2.09E+00	2.32E+01
			569.32		15.43	1.70E+00		1.26E+01
			604.70		97.60	3.38E-01		2.09E+00
			795.84		85.40	-2.30E-01		2.91E+00
			801.93		8.73	5.96E-01		2.90E+01
+		CS-135	268.24		16.00	-1.29E+00	4.45E+00	4.45E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	-7.29E+17	1.17E+18	6.56E+18
			163.89		4.61	3.90E+19		1.21E+19
			176.55		13.56	-8.89E+17		3.86E+18
			273.65		12.66	1.48E+18		5.21E+18
			340.57		48.50	-3.71E+17		1.48E+18
			818.50		99.70	-3.40E+17		1.17E+18
			1048.07		79.60	-2.30E+17		1.75E+18
			1235.34		19.70	2.76E+18		3.79E+18
+		CS-137	661.65	*	85.12	8.51E+01	2.67E+00	2.67E+00
+		LA-138	788.74		34.00	1.14E+00	6.26E-01	3.53E+00
			1435.80		66.00	1.03E-01		6.26E-01
+		CE-139	165.85	*	80.35	1.03E+02	4.64E+01	4.64E+01
+		BA-140	162.64		6.70	1.73E+18	1.16E+19	2.72E+19
			304.84		4.50	-1.50E+19		5.00E+19
			423.70		3.20	-3.81E+19		8.88E+19
			437.55		2.00	-1.85E+19		1.47E+20
			537.32		25.00	-3.55E+18		1.16E+19
+		LA-140	328.77		20.50	-6.50E+18	1.32E+18	1.12E+19
			487.03		45.50	-4.21E+17		6.50E+18
			815.85		23.50	-4.80E+18		1.63E+19
			1596.49		95.49	-1.06E+17		1.32E+18
+		CE-141	145.44		48.40	1.26E+06	2.04E+07	2.04E+07
+	@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
	@		293.26		42.00	1.00E+26		1.00E+26
	@		664.55		5.20	1.00E+26		1.00E+26
+		CE-144	133.54		10.80	-1.19E+01	3.35E+01	3.35E+01
+		PM-144	476.78		42.00	2.70E+00	4.53E+00	1.08E+01

Analysis Report for 1508002-01

GAS-1302

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		PM-144	618.01	98.60	1.71E-01	4.53E+00	4.53E+00
			696.49	99.49	7.17E-01		4.70E+00
+		PM-145	36.85	21.70	-5.71E+00	9.19E-01	1.66E+00
			37.36	39.70	-3.48E+00		9.19E-01
			42.30	15.10	-3.66E+00		2.98E+00
			72.40	2.31	-1.61E+01		2.52E+01
+		PM-146	453.90	39.94	-5.44E-01	3.35E+00	3.35E+00
			735.90	14.01	3.04E+00		1.05E+01
			747.13	13.10	1.30E+00		1.12E+01
+	@	ND-147	91.11	28.90	1.00E+26	1.00E+26	1.00E+26
	@		531.02	13.10	1.00E+26		1.00E+26
+	@	PM-149	285.90	3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78	20.50	4.36E+01	2.78E+00	3.73E+00
			244.69	5.40	-2.32E+00		1.45E+01
			344.27	19.13	-1.95E+00		4.62E+00
			778.89	9.20	5.24E-01		1.43E+01
			964.01	10.40	1.53E+01		1.81E+01
			1085.78	7.22	-1.32E+01		2.46E+01
			1112.02	9.60	7.55E+00		1.88E+01
			1407.95	14.94	-1.72E-02		2.78E+00
+		GD-153	97.43	31.30	8.01E-01	1.37E+01	1.37E+01
			103.18	22.20	-3.54E+00		2.00E+01
+		EU-154	123.07	40.50	2.32E+01	2.01E+00	2.01E+00
			723.30	19.70	-6.03E-01		6.61E+00
			873.19	11.50	-4.77E+00		1.46E+01
			996.32	10.30	-5.10E-01		1.78E+01
			1004.76	17.90	1.76E+00		1.03E+01
			1274.45	35.50	1.19E+00		2.47E+00
+		EU-155	86.50	30.90	1.27E+02	3.09E+00	4.19E+00
			105.30	20.70	-5.09E-02		3.09E+00
+		EU-156	811.77	10.40	2.20E+16	3.19E+16	4.45E+16
			1153.47	7.20	2.05E+15		6.56E+16
			1230.71	8.90	-1.84E+15		3.19E+16
+		HO-166M	184.41	72.60	-2.59E-01	8.37E-01	8.37E-01
			280.45	29.60	-5.24E-01		2.43E+00
			410.94	11.10	1.33E+00		8.26E+00
			711.69	54.10	1.53E-01		1.93E+00
+		TM-171	66.72	0.14	-6.16E+04	7.74E+02	7.74E+02
+		HF-172	81.75	4.52	1.63E+00	1.28E+01	2.96E+01
			125.81	11.30	-1.50E+00		1.28E+01
+	@	LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06	16.63	1.00E+26		1.00E+26
	@		912.12	15.25	1.00E+26		1.00E+26
	@		1093.66	62.50	1.00E+26		1.00E+26
+		LU-173	100.72	5.24	-2.05E+00	1.01E+01	2.60E+01
			272.11	21.20	2.73E+00		1.01E+01
+		HF-175	343.40	84.00	-1.04E+02	2.25E+03	2.25E+03
+		LU-176	88.34	13.30	2.14E+02	7.49E-01	7.12E+00
			201.83	86.00	-3.39E-01		7.49E-01

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-176	306.78		94.00	-3.97E-01	7.49E-01	7.88E-01
+	TA-182	67.75		41.20	-3.48E+03	1.43E+02	1.43E+02
		1121.30		34.90	-2.57E+01		4.78E+02
		1189.05		16.23	-2.16E+02		7.46E+02
		1221.41		26.98	-5.67E+01		3.58E+02
		1231.02		11.44	-4.58E+01		7.93E+02
+	IR-192	308.46		29.68	3.30E+02	3.39E+03	3.94E+03
		468.07		48.10	-1.69E+02		3.39E+03
+	HG-203	279.19		77.30	-3.11E+04	1.10E+05	1.10E+05
+	BI-207	569.67		97.72	1.36E-01	1.01E+00	1.01E+00
		1063.62		74.90	3.77E-01		2.16E+00
+	TL-208	583.14		30.22	5.83E-01	7.97E-01	3.25E+00
		860.37		4.48	1.53E+01		3.15E+01
		2614.66		35.85	2.91E-01		7.97E-01
+	BI-210M	262.00		45.00	5.30E-01	1.58E+00	1.58E+00
		300.00		23.00	9.94E-01		3.21E+00
+	PB-210	46.50		4.25	1.33E+01	1.36E+01	1.36E+01
+	PB-211	404.84		2.90	-6.03E+00	3.09E+01	3.09E+01
		831.96		2.90	-1.43E+01		4.41E+01
+	BI-212	727.17		11.80	1.83E+00	9.49E+00	9.49E+00
		1620.62		2.75	3.51E+00		1.49E+01
+	PB-212	238.63		44.60	1.42E+00	1.60E+00	1.60E+00
		300.09		3.41	6.70E+00		2.16E+01
+	BI-214	609.31	*	46.30	1.34E+00	2.15E+00	2.15E+00
		1120.29		15.10	-4.43E-01		9.65E+00
		1764.49		15.80	-5.81E-01		2.38E+00
		2204.22		4.98	1.53E+00		7.44E+00
+	PB-214	295.21		19.19	-7.95E-01	2.21E+00	3.81E+00
		351.92		37.19	8.99E-01		2.21E+00
+	RN-219	401.80		6.50	-2.55E+00	1.37E+01	1.37E+01
+	RA-223	323.87		3.88	7.63E+00	1.97E+01	1.97E+01
+	RA-224	240.98		3.95	1.17E+01	1.81E+01	1.81E+01
+	RA-225	40.00		31.00	-3.90E+16	1.09E+16	1.09E+16
+	RA-226	186.21		3.28	-2.75E+00	1.89E+01	1.89E+01
+	TH-227	50.10		8.40	1.82E+01	6.19E+00	7.48E+00
		236.00		11.50	-1.66E-01		6.19E+00
		256.20		6.30	-6.74E-01		1.12E+01
+	AC-228	338.32		11.40	-1.29E+00	5.64E+00	6.84E+00
		911.07		27.70	2.58E-02		5.64E+00
		969.11		16.60	-1.97E+00		9.59E+00
+	TH-230	48.44		16.90	9.46E+00	3.54E+00	3.54E+00
		62.85		4.60	7.89E+02		2.23E+01
		67.67		0.37	-3.33E+03		1.37E+02
+	PA-231	283.67		1.60	-3.84E+00	3.22E+01	4.52E+01
		302.67		2.30	-2.01E+00		3.22E+01
+	TH-231	25.64		14.70	-1.99E+01	6.60E+00	6.60E+00
		84.21		6.40	1.16E+02		1.31E+01
+	PA-233	311.98		38.60	4.47E+08	1.12E+09	1.12E+09

Analysis Report for 1508002-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PA-234	131.20		20.40	-1.66E+00	2.48E+00	2.48E+00
		733.99		8.80	4.71E+00		1.28E+01
		946.00		12.00	-2.96E+00		1.43E+01
+	PA-234M	1001.03		0.92	1.24E+02	1.72E+02	1.72E+02
+	TH-234	63.29		3.80	3.50E+02	2.28E+01	2.28E+01
+	U-235	143.76		10.50	1.51E+00	5.01E+00	5.01E+00
		163.35		4.70	4.17E+01		1.29E+01
		205.31		4.70	-3.92E-01		1.39E+01
+	NP-237	86.50		12.60	2.31E+02	7.61E+00	7.61E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	1.34E+02	3.17E+00	3.17E+00
+	AM-243	74.67		66.00	-3.33E-01	8.25E-01	8.25E-01
+	CM-243	209.75		3.29	-3.99E+00	5.41E+00	2.13E+01
		228.14		10.60	2.49E+00		7.06E+00
		277.60		14.00	-1.31E+00		5.41E+00

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59	10.42	2.55E+05	2.55E+05	-8.89E+03	1.26E+05
	NA-22	1274.54	99.94	1.31E+00	1.31E+00	6.34E-01	6.31E-01
@	NA-24	1368.53	99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09	99.86	1.00E+26		0.00E+00	1.00E+20
	AL-26	1808.65	99.76	3.34E-01	3.34E-01	-1.70E-01	1.48E-01

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	K-40	1460.81		10.67	4.22E+00	4.22E+00	-6.48E-01	1.96E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.52E-01	5.52E-01	-1.34E+01	2.74E-01
		78.34		96.00	6.02E-01		2.29E-02	2.99E-01
	SC-46	889.25		99.98	9.84E+02	9.61E+02	3.91E+01	4.85E+02
		1120.51		99.99	9.61E+02		-4.42E+01	4.72E+02
	V-48	983.52		99.98	9.63E+14	4.20E+14	-5.79E+12	4.75E+14
		1312.10		97.50	4.20E+14		-2.50E+14	2.00E+14
	CR-51	320.08		9.83	2.65E+09	2.65E+09	1.13E+08	1.31E+09
	MN-54	834.83		99.97	7.35E+00	7.35E+00	-3.15E+00	3.62E+00
	CO-56	846.75		99.96	1.34E+03	1.04E+03	2.03E+02	6.62E+02
		1037.75		14.03	1.11E+04		8.47E+02	5.47E+03
		1238.25		67.00	1.20E+03		3.77E+02	5.79E+02
		1771.40		15.51	2.35E+03		-1.84E+03	1.05E+03
		2598.48		16.90	1.04E+03		9.37E+01	3.70E+02
+	CO-57	122.06	*	85.51	7.53E+00	7.53E+00	7.33E+01	3.75E+00
		136.48	*	10.60	4.21E+01		4.29E+01	2.09E+01
	CO-58	810.76		99.40	2.79E+03	2.79E+03	1.08E+03	1.37E+03
	FE-59	1099.22		56.50	5.63E+05	3.16E+05	-1.36E+05	2.77E+05
		1291.56		43.20	3.16E+05		-1.09E+05	1.51E+05
+	CO-60	1173.22	*	100.00	3.54E+00	1.47E+00	1.32E+02	1.75E+00
		1332.49	*	100.00	1.47E+00		1.35E+02	7.15E-01
	ZN-65	1115.52		50.75	2.89E+01	2.89E+01	2.03E+01	1.42E+01
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	3.87E+02	8.55E+01	4.66E+03	1.93E+02
		136.00		59.20	8.55E+01		-1.01E+01	4.25E+01
		264.65		59.80	1.12E+02		-3.08E+01	5.53E+01
		279.53		25.20	2.68E+02		-7.60E+01	1.33E+02
		400.65		11.40	7.24E+02		-3.96E+02	3.58E+02
	RB-82	776.52		13.00	1.62E+10	1.62E+10	1.12E+09	7.96E+09
	RB-83	520.41		46.00	1.13E+03	1.13E+03	6.71E+01	5.55E+02
		529.64		30.30	1.75E+03		8.72E+02	8.62E+02
		552.65		16.40	3.24E+03		1.66E+03	1.60E+03
	KR-85	513.99		0.43	2.54E+02	2.54E+02	3.26E+01	1.25E+02
	SR-85	513.99		99.27	4.27E+03	4.27E+03	5.49E+02	2.11E+03
+	Y-88	898.02	*	93.40	3.37E+02	8.68E+01	3.32E+02	1.67E+02
		1836.01	*	99.38	8.68E+01		3.39E+02	4.01E+01
	NB-93M	16.57		9.43	6.34E+00	6.34E+00	-2.65E+02	3.16E+00
	NB-94	702.63		100.00	1.03E+00	1.03E+00	-2.68E-01	5.08E-01
		871.10		100.00	1.43E+00		-2.52E-01	7.03E-01
	NB-95	765.79		99.81	6.42E+06	6.42E+06	-6.45E+05	3.16E+06
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	1.23E+04	1.01E+04	-1.75E+03	6.07E+03
		756.72		55.30	1.01E+04		-1.89E+02	4.96E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	1.10E+06	1.10E+06	3.86E+04	5.41E+05
	RU-106	621.84		9.80	4.46E+01	4.46E+01	-2.19E+01	2.20E+01
	AG-108M	433.93		89.90	1.08E+00	1.08E+00	-4.92E-01	5.32E-01
		614.37		90.40	1.13E+00		-2.00E-02	5.55E-01

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-108M	722.95		90.50	1.23E+00	1.08E+00	-1.12E-01	6.05E-01
+	CD-109	88.03	*	3.72	8.35E+01	8.35E+01	2.59E+03	4.16E+01
	AG-110M	657.75		93.14	2.35E+01	1.49E+01	1.97E+02	1.17E+01
		677.61		10.53	8.46E+01		7.43E+00	4.16E+01
		706.67		16.46	5.43E+01		-3.77E+01	2.67E+01
		763.93		21.98	4.62E+01		-1.24E+01	2.27E+01
		884.67		71.63	1.82E+01		1.57E+00	8.97E+00
		1384.27		23.94	1.49E+01		0.00E+00	6.87E+00
	CD-113M	263.70		0.02	3.42E+03	3.42E+03	-7.33E+02	1.69E+03
+	SN-113	255.12		1.93	4.17E+03	1.71E+02	1.94E+03	2.07E+03
		391.69	*	64.90	1.71E+02		1.80E+02	8.49E+01
	TE123M	159.00		84.10	6.12E+01	6.12E+01	-7.51E-01	3.04E+01
	SB-124	602.71		97.87	8.52E+03	5.44E+03	-5.32E+02	4.20E+03
		645.85		7.26	1.20E+05		-4.07E+04	5.94E+04
		722.78		11.10	8.37E+04		9.62E+02	4.12E+04
		1691.02		49.00	5.44E+03		-1.95E+03	2.40E+03
	I-125	35.49		6.49	4.35E+04	4.35E+04	-1.02E+05	2.16E+04
	SB-125	176.33		6.89	1.42E+01	5.55E+00	-3.27E+00	7.05E+00
		427.89		29.33	5.55E+00		1.83E+00	2.75E+00
		463.38		10.35	1.74E+01		2.99E+00	8.61E+00
		600.56		17.80	9.46E+00		3.95E+00	4.66E+00
		635.90		11.32	1.54E+01		1.36E+00	7.60E+00
	SB-126	414.70		83.30	1.27E+19	1.21E+19	-1.97E+18	6.28E+18
		666.33		99.60	2.47E+19		7.92E+17	1.23E+19
		695.00		99.60	1.21E+19		1.71E+18	5.97E+18
		720.50		53.80	2.34E+19		-5.41E+17	1.15E+19
+	SN-126	87.57	*	37.00	2.60E+00	2.60E+00	8.05E+01	1.30E+00
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	7.51E-01	7.51E-01	-5.23E+00	3.74E-01
		33.60		13.20	2.45E+00		-1.62E+00	1.22E+00
		39.58		7.52	4.79E+00		-1.71E+01	2.38E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	2.04E+00	1.58E+00	2.81E-01	1.01E+00
		302.84		17.80	4.79E+00		-2.99E-01	2.37E+00
		356.01		60.00	1.58E+00		4.28E-01	7.82E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	2.32E+01	2.09E+00	2.30E+00	1.15E+01
		569.32		15.43	1.26E+01		1.70E+00	6.23E+00
		604.70		97.60	2.09E+00		3.38E-01	1.03E+00
		795.84		85.40	2.91E+00		-2.30E-01	1.43E+00
		801.93		8.73	2.90E+01		5.96E-01	1.43E+01
	CS-135	268.24		16.00	4.45E+00	4.45E+00	-1.29E+00	2.20E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20

00258

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	153.22		7.46	6.56E+18	1.17E+18	-7.29E+17	3.26E+18
		163.89		4.61	1.21E+19		3.90E+19	5.99E+18
		176.55		13.56	3.86E+18		-8.89E+17	1.92E+18
		273.65		12.66	5.21E+18		1.48E+18	2.58E+18
		340.57		48.50	1.48E+18		-3.71E+17	7.33E+17
		818.50		99.70	1.17E+18		-3.40E+17	5.77E+17
		1048.07		79.60	1.75E+18		-2.30E+17	8.60E+17
		1235.34		19.70	3.79E+18		2.76E+18	1.83E+18
+	CS-137	661.65	*	85.12	2.67E+00	2.67E+00	8.51E+01	1.32E+00
	LA-138	788.74		34.00	3.53E+00	6.26E-01	1.14E+00	1.74E+00
		1435.80		66.00	6.26E-01		1.03E-01	2.88E-01
+	CE-139	165.85	*	80.35	4.64E+01	4.64E+01	1.03E+02	2.31E+01
	BA-140	162.64		6.70	2.72E+19	1.16E+19	1.73E+18	1.35E+19
		304.84		4.50	5.00E+19		-1.50E+19	2.47E+19
		423.70		3.20	8.88E+19		-3.81E+19	4.39E+19
		437.55		2.00	1.47E+20		-1.85E+19	7.29E+19
		537.32		25.00	1.16E+19		-3.55E+18	5.72E+18
	LA-140	328.77		20.50	1.12E+19	1.32E+18	-6.50E+18	5.55E+18
		487.03		45.50	6.50E+18		-4.21E+17	3.21E+18
		815.85		23.50	1.63E+19		-4.80E+18	8.02E+18
		1596.49		95.49	1.32E+18		-1.06E+17	6.03E+17
	CE-141	145.44		48.40	2.04E+07	2.04E+07	1.26E+06	1.01E+07
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	3.35E+01	3.35E+01	-1.19E+01	1.66E+01
	PM-144	476.78		42.00	1.08E+01	4.53E+00	2.70E+00	5.35E+00
		618.01		98.60	4.53E+00		1.71E-01	2.23E+00
		696.49		99.49	4.70E+00		7.17E-01	2.31E+00
	PM-145	36.85		21.70	1.66E+00	9.19E-01	-5.71E+00	8.25E-01
		37.36		39.70	9.19E-01		-3.48E+00	4.57E-01
		42.30		15.10	2.98E+00		-3.66E+00	1.48E+00
		72.40		2.31	2.52E+01		-1.61E+01	1.25E+01
	PM-146	453.90		39.94	3.35E+00	3.35E+00	-5.44E-01	1.66E+00
		735.90		14.01	1.05E+01		3.04E+00	5.17E+00
		747.13		13.10	1.12E+01		1.30E+00	5.50E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	3.73E+00	2.78E+00	4.36E+01	1.86E+00
		244.69		5.40	1.45E+01		-2.32E+00	7.20E+00
		344.27		19.13	4.62E+00		-1.95E+00	2.29E+00
		778.89		9.20	1.43E+01		5.24E-01	7.02E+00
		964.01		10.40	1.81E+01		1.53E+01	8.91E+00
		1085.78		7.22	2.46E+01		-1.32E+01	1.21E+01
		1112.02		9.60	1.88E+01		7.55E+00	9.25E+00
		1407.95		14.94	2.78E+00		-1.72E-02	1.27E+00
	GD-153	97.43		31.30	1.37E+01	1.37E+01	8.01E-01	6.79E+00
		103.18		22.20	2.00E+01		-3.54E+00	9.92E+00
	EU-154	123.07		40.50	2.01E+00	2.01E+00	2.32E+01	1.00E+00
		723.30		19.70	6.61E+00		-6.03E-01	3.25E+00
		873.19		11.50	1.46E+01		-4.77E+00	7.20E+00
		996.32		10.30	1.78E+01		-5.10E-01	8.74E+00

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1004.76		17.90	1.03E+01	2.01E+00	1.76E+00	5.08E+00
		1274.45		35.50	2.47E+00		1.19E+00	1.19E+00
	EU-155	86.50		30.90	4.19E+00	3.09E+00	1.27E+02	2.09E+00
		105.30		20.70	3.09E+00		-5.09E-02	1.53E+00
	EU-156	811.77		10.40	4.45E+16	3.19E+16	2.20E+16	2.19E+16
		1153.47		7.20	6.56E+16		2.05E+15	3.21E+16
		1230.71		8.90	3.19E+16		-1.84E+15	1.54E+16
	HO-166M	184.41		72.60	8.37E-01	8.37E-01	-2.59E-01	4.15E-01
		280.45		29.60	2.43E+00		-5.24E-01	1.20E+00
		410.94		11.10	8.26E+00		1.33E+00	4.08E+00
		711.69		54.10	1.93E+00		1.53E-01	9.49E-01
	TM-171	66.72		0.14	7.74E+02	7.74E+02	-6.16E+04	3.85E+02
	HF-172	81.75		4.52	2.96E+01	1.28E+01	1.63E+00	1.47E+01
		125.81		11.30	1.28E+01		-1.50E+00	6.38E+00
@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		810.06		16.63	1.00E+26		1.00E+26	1.00E+20
@		912.12		15.25	1.00E+26		1.00E+26	1.00E+20
@		1093.66		62.50	1.00E+26		1.00E+26	1.00E+20
	LU-173	100.72		5.24	2.60E+01	1.01E+01	-2.05E+00	1.29E+01
		272.11		21.20	1.01E+01		2.73E+00	4.99E+00
	HF-175	343.40		84.00	2.25E+03	2.25E+03	-1.04E+02	1.11E+03
	LU-176	88.34		13.30	7.12E+00	7.49E-01	2.14E+02	3.55E+00
		201.83		86.00	7.49E-01		-3.39E-01	3.72E-01
		306.78		94.00	7.88E-01		-3.97E-01	3.90E-01
	TA-182	67.75		41.20	1.43E+02	1.43E+02	-3.48E+03	7.14E+01
		1121.30		34.90	4.78E+02		-2.57E+01	2.35E+02
		1189.05		16.23	7.46E+02		-2.16E+02	3.63E+02
		1221.41		26.98	3.58E+02		-5.67E+01	1.73E+02
		1231.02		11.44	7.93E+02		-4.58E+01	3.82E+02
	IR-192	308.46		29.68	3.94E+03	3.39E+03	3.30E+02	1.95E+03
		468.07		48.10	3.39E+03		-1.69E+02	1.68E+03
	HG-203	279.19		77.30	1.10E+05	1.10E+05	-3.11E+04	5.42E+04
	BI-207	569.67		97.72	1.01E+00	1.01E+00	1.36E-01	5.00E-01
		1063.62		74.90	2.16E+00		3.77E-01	1.06E+00
	TL-208	583.14		30.22	3.25E+00	7.97E-01	5.83E-01	1.60E+00
		860.37		4.48	3.15E+01		1.53E+01	1.55E+01
		2614.66		35.85	7.97E-01		2.91E-01	3.27E-01
	BI-210M	262.00		45.00	1.58E+00	1.58E+00	5.30E-01	7.84E-01
		300.00		23.00	3.21E+00		9.94E-01	1.59E+00
	PB-210	46.50		4.25	1.36E+01	1.36E+01	1.33E+01	6.77E+00
	PB-211	404.84		2.90	3.09E+01	3.09E+01	-6.03E+00	1.53E+01
		831.96		2.90	4.41E+01		-1.43E+01	2.17E+01
	BI-212	727.17		11.80	9.49E+00	9.49E+00	1.83E+00	4.67E+00
		1620.62		2.75	1.49E+01		3.51E+00	6.82E+00
	PB-212	238.63		44.60	1.60E+00	1.60E+00	1.42E+00	7.96E-01
		300.09		3.41	2.16E+01		6.70E+00	1.07E+01
+	BI-214	609.31	*	46.30	2.15E+00	2.15E+00	1.34E+00	1.06E+00
		1120.29		15.10	9.65E+00		-4.43E-01	4.74E+00
		1764.49		15.80	2.38E+00		-5.81E-01	1.07E+00
		2204.22		4.98	7.44E+00		1.53E+00	3.26E+00
	PB-214	295.21		19.19	3.81E+00	2.21E+00	-7.95E-01	1.89E+00
		351.92		37.19	2.21E+00		8.99E-01	1.09E+00
	RN-219	401.80		6.50	1.37E+01	1.37E+01	-2.55E+00	6.76E+00

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RA-223	323.87		3.88	1.97E+01	1.97E+01	7.63E+00	9.77E+00
	RA-224	240.98		3.95	1.81E+01	1.81E+01	1.17E+01	8.96E+00
	RA-225	40.00		31.00	1.09E+16	1.09E+16	-3.90E+16	5.43E+15
	RA-226	186.21		3.28	1.89E+01	1.89E+01	-2.75E+00	9.37E+00
	TH-227	50.10		8.40	7.48E+00	6.19E+00	1.82E+01	3.73E+00
		236.00		11.50	6.19E+00		-1.66E-01	3.07E+00
		256.20		6.30	1.12E+01		-6.74E-01	5.55E+00
	AC-228	338.32		11.40	6.84E+00	5.64E+00	-1.29E+00	3.38E+00
		911.07		27.70	5.64E+00		2.58E-02	2.78E+00
		969.11		16.60	9.59E+00		-1.97E+00	4.73E+00
	TH-230	48.44		16.90	3.54E+00	3.54E+00	9.46E+00	1.76E+00
		62.85		4.60	2.23E+01		7.89E+02	1.11E+01
		67.67		0.37	1.37E+02		-3.33E+03	6.83E+01
	PA-231	283.67		1.60	4.52E+01	3.22E+01	-3.84E+00	2.24E+01
		302.67		2.30	3.22E+01		-2.01E+00	1.59E+01
	TH-231	25.64		14.70	6.60E+00	6.60E+00	-1.99E+01	3.29E+00
		84.21		6.40	1.31E+01		1.16E+02	6.55E+00
	PA-233	311.98		38.60	1.12E+09	1.12E+09	4.47E+08	5.54E+08
	PA-234	131.20		20.40	2.48E+00	2.48E+00	-1.66E+00	1.23E+00
		733.99		8.80	1.28E+01		4.71E+00	6.31E+00
		946.00		12.00	1.43E+01		-2.96E+00	7.08E+00
	PA-234M	1001.03		0.92	1.72E+02	1.72E+02	1.24E+02	8.46E+01
	TH-234	63.29		3.80	2.28E+01	2.28E+01	3.50E+02	1.14E+01
	U-235	143.76		10.50	5.01E+00	5.01E+00	1.51E+00	2.48E+00
		163.35		4.70	1.29E+01		4.17E+01	6.40E+00
		205.31		4.70	1.39E+01		-3.92E-01	6.90E+00
	NP-237	86.50		12.60	7.61E+00	7.61E+00	2.31E+02	3.80E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.17E+00	3.17E+00	1.34E+02	1.58E+00
	AM-243	74.67		66.00	8.25E-01	8.25E-01	-3.33E-01	4.11E-01
	CM-243	209.75		3.29	2.13E+01	5.41E+00	-3.99E+00	1.06E+01
		228.14		10.60	7.06E+00		2.49E+00	3.50E+00
		277.60		14.00	5.41E+00		-1.31E+00	2.68E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1508002-01

GAS-1302

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1823

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	10	527	1552
17:	1735	2004	5418	18571	32173	25115	12797	11109
25:	7580	2615	955	731	856	1096	1379	1266
33:	1012	915	956	1041	1000	1078	1082	1192
41:	1440	1499	1612	1744	1956	2259	2828	3213
49:	3484	3643	3668	3685	3818	3915	4206	4755
57:	8904	20315	22552	10715	2509	1295	1333	1461
65:	1515	1680	1741	1728	1662	1684	1599	1665
73:	1621	1638	1646	1702	1722	1739	1690	1672
81:	1734	1777	1894	1879	2620	6610	11702	9299
89:	3086	988	846	837	870	797	811	847
97:	836	882	835	845	842	827	805	829
105:	868	826	871	850	862	847	819	836
113:	863	777	847	896	829	876	1011	1855
121:	3117	2712	1319	751	704	705	684	731
129:	701	696	699	787	687	765	907	952
137:	793	660	673	690	693	691	673	667
145:	655	689	655	634	645	664	624	682
153:	613	601	636	622	638	600	672	605
161:	614	644	712	843	984	894	698	590
169:	625	549	553	648	565	622	559	568
177:	565	555	621	555	594	583	642	587
185:	607	646	657	637	680	598	645	619
193:	624	605	645	600	624	616	593	574
201:	619	594	583	594	552	605	583	635
209:	586	613	614	563	584	624	625	647
217:	635	644	597	557	617	628	591	574
225:	621	613	584	583	594	574	555	555
233:	527	579	550	569	562	550	549	567
241:	527	508	491	527	476	501	485	497
249:	449	473	531	505	471	490	481	446
257:	482	470	453	453	473	483	444	436
265:	460	435	410	454	440	455	460	431
273:	452	445	423	416	413	440	415	417
281:	391	423	412	419	402	416	411	421
289:	413	389	421	390	362	404	397	403
297:	356	397	392	423	388	359	370	371
305:	377	367	372	378	402	375	399	376
313:	367	393	383	361	365	383	341	373
321:	382	355	385	367	364	350	341	336
329:	343	327	344	339	374	351	336	331
337:	339	368	363	358	349	315	363	323
345:	364	356	336	347	349	357	371	364
353:	341	359	367	362	315	338	332	356
361:	326	323	342	311	325	282	309	316

369:	334	315	341	300	306	326	343	333

Sample Title: GAS-1302

Channel								
377:	366	370	299	327	315	323	295	327
385:	326	333	331	313	317	362	420	406
393:	326	328	317	288	342	354	317	309
401:	299	310	334	303	340	360	319	347
409:	336	312	323	323	309	328	316	320
417:	332	346	323	351	293	305	326	316
425:	323	335	338	326	338	349	300	307
433:	319	335	322	311	317	317	360	332
441:	332	331	342	349	290	359	351	324
449:	345	368	306	320	334	307	330	373
457:	352	313	348	358	340	335	361	325
465:	331	359	340	321	350	330	316	319
473:	337	329	308	290	301	274	275	284
481:	258	261	284	287	263	261	241	253
489:	273	288	256	295	251	269	247	242
497:	240	246	255	238	248	182	240	245
505:	228	240	257	230	233	243	260	260
513:	237	209	228	220	202	212	243	204
521:	197	247	221	201	214	199	219	221
529:	223	232	214	232	212	205	182	194
537:	242	205	224	219	211	213	224	194
545:	202	184	198	206	196	200	193	224
553:	189	209	199	204	184	199	180	161
561:	195	191	189	185	206	187	198	178
569:	177	178	183	187	169	173	174	184
577:	150	204	196	186	186	211	195	199
585:	164	181	185	205	177	188	153	182
593:	181	163	191	162	173	169	166	178
601:	200	181	185	199	181	157	153	182
609:	221	193	193	170	179	175	181	172
617:	164	186	157	183	180	170	180	161
625:	162	189	180	189	166	169	169	171
633:	177	176	158	181	184	152	177	173
641:	152	173	171	170	176	172	183	162
649:	189	195	190	181	158	180	191	179
657:	182	221	716	2448	4454	3695	1339	281
665:	159	151	156	164	148	152	136	139
673:	144	142	137	132	157	160	146	152
681:	162	148	144	157	176	160	146	158
689:	146	146	142	133	150	129	144	160
697:	177	161	169	130	162	152	135	120
705:	136	131	141	133	148	135	159	140
713:	159	133	141	163	129	164	157	134
721:	147	150	165	170	169	141	158	144
729:	143	171	168	141	160	149	166	147
737:	142	180	154	148	157	142	143	146
745:	150	141	165	157	137	169	140	141
753:	157	141	143	161	146	165	155	139
761:	151	147	156	160	132	154	194	133
769:	162	162	151	164	152	141	170	149
777:	134	154	162	163	145	158	143	154
785:	151	157	160	150	162	148	157	158
793:	151	151	145	143	157	170	154	155

801:	159	158	182	145	147	153	177	166

Sample Title: GAS-1302

Channel								
809:	152	172	160	175	156	180	146	169
817:	158	153	157	175	149	188	178	179
825:	167	150	167	168	156	162	170	133
833:	165	150	177	153	178	156	174	162
841:	184	153	160	196	174	147	178	169
849:	175	168	162	167	150	162	165	190
857:	175	173	179	169	174	184	197	198
865:	188	163	196	193	168	186	187	189
873:	175	185	153	177	186	197	167	195
881:	193	176	187	182	189	180	192	201
889:	182	185	200	192	193	187	207	194
897:	263	295	217	194	207	185	193	190
905:	197	196	204	212	172	193	218	203
913:	174	204	218	201	201	210	193	166
921:	189	241	212	192	187	185	214	219
929:	227	199	225	227	211	207	236	191
937:	204	198	245	231	219	206	232	214
945:	220	228	234	242	214	243	228	220
953:	242	216	212	234	220	201	193	228
961:	209	228	211	221	216	192	194	171
969:	182	165	183	181	172	171	153	170
977:	175	158	155	173	180	149	167	192
985:	161	145	147	159	157	164	160	151
993:	186	168	163	147	173	164	168	153
1001:	174	160	168	195	173	137	154	163
1009:	148	157	159	145	156	173	169	165
1017:	155	154	151	155	172	141	170	149
1025:	143	165	159	144	140	152	135	151
1033:	160	153	151	145	150	159	168	166
1041:	129	155	168	147	140	134	138	123
1049:	140	148	148	175	155	132	140	138
1057:	122	156	151	145	155	155	147	137
1065:	146	138	131	139	155	138	119	148
1073:	144	161	140	145	128	149	152	153
1081:	142	139	130	138	167	140	156	159
1089:	156	145	166	169	162	153	170	126
1097:	165	131	156	153	141	142	142	134
1105:	145	155	153	161	157	135	155	154
1113:	136	127	148	137	136	112	136	111
1121:	106	99	102	104	104	110	93	84
1129:	89	98	82	81	80	97	98	99
1137:	102	91	107	97	74	83	91	96
1145:	62	75	78	95	104	91	92	79
1153:	88	83	81	83	79	87	75	69
1161:	71	77	79	90	102	73	83	76
1169:	75	189	727	2347	3436	2652	991	162
1177:	60	60	57	69	59	59	57	63
1185:	45	49	56	51	63	54	50	46
1193:	55	63	50	43	42	53	48	55
1201:	45	48	37	40	24	42	32	49
1209:	40	37	33	37	42	41	38	37
1217:	31	35	30	36	35	30	29	29
1225:	25	25	32	27	20	22	18	29

1233:	32	28	34	35	36	28	24	24

Sample Title: GAS-1302

Channel								
1241:	23	22	30	28	17	18	30	19
1249:	27	32	19	25	25	16	17	19
1257:	28	14	24	18	19	22	19	15
1265:	14	18	24	10	22	25	25	25
1273:	14	20	30	20	24	20	22	15
1281:	20	17	26	20	19	18	21	20
1289:	18	14	17	27	17	22	15	25
1297:	19	26	19	11	15	20	22	17
1305:	24	21	15	9	17	19	27	9
1313:	16	20	11	17	14	30	16	20
1321:	15	20	22	25	19	17	24	19
1329:	58	374	1479	2869	2753	1356	293	41
1337:	15	11	11	8	7	5	6	8
1345:	5	2	14	9	7	3	5	5
1353:	7	6	4	2	5	7	8	6
1361:	2	4	8	7	6	12	3	6
1369:	7	6	7	9	7	1	0	3
1377:	4	8	4	5	4	3	6	10
1385:	4	7	4	5	4	4	8	5
1393:	5	10	5	8	4	6	4	7
1401:	1	6	9	5	5	3	8	2
1409:	4	6	2	4	6	2	3	8
1417:	7	7	9	5	4	3	3	1
1425:	1	3	6	4	1	6	4	4
1433:	7	6	5	1	8	6	5	5
1441:	5	7	4	4	4	3	4	7
1449:	4	3	0	9	2	7	7	10
1457:	3	5	4	5	10	9	7	4
1465:	8	5	5	5	1	4	4	7
1473:	5	5	2	8	3	4	5	4
1481:	5	4	6	2	9	5	3	2
1489:	5	2	2	9	7	4	3	5
1497:	6	6	7	6	4	6	4	6
1505:	6	3	9	3	7	5	9	7
1513:	6	7	2	3	7	6	5	2
1521:	3	4	4	7	6	1	5	4
1529:	5	4	5	5	2	3	3	6
1537:	6	3	3	3	5	6	3	4
1545:	8	2	4	9	6	5	6	3
1553:	5	5	2	2	4	3	8	4
1561:	3	4	4	5	3	5	5	3
1569:	2	4	5	1	4	3	9	6
1577:	1	4	5	3	4	6	8	7
1585:	4	3	6	8	4	6	4	6
1593:	6	4	1	3	6	4	8	4
1601:	3	2	3	6	7	7	4	1
1609:	6	2	4	3	3	1	5	5
1617:	3	6	2	6	5	3	1	6
1625:	5	2	2	5	5	9	4	5
1633:	3	4	3	2	2	1	5	4
1641:	4	5	2	2	3	3	5	4
1649:	2	5	3	0	7	5	6	3
1657:	4	2	3	1	2	3	4	2

1665:	2	5	2	6	1	6	1	3

Sample Title: GAS-1302

Channel								
1673:	5	3	4	3	0	3	1	2
1681:	4	0	5	5	2	5	4	1
1689:	1	3	2	2	2	3	1	2
1697:	3	2	3	1	1	2	7	4
1705:	5	2	1	5	7	1	2	2
1713:	3	2	3	5	1	2	2	4
1721:	6	4	2	0	2	1	6	0
1729:	2	0	5	4	2	3	0	2
1737:	2	4	1	1	2	2	1	1
1745:	2	0	1	1	2	3	3	4
1753:	0	2	1	1	3	0	3	1
1761:	2	4	1	4	5	3	1	1
1769:	4	0	4	4	3	3	3	1
1777:	0	4	4	4	1	2	6	3
1785:	2	1	6	0	1	2	3	1
1793:	2	0	0	1	2	1	2	1
1801:	2	1	6	3	0	4	3	2
1809:	1	1	3	0	0	2	4	2
1817:	2	1	3	1	6	5	2	1
1825:	2	1	1	1	1	3	4	0
1833:	5	10	27	38	40	19	7	1
1841:	1	2	0	3	3	1	2	2
1849:	0	3	4	1	2	0	3	1
1857:	1	3	0	6	4	2	0	4
1865:	3	1	1	2	3	0	0	1
1873:	4	2	1	3	2	3	5	0
1881:	2	2	2	3	1	3	1	3
1889:	2	2	2	5	1	2	2	0
1897:	0	1	2	3	1	3	4	2
1905:	2	3	1	2	3	1	2	2
1913:	0	0	0	3	3	1	1	1
1921:	1	2	2	2	3	1	2	1
1929:	2	2	1	1	2	0	1	3
1937:	0	1	3	0	2	1	3	2
1945:	1	2	2	5	1	0	0	2
1953:	2	1	0	2	1	2	2	0
1961:	2	3	2	1	3	1	3	1
1969:	4	0	4	0	4	5	2	3
1977:	1	1	1	3	3	1	1	3
1985:	0	2	1	0	4	4	2	2
1993:	2	1	2	2	5	2	1	1
2001:	2	1	1	3	1	1	1	0
2009:	0	0	5	3	3	4	3	2
2017:	0	3	2	2	1	0	3	1
2025:	1	0	0	2	2	3	0	4
2033:	0	1	0	4	0	0	0	0
2041:	1	3	2	0	0	1	3	2
2049:	1	2	1	3	1	2	1	0
2057:	3	2	2	0	2	0	2	0
2065:	0	1	1	0	0	1	3	1
2073:	1	1	3	2	0	2	4	1
2081:	1	2	2	0	1	1	2	0
2089:	0	1	0	0	4	2	0	1

2097:	2	0	2	2	1	0	0	0

Sample Title: GAS-1302

Channel								
2105:	3	1	0	0	1	3	1	0
2113:	1	5	2	1	2	1	0	2
2121:	0	0	1	0	0	0	2	1
2129:	1	0	0	0	1	2	1	1
2137:	1	1	0	1	0	1	0	0
2145:	2	2	0	0	1	1	2	1
2153:	1	0	0	2	6	1	0	2
2161:	2	1	1	3	1	1	1	0
2169:	2	1	0	2	0	2	0	2
2177:	3	1	1	4	2	3	3	0
2185:	3	1	1	1	2	0	1	3
2193:	1	1	0	0	1	0	3	1
2201:	2	2	1	3	2	2	2	0
2209:	1	1	1	1	1	2	2	2
2217:	0	1	3	1	1	2	0	0
2225:	1	0	1	1	2	0	1	1
2233:	1	2	1	1	1	2	1	0
2241:	1	1	1	2	2	1	0	0
2249:	1	3	2	0	0	0	0	2
2257:	2	1	1	1	2	2	1	1
2265:	1	1	0	2	2	2	3	2
2273:	3	1	0	0	0	2	2	0
2281:	2	2	1	0	3	2	0	0
2289:	2	2	2	3	4	0	1	2
2297:	0	0	2	0	2	3	1	1
2305:	0	3	3	1	0	1	1	0
2313:	1	0	0	0	0	0	3	3
2321:	1	0	0	1	0	1	0	0
2329:	0	1	3	1	1	1	0	2
2337:	2	0	0	1	2	0	0	0
2345:	0	1	1	1	0	0	0	2
2353:	1	0	1	2	0	2	0	1
2361:	0	1	1	0	1	0	1	0
2369:	0	0	1	0	0	0	0	0
2377:	1	0	0	0	0	1	0	0
2385:	0	0	0	0	0	0	1	1
2393:	0	0	0	0	1	0	0	0
2401:	0	0	0	1	0	0	0	0
2409:	0	0	0	0	0	0	1	0
2417:	1	0	0	0	0	0	1	0
2425:	1	0	1	0	1	1	0	1
2433:	0	0	0	0	0	0	0	1
2441:	0	0	0	0	0	0	0	1
2449:	0	0	0	0	0	0	1	1
2457:	0	1	1	0	1	0	0	1
2465:	1	0	0	0	0	0	0	0
2473:	0	1	0	0	0	0	0	1
2481:	0	0	0	1	1	0	0	0
2489:	1	0	0	0	0	1	0	1
2497:	0	0	0	0	0	1	1	5
2505:	4	8	9	16	2	0	0	0
2513:	0	0	0	0	0	2	0	0
2521:	0	0	0	0	0	0	0	0

2529:	0	0	0	0	0	0	0	1

Sample Title: GAS-1302

Channel								
2537:	0	0	0	0	0	0	0	0
2545:	1	0	1	0	0	0	0	0
2553:	0	0	0	1	0	0	0	0
2561:	0	0	0	0	1	0	0	0
2569:	0	0	0	0	0	0	0	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	0	0	0	0	0	0
2593:	0	0	0	0	0	0	1	0
2601:	0	0	0	1	0	1	0	0
2609:	1	0	0	1	0	2	3	0
2617:	1	0	0	0	0	0	0	0
2625:	0	0	0	0	1	1	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	1	0	0	1	0	0
2657:	0	0	1	0	1	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	1	0	0	0	0	0
2681:	0	1	0	0	0	0	0	0
2689:	1	1	0	1	0	0	0	0
2697:	1	0	0	0	0	0	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	1	0	0
2721:	0	0	0	0	0	1	1	0
2729:	0	0	0	0	1	0	1	0
2737:	0	0	0	0	0	0	0	0
2745:	0	2	0	0	0	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	1	0	0	0	0	0	1	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	1	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	1	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	1	0	0
2825:	0	0	0	0	1	0	0	0
2833:	0	0	0	0	0	1	1	0
2841:	0	0	0	0	0	1	0	0
2849:	0	0	1	0	0	0	0	0
2857:	0	0	0	1	0	0	0	0
2865:	0	0	0	1	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	0	0	0	0
2897:	0	0	0	0	0	0	1	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	1	0	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	1	0	0	0	0	1	0	0
2945:	0	1	0	0	0	0	0	0
2953:	0	0	0	0	0	1	0	0

2961:	1	1	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	1	0	0
3025:	0	0	0	0	1	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	1
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	1	1
3073:	0	1	0	0	0	0	0	0
3081:	0	1	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	1	2	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	2	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	1
3193:	0	0	0	0	1	0	0	0
3201:	0	0	0	1	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	1	0	0	0	0
3241:	0	1	1	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	1
3265:	0	1	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	1	0	0
3289:	0	0	0	0	0	0	1	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	1	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	1
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: GAS-1302

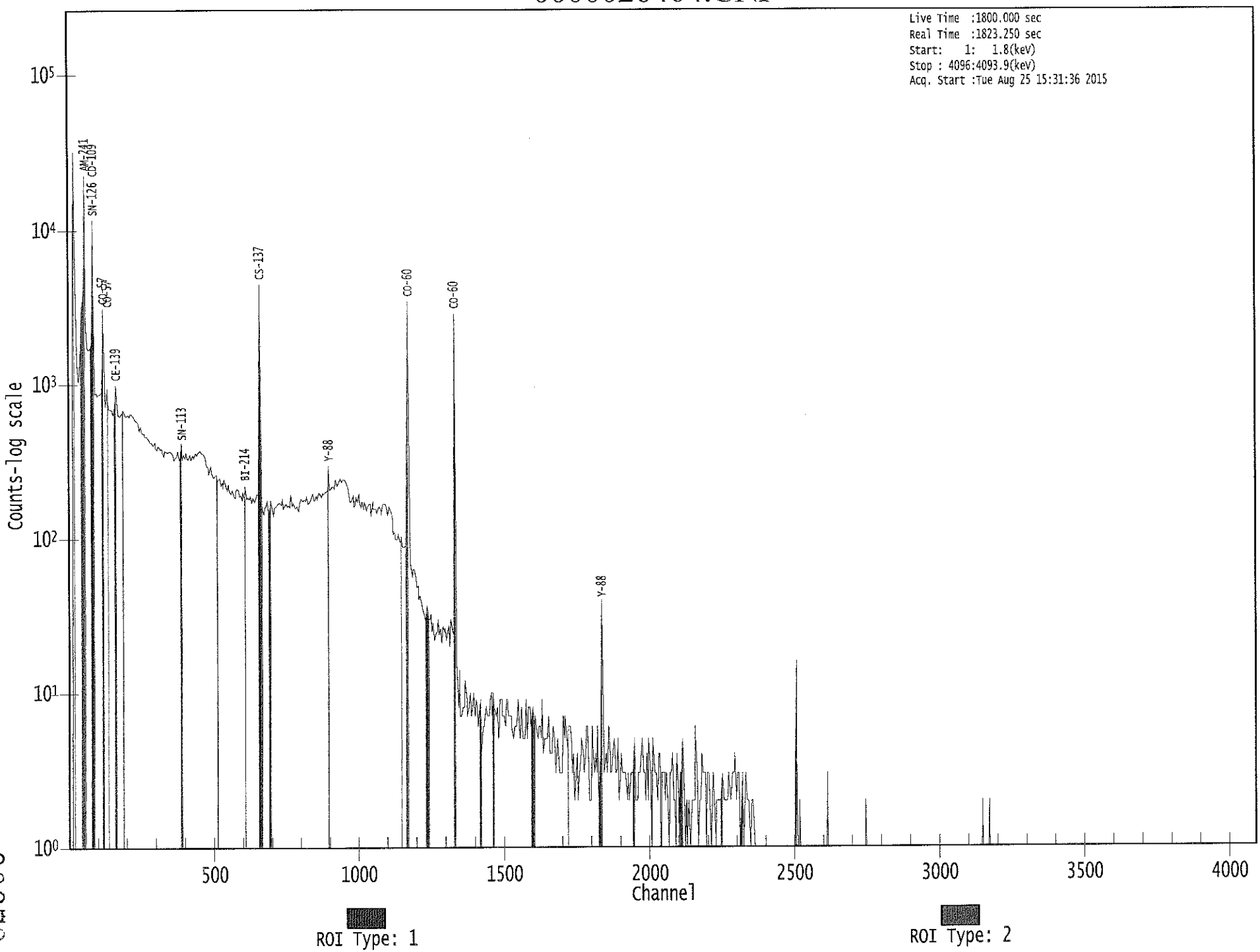
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	1	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	1	1
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	1
3473:	0	0	0	0	0	0	1	0
3481:	0	0	0	0	0	1	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	1	0	1
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	1	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	1	0	0	0	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	0	0	0	0	0
3649:	1	0	0	1	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	1	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	1
3713:	0	1	0	0	0	0	0	1
3721:	0	0	0	0	0	0	0	1
3729:	0	0	0	1	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	0	0	0	0	0	1	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	1	1	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	1	0	0	0	0
3913:	1	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	1	0	0	1	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	1
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	1	0	0	1
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026404.CNF



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Apex-Gamma

Analysis Report for 1508002-02
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GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 8/25/2015 10:33:39AM
Acquisition Started	: 8/25/2015 5:19:48PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 26417

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-02

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PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:19:50PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	47.91	47.16	0.0000	0.00
2	92.10	91.38	0.0000	0.00
3	112.36	111.65	0.0000	0.00
4	187.30	186.61	0.0000	0.00
5	424.31	423.73	0.0000	0.00
6	706.99	706.54	0.0000	0.00
7	768.30	767.88	0.0000	0.00
8	839.87	839.49	0.0000	0.00
9	851.28	850.91	0.0000	0.00
10	998.84	998.55	0.0000	0.00
11	1139.96	1139.74	0.0000	0.00
12	1174.25	1174.05	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-02

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PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	47.91	39 -	55	47.16	9.69E+01	65.66	3.72E+02	8.82
	2	92.10	86 -	96	91.38	1.04E+02	44.67	2.00E+02	2.92
	3	112.36	108 -	117	111.65	4.66E+01	32.70	1.29E+02	6.71
M	4	187.30	181 -	203	186.61	3.85E+01	39.50	1.89E+02	3.86
	5	424.31	422 -	426	423.73	1.00E+01	9.22	1.00E+01	1.77
	6	706.99	702 -	711	706.54	1.77E+01	15.65	2.46E+01	1.93
	7	768.30	760 -	775	767.88	1.50E+01	19.49	3.20E+01	1.24
	8	839.87	832 -	846	839.49	1.86E+01	18.89	2.88E+01	1.13
	9	851.28	848 -	853	850.91	8.38E+00	8.66	7.25E+00	1.18
	10	998.84	993 -	1003	998.55	8.50E+00	10.79	1.10E+01	1.45
	11	1139.96	1134 -	1142	1139.74	6.36E+00	9.19	9.27E+00	1.85
	12	1174.25	1169 -	1177	1174.05	6.06E+00	7.23	3.88E+00	3.11

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	47.91	39 -	55	9.69E+01	65.66	3.72E+02	5.15E+01
2	92.10	86 -	96	1.04E+02	44.67	2.00E+02	3.27E+01
3	112.36	108 -	117	4.66E+01	32.70	1.29E+02	2.44E+01

Analysis Report for 1508002-02

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	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	4	187.30	181 -	203	3.85E+01	39.50	1.89E+02	2.26E+01
	5	424.31	422 -	426	1.00E+01	9.22	1.00E+01	5.51E+00
	6	706.99	702 -	711	1.77E+01	15.65	2.46E+01	1.08E+01
	7	768.30	760 -	775	1.50E+01	19.49	3.20E+01	1.47E+01
	8	839.87	832 -	846	1.86E+01	18.89	2.88E+01	1.38E+01
	9	851.28	848 -	853	8.38E+00	8.66	7.25E+00	5.30E+00
	10	998.84	993 -	1003	8.50E+00	10.79	1.10E+01	7.47E+00
	11	1139.96	1134 -	1142	6.36E+00	9.19	9.27E+00	6.32E+00
	12	1174.25	1169 -	1177	6.06E+00	7.23	3.88E+00	4.35E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	47.91	39 -	55	47.16	9.69E+01	65.66	3.72E+02	TH-230
	2	92.10	86 -	96	91.38	1.04E+02	44.67	2.00E+02	ND-147
	3	112.36	108 -	117	111.65	4.66E+01	32.70	1.29E+02	.....
M	4	187.30	181 -	203	186.61	3.85E+01	39.50	1.89E+02	.....
	5	424.31	422 -	426	423.73	1.00E+01	9.22	1.00E+01	BA-140
	6	706.99	702 -	711	706.54	1.77E+01	15.65	2.46E+01	AG-110M
	7	768.30	760 -	775	767.88	1.50E+01	19.49	3.20E+01	.....
	8	839.87	832 -	846	839.49	1.86E+01	18.89	2.88E+01	.....
	9	851.28	848 -	853	850.91	8.38E+00	8.66	7.25E+00	.....
	10	998.84	993 -	1003	998.55	8.50E+00	10.79	1.10E+01	.....
	11	1139.96	1134 -	1142	1139.74	6.36E+00	9.19	9.27E+00	.....
	12	1174.25	1169 -	1177	1174.05	6.06E+00	7.23	3.88E+00	.....

Analysis Report for 1508002-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	47.91	9.69E+01	65.66	2.60E-02	1.78E-03
	2	92.10	1.04E+02	44.67	1.91E-02	1.62E-03
	3	112.36	4.66E+01	32.70	1.69E-02	1.56E-03
M	4	187.30	3.85E+01	39.50	1.16E-02	1.15E-03
	5	424.31	1.00E+01	9.22	5.53E-03	6.88E-04
	6	706.99	1.77E+01	15.65	3.35E-03	3.15E-04
	7	768.30	1.50E+01	19.49	3.08E-03	2.81E-04
	8	839.87	1.86E+01	18.89	2.83E-03	2.40E-04
	9	851.28	8.38E+00	8.66	2.79E-03	2.34E-04
	10	998.84	8.50E+00	10.79	2.39E-03	1.95E-04
	11	1139.96	6.36E+00	9.19	2.11E-03	1.77E-04
	12	1174.25	6.06E+00	7.23	2.05E-03	1.73E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Analysis Report for 1508002-02

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	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	47.91	9.69E+01	65.66			9.69E+01	6.57E+01
	2	92.10	1.04E+02	44.67	4.99E+01	7.70E+00	5.41E+01	4.53E+01
	3	112.36	4.66E+01	32.70			4.66E+01	3.27E+01
M	4	187.30	3.85E+01	39.50			3.85E+01	3.95E+01
	5	424.31	1.00E+01	9.22			1.00E+01	9.22E+00
	6	706.99	1.77E+01	15.65			1.77E+01	1.57E+01
	7	768.30	1.50E+01	19.49			1.50E+01	1.95E+01
	8	839.87	1.86E+01	18.89			1.86E+01	1.89E+01
	9	851.28	8.38E+00	8.66			8.38E+00	8.66E+00
	10	998.84	8.50E+00	10.79			8.50E+00	1.08E+01
	11	1139.96	6.36E+00	9.19			6.36E+00	9.19E+00
	12	1174.25	6.06E+00	7.23			6.06E+00	7.23E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	47.91	9.69E+01	65.66			9.69E+01	6.57E+01
	2	92.10	1.04E+02	44.67	4.99E+01	7.70E+00	5.41E+01	4.53E+01
	3	112.36	4.66E+01	32.70			4.66E+01	3.27E+01
M	4	187.30	3.85E+01	39.50			3.85E+01	3.95E+01
	5	424.31	1.00E+01	9.22			1.00E+01	9.22E+00
	6	706.99	1.77E+01	15.65			1.77E+01	1.57E+01
	7	768.30	1.50E+01	19.49			1.50E+01	1.95E+01
	8	839.87	1.86E+01	18.89			1.86E+01	1.89E+01
	9	851.28	8.38E+00	8.66			8.38E+00	8.66E+00
	10	998.84	8.50E+00	10.79			8.50E+00	1.08E+01
	11	1139.96	6.36E+00	9.19			6.36E+00	9.19E+00
	12	1174.25	6.06E+00	7.23			6.06E+00	7.23E+00

Analysis Report for 1508002-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
ND-147	0.610	91.11	*	28.90	9.57E-02	8.06E-02
		531.02		13.10		
TH-230	0.617	48.44	*	16.90	2.11E-01	1.44E-01
		62.85		4.60		
		67.67		0.37		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:19:50PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	112.36	1.29467E-02	35.07		
M	4	187.30	1.06937E-02	51.30		
	5	424.31	2.77778E-03	46.10	Tol.	BA-140
	6	706.99	4.91667E-03	44.22	Tol.	AG-110M
	7	768.30	4.16667E-03	64.98		

Analysis Report for 1508002-02

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
8	839.87	5.16414E-03	50.82		
9	851.28	2.32639E-03	51.70		
10	998.84	2.36111E-03	63.49		
11	1139.96	1.76768E-03	72.23		
12	1174.25	1.68403E-03	59.62		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
ND-147	0.61	91.11	*	28.90	9.57E-02	8.06E-02
		531.02		13.10		
TH-230	0.61	48.44	*	16.90	2.11E-01	1.44E-01
		62.85		4.60		
		67.67		0.37		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1508002-02

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
ND-147	0.610	9.57E-02	8.06E-02	
TH-230	0.617	2.11E-01	1.44E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:19:50PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	112.36	1.29467E-02	35.07		
M	4	187.30	1.06937E-02	51.30		
	5	424.31	2.77778E-03	46.10	Tol.	BA-140
	6	706.99	4.91667E-03	44.22	Tol.	AG-110M
	7	768.30	4.16667E-03	64.98		
	8	839.87	5.16414E-03	50.82		
	9	851.28	2.32639E-03	51.70		
	10	998.84	2.36111E-03	63.49		
	11	1139.96	1.76768E-03	72.23		
	12	1174.25	1.68403E-03	59.62		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	6.68E-02	5.67E-01	5.67E-01
+	NA-22	1274.54	99.94	-6.72E-03	4.68E-02	4.68E-02
+	NA-24	1368.53	99.99	1.67E-02	8.09E-02	8.09E-02
		2754.09	99.86	2.59E-02		1.20E-01
+	AL-26	1808.65	99.76	2.05E-02	7.36E-02	7.36E-02
+	K-40	1460.81	10.67	-2.13E-01	3.92E-01	3.92E-01
+	AR-41	1293.64	99.16	-5.92E-01	5.94E-01	5.94E-01

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TI-44	67.88	94.40	-7.39E-03	2.55E-02	2.55E-02
		78.34	96.00	-6.87E-03		2.62E-02
+	SC-46	889.25	99.98	3.83E-02	7.11E-02	8.07E-02
		1120.51	99.99	-9.15E-03		7.11E-02
+	V-48	983.52	99.98	0.00E+00	6.67E-02	6.67E-02
		1312.10	97.50	1.71E-02		8.07E-02
+	CR-51	320.08	9.83	2.20E-01	5.02E-01	5.02E-01
+	MN-54	834.83	99.97	1.87E-03	7.57E-02	7.57E-02
+	CO-56	846.75	99.96	4.15E-03	7.88E-02	7.88E-02
		1037.75	14.03	1.02E-01		5.39E-01
		1238.25	67.00	-2.37E-02		1.04E-01
		1771.40	15.51	-2.74E-01		3.19E-01
		2598.48	16.90	-1.94E-01		3.89E-01
+	CO-57	122.06	85.51	3.00E-03	3.36E-02	3.36E-02
		136.48	10.60	2.70E-02		2.99E-01
+	CO-58	810.76	99.40	3.93E-02	7.42E-02	7.42E-02
+	FE-59	1099.22	56.50	-4.05E-03	1.10E-01	1.30E-01
		1291.56	43.20	3.95E-03		1.10E-01
+	CO-60	1173.22	100.00	1.93E-02	7.40E-02	7.41E-02
		1332.49	100.00	0.00E+00		7.40E-02
+	ZN-65	1115.52	50.75	0.00E+00	1.46E-01	1.46E-01
+	GA-67	93.31	35.70	8.80E-02	9.24E-02	9.24E-02
		208.95	2.24	-3.63E-01		1.68E+00
		300.22	16.00	-4.75E-02		2.83E-01
+	SE-75	121.11	16.70	-7.08E-03	5.19E-02	1.68E-01
		136.00	59.20	-9.51E-03		5.19E-02
		264.65	59.80	-4.27E-02		7.01E-02
		279.53	25.20	5.59E-02		1.85E-01
		400.65	11.40	-1.01E-01		4.30E-01
+	RB-82	776.52	13.00	4.64E-03	4.90E-01	4.90E-01
+	RB-83	520.41	46.00	4.38E-02	1.30E-01	1.30E-01
		529.64	30.30	-5.58E-02		1.78E-01
		552.65	16.40	-1.23E-01		2.85E-01
+	KR-85	513.99	0.43	1.30E+01	1.76E+01	1.76E+01
+	SR-85	513.99	99.27	5.69E-02	7.73E-02	7.73E-02
+	Y-88	898.02	93.40	-8.09E-03	7.31E-02	7.31E-02
		1836.01	99.38	1.86E-02		9.12E-02
+	NB-93M	16.57	9.43	2.79E-01	2.17E-01	2.17E-01
+	NB-94	702.63	100.00	7.91E-03	7.07E-02	7.52E-02
		871.10	100.00	2.93E-03		7.07E-02
+	NB-95	765.79	99.81	8.05E-03	7.18E-02	7.18E-02
+	NB-95M	235.69	25.00	1.00E-02	1.96E-01	1.96E-01
+	ZR-95	724.18	43.70	9.54E-03	1.08E-01	1.27E-01
		756.72	55.30	7.69E-03		1.08E-01
+	MO-99	181.06	6.20	2.81E-02	6.19E-01	6.23E-01
		739.58	12.80	2.21E-01		6.19E-01
		778.00	4.50	8.39E-02		1.42E+00

Analysis Report for 1508002-02

BLANK

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RU-103	497.08	89.00	-1.21E-02	4.74E-02	4.74E-02
+	RU-106	621.84	9.80	-9.02E-02	5.49E-01	5.49E-01
+	AG-108M	433.93	89.90	3.14E-02	5.96E-02	5.96E-02
		614.37	90.40	1.49E-02		7.29E-02
		722.95	90.50	1.36E-02		6.09E-02
+	CD-109	88.03	3.72	5.09E-02	8.21E-01	8.21E-01
+	AG-110M	657.75	93.14	-1.42E-02	5.76E-02	5.76E-02
		677.61	10.53	-1.26E-01		5.86E-01
		706.67	16.46	2.44E-01		4.83E-01
		763.93	21.98	2.53E-02		3.16E-01
		884.67	71.63	-7.60E-03		1.00E-01
		1384.27	23.94	-5.29E-02		2.44E-01
+	CD-113M	263.70	0.02	-9.50E+01	1.83E+02	1.83E+02
+	SN-113	255.12	1.93	2.03E-01	7.59E-02	2.17E+00
		391.69	64.90	2.23E-02		7.59E-02
+	TE123M	159.00	84.10	-5.79E-03	4.27E-02	4.27E-02
+	SB-124	602.71	97.87	-2.93E-02	5.90E-02	5.90E-02
		645.85	7.26	-3.27E-01		8.13E-01
		722.78	11.10	1.23E-01		4.98E-01
		1691.02	49.00	6.92E-02		1.98E-01
+	I-125	35.49	6.49	1.21E-01	2.97E-01	2.97E-01
+	SB-125	176.33	6.89	-9.49E-02	1.75E-01	4.81E-01
		427.89	29.33	7.95E-03		1.75E-01
		463.38	10.35	-1.10E-01		4.29E-01
		600.56	17.80	1.22E-01		3.56E-01
		635.90	11.32	3.96E-03		5.70E-01
+	SB-126	414.70	83.30	-1.60E-02	5.93E-02	5.93E-02
		666.33	99.60	2.56E-02		6.34E-02
		695.00	99.60	2.26E-02		6.76E-02
		720.50	53.80	-5.52E-02		8.75E-02
+	SN-126	87.57	37.00	5.10E-03	8.22E-02	8.22E-02
+	SB-127	473.00	25.00	-7.77E-02	1.70E-01	2.11E-01
		685.20	35.70	2.74E-03		1.70E-01
		783.80	14.70	4.55E-02		4.13E-01
+	I-129	29.78	57.00	-1.34E-02	3.62E-02	3.62E-02
		33.60	13.20	3.76E-02		1.48E-01
		39.58	7.52	4.25E-02		2.55E-01
+	I-131	284.30	6.05	1.16E-01	6.56E-02	8.00E-01
		364.48	81.20	-2.10E-03		6.56E-02
		636.97	7.26	2.53E-01		9.49E-01
		722.89	1.80	7.74E-01		3.14E+00
+	TE-132	49.72	13.10	1.74E-01	5.16E-02	1.96E-01
		228.16	88.00	-6.01E-04		5.16E-02
+	BA-133	81.00	33.00	-1.79E-02	7.79E-02	7.79E-02
		302.84	17.80	-5.12E-02		2.28E-01
		356.01	60.00	-5.63E-03		8.20E-02
+	I-133	529.87	86.30	-2.49E-02	7.96E-02	7.96E-02
+	XE-133	81.00	38.00	-1.62E-02	7.04E-02	7.04E-02

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CS-134	563.23		8.38	-4.19E-01	6.17E-02	6.42E-01
		569.32		15.43	4.50E-02		4.23E-01
		604.70		97.60	-1.26E-02		6.17E-02
		795.84		85.40	-6.57E-03		7.34E-02
		801.93		8.73	-1.97E-01		7.92E-01
+	CS-135	268.24		16.00	3.63E-03	2.71E-01	2.71E-01
+	I-135	1131.51		22.50	3.48E-02	5.61E-01	7.16E-01
		1260.41		28.60	3.73E-02		5.61E-01
		1678.03		9.54	2.08E-01		1.55E+00
+	CS-136	153.22		7.46	2.20E-01	4.75E-02	4.79E-01
		163.89		4.61	2.48E-01		8.25E-01
		176.55		13.56	-4.91E-02		2.48E-01
		273.65		12.66	-7.19E-02		3.60E-01
		340.57		48.50	-1.32E-02		9.78E-02
		818.50		99.70	-2.68E-02		4.75E-02
		1048.07		79.60	2.30E-03		8.05E-02
		1235.34		19.70	-3.03E-02		3.31E-01
+	CS-137	661.65		85.12	-4.35E-02	5.72E-02	5.72E-02
+	LA-138	788.74		34.00	2.35E-02	1.02E-01	1.63E-01
		1435.80		66.00	-2.76E-02		1.02E-01
+	CE-139	165.85		80.35	1.71E-02	4.55E-02	4.55E-02
+	BA-140	162.64		6.70	2.41E-01	2.47E-01	5.69E-01
		304.84		4.50	2.80E-01		9.31E-01
		423.70		3.20	-4.10E-01		1.45E+00
		437.55		2.00	-1.82E-01		2.60E+00
		537.32		25.00	1.09E-01		2.47E-01
+	LA-140	328.77		20.50	-1.41E-01	7.04E-02	1.99E-01
		487.03		45.50	-2.41E-02		1.17E-01
		815.85		23.50	-1.22E-01		2.14E-01
		1596.49		95.49	-9.45E-03		7.04E-02
+	CE-141	145.44		48.40	-2.38E-02	6.53E-02	6.53E-02
+	CE-143	57.36		11.80	-1.13E-01	1.32E-01	2.26E-01
		293.26		42.00	1.86E-02		1.32E-01
		664.55		5.20	8.18E-02		1.25E+00
+	CE-144	133.54		10.80	-1.20E-01	2.75E-01	2.75E-01
+	PM-144	476.78		42.00	-3.97E-02	5.42E-02	1.30E-01
		618.01		98.60	-2.82E-02		5.42E-02
		696.49		99.49	2.33E-02		6.67E-02
+	PM-145	36.85		21.70	1.50E-02	4.58E-02	8.52E-02
		37.36		39.70	2.24E-03		4.58E-02
		42.30		15.10	4.95E-02		1.44E-01
		72.40		2.31	3.93E-01		1.05E+00
+	PM-146	453.90		39.94	9.27E-03	1.16E-01	1.16E-01
		735.90		14.01	1.53E-01		5.22E-01
		747.13		13.10	-1.00E-01		4.50E-01
+	ND-147	91.11	*	28.90	9.57E-02	1.30E-01	1.30E-01
		531.02		13.10	-3.71E-02		4.28E-01
+	PM-149	285.90		3.10	4.95E-02	1.64E+00	1.64E+00
+	EU-152	121.78		20.50	1.25E-02	1.40E-01	1.40E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	EU-152	244.69	5.40	-2.05E-01	1.40E-01	6.80E-01
		344.27	19.13	-1.05E-01		2.39E-01
		778.89	9.20	3.81E-02		6.45E-01
		964.01	10.40	9.94E-02		6.76E-01
		1085.78	7.22	-1.07E-01		1.00E+00
		1112.02	9.60	6.73E-02		8.39E-01
		1407.95	14.94	1.17E-01		4.43E-01
+	GD-153	97.43	31.30	-4.01E-02	7.81E-02	7.81E-02
		103.18	22.20	3.84E-02		1.12E-01
+	EU-154	123.07	40.50	6.74E-03	7.38E-02	7.38E-02
		723.30	19.70	6.24E-02		2.80E-01
		873.19	11.50	-3.72E-02		6.16E-01
		996.32	10.30	3.43E-01		7.57E-01
		1004.76	17.90	-5.82E-02		3.92E-01
		1274.45	35.50	-1.89E-02		1.32E-01
+	EU-155	86.50	30.90	2.85E-03	9.46E-02	9.46E-02
		105.30	20.70	-5.82E-03		1.25E-01
+	EU-156	811.77	10.40	3.90E-01	6.67E-01	7.00E-01
		1153.47	7.20	-6.47E-02		8.48E-01
		1230.71	8.90	1.71E-01		6.67E-01
+	HO-166M	184.41	72.60	5.20E-02	6.01E-02	6.01E-02
		280.45	29.60	-8.96E-03		1.55E-01
		410.94	11.10	-8.55E-02		4.58E-01
		711.69	54.10	2.66E-03		1.22E-01
+	TM-171	66.72	0.14	5.15E+00	1.78E+01	1.78E+01
+	HF-172	81.75	4.52	-1.18E-01	2.80E-01	5.85E-01
		125.81	11.30	1.74E-01		2.80E-01
+	LU-172	181.53	20.60	1.69E-02	1.20E-01	1.88E-01
		810.06	16.63	2.41E-01		4.56E-01
		912.12	15.25	-1.55E-01		3.94E-01
		1093.66	62.50	-2.81E-02		1.20E-01
+	LU-173	100.72	5.24	-1.84E-02	2.20E-01	4.43E-01
		272.11	21.20	9.34E-02		2.20E-01
+	HF-175	343.40	84.00	-1.02E-02	5.56E-02	5.56E-02
+	LU-176	88.34	13.30	2.05E-02	3.94E-02	2.43E-01
		201.83	86.00	1.37E-03		4.44E-02
		306.78	94.00	-2.68E-02		3.94E-02
+	TA-182	67.75	41.20	-1.69E-02	5.85E-02	5.85E-02
		1121.30	34.90	-9.85E-02		1.81E-01
		1189.05	16.23	-3.57E-02		4.86E-01
		1221.41	26.98	1.18E-01		3.00E-01
		1231.02	11.44	1.32E-01		5.13E-01
+	IR-192	308.46	29.68	-2.68E-02	1.01E-01	1.38E-01
		468.07	48.10	2.08E-02		1.01E-01
+	HG-203	279.19	77.30	1.82E-02	6.03E-02	6.03E-02
+	BI-207	569.67	97.72	7.10E-03	6.68E-02	6.68E-02
		1063.62	74.90	1.17E-02		9.90E-02
+	TL-208	583.14	30.22	-1.57E-02	1.67E-01	1.67E-01
		860.37	4.48	1.79E-01		1.51E+00

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	2614.66		35.85	6.48E-02	1.67E-01	3.27E-01
+	BI-210M	262.00		45.00	2.57E-02	9.81E-02	9.81E-02
		300.00		23.00	4.52E-02		1.97E-01
+	PB-210	46.50		4.25	3.95E-01	5.52E-01	5.52E-01
+	PB-211	404.84		2.90	9.45E-01	1.94E+00	1.94E+00
		831.96		2.90	1.54E-02		2.10E+00
+	BI-212	727.17		11.80	4.52E-02	5.02E-01	5.02E-01
		1620.62		2.75	-6.79E-01		1.67E+00
+	PB-212	238.63		44.60	5.06E-02	1.04E-01	1.04E-01
		300.09		3.41	3.05E-01		1.33E+00
+	BI-214	609.31		46.30	4.77E-02	1.51E-01	1.51E-01
		1120.29		15.10	-6.04E-02		4.70E-01
		1764.49		15.80	1.27E-01		5.08E-01
		2204.22		4.98	-4.08E-01		1.72E+00
+	PB-214	295.21		19.19	7.31E-02	1.29E-01	2.43E-01
		351.92		37.19	1.45E-03		1.29E-01
+	RN-219	401.80		6.50	-7.53E-02	8.04E-01	8.04E-01
+	RA-223	323.87		3.88	-3.80E-02	1.11E+00	1.11E+00
+	RA-224	240.98		3.95	6.97E-01	1.14E+00	1.14E+00
+	RA-225	40.00		31.00	1.05E-02	6.30E-02	6.30E-02
+	RA-226	186.21		3.28	9.85E-01	1.32E+00	1.32E+00
+	TH-227	50.10		8.40	2.56E-01	2.87E-01	2.87E-01
		236.00		11.50	2.06E-02		4.02E-01
		256.20		6.30	3.48E-01		7.16E-01
+	AC-228	338.32		11.40	-9.50E-03	2.31E-01	4.07E-01
		911.07		27.70	-1.94E-02		2.31E-01
		969.11		16.60	1.68E-02		4.72E-01
+	TH-230	48.44	*	16.90	2.11E-01	2.30E-01	2.30E-01
		62.85		4.60	3.90E-01		5.45E-01
		67.67		0.37	-1.88E+00		6.50E+00
+	PA-231	283.67		1.60	9.36E-01	1.76E+00	2.94E+00
		302.67		2.30	-3.96E-01		1.76E+00
+	TH-231	25.64		14.70	3.83E-02	1.53E-01	1.53E-01
		84.21		6.40	5.86E-02		4.30E-01
+	PA-233	311.98		38.60	-9.07E-03	1.11E-01	1.11E-01
+	PA-234	131.20		20.40	-5.64E-02	1.44E-01	1.44E-01
		733.99		8.80	3.15E-01		8.11E-01
		946.00		12.00	1.90E-01		5.97E-01
+	PA-234M	1001.03		0.92	-4.37E-01	7.92E+00	7.92E+00
+	TH-234	63.29		3.80	2.25E-01	6.49E-01	6.49E-01
+	U-235	143.76		10.50	4.27E-02	3.11E-01	3.11E-01
		163.35		4.70	2.38E-01		7.94E-01
		205.31		4.70	5.71E-02		7.38E-01
+	NP-237	86.50		12.60	6.98E-03	2.32E-01	2.32E-01
+	NP-239	106.10		22.70	-5.83E-03	1.25E-01	1.25E-01
		228.18		10.70	8.00E-02		4.43E-01
		277.60		14.10	-4.25E-02		3.52E-01

Analysis Report for 1508002-02

BLANK

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54	35.90	3.26E-02	6.83E-02	6.83E-02
+	AM-243	74.67	66.00	1.37E-03	3.69E-02	3.69E-02
+	CM-243	209.75	3.29	1.03E-01	3.25E-01	1.12E+00
		228.14	10.60	-4.68E-03		4.02E-01
		277.60	14.00	-3.91E-02		3.25E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	5.67E-01	5.67E-01	6.68E-02	2.58E-01
NA-22	1274.54	99.94	4.68E-02	4.68E-02	-6.72E-03	1.66E-02
NA-24	1368.53	99.99	8.09E-02	8.09E-02	1.67E-02	3.03E-02
	2754.09	99.86	1.20E-01		2.59E-02	4.26E-02
AL-26	1808.65	99.76	7.36E-02	7.36E-02	2.05E-02	2.75E-02
K-40	1460.81	10.67	3.92E-01	3.92E-01	-2.13E-01	1.24E-01
AR-41	1293.64	99.16	5.94E-01	5.94E-01	-5.92E-01	1.88E-01
TI-44	67.88	94.40	2.55E-02	2.55E-02	-7.39E-03	1.21E-02
	78.34	96.00	2.62E-02		-6.87E-03	1.25E-02
SC-46	889.25	99.98	8.07E-02	7.11E-02	3.83E-02	3.55E-02
	1120.51	99.99	7.11E-02		-9.15E-03	2.95E-02
V-48	983.52	99.98	6.67E-02	6.67E-02	0.00E+00	2.79E-02
	1312.10	97.50	8.07E-02		1.71E-02	3.31E-02
CR-51	320.08	9.83	5.02E-01	5.02E-01	2.20E-01	2.32E-01
MN-54	834.83	99.97	7.57E-02	7.57E-02	1.87E-03	3.33E-02
CO-56	846.75	99.96	7.88E-02	7.88E-02	4.15E-03	3.48E-02
	1037.75	14.03	5.39E-01		1.02E-01	2.29E-01
	1238.25	67.00	1.04E-01		-2.37E-02	4.18E-02

Analysis Report for 1508002-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	1771.40	15.51	3.19E-01	7.88E-02	-2.74E-01	1.01E-01
	2598.48	16.90	3.89E-01		-1.94E-01	1.23E-01
CO-57	122.06	85.51	3.36E-02	3.36E-02	3.00E-03	1.59E-02
	136.48	10.60	2.99E-01		2.70E-02	1.41E-01
CO-58	810.76	99.40	7.42E-02	7.42E-02	3.93E-02	3.26E-02
FE-59	1099.22	56.50	1.30E-01	1.10E-01	-4.05E-03	5.45E-02
	1291.56	43.20	1.10E-01		3.95E-03	3.90E-02
CO-60	1173.22	100.00	7.41E-02	7.40E-02	1.93E-02	3.07E-02
	1332.49	100.00	7.40E-02		0.00E+00	2.99E-02
ZN-65	1115.52	50.75	1.46E-01	1.46E-01	0.00E+00	6.13E-02
GA-67	93.31	35.70	9.24E-02	9.24E-02	8.80E-02	4.42E-02
	208.95	2.24	1.68E+00		-3.63E-01	7.79E-01
	300.22	16.00	2.83E-01		-4.75E-02	1.30E-01
SE-75	121.11	16.70	1.68E-01	5.19E-02	-7.08E-03	7.91E-02
	136.00	59.20	5.19E-02		-9.51E-03	2.45E-02
	264.65	59.80	7.01E-02		-4.27E-02	3.25E-02
	279.53	25.20	1.85E-01		5.59E-02	8.60E-02
	400.65	11.40	4.30E-01		-1.01E-01	1.96E-01
RB-82	776.52	13.00	4.90E-01	4.90E-01	4.64E-03	2.12E-01
RB-83	520.41	46.00	1.30E-01	1.30E-01	4.38E-02	5.88E-02
	529.64	30.30	1.78E-01		-5.58E-02	7.95E-02
	552.65	16.40	2.85E-01		-1.23E-01	1.24E-01
KR-85	513.99	0.43	1.76E+01	1.76E+01	1.30E+01	8.16E+00
SR-85	513.99	99.27	7.73E-02	7.73E-02	5.69E-02	3.58E-02
Y-88	898.02	93.40	7.31E-02	7.31E-02	-8.09E-03	3.13E-02
	1836.01	99.38	9.12E-02		1.86E-02	3.62E-02
NB-93M	16.57	9.43	2.17E-01	2.17E-01	2.79E-01	1.04E-01
NB-94	702.63	100.00	7.52E-02	7.07E-02	7.91E-03	3.38E-02
	871.10	100.00	7.07E-02		2.93E-03	3.06E-02
NB-95	765.79	99.81	7.18E-02	7.18E-02	8.05E-03	3.17E-02
NB-95M	235.69	25.00	1.96E-01	1.96E-01	1.00E-02	9.21E-02
ZR-95	724.18	43.70	1.27E-01	1.08E-01	9.54E-03	5.43E-02
	756.72	55.30	1.08E-01		7.69E-03	4.66E-02
MO-99	181.06	6.20	6.23E-01	6.19E-01	2.81E-02	2.92E-01
	739.58	12.80	6.19E-01		2.21E-01	2.75E-01
	778.00	4.50	1.42E+00		8.39E-02	6.08E-01
RU-103	497.08	89.00	4.74E-02	4.74E-02	-1.21E-02	2.06E-02
RU-106	621.84	9.80	5.49E-01	5.49E-01	-9.02E-02	2.40E-01
AG-108M	433.93	89.90	5.96E-02	5.96E-02	3.14E-02	2.71E-02
	614.37	90.40	7.29E-02		1.49E-02	3.27E-02
	722.95	90.50	6.09E-02		1.36E-02	2.61E-02
CD-109	88.03	3.72	8.21E-01	8.21E-01	5.09E-02	3.93E-01
AG-110M	657.75	93.14	5.76E-02	5.76E-02	-1.42E-02	2.49E-02
	677.61	10.53	5.86E-01		-1.26E-01	2.58E-01
	706.67	16.46	4.83E-01		2.44E-01	2.18E-01
	763.93	21.98	3.16E-01		2.53E-02	1.39E-01
	884.67	71.63	1.00E-01		-7.60E-03	4.34E-02
	1384.27	23.94	2.44E-01		-5.29E-02	9.14E-02
CD-113M	263.70	0.02	1.83E+02	1.83E+02	-9.50E+01	8.49E+01
SN-113	255.12	1.93	2.17E+00	7.59E-02	2.03E-01	1.01E+00
	391.69	64.90	7.59E-02		2.23E-02	3.46E-02
TE123M	159.00	84.10	4.27E-02	4.27E-02	-5.79E-03	2.02E-02
SB-124	602.71	97.87	5.90E-02	5.90E-02	-2.93E-02	2.61E-02

Analysis Report for 1508002-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SB-124	645.85	7.26	8.13E-01	5.90E-02	-3.27E-01	3.57E-01
	722.78	11.10	4.98E-01		1.23E-01	2.13E-01
	1691.02	49.00	1.98E-01		6.92E-02	8.13E-02
I-125	35.49	6.49	2.97E-01	2.97E-01	1.21E-01	1.41E-01
SB-125	176.33	6.89	4.81E-01	1.75E-01	-9.49E-02	2.25E-01
	427.89	29.33	1.75E-01		7.95E-03	7.97E-02
	463.38	10.35	4.29E-01		-1.10E-01	1.90E-01
	600.56	17.80	3.56E-01		1.22E-01	1.59E-01
	635.90	11.32	5.70E-01		3.96E-03	2.54E-01
SB-126	414.70	83.30	5.93E-02	5.93E-02	-1.60E-02	2.68E-02
	666.33	99.60	6.34E-02		2.56E-02	2.80E-02
	695.00	99.60	6.76E-02		2.26E-02	2.99E-02
	720.50	53.80	8.75E-02		-5.52E-02	3.63E-02
SN-126	87.57	37.00	8.22E-02	8.22E-02	5.10E-03	3.93E-02
SB-127	473.00	25.00	2.11E-01	1.70E-01	-7.77E-02	9.47E-02
	685.20	35.70	1.70E-01		2.74E-03	7.40E-02
	783.80	14.70	4.13E-01		4.55E-02	1.76E-01
I-129	29.78	57.00	3.62E-02	3.62E-02	-1.34E-02	1.73E-02
	33.60	13.20	1.48E-01		3.76E-02	7.07E-02
	39.58	7.52	2.55E-01		4.25E-02	1.21E-01
I-131	284.30	6.05	8.00E-01	6.56E-02	1.16E-01	3.73E-01
	364.48	81.20	6.56E-02		-2.10E-03	3.02E-02
	636.97	7.26	9.49E-01		2.53E-01	4.25E-01
	722.89	1.80	3.14E+00		7.74E-01	1.35E+00
TE-132	49.72	13.10	1.96E-01	5.16E-02	1.74E-01	9.37E-02
	228.16	88.00	5.16E-02		-6.01E-04	2.42E-02
BA-133	81.00	33.00	7.79E-02	7.79E-02	-1.79E-02	3.70E-02
	302.84	17.80	2.28E-01		-5.12E-02	1.04E-01
	356.01	60.00	8.20E-02		-5.63E-03	3.77E-02
I-133	529.87	86.30	7.96E-02	7.96E-02	-2.49E-02	3.55E-02
XE-133	81.00	38.00	7.04E-02	7.04E-02	-1.62E-02	3.35E-02
CS-134	563.23	8.38	6.42E-01	6.17E-02	-4.19E-01	2.84E-01
	569.32	15.43	4.23E-01		4.50E-02	1.91E-01
	604.70	97.60	6.17E-02		-1.26E-02	2.74E-02
	795.84	85.40	7.34E-02		-6.57E-03	3.16E-02
	801.93	8.73	7.92E-01		-1.97E-01	3.46E-01
CS-135	268.24	16.00	2.71E-01	2.71E-01	3.63E-03	1.26E-01
I-135	1131.51	22.50	7.16E-01	5.61E-01	3.48E-02	3.00E-01
	1260.41	28.60	5.61E-01		3.73E-02	2.30E-01
	1678.03	9.54	1.55E+00		2.08E-01	5.80E-01
CS-136	153.22	7.46	4.79E-01	4.75E-02	2.20E-01	2.27E-01
	163.89	4.61	8.25E-01		2.48E-01	3.90E-01
	176.55	13.56	2.48E-01		-4.91E-02	1.16E-01
	273.65	12.66	3.60E-01		-7.19E-02	1.68E-01
	340.57	48.50	9.78E-02		-1.32E-02	4.49E-02
	818.50	99.70	4.75E-02		-2.68E-02	1.92E-02
	1048.07	79.60	8.05E-02		2.30E-03	3.30E-02
	1235.34	19.70	3.31E-01		-3.03E-02	1.31E-01
CS-137	661.65	85.12	5.72E-02	5.72E-02	-4.35E-02	2.43E-02
LA-138	788.74	34.00	1.63E-01	1.02E-01	2.35E-02	6.90E-02
	1435.80	66.00	1.02E-01		-2.76E-02	3.95E-02
CE-139	165.85	80.35	4.55E-02	4.55E-02	1.71E-02	2.15E-02
BA-140	162.64	6.70	5.69E-01	2.47E-01	2.41E-01	2.69E-01

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-140	304.84		4.50	9.31E-01	2.47E-01	2.80E-01	4.27E-01
		423.70		3.20	1.45E+00		-4.10E-01	6.53E-01
		437.55		2.00	2.60E+00		-1.82E-01	1.18E+00
		537.32		25.00	2.47E-01		1.09E-01	1.11E-01
	LA-140	328.77		20.50	1.99E-01	7.04E-02	-1.41E-01	9.01E-02
		487.03		45.50	1.17E-01		-2.41E-02	5.26E-02
		815.85		23.50	2.14E-01		-1.22E-01	8.78E-02
		1596.49		95.49	7.04E-02		-9.45E-03	2.64E-02
	CE-141	145.44		48.40	6.53E-02	6.53E-02	-2.38E-02	3.07E-02
	CE-143	57.36		11.80	2.26E-01	1.32E-01	-1.13E-01	1.08E-01
		293.26		42.00	1.32E-01		1.86E-02	6.12E-02
		664.55		5.20	1.25E+00		8.18E-02	5.44E-01
	CE-144	133.54		10.80	2.75E-01	2.75E-01	-1.20E-01	1.29E-01
	PM-144	476.78		42.00	1.30E-01	5.42E-02	-3.97E-02	5.90E-02
		618.01		98.60	5.42E-02		-2.82E-02	2.37E-02
		696.49		99.49	6.67E-02		2.33E-02	2.95E-02
	PM-145	36.85		21.70	8.52E-02	4.58E-02	1.50E-02	4.05E-02
		37.36		39.70	4.58E-02		2.24E-03	2.17E-02
		42.30		15.10	1.44E-01		4.95E-02	6.89E-02
		72.40		2.31	1.05E+00		3.93E-01	5.01E-01
	PM-146	453.90		39.94	1.16E-01	1.16E-01	9.27E-03	5.17E-02
		735.90		14.01	5.22E-01		1.53E-01	2.32E-01
		747.13		13.10	4.50E-01		-1.00E-01	1.94E-01
+	ND-147	91.11	*	28.90	1.30E-01	1.30E-01	9.57E-02	6.24E-02
		531.02		13.10	4.28E-01		-3.71E-02	1.91E-01
	PM-149	285.90		3.10	1.64E+00	1.64E+00	4.95E-02	7.64E-01
	EU-152	121.78		20.50	1.40E-01	1.40E-01	1.25E-02	6.60E-02
		244.69		5.40	6.80E-01		-2.05E-01	3.14E-01
		344.27		19.13	2.39E-01		-1.05E-01	1.09E-01
		778.89		9.20	6.45E-01		3.81E-02	2.76E-01
		964.01		10.40	6.76E-01		9.94E-02	2.88E-01
		1085.78		7.22	1.00E+00		-1.07E-01	4.20E-01
		1112.02		9.60	8.39E-01		6.73E-02	3.57E-01
		1407.95		14.94	4.43E-01		1.17E-01	1.72E-01
	GD-153	97.43		31.30	7.81E-02	7.81E-02	-4.01E-02	3.68E-02
		103.18		22.20	1.12E-01		3.84E-02	5.29E-02
	EU-154	123.07		40.50	7.38E-02	7.38E-02	6.74E-03	3.49E-02
		723.30		19.70	2.80E-01		6.24E-02	1.20E-01
		873.19		11.50	6.16E-01		-3.72E-02	2.67E-01
		996.32		10.30	7.57E-01		3.43E-01	3.26E-01
		1004.76		17.90	3.92E-01		-5.82E-02	1.66E-01
		1274.45		35.50	1.32E-01		-1.89E-02	4.67E-02
	EU-155	86.50		30.90	9.46E-02	9.46E-02	2.85E-03	4.52E-02
		105.30		20.70	1.25E-01		-5.82E-03	5.87E-02
	EU-156	811.77		10.40	7.00E-01	6.67E-01	3.90E-01	3.07E-01
		1153.47		7.20	8.48E-01		-6.47E-02	3.37E-01
		1230.71		8.90	6.67E-01		1.71E-01	2.59E-01
	HO-166M	184.41		72.60	6.01E-02	6.01E-02	5.20E-02	2.85E-02
		280.45		29.60	1.55E-01		-8.96E-03	7.21E-02
		410.94		11.10	4.58E-01		-8.55E-02	2.08E-01
		711.69		54.10	1.22E-01		2.66E-03	5.40E-02
	TM-171	66.72		0.14	1.78E+01	1.78E+01	5.15E+00	8.48E+00
	HF-172	81.75		4.52	5.85E-01	2.80E-01	-1.18E-01	2.78E-01

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HF-172	125.81		11.30	2.80E-01	2.80E-01	1.74E-01	1.33E-01
	LU-172	181.53		20.60	1.88E-01	1.20E-01	1.69E-02	8.84E-02
		810.06		16.63	4.56E-01		2.41E-01	2.00E-01
		912.12		15.25	3.94E-01		-1.55E-01	1.64E-01
		1093.66		62.50	1.20E-01		-2.81E-02	5.04E-02
	LU-173	100.72		5.24	4.43E-01	2.20E-01	-1.84E-02	2.08E-01
		272.11		21.20	2.20E-01		9.34E-02	1.03E-01
	HF-175	343.40		84.00	5.56E-02	5.56E-02	-1.02E-02	2.55E-02
	LU-176	88.34		13.30	2.43E-01	3.94E-02	2.05E-02	1.16E-01
		201.83		86.00	4.44E-02		1.37E-03	2.08E-02
		306.78		94.00	3.94E-02		-2.68E-02	1.79E-02
	TA-182	67.75		41.20	5.85E-02	5.85E-02	-1.69E-02	2.79E-02
		1121.30		34.90	1.81E-01		-9.85E-02	7.32E-02
		1189.05		16.23	4.86E-01		-3.57E-02	2.04E-01
		1221.41		26.98	3.00E-01		1.18E-01	1.26E-01
		1231.02		11.44	5.13E-01		1.32E-01	1.99E-01
	IR-192	308.46		29.68	1.38E-01	1.01E-01	-2.68E-02	6.29E-02
		468.07		48.10	1.01E-01		2.08E-02	4.53E-02
	HG-203	279.19		77.30	6.03E-02	6.03E-02	1.82E-02	2.81E-02
	BI-207	569.67		97.72	6.68E-02	6.68E-02	7.10E-03	3.02E-02
		1063.62		74.90	9.90E-02		1.17E-02	4.18E-02
	TL-208	583.14		30.22	1.67E-01	1.67E-01	-1.57E-02	7.29E-02
		860.37		4.48	1.51E+00		1.79E-01	6.50E-01
		2614.66		35.85	3.27E-01		6.48E-02	1.30E-01
	BI-210M	262.00		45.00	9.81E-02	9.81E-02	2.57E-02	4.57E-02
		300.00		23.00	1.97E-01		4.52E-02	9.11E-02
	PB-210	46.50		4.25	5.52E-01	5.52E-01	3.95E-01	2.65E-01
	PB-211	404.84		2.90	1.94E+00	1.94E+00	9.45E-01	8.92E-01
		831.96		2.90	2.10E+00		1.54E-02	8.94E-01
	BI-212	727.17		11.80	5.02E-01	5.02E-01	4.52E-02	2.17E-01
		1620.62		2.75	1.67E+00		-6.79E-01	5.26E-01
	PB-212	238.63		44.60	1.04E-01	1.04E-01	5.06E-02	4.89E-02
		300.09		3.41	1.33E+00		3.05E-01	6.15E-01
	BI-214	609.31		46.30	1.51E-01	1.51E-01	4.77E-02	6.81E-02
		1120.29		15.10	4.70E-01		-6.04E-02	1.95E-01
		1764.49		15.80	5.08E-01		1.27E-01	1.97E-01
		2204.22		4.98	1.72E+00		-4.08E-01	6.43E-01
	PB-214	295.21		19.19	2.43E-01	1.29E-01	7.31E-02	1.13E-01
		351.92		37.19	1.29E-01		1.45E-03	5.95E-02
	RN-219	401.80		6.50	8.04E-01	8.04E-01	-7.53E-02	3.68E-01
	RA-223	323.87		3.88	1.11E+00	1.11E+00	-3.80E-02	5.09E-01
	RA-224	240.98		3.95	1.14E+00	1.14E+00	6.97E-01	5.34E-01
	RA-225	40.00		31.00	6.30E-02	6.30E-02	1.05E-02	2.99E-02
	RA-226	186.21		3.28	1.32E+00	1.32E+00	9.85E-01	6.25E-01
	TH-227	50.10		8.40	2.87E-01	2.87E-01	2.56E-01	1.37E-01
		236.00		11.50	4.02E-01		2.06E-02	1.89E-01
		256.20		6.30	7.16E-01		3.48E-01	3.35E-01
	AC-228	338.32		11.40	4.07E-01	2.31E-01	-9.50E-03	1.87E-01
		911.07		27.70	2.31E-01		-1.94E-02	9.75E-02
		969.11		16.60	4.72E-01		1.68E-02	2.04E-01
+	TH-230	48.44	*	16.90	2.30E-01	2.30E-01	2.11E-01	1.12E-01
		62.85		4.60	5.45E-01		3.90E-01	2.60E-01
		67.67		0.37	6.50E+00		-1.88E+00	3.09E+00

Analysis Report for 1508002-02

BLANK

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
PA-231	283.67	1.60	2.94E+00	1.76E+00	9.36E-01	1.37E+00
	302.67	2.30	1.76E+00		-3.96E-01	8.06E-01
TH-231	25.64	14.70	1.53E-01	1.53E-01	3.83E-02	7.36E-02
	84.21	6.40	4.30E-01		5.86E-02	2.05E-01
PA-233	311.98	38.60	1.11E-01	1.11E-01	-9.07E-03	5.10E-02
PA-234	131.20	20.40	1.44E-01	1.44E-01	-5.64E-02	6.76E-02
	733.99	8.80	8.11E-01		3.15E-01	3.60E-01
	946.00	12.00	5.97E-01		1.90E-01	2.56E-01
PA-234M	1001.03	0.92	7.92E+00	7.92E+00	-4.37E-01	3.37E+00
TH-234	63.29	3.80	6.49E-01	6.49E-01	2.25E-01	3.10E-01
U-235	143.76	10.50	3.11E-01	3.11E-01	4.27E-02	1.47E-01
	163.35	4.70	7.94E-01		2.38E-01	3.76E-01
	205.31	4.70	7.38E-01		5.71E-02	3.43E-01
NP-237	86.50	12.60	2.32E-01	2.32E-01	6.98E-03	1.11E-01
NP-239	106.10	22.70	1.25E-01	1.25E-01	-5.83E-03	5.88E-02
	228.18	10.70	4.43E-01		8.00E-02	2.08E-01
	277.60	14.10	3.52E-01		-4.25E-02	1.64E-01
AM-241	59.54	35.90	6.83E-02	6.83E-02	3.26E-02	3.27E-02
AM-243	74.67	66.00	3.69E-02	3.69E-02	1.37E-03	1.75E-02
CM-243	209.75	3.29	1.12E+00	3.25E-01	1.03E-01	5.23E-01
	228.14	10.60	4.02E-01		-4.68E-03	1.88E-01
	277.60	14.00	3.25E-01		-3.91E-02	1.51E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1508002-02

BLANK

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	19	46
17:	32	34	27	21	23	26	30	25
25:	27	19	26	15	22	11	21	21
33:	8	18	24	12	8	15	9	8
41:	16	19	17	15	29	32	16	15
49:	18	15	12	13	26	12	11	9
57:	20	15	13	13	22	27	28	15
65:	12	12	9	15	12	16	15	13
73:	12	17	16	12	15	8	15	16
81:	13	14	14	20	18	11	19	21
89:	19	18	25	34	28	14	10	5
97:	5	6	10	8	5	10	14	15
105:	10	10	7	3	18	16	12	10
113:	12	11	17	8	4	11	7	8
121:	11	17	10	14	12	11	16	8
129:	11	10	6	10	6	10	13	15
137:	7	12	13	12	11	15	9	9
145:	12	8	7	6	10	11	9	13
153:	13	11	11	11	13	9	13	9
161:	13	10	12	12	12	16	7	4
169:	11	12	6	5	9	8	7	7
177:	9	3	11	12	7	9	8	14
185:	15	21	16	16	10	5	10	7
193:	4	9	8	15	12	11	9	11
201:	8	7	4	5	9	4	6	9
209:	8	5	6	8	11	7	8	10
217:	9	10	11	8	10	5	9	11
225:	6	9	5	11	13	7	6	12
233:	8	8	8	12	8	12	12	10
241:	9	6	2	7	8	2	3	2
249:	6	3	5	6	13	1	4	9
257:	9	10	9	9	9	4	6	4
265:	4	4	8	8	7	9	9	6
273:	5	6	9	2	8	10	4	11
281:	6	10	3	7	2	8	12	4
289:	8	2	7	6	6	8	9	10
297:	4	3	4	6	6	4	6	2
305:	5	4	4	4	2	1	7	10
313:	1	5	8	5	6	8	3	5
321:	5	8	6	4	1	5	3	3
329:	5	2	2	8	7	6	4	6
337:	4	6	9	2	3	3	5	5
345:	3	8	4	7	2	7	8	3
353:	8	3	1	6	3	4	8	6
361:	3	6	3	3	8	4	8	6

369:	6	7	4	3	6	5	6	6

Sample Title: BLANK

Channel								
377:	4	11	3	5	4	5	3	3
385:	4	2	3	6	6	1	7	2
393:	3	3	5	3	1	5	5	7
401:	3	2	2	6	8	4	4	9
409:	3	3	2	4	3	3	3	6
417:	3	4	4	4	2	0	5	7
425:	2	1	1	2	5	3	7	1
433:	4	5	2	7	1	2	3	3
441:	4	4	2	5	4	1	2	4
449:	2	1	4	2	1	5	2	2
457:	4	1	1	5	1	1	2	3
465:	3	3	1	2	2	6	4	0
473:	3	2	3	3	2	7	6	4
481:	5	3	6	2	3	6	1	2
489:	1	2	1	5	2	2	3	1
497:	1	2	2	1	1	2	3	1
505:	3	2	1	7	1	12	17	7
513:	3	4	1	5	3	3	4	1
521:	2	7	4	1	2	3	1	7
529:	3	0	2	2	3	3	2	4
537:	4	1	4	5	3	3	3	1
545:	2	3	1	0	1	3	1	2
553:	2	2	4	0	7	2	1	4
561:	1	2	3	4	1	2	2	3
569:	2	9	3	0	8	4	3	2
577:	1	3	1	1	1	3	2	2
585:	2	3	1	1	2	3	1	4
593:	2	2	0	7	3	2	4	2
601:	1	4	0	2	1	4	1	7
609:	3	3	3	4	4	2	2	4
617:	1	3	1	2	1	0	3	1
625:	4	1	2	2	1	2	2	0
633:	6	1	3	2	1	8	0	4
641:	2	4	1	1	4	1	2	1
649:	2	1	4	2	2	1	2	4
657:	3	1	1	0	0	4	1	1
665:	0	6	1	2	1	3	0	4
673:	1	4	1	6	1	1	0	2
681:	2	1	3	4	1	1	1	0
689:	2	1	2	3	2	0	2	2
697:	4	3	2	2	2	1	0	2
705:	5	9	5	2	3	2	1	1
713:	2	2	1	1	0	2	0	0
721:	2	1	0	2	3	2	2	0
729:	1	1	3	1	1	3	3	1
737:	0	8	2	3	0	5	0	3
745:	0	1	0	2	2	3	2	1
753:	2	0	4	1	1	2	2	0
761:	2	0	1	1	3	7	1	3
769:	1	2	3	2	2	2	1	1
777:	0	2	1	3	2	0	1	0
785:	1	3	0	1	1	1	1	2
793:	0	1	1	1	4	1	2	1

801:	2	4	1	2	2	1	2	3

Sample Title: BLANK

Channel								
809:	3	3	3	0	2	1	0	0
817:	0	0	1	1	0	3	1	2
825:	1	2	0	2	0	2	1	0
833:	1	3	0	2	2	7	1	2
841:	1	3	3	2	3	3	0	3
849:	1	1	2	5	0	0	1	1
857:	1	1	3	0	1	3	2	1
865:	3	1	2	0	4	2	1	1
873:	3	0	1	2	0	2	2	2
881:	2	1	0	2	5	0	1	1
889:	1	4	1	3	2	1	0	1
897:	1	2	0	3	2	2	0	0
905:	3	3	2	0	0	3	1	0
913:	1	2	1	0	1	1	0	1
921:	0	1	1	1	1	2	1	0
929:	2	2	0	1	1	0	2	0
937:	2	0	0	1	1	1	2	1
945:	1	2	1	1	1	2	1	0
953:	1	2	0	1	0	0	0	2
961:	1	1	1	1	0	2	2	1
969:	1	1	3	2	2	2	4	0
977:	1	2	0	2	1	2	0	0
985:	2	1	1	2	1	0	0	1
993:	0	1	1	2	0	2	2	4
1001:	1	1	0	1	0	2	1	0
1009:	2	1	2	1	0	1	0	1
1017:	1	0	2	0	1	2	1	1
1025:	0	0	1	1	1	0	1	1
1033:	2	0	1	1	2	1	1	1
1041:	2	1	1	1	1	0	2	0
1049:	1	1	1	0	0	0	1	2
1057:	2	1	0	2	0	2	2	3
1065:	1	0	0	1	0	0	0	2
1073:	0	0	0	0	2	0	1	1
1081:	0	1	1	2	0	0	1	1
1089:	2	1	4	1	0	0	0	1
1097:	0	4	0	1	2	1	0	0
1105:	3	2	0	2	0	1	0	1
1113:	1	2	1	3	0	0	1	1
1121:	2	0	0	1	1	0	2	1
1129:	1	1	0	1	1	1	1	1
1137:	0	0	2	4	2	0	0	0
1145:	1	0	1	1	1	1	1	0
1153:	0	0	0	1	1	1	0	1
1161:	1	0	0	0	0	0	0	0
1169:	0	1	0	0	1	3	0	3
1177:	0	1	0	2	0	1	1	2
1185:	1	0	2	1	2	1	1	1
1193:	0	1	1	1	0	0	1	0
1201:	1	1	0	1	3	1	1	2
1209:	0	2	0	0	0	1	1	1
1217:	3	1	0	0	4	1	0	0
1225:	0	0	0	0	0	0	1	0

1233:	1	1	1	1	0	0	0	1

Sample Title: BLANK

Channel								
1241:	0	2	3	0	1	2	0	0
1249:	1	1	0	1	0	1	1	1
1257:	3	1	0	1	0	0	1	0
1265:	2	0	0	1	1	0	0	0
1273:	0	1	0	1	0	0	0	0
1281:	0	2	0	0	1	1	0	1
1289:	0	0	1	0	0	0	0	0
1297:	0	0	0	2	1	1	0	1
1305:	0	0	0	0	0	0	1	0
1313:	1	2	1	2	1	3	0	1
1321:	1	2	0	0	0	0	1	1
1329:	0	0	0	2	1	0	2	0
1337:	3	0	0	1	0	1	1	0
1345:	1	1	0	0	1	0	0	1
1353:	0	0	1	1	1	0	1	2
1361:	0	0	0	0	0	0	0	0
1369:	1	0	1	1	0	1	0	2
1377:	0	0	0	1	0	0	1	0
1385:	0	0	0	1	1	2	0	0
1393:	1	0	0	0	0	1	1	1
1401:	0	0	0	0	0	0	0	0
1409:	1	1	1	1	0	0	1	0
1417:	1	0	1	0	1	1	0	1
1425:	0	1	1	1	1	2	0	1
1433:	0	0	1	1	0	0	0	1
1441:	2	0	0	1	0	0	0	0
1449:	1	0	0	0	1	0	1	0
1457:	0	0	0	0	0	0	1	0
1465:	0	1	1	1	0	0	1	0
1473:	0	1	0	0	0	1	1	0
1481:	0	1	1	0	0	1	0	1
1489:	0	0	1	0	1	2	1	0
1497:	0	0	0	1	1	0	0	0
1505:	1	1	0	1	0	0	1	1
1513:	0	0	1	1	0	1	0	0
1521:	0	0	0	1	0	1	2	1
1529:	1	0	0	1	0	1	1	1
1537:	3	1	0	1	0	0	1	0
1545:	1	0	0	0	1	0	0	0
1553:	0	0	1	0	0	1	0	1
1561:	0	2	1	1	0	2	0	0
1569:	0	0	0	1	0	0	0	0
1577:	0	0	0	1	0	0	0	1
1585:	1	0	1	1	0	0	0	1
1593:	0	0	0	1	0	1	1	0
1601:	0	0	1	1	1	0	0	0
1609:	1	0	0	0	2	0	0	0
1617:	0	0	0	0	0	1	0	0
1625:	0	1	2	0	0	1	0	1
1633:	1	2	0	0	2	1	1	0
1641:	0	0	1	0	1	0	1	0
1649:	0	0	0	0	0	1	0	0
1657:	0	0	1	3	0	0	2	0

1665:	1	0	1	1	1	0	0	0

Sample Title: BLANK

Channel								
1673:	0	0	1	0	0	0	1	0
1681:	1	0	1	0	0	0	1	1
1689:	0	2	1	0	0	1	1	0
1697:	0	1	0	1	0	0	0	0
1705:	1	0	1	0	0	0	0	0
1713:	2	1	0	1	0	0	0	0
1721:	0	1	0	0	0	0	1	0
1729:	0	0	1	0	0	2	0	0
1737:	0	0	1	0	1	0	0	0
1745:	0	0	2	1	0	0	0	1
1753:	0	0	0	0	0	0	1	1
1761:	0	1	0	1	0	1	0	0
1769:	0	0	0	0	0	0	0	1
1777:	0	2	0	0	0	1	2	1
1785:	0	0	0	1	0	0	0	0
1793:	0	0	1	0	1	0	1	0
1801:	0	0	0	1	1	0	0	0
1809:	1	0	0	0	0	0	0	0
1817:	0	1	1	1	1	0	0	0
1825:	0	0	0	0	0	1	0	0
1833:	1	0	0	0	1	1	0	0
1841:	2	0	0	0	1	1	0	0
1849:	0	0	0	0	0	0	0	0
1857:	1	0	0	0	1	0	1	0
1865:	1	0	1	0	0	0	1	0
1873:	0	0	1	0	0	0	0	0
1881:	2	0	0	0	0	0	0	0
1889:	0	0	0	0	0	0	0	0
1897:	1	1	0	0	0	0	2	0
1905:	0	0	0	0	1	0	0	0
1913:	0	2	0	0	0	0	0	0
1921:	0	1	0	1	1	0	0	0
1929:	1	0	0	1	0	0	1	1
1937:	0	0	0	0	0	1	0	0
1945:	0	0	0	0	0	0	0	0
1953:	0	0	1	0	1	0	1	0
1961:	0	2	0	1	0	0	0	1
1969:	0	1	0	0	2	1	1	1
1977:	0	1	0	0	0	0	0	0
1985:	0	1	0	0	1	1	0	1
1993:	0	0	0	2	0	0	1	1
2001:	3	0	0	0	0	0	0	0
2009:	0	0	1	0	0	0	0	0
2017:	0	0	0	0	1	1	0	0
2025:	0	0	0	0	0	0	0	2
2033:	1	1	0	0	1	0	0	0
2041:	0	0	1	1	1	0	1	0
2049:	0	1	0	1	0	0	0	1
2057:	0	0	0	0	0	0	0	0
2065:	0	0	1	0	1	0	0	0
2073:	0	0	0	0	0	0	0	0
2081:	0	0	1	0	0	0	0	1
2089:	0	0	0	0	0	2	0	0

2097:	0	1	0	1	0	0	0	1

Sample Title: BLANK

Channel								
2105:	1	1	0	0	0	0	0	0
2113:	0	0	0	1	0	0	2	0
2121:	0	0	0	0	0	1	0	0
2129:	0	1	0	0	1	1	0	0
2137:	0	1	0	0	0	0	0	0
2145:	0	0	0	0	0	1	0	0
2153:	1	0	0	0	1	0	0	0
2161:	0	0	0	1	0	0	0	0
2169:	0	1	1	0	0	0	0	0
2177:	2	0	0	1	0	0	1	0
2185:	0	0	0	0	0	0	0	0
2193:	1	0	0	0	0	1	0	0
2201:	1	0	0	0	0	0	1	1
2209:	0	0	1	1	0	0	0	1
2217:	0	0	1	0	0	1	0	0
2225:	0	0	1	0	0	0	0	0
2233:	0	0	0	0	0	0	0	0
2241:	0	1	0	1	0	0	0	0
2249:	1	0	0	1	0	0	0	0
2257:	0	1	0	0	0	1	0	0
2265:	1	0	0	0	1	0	0	0
2273:	0	0	0	1	0	0	1	0
2281:	0	0	1	0	0	0	0	0
2289:	0	0	0	0	0	0	0	0
2297:	0	0	0	0	0	0	0	0
2305:	0	0	0	0	0	0	0	1
2313:	0	0	0	0	0	0	1	1
2321:	0	0	0	1	1	0	0	0
2329:	0	0	0	1	0	0	0	0
2337:	0	0	0	1	0	0	0	0
2345:	0	0	0	0	0	0	0	1
2353:	1	0	0	0	0	0	0	0
2361:	1	0	0	0	1	0	0	1
2369:	1	0	0	0	0	0	0	0
2377:	1	0	0	0	0	0	0	0
2385:	1	0	0	0	0	0	0	0
2393:	0	1	0	0	0	1	0	0
2401:	0	0	0	1	0	0	0	0
2409:	0	0	1	0	0	0	1	0
2417:	0	0	0	0	0	1	0	0
2425:	0	0	0	0	0	0	0	0
2433:	0	1	0	1	0	1	0	0
2441:	0	0	0	0	0	0	0	0
2449:	0	0	0	0	0	0	0	0
2457:	0	0	0	0	1	0	1	0
2465:	0	0	1	0	1	1	0	0
2473:	1	0	2	0	0	0	0	1
2481:	0	0	0	0	1	0	0	0
2489:	1	0	0	0	0	0	1	1
2497:	0	1	0	0	0	0	0	1
2505:	0	0	0	0	0	0	0	0
2513:	0	1	0	0	1	0	1	0
2521:	0	1	0	1	0	0	0	0

2529:	1	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
2537:	0	1	0	0	0	0	0	0
2545:	0	1	1	0	0	0	0	0
2553:	0	0	2	0	0	0	1	0
2561:	0	1	0	0	0	0	1	1
2569:	0	0	0	0	0	0	0	0
2577:	0	0	1	0	0	1	0	0
2585:	0	0	0	0	1	0	0	1
2593:	0	0	0	0	0	0	0	0
2601:	0	1	0	0	1	0	1	0
2609:	1	0	1	1	1	0	0	2
2617:	0	0	0	0	0	0	0	0
2625:	0	0	0	0	0	0	1	0
2633:	0	0	0	1	1	0	0	0
2641:	0	0	1	0	0	0	0	0
2649:	0	0	0	1	0	0	0	0
2657:	0	0	0	1	0	0	0	1
2665:	0	0	0	0	0	0	0	0
2673:	0	1	0	0	1	0	0	0
2681:	0	0	0	1	0	0	0	0
2689:	0	0	0	0	1	0	0	0
2697:	1	0	0	0	1	0	0	0
2705:	1	0	0	0	0	1	1	1
2713:	0	0	0	0	0	0	0	2
2721:	0	0	0	0	0	0	0	0
2729:	0	1	0	1	0	0	0	0
2737:	0	0	0	0	0	0	0	0
2745:	1	0	0	0	0	0	1	1
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	1	0	1
2769:	0	0	0	0	1	0	0	0
2777:	0	2	0	0	1	1	0	0
2785:	0	0	0	0	0	0	0	0
2793:	1	1	0	0	0	0	1	1
2801:	0	0	1	0	0	0	0	0
2809:	0	0	0	1	0	0	1	0
2817:	1	0	0	0	0	1	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	1	1	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	1	1	0	0
2857:	0	1	0	0	1	1	0	0
2865:	0	0	0	1	0	0	0	1
2873:	0	0	0	1	1	0	1	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	1
2897:	0	0	0	0	0	0	0	1
2905:	0	0	0	1	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	1
2929:	0	0	0	0	0	0	1	0
2937:	0	0	0	0	1	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	1	0	0

2961:	0	0	1	0	0	1	0	1

Sample Title: BLANK

Channel								
2969:	0	0	0	0	1	0	1	0
2977:	0	0	0	0	1	0	0	1
2985:	0	0	0	0	1	1	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	0	0	1	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	1	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	1	0	2	0	1	0	0
3073:	0	1	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	1
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	1	0	0	0	1
3105:	0	0	2	0	0	0	1	0
3113:	0	0	0	0	0	0	0	0
3121:	0	1	0	0	0	0	0	0
3129:	0	0	2	0	0	0	0	0
3137:	0	0	0	0	1	0	0	0
3145:	1	1	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	1	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	1	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	1	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	1	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	1	0	1	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	1	0	0
3313:	0	0	0	0	1	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	1	0	1	0	0	0	0
3353:	1	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	1	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	0

3393:	0	0	0	0	0	0	1	0

Sample Title: BLANK

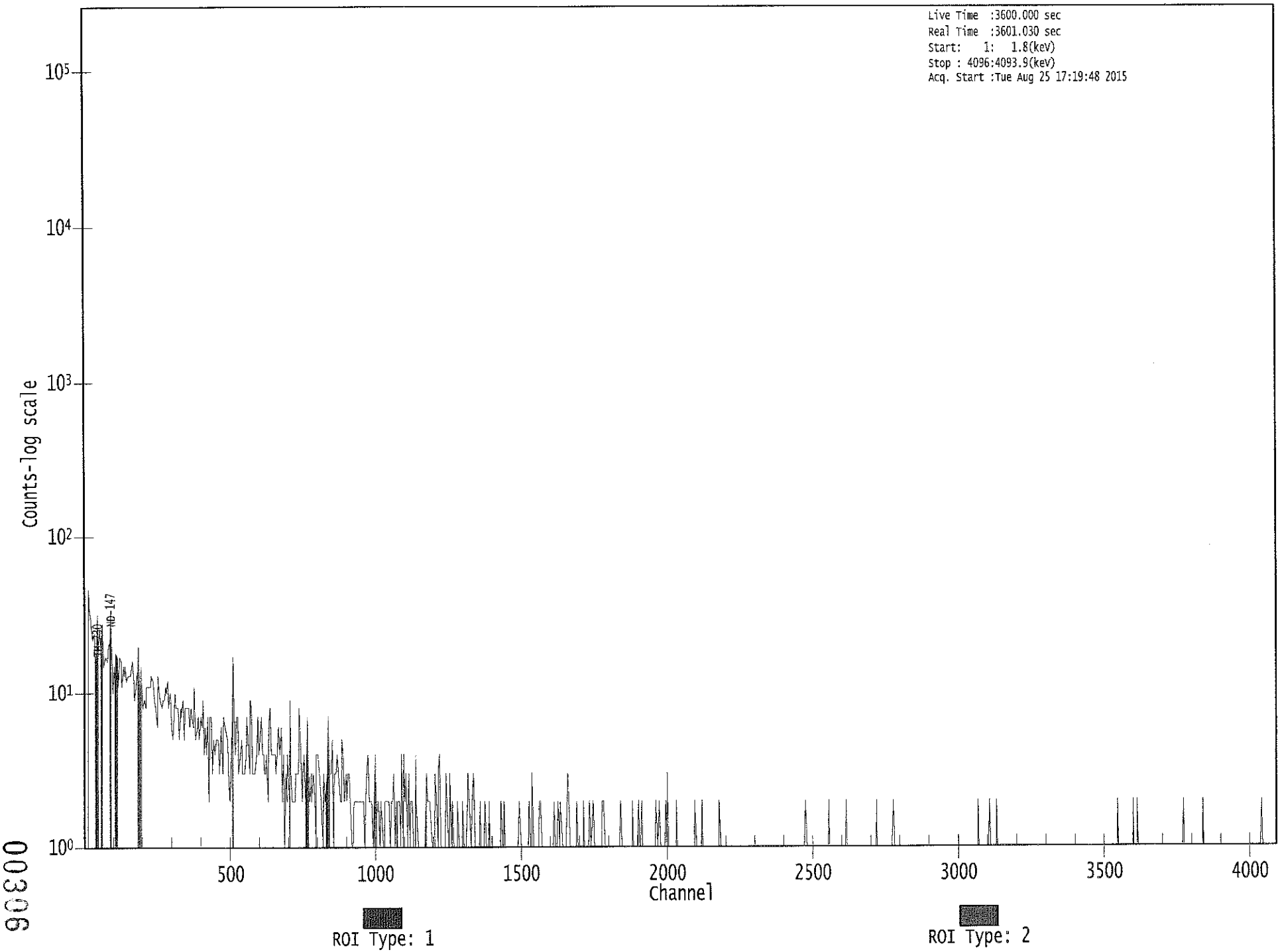
Channel								
3401:	0	0	0	0	0	0	1	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	1	0	0	0	0
3425:	0	0	0	0	0	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	1	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	1	0	0	0	1	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	1	0	0	1	0	0
3497:	0	0	0	1	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	1	0	0	0	0	0	0
3545:	0	2	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	1
3569:	0	0	1	1	1	0	1	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	2
3601:	0	0	0	0	1	0	0	0
3609:	0	0	0	0	2	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	0	0	0	0	1
3649:	0	0	0	0	0	0	0	0
3657:	1	0	0	1	0	0	0	0
3665:	0	1	0	0	0	0	0	0
3673:	0	0	0	0	1	0	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	1	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	1	0
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	1	0	0	0
3737:	1	0	0	0	0	0	0	1
3745:	0	0	0	0	0	1	0	1
3753:	0	0	0	0	0	0	0	0
3761:	1	0	0	0	0	0	0	1
3769:	0	0	0	2	0	0	0	0
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	1	0	0	0	0	0

3825:	0	0	0	0	1	0	0	0

Sample Title: BLANK

Channel								
3833:	0	0	0	0	0	2	0	1
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	1	0	1	0	0	0	0	1
3865:	1	0	1	0	0	1	0	1
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	1	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	1
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	1
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	1	0	1	0	0	1
4033:	0	0	0	0	1	0	0	0
4041:	2	0	0	0	0	0	0	0
4049:	1	0	0	0	1	0	0	1
4057:	1	0	0	0	0	0	0	0
4065:	0	0	1	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	1	0	0	0	1	0	0

0000026417.CNF



003009

KB 8/26/15

Apex-Gamma

Analysis Report for 1508002-03
FEEBRIS1D-8 075-076

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-03
Sample Description	: FEEBRIS1D-8 075-076
Sample Type	: SOIL
Sample Size	: 3.257E+02 grams
Facility	: Countroom
Sample Taken On	: 7/29/2015 10:34:12AM
Acquisition Started	: 8/25/2015 3:24:14PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26402

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 4:24:19PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.33	46.68	0.0000	0.00
2	63.39	63.74	0.0000	0.00
3	67.79	68.13	0.0000	0.00
4	72.79	73.13	0.0000	0.00
5	77.66	78.00	0.0000	0.00
6	87.92	88.26	0.0000	0.00
7	186.18	186.48	0.0000	0.00
8	238.82	239.11	0.0000	0.00
9	242.06	242.35	0.0000	0.00
10	269.91	270.18	0.0000	0.00
11	295.23	295.50	0.0000	0.00
12	338.13	338.38	0.0000	0.00
13	352.03	352.27	0.0000	0.00
14	373.90	374.14	0.0000	0.00
15	388.33	388.57	0.0000	0.00
16	398.84	399.08	0.0000	0.00
17	462.66	462.87	0.0000	0.00
18	510.40	510.60	0.0000	0.00
19	579.92	580.09	0.0000	0.00
20	583.13	583.30	0.0000	0.00
21	609.42	609.58	0.0000	0.00
22	664.80	664.95	0.0000	0.00
23	673.40	673.53	0.0000	0.00
24	768.75	768.86	0.0000	0.00
25	807.74	807.83	0.0000	0.00
26	861.35	861.42	0.0000	0.00
27	911.11	911.17	0.0000	0.00
28	933.87	933.92	0.0000	0.00
29	969.88	969.92	0.0000	0.00
30	1120.46	1120.44	0.0000	0.00
31	1155.40	1155.37	0.0000	0.00
32	1185.96	1185.92	0.0000	0.00
33	1207.92	1207.87	0.0000	0.00
34	1237.78	1237.72	0.0000	0.00
35	1297.90	1297.82	0.0000	0.00
36	1315.41	1315.32	0.0000	0.00
37	1377.11	1376.99	0.0000	0.00
38	1405.12	1405.00	0.0000	0.00
39	1415.13	1415.01	0.0000	0.00
40	1429.22	1429.09	0.0000	0.00
41	1460.90	1460.76	0.0000	0.00
42	1661.19	1660.97	0.0000	0.00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1684.53	1684.30	0.0000	0.00
44	1728.24	1728.00	0.0000	0.00
45	1730.76	1730.52	0.0000	0.00
46	1744.47	1744.22	0.0000	0.00
47	1764.44	1764.19	0.0000	0.00
48	1816.39	1816.12	0.0000	0.00
49	1823.07	1822.80	0.0000	0.00
50	1847.48	1847.20	0.0000	0.00
51	1856.29	1856.00	0.0000	0.00
52	1955.70	1955.38	0.0000	0.00
53	2010.21	2009.86	0.0000	0.00
54	2119.15	2118.76	0.0000	0.00
55	2204.04	2203.62	0.0000	0.00
56	2520.75	2520.20	0.0000	0.00
57	2614.13	2613.55	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.33	43	50	46.68	1.46E+02	81.88	1.03E+03	1.21
	2	63.39	60	66	63.74	2.07E+02	83.67	1.13E+03	1.59
M	3	67.79	67	81	68.13	1.33E+02	37.82	3.58E+02	1.45
m	4	72.79	67	81	73.13	7.13E+01	58.82	7.55E+02	1.46
m	5	77.66	67	81	78.00	6.72E+02	85.28	8.55E+02	1.33
	6	87.92	86	91	88.26	1.99E+02	82.72	1.21E+03	1.44
	7	186.18	183	189	186.48	3.78E+02	72.67	6.85E+02	2.00
M	8	238.82	237	247	239.11	3.10E+02	48.87	3.15E+02	1.41
m	9	242.06	237	247	242.35	4.28E+02	58.59	3.16E+02	1.82
	10	269.91	267	273	270.18	8.50E+01	50.44	4.04E+02	2.06
	11	295.23	291	299	295.50	6.80E+02	77.82	5.13E+02	1.89
	12	338.13	335	340	338.38	6.50E+01	38.21	2.40E+02	1.55
	13	352.03	347	356	352.27	1.18E+03	86.10	3.85E+02	1.66
	14	373.90	372	377	374.14	2.57E+01	30.51	1.67E+02	1.39
	15	388.33	384	392	388.57	5.80E+01	43.76	2.54E+02	5.43
	16	398.84	393	406	399.08	7.59E+01	66.37	4.58E+02	9.23
	17	462.66	459	466	462.87	5.86E+01	33.47	1.47E+02	3.36
	18	510.40	505	516	510.60	1.71E+02	47.58	1.96E+02	2.11
M	19	579.92	578	588	580.09	2.70E+01	18.00	5.01E+01	2.04
m	20	583.13	578	588	583.30	9.62E+01	30.40	8.38E+01	2.16
	21	609.42	604	615	609.58	8.84E+02	75.45	2.68E+02	1.94
	22	664.80	661	671	664.95	3.20E+01	38.66	1.84E+02	2.07
	23	673.40	671	676	673.53	1.72E+01	21.91	7.97E+01	2.64
	24	768.75	765	773	768.86	6.76E+01	33.40	1.29E+02	2.02
	25	807.74	800	816	807.83	6.34E+01	38.67	1.15E+02	9.99
	26	861.35	857	866	861.42	2.69E+01	25.69	7.62E+01	2.77
	27	911.11	908	916	911.17	8.80E+01	30.28	9.00E+01	2.15
	28	933.87	930	939	933.92	3.62E+01	30.30	1.12E+02	2.69
	29	969.88	967	976	969.92	4.73E+01	31.03	9.94E+01	2.20
	30	1120.46	1115	1125	1120.44	1.97E+02	37.49	8.24E+01	1.93
	31	1155.40	1152	1159	1155.37	2.18E+01	23.32	7.65E+01	1.90
	32	1185.96	1177	1195	1185.92	3.41E+01	37.99	1.12E+02	10.13
	33	1207.92	1203	1212	1207.87	2.63E+01	25.77	7.93E+01	1.68
	34	1237.78	1233	1242	1237.72	5.59E+01	31.00	1.06E+02	2.07
	35	1297.90	1294	1303	1297.82	2.47E+01	18.63	3.67E+01	3.62
	36	1315.41	1311	1320	1315.32	1.54E+01	20.35	5.11E+01	3.63
	37	1377.11	1365	1386	1376.99	7.00E+01	41.35	1.10E+02	2.25
M	38	1405.12	1395	1419	1405.00	9.66E+00	15.93	2.50E+01	2.17
m	39	1415.13	1395	1419	1415.01	1.14E+01	17.41	2.28E+01	3.86
	40	1429.22	1425	1434	1429.09	1.70E+01	17.64	3.40E+01	6.04

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1460.90	1456 -	1466	1460.76	2.53E+02	36.52	4.08E+01	2.51
	42	1661.19	1656 -	1665	1660.97	1.40E+01	16.31	3.00E+01	1.74
	43	1684.53	1680 -	1687	1684.30	1.04E+01	9.38	7.29E+00	2.76
M	44	1728.24	1723 -	1733	1728.00	1.96E+01	16.30	2.52E+01	2.29
m	45	1730.76	1723 -	1733	1730.52	1.87E+01	16.85	2.47E+01	2.78
	46	1744.47	1739 -	1751	1744.22	1.98E+01	15.71	2.04E+01	9.32
	47	1764.44	1760 -	1768	1764.19	1.39E+02	26.48	2.13E+01	2.00
	48	1816.39	1813 -	1819	1816.12	9.50E+00	7.50	3.00E+00	3.22
	49	1823.07	1820 -	1825	1822.80	5.43E+00	6.08	3.14E+00	1.82
	50	1847.48	1843 -	1851	1847.20	2.29E+01	10.97	4.12E+00	2.12
	51	1856.29	1853 -	1858	1856.00	6.00E+00	4.90	0.00E+00	1.33
	52	1955.70	1952 -	1958	1955.38	8.00E+00	5.66	0.00E+00	1.66
	53	2010.21	2007 -	2012	2009.86	7.00E+00	5.29	0.00E+00	2.98
	54	2119.15	2114 -	2123	2118.76	1.75E+01	10.25	5.00E+00	1.40
	55	2204.04	2200 -	2207	2203.62	3.50E+01	13.71	8.00E+00	2.18
	56	2520.75	2517 -	2522	2520.20	5.00E+00	4.47	0.00E+00	2.31
	57	2614.13	2609 -	2617	2613.55	4.00E+01	12.65	0.00E+00	1.42

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.33	43 -	50	1.46E+02	81.88	1.03E+03	6.43E+01
	2	63.39	60 -	66	2.07E+02	83.67	1.13E+03	6.46E+01
M	3	67.79	67 -	81	1.33E+02	37.82	3.58E+02	3.11E+01
m	4	72.79	67 -	81	7.13E+01	58.82	7.55E+02	4.52E+01
m	5	77.66	67 -	81	6.72E+02	85.28	8.55E+02	4.81E+01
	6	87.92	86 -	91	1.99E+02	82.72	1.21E+03	6.39E+01
	7	186.18	183 -	189	3.78E+02	72.67	6.85E+02	5.05E+01
M	8	238.82	237 -	247	3.10E+02	48.87	3.15E+02	2.92E+01
m	9	242.06	237 -	247	4.28E+02	58.59	3.16E+02	2.92E+01
	10	269.91	267 -	273	8.50E+01	50.44	4.04E+02	3.86E+01
	11	295.23	291 -	299	6.80E+02	77.82	5.13E+02	4.75E+01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	12	338.13	335 -	340	6.50E+01	38.21	2.40E+02	2.85E+01
	13	352.03	347 -	356	1.18E+03	86.10	3.85E+02	4.27E+01
	14	373.90	372 -	377	2.57E+01	30.51	1.67E+02	2.37E+01
	15	388.33	384 -	392	5.80E+01	43.76	2.54E+02	3.37E+01
	16	398.84	393 -	406	7.59E+01	66.37	4.58E+02	5.26E+01
	17	462.66	459 -	466	5.86E+01	33.47	1.47E+02	2.45E+01
	18	510.40	505 -	516	1.71E+02	47.58	1.96E+02	3.27E+01
M	19	579.92	578 -	588	2.70E+01	18.00	5.01E+01	1.16E+01
m	20	583.13	578 -	588	9.62E+01	30.40	8.38E+01	1.50E+01
	21	609.42	604 -	615	8.84E+02	75.45	2.68E+02	3.82E+01
	22	664.80	661 -	671	3.20E+01	38.66	1.84E+02	3.04E+01
	23	673.40	671 -	676	1.72E+01	21.91	7.97E+01	1.67E+01
	24	768.75	765 -	773	6.76E+01	33.40	1.29E+02	2.39E+01
	25	807.74	800 -	816	6.34E+01	38.67	1.15E+02	2.90E+01
	26	861.35	857 -	866	2.69E+01	25.69	7.62E+01	1.93E+01
	27	911.11	908 -	916	8.80E+01	30.28	9.00E+01	1.95E+01
	28	933.87	930 -	939	3.62E+01	30.30	1.12E+02	2.29E+01
	29	969.88	967 -	976	4.73E+01	31.03	9.94E+01	2.29E+01
	30	1120.46	1115 -	1125	1.97E+02	37.49	8.24E+01	2.04E+01
	31	1155.40	1152 -	1159	2.18E+01	23.32	7.65E+01	1.76E+01
	32	1185.96	1177 -	1195	3.41E+01	37.99	1.12E+02	2.97E+01
	33	1207.92	1203 -	1212	2.63E+01	25.77	7.93E+01	1.94E+01
	34	1237.78	1233 -	1242	5.59E+01	31.00	1.06E+02	2.23E+01
	35	1297.90	1294 -	1303	2.47E+01	18.63	3.67E+01	1.30E+01
	36	1315.41	1311 -	1320	1.54E+01	20.35	5.11E+01	1.54E+01
	37	1377.11	1365 -	1386	7.00E+01	41.35	1.10E+02	1.04E+01
M	38	1405.12	1395 -	1419	9.66E+00	15.93	2.50E+01	8.21E+00
m	39	1415.13	1395 -	1419	1.14E+01	17.41	2.28E+01	7.85E+00
	40	1429.22	1425 -	1434	1.70E+01	17.64	3.40E+01	1.28E+01
	41	1460.90	1456 -	1466	2.53E+02	36.52	4.08E+01	1.48E+01
	42	1661.19	1656 -	1665	1.40E+01	16.31	3.00E+01	1.19E+01
	43	1684.53	1680 -	1687	1.04E+01	9.38	7.29E+00	5.61E+00
M	44	1728.24	1723 -	1733	1.96E+01	16.30	2.52E+01	8.25E+00
m	45	1730.76	1723 -	1733	1.87E+01	16.85	2.47E+01	8.17E+00
	46	1744.47	1739 -	1751	1.98E+01	15.71	2.04E+01	1.06E+01
	47	1764.44	1760 -	1768	1.39E+02	26.48	2.13E+01	9.86E+00
	48	1816.39	1813 -	1819	9.50E+00	7.50	3.00E+00	3.51E+00
	49	1823.07	1820 -	1825	5.43E+00	6.08	3.14E+00	3.21E+00
	50	1847.48	1843 -	1851	2.29E+01	10.97	4.12E+00	4.39E+00
	51	1856.29	1853 -	1858	6.00E+00	4.90	0.00E+00	0.00E+00
	52	1955.70	1952 -	1958	8.00E+00	5.66	0.00E+00	0.00E+00
	53	2010.21	2007 -	2012	7.00E+00	5.29	0.00E+00	0.00E+00
	54	2119.15	2114 -	2123	1.75E+01	10.25	5.00E+00	4.86E+00
	55	2204.04	2200 -	2207	3.50E+01	13.71	8.00E+00	5.70E+00
	56	2520.75	2517 -	2522	5.00E+00	4.47	0.00E+00	0.00E+00
	57	2614.13	2609 -	2617	4.00E+01	12.65	0.00E+00	0.00E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.33	43 -	50	46.68	1.46E+02	81.88	1.03E+03	PB-210
	2	63.39	60 -	66	63.74	2.07E+02	83.67	1.13E+03	TH-234
									TH-230
M	3	67.79	67 -	81	68.13	1.33E+02	37.82	3.58E+02	TA-182
									TI-44
									TH-230
m	4	72.79	67 -	81	73.13	7.13E+01	58.82	7.55E+02	PM-145
m	5	77.66	67 -	81	78.00	6.72E+02	85.28	8.55E+02	TI-44
	6	87.92	86 -	91	88.26	1.99E+02	82.72	1.21E+03	CD-109
									SN-126
									LU-176
	7	186.18	183 -	189	186.48	3.78E+02	72.67	6.85E+02	RA-226
M	8	238.82	237 -	247	239.11	3.10E+02	48.87	3.15E+02	PB-212
m	9	242.06	237 -	247	242.35	4.28E+02	58.59	3.16E+02	.....
	10	269.91	267 -	273	270.18	8.50E+01	50.44	4.04E+02	.....
	11	295.23	291 -	299	295.50	6.80E+02	77.82	5.13E+02	PB-214
	12	338.13	335 -	340	338.38	6.50E+01	38.21	2.40E+02	AC-228
	13	352.03	347 -	356	352.27	1.18E+03	86.10	3.85E+02	PB-214
	14	373.90	372 -	377	374.14	2.57E+01	30.51	1.67E+02	.....
	15	388.33	384 -	392	388.57	5.80E+01	43.76	2.54E+02	.....
	16	398.84	393 -	406	399.08	7.59E+01	66.37	4.58E+02	.....
	17	462.66	459 -	466	462.87	5.86E+01	33.47	1.47E+02	SB-125
	18	510.40	505 -	516	510.60	1.71E+02	47.58	1.96E+02	.....
M	19	579.92	578 -	588	580.09	2.70E+01	18.00	5.01E+01	.....
m	20	583.13	578 -	588	583.30	9.62E+01	30.40	8.38E+01	TL-208
	21	609.42	604 -	615	609.58	8.84E+02	75.45	2.68E+02	BI-214
	22	664.80	661 -	671	664.95	3.20E+01	38.66	1.84E+02	CE-143
	23	673.40	671 -	676	673.53	1.72E+01	21.91	7.97E+01	.....
	24	768.75	765 -	773	768.86	6.76E+01	33.40	1.29E+02	.....
	25	807.74	800 -	816	807.83	6.34E+01	38.67	1.15E+02	.....

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	26	861.35	857 -	866	861.42	2.69E+01	25.69	7.62E+01	TL-208
	27	911.11	908 -	916	911.17	8.80E+01	30.28	9.00E+01	AC-228
	28	933.87	930 -	939	933.92	3.62E+01	30.30	1.12E+02	.....
	29	969.88	967 -	976	969.92	4.73E+01	31.03	9.94E+01	AC-228
	30	1120.46	1115 -	1125	1120.44	1.97E+02	37.49	8.24E+01	SC-46 BI-214 TA-182
	31	1155.40	1152 -	1159	1155.37	2.18E+01	23.32	7.65E+01	.....
	32	1185.96	1177 -	1195	1185.92	3.41E+01	37.99	1.12E+02	.....
	33	1207.92	1203 -	1212	1207.87	2.63E+01	25.77	7.93E+01	.....
	34	1237.78	1233 -	1242	1237.72	5.59E+01	31.00	1.06E+02	CO-56
	35	1297.90	1294 -	1303	1297.82	2.47E+01	18.63	3.67E+01	.....
	36	1315.41	1311 -	1320	1315.32	1.54E+01	20.35	5.11E+01	.....
	37	1377.11	1365 -	1386	1376.99	7.00E+01	41.35	1.10E+02	.....
M	38	1405.12	1395 -	1419	1405.00	9.66E+00	15.93	2.50E+01	.....
m	39	1415.13	1395 -	1419	1415.01	1.14E+01	17.41	2.28E+01	.....
	40	1429.22	1425 -	1434	1429.09	1.70E+01	17.64	3.40E+01	.....
	41	1460.90	1456 -	1466	1460.76	2.53E+02	36.52	4.08E+01	K-40
	42	1661.19	1656 -	1665	1660.97	1.40E+01	16.31	3.00E+01	.....
	43	1684.53	1680 -	1687	1684.30	1.04E+01	9.38	7.29E+00	.....
M	44	1728.24	1723 -	1733	1728.00	1.96E+01	16.30	2.52E+01	.....
m	45	1730.76	1723 -	1733	1730.52	1.87E+01	16.85	2.47E+01	.....
	46	1744.47	1739 -	1751	1744.22	1.98E+01	15.71	2.04E+01	.....
	47	1764.44	1760 -	1768	1764.19	1.39E+02	26.48	2.13E+01	BI-214
	48	1816.39	1813 -	1819	1816.12	9.50E+00	7.50	3.00E+00	.....
	49	1823.07	1820 -	1825	1822.80	5.43E+00	6.08	3.14E+00	.....
	50	1847.48	1843 -	1851	1847.20	2.29E+01	10.97	4.12E+00	.....
	51	1856.29	1853 -	1858	1856.00	6.00E+00	4.90	0.00E+00	.....
	52	1955.70	1952 -	1958	1955.38	8.00E+00	5.66	0.00E+00	.....
	53	2010.21	2007 -	2012	2009.86	7.00E+00	5.29	0.00E+00	.....
	54	2119.15	2114 -	2123	2118.76	1.75E+01	10.25	5.00E+00	.....
	55	2204.04	2200 -	2207	2203.62	3.50E+01	13.71	8.00E+00	BI-214
	56	2520.75	2517 -	2522	2520.20	5.00E+00	4.47	0.00E+00	.....
	57	2614.13	2609 -	2617	2613.55	4.00E+01	12.65	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.33	1.46E+02	81.88	1.67E-02	1.78E-03
	2	63.39	2.07E+02	83.67	2.49E-02	1.91E-03
M	3	67.79	1.33E+02	37.82	2.61E-02	2.06E-03
m	4	72.79	7.13E+01	58.82	2.71E-02	2.23E-03
m	5	77.66	6.72E+02	85.28	2.78E-02	2.39E-03
	6	87.92	1.99E+02	82.72	2.85E-02	2.74E-03
	7	186.18	3.78E+02	72.67	2.24E-02	2.03E-03
M	8	238.82	3.10E+02	48.87	1.92E-02	1.64E-03
m	9	242.06	4.28E+02	58.59	1.90E-02	1.61E-03
	10	269.91	8.50E+01	50.44	1.77E-02	1.41E-03
	11	295.23	6.80E+02	77.82	1.67E-02	1.31E-03
	12	338.13	6.50E+01	38.21	1.52E-02	1.22E-03
	13	352.03	1.18E+03	86.10	1.48E-02	1.19E-03
	14	373.90	2.57E+01	30.51	1.41E-02	1.15E-03
	15	388.33	5.80E+01	43.76	1.38E-02	1.12E-03
	16	398.84	7.59E+01	66.37	1.35E-02	1.11E-03
	17	462.66	5.86E+01	33.47	1.21E-02	1.04E-03
	18	510.40	1.71E+02	47.58	1.13E-02	9.91E-04
M	19	579.92	2.70E+01	18.00	1.02E-02	9.19E-04
m	20	583.13	9.62E+01	30.40	1.02E-02	9.16E-04
	21	609.42	8.84E+02	75.45	9.83E-03	8.88E-04
	22	664.80	3.20E+01	38.66	9.18E-03	8.31E-04
	23	673.40	1.72E+01	21.91	9.09E-03	8.24E-04
	24	768.75	6.76E+01	33.40	8.19E-03	7.38E-04
	25	807.74	6.34E+01	38.67	7.87E-03	7.03E-04
	26	861.35	2.69E+01	25.69	7.48E-03	6.55E-04
	27	911.11	8.80E+01	30.28	7.15E-03	6.16E-04
	28	933.87	3.62E+01	30.30	7.01E-03	6.04E-04
	29	969.88	4.73E+01	31.03	6.80E-03	5.85E-04
	30	1120.46	1.97E+02	37.49	6.07E-03	5.07E-04
	31	1155.40	2.18E+01	23.32	5.92E-03	4.88E-04
	32	1185.96	3.41E+01	37.99	5.80E-03	4.77E-04
	33	1207.92	2.63E+01	25.77	5.72E-03	4.73E-04
	34	1237.78	5.59E+01	31.00	5.62E-03	4.68E-04
	35	1297.90	2.47E+01	18.63	5.42E-03	4.57E-04
	36	1315.41	1.54E+01	20.35	5.36E-03	4.54E-04
	37	1377.11	7.00E+01	41.35	5.19E-03	4.40E-04
M	38	1405.12	9.66E+00	15.93	5.11E-03	4.33E-04
m	39	1415.13	1.14E+01	17.41	5.08E-03	4.31E-04
	40	1429.22	1.70E+01	17.64	5.05E-03	4.27E-04
	41	1460.90	2.53E+02	36.52	4.97E-03	4.19E-04
	42	1661.19	1.40E+01	16.31	4.56E-03	3.69E-04
	43	1684.53	1.04E+01	9.38	4.52E-03	3.64E-04
M	44	1728.24	1.96E+01	16.30	4.45E-03	3.53E-04
m	45	1730.76	1.87E+01	16.85	4.45E-03	3.52E-04
	46	1744.47	1.98E+01	15.71	4.43E-03	3.49E-04
	47	1764.44	1.39E+02	26.48	4.40E-03	3.44E-04
	48	1816.39	9.50E+00	7.50	4.32E-03	3.31E-04
	49	1823.07	5.43E+00	6.08	4.31E-03	3.29E-04
	50	1847.48	2.29E+01	10.97	4.28E-03	3.26E-04
	51	1856.29	6.00E+00	4.90	4.27E-03	3.26E-04
	52	1955.70	8.00E+00	5.66	4.16E-03	3.26E-04
	53	2010.21	7.00E+00	5.29	4.10E-03	3.26E-04

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
54	2119.15	1.75E+01	10.25	4.01E-03	3.26E-04
55	2204.04	3.50E+01	13.71	3.95E-03	3.26E-04
56	2520.75	5.00E+00	4.47	3.81E-03	3.26E-04
57	2614.13	4.00E+01	12.65	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.33	1.46E+02	81.88	4.02E+01	8.43E+00	1.06E+02	8.23E+01
	2	63.39	2.07E+02	83.67	9.99E+01	2.42E+01	1.07E+02	8.71E+01
M	3	67.79	1.33E+02	37.82			1.33E+02	3.78E+01
m	4	72.79	7.13E+01	58.82			7.13E+01	5.88E+01
m	5	77.66	6.72E+02	85.28	1.60E+01	8.83E+00	6.56E+02	8.57E+01
	6	87.92	1.99E+02	82.72			1.99E+02	8.27E+01
	7	186.18	3.78E+02	72.67	6.47E+01	7.53E+00	3.13E+02	7.31E+01
M	8	238.82	3.10E+02	48.87	1.73E+01	6.30E+00	2.93E+02	4.93E+01
m	9	242.06	4.28E+02	58.59			4.28E+02	5.86E+01
	10	269.91	8.50E+01	50.44			8.50E+01	5.04E+01
	11	295.23	6.80E+02	77.82	0.00E+00	0.00E+00	6.80E+02	7.78E+01
	12	338.13	6.50E+01	38.21			6.50E+01	3.82E+01
	13	352.03	1.18E+03	86.10	9.78E+00	4.40E+00	1.17E+03	8.62E+01
	14	373.90	2.57E+01	30.51			2.57E+01	3.05E+01
	15	388.33	5.80E+01	43.76			5.80E+01	4.38E+01
	16	398.84	7.59E+01	66.37			7.59E+01	6.64E+01
	17	462.66	5.86E+01	33.47			5.86E+01	3.35E+01
	18	510.40	1.71E+02	47.58	7.82E+01	5.46E+00	9.27E+01	4.79E+01
M	19	579.92	2.70E+01	18.00			2.70E+01	1.80E+01
m	20	583.13	9.62E+01	30.40	4.53E+00	3.34E+00	9.16E+01	3.06E+01
	21	609.42	8.84E+02	75.45	8.81E+00	3.15E+00	8.75E+02	7.55E+01
	22	664.80	3.20E+01	38.66			3.20E+01	3.87E+01
	23	673.40	1.72E+01	21.91			1.72E+01	2.19E+01
	24	768.75	6.76E+01	33.40			6.76E+01	3.34E+01
	25	807.74	6.34E+01	38.67			6.34E+01	3.87E+01
	26	861.35	2.69E+01	25.69			2.69E+01	2.57E+01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	27	911.11	8.80E+01	30.28	4.29E+00	2.56E+00	8.37E+01	3.04E+01
	28	933.87	3.62E+01	30.30			3.62E+01	3.03E+01
	29	969.88	4.73E+01	31.03			4.73E+01	3.10E+01
	30	1120.46	1.97E+02	37.49			1.97E+02	3.75E+01
	31	1155.40	2.18E+01	23.32			2.18E+01	2.33E+01
	32	1185.96	3.41E+01	37.99			3.41E+01	3.80E+01
	33	1207.92	2.63E+01	25.77			2.63E+01	2.58E+01
	34	1237.78	5.59E+01	31.00			5.59E+01	3.10E+01
	35	1297.90	2.47E+01	18.63			2.47E+01	1.86E+01
	36	1315.41	1.54E+01	20.35			1.54E+01	2.03E+01
	37	1377.11	7.00E+01	41.35			7.00E+01	4.14E+01
M	38	1405.12	9.66E+00	15.93			9.66E+00	1.59E+01
m	39	1415.13	1.14E+01	17.41			1.14E+01	1.74E+01
	40	1429.22	1.70E+01	17.64			1.70E+01	1.76E+01
	41	1460.90	2.53E+02	36.52	5.85E+00	2.19E+00	2.47E+02	3.66E+01
	42	1661.19	1.40E+01	16.31			1.40E+01	1.63E+01
	43	1684.53	1.04E+01	9.38			1.04E+01	9.38E+00
M	44	1728.24	1.96E+01	16.30			1.96E+01	1.63E+01
m	45	1730.76	1.87E+01	16.85			1.87E+01	1.69E+01
	46	1744.47	1.98E+01	15.71			1.98E+01	1.57E+01
	47	1764.44	1.39E+02	26.48			1.39E+02	2.65E+01
	48	1816.39	9.50E+00	7.50			9.50E+00	7.50E+00
	49	1823.07	5.43E+00	6.08			5.43E+00	6.08E+00
	50	1847.48	2.29E+01	10.97			2.29E+01	1.10E+01
	51	1856.29	6.00E+00	4.90			6.00E+00	4.90E+00
	52	1955.70	8.00E+00	5.66			8.00E+00	5.66E+00
	53	2010.21	7.00E+00	5.29			7.00E+00	5.29E+00
	54	2119.15	1.75E+01	10.25			1.75E+01	1.02E+01
	55	2204.04	3.50E+01	13.71	1.36E-01	1.12E+00	3.49E+01	1.38E+01
	56	2520.75	5.00E+00	4.47			5.00E+00	4.47E+00
	57	2614.13	4.00E+01	12.65	5.15E+00	1.50E+00	3.49E+01	1.27E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.33	1.46E+02	81.88	4.02E+01	8.43E+00	1.06E+02	8.23E+01
	2	63.39	2.07E+02	83.67	9.99E+01	2.42E+01	1.07E+02	8.71E+01
M	3	67.79	1.33E+02	37.82			1.33E+02	3.78E+01
m	4	72.79	7.13E+01	58.82			7.13E+01	5.88E+01
m	5	77.66	6.72E+02	85.28	1.60E+01	8.83E+00	6.56E+02	8.57E+01
	6	87.92	1.99E+02	82.72			1.99E+02	8.27E+01
	7	186.18	3.78E+02	72.67	6.47E+01	7.53E+00	3.13E+02	7.31E+01
M	8	238.82	3.10E+02	48.87	1.73E+01	6.30E+00	2.93E+02	4.93E+01
m	9	242.06	4.28E+02	58.59			4.28E+02	5.86E+01
	10	269.91	8.50E+01	50.44			8.50E+01	5.04E+01
	11	295.23	6.80E+02	77.82	0.00E+00	0.00E+00	6.80E+02	7.78E+01
	12	338.13	6.50E+01	38.21			6.50E+01	3.82E+01
	13	352.03	1.18E+03	86.10	9.78E+00	4.40E+00	1.17E+03	8.62E+01
	14	373.90	2.57E+01	30.51			2.57E+01	3.05E+01
	15	388.33	5.80E+01	43.76			5.80E+01	4.38E+01
	16	398.84	7.59E+01	66.37			7.59E+01	6.64E+01
	17	462.66	5.86E+01	33.47			5.86E+01	3.35E+01
	18	510.40	1.71E+02	47.58	7.82E+01	5.46E+00	9.27E+01	4.79E+01
M	19	579.92	2.70E+01	18.00			2.70E+01	1.80E+01
m	20	583.13	9.62E+01	30.40	4.53E+00	3.34E+00	9.16E+01	3.06E+01
	21	609.42	8.84E+02	75.45	8.81E+00	3.15E+00	8.75E+02	7.55E+01
	22	664.80	3.20E+01	38.66			3.20E+01	3.87E+01
	23	673.40	1.72E+01	21.91			1.72E+01	2.19E+01
	24	768.75	6.76E+01	33.40			6.76E+01	3.34E+01
	25	807.74	6.34E+01	38.67			6.34E+01	3.87E+01
	26	861.35	2.69E+01	25.69			2.69E+01	2.57E+01
	27	911.11	8.80E+01	30.28	4.29E+00	2.56E+00	8.37E+01	3.04E+01
	28	933.87	3.62E+01	30.30			3.62E+01	3.03E+01
	29	969.88	4.73E+01	31.03			4.73E+01	3.10E+01
	30	1120.46	1.97E+02	37.49			1.97E+02	3.75E+01
	31	1155.40	2.18E+01	23.32			2.18E+01	2.33E+01
	32	1185.96	3.41E+01	37.99			3.41E+01	3.80E+01
	33	1207.92	2.63E+01	25.77			2.63E+01	2.58E+01
	34	1237.78	5.59E+01	31.00			5.59E+01	3.10E+01
	35	1297.90	2.47E+01	18.63			2.47E+01	1.86E+01
	36	1315.41	1.54E+01	20.35			1.54E+01	2.03E+01
	37	1377.11	7.00E+01	41.35			7.00E+01	4.14E+01
M	38	1405.12	9.66E+00	15.93			9.66E+00	1.59E+01
m	39	1415.13	1.14E+01	17.41			1.14E+01	1.74E+01
	40	1429.22	1.70E+01	17.64			1.70E+01	1.76E+01
	41	1460.90	2.53E+02	36.52	5.85E+00	2.19E+00	2.47E+02	3.66E+01
	42	1661.19	1.40E+01	16.31			1.40E+01	1.63E+01
	43	1684.53	1.04E+01	9.38			1.04E+01	9.38E+00
M	44	1728.24	1.96E+01	16.30			1.96E+01	1.63E+01
m	45	1730.76	1.87E+01	16.85			1.87E+01	1.69E+01
	46	1744.47	1.98E+01	15.71			1.98E+01	1.57E+01
	47	1764.44	1.39E+02	26.48			1.39E+02	2.65E+01
	48	1816.39	9.50E+00	7.50			9.50E+00	7.50E+00
	49	1823.07	5.43E+00	6.08			5.43E+00	6.08E+00
	50	1847.48	2.29E+01	10.97			2.29E+01	1.10E+01
	51	1856.29	6.00E+00	4.90			6.00E+00	4.90E+00
	52	1955.70	8.00E+00	5.66			8.00E+00	5.66E+00
	53	2010.21	7.00E+00	5.29			7.00E+00	5.29E+00
	54	2119.15	1.75E+01	10.25			1.75E+01	1.02E+01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
55	2204.04	3.50E+01	13.71	1.36E-01	1.12E+00	3.49E+01	1.38E+01
56	2520.75	5.00E+00	4.47			5.00E+00	4.47E+00
57	2614.13	4.00E+01	12.65	5.15E+00	1.50E+00	3.49E+01	1.27E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.999	1460.81	*	10.67	1.07E+01	1.84E+00
TI-44	0.963	67.88	*	94.40	1.24E-01	3.67E-02
		78.34	*	96.00	5.66E-01	8.86E-02
CD-109	0.998	88.03	*	3.72	4.51E+00	1.94E+00
SN-126	0.980	87.57	*	37.00	4.36E-01	1.86E-01
TL-208	0.968	583.14	*	30.22	6.87E-01	2.38E-01
		860.37	*	4.48	1.85E+00	1.78E+00
		2614.66	*	35.85	5.91E-01	2.22E-01
PB-210	0.995	46.50	*	4.25	3.44E+00	2.71E+00
PB-212	0.889	238.63	*	44.60	7.87E-01	1.49E-01
		300.09		3.41		
BI-214	0.998	609.31	*	46.30	4.43E+00	5.54E-01
		1120.29	*	15.10	4.95E+00	1.03E+00
		1764.49	*	15.80	4.62E+00	9.50E-01
		2204.22	*	4.98	4.09E+00	1.65E+00
PB-214	0.999	295.21	*	19.19	4.90E+00	6.79E-01
		351.92	*	37.19	4.91E+00	5.37E-01
RA-226	1.000	186.21	*	3.28	9.83E+00	1.81E+01
AC-228	0.971	338.32	*	11.40	8.65E-01	5.13E-01
		911.07	*	27.70	9.74E-01	3.63E-01
		969.11	*	16.60	9.66E-01	6.39E-01
TH-234	0.998	63.29	*	3.80	2.60E+00	2.13E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:24:19PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	72.79	1.98186E-02	41.22	Tol.	PM-145
m	9	242.06	1.18855E-01	6.85		
	10	269.91	2.35976E-02	29.69		
	14	373.90	7.12793E-03	59.45		
	15	388.33	1.61074E-02	37.73		
	16	398.84	2.10865E-02	43.72	Sum	
	17	462.66	1.62689E-02	28.57		
	18	510.40	2.57383E-02	25.84		
M	19	579.92	7.50294E-03	33.32		
	22	664.80	8.87657E-03	60.48	Tol.	CE-143
	23	673.40	4.76608E-03	63.84	Sum	
	24	768.75	1.87879E-02	24.69	Sum	
	25	807.74	1.76182E-02	30.49		
	28	933.87	1.00483E-02	41.88		
	31	1155.40	6.04167E-03	53.62	Sum	
	32	1185.96	9.46296E-03	55.75		
	33	1207.92	7.31481E-03	48.93	Sum	
	34	1237.78	1.55415E-02	27.70		
	35	1297.90	6.85077E-03	37.77		
	36	1315.41	4.28862E-03	65.89		
	37	1377.11	1.94444E-02	29.54		
M	38	1405.12	2.68437E-03	82.42		
m	39	1415.13	3.16369E-03	76.42	Sum	
	40	1429.22	4.72222E-03	51.87		
	42	1661.19	3.88889E-03	58.25		
	43	1684.53	2.87698E-03	45.29		
M	44	1728.24	5.43624E-03	41.65		
m	45	1730.76	5.19297E-03	45.07	Sum	
	46	1744.47	5.50000E-03	39.67		
	48	1816.39	2.63889E-03	39.47		
	49	1823.07	1.50794E-03	56.03	Sum	
	50	1847.48	6.37222E-03	23.90		
	51	1856.29	1.66667E-03	40.82		
	52	1955.70	2.22222E-03	35.36		

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
53	2010.21	1.94444E-03	37.80		
54	2119.15	4.86111E-03	29.28		
56	2520.75	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.07E+01	1.84E+00
TI-44	0.96	67.88	*	94.40	1.24E-01	3.67E-02
		78.34	*	96.00	5.66E-01	8.86E-02
CD-109	0.99	88.03	*	3.72	4.51E+00	1.94E+00
SN-126	0.98	87.57	*	37.00	4.36E-01	1.86E-01
TL-208	0.96	583.14	*	30.22	6.87E-01	2.38E-01
		860.37	*	4.48	1.85E+00	1.78E+00
		2614.66	*	35.85	5.91E-01	2.22E-01
PB-210	0.99	46.50	*	4.25	3.44E+00	2.71E+00
PB-212	0.88	238.63	*	44.60	7.87E-01	1.49E-01
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	4.43E+00	5.54E-01
		1120.29	*	15.10	4.95E+00	1.03E+00
		1764.49	*	15.80	4.62E+00	9.50E-01
		2204.22	*	4.98	4.09E+00	1.65E+00
PB-214	0.99	295.21	*	19.19	4.90E+00	6.79E-01
		351.92	*	37.19	4.91E+00	5.37E-01
RA-226	1.00	186.21	*	3.28	9.83E+00	1.81E+01
AC-228	0.97	338.32	*	11.40	8.65E-01	5.13E-01
		911.07	*	27.70	9.74E-01	3.63E-01
		969.11	*	16.60	9.66E-01	6.39E-01
TH-234	0.99	63.29	*	3.80	2.60E+00	2.13E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.999	1.07E+01	1.84E+00	
	TI-44	0.963	1.89E-01	3.39E-02	
?	CD-109	0.998	4.51E+00	1.94E+00	
?	SN-126	0.980	4.36E-01	1.86E-01	
X	TA-182	0.481			
	TL-208	0.968	6.46E-01	1.61E-01	
	PB-210	0.995	3.44E+00	2.71E+00	
	PB-212	0.889	7.87E-01	1.49E-01	
	BI-214	0.998	4.54E+00	4.20E-01	
	PB-214	0.999	4.91E+00	4.21E-01	
	RA-226	1.000	9.83E+00	1.81E+01	
	AC-228	0.971	9.43E-01	2.69E-01	
	TH-234	0.998	2.60E+00	2.13E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:24:19PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	72.79	1.98186E-02	41.22	Tol.	PM-145
m	9	242.06	1.18855E-01	6.85		
	10	269.91	2.35976E-02	29.69		
	14	373.90	7.12793E-03	59.45		
	15	388.33	1.61074E-02	37.73		
	16	398.84	2.10865E-02	43.72	Sum	
	17	462.66	1.62689E-02	28.57		
	18	510.40	2.57383E-02	25.84		
M	19	579.92	7.50294E-03	33.32		
	22	664.80	8.87657E-03	60.48	Tol.	CE-143
	23	673.40	4.76608E-03	63.84	Sum	
	24	768.75	1.87879E-02	24.69	Sum	
	25	807.74	1.76182E-02	30.49		
	28	933.87	1.00483E-02	41.88		
	31	1155.40	6.04167E-03	53.62	Sum	
	32	1185.96	9.46296E-03	55.75		
	33	1207.92	7.31481E-03	48.93	Sum	
	34	1237.78	1.55415E-02	27.70		
	35	1297.90	6.85077E-03	37.77		
	36	1315.41	4.28862E-03	65.89		
	37	1377.11	1.94444E-02	29.54		
M	38	1405.12	2.68437E-03	82.42		
m	39	1415.13	3.16369E-03	76.42	Sum	
	40	1429.22	4.72222E-03	51.87		
	42	1661.19	3.88889E-03	58.25		
	43	1684.53	2.87698E-03	45.29		
M	44	1728.24	5.43624E-03	41.65		
m	45	1730.76	5.19297E-03	45.07	Sum	
	46	1744.47	5.50000E-03	39.67		
	48	1816.39	2.63889E-03	39.47		
	49	1823.07	1.50794E-03	56.03	Sum	
	50	1847.48	6.37222E-03	23.90		
	51	1856.29	1.66667E-03	40.82		
	52	1955.70	2.22222E-03	35.36		
	53	2010.21	1.94444E-03	37.80		

Analysis Report for 1508002-03

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
54	2119.15	4.86111E-03	29.28		
56	2520.75	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-3.19E-01	1.17E+00	1.17E+00
+	NA-22	1274.54		99.94	3.12E-02	1.07E-01	1.07E-01
+	NA-24	1368.53		99.99	-5.11E+11	5.80E+11	1.43E+12
		2754.09		99.86	-1.58E+11		5.80E+11
+	AL-26	1808.65		99.76	1.09E-02	9.67E-02	9.67E-02
+	K-40	1460.81	*	10.67	1.07E+01	1.46E+00	1.46E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88	*	94.40	1.24E-01	2.25E-01	2.37E-01
		78.34	*	96.00	5.66E-01		2.25E-01
+	SC-46	889.25		99.98	2.90E-02	1.40E-01	1.40E-01
		1120.51		99.99	8.95E-01		3.41E-01
+	V-48	983.52		99.98	2.75E-02	3.38E-01	3.38E-01
		1312.10		97.50	-1.29E-02		3.59E-01
+	CR-51	320.08		9.83	8.63E-02	1.62E+00	1.62E+00
+	MN-54	834.83		99.97	1.40E-02	1.24E-01	1.24E-01
+	CO-56	846.75		99.96	5.70E-02	1.45E-01	1.45E-01
		1037.75		14.03	4.09E-01		1.11E+00
		1238.25		67.00	4.23E-01		3.72E-01
		1771.40		15.51	-1.55E-01		5.64E-01
		2598.48		16.90	-2.28E-01		3.36E-01
+	CO-57	122.06		85.51	-2.17E-03	8.96E-02	8.96E-02
		136.48		10.60	3.80E-02		7.60E-01
+	CO-58	810.76		99.40	-8.95E-02	1.24E-01	1.24E-01
+	FE-59	1099.22		56.50	-6.21E-02	2.76E-01	2.76E-01
		1291.56		43.20	1.08E-01		3.82E-01
+	CO-60	1173.22		100.00	7.06E-03	9.34E-02	1.10E-01
		1332.49		100.00	-3.64E-02		9.34E-02

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	ZN-65	1115.52		50.75	-1.44E-02	2.71E-01	2.71E-01
+	GA-67	93.31		35.70	1.37E+02	8.41E+01	8.41E+01
		208.95		2.24	2.45E+02		1.23E+03
		300.22		16.00	6.33E+01		1.75E+02
+	SE-75	121.11		16.70	1.53E-01	1.47E-01	5.00E-01
		136.00		59.20	2.11E-03		1.47E-01
		264.65		59.80	8.44E-03		1.48E-01
		279.53		25.20	3.71E-02		3.60E-01
		400.65		11.40	-7.54E-02		9.14E-01
+	RB-82	776.52		13.00	9.01E-02	1.66E+00	1.66E+00
+	RB-83	520.41		46.00	3.63E-02	2.23E-01	2.23E-01
		529.64		30.30	1.19E-01		4.01E-01
		552.65		16.40	-5.54E-01		6.74E-01
+	KR-85	513.99		0.43	4.15E+01	2.97E+01	2.97E+01
+	SR-85	513.99		99.27	2.41E-01	1.73E-01	1.73E-01
+	Y-88	898.02		93.40	-1.47E-03	1.17E-01	1.41E-01
		1836.01		99.38	2.28E-02		1.17E-01
+	NB-93M	16.57		9.43	-1.18E+02	9.81E+01	9.81E+01
+	NB-94	702.63		100.00	-1.50E-02	9.53E-02	1.07E-01
		871.10		100.00	2.81E-03		9.53E-02
+	NB-95	765.79		99.81	2.21E-02	2.49E-01	2.49E-01
+	NB-95M	235.69		25.00	-1.45E+01	6.57E+01	6.57E+01
+	ZR-95	724.18		43.70	-2.71E-01	2.55E-01	3.25E-01
		756.72		55.30	3.13E-02		2.55E-01
+	MO-99	181.06		6.20	1.64E+02	7.24E+02	1.22E+03
		739.58		12.80	6.08E+01		7.24E+02
		778.00		4.50	9.55E+02		2.20E+03
+	RU-103	497.08		89.00	-6.18E-02	1.58E-01	1.58E-01
+	RU-106	621.84		9.80	-3.83E-01	9.60E-01	9.60E-01
+	AG-108M	433.93		89.90	-7.14E-03	1.10E-01	1.10E-01
		614.37		90.40	2.00E-02		1.29E-01
		722.95		90.50	-1.60E-01		1.15E-01
+	CD-109	88.03	*	3.72	4.51E+00	2.96E+00	2.96E+00
+	AG-110M	657.75		93.14	-8.38E-03	1.08E-01	1.08E-01
		677.61		10.53	4.71E-01		1.03E+00
		706.67		16.46	-3.62E-01		6.84E-01
		763.93		21.98	-2.06E-02		5.03E-01
		884.67		71.63	-2.63E-02		1.47E-01
		1384.27		23.94	-1.88E-01		5.31E-01
+	CD-113M	263.70		0.02	-2.01E+01	3.30E+02	3.30E+02
+	SN-113	255.12		1.93	3.46E-02	1.38E-01	4.55E+00
		391.69		64.90	-1.62E-01		1.38E-01
+	TE123M	159.00		84.10	-2.21E-02	1.08E-01	1.08E-01
+	SB-124	602.71		97.87	2.24E-02	1.44E-01	1.44E-01
		645.85		7.26	-1.72E-01		1.72E+00
		722.78		11.10	-1.79E+00		1.28E+00
		1691.02		49.00	-4.76E-03		2.69E-01
+	I-125	35.49		6.49	1.22E+00	4.36E+00	4.36E+00

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-125	176.33		6.89	-4.60E-01	3.43E-01	1.12E+00
		427.89		29.33	-1.11E-01		3.43E-01
		463.38		10.35	7.23E-01		1.01E+00
		600.56		17.80	8.60E-02		5.92E-01
		635.90		11.32	-2.79E-01		8.39E-01
+	SB-126	414.70		83.30	1.34E-01	4.56E-01	5.82E-01
		666.33		99.60	3.00E-01		5.36E-01
		695.00		99.60	9.07E-03		4.56E-01
		720.50		53.80	2.72E-02		8.96E-01
+	SN-126	87.57	*	37.00	4.36E-01	2.85E-01	2.85E-01
+	SB-127	473.00		25.00	2.20E+01	3.63E+01	5.17E+01
		685.20		35.70	-1.33E+01		3.63E+01
		783.80		14.70	-9.15E+00		9.81E+01
+	I-129	29.78		57.00	1.29E-01	7.61E-01	7.61E-01
		33.60		13.20	-3.58E-01		1.92E+00
		39.58		7.52	-6.62E-01		2.08E+00
+	I-131	284.30		6.05	-4.21E+00	9.55E-01	1.29E+01
		364.48		81.20	-1.96E-01		9.55E-01
		636.97		7.26	-1.63E+00		1.36E+01
		722.89		1.80	-8.42E+01		6.03E+01
+	TE-132	49.72		13.10	-7.50E+01	2.98E+01	2.76E+02
		228.16		88.00	1.54E+01		2.98E+01
+	BA-133	81.00		33.00	-1.99E-01	1.45E-01	2.84E-01
		302.84		17.80	1.27E-01		4.80E-01
		356.01		60.00	-4.16E-02		1.45E-01
+	I-133	529.87		86.30	9.58E+07	3.23E+08	3.23E+08
+	XE-133	81.00		38.00	-6.29E+00	8.98E+00	8.98E+00
+	CS-134	563.23		8.38	-4.55E-01	1.26E-01	1.12E+00
		569.32		15.43	1.55E-01		6.20E-01
		604.70		97.60	1.18E-02		1.42E-01
		795.84		85.40	5.11E-02		1.26E-01
		801.93		8.73	-9.14E-01		1.18E+00
+	CS-135	268.24		16.00	6.60E-01	5.84E-01	5.84E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	2.18E+00	3.86E-01	4.45E+00
		163.89		4.61	6.21E-01		6.97E+00
		176.55		13.56	-9.63E-01		2.35E+00
		273.65		12.66	7.46E-01		2.76E+00
		340.57		48.50	-8.11E-02		8.10E-01
		818.50		99.70	-4.21E-03		3.86E-01
		1048.07		79.60	-3.57E-01		5.36E-01
		1235.34		19.70	2.48E+00		3.80E+00
+	CS-137	661.65		85.12	-1.85E-02	1.27E-01	1.27E-01
+	LA-138	788.74		34.00	-3.29E-02	1.56E-01	3.12E-01
		1435.80		66.00	-2.92E-02		1.56E-01
+	CE-139	165.85		80.35	2.37E-02	1.08E-01	1.08E-01
+	BA-140	162.64		6.70	4.09E-01	1.62E+00	5.01E+00

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-140	304.84	4.50	2.04E+00	1.62E+00	7.87E+00
		423.70	3.20	8.51E+00		1.43E+01
		437.55	2.00	1.74E+00		2.19E+01
		537.32	25.00	5.63E-01		1.62E+00
+	LA-140	328.77	20.50	2.01E-01	5.06E-01	1.76E+00
		487.03	45.50	2.44E-01		9.22E-01
		815.85	23.50	-4.16E-01		1.64E+00
		1596.49	95.49	2.12E-01		5.06E-01
+	CE-141	145.44	48.40	3.03E-01	2.97E-01	2.97E-01
+	CE-143	57.36	11.80	5.82E+04	4.00E+05	7.12E+05
		293.26	42.00	1.86E+06		4.00E+05
		664.55	5.20	1.56E+06		2.08E+06
+	CE-144	133.54	10.80	-2.53E-01	7.12E-01	7.12E-01
+	PM-144	476.78	42.00	-9.25E-02	1.05E-01	2.15E-01
		618.01	98.60	-9.64E-03		1.08E-01
		696.49	99.49	-1.92E-02		1.05E-01
+	PM-145	36.85	21.70	-6.84E-01	4.55E-01	8.28E-01
		37.36	39.70	-1.17E-01		4.55E-01
		42.30	15.10	-9.31E-02		9.37E-01
		72.40	2.31	-6.47E+00		5.04E+00
+	PM-146	453.90	39.94	7.39E-02	2.37E-01	2.37E-01
		735.90	14.01	-2.15E-01		6.78E-01
		747.13	13.10	-3.93E-01		7.12E-01
+	ND-147	91.11	28.90	1.98E-01	1.86E+00	1.86E+00
		531.02	13.10	0.00E+00		4.07E+00
+	PM-149	285.90	3.10	-3.97E+03	1.26E+04	1.26E+04
+	EU-152	121.78	20.50	-8.47E-03	3.50E-01	3.50E-01
		244.69	5.40	3.22E-01		1.87E+00
		344.27	19.13	6.16E-02		3.95E-01
		778.89	9.20	4.50E-01		1.14E+00
		964.01	10.40	4.23E-01		1.28E+00
		1085.78	7.22	-1.02E-01		1.36E+00
		1112.02	9.60	1.69E-01		1.16E+00
		1407.95	14.94	9.26E-01		1.06E+00
+	GD-153	97.43	31.30	-7.50E-02	2.40E-01	2.40E-01
		103.18	22.20	1.21E-01		3.33E-01
+	EU-154	123.07	40.50	9.56E-02	1.79E-01	1.79E-01
		723.30	19.70	-7.40E-01		5.31E-01
		873.19	11.50	-4.26E-02		8.76E-01
		996.32	10.30	-7.81E-01		8.46E-01
		1004.76	17.90	-3.13E-01		6.15E-01
		1274.45	35.50	8.66E-02		2.97E-01
+	EU-155	86.50	30.90	-8.39E-02	3.27E-01	3.27E-01
		105.30	20.70	-2.40E-01		3.32E-01
+	EU-156	811.77	10.40	-1.44E-01	3.18E+00	3.18E+00
		1153.47	7.20	2.49E-01		6.96E+00
		1230.71	8.90	5.89E-01		4.87E+00
+	HO-166M	184.41	72.60	4.37E-01	1.65E-01	1.65E-01
		280.45	29.60	-2.23E-02		2.58E-01

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	410.94		11.10	-1.97E-02	1.65E-01	9.56E-01
		711.69		54.10	-6.93E-02		1.98E-01
+	TM-171	66.72		0.14	-8.36E+01	7.54E+01	7.54E+01
+	HF-172	81.75		4.52	-1.49E-01	6.52E-01	2.16E+00
		125.81		11.30	-1.07E-01		6.52E-01
+	LU-172	181.53		20.60	1.22E+00	2.64E+00	6.56E+00
		810.06		16.63	-4.56E+00		1.02E+01
		912.12		15.25	3.19E+01		1.94E+01
		1093.66		62.50	-7.90E-01		2.64E+00
+	LU-173	100.72		5.24	3.51E-01	4.59E-01	1.37E+00
		272.11		21.20	2.40E-01		4.59E-01
+	HF-175	343.40		84.00	5.77E-02	1.24E-01	1.24E-01
+	LU-176	88.34		13.30	2.25E+00	8.22E-02	7.87E-01
		201.83		86.00	-4.38E-02		9.20E-02
		306.78		94.00	5.92E-03		8.22E-02
+	TA-182	67.75	*	41.20	3.35E-01	5.15E-01	6.41E-01
		1121.30	*	34.90	2.53E+00		5.60E-01
		1189.05		16.23	3.14E-01		8.97E-01
		1221.41		26.98	-1.33E-02		5.15E-01
		1231.02		11.44	1.56E-01		1.29E+00
+	IR-192	308.46		29.68	-4.40E-03	2.43E-01	3.24E-01
		468.07		48.10	2.69E-03		2.43E-01
+	HG-203	279.19		77.30	-5.44E-02	1.47E-01	1.47E-01
+	BI-207	569.67		97.72	2.97E-02	9.75E-02	9.75E-02
		1063.62		74.90	-1.22E-01		1.29E-01
+	TL-208	583.14	*	30.22	6.87E-01	1.79E-01	4.19E-01
		860.37	*	4.48	1.85E+00		2.85E+00
		2614.66	*	35.85	5.91E-01		1.79E-01
+	BI-210M	262.00		45.00	8.29E-02	1.75E-01	1.75E-01
		300.00		23.00	1.35E-01		3.73E-01
+	PB-210	46.50	*	4.25	3.44E+00	4.36E+00	4.36E+00
+	PB-211	404.84		2.90	5.01E-01	3.23E+00	3.23E+00
		831.96		2.90	-1.58E+00		3.51E+00
+	BI-212	727.17		11.80	3.73E-01	1.03E+00	1.03E+00
		1620.62		2.75	4.26E-01		3.96E+00
+	PB-212	238.63	*	44.60	7.87E-01	3.18E-01	3.18E-01
		300.09		3.41	9.11E-01		2.51E+00
+	BI-214	609.31	*	46.30	4.43E+00	4.05E-01	4.05E-01
		1120.29	*	15.10	4.95E+00		1.10E+00
		1764.49	*	15.80	4.62E+00		7.44E-01
		2204.22	*	4.98	4.09E+00		1.68E+00
+	PB-214	295.21	*	19.19	4.90E+00	3.74E-01	7.03E-01
		351.92	*	37.19	4.91E+00		3.74E-01
+	RN-219	401.80		6.50	7.79E-01	1.46E+00	1.46E+00
+	RA-223	323.87		3.88	-7.59E-01	1.93E+00	1.93E+00
+	RA-224	240.98		3.95	1.91E+01	4.21E+00	4.21E+00
+	RA-225	40.00		31.00	-5.59E-01	1.76E+00	1.76E+00
+	RA-226	186.21	*	3.28	9.83E+00	3.39E+00	3.39E+00

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TH-227	50.10		8.40	-3.53E-01	7.68E-01	1.30E+00
		236.00		11.50	-1.70E-01		7.68E-01
		256.20		6.30	-8.83E-02		1.18E+00
+	AC-228	338.32	*	11.40	8.65E-01	4.96E-01	7.95E-01
		911.07	*	27.70	9.74E-01		4.96E-01
		969.11	*	16.60	9.66E-01		9.90E-01
+	TH-230	48.44		16.90	9.96E-01	7.82E-01	7.82E-01
		62.85		4.60	4.32E+00		2.38E+00
		67.67		0.37	-1.43E-02		2.71E+01
+	PA-231	283.67		1.60	1.49E-01	3.69E+00	4.82E+00
		302.67		2.30	9.77E-01		3.69E+00
+	TH-231	25.64		14.70	-8.43E-01	1.47E+00	7.24E+00
		84.21		6.40	1.28E+00		1.47E+00
+	PA-233	311.98		38.60	1.27E-01	3.80E-01	3.80E-01
+	PA-234	131.20		20.40	-7.50E-02	3.43E-01	3.43E-01
		733.99		8.80	2.38E-01		1.18E+00
		946.00		12.00	4.56E-01		9.29E-01
+	PA-234M	1001.03		0.92	2.10E-01	1.16E+01	1.16E+01
+	TH-234	63.29	*	3.80	2.60E+00	3.45E+00	3.45E+00
+	U-235	143.76		10.50	3.01E-01	7.72E-01	7.72E-01
		163.35		4.70	1.45E-01		1.63E+00
		205.31		4.70	-1.63E-01		1.77E+00
+	NP-237	86.50		12.60	-2.04E-01	7.93E-01	7.93E-01
+	NP-239	106.10		22.70	-6.55E+02	9.05E+02	9.05E+02
		228.18		10.70	1.17E+03		2.26E+03
		277.60		14.10	-1.82E+02		1.69E+03
+	AM-241	59.54		35.90	5.66E-02	2.60E-01	2.60E-01
+	AM-243	74.67		66.00	-4.78E-01	2.19E-01	2.19E-01
+	CM-243	209.75		3.29	1.26E+00	5.64E-01	2.56E+00
		228.14		10.60	3.91E-01		7.58E-01
		277.60		14.00	-6.07E-02		5.64E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.17E+00	1.17E+00	-3.19E-01	5.47E-01
	NA-22	1274.54		99.94	1.07E-01	1.07E-01	3.12E-02	4.78E-02
	NA-24	1368.53		99.99	1.43E+12	5.80E+11	-5.11E+11	6.38E+11
		2754.09		99.86	5.80E+11		-1.58E+11	1.83E+11
	AL-26	1808.65		99.76	9.67E-02	9.67E-02	1.09E-02	4.11E-02
+	K-40	1460.81	*	10.67	1.46E+00	1.46E+00	1.07E+01	6.70E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
+	TI-44	67.88	*	94.40	2.37E-01	2.25E-01	1.24E-01	1.17E-01
		78.34	*	96.00	2.25E-01		5.66E-01	1.11E-01
	SC-46	889.25		99.98	1.40E-01	1.40E-01	2.90E-02	6.45E-02
		1120.51		99.99	3.41E-01		8.95E-01	1.64E-01
	V-48	983.52		99.98	3.38E-01	3.38E-01	2.75E-02	1.54E-01
		1312.10		97.50	3.59E-01		-1.29E-02	1.60E-01
	CR-51	320.08		9.83	1.62E+00	1.62E+00	8.63E-02	7.73E-01
	MN-54	834.83		99.97	1.24E-01	1.24E-01	1.40E-02	5.76E-02
	CO-56	846.75		99.96	1.45E-01	1.45E-01	5.70E-02	6.73E-02
		1037.75		14.03	1.11E+00		4.09E-01	5.11E-01
		1238.25		67.00	3.72E-01		4.23E-01	1.76E-01
		1771.40		15.51	5.64E-01		-1.55E-01	2.24E-01
		2598.48		16.90	3.36E-01		-2.28E-01	1.06E-01
	CO-57	122.06		85.51	8.96E-02	8.96E-02	-2.17E-03	4.34E-02
		136.48		10.60	7.60E-01		3.80E-02	3.68E-01
	CO-58	810.76		99.40	1.24E-01	1.24E-01	-8.95E-02	5.68E-02
	FE-59	1099.22		56.50	2.76E-01	2.76E-01	-6.21E-02	1.24E-01
		1291.56		43.20	3.82E-01		1.08E-01	1.71E-01
	CO-60	1173.22		100.00	1.10E-01	9.34E-02	7.06E-03	4.98E-02
		1332.49		100.00	9.34E-02		-3.64E-02	4.08E-02
	ZN-65	1115.52		50.75	2.71E-01	2.71E-01	-1.44E-02	1.24E-01
	GA-67	93.31		35.70	8.41E+01	8.41E+01	1.37E+02	4.10E+01
		208.95		2.24	1.23E+03		2.45E+02	5.91E+02
		300.22		16.00	1.75E+02		6.33E+01	8.35E+01
	SE-75	121.11		16.70	5.00E-01	1.47E-01	1.53E-01	2.42E-01
		136.00		59.20	1.47E-01		2.11E-03	7.13E-02
		264.65		59.80	1.48E-01		8.44E-03	7.08E-02
		279.53		25.20	3.60E-01		3.71E-02	1.71E-01
		400.65		11.40	9.14E-01		-7.54E-02	4.33E-01
	RB-82	776.52		13.00	1.66E+00	1.66E+00	9.01E-02	7.66E-01
	RB-83	520.41		46.00	2.23E-01	2.23E-01	3.63E-02	1.04E-01
		529.64		30.30	4.01E-01		1.19E-01	1.89E-01
		552.65		16.40	6.74E-01		-5.54E-01	3.14E-01
	KR-85	513.99		0.43	2.97E+01	2.97E+01	4.15E+01	1.42E+01
	SR-85	513.99		99.27	1.73E-01	1.73E-01	2.41E-01	8.27E-02
	Y-88	898.02		93.40	1.41E-01	1.17E-01	-1.47E-03	6.50E-02
		1836.01		99.38	1.17E-01		2.28E-02	4.97E-02
	NB-93M	16.57		9.43	9.81E+01	9.81E+01	-1.18E+02	4.50E+01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	1.07E-01	9.53E-02	-1.50E-02	4.99E-02
		871.10		100.00	9.53E-02		2.81E-03	4.34E-02
	NB-95	765.79		99.81	2.49E-01	2.49E-01	2.21E-02	1.18E-01
	NB-95M	235.69		25.00	6.57E+01	6.57E+01	-1.45E+01	3.17E+01
	ZR-95	724.18		43.70	3.25E-01	2.55E-01	-2.71E-01	1.51E-01
		756.72		55.30	2.55E-01		3.13E-02	1.19E-01
	MO-99	181.06		6.20	1.22E+03	7.24E+02	1.64E+02	5.89E+02
		739.58		12.80	7.24E+02		6.08E+01	3.34E+02
		778.00		4.50	2.20E+03		9.55E+02	1.02E+03
	RU-103	497.08		89.00	1.58E-01	1.58E-01	-6.18E-02	7.39E-02
	RU-106	621.84		9.80	9.60E-01	9.60E-01	-3.83E-01	4.46E-01
	AG-108M	433.93		89.90	1.10E-01	1.10E-01	-7.14E-03	5.21E-02
		614.37		90.40	1.29E-01		2.00E-02	6.08E-02
		722.95		90.50	1.15E-01		-1.60E-01	5.34E-02
+	CD-109	88.03	*	3.72	2.96E+00	2.96E+00	4.51E+00	1.45E+00
	AG-110M	657.75		93.14	1.08E-01	1.08E-01	-8.38E-03	5.02E-02
		677.61		10.53	1.03E+00		4.71E-01	4.82E-01
		706.67		16.46	6.84E-01		-3.62E-01	3.19E-01
		763.93		21.98	5.03E-01		-2.06E-02	2.33E-01
		884.67		71.63	1.47E-01		-2.63E-02	6.71E-02
		1384.27		23.94	5.31E-01		-1.88E-01	2.38E-01
	CD-113M	263.70		0.02	3.30E+02	3.30E+02	-2.01E+01	1.58E+02
	SN-113	255.12		1.93	4.55E+00	1.38E-01	3.46E-02	2.17E+00
		391.69		64.90	1.38E-01		-1.62E-01	6.48E-02
	TE123M	159.00		84.10	1.08E-01	1.08E-01	-2.21E-02	5.22E-02
	SB-124	602.71		97.87	1.44E-01	1.44E-01	2.24E-02	6.76E-02
		645.85		7.26	1.72E+00		-1.72E-01	7.98E-01
		722.78		11.10	1.28E+00		-1.79E+00	5.95E-01
		1691.02		49.00	2.69E-01		-4.76E-03	1.15E-01
	I-125	35.49		6.49	4.36E+00	4.36E+00	1.22E+00	2.11E+00
	SB-125	176.33		6.89	1.12E+00	3.43E-01	-4.60E-01	5.41E-01
		427.89		29.33	3.43E-01		-1.11E-01	1.63E-01
		463.38		10.35	1.01E+00		7.23E-01	4.78E-01
		600.56		17.80	5.92E-01		8.60E-02	2.78E-01
		635.90		11.32	8.39E-01		-2.79E-01	3.90E-01
	SB-126	414.70		83.30	5.82E-01	4.56E-01	1.34E-01	2.78E-01
		666.33		99.60	5.36E-01		3.00E-01	2.52E-01
		695.00		99.60	4.56E-01		9.07E-03	2.12E-01
		720.50		53.80	8.96E-01		2.72E-02	4.17E-01
+	SN-126	87.57	*	37.00	2.85E-01	2.85E-01	4.36E-01	1.40E-01
	SB-127	473.00		25.00	5.17E+01	3.63E+01	2.20E+01	2.44E+01
		685.20		35.70	3.63E+01		-1.33E+01	1.69E+01
		783.80		14.70	9.81E+01		-9.15E+00	4.55E+01
	I-129	29.78		57.00	7.61E-01	7.61E-01	1.29E-01	3.68E-01
		33.60		13.20	1.92E+00		-3.58E-01	9.29E-01
		39.58		7.52	2.08E+00		-6.62E-01	1.00E+00
	I-131	284.30		6.05	1.29E+01	9.55E-01	-4.21E+00	6.15E+00
		364.48		81.20	9.55E-01		-1.96E-01	4.50E-01
		636.97		7.26	1.36E+01		-1.63E+00	6.35E+00
		722.89		1.80	6.03E+01		-8.42E+01	2.81E+01
	TE-132	49.72		13.10	2.76E+02	2.98E+01	-7.50E+01	1.34E+02
		228.16		88.00	2.98E+01		1.54E+01	1.43E+01
	BA-133	81.00		33.00	2.84E-01	1.45E-01	-1.99E-01	1.39E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-133	302.84	17.80	4.80E-01	1.45E-01	1.27E-01	2.29E-01
	356.01	60.00	1.45E-01		-4.16E-02	6.88E-02
I-133	529.87	86.30	3.23E+08	3.23E+08	9.58E+07	1.52E+08
XE-133	81.00	38.00	8.98E+00	8.98E+00	-6.29E+00	4.38E+00
CS-134	563.23	8.38	1.12E+00	1.26E-01	-4.55E-01	5.26E-01
	569.32	15.43	6.20E-01		1.55E-01	2.90E-01
	604.70	97.60	1.42E-01		1.18E-02	6.79E-02
	795.84	85.40	1.26E-01		5.11E-02	5.83E-02
	801.93	8.73	1.18E+00		-9.14E-01	5.45E-01
CS-135	268.24	16.00	5.84E-01	5.84E-01	6.60E-01	2.81E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	4.45E+00	3.86E-01	2.18E+00	2.15E+00
	163.89	4.61	6.97E+00		6.21E-01	3.37E+00
	176.55	13.56	2.35E+00		-9.63E-01	1.13E+00
	273.65	12.66	2.76E+00		7.46E-01	1.32E+00
	340.57	48.50	8.10E-01		-8.11E-02	3.87E-01
	818.50	99.70	3.86E-01		-4.21E-03	1.76E-01
	1048.07	79.60	5.36E-01		-3.57E-01	2.42E-01
	1235.34	19.70	3.80E+00		2.48E+00	1.78E+00
CS-137	661.65	85.12	1.27E-01	1.27E-01	-1.85E-02	5.97E-02
LA-138	788.74	34.00	3.12E-01	1.56E-01	-3.29E-02	1.44E-01
	1435.80	66.00	1.56E-01		-2.92E-02	6.85E-02
CE-139	165.85	80.35	1.08E-01	1.08E-01	2.37E-02	5.22E-02
BA-140	162.64	6.70	5.01E+00	1.62E+00	4.09E-01	2.42E+00
	304.84	4.50	7.87E+00		2.04E+00	3.75E+00
	423.70	3.20	1.43E+01		8.51E+00	6.81E+00
	437.55	2.00	2.19E+01		1.74E+00	1.04E+01
	537.32	25.00	1.62E+00		5.63E-01	7.60E-01
LA-140	328.77	20.50	1.76E+00	5.06E-01	2.01E-01	8.35E-01
	487.03	45.50	9.22E-01		2.44E-01	4.35E-01
	815.85	23.50	1.64E+00		-4.16E-01	7.45E-01
	1596.49	95.49	5.06E-01		2.12E-01	2.23E-01
CE-141	145.44	48.40	2.97E-01	2.97E-01	3.03E-01	1.44E-01
CE-143	57.36	11.80	7.12E+05	4.00E+05	5.82E+04	3.45E+05
	293.26	42.00	4.00E+05		1.86E+06	1.96E+05
	664.55	5.20	2.08E+06		1.56E+06	9.82E+05
CE-144	133.54	10.80	7.12E-01	7.12E-01	-2.53E-01	3.44E-01
PM-144	476.78	42.00	2.15E-01	1.05E-01	-9.25E-02	1.01E-01
	618.01	98.60	1.08E-01		-9.64E-03	5.04E-02
	696.49	99.49	1.05E-01		-1.92E-02	4.88E-02
PM-145	36.85	21.70	8.28E-01	4.55E-01	-6.84E-01	3.99E-01
	37.36	39.70	4.55E-01		-1.17E-01	2.20E-01
	42.30	15.10	9.37E-01		-9.31E-02	4.53E-01
	72.40	2.31	5.04E+00		-6.47E+00	2.47E+00
PM-146	453.90	39.94	2.37E-01	2.37E-01	7.39E-02	1.12E-01
	735.90	14.01	6.78E-01		-2.15E-01	3.12E-01
	747.13	13.10	7.12E-01		-3.93E-01	3.27E-01
ND-147	91.11	28.90	1.86E+00	1.86E+00	1.98E-01	9.06E-01
	531.02	13.10	4.07E+00		0.00E+00	1.92E+00
PM-149	285.90	3.10	1.26E+04	1.26E+04	-3.97E+03	6.00E+03
EU-152	121.78	20.50	3.50E-01	3.50E-01	-8.47E-03	1.69E-01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	1.87E+00	3.50E-01	3.22E-01	9.07E-01
		344.27		19.13	3.95E-01		6.16E-02	1.87E-01
		778.89		9.20	1.14E+00		4.50E-01	5.26E-01
		964.01		10.40	1.28E+00		4.23E-01	5.96E-01
		1085.78		7.22	1.36E+00		-1.02E-01	6.11E-01
		1112.02		9.60	1.16E+00		1.69E-01	5.28E-01
		1407.95		14.94	1.06E+00		9.26E-01	4.89E-01
	GD-153	97.43		31.30	2.40E-01	2.40E-01	-7.50E-02	1.16E-01
		103.18		22.20	3.33E-01		1.21E-01	1.61E-01
	EU-154	123.07		40.50	1.79E-01	1.79E-01	9.56E-02	8.66E-02
		723.30		19.70	5.31E-01		-7.40E-01	2.47E-01
		873.19		11.50	8.76E-01		-4.26E-02	4.01E-01
		996.32		10.30	8.46E-01		-7.81E-01	3.77E-01
		1004.76		17.90	6.15E-01		-3.13E-01	2.81E-01
		1274.45		35.50	2.97E-01		8.66E-02	1.33E-01
	EU-155	86.50		30.90	3.27E-01	3.27E-01	-8.39E-02	1.60E-01
		105.30		20.70	3.32E-01		-2.40E-01	1.60E-01
	EU-156	811.77		10.40	3.18E+00	3.18E+00	-1.44E-01	1.46E+00
		1153.47		7.20	6.96E+00		2.49E-01	3.23E+00
		1230.71		8.90	4.87E+00		5.89E-01	2.22E+00
	HO-166M	184.41		72.60	1.65E-01	1.65E-01	4.37E-01	8.07E-02
		280.45		29.60	2.58E-01		-2.23E-02	1.23E-01
		410.94		11.10	9.56E-01		-1.97E-02	4.57E-01
		711.69		54.10	1.98E-01		-6.93E-02	9.25E-02
	TM-171	66.72		0.14	7.54E+01	7.54E+01	-8.36E+01	3.68E+01
	HF-172	81.75		4.52	2.16E+00	6.52E-01	-1.49E-01	1.05E+00
		125.81		11.30	6.52E-01		-1.07E-01	3.15E-01
	LU-172	181.53		20.60	6.56E+00	2.64E+00	1.22E+00	3.17E+00
		810.06		16.63	1.02E+01		-4.56E+00	4.70E+00
		912.12		15.25	1.94E+01		3.19E+01	9.24E+00
		1093.66		62.50	2.64E+00		-7.90E-01	1.18E+00
	LU-173	100.72		5.24	1.37E+00	4.59E-01	3.51E-01	6.63E-01
		272.11		21.20	4.59E-01		2.40E-01	2.21E-01
	HF-175	343.40		84.00	1.24E-01	1.24E-01	5.77E-02	5.89E-02
	LU-176	88.34		13.30	7.87E-01	8.22E-02	2.25E+00	3.85E-01
		201.83		86.00	9.20E-02		-4.38E-02	4.43E-02
		306.78		94.00	8.22E-02		5.92E-03	3.91E-02
	TA-182	67.75	*	41.20	6.41E-01	5.15E-01	3.35E-01	3.17E-01
		1121.30	*	34.90	5.60E-01		2.53E+00	2.63E-01
		1189.05		16.23	8.97E-01		3.14E-01	4.09E-01
		1221.41		26.98	5.15E-01		-1.33E-02	2.34E-01
		1231.02		11.44	1.29E+00		1.56E-01	5.88E-01
	IR-192	308.46		29.68	3.24E-01	2.43E-01	-4.40E-03	1.54E-01
		468.07		48.10	2.43E-01		2.69E-03	1.14E-01
	HG-203	279.19		77.30	1.47E-01	1.47E-01	-5.44E-02	7.02E-02
	BI-207	569.67		97.72	9.75E-02	9.75E-02	2.97E-02	4.57E-02
		1063.62		74.90	1.29E-01		-1.22E-01	5.79E-02
+	TL-208	583.14	*	30.22	4.19E-01	1.79E-01	6.87E-01	1.99E-01
		860.37	*	4.48	2.85E+00		1.85E+00	1.33E+00
		2614.66	*	35.85	1.79E-01		5.91E-01	6.66E-02
	BI-210M	262.00		45.00	1.75E-01	1.75E-01	8.29E-02	8.39E-02
		300.00		23.00	3.73E-01		1.35E-01	1.78E-01
+	PB-210	46.50	*	4.25	4.36E+00	4.36E+00	3.44E+00	2.14E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	3.23E+00	3.23E+00	5.01E-01	1.54E+00
		831.96		2.90	3.51E+00		-1.58E+00	1.61E+00
	BI-212	727.17		11.80	1.03E+00	1.03E+00	3.73E-01	4.84E-01
		1620.62		2.75	3.96E+00		4.26E-01	1.74E+00
+	PB-212	238.63	*	44.60	3.18E-01	3.18E-01	7.87E-01	1.56E-01
		300.09		3.41	2.51E+00		9.11E-01	1.20E+00
+	BI-214	609.31	*	46.30	4.05E-01	4.05E-01	4.43E+00	1.95E-01
		1120.29	*	15.10	1.10E+00		4.95E+00	5.15E-01
		1764.49	*	15.80	7.44E-01		4.62E+00	3.27E-01
		2204.22	*	4.98	1.68E+00		4.09E+00	6.80E-01
+	PB-214	295.21	*	19.19	7.03E-01	3.74E-01	4.90E+00	3.42E-01
		351.92	*	37.19	3.74E-01		4.91E+00	1.81E-01
	RN-219	401.80		6.50	1.46E+00	1.46E+00	7.79E-01	6.92E-01
	RA-223	323.87		3.88	1.93E+00	1.93E+00	-7.59E-01	9.13E-01
	RA-224	240.98		3.95	4.21E+00	4.21E+00	1.91E+01	2.06E+00
	RA-225	40.00		31.00	1.76E+00	1.76E+00	-5.59E-01	8.48E-01
+	RA-226	186.21	*	3.28	3.39E+00	3.39E+00	9.83E+00	1.65E+00
	TH-227	50.10		8.40	1.30E+00	7.68E-01	-3.53E-01	6.30E-01
		236.00		11.50	7.68E-01		-1.70E-01	3.70E-01
		256.20		6.30	1.18E+00		-8.83E-02	5.62E-01
+	AC-228	338.32	*	11.40	7.95E-01	4.96E-01	8.65E-01	3.79E-01
		911.07	*	27.70	4.96E-01		9.74E-01	2.32E-01
		969.11	*	16.60	9.90E-01		9.66E-01	4.67E-01
	TH-230	48.44		16.90	7.82E-01	7.82E-01	9.96E-01	3.81E-01
		62.85		4.60	2.38E+00		4.32E+00	1.16E+00
		67.67		0.37	2.71E+01		-1.43E-02	1.32E+01
	PA-231	283.67		1.60	4.82E+00	3.69E+00	1.49E-01	2.30E+00
		302.67		2.30	3.69E+00		9.77E-01	1.76E+00
	TH-231	25.64		14.70	7.24E+00	1.47E+00	-8.43E-01	3.52E+00
		84.21		6.40	1.47E+00		1.28E+00	7.18E-01
	PA-233	311.98		38.60	3.80E-01	3.80E-01	1.27E-01	1.80E-01
	PA-234	131.20		20.40	3.43E-01	3.43E-01	-7.50E-02	1.66E-01
		733.99		8.80	1.18E+00		2.38E-01	5.46E-01
		946.00		12.00	9.29E-01		4.56E-01	4.27E-01
	PA-234M	1001.03		0.92	1.16E+01	1.16E+01	2.10E-01	5.27E+00
+	TH-234	63.29	*	3.80	3.45E+00	3.45E+00	2.60E+00	1.69E+00
	U-235	143.76		10.50	7.72E-01	7.72E-01	3.01E-01	3.74E-01
		163.35		4.70	1.63E+00		1.45E-01	7.86E-01
		205.31		4.70	1.77E+00		-1.63E-01	8.56E-01
	NP-237	86.50		12.60	7.93E-01	7.93E-01	-2.04E-01	3.88E-01
	NP-239	106.10		22.70	9.05E+02	9.05E+02	-6.55E+02	4.38E+02
		228.18		10.70	2.26E+03		1.17E+03	1.09E+03
		277.60		14.10	1.69E+03		-1.82E+02	8.05E+02
	AM-241	59.54		35.90	2.60E-01	2.60E-01	5.66E-02	1.26E-01
	AM-243	74.67		66.00	2.19E-01	2.19E-01	-4.78E-01	1.08E-01
	CM-243	209.75		3.29	2.56E+00	5.64E-01	1.26E+00	1.23E+00
		228.14		10.60	7.58E-01		3.91E-01	3.64E-01
		277.60		14.00	5.64E-01		-6.07E-02	2.69E-01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-8 075-076

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	41	80	104	227	164	169
25:	69	66	63	71	57	58	58	64
33:	56	56	40	53	56	52	41	64
41:	69	49	63	64	65	84	176	85
49:	66	57	85	60	92	114	71	67
57:	64	84	74	70	85	87	123	193
65:	124	88	88	169	117	106	106	99
73:	137	121	364	307	394	586	129	137
81:	104	122	80	150	129	64	168	229
89:	82	134	129	80	201	137	93	63
97:	50	58	78	72	52	49	64	59
105:	72	61	57	51	77	53	51	69
113:	64	65	64	70	52	50	61	60
121:	69	59	60	61	63	49	64	67
129:	66	54	52	56	60	58	55	64
137:	73	60	63	65	65	72	60	79
145:	89	51	62	62	45	62	67	60
153:	63	62	70	59	46	63	66	61
161:	54	63	52	61	48	50	53	53
169:	48	58	48	51	53	54	53	52
177:	45	50	48	57	59	49	51	57
185:	63	218	216	72	43	53	59	47
193:	42	56	67	61	52	59	47	44
201:	51	39	51	45	57	56	44	49
209:	52	63	43	41	41	41	34	44
217:	41	31	48	41	43	35	31	36
225:	33	40	36	50	36	40	33	32
233:	44	35	45	48	38	70	243	107
241:	73	242	177	42	30	27	20	33
249:	36	33	32	28	32	22	28	34
257:	33	30	29	32	32	27	38	33
265:	26	23	27	31	44	52	69	35
273:	29	35	43	29	29	29	27	35
281:	17	34	24	28	28	24	25	31
289:	33	31	24	33	36	60	294	372
297:	60	31	27	32	43	26	33	17
305:	35	22	31	15	21	27	20	17
313:	22	21	15	21	26	30	19	26
321:	30	23	28	24	17	15	22	26
329:	29	29	22	28	32	26	12	27
337:	16	45	65	20	22	28	24	16
345:	21	23	15	16	23	29	127	682
353:	378	52	22	28	11	13	16	20
361:	14	16	16	18	21	16	17	22

369:	23	18	13	13	17	31	20	13

Sample Title: FEEBRIS1D-8 075-076

Channel								
377:	15	14	23	13	28	21	19	16
385:	18	25	19	27	26	25	20	9
393:	14	15	23	32	16	24	15	19
401:	26	23	29	30	22	17	25	13
409:	31	31	18	27	19	17	30	17
417:	18	25	21	12	24	22	23	21
425:	22	20	12	21	9	26	16	20
433:	19	14	17	25	12	23	14	17
441:	18	14	22	12	14	14	15	16
449:	18	13	12	13	16	12	20	15
457:	15	11	9	11	16	28	20	26
465:	13	9	8	16	9	19	17	14
473:	18	16	7	11	12	10	7	16
481:	15	10	8	15	14	15	17	16
489:	10	10	17	11	14	8	8	10
497:	10	14	14	12	12	16	7	9
505:	9	12	21	24	20	28	63	43
513:	21	13	9	6	9	6	9	12
521:	9	12	12	3	9	8	16	17
529:	9	10	9	18	9	12	12	12
537:	8	10	7	13	15	10	5	9
545:	16	10	4	18	13	9	9	10
553:	10	10	10	9	12	15	11	9
561:	11	11	12	9	13	5	11	13
569:	7	10	11	14	8	5	12	16
577:	6	6	9	21	17	13	53	44
585:	20	12	10	6	10	10	9	14
593:	7	12	8	13	12	16	7	13
601:	10	10	15	10	9	13	19	66
609:	356	430	52	25	13	14	11	9
617:	12	16	9	7	9	8	12	4
625:	7	7	8	5	8	6	7	8
633:	9	15	7	7	4	8	9	11
641:	13	7	8	8	3	10	8	6
649:	12	10	4	12	6	8	8	7
657:	9	11	6	7	8	11	11	12
665:	21	22	9	6	7	10	7	11
673:	13	14	9	3	8	15	7	9
681:	12	8	6	8	8	7	4	15
689:	10	9	5	11	7	6	11	8
697:	7	8	8	10	9	10	14	9
705:	8	7	11	13	7	8	8	16
713:	9	8	10	9	13	7	9	14
721:	9	7	5	11	4	10	16	27
729:	4	11	10	15	6	6	8	7
737:	6	7	7	4	6	10	10	8
745:	4	7	2	4	10	9	10	6
753:	15	10	7	12	9	2	10	7
761:	6	5	7	10	6	7	12	31
769:	38	14	7	8	9	4	7	12
777:	4	8	10	7	5	7	2	9
785:	15	13	5	10	7	6	5	8
793:	6	6	11	9	10	4	6	3

801:	6	7	7	9	9	15	13	8

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Channel								
809:	5	7	7	5	2	6	9	3
817:	2	7	5	10	6	4	8	3
825:	3	5	3	8	7	3	7	9
833:	8	5	6	11	11	10	12	9
841:	8	6	7	13	3	12	8	5
849:	7	8	2	9	3	3	11	5
857:	5	5	9	10	11	5	7	6
865:	6	1	5	5	4	8	3	7
873:	4	5	8	5	8	6	3	6
881:	5	6	6	3	4	9	5	4
889:	9	4	8	10	9	7	10	7
897:	5	7	8	4	6	6	6	7
905:	4	4	5	2	13	17	40	30
913:	12	6	8	5	7	5	8	8
921:	6	6	9	8	3	4	5	5
929:	6	4	5	7	19	21	15	8
937:	6	4	3	9	2	4	8	10
945:	6	5	3	5	7	3	6	3
953:	4	9	8	4	5	5	4	3
961:	4	4	10	16	12	9	7	14
969:	24	20	6	7	7	4	6	2
977:	5	10	6	8	3	10	1	6
985:	7	5	3	2	4	7	6	3
993:	5	1	4	4	4	2	3	5
1001:	11	6	6	3	8	4	4	7
1009:	4	11	8	3	3	7	3	10
1017:	5	12	5	3	7	3	3	5
1025:	4	6	4	5	9	5	7	11
1033:	6	7	7	7	4	9	7	6
1041:	6	3	4	4	6	0	3	1
1049:	10	3	7	11	9	5	12	7
1057:	5	4	10	7	6	4	1	5
1065:	3	2	5	8	5	8	5	3
1073:	2	7	6	3	12	7	2	4
1081:	4	1	5	5	4	1	4	1
1089:	6	6	4	3	5	5	2	1
1097:	6	3	5	7	3	3	3	9
1105:	4	4	6	5	4	7	5	7
1113:	2	5	3	4	7	5	18	97
1121:	73	16	4	7	4	3	7	5
1129:	4	5	5	6	1	6	9	5
1137:	5	5	6	2	5	11	5	5
1145:	9	5	5	4	5	8	4	5
1153:	6	7	14	11	5	5	7	3
1161:	8	7	4	7	7	3	6	5
1169:	4	6	6	3	2	2	7	3
1177:	4	3	3	5	10	6	8	3
1185:	2	7	6	5	4	7	5	3
1193:	5	4	0	5	2	3	5	1
1201:	7	1	8	3	4	2	11	15
1209:	5	7	6	5	2	5	2	5
1217:	2	6	3	6	4	6	1	6
1225:	6	5	5	6	9	5	4	3

1233:	5	4	5	9	19	32	19	4

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Channel								
1241:	6	6	7	2	5	5	12	2
1249:	3	4	2	6	7	5	5	3
1257:	3	5	7	5	3	6	4	3
1265:	5	5	5	3	3	2	2	1
1273:	3	6	4	4	3	1	3	12
1281:	7	4	2	2	8	3	3	7
1289:	5	5	4	1	1	1	4	5
1297:	6	8	5	5	3	3	3	2
1305:	6	3	1	4	4	1	3	3
1313:	3	6	3	7	9	3	3	1
1321:	5	2	6	3	2	2	2	6
1329:	2	2	2	1	3	4	2	3
1337:	3	2	3	6	2	6	2	7
1345:	5	4	4	8	2	3	1	2
1353:	4	6	2	0	1	5	1	4
1361:	3	3	2	3	2	4	2	3
1369:	2	7	3	8	5	1	3	10
1377:	19	24	8	1	4	2	2	4
1385:	9	2	3	4	7	4	4	5
1393:	1	3	2	2	5	4	4	10
1401:	11	7	4	1	6	2	9	13
1409:	9	8	1	3	2	6	3	4
1417:	4	1	0	2	1	3	2	3
1425:	1	7	2	4	3	6	7	3
1433:	1	0	3	5	4	1	4	7
1441:	6	5	2	3	2	1	6	6
1449:	6	5	2	2	2	4	3	3
1457:	1	5	25	89	90	43	7	7
1465:	2	1	1	1	1	4	1	2
1473:	1	4	5	4	4	5	3	3
1481:	1	6	4	1	0	3	1	2
1489:	1	5	2	3	1	4	0	5
1497:	2	1	3	3	3	2	1	2
1505:	2	2	3	7	16	6	2	3
1513:	4	5	2	2	5	3	0	1
1521:	1	1	0	0	2	5	2	0
1529:	3	4	0	3	5	1	3	1
1537:	2	3	4	3	1	4	2	3
1545:	2	2	1	2	2	4	4	5
1553:	4	3	2	3	1	2	3	1
1561:	3	1	4	3	2	1	2	1
1569:	1	1	6	2	3	1	3	1
1577:	2	1	4	2	3	5	2	2
1585:	1	3	4	9	2	1	1	2
1593:	3	1	3	3	2	3	3	0
1601:	2	1	5	3	1	4	1	2
1609:	5	2	2	1	2	0	1	1
1617:	2	3	1	2	4	3	2	4
1625:	2	2	0	3	1	5	3	1
1633:	1	1	4	2	2	3	0	1
1641:	2	1	1	0	3	2	1	0
1649:	1	2	0	2	0	4	1	2
1657:	1	0	4	3	6	9	2	1

1665:	1	2	1	0	1	0	5	2

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Channel								
1673:	0	0	1	0	0	1	1	1
1681:	1	2	1	5	1	3	0	0
1689:	3	2	1	2	2	2	1	3
1697:	0	1	0	1	0	1	2	0
1705:	3	2	3	1	1	1	1	6
1713:	0	1	1	0	1	0	3	3
1721:	1	3	2	1	5	1	2	10
1729:	10	8	9	2	1	1	3	2
1737:	3	1	0	2	4	3	7	2
1745:	1	1	3	1	1	5	0	2
1753:	2	1	0	2	0	2	3	1
1761:	2	4	30	65	35	12	1	0
1769:	1	0	0	0	4	0	0	5
1777:	3	3	1	0	1	2	0	0
1785:	1	0	0	1	1	2	0	2
1793:	2	0	2	3	0	3	1	1
1801:	1	1	3	2	3	2	0	1
1809:	1	3	1	1	0	1	3	3
1817:	3	1	0	0	1	1	3	2
1825:	0	1	0	4	0	0	2	2
1833:	2	3	1	2	0	0	3	1
1841:	0	1	0	1	0	6	10	5
1849:	2	1	0	0	0	0	1	4
1857:	1	0	0	1	1	2	1	2
1865:	1	2	2	0	1	1	1	1
1873:	0	2	2	0	1	0	1	0
1881:	3	1	1	1	0	1	0	0
1889:	2	0	1	2	2	3	4	1
1897:	2	4	0	1	0	1	3	0
1905:	0	0	1	0	0	2	1	1
1913:	1	1	1	1	0	0	1	0
1921:	2	1	2	0	2	0	1	0
1929:	0	0	0	0	0	2	0	1
1937:	0	2	0	0	1	2	1	1
1945:	2	0	3	1	2	2	0	0
1953:	0	1	4	2	1	0	0	2
1961:	0	3	0	0	1	0	1	1
1969:	1	0	1	2	0	1	2	1
1977:	0	0	0	1	0	2	2	0
1985:	0	0	0	1	0	1	1	0
1993:	2	1	2	0	1	0	2	2
2001:	0	0	1	2	1	0	0	1
2009:	2	1	3	0	0	1	1	1
2017:	1	2	0	3	0	1	0	1
2025:	1	1	1	0	1	1	1	1
2033:	0	0	0	1	1	0	1	0
2041:	0	1	0	0	1	1	1	1
2049:	2	0	1	1	1	2	2	1
2057:	3	0	1	2	1	0	0	0
2065:	3	1	2	3	1	0	4	1
2073:	1	1	0	1	0	3	0	0
2081:	1	0	3	1	0	2	2	0
2089:	0	0	1	1	0	1	1	1

2097:	1	2	1	1	0	2	2	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
2105:	2	0	0	0	1	0	0	1
2113:	0	0	0	2	1	7	3	3
2121:	1	2	1	0	1	3	0	0
2129:	1	3	3	0	1	1	0	0
2137:	0	2	1	0	1	0	1	1
2145:	0	1	0	1	2	1	1	0
2153:	1	0	1	0	0	0	1	0
2161:	0	0	2	0	0	1	0	0
2169:	2	0	0	2	1	1	0	2
2177:	1	2	2	0	0	1	0	0
2185:	1	1	0	0	0	4	0	1
2193:	1	3	2	0	1	2	1	0
2201:	0	4	13	16	5	1	0	1
2209:	1	1	1	2	0	1	1	2
2217:	0	0	1	2	0	1	0	2
2225:	0	1	1	0	4	2	0	0
2233:	1	0	1	3	0	0	1	1
2241:	1	1	0	2	0	0	0	0
2249:	0	0	0	0	1	2	1	1
2257:	0	0	2	0	2	3	0	1
2265:	1	0	0	1	0	0	2	1
2273:	0	0	0	0	0	1	1	0
2281:	1	0	1	0	0	1	1	0
2289:	0	1	2	1	2	0	2	0
2297:	0	0	1	0	0	1	1	0
2305:	0	2	1	0	0	1	0	1
2313:	0	3	0	0	0	0	0	0
2321:	2	1	1	1	0	0	1	1
2329:	1	1	2	3	0	1	3	0
2337:	0	0	2	5	0	1	0	2
2345:	0	0	0	0	1	0	0	1
2353:	1	0	2	0	2	0	0	2
2361:	0	1	0	0	2	0	0	0
2369:	1	0	0	2	1	0	1	1
2377:	1	2	1	0	0	0	1	0
2385:	1	1	0	1	1	0	1	2
2393:	0	0	1	0	1	0	2	0
2401:	2	0	1	1	2	0	0	2
2409:	0	1	0	1	1	1	0	1
2417:	0	0	1	0	0	0	1	0
2425:	0	1	0	0	0	0	0	0
2433:	3	0	2	0	0	1	0	1
2441:	1	1	0	1	2	2	4	0
2449:	3	0	0	1	1	0	0	0
2457:	3	0	0	0	0	0	0	0
2465:	0	2	0	0	0	2	0	0
2473:	1	0	0	0	0	0	0	0
2481:	0	0	0	2	0	2	1	0
2489:	0	0	0	0	0	0	2	1
2497:	0	0	0	1	0	0	2	1
2505:	2	0	0	1	1	2	0	0
2513:	0	0	1	0	0	0	1	2
2521:	2	0	0	0	0	0	0	1

2529:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
2537:	0	0	0	0	1	1	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	0	0	1	0	0	0
2561:	1	1	1	1	0	0	0	2
2569:	0	0	0	1	0	0	0	0
2577:	0	1	1	1	0	0	0	2
2585:	0	0	0	0	0	0	0	1
2593:	1	0	0	1	0	0	0	0
2601:	0	0	0	2	0	1	0	0
2609:	0	1	1	5	17	5	6	5
2617:	0	0	1	1	0	0	0	0
2625:	0	0	0	0	2	0	0	1
2633:	0	0	0	1	0	1	0	0
2641:	0	1	0	0	0	0	1	1
2649:	1	0	0	0	0	0	0	0
2657:	0	0	0	0	0	1	0	0
2665:	0	0	0	0	0	1	0	0
2673:	0	0	0	0	0	1	1	0
2681:	0	0	0	1	0	0	0	1
2689:	1	0	0	0	0	1	0	0
2697:	0	0	0	0	0	0	0	0
2705:	1	0	0	0	0	0	0	0
2713:	0	1	0	0	1	0	1	0
2721:	0	1	1	0	0	1	0	0
2729:	1	0	0	0	0	0	0	0
2737:	0	0	0	0	0	0	0	1
2745:	0	0	1	0	0	0	0	0
2753:	0	1	0	0	0	0	1	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	2	0
2777:	0	0	0	0	0	0	0	1
2785:	1	0	0	0	0	0	0	0
2793:	0	1	0	0	0	1	0	0
2801:	0	0	1	0	0	0	0	1
2809:	0	2	0	0	0	0	0	1
2817:	0	0	0	0	1	0	0	0
2825:	0	1	0	0	0	1	0	0
2833:	1	0	0	0	1	0	0	0
2841:	0	0	1	0	0	0	1	0
2849:	0	0	0	1	0	0	0	1
2857:	0	0	0	0	0	0	0	1
2865:	1	0	0	0	1	1	1	0
2873:	0	0	0	0	1	0	0	0
2881:	0	0	0	0	1	0	0	0
2889:	0	1	1	0	0	0	1	0
2897:	0	0	0	0	0	0	0	0
2905:	0	2	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	1	0	1	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	1	0	0	0	1	1	0	0
2945:	0	0	0	0	0	0	1	1
2953:	0	1	3	0	0	2	0	0

2961:	0	1	0	1	0	0	0	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
2969:	0	0	0	0	0	1	0	0
2977:	0	0	0	0	0	0	0	0
2985:	1	1	0	0	1	0	0	1
2993:	0	1	0	1	0	1	0	1
3001:	1	0	0	0	0	0	0	0
3009:	0	0	1	0	1	0	0	0
3017:	0	0	0	0	0	1	0	1
3025:	0	0	1	0	0	0	1	0
3033:	0	0	0	0	0	1	0	0
3041:	0	0	0	1	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	1	0	0
3065:	1	0	0	0	0	1	0	0
3073:	0	0	0	1	0	0	0	0
3081:	1	0	0	0	0	0	0	0
3089:	0	0	0	0	0	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	1	0	0	0	0	0
3113:	1	1	0	0	0	0	0	1
3121:	0	0	0	0	2	0	0	0
3129:	1	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	1	0	0	0	0
3153:	0	0	1	1	0	0	0	0
3161:	0	2	0	0	1	0	2	0
3169:	0	0	0	0	0	0	0	2
3177:	0	0	0	0	0	0	1	0
3185:	1	0	0	0	0	0	0	0
3193:	0	2	1	0	0	0	1	0
3201:	1	1	0	0	0	0	1	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	1	0	0	0
3233:	0	1	0	0	0	0	0	0
3241:	1	0	1	0	0	1	0	0
3249:	0	1	0	0	0	1	0	0
3257:	1	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	1	0	0	0	0
3297:	0	1	0	0	0	1	0	0
3305:	0	0	0	0	1	0	0	0
3313:	1	0	0	2	1	0	1	1
3321:	0	1	0	0	0	0	0	0
3329:	0	0	1	0	0	0	0	0
3337:	1	0	0	0	1	0	0	0
3345:	1	0	0	0	1	1	0	0
3353:	0	0	1	0	0	0	0	0
3361:	0	0	0	0	0	0	1	0
3369:	0	0	1	0	0	0	0	1
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-8 075-076

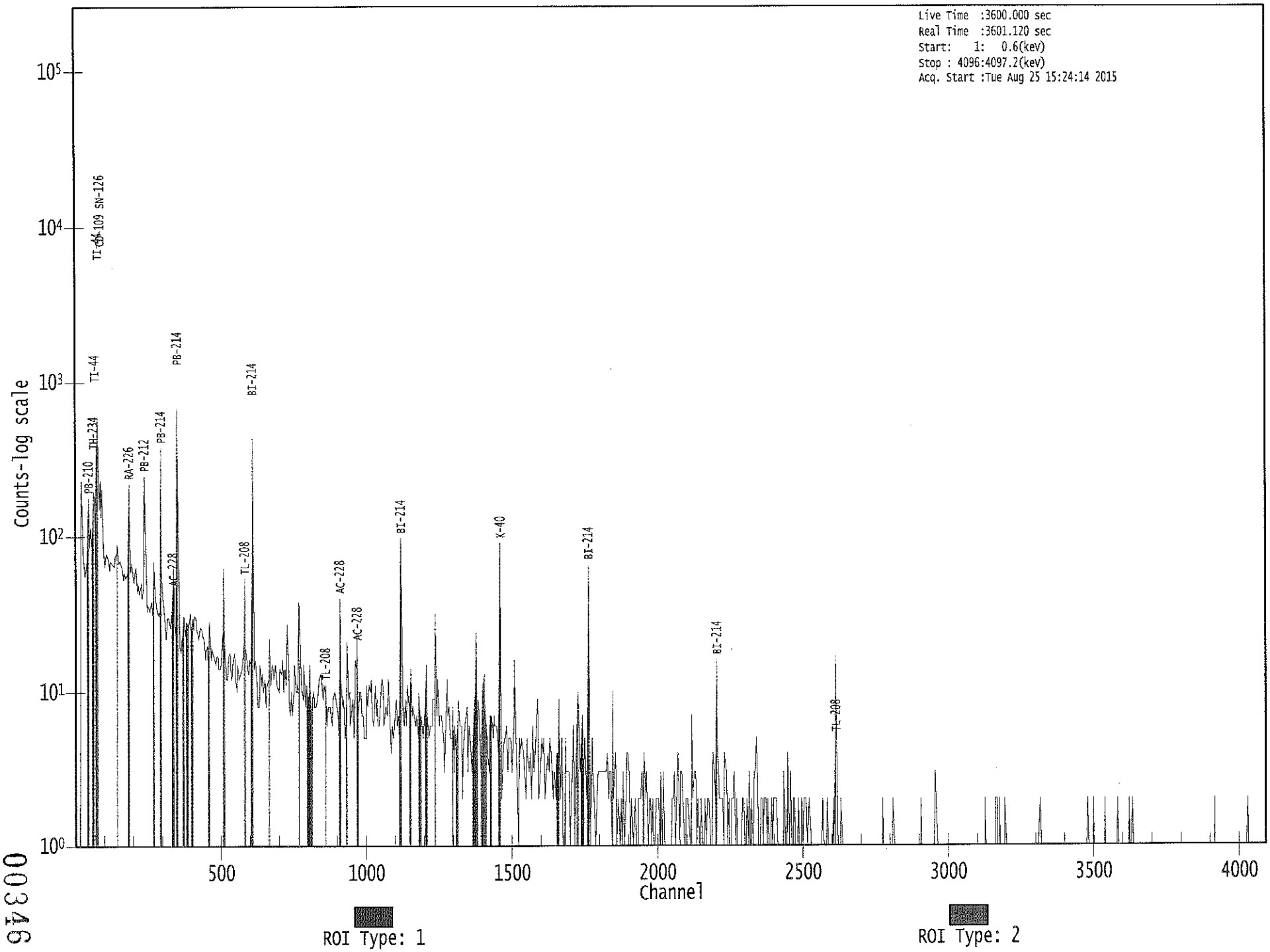
Channel								
3401:	0	0	0	0	1	0	1	1
3409:	0	0	1	0	0	1	0	0
3417:	1	0	0	1	0	0	0	0
3425:	0	0	1	0	0	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	1	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	1
3473:	0	0	1	1	0	0	2	1
3481:	1	2	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	2	0	0	0	0
3505:	0	0	0	1	0	0	1	0
3513:	0	0	0	0	0	0	0	1
3521:	0	1	0	0	1	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	2	0	0	0	0	0
3545:	0	0	0	0	0	1	0	1
3553:	0	0	0	0	0	0	1	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	1	0	0
3577:	0	0	0	1	1	0	1	2
3585:	0	0	0	0	0	0	0	0
3593:	0	0	1	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	1
3617:	0	0	0	1	2	0	1	0
3625:	0	0	0	0	1	0	0	0
3633:	0	2	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	1	0	0	0	0	0	0	1
3657:	1	0	0	1	0	0	0	0
3665:	1	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	0	0	1	0
3697:	0	0	0	0	0	1	0	0
3705:	0	0	0	0	1	0	0	0
3713:	0	0	1	0	1	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	1
3737:	0	1	0	0	1	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	1	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	1	0	1	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	0	0	0
3801:	1	0	0	1	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	1	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
3833:	0	0	0	1	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	0	0	0	1	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	1	0	0	0	0	0	0	0
3881:	1	0	0	0	0	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	0	0	0	0	1	0	0	0
3905:	0	0	0	1	0	0	0	0
3913:	0	1	0	2	1	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	0	1	0	0	0	1	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	1	0	1	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	1	0	0	0	0
3985:	0	0	0	0	1	0	0	0
3993:	0	0	0	0	0	1	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	1	0
4017:	1	0	0	0	0	0	0	0
4025:	1	0	0	0	0	2	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	0	1	0	0	0	0	1	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	1	0	0	0	0	0	0	0
4081:	0	1	0	0	0	0	0	0
4089:	0	0	0	1	0	0	0	0

0000026402.CNF



00346

Apex-Gamma

Analysis Report for 1508002-04
FEEBRIS1D-8 075-076

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-04
Sample Description	: FEEBRIS1D-8 075-076
Sample Type	: SOIL
Sample Size	: 3.257E+02 grams
Facility	: Countroom
Sample Taken On	: 7/29/2015 10:34:45AM
Acquisition Started	: 8/25/2015 4:24:30PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26411

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 5:24:35PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.55	46.91	0.0000	0.00
2	74.94	75.28	0.0000	0.00
3	77.41	77.75	0.0000	0.00
4	87.80	88.13	0.0000	0.00
5	186.50	186.80	0.0000	0.00
6	238.56	238.85	0.0000	0.00
7	241.87	242.15	0.0000	0.00
8	272.19	272.46	0.0000	0.00
9	295.26	295.53	0.0000	0.00
10	338.53	338.79	0.0000	0.00
11	351.99	352.24	0.0000	0.00
12	447.56	447.77	0.0000	0.00
13	454.54	454.76	0.0000	0.00
14	511.06	511.25	0.0000	0.00
15	582.80	582.97	0.0000	0.00
16	609.41	609.57	0.0000	0.00
17	627.70	627.85	0.0000	0.00
18	704.50	704.63	0.0000	0.00
19	724.20	724.32	0.0000	0.00
20	768.47	768.57	0.0000	0.00
21	795.18	795.28	0.0000	0.00
22	805.51	805.60	0.0000	0.00
23	911.32	911.37	0.0000	0.00
24	934.10	934.15	0.0000	0.00
25	964.72	964.76	0.0000	0.00
26	968.54	968.57	0.0000	0.00
27	1046.03	1046.04	0.0000	0.00
28	1075.82	1075.82	0.0000	0.00
29	1120.36	1120.34	0.0000	0.00
30	1237.77	1237.71	0.0000	0.00
31	1260.38	1260.31	0.0000	0.00
32	1286.48	1286.40	0.0000	0.00
33	1377.14	1377.03	0.0000	0.00
34	1385.66	1385.55	0.0000	0.00
35	1400.58	1400.46	0.0000	0.00
36	1407.82	1407.70	0.0000	0.00
37	1460.86	1460.72	0.0000	0.00
38	1479.35	1479.20	0.0000	0.00
39	1509.81	1509.65	0.0000	0.00
40	1526.05	1525.88	0.0000	0.00
41	1582.51	1582.32	0.0000	0.00
42	1589.60	1589.41	0.0000	0.00

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1661.23	1661.01	0.0000	0.00
44	1729.35	1729.10	0.0000	0.00
45	1764.53	1764.28	0.0000	0.00
46	1847.49	1847.20	0.0000	0.00
47	1865.14	1864.85	0.0000	0.00
48	1934.46	1934.14	0.0000	0.00
49	2004.40	2004.05	0.0000	0.00
50	2118.50	2118.11	0.0000	0.00
51	2183.95	2183.53	0.0000	0.00
52	2204.09	2203.67	0.0000	0.00
53	2366.31	2365.83	0.0000	0.00
54	2447.88	2447.37	0.0000	0.00
55	2614.19	2613.60	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.55	44	49	46.91	1.36E+02	66.85	7.88E+02	1.18
M	2	74.94	73	83	75.28	4.77E+02	90.99	1.16E+03	1.60
m	3	77.41	73	83	77.75	7.14E+02	99.61	1.14E+03	1.61
m	4	87.80	83	91	88.13	2.13E+02	63.81	8.42E+02	1.48
	5	186.50	184	191	186.80	3.32E+02	75.66	7.41E+02	1.89
M	6	238.56	235	245	238.85	3.89E+02	54.69	3.57E+02	1.68
m	7	241.87	235	245	242.15	3.72E+02	57.19	2.94E+02	1.68
	8	272.19	265	279	272.46	9.92E+01	88.26	7.72E+02	8.54
	9	295.26	291	298	295.53	6.94E+02	72.44	4.12E+02	1.95
	10	338.53	336	342	338.79	7.44E+01	43.83	2.97E+02	1.58
	11	351.99	348	356	352.24	1.19E+03	86.39	4.18E+02	1.60
	12	447.56	445	451	447.77	3.17E+01	32.50	1.71E+02	2.18
	13	454.54	451	458	454.76	3.09E+01	35.10	1.78E+02	3.07
	14	511.06	507	515	511.25	1.31E+02	39.71	1.63E+02	2.69
	15	582.80	577	588	582.97	1.62E+02	48.25	2.10E+02	1.90
	16	609.41	605	615	609.57	8.65E+02	68.86	1.71E+02	2.02
	17	627.70	625	630	627.85	2.25E+01	20.66	6.51E+01	2.67
	18	704.50	701	709	704.63	3.55E+01	33.71	1.53E+02	4.33
	19	724.20	717	731	724.32	6.67E+01	46.81	2.03E+02	9.30
	20	768.47	765	773	768.57	5.87E+01	35.56	1.61E+02	2.04
	21	795.18	793	798	795.28	1.98E+01	19.82	6.25E+01	1.34
	22	805.51	800	809	805.60	4.26E+01	27.66	8.48E+01	1.92
	23	911.32	907	915	911.37	7.92E+01	30.48	9.36E+01	1.90
	24	934.10	930	938	934.15	5.03E+01	28.94	9.53E+01	2.27
M	25	964.72	959	973	964.76	2.45E+01	21.27	7.25E+01	2.24
m	26	968.54	959	973	968.57	4.16E+01	26.15	6.33E+01	2.65
	27	1046.03	1043	1049	1046.04	1.69E+01	17.99	4.23E+01	3.42
	28	1075.82	1067	1084	1075.82	4.68E+01	34.09	8.24E+01	12.73
	29	1120.36	1116	1126	1120.34	1.69E+02	37.18	9.62E+01	2.40
	30	1237.77	1233	1242	1237.71	6.89E+01	31.83	1.06E+02	1.42
	31	1260.38	1251	1269	1260.31	3.35E+01	35.02	9.50E+01	13.21
	32	1286.48	1276	1297	1286.40	6.05E+01	35.14	7.30E+01	13.20
M	33	1377.14	1372	1391	1377.03	4.67E+01	20.20	3.35E+01	2.62
m	34	1385.66	1372	1391	1385.55	1.29E+01	17.44	5.01E+01	2.62
	35	1400.58	1396	1404	1400.46	2.88E+01	13.13	8.30E+00	4.22
	36	1407.82	1405	1412	1407.70	2.83E+01	18.97	4.34E+01	2.78
	37	1460.86	1454	1467	1460.72	2.23E+02	38.17	6.18E+01	2.38
	38	1479.35	1474	1483	1479.20	2.02E+01	17.03	2.97E+01	1.88
	39	1509.81	1505	1514	1509.65	2.32E+01	21.79	5.35E+01	2.03
	40	1526.05	1521	1529	1525.88	1.65E+01	16.42	3.10E+01	1.10

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1582.51	1579 -	1585	1582.32	1.12E+01	12.55	1.96E+01	1.91
42	1589.60	1585 -	1594	1589.41	2.14E+01	16.16	2.53E+01	6.82
43	1661.23	1658 -	1663	1661.01	7.70E+00	10.25	1.46E+01	2.13
44	1729.35	1725 -	1733	1729.10	2.20E+01	18.61	3.80E+01	2.51
45	1764.53	1760 -	1769	1764.28	1.39E+02	25.02	1.00E+01	2.14
46	1847.49	1843 -	1851	1847.20	1.60E+01	13.45	1.80E+01	1.45
47	1865.14	1862 -	1868	1864.85	5.50E+00	7.78	7.00E+00	1.45
48	1934.46	1931 -	1937	1934.14	7.00E+00	5.29	0.00E+00	1.98
49	2004.40	2000 -	2008	2004.05	8.64E+00	8.02	4.73E+00	3.79
50	2118.50	2113 -	2123	2118.11	2.26E+01	11.41	4.84E+00	1.94
51	2183.95	2180 -	2186	2183.53	4.33E+00	6.02	3.33E+00	1.64
52	2204.09	2200 -	2207	2203.67	3.64E+01	13.86	7.25E+00	2.15
53	2366.31	2362 -	2369	2365.83	7.95E+00	7.48	4.10E+00	5.25
54	2447.88	2444 -	2450	2447.37	9.90E+00	9.84	1.02E+01	2.21
55	2614.19	2610 -	2618	2613.60	4.80E+01	13.86	0.00E+00	3.13

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.55	44 -	49	1.36E+02	66.85	7.88E+02	5.15E+01
M	2	74.94	73 -	83	4.77E+02	90.99	1.16E+03	5.59E+01
m	3	77.41	73 -	83	7.14E+02	99.61	1.14E+03	5.56E+01
m	4	87.80	83 -	91	2.13E+02	63.81	8.42E+02	4.77E+01
	5	186.50	184 -	191	3.32E+02	75.66	7.41E+02	5.45E+01
M	6	238.56	235 -	245	3.89E+02	54.69	3.57E+02	3.11E+01
m	7	241.87	235 -	245	3.72E+02	57.19	2.94E+02	2.82E+01
	8	272.19	265 -	279	9.92E+01	88.26	7.72E+02	7.07E+01
	9	295.26	291 -	298	6.94E+02	72.44	4.12E+02	4.09E+01
	10	338.53	336 -	342	7.44E+01	43.83	2.97E+02	3.31E+01
	11	351.99	348 -	356	1.19E+03	86.39	4.18E+02	4.29E+01
	12	447.56	445 -	451	3.17E+01	32.50	1.71E+02	2.51E+01
	13	454.54	451 -	458	3.09E+01	35.10	1.78E+02	2.74E+01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	14	511.06	507 -	515	1.31E+02	39.71	1.63E+02	2.67E+01
	15	582.80	577 -	588	1.62E+02	48.25	2.10E+02	3.37E+01
	16	609.41	605 -	615	8.65E+02	68.86	1.71E+02	2.94E+01
	17	627.70	625 -	630	2.25E+01	20.66	6.51E+01	1.51E+01
	18	704.50	701 -	709	3.55E+01	33.71	1.53E+02	2.59E+01
	19	724.20	717 -	731	6.67E+01	46.81	2.03E+02	3.61E+01
	20	768.47	765 -	773	5.87E+01	35.56	1.61E+02	2.64E+01
	21	795.18	793 -	798	1.98E+01	19.82	6.25E+01	1.46E+01
	22	805.51	800 -	809	4.26E+01	27.66	8.48E+01	2.00E+01
	23	911.32	907 -	915	7.92E+01	30.48	9.36E+01	2.03E+01
	24	934.10	930 -	938	5.03E+01	28.94	9.53E+01	2.07E+01
M	25	964.72	959 -	973	2.45E+01	21.27	7.25E+01	1.40E+01
m	26	968.54	959 -	973	4.16E+01	26.15	6.33E+01	1.31E+01
	27	1046.03	1043 -	1049	1.69E+01	17.99	4.23E+01	1.32E+01
	28	1075.82	1067 -	1084	4.68E+01	34.09	8.24E+01	2.57E+01
	29	1120.36	1116 -	1126	1.69E+02	37.18	9.62E+01	2.19E+01
	30	1237.77	1233 -	1242	6.89E+01	31.83	1.06E+02	2.23E+01
	31	1260.38	1251 -	1269	3.35E+01	35.02	9.50E+01	2.72E+01
	32	1286.48	1276 -	1297	6.05E+01	35.14	7.30E+01	2.59E+01
M	33	1377.14	1372 -	1391	4.67E+01	20.20	3.35E+01	9.52E+00
m	34	1385.66	1372 -	1391	1.29E+01	17.44	5.01E+01	1.16E+01
	35	1400.58	1396 -	1404	2.88E+01	13.13	8.30E+00	6.21E+00
	36	1407.82	1405 -	1412	2.83E+01	18.97	4.34E+01	1.29E+01
	37	1460.86	1454 -	1467	2.23E+02	38.17	6.18E+01	1.95E+01
	38	1479.35	1474 -	1483	2.02E+01	17.03	2.97E+01	1.19E+01
	39	1509.81	1505 -	1514	2.32E+01	21.79	5.35E+01	1.61E+01
	40	1526.05	1521 -	1529	1.65E+01	16.42	3.10E+01	1.17E+01
	41	1582.51	1579 -	1585	1.12E+01	12.55	1.96E+01	8.73E+00
	42	1589.60	1585 -	1594	2.14E+01	16.16	2.53E+01	1.09E+01
	43	1661.23	1658 -	1663	7.70E+00	10.25	1.46E+01	7.08E+00
	44	1729.35	1725 -	1733	2.20E+01	18.61	3.80E+01	1.32E+01
	45	1764.53	1760 -	1769	1.39E+02	25.02	1.00E+01	6.88E+00
	46	1847.49	1843 -	1851	1.60E+01	13.45	1.80E+01	8.89E+00
	47	1865.14	1862 -	1868	5.50E+00	7.78	7.00E+00	5.10E+00
	48	1934.46	1931 -	1937	7.00E+00	5.29	0.00E+00	0.00E+00
	49	2004.40	2000 -	2008	8.64E+00	8.02	4.73E+00	4.48E+00
	50	2118.50	2113 -	2123	2.26E+01	11.41	4.84E+00	5.19E+00
	51	2183.95	2180 -	2186	4.33E+00	6.02	3.33E+00	3.58E+00
	52	2204.09	2200 -	2207	3.64E+01	13.86	7.25E+00	5.61E+00
	53	2366.31	2362 -	2369	7.95E+00	7.48	4.10E+00	4.04E+00
	54	2447.88	2444 -	2450	9.90E+00	9.84	1.02E+01	6.21E+00
	55	2614.19	2610 -	2618	4.80E+01	13.86	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.55	44 -	49	46.91	1.36E+02	66.85	7.88E+02	PB-210
M	2	74.94	73 -	83	75.28	4.77E+02	90.99	1.16E+03	AM-243
m	3	77.41	73 -	83	77.75	7.14E+02	99.61	1.14E+03	TI-44
m	4	87.80	83 -	91	88.13	2.13E+02	63.81	8.42E+02	SN-126 CD-109 LU-176
	5	186.50	184 -	191	186.80	3.32E+02	75.66	7.41E+02	RA-226
M	6	238.56	235 -	245	238.85	3.89E+02	54.69	3.57E+02	PB-212
m	7	241.87	235 -	245	242.15	3.72E+02	57.19	2.94E+02	RA-224
	8	272.19	265 -	279	272.46	9.92E+01	88.26	7.72E+02	LU-173
	9	295.26	291 -	298	295.53	6.94E+02	72.44	4.12E+02	PB-214
	10	338.53	336 -	342	338.79	7.44E+01	43.83	2.97E+02	AC-228
	11	351.99	348 -	356	352.24	1.19E+03	86.39	4.18E+02	PB-214
	12	447.56	445 -	451	447.77	3.17E+01	32.50	1.71E+02	.....
	13	454.54	451 -	458	454.76	3.09E+01	35.10	1.78E+02	PM-146
	14	511.06	507 -	515	511.25	1.31E+02	39.71	1.63E+02	.....
	15	582.80	577 -	588	582.97	1.62E+02	48.25	2.10E+02	TL-208
	16	609.41	605 -	615	609.57	8.65E+02	68.86	1.71E+02	BI-214
	17	627.70	625 -	630	627.85	2.25E+01	20.66	6.51E+01	.....
	18	704.50	701 -	709	704.63	3.55E+01	33.71	1.53E+02	.....
	19	724.20	717 -	731	724.32	6.67E+01	46.81	2.03E+02	ZR-95 EU-154
	20	768.47	765 -	773	768.57	5.87E+01	35.56	1.61E+02	.....
	21	795.18	793 -	798	795.28	1.98E+01	19.82	6.25E+01	CS-134
	22	805.51	800 -	809	805.60	4.26E+01	27.66	8.48E+01	.....
	23	911.32	907 -	915	911.37	7.92E+01	30.48	9.36E+01	AC-228 LU-172
	24	934.10	930 -	938	934.15	5.03E+01	28.94	9.53E+01	.....
M	25	964.72	959 -	973	964.76	2.45E+01	21.27	7.25E+01	EU-152
m	26	968.54	959 -	973	968.57	4.16E+01	26.15	6.33E+01	AC-228
	27	1046.03	1043 -	1049	1046.04	1.69E+01	17.99	4.23E+01	.....
	28	1075.82	1067 -	1084	1075.82	4.68E+01	34.09	8.24E+01	.....
	29	1120.36	1116 -	1126	1120.34	1.69E+02	37.18	9.62E+01	BI-214 SC-46 TA-182
	30	1237.77	1233 -	1242	1237.71	6.89E+01	31.83	1.06E+02	CO-56
	31	1260.38	1251 -	1269	1260.31	3.35E+01	35.02	9.50E+01	I-135
	32	1286.48	1276 -	1297	1286.40	6.05E+01	35.14	7.30E+01	.....

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	33	1377.14	1372 -	1391	1377.03	4.67E+01	20.20	3.35E+01	.....
m	34	1385.66	1372 -	1391	1385.55	1.29E+01	17.44	5.01E+01	.....
	35	1400.58	1396 -	1404	1400.46	2.88E+01	13.13	8.30E+00	.....
	36	1407.82	1405 -	1412	1407.70	2.83E+01	18.97	4.34E+01	EU-152
	37	1460.86	1454 -	1467	1460.72	2.23E+02	38.17	6.18E+01	K-40
	38	1479.35	1474 -	1483	1479.20	2.02E+01	17.03	2.97E+01	.....
	39	1509.81	1505 -	1514	1509.65	2.32E+01	21.79	5.35E+01	.....
	40	1526.05	1521 -	1529	1525.88	1.65E+01	16.42	3.10E+01	.....
	41	1582.51	1579 -	1585	1582.32	1.12E+01	12.55	1.96E+01	.....
	42	1589.60	1585 -	1594	1589.41	2.14E+01	16.16	2.53E+01	.....
	43	1661.23	1658 -	1663	1661.01	7.70E+00	10.25	1.46E+01	.....
	44	1729.35	1725 -	1733	1729.10	2.20E+01	18.61	3.80E+01	.....
	45	1764.53	1760 -	1769	1764.28	1.39E+02	25.02	1.00E+01	BI-214
	46	1847.49	1843 -	1851	1847.20	1.60E+01	13.45	1.80E+01	.....
	47	1865.14	1862 -	1868	1864.85	5.50E+00	7.78	7.00E+00	.....
	48	1934.46	1931 -	1937	1934.14	7.00E+00	5.29	0.00E+00	.....
	49	2004.40	2000 -	2008	2004.05	8.64E+00	8.02	4.73E+00	.....
	50	2118.50	2113 -	2123	2118.11	2.26E+01	11.41	4.84E+00	.....
	51	2183.95	2180 -	2186	2183.53	4.33E+00	6.02	3.33E+00	.....
	52	2204.09	2200 -	2207	2203.67	3.64E+01	13.86	7.25E+00	BI-214
	53	2366.31	2362 -	2369	2365.83	7.95E+00	7.48	4.10E+00	.....
	54	2447.88	2444 -	2450	2447.37	9.90E+00	9.84	1.02E+01	.....
	55	2614.19	2610 -	2618	2613.60	4.80E+01	13.86	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.55	1.36E+02	66.85	1.68E-02	1.78E-03
M	2	74.94	4.77E+02	90.99	2.75E-02	2.30E-03
m	3	77.41	7.14E+02	99.61	2.78E-02	2.38E-03
m	4	87.80	2.13E+02	63.81	2.85E-02	2.73E-03
	5	186.50	3.32E+02	75.66	2.24E-02	2.02E-03
M	6	238.56	3.89E+02	54.69	1.92E-02	1.64E-03
m	7	241.87	3.72E+02	57.19	1.91E-02	1.61E-03

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	8	272.19	9.92E+01	88.26	1.76E-02	1.39E-03
	9	295.26	6.94E+02	72.44	1.67E-02	1.31E-03
	10	338.53	7.44E+01	43.83	1.52E-02	1.22E-03
	11	351.99	1.19E+03	86.39	1.48E-02	1.19E-03
	12	447.56	3.17E+01	32.50	1.24E-02	1.06E-03
	13	454.54	3.09E+01	35.10	1.23E-02	1.05E-03
	14	511.06	1.31E+02	39.71	1.12E-02	9.90E-04
	15	582.80	1.62E+02	48.25	1.02E-02	9.16E-04
	16	609.41	8.65E+02	68.86	9.83E-03	8.88E-04
	17	627.70	2.25E+01	20.66	9.60E-03	8.69E-04
	18	704.50	3.55E+01	33.71	8.77E-03	7.96E-04
	19	724.20	6.67E+01	46.81	8.58E-03	7.78E-04
	20	768.47	5.87E+01	35.56	8.19E-03	7.38E-04
	21	795.18	1.98E+01	19.82	7.97E-03	7.15E-04
	22	805.51	4.26E+01	27.66	7.89E-03	7.05E-04
	23	911.32	7.92E+01	30.48	7.15E-03	6.15E-04
	24	934.10	5.03E+01	28.94	7.01E-03	6.04E-04
M	25	964.72	2.45E+01	21.27	6.83E-03	5.88E-04
m	26	968.54	4.16E+01	26.15	6.81E-03	5.86E-04
	27	1046.03	1.69E+01	17.99	6.40E-03	5.45E-04
	28	1075.82	4.68E+01	34.09	6.26E-03	5.30E-04
	29	1120.36	1.69E+02	37.18	6.07E-03	5.07E-04
	30	1237.77	6.89E+01	31.83	5.62E-03	4.68E-04
	31	1260.38	3.35E+01	35.02	5.54E-03	4.64E-04
	32	1286.48	6.05E+01	35.14	5.45E-03	4.59E-04
M	33	1377.14	4.67E+01	20.20	5.19E-03	4.40E-04
m	34	1385.66	1.29E+01	17.44	5.16E-03	4.38E-04
	35	1400.58	2.88E+01	13.13	5.12E-03	4.34E-04
	36	1407.82	2.83E+01	18.97	5.10E-03	4.32E-04
	37	1460.86	2.23E+02	38.17	4.97E-03	4.19E-04
	38	1479.35	2.02E+01	17.03	4.93E-03	4.15E-04
	39	1509.81	2.32E+01	21.79	4.86E-03	4.07E-04
	40	1526.05	1.65E+01	16.42	4.82E-03	4.03E-04
	41	1582.51	1.12E+01	12.55	4.71E-03	3.89E-04
	42	1589.60	2.14E+01	16.16	4.69E-03	3.87E-04
	43	1661.23	7.70E+00	10.25	4.56E-03	3.69E-04
	44	1729.35	2.20E+01	18.61	4.45E-03	3.52E-04
	45	1764.53	1.39E+02	25.02	4.40E-03	3.44E-04
	46	1847.49	1.60E+01	13.45	4.28E-03	3.26E-04
	47	1865.14	5.50E+00	7.78	4.26E-03	3.26E-04
	48	1934.46	7.00E+00	5.29	4.18E-03	3.26E-04
	49	2004.40	8.64E+00	8.02	4.11E-03	3.26E-04
	50	2118.50	2.26E+01	11.41	4.01E-03	3.26E-04
	51	2183.95	4.33E+00	6.02	3.96E-03	3.26E-04
	52	2204.09	3.64E+01	13.86	3.95E-03	3.26E-04
	53	2366.31	7.95E+00	7.48	3.86E-03	3.26E-04
	54	2447.88	9.90E+00	9.84	3.83E-03	3.26E-04
	55	2614.19	4.80E+01	13.86	3.79E-03	3.26E-04

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.55	1.36E+02	66.85	4.02E+01	8.43E+00	9.60E+01	6.74E+01
M	2	74.94	4.77E+02	90.99			4.77E+02	9.10E+01
m	3	77.41	7.14E+02	99.61	1.60E+01	8.83E+00	6.98E+02	1.00E+02
m	4	87.80	2.13E+02	63.81			2.13E+02	6.38E+01
	5	186.50	3.32E+02	75.66	6.47E+01	7.53E+00	2.68E+02	7.60E+01
M	6	238.56	3.89E+02	54.69	1.73E+01	6.30E+00	3.72E+02	5.50E+01
m	7	241.87	3.72E+02	57.19			3.72E+02	5.72E+01
	8	272.19	9.92E+01	88.26			9.92E+01	8.83E+01
	9	295.26	6.94E+02	72.44	0.00E+00	0.00E+00	6.94E+02	7.24E+01
	10	338.53	7.44E+01	43.83			7.44E+01	4.38E+01
	11	351.99	1.19E+03	86.39	9.78E+00	4.40E+00	1.18E+03	8.65E+01
	12	447.56	3.17E+01	32.50			3.17E+01	3.25E+01
	13	454.54	3.09E+01	35.10			3.09E+01	3.51E+01
	14	511.06	1.31E+02	39.71	7.82E+01	5.46E+00	5.25E+01	4.01E+01
	15	582.80	1.62E+02	48.25	4.53E+00	3.34E+00	1.57E+02	4.84E+01
	16	609.41	8.65E+02	68.86	8.81E+00	3.15E+00	8.56E+02	6.89E+01
	17	627.70	2.25E+01	20.66			2.25E+01	2.07E+01
	18	704.50	3.55E+01	33.71			3.55E+01	3.37E+01
	19	724.20	6.67E+01	46.81			6.67E+01	4.68E+01
	20	768.47	5.87E+01	35.56			5.87E+01	3.56E+01
	21	795.18	1.98E+01	19.82			1.98E+01	1.98E+01
	22	805.51	4.26E+01	27.66			4.26E+01	2.77E+01
	23	911.32	7.92E+01	30.48	4.29E+00	2.56E+00	7.49E+01	3.06E+01
	24	934.10	5.03E+01	28.94			5.03E+01	2.89E+01
M	25	964.72	2.45E+01	21.27			2.45E+01	2.13E+01
m	26	968.54	4.16E+01	26.15			4.16E+01	2.62E+01
	27	1046.03	1.69E+01	17.99			1.69E+01	1.80E+01
	28	1075.82	4.68E+01	34.09			4.68E+01	3.41E+01
	29	1120.36	1.69E+02	37.18			1.69E+02	3.72E+01
	30	1237.77	6.89E+01	31.83			6.89E+01	3.18E+01
	31	1260.38	3.35E+01	35.02			3.35E+01	3.50E+01
	32	1286.48	6.05E+01	35.14			6.05E+01	3.51E+01
M	33	1377.14	4.67E+01	20.20			4.67E+01	2.02E+01
m	34	1385.66	1.29E+01	17.44			1.29E+01	1.74E+01
	35	1400.58	2.88E+01	13.13			2.88E+01	1.31E+01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
36	1407.82	2.83E+01	18.97			2.83E+01	1.90E+01
37	1460.86	2.23E+02	38.17	5.85E+00	2.19E+00	2.17E+02	3.82E+01
38	1479.35	2.02E+01	17.03			2.02E+01	1.70E+01
39	1509.81	2.32E+01	21.79			2.32E+01	2.18E+01
40	1526.05	1.65E+01	16.42			1.65E+01	1.64E+01
41	1582.51	1.12E+01	12.55			1.12E+01	1.25E+01
42	1589.60	2.14E+01	16.16			2.14E+01	1.62E+01
43	1661.23	7.70E+00	10.25			7.70E+00	1.02E+01
44	1729.35	2.20E+01	18.61			2.20E+01	1.86E+01
45	1764.53	1.39E+02	25.02			1.39E+02	2.50E+01
46	1847.49	1.60E+01	13.45			1.60E+01	1.35E+01
47	1865.14	5.50E+00	7.78			5.50E+00	7.78E+00
48	1934.46	7.00E+00	5.29			7.00E+00	5.29E+00
49	2004.40	8.64E+00	8.02			8.64E+00	8.02E+00
50	2118.50	2.26E+01	11.41			2.26E+01	1.14E+01
51	2183.95	4.33E+00	6.02			4.33E+00	6.02E+00
52	2204.09	3.64E+01	13.86	1.36E-01	1.12E+00	3.62E+01	1.39E+01
53	2366.31	7.95E+00	7.48			7.95E+00	7.48E+00
54	2447.88	9.90E+00	9.84			9.90E+00	9.84E+00
55	2614.19	4.80E+01	13.86	5.15E+00	1.50E+00	4.29E+01	1.39E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.55	1.36E+02	66.85	4.02E+01	8.43E+00	9.60E+01	6.74E+01
M	2	74.94	4.77E+02	90.99			4.77E+02	9.10E+01
m	3	77.41	7.14E+02	99.61	1.60E+01	8.83E+00	6.98E+02	1.00E+02
m	4	87.80	2.13E+02	63.81			2.13E+02	6.38E+01
	5	186.50	3.32E+02	75.66	6.47E+01	7.53E+00	2.68E+02	7.60E+01
M	6	238.56	3.89E+02	54.69	1.73E+01	6.30E+00	3.72E+02	5.50E+01
m	7	241.87	3.72E+02	57.19			3.72E+02	5.72E+01
	8	272.19	9.92E+01	88.26			9.92E+01	8.83E+01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	9	295.26	6.94E+02	72.44	0.00E+00	0.00E+00	6.94E+02	7.24E+01
	10	338.53	7.44E+01	43.83			7.44E+01	4.38E+01
	11	351.99	1.19E+03	86.39	9.78E+00	4.40E+00	1.18E+03	8.65E+01
	12	447.56	3.17E+01	32.50			3.17E+01	3.25E+01
	13	454.54	3.09E+01	35.10			3.09E+01	3.51E+01
	14	511.06	1.31E+02	39.71	7.82E+01	5.46E+00	5.25E+01	4.01E+01
	15	582.80	1.62E+02	48.25	4.53E+00	3.34E+00	1.57E+02	4.84E+01
	16	609.41	8.65E+02	68.86	8.81E+00	3.15E+00	8.56E+02	6.89E+01
	17	627.70	2.25E+01	20.66			2.25E+01	2.07E+01
	18	704.50	3.55E+01	33.71			3.55E+01	3.37E+01
	19	724.20	6.67E+01	46.81			6.67E+01	4.68E+01
	20	768.47	5.87E+01	35.56			5.87E+01	3.56E+01
	21	795.18	1.98E+01	19.82			1.98E+01	1.98E+01
	22	805.51	4.26E+01	27.66			4.26E+01	2.77E+01
	23	911.32	7.92E+01	30.48	4.29E+00	2.56E+00	7.49E+01	3.06E+01
	24	934.10	5.03E+01	28.94			5.03E+01	2.89E+01
M	25	964.72	2.45E+01	21.27			2.45E+01	2.13E+01
m	26	968.54	4.16E+01	26.15			4.16E+01	2.62E+01
	27	1046.03	1.69E+01	17.99			1.69E+01	1.80E+01
	28	1075.82	4.68E+01	34.09			4.68E+01	3.41E+01
	29	1120.36	1.69E+02	37.18			1.69E+02	3.72E+01
	30	1237.77	6.89E+01	31.83			6.89E+01	3.18E+01
	31	1260.38	3.35E+01	35.02			3.35E+01	3.50E+01
	32	1286.48	6.05E+01	35.14			6.05E+01	3.51E+01
M	33	1377.14	4.67E+01	20.20			4.67E+01	2.02E+01
m	34	1385.66	1.29E+01	17.44			1.29E+01	1.74E+01
	35	1400.58	2.88E+01	13.13			2.88E+01	1.31E+01
	36	1407.82	2.83E+01	18.97			2.83E+01	1.90E+01
	37	1460.86	2.23E+02	38.17	5.85E+00	2.19E+00	2.17E+02	3.82E+01
	38	1479.35	2.02E+01	17.03			2.02E+01	1.70E+01
	39	1509.81	2.32E+01	21.79			2.32E+01	2.18E+01
	40	1526.05	1.65E+01	16.42			1.65E+01	1.64E+01
	41	1582.51	1.12E+01	12.55			1.12E+01	1.25E+01
	42	1589.60	2.14E+01	16.16			2.14E+01	1.62E+01
	43	1661.23	7.70E+00	10.25			7.70E+00	1.02E+01
	44	1729.35	2.20E+01	18.61			2.20E+01	1.86E+01
	45	1764.53	1.39E+02	25.02			1.39E+02	2.50E+01
	46	1847.49	1.60E+01	13.45			1.60E+01	1.35E+01
	47	1865.14	5.50E+00	7.78			5.50E+00	7.78E+00
	48	1934.46	7.00E+00	5.29			7.00E+00	5.29E+00
	49	2004.40	8.64E+00	8.02			8.64E+00	8.02E+00
	50	2118.50	2.26E+01	11.41			2.26E+01	1.14E+01
	51	2183.95	4.33E+00	6.02			4.33E+00	6.02E+00
	52	2204.09	3.64E+01	13.86	1.36E-01	1.12E+00	3.62E+01	1.39E+01
	53	2366.31	7.95E+00	7.48			7.95E+00	7.48E+00
	54	2447.88	9.90E+00	9.84			9.90E+00	9.84E+00
	55	2614.19	4.80E+01	13.86	5.15E+00	1.50E+00	4.29E+01	1.39E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.000	1460.81	*	10.67	9.44E+00	1.85E+00
CD-109	0.991	88.03	*	3.72	4.82E+00	1.54E+00
SN-126	0.992	87.57	*	37.00	4.66E-01	1.46E-01
PM-146	0.386	453.90	*	39.94	1.47E-01	1.67E-01
		735.90		14.01		
		747.13		13.10		
LU-173	0.617	100.72		5.24		
		272.11	*	21.20	6.35E-01	5.67E-01
TL-208	0.865	583.14	*	30.22	1.18E+00	3.78E-01
		860.37		4.48		
		2614.66	*	35.85	7.26E-01	2.44E-01
PB-210	1.000	46.50	*	4.25	3.10E+00	2.20E+00
PB-212	0.893	238.63	*	44.60	9.99E-01	1.71E-01
		300.09		3.41		
BI-214	0.999	609.31	*	46.30	4.34E+00	5.25E-01
		1120.29	*	15.10	4.25E+00	1.00E+00
		1764.49	*	15.80	4.61E+00	9.05E-01
		2204.22	*	4.98	4.25E+00	1.67E+00
PB-214	0.999	295.21	*	19.19	4.99E+00	6.52E-01
		351.92	*	37.19	4.94E+00	5.40E-01
RA-224	0.882	240.98	*	3.95	1.14E+01	2.00E+00
RA-226	0.987	186.21	*	3.28	8.42E+00	1.56E+01
AC-228	0.978	338.32	*	11.40	9.92E-01	5.89E-01
		911.07	*	27.70	8.72E-01	3.64E-01
		969.11	*	16.60	8.48E-01	5.38E-01
AM-243	0.989	74.67	*	66.00	6.07E-01	1.26E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:35PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.41	1.93808E-01	7.17		
	12	447.56	8.79274E-03	51.33		
	14	511.06	1.45735E-02	38.20	Sum	
	17	627.70	6.24242E-03	45.98		
	18	704.50	9.86111E-03	47.48	Sum	
	19	724.20	1.85177E-02	35.11	Tol.	EU-154
	20	768.47	1.63139E-02	30.28	Sum	
	21	795.18	5.48747E-03	50.18	Sum	
	22	805.51	1.18350E-02	32.46		
	24	934.10	1.39824E-02	28.75	Sum	
M	25	964.72	6.80219E-03	43.43	Tol.	EU-152
	27	1046.03	4.68567E-03	53.31		
	28	1075.82	1.29956E-02	36.43		
	30	1237.77	1.91462E-02	23.09	Tol.	CO-56
	31	1260.38	9.30556E-03	52.27	Tol.	I-135
	32	1286.48	1.67998E-02	29.05		
M	33	1377.14	1.29588E-02	21.65		
m	34	1385.66	3.59151E-03	67.43		
	35	1400.58	8.01347E-03	22.76		
	36	1407.82	7.86111E-03	33.52	Tol.	EU-152
	38	1479.35	5.60317E-03	42.21		
	39	1509.81	6.45833E-03	46.87		
	40	1526.05	4.57899E-03	49.82		
	41	1582.51	3.10847E-03	56.07		
	42	1589.60	5.93546E-03	37.80		
	43	1661.23	2.13889E-03	66.54		
	44	1729.35	6.11450E-03	42.27	Sum	
	46	1847.49	4.45000E-03	41.99		
	47	1865.14	1.52778E-03	70.71		
	48	1934.46	1.94444E-03	37.80		
	49	2004.40	2.39899E-03	46.41		
	50	2118.50	6.27222E-03	25.27		
	51	2183.95	1.20370E-03	69.47		
	53	2366.31	2.20833E-03	47.06		
	54	2447.88	2.75000E-03	49.68		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.00	1460.81	*	10.67	9.44E+00	1.85E+00
CD-109	0.99	88.03	*	3.72	4.82E+00	1.54E+00
SN-126	0.99	87.57	*	37.00	4.66E-01	1.46E-01
PM-146	0.38	453.90	*	39.94	1.47E-01	1.67E-01
		735.90		14.01		
		747.13		13.10		
LU-173	0.61	100.72		5.24		
		272.11	*	21.20	6.35E-01	5.67E-01
TL-208	0.86	583.14	*	30.22	1.18E+00	3.78E-01
		860.37		4.48		
		2614.66	*	35.85	7.26E-01	2.44E-01
PB-210	1.00	46.50	*	4.25	3.10E+00	2.20E+00
PB-212	0.89	238.63	*	44.60	9.99E-01	1.71E-01
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	4.34E+00	5.25E-01
		1120.29	*	15.10	4.25E+00	1.00E+00
		1764.49	*	15.80	4.61E+00	9.05E-01
		2204.22	*	4.98	4.25E+00	1.67E+00
PB-214	0.99	295.21	*	19.19	4.99E+00	6.52E-01
		351.92	*	37.19	4.94E+00	5.40E-01
RA-224	0.88	240.98	*	3.95	1.14E+01	2.00E+00
RA-226	0.98	186.21	*	3.28	8.42E+00	1.56E+01
AC-228	0.97	338.32	*	11.40	9.92E-01	5.89E-01
		911.07	*	27.70	8.72E-01	3.64E-01
		969.11	*	16.60	8.48E-01	5.38E-01
AM-243	0.98	74.67	*	66.00	6.07E-01	1.26E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	1.000	9.44E+00	1.85E+00	
?	CD-109	0.991	4.82E+00	1.54E+00	
?	SN-126	0.992	4.66E-01	1.46E-01	
	PM-146	0.386	1.47E-01	1.67E-01	
	LU-173	0.617	6.35E-01	5.67E-01	
	TL-208	0.865	8.60E-01	2.05E-01	
	PB-210	1.000	3.10E+00	2.20E+00	
	PB-212	0.893	9.99E-01	1.71E-01	
	BI-214	0.999	4.37E+00	4.01E-01	
	PB-214	0.999	4.96E+00	4.16E-01	
	RA-224	0.882	1.14E+01	2.00E+00	
	RA-226	0.987	8.42E+00	1.56E+01	
	AC-228	0.978	8.91E-01	2.68E-01	
	AM-243	0.989	6.07E-01	1.26E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:35PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.41	1.93808E-01	7.17		
	12	447.56	8.79274E-03	51.33		
	14	511.06	1.45735E-02	38.20	Sum	
	17	627.70	6.24242E-03	45.98		
	18	704.50	9.86111E-03	47.48	Sum	
	19	724.20	1.85177E-02	35.11	Tol.	EU-154
	20	768.47	1.63139E-02	30.28	Sum	
	21	795.18	5.48747E-03	50.18	Sum	
	22	805.51	1.18350E-02	32.46		
	24	934.10	1.39824E-02	28.75	Sum	
M	25	964.72	6.80219E-03	43.43	Tol.	EU-152
	27	1046.03	4.68567E-03	53.31		
	28	1075.82	1.29956E-02	36.43		
	30	1237.77	1.91462E-02	23.09	Tol.	CO-56
	31	1260.38	9.30556E-03	52.27	Tol.	I-135
	32	1286.48	1.67998E-02	29.05		
M	33	1377.14	1.29588E-02	21.65		
m	34	1385.66	3.59151E-03	67.43		
	35	1400.58	8.01347E-03	22.76		
	36	1407.82	7.86111E-03	33.52	Tol.	EU-152
	38	1479.35	5.60317E-03	42.21		
	39	1509.81	6.45833E-03	46.87		
	40	1526.05	4.57899E-03	49.82		
	41	1582.51	3.10847E-03	56.07		
	42	1589.60	5.93546E-03	37.80		
	43	1661.23	2.13889E-03	66.54		
	44	1729.35	6.11450E-03	42.27	Sum	
	46	1847.49	4.45000E-03	41.99		
	47	1865.14	1.52778E-03	70.71		
	48	1934.46	1.94444E-03	37.80		
	49	2004.40	2.39899E-03	46.41		
	50	2118.50	6.27222E-03	25.27		
	51	2183.95	1.20370E-03	69.47		
	53	2366.31	2.20833E-03	47.06		

Analysis Report for 1508002-04

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
54	2447.88	2.75000E-03	49.68		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.37E-01	1.21E+00	1.21E+00
+	NA-22	1274.54		99.94	1.53E-04	1.01E-01	1.01E-01
+	NA-24	1368.53		99.99	2.72E+11	9.91E+11	1.50E+12
		2754.09		99.86	8.25E+10		9.91E+11
+	AL-26	1808.65		99.76	8.00E-03	5.74E-02	5.74E-02
+	K-40	1460.81	*	10.67	9.44E+00	1.86E+00	1.86E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.05E-01	1.10E-01	1.10E-01
		78.34		96.00	4.68E-01		1.46E-01
+	SC-46	889.25		99.98	5.31E-03	1.37E-01	1.37E-01
		1120.51		99.99	7.50E-01		3.21E-01
+	V-48	983.52		99.98	-1.95E-01	3.34E-01	3.34E-01
		1312.10		97.50	-5.75E-02		3.38E-01
+	CR-51	320.08		9.83	-3.08E-01	1.55E+00	1.55E+00
+	MN-54	834.83		99.97	-1.12E-02	1.20E-01	1.20E-01
+	CO-56	846.75		99.96	1.45E-02	1.46E-01	1.46E-01
		1037.75		14.03	-5.89E-02		1.05E+00
		1238.25		67.00	4.51E-01		3.87E-01
		1771.40		15.51	-1.44E-01		6.07E-01
		2598.48		16.90	-1.98E-01		3.36E-01
+	CO-57	122.06		85.51	-2.94E-02	8.64E-02	8.64E-02
		136.48		10.60	-3.64E-01		7.36E-01
+	CO-58	810.76		99.40	3.02E-02	1.27E-01	1.27E-01
+	FE-59	1099.22		56.50	5.56E-02	3.14E-01	3.14E-01
		1291.56		43.20	1.91E-01		4.59E-01
+	CO-60	1173.22		100.00	3.81E-02	9.83E-02	1.26E-01
		1332.49		100.00	-2.80E-02		9.83E-02
+	ZN-65	1115.52		50.75	-3.30E-02	3.05E-01	3.05E-01

Analysis Report for 1508002-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	GA-67	93.31		35.70	7.40E+01	8.59E+01	8.59E+01
		208.95		2.24	6.00E+02		1.17E+03
		300.22		16.00	-9.66E+00		1.65E+02
+	SE-75	121.11		16.70	9.08E-02	1.43E-01	4.91E-01
		136.00		59.20	-6.81E-03		1.43E-01
		264.65		59.80	7.97E-04		1.43E-01
		279.53		25.20	-1.11E-02		3.52E-01
		400.65		11.40	-2.12E-01		8.62E-01
+	RB-82	776.52		13.00	-2.93E-01	1.72E+00	1.72E+00
+	RB-83	520.41		46.00	1.02E-01	2.68E-01	2.68E-01
		529.64		30.30	1.03E-01		3.77E-01
		552.65		16.40	-2.93E-01		7.01E-01
+	KR-85	513.99		0.43	-1.30E-01	2.94E+01	2.94E+01
+	SR-85	513.99		99.27	-7.57E-04	1.71E-01	1.71E-01
+	Y-88	898.02		93.40	-1.20E-04	1.26E-01	1.46E-01
		1836.01		99.38	6.12E-02		1.26E-01
+	NB-93M	16.57		9.43	-1.12E+02	1.03E+02	1.03E+02
+	NB-94	702.63		100.00	3.02E-02	1.11E-01	1.24E-01
		871.10		100.00	8.90E-03		1.11E-01
+	NB-95	765.79		99.81	5.78E-03	2.49E-01	2.49E-01
+	NB-95M	235.69		25.00	-2.73E+02	6.86E+01	6.86E+01
+	ZR-95	724.18		43.70	-1.77E-01	2.34E-01	3.78E-01
		756.72		55.30	-7.13E-02		2.34E-01
+	MO-99	181.06		6.20	2.82E+02	7.58E+02	1.18E+03
		739.58		12.80	-3.29E+02		7.58E+02
		778.00		4.50	-1.03E+03		2.26E+03
+	RU-103	497.08		89.00	2.28E-02	1.64E-01	1.64E-01
+	RU-106	621.84		9.80	2.31E-01	1.02E+00	1.02E+00
+	AG-108M	433.93		89.90	1.07E-02	1.04E-01	1.04E-01
		614.37		90.40	5.36E-03		1.13E-01
		722.95		90.50	-1.10E-01		1.31E-01
+	CD-109	88.03	*	3.72	4.82E+00	3.80E+00	3.80E+00
+	AG-110M	657.75		93.14	1.64E-02	1.13E-01	1.13E-01
		677.61		10.53	3.32E-01		1.07E+00
		706.67		16.46	2.98E-01		7.96E-01
		763.93		21.98	2.88E-02		5.12E-01
		884.67		71.63	-8.90E-03		1.61E-01
		1384.27		23.94	1.54E-01		5.83E-01
+	CD-113M	263.70		0.02	-1.48E+01	3.10E+02	3.10E+02
+	SN-113	255.12		1.93	1.14E+00	1.51E-01	4.95E+00
		391.69		64.90	-7.65E-03		1.51E-01
+	TE123M	159.00		84.10	-1.09E-01	1.02E-01	1.02E-01
+	SB-124	602.71		97.87	1.08E-02	1.35E-01	1.35E-01
		645.85		7.26	2.71E-01		1.87E+00
		722.78		11.10	-1.23E+00		1.47E+00
		1691.02		49.00	7.14E-03		2.59E-01
+	I-125	35.49		6.49	3.25E+00	4.76E+00	4.76E+00
+	SB-125	176.33		6.89	1.34E-01	3.48E-01	1.13E+00

00365

Analysis Report for 1508002-04

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SB-125	427.89		29.33	3.12E-02	3.48E-01	3.48E-01
		463.38		10.35	4.38E-01		9.91E-01
		600.56		17.80	1.30E-01		5.92E-01
		635.90		11.32	5.08E-01		9.09E-01
+	SB-126	414.70		83.30	-1.88E-01	4.59E-01	5.32E-01
		666.33		99.60	4.84E-02		4.59E-01
		695.00		99.60	3.59E-02		4.89E-01
		720.50		53.80	6.43E-01		1.02E+00
+	SN-126	87.57	*	37.00	4.66E-01	3.66E-01	3.66E-01
+	SB-127	473.00		25.00	-5.12E+00	3.75E+01	4.67E+01
		685.20		35.70	5.36E+00		3.75E+01
		783.80		14.70	2.77E+01		1.12E+02
+	I-129	29.78		57.00	6.04E-02	7.28E-01	7.28E-01
		33.60		13.20	7.09E-01		2.04E+00
		39.58		7.52	6.79E-01		2.18E+00
+	I-131	284.30		6.05	1.51E+00	9.05E-01	1.38E+01
		364.48		81.20	-5.91E-02		9.05E-01
		636.97		7.26	-1.05E+00		1.43E+01
		722.89		1.80	-5.80E+01		6.93E+01
+	TE-132	49.72		13.10	3.50E+00	2.97E+01	2.82E+02
		228.16		88.00	5.48E+00		2.97E+01
+	BA-133	81.00		33.00	-1.23E+00	1.53E-01	2.74E-01
		302.84		17.80	-3.35E-02		4.31E-01
		356.01		60.00	1.62E-02		1.53E-01
+	I-133	529.87		86.30	8.55E+07	3.14E+08	3.14E+08
+	XE-133	81.00		38.00	-3.91E+01	8.72E+00	8.72E+00
+	CS-134	563.23		8.38	5.95E-02	1.29E-01	1.20E+00
		569.32		15.43	-8.82E-02		6.67E-01
		604.70		97.60	1.34E-02		1.32E-01
		795.84		85.40	4.56E-02		1.29E-01
		801.93		8.73	-8.15E-01		1.19E+00
+	CS-135	268.24		16.00	2.41E-01	5.41E-01	5.41E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	3.18E+00	4.23E-01	4.42E+00
		163.89		4.61	2.05E+00		7.12E+00
		176.55		13.56	2.82E-01		2.37E+00
		273.65		12.66	-8.23E-01		2.75E+00
		340.57		48.50	4.42E-01		8.19E-01
		818.50		99.70	9.08E-02		4.23E-01
		1048.07		79.60	1.99E-02		6.19E-01
		1235.34		19.70	2.93E+00		4.10E+00
+	CS-137	661.65		85.12	-1.55E-02	1.18E-01	1.18E-01
+	LA-138	788.74		34.00	1.28E-01	1.31E-01	3.47E-01
		1435.80		66.00	-3.73E-02		1.31E-01
+	CE-139	165.85		80.35	-6.58E-02	1.04E-01	1.04E-01
+	BA-140	162.64		6.70	6.03E+00	1.61E+00	5.19E+00
		304.84		4.50	-8.60E-01		7.14E+00

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-140	423.70		3.20	-3.51E+00	1.61E+00	1.36E+01
		437.55		2.00	-3.29E+00		2.03E+01
		537.32		25.00	2.19E-01		1.61E+00
+	LA-140	328.77		20.50	6.57E-01	5.87E-01	1.84E+00
		487.03		45.50	6.11E-01		9.20E-01
		815.85		23.50	-1.07E+00		1.77E+00
		1596.49		95.49	1.51E-02		5.87E-01
+	CE-141	145.44		48.40	1.34E-01	2.93E-01	2.93E-01
+	CE-143	57.36		11.80	-3.88E+05	4.05E+05	7.42E+05
		293.26		42.00	1.89E+06		4.05E+05
		664.55		5.20	1.90E+05		1.78E+06
+	CE-144	133.54		10.80	-3.60E-01	7.07E-01	7.07E-01
+	PM-144	476.78		42.00	-2.89E-03	1.03E-01	2.18E-01
		618.01		98.60	1.52E-02		1.03E-01
		696.49		99.49	1.78E-02		1.16E-01
+	PM-145	36.85		21.70	-6.77E-01	4.85E-01	9.10E-01
		37.36		39.70	2.95E-02		4.85E-01
		42.30		15.10	-4.11E-01		9.20E-01
		72.40		2.31	-2.38E-01		5.09E+00
+	PM-146	453.90	*	39.94	1.47E-01	2.73E-01	2.73E-01
		735.90		14.01	3.52E-01		7.77E-01
		747.13		13.10	1.70E-01		8.83E-01
+	ND-147	91.11		28.90	6.86E-01	1.96E+00	1.96E+00
		531.02		13.10	-6.04E-01		3.73E+00
+	PM-149	285.90		3.10	-8.01E+02	1.30E+04	1.30E+04
+	EU-152	121.78		20.50	-1.15E-01	3.37E-01	3.37E-01
		244.69		5.40	4.11E-01		1.91E+00
		344.27		19.13	-3.38E-03		4.38E-01
		778.89		9.20	-6.32E-01		1.14E+00
		964.01		10.40	-6.61E-01		1.24E+00
		1085.78		7.22	1.29E-01		1.39E+00
		1112.02		9.60	-7.28E-02		1.15E+00
		1407.95		14.94	6.53E-01		1.03E+00
+	GD-153	97.43		31.30	4.44E-02	2.60E-01	2.60E-01
		103.18		22.20	-1.18E-01		3.27E-01
+	EU-154	123.07		40.50	2.73E-02	1.72E-01	1.72E-01
		723.30		19.70	-5.08E-01		6.07E-01
		873.19		11.50	2.33E-01		9.34E-01
		996.32		10.30	-9.78E-01		8.94E-01
		1004.76		17.90	1.81E-01		7.41E-01
		1274.45		35.50	4.25E-04		2.80E-01
+	EU-155	86.50		30.90	-3.12E-02	3.35E-01	3.41E-01
		105.30		20.70	-1.75E-02		3.35E-01
+	EU-156	811.77		10.40	9.86E-01	3.15E+00	3.15E+00
		1153.47		7.20	4.54E+00		7.31E+00
		1230.71		8.90	-4.78E-01		5.06E+00
+	HO-166M	184.41		72.60	3.33E-01	1.53E-01	1.53E-01
		280.45		29.60	3.02E-02		2.50E-01
		410.94		11.10	-3.20E-01		8.86E-01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	711.69		54.10	5.65E-02	1.53E-01	1.88E-01
+	TM-171	66.72		0.14	-8.85E+01	7.67E+01	7.67E+01
+	HF-172	81.75		4.52	-2.12E+00	6.09E-01	2.05E+00
		125.81		11.30	-3.79E-01		6.09E-01
+	LU-172	181.53		20.60	2.74E+00	3.22E+00	6.10E+00
		810.06		16.63	2.88E+00		1.05E+01
		912.12		15.25	3.04E+01		1.88E+01
		1093.66		62.50	1.18E+00		3.22E+00
+	LU-173	100.72		5.24	2.01E-02	9.23E-01	1.38E+00
		272.11	*	21.20	6.35E-01		9.23E-01
+	HF-175	343.40		84.00	7.18E-03	1.28E-01	1.28E-01
+	LU-176	88.34		13.30	1.86E+00	7.74E-02	8.18E-01
		201.83		86.00	-2.74E-02		9.47E-02
		306.78		94.00	-2.96E-02		7.74E-02
+	TA-182	67.75		41.20	2.83E-01	2.96E-01	2.96E-01
		1121.30		34.90	2.03E+00		8.72E-01
		1189.05		16.23	-1.23E-01		9.29E-01
		1221.41		26.98	8.93E-02		5.57E-01
		1231.02		11.44	-1.26E-01		1.34E+00
+	IR-192	308.46		29.68	1.76E-01	2.50E-01	3.30E-01
		468.07		48.10	-7.31E-02		2.50E-01
+	HG-203	279.19		77.30	6.05E-03	1.45E-01	1.45E-01
+	BI-207	569.67		97.72	-8.69E-03	1.02E-01	1.02E-01
		1063.62		74.90	4.39E-02		1.55E-01
+	TL-208	583.14	*	30.22	1.18E+00	1.79E-01	5.30E-01
		860.37		4.48	2.07E+00		2.66E+00
		2614.66	*	35.85	7.26E-01		1.79E-01
+	BI-210M	262.00		45.00	-5.12E-02	1.59E-01	1.59E-01
		300.00		23.00	-2.04E-02		3.50E-01
+	PB-210	46.50	*	4.25	3.10E+00	3.51E+00	3.51E+00
+	PB-211	404.84		2.90	1.08E+00	3.18E+00	3.18E+00
		831.96		2.90	-1.87E-02		3.94E+00
+	BI-212	727.17		11.80	5.03E-01	1.04E+00	1.04E+00
		1620.62		2.75	3.74E+00		5.02E+00
+	PB-212	238.63	*	44.60	9.99E-01	3.13E-01	3.13E-01
		300.09		3.41	-1.38E-01		2.36E+00
+	BI-214	609.31	*	46.30	4.34E+00	3.17E-01	3.17E-01
		1120.29	*	15.10	4.25E+00		1.17E+00
		1764.49	*	15.80	4.61E+00		5.47E-01
		2204.22	*	4.98	4.25E+00		1.66E+00
+	PB-214	295.21	*	19.19	4.99E+00	3.75E-01	6.08E-01
		351.92	*	37.19	4.94E+00		3.75E-01
+	RN-219	401.80		6.50	2.76E-01	1.35E+00	1.35E+00
+	RA-223	323.87		3.88	-4.53E-01	2.00E+00	2.00E+00
+	RA-224	240.98	*	3.95	1.14E+01	3.48E+00	3.48E+00
+	RA-225	40.00		31.00	5.75E-01	1.85E+00	1.85E+00
+	RA-226	186.21	*	3.28	8.42E+00	3.63E+00	3.63E+00
+	TH-227	50.10		8.40	1.63E-02	7.96E-01	1.31E+00

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TH-227	236.00		11.50	-3.17E+00	7.96E-01	7.96E-01
		256.20		6.30	-1.80E-01		1.27E+00
+	AC-228	338.32	*	11.40	9.92E-01	5.15E-01	9.19E-01
		911.07	*	27.70	8.72E-01		5.15E-01
		969.11	*	16.60	8.48E-01		1.19E+00
+	TH-230	48.44		16.90	1.03E-01	7.86E-01	7.86E-01
		62.85		4.60	2.31E+00		2.36E+00
		67.67		0.37	2.68E+01		2.80E+01
+	PA-231	283.67		1.60	9.09E-01	3.32E+00	4.97E+00
		302.67		2.30	-2.58E-01		3.32E+00
+	TH-231	25.64		14.70	-8.48E+00	1.50E+00	6.82E+00
		84.21		6.40	-3.28E+00		1.50E+00
+	PA-233	311.98		38.60	-1.36E-01	3.80E-01	3.80E-01
+	PA-234	131.20		20.40	-1.01E-01	3.54E-01	3.54E-01
		733.99		8.80	4.69E-02		1.17E+00
		946.00		12.00	-2.70E-01		7.57E-01
+	PA-234M	1001.03		0.92	-5.75E+00	1.27E+01	1.27E+01
+	TH-234	63.29		3.80	1.10E+00	2.87E+00	2.87E+00
+	U-235	143.76		10.50	2.31E-01	7.58E-01	7.58E-01
		163.35		4.70	4.77E-01		1.66E+00
		205.31		4.70	-7.31E-01		1.69E+00
+	NP-237	86.50		12.60	-7.58E-02	8.27E-01	8.27E-01
+	NP-239	106.10		22.70	-4.84E+01	9.24E+02	9.24E+02
		228.18		10.70	4.17E+02		2.26E+03
		277.60		14.10	-1.80E+02		1.64E+03
+	AM-241	59.54		35.90	-2.57E-01	2.61E-01	2.61E-01
+	AM-243	74.67	*	66.00	6.07E-01	2.69E-01	2.69E-01
+	CM-243	209.75		3.29	7.32E-01	5.42E-01	2.37E+00
		228.14		10.60	1.38E-01		7.47E-01
		277.60		14.00	-5.93E-02		5.42E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.21E+00	1.21E+00	1.37E-01	5.68E-01
	NA-22	1274.54		99.94	1.01E-01	1.01E-01	1.53E-04	4.46E-02
	NA-24	1368.53		99.99	1.50E+12	9.91E+11	2.72E+11	6.68E+11
		2754.09		99.86	9.91E+11		8.25E+10	3.84E+11
	AL-26	1808.65		99.76	5.74E-02	5.74E-02	8.00E-03	2.15E-02
+	K-40	1460.81	*	10.67	1.86E+00	1.86E+00	9.44E+00	8.70E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	1.10E-01	1.10E-01	1.05E-01	5.36E-02
		78.34		96.00	1.46E-01		4.68E-01	7.18E-02
	SC-46	889.25		99.98	1.37E-01	1.37E-01	5.31E-03	6.32E-02
		1120.51		99.99	3.21E-01		7.50E-01	1.54E-01
	V-48	983.52		99.98	3.34E-01	3.34E-01	-1.95E-01	1.52E-01
		1312.10		97.50	3.38E-01		-5.75E-02	1.49E-01
	CR-51	320.08		9.83	1.55E+00	1.55E+00	-3.08E-01	7.36E-01
	MN-54	834.83		99.97	1.20E-01	1.20E-01	-1.12E-02	5.56E-02
	CO-56	846.75		99.96	1.46E-01	1.46E-01	1.45E-02	6.79E-02
		1037.75		14.03	1.05E+00		-5.89E-02	4.83E-01
		1238.25		67.00	3.87E-01		4.51E-01	1.83E-01
		1771.40		15.51	6.07E-01		-1.44E-01	2.45E-01
		2598.48		16.90	3.36E-01		-1.98E-01	1.06E-01
	CO-57	122.06		85.51	8.64E-02	8.64E-02	-2.94E-02	4.17E-02
		136.48		10.60	7.36E-01		-3.64E-01	3.56E-01
	CO-58	810.76		99.40	1.27E-01	1.27E-01	3.02E-02	5.82E-02
	FE-59	1099.22		56.50	3.14E-01	3.14E-01	5.56E-02	1.43E-01
		1291.56		43.20	4.59E-01		1.91E-01	2.09E-01
	CO-60	1173.22		100.00	1.26E-01	9.83E-02	3.81E-02	5.78E-02
		1332.49		100.00	9.83E-02		-2.80E-02	4.32E-02
	ZN-65	1115.52		50.75	3.05E-01	3.05E-01	-3.30E-02	1.42E-01
	GA-67	93.31		35.70	8.59E+01	8.59E+01	7.40E+01	4.19E+01
		208.95		2.24	1.17E+03		6.00E+02	5.62E+02
		300.22		16.00	1.65E+02		-9.66E+00	7.87E+01
	SE-75	121.11		16.70	4.91E-01	1.43E-01	9.08E-02	2.38E-01
		136.00		59.20	1.43E-01		-6.81E-03	6.90E-02
		264.65		59.80	1.43E-01		7.97E-04	6.82E-02
		279.53		25.20	3.52E-01		-1.11E-02	1.68E-01
		400.65		11.40	8.62E-01		-2.12E-01	4.07E-01
	RB-82	776.52		13.00	1.72E+00	1.72E+00	-2.93E-01	7.96E-01
	RB-83	520.41		46.00	2.68E-01	2.68E-01	1.02E-01	1.26E-01
		529.64		30.30	3.77E-01		1.03E-01	1.77E-01
		552.65		16.40	7.01E-01		-2.93E-01	3.28E-01
	KR-85	513.99		0.43	2.94E+01	2.94E+01	-1.30E-01	1.40E+01
	SR-85	513.99		99.27	1.71E-01	1.71E-01	-7.57E-04	8.17E-02
	Y-88	898.02		93.40	1.46E-01	1.26E-01	-1.20E-04	6.77E-02
		1836.01		99.38	1.26E-01		6.12E-02	5.40E-02
	NB-93M	16.57		9.43	1.03E+02	1.03E+02	-1.12E+02	4.76E+01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	1.24E-01	1.11E-01	3.02E-02	5.85E-02
		871.10		100.00	1.11E-01		8.90E-03	5.12E-02
	NB-95	765.79		99.81	2.49E-01	2.49E-01	5.78E-03	1.18E-01
	NB-95M	235.69		25.00	6.86E+01	6.86E+01	-2.73E+02	3.31E+01
	ZR-95	724.18		43.70	3.78E-01	2.34E-01	-1.77E-01	1.78E-01
		756.72		55.30	2.34E-01		-7.13E-02	1.08E-01
	MO-99	181.06		6.20	1.18E+03	7.58E+02	2.82E+02	5.71E+02
		739.58		12.80	7.58E+02		-3.29E+02	3.51E+02
		778.00		4.50	2.26E+03		-1.03E+03	1.05E+03
	RU-103	497.08		89.00	1.64E-01	1.64E-01	2.28E-02	7.73E-02
	RU-106	621.84		9.80	1.02E+00	1.02E+00	2.31E-01	4.76E-01
	AG-108M	433.93		89.90	1.04E-01	1.04E-01	1.07E-02	4.91E-02
		614.37		90.40	1.13E-01		5.36E-03	5.30E-02
		722.95		90.50	1.31E-01		-1.10E-01	6.17E-02
+	CD-109	88.03	*	3.72	3.80E+00	3.80E+00	4.82E+00	1.87E+00
	AG-110M	657.75		93.14	1.13E-01	1.13E-01	1.64E-02	5.28E-02
		677.61		10.53	1.07E+00		3.32E-01	5.01E-01
		706.67		16.46	7.96E-01		2.98E-01	3.74E-01
		763.93		21.98	5.12E-01		2.88E-02	2.37E-01
		884.67		71.63	1.61E-01		-8.90E-03	7.40E-02
		1384.27		23.94	5.83E-01		1.54E-01	2.65E-01
	CD-113M	263.70		0.02	3.10E+02	3.10E+02	-1.48E+01	1.48E+02
	SN-113	255.12		1.93	4.95E+00	1.51E-01	1.14E+00	2.37E+00
		391.69		64.90	1.51E-01		-7.65E-03	7.12E-02
	TE123M	159.00		84.10	1.02E-01	1.02E-01	-1.09E-01	4.94E-02
	SB-124	602.71		97.87	1.35E-01	1.35E-01	1.08E-02	6.33E-02
		645.85		7.26	1.87E+00		2.71E-01	8.74E-01
		722.78		11.10	1.47E+00		-1.23E+00	6.88E-01
		1691.02		49.00	2.59E-01		7.14E-03	1.10E-01
	I-125	35.49		6.49	4.76E+00	4.76E+00	3.25E+00	2.30E+00
	SB-125	176.33		6.89	1.13E+00	3.48E-01	1.34E-01	5.44E-01
		427.89		29.33	3.48E-01		3.12E-02	1.66E-01
		463.38		10.35	9.91E-01		4.38E-01	4.70E-01
		600.56		17.80	5.92E-01		1.30E-01	2.78E-01
		635.90		11.32	9.09E-01		5.08E-01	4.25E-01
	SB-126	414.70		83.30	5.32E-01	4.59E-01	-1.88E-01	2.53E-01
		666.33		99.60	4.59E-01		4.84E-02	2.14E-01
		695.00		99.60	4.89E-01		3.59E-02	2.28E-01
		720.50		53.80	1.02E+00		6.43E-01	4.81E-01
+	SN-126	87.57	*	37.00	3.66E-01	3.66E-01	4.66E-01	1.80E-01
	SB-127	473.00		25.00	4.67E+01	3.75E+01	-5.12E+00	2.19E+01
		685.20		35.70	3.75E+01		5.36E+00	1.74E+01
		783.80		14.70	1.12E+02		2.77E+01	5.24E+01
	I-129	29.78		57.00	7.28E-01	7.28E-01	6.04E-02	3.52E-01
		33.60		13.20	2.04E+00		7.09E-01	9.85E-01
		39.58		7.52	2.18E+00		6.79E-01	1.06E+00
	I-131	284.30		6.05	1.38E+01	9.05E-01	1.51E+00	6.61E+00
		364.48		81.20	9.05E-01		-5.91E-02	4.25E-01
		636.97		7.26	1.43E+01		-1.05E+00	6.68E+00
		722.89		1.80	6.93E+01		-5.80E+01	3.25E+01
	TE-132	49.72		13.10	2.82E+02	2.97E+01	3.50E+00	1.37E+02
		228.16		88.00	2.97E+01		5.48E+00	1.42E+01
	BA-133	81.00		33.00	2.74E-01	1.53E-01	-1.23E+00	1.34E-01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-133	302.84		17.80	4.31E-01	1.53E-01	-3.35E-02	2.05E-01
		356.01		60.00	1.53E-01		1.62E-02	7.28E-02
	I-133	529.87		86.30	3.14E+08	3.14E+08	8.55E+07	1.47E+08
	XE-133	81.00		38.00	8.72E+00	8.72E+00	-3.91E+01	4.25E+00
	CS-134	563.23		8.38	1.20E+00	1.29E-01	5.95E-02	5.66E-01
		569.32		15.43	6.67E-01		-8.82E-02	3.13E-01
		604.70		97.60	1.32E-01		1.34E-02	6.27E-02
		795.84		85.40	1.29E-01		4.56E-02	5.99E-02
		801.93		8.73	1.19E+00		-8.15E-01	5.51E-01
	CS-135	268.24		16.00	5.41E-01	5.41E-01	2.41E-01	2.59E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	4.42E+00	4.23E-01	3.18E+00	2.14E+00
		163.89		4.61	7.12E+00		2.05E+00	3.44E+00
		176.55		13.56	2.37E+00		2.82E-01	1.14E+00
		273.65		12.66	2.75E+00		-8.23E-01	1.31E+00
		340.57		48.50	8.19E-01		4.42E-01	3.91E-01
		818.50		99.70	4.23E-01		9.08E-02	1.95E-01
		1048.07		79.60	6.19E-01		1.99E-02	2.84E-01
		1235.34		19.70	4.10E+00		2.93E+00	1.93E+00
	CS-137	661.65		85.12	1.18E-01	1.18E-01	-1.55E-02	5.52E-02
	LA-138	788.74		34.00	3.47E-01	1.31E-01	1.28E-01	1.62E-01
		1435.80		66.00	1.31E-01		-3.73E-02	5.59E-02
	CE-139	165.85		80.35	1.04E-01	1.04E-01	-6.58E-02	5.01E-02
	BA-140	162.64		6.70	5.19E+00	1.61E+00	6.03E+00	2.51E+00
		304.84		4.50	7.14E+00		-8.60E-01	3.39E+00
		423.70		3.20	1.36E+01		-3.51E+00	6.46E+00
		437.55		2.00	2.03E+01		-3.29E+00	9.59E+00
		537.32		25.00	1.61E+00		2.19E-01	7.52E-01
	LA-140	328.77		20.50	1.84E+00	5.87E-01	6.57E-01	8.79E-01
		487.03		45.50	9.20E-01		6.11E-01	4.34E-01
		815.85		23.50	1.77E+00		-1.07E+00	8.10E-01
		1596.49		95.49	5.87E-01		1.51E-02	2.63E-01
	CE-141	145.44		48.40	2.93E-01	2.93E-01	1.34E-01	1.42E-01
	CE-143	57.36		11.80	7.42E+05	4.05E+05	-3.88E+05	3.60E+05
		293.26		42.00	4.05E+05		1.89E+06	1.98E+05
		664.55		5.20	1.78E+06		1.90E+05	8.29E+05
	CE-144	133.54		10.80	7.07E-01	7.07E-01	-3.60E-01	3.42E-01
	PM-144	476.78		42.00	2.18E-01	1.03E-01	-2.89E-03	1.02E-01
		618.01		98.60	1.03E-01		1.52E-02	4.82E-02
		696.49		99.49	1.16E-01		1.78E-02	5.40E-02
	PM-145	36.85		21.70	9.10E-01	4.85E-01	-6.77E-01	4.40E-01
		37.36		39.70	4.85E-01		2.95E-02	2.34E-01
		42.30		15.10	9.20E-01		-4.11E-01	4.45E-01
		72.40		2.31	5.09E+00		-2.38E-01	2.49E+00
+	PM-146	453.90	*	39.94	2.73E-01	2.73E-01	1.47E-01	1.30E-01
		735.90		14.01	7.77E-01		3.52E-01	3.62E-01
		747.13		13.10	8.83E-01		1.70E-01	4.13E-01
	ND-147	91.11		28.90	1.96E+00	1.96E+00	6.86E-01	9.58E-01
		531.02		13.10	3.73E+00		-6.04E-01	1.74E+00
	PM-149	285.90		3.10	1.30E+04	1.30E+04	-8.01E+02	6.21E+03
	EU-152	121.78		20.50	3.37E-01	3.37E-01	-1.15E-01	1.63E-01

00372

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	1.91E+00	3.37E-01	4.11E-01	9.23E-01
		344.27		19.13	4.38E-01		-3.38E-03	2.08E-01
		778.89		9.20	1.14E+00		-6.32E-01	5.26E-01
		964.01		10.40	1.24E+00		-6.61E-01	5.77E-01
		1085.78		7.22	1.39E+00		1.29E-01	6.23E-01
		1112.02		9.60	1.15E+00		-7.28E-02	5.20E-01
		1407.95		14.94	1.03E+00		6.53E-01	4.74E-01
	GD-153	97.43		31.30	2.60E-01	2.60E-01	4.44E-02	1.26E-01
		103.18		22.20	3.27E-01		-1.18E-01	1.58E-01
	EU-154	123.07		40.50	1.72E-01	1.72E-01	2.73E-02	8.29E-02
		723.30		19.70	6.07E-01		-5.08E-01	2.85E-01
		873.19		11.50	9.34E-01		2.33E-01	4.30E-01
		996.32		10.30	8.94E-01		-9.78E-01	4.01E-01
		1004.76		17.90	7.41E-01		1.81E-01	3.44E-01
		1274.45		35.50	2.80E-01		4.25E-04	1.24E-01
	EU-155	86.50		30.90	3.41E-01	3.35E-01	-3.12E-02	1.67E-01
		105.30		20.70	3.35E-01		-1.75E-02	1.62E-01
	EU-156	811.77		10.40	3.15E+00	3.15E+00	9.86E-01	1.44E+00
		1153.47		7.20	7.31E+00		4.54E+00	3.40E+00
		1230.71		8.90	5.06E+00		-4.78E-01	2.31E+00
	HO-166M	184.41		72.60	1.53E-01	1.53E-01	3.33E-01	7.46E-02
		280.45		29.60	2.50E-01		3.02E-02	1.19E-01
		410.94		11.10	8.86E-01		-3.20E-01	4.22E-01
		711.69		54.10	1.88E-01		5.65E-02	8.75E-02
	TM-171	66.72		0.14	7.67E+01	7.67E+01	-8.85E+01	3.75E+01
	HF-172	81.75		4.52	2.05E+00	6.09E-01	-2.12E+00	1.00E+00
		125.81		11.30	6.09E-01		-3.79E-01	2.94E-01
	LU-172	181.53		20.60	6.10E+00	3.22E+00	2.74E+00	2.94E+00
		810.06		16.63	1.05E+01		2.88E+00	4.87E+00
		912.12		15.25	1.88E+01		3.04E+01	8.90E+00
		1093.66		62.50	3.22E+00		1.18E+00	1.47E+00
+	LU-173	100.72		5.24	1.38E+00	9.23E-01	2.01E-02	6.69E-01
		272.11	*	21.20	9.23E-01		6.35E-01	4.53E-01
	HF-175	343.40		84.00	1.28E-01	1.28E-01	7.18E-03	6.07E-02
	LU-176	88.34		13.30	8.18E-01	7.74E-02	1.86E+00	4.01E-01
		201.83		86.00	9.47E-02		-2.74E-02	4.56E-02
		306.78		94.00	7.74E-02		-2.96E-02	3.66E-02
	TA-182	67.75		41.20	2.96E-01	2.96E-01	2.83E-01	1.45E-01
		1121.30		34.90	8.72E-01		2.03E+00	4.19E-01
		1189.05		16.23	9.29E-01		-1.23E-01	4.26E-01
		1221.41		26.98	5.57E-01		8.93E-02	2.55E-01
		1231.02		11.44	1.34E+00		-1.26E-01	6.12E-01
	IR-192	308.46		29.68	3.30E-01	2.50E-01	1.76E-01	1.56E-01
		468.07		48.10	2.50E-01		-7.31E-02	1.18E-01
	HG-203	279.19		77.30	1.45E-01	1.45E-01	6.05E-03	6.92E-02
	BI-207	569.67		97.72	1.02E-01	1.02E-01	-8.69E-03	4.78E-02
		1063.62		74.90	1.55E-01		4.39E-02	7.09E-02
+	TL-208	583.14	*	30.22	5.30E-01	1.79E-01	1.18E+00	2.55E-01
		860.37		4.48	2.66E+00		2.07E+00	1.24E+00
		2614.66	*	35.85	1.79E-01		7.26E-01	6.66E-02
	BI-210M	262.00		45.00	1.59E-01	1.59E-01	-5.12E-02	7.57E-02
		300.00		23.00	3.50E-01		-2.04E-02	1.67E-01
+	PB-210	46.50	*	4.25	3.51E+00	3.51E+00	3.10E+00	1.71E+00

Analysis Report for 1508002-04

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	3.18E+00	3.18E+00	1.08E+00	1.51E+00
		831.96		2.90	3.94E+00		-1.87E-02	1.83E+00
	BI-212	727.17		11.80	1.04E+00	1.04E+00	5.03E-01	4.87E-01
		1620.62		2.75	5.02E+00		3.74E+00	2.27E+00
+	PB-212	238.63	*	44.60	3.13E-01	3.13E-01	9.99E-01	1.53E-01
		300.09		3.41	2.36E+00		-1.38E-01	1.12E+00
+	BI-214	609.31	*	46.30	3.17E-01	3.17E-01	4.34E+00	1.52E-01
		1120.29	*	15.10	1.17E+00		4.25E+00	5.50E-01
		1764.49	*	15.80	5.47E-01		4.61E+00	2.28E-01
		2204.22	*	4.98	1.66E+00		4.25E+00	6.70E-01
+	PB-214	295.21	*	19.19	6.08E-01	3.75E-01	4.99E+00	2.94E-01
		351.92	*	37.19	3.75E-01		4.94E+00	1.82E-01
	RN-219	401.80		6.50	1.35E+00	1.35E+00	2.76E-01	6.41E-01
	RA-223	323.87		3.88	2.00E+00	2.00E+00	-4.53E-01	9.51E-01
+	RA-224	240.98	*	3.95	3.48E+00	3.48E+00	1.14E+01	1.70E+00
	RA-225	40.00		31.00	1.85E+00	1.85E+00	5.75E-01	8.94E-01
+	RA-226	186.21	*	3.28	3.63E+00	3.63E+00	8.42E+00	1.77E+00
	TH-227	50.10		8.40	1.31E+00	7.96E-01	1.63E-02	6.38E-01
		236.00		11.50	7.96E-01		-3.17E+00	3.84E-01
		256.20		6.30	1.27E+00		-1.80E-01	6.06E-01
+	AC-228	338.32	*	11.40	9.19E-01	5.15E-01	9.92E-01	4.41E-01
		911.07	*	27.70	5.15E-01		8.72E-01	2.42E-01
		969.11	*	16.60	1.19E+00		8.48E-01	5.66E-01
	TH-230	48.44		16.90	7.86E-01	7.86E-01	1.03E-01	3.83E-01
		62.85		4.60	2.36E+00		2.31E+00	1.15E+00
		67.67		0.37	2.80E+01		2.68E+01	1.37E+01
	PA-231	283.67		1.60	4.97E+00	3.32E+00	9.09E-01	2.37E+00
		302.67		2.30	3.32E+00		-2.58E-01	1.58E+00
	TH-231	25.64		14.70	6.82E+00	1.50E+00	-8.48E+00	3.31E+00
		84.21		6.40	1.50E+00		-3.28E+00	7.31E-01
	PA-233	311.98		38.60	3.80E-01	3.80E-01	-1.36E-01	1.80E-01
	PA-234	131.20		20.40	3.54E-01	3.54E-01	-1.01E-01	1.71E-01
		733.99		8.80	1.17E+00		4.69E-02	5.42E-01
		946.00		12.00	7.57E-01		-2.70E-01	3.41E-01
	PA-234M	1001.03		0.92	1.27E+01	1.27E+01	-5.75E+00	5.83E+00
	TH-234	63.29		3.80	2.87E+00	2.87E+00	1.10E+00	1.40E+00
	U-235	143.76		10.50	7.58E-01	7.58E-01	2.31E-01	3.67E-01
		163.35		4.70	1.66E+00		4.77E-01	8.01E-01
		205.31		4.70	1.69E+00		-7.31E-01	8.14E-01
	NP-237	86.50		12.60	8.27E-01	8.27E-01	-7.58E-02	4.05E-01
	NP-239	106.10		22.70	9.24E+02	9.24E+02	-4.84E+01	4.47E+02
		228.18		10.70	2.26E+03		4.17E+02	1.08E+03
		277.60		14.10	1.64E+03		-1.80E+02	7.82E+02
	AM-241	59.54		35.90	2.61E-01	2.61E-01	-2.57E-01	1.27E-01
+	AM-243	74.67	*	66.00	2.69E-01	2.69E-01	6.07E-01	1.33E-01
	CM-243	209.75		3.29	2.37E+00	5.42E-01	7.32E-01	1.14E+00
		228.14		10.60	7.47E-01		1.38E-01	3.59E-01
		277.60		14.00	5.42E-01		-5.93E-02	2.58E-01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-8 075-076

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	46	83	102	195	200	146
25:	62	61	53	66	56	52	54	53
33:	56	59	69	65	55	59	46	78
41:	53	68	56	68	54	82	182	86
49:	58	79	69	70	79	100	64	67
57:	79	77	75	77	99	73	113	203
65:	110	113	124	140	121	110	92	123
73:	111	137	379	323	404	526	133	118
81:	102	92	87	137	128	86	173	238
89:	108	158	127	107	195	130	87	70
97:	83	85	71	69	63	63	54	51
105:	55	71	66	63	68	58	60	64
113:	59	67	66	58	72	59	67	60
121:	59	55	57	55	60	51	48	50
129:	66	71	62	53	60	54	64	58
137:	69	45	58	75	61	63	64	87
145:	72	52	63	57	55	60	52	57
153:	66	54	64	68	48	53	64	48
161:	47	69	72	62	47	35	55	45
169:	50	59	54	49	45	46	48	49
177:	50	57	47	50	46	55	45	37
185:	56	173	206	58	51	66	56	44
193:	66	48	44	43	52	59	52	38
201:	48	56	62	40	54	49	41	43
209:	45	53	41	29	36	41	52	30
217:	37	48	32	42	35	37	41	32
225:	42	33	48	41	44	30	42	31
233:	29	46	32	45	54	77	270	97
241:	84	219	184	29	22	31	41	30
249:	25	38	21	35	34	29	36	41
257:	38	27	45	29	26	25	19	33
265:	25	27	32	33	28	48	49	37
273:	37	28	36	30	24	37	14	32
281:	26	27	30	31	25	34	28	24
289:	35	24	28	28	31	49	317	359
297:	67	21	30	34	31	23	22	24
305:	23	23	20	20	23	30	25	14
313:	14	24	26	28	29	22	24	21
321:	20	29	20	26	25	16	26	31
329:	28	25	31	26	27	30	17	22
337:	23	39	61	31	25	22	23	28
345:	19	27	26	21	30	30	132	708
353:	375	44	34	21	25	17	15	16
361:	25	16	12	10	22	11	23	8

369:	17	20	22	14	16	19	26	19

Sample Title: FEEBRIS1D-8 075-076

Channel								
377:	12	16	18	20	17	19	15	21
385:	22	22	23	18	23	19	18	21
393:	25	17	20	21	24	15	15	15
401:	20	24	25	25	24	23	22	14
409:	24	27	19	16	16	17	20	23
417:	14	20	15	23	19	21	23	16
425:	16	15	19	22	21	13	24	15
433:	18	12	11	18	11	13	14	18
441:	21	14	21	10	11	14	24	21
449:	17	16	14	13	18	19	22	18
457:	7	9	8	12	11	18	29	18
465:	12	12	16	12	19	16	10	10
473:	10	12	12	11	8	12	8	18
481:	15	11	12	16	13	12	18	12
489:	15	10	7	8	18	7	21	10
497:	11	13	9	12	10	9	15	12
505:	12	11	6	9	15	44	56	38
513:	20	21	3	16	6	10	12	22
521:	15	12	15	7	12	9	15	12
529:	7	11	10	14	8	7	10	10
537:	13	13	12	12	5	9	14	9
545:	15	12	9	18	13	9	12	9
553:	12	9	11	11	11	11	11	8
561:	7	12	13	14	12	15	9	14
569:	12	10	8	15	13	12	10	6
577:	10	7	10	20	20	22	73	50
585:	21	11	12	11	8	16	6	8
593:	13	10	10	17	10	16	11	8
601:	14	14	9	9	6	10	16	57
609:	356	391	68	14	13	14	6	10
617:	10	9	9	8	15	10	7	8
625:	7	7	14	13	10	4	4	11
633:	9	9	11	6	11	16	8	6
641:	6	14	10	9	8	9	8	14
649:	8	7	8	6	6	9	4	7
657:	11	15	10	6	9	9	8	11
665:	12	11	4	8	9	9	7	9
673:	6	7	12	8	5	12	8	14
681:	9	9	9	8	11	6	10	6
689:	5	5	7	9	10	11	9	7
697:	12	9	15	8	9	9	18	18
705:	14	16	13	9	6	11	6	10
713:	11	4	11	12	1	10	9	16
721:	19	11	11	6	8	9	22	19
729:	16	4	7	7	8	9	8	12
737:	6	13	7	9	3	11	5	9
745:	11	12	7	11	9	11	10	9
753:	8	4	10	7	6	3	9	8
761:	9	7	7	8	7	6	11	39
769:	33	18	9	8	8	12	10	7
777:	5	7	4	11	11	8	13	7
785:	13	14	7	14	6	12	7	8
793:	3	9	18	8	7	6	4	6

801:	4	5	8	9	12	19	10	7

Sample Title: FEEBRIS1D-8 075-076

Channel								
809:	5	2	13	4	9	2	5	2
817:	4	13	5	9	8	4	9	5
825:	3	12	10	6	12	9	8	7
833:	9	7	6	12	5	10	10	7
841:	10	3	6	13	5	9	9	8
849:	9	4	9	10	4	10	4	4
857:	6	5	9	15	11	4	10	5
865:	4	9	8	5	10	9	6	7
873:	8	5	6	5	3	5	11	6
881:	8	9	7	5	7	5	6	6
889:	7	6	8	9	4	10	4	9
897:	7	14	6	5	6	5	10	8
905:	8	8	4	6	7	15	44	30
913:	8	6	6	3	5	5	7	7
921:	4	7	7	7	6	6	9	13
929:	6	8	5	9	18	24	14	8
937:	6	6	2	5	7	5	3	6
945:	4	6	2	5	2	4	6	3
953:	7	7	2	5	6	6	6	4
961:	3	3	5	11	19	4	13	13
969:	24	12	6	8	3	3	4	8
977:	8	5	6	5	4	7	8	3
985:	5	2	5	9	8	5	9	4
993:	3	1	3	5	10	2	2	10
1001:	8	6	6	10	10	9	6	10
1009:	6	4	11	18	5	7	9	4
1017:	8	6	5	1	2	3	6	9
1025:	6	2	7	5	4	4	4	5
1033:	7	7	7	7	4	5	7	6
1041:	5	5	6	2	10	9	4	6
1049:	1	2	9	8	4	2	7	10
1057:	1	3	4	5	7	7	6	5
1065:	6	5	3	6	5	5	13	7
1073:	3	6	4	3	4	2	5	6
1081:	3	6	7	0	2	4	3	5
1089:	6	1	6	6	4	6	3	4
1097:	11	3	6	5	4	4	1	8
1105:	4	7	6	5	7	3	8	4
1113:	7	2	1	6	3	4	34	69
1121:	61	14	8	6	7	5	5	7
1129:	6	3	2	4	7	4	4	3
1137:	5	2	8	6	4	1	9	3
1145:	8	7	6	2	8	9	6	5
1153:	5	7	19	10	2	9	5	5
1161:	7	7	7	6	2	8	3	3
1169:	7	4	9	1	6	4	7	8
1177:	2	5	8	2	7	11	6	4
1185:	5	6	5	6	11	4	4	4
1193:	5	10	3	4	6	5	5	4
1201:	2	4	3	1	5	7	5	6
1209:	3	5	6	7	1	6	0	4
1217:	3	5	6	7	7	5	4	4
1225:	6	5	7	7	4	5	7	4

1233:	4	8	7	7	17	43	16	8

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Channel								
1241:	4	8	5	4	4	5	3	2
1249:	7	2	3	2	5	10	5	4
1257:	3	3	2	5	4	3	1	5
1265:	9	9	3	4	1	4	2	4
1273:	2	3	3	2	4	4	4	5
1281:	9	6	7	3	2	4	7	7
1289:	5	5	6	5	6	2	1	3
1297:	0	2	7	3	6	3	4	5
1305:	2	2	2	2	3	2	3	2
1313:	5	4	1	3	6	2	6	2
1321:	2	5	1	4	3	1	2	4
1329:	3	0	2	1	6	2	4	5
1337:	3	2	3	6	5	3	3	4
1345:	1	4	3	1	3	1	3	2
1353:	6	4	2	3	8	3	3	3
1361:	3	1	6	3	2	3	7	4
1369:	5	0	2	1	2	3	5	5
1377:	23	16	4	4	2	4	6	2
1385:	7	9	2	2	4	3	2	5
1393:	2	2	1	1	3	2	5	7
1401:	6	6	3	0	0	3	11	13
1409:	10	4	4	5	5	4	3	1
1417:	4	2	3	0	5	2	3	4
1425:	4	2	1	0	2	2	5	2
1433:	3	0	2	5	2	0	0	3
1441:	1	2	4	1	2	6	1	1
1449:	2	2	5	3	5	1	3	6
1457:	4	5	24	64	89	43	5	3
1465:	2	4	1	2	1	3	4	2
1473:	0	2	3	3	2	1	4	6
1481:	9	2	3	1	5	3	4	3
1489:	2	4	2	4	3	2	2	3
1497:	4	3	3	1	2	1	1	5
1505:	2	1	3	9	14	8	3	4
1513:	5	1	3	1	5	3	3	4
1521:	1	5	4	3	4	1	3	10
1529:	1	1	1	1	3	2	2	0
1537:	0	4	2	4	1	3	4	2
1545:	3	0	7	2	1	2	2	1
1553:	2	2	2	2	1	2	2	5
1561:	0	4	2	2	3	6	2	1
1569:	2	3	1	4	2	0	3	3
1577:	2	2	2	2	3	6	7	1
1585:	0	2	6	8	1	2	2	3
1593:	8	2	2	2	3	5	3	1
1601:	1	1	3	0	2	1	3	2
1609:	2	1	2	1	3	1	0	3
1617:	6	4	2	7	5	1	4	1
1625:	1	2	1	2	2	4	1	2
1633:	2	2	1	2	1	1	1	1
1641:	2	1	3	2	4	4	0	1
1649:	2	0	1	1	1	1	0	4
1657:	2	1	2	3	5	4	0	2

1665:	1	1	2	0	1	2	3	1

Sample Title: FEEBRIS1D-8 075-076

Channel								
1673:	2	0	1	2	1	2	2	3
1681:	0	0	2	1	2	3	0	2
1689:	0	3	2	3	1	0	2	1
1697:	1	1	0	1	3	1	1	2
1705:	1	2	2	1	2	1	0	1
1713:	1	2	0	1	2	2	1	0
1721:	1	2	1	4	2	3	3	8
1729:	12	10	2	1	0	3	2	0
1737:	1	0	0	2	1	1	2	1
1745:	1	1	0	2	2	0	3	1
1753:	0	0	1	1	0	0	1	0
1761:	3	5	20	58	43	10	2	2
1769:	1	0	1	0	1	1	0	2
1777:	0	2	2	1	0	1	1	2
1785:	0	1	0	2	0	1	2	0
1793:	0	0	4	1	2	2	0	0
1801:	0	2	0	0	0	1	0	0
1809:	0	1	1	0	1	1	0	0
1817:	1	0	0	1	2	0	1	1
1825:	1	2	2	0	1	3	0	1
1833:	2	4	1	1	1	4	0	1
1841:	0	1	0	0	1	3	11	5
1849:	3	1	1	2	0	0	0	0
1857:	0	1	2	0	1	0	1	2
1865:	4	1	1	0	1	2	3	2
1873:	0	2	3	0	1	0	1	1
1881:	0	0	1	2	0	0	1	0
1889:	0	0	0	0	1	1	1	2
1897:	1	1	0	0	1	2	0	1
1905:	1	1	0	0	2	1	1	0
1913:	1	1	1	0	1	2	1	1
1921:	0	0	0	2	2	2	2	1
1929:	1	0	0	0	2	3	1	1
1937:	0	0	1	1	1	1	0	1
1945:	0	3	1	2	0	2	0	3
1953:	0	1	1	0	1	2	1	1
1961:	1	1	0	1	1	1	1	1
1969:	1	1	0	0	2	0	3	2
1977:	1	2	1	0	0	1	0	1
1985:	2	0	0	1	0	0	1	1
1993:	2	1	1	0	1	2	0	0
2001:	0	2	1	3	3	1	1	0
2009:	1	1	1	0	1	0	0	0
2017:	1	0	0	1	0	1	0	1
2025:	1	0	3	0	2	2	1	2
2033:	0	0	0	0	0	0	0	0
2041:	1	0	0	0	0	1	0	0
2049:	0	0	0	2	2	1	1	0
2057:	0	3	1	1	0	1	1	1
2065:	0	1	0	0	0	0	0	1
2073:	0	0	1	3	1	2	0	1
2081:	1	1	0	2	0	2	1	1
2089:	1	0	1	0	1	0	0	1

2097:	0	1	1	0	0	1	2	1

Sample Title: FEEBRIS1D-8 075-076

Channel								
2105:	1	0	0	1	1	2	1	0
2113:	1	1	1	2	4	8	4	1
2121:	2	1	0	0	1	1	0	1
2129:	0	0	1	2	2	1	0	1
2137:	1	1	2	0	0	0	1	0
2145:	1	0	0	0	0	0	0	3
2153:	0	1	0	0	1	0	0	2
2161:	2	1	0	2	1	0	0	1
2169:	0	1	0	0	1	0	0	1
2177:	0	0	0	0	0	0	3	2
2185:	1	0	1	0	0	1	1	1
2193:	0	1	1	0	0	3	2	0
2201:	0	5	16	11	5	3	0	0
2209:	1	0	2	0	0	2	0	0
2217:	0	2	0	0	0	0	0	0
2225:	0	0	0	0	0	1	2	1
2233:	0	0	1	1	0	1	0	1
2241:	0	1	0	0	0	1	0	2
2249:	0	1	2	0	0	0	2	0
2257:	2	0	0	0	0	1	0	1
2265:	0	2	0	0	1	2	0	1
2273:	0	2	0	0	1	0	0	0
2281:	1	2	0	0	1	1	1	1
2289:	1	1	0	1	3	1	2	2
2297:	0	1	0	0	0	0	1	0
2305:	0	0	0	0	0	1	1	0
2313:	1	2	0	1	0	0	0	0
2321:	0	1	1	2	0	1	0	1
2329:	0	0	1	1	0	1	3	2
2337:	0	1	0	2	0	1	1	1
2345:	0	0	0	0	1	0	1	0
2353:	1	1	0	0	0	0	0	0
2361:	0	0	2	0	1	4	0	3
2369:	0	1	0	1	1	0	0	1
2377:	0	0	2	0	1	1	0	0
2385:	0	1	0	0	0	2	1	0
2393:	0	2	2	1	0	0	0	1
2401:	0	1	0	2	0	0	0	1
2409:	1	0	0	0	0	0	1	1
2417:	1	0	1	0	1	1	1	0
2425:	1	2	1	1	0	0	1	0
2433:	2	0	1	2	1	1	1	1
2441:	0	0	2	0	2	2	4	5
2449:	2	0	1	0	0	0	0	1
2457:	1	0	0	1	1	0	0	0
2465:	0	0	0	1	0	1	0	0
2473:	0	0	0	0	0	0	2	0
2481:	1	0	0	0	0	0	0	0
2489:	0	0	1	1	0	0	0	2
2497:	0	1	1	1	1	2	1	0
2505:	2	1	0	0	0	0	0	0
2513:	0	0	0	0	0	0	0	1
2521:	0	1	0	0	0	0	1	0

2529:	0	0	1	0	0	0	0	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
2537:	0	0	0	0	0	0	1	0
2545:	1	0	0	1	0	0	0	0
2553:	0	0	0	1	0	0	0	1
2561:	0	0	0	0	0	0	1	0
2569:	0	0	0	0	0	0	1	0
2577:	0	0	1	0	1	1	2	0
2585:	1	0	0	0	0	0	0	0
2593:	0	0	1	0	0	0	0	0
2601:	0	0	1	0	1	0	0	0
2609:	0	0	2	10	10	15	6	4
2617:	1	0	0	0	2	0	1	0
2625:	1	0	0	0	0	0	1	0
2633:	0	0	1	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	1	1	0	0	0	0	0
2657:	0	0	1	1	1	0	1	0
2665:	0	0	1	1	0	0	0	1
2673:	0	0	1	1	1	0	0	0
2681:	0	0	1	0	0	0	1	0
2689:	0	0	0	0	1	1	0	0
2697:	1	0	0	0	0	0	1	0
2705:	0	0	0	0	0	0	1	0
2713:	0	0	0	0	0	0	0	1
2721:	0	1	0	0	1	0	0	0
2729:	0	0	1	0	1	0	0	0
2737:	0	0	1	0	0	0	0	0
2745:	1	0	1	0	0	1	0	0
2753:	1	1	1	0	0	1	0	0
2761:	0	2	0	1	1	0	1	0
2769:	1	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	1	1
2785:	0	0	0	0	0	0	0	0
2793:	0	1	0	1	0	1	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	1	0	0	0
2833:	0	2	1	1	0	0	1	1
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	1	0	0	0	0
2857:	0	2	0	0	0	0	0	0
2865:	0	0	0	0	0	0	0	1
2873:	0	0	1	0	0	0	0	0
2881:	1	0	1	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	1	0	0	0	0
2905:	0	1	0	0	1	0	0	0
2913:	1	0	0	0	0	0	1	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	2	1	0	1	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	1	0	1	0	0	0	0	1

2961:	0	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
2969:	0	0	0	0	0	1	0	0
2977:	0	1	0	0	1	0	0	0
2985:	0	0	1	0	0	0	0	0
2993:	0	0	0	0	0	0	0	1
3001:	1	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	1	0	0	0	0	2
3025:	0	0	0	0	0	0	0	0
3033:	1	0	0	0	0	0	1	1
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	1	1	0	0	1	0	0	0
3065:	1	0	0	0	0	0	0	0
3073:	0	0	0	1	0	0	1	0
3081:	0	1	0	0	0	0	0	0
3089:	0	1	0	0	0	0	0	1
3097:	0	0	0	0	0	1	0	0
3105:	0	1	0	1	1	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	1	0	0	0	1	0
3129:	0	0	0	0	1	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	0	0	0	1	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	1	0	1	0	0	0
3177:	0	0	0	0	0	0	0	1
3185:	0	0	0	0	0	0	1	0
3193:	1	0	0	0	0	0	0	1
3201:	0	0	0	0	0	1	0	0
3209:	0	0	0	0	0	0	1	0
3217:	0	0	0	0	0	1	0	0
3225:	0	0	0	1	0	1	0	0
3233:	0	1	0	2	0	1	1	0
3241:	0	0	0	0	1	0	0	0
3249:	0	1	1	0	2	0	0	0
3257:	0	0	0	0	1	0	0	0
3265:	1	0	0	0	0	0	1	0
3273:	0	0	0	0	0	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	1
3297:	0	0	0	1	0	0	2	0
3305:	0	0	0	1	0	0	1	0
3313:	0	0	0	0	0	1	1	1
3321:	0	0	0	1	0	0	1	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	1	0
3345:	1	0	1	0	0	0	0	0
3353:	0	1	1	0	0	0	1	0
3361:	1	0	0	0	0	1	0	0
3369:	0	0	0	0	1	0	0	0
3377:	0	0	0	0	1	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-8 075-076

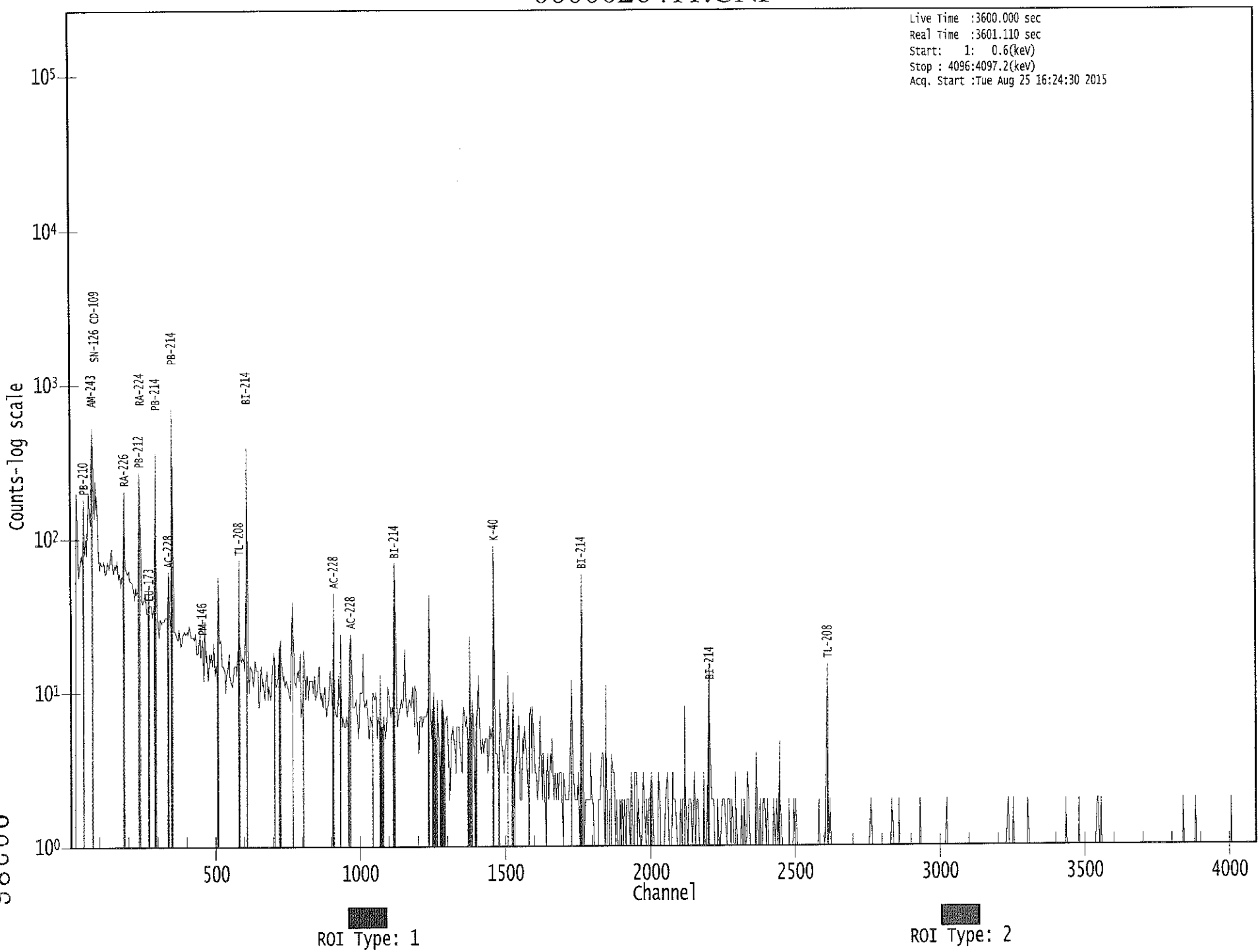
Channel								
3401:	0	0	0	0	0	1	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	1	1	0	0	0	0	0	0
3433:	0	0	2	0	0	1	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	1	0	0	0	0	0
3457:	0	0	0	1	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	0	0	0	0	0	0	2
3481:	0	1	1	0	0	0	0	0
3489:	0	0	0	1	0	1	0	0
3497:	0	0	0	1	0	0	0	1
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	1	0	0	0	1
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	0	0	0	0	1
3537:	1	0	0	0	0	0	2	0
3545:	0	0	2	1	0	0	0	0
3553:	2	0	0	2	0	0	0	0
3561:	0	0	0	0	0	1	0	0
3569:	0	1	0	1	0	1	0	0
3577:	0	0	0	1	0	0	0	0
3585:	0	1	0	0	0	0	0	0
3593:	0	0	0	1	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	1	1
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	1
3705:	1	0	0	0	1	0	0	0
3713:	0	0	0	0	0	1	1	0
3721:	0	0	0	0	0	1	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	1	0	0
3745:	0	0	0	0	0	0	0	0
3753:	1	0	0	0	0	0	0	0
3761:	0	0	1	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	1	0	1	0	0	0	0
3793:	0	0	1	0	0	0	0	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	1	0	0	0	0	0	1	0

3825:	1	1	0	0	1	0	0	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
3833:	0	0	0	0	0	0	2	0
3841:	0	0	1	0	1	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	1	0	0	0	0	0	1	0
3881:	0	1	2	0	0	0	0	0
3889:	0	0	1	0	0	0	1	0
3897:	0	0	1	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	1	0	0	0	0	0	0
3929:	0	0	0	0	1	0	1	0
3937:	0	0	0	1	0	1	0	0
3945:	0	0	0	0	1	0	0	0
3953:	1	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	1	0	0	1	0	0	0	0
3977:	0	0	1	0	0	0	1	0
3985:	0	0	0	1	0	1	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	2	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	1	0	0
4025:	0	1	0	0	0	0	1	0
4033:	0	0	0	1	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	0	0	0	0
4057:	0	1	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	1	0
4081:	0	0	1	0	0	0	0	0
4089:	0	0	0	0	0	0	0	1

0000026411.CNF



00386

Apex-Gamma

Analysis Report for 1508002-05
FEEBRIS1D-8 090-091

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-05
Sample Description	: FEEBRIS1D-8 090-091
Sample Type	: SOIL
Sample Size	: 6.520E+02 grams
Facility	: Countroom
Sample Taken On	: 7/29/2015 10:37:17AM
Acquisition Started	: 8/25/2015 4:16:22PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26408

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 5:16:26PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	32.11	32.22	0.0000	0.00
2	46.05	46.15	0.0000	0.00
3	53.24	53.34	0.0000	0.00
4	76.55	76.64	0.0000	0.00
5	88.14	88.22	0.0000	0.00
6	93.03	93.11	0.0000	0.00
7	99.22	99.29	0.0000	0.00
8	154.34	154.39	0.0000	0.00
9	209.76	209.78	0.0000	0.00
10	239.02	239.01	0.0000	0.00
11	242.09	242.09	0.0000	0.00
12	269.63	269.61	0.0000	0.00
13	295.26	295.23	0.0000	0.00
14	300.16	300.12	0.0000	0.00
15	338.74	338.68	0.0000	0.00
16	352.06	351.99	0.0000	0.00
17	387.80	387.72	0.0000	0.00
18	463.59	463.47	0.0000	0.00
19	511.05	510.90	0.0000	0.00
20	518.57	518.43	0.0000	0.00
21	526.39	526.23	0.0000	0.00
22	583.44	583.26	0.0000	0.00
23	590.99	590.81	0.0000	0.00
24	609.37	609.17	0.0000	0.00
25	727.41	727.16	0.0000	0.00
26	795.31	795.04	0.0000	0.00
27	861.55	861.25	0.0000	0.00
28	881.57	881.26	0.0000	0.00
29	911.90	911.58	0.0000	0.00
30	969.51	969.16	0.0000	0.00
31	1002.59	1002.23	0.0000	0.00
32	1120.64	1120.23	0.0000	0.00
33	1189.56	1189.13	0.0000	0.00
34	1205.78	1205.35	0.0000	0.00
35	1287.59	1287.12	0.0000	0.00
36	1461.23	1460.71	0.0000	0.00
37	1510.29	1509.75	0.0000	0.00
38	1558.95	1558.40	0.0000	0.00
39	1589.79	1589.23	0.0000	0.00
40	1729.00	1728.41	0.0000	0.00
41	1764.82	1764.21	0.0000	0.00
42	1848.13	1847.51	0.0000	0.00

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1927.82	1927.18	0.0000	0.00
44	1941.65	1941.00	0.0000	0.00
45	2103.47	2102.79	0.0000	0.00
46	2120.37	2119.69	0.0000	0.00
47	2204.19	2203.50	0.0000	0.00
48	2557.94	2557.20	0.0000	0.00
49	2614.49	2613.75	0.0000	0.00
50	3517.56	3516.83	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	32.11	29 -	35	32.22	8.77E+01	80.04	1.10E+03	1.23
	2	46.05	43 -	49	46.15	2.14E+02	73.95	8.18E+02	2.15
	3	53.24	51 -	55	53.34	4.34E+01	51.90	5.63E+02	1.79
	4	76.55	72 -	82	76.64	6.54E+02	126.01	1.75E+03	3.70
M	5	88.14	83 -	96	88.22	1.62E+02	66.90	7.51E+02	1.97
m	6	93.03	83 -	96	93.11	1.93E+02	67.73	6.41E+02	1.99
	7	99.22	97 -	102	99.29	7.70E+01	57.58	6.04E+02	2.93
	8	154.34	152 -	157	154.39	4.39E+01	50.54	4.78E+02	3.22
	9	209.76	207 -	213	209.78	4.47E+01	51.97	4.53E+02	1.46
M	10	239.02	235 -	246	239.01	4.44E+02	57.55	2.86E+02	1.55
m	11	242.09	235 -	246	242.09	8.17E+01	43.78	2.48E+02	1.56
	12	269.63	265 -	273	269.61	7.08E+01	50.59	3.48E+02	4.22
M	13	295.26	292 -	303	295.23	1.96E+02	39.53	1.66E+02	1.65
m	14	300.16	292 -	303	300.12	3.87E+01	31.41	1.73E+02	1.66
	15	338.74	334 -	344	338.68	9.82E+01	58.31	4.00E+02	1.89
	16	352.06	348 -	356	351.99	2.89E+02	52.59	2.49E+02	1.39
	17	387.80	385 -	391	387.72	2.81E+01	32.31	1.72E+02	3.64
	18	463.59	460 -	468	463.47	5.33E+01	34.71	1.51E+02	1.87
	19	511.05	507 -	514	510.90	1.20E+02	39.50	1.81E+02	1.87
	20	518.57	516 -	522	518.43	2.50E+01	26.84	1.08E+02	2.92
	21	526.39	523 -	531	526.23	3.36E+01	32.37	1.43E+02	4.57
	22	583.44	579 -	587	583.26	1.47E+02	38.67	1.39E+02	1.74
	23	590.99	588 -	594	590.81	1.98E+01	24.80	9.65E+01	1.26
	24	609.37	605 -	612	609.17	1.91E+02	38.83	1.24E+02	1.76
	25	727.41	724 -	730	727.16	4.80E+01	25.17	8.01E+01	2.62
	26	795.31	792 -	801	795.04	2.49E+01	29.70	1.16E+02	2.24
	27	861.55	858 -	866	861.25	3.92E+01	24.49	6.97E+01	1.98
	28	881.57	874 -	888	881.26	4.14E+01	33.03	9.72E+01	9.85
	29	911.90	906 -	917	911.58	1.20E+02	39.70	1.33E+02	2.11
	30	969.51	966 -	973	969.16	5.99E+01	31.75	1.12E+02	1.67
	31	1002.59	999 -	1007	1002.23	2.27E+01	27.16	1.01E+02	2.66
	32	1120.64	1116 -	1124	1120.23	3.82E+01	29.77	1.14E+02	1.54
	33	1189.56	1186 -	1192	1189.13	1.55E+01	20.21	6.30E+01	2.10
	34	1205.78	1193 -	1218	1205.35	7.33E+01	63.24	2.47E+02	23.24
	35	1287.59	1281 -	1293	1287.12	2.73E+01	27.55	7.14E+01	2.60
	36	1461.23	1454 -	1466	1460.71	6.85E+02	54.42	2.60E+01	2.30
	37	1510.29	1505 -	1514	1509.75	1.27E+01	12.45	1.46E+01	1.86
	38	1558.95	1555 -	1561	1558.40	6.50E+00	8.03	7.00E+00	3.65
	39	1589.79	1583 -	1595	1589.23	2.75E+01	21.01	3.90E+01	1.31
	40	1729.00	1723 -	1732	1728.41	1.77E+01	13.23	1.47E+01	1.88

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1764.82	1760 -	1770	1764.21	3.95E+01	15.51	1.10E+01	2.45
42	1848.13	1843 -	1851	1847.51	1.08E+01	8.50	4.38E+00	3.78
43	1927.82	1922 -	1929	1927.18	4.57E+00	6.63	4.86E+00	1.11
44	1941.65	1937 -	1944	1941.00	8.00E+00	5.66	0.00E+00	1.00
45	2103.47	2098 -	2107	2102.79	1.13E+01	10.68	9.50E+00	1.82
46	2120.37	2116 -	2122	2119.69	7.00E+00	8.03	6.00E+00	2.87
47	2204.19	2199 -	2206	2203.50	1.20E+01	6.93	0.00E+00	2.88
48	2557.94	2554 -	2560	2557.20	5.43E+00	6.34	3.14E+00	1.83
49	2614.49	2608 -	2618	2613.75	7.10E+01	16.85	0.00E+00	3.63
50	3517.56	3513 -	3519	3516.83	6.00E+00	4.90	0.00E+00	1.98

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	32.11	29 -	35	8.77E+01	80.04	1.10E+03	6.40E+01
	2	46.05	43 -	49	2.14E+02	73.95	8.18E+02	5.58E+01
	3	53.24	51 -	55	4.34E+01	51.90	5.63E+02	4.13E+01
	4	76.55	72 -	82	6.54E+02	126.01	1.75E+03	9.47E+01
M	5	88.14	83 -	96	1.62E+02	66.90	7.51E+02	4.50E+01
m	6	93.03	83 -	96	1.93E+02	67.73	6.41E+02	4.16E+01
	7	99.22	97 -	102	7.70E+01	57.58	6.04E+02	4.51E+01
	8	154.34	152 -	157	4.39E+01	50.54	4.78E+02	4.01E+01
	9	209.76	207 -	213	4.47E+01	51.97	4.53E+02	4.13E+01
M	10	239.02	235 -	246	4.44E+02	57.55	2.86E+02	2.78E+01
m	11	242.09	235 -	246	8.17E+01	43.78	2.48E+02	2.59E+01
	12	269.63	265 -	273	7.08E+01	50.59	3.48E+02	3.92E+01
M	13	295.26	292 -	303	1.96E+02	39.53	1.66E+02	2.12E+01
m	14	300.16	292 -	303	3.87E+01	31.41	1.73E+02	2.16E+01
	15	338.74	334 -	344	9.82E+01	58.31	4.00E+02	4.51E+01
	16	352.06	348 -	356	2.89E+02	52.59	2.49E+02	1.46E+01
	17	387.80	385 -	391	2.81E+01	32.31	1.72E+02	2.51E+01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
18	463.59	460 -	468	5.33E+01	34.71	1.51E+02	2.59E+01
19	511.05	507 -	514	1.20E+02	39.50	1.81E+02	2.70E+01
20	518.57	516 -	522	2.50E+01	26.84	1.08E+02	2.05E+01
21	526.39	523 -	531	3.36E+01	32.37	1.43E+02	2.48E+01
22	583.44	579 -	587	1.47E+02	38.67	1.39E+02	2.47E+01
23	590.99	588 -	594	1.98E+01	24.80	9.65E+01	1.90E+01
24	609.37	605 -	612	1.91E+02	38.83	1.24E+02	2.24E+01
25	727.41	724 -	730	4.80E+01	25.17	8.01E+01	1.73E+01
26	795.31	792 -	801	2.49E+01	29.70	1.16E+02	2.30E+01
27	861.55	858 -	866	3.92E+01	24.49	6.97E+01	1.73E+01
28	881.57	874 -	888	4.14E+01	33.03	9.72E+01	2.50E+01
29	911.90	906 -	917	1.20E+02	39.70	1.33E+02	2.72E+01
30	969.51	966 -	973	5.99E+01	31.75	1.12E+02	2.28E+01
31	1002.59	999 -	1007	2.27E+01	27.16	1.01E+02	1.20E+01
32	1120.64	1116 -	1124	3.82E+01	29.77	1.14E+02	2.23E+01
33	1189.56	1186 -	1192	1.55E+01	20.21	6.30E+01	1.53E+01
34	1205.78	1193 -	1218	7.33E+01	63.24	2.47E+02	5.00E+01
35	1287.59	1281 -	1293	2.73E+01	27.55	7.14E+01	2.10E+01
36	1461.23	1454 -	1466	6.85E+02	54.42	2.60E+01	1.22E+01
37	1510.29	1505 -	1514	1.27E+01	12.45	1.46E+01	8.39E+00
38	1558.95	1555 -	1561	6.50E+00	8.03	7.00E+00	5.10E+00
39	1589.79	1583 -	1595	2.75E+01	21.01	3.90E+01	1.50E+01
40	1729.00	1723 -	1732	1.77E+01	13.23	1.47E+01	8.40E+00
41	1764.82	1760 -	1770	3.95E+01	15.51	1.10E+01	7.47E+00
42	1848.13	1843 -	1851	1.08E+01	8.50	4.38E+00	4.43E+00
43	1927.82	1922 -	1929	4.57E+00	6.63	4.86E+00	4.17E+00
44	1941.65	1937 -	1944	8.00E+00	5.66	0.00E+00	0.00E+00
45	2103.47	2098 -	2107	1.13E+01	10.68	9.50E+00	6.83E+00
46	2120.37	2116 -	2122	7.00E+00	8.03	6.00E+00	4.97E+00
47	2204.19	2199 -	2206	1.20E+01	6.93	0.00E+00	0.00E+00
48	2557.94	2554 -	2560	5.43E+00	6.34	3.14E+00	3.54E+00
49	2614.49	2608 -	2618	7.10E+01	16.85	0.00E+00	0.00E+00
50	3517.56	3513 -	3519	6.00E+00	4.90	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	32.11	29 -	35	32.22	8.77E+01	80.04	1.10E+03	.....
	2	46.05	43 -	49	46.15	2.14E+02	73.95	8.18E+02	PB-210
	3	53.24	51 -	55	53.34	4.34E+01	51.90	5.63E+02	.....
	4	76.55	72 -	82	76.64	6.54E+02	126.01	1.75E+03	.....
M	5	88.14	83 -	96	88.22	1.62E+02	66.90	7.51E+02	CD-109
									LU-176
									SN-126
m	6	93.03	83 -	96	93.11	1.93E+02	67.73	6.41E+02	GA-67
	7	99.22	97 -	102	99.29	7.70E+01	57.58	6.04E+02	.....
	8	154.34	152 -	157	154.39	4.39E+01	50.54	4.78E+02	.....
	9	209.76	207 -	213	209.78	4.47E+01	51.97	4.53E+02	CM-243
									GA-67
M	10	239.02	235 -	246	239.01	4.44E+02	57.55	2.86E+02	PB-212
m	11	242.09	235 -	246	242.09	8.17E+01	43.78	2.48E+02	.....
	12	269.63	265 -	273	269.61	7.08E+01	50.59	3.48E+02	.....
M	13	295.26	292 -	303	295.23	1.96E+02	39.53	1.66E+02	PB-214
m	14	300.16	292 -	303	300.12	3.87E+01	31.41	1.73E+02	GA-67
									PB-212
									BI-210M
	15	338.74	334 -	344	338.68	9.82E+01	58.31	4.00E+02	AC-228
	16	352.06	348 -	356	351.99	2.89E+02	52.59	2.49E+02	PB-214
	17	387.80	385 -	391	387.72	2.81E+01	32.31	1.72E+02	.....
	18	463.59	460 -	468	463.47	5.33E+01	34.71	1.51E+02	SB-125
	19	511.05	507 -	514	510.90	1.20E+02	39.50	1.81E+02	.....
	20	518.57	516 -	522	518.43	2.50E+01	26.84	1.08E+02	.....
	21	526.39	523 -	531	526.23	3.36E+01	32.37	1.43E+02	.....
	22	583.44	579 -	587	583.26	1.47E+02	38.67	1.39E+02	TL-208
	23	590.99	588 -	594	590.81	1.98E+01	24.80	9.65E+01	.....
	24	609.37	605 -	612	609.17	1.91E+02	38.83	1.24E+02	BI-214
	25	727.41	724 -	730	727.16	4.80E+01	25.17	8.01E+01	BI-212
	26	795.31	792 -	801	795.04	2.49E+01	29.70	1.16E+02	CS-134
	27	861.55	858 -	866	861.25	3.92E+01	24.49	6.97E+01	.....
	28	881.57	874 -	888	881.26	4.14E+01	33.03	9.72E+01	.....
	29	911.90	906 -	917	911.58	1.20E+02	39.70	1.33E+02	LU-172
									AC-228
	30	969.51	966 -	973	969.16	5.99E+01	31.75	1.12E+02	AC-228
	31	1002.59	999 -	1007	1002.23	2.27E+01	27.16	1.01E+02	.....
	32	1120.64	1116 -	1124	1120.23	3.82E+01	29.77	1.14E+02	SC-46
									BI-214
									TA-182
	33	1189.56	1186 -	1192	1189.13	1.55E+01	20.21	6.30E+01	TA-182

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
34	1205.78	1193 -	1218	1205.35	7.33E+01	63.24	2.47E+02	.....
35	1287.59	1281 -	1293	1287.12	2.73E+01	27.55	7.14E+01	.....
36	1461.23	1454 -	1466	1460.71	6.85E+02	54.42	2.60E+01	K-40
37	1510.29	1505 -	1514	1509.75	1.27E+01	12.45	1.46E+01	.....
38	1558.95	1555 -	1561	1558.40	6.50E+00	8.03	7.00E+00	.....
39	1589.79	1583 -	1595	1589.23	2.75E+01	21.01	3.90E+01	.....
40	1729.00	1723 -	1732	1728.41	1.77E+01	13.23	1.47E+01	.....
41	1764.82	1760 -	1770	1764.21	3.95E+01	15.51	1.10E+01	BI-214
42	1848.13	1843 -	1851	1847.51	1.08E+01	8.50	4.38E+00	.....
43	1927.82	1922 -	1929	1927.18	4.57E+00	6.63	4.86E+00	.....
44	1941.65	1937 -	1944	1941.00	8.00E+00	5.66	0.00E+00	.....
45	2103.47	2098 -	2107	2102.79	1.13E+01	10.68	9.50E+00	.....
46	2120.37	2116 -	2122	2119.69	7.00E+00	8.03	6.00E+00	.....
47	2204.19	2199 -	2206	2203.50	1.20E+01	6.93	0.00E+00	BI-214
48	2557.94	2554 -	2560	2557.20	5.43E+00	6.34	3.14E+00	.....
49	2614.49	2608 -	2618	2613.75	7.10E+01	16.85	0.00E+00	TL-208
50	3517.56	3513 -	3519	3516.83	6.00E+00	4.90	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	32.11	8.77E+01	80.04	2.82E-03	1.68E-03
	2	46.05	2.14E+02	73.95	1.30E-02	1.68E-03
	3	53.24	4.34E+01	51.90	1.83E-02	1.68E-03
	4	76.55	6.54E+02	126.01	2.74E-02	3.37E-03
M	5	88.14	1.62E+02	66.90	2.84E-02	4.50E-03
m	6	93.03	1.93E+02	67.73	2.85E-02	4.28E-03
	7	99.22	7.70E+01	57.58	2.83E-02	4.01E-03
	8	154.34	4.39E+01	50.54	2.37E-02	2.02E-03
	9	209.76	4.47E+01	51.97	1.95E-02	1.63E-03
M	10	239.02	4.44E+02	57.55	1.79E-02	1.60E-03
m	11	242.09	8.17E+01	43.78	1.77E-02	1.60E-03
	12	269.63	7.08E+01	50.59	1.65E-02	1.57E-03
M	13	295.26	1.96E+02	39.53	1.55E-02	1.48E-03

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	14	300.16	3.87E+01	31.41	1.53E-02	1.46E-03
	15	338.74	9.82E+01	58.31	1.41E-02	1.27E-03
	16	352.06	2.89E+02	52.59	1.37E-02	1.21E-03
	17	387.80	2.81E+01	32.31	1.28E-02	1.04E-03
	18	463.59	5.33E+01	34.71	1.13E-02	9.46E-04
	19	511.05	1.20E+02	39.50	1.06E-02	8.98E-04
	20	518.57	2.50E+01	26.84	1.04E-02	8.91E-04
	21	526.39	3.36E+01	32.37	1.03E-02	8.83E-04
	22	583.44	1.47E+02	38.67	9.58E-03	8.25E-04
	23	590.99	1.98E+01	24.80	9.49E-03	8.17E-04
	24	609.37	1.91E+02	38.83	9.27E-03	7.98E-04
	25	727.41	4.80E+01	25.17	8.08E-03	7.03E-04
	26	795.31	2.49E+01	29.70	7.53E-03	6.59E-04
	27	861.55	3.92E+01	24.49	7.06E-03	6.17E-04
	28	881.57	4.14E+01	33.03	6.93E-03	6.04E-04
	29	911.90	1.20E+02	39.70	6.74E-03	5.86E-04
	30	969.51	5.99E+01	31.75	6.41E-03	5.57E-04
	31	1002.59	2.27E+01	27.16	6.24E-03	5.40E-04
	32	1120.64	3.82E+01	29.77	5.70E-03	4.80E-04
	33	1189.56	1.55E+01	20.21	5.44E-03	4.60E-04
	34	1205.78	7.33E+01	63.24	5.38E-03	4.68E-04
	35	1287.59	2.73E+01	27.55	5.12E-03	5.06E-04
	36	1461.23	6.85E+02	54.42	4.67E-03	4.73E-04
	37	1510.29	1.27E+01	12.45	4.57E-03	4.53E-04
	38	1558.95	6.50E+00	8.03	4.48E-03	4.33E-04
	39	1589.79	2.75E+01	21.01	4.43E-03	4.20E-04
	40	1729.00	1.77E+01	13.23	4.23E-03	3.62E-04
	41	1764.82	3.95E+01	15.51	4.18E-03	3.47E-04
	42	1848.13	1.08E+01	8.50	4.10E-03	3.18E-04
	43	1927.82	4.57E+00	6.63	4.04E-03	3.18E-04
	44	1941.65	8.00E+00	5.66	4.03E-03	3.18E-04
	45	2103.47	1.13E+01	10.68	3.95E-03	3.18E-04
	46	2120.37	7.00E+00	8.03	3.95E-03	3.18E-04
	47	2204.19	1.20E+01	6.93	3.93E-03	3.18E-04
	48	2557.94	5.43E+00	6.34	4.02E-03	3.18E-04
	49	2614.49	7.10E+01	16.85	4.05E-03	3.18E-04
	50	3517.56	6.00E+00	4.90	5.52E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	32.11	8.77E+01	80.04			8.77E+01	8.00E+01
	2	46.05	2.14E+02	73.95	7.29E+01	8.80E+00	1.41E+02	7.45E+01
	3	53.24	4.34E+01	51.90			4.34E+01	5.19E+01
	4	76.55	6.54E+02	126.01	2.65E+01	9.95E+00	6.27E+02	1.26E+02
M	5	88.14	1.62E+02	66.90	6.84E+00	1.23E+00	1.55E+02	6.69E+01
m	6	93.03	1.93E+02	67.73	6.54E+01	3.76E+00	1.28E+02	6.78E+01
	7	99.22	7.70E+01	57.58	0.00E+00	0.00E+00	7.70E+01	5.76E+01
	8	154.34	4.39E+01	50.54			4.39E+01	5.05E+01
	9	209.76	4.47E+01	51.97			4.47E+01	5.20E+01
M	10	239.02	4.44E+02	57.55	1.43E+01	7.07E+00	4.30E+02	5.80E+01
m	11	242.09	8.17E+01	43.78			8.17E+01	4.38E+01
	12	269.63	7.08E+01	50.59	1.77E+00	6.25E+00	6.90E+01	5.10E+01
M	13	295.26	1.96E+02	39.53	9.61E+00	5.92E+00	1.87E+02	4.00E+01
m	14	300.16	3.87E+01	31.41			3.87E+01	3.14E+01
	15	338.74	9.82E+01	58.31			9.82E+01	5.83E+01
	16	352.06	2.89E+02	52.59	1.56E+01	5.52E+00	2.73E+02	5.29E+01
	17	387.80	2.81E+01	32.31			2.81E+01	3.23E+01
	18	463.59	5.33E+01	34.71			5.33E+01	3.47E+01
	19	511.05	1.20E+02	39.50	8.01E+01	5.53E+00	3.96E+01	3.99E+01
	20	518.57	2.50E+01	26.84			2.50E+01	2.68E+01
	21	526.39	3.36E+01	32.37			3.36E+01	3.24E+01
	22	583.44	1.47E+02	38.67	6.24E+00	3.96E+00	1.41E+02	3.89E+01
	23	590.99	1.98E+01	24.80			1.98E+01	2.48E+01
	24	609.37	1.91E+02	38.83	1.38E+01	3.84E+00	1.77E+02	3.90E+01
	25	727.41	4.80E+01	25.17			4.80E+01	2.52E+01
	26	795.31	2.49E+01	29.70			2.49E+01	2.97E+01
	27	861.55	3.92E+01	24.49			3.92E+01	2.45E+01
	28	881.57	4.14E+01	33.03			4.14E+01	3.30E+01
	29	911.90	1.20E+02	39.70	7.18E+00	2.77E+00	1.13E+02	3.98E+01
	30	969.51	5.99E+01	31.75			5.99E+01	3.17E+01
	31	1002.59	2.27E+01	27.16			2.27E+01	2.72E+01
	32	1120.64	3.82E+01	29.77	3.25E+00	2.68E+00	3.50E+01	2.99E+01
	33	1189.56	1.55E+01	20.21			1.55E+01	2.02E+01
	34	1205.78	7.33E+01	63.24			7.33E+01	6.32E+01
	35	1287.59	2.73E+01	27.55			2.73E+01	2.75E+01
	36	1461.23	6.85E+02	54.42	1.14E+01	2.53E+00	6.74E+02	5.45E+01
	37	1510.29	1.27E+01	12.45			1.27E+01	1.24E+01
	38	1558.95	6.50E+00	8.03			6.50E+00	8.03E+00
	39	1589.79	2.75E+01	21.01			2.75E+01	2.10E+01
	40	1729.00	1.77E+01	13.23			1.77E+01	1.32E+01
	41	1764.82	3.95E+01	15.51	3.50E+00	2.20E+00	3.60E+01	1.57E+01
	42	1848.13	1.08E+01	8.50			1.08E+01	8.50E+00
	43	1927.82	4.57E+00	6.63			4.57E+00	6.63E+00
	44	1941.65	8.00E+00	5.66			8.00E+00	5.66E+00
	45	2103.47	1.13E+01	10.68			1.13E+01	1.07E+01
	46	2120.37	7.00E+00	8.03			7.00E+00	8.03E+00
	47	2204.19	1.20E+01	6.93			1.20E+01	6.93E+00
	48	2557.94	5.43E+00	6.34			5.43E+00	6.34E+00
	49	2614.49	7.10E+01	16.85	8.08E+00	1.71E+00	6.29E+01	1.69E+01
	50	3517.56	6.00E+00	4.90			6.00E+00	4.90E+00

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	32.11	8.77E+01	80.04			8.77E+01	8.00E+01
	2	46.05	2.14E+02	73.95	7.29E+01	8.80E+00	1.41E+02	7.45E+01
	3	53.24	4.34E+01	51.90			4.34E+01	5.19E+01
	4	76.55	6.54E+02	126.01	2.65E+01	9.95E+00	6.27E+02	1.26E+02
M	5	88.14	1.62E+02	66.90	6.84E+00	1.23E+00	1.55E+02	6.69E+01
m	6	93.03	1.93E+02	67.73	6.54E+01	3.76E+00	1.28E+02	6.78E+01
	7	99.22	7.70E+01	57.58	0.00E+00	0.00E+00	7.70E+01	5.76E+01
	8	154.34	4.39E+01	50.54			4.39E+01	5.05E+01
	9	209.76	4.47E+01	51.97			4.47E+01	5.20E+01
M	10	239.02	4.44E+02	57.55	1.43E+01	7.07E+00	4.30E+02	5.80E+01
m	11	242.09	8.17E+01	43.78			8.17E+01	4.38E+01
	12	269.63	7.08E+01	50.59	1.77E+00	6.25E+00	6.90E+01	5.10E+01
M	13	295.26	1.96E+02	39.53	9.61E+00	5.92E+00	1.87E+02	4.00E+01
m	14	300.16	3.87E+01	31.41			3.87E+01	3.14E+01
	15	338.74	9.82E+01	58.31			9.82E+01	5.83E+01
	16	352.06	2.89E+02	52.59	1.56E+01	5.52E+00	2.73E+02	5.29E+01
	17	387.80	2.81E+01	32.31			2.81E+01	3.23E+01
	18	463.59	5.33E+01	34.71			5.33E+01	3.47E+01
	19	511.05	1.20E+02	39.50	8.01E+01	5.53E+00	3.96E+01	3.99E+01
	20	518.57	2.50E+01	26.84			2.50E+01	2.68E+01
	21	526.39	3.36E+01	32.37			3.36E+01	3.24E+01
	22	583.44	1.47E+02	38.67	6.24E+00	3.96E+00	1.41E+02	3.89E+01
	23	590.99	1.98E+01	24.80			1.98E+01	2.48E+01
	24	609.37	1.91E+02	38.83	1.38E+01	3.84E+00	1.77E+02	3.90E+01
	25	727.41	4.80E+01	25.17			4.80E+01	2.52E+01
	26	795.31	2.49E+01	29.70			2.49E+01	2.97E+01
	27	861.55	3.92E+01	24.49			3.92E+01	2.45E+01
	28	881.57	4.14E+01	33.03			4.14E+01	3.30E+01
	29	911.90	1.20E+02	39.70	7.18E+00	2.77E+00	1.13E+02	3.98E+01
	30	969.51	5.99E+01	31.75			5.99E+01	3.17E+01
	31	1002.59	2.27E+01	27.16			2.27E+01	2.72E+01
	32	1120.64	3.82E+01	29.77	3.25E+00	2.68E+00	3.50E+01	2.99E+01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
33	1189.56	1.55E+01	20.21			1.55E+01	2.02E+01
34	1205.78	7.33E+01	63.24			7.33E+01	6.32E+01
35	1287.59	2.73E+01	27.55			2.73E+01	2.75E+01
36	1461.23	6.85E+02	54.42	1.14E+01	2.53E+00	6.74E+02	5.45E+01
37	1510.29	1.27E+01	12.45			1.27E+01	1.24E+01
38	1558.95	6.50E+00	8.03			6.50E+00	8.03E+00
39	1589.79	2.75E+01	21.01			2.75E+01	2.10E+01
40	1729.00	1.77E+01	13.23			1.77E+01	1.32E+01
41	1764.82	3.95E+01	15.51	3.50E+00	2.20E+00	3.60E+01	1.57E+01
42	1848.13	1.08E+01	8.50			1.08E+01	8.50E+00
43	1927.82	4.57E+00	6.63			4.57E+00	6.63E+00
44	1941.65	8.00E+00	5.66			8.00E+00	5.66E+00
45	2103.47	1.13E+01	10.68			1.13E+01	1.07E+01
46	2120.37	7.00E+00	8.03			7.00E+00	8.03E+00
47	2204.19	1.20E+01	6.93			1.20E+01	6.93E+00
48	2557.94	5.43E+00	6.34			5.43E+00	6.34E+00
49	2614.49	7.10E+01	16.85	8.08E+00	1.71E+00	6.29E+01	1.69E+01
50	3517.56	6.00E+00	4.90			6.00E+00	4.90E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.972	1460.81	*	10.67	1.56E+01	2.04E+00
GA-67	0.697	93.31	*	35.70	4.74E+01	1.79E+02
		208.95	*	2.24	3.87E+02	1.45E+03
		300.22	*	16.00	5.98E+01	2.28E+02
CD-109	0.998	88.03	*	3.72	1.76E+00	8.15E-01
SN-126	0.950	87.57	*	37.00	1.70E-01	7.80E-02
TL-208	0.884	583.14	*	30.22	5.62E-01	1.62E-01
		860.37		4.48		
		2614.66	*	35.85	4.99E-01	1.40E-01
PB-210	0.968	46.50	*	4.25	2.94E+00	1.60E+00
BI-212	0.758	727.17	*	11.80	5.79E-01	3.08E-01
		1620.62		2.75		
PB-212	0.978	238.63	*	44.60	6.21E-01	1.01E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-212	0.978	300.09	*	3.41	8.55E-01	6.98E-01
BI-214	0.993	609.31	*	46.30	4.75E-01	1.12E-01
		1120.29	*	15.10	4.68E-01	4.02E-01
		1764.49	*	15.80	6.27E-01	2.78E-01
		2204.22	*	4.98	7.06E-01	4.11E-01
PB-214	0.998	295.21	*	19.19	7.25E-01	1.70E-01
		351.92	*	37.19	6.16E-01	1.31E-01
AC-228	0.934	338.32	*	11.40	7.04E-01	4.23E-01
		911.07	*	27.70	6.98E-01	2.53E-01
		969.11	*	16.60	6.48E-01	3.48E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:16:26PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.11	2.43611E-02	45.63		
	3	53.24	1.20667E-02	59.74		
	4	76.55	1.74190E-01	10.08		
	7	99.22	2.13786E-02	37.41	D-Esc	
	8	154.34	1.21938E-02	57.56		
m	11	242.09	2.27003E-02	26.78		
	12	269.63	1.91775E-02	36.92		
	17	387.80	7.80702E-03	57.48	Sum	
	18	463.59	1.48019E-02	32.57		
	19	511.05	1.09998E-02	50.36		
	20	518.57	6.95499E-03	53.59		
	21	526.39	9.33333E-03	48.17		
	23	590.99	5.48611E-03	62.78	Sum	
	26	795.31	6.91432E-03	59.66	Tol.	CS-134
	27	861.55	1.08765E-02	31.27		
	28	881.57	1.14985E-02	39.90		
	31	1002.59	6.30137E-03	59.86		
	33	1189.56	4.30556E-03	65.20	Tol.	TA-182
	34	1205.78	2.03539E-02	43.15		

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
35	1287.59	7.58598E-03	50.44		
37	1510.29	3.52778E-03	49.02		
38	1558.95	1.80556E-03	61.78		
39	1589.79	7.63889E-03	38.20		
40	1729.00	4.90556E-03	37.45	Sum	
42	1848.13	3.00214E-03	39.32	Sum	
43	1927.82	1.26984E-03	72.55		
44	1941.65	2.22222E-03	35.36		
45	2103.47	3.12500E-03	47.45	S-Esc	
46	2120.37	1.94444E-03	57.37		
48	2557.94	1.50794E-03	58.43		
50	3517.56	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.56E+01	2.04E+00
GA-67	0.69	93.31	*	35.70	4.74E+01	1.79E+02
		208.95	*	2.24	3.87E+02	1.45E+03
		300.22	*	16.00	5.98E+01	2.28E+02
CD-109	0.99	88.03	*	3.72	1.76E+00	8.15E-01
SN-126	0.95	87.57	*	37.00	1.70E-01	7.80E-02
TL-208	0.88	583.14	*	30.22	5.62E-01	1.62E-01
		860.37		4.48		
		2614.66	*	35.85	4.99E-01	1.40E-01
PB-210	0.96	46.50	*	4.25	2.94E+00	1.60E+00
BI-212	0.75	727.17	*	11.80	5.79E-01	3.08E-01
		1620.62		2.75		
PB-212	0.97	238.63	*	44.60	6.21E-01	1.01E-01
		300.09	*	3.41	8.55E-01	6.98E-01
BI-214	0.99	609.31	*	46.30	4.75E-01	1.12E-01
		1120.29	*	15.10	4.68E-01	4.02E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.99	1764.49	*	15.80	6.27E-01	2.78E-01
		2204.22	*	4.98	7.06E-01	4.11E-01
PB-214	0.99	295.21	*	19.19	7.25E-01	1.70E-01
		351.92	*	37.19	6.16E-01	1.31E-01
AC-228	0.93	338.32	*	11.40	7.04E-01	4.23E-01
		911.07	*	27.70	6.98E-01	2.53E-01
		969.11	*	16.60	6.48E-01	3.48E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.972	1.56E+01	2.04E+00	
	GA-67	0.697	4.15E+01	1.49E+02	
?	CD-109	0.998	1.76E+00	8.15E-01	
?	SN-126	0.950	1.70E-01	7.80E-02	
	TL-208	0.884	5.26E-01	1.06E-01	
	PB-210	0.968	2.94E+00	1.60E+00	
	BI-212	0.758	5.79E-01	3.08E-01	
	PB-212	0.978	6.14E-01	9.98E-02	
	BI-214	0.993	5.07E-01	9.80E-02	
	PB-214	0.998	6.57E-01	1.04E-01	
	AC-228	0.934	6.85E-01	1.84E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-05

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:16:26PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.11	2.43611E-02	45.63		
	3	53.24	1.20667E-02	59.74		
	4	76.55	1.74190E-01	10.08		
	7	99.22	2.13786E-02	37.41	D-Esc	
	8	154.34	1.21938E-02	57.56		
m	11	242.09	2.27003E-02	26.78		
	12	269.63	1.91775E-02	36.92		
	17	387.80	7.80702E-03	57.48	Sum	
	18	463.59	1.48019E-02	32.57		
	19	511.05	1.09998E-02	50.36		
	20	518.57	6.95499E-03	53.59		
	21	526.39	9.33333E-03	48.17		
	23	590.99	5.48611E-03	62.78	Sum	
	26	795.31	6.91432E-03	59.66	Tol.	CS-134
	27	861.55	1.08765E-02	31.27		
	28	881.57	1.14985E-02	39.90		
	31	1002.59	6.30137E-03	59.86		
	33	1189.56	4.30556E-03	65.20	Tol.	TA-182
	34	1205.78	2.03539E-02	43.15		
	35	1287.59	7.58598E-03	50.44		
	37	1510.29	3.52778E-03	49.02		
	38	1558.95	1.80556E-03	61.78		
	39	1589.79	7.63889E-03	38.20		
	40	1729.00	4.90556E-03	37.45	Sum	
	42	1848.13	3.00214E-03	39.32	Sum	
	43	1927.82	1.26984E-03	72.55		
	44	1941.65	2.22222E-03	35.36		
	45	2103.47	3.12500E-03	47.45	S-Esc	
	46	2120.37	1.94444E-03	57.37		
	48	2557.94	1.50794E-03	58.43		
	50	3517.56	1.66667E-03	40.82		

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-1.68E-01	4.86E-01	4.86E-01
+	NA-22	1274.54		99.94	4.21E-02	7.15E-02	7.15E-02
+	NA-24	1368.53		99.99	-1.90E+11	2.74E+11	7.75E+11
		2754.09		99.86	-1.24E+11		2.74E+11
+	AL-26	1808.65		99.76	-6.93E-03	5.06E-02	5.06E-02
+	K-40	1460.81	*	10.67	1.56E+01	6.90E-01	6.90E-01
+ @	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	4.38E-03	3.55E-02	3.55E-02
		78.34		96.00	1.35E-01		5.05E-02
+	SC-46	889.25		99.98	-1.19E-02	6.26E-02	6.26E-02
		1120.51		99.99	9.76E-02		1.14E-01
+	V-48	983.52		99.98	3.26E-02	1.82E-01	1.82E-01
		1312.10		97.50	4.47E-02		2.15E-01
+	CR-51	320.08		9.83	-3.48E-01	7.68E-01	7.68E-01
+	MN-54	834.83		99.97	-5.26E-03	6.12E-02	6.12E-02
+	CO-56	846.75		99.96	-1.67E-02	7.41E-02	7.41E-02
		1037.75		14.03	-2.06E-01		5.06E-01
		1238.25		67.00	4.81E-02		1.73E-01
		1771.40		15.51	-5.65E-02		3.19E-01
		2598.48		16.90	-7.14E-03		1.58E-01
+	CO-57	122.06		85.51	-1.11E-02	4.31E-02	4.31E-02
		136.48		10.60	-3.27E-02		3.42E-01
+	CO-58	810.76		99.40	7.09E-03	6.92E-02	6.92E-02
+	FE-59	1099.22		56.50	-5.37E-03	1.60E-01	1.60E-01
		1291.56		43.20	-2.26E-02		2.03E-01
+	CO-60	1173.22		100.00	3.13E-02	5.60E-02	7.39E-02
		1332.49		100.00	9.10E-03		5.60E-02
+	ZN-65	1115.52		50.75	3.58E-02	1.50E-01	1.50E-01
+	GA-67	93.31	*	35.70	4.74E+01	7.14E+01	7.14E+01
		208.95	*	2.24	3.87E+02		7.39E+02
		300.22	*	16.00	5.98E+01		1.38E+02
+	SE-75	121.11		16.70	4.24E-02	6.70E-02	2.46E-01

Analysis Report for 1508002-05

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	-3.00E-02	6.70E-02	6.70E-02
		264.65		59.80	-1.22E-02		6.94E-02
		279.53		25.20	-1.89E-01		1.72E-01
		400.65		11.40	-2.92E-02		3.98E-01
+	RB-82	776.52		13.00	6.17E-02	7.59E-01	7.59E-01
+	RB-83	520.41		46.00	2.09E-02	1.10E-01	1.10E-01
		529.64		30.30	-3.54E-02		1.77E-01
		552.65		16.40	-6.53E-02		2.88E-01
+	KR-85	513.99		0.43	-1.08E+01	1.16E+01	1.16E+01
+	SR-85	513.99		99.27	-6.31E-02	6.73E-02	6.73E-02
+	Y-88	898.02		93.40	-2.06E-02	5.61E-02	6.85E-02
		1836.01		99.38	2.24E-03		5.61E-02
+	NB-93M	16.57		9.43	-1.13E+04	4.20E+03	4.20E+03
+	NB-94	702.63		100.00	-1.00E-02	4.71E-02	5.29E-02
		871.10		100.00	2.25E-02		4.71E-02
+	NB-95	765.79		99.81	1.24E-01	1.16E-01	1.16E-01
+	NB-95M	235.69		25.00	-2.85E+02	3.85E+01	3.85E+01
+	ZR-95	724.18		43.70	2.18E-02	1.25E-01	1.91E-01
		756.72		55.30	3.12E-02		1.25E-01
+	MO-99	181.06		6.20	3.58E+02	3.89E+02	6.04E+02
		739.58		12.80	7.46E+01		3.89E+02
		778.00		4.50	-3.81E+02		1.03E+03
+	RU-103	497.08		89.00	-2.46E-02	6.16E-02	6.16E-02
+	RU-106	621.84		9.80	2.06E-01	5.53E-01	5.53E-01
+	AG-108M	433.93		89.90	1.41E-02	4.46E-02	4.46E-02
		614.37		90.40	2.68E-03		5.48E-02
		722.95		90.50	3.28E-03		6.12E-02
+	CD-109	88.03	*	3.72	1.76E+00	2.18E+00	2.18E+00
+	AG-110M	657.75		93.14	-9.78E-03	5.91E-02	5.91E-02
		677.61		10.53	1.48E-01		5.51E-01
		706.67		16.46	9.12E-03		3.64E-01
		763.93		21.98	-1.84E-01		2.90E-01
		884.67		71.63	-3.50E-04		8.33E-02
		1384.27		23.94	-2.67E-02		2.08E-01
+	CD-113M	263.70		0.02	8.02E+00	1.58E+02	1.58E+02
+	SN-113	255.12		1.93	-4.37E-01	7.23E-02	2.49E+00
		391.69		64.90	2.79E-02		7.23E-02
+	TE123M	159.00		84.10	-8.55E-03	4.84E-02	4.84E-02
+	SB-124	602.71		97.87	-1.38E-02	6.78E-02	6.78E-02
		645.85		7.26	9.14E-02		8.63E-01
		722.78		11.10	3.66E-02		6.82E-01
		1691.02		49.00	1.61E-02		1.36E-01
+	I-125	35.49		6.49	-1.73E+00	3.77E+00	3.77E+00
+	SB-125	176.33		6.89	-4.46E-01	1.40E-01	5.16E-01
		427.89		29.33	-1.61E-02		1.40E-01
		463.38		10.35	3.59E-01		4.69E-01
		600.56		17.80	1.10E-02		2.85E-01
		635.90		11.32	8.66E-02		5.35E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	-2.73E-04	2.24E-01	2.24E-01
		666.33		99.60	-1.63E-01		2.24E-01
		695.00		99.60	5.69E-02		2.51E-01
		720.50		53.80	-2.63E-02		4.41E-01
+	SN-126	87.57	*	37.00	1.70E-01	2.10E-01	2.10E-01
+	SB-127	473.00		25.00	-2.08E-01	1.85E+01	1.85E+01
		685.20		35.70	3.84E+00		1.98E+01
		783.80		14.70	4.00E+01		5.67E+01
+	I-129	29.78		57.00	-7.53E-01	8.78E-01	8.78E-01
		33.60		13.20	1.43E-01		1.91E+00
		39.58		7.52	8.50E-01		1.56E+00
+	I-131	284.30		6.05	1.72E+00	5.03E-01	6.61E+00
		364.48		81.20	1.34E-01		5.03E-01
		636.97		7.26	2.18E+00		8.51E+00
		722.89		1.80	1.73E+00		3.22E+01
+	TE-132	49.72		13.10	-7.93E+01	1.55E+01	1.10E+02
		228.16		88.00	-2.34E-01		1.55E+01
+	BA-133	81.00		33.00	2.76E-02	6.42E-02	9.39E-02
		302.84		17.80	-4.16E-02		2.10E-01
		356.01		60.00	-8.92E-03		6.42E-02
+	I-133	529.87		86.30	-7.58E+07	1.38E+08	1.38E+08
+	XE-133	81.00		38.00	8.74E-01	2.98E+00	2.98E+00
+	CS-134	563.23		8.38	5.31E-02	5.54E-02	4.91E-01
		569.32		15.43	1.52E-02		2.63E-01
		604.70		97.60	-6.76E-03		5.54E-02
		795.84		85.40	6.11E-02		7.54E-02
		801.93		8.73	3.56E-01		6.90E-01
+	CS-135	268.24		16.00	1.33E-02	2.57E-01	2.57E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	-7.28E-01	2.19E-01	1.98E+00
		163.89		4.61	-4.60E-01		3.33E+00
		176.55		13.56	-3.02E-01		1.09E+00
		273.65		12.66	-4.28E-01		1.21E+00
		340.57		48.50	-3.20E-01		3.95E-01
		818.50		99.70	-1.29E-02		2.19E-01
		1048.07		79.60	-5.41E-02		3.28E-01
		1235.34		19.70	2.98E-01		1.86E+00
+	CS-137	661.65		85.12	3.52E-02	6.48E-02	6.48E-02
+	LA-138	788.74		34.00	4.42E-02	7.87E-02	1.66E-01
		1435.80		66.00	1.35E-02		7.87E-02
+	CE-139	165.85		80.35	-3.06E-02	4.96E-02	4.96E-02
+	BA-140	162.64		6.70	2.90E+00	6.37E-01	2.47E+00
		304.84		4.50	4.63E-01		3.52E+00
		423.70		3.20	2.76E+00		5.96E+00
		437.55		2.00	-8.67E-01		8.84E+00
		537.32		25.00	-5.15E-01		6.37E-01
+	LA-140	328.77		20.50	9.10E-01	2.93E-01	9.04E-01

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03	45.50	-1.76E-01	2.93E-01	3.80E-01
		815.85	23.50	-4.94E-01		9.02E-01
		1596.49	95.49	-4.26E-02		2.93E-01
+	CE-141	145.44	48.40	8.50E-02	1.38E-01	1.38E-01
+	CE-143	57.36	11.80	7.79E+04	1.15E+05	3.03E+05
		293.26	42.00	-7.02E+04		1.15E+05
		664.55	5.20	3.19E+05		9.72E+05
+	CE-144	133.54	10.80	1.71E-01	3.45E-01	3.45E-01
+	PM-144	476.78	42.00	-3.07E-02	5.32E-02	8.91E-02
		618.01	98.60	-1.31E-03		5.32E-02
		696.49	99.49	1.25E-02		5.73E-02
+	PM-145	36.85	21.70	-6.83E-02	3.60E-01	7.02E-01
		37.36	39.70	-3.51E-02		3.60E-01
		42.30	15.10	-8.71E-02		5.67E-01
		72.40	2.31	8.07E-03		1.50E+00
+	PM-146	453.90	39.94	5.06E-02	1.25E-01	1.25E-01
		735.90	14.01	5.00E-02		3.75E-01
		747.13	13.10	9.04E-02		3.99E-01
+	ND-147	91.11	28.90	-1.35E+00	8.21E-01	8.21E-01
		531.02	13.10	3.67E-01		1.75E+00
+	PM-149	285.90	3.10	-3.18E+03	6.04E+03	6.04E+03
+	EU-152	121.78	20.50	-4.32E-02	1.68E-01	1.68E-01
		244.69	5.40	-8.34E-01		7.45E-01
		344.27	19.13	-3.52E-02		1.90E-01
		778.89	9.20	-9.85E-02		5.39E-01
		964.01	10.40	1.69E-01		6.84E-01
		1085.78	7.22	2.76E-01		8.38E-01
		1112.02	9.60	1.67E-01		7.26E-01
		1407.95	14.94	7.17E-03		3.62E-01
+	GD-153	97.43	31.30	1.98E-02	1.19E-01	1.19E-01
		103.18	22.20	-6.51E-02		1.63E-01
+	EU-154	123.07	40.50	5.03E-02	8.55E-02	8.55E-02
		723.30	19.70	1.52E-02		2.83E-01
		873.19	11.50	6.49E-02		3.75E-01
		996.32	10.30	-1.27E-02		5.83E-01
		1004.76	17.90	-2.10E-02		4.06E-01
		1274.45	35.50	1.17E-01		1.99E-01
+	EU-155	86.50	30.90	-3.04E-03	1.39E-01	1.39E-01
		105.30	20.70	1.08E-02		1.68E-01
+	EU-156	811.77	10.40	1.06E-01	1.70E+00	1.70E+00
		1153.47	7.20	2.99E-01		3.34E+00
		1230.71	8.90	1.39E-01		3.02E+00
+	HO-166M	184.41	72.60	2.80E-02	6.30E-02	6.30E-02
		280.45	29.60	-1.38E-01		1.26E-01
		410.94	11.10	-4.55E-02		3.66E-01
		711.69	54.10	-2.29E-02		9.95E-02
+	TM-171	66.72	0.14	7.60E+00	2.48E+01	2.48E+01
+	HF-172	81.75	4.52	-3.03E-01	3.02E-01	6.85E-01
		125.81	11.30	-3.31E-01		3.02E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	-2.15E+00	1.71E+00	3.10E+00
		810.06		16.63	5.44E-01		5.31E+00
		912.12		15.25	2.10E+01		1.14E+01
		1093.66		62.50	7.40E-01		1.71E+00
+	LU-173	100.72		5.24	6.62E-02	1.97E-01	6.83E-01
		272.11		21.20	8.22E-02		1.97E-01
+	HF-175	343.40		84.00	-4.32E-03	5.93E-02	5.93E-02
+	LU-176	88.34		13.30	2.80E-01	3.94E-02	3.25E-01
		201.83		86.00	-4.67E-03		4.56E-02
		306.78		94.00	5.27E-03		3.94E-02
+	TA-182	67.75		41.20	1.19E-02	9.60E-02	9.60E-02
		1121.30		34.90	2.51E-01		3.08E-01
		1189.05		16.23	6.35E-02		5.32E-01
		1221.41		26.98	8.32E-02		3.30E-01
		1231.02		11.44	-1.07E-01		7.98E-01
+	IR-192	308.46		29.68	3.04E-02	1.02E-01	1.65E-01
		468.07		48.10	1.48E-02		1.02E-01
+	HG-203	279.19		77.30	3.40E-02	7.72E-02	7.72E-02
+	BI-207	569.67		97.72	2.34E-03	4.06E-02	4.06E-02
		1063.62		74.90	-3.50E-05		8.03E-02
+	TL-208	583.14	*	30.22	5.62E-01	9.89E-02	2.12E-01
		860.37		4.48	9.54E-01		1.42E+00
		2614.66	*	35.85	4.99E-01		9.89E-02
+	BI-210M	262.00		45.00	2.24E-02	8.50E-02	8.50E-02
		300.00		23.00	2.42E-01		1.90E-01
+	PB-210	46.50	*	4.25	2.94E+00	2.48E+00	2.48E+00
+	PB-211	404.84		2.90	2.63E-01	1.38E+00	1.38E+00
		831.96		2.90	-8.02E-01		1.91E+00
+	BI-212	727.17	*	11.80	5.79E-01	4.50E-01	4.50E-01
		1620.62		2.75	-3.72E-02		1.59E+00
+	PB-212	238.63	*	44.60	6.21E-01	1.68E-01	1.68E-01
		300.09	*	3.41	8.55E-01		1.97E+00
+	BI-214	609.31	*	46.30	4.75E-01	1.33E-01	1.33E-01
		1120.29	*	15.10	4.68E-01		6.40E-01
		1764.49	*	15.80	6.27E-01		3.36E-01
		2204.22	*	4.98	7.06E-01		1.59E-01
+	PB-214	295.21	*	19.19	7.25E-01	1.59E-01	3.49E-01
		351.92	*	37.19	6.16E-01		1.59E-01
+	RN-219	401.80		6.50	-2.93E-01	5.77E-01	5.77E-01
+	RA-223	323.87		3.88	3.25E-01	1.05E+00	1.05E+00
+	RA-224	240.98		3.95	5.93E+00	1.93E+00	1.93E+00
+	RA-225	40.00		31.00	7.09E-01	1.30E+00	1.30E+00
+	RA-226	186.21		3.28	1.68E+00	1.42E+00	1.42E+00
+	TH-227	50.10		8.40	-3.69E-01	4.46E-01	5.11E-01
		236.00		11.50	-3.31E+00		4.46E-01
		256.20		6.30	9.97E-02		6.51E-01
+	AC-228	338.32	*	11.40	7.04E-01	3.58E-01	6.66E-01
		911.07	*	27.70	6.98E-01		3.58E-01

00407

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	6.48E-01	3.58E-01	5.22E-01
+	TH-230	48.44		16.90	-2.46E-01	2.95E-01	2.95E-01
		62.85		4.60	9.10E-01		8.95E-01
		67.67		0.37	1.12E+00		9.07E+00
+	PA-231	283.67		1.60	6.18E-01	1.62E+00	2.38E+00
		302.67		2.30	-3.20E-01		1.62E+00
+	TH-231	25.64		14.70	2.90E+00	4.79E-01	1.13E+01
		84.21		6.40	1.72E-01		4.79E-01
+	PA-233	311.98		38.60	6.45E-02	2.04E-01	2.04E-01
+	PA-234	131.20		20.40	5.72E-02	1.77E-01	1.77E-01
		733.99		8.80	-1.86E-02		6.01E-01
		946.00		12.00	-5.88E-02		4.87E-01
+	PA-234M	1001.03		0.92	0.00E+00	7.52E+00	7.52E+00
+	TH-234	63.29		3.80	1.09E+00	1.08E+00	1.08E+00
+	U-235	143.76		10.50	9.39E-02	3.54E-01	3.54E-01
		163.35		4.70	9.46E-01		8.07E-01
		205.31		4.70	1.84E-01		8.37E-01
+	NP-237	86.50		12.60	-7.37E-03	3.37E-01	3.37E-01
+	NP-239	106.10		22.70	3.43E+02	4.72E+02	4.72E+02
		228.18		10.70	-1.78E+01		1.18E+03
		277.60		14.10	1.62E+02		8.60E+02
+	AM-241	59.54		35.90	-3.21E-02	1.04E-01	1.04E-01
+	AM-243	74.67		66.00	-1.05E-01	6.87E-02	6.87E-02
+	CM-243	209.75		3.29	8.86E-01	2.85E-01	1.25E+00
		228.14		10.60	-5.91E-03		3.91E-01
		277.60		14.00	5.36E-02		2.85E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	4.86E-01	4.86E-01	-1.68E-01	2.24E-01
	NA-22	1274.54		99.94	7.15E-02	7.15E-02	4.21E-02	3.27E-02
	NA-24	1368.53		99.99	7.75E+11	2.74E+11	-1.90E+11	3.45E+11
		2754.09		99.86	2.74E+11		-1.24E+11	8.65E+10
	AL-26	1808.65		99.76	5.06E-02	5.06E-02	-6.93E-03	2.15E-02
+	K-40	1460.81	*	10.67	6.90E-01	6.90E-01	1.56E+01	3.14E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	3.55E-02	3.55E-02	4.38E-03	1.71E-02
		78.34		96.00	5.05E-02		1.35E-01	2.47E-02
	SC-46	889.25		99.98	6.26E-02	6.26E-02	-1.19E-02	2.84E-02
		1120.51		99.99	1.14E-01		9.76E-02	5.36E-02
	V-48	983.52		99.98	1.82E-01	1.82E-01	3.26E-02	8.28E-02
		1312.10		97.50	2.15E-01		4.47E-02	9.74E-02
	CR-51	320.08		9.83	7.68E-01	7.68E-01	-3.48E-01	3.62E-01
	MN-54	834.83		99.97	6.12E-02	6.12E-02	-5.26E-03	2.83E-02
	CO-56	846.75		99.96	7.41E-02	7.41E-02	-1.67E-02	3.43E-02
		1037.75		14.03	5.06E-01		-2.06E-01	2.30E-01
		1238.25		67.00	1.73E-01		4.81E-02	8.07E-02
		1771.40		15.51	3.19E-01		-5.65E-02	1.29E-01
		2598.48		16.90	1.58E-01		-7.14E-03	4.99E-02
	CO-57	122.06		85.51	4.31E-02	4.31E-02	-1.11E-02	2.08E-02
		136.48		10.60	3.42E-01		-3.27E-02	1.65E-01
	CO-58	810.76		99.40	6.92E-02	6.92E-02	7.09E-03	3.18E-02
	FE-59	1099.22		56.50	1.60E-01	1.60E-01	-5.37E-03	7.29E-02
		1291.56		43.20	2.03E-01		-2.26E-02	9.09E-02
	CO-60	1173.22		100.00	7.39E-02	5.60E-02	3.13E-02	3.41E-02
		1332.49		100.00	5.60E-02		9.10E-03	2.49E-02
	ZN-65	1115.52		50.75	1.50E-01	1.50E-01	3.58E-02	6.90E-02
+	GA-67	93.31	*	35.70	7.14E+01	7.14E+01	4.74E+01	3.52E+01
		208.95	*	2.24	7.39E+02		3.87E+02	3.58E+02
		300.22	*	16.00	1.38E+02		5.98E+01	6.67E+01
	SE-75	121.11		16.70	2.46E-01	6.70E-02	4.24E-02	1.19E-01
		136.00		59.20	6.70E-02		-3.00E-02	3.23E-02
		264.65		59.80	6.94E-02		-1.22E-02	3.29E-02
		279.53		25.20	1.72E-01		-1.89E-01	8.17E-02
		400.65		11.40	3.98E-01		-2.92E-02	1.86E-01
	RB-82	776.52		13.00	7.59E-01	7.59E-01	6.17E-02	3.47E-01
	RB-83	520.41		46.00	1.10E-01	1.10E-01	2.09E-02	5.11E-02
		529.64		30.30	1.77E-01		-3.54E-02	8.22E-02
		552.65		16.40	2.88E-01		-6.53E-02	1.32E-01
	KR-85	513.99		0.43	1.16E+01	1.16E+01	-1.08E+01	5.44E+00
	SR-85	513.99		99.27	6.73E-02	6.73E-02	-6.31E-02	3.17E-02
	Y-88	898.02		93.40	6.85E-02	5.61E-02	-2.06E-02	3.13E-02
		1836.01		99.38	5.61E-02		2.24E-03	2.35E-02
	NB-93M	16.57		9.43	4.20E+03	4.20E+03	-1.13E+04	2.04E+03
	NB-94	702.63		100.00	5.29E-02	4.71E-02	-1.00E-02	2.46E-02
		871.10		100.00	4.71E-02		2.25E-02	2.13E-02
	NB-95	765.79		99.81	1.16E-01	1.16E-01	1.24E-01	5.46E-02
	NB-95M	235.69		25.00	3.85E+01	3.85E+01	-2.85E+02	1.86E+01
	ZR-95	724.18		43.70	1.91E-01	1.25E-01	2.18E-02	8.96E-02
		756.72		55.30	1.25E-01		3.12E-02	5.75E-02

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Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	181.06		6.20	6.04E+02	3.89E+02	3.58E+02	2.91E+02
		739.58		12.80	3.89E+02		7.46E+01	1.80E+02
		778.00		4.50	1.03E+03		-3.81E+02	4.72E+02
	RU-103	497.08		89.00	6.16E-02	6.16E-02	-2.46E-02	2.82E-02
	RU-106	621.84		9.80	5.53E-01	5.53E-01	2.06E-01	2.58E-01
	AG-108M	433.93		89.90	4.46E-02	4.46E-02	1.41E-02	2.09E-02
		614.37		90.40	5.48E-02		2.68E-03	2.55E-02
		722.95		90.50	6.12E-02		3.28E-03	2.85E-02
+	CD-109	88.03	*	3.72	2.18E+00	2.18E+00	1.76E+00	1.07E+00
	AG-110M	657.75		93.14	5.91E-02	5.91E-02	-9.78E-03	2.75E-02
		677.61		10.53	5.51E-01		1.48E-01	2.57E-01
		706.67		16.46	3.64E-01		9.12E-03	1.70E-01
		763.93		21.98	2.90E-01		-1.84E-01	1.35E-01
		884.67		71.63	8.33E-02		-3.50E-04	3.83E-02
		1384.27		23.94	2.08E-01		-2.67E-02	8.97E-02
	CD-113M	263.70		0.02	1.58E+02	1.58E+02	8.02E+00	7.47E+01
	SN-113	255.12		1.93	2.49E+00	7.23E-02	-4.37E-01	1.19E+00
		391.69		64.90	7.23E-02		2.79E-02	3.39E-02
	TE123M	159.00		84.10	4.84E-02	4.84E-02	-8.55E-03	2.32E-02
	SB-124	602.71		97.87	6.78E-02	6.78E-02	-1.38E-02	3.16E-02
		645.85		7.26	8.63E-01		9.14E-02	3.99E-01
		722.78		11.10	6.82E-01		3.66E-02	3.17E-01
		1691.02		49.00	1.36E-01		1.61E-02	5.80E-02
	I-125	35.49		6.49	3.77E+00	3.77E+00	-1.73E+00	1.82E+00
	SB-125	176.33		6.89	5.16E-01	1.40E-01	-4.46E-01	2.48E-01
		427.89		29.33	1.40E-01		-1.61E-02	6.54E-02
		463.38		10.35	4.69E-01		3.59E-01	2.21E-01
		600.56		17.80	2.85E-01		1.10E-02	1.33E-01
		635.90		11.32	5.35E-01		8.66E-02	2.52E-01
	SB-126	414.70		83.30	2.24E-01	2.24E-01	-2.73E-04	1.05E-01
		666.33		99.60	2.24E-01		-1.63E-01	1.04E-01
		695.00		99.60	2.51E-01		5.69E-02	1.17E-01
		720.50		53.80	4.41E-01		-2.63E-02	2.04E-01
+	SN-126	87.57	*	37.00	2.10E-01	2.10E-01	1.70E-01	1.04E-01
	SB-127	473.00		25.00	1.85E+01	1.85E+01	-2.08E-01	8.51E+00
		685.20		35.70	1.98E+01		3.84E+00	9.20E+00
		783.80		14.70	5.67E+01		4.00E+01	2.65E+01
	I-129	29.78		57.00	8.78E-01	8.78E-01	-7.53E-01	4.24E-01
		33.60		13.20	1.91E+00		1.43E-01	9.21E-01
		39.58		7.52	1.56E+00		8.50E-01	7.55E-01
	I-131	284.30		6.05	6.61E+00	5.03E-01	1.72E+00	3.14E+00
		364.48		81.20	5.03E-01		1.34E-01	2.37E-01
		636.97		7.26	8.51E+00		2.18E+00	4.00E+00
		722.89		1.80	3.22E+01		1.73E+00	1.50E+01
	TE-132	49.72		13.10	1.10E+02	1.55E+01	-7.93E+01	5.25E+01
		228.16		88.00	1.55E+01		-2.34E-01	7.43E+00
	BA-133	81.00		33.00	9.39E-02	6.42E-02	2.76E-02	4.52E-02
		302.84		17.80	2.10E-01		-4.16E-02	9.95E-02
		356.01		60.00	6.42E-02		-8.92E-03	3.02E-02
	I-133	529.87		86.30	1.38E+08	1.38E+08	-7.58E+07	6.38E+07
	XE-133	81.00		38.00	2.98E+00	2.98E+00	8.74E-01	1.44E+00
	CS-134	563.23		8.38	4.91E-01	5.54E-02	5.31E-02	2.26E-01
		569.32		15.43	2.63E-01		1.52E-02	1.21E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-134	604.70	97.60	5.54E-02	5.54E-02	-6.76E-03	2.60E-02
	795.84	85.40	7.54E-02		6.11E-02	3.52E-02
	801.93	8.73	6.90E-01		3.56E-01	3.20E-01
CS-135	268.24	16.00	2.57E-01	2.57E-01	1.33E-02	1.23E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	1.98E+00	2.19E-01	-7.28E-01	9.55E-01
	163.89	4.61	3.33E+00		-4.60E-01	1.60E+00
	176.55	13.56	1.09E+00		-3.02E-01	5.22E-01
	273.65	12.66	1.21E+00		-4.28E-01	5.75E-01
	340.57	48.50	3.95E-01		-3.20E-01	1.88E-01
	818.50	99.70	2.19E-01		-1.29E-02	1.01E-01
	1048.07	79.60	3.28E-01		-5.41E-02	1.50E-01
	1235.34	19.70	1.86E+00		2.98E-01	8.66E-01
CS-137	661.65	85.12	6.48E-02	6.48E-02	3.52E-02	3.03E-02
LA-138	788.74	34.00	1.66E-01	7.87E-02	4.42E-02	7.71E-02
	1435.80	66.00	7.87E-02		1.35E-02	3.43E-02
CE-139	165.85	80.35	4.96E-02	4.96E-02	-3.06E-02	2.38E-02
BA-140	162.64	6.70	2.47E+00	6.37E-01	2.90E+00	1.19E+00
	304.84	4.50	3.52E+00		4.63E-01	1.66E+00
	423.70	3.20	5.96E+00		2.76E+00	2.80E+00
	437.55	2.00	8.84E+00		-8.67E-01	4.13E+00
	537.32	25.00	6.37E-01		-5.15E-01	2.92E-01
LA-140	328.77	20.50	9.04E-01	2.93E-01	9.10E-01	4.29E-01
	487.03	45.50	3.80E-01		-1.76E-01	1.77E-01
	815.85	23.50	9.02E-01		-4.94E-01	4.12E-01
	1596.49	95.49	2.93E-01		-4.26E-02	1.31E-01
CE-141	145.44	48.40	1.38E-01	1.38E-01	8.50E-02	6.67E-02
CE-143	57.36	11.80	3.03E+05	1.15E+05	7.79E+04	1.46E+05
	293.26	42.00	1.15E+05		-7.02E+04	5.54E+04
	664.55	5.20	9.72E+05		3.19E+05	4.54E+05
CE-144	133.54	10.80	3.45E-01	3.45E-01	1.71E-01	1.66E-01
PM-144	476.78	42.00	8.91E-02	5.32E-02	-3.07E-02	4.10E-02
	618.01	98.60	5.32E-02		-1.31E-03	2.48E-02
	696.49	99.49	5.73E-02		1.25E-02	2.67E-02
PM-145	36.85	21.70	7.02E-01	3.60E-01	-6.83E-02	3.38E-01
	37.36	39.70	3.60E-01		-3.51E-02	1.74E-01
	42.30	15.10	5.67E-01		-8.71E-02	2.73E-01
	72.40	2.31	1.50E+00		8.07E-03	7.27E-01
PM-146	453.90	39.94	1.25E-01	1.25E-01	5.06E-02	5.89E-02
	735.90	14.01	3.75E-01		5.00E-02	1.74E-01
	747.13	13.10	3.99E-01		9.04E-02	1.84E-01
ND-147	91.11	28.90	8.21E-01	8.21E-01	-1.35E+00	4.00E-01
	531.02	13.10	1.75E+00		3.67E-01	8.10E-01
PM-149	285.90	3.10	6.04E+03	6.04E+03	-3.18E+03	2.86E+03
EU-152	121.78	20.50	1.68E-01	1.68E-01	-4.32E-02	8.12E-02
	244.69	5.40	7.45E-01		-8.34E-01	3.56E-01
	344.27	19.13	1.90E-01		-3.52E-02	8.91E-02
	778.89	9.20	5.39E-01		-9.85E-02	2.47E-01
	964.01	10.40	6.84E-01		1.69E-01	3.19E-01
	1085.78	7.22	8.38E-01		2.76E-01	3.82E-01
	1112.02	9.60	7.26E-01		1.67E-01	3.35E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	3.62E-01	1.68E-01	7.17E-03	1.59E-01
	GD-153	97.43		31.30	1.19E-01	1.19E-01	1.98E-02	5.78E-02
		103.18		22.20	1.63E-01		-6.51E-02	7.88E-02
	EU-154	123.07		40.50	8.55E-02	8.55E-02	5.03E-02	4.13E-02
		723.30		19.70	2.83E-01		1.52E-02	1.32E-01
		873.19		11.50	3.75E-01		6.49E-02	1.68E-01
		996.32		10.30	5.83E-01		-1.27E-02	2.67E-01
		1004.76		17.90	4.06E-01		-2.10E-02	1.89E-01
		1274.45		35.50	1.99E-01		1.17E-01	9.07E-02
	EU-155	86.50		30.90	1.39E-01	1.39E-01	-3.04E-03	6.76E-02
		105.30		20.70	1.68E-01		1.08E-02	8.11E-02
	EU-156	811.77		10.40	1.70E+00	1.70E+00	1.06E-01	7.82E-01
		1153.47		7.20	3.34E+00		2.99E-01	1.54E+00
		1230.71		8.90	3.02E+00		1.39E-01	1.39E+00
	HO-166M	184.41		72.60	6.30E-02	6.30E-02	2.80E-02	3.05E-02
		280.45		29.60	1.26E-01		-1.38E-01	5.95E-02
		410.94		11.10	3.66E-01		-4.55E-02	1.72E-01
		711.69		54.10	9.95E-02		-2.29E-02	4.62E-02
	TM-171	66.72		0.14	2.48E+01	2.48E+01	7.60E+00	1.19E+01
	HF-172	81.75		4.52	6.85E-01	3.02E-01	-3.03E-01	3.30E-01
		125.81		11.30	3.02E-01		-3.31E-01	1.46E-01
	LU-172	181.53		20.60	3.10E+00	1.71E+00	-2.15E+00	1.49E+00
		810.06		16.63	5.31E+00		5.44E-01	2.44E+00
		912.12		15.25	1.14E+01		2.10E+01	5.44E+00
		1093.66		62.50	1.71E+00		7.40E-01	7.82E-01
	LU-173	100.72		5.24	6.83E-01	1.97E-01	6.62E-02	3.31E-01
		272.11		21.20	1.97E-01		8.22E-02	9.39E-02
	HF-175	343.40		84.00	5.93E-02	5.93E-02	-4.32E-03	2.79E-02
	LU-176	88.34		13.30	3.25E-01	3.94E-02	2.80E-01	1.58E-01
		201.83		86.00	4.56E-02		-4.67E-03	2.19E-02
		306.78		94.00	3.94E-02		5.27E-03	1.86E-02
	TA-182	67.75		41.20	9.60E-02	9.60E-02	1.19E-02	4.62E-02
		1121.30		34.90	3.08E-01		2.51E-01	1.45E-01
		1189.05		16.23	5.32E-01		6.35E-02	2.45E-01
		1221.41		26.98	3.30E-01		8.32E-02	1.52E-01
		1231.02		11.44	7.98E-01		-1.07E-01	3.69E-01
	IR-192	308.46		29.68	1.65E-01	1.02E-01	3.04E-02	7.80E-02
		468.07		48.10	1.02E-01		1.48E-02	4.74E-02
	HG-203	279.19		77.30	7.72E-02	7.72E-02	3.40E-02	3.67E-02
	BI-207	569.67		97.72	4.06E-02	4.06E-02	2.34E-03	1.87E-02
		1063.62		74.90	8.03E-02		-3.50E-05	3.66E-02
+	TL-208	583.14	*	30.22	2.12E-01	9.89E-02	5.62E-01	1.01E-01
		860.37		4.48	1.42E+00		9.54E-01	6.61E-01
		2614.66	*	35.85	9.89E-02		4.99E-01	3.87E-02
	BI-210M	262.00		45.00	8.50E-02	8.50E-02	2.24E-02	4.05E-02
		300.00		23.00	1.90E-01		2.42E-01	9.07E-02
+	PB-210	46.50	*	4.25	2.48E+00	2.48E+00	2.94E+00	1.21E+00
	PB-211	404.84		2.90	1.38E+00	1.38E+00	2.63E-01	6.46E-01
		831.96		2.90	1.91E+00		-8.02E-01	8.81E-01
+	BI-212	727.17	*	11.80	4.50E-01	4.50E-01	5.79E-01	2.09E-01
		1620.62		2.75	1.59E+00		-3.72E-02	6.68E-01
+	PB-212	238.63	*	44.60	1.68E-01	1.68E-01	6.21E-01	8.23E-02
		300.09	*	3.41	1.97E+00		8.55E-01	9.53E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	1.33E-01	1.33E-01	4.75E-01	6.29E-02
		1120.29	*	15.10	6.40E-01		4.68E-01	3.02E-01
		1764.49	*	15.80	3.36E-01		6.27E-01	1.44E-01
		2204.22	*	4.98	1.59E-01		7.06E-01	0.00E+00
+	PB-214	295.21	*	19.19	3.49E-01	1.59E-01	7.25E-01	1.69E-01
		351.92	*	37.19	1.59E-01		6.16E-01	7.66E-02
	RN-219	401.80		6.50	5.77E-01	5.77E-01	-2.93E-01	2.69E-01
	RA-223	323.87		3.88	1.05E+00	1.05E+00	3.25E-01	4.96E-01
	RA-224	240.98		3.95	1.93E+00	1.93E+00	5.93E+00	9.42E-01
	RA-225	40.00		31.00	1.30E+00	1.30E+00	7.09E-01	6.30E-01
	RA-226	186.21		3.28	1.42E+00	1.42E+00	1.68E+00	6.86E-01
	TH-227	50.10		8.40	5.11E-01	4.46E-01	-3.69E-01	2.44E-01
		236.00		11.50	4.46E-01		-3.31E+00	2.16E-01
		256.20		6.30	6.51E-01		9.97E-02	3.11E-01
+	AC-228	338.32	*	11.40	6.66E-01	3.58E-01	7.04E-01	3.23E-01
		911.07	*	27.70	3.58E-01		6.98E-01	1.71E-01
		969.11	*	16.60	5.22E-01		6.48E-01	2.47E-01
	TH-230	48.44		16.90	2.95E-01	2.95E-01	-2.46E-01	1.41E-01
		62.85		4.60	8.95E-01		9.10E-01	4.33E-01
		67.67		0.37	9.07E+00		1.12E+00	4.37E+00
	PA-231	283.67		1.60	2.38E+00	1.62E+00	6.18E-01	1.13E+00
		302.67		2.30	1.62E+00		-3.20E-01	7.66E-01
	TH-231	25.64		14.70	1.13E+01	4.79E-01	2.90E+00	5.44E+00
		84.21		6.40	4.79E-01		1.72E-01	2.31E-01
	PA-233	311.98		38.60	2.04E-01	2.04E-01	6.45E-02	9.65E-02
	PA-234	131.20		20.40	1.77E-01	1.77E-01	5.72E-02	8.54E-02
		733.99		8.80	6.01E-01		-1.86E-02	2.79E-01
		946.00		12.00	4.87E-01		-5.88E-02	2.24E-01
	PA-234M	1001.03		0.92	7.52E+00	7.52E+00	0.00E+00	3.49E+00
	TH-234	63.29		3.80	1.08E+00	1.08E+00	1.09E+00	5.20E-01
	U-235	143.76		10.50	3.54E-01	3.54E-01	9.39E-02	1.71E-01
		163.35		4.70	8.07E-01		9.46E-01	3.89E-01
		205.31		4.70	8.37E-01		1.84E-01	4.02E-01
	NP-237	86.50		12.60	3.37E-01	3.37E-01	-7.37E-03	1.64E-01
	NP-239	106.10		22.70	4.72E+02	4.72E+02	3.43E+02	2.28E+02
		228.18		10.70	1.18E+03		-1.78E+01	5.65E+02
		277.60		14.10	8.60E+02		1.62E+02	4.09E+02
	AM-241	59.54		35.90	1.04E-01	1.04E-01	-3.21E-02	5.01E-02
	AM-243	74.67		66.00	6.87E-02	6.87E-02	-1.05E-01	3.35E-02
	CM-243	209.75		3.29	1.25E+00	2.85E-01	8.86E-01	6.02E-01
		228.14		10.60	3.91E-01		-5.91E-03	1.87E-01
		277.60		14.00	2.85E-01		5.36E-02	1.35E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-8 090-091

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	98
9:	463	1018	948	356	472	1785	379	120
17:	125	91	109	111	110	112	103	92
25:	90	98	82	79	71	94	83	118
33:	89	96	89	75	79	96	84	103
41:	89	68	79	91	93	102	131	80
49:	47	49	56	57	76	81	55	63
57:	67	78	68	85	65	81	109	117
65:	79	61	86	84	64	81	90	90
73:	97	98	257	145	292	234	73	83
81:	88	70	73	90	80	73	124	142
89:	61	101	83	91	148	122	64	47
97:	49	70	71	78	57	54	50	55
105:	73	80	44	63	51	62	47	57
113:	48	68	50	52	61	55	67	54
121:	53	50	62	54	53	39	49	53
129:	69	58	37	54	64	50	44	46
137:	48	51	48	48	52	49	57	65
145:	55	46	49	42	54	43	42	32
153:	51	63	38	56	43	41	43	36
161:	47	46	63	46	42	28	47	36
169:	39	41	51	34	48	47	38	31
177:	34	36	49	37	49	45	46	37
185:	55	124	59	38	40	39	39	34
193:	34	40	39	55	39	43	39	38
201:	41	40	37	41	42	40	34	27
209:	62	48	36	34	30	28	37	42
217:	37	39	28	44	32	26	36	40
225:	38	43	33	37	27	46	37	35
233:	42	43	25	37	36	137	332	76
241:	69	76	55	25	32	22	24	31
249:	28	36	26	28	35	29	28	37
257:	25	36	25	32	26	32	20	20
265:	22	20	27	35	24	40	34	27
273:	16	20	22	26	36	22	26	20
281:	25	18	32	17	23	25	17	22
289:	22	25	17	15	24	32	124	93
297:	13	21	26	42	29	24	14	21
305:	12	23	23	21	18	16	22	15
313:	22	31	18	36	22	20	19	19
321:	18	21	25	23	23	17	19	42
329:	17	15	23	10	22	16	12	20
337:	29	70	52	25	23	15	14	22
345:	13	14	16	10	22	14	62	188
353:	63	22	16	16	13	17	19	17
361:	15	20	18	11	19	16	14	15

369:	16	23	17	20	12	16	17	19

Sample Title: FEEBRIS1D-8 090-091

Channel								
377:	14	14	11	17	19	11	17	9
385:	11	17	17	20	23	14	12	16
393:	20	17	12	18	14	23	15	12
401:	20	13	12	10	19	18	17	14
409:	24	15	11	12	15	15	19	16
417:	11	17	18	14	11	15	12	19
425:	18	21	15	11	15	9	18	9
433:	19	9	20	12	7	12	18	16
441:	14	13	17	8	12	16	13	14
449:	19	16	16	21	19	22	21	17
457:	16	16	10	8	15	18	27	16
465:	14	11	13	7	9	15	9	9
473:	8	8	9	6	7	12	12	18
481:	11	8	20	5	12	10	15	10
489:	9	14	18	3	15	16	9	3
497:	6	10	11	7	5	14	7	12
505:	9	12	9	10	20	37	70	40
513:	14	10	14	7	18	15	16	9
521:	6	8	4	12	14	16	16	15
529:	10	8	10	9	16	11	6	9
537:	10	12	3	15	11	10	8	11
545:	11	12	8	11	10	9	9	9
553:	5	10	8	11	7	8	6	9
561:	11	10	9	9	7	8	10	7
569:	10	9	8	11	7	13	10	9
577:	7	9	7	10	7	29	83	47
585:	17	10	7	8	11	11	17	6
593:	11	4	9	14	9	11	9	8
601:	10	10	9	5	10	10	4	26
609:	114	72	11	6	10	11	8	9
617:	8	10	8	6	14	9	7	8
625:	15	8	4	7	5	13	14	9
633:	14	11	12	20	13	9	9	12
641:	11	9	9	4	7	12	4	7
649:	6	3	5	8	11	7	7	7
657:	6	5	9	11	15	13	7	10
665:	6	8	9	5	8	9	10	4
673:	6	9	10	8	13	5	11	8
681:	8	11	8	12	11	6	5	6
689:	10	4	12	8	7	11	11	9
697:	10	7	7	8	4	14	9	6
705:	10	10	10	13	6	11	7	6
713:	11	5	8	11	3	11	7	7
721:	7	11	7	5	8	16	24	21
729:	9	5	6	13	6	5	11	5
737:	8	13	4	8	1	12	4	6
745:	5	8	12	7	8	4	4	5
753:	6	7	2	11	10	6	6	10
761:	3	10	15	7	5	14	10	15
769:	19	5	3	6	6	3	7	7
777:	5	2	8	4	7	9	10	7
785:	15	8	11	8	2	7	4	4
793:	7	12	19	14	6	6	4	8

801:	3	11	13	11	8	5	7	6

Sample Title: FEEBRIS1D-8 090-091

Channel								
809:	5	6	7	10	4	4	7	4
817:	5	5	8	6	8	6	11	8
825:	6	6	6	7	5	10	8	9
833:	7	5	4	11	10	6	8	6
841:	16	4	6	10	4	10	7	7
849:	8	9	6	6	3	7	3	4
857:	4	2	5	19	14	9	8	5
865:	8	4	5	5	7	4	4	4
873:	6	1	2	4	8	10	10	10
881:	7	1	8	7	6	10	4	2
889:	4	2	8	4	6	10	5	3
897:	4	6	11	5	5	4	8	7
905:	8	7	7	6	5	22	58	47
913:	11	7	5	7	5	3	9	4
921:	7	3	7	0	9	4	2	7
929:	7	5	6	6	6	9	12	6
937:	5	5	5	9	3	1	4	7
945:	6	8	4	9	5	10	11	6
953:	4	6	6	3	0	8	8	6
961:	4	6	5	12	20	8	8	24
969:	43	20	7	4	2	4	5	4
977:	9	8	4	3	5	7	5	5
985:	6	5	1	5	4	9	7	4
993:	4	3	8	10	6	3	7	5
1001:	16	7	12	6	11	5	4	8
1009:	13	6	7	6	5	5	7	4
1017:	6	6	3	1	8	3	7	6
1025:	0	8	5	6	4	4	3	9
1033:	7	1	5	4	5	10	6	2
1041:	5	5	4	11	8	3	9	5
1049:	4	5	7	6	6	2	3	4
1057:	10	7	6	7	7	7	1	5
1065:	2	8	6	3	4	3	6	7
1073:	4	5	5	1	10	7	7	7
1081:	4	6	3	6	7	7	5	2
1089:	2	3	8	7	7	4	6	5
1097:	6	4	6	1	7	5	6	4
1105:	6	5	5	5	11	2	5	7
1113:	10	7	5	5	7	7	10	25
1121:	15	8	11	7	8	6	3	6
1129:	6	5	5	8	11	4	7	7
1137:	3	5	11	10	6	5	3	7
1145:	14	6	6	9	5	6	4	6
1153:	10	9	4	5	2	8	5	9
1161:	8	6	4	4	10	9	2	5
1169:	5	5	4	6	7	10	10	6
1177:	4	5	9	2	4	7	2	7
1185:	3	6	4	8	10	7	6	6
1193:	3	11	7	12	8	5	3	9
1201:	3	15	9	7	7	5	8	9
1209:	11	8	5	4	7	7	11	10
1217:	11	2	8	7	11	4	11	5
1225:	8	4	10	5	9	6	8	7

1233:	5	10	5	12	10	15	11	8

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Channel								
1241:	9	7	11	6	8	8	8	6
1249:	1	3	2	6	6	3	3	4
1257:	8	4	9	6	6	5	6	7
1265:	5	5	5	6	4	1	3	5
1273:	10	5	7	4	4	2	4	6
1281:	3	3	7	5	12	5	7	4
1289:	2	6	4	5	0	3	3	2
1297:	1	3	0	1	2	3	3	7
1305:	4	4	3	0	7	3	3	2
1313:	2	8	5	4	6	3	2	3
1321:	3	2	3	3	4	1	3	3
1329:	1	3	7	3	1	1	5	0
1337:	4	2	1	1	4	1	2	3
1345:	4	4	5	3	2	0	2	4
1353:	3	0	2	1	5	4	3	1
1361:	1	6	3	5	3	2	4	6
1369:	2	2	3	4	4	4	2	3
1377:	6	4	2	3	0	2	2	5
1385:	3	0	1	3	1	1	4	1
1393:	2	1	1	3	2	2	1	1
1401:	2	4	2	0	1	4	4	5
1409:	1	3	1	3	2	1	3	0
1417:	3	2	2	3	1	0	1	3
1425:	1	2	1	3	2	4	1	1
1433:	3	2	2	1	2	5	1	1
1441:	1	3	4	2	5	3	2	2
1449:	4	3	2	2	2	0	3	2
1457:	1	13	51	209	277	121	16	3
1465:	2	0	2	1	3	2	1	2
1473:	3	4	0	0	3	2	1	1
1481:	3	1	1	1	1	1	1	0
1489:	2	3	0	2	1	1	0	1
1497:	2	2	1	0	3	0	0	1
1505:	1	0	0	3	7	4	2	1
1513:	2	0	1	3	1	1	3	0
1521:	1	1	3	1	2	4	2	0
1529:	0	0	1	1	0	1	1	2
1537:	1	3	1	3	1	0	3	1
1545:	0	0	3	0	2	3	2	0
1553:	2	1	0	1	2	3	1	3
1561:	0	1	0	1	1	1	1	1
1569:	1	1	0	0	2	0	0	1
1577:	1	0	1	4	2	1	2	1
1585:	3	5	4	10	3	3	2	2
1593:	5	4	3	0	2	2	1	3
1601:	1	1	0	0	3	1	1	2
1609:	3	0	0	1	2	0	1	2
1617:	0	0	1	1	3	0	1	1
1625:	2	1	3	1	1	1	2	2
1633:	0	0	0	1	2	0	1	1
1641:	0	1	1	4	0	2	3	0
1649:	2	0	0	2	3	1	0	4
1657:	0	0	2	2	3	0	3	1

1665:	1	2	2	3	1	1	1	2

Sample Title: FEEBRIS1D-8 090-091

Channel								
1673:	0	1	0	1	0	1	0	1
1681:	0	2	0	0	0	3	1	1
1689:	1	0	3	1	1	0	2	1
1697:	0	1	1	1	1	1	0	0
1705:	1	0	2	1	1	3	1	0
1713:	1	0	3	1	1	1	1	2
1721:	1	1	0	1	2	2	2	3
1729:	8	5	2	0	2	0	3	0
1737:	0	2	1	1	0	0	0	3
1745:	0	0	0	2	0	0	1	1
1753:	2	0	2	0	0	0	1	0
1761:	1	2	9	16	11	3	1	1
1769:	1	0	1	0	1	0	1	1
1777:	2	1	0	0	2	0	0	2
1785:	1	1	0	0	1	2	4	1
1793:	0	1	1	0	0	0	1	0
1801:	1	2	1	2	0	1	2	0
1809:	1	0	3	2	1	2	2	2
1817:	0	1	0	1	0	1	1	1
1825:	0	1	0	0	1	0	1	2
1833:	1	1	0	2	0	0	2	2
1841:	2	0	0	1	1	1	3	2
1849:	3	2	0	1	3	0	0	0
1857:	1	2	0	1	0	2	1	1
1865:	0	1	1	2	0	1	2	1
1873:	1	0	1	1	3	0	0	3
1881:	2	0	0	1	1	0	1	2
1889:	0	0	1	2	1	0	0	0
1897:	1	1	1	1	0	1	1	0
1905:	1	0	0	0	0	0	2	0
1913:	0	0	0	0	1	2	0	0
1921:	1	0	1	0	0	1	1	4
1929:	0	0	0	0	0	0	0	0
1937:	0	0	1	0	6	0	1	0
1945:	0	0	2	1	1	1	1	0
1953:	0	1	0	0	1	3	1	0
1961:	1	0	0	0	0	2	0	1
1969:	0	0	0	2	0	0	0	1
1977:	0	1	1	0	1	0	0	1
1985:	3	2	0	1	1	0	0	0
1993:	0	1	1	0	0	0	2	0
2001:	0	2	0	0	0	1	1	0
2009:	2	1	2	1	1	2	1	2
2017:	0	1	1	2	0	0	1	0
2025:	2	1	3	1	0	1	0	0
2033:	2	0	2	0	0	1	0	1
2041:	0	0	0	0	0	0	1	1
2049:	0	1	1	1	0	1	0	2
2057:	2	1	0	4	0	0	1	1
2065:	1	3	0	1	0	2	1	0
2073:	1	0	0	2	1	1	1	2
2081:	0	0	1	0	1	4	1	0
2089:	1	1	0	0	1	0	0	0

2097:	0	0	1	2	0	1	4	5

Sample Title: FEEBRIS1D-8 090-091

Channel								
2105:	0	2	1	1	2	0	0	0
2113:	0	1	1	1	1	1	3	2
2121:	2	0	0	0	0	0	0	1
2129:	1	0	1	0	2	2	1	1
2137:	0	1	2	0	0	0	0	0
2145:	0	2	0	0	1	3	0	1
2153:	1	0	1	4	0	0	0	0
2161:	3	0	0	0	2	0	0	0
2169:	2	1	0	2	0	2	0	1
2177:	1	1	0	0	0	0	0	1
2185:	0	0	0	1	0	1	0	0
2193:	1	1	0	1	1	0	0	0
2201:	0	2	4	4	2	0	0	1
2209:	0	0	0	0	2	1	0	0
2217:	1	0	0	2	1	1	3	0
2225:	0	0	2	2	1	0	1	1
2233:	1	2	1	0	1	1	2	0
2241:	1	0	1	2	1	0	2	2
2249:	2	2	0	1	1	1	0	1
2257:	1	1	1	1	1	0	2	2
2265:	0	1	1	0	1	1	0	1
2273:	0	0	1	1	2	0	1	1
2281:	1	1	1	0	2	0	0	0
2289:	0	3	1	1	0	2	1	1
2297:	2	0	2	1	0	1	1	1
2305:	1	0	0	2	2	2	1	1
2313:	0	2	2	2	0	0	3	0
2321:	0	1	0	1	0	0	1	0
2329:	1	1	1	1	2	1	1	1
2337:	0	1	0	1	1	1	0	1
2345:	1	0	3	0	0	0	1	0
2353:	0	2	1	0	0	0	1	2
2361:	0	0	0	1	0	0	0	0
2369:	1	1	1	0	0	1	0	0
2377:	3	1	0	1	1	0	0	1
2385:	0	2	1	0	0	0	0	0
2393:	0	0	1	2	1	0	0	0
2401:	0	0	1	0	2	0	0	1
2409:	1	3	0	0	1	0	0	0
2417:	0	1	0	0	1	0	0	1
2425:	2	3	0	1	1	1	0	0
2433:	1	1	1	0	0	0	1	1
2441:	3	1	0	0	2	1	2	1
2449:	1	0	1	0	1	0	0	0
2457:	0	0	1	0	0	1	0	1
2465:	0	2	3	0	0	2	1	0
2473:	0	0	2	0	0	0	2	0
2481:	1	0	0	0	1	2	0	0
2489:	0	0	0	0	1	0	0	0
2497:	0	0	1	0	1	0	0	0
2505:	0	1	1	0	0	1	1	0
2513:	0	0	0	0	0	0	0	1
2521:	0	0	0	0	0	0	1	2

2529:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-8 090-091

Channel								
2537:	0	0	0	0	1	1	1	0
2545:	0	0	0	0	2	0	0	0
2553:	1	0	0	2	3	1	1	0
2561:	0	0	0	1	0	0	0	0
2569:	0	1	1	1	0	0	0	0
2577:	1	0	1	0	2	0	0	1
2585:	1	1	0	0	0	0	0	0
2593:	0	0	0	0	0	0	1	0
2601:	0	0	1	0	0	0	0	0
2609:	1	1	1	10	19	16	15	6
2617:	2	0	0	0	1	0	0	1
2625:	0	0	0	1	1	0	0	0
2633:	1	2	0	0	0	0	0	0
2641:	0	0	0	0	0	1	0	0
2649:	1	0	0	0	0	0	1	0
2657:	0	0	1	2	0	2	0	0
2665:	0	1	1	1	0	0	0	0
2673:	1	0	0	0	0	1	0	0
2681:	0	1	2	0	1	0	0	0
2689:	0	0	0	1	0	0	0	0
2697:	0	0	0	0	0	0	0	1
2705:	0	0	1	0	0	0	0	0
2713:	0	1	0	0	1	0	1	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	1	1	0	1	0	0
2737:	1	0	0	0	0	0	0	0
2745:	0	0	0	1	0	0	0	0
2753:	0	1	0	0	0	0	2	0
2761:	0	0	0	0	0	0	0	0
2769:	1	0	0	0	0	0	0	0
2777:	0	1	1	0	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	1	0	0	1	0	0	1
2801:	0	1	1	0	0	1	1	0
2809:	0	0	2	0	1	0	0	0
2817:	0	0	1	1	0	0	0	0
2825:	0	0	0	0	1	1	0	0
2833:	0	0	0	1	0	0	1	0
2841:	0	0	0	0	1	0	0	0
2849:	0	0	0	1	0	0	1	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	1	0	0	0	0
2873:	0	0	0	0	0	0	0	1
2881:	1	1	0	0	0	1	0	0
2889:	0	0	1	0	0	0	0	1
2897:	0	0	0	0	1	0	0	0
2905:	0	0	2	0	1	0	1	0
2913:	1	0	0	0	1	0	0	0
2921:	0	0	1	0	0	0	0	0
2929:	0	0	0	0	0	0	1	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	1	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-8 090-091

Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	1
2993:	0	0	0	0	0	2	1	1
3001:	1	0	0	0	0	0	0	0
3009:	1	0	0	0	0	0	0	0
3017:	1	0	0	0	0	0	1	0
3025:	0	0	0	0	1	0	0	0
3033:	0	0	0	2	0	0	0	0
3041:	0	1	0	0	0	1	0	1
3049:	0	0	0	0	0	0	0	0
3057:	0	0	1	1	0	0	0	0
3065:	0	0	0	0	0	1	0	1
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	2	0	0	0	0
3089:	1	1	0	0	0	0	1	1
3097:	0	1	0	0	0	0	0	1
3105:	0	0	0	0	1	1	0	0
3113:	0	0	0	1	0	0	1	0
3121:	0	1	0	0	0	0	0	0
3129:	0	1	0	0	0	0	0	2
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	0	0	0	0
3153:	0	1	1	0	0	0	0	0
3161:	0	1	0	0	0	2	1	0
3169:	0	1	0	0	0	0	1	1
3177:	0	0	1	1	0	0	0	1
3185:	0	0	0	0	1	0	0	0
3193:	0	1	1	0	0	0	0	0
3201:	0	0	0	0	0	1	0	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	1	0	0	1	0	1
3225:	0	0	0	0	0	0	0	0
3233:	0	0	1	2	0	0	1	0
3241:	0	0	1	0	0	1	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	1	0	1	0	0	0	0	0
3281:	0	0	0	1	0	0	0	0
3289:	0	0	0	0	1	0	0	1
3297:	0	0	0	0	1	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	2	1	1	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	1	0	1	1
3337:	0	1	0	0	0	0	0	0
3345:	0	0	0	1	0	0	0	0
3353:	0	0	0	0	0	0	1	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	1	0	0	0	0
3377:	0	0	0	0	1	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	1	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-8 090-091

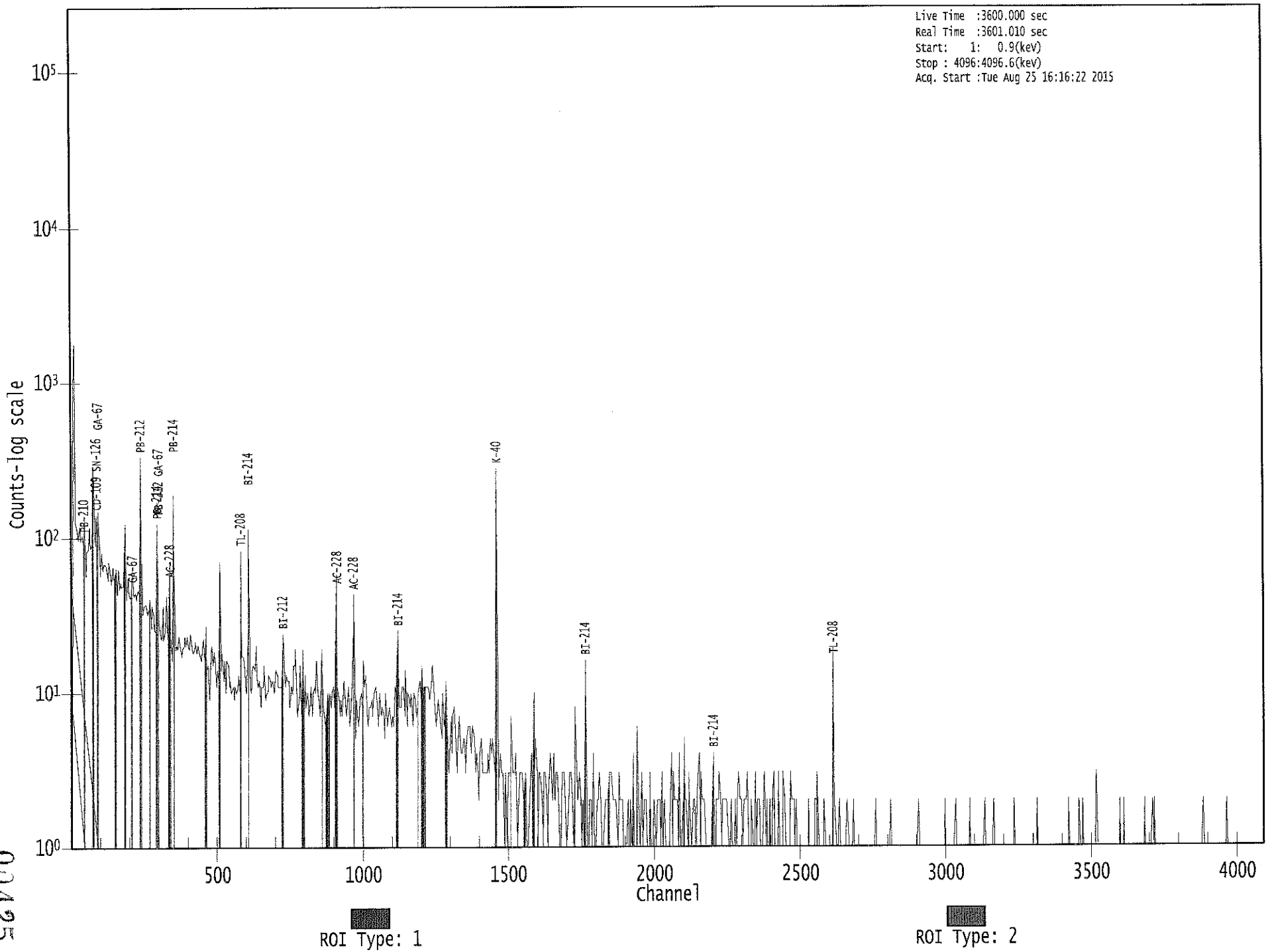
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	1	0	0
3417:	0	0	0	0	0	2	0	1
3425:	1	0	0	0	0	0	0	0
3433:	0	0	0	0	0	1	0	0
3441:	1	0	1	0	0	0	0	0
3449:	0	0	0	0	0	0	0	1
3457:	0	2	1	0	0	0	1	0
3465:	0	0	0	0	0	2	2	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	1	1	0	0	0	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	2	3	1	0	0
3521:	1	1	1	0	0	0	0	0
3529:	0	0	0	0	0	1	0	1
3537:	0	0	0	1	0	0	0	0
3545:	0	0	1	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	1
3569:	1	0	0	1	1	0	0	0
3577:	0	0	0	0	1	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	2	0	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	2	2	0	1	0	0
3617:	1	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	1	0	0	0	0	0	0
3657:	0	1	0	1	0	0	1	0
3665:	1	0	1	0	0	0	1	0
3673:	0	0	0	0	0	0	0	0
3681:	0	1	0	2	0	0	0	0
3689:	0	0	1	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	2	0
3713:	0	0	0	1	2	1	0	0
3721:	0	0	0	0	0	1	0	0
3729:	0	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	1	0
3753:	0	0	0	0	0	0	0	0
3761:	0	1	0	1	0	0	1	0
3769:	1	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	1	0	0	0	0	0	0
3809:	0	1	0	0	0	0	0	0
3817:	0	0	0	1	0	0	0	0

3825:	0	0	1	0	0	1	0	0

Sample Title: FEEBRIS1D-8 090-091

Channel								
3833:	0	0	0	0	0	0	0	1
3841:	0	0	0	0	1	1	0	0
3849:	0	0	0	0	0	1	0	0
3857:	0	0	1	0	0	0	0	0
3865:	0	0	1	0	1	0	0	0
3873:	0	0	0	0	0	0	1	0
3881:	1	0	0	0	2	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	1	0	1	0	1
3905:	0	0	0	0	0	0	0	1
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	1
3929:	1	0	1	0	0	0	0	0
3937:	0	0	0	1	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	1	0	0	2	0	0	0
3969:	0	0	0	0	1	0	0	0
3977:	0	1	0	0	0	0	0	0
3985:	0	0	0	0	0	0	1	0
3993:	0	0	1	0	0	0	0	0
4001:	1	0	0	0	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	0	0	0	0	1
4025:	0	0	0	0	1	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	0	0	0	0	0	1	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	1	0	1	0	0	0	1	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	1	0	0	0	0	0

0000026408.CNF



00425

RWB 8/25/15

Apex-Gamma

Analysis Report for 1508002-06
FEEBRIS1D-4 061-062

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-06
Sample Description	: FEEBRIS1D-4 061-062
Sample Type	: SOIL
Sample Size	: 5.606E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:38:40AM
Acquisition Started	: 8/25/2015 4:23:57PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3613.3 seconds
Dead Time	: 0.37 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26410

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 5:24:12PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.54	46.78	0.0000	0.00
2	62.45	62.67	0.0000	0.00
3	76.29	76.51	0.0000	0.00
4	87.80	88.01	0.0000	0.00
5	178.77	178.93	0.0000	0.00
6	186.21	186.37	0.0000	0.00
7	210.35	210.50	0.0000	0.00
8	238.78	238.91	0.0000	0.00
9	241.94	242.06	0.0000	0.00
10	270.50	270.61	0.0000	0.00
11	295.41	295.51	0.0000	0.00
12	300.38	300.47	0.0000	0.00
13	327.06	327.14	0.0000	0.00
14	338.29	338.37	0.0000	0.00
15	352.08	352.15	0.0000	0.00
16	463.73	463.74	0.0000	0.00
17	479.85	479.85	0.0000	0.00
18	511.01	511.00	0.0000	0.00
19	536.52	536.50	0.0000	0.00
20	583.28	583.24	0.0000	0.00
21	609.64	609.59	0.0000	0.00
22	632.30	632.24	0.0000	0.00
23	728.04	727.93	0.0000	0.00
24	769.24	769.11	0.0000	0.00
25	776.28	776.14	0.0000	0.00
26	795.49	795.35	0.0000	0.00
27	837.55	837.39	0.0000	0.00
28	860.56	860.39	0.0000	0.00
29	911.66	911.46	0.0000	0.00
30	969.39	969.17	0.0000	0.00
31	1120.43	1120.15	0.0000	0.00
32	1177.15	1176.84	0.0000	0.00
33	1206.61	1206.29	0.0000	0.00
34	1213.02	1212.70	0.0000	0.00
35	1422.77	1422.36	0.0000	0.00
36	1427.41	1427.00	0.0000	0.00
37	1461.25	1460.82	0.0000	0.00
38	1535.93	1535.48	0.0000	0.00
39	1694.96	1694.45	0.0000	0.00
40	1711.64	1711.13	0.0000	0.00
41	1764.82	1764.29	0.0000	0.00
42	1847.05	1846.49	0.0000	0.00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1947.50	1946.91	0.0000	0.00
44	1967.22	1966.63	0.0000	0.00
45	2074.72	2074.09	0.0000	0.00
46	2127.59	2126.95	0.0000	0.00
47	2205.12	2204.46	0.0000	0.00
48	2615.26	2614.48	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.54	43	51	46.78	2.02E+02	101.31	1.47E+03	1.70
	2	62.45	58	66	62.67	1.92E+02	120.42	2.12E+03	1.97
	3	76.29	71	81	76.51	1.09E+03	155.72	2.63E+03	3.77
	4	87.80	86	91	88.01	1.32E+02	91.78	1.59E+03	1.27
	5	178.77	176	182	178.93	5.20E+01	62.35	6.70E+02	3.42
	6	186.21	183	190	186.37	1.70E+02	74.57	8.16E+02	1.63
	7	210.35	208	214	210.50	5.41E+01	58.18	5.80E+02	1.80
M	8	238.78	235	246	238.91	6.88E+02	65.45	3.57E+02	1.68
m	9	241.94	235	246	242.06	2.02E+02	70.21	4.22E+02	2.03
	10	270.50	268	275	270.61	7.66E+01	54.33	4.43E+02	2.05
M	11	295.41	291	303	295.51	2.52E+02	44.57	2.30E+02	1.83
m	12	300.38	291	303	300.47	7.40E+01	44.70	2.86E+02	2.23
	13	327.06	322	332	327.14	6.11E+01	62.92	4.96E+02	1.85
	14	338.29	335	342	338.37	1.15E+02	48.29	3.12E+02	2.05
	15	352.08	348	356	352.15	3.61E+02	61.74	3.65E+02	1.58
	16	463.73	457	470	463.74	1.22E+02	53.08	2.59E+02	4.10
	17	479.85	477	484	479.85	2.97E+01	32.80	1.59E+02	3.19
	18	511.01	508	515	511.00	1.08E+02	38.37	1.76E+02	2.17
	19	536.52	533	540	536.50	2.98E+01	30.13	1.30E+02	1.57
	20	583.28	578	588	583.24	1.94E+02	45.78	1.77E+02	2.12
	21	609.64	607	613	609.59	3.01E+02	44.25	1.33E+02	2.14
	22	632.30	629	636	632.24	2.85E+01	28.77	1.17E+02	2.21
	23	728.04	724	733	727.93	6.04E+01	38.41	1.79E+02	1.95
	24	769.24	766	773	769.11	3.67E+01	28.21	1.09E+02	1.52
	25	776.28	774	778	776.14	1.37E+01	18.23	6.06E+01	2.26
	26	795.49	789	801	795.35	4.91E+01	38.76	1.46E+02	3.35
	27	837.55	832	844	837.39	3.55E+01	39.73	1.69E+02	2.53
	28	860.56	856	864	860.39	2.88E+01	25.94	8.64E+01	1.48
	29	911.66	907	916	911.46	1.30E+02	36.37	1.13E+02	1.91
	30	969.39	966	973	969.17	4.60E+01	33.23	1.48E+02	1.74
	31	1120.43	1116	1125	1120.15	7.82E+01	30.15	8.57E+01	2.08
	32	1177.15	1168	1184	1176.84	4.29E+01	37.68	1.18E+02	11.33
	33	1206.61	1204	1209	1206.29	2.86E+01	16.97	3.29E+01	3.84
	34	1213.02	1210	1216	1212.70	1.83E+01	18.09	4.74E+01	2.02
M	35	1422.77	1416	1429	1422.36	1.47E+01	16.85	1.97E+01	4.68
m	36	1427.41	1416	1429	1427.00	7.87E+00	9.00	1.75E+01	3.61
	37	1461.25	1456	1466	1460.82	5.05E+02	46.74	2.20E+01	2.41
	38	1535.93	1530	1540	1535.48	1.73E+01	10.50	5.40E+00	3.52
	39	1694.96	1690	1696	1694.45	5.22E+00	7.78	7.56E+00	1.63
	40	1711.64	1708	1714	1711.13	7.50E+00	8.28	7.00E+00	1.75

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1764.82	1760 -	1770	1764.29	3.33E+01	17.35	2.35E+01	2.41
42	1847.05	1841 -	1850	1846.49	1.49E+01	11.40	1.02E+01	6.16
43	1947.50	1943 -	1950	1946.91	9.38E+00	9.17	7.23E+00	3.16
44	1967.22	1961 -	1971	1966.63	1.44E+01	9.91	5.24E+00	6.52
45	2074.72	2069 -	2078	2074.09	8.64E+00	8.31	4.73E+00	3.13
46	2127.59	2123 -	2131	2126.95	8.59E+00	8.02	4.82E+00	3.02
47	2205.12	2198 -	2208	2204.46	1.07E+01	14.32	2.06E+01	1.81
48	2615.26	2610 -	2618	2614.48	4.78E+01	14.84	4.48E+00	3.24

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.54	43 -	51	2.02E+02	101.31	1.47E+03	7.99E+01
	2	62.45	58 -	66	1.92E+02	120.42	2.12E+03	9.63E+01
	3	76.29	71 -	81	1.09E+03	155.72	2.63E+03	1.16E+02
	4	87.80	86 -	91	1.32E+02	91.78	1.59E+03	7.30E+01
	5	178.77	176 -	182	5.20E+01	62.35	6.70E+02	4.99E+01
	6	186.21	183 -	190	1.70E+02	74.57	8.16E+02	5.74E+01
	7	210.35	208 -	214	5.41E+01	58.18	5.80E+02	4.63E+01
M	8	238.78	235 -	246	6.88E+02	65.45	3.57E+02	3.10E+01
m	9	241.94	235 -	246	2.02E+02	70.21	4.22E+02	3.38E+01
	10	270.50	268 -	275	7.66E+01	54.33	4.43E+02	4.23E+01
M	11	295.41	291 -	303	2.52E+02	44.57	2.30E+02	2.49E+01
m	12	300.38	291 -	303	7.40E+01	44.70	2.86E+02	2.78E+01
	13	327.06	322 -	332	6.11E+01	62.92	4.96E+02	5.01E+01
	14	338.29	335 -	342	1.15E+02	48.29	3.12E+02	3.56E+01
	15	352.08	348 -	356	3.61E+02	61.74	3.65E+02	4.00E+01
	16	463.73	457 -	470	1.22E+02	53.08	2.59E+02	3.97E+01
	17	479.85	477 -	484	2.97E+01	32.80	1.59E+02	2.54E+01
	18	511.01	508 -	515	1.08E+02	38.37	1.76E+02	2.65E+01
	19	536.52	533 -	540	2.98E+01	30.13	1.30E+02	2.31E+01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	20	583.28	578 -	588	1.94E+02	45.78	1.77E+02	2.99E+01
	21	609.64	607 -	613	3.01E+02	44.25	1.33E+02	2.26E+01
	22	632.30	629 -	636	2.85E+01	28.77	1.17E+02	2.20E+01
	23	728.04	724 -	733	6.04E+01	38.41	1.79E+02	2.89E+01
	24	769.24	766 -	773	3.67E+01	28.21	1.09E+02	2.09E+01
	25	776.28	774 -	778	1.37E+01	18.23	6.06E+01	1.37E+01
	26	795.49	789 -	801	4.91E+01	38.76	1.46E+02	2.97E+01
	27	837.55	832 -	844	3.55E+01	39.73	1.69E+02	1.57E+01
	28	860.56	856 -	864	2.88E+01	25.94	8.64E+01	1.94E+01
	29	911.66	907 -	916	1.30E+02	36.37	1.13E+02	2.33E+01
	30	969.39	966 -	973	4.60E+01	33.23	1.48E+02	2.49E+01
	31	1120.43	1116 -	1125	7.82E+01	30.15	8.57E+01	2.01E+01
	32	1177.15	1168 -	1184	4.29E+01	37.68	1.18E+02	2.90E+01
	33	1206.61	1204 -	1209	2.86E+01	16.97	3.29E+01	1.08E+01
	34	1213.02	1210 -	1216	1.83E+01	18.09	4.74E+01	1.31E+01
M	35	1422.77	1416 -	1429	1.47E+01	16.85	1.97E+01	7.29E+00
m	36	1427.41	1416 -	1429	7.87E+00	9.00	1.75E+01	6.87E+00
	37	1461.25	1456 -	1466	5.05E+02	46.74	2.20E+01	1.06E+01
	38	1535.93	1530 -	1540	1.73E+01	10.50	5.40E+00	5.27E+00
	39	1694.96	1690 -	1696	5.22E+00	7.78	7.56E+00	5.17E+00
	40	1711.64	1708 -	1714	7.50E+00	8.28	7.00E+00	5.10E+00
	41	1764.82	1760 -	1770	3.33E+01	17.35	2.35E+01	1.07E+01
	42	1847.05	1841 -	1850	1.49E+01	11.40	1.02E+01	6.90E+00
	43	1947.50	1943 -	1950	9.38E+00	9.17	7.23E+00	5.60E+00
	44	1967.22	1961 -	1971	1.44E+01	9.91	5.24E+00	5.25E+00
	45	2074.72	2069 -	2078	8.64E+00	8.31	4.73E+00	4.83E+00
	46	2127.59	2123 -	2131	8.59E+00	8.02	4.82E+00	4.49E+00
	47	2205.12	2198 -	2208	1.07E+01	14.32	2.06E+01	1.05E+01
	48	2615.26	2610 -	2618	4.78E+01	14.84	4.48E+00	4.44E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.54	43 -	51	46.78	2.02E+02	101.31	1.47E+03	PB-210
	2	62.45	58 -	66	62.67	1.92E+02	120.42	2.12E+03	TH-230
									TH-234
	3	76.29	71 -	81	76.51	1.09E+03	155.72	2.63E+03	.....
	4	87.80	86 -	91	88.01	1.32E+02	91.78	1.59E+03	CD-109
									SN-126
									LU-176
	5	178.77	176 -	182	178.93	5.20E+01	62.35	6.70E+02	.....
	6	186.21	183 -	190	186.37	1.70E+02	74.57	8.16E+02	RA-226
	7	210.35	208 -	214	210.50	5.41E+01	58.18	5.80E+02	CM-243
M	8	238.78	235 -	246	238.91	6.88E+02	65.45	3.57E+02	PB-212
m	9	241.94	235 -	246	242.06	2.02E+02	70.21	4.22E+02	RA-224
	10	270.50	268 -	275	270.61	7.66E+01	54.33	4.43E+02	.....
M	11	295.41	291 -	303	295.51	2.52E+02	44.57	2.30E+02	PB-214
m	12	300.38	291 -	303	300.47	7.40E+01	44.70	2.86E+02	GA-67
									PB-212
									BI-210M
	13	327.06	322 -	332	327.14	6.11E+01	62.92	4.96E+02	.....
	14	338.29	335 -	342	338.37	1.15E+02	48.29	3.12E+02	AC-228
	15	352.08	348 -	356	352.15	3.61E+02	61.74	3.65E+02	PB-214
	16	463.73	457 -	470	463.74	1.22E+02	53.08	2.59E+02	SB-125
	17	479.85	477 -	484	479.85	2.97E+01	32.80	1.59E+02	.....
	18	511.01	508 -	515	511.00	1.08E+02	38.37	1.76E+02	.....
	19	536.52	533 -	540	536.50	2.98E+01	30.13	1.30E+02	BA-140
	20	583.28	578 -	588	583.24	1.94E+02	45.78	1.77E+02	TL-208
	21	609.64	607 -	613	609.59	3.01E+02	44.25	1.33E+02	BI-214
	22	632.30	629 -	636	632.24	2.85E+01	28.77	1.17E+02	.....
	23	728.04	724 -	733	727.93	6.04E+01	38.41	1.79E+02	BI-212
	24	769.24	766 -	773	769.11	3.67E+01	28.21	1.09E+02	.....
	25	776.28	774 -	778	776.14	1.37E+01	18.23	6.06E+01	RB-82
	26	795.49	789 -	801	795.35	4.91E+01	38.76	1.46E+02	CS-134
	27	837.55	832 -	844	837.39	3.55E+01	39.73	1.69E+02	.....
	28	860.56	856 -	864	860.39	2.88E+01	25.94	8.64E+01	TL-208
	29	911.66	907 -	916	911.46	1.30E+02	36.37	1.13E+02	LU-172
									AC-228
	30	969.39	966 -	973	969.17	4.60E+01	33.23	1.48E+02	AC-228
	31	1120.43	1116 -	1125	1120.15	7.82E+01	30.15	8.57E+01	SC-46
									BI-214
									TA-182
	32	1177.15	1168 -	1184	1176.84	4.29E+01	37.68	1.18E+02	.....
	33	1206.61	1204 -	1209	1206.29	2.86E+01	16.97	3.29E+01	.....
	34	1213.02	1210 -	1216	1212.70	1.83E+01	18.09	4.74E+01	.....
M	35	1422.77	1416 -	1429	1422.36	1.47E+01	16.85	1.97E+01	.....
m	36	1427.41	1416 -	1429	1427.00	7.87E+00	9.00	1.75E+01	.....
	37	1461.25	1456 -	1466	1460.82	5.05E+02	46.74	2.20E+01	K-40
	38	1535.93	1530 -	1540	1535.48	1.73E+01	10.50	5.40E+00	.....
	39	1694.96	1690 -	1696	1694.45	5.22E+00	7.78	7.56E+00	.....
	40	1711.64	1708 -	1714	1711.13	7.50E+00	8.28	7.00E+00	.....
	41	1764.82	1760 -	1770	1764.29	3.33E+01	17.35	2.35E+01	BI-214
	42	1847.05	1841 -	1850	1846.49	1.49E+01	11.40	1.02E+01	.....
	43	1947.50	1943 -	1950	1946.91	9.38E+00	9.17	7.23E+00	.....

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
44	1967.22	1961 -	1971	1966.63	1.44E+01	9.91	5.24E+00	.....
45	2074.72	2069 -	2078	2074.09	8.64E+00	8.31	4.73E+00	.....
46	2127.59	2123 -	2131	2126.95	8.59E+00	8.02	4.82E+00	.....
47	2205.12	2198 -	2208	2204.46	1.07E+01	14.32	2.06E+01	BI-214
48	2615.26	2610 -	2618	2614.48	4.78E+01	14.84	4.48E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.54	2.02E+02	101.31	1.50E-02	1.58E-03
	2	62.45	1.92E+02	120.42	2.14E-02	1.68E-03
	3	76.29	1.09E+03	155.72	2.38E-02	2.14E-03
	4	87.80	1.32E+02	91.78	2.44E-02	2.52E-03
	5	178.77	5.20E+01	62.35	1.88E-02	1.45E-03
	6	186.21	1.70E+02	74.57	1.83E-02	1.42E-03
	7	210.35	5.41E+01	58.18	1.68E-02	1.31E-03
M	8	238.78	6.88E+02	65.45	1.52E-02	1.18E-03
m	9	241.94	2.02E+02	70.21	1.51E-02	1.17E-03
	10	270.50	7.66E+01	54.33	1.38E-02	1.04E-03
M	11	295.41	2.52E+02	44.57	1.28E-02	9.74E-04
m	12	300.38	7.40E+01	44.70	1.26E-02	9.67E-04
	13	327.06	6.11E+01	62.92	1.18E-02	9.29E-04
	14	338.29	1.15E+02	48.29	1.14E-02	9.13E-04
	15	352.08	3.61E+02	61.74	1.11E-02	8.93E-04
	16	463.73	1.22E+02	53.08	8.72E-03	7.65E-04
	17	479.85	2.97E+01	32.80	8.46E-03	7.49E-04
	18	511.01	1.08E+02	38.37	8.01E-03	7.18E-04
	19	536.52	2.98E+01	30.13	7.68E-03	6.93E-04
	20	583.28	1.94E+02	45.78	7.14E-03	6.46E-04
	21	609.64	3.01E+02	44.25	6.87E-03	6.20E-04
	22	632.30	2.85E+01	28.77	6.65E-03	5.97E-04
	23	728.04	6.04E+01	38.41	5.89E-03	5.14E-04
	24	769.24	3.67E+01	28.21	5.61E-03	4.80E-04
	25	776.28	1.37E+01	18.23	5.57E-03	4.74E-04

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	26	795.49	4.91E+01	38.76	5.45E-03	4.58E-04
	27	837.55	3.55E+01	39.73	5.21E-03	4.24E-04
	28	860.56	2.88E+01	25.94	5.10E-03	4.05E-04
	29	911.66	1.30E+02	36.37	4.85E-03	3.72E-04
	30	969.39	4.60E+01	33.23	4.60E-03	3.61E-04
	31	1120.43	7.82E+01	30.15	4.08E-03	3.33E-04
	32	1177.15	4.29E+01	37.68	3.91E-03	3.23E-04
	33	1206.61	2.86E+01	16.97	3.84E-03	3.16E-04
	34	1213.02	1.83E+01	18.09	3.82E-03	3.15E-04
M	35	1422.77	1.47E+01	16.85	3.36E-03	2.75E-04
m	36	1427.41	7.87E+00	9.00	3.35E-03	2.74E-04
	37	1461.25	5.05E+02	46.74	3.29E-03	2.69E-04
	38	1535.93	1.73E+01	10.50	3.17E-03	2.58E-04
	39	1694.96	5.22E+00	7.78	2.94E-03	2.34E-04
	40	1711.64	7.50E+00	8.28	2.92E-03	2.32E-04
	41	1764.82	3.33E+01	17.35	2.86E-03	2.24E-04
	42	1847.05	1.49E+01	11.40	2.77E-03	2.13E-04
	43	1947.50	9.38E+00	9.17	2.67E-03	2.13E-04
	44	1967.22	1.44E+01	9.91	2.65E-03	2.13E-04
	45	2074.72	8.64E+00	8.31	2.56E-03	2.13E-04
	46	2127.59	8.59E+00	8.02	2.52E-03	2.13E-04
	47	2205.12	1.07E+01	14.32	2.46E-03	2.13E-04
	48	2615.26	4.78E+01	14.84	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	46.54	2.02E+02	101.31	4.70E+01	1.10E+01	1.55E+02	1.02E+02
2	62.45	1.92E+02	120.42	5.91E+01	5.02E+01	1.32E+02	1.30E+02
3	76.29	1.09E+03	155.72			1.09E+03	1.56E+02
4	87.80	1.32E+02	91.78	1.28E+01	4.30E+00	1.19E+02	9.19E+01
5	178.77	5.20E+01	62.35			5.20E+01	6.24E+01
6	186.21	1.70E+02	74.57	3.91E+01	6.36E+00	1.31E+02	7.48E+01
7	210.35	5.41E+01	58.18			5.41E+01	5.82E+01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	8	238.78	6.88E+02	65.45	1.27E+01	5.67E+00	6.75E+02	6.57E+01
m	9	241.94	2.02E+02	70.21			2.02E+02	7.02E+01
	10	270.50	7.66E+01	54.33			7.66E+01	5.43E+01
M	11	295.41	2.52E+02	44.57	3.82E+00	5.43E+00	2.48E+02	4.49E+01
m	12	300.38	7.40E+01	44.70			7.40E+01	4.47E+01
	13	327.06	6.11E+01	62.92			6.11E+01	6.29E+01
	14	338.29	1.15E+02	48.29			1.15E+02	4.83E+01
	15	352.08	3.61E+02	61.74	6.42E+00	4.54E+00	3.54E+02	6.19E+01
	16	463.73	1.22E+02	53.08			1.22E+02	5.31E+01
	17	479.85	2.97E+01	32.80			2.97E+01	3.28E+01
	18	511.01	1.08E+02	38.37	5.53E+01	4.60E+00	5.29E+01	3.86E+01
	19	536.52	2.98E+01	30.13			2.98E+01	3.01E+01
	20	583.28	1.94E+02	45.78	2.98E+00	2.89E+00	1.91E+02	4.59E+01
	21	609.64	3.01E+02	44.25	4.69E+00	3.03E+00	2.96E+02	4.44E+01
	22	632.30	2.85E+01	28.77			2.85E+01	2.88E+01
	23	728.04	6.04E+01	38.41			6.04E+01	3.84E+01
	24	769.24	3.67E+01	28.21			3.67E+01	2.82E+01
	25	776.28	1.37E+01	18.23			1.37E+01	1.82E+01
	26	795.49	4.91E+01	38.76			4.91E+01	3.88E+01
	27	837.55	3.55E+01	39.73			3.55E+01	3.97E+01
	28	860.56	2.88E+01	25.94			2.88E+01	2.59E+01
	29	911.66	1.30E+02	36.37	2.75E+00	2.50E+00	1.28E+02	3.65E+01
	30	969.39	4.60E+01	33.23			4.60E+01	3.32E+01
	31	1120.43	7.82E+01	30.15			7.82E+01	3.01E+01
	32	1177.15	4.29E+01	37.68			4.29E+01	3.77E+01
	33	1206.61	2.86E+01	16.97			2.86E+01	1.70E+01
	34	1213.02	1.83E+01	18.09			1.83E+01	1.81E+01
M	35	1422.77	1.47E+01	16.85			1.47E+01	1.69E+01
m	36	1427.41	7.87E+00	9.00			7.87E+00	9.00E+00
	37	1461.25	5.05E+02	46.74			5.05E+02	4.67E+01
	38	1535.93	1.73E+01	10.50			1.73E+01	1.05E+01
	39	1694.96	5.22E+00	7.78			5.22E+00	7.78E+00
	40	1711.64	7.50E+00	8.28			7.50E+00	8.28E+00
	41	1764.82	3.33E+01	17.35			3.33E+01	1.73E+01
	42	1847.05	1.49E+01	11.40			1.49E+01	1.14E+01
	43	1947.50	9.38E+00	9.17			9.38E+00	9.17E+00
	44	1967.22	1.44E+01	9.91			1.44E+01	9.91E+00
	45	2074.72	8.64E+00	8.31			8.64E+00	8.31E+00
	46	2127.59	8.59E+00	8.02			8.59E+00	8.02E+00
	47	2205.12	1.07E+01	14.32			1.07E+01	1.43E+01
	48	2615.26	4.78E+01	14.84			4.78E+01	1.48E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.54	2.02E+02	101.31	4.70E+01	1.10E+01	1.55E+02	1.02E+02
	2	62.45	1.92E+02	120.42	5.91E+01	5.02E+01	1.32E+02	1.30E+02
	3	76.29	1.09E+03	155.72			1.09E+03	1.56E+02
	4	87.80	1.32E+02	91.78	1.28E+01	4.30E+00	1.19E+02	9.19E+01
	5	178.77	5.20E+01	62.35			5.20E+01	6.24E+01
	6	186.21	1.70E+02	74.57	3.91E+01	6.36E+00	1.31E+02	7.48E+01
	7	210.35	5.41E+01	58.18			5.41E+01	5.82E+01
M	8	238.78	6.88E+02	65.45	1.27E+01	5.67E+00	6.75E+02	6.57E+01
m	9	241.94	2.02E+02	70.21			2.02E+02	7.02E+01
	10	270.50	7.66E+01	54.33			7.66E+01	5.43E+01
M	11	295.41	2.52E+02	44.57	3.82E+00	5.43E+00	2.48E+02	4.49E+01
m	12	300.38	7.40E+01	44.70			7.40E+01	4.47E+01
	13	327.06	6.11E+01	62.92			6.11E+01	6.29E+01
	14	338.29	1.15E+02	48.29			1.15E+02	4.83E+01
	15	352.08	3.61E+02	61.74	6.42E+00	4.54E+00	3.54E+02	6.19E+01
	16	463.73	1.22E+02	53.08			1.22E+02	5.31E+01
	17	479.85	2.97E+01	32.80			2.97E+01	3.28E+01
	18	511.01	1.08E+02	38.37	5.53E+01	4.60E+00	5.29E+01	3.86E+01
	19	536.52	2.98E+01	30.13			2.98E+01	3.01E+01
	20	583.28	1.94E+02	45.78	2.98E+00	2.89E+00	1.91E+02	4.59E+01
	21	609.64	3.01E+02	44.25	4.69E+00	3.03E+00	2.96E+02	4.44E+01
	22	632.30	2.85E+01	28.77			2.85E+01	2.88E+01
	23	728.04	6.04E+01	38.41			6.04E+01	3.84E+01
	24	769.24	3.67E+01	28.21			3.67E+01	2.82E+01
	25	776.28	1.37E+01	18.23			1.37E+01	1.82E+01
	26	795.49	4.91E+01	38.76			4.91E+01	3.88E+01
	27	837.55	3.55E+01	39.73			3.55E+01	3.97E+01
	28	860.56	2.88E+01	25.94			2.88E+01	2.59E+01
	29	911.66	1.30E+02	36.37	2.75E+00	2.50E+00	1.28E+02	3.65E+01
	30	969.39	4.60E+01	33.23			4.60E+01	3.32E+01
	31	1120.43	7.82E+01	30.15			7.82E+01	3.01E+01
	32	1177.15	4.29E+01	37.68			4.29E+01	3.77E+01
	33	1206.61	2.86E+01	16.97			2.86E+01	1.70E+01
	34	1213.02	1.83E+01	18.09			1.83E+01	1.81E+01
M	35	1422.77	1.47E+01	16.85			1.47E+01	1.69E+01
m	36	1427.41	7.87E+00	9.00			7.87E+00	9.00E+00
	37	1461.25	5.05E+02	46.74			5.05E+02	4.67E+01
	38	1535.93	1.73E+01	10.50			1.73E+01	1.05E+01
	39	1694.96	5.22E+00	7.78			5.22E+00	7.78E+00
	40	1711.64	7.50E+00	8.28			7.50E+00	8.28E+00
	41	1764.82	3.33E+01	17.35			3.33E+01	1.73E+01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
42	1847.05	1.49E+01	11.40			1.49E+01	1.14E+01
43	1947.50	9.38E+00	9.17			9.38E+00	9.17E+00
44	1967.22	1.44E+01	9.91			1.44E+01	9.91E+00
45	2074.72	8.64E+00	8.31			8.64E+00	8.31E+00
46	2127.59	8.59E+00	8.02			8.59E+00	8.02E+00
47	2205.12	1.07E+01	14.32			1.07E+01	1.43E+01
48	2615.26	4.78E+01	14.84			4.78E+01	1.48E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.970	1460.81	*	10.67	1.93E+01	2.41E+00
RB-82	0.986	776.52	*	13.00	5.17E-01	6.89E-01
CD-109	0.992	88.03	*	3.72	1.83E+00	1.43E+00
SN-126	0.991	87.57	*	37.00	1.77E-01	1.38E-01
TL-208	0.969	583.14	*	30.22	1.18E+00	3.04E-01
		860.37	*	4.48	1.69E+00	1.53E+00
		2614.66	*	35.85	7.97E-01	2.59E-01
PB-210	1.000	46.50	*	4.25	3.26E+00	2.17E+00
BI-212	0.676	727.17	*	11.80	1.17E+00	7.48E-01
		1620.62		2.75		
PB-212	0.996	238.63	*	44.60	1.33E+00	1.66E-01
		300.09	*	3.41	2.30E+00	1.40E+00
BI-214	0.978	609.31	*	46.30	1.25E+00	2.18E-01
		1120.29	*	15.10	1.70E+00	6.71E-01
		1764.49	*	15.80	9.87E-01	5.20E-01
		2204.22	*	4.98	1.17E+00	1.57E+00
PB-214	0.995	295.21	*	19.19	1.35E+00	2.65E-01
		351.92	*	37.19	1.15E+00	2.22E-01
RA-224	0.864	240.98	*	3.95	4.56E+00	1.62E+00
RA-226	1.000	186.21	*	3.28	2.92E+00	5.60E+00
AC-228	0.969	338.32	*	11.40	1.18E+00	5.05E-01
		911.07	*	27.70	1.27E+00	3.76E-01
		969.11	*	16.60	8.07E-01	5.86E-01
TH-234	0.893	63.29	*	3.80	2.19E+00	2.16E+00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:12PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.29	3.01424E-01	7.18		
	5	178.77	1.44477E-02	59.94		
	7	210.35	1.50218E-02	53.79	Tol.	CM-243
	10	270.50	2.12696E-02	35.48		
	13	327.06	1.69696E-02	51.49	Sum	
	16	463.73	3.38114E-02	21.80		
	17	479.85	8.24924E-03	55.23	Sum	
	18	511.01	1.46939E-02	36.53		
	19	536.52	8.26608E-03	50.63	Sum	
	22	632.30	7.90868E-03	50.53		
	24	769.24	1.01908E-02	38.45	Sum	
	26	795.49	1.36339E-02	39.48	Sum	
	27	837.55	9.86111E-03	55.96		
	32	1177.15	1.19118E-02	43.93		
	33	1206.61	7.93210E-03	29.71	Sum	
	34	1213.02	5.08267E-03	49.43	Sum	
M	35	1422.77	4.08863E-03	57.25		
m	36	1427.41	2.18638E-03	57.17		
	38	1535.93	4.80556E-03	30.35		
	39	1694.96	1.45062E-03	74.47	S-Esc	
	40	1711.64	2.08333E-03	55.18		
	42	1847.05	4.13889E-03	38.26		
	43	1947.50	2.60684E-03	48.83		
	44	1967.22	3.99510E-03	34.46		
	45	2074.72	2.39899E-03	48.09		
	46	2127.59	2.38636E-03	46.65		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.93E+01	2.41E+00
RB-82	0.98	776.52	*	13.00	5.17E-01	6.89E-01
CD-109	0.99	88.03	*	3.72	1.83E+00	1.43E+00
SN-126	0.99	87.57	*	37.00	1.77E-01	1.38E-01
TL-208	0.96	583.14	*	30.22	1.18E+00	3.04E-01
		860.37	*	4.48	1.69E+00	1.53E+00
		2614.66	*	35.85	7.97E-01	2.59E-01
PB-210	1.00	46.50	*	4.25	3.26E+00	2.17E+00
BI-212	0.67	727.17	*	11.80	1.17E+00	7.48E-01
		1620.62		2.75		
PB-212	0.99	238.63	*	44.60	1.33E+00	1.66E-01
		300.09	*	3.41	2.30E+00	1.40E+00
BI-214	0.97	609.31	*	46.30	1.25E+00	2.18E-01
		1120.29	*	15.10	1.70E+00	6.71E-01
		1764.49	*	15.80	9.87E-01	5.20E-01
		2204.22	*	4.98	1.17E+00	1.57E+00
PB-214	0.99	295.21	*	19.19	1.35E+00	2.65E-01
		351.92	*	37.19	1.15E+00	2.22E-01
RA-224	0.86	240.98	*	3.95	4.56E+00	1.62E+00
RA-226	1.00	186.21	*	3.28	2.92E+00	5.60E+00
AC-228	0.96	338.32	*	11.40	1.18E+00	5.05E-01
		911.07	*	27.70	1.27E+00	3.76E-01
		969.11	*	16.60	8.07E-01	5.86E-01
TH-234	0.89	63.29	*	3.80	2.19E+00	2.16E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.970	1.93E+01	2.41E+00	
	RB-82	0.986	5.17E-01	6.89E-01	
?	CD-109	0.992	1.83E+00	1.43E+00	
?	SN-126	0.991	1.77E-01	1.38E-01	
	TL-208	0.969	9.71E-01	1.96E-01	
	PB-210	1.000	3.26E+00	2.17E+00	
	BI-212	0.676	1.17E+00	7.48E-01	
	PB-212	0.996	1.35E+00	1.65E-01	
	BI-214	0.978	1.25E+00	1.91E-01	
	PB-214	0.995	1.23E+00	1.70E-01	
	RA-224	0.864	4.56E+00	1.62E+00	
	RA-226	1.000	2.92E+00	5.60E+00	
	AC-228	0.969	1.15E+00	2.68E-01	
	TH-234	0.893	2.19E+00	2.16E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:12PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.29	3.01424E-01	7.18		
	5	178.77	1.44477E-02	59.94		
	7	210.35	1.50218E-02	53.79	Tol.	CM-243
	10	270.50	2.12696E-02	35.48		
	13	327.06	1.69696E-02	51.49	Sum	
	16	463.73	3.38114E-02	21.80		
	17	479.85	8.24924E-03	55.23	Sum	
	18	511.01	1.46939E-02	36.53		
	19	536.52	8.26608E-03	50.63	Sum	
	22	632.30	7.90868E-03	50.53		
	24	769.24	1.01908E-02	38.45	Sum	
	26	795.49	1.36339E-02	39.48	Sum	
	27	837.55	9.86111E-03	55.96		
	32	1177.15	1.19118E-02	43.93		
	33	1206.61	7.93210E-03	29.71	Sum	
	34	1213.02	5.08267E-03	49.43	Sum	
M	35	1422.77	4.08863E-03	57.25		
m	36	1427.41	2.18638E-03	57.17		
	38	1535.93	4.80556E-03	30.35		
	39	1694.96	1.45062E-03	74.47	S-Esc	
	40	1711.64	2.08333E-03	55.18		
	42	1847.05	4.13889E-03	38.26		
	43	1947.50	2.60684E-03	48.83		
	44	1967.22	3.99510E-03	34.46		
	45	2074.72	2.39899E-03	48.09		
	46	2127.59	2.38636E-03	46.65		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.29E-01	1.09E+00	1.09E+00
+	NA-22	1274.54		99.94	1.46E-02	1.22E-01	1.22E-01
+	NA-24	1368.53		99.99	-2.41E+11	2.94E+11	4.22E+11
		2754.09		99.86	0.00E+00		2.94E+11
+	AL-26	1808.65		99.76	4.13E-02	8.67E-02	8.67E-02
+	K-40	1460.81	*	10.67	1.93E+01	9.09E-01	9.09E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.51E-02	7.65E-02	7.65E-02
		78.34		96.00	2.14E-01		9.44E-02
+	SC-46	889.25		99.98	3.36E-03	1.14E-01	1.14E-01
		1120.51		99.99	2.94E-01		2.07E-01
+	V-48	983.52		99.98	1.07E-01	3.12E-01	3.12E-01
		1312.10		97.50	-6.02E-02		3.89E-01
+	CR-51	320.08		9.83	-1.97E-01	1.36E+00	1.36E+00
+	MN-54	834.83		99.97	3.80E-02	1.15E-01	1.15E-01
+	CO-56	846.75		99.96	8.58E-03	1.03E-01	1.03E-01
		1037.75		14.03	2.91E-02		8.79E-01
		1238.25		67.00	1.57E-01		2.66E-01
		1771.40		15.51	-5.09E-02		7.44E-01
		2598.48		16.90	-1.48E-02		3.27E-01
+	CO-57	122.06		85.51	-1.49E-02	6.43E-02	6.43E-02
		136.48		10.60	-2.77E-01		5.16E-01
+	CO-58	810.76		99.40	6.04E-02	1.27E-01	1.27E-01
+	FE-59	1099.22		56.50	-1.11E-01	2.53E-01	2.53E-01
		1291.56		43.20	2.22E-02		4.08E-01
+	CO-60	1173.22		100.00	6.81E-02	1.09E-01	1.17E-01
		1332.49		100.00	-1.29E-03		1.09E-01
+	ZN-65	1115.52		50.75	-3.53E-02	2.26E-01	2.26E-01
+	GA-67	93.31		35.70	6.47E+01	5.27E+01	5.27E+01
		208.95		2.24	3.01E+00		8.51E+02
		300.22		16.00	-4.37E+02		1.27E+02
+	SE-75	121.11		16.70	8.80E-02	9.96E-02	3.65E-01
		136.00		59.20	-5.62E-02		9.96E-02
		264.65		59.80	-2.16E-02		1.27E-01
		279.53		25.20	-1.01E-02		3.08E-01
		400.65		11.40	-1.77E-01		7.42E-01
+	RB-82	776.52	*	13.00	5.17E-01	1.14E+00	1.14E+00
+	RB-83	520.41		46.00	-2.74E-02	2.00E-01	2.00E-01
		529.64		30.30	9.80E-03		2.87E-01
		552.65		16.40	-1.23E-01		5.90E-01
+	KR-85	513.99		0.43	1.86E+00	2.44E+01	2.44E+01
+	SR-85	513.99		99.27	1.07E-02	1.40E-01	1.40E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	Y-88	898.02		93.40	9.89E-03	1.05E-01	1.05E-01
		1836.01		99.38	1.73E-02		1.08E-01
+	NB-93M	16.57		9.43	-4.78E+01	7.96E+01	7.96E+01
+	NB-94	702.63		100.00	4.34E-02	9.88E-02	1.02E-01
		871.10		100.00	-6.88E-03		9.88E-02
+	NB-95	765.79		99.81	4.32E-03	1.73E-01	1.73E-01
+	NB-95M	235.69		25.00	1.05E+01	7.37E+01	7.37E+01
+	ZR-95	724.18		43.70	-1.72E-02	1.98E-01	2.94E-01
		756.72		55.30	5.37E-02		1.98E-01
+	MO-99	181.06		6.20	-1.85E+02	4.80E+02	6.85E+02
		739.58		12.80	-4.72E+01		4.80E+02
		778.00		4.50	-2.65E+02		1.48E+03
+	RU-103	497.08		89.00	-1.06E-02	1.35E-01	1.35E-01
+	RU-106	621.84		9.80	-7.39E-02	9.20E-01	9.20E-01
+	AG-108M	433.93		89.90	-3.34E-02	8.38E-02	8.38E-02
		614.37		90.40	-6.11E-03		1.04E-01
		722.95		90.50	-2.16E-02		8.98E-02
+	CD-109	88.03	*	3.72	1.83E+00	2.29E+00	2.29E+00
+	AG-110M	657.75		93.14	-1.89E-02	9.81E-02	9.81E-02
		677.61		10.53	-4.22E-02		8.53E-01
		706.67		16.46	2.98E-01		6.53E-01
		763.93		21.98	-6.72E-02		4.28E-01
		884.67		71.63	-4.38E-03		1.48E-01
		1384.27		23.94	8.76E-03		5.09E-01
+	CD-113M	263.70		0.02	-1.68E+02	2.79E+02	2.79E+02
+	SN-113	255.12		1.93	1.16E-01	1.36E-01	3.98E+00
		391.69		64.90	6.34E-04		1.36E-01
+	TE123M	159.00		84.10	-1.74E-02	7.22E-02	7.22E-02
+	SB-124	602.71		97.87	-6.31E-02	1.30E-01	1.30E-01
		645.85		7.26	6.29E-02		1.46E+00
		722.78		11.10	-2.38E-01		9.90E-01
		1691.02		49.00	6.97E-03		2.36E-01
+	I-125	35.49		6.49	-1.66E+00	3.11E+00	3.11E+00
+	SB-125	176.33		6.89	6.59E-03	2.83E-01	8.24E-01
		427.89		29.33	1.64E-01		2.83E-01
		463.38		10.35	6.37E-01		9.01E-01
		600.56		17.80	-1.57E-01		5.02E-01
		635.90		11.32	9.97E-02		7.47E-01
+	SB-126	414.70		83.30	-3.19E-01	3.57E-01	3.59E-01
		666.33		99.60	-2.32E-01		3.69E-01
		695.00		99.60	-2.26E-02		3.57E-01
		720.50		53.80	-3.66E-01		6.17E-01
+	SN-126	87.57	*	37.00	1.77E-01	2.22E-01	2.22E-01
+	SB-127	473.00		25.00	-2.33E-01	2.75E+01	3.21E+01
		685.20		35.70	2.38E+00		2.75E+01
		783.80		14.70	-9.79E+00		6.52E+01
+	I-129	29.78		57.00	-1.00E-01	4.77E-01	4.77E-01
		33.60		13.20	6.43E-01		1.37E+00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		I-129	39.58	7.52	9.63E-01	4.77E-01	1.51E+00
+		I-131	284.30	6.05	-8.14E+00	8.27E-01	1.03E+01
			364.48	81.20	-1.82E-01		8.27E-01
			636.97	7.26	6.15E-01		1.05E+01
			722.89	1.80	-1.04E+01		4.34E+01
+		TE-132	49.72	13.10	-2.81E+02	2.13E+01	1.71E+02
			228.16	88.00	-3.65E+00		2.13E+01
+		BA-133	81.00	33.00	-1.07E-01	1.54E-01	1.90E-01
			302.84	17.80	5.40E-02		4.25E-01
			356.01	60.00	1.18E-02		1.54E-01
+		I-133	529.87	86.30	3.68E+06	1.08E+08	1.08E+08
+		XE-133	81.00	38.00	-2.96E+00	5.28E+00	5.28E+00
+		CS-134	563.23	8.38	-6.79E-01	1.06E-01	9.26E-01
			569.32	15.43	-1.16E-01		5.18E-01
			604.70	97.60	-6.75E-02		1.06E-01
			795.84	85.40	1.25E-01		1.32E-01
			801.93	8.73	-3.60E-02		9.11E-01
+		CS-135	268.24	16.00	9.78E-02	4.89E-01	4.89E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	9.23E-01	3.55E-01	2.97E+00
			163.89	4.61	-1.85E+00		4.62E+00
			176.55	13.56	-1.62E-01		1.64E+00
			273.65	12.66	-3.09E-02		2.32E+00
			340.57	48.50	1.33E-01		7.43E-01
			818.50	99.70	2.04E-02		3.55E-01
			1048.07	79.60	-1.50E-01		5.23E-01
			1235.34	19.70	-1.38E-01		2.75E+00
+		CS-137	661.65	85.12	-5.92E-03	1.03E-01	1.03E-01
+		LA-138	788.74	34.00	3.53E-02	1.52E-01	2.78E-01
			1435.80	66.00	1.64E-02		1.52E-01
+		CE-139	165.85	80.35	1.58E-02	7.91E-02	7.91E-02
+		BA-140	162.64	6.70	-1.52E+00	1.35E+00	3.26E+00
			304.84	4.50	2.89E+00		6.16E+00
			423.70	3.20	-1.68E+00		1.05E+01
			437.55	2.00	1.05E+01		1.68E+01
			537.32	25.00	5.06E-01		1.35E+00
+		LA-140	328.77	20.50	9.29E-01	4.55E-01	1.62E+00
			487.03	45.50	1.78E-01		6.63E-01
			815.85	23.50	-1.83E-01		1.59E+00
			1596.49	95.49	6.80E-02		4.55E-01
+		CE-141	145.44	48.40	1.05E-02	1.98E-01	1.98E-01
+		CE-143	57.36	11.80	3.39E+04	1.33E+05	3.73E+05
			293.26	42.00	2.31E+05		1.33E+05
			664.55	5.20	6.62E+05		1.00E+06
+		CE-144	133.54	10.80	6.05E-04	5.24E-01	5.24E-01
+		PM-144	476.78	42.00	2.56E-02	8.61E-02	1.97E-01
			618.01	98.60	1.11E-02		8.70E-02

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	696.49	99.49	-1.82E-02	8.61E-02	8.61E-02
+	PM-145	36.85	21.70	-2.44E-01	3.34E-01	6.29E-01
		37.36	39.70	1.18E-01		3.34E-01
		42.30	15.10	-4.99E-02		6.57E-01
		72.40	2.31	-6.15E+00		3.70E+00
+	PM-146	453.90	39.94	-3.31E-02	1.78E-01	1.78E-01
		735.90	14.01	-7.19E-02		6.65E-01
		747.13	13.10	1.55E-01		6.78E-01
+	ND-147	91.11	28.90	8.81E-01	1.35E+00	1.35E+00
		531.02	13.10	3.89E-01		2.88E+00
+	PM-149	285.90	3.10	1.83E+03	8.33E+03	8.33E+03
+	EU-152	121.78	20.50	-5.82E-02	2.51E-01	2.51E-01
		244.69	5.40	3.39E-02		1.55E+00
		344.27	19.13	9.92E-02		3.76E-01
		778.89	9.20	-2.26E-01		9.46E-01
		964.01	10.40	3.29E-01		1.16E+00
		1085.78	7.22	-2.57E-02		1.41E+00
		1112.02	9.60	4.10E-01		1.10E+00
		1407.95	14.94	2.17E-01		7.14E-01
+	GD-153	97.43	31.30	-4.38E-02	1.95E-01	1.95E-01
		103.18	22.20	3.96E-02		2.64E-01
+	EU-154	123.07	40.50	-2.44E-02	1.30E-01	1.30E-01
		723.30	19.70	-9.96E-02		4.15E-01
		873.19	11.50	-4.25E-02		8.81E-01
		996.32	10.30	1.64E-01		9.34E-01
		1004.76	17.90	-1.41E-02		5.60E-01
		1274.45	35.50	4.06E-02		3.40E-01
+	EU-155	86.50	30.90	5.67E-02	2.36E-01	2.36E-01
		105.30	20.70	1.13E-01		2.69E-01
+	EU-156	811.77	10.40	1.68E-01	3.01E+00	3.01E+00
		1153.47	7.20	-4.24E-01		5.09E+00
		1230.71	8.90	-1.85E+00		4.30E+00
+	HO-166M	184.41	72.60	1.32E-01	9.69E-02	9.69E-02
		280.45	29.60	-1.77E-02		2.24E-01
		410.94	11.10	2.67E-01		6.79E-01
		711.69	54.10	-2.21E-02		1.59E-01
+	TM-171	66.72	0.14	-1.16E+00	5.25E+01	5.25E+01
+	HF-172	81.75	4.52	2.60E-01	4.82E-01	1.47E+00
		125.81	11.30	-1.81E-01		4.82E-01
+	LU-172	181.53	20.60	-9.11E+00	2.33E+00	4.14E+00
		810.06	16.63	3.18E+00		9.00E+00
		912.12	15.25	3.51E+01		1.72E+01
		1093.66	62.50	-3.90E-02		2.33E+00
+	LU-173	100.72	5.24	-8.58E-01	3.79E-01	1.05E+00
		272.11	21.20	3.67E-01		3.79E-01
+	HF-175	343.40	84.00	3.43E-02	1.12E-01	1.12E-01
+	LU-176	88.34	13.30	5.20E-02	6.98E-02	5.63E-01
		201.83	86.00	1.16E-02		8.11E-02
		306.78	94.00	-1.66E-02		6.98E-02

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TA-182	67.75		41.20	9.44E-02	2.06E-01	2.06E-01
		1121.30		34.90	8.09E-01		5.59E-01
		1189.05		16.23	4.19E-01		8.79E-01
		1221.41		26.98	2.02E-01		5.66E-01
		1231.02		11.44	-2.06E-01		1.23E+00
+	IR-192	308.46		29.68	-7.98E-02	2.09E-01	2.85E-01
		468.07		48.10	-9.41E-02		2.09E-01
+	HG-203	279.19		77.30	1.79E-02	1.29E-01	1.29E-01
+	BI-207	569.67		97.72	2.36E-02	8.40E-02	8.40E-02
		1063.62		74.90	3.20E-02		1.40E-01
+	TL-208	583.14	*	30.22	1.18E+00	1.93E-01	3.91E-01
		860.37	*	4.48	1.69E+00		2.44E+00
		2614.66	*	35.85	7.97E-01		1.93E-01
+	BI-210M	262.00		45.00	-8.13E-03	1.44E-01	1.44E-01
		300.00		23.00	-1.14E+00		3.33E-01
+	PB-210	46.50	*	4.25	3.26E+00	3.47E+00	3.47E+00
+	PB-211	404.84		2.90	-1.52E+00	2.43E+00	2.43E+00
		831.96		2.90	2.64E-01		3.30E+00
+	BI-212	727.17	*	11.80	1.17E+00	1.17E+00	1.17E+00
		1620.62		2.75	-4.00E-01		2.67E+00
+	PB-212	238.63	*	44.60	1.33E+00	2.55E-01	2.55E-01
		300.09	*	3.41	2.30E+00		3.46E+00
+	BI-214	609.31	*	46.30	1.25E+00	2.05E-01	2.05E-01
		1120.29	*	15.10	1.70E+00		9.33E-01
		1764.49	*	15.80	9.87E-01		7.13E-01
		2204.22	*	4.98	1.17E+00		2.58E+00
+	PB-214	295.21	*	19.19	1.35E+00	2.72E-01	6.03E-01
		351.92	*	37.19	1.15E+00		2.72E-01
+	RN-219	401.80		6.50	-3.58E-01	1.10E+00	1.10E+00
+	RA-223	323.87		3.88	-1.23E+00	1.92E+00	1.92E+00
+	RA-224	240.98	*	3.95	4.56E+00	2.92E+00	2.92E+00
+	RA-225	40.00		31.00	7.80E-01	1.22E+00	1.22E+00
+	RA-226	186.21	*	3.28	2.92E+00	2.68E+00	2.68E+00
+	TH-227	50.10		8.40	-1.62E+00	9.89E-01	9.89E-01
		236.00		11.50	1.48E-01		1.04E+00
		256.20		6.30	5.43E-01		1.06E+00
+	AC-228	338.32	*	11.40	1.18E+00	4.96E-01	7.59E-01
		911.07	*	27.70	1.27E+00		4.96E-01
		969.11	*	16.60	8.07E-01		9.22E-01
+	TH-230	48.44		16.90	3.07E-01	5.59E-01	5.59E-01
		62.85		4.60	2.23E+00		1.79E+00
		67.67		0.37	8.97E+00		1.95E+01
+	PA-231	283.67		1.60	-3.19E+00	3.27E+00	4.06E+00
		302.67		2.30	4.16E-01		3.27E+00
+	TH-231	25.64		14.70	-9.68E-01	1.02E+00	3.45E+00
		84.21		6.40	-2.72E-01		1.02E+00
+	PA-233	311.98		38.60	-2.45E-02	3.46E-01	3.46E-01
+	PA-234	131.20		20.40	2.06E-01	2.78E-01	2.78E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	733.99		8.80	1.95E-01	2.78E-01	1.19E+00
		946.00		12.00	3.60E-01		8.14E-01
+	PA-234M	1001.03		0.92	4.85E+00	1.03E+01	1.03E+01
+	TH-234	63.29	*	3.80	2.19E+00	3.53E+00	3.53E+00
+	U-235	143.76		10.50	9.86E-02	5.24E-01	5.24E-01
		163.35		4.70	-4.53E-01		1.13E+00
		205.31		4.70	1.19E-01		1.47E+00
+	NP-237	86.50		12.60	1.38E-01	5.72E-01	5.72E-01
+	NP-239	106.10		22.70	3.00E+02	5.51E+02	5.51E+02
		228.18		10.70	-2.56E+02		1.49E+03
		277.60		14.10	1.60E+02		1.09E+03
+	AM-241	59.54		35.90	-2.84E-01	2.17E-01	2.17E-01
+	AM-243	74.67		66.00	4.18E-01	1.53E-01	1.53E-01
+	CM-243	209.75		3.29	3.96E-01	4.83E-01	2.16E+00
		228.14		10.60	-1.14E-01		6.62E-01
		277.60		14.00	7.12E-02		4.83E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.09E+00	1.09E+00	1.29E-01	5.14E-01
	NA-22	1274.54		99.94	1.22E-01	1.22E-01	1.46E-02	5.61E-02
	NA-24	1368.53		99.99	4.22E+11	2.94E+11	-2.41E+11	1.88E+11
		2754.09		99.86	2.94E+11		0.00E+00	1.10E+11
	AL-26	1808.65		99.76	8.67E-02	8.67E-02	4.13E-02	3.69E-02
+	K-40	1460.81	*	10.67	9.09E-01	9.09E-01	1.93E+01	4.03E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.65E-02	7.65E-02	3.51E-02	3.74E-02
		78.34		96.00	9.44E-02		2.14E-01	4.64E-02
	SC-46	889.25		99.98	1.14E-01	1.14E-01	3.36E-03	5.24E-02
		1120.51		99.99	2.07E-01		2.94E-01	9.78E-02
	V-48	983.52		99.98	3.12E-01	3.12E-01	1.07E-01	1.44E-01
		1312.10		97.50	3.89E-01		-6.02E-02	1.79E-01
	CR-51	320.08		9.83	1.36E+00	1.36E+00	-1.97E-01	6.51E-01
	MN-54	834.83		99.97	1.15E-01	1.15E-01	3.80E-02	5.36E-02
	CO-56	846.75		99.96	1.03E-01	1.03E-01	8.58E-03	4.69E-02
		1037.75		14.03	8.79E-01		2.91E-02	4.02E-01
		1238.25		67.00	2.66E-01		1.57E-01	1.24E-01
		1771.40		15.51	7.44E-01		-5.09E-02	3.20E-01
		2598.48		16.90	3.27E-01		-1.48E-02	1.03E-01
	CO-57	122.06		85.51	6.43E-02	6.43E-02	-1.49E-02	3.11E-02
		136.48		10.60	5.16E-01		-2.77E-01	2.50E-01
	CO-58	810.76		99.40	1.27E-01	1.27E-01	6.04E-02	5.90E-02
	FE-59	1099.22		56.50	2.53E-01	2.53E-01	-1.11E-01	1.15E-01
		1291.56		43.20	4.08E-01		2.22E-02	1.87E-01
	CO-60	1173.22		100.00	1.17E-01	1.09E-01	6.81E-02	5.38E-02
		1332.49		100.00	1.09E-01		-1.29E-03	4.95E-02
	ZN-65	1115.52		50.75	2.26E-01	2.26E-01	-3.53E-02	1.04E-01
	GA-67	93.31		35.70	5.27E+01	5.27E+01	6.47E+01	2.58E+01
		208.95		2.24	8.51E+02		3.01E+00	4.13E+02
		300.22		16.00	1.27E+02		-4.37E+02	6.12E+01
	SE-75	121.11		16.70	3.65E-01	9.96E-02	8.80E-02	1.77E-01
		136.00		59.20	9.96E-02		-5.62E-02	4.82E-02
		264.65		59.80	1.27E-01		-2.16E-02	6.09E-02
		279.53		25.20	3.08E-01		-1.01E-02	1.48E-01
		400.65		11.40	7.42E-01		-1.77E-01	3.52E-01
+	RB-82	776.52	*	13.00	1.14E+00	1.14E+00	5.17E-01	5.17E-01
	RB-83	520.41		46.00	2.00E-01	2.00E-01	-2.74E-02	9.37E-02
		529.64		30.30	2.87E-01		9.80E-03	1.34E-01
		552.65		16.40	5.90E-01		-1.23E-01	2.77E-01
	KR-85	513.99		0.43	2.44E+01	2.44E+01	1.86E+00	1.17E+01
	SR-85	513.99		99.27	1.40E-01	1.40E-01	1.07E-02	6.72E-02
	Y-88	898.02		93.40	1.05E-01	1.05E-01	9.89E-03	4.77E-02
		1836.01		99.38	1.08E-01		1.73E-02	4.64E-02
	NB-93M	16.57		9.43	7.96E+01	7.96E+01	-4.78E+01	3.87E+01
	NB-94	702.63		100.00	1.02E-01	9.88E-02	4.34E-02	4.82E-02
		871.10		100.00	9.88E-02		-6.88E-03	4.58E-02
	NB-95	765.79		99.81	1.73E-01	1.73E-01	4.32E-03	8.12E-02
	NB-95M	235.69		25.00	7.37E+01	7.37E+01	1.05E+01	3.61E+01
	ZR-95	724.18		43.70	2.94E-01	1.98E-01	-1.72E-02	1.38E-01
		756.72		55.30	1.98E-01		5.37E-02	9.11E-02
	MO-99	181.06		6.20	6.85E+02	4.80E+02	-1.85E+02	3.31E+02
		739.58		12.80	4.80E+02		-4.72E+01	2.22E+02
		778.00		4.50	1.48E+03		-2.65E+02	6.85E+02
	RU-103	497.08		89.00	1.35E-01	1.35E-01	-1.06E-02	6.36E-02
	RU-106	621.84		9.80	9.20E-01	9.20E-01	-7.39E-02	4.31E-01
	AG-108M	433.93		89.90	8.38E-02	8.38E-02	-3.34E-02	3.97E-02
		614.37		90.40	1.04E-01		-6.11E-03	4.93E-02
		722.95		90.50	8.98E-02		-2.16E-02	4.15E-02

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	CD-109	88.03	*	3.72	2.29E+00	2.29E+00	1.83E+00	1.13E+00
	AG-110M	657.75		93.14	9.81E-02	9.81E-02	-1.89E-02	4.58E-02
		677.61		10.53	8.53E-01		-4.22E-02	3.97E-01
		706.67		16.46	6.53E-01		2.98E-01	3.07E-01
		763.93		21.98	4.28E-01		-6.72E-02	1.98E-01
		884.67		71.63	1.48E-01		-4.38E-03	6.84E-02
		1384.27		23.94	5.09E-01		8.76E-03	2.31E-01
	CD-113M	263.70		0.02	2.79E+02	2.79E+02	-1.68E+02	1.34E+02
	SN-113	255.12		1.93	3.98E+00	1.36E-01	1.16E-01	1.92E+00
		391.69		64.90	1.36E-01		6.34E-04	6.50E-02
	TE123M	159.00		84.10	7.22E-02	7.22E-02	-1.74E-02	3.49E-02
	SB-124	602.71		97.87	1.30E-01	1.30E-01	-6.31E-02	6.12E-02
		645.85		7.26	1.46E+00		6.29E-02	6.77E-01
		722.78		11.10	9.90E-01		-2.38E-01	4.58E-01
		1691.02		49.00	2.36E-01		6.97E-03	1.01E-01
	I-125	35.49		6.49	3.11E+00	3.11E+00	-1.66E+00	1.51E+00
	SB-125	176.33		6.89	8.24E-01	2.83E-01	6.59E-03	3.98E-01
		427.89		29.33	2.83E-01		1.64E-01	1.35E-01
		463.38		10.35	9.01E-01		6.37E-01	4.30E-01
		600.56		17.80	5.02E-01		-1.57E-01	2.36E-01
		635.90		11.32	7.47E-01		9.97E-02	3.49E-01
	SB-126	414.70		83.30	3.59E-01	3.57E-01	-3.19E-01	1.70E-01
		666.33		99.60	3.69E-01		-2.32E-01	1.72E-01
		695.00		99.60	3.57E-01		-2.26E-02	1.66E-01
		720.50		53.80	6.17E-01		-3.66E-01	2.84E-01
+	SN-126	87.57	*	37.00	2.22E-01	2.22E-01	1.77E-01	1.09E-01
	SB-127	473.00		25.00	3.21E+01	2.75E+01	-2.33E-01	1.51E+01
		685.20		35.70	2.75E+01		2.38E+00	1.28E+01
		783.80		14.70	6.52E+01		-9.79E+00	3.01E+01
	I-129	29.78		57.00	4.77E-01	4.77E-01	-1.00E-01	2.32E-01
		33.60		13.20	1.37E+00		6.43E-01	6.64E-01
		39.58		7.52	1.51E+00		9.63E-01	7.31E-01
	I-131	284.30		6.05	1.03E+01	8.27E-01	-8.14E+00	4.96E+00
		364.48		81.20	8.27E-01		-1.82E-01	3.94E-01
		636.97		7.26	1.05E+01		6.15E-01	4.88E+00
		722.89		1.80	4.34E+01		-1.04E+01	2.01E+01
	TE-132	49.72		13.10	1.71E+02	2.13E+01	-2.81E+02	8.33E+01
		228.16		88.00	2.13E+01		-3.65E+00	1.03E+01
	BA-133	81.00		33.00	1.90E-01	1.54E-01	-1.07E-01	9.26E-02
		302.84		17.80	4.25E-01		5.40E-02	2.04E-01
		356.01		60.00	1.54E-01		1.18E-02	7.41E-02
	I-133	529.87		86.30	1.08E+08	1.08E+08	3.68E+06	5.04E+07
	XE-133	81.00		38.00	5.28E+00	5.28E+00	-2.96E+00	2.58E+00
	CS-134	563.23		8.38	9.26E-01	1.06E-01	-6.79E-01	4.33E-01
		569.32		15.43	5.18E-01		-1.16E-01	2.42E-01
		604.70		97.60	1.06E-01		-6.75E-02	5.00E-02
		795.84		85.40	1.32E-01		1.25E-01	6.21E-02
		801.93		8.73	9.11E-01		-3.60E-02	4.16E-01
	CS-135	268.24		16.00	4.89E-01	4.89E-01	9.78E-02	2.36E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.97E+00	3.55E-01	9.23E-01	1.44E+00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	163.89	4.61	4.62E+00	3.55E-01	-1.85E+00	2.23E+00
	176.55	13.56	1.64E+00		-1.62E-01	7.94E-01
	273.65	12.66	2.32E+00		-3.09E-02	1.12E+00
	340.57	48.50	7.43E-01		1.33E-01	3.58E-01
	818.50	99.70	3.55E-01		2.04E-02	1.64E-01
	1048.07	79.60	5.23E-01		-1.50E-01	2.40E-01
	1235.34	19.70	2.75E+00		-1.38E-01	1.28E+00
CS-137	661.65	85.12	1.03E-01	1.03E-01	-5.92E-03	4.83E-02
LA-138	788.74	34.00	2.78E-01	1.52E-01	3.53E-02	1.29E-01
	1435.80	66.00	1.52E-01		1.64E-02	6.79E-02
CE-139	165.85	80.35	7.91E-02	7.91E-02	1.58E-02	3.82E-02
BA-140	162.64	6.70	3.26E+00	1.35E+00	-1.52E+00	1.58E+00
	304.84	4.50	6.16E+00		2.89E+00	2.95E+00
	423.70	3.20	1.05E+01		-1.68E+00	5.00E+00
	437.55	2.00	1.68E+01		1.05E+01	8.01E+00
	537.32	25.00	1.35E+00		5.06E-01	6.36E-01
LA-140	328.77	20.50	1.62E+00	4.55E-01	9.29E-01	7.76E-01
	487.03	45.50	6.63E-01		1.78E-01	3.12E-01
	815.85	23.50	1.59E+00		-1.83E-01	7.37E-01
	1596.49	95.49	4.55E-01		6.80E-02	2.02E-01
CE-141	145.44	48.40	1.98E-01	1.98E-01	1.05E-02	9.57E-02
CE-143	57.36	11.80	3.73E+05	1.33E+05	3.39E+04	1.82E+05
	293.26	42.00	1.33E+05		2.31E+05	6.47E+04
	664.55	5.20	1.00E+06		6.62E+05	4.69E+05
CE-144	133.54	10.80	5.24E-01	5.24E-01	6.05E-04	2.54E-01
PM-144	476.78	42.00	1.97E-01	8.61E-02	2.56E-02	9.30E-02
	618.01	98.60	8.70E-02		1.11E-02	4.07E-02
	696.49	99.49	8.61E-02		-1.82E-02	3.99E-02
PM-145	36.85	21.70	6.29E-01	3.34E-01	-2.44E-01	3.05E-01
	37.36	39.70	3.34E-01		1.18E-01	1.62E-01
	42.30	15.10	6.57E-01		-4.99E-02	3.19E-01
	72.40	2.31	3.70E+00		-6.15E+00	1.82E+00
PM-146	453.90	39.94	1.78E-01	1.78E-01	-3.31E-02	8.41E-02
	735.90	14.01	6.65E-01		-7.19E-02	3.10E-01
	747.13	13.10	6.78E-01		1.55E-01	3.15E-01
ND-147	91.11	28.90	1.35E+00	1.35E+00	8.81E-01	6.63E-01
	531.02	13.10	2.88E+00		3.89E-01	1.35E+00
PM-149	285.90	3.10	8.33E+03	8.33E+03	1.83E+03	4.00E+03
EU-152	121.78	20.50	2.51E-01	2.51E-01	-5.82E-02	1.22E-01
	244.69	5.40	1.55E+00		3.39E-02	7.54E-01
	344.27	19.13	3.76E-01		9.92E-02	1.79E-01
	778.89	9.20	9.46E-01		-2.26E-01	4.37E-01
	964.01	10.40	1.16E+00		3.29E-01	5.44E-01
	1085.78	7.22	1.41E+00		-2.57E-02	6.46E-01
	1112.02	9.60	1.10E+00		4.10E-01	5.02E-01
	1407.95	14.94	7.14E-01		2.17E-01	3.21E-01
GD-153	97.43	31.30	1.95E-01	1.95E-01	-4.38E-02	9.47E-02
	103.18	22.20	2.64E-01		3.96E-02	1.29E-01
EU-154	123.07	40.50	1.30E-01	1.30E-01	-2.44E-02	6.30E-02
	723.30	19.70	4.15E-01		-9.96E-02	1.92E-01
	873.19	11.50	8.81E-01		-4.25E-02	4.09E-01
	996.32	10.30	9.34E-01		1.64E-01	4.28E-01
	1004.76	17.90	5.60E-01		-1.41E-02	2.57E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	3.40E-01	1.30E-01	4.06E-02	1.56E-01
	EU-155	86.50		30.90	2.36E-01	2.36E-01	5.67E-02	1.15E-01
		105.30		20.70	2.69E-01		1.13E-01	1.31E-01
	EU-156	811.77		10.40	3.01E+00	3.01E+00	1.68E-01	1.40E+00
		1153.47		7.20	5.09E+00		-4.24E-01	2.34E+00
		1230.71		8.90	4.30E+00		-1.85E+00	1.97E+00
	HO-166M	184.41		72.60	9.69E-02	9.69E-02	1.32E-01	4.71E-02
		280.45		29.60	2.24E-01		-1.77E-02	1.07E-01
		410.94		11.10	6.79E-01		2.67E-01	3.23E-01
		711.69		54.10	1.59E-01		-2.21E-02	7.37E-02
	TM-171	66.72		0.14	5.25E+01	5.25E+01	-1.16E+00	2.57E+01
	HF-172	81.75		4.52	1.47E+00	4.82E-01	2.60E-01	7.19E-01
		125.81		11.30	4.82E-01		-1.81E-01	2.34E-01
	LU-172	181.53		20.60	4.14E+00	2.33E+00	-9.11E+00	2.00E+00
		810.06		16.63	9.00E+00		3.18E+00	4.19E+00
		912.12		15.25	1.72E+01		3.51E+01	8.24E+00
		1093.66		62.50	2.33E+00		-3.90E-02	1.06E+00
	LU-173	100.72		5.24	1.05E+00	3.79E-01	-8.58E-01	5.11E-01
		272.11		21.20	3.79E-01		3.67E-01	1.83E-01
	HF-175	343.40		84.00	1.12E-01	1.12E-01	3.43E-02	5.37E-02
	LU-176	88.34		13.30	5.63E-01	6.98E-02	5.20E-02	2.76E-01
		201.83		86.00	8.11E-02		1.16E-02	3.93E-02
		306.78		94.00	6.98E-02		-1.66E-02	3.33E-02
	TA-182	67.75		41.20	2.06E-01	2.06E-01	9.44E-02	1.01E-01
		1121.30		34.90	5.59E-01		8.09E-01	2.65E-01
		1189.05		16.23	8.79E-01		4.19E-01	4.06E-01
		1221.41		26.98	5.66E-01		2.02E-01	2.62E-01
		1231.02		11.44	1.23E+00		-2.06E-01	5.68E-01
	IR-192	308.46		29.68	2.85E-01	2.09E-01	-7.98E-02	1.36E-01
		468.07		48.10	2.09E-01		-9.41E-02	9.91E-02
	HG-203	279.19		77.30	1.29E-01	1.29E-01	1.79E-02	6.18E-02
	BI-207	569.67		97.72	8.40E-02	8.40E-02	2.36E-02	3.94E-02
		1063.62		74.90	1.40E-01		3.20E-02	6.42E-02
+	TL-208	583.14	*	30.22	3.91E-01	1.93E-01	1.18E+00	1.87E-01
		860.37	*	4.48	2.44E+00		1.69E+00	1.14E+00
		2614.66	*	35.85	1.93E-01		7.97E-01	7.42E-02
	BI-210M	262.00		45.00	1.44E-01	1.44E-01	-8.13E-03	6.93E-02
		300.00		23.00	3.33E-01		-1.14E+00	1.60E-01
+	PB-210	46.50	*	4.25	3.47E+00	3.47E+00	3.26E+00	1.71E+00
	PB-211	404.84		2.90	2.43E+00	2.43E+00	-1.52E+00	1.15E+00
		831.96		2.90	3.30E+00		2.64E-01	1.53E+00
+	BI-212	727.17	*	11.80	1.17E+00	1.17E+00	1.17E+00	5.57E-01
		1620.62		2.75	2.67E+00		-4.00E-01	1.12E+00
+	PB-212	238.63	*	44.60	2.55E-01	2.55E-01	1.33E+00	1.25E-01
		300.09	*	3.41	3.46E+00		2.30E+00	1.69E+00
+	BI-214	609.31	*	46.30	2.05E-01	2.05E-01	1.25E+00	9.70E-02
		1120.29	*	15.10	9.33E-01		1.70E+00	4.37E-01
		1764.49	*	15.80	7.13E-01		9.87E-01	3.16E-01
		2204.22	*	4.98	2.58E+00		1.17E+00	1.14E+00
+	PB-214	295.21	*	19.19	6.03E-01	2.72E-01	1.35E+00	2.94E-01
		351.92	*	37.19	2.72E-01		1.15E+00	1.32E-01
	RN-219	401.80		6.50	1.10E+00	1.10E+00	-3.58E-01	5.21E-01
	RA-223	323.87		3.88	1.92E+00	1.92E+00	-1.23E+00	9.23E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	RA-224	240.98	*	3.95	2.92E+00	2.92E+00	4.56E+00	1.43E+00
	RA-225	40.00		31.00	1.22E+00	1.22E+00	7.80E-01	5.92E-01
+	RA-226	186.21	*	3.28	2.68E+00	2.68E+00	2.92E+00	1.31E+00
	TH-227	50.10		8.40	9.89E-01	9.89E-01	-1.62E+00	4.81E-01
		236.00		11.50	1.04E+00		1.48E-01	5.08E-01
		256.20		6.30	1.06E+00		5.43E-01	5.09E-01
+	AC-228	338.32	*	11.40	7.59E-01	4.96E-01	1.18E+00	3.66E-01
		911.07	*	27.70	4.96E-01		1.27E+00	2.35E-01
		969.11	*	16.60	9.22E-01		8.07E-01	4.37E-01
	TH-230	48.44		16.90	5.59E-01	5.59E-01	3.07E-01	2.73E-01
		62.85		4.60	1.79E+00		2.23E+00	8.75E-01
		67.67		0.37	1.95E+01		8.97E+00	9.56E+00
	PA-231	283.67		1.60	4.06E+00	3.27E+00	-3.19E+00	1.94E+00
		302.67		2.30	3.27E+00		4.16E-01	1.57E+00
	TH-231	25.64		14.70	3.45E+00	1.02E+00	-9.68E-01	1.68E+00
		84.21		6.40	1.02E+00		-2.72E-01	4.99E-01
	PA-233	311.98		38.60	3.46E-01	3.46E-01	-2.45E-02	1.66E-01
	PA-234	131.20		20.40	2.78E-01	2.78E-01	2.06E-01	1.35E-01
		733.99		8.80	1.19E+00		1.95E-01	5.59E-01
		946.00		12.00	8.14E-01		3.60E-01	3.75E-01
	PA-234M	1001.03		0.92	1.03E+01	1.03E+01	4.85E+00	4.72E+00
+	TH-234	63.29	*	3.80	3.53E+00	3.53E+00	2.19E+00	1.74E+00
	U-235	143.76		10.50	5.24E-01	5.24E-01	9.86E-02	2.54E-01
		163.35		4.70	1.13E+00		-4.53E-01	5.48E-01
		205.31		4.70	1.47E+00		1.19E-01	7.15E-01
	NP-237	86.50		12.60	5.72E-01	5.72E-01	1.38E-01	2.80E-01
	NP-239	106.10		22.70	5.51E+02	5.51E+02	3.00E+02	2.68E+02
		228.18		10.70	1.49E+03		-2.56E+02	7.21E+02
		277.60		14.10	1.09E+03		1.60E+02	5.23E+02
	AM-241	59.54		35.90	2.17E-01	2.17E-01	-2.84E-01	1.06E-01
	AM-243	74.67		66.00	1.53E-01	1.53E-01	4.18E-01	7.54E-02
	CM-243	209.75		3.29	2.16E+00	4.83E-01	3.96E-01	1.05E+00
		228.14		10.60	6.62E-01		-1.14E-01	3.20E-01
		277.60		14.00	4.83E-01		7.12E-02	2.32E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-4 061-062

Elapsed Live time: 3600
Elapsed Real Time: 3613

Channel								
1:	0	0	0	0	0	0	0	0
9:	12	167	171	142	126	115	86	84
17:	70	82	73	75	67	69	92	93
25:	84	70	84	71	82	89	80	75
33:	83	76	81	79	63	70	84	87
41:	62	68	62	85	101	126	169	86
49:	88	112	107	85	103	105	92	111
57:	112	111	123	137	129	132	190	197
65:	122	110	136	123	140	146	130	141
73:	122	176	411	249	465	371	110	126
81:	101	107	112	158	143	101	209	169
89:	140	176	132	148	224	170	103	93
97:	96	97	87	89	72	71	85	90
105:	103	84	68	80	83	61	84	71
113:	70	79	76	79	59	69	87	53
121:	82	57	75	72	64	71	80	66
129:	78	92	62	74	84	50	66	61
137:	70	52	55	70	73	55	71	86
145:	66	57	63	54	72	58	53	68
153:	66	64	67	59	48	49	57	55
161:	58	56	50	50	51	63	63	63
169:	64	48	47	58	49	56	47	47
177:	54	64	57	64	51	50	47	52
185:	63	144	101	62	57	52	54	64
193:	39	46	49	57	54	46	43	55
201:	50	47	51	62	43	58	36	41
209:	50	64	52	53	47	37	50	55
217:	36	49	55	40	50	40	39	57
225:	42	36	41	54	36	45	40	32
233:	50	43	29	45	48	159	454	143
241:	72	141	65	38	32	37	33	32
249:	29	32	19	28	26	35	26	43
257:	26	30	33	35	21	19	26	20
265:	46	34	26	27	38	49	63	38
273:	25	29	29	28	29	31	27	27
281:	26	26	23	26	27	26	21	40
289:	32	21	30	31	21	40	128	130
297:	37	22	28	50	45	28	14	25
305:	27	24	22	24	15	19	30	23
313:	21	27	29	25	25	15	21	29
321:	26	18	29	27	27	23	36	47
329:	31	22	28	21	25	19	20	23
337:	29	71	65	27	20	16	23	31
345:	27	15	21	19	24	19	60	237
353:	127	20	18	19	22	25	11	23
361:	11	19	20	15	19	25	19	14

369:	25	21	17	19	23	18	16	16

Sample Title: FEEBRIS1D-4 061-062

Channel								
377:	17	19	11	22	15	16	23	19
385:	20	13	14	18	18	16	24	15
393:	26	21	16	23	21	22	18	18
401:	17	13	17	15	17	17	17	14
409:	19	26	21	14	10	20	12	14
417:	16	15	21	16	17	20	18	23
425:	15	22	21	21	24	19	14	11
433:	10	17	18	21	21	17	16	18
441:	18	14	13	17	12	16	8	12
449:	12	18	8	14	17	14	18	5
457:	14	13	14	18	13	21	27	34
465:	14	23	19	15	18	8	10	16
473:	7	13	17	13	8	17	23	12
481:	18	8	12	11	8	16	9	12
489:	11	17	8	10	15	15	8	21
497:	9	7	20	8	16	11	15	20
505:	12	18	12	7	15	34	62	46
513:	10	12	10	14	12	9	12	13
521:	11	12	9	10	14	7	10	10
529:	9	9	11	12	6	13	12	15
537:	21	9	12	7	8	14	9	12
545:	12	11	11	9	9	17	13	10
553:	7	13	10	8	8	21	12	4
561:	9	11	12	15	13	6	11	14
569:	9	13	10	10	14	6	14	14
577:	6	8	9	14	15	25	83	74
585:	23	10	10	11	7	13	6	10
593:	9	7	8	14	11	10	9	12
601:	19	13	13	9	16	15	9	37
609:	125	138	40	12	6	10	10	7
617:	10	8	13	13	8	10	10	12
625:	10	11	15	6	11	11	9	15
633:	16	10	9	6	7	12	8	9
641:	5	13	9	13	7	10	9	4
649:	6	7	8	8	8	15	8	11
657:	9	8	7	9	15	12	8	12
665:	8	12	12	9	4	6	19	6
673:	10	6	16	10	8	6	10	5
681:	6	12	7	16	5	4	13	8
689:	12	10	4	5	7	11	8	7
697:	7	11	4	15	9	10	14	15
705:	13	12	15	8	11	9	4	10
713:	9	4	12	9	6	8	7	3
721:	11	8	2	8	9	10	26	30
729:	10	12	16	13	16	9	12	11
737:	8	3	6	2	10	10	6	5
745:	11	6	10	6	10	9	7	5
753:	6	6	9	6	5	7	10	5
761:	6	5	8	12	5	8	10	10
769:	23	14	11	8	7	7	10	12
777:	12	3	8	5	4	7	9	8
785:	4	11	5	9	8	6	10	11
793:	8	15	17	16	10	8	8	3

801:	2	5	5	8	7	7	12	8

Sample Title: FEEBRIS1D-4 061-062

Channel								
809:	11	9	8	6	9	10	4	3
817:	10	8	7	8	9	6	2	5
825:	9	7	3	5	7	7	7	6
833:	8	6	15	10	22	5	8	11
841:	13	4	6	6	7	1	6	5
849:	7	6	6	2	5	6	4	4
857:	8	7	5	10	18	8	9	3
865:	8	12	5	6	8	9	8	6
873:	7	11	6	10	8	11	11	5
881:	5	6	8	8	12	10	4	10
889:	5	6	3	7	5	3	6	6
897:	3	5	5	7	3	5	5	5
905:	9	5	8	5	4	19	69	47
913:	15	7	6	7	3	5	8	2
921:	7	8	8	2	8	5	6	1
929:	7	8	5	10	8	13	6	6
937:	4	8	5	3	7	3	8	6
945:	8	9	2	4	9	5	3	9
953:	4	5	6	3	1	5	8	8
961:	6	9	7	14	17	7	10	19
969:	43	27	4	3	7	8	4	7
977:	3	5	4	4	6	6	4	13
985:	5	7	5	5	5	8	1	5
993:	6	8	9	5	4	3	5	8
1001:	4	5	9	5	1	4	9	10
1009:	9	4	7	5	5	6	5	7
1017:	7	4	5	6	5	4	11	3
1025:	5	5	4	6	4	9	4	10
1033:	5	7	7	2	7	7	7	4
1041:	5	3	7	3	3	8	6	5
1049:	8	7	7	10	10	8	3	8
1057:	8	6	3	6	5	8	4	7
1065:	5	8	10	1	6	7	3	5
1073:	5	2	6	7	6	7	2	2
1081:	6	7	6	5	6	5	6	3
1089:	8	4	6	5	3	7	5	4
1097:	6	3	6	2	7	5	8	6
1105:	5	7	1	4	6	6	9	4
1113:	3	8	4	4	6	12	12	34
1121:	30	7	5	6	5	4	7	8
1129:	5	5	4	6	5	7	4	7
1137:	4	6	9	3	7	3	8	7
1145:	5	5	6	7	8	6	4	5
1153:	8	7	7	5	7	4	4	12
1161:	7	4	10	7	7	8	1	7
1169:	2	6	5	8	10	7	6	3
1177:	3	3	6	9	9	10	7	1
1185:	5	10	9	5	8	7	7	3
1193:	4	7	8	6	8	11	8	3
1201:	13	6	3	5	11	10	9	8
1209:	2	2	4	11	9	6	6	4
1217:	5	8	4	5	11	9	9	8
1225:	5	9	6	4	5	9	5	9

1233:	3	10	7	7	9	13	12	8

Sample Title: FEEBRIS1D-4 061-062

Channel								
1241:	7	4	6	3	4	6	11	6
1249:	9	6	3	4	4	6	3	2
1257:	8	5	3	5	7	7	4	4
1265:	5	5	1	7	4	8	2	6
1273:	8	5	3	7	1	2	4	3
1281:	6	4	9	3	5	5	3	7
1289:	2	7	6	1	6	3	4	3
1297:	4	2	6	4	3	4	8	11
1305:	3	9	7	8	4	3	5	3
1313:	4	3	7	4	2	4	3	0
1321:	6	1	4	3	2	3	6	3
1329:	3	3	2	3	4	5	4	4
1337:	2	3	3	3	1	3	5	3
1345:	4	4	3	2	3	5	1	3
1353:	3	4	6	4	3	2	4	2
1361:	6	5	3	3	2	1	3	4
1369:	2	0	3	4	6	2	3	2
1377:	6	4	3	4	3	3	4	2
1385:	4	8	1	3	5	2	1	3
1393:	1	2	1	0	2	1	2	1
1401:	3	1	2	1	0	5	7	7
1409:	4	1	2	0	4	1	0	0
1417:	2	2	1	3	7	1	6	2
1425:	3	2	6	2	1	3	4	1
1433:	1	2	3	2	3	4	3	2
1441:	3	1	0	2	1	2	4	1
1449:	2	1	3	1	1	2	2	0
1457:	2	2	33	158	201	99	16	2
1465:	3	0	2	0	1	4	3	0
1473:	4	3	3	2	0	4	1	2
1481:	2	5	3	1	1	0	0	2
1489:	1	2	1	0	1	0	3	4
1497:	3	2	3	0	3	3	2	1
1505:	2	0	2	2	7	2	2	2
1513:	0	3	3	1	0	2	2	1
1521:	1	3	2	3	0	3	1	2
1529:	0	0	2	2	1	2	0	5
1537:	2	3	3	0	1	0	2	1
1545:	1	1	1	2	1	0	3	0
1553:	1	2	3	0	1	4	0	1
1561:	2	2	1	0	0	2	1	3
1569:	1	2	3	1	3	2	1	2
1577:	1	2	1	1	0	0	1	3
1585:	3	0	1	7	2	2	3	3
1593:	4	2	1	1	3	1	2	4
1601:	2	1	1	1	0	1	1	1
1609:	2	0	1	1	0	1	0	0
1617:	2	0	0	2	3	0	2	0
1625:	1	3	1	0	1	2	2	3
1633:	1	1	0	2	1	2	0	1
1641:	0	0	0	2	1	0	3	1
1649:	2	2	0	1	1	0	1	1
1657:	0	1	0	1	3	1	0	3

1665:	3	1	0	0	2	1	0	0

Sample Title: FEEBRIS1D-4 061-062

Channel								
1673:	1	1	0	0	1	0	0	1
1681:	1	3	2	2	2	0	2	0
1689:	1	1	0	1	0	3	4	0
1697:	0	1	0	0	0	0	1	1
1705:	0	3	0	1	0	2	4	2
1713:	1	1	0	0	4	1	1	0
1721:	1	2	1	2	0	3	1	1
1729:	3	2	5	1	3	0	3	3
1737:	0	0	1	0	2	1	3	1
1745:	2	1	0	0	3	0	0	0
1753:	1	0	0	0	1	1	1	0
1761:	5	1	4	11	11	5	3	2
1769:	1	2	1	2	0	0	2	0
1777:	2	1	0	1	2	0	1	0
1785:	1	1	1	1	0	0	2	2
1793:	2	0	0	0	1	2	0	0
1801:	2	0	0	2	1	1	1	2
1809:	0	3	1	0	0	0	0	0
1817:	1	0	1	3	3	1	5	2
1825:	4	0	2	0	0	3	2	1
1833:	4	1	2	0	1	1	0	2
1841:	0	1	4	0	1	3	6	2
1849:	3	0	0	3	1	0	0	0
1857:	1	0	2	1	1	0	0	0
1865:	0	0	0	2	2	0	0	0
1873:	3	2	0	1	1	0	0	2
1881:	0	0	1	1	0	2	0	2
1889:	2	2	0	1	1	0	1	1
1897:	0	0	0	1	2	0	1	1
1905:	0	1	1	3	0	3	1	2
1913:	3	1	2	0	1	2	0	0
1921:	1	0	2	1	0	0	2	2
1929:	0	1	1	0	0	0	1	2
1937:	0	0	1	3	0	0	2	0
1945:	0	3	5	0	3	0	0	0
1953:	1	0	0	0	1	3	0	0
1961:	0	1	0	2	3	3	1	2
1969:	1	4	0	1	0	0	0	1
1977:	0	0	1	1	0	0	1	0
1985:	1	0	2	0	1	1	0	0
1993:	1	0	1	1	2	1	0	1
2001:	1	0	1	0	2	0	1	1
2009:	1	0	0	1	0	1	1	0
2017:	1	0	0	0	1	2	0	1
2025:	1	0	2	0	0	2	3	1
2033:	1	0	1	2	0	1	0	1
2041:	0	0	0	1	0	0	1	0
2049:	0	1	1	3	0	1	4	0
2057:	2	1	1	0	0	2	0	1
2065:	0	0	1	0	0	1	1	0
2073:	1	2	2	3	1	0	1	0
2081:	1	0	0	0	0	0	1	0
2089:	0	1	1	0	1	0	1	0

2097:	1	1	0	1	0	2	2	2

Sample Title: FEEBRIS1D-4 061-062

Channel								
2105:	0	1	1	0	0	1	1	0
2113:	1	1	2	0	1	2	0	1
2121:	3	0	0	0	1	4	1	3
2129:	1	1	0	1	1	1	0	1
2137:	0	0	1	4	1	1	1	1
2145:	1	0	0	1	0	0	0	0
2153:	0	2	0	1	2	0	1	2
2161:	1	0	0	0	2	1	0	1
2169:	1	2	0	3	0	0	1	0
2177:	0	1	1	1	1	0	1	0
2185:	0	1	1	1	2	1	0	2
2193:	0	0	1	0	3	1	2	2
2201:	1	0	1	7	5	1	1	0
2209:	0	1	2	0	0	1	1	1
2217:	0	2	0	0	0	2	1	3
2225:	1	3	1	0	1	1	2	1
2233:	1	0	3	0	1	2	0	1
2241:	1	0	0	0	1	1	1	2
2249:	1	1	0	1	2	0	1	1
2257:	0	1	1	2	0	0	1	1
2265:	0	0	0	1	0	1	1	1
2273:	1	1	1	0	0	1	0	0
2281:	2	1	1	0	0	0	0	1
2289:	2	3	0	1	1	1	0	3
2297:	2	1	2	1	0	3	2	0
2305:	0	1	1	1	0	0	1	3
2313:	1	1	3	1	1	3	2	1
2321:	0	0	0	2	0	1	0	2
2329:	0	0	1	0	0	0	1	0
2337:	1	0	1	0	0	1	0	1
2345:	1	0	1	2	1	2	1	0
2353:	0	1	0	2	1	0	0	1
2361:	1	2	1	0	1	0	0	1
2369:	0	0	2	0	1	2	1	1
2377:	2	0	1	0	1	1	0	1
2385:	2	0	2	1	2	1	0	3
2393:	0	0	1	1	0	0	1	2
2401:	0	0	0	0	1	2	0	0
2409:	1	1	0	0	0	1	0	0
2417:	1	0	2	0	0	0	1	0
2425:	1	0	0	1	1	1	0	1
2433:	1	0	2	0	2	1	1	2
2441:	1	1	0	0	1	0	2	0
2449:	1	2	0	0	0	0	1	0
2457:	0	0	0	0	0	0	0	0
2465:	0	0	0	3	0	0	1	1
2473:	0	1	2	0	1	2	1	1
2481:	0	1	1	0	0	0	2	0
2489:	1	0	1	0	1	0	2	0
2497:	1	0	0	0	0	1	1	0
2505:	1	0	0	0	1	2	0	0
2513:	1	1	0	0	1	1	1	0
2521:	0	0	1	0	0	1	0	0

2529:	0	0	1	0	3	0	2	1

Sample Title: FEEBRIS1D-4 061-062

Channel								
2537:	0	1	0	0	0	0	1	1
2545:	0	0	1	0	0	0	1	1
2553:	1	0	1	0	0	0	1	0
2561:	2	0	1	0	0	0	1	1
2569:	0	1	0	0	1	2	0	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	0	1	0	1	0	1
2593:	1	0	0	1	0	0	0	0
2601:	0	0	0	0	0	0	0	0
2609:	0	0	0	4	7	13	14	9
2617:	3	0	1	1	1	0	0	0
2625:	0	0	1	0	0	1	0	1
2633:	0	0	0	0	0	0	0	1
2641:	0	0	0	0	1	0	1	0
2649:	0	0	0	0	1	2	1	0
2657:	0	0	0	0	0	0	1	0
2665:	0	0	0	0	0	1	0	0
2673:	0	0	0	0	0	0	1	1
2681:	0	2	0	0	1	0	1	0
2689:	0	1	0	1	1	0	1	0
2697:	0	0	0	0	0	0	0	2
2705:	0	0	0	0	0	0	0	0
2713:	0	1	0	1	0	1	0	0
2721:	0	0	0	1	0	0	0	0
2729:	1	0	0	0	0	0	1	0
2737:	0	0	0	1	0	0	0	0
2745:	0	0	1	0	0	0	0	1
2753:	0	1	0	1	0	0	1	0
2761:	0	1	0	0	0	0	0	0
2769:	0	0	0	1	0	0	0	1
2777:	0	1	0	0	0	0	0	0
2785:	0	0	0	0	0	0	0	1
2793:	0	0	0	0	0	0	0	1
2801:	0	1	0	0	0	1	0	0
2809:	1	0	2	0	0	0	0	0
2817:	1	0	0	0	0	1	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	1	0	0	0	0	0	0	1
2849:	0	0	0	0	1	0	0	1
2857:	0	0	0	0	0	0	0	0
2865:	1	0	0	1	0	0	0	0
2873:	0	0	0	1	0	0	0	0
2881:	0	1	0	0	0	0	1	0
2889:	0	1	0	1	0	0	0	0
2897:	0	0	0	0	0	0	1	0
2905:	0	0	0	1	0	0	0	1
2913:	0	0	0	0	0	1	1	0
2921:	0	0	1	0	0	0	0	0
2929:	0	0	0	0	0	0	1	1
2937:	0	1	0	0	0	0	0	0
2945:	1	0	1	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	1	0	0	0	0	0	1

Sample Title: FEEBRIS1D-4 061-062

Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	2	0
2985:	0	0	0	1	1	0	0	0
2993:	1	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	1	0	0	0	1	1	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	1	0	0	0	0	1	2	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	1	1	0	0	0	0
3065:	1	0	0	0	0	1	0	0
3073:	0	1	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	1	0	0	0	1	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	2	1	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	1	0	0	0	0
3137:	0	1	0	0	0	0	0	0
3145:	0	0	0	0	0	0	1	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	1	0	1	0	0	0	0	0
3177:	0	0	1	0	0	1	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	2	0	1	0
3201:	1	1	0	0	0	0	0	0
3209:	0	0	0	1	0	0	0	0
3217:	0	1	0	1	1	2	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	1	0	0	0	0	0
3249:	0	0	1	1	0	1	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	1	0	0	0
3273:	0	1	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	0	2	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	1	0	0	0
3321:	0	0	1	0	0	0	0	0
3329:	0	0	0	0	1	0	0	0
3337:	0	0	2	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	1	0	0	0	0	0	0
3369:	0	0	0	0	1	0	1	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	1	0	0	0	0	0

Sample Title: FEEBRIS1D-4 061-062

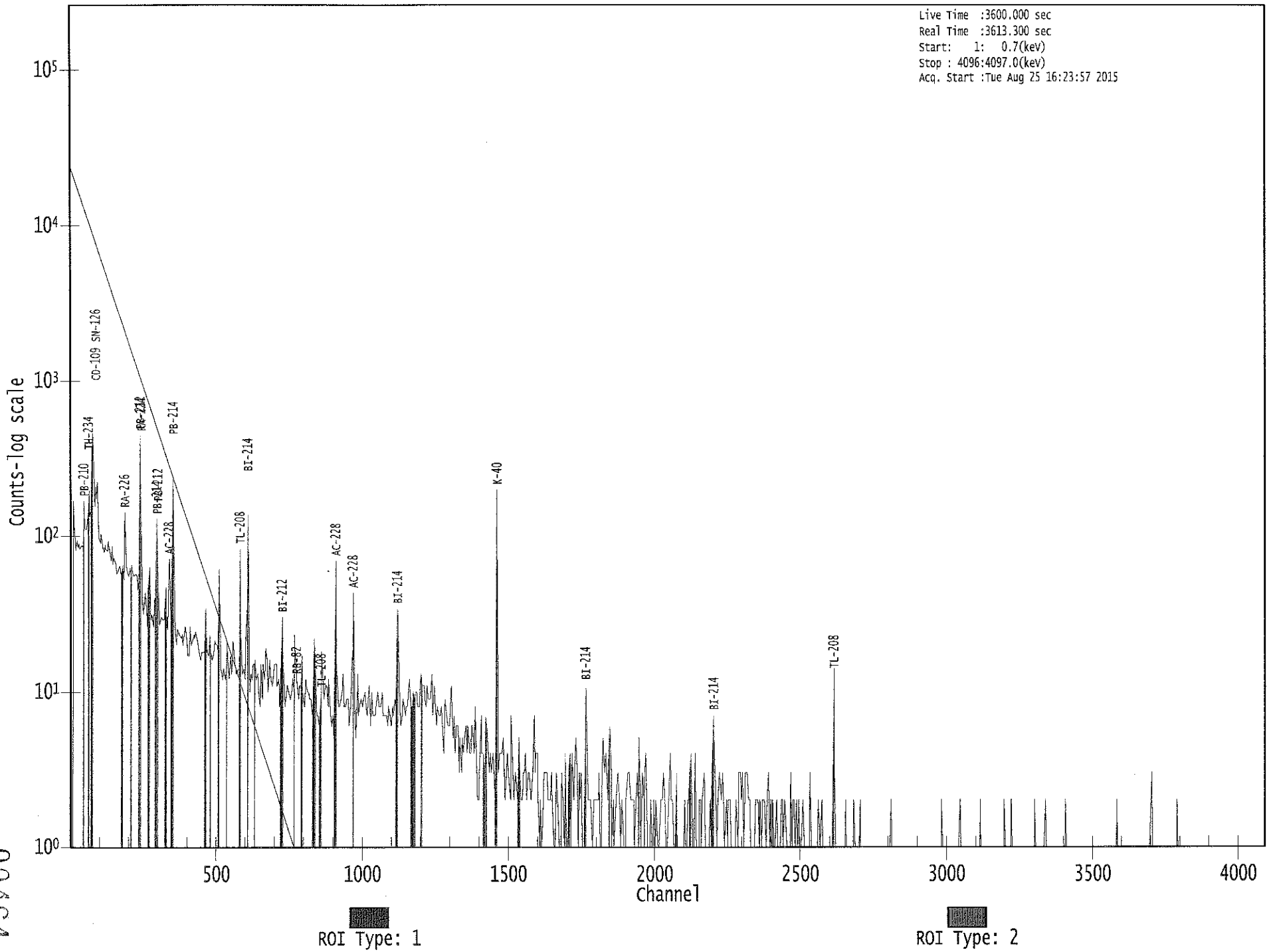
Channel								
3401:	0	0	0	0	1	0	2	0
3409:	0	1	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	1	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	1	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	0	1	0	0	0	0	0	0
3473:	0	0	0	1	0	0	1	0
3481:	0	0	0	0	0	0	1	1
3489:	0	1	0	0	1	0	0	1
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	0	0	1	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	1	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	1	0	0	0	0
3561:	0	0	1	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	2
3585:	0	0	0	0	0	0	0	0
3593:	0	1	0	0	0	0	1	0
3601:	0	0	0	0	0	0	1	0
3609:	0	0	1	0	1	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	1	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	1	0	0	0	1	0
3665:	0	1	0	0	0	0	1	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	1
3697:	0	0	1	0	0	1	0	3
3705:	0	0	0	0	0	0	0	0
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	1	0	0	0	0
3729:	0	0	0	0	0	1	1	0
3737:	0	0	0	0	0	0	0	0
3745:	1	0	0	0	0	0	0	0
3753:	0	1	0	0	0	0	1	0
3761:	0	0	0	0	0	1	0	0
3769:	0	0	0	1	0	0	0	0
3777:	0	0	1	0	1	0	0	0
3785:	0	0	0	0	0	0	2	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	1	0	1	0	0	0	0	0
3817:	0	0	0	0	0	0	0	1

3825:	1	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-4 061-062

Channel								
3833:	0	0	0	0	0	0	1	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	1	0	0	0
3865:	0	0	0	0	0	0	1	1
3873:	0	0	0	0	0	0	0	1
3881:	0	0	0	0	0	0	1	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	1	0	0	0	0	0
3913:	0	0	1	0	1	0	0	0
3921:	0	0	0	0	0	1	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	1	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	1	0	1	0	0	0	0
4033:	0	0	0	0	1	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	1	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	1	0	0	0	0
4089:	0	0	1	1	0	1	0	0

0000026410.CNF



00464

Apex-Gamma

Analysis Report for 1508002-07
FEEBRIS1D-4 064-065

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-07
Sample Description	: FEEBRIS1D-4 064-065
Sample Type	: SOIL
Sample Size	: 6.083E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:39:09AM
Acquisition Started	: 8/25/2015 5:17:19PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26416

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:17:24PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.41	46.52	0.0000	0.00
2	76.39	76.48	0.0000	0.00
3	88.10	88.19	0.0000	0.00
4	93.50	93.58	0.0000	0.00
5	104.47	104.54	0.0000	0.00
6	209.73	209.74	0.0000	0.00
7	238.82	238.82	0.0000	0.00
8	242.20	242.19	0.0000	0.00
9	269.98	269.96	0.0000	0.00
10	295.19	295.16	0.0000	0.00
11	300.38	300.34	0.0000	0.00
12	328.18	328.12	0.0000	0.00
13	338.44	338.38	0.0000	0.00
14	349.21	349.14	0.0000	0.00
15	352.05	351.99	0.0000	0.00
16	409.12	409.03	0.0000	0.00
17	438.74	438.64	0.0000	0.00
18	507.38	507.24	0.0000	0.00
19	511.06	510.92	0.0000	0.00
20	579.34	579.17	0.0000	0.00
21	583.33	583.15	0.0000	0.00
22	609.56	609.37	0.0000	0.00
23	625.36	625.16	0.0000	0.00
24	660.52	660.30	0.0000	0.00
25	671.40	671.18	0.0000	0.00
26	675.05	674.82	0.0000	0.00
27	727.75	727.50	0.0000	0.00
28	769.12	768.86	0.0000	0.00
29	784.82	784.54	0.0000	0.00
30	795.32	795.04	0.0000	0.00
31	804.88	804.60	0.0000	0.00
32	911.60	911.28	0.0000	0.00
33	969.11	968.76	0.0000	0.00
34	1119.59	1119.19	0.0000	0.00
35	1205.75	1205.31	0.0000	0.00
36	1216.33	1215.89	0.0000	0.00
37	1220.83	1220.39	0.0000	0.00
38	1238.45	1238.00	0.0000	0.00
39	1266.95	1266.49	0.0000	0.00
40	1377.62	1377.12	0.0000	0.00
41	1408.02	1407.52	0.0000	0.00
42	1461.14	1460.62	0.0000	0.00

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1465.21	1464.68	0.0000	0.00
44	1509.86	1509.33	0.0000	0.00
45	1610.09	1609.52	0.0000	0.00
46	1730.16	1729.56	0.0000	0.00
47	1765.11	1764.50	0.0000	0.00
48	1803.34	1802.73	0.0000	0.00
49	1847.88	1847.25	0.0000	0.00
50	2155.56	2154.88	0.0000	0.00
51	2206.07	2205.38	0.0000	0.00
52	2614.98	2614.24	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.41	44 -	49	46.52	1.36E+02	68.69	8.19E+02	2.07
	2	76.39	72 -	81	76.48	6.60E+02	122.11	1.74E+03	3.52
	3	88.10	86 -	91	88.19	1.41E+02	76.77	1.07E+03	3.30
	4	93.50	91 -	97	93.58	1.44E+02	82.09	1.06E+03	1.21
	5	104.47	102 -	107	104.54	6.69E+01	59.33	6.54E+02	3.21
	6	209.73	206 -	213	209.74	5.46E+01	61.87	5.97E+02	1.93
M	7	238.82	235 -	245	238.82	4.60E+02	59.75	3.34E+02	1.55
m	8	242.20	235 -	245	242.19	1.17E+02	46.75	3.39E+02	1.56
	9	269.98	267 -	274	269.96	4.71E+01	53.96	4.58E+02	1.54
	10	295.19	292 -	299	295.16	1.74E+02	58.21	4.59E+02	1.48
	11	300.38	299 -	303	300.34	2.91E+01	33.69	2.22E+02	1.12
	12	328.18	326 -	331	328.12	3.24E+01	34.81	2.17E+02	2.31
	13	338.44	335 -	342	338.38	8.23E+01	50.52	3.67E+02	1.90
M	14	349.21	348 -	359	349.14	2.06E+01	18.82	8.82E+01	1.57
m	15	352.05	348 -	359	351.99	3.72E+02	47.98	1.64E+02	1.58
	16	409.12	406 -	413	409.03	3.51E+01	37.68	2.16E+02	3.94
	17	438.74	435 -	441	438.64	3.05E+01	30.50	1.47E+02	1.46
M	18	507.38	505 -	516	507.24	3.11E+01	22.91	7.53E+01	2.84
m	19	511.06	505 -	516	510.92	1.60E+02	41.82	1.68E+02	2.85
M	20	579.34	578 -	590	579.17	1.54E+01	11.18	2.86E+01	1.84
m	21	583.33	578 -	590	583.15	1.47E+02	32.94	9.78E+01	1.84
	22	609.56	604 -	614	609.37	3.19E+02	55.56	2.41E+02	1.91
	23	625.36	621 -	629	625.16	2.59E+01	29.37	1.16E+02	1.91
	24	660.52	656 -	663	660.30	2.43E+01	27.28	1.07E+02	1.82
M	25	671.40	670 -	678	671.18	1.36E+01	10.54	3.17E+01	1.93
m	26	675.05	670 -	678	674.82	1.87E+01	21.61	7.49E+01	1.94
	27	727.75	724 -	730	727.50	2.46E+01	26.84	1.09E+02	1.27
	28	769.12	765 -	773	768.86	2.61E+01	31.30	1.34E+02	2.14
	29	784.82	781 -	788	784.54	1.99E+01	25.14	9.22E+01	2.88
	30	795.32	791 -	801	795.04	4.15E+01	27.27	7.70E+01	2.36
	31	804.88	801 -	810	804.60	3.28E+01	23.58	6.24E+01	4.29
	32	911.60	907 -	915	911.28	1.22E+02	35.25	1.13E+02	1.42
	33	969.11	966 -	972	968.76	5.44E+01	28.07	9.51E+01	1.35
	34	1119.59	1114 -	1124	1119.19	6.84E+01	33.18	1.11E+02	2.23
	35	1205.75	1201 -	1209	1205.31	2.83E+01	24.50	7.15E+01	3.69
M	36	1216.33	1210 -	1223	1215.89	2.12E+01	23.99	6.66E+01	2.88
m	37	1220.83	1210 -	1223	1220.39	1.51E+01	21.63	7.07E+01	4.02
	38	1238.45	1235 -	1243	1238.00	3.65E+01	27.22	9.51E+01	2.81
	39	1266.95	1263 -	1270	1266.49	2.00E+01	15.62	2.61E+01	5.00
	40	1377.62	1373 -	1382	1377.12	2.80E+01	17.00	2.60E+01	2.29

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1408.02	1405 -	1411	1407.52	8.76E+00	11.37	1.65E+01	1.54
M	42	1461.14	1453 -	1467	1460.62	6.15E+02	51.01	3.17E+01	2.26
m	43	1465.21	1453 -	1467	1464.68	1.40E+01	39.02	2.18E+01	2.23
	44	1509.86	1504 -	1514	1509.33	1.70E+01	13.81	1.61E+01	5.44
	45	1610.09	1606 -	1612	1609.52	6.38E+00	6.65	3.25E+00	3.02
	46	1730.16	1726 -	1733	1729.56	7.42E+00	10.00	1.12E+01	1.05
	47	1765.11	1760 -	1770	1764.50	4.17E+01	19.27	2.67E+01	2.07
	48	1803.34	1799 -	1806	1802.73	1.10E+01	6.63	0.00E+00	3.88
	49	1847.88	1843 -	1849	1847.25	6.50E+00	9.21	1.10E+01	1.43
	50	2155.56	2151 -	2158	2154.88	1.05E+01	9.38	7.00E+00	3.77
	51	2206.07	2199 -	2215	2205.38	3.09E+01	14.43	6.29E+00	4.26
	52	2614.98	2610 -	2618	2614.24	6.59E+01	17.10	4.22E+00	2.81

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.41	44 -	49	1.36E+02	68.69	8.19E+02	5.31E+01
	2	76.39	72 -	81	6.60E+02	122.11	1.74E+03	1.33E+02
	3	88.10	86 -	91	1.41E+02	76.77	1.07E+03	6.00E+01
	4	93.50	91 -	97	1.44E+02	82.09	1.06E+03	6.45E+01
	5	104.47	102 -	107	6.69E+01	59.33	6.54E+02	4.69E+01
	6	209.73	206 -	213	5.46E+01	61.87	5.97E+02	4.94E+01
M	7	238.82	235 -	245	4.60E+02	59.75	3.34E+02	3.00E+01
m	8	242.20	235 -	245	1.17E+02	46.75	3.39E+02	3.02E+01
	9	269.98	267 -	274	4.71E+01	53.96	4.58E+02	4.29E+01
	10	295.19	292 -	299	1.74E+02	58.21	4.59E+02	4.27E+01
	11	300.38	299 -	303	2.91E+01	33.69	2.22E+02	2.62E+01
	12	328.18	326 -	331	3.24E+01	34.81	2.17E+02	2.70E+01
	13	338.44	335 -	342	8.23E+01	50.52	3.67E+02	3.88E+01
M	14	349.21	348 -	359	2.06E+01	18.82	8.82E+01	1.54E+01
m	15	352.05	348 -	359	3.72E+02	47.98	1.64E+02	2.10E+01
	16	409.12	406 -	413	3.51E+01	37.68	2.16E+02	2.94E+01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	17	438.74	435 -	441	3.05E+01	30.50	1.47E+02	2.34E+01
M	18	507.38	505 -	516	3.11E+01	22.91	7.53E+01	1.43E+01
m	19	511.06	505 -	516	1.60E+02	41.82	1.68E+02	2.13E+01
M	20	579.34	578 -	590	1.54E+01	11.18	2.86E+01	8.79E+00
m	21	583.33	578 -	590	1.47E+02	32.94	9.78E+01	1.63E+01
	22	609.56	604 -	614	3.19E+02	55.56	2.41E+02	3.50E+01
	23	625.36	621 -	629	2.59E+01	29.37	1.16E+02	2.26E+01
	24	660.52	656 -	663	2.43E+01	27.28	1.07E+02	2.09E+01
M	25	671.40	670 -	678	1.36E+01	10.54	3.17E+01	9.26E+00
m	26	675.05	670 -	678	1.87E+01	21.61	7.49E+01	1.42E+01
	27	727.75	724 -	730	2.46E+01	26.84	1.09E+02	2.05E+01
	28	769.12	765 -	773	2.61E+01	31.30	1.34E+02	2.43E+01
	29	784.82	781 -	788	1.99E+01	25.14	9.22E+01	1.93E+01
	30	795.32	791 -	801	4.15E+01	27.27	7.70E+01	1.98E+01
	31	804.88	801 -	810	3.28E+01	23.58	6.24E+01	1.69E+01
	32	911.60	907 -	915	1.22E+02	35.25	1.13E+02	2.25E+01
	33	969.11	966 -	972	5.44E+01	28.07	9.51E+01	1.96E+01
	34	1119.59	1114 -	1124	6.84E+01	33.18	1.11E+02	2.36E+01
	35	1205.75	1201 -	1209	2.83E+01	24.50	7.15E+01	1.81E+01
M	36	1216.33	1210 -	1223	2.12E+01	23.99	6.66E+01	1.34E+01
m	37	1220.83	1210 -	1223	1.51E+01	21.63	7.07E+01	1.38E+01
	38	1238.45	1235 -	1243	3.65E+01	27.22	9.51E+01	2.01E+01
	39	1266.95	1263 -	1270	2.00E+01	15.62	2.61E+01	1.05E+01
	40	1377.62	1373 -	1382	2.80E+01	17.00	2.60E+01	1.09E+01
	41	1408.02	1405 -	1411	8.76E+00	11.37	1.65E+01	7.98E+00
M	42	1461.14	1453 -	1467	6.15E+02	51.01	3.17E+01	9.26E+00
m	43	1465.21	1453 -	1467	1.40E+01	39.02	2.18E+01	7.67E+00
	44	1509.86	1504 -	1514	1.70E+01	13.81	1.61E+01	9.11E+00
	45	1610.09	1606 -	1612	6.38E+00	6.65	3.25E+00	3.56E+00
	46	1730.16	1726 -	1733	7.42E+00	10.00	1.12E+01	6.89E+00
	47	1765.11	1760 -	1770	4.17E+01	19.27	2.67E+01	1.18E+01
	48	1803.34	1799 -	1806	1.10E+01	6.63	0.00E+00	0.00E+00
	49	1847.88	1843 -	1849	6.50E+00	9.21	1.10E+01	6.30E+00
	50	2155.56	2151 -	2158	1.05E+01	9.38	7.00E+00	5.58E+00
	51	2206.07	2199 -	2215	3.09E+01	14.43	6.29E+00	7.57E+00
	52	2614.98	2610 -	2618	6.59E+01	17.10	4.22E+00	4.40E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.41	44 -	49	46.52	1.36E+02	68.69	8.19E+02	PB-210
	2	76.39	72 -	81	76.48	6.60E+02	122.11	1.74E+03	.....
	3	88.10	86 -	91	88.19	1.41E+02	76.77	1.07E+03	CD-109
									LU-176
									SN-126
	4	93.50	91 -	97	93.58	1.44E+02	82.09	1.06E+03	GA-67
	5	104.47	102 -	107	104.54	6.69E+01	59.33	6.54E+02	EU-155
	6	209.73	206 -	213	209.74	5.46E+01	61.87	5.97E+02	CM-243
									GA-67
M	7	238.82	235 -	245	238.82	4.60E+02	59.75	3.34E+02	PB-212
m	8	242.20	235 -	245	242.19	1.17E+02	46.75	3.39E+02	.....
	9	269.98	267 -	274	269.96	4.71E+01	53.96	4.58E+02	.....
	10	295.19	292 -	299	295.16	1.74E+02	58.21	4.59E+02	PB-214
	11	300.38	299 -	303	300.34	2.91E+01	33.69	2.22E+02	GA-67
									PB-212
									BI-210M
	12	328.18	326 -	331	328.12	3.24E+01	34.81	2.17E+02	LA-140
	13	338.44	335 -	342	338.38	8.23E+01	50.52	3.67E+02	AC-228
M	14	349.21	348 -	359	349.14	2.06E+01	18.82	8.82E+01	.....
m	15	352.05	348 -	359	351.99	3.72E+02	47.98	1.64E+02	PB-214
	16	409.12	406 -	413	409.03	3.51E+01	37.68	2.16E+02	.....
	17	438.74	435 -	441	438.64	3.05E+01	30.50	1.47E+02	.....
M	18	507.38	505 -	516	507.24	3.11E+01	22.91	7.53E+01	.....
m	19	511.06	505 -	516	510.92	1.60E+02	41.82	1.68E+02	.....
M	20	579.34	578 -	590	579.17	1.54E+01	11.18	2.86E+01	.....
m	21	583.33	578 -	590	583.15	1.47E+02	32.94	9.78E+01	TL-208
	22	609.56	604 -	614	609.37	3.19E+02	55.56	2.41E+02	BI-214
	23	625.36	621 -	629	625.16	2.59E+01	29.37	1.16E+02	.....
	24	660.52	656 -	663	660.30	2.43E+01	27.28	1.07E+02	.....
M	25	671.40	670 -	678	671.18	1.36E+01	10.54	3.17E+01	.....
m	26	675.05	670 -	678	674.82	1.87E+01	21.61	7.49E+01	.....
	27	727.75	724 -	730	727.50	2.46E+01	26.84	1.09E+02	BI-212
	28	769.12	765 -	773	768.86	2.61E+01	31.30	1.34E+02	.....
	29	784.82	781 -	788	784.54	1.99E+01	25.14	9.22E+01	.....
	30	795.32	791 -	801	795.04	4.15E+01	27.27	7.70E+01	CS-134
	31	804.88	801 -	810	804.60	3.28E+01	23.58	6.24E+01	.....
	32	911.60	907 -	915	911.28	1.22E+02	35.25	1.13E+02	LU-172
									AC-228
	33	969.11	966 -	972	968.76	5.44E+01	28.07	9.51E+01	AC-228
	34	1119.59	1114 -	1124	1119.19	6.84E+01	33.18	1.11E+02	BI-214
									SC-46

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	35	1205.75	1201 -	1209	1205.31	2.83E+01	24.50	7.15E+01	.....
M	36	1216.33	1210 -	1223	1215.89	2.12E+01	23.99	6.66E+01	.....
m	37	1220.83	1210 -	1223	1220.39	1.51E+01	21.63	7.07E+01	TA-182
	38	1238.45	1235 -	1243	1238.00	3.65E+01	27.22	9.51E+01	CO-56
	39	1266.95	1263 -	1270	1266.49	2.00E+01	15.62	2.61E+01	.....
	40	1377.62	1373 -	1382	1377.12	2.80E+01	17.00	2.60E+01	.....
	41	1408.02	1405 -	1411	1407.52	8.76E+00	11.37	1.65E+01	EU-152
M	42	1461.14	1453 -	1467	1460.62	6.15E+02	51.01	3.17E+01	K-40
m	43	1465.21	1453 -	1467	1464.68	1.40E+01	39.02	2.18E+01	.....
	44	1509.86	1504 -	1514	1509.33	1.70E+01	13.81	1.61E+01	.....
	45	1610.09	1606 -	1612	1609.52	6.38E+00	6.65	3.25E+00	.....
	46	1730.16	1726 -	1733	1729.56	7.42E+00	10.00	1.12E+01	.....
	47	1765.11	1760 -	1770	1764.50	4.17E+01	19.27	2.67E+01	BI-214
	48	1803.34	1799 -	1806	1802.73	1.10E+01	6.63	0.00E+00	.....
	49	1847.88	1843 -	1849	1847.25	6.50E+00	9.21	1.10E+01	.....
	50	2155.56	2151 -	2158	2154.88	1.05E+01	9.38	7.00E+00	.....
	51	2206.07	2199 -	2215	2205.38	3.09E+01	14.43	6.29E+00	.....
	52	2614.98	2610 -	2618	2614.24	6.59E+01	17.10	4.22E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.41	1.36E+02	68.69	1.33E-02	1.68E-03
	2	76.39	6.60E+02	122.11	2.74E-02	3.35E-03
	3	88.10	1.41E+02	76.77	2.84E-02	4.50E-03
	4	93.50	1.44E+02	82.09	2.85E-02	4.26E-03
	5	104.47	6.69E+01	59.33	2.81E-02	3.77E-03
	6	209.73	5.46E+01	61.87	1.95E-02	1.63E-03
M	7	238.82	4.60E+02	59.75	1.79E-02	1.60E-03
m	8	242.20	1.17E+02	46.75	1.77E-02	1.60E-03
	9	269.98	4.71E+01	53.96	1.64E-02	1.57E-03
	10	295.19	1.74E+02	58.21	1.55E-02	1.48E-03
	11	300.38	2.91E+01	33.69	1.53E-02	1.46E-03
	12	328.18	3.24E+01	34.81	1.44E-02	1.32E-03

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	13	338.44	8.23E+01	50.52	1.41E-02	1.27E-03
M	14	349.21	2.06E+01	18.82	1.38E-02	1.22E-03
m	15	352.05	3.72E+02	47.98	1.37E-02	1.21E-03
	16	409.12	3.51E+01	37.68	1.24E-02	1.00E-03
	17	438.74	3.05E+01	30.50	1.18E-02	9.72E-04
M	18	507.38	3.11E+01	22.91	1.06E-02	9.02E-04
m	19	511.06	1.60E+02	41.82	1.06E-02	8.98E-04
M	20	579.34	1.54E+01	11.18	9.63E-03	8.29E-04
m	21	583.33	1.47E+02	32.94	9.58E-03	8.25E-04
	22	609.56	3.19E+02	55.56	9.27E-03	7.98E-04
	23	625.36	2.59E+01	29.37	9.09E-03	7.82E-04
	24	660.52	2.43E+01	27.28	8.72E-03	7.46E-04
M	25	671.40	1.36E+01	10.54	8.61E-03	7.39E-04
m	26	675.05	1.87E+01	21.61	8.57E-03	7.37E-04
	27	727.75	2.46E+01	26.84	8.08E-03	7.03E-04
	28	769.12	2.61E+01	31.30	7.74E-03	6.76E-04
	29	784.82	1.99E+01	25.14	7.61E-03	6.66E-04
	30	795.32	4.15E+01	27.27	7.53E-03	6.59E-04
	31	804.88	3.28E+01	23.58	7.46E-03	6.53E-04
	32	911.60	1.22E+02	35.25	6.74E-03	5.86E-04
	33	969.11	5.44E+01	28.07	6.41E-03	5.57E-04
	34	1119.59	6.84E+01	33.18	5.71E-03	4.80E-04
	35	1205.75	2.83E+01	24.50	5.38E-03	4.68E-04
M	36	1216.33	2.12E+01	23.99	5.34E-03	4.73E-04
m	37	1220.83	1.51E+01	21.63	5.33E-03	4.75E-04
	38	1238.45	3.65E+01	27.22	5.27E-03	4.83E-04
	39	1266.95	2.00E+01	15.62	5.18E-03	4.96E-04
	40	1377.62	2.80E+01	17.00	4.87E-03	5.08E-04
	41	1408.02	8.76E+00	11.37	4.79E-03	4.95E-04
M	42	1461.14	6.15E+02	51.01	4.67E-03	4.73E-04
m	43	1465.21	1.40E+01	39.02	4.66E-03	4.71E-04
	44	1509.86	1.70E+01	13.81	4.57E-03	4.53E-04
	45	1610.09	6.38E+00	6.65	4.39E-03	4.11E-04
	46	1730.16	7.42E+00	10.00	4.23E-03	3.62E-04
	47	1765.11	4.17E+01	19.27	4.18E-03	3.47E-04
	48	1803.34	1.10E+01	6.63	4.14E-03	3.31E-04
	49	1847.88	6.50E+00	9.21	4.10E-03	3.18E-04
	50	2155.56	1.05E+01	9.38	3.94E-03	3.18E-04
	51	2206.07	3.09E+01	14.43	3.93E-03	3.18E-04
	52	2614.98	6.59E+01	17.10	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.41	1.36E+02	68.69	7.29E+01	8.80E+00	6.27E+01	6.92E+01
	2	76.39	6.60E+02	122.11			6.60E+02	1.22E+02
	3	88.10	1.41E+02	76.77	6.84E+00	1.23E+00	1.34E+02	7.68E+01
	4	93.50	1.44E+02	82.09	6.54E+01	3.76E+00	7.82E+01	8.22E+01
	5	104.47	6.69E+01	59.33			6.69E+01	5.93E+01
	6	209.73	5.46E+01	61.87			5.46E+01	6.19E+01
M	7	238.82	4.60E+02	59.75	1.43E+01	7.07E+00	4.46E+02	6.02E+01
m	8	242.20	1.17E+02	46.75			1.17E+02	4.67E+01
	9	269.98	4.71E+01	53.96	1.77E+00	6.25E+00	4.54E+01	5.43E+01
	10	295.19	1.74E+02	58.21	9.61E+00	5.92E+00	1.64E+02	5.85E+01
	11	300.38	2.91E+01	33.69			2.91E+01	3.37E+01
	12	328.18	3.24E+01	34.81			3.24E+01	3.48E+01
	13	338.44	8.23E+01	50.52			8.23E+01	5.05E+01
M	14	349.21	2.06E+01	18.82			2.06E+01	1.88E+01
m	15	352.05	3.72E+02	47.98	1.56E+01	5.52E+00	3.57E+02	4.83E+01
	16	409.12	3.51E+01	37.68			3.51E+01	3.77E+01
	17	438.74	3.05E+01	30.50			3.05E+01	3.05E+01
M	18	507.38	3.11E+01	22.91			3.11E+01	2.29E+01
m	19	511.06	1.60E+02	41.82	8.01E+01	5.53E+00	8.02E+01	4.22E+01
M	20	579.34	1.54E+01	11.18			1.54E+01	1.12E+01
m	21	583.33	1.47E+02	32.94	6.24E+00	3.96E+00	1.41E+02	3.32E+01
	22	609.56	3.19E+02	55.56	1.38E+01	3.84E+00	3.05E+02	5.57E+01
	23	625.36	2.59E+01	29.37			2.59E+01	2.94E+01
	24	660.52	2.43E+01	27.28			2.43E+01	2.73E+01
M	25	671.40	1.36E+01	10.54			1.36E+01	1.05E+01
m	26	675.05	1.87E+01	21.61			1.87E+01	2.16E+01
	27	727.75	2.46E+01	26.84			2.46E+01	2.68E+01
	28	769.12	2.61E+01	31.30			2.61E+01	3.13E+01
	29	784.82	1.99E+01	25.14			1.99E+01	2.51E+01
	30	795.32	4.15E+01	27.27			4.15E+01	2.73E+01
	31	804.88	3.28E+01	23.58			3.28E+01	2.36E+01
	32	911.60	1.22E+02	35.25	7.18E+00	2.77E+00	1.15E+02	3.54E+01
	33	969.11	5.44E+01	28.07			5.44E+01	2.81E+01
	34	1119.59	6.84E+01	33.18			6.84E+01	3.32E+01
	35	1205.75	2.83E+01	24.50			2.83E+01	2.45E+01
M	36	1216.33	2.12E+01	23.99			2.12E+01	2.40E+01
m	37	1220.83	1.51E+01	21.63			1.51E+01	2.16E+01
	38	1238.45	3.65E+01	27.22	1.77E+00	2.41E+00	3.47E+01	2.73E+01
	39	1266.95	2.00E+01	15.62			2.00E+01	1.56E+01
	40	1377.62	2.80E+01	17.00			2.80E+01	1.70E+01
	41	1408.02	8.76E+00	11.37			8.76E+00	1.14E+01
M	42	1461.14	6.15E+02	51.01	1.14E+01	2.53E+00	6.04E+02	5.11E+01
m	43	1465.21	1.40E+01	39.02			1.40E+01	3.90E+01
	44	1509.86	1.70E+01	13.81			1.70E+01	1.38E+01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
45	1610.09	6.38E+00	6.65			6.38E+00	6.65E+00
46	1730.16	7.42E+00	10.00			7.42E+00	1.00E+01
47	1765.11	4.17E+01	19.27	3.50E+00	2.20E+00	3.82E+01	1.94E+01
48	1803.34	1.10E+01	6.63			1.10E+01	6.63E+00
49	1847.88	6.50E+00	9.21			6.50E+00	9.21E+00
50	2155.56	1.05E+01	9.38			1.05E+01	9.38E+00
51	2206.07	3.09E+01	14.43			3.09E+01	1.44E+01
52	2614.98	6.59E+01	17.10	8.08E+00	1.71E+00	5.78E+01	1.72E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.41	1.36E+02	68.69	7.29E+01	8.80E+00	6.27E+01	6.92E+01
	2	76.39	6.60E+02	122.11			6.60E+02	1.22E+02
	3	88.10	1.41E+02	76.77	6.84E+00	1.23E+00	1.34E+02	7.68E+01
	4	93.50	1.44E+02	82.09	6.54E+01	3.76E+00	7.82E+01	8.22E+01
	5	104.47	6.69E+01	59.33			6.69E+01	5.93E+01
	6	209.73	5.46E+01	61.87			5.46E+01	6.19E+01
M	7	238.82	4.60E+02	59.75	1.43E+01	7.07E+00	4.46E+02	6.02E+01
m	8	242.20	1.17E+02	46.75			1.17E+02	4.67E+01
	9	269.98	4.71E+01	53.96	1.77E+00	6.25E+00	4.54E+01	5.43E+01
	10	295.19	1.74E+02	58.21	9.61E+00	5.92E+00	1.64E+02	5.85E+01
	11	300.38	2.91E+01	33.69			2.91E+01	3.37E+01
	12	328.18	3.24E+01	34.81			3.24E+01	3.48E+01
	13	338.44	8.23E+01	50.52			8.23E+01	5.05E+01
M	14	349.21	2.06E+01	18.82			2.06E+01	1.88E+01
m	15	352.05	3.72E+02	47.98	1.56E+01	5.52E+00	3.57E+02	4.83E+01
	16	409.12	3.51E+01	37.68			3.51E+01	3.77E+01
	17	438.74	3.05E+01	30.50			3.05E+01	3.05E+01
M	18	507.38	3.11E+01	22.91			3.11E+01	2.29E+01
m	19	511.06	1.60E+02	41.82	8.01E+01	5.53E+00	8.02E+01	4.22E+01
M	20	579.34	1.54E+01	11.18			1.54E+01	1.12E+01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	21	583.33	1.47E+02	32.94	6.24E+00	3.96E+00	1.41E+02	3.32E+01
	22	609.56	3.19E+02	55.56	1.38E+01	3.84E+00	3.05E+02	5.57E+01
	23	625.36	2.59E+01	29.37			2.59E+01	2.94E+01
	24	660.52	2.43E+01	27.28			2.43E+01	2.73E+01
M	25	671.40	1.36E+01	10.54			1.36E+01	1.05E+01
m	26	675.05	1.87E+01	21.61			1.87E+01	2.16E+01
	27	727.75	2.46E+01	26.84			2.46E+01	2.68E+01
	28	769.12	2.61E+01	31.30			2.61E+01	3.13E+01
	29	784.82	1.99E+01	25.14			1.99E+01	2.51E+01
	30	795.32	4.15E+01	27.27			4.15E+01	2.73E+01
	31	804.88	3.28E+01	23.58			3.28E+01	2.36E+01
	32	911.60	1.22E+02	35.25	7.18E+00	2.77E+00	1.15E+02	3.54E+01
	33	969.11	5.44E+01	28.07			5.44E+01	2.81E+01
	34	1119.59	6.84E+01	33.18			6.84E+01	3.32E+01
	35	1205.75	2.83E+01	24.50			2.83E+01	2.45E+01
M	36	1216.33	2.12E+01	23.99			2.12E+01	2.40E+01
m	37	1220.83	1.51E+01	21.63			1.51E+01	2.16E+01
	38	1238.45	3.65E+01	27.22	1.77E+00	2.41E+00	3.47E+01	2.73E+01
	39	1266.95	2.00E+01	15.62			2.00E+01	1.56E+01
	40	1377.62	2.80E+01	17.00			2.80E+01	1.70E+01
	41	1408.02	8.76E+00	11.37			8.76E+00	1.14E+01
M	42	1461.14	6.15E+02	51.01	1.14E+01	2.53E+00	6.04E+02	5.11E+01
m	43	1465.21	1.40E+01	39.02			1.40E+01	3.90E+01
	44	1509.86	1.70E+01	13.81			1.70E+01	1.38E+01
	45	1610.09	6.38E+00	6.65			6.38E+00	6.65E+00
	46	1730.16	7.42E+00	10.00			7.42E+00	1.00E+01
	47	1765.11	4.17E+01	19.27	3.50E+00	2.20E+00	3.82E+01	1.94E+01
	48	1803.34	1.10E+01	6.63			1.10E+01	6.63E+00
	49	1847.88	6.50E+00	9.21			6.50E+00	9.21E+00
	50	2155.56	1.05E+01	9.38			1.05E+01	9.38E+00
	51	2206.07	3.09E+01	14.43			3.09E+01	1.44E+01
	52	2614.98	6.59E+01	17.10	8.08E+00	1.71E+00	5.78E+01	1.72E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.983	1460.81	*	10.67	1.49E+01	2.00E+00
GA-67	0.716	93.31	*	35.70	2.54E+01	9.54E+01
		208.95	*	2.24	4.13E+02	1.49E+03
		300.22	*	16.00	3.93E+01	1.49E+02
CD-109	0.999	88.03	*	3.72	1.63E+00	9.72E-01
SN-126	0.955	87.57	*	37.00	1.58E-01	9.35E-02
TL-208	0.882	583.14	*	30.22	6.02E-01	1.51E-01
		860.37		4.48		
		2614.66	*	35.85	4.91E-01	1.51E-01
PB-210	0.999	46.50	*	4.25	1.37E+00	1.52E+00
BI-212	0.723	727.17	*	11.80	3.19E-01	3.48E-01
		1620.62		2.75		
PB-212	0.993	238.63	*	44.60	6.90E-01	1.12E-01
		300.09	*	3.41	6.89E-01	8.00E-01
BI-214	0.897	609.31	*	46.30	8.77E-01	1.77E-01
		1120.29	*	15.10	9.80E-01	4.82E-01
		1764.49	*	15.80	7.13E-01	3.67E-01
		2204.22		4.98		
PB-214	0.998	295.21	*	19.19	6.82E-01	2.52E-01
		351.92	*	37.19	8.63E-01	1.39E-01
AC-228	0.977	338.32	*	11.40	6.32E-01	3.92E-01
		911.07	*	27.70	7.62E-01	2.43E-01
		969.11	*	16.60	6.31E-01	3.30E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:17:24PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.39	1.83358E-01	9.25		
	5	104.47	1.85956E-02	44.31	Tol.	EU-155
m	8	242.20	3.24636E-02	20.00		
	9	269.98	1.26005E-02	59.88		
	12	328.18	9.00709E-03	53.68	Tol.	LA-140
M	14	349.21	5.73518E-03	45.58		

00477

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	16	409.12	9.74456E-03	53.71		
	17	438.74	8.47222E-03	50.01	D-Esc	
M	18	507.38	8.64244E-03	36.82		
m	19	511.06	2.22819E-02	26.30	Sum	
M	20	579.34	4.28005E-03	36.28		
	23	625.36	7.19246E-03	56.71		
	24	660.52	6.74680E-03	56.15		
M	25	671.40	3.78413E-03	38.67	Sum	
m	26	675.05	5.20140E-03	57.70		
	28	769.12	7.25806E-03	59.89		
	29	784.82	5.52609E-03	63.18		
	30	795.32	1.15278E-02	32.85	Tol.	CS-134
	31	804.88	9.10590E-03	35.97		
	35	1205.75	7.85156E-03	43.34		
M	36	1216.33	5.89326E-03	56.55		
m	37	1220.83	4.19835E-03	71.57	Tol.	TA-182
	38	1238.45	9.63865E-03	39.38	Tol.	CO-56
	39	1266.95	5.54293E-03	39.14		
	40	1377.62	7.78455E-03	30.33		
	41	1408.02	2.43464E-03	64.86	Tol.	EU-152
m	43	1465.21	3.87646E-03	139.79		
	44	1509.86	4.71111E-03	40.72		
	45	1610.09	1.77083E-03	52.17		
	46	1730.16	2.06197E-03	67.36		
	48	1803.34	3.05556E-03	30.15		
	49	1847.88	1.80556E-03	70.82	Sum	
	50	2155.56	2.91667E-03	44.67		
	51	2206.07	8.57026E-03	23.39		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	1.49E+01	2.00E+00
GA-67	0.71	93.31	*	35.70	2.54E+01	9.54E+01
		208.95	*	2.24	4.13E+02	1.49E+03
		300.22	*	16.00	3.93E+01	1.49E+02
CD-109	0.99	88.03	*	3.72	1.63E+00	9.72E-01
SN-126	0.95	87.57	*	37.00	1.58E-01	9.35E-02
TL-208	0.88	583.14	*	30.22	6.02E-01	1.51E-01
		860.37		4.48		
		2614.66	*	35.85	4.91E-01	1.51E-01
PB-210	0.99	46.50	*	4.25	1.37E+00	1.52E+00
BI-212	0.72	727.17	*	11.80	3.19E-01	3.48E-01
		1620.62		2.75		
PB-212	0.99	238.63	*	44.60	6.90E-01	1.12E-01
		300.09	*	3.41	6.89E-01	8.00E-01
BI-214	0.89	609.31	*	46.30	8.77E-01	1.77E-01
		1120.29	*	15.10	9.80E-01	4.82E-01
		1764.49	*	15.80	7.13E-01	3.67E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	6.82E-01	2.52E-01
		351.92	*	37.19	8.63E-01	1.39E-01
AC-228	0.97	338.32	*	11.40	6.32E-01	3.92E-01
		911.07	*	27.70	7.62E-01	2.43E-01
		969.11	*	16.60	6.31E-01	3.30E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.983	1.49E+01	2.00E+00	
	GA-67	0.716	1.99E+01	7.19E+01	
?	CD-109	0.999	1.63E+00	9.72E-01	
?	SN-126	0.955	1.58E-01	9.35E-02	

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
TL-208	0.882	5.47E-01	1.07E-01	
PB-210	0.999	1.37E+00	1.52E+00	
BI-212	0.723	3.19E-01	3.48E-01	
PB-212	0.993	6.84E-01	1.11E-01	
BI-214	0.897	8.59E-01	1.51E-01	
PB-214	0.998	8.20E-01	1.22E-01	
AC-228	0.977	6.99E-01	1.75E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:17:24PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.39	1.83358E-01	9.25		
	5	104.47	1.85956E-02	44.31	Tol.	EU-155
m	8	242.20	3.24636E-02	20.00		
	9	269.98	1.26005E-02	59.88		
	12	328.18	9.00709E-03	53.68	Tol.	LA-140
M	14	349.21	5.73518E-03	45.58		
	16	409.12	9.74456E-03	53.71		
	17	438.74	8.47222E-03	50.01	D-Esc	
M	18	507.38	8.64244E-03	36.82		
m	19	511.06	2.22819E-02	26.30	Sum	
M	20	579.34	4.28005E-03	36.28		
	23	625.36	7.19246E-03	56.71		
	24	660.52	6.74680E-03	56.15		
M	25	671.40	3.78413E-03	38.67	Sum	
m	26	675.05	5.20140E-03	57.70		
	28	769.12	7.25806E-03	59.89		
	29	784.82	5.52609E-03	63.18		
	30	795.32	1.15278E-02	32.85	Tol.	CS-134
	31	804.88	9.10590E-03	35.97		
	35	1205.75	7.85156E-03	43.34		
M	36	1216.33	5.89326E-03	56.55		
m	37	1220.83	4.19835E-03	71.57	Tol.	TA-182
	38	1238.45	9.63865E-03	39.38	Tol.	CO-56
	39	1266.95	5.54293E-03	39.14		
	40	1377.62	7.78455E-03	30.33		
	41	1408.02	2.43464E-03	64.86	Tol.	EU-152
m	43	1465.21	3.87646E-03	139.79		
	44	1509.86	4.71111E-03	40.72		
	45	1610.09	1.77083E-03	52.17		
	46	1730.16	2.06197E-03	67.36		
	48	1803.34	3.05556E-03	30.15		
	49	1847.88	1.80556E-03	70.82	Sum	
	50	2155.56	2.91667E-03	44.67		
	51	2206.07	8.57026E-03	23.39		

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	2.41E-01	6.34E-01	6.34E-01
+	NA-22	1274.54		99.94	1.27E-02	7.19E-02	7.19E-02
+	NA-24	1368.53		99.99	2.02E+11	1.65E+11	3.04E+11
		2754.09		99.86	1.38E+10		1.65E+11
+	AL-26	1808.65		99.76	4.98E-04	4.49E-02	4.49E-02
+	K-40	1460.81	*	10.67	1.49E+01	1.08E+00	1.08E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.09E-03	4.08E-02	4.08E-02
		78.34		96.00	1.86E-01		5.71E-02
+	SC-46	889.25		99.98	2.85E-03	7.41E-02	7.41E-02
		1120.51		99.99	1.41E-01		1.32E-01
+	V-48	983.52		99.98	-1.32E-01	1.94E-01	1.94E-01
		1312.10		97.50	4.47E-02		2.11E-01
+	CR-51	320.08		9.83	-1.43E-02	8.23E-01	8.23E-01
+	MN-54	834.83		99.97	-7.68E-02	6.07E-02	6.07E-02
+	CO-56	846.75		99.96	1.38E-03	7.59E-02	7.59E-02
		1037.75		14.03	2.02E-02		6.01E-01
		1238.25		67.00	1.92E-01		1.88E-01
		1771.40		15.51	3.20E-02		3.81E-01
		2598.48		16.90	6.26E-02		2.74E-01
+	CO-57	122.06		85.51	2.04E-02	4.65E-02	4.65E-02
		136.48		10.60	-3.66E-02		3.96E-01
+	CO-58	810.76		99.40	7.38E-03	6.55E-02	6.55E-02
+	FE-59	1099.22		56.50	3.01E-02	1.94E-01	1.94E-01
		1291.56		43.20	-1.54E-02		2.80E-01
+	CO-60	1173.22		100.00	-2.73E-02	6.37E-02	7.20E-02
		1332.49		100.00	2.39E-03		6.37E-02
+	ZN-65	1115.52		50.75	-1.09E-02	1.63E-01	1.63E-01
+	GA-67	93.31	*	35.70	2.54E+01	4.38E+01	4.38E+01
		208.95	*	2.24	4.13E+02		7.68E+02
		300.22	*	16.00	3.93E+01		7.45E+01
+	SE-75	121.11		16.70	-3.23E-02	7.60E-02	2.54E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	5.16E-03	7.60E-02	7.60E-02
		264.65		59.80	-5.36E-04		8.36E-02
		279.53		25.20	-6.65E-03		2.06E-01
		400.65		11.40	8.04E-02		4.40E-01
+	RB-82	776.52		13.00	4.58E-01	9.47E-01	9.47E-01
+	RB-83	520.41		46.00	-7.64E-02	1.03E-01	1.03E-01
		529.64		30.30	5.87E-02		1.92E-01
		552.65		16.40	-1.10E-01		3.16E-01
+	KR-85	513.99		0.43	-5.62E+00	1.32E+01	1.32E+01
+	SR-85	513.99		99.27	-3.24E-02	7.60E-02	7.60E-02
+	Y-88	898.02		93.40	2.79E-02	6.74E-02	7.12E-02
		1836.01		99.38	7.46E-03		6.74E-02
+	NB-93M	16.57		9.43	-8.28E+03	4.77E+03	4.77E+03
+	NB-94	702.63		100.00	-1.18E-02	5.43E-02	5.43E-02
		871.10		100.00	-1.77E-02		5.47E-02
+	NB-95	765.79		99.81	-4.47E-03	1.14E-01	1.14E-01
+	NB-95M	235.69		25.00	-2.26E+02	3.71E+01	3.71E+01
+	ZR-95	724.18		43.70	-1.85E-03	1.42E-01	2.03E-01
		756.72		55.30	-2.06E-03		1.42E-01
+	MO-99	181.06		6.20	6.65E+01	3.22E+02	5.39E+02
		739.58		12.80	-5.17E+01		3.22E+02
		778.00		4.50	4.73E+02		9.62E+02
+	RU-103	497.08		89.00	-1.18E-02	7.80E-02	7.80E-02
+	RU-106	621.84		9.80	6.71E-02	6.03E-01	6.03E-01
+	AG-108M	433.93		89.90	3.01E-03	4.27E-02	4.27E-02
		614.37		90.40	-6.62E-03		6.76E-02
		722.95		90.50	1.09E-02		6.56E-02
+	CD-109	88.03	*	3.72	1.63E+00	1.49E+00	1.49E+00
+	AG-110M	657.75		93.14	5.96E-03	6.60E-02	6.60E-02
		677.61		10.53	-6.84E-02		5.54E-01
		706.67		16.46	2.06E-01		3.92E-01
		763.93		21.98	-6.72E-02		2.89E-01
		884.67		71.63	1.42E-02		9.19E-02
		1384.27		23.94	1.14E-02		2.37E-01
+	CD-113M	263.70		0.02	3.08E+01	1.87E+02	1.87E+02
+	SN-113	255.12		1.93	-9.37E-01	8.56E-02	2.58E+00
		391.69		64.90	2.46E-02		8.56E-02
+	TE123M	159.00		84.10	2.06E-02	5.58E-02	5.58E-02
+	SB-124	602.71		97.87	3.77E-03	8.09E-02	8.09E-02
		645.85		7.26	-1.76E-01		1.07E+00
		722.78		11.10	1.20E-01		7.23E-01
		1691.02		49.00	4.22E-02		1.50E-01
+	I-125	35.49		6.49	7.44E-01	4.16E+00	4.16E+00
+	SB-125	176.33		6.89	1.32E-03	1.57E-01	6.01E-01
		427.89		29.33	5.44E-02		1.57E-01
		463.38		10.35	2.42E-01		4.86E-01
		600.56		17.80	4.50E-03		3.28E-01
		635.90		11.32	1.18E-01		4.94E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	9.34E-03	2.22E-01	2.22E-01
		666.33		99.60	-5.79E-02		2.43E-01
		695.00		99.60	2.77E-02		2.62E-01
		720.50		53.80	1.34E-01		4.71E-01
+	SN-126	87.57	*	37.00	1.58E-01	1.44E-01	1.44E-01
+	SB-127	473.00		25.00	6.33E-01	1.88E+01	1.98E+01
		685.20		35.70	5.87E+00		1.88E+01
		783.80		14.70	6.90E+00		4.78E+01
+	I-129	29.78		57.00	-3.54E-02	9.49E-01	9.49E-01
		33.60		13.20	9.29E-01		2.05E+00
		39.58		7.52	-1.59E-01		1.73E+00
+	I-131	284.30		6.05	5.44E-01	4.71E-01	6.89E+00
		364.48		81.20	1.90E-02		4.71E-01
		636.97		7.26	-1.75E+00		7.15E+00
		722.89		1.80	5.29E+00		3.18E+01
+	TE-132	49.72		13.10	-2.12E+00	1.28E+01	1.06E+02
		228.16		88.00	-1.60E-01		1.28E+01
+	BA-133	81.00		33.00	1.59E-02	7.44E-02	1.00E-01
		302.84		17.80	-3.32E-02		2.41E-01
		356.01		60.00	-1.64E-01		7.44E-02
+	I-133	529.87		86.30	1.13E+07	7.28E+07	7.28E+07
+	XE-133	81.00		38.00	4.44E-01	2.80E+00	2.80E+00
+	CS-134	563.23		8.38	-3.46E-02	7.37E-02	4.76E-01
		569.32		15.43	5.46E-02		3.10E-01
		604.70		97.60	7.99E-03		7.37E-02
		795.84		85.40	9.24E-02		8.02E-02
		801.93		8.73	-1.35E-01		6.22E-01
+	CS-135	268.24		16.00	-3.77E-02	2.94E-01	2.94E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	1.25E+00	2.18E-01	2.27E+00
		163.89		4.61	1.87E+00		3.43E+00
		176.55		13.56	-2.85E-01		1.20E+00
		273.65		12.66	-2.76E-01		1.42E+00
		340.57		48.50	-1.63E-01		4.28E-01
		818.50		99.70	-5.14E-02		2.18E-01
		1048.07		79.60	1.51E-01		3.46E-01
		1235.34		19.70	1.18E-02		1.84E+00
+	CS-137	661.65		85.12	-4.42E-04	6.85E-02	6.85E-02
+	LA-138	788.74		34.00	5.22E-03	7.70E-02	1.72E-01
		1435.80		66.00	1.06E-02		7.70E-02
+	CE-139	165.85		80.35	4.68E-03	5.63E-02	5.63E-02
+	BA-140	162.64		6.70	-5.05E-01	7.11E-01	2.42E+00
		304.84		4.50	6.40E-02		3.93E+00
		423.70		3.20	-1.87E-01		5.93E+00
		437.55		2.00	2.07E+00		9.47E+00
		537.32		25.00	-6.01E-02		7.11E-01
+	LA-140	328.77		20.50	5.19E-01	2.37E-01	9.46E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03	45.50	-2.34E-03	2.37E-01	4.18E-01
		815.85	23.50	1.70E-01		9.40E-01
		1596.49	95.49	1.03E-01		2.37E-01
+	CE-141	145.44	48.40	6.18E-03	1.44E-01	1.44E-01
+	CE-143	57.36	11.80	-1.95E+04	8.44E+04	2.00E+05
		293.26	42.00	1.56E+04		8.44E+04
		664.55	5.20	-3.59E+04		6.77E+05
+	CE-144	133.54	10.80	-2.96E-01	3.63E-01	3.63E-01
+	PM-144	476.78	42.00	4.47E-02	5.69E-02	1.17E-01
		618.01	98.60	1.31E-02		5.69E-02
		696.49	99.49	8.43E-03		6.23E-02
+	PM-145	36.85	21.70	-3.15E-01	3.89E-01	7.58E-01
		37.36	39.70	-1.62E-01		3.89E-01
		42.30	15.10	4.74E-01		6.82E-01
		72.40	2.31	-6.19E-01		1.66E+00
+	PM-146	453.90	39.94	8.36E-03	1.14E-01	1.14E-01
		735.90	14.01	1.50E-01		4.27E-01
		747.13	13.10	-1.26E-01		4.35E-01
+	ND-147	91.11	28.90	-4.28E-01	9.07E-01	9.07E-01
		531.02	13.10	6.03E-03		1.87E+00
+	PM-149	285.90	3.10	1.27E+03	5.27E+03	5.27E+03
+	EU-152	121.78	20.50	7.99E-02	1.82E-01	1.82E-01
		244.69	5.40	-1.20E-02		8.79E-01
		344.27	19.13	9.18E-02		2.31E-01
		778.89	9.20	2.53E-01		6.26E-01
		964.01	10.40	9.98E-02		7.85E-01
		1085.78	7.22	-8.17E-01		7.34E-01
		1112.02	9.60	1.33E-01		7.23E-01
		1407.95	14.94	1.54E-01		3.98E-01
+	GD-153	97.43	31.30	3.60E-02	1.24E-01	1.24E-01
		103.18	22.20	1.40E-02		1.81E-01
+	EU-154	123.07	40.50	-4.39E-02	8.93E-02	8.93E-02
		723.30	19.70	5.04E-02		3.03E-01
		873.19	11.50	2.43E-02		5.08E-01
		996.32	10.30	-2.05E-01		5.81E-01
		1004.76	17.90	9.52E-02		3.78E-01
		1274.45	35.50	3.53E-02		2.00E-01
+	EU-155	86.50	30.90	-7.58E-02	1.60E-01	1.60E-01
		105.30	20.70	1.96E-01		1.91E-01
+	EU-156	811.77	10.40	-2.69E-01	1.54E+00	1.54E+00
		1153.47	7.20	3.47E-01		3.60E+00
		1230.71	8.90	1.54E+00		3.01E+00
+	HO-166M	184.41	72.60	2.61E-02	7.12E-02	7.12E-02
		280.45	29.60	-4.87E-03		1.51E-01
		410.94	11.10	2.21E-01		4.40E-01
		711.69	54.10	7.22E-02		1.15E-01
+	TM-171	66.72	0.14	1.72E+01	2.91E+01	2.91E+01
+	HF-172	81.75	4.52	-2.96E-01	3.38E-01	7.38E-01
		125.81	11.30	-3.95E-02		3.38E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	8.10E-01	1.69E+00	3.30E+00
		810.06		16.63	5.17E-01		4.59E+00
		912.12		15.25	2.29E+01		1.13E+01
		1093.66		62.50	-4.86E-01		1.69E+00
+	LU-173	100.72		5.24	2.97E-02	2.46E-01	7.06E-01
		272.11		21.20	9.43E-02		2.46E-01
+	HF-175	343.40		84.00	3.64E-03	6.82E-02	6.82E-02
+	LU-176	88.34		13.30	4.79E-01	4.66E-02	3.79E-01
		201.83		86.00	-1.43E-03		4.82E-02
		306.78		94.00	-2.05E-03		4.66E-02
+	TA-182	67.75		41.20	8.31E-03	1.10E-01	1.10E-01
		1121.30		34.90	3.45E-01		3.51E-01
		1189.05		16.23	1.06E-01		5.27E-01
		1221.41		26.98	-1.29E-01		3.24E-01
		1231.02		11.44	2.60E-01		8.10E-01
+	IR-192	308.46		29.68	2.83E-02	1.18E-01	1.92E-01
		468.07		48.10	1.57E-02		1.18E-01
+	HG-203	279.19		77.30	-8.89E-03	8.57E-02	8.57E-02
+	BI-207	569.67		97.72	8.43E-03	4.79E-02	4.79E-02
		1063.62		74.90	-2.52E-02		8.50E-02
+	TL-208	583.14	*	30.22	6.02E-01	1.35E-01	2.95E-01
		860.37		4.48	1.15E+00		1.54E+00
		2614.66	*	35.85	4.91E-01		1.35E-01
+	BI-210M	262.00		45.00	-1.28E-02	9.47E-02	9.47E-02
		300.00		23.00	1.58E-01		2.10E-01
+	PB-210	46.50	*	4.25	1.37E+00	2.48E+00	2.48E+00
+	PB-211	404.84		2.90	-1.72E-01	1.37E+00	1.37E+00
		831.96		2.90	8.26E-01		2.16E+00
+	BI-212	727.17	*	11.80	3.19E-01	5.66E-01	5.66E-01
		1620.62		2.75	-1.03E+00		1.54E+00
+	PB-212	238.63	*	44.60	6.90E-01	1.81E-01	1.81E-01
		300.09	*	3.41	6.89E-01		1.31E+00
+	BI-214	609.31	*	46.30	8.77E-01	2.13E-01	2.13E-01
		1120.29	*	15.10	9.80E-01		7.16E-01
		1764.49	*	15.80	7.13E-01		5.10E-01
		2204.22		4.98	1.36E+00		1.72E+00
+	PB-214	295.21	*	19.19	6.82E-01	2.16E-01	3.71E-01
		351.92	*	37.19	8.63E-01		2.16E-01
+	RN-219	401.80		6.50	2.24E-01	6.64E-01	6.64E-01
+	RA-223	323.87		3.88	1.61E-01	1.09E+00	1.09E+00
+	RA-224	240.98		3.95	5.20E+00	2.12E+00	2.12E+00
+	RA-225	40.00		31.00	-1.27E-01	1.38E+00	1.38E+00
+	RA-226	186.21		3.28	2.48E+00	1.59E+00	1.59E+00
+	TH-227	50.10		8.40	-1.21E-02	5.18E-01	6.03E-01
		236.00		11.50	-3.16E+00		5.18E-01
		256.20		6.30	-7.09E-03		6.78E-01
+	AC-228	338.32	*	11.40	6.32E-01	3.23E-01	6.17E-01
		911.07	*	27.70	7.62E-01		3.23E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	6.31E-01	3.23E-01	4.87E-01
+	TH-230	48.44		16.90	-3.24E-01	3.32E-01	3.32E-01
		62.85		4.60	1.25E+00		1.01E+00
		67.67		0.37	7.90E-01		1.04E+01
+	PA-231	283.67		1.60	2.13E-01	1.86E+00	2.70E+00
		302.67		2.30	-2.56E-01		1.86E+00
+	TH-231	25.64		14.70	-8.31E-01	5.46E-01	1.20E+01
		84.21		6.40	3.49E-01		5.46E-01
+	PA-233	311.98		38.60	1.97E-01	2.33E-01	2.33E-01
+	PA-234	131.20		20.40	1.37E-01	1.91E-01	1.91E-01
		733.99		8.80	3.65E-01		6.82E-01
		946.00		12.00	-2.39E-02		5.33E-01
+	PA-234M	1001.03		0.92	-2.24E+00	6.66E+00	6.66E+00
+	TH-234	63.29		3.80	1.50E+00	1.21E+00	1.21E+00
+	U-235	143.76		10.50	1.89E-01	3.84E-01	3.84E-01
		163.35		4.70	-1.74E-01		8.30E-01
		205.31		4.70	5.71E-02		9.21E-01
+	NP-237	86.50		12.60	-1.84E-01	3.89E-01	3.89E-01
+	NP-239	106.10		22.70	-1.18E+02	3.85E+02	3.85E+02
		228.18		10.70	-1.13E+01		8.99E+02
		277.60		14.10	-3.42E+01		7.23E+02
+	AM-241	59.54		35.90	-3.66E-02	1.18E-01	1.18E-01
+	AM-243	74.67		66.00	-1.81E-01	7.41E-02	7.41E-02
+	CM-243	209.75		3.29	4.55E-01	3.17E-01	1.41E+00
		228.14		10.60	-4.95E-03		3.96E-01
		277.60		14.00	-1.50E-02		3.17E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	6.34E-01	6.34E-01	2.41E-01	2.97E-01
	NA-22	1274.54		99.94	7.19E-02	7.19E-02	1.27E-02	3.26E-02
	NA-24	1368.53		99.99	3.04E+11	1.65E+11	2.02E+11	1.36E+11
		2754.09		99.86	1.65E+11		1.38E+10	6.40E+10
	AL-26	1808.65		99.76	4.49E-02	4.49E-02	4.98E-04	1.84E-02
+	K-40	1460.81	*	10.67	1.08E+00	1.08E+00	1.49E+01	5.08E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.08E-02	4.08E-02	3.09E-03	1.97E-02
		78.34		96.00	5.71E-02		1.86E-01	2.79E-02
	SC-46	889.25		99.98	7.41E-02	7.41E-02	2.85E-03	3.40E-02
		1120.51		99.99	1.32E-01		1.41E-01	6.26E-02
	V-48	983.52		99.98	1.94E-01	1.94E-01	-1.32E-01	8.86E-02
		1312.10		97.50	2.11E-01		4.47E-02	9.50E-02
	CR-51	320.08		9.83	8.23E-01	8.23E-01	-1.43E-02	3.89E-01
	MN-54	834.83		99.97	6.07E-02	6.07E-02	-7.68E-02	2.79E-02
	CO-56	846.75		99.96	7.59E-02	7.59E-02	1.38E-03	3.50E-02
		1037.75		14.03	6.01E-01		2.02E-02	2.76E-01
		1238.25		67.00	1.88E-01		1.92E-01	8.81E-02
		1771.40		15.51	3.81E-01		3.20E-02	1.58E-01
		2598.48		16.90	2.74E-01		6.26E-02	1.06E-01
	CO-57	122.06		85.51	4.65E-02	4.65E-02	2.04E-02	2.25E-02
		136.48		10.60	3.96E-01		-3.66E-02	1.91E-01
	CO-58	810.76		99.40	6.55E-02	6.55E-02	7.38E-03	2.98E-02
	FE-59	1099.22		56.50	1.94E-01	1.94E-01	3.01E-02	8.95E-02
		1291.56		43.20	2.80E-01		-1.54E-02	1.28E-01
	CO-60	1173.22		100.00	7.20E-02	6.37E-02	-2.73E-02	3.29E-02
		1332.49		100.00	6.37E-02		2.39E-03	2.85E-02
	ZN-65	1115.52		50.75	1.63E-01	1.63E-01	-1.09E-02	7.53E-02
+	GA-67	93.31	*	35.70	4.38E+01	4.38E+01	2.54E+01	2.14E+01
		208.95	*	2.24	7.68E+02		4.13E+02	3.74E+02
		300.22	*	16.00	7.45E+01		3.93E+01	3.54E+01
	SE-75	121.11		16.70	2.54E-01	7.60E-02	-3.23E-02	1.23E-01
		136.00		59.20	7.60E-02		5.16E-03	3.67E-02
		264.65		59.80	8.36E-02		-5.36E-04	3.98E-02
		279.53		25.20	2.06E-01		-6.65E-03	9.81E-02
		400.65		11.40	4.40E-01		8.04E-02	2.06E-01
	RB-82	776.52		13.00	9.47E-01	9.47E-01	4.58E-01	4.39E-01
	RB-83	520.41		46.00	1.03E-01	1.03E-01	-7.64E-02	4.74E-02
		529.64		30.30	1.92E-01		5.87E-02	8.96E-02
		552.65		16.40	3.16E-01		-1.10E-01	1.45E-01
	KR-85	513.99		0.43	1.32E+01	1.32E+01	-5.62E+00	6.22E+00
	SR-85	513.99		99.27	7.60E-02	7.60E-02	-3.24E-02	3.59E-02
	Y-88	898.02		93.40	7.12E-02	6.74E-02	2.79E-02	3.25E-02
		1836.01		99.38	6.74E-02		7.46E-03	2.89E-02
	NB-93M	16.57		9.43	4.77E+03	4.77E+03	-8.28E+03	2.32E+03
	NB-94	702.63		100.00	5.43E-02	5.43E-02	-1.18E-02	2.52E-02
		871.10		100.00	5.47E-02		-1.77E-02	2.50E-02
	NB-95	765.79		99.81	1.14E-01	1.14E-01	-4.47E-03	5.33E-02
	NB-95M	235.69		25.00	3.71E+01	3.71E+01	-2.26E+02	1.80E+01
	ZR-95	724.18		43.70	2.03E-01	1.42E-01	-1.85E-03	9.51E-02
		756.72		55.30	1.42E-01		-2.06E-03	6.59E-02

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	181.06		6.20	5.39E+02	3.22E+02	6.65E+01	2.60E+02
		739.58		12.80	3.22E+02		-5.17E+01	1.49E+02
		778.00		4.50	9.62E+02		4.73E+02	4.44E+02
	RU-103	497.08		89.00	7.80E-02	7.80E-02	-1.18E-02	3.62E-02
	RU-106	621.84		9.80	6.03E-01	6.03E-01	6.71E-02	2.82E-01
	AG-108M	433.93		89.90	4.27E-02	4.27E-02	3.01E-03	1.98E-02
		614.37		90.40	6.76E-02		-6.62E-03	3.18E-02
		722.95		90.50	6.56E-02		1.09E-02	3.05E-02
+	CD-109	88.03	*	3.72	1.49E+00	1.49E+00	1.63E+00	7.31E-01
	AG-110M	657.75		93.14	6.60E-02	6.60E-02	5.96E-03	3.08E-02
		677.61		10.53	5.54E-01		-6.84E-02	2.57E-01
		706.67		16.46	3.92E-01		2.06E-01	1.83E-01
		763.93		21.98	2.89E-01		-6.72E-02	1.34E-01
		884.67		71.63	9.19E-02		1.42E-02	4.23E-02
		1384.27		23.94	2.37E-01		1.14E-02	1.03E-01
	CD-113M	263.70		0.02	1.87E+02	1.87E+02	3.08E+01	8.94E+01
	SN-113	255.12		1.93	2.58E+00	8.56E-02	-9.37E-01	1.23E+00
		391.69		64.90	8.56E-02		2.46E-02	4.05E-02
	TE123M	159.00		84.10	5.58E-02	5.58E-02	2.06E-02	2.69E-02
	SB-124	602.71		97.87	8.09E-02	8.09E-02	3.77E-03	3.80E-02
		645.85		7.26	1.07E+00		-1.76E-01	4.98E-01
		722.78		11.10	7.23E-01		1.20E-01	3.37E-01
		1691.02		49.00	1.50E-01		4.22E-02	6.43E-02
	I-125	35.49		6.49	4.16E+00	4.16E+00	7.44E-01	2.01E+00
	SB-125	176.33		6.89	6.01E-01	1.57E-01	1.32E-03	2.89E-01
		427.89		29.33	1.57E-01		5.44E-02	7.34E-02
		463.38		10.35	4.86E-01		2.42E-01	2.28E-01
		600.56		17.80	3.28E-01		4.50E-03	1.54E-01
		635.90		11.32	4.94E-01		1.18E-01	2.30E-01
	SB-126	414.70		83.30	2.22E-01	2.22E-01	9.34E-03	1.04E-01
		666.33		99.60	2.43E-01		-5.79E-02	1.13E-01
		695.00		99.60	2.62E-01		2.77E-02	1.22E-01
		720.50		53.80	4.71E-01		1.34E-01	2.19E-01
+	SN-126	87.57	*	37.00	1.44E-01	1.44E-01	1.58E-01	7.06E-02
	SB-127	473.00		25.00	1.98E+01	1.88E+01	6.33E-01	9.22E+00
		685.20		35.70	1.88E+01		5.87E+00	8.78E+00
		783.80		14.70	4.78E+01		6.90E+00	2.22E+01
	I-129	29.78		57.00	9.49E-01	9.49E-01	-3.54E-02	4.58E-01
		33.60		13.20	2.05E+00		9.29E-01	9.93E-01
		39.58		7.52	1.73E+00		-1.59E-01	8.35E-01
	I-131	284.30		6.05	6.89E+00	4.71E-01	5.44E-01	3.28E+00
		364.48		81.20	4.71E-01		1.90E-02	2.21E-01
		636.97		7.26	7.15E+00		-1.75E+00	3.33E+00
		722.89		1.80	3.18E+01		5.29E+00	1.48E+01
	TE-132	49.72		13.10	1.06E+02	1.28E+01	-2.12E+00	5.07E+01
		228.16		88.00	1.28E+01		-1.60E-01	6.12E+00
	BA-133	81.00		33.00	1.00E-01	7.44E-02	1.59E-02	4.83E-02
		302.84		17.80	2.41E-01		-3.32E-02	1.14E-01
		356.01		60.00	7.44E-02		-1.64E-01	3.51E-02
	I-133	529.87		86.30	7.28E+07	7.28E+07	1.13E+07	3.38E+07
	XE-133	81.00		38.00	2.80E+00	2.80E+00	4.44E-01	1.35E+00
	CS-134	563.23		8.38	4.76E-01	7.37E-02	-3.46E-02	2.17E-01
		569.32		15.43	3.10E-01		5.46E-02	1.44E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-134	604.70	97.60	7.37E-02	7.37E-02	7.99E-03	3.50E-02
	795.84	85.40	8.02E-02		9.24E-02	3.75E-02
	801.93	8.73	6.22E-01		-1.35E-01	2.85E-01
CS-135	268.24	16.00	2.94E-01	2.94E-01	-3.77E-02	1.40E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	2.27E+00	2.18E-01	1.25E+00	1.10E+00
	163.89	4.61	3.43E+00		1.87E+00	1.65E+00
	176.55	13.56	1.20E+00		-2.85E-01	5.76E-01
	273.65	12.66	1.42E+00		-2.76E-01	6.77E-01
	340.57	48.50	4.28E-01		-1.63E-01	2.04E-01
	818.50	99.70	2.18E-01		-5.14E-02	1.00E-01
	1048.07	79.60	3.46E-01		1.51E-01	1.59E-01
	1235.34	19.70	1.84E+00		1.18E-02	8.54E-01
CS-137	661.65	85.12	6.85E-02	6.85E-02	-4.42E-04	3.20E-02
LA-138	788.74	34.00	1.72E-01	7.70E-02	5.22E-03	7.95E-02
	1435.80	66.00	7.70E-02		1.06E-02	3.32E-02
CE-139	165.85	80.35	5.63E-02	5.63E-02	4.68E-03	2.71E-02
BA-140	162.64	6.70	2.42E+00	7.11E-01	-5.05E-01	1.16E+00
	304.84	4.50	3.93E+00		6.40E-02	1.86E+00
	423.70	3.20	5.93E+00		-1.87E-01	2.78E+00
	437.55	2.00	9.47E+00		2.07E+00	4.44E+00
	537.32	25.00	7.11E-01		-6.01E-02	3.28E-01
LA-140	328.77	20.50	9.46E-01	2.37E-01	5.19E-01	4.49E-01
	487.03	45.50	4.18E-01		-2.34E-03	1.95E-01
	815.85	23.50	9.40E-01		1.70E-01	4.30E-01
	1596.49	95.49	2.37E-01		1.03E-01	1.02E-01
CE-141	145.44	48.40	1.44E-01	1.44E-01	6.18E-03	6.97E-02
CE-143	57.36	11.80	2.00E+05	8.44E+04	-1.95E+04	9.63E+04
	293.26	42.00	8.44E+04		1.56E+04	4.07E+04
	664.55	5.20	6.77E+05		-3.59E+04	3.17E+05
CE-144	133.54	10.80	3.63E-01	3.63E-01	-2.96E-01	1.75E-01
PM-144	476.78	42.00	1.17E-01	5.69E-02	4.47E-02	5.49E-02
	618.01	98.60	5.69E-02		1.31E-02	2.65E-02
	696.49	99.49	6.23E-02		8.43E-03	2.90E-02
PM-145	36.85	21.70	7.58E-01	3.89E-01	-3.15E-01	3.66E-01
	37.36	39.70	3.89E-01		-1.62E-01	1.88E-01
	42.30	15.10	6.82E-01		4.74E-01	3.30E-01
	72.40	2.31	1.66E+00		-6.19E-01	8.04E-01
PM-146	453.90	39.94	1.14E-01	1.14E-01	8.36E-03	5.35E-02
	735.90	14.01	4.27E-01		1.50E-01	1.98E-01
	747.13	13.10	4.35E-01		-1.26E-01	2.01E-01
ND-147	91.11	28.90	9.07E-01	9.07E-01	-4.28E-01	4.43E-01
	531.02	13.10	1.87E+00		6.03E-03	8.70E-01
PM-149	285.90	3.10	5.27E+03	5.27E+03	1.27E+03	2.51E+03
EU-152	121.78	20.50	1.82E-01	1.82E-01	7.99E-02	8.79E-02
	244.69	5.40	8.79E-01		-1.20E-02	4.22E-01
	344.27	19.13	2.31E-01		9.18E-02	1.09E-01
	778.89	9.20	6.26E-01		2.53E-01	2.89E-01
	964.01	10.40	7.85E-01		9.98E-02	3.67E-01
	1085.78	7.22	7.34E-01		-8.17E-01	3.27E-01
	1112.02	9.60	7.23E-01		1.33E-01	3.31E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	3.98E-01	1.82E-01	1.54E-01	1.75E-01
	GD-153	97.43		31.30	1.24E-01	1.24E-01	3.60E-02	5.97E-02
		103.18		22.20	1.81E-01		1.40E-02	8.78E-02
	EU-154	123.07		40.50	8.93E-02	8.93E-02	-4.39E-02	4.31E-02
		723.30		19.70	3.03E-01		5.04E-02	1.41E-01
		873.19		11.50	5.08E-01		2.43E-02	2.33E-01
		996.32		10.30	5.81E-01		-2.05E-01	2.64E-01
		1004.76		17.90	3.78E-01		9.52E-02	1.74E-01
		1274.45		35.50	2.00E-01		3.53E-02	9.06E-02
	EU-155	86.50		30.90	1.60E-01	1.60E-01	-7.58E-02	7.81E-02
		105.30		20.70	1.91E-01		1.96E-01	9.26E-02
	EU-156	811.77		10.40	1.54E+00	1.54E+00	-2.69E-01	7.00E-01
		1153.47		7.20	3.60E+00		3.47E-01	1.66E+00
		1230.71		8.90	3.01E+00		1.54E+00	1.39E+00
	HO-166M	184.41		72.60	7.12E-02	7.12E-02	2.61E-02	3.45E-02
		280.45		29.60	1.51E-01		-4.87E-03	7.19E-02
		410.94		11.10	4.40E-01		2.21E-01	2.08E-01
		711.69		54.10	1.15E-01		7.22E-02	5.40E-02
	TM-171	66.72		0.14	2.91E+01	2.91E+01	1.72E+01	1.40E+01
	HF-172	81.75		4.52	7.38E-01	3.38E-01	-2.96E-01	3.56E-01
		125.81		11.30	3.38E-01		-3.95E-02	1.63E-01
	LU-172	181.53		20.60	3.30E+00	1.69E+00	8.10E-01	1.59E+00
		810.06		16.63	4.59E+00		5.17E-01	2.09E+00
		912.12		15.25	1.13E+01		2.29E+01	5.38E+00
		1093.66		62.50	1.69E+00		-4.86E-01	7.78E-01
	LU-173	100.72		5.24	7.06E-01	2.46E-01	2.97E-02	3.41E-01
		272.11		21.20	2.46E-01		9.43E-02	1.18E-01
	HF-175	343.40		84.00	6.82E-02	6.82E-02	3.64E-03	3.23E-02
	LU-176	88.34		13.30	3.79E-01	4.66E-02	4.79E-01	1.85E-01
		201.83		86.00	4.82E-02		-1.43E-03	2.31E-02
		306.78		94.00	4.66E-02		-2.05E-03	2.21E-02
	TA-182	67.75		41.20	1.10E-01	1.10E-01	8.31E-03	5.29E-02
		1121.30		34.90	3.51E-01		3.45E-01	1.66E-01
		1189.05		16.23	5.27E-01		1.06E-01	2.41E-01
		1221.41		26.98	3.24E-01		-1.29E-01	1.48E-01
		1231.02		11.44	8.10E-01		2.60E-01	3.73E-01
	IR-192	308.46		29.68	1.92E-01	1.18E-01	2.83E-02	9.14E-02
		468.07		48.10	1.18E-01		1.57E-02	5.51E-02
	HG-203	279.19		77.30	8.57E-02	8.57E-02	-8.89E-03	4.09E-02
	BI-207	569.67		97.72	4.79E-02	4.79E-02	8.43E-03	2.22E-02
		1063.62		74.90	8.50E-02		-2.52E-02	3.87E-02
+	TL-208	583.14	*	30.22	2.95E-01	1.35E-01	6.02E-01	1.42E-01
		860.37		4.48	1.54E+00		1.15E+00	7.20E-01
		2614.66	*	35.85	1.35E-01		4.91E-01	5.59E-02
	BI-210M	262.00		45.00	9.47E-02	9.47E-02	-1.28E-02	4.52E-02
		300.00		23.00	2.10E-01		1.58E-01	1.00E-01
+	PB-210	46.50	*	4.25	2.48E+00	2.48E+00	1.37E+00	1.21E+00
	PB-211	404.84		2.90	1.37E+00	1.37E+00	-1.72E-01	6.41E-01
		831.96		2.90	2.16E+00		8.26E-01	1.00E+00
+	BI-212	727.17	*	11.80	5.66E-01	5.66E-01	3.19E-01	2.65E-01
		1620.62		2.75	1.54E+00		-1.03E+00	6.31E-01
+	PB-212	238.63	*	44.60	1.81E-01	1.81E-01	6.90E-01	8.85E-02
		300.09	*	3.41	1.31E+00		6.89E-01	6.21E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	2.13E-01	2.13E-01	8.77E-01	1.03E-01
		1120.29	*	15.10	7.16E-01		9.80E-01	3.39E-01
		1764.49	*	15.80	5.10E-01		7.13E-01	2.30E-01
		2204.22		4.98	1.72E+00		1.36E+00	7.76E-01
+	PB-214	295.21	*	19.19	3.71E-01	2.16E-01	6.82E-01	1.80E-01
		351.92	*	37.19	2.16E-01		8.63E-01	1.05E-01
	RN-219	401.80		6.50	6.64E-01	6.64E-01	2.24E-01	3.12E-01
	RA-223	323.87		3.88	1.09E+00	1.09E+00	1.61E-01	5.17E-01
	RA-224	240.98		3.95	2.12E+00	2.12E+00	5.20E+00	1.04E+00
	RA-225	40.00		31.00	1.38E+00	1.38E+00	-1.27E-01	6.66E-01
	RA-226	186.21		3.28	1.59E+00	1.59E+00	2.48E+00	7.72E-01
	TH-227	50.10		8.40	6.03E-01	5.18E-01	-1.21E-02	2.89E-01
		236.00		11.50	5.18E-01		-3.16E+00	2.51E-01
		256.20		6.30	6.78E-01		-7.09E-03	3.23E-01
+	AC-228	338.32	*	11.40	6.17E-01	3.23E-01	6.32E-01	2.98E-01
		911.07	*	27.70	3.23E-01		7.62E-01	1.53E-01
		969.11	*	16.60	4.87E-01		6.31E-01	2.28E-01
	TH-230	48.44		16.90	3.32E-01	3.32E-01	-3.24E-01	1.59E-01
		62.85		4.60	1.01E+00		1.25E+00	4.88E-01
		67.67		0.37	1.04E+01		7.90E-01	5.03E+00
	PA-231	283.67		1.60	2.70E+00	1.86E+00	2.13E-01	1.28E+00
		302.67		2.30	1.86E+00		-2.56E-01	8.80E-01
	TH-231	25.64		14.70	1.20E+01	5.46E-01	-8.31E-01	5.81E+00
		84.21		6.40	5.46E-01		3.49E-01	2.64E-01
	PA-233	311.98		38.60	2.33E-01	2.33E-01	1.97E-01	1.11E-01
	PA-234	131.20		20.40	1.91E-01	1.91E-01	1.37E-01	9.25E-02
		733.99		8.80	6.82E-01		3.65E-01	3.17E-01
		946.00		12.00	5.33E-01		-2.39E-02	2.45E-01
	PA-234M	1001.03		0.92	6.66E+00	6.66E+00	-2.24E+00	3.04E+00
	TH-234	63.29		3.80	1.21E+00	1.21E+00	1.50E+00	5.86E-01
	U-235	143.76		10.50	3.84E-01	3.84E-01	1.89E-01	1.85E-01
		163.35		4.70	8.30E-01		-1.74E-01	4.00E-01
		205.31		4.70	9.21E-01		5.71E-02	4.43E-01
	NP-237	86.50		12.60	3.89E-01	3.89E-01	-1.84E-01	1.90E-01
	NP-239	106.10		22.70	3.85E+02	3.85E+02	-1.18E+02	1.86E+02
		228.18		10.70	8.99E+02		-1.13E+01	4.30E+02
		277.60		14.10	7.23E+02		-3.42E+01	3.45E+02
	AM-241	59.54		35.90	1.18E-01	1.18E-01	-3.66E-02	5.68E-02
	AM-243	74.67		66.00	7.41E-02	7.41E-02	-1.81E-01	3.61E-02
	CM-243	209.75		3.29	1.41E+00	3.17E-01	4.55E-01	6.77E-01
		228.14		10.60	3.96E-01		-4.95E-03	1.89E-01
		277.60		14.00	3.17E-01		-1.50E-02	1.51E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

00492

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-4 064-065

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	118
9:	486	1016	972	393	498	1789	353	136
17:	141	102	105	104	97	117	114	111
25:	86	92	90	81	82	82	88	87
33:	101	82	94	77	93	84	96	97
41:	101	109	90	73	94	116	131	76
49:	55	64	67	70	68	81	64	61
57:	65	82	76	80	88	93	127	119
65:	70	90	81	108	81	87	92	100
73:	103	120	257	129	335	253	79	79
81:	73	87	74	102	100	68	144	165
89:	81	137	82	104	179	96	94	68
97:	51	60	58	57	50	51	72	70
105:	71	65	65	50	68	65	58	55
113:	53	61	61	49	64	44	53	67
121:	47	60	42	63	46	54	59	49
129:	65	60	57	51	55	44	47	53
137:	66	62	52	67	43	61	47	64
145:	59	48	51	48	45	55	55	66
153:	54	49	63	44	49	57	51	53
161:	38	44	46	44	52	44	38	49
169:	43	60	42	30	40	48	37	43
177:	48	45	47	47	51	61	49	52
185:	49	131	72	41	36	55	36	43
193:	42	45	36	44	35	50	40	38
201:	42	28	51	33	38	44	39	43
209:	58	51	38	38	42	27	35	44
217:	33	38	33	40	32	39	40	34
225:	35	38	29	38	27	33	32	47
233:	48	28	38	45	38	178	344	78
241:	65	108	48	38	35	33	39	37
249:	36	21	29	35	31	20	25	38
257:	31	32	28	28	24	29	33	27
265:	31	22	28	21	38	58	39	30
273:	29	33	30	26	34	34	26	21
281:	28	32	25	19	27	26	23	32
289:	21	22	26	17	33	32	154	92
297:	23	31	21	47	29	23	20	20
305:	23	27	23	25	21	27	23	22
313:	29	27	13	23	20	17	20	20
321:	22	23	21	24	17	18	26	32
329:	26	21	18	19	28	26	24	26
337:	28	66	58	24	22	18	25	20
345:	18	21	15	14	26	12	104	257
353:	80	21	14	23	23	18	15	21
361:	17	13	17	15	12	18	13	11

369:	26	11	22	13	15	24	14	16

Sample Title: FEEBRIS1D-4 064-065

Channel								
377:	22	20	14	11	17	21	21	17
385:	13	16	13	22	22	24	21	16
393:	20	18	14	17	15	17	12	17
401:	18	21	10	12	13	9	21	15
409:	25	24	19	16	14	17	9	19
417:	13	12	15	15	15	10	24	18
425:	11	18	19	16	14	11	15	8
433:	15	12	9	10	11	28	19	17
441:	10	11	14	7	17	11	10	10
449:	17	9	18	11	15	11	21	14
457:	15	13	10	10	6	13	37	19
465:	9	12	16	16	12	10	11	11
473:	16	7	17	16	10	17	12	8
481:	14	14	11	12	11	11	16	17
489:	11	16	13	13	16	22	14	11
497:	9	16	8	13	5	11	13	8
505:	6	18	10	16	25	46	69	39
513:	22	15	13	8	14	10	10	10
521:	6	5	11	17	13	7	13	9
529:	14	17	9	10	10	12	13	6
537:	10	9	11	9	11	10	6	19
545:	16	8	5	12	6	9	11	5
553:	9	11	11	15	7	13	7	10
561:	8	7	13	4	5	9	6	10
569:	13	16	9	13	10	9	11	12
577:	7	7	16	8	11	31	83	52
585:	12	9	5	11	12	7	12	10
593:	9	11	9	10	14	13	5	11
601:	6	14	14	10	14	11	15	39
609:	167	126	19	15	13	10	10	9
617:	9	12	9	10	4	8	8	17
625:	14	8	8	10	7	5	7	8
633:	8	12	8	5	9	12	10	5
641:	11	12	9	7	9	12	8	14
649:	9	13	7	8	5	8	10	5
657:	11	12	5	6	17	16	6	6
665:	10	12	9	7	11	6	15	4
673:	12	9	16	8	7	5	5	6
681:	11	6	14	13	7	9	7	10
689:	3	11	4	11	15	6	6	8
697:	7	14	8	12	6	4	9	7
705:	7	6	9	14	13	7	8	11
713:	6	11	4	7	10	6	7	11
721:	4	7	14	8	8	9	28	14
729:	10	2	9	4	13	7	8	10
737:	10	4	7	4	9	5	11	5
745:	11	9	12	4	7	4	8	11
753:	10	7	12	3	3	9	12	8
761:	6	8	5	10	6	12	8	16
769:	16	10	10	10	5	9	7	7
777:	12	8	8	7	1	7	6	15
785:	9	14	6	8	7	4	3	6
793:	10	10	17	15	4	9	2	3

801:	1	6	11	8	9	10	4	6

Sample Title: FEEBRIS1D-4 064-065

Channel								
809:	4	5	3	7	6	1	7	5
817:	5	4	11	3	6	5	14	6
825:	9	10	5	4	6	9	14	5
833:	8	5	7	8	5	6	16	10
841:	8	5	3	4	6	15	8	8
849:	4	7	7	11	7	8	5	4
857:	7	8	5	14	16	8	5	5
865:	5	3	11	3	5	7	8	3
873:	8	3	8	5	11	3	4	7
881:	9	6	7	8	9	2	5	2
889:	10	8	5	11	4	2	6	4
897:	5	6	3	6	7	4	4	10
905:	6	8	9	9	9	23	74	29
913:	10	9	7	2	4	6	6	5
921:	4	4	6	10	7	4	3	7
929:	5	6	3	4	9	12	7	8
937:	3	3	6	3	5	4	4	7
945:	4	7	11	6	6	10	7	10
953:	10	9	8	5	6	3	9	4
961:	4	8	8	15	15	8	15	21
969:	39	8	6	5	3	7	2	4
977:	5	10	10	6	15	3	3	3
985:	4	5	5	11	6	3	1	9
993:	6	4	5	8	5	4	3	5
1001:	10	5	6	4	10	4	6	5
1009:	7	4	5	7	5	2	9	2
1017:	4	4	1	4	6	7	6	4
1025:	3	11	6	2	2	6	8	6
1033:	4	7	4	7	6	4	7	7
1041:	7	6	6	4	4	6	5	7
1049:	10	6	6	3	4	1	3	6
1057:	8	6	10	3	5	4	4	10
1065:	4	6	5	5	7	3	0	4
1073:	4	8	8	6	5	6	10	6
1081:	8	3	3	2	2	6	3	4
1089:	9	6	8	5	2	8	6	7
1097:	2	14	5	8	6	4	4	6
1105:	5	6	1	8	6	6	9	4
1113:	5	3	7	9	9	13	19	30
1121:	17	9	3	5	7	5	6	8
1129:	7	6	5	6	8	4	2	11
1137:	5	6	4	12	5	5	2	8
1145:	9	3	4	4	7	8	2	5
1153:	6	9	11	8	6	9	8	9
1161:	6	6	3	4	11	6	5	5
1169:	9	7	4	6	6	4	8	4
1177:	8	7	3	10	9	11	2	4
1185:	5	7	3	11	2	5	7	5
1193:	4	6	7	2	8	1	6	7
1201:	5	8	7	7	14	9	3	8
1209:	3	2	5	7	4	8	7	13
1217:	9	4	4	12	4	6	5	5
1225:	3	7	4	8	4	10	7	9

1233:	5	2	5	4	18	17	18	4

Sample Title: FEEBRIS1D-4 064-065

Channel								
1241:	8	4	6	7	7	7	5	11
1249:	1	5	9	3	6	5	4	6
1257:	4	7	2	5	3	4	1	4
1265:	7	7	5	3	5	1	1	3
1273:	6	4	7	8	4	5	5	5
1281:	9	4	3	6	2	6	4	7
1289:	5	5	8	4	7	7	10	5
1297:	1	5	2	2	2	5	4	3
1305:	1	3	4	1	4	1	6	2
1313:	7	3	4	3	4	3	4	3
1321:	5	1	6	4	2	3	2	5
1329:	2	1	2	3	4	4	8	4
1337:	2	4	4	2	4	3	4	1
1345:	2	3	6	3	2	4	2	6
1353:	3	3	1	1	4	5	3	2
1361:	2	5	1	3	5	5	2	2
1369:	4	3	4	1	0	2	4	3
1377:	10	11	5	2	2	2	2	2
1385:	1	4	2	2	2	4	4	2
1393:	1	2	6	4	1	1	3	2
1401:	6	2	2	2	1	2	7	4
1409:	1	2	0	2	2	5	5	1
1417:	5	3	2	3	3	2	0	1
1425:	2	2	5	0	6	1	1	1
1433:	3	0	1	2	2	4	0	4
1441:	2	3	2	1	1	6	3	3
1449:	0	3	2	5	1	4	4	5
1457:	3	5	67	211	237	94	6	9
1465:	4	2	1	2	2	2	2	3
1473:	0	1	1	3	3	3	2	0
1481:	2	1	0	1	4	1	0	1
1489:	0	4	3	0	1	3	2	2
1497:	3	2	2	3	0	1	2	0
1505:	1	1	4	5	3	5	2	3
1513:	1	0	1	1	1	1	2	0
1521:	1	2	2	2	2	4	0	0
1529:	2	1	3	4	1	1	1	3
1537:	2	1	2	1	0	2	3	0
1545:	1	1	1	0	0	2	1	0
1553:	0	1	1	1	4	2	1	1
1561:	1	2	2	2	1	3	1	0
1569:	0	2	4	1	2	1	2	0
1577:	1	1	2	2	2	2	0	0
1585:	0	0	4	2	3	1	0	3
1593:	3	0	0	0	3	3	1	0
1601:	0	1	1	1	0	1	0	1
1609:	2	2	2	0	0	0	0	1
1617:	1	0	0	0	3	1	1	0
1625:	4	3	0	2	0	2	3	1
1633:	2	3	3	0	3	1	1	2
1641:	1	0	4	2	0	2	0	3
1649:	1	2	1	0	2	1	3	1
1657:	1	1	1	0	0	2	0	2

1665:	3	1	0	2	0	1	2	3

Sample Title: FEEBRIS1D-4 064-065

Channel								
1673:	0	0	3	2	1	0	0	0
1681:	0	2	1	2	0	1	0	2
1689:	1	1	4	0	2	1	1	0
1697:	1	1	0	0	3	0	0	2
1705:	1	2	2	1	1	1	1	0
1713:	1	0	0	0	1	2	1	0
1721:	0	2	3	0	1	1	1	1
1729:	6	1	2	1	0	1	0	4
1737:	1	1	2	4	0	4	1	2
1745:	0	0	0	1	0	2	1	0
1753:	0	1	2	1	0	1	2	1
1761:	0	1	9	14	21	4	1	2
1769:	1	1	1	1	0	0	1	0
1777:	0	1	0	0	2	0	0	0
1785:	2	0	0	1	0	1	0	0
1793:	2	1	0	1	1	0	0	1
1801:	1	3	3	1	2	0	0	1
1809:	1	1	0	1	0	0	1	2
1817:	1	1	1	0	2	0	3	0
1825:	0	0	0	1	3	0	2	2
1833:	3	1	1	0	3	0	0	1
1841:	0	2	0	0	1	3	3	5
1849:	0	1	1	1	1	0	1	0
1857:	0	0	0	0	3	1	1	0
1865:	0	1	0	1	0	1	1	1
1873:	2	1	1	0	0	1	1	1
1881:	1	1	1	0	0	3	1	1
1889:	0	1	2	1	0	2	0	0
1897:	2	1	1	1	0	1	0	1
1905:	0	0	1	0	0	2	1	2
1913:	0	0	1	2	0	0	0	1
1921:	2	1	2	1	2	0	1	1
1929:	1	1	0	0	2	2	0	0
1937:	2	2	0	1	1	1	0	0
1945:	0	0	1	2	1	2	1	1
1953:	1	0	1	1	2	1	2	0
1961:	0	1	1	3	0	1	1	2
1969:	0	0	0	0	0	1	2	0
1977:	0	0	0	0	2	1	1	0
1985:	1	1	1	1	1	1	0	1
1993:	3	0	1	0	1	0	1	1
2001:	1	1	0	0	0	0	0	0
2009:	0	1	1	0	0	0	1	0
2017:	1	1	0	1	0	0	1	0
2025:	0	1	0	0	1	1	0	0
2033:	0	1	2	2	1	1	0	0
2041:	1	0	2	0	0	0	0	1
2049:	1	3	1	1	0	0	1	0
2057:	1	3	0	1	0	1	0	0
2065:	0	2	3	1	0	2	0	0
2073:	2	0	1	0	0	0	0	0
2081:	0	0	0	1	1	1	0	0
2089:	1	0	3	0	1	0	1	0

2097:	2	0	0	0	1	1	3	1

Sample Title: FEEBRIS1D-4 064-065

Channel								
2105:	1	2	1	3	0	0	1	1
2113:	1	1	0	1	0	1	0	2
2121:	0	1	0	1	1	1	1	2
2129:	1	2	0	1	0	1	1	0
2137:	0	1	0	1	1	0	3	1
2145:	0	0	0	1	2	1	1	0
2153:	3	3	2	4	1	0	0	2
2161:	0	0	0	2	1	0	0	1
2169:	0	1	2	0	2	2	2	1
2177:	0	0	1	0	2	0	2	0
2185:	1	0	1	1	1	2	2	0
2193:	1	1	2	1	0	1	0	0
2201:	2	5	6	4	6	2	1	2
2209:	1	1	1	1	1	1	0	0
2217:	1	1	0	1	1	0	1	0
2225:	0	2	0	2	1	0	0	1
2233:	0	1	1	1	2	1	0	0
2241:	1	0	1	2	0	1	0	1
2249:	0	1	0	0	0	1	1	0
2257:	0	1	0	0	1	1	1	0
2265:	0	2	1	2	0	0	0	2
2273:	0	0	1	1	1	0	1	0
2281:	1	0	0	1	1	1	0	0
2289:	0	0	0	2	1	0	0	1
2297:	1	2	0	2	1	1	1	1
2305:	1	0	0	2	0	0	1	1
2313:	0	0	0	0	2	0	0	1
2321:	0	2	0	0	0	2	0	0
2329:	3	0	1	0	0	1	1	1
2337:	1	1	1	1	0	0	1	2
2345:	0	1	1	0	0	1	1	1
2353:	0	4	1	0	0	0	2	0
2361:	1	1	1	1	3	0	0	1
2369:	1	0	0	0	0	1	1	0
2377:	1	1	1	0	1	0	0	0
2385:	0	1	0	1	0	0	0	2
2393:	1	0	1	0	1	2	1	1
2401:	1	0	1	0	1	3	1	2
2409:	0	0	1	1	1	0	3	1
2417:	0	2	0	1	0	2	0	0
2425:	0	0	1	1	1	2	2	0
2433:	0	0	1	1	0	0	2	0
2441:	2	0	1	0	1	2	2	0
2449:	0	0	2	2	0	1	0	1
2457:	0	0	1	0	0	0	1	0
2465:	0	0	0	0	1	0	2	1
2473:	0	0	1	1	0	1	0	0
2481:	0	0	0	0	1	1	0	0
2489:	0	0	2	0	0	2	0	0
2497:	1	1	1	0	1	2	0	1
2505:	0	0	1	0	1	0	0	0
2513:	1	0	0	0	0	0	0	0
2521:	0	0	0	0	0	0	0	0

2529:	1	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-4 064-065

Channel								
2537:	0	0	1	0	0	1	0	1
2545:	0	0	0	1	0	1	1	0
2553:	0	0	0	0	1	0	1	0
2561:	0	0	0	0	0	0	0	0
2569:	0	0	0	0	0	0	0	2
2577:	0	0	0	0	1	0	0	1
2585:	0	1	0	0	0	1	0	0
2593:	0	0	0	1	0	0	0	2
2601:	1	0	0	1	0	1	0	2
2609:	1	0	0	7	11	22	17	10
2617:	1	0	0	2	1	0	0	0
2625:	0	1	0	0	1	0	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	1	0	0	1	0
2649:	0	0	0	0	1	0	1	0
2657:	1	1	0	0	0	0	0	0
2665:	1	1	0	1	1	0	0	0
2673:	0	0	0	0	0	1	0	0
2681:	1	0	0	0	0	0	0	0
2689:	0	1	0	0	1	0	0	0
2697:	0	0	0	0	0	0	0	0
2705:	0	0	1	1	1	0	1	0
2713:	0	1	0	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	2	0	0	0	0	0	1	0
2737:	1	0	0	0	0	0	0	0
2745:	0	1	0	0	0	0	0	2
2753:	0	2	0	0	0	0	0	1
2761:	0	0	0	0	0	0	1	0
2769:	0	0	0	1	0	0	0	0
2777:	0	0	0	0	0	0	1	1
2785:	0	0	0	0	1	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	1	0	1	0	1	0	1	1
2809:	1	0	0	0	0	0	1	0
2817:	0	0	0	0	0	0	1	2
2825:	1	1	0	0	0	0	0	1
2833:	0	1	0	0	0	0	0	1
2841:	0	0	0	0	1	0	0	0
2849:	0	1	0	0	1	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	1	1	0	1	1	0	1	0
2873:	1	0	0	0	0	1	0	0
2881:	1	0	0	0	0	0	1	0
2889:	0	0	0	0	0	0	1	0
2897:	0	0	0	0	1	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	1	0	0	1	0	0	0	0
2921:	1	1	0	0	0	0	0	0
2929:	0	0	0	1	0	0	1	0
2937:	0	0	0	0	0	0	0	0
2945:	1	0	0	1	0	0	0	1
2953:	1	1	0	0	1	0	1	0

2961:	0	0	0	0	0	0	2	0

Sample Title: FEEBRIS1D-4 064-065

Channel								
2969:	0	0	0	0	1	1	0	0
2977:	0	0	0	1	0	0	0	0
2985:	1	1	0	1	0	0	0	1
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	1	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	1	0	1	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	1	0	0	0	0	0
3049:	0	0	1	0	0	0	1	0
3057:	0	0	0	0	1	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	2	0	0	0	0	0
3081:	0	1	0	0	0	0	0	1
3089:	1	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	1	0	0	0
3113:	0	0	0	0	0	0	1	0
3121:	0	0	0	0	0	1	1	0
3129:	0	0	1	0	1	0	1	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	1	0	0	1
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	1	1	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	0	1	0	1	0
3201:	0	0	0	0	0	0	1	0
3209:	0	0	0	0	0	1	0	0
3217:	1	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	1	0	0	0	0	0	0	0
3241:	0	0	0	1	1	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	1	1	0	0	0	1
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	1	0	0	0	1
3289:	0	0	0	0	0	0	1	0
3297:	0	0	0	0	0	0	0	1
3305:	0	0	1	1	0	1	0	0
3313:	0	0	0	1	1	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	1	0	0
3337:	0	0	0	0	0	1	0	0
3345:	1	0	0	1	0	0	0	0
3353:	0	0	0	0	1	0	0	0
3361:	1	0	0	0	0	0	0	0
3369:	0	1	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	1	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-4 064-065

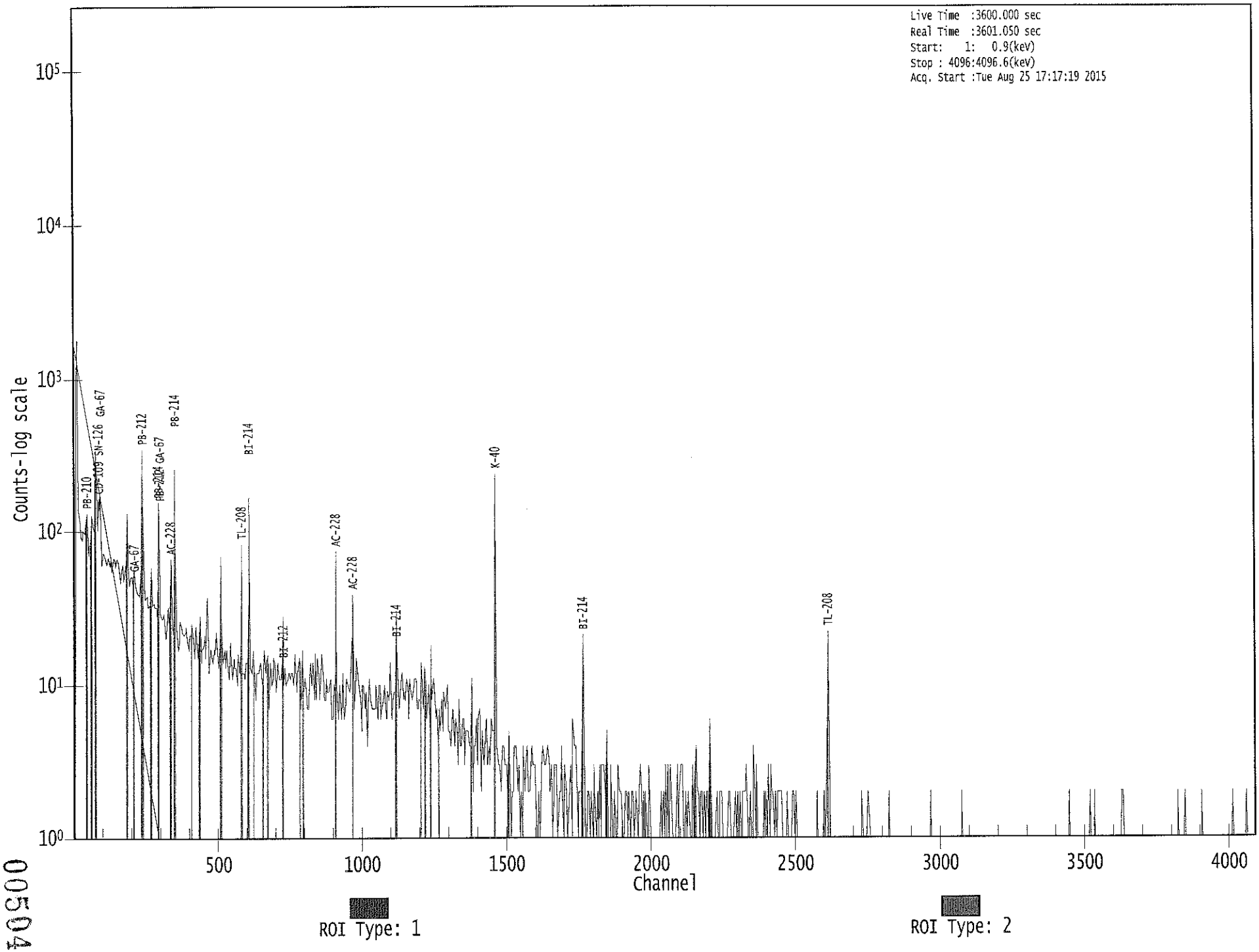
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	1	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	2
3449:	0	0	0	0	1	0	0	0
3457:	0	0	0	0	0	0	0	1
3465:	0	1	0	0	0	0	0	0
3473:	0	0	0	0	1	0	1	0
3481:	0	1	0	1	0	0	0	0
3489:	0	0	0	1	0	0	1	0
3497:	0	0	0	0	0	0	0	0
3505:	1	0	0	0	0	0	1	0
3513:	0	0	0	1	1	0	0	2
3521:	0	1	0	0	1	1	0	0
3529:	0	0	0	0	0	0	2	0
3537:	1	0	0	0	1	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	1	0
3585:	1	0	0	0	0	0	0	0
3593:	0	0	0	1	0	0	0	0
3601:	0	0	0	0	1	1	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	1	0	0
3625:	0	1	0	0	2	0	0	0
3633:	0	2	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	1	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	1	0	0	0	0
3689:	0	0	0	0	0	1	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	1	0	0	1
3713:	0	1	1	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	1	0	0	0	0	0
3737:	0	0	0	0	1	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	1	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	1	1	1
3785:	0	0	0	0	0	0	0	1
3793:	0	0	0	0	0	1	0	0
3801:	0	0	0	0	0	0	0	1
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	2	0	0

3825:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-4 064-065

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	1	0	0	0	2
3849:	0	0	0	0	0	0	0	1
3857:	1	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	1	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	1	1	0
3897:	0	0	0	0	0	0	0	0
3905:	2	0	0	0	0	0	0	0
3913:	0	0	1	0	0	1	0	0
3921:	1	0	0	0	1	0	0	0
3929:	0	1	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	1	0	0	0
3953:	0	0	0	1	0	0	0	0
3961:	0	0	0	0	0	1	0	0
3969:	0	0	0	0	0	0	1	0
3977:	0	0	0	1	0	0	0	0
3985:	0	0	0	0	1	0	1	0
3993:	0	0	0	0	1	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	1	1	0	0	2	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	0	0	1	1	1	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	1	0	0	0	2	0	0
4065:	0	0	0	0	0	0	1	0
4073:	0	0	0	0	0	0	0	0
4081:	0	1	1	0	1	0	0	0
4089:	0	1	0	0	0	0	0	0

0000026416.CNF



00504

Apex-Gamma

Analysis Report for 1508002-08
FEEBRIS1D-20 080-081

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-08
Sample Description	: FEEBRIS1D-20 080-081
Sample Type	: SOIL
Sample Size	: 6.785E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:39:37AM
Acquisition Started	: 8/25/2015 5:25:21PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26418

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 8/26/15

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:25:25PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	42.91	43.27	0.0000	0.00
2	46.62	46.97	0.0000	0.00
3	76.74	77.08	0.0000	0.00
4	88.11	88.45	0.0000	0.00
5	186.09	186.40	0.0000	0.00
6	238.56	238.85	0.0000	0.00
7	241.87	242.15	0.0000	0.00
8	295.38	295.65	0.0000	0.00
9	338.29	338.55	0.0000	0.00
10	352.01	352.26	0.0000	0.00
11	583.62	583.79	0.0000	0.00
12	603.23	603.39	0.0000	0.00
13	609.34	609.50	0.0000	0.00
14	767.78	767.89	0.0000	0.00
15	791.20	791.29	0.0000	0.00
16	913.03	913.09	0.0000	0.00
17	1120.25	1120.23	0.0000	0.00
18	1213.77	1213.72	0.0000	0.00
19	1238.19	1238.13	0.0000	0.00
20	1376.11	1376.00	0.0000	0.00
21	1380.33	1380.22	0.0000	0.00
22	1401.94	1401.82	0.0000	0.00
23	1408.34	1408.22	0.0000	0.00
24	1460.79	1460.65	0.0000	0.00
25	1501.14	1500.98	0.0000	0.00
26	1509.46	1509.30	0.0000	0.00
27	1581.27	1581.08	0.0000	0.00
28	1594.75	1594.56	0.0000	0.00
29	1729.74	1729.50	0.0000	0.00
30	1764.43	1764.17	0.0000	0.00
31	1846.93	1846.64	0.0000	0.00
32	1957.33	1957.00	0.0000	0.00
33	2006.40	2006.05	0.0000	0.00
34	2203.53	2203.11	0.0000	0.00
35	2614.20	2613.62	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	42.91	42 -	51	43.27	2.57E+01	24.38	1.48E+02	1.53
m	2	46.62	42 -	51	46.97	9.99E+01	40.97	2.69E+02	1.54
	3	76.74	74 -	83	77.08	3.03E+02	91.75	9.78E+02	3.62
m	4	88.11	83 -	98	88.45	9.75E+01	47.92	3.88E+02	1.79
	5	186.09	181 -	190	186.40	1.76E+02	64.01	4.84E+02	1.97
M	6	238.56	235 -	246	238.85	1.28E+02	36.00	1.85E+02	1.68
m	7	241.87	235 -	246	242.15	1.00E+02	36.16	1.69E+02	1.68
	8	295.38	292 -	299	295.65	1.70E+02	48.99	2.84E+02	1.83
	9	338.29	333 -	344	338.55	7.17E+01	44.36	2.11E+02	3.73
	10	352.01	348 -	356	352.26	3.71E+02	55.07	2.37E+02	1.63
	11	583.62	580 -	588	583.79	2.55E+01	26.78	9.50E+01	1.91
M	12	603.23	599 -	620	603.39	1.74E+01	21.18	9.22E+01	2.39
m	13	609.34	599 -	620	609.50	2.81E+02	36.15	4.64E+01	1.83
	14	767.78	763 -	772	767.89	3.71E+01	26.53	7.77E+01	2.38
	15	791.20	783 -	802	791.29	3.26E+01	36.50	1.01E+02	10.01
	16	913.03	909 -	917	913.09	2.02E+01	19.04	3.96E+01	5.66
	17	1120.25	1114 -	1125	1120.23	5.77E+01	29.93	8.07E+01	2.00
	18	1213.77	1203 -	1221	1213.72	2.73E+01	23.26	3.55E+01	11.52
	19	1238.19	1232 -	1244	1238.13	3.17E+01	24.98	5.86E+01	2.34
M	20	1376.11	1375 -	1383	1376.00	7.11E+00	4.80	3.75E+00	2.16
m	21	1380.33	1375 -	1383	1380.22	7.80E+00	10.62	8.50E+00	2.38
M	22	1401.94	1395 -	1415	1401.82	1.64E+01	10.62	1.21E+01	2.39
m	23	1408.34	1395 -	1415	1408.22	1.45E+01	10.81	9.37E+00	2.39
	24	1460.79	1457 -	1463	1460.65	8.82E+01	22.94	3.17E+01	2.37
	25	1501.14	1498 -	1503	1500.98	9.50E+00	7.28	3.00E+00	1.64
	26	1509.46	1505 -	1513	1509.30	1.37E+01	13.00	1.66E+01	3.04
	27	1581.27	1577 -	1584	1581.08	1.11E+01	8.25	3.85E+00	1.74
	28	1594.75	1590 -	1598	1594.56	7.50E+00	9.41	9.00E+00	4.13
	29	1729.74	1725 -	1732	1729.50	1.80E+01	10.95	8.00E+00	2.63
	30	1764.43	1760 -	1767	1764.17	5.80E+01	15.23	0.00E+00	1.73
	31	1846.93	1842 -	1850	1846.64	1.40E+01	7.48	0.00E+00	6.60
	32	1957.33	1953 -	1959	1957.00	5.00E+00	4.47	0.00E+00	1.50
	33	2006.40	2003 -	2008	2006.05	5.50E+00	6.08	3.00E+00	2.38
	34	2203.53	2198 -	2207	2203.11	1.90E+01	8.72	0.00E+00	2.97
	35	2614.20	2610 -	2616	2613.62	1.92E+01	9.81	3.52E+00	1.76

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	42.91	42 -	51	2.57E+01	24.38	1.48E+02	2.00E+01
m	2	46.62	42 -	51	9.99E+01	40.97	2.69E+02	2.70E+01
	3	76.74	74 -	83	3.03E+02	91.75	9.78E+02	6.98E+01
m	4	88.11	83 -	98	9.75E+01	47.92	3.88E+02	3.24E+01
	5	186.09	181 -	190	1.76E+02	64.01	4.84E+02	4.79E+01
M	6	238.56	235 -	246	1.28E+02	36.00	1.85E+02	2.24E+01
m	7	241.87	235 -	246	1.00E+02	36.16	1.69E+02	2.14E+01
	8	295.38	292 -	299	1.70E+02	48.99	2.84E+02	3.41E+01
	9	338.29	333 -	344	7.17E+01	44.36	2.11E+02	3.37E+01
	10	352.01	348 -	356	3.71E+02	55.07	2.37E+02	3.23E+01
	11	583.62	580 -	588	2.55E+01	26.78	9.50E+01	2.04E+01
M	12	603.23	599 -	620	1.74E+01	21.18	9.22E+01	1.58E+01
m	13	609.34	599 -	620	2.81E+02	36.15	4.64E+01	1.12E+01
	14	767.78	763 -	772	3.71E+01	26.53	7.77E+01	1.94E+01
	15	791.20	783 -	802	3.26E+01	36.50	1.01E+02	2.85E+01
	16	913.03	909 -	917	2.02E+01	19.04	3.96E+01	1.38E+01
	17	1120.25	1114 -	1125	5.77E+01	29.93	8.07E+01	2.12E+01
	18	1213.77	1203 -	1221	2.73E+01	23.26	3.55E+01	1.71E+01
	19	1238.19	1232 -	1244	3.17E+01	24.98	5.86E+01	1.83E+01
M	20	1376.11	1375 -	1383	7.11E+00	4.80	3.75E+00	3.18E+00
m	21	1380.33	1375 -	1383	7.80E+00	10.62	8.50E+00	4.79E+00
M	22	1401.94	1395 -	1415	1.64E+01	10.62	1.21E+01	5.73E+00
m	23	1408.34	1395 -	1415	1.45E+01	10.81	9.37E+00	5.03E+00
	24	1460.79	1457 -	1463	8.82E+01	22.94	3.17E+01	1.08E+01
	25	1501.14	1498 -	1503	9.50E+00	7.28	3.00E+00	3.18E+00
	26	1509.46	1505 -	1513	1.37E+01	13.00	1.66E+01	8.79E+00
	27	1581.27	1577 -	1584	1.11E+01	8.25	3.85E+00	4.00E+00
	28	1594.75	1590 -	1598	7.50E+00	9.41	9.00E+00	6.29E+00
	29	1729.74	1725 -	1732	1.80E+01	10.95	8.00E+00	5.70E+00
	30	1764.43	1760 -	1767	5.80E+01	15.23	0.00E+00	0.00E+00
	31	1846.93	1842 -	1850	1.40E+01	7.48	0.00E+00	0.00E+00

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1957.33	1953 -	1959	5.00E+00	4.47	0.00E+00	0.00E+00
33	2006.40	2003 -	2008	5.50E+00	6.08	3.00E+00	3.18E+00
34	2203.53	2198 -	2207	1.90E+01	8.72	0.00E+00	0.00E+00
35	2614.20	2610 -	2616	1.92E+01	9.81	3.52E+00	3.61E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	42.91	42 -	51	43.27	2.57E+01	24.38	1.48E+02	PM-145
m	2	46.62	42 -	51	46.97	9.99E+01	40.97	2.69E+02	PB-210
	3	76.74	74 -	83	77.08	3.03E+02	91.75	9.78E+02	.....
m	4	88.11	83 -	98	88.45	9.75E+01	47.92	3.88E+02	CD-109
									LU-176
									SN-126
	5	186.09	181 -	190	186.40	1.76E+02	64.01	4.84E+02	RA-226
M	6	238.56	235 -	246	238.85	1.28E+02	36.00	1.85E+02	PB-212
m	7	241.87	235 -	246	242.15	1.00E+02	36.16	1.69E+02	RA-224
	8	295.38	292 -	299	295.65	1.70E+02	48.99	2.84E+02	PB-214
	9	338.29	333 -	344	338.55	7.17E+01	44.36	2.11E+02	AC-228
	10	352.01	348 -	356	352.26	3.71E+02	55.07	2.37E+02	PB-214
	11	583.62	580 -	588	583.79	2.55E+01	26.78	9.50E+01	TL-208
M	12	603.23	599 -	620	603.39	1.74E+01	21.18	9.22E+01	SB-124
m	13	609.34	599 -	620	609.50	2.81E+02	36.15	4.64E+01	BI-214
	14	767.78	763 -	772	767.89	3.71E+01	26.53	7.77E+01	.....
	15	791.20	783 -	802	791.29	3.26E+01	36.50	1.01E+02	.....
	16	913.03	909 -	917	913.09	2.02E+01	19.04	3.96E+01	LU-172
	17	1120.25	1114 -	1125	1120.23	5.77E+01	29.93	8.07E+01	BI-214
									SC-46
	18	1213.77	1203 -	1221	1213.72	2.73E+01	23.26	3.55E+01	.....
	19	1238.19	1232 -	1244	1238.13	3.17E+01	24.98	5.86E+01	CO-56

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	20	1376.11	1375 -	1383	1376.00	7.11E+00	4.80	3.75E+00	.....
m	21	1380.33	1375 -	1383	1380.22	7.80E+00	10.62	8.50E+00	.....
M	22	1401.94	1395 -	1415	1401.82	1.64E+01	10.62	1.21E+01	.....
m	23	1408.34	1395 -	1415	1408.22	1.45E+01	10.81	9.37E+00	EU-152
	24	1460.79	1457 -	1463	1460.65	8.82E+01	22.94	3.17E+01	K-40
	25	1501.14	1498 -	1503	1500.98	9.50E+00	7.28	3.00E+00	.....
	26	1509.46	1505 -	1513	1509.30	1.37E+01	13.00	1.66E+01	.....
	27	1581.27	1577 -	1584	1581.08	1.11E+01	8.25	3.85E+00	.....
	28	1594.75	1590 -	1598	1594.56	7.50E+00	9.41	9.00E+00	.....
	29	1729.74	1725 -	1732	1729.50	1.80E+01	10.95	8.00E+00	.....
	30	1764.43	1760 -	1767	1764.17	5.80E+01	15.23	0.00E+00	BI-214
	31	1846.93	1842 -	1850	1846.64	1.40E+01	7.48	0.00E+00	.....
	32	1957.33	1953 -	1959	1957.00	5.00E+00	4.47	0.00E+00	.....
	33	2006.40	2003 -	2008	2006.05	5.50E+00	6.08	3.00E+00	.....
	34	2203.53	2198 -	2207	2203.11	1.90E+01	8.72	0.00E+00	BI-214
	35	2614.20	2610 -	2616	2613.62	1.92E+01	9.81	3.52E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	42.91	2.57E+01	24.38	1.43E-02	1.78E-03
m	2	46.62	9.99E+01	40.97	1.69E-02	1.78E-03
	3	76.74	3.03E+02	91.75	2.77E-02	2.36E-03
m	4	88.11	9.75E+01	47.92	2.85E-02	2.74E-03
	5	186.09	1.76E+02	64.01	2.24E-02	2.03E-03
M	6	238.56	1.28E+02	36.00	1.92E-02	1.64E-03
m	7	241.87	1.00E+02	36.16	1.91E-02	1.61E-03
	8	295.38	1.70E+02	48.99	1.67E-02	1.31E-03
	9	338.29	7.17E+01	44.36	1.52E-02	1.22E-03
	10	352.01	3.71E+02	55.07	1.48E-02	1.19E-03
	11	583.62	2.55E+01	26.78	1.02E-02	9.15E-04
M	12	603.23	1.74E+01	21.18	9.90E-03	8.95E-04
m	13	609.34	2.81E+02	36.15	9.83E-03	8.88E-04
	14	767.78	3.71E+01	26.53	8.19E-03	7.39E-04

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	15	791.20	3.26E+01	36.50	8.00E-03	7.18E-04
	16	913.03	2.02E+01	19.04	7.14E-03	6.15E-04
	17	1120.25	5.77E+01	29.93	6.07E-03	5.07E-04
	18	1213.77	2.73E+01	23.26	5.70E-03	4.72E-04
	19	1238.19	3.17E+01	24.98	5.61E-03	4.68E-04
M	20	1376.11	7.11E+00	4.80	5.19E-03	4.40E-04
m	21	1380.33	7.80E+00	10.62	5.18E-03	4.39E-04
M	22	1401.94	1.64E+01	10.62	5.12E-03	4.34E-04
m	23	1408.34	1.45E+01	10.81	5.10E-03	4.32E-04
	24	1460.79	8.82E+01	22.94	4.97E-03	4.19E-04
	25	1501.14	9.50E+00	7.28	4.88E-03	4.09E-04
	26	1509.46	1.37E+01	13.00	4.86E-03	4.07E-04
	27	1581.27	1.11E+01	8.25	4.71E-03	3.89E-04
	28	1594.75	7.50E+00	9.41	4.68E-03	3.86E-04
	29	1729.74	1.80E+01	10.95	4.45E-03	3.52E-04
	30	1764.43	5.80E+01	15.23	4.40E-03	3.44E-04
	31	1846.93	1.40E+01	7.48	4.28E-03	3.26E-04
	32	1957.33	5.00E+00	4.47	4.16E-03	3.26E-04
	33	2006.40	5.50E+00	6.08	4.11E-03	3.26E-04
	34	2203.53	1.90E+01	8.72	3.95E-03	3.26E-04
	35	2614.20	1.92E+01	9.81	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	42.91	2.57E+01	24.38			2.57E+01	2.44E+01
m	2	46.62	9.99E+01	40.97	4.02E+01	8.43E+00	5.97E+01	4.18E+01
	3	76.74	3.03E+02	91.75	1.60E+01	8.83E+00	2.87E+02	9.22E+01
m	4	88.11	9.75E+01	47.92			9.75E+01	4.79E+01
	5	186.09	1.76E+02	64.01	6.47E+01	7.53E+00	1.11E+02	6.44E+01
M	6	238.56	1.28E+02	36.00	1.73E+01	6.30E+00	1.11E+02	3.65E+01
m	7	241.87	1.00E+02	36.16			1.00E+02	3.62E+01
	8	295.38	1.70E+02	48.99	0.00E+00	0.00E+00	1.70E+02	4.90E+01
	9	338.29	7.17E+01	44.36			7.17E+01	4.44E+01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	10	352.01	3.71E+02	55.07	9.78E+00	4.40E+00	3.61E+02	5.53E+01
	11	583.62	2.55E+01	26.78	4.53E+00	3.34E+00	2.10E+01	2.70E+01
M	12	603.23	1.74E+01	21.18			1.74E+01	2.12E+01
m	13	609.34	2.81E+02	36.15	8.81E+00	3.15E+00	2.73E+02	3.63E+01
	14	767.78	3.71E+01	26.53			3.71E+01	2.65E+01
	15	791.20	3.26E+01	36.50			3.26E+01	3.65E+01
	16	913.03	2.02E+01	19.04			2.02E+01	1.90E+01
	17	1120.25	5.77E+01	29.93			5.77E+01	2.99E+01
	18	1213.77	2.73E+01	23.26			2.73E+01	2.33E+01
	19	1238.19	3.17E+01	24.98			3.17E+01	2.50E+01
M	20	1376.11	7.11E+00	4.80			7.11E+00	4.80E+00
m	21	1380.33	7.80E+00	10.62			7.80E+00	1.06E+01
M	22	1401.94	1.64E+01	10.62			1.64E+01	1.06E+01
m	23	1408.34	1.45E+01	10.81			1.45E+01	1.08E+01
	24	1460.79	8.82E+01	22.94	5.85E+00	2.19E+00	8.23E+01	2.30E+01
	25	1501.14	9.50E+00	7.28			9.50E+00	7.28E+00
	26	1509.46	1.37E+01	13.00			1.37E+01	1.30E+01
	27	1581.27	1.11E+01	8.25			1.11E+01	8.25E+00
	28	1594.75	7.50E+00	9.41			7.50E+00	9.41E+00
	29	1729.74	1.80E+01	10.95			1.80E+01	1.10E+01
	30	1764.43	5.80E+01	15.23			5.80E+01	1.52E+01
	31	1846.93	1.40E+01	7.48			1.40E+01	7.48E+00
	32	1957.33	5.00E+00	4.47			5.00E+00	4.47E+00
	33	2006.40	5.50E+00	6.08			5.50E+00	6.08E+00
	34	2203.53	1.90E+01	8.72	1.36E-01	1.12E+00	1.89E+01	8.79E+00
	35	2614.20	1.92E+01	9.81	5.15E+00	1.50E+00	1.41E+01	9.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	42.91	2.57E+01	24.38			2.57E+01	2.44E+01
m	2	46.62	9.99E+01	40.97	4.02E+01	8.43E+00	5.97E+01	4.18E+01

00512

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	3	76.74	3.03E+02	91.75	1.60E+01	8.83E+00	2.87E+02	9.22E+01
m	4	88.11	9.75E+01	47.92			9.75E+01	4.79E+01
	5	186.09	1.76E+02	64.01	6.47E+01	7.53E+00	1.11E+02	6.44E+01
M	6	238.56	1.28E+02	36.00	1.73E+01	6.30E+00	1.11E+02	3.65E+01
m	7	241.87	1.00E+02	36.16			1.00E+02	3.62E+01
	8	295.38	1.70E+02	48.99	0.00E+00	0.00E+00	1.70E+02	4.90E+01
	9	338.29	7.17E+01	44.36			7.17E+01	4.44E+01
	10	352.01	3.71E+02	55.07	9.78E+00	4.40E+00	3.61E+02	5.53E+01
	11	583.62	2.55E+01	26.78	4.53E+00	3.34E+00	2.10E+01	2.70E+01
M	12	603.23	1.74E+01	21.18			1.74E+01	2.12E+01
m	13	609.34	2.81E+02	36.15	8.81E+00	3.15E+00	2.73E+02	3.63E+01
	14	767.78	3.71E+01	26.53			3.71E+01	2.65E+01
	15	791.20	3.26E+01	36.50			3.26E+01	3.65E+01
	16	913.03	2.02E+01	19.04			2.02E+01	1.90E+01
	17	1120.25	5.77E+01	29.93			5.77E+01	2.99E+01
	18	1213.77	2.73E+01	23.26			2.73E+01	2.33E+01
	19	1238.19	3.17E+01	24.98			3.17E+01	2.50E+01
M	20	1376.11	7.11E+00	4.80			7.11E+00	4.80E+00
m	21	1380.33	7.80E+00	10.62			7.80E+00	1.06E+01
M	22	1401.94	1.64E+01	10.62			1.64E+01	1.06E+01
m	23	1408.34	1.45E+01	10.81			1.45E+01	1.08E+01
	24	1460.79	8.82E+01	22.94	5.85E+00	2.19E+00	8.23E+01	2.30E+01
	25	1501.14	9.50E+00	7.28			9.50E+00	7.28E+00
	26	1509.46	1.37E+01	13.00			1.37E+01	1.30E+01
	27	1581.27	1.11E+01	8.25			1.11E+01	8.25E+00
	28	1594.75	7.50E+00	9.41			7.50E+00	9.41E+00
	29	1729.74	1.80E+01	10.95			1.80E+01	1.10E+01
	30	1764.43	5.80E+01	15.23			5.80E+01	1.52E+01
	31	1846.93	1.40E+01	7.48			1.40E+01	7.48E+00
	32	1957.33	5.00E+00	4.47			5.00E+00	4.47E+00
	33	2006.40	5.50E+00	6.08			5.50E+00	6.08E+00
	34	2203.53	1.90E+01	8.72	1.36E-01	1.12E+00	1.89E+01	8.79E+00
	35	2614.20	1.92E+01	9.81	5.15E+00	1.50E+00	1.41E+01	9.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.000	1460.81	*	10.67	1.72E+00	5.03E-01
CD-109	0.999	88.03	*	3.72	1.06E+00	5.34E-01
SB-124	0.430	602.71	*	97.87	2.69E-02	3.28E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
SN-126	0.955	87.57	*	37.00	1.02E-01	5.12E-02
TL-208	0.858	583.14	*	30.22	7.56E-02	9.75E-02
		860.37		4.48		
		2614.66	*	35.85	1.15E-01	8.13E-02
PB-210	0.998	46.50	*	4.25	9.23E-01	6.54E-01
PB-212	0.893	238.63	*	44.60	1.43E-01	4.87E-02
		300.09		3.41		
BI-214	0.995	609.31	*	46.30	6.63E-01	1.07E-01
		1120.29	*	15.10	6.97E-01	3.66E-01
		1764.49	*	15.80	9.24E-01	2.53E-01
		2204.22	*	4.98	1.06E+00	5.02E-01
PB-214	0.998	295.21	*	19.19	5.88E-01	1.76E-01
		351.92	*	37.19	7.29E-01	1.26E-01
RA-224	0.882	240.98	*	3.95	1.48E+00	5.46E-01
RA-226	0.998	186.21	*	3.28	1.68E+00	3.22E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:25PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	42.91	7.12932E-03	47.50	Tol.	PM-145
	3	76.74	7.97424E-02	16.05		
	9	338.29	1.99294E-02	30.92	Tol.	AC-228
	14	767.78	1.03143E-02	35.73		
	15	791.20	9.04619E-03	56.03		
	16	913.03	5.61111E-03	47.13	Tol.	LU-172
	18	1213.77	7.57407E-03	42.65		
	19	1238.19	8.80009E-03	39.43		

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	20	1376.11	1.97610E-03	33.71		
m	21	1380.33	2.16804E-03	68.02		
M	22	1401.94	4.55709E-03	32.36		
m	23	1408.34	4.02751E-03	37.26	Tol.	EU-152
	25	1501.14	2.63889E-03	38.32		
	26	1509.46	3.80051E-03	47.51		
	27	1581.27	3.07692E-03	37.22		
	28	1594.75	2.08333E-03	62.72		
	29	1729.74	5.00000E-03	30.43	Sum	
	31	1846.93	3.88889E-03	26.73		
	32	1957.33	1.38889E-03	44.72		
	33	2006.40	1.52778E-03	55.30	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.00	1460.81	*	10.67	1.72E+00	5.03E-01
CD-109	0.99	88.03	*	3.72	1.06E+00	5.34E-01
SB-124	0.43	602.71	*	97.87	2.69E-02	3.28E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
SN-126	0.95	87.57	*	37.00	1.02E-01	5.12E-02
TL-208	0.85	583.14	*	30.22	7.56E-02	9.75E-02
		860.37		4.48		
		2614.66	*	35.85	1.15E-01	8.13E-02
PB-210	0.99	46.50	*	4.25	9.23E-01	6.54E-01
PB-212	0.89	238.63	*	44.60	1.43E-01	4.87E-02
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	6.63E-01	1.07E-01
		1120.29	*	15.10	6.97E-01	3.66E-01
		1764.49	*	15.80	9.24E-01	2.53E-01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.99	2204.22	*	4.98	1.06E+00	5.02E-01
PB-214	0.99	295.21	*	19.19	5.88E-01	1.76E-01
		351.92	*	37.19	7.29E-01	1.26E-01
RA-224	0.88	240.98	*	3.95	1.48E+00	5.46E-01
RA-226	0.99	186.21	*	3.28	1.68E+00	3.22E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	1.000	1.72E+00	5.03E-01	
?	CD-109	0.999	1.06E+00	5.34E-01	
	SB-124	0.430	2.69E-02	3.28E-02	
?	SN-126	0.955	1.02E-01	5.12E-02	
	TL-208	0.858	9.86E-02	6.25E-02	
	PB-210	0.998	9.23E-01	6.54E-01	
	PB-212	0.893	1.43E-01	4.87E-02	
	BI-214	0.995	7.14E-01	9.33E-02	
	PB-214	0.998	6.81E-01	1.02E-01	
	RA-224	0.882	1.48E+00	5.46E-01	
	RA-226	0.998	1.68E+00	3.22E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:25PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	42.91	7.12932E-03	47.50	Tol.	PM-145
	3	76.74	7.97424E-02	16.05		
	9	338.29	1.99294E-02	30.92	Tol.	AC-228
	14	767.78	1.03143E-02	35.73		
	15	791.20	9.04619E-03	56.03		
	16	913.03	5.61111E-03	47.13	Tol.	LU-172
	18	1213.77	7.57407E-03	42.65		
	19	1238.19	8.80009E-03	39.43		
M	20	1376.11	1.97610E-03	33.71		
m	21	1380.33	2.16804E-03	68.02		
M	22	1401.94	4.55709E-03	32.36		
m	23	1408.34	4.02751E-03	37.26	Tol.	EU-152
	25	1501.14	2.63889E-03	38.32		
	26	1509.46	3.80051E-03	47.51		
	27	1581.27	3.07692E-03	37.22		
	28	1594.75	2.08333E-03	62.72		
	29	1729.74	5.00000E-03	30.43	Sum	
	31	1846.93	3.88889E-03	26.73		
	32	1957.33	1.38889E-03	44.72		
	33	2006.40	1.52778E-03	55.30	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-5.20E-02	4.15E-01	4.15E-01
+	NA-22	1274.54		99.94	2.70E-02	4.61E-02	4.61E-02
+	NA-24	1368.53		99.99	-2.52E+10	1.00E+11	1.86E+11
		2754.09		99.86	-9.55E+10		1.00E+11
+	AL-26	1808.65		99.76	-3.41E-03	2.76E-02	2.76E-02
+	K-40	1460.81	*	10.67	1.72E+00	5.44E-01	5.44E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-1.86E-02	3.66E-02	3.66E-02
		78.34		96.00	5.84E-02		4.13E-02
+	SC-46	889.25		99.98	-1.08E-02	4.90E-02	4.90E-02
		1120.51		99.99	1.23E-01		9.87E-02
+	V-48	983.52		99.98	-6.70E-03	1.25E-01	1.34E-01
		1312.10		97.50	-3.97E-02		1.25E-01
+	CR-51	320.08		9.83	-2.02E-01	5.30E-01	5.30E-01
+	MN-54	834.83		99.97	-3.38E-03	4.25E-02	4.25E-02
+	CO-56	846.75		99.96	3.64E-02	5.85E-02	5.85E-02
		1037.75		14.03	-1.93E-01		2.69E-01
		1238.25		67.00	6.86E-02		1.23E-01
		1771.40		15.51	-2.49E-02		3.08E-01
		2598.48		16.90	7.25E-03		2.02E-01
+	CO-57	122.06		85.51	-5.70E-04	3.17E-02	3.17E-02
		136.48		10.60	3.13E-02		2.82E-01
+	CO-58	810.76		99.40	-4.45E-03	5.40E-02	5.40E-02
+	FE-59	1099.22		56.50	-9.92E-02	8.68E-02	8.68E-02
		1291.56		43.20	-3.90E-02		1.33E-01
+	CO-60	1173.22		100.00	-5.09E-03	3.96E-02	3.96E-02
		1332.49		100.00	2.50E-03		4.48E-02
+	ZN-65	1115.52		50.75	-3.60E-01	1.10E-01	1.10E-01
+	GA-67	93.31		35.70	5.30E+01	2.83E+01	2.83E+01
		208.95		2.24	-7.41E+01		3.36E+02
		300.22		16.00	2.62E+01		5.29E+01
+	SE-75	121.11		16.70	-4.94E-02	5.49E-02	1.74E-01
		136.00		59.20	3.72E-02		5.49E-02
		264.65		59.80	1.20E-03		5.65E-02
		279.53		25.20	-4.45E-03		1.27E-01
		400.65		11.40	-6.11E-02		2.96E-01
+	RB-82	776.52		13.00	2.16E-01	5.25E-01	5.25E-01
+	RB-83	520.41		46.00	-7.69E-03	8.81E-02	8.81E-02
		529.64		30.30	-2.27E-02		1.21E-01
		552.65		16.40	-3.90E-02		2.59E-01
+	KR-85	513.99		0.43	7.29E+00	1.14E+01	1.14E+01
+	SR-85	513.99		99.27	4.20E-02	6.59E-02	6.59E-02
+	Y-88	898.02		93.40	-6.33E-03	4.03E-02	5.40E-02
		1836.01		99.38	-7.07E-03		4.03E-02
+	NB-93M	16.57		9.43	-2.03E+01	4.32E+01	4.32E+01
+	NB-94	702.63		100.00	1.55E-02	3.60E-02	3.60E-02
		871.10		100.00	-4.74E-03		3.74E-02

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	8.18E-02	9.20E-02	9.20E-02
+	NB-95M	235.69		25.00	-3.95E+01	1.89E+01	1.89E+01
+	ZR-95	724.18		43.70	-6.37E-02	8.91E-02	1.17E-01
		756.72		55.30	2.71E-03		8.91E-02
+	MO-99	181.06		6.20	1.67E+01	2.28E+02	3.36E+02
		739.58		12.80	-1.40E+01		2.28E+02
		778.00		4.50	1.23E+02		5.39E+02
+	RU-103	497.08		89.00	-1.77E-03	5.14E-02	5.14E-02
+	RU-106	621.84		9.80	5.71E-03	3.76E-01	3.76E-01
+	AG-108M	433.93		89.90	3.40E-02	4.08E-02	4.17E-02
		614.37		90.40	-2.48E-01		4.08E-02
		722.95		90.50	-1.54E-02		4.41E-02
+	CD-109	88.03	*	3.72	1.06E+00	1.88E+00	1.88E+00
+	AG-110M	657.75		93.14	1.19E-02	3.77E-02	3.77E-02
		677.61		10.53	-4.83E-02		3.47E-01
		706.67		16.46	-8.38E-02		2.03E-01
		763.93		21.98	-1.54E-02		2.16E-01
		884.67		71.63	1.70E-03		5.34E-02
		1384.27		23.94	6.02E-04		1.75E-01
+	CD-113M	263.70		0.02	4.63E+00	1.28E+02	1.28E+02
+	SN-113	255.12		1.93	1.49E-02	5.10E-02	1.79E+00
		391.69		64.90	-4.53E-03		5.10E-02
+	TE123M	159.00		84.10	1.32E-03	3.96E-02	3.96E-02
+	SB-124	602.71	*	97.87	2.69E-02	9.56E-02	1.31E-01
		645.85		7.26	-1.03E-01		6.10E-01
		722.78		11.10	-1.70E-01		4.87E-01
		1691.02		49.00	6.21E-03		9.56E-02
+	I-125	35.49		6.49	1.18E+00	1.69E+00	1.69E+00
+	SB-125	176.33		6.89	1.28E-01	1.14E-01	4.14E-01
		427.89		29.33	-5.94E-02		1.14E-01
		463.38		10.35	-6.64E-03		3.57E-01
		600.56		17.80	1.36E-01		2.43E-01
		635.90		11.32	0.00E+00		3.44E-01
+	SB-126	414.70		83.30	3.65E-02	1.59E-01	1.78E-01
		666.33		99.60	3.59E-02		1.59E-01
		695.00		99.60	8.69E-02		1.73E-01
		720.50		53.80	1.73E-01		3.26E-01
+	SN-126	87.57	*	37.00	1.02E-01	1.81E-01	1.81E-01
+	SB-127	473.00		25.00	-1.39E+00	1.24E+01	1.39E+01
		685.20		35.70	2.44E+00		1.24E+01
		783.80		14.70	-4.26E+00		2.50E+01
+	I-129	29.78		57.00	1.77E-01	2.71E-01	2.71E-01
		33.60		13.20	3.11E-01		7.28E-01
		39.58		7.52	3.44E-01		7.09E-01
+	I-131	284.30		6.05	-1.12E+00	3.70E-01	4.57E+00
		364.48		81.20	2.38E-01		3.70E-01
		636.97		7.26	1.28E+00		5.26E+00
		722.89		1.80	-7.48E+00		2.14E+01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	-1.45E+02	9.18E+00	7.68E+01
			228.16	88.00	3.38E+00		9.18E+00
+		BA-133	81.00	33.00	-1.72E-01	5.05E-02	8.70E-02
			302.84	17.80	5.05E-02		1.69E-01
			356.01	60.00	2.85E-03		5.05E-02
+		I-133	529.87	86.30	-8.82E+06	4.72E+07	4.72E+07
+		XE-133	81.00	38.00	-4.81E+00	2.43E+00	2.43E+00
+		CS-134	563.23	8.38	2.51E-02	4.83E-02	4.21E-01
			569.32	15.43	-4.81E-02		2.09E-01
			604.70	97.60	-4.85E-01		4.83E-02
			795.84	85.40	4.24E-03		5.04E-02
			801.93	8.73	-7.68E-02		4.69E-01
+		CS-135	268.24	16.00	4.18E-02	1.96E-01	1.96E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	4.77E-01	1.70E-01	1.59E+00
			163.89	4.61	3.26E-01		2.40E+00
			176.55	13.56	2.55E-01		8.25E-01
			273.65	12.66	-4.88E-01		8.71E-01
			340.57	48.50	1.14E-01		2.77E-01
			818.50	99.70	5.98E-02		1.70E-01
			1048.07	79.60	-4.34E-02		1.85E-01
			1235.34	19.70	1.73E-01		1.17E+00
+		CS-137	661.65	85.12	-2.32E-02	3.80E-02	3.80E-02
+		LA-138	788.74	34.00	-3.50E-02	4.37E-02	1.11E-01
			1435.80	66.00	-2.57E-02		4.37E-02
+		CE-139	165.85	80.35	-8.14E-04	3.92E-02	3.92E-02
+		BA-140	162.64	6.70	-3.29E-01	6.06E-01	1.72E+00
			304.84	4.50	-1.34E+00		2.48E+00
			423.70	3.20	1.06E+00		4.45E+00
			437.55	2.00	7.33E-01		7.18E+00
			537.32	25.00	-2.55E-02		6.06E-01
+		LA-140	328.77	20.50	1.71E-01	1.94E-01	5.95E-01
			487.03	45.50	1.20E-01		3.28E-01
			815.85	23.50	-4.28E-01		6.74E-01
			1596.49	95.49	1.12E-01		1.94E-01
+		CE-141	145.44	48.40	1.11E-02	1.02E-01	1.02E-01
+		CE-143	57.36	11.80	-6.35E+03	6.94E+04	1.73E+05
			293.26	42.00	1.41E+05		6.94E+04
			664.55	5.20	-3.62E+03		3.91E+05
+		CE-144	133.54	10.80	-7.85E-02	2.59E-01	2.59E-01
+		PM-144	476.78	42.00	-4.32E-02	3.72E-02	7.43E-02
			618.01	98.60	-1.40E-02		3.72E-02
			696.49	99.49	-4.62E-03		3.99E-02
+		PM-145	36.85	21.70	1.35E-01	1.70E-01	3.31E-01
			37.36	39.70	7.25E-03		1.70E-01
			42.30	15.10	-4.10E-01		3.16E-01
			72.40	2.31	8.38E-01		1.67E+00

00520

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90	39.94	-2.50E-02	7.72E-02	7.72E-02
		735.90	14.01	-1.09E-01		2.61E-01
		747.13	13.10	-6.03E-02		2.69E-01
+	ND-147	91.11	28.90	-1.79E-01	6.88E-01	6.88E-01
		531.02	13.10	-4.07E-03		1.23E+00
+	PM-149	285.90	3.10	-1.42E+02	3.61E+03	3.61E+03
+	EU-152	121.78	20.50	-2.23E-03	1.24E-01	1.24E-01
		244.69	5.40	9.34E-02		6.04E-01
		344.27	19.13	-3.68E-02		1.56E-01
		778.89	9.20	-2.67E-02		3.26E-01
		964.01	10.40	-2.11E-01		3.76E-01
		1085.78	7.22	8.45E-02		6.31E-01
		1112.02	9.60	-2.56E-01		5.10E-01
		1407.95	14.94	5.65E-02		3.43E-01
+	GD-153	97.43	31.30	5.84E-03	8.80E-02	8.80E-02
		103.18	22.20	-4.72E-02		1.28E-01
+	EU-154	123.07	40.50	-1.11E-02	6.28E-02	6.28E-02
		723.30	19.70	-7.12E-02		2.04E-01
		873.19	11.50	1.26E-01		3.58E-01
		996.32	10.30	-1.19E-01		4.36E-01
		1004.76	17.90	-5.32E-02		2.35E-01
		1274.45	35.50	7.50E-02		1.28E-01
+	EU-155	86.50	30.90	1.33E-01	1.13E-01	1.13E-01
		105.30	20.70	5.79E-02		1.35E-01
+	EU-156	811.77	10.40	-4.21E-01	1.27E+00	1.27E+00
		1153.47	7.20	1.12E+00		2.02E+00
		1230.71	8.90	9.52E-02		1.64E+00
+	HO-166M	184.41	72.60	9.06E-02	5.46E-02	5.46E-02
		280.45	29.60	-2.33E-02		9.13E-02
		410.94	11.10	-1.38E-01		2.81E-01
		711.69	54.10	3.88E-02		7.01E-02
+	TM-171	66.72	0.14	-3.71E+01	2.69E+01	2.69E+01
+	HF-172	81.75	4.52	-6.78E-01	2.38E-01	6.38E-01
		125.81	11.30	4.74E-02		2.38E-01
+	LU-172	181.53	20.60	-1.62E+00	9.02E-01	2.04E+00
		810.06	16.63	6.64E-01		3.89E+00
		912.12	15.25	1.75E+00		4.54E+00
		1093.66	62.50	-1.96E-01		9.02E-01
+	LU-173	100.72	5.24	1.14E-01	1.53E-01	5.12E-01
		272.11	21.20	8.74E-02		1.53E-01
+	HF-175	343.40	84.00	-3.73E-03	4.70E-02	4.70E-02
+	LU-176	88.34	13.30	6.42E-02	3.00E-02	2.56E-01
		201.83	86.00	-1.56E-02		3.43E-02
		306.78	94.00	1.06E-02		3.00E-02
+	TA-182	67.75	41.20	-4.99E-02	9.84E-02	9.84E-02
		1121.30	34.90	4.06E-01		2.69E-01
		1189.05	16.23	-2.81E-01		2.60E-01
		1221.41	26.98	-2.97E-02		1.60E-01
		1231.02	11.44	2.61E-02		4.52E-01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-7.10E-02	8.57E-02	1.15E-01
		468.07		48.10	-4.30E-02		8.57E-02
+	HG-203	279.19		77.30	1.82E-03	5.29E-02	5.29E-02
+	BI-207	569.67		97.72	4.45E-03	3.27E-02	3.27E-02
		1063.62		74.90	2.57E-02		6.50E-02
+	TL-208	583.14	*	30.22	7.56E-02	1.09E-01	1.60E-01
		860.37		4.48	4.35E-01		9.58E-01
		2614.66	*	35.85	1.15E-01		1.09E-01
+	BI-210M	262.00		45.00	-2.31E-02	6.24E-02	6.24E-02
		300.00		23.00	6.79E-02		1.37E-01
+	PB-210	46.50	*	4.25	9.23E-01	1.53E+00	1.53E+00
+	PB-211	404.84		2.90	1.22E-01	1.05E+00	1.05E+00
		831.96		2.90	-1.98E-01		1.38E+00
+	BI-212	727.17		11.80	4.06E-02	3.48E-01	3.48E-01
		1620.62		2.75	-3.91E-01		1.04E+00
+	PB-212	238.63	*	44.60	1.43E-01	1.20E-01	1.20E-01
		300.09		3.41	4.58E-01		9.26E-01
+	BI-214	609.31	*	46.30	6.63E-01	4.31E-02	2.04E-01
		1120.29	*	15.10	6.97E-01		5.45E-01
		1764.49	*	15.80	9.24E-01		4.31E-02
		2204.22	*	4.98	1.06E+00		2.77E-01
+	PB-214	295.21	*	19.19	5.88E-01	1.38E-01	2.45E-01
		351.92	*	37.19	7.29E-01		1.38E-01
+	RN-219	401.80		6.50	7.48E-02	4.87E-01	4.87E-01
+	RA-223	323.87		3.88	3.60E-01	8.17E-01	8.17E-01
+	RA-224	240.98	*	3.95	1.48E+00	1.34E+00	1.34E+00
+	RA-225	40.00		31.00	2.79E-01	5.74E-01	5.74E-01
+	RA-226	186.21	*	3.28	1.68E+00	1.55E+00	1.55E+00
+	TH-227	50.10		8.40	-8.28E-01	2.64E-01	4.39E-01
		236.00		11.50	-5.51E-01		2.64E-01
		256.20		6.30	-2.04E-02		4.71E-01
+	AC-228	338.32		11.40	4.78E-02	1.69E-01	2.96E-01
		911.07		27.70	8.10E-02		1.69E-01
		969.11		16.60	1.01E-01		2.88E-01
+	TH-230	48.44		16.90	1.89E-01	2.69E-01	2.69E-01
		62.85		4.60	1.94E+00		9.64E-01
		67.67		0.37	-4.74E+00		9.35E+00
+	PA-231	283.67		1.60	-2.68E-02	1.30E+00	1.78E+00
		302.67		2.30	3.89E-01		1.30E+00
+	TH-231	25.64		14.70	-2.70E+00	4.76E-01	2.74E+00
		84.21		6.40	-5.57E-01		4.76E-01
+	PA-233	311.98		38.60	2.76E-02	1.51E-01	1.51E-01
+	PA-234	131.20		20.40	9.62E-03	1.29E-01	1.29E-01
		733.99		8.80	1.25E-01		4.42E-01
		946.00		12.00	2.39E-02		3.45E-01
+	PA-234M	1001.03		0.92	2.10E+00	5.48E+00	5.48E+00
+	TH-234	63.29		3.80	2.10E+00	1.16E+00	1.16E+00

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	-3.28E-02	2.69E-01	2.69E-01
		163.35	4.70	7.99E-02		5.88E-01
		205.31	4.70	-1.65E-01		6.05E-01
+	NP-237	86.50	12.60	3.24E-01	2.75E-01	2.75E-01
+	NP-239	106.10	22.70	1.20E+02	2.81E+02	2.81E+02
		228.18	10.70	2.38E+02		6.46E+02
		277.60	14.10	-1.07E+02		4.35E+02
+	AM-241	59.54	35.90	-2.54E-01	9.66E-02	9.66E-02
+	AM-243	74.67	66.00	-8.18E-02	6.37E-02	6.37E-02
+	CM-243	209.75	3.29	-3.65E-01	1.91E-01	8.47E-01
		228.14	10.60	1.04E-01		2.84E-01
		277.60	14.00	-4.71E-02		1.91E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	4.15E-01	4.15E-01	-5.20E-02	1.90E-01
	NA-22	1274.54		99.94	4.61E-02	4.61E-02	2.70E-02	2.03E-02
	NA-24	1368.53		99.99	1.86E+11	1.00E+11	-2.52E+10	7.98E+10
		2754.09		99.86	1.00E+11		-9.55E+10	3.17E+10
	AL-26	1808.65		99.76	2.76E-02	2.76E-02	-3.41E-03	1.03E-02
+	K-40	1460.81	*	10.67	5.44E-01	5.44E-01	1.72E+00	2.44E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	3.66E-02	3.66E-02	-1.86E-02	1.77E-02
		78.34		96.00	4.13E-02		5.84E-02	2.01E-02
	SC-46	889.25		99.98	4.90E-02	4.90E-02	-1.08E-02	2.20E-02

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	9.87E-02	4.90E-02	1.23E-01	4.63E-02
	V-48	983.52		99.98	1.34E-01	1.25E-01	-6.70E-03	6.00E-02
		1312.10		97.50	1.25E-01		-3.97E-02	5.33E-02
	CR-51	320.08		9.83	5.30E-01	5.30E-01	-2.02E-01	2.46E-01
	MN-54	834.83		99.97	4.25E-02	4.25E-02	-3.38E-03	1.92E-02
	CO-56	846.75		99.96	5.85E-02	5.85E-02	3.64E-02	2.67E-02
		1037.75		14.03	2.69E-01		-1.93E-01	1.13E-01
		1238.25		67.00	1.23E-01		6.86E-02	5.66E-02
		1771.40		15.51	3.08E-01		-2.49E-02	1.26E-01
		2598.48		16.90	2.02E-01		7.25E-03	7.15E-02
	CO-57	122.06		85.51	3.17E-02	3.17E-02	-5.70E-04	1.52E-02
		136.48		10.60	2.82E-01		3.13E-02	1.35E-01
	CO-58	810.76		99.40	5.40E-02	5.40E-02	-4.45E-03	2.45E-02
	FE-59	1099.22		56.50	8.68E-02	8.68E-02	-9.92E-02	3.69E-02
		1291.56		43.20	1.33E-01		-3.90E-02	5.71E-02
	CO-60	1173.22		100.00	3.96E-02	3.96E-02	-5.09E-03	1.72E-02
		1332.49		100.00	4.48E-02		2.50E-03	1.96E-02
	ZN-65	1115.52		50.75	1.10E-01	1.10E-01	-3.60E-01	5.00E-02
	GA-67	93.31		35.70	2.83E+01	2.83E+01	5.30E+01	1.38E+01
		208.95		2.24	3.36E+02		-7.41E+01	1.59E+02
		300.22		16.00	5.29E+01		2.62E+01	2.49E+01
	SE-75	121.11		16.70	1.74E-01	5.49E-02	-4.94E-02	8.31E-02
		136.00		59.20	5.49E-02		3.72E-02	2.63E-02
		264.65		59.80	5.65E-02		1.20E-03	2.66E-02
		279.53		25.20	1.27E-01		-4.45E-03	5.95E-02
		400.65		11.40	2.96E-01		-6.11E-02	1.37E-01
	RB-82	776.52		13.00	5.25E-01	5.25E-01	2.16E-01	2.33E-01
	RB-83	520.41		46.00	8.81E-02	8.81E-02	-7.69E-03	4.04E-02
		529.64		30.30	1.21E-01		-2.27E-02	5.51E-02
		552.65		16.40	2.59E-01		-3.90E-02	1.19E-01
	KR-85	513.99		0.43	1.14E+01	1.14E+01	7.29E+00	5.40E+00
	SR-85	513.99		99.27	6.59E-02	6.59E-02	4.20E-02	3.12E-02
	Y-88	898.02		93.40	5.40E-02	4.03E-02	-6.33E-03	2.44E-02
		1836.01		99.38	4.03E-02		-7.07E-03	1.60E-02
	NB-93M	16.57		9.43	4.32E+01	4.32E+01	-2.03E+01	1.97E+01
	NB-94	702.63		100.00	3.60E-02	3.60E-02	1.55E-02	1.63E-02
		871.10		100.00	3.74E-02		-4.74E-03	1.67E-02
	NB-95	765.79		99.81	9.20E-02	9.20E-02	8.18E-02	4.29E-02
	NB-95M	235.69		25.00	1.89E+01	1.89E+01	-3.95E+01	8.97E+00
	ZR-95	724.18		43.70	1.17E-01	8.91E-02	-6.37E-02	5.32E-02
		756.72		55.30	8.91E-02		2.71E-03	4.02E-02
	MO-99	181.06		6.20	3.36E+02	2.28E+02	1.67E+01	1.60E+02
		739.58		12.80	2.28E+02		-1.40E+01	1.03E+02
		778.00		4.50	5.39E+02		1.23E+02	2.38E+02
	RU-103	497.08		89.00	5.14E-02	5.14E-02	-1.77E-03	2.34E-02
	RU-106	621.84		9.80	3.76E-01	3.76E-01	5.71E-03	1.71E-01
	AG-108M	433.93		89.90	4.17E-02	4.08E-02	3.40E-02	1.95E-02
		614.37		90.40	4.08E-02		-2.48E-01	1.87E-02
		722.95		90.50	4.41E-02		-1.54E-02	2.01E-02
+	CD-109	88.03	*	3.72	1.88E+00	1.88E+00	1.06E+00	9.23E-01
	AG-110M	657.75		93.14	3.77E-02	3.77E-02	1.19E-02	1.70E-02
		677.61		10.53	3.47E-01		-4.83E-02	1.57E-01
		706.67		16.46	2.03E-01		-8.38E-02	9.02E-02

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	2.16E-01	3.77E-02	-1.54E-02	9.92E-02
		884.67		71.63	5.34E-02		1.70E-03	2.36E-02
		1384.27		23.94	1.75E-01		6.02E-04	7.43E-02
	CD-113M	263.70		0.02	1.28E+02	1.28E+02	4.63E+00	6.02E+01
	SN-113	255.12		1.93	1.79E+00	5.10E-02	1.49E-02	8.45E-01
		391.69		64.90	5.10E-02		-4.53E-03	2.35E-02
	TE123M	159.00		84.10	3.96E-02	3.96E-02	1.32E-03	1.90E-02
+	SB-124	602.71	*	97.87	1.31E-01	9.56E-02	2.69E-02	6.33E-02
		645.85		7.26	6.10E-01		-1.03E-01	2.75E-01
		722.78		11.10	4.87E-01		-1.70E-01	2.22E-01
		1691.02		49.00	9.56E-02		6.21E-03	3.86E-02
	I-125	35.49		6.49	1.69E+00	1.69E+00	1.18E+00	8.09E-01
	SB-125	176.33		6.89	4.14E-01	1.14E-01	1.28E-01	1.97E-01
		427.89		29.33	1.14E-01		-5.94E-02	5.31E-02
		463.38		10.35	3.57E-01		-6.64E-03	1.66E-01
		600.56		17.80	2.43E-01		1.36E-01	1.13E-01
		635.90		11.32	3.44E-01		0.00E+00	1.58E-01
	SB-126	414.70		83.30	1.78E-01	1.59E-01	3.65E-02	8.32E-02
		666.33		99.60	1.59E-01		3.59E-02	7.26E-02
		695.00		99.60	1.73E-01		8.69E-02	7.92E-02
		720.50		53.80	3.26E-01		1.73E-01	1.49E-01
+	SN-126	87.57	*	37.00	1.81E-01	1.81E-01	1.02E-01	8.93E-02
	SB-127	473.00		25.00	1.39E+01	1.24E+01	-1.39E+00	6.38E+00
		685.20		35.70	1.24E+01		2.44E+00	5.65E+00
		783.80		14.70	2.50E+01		-4.26E+00	1.11E+01
	I-129	29.78		57.00	2.71E-01	2.71E-01	1.77E-01	1.29E-01
		33.60		13.20	7.28E-01		3.11E-01	3.48E-01
		39.58		7.52	7.09E-01		3.44E-01	3.38E-01
	I-131	284.30		6.05	4.57E+00	3.70E-01	-1.12E+00	2.15E+00
		364.48		81.20	3.70E-01		2.38E-01	1.73E-01
		636.97		7.26	5.26E+00		1.28E+00	2.42E+00
		722.89		1.80	2.14E+01		-7.48E+00	9.77E+00
	TE-132	49.72		13.10	7.68E+01	9.18E+00	-1.45E+02	3.67E+01
		228.16		88.00	9.18E+00		3.38E+00	4.36E+00
	BA-133	81.00		33.00	8.70E-02	5.05E-02	-1.72E-01	4.19E-02
		302.84		17.80	1.69E-01		5.05E-02	7.93E-02
		356.01		60.00	5.05E-02		2.85E-03	2.35E-02
	I-133	529.87		86.30	4.72E+07	4.72E+07	-8.82E+06	2.14E+07
	XE-133	81.00		38.00	2.43E+00	2.43E+00	-4.81E+00	1.17E+00
	CS-134	563.23		8.38	4.21E-01	4.83E-02	2.51E-02	1.93E-01
		569.32		15.43	2.09E-01		-4.81E-02	9.48E-02
		604.70		97.60	4.83E-02		-4.85E-01	2.25E-02
		795.84		85.40	5.04E-02		4.24E-03	2.29E-02
		801.93		8.73	4.69E-01		-7.68E-02	2.12E-01
	CS-135	268.24		16.00	1.96E-01	1.96E-01	4.18E-02	9.26E-02
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.59E+00	1.70E-01	4.77E-01	7.62E-01
		163.89		4.61	2.40E+00		3.26E-01	1.15E+00
		176.55		13.56	8.25E-01		2.55E-01	3.93E-01
		273.65		12.66	8.71E-01		-4.88E-01	4.09E-01
		340.57		48.50	2.77E-01		1.14E-01	1.30E-01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	1.70E-01	1.70E-01	5.98E-02	7.73E-02
	1048.07	79.60	1.85E-01		-4.34E-02	8.09E-02
	1235.34	19.70	1.17E+00		1.73E-01	5.33E-01
CS-137	661.65	85.12	3.80E-02	3.80E-02	-2.32E-02	1.71E-02
LA-138	788.74	34.00	1.11E-01	4.37E-02	-3.50E-02	4.99E-02
	1435.80	66.00	4.37E-02		-2.57E-02	1.73E-02
CE-139	165.85	80.35	3.92E-02	3.92E-02	-8.14E-04	1.87E-02
BA-140	162.64	6.70	1.72E+00	6.06E-01	-3.29E-01	8.21E-01
	304.84	4.50	2.48E+00		-1.34E+00	1.16E+00
	423.70	3.20	4.45E+00		1.06E+00	2.07E+00
	437.55	2.00	7.18E+00		7.33E-01	3.34E+00
	537.32	25.00	6.06E-01		-2.55E-02	2.80E-01
LA-140	328.77	20.50	5.95E-01	1.94E-01	1.71E-01	2.78E-01
	487.03	45.50	3.28E-01		1.20E-01	1.52E-01
	815.85	23.50	6.74E-01		-4.28E-01	3.03E-01
	1596.49	95.49	1.94E-01		1.12E-01	8.30E-02
CE-141	145.44	48.40	1.02E-01	1.02E-01	1.11E-02	4.90E-02
CE-143	57.36	11.80	1.73E+05	6.94E+04	-6.35E+03	8.31E+04
	293.26	42.00	6.94E+04		1.41E+05	3.35E+04
	664.55	5.20	3.91E+05		-3.62E+03	1.78E+05
CE-144	133.54	10.80	2.59E-01	2.59E-01	-7.85E-02	1.24E-01
PM-144	476.78	42.00	7.43E-02	3.72E-02	-4.32E-02	3.40E-02
	618.01	98.60	3.72E-02		-1.40E-02	1.69E-02
	696.49	99.49	3.99E-02		-4.62E-03	1.82E-02
PM-145	36.85	21.70	3.31E-01	1.70E-01	1.35E-01	1.58E-01
	37.36	39.70	1.70E-01		7.25E-03	8.13E-02
	42.30	15.10	3.16E-01		-4.10E-01	1.51E-01
	72.40	2.31	1.67E+00		8.38E-01	8.09E-01
PM-146	453.90	39.94	7.72E-02	7.72E-02	-2.50E-02	3.55E-02
	735.90	14.01	2.61E-01		-1.09E-01	1.18E-01
	747.13	13.10	2.69E-01		-6.03E-02	1.21E-01
ND-147	91.11	28.90	6.88E-01	6.88E-01	-1.79E-01	3.34E-01
	531.02	13.10	1.23E+00		-4.07E-03	5.60E-01
PM-149	285.90	3.10	3.61E+03	3.61E+03	-1.42E+02	1.70E+03
EU-152	121.78	20.50	1.24E-01	1.24E-01	-2.23E-03	5.94E-02
	244.69	5.40	6.04E-01		9.34E-02	2.87E-01
	344.27	19.13	1.56E-01		-3.68E-02	7.26E-02
	778.89	9.20	3.26E-01		-2.67E-02	1.43E-01
	964.01	10.40	3.76E-01		-2.11E-01	1.67E-01
	1085.78	7.22	6.31E-01		8.45E-02	2.82E-01
	1112.02	9.60	5.10E-01		-2.56E-01	2.29E-01
	1407.95	14.94	3.43E-01		5.65E-02	1.52E-01
GD-153	97.43	31.30	8.80E-02	8.80E-02	5.84E-03	4.22E-02
	103.18	22.20	1.28E-01		-4.72E-02	6.16E-02
EU-154	123.07	40.50	6.28E-02	6.28E-02	-1.11E-02	3.00E-02
	723.30	19.70	2.04E-01		-7.12E-02	9.30E-02
	873.19	11.50	3.58E-01		1.26E-01	1.61E-01
	996.32	10.30	4.36E-01		-1.19E-01	1.96E-01
	1004.76	17.90	2.35E-01		-5.32E-02	1.05E-01
	1274.45	35.50	1.28E-01		7.50E-02	5.63E-02
EU-155	86.50	30.90	1.13E-01	1.13E-01	1.33E-01	5.49E-02
	105.30	20.70	1.35E-01		5.79E-02	6.49E-02
EU-156	811.77	10.40	1.27E+00	1.27E+00	-4.21E-01	5.74E-01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	2.02E+00	1.27E+00	1.12E+00	8.95E-01
		1230.71		8.90	1.64E+00		9.52E-02	7.23E-01
	HO-166M	184.41		72.60	5.46E-02	5.46E-02	9.06E-02	2.64E-02
		280.45		29.60	9.13E-02		-2.33E-02	4.27E-02
		410.94		11.10	2.81E-01		-1.38E-01	1.30E-01
		711.69		54.10	7.01E-02		3.88E-02	3.19E-02
	TM-171	66.72		0.14	2.69E+01	2.69E+01	-3.71E+01	1.30E+01
	HF-172	81.75		4.52	6.38E-01	2.38E-01	-6.78E-01	3.07E-01
		125.81		11.30	2.38E-01		4.74E-02	1.14E-01
	LU-172	181.53		20.60	2.04E+00	9.02E-01	-1.62E+00	9.72E-01
		810.06		16.63	3.89E+00		6.64E-01	1.77E+00
		912.12		15.25	4.54E+00		1.75E+00	2.06E+00
		1093.66		62.50	9.02E-01		-1.96E-01	3.92E-01
	LU-173	100.72		5.24	5.12E-01	1.53E-01	1.14E-01	2.46E-01
		272.11		21.20	1.53E-01		8.74E-02	7.21E-02
	HF-175	343.40		84.00	4.70E-02	4.70E-02	-3.73E-03	2.20E-02
	LU-176	88.34		13.30	2.56E-01	3.00E-02	6.42E-02	1.24E-01
		201.83		86.00	3.43E-02		-1.56E-02	1.64E-02
		306.78		94.00	3.00E-02		1.06E-02	1.40E-02
	TA-182	67.75		41.20	9.84E-02	9.84E-02	-4.99E-02	4.76E-02
		1121.30		34.90	2.69E-01		4.06E-01	1.26E-01
		1189.05		16.23	2.60E-01		-2.81E-01	1.11E-01
		1221.41		26.98	1.60E-01		-2.97E-02	6.83E-02
		1231.02		11.44	4.52E-01		2.61E-02	1.99E-01
	IR-192	308.46		29.68	1.15E-01	8.57E-02	-7.10E-02	5.35E-02
		468.07		48.10	8.57E-02		-4.30E-02	3.95E-02
	HG-203	279.19		77.30	5.29E-02	5.29E-02	1.82E-03	2.48E-02
	BI-207	569.67		97.72	3.27E-02	3.27E-02	4.45E-03	1.49E-02
		1063.62		74.90	6.50E-02		2.57E-02	2.93E-02
+	TL-208	583.14	*	30.22	1.60E-01	1.09E-01	7.56E-02	7.53E-02
		860.37		4.48	9.58E-01		4.35E-01	4.34E-01
		2614.66	*	35.85	1.09E-01		1.15E-01	4.34E-02
	BI-210M	262.00		45.00	6.24E-02	6.24E-02	-2.31E-02	2.93E-02
		300.00		23.00	1.37E-01		6.79E-02	6.47E-02
+	PB-210	46.50	*	4.25	1.53E+00	1.53E+00	9.23E-01	7.44E-01
	PB-211	404.84		2.90	1.05E+00	1.05E+00	1.22E-01	4.88E-01
		831.96		2.90	1.38E+00		-1.98E-01	6.22E-01
	BI-212	727.17		11.80	3.48E-01	3.48E-01	4.06E-02	1.59E-01
		1620.62		2.75	1.04E+00		-3.91E-01	4.04E-01
+	PB-212	238.63	*	44.60	1.20E-01	1.20E-01	1.43E-01	5.85E-02
		300.09		3.41	9.26E-01		4.58E-01	4.36E-01
+	BI-214	609.31	*	46.30	2.04E-01	4.31E-02	6.63E-01	9.88E-02
		1120.29	*	15.10	5.45E-01		6.97E-01	2.56E-01
		1764.49	*	15.80	4.31E-02		9.24E-01	0.00E+00
		2204.22	*	4.98	2.77E-01		1.06E+00	6.22E-02
+	PB-214	295.21	*	19.19	2.45E-01	1.38E-01	5.88E-01	1.18E-01
		351.92	*	37.19	1.38E-01		7.29E-01	6.64E-02
	RN-219	401.80		6.50	4.87E-01	4.87E-01	7.48E-02	2.27E-01
	RA-223	323.87		3.88	8.17E-01	8.17E-01	3.60E-01	3.84E-01
+	RA-224	240.98	*	3.95	1.34E+00	1.34E+00	1.48E+00	6.51E-01
	RA-225	40.00		31.00	5.74E-01	5.74E-01	2.79E-01	2.73E-01
+	RA-226	186.21	*	3.28	1.55E+00	1.55E+00	1.68E+00	7.55E-01
	TH-227	50.10		8.40	4.39E-01	2.64E-01	-8.28E-01	2.10E-01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-227	236.00	11.50	2.64E-01	2.64E-01	-5.51E-01	1.25E-01
	256.20	6.30	4.71E-01		-2.04E-02	2.23E-01
AC-228	338.32	11.40	2.96E-01	1.69E-01	4.78E-02	1.40E-01
	911.07	27.70	1.69E-01		8.10E-02	7.69E-02
	969.11	16.60	2.88E-01		1.01E-01	1.31E-01
TH-230	48.44	16.90	2.69E-01	2.69E-01	1.89E-01	1.29E-01
	62.85	4.60	9.64E-01		1.94E+00	4.69E-01
	67.67	0.37	9.35E+00		-4.74E+00	4.52E+00
PA-231	283.67	1.60	1.78E+00	1.30E+00	-2.68E-02	8.34E-01
	302.67	2.30	1.30E+00		3.89E-01	6.10E-01
TH-231	25.64	14.70	2.74E+00	4.76E-01	-2.70E+00	1.32E+00
	84.21	6.40	4.76E-01		-5.57E-01	2.30E-01
PA-233	311.98	38.60	1.51E-01	1.51E-01	2.76E-02	7.06E-02
PA-234	131.20	20.40	1.29E-01	1.29E-01	9.62E-03	6.18E-02
	733.99	8.80	4.42E-01		1.25E-01	2.01E-01
	946.00	12.00	3.45E-01		2.39E-02	1.55E-01
PA-234M	1001.03	0.92	5.48E+00	5.48E+00	2.10E+00	2.50E+00
TH-234	63.29	3.80	1.16E+00	1.16E+00	2.10E+00	5.65E-01
U-235	143.76	10.50	2.69E-01	2.69E-01	-3.28E-02	1.29E-01
	163.35	4.70	5.88E-01		7.99E-02	2.81E-01
	205.31	4.70	6.05E-01		-1.65E-01	2.88E-01
NP-237	86.50	12.60	2.75E-01	2.75E-01	3.24E-01	1.33E-01
NP-239	106.10	22.70	2.81E+02	2.81E+02	1.20E+02	1.35E+02
	228.18	10.70	6.46E+02		2.38E+02	3.07E+02
	277.60	14.10	4.35E+02		-1.07E+02	2.04E+02
AM-241	59.54	35.90	9.66E-02	9.66E-02	-2.54E-01	4.66E-02
AM-243	74.67	66.00	6.37E-02	6.37E-02	-8.18E-02	3.10E-02
CM-243	209.75	3.29	8.47E-01	1.91E-01	-3.65E-01	4.01E-01
	228.14	10.60	2.84E-01		1.04E-01	1.35E-01
	277.60	14.00	1.91E-01		-4.71E-02	8.92E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

00528

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-20 080-081

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	34	48	73	198	170	132
25:	41	33	32	31	37	34	24	39
33:	20	31	33	41	30	33	28	26
41:	30	18	40	31	30	59	91	38
49:	36	39	31	27	39	45	39	43
57:	44	45	56	40	51	43	113	144
65:	80	52	50	65	71	50	56	65
73:	80	52	131	96	118	169	51	42
81:	55	44	34	44	64	55	65	93
89:	68	51	58	67	171	83	57	36
97:	41	31	46	30	37	35	40	37
105:	38	45	49	44	34	36	39	44
113:	37	34	33	37	27	33	32	36
121:	38	28	26	37	34	34	33	35
129:	36	38	35	41	23	32	31	38
137:	38	46	32	38	42	37	35	39
145:	32	38	35	35	34	39	33	37
153:	38	42	36	35	34	37	28	39
161:	30	32	33	31	27	29	28	34
169:	28	29	17	32	22	25	29	29
177:	22	31	32	25	26	25	26	33
185:	39	101	81	34	33	20	26	30
193:	14	22	24	26	32	19	38	27
201:	35	25	25	24	29	31	25	14
209:	29	25	24	22	29	22	26	22
217:	21	20	23	28	24	20	14	22
225:	17	15	26	22	28	29	25	16
233:	24	25	14	19	18	41	98	37
241:	23	72	56	28	13	9	23	15
249:	16	12	13	21	18	28	12	20
257:	21	19	24	18	15	21	14	18
265:	17	23	19	20	16	30	20	18
273:	18	16	14	12	18	18	16	7
281:	17	17	15	16	15	16	18	19
289:	19	17	19	21	16	15	91	112
297:	27	18	12	20	26	15	13	10
305:	16	13	11	20	9	9	12	17
313:	20	17	9	16	11	11	15	12
321:	9	12	15	16	21	18	16	12
329:	16	16	8	9	4	10	13	18
337:	10	25	26	11	16	15	18	11
345:	11	14	11	17	14	16	33	234
353:	136	16	11	13	12	12	9	12
361:	12	4	12	15	15	11	13	9

369:	7	5	9	12	14	8	8	15

Sample Title: FEEBRIS1D-20 080-081

Channel								
377:	4	11	10	4	9	11	9	8
385:	8	6	9	13	8	9	6	10
393:	12	11	11	9	4	10	4	12
401:	12	14	7	14	15	11	7	7
409:	9	7	11	7	8	6	10	13
417:	5	17	11	4	8	13	6	9
425:	11	7	10	9	7	5	9	12
433:	15	7	11	12	9	4	7	12
441:	7	9	4	9	8	8	10	10
449:	6	10	6	5	10	4	7	8
457:	5	5	11	10	8	7	10	12
465:	9	6	11	7	9	5	1	9
473:	8	4	5	10	6	4	5	5
481:	7	9	5	10	7	5	9	6
489:	9	11	5	6	6	7	9	6
497:	2	2	3	5	3	6	8	6
505:	2	8	4	8	12	19	27	28
513:	11	12	9	10	6	10	6	5
521:	8	3	5	5	7	4	2	6
529:	4	7	3	2	9	4	7	6
537:	11	4	6	10	6	11	5	4
545:	6	5	6	4	12	2	5	8
553:	4	9	11	3	2	9	5	5
561:	2	9	8	9	4	4	3	6
569:	6	3	6	5	5	5	4	5
577:	9	5	4	6	3	5	17	19
585:	7	3	6	7	4	5	10	4
593:	5	4	6	4	7	8	6	5
601:	8	5	16	10	6	4	8	19
609:	128	120	22	6	5	4	5	8
617:	8	5	5	2	3	4	12	3
625:	7	6	9	7	3	8	5	7
633:	5	2	3	10	7	10	5	8
641:	4	5	7	3	4	6	3	1
649:	5	5	5	5	3	2	3	3
657:	4	4	6	4	4	5	1	3
665:	4	9	6	5	7	4	3	8
673:	4	3	2	1	7	2	5	7
681:	5	5	7	8	3	2	7	6
689:	5	2	4	6	5	10	3	2
697:	8	5	1	6	9	2	5	4
705:	2	3	1	4	5	3	6	5
713:	4	5	6	4	1	5	3	7
721:	8	2	7	6	3	4	4	13
729:	4	5	3	8	5	3	2	9
737:	4	4	2	7	5	6	5	4
745:	5	3	6	3	3	2	4	4
753:	3	4	4	2	4	5	3	7
761:	3	6	4	8	5	5	11	16
769:	17	4	4	2	4	3	3	2
777:	4	2	1	7	1	0	2	3
785:	3	7	4	6	2	1	3	5
793:	4	9	8	4	3	2	5	3

801:	7	2	6	3	5	8	6	4

Sample Title: FEEBRIS1D-20 080-081

Channel								
809:	4	4	6	6	5	4	1	6
817:	6	1	4	7	6	4	6	2
825:	4	3	3	4	5	3	7	4
833:	3	3	4	7	4	4	4	4
841:	6	3	5	8	7	3	10	2
849:	3	6	2	2	4	4	3	3
857:	7	4	5	4	6	2	4	1
865:	4	5	2	1	2	3	4	4
873:	6	3	4	4	2	5	4	1
881:	5	4	1	0	3	3	6	3
889:	3	2	3	5	9	4	3	5
897:	7	5	5	3	1	3	4	6
905:	4	3	0	5	3	4	9	8
913:	1	5	3	5	2	0	5	4
921:	5	6	4	4	5	4	5	2
929:	3	3	4	5	3	13	8	4
937:	1	4	4	7	4	2	5	3
945:	4	3	7	1	2	5	2	3
953:	3	1	5	4	1	2	5	2
961:	2	0	8	3	4	2	2	5
969:	7	9	4	4	2	4	3	0
977:	6	4	0	5	4	6	4	1
985:	4	4	2	6	3	2	4	1
993:	4	3	3	4	5	1	7	8
1001:	6	5	5	3	1	4	3	2
1009:	3	2	3	0	4	4	2	1
1017:	3	6	3	3	0	4	2	1
1025:	4	4	1	5	1	4	5	5
1033:	5	2	1	2	2	0	3	0
1041:	2	4	2	4	5	1	2	2
1049:	1	3	2	3	3	3	7	3
1057:	1	7	1	2	1	4	5	8
1065:	3	4	4	4	3	1	1	4
1073:	5	4	2	2	3	2	4	5
1081:	3	4	3	4	2	5	3	3
1089:	4	5	0	1	1	3	4	4
1097:	2	1	0	1	2	1	7	3
1105:	6	2	2	1	2	3	3	1
1113:	3	8	7	2	2	2	7	29
1121:	28	5	4	3	1	2	3	2
1129:	3	3	1	1	3	8	2	4
1137:	3	5	2	4	4	3	0	2
1145:	2	2	5	1	1	2	3	2
1153:	3	4	5	1	1	1	3	0
1161:	6	0	3	2	5	1	1	2
1169:	2	1	1	3	2	4	3	1
1177:	4	2	2	4	1	3	3	6
1185:	8	0	2	2	2	1	2	3
1193:	2	2	0	1	5	0	3	2
1201:	3	2	2	2	2	1	1	1
1209:	6	4	6	1	3	2	2	2
1217:	2	1	4	3	0	0	2	2
1225:	3	4	1	3	3	1	3	1

1233:	3	4	1	4	7	13	11	4

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Channel								
1241:	3	4	3	3	2	3	3	1
1249:	3	1	0	4	6	2	1	1
1257:	3	1	3	2	0	2	4	1
1265:	0	3	2	3	2	0	1	3
1273:	4	5	2	3	0	1	0	2
1281:	5	1	2	1	2	1	4	0
1289:	2	1	0	2	1	6	3	2
1297:	3	2	3	1	4	2	2	2
1305:	2	1	2	4	0	1	1	3
1313:	0	6	1	1	3	4	2	1
1321:	1	1	1	2	3	2	1	2
1329:	3	2	1	6	0	3	1	2
1337:	3	2	2	2	0	1	0	0
1345:	3	2	0	0	0	3	1	1
1353:	0	2	1	2	2	2	1	2
1361:	0	0	1	0	2	3	0	3
1369:	2	1	1	3	3	1	1	4
1377:	2	9	1	4	2	1	0	1
1385:	1	6	0	3	3	2	2	0
1393:	1	2	0	3	1	1	1	1
1401:	5	8	2	1	1	1	4	7
1409:	3	1	3	4	2	2	0	1
1417:	3	1	2	1	5	2	2	0
1425:	1	3	3	1	3	2	1	2
1433:	0	2	1	1	0	0	1	1
1441:	3	1	2	1	0	0	2	3
1449:	2	3	0	1	0	1	2	6
1457:	1	2	9	41	31	19	1	1
1465:	1	4	1	0	4	2	0	0
1473:	2	0	1	2	2	0	2	0
1481:	1	1	3	1	1	1	1	2
1489:	1	0	1	1	2	1	1	1
1497:	0	0	2	1	3	5	0	1
1505:	2	1	1	4	7	2	4	1
1513:	0	1	2	1	3	1	0	1
1521:	0	1	0	1	0	1	1	0
1529:	4	1	2	1	2	0	1	2
1537:	1	2	2	3	2	3	0	2
1545:	1	3	2	1	0	0	2	0
1553:	4	2	0	0	0	2	0	1
1561:	2	2	0	0	1	4	1	0
1569:	3	1	0	0	1	1	1	0
1577:	1	0	2	1	3	5	1	0
1585:	0	3	0	2	1	0	1	0
1593:	2	3	3	1	2	0	1	0
1601:	0	1	0	0	0	0	1	1
1609:	1	0	0	1	1	2	0	2
1617:	0	0	0	2	0	2	0	1
1625:	2	1	1	1	4	0	3	1
1633:	1	0	2	0	2	0	2	0
1641:	3	0	2	2	0	5	1	0
1649:	3	2	0	0	0	2	0	1
1657:	0	1	3	1	5	0	2	0

1665:	1	0	1	0	1	3	1	0

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Channel								
1673:	1	2	1	0	1	0	0	1
1681:	1	1	0	2	0	0	2	2
1689:	1	0	0	0	0	3	1	0
1697:	1	2	1	1	0	0	0	3
1705:	1	2	0	1	0	0	0	1
1713:	0	0	1	0	0	0	0	1
1721:	0	0	0	1	0	1	1	2
1729:	7	7	4	0	1	1	2	1
1737:	2	1	0	1	0	2	0	2
1745:	0	0	0	0	1	1	0	0
1753:	0	1	0	2	0	2	0	0
1761:	1	1	9	28	14	5	0	0
1769:	2	1	0	1	3	0	0	0
1777:	0	1	1	1	0	2	0	0
1785:	1	0	0	0	0	2	1	0
1793:	1	1	1	1	0	0	0	2
1801:	1	0	0	2	1	0	1	1
1809:	0	0	0	1	0	0	0	3
1817:	0	2	0	0	2	0	1	0
1825:	0	1	1	0	0	1	1	2
1833:	1	0	1	0	0	1	2	1
1841:	0	0	2	1	1	1	3	3
1849:	3	0	0	0	1	0	0	1
1857:	0	0	1	1	0	1	0	0
1865:	0	2	1	2	1	1	0	0
1873:	1	0	1	2	1	0	3	0
1881:	1	0	0	1	1	0	0	1
1889:	0	1	0	0	3	1	0	0
1897:	2	0	1	0	3	0	0	1
1905:	1	1	0	1	0	1	0	0
1913:	0	1	0	1	1	2	0	1
1921:	2	1	1	2	1	1	0	0
1929:	0	0	0	0	1	0	0	1
1937:	1	1	2	0	1	1	0	0
1945:	1	0	1	1	0	1	0	0
1953:	0	0	0	1	3	1	0	0
1961:	0	0	0	1	3	0	0	0
1969:	1	0	2	0	0	0	1	0
1977:	2	0	1	0	0	0	1	0
1985:	0	1	1	1	0	1	0	1
1993:	0	2	0	1	0	0	0	1
2001:	0	1	0	0	2	3	2	0
2009:	0	1	0	1	0	1	2	1
2017:	0	1	0	0	1	0	0	1
2025:	1	0	1	1	0	3	0	0
2033:	0	1	0	0	0	0	0	0
2041:	2	0	0	1	0	0	1	0
2049:	3	0	0	1	2	0	1	0
2057:	0	1	2	0	1	2	0	1
2065:	0	0	0	0	0	0	1	0
2073:	0	1	2	0	1	0	1	0
2081:	1	0	1	0	0	0	0	0
2089:	1	1	0	0	0	0	0	0

2097:	0	0	2	0	0	0	1	1

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Channel								
2105:	1	0	1	1	0	0	1	0
2113:	1	1	0	1	2	2	3	0
2121:	1	1	0	1	0	0	2	0
2129:	0	0	0	0	2	0	0	0
2137:	0	0	2	0	0	0	0	2
2145:	1	2	0	0	3	0	0	0
2153:	0	1	0	0	1	1	0	0
2161:	0	3	0	1	0	0	0	0
2169:	1	0	0	1	0	1	0	0
2177:	0	0	0	2	0	1	1	0
2185:	0	0	1	0	2	0	1	0
2193:	0	0	0	0	0	0	1	2
2201:	1	2	3	5	4	1	0	0
2209:	0	0	1	1	1	0	1	0
2217:	0	1	0	0	2	1	0	1
2225:	0	0	0	2	1	1	0	1
2233:	0	0	0	0	0	0	3	0
2241:	0	0	0	1	0	0	0	0
2249:	0	1	0	0	0	0	0	0
2257:	0	0	0	0	0	0	0	0
2265:	1	2	0	1	1	0	0	1
2273:	0	0	0	0	1	0	1	0
2281:	1	1	0	0	1	0	1	1
2289:	2	0	0	0	1	0	1	1
2297:	0	1	0	1	0	1	0	1
2305:	0	0	1	1	0	0	0	1
2313:	3	0	0	0	0	1	0	0
2321:	1	0	0	0	1	0	1	1
2329:	0	0	1	3	0	0	0	0
2337:	0	1	0	0	1	0	0	1
2345:	0	0	1	0	0	0	0	0
2353:	0	0	0	0	0	1	0	0
2361:	0	1	0	0	0	1	1	0
2369:	0	2	0	0	1	0	0	0
2377:	2	1	1	0	0	1	0	0
2385:	0	0	0	0	1	1	0	0
2393:	0	0	0	0	1	1	0	0
2401:	0	1	0	1	1	0	1	0
2409:	0	1	0	1	3	0	1	0
2417:	1	0	0	0	0	1	0	0
2425:	0	0	0	0	1	0	0	1
2433:	0	1	0	0	0	0	0	0
2441:	1	1	1	1	0	1	0	2
2449:	0	0	1	0	0	1	0	0
2457:	1	0	0	1	0	2	1	0
2465:	0	0	1	1	0	1	0	0
2473:	0	0	0	0	0	0	0	0
2481:	1	1	0	0	0	0	0	0
2489:	1	0	0	1	0	0	0	0
2497:	0	0	0	0	1	1	0	0
2505:	0	0	0	0	2	0	0	0
2513:	0	1	0	0	1	1	0	0
2521:	0	1	0	0	0	0	0	0

2529:	1	0	0	1	1	1	0	0

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Channel								
2537:	0	1	0	0	0	0	1	0
2545:	0	0	3	0	0	0	1	0
2553:	0	0	0	0	0	1	0	0
2561:	0	0	0	1	0	0	0	0
2569:	0	1	0	0	0	0	0	0
2577:	0	0	0	0	0	0	1	0
2585:	0	0	0	0	0	0	0	0
2593:	0	1	0	0	0	0	0	0
2601:	0	1	0	1	0	0	0	0
2609:	1	0	2	2	4	9	4	0
2617:	0	0	1	2	0	0	0	0
2625:	1	0	0	0	0	0	0	0
2633:	0	0	0	0	0	0	0	1
2641:	0	0	0	0	0	0	0	0
2649:	0	0	1	0	0	0	0	0
2657:	0	0	0	0	0	0	1	0
2665:	1	0	2	1	1	0	0	1
2673:	1	0	0	0	0	1	0	1
2681:	0	0	1	0	0	0	0	0
2689:	0	0	0	0	1	0	0	0
2697:	1	0	0	0	1	1	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	1	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	2	0	0
2737:	0	0	0	0	1	0	0	1
2745:	0	1	1	1	0	0	0	0
2753:	0	0	0	0	1	0	0	0
2761:	0	1	1	0	1	0	1	1
2769:	0	0	1	0	0	0	0	1
2777:	0	0	0	0	0	0	0	0
2785:	1	0	2	0	0	1	0	1
2793:	1	0	2	0	3	1	1	0
2801:	0	0	0	0	0	0	1	0
2809:	0	1	0	0	0	0	0	0
2817:	1	0	0	0	0	1	0	1
2825:	0	0	0	0	0	0	0	1
2833:	1	0	1	0	0	0	0	0
2841:	0	0	0	1	0	0	0	1
2849:	0	0	0	0	1	1	1	1
2857:	0	0	1	0	1	0	0	0
2865:	0	0	0	2	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	1	0	1	1	0	0	0	0
2889:	0	0	0	0	0	2	0	2
2897:	1	0	0	0	0	0	0	1
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	1	0	0	1	0	0
2929:	0	0	0	1	0	0	0	0
2937:	0	2	0	0	0	0	0	0
2945:	0	0	0	1	0	0	1	0
2953:	0	0	0	0	0	0	0	0

2961:	1	0	0	0	0	0	0	0

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Channel								
2969:	0	0	1	0	0	0	1	0
2977:	1	1	1	1	0	0	0	0
2985:	0	0	0	0	0	0	1	0
2993:	0	0	0	1	1	0	0	0
3001:	0	1	1	0	1	0	0	0
3009:	0	0	0	0	0	2	0	0
3017:	1	1	0	1	0	0	0	0
3025:	0	0	0	0	1	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	1	0	1	0	0
3049:	0	0	1	0	0	1	1	0
3057:	0	1	0	1	0	1	0	0
3065:	1	0	0	0	0	0	0	0
3073:	0	0	0	0	0	1	0	0
3081:	0	0	0	0	0	1	0	0
3089:	0	0	0	0	2	0	0	0
3097:	0	0	0	0	1	1	1	0
3105:	0	1	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	2	0	0	0	0	2
3129:	0	0	0	0	0	0	0	0
3137:	0	1	1	0	0	0	1	0
3145:	1	0	0	0	1	0	0	0
3153:	0	0	0	2	0	0	0	0
3161:	0	0	1	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	1	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	0	1	0	0	0
3201:	1	0	0	0	0	0	0	1
3209:	0	1	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	1	0	0	0	0	0	0
3257:	1	0	0	1	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	1	0	0	0
3281:	0	0	0	0	2	0	0	0
3289:	0	1	0	0	0	0	1	0
3297:	1	1	0	0	0	0	2	0
3305:	0	0	1	0	0	0	0	0
3313:	0	3	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	1	0	0	2	1	0	0	0
3345:	0	1	0	0	0	0	2	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	1	0	0	1
3369:	0	0	0	0	1	0	0	0
3377:	0	1	0	1	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

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Channel								
3401:	0	0	0	0	0	0	0	1
3409:	0	0	0	0	0	0	1	0
3417:	0	1	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	1	1	0	0	0	1
3449:	0	1	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	1	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	1	0	0	0	0	0	0	0
3489:	0	1	1	0	0	0	1	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	1	0	1	0	0
3537:	0	1	1	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	1	0	0	2	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	1	0	0	0
3577:	1	1	0	0	0	0	0	0
3585:	0	1	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	1	0	0
3617:	0	0	0	0	0	1	0	0
3625:	0	0	0	0	0	1	0	0
3633:	0	0	0	0	0	0	1	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	1	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	1	0
3681:	0	0	0	0	1	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	1	0	1	1	0	0
3705:	0	0	0	0	0	0	1	0
3713:	0	0	0	1	0	0	1	0
3721:	0	0	0	1	1	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	2	0	0	0	0	0
3753:	1	0	1	0	0	0	0	0
3761:	2	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	0	0	0	1
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	0	1	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	1	0	0
3817:	0	0	0	1	0	0	0	0

3825:	0	0	0	0	2	0	0	0

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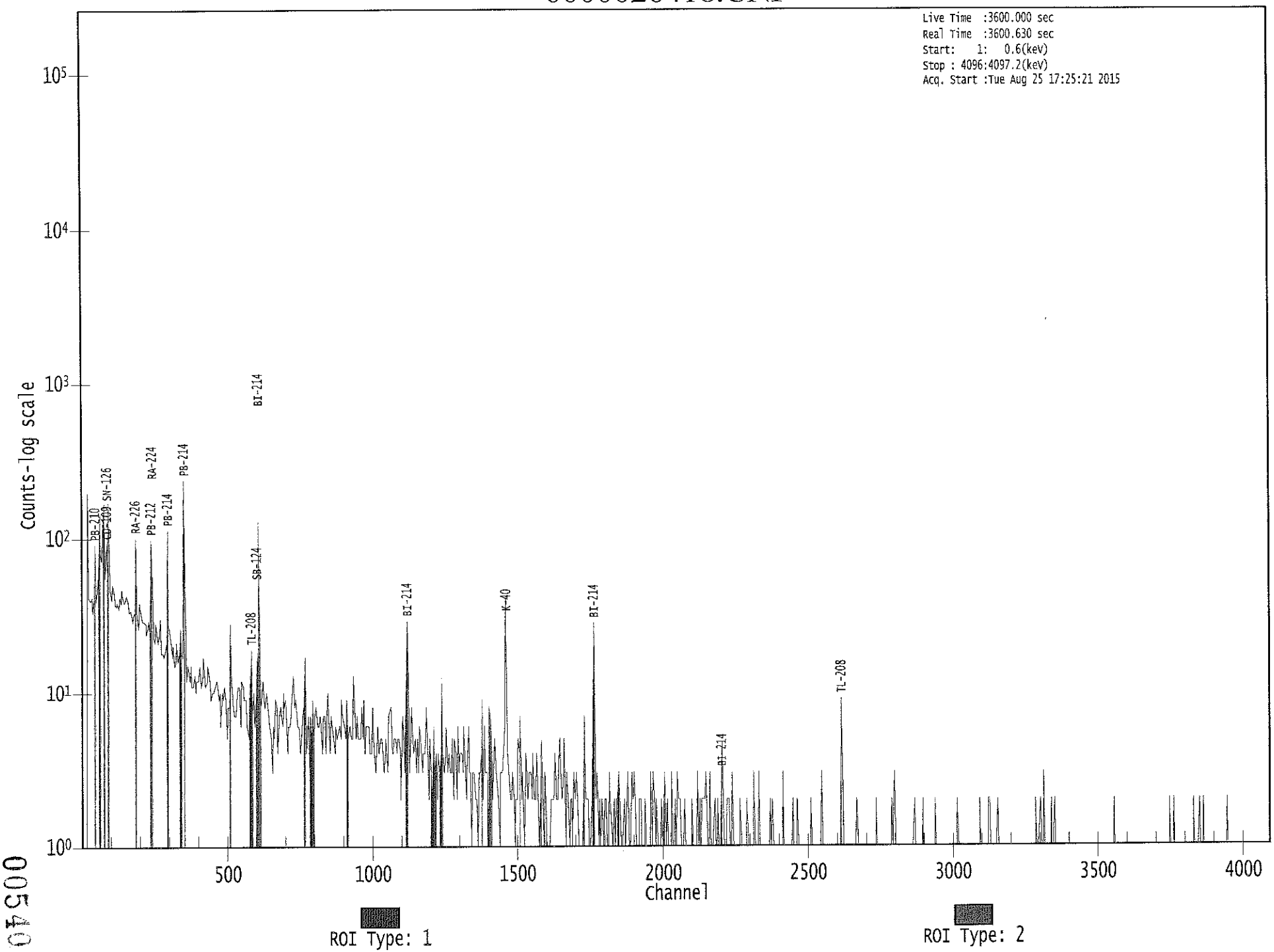
Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	2	0	0	0	0	0
3857:	0	0	0	0	0	0	0	2
3865:	0	0	0	0	0	1	0	1
3873:	0	1	0	0	0	1	0	1
3881:	0	0	0	1	0	0	0	0
3889:	0	0	0	0	0	0	1	0
3897:	1	0	0	0	0	0	0	1
3905:	0	0	0	0	0	0	0	0
3913:	1	1	0	0	0	0	0	0
3921:	0	0	0	0	0	1	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	1	0	0	0	0	1
3945:	2	0	0	0	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	1	0	0	0	0	0	0	0
4001:	0	1	0	0	0	0	0	1
4009:	0	0	0	1	0	0	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	0	0	0	0	0	1
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	1	0	1	0
4073:	0	0	0	0	0	0	1	1
4081:	0	0	0	0	0	0	0	0
4089:	1	1	0	1	1	0	0	0

0000026418.CNF



00540

KB 9/25/15

Apex-Gamma

Analysis Report for 1508002-09
DUPLICATE 5

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-09
Sample Description	: DUPLICATE 5
Sample Type	: SOIL
Sample Size	: 6.303E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:40:38AM
Acquisition Started	: 8/25/2015 5:25:28PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3611.5 seconds
Dead Time	: 0.32 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26419

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

00541

Analysis Report for 1508002-09

DUPLICATE 5

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:25:42PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	76.49	76.70	0.0000	0.00
2	92.72	92.93	0.0000	0.00
3	113.73	113.93	0.0000	0.00
4	143.35	143.52	0.0000	0.00
5	185.87	186.02	0.0000	0.00
6	238.70	238.83	0.0000	0.00
7	242.05	242.17	0.0000	0.00
8	262.76	262.87	0.0000	0.00
9	295.50	295.60	0.0000	0.00
10	338.25	338.33	0.0000	0.00
11	352.10	352.17	0.0000	0.00
12	439.38	439.41	0.0000	0.00
13	480.35	480.36	0.0000	0.00
14	511.43	511.43	0.0000	0.00
15	609.59	609.54	0.0000	0.00
16	912.31	912.11	0.0000	0.00
17	936.47	936.27	0.0000	0.00
18	976.30	976.07	0.0000	0.00
19	1025.20	1024.95	0.0000	0.00
20	1058.30	1058.04	0.0000	0.00
21	1120.72	1120.43	0.0000	0.00
22	1155.37	1155.07	0.0000	0.00
23	1239.11	1238.78	0.0000	0.00
24	1309.10	1308.74	0.0000	0.00
25	1377.68	1377.29	0.0000	0.00
26	1461.67	1461.25	0.0000	0.00
27	1509.57	1509.13	0.0000	0.00
28	1563.06	1562.60	0.0000	0.00
29	1619.85	1619.37	0.0000	0.00
30	1731.17	1730.65	0.0000	0.00
31	1765.35	1764.81	0.0000	0.00
32	1848.06	1847.50	0.0000	0.00
33	2205.20	2204.53	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-09

DUPLICATE 5

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	76.49	73 -	79	76.70	3.58E+02	81.53	9.48E+02	3.46
	2	92.72	90 -	95	92.93	1.53E+02	63.73	6.77E+02	1.62
	3	113.73	112 -	117	113.93	4.56E+01	42.88	3.29E+02	0.95
	4	143.35	140 -	147	143.52	5.60E+01	50.87	3.90E+02	5.36
	5	185.87	182 -	190	186.02	1.19E+02	58.11	4.48E+02	1.78
M	6	238.70	233 -	246	238.83	1.21E+02	37.42	1.71E+02	1.89
m	7	242.05	233 -	246	242.17	9.82E+01	40.55	1.63E+02	1.89
	8	262.76	260 -	267	262.87	3.64E+01	36.33	1.95E+02	1.62
	9	295.50	293 -	298	295.60	2.02E+02	37.30	1.16E+02	2.07
	10	338.25	335 -	343	338.33	2.85E+01	33.35	1.55E+02	2.33
	11	352.10	348 -	355	352.17	2.70E+02	46.48	1.80E+02	1.73
	12	439.38	436 -	442	439.41	2.20E+01	22.57	7.61E+01	2.45
	13	480.35	478 -	483	480.36	1.43E+01	17.32	4.93E+01	3.08
	14	511.43	506 -	516	511.43	8.97E+01	34.97	1.15E+02	2.11
	15	609.59	606 -	613	609.54	2.22E+02	34.58	5.05E+01	1.94
	16	912.31	908 -	916	912.11	1.52E+01	19.46	4.75E+01	1.59
	17	936.47	929 -	944	936.27	2.74E+01	22.54	3.91E+01	3.14
	18	976.30	974 -	979	976.07	8.12E+00	8.89	9.77E+00	1.55
	19	1025.20	1018 -	1032	1024.95	1.60E+01	20.33	3.40E+01	2.83
	20	1058.30	1054 -	1065	1058.04	1.41E+01	18.65	3.78E+01	1.10
	21	1120.72	1116 -	1123	1120.43	4.69E+01	17.55	2.02E+01	2.24
	22	1155.37	1150 -	1159	1155.07	1.40E+01	14.00	2.00E+01	2.07
	23	1239.11	1233 -	1244	1238.78	2.82E+01	18.76	2.96E+01	3.86
	24	1309.10	1307 -	1310	1308.74	6.89E+00	6.63	4.22E+00	1.26
	25	1377.68	1374 -	1379	1377.29	1.44E+01	8.54	3.25E+00	2.10
	26	1461.67	1456 -	1467	1461.25	5.80E+01	22.80	3.60E+01	2.61
	27	1509.57	1506 -	1511	1509.13	7.38E+00	9.38	1.12E+01	1.11
	28	1563.06	1559 -	1565	1562.60	1.00E+01	6.32	0.00E+00	3.88
	29	1619.85	1616 -	1621	1619.37	4.43E+00	6.78	5.14E+00	1.56
	30	1731.17	1728 -	1732	1730.65	4.75E+00	5.50	2.50E+00	1.10
	31	1765.35	1760 -	1769	1764.81	3.34E+01	16.49	1.91E+01	2.89
	32	1848.06	1844 -	1851	1847.50	1.20E+01	6.93	0.00E+00	2.00
	33	2205.20	2201 -	2207	2204.53	9.54E+00	8.75	6.92E+00	1.42

Analysis Report for 1508002-09

DUPLICATE 5

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	76.49	73 -	79	3.58E+02	81.53	9.48E+02	5.94E+01
	2	92.72	90 -	95	1.53E+02	63.73	6.77E+02	4.83E+01
	3	113.73	112 -	117	4.56E+01	42.88	3.29E+02	3.35E+01
	4	143.35	140 -	147	5.60E+01	50.87	3.90E+02	4.00E+01
	5	185.87	182 -	190	1.19E+02	58.11	4.48E+02	4.43E+01
M	6	238.70	233 -	246	1.21E+02	37.42	1.71E+02	2.15E+01
m	7	242.05	233 -	246	9.82E+01	40.55	1.63E+02	2.10E+01
	8	262.76	260 -	267	3.64E+01	36.33	1.95E+02	2.82E+01
	9	295.50	293 -	298	2.02E+02	37.30	1.16E+02	1.98E+01
	10	338.25	335 -	343	2.85E+01	33.35	1.55E+02	2.60E+01
	11	352.10	348 -	355	2.70E+02	46.48	1.80E+02	2.70E+01
	12	439.38	436 -	442	2.20E+01	22.57	7.61E+01	1.69E+01
	13	480.35	478 -	483	1.43E+01	17.32	4.93E+01	1.28E+01
	14	511.43	506 -	516	8.97E+01	34.97	1.15E+02	2.42E+01
	15	609.59	606 -	613	2.22E+02	34.58	5.05E+01	1.44E+01
	16	912.31	908 -	916	1.52E+01	19.46	4.75E+01	1.47E+01
	17	936.47	929 -	944	2.74E+01	22.54	3.91E+01	1.64E+01
	18	976.30	974 -	979	8.12E+00	8.89	9.77E+00	5.61E+00
	19	1025.20	1018 -	1032	1.60E+01	20.33	3.40E+01	1.54E+01
	20	1058.30	1054 -	1065	1.41E+01	18.65	3.78E+01	1.40E+01
	21	1120.72	1116 -	1123	4.69E+01	17.55	2.02E+01	9.02E+00
	22	1155.37	1150 -	1159	1.40E+01	14.00	2.00E+01	9.73E+00
	23	1239.11	1233 -	1244	2.82E+01	18.76	2.96E+01	1.27E+01
	24	1309.10	1307 -	1310	6.89E+00	6.63	4.22E+00	3.33E+00
	25	1377.68	1374 -	1379	1.44E+01	8.54	3.25E+00	3.24E+00
	26	1461.67	1456 -	1467	5.80E+01	22.80	3.60E+01	1.39E+01
	27	1509.57	1506 -	1511	7.38E+00	9.38	1.12E+01	6.29E+00
	28	1563.06	1559 -	1565	1.00E+01	6.32	0.00E+00	0.00E+00
	29	1619.85	1616 -	1621	4.43E+00	6.78	5.14E+00	4.37E+00
	30	1731.17	1728 -	1732	4.75E+00	5.50	2.50E+00	2.76E+00
	31	1765.35	1760 -	1769	3.34E+01	16.49	1.91E+01	9.66E+00

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1848.06	1844 -	1851	1.20E+01	6.93	0.00E+00	0.00E+00
33	2205.20	2201 -	2207	9.54E+00	8.75	6.92E+00	5.09E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	76.49	73 -	79	76.70	3.58E+02	81.53	9.48E+02	.....
	2	92.72	90 -	95	92.93	1.53E+02	63.73	6.77E+02	GA-67
	3	113.73	112 -	117	113.93	4.56E+01	42.88	3.29E+02	.....
	4	143.35	140 -	147	143.52	5.60E+01	50.87	3.90E+02	U-235
	5	185.87	182 -	190	186.02	1.19E+02	58.11	4.48E+02	RA-226
M	6	238.70	233 -	246	238.83	1.21E+02	37.42	1.71E+02	PB-212
m	7	242.05	233 -	246	242.17	9.82E+01	40.55	1.63E+02	.....
	8	262.76	260 -	267	262.87	3.64E+01	36.33	1.95E+02	BI-210M CD-113M
	9	295.50	293 -	298	295.60	2.02E+02	37.30	1.16E+02	PB-214
	10	338.25	335 -	343	338.33	2.85E+01	33.35	1.55E+02	AC-228
	11	352.10	348 -	355	352.17	2.70E+02	46.48	1.80E+02	PB-214
	12	439.38	436 -	442	439.41	2.20E+01	22.57	7.61E+01	.....
	13	480.35	478 -	483	480.36	1.43E+01	17.32	4.93E+01	.....
	14	511.43	506 -	516	511.43	8.97E+01	34.97	1.15E+02	.....
	15	609.59	606 -	613	609.54	2.22E+02	34.58	5.05E+01	BI-214
	16	912.31	908 -	916	912.11	1.52E+01	19.46	4.75E+01	LU-172
	17	936.47	929 -	944	936.27	2.74E+01	22.54	3.91E+01	.....
	18	976.30	974 -	979	976.07	8.12E+00	8.89	9.77E+00	.....
	19	1025.20	1018 -	1032	1024.95	1.60E+01	20.33	3.40E+01	.....
	20	1058.30	1054 -	1065	1058.04	1.41E+01	18.65	3.78E+01	.....
	21	1120.72	1116 -	1123	1120.43	4.69E+01	17.55	2.02E+01	SC-46 BI-214 TA-182

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
22	1155.37	1150 -	1159	1155.07	1.40E+01	14.00	2.00E+01	.....
23	1239.11	1233 -	1244	1238.78	2.82E+01	18.76	2.96E+01	CO-56
24	1309.10	1307 -	1310	1308.74	6.89E+00	6.63	4.22E+00	.....
25	1377.68	1374 -	1379	1377.29	1.44E+01	8.54	3.25E+00	.....
26	1461.67	1456 -	1467	1461.25	5.80E+01	22.80	3.60E+01	K-40
27	1509.57	1506 -	1511	1509.13	7.38E+00	9.38	1.12E+01	.....
28	1563.06	1559 -	1565	1562.60	1.00E+01	6.32	0.00E+00	.....
29	1619.85	1616 -	1621	1619.37	4.43E+00	6.78	5.14E+00	BI-212
30	1731.17	1728 -	1732	1730.65	4.75E+00	5.50	2.50E+00	.....
31	1765.35	1760 -	1769	1764.81	3.34E+01	16.49	1.91E+01	BI-214
32	1848.06	1844 -	1851	1847.50	1.20E+01	6.93	0.00E+00	.....
33	2205.20	2201 -	2207	2204.53	9.54E+00	8.75	6.92E+00	BI-214

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	76.49	3.58E+02	81.53	2.38E-02	2.14E-03
	2	92.72	1.53E+02	63.73	2.44E-02	2.41E-03
	3	113.73	4.56E+01	42.88	2.36E-02	1.93E-03
	4	143.35	5.60E+01	50.87	2.14E-02	1.63E-03
	5	185.87	1.19E+02	58.11	1.83E-02	1.42E-03
M	6	238.70	1.21E+02	37.42	1.52E-02	1.18E-03
m	7	242.05	9.82E+01	40.55	1.51E-02	1.17E-03
	8	262.76	3.64E+01	36.33	1.41E-02	1.07E-03
	9	295.50	2.02E+02	37.30	1.28E-02	9.74E-04
	10	338.25	2.85E+01	33.35	1.14E-02	9.13E-04
	11	352.10	2.70E+02	46.48	1.11E-02	8.93E-04
	12	439.38	2.20E+01	22.57	9.14E-03	7.90E-04
	13	480.35	1.43E+01	17.32	8.45E-03	7.49E-04
	14	511.43	8.97E+01	34.97	8.01E-03	7.18E-04
	15	609.59	2.22E+02	34.58	6.87E-03	6.20E-04
	16	912.31	1.52E+01	19.46	4.85E-03	3.72E-04
	17	936.47	2.74E+01	22.54	4.74E-03	3.68E-04
	18	976.30	8.12E+00	8.89	4.58E-03	3.60E-04

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
19	1025.20	1.60E+01	20.33	4.39E-03	3.51E-04
20	1058.30	1.41E+01	18.65	4.28E-03	3.45E-04
21	1120.72	4.69E+01	17.55	4.08E-03	3.33E-04
22	1155.37	1.40E+01	14.00	3.97E-03	3.27E-04
23	1239.11	2.82E+01	18.76	3.75E-03	3.09E-04
24	1309.10	6.89E+00	6.63	3.59E-03	2.94E-04
25	1377.68	1.44E+01	8.54	3.45E-03	2.82E-04
26	1461.67	5.80E+01	22.80	3.29E-03	2.69E-04
27	1509.57	7.38E+00	9.38	3.21E-03	2.62E-04
28	1563.06	1.00E+01	6.32	3.13E-03	2.54E-04
29	1619.85	4.43E+00	6.78	3.04E-03	2.46E-04
30	1731.17	4.75E+00	5.50	2.90E-03	2.29E-04
31	1765.35	3.34E+01	16.49	2.86E-03	2.24E-04
32	1848.06	1.20E+01	6.93	2.77E-03	2.13E-04
33	2205.20	9.54E+00	8.75	2.46E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	76.49	3.58E+02	81.53			3.58E+02	8.15E+01
	2	92.72	1.53E+02	63.73	8.34E+01	1.60E+01	6.93E+01	6.57E+01
	3	113.73	4.56E+01	42.88			4.56E+01	4.29E+01
	4	143.35	5.60E+01	50.87	7.15E+00	2.61E+00	4.89E+01	5.09E+01
	5	185.87	1.19E+02	58.11	3.91E+01	6.36E+00	7.99E+01	5.85E+01
M	6	238.70	1.21E+02	37.42	1.27E+01	5.67E+00	1.08E+02	3.78E+01
m	7	242.05	9.82E+01	40.55			9.82E+01	4.05E+01
	8	262.76	3.64E+01	36.33			3.64E+01	3.63E+01
	9	295.50	2.02E+02	37.30	3.82E+00	5.43E+00	1.98E+02	3.77E+01
	10	338.25	2.85E+01	33.35			2.85E+01	3.34E+01
	11	352.10	2.70E+02	46.48	6.42E+00	4.54E+00	2.64E+02	4.67E+01
	12	439.38	2.20E+01	22.57			2.20E+01	2.26E+01
	13	480.35	1.43E+01	17.32			1.43E+01	1.73E+01
	14	511.43	8.97E+01	34.97	5.53E+01	4.60E+00	3.44E+01	3.53E+01
	15	609.59	2.22E+02	34.58	4.69E+00	3.03E+00	2.17E+02	3.47E+01

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
16	912.31	1.52E+01	19.46			1.52E+01	1.95E+01
17	936.47	2.74E+01	22.54			2.74E+01	2.25E+01
18	976.30	8.12E+00	8.89			8.12E+00	8.89E+00
19	1025.20	1.60E+01	20.33			1.60E+01	2.03E+01
20	1058.30	1.41E+01	18.65			1.41E+01	1.87E+01
21	1120.72	4.69E+01	17.55			4.69E+01	1.75E+01
22	1155.37	1.40E+01	14.00			1.40E+01	1.40E+01
23	1239.11	2.82E+01	18.76			2.82E+01	1.88E+01
24	1309.10	6.89E+00	6.63			6.89E+00	6.63E+00
25	1377.68	1.44E+01	8.54			1.44E+01	8.54E+00
26	1461.67	5.80E+01	22.80			5.80E+01	2.28E+01
27	1509.57	7.38E+00	9.38			7.38E+00	9.38E+00
28	1563.06	1.00E+01	6.32			1.00E+01	6.32E+00
29	1619.85	4.43E+00	6.78			4.43E+00	6.78E+00
30	1731.17	4.75E+00	5.50			4.75E+00	5.50E+00
31	1765.35	3.34E+01	16.49			3.34E+01	1.65E+01
32	1848.06	1.20E+01	6.93			1.20E+01	6.93E+00
33	2205.20	9.54E+00	8.75			9.54E+00	8.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	76.49	3.58E+02	81.53			3.58E+02	8.15E+01
	2	92.72	1.53E+02	63.73	8.34E+01	1.60E+01	6.93E+01	6.57E+01
	3	113.73	4.56E+01	42.88			4.56E+01	4.29E+01
	4	143.35	5.60E+01	50.87	7.15E+00	2.61E+00	4.89E+01	5.09E+01
	5	185.87	1.19E+02	58.11	3.91E+01	6.36E+00	7.99E+01	5.85E+01
M	6	238.70	1.21E+02	37.42	1.27E+01	5.67E+00	1.08E+02	3.78E+01
m	7	242.05	9.82E+01	40.55			9.82E+01	4.05E+01
	8	262.76	3.64E+01	36.33			3.64E+01	3.63E+01
	9	295.50	2.02E+02	37.30	3.82E+00	5.43E+00	1.98E+02	3.77E+01
	10	338.25	2.85E+01	33.35			2.85E+01	3.34E+01

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
11	352.10	2.70E+02	46.48	6.42E+00	4.54E+00	2.64E+02	4.67E+01
12	439.38	2.20E+01	22.57			2.20E+01	2.26E+01
13	480.35	1.43E+01	17.32			1.43E+01	1.73E+01
14	511.43	8.97E+01	34.97	5.53E+01	4.60E+00	3.44E+01	3.53E+01
15	609.59	2.22E+02	34.58	4.69E+00	3.03E+00	2.17E+02	3.47E+01
16	912.31	1.52E+01	19.46			1.52E+01	1.95E+01
17	936.47	2.74E+01	22.54			2.74E+01	2.25E+01
18	976.30	8.12E+00	8.89			8.12E+00	8.89E+00
19	1025.20	1.60E+01	20.33			1.60E+01	2.03E+01
20	1058.30	1.41E+01	18.65			1.41E+01	1.87E+01
21	1120.72	4.69E+01	17.55			4.69E+01	1.75E+01
22	1155.37	1.40E+01	14.00			1.40E+01	1.40E+01
23	1239.11	2.82E+01	18.76			2.82E+01	1.88E+01
24	1309.10	6.89E+00	6.63			6.89E+00	6.63E+00
25	1377.68	1.44E+01	8.54			1.44E+01	8.54E+00
26	1461.67	5.80E+01	22.80			5.80E+01	2.28E+01
27	1509.57	7.38E+00	9.38			7.38E+00	9.38E+00
28	1563.06	1.00E+01	6.32			1.00E+01	6.32E+00
29	1619.85	4.43E+00	6.78			4.43E+00	6.78E+00
30	1731.17	4.75E+00	5.50			4.75E+00	5.50E+00
31	1765.35	3.34E+01	16.49			3.34E+01	1.65E+01
32	1848.06	1.20E+01	6.93			1.20E+01	6.93E+00
33	2205.20	9.54E+00	8.75			9.54E+00	8.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.888	1460.81	*	10.67	1.97E+00	7.91E-01
GA-67	0.382	93.31	*	35.70	2.54E+01	9.46E+01
		208.95		2.24		
		300.22		16.00		
CD-113M	0.868	263.70	*	0.02	1.34E+02	1.34E+02
BI-210M	0.419	262.00	*	45.00	6.83E-02	6.84E-02
		300.00		23.00		
PB-212	0.895	238.63	*	44.60	1.90E-01	6.80E-02

Analysis Report for 1508002-09

DUPLICATE 5

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-212	0.895	300.09		3.41		
BI-214	0.957	609.31	*	46.30	8.13E-01	1.49E-01
		1120.29	*	15.10	9.07E-01	3.48E-01
		1764.49	*	15.80	8.82E-01	4.41E-01
		2204.22	*	4.98	9.27E-01	8.53E-01
PB-214	0.992	295.21	*	19.19	9.61E-01	1.97E-01
		351.92	*	37.19	7.64E-01	1.49E-01
RA-226	0.981	186.21	*	3.28	1.59E+00	3.13E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:42PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.49	9.94606E-02	11.39		
	3	113.73	1.26759E-02	46.99		
	4	143.35	1.35822E-02	52.09	Tol.	U-235
m	7	242.05	2.72809E-02	20.64		
	10	338.25	7.90356E-03	58.61	Tol.	AC-228
	12	439.38	6.10185E-03	51.38	D-Esc	
	13	480.35	3.98148E-03	60.42		
	14	511.43	9.55996E-03	51.25		
	16	912.31	4.23077E-03	63.89	Tol.	LU-172
	17	936.47	7.61820E-03	41.09		
	18	976.30	2.25427E-03	54.76		
	19	1025.20	4.44444E-03	63.53		
	20	1058.30	3.91414E-03	66.19		
	22	1155.37	3.88889E-03	50.00		
	23	1239.11	7.83915E-03	33.24	Tol.	CO-56
	24	1309.10	1.91358E-03	48.14		
	25	1377.68	3.99306E-03	29.72		
	27	1509.57	2.05128E-03	63.52		
	28	1563.06	2.77778E-03	31.62		
	29	1619.85	1.23016E-03	76.57	Tol.	BI-212
	30	1731.17	1.31944E-03	57.89	Sum	

Analysis Report for 1508002-09
DUPLICATE 5

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
32	1848.06	3.33333E-03	28.87		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.88	1460.81	*	10.67	1.97E+00	7.91E-01
GA-67	0.38	93.31	*	35.70	2.54E+01	9.46E+01
		208.95		2.24		
		300.22		16.00		
CD-113M	0.86	263.70	*	0.02	1.34E+02	1.34E+02
BI-210M	0.41	262.00	*	45.00	6.83E-02	6.84E-02
		300.00		23.00		
PB-212	0.89	238.63	*	44.60	1.90E-01	6.80E-02
		300.09		3.41		
BI-214	0.95	609.31	*	46.30	8.13E-01	1.49E-01
		1120.29	*	15.10	9.07E-01	3.48E-01
		1764.49	*	15.80	8.82E-01	4.41E-01
		2204.22	*	4.98	9.27E-01	8.53E-01
PB-214	0.99	295.21	*	19.19	9.61E-01	1.97E-01
		351.92	*	37.19	7.64E-01	1.49E-01
RA-226	0.98	186.21	*	3.28	1.59E+00	3.13E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-09

DUPLICATE 5

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.888	1.97E+00	7.91E-01	
	GA-67	0.382	2.54E+01	9.46E+01	
?	CD-113M	0.868	1.34E+02	1.34E+02	
?	BI-210M	0.419	6.83E-02	6.84E-02	
	PB-212	0.895	1.90E-01	6.80E-02	
	BI-214	0.957	8.35E-01	1.29E-01	
	PB-214	0.992	8.35E-01	1.19E-01	
	RA-226	0.981	1.59E+00	3.13E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-09

DUPLICATE 5

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:42PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.49	9.94606E-02	11.39		
	3	113.73	1.26759E-02	46.99		
	4	143.35	1.35822E-02	52.09	Tol.	U-235
m	7	242.05	2.72809E-02	20.64		
	10	338.25	7.90356E-03	58.61	Tol.	AC-228
	12	439.38	6.10185E-03	51.38	D-Esc	
	13	480.35	3.98148E-03	60.42		
	14	511.43	9.55996E-03	51.25		
	16	912.31	4.23077E-03	63.89	Tol.	LU-172
	17	936.47	7.61820E-03	41.09		
	18	976.30	2.25427E-03	54.76		
	19	1025.20	4.44444E-03	63.53		
	20	1058.30	3.91414E-03	66.19		
	22	1155.37	3.88889E-03	50.00		
	23	1239.11	7.83915E-03	33.24	Tol.	CO-56
	24	1309.10	1.91358E-03	48.14		
	25	1377.68	3.99306E-03	29.72		
	27	1509.57	2.05128E-03	63.52		
	28	1563.06	2.77778E-03	31.62		
	29	1619.85	1.23016E-03	76.57	Tol.	BI-212
	30	1731.17	1.31944E-03	57.89	Sum	
	32	1848.06	3.33333E-03	28.87		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	5.82E-02	6.80E-01	6.80E-01
+	NA-22	1274.54		99.94	-1.78E-02	7.43E-02	7.43E-02
+	NA-24	1368.53		99.99	1.36E+11	1.87E+11	3.12E+11
		2754.09		99.86	2.54E+10		1.87E+11
+	AL-26	1808.65		99.76	1.56E-02	5.57E-02	5.57E-02
+	K-40	1460.81	*	10.67	1.97E+00	1.04E+00	1.04E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	4.80E-03	5.01E-02	5.01E-02
		78.34		96.00	-7.33E-03		5.93E-02
+	SC-46	889.25		99.98	-6.79E-02	6.54E-02	6.54E-02
		1120.51		99.99	1.52E-01		1.36E-01
+	V-48	983.52		99.98	7.47E-02	1.93E-01	1.93E-01
		1312.10		97.50	-7.83E-02		2.40E-01
+	CR-51	320.08		9.83	-6.81E-04	8.95E-01	8.95E-01
+	MN-54	834.83		99.97	-3.75E-03	6.70E-02	6.70E-02
+	CO-56	846.75		99.96	3.46E-02	8.20E-02	8.20E-02
		1037.75		14.03	1.87E-01		5.25E-01
		1238.25		67.00	8.65E-02		1.73E-01
		1771.40		15.51	0.00E+00		5.39E-01
		2598.48		16.90	-1.32E-02		3.67E-01
+	CO-57	122.06		85.51	8.75E-03	4.03E-02	4.03E-02
		136.48		10.60	-9.38E-02		3.18E-01
+	CO-58	810.76		99.40	1.06E-02	6.64E-02	6.64E-02
+	FE-59	1099.22		56.50	-5.62E-02	1.44E-01	1.44E-01
		1291.56		43.20	3.49E-02		2.63E-01
+	CO-60	1173.22		100.00	3.66E-02	7.36E-02	7.36E-02
		1332.49		100.00	4.76E-02		8.50E-02
+	ZN-65	1115.52		50.75	2.60E-02	1.20E-01	1.20E-01
+	GA-67	93.31	*	35.70	2.54E+01	3.93E+01	3.93E+01
		208.95		2.24	-1.23E+02		5.02E+02
		300.22		16.00	-1.56E+01		7.95E+01
+	SE-75	121.11		16.70	1.41E-01	6.36E-02	2.31E-01
		136.00		59.20	7.57E-03		6.36E-02
		264.65		59.80	-8.24E-03		8.84E-02
		279.53		25.20	-3.28E-02		1.85E-01
		400.65		11.40	7.72E-02		5.19E-01
+	RB-82	776.52		13.00	1.91E-01	8.57E-01	8.57E-01
+	RB-83	520.41		46.00	-8.79E-03	1.33E-01	1.33E-01
		529.64		30.30	-7.82E-02		1.84E-01
		552.65		16.40	-4.41E-02		3.58E-01
+	KR-85	513.99		0.43	1.57E+01	1.72E+01	1.72E+01
+	SR-85	513.99		99.27	9.06E-02	9.91E-02	9.91E-02
+	Y-88	898.02		93.40	3.25E-03	5.51E-02	8.28E-02
		1836.01		99.38	-8.53E-03		5.51E-02
+	NB-93M	16.57		9.43	1.37E+01	5.83E+01	5.83E+01
+	NB-94	702.63		100.00	7.09E-04	5.43E-02	6.01E-02
		871.10		100.00	-7.46E-03		5.43E-02

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	6.30E-02	1.22E-01	1.22E-01
+	NB-95M	235.69		25.00	1.65E+01	3.38E+01	3.38E+01
+	ZR-95	724.18		43.70	4.14E-03	1.26E-01	1.90E-01
		756.72		55.30	5.14E-03		1.26E-01
+	MO-99	181.06		6.20	-9.35E+01	3.46E+02	4.23E+02
		739.58		12.80	5.66E+01		3.46E+02
		778.00		4.50	3.17E+01		8.65E+02
+	RU-103	497.08		89.00	1.13E-02	8.97E-02	8.97E-02
+	RU-106	621.84		9.80	-1.95E-01	4.91E-01	4.91E-01
+	AG-108M	433.93		89.90	-8.63E-03	5.06E-02	5.06E-02
		614.37		90.40	7.82E-03		6.75E-02
		722.95		90.50	-3.59E-02		6.27E-02
+	CD-109	88.03		3.72	6.28E-02	1.27E+00	1.27E+00
+	AG-110M	657.75		93.14	-4.13E-02	5.94E-02	5.94E-02
		677.61		10.53	1.68E-01		5.95E-01
		706.67		16.46	2.05E-01		3.85E-01
		763.93		21.98	-2.08E-01		2.87E-01
		884.67		71.63	4.31E-02		1.01E-01
		1384.27		23.94	3.12E-02		3.32E-01
+	CD-113M	263.70	*	0.02	1.34E+02	2.18E+02	2.18E+02
+	SN-113	255.12		1.93	1.23E+00	8.26E-02	2.75E+00
		391.69		64.90	-5.00E-02		8.26E-02
+	TE123M	159.00		84.10	-9.11E-03	4.91E-02	4.91E-02
+	SB-124	602.71		97.87	3.80E-02	7.45E-02	7.45E-02
		645.85		7.26	1.40E-01		1.04E+00
		722.78		11.10	-3.96E-01		6.91E-01
		1691.02		49.00	2.65E-02		1.77E-01
+	I-125	35.49		6.49	-2.49E-01	2.23E+00	2.23E+00
+	SB-125	176.33		6.89	9.84E-02	1.79E-01	5.23E-01
		427.89		29.33	7.50E-02		1.79E-01
		463.38		10.35	4.78E-02		4.96E-01
		600.56		17.80	7.83E-02		3.00E-01
		635.90		11.32	-2.46E-02		4.35E-01
+	SB-126	414.70		83.30	-1.54E-01	2.06E-01	2.06E-01
		666.33		99.60	6.96E-02		2.57E-01
		695.00		99.60	4.63E-03		2.50E-01
		720.50		53.80	5.75E-03		4.64E-01
+	SN-126	87.57		37.00	6.07E-03	1.23E-01	1.23E-01
+	SB-127	473.00		25.00	4.14E+00	1.56E+01	2.21E+01
		685.20		35.70	-1.32E+01		1.56E+01
		783.80		14.70	2.29E+01		4.57E+01
+	I-129	29.78		57.00	-1.05E-01	3.17E-01	3.17E-01
		33.60		13.20	4.55E-01		9.56E-01
		39.58		7.52	-1.88E-01		1.08E+00
+	I-131	284.30		6.05	-1.86E+00	5.49E-01	6.63E+00
		364.48		81.20	-1.75E-01		5.49E-01
		636.97		7.26	1.70E+00		6.76E+00
		722.89		1.80	-1.74E+01		3.04E+01

Analysis Report for 1508002-09

DUPLICATE 5

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	-1.05E+02	1.34E+01	1.14E+02
			228.16	88.00	6.79E+00		1.34E+01
+		BA-133	81.00	33.00	-1.72E-01	1.13E-01	1.32E-01
			302.84	17.80	1.07E-01		2.60E-01
			356.01	60.00	4.42E-03		1.13E-01
+		I-133	529.87	86.30	-3.04E+07	7.15E+07	7.15E+07
+		XE-133	81.00	38.00	-4.81E+00	3.70E+00	3.70E+00
+		CS-134	563.23	8.38	-6.20E-02	5.94E-02	6.43E-01
			569.32	15.43	7.05E-02		3.40E-01
			604.70	97.60	1.32E-02		5.94E-02
			795.84	85.40	1.88E-02		7.50E-02
			801.93	8.73	-1.27E-01		6.94E-01
+		CS-135	268.24	16.00	9.66E-02	2.79E-01	2.79E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	7.82E-01	1.75E-01	1.96E+00
			163.89	4.61	1.38E+00		3.23E+00
			176.55	13.56	-4.07E-02		1.01E+00
			273.65	12.66	-8.77E-02		1.36E+00
			340.57	48.50	9.28E-02		4.00E-01
			818.50	99.70	-2.73E-02		1.75E-01
			1048.07	79.60	8.48E-03		2.31E-01
			1235.34	19.70	-8.73E-01		1.51E+00
+		CS-137	661.65	85.12	2.94E-02	7.04E-02	7.04E-02
+		LA-138	788.74	34.00	4.31E-02	1.05E-01	1.85E-01
			1435.80	66.00	-1.71E-02		1.05E-01
+		CE-139	165.85	80.35	2.49E-03	5.06E-02	5.06E-02
+		BA-140	162.64	6.70	1.22E+00	8.01E-01	2.32E+00
			304.84	4.50	-1.09E+00		4.13E+00
			423.70	3.20	2.16E+00		6.93E+00
			437.55	2.00	4.18E+00		1.05E+01
			537.32	25.00	-2.37E-01		8.01E-01
+		LA-140	328.77	20.50	4.73E-01	2.38E-01	9.96E-01
			487.03	45.50	2.09E-01		4.47E-01
			815.85	23.50	3.95E-02		8.19E-01
			1596.49	95.49	-4.50E-02		2.38E-01
+		CE-141	145.44	48.40	-2.19E-02	1.20E-01	1.20E-01
+		CE-143	57.36	11.80	1.91E+05	1.01E+05	2.47E+05
			293.26	42.00	8.52E+03		1.01E+05
			664.55	5.20	9.76E+03		6.47E+05
+		CE-144	133.54	10.80	-5.18E-02	3.16E-01	3.16E-01
+		PM-144	476.78	42.00	-1.47E-02	5.51E-02	1.16E-01
			618.01	98.60	2.90E-02		5.51E-02
			696.49	99.49	-2.27E-02		5.80E-02
+		PM-145	36.85	21.70	4.02E-01	2.40E-01	4.59E-01
			37.36	39.70	-5.50E-02		2.40E-01
			42.30	15.10	-1.14E-01		4.83E-01
			72.40	2.31	7.74E-02		2.20E+00

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90	39.94	1.59E-02	1.21E-01	1.21E-01
		735.90	14.01	-1.49E-01		3.75E-01
		747.13	13.10	-2.72E-01		3.40E-01
+	ND-147	91.11	28.90	4.82E-01	8.81E-01	8.81E-01
		531.02	13.10	-1.07E+00		1.79E+00
+	PM-149	285.90	3.10	-4.28E+02	5.51E+03	5.51E+03
+	EU-152	121.78	20.50	3.42E-02	1.57E-01	1.57E-01
		244.69	5.40	-1.52E-01		1.02E+00
		344.27	19.13	-1.78E-02		2.35E-01
		778.89	9.20	-1.37E-01		5.25E-01
		964.01	10.40	1.83E-02		5.97E-01
		1085.78	7.22	2.37E-01		7.71E-01
		1112.02	9.60	2.92E-01		6.81E-01
		1407.95	14.94	-2.20E-01		4.60E-01
+	GD-153	97.43	31.30	4.37E-02	1.33E-01	1.33E-01
		103.18	22.20	-1.03E-01		1.63E-01
+	EU-154	123.07	40.50	1.26E-03	8.11E-02	8.11E-02
		723.30	19.70	-1.66E-01		2.90E-01
		873.19	11.50	-3.97E-01		4.65E-01
		996.32	10.30	7.27E-02		5.51E-01
		1004.76	17.90	1.50E-02		3.01E-01
		1274.45	35.50	-4.96E-02		2.06E-01
+	EU-155	86.50	30.90	4.46E-02	1.51E-01	1.51E-01
		105.30	20.70	8.41E-02		1.69E-01
+	EU-156	811.77	10.40	-1.09E-01	1.47E+00	1.47E+00
		1153.47	7.20	6.06E-01		3.10E+00
		1230.71	8.90	3.53E-01		2.83E+00
+	HO-166M	184.41	72.60	1.24E-01	6.86E-02	6.86E-02
		280.45	29.60	-5.42E-02		1.35E-01
		410.94	11.10	2.62E-01		4.29E-01
		711.69	54.10	-7.52E-02		8.23E-02
+	TM-171	66.72	0.14	-4.45E+01	3.44E+01	3.44E+01
+	HF-172	81.75	4.52	-1.16E+00	2.92E-01	1.02E+00
		125.81	11.30	-1.22E-01		2.92E-01
+	LU-172	181.53	20.60	-6.04E-02	1.48E+00	2.58E+00
		810.06	16.63	-1.75E+00		4.44E+00
		912.12	15.25	3.33E+00		7.11E+00
		1093.66	62.50	2.61E-01		1.48E+00
+	LU-173	100.72	5.24	1.34E-01	2.21E-01	7.11E-01
		272.11	21.20	8.27E-02		2.21E-01
+	HF-175	343.40	84.00	-9.77E-03	6.83E-02	6.83E-02
+	LU-176	88.34	13.30	1.08E-01	4.88E-02	3.45E-01
		201.83	86.00	-3.82E-03		5.00E-02
		306.78	94.00	1.38E-02		4.88E-02
+	TA-182	67.75	41.20	1.29E-02	1.35E-01	1.35E-01
		1121.30	34.90	4.47E-01		3.72E-01
		1189.05	16.23	2.22E-02		4.60E-01
		1221.41	26.98	-1.59E-01		2.05E-01
		1231.02	11.44	-1.73E-02		7.44E-01

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-1.70E-02	1.36E-01	1.96E-01
		468.07		48.10	7.33E-03		1.36E-01
+	HG-203	279.19		77.30	-2.27E-02	7.74E-02	7.74E-02
+	BI-207	569.67		97.72	-1.59E-02	5.13E-02	5.13E-02
		1063.62		74.90	-1.15E-03		7.29E-02
+	TL-208	583.14		30.22	8.43E-02	2.07E-01	2.07E-01
		860.37		4.48	5.76E-01		1.35E+00
		2614.66		35.85	5.30E-02		2.23E-01
+	BI-210M	262.00	*	45.00	6.83E-02	1.11E-01	1.11E-01
		300.00		23.00	-4.06E-02		2.06E-01
+	PB-210	46.50		4.25	1.86E+00	1.64E+00	1.64E+00
+	PB-211	404.84		2.90	-9.91E-01	1.56E+00	1.56E+00
		831.96		2.90	2.97E-01		2.07E+00
+	BI-212	727.17		11.80	1.70E-01	5.57E-01	5.57E-01
		1620.62		2.75	1.66E-01		2.48E+00
+	PB-212	238.63	*	44.60	1.90E-01	1.67E-01	1.67E-01
		300.09		3.41	-2.74E-01		1.39E+00
+	BI-214	609.31	*	46.30	8.13E-01	1.23E-01	1.23E-01
		1120.29	*	15.10	9.07E-01		4.02E-01
		1764.49	*	15.80	8.82E-01		5.82E-01
		2204.22	*	4.98	9.27E-01		1.25E+00
+	PB-214	295.21	*	19.19	9.61E-01	1.68E-01	2.13E-01
		351.92	*	37.19	7.64E-01		1.68E-01
+	RN-219	401.80		6.50	3.04E-01	7.83E-01	7.83E-01
+	RA-223	323.87		3.88	6.42E-01	1.22E+00	1.22E+00
+	RA-224	240.98		3.95	3.60E+00	1.70E+00	1.70E+00
+	RA-225	40.00		31.00	-1.52E-01	8.80E-01	8.80E-01
+	RA-226	186.21	*	3.28	1.59E+00	1.87E+00	1.87E+00
+	TH-227	50.10		8.40	-6.02E-01	4.71E-01	6.51E-01
		236.00		11.50	2.30E-01		4.71E-01
		256.20		6.30	1.96E-01		6.91E-01
+	AC-228	338.32		11.40	9.38E-02	2.57E-01	4.14E-01
		911.07		27.70	5.29E-02		2.57E-01
		969.11		16.60	2.09E-01		4.05E-01
+	TH-230	48.44		16.90	8.11E-02	3.69E-01	3.69E-01
		62.85		4.60	5.70E-01		1.15E+00
		67.67		0.37	1.23E+00		1.28E+01
+	PA-231	283.67		1.60	-7.29E-01	2.00E+00	2.59E+00
		302.67		2.30	8.25E-01		2.00E+00
+	TH-231	25.64		14.70	-9.39E-01	6.98E-01	2.40E+00
		84.21		6.40	-3.57E-01		6.98E-01
+	PA-233	311.98		38.60	1.87E-02	2.38E-01	2.38E-01
+	PA-234	131.20		20.40	1.67E-02	1.64E-01	1.64E-01
		733.99		8.80	7.42E-02		6.23E-01
		946.00		12.00	6.09E-02		4.50E-01
+	PA-234M	1001.03		0.92	-4.33E-01	6.16E+00	6.16E+00
+	TH-234	63.29		3.80	1.87E+00	1.42E+00	1.42E+00

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	2.32E-01	3.39E-01	3.39E-01
		163.35	4.70	3.39E-01		7.91E-01
		205.31	4.70	1.89E-01		9.12E-01
+	NP-237	86.50	12.60	1.08E-01	3.66E-01	3.66E-01
+	NP-239	106.10	22.70	3.93E+01	3.41E+02	3.41E+02
		228.18	10.70	4.78E+02		9.46E+02
		277.60	14.10	-8.64E+01		6.65E+02
+	AM-241	59.54	35.90	-1.52E-01	1.40E-01	1.40E-01
+	AM-243	74.67	66.00	7.06E-02	8.82E-02	8.82E-02
+	CM-243	209.75	3.29	-3.73E-01	2.91E-01	1.28E+00
		228.14	10.60	2.10E-01		4.15E-01
		277.60	14.00	-3.79E-02		2.91E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	6.80E-01	6.80E-01	5.82E-02	3.14E-01
	NA-22	1274.54		99.94	7.43E-02	7.43E-02	-1.78E-02	3.27E-02
	NA-24	1368.53		99.99	3.12E+11	1.87E+11	1.36E+11	1.34E+11
		2754.09		99.86	1.87E+11		2.54E+10	5.92E+10
	AL-26	1808.65		99.76	5.57E-02	5.57E-02	1.56E-02	2.21E-02
+	K-40	1460.81	*	10.67	1.04E+00	1.04E+00	1.97E+00	4.74E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.01E-02	5.01E-02	4.80E-03	2.43E-02
		78.34		96.00	5.93E-02		-7.33E-03	2.89E-02
	SC-46	889.25		99.98	6.54E-02	6.54E-02	-6.79E-02	2.87E-02

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	1.36E-01	6.54E-02	1.52E-01	6.32E-02
	V-48	983.52		99.98	1.93E-01	1.93E-01	7.47E-02	8.54E-02
		1312.10		97.50	2.40E-01		-7.83E-02	1.05E-01
	CR-51	320.08		9.83	8.95E-01	8.95E-01	-6.81E-04	4.21E-01
	MN-54	834.83		99.97	6.70E-02	6.70E-02	-3.75E-03	3.03E-02
	CO-56	846.75		99.96	8.20E-02	8.20E-02	3.46E-02	3.70E-02
		1037.75		14.03	5.25E-01		1.87E-01	2.29E-01
		1238.25		67.00	1.73E-01		8.65E-02	7.85E-02
		1771.40		15.51	5.39E-01		0.00E+00	2.23E-01
		2598.48		16.90	3.67E-01		-1.32E-02	1.30E-01
	CO-57	122.06		85.51	4.03E-02	4.03E-02	8.75E-03	1.93E-02
		136.48		10.60	3.18E-01		-9.38E-02	1.52E-01
	CO-58	810.76		99.40	6.64E-02	6.64E-02	1.06E-02	2.93E-02
	FE-59	1099.22		56.50	1.44E-01	1.44E-01	-5.62E-02	6.17E-02
		1291.56		43.20	2.63E-01		3.49E-02	1.16E-01
	CO-60	1173.22		100.00	7.36E-02	7.36E-02	3.66E-02	3.27E-02
		1332.49		100.00	8.50E-02		4.76E-02	3.79E-02
	ZN-65	1115.52		50.75	1.20E-01	1.20E-01	2.60E-02	5.18E-02
+	GA-67	93.31	*	35.70	3.93E+01	3.93E+01	2.54E+01	1.91E+01
		208.95		2.24	5.02E+02		-1.23E+02	2.39E+02
		300.22		16.00	7.95E+01		-1.56E+01	3.76E+01
	SE-75	121.11		16.70	2.31E-01	6.36E-02	1.41E-01	1.11E-01
		136.00		59.20	6.36E-02		7.57E-03	3.03E-02
		264.65		59.80	8.84E-02		-8.24E-03	4.20E-02
		279.53		25.20	1.85E-01		-3.28E-02	8.70E-02
		400.65		11.40	5.19E-01		7.72E-02	2.43E-01
	RB-82	776.52		13.00	8.57E-01	8.57E-01	1.91E-01	3.83E-01
	RB-83	520.41		46.00	1.33E-01	1.33E-01	-8.79E-03	6.12E-02
		529.64		30.30	1.84E-01		-7.82E-02	8.36E-02
		552.65		16.40	3.58E-01		-4.41E-02	1.63E-01
	KR-85	513.99		0.43	1.72E+01	1.72E+01	1.57E+01	8.13E+00
	SR-85	513.99		99.27	9.91E-02	9.91E-02	9.06E-02	4.68E-02
	Y-88	898.02		93.40	8.28E-02	5.51E-02	3.25E-03	3.72E-02
		1836.01		99.38	5.51E-02		-8.53E-03	2.06E-02
	NB-93M	16.57		9.43	5.83E+01	5.83E+01	1.37E+01	2.81E+01
	NB-94	702.63		100.00	6.01E-02	5.43E-02	7.09E-04	2.74E-02
		871.10		100.00	5.43E-02		-7.46E-03	2.40E-02
	NB-95	765.79		99.81	1.22E-01	1.22E-01	6.30E-02	5.62E-02
	NB-95M	235.69		25.00	3.38E+01	3.38E+01	1.65E+01	1.62E+01
	ZR-95	724.18		43.70	1.90E-01	1.26E-01	4.14E-03	8.67E-02
		756.72		55.30	1.26E-01		5.14E-03	5.61E-02
	MO-99	181.06		6.20	4.23E+02	3.46E+02	-9.35E+01	2.01E+02
		739.58		12.80	3.46E+02		5.66E+01	1.57E+02
		778.00		4.50	8.65E+02		3.17E+01	3.84E+02
	RU-103	497.08		89.00	8.97E-02	8.97E-02	1.13E-02	4.13E-02
	RU-106	621.84		9.80	4.91E-01	4.91E-01	-1.95E-01	2.20E-01
	AG-108M	433.93		89.90	5.06E-02	5.06E-02	-8.63E-03	2.34E-02
		614.37		90.40	6.75E-02		7.82E-03	3.11E-02
		722.95		90.50	6.27E-02		-3.59E-02	2.83E-02
	CD-109	88.03		3.72	1.27E+00	1.27E+00	6.28E-02	6.16E-01
	AG-110M	657.75		93.14	5.94E-02	5.94E-02	-4.13E-02	2.68E-02
		677.61		10.53	5.95E-01		1.68E-01	2.71E-01
		706.67		16.46	3.85E-01		2.05E-01	1.75E-01

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	2.87E-01	5.94E-02	-2.08E-01	1.29E-01
		884.67		71.63	1.01E-01		4.31E-02	4.58E-02
		1384.27		23.94	3.32E-01		3.12E-02	1.45E-01
+	CD-113M	263.70	*	0.02	2.18E+02	2.18E+02	1.34E+02	1.04E+02
	SN-113	255.12		1.93	2.75E+00	8.26E-02	1.23E+00	1.31E+00
		391.69		64.90	8.26E-02		-5.00E-02	3.84E-02
	TE123M	159.00		84.10	4.91E-02	4.91E-02	-9.11E-03	2.35E-02
	SB-124	602.71		97.87	7.45E-02	7.45E-02	3.80E-02	3.41E-02
		645.85		7.26	1.04E+00		1.40E-01	4.75E-01
		722.78		11.10	6.91E-01		-3.96E-01	3.12E-01
		1691.02		49.00	1.77E-01		2.65E-02	7.35E-02
	I-125	35.49		6.49	2.23E+00	2.23E+00	-2.49E-01	1.07E+00
	SB-125	176.33		6.89	5.23E-01	1.79E-01	9.84E-02	2.49E-01
		427.89		29.33	1.79E-01		7.50E-02	8.36E-02
		463.38		10.35	4.96E-01		4.78E-02	2.30E-01
		600.56		17.80	3.00E-01		7.83E-02	1.37E-01
		635.90		11.32	4.35E-01		-2.46E-02	1.96E-01
	SB-126	414.70		83.30	2.06E-01	2.06E-01	-1.54E-01	9.41E-02
		666.33		99.60	2.57E-01		6.96E-02	1.17E-01
		695.00		99.60	2.50E-01		4.63E-03	1.13E-01
		720.50		53.80	4.64E-01		5.75E-03	2.10E-01
	SN-126	87.57		37.00	1.23E-01	1.23E-01	6.07E-03	5.96E-02
	SB-127	473.00		25.00	2.21E+01	1.56E+01	4.14E+00	1.02E+01
		685.20		35.70	1.56E+01		-1.32E+01	6.98E+00
		783.80		14.70	4.57E+01		2.29E+01	2.06E+01
	I-129	29.78		57.00	3.17E-01	3.17E-01	-1.05E-01	1.52E-01
		33.60		13.20	9.56E-01		4.55E-01	4.61E-01
		39.58		7.52	1.08E+00		-1.88E-01	5.23E-01
	I-131	284.30		6.05	6.63E+00	5.49E-01	-1.86E+00	3.12E+00
		364.48		81.20	5.49E-01		-1.75E-01	2.57E-01
		636.97		7.26	6.76E+00		1.70E+00	3.05E+00
		722.89		1.80	3.04E+01		-1.74E+01	1.37E+01
	TE-132	49.72		13.10	1.14E+02	1.34E+01	-1.05E+02	5.48E+01
		228.16		88.00	1.34E+01		6.79E+00	6.41E+00
	BA-133	81.00		33.00	1.32E-01	1.13E-01	-1.72E-01	6.40E-02
		302.84		17.80	2.60E-01		1.07E-01	1.23E-01
		356.01		60.00	1.13E-01		4.42E-03	5.41E-02
	I-133	529.87		86.30	7.15E+07	7.15E+07	-3.04E+07	3.25E+07
	XE-133	81.00		38.00	3.70E+00	3.70E+00	-4.81E+00	1.79E+00
	CS-134	563.23		8.38	6.43E-01	5.94E-02	-6.20E-02	2.95E-01
		569.32		15.43	3.40E-01		7.05E-02	1.56E-01
		604.70		97.60	5.94E-02		1.32E-02	2.73E-02
		795.84		85.40	7.50E-02		1.88E-02	3.40E-02
		801.93		8.73	6.94E-01		-1.27E-01	3.12E-01
	CS-135	268.24		16.00	2.79E-01	2.79E-01	9.66E-02	1.32E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.96E+00	1.75E-01	7.82E-01	9.39E-01
		163.89		4.61	3.23E+00		1.38E+00	1.54E+00
		176.55		13.56	1.01E+00		-4.07E-02	4.80E-01
		273.65		12.66	1.36E+00		-8.77E-02	6.44E-01
		340.57		48.50	4.00E-01		9.28E-02	1.88E-01

Analysis Report for 1508002-09

DUPLICATE 5

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	1.75E-01	1.75E-01	-2.73E-02	7.53E-02
	1048.07	79.60	2.31E-01		8.48E-03	9.68E-02
	1235.34	19.70	1.51E+00		-8.73E-01	6.68E-01
CS-137	661.65	85.12	7.04E-02	7.04E-02	2.94E-02	3.22E-02
LA-138	788.74	34.00	1.85E-01	1.05E-01	4.31E-02	8.39E-02
	1435.80	66.00	1.05E-01		-1.71E-02	4.54E-02
CE-139	165.85	80.35	5.06E-02	5.06E-02	2.49E-03	2.41E-02
BA-140	162.64	6.70	2.32E+00	8.01E-01	1.22E+00	1.11E+00
	304.84	4.50	4.13E+00		-1.09E+00	1.95E+00
	423.70	3.20	6.93E+00		2.16E+00	3.24E+00
	437.55	2.00	1.05E+01		4.18E+00	4.91E+00
	537.32	25.00	8.01E-01		-2.37E-01	3.66E-01
LA-140	328.77	20.50	9.96E-01	2.38E-01	4.73E-01	4.70E-01
	487.03	45.50	4.47E-01		2.09E-01	2.06E-01
	815.85	23.50	8.19E-01		3.95E-02	3.56E-01
	1596.49	95.49	2.38E-01		-4.50E-02	9.61E-02
CE-141	145.44	48.40	1.20E-01	1.20E-01	-2.19E-02	5.74E-02
CE-143	57.36	11.80	2.47E+05	1.01E+05	1.91E+05	1.20E+05
	293.26	42.00	1.01E+05		8.52E+03	4.88E+04
	664.55	5.20	6.47E+05		9.76E+03	2.96E+05
CE-144	133.54	10.80	3.16E-01	3.16E-01	-5.18E-02	1.51E-01
PM-144	476.78	42.00	1.16E-01	5.51E-02	-1.47E-02	5.35E-02
	618.01	98.60	5.51E-02		2.90E-02	2.50E-02
	696.49	99.49	5.80E-02		-2.27E-02	2.62E-02
PM-145	36.85	21.70	4.59E-01	2.40E-01	4.02E-01	2.21E-01
	37.36	39.70	2.40E-01		-5.50E-02	1.16E-01
	42.30	15.10	4.83E-01		-1.14E-01	2.33E-01
	72.40	2.31	2.20E+00		7.74E-02	1.07E+00
PM-146	453.90	39.94	1.21E-01	1.21E-01	1.59E-02	5.57E-02
	735.90	14.01	3.75E-01		-1.49E-01	1.68E-01
	747.13	13.10	3.40E-01		-2.72E-01	1.48E-01
ND-147	91.11	28.90	8.81E-01	8.81E-01	4.82E-01	4.29E-01
	531.02	13.10	1.79E+00		-1.07E+00	8.13E-01
PM-149	285.90	3.10	5.51E+03	5.51E+03	-4.28E+02	2.61E+03
EU-152	121.78	20.50	1.57E-01	1.57E-01	3.42E-02	7.53E-02
	244.69	5.40	1.02E+00		-1.52E-01	4.92E-01
	344.27	19.13	2.35E-01		-1.78E-02	1.10E-01
	778.89	9.20	5.25E-01		-1.37E-01	2.31E-01
	964.01	10.40	5.97E-01		1.83E-02	2.65E-01
	1085.78	7.22	7.71E-01		2.37E-01	3.32E-01
	1112.02	9.60	6.81E-01		2.92E-01	3.00E-01
	1407.95	14.94	4.60E-01		-2.20E-01	1.98E-01
GD-153	97.43	31.30	1.33E-01	1.33E-01	4.37E-02	6.42E-02
	103.18	22.20	1.63E-01		-1.03E-01	7.84E-02
EU-154	123.07	40.50	8.11E-02	8.11E-02	1.26E-03	3.88E-02
	723.30	19.70	2.90E-01		-1.66E-01	1.31E-01
	873.19	11.50	4.65E-01		-3.97E-01	2.04E-01
	996.32	10.30	5.51E-01		7.27E-02	2.41E-01
	1004.76	17.90	3.01E-01		1.50E-02	1.30E-01
	1274.45	35.50	2.06E-01		-4.96E-02	9.08E-02
EU-155	86.50	30.90	1.51E-01	1.51E-01	4.46E-02	7.33E-02
	105.30	20.70	1.69E-01		8.41E-02	8.14E-02
EU-156	811.77	10.40	1.47E+00	1.47E+00	-1.09E-01	6.40E-01

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	3.10E+00	1.47E+00	6.06E-01	1.36E+00
		1230.71		8.90	2.83E+00		3.53E-01	1.26E+00
	HO-166M	184.41		72.60	6.86E-02	6.86E-02	1.24E-01	3.31E-02
		280.45		29.60	1.35E-01		-5.42E-02	6.34E-02
		410.94		11.10	4.29E-01		2.62E-01	2.00E-01
		711.69		54.10	8.23E-02		-7.52E-02	3.62E-02
	TM-171	66.72		0.14	3.44E+01	3.44E+01	-4.45E+01	1.67E+01
	HF-172	81.75		4.52	1.02E+00	2.92E-01	-1.16E+00	4.95E-01
		125.81		11.30	2.92E-01		-1.22E-01	1.39E-01
	LU-172	181.53		20.60	2.58E+00	1.48E+00	-6.04E-02	1.22E+00
		810.06		16.63	4.44E+00		-1.75E+00	1.95E+00
		912.12		15.25	7.11E+00		3.33E+00	3.22E+00
		1093.66		62.50	1.48E+00		2.61E-01	6.48E-01
	LU-173	100.72		5.24	7.11E-01	2.21E-01	1.34E-01	3.42E-01
		272.11		21.20	2.21E-01		8.27E-02	1.05E-01
	HF-175	343.40		84.00	6.83E-02	6.83E-02	-9.77E-03	3.19E-02
	LU-176	88.34		13.30	3.45E-01	4.88E-02	1.08E-01	1.68E-01
		201.83		86.00	5.00E-02		-3.82E-03	2.39E-02
		306.78		94.00	4.88E-02		1.38E-02	2.30E-02
	TA-182	67.75		41.20	1.35E-01	1.35E-01	1.29E-02	6.53E-02
		1121.30		34.90	3.72E-01		4.47E-01	1.73E-01
		1189.05		16.23	4.60E-01		2.22E-02	2.00E-01
		1221.41		26.98	2.05E-01		-1.59E-01	8.39E-02
		1231.02		11.44	7.44E-01		-1.73E-02	3.28E-01
	IR-192	308.46		29.68	1.96E-01	1.36E-01	-1.70E-02	9.22E-02
		468.07		48.10	1.36E-01		7.33E-03	6.32E-02
	HG-203	279.19		77.30	7.74E-02	7.74E-02	-2.27E-02	3.64E-02
	BI-207	569.67		97.72	5.13E-02	5.13E-02	-1.59E-02	2.34E-02
		1063.62		74.90	7.29E-02		-1.15E-03	3.14E-02
	TL-208	583.14		30.22	2.07E-01	2.07E-01	8.43E-02	9.61E-02
		860.37		4.48	1.35E+00		5.76E-01	6.07E-01
		2614.66		35.85	2.23E-01		5.30E-02	9.13E-02
+	BI-210M	262.00	*	45.00	1.11E-01	1.11E-01	6.83E-02	5.29E-02
		300.00		23.00	2.06E-01		-4.06E-02	9.76E-02
	PB-210	46.50		4.25	1.64E+00	1.64E+00	1.86E+00	7.93E-01
	PB-211	404.84		2.90	1.56E+00	1.56E+00	-9.91E-01	7.22E-01
		831.96		2.90	2.07E+00		2.97E-01	9.29E-01
	BI-212	727.17		11.80	5.57E-01	5.57E-01	1.70E-01	2.55E-01
		1620.62		2.75	2.48E+00		1.66E-01	1.05E+00
+	PB-212	238.63	*	44.60	1.67E-01	1.67E-01	1.90E-01	8.12E-02
		300.09		3.41	1.39E+00		-2.74E-01	6.58E-01
+	BI-214	609.31	*	46.30	1.23E-01	1.23E-01	8.13E-01	5.66E-02
		1120.29	*	15.10	4.02E-01		9.07E-01	1.75E-01
		1764.49	*	15.80	5.82E-01		8.82E-01	2.55E-01
		2204.22	*	4.98	1.25E+00		9.27E-01	4.95E-01
+	PB-214	295.21	*	19.19	2.13E-01	1.68E-01	9.61E-01	9.98E-02
		351.92	*	37.19	1.68E-01		7.64E-01	8.00E-02
	RN-219	401.80		6.50	7.83E-01	7.83E-01	3.04E-01	3.66E-01
	RA-223	323.87		3.88	1.22E+00	1.22E+00	6.42E-01	5.74E-01
	RA-224	240.98		3.95	1.70E+00	1.70E+00	3.60E+00	8.24E-01
	RA-225	40.00		31.00	8.80E-01	8.80E-01	-1.52E-01	4.24E-01
+	RA-226	186.21	*	3.28	1.87E+00	1.87E+00	1.59E+00	9.09E-01
	TH-227	50.10		8.40	6.51E-01	4.71E-01	-6.02E-01	3.14E-01

Analysis Report for 1508002-09

DUPLICATE 5

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-227	236.00	11.50	4.71E-01	4.71E-01	2.30E-01	2.26E-01
	256.20	6.30	6.91E-01		1.96E-01	3.28E-01
AC-228	338.32	11.40	4.14E-01	2.57E-01	9.38E-02	1.95E-01
	911.07	27.70	2.57E-01		5.29E-02	1.17E-01
	969.11	16.60	4.05E-01		2.09E-01	1.81E-01
TH-230	48.44	16.90	3.69E-01	3.69E-01	8.11E-02	1.78E-01
	62.85	4.60	1.15E+00		5.70E-01	5.58E-01
	67.67	0.37	1.28E+01		1.23E+00	6.20E+00
PA-231	283.67	1.60	2.59E+00	2.00E+00	-7.29E-01	1.22E+00
	302.67	2.30	2.00E+00		8.25E-01	9.45E-01
TH-231	25.64	14.70	2.40E+00	6.98E-01	-9.39E-01	1.16E+00
	84.21	6.40	6.98E-01		-3.57E-01	3.39E-01
PA-233	311.98	38.60	2.38E-01	2.38E-01	1.87E-02	1.12E-01
PA-234	131.20	20.40	1.64E-01	1.64E-01	1.67E-02	7.87E-02
	733.99	8.80	6.23E-01		7.42E-02	2.80E-01
	946.00	12.00	4.50E-01		6.09E-02	1.97E-01
PA-234M	1001.03	0.92	6.16E+00	6.16E+00	-4.33E-01	2.69E+00
TH-234	63.29	3.80	1.42E+00	1.42E+00	1.87E+00	6.91E-01
U-235	143.76	10.50	3.39E-01	3.39E-01	2.32E-01	1.62E-01
	163.35	4.70	7.91E-01		3.39E-01	3.78E-01
	205.31	4.70	9.12E-01		1.89E-01	4.36E-01
NP-237	86.50	12.60	3.66E-01	3.66E-01	1.08E-01	1.78E-01
NP-239	106.10	22.70	3.41E+02	3.41E+02	3.93E+01	1.64E+02
	228.18	10.70	9.46E+02		4.78E+02	4.51E+02
	277.60	14.10	6.65E+02		-8.64E+01	3.13E+02
AM-241	59.54	35.90	1.40E-01	1.40E-01	-1.52E-01	6.79E-02
AM-243	74.67	66.00	8.82E-02	8.82E-02	7.06E-02	4.30E-02
CM-243	209.75	3.29	1.28E+00	2.91E-01	-3.73E-01	6.09E-01
	228.14	10.60	4.15E-01		2.10E-01	1.98E-01
	277.60	14.00	2.91E-01		-3.79E-02	1.37E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1508002-09
DUPLICATE 5

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: DUPLICATE 5

Elapsed Live time: 3600
Elapsed Real Time: 3611

Channel								
1:	0	0	0	0	0	0	0	0
9:	15	124	123	105	91	88	51	63
17:	63	45	42	26	35	49	51	55
25:	48	41	53	44	56	36	28	53
33:	45	38	40	64	50	45	52	36
41:	60	47	51	28	69	67	99	51
49:	46	57	51	52	43	61	53	48
57:	53	62	76	72	46	70	104	118
65:	58	68	65	73	73	70	75	73
73:	64	81	138	118	185	186	60	74
81:	71	69	62	86	81	64	78	98
89:	68	69	73	81	140	91	37	59
97:	44	56	55	54	38	38	44	41
105:	37	40	48	30	36	35	37	22
113:	61	30	34	36	27	25	37	26
121:	37	41	34	26	30	29	40	34
129:	39	34	33	32	30	36	23	29
137:	33	29	28	26	36	32	38	38
145:	34	31	16	29	33	27	29	32
153:	38	36	36	26	31	37	25	30
161:	30	24	44	33	35	27	25	26
169:	25	26	32	34	22	26	27	26
177:	20	34	17	27	25	22	32	18
185:	41	96	67	27	18	22	30	28
193:	21	28	21	18	23	27	23	35
201:	19	18	29	17	23	21	26	25
209:	17	15	20	24	20	31	18	22
217:	17	26	22	21	21	24	17	18
225:	18	22	15	30	17	17	23	15
233:	15	21	14	23	25	30	80	35
241:	31	62	54	23	21	11	15	17
249:	21	25	9	19	15	11	23	19
257:	25	14	8	17	12	27	21	13
265:	19	15	10	14	25	14	15	14
273:	11	22	11	15	13	16	7	14
281:	11	9	13	12	14	15	13	18
289:	17	23	16	16	5	26	86	105
297:	32	6	12	17	15	6	17	13
305:	13	16	14	11	11	16	6	17
313:	10	18	17	11	16	15	8	7
321:	9	15	16	15	7	13	16	11
329:	11	16	15	14	9	11	3	11
337:	13	18	20	10	9	11	11	9
345:	12	9	12	13	10	12	47	164
353:	95	10	9	11	14	10	14	12
361:	14	9	10	8	14	5	12	12

369:	11	11	9	14	11	11	5	10

Sample Title: DUPLICATE 5

Channel								
377:	12	10	7	11	5	5	13	8
385:	9	16	14	11	9	7	10	9
393:	8	11	6	13	10	9	13	8
401:	18	9	9	6	9	7	7	8
409:	8	12	13	7	4	8	7	1
417:	5	7	8	5	10	9	7	12
425:	11	11	12	9	11	4	8	4
433:	7	9	5	7	9	6	10	13
441:	11	4	6	4	7	6	9	8
449:	7	7	9	5	4	6	7	8
457:	11	4	8	8	6	12	9	5
465:	11	3	9	7	11	5	9	6
473:	10	2	7	9	4	3	8	10
481:	10	7	1	8	5	4	7	8
489:	9	5	4	5	6	7	4	11
497:	8	6	6	5	8	5	3	2
505:	7	5	9	7	9	18	38	26
513:	11	7	11	6	3	7	6	9
521:	6	3	8	3	6	7	6	2
529:	4	6	7	3	5	5	8	7
537:	6	6	3	2	5	11	3	3
545:	5	6	8	4	8	7	6	6
553:	2	3	5	5	6	4	8	7
561:	8	4	8	3	6	5	8	5
569:	6	8	5	1	3	6	8	4
577:	6	2	8	3	7	7	13	15
585:	8	3	9	4	9	5	4	6
593:	5	3	4	2	6	4	2	3
601:	8	5	6	8	4	4	2	13
609:	112	88	21	5	2	3	3	4
617:	10	6	3	4	3	3	2	6
625:	4	3	2	2	4	3	2	2
633:	4	8	1	3	2	4	5	7
641:	4	3	4	2	5	8	7	5
649:	5	4	7	3	5	7	4	5
657:	4	6	3	4	3	10	5	5
665:	10	4	1	5	8	4	1	5
673:	2	3	6	6	4	6	1	4
681:	9	5	5	0	5	1	4	4
689:	6	7	4	6	3	6	6	1
697:	5	6	3	5	8	5	3	5
705:	4	6	3	8	2	6	0	3
713:	2	2	3	4	7	4	4	3
721:	3	3	7	3	7	4	10	8
729:	6	3	4	4	2	5	4	2
737:	6	3	2	5	6	7	4	2
745:	3	1	1	2	4	3	3	5
753:	6	5	3	4	1	2	4	4
761:	1	2	6	7	4	4	5	9
769:	11	8	5	2	4	3	5	2
777:	4	2	4	1	3	2	3	3
785:	3	6	8	1	2	7	4	4
793:	2	6	5	9	2	5	2	5

801:	1	6	5	4	4	9	2	4

Sample Title: DUPLICATE 5

Channel								
809:	3	2	4	0	2	4	0	0
817:	4	3	2	1	3	3	0	3
825:	2	2	2	1	4	2	2	2
833:	4	5	7	8	2	1	9	3
841:	1	3	4	6	5	3	4	5
849:	3	4	3	1	5	4	1	1
857:	1	4	2	4	6	4	4	5
865:	1	4	3	4	3	4	1	6
873:	0	1	3	3	8	5	2	2
881:	4	6	1	5	7	3	4	2
889:	4	1	1	2	7	4	4	2
897:	6	4	6	4	1	1	4	1
905:	2	5	3	4	3	2	10	7
913:	3	3	4	3	1	2	4	6
921:	1	2	5	3	4	0	1	3
929:	0	2	2	2	2	8	7	6
937:	4	2	4	2	1	2	3	0
945:	2	2	2	3	4	1	4	2
953:	2	2	2	1	2	2	0	1
961:	4	3	3	4	2	0	5	3
969:	6	6	2	3	1	0	3	6
977:	2	2	0	2	5	1	2	4
985:	3	3	1	3	0	1	0	1
993:	1	2	4	2	3	2	2	3
1001:	3	2	1	3	1	4	2	1
1009:	1	1	4	4	3	3	1	0
1017:	3	1	1	3	1	4	4	6
1025:	3	2	1	1	2	3	1	0
1033:	1	2	3	1	2	5	2	1
1041:	2	1	1	2	1	2	1	1
1049:	2	2	0	2	0	2	2	2
1057:	9	2	4	2	1	1	3	2
1065:	3	1	1	1	1	2	0	0
1073:	2	3	4	2	5	3	3	2
1081:	0	2	1	2	1	4	3	0
1089:	2	2	0	3	2	2	6	1
1097:	4	1	2	2	0	2	2	2
1105:	3	0	2	1	3	2	3	4
1113:	2	2	2	1	1	1	8	22
1121:	17	7	0	2	3	1	0	5
1129:	0	3	3	1	1	5	3	3
1137:	1	1	2	2	3	1	2	2
1145:	5	2	2	2	1	1	3	1
1153:	1	2	6	4	3	2	1	1
1161:	2	3	3	5	3	3	2	1
1169:	1	4	2	3	4	3	1	4
1177:	2	1	1	1	3	6	2	4
1185:	0	4	1	3	2	2	3	0
1193:	1	3	4	4	1	6	2	3
1201:	0	3	2	2	3	1	1	0
1209:	3	3	1	3	3	3	2	3
1217:	3	1	1	2	1	2	0	0
1225:	1	4	4	4	2	7	1	0

1233:	3	2	1	3	4	7	8	4

Sample Title: DUPLICATE 5

Channel								
1241:	5	2	3	1	1	3	1	1
1249:	4	1	3	3	3	6	2	2
1257:	2	4	4	3	5	3	2	1
1265:	0	0	1	2	4	1	0	1
1273:	1	2	2	6	2	3	2	2
1281:	5	1	2	1	1	1	0	1
1289:	4	2	3	2	4	2	1	1
1297:	4	4	0	1	1	1	5	3
1305:	1	0	0	2	6	1	1	1
1313:	1	3	1	2	3	1	1	0
1321:	1	1	1	0	0	1	1	5
1329:	3	0	2	5	4	2	2	0
1337:	1	1	0	2	0	3	2	1
1345:	1	2	4	2	2	2	2	2
1353:	2	1	0	2	2	0	0	0
1361:	1	1	0	1	0	1	2	2
1369:	2	3	0	2	1	0	0	3
1377:	6	7	0	0	2	2	3	2
1385:	3	2	2	0	0	0	4	1
1393:	1	1	1	2	0	1	4	1
1401:	3	5	1	2	1	0	1	4
1409:	1	0	1	3	2	2	2	2
1417:	0	4	1	0	1	1	0	3
1425:	2	2	2	0	1	2	2	1
1433:	0	3	2	2	2	0	1	0
1441:	4	1	1	2	2	1	2	1
1449:	1	0	1	1	2	0	2	1
1457:	1	1	2	16	25	20	4	4
1465:	1	1	0	3	0	1	0	2
1473:	1	1	1	0	1	4	2	0
1481:	1	0	1	0	1	0	0	1
1489:	0	1	0	2	0	4	1	0
1497:	2	0	1	0	0	1	2	1
1505:	2	1	2	3	2	5	0	1
1513:	3	0	0	2	1	2	3	0
1521:	1	1	3	1	1	1	1	1
1529:	0	1	0	0	1	1	1	2
1537:	1	2	0	1	0	1	0	1
1545:	1	3	0	2	1	1	1	0
1553:	3	0	0	1	1	0	0	0
1561:	3	1	3	3	0	0	1	2
1569:	1	0	0	0	1	2	1	2
1577:	0	0	0	1	1	0	0	0
1585:	0	1	0	0	1	2	1	0
1593:	0	1	0	4	0	0	1	0
1601:	0	1	0	1	0	0	1	1
1609:	0	4	0	1	0	1	0	0
1617:	0	0	4	3	0	2	1	0
1625:	0	1	0	2	3	0	1	0
1633:	1	1	2	1	2	1	0	1
1641:	0	1	1	1	1	0	1	0
1649:	2	1	0	1	0	0	0	1
1657:	0	1	1	0	1	2	0	0

1665:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
1673:	0	0	0	0	1	1	0	0
1681:	1	1	1	2	0	2	2	1
1689:	1	2	0	0	2	0	0	0
1697:	0	1	0	0	0	0	0	1
1705:	0	0	0	1	0	1	1	1
1713:	0	0	0	0	1	0	1	1
1721:	0	1	0	0	1	0	1	0
1729:	1	1	4	0	0	0	1	0
1737:	0	1	0	0	2	1	1	1
1745:	0	0	1	0	1	1	0	0
1753:	1	0	1	0	1	1	2	1
1761:	1	1	7	9	13	7	3	1
1769:	0	1	1	0	1	1	0	0
1777:	0	1	0	1	0	0	1	0
1785:	0	0	0	0	0	2	1	0
1793:	0	0	1	0	0	0	1	1
1801:	1	0	0	1	0	1	0	0
1809:	1	1	1	0	0	0	0	1
1817:	0	0	0	2	0	1	1	0
1825:	0	2	0	1	0	0	1	0
1833:	0	0	1	0	0	0	1	0
1841:	1	1	0	0	2	1	2	4
1849:	2	1	0	0	2	1	0	1
1857:	1	1	0	0	0	2	0	1
1865:	0	0	0	1	0	0	0	1
1873:	0	0	1	0	0	0	0	1
1881:	0	0	0	3	0	2	0	0
1889:	0	0	1	1	0	0	3	1
1897:	0	0	0	0	0	1	0	0
1905:	0	0	0	0	0	0	1	0
1913:	1	0	1	2	1	1	0	0
1921:	0	1	1	0	1	2	0	0
1929:	0	0	1	1	0	0	0	0
1937:	1	1	0	1	0	0	0	0
1945:	1	0	1	1	0	0	1	1
1953:	0	0	3	0	0	0	0	0
1961:	0	1	1	0	2	0	0	2
1969:	1	3	1	1	0	0	2	0
1977:	1	1	0	0	0	0	1	0
1985:	0	0	0	0	0	0	0	2
1993:	0	0	0	0	1	0	1	0
2001:	0	1	0	0	0	1	0	0
2009:	0	0	1	0	0	2	0	3
2017:	1	0	0	1	0	1	0	1
2025:	0	0	1	0	2	1	0	2
2033:	0	0	0	0	0	0	0	0
2041:	0	0	0	0	1	0	1	0
2049:	0	0	0	0	1	1	1	0
2057:	0	0	1	0	0	0	0	0
2065:	0	0	1	0	2	0	0	0
2073:	0	0	0	0	0	0	0	0
2081:	0	1	1	1	0	2	1	0
2089:	2	0	0	1	0	1	0	0

2097:	1	1	0	1	0	0	0	1

Sample Title: DUPLICATE 5

Channel								
2105:	0	0	0	0	0	0	1	0
2113:	0	1	0	0	0	1	0	1
2121:	1	1	0	0	0	1	0	1
2129:	0	0	0	1	0	1	0	1
2137:	1	0	0	0	1	1	0	1
2145:	0	1	0	1	0	1	1	0
2153:	0	0	0	0	1	0	2	1
2161:	0	0	0	0	0	1	0	1
2169:	0	0	0	0	0	0	1	0
2177:	0	0	1	1	1	0	0	1
2185:	2	0	0	1	1	0	1	0
2193:	0	0	0	0	0	0	1	0
2201:	0	0	1	4	8	0	0	2
2209:	0	1	0	0	0	0	0	0
2217:	1	2	1	0	0	0	2	0
2225:	1	1	0	0	0	0	0	0
2233:	1	0	1	0	2	0	2	0
2241:	0	0	1	0	0	1	0	0
2249:	0	0	1	0	0	1	0	1
2257:	0	0	0	2	1	0	0	0
2265:	1	0	0	0	0	0	0	0
2273:	0	0	0	1	1	1	0	1
2281:	1	0	0	1	0	2	0	1
2289:	1	0	1	0	0	2	1	1
2297:	0	0	0	0	0	1	0	0
2305:	0	1	0	0	0	0	0	0
2313:	0	0	0	3	0	0	1	0
2321:	1	1	0	0	1	0	0	0
2329:	0	0	0	0	1	0	0	0
2337:	1	0	0	0	1	0	1	0
2345:	0	0	0	0	1	1	0	0
2353:	0	0	0	1	0	1	0	0
2361:	0	0	0	0	0	0	1	0
2369:	0	0	0	0	2	3	0	0
2377:	0	1	1	0	0	0	0	0
2385:	2	0	0	0	0	1	1	0
2393:	0	0	1	1	0	0	0	0
2401:	0	0	0	0	0	1	0	0
2409:	0	0	0	0	0	0	0	2
2417:	0	0	0	0	0	1	0	0
2425:	2	0	0	0	0	0	0	0
2433:	0	0	0	0	0	0	0	0
2441:	0	0	0	0	0	0	1	0
2449:	0	0	1	0	0	1	0	1
2457:	0	1	0	0	0	0	2	2
2465:	0	0	0	0	0	0	0	1
2473:	0	0	0	0	1	0	0	0
2481:	0	0	0	0	0	0	0	3
2489:	0	0	0	0	0	0	1	0
2497:	0	1	0	0	0	0	0	0
2505:	0	0	1	0	0	0	0	0
2513:	0	0	0	0	0	0	0	0
2521:	0	0	0	1	0	0	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
2537:	0	0	0	0	1	0	1	1
2545:	0	0	0	1	0	0	1	0
2553:	0	0	1	0	0	0	0	0
2561:	0	0	0	0	0	0	0	1
2569:	0	0	0	0	1	1	0	1
2577:	0	0	0	0	0	0	0	0
2585:	0	0	1	0	0	0	0	0
2593:	0	0	0	2	0	0	0	0
2601:	0	0	1	0	0	0	0	0
2609:	0	1	0	0	0	5	0	0
2617:	1	0	0	2	0	0	0	0
2625:	1	1	1	1	0	0	1	1
2633:	0	1	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	1	0
2657:	0	1	0	0	1	0	1	1
2665:	0	0	1	0	0	0	1	0
2673:	0	0	0	0	0	0	1	0
2681:	0	0	0	1	0	0	0	0
2689:	0	0	0	0	0	2	1	0
2697:	0	0	1	0	0	0	0	0
2705:	0	0	0	0	1	0	3	1
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	0	0	1	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	1	0	0	0	0	0
2745:	0	0	0	0	0	0	0	1
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	1	1	0	0	0	1	0
2777:	0	0	0	0	0	0	0	0
2785:	1	0	0	0	0	0	0	0
2793:	0	0	0	1	0	0	1	0
2801:	0	0	2	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	0	0	2	2	0
2873:	0	0	1	0	0	0	1	0
2881:	0	0	1	1	0	0	0	0
2889:	0	0	1	0	1	0	1	0
2897:	0	0	1	0	0	0	0	0
2905:	0	0	0	0	0	0	1	0
2913:	0	0	0	2	1	0	0	0
2921:	0	0	0	0	0	0	0	1
2929:	0	1	0	0	0	0	1	0
2937:	0	0	0	0	0	0	1	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	1	0	1	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	1	0	1	0	1	0	1	0
2985:	0	0	0	0	0	0	0	1
2993:	0	0	0	0	1	1	0	0
3001:	0	0	2	0	0	0	0	0
3009:	0	0	0	1	0	0	0	0
3017:	0	0	0	1	0	0	1	0
3025:	1	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	1	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	1	1	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	1
3089:	1	1	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	1	0	1	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	2	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	1	0	0	0	0	1
3201:	0	1	0	0	0	0	0	0
3209:	0	0	1	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	1	0	1	0
3249:	0	0	1	0	0	0	0	0
3257:	0	1	0	1	0	0	0	1
3265:	0	0	0	0	0	1	0	0
3273:	0	0	0	1	0	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	1	0
3313:	0	0	0	0	1	0	0	0
3321:	0	0	2	0	0	0	0	0
3329:	0	0	0	0	1	0	0	0
3337:	0	1	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	1	0	0	0	0	1
3369:	0	0	0	0	0	0	0	0
3377:	0	0	1	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	1	0	0	0	0	0

Sample Title: DUPLICATE 5

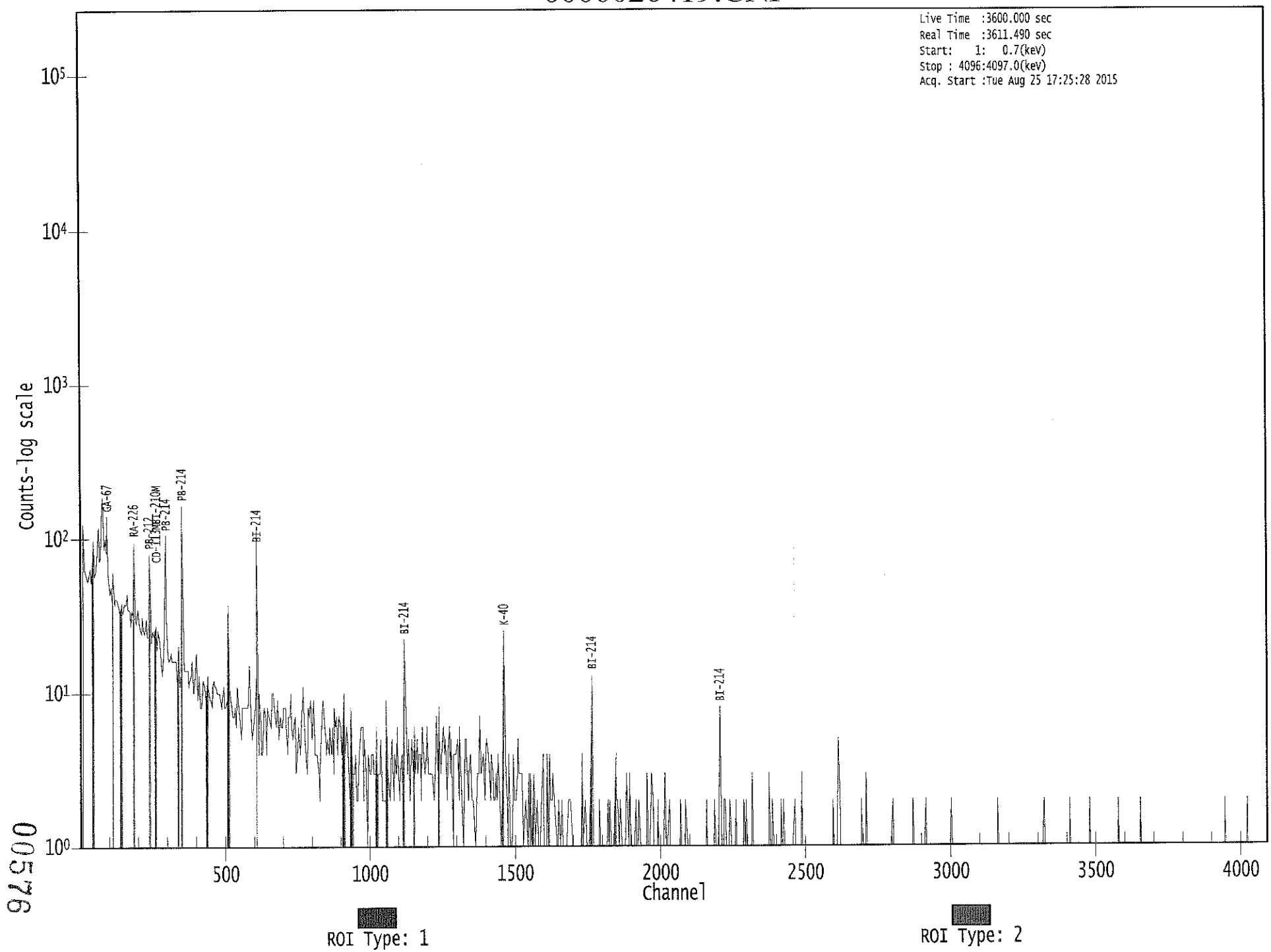
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	1	0	2	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	1	0
3433:	0	1	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	1	0	0
3457:	0	0	0	0	0	0	1	0
3465:	1	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	2	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	0	0	0	0	0
3521:	1	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	1	0	1	1	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	1	0	0	0	0
3577:	2	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	1	0	1
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	1	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	1	0	0	0	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	1	2	1	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	1	0	0	0	1	0	0	0
3697:	1	0	1	0	1	0	0	0
3705:	0	0	0	0	0	0	0	1
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	1	0	0	1	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	1	0	0	0	0	0	0
3761:	0	0	0	0	1	0	0	0
3769:	0	1	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	1	0	0	1	0	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
3833:	0	0	0	0	0	1	0	1
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	1	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	1	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	1	0	0	0	0	0	0	0
3897:	0	0	0	1	0	0	0	0
3905:	0	0	0	0	0	0	1	0
3913:	0	1	0	0	0	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	1	0	0	0	0	0	0
3945:	2	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	1	0	0
3969:	0	0	0	1	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	1
4009:	0	0	1	0	0	0	0	0
4017:	0	0	0	0	0	0	0	2
4025:	0	0	0	0	0	0	0	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	1	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026419.CNF



00576

Apex-Gamma

Analysis Report for 1508002-10
FEEBRIS1D-20 089-090

8/26

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-10
Sample Description	: FEEBRIS1D-20 089-090
Sample Type	: SOIL
Sample Size	: 5.007E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:41:27AM
Acquisition Started	: 8/25/2015 6:18:10PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26423

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 7:18:14PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.90	47.01	0.0000	0.00
2	76.42	76.51	0.0000	0.00
3	87.37	87.46	0.0000	0.00
4	92.68	92.76	0.0000	0.00
5	105.36	105.43	0.0000	0.00
6	130.10	130.15	0.0000	0.00
7	174.36	174.39	0.0000	0.00
8	186.02	186.05	0.0000	0.00
9	210.13	210.15	0.0000	0.00
10	238.83	238.83	0.0000	0.00
11	242.08	242.07	0.0000	0.00
12	270.22	270.20	0.0000	0.00
13	277.05	277.03	0.0000	0.00
14	295.42	295.39	0.0000	0.00
15	300.63	300.59	0.0000	0.00
16	338.54	338.48	0.0000	0.00
17	351.97	351.90	0.0000	0.00
18	410.64	410.54	0.0000	0.00
19	462.86	462.74	0.0000	0.00
20	511.01	510.87	0.0000	0.00
21	583.18	583.00	0.0000	0.00
22	597.06	596.87	0.0000	0.00
23	609.39	609.19	0.0000	0.00
24	658.79	658.58	0.0000	0.00
25	662.19	661.97	0.0000	0.00
26	666.76	666.54	0.0000	0.00
27	729.20	728.96	0.0000	0.00
28	801.19	800.92	0.0000	0.00
29	822.41	822.12	0.0000	0.00
30	860.91	860.61	0.0000	0.00
31	886.98	886.67	0.0000	0.00
32	904.23	903.91	0.0000	0.00
33	911.45	911.12	0.0000	0.00
34	962.35	962.00	0.0000	0.00
35	969.15	968.80	0.0000	0.00
36	972.55	972.20	0.0000	0.00
37	1120.43	1120.03	0.0000	0.00
38	1239.45	1239.00	0.0000	0.00
39	1260.98	1260.52	0.0000	0.00
40	1377.09	1376.59	0.0000	0.00
41	1402.35	1401.85	0.0000	0.00
42	1408.73	1408.23	0.0000	0.00

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1438.02	1437.50	0.0000	0.00
44	1452.62	1452.10	0.0000	0.00
45	1461.12	1460.60	0.0000	0.00
46	1631.79	1631.22	0.0000	0.00
47	1646.00	1645.43	0.0000	0.00
48	1716.33	1715.73	0.0000	0.00
49	1764.74	1764.13	0.0000	0.00
50	1812.28	1811.67	0.0000	0.00
51	2103.97	2103.29	0.0000	0.00
52	2119.10	2118.42	0.0000	0.00
53	2204.91	2204.22	0.0000	0.00
54	2614.56	2613.82	0.0000	0.00
55	2805.25	2804.50	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.90	44	50	47.01	1.75E+02	85.75	1.16E+03	1.29
	2	76.42	72	81	76.51	8.30E+02	131.31	1.99E+03	3.60
	3	87.37	86	89	87.46	6.02E+01	62.83	9.28E+02	1.54
	4	92.68	90	96	92.76	2.66E+02	87.89	1.15E+03	1.51
	5	105.36	103	107	105.43	5.32E+01	54.33	6.04E+02	2.35
	6	130.10	128	133	130.15	6.45E+01	61.12	6.95E+02	1.15
	7	174.36	172	177	174.39	6.70E+01	52.93	5.02E+02	3.46
	8	186.02	181	190	186.05	2.00E+02	84.04	8.94E+02	1.65
	9	210.13	206	213	210.15	5.47E+01	64.78	6.61E+02	1.60
M	10	238.83	234	246	238.83	6.77E+02	68.25	3.69E+02	1.55
m	11	242.08	234	246	242.07	1.52E+02	50.78	3.43E+02	1.56
	12	270.22	267	273	270.20	8.26E+01	49.10	3.79E+02	1.61
	13	277.05	274	280	277.03	5.25E+01	48.45	3.89E+02	1.20
	14	295.42	292	298	295.39	2.73E+02	53.77	3.23E+02	1.95
	15	300.63	299	304	300.59	7.11E+01	39.66	2.62E+02	1.80
	16	338.54	334	342	338.48	1.04E+02	58.50	4.60E+02	1.63
	17	351.97	348	355	351.90	4.36E+02	59.87	3.05E+02	1.36
	18	410.64	406	416	410.54	6.88E+01	52.01	3.22E+02	2.52
	19	462.86	459	466	462.74	3.67E+01	38.52	2.21E+02	1.82
	20	511.01	506	515	510.87	2.12E+02	46.58	1.86E+02	1.81
	21	583.18	578	587	583.00	2.45E+02	51.58	2.40E+02	1.71
	22	597.06	591	604	596.87	6.10E+01	43.38	1.82E+02	10.78
	23	609.39	605	614	609.19	3.56E+02	52.28	1.92E+02	1.88
M	24	658.79	657	669	658.58	1.39E+01	13.02	3.76E+01	2.32
m	25	662.19	657	669	661.97	5.34E+01	26.56	7.93E+01	2.36
m	26	666.76	657	669	666.54	1.67E+01	20.15	5.70E+01	2.57
	27	729.20	725	735	728.96	4.87E+01	37.27	1.59E+02	1.89
	28	801.19	791	809	800.92	5.24E+01	54.19	2.35E+02	13.42
	29	822.41	819	826	822.12	2.02E+01	22.18	6.95E+01	3.29
	30	860.91	857	865	860.61	3.20E+01	26.70	9.00E+01	2.06
	31	886.98	879	895	886.67	5.35E+01	38.20	1.17E+02	9.75
	32	904.23	902	906	903.91	1.51E+01	16.14	4.39E+01	2.46
	33	911.45	907	916	911.12	1.44E+02	38.22	1.30E+02	2.15
M	34	962.35	957	979	962.00	2.35E+01	21.33	7.08E+01	1.99
m	35	969.15	957	979	968.80	9.42E+01	28.16	5.88E+01	2.19
m	36	972.55	957	979	972.20	1.77E+01	25.15	4.94E+01	2.19
	37	1120.43	1115	1125	1120.03	1.11E+02	33.86	9.46E+01	2.84
	38	1239.45	1235	1243	1239.00	2.93E+01	30.91	1.25E+02	3.46
	39	1260.98	1257	1264	1260.52	1.75E+01	19.60	5.31E+01	3.56
	40	1377.09	1371	1383	1376.59	2.36E+01	21.90	4.48E+01	4.15

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	1402.35	1399 -	1412	1401.85	1.84E+01	11.18	1.64E+01	2.51
m	42	1408.73	1399 -	1412	1408.23	1.65E+01	13.27	1.83E+01	2.51
	43	1438.02	1434 -	1441	1437.50	1.33E+01	13.11	1.94E+01	1.68
	44	1452.62	1449 -	1455	1452.10	1.35E+01	13.77	2.50E+01	2.81
	45	1461.12	1456 -	1465	1460.60	6.60E+02	52.69	1.82E+01	2.61
	46	1631.79	1627 -	1634	1631.22	1.14E+01	11.83	1.53E+01	2.71
	47	1646.00	1641 -	1649	1645.43	1.41E+01	10.61	7.78E+00	5.28
	48	1716.33	1712 -	1720	1715.73	8.50E+00	8.02	5.00E+00	3.47
	49	1764.74	1758 -	1768	1764.13	7.40E+01	21.47	2.20E+01	2.65
	50	1812.28	1808 -	1813	1811.67	6.00E+00	4.90	0.00E+00	1.47
	51	2103.97	2099 -	2109	2103.29	1.33E+01	13.22	1.55E+01	3.63
	52	2119.10	2115 -	2121	2118.42	1.12E+01	8.02	3.54E+00	3.76
	53	2204.91	2200 -	2208	2204.22	2.20E+01	10.78	4.08E+00	2.79
	54	2614.56	2609 -	2617	2613.82	8.99E+01	19.70	4.16E+00	1.89
	55	2805.25	2801 -	2806	2804.50	6.00E+00	4.90	0.00E+00	1.16

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.90	44 -	50	1.75E+02	85.75	1.16E+03	6.70E+01
	2	76.42	72 -	81	8.30E+02	131.31	1.99E+03	9.70E+01
	3	87.37	86 -	89	6.02E+01	62.83	9.28E+02	5.00E+01
	4	92.68	90 -	96	2.66E+02	87.89	1.15E+03	6.71E+01
	5	105.36	103 -	107	5.32E+01	54.33	6.04E+02	4.30E+01
	6	130.10	128 -	133	6.45E+01	61.12	6.95E+02	4.85E+01
	7	174.36	172 -	177	6.70E+01	52.93	5.02E+02	4.14E+01
	8	186.02	181 -	190	2.00E+02	84.04	8.94E+02	6.51E+01
	9	210.13	206 -	213	5.47E+01	64.78	6.61E+02	5.18E+01
M	10	238.83	234 -	246	6.77E+02	68.25	3.69E+02	3.16E+01
m	11	242.08	234 -	246	1.52E+02	50.78	3.43E+02	3.04E+01
	12	270.22	267 -	273	8.26E+01	49.10	3.79E+02	3.75E+01
	13	277.05	274 -	280	5.25E+01	48.45	3.89E+02	3.80E+01

00581

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	14	295.42	292 -	298	2.73E+02	53.77	3.23E+02	3.49E+01
	15	300.63	299 -	304	7.11E+01	39.66	2.62E+02	2.95E+01
	16	338.54	334 -	342	1.04E+02	58.50	4.60E+02	4.51E+01
	17	351.97	348 -	355	4.36E+02	59.87	3.05E+02	3.53E+01
	18	410.64	406 -	416	6.88E+01	52.01	3.22E+02	4.05E+01
	19	462.86	459 -	466	3.67E+01	38.52	2.21E+02	3.01E+01
	20	511.01	506 -	515	2.12E+02	46.58	1.86E+02	2.99E+01
	21	583.18	578 -	587	2.45E+02	51.58	2.40E+02	3.37E+01
	22	597.06	591 -	604	6.10E+01	43.38	1.82E+02	3.33E+01
	23	609.39	605 -	614	3.56E+02	52.28	1.92E+02	2.97E+01
M	24	658.79	657 -	669	1.39E+01	13.02	3.76E+01	1.01E+01
m	25	662.19	657 -	669	5.34E+01	26.56	7.93E+01	1.46E+01
m	26	666.76	657 -	669	1.67E+01	20.15	5.70E+01	1.24E+01
	27	729.20	725 -	735	4.87E+01	37.27	1.59E+02	1.26E+01
	28	801.19	791 -	809	5.24E+01	54.19	2.35E+02	4.29E+01
	29	822.41	819 -	826	2.02E+01	22.18	6.95E+01	1.67E+01
	30	860.91	857 -	865	3.20E+01	26.70	9.00E+01	1.99E+01
	31	886.98	879 -	895	5.35E+01	38.20	1.17E+02	2.90E+01
	32	904.23	902 -	906	1.51E+01	16.14	4.39E+01	1.16E+01
	33	911.45	907 -	916	1.44E+02	38.22	1.30E+02	2.45E+01
M	34	962.35	957 -	979	2.35E+01	21.33	7.08E+01	1.38E+01
m	35	969.15	957 -	979	9.42E+01	28.16	5.88E+01	1.26E+01
m	36	972.55	957 -	979	1.77E+01	25.15	4.94E+01	1.16E+01
	37	1120.43	1115 -	1125	1.11E+02	33.86	9.46E+01	2.18E+01
	38	1239.45	1235 -	1243	2.93E+01	30.91	1.25E+02	2.38E+01
	39	1260.98	1257 -	1264	1.75E+01	19.60	5.31E+01	1.46E+01
	40	1377.09	1371 -	1383	2.36E+01	21.90	4.48E+01	1.61E+01
M	41	1402.35	1399 -	1412	1.84E+01	11.18	1.64E+01	6.65E+00
m	42	1408.73	1399 -	1412	1.65E+01	13.27	1.83E+01	7.03E+00
	43	1438.02	1434 -	1441	1.33E+01	13.11	1.94E+01	8.96E+00
	44	1452.62	1449 -	1455	1.35E+01	13.77	2.50E+01	9.58E+00
	45	1461.12	1456 -	1465	6.60E+02	52.69	1.82E+01	9.60E+00
	46	1631.79	1627 -	1634	1.14E+01	11.83	1.53E+01	7.99E+00
	47	1646.00	1641 -	1649	1.41E+01	10.61	7.78E+00	6.15E+00
	48	1716.33	1712 -	1720	8.50E+00	8.02	5.00E+00	4.52E+00
	49	1764.74	1758 -	1768	7.40E+01	21.47	2.20E+01	1.06E+01
	50	1812.28	1808 -	1813	6.00E+00	4.90	0.00E+00	0.00E+00
	51	2103.97	2099 -	2109	1.33E+01	13.22	1.55E+01	9.07E+00
	52	2119.10	2115 -	2121	1.12E+01	8.02	3.54E+00	3.61E+00
	53	2204.91	2200 -	2208	2.20E+01	10.78	4.08E+00	4.38E+00
	54	2614.56	2609 -	2617	8.99E+01	19.70	4.16E+00	4.39E+00
	55	2805.25	2801 -	2806	6.00E+00	4.90	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

00582

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.90	44 -	50	47.01	1.75E+02	85.75	1.16E+03	PB-210
	2	76.42	72 -	81	76.51	8.30E+02	131.31	1.99E+03	.....
	3	87.37	86 -	89	87.46	6.02E+01	62.83	9.28E+02	SN-126
									CD-109
									NP-237
									EU-155
									LU-176
	4	92.68	90 -	96	92.76	2.66E+02	87.89	1.15E+03	GA-67
	5	105.36	103 -	107	105.43	5.32E+01	54.33	6.04E+02	EU-155
									NP-239
	6	130.10	128 -	133	130.15	6.45E+01	61.12	6.95E+02	.....
	7	174.36	172 -	177	174.39	6.70E+01	52.93	5.02E+02	.....
	8	186.02	181 -	190	186.05	2.00E+02	84.04	8.94E+02	RA-226
	9	210.13	206 -	213	210.15	5.47E+01	64.78	6.61E+02	CM-243
M	10	238.83	234 -	246	238.83	6.77E+02	68.25	3.69E+02	PB-212
m	11	242.08	234 -	246	242.07	1.52E+02	50.78	3.43E+02	.....
	12	270.22	267 -	273	270.20	8.26E+01	49.10	3.79E+02	.....
	13	277.05	274 -	280	277.03	5.25E+01	48.45	3.89E+02	CM-243
									NP-239
	14	295.42	292 -	298	295.39	2.73E+02	53.77	3.23E+02	PB-214
	15	300.63	299 -	304	300.59	7.11E+01	39.66	2.62E+02	GA-67
									PB-212
									BI-210M
	16	338.54	334 -	342	338.48	1.04E+02	58.50	4.60E+02	AC-228
	17	351.97	348 -	355	351.90	4.36E+02	59.87	3.05E+02	PB-214
	18	410.64	406 -	416	410.54	6.88E+01	52.01	3.22E+02	HO-166M
	19	462.86	459 -	466	462.74	3.67E+01	38.52	2.21E+02	SB-125
	20	511.01	506 -	515	510.87	2.12E+02	46.58	1.86E+02	.....
	21	583.18	578 -	587	583.00	2.45E+02	51.58	2.40E+02	TL-208
	22	597.06	591 -	604	596.87	6.10E+01	43.38	1.82E+02	.....
	23	609.39	605 -	614	609.19	3.56E+02	52.28	1.92E+02	BI-214
M	24	658.79	657 -	669	658.58	1.39E+01	13.02	3.76E+01	.....
m	25	662.19	657 -	669	661.97	5.34E+01	26.56	7.93E+01	CS-137
m	26	666.76	657 -	669	666.54	1.67E+01	20.15	5.70E+01	SB-126
	27	729.20	725 -	735	728.96	4.87E+01	37.27	1.59E+02	.....
	28	801.19	791 -	809	800.92	5.24E+01	54.19	2.35E+02	CS-134
	29	822.41	819 -	826	822.12	2.02E+01	22.18	6.95E+01	.....
	30	860.91	857 -	865	860.61	3.20E+01	26.70	9.00E+01	TL-208

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	31	886.98	879 -	895	886.67	5.35E+01	38.20	1.17E+02	.....
	32	904.23	902 -	906	903.91	1.51E+01	16.14	4.39E+01	.....
	33	911.45	907 -	916	911.12	1.44E+02	38.22	1.30E+02	AC-228
									LU-172
M	34	962.35	957 -	979	962.00	2.35E+01	21.33	7.08E+01	.....
m	35	969.15	957 -	979	968.80	9.42E+01	28.16	5.88E+01	AC-228
m	36	972.55	957 -	979	972.20	1.77E+01	25.15	4.94E+01	.....
	37	1120.43	1115 -	1125	1120.03	1.11E+02	33.86	9.46E+01	SC-46
									BI-214
									TA-182
	38	1239.45	1235 -	1243	1239.00	2.93E+01	30.91	1.25E+02	.....
	39	1260.98	1257 -	1264	1260.52	1.75E+01	19.60	5.31E+01	I-135
	40	1377.09	1371 -	1383	1376.59	2.36E+01	21.90	4.48E+01	.....
M	41	1402.35	1399 -	1412	1401.85	1.84E+01	11.18	1.64E+01	.....
m	42	1408.73	1399 -	1412	1408.23	1.65E+01	13.27	1.83E+01	EU-152
	43	1438.02	1434 -	1441	1437.50	1.33E+01	13.11	1.94E+01	.....
	44	1452.62	1449 -	1455	1452.10	1.35E+01	13.77	2.50E+01	.....
	45	1461.12	1456 -	1465	1460.60	6.60E+02	52.69	1.82E+01	K-40
	46	1631.79	1627 -	1634	1631.22	1.14E+01	11.83	1.53E+01	.....
	47	1646.00	1641 -	1649	1645.43	1.41E+01	10.61	7.78E+00	.....
	48	1716.33	1712 -	1720	1715.73	8.50E+00	8.02	5.00E+00	.....
	49	1764.74	1758 -	1768	1764.13	7.40E+01	21.47	2.20E+01	BI-214
	50	1812.28	1808 -	1813	1811.67	6.00E+00	4.90	0.00E+00	.....
	51	2103.97	2099 -	2109	2103.29	1.33E+01	13.22	1.55E+01	.....
	52	2119.10	2115 -	2121	2118.42	1.12E+01	8.02	3.54E+00	.....
	53	2204.91	2200 -	2208	2204.22	2.20E+01	10.78	4.08E+00	BI-214
	54	2614.56	2609 -	2617	2613.82	8.99E+01	19.70	4.16E+00	TL-208
	55	2805.25	2801 -	2806	2804.50	6.00E+00	4.90	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	46.90	1.75E+02	85.75	1.37E-02	1.68E-03
2	76.42	8.30E+02	131.31	2.74E-02	3.35E-03

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	3	87.37	6.02E+01	62.83	2.84E-02	4.44E-03
	4	92.68	2.66E+02	87.89	2.85E-02	4.30E-03
	5	105.36	5.32E+01	54.33	2.80E-02	3.73E-03
	6	130.10	6.45E+01	61.12	2.59E-02	2.75E-03
	7	174.36	6.70E+01	52.93	2.20E-02	1.67E-03
	8	186.02	2.00E+02	84.04	2.11E-02	1.65E-03
	9	210.13	5.47E+01	64.78	1.95E-02	1.63E-03
M	10	238.83	6.77E+02	68.25	1.79E-02	1.60E-03
m	11	242.08	1.52E+02	50.78	1.77E-02	1.60E-03
	12	270.22	8.26E+01	49.10	1.64E-02	1.57E-03
	13	277.05	5.25E+01	48.45	1.62E-02	1.56E-03
	14	295.42	2.73E+02	53.77	1.55E-02	1.48E-03
	15	300.63	7.11E+01	39.66	1.53E-02	1.45E-03
	16	338.54	1.04E+02	58.50	1.41E-02	1.27E-03
	17	351.97	4.36E+02	59.87	1.37E-02	1.21E-03
	18	410.64	6.88E+01	52.01	1.23E-02	1.00E-03
	19	462.86	3.67E+01	38.52	1.13E-02	9.47E-04
	20	511.01	2.12E+02	46.58	1.06E-02	8.98E-04
	21	583.18	2.45E+02	51.58	9.58E-03	8.25E-04
	22	597.06	6.10E+01	43.38	9.41E-03	8.11E-04
	23	609.39	3.56E+02	52.28	9.27E-03	7.98E-04
M	24	658.79	1.39E+01	13.02	8.73E-03	7.48E-04
m	25	662.19	5.34E+01	26.56	8.70E-03	7.45E-04
m	26	666.76	1.67E+01	20.15	8.65E-03	7.42E-04
	27	729.20	4.87E+01	37.27	8.07E-03	7.02E-04
	28	801.19	5.24E+01	54.19	7.49E-03	6.56E-04
	29	822.41	2.02E+01	22.18	7.33E-03	6.42E-04
	30	860.91	3.20E+01	26.70	7.06E-03	6.17E-04
	31	886.98	5.35E+01	38.20	6.89E-03	6.00E-04
	32	904.23	1.51E+01	16.14	6.79E-03	5.90E-04
	33	911.45	1.44E+02	38.22	6.74E-03	5.86E-04
M	34	962.35	2.35E+01	21.33	6.45E-03	5.60E-04
m	35	969.15	9.42E+01	28.16	6.41E-03	5.57E-04
m	36	972.55	1.77E+01	25.15	6.40E-03	5.55E-04
	37	1120.43	1.11E+02	33.86	5.70E-03	4.80E-04
	38	1239.45	2.93E+01	30.91	5.27E-03	4.83E-04
	39	1260.98	1.75E+01	19.60	5.20E-03	4.93E-04
	40	1377.09	2.36E+01	21.90	4.87E-03	5.08E-04
M	41	1402.35	1.84E+01	11.18	4.81E-03	4.97E-04
m	42	1408.73	1.65E+01	13.27	4.79E-03	4.95E-04
	43	1438.02	1.33E+01	13.11	4.72E-03	4.83E-04
	44	1452.62	1.35E+01	13.77	4.69E-03	4.77E-04
	45	1461.12	6.60E+02	52.69	4.67E-03	4.73E-04
	46	1631.79	1.14E+01	11.83	4.36E-03	4.02E-04
	47	1646.00	1.41E+01	10.61	4.34E-03	3.97E-04
	48	1716.33	8.50E+00	8.02	4.24E-03	3.67E-04
	49	1764.74	7.40E+01	21.47	4.18E-03	3.47E-04
	50	1812.28	6.00E+00	4.90	4.13E-03	3.28E-04
	51	2103.97	1.33E+01	13.22	3.95E-03	3.18E-04
	52	2119.10	1.12E+01	8.02	3.95E-03	3.18E-04
	53	2204.91	2.20E+01	10.78	3.93E-03	3.18E-04
	54	2614.56	8.99E+01	19.70	4.05E-03	3.18E-04
	55	2805.25	6.00E+00	4.90	4.21E-03	3.18E-04

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.90	1.75E+02	85.75	7.29E+01	8.80E+00	1.03E+02	8.62E+01
	2	76.42	8.30E+02	131.31			8.30E+02	1.31E+02
	3	87.37	6.02E+01	62.83	6.84E+00	1.23E+00	5.34E+01	6.28E+01
	4	92.68	2.66E+02	87.89	6.54E+01	3.76E+00	2.00E+02	8.80E+01
	5	105.36	5.32E+01	54.33			5.32E+01	5.43E+01
	6	130.10	6.45E+01	61.12			6.45E+01	6.11E+01
	7	174.36	6.70E+01	52.93			6.70E+01	5.29E+01
	8	186.02	2.00E+02	84.04	4.78E+01	7.95E+00	1.52E+02	8.44E+01
	9	210.13	5.47E+01	64.78			5.47E+01	6.48E+01
M	10	238.83	6.77E+02	68.25	1.43E+01	7.07E+00	6.63E+02	6.86E+01
m	11	242.08	1.52E+02	50.78			1.52E+02	5.08E+01
	12	270.22	8.26E+01	49.10	1.77E+00	6.25E+00	8.08E+01	4.95E+01
	13	277.05	5.25E+01	48.45			5.25E+01	4.85E+01
	14	295.42	2.73E+02	53.77	9.61E+00	5.92E+00	2.64E+02	5.41E+01
	15	300.63	7.11E+01	39.66			7.11E+01	3.97E+01
	16	338.54	1.04E+02	58.50			1.04E+02	5.85E+01
	17	351.97	4.36E+02	59.87	1.56E+01	5.52E+00	4.20E+02	6.01E+01
	18	410.64	6.88E+01	52.01			6.88E+01	5.20E+01
	19	462.86	3.67E+01	38.52			3.67E+01	3.85E+01
	20	511.01	2.12E+02	46.58	8.01E+01	5.53E+00	1.32E+02	4.69E+01
	21	583.18	2.45E+02	51.58	6.24E+00	3.96E+00	2.39E+02	5.17E+01
	22	597.06	6.10E+01	43.38			6.10E+01	4.34E+01
	23	609.39	3.56E+02	52.28	1.38E+01	3.84E+00	3.42E+02	5.24E+01
M	24	658.79	1.39E+01	13.02			1.39E+01	1.30E+01
m	25	662.19	5.34E+01	26.56	9.64E+00	3.60E+00	4.38E+01	2.68E+01
m	26	666.76	1.67E+01	20.15			1.67E+01	2.01E+01
	27	729.20	4.87E+01	37.27			4.87E+01	3.73E+01
	28	801.19	5.24E+01	54.19			5.24E+01	5.42E+01
	29	822.41	2.02E+01	22.18			2.02E+01	2.22E+01
	30	860.91	3.20E+01	26.70			3.20E+01	2.67E+01
	31	886.98	5.35E+01	38.20			5.35E+01	3.82E+01
	32	904.23	1.51E+01	16.14			1.51E+01	1.61E+01
	33	911.45	1.44E+02	38.22	7.18E+00	2.77E+00	1.37E+02	3.83E+01
M	34	962.35	2.35E+01	21.33			2.35E+01	2.13E+01
m	35	969.15	9.42E+01	28.16			9.42E+01	2.82E+01

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	36	972.55	1.77E+01	25.15			1.77E+01	2.52E+01
	37	1120.43	1.11E+02	33.86	3.25E+00	2.68E+00	1.07E+02	3.40E+01
	38	1239.45	2.93E+01	30.91	1.77E+00	2.41E+00	2.75E+01	3.10E+01
	39	1260.98	1.75E+01	19.60			1.75E+01	1.96E+01
	40	1377.09	2.36E+01	21.90			2.36E+01	2.19E+01
M	41	1402.35	1.84E+01	11.18			1.84E+01	1.12E+01
m	42	1408.73	1.65E+01	13.27			1.65E+01	1.33E+01
	43	1438.02	1.33E+01	13.11			1.33E+01	1.31E+01
	44	1452.62	1.35E+01	13.77			1.35E+01	1.38E+01
	45	1461.12	6.60E+02	52.69	1.14E+01	2.53E+00	6.49E+02	5.27E+01
	46	1631.79	1.14E+01	11.83			1.14E+01	1.18E+01
	47	1646.00	1.41E+01	10.61			1.41E+01	1.06E+01
	48	1716.33	8.50E+00	8.02			8.50E+00	8.02E+00
	49	1764.74	7.40E+01	21.47	3.50E+00	2.20E+00	7.05E+01	2.16E+01
	50	1812.28	6.00E+00	4.90			6.00E+00	4.90E+00
	51	2103.97	1.33E+01	13.22			1.33E+01	1.32E+01
	52	2119.10	1.12E+01	8.02			1.12E+01	8.02E+00
	53	2204.91	2.20E+01	10.78			2.20E+01	1.08E+01
	54	2614.56	8.99E+01	19.70	8.08E+00	1.71E+00	8.18E+01	1.98E+01
	55	2805.25	6.00E+00	4.90			6.00E+00	4.90E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	46.90	1.75E+02	85.75	7.29E+01	8.80E+00	1.03E+02	8.62E+01
2	76.42	8.30E+02	131.31			8.30E+02	1.31E+02
3	87.37	6.02E+01	62.83	6.84E+00	1.23E+00	5.34E+01	6.28E+01
4	92.68	2.66E+02	87.89	6.54E+01	3.76E+00	2.00E+02	8.80E+01
5	105.36	5.32E+01	54.33			5.32E+01	5.43E+01
6	130.10	6.45E+01	61.12			6.45E+01	6.11E+01
7	174.36	6.70E+01	52.93			6.70E+01	5.29E+01
8	186.02	2.00E+02	84.04	4.78E+01	7.95E+00	1.52E+02	8.44E+01

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	9	210.13	5.47E+01	64.78			5.47E+01	6.48E+01
M	10	238.83	6.77E+02	68.25	1.43E+01	7.07E+00	6.63E+02	6.86E+01
m	11	242.08	1.52E+02	50.78			1.52E+02	5.08E+01
	12	270.22	8.26E+01	49.10	1.77E+00	6.25E+00	8.08E+01	4.95E+01
	13	277.05	5.25E+01	48.45			5.25E+01	4.85E+01
	14	295.42	2.73E+02	53.77	9.61E+00	5.92E+00	2.64E+02	5.41E+01
	15	300.63	7.11E+01	39.66			7.11E+01	3.97E+01
	16	338.54	1.04E+02	58.50			1.04E+02	5.85E+01
	17	351.97	4.36E+02	59.87	1.56E+01	5.52E+00	4.20E+02	6.01E+01
	18	410.64	6.88E+01	52.01			6.88E+01	5.20E+01
	19	462.86	3.67E+01	38.52			3.67E+01	3.85E+01
	20	511.01	2.12E+02	46.58	8.01E+01	5.53E+00	1.32E+02	4.69E+01
	21	583.18	2.45E+02	51.58	6.24E+00	3.96E+00	2.39E+02	5.17E+01
	22	597.06	6.10E+01	43.38			6.10E+01	4.34E+01
	23	609.39	3.56E+02	52.28	1.38E+01	3.84E+00	3.42E+02	5.24E+01
M	24	658.79	1.39E+01	13.02			1.39E+01	1.30E+01
m	25	662.19	5.34E+01	26.56	9.64E+00	3.60E+00	4.38E+01	2.68E+01
m	26	666.76	1.67E+01	20.15			1.67E+01	2.01E+01
	27	729.20	4.87E+01	37.27			4.87E+01	3.73E+01
	28	801.19	5.24E+01	54.19			5.24E+01	5.42E+01
	29	822.41	2.02E+01	22.18			2.02E+01	2.22E+01
	30	860.91	3.20E+01	26.70			3.20E+01	2.67E+01
	31	886.98	5.35E+01	38.20			5.35E+01	3.82E+01
	32	904.23	1.51E+01	16.14			1.51E+01	1.61E+01
	33	911.45	1.44E+02	38.22	7.18E+00	2.77E+00	1.37E+02	3.83E+01
M	34	962.35	2.35E+01	21.33			2.35E+01	2.13E+01
m	35	969.15	9.42E+01	28.16			9.42E+01	2.82E+01
m	36	972.55	1.77E+01	25.15			1.77E+01	2.52E+01
	37	1120.43	1.11E+02	33.86	3.25E+00	2.68E+00	1.07E+02	3.40E+01
	38	1239.45	2.93E+01	30.91	1.77E+00	2.41E+00	2.75E+01	3.10E+01
	39	1260.98	1.75E+01	19.60			1.75E+01	1.96E+01
	40	1377.09	2.36E+01	21.90			2.36E+01	2.19E+01
M	41	1402.35	1.84E+01	11.18			1.84E+01	1.12E+01
m	42	1408.73	1.65E+01	13.27			1.65E+01	1.33E+01
	43	1438.02	1.33E+01	13.11			1.33E+01	1.31E+01
	44	1452.62	1.35E+01	13.77			1.35E+01	1.38E+01
	45	1461.12	6.60E+02	52.69	1.14E+01	2.53E+00	6.49E+02	5.27E+01
	46	1631.79	1.14E+01	11.83			1.14E+01	1.18E+01
	47	1646.00	1.41E+01	10.61			1.41E+01	1.06E+01
	48	1716.33	8.50E+00	8.02			8.50E+00	8.02E+00
	49	1764.74	7.40E+01	21.47	3.50E+00	2.20E+00	7.05E+01	2.16E+01
	50	1812.28	6.00E+00	4.90			6.00E+00	4.90E+00
	51	2103.97	1.33E+01	13.22			1.33E+01	1.32E+01
	52	2119.10	1.12E+01	8.02			1.12E+01	8.02E+00
	53	2204.91	2.20E+01	10.78			2.20E+01	1.08E+01
	54	2614.56	8.99E+01	19.70	8.08E+00	1.71E+00	8.18E+01	1.98E+01
	55	2805.25	6.00E+00	4.90			6.00E+00	4.90E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.985	1460.81	*	10.67	1.95E+01	2.57E+00
GA-67	0.643	93.31	*	35.70	7.97E+01	2.90E+02
		208.95		2.24		
		300.22	*	16.00	1.18E+02	4.30E+02
CS-137	0.954	661.65	*	85.12	8.88E-02	5.49E-02
EU-155	0.929	86.50	*	30.90	9.21E-02	1.09E-01
		105.30	*	20.70	1.39E-01	1.43E-01
TL-208	0.996	583.14	*	30.22	1.24E+00	2.88E-01
		860.37	*	4.48	1.52E+00	1.27E+00
		2614.66	*	35.85	8.45E-01	2.15E-01
PB-210	0.974	46.50	*	4.25	2.65E+00	2.25E+00
PB-212	0.991	238.63	*	44.60	1.25E+00	1.71E-01
		300.09	*	3.41	2.05E+00	1.16E+00
BI-214	0.992	609.31	*	46.30	1.20E+00	2.10E-01
		1120.29	*	15.10	1.87E+00	6.12E-01
		1764.49	*	15.80	1.60E+00	5.07E-01
		2204.22	*	4.98	1.68E+00	8.37E-01
PB-214	0.997	295.21	*	19.19	1.33E+00	3.02E-01
		351.92	*	37.19	1.23E+00	2.07E-01
RA-226	0.994	186.21	*	3.28	3.30E+00	6.31E+00
AC-228	0.987	338.32	*	11.40	9.71E-01	5.53E-01
		911.07	*	27.70	1.10E+00	3.22E-01
		969.11	*	16.60	1.33E+00	4.13E-01
CM-243	0.347	209.75	*	3.29	1.28E+00	1.52E+00
		228.14		10.60		
		277.60	*	14.00	3.49E-01	3.24E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 7:18:14PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.42	2.30583E-01	7.91		
	6	130.10	1.79275E-02	47.35		
	7	174.36	1.86190E-02	39.49	Sum	
m	11	242.08	4.22675E-02	16.68		
	12	270.22	2.24468E-02	30.63		
	18	410.64	1.91129E-02	37.79	Tol.	HO-166M
	19	462.86	1.02041E-02	52.43	Sum	
	20	511.01	3.66264E-02	17.79	Sum	
	22	597.06	1.69444E-02	35.56		
M	24	658.79	3.85191E-03	46.94		
m	26	666.76	4.63188E-03	60.42	Tol.	SB-126
	27	729.20	1.35319E-02	38.26		
	28	801.19	1.45670E-02	51.66	Tol.	CS-134
	29	822.41	5.62121E-03	54.80	Sum	
	31	886.98	1.48487E-02	35.73	Sum	
	32	904.23	4.18168E-03	53.61	Sum	
M	34	962.35	6.52796E-03	45.38	Sum	
m	36	972.55	4.90730E-03	71.19		
	38	1239.45	7.64827E-03	56.30		
	39	1260.98	4.84848E-03	56.13		
	40	1377.09	6.54891E-03	46.45		
M	41	1402.35	5.10891E-03	30.39		
m	42	1408.73	4.58368E-03	40.20	Tol.	EU-152
	43	1438.02	3.68961E-03	49.37		
	44	1452.62	3.75000E-03	51.02		
	46	1631.79	3.15789E-03	52.04	Sum	
	47	1646.00	3.91975E-03	37.58		
	48	1716.33	2.36111E-03	47.15		
	50	1812.28	1.66667E-03	40.82	Sum	
	51	2103.97	3.68386E-03	49.84	S-Esc	
	52	2119.10	3.11966E-03	35.69		
	55	2805.25	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	1.95E+01	2.57E+00
GA-67	0.64	93.31	*	35.70	7.97E+01	2.90E+02
		208.95		2.24		
		300.22	*	16.00	1.18E+02	4.30E+02
CS-137	0.95	661.65	*	85.12	8.88E-02	5.49E-02
EU-155	0.92	86.50	*	30.90	9.21E-02	1.09E-01
		105.30	*	20.70	1.39E-01	1.43E-01
TL-208	0.99	583.14	*	30.22	1.24E+00	2.88E-01
		860.37	*	4.48	1.52E+00	1.27E+00
		2614.66	*	35.85	8.45E-01	2.15E-01
PB-210	0.97	46.50	*	4.25	2.65E+00	2.25E+00
PB-212	0.99	238.63	*	44.60	1.25E+00	1.71E-01
		300.09	*	3.41	2.05E+00	1.16E+00
BI-214	0.99	609.31	*	46.30	1.20E+00	2.10E-01
		1120.29	*	15.10	1.87E+00	6.12E-01
		1764.49	*	15.80	1.60E+00	5.07E-01
		2204.22	*	4.98	1.68E+00	8.37E-01
PB-214	0.99	295.21	*	19.19	1.33E+00	3.02E-01
		351.92	*	37.19	1.23E+00	2.07E-01
RA-226	0.99	186.21	*	3.28	3.30E+00	6.31E+00
AC-228	0.98	338.32	*	11.40	9.71E-01	5.53E-01
		911.07	*	27.70	1.10E+00	3.22E-01
		969.11	*	16.60	1.33E+00	4.13E-01
CM-243	0.34	209.75	*	3.29	1.28E+00	1.52E+00
		228.14		10.60		
		277.60	*	14.00	3.49E-01	3.24E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.985	1.95E+01	2.57E+00	
	GA-67	0.643	7.18E+01	2.49E+02	
X	CD-109	0.933			
X	SN-126	0.994			
	CS-137	0.954	8.88E-02	5.49E-02	
	EU-155	0.929	1.09E-01	8.69E-02	
	TL-208	0.996	9.94E-01	1.71E-01	
	PB-210	0.974	2.65E+00	2.25E+00	
	PB-212	0.991	1.24E+00	1.69E-01	
	BI-214	0.992	1.33E+00	1.81E-01	
	PB-214	0.997	1.27E+00	1.71E-01	
	RA-226	0.994	3.30E+00	6.31E+00	
	AC-228	0.987	1.15E+00	2.31E-01	
X	NP-237	0.886			
X	NP-239	0.330			
	CM-243	0.347	3.89E-01	3.16E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 7:18:14PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.42	2.30583E-01	7.91		
	6	130.10	1.79275E-02	47.35		
	7	174.36	1.86190E-02	39.49	Sum	
m	11	242.08	4.22675E-02	16.68		
	12	270.22	2.24468E-02	30.63		
	18	410.64	1.91129E-02	37.79	Tol.	HO-166M
	19	462.86	1.02041E-02	52.43	Sum	
	20	511.01	3.66264E-02	17.79	Sum	
	22	597.06	1.69444E-02	35.56		
M	24	658.79	3.85191E-03	46.94		
m	26	666.76	4.63188E-03	60.42	Tol.	SB-126
	27	729.20	1.35319E-02	38.26		
	28	801.19	1.45670E-02	51.66	Tol.	CS-134
	29	822.41	5.62121E-03	54.80	Sum	
	31	886.98	1.48487E-02	35.73	Sum	
	32	904.23	4.18168E-03	53.61	Sum	
M	34	962.35	6.52796E-03	45.38	Sum	
m	36	972.55	4.90730E-03	71.19		
	38	1239.45	7.64827E-03	56.30		
	39	1260.98	4.84848E-03	56.13		
	40	1377.09	6.54891E-03	46.45		
M	41	1402.35	5.10891E-03	30.39		
m	42	1408.73	4.58368E-03	40.20	Tol.	EU-152
	43	1438.02	3.68961E-03	49.37		
	44	1452.62	3.75000E-03	51.02		
	46	1631.79	3.15789E-03	52.04	Sum	
	47	1646.00	3.91975E-03	37.58		
	48	1716.33	2.36111E-03	47.15		
	50	1812.28	1.66667E-03	40.82	Sum	
	51	2103.97	3.68386E-03	49.84	S-Esc	
	52	2119.10	3.11966E-03	35.69		
	55	2805.25	1.66667E-03	40.82		

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-2.34E-01	7.29E-01	7.29E-01
+	NA-22	1274.54		99.94	-4.28E-02	8.23E-02	8.23E-02
+	NA-24	1368.53		99.99	6.29E+10	1.62E+11	2.90E+11
		2754.09		99.86	3.50E+10		1.62E+11
+	AL-26	1808.65		99.76	7.26E-03	5.76E-02	5.76E-02
+	K-40	1460.81	*	10.67	1.95E+01	7.60E-01	7.60E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-2.19E-02	5.25E-02	5.25E-02
		78.34		96.00	2.59E-01		7.58E-02
+	SC-46	889.25		99.98	2.29E-02	9.74E-02	9.74E-02
		1120.51		99.99	3.16E-01		1.86E-01
+	V-48	983.52		99.98	1.31E-02	2.36E-01	2.36E-01
		1312.10		97.50	8.46E-02		2.78E-01
+	CR-51	320.08		9.83	-3.66E-01	9.87E-01	9.87E-01
+	MN-54	834.83		99.97	1.22E-02	8.24E-02	8.24E-02
+	CO-56	846.75		99.96	-1.80E-02	8.68E-02	8.68E-02
		1037.75		14.03	1.42E-01		7.69E-01
		1238.25		67.00	9.66E-02		2.34E-01
		1771.40		15.51	-5.47E-02		5.49E-01
		2598.48		16.90	5.54E-02		2.57E-01
+	CO-57	122.06		85.51	2.75E-02	6.14E-02	6.14E-02
		136.48		10.60	-4.43E-02		5.02E-01
+	CO-58	810.76		99.40	2.39E-02	9.46E-02	9.46E-02
+	FE-59	1099.22		56.50	1.80E-02	2.11E-01	2.11E-01
		1291.56		43.20	2.61E-02		3.44E-01
+	CO-60	1173.22		100.00	2.39E-02	8.02E-02	9.62E-02
		1332.49		100.00	2.19E-02		8.02E-02
+	ZN-65	1115.52		50.75	8.34E-03	1.77E-01	1.77E-01
+	GA-67	93.31	*	35.70	7.97E+01	5.56E+01	5.56E+01
		208.95		2.24	1.98E+02		7.11E+02
		300.22	*	16.00	1.18E+02		1.02E+02
+	SE-75	121.11		16.70	9.97E-02	9.72E-02	3.39E-01

00594

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	6.95E-03	9.72E-02	9.72E-02
		264.65		59.80	3.03E-02		1.06E-01
		279.53		25.20	2.29E-02		2.68E-01
		400.65		11.40	2.80E-01		6.34E-01
+	RB-82	776.52		13.00	-5.31E-02	1.20E+00	1.20E+00
+	RB-83	520.41		46.00	6.58E-02	1.57E-01	1.57E-01
		529.64		30.30	1.59E-02		2.23E-01
		552.65		16.40	-1.88E-01		4.18E-01
+	KR-85	513.99		0.43	-1.50E+01	1.54E+01	1.54E+01
+	SR-85	513.99		99.27	-8.63E-02	8.87E-02	8.87E-02
+	Y-88	898.02		93.40	1.49E-02	7.26E-02	9.17E-02
		1836.01		99.38	6.93E-03		7.26E-02
+	NB-93M	16.57		9.43	-1.38E+04	5.98E+03	5.98E+03
+	NB-94	702.63		100.00	8.23E-04	7.34E-02	7.41E-02
		871.10		100.00	-1.88E-02		7.34E-02
+	NB-95	765.79		99.81	1.17E-01	1.49E-01	1.49E-01
+	NB-95M	235.69		25.00	-3.59E+02	5.16E+01	5.16E+01
+	ZR-95	724.18		43.70	6.03E-02	1.73E-01	2.56E-01
		756.72		55.30	-5.74E-02		1.73E-01
+	MO-99	181.06		6.20	1.54E+02	4.30E+02	6.48E+02
		739.58		12.80	-1.35E+02		4.30E+02
		778.00		4.50	1.93E+02		1.25E+03
+	RU-103	497.08		89.00	-3.34E-02	1.03E-01	1.03E-01
+	RU-106	621.84		9.80	-1.08E-01	7.33E-01	7.33E-01
+	AG-108M	433.93		89.90	8.20E-03	5.69E-02	5.69E-02
		614.37		90.40	2.16E-02		8.48E-02
		722.95		90.50	3.16E-02		8.55E-02
+	CD-109	88.03	*	3.72	7.87E-01	1.52E+00	1.52E+00
+	AG-110M	657.75		93.14	6.54E-03	9.32E-02	9.32E-02
		677.61		10.53	-2.14E-01		6.73E-01
		706.67		16.46	2.48E-02		4.80E-01
		763.93		21.98	-3.62E-01		3.63E-01
		884.67		71.63	8.43E-03		1.17E-01
		1384.27		23.94	-2.22E-02		2.88E-01
+	CD-113M	263.70		0.02	-1.11E+01	2.39E+02	2.39E+02
+	SN-113	255.12		1.93	1.07E+00	1.01E-01	3.23E+00
		391.69		64.90	-8.36E-03		1.01E-01
+	TE123M	159.00		84.10	8.63E-04	7.39E-02	7.39E-02
+	SB-124	602.71		97.87	-2.17E-01	9.12E-02	9.12E-02
		645.85		7.26	2.75E-01		1.16E+00
		722.78		11.10	3.49E-01		9.43E-01
		1691.02		49.00	-1.14E-01		1.46E-01
+	I-125	35.49		6.49	-1.31E-01	5.53E+00	5.53E+00
+	SB-125	176.33		6.89	-2.63E-01	1.89E-01	7.75E-01
		427.89		29.33	3.55E-02		1.89E-01
		463.38		10.35	4.91E-01		6.59E-01
		600.56		17.80	1.52E-01		3.96E-01
		635.90		11.32	1.80E-01		6.17E-01

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	-5.82E-02	2.90E-01	2.90E-01
		666.33		99.60	-1.60E-01		3.16E-01
		695.00		99.60	2.66E-02		3.28E-01
		720.50		53.80	1.55E-01		6.13E-01
+	SN-126	87.57	*	37.00	7.61E-02	1.47E-01	1.47E-01
+	SB-127	473.00		25.00	1.81E+01	2.22E+01	2.78E+01
		685.20		35.70	-5.31E+00		2.22E+01
		783.80		14.70	3.27E+01		6.17E+01
+	I-129	29.78		57.00	-1.40E-01	1.23E+00	1.23E+00
		33.60		13.20	-9.64E-01		2.61E+00
		39.58		7.52	1.51E-01		2.20E+00
+	I-131	284.30		6.05	1.81E+00	6.12E-01	8.70E+00
		364.48		81.20	-3.41E-01		6.12E-01
		636.97		7.26	4.81E+00		9.29E+00
		722.89		1.80	1.54E+01		4.16E+01
+	TE-132	49.72		13.10	-1.05E+02	1.67E+01	1.35E+02
		228.16		88.00	-3.84E+00		1.67E+01
+	BA-133	81.00		33.00	6.20E-02	8.46E-02	1.34E-01
		302.84		17.80	-1.98E-01		3.28E-01
		356.01		60.00	2.37E-03		8.46E-02
+	I-133	529.87		86.30	-1.37E+07	8.99E+07	8.99E+07
+	XE-133	81.00		38.00	1.74E+00	3.78E+00	3.78E+00
+	CS-134	563.23		8.38	1.50E-01	8.58E-02	7.50E-01
		569.32		15.43	1.15E-01		4.33E-01
		604.70		97.60	-6.84E-01		8.58E-02
		795.84		85.40	4.67E-02		9.88E-02
		801.93		8.73	-2.83E-01		9.04E-01
+	CS-135	268.24		16.00	4.60E-03	3.79E-01	3.79E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	-3.01E-01	2.51E-01	2.83E+00
		163.89		4.61	2.52E+00		4.58E+00
		176.55		13.56	-7.80E-02		1.52E+00
		273.65		12.66	-1.54E+00		1.79E+00
		340.57		48.50	-4.68E-01		5.40E-01
		818.50		99.70	2.73E-03		2.51E-01
		1048.07		79.60	1.40E-02		4.34E-01
		1235.34		19.70	-3.85E-02		2.35E+00
+	CS-137	661.65	*	85.12	8.88E-02	1.18E-01	1.18E-01
+	LA-138	788.74		34.00	7.64E-02	1.10E-01	2.27E-01
		1435.80		66.00	-4.80E-03		1.10E-01
+	CE-139	165.85		80.35	-2.07E-02	7.35E-02	7.35E-02
+	BA-140	162.64		6.70	8.31E-02	9.59E-01	3.27E+00
		304.84		4.50	4.55E-01		5.04E+00
		423.70		3.20	3.50E+00		7.70E+00
		437.55		2.00	2.72E+00		1.10E+01
		537.32		25.00	-1.23E-01		9.59E-01
+	LA-140	328.77		20.50	1.12E+00	3.98E-01	1.37E+00

Analysis Report for 1508002-10

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03		45.50	-1.12E-02	3.98E-01	5.12E-01
		815.85		23.50	-2.16E-01		1.03E+00
		1596.49		95.49	2.25E-01		3.98E-01
+	CE-141	145.44		48.40	1.23E-01	1.92E-01	1.92E-01
+	CE-143	57.36		11.80	-7.72E+04	1.10E+05	2.49E+05
		293.26		42.00	-4.42E+04		1.10E+05
		664.55		5.20	1.19E+06		9.99E+05
+	CE-144	133.54		10.80	6.29E-03	4.93E-01	4.93E-01
+	PM-144	476.78		42.00	-4.33E-02	7.64E-02	1.35E-01
		618.01		98.60	1.02E-02		7.64E-02
		696.49		99.49	3.93E-02		7.99E-02
+	PM-145	36.85		21.70	3.00E-01	5.32E-01	1.04E+00
		37.36		39.70	1.54E-01		5.32E-01
		42.30		15.10	-1.33E-01		8.62E-01
		72.40		2.31	-2.14E+00		2.06E+00
+	PM-146	453.90		39.94	-3.38E-02	1.43E-01	1.43E-01
		735.90		14.01	-1.32E-01		5.30E-01
		747.13		13.10	1.33E-01		5.95E-01
+	ND-147	91.11		28.90	-3.93E-01	1.18E+00	1.18E+00
		531.02		13.10	-1.73E+00		2.03E+00
+	PM-149	285.90		3.10	-2.60E+02	6.86E+03	6.86E+03
+	EU-152	121.78		20.50	1.08E-01	2.40E-01	2.40E-01
		244.69		5.40	-2.02E+00		1.09E+00
		344.27		19.13	4.52E-02		2.95E-01
		778.89		9.20	-2.41E-01		7.88E-01
		964.01		10.40	-2.40E+00		1.04E+00
		1085.78		7.22	-6.32E-01		1.09E+00
		1112.02		9.60	-1.86E-01		7.93E-01
		1407.95		14.94	-9.16E-02		5.05E-01
+	GD-153	97.43		31.30	9.57E-02	1.61E-01	1.61E-01
		103.18		22.20	2.45E-03		2.30E-01
+	EU-154	123.07		40.50	-1.32E-01	1.17E-01	1.17E-01
		723.30		19.70	1.46E-01		3.95E-01
		873.19		11.50	2.04E-01		6.87E-01
		996.32		10.30	-3.45E-02		7.67E-01
		1004.76		17.90	6.29E-02		4.30E-01
		1274.45		35.50	-1.19E-01		2.29E-01
+	EU-155	86.50	*	30.90	9.21E-02	1.78E-01	1.78E-01
		105.30	*	20.70	1.39E-01		2.32E-01
+	EU-156	811.77		10.40	5.62E-01	2.20E+00	2.20E+00
		1153.47		7.20	2.14E-01		4.59E+00
		1230.71		8.90	-1.19E+00		3.59E+00
+	HO-166M	184.41		72.60	2.65E-02	8.92E-02	8.92E-02
		280.45		29.60	1.68E-02		1.96E-01
		410.94		11.10	3.55E-01		5.97E-01
		711.69		54.10	2.36E-02		1.40E-01
+	TM-171	66.72		0.14	1.64E+01	3.79E+01	3.79E+01
+	HF-172	81.75		4.52	-7.91E-01	4.39E-01	9.80E-01
		125.81		11.30	1.33E-01		4.39E-01

Analysis Report for 1508002-10

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	-2.63E+00	2.32E+00	3.94E+00
		810.06		16.63	1.68E+00		6.66E+00
		912.12		15.25	3.12E+01		1.49E+01
		1093.66		62.50	8.29E-01		2.32E+00
+	LU-173	100.72		5.24	5.06E-01	3.13E-01	9.41E-01
		272.11		21.20	5.57E-02		3.13E-01
+	HF-175	343.40		84.00	-2.19E-03	8.95E-02	8.95E-02
+	LU-176	88.34		13.30	2.40E-01	5.54E-02	4.87E-01
		201.83		86.00	-1.20E-02		6.21E-02
		306.78		94.00	-6.35E-03		5.54E-02
+	TA-182	67.75		41.20	-5.89E-02	1.41E-01	1.41E-01
		1121.30		34.90	9.18E-01		5.11E-01
		1189.05		16.23	2.49E-01		7.29E-01
		1221.41		26.98	-7.64E-02		4.23E-01
		1231.02		11.44	1.32E-01		1.05E+00
+	IR-192	308.46		29.68	-2.69E-02	1.33E-01	2.26E-01
		468.07		48.10	-5.07E-02		1.33E-01
+	HG-203	279.19		77.30	3.60E-02	1.14E-01	1.14E-01
+	BI-207	569.67		97.72	1.77E-02	6.69E-02	6.69E-02
		1063.62		74.90	-1.50E-02		1.06E-01
+	TL-208	583.14	*	30.22	1.24E+00	1.64E-01	3.67E-01
		860.37	*	4.48	1.52E+00		2.01E+00
		2614.66	*	35.85	8.45E-01		1.64E-01
+	BI-210M	262.00		45.00	4.46E-02	1.28E-01	1.28E-01
		300.00		23.00	4.98E-02		2.68E-01
+	PB-210	46.50	*	4.25	2.65E+00	3.63E+00	3.63E+00
+	PB-211	404.84		2.90	-3.38E-01	1.96E+00	1.96E+00
		831.96		2.90	-2.24E-01		2.65E+00
+	BI-212	727.17		11.80	3.71E-01	7.47E-01	7.47E-01
		1620.62		2.75	-4.46E-01		2.43E+00
+	PB-212	238.63	*	44.60	1.25E+00	2.64E-01	2.64E-01
		300.09	*	3.41	2.05E+00		1.78E+00
+	BI-214	609.31	*	46.30	1.20E+00	2.23E-01	2.23E-01
		1120.29	*	15.10	1.87E+00		8.18E-01
		1764.49	*	15.80	1.60E+00		5.67E-01
		2204.22	*	4.98	1.68E+00		8.79E-01
+	PB-214	295.21	*	19.19	1.33E+00	2.21E-01	3.73E-01
		351.92	*	37.19	1.23E+00		2.21E-01
+	RN-219	401.80		6.50	5.09E-01	9.36E-01	9.36E-01
+	RA-223	323.87		3.88	-1.11E+00	1.43E+00	1.43E+00
+	RA-224	240.98		3.95	9.92E+00	3.00E+00	3.00E+00
+	RA-225	40.00		31.00	1.21E-01	1.76E+00	1.76E+00
+	RA-226	186.21	*	3.28	3.30E+00	2.94E+00	2.94E+00
+	TH-227	50.10		8.40	-5.93E-01	7.14E-01	7.60E-01
		236.00		11.50	-4.97E+00		7.14E-01
		256.20		6.30	-3.87E-01		8.29E-01
+	AC-228	338.32	*	11.40	9.71E-01	4.23E-01	8.67E-01
		911.07	*	27.70	1.10E+00		4.23E-01

Analysis Report for 1508002-10

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	1.33E+00	4.23E-01	1.23E+00
+	TH-230	48.44		16.90	-2.81E-01	4.48E-01	4.48E-01
		62.85		4.60	1.49E+00		1.28E+00
		67.67		0.37	-5.60E+00		1.34E+01
+	PA-231	283.67		1.60	7.06E-01	2.53E+00	3.39E+00
		302.67		2.30	-1.53E+00		2.53E+00
+	TH-231	25.64		14.70	-3.73E+00	7.48E-01	1.43E+01
		84.21		6.40	5.44E-01		7.48E-01
+	PA-233	311.98		38.60	1.09E-01	2.92E-01	2.92E-01
+	PA-234	131.20		20.40	2.23E-01	2.58E-01	2.58E-01
		733.99		8.80	-9.20E-02		8.09E-01
		946.00		12.00	-1.18E-01		5.85E-01
+	PA-234M	1001.03		0.92	2.10E+00	8.48E+00	8.48E+00
+	TH-234	63.29		3.80	1.79E+00	1.54E+00	1.54E+00
+	U-235	143.76		10.50	1.73E-01	4.95E-01	4.95E-01
		163.35		4.70	2.85E-02		1.12E+00
		205.31		4.70	3.11E-01		1.16E+00
+	NP-237	86.50	*	12.60	2.24E-01	4.32E-01	4.32E-01
+	NP-239	106.10	*	22.70	2.92E+02	4.87E+02	4.87E+02
		228.18		10.70	-2.71E+02		1.18E+03
		277.60	*	14.10	8.04E+02		1.21E+03
+	AM-241	59.54		35.90	2.56E-02	1.51E-01	1.51E-01
+	AM-243	74.67		66.00	-2.23E-01	1.00E-01	1.00E-01
+	CM-243	209.75	*	3.29	1.28E+00	5.12E-01	2.50E+00
		228.14		10.60	-1.18E-01		5.12E-01
		277.60	*	14.00	3.49E-01		5.23E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	7.29E-01	7.29E-01	-2.34E-01	3.40E-01
	NA-22	1274.54		99.94	8.23E-02	8.23E-02	-4.28E-02	3.72E-02
	NA-24	1368.53		99.99	2.90E+11	1.62E+11	6.29E+10	1.25E+11
		2754.09		99.86	1.62E+11		3.50E+10	5.75E+10
	AL-26	1808.65		99.76	5.76E-02	5.76E-02	7.26E-03	2.39E-02
+	K-40	1460.81	*	10.67	7.60E-01	7.60E-01	1.95E+01	3.39E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.25E-02	5.25E-02	-2.19E-02	2.54E-02
		78.34		96.00	7.58E-02		2.59E-01	3.71E-02
	SC-46	889.25		99.98	9.74E-02	9.74E-02	2.29E-02	4.50E-02
		1120.51		99.99	1.86E-01		3.16E-01	8.87E-02
	V-48	983.52		99.98	2.36E-01	2.36E-01	1.31E-02	1.08E-01
		1312.10		97.50	2.78E-01		8.46E-02	1.26E-01
	CR-51	320.08		9.83	9.87E-01	9.87E-01	-3.66E-01	4.66E-01
	MN-54	834.83		99.97	8.24E-02	8.24E-02	1.22E-02	3.82E-02
	CO-56	846.75		99.96	8.68E-02	8.68E-02	-1.80E-02	3.98E-02
		1037.75		14.03	7.69E-01		1.42E-01	3.54E-01
		1238.25		67.00	2.34E-01		9.66E-02	1.10E-01
		1771.40		15.51	5.49E-01		-5.47E-02	2.35E-01
		2598.48		16.90	2.57E-01		5.54E-02	9.11E-02
	CO-57	122.06		85.51	6.14E-02	6.14E-02	2.75E-02	2.98E-02
		136.48		10.60	5.02E-01		-4.43E-02	2.43E-01
	CO-58	810.76		99.40	9.46E-02	9.46E-02	2.39E-02	4.37E-02
	FE-59	1099.22		56.50	2.11E-01	2.11E-01	1.80E-02	9.63E-02
		1291.56		43.20	3.44E-01		2.61E-02	1.58E-01
	CO-60	1173.22		100.00	9.62E-02	8.02E-02	2.39E-02	4.44E-02
		1332.49		100.00	8.02E-02		2.19E-02	3.60E-02
	ZN-65	1115.52		50.75	1.77E-01	1.77E-01	8.34E-03	8.08E-02
+	GA-67	93.31	*	35.70	5.56E+01	5.56E+01	7.97E+01	2.73E+01
		208.95		2.24	7.11E+02		1.98E+02	3.43E+02
		300.22	*	16.00	1.02E+02		1.18E+02	4.89E+01
	SE-75	121.11		16.70	3.39E-01	9.72E-02	9.97E-02	1.64E-01
		136.00		59.20	9.72E-02		6.95E-03	4.70E-02
		264.65		59.80	1.06E-01		3.03E-02	5.08E-02
		279.53		25.20	2.68E-01		2.29E-02	1.28E-01
		400.65		11.40	6.34E-01		2.80E-01	3.01E-01
	RB-82	776.52		13.00	1.20E+00	1.20E+00	-5.31E-02	5.58E-01
	RB-83	520.41		46.00	1.57E-01	1.57E-01	6.58E-02	7.30E-02
		529.64		30.30	2.23E-01		1.59E-02	1.03E-01
		552.65		16.40	4.18E-01		-1.88E-01	1.94E-01
	KR-85	513.99		0.43	1.54E+01	1.54E+01	-1.50E+01	7.24E+00
	SR-85	513.99		99.27	8.87E-02	8.87E-02	-8.63E-02	4.18E-02
	Y-88	898.02		93.40	9.17E-02	7.26E-02	1.49E-02	4.21E-02
		1836.01		99.38	7.26E-02		6.93E-03	3.04E-02
	NB-93M	16.57		9.43	5.98E+03	5.98E+03	-1.38E+04	2.91E+03
	NB-94	702.63		100.00	7.41E-02	7.34E-02	8.23E-04	3.46E-02
		871.10		100.00	7.34E-02		-1.88E-02	3.38E-02
	NB-95	765.79		99.81	1.49E-01	1.49E-01	1.17E-01	6.99E-02
	NB-95M	235.69		25.00	5.16E+01	5.16E+01	-3.59E+02	2.51E+01
	ZR-95	724.18		43.70	2.56E-01	1.73E-01	6.03E-02	1.21E-01
		756.72		55.30	1.73E-01		-5.74E-02	8.01E-02

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Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
MO-99	181.06		6.20	6.48E+02	4.30E+02	1.54E+02	3.12E+02
	739.58		12.80	4.30E+02		-1.35E+02	2.00E+02
	778.00		4.50	1.25E+03		1.93E+02	5.82E+02
RU-103	497.08		89.00	1.03E-01	1.03E-01	-3.34E-02	4.81E-02
RU-106	621.84		9.80	7.33E-01	7.33E-01	-1.08E-01	3.43E-01
AG-108M	433.93		89.90	5.69E-02	5.69E-02	8.20E-03	2.66E-02
	614.37		90.40	8.48E-02		2.16E-02	4.00E-02
	722.95		90.50	8.55E-02		3.16E-02	4.00E-02
CD-109	88.03	*	3.72	1.52E+00	1.52E+00	7.87E-01	7.42E-01
AG-110M	657.75		93.14	9.32E-02	9.32E-02	6.54E-03	4.39E-02
	677.61		10.53	6.73E-01		-2.14E-01	3.12E-01
	706.67		16.46	4.80E-01		2.48E-02	2.24E-01
	763.93		21.98	3.63E-01		-3.62E-01	1.69E-01
	884.67		71.63	1.17E-01		8.43E-03	5.41E-02
	1384.27		23.94	2.88E-01		-2.22E-02	1.25E-01
CD-113M	263.70		0.02	2.39E+02	2.39E+02	-1.11E+01	1.14E+02
SN-113	255.12		1.93	3.23E+00	1.01E-01	1.07E+00	1.54E+00
	391.69		64.90	1.01E-01		-8.36E-03	4.77E-02
TE123M	159.00		84.10	7.39E-02	7.39E-02	8.63E-04	3.57E-02
SB-124	602.71		97.87	9.12E-02	9.12E-02	-2.17E-01	4.26E-02
	645.85		7.26	1.16E+00		2.75E-01	5.39E-01
	722.78		11.10	9.43E-01		3.49E-01	4.41E-01
	1691.02		49.00	1.46E-01		-1.14E-01	5.97E-02
I-125	35.49		6.49	5.53E+00	5.53E+00	-1.31E-01	2.68E+00
SB-125	176.33		6.89	7.75E-01	1.89E-01	-2.63E-01	3.74E-01
	427.89		29.33	1.89E-01		3.55E-02	8.87E-02
	463.38		10.35	6.59E-01		4.91E-01	3.12E-01
	600.56		17.80	3.96E-01		1.52E-01	1.86E-01
	635.90		11.32	6.17E-01		1.80E-01	2.88E-01
SB-126	414.70		83.30	2.90E-01	2.90E-01	-5.82E-02	1.37E-01
	666.33		99.60	3.16E-01		-1.60E-01	1.48E-01
	695.00		99.60	3.28E-01		2.66E-02	1.54E-01
	720.50		53.80	6.13E-01		1.55E-01	2.86E-01
SN-126	87.57	*	37.00	1.47E-01	1.47E-01	7.61E-02	7.17E-02
SB-127	473.00		25.00	2.78E+01	2.22E+01	1.81E+01	1.31E+01
	685.20		35.70	2.22E+01		-5.31E+00	1.03E+01
	783.80		14.70	6.17E+01		3.27E+01	2.88E+01
I-129	29.78		57.00	1.23E+00	1.23E+00	-1.40E-01	5.95E-01
	33.60		13.20	2.61E+00		-9.64E-01	1.26E+00
	39.58		7.52	2.20E+00		1.51E-01	1.07E+00
I-131	284.30		6.05	8.70E+00	6.12E-01	1.81E+00	4.15E+00
	364.48		81.20	6.12E-01		-3.41E-01	2.88E-01
	636.97		7.26	9.29E+00		4.81E+00	4.34E+00
	722.89		1.80	4.16E+01		1.54E+01	1.95E+01
TE-132	49.72		13.10	1.35E+02	1.67E+01	-1.05E+02	6.46E+01
	228.16		88.00	1.67E+01		-3.84E+00	8.00E+00
BA-133	81.00		33.00	1.34E-01	8.46E-02	6.20E-02	6.50E-02
	302.84		17.80	3.28E-01		-1.98E-01	1.56E-01
	356.01		60.00	8.46E-02		2.37E-03	3.98E-02
I-133	529.87		86.30	8.99E+07	8.99E+07	-1.37E+07	4.17E+07
XE-133	81.00		38.00	3.78E+00	3.78E+00	1.74E+00	1.83E+00
CS-134	563.23		8.38	7.50E-01	8.58E-02	1.50E-01	3.50E-01
	569.32		15.43	4.33E-01		1.15E-01	2.03E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-134	604.70		97.60	8.58E-02	8.58E-02	-6.84E-01	4.06E-02
		795.84		85.40	9.88E-02		4.67E-02	4.62E-02
		801.93		8.73	9.04E-01		-2.83E-01	4.20E-01
	CS-135	268.24		16.00	3.79E-01	3.79E-01	4.60E-03	1.82E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.83E+00	2.51E-01	-3.01E-01	1.37E+00
		163.89		4.61	4.58E+00		2.52E+00	2.21E+00
		176.55		13.56	1.52E+00		-7.80E-02	7.35E-01
		273.65		12.66	1.79E+00		-1.54E+00	8.57E-01
		340.57		48.50	5.40E-01		-4.68E-01	2.58E-01
		818.50		99.70	2.51E-01		2.73E-03	1.14E-01
		1048.07		79.60	4.34E-01		1.40E-02	2.00E-01
		1235.34		19.70	2.35E+00		-3.85E-02	1.10E+00
+	CS-137	661.65	*	85.12	1.18E-01	1.18E-01	8.88E-02	5.63E-02
	LA-138	788.74		34.00	2.27E-01	1.10E-01	7.64E-02	1.06E-01
		1435.80		66.00	1.10E-01		-4.80E-03	4.87E-02
	CE-139	165.85		80.35	7.35E-02	7.35E-02	-2.07E-02	3.55E-02
	BA-140	162.64		6.70	3.27E+00	9.59E-01	8.31E-02	1.58E+00
		304.84		4.50	5.04E+00		4.55E-01	2.40E+00
		423.70		3.20	7.70E+00		3.50E+00	3.63E+00
		437.55		2.00	1.10E+01		2.72E+00	5.12E+00
		537.32		25.00	9.59E-01		-1.23E-01	4.46E-01
	LA-140	328.77		20.50	1.37E+00	3.98E-01	1.12E+00	6.56E-01
		487.03		45.50	5.12E-01		-1.12E-02	2.39E-01
		815.85		23.50	1.03E+00		-2.16E-01	4.67E-01
		1596.49		95.49	3.98E-01		2.25E-01	1.79E-01
	CE-141	145.44		48.40	1.92E-01	1.92E-01	1.23E-01	9.31E-02
	CE-143	57.36		11.80	2.49E+05	1.10E+05	-7.72E+04	1.20E+05
		293.26		42.00	1.10E+05		-4.42E+04	5.34E+04
		664.55		5.20	9.99E+05		1.19E+06	4.73E+05
	CE-144	133.54		10.80	4.93E-01	4.93E-01	6.29E-03	2.39E-01
	PM-144	476.78		42.00	1.35E-01	7.64E-02	-4.33E-02	6.29E-02
		618.01		98.60	7.64E-02		1.02E-02	3.58E-02
		696.49		99.49	7.99E-02		3.93E-02	3.74E-02
	PM-145	36.85		21.70	1.04E+00	5.32E-01	3.00E-01	5.02E-01
		37.36		39.70	5.32E-01		1.54E-01	2.58E-01
		42.30		15.10	8.62E-01		-1.33E-01	4.17E-01
		72.40		2.31	2.06E+00		-2.14E+00	9.95E-01
	PM-146	453.90		39.94	1.43E-01	1.43E-01	-3.38E-02	6.73E-02
		735.90		14.01	5.30E-01		-1.32E-01	2.47E-01
		747.13		13.10	5.95E-01		1.33E-01	2.78E-01
	ND-147	91.11		28.90	1.18E+00	1.18E+00	-3.93E-01	5.76E-01
		531.02		13.10	2.03E+00		-1.73E+00	9.37E-01
	PM-149	285.90		3.10	6.86E+03	6.86E+03	-2.60E+02	3.27E+03
	EU-152	121.78		20.50	2.40E-01	2.40E-01	1.08E-01	1.16E-01
		244.69		5.40	1.09E+00		-2.02E+00	5.22E-01
		344.27		19.13	2.95E-01		4.52E-02	1.40E-01
		778.89		9.20	7.88E-01		-2.41E-01	3.65E-01
		964.01		10.40	1.04E+00		-2.40E+00	4.87E-01
		1085.78		7.22	1.09E+00		-6.32E-01	4.97E-01
		1112.02		9.60	7.93E-01		-1.86E-01	3.60E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	5.05E-01	2.40E-01	-9.16E-02	2.24E-01
	GD-153	97.43		31.30	1.61E-01	1.61E-01	9.57E-02	7.80E-02
		103.18		22.20	2.30E-01		2.45E-03	1.11E-01
	EU-154	123.07		40.50	1.17E-01	1.17E-01	-1.32E-01	5.65E-02
		723.30		19.70	3.95E-01		1.46E-01	1.85E-01
		873.19		11.50	6.87E-01		2.04E-01	3.18E-01
		996.32		10.30	7.67E-01		-3.45E-02	3.52E-01
		1004.76		17.90	4.30E-01		6.29E-02	1.96E-01
		1274.45		35.50	2.29E-01		-1.19E-01	1.03E-01
+	EU-155	86.50	*	30.90	1.78E-01	1.78E-01	9.21E-02	8.67E-02
		105.30	*	20.70	2.32E-01		1.39E-01	1.12E-01
	EU-156	811.77		10.40	2.20E+00	2.20E+00	5.62E-01	1.01E+00
		1153.47		7.20	4.59E+00		2.14E-01	2.13E+00
		1230.71		8.90	3.59E+00		-1.19E+00	1.65E+00
	HO-166M	184.41		72.60	8.92E-02	8.92E-02	2.65E-02	4.33E-02
		280.45		29.60	1.96E-01		1.68E-02	9.39E-02
		410.94		11.10	5.97E-01		3.55E-01	2.84E-01
		711.69		54.10	1.40E-01		2.36E-02	6.56E-02
	TM-171	66.72		0.14	3.79E+01	3.79E+01	1.64E+01	1.84E+01
	HF-172	81.75		4.52	9.80E-01	4.39E-01	-7.91E-01	4.73E-01
		125.81		11.30	4.39E-01		1.33E-01	2.12E-01
	LU-172	181.53		20.60	3.94E+00	2.32E+00	-2.63E+00	1.90E+00
		810.06		16.63	6.66E+00		1.68E+00	3.08E+00
		912.12		15.25	1.49E+01		3.12E+01	7.15E+00
		1093.66		62.50	2.32E+00		8.29E-01	1.08E+00
	LU-173	100.72		5.24	9.41E-01	3.13E-01	5.06E-01	4.56E-01
		272.11		21.20	3.13E-01		5.57E-02	1.50E-01
	HF-175	343.40		84.00	8.95E-02	8.95E-02	-2.19E-03	4.25E-02
	LU-176	88.34		13.30	4.87E-01	5.54E-02	2.40E-01	2.38E-01
		201.83		86.00	6.21E-02		-1.20E-02	2.99E-02
		306.78		94.00	5.54E-02		-6.35E-03	2.63E-02
	TA-182	67.75		41.20	1.41E-01	1.41E-01	-5.89E-02	6.84E-02
		1121.30		34.90	5.11E-01		9.18E-01	2.43E-01
		1189.05		16.23	7.29E-01		2.49E-01	3.37E-01
		1221.41		26.98	4.23E-01		-7.64E-02	1.95E-01
		1231.02		11.44	1.05E+00		1.32E-01	4.87E-01
	IR-192	308.46		29.68	2.26E-01	1.33E-01	-2.69E-02	1.07E-01
		468.07		48.10	1.33E-01		-5.07E-02	6.17E-02
	HG-203	279.19		77.30	1.14E-01	1.14E-01	3.60E-02	5.45E-02
	BI-207	569.67		97.72	6.69E-02	6.69E-02	1.77E-02	3.13E-02
		1063.62		74.90	1.06E-01		-1.50E-02	4.83E-02
+	TL-208	583.14	*	30.22	3.67E-01	1.64E-01	1.24E+00	1.77E-01
		860.37	*	4.48	2.01E+00		1.52E+00	9.42E-01
		2614.66	*	35.85	1.64E-01		8.45E-01	6.78E-02
	BI-210M	262.00		45.00	1.28E-01	1.28E-01	4.46E-02	6.13E-02
		300.00		23.00	2.68E-01		4.98E-02	1.28E-01
+	PB-210	46.50	*	4.25	3.63E+00	3.63E+00	2.65E+00	1.78E+00
	PB-211	404.84		2.90	1.96E+00	1.96E+00	-3.38E-01	9.26E-01
		831.96		2.90	2.65E+00		-2.24E-01	1.23E+00
	BI-212	727.17		11.80	7.47E-01	7.47E-01	3.71E-01	3.52E-01
		1620.62		2.75	2.43E+00		-4.46E-01	1.04E+00
+	PB-212	238.63	*	44.60	2.64E-01	2.64E-01	1.25E+00	1.29E-01
		300.09	*	3.41	1.78E+00		2.05E+00	8.49E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	2.23E-01	2.23E-01	1.20E+00	1.07E-01
		1120.29	*	15.10	8.18E-01		1.87E+00	3.85E-01
		1764.49	*	15.80	5.67E-01		1.60E+00	2.53E-01
		2204.22	*	4.98	8.79E-01		1.68E+00	3.36E-01
+	PB-214	295.21	*	19.19	3.73E-01	2.21E-01	1.33E+00	1.80E-01
		351.92	*	37.19	2.21E-01		1.23E+00	1.06E-01
	RN-219	401.80		6.50	9.36E-01	9.36E-01	5.09E-01	4.43E-01
	RA-223	323.87		3.88	1.43E+00	1.43E+00	-1.11E+00	6.78E-01
	RA-224	240.98		3.95	3.00E+00	3.00E+00	9.92E+00	1.47E+00
	RA-225	40.00		31.00	1.76E+00	1.76E+00	1.21E-01	8.52E-01
+	RA-226	186.21	*	3.28	2.94E+00	2.94E+00	3.30E+00	1.44E+00
	TH-227	50.10		8.40	7.60E-01	7.14E-01	-5.93E-01	3.65E-01
		236.00		11.50	7.14E-01		-4.97E+00	3.47E-01
		256.20		6.30	8.29E-01		-3.87E-01	3.95E-01
+	AC-228	338.32	*	11.40	8.67E-01	4.23E-01	9.71E-01	4.21E-01
		911.07	*	27.70	4.23E-01		1.10E+00	2.00E-01
		969.11	*	16.60	1.23E+00		1.33E+00	5.94E-01
	TH-230	48.44		16.90	4.48E-01	4.48E-01	-2.81E-01	2.16E-01
		62.85		4.60	1.28E+00		1.49E+00	6.21E-01
		67.67		0.37	1.34E+01		-5.60E+00	6.50E+00
	PA-231	283.67		1.60	3.39E+00	2.53E+00	7.06E-01	1.62E+00
		302.67		2.30	2.53E+00		-1.53E+00	1.20E+00
	TH-231	25.64		14.70	1.43E+01	7.48E-01	-3.73E+00	6.92E+00
		84.21		6.40	7.48E-01		5.44E-01	3.63E-01
	PA-233	311.98		38.60	2.92E-01	2.92E-01	1.09E-01	1.39E-01
	PA-234	131.20		20.40	2.58E-01	2.58E-01	2.23E-01	1.25E-01
		733.99		8.80	8.09E-01		-9.20E-02	3.76E-01
		946.00		12.00	5.85E-01		-1.18E-01	2.67E-01
	PA-234M	1001.03		0.92	8.48E+00	8.48E+00	2.10E+00	3.89E+00
	TH-234	63.29		3.80	1.54E+00	1.54E+00	1.79E+00	7.46E-01
	U-235	143.76		10.50	4.95E-01	4.95E-01	1.73E-01	2.40E-01
		163.35		4.70	1.12E+00		2.85E-02	5.42E-01
		205.31		4.70	1.16E+00		3.11E-01	5.56E-01
	NP-237	86.50	*	12.60	4.32E-01	4.32E-01	2.24E-01	2.11E-01
	NP-239	106.10	*	22.70	4.87E+02	4.87E+02	2.92E+02	2.36E+02
		228.18		10.70	1.18E+03		-2.71E+02	5.65E+02
		277.60	*	14.10	1.21E+03		8.04E+02	5.82E+02
	AM-241	59.54		35.90	1.51E-01	1.51E-01	2.56E-02	7.29E-02
	AM-243	74.67		66.00	1.00E-01	1.00E-01	-2.23E-01	4.89E-02
+	CM-243	209.75	*	3.29	2.50E+00	5.12E-01	1.28E+00	1.22E+00
		228.14		10.60	5.12E-01		-1.18E-01	2.45E-01
		277.60	*	14.00	5.23E-01		3.49E-01	2.53E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-20 089-090

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	1	117
9:	436	1039	988	454	491	1870	418	159
17:	132	113	121	89	113	92	107	86
25:	91	79	88	96	97	111	81	101
33:	100	103	101	117	99	108	99	120
41:	105	105	115	109	106	113	187	100
49:	72	70	59	78	81	76	66	62
57:	69	78	83	97	93	91	134	147
65:	85	118	99	106	100	111	107	96
73:	103	141	318	170	403	312	84	99
81:	97	98	86	133	135	95	174	165
89:	90	143	112	121	199	121	88	57
97:	66	58	87	72	58	71	61	71
105:	81	80	62	51	70	60	56	69
113:	61	68	70	58	60	56	59	88
121:	61	55	64	63	58	73	63	54
129:	91	68	67	74	58	57	65	61
137:	62	57	60	66	59	47	75	70
145:	65	59	56	58	62	56	60	51
153:	54	74	64	67	66	59	60	53
161:	58	54	57	47	63	57	39	57
169:	57	51	49	43	63	59	62	51
177:	40	38	51	49	42	50	52	55
185:	66	142	94	51	53	42	46	52
193:	64	49	42	42	41	51	48	51
201:	45	31	54	36	45	42	42	35
209:	58	73	46	50	39	40	37	44
217:	45	43	39	49	42	38	42	52
225:	43	35	44	27	36	46	39	44
233:	37	41	39	53	51	241	493	100
241:	82	133	64	39	30	29	38	31
249:	32	31	27	27	34	25	19	40
257:	37	27	36	32	40	29	35	40
265:	27	26	27	28	37	72	49	32
273:	27	28	40	33	38	55	23	30
281:	26	29	23	30	30	27	25	31
289:	33	26	33	23	23	52	162	123
297:	36	16	22	57	47	25	27	24
305:	23	26	26	23	16	24	25	25
313:	36	26	28	28	21	19	22	21
321:	19	18	25	28	26	23	42	42
329:	25	32	36	26	33	23	28	28
337:	31	86	59	24	28	27	20	23
345:	23	20	15	30	31	17	91	291
353:	91	18	19	13	16	20	14	15
361:	33	10	15	18	23	20	13	18

369:	16	18	19	24	20	14	24	20

Sample Title: FEEBRIS1D-20 089-090

Channel								
377:	21	16	17	21	20	23	15	16
385:	14	16	24	21	23	23	14	17
393:	19	20	17	18	12	19	22	20
401:	24	23	23	17	12	19	21	15
409:	24	33	28	20	19	18	19	14
417:	14	16	15	11	21	19	13	21
425:	17	23	13	13	18	10	13	9
433:	10	16	12	19	17	8	13	10
441:	12	13	13	7	14	13	16	16
449:	18	30	15	19	15	17	11	15
457:	12	17	14	17	13	26	35	20
465:	12	10	15	12	10	9	19	15
473:	19	9	21	14	9	10	10	15
481:	17	11	8	12	15	20	10	11
489:	11	13	18	16	21	17	20	12
497:	9	14	14	15	15	10	15	18
505:	14	10	16	20	28	54	93	36
513:	23	16	9	5	14	12	14	12
521:	16	12	13	7	11	11	10	20
529:	12	8	6	11	10	17	14	12
537:	8	13	14	5	21	15	4	11
545:	6	16	14	16	11	16	3	15
553:	12	8	12	17	5	8	7	10
561:	13	9	14	16	13	13	14	20
569:	17	13	9	13	11	10	6	11
577:	12	10	10	13	20	56	143	75
585:	15	12	11	15	12	8	5	15
593:	14	14	8	14	7	13	11	13
601:	10	12	10	6	7	10	15	47
609:	190	132	18	13	10	10	14	12
617:	14	13	5	10	10	14	7	11
625:	13	8	9	8	8	8	5	11
633:	8	10	10	8	14	9	9	10
641:	6	4	10	8	7	5	8	9
649:	7	6	9	13	11	12	15	8
657:	5	14	11	7	31	21	18	7
665:	12	7	14	8	4	5	7	9
673:	11	9	8	8	8	9	7	7
681:	4	15	5	9	9	5	10	8
689:	13	13	8	11	13	5	8	13
697:	7	14	12	6	5	12	17	10
705:	6	7	11	6	9	11	8	11
713:	11	14	12	6	9	7	6	10
721:	10	12	14	8	7	10	24	18
729:	11	15	7	7	7	13	9	5
737:	10	10	8	10	11	5	8	11
745:	9	12	8	10	7	10	10	9
753:	3	10	9	11	10	8	5	15
761:	5	5	8	11	6	11	13	26
769:	10	8	10	17	4	10	8	12
777:	8	9	10	3	7	5	10	9
785:	9	15	10	6	6	9	6	5
793:	9	18	8	12	5	11	6	4

801:	12	10	12	5	10	14	10	9

Sample Title: FEEBRIS1D-20 089-090

Channel								
809:	4	6	4	12	6	4	3	4
817:	7	4	3	5	10	10	11	7
825:	5	4	6	9	6	5	10	8
833:	10	7	9	5	13	4	4	10
841:	13	5	5	6	8	6	7	4
849:	6	6	5	5	10	7	3	3
857:	7	4	5	17	19	9	5	6
865:	5	5	8	8	3	6	6	7
873:	6	10	7	11	8	5	3	7
881:	15	7	4	8	3	6	8	8
889:	8	9	6	6	5	8	1	5
897:	6	9	10	5	6	4	10	11
905:	8	4	4	6	7	31	72	56
913:	11	7	7	8	9	9	6	2
921:	7	4	5	5	3	2	8	5
929:	6	6	7	6	6	10	14	5
937:	5	2	6	5	4	7	4	6
945:	2	3	10	5	6	6	7	3
953:	3	3	6	10	3	10	7	10
961:	5	17	9	23	14	9	10	36
969:	49	19	5	12	8	3	4	7
977:	6	7	2	4	6	5	5	8
985:	5	6	6	6	12	8	5	8
993:	8	5	6	5	5	6	7	4
1001:	8	7	2	7	2	7	6	5
1009:	4	2	7	3	7	6	3	2
1017:	8	3	10	6	6	5	7	5
1025:	8	5	7	5	8	7	9	5
1033:	6	7	8	6	11	3	7	5
1041:	9	3	2	7	5	6	6	5
1049:	6	11	8	8	9	5	8	5
1057:	8	7	4	6	5	3	7	7
1065:	4	6	3	10	8	3	10	3
1073:	4	3	3	5	4	7	7	6
1081:	7	5	6	4	8	5	2	6
1089:	11	6	11	10	7	6	6	8
1097:	7	1	6	5	4	5	5	3
1105:	5	6	8	8	5	4	5	5
1113:	6	4	3	6	5	10	30	41
1121:	38	6	6	9	4	6	5	7
1129:	6	8	3	4	12	1	3	6
1137:	8	5	5	0	2	5	4	5
1145:	5	4	10	9	9	8	6	6
1153:	4	8	9	13	4	8	3	3
1161:	11	9	8	6	7	4	5	5
1169:	4	8	5	3	10	9	7	6
1177:	5	8	8	5	7	7	8	4
1185:	7	10	8	6	4	8	8	9
1193:	5	7	7	6	7	10	7	9
1201:	6	5	8	10	7	7	9	2
1209:	6	7	5	6	7	7	4	8
1217:	9	10	8	6	3	4	8	8
1225:	7	7	4	1	10	11	6	3

1233:	10	11	7	9	12	15	15	14

Sample Title: FEEBRIS1D-20 089-090

Channel								
1241:	6	9	5	6	5	10	6	5
1249:	8	6	2	1	8	8	5	3
1257:	2	5	7	5	8	11	3	3
1265:	5	5	6	6	8	5	6	3
1273:	4	3	4	7	2	8	4	7
1281:	7	4	5	4	7	9	5	8
1289:	2	7	6	5	8	8	7	3
1297:	5	5	6	3	7	5	4	6
1305:	4	4	2	4	7	5	3	4
1313:	6	3	4	1	6	4	3	3
1321:	1	2	4	8	1	4	3	4
1329:	3	3	5	3	3	5	4	3
1337:	1	0	2	4	5	1	2	3
1345:	4	5	3	4	2	4	3	8
1353:	2	1	4	1	2	4	3	2
1361:	2	1	3	1	2	1	4	1
1369:	1	4	0	2	1	7	4	7
1377:	9	5	4	2	2	2	1	2
1385:	5	2	1	6	1	2	1	2
1393:	3	4	2	5	3	1	2	2
1401:	4	9	2	1	1	2	3	8
1409:	4	2	3	0	2	2	2	1
1417:	3	2	2	1	2	5	1	1
1425:	2	1	1	2	1	1	2	0
1433:	2	1	2	3	7	4	3	2
1441:	1	1	3	2	4	2	2	1
1449:	2	3	4	9	1	6	1	3
1457:	3	6	86	221	227	104	17	2
1465:	0	0	1	1	3	4	2	1
1473:	4	1	3	4	0	2	3	2
1481:	0	1	1	1	0	3	1	0
1489:	4	1	0	0	4	0	3	3
1497:	2	3	1	3	2	1	2	0
1505:	1	1	0	2	3	3	6	1
1513:	2	4	1	2	1	3	1	3
1521:	0	2	2	3	2	2	1	4
1529:	2	1	1	3	1	2	2	0
1537:	1	0	1	4	1	2	2	0
1545:	2	3	2	1	2	1	0	0
1553:	1	1	2	3	2	2	1	1
1561:	0	3	0	1	1	2	1	2
1569:	2	1	2	2	1	0	2	5
1577:	2	2	1	2	2	4	0	1
1585:	2	4	6	8	0	2	2	6
1593:	4	2	5	3	3	2	2	0
1601:	1	1	1	0	3	3	2	2
1609:	2	4	0	0	1	2	1	2
1617:	2	1	3	3	0	2	0	0
1625:	2	2	1	2	3	1	6	2
1633:	4	0	1	2	1	2	2	1
1641:	1	1	3	2	4	3	2	2
1649:	0	0	2	0	0	4	1	1
1657:	1	0	1	2	1	4	1	1

1665:	3	1	0	0	0	0	5	0

Sample Title: FEEBRIS1D-20 089-090

Channel								
1673:	0	2	2	0	0	2	1	0
1681:	2	1	1	4	2	1	0	1
1689:	1	0	0	0	3	1	0	2
1697:	2	0	0	1	1	2	3	1
1705:	2	2	1	0	0	0	0	0
1713:	0	2	3	2	2	1	1	0
1721:	1	0	1	3	0	1	2	2
1729:	4	0	2	0	1	0	1	0
1737:	0	0	2	1	1	1	0	2
1745:	1	0	1	1	3	0	1	2
1753:	2	0	0	1	2	0	1	2
1761:	4	3	16	27	20	8	4	0
1769:	2	0	1	1	3	0	1	1
1777:	1	1	2	2	2	3	1	0
1785:	1	1	0	1	0	1	0	1
1793:	1	0	0	1	1	0	0	1
1801:	0	2	0	2	0	0	0	0
1809:	0	0	2	4	0	0	1	1
1817:	2	1	1	0	2	1	2	1
1825:	0	1	0	1	0	2	0	1
1833:	2	0	2	1	1	2	0	0
1841:	2	0	1	1	2	2	1	3
1849:	0	0	2	0	2	0	1	0
1857:	1	0	2	0	0	1	1	2
1865:	1	1	1	0	1	0	1	0
1873:	0	1	0	3	1	1	0	1
1881:	0	0	2	0	1	2	0	2
1889:	0	1	1	3	1	4	0	1
1897:	1	0	0	0	1	0	2	1
1905:	3	1	2	1	2	1	2	0
1913:	1	2	1	0	0	1	0	1
1921:	2	0	2	2	1	0	1	1
1929:	1	0	0	1	0	2	1	1
1937:	2	1	0	1	1	1	1	1
1945:	1	1	2	0	3	0	2	0
1953:	1	1	1	1	1	1	3	0
1961:	1	3	0	1	4	1	1	1
1969:	1	0	0	2	2	2	1	2
1977:	1	2	0	1	2	1	0	1
1985:	1	1	0	0	1	1	0	0
1993:	2	0	1	2	2	0	1	3
2001:	1	1	0	1	0	1	0	0
2009:	0	2	1	1	1	2	0	0
2017:	0	0	0	1	0	0	0	0
2025:	0	1	1	0	0	2	1	0
2033:	0	1	1	1	0	0	0	1
2041:	0	1	1	1	4	0	0	3
2049:	0	1	2	0	0	3	1	1
2057:	0	0	1	2	0	2	2	1
2065:	1	1	0	1	1	0	0	0
2073:	0	0	1	0	1	1	0	1
2081:	1	0	1	0	1	2	2	0
2089:	1	2	1	1	2	1	1	3

2097:	0	2	0	0	4	3	5	4

Sample Title: FEEBRIS1D-20 089-090

Channel								
2105:	1	2	1	1	0	1	1	0
2113:	0	0	0	1	3	3	1	5
2121:	0	1	0	0	1	0	2	1
2129:	0	3	1	0	0	0	2	1
2137:	1	0	0	1	0	1	1	0
2145:	1	2	1	1	0	0	0	1
2153:	1	1	1	0	1	3	0	0
2161:	1	0	0	1	0	1	1	0
2169:	1	0	2	0	2	1	2	1
2177:	0	0	0	0	2	0	1	1
2185:	1	2	0	2	1	2	0	1
2193:	1	2	1	1	2	1	0	1
2201:	0	1	9	3	5	3	2	0
2209:	0	2	0	0	1	0	1	1
2217:	1	0	1	1	1	2	1	0
2225:	1	1	0	0	0	2	0	1
2233:	1	1	2	0	0	1	1	0
2241:	1	0	1	1	2	1	0	0
2249:	0	1	1	0	2	1	1	1
2257:	1	1	0	0	1	0	2	1
2265:	0	1	1	1	0	2	0	0
2273:	0	0	0	1	0	3	1	0
2281:	0	2	2	0	1	1	0	1
2289:	0	3	2	0	2	1	1	0
2297:	2	4	0	0	1	2	1	1
2305:	0	0	0	0	1	0	2	1
2313:	2	2	1	3	1	0	1	0
2321:	1	1	1	0	1	2	3	1
2329:	1	5	1	2	2	1	0	0
2337:	2	0	0	0	1	1	1	1
2345:	1	3	1	0	1	0	0	1
2353:	0	0	0	2	0	1	0	1
2361:	0	0	0	0	1	1	1	0
2369:	1	1	0	3	0	1	1	2
2377:	0	0	0	2	1	1	1	1
2385:	1	0	1	1	0	1	0	3
2393:	0	2	1	0	0	1	1	0
2401:	2	0	1	0	0	1	0	0
2409:	0	2	1	2	1	1	0	0
2417:	0	0	0	0	2	1	0	1
2425:	0	1	1	0	0	2	1	1
2433:	0	0	1	0	1	0	0	1
2441:	0	1	0	0	0	3	3	0
2449:	3	0	1	1	0	0	0	0
2457:	1	0	1	1	2	1	0	1
2465:	0	0	1	3	1	1	0	1
2473:	0	0	2	2	1	1	1	1
2481:	0	1	1	1	0	1	1	1
2489:	0	1	0	1	1	0	1	0
2497:	1	0	0	0	1	0	1	0
2505:	0	0	0	0	0	0	1	0
2513:	1	1	0	0	1	0	0	2
2521:	0	0	1	0	0	0	0	0

2529:	0	0	0	0	1	0	0	1

Sample Title: FEEBRIS1D-20 089-090

Channel								
2537:	0	0	0	0	1	1	0	0
2545:	0	2	1	0	0	0	0	1
2553:	0	1	0	0	0	0	0	1
2561:	0	1	0	0	0	0	0	0
2569:	0	1	0	0	1	0	0	1
2577:	1	1	0	0	2	0	0	0
2585:	0	0	1	0	0	0	0	0
2593:	0	1	0	0	0	0	1	0
2601:	0	0	0	0	0	1	2	0
2609:	0	0	2	9	19	39	18	5
2617:	0	1	0	1	0	2	1	0
2625:	0	0	0	0	0	0	2	0
2633:	0	0	0	0	0	1	0	0
2641:	0	0	0	0	1	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	1	0	1	0	0	0	0
2665:	0	0	0	2	0	0	0	0
2673:	0	0	1	0	0	0	1	1
2681:	0	1	0	1	2	0	0	0
2689:	0	0	0	0	0	0	1	0
2697:	0	0	0	1	2	0	1	1
2705:	0	1	0	0	0	1	0	0
2713:	0	1	1	0	0	0	0	1
2721:	0	0	0	0	0	0	0	0
2729:	2	0	0	0	0	0	0	0
2737:	0	0	0	0	1	0	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	1	1	0	0	0	0	0
2761:	0	1	0	0	0	1	0	0
2769:	0	0	1	0	0	0	1	0
2777:	0	0	0	0	0	1	0	0
2785:	1	0	1	1	0	1	0	0
2793:	1	0	0	0	0	0	2	0
2801:	0	0	1	1	4	0	0	0
2809:	0	0	0	0	1	0	0	1
2817:	0	0	0	0	0	0	0	1
2825:	0	0	1	1	0	0	0	0
2833:	1	0	0	0	0	0	0	0
2841:	0	0	0	2	0	1	0	0
2849:	0	0	1	0	0	0	0	1
2857:	0	0	0	1	0	1	1	1
2865:	0	1	2	0	0	0	0	0
2873:	0	0	0	0	1	2	0	1
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	1	1	0	1
2897:	1	0	0	1	1	0	0	0
2905:	1	0	0	1	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	1	1	0	1
2929:	1	0	0	1	0	0	0	0
2937:	0	1	0	0	0	0	0	0
2945:	1	0	0	2	0	0	0	1
2953:	0	2	0	0	0	1	0	1

2961:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-20 089-090

Channel								
2969:	0	1	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	1	0	0	0	0
2993:	0	0	0	0	0	0	1	0
3001:	0	1	0	0	2	0	0	1
3009:	1	0	0	0	0	0	0	0
3017:	0	0	1	0	0	0	0	1
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	1	0
3041:	0	0	0	0	0	1	1	0
3049:	0	0	1	0	1	0	0	1
3057:	0	0	0	0	0	0	1	1
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	1	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	2	1	0	1	1
3097:	1	0	0	0	0	0	0	0
3105:	0	0	0	0	1	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	1	0	0	0	0
3129:	0	0	0	0	0	0	0	1
3137:	0	0	0	1	0	0	1	1
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	2	0	0	0
3161:	0	0	0	0	1	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	1	0	0
3185:	0	1	0	0	0	0	0	0
3193:	0	0	1	0	1	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	1	1	0	0
3225:	0	2	0	0	0	1	0	0
3233:	0	0	0	1	0	0	1	1
3241:	1	1	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	1
3257:	0	1	0	0	1	0	0	0
3265:	0	1	0	0	0	1	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	1	0	2	0
3289:	0	0	0	0	0	1	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	1
3313:	0	0	0	0	3	0	0	0
3321:	0	0	1	1	0	0	0	0
3329:	0	0	0	1	0	0	1	0
3337:	0	0	0	0	1	0	1	0
3345:	1	0	0	0	0	0	0	1
3353:	0	1	0	0	1	0	0	0
3361:	0	0	1	0	1	0	0	0
3369:	1	0	0	0	1	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	1	0	0	1	0

Sample Title: FEEBRIS1D-20 089-090

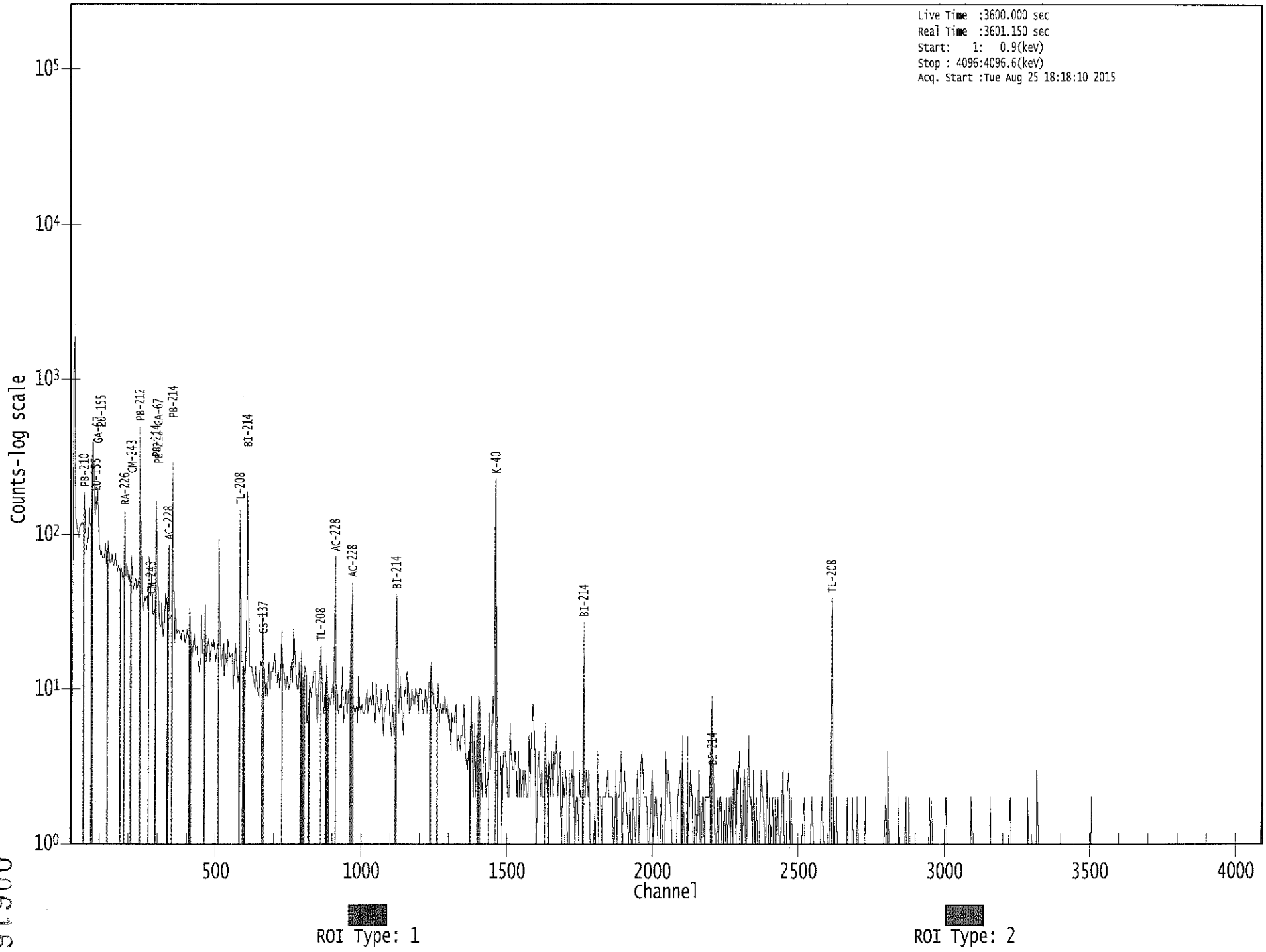
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	1	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	1	0	0	0
3449:	0	0	0	0	0	0	1	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	1	0	0	0	1	1
3473:	0	0	1	0	0	0	0	0
3481:	0	0	0	1	1	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	1	1	1
3505:	0	2	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	1	0	0	1
3553:	0	0	1	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	1	0	0	0	0	0	0	0
3585:	1	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	1	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	1	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	1	0	0	0	1	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	1	0	1	0	0	0	0
3673:	0	0	1	0	0	0	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	1	0	1	0	0	0	1
3705:	0	0	0	0	0	0	0	0
3713:	0	0	1	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	1	0	0	0	0
3737:	0	0	0	0	1	0	0	0
3745:	0	1	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	1	0	0	0	0
3785:	0	0	1	0	1	0	0	1
3793:	0	1	0	0	1	0	0	0
3801:	1	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	1	0	0	0

3825:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-20 089-090

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	1	0	0	0	0	1
3849:	0	1	0	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	1	0	1	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	1
3913:	0	0	0	1	0	0	0	1
3921:	0	0	0	0	0	0	0	1
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	1	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	1	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	1	0	0	0	0	0	0	0
4009:	0	0	0	1	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	1	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	0	0	0	0
4057:	0	0	0	0	0	0	1	1
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	1	0
4089:	0	2	0	0	0	0	0	0

0000026423.CNF



91900

Apex-Gamma

Analysis Report for 1508002-11
FEEBRIS1D-7 084-085

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-11
Sample Description	: FEEBRIS1D-7 084-085
Sample Type	: SOIL
Sample Size	: 5.029E+02 grams
Facility	: Countroom
Sample Taken On	: 7/24/2015 10:41:58AM
Acquisition Started	: 8/25/2015 3:26:12PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 900.0 seconds
Real Time	: 1055.7 seconds
Dead Time	: 14.75 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 6 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26403

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 3:43:52PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	15.25	15.38	0.0000	0.00
2	32.06	32.18	0.0000	0.00
3	36.48	36.59	0.0000	0.00
4	46.50	46.61	0.0000	0.00
5	67.64	67.73	0.0000	0.00
6	76.30	76.38	0.0000	0.00
7	80.89	80.97	0.0000	0.00
8	83.90	83.98	0.0000	0.00
9	87.21	87.29	0.0000	0.00
10	89.37	89.45	0.0000	0.00
11	94.50	94.58	0.0000	0.00
12	113.07	113.14	0.0000	0.00
13	122.34	122.40	0.0000	0.00
14	143.95	144.00	0.0000	0.00
15	154.03	154.07	0.0000	0.00
16	180.87	180.89	0.0000	0.00
17	186.08	186.11	0.0000	0.00
18	196.11	196.13	0.0000	0.00
19	204.74	204.75	0.0000	0.00
20	210.82	210.83	0.0000	0.00
21	230.18	230.18	0.0000	0.00
22	236.01	236.01	0.0000	0.00
23	241.88	241.88	0.0000	0.00
24	253.73	253.71	0.0000	0.00
25	256.10	256.08	0.0000	0.00
26	258.88	258.87	0.0000	0.00
27	270.02	270.00	0.0000	0.00
28	274.29	274.27	0.0000	0.00
29	281.85	281.82	0.0000	0.00
30	285.17	285.14	0.0000	0.00
31	295.14	295.11	0.0000	0.00
32	300.32	300.29	0.0000	0.00
33	313.71	313.66	0.0000	0.00
34	323.77	323.72	0.0000	0.00
35	329.73	329.68	0.0000	0.00
36	338.22	338.16	0.0000	0.00
37	351.79	351.73	0.0000	0.00
38	371.91	371.83	0.0000	0.00
39	386.57	386.49	0.0000	0.00
40	388.81	388.72	0.0000	0.00
41	401.76	401.67	0.0000	0.00
42	404.85	404.76	0.0000	0.00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	426.89	426.79	0.0000	0.00
44	445.03	444.92	0.0000	0.00
45	454.70	454.59	0.0000	0.00
46	461.78	461.66	0.0000	0.00
47	469.81	469.68	0.0000	0.00
48	474.79	474.67	0.0000	0.00
49	480.48	480.35	0.0000	0.00
50	487.02	486.89	0.0000	0.00
51	502.11	501.97	0.0000	0.00
52	510.81	510.66	0.0000	0.00
53	533.93	533.78	0.0000	0.00
54	543.34	543.18	0.0000	0.00
55	572.62	572.44	0.0000	0.00
56	580.04	579.86	0.0000	0.00
57	598.95	598.76	0.0000	0.00
58	609.30	609.11	0.0000	0.00
59	632.79	632.59	0.0000	0.00
60	640.55	640.34	0.0000	0.00
61	648.83	648.61	0.0000	0.00
62	665.46	665.24	0.0000	0.00
63	697.27	697.04	0.0000	0.00
64	703.46	703.23	0.0000	0.00
65	710.11	709.88	0.0000	0.00
66	719.90	719.65	0.0000	0.00
67	742.42	742.16	0.0000	0.00
68	753.26	753.00	0.0000	0.00
69	768.29	768.03	0.0000	0.00
70	782.57	782.30	0.0000	0.00
71	785.90	785.63	0.0000	0.00
72	806.27	805.99	0.0000	0.00
73	821.08	820.80	0.0000	0.00
74	826.43	826.14	0.0000	0.00
75	831.99	831.69	0.0000	0.00
76	839.13	838.84	0.0000	0.00
77	898.17	897.85	0.0000	0.00
78	911.13	910.80	0.0000	0.00
79	934.13	933.80	0.0000	0.00
80	964.20	963.86	0.0000	0.00
81	1052.07	1051.69	0.0000	0.00
82	1069.86	1069.47	0.0000	0.00
83	1096.84	1096.44	0.0000	0.00
84	1103.95	1103.55	0.0000	0.00
85	1120.42	1120.01	0.0000	0.00
86	1133.69	1133.28	0.0000	0.00
87	1155.32	1154.90	0.0000	0.00
88	1181.98	1181.55	0.0000	0.00
89	1207.78	1207.34	0.0000	0.00
90	1218.31	1217.86	0.0000	0.00
91	1238.27	1237.82	0.0000	0.00
92	1253.71	1253.25	0.0000	0.00
93	1281.12	1280.65	0.0000	0.00
94	1303.47	1303.00	0.0000	0.00
95	1336.87	1336.38	0.0000	0.00
96	1377.80	1377.30	0.0000	0.00
97	1385.48	1384.98	0.0000	0.00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
98	1401.65	1401.15	0.0000	0.00
99	1408.13	1407.63	0.0000	0.00
100	1414.46	1413.95	0.0000	0.00
101	1425.38	1424.87	0.0000	0.00
102	1461.49	1460.97	0.0000	0.00
103	1482.24	1481.71	0.0000	0.00
104	1509.41	1508.88	0.0000	0.00
105	1538.67	1538.12	0.0000	0.00
106	1543.53	1542.99	0.0000	0.00
107	1583.45	1582.89	0.0000	0.00
108	1594.80	1594.24	0.0000	0.00
109	1599.63	1599.07	0.0000	0.00
110	1608.47	1607.91	0.0000	0.00
111	1644.45	1643.87	0.0000	0.00
112	1661.35	1660.78	0.0000	0.00
113	1683.99	1683.40	0.0000	0.00
114	1693.15	1692.56	0.0000	0.00
115	1729.75	1729.16	0.0000	0.00
116	1764.67	1764.06	0.0000	0.00
117	1781.07	1780.47	0.0000	0.00
118	1838.47	1837.85	0.0000	0.00
119	1847.59	1846.96	0.0000	0.00
120	1873.32	1872.69	0.0000	0.00
121	1890.35	1889.72	0.0000	0.00
122	1897.09	1896.45	0.0000	0.00
123	1936.80	1936.15	0.0000	0.00
124	2010.99	2010.33	0.0000	0.00
125	2017.56	2016.90	0.0000	0.00
126	2030.35	2029.68	0.0000	0.00
127	2052.89	2052.22	0.0000	0.00
128	2059.58	2058.91	0.0000	0.00
129	2089.81	2089.14	0.0000	0.00
130	2109.89	2109.22	0.0000	0.00
131	2118.60	2117.92	0.0000	0.00
132	2192.14	2191.45	0.0000	0.00
133	2204.14	2203.45	0.0000	0.00
134	2293.45	2292.74	0.0000	0.00
135	2331.97	2331.25	0.0000	0.00
136	2447.72	2446.99	0.0000	0.00
137	2614.39	2613.65	0.0000	0.00
138	2629.75	2629.01	0.0000	0.00
139	2636.61	2635.87	0.0000	0.00
140	2683.82	2683.08	0.0000	0.00
141	2694.93	2694.18	0.0000	0.00
142	2727.63	2726.89	0.0000	0.00
143	2769.53	2768.78	0.0000	0.00
144	2784.89	2784.14	0.0000	0.00
145	2878.82	2878.06	0.0000	0.00
146	2953.11	2952.36	0.0000	0.00
147	2978.19	2977.44	0.0000	0.00
148	2999.08	2998.32	0.0000	0.00
149	3053.74	3052.98	0.0000	0.00
150	3101.18	3100.43	0.0000	0.00
151	3213.75	3213.00	0.0000	0.00
152	3219.36	3218.61	0.0000	0.00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	15.25	14 -	17	15.38	5.98E+03	689.95	1.18E+05	1.46
M	2	32.06	29 -	41	32.18	8.14E+04	792.49	7.83E+04	1.50
m	3	36.48	29 -	41	36.59	3.03E+04	738.56	8.97E+04	1.77
	4	46.50	44 -	49	46.61	5.31E+03	752.23	1.09E+05	1.64
	5	67.64	65 -	70	67.73	3.28E+04	867.24	1.28E+05	1.58
M	6	76.30	72 -	92	76.38	7.20E+04	1160.58	1.73E+05	2.60
m	7	80.89	72 -	92	80.97	2.21E+04	899.72	1.31E+05	2.12
m	8	83.90	72 -	92	83.98	3.07E+04	798.52	1.10E+05	1.63
m	9	87.21	72 -	92	87.29	1.92E+04	779.37	1.11E+05	1.65
m	10	89.37	72 -	92	89.45	8.87E+03	977.94	1.55E+05	2.39
	11	94.50	92 -	97	94.58	7.57E+03	855.54	1.41E+05	1.71
	12	113.07	112 -	115	113.14	1.22E+03	592.96	8.66E+04	1.45
	13	122.34	121 -	124	122.40	2.58E+03	601.61	8.81E+04	1.66
M	14	143.95	140 -	160	144.00	2.52E+04	816.54	1.26E+05	1.56
m	15	154.03	140 -	160	154.07	1.80E+04	801.00	1.25E+05	1.68
M	16	180.87	178 -	190	180.89	1.78E+03	724.41	1.15E+05	3.09
m	17	186.08	178 -	190	186.11	4.75E+04	843.83	1.15E+05	1.55
	18	196.11	194 -	199	196.13	1.33E+03	820.89	1.34E+05	2.68
	19	204.74	203 -	207	204.75	1.66E+03	680.14	1.01E+05	2.70
	20	210.82	209 -	214	210.83	3.56E+03	762.59	1.13E+05	1.97
M	21	230.18	227 -	246	230.18	4.96E+02	613.63	8.52E+04	1.54
m	22	236.01	227 -	246	236.01	2.91E+04	711.15	8.22E+04	1.55
m	23	241.88	227 -	246	241.88	7.66E+04	827.22	7.75E+04	1.56
M	24	253.73	251 -	262	253.71	4.06E+03	601.60	7.65E+04	1.78
m	25	256.10	251 -	262	256.08	1.74E+04	645.21	7.33E+04	1.65
m	26	258.88	251 -	262	258.87	6.10E+03	718.26	8.50E+04	2.08
M	27	270.02	267 -	277	270.00	5.99E+04	865.43	9.08E+04	2.84
m	28	274.29	267 -	277	274.27	5.63E+03	786.07	8.97E+04	2.36
M	29	281.85	280 -	289	281.82	1.62E+03	459.68	5.03E+04	2.16
m	30	285.17	280 -	289	285.14	8.16E+03	873.98	1.11E+05	2.89
M	31	295.14	291 -	306	295.11	1.86E+05	1004.68	5.80E+04	1.61
m	32	300.32	291 -	306	300.29	1.04E+04	561.05	5.57E+04	1.66
	33	313.71	311 -	317	313.66	3.44E+03	642.00	7.24E+04	3.93
M	34	323.77	320 -	332	323.72	7.56E+03	445.42	4.22E+04	1.43
m	35	329.73	320 -	332	329.68	7.74E+03	450.58	4.41E+04	1.43
	36	338.22	336 -	341	338.16	4.11E+03	583.07	6.47E+04	1.38
	37	351.79	346 -	357	351.73	3.55E+05	1524.83	1.13E+05	1.86
	38	371.91	370 -	375	371.83	1.40E+03	505.75	4.99E+04	2.45
M	39	386.57	384 -	392	386.49	2.34E+03	446.22	4.11E+04	1.73
m	40	388.81	384 -	392	388.72	3.51E+03	518.73	4.94E+04	1.97

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	401.76	398 -	408	401.67	1.27E+04	494.55	4.28E+04	1.64
m	42	404.85	398 -	408	404.76	8.40E+03	506.81	4.30E+04	1.83
	43	426.89	422 -	430	426.79	4.26E+03	692.29	7.06E+04	1.58
	44	445.03	442 -	448	444.92	2.24E+03	495.23	4.29E+04	1.71
	45	454.70	452 -	458	454.59	2.11E+03	481.16	4.04E+04	2.10
	46	461.78	459 -	465	461.66	1.77E+03	470.70	3.90E+04	2.25
	47	469.81	468 -	472	469.68	8.25E+02	352.16	2.68E+04	1.96
	48	474.79	473 -	477	474.67	8.20E+02	347.71	2.61E+04	1.39
	49	480.48	478 -	483	480.35	2.40E+03	402.83	3.05E+04	1.78
	50	487.02	484 -	490	486.89	2.82E+03	447.19	3.42E+04	1.79
	51	502.11	500 -	505	501.97	4.08E+02	364.82	2.63E+04	1.31
	52	510.81	506 -	515	510.66	5.44E+03	566.70	4.27E+04	3.53
	53	533.93	531 -	537	533.78	1.24E+03	409.22	2.96E+04	1.89
	54	543.34	542 -	546	543.18	4.63E+02	308.60	2.08E+04	1.87
	55	572.62	570 -	575	572.44	4.13E+02	345.29	2.35E+04	1.94
	56	580.04	576 -	583	579.86	1.91E+03	444.14	3.16E+04	1.49
	57	598.95	597 -	601	598.76	2.70E+02	290.95	1.85E+04	2.78
	58	609.30	604 -	613	609.11	2.56E+05	1134.27	3.74E+04	1.73
	59	632.79	630 -	636	632.59	5.58E+02	351.32	2.20E+04	3.60
	60	640.55	638 -	643	640.34	3.22E+02	307.38	1.86E+04	4.00
	61	648.83	646 -	651	648.61	3.20E+02	299.98	1.77E+04	2.87
	62	665.46	662 -	669	665.24	7.19E+03	408.20	2.30E+04	1.90
	63	697.27	694 -	700	697.04	3.47E+02	328.31	1.93E+04	1.58
	64	703.46	700 -	707	703.23	2.88E+03	382.16	2.25E+04	2.36
	65	710.11	708 -	714	709.88	3.72E+02	324.84	1.88E+04	4.40
	66	719.90	716 -	723	719.65	1.82E+03	369.59	2.16E+04	2.06
	67	742.42	739 -	746	742.16	1.38E+03	358.12	2.05E+04	2.78
	68	753.26	751 -	756	753.00	3.87E+02	277.18	1.51E+04	2.43
	69	768.29	763 -	773	768.03	2.43E+04	554.56	2.80E+04	1.91
M	70	782.57	781 -	790	782.30	2.02E+02	162.77	7.41E+03	1.65
m	71	785.90	781 -	790	785.63	5.52E+03	310.70	1.49E+04	2.05
	72	806.27	800 -	810	805.99	5.39E+03	480.02	2.78E+04	2.03
	73	821.08	819 -	824	820.80	3.26E+02	282.02	1.57E+04	1.83
M	74	826.43	824 -	835	826.14	7.18E+02	206.47	9.99E+03	2.15
m	75	831.99	824 -	835	831.69	4.36E+03	304.19	1.50E+04	1.99
	76	839.13	836 -	844	838.84	3.08E+03	398.92	2.26E+04	2.04
	77	898.17	896 -	900	897.85	2.74E+02	249.09	1.36E+04	1.83
	78	911.13	908 -	914	910.80	4.00E+02	317.79	1.80E+04	2.58
	79	934.13	929 -	938	933.80	1.26E+04	459.58	2.30E+04	2.11
	80	964.20	960 -	967	963.86	1.26E+03	332.58	1.76E+04	1.77
	81	1052.07	1048 -	1055	1051.69	1.09E+03	294.91	1.38E+04	2.24
	82	1069.86	1066 -	1073	1069.47	9.36E+02	291.90	1.36E+04	2.16
	83	1096.84	1094 -	1099	1096.44	3.07E+02	220.22	9.43E+03	2.14
	84	1103.95	1100 -	1107	1103.55	6.73E+02	281.21	1.28E+04	3.18
	85	1120.42	1115 -	1126	1120.01	5.56E+04	618.49	2.00E+04	2.21
	86	1133.69	1130 -	1137	1133.28	7.00E+02	289.55	1.34E+04	2.00
	87	1155.32	1150 -	1160	1154.90	6.08E+03	402.34	1.83E+04	2.28
	88	1181.98	1178 -	1185	1181.55	6.44E+02	271.12	1.18E+04	2.69
	89	1207.78	1203 -	1211	1207.34	1.43E+03	295.99	1.26E+04	2.20
	90	1218.31	1215 -	1220	1217.86	2.32E+02	203.24	8.09E+03	2.56
	91	1238.27	1233 -	1243	1237.82	2.05E+04	438.33	1.47E+04	2.26
	92	1253.71	1249 -	1257	1253.25	1.22E+03	287.54	1.20E+04	2.15
	93	1281.12	1277 -	1285	1280.65	4.83E+03	306.48	1.15E+04	2.42

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	94	1303.47	1300	1307	1303.00	4.75E+02	240.80	9.35E+03	3.03
	95	1336.87	1334	1339	1336.38	1.96E+02	190.10	7.05E+03	3.18
M	96	1377.80	1370	1389	1377.30	1.43E+04	319.60	8.17E+03	2.33
m	97	1385.48	1370	1389	1384.98	2.80E+03	259.28	9.27E+03	2.60
M	98	1401.65	1396	1420	1401.15	4.43E+03	250.18	8.07E+03	2.42
m	99	1408.13	1396	1420	1407.63	7.53E+03	274.95	8.20E+03	2.35
m	100	1414.46	1396	1420	1413.95	2.84E+02	339.41	1.30E+04	3.68
	101	1425.38	1422	1428	1424.87	3.29E+02	215.33	8.19E+03	3.54
	102	1461.49	1458	1464	1460.97	2.36E+02	213.50	8.10E+03	2.96
	103	1482.24	1479	1485	1481.71	1.87E+02	222.49	8.84E+03	1.89
	104	1509.41	1504	1514	1508.88	6.37E+03	366.98	1.45E+04	2.34
M	105	1538.67	1534	1547	1538.12	1.47E+03	248.29	9.49E+03	2.59
m	106	1543.53	1534	1547	1542.99	1.42E+03	248.65	8.77E+03	2.52
	107	1583.45	1578	1588	1582.89	2.20E+03	283.83	9.56E+03	2.59
M	108	1594.80	1590	1603	1594.24	8.32E+02	208.01	6.63E+03	2.63
m	109	1599.63	1590	1603	1599.07	9.55E+02	211.10	6.52E+03	2.63
	110	1608.47	1605	1611	1607.91	1.66E+02	177.19	5.57E+03	1.46
	111	1644.45	1642	1647	1643.87	1.30E+02	130.39	3.30E+03	1.84
	112	1661.35	1654	1667	1660.78	3.21E+03	280.70	7.31E+03	2.60
	113	1683.99	1678	1687	1683.40	6.36E+02	186.68	4.60E+03	2.43
	114	1693.15	1688	1697	1692.56	8.88E+02	183.98	4.32E+03	3.07
	115	1729.75	1722	1735	1729.16	9.64E+03	301.18	5.79E+03	2.54
	116	1764.67	1757	1771	1764.06	4.43E+04	488.36	6.49E+03	2.70
	117	1781.07	1778	1783	1780.47	1.21E+02	111.14	2.37E+03	2.55
M	118	1838.47	1831	1853	1837.85	9.49E+02	142.10	2.69E+03	2.75
m	119	1847.59	1831	1853	1846.96	5.97E+03	201.76	2.78E+03	2.67
	120	1873.32	1868	1877	1872.69	5.69E+02	167.18	3.67E+03	2.69
M	121	1890.35	1886	1901	1889.72	3.81E+02	120.79	2.42E+03	2.88
m	122	1897.09	1886	1901	1896.45	5.02E+02	173.83	3.68E+03	3.74
	123	1936.80	1931	1942	1936.15	4.58E+02	188.35	4.20E+03	4.42
M	124	2010.99	2007	2021	2010.33	1.53E+02	111.48	2.06E+03	2.55
m	125	2017.56	2007	2021	2016.90	3.19E+02	134.89	2.30E+03	3.48
	126	2030.35	2022	2038	2029.68	2.34E+02	187.75	3.25E+03	12.21
	127	2052.89	2049	2056	2052.22	1.49E+02	99.92	1.57E+03	2.28
	128	2059.58	2056	2062	2058.91	9.75E+01	83.75	1.19E+03	3.70
	129	2089.81	2084	2094	2089.14	1.54E+02	113.88	1.62E+03	4.87
M	130	2109.89	2105	2125	2109.22	1.87E+02	91.91	1.21E+03	3.09
m	131	2118.60	2105	2125	2117.92	3.12E+03	141.14	1.15E+03	3.06
	132	2192.14	2188	2195	2191.45	7.24E+01	80.62	1.04E+03	2.37
	133	2204.14	2197	2210	2203.45	1.17E+04	253.27	1.92E+03	2.88
	134	2293.45	2286	2300	2292.74	7.97E+02	114.03	1.03E+03	2.89
	135	2331.97	2326	2335	2331.25	8.81E+01	56.88	4.04E+02	5.18
	136	2447.72	2441	2454	2446.99	3.46E+03	137.54	5.58E+02	3.13
	137	2614.39	2608	2618	2613.65	2.17E+02	42.61	1.26E+02	3.27
M	138	2629.75	2627	2640	2629.01	1.51E+01	11.78	3.18E+01	2.48
m	139	2636.61	2627	2640	2635.87	2.24E+01	27.26	8.95E+01	3.87
M	140	2683.82	2677	2708	2683.08	2.26E+01	29.24	1.24E+02	3.54
m	141	2694.93	2677	2708	2694.18	8.05E+01	34.51	1.02E+02	3.55
	142	2727.63	2723	2731	2726.89	2.25E+01	28.18	1.09E+02	2.94
	143	2769.53	2762	2775	2768.78	6.44E+01	36.46	1.19E+02	2.33
	144	2784.89	2779	2791	2784.14	3.93E+01	29.62	8.53E+01	4.11
	145	2878.82	2872	2884	2878.06	2.84E+01	22.36	4.53E+01	3.03
	146	2953.11	2944	2960	2952.36	2.62E+01	23.35	3.96E+01	12.43

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
147	2978.19	2973 -	2982	2977.44	3.69E+01	19.57	3.02E+01	3.76
148	2999.08	2992 -	3006	2998.32	3.44E+01	18.67	2.13E+01	5.29
149	3053.74	3046 -	3060	3052.98	4.91E+01	20.22	2.19E+01	4.18
150	3101.18	3096 -	3106	3100.43	1.40E+01	13.07	1.20E+01	5.40
151	3213.75	3210 -	3215	3213.00	7.00E+00	5.29	0.00E+00	1.00
152	3219.36	3216 -	3221	3218.61	5.36E+00	6.08	3.29E+00	1.95

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	15.25	14 -	17	5.98E+03	689.95	1.18E+05	6.22E+02
M	2	32.06	29 -	41	8.14E+04	792.49	7.83E+04	4.60E+02
m	3	36.48	29 -	41	3.03E+04	738.56	8.97E+04	4.92E+02
	4	46.50	44 -	49	5.31E+03	752.23	1.09E+05	6.74E+02
	5	67.64	65 -	70	3.28E+04	867.24	1.28E+05	7.18E+02
M	6	76.30	72 -	92	7.20E+04	1160.58	1.73E+05	6.84E+02
m	7	80.89	72 -	92	2.21E+04	899.72	1.31E+05	5.96E+02
m	8	83.90	72 -	92	3.07E+04	798.52	1.10E+05	5.45E+02
m	9	87.21	72 -	92	1.92E+04	779.37	1.11E+05	5.47E+02
m	10	89.37	72 -	92	8.87E+03	977.94	1.55E+05	6.48E+02
	11	94.50	92 -	97	7.57E+03	855.54	1.41E+05	6.89E+02
	12	113.07	112 -	115	1.22E+03	592.96	8.66E+04	4.84E+02
	13	122.34	121 -	124	2.58E+03	601.61	8.81E+04	4.87E+02
M	14	143.95	140 -	160	2.52E+04	816.54	1.26E+05	5.83E+02
m	15	154.03	140 -	160	1.80E+04	801.00	1.25E+05	5.80E+02
M	16	180.87	178 -	190	1.78E+03	724.41	1.15E+05	5.58E+02
m	17	186.08	178 -	190	4.75E+04	843.83	1.15E+05	5.58E+02
	18	196.11	194 -	199	1.33E+03	820.89	1.34E+05	6.72E+02
	19	204.74	203 -	207	1.66E+03	680.14	1.01E+05	5.55E+02
	20	210.82	209 -	214	3.56E+03	762.59	1.13E+05	6.19E+02
M	21	230.18	227 -	246	4.96E+02	613.63	8.52E+04	4.80E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	22	236.01	227 -	246	2.91E+04	711.15	8.22E+04	4.71E+02
m	23	241.88	227 -	246	7.66E+04	827.22	7.75E+04	4.58E+02
M	24	253.73	251 -	262	4.06E+03	601.60	7.65E+04	4.55E+02
m	25	256.10	251 -	262	1.74E+04	645.21	7.33E+04	4.45E+02
m	26	258.88	251 -	262	6.10E+03	718.26	8.50E+04	4.79E+02
M	27	270.02	267 -	277	5.99E+04	865.43	9.08E+04	4.95E+02
m	28	274.29	267 -	277	5.63E+03	786.07	8.97E+04	4.92E+02
M	29	281.85	280 -	289	1.62E+03	459.68	5.03E+04	3.69E+02
m	30	285.17	280 -	289	8.16E+03	873.98	1.11E+05	5.49E+02
M	31	295.14	291 -	306	1.86E+05	1004.68	5.80E+04	3.96E+02
m	32	300.32	291 -	306	1.04E+04	561.05	5.57E+04	3.88E+02
	33	313.71	311 -	317	3.44E+03	642.00	7.24E+04	5.19E+02
M	34	323.77	320 -	332	7.56E+03	445.42	4.22E+04	3.38E+02
m	35	329.73	320 -	332	7.74E+03	450.58	4.41E+04	3.45E+02
	36	338.22	336 -	341	4.11E+03	583.07	6.47E+04	4.68E+02
	37	351.79	346 -	357	3.55E+05	1524.83	1.13E+05	7.82E+02
	38	371.91	370 -	375	1.40E+03	505.75	4.99E+04	4.11E+02
M	39	386.57	384 -	392	2.34E+03	446.22	4.11E+04	3.33E+02
m	40	388.81	384 -	392	3.51E+03	518.73	4.94E+04	3.65E+02
M	41	401.76	398 -	408	1.27E+04	494.55	4.28E+04	3.40E+02
m	42	404.85	398 -	408	8.40E+03	506.81	4.30E+04	3.41E+02
	43	426.89	422 -	430	4.26E+03	692.29	7.06E+04	5.59E+02
	44	445.03	442 -	448	2.24E+03	495.23	4.29E+04	4.00E+02
	45	454.70	452 -	458	2.11E+03	481.16	4.04E+04	3.88E+02
	46	461.78	459 -	465	1.77E+03	470.70	3.90E+04	3.81E+02
	47	469.81	468 -	472	8.25E+02	352.16	2.68E+04	2.86E+02
	48	474.79	473 -	477	8.20E+02	347.71	2.61E+04	2.82E+02
	49	480.48	478 -	483	2.40E+03	402.83	3.05E+04	3.21E+02
	50	487.02	484 -	490	2.82E+03	447.19	3.42E+04	3.57E+02
	51	502.11	500 -	505	4.08E+02	364.82	2.63E+04	2.98E+02
	52	510.81	506 -	515	5.44E+03	566.70	4.27E+04	4.50E+02
	53	533.93	531 -	537	1.24E+03	409.22	2.96E+04	3.31E+02
	54	543.34	542 -	546	4.63E+02	308.60	2.08E+04	2.51E+02
	55	572.62	570 -	575	4.13E+02	345.29	2.35E+04	2.82E+02
	56	580.04	576 -	583	1.91E+03	444.14	3.16E+04	3.58E+02
	57	598.95	597 -	601	2.70E+02	290.95	1.85E+04	2.38E+02
	58	609.30	604 -	613	2.56E+05	1134.27	3.74E+04	4.20E+02
	59	632.79	630 -	636	5.58E+02	351.32	2.20E+04	2.86E+02
	60	640.55	638 -	643	3.22E+02	307.38	1.86E+04	2.51E+02
	61	648.83	646 -	651	3.20E+02	299.98	1.77E+04	2.45E+02
	62	665.46	662 -	669	7.19E+03	408.20	2.30E+04	3.05E+02
	63	697.27	694 -	700	3.47E+02	328.31	1.93E+04	2.68E+02
	64	703.46	700 -	707	2.88E+03	382.16	2.25E+04	3.02E+02
	65	710.11	708 -	714	3.72E+02	324.84	1.88E+04	2.65E+02
	66	719.90	716 -	723	1.82E+03	369.59	2.16E+04	2.96E+02
	67	742.42	739 -	746	1.38E+03	358.12	2.05E+04	2.88E+02
	68	753.26	751 -	756	3.87E+02	277.18	1.51E+04	2.26E+02
	69	768.29	763 -	773	2.43E+04	554.56	2.80E+04	3.77E+02
M	70	782.57	781 -	790	2.02E+02	162.77	7.41E+03	1.42E+02
m	71	785.90	781 -	790	5.52E+03	310.70	1.49E+04	2.00E+02
	72	806.27	800 -	810	5.39E+03	480.02	2.78E+04	3.76E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	73	821.08	819 -	824	3.26E+02	282.02	1.57E+04	2.30E+02
M	74	826.43	824 -	835	7.18E+02	206.47	9.99E+03	1.64E+02
m	75	831.99	824 -	835	4.36E+03	304.19	1.50E+04	2.01E+02
	76	839.13	836 -	844	3.08E+03	398.92	2.26E+04	3.15E+02
	77	898.17	896 -	900	2.74E+02	249.09	1.36E+04	2.03E+02
	78	911.13	908 -	914	4.00E+02	317.79	1.80E+04	2.59E+02
	79	934.13	929 -	938	1.26E+04	459.58	2.30E+04	3.30E+02
	80	964.20	960 -	967	1.26E+03	332.58	1.76E+04	2.67E+02
	81	1052.07	1048 -	1055	1.09E+03	294.91	1.38E+04	2.36E+02
	82	1069.86	1066 -	1073	9.36E+02	291.90	1.36E+04	2.35E+02
	83	1096.84	1094 -	1099	3.07E+02	220.22	9.43E+03	1.79E+02
	84	1103.95	1100 -	1107	6.73E+02	281.21	1.28E+04	2.27E+02
	85	1120.42	1115 -	1126	5.56E+04	618.49	2.00E+04	3.29E+02
	86	1133.69	1130 -	1137	7.00E+02	289.55	1.34E+04	2.34E+02
	87	1155.32	1150 -	1160	6.08E+03	402.34	1.83E+04	3.05E+02
	88	1181.98	1178 -	1185	6.44E+02	271.12	1.18E+04	2.19E+02
	89	1207.78	1203 -	1211	1.43E+03	295.99	1.26E+04	2.35E+02
	90	1218.31	1215 -	1220	2.32E+02	203.24	8.09E+03	1.65E+02
	91	1238.27	1233 -	1243	2.05E+04	438.33	1.47E+04	2.73E+02
	92	1253.71	1249 -	1257	1.22E+03	287.54	1.20E+04	2.29E+02
	93	1281.12	1277 -	1285	4.83E+03	306.48	1.15E+04	2.25E+02
	94	1303.47	1300 -	1307	4.75E+02	240.80	9.35E+03	1.95E+02
	95	1336.87	1334 -	1339	1.96E+02	190.10	7.05E+03	1.55E+02
M	96	1377.80	1370 -	1389	1.43E+04	319.60	8.17E+03	1.49E+02
m	97	1385.48	1370 -	1389	2.80E+03	259.28	9.27E+03	1.58E+02
M	98	1401.65	1396 -	1420	4.43E+03	250.18	8.07E+03	1.48E+02
m	99	1408.13	1396 -	1420	7.53E+03	274.95	8.20E+03	1.49E+02
m	100	1414.46	1396 -	1420	2.84E+02	339.41	1.30E+04	1.88E+02
	101	1425.38	1422 -	1428	3.29E+02	215.33	8.19E+03	1.74E+02
	102	1461.49	1458 -	1464	2.36E+02	213.50	8.10E+03	1.74E+02
	103	1482.24	1479 -	1485	1.87E+02	222.49	8.84E+03	1.82E+02
	104	1509.41	1504 -	1514	6.37E+03	366.98	1.45E+04	2.72E+02
M	105	1538.67	1534 -	1547	1.47E+03	248.29	9.49E+03	1.60E+02
m	106	1543.53	1534 -	1547	1.42E+03	248.65	8.77E+03	1.54E+02
	107	1583.45	1578 -	1588	2.20E+03	283.83	9.56E+03	2.20E+02
M	108	1594.80	1590 -	1603	8.32E+02	208.01	6.63E+03	1.34E+02
m	109	1599.63	1590 -	1603	9.55E+02	211.10	6.52E+03	1.33E+02
	110	1608.47	1605 -	1611	1.66E+02	177.19	5.57E+03	1.44E+02
	111	1644.45	1642 -	1647	1.30E+02	130.39	3.30E+03	1.06E+02
	112	1661.35	1654 -	1667	3.21E+03	280.70	7.31E+03	2.11E+02
	113	1683.99	1678 -	1687	6.36E+02	186.68	4.60E+03	1.48E+02
	114	1693.15	1688 -	1697	8.88E+02	183.98	4.32E+03	1.43E+02
	115	1729.75	1722 -	1735	9.64E+03	301.18	5.79E+03	1.88E+02
	116	1764.67	1757 -	1771	4.43E+04	488.36	6.49E+03	2.04E+02
	117	1781.07	1778 -	1783	1.21E+02	111.14	2.37E+03	8.95E+01
M	118	1838.47	1831 -	1853	9.49E+02	142.10	2.69E+03	8.53E+01
m	119	1847.59	1831 -	1853	5.97E+03	201.76	2.78E+03	8.67E+01
	120	1873.32	1868 -	1877	5.69E+02	167.18	3.67E+03	1.32E+02
M	121	1890.35	1886 -	1901	3.81E+02	120.79	2.42E+03	8.09E+01
m	122	1897.09	1886 -	1901	5.02E+02	173.83	3.68E+03	9.97E+01
	123	1936.80	1931 -	1942	4.58E+02	188.35	4.20E+03	1.51E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	124	2010.99	2007 -	2021	1.53E+02	111.48	2.06E+03	7.46E+01
m	125	2017.56	2007 -	2021	3.19E+02	134.89	2.30E+03	7.88E+01
	126	2030.35	2022 -	2038	2.34E+02	187.75	3.25E+03	1.52E+02
	127	2052.89	2049 -	2056	1.49E+02	99.92	1.57E+03	7.96E+01
	128	2059.58	2056 -	2062	9.75E+01	83.75	1.19E+03	6.69E+01
	129	2089.81	2084 -	2094	1.54E+02	113.88	1.62E+03	9.14E+01
M	130	2109.89	2105 -	2125	1.87E+02	91.91	1.21E+03	5.72E+01
m	131	2118.60	2105 -	2125	3.12E+03	141.14	1.15E+03	5.58E+01
	132	2192.14	2188 -	2195	7.24E+01	80.62	1.04E+03	6.48E+01
	133	2204.14	2197 -	2210	1.17E+04	253.27	1.92E+03	1.08E+02
	134	2293.45	2286 -	2300	7.97E+02	114.03	1.03E+03	8.14E+01
	135	2331.97	2326 -	2335	8.81E+01	56.88	4.04E+02	4.41E+01
	136	2447.72	2441 -	2454	3.46E+03	137.54	5.58E+02	5.86E+01
	137	2614.39	2608 -	2618	2.17E+02	42.61	1.26E+02	2.53E+01
M	138	2629.75	2627 -	2640	1.51E+01	11.78	3.18E+01	9.28E+00
m	139	2636.61	2627 -	2640	2.24E+01	27.26	8.95E+01	1.56E+01
M	140	2683.82	2677 -	2708	2.26E+01	29.24	1.24E+02	1.83E+01
m	141	2694.93	2677 -	2708	8.05E+01	34.51	1.02E+02	1.66E+01
	142	2727.63	2723 -	2731	2.25E+01	28.18	1.09E+02	2.18E+01
	143	2769.53	2762 -	2775	6.44E+01	36.46	1.19E+02	2.69E+01
	144	2784.89	2779 -	2791	3.93E+01	29.62	8.53E+01	2.21E+01
	145	2878.82	2872 -	2884	2.84E+01	22.36	4.53E+01	1.62E+01
	146	2953.11	2944 -	2960	2.62E+01	23.35	3.96E+01	1.73E+01
	147	2978.19	2973 -	2982	3.69E+01	19.57	3.02E+01	1.26E+01
	148	2999.08	2992 -	3006	3.44E+01	18.67	2.13E+01	1.19E+01
	149	3053.74	3046 -	3060	4.91E+01	20.22	2.19E+01	1.20E+01
	150	3101.18	3096 -	3106	1.40E+01	13.07	1.20E+01	8.81E+00
	151	3213.75	3210 -	3215	7.00E+00	5.29	0.00E+00	0.00E+00
	152	3219.36	3216 -	3221	5.36E+00	6.08	3.29E+00	3.24E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	15.25	14 -	17	15.38	5.98E+03	689.95	1.18E+05	.....
M	2	32.06	29 -	41	32.18	8.14E+04	792.49	7.83E+04	.....
m	3	36.48	29 -	41	36.59	3.03E+04	738.56	8.97E+04	PM-145
									PM-145
									I-125
	4	46.50	44 -	49	46.61	5.31E+03	752.23	1.09E+05	PB-210
	5	67.64	65 -	70	67.73	3.28E+04	867.24	1.28E+05	TH-230
									TA-182
									TI-44
									TM-171
M	6	76.30	72 -	92	76.38	7.20E+04	1160.58	1.73E+05	.....
m	7	80.89	72 -	92	80.97	2.21E+04	899.72	1.31E+05	XE-133
									BA-133
									HF-172
m	8	83.90	72 -	92	83.98	3.07E+04	798.52	1.10E+05	TH-231
m	9	87.21	72 -	92	87.29	1.92E+04	779.37	1.11E+05	SN-126
									NP-237
									EU-155
									CD-109
m	10	89.37	72 -	92	89.45	8.87E+03	977.94	1.55E+05	.....
	11	94.50	92 -	97	94.58	7.57E+03	855.54	1.41E+05	.....
	12	113.07	112 -	115	113.14	1.22E+03	592.96	8.66E+04	.....
	13	122.34	121 -	124	122.40	2.58E+03	601.61	8.81E+04	CO-57
									EU-152
									EU-154
M	14	143.95	140 -	160	144.00	2.52E+04	816.54	1.26E+05	U-235
m	15	154.03	140 -	160	154.07	1.80E+04	801.00	1.25E+05	CS-136
M	16	180.87	178 -	190	180.89	1.78E+03	724.41	1.15E+05	MO-99
									LU-172
m	17	186.08	178 -	190	186.11	4.75E+04	843.83	1.15E+05	RA-226
	18	196.11	194 -	199	196.13	1.33E+03	820.89	1.34E+05	.....
	19	204.74	203 -	207	204.75	1.66E+03	680.14	1.01E+05	U-235
	20	210.82	209 -	214	210.83	3.56E+03	762.59	1.13E+05	.....
M	21	230.18	227 -	246	230.18	4.96E+02	613.63	8.52E+04	.....
m	22	236.01	227 -	246	236.01	2.91E+04	711.15	8.22E+04	TH-227
									NB-95M
m	23	241.88	227 -	246	241.88	7.66E+04	827.22	7.75E+04	RA-224
M	24	253.73	251 -	262	253.71	4.06E+03	601.60	7.65E+04	.....
m	25	256.10	251 -	262	256.08	1.74E+04	645.21	7.33E+04	TH-227
									SN-113
m	26	258.88	251 -	262	258.87	6.10E+03	718.26	8.50E+04	.....
M	27	270.02	267 -	277	270.00	5.99E+04	865.43	9.08E+04	.....
m	28	274.29	267 -	277	274.27	5.63E+03	786.07	8.97E+04	CS-136
M	29	281.85	280 -	289	281.82	1.62E+03	459.68	5.03E+04	.....
m	30	285.17	280 -	289	285.14	8.16E+03	873.98	1.11E+05	PM-149
									I-131
M	31	295.14	291 -	306	295.11	1.86E+05	1004.68	5.80E+04	PB-214
m	32	300.32	291 -	306	300.29	1.04E+04	561.05	5.57E+04	GA-67
									PB-212
									BI-210M
	33	313.71	311 -	317	313.66	3.44E+03	642.00	7.24E+04	.....

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	34	323.77	320 -	332	323.72	7.56E+03	445.42	4.22E+04	RA-223
m	35	329.73	320 -	332	329.68	7.74E+03	450.58	4.41E+04	LA-140
	36	338.22	336 -	341	338.16	4.11E+03	583.07	6.47E+04	AC-228
	37	351.79	346 -	357	351.73	3.55E+05	1524.83	1.13E+05	PB-214
	38	371.91	370 -	375	371.83	1.40E+03	505.75	4.99E+04	.....
M	39	386.57	384 -	392	386.49	2.34E+03	446.22	4.11E+04	.....
m	40	388.81	384 -	392	388.72	3.51E+03	518.73	4.94E+04	.....
M	41	401.76	398 -	408	401.67	1.27E+04	494.55	4.28E+04	RN-219
m	42	404.85	398 -	408	404.76	8.40E+03	506.81	4.30E+04	PB-211
	43	426.89	422 -	430	426.79	4.26E+03	692.29	7.06E+04	SB-125
	44	445.03	442 -	448	444.92	2.24E+03	495.23	4.29E+04	.....
	45	454.70	452 -	458	454.59	2.11E+03	481.16	4.04E+04	PM-146
	46	461.78	459 -	465	461.66	1.77E+03	470.70	3.90E+04	.....
	47	469.81	468 -	472	469.68	8.25E+02	352.16	2.68E+04	.....
	48	474.79	473 -	477	474.67	8.20E+02	347.71	2.61E+04	.....
	49	480.48	478 -	483	480.35	2.40E+03	402.83	3.05E+04	.....
	50	487.02	484 -	490	486.89	2.82E+03	447.19	3.42E+04	LA-140
	51	502.11	500 -	505	501.97	4.08E+02	364.82	2.63E+04	.....
	52	510.81	506 -	515	510.66	5.44E+03	566.70	4.27E+04	.....
	53	533.93	531 -	537	533.78	1.24E+03	409.22	2.96E+04	.....
	54	543.34	542 -	546	543.18	4.63E+02	308.60	2.08E+04	.....
	55	572.62	570 -	575	572.44	4.13E+02	345.29	2.35E+04	.....
	56	580.04	576 -	583	579.86	1.91E+03	444.14	3.16E+04	.....
	57	598.95	597 -	601	598.76	2.70E+02	290.95	1.85E+04	.....
	58	609.30	604 -	613	609.11	2.56E+05	1134.27	3.74E+04	BI-214
	59	632.79	630 -	636	632.59	5.58E+02	351.32	2.20E+04	.....
	60	640.55	638 -	643	640.34	3.22E+02	307.38	1.86E+04	.....
	61	648.83	646 -	651	648.61	3.20E+02	299.98	1.77E+04	.....
	62	665.46	662 -	669	665.24	7.19E+03	408.20	2.30E+04	SB-126 CE-143
	63	697.27	694 -	700	697.04	3.47E+02	328.31	1.93E+04	PM-144
	64	703.46	700 -	707	703.23	2.88E+03	382.16	2.25E+04	NB-94
	65	710.11	708 -	714	709.88	3.72E+02	324.84	1.88E+04	.....
	66	719.90	716 -	723	719.65	1.82E+03	369.59	2.16E+04	SB-126
	67	742.42	739 -	746	742.16	1.38E+03	358.12	2.05E+04	.....
	68	753.26	751 -	756	753.00	3.87E+02	277.18	1.51E+04	.....
	69	768.29	763 -	773	768.03	2.43E+04	554.56	2.80E+04	.....
M	70	782.57	781 -	790	782.30	2.02E+02	162.77	7.41E+03	.....
m	71	785.90	781 -	790	785.63	5.52E+03	310.70	1.49E+04	.....
	72	806.27	800 -	810	805.99	5.39E+03	480.02	2.78E+04	.....
	73	821.08	819 -	824	820.80	3.26E+02	282.02	1.57E+04	.....
M	74	826.43	824 -	835	826.14	7.18E+02	206.47	9.99E+03	.....
m	75	831.99	824 -	835	831.69	4.36E+03	304.19	1.50E+04	PB-211
	76	839.13	836 -	844	838.84	3.08E+03	398.92	2.26E+04	.....
	77	898.17	896 -	900	897.85	2.74E+02	249.09	1.36E+04	Y-88
	78	911.13	908 -	914	910.80	4.00E+02	317.79	1.80E+04	AC-228 LU-172
	79	934.13	929 -	938	933.80	1.26E+04	459.58	2.30E+04	.....
	80	964.20	960 -	967	963.86	1.26E+03	332.58	1.76E+04	EU-152
	81	1052.07	1048 -	1055	1051.69	1.09E+03	294.91	1.38E+04	.....
	82	1069.86	1066 -	1073	1069.47	9.36E+02	291.90	1.36E+04	.....
	83	1096.84	1094 -	1099	1096.44	3.07E+02	220.22	9.43E+03	.....
	84	1103.95	1100 -	1107	1103.55	6.73E+02	281.21	1.28E+04	.....
	85	1120.42	1115 -	1126	1120.01	5.56E+04	618.49	2.00E+04	SC-46

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									BI-214 TA-182
	86	1133.69	1130 -	1137	1133.28	7.00E+02	289.55	1.34E+04	.....
	87	1155.32	1150 -	1160	1154.90	6.08E+03	402.34	1.83E+04	.....
	88	1181.98	1178 -	1185	1181.55	6.44E+02	271.12	1.18E+04	.....
	89	1207.78	1203 -	1211	1207.34	1.43E+03	295.99	1.26E+04	.....
	90	1218.31	1215 -	1220	1217.86	2.32E+02	203.24	8.09E+03	.....
	91	1238.27	1233 -	1243	1237.82	2.05E+04	438.33	1.47E+04	CO-56
	92	1253.71	1249 -	1257	1253.25	1.22E+03	287.54	1.20E+04	.....
	93	1281.12	1277 -	1285	1280.65	4.83E+03	306.48	1.15E+04	.....
	94	1303.47	1300 -	1307	1303.00	4.75E+02	240.80	9.35E+03	.....
	95	1336.87	1334 -	1339	1336.38	1.96E+02	190.10	7.05E+03	.....
M	96	1377.80	1370 -	1389	1377.30	1.43E+04	319.60	8.17E+03	.....
m	97	1385.48	1370 -	1389	1384.98	2.80E+03	259.28	9.27E+03	.....
M	98	1401.65	1396 -	1420	1401.15	4.43E+03	250.18	8.07E+03	.....
m	99	1408.13	1396 -	1420	1407.63	7.53E+03	274.95	8.20E+03	EU-152
m	100	1414.46	1396 -	1420	1413.95	2.84E+02	339.41	1.30E+04	.....
	101	1425.38	1422 -	1428	1424.87	3.29E+02	215.33	8.19E+03	.....
	102	1461.49	1458 -	1464	1460.97	2.36E+02	213.50	8.10E+03	K-40
	103	1482.24	1479 -	1485	1481.71	1.87E+02	222.49	8.84E+03	.....
	104	1509.41	1504 -	1514	1508.88	6.37E+03	366.98	1.45E+04	.....
M	105	1538.67	1534 -	1547	1538.12	1.47E+03	248.29	9.49E+03	.....
m	106	1543.53	1534 -	1547	1542.99	1.42E+03	248.65	8.77E+03	.....
	107	1583.45	1578 -	1588	1582.89	2.20E+03	283.83	9.56E+03	.....
M	108	1594.80	1590 -	1603	1594.24	8.32E+02	208.01	6.63E+03	.....
m	109	1599.63	1590 -	1603	1599.07	9.55E+02	211.10	6.52E+03	.....
	110	1608.47	1605 -	1611	1607.91	1.66E+02	177.19	5.57E+03	.....
	111	1644.45	1642 -	1647	1643.87	1.30E+02	130.39	3.30E+03	.....
	112	1661.35	1654 -	1667	1660.78	3.21E+03	280.70	7.31E+03	.....
	113	1683.99	1678 -	1687	1683.40	6.36E+02	186.68	4.60E+03	.....
	114	1693.15	1688 -	1697	1692.56	8.88E+02	183.98	4.32E+03	.....
	115	1729.75	1722 -	1735	1729.16	9.64E+03	301.18	5.79E+03	.....
	116	1764.67	1757 -	1771	1764.06	4.43E+04	488.36	6.49E+03	BI-214
	117	1781.07	1778 -	1783	1780.47	1.21E+02	111.14	2.37E+03	.....
M	118	1838.47	1831 -	1853	1837.85	9.49E+02	142.10	2.69E+03	.....
m	119	1847.59	1831 -	1853	1846.96	5.97E+03	201.76	2.78E+03	.....
	120	1873.32	1868 -	1877	1872.69	5.69E+02	167.18	3.67E+03	.....
M	121	1890.35	1886 -	1901	1889.72	3.81E+02	120.79	2.42E+03	.....
m	122	1897.09	1886 -	1901	1896.45	5.02E+02	173.83	3.68E+03	.....
	123	1936.80	1931 -	1942	1936.15	4.58E+02	188.35	4.20E+03	.....
M	124	2010.99	2007 -	2021	2010.33	1.53E+02	111.48	2.06E+03	.....
m	125	2017.56	2007 -	2021	2016.90	3.19E+02	134.89	2.30E+03	.....
	126	2030.35	2022 -	2038	2029.68	2.34E+02	187.75	3.25E+03	.....
	127	2052.89	2049 -	2056	2052.22	1.49E+02	99.92	1.57E+03	.....
	128	2059.58	2056 -	2062	2058.91	9.75E+01	83.75	1.19E+03	.....
	129	2089.81	2084 -	2094	2089.14	1.54E+02	113.88	1.62E+03	.....
M	130	2109.89	2105 -	2125	2109.22	1.87E+02	91.91	1.21E+03	.....
m	131	2118.60	2105 -	2125	2117.92	3.12E+03	141.14	1.15E+03	.....
	132	2192.14	2188 -	2195	2191.45	7.24E+01	80.62	1.04E+03	.....
	133	2204.14	2197 -	2210	2203.45	1.17E+04	253.27	1.92E+03	BI-214
	134	2293.45	2286 -	2300	2292.74	7.97E+02	114.03	1.03E+03	.....
	135	2331.97	2326 -	2335	2331.25	8.81E+01	56.88	4.04E+02	.....
	136	2447.72	2441 -	2454	2446.99	3.46E+03	137.54	5.58E+02	.....
	137	2614.39	2608 -	2618	2613.65	2.17E+02	42.61	1.26E+02	TL-208

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	138	2629.75	2627 -	2640	2629.01	1.51E+01	11.78	3.18E+01	.....
m	139	2636.61	2627 -	2640	2635.87	2.24E+01	27.26	8.95E+01	.....
M	140	2683.82	2677 -	2708	2683.08	2.26E+01	29.24	1.24E+02	.....
m	141	2694.93	2677 -	2708	2694.18	8.05E+01	34.51	1.02E+02	.....
	142	2727.63	2723 -	2731	2726.89	2.25E+01	28.18	1.09E+02	.....
	143	2769.53	2762 -	2775	2768.78	6.44E+01	36.46	1.19E+02	.....
	144	2784.89	2779 -	2791	2784.14	3.93E+01	29.62	8.53E+01	.....
	145	2878.82	2872 -	2884	2878.06	2.84E+01	22.36	4.53E+01	.....
	146	2953.11	2944 -	2960	2952.36	2.62E+01	23.35	3.96E+01	.....
	147	2978.19	2973 -	2982	2977.44	3.69E+01	19.57	3.02E+01	.....
	148	2999.08	2992 -	3006	2998.32	3.44E+01	18.67	2.13E+01	.....
	149	3053.74	3046 -	3060	3052.98	4.91E+01	20.22	2.19E+01	.....
	150	3101.18	3096 -	3106	3100.43	1.40E+01	13.07	1.20E+01	.....
	151	3213.75	3210 -	3215	3213.00	7.00E+00	5.29	0.00E+00	.....
	152	3219.36	3216 -	3221	3218.61	5.36E+00	6.08	3.29E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	15.25	5.98E+03	689.95	6.08E-07	1.68E-03
M	2	32.06	8.14E+04	792.49	2.79E-03	1.68E-03
m	3	36.48	3.03E+04	738.56	5.52E-03	1.68E-03
	4	46.50	5.31E+03	752.23	1.34E-02	1.68E-03
	5	67.64	3.28E+04	867.24	2.53E-02	2.48E-03
M	6	76.30	7.20E+04	1160.58	2.74E-02	3.34E-03
m	7	80.89	2.21E+04	899.72	2.80E-02	3.80E-03
m	8	83.90	3.07E+04	798.52	2.82E-02	4.10E-03
m	9	87.21	1.92E+04	779.37	2.84E-02	4.42E-03
m	10	89.37	8.87E+03	977.94	2.85E-02	4.44E-03
	11	94.50	7.57E+03	855.54	2.85E-02	4.22E-03
	12	113.07	1.22E+03	592.96	2.74E-02	3.39E-03
	13	122.34	2.58E+03	601.61	2.66E-02	2.98E-03
M	14	143.95	2.52E+04	816.54	2.46E-02	2.33E-03
m	15	154.03	1.80E+04	801.00	2.37E-02	2.03E-03

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	16	180.87	1.78E+03	724.41	2.15E-02	1.66E-03
m	17	186.08	4.75E+04	843.83	2.11E-02	1.65E-03
	18	196.11	1.33E+03	820.89	2.04E-02	1.64E-03
	19	204.74	1.66E+03	680.14	1.98E-02	1.63E-03
	20	210.82	3.56E+03	762.59	1.94E-02	1.63E-03
M	21	230.18	4.96E+02	613.63	1.83E-02	1.61E-03
m	22	236.01	2.91E+04	711.15	1.80E-02	1.60E-03
m	23	241.88	7.66E+04	827.22	1.77E-02	1.60E-03
M	24	253.73	4.06E+03	601.60	1.71E-02	1.58E-03
m	25	256.10	1.74E+04	645.21	1.70E-02	1.58E-03
m	26	258.88	6.10E+03	718.26	1.69E-02	1.58E-03
M	27	270.02	5.99E+04	865.43	1.64E-02	1.57E-03
m	28	274.29	5.63E+03	786.07	1.63E-02	1.56E-03
M	29	281.85	1.62E+03	459.68	1.60E-02	1.54E-03
m	30	285.17	8.16E+03	873.98	1.58E-02	1.53E-03
M	31	295.14	1.86E+05	1004.68	1.55E-02	1.48E-03
m	32	300.32	1.04E+04	561.05	1.53E-02	1.46E-03
	33	313.71	3.44E+03	642.00	1.48E-02	1.39E-03
M	34	323.77	7.56E+03	445.42	1.45E-02	1.34E-03
m	35	329.73	7.74E+03	450.58	1.43E-02	1.32E-03
	36	338.22	4.11E+03	583.07	1.41E-02	1.28E-03
	37	351.79	3.55E+05	1524.83	1.37E-02	1.21E-03
	38	371.91	1.40E+03	505.75	1.32E-02	1.11E-03
M	39	386.57	2.34E+03	446.22	1.29E-02	1.04E-03
m	40	388.81	3.51E+03	518.73	1.28E-02	1.03E-03
M	41	401.76	1.27E+04	494.55	1.25E-02	1.01E-03
m	42	404.85	8.40E+03	506.81	1.25E-02	1.01E-03
	43	426.89	4.26E+03	692.29	1.20E-02	9.84E-04
	44	445.03	2.24E+03	495.23	1.17E-02	9.65E-04
	45	454.70	2.11E+03	481.16	1.15E-02	9.55E-04
	46	461.78	1.77E+03	470.70	1.14E-02	9.48E-04
	47	469.81	8.25E+02	352.16	1.12E-02	9.40E-04
	48	474.79	8.20E+02	347.71	1.11E-02	9.35E-04
	49	480.48	2.40E+03	402.83	1.10E-02	9.29E-04
	50	487.02	2.82E+03	447.19	1.09E-02	9.23E-04
	51	502.11	4.08E+02	364.82	1.07E-02	9.07E-04
	52	510.81	5.44E+03	566.70	1.06E-02	8.98E-04
	53	533.93	1.24E+03	409.22	1.02E-02	8.75E-04
	54	543.34	4.63E+02	308.60	1.01E-02	8.65E-04
	55	572.62	4.13E+02	345.29	9.71E-03	8.36E-04
	56	580.04	1.91E+03	444.14	9.62E-03	8.28E-04
	57	598.95	2.70E+02	290.95	9.39E-03	8.09E-04
	58	609.30	2.56E+05	1134.27	9.27E-03	7.98E-04
	59	632.79	5.58E+02	351.32	9.01E-03	7.74E-04
	60	640.55	3.22E+02	307.38	8.92E-03	7.67E-04
	61	648.83	3.20E+02	299.98	8.84E-03	7.58E-04
	62	665.46	7.19E+03	408.20	8.67E-03	7.43E-04
	63	697.27	3.47E+02	328.31	8.36E-03	7.22E-04
	64	703.46	2.88E+03	382.16	8.30E-03	7.18E-04
	65	710.11	3.72E+02	324.84	8.24E-03	7.14E-04
	66	719.90	1.82E+03	369.59	8.15E-03	7.08E-04
	67	742.42	1.38E+03	358.12	7.96E-03	6.93E-04
	68	753.26	3.87E+02	277.18	7.86E-03	6.86E-04

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	69	768.29	2.43E+04	554.56	7.74E-03	6.77E-04
M	70	782.57	2.02E+02	162.77	7.63E-03	6.67E-04
m	71	785.90	5.52E+03	310.70	7.60E-03	6.65E-04
	72	806.27	5.39E+03	480.02	7.45E-03	6.52E-04
	73	821.08	3.26E+02	282.02	7.34E-03	6.43E-04
M	74	826.43	7.18E+02	206.47	7.30E-03	6.39E-04
m	75	831.99	4.36E+03	304.19	7.26E-03	6.36E-04
	76	839.13	3.08E+03	398.92	7.21E-03	6.31E-04
	77	898.17	2.74E+02	249.09	6.82E-03	5.93E-04
	78	911.13	4.00E+02	317.79	6.75E-03	5.87E-04
	79	934.13	1.26E+04	459.58	6.61E-03	5.75E-04
	80	964.20	1.26E+03	332.58	6.44E-03	5.60E-04
	81	1052.07	1.09E+03	294.91	6.00E-03	5.15E-04
	82	1069.86	9.36E+02	291.90	5.92E-03	5.06E-04
	83	1096.84	3.07E+02	220.22	5.80E-03	4.92E-04
	84	1103.95	6.73E+02	281.21	5.77E-03	4.88E-04
	85	1120.42	5.56E+04	618.49	5.70E-03	4.80E-04
	86	1133.69	7.00E+02	289.55	5.65E-03	4.73E-04
	87	1155.32	6.08E+03	402.34	5.57E-03	4.62E-04
	88	1181.98	6.44E+02	271.12	5.47E-03	4.57E-04
	89	1207.78	1.43E+03	295.99	5.37E-03	4.69E-04
	90	1218.31	2.32E+02	203.24	5.34E-03	4.74E-04
	91	1238.27	2.05E+04	438.33	5.27E-03	4.83E-04
	92	1253.71	1.22E+03	287.54	5.22E-03	4.90E-04
	93	1281.12	4.83E+03	306.48	5.14E-03	5.03E-04
	94	1303.47	4.75E+02	240.80	5.07E-03	5.13E-04
	95	1336.87	1.96E+02	190.10	4.98E-03	5.25E-04
M	96	1377.80	1.43E+04	319.60	4.87E-03	5.08E-04
m	97	1385.48	2.80E+03	259.28	4.85E-03	5.04E-04
M	98	1401.65	4.43E+03	250.18	4.81E-03	4.98E-04
m	99	1408.13	7.53E+03	274.95	4.79E-03	4.95E-04
m	100	1414.46	2.84E+02	339.41	4.78E-03	4.92E-04
	101	1425.38	3.29E+02	215.33	4.75E-03	4.88E-04
	102	1461.49	2.36E+02	213.50	4.67E-03	4.73E-04
	103	1482.24	1.87E+02	222.49	4.63E-03	4.64E-04
	104	1509.41	6.37E+03	366.98	4.57E-03	4.53E-04
M	105	1538.67	1.47E+03	248.29	4.52E-03	4.41E-04
m	106	1543.53	1.42E+03	248.65	4.51E-03	4.39E-04
	107	1583.45	2.20E+03	283.83	4.44E-03	4.22E-04
M	108	1594.80	8.32E+02	208.01	4.42E-03	4.18E-04
m	109	1599.63	9.55E+02	211.10	4.41E-03	4.16E-04
	110	1608.47	1.66E+02	177.19	4.40E-03	4.12E-04
	111	1644.45	1.30E+02	130.39	4.34E-03	3.97E-04
	112	1661.35	3.21E+03	280.70	4.32E-03	3.90E-04
	113	1683.99	6.36E+02	186.68	4.28E-03	3.81E-04
	114	1693.15	8.88E+02	183.98	4.27E-03	3.77E-04
	115	1729.75	9.64E+03	301.18	4.23E-03	3.62E-04
	116	1764.67	4.43E+04	488.36	4.19E-03	3.47E-04
	117	1781.07	1.21E+02	111.14	4.17E-03	3.41E-04
M	118	1838.47	9.49E+02	142.10	4.11E-03	3.18E-04
m	119	1847.59	5.97E+03	201.76	4.10E-03	3.18E-04
	120	1873.32	5.69E+02	167.18	4.08E-03	3.18E-04
M	121	1890.35	3.81E+02	120.79	4.07E-03	3.18E-04

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	122	1897.09	5.02E+02	173.83	4.06E-03	3.18E-04
	123	1936.80	4.58E+02	188.35	4.03E-03	3.18E-04
M	124	2010.99	1.53E+02	111.48	3.99E-03	3.18E-04
m	125	2017.56	3.19E+02	134.89	3.98E-03	3.18E-04
	126	2030.35	2.34E+02	187.75	3.98E-03	3.18E-04
	127	2052.89	1.49E+02	99.92	3.97E-03	3.18E-04
	128	2059.58	9.75E+01	83.75	3.97E-03	3.18E-04
	129	2089.81	1.54E+02	113.88	3.96E-03	3.18E-04
M	130	2109.89	1.87E+02	91.91	3.95E-03	3.18E-04
m	131	2118.60	3.12E+03	141.14	3.95E-03	3.18E-04
	132	2192.14	7.24E+01	80.62	3.93E-03	3.18E-04
	133	2204.14	1.17E+04	253.27	3.93E-03	3.18E-04
	134	2293.45	7.97E+02	114.03	3.93E-03	3.18E-04
	135	2331.97	8.81E+01	56.88	3.93E-03	3.18E-04
	136	2447.72	3.46E+03	137.54	3.96E-03	3.18E-04
	137	2614.39	2.17E+02	42.61	4.05E-03	3.18E-04
M	138	2629.75	1.51E+01	11.78	4.06E-03	3.18E-04
m	139	2636.61	2.24E+01	27.26	4.07E-03	3.18E-04
M	140	2683.82	2.26E+01	29.24	4.10E-03	3.18E-04
m	141	2694.93	8.05E+01	34.51	4.11E-03	3.18E-04
	142	2727.63	2.25E+01	28.18	4.14E-03	3.18E-04
	143	2769.53	6.44E+01	36.46	4.18E-03	3.18E-04
	144	2784.89	3.93E+01	29.62	4.19E-03	3.18E-04
	145	2878.82	2.84E+01	22.36	4.30E-03	3.18E-04
	146	2953.11	2.62E+01	23.35	4.39E-03	3.18E-04
	147	2978.19	3.69E+01	19.57	4.42E-03	3.18E-04
	148	2999.08	3.44E+01	18.67	4.45E-03	3.18E-04
	149	3053.74	4.91E+01	20.22	4.53E-03	3.18E-04
	150	3101.18	1.40E+01	13.07	4.61E-03	3.18E-04
	151	3213.75	7.00E+00	5.29	4.81E-03	3.18E-04
	152	3219.36	5.36E+00	6.08	4.82E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	15.25	5.98E+03	689.95			5.98E+03	6.90E+02
M	2	32.06	8.14E+04	792.49			8.14E+04	7.92E+02
m	3	36.48	3.03E+04	738.56			3.03E+04	7.39E+02
	4	46.50	5.31E+03	752.23	1.82E+01	2.20E+00	5.30E+03	7.52E+02
	5	67.64	3.28E+04	867.24			3.28E+04	8.67E+02
M	6	76.30	7.20E+04	1160.58			7.20E+04	1.16E+03
m	7	80.89	2.21E+04	899.72			2.21E+04	9.00E+02
m	8	83.90	3.07E+04	798.52			3.07E+04	7.99E+02
m	9	87.21	1.92E+04	779.37	1.71E+00	3.07E-01	1.92E+04	7.79E+02
m	10	89.37	8.87E+03	977.94			8.87E+03	9.78E+02
	11	94.50	7.57E+03	855.54			7.57E+03	8.56E+02
	12	113.07	1.22E+03	592.96			1.22E+03	5.93E+02
	13	122.34	2.58E+03	601.61			2.58E+03	6.02E+02
M	14	143.95	2.52E+04	816.54			2.52E+04	8.17E+02
m	15	154.03	1.80E+04	801.00			1.80E+04	8.01E+02
M	16	180.87	1.78E+03	724.41			1.78E+03	7.24E+02
m	17	186.08	4.75E+04	843.83	1.19E+01	1.99E+00	4.75E+04	8.44E+02
	18	196.11	1.33E+03	820.89			1.33E+03	8.21E+02
	19	204.74	1.66E+03	680.14			1.66E+03	6.80E+02
	20	210.82	3.56E+03	762.59			3.56E+03	7.63E+02
M	21	230.18	4.96E+02	613.63			4.96E+02	6.14E+02
m	22	236.01	2.91E+04	711.15			2.91E+04	7.11E+02
m	23	241.88	7.66E+04	827.22			7.66E+04	8.27E+02
M	24	253.73	4.06E+03	601.60			4.06E+03	6.02E+02
m	25	256.10	1.74E+04	645.21			1.74E+04	6.45E+02
m	26	258.88	6.10E+03	718.26			6.10E+03	7.18E+02
M	27	270.02	5.99E+04	865.43	4.41E-01	1.56E+00	5.99E+04	8.65E+02
m	28	274.29	5.63E+03	786.07			5.63E+03	7.86E+02
M	29	281.85	1.62E+03	459.68			1.62E+03	4.60E+02
m	30	285.17	8.16E+03	873.98			8.16E+03	8.74E+02
M	31	295.14	1.86E+05	1004.68	2.40E+00	1.48E+00	1.86E+05	1.00E+03
m	32	300.32	1.04E+04	561.05			1.04E+04	5.61E+02
	33	313.71	3.44E+03	642.00			3.44E+03	6.42E+02
M	34	323.77	7.56E+03	445.42			7.56E+03	4.45E+02
m	35	329.73	7.74E+03	450.58			7.74E+03	4.51E+02
	36	338.22	4.11E+03	583.07			4.11E+03	5.83E+02
	37	351.79	3.55E+05	1524.83	3.89E+00	1.38E+00	3.55E+05	1.52E+03
	38	371.91	1.40E+03	505.75			1.40E+03	5.06E+02
M	39	386.57	2.34E+03	446.22			2.34E+03	4.46E+02
m	40	388.81	3.51E+03	518.73			3.51E+03	5.19E+02
M	41	401.76	1.27E+04	494.55			1.27E+04	4.95E+02
m	42	404.85	8.40E+03	506.81			8.40E+03	5.07E+02
	43	426.89	4.26E+03	692.29			4.26E+03	6.92E+02
	44	445.03	2.24E+03	495.23			2.24E+03	4.95E+02
	45	454.70	2.11E+03	481.16			2.11E+03	4.81E+02
	46	461.78	1.77E+03	470.70			1.77E+03	4.71E+02
	47	469.81	8.25E+02	352.16			8.25E+02	3.52E+02
	48	474.79	8.20E+02	347.71			8.20E+02	3.48E+02
	49	480.48	2.40E+03	402.83			2.40E+03	4.03E+02
	50	487.02	2.82E+03	447.19			2.82E+03	4.47E+02
	51	502.11	4.08E+02	364.82			4.08E+02	3.65E+02
	52	510.81	5.44E+03	566.70	2.00E+01	1.38E+00	5.42E+03	5.67E+02
	53	533.93	1.24E+03	409.22			1.24E+03	4.09E+02
	54	543.34	4.63E+02	308.60			4.63E+02	3.09E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	55	572.62	4.13E+02	345.29			4.13E+02	3.45E+02
	56	580.04	1.91E+03	444.14			1.91E+03	4.44E+02
	57	598.95	2.70E+02	290.95			2.70E+02	2.91E+02
	58	609.30	2.56E+05	1134.27	3.44E+00	9.61E-01	2.56E+05	1.13E+03
	59	632.79	5.58E+02	351.32			5.58E+02	3.51E+02
	60	640.55	3.22E+02	307.38			3.22E+02	3.07E+02
	61	648.83	3.20E+02	299.98			3.20E+02	3.00E+02
	62	665.46	7.19E+03	408.20			7.19E+03	4.08E+02
	63	697.27	3.47E+02	328.31			3.47E+02	3.28E+02
	64	703.46	2.88E+03	382.16			2.88E+03	3.82E+02
	65	710.11	3.72E+02	324.84			3.72E+02	3.25E+02
	66	719.90	1.82E+03	369.59			1.82E+03	3.70E+02
	67	742.42	1.38E+03	358.12			1.38E+03	3.58E+02
	68	753.26	3.87E+02	277.18			3.87E+02	2.77E+02
	69	768.29	2.43E+04	554.56			2.43E+04	5.55E+02
M	70	782.57	2.02E+02	162.77			2.02E+02	1.63E+02
m	71	785.90	5.52E+03	310.70			5.52E+03	3.11E+02
	72	806.27	5.39E+03	480.02			5.39E+03	4.80E+02
	73	821.08	3.26E+02	282.02			3.26E+02	2.82E+02
M	74	826.43	7.18E+02	206.47			7.18E+02	2.06E+02
m	75	831.99	4.36E+03	304.19			4.36E+03	3.04E+02
	76	839.13	3.08E+03	398.92			3.08E+03	3.99E+02
	77	898.17	2.74E+02	249.09			2.74E+02	2.49E+02
	78	911.13	4.00E+02	317.79	1.79E+00	6.93E-01	3.98E+02	3.18E+02
	79	934.13	1.26E+04	459.58			1.26E+04	4.60E+02
	80	964.20	1.26E+03	332.58			1.26E+03	3.33E+02
	81	1052.07	1.09E+03	294.91			1.09E+03	2.95E+02
	82	1069.86	9.36E+02	291.90			9.36E+02	2.92E+02
	83	1096.84	3.07E+02	220.22			3.07E+02	2.20E+02
	84	1103.95	6.73E+02	281.21			6.73E+02	2.81E+02
	85	1120.42	5.56E+04	618.49	8.11E-01	6.69E-01	5.56E+04	6.18E+02
	86	1133.69	7.00E+02	289.55			7.00E+02	2.90E+02
	87	1155.32	6.08E+03	402.34			6.08E+03	4.02E+02
	88	1181.98	6.44E+02	271.12			6.44E+02	2.71E+02
	89	1207.78	1.43E+03	295.99			1.43E+03	2.96E+02
	90	1218.31	2.32E+02	203.24			2.32E+02	2.03E+02
	91	1238.27	2.05E+04	438.33	4.41E-01	6.03E-01	2.05E+04	4.38E+02
	92	1253.71	1.22E+03	287.54			1.22E+03	2.88E+02
	93	1281.12	4.83E+03	306.48			4.83E+03	3.06E+02
	94	1303.47	4.75E+02	240.80			4.75E+02	2.41E+02
	95	1336.87	1.96E+02	190.10			1.96E+02	1.90E+02
M	96	1377.80	1.43E+04	319.60			1.43E+04	3.20E+02
m	97	1385.48	2.80E+03	259.28			2.80E+03	2.59E+02
M	98	1401.65	4.43E+03	250.18			4.43E+03	2.50E+02
m	99	1408.13	7.53E+03	274.95			7.53E+03	2.75E+02
m	100	1414.46	2.84E+02	339.41			2.84E+02	3.39E+02
	101	1425.38	3.29E+02	215.33			3.29E+02	2.15E+02
	102	1461.49	2.36E+02	213.50	2.84E+00	6.31E-01	2.33E+02	2.14E+02
	103	1482.24	1.87E+02	222.49			1.87E+02	2.22E+02
	104	1509.41	6.37E+03	366.98			6.37E+03	3.67E+02
M	105	1538.67	1.47E+03	248.29			1.47E+03	2.48E+02
m	106	1543.53	1.42E+03	248.65			1.42E+03	2.49E+02
	107	1583.45	2.20E+03	283.83			2.20E+03	2.84E+02
M	108	1594.80	8.32E+02	208.01			8.32E+02	2.08E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	109	1599.63	9.55E+02	211.10			9.55E+02	2.11E+02
	110	1608.47	1.66E+02	177.19			1.66E+02	1.77E+02
	111	1644.45	1.30E+02	130.39			1.30E+02	1.30E+02
	112	1661.35	3.21E+03	280.70			3.21E+03	2.81E+02
	113	1683.99	6.36E+02	186.68			6.36E+02	1.87E+02
	114	1693.15	8.88E+02	183.98			8.88E+02	1.84E+02
	115	1729.75	9.64E+03	301.18			9.64E+03	3.01E+02
	116	1764.67	4.43E+04	488.36	8.76E-01	5.51E-01	4.43E+04	4.88E+02
	117	1781.07	1.21E+02	111.14			1.21E+02	1.11E+02
M	118	1838.47	9.49E+02	142.10			9.49E+02	1.42E+02
m	119	1847.59	5.97E+03	201.76			5.97E+03	2.02E+02
	120	1873.32	5.69E+02	167.18			5.69E+02	1.67E+02
M	121	1890.35	3.81E+02	120.79			3.81E+02	1.21E+02
m	122	1897.09	5.02E+02	173.83			5.02E+02	1.74E+02
	123	1936.80	4.58E+02	188.35			4.58E+02	1.88E+02
M	124	2010.99	1.53E+02	111.48			1.53E+02	1.11E+02
m	125	2017.56	3.19E+02	134.89			3.19E+02	1.35E+02
	126	2030.35	2.34E+02	187.75			2.34E+02	1.88E+02
	127	2052.89	1.49E+02	99.92			1.49E+02	9.99E+01
	128	2059.58	9.75E+01	83.75			9.75E+01	8.38E+01
	129	2089.81	1.54E+02	113.88			1.54E+02	1.14E+02
M	130	2109.89	1.87E+02	91.91			1.87E+02	9.19E+01
m	131	2118.60	3.12E+03	141.14			3.12E+03	1.41E+02
	132	2192.14	7.24E+01	80.62			7.24E+01	8.06E+01
	133	2204.14	1.17E+04	253.27			1.17E+04	2.53E+02
	134	2293.45	7.97E+02	114.03			7.97E+02	1.14E+02
	135	2331.97	8.81E+01	56.88			8.81E+01	5.69E+01
	136	2447.72	3.46E+03	137.54			3.46E+03	1.38E+02
	137	2614.39	2.17E+02	42.61	2.02E+00	4.28E-01	2.15E+02	4.26E+01
M	138	2629.75	1.51E+01	11.78			1.51E+01	1.18E+01
m	139	2636.61	2.24E+01	27.26			2.24E+01	2.73E+01
M	140	2683.82	2.26E+01	29.24			2.26E+01	2.92E+01
m	141	2694.93	8.05E+01	34.51			8.05E+01	3.45E+01
	142	2727.63	2.25E+01	28.18			2.25E+01	2.82E+01
	143	2769.53	6.44E+01	36.46			6.44E+01	3.65E+01
	144	2784.89	3.93E+01	29.62			3.93E+01	2.96E+01
	145	2878.82	2.84E+01	22.36			2.84E+01	2.24E+01
	146	2953.11	2.62E+01	23.35			2.62E+01	2.34E+01
	147	2978.19	3.69E+01	19.57			3.69E+01	1.96E+01
	148	2999.08	3.44E+01	18.67			3.44E+01	1.87E+01
	149	3053.74	4.91E+01	20.22			4.91E+01	2.02E+01
	150	3101.18	1.40E+01	13.07			1.40E+01	1.31E+01
	151	3213.75	7.00E+00	5.29			7.00E+00	5.29E+00
	152	3219.36	5.36E+00	6.08			5.36E+00	6.08E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	15.25	5.98E+03	689.95			5.98E+03	6.90E+02
M	2	32.06	8.14E+04	792.49			8.14E+04	7.92E+02
m	3	36.48	3.03E+04	738.56			3.03E+04	7.39E+02
	4	46.50	5.31E+03	752.23	1.82E+01	2.20E+00	5.30E+03	7.52E+02
	5	67.64	3.28E+04	867.24			3.28E+04	8.67E+02
M	6	76.30	7.20E+04	1160.58			7.20E+04	1.16E+03
m	7	80.89	2.21E+04	899.72			2.21E+04	9.00E+02
m	8	83.90	3.07E+04	798.52			3.07E+04	7.99E+02
m	9	87.21	1.92E+04	779.37	1.71E+00	3.07E-01	1.92E+04	7.79E+02
m	10	89.37	8.87E+03	977.94			8.87E+03	9.78E+02
	11	94.50	7.57E+03	855.54			7.57E+03	8.56E+02
	12	113.07	1.22E+03	592.96			1.22E+03	5.93E+02
	13	122.34	2.58E+03	601.61			2.58E+03	6.02E+02
M	14	143.95	2.52E+04	816.54			2.52E+04	8.17E+02
m	15	154.03	1.80E+04	801.00			1.80E+04	8.01E+02
M	16	180.87	1.78E+03	724.41			1.78E+03	7.24E+02
m	17	186.08	4.75E+04	843.83	1.19E+01	1.99E+00	4.75E+04	8.44E+02
	18	196.11	1.33E+03	820.89			1.33E+03	8.21E+02
	19	204.74	1.66E+03	680.14			1.66E+03	6.80E+02
	20	210.82	3.56E+03	762.59			3.56E+03	7.63E+02
M	21	230.18	4.96E+02	613.63			4.96E+02	6.14E+02
m	22	236.01	2.91E+04	711.15			2.91E+04	7.11E+02
m	23	241.88	7.66E+04	827.22			7.66E+04	8.27E+02
M	24	253.73	4.06E+03	601.60			4.06E+03	6.02E+02
m	25	256.10	1.74E+04	645.21			1.74E+04	6.45E+02
m	26	258.88	6.10E+03	718.26			6.10E+03	7.18E+02
M	27	270.02	5.99E+04	865.43	4.41E-01	1.56E+00	5.99E+04	8.65E+02
m	28	274.29	5.63E+03	786.07			5.63E+03	7.86E+02
M	29	281.85	1.62E+03	459.68			1.62E+03	4.60E+02
m	30	285.17	8.16E+03	873.98			8.16E+03	8.74E+02
M	31	295.14	1.86E+05	1004.68	2.40E+00	1.48E+00	1.86E+05	1.00E+03
m	32	300.32	1.04E+04	561.05			1.04E+04	5.61E+02
	33	313.71	3.44E+03	642.00			3.44E+03	6.42E+02
M	34	323.77	7.56E+03	445.42			7.56E+03	4.45E+02
m	35	329.73	7.74E+03	450.58			7.74E+03	4.51E+02
	36	338.22	4.11E+03	583.07			4.11E+03	5.83E+02
	37	351.79	3.55E+05	1524.83	3.89E+00	1.38E+00	3.55E+05	1.52E+03
	38	371.91	1.40E+03	505.75			1.40E+03	5.06E+02
M	39	386.57	2.34E+03	446.22			2.34E+03	4.46E+02
m	40	388.81	3.51E+03	518.73			3.51E+03	5.19E+02
M	41	401.76	1.27E+04	494.55			1.27E+04	4.95E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	42	404.85	8.40E+03	506.81			8.40E+03	5.07E+02
	43	426.89	4.26E+03	692.29			4.26E+03	6.92E+02
	44	445.03	2.24E+03	495.23			2.24E+03	4.95E+02
	45	454.70	2.11E+03	481.16			2.11E+03	4.81E+02
	46	461.78	1.77E+03	470.70			1.77E+03	4.71E+02
	47	469.81	8.25E+02	352.16			8.25E+02	3.52E+02
	48	474.79	8.20E+02	347.71			8.20E+02	3.48E+02
	49	480.48	2.40E+03	402.83			2.40E+03	4.03E+02
	50	487.02	2.82E+03	447.19			2.82E+03	4.47E+02
	51	502.11	4.08E+02	364.82			4.08E+02	3.65E+02
	52	510.81	5.44E+03	566.70	2.00E+01	1.38E+00	5.42E+03	5.67E+02
	53	533.93	1.24E+03	409.22			1.24E+03	4.09E+02
	54	543.34	4.63E+02	308.60			4.63E+02	3.09E+02
	55	572.62	4.13E+02	345.29			4.13E+02	3.45E+02
	56	580.04	1.91E+03	444.14			1.91E+03	4.44E+02
	57	598.95	2.70E+02	290.95			2.70E+02	2.91E+02
	58	609.30	2.56E+05	1134.27	3.44E+00	9.61E-01	2.56E+05	1.13E+03
	59	632.79	5.58E+02	351.32			5.58E+02	3.51E+02
	60	640.55	3.22E+02	307.38			3.22E+02	3.07E+02
	61	648.83	3.20E+02	299.98			3.20E+02	3.00E+02
	62	665.46	7.19E+03	408.20			7.19E+03	4.08E+02
	63	697.27	3.47E+02	328.31			3.47E+02	3.28E+02
	64	703.46	2.88E+03	382.16			2.88E+03	3.82E+02
	65	710.11	3.72E+02	324.84			3.72E+02	3.25E+02
	66	719.90	1.82E+03	369.59			1.82E+03	3.70E+02
	67	742.42	1.38E+03	358.12			1.38E+03	3.58E+02
	68	753.26	3.87E+02	277.18			3.87E+02	2.77E+02
	69	768.29	2.43E+04	554.56			2.43E+04	5.55E+02
M	70	782.57	2.02E+02	162.77			2.02E+02	1.63E+02
m	71	785.90	5.52E+03	310.70			5.52E+03	3.11E+02
	72	806.27	5.39E+03	480.02			5.39E+03	4.80E+02
	73	821.08	3.26E+02	282.02			3.26E+02	2.82E+02
M	74	826.43	7.18E+02	206.47			7.18E+02	2.06E+02
m	75	831.99	4.36E+03	304.19			4.36E+03	3.04E+02
	76	839.13	3.08E+03	398.92			3.08E+03	3.99E+02
	77	898.17	2.74E+02	249.09			2.74E+02	2.49E+02
	78	911.13	4.00E+02	317.79	1.79E+00	6.93E-01	3.98E+02	3.18E+02
	79	934.13	1.26E+04	459.58			1.26E+04	4.60E+02
	80	964.20	1.26E+03	332.58			1.26E+03	3.33E+02
	81	1052.07	1.09E+03	294.91			1.09E+03	2.95E+02
	82	1069.86	9.36E+02	291.90			9.36E+02	2.92E+02
	83	1096.84	3.07E+02	220.22			3.07E+02	2.20E+02
	84	1103.95	6.73E+02	281.21			6.73E+02	2.81E+02
	85	1120.42	5.56E+04	618.49	8.11E-01	6.69E-01	5.56E+04	6.18E+02
	86	1133.69	7.00E+02	289.55			7.00E+02	2.90E+02
	87	1155.32	6.08E+03	402.34			6.08E+03	4.02E+02
	88	1181.98	6.44E+02	271.12			6.44E+02	2.71E+02
	89	1207.78	1.43E+03	295.99			1.43E+03	2.96E+02
	90	1218.31	2.32E+02	203.24			2.32E+02	2.03E+02
	91	1238.27	2.05E+04	438.33	4.41E-01	6.03E-01	2.05E+04	4.38E+02
	92	1253.71	1.22E+03	287.54			1.22E+03	2.88E+02
	93	1281.12	4.83E+03	306.48			4.83E+03	3.06E+02
	94	1303.47	4.75E+02	240.80			4.75E+02	2.41E+02
	95	1336.87	1.96E+02	190.10			1.96E+02	1.90E+02

Analysis Report for 1508002-11

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	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	96	1377.80	1.43E+04	319.60			1.43E+04	3.20E+02
m	97	1385.48	2.80E+03	259.28			2.80E+03	2.59E+02
M	98	1401.65	4.43E+03	250.18			4.43E+03	2.50E+02
m	99	1408.13	7.53E+03	274.95			7.53E+03	2.75E+02
m	100	1414.46	2.84E+02	339.41			2.84E+02	3.39E+02
	101	1425.38	3.29E+02	215.33			3.29E+02	2.15E+02
	102	1461.49	2.36E+02	213.50	2.84E+00	6.31E-01	2.33E+02	2.14E+02
	103	1482.24	1.87E+02	222.49			1.87E+02	2.22E+02
	104	1509.41	6.37E+03	366.98			6.37E+03	3.67E+02
M	105	1538.67	1.47E+03	248.29			1.47E+03	2.48E+02
m	106	1543.53	1.42E+03	248.65			1.42E+03	2.49E+02
	107	1583.45	2.20E+03	283.83			2.20E+03	2.84E+02
M	108	1594.80	8.32E+02	208.01			8.32E+02	2.08E+02
m	109	1599.63	9.55E+02	211.10			9.55E+02	2.11E+02
	110	1608.47	1.66E+02	177.19			1.66E+02	1.77E+02
	111	1644.45	1.30E+02	130.39			1.30E+02	1.30E+02
	112	1661.35	3.21E+03	280.70			3.21E+03	2.81E+02
	113	1683.99	6.36E+02	186.68			6.36E+02	1.87E+02
	114	1693.15	8.88E+02	183.98			8.88E+02	1.84E+02
	115	1729.75	9.64E+03	301.18			9.64E+03	3.01E+02
	116	1764.67	4.43E+04	488.36	8.76E-01	5.51E-01	4.43E+04	4.88E+02
	117	1781.07	1.21E+02	111.14			1.21E+02	1.11E+02
M	118	1838.47	9.49E+02	142.10			9.49E+02	1.42E+02
m	119	1847.59	5.97E+03	201.76			5.97E+03	2.02E+02
	120	1873.32	5.69E+02	167.18			5.69E+02	1.67E+02
M	121	1890.35	3.81E+02	120.79			3.81E+02	1.21E+02
m	122	1897.09	5.02E+02	173.83			5.02E+02	1.74E+02
	123	1936.80	4.58E+02	188.35			4.58E+02	1.88E+02
M	124	2010.99	1.53E+02	111.48			1.53E+02	1.11E+02
m	125	2017.56	3.19E+02	134.89			3.19E+02	1.35E+02
	126	2030.35	2.34E+02	187.75			2.34E+02	1.88E+02
	127	2052.89	1.49E+02	99.92			1.49E+02	9.99E+01
	128	2059.58	9.75E+01	83.75			9.75E+01	8.38E+01
	129	2089.81	1.54E+02	113.88			1.54E+02	1.14E+02
M	130	2109.89	1.87E+02	91.91			1.87E+02	9.19E+01
m	131	2118.60	3.12E+03	141.14			3.12E+03	1.41E+02
	132	2192.14	7.24E+01	80.62			7.24E+01	8.06E+01
	133	2204.14	1.17E+04	253.27			1.17E+04	2.53E+02
	134	2293.45	7.97E+02	114.03			7.97E+02	1.14E+02
	135	2331.97	8.81E+01	56.88			8.81E+01	5.69E+01
	136	2447.72	3.46E+03	137.54			3.46E+03	1.38E+02
	137	2614.39	2.17E+02	42.61	2.02E+00	4.28E-01	2.15E+02	4.26E+01
M	138	2629.75	1.51E+01	11.78			1.51E+01	1.18E+01
m	139	2636.61	2.24E+01	27.26			2.24E+01	2.73E+01
M	140	2683.82	2.26E+01	29.24			2.26E+01	2.92E+01
m	141	2694.93	8.05E+01	34.51			8.05E+01	3.45E+01
	142	2727.63	2.25E+01	28.18			2.25E+01	2.82E+01
	143	2769.53	6.44E+01	36.46			6.44E+01	3.65E+01
	144	2784.89	3.93E+01	29.62			3.93E+01	2.96E+01
	145	2878.82	2.84E+01	22.36			2.84E+01	2.24E+01
	146	2953.11	2.62E+01	23.35			2.62E+01	2.34E+01
	147	2978.19	3.69E+01	19.57			3.69E+01	1.96E+01
	148	2999.08	3.44E+01	18.67			3.44E+01	1.87E+01
	149	3053.74	4.91E+01	20.22			4.91E+01	2.02E+01

Analysis Report for 1508002-11

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Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
150	3101.18	1.40E+01	13.07			1.40E+01	1.31E+01
151	3213.75	7.00E+00	5.29			7.00E+00	5.29E+00
152	3219.36	5.36E+00	6.08			5.36E+00	6.08E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.929	1460.81	*	10.67	2.79E+01	2.57E+01
CO-57	0.817	122.06	*	85.51	7.34E+00	1.90E+00
		136.48		10.60		
CD-109	0.897	88.03	*	3.72	1.14E+03	1.95E+02
I-125	0.855	35.49	*	6.49	7.33E+03	2.24E+03
SN-126	0.979	87.57	*	37.00	1.09E+02	1.76E+01
XE-133	0.827	81.00	*	38.00	8.75E+03	1.24E+03
PM-146	0.363	453.90	*	39.94	2.78E+01	6.74E+00
		735.90		14.01		
		747.13		13.10		
PM-149	0.318	285.90	*	3.10	2.40E+07	3.46E+06
EU-155	0.314	86.50	*	30.90	1.32E+02	2.13E+01
		105.30		20.70		
TA-182	0.482	67.75	*	41.20	2.28E+02	2.32E+01
		1121.30	*	34.90	2.03E+03	1.72E+02
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	1.000	46.50	*	4.25	5.58E+02	1.06E+02
PB-211	1.000	404.84	*	2.90	1.39E+03	1.40E+02
		831.96	*	2.90	1.24E+03	1.38E+02
BI-214	0.998	609.31	*	46.30	3.57E+03	3.07E+02
		1120.29	*	15.10	3.85E+03	3.27E+02
		1764.49	*	15.80	4.00E+03	3.35E+02
		2204.22	*	4.98	3.57E+03	2.99E+02
PB-214	0.998	295.21	*	19.19	3.74E+03	3.59E+02
		351.92	*	37.19	4.15E+03	3.67E+02
RN-219	1.000	401.80	*	6.50	9.31E+02	8.33E+01

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Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
RA-223	0.998	323.87	*	3.88	8.01E+02	8.79E+01
RA-224	0.878	240.98	*	3.95	6.54E+03	5.94E+02
RA-226	0.997	186.21	*	3.28	4.10E+03	7.51E+03
TH-227	0.502	50.10		8.40		
		236.00	*	11.50	8.40E+02	7.75E+01
		256.20	*	6.30	9.69E+02	9.68E+01
AC-228	0.570	338.32	*	11.40	1.53E+02	2.57E+01
		911.07	*	27.70	1.27E+01	1.02E+01
		969.11		16.60		
TH-231	0.607	25.64		14.70		
		84.21	*	6.40	1.02E+03	1.50E+02
U-235	0.608	143.76	*	10.50	5.82E+02	1.06E+02
		163.35		4.70		
		205.31	*	4.70	1.07E+02	4.81E+01
NP-237	0.924	86.50	*	12.60	3.20E+02	5.16E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 3:43:52PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	15.25	6.64037E+00	5.77		
M	2	32.06	9.04746E+01	0.49		
M	6	76.30	8.00160E+01	0.81		
m	10	89.37	9.85631E+00	5.51		
	11	94.50	8.40888E+00	5.65		
	12	113.07	1.35468E+00	24.32		
m	15	154.03	1.99873E+01	2.23	Sum	
M	16	180.87	1.98303E+00	20.29	Sum	
	18	196.11	1.48050E+00	30.80		
	20	210.82	3.95987E+00	10.70	Sum	
M	21	230.18	5.51265E-01	61.84	Sum	
M	24	253.73	4.51005E+00	7.41	Sum	
m	26	258.88	6.77694E+00	5.89		

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	27	270.02	6.65929E+01	0.72	Sum	
m	28	274.29	6.25645E+00	6.98	Tol.	CS-136
M	29	281.85	1.80066E+00	14.18	Sum	
m	32	300.32	1.15243E+01	2.70	Tol.	GA-67 PB-212
	33	313.71	3.82368E+00	9.33		
m	35	329.73	8.60295E+00	2.91	Sum	
	38	371.91	1.55996E+00	18.01	Sum	
M	39	386.57	2.60046E+00	9.53	Sum	
m	40	388.81	3.90539E+00	7.38	Sum	
	43	426.89	4.73329E+00	8.13		
	44	445.03	2.49075E+00	11.05		
	46	461.78	1.96367E+00	13.32	Sum	
	47	469.81	9.16511E-01	21.35	Sum	
	48	474.79	9.11146E-01	21.20	Sum	
	49	480.48	2.66385E+00	8.40	Sum	
	50	487.02	3.13487E+00	7.93	Tol.	LA-140
	51	502.11	4.52917E-01	44.75	Sum	
	52	510.81	6.02208E+00	5.23	Sum	
	53	533.93	1.37746E+00	16.50		
	54	543.34	5.14565E-01	33.32	Sum	
	55	572.62	4.58657E-01	41.82		
	56	580.04	2.12679E+00	11.60	Sum	
	57	598.95	3.00254E-01	53.83	Sum	
	59	632.79	6.20447E-01	31.46	Sum	
	60	640.55	3.58071E-01	47.69	Sum	
	61	648.83	3.55624E-01	46.86		
	62	665.46	7.98530E+00	2.84	Tol.	CE-143
	63	697.27	3.86108E-01	47.24	Sum	
	64	703.46	3.19667E+00	6.64	Sum	
	65	710.11	4.13694E-01	43.62	Sum	
	66	719.90	2.02519E+00	10.14		
	67	742.42	1.53197E+00	12.99	D-Esc	
	68	753.26	4.29769E-01	35.83	Sum	
	69	768.29	2.70498E+01	1.14		
M	70	782.57	2.24655E-01	40.25		
m	71	785.90	6.13002E+00	2.82		
	72	806.27	5.99102E+00	4.45	Sum	
	73	821.08	3.61711E-01	43.32		
M	74	826.43	7.97916E-01	14.38		
	76	839.13	3.41880E+00	6.48		
	77	898.17	3.04244E-01	45.48	Tol.	Y-88
	79	934.13	1.39796E+01	1.83		
	80	964.20	1.39467E+00	13.25	Tol.	EU-152
	81	1052.07	1.21163E+00	13.52		
	82	1069.86	1.03980E+00	15.60		
	83	1096.84	3.40748E-01	35.90	Sum	
	84	1103.95	7.47894E-01	20.89		
	86	1133.69	7.78019E-01	20.68		
	87	1155.32	6.75881E+00	3.31	Sum	
	88	1181.98	7.15803E-01	21.04	D-Esc	
	89	1207.78	1.59431E+00	10.31	Sum	

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	90	1218.31	2.57664E-01	43.82	Sum	
	91	1238.27	2.27478E+01	1.07	Tol.	CO-56
	92	1253.71	1.35433E+00	11.79	S-Esc	
	93	1281.12	5.36701E+00	3.17		
	94	1303.47	5.27593E-01	25.36		
	95	1336.87	2.17407E-01	48.58		
M	96	1377.80	1.58533E+01	1.12		
m	97	1385.48	3.11399E+00	4.63		
M	98	1401.65	4.92598E+00	2.82		
m	99	1408.13	8.37222E+00	1.82	Tol.	EU-152
m	100	1414.46	3.15616E-01	59.74		
	101	1425.38	3.65095E-01	32.77		
	103	1482.24	2.07347E-01	59.61		
	104	1509.41	7.08036E+00	2.88		
M	105	1538.67	1.63041E+00	8.46		
m	106	1543.53	1.57487E+00	8.77		
	107	1583.45	2.43922E+00	6.46	Sum	
M	108	1594.80	9.24056E-01	12.51		
m	109	1599.63	1.06108E+00	11.05		
	110	1608.47	1.84413E-01	53.38		
	111	1644.45	1.44934E-01	49.98		
	112	1661.35	3.56188E+00	4.38		
	113	1683.99	7.06142E-01	14.69		
	114	1693.15	9.86761E-01	10.36	S-Esc	
	115	1729.75	1.07080E+01	1.56	Sum	
	117	1781.07	1.34712E-01	45.83		
M	118	1838.47	1.05476E+00	7.48		
m	119	1847.59	6.63453E+00	1.69	Sum	
	120	1873.32	6.31938E-01	14.70		
M	121	1890.35	4.23835E-01	15.83		
m	122	1897.09	5.57670E-01	17.32		
	123	1936.80	5.09324E-01	20.54		
M	124	2010.99	1.70448E-01	36.34		
m	125	2017.56	3.54016E-01	21.17		
	126	2030.35	2.60276E-01	40.07		
	127	2052.89	1.65774E-01	33.49		
	128	2059.58	1.08319E-01	42.96	Sum	
	129	2089.81	1.70588E-01	37.09		
M	130	2109.89	2.07746E-01	24.58		
m	131	2118.60	3.47203E+00	2.26		
	132	2192.14	8.04778E-02	55.66		
	134	2293.45	8.85543E-01	7.15	Sum	
	135	2331.97	9.78621E-02	32.29		
	136	2447.72	3.84221E+00	1.99		
	137	2614.39	2.38719E-01	9.92	Tol.	TL-208
M	138	2629.75	1.67424E-02	39.09		
m	139	2636.61	2.48449E-02	60.95		
M	140	2683.82	2.50669E-02	64.80		
m	141	2694.93	8.94090E-02	21.44		
	142	2727.63	2.50000E-02	62.62		
	143	2769.53	7.15054E-02	28.32		
	144	2784.89	4.37127E-02	37.64		
	145	2878.82	3.15251E-02	39.40		
	146	2953.11	2.90942E-02	44.59		

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
147	2978.19	4.10043E-02	26.52		
148	2999.08	3.81728E-02	27.18		
149	3053.74	5.45278E-02	20.60		
150	3101.18	1.55556E-02	46.67		
151	3213.75	7.77778E-03	37.80		
152	3219.36	5.95238E-03	56.77		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.92	1460.81	*	10.67	2.79E+01	2.57E+01
CO-57	0.81	122.06	*	85.51	7.34E+00	1.90E+00
		136.48		10.60		
CD-109	0.89	88.03	*	3.72	1.14E+03	1.95E+02
I-125	0.85	35.49	*	6.49	7.33E+03	2.24E+03
SN-126	0.97	87.57	*	37.00	1.09E+02	1.76E+01
XE-133	0.82	81.00	*	38.00	8.75E+03	1.24E+03
PM-146	0.36	453.90	*	39.94	2.78E+01	6.74E+00
		735.90		14.01		
		747.13		13.10		
PM-149	0.31	285.90	*	3.10	2.40E+07	3.46E+06
EU-155	0.31	86.50	*	30.90	1.32E+02	2.13E+01
		105.30		20.70		
TA-182	0.48	67.75	*	41.20	2.28E+02	2.32E+01
		1121.30	*	34.90	2.03E+03	1.72E+02
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	1.00	46.50	*	4.25	5.58E+02	1.06E+02
PB-211	1.00	404.84	*	2.90	1.39E+03	1.40E+02
		831.96	*	2.90	1.24E+03	1.38E+02
BI-214	0.99	609.31	*	46.30	3.57E+03	3.07E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.99	1120.29	*	15.10	3.85E+03	3.27E+02
		1764.49	*	15.80	4.00E+03	3.35E+02
		2204.22	*	4.98	3.57E+03	2.99E+02
PB-214	0.99	295.21	*	19.19	3.74E+03	3.59E+02
		351.92	*	37.19	4.15E+03	3.67E+02
RN-219	1.00	401.80	*	6.50	9.31E+02	8.33E+01
RA-223	0.99	323.87	*	3.88	8.01E+02	8.79E+01
RA-224	0.87	240.98	*	3.95	6.54E+03	5.94E+02
RA-226	0.99	186.21	*	3.28	4.10E+03	7.51E+03
TH-227	0.50	50.10		8.40		
		236.00	*	11.50	8.40E+02	7.75E+01
		256.20	*	6.30	9.69E+02	9.68E+01
AC-228	0.57	338.32	*	11.40	1.53E+02	2.57E+01
		911.07	*	27.70	1.27E+01	1.02E+01
		969.11		16.60		
TH-231	0.60	25.64		14.70		
		84.21	*	6.40	1.02E+03	1.50E+02
U-235	0.60	143.76	*	10.50	5.82E+02	1.06E+02
		163.35		4.70		
		205.31	*	4.70	1.07E+02	4.81E+01
NP-237	0.92	86.50	*	12.60	3.20E+02	5.16E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.929	2.79E+01	2.57E+01	
	CO-57	0.817	7.34E+00	1.90E+00	
X	NB-95M	0.661			
?	CD-109	0.897	1.14E+03	1.95E+02	
	I-125	0.855	7.33E+03	2.24E+03	
?	SN-126	0.979	1.09E+02	1.76E+01	

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Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	XE-133	0.827	8.75E+03	1.24E+03	
	PM-146	0.363	2.78E+01	6.74E+00	
	PM-149	0.318	2.40E+07	3.46E+06	
?	EU-155	0.314	1.32E+02	2.13E+01	
X	TM-171	0.874			
	TA-182	0.482	2.26E+02	2.30E+01	
	PB-210	1.000	5.58E+02	1.06E+02	
	PB-211	1.000	1.31E+03	9.84E+01	
	BI-214	0.998	3.63E+03	1.58E+02	
	PB-214	0.998	3.94E+03	2.56E+02	
	RN-219	1.000	9.31E+02	8.33E+01	
	RA-223	0.998	8.01E+02	8.79E+01	
	RA-224	0.878	6.54E+03	5.94E+02	
	RA-226	0.997	4.10E+03	7.51E+03	
	TH-227	0.502	8.90E+02	6.05E+01	
	AC-228	0.570	3.18E+01	9.49E+00	
	TH-231	0.607	1.02E+03	1.50E+02	
	U-235	0.608	1.88E+02	4.38E+01	
?	NP-237	0.924	3.20E+02	5.16E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-11

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 3:43:52PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	15.25	6.64037E+00	5.77		
M	2	32.06	9.04746E+01	0.49		
M	6	76.30	8.00160E+01	0.81		
m	10	89.37	9.85631E+00	5.51		
	11	94.50	8.40888E+00	5.65		
	12	113.07	1.35468E+00	24.32		
m	15	154.03	1.99873E+01	2.23	Sum	
M	16	180.87	1.98303E+00	20.29	Sum	
	18	196.11	1.48050E+00	30.80		
	20	210.82	3.95987E+00	10.70	Sum	
M	21	230.18	5.51265E-01	61.84	Sum	
M	24	253.73	4.51005E+00	7.41	Sum	
m	26	258.88	6.77694E+00	5.89		
M	27	270.02	6.65929E+01	0.72	Sum	
m	28	274.29	6.25645E+00	6.98	Tol.	CS-136
M	29	281.85	1.80066E+00	14.18	Sum	
m	32	300.32	1.15243E+01	2.70	Tol.	GA-67 PB-212
	33	313.71	3.82368E+00	9.33		
m	35	329.73	8.60295E+00	2.91	Sum	
	38	371.91	1.55996E+00	18.01	Sum	
M	39	386.57	2.60046E+00	9.53	Sum	
m	40	388.81	3.90539E+00	7.38	Sum	
	43	426.89	4.73329E+00	8.13		
	44	445.03	2.49075E+00	11.05		
	46	461.78	1.96367E+00	13.32	Sum	
	47	469.81	9.16511E-01	21.35	Sum	
	48	474.79	9.11146E-01	21.20	Sum	
	49	480.48	2.66385E+00	8.40	Sum	
	50	487.02	3.13487E+00	7.93	Tol.	LA-140
	51	502.11	4.52917E-01	44.75	Sum	
	52	510.81	6.02208E+00	5.23	Sum	
	53	533.93	1.37746E+00	16.50		

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	54	543.34	5.14565E-01	33.32	Sum	
	55	572.62	4.58657E-01	41.82		
	56	580.04	2.12679E+00	11.60	Sum	
	57	598.95	3.00254E-01	53.83	Sum	
	59	632.79	6.20447E-01	31.46	Sum	
	60	640.55	3.58071E-01	47.69	Sum	
	61	648.83	3.55624E-01	46.86		
	62	665.46	7.98530E+00	2.84	Tol.	CE-143
	63	697.27	3.86108E-01	47.24	Sum	
	64	703.46	3.19667E+00	6.64	Sum	
	65	710.11	4.13694E-01	43.62	Sum	
	66	719.90	2.02519E+00	10.14		
	67	742.42	1.53197E+00	12.99	D-Esc	
	68	753.26	4.29769E-01	35.83	Sum	
	69	768.29	2.70498E+01	1.14		
M	70	782.57	2.24655E-01	40.25		
m	71	785.90	6.13002E+00	2.82		
	72	806.27	5.99102E+00	4.45	Sum	
	73	821.08	3.61711E-01	43.32		
M	74	826.43	7.97916E-01	14.38		
	76	839.13	3.41880E+00	6.48		
	77	898.17	3.04244E-01	45.48	Tol.	Y-88
	79	934.13	1.39796E+01	1.83		
	80	964.20	1.39467E+00	13.25	Tol.	EU-152
	81	1052.07	1.21163E+00	13.52		
	82	1069.86	1.03980E+00	15.60		
	83	1096.84	3.40748E-01	35.90	Sum	
	84	1103.95	7.47894E-01	20.89		
	86	1133.69	7.78019E-01	20.68		
	87	1155.32	6.75881E+00	3.31	Sum	
	88	1181.98	7.15803E-01	21.04	D-Esc	
	89	1207.78	1.59431E+00	10.31	Sum	
	90	1218.31	2.57664E-01	43.82	Sum	
	91	1238.27	2.27478E+01	1.07	Tol.	CO-56
	92	1253.71	1.35433E+00	11.79	S-Esc	
	93	1281.12	5.36701E+00	3.17		
	94	1303.47	5.27593E-01	25.36		
	95	1336.87	2.17407E-01	48.58		
M	96	1377.80	1.58533E+01	1.12		
m	97	1385.48	3.11399E+00	4.63		
M	98	1401.65	4.92598E+00	2.82		
m	99	1408.13	8.37222E+00	1.82	Tol.	EU-152
m	100	1414.46	3.15616E-01	59.74		
	101	1425.38	3.65095E-01	32.77		

Analysis Report for 1508002-11

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	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	103	1482.24	2.07347E-01	59.61		
	104	1509.41	7.08036E+00	2.88		
M	105	1538.67	1.63041E+00	8.46		
m	106	1543.53	1.57487E+00	8.77		
	107	1583.45	2.43922E+00	6.46	Sum	
M	108	1594.80	9.24056E-01	12.51		
m	109	1599.63	1.06108E+00	11.05		
	110	1608.47	1.84413E-01	53.38		
	111	1644.45	1.44934E-01	49.98		
	112	1661.35	3.56188E+00	4.38		
	113	1683.99	7.06142E-01	14.69		
	114	1693.15	9.86761E-01	10.36	S-Esc	
	115	1729.75	1.07080E+01	1.56	Sum	
	117	1781.07	1.34712E-01	45.83		
M	118	1838.47	1.05476E+00	7.48		
m	119	1847.59	6.63453E+00	1.69	Sum	
	120	1873.32	6.31938E-01	14.70		
M	121	1890.35	4.23835E-01	15.83		
m	122	1897.09	5.57670E-01	17.32		
	123	1936.80	5.09324E-01	20.54		
M	124	2010.99	1.70448E-01	36.34		
m	125	2017.56	3.54016E-01	21.17		
	126	2030.35	2.60276E-01	40.07		
	127	2052.89	1.65774E-01	33.49		
	128	2059.58	1.08319E-01	42.96	Sum	
	129	2089.81	1.70588E-01	37.09		
M	130	2109.89	2.07746E-01	24.58		
m	131	2118.60	3.47203E+00	2.26		
	132	2192.14	8.04778E-02	55.66		
	134	2293.45	8.85543E-01	7.15	Sum	
	135	2331.97	9.78621E-02	32.29		
	136	2447.72	3.84221E+00	1.99		
	137	2614.39	2.38719E-01	9.92	Tol.	TL-208
M	138	2629.75	1.67424E-02	39.09		
m	139	2636.61	2.48449E-02	60.95		
M	140	2683.82	2.50669E-02	64.80		
m	141	2694.93	8.94090E-02	21.44		
	142	2727.63	2.50000E-02	62.62		
	143	2769.53	7.15054E-02	28.32		
	144	2784.89	4.37127E-02	37.64		
	145	2878.82	3.15251E-02	39.40		
	146	2953.11	2.90942E-02	44.59		
	147	2978.19	4.10043E-02	26.52		
	148	2999.08	3.81728E-02	27.18		
	149	3053.74	5.45278E-02	20.60		

Analysis Report for 1508002-11

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
150	3101.18	1.55556E-02	46.67		
151	3213.75	7.77778E-03	37.80		
152	3219.36	5.95238E-03	56.77		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-2.23E+02	4.27E+01	4.27E+01
+	NA-22	1274.54		99.94	1.85E+00	3.82E+00	3.82E+00
+	NA-24	1368.53		99.99	5.69E+15	1.48E+15	1.20E+16
		2754.09		99.86	-3.98E+13		1.48E+15
+	AL-26	1808.65		99.76	-1.68E+00	2.71E+00	2.71E+00
+	K-40	1460.81	*	10.67	2.79E+01	4.20E+01	4.20E+01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	8.91E+01	2.86E+00	2.99E+00
		78.34		96.00	6.14E+01		2.86E+00
+	SC-46	889.25		99.98	-4.16E-01	5.11E+00	5.11E+00
		1120.51		99.99	7.57E+02		1.58E+01
+	V-48	983.52		99.98	-5.90E+00	1.50E+01	1.50E+01
		1312.10		97.50	-1.03E+01		1.50E+01
+	CR-51	320.08		9.83	7.19E+00	6.94E+01	6.94E+01
+	MN-54	834.83		99.97	-2.51E+01	4.62E+00	4.62E+00
+	CO-56	846.75		99.96	-4.94E-01	4.88E+00	4.88E+00
		1037.75		14.03	6.38E+00		3.45E+01
		1238.25		67.00	4.57E+02		1.66E+01
		1771.40		15.51	8.39E+00		3.03E+01
		2598.48		16.90	1.16E+00		4.93E+00
+	CO-57	122.06	*	85.51	7.34E+00	2.78E+00	2.78E+00
		136.48		10.60	-9.33E+00		2.80E+01
+	CO-58	810.76		99.40	-1.56E+00	5.18E+00	5.18E+00
+	FE-59	1099.22		56.50	-1.61E+01	1.08E+01	1.08E+01
		1291.56		43.20	-9.02E+00		1.36E+01
+	CO-60	1173.22		100.00	3.72E-01	3.74E+00	3.76E+00

Analysis Report for 1508002-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CO-60	1332.49		100.00	4.36E-01	3.74E+00	3.74E+00
+	ZN-65	1115.52		50.75	-2.09E+00	9.47E+00	9.47E+00
+	GA-67	93.31		35.70	4.81E+03	6.64E+03	6.64E+03
		208.95		2.24	1.78E+05		1.35E+05
		300.22		16.00	-5.45E+04		2.21E+04
+	SE-75	121.11		16.70	1.12E-01	5.53E+00	1.79E+01
		136.00		59.20	-2.54E+00		5.53E+00
		264.65		59.80	6.48E+00		6.17E+00
		279.53		25.20	-5.67E+00		1.49E+01
		400.65		11.40	2.97E+02		4.35E+01
+	RB-82	776.52		13.00	-1.40E+00	6.35E+01	6.35E+01
+	RB-83	520.41		46.00	-3.60E+00	7.73E+00	7.73E+00
		529.64		30.30	-1.82E+00		1.19E+01
		552.65		16.40	1.41E+00		2.20E+01
+	KR-85	513.99		0.43	-1.37E+03	6.77E+02	6.77E+02
+	SR-85	513.99		99.27	-8.40E+00	4.15E+00	4.15E+00
+	Y-88	898.02		93.40	4.12E+00	4.21E+00	5.34E+00
		1836.01		99.38	1.49E+01		4.21E+00
+	NB-93M	16.57		9.43	6.65E+05	2.48E+05	2.48E+05
+	NB-94	702.63		100.00	1.82E+01	3.79E+00	3.79E+00
		871.10		100.00	-3.91E-02		3.80E+00
+	NB-95	765.79		99.81	3.21E+02	1.22E+01	1.22E+01
+	NB-95M	235.69	*	25.00	1.87E+05	1.95E+04	1.95E+04
+	ZR-95	724.18		43.70	-3.76E-01	8.73E+00	1.10E+01
		756.72		55.30	1.90E+00		8.73E+00
+	MO-99	181.06		6.20	2.95E+04	9.08E+04	1.71E+05
		739.58		12.80	-3.01E+04		9.08E+04
		778.00		4.50	-8.06E+04		2.55E+05
+	RU-103	497.08		89.00	-8.31E-01	5.49E+00	5.49E+00
+	RU-106	621.84		9.80	-3.02E+01	3.58E+01	3.58E+01
+	AG-108M	433.93		89.90	4.47E-01	3.43E+00	3.43E+00
		614.37		90.40	6.00E-01		4.90E+00
		722.95		90.50	-3.50E-01		3.89E+00
+	CD-109	88.03	*	3.72	1.14E+03	2.19E+02	2.19E+02
+	AG-110M	657.75		93.14	1.46E-01	3.79E+00	3.79E+00
		677.61		10.53	-1.71E+01		3.36E+01
		706.67		16.46	5.93E+01		2.48E+01
		763.93		21.98	2.73E-02		2.17E+01
		884.67		71.63	-2.17E+00		5.90E+00
		1384.27		23.94	4.38E+00		2.18E+01
+	CD-113M	263.70		0.02	1.40E+04	1.34E+04	1.34E+04
+	SN-113	255.12		1.93	3.66E+03	5.96E+00	2.47E+02
		391.69		64.90	1.42E+00		5.96E+00
+	TE123M	159.00		84.10	4.62E+00	4.38E+00	4.38E+00
+	SB-124	602.71		97.87	-1.41E+00	5.10E+00	5.10E+00
		645.85		7.26	-5.75E+00		6.55E+01
		722.78		11.10	-4.13E+00		4.59E+01
		1691.02		49.00	-1.09E+00		1.03E+01

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-125	35.49	*	6.49	7.33E+03	5.30E+02	5.30E+02
+	SB-125	176.33		6.89	-3.36E+00	1.22E+01	4.54E+01
		427.89		29.33	6.47E+01		1.22E+01
		463.38		10.35	7.31E+01		3.03E+01
		600.56		17.80	-5.47E+00		1.97E+01
		635.90		11.32	-2.51E+01		2.98E+01
+	SB-126	414.70		83.30	-4.92E+00	2.02E+01	2.41E+01
		666.33		99.60	3.08E+02		2.57E+01
		695.00		99.60	-1.44E+00		2.02E+01
		720.50		53.80	1.52E+02		4.09E+01
+	SN-126	87.57	*	37.00	1.09E+02	2.10E+01	2.10E+01
+	SB-127	473.00		25.00	-2.04E+03	3.06E+03	3.89E+03
		685.20		35.70	3.48E+03		3.06E+03
		783.80		14.70	8.79E+04		9.79E+03
+	I-129	29.78		57.00	-4.78E+03	5.53E+01	5.53E+01
		33.60		13.20	-4.29E+03		1.33E+02
		39.58		7.52	-3.41E+02		7.58E+01
+	I-131	284.30		6.05	4.60E+03	6.05E+01	9.19E+02
		364.48		81.20	2.54E+01		6.05E+01
		636.97		7.26	-6.53E+02		7.29E+02
		722.89		1.80	-2.82E+02		3.14E+03
+	TE-132	49.72		13.10	6.19E+04	3.39E+03	2.14E+04
		228.16		88.00	1.55E+03		3.39E+03
+	BA-133	81.00		33.00	-3.94E+00	5.63E+00	6.79E+00
		302.84		17.80	-3.42E+01		2.02E+01
		356.01		60.00	-4.57E+02		5.63E+00
+	I-133	529.87		86.30	-2.50E+10	4.93E+11	4.93E+11
+	XE-133	81.00	*	38.00	8.75E+03	1.47E+03	1.47E+03
+	CS-134	563.23		8.38	5.28E+00	4.17E+00	3.46E+01
		569.32		15.43	-6.37E+00		1.90E+01
		604.70		97.60	-1.01E+00		7.96E+00
		795.84		85.40	-1.74E+00		4.17E+00
		801.93		8.73	-4.53E+02		4.53E+01
+	CS-135	268.24		16.00	-5.46E+01	2.78E+01	2.78E+01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	2.76E+03	2.02E+01	2.45E+02
		163.89		4.61	9.41E+01		3.54E+02
		176.55		13.56	4.66E+01		1.24E+02
		273.65		12.66	-2.52E+03		1.57E+02
		340.57		48.50	2.12E+01		3.74E+01
		818.50		99.70	-6.21E+00		2.02E+01
		1048.07		79.60	8.30E+00		2.58E+01
		1235.34		19.70	3.52E+03		2.11E+02
+	CS-137	661.65		85.12	1.42E+00	4.03E+00	4.03E+00
+	LA-138	788.74		34.00	1.13E+02	5.84E+00	1.28E+01
		1435.80		66.00	7.27E+00		5.84E+00
+	CE-139	165.85		80.35	3.71E-01	4.38E+00	4.38E+00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BA-140	162.64		6.70	-6.06E+01	6.57E+01	2.55E+02
		304.84		4.50	5.70E+02		4.26E+02
		423.70		3.20	-2.53E+03		6.08E+02
		437.55		2.00	4.57E+02		8.74E+02
		537.32		25.00	1.45E+01		6.57E+01
+	LA-140	328.77		20.50	1.03E+03	2.80E+01	1.01E+02
		487.03		45.50	1.97E+02		3.95E+01
		815.85		23.50	-3.05E+01		8.70E+01
		1596.49		95.49	1.22E+02		2.80E+01
+	CE-141	145.44		48.40	2.41E+02	1.39E+01	1.39E+01
+	CE-143	57.36		11.80	-4.61E+07	1.97E+08	2.09E+08
		293.26		42.00	7.42E+09		1.97E+08
		664.55		5.20	1.04E+10		9.12E+08
+	CE-144	133.54		10.80	-1.40E+01	2.68E+01	2.68E+01
+	PM-144	476.78		42.00	-3.87E+01	3.57E+00	7.41E+00
		618.01		98.60	3.23E+00		3.68E+00
		696.49		99.49	3.61E+00		3.57E+00
+	PM-145	36.85		21.70	1.32E+03	2.70E+01	5.25E+01
		37.36		39.70	6.79E+02		2.70E+01
		42.30		15.10	3.21E+00		2.96E+01
		72.40		2.31	-1.00E+03		8.35E+01
+	PM-146	453.90	*	39.94	2.78E+01	1.03E+01	1.03E+01
		735.90		14.01	-3.23E+00		2.41E+01
		747.13		13.10	1.12E+00		2.62E+01
+	ND-147	91.11		28.90	-1.07E+03	6.51E+01	6.51E+01
		531.02		13.10	-3.37E+01		1.66E+02
+	PM-149	285.90	*	3.10	2.40E+07	4.45E+06	4.45E+06
+	EU-152	121.78		20.50	2.44E+01	1.22E+01	1.22E+01
		244.69		5.40	-3.71E+03		6.67E+01
		344.27		19.13	2.92E+01		1.70E+01
		778.89		9.20	-3.11E+00		3.77E+01
		964.01		10.40	1.07E+02		3.97E+01
		1085.78		7.22	1.44E+01		5.04E+01
		1112.02		9.60	4.52E+00		3.91E+01
		1407.95		14.94	4.01E+02		4.25E+01
+	GD-153	97.43		31.30	2.10E+01	8.27E+00	8.27E+00
		103.18		22.20	-1.37E+01		1.11E+01
+	EU-154	123.07		40.50	1.14E+01	6.27E+00	6.27E+00
		723.30		19.70	-1.62E+00		1.80E+01
		873.19		11.50	2.95E+01		3.36E+01
		996.32		10.30	-5.10E+00		3.69E+01
		1004.76		17.90	4.31E+00		2.10E+01
		1274.45		35.50	5.13E+00		1.06E+01
+	EU-155	86.50	*	30.90	1.32E+02	1.11E+01	2.55E+01
		105.30		20.70	-3.15E+00		1.11E+01
+	EU-156	811.77		10.40	-3.89E+01	1.48E+02	1.48E+02
		1153.47		7.20	3.54E+03		3.27E+02
		1230.71		8.90	8.79E+01		1.80E+02
+	HO-166M	184.41		72.60	3.64E+01	5.55E+00	5.55E+00

Analysis Report for 1508002-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	280.45		29.60	-4.02E+00	5.55E+00	1.06E+01
		410.94		11.10	6.32E-01		2.98E+01
		711.69		54.10	3.57E+00		6.21E+00
+	TM-171	66.72	*	0.14	5.70E+04	2.50E+03	2.50E+03
+	HF-172	81.75		4.52	-9.95E+02	2.30E+01	5.24E+01
		125.81		11.30	-1.22E+01		2.30E+01
+	LU-172	181.53		20.60	-7.05E+03	1.63E+02	4.31E+02
		810.06		16.63	-1.90E+02		6.32E+02
		912.12		15.25	5.83E+02		7.35E+02
		1093.66		62.50	-3.08E+01		1.63E+02
+	LU-173	100.72		5.24	-1.19E+02	2.32E+01	4.55E+01
		272.11		21.20	2.10E+02		2.32E+01
+	HF-175	343.40		84.00	9.10E+00	5.32E+00	5.32E+00
+	LU-176	88.34		13.30	2.40E+02	3.29E+00	2.11E+01
		201.83		86.00	2.01E+00		3.77E+00
		306.78		94.00	8.57E-01		3.29E+00
+	TA-182	67.75	*	41.20	2.28E+02	1.00E+01	1.00E+01
		1121.30	*	34.90	2.03E+03		2.41E+01
		1189.05		16.23	-3.23E+00		2.73E+01
		1221.41		26.98	-1.74E+00		1.66E+01
		1231.02		11.44	2.32E+01		3.92E+01
+	IR-192	308.46		29.68	-1.58E-01	8.37E+00	1.38E+01
		468.07		48.10	-2.28E+00		8.37E+00
+	HG-203	279.19		77.30	-2.48E+00	6.50E+00	6.50E+00
+	BI-207	569.67		97.72	-9.79E-01	2.91E+00	2.91E+00
		1063.62		74.90	-2.26E+00		4.85E+00
+	TL-208	583.14		30.22	1.40E+00	3.24E+00	1.19E+01
		860.37		4.48	1.41E+01		8.37E+01
		2614.66		35.85	7.31E+00		3.24E+00
+	BI-210M	262.00		45.00	2.30E+00	6.95E+00	6.95E+00
		300.00		23.00	-4.04E+01		1.63E+01
+	PB-210	46.50	*	4.25	5.58E+02	1.42E+02	1.42E+02
+	PB-211	404.84	*	2.90	1.39E+03	2.12E+02	2.12E+02
		831.96	*	2.90	1.24E+03		2.14E+02
+	BI-212	727.17		11.80	-3.00E+00	2.83E+01	2.83E+01
		1620.62		2.75	-8.01E+00		1.34E+02
+	PB-212	238.63		44.60	-1.08E+03	9.09E+00	9.09E+00
		300.09		3.41	-2.72E+02		1.10E+02
+	BI-214	609.31	*	46.30	3.57E+03	1.17E+01	1.17E+01
		1120.29	*	15.10	3.85E+03		4.59E+01
		1764.49	*	15.80	4.00E+03		3.71E+01
		2204.22	*	4.98	3.57E+03		6.69E+01
+	PB-214	295.21	*	19.19	3.74E+03	1.83E+01	4.18E+01
		351.92	*	37.19	4.15E+03		1.83E+01
+	RN-219	401.80	*	6.50	9.31E+02	9.41E+01	9.41E+01
+	RA-223	323.87	*	3.88	8.01E+02	2.22E+02	2.22E+02
+	RA-224	240.98	*	3.95	6.54E+03	2.59E+02	2.59E+02
+	RA-225	40.00		31.00	-3.59E+02	7.97E+01	7.97E+01

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Analysis Report for 1508002-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-226	186.21	*	3.28	4.10E+03	2.10E+02	2.10E+02
+	TH-227	50.10		8.40	1.00E+02	3.48E+01	3.48E+01
		236.00	*	11.50	8.40E+02		8.75E+01
		256.20	*	6.30	9.69E+02		1.01E+02
+	AC-228	338.32	*	11.40	1.53E+02	1.67E+01	3.49E+01
		911.07	*	27.70	1.27E+01		1.67E+01
		969.11		16.60	4.32E-01		2.28E+01
+	TH-230	48.44		16.90	-9.09E+01	1.86E+01	1.86E+01
		62.85		4.60	6.85E+00		4.40E+01
		67.67		0.37	2.28E+04		7.65E+02
+	PA-231	283.67		1.60	1.08E+03	1.55E+02	2.16E+02
		302.67		2.30	-2.63E+02		1.55E+02
+	TH-231	25.64		14.70	-5.95E+02	1.22E+02	5.92E+02
		84.21	*	6.40	1.02E+03		1.22E+02
+	PA-233	311.98		38.60	-1.77E+00	1.87E+01	1.87E+01
+	PA-234	131.20		20.40	-1.11E+00	1.29E+01	1.29E+01
		733.99		8.80	1.34E+01		3.79E+01
		946.00		12.00	1.18E+01		3.15E+01
+	PA-234M	1001.03		0.92	-1.30E+02	4.08E+02	4.08E+02
+	TH-234	63.29		3.80	8.23E+00	5.29E+01	5.29E+01
+	U-235	143.76	*	10.50	5.82E+02	6.37E+01	9.14E+01
		163.35		4.70	-1.51E+01		6.37E+01
		205.31	*	4.70	1.07E+02		7.14E+01
+	NP-237	86.50	*	12.60	3.20E+02	6.17E+01	6.17E+01
+	NP-239	106.10		22.70	-2.23E+05	1.30E+05	1.30E+05
		228.18		10.70	1.77E+05		3.86E+05
		277.60		14.10	-1.10E+05		2.88E+05
+	AM-241	59.54		35.90	-3.07E+00	5.86E+00	5.86E+00
+	AM-243	74.67		66.00	-8.54E+01	3.93E+00	3.93E+00
+	CM-243	209.75		3.29	2.56E+02	2.22E+01	9.82E+01
		228.14		10.60	1.37E+01		2.99E+01
		277.60		14.00	-8.45E+00		2.22E+01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1508002-11

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	4.27E+01	4.27E+01	-2.23E+02	2.13E+01
	NA-22	1274.54		99.94	3.82E+00	3.82E+00	1.85E+00	1.89E+00
	NA-24	1368.53		99.99	1.20E+16	1.48E+15	5.69E+15	5.96E+15
		2754.09		99.86	1.48E+15		-3.98E+13	6.76E+14
	AL-26	1808.65		99.76	2.71E+00	2.71E+00	-1.68E+00	1.34E+00
+	K-40	1460.81	*	10.67	4.20E+01	4.20E+01	2.79E+01	2.08E+01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	2.99E+00	2.86E+00	8.91E+01	1.49E+00
		78.34		96.00	2.86E+00		6.14E+01	1.43E+00
	SC-46	889.25		99.98	5.11E+00	5.11E+00	-4.16E-01	2.54E+00
		1120.51		99.99	1.58E+01		7.57E+02	7.88E+00
	V-48	983.52		99.98	1.50E+01	1.50E+01	-5.90E+00	7.44E+00
		1312.10		97.50	1.50E+01		-1.03E+01	7.43E+00
	CR-51	320.08		9.83	6.94E+01	6.94E+01	7.19E+00	3.46E+01
	MN-54	834.83		99.97	4.62E+00	4.62E+00	-2.51E+01	2.30E+00
	CO-56	846.75		99.96	4.88E+00	4.88E+00	-4.94E-01	2.43E+00
		1037.75		14.03	3.45E+01		6.38E+00	1.71E+01
		1238.25		67.00	1.66E+01		4.57E+02	8.27E+00
		1771.40		15.51	3.03E+01		8.39E+00	1.50E+01
		2598.48		16.90	4.93E+00		1.16E+00	2.31E+00
+	CO-57	122.06	*	85.51	2.78E+00	2.78E+00	7.34E+00	1.39E+00
		136.48		10.60	2.80E+01		-9.33E+00	1.40E+01
	CO-58	810.76		99.40	5.18E+00	5.18E+00	-1.56E+00	2.58E+00
	FE-59	1099.22		56.50	1.08E+01	1.08E+01	-1.61E+01	5.36E+00
		1291.56		43.20	1.36E+01		-9.02E+00	6.73E+00
	CO-60	1173.22		100.00	3.76E+00	3.74E+00	3.72E-01	1.87E+00
		1332.49		100.00	3.74E+00		4.36E-01	1.85E+00
	ZN-65	1115.52		50.75	9.47E+00	9.47E+00	-2.09E+00	4.71E+00
	GA-67	93.31		35.70	6.64E+03	6.64E+03	4.81E+03	3.31E+03
		208.95		2.24	1.35E+05		1.78E+05	6.73E+04
		300.22		16.00	2.21E+04		-5.45E+04	1.10E+04
	SE-75	121.11		16.70	1.79E+01	5.53E+00	1.12E-01	8.95E+00
		136.00		59.20	5.53E+00		-2.54E+00	2.76E+00
		264.65		59.80	6.17E+00		6.48E+00	3.07E+00
		279.53		25.20	1.49E+01		-5.67E+00	7.45E+00
		400.65		11.40	4.35E+01		2.97E+02	2.17E+01
	RB-82	776.52		13.00	6.35E+01	6.35E+01	-1.40E+00	3.15E+01
	RB-83	520.41		46.00	7.73E+00	7.73E+00	-3.60E+00	3.84E+00
		529.64		30.30	1.19E+01		-1.82E+00	5.90E+00
		552.65		16.40	2.20E+01		1.41E+00	1.09E+01
	KR-85	513.99		0.43	6.77E+02	6.77E+02	-1.37E+03	3.37E+02
	SR-85	513.99		99.27	4.15E+00	4.15E+00	-8.40E+00	2.07E+00
	Y-88	898.02		93.40	5.34E+00	4.21E+00	4.12E+00	2.66E+00
		1836.01		99.38	4.21E+00		1.49E+01	2.08E+00
	NB-93M	16.57		9.43	2.48E+05	2.48E+05	6.65E+05	1.24E+05

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	3.79E+00	3.79E+00	1.82E+01	1.89E+00
		871.10		100.00	3.80E+00		-3.91E-02	1.89E+00
	NB-95	765.79		99.81	1.22E+01	1.22E+01	3.21E+02	6.08E+00
	NB-95M	235.69	*	25.00	1.95E+04	1.95E+04	1.87E+05	9.74E+03
	ZR-95	724.18		43.70	1.10E+01	8.73E+00	-3.76E-01	5.47E+00
		756.72		55.30	8.73E+00		1.90E+00	4.34E+00
	MO-99	181.06		6.20	1.71E+05	9.08E+04	2.95E+04	8.51E+04
		739.58		12.80	9.08E+04		-3.01E+04	4.51E+04
		778.00		4.50	2.55E+05		-8.06E+04	1.27E+05
	RU-103	497.08		89.00	5.49E+00	5.49E+00	-8.31E-01	2.73E+00
	RU-106	621.84		9.80	3.58E+01	3.58E+01	-3.02E+01	1.78E+01
	AG-108M	433.93		89.90	3.43E+00	3.43E+00	4.47E-01	1.71E+00
		614.37		90.40	4.90E+00		6.00E-01	2.44E+00
		722.95		90.50	3.89E+00		-3.50E-01	1.94E+00
+	CD-109	88.03	*	3.72	2.19E+02	2.19E+02	1.14E+03	1.10E+02
	AG-110M	657.75		93.14	3.79E+00	3.79E+00	1.46E-01	1.89E+00
		677.61		10.53	3.36E+01		-1.71E+01	1.67E+01
		706.67		16.46	2.48E+01		5.93E+01	1.23E+01
		763.93		21.98	2.17E+01		2.73E-02	1.08E+01
		884.67		71.63	5.90E+00		-2.17E+00	2.93E+00
		1384.27		23.94	2.18E+01		4.38E+00	1.08E+01
	CD-113M	263.70		0.02	1.34E+04	1.34E+04	1.40E+04	6.68E+03
	SN-113	255.12		1.93	2.47E+02	5.96E+00	3.66E+03	1.23E+02
		391.69		64.90	5.96E+00		1.42E+00	2.97E+00
	TE123M	159.00		84.10	4.38E+00	4.38E+00	4.62E+00	2.19E+00
	SB-124	602.71		97.87	5.10E+00	5.10E+00	-1.41E+00	2.54E+00
		645.85		7.26	6.55E+01		-5.75E+00	3.26E+01
		722.78		11.10	4.59E+01		-4.13E+00	2.28E+01
		1691.02		49.00	1.03E+01		-1.09E+00	5.09E+00
+	I-125	35.49	*	6.49	5.30E+02	5.30E+02	7.33E+03	2.65E+02
	SB-125	176.33		6.89	4.54E+01	1.22E+01	-3.36E+00	2.26E+01
		427.89		29.33	1.22E+01		6.47E+01	6.09E+00
		463.38		10.35	3.03E+01		7.31E+01	1.51E+01
		600.56		17.80	1.97E+01		-5.47E+00	9.79E+00
		635.90		11.32	2.98E+01		-2.51E+01	1.48E+01
	SB-126	414.70		83.30	2.41E+01	2.02E+01	-4.92E+00	1.20E+01
		666.33		99.60	2.57E+01		3.08E+02	1.28E+01
		695.00		99.60	2.02E+01		-1.44E+00	1.01E+01
		720.50		53.80	4.09E+01		1.52E+02	2.03E+01
+	SN-126	87.57	*	37.00	2.10E+01	2.10E+01	1.09E+02	1.05E+01
	SB-127	473.00		25.00	3.89E+03	3.06E+03	-2.04E+03	1.93E+03
		685.20		35.70	3.06E+03		3.48E+03	1.52E+03
		783.80		14.70	9.79E+03		8.79E+04	4.87E+03
	I-129	29.78		57.00	5.53E+01	5.53E+01	-4.78E+03	2.76E+01
		33.60		13.20	1.33E+02		-4.29E+03	6.62E+01
		39.58		7.52	7.58E+01		-3.41E+02	3.78E+01
	I-131	284.30		6.05	9.19E+02	6.05E+01	4.60E+03	4.58E+02
		364.48		81.20	6.05E+01		2.54E+01	3.01E+01
		636.97		7.26	7.29E+02		-6.53E+02	3.63E+02
		722.89		1.80	3.14E+03		-2.82E+02	1.56E+03
	TE-132	49.72		13.10	2.14E+04	3.39E+03	6.19E+04	1.07E+04
		228.16		88.00	3.39E+03		1.55E+03	1.69E+03
	BA-133	81.00		33.00	6.79E+00	5.63E+00	-3.94E+00	3.38E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-133	302.84		17.80	2.02E+01	5.63E+00	-3.42E+01	1.01E+01
		356.01		60.00	5.63E+00		-4.57E+02	2.81E+00
	I-133	529.87		86.30	4.93E+11	4.93E+11	-2.50E+10	2.45E+11
+	XE-133	81.00	*	38.00	1.47E+03	1.47E+03	8.75E+03	7.36E+02
	CS-134	563.23		8.38	3.46E+01	4.17E+00	5.28E+00	1.72E+01
		569.32		15.43	1.90E+01		-6.37E+00	9.42E+00
		604.70		97.60	7.96E+00		-1.01E+00	3.97E+00
		795.84		85.40	4.17E+00		-1.74E+00	2.07E+00
		801.93		8.73	4.53E+01		-4.53E+02	2.25E+01
	CS-135	268.24		16.00	2.78E+01	2.78E+01	-5.46E+01	1.39E+01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.45E+02	2.02E+01	2.76E+03	1.22E+02
		163.89		4.61	3.54E+02		9.41E+01	1.76E+02
		176.55		13.56	1.24E+02		4.66E+01	6.17E+01
		273.65		12.66	1.57E+02		-2.52E+03	7.81E+01
		340.57		48.50	3.74E+01		2.12E+01	1.86E+01
		818.50		99.70	2.02E+01		-6.21E+00	1.00E+01
		1048.07		79.60	2.58E+01		8.30E+00	1.28E+01
		1235.34		19.70	2.11E+02		3.52E+03	1.05E+02
	CS-137	661.65		85.12	4.03E+00	4.03E+00	1.42E+00	2.00E+00
	LA-138	788.74		34.00	1.28E+01	5.84E+00	1.13E+02	6.35E+00
		1435.80		66.00	5.84E+00		7.27E+00	2.89E+00
	CE-139	165.85		80.35	4.38E+00	4.38E+00	3.71E-01	2.18E+00
	BA-140	162.64		6.70	2.55E+02	6.57E+01	-6.06E+01	1.27E+02
		304.84		4.50	4.26E+02		5.70E+02	2.12E+02
		423.70		3.20	6.08E+02		-2.53E+03	3.03E+02
		437.55		2.00	8.74E+02		4.57E+02	4.35E+02
		537.32		25.00	6.57E+01		1.45E+01	3.27E+01
	LA-140	328.77		20.50	1.01E+02	2.80E+01	1.03E+03	5.05E+01
		487.03		45.50	3.95E+01		1.97E+02	1.96E+01
		815.85		23.50	8.70E+01		-3.05E+01	4.33E+01
		1596.49		95.49	2.80E+01		1.22E+02	1.39E+01
	CE-141	145.44		48.40	1.39E+01	1.39E+01	2.41E+02	6.93E+00
	CE-143	57.36		11.80	2.09E+08	1.97E+08	-4.61E+07	1.04E+08
		293.26		42.00	1.97E+08		7.42E+09	9.83E+07
		664.55		5.20	9.12E+08		1.04E+10	4.54E+08
	CE-144	133.54		10.80	2.68E+01	2.68E+01	-1.40E+01	1.33E+01
	PM-144	476.78		42.00	7.41E+00	3.57E+00	-3.87E+01	3.69E+00
		618.01		98.60	3.68E+00		3.23E+00	1.83E+00
		696.49		99.49	3.57E+00		3.61E+00	1.78E+00
	PM-145	36.85		21.70	5.25E+01	2.70E+01	1.32E+03	2.62E+01
		37.36		39.70	2.70E+01		6.79E+02	1.34E+01
		42.30		15.10	2.96E+01		3.21E+00	1.48E+01
		72.40		2.31	8.35E+01		-1.00E+03	4.16E+01
+	PM-146	453.90	*	39.94	1.03E+01	1.03E+01	2.78E+01	5.11E+00
		735.90		14.01	2.41E+01		-3.23E+00	1.20E+01
		747.13		13.10	2.62E+01		1.12E+00	1.30E+01
	ND-147	91.11		28.90	6.51E+01	6.51E+01	-1.07E+03	3.25E+01
		531.02		13.10	1.66E+02		-3.37E+01	8.24E+01
+	PM-149	285.90	*	3.10	4.45E+06	4.45E+06	2.40E+07	2.22E+06
	EU-152	121.78		20.50	1.22E+01	1.22E+01	2.44E+01	6.11E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	6.67E+01	1.22E+01	-3.71E+03	3.32E+01
		344.27		19.13	1.70E+01		2.92E+01	8.46E+00
		778.89		9.20	3.77E+01		-3.11E+00	1.87E+01
		964.01		10.40	3.97E+01		1.07E+02	1.97E+01
		1085.78		7.22	5.04E+01		1.44E+01	2.50E+01
		1112.02		9.60	3.91E+01		4.52E+00	1.94E+01
		1407.95		14.94	4.25E+01		4.01E+02	2.11E+01
	GD-153	97.43		31.30	8.27E+00	8.27E+00	2.10E+01	4.13E+00
		103.18		22.20	1.11E+01		-1.37E+01	5.55E+00
	EU-154	123.07		40.50	6.27E+00	6.27E+00	1.14E+01	3.13E+00
		723.30		19.70	1.80E+01		-1.62E+00	8.95E+00
		873.19		11.50	3.36E+01		2.95E+01	1.67E+01
		996.32		10.30	3.69E+01		-5.10E+00	1.83E+01
		1004.76		17.90	2.10E+01		4.31E+00	1.04E+01
		1274.45		35.50	1.06E+01		5.13E+00	5.24E+00
+	EU-155	86.50	*	30.90	2.55E+01	1.11E+01	1.32E+02	1.27E+01
		105.30		20.70	1.11E+01		-3.15E+00	5.52E+00
	EU-156	811.77		10.40	1.48E+02	1.48E+02	-3.89E+01	7.37E+01
		1153.47		7.20	3.27E+02		3.54E+03	1.63E+02
		1230.71		8.90	1.80E+02		8.79E+01	8.90E+01
	HO-166M	184.41		72.60	5.55E+00	5.55E+00	3.64E+01	2.77E+00
		280.45		29.60	1.06E+01		-4.02E+00	5.28E+00
		410.94		11.10	2.98E+01		6.32E-01	1.49E+01
		711.69		54.10	6.21E+00		3.57E+00	3.09E+00
	TM-171	66.72	*	0.14	2.50E+03	2.50E+03	5.70E+04	1.25E+03
	HF-172	81.75		4.52	5.24E+01	2.30E+01	-9.95E+02	2.61E+01
		125.81		11.30	2.30E+01		-1.22E+01	1.15E+01
	LU-172	181.53		20.60	4.31E+02	1.63E+02	-7.05E+03	2.15E+02
		810.06		16.63	6.32E+02		-1.90E+02	3.14E+02
		912.12		15.25	7.35E+02		5.83E+02	3.65E+02
		1093.66		62.50	1.63E+02		-3.08E+01	8.11E+01
	LU-173	100.72		5.24	4.55E+01	2.32E+01	-1.19E+02	2.27E+01
		272.11		21.20	2.32E+01		2.10E+02	1.16E+01
	HF-175	343.40		84.00	5.32E+00	5.32E+00	9.10E+00	2.65E+00
	LU-176	88.34		13.30	2.11E+01	3.29E+00	2.40E+02	1.05E+01
		201.83		86.00	3.77E+00		2.01E+00	1.88E+00
		306.78		94.00	3.29E+00		8.57E-01	1.64E+00
+	TA-182	67.75	*	41.20	1.00E+01	1.00E+01	2.28E+02	4.99E+00
		1121.30	*	34.90	2.41E+01		2.03E+03	1.20E+01
		1189.05		16.23	2.73E+01		-3.23E+00	1.35E+01
		1221.41		26.98	1.66E+01		-1.74E+00	8.23E+00
		1231.02		11.44	3.92E+01		2.32E+01	1.94E+01
	IR-192	308.46		29.68	1.38E+01	8.37E+00	-1.58E-01	6.89E+00
		468.07		48.10	8.37E+00		-2.28E+00	4.16E+00
	HG-203	279.19		77.30	6.50E+00	6.50E+00	-2.48E+00	3.24E+00
	BI-207	569.67		97.72	2.91E+00	2.91E+00	-9.79E-01	1.45E+00
		1063.62		74.90	4.85E+00		-2.26E+00	2.41E+00
	TL-208	583.14		30.22	1.19E+01	3.24E+00	1.40E+00	5.91E+00
		860.37		4.48	8.37E+01		1.41E+01	4.16E+01
		2614.66		35.85	3.24E+00		7.31E+00	1.56E+00
	BI-210M	262.00		45.00	6.95E+00	6.95E+00	2.30E+00	3.46E+00
		300.00		23.00	1.63E+01		-4.04E+01	8.15E+00
+	PB-210	46.50	*	4.25	1.42E+02	1.42E+02	5.58E+02	7.10E+01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	PB-211	404.84	*	2.90	2.12E+02	2.12E+02	1.39E+03	1.06E+02
		831.96	*	2.90	2.14E+02		1.24E+03	1.07E+02
	BI-212	727.17		11.80	2.83E+01	2.83E+01	-3.00E+00	1.41E+01
		1620.62		2.75	1.34E+02		-8.01E+00	6.65E+01
	PB-212	238.63		44.60	9.09E+00	9.09E+00	-1.08E+03	4.54E+00
		300.09		3.41	1.10E+02		-2.72E+02	5.49E+01
+	BI-214	609.31	*	46.30	1.17E+01	1.17E+01	3.57E+03	5.85E+00
		1120.29	*	15.10	4.59E+01		3.85E+03	2.28E+01
		1764.49	*	15.80	3.71E+01		4.00E+03	1.84E+01
		2204.22	*	4.98	6.69E+01		3.57E+03	3.30E+01
+	PB-214	295.21	*	19.19	4.18E+01	1.83E+01	3.74E+03	2.09E+01
		351.92	*	37.19	1.83E+01		4.15E+03	9.16E+00
+	RN-219	401.80	*	6.50	9.41E+01	9.41E+01	9.31E+02	4.69E+01
+	RA-223	323.87	*	3.88	2.22E+02	2.22E+02	8.01E+02	1.11E+02
+	RA-224	240.98	*	3.95	2.59E+02	2.59E+02	6.54E+03	1.29E+02
	RA-225	40.00		31.00	7.97E+01	7.97E+01	-3.59E+02	3.97E+01
+	RA-226	186.21	*	3.28	2.10E+02	2.10E+02	4.10E+03	1.05E+02
+	TH-227	50.10		8.40	3.48E+01	3.48E+01	1.00E+02	1.73E+01
		236.00	*	11.50	8.75E+01		8.40E+02	4.37E+01
		256.20	*	6.30	1.01E+02		9.69E+02	5.02E+01
+	AC-228	338.32	*	11.40	3.49E+01	1.67E+01	1.53E+02	1.74E+01
		911.07	*	27.70	1.67E+01		1.27E+01	8.29E+00
		969.11		16.60	2.28E+01		4.32E-01	1.13E+01
	TH-230	48.44		16.90	1.86E+01	1.86E+01	-9.09E+01	9.28E+00
		62.85		4.60	4.40E+01		6.85E+00	2.19E+01
		67.67		0.37	7.65E+02		2.28E+04	3.82E+02
	PA-231	283.67		1.60	2.16E+02	1.55E+02	1.08E+03	1.08E+02
		302.67		2.30	1.55E+02		-2.63E+02	7.74E+01
+	TH-231	25.64		14.70	5.92E+02	1.22E+02	-5.95E+02	2.95E+02
		84.21	*	6.40	1.22E+02		1.02E+03	6.10E+01
	PA-233	311.98		38.60	1.87E+01	1.87E+01	-1.77E+00	9.31E+00
	PA-234	131.20		20.40	1.29E+01	1.29E+01	-1.11E+00	6.42E+00
		733.99		8.80	3.79E+01		1.34E+01	1.89E+01
		946.00		12.00	3.15E+01		1.18E+01	1.57E+01
	PA-234M	1001.03		0.92	4.08E+02	4.08E+02	-1.30E+02	2.02E+02
	TH-234	63.29		3.80	5.29E+01	5.29E+01	8.23E+00	2.64E+01
+	U-235	143.76	*	10.50	9.14E+01	6.37E+01	5.82E+02	4.57E+01
		163.35		4.70	6.37E+01		-1.51E+01	3.18E+01
		205.31	*	4.70	7.14E+01		1.07E+02	3.56E+01
+	NP-237	86.50	*	12.60	6.17E+01	6.17E+01	3.20E+02	3.08E+01
	NP-239	106.10		22.70	1.30E+05	1.30E+05	-2.23E+05	6.49E+04
		228.18		10.70	3.86E+05		1.77E+05	1.93E+05
		277.60		14.10	2.88E+05		-1.10E+05	1.43E+05
	AM-241	59.54		35.90	5.86E+00	5.86E+00	-3.07E+00	2.92E+00
	AM-243	74.67		66.00	3.93E+00	3.93E+00	-8.54E+01	1.96E+00
	CM-243	209.75		3.29	9.82E+01	2.22E+01	2.56E+02	4.90E+01
		228.14		10.60	2.99E+01		1.37E+01	1.49E+01
		277.60		14.00	2.22E+01		-8.45E+00	1.11E+01

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	***Comment***	***User***

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-7 084-085

Elapsed Live time: 900
Elapsed Real Time: 1056

Channel								
1:	0	0	0	0	0	19	316	7014
9:	9145	8940	10170	12880	14915	12517	21481	19223
17:	11657	15042	11340	9463	9622	10850	9911	9189
25:	9208	9428	10952	10646	10082	10291	18759	59505
33:	30733	11131	10723	21142	22652	11782	8750	8553
41:	8350	8643	8572	8639	8801	11498	13064	9080
49:	8632	10490	9390	8854	9600	9283	8936	8875
57:	8970	9061	9070	9323	9221	9481	9917	9881
65:	9972	10202	21536	31870	12992	10212	10488	11004
73:	12262	17104	27607	19073	38960	21340	14325	14821
81:	20991	14268	18159	29152	16019	13429	21201	18481
89:	14343	15015	11796	10796	11477	15449	17068	11638
97:	11517	12577	11125	11039	10215	10506	10634	10414
105:	10025	10342	10279	10329	10645	10693	10831	11048
113:	11688	11140	10635	10874	10943	10696	10770	10749
121:	10776	12587	12151	11118	11210	11433	11364	11473
129:	11758	11771	11831	12014	11903	12145	12153	12085
137:	12413	12455	12662	12625	12801	12919	17435	27858
145:	17259	12985	12926	12853	13152	13360	13431	13475
153:	15098	23084	17047	13471	13153	13621	13591	12514
161:	12264	12332	12186	11973	11704	11906	11760	11882
169:	11586	11597	11649	11497	11556	11283	11557	11512
177:	11585	11474	11920	11896	11934	11871	11849	12108
185:	18159	40341	22783	12524	11601	11618	11465	11321
193:	11287	11342	11492	11652	11496	11161	10942	11043
201:	10952	10715	10597	10866	10587	10223	9762	9639
209:	9579	10925	11063	9697	9544	9390	9254	9270
217:	9106	9012	9193	9045	9205	8953	8751	8920
225:	8714	8700	8619	8768	8742	8867	8607	8661
233:	8507	9054	16798	27763	13138	9189	9051	8889
241:	27447	55935	19619	8694	7775	7464	7531	7340
249:	7632	8105	7646	7578	9022	9900	10370	17488
257:	11443	8907	9973	7937	7037	6752	6915	6764
265:	6675	6727	6424	9190	24489	22591	23523	13421
273:	8289	8447	8285	6814	6382	6366	6222	6477
281:	6740	6620	8119	8261	7277	8641	6950	6366
289:	6080	6091	6055	6263	6589	34334	116045	49463
297:	9801	6278	8389	11910	7555	8451	8415	7198
305:	6395	5448	5518	5225	5309	5202	5238	5919
313:	5962	6089	5975	5311	5136	5130	5143	5085
321:	5100	5133	7731	9802	5951	5296	5203	5542
329:	8203	9969	6059	5156	5598	6484	5737	5138
337:	5822	8459	6552	5258	5206	5500	5473	5285
345:	4998	4865	5013	5215	5935	17373	121128	185742
353:	43612	8125	5135	4616	4643	4369	4468	4422
361:	4343	4455	4307	4298	4287	4239	4205	4275

369:	4207	4336	4649	4714	4409	4177	4072	4091

Sample Title: FEEBRIS1D-7 084-085

Channel								
377:	4200	4074	4190	4234	4198	4163	4100	4110
385:	4252	5109	5272	5314	5809	4480	4248	4097
393:	4154	4210	4102	4352	4316	4212	4187	4661
401:	8946	10816	5709	6907	8516	5439	4384	4281
409:	4360	4223	4294	4373	4165	4113	4378	4290
417:	4203	4207	4206	4363	4330	4251	4210	4252
425:	4134	4744	6000	4528	3782	3674	3595	3562
433:	3513	3388	3341	3364	3266	3288	3396	3150
441:	3142	3144	3092	3685	4290	3437	2999	3027
449:	2977	3010	2983	3001	3073	3727	3764	3058
457:	2885	2815	2811	2951	3407	3522	3034	2801
465:	2722	2800	2756	2721	3049	3067	2719	2652
473:	2621	3075	2819	2752	2610	2580	2790	3822
481:	3302	2607	2534	2468	2636	3148	3843	2967
489:	2492	2389	2422	2374	2345	2358	2283	2375
497:	2254	2267	2222	2218	2299	2452	2195	2218
505:	2155	2177	2226	2422	2976	3522	3538	3015
513:	2558	2314	2058	2167	2130	2103	2115	2151
521:	2041	2066	2085	2183	2160	2085	2093	2152
529:	2143	1963	2091	2102	2611	2581	2150	2265
537:	2261	2111	2120	2012	1976	2148	2330	2236
545:	2041	2091	2081	2035	2030	1975	1885	2015
553:	2009	1998	1918	1939	1927	1895	1991	2021
561:	1993	1948	1896	1963	2001	1942	1870	1971
569:	1978	2007	1997	2122	2160	1973	1892	1970
577:	1948	1978	2438	3102	2234	2021	2048	1984
585:	1853	1912	1800	1849	1924	1834	1798	1814
593:	1820	1891	1834	1878	1904	1959	1938	1896
601:	1841	1817	1875	1928	1949	1992	4495	49770
609:	135683	65294	9524	2514	1805	1862	1930	1890
617:	1887	1721	1675	1713	1736	1681	1623	1672
625:	1548	1704	1630	1560	1629	1597	1702	1754
633:	1707	1696	1560	1534	1544	1586	1629	1644
641:	1603	1619	1554	1532	1545	1511	1591	1531
649:	1584	1454	1491	1380	1460	1471	1457	1456
657:	1379	1526	1427	1502	1478	1427	1478	2518
665:	5033	3624	1677	1486	1421	1422	1348	1390
673:	1486	1377	1376	1443	1415	1366	1408	1417
681:	1388	1474	1526	1445	1417	1392	1485	1381
689:	1355	1335	1321	1360	1358	1405	1378	1427
697:	1578	1473	1402	1357	1407	2038	2636	2179
705:	1703	1418	1366	1477	1438	1509	1451	1347
713:	1293	1263	1315	1356	1352	1449	2000	2130
721:	1529	1438	1351	1364	1335	1332	1342	1338
729:	1300	1331	1319	1285	1313	1385	1309	1310
737:	1273	1282	1263	1409	1561	1751	1620	1401
745:	1351	1255	1313	1332	1251	1324	1188	1409
753:	1445	1366	1275	1231	1276	1267	1256	1239
761:	1210	1282	1227	1263	1554	2282	5923	12631
769:	7273	2213	1340	1357	1305	1279	1246	1293
777:	1245	1234	1343	1236	1233	1342	1262	1651
785:	3222	3555	1934	1363	1316	1263	1222	1269
793:	1154	1249	1261	1186	1238	1252	1342	1310

801:	1255	1283	1223	1439	2710	3811	2386	1424

Sample Title: FEEBRIS1D-7 084-085

Channel								
809:	1253	1198	1216	1241	1227	1291	1308	1295
817:	1255	1272	1237	1467	1588	1391	1245	1251
825:	1442	1550	1417	1305	1260	1527	2723	3192
833:	1862	1326	1219	1282	1342	2204	2669	1758
841:	1319	1278	1264	1260	1258	1269	1306	1244
849:	1256	1249	1320	1247	1244	1259	1219	1252
857:	1309	1280	1313	1276	1329	1225	1263	1252
865:	1354	1268	1302	1215	1248	1227	1300	1327
873:	1335	1399	1261	1340	1278	1273	1343	1336
881:	1271	1302	1257	1284	1342	1361	1298	1291
889:	1339	1315	1330	1358	1360	1335	1306	1361
897:	1420	1507	1429	1340	1404	1330	1354	1504
905:	1360	1343	1368	1330	1364	1441	1426	1335
913:	1293	1207	1271	1273	1198	1206	1133	1122
921:	1190	1137	1217	1108	1131	1160	1179	1142
929:	1190	1190	1099	1806	5001	6788	3277	1422
937:	1139	1153	1113	1181	1140	1121	1154	1154
945:	1106	1071	1084	1146	1123	1060	1086	1113
953:	1080	1116	1065	1144	1118	1064	1127	1066
961:	1056	1141	1451	1800	1344	1103	1095	1111
969:	1144	1030	997	1053	999	1089	1023	1028
977:	1040	1016	1022	1021	1027	1042	1032	1005
985:	984	924	1021	1045	1046	1041	988	1011
993:	1005	1014	1024	1083	1011	1037	980	1046
1001:	1059	976	976	941	1010	991	968	922
1009:	980	942	961	993	984	949	940	927
1017:	942	966	918	965	917	1006	918	983
1025:	930	943	890	919	877	888	908	984
1033:	926	881	846	932	882	877	891	926
1041:	843	806	850	854	902	861	891	855
1049:	825	951	1258	1358	1045	821	854	844
1057:	883	842	884	862	783	852	840	887
1065:	862	845	925	933	1119	1226	975	845
1073:	853	835	862	868	809	854	829	808
1081:	813	814	868	788	817	831	789	828
1089:	793	808	771	785	826	793	840	922
1097:	895	786	785	753	840	876	984	984
1105:	930	859	828	813	866	892	825	801
1113:	807	832	833	841	950	2997	14396	24951
1121:	13644	3303	1113	882	836	843	830	898
1129:	886	892	863	956	1180	1070	845	796
1137:	818	789	792	751	853	791	789	778
1145:	788	793	795	842	856	821	856	872
1153:	1104	2552	3393	2090	1061	817	855	828
1161:	830	776	841	782	758	785	752	808
1169:	780	747	777	801	792	741	728	748
1177:	778	682	756	810	969	986	874	739
1185:	744	750	714	694	738	746	701	677
1193:	734	684	690	671	737	696	705	744
1201:	710	702	681	691	671	940	1347	1194
1209:	809	683	721	694	680	637	685	661
1217:	732	768	766	664	703	728	665	617
1225:	664	678	650	721	692	690	715	709

1233:	653	684	816	2002	6774	9093	4325	1368

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Channel								
1241:	721	695	680	632	668	645	651	684
1249:	648	671	760	860	1139	951	791	714
1257:	669	659	662	666	662	691	661	631
1265:	633	687	653	676	633	686	710	653
1273:	719	669	703	622	621	677	1134	2240
1281:	2433	1379	742	699	658	647	639	619
1289:	614	597	593	605	592	576	645	590
1297:	594	589	575	595	647	680	734	704
1305:	596	619	573	594	594	590	602	616
1313:	591	599	630	698	644	616	582	603
1321:	604	609	600	568	620	618	603	590
1329:	615	637	589	628	620	596	644	654
1337:	648	610	568	578	633	609	586	599
1345:	594	589	559	560	620	576	585	586
1353:	643	585	617	603	613	614	616	621
1361:	607	620	575	595	611	643	597	590
1369:	602	573	580	597	595	618	906	3016
1377:	6160	5001	1952	744	619	606	773	1248
1385:	1646	1181	763	647	578	578	584	580
1393:	644	583	611	531	606	583	773	1506
1401:	2276	1817	892	647	695	1389	3032	3472
1409:	1691	819	669	644	614	614	695	650
1417:	636	629	655	601	593	584	652	646
1425:	689	656	597	598	566	609	542	617
1433:	572	589	614	635	608	592	542	518
1441:	598	597	584	624	624	589	593	570
1449:	633	598	574	613	625	617	603	622
1457:	599	580	613	652	648	617	595	583
1465:	559	582	589	627	651	643	605	620
1473:	596	654	645	614	626	637	669	639
1481:	702	704	633	621	638	593	659	627
1489:	610	643	657	670	629	634	626	665
1497:	635	649	637	659	676	629	695	668
1505:	625	683	1148	2491	3233	1878	895	696
1513:	669	649	637	659	633	661	639	632
1521:	658	640	692	593	644	683	673	620
1529:	655	633	658	643	630	629	652	640
1537:	901	1128	972	683	651	899	1093	845
1545:	601	557	500	530	519	501	502	498
1553:	465	492	505	485	451	465	477	469
1561:	478	508	470	487	467	449	454	466
1569:	458	466	453	453	441	466	439	464
1577:	432	455	417	471	638	1035	1210	842
1585:	570	425	483	428	426	414	427	440
1593:	593	725	623	542	477	621	787	618
1601:	442	455	385	419	412	420	480	430
1609:	406	393	408	361	366	387	411	397
1617:	382	379	357	373	361	337	382	353
1625:	352	346	354	331	319	331	321	324
1633:	337	324	343	310	293	303	319	294
1641:	265	272	332	315	289	292	282	278
1649:	267	280	286	315	259	295	284	310
1657:	327	302	533	1098	1361	857	406	260

1665:	283	279	265	229	250	245	247	237

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Channel								
1673:	238	258	247	222	249	236	248	252
1681:	250	306	436	446	306	241	216	223
1689:	241	248	350	447	480	359	267	231
1697:	204	223	230	218	220	212	209	199
1705:	176	225	214	194	212	200	231	218
1713:	217	231	169	197	200	190	213	182
1721:	203	188	195	225	208	243	680	2186
1729:	3801	2697	1073	347	227	226	238	199
1737:	210	187	203	201	211	205	222	214
1745:	233	186	190	210	222	192	204	213
1753:	206	206	208	200	196	214	222	258
1761:	553	2935	10449	16097	11053	3652	874	319
1769:	240	225	230	235	213	221	212	200
1777:	178	217	211	219	236	235	190	206
1785:	183	214	217	199	193	203	201	220
1793:	196	189	215	182	189	196	209	180
1801:	187	177	182	171	160	174	158	191
1809:	170	197	177	178	194	204	181	171
1817:	193	156	178	184	158	173	175	173
1825:	180	171	199	178	180	171	162	194
1833:	191	179	197	276	373	512	375	207
1841:	173	183	202	271	634	1613	2302	1591
1849:	563	245	202	196	186	170	194	169
1857:	156	187	174	198	181	198	179	202
1865:	169	187	186	169	178	190	244	371
1873:	385	292	209	191	177	201	188	195
1881:	174	198	177	191	189	163	191	201
1889:	285	293	234	201	166	226	264	298
1897:	232	233	222	189	154	173	186	164
1905:	185	153	155	165	173	179	171	169
1913:	161	147	176	177	168	177	176	160
1921:	170	182	168	180	153	171	164	156
1929:	163	179	174	168	186	244	280	266
1937:	274	232	203	183	176	174	174	175
1945:	199	189	161	168	156	183	190	166
1953:	163	177	158	178	189	171	198	189
1961:	149	158	165	154	164	168	149	159
1969:	184	169	168	141	147	156	153	140
1977:	146	146	122	153	147	138	139	128
1985:	136	126	139	137	133	140	114	169
1993:	147	157	142	129	140	113	118	139
2001:	116	135	127	128	134	153	123	124
2009:	156	197	153	130	131	149	157	191
2017:	214	164	127	132	116	94	130	133
2025:	116	121	91	103	99	122	104	125
2033:	109	109	106	105	101	90	85	104
2041:	96	111	105	93	90	76	108	99
2049:	95	105	121	158	151	107	96	99
2057:	98	116	116	87	99	76	76	82
2065:	99	70	82	83	88	75	80	94
2073:	78	84	69	82	86	88	73	59
2081:	84	82	85	86	90	82	92	113
2089:	101	104	84	88	70	56	74	76

2097:	71	76	69	80	72	74	88	72

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Channel								
2105:	64	65	97	84	156	110	94	85
2113:	56	88	122	351	866	1043	692	316
2121:	145	78	76	75	57	64	58	80
2129:	48	69	52	56	59	73	56	65
2137:	57	58	61	50	69	59	56	77
2145:	56	77	67	77	73	60	62	56
2153:	69	64	46	53	62	61	54	51
2161:	61	56	55	49	66	54	57	43
2169:	62	70	53	52	61	67	54	69
2177:	57	49	59	73	61	57	68	50
2185:	54	63	55	64	58	74	91	101
2193:	81	55	69	70	69	66	66	126
2201:	606	1985	3705	3459	1702	516	159	68
2209:	70	71	65	71	74	56	66	59
2217:	61	56	53	59	49	57	57	47
2225:	56	44	42	54	45	57	50	48
2233:	34	47	61	50	50	51	46	43
2241:	48	42	42	45	47	38	37	42
2249:	37	50	52	35	25	38	37	39
2257:	42	43	46	48	60	47	35	43
2265:	47	47	44	44	47	49	35	36
2273:	37	40	36	39	32	35	43	25
2281:	46	32	34	47	41	34	42	43
2289:	37	63	153	248	267	146	77	49
2297:	40	39	35	37	26	27	29	29
2305:	36	39	25	39	32	32	32	43
2313:	37	42	30	29	38	29	27	28
2321:	27	21	23	30	26	26	22	20
2329:	35	42	44	28	26	32	15	16
2337:	26	15	28	33	23	23	22	24
2345:	23	27	22	19	29	30	14	26
2353:	21	16	28	21	22	23	28	21
2361:	20	21	28	18	21	23	14	26
2369:	26	30	14	25	22	22	17	24
2377:	23	30	17	23	17	27	19	15
2385:	25	17	19	11	16	14	15	15
2393:	12	18	20	13	13	11	11	13
2401:	24	15	16	18	14	15	16	29
2409:	17	24	11	15	12	17	19	10
2417:	18	18	15	17	20	27	18	17
2425:	20	10	19	12	17	11	10	13
2433:	17	17	13	15	14	14	18	23
2441:	22	23	23	105	373	819	1070	801
2449:	300	99	40	22	23	17	19	18
2457:	24	14	10	20	13	15	13	18
2465:	16	17	13	10	12	17	14	12
2473:	18	20	22	16	11	13	18	13
2481:	18	14	14	15	12	16	11	8
2489:	15	12	11	17	16	14	18	15
2497:	10	13	16	8	18	14	11	16
2505:	13	15	17	17	6	11	12	9
2513:	13	8	10	8	12	11	12	17
2521:	11	16	10	15	9	9	8	16

2529:	12	10	11	13	10	7	13	11

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Channel								
2537:	11	13	10	8	5	17	9	20
2545:	15	6	16	9	12	7	12	8
2553:	6	8	6	13	5	10	10	11
2561:	6	5	11	8	10	15	12	8
2569:	4	10	8	10	11	5	5	7
2577:	6	5	8	8	9	5	8	4
2585:	10	8	10	11	8	5	4	6
2593:	6	10	5	11	7	6	6	13
2601:	8	7	12	8	5	8	9	4
2609:	9	7	17	35	66	64	47	19
2617:	11	1	9	14	12	12	9	7
2625:	8	8	3	8	13	8	5	4
2633:	3	9	12	8	9	7	5	5
2641:	3	4	10	7	5	6	4	6
2649:	13	7	7	10	6	9	9	9
2657:	6	4	4	7	7	11	10	4
2665:	3	7	7	11	6	6	7	3
2673:	7	8	4	8	4	10	6	5
2681:	5	6	13	7	2	5	4	7
2689:	4	7	12	16	22	31	22	13
2697:	13	8	6	6	6	11	10	5
2705:	9	5	7	3	4	3	7	5
2713:	8	5	3	6	3	10	4	6
2721:	9	5	6	7	7	12	13	13
2729:	5	8	6	7	7	5	7	6
2737:	5	4	5	5	2	5	5	8
2745:	4	7	5	5	0	3	3	7
2753:	5	4	6	6	5	2	4	3
2761:	3	5	4	6	1	5	13	23
2769:	27	10	7	10	2	7	4	5
2777:	7	3	3	6	6	9	9	8
2785:	12	5	4	6	6	4	4	3
2793:	7	5	6	8	2	5	6	3
2801:	7	6	3	5	2	4	5	6
2809:	6	7	6	5	4	4	7	1
2817:	1	7	1	2	6	3	5	4
2825:	4	4	2	3	2	2	4	3
2833:	3	0	4	4	0	2	4	4
2841:	3	4	4	3	2	4	3	4
2849:	6	3	1	4	1	2	0	2
2857:	5	4	4	9	3	0	6	1
2865:	4	5	4	0	4	0	0	1
2873:	3	1	4	3	3	7	9	7
2881:	5	5	2	1	5	6	5	2
2889:	3	5	4	3	7	4	2	4
2897:	4	2	2	3	1	3	1	7
2905:	3	1	0	2	2	4	4	1
2913:	5	2	3	5	5	4	6	7
2921:	5	11	4	3	6	2	6	1
2929:	3	2	0	3	4	5	2	3
2937:	1	3	3	5	3	0	2	2
2945:	1	1	6	5	5	3	2	1
2953:	3	2	3	4	2	3	3	0

2961:	1	3	3	3	4	2	4	1

Sample Title: FEEBRIS1D-7 084-085

Channel								
2969:	3	3	4	2	4	1	3	15
2977:	6	10	9	2	2	0	1	6
2985:	3	0	1	6	4	1	2	0
2993:	4	4	1	5	4	4	6	7
3001:	4	1	2	1	2	0	1	2
3009:	1	2	3	2	2	0	0	3
3017:	2	4	4	3	0	2	3	1
3025:	1	4	3	0	3	0	3	1
3033:	2	5	4	2	4	3	3	4
3041:	0	4	4	4	2	0	4	1
3049:	3	4	6	9	11	6	7	1
3057:	2	2	4	0	1	1	2	1
3065:	0	2	1	0	0	1	2	2
3073:	5	2	4	5	2	4	0	3
3081:	5	3	2	4	2	2	1	1
3089:	0	2	2	0	2	3	1	2
3097:	0	4	3	4	2	1	2	1
3105:	1	0	0	1	1	1	1	0
3113:	1	1	2	1	0	3	2	1
3121:	2	3	2	1	2	3	1	1
3129:	2	3	2	1	0	1	3	2
3137:	2	1	1	2	3	2	2	4
3145:	1	3	0	1	2	2	1	1
3153:	1	0	0	0	0	3	3	1
3161:	1	3	1	2	1	1	1	1
3169:	1	2	0	1	2	1	0	4
3177:	3	1	1	0	2	4	0	0
3185:	1	2	3	1	1	1	0	0
3193:	2	0	2	2	1	1	2	0
3201:	0	1	1	2	2	2	1	1
3209:	0	0	1	2	0	4	0	0
3217:	0	3	3	1	0	1	1	0
3225:	0	0	2	3	0	0	1	0
3233:	0	2	0	1	0	2	0	0
3241:	0	0	0	1	2	3	1	2
3249:	4	2	1	1	0	2	3	3
3257:	1	0	0	0	0	1	2	1
3265:	0	1	1	2	0	0	1	1
3273:	0	1	2	1	1	0	3	3
3281:	2	1	1	1	1	1	0	1
3289:	1	0	2	0	1	0	0	1
3297:	0	1	1	0	0	0	0	1
3305:	0	0	0	0	1	0	0	0
3313:	1	0	0	1	0	1	0	0
3321:	1	1	0	1	3	0	0	1
3329:	1	1	0	0	1	3	0	2
3337:	0	1	1	0	0	0	1	1
3345:	0	2	0	1	0	0	0	1
3353:	0	1	1	1	4	0	1	1
3361:	2	1	1	0	0	0	1	0
3369:	2	0	0	1	1	1	1	0
3377:	0	1	0	1	0	0	0	0
3385:	1	1	0	0	0	0	1	0

3393:	0	1	0	1	1	0	1	0

Sample Title: FEEBRIS1D-7 084-085

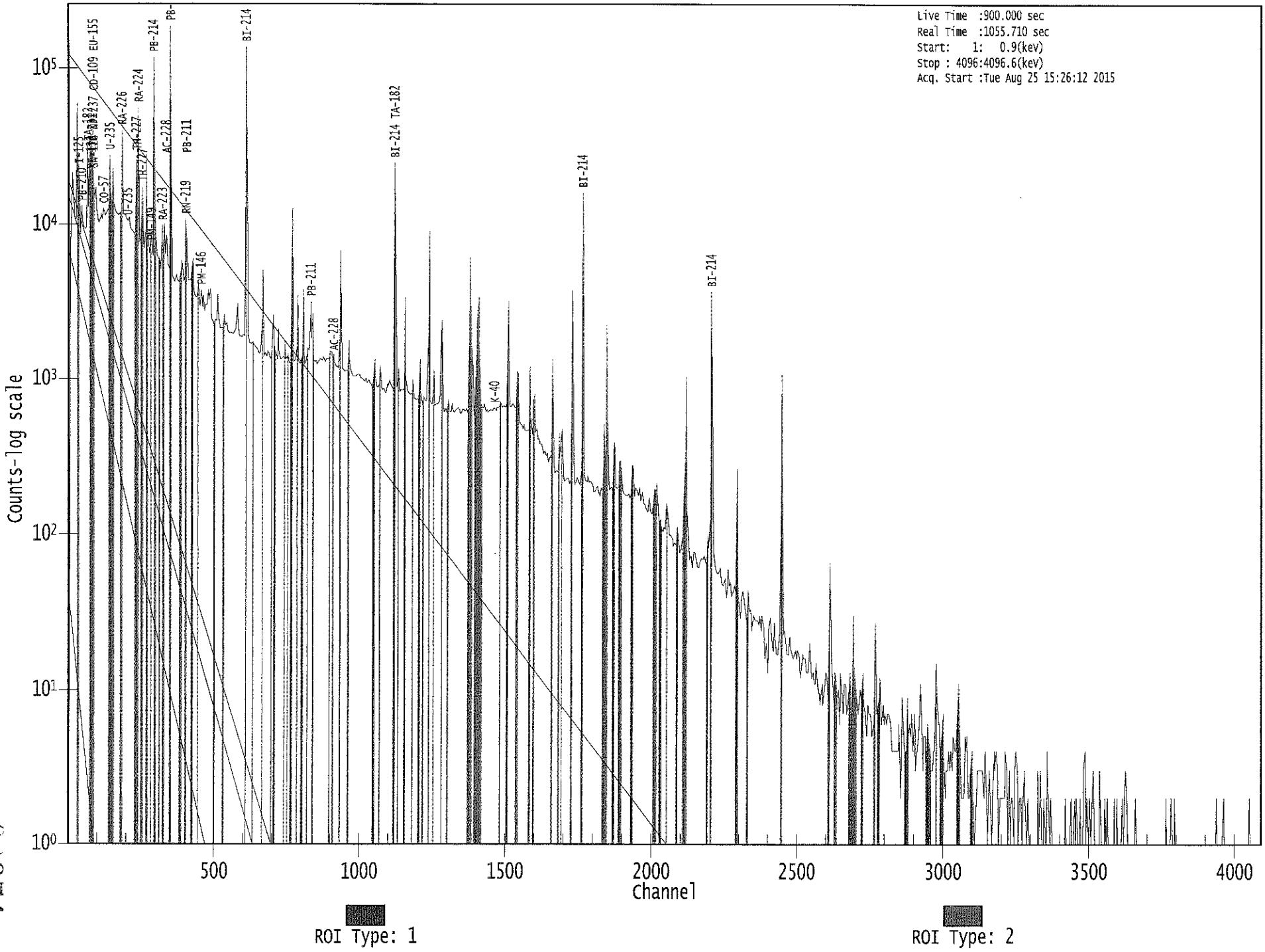
Channel								
3401:	1	0	1	1	0	0	0	0
3409:	0	0	1	0	0	0	0	0
3417:	0	1	2	2	1	1	0	0
3425:	0	1	0	1	0	0	0	1
3433:	0	1	1	0	0	0	0	2
3441:	0	0	0	0	0	1	0	0
3449:	2	1	0	2	0	1	0	0
3457:	1	2	1	1	1	0	1	0
3465:	0	1	0	1	0	0	2	0
3473:	0	0	0	0	1	0	1	1
3481:	0	3	0	0	2	0	4	1
3489:	0	0	1	0	2	1	0	0
3497:	0	1	1	1	0	2	1	0
3505:	1	0	0	1	1	1	2	1
3513:	0	0	3	2	0	0	0	1
3521:	0	0	1	1	0	0	0	0
3529:	0	0	0	0	1	1	0	1
3537:	3	1	0	1	0	0	1	0
3545:	0	1	0	0	0	0	0	0
3553:	1	0	2	0	0	1	1	0
3561:	0	0	0	2	0	0	0	0
3569:	1	0	0	0	0	1	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	2	0	0	0	0
3593:	1	1	0	2	0	0	0	1
3601:	0	1	0	0	0	0	0	0
3609:	1	0	1	0	0	2	0	0
3617:	0	1	1	0	0	2	1	0
3625:	1	3	0	0	1	2	0	0
3633:	0	0	0	0	1	0	0	0
3641:	1	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	2	0	0	0	1	0
3665:	0	0	1	0	0	0	1	0
3673:	0	0	0	0	1	0	1	0
3681:	0	0	0	0	0	1	0	1
3689:	1	0	0	0	0	0	0	1
3697:	1	0	0	0	0	0	0	1
3705:	0	0	0	1	0	1	0	0
3713:	0	0	0	1	0	0	0	0
3721:	0	0	0	0	0	1	0	1
3729:	0	0	1	1	1	1	0	0
3737:	0	0	1	1	0	0	0	0
3745:	0	0	0	1	0	0	0	0
3753:	0	1	0	0	0	0	0	0
3761:	0	0	0	2	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	1	1	0	0	2	1	0	0
3785:	0	1	0	0	0	0	0	0
3793:	2	0	0	0	0	0	0	0
3801:	0	0	1	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-7 084-085

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	1	0	1	0	0	0	0
3857:	0	0	1	0	0	0	1	0
3865:	1	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	1	0	1	0	0	0	0	0
3889:	0	0	0	0	0	0	1	0
3897:	0	0	0	0	0	0	1	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	1	0	1
3937:	2	0	0	0	0	0	0	0
3945:	1	0	0	0	0	0	0	0
3953:	0	0	0	0	0	1	0	0
3961:	0	0	2	0	0	0	0	0
3969:	0	1	0	0	0	0	0	1
3977:	1	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	1	1	0	0
4025:	0	1	0	1	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	2	0	0	0	0
4057:	0	0	0	1	0	1	0	0
4065:	0	0	0	0	0	0	0	1
4073:	0	0	0	0	0	0	0	0
4081:	0	0	1	0	0	0	0	0
4089:	0	1	0	0	0	0	0	0

0000026403.CNF



06724

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

8/25

Last Results Report
8/25/15 6:04:21 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:07 AM
Measurement Date: 8/25/15 5:49:08 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1 [SD: 2.1672E+000+/- 0.362]	2.2233E+000	1.5482E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/25/15 6:04:29 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:17 AM
Measurement Date: 8/25/15 5:49:18 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2 [SD: 4.5681E+000+/- 0.286]	4.2000E+000	-1.2886E+000 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

8/25

Last Results Report
8/25/15 6:04:38 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:25 AM
Measurement Date: 8/25/15 5:49:26 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 902.9 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3	1.9510E+003	-2.2519E-001
[SD: 2.3011E+003+/-1554.8]		< : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/25/15 6:04:46 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004B.QCK

Detector: GE4
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:32 AM
Measurement Date: 8/25/15 5:49:34 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE4	1.6900E+000	-4.5459E-002
[SD: 9.5399E+000+/-172.68]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/25/15 5:38:43 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 5:23:02 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 926.8 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0230E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6171E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8355E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0335E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.8563E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2186E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.4072E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4561E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.0988E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0699E+004	

00679

Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	2.0044E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

8/25

Last Results Report
8/25/15 5:38:53 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 5:23:09 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 929.5 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6154E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3525E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1085E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.2730E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6484E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5439E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Decay corrected activity 6.3368E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.0303E+005	
Boundary Limits: [7.978E-002, 1.197E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1656E+005	
Boundary Limits: [1.714E-001, 2.571E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/25/15 7:02:08 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 6:46:13 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 942.0 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9849E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6158E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.7252E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.0684E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2215E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.4373E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.8128E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	6.5370E+004	

00683

Boundary Limits: [4.969E-002, 7.453E-002] < : : : >

Decay corrected activity 9.8492E+004
Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 2.0187E+005
Boundary Limits: [1.713E-001, 2.569E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

B/2V

Last Results Report
8/25/15 5:39:28 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004GAW-14C.QCK

Detector: GE4
Geometry: <None>
Certificate: GAW-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 5:23:24 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 951.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.8716E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6108E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8361E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	2.2224E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.7046E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.9597E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Y-88	3.1009E+000	
Boundary Limits: [5.000E-001, 3.500E+000]		< : : : >
Decay corrected activity	1.2233E+005	
Boundary Limits: [1.200E-001, 1.816E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	6.4698E+004	

00685

Boundary Limits: [4.918E-002, 7.377E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	9.7633E+004	
Boundary Limits: [7.892E-002, 1.184E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.0886E+005	
Boundary Limits: [1.695E-001, 2.543E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

Appendix G-3:

Test America Analytical Data: Phase 1D Samples

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-12285-1
Client Project/Site: West Lake Landfill
Revision: 1

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
8/7/2015 3:16:55 PM

Erika Gish, Project Manager II
(314)298-8566
erika.gish@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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QC Sample Results 16
QC Association Summary 23

Job ID: 160-12285-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-12285-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Revision 1: The report was revised to report Fluoride from the original run per client requirements. Due to lab error it was not initially reported.

RECEIPT
The sample was received on 6/11/2015 3:10 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.4º C.

TOTAL METALS (ICP)
Sample FEEBR1S1D-09.088-089 (160-12285-1) was analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/17/2015 and analyzed on 06/23/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

METALS (ICPMS)
Sample FEEBR1S1D-09.088-089 (160-12285-1) was analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The

Job ID: 160-12285-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

samples were prepared on 06/18/2015 and analyzed on 06/25/2015 and 06/26/2015.

Antimony, Sodium and Calcium were detected in method blank MB 160-196030/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Analytical Batch 160-197509
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBR1S1D-09.088-089 (160-12285-1) Elevated reporting limits (RLs) are provided.

The MS/MSD was analyzed on a different job within the prep batch. The sample chosen for batch QC had a different analyte list. As a result, the MS/MSD was not analyzed for tantalum: FEEBR1S1D-09.088-089 (160-12285-1). Method performance is demonstrated by acceptable LCS recovery.

Due to the high concentration of aluminum and iron, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-196030 and analytical batch 160-197509 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike and/or matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-196030 and analytical batch 160-197509 were outside control limits for niobium, antimony, and zinc. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-12046-E-1-E MS) and (160-12046-E-1-F MSD)

Due to LRC failures, the linear range for beryllium has been lowered to the concentration of the highest calibration standard (200ppb). The MS/MSD was above the LRC, but was within acceptable limits: (160-12046-E-1-E MS) and (160-12046-E-1-F MSD).

Due to changes in LRC concentrations, the linear range for niobium has been lowered (100ppb). The LCS was above the LRC. The LCS was within acceptable QC limits: (LCS 160-196030/10-A).

Due to changes in LRC concentrations, the linear range for tantalum has been lowered (200ppb). The LCS was above the LRC. The LCS was within acceptable QC limits: (LCS 160-196030/11-A).

The CCVL was outside upper QC limits for sodium. The concentration of this analyte in the sample was either at such a high level as to make the CCVL unnecessary or non detect: (CCVL 160-197509/23).

The CRI/CCVL was outside upper QC limits for aluminum. The concentration of this analyte in the samples were at such a high level as to make the CRI/CCVL unnecessary: (CCVL 160-197509/18), (CCVL 160-197509/23), (CCVL 160-197509/33) and (CRI 160-197509/7).

The internal standard was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias: (CCV 160-197509/34).

Analytical Batch 160-197731
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBR1S1D-09.088-089 (160-12285-1), (160-12046-E-1-E MS), and (160-12046-E-1-F MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Sample FEEBR1S1D-09.088-089 (160-12285-1) was analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 06/12/2015 and analyzed on 06/15/2015.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-195033 and analytical batch 160-195472 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 160-12285-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

ALKALINITY

Sample FEEBR1S1D-09.088-089 (160-12285-1) was analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared on 06/15/2015 and analyzed on 06/17/2015.

The following sample from Alkalinity batch 160-195613 required dilution due to the nature of the sample matrix, as undiluted analysis prevented proper titration down to a final pH of 4.5: FEEBR1S1D-09.088-089 (160-12285-1). This resulted in a final sample result that was lower than the adjusted reporting limit (RL) at dilution.

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 160-195262/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged.

The following matrix spike (MS) in Alkalinity batch 195613 was within acceptance limits for Total Alkalinity, but failed above the 75%-125% recovery limits for Bicarbonate (127%), due to the presence of Carbonate Alkalinity in the parent sample: (160-12305-B-1-C MS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample FEEBR1S1D-09.088-089 (160-12285-1) was analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 06/17/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY

Sample FEEBR1S1D-09.088-089 (160-12285-1) was analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 06/26/2015 and analyzed on 06/26/2015 and 06/30/2015.

The following sample was diluted to bring the concentrations of the target analyte within the calibration range in Anion batch 197590: FEEBR1S1D-09.088-089 (160-12285-1). Elevated reporting limits (RLs) are provided.

The following sample was preceded by an anomalously high CCB for Sulfate that was above the reporting limit (RL) of 0.5 mg/L at 0.638 mg/L: FEEBR1S1D-09.088-089 (160-12285-1). This CCB contamination is due to carryover from the CCV that ran immediately before it. This contamination did not extend past the CCB in question, as the the method blank (MB) that ran immediately after this CCB was non-detect (ND) for Sulfate, and all other QC was within compliance. As the two samples bracketed by this high CCB all had significantly high concentrations of Sulfate, this contamination in the CCB is not believed to have had any significant effect on the sample results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Sample FEEBR1S1D-09.088-089 (160-12285-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 06/12/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Mr. Paul Rosasco
Company: Engineering Management Support, Inc.
Address: 7220 W. Jefferson AVE Suite 406
City: Lakewood
State, Zip: CO, 80235
Phone:
Email: paulrosasco@emsidenver.com
Project Name: West Lake Landfill
Site:

Sampler: Bill Abernathy / Jim Drake
Phone:
Lab PM: Gish, Erika K
E-Mail: erika.gish@testamericainc.com
Carrier Tracking No(s): hand delivered

COC No: 160-2800-1326.4
Page: Page 4 of 4
Job #:

Due Date Requested:
TAT Requested (days): Rush
PO #: Purchase Order not required
WO #:
Project #: 16002280
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9056A_ORGFM_28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
FEEBRISID-09.088-089	6/11/15	0850	G	S			✓	✓	✓	✓	✓	✓	3	Rush TAT

160-12285 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 6/11/15 1510	Company FEI	Received by:	Date/Time: 6.11.15 1510	Company TASTL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Page 6 of 25
8/7/2015

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/7/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gish, Erika K	Carrier Tracking No(s):	COC No: 160-56584.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: erika.gish@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		**Analysis Requested**		Job #: 160-12285-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 6/23/2015			**Preservation Codes:**
City: Phoenix	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) **Other:**
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			
Email:	WO #:			
Project Name: West Lake Landfill	Project #: 16002280			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B (MOD) Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FEEBR1S1D-09.088-089 (160-12285-1)	6/11/15	08:50 Central		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Fed Ex	Date/Time:	Company	Received by:	Date/Time: 6/10/15 9:45	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Yes	Cooler Temperature(s) °C and Other Remarks: 2.3 c

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12285-1

Login Number: 12285
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12285-1

Login Number: 12285
List Number: 2
Creator: Gravlin, Andrea

List Source: TestAmerica Phoenix
List Creation: 06/12/15 09:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12285-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6010B	Metals (ICP)	SW846	TAL PHX
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-12285-1	FEEBR1S1D-09.088-089	Solid	06/11/15 08:50	06/11/15 15:10

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12285-1

Client Sample ID: FEEBR1S1D-09.088-089

Lab Sample ID: 160-12285-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	61	^	5.9	0.59	mg/Kg	1	☼	9056A	Total/NA
Fluoride	3.2		1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Aluminum	3800	^	14	4.7	mg/Kg	5	☼	6020A	Total/NA
Antimony	0.29	J B	1.4	0.18	mg/Kg	5	☼	6020A	Total/NA
Arsenic	3.1		2.8	0.73	mg/Kg	5	☼	6020A	Total/NA
Barium	490		5.6	0.26	mg/Kg	5	☼	6020A	Total/NA
Beryllium	0.26	J B	0.28	0.073	mg/Kg	5	☼	6020A	Total/NA
Cadmium	0.51		0.14	0.045	mg/Kg	5	☼	6020A	Total/NA
Calcium	330000	B	1400	160	mg/Kg	50	☼	6020A	Total/NA
Chromium	11		2.8	1.3	mg/Kg	5	☼	6020A	Total/NA
Cobalt	2.9		0.56	0.12	mg/Kg	5	☼	6020A	Total/NA
Copper	9.3		2.8	0.28	mg/Kg	5	☼	6020A	Total/NA
Iron	7900		14	9.2	mg/Kg	5	☼	6020A	Total/NA
Lead	17		0.84	0.28	mg/Kg	5	☼	6020A	Total/NA
Magnesium	26000		140	11	mg/Kg	5	☼	6020A	Total/NA
Manganese	260		1.4	0.22	mg/Kg	5	☼	6020A	Total/NA
Nickel	10		1.4	0.30	mg/Kg	5	☼	6020A	Total/NA
Potassium	750		28	8.4	mg/Kg	5	☼	6020A	Total/NA
Selenium	1.1	J	1.4	0.44	mg/Kg	5	☼	6020A	Total/NA
Silver	0.22	J	0.56	0.067	mg/Kg	5	☼	6020A	Total/NA
Sodium	2200	^ B	56	19	mg/Kg	5	☼	6020A	Total/NA
Vanadium	10		2.8	2.1	mg/Kg	5	☼	6020A	Total/NA
Zinc	80		14	3.7	mg/Kg	5	☼	6020A	Total/NA
Mercury	0.048		0.036	0.012	mg/Kg	1	☼	7471B	Total/NA
pH	8.83		0.100	0.100	SU	1		9045D	Total/NA
Alkalinity - DL	3100	B	300	32	mg/Kg	5	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3 - DL	2300	B	300	32	mg/Kg	5	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3 - DL	830		300	32	mg/Kg	5	☼	310.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBR1S1D-09.088-089

Lab Sample ID: 160-12285-1
Date Collected: 06/11/15 08:50
Matrix: Solid
Date Received: 06/11/15 15:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.100	0.100	SU		06/17/15 13:00	06/17/15 16:01	1

Client Sample ID: FEEBR1S1D-09.088-089

Lab Sample ID: 160-12285-1
Date Collected: 06/11/15 08:50
Matrix: Solid
Date Received: 06/11/15 15:10
Percent Solids: 84.2

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	61	^	5.9	0.59	mg/Kg	☼	06/26/15 10:46	06/30/15 00:47	1
Fluoride	3.2		1.2	0.12	mg/Kg	☼	06/26/15 10:46	06/30/15 00:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.9	0.55	mg/Kg	☼	06/17/15 16:02	06/23/15 12:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3800	^	14	4.7	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Antimony	0.29	J B	1.4	0.18	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Arsenic	3.1		2.8	0.73	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Barium	490		5.6	0.26	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Beryllium	0.26	J B	0.28	0.073	mg/Kg	☼	06/18/15 09:47	06/26/15 17:54	5
Cadmium	0.51		0.14	0.045	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Calcium	330000	B	1400	160	mg/Kg	☼	06/18/15 09:47	06/26/15 17:58	50
Chromium	11		2.8	1.3	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Cobalt	2.9		0.56	0.12	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Copper	9.3		2.8	0.28	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Iron	7900		14	9.2	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Lead	17		0.84	0.28	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Magnesium	26000		140	11	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Manganese	260		1.4	0.22	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Nickel	10		1.4	0.30	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Niobium	ND		7.0	1.1	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Potassium	750		28	8.4	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Selenium	1.1	J	1.4	0.44	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Silver	0.22	J	0.56	0.067	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Sodium	2200	^ B	56	19	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Thallium	ND		1.4	0.43	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Vanadium	10		2.8	2.1	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Zinc	80		14	3.7	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5
Tantalum	ND		2.8	0.44	mg/Kg	☼	06/18/15 09:47	06/25/15 21:52	5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.036	0.012	mg/Kg	☼	06/12/15 09:58	06/15/15 14:04	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3100	B	300	32	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	5
Bicarbonate Alkalinity as CaCO3	2300	B	300	32	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	5

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12285-1

Client Sample ID: FEEBR1S1D-09.088-089
Date Collected: 06/11/15 08:50
Date Received: 06/11/15 15:10

Lab Sample ID: 160-12285-1
Matrix: Solid
Percent Solids: 84.2

General Chemistry - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	830		300	32	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	5

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-197547/1-A
Matrix: Solid
Analysis Batch: 197820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 197547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.50	mg/Kg		06/26/15 10:46	06/30/15 00:19	1
Fluoride	ND		1.0	0.10	mg/Kg		06/26/15 10:46	06/30/15 00:19	1

Lab Sample ID: LCS 160-197547/2-A
Matrix: Solid
Analysis Batch: 197820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 197547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	79.8	77.0		mg/Kg		96	80 - 120
Fluoride	9.98	10.0		mg/Kg		101	80 - 120

Lab Sample ID: 160-12285-1 MS
Matrix: Solid
Analysis Batch: 197820

Client Sample ID: FEEBR1S1D-09.088-089
Prep Type: Total/NA
Prep Batch: 197547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	61	^	47.3	105		mg/Kg	☼	93	75 - 121
Fluoride	3.2		23.7	25.7		mg/Kg	☼	95	80 - 123

Lab Sample ID: 160-12285-1 DU
Matrix: Solid
Analysis Batch: 197820

Client Sample ID: FEEBR1S1D-09.088-089
Prep Type: Total/NA
Prep Batch: 197547

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	61	^	60.5		mg/Kg	☼	0.7	30
Fluoride	3.2		3.62		mg/Kg	☼	13	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-66077/1-A
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.0	0.46	mg/Kg		06/17/15 16:02	06/23/15 10:56	1

Lab Sample ID: LCS 550-66077/2-A
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	49.6	42.7		mg/Kg		86	80 - 120

Lab Sample ID: LCSD 550-66077/3-A
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66077

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	48.9	42.0		mg/Kg		86	80 - 120	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 550-46411-A-3-H MS
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	0.75	J	57.6	49.8		mg/Kg	☼	85	75 - 125

Lab Sample ID: 550-46411-A-3-I MSD
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 66077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	0.75	J	57.7	49.0		mg/Kg	☼	83	75 - 125	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-196030/1-A
Matrix: Solid
Analysis Batch: 197509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	^	4.5	1.5	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Antimony	0.0865	J	0.45	0.058	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Arsenic	ND		0.90	0.23	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Barium	ND		1.8	0.085	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Beryllium	ND		0.090	0.023	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Cadmium	ND		0.045	0.014	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Chromium	ND		0.90	0.40	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Cobalt	ND		0.18	0.039	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Copper	ND		0.90	0.091	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Iron	ND		4.5	3.0	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Lead	ND		0.27	0.090	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Magnesium	ND		45	3.4	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Manganese	ND		0.45	0.069	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Nickel	ND		0.45	0.096	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Niobium	ND		2.2	0.34	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Potassium	ND		9.0	2.7	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Selenium	ND		0.45	0.14	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Silver	ND		0.18	0.022	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Sodium	7.39	J ^	18	6.0	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Thallium	ND		0.45	0.14	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Vanadium	ND		0.90	0.66	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Zinc	ND		4.5	1.2	mg/Kg		06/18/15 09:47	06/25/15 20:38	2
Tantalum	ND		0.90	0.14	mg/Kg		06/18/15 09:47	06/25/15 20:38	2

Lab Sample ID: MB 160-196030/1-A
Matrix: Solid
Analysis Batch: 197731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	11.2	J	45	5.2	mg/Kg		06/18/15 09:47	06/26/15 17:28	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-196030/10-A
Matrix: Solid
Analysis Batch: 197509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	48.6	48.0	E	mg/Kg		99	80 - 120

Lab Sample ID: LCS 160-196030/11-A
Matrix: Solid
Analysis Batch: 197509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	182	170		mg/Kg		93	75 - 125

Lab Sample ID: LCSSRM 160-196030/2-A
Matrix: Solid
Analysis Batch: 197509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	7080	^	mg/Kg		87.8	39.5 - 160.0
Antimony	94.0	56.3		mg/Kg		59.9	22.8 - 257.4
Arsenic	113	116		mg/Kg		102.3	69.7 - 142.5
Barium	155	165		mg/Kg		106.2	72.9 - 127.1
Beryllium	109	111		mg/Kg		102.2	74.7 - 124.8
Cadmium	67.5	69.5		mg/Kg		102.9	73.2 - 126.8
Chromium	164	177		mg/Kg		107.7	70.7 - 129.9
Cobalt	100	115		mg/Kg		115.1	74.4 - 126.0
Copper	128	138		mg/Kg		107.4	75.2 - 125.8
Iron	15200	13400		mg/Kg		88.3	37.4 - 162.5
Lead	90.1	90.4		mg/Kg		100.4	70.1 - 129.9
Magnesium	2790	2790		mg/Kg		100.2	65.2 - 135.1
Manganese	363	425		mg/Kg		117.2	75.8 - 124.5
Nickel	89.3	101		mg/Kg		113.0	72.0 - 127.7
Potassium	2770	2760		mg/Kg		99.5	61.7 - 138.3
Selenium	156	168		mg/Kg		107.6	67.3 - 132.1
Silver	52.6	51.9		mg/Kg		98.6	66.7 - 133.5
Sodium	686	726	^	mg/Kg		105.9	55.8 - 144.2
Thallium	116	118		mg/Kg		101.7	67.4 - 131.9

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-196030/2-A
Matrix: Solid
Analysis Batch: 197509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	73.0	72.6		mg/Kg		99.5	59.7 - 139.7
Zinc	168	175		mg/Kg		104.5	69.0 - 131.5

Lab Sample ID: LCSSRM 160-196030/2-A
Matrix: Solid
Analysis Batch: 197731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5850	5800		mg/Kg		99.2	73.7 - 126.5

Lab Sample ID: 160-12046-E-1-E MS
Matrix: Solid
Analysis Batch: 197509

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	11000	^	1070	31200	4 ^	mg/Kg	☼	1867	75 - 125
Antimony	0.30	J B F1	53.3	17.7	F1	mg/Kg	☼	33	75 - 125
Arsenic	5.0		107	111		mg/Kg	☼	99	75 - 125
Barium	13		107	135		mg/Kg	☼	115	75 - 125
Beryllium	0.21	J	107	119	E	mg/Kg	☼	112	75 - 125
Cadmium	0.079	J	107	106		mg/Kg	☼	100	75 - 125
Chromium	27		107	135		mg/Kg	☼	101	75 - 125
Cobalt	0.93		107	111		mg/Kg	☼	103	75 - 125
Copper	4.9		107	119		mg/Kg	☼	107	75 - 125
Iron	23000		1070	25700	4	mg/Kg	☼	209	75 - 125
Lead	6.5		107	114		mg/Kg	☼	101	75 - 125
Magnesium	220		1070	1490		mg/Kg	☼	119	75 - 125
Manganese	100		107	215		mg/Kg	☼	107	75 - 125
Nickel	3.1		107	120		mg/Kg	☼	109	75 - 125
Niobium	ND	F1	53.3	23.6	F1	mg/Kg	☼	44	75 - 125
Potassium	160		1070	1320		mg/Kg	☼	109	75 - 125
Selenium	0.59	J	53.3	49.8		mg/Kg	☼	92	75 - 125
Silver	ND		21.3	20.1		mg/Kg	☼	94	75 - 125
Sodium	ND	^	1070	1050	^	mg/Kg	☼	98	75 - 125
Thallium	ND		21.3	21.2		mg/Kg	☼	99	75 - 125
Vanadium	54		107	165		mg/Kg	☼	104	75 - 125
Zinc	130	F1	107	259		mg/Kg	☼	122	75 - 125

Lab Sample ID: 160-12046-E-1-E MS
Matrix: Solid
Analysis Batch: 197731

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	700	B	1070	1720		mg/Kg	☼	96	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-12046-E-1-F MSD
Matrix: Solid
Analysis Batch: 197509

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	11000	^	1110	33300	4 ^	mg/Kg	☼	1981	75 - 125	7	30
Antimony	0.30	J B F1	55.6	18.1	F1	mg/Kg	☼	32	75 - 125	2	30
Arsenic	5.0		111	116		mg/Kg	☼	100	75 - 125	5	30
Barium	13		111	141		mg/Kg	☼	115	75 - 125	4	30
Beryllium	0.21	J	111	126	E	mg/Kg	☼	113	75 - 125	6	30
Cadmium	0.079	J	111	111		mg/Kg	☼	99	75 - 125	4	30
Chromium	27		111	142		mg/Kg	☼	104	75 - 125	5	30
Cobalt	0.93		111	115		mg/Kg	☼	103	75 - 125	4	30
Copper	4.9		111	125		mg/Kg	☼	108	75 - 125	5	30
Iron	23000		1110	27100	4	mg/Kg	☼	327	75 - 125	5	30
Lead	6.5		111	119		mg/Kg	☼	101	75 - 125	4	30
Magnesium	220		1110	1570		mg/Kg	☼	121	75 - 125	5	30
Manganese	100		111	228		mg/Kg	☼	115	75 - 125	6	30
Nickel	3.1		111	125		mg/Kg	☼	110	75 - 125	4	30
Niobium	ND	F1	55.6	20.9	F1	mg/Kg	☼	38	75 - 125	12	30
Potassium	160		1110	1400		mg/Kg	☼	112	75 - 125	6	30
Selenium	0.59	J	55.6	53.9		mg/Kg	☼	96	75 - 125	8	30
Silver	ND		22.2	21.3		mg/Kg	☼	96	75 - 125	6	30
Sodium	ND	^	1110	1100	^	mg/Kg	☼	99	75 - 125	5	30
Thallium	ND		22.2	21.7		mg/Kg	☼	98	75 - 125	2	30
Vanadium	54		111	174		mg/Kg	☼	108	75 - 125	5	30
Zinc	130	F1	111	291	F1	mg/Kg	☼	146	75 - 125	12	30

Lab Sample ID: 160-12046-E-1-F MSD
Matrix: Solid
Analysis Batch: 197731

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 196030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	700	B	1110	1820		mg/Kg	☼	101	75 - 125	6	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-195033/1-A
Matrix: Solid
Analysis Batch: 195472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.031	0.010	mg/Kg		06/12/15 09:58	06/15/15 13:47	1

Lab Sample ID: LCSSRM 160-195033/2-A
Matrix: Solid
Analysis Batch: 195472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195033

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.76	5.25		mg/Kg		91.1	51.0 - 148.8

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 160-12261-A-2-C MS
Matrix: Solid
Analysis Batch: 195472

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 195033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.017	J F1	0.973	0.290	F1	mg/Kg	☼	28	80 - 120

Lab Sample ID: 160-12261-A-2-D MSD
Matrix: Solid
Analysis Batch: 195472

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 195033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.017	J F1	1.09	0.270	F1	mg/Kg	☼	23	80 - 120	7	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-195262/1-A
Matrix: Solid
Analysis Batch: 195613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	9.99	J	50	5.4	mg/Kg		06/15/15 12:16	06/17/15 12:01	1
Bicarbonate Alkalinity as CaCO3	9.99	J	50	5.4	mg/Kg		06/15/15 12:16	06/17/15 12:01	1
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		06/15/15 12:16	06/17/15 12:01	1

Lab Sample ID: LCS 160-195262/2-A
Matrix: Solid
Analysis Batch: 195613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	2000	1960		mg/Kg		98	90 - 110
Bicarbonate Alkalinity as CaCO3	2000	1960		mg/Kg		98	90 - 110

Lab Sample ID: 160-12305-B-1-C MS
Matrix: Solid
Analysis Batch: 195613

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 195262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	1100	B	1130	2430		mg/Kg	☼	119	75 - 125
Bicarbonate Alkalinity as CaCO3	810	F1 B	1130	2250	F1	mg/Kg	☼	127	75 - 125

Lab Sample ID: 160-12305-B-1-B DU
Matrix: Solid
Analysis Batch: 195613

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 195262

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	1100	B	1040		mg/Kg	☼	4	30
Bicarbonate Alkalinity as CaCO3	810	F1 B	767		mg/Kg	☼	5	30
Carbonate Alkalinity as CaCO3	270		271		mg/Kg	☼	0.8	30

Method: 9045D - pH

Lab Sample ID: 160-12304-E-3-B DU
Matrix: Solid
Analysis Batch: 195814

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 195786

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.54			7.525		SU				0.2	5

Lab Sample ID: LCS 160-195814/5
Matrix: Solid
Analysis Batch: 195814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	6.990		SU		100	99.0 - 101.0		

HPLC/IC

Prep Batch: 197547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	DILeach_Prep	
160-12285-1 DU	FEEBR1S1D-09.088-089	Total/NA	Solid	DILeach_Prep	
160-12285-1 MS	FEEBR1S1D-09.088-089	Total/NA	Solid	DILeach_Prep	
LCS 160-197547/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-197547/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 197820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	9056A	197547
160-12285-1 DU	FEEBR1S1D-09.088-089	Total/NA	Solid	9056A	197547
160-12285-1 MS	FEEBR1S1D-09.088-089	Total/NA	Solid	9056A	197547
LCS 160-197547/2-A	Lab Control Sample	Total/NA	Solid	9056A	197547
MB 160-197547/1-A	Method Blank	Total/NA	Solid	9056A	197547

Metals

Prep Batch: 66077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	3050B	
550-46411-A-3-H MS	Matrix Spike	Total/NA	Solid	3050B	
550-46411-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
LCS 550-66077/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-66077/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 550-66077/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 66424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	6010B	66077
550-46411-A-3-H MS	Matrix Spike	Total/NA	Solid	6010B	66077
550-46411-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	66077
LCS 550-66077/2-A	Lab Control Sample	Total/NA	Solid	6010B	66077
LCSD 550-66077/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	66077
MB 550-66077/1-A	Method Blank	Total/NA	Solid	6010B	66077

Prep Batch: 195033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12261-A-2-C MS	Matrix Spike	Total/NA	Solid	7471B	
160-12261-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	7471B	
LCSSRM 160-195033/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-195033/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 195472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12261-A-2-C MS	Matrix Spike	Total/NA	Solid	7471B	195033
160-12261-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	195033
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	7471B	195033
LCSSRM 160-195033/2-A	Lab Control Sample	Total/NA	Solid	7471B	195033
MB 160-195033/1-A	Method Blank	Total/NA	Solid	7471B	195033

Metals (Continued)

Prep Batch: 196030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12046-E-1-E MS	Matrix Spike	Total/NA	Solid	3050B	
160-12046-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	3050B	
LCS 160-196030/10-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 160-196030/11-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-196030/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-196030/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 197509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12046-E-1-E MS	Matrix Spike	Total/NA	Solid	6020A	196030
160-12046-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	196030
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	6020A	196030
LCS 160-196030/10-A	Lab Control Sample	Total/NA	Solid	6020A	196030
LCS 160-196030/11-A	Lab Control Sample	Total/NA	Solid	6020A	196030
LCSSRM 160-196030/2-A	Lab Control Sample	Total/NA	Solid	6020A	196030
MB 160-196030/1-A	Method Blank	Total/NA	Solid	6020A	196030

Analysis Batch: 197731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12046-E-1-E MS	Matrix Spike	Total/NA	Solid	6020A	196030
160-12046-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	196030
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	6020A	196030
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	6020A	196030
LCSSRM 160-196030/2-A	Lab Control Sample	Total/NA	Solid	6020A	196030
MB 160-196030/1-A	Method Blank	Total/NA	Solid	6020A	196030

General Chemistry

Analysis Batch: 194999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12266-A-1 DU	Duplicate	Total/NA	Solid	Moisture	
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	Moisture	

Prep Batch: 195262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1 - DL	FEEBR1S1D-09.088-089	Total/NA	Solid	DILeach_Prep	
160-12305-B-1-B DU	Duplicate	Total/NA	Solid	DILeach_Prep	
160-12305-B-1-C MS	Matrix Spike	Total/NA	Solid	DILeach_Prep	
LCS 160-195262/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-195262/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 195613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1 - DL	FEEBR1S1D-09.088-089	Total/NA	Solid	310.1	195262
160-12305-B-1-B DU	Duplicate	Total/NA	Solid	310.1	195262
160-12305-B-1-C MS	Matrix Spike	Total/NA	Solid	310.1	195262
LCS 160-195262/2-A	Lab Control Sample	Total/NA	Solid	310.1	195262
MB 160-195262/1-A	Method Blank	Total/NA	Solid	310.1	195262

General Chemistry (Continued)

Prep Batch: 195786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	DILeach_Prep	
160-12304-E-3-B DU	Duplicate	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 195814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12285-1	FEEBR1S1D-09.088-089	Total/NA	Solid	9045D	195786
160-12304-E-3-B DU	Duplicate	Total/NA	Solid	9045D	195786
LCS 160-195814/5	Lab Control Sample	Total/NA	Solid	9045D	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-12305-1
Client Project/Site: West Lake Landfill
Revision: 1

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
8/7/2015 3:13:15 PM

Erika Gish, Project Manager II
(314)298-8566
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-12305-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-12305-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Revision 1: The report was revised to report Fluoride from the original run per client requirements. Due to lab error it was not initially reported.

RECEIPT

The samples were received on 6/12/2015 4:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.5º C.

TOTAL METALS (ICP)

Samples FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/17/2015 and analyzed on 06/23/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

METALS (ICPMS)

Job ID: 160-12305-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Samples FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 06/19/2015 and 07/01/2015 and analyzed on 06/30/2015, 07/01/2015 and 07/02/2015.

Analytical Batch 198205
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3), FEEBRIS1D-14.054-056 (160-12305-4), (160-12305-A-1-G MS), (160-12305-A-1-H MSD) and (160-12305-A-1-F SD). Elevated reporting limits (RLs) are provided.

Due to changes in LRC concentrations, the linear range for niobium has been lowered (100ppb). The LCS was above the LRC. The LCS was within acceptable QC limits.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-196266 and analytical batch 160-198205 were outside control limits for niobium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Analytical Batch 198258
The following samples was diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3), FEEBRIS1D-14.054-056 (160-12305-4), (160-12305-A-1-G MS), (160-12305-A-1-H MSD) and (160-12305-A-1-F SD). Elevated reporting limits (RLs) are provided.

Aluminum and Sodium were detected in method blank MB 160-196266/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-196266 and analytical batch 160-198258 were outside control limits Aluminum and Potassium. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Due to the high concentration of Magnesium, Manganese, Calcium and Iron, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-196266 and analytical batch 160-198258 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Analytical Batch 198622
Samples were re-extracted due to the MS/MSD not being spiked for Ta in the original batch.

The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3), FEEBRIS1D-14.054-056 (160-12305-4), (160-12305-A-1-K MS), (160-12305-A-1-L MSD) and (160-12305-A-1-J SD). Elevated reporting limits (RLs) are provided.

Due to changes in LRC concentrations, the linear range for tantalum has been lowered (200ppb). The LCS was above the LRC. The LCS was within acceptable QC limits.

The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 160-198239 and analytical batch 160-198622 exceeded control limits for the following analyte: tantalum. Note that this analyte is a known poor performer when analyzed using this method. The RPD was within acceptable limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 06/15/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 160-12305-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

ALKALINITY

Samples FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4) were analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared on 06/15/2015 and analyzed on 06/17/2015.

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 160-195262/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged.

The following matrix spike (MS) in Alkalinity batch 195613 was within acceptance limits for Total Alkalinity, but failed above the 75%-125% recovery limits for Bicarbonate (127%), due to the presence of Carbonate Alkalinity in the parent sample: (160-12305-B-1-C MS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Samples FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4) were analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 06/17/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY

Samples FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4) were analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 06/26/2015 and analyzed on 06/26/2015 and 06/30/2015.

The following samples were diluted to bring the concentrations of the target analyte within the calibration range: FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4). Elevated reporting limits (RLs) are provided.

The following sample in Anion batch 197820 were preceded by an anomalously high CCB for Sulfate that was above the reporting limit (RL) of 0.5 mg/L at 0.638 mg/L: FEEBRIS1D-13.093-094 (160-12305-1). This CCB contamination is due to carryover from the CCV that ran immediately before it. This contamination did not extend past this CCB in question, as the the method blank (MB) that ran immediately after this CCB was non-detect (ND) for Sulfate, and all other QC was within compliance. As the two samples bracketed by this high CCB all had significantly high concentrations of Sulfate, this contamination in the CCB is not believed to have had any significant effect on the sample results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples FEEBRIS1D-13.093-094 (160-12305-1), FEEBRIS1D-13.085-086 (160-12305-2), FEEBRIS1D-14.082-084 (160-12305-3) and FEEBRIS1D-14.054-056 (160-12305-4) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 06/16/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Earth City, MO 63045
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Bill Abernathy / Alex Luna	Lab PM: Gish, Erika K	Carrier Tracking No(s): hand delivered	COC No: 160-2800-1326.2
Client Contact: Mr. Paul Rosasco	Phone:	E-Mail: erika.gish@testamericainc.com		Page: Page 2 of 4
Company: Engineering Management Support, Inc.				Job #:
Address: 7220 W. Jefferson AVE Suite 406	Due Date Requested:			
City: Lakewood	TAT Requested (days):			
State, Zip: CO, 80235				
Phone:	PO #: Purchase Order not required			
Email: paulrosasco@emsidenver.com	WO #:			
Project Name: West Lake Landfill	Project #: 16002280			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9056A_ORGFM_28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N		
FEEBRIS1D-13.093-094	6/12/15	1415	G	S			✓	✓	✓	✓	✓	✓	3	
FEEBRIS1D-13.085-086	6/12/15	1432	G	S			✓	✓	✓	✓	✓	✓	3	
FEEBRIS1D-13.082-084	6/12/15	1451	G	S			✓	✓	✓	✓	✓	✓	3	
FEEBRIS1D-14.054-056	6/12/15	1458	G	S			✓	✓	✓	✓	✓	✓	3	

160-12305 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/12/15 1625	Company FEI	Received by:		Date/Time: 6/12/15 1625	Company TA	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

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8/7/2015

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

160 -12305

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/7/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gish, Erika K	Carrier Tracking No(s):	COC No: 160-56683.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: erika.gish@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 160-12305-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 6/24/2015			Preservation Codes:
City: Phoenix	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify)
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: West Lake Landfill	Project #: 16002280			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	6010B/3050B (MOD) Scandium	Special Instructions/Note:
FEEBRIS1D-13.093-094 (160-12305-1)	6/12/15	14:15 Central		Solid	X	
FEEBRIS1D-13.085-086 (160-12305-2)	6/12/15	14:32 Central		Solid	X	
FEEBRIS1D-14.082-084 (160-12305-3)	6/12/15	14:51 Central		Solid	X	
FEEBRIS1D-14.054-056 (160-12305-4)	6/12/15	14:58 Central		Solid	X	

160-12305 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6.12.15 1700	TASL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/13/15 0918	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7°C

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12305-1

Login Number: 12305
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12305-1

Login Number: 12305
List Number: 2
Creator: Doerr, Bret C

List Source: TestAmerica Phoenix
List Creation: 06/13/15 09:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12305-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6010B	Metals (ICP)	SW846	TAL PHX
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12305-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-12305-1	FEEBRIS1D-13.093-094	Solid	06/12/15 14:15	06/12/15 16:25
160-12305-2	FEEBRIS1D-13.085-086	Solid	06/12/15 14:32	06/12/15 16:25
160-12305-3	FEEBRIS1D-14.082-084	Solid	06/12/15 14:51	06/12/15 16:25
160-12305-4	FEEBRIS1D-14.054-056	Solid	06/12/15 14:58	06/12/15 16:25

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12305-1

Client Sample ID: FEEBRIS1D-13.093-094 — Lab Sample ID: 160-12305-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	90	^	5.6	0.56	mg/Kg	1	☼	9056A	Total/NA
Fluoride	2.9		1.1	0.11	mg/Kg	1	☼	9056A	Total/NA
Scandium	0.74	J	5.6	0.52	mg/Kg	1	☼	6010B	Total/NA
Aluminum	3100	B F1	53	18	mg/Kg	20	☼	6020A	Total/NA
Arsenic	8.0	J	11	2.8	mg/Kg	20	☼	6020A	Total/NA
Barium	74		21	1.0	mg/Kg	20	☼	6020A	Total/NA
Cadmium	0.49	J	0.53	0.17	mg/Kg	20	☼	6020A	Total/NA
Calcium	180000		530	62	mg/Kg	20	☼	6020A	Total/NA
Chromium	17		11	4.8	mg/Kg	20	☼	6020A	Total/NA
Cobalt	3.8		2.1	0.46	mg/Kg	20	☼	6020A	Total/NA
Copper	11		11	1.1	mg/Kg	20	☼	6020A	Total/NA
Iron	20000		53	35	mg/Kg	20	☼	6020A	Total/NA
Lead	6.8		3.2	1.1	mg/Kg	20	☼	6020A	Total/NA
Magnesium	71000		530	40	mg/Kg	20	☼	6020A	Total/NA
Manganese	440		5.3	0.82	mg/Kg	20	☼	6020A	Total/NA
Nickel	20		5.3	1.1	mg/Kg	20	☼	6020A	Total/NA
Potassium	720	F1	110	32	mg/Kg	20	☼	6020A	Total/NA
Sodium	940	B	210	71	mg/Kg	20	☼	6020A	Total/NA
Vanadium	34		11	7.8	mg/Kg	20	☼	6020A	Total/NA
Zinc	230		53	14	mg/Kg	20	☼	6020A	Total/NA
Alkalinity	1100	B	57	6.2	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	810	F1 B	57	6.2	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	270		57	6.2	mg/Kg	1	☼	310.1	Total/NA
pH	8.41		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-13.085-086 — Lab Sample ID: 160-12305-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	55		5.8	0.58	mg/Kg	1	☼	9056A	Total/NA
Fluoride	2.7		1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Scandium	1.9	J	5.7	0.53	mg/Kg	1	☼	6010B	Total/NA
Aluminum	14000	B	26	8.6	mg/Kg	10	☼	6020A	Total/NA
Arsenic	6.2		5.1	1.3	mg/Kg	10	☼	6020A	Total/NA
Barium	250		10	0.48	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.69		0.51	0.13	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.32		0.26	0.082	mg/Kg	10	☼	6020A	Total/NA
Calcium	11000		260	30	mg/Kg	10	☼	6020A	Total/NA
Chromium	18		5.1	2.3	mg/Kg	10	☼	6020A	Total/NA
Cobalt	10		1.0	0.22	mg/Kg	10	☼	6020A	Total/NA
Copper	18		5.1	0.52	mg/Kg	10	☼	6020A	Total/NA
Iron	21000		26	17	mg/Kg	10	☼	6020A	Total/NA
Lead	13		1.5	0.51	mg/Kg	10	☼	6020A	Total/NA
Magnesium	6700		260	19	mg/Kg	10	☼	6020A	Total/NA
Manganese	300		2.6	0.40	mg/Kg	10	☼	6020A	Total/NA
Nickel	28		2.6	0.55	mg/Kg	10	☼	6020A	Total/NA
Potassium	1600		51	15	mg/Kg	10	☼	6020A	Total/NA
Selenium	4.0		2.6	0.81	mg/Kg	10	☼	6020A	Total/NA
Silver	0.13	J	1.0	0.12	mg/Kg	10	☼	6020A	Total/NA
Sodium	440	B	100	34	mg/Kg	10	☼	6020A	Total/NA
Vanadium	34		5.1	3.8	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-13.085-086 (Continued) — Lab Sample ID: 160-12305-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	74		26	6.8	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.014	J	0.036	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1000	B	58	6.3	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	980	B	58	6.3	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	47	J	58	6.3	mg/Kg	1	☼	310.1	Total/NA
pH	7.71		0.100	0.100	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-14.082-084 — Lab Sample ID: 160-12305-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.8		1.1	0.11	mg/Kg	1	☼	9056A	Total/NA
Sulfate - DL	360		110	11	mg/Kg	20	☼	9056A	Total/NA
Scandium	2.2	J	5.4	0.50	mg/Kg	1	☼	6010B	Total/NA
Aluminum	8200	B	25	8.4	mg/Kg	10	☼	6020A	Total/NA
Arsenic	9.5		5.0	1.3	mg/Kg	10	☼	6020A	Total/NA
Barium	210		10	0.47	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.55		0.50	0.13	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.37		0.25	0.080	mg/Kg	10	☼	6020A	Total/NA
Calcium	26000		250	29	mg/Kg	10	☼	6020A	Total/NA
Chromium	16		5.0	2.3	mg/Kg	10	☼	6020A	Total/NA
Cobalt	13		1.0	0.22	mg/Kg	10	☼	6020A	Total/NA
Copper	17		5.0	0.51	mg/Kg	10	☼	6020A	Total/NA
Iron	16000		25	17	mg/Kg	10	☼	6020A	Total/NA
Lead	11		1.5	0.50	mg/Kg	10	☼	6020A	Total/NA
Magnesium	13000		250	19	mg/Kg	10	☼	6020A	Total/NA
Manganese	850		2.5	0.39	mg/Kg	10	☼	6020A	Total/NA
Nickel	29		2.5	0.54	mg/Kg	10	☼	6020A	Total/NA
Potassium	1500		50	15	mg/Kg	10	☼	6020A	Total/NA
Selenium	4.8		2.5	0.79	mg/Kg	10	☼	6020A	Total/NA
Sodium	460	B	100	33	mg/Kg	10	☼	6020A	Total/NA
Vanadium	28		5.0	3.7	mg/Kg	10	☼	6020A	Total/NA
Zinc	65		25	6.7	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.024	J	0.036	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1800	B	55	6.0	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1500	B	55	6.0	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	270		55	6.0	mg/Kg	1	☼	310.1	Total/NA
pH	7.92		0.0997	0.0997	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-14.054-056 — Lab Sample ID: 160-12305-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	73		6.1	0.61	mg/Kg	1	☼	9056A	Total/NA
Fluoride	4.9		1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Scandium	2.7	J	6.0	0.56	mg/Kg	1	☼	6010B	Total/NA
Aluminum	16000	B	30	9.9	mg/Kg	10	☼	6020A	Total/NA
Arsenic	10		5.9	1.5	mg/Kg	10	☼	6020A	Total/NA
Barium	240		12	0.56	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.78		0.59	0.15	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.47		0.30	0.095	mg/Kg	10	☼	6020A	Total/NA
Calcium	4500		300	34	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12305-1

Client Sample ID: FEEBRIS1D-14.054-056 (Continued)

Lab Sample ID: 160-12305-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	30		5.9	2.7	mg/Kg	10	☼	6020A	Total/NA
Cobalt	13		1.2	0.25	mg/Kg	10	☼	6020A	Total/NA
Copper	35		5.9	0.60	mg/Kg	10	☼	6020A	Total/NA
Iron	28000		30	19	mg/Kg	10	☼	6020A	Total/NA
Lead	16		1.8	0.59	mg/Kg	10	☼	6020A	Total/NA
Magnesium	5100		300	22	mg/Kg	10	☼	6020A	Total/NA
Manganese	430		3.0	0.45	mg/Kg	10	☼	6020A	Total/NA
Nickel	78		3.0	0.63	mg/Kg	10	☼	6020A	Total/NA
Potassium	1900		59	18	mg/Kg	10	☼	6020A	Total/NA
Selenium	4.7		3.0	0.93	mg/Kg	10	☼	6020A	Total/NA
Sodium	970	B	120	39	mg/Kg	10	☼	6020A	Total/NA
Vanadium	42		5.9	4.3	mg/Kg	10	☼	6020A	Total/NA
Zinc	86		30	7.9	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.046		0.035	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2000	B	61	6.6	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1300	B	61	6.6	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	680		61	6.6	mg/Kg	1	☼	310.1	Total/NA
pH	8.48		0.0999	0.0999	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-13.093-094

Lab Sample ID: 160-12305-1
Date Collected: 06/12/15 14:15
Matrix: Solid
Date Received: 06/12/15 16:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		0.0999	0.0999	SU		06/17/15 13:00	06/17/15 16:01	1

Client Sample ID: FEEBRIS1D-13.093-094

Lab Sample ID: 160-12305-1
Date Collected: 06/12/15 14:15
Matrix: Solid
Date Received: 06/12/15 16:25
Percent Solids: 88.0

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	90	^	5.6	0.56	mg/Kg	☼	06/26/15 10:46	06/30/15 02:10	1
Fluoride	2.9		1.1	0.11	mg/Kg	☼	06/26/15 10:46	06/30/15 02:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.74	J	5.6	0.52	mg/Kg	☼	06/17/15 16:02	06/23/15 12:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3100	B F1	53	18	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Antimony	ND		5.3	0.69	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Arsenic	8.0	J	11	2.8	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Barium	74		21	1.0	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Beryllium	ND		1.1	0.28	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Cadmium	0.49	J	0.53	0.17	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Calcium	180000		530	62	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Chromium	17		11	4.8	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Cobalt	3.8		2.1	0.46	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Copper	11		11	1.1	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Iron	20000		53	35	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Lead	6.8		3.2	1.1	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Magnesium	71000		530	40	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Manganese	440		5.3	0.82	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Nickel	20		5.3	1.1	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Niobium	ND	F1	27	4.0	mg/Kg	☼	06/19/15 08:57	06/30/15 15:59	20
Potassium	720	F1	110	32	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Selenium	ND		5.3	1.7	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Silver	ND		2.1	0.25	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Sodium	940	B	210	71	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Thallium	ND		5.3	1.6	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Vanadium	34		11	7.8	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20
Zinc	230		53	14	mg/Kg	☼	06/19/15 08:57	07/01/15 08:11	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tantalum	ND	F1	11	1.7	mg/Kg	☼	07/01/15 11:25	07/02/15 16:36	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.035	0.012	mg/Kg	☼	06/15/15 08:19	06/15/15 14:34	1

Client Sample ID: FEEBRIS1D-13.093-094

Lab Sample ID: 160-12305-1
Date Collected: 06/12/15 14:15
Matrix: Solid
Date Received: 06/12/15 16:25
Percent Solids: 88.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1100	B	57	6.2	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Bicarbonate Alkalinity as CaCO3	810	F1 B	57	6.2	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Carbonate Alkalinity as CaCO3	270		57	6.2	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1

Client Sample ID: FEEBRIS1D-13.085-086

Lab Sample ID: 160-12305-2
Date Collected: 06/12/15 14:32
Matrix: Solid
Date Received: 06/12/15 16:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.71		0.100	0.100	SU		06/17/15 13:00	06/17/15 16:01	1

Client Sample ID: FEEBRIS1D-13.085-086

Lab Sample ID: 160-12305-2
Date Collected: 06/12/15 14:32
Matrix: Solid
Date Received: 06/12/15 16:25
Percent Solids: 85.7

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	55		5.8	0.58	mg/Kg	☼	06/26/15 10:46	06/30/15 03:06	1
Fluoride	2.7		1.2	0.12	mg/Kg	☼	06/26/15 10:46	06/30/15 03:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.9	J	5.7	0.53	mg/Kg	☼	06/17/15 16:02	06/23/15 12:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000	B	26	8.6	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Antimony	ND		2.6	0.33	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Arsenic	6.2		5.1	1.3	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Barium	250		10	0.48	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Beryllium	0.69		0.51	0.13	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Cadmium	0.32		0.26	0.082	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Calcium	11000		260	30	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Chromium	18		5.1	2.3	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Cobalt	10		1.0	0.22	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Copper	18		5.1	0.52	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Iron	21000		26	17	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Lead	13		1.5	0.51	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Magnesium	6700		260	19	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Manganese	300		2.6	0.40	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Nickel	28		2.6	0.55	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Niobium	ND		13	1.9	mg/Kg	☼	06/19/15 08:57	06/30/15 16:16	10
Potassium	1600		51	15	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Selenium	4.0		2.6	0.81	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Silver	0.13	J	1.0	0.12	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Sodium	440	B	100	34	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Thallium	ND		2.6	0.78	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Vanadium	34		5.1	3.8	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10
Zinc	74		26	6.8	mg/Kg	☼	06/19/15 08:57	07/01/15 08:58	10

Client Sample ID: FEEBRIS1D-13.085-086

Lab Sample ID: 160-12305-2
Date Collected: 06/12/15 14:32
Matrix: Solid
Date Received: 06/12/15 16:25
Percent Solids: 85.7

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tantalum	ND		5.5	0.85	mg/Kg	☼	07/01/15 11:25	07/02/15 16:54	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.036	0.012	mg/Kg	☼	06/15/15 08:19	06/15/15 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1000	B	58	6.3	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Bicarbonate Alkalinity as CaCO3	980	B	58	6.3	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Carbonate Alkalinity as CaCO3	47	J	58	6.3	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1

Client Sample ID: FEEBRIS1D-14.082-084

Lab Sample ID: 160-12305-3
Date Collected: 06/12/15 14:51
Matrix: Solid
Date Received: 06/12/15 16:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.0997	0.0997	SU		06/17/15 13:00	06/17/15 16:01	1

Client Sample ID: FEEBRIS1D-14.082-084

Lab Sample ID: 160-12305-3
Date Collected: 06/12/15 14:51
Matrix: Solid
Date Received: 06/12/15 16:25
Percent Solids: 90.2

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.8		1.1	0.11	mg/Kg	☼	06/26/15 10:46	06/30/15 03:34	1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	360		110	11	mg/Kg	☼	06/26/15 10:46	06/30/15 03:48	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.2	J	5.4	0.50	mg/Kg	☼	06/17/15 16:02	06/23/15 12:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8200	B	25	8.4	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Antimony	ND		2.5	0.33	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Arsenic	9.5		5.0	1.3	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Barium	210		10	0.47	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Beryllium	0.55		0.50	0.13	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Cadmium	0.37		0.25	0.080	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Calcium	26000		250	29	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Chromium	16		5.0	2.3	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Cobalt	13		1.0	0.22	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Copper	17		5.0	0.51	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Iron	16000		25	17	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Lead	11		1.5	0.50	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Magnesium	13000		250	19	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10

Client Sample ID: FEEBRIS1D-14.082-084

Lab Sample ID: 160-12305-3
Date Collected: 06/12/15 14:51
Matrix: Solid
Date Received: 06/12/15 16:25
Percent Solids: 90.2

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	850		2.5	0.39	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Nickel	29		2.5	0.54	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Niobium	ND		13	1.9	mg/Kg	☼	06/19/15 08:57	06/30/15 16:21	10
Potassium	1500		50	15	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Selenium	4.8		2.5	0.79	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Silver	ND		1.0	0.12	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Sodium	460	B	100	33	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Thallium	ND		2.5	0.76	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Vanadium	28		5.0	3.7	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10
Zinc	65		25	6.7	mg/Kg	☼	06/19/15 08:57	07/01/15 09:05	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tantalum	ND		4.8	0.75	mg/Kg	☼	07/01/15 11:25	07/02/15 16:58	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	J	0.036	0.012	mg/Kg	☼	06/15/15 08:19	06/15/15 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1800	B	55	6.0	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Bicarbonate Alkalinity as CaCO3	1500	B	55	6.0	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Carbonate Alkalinity as CaCO3	270		55	6.0	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1

Client Sample ID: FEEBRIS1D-14.054-056

Lab Sample ID: 160-12305-4
Date Collected: 06/12/15 14:58
Matrix: Solid
Date Received: 06/12/15 16:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.0999	0.0999	SU		06/17/15 13:00	06/17/15 16:01	1

Client Sample ID: FEEBRIS1D-14.054-056

Lab Sample ID: 160-12305-4
Date Collected: 06/12/15 14:58
Matrix: Solid
Date Received: 06/12/15 16:25
Percent Solids: 82.7

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	73		6.1	0.61	mg/Kg	☼	06/26/15 10:47	06/30/15 04:01	1
Fluoride	4.9		1.2	0.12	mg/Kg	☼	06/26/15 10:47	06/30/15 04:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.7	J	6.0	0.56	mg/Kg	☼	06/17/15 16:02	06/23/15 12:22	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000	B	30	9.9	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Antimony	ND		3.0	0.38	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Arsenic	10		5.9	1.5	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10

Client Sample ID: FEEBRIS1D-14.054-056
Date Collected: 06/12/15 14:58
Date Received: 06/12/15 16:25

Lab Sample ID: 160-12305-4
Matrix: Solid
Percent Solids: 82.7

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	240		12	0.56	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Beryllium	0.78		0.59	0.15	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Cadmium	0.47		0.30	0.095	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Calcium	4500		300	34	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Chromium	30		5.9	2.7	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Cobalt	13		1.2	0.25	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Copper	35		5.9	0.60	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Iron	28000		30	19	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Lead	16		1.8	0.59	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Magnesium	5100		300	22	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Manganese	430		3.0	0.45	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Nickel	78		3.0	0.63	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Niobium	ND		15	2.2	mg/Kg	☼	06/19/15 08:57	06/30/15 16:38	10
Potassium	1900		59	18	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Selenium	4.7		3.0	0.93	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Silver	ND		1.2	0.14	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Sodium	970	B	120	39	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Thallium	ND		3.0	0.90	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Vanadium	42		5.9	4.3	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10
Zinc	86		30	7.9	mg/Kg	☼	06/19/15 08:57	07/01/15 09:11	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tantalum	ND		5.6	0.87	mg/Kg	☼	07/01/15 11:25	07/02/15 17:02	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.035	0.012	mg/Kg	☼	06/15/15 08:19	06/15/15 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2000	B	61	6.6	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Bicarbonate Alkalinity as CaCO3	1300	B	61	6.6	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1
Carbonate Alkalinity as CaCO3	680		61	6.6	mg/Kg	☼	06/15/15 12:16	06/17/15 12:01	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-197547/1-A
Matrix: Solid
Analysis Batch: 197820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 197547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.50	mg/Kg		06/26/15 10:46	06/30/15 00:19	1
Fluoride	ND		1.0	0.10	mg/Kg		06/26/15 10:46	06/30/15 00:19	1

Lab Sample ID: LCS 160-197547/2-A
Matrix: Solid
Analysis Batch: 197820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 197547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	79.8	77.0		mg/Kg		96	80 - 120
Fluoride	9.98	10.0		mg/Kg		101	80 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-66077/1-A
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.0	0.46	mg/Kg		06/17/15 16:02	06/23/15 10:56	1

Lab Sample ID: LCS 550-66077/2-A
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	49.6	42.7		mg/Kg		86	80 - 120

Lab Sample ID: LCSD 550-66077/3-A
Matrix: Solid
Analysis Batch: 66424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66077

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	48.9	42.0		mg/Kg		86	80 - 120	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-196266/1-A
Matrix: Solid
Analysis Batch: 198205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		2.2	0.34	mg/Kg		06/19/15 08:57	06/30/15 15:41	2

Lab Sample ID: MB 160-196266/1-A
Matrix: Solid
Analysis Batch: 198258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.36	J	4.4	1.5	mg/Kg		06/19/15 08:57	07/01/15 07:44	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-196266/1-A
Matrix: Solid
Analysis Batch: 198258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.44	0.057	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Arsenic	ND		0.88	0.23	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Barium	ND		1.8	0.083	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Beryllium	ND		0.088	0.023	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Cadmium	ND		0.044	0.014	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Calcium	ND		44	5.1	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Chromium	ND		0.88	0.40	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Cobalt	ND		0.18	0.038	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Copper	ND		0.88	0.089	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Iron	ND		4.4	2.9	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Lead	ND		0.26	0.088	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Magnesium	ND		44	3.4	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Manganese	ND		0.44	0.068	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Nickel	ND		0.44	0.094	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Potassium	ND		8.8	2.6	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Selenium	ND		0.44	0.14	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Silver	ND		0.18	0.021	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Sodium	6.95	J	18	5.9	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Thallium	ND		0.44	0.13	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Vanadium	ND		0.88	0.65	mg/Kg		06/19/15 08:57	07/01/15 07:44	2
Zinc	ND		4.4	1.2	mg/Kg		06/19/15 08:57	07/01/15 07:44	2

Lab Sample ID: LCS 160-196266/12-A
Matrix: Solid
Analysis Batch: 198205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	43.6	42.6	E	mg/Kg		98	80 - 120

Lab Sample ID: LCSSRM 160-196266/2-A
Matrix: Solid
Analysis Batch: 198258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	7370		mg/Kg		91.4	39.5 - 160.0
Antimony	94.0	57.1		mg/Kg		60.8	22.8 - 257.4
Arsenic	113	122		mg/Kg		107.9	69.7 - 142.5
Barium	155	163		mg/Kg		105.1	72.9 - 127.1
Beryllium	109	111		mg/Kg		101.9	74.7 - 124.8
Cadmium	67.5	69.0		mg/Kg		102.2	73.2 - 126.8
Calcium	5850	5830		mg/Kg		99.7	73.7 - 126.5
Chromium	164	176		mg/Kg		107.2	70.7 - 129.9

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-196266/2-A
Matrix: Solid
Analysis Batch: 198258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	100	112		mg/Kg		112.1	74.4 - 126.0
Copper	128	143		mg/Kg		111.5	75.2 - 125.8
Iron	15200	14700		mg/Kg		96.6	37.4 - 162.5
Lead	90.1	95.4		mg/Kg		105.8	70.1 - 129.9
Magnesium	2790	2970		mg/Kg		106.5	65.2 - 135.1
Manganese	363	393		mg/Kg		108.3	75.8 - 124.5
Nickel	89.3	108		mg/Kg		120.6	72.0 - 127.7
Potassium	2770	2800		mg/Kg		101.2	61.7 - 138.3
Selenium	156	170		mg/Kg		108.9	67.3 - 132.1
Silver	52.6	55.6		mg/Kg		105.7	66.7 - 133.5
Sodium	686	743		mg/Kg		108.4	55.8 - 144.2
Thallium	116	123		mg/Kg		105.7	67.4 - 131.9
Vanadium	73.0	73.7		mg/Kg		101.0	59.7 - 139.7
Zinc	168	184		mg/Kg		109.7	69.0 - 131.5

Lab Sample ID: 160-12305-1 MS
Matrix: Solid
Analysis Batch: 198205

Client Sample ID: FEEBRIS1D-13.093-094
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	ND	F1	52.9	36.4	F1	mg/Kg	☼	69	75 - 125

Lab Sample ID: 160-12305-1 MS
Matrix: Solid
Analysis Batch: 198258

Client Sample ID: FEEBRIS1D-13.093-094
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	3100	B F1	1060	6020	F1	mg/Kg	☼	276	75 - 125
Antimony	ND		52.9	43.7		mg/Kg	☼	83	75 - 125
Arsenic	8.0	J	106	120		mg/Kg	☼	106	75 - 125
Barium	74		106	179		mg/Kg	☼	99	75 - 125
Beryllium	ND		106	105		mg/Kg	☼	99	75 - 125
Cadmium	0.49	J	106	106		mg/Kg	☼	100	75 - 125
Calcium	180000		1060	192000	4	mg/Kg	☼	1228	75 - 125
Chromium	17		106	127		mg/Kg	☼	104	75 - 125
Cobalt	3.8		106	111		mg/Kg	☼	101	75 - 125
Copper	11		106	119		mg/Kg	☼	102	75 - 125
Iron	20000		1060	21800	4	mg/Kg	☼	190	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-12305-1 MS
Matrix: Solid
Analysis Batch: 198258

Client Sample ID: FEEBRIS1D-13.093-094
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	6.8		106	114		mg/Kg	☼	101	75 - 125
Magnesium	71000		1060	79100	4	mg/Kg	☼	754	75 - 125
Manganese	440		106	570	4	mg/Kg	☼	128	75 - 125
Nickel	20		106	133		mg/Kg	☼	107	75 - 125
Potassium	720	F1	1060	2200	F1	mg/Kg	☼	140	75 - 125
Selenium	ND		52.9	56.6		mg/Kg	☼	107	75 - 125
Silver	ND		21.1	20.5		mg/Kg	☼	97	75 - 125
Sodium	940	B	1060	2080		mg/Kg	☼	108	75 - 125
Thallium	ND		21.1	20.3		mg/Kg	☼	96	75 - 125
Vanadium	34		106	150		mg/Kg	☼	110	75 - 125
Zinc	230		106	350		mg/Kg	☼	116	75 - 125

Lab Sample ID: 160-12305-1 MSD
Matrix: Solid
Analysis Batch: 198205

Client Sample ID: FEEBRIS1D-13.093-094
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium	ND	F1	50.9	33.6	F1	mg/Kg	☼	66	75 - 125	8	30

Lab Sample ID: 160-12305-1 MSD
Matrix: Solid
Analysis Batch: 198258

Client Sample ID: FEEBRIS1D-13.093-094
Prep Type: Total/NA
Prep Batch: 196266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	3100	B F1	1020	6030	F1	mg/Kg	☼	288	75 - 125	0	30
Antimony	ND		50.9	40.8		mg/Kg	☼	80	75 - 125	7	30
Arsenic	8.0	J	102	118		mg/Kg	☼	108	75 - 125	2	30
Barium	74		102	180		mg/Kg	☼	104	75 - 125	0	30
Beryllium	ND		102	99.1		mg/Kg	☼	97	75 - 125	5	30
Cadmium	0.49	J	102	102		mg/Kg	☼	99	75 - 125	5	30
Calcium	180000		1020	197000	4	mg/Kg	☼	1789	75 - 125	3	30
Chromium	17		102	125		mg/Kg	☼	106	75 - 125	2	30
Cobalt	3.8		102	107		mg/Kg	☼	101	75 - 125	4	30
Copper	11		102	115		mg/Kg	☼	103	75 - 125	3	30
Iron	20000		1020	23500	4	mg/Kg	☼	367	75 - 125	8	30
Lead	6.8		102	109		mg/Kg	☼	101	75 - 125	4	30
Magnesium	71000		1020	70900	4	mg/Kg	☼	-22	75 - 125	11	30
Manganese	440		102	577	4	mg/Kg	☼	139	75 - 125	1	30
Nickel	20		102	127		mg/Kg	☼	105	75 - 125	5	30
Potassium	720	F1	1020	2150	F1	mg/Kg	☼	141	75 - 125	2	30
Selenium	ND		50.9	55.4		mg/Kg	☼	109	75 - 125	2	30
Silver	ND		20.3	19.4		mg/Kg	☼	95	75 - 125	5	30
Sodium	940	B	1020	2000		mg/Kg	☼	104	75 - 125	4	30
Thallium	ND		20.3	19.5		mg/Kg	☼	96	75 - 125	4	30
Vanadium	34		102	142		mg/Kg	☼	107	75 - 125	5	30
Zinc	230		102	341		mg/Kg	☼	112	75 - 125	2	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-198239/1-A
Matrix: Solid
Analysis Batch: 198622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 198239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tantalum	ND		0.89	0.14	mg/Kg		07/01/15 11:25	07/02/15 16:28	2

Lab Sample ID: LCS 160-198239/2-A
Matrix: Solid
Analysis Batch: 198622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 198239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	177	156		mg/Kg		88	75 - 125

Method: 6020A - Metals (ICP/MS) - RE

Lab Sample ID: 160-12305-1 MS
Matrix: Solid
Analysis Batch: 198622

Client Sample ID: FEEBRIS1D-13.093-094
Prep Type: Total/NA
Prep Batch: 198239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum - RE	ND	F1	206	8.45	J F1	mg/Kg	☼	4	75 - 125

Lab Sample ID: 160-12305-1 MSD
Matrix: Solid
Analysis Batch: 198622

Client Sample ID: FEEBRIS1D-13.093-094
Prep Type: Total/NA
Prep Batch: 198239

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tantalum - RE	ND	F1	211	10.3	J F1	mg/Kg	☼	5	75 - 125	20	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-195196/1-A
Matrix: Solid
Analysis Batch: 195472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.029	0.0095	mg/Kg		06/15/15 08:19	06/15/15 14:27	1

Lab Sample ID: LCSSRM 160-195196/2-A
Matrix: Solid
Analysis Batch: 195472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195196

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.76	5.21		mg/Kg		90.5	51.0 - 148.8

Lab Sample ID: 160-12305-2 MS
Matrix: Solid
Analysis Batch: 195472

Client Sample ID: FEEBRIS1D-13.085-086
Prep Type: Total/NA
Prep Batch: 195196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.014	J	0.856	0.840		mg/Kg	☼	96	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 160-12305-2 MSD — **Client Sample ID: FEEBRIS1D-13.085-086**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195472 — **Prep Batch: 195196**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.014	J	0.866	0.887		mg/Kg	☼	101	80 - 120	5	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-195262/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195613 — **Prep Batch: 195262**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	9.99	J	50	5.4	mg/Kg		06/15/15 12:16	06/17/15 12:01	1
Bicarbonate Alkalinity as CaCO3	9.99	J	50	5.4	mg/Kg		06/15/15 12:16	06/17/15 12:01	1
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		06/15/15 12:16	06/17/15 12:01	1

Lab Sample ID: LCS 160-195262/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195613 — **Prep Batch: 195262**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	2000	1960		mg/Kg		98	90 - 110
Bicarbonate Alkalinity as CaCO3	2000	1960		mg/Kg		98	90 - 110

Lab Sample ID: 160-12305-1 MS — **Client Sample ID: FEEBRIS1D-13.093-094**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195613 — **Prep Batch: 195262**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	1100	B	1130	2430		mg/Kg	☼	119	75 - 125
Bicarbonate Alkalinity as CaCO3	810	F1 B	1130	2250	F1	mg/Kg	☼	127	75 - 125

Lab Sample ID: 160-12305-1 DU — **Client Sample ID: FEEBRIS1D-13.093-094**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195613 — **Prep Batch: 195262**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	1100	B	1040		mg/Kg	☼	4	30
Bicarbonate Alkalinity as CaCO3	810	F1 B	767		mg/Kg	☼	5	30
Carbonate Alkalinity as CaCO3	270		271		mg/Kg	☼	0.8	30

Method: 9045D - pH

Lab Sample ID: LCS 160-195814/5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 195814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	6.990		SU		100	99.0 - 101.0

HPLC/IC

Prep Batch: 197547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	DILeach_Prep	
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	DILeach_Prep	
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	DILeach_Prep	
160-12305-3 - DL	FEEBRIS1D-14.082-084	Total/NA	Solid	DILeach_Prep	
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	DILeach_Prep	
LCS 160-197547/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-197547/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 197820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	9056A	197547
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	9056A	197547
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	9056A	197547
160-12305-3 - DL	FEEBRIS1D-14.082-084	Total/NA	Solid	9056A	197547
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	9056A	197547
LCS 160-197547/2-A	Lab Control Sample	Total/NA	Solid	9056A	197547
MB 160-197547/1-A	Method Blank	Total/NA	Solid	9056A	197547

Metals

Prep Batch: 66077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	3050B	
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	3050B	
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	3050B	
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	3050B	
LCS 550-66077/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-66077/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 550-66077/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 66424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	6010B	66077
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	6010B	66077
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	6010B	66077
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	6010B	66077
LCS 550-66077/2-A	Lab Control Sample	Total/NA	Solid	6010B	66077
LCSD 550-66077/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	66077
MB 550-66077/1-A	Method Blank	Total/NA	Solid	6010B	66077

Prep Batch: 195196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	7471B	
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	7471B	
160-12305-2 MS	FEEBRIS1D-13.085-086	Total/NA	Solid	7471B	
160-12305-2 MSD	FEEBRIS1D-13.085-086	Total/NA	Solid	7471B	
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	7471B	
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	7471B	
LCSSRM 160-195196/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-195196/1-A	Method Blank	Total/NA	Solid	7471B	

Metals (Continued)

Analysis Batch: 195472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	7471B	195196
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	7471B	195196
160-12305-2 MS	FEEBRIS1D-13.085-086	Total/NA	Solid	7471B	195196
160-12305-2 MSD	FEEBRIS1D-13.085-086	Total/NA	Solid	7471B	195196
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	7471B	195196
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	7471B	195196
LCSSRM 160-195196/2-A	Lab Control Sample	Total/NA	Solid	7471B	195196
MB 160-195196/1-A	Method Blank	Total/NA	Solid	7471B	195196

Prep Batch: 196266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	3050B	
160-12305-1 MS	FEEBRIS1D-13.093-094	Total/NA	Solid	3050B	
160-12305-1 MSD	FEEBRIS1D-13.093-094	Total/NA	Solid	3050B	
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	3050B	
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	3050B	
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	3050B	
LCS 160-196266/12-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-196266/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-196266/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 198205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	196266
160-12305-1 MS	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	196266
160-12305-1 MSD	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	196266
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	6020A	196266
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	6020A	196266
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	6020A	196266
LCS 160-196266/12-A	Lab Control Sample	Total/NA	Solid	6020A	196266
MB 160-196266/1-A	Method Blank	Total/NA	Solid	6020A	196266

Prep Batch: 198239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1 - RE	FEEBRIS1D-13.093-094	Total/NA	Solid	3050B	
160-12305-1 MS - RE	FEEBRIS1D-13.093-094	Total/NA	Solid	3050B	
160-12305-1 MSD - RE	FEEBRIS1D-13.093-094	Total/NA	Solid	3050B	
160-12305-2 - RE	FEEBRIS1D-13.085-086	Total/NA	Solid	3050B	
160-12305-3 - RE	FEEBRIS1D-14.082-084	Total/NA	Solid	3050B	
160-12305-4 - RE	FEEBRIS1D-14.054-056	Total/NA	Solid	3050B	
LCS 160-198239/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-198239/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 198258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	196266
160-12305-1 MS	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	196266
160-12305-1 MSD	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	196266
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	6020A	196266
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	6020A	196266
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	6020A	196266

Metals (Continued)

Analysis Batch: 198258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 160-196266/2-A	Lab Control Sample	Total/NA	Solid	6020A	196266
MB 160-196266/1-A	Method Blank	Total/NA	Solid	6020A	196266

Analysis Batch: 198622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1 - RE	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	198239
160-12305-1 MS - RE	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	198239
160-12305-1 MSD - RE	FEEBRIS1D-13.093-094	Total/NA	Solid	6020A	198239
160-12305-2 - RE	FEEBRIS1D-13.085-086	Total/NA	Solid	6020A	198239
160-12305-3 - RE	FEEBRIS1D-14.082-084	Total/NA	Solid	6020A	198239
160-12305-4 - RE	FEEBRIS1D-14.054-056	Total/NA	Solid	6020A	198239
LCS 160-198239/2-A	Lab Control Sample	Total/NA	Solid	6020A	198239
MB 160-198239/1-A	Method Blank	Total/NA	Solid	6020A	198239

General Chemistry

Prep Batch: 195262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	DILeach_Prep	
160-12305-1 DU	FEEBRIS1D-13.093-094	Total/NA	Solid	DILeach_Prep	
160-12305-1 MS	FEEBRIS1D-13.093-094	Total/NA	Solid	DILeach_Prep	
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	DILeach_Prep	
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	DILeach_Prep	
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	DILeach_Prep	
LCS 160-195262/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-195262/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 195470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	Moisture	
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	Moisture	
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	Moisture	
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	Moisture	

Analysis Batch: 195613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	310.1	195262
160-12305-1 DU	FEEBRIS1D-13.093-094	Total/NA	Solid	310.1	195262
160-12305-1 MS	FEEBRIS1D-13.093-094	Total/NA	Solid	310.1	195262
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	310.1	195262
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	310.1	195262
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	310.1	195262
LCS 160-195262/2-A	Lab Control Sample	Total/NA	Solid	310.1	195262
MB 160-195262/1-A	Method Blank	Total/NA	Solid	310.1	195262

Prep Batch: 195786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	DILeach_Prep	
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	DILeach_Prep	
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	DILeach_Prep	

General Chemistry (Continued)

Prep Batch: 195786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 195814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12305-1	FEEBRIS1D-13.093-094	Total/NA	Solid	9045D	195786
160-12305-2	FEEBRIS1D-13.085-086	Total/NA	Solid	9045D	195786
160-12305-3	FEEBRIS1D-14.082-084	Total/NA	Solid	9045D	195786
160-12305-4	FEEBRIS1D-14.054-056	Total/NA	Solid	9045D	195786
LCS 160-195814/5	Lab Control Sample	Total/NA	Solid	9045D	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-12447-1
Client Project/Site: West Lake Landfill
Revision: 1

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
8/13/2015 4:54:13 PM

Erika Gish, Project Manager II
(314)298-8566
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-12447-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-12447-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Revision 1: The report was revised to report Fluoride from the original run per client requirements. Due to lab error it was not initially reported.

RECEIPT

The samples were received on 6/24/2015 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

Receipt Exceptions

Samples #2, #3, and #7 may have gotten water in them from melted ice.

TOTAL METALS (ICP)

Samples FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12) were

Job ID: 160-12447-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/26/2015 and analyzed on 06/29/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

METALS (ICPMS)

Samples FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 07/01/2015 and 07/09/2015 and analyzed on 07/08/2015, 07/09/2015 and 07/10/2015.

Analytical Batch 160-199347

The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12). Elevated reporting limits (RLs) are provided.

The MS/MSD/serial dilution was analyzed on a different job within the prep batch. The sample chosen for batch QC had a different analyte list. As a result, the MS/MSD/serial dilution was not analyzed for tantalum. Method performance is demonstrated by acceptable LCS recovery.

Analytical Batch 160-199360

The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12). Elevated reporting limits (RLs) are provided.

Aluminum was detected in method blank MB 160-198233/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged.

The MS/MSD/serial dilution was analyzed on a different job within the prep batch. The sample chosen for batch QC had a different analyte list. As a result, the MS/MSD/serial dilution was not analyzed for the majority of metals. Method performance is demonstrated by acceptable LCS recovery.

Analytical Batch 160-199583

The MS/MSD/serial dilution was analyzed on a different job within the prep batch. The sample chosen for batch QC had a different analyte list. As a result, the MS/MSD/serial dilution was not analyzed for tantalum and copper. Method performance is demonstrated by acceptable LCS recovery.

Analytical Batch 160-199588

The following samples was diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-18.013-014 (160-12447-8). Elevated reporting limits (RLs) are provided.

The MS/MSD/serial dilution was analyzed on a different job within the prep batch. The sample chosen for batch QC had a different analyte list. As a result, the MS/MSD/serial dilution was not analyzed for the same list of metals. Method performance is demonstrated by acceptable LCS recovery.

The low level check standard recovery is outside the upper acceptance criteria for the following analyte(s): Aluminum. The associated samples are greater than 10X the amount of aluminum in the CRI and CCVL therefore no reruns will be performed. (CCVL 160-199588/10), (CCVL 160-199588/22) and (CRI 160-199588/7)

Job ID: 160-12447-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Analytical Batch 160-199709
Samples were re-extracted due to the LCS not being spiked with Nb in the original batch.
FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11), FEEBRIS1D-17.033-036 (160-12447-12), (160-12447-B-1 MS) and (160-12447-B-1 MSD)

The following samples were diluted to bring the concentration of target analytes within the calibration range, as well as due to the yellow color of the digestates: FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11), FEEBRIS1D-17.033-036 (160-12447-12), (160-12447-B-1-B MS), (160-12447-B-1-C MSD) and (160-12447-B-1-A SD). Elevated reporting limits (RLs) are provided.

The matrix spike duplicate (MSD) recovery for preparation batch 160-199406 and analytical batch 160-199709 were outside control limits niobium. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 06/25/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ALKALINITY
Samples FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12) were analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared and analyzed on 06/29/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

PH
Samples FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12) were analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 06/25/2015.

Due to their absorptive properties, the following samples from pH soils batch 197379 required additional Di-water in order to be able to use the pH probe: FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.024-027 (160-12447-4) and FEEBRIS1D-17.030-031 (160-12447-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY
Samples FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6),

Job ID: 160-12447-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12) were analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 07/01/2015 and analyzed on 07/10/2015.

The following samples in Anion batch 199475 were analyzed at dilution to start, based on suspected high levels of the target analytes: FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12). Further and lesser dilutions were then analyzed to bring results within the adjusted calibration ranges.

Chloride was detected in method blank MB 160-198300/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged.

Only sample FEEBRIS1D-02.020-023 (160-12447-6) is reported with a result below the adjusted reporting limit (RL) at dilution for Chloride, as the sample matrix was a bright blue leachate that was deemed inappropriate to analyze at lesser dilution, to protect the instrument columns. However, the Chloride result for this sample is above the adjusted MDL at dilution.

The following samples in Anion batch 199475 were analyzed at dilution to start, based on the target analyte list of Chloride and Sulfate: FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12). Later, it was discovered that Chloride was not a target of interest, and instead Fluoride should have been logged in. As these samples were analyzed at dilution to start for Chloride, these samples are all reported below the adjusted reporting limit (RL) for Fluoride, with the exception of sample 12447-4, which did have a result for Fluoride over the RL at dilution.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples FEEBRIS1D-09.099-100 (160-12447-1), FEEBRIS1D-09.078-079 (160-12447-2), FEEBRIS1D-01.007-009 (160-12447-3), FEEBRIS1D-01.024-027 (160-12447-4), FEEBRIS1D-02.027-030 (160-12447-5), FEEBRIS1D-02.020-023 (160-12447-6), FEEBRIS1D-02.036-037 (160-12447-7), FEEBRIS1D-18.013-014 (160-12447-8), FEEBRIS1D-18.038-041 (160-12447-9), FEEBRIS1D-18.044-046 (160-12447-10), FEEBRIS1D-17.030-031 (160-12447-11) and FEEBRIS1D-17.033-036 (160-12447-12) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 06/25/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 6/17/15	COC No: 160-2800-1326.1
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks ☑ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: West Lake Landfill				Job / SDG No.:
Project Number: 16002280				
P O # Not Required				Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium
			Preservation code					N	N	N	N	N	N
FEEBRIS1D-09.099-100	6/17/15	1314	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-09.078-079	6/17/15	1300	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-01.007-009	6/22/15	1007	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-01.024-027	6/22/15	1015	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-02.027-030	6/22/15	1104	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-02.020-023	6/22/15	1120	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-02.036-037	6/22/15	1130	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-18.013-014	6/22/15	1247	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-18.038-041	6/22/15	1256	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-18.044-046	6/22/15	1304	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-17.030-031	6/22/15	1456	G	S	3			✓	✓	✓	✓	✓	✓
FEEBRIS1D-17.033-036	6/22/15	1503	G	S	3			✓	✓	✓	✓	✓	✓

160-12447 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: FEI	Date/Time: 6/24/15 0850	Received by:	Company:	Date/Time: 6-24-15 1650
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12447-1

Login Number: 12447
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12447-1

Login Number: 12447
List Number: 2
Creator: Gravlin, Andrea

List Source: TestAmerica Phoenix
List Creation: 06/26/15 10:10 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12447-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6010B	Metals (ICP)	SW846	TAL PHX
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12447-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-12447-1	FEEBRIS1D-09.099-100	Solid	06/17/15 13:14	06/24/15 08:50
160-12447-2	FEEBRIS1D-09.078-079	Solid	06/17/15 13:00	06/24/15 08:50
160-12447-3	FEEBRIS1D-01.007-009	Solid	06/22/15 10:07	06/24/15 08:50
160-12447-4	FEEBRIS1D-01.024-027	Solid	06/22/15 10:15	06/24/15 08:50
160-12447-5	FEEBRIS1D-02.027-030	Solid	06/22/15 11:04	06/24/15 08:50
160-12447-6	FEEBRIS1D-02.020-023	Solid	06/22/15 11:20	06/24/15 08:50
160-12447-7	FEEBRIS1D-02.036-037	Solid	06/22/15 11:30	06/24/15 08:50
160-12447-8	FEEBRIS1D-18.013-014	Solid	06/22/15 12:47	06/24/15 08:50
160-12447-9	FEEBRIS1D-18.038-041	Solid	06/22/15 12:56	06/24/15 08:50
160-12447-10	FEEBRIS1D-18.044-046	Solid	06/22/15 13:04	06/24/15 08:50
160-12447-11	FEEBRIS1D-17.030-031	Solid	06/22/15 14:56	06/24/15 08:50
160-12447-12	FEEBRIS1D-17.033-036	Solid	06/22/15 15:03	06/24/15 08:50

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12447-1

Client Sample ID: FEEBRIS1D-09.099-100 — Lab Sample ID: 160-12447-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	920		30	3.0	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	1.5	J	6.0	0.60	mg/Kg	5	☼	9056A	Total/NA
Aluminum	3400	B	26	8.8	mg/Kg	10	☼	6020A	Total/NA
Antimony	0.71	J	2.6	0.34	mg/Kg	10	☼	6020A	Total/NA
Arsenic	6.3		5.3	1.4	mg/Kg	10	☼	6020A	Total/NA
Barium	160		11	0.50	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.27	J	0.53	0.14	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.71		0.26	0.085	mg/Kg	10	☼	6020A	Total/NA
Calcium	11000		260	31	mg/Kg	10	☼	6020A	Total/NA
Chromium	13		5.3	2.4	mg/Kg	10	☼	6020A	Total/NA
Cobalt	4.3		1.1	0.23	mg/Kg	10	☼	6020A	Total/NA
Copper	120		5.3	0.53	mg/Kg	10	☼	6020A	Total/NA
Iron	12000		26	17	mg/Kg	10	☼	6020A	Total/NA
Lead	140		1.6	0.53	mg/Kg	10	☼	6020A	Total/NA
Magnesium	3200		260	20	mg/Kg	10	☼	6020A	Total/NA
Manganese	130		2.6	0.41	mg/Kg	10	☼	6020A	Total/NA
Nickel	14		2.6	0.57	mg/Kg	10	☼	6020A	Total/NA
Potassium	670		53	16	mg/Kg	10	☼	6020A	Total/NA
Selenium	2.6		2.6	0.84	mg/Kg	10	☼	6020A	Total/NA
Silver	1.7		1.1	0.13	mg/Kg	10	☼	6020A	Total/NA
Sodium	510		110	35	mg/Kg	10	☼	6020A	Total/NA
Vanadium	12		5.3	3.9	mg/Kg	10	☼	6020A	Total/NA
Zinc	160		26	7.0	mg/Kg	10	☼	6020A	Total/NA
Tantalum	2.8	J	5.3	0.83	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.014	J	0.035	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	670		60	6.5	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	620		60	6.5	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	48	J	60	6.5	mg/Kg	1	☼	310.1	Total/NA
pH	7.62		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-09.078-079 — Lab Sample ID: 160-12447-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride - DL	2.1	J	6.7	0.67	mg/Kg	5	☼	9056A	Total/NA
Sulfate - DL2	1400		670	67	mg/Kg	100	☼	9056A	Total/NA
Aluminum	5000	B	160	53	mg/Kg	50	☼	6020A	Total/NA
Barium	99		64	3.0	mg/Kg	50	☼	6020A	Total/NA
Cadmium	0.65	J	1.6	0.51	mg/Kg	50	☼	6020A	Total/NA
Calcium	6700		1600	180	mg/Kg	50	☼	6020A	Total/NA
Chromium	56		32	14	mg/Kg	50	☼	6020A	Total/NA
Cobalt	11		6.4	1.4	mg/Kg	50	☼	6020A	Total/NA
Copper	88		32	3.2	mg/Kg	50	☼	6020A	Total/NA
Iron	89000		160	100	mg/Kg	50	☼	6020A	Total/NA
Lead	380		9.5	3.2	mg/Kg	50	☼	6020A	Total/NA
Magnesium	2300		1600	120	mg/Kg	50	☼	6020A	Total/NA
Manganese	580		16	2.4	mg/Kg	50	☼	6020A	Total/NA
Nickel	100		16	3.4	mg/Kg	50	☼	6020A	Total/NA
Potassium	1000		320	95	mg/Kg	50	☼	6020A	Total/NA
Sodium	3600		640	210	mg/Kg	50	☼	6020A	Total/NA
Zinc	310		160	42	mg/Kg	50	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-09.078-079 (Continued) — Lab Sample ID: 160-12447-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.60		0.039	0.013	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	850		66	7.2	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	850		66	7.2	mg/Kg	1	☼	310.1	Total/NA
pH	7.80		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-01.007-009 — Lab Sample ID: 160-12447-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	5.2		1.1	0.11	mg/Kg	1	☼	9056A	Total/NA
Sulfate - DL	150		28	2.8	mg/Kg	5	☼	9056A	Total/NA
Scandium	2.2	J	5.6	0.53	mg/Kg	1	☼	6010B	Total/NA
Aluminum	7400	B	28	9.2	mg/Kg	10	☼	6020A	Total/NA
Arsenic	6.8		5.5	1.4	mg/Kg	10	☼	6020A	Total/NA
Barium	160		11	0.52	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.40	J	0.55	0.14	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.28		0.28	0.088	mg/Kg	10	☼	6020A	Total/NA
Calcium	44000		280	32	mg/Kg	10	☼	6020A	Total/NA
Chromium	11		5.5	2.5	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.8		1.1	0.24	mg/Kg	10	☼	6020A	Total/NA
Copper	13		5.5	0.56	mg/Kg	10	☼	6020A	Total/NA
Iron	19000		28	18	mg/Kg	10	☼	6020A	Total/NA
Lead	9.4		1.7	0.55	mg/Kg	10	☼	6020A	Total/NA
Magnesium	18000		280	21	mg/Kg	10	☼	6020A	Total/NA
Manganese	1100		2.8	0.42	mg/Kg	10	☼	6020A	Total/NA
Nickel	17		2.8	0.59	mg/Kg	10	☼	6020A	Total/NA
Potassium	910		55	17	mg/Kg	10	☼	6020A	Total/NA
Selenium	1.7	J	2.8	0.87	mg/Kg	10	☼	6020A	Total/NA
Sodium	250		110	37	mg/Kg	10	☼	6020A	Total/NA
Vanadium	24		5.5	4.0	mg/Kg	10	☼	6020A	Total/NA
Zinc	47		28	7.3	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.027	J	0.033	0.011	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1000		57	6.1	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	950		57	6.1	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	68		57	6.1	mg/Kg	1	☼	310.1	Total/NA
pH	7.91		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-01.024-027 — Lab Sample ID: 160-12447-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	480		30	3.0	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	43		5.9	0.59	mg/Kg	5	☼	9056A	Total/NA
Aluminum	2800	B	26	8.6	mg/Kg	10	☼	6020A	Total/NA
Antimony	0.49	J	2.6	0.33	mg/Kg	10	☼	6020A	Total/NA
Barium	57		10	0.48	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.14	J	0.51	0.13	mg/Kg	10	☼	6020A	Total/NA
Cadmium	6.0		0.26	0.082	mg/Kg	10	☼	6020A	Total/NA
Calcium	65000		260	30	mg/Kg	10	☼	6020A	Total/NA
Chromium	51		5.1	2.3	mg/Kg	10	☼	6020A	Total/NA
Cobalt	2.2		1.0	0.22	mg/Kg	10	☼	6020A	Total/NA
Copper	60		5.1	0.52	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-01.024-027 (Continued) — Lab Sample ID: 160-12447-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4400		26	17	mg/Kg	10	☼	6020A	Total/NA
Lead	28		1.5	0.51	mg/Kg	10	☼	6020A	Total/NA
Magnesium	8400		260	20	mg/Kg	10	☼	6020A	Total/NA
Manganese	230		2.6	0.40	mg/Kg	10	☼	6020A	Total/NA
Nickel	55		2.6	0.55	mg/Kg	10	☼	6020A	Total/NA
Potassium	420		51	15	mg/Kg	10	☼	6020A	Total/NA
Sodium	510		100	34	mg/Kg	10	☼	6020A	Total/NA
Vanadium	23		5.1	3.8	mg/Kg	10	☼	6020A	Total/NA
Zinc	420		26	6.8	mg/Kg	10	☼	6020A	Total/NA
Tantalum	1.4	J	5.1	0.80	mg/Kg	10	☼	6020A	Total/NA
Mercury	1.2		0.035	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2800		59	6.4	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	2800		59	6.4	mg/Kg	1	☼	310.1	Total/NA
pH	7.26		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-02.027-030 — Lab Sample ID: 160-12447-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	5100		240	24	mg/Kg	20	☼	9056A	Total/NA
Aluminum	47000	B	55	18	mg/Kg	10	☼	6020A	Total/NA
Antimony	11		5.5	0.72	mg/Kg	10	☼	6020A	Total/NA
Barium	78		22	1.0	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.70		0.55	0.18	mg/Kg	10	☼	6020A	Total/NA
Calcium	45000		550	64	mg/Kg	10	☼	6020A	Total/NA
Chromium	300		11	5.0	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.1		2.2	0.47	mg/Kg	10	☼	6020A	Total/NA
Copper	90		11	1.1	mg/Kg	10	☼	6020A	Total/NA
Iron	43000		55	36	mg/Kg	10	☼	6020A	Total/NA
Lead	150		3.3	1.1	mg/Kg	10	☼	6020A	Total/NA
Magnesium	4300		550	42	mg/Kg	10	☼	6020A	Total/NA
Manganese	2400		5.5	0.85	mg/Kg	10	☼	6020A	Total/NA
Nickel	18		5.5	1.2	mg/Kg	10	☼	6020A	Total/NA
Potassium	3800		110	33	mg/Kg	10	☼	6020A	Total/NA
Sodium	2100		220	73	mg/Kg	10	☼	6020A	Total/NA
Zinc	1500		55	15	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.13		0.072	0.024	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1200		120	13	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1200		120	13	mg/Kg	1	☼	310.1	Total/NA
pH	7.08		0.0995	0.0995	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-02.020-023 — Lab Sample ID: 160-12447-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	300	J	610	61	mg/Kg	100	☼	9056A	Total/NA
Scandium	2.1	J	6.0	0.56	mg/Kg	1	☼	6010B	Total/NA
Aluminum	5200	B	29	9.8	mg/Kg	10	☼	6020A	Total/NA
Arsenic	8.5		5.9	1.5	mg/Kg	10	☼	6020A	Total/NA
Barium	120		12	0.55	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.30	J	0.59	0.15	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.33		0.29	0.094	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-02.020-023 (Continued)

Lab Sample ID: 160-12447-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	62000		290	34	mg/Kg	10	☼	6020A	Total/NA
Chromium	10		5.9	2.6	mg/Kg	10	☼	6020A	Total/NA
Cobalt	7.4		1.2	0.25	mg/Kg	10	☼	6020A	Total/NA
Copper	13		5.9	0.59	mg/Kg	10	☼	6020A	Total/NA
Iron	9900		29	19	mg/Kg	10	☼	6020A	Total/NA
Lead	9.7		1.8	0.59	mg/Kg	10	☼	6020A	Total/NA
Magnesium	14000		290	22	mg/Kg	10	☼	6020A	Total/NA
Manganese	300		2.9	0.45	mg/Kg	10	☼	6020A	Total/NA
Nickel	20		2.9	0.63	mg/Kg	10	☼	6020A	Total/NA
Potassium	830		59	18	mg/Kg	10	☼	6020A	Total/NA
Selenium	2.2	J	2.9	0.93	mg/Kg	10	☼	6020A	Total/NA
Sodium	220		120	39	mg/Kg	10	☼	6020A	Total/NA
Vanadium	20		5.9	4.3	mg/Kg	10	☼	6020A	Total/NA
Zinc	47		29	7.8	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.023	J	0.039	0.013	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1800		61	6.7	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1700		61	6.7	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	150		61	6.7	mg/Kg	1	☼	310.1	Total/NA
pH	8.08		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-02.036-037

Lab Sample ID: 160-12447-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	38		32	3.2	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	2.4	J	6.4	0.64	mg/Kg	5	☼	9056A	Total/NA
Scandium	2.2	J	6.3	0.59	mg/Kg	1	☼	6010B	Total/NA
Aluminum	7800	B	29	9.8	mg/Kg	10	☼	6020A	Total/NA
Arsenic	5.6	J	5.9	1.5	mg/Kg	10	☼	6020A	Total/NA
Barium	260		12	0.55	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.49	J	0.59	0.15	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.24	J	0.29	0.094	mg/Kg	10	☼	6020A	Total/NA
Calcium	20000		290	34	mg/Kg	10	☼	6020A	Total/NA
Chromium	12		5.9	2.6	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.9		1.2	0.25	mg/Kg	10	☼	6020A	Total/NA
Copper	17		5.9	0.59	mg/Kg	10	☼	6020A	Total/NA
Iron	16000		29	19	mg/Kg	10	☼	6020A	Total/NA
Lead	9.5		1.8	0.59	mg/Kg	10	☼	6020A	Total/NA
Magnesium	7900		290	22	mg/Kg	10	☼	6020A	Total/NA
Manganese	390		2.9	0.45	mg/Kg	10	☼	6020A	Total/NA
Nickel	21		2.9	0.63	mg/Kg	10	☼	6020A	Total/NA
Potassium	2200		59	18	mg/Kg	10	☼	6020A	Total/NA
Selenium	1.5	J	2.9	0.93	mg/Kg	10	☼	6020A	Total/NA
Sodium	390		120	39	mg/Kg	10	☼	6020A	Total/NA
Vanadium	24		5.9	4.3	mg/Kg	10	☼	6020A	Total/NA
Zinc	61		29	7.8	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.029	J	0.037	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2600		64	6.9	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1900		64	6.9	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	720		64	6.9	mg/Kg	1	☼	310.1	Total/NA
pH	8.67		0.0999	0.0999	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12447-1

Client Sample ID: FEEBRIS1D-18.013-014 — Lab Sample ID: 160-12447-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride - DL	2.5	J	5.5	0.55	mg/Kg	5	☼	9056A	Total/NA
Sulfate - DL2	1600		550	55	mg/Kg	100	☼	9056A	Total/NA
Scandium	0.89	J	5.4	0.50	mg/Kg	1	☼	6010B	Total/NA
Aluminum	4700	B	26	8.7	mg/Kg	10	☼	6020A	Total/NA
Arsenic	2.9	J	5.2	1.4	mg/Kg	10	☼	6020A	Total/NA
Barium	47		10	0.49	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.22	J	0.52	0.14	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.34		0.26	0.083	mg/Kg	10	☼	6020A	Total/NA
Calcium	260000		1300	150	mg/Kg	50	☼	6020A	Total/NA
Chromium	12		5.2	2.3	mg/Kg	10	☼	6020A	Total/NA
Cobalt	3.3		1.0	0.22	mg/Kg	10	☼	6020A	Total/NA
Copper	5.0	J	5.2	0.53	mg/Kg	10	☼	6020A	Total/NA
Iron	8300		26	17	mg/Kg	10	☼	6020A	Total/NA
Lead	3.8		1.6	0.52	mg/Kg	10	☼	6020A	Total/NA
Magnesium	35000		260	20	mg/Kg	10	☼	6020A	Total/NA
Manganese	160		2.6	0.40	mg/Kg	10	☼	6020A	Total/NA
Nickel	11		2.6	0.56	mg/Kg	10	☼	6020A	Total/NA
Potassium	710		52	16	mg/Kg	10	☼	6020A	Total/NA
Selenium	1.1	J	2.6	0.82	mg/Kg	10	☼	6020A	Total/NA
Sodium	300		100	35	mg/Kg	10	☼	6020A	Total/NA
Vanadium	12		5.2	3.8	mg/Kg	10	☼	6020A	Total/NA
Zinc	38		26	6.9	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.012	J	0.035	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	370		55	6.0	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	320		55	6.0	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	44	J	55	6.0	mg/Kg	1	☼	310.1	Total/NA
pH	7.94		0.100	0.100	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-18.038-041 — Lab Sample ID: 160-12447-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	120		33	3.3	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	1.8	J	6.7	0.67	mg/Kg	5	☼	9056A	Total/NA
Aluminum	120	B ^	6.3	2.1	mg/Kg	2	☼	6020A	Total/NA
Antimony	0.20	J	0.63	0.082	mg/Kg	2	☼	6020A	Total/NA
Barium	41		2.5	0.12	mg/Kg	2	☼	6020A	Total/NA
Cadmium	2.0		0.063	0.020	mg/Kg	2	☼	6020A	Total/NA
Calcium	4300		63	7.4	mg/Kg	2	☼	6020A	Total/NA
Chromium	2.5		1.3	0.57	mg/Kg	2	☼	6020A	Total/NA
Cobalt	0.18	J	0.25	0.054	mg/Kg	2	☼	6020A	Total/NA
Copper	2.1		1.3	0.13	mg/Kg	2	☼	6020A	Total/NA
Iron	340		6.3	4.2	mg/Kg	2	☼	6020A	Total/NA
Lead	10		0.38	0.13	mg/Kg	2	☼	6020A	Total/NA
Magnesium	860		63	4.8	mg/Kg	2	☼	6020A	Total/NA
Manganese	34		0.63	0.097	mg/Kg	2	☼	6020A	Total/NA
Nickel	0.62	J	0.63	0.14	mg/Kg	2	☼	6020A	Total/NA
Potassium	210		13	3.8	mg/Kg	2	☼	6020A	Total/NA
Silver	0.038	J	0.25	0.030	mg/Kg	2	☼	6020A	Total/NA
Sodium	520		25	8.4	mg/Kg	2	☼	6020A	Total/NA
Zinc	12		6.3	1.7	mg/Kg	2	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-18.038-041 (Continued) — Lab Sample ID: 160-12447-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Niobium - RE	0.52	J	3.1	0.47	mg/Kg	2	☼	6020A	Total/NA
Alkalinity	1900		66	7.2	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1900		66	7.2	mg/Kg	1	☼	310.1	Total/NA
pH	7.10		0.0997	0.0997	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-18.044-046 — Lab Sample ID: 160-12447-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	55		30	3.0	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	2.7	J	6.1	0.61	mg/Kg	5	☼	9056A	Total/NA
Scandium	2.3	J	6.0	0.56	mg/Kg	1	☼	6010B	Total/NA
Aluminum	9000	B	29	9.8	mg/Kg	10	☼	6020A	Total/NA
Arsenic	7.5		5.9	1.5	mg/Kg	10	☼	6020A	Total/NA
Barium	210		12	0.55	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.59		0.59	0.15	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.52		0.29	0.094	mg/Kg	10	☼	6020A	Total/NA
Calcium	14000		290	34	mg/Kg	10	☼	6020A	Total/NA
Chromium	13		5.9	2.6	mg/Kg	10	☼	6020A	Total/NA
Cobalt	8.0		1.2	0.25	mg/Kg	10	☼	6020A	Total/NA
Copper	16		5.9	0.59	mg/Kg	10	☼	6020A	Total/NA
Iron	21000		29	19	mg/Kg	10	☼	6020A	Total/NA
Lead	14		1.8	0.59	mg/Kg	10	☼	6020A	Total/NA
Magnesium	5400		290	22	mg/Kg	10	☼	6020A	Total/NA
Manganese	2000		2.9	0.45	mg/Kg	10	☼	6020A	Total/NA
Nickel	21		2.9	0.63	mg/Kg	10	☼	6020A	Total/NA
Potassium	1500		59	18	mg/Kg	10	☼	6020A	Total/NA
Selenium	2.7	J	2.9	0.93	mg/Kg	10	☼	6020A	Total/NA
Sodium	490		120	39	mg/Kg	10	☼	6020A	Total/NA
Vanadium	25		5.9	4.3	mg/Kg	10	☼	6020A	Total/NA
Zinc	63		29	7.8	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.024	J	0.037	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1000		61	6.6	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	950		61	6.6	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	97		61	6.6	mg/Kg	1	☼	310.1	Total/NA
pH	7.87		0.100	0.100	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-17.030-031 — Lab Sample ID: 160-12447-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride - DL	2.6	J	14	1.4	mg/Kg	5	☼	9056A	Total/NA
Sulfate - DL2	6000		1400	140	mg/Kg	100	☼	9056A	Total/NA
Aluminum	18000	B	310	100	mg/Kg	50	☼	6020A	Total/NA
Antimony	5.2	J	31	4.1	mg/Kg	50	☼	6020A	Total/NA
Barium	460		130	5.9	mg/Kg	50	☼	6020A	Total/NA
Cadmium	21		3.1	1.0	mg/Kg	50	☼	6020A	Total/NA
Calcium	220000		3100	370	mg/Kg	50	☼	6020A	Total/NA
Chromium	82		63	28	mg/Kg	50	☼	6020A	Total/NA
Cobalt	9.3	J	13	2.7	mg/Kg	50	☼	6020A	Total/NA
Copper	2500		63	6.3	mg/Kg	50	☼	6020A	Total/NA
Iron	140000		310	210	mg/Kg	50	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-17.030-031 (Continued) — Lab Sample ID: 160-12447-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	190		19	6.3	mg/Kg	50	☼	6020A	Total/NA
Magnesium	17000		3100	240	mg/Kg	50	☼	6020A	Total/NA
Manganese	880		31	4.8	mg/Kg	50	☼	6020A	Total/NA
Nickel	72		31	6.7	mg/Kg	50	☼	6020A	Total/NA
Potassium	700		630	190	mg/Kg	50	☼	6020A	Total/NA
Sodium	1000	J	1300	420	mg/Kg	50	☼	6020A	Total/NA
Zinc	470		310	84	mg/Kg	50	☼	6020A	Total/NA
Mercury	0.41		0.086	0.029	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1300		140	15	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1300		140	15	mg/Kg	1	☼	310.1	Total/NA
pH	7.40		0.101	0.101	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-17.033-036 — Lab Sample ID: 160-12447-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride - DL	1.4	J	10	1.0	mg/Kg	5	☼	9056A	Total/NA
Sulfate - DL2	2800		1000	100	mg/Kg	100	☼	9056A	Total/NA
Aluminum	6300	B	240	81	mg/Kg	50	☼	6020A	Total/NA
Barium	86	J	97	4.5	mg/Kg	50	☼	6020A	Total/NA
Calcium	33000		2400	280	mg/Kg	50	☼	6020A	Total/NA
Chromium	39	J	48	22	mg/Kg	50	☼	6020A	Total/NA
Cobalt	6.9	J	9.7	2.1	mg/Kg	50	☼	6020A	Total/NA
Copper	41	J	48	4.9	mg/Kg	50	☼	6020A	Total/NA
Iron	97000		240	160	mg/Kg	50	☼	6020A	Total/NA
Lead	92		15	4.8	mg/Kg	50	☼	6020A	Total/NA
Magnesium	3900		2400	180	mg/Kg	50	☼	6020A	Total/NA
Manganese	660		24	3.7	mg/Kg	50	☼	6020A	Total/NA
Nickel	24		24	5.2	mg/Kg	50	☼	6020A	Total/NA
Potassium	1000		480	150	mg/Kg	50	☼	6020A	Total/NA
Sodium	1700		970	320	mg/Kg	50	☼	6020A	Total/NA
Zinc	530		240	64	mg/Kg	50	☼	6020A	Total/NA
Mercury	0.059	J	0.064	0.021	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	920		100	11	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	920		100	11	mg/Kg	1	☼	310.1	Total/NA
pH	7.58		0.0995	0.0995	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-09.099-100
Date Collected: 06/17/15 13:14
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-1
Matrix: Solid
Percent Solids: 83.1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	920		30	3.0	mg/Kg	☼	07/01/15 16:54	07/10/15 04:56	5
Fluoride	1.5	J	6.0	0.60	mg/Kg	☼	07/01/15 16:54	07/10/15 04:56	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.9	0.55	mg/Kg	☼	06/26/15 16:05	06/29/15 18:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3400	B	26	8.8	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Antimony	0.71	J	2.6	0.34	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Arsenic	6.3		5.3	1.4	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Barium	160		11	0.50	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Beryllium	0.27	J	0.53	0.14	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Cadmium	0.71		0.26	0.085	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Calcium	11000		260	31	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Chromium	13		5.3	2.4	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Cobalt	4.3		1.1	0.23	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Copper	120		5.3	0.53	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Iron	12000		26	17	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Lead	140		1.6	0.53	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Magnesium	3200		260	20	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Manganese	130		2.6	0.41	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Nickel	14		2.6	0.57	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Potassium	670		53	16	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Selenium	2.6		2.6	0.84	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Silver	1.7		1.1	0.13	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Sodium	510		110	35	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Thallium	ND		2.6	0.80	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Vanadium	12		5.3	3.9	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Zinc	160		26	7.0	mg/Kg	☼	07/01/15 11:05	07/08/15 21:37	10
Tantalum	2.8	J	5.3	0.83	mg/Kg	☼	07/01/15 11:05	07/08/15 22:11	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND	F1	15	2.2	mg/Kg	☼	07/09/15 11:30	07/10/15 17:10	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.035	0.012	mg/Kg	☼	06/25/15 09:55	06/25/15 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	670		60	6.5	mg/Kg	☼	06/29/15 14:06	06/29/15 17:07	1
Bicarbonate Alkalinity as CaCO3	620		60	6.5	mg/Kg	☼	06/29/15 14:06	06/29/15 17:07	1
Carbonate Alkalinity as CaCO3	48	J	60	6.5	mg/Kg	☼	06/29/15 14:06	06/29/15 17:07	1
pH	7.62		0.0999	0.0999	SU		06/25/15 14:19	06/25/15 18:03	1

Client Sample ID: FEEBRIS1D-09.078-079
Date Collected: 06/17/15 13:00
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-2
Matrix: Solid
Percent Solids: 75.2

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**2.1**	**J**	6.7	0.67	mg/Kg	☼	07/01/15 16:54	07/10/15 06:19	5

Method: 9056A - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1400**		670	67	mg/Kg	☼	07/01/15 16:54	07/10/15 06:33	100

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		6.5	0.60	mg/Kg	☼	06/26/15 16:05	06/29/15 18:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5000**	**B**	160	53	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Antimony	ND		16	2.1	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Arsenic	ND		32	8.3	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Barium	**99**		64	3.0	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Beryllium	ND		3.2	0.83	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Cadmium	**0.65**	**J**	1.6	0.51	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Calcium	**6700**		1600	180	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Chromium	**56**		32	14	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Cobalt	**11**		6.4	1.4	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Copper	**88**		32	3.2	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Iron	**89000**		160	100	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Lead	**380**		9.5	3.2	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Magnesium	**2300**		1600	120	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Manganese	**580**		16	2.4	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Nickel	**100**		16	3.4	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Potassium	**1000**		320	95	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Selenium	ND		16	5.0	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Silver	ND		6.4	0.76	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Sodium	**3600**		640	210	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Thallium	ND		16	4.8	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Vanadium	ND		32	23	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Zinc	**310**		160	42	mg/Kg	☼	07/01/15 11:05	07/08/15 21:43	50
Tantalum	ND		32	5.0	mg/Kg	☼	07/01/15 11:05	07/08/15 22:15	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		81	12	mg/Kg	☼	07/09/15 11:30	07/10/15 17:40	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.60**		0.039	0.013	mg/Kg	☼	06/25/15 09:55	06/25/15 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**850**		66	7.2	mg/Kg	☼	06/29/15 14:06	06/29/15 17:34	1
Bicarbonate Alkalinity as CaCO3	**850**		66	7.2	mg/Kg	☼	06/29/15 14:06	06/29/15 17:34	1
Carbonate Alkalinity as CaCO3	ND		66	7.2	mg/Kg	☼	06/29/15 14:06	06/29/15 17:34	1
pH	**7.80**		0.0999	0.0999	SU		06/25/15 14:19	06/25/15 18:09	1

Client Sample ID: FEEBRIS1D-01.007-009
Date Collected: 06/22/15 10:07
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-3
Matrix: Solid
Percent Solids: 87.7

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.2		1.1	0.11	mg/Kg	☼	07/01/15 16:54	07/10/15 12:49	1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	150		28	2.8	mg/Kg	☼	07/01/15 16:54	07/10/15 07:15	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.2	J	5.6	0.53	mg/Kg	☼	06/26/15 16:05	06/29/15 18:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400	B	28	9.2	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Antimony	ND		2.8	0.36	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Arsenic	6.8		5.5	1.4	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Barium	160		11	0.52	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Beryllium	0.40	J	0.55	0.14	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Cadmium	0.28		0.28	0.088	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Calcium	44000		280	32	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Chromium	11		5.5	2.5	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Cobalt	6.8		1.1	0.24	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Copper	13		5.5	0.56	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Iron	19000		28	18	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Lead	9.4		1.7	0.55	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Magnesium	18000		280	21	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Manganese	1100		2.8	0.42	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Nickel	17		2.8	0.59	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Potassium	910		55	17	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Selenium	1.7	J	2.8	0.87	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Silver	ND		1.1	0.13	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Sodium	250		110	37	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Thallium	ND		2.8	0.84	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Vanadium	24		5.5	4.0	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Zinc	47		28	7.3	mg/Kg	☼	07/01/15 11:05	07/08/15 21:50	10
Tantalum	ND		5.5	0.86	mg/Kg	☼	07/01/15 11:05	07/08/15 22:19	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		12	1.9	mg/Kg	☼	07/09/15 11:30	07/10/15 17:44	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	J	0.033	0.011	mg/Kg	☼	06/25/15 09:55	06/25/15 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1000		57	6.1	mg/Kg	☼	06/29/15 14:06	06/29/15 17:44	1
Bicarbonate Alkalinity as CaCO3	950		57	6.1	mg/Kg	☼	06/29/15 14:06	06/29/15 17:44	1
Carbonate Alkalinity as CaCO3	68		57	6.1	mg/Kg	☼	06/29/15 14:06	06/29/15 17:44	1
pH	7.91		0.0999	0.0999	SU		06/25/15 14:19	06/25/15 18:12	1

Client Sample ID: FEEBRIS1D-01.024-027
Date Collected: 06/22/15 10:15
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-4
Matrix: Solid
Percent Solids: 84.6

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	480		30	3.0	mg/Kg	☼	07/01/15 16:54	07/10/15 07:43	5
Fluoride	43		5.9	0.59	mg/Kg	☼	07/01/15 16:54	07/10/15 07:43	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.8	0.54	mg/Kg	☼	06/26/15 16:05	06/29/15 18:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2800	B	26	8.6	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Antimony	0.49	J	2.6	0.33	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Arsenic	ND		5.1	1.3	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Barium	57		10	0.48	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Beryllium	0.14	J	0.51	0.13	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Cadmium	6.0		0.26	0.082	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Calcium	65000		260	30	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Chromium	51		5.1	2.3	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Cobalt	2.2		1.0	0.22	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Copper	60		5.1	0.52	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Iron	4400		26	17	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Lead	28		1.5	0.51	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Magnesium	8400		260	20	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Manganese	230		2.6	0.40	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Nickel	55		2.6	0.55	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Potassium	420		51	15	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Selenium	ND		2.6	0.81	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Silver	ND		1.0	0.12	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Sodium	510		100	34	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Thallium	ND		2.6	0.78	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Vanadium	23		5.1	3.8	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Zinc	420		26	6.8	mg/Kg	☼	07/01/15 11:05	07/08/15 21:57	10
Tantalum	1.4	J	5.1	0.80	mg/Kg	☼	07/01/15 11:05	07/08/15 22:24	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		13	1.9	mg/Kg	☼	07/09/15 11:30	07/10/15 17:49	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.035	0.012	mg/Kg	☼	06/25/15 09:55	06/25/15 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2800		59	6.4	mg/Kg	☼	06/29/15 14:06	06/29/15 17:53	1
Bicarbonate Alkalinity as CaCO3	2800		59	6.4	mg/Kg	☼	06/29/15 14:06	06/29/15 17:53	1
Carbonate Alkalinity as CaCO3	ND		59	6.4	mg/Kg	☼	06/29/15 14:06	06/29/15 17:53	1
pH	7.26		0.0999	0.0999	SU		06/25/15 14:19	06/25/15 18:14	1

Client Sample ID: FEEBRIS1D-02.027-030
Date Collected: 06/22/15 11:04
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-5
Matrix: Solid
Percent Solids: 40.9

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5100**		240	24	mg/Kg	☼	07/01/15 16:54	07/10/15 08:11	20
Fluoride	ND		49	4.9	mg/Kg	☼	07/01/15 16:54	07/10/15 08:11	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		12	1.1	mg/Kg	☼	06/26/15 16:05	06/29/15 18:29	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**47000**	**B**	55	18	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Antimony	**11**		5.5	0.72	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Arsenic	ND		11	2.9	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Barium	**78**		22	1.0	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Beryllium	ND		1.1	0.29	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Cadmium	**0.70**		0.55	0.18	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Calcium	**45000**		550	64	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Chromium	**300**		11	5.0	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Cobalt	**6.1**		2.2	0.47	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Copper	**90**		11	1.1	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Iron	**43000**		55	36	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Lead	**150**		3.3	1.1	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Magnesium	**4300**		550	42	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Manganese	**2400**		5.5	0.85	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Nickel	**18**		5.5	1.2	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Potassium	**3800**		110	33	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Selenium	ND		5.5	1.7	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Silver	ND		2.2	0.26	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Sodium	**2100**		220	73	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Thallium	ND		5.5	1.7	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Vanadium	ND		11	8.1	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Zinc	**1500**		55	15	mg/Kg	☼	07/01/15 11:05	07/08/15 22:04	10
Tantalum	ND		11	1.7	mg/Kg	☼	07/01/15 11:05	07/08/15 22:28	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		28	4.2	mg/Kg	☼	07/09/15 11:30	07/10/15 17:53	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.072	0.024	mg/Kg	☼	06/25/15 09:55	06/25/15 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**1200**		120	13	mg/Kg	☼	06/29/15 14:06	06/29/15 18:02	1
Bicarbonate Alkalinity as CaCO3	**1200**		120	13	mg/Kg	☼	06/29/15 14:06	06/29/15 18:02	1
Carbonate Alkalinity as CaCO3	ND		120	13	mg/Kg	☼	06/29/15 14:06	06/29/15 18:02	1
pH	**7.08**		0.0995	0.0995	SU		06/25/15 14:19	06/25/15 18:17	1

Client Sample ID: FEEBRIS1D-02.020-023
Date Collected: 06/22/15 11:20
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-6
Matrix: Solid
Percent Solids: 81.3

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	300	J	610	61	mg/Kg	☼	07/01/15 16:54	07/10/15 08:38	100

Method: 9056A - Anions, Ion Chromatography - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		12	1.2	mg/Kg	☼	07/01/15 16:54	07/10/15 13:03	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.1	J	6.0	0.56	mg/Kg	☼	06/26/15 16:05	06/29/15 18:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5200	B	29	9.8	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Antimony	ND		2.9	0.38	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Arsenic	8.5		5.9	1.5	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Barium	120		12	0.55	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Beryllium	0.30	J	0.59	0.15	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Cadmium	0.33		0.29	0.094	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Calcium	62000		290	34	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Chromium	10		5.9	2.6	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Cobalt	7.4		1.2	0.25	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Copper	13		5.9	0.59	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Iron	9900		29	19	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Lead	9.7		1.8	0.59	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Magnesium	14000		290	22	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Manganese	300		2.9	0.45	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Nickel	20		2.9	0.63	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Potassium	830		59	18	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Selenium	2.2	J	2.9	0.93	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Silver	ND		1.2	0.14	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Sodium	220		120	39	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Thallium	ND		2.9	0.89	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Vanadium	20		5.9	4.3	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Zinc	47		29	7.8	mg/Kg	☼	07/01/15 11:05	07/08/15 22:31	10
Tantalum	ND		5.9	0.92	mg/Kg	☼	07/01/15 11:05	07/08/15 22:32	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		14	2.2	mg/Kg	☼	07/09/15 11:30	07/10/15 17:57	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J	0.039	0.013	mg/Kg	☼	06/25/15 09:55	06/25/15 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1800		61	6.7	mg/Kg	☼	06/29/15 14:06	06/29/15 18:11	1
Bicarbonate Alkalinity as CaCO3	1700		61	6.7	mg/Kg	☼	06/29/15 14:06	06/29/15 18:11	1
Carbonate Alkalinity as CaCO3	150		61	6.7	mg/Kg	☼	06/29/15 14:06	06/29/15 18:11	1
pH	8.08		0.0999	0.0999	SU		06/25/15 14:19	06/25/15 18:20	1

Client Sample ID: FEEBRIS1D-02.036-037
Date Collected: 06/22/15 11:30
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-7
Matrix: Solid
Percent Solids: 78.0

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	38		32	3.2	mg/Kg	☼	07/01/15 16:54	07/10/15 09:06	5
Fluoride	2.4	J	6.4	0.64	mg/Kg	☼	07/01/15 16:54	07/10/15 09:06	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.2	J	6.3	0.59	mg/Kg	☼	06/26/15 16:05	06/29/15 18:40	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7800	B	29	9.8	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Antimony	ND		2.9	0.38	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Arsenic	5.6	J	5.9	1.5	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Barium	260		12	0.55	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Beryllium	0.49	J	0.59	0.15	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Cadmium	0.24	J	0.29	0.094	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Calcium	20000		290	34	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Chromium	12		5.9	2.6	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Cobalt	6.9		1.2	0.25	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Copper	17		5.9	0.59	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Iron	16000		29	19	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Lead	9.5		1.8	0.59	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Magnesium	7900		290	22	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Manganese	390		2.9	0.45	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Nickel	21		2.9	0.63	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Potassium	2200		59	18	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Selenium	1.5	J	2.9	0.93	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Silver	ND		1.2	0.14	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Sodium	390		120	39	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Thallium	ND		2.9	0.89	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Vanadium	24		5.9	4.3	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Zinc	61		29	7.8	mg/Kg	☼	07/01/15 11:05	07/08/15 22:37	10
Tantalum	ND		5.9	0.92	mg/Kg	☼	07/01/15 11:05	07/08/15 22:49	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		15	2.3	mg/Kg	☼	07/09/15 11:30	07/10/15 18:02	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	J	0.037	0.012	mg/Kg	☼	06/25/15 09:55	06/25/15 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2600		64	6.9	mg/Kg	☼	06/29/15 14:06	06/29/15 18:20	1
Bicarbonate Alkalinity as CaCO3	1900		64	6.9	mg/Kg	☼	06/29/15 14:06	06/29/15 18:20	1
Carbonate Alkalinity as CaCO3	720		64	6.9	mg/Kg	☼	06/29/15 14:06	06/29/15 18:20	1
pH	8.67		0.0999	0.0999	SU		06/25/15 14:19	06/25/15 18:23	1

Client Sample ID: FEEBRIS1D-18.013-014

Date Collected: 06/22/15 12:47
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-8

Matrix: Solid
Percent Solids: 90.1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.5	J	5.5	0.55	mg/Kg	☼	07/01/15 16:54	07/10/15 10:02	5

Method: 9056A - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1600		550	55	mg/Kg	☼	07/01/15 16:54	07/10/15 10:16	100

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.89	J	5.4	0.50	mg/Kg	☼	06/26/15 16:05	06/29/15 18:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4700	B	26	8.7	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Antimony	ND		2.6	0.34	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Arsenic	2.9	J	5.2	1.4	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Barium	47		10	0.49	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Beryllium	0.22	J	0.52	0.14	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Cadmium	0.34		0.26	0.083	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Calcium	260000		1300	150	mg/Kg	☼	07/01/15 11:05	07/09/15 16:58	50
Chromium	12		5.2	2.3	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Cobalt	3.3		1.0	0.22	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Copper	5.0	J	5.2	0.53	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Iron	8300		26	17	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Lead	3.8		1.6	0.52	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Magnesium	35000		260	20	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Manganese	160		2.6	0.40	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Nickel	11		2.6	0.56	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Potassium	710		52	16	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Selenium	1.1	J	2.6	0.82	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Silver	ND		1.0	0.13	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Sodium	300		100	35	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Thallium	ND		2.6	0.79	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Vanadium	12		5.2	3.8	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Zinc	38		26	6.9	mg/Kg	☼	07/01/15 11:05	07/08/15 22:44	10
Tantalum	ND		5.2	0.81	mg/Kg	☼	07/01/15 11:05	07/08/15 22:54	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		12	1.9	mg/Kg	☼	07/09/15 11:30	07/10/15 18:06	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.035	0.012	mg/Kg	☼	06/25/15 09:55	06/25/15 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	370		55	6.0	mg/Kg	☼	06/29/15 14:06	06/29/15 18:29	1
Bicarbonate Alkalinity as CaCO3	320		55	6.0	mg/Kg	☼	06/29/15 14:06	06/29/15 18:29	1
Carbonate Alkalinity as CaCO3	44	J	55	6.0	mg/Kg	☼	06/29/15 14:06	06/29/15 18:29	1
pH	7.94		0.100	0.100	SU		06/25/15 14:19	06/25/15 18:25	1

Client Sample ID: FEEBRIS1D-18.038-041
Date Collected: 06/22/15 12:56
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-9
Matrix: Solid
Percent Solids: 75.1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	120		33	3.3	mg/Kg	☼	07/01/15 16:54	07/10/15 10:30	5
Fluoride	1.8	J	6.7	0.67	mg/Kg	☼	07/01/15 16:54	07/10/15 10:30	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		6.5	0.60	mg/Kg	☼	06/26/15 16:05	06/29/15 18:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	120	B ^	6.3	2.1	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Antimony	0.20	J	0.63	0.082	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Arsenic	ND		1.3	0.33	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Barium	41		2.5	0.12	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Beryllium	ND		0.13	0.033	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Cadmium	2.0		0.063	0.020	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Calcium	4300		63	7.4	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Chromium	2.5		1.3	0.57	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Cobalt	0.18	J	0.25	0.054	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Copper	2.1		1.3	0.13	mg/Kg	☼	07/01/15 11:05	07/09/15 16:28	2
Iron	340		6.3	4.2	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Lead	10		0.38	0.13	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Magnesium	860		63	4.8	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Manganese	34		0.63	0.097	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Nickel	0.62	J	0.63	0.14	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Potassium	210		13	3.8	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Selenium	ND		0.63	0.20	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Silver	0.038	J	0.25	0.030	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Sodium	520		25	8.4	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Thallium	ND		0.63	0.19	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Vanadium	ND		1.3	0.93	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Zinc	12		6.3	1.7	mg/Kg	☼	07/01/15 11:05	07/09/15 17:05	2
Tantalum	ND		1.3	0.20	mg/Kg	☼	07/01/15 11:05	07/09/15 16:28	2

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	0.52	J	3.1	0.47	mg/Kg	☼	07/09/15 11:30	07/10/15 18:10	2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.043	0.014	mg/Kg	☼	06/25/15 09:55	06/25/15 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1900		66	7.2	mg/Kg	☼	06/29/15 14:06	06/29/15 18:38	1
Bicarbonate Alkalinity as CaCO3	1900		66	7.2	mg/Kg	☼	06/29/15 14:06	06/29/15 18:38	1
Carbonate Alkalinity as CaCO3	ND		66	7.2	mg/Kg	☼	06/29/15 14:06	06/29/15 18:38	1
pH	7.10		0.0997	0.0997	SU		06/25/15 14:19	06/25/15 18:28	1

Client Sample ID: FEEBRIS1D-18.044-046
Date Collected: 06/22/15 13:04
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-10
Matrix: Solid
Percent Solids: 81.9

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	55		30	3.0	mg/Kg	☼	07/01/15 16:54	07/10/15 10:58	5
Fluoride	2.7	J	6.1	0.61	mg/Kg	☼	07/01/15 16:54	07/10/15 10:58	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.3	J	6.0	0.56	mg/Kg	☼	06/26/15 16:05	06/29/15 18:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000	B	29	9.8	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Antimony	ND		2.9	0.38	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Arsenic	7.5		5.9	1.5	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Barium	210		12	0.55	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Beryllium	0.59		0.59	0.15	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Cadmium	0.52		0.29	0.094	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Calcium	14000		290	34	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Chromium	13		5.9	2.6	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Cobalt	8.0		1.2	0.25	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Copper	16		5.9	0.59	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Iron	21000		29	19	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Lead	14		1.8	0.59	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Magnesium	5400		290	22	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Manganese	2000		2.9	0.45	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Nickel	21		2.9	0.63	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Potassium	1500		59	18	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Selenium	2.7	J	2.9	0.93	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Silver	ND		1.2	0.14	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Sodium	490		120	39	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Thallium	ND		2.9	0.89	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Vanadium	25		5.9	4.3	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Zinc	63		29	7.8	mg/Kg	☼	07/01/15 11:06	07/08/15 22:57	10
Tantalum	ND		5.9	0.92	mg/Kg	☼	07/01/15 11:06	07/08/15 23:02	10

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		14	2.1	mg/Kg	☼	07/09/15 11:30	07/10/15 18:15	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	J	0.037	0.012	mg/Kg	☼	06/25/15 09:55	06/25/15 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1000		61	6.6	mg/Kg	☼	06/29/15 14:06	06/29/15 18:47	1
Bicarbonate Alkalinity as CaCO3	950		61	6.6	mg/Kg	☼	06/29/15 14:06	06/29/15 18:47	1
Carbonate Alkalinity as CaCO3	97		61	6.6	mg/Kg	☼	06/29/15 14:06	06/29/15 18:47	1
pH	7.87		0.100	0.100	SU		06/25/15 14:19	06/25/15 18:34	1

Client Sample ID: FEEBRIS1D-17.030-031
Date Collected: 06/22/15 14:56
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-11
Matrix: Solid
Percent Solids: 36.3

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.6	J	14	1.4	mg/Kg	☼	07/01/15 16:54	07/10/15 11:25	5

Method: 9056A - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6000		1400	140	mg/Kg	☼	07/01/15 16:54	07/10/15 11:39	100

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		14	1.3	mg/Kg	☼	06/26/15 16:05	06/29/15 19:00	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000	B	310	100	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Antimony	5.2	J	31	4.1	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Arsenic	ND		63	16	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Barium	460		130	5.9	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Beryllium	ND		6.3	1.6	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Cadmium	21		3.1	1.0	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Calcium	220000		3100	370	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Chromium	82		63	28	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Cobalt	9.3	J	13	2.7	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Copper	2500		63	6.3	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Iron	140000		310	210	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Lead	190		19	6.3	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Magnesium	17000		3100	240	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Manganese	880		31	4.8	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Nickel	72		31	6.7	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Potassium	700		630	190	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Selenium	ND		31	9.9	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Silver	ND		13	1.5	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Sodium	1000	J	1300	420	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Thallium	ND		31	9.5	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Vanadium	ND		63	46	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Zinc	470		310	84	mg/Kg	☼	07/01/15 11:09	07/08/15 23:04	50
Tantalum	ND		63	9.8	mg/Kg	☼	07/01/15 11:09	07/08/15 23:07	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		160	24	mg/Kg	☼	07/09/15 11:30	07/10/15 18:19	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.086	0.029	mg/Kg	☼	06/25/15 09:55	06/25/15 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1300		140	15	mg/Kg	☼	06/29/15 14:06	06/29/15 18:56	1
Bicarbonate Alkalinity as CaCO3	1300		140	15	mg/Kg	☼	06/29/15 14:06	06/29/15 18:56	1
Carbonate Alkalinity as CaCO3	ND		140	15	mg/Kg	☼	06/29/15 14:06	06/29/15 18:56	1
pH	7.40		0.101	0.101	SU		06/25/15 14:19	06/25/15 18:36	1

Client Sample ID: FEEBRIS1D-17.033-036

Date Collected: 06/22/15 15:03
Date Received: 06/24/15 08:50

Lab Sample ID: 160-12447-12

Matrix: Solid
Percent Solids: 49.8

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**	**J**	10	1.0	mg/Kg	☼	07/01/15 17:10	07/10/15 11:53	5

Method: 9056A - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2800**		1000	100	mg/Kg	☼	07/01/15 17:10	07/10/15 12:07	100

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		9.9	0.93	mg/Kg	☼	06/26/15 16:05	06/29/15 19:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6300**	**B**	240	81	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Antimony	ND		24	3.1	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Arsenic	ND		48	13	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Barium	**86**	**J**	97	4.5	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Beryllium	ND		4.8	1.3	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Cadmium	ND		2.4	0.77	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Calcium	**33000**		2400	280	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Chromium	**39**	**J**	48	22	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Cobalt	**6.9**	**J**	9.7	2.1	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Copper	**41**	**J**	48	4.9	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Iron	**97000**		240	160	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Lead	**92**		15	4.8	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Magnesium	**3900**		2400	180	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Manganese	**660**		24	3.7	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Nickel	**24**		24	5.2	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Potassium	**1000**		480	150	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Selenium	ND		24	7.6	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Silver	ND		9.7	1.2	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Sodium	**1700**		970	320	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Thallium	ND		24	7.4	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Vanadium	ND		48	36	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Zinc	**530**		240	64	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50
Tantalum	ND		48	7.5	mg/Kg	☼	07/01/15 11:10	07/08/15 23:11	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		110	17	mg/Kg	☼	07/09/15 11:30	07/10/15 18:36	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**	**J**	0.064	0.021	mg/Kg	☼	06/25/15 09:55	06/25/15 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**920**		100	11	mg/Kg	☼	06/29/15 14:06	06/29/15 19:05	1
Bicarbonate Alkalinity as CaCO3	**920**		100	11	mg/Kg	☼	06/29/15 14:06	06/29/15 19:05	1
Carbonate Alkalinity as CaCO3	ND		100	11	mg/Kg	☼	06/29/15 14:06	06/29/15 19:05	1
pH	**7.58**		0.0995	0.0995	SU		06/25/15 14:19	06/25/15 18:39	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-198300/1-A
Matrix: Solid
Analysis Batch: 199475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 198300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.50	mg/Kg		07/01/15 16:54	07/10/15 04:28	1
Fluoride	ND		0.99	0.099	mg/Kg		07/01/15 16:54	07/10/15 04:28	1

Lab Sample ID: LCS 160-198300/2-A
Matrix: Solid
Analysis Batch: 199475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 198300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	79.6	76.2		mg/Kg		96	80 - 120
Fluoride	9.95	10.1		mg/Kg		101	80 - 120

Method: 9056A - Anions, Ion Chromatography - DL

Lab Sample ID: 160-12447-1 MS
Matrix: Solid
Analysis Batch: 199475

Client Sample ID: FEEBRIS1D-09.099-100
Prep Type: Total/NA
Prep Batch: 198300

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	920		240	1170		mg/Kg	☼	104	75 - 121
Fluoride - DL	1.5	J	120	129		mg/Kg	☼	106	80 - 123

Lab Sample ID: 160-12447-1 DU
Matrix: Solid
Analysis Batch: 199475

Client Sample ID: FEEBRIS1D-09.099-100
Prep Type: Total/NA
Prep Batch: 198300

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	920		930		mg/Kg	☼	1	30
Fluoride - DL	1.5	J	1.41	J	mg/Kg	☼	9	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-66701/1-A
Matrix: Solid
Analysis Batch: 66857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		4.9	0.46	mg/Kg		06/26/15 16:05	06/29/15 17:10	1

Lab Sample ID: LCS 550-66701/2-A
Matrix: Solid
Analysis Batch: 66857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	49.7	53.1		mg/Kg		107	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 550-66701/3-A
Matrix: Solid
Analysis Batch: 66857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	48.7	52.8		mg/Kg		108	80 - 120	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-198233/1-A
Matrix: Solid
Analysis Batch: 199360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 198233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.44	J	4.6	1.5	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Antimony	ND		0.46	0.060	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Arsenic	ND		0.92	0.24	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Barium	ND		1.8	0.087	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Beryllium	ND		0.092	0.024	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Cadmium	ND		0.046	0.015	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Calcium	ND		46	5.4	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Chromium	ND		0.92	0.41	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Cobalt	ND		0.18	0.040	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Copper	ND		0.92	0.093	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Iron	ND		4.6	3.0	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Lead	ND		0.28	0.092	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Magnesium	ND		46	3.5	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Manganese	ND		0.46	0.071	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Nickel	ND		0.46	0.099	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Potassium	ND		9.2	2.8	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Selenium	ND		0.46	0.15	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Silver	ND		0.18	0.022	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Sodium	ND		18	6.1	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Thallium	ND		0.46	0.14	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Vanadium	ND		0.92	0.68	mg/Kg		07/01/15 11:05	07/08/15 21:23	2
Zinc	ND		4.6	1.2	mg/Kg		07/01/15 11:05	07/08/15 21:23	2

Lab Sample ID: MB 160-198233/1-A
Matrix: Solid
Analysis Batch: 199347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 198233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tantalum	ND		0.92	0.14	mg/Kg		07/01/15 11:05	07/08/15 21:53	2

Lab Sample ID: LCS 160-198233/4-A
Matrix: Solid
Analysis Batch: 199347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 198233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	168	145		mg/Kg		86	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-198233/2-A
Matrix: Solid
Analysis Batch: 199360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 198233

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	8050		mg/Kg		99.9	39.5 - 160.0
Antimony	94.0	61.0		mg/Kg		64.9	22.8 - 257.4
Arsenic	113	120		mg/Kg		106.0	69.7 - 142.5
Barium	155	170		mg/Kg		109.6	72.9 - 127.1
Beryllium	109	110		mg/Kg		101.3	74.7 - 124.8
Cadmium	67.5	70.8		mg/Kg		104.9	73.2 - 126.8
Calcium	5850	5960		mg/Kg		101.8	73.7 - 126.5
Chromium	164	173		mg/Kg		105.7	70.7 - 129.9
Cobalt	100	112		mg/Kg		112.2	74.4 - 126.0
Copper	128	130		mg/Kg		101.7	75.2 - 125.8
Iron	15200	17000		mg/Kg		112.0	37.4 - 162.5
Lead	90.1	93.9		mg/Kg		104.2	70.1 - 129.9
Magnesium	2790	3050		mg/Kg		109.5	65.2 - 135.1
Manganese	363	437		mg/Kg		120.4	75.8 - 124.5
Nickel	89.3	97.9		mg/Kg		109.6	72.0 - 127.7
Potassium	2770	2890		mg/Kg		104.5	61.7 - 138.3
Selenium	156	174		mg/Kg		111.7	67.3 - 132.1
Silver	52.6	55.2		mg/Kg		104.9	66.7 - 133.5
Sodium	686	676		mg/Kg		98.5	55.8 - 144.2
Thallium	116	134		mg/Kg		115.5	67.4 - 131.9
Vanadium	73.0	75.7		mg/Kg		103.7	59.7 - 139.7
Zinc	168	183		mg/Kg		109.2	69.0 - 131.5

Lab Sample ID: MB 160-199406/1-A
Matrix: Solid
Analysis Batch: 199709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		2.2	0.34	mg/Kg		07/09/15 11:30	07/10/15 17:01	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-199406/2-A
Matrix: Solid
Analysis Batch: 199709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	4.39	3.82		mg/Kg		87	80 - 120

Method: 6020A - Metals (ICP/MS) - RE

Lab Sample ID: 160-12447-1 MS
Matrix: Solid
Analysis Batch: 199709

Client Sample ID: FEEBRIS1D-09.099-100
Prep Type: Total/NA
Prep Batch: 199406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium - RE	ND	F1	5.14	4.24	J	mg/Kg	☼	83	75 - 125

Lab Sample ID: 160-12447-1 MSD
Matrix: Solid
Analysis Batch: 199709

Client Sample ID: FEEBRIS1D-09.099-100
Prep Type: Total/NA
Prep Batch: 199406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium - RE	ND	F1	5.89	3.59	J F1	mg/Kg	☼	61	75 - 125	17	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-197300/1-A
Matrix: Solid
Analysis Batch: 197530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 197300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.010	mg/Kg		06/25/15 09:55	06/25/15 15:53	1

Lab Sample ID: LCSSRM 160-197300/2-A
Matrix: Solid
Analysis Batch: 197530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 197300

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.37	6.39		mg/Kg		76.3	51.3 - 148.1

Lab Sample ID: 160-12447-3 MS
Matrix: Solid
Analysis Batch: 197530

Client Sample ID: FEEBRIS1D-01.007-009
Prep Type: Total/NA
Prep Batch: 197300

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.027	J	0.912	0.855		mg/Kg	☼	91	80 - 120

Lab Sample ID: 160-12447-3 MSD
Matrix: Solid
Analysis Batch: 197530

Client Sample ID: FEEBRIS1D-01.007-009
Prep Type: Total/NA
Prep Batch: 197300

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.027	J	0.828	0.782		mg/Kg	☼	91	80 - 120	9	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-197813/1-A
Matrix: Solid
Analysis Batch: 197838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 197813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	ND		50	5.4	mg/Kg		06/29/15 14:06	06/29/15 16:40	1
Bicarbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		06/29/15 14:06	06/29/15 16:40	1
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		06/29/15 14:06	06/29/15 16:40	1

Lab Sample ID: HLCS 160-197813/3-A
Matrix: Solid
Analysis Batch: 197838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 197813

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	3980	3680		mg/Kg		93	90 - 110
Bicarbonate Alkalinity as CaCO3	3980	3680		mg/Kg		93	90 - 110

Lab Sample ID: LCS 160-197813/2-A
Matrix: Solid
Analysis Batch: 197838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 197813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	1990	1830		mg/Kg		92	90 - 110
Bicarbonate Alkalinity as CaCO3	1990	1830		mg/Kg		92	90 - 110

Lab Sample ID: 160-12447-1 MS
Matrix: Solid
Analysis Batch: 197838

Client Sample ID: FEEBRIS1D-09.099-100
Prep Type: Total/NA
Prep Batch: 197813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	670		1200	1610		mg/Kg	☼	78	75 - 125
Bicarbonate Alkalinity as CaCO3	620		1200	1610		mg/Kg	☼	82	75 - 125

Lab Sample ID: 160-12447-1 DU
Matrix: Solid
Analysis Batch: 197838

Client Sample ID: FEEBRIS1D-09.099-100
Prep Type: Total/NA
Prep Batch: 197813

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	670		673		mg/Kg	☼	0.3	30
Bicarbonate Alkalinity as CaCO3	620		613		mg/Kg	☼	2	30
Carbonate Alkalinity as CaCO3	48	J	60.1		mg/Kg	☼	23	30

Method: 9045D - pH

Lab Sample ID: 160-12447-1 DU
Matrix: Solid
Analysis Batch: 197379

Client Sample ID: FEEBRIS1D-09.099-100
Prep Type: Total/NA
Prep Batch: 197347

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.62		7.644		SU		0.3	5

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12447-1

Method: 9045D - pH (Continued)

Lab Sample ID: LCS 160-197379/5
Matrix: Solid
Analysis Batch: 197379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	6.970		SU		100	99.0 - 101.0

HPLC/IC

Prep Batch: 198300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1 - DL	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-1 DU - DL	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-1 MS - DL	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-2 - DL2	FEEBRIS1D-09.078-079	Total/NA	Solid	DILeach_Prep	
160-12447-2 - DL	FEEBRIS1D-09.078-079	Total/NA	Solid	DILeach_Prep	
160-12447-3 - DL	FEEBRIS1D-01.007-009	Total/NA	Solid	DILeach_Prep	
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	DILeach_Prep	
160-12447-4 - DL	FEEBRIS1D-01.024-027	Total/NA	Solid	DILeach_Prep	
160-12447-5 - DL	FEEBRIS1D-02.027-030	Total/NA	Solid	DILeach_Prep	
160-12447-6 - DL	FEEBRIS1D-02.020-023	Total/NA	Solid	DILeach_Prep	
160-12447-6 - DL3	FEEBRIS1D-02.020-023	Total/NA	Solid	DILeach_Prep	
160-12447-7 - DL	FEEBRIS1D-02.036-037	Total/NA	Solid	DILeach_Prep	
160-12447-8 - DL	FEEBRIS1D-18.013-014	Total/NA	Solid	DILeach_Prep	
160-12447-8 - DL2	FEEBRIS1D-18.013-014	Total/NA	Solid	DILeach_Prep	
160-12447-9 - DL	FEEBRIS1D-18.038-041	Total/NA	Solid	DILeach_Prep	
160-12447-10 - DL	FEEBRIS1D-18.044-046	Total/NA	Solid	DILeach_Prep	
160-12447-11 - DL	FEEBRIS1D-17.030-031	Total/NA	Solid	DILeach_Prep	
160-12447-11 - DL2	FEEBRIS1D-17.030-031	Total/NA	Solid	DILeach_Prep	
160-12447-12 - DL	FEEBRIS1D-17.033-036	Total/NA	Solid	DILeach_Prep	
160-12447-12 - DL2	FEEBRIS1D-17.033-036	Total/NA	Solid	DILeach_Prep	
LCS 160-198300/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-198300/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 199475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1 - DL	FEEBRIS1D-09.099-100	Total/NA	Solid	9056A	198300
160-12447-1 DU - DL	FEEBRIS1D-09.099-100	Total/NA	Solid	9056A	198300
160-12447-1 MS - DL	FEEBRIS1D-09.099-100	Total/NA	Solid	9056A	198300
160-12447-2 - DL	FEEBRIS1D-09.078-079	Total/NA	Solid	9056A	198300
160-12447-2 - DL2	FEEBRIS1D-09.078-079	Total/NA	Solid	9056A	198300
160-12447-3 - DL	FEEBRIS1D-01.007-009	Total/NA	Solid	9056A	198300
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	9056A	198300
160-12447-4 - DL	FEEBRIS1D-01.024-027	Total/NA	Solid	9056A	198300
160-12447-5 - DL	FEEBRIS1D-02.027-030	Total/NA	Solid	9056A	198300
160-12447-6 - DL	FEEBRIS1D-02.020-023	Total/NA	Solid	9056A	198300
160-12447-6 - DL3	FEEBRIS1D-02.020-023	Total/NA	Solid	9056A	198300
160-12447-7 - DL	FEEBRIS1D-02.036-037	Total/NA	Solid	9056A	198300
160-12447-8 - DL	FEEBRIS1D-18.013-014	Total/NA	Solid	9056A	198300
160-12447-8 - DL2	FEEBRIS1D-18.013-014	Total/NA	Solid	9056A	198300
160-12447-9 - DL	FEEBRIS1D-18.038-041	Total/NA	Solid	9056A	198300
160-12447-10 - DL	FEEBRIS1D-18.044-046	Total/NA	Solid	9056A	198300
160-12447-11 - DL	FEEBRIS1D-17.030-031	Total/NA	Solid	9056A	198300
160-12447-11 - DL2	FEEBRIS1D-17.030-031	Total/NA	Solid	9056A	198300
160-12447-12 - DL	FEEBRIS1D-17.033-036	Total/NA	Solid	9056A	198300
160-12447-12 - DL2	FEEBRIS1D-17.033-036	Total/NA	Solid	9056A	198300
LCS 160-198300/2-A	Lab Control Sample	Total/NA	Solid	9056A	198300
MB 160-198300/1-A	Method Blank	Total/NA	Solid	9056A	198300

Metals

Prep Batch: 66701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	3050B	
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	3050B	
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	3050B	
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	3050B	
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	3050B	
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	3050B	
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	3050B	
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	3050B	
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	3050B	
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	3050B	
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	3050B	
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	3050B	
LCS 550-66701/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-66701/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 550-66701/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 66857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	6010B	66701
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	6010B	66701
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	6010B	66701
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	6010B	66701
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	6010B	66701
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	6010B	66701
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	6010B	66701
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	6010B	66701
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	6010B	66701
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	6010B	66701
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	6010B	66701
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	6010B	66701
LCS 550-66701/2-A	Lab Control Sample	Total/NA	Solid	6010B	66701
LCSD 550-66701/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	66701
MB 550-66701/1-A	Method Blank	Total/NA	Solid	6010B	66701

Prep Batch: 197300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	7471B	
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	7471B	
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	7471B	
160-12447-3 MS	FEEBRIS1D-01.007-009	Total/NA	Solid	7471B	
160-12447-3 MSD	FEEBRIS1D-01.007-009	Total/NA	Solid	7471B	
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	7471B	
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	7471B	
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	7471B	
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	7471B	
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	7471B	
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	7471B	
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	7471B	
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	7471B	
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	7471B	
LCSSRM 160-197300/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 197300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-197300/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 197530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	7471B	197300
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	7471B	197300
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	7471B	197300
160-12447-3 MS	FEEBRIS1D-01.007-009	Total/NA	Solid	7471B	197300
160-12447-3 MSD	FEEBRIS1D-01.007-009	Total/NA	Solid	7471B	197300
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	7471B	197300
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	7471B	197300
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	7471B	197300
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	7471B	197300
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	7471B	197300
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	7471B	197300
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	7471B	197300
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	7471B	197300
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	7471B	197300
LCSSRM 160-197300/2-A	Lab Control Sample	Total/NA	Solid	7471B	197300
MB 160-197300/1-A	Method Blank	Total/NA	Solid	7471B	197300

Prep Batch: 198233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	3050B	
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	3050B	
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	3050B	
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	3050B	
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	3050B	
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	3050B	
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	3050B	
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	3050B	
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	3050B	
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	3050B	
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	3050B	
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	3050B	
LCS 160-198233/4-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-198233/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-198233/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 199347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	6020A	198233
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	6020A	198233
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	6020A	198233
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	6020A	198233
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	6020A	198233
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	6020A	198233
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	6020A	198233
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	6020A	198233
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	6020A	198233
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	6020A	198233

Metals (Continued)

Analysis Batch: 199347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	6020A	198233
LCS 160-198233/4-A	Lab Control Sample	Total/NA	Solid	6020A	198233
MB 160-198233/1-A	Method Blank	Total/NA	Solid	6020A	198233

Analysis Batch: 199360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	6020A	198233
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	6020A	198233
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	6020A	198233
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	6020A	198233
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	6020A	198233
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	6020A	198233
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	6020A	198233
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	6020A	198233
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	6020A	198233
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	6020A	198233
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	6020A	198233
LCSSRM 160-198233/2-A	Lab Control Sample	Total/NA	Solid	6020A	198233
MB 160-198233/1-A	Method Blank	Total/NA	Solid	6020A	198233

Prep Batch: 199406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1 - RE	FEEBRIS1D-09.099-100	Total/NA	Solid	3050B	
160-12447-1 MS - RE	FEEBRIS1D-09.099-100	Total/NA	Solid	3050B	
160-12447-1 MSD - RE	FEEBRIS1D-09.099-100	Total/NA	Solid	3050B	
160-12447-2 - RE	FEEBRIS1D-09.078-079	Total/NA	Solid	3050B	
160-12447-3 - RE	FEEBRIS1D-01.007-009	Total/NA	Solid	3050B	
160-12447-4 - RE	FEEBRIS1D-01.024-027	Total/NA	Solid	3050B	
160-12447-5 - RE	FEEBRIS1D-02.027-030	Total/NA	Solid	3050B	
160-12447-6 - RE	FEEBRIS1D-02.020-023	Total/NA	Solid	3050B	
160-12447-7 - RE	FEEBRIS1D-02.036-037	Total/NA	Solid	3050B	
160-12447-8 - RE	FEEBRIS1D-18.013-014	Total/NA	Solid	3050B	
160-12447-9 - RE	FEEBRIS1D-18.038-041	Total/NA	Solid	3050B	
160-12447-10 - RE	FEEBRIS1D-18.044-046	Total/NA	Solid	3050B	
160-12447-11 - RE	FEEBRIS1D-17.030-031	Total/NA	Solid	3050B	
160-12447-12 - RE	FEEBRIS1D-17.033-036	Total/NA	Solid	3050B	
LCS 160-199406/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-199406/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 199583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	6020A	198233

Analysis Batch: 199588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	6020A	198233
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	6020A	198233

Analysis Batch: 199709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1 - RE	FEEBRIS1D-09.099-100	Total/NA	Solid	6020A	199406

Metals (Continued)

Analysis Batch: 199709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1 MS - RE	FEEBRIS1D-09.099-100	Total/NA	Solid	6020A	199406
160-12447-1 MSD - RE	FEEBRIS1D-09.099-100	Total/NA	Solid	6020A	199406
160-12447-2 - RE	FEEBRIS1D-09.078-079	Total/NA	Solid	6020A	199406
160-12447-3 - RE	FEEBRIS1D-01.007-009	Total/NA	Solid	6020A	199406
160-12447-4 - RE	FEEBRIS1D-01.024-027	Total/NA	Solid	6020A	199406
160-12447-5 - RE	FEEBRIS1D-02.027-030	Total/NA	Solid	6020A	199406
160-12447-6 - RE	FEEBRIS1D-02.020-023	Total/NA	Solid	6020A	199406
160-12447-7 - RE	FEEBRIS1D-02.036-037	Total/NA	Solid	6020A	199406
160-12447-8 - RE	FEEBRIS1D-18.013-014	Total/NA	Solid	6020A	199406
160-12447-9 - RE	FEEBRIS1D-18.038-041	Total/NA	Solid	6020A	199406
160-12447-10 - RE	FEEBRIS1D-18.044-046	Total/NA	Solid	6020A	199406
160-12447-11 - RE	FEEBRIS1D-17.030-031	Total/NA	Solid	6020A	199406
160-12447-12 - RE	FEEBRIS1D-17.033-036	Total/NA	Solid	6020A	199406
LCS 160-199406/2-A	Lab Control Sample	Total/NA	Solid	6020A	199406
MB 160-199406/1-A	Method Blank	Total/NA	Solid	6020A	199406

General Chemistry

Analysis Batch: 197260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	Moisture	
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	Moisture	
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	Moisture	
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	Moisture	
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	Moisture	
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	Moisture	
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	Moisture	
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	Moisture	
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	Moisture	
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	Moisture	
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	Moisture	
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	Moisture	

Prep Batch: 197347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-1 DU	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	DILeach_Prep	
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	DILeach_Prep	
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	DILeach_Prep	
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	DILeach_Prep	
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	DILeach_Prep	
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	DILeach_Prep	
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	DILeach_Prep	
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	DILeach_Prep	
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	DILeach_Prep	
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	DILeach_Prep	
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	DILeach_Prep	

General Chemistry (Continued)

Analysis Batch: 197379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	9045D	197347
160-12447-1 DU	FEEBRIS1D-09.099-100	Total/NA	Solid	9045D	197347
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	9045D	197347
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	9045D	197347
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	9045D	197347
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	9045D	197347
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	9045D	197347
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	9045D	197347
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	9045D	197347
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	9045D	197347
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	9045D	197347
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	9045D	197347
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	9045D	197347
LCS 160-197379/5	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 197813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-1 DU	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-1 MS	FEEBRIS1D-09.099-100	Total/NA	Solid	DILeach_Prep	
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	DILeach_Prep	
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	DILeach_Prep	
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	DILeach_Prep	
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	DILeach_Prep	
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	DILeach_Prep	
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	DILeach_Prep	
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	DILeach_Prep	
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	DILeach_Prep	
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	DILeach_Prep	
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	DILeach_Prep	
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	DILeach_Prep	
HLCS 160-197813/3-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
LCS 160-197813/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-197813/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 197838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12447-1	FEEBRIS1D-09.099-100	Total/NA	Solid	310.1	197813
160-12447-1 DU	FEEBRIS1D-09.099-100	Total/NA	Solid	310.1	197813
160-12447-1 MS	FEEBRIS1D-09.099-100	Total/NA	Solid	310.1	197813
160-12447-2	FEEBRIS1D-09.078-079	Total/NA	Solid	310.1	197813
160-12447-3	FEEBRIS1D-01.007-009	Total/NA	Solid	310.1	197813
160-12447-4	FEEBRIS1D-01.024-027	Total/NA	Solid	310.1	197813
160-12447-5	FEEBRIS1D-02.027-030	Total/NA	Solid	310.1	197813
160-12447-6	FEEBRIS1D-02.020-023	Total/NA	Solid	310.1	197813
160-12447-7	FEEBRIS1D-02.036-037	Total/NA	Solid	310.1	197813
160-12447-8	FEEBRIS1D-18.013-014	Total/NA	Solid	310.1	197813
160-12447-9	FEEBRIS1D-18.038-041	Total/NA	Solid	310.1	197813
160-12447-10	FEEBRIS1D-18.044-046	Total/NA	Solid	310.1	197813
160-12447-11	FEEBRIS1D-17.030-031	Total/NA	Solid	310.1	197813
160-12447-12	FEEBRIS1D-17.033-036	Total/NA	Solid	310.1	197813

General Chemistry (Continued)

Analysis Batch: 197838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 160-197813/3-A	Lab Control Sample	Total/NA	Solid	310.1	197813
LCS 160-197813/2-A	Lab Control Sample	Total/NA	Solid	310.1	197813
MB 160-197813/1-A	Method Blank	Total/NA	Solid	310.1	197813

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-12612-1
Client Project/Site: West Lake Landfill
Revision: 1

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
8/13/2015 4:57:50 PM

Erika Gish, Project Manager II
(314)298-8566
erika.gish@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-12612-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-12612-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Revision 1: The report was revised to report Fluoride from the original run per client requirements. Due to lab error it was not initially reported.

RECEIPT

The samples were received on 7/6/2015 2:47 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4º C.

TOTAL METALS (ICP)

Samples FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 07/08/2015 and analyzed on 07/09/2015.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 160-12612-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

METALS (ICPMS)

Samples FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 07/13/2015 and analyzed on 07/15/2015, 07/16/2015 and 07/17/2015.

Analytical Batch 160-200552

The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9), DUPLICATE # 1 (160-12612-10), (160-12612-B-1-B MS), (160-12612-B-1-C MSD) and (160-12612-B-1-A SD). Elevated reporting limits (RLs) are provided.

Aluminum was detected in method blank MB 160-199754/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged.

Due to the high concentration of Magnesium, Manganese, Aluminum, Barium and Iron, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-199754 and analytical batch 160-200552 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike and/or matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-199754 and analytical batch 160-200552 were outside control limits for Copper, Potassium, Antimony and Zinc. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Analytical Batch 160-200645

The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9), DUPLICATE # 1 (160-12612-10), (160-12612-B-1-B MS), (160-12612-B-1-C MSD) and (160-12612-B-1-A SD). Elevated reporting limits (RLs) are provided.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-199754 and analytical batch 160-200645 were outside control limits for tantalum. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The initial calibration verification (ICV) result for batch 160-200645 was above the upper control limit for niobium. Sample results were non-detects, and have been reported as qualified data. (ICV 160-200645/5)

Analytical Batch 160-200941

The following samples was diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9), DUPLICATE # 1 (160-12612-10), (160-12612-B-1-B MS), (160-12612-B-1-C MSD) and (160-12612-B-1-A SD). Elevated reporting limits (RLs) are provided.

The low level continuing calibration verification (CCVL) associated with batch 160-200941 recovered below the control limit for Calcium. The samples associated with this CCVL were at such high levels as to make the CCVL unnecessary; therefore, the data have been reported. (CCVL 160-200941/16), (CCVL 160-200941/24) and (CCVL 160-200941/37)

Due to the high concentration of Calcium the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-199754 and analytical batch 160-200941 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Job ID: 160-12612-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The matrix spike (MS) recovery for preparation batch 160-199754 and analytical batch 160-200941 were outside control limits for Silver. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY

Samples FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 07/08/2015.

Sample FEEBRIS1D-15.077-080 (160-12612-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY

Samples FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10) were analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared on 07/09/2015 and analyzed on 07/10/2015.

The following sample from Alkalinity batch 199649 was received by the lab outside of holding time: DUPLICATE # 1 (160-12612-10).

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 160-199469/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged.

The matrix spike (MS) recovery for the following sample associated with 160-199649 was outside control limits: (160-12612-B-4-K MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Samples FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10) were analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 07/07/2015.

The following sample from pH batch 160-198992 was received outside of holding time: DUPLICATE # 1 (160-12612-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY

Samples FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10) were analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 07/14/2015 and analyzed on 07/16/2015.

The following samples were diluted to bring the concentrations of target analytes within the calibration range in Anion batch 200397: FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062

Job ID: 160-12612-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

(160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 200397 were analyzed at dilution to start, based on the target analyte list of Chloride and Sulfate: FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10). Later, it was discovered that Chloride was not a target of interest, and instead Fluoride should have been logged in. As these samples were analyzed at dilution to start for Chloride, these samples are all reported below the adjusted reporting limit (RL) for Fluoride, with the exception of samples 12612-3 and 12612-8, which did have results for Fluoride over the RL at dilution.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples FEEBRIS1D-3.028-029 (160-12612-1), FEEBRIS1D-3.041-043 (160-12612-2), DUPLICATE # 2 (160-12612-3), FEEBRIS1D-12.061-062 (160-12612-4), FEEBRIS1D-12.074-075 (160-12612-5), FEEBRIS1D-15.077-080 (160-12612-6), FEEBRIS1D-15.085-086 (160-12612-7), FEEBRIS1D-11.085-086 (160-12612-8), FEEBRIS1D-11.087-088 (160-12612-9) and DUPLICATE # 1 (160-12612-10) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/07/2015.

The following samples could not be thoroughly homogenized before sub-sampling was performed due to sample matrix. FEEBRIS1D-12.074-075 (160-12612-5) and (160-12612-A-5 DU). The sample was small rocks and twigs.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/6/15	COC No: 160-2800-1326.3
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			Job / SDG No.:
Project Number: 16002280	☐ 2 days			
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B Moisture - Moisture	6010B - Scandium
			Preservation code					N	N	N	N	N
FEEBRIS1D-3.028-029	7/6/15	1126	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-3.041-043	7/6/15	1309	G	S	3			✓	✓	✓	✓	✓
DUPLICATE #2	7/6/15	1309	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-12.061-062	7/6/15	1007	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-12.074-075	7/6/15	1030	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-15.077-080	7/2/15	1550	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-15.085-086	7/2/15	1522	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-11.085-086	7/2/15	1026	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-11.087-088	7/2/15	1040	G	S	3			✓	✓	✓	✓	✓
DUPLICATE #1	6/12/15	1415	G	S	3			✓	✓	✓	✓	✓

Sample Specific Notes:

160-12612 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: FEI	Date/Time: 7/6/15 1447	Received by:	Company: TA STL	Date/Time: 7-6-15 1447
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12612-1

Login Number: 12612
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12612-1

Login Number: 12612
List Number: 2
Creator: Shoemaker, Cory M

List Source: TestAmerica Phoenix
List Creation: 07/08/15 11:20 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12612-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6010B	Metals (ICP)	SW846	TAL PHX
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12612-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-12612-1	FEEBRIS1D-3.028-029	Solid	07/06/15 11:26	07/06/15 14:47
160-12612-2	FEEBRIS1D-3.041-043	Solid	07/06/15 13:09	07/06/15 14:47
160-12612-3	DUPLICATE # 2	Solid	07/06/15 13:09	07/06/15 14:47
160-12612-4	FEEBRIS1D-12.061-062	Solid	07/06/15 10:07	07/06/15 14:47
160-12612-5	FEEBRIS1D-12.074-075	Solid	07/06/15 10:30	07/06/15 14:47
160-12612-6	FEEBRIS1D-15.077-080	Solid	07/02/15 15:50	07/06/15 14:47
160-12612-7	FEEBRIS1D-15.085-086	Solid	07/02/15 15:22	07/06/15 14:47
160-12612-8	FEEBRIS1D-11.085-086	Solid	07/02/15 10:26	07/06/15 14:47
160-12612-9	FEEBRIS1D-11.087-088	Solid	07/02/15 10:40	07/06/15 14:47
160-12612-10	DUPLICATE # 1	Solid	06/12/15 14:15	07/06/15 14:47

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12612-1

Client Sample ID: FEEBRIS1D-3.028-029 — Lab Sample ID: 160-12612-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	170		29	2.9	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	8.5		5.8	0.58	mg/Kg	5	☼	9056A	Total/NA
Aluminum	5400	B	26	8.8	mg/Kg	10	☼	6020A	Total/NA
Antimony	0.70	J F1	2.6	0.34	mg/Kg	10	☼	6020A	Total/NA
Arsenic	7.0		5.3	1.4	mg/Kg	10	☼	6020A	Total/NA
Barium	540	F2	11	0.49	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.39	J	0.53	0.14	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.61		0.26	0.084	mg/Kg	10	☼	6020A	Total/NA
Calcium	110000	F2 ^	530	61	mg/Kg	20	☼	6020A	Total/NA
Chromium	17		5.3	2.4	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.9		1.1	0.23	mg/Kg	10	☼	6020A	Total/NA
Copper	330	F1	5.3	0.53	mg/Kg	10	☼	6020A	Total/NA
Iron	18000		26	17	mg/Kg	10	☼	6020A	Total/NA
Lead	44		1.6	0.53	mg/Kg	10	☼	6020A	Total/NA
Magnesium	19000		260	20	mg/Kg	10	☼	6020A	Total/NA
Manganese	440	F2 F1	2.6	0.41	mg/Kg	10	☼	6020A	Total/NA
Nickel	23		2.6	0.56	mg/Kg	10	☼	6020A	Total/NA
Potassium	780	F1	53	16	mg/Kg	10	☼	6020A	Total/NA
Silver	8.8	F1	2.1	0.25	mg/Kg	20	☼	6020A	Total/NA
Sodium	480		110	35	mg/Kg	10	☼	6020A	Total/NA
Vanadium	14		5.3	3.9	mg/Kg	10	☼	6020A	Total/NA
Zinc	140	F1	26	7.0	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.36		0.035	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	640	B	58	6.2	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	640	B	58	6.2	mg/Kg	1	☼	310.1	Total/NA
pH	7.82		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-3.041-043 — Lab Sample ID: 160-12612-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	180		45	4.5	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	2.8	J	9.1	0.91	mg/Kg	5	☼	9056A	Total/NA
Scandium	1.8	J	9.0	0.84	mg/Kg	1	☼	6010B	Total/NA
Aluminum	2300	B	43	14	mg/Kg	10	☼	6020A	Total/NA
Antimony	8.3		4.3	0.56	mg/Kg	10	☼	6020A	Total/NA
Arsenic	5.0	J	8.6	2.2	mg/Kg	10	☼	6020A	Total/NA
Barium	310		17	0.81	mg/Kg	10	☼	6020A	Total/NA
Cadmium	2.3		0.43	0.14	mg/Kg	10	☼	6020A	Total/NA
Calcium	38000		430	50	mg/Kg	10	☼	6020A	Total/NA
Chromium	32		8.6	3.9	mg/Kg	10	☼	6020A	Total/NA
Cobalt	2.7		1.7	0.37	mg/Kg	10	☼	6020A	Total/NA
Copper	470		8.6	0.87	mg/Kg	10	☼	6020A	Total/NA
Iron	35000		43	28	mg/Kg	10	☼	6020A	Total/NA
Lead	360		2.6	0.86	mg/Kg	10	☼	6020A	Total/NA
Magnesium	8300		430	33	mg/Kg	10	☼	6020A	Total/NA
Manganese	250		4.3	0.66	mg/Kg	10	☼	6020A	Total/NA
Nickel	16		4.3	0.92	mg/Kg	10	☼	6020A	Total/NA
Potassium	1200		86	26	mg/Kg	10	☼	6020A	Total/NA
Silver	0.65	J	1.7	0.21	mg/Kg	10	☼	6020A	Total/NA
Sodium	3200		170	58	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12612-1

Client Sample ID: FEEBRIS1D-3.041-043 (Continued) — Lab Sample ID: 160-12612-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	450		43	11	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.14		0.058	0.019	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	3100	B	91	9.8	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	2000	B	91	9.8	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	1100		91	9.8	mg/Kg	1	☼	310.1	Total/NA
pH	8.35		0.0992	0.0992	SU	1		9045D	Total/NA

Client Sample ID: DUPLICATE # 2 — Lab Sample ID: 160-12612-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	330		58	5.8	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	12		12	1.2	mg/Kg	5	☼	9056A	Total/NA
Scandium	2.0	J	11	1.0	mg/Kg	1	☼	6010B	Total/NA
Aluminum	22000	B	49	17	mg/Kg	10	☼	6020A	Total/NA
Antimony	28		4.9	0.64	mg/Kg	10	☼	6020A	Total/NA
Arsenic	6.4	J	9.9	2.6	mg/Kg	10	☼	6020A	Total/NA
Barium	280		20	0.93	mg/Kg	10	☼	6020A	Total/NA
Cadmium	4.0		0.49	0.16	mg/Kg	10	☼	6020A	Total/NA
Calcium	42000		490	58	mg/Kg	10	☼	6020A	Total/NA
Chromium	42		9.9	4.5	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.2		2.0	0.43	mg/Kg	10	☼	6020A	Total/NA
Copper	1100		9.9	1.0	mg/Kg	10	☼	6020A	Total/NA
Iron	60000		49	33	mg/Kg	10	☼	6020A	Total/NA
Lead	390		3.0	0.99	mg/Kg	10	☼	6020A	Total/NA
Magnesium	15000		490	38	mg/Kg	10	☼	6020A	Total/NA
Manganese	450		4.9	0.76	mg/Kg	10	☼	6020A	Total/NA
Nickel	23		4.9	1.1	mg/Kg	10	☼	6020A	Total/NA
Potassium	1500		99	30	mg/Kg	10	☼	6020A	Total/NA
Silver	0.48	J	2.0	0.24	mg/Kg	10	☼	6020A	Total/NA
Sodium	3000		200	66	mg/Kg	10	☼	6020A	Total/NA
Vanadium	9.3	J	9.9	7.3	mg/Kg	10	☼	6020A	Total/NA
Zinc	2800		49	13	mg/Kg	10	☼	6020A	Total/NA
Mercury	2.3		0.077	0.026	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	4000	B	120	13	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	2800	B	120	13	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	1200		120	13	mg/Kg	1	☼	310.1	Total/NA
pH	8.29		0.0998	0.0998	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-12.061-062 — Lab Sample ID: 160-12612-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	620		49	4.9	mg/Kg	5	☼	9056A	Total/NA
Aluminum	36000	B	45	15	mg/Kg	10	☼	6020A	Total/NA
Antimony	3.3	J	4.5	0.58	mg/Kg	10	☼	6020A	Total/NA
Arsenic	27		9.0	2.3	mg/Kg	10	☼	6020A	Total/NA
Barium	210		18	0.84	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.24	J	0.90	0.23	mg/Kg	10	☼	6020A	Total/NA
Cadmium	1.1		0.45	0.14	mg/Kg	10	☼	6020A	Total/NA
Calcium	47000		450	52	mg/Kg	10	☼	6020A	Total/NA
Chromium	130		9.0	4.0	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Client Sample ID: FEEBRIS1D-12.061-062 (Continued) — Lab Sample ID: 160-12612-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	26		1.8	0.39	mg/Kg	10	☼	6020A	Total/NA
Copper	290		9.0	0.91	mg/Kg	10	☼	6020A	Total/NA
Iron	170000		90	59	mg/Kg	20	☼	6020A	Total/NA
Lead	42		2.7	0.90	mg/Kg	10	☼	6020A	Total/NA
Magnesium	20000		450	34	mg/Kg	10	☼	6020A	Total/NA
Manganese	1800		4.5	0.69	mg/Kg	10	☼	6020A	Total/NA
Nickel	170		4.5	0.96	mg/Kg	10	☼	6020A	Total/NA
Potassium	1100		90	27	mg/Kg	10	☼	6020A	Total/NA
Sodium	1500		180	60	mg/Kg	10	☼	6020A	Total/NA
Vanadium	14		9.0	6.6	mg/Kg	10	☼	6020A	Total/NA
Zinc	1700		45	12	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.29		0.060	0.020	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	750	F1 B	98	11	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	750	F1 B	98	11	mg/Kg	1	☼	310.1	Total/NA
pH	7.35		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-12.074-075 — Lab Sample ID: 160-12612-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	580		36	3.6	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	2.1	J	7.1	0.71	mg/Kg	5	☼	9056A	Total/NA
Scandium	1.3	J	6.9	0.65	mg/Kg	1	☼	6010B	Total/NA
Aluminum	3200	B	32	11	mg/Kg	10	☼	6020A	Total/NA
Arsenic	6.7		6.3	1.6	mg/Kg	10	☼	6020A	Total/NA
Barium	120		13	0.59	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.26	J	0.63	0.16	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.73		0.32	0.10	mg/Kg	10	☼	6020A	Total/NA
Calcium	19000		320	37	mg/Kg	10	☼	6020A	Total/NA
Chromium	10		6.3	2.8	mg/Kg	10	☼	6020A	Total/NA
Cobalt	4.7		1.3	0.27	mg/Kg	10	☼	6020A	Total/NA
Copper	19		6.3	0.64	mg/Kg	10	☼	6020A	Total/NA
Iron	17000		32	21	mg/Kg	10	☼	6020A	Total/NA
Lead	130		1.9	0.63	mg/Kg	10	☼	6020A	Total/NA
Magnesium	1600		320	24	mg/Kg	10	☼	6020A	Total/NA
Manganese	150		3.2	0.49	mg/Kg	10	☼	6020A	Total/NA
Nickel	13		3.2	0.67	mg/Kg	10	☼	6020A	Total/NA
Potassium	450		63	19	mg/Kg	10	☼	6020A	Total/NA
Sodium	400		130	42	mg/Kg	10	☼	6020A	Total/NA
Vanadium	15		6.3	4.6	mg/Kg	10	☼	6020A	Total/NA
Zinc	180		32	8.4	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.35		0.041	0.014	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1500	B	71	7.7	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1400	B	71	7.7	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	57	J	71	7.7	mg/Kg	1	☼	310.1	Total/NA
pH	8.18		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-15.077-080 — Lab Sample ID: 160-12612-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	100		29	2.9	mg/Kg	5	☼	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-15.077-080 (Continued)

Lab Sample ID: 160-12612-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride - DL	4.3	J	5.7	0.57	mg/Kg	5	☼	9056A	Total/NA
Aluminum	9400	B	27	9.0	mg/Kg	10	☼	6020A	Total/NA
Antimony	22		2.7	0.35	mg/Kg	10	☼	6020A	Total/NA
Arsenic	3.7	J	5.4	1.4	mg/Kg	10	☼	6020A	Total/NA
Barium	52		11	0.50	mg/Kg	10	☼	6020A	Total/NA
Cadmium	57		0.27	0.086	mg/Kg	10	☼	6020A	Total/NA
Calcium	11000		270	31	mg/Kg	10	☼	6020A	Total/NA
Chromium	14		5.4	2.4	mg/Kg	10	☼	6020A	Total/NA
Cobalt	2.0		1.1	0.23	mg/Kg	10	☼	6020A	Total/NA
Copper	45		5.4	0.54	mg/Kg	10	☼	6020A	Total/NA
Iron	18000		27	18	mg/Kg	10	☼	6020A	Total/NA
Lead	45		1.6	0.54	mg/Kg	10	☼	6020A	Total/NA
Magnesium	920		270	20	mg/Kg	10	☼	6020A	Total/NA
Manganese	290		2.7	0.41	mg/Kg	10	☼	6020A	Total/NA
Nickel	16		2.7	0.57	mg/Kg	10	☼	6020A	Total/NA
Potassium	1200		54	16	mg/Kg	10	☼	6020A	Total/NA
Sodium	1400		110	36	mg/Kg	10	☼	6020A	Total/NA
Vanadium	5.0	J	5.4	3.9	mg/Kg	10	☼	6020A	Total/NA
Zinc	420		27	7.1	mg/Kg	10	☼	6020A	Total/NA
Mercury	12		0.35	0.12	mg/Kg	10	☼	7471B	Total/NA
Alkalinity	1200	B	57	6.2	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	660	B	57	6.2	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	500		57	6.2	mg/Kg	1	☼	310.1	Total/NA
pH	8.64		0.0997	0.0997	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-15.085-086

Lab Sample ID: 160-12612-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	62		31	3.1	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	3.9	J	6.2	0.62	mg/Kg	5	☼	9056A	Total/NA
Scandium	0.72	J	6.1	0.57	mg/Kg	1	☼	6010B	Total/NA
Aluminum	4000	B	30	10	mg/Kg	10	☼	6020A	Total/NA
Antimony	0.56	J	3.0	0.40	mg/Kg	10	☼	6020A	Total/NA
Arsenic	4.5	J	6.1	1.6	mg/Kg	10	☼	6020A	Total/NA
Barium	750		12	0.57	mg/Kg	10	☼	6020A	Total/NA
Cadmium	1.7		0.30	0.097	mg/Kg	10	☼	6020A	Total/NA
Calcium	100000	^	610	71	mg/Kg	20	☼	6020A	Total/NA
Chromium	18		6.1	2.7	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.1		1.2	0.26	mg/Kg	10	☼	6020A	Total/NA
Copper	250		6.1	0.61	mg/Kg	10	☼	6020A	Total/NA
Iron	26000		30	20	mg/Kg	10	☼	6020A	Total/NA
Lead	48		1.8	0.61	mg/Kg	10	☼	6020A	Total/NA
Magnesium	26000		300	23	mg/Kg	10	☼	6020A	Total/NA
Manganese	260		3.0	0.47	mg/Kg	10	☼	6020A	Total/NA
Nickel	21		3.0	0.65	mg/Kg	10	☼	6020A	Total/NA
Potassium	860		61	18	mg/Kg	10	☼	6020A	Total/NA
Sodium	1600		120	41	mg/Kg	10	☼	6020A	Total/NA
Vanadium	7.8		6.1	4.5	mg/Kg	10	☼	6020A	Total/NA
Zinc	270		30	8.1	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.068		0.040	0.013	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12612-1

Client Sample ID: FEEBRIS1D-15.085-086 (Continued)

Lab Sample ID: 160-12612-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	6000	B	63	6.8	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	4200	B	63	6.8	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	1800		63	6.8	mg/Kg	1	☼	310.1	Total/NA
pH	8.88		0.0995	0.0995	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-11.085-086

Lab Sample ID: 160-12612-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	160		27	2.7	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	5.5		5.4	0.54	mg/Kg	5	☼	9056A	Total/NA
Scandium	1.9	J	5.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Aluminum	3600	B	24	8.0	mg/Kg	10	☼	6020A	Total/NA
Antimony	0.46	J	2.4	0.31	mg/Kg	10	☼	6020A	Total/NA
Arsenic	4.2	J	4.8	1.2	mg/Kg	10	☼	6020A	Total/NA
Barium	2100		9.6	0.45	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.31	J	0.48	0.12	mg/Kg	10	☼	6020A	Total/NA
Cadmium	1.7		0.24	0.077	mg/Kg	10	☼	6020A	Total/NA
Calcium	140000	^	1200	140	mg/Kg	50	☼	6020A	Total/NA
Chromium	19		4.8	2.2	mg/Kg	10	☼	6020A	Total/NA
Cobalt	8.7		0.96	0.21	mg/Kg	10	☼	6020A	Total/NA
Copper	170		4.8	0.48	mg/Kg	10	☼	6020A	Total/NA
Iron	11000		24	16	mg/Kg	10	☼	6020A	Total/NA
Lead	130		1.4	0.48	mg/Kg	10	☼	6020A	Total/NA
Magnesium	9200		240	18	mg/Kg	10	☼	6020A	Total/NA
Manganese	390		2.4	0.37	mg/Kg	10	☼	6020A	Total/NA
Nickel	28		2.4	0.51	mg/Kg	10	☼	6020A	Total/NA
Potassium	740		48	14	mg/Kg	10	☼	6020A	Total/NA
Selenium	1.6	J	2.4	0.76	mg/Kg	10	☼	6020A	Total/NA
Sodium	230		96	32	mg/Kg	10	☼	6020A	Total/NA
Vanadium	12		4.8	3.5	mg/Kg	10	☼	6020A	Total/NA
Zinc	200		24	6.4	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.056		0.034	0.011	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2800	B	54	5.8	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	2300	B	54	5.8	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	470		54	5.8	mg/Kg	1	☼	310.1	Total/NA
pH	8.25		0.0997	0.0997	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-11.087-088

Lab Sample ID: 160-12612-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	51		26	2.6	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	3.5	J	5.3	0.53	mg/Kg	5	☼	9056A	Total/NA
Scandium	0.49	J	5.2	0.49	mg/Kg	1	☼	6010B	Total/NA
Aluminum	3500	B	24	7.9	mg/Kg	10	☼	6020A	Total/NA
Arsenic	8.0		4.7	1.2	mg/Kg	10	☼	6020A	Total/NA
Barium	130		9.5	0.44	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.26	J	0.47	0.12	mg/Kg	10	☼	6020A	Total/NA
Cadmium	8.9		0.24	0.076	mg/Kg	10	☼	6020A	Total/NA
Calcium	9000		240	28	mg/Kg	10	☼	6020A	Total/NA
Chromium	63		4.7	2.1	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-11.087-088 (Continued)

Lab Sample ID: 160-12612-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	6.1		0.95	0.20	mg/Kg	10	☼	6020A	Total/NA
Copper	19		4.7	0.48	mg/Kg	10	☼	6020A	Total/NA
Iron	9000		24	16	mg/Kg	10	☼	6020A	Total/NA
Lead	87		1.4	0.47	mg/Kg	10	☼	6020A	Total/NA
Magnesium	1900		240	18	mg/Kg	10	☼	6020A	Total/NA
Manganese	340		2.4	0.36	mg/Kg	10	☼	6020A	Total/NA
Nickel	110		2.4	0.51	mg/Kg	10	☼	6020A	Total/NA
Potassium	510		47	14	mg/Kg	10	☼	6020A	Total/NA
Selenium	1.2	J	2.4	0.75	mg/Kg	10	☼	6020A	Total/NA
Silver	0.64	J	0.95	0.11	mg/Kg	10	☼	6020A	Total/NA
Sodium	73	J	95	32	mg/Kg	10	☼	6020A	Total/NA
Vanadium	16		4.7	3.5	mg/Kg	10	☼	6020A	Total/NA
Zinc	110		24	6.3	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.011	J	0.033	0.011	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	810	B	53	5.8	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	640	B	53	5.8	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	170		53	5.8	mg/Kg	1	☼	310.1	Total/NA
pH	8.36		0.0998	0.0998	SU	1		9045D	Total/NA

Client Sample ID: DUPLICATE # 1

Lab Sample ID: 160-12612-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	100		28	2.8	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	5.1	J	5.6	0.56	mg/Kg	5	☼	9056A	Total/NA
Aluminum	1100	B	25	8.4	mg/Kg	10	☼	6020A	Total/NA
Arsenic	2.1	J	5.0	1.3	mg/Kg	10	☼	6020A	Total/NA
Barium	21		10	0.47	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.21	J	0.25	0.081	mg/Kg	10	☼	6020A	Total/NA
Calcium	170000	^	1300	150	mg/Kg	50	☼	6020A	Total/NA
Chromium	6.7		5.0	2.3	mg/Kg	10	☼	6020A	Total/NA
Cobalt	1.7		1.0	0.22	mg/Kg	10	☼	6020A	Total/NA
Copper	3.0	J	5.0	0.51	mg/Kg	10	☼	6020A	Total/NA
Iron	13000		25	17	mg/Kg	10	☼	6020A	Total/NA
Lead	2.4		1.5	0.50	mg/Kg	10	☼	6020A	Total/NA
Magnesium	80000	^	1300	96	mg/Kg	50	☼	6020A	Total/NA
Manganese	330		2.5	0.39	mg/Kg	10	☼	6020A	Total/NA
Nickel	9.5		2.5	0.54	mg/Kg	10	☼	6020A	Total/NA
Potassium	320		50	15	mg/Kg	10	☼	6020A	Total/NA
Sodium	690		100	34	mg/Kg	10	☼	6020A	Total/NA
Vanadium	23		5.0	3.7	mg/Kg	10	☼	6020A	Total/NA
Zinc	52		25	6.7	mg/Kg	10	☼	6020A	Total/NA
Alkalinity	460	H B	55	6.0	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	240	H B	55	6.0	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	220	H	55	6.0	mg/Kg	1	☼	310.1	Total/NA
pH	8.52		0.0997	0.0997	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-3.028-029

Date Collected: 07/06/15 11:26
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-1

Matrix: Solid
Percent Solids: 86.4

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	170		29	2.9	mg/Kg	☼	07/14/15 14:35	07/16/15 02:02	5
Fluoride	8.5		5.8	0.58	mg/Kg	☼	07/14/15 14:35	07/16/15 02:02	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.5	0.51	mg/Kg	☼	07/08/15 12:08	07/09/15 17:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5400	B	26	8.8	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Antimony	0.70	J F1	2.6	0.34	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Arsenic	7.0		5.3	1.4	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Barium	540	F2	11	0.49	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Beryllium	0.39	J	0.53	0.14	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Cadmium	0.61		0.26	0.084	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Calcium	110000	F2 ^	530	61	mg/Kg	☼	07/13/15 11:00	07/17/15 21:20	20
Chromium	17		5.3	2.4	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Cobalt	6.9		1.1	0.23	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Copper	330	F1	5.3	0.53	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Iron	18000		26	17	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Lead	44		1.6	0.53	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Magnesium	19000		260	20	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Manganese	440	F2 F1	2.6	0.41	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Nickel	23		2.6	0.56	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Niobium	ND	^	13	2.0	mg/Kg	☼	07/13/15 11:00	07/16/15 15:20	10
Potassium	780	F1	53	16	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Selenium	ND		2.6	0.83	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Silver	8.8	F1	2.1	0.25	mg/Kg	☼	07/13/15 11:00	07/17/15 21:20	20
Sodium	480		110	35	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Thallium	ND		5.3	1.6	mg/Kg	☼	07/13/15 11:00	07/17/15 21:20	20
Vanadium	14		5.3	3.9	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Zinc	140	F1	26	7.0	mg/Kg	☼	07/13/15 11:00	07/15/15 18:47	10
Tantalum	ND	F1	5.3	0.82	mg/Kg	☼	07/13/15 11:00	07/16/15 15:20	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.035	0.012	mg/Kg	☼	07/08/15 08:54	07/08/15 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	640	B	58	6.2	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	640	B	58	6.2	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	ND		58	6.2	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	7.82		0.0999	0.0999	SU		07/07/15 11:54	07/07/15 16:55	1

Client Sample ID: FEEBRIS1D-3.041-043

Date Collected: 07/06/15 13:09
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-2

Matrix: Solid
Percent Solids: 54.7

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	180		45	4.5	mg/Kg	☼	07/14/15 14:35	07/16/15 03:22	5
Fluoride	2.8	J	9.1	0.91	mg/Kg	☼	07/14/15 14:35	07/16/15 03:22	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.8	J	9.0	0.84	mg/Kg	☼	07/08/15 12:08	07/09/15 17:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2300	B	43	14	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Antimony	8.3		4.3	0.56	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Arsenic	5.0	J	8.6	2.2	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Barium	310		17	0.81	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Beryllium	ND		0.86	0.22	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Cadmium	2.3		0.43	0.14	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Calcium	38000		430	50	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Chromium	32		8.6	3.9	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Cobalt	2.7		1.7	0.37	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Copper	470		8.6	0.87	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Iron	35000		43	28	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Lead	360		2.6	0.86	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Magnesium	8300		430	33	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Manganese	250		4.3	0.66	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Nickel	16		4.3	0.92	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Niobium	ND	^	22	3.3	mg/Kg	☼	07/13/15 11:00	07/16/15 15:37	10
Potassium	1200		86	26	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Selenium	ND		4.3	1.4	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Silver	0.65	J	1.7	0.21	mg/Kg	☼	07/13/15 11:00	07/17/15 22:07	10
Sodium	3200		170	58	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Thallium	ND		4.3	1.3	mg/Kg	☼	07/13/15 11:00	07/17/15 22:07	10
Vanadium	ND		8.6	6.3	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Zinc	450		43	11	mg/Kg	☼	07/13/15 11:00	07/15/15 19:13	10
Tantalum	ND		8.6	1.3	mg/Kg	☼	07/13/15 11:00	07/16/15 15:37	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.058	0.019	mg/Kg	☼	07/08/15 08:54	07/08/15 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3100	B	91	9.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	2000	B	91	9.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	1100		91	9.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	8.35		0.0992	0.0992	SU		07/07/15 11:54	07/07/15 16:58	1

Client Sample ID: DUPLICATE # 2

Date Collected: 07/06/15 13:09
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-3

Matrix: Solid
Percent Solids: 42.7

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	330		58	5.8	mg/Kg	☼	07/14/15 14:35	07/16/15 04:16	5
Fluoride	12		12	1.2	mg/Kg	☼	07/14/15 14:35	07/16/15 04:16	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.0	J	11	1.0	mg/Kg	☼	07/08/15 12:08	07/09/15 17:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	22000	B	49	17	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Antimony	28		4.9	0.64	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Arsenic	6.4	J	9.9	2.6	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Barium	280		20	0.93	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Beryllium	ND		0.99	0.26	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Cadmium	4.0		0.49	0.16	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Calcium	42000		490	58	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Chromium	42		9.9	4.5	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Cobalt	6.2		2.0	0.43	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Copper	1100		9.9	1.0	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Iron	60000		49	33	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Lead	390		3.0	0.99	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Magnesium	15000		490	38	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Manganese	450		4.9	0.76	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Nickel	23		4.9	1.1	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Niobium	ND	^	25	3.8	mg/Kg	☼	07/13/15 11:00	07/16/15 15:42	10
Potassium	1500		99	30	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Selenium	ND		4.9	1.6	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Silver	0.48	J	2.0	0.24	mg/Kg	☼	07/13/15 11:00	07/17/15 22:14	10
Sodium	3000		200	66	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Thallium	ND		4.9	1.5	mg/Kg	☼	07/13/15 11:00	07/17/15 22:14	10
Vanadium	9.3	J	9.9	7.3	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Zinc	2800		49	13	mg/Kg	☼	07/13/15 11:00	07/15/15 19:20	10
Tantalum	ND		9.9	1.5	mg/Kg	☼	07/13/15 11:00	07/16/15 15:42	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.3		0.077	0.026	mg/Kg	☼	07/08/15 08:54	07/08/15 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	4000	B	120	13	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	2800	B	120	13	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	1200		120	13	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	8.29		0.0998	0.0998	SU		07/07/15 11:54	07/07/15 17:01	1

Client Sample ID: FEEBRIS1D-12.061-062
Date Collected: 07/06/15 10:07
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-4
Matrix: Solid
Percent Solids: 50.6

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	620		49	4.9	mg/Kg	☼	07/14/15 14:35	07/16/15 04:43	5
Fluoride	ND		9.9	0.99	mg/Kg	☼	07/14/15 14:35	07/16/15 04:43	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		9.2	0.86	mg/Kg	☼	07/08/15 12:08	07/09/15 17:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	36000	B	45	15	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Antimony	3.3	J	4.5	0.58	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Arsenic	27		9.0	2.3	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Barium	210		18	0.84	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Beryllium	0.24	J	0.90	0.23	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Cadmium	1.1		0.45	0.14	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Calcium	47000		450	52	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Chromium	130		9.0	4.0	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Cobalt	26		1.8	0.39	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Copper	290		9.0	0.91	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Iron	170000		90	59	mg/Kg	☼	07/13/15 11:00	07/17/15 22:20	20
Lead	42		2.7	0.90	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Magnesium	20000		450	34	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Manganese	1800		4.5	0.69	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Nickel	170		4.5	0.96	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Niobium	ND	^	22	3.4	mg/Kg	☼	07/13/15 11:00	07/16/15 15:46	10
Potassium	1100		90	27	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Selenium	ND		4.5	1.4	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Silver	ND		3.6	0.43	mg/Kg	☼	07/13/15 11:00	07/17/15 22:20	20
Sodium	1500		180	60	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Thallium	ND		9.0	2.7	mg/Kg	☼	07/13/15 11:00	07/17/15 22:20	20
Vanadium	14		9.0	6.6	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Zinc	1700		45	12	mg/Kg	☼	07/13/15 11:00	07/15/15 19:27	10
Tantalum	ND		9.0	1.4	mg/Kg	☼	07/13/15 11:00	07/16/15 15:46	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.060	0.020	mg/Kg	☼	07/08/15 08:54	07/08/15 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	750	F1 B	98	11	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	750	F1 B	98	11	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	ND		98	11	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	7.35		0.0999	0.0999	SU		07/07/15 11:54	07/07/15 17:04	1

Client Sample ID: FEEBRIS1D-12.074-075
Date Collected: 07/06/15 10:30
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-5
Matrix: Solid
Percent Solids: 69.9

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	580		36	3.6	mg/Kg	☼	07/14/15 14:35	07/16/15 05:10	5
Fluoride	2.1	J	7.1	0.71	mg/Kg	☼	07/14/15 14:35	07/16/15 05:10	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.3	J	6.9	0.65	mg/Kg	☼	07/08/15 12:08	07/09/15 17:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3200	B	32	11	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Antimony	ND		3.2	0.41	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Arsenic	6.7		6.3	1.6	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Barium	120		13	0.59	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Beryllium	0.26	J	0.63	0.16	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Cadmium	0.73		0.32	0.10	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Calcium	19000		320	37	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Chromium	10		6.3	2.8	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Cobalt	4.7		1.3	0.27	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Copper	19		6.3	0.64	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Iron	17000		32	21	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Lead	130		1.9	0.63	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Magnesium	1600		320	24	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Manganese	150		3.2	0.49	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Nickel	13		3.2	0.67	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Niobium	ND	^	16	2.4	mg/Kg	☼	07/13/15 11:00	07/16/15 16:03	10
Potassium	450		63	19	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Selenium	ND		3.2	1.0	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Silver	ND		1.3	0.15	mg/Kg	☼	07/13/15 11:00	07/17/15 22:27	10
Sodium	400		130	42	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Thallium	ND		3.2	0.96	mg/Kg	☼	07/13/15 11:00	07/17/15 22:27	10
Vanadium	15		6.3	4.6	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Zinc	180		32	8.4	mg/Kg	☼	07/13/15 11:00	07/15/15 19:34	10
Tantalum	ND		6.3	0.98	mg/Kg	☼	07/13/15 11:00	07/16/15 16:03	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.041	0.014	mg/Kg	☼	07/08/15 08:54	07/08/15 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1500	B	71	7.7	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	1400	B	71	7.7	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	57	J	71	7.7	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	8.18		0.0999	0.0999	SU		07/07/15 11:54	07/07/15 17:09	1

Client Sample ID: FEEBRIS1D-15.077-080
Date Collected: 07/02/15 15:50
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-6
Matrix: Solid
Percent Solids: 87.4

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	100		29	2.9	mg/Kg	☼	07/14/15 14:35	07/16/15 05:37	5
Fluoride	4.3	J	5.7	0.57	mg/Kg	☼	07/14/15 14:35	07/16/15 05:37	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.3	0.49	mg/Kg	☼	07/08/15 12:08	07/09/15 17:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	B	27	9.0	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Antimony	22		2.7	0.35	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Arsenic	3.7	J	5.4	1.4	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Barium	52		11	0.50	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Beryllium	ND		0.54	0.14	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Cadmium	57		0.27	0.086	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Calcium	11000		270	31	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Chromium	14		5.4	2.4	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Cobalt	2.0		1.1	0.23	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Copper	45		5.4	0.54	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Iron	18000		27	18	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Lead	45		1.6	0.54	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Magnesium	920		270	20	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Manganese	290		2.7	0.41	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Nickel	16		2.7	0.57	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Niobium	ND	^	13	2.0	mg/Kg	☼	07/13/15 11:00	07/16/15 16:08	10
Potassium	1200		54	16	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Selenium	ND		2.7	0.85	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Silver	ND		1.1	0.13	mg/Kg	☼	07/13/15 11:00	07/17/15 22:34	10
Sodium	1400		110	36	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Thallium	ND		2.7	0.82	mg/Kg	☼	07/13/15 11:00	07/17/15 22:34	10
Vanadium	5.0	J	5.4	3.9	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Zinc	420		27	7.1	mg/Kg	☼	07/13/15 11:00	07/15/15 20:00	10
Tantalum	ND		5.4	0.84	mg/Kg	☼	07/13/15 11:00	07/16/15 16:08	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12		0.35	0.12	mg/Kg	☼	07/08/15 08:54	07/08/15 14:35	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1200	B	57	6.2	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	660	B	57	6.2	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	500		57	6.2	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	8.64		0.0997	0.0997	SU		07/07/15 11:54	07/07/15 17:12	1

Client Sample ID: FEEBRIS1D-15.085-086

Date Collected: 07/02/15 15:22
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-7

Matrix: Solid
Percent Solids: 80.0

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	62		31	3.1	mg/Kg	☼	07/14/15 14:35	07/16/15 06:04	5
Fluoride	3.9	J	6.2	0.62	mg/Kg	☼	07/14/15 14:35	07/16/15 06:04	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.72	J	6.1	0.57	mg/Kg	☼	07/08/15 12:08	07/09/15 17:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4000	B	30	10	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Antimony	0.56	J	3.0	0.40	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Arsenic	4.5	J	6.1	1.6	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Barium	750		12	0.57	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Beryllium	ND		0.61	0.16	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Cadmium	1.7		0.30	0.097	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Calcium	100000	^	610	71	mg/Kg	☼	07/13/15 11:00	07/17/15 22:40	20
Chromium	18		6.1	2.7	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Cobalt	6.1		1.2	0.26	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Copper	250		6.1	0.61	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Iron	26000		30	20	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Lead	48		1.8	0.61	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Magnesium	26000		300	23	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Manganese	260		3.0	0.47	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Nickel	21		3.0	0.65	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Niobium	ND	^	15	2.3	mg/Kg	☼	07/13/15 11:00	07/16/15 16:12	10
Potassium	860		61	18	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Selenium	ND		3.0	0.96	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Silver	ND		2.4	0.29	mg/Kg	☼	07/13/15 11:00	07/17/15 22:40	20
Sodium	1600		120	41	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Thallium	ND		6.1	1.8	mg/Kg	☼	07/13/15 11:00	07/17/15 22:40	20
Vanadium	7.8		6.1	4.5	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Zinc	270		30	8.1	mg/Kg	☼	07/13/15 11:00	07/15/15 20:07	10
Tantalum	ND		6.1	0.95	mg/Kg	☼	07/13/15 11:00	07/16/15 16:12	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068		0.040	0.013	mg/Kg	☼	07/08/15 08:54	07/08/15 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	6000	B	63	6.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	4200	B	63	6.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	1800		63	6.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	8.88		0.0995	0.0995	SU		07/07/15 11:54	07/07/15 17:15	1

Client Sample ID: FEEBRIS1D-11.085-086
Date Collected: 07/02/15 10:26
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-8
Matrix: Solid
Percent Solids: 92.8

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	160		27	2.7	mg/Kg	☼	07/14/15 14:35	07/16/15 06:57	5
Fluoride	5.5		5.4	0.54	mg/Kg	☼	07/14/15 14:35	07/16/15 06:57	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.9	J	5.1	0.48	mg/Kg	☼	07/08/15 12:08	07/09/15 17:57	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3600	B	24	8.0	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Antimony	0.46	J	2.4	0.31	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Arsenic	4.2	J	4.8	1.2	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Barium	2100		9.6	0.45	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Beryllium	0.31	J	0.48	0.12	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Cadmium	1.7		0.24	0.077	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Calcium	140000	^	1200	140	mg/Kg	☼	07/13/15 11:00	07/17/15 22:47	50
Chromium	19		4.8	2.2	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Cobalt	8.7		0.96	0.21	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Copper	170		4.8	0.48	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Iron	11000		24	16	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Lead	130		1.4	0.48	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Magnesium	9200		240	18	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Manganese	390		2.4	0.37	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Nickel	28		2.4	0.51	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Niobium	ND	^	12	1.8	mg/Kg	☼	07/13/15 11:00	07/16/15 16:16	10
Potassium	740		48	14	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Selenium	1.6	J	2.4	0.76	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Silver	ND		4.8	0.57	mg/Kg	☼	07/13/15 11:00	07/17/15 22:47	50
Sodium	230		96	32	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Thallium	ND		12	3.6	mg/Kg	☼	07/13/15 11:00	07/17/15 22:47	50
Vanadium	12		4.8	3.5	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Zinc	200		24	6.4	mg/Kg	☼	07/13/15 11:00	07/15/15 20:14	10
Tantalum	ND		4.8	0.75	mg/Kg	☼	07/13/15 11:00	07/16/15 16:16	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.034	0.011	mg/Kg	☼	07/08/15 08:54	07/08/15 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2800	B	54	5.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	2300	B	54	5.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	470		54	5.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	8.25		0.0997	0.0997	SU		07/07/15 11:54	07/07/15 17:18	1

Client Sample ID: FEEBRIS1D-11.087-088
Date Collected: 07/02/15 10:40
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-9
Matrix: Solid
Percent Solids: 94.1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	51		26	2.6	mg/Kg	☼	07/14/15 14:35	07/16/15 07:24	5
Fluoride	3.5	J	5.3	0.53	mg/Kg	☼	07/14/15 14:35	07/16/15 07:24	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.49	J	5.2	0.49	mg/Kg	☼	07/08/15 12:08	07/09/15 18:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3500	B	24	7.9	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Antimony	ND		2.4	0.31	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Arsenic	8.0		4.7	1.2	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Barium	130		9.5	0.44	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Beryllium	0.26	J	0.47	0.12	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Cadmium	8.9		0.24	0.076	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Calcium	9000		240	28	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Chromium	63		4.7	2.1	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Cobalt	6.1		0.95	0.20	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Copper	19		4.7	0.48	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Iron	9000		24	16	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Lead	87		1.4	0.47	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Magnesium	1900		240	18	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Manganese	340		2.4	0.36	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Nickel	110		2.4	0.51	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Niobium	ND	^	12	1.8	mg/Kg	☼	07/13/15 11:00	07/16/15 16:21	10
Potassium	510		47	14	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Selenium	1.2	J	2.4	0.75	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Silver	0.64	J	0.95	0.11	mg/Kg	☼	07/13/15 11:00	07/17/15 22:54	10
Sodium	73	J	95	32	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Thallium	ND		2.4	0.72	mg/Kg	☼	07/13/15 11:00	07/17/15 22:54	10
Vanadium	16		4.7	3.5	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Zinc	110		24	6.3	mg/Kg	☼	07/13/15 11:00	07/15/15 20:21	10
Tantalum	ND		4.7	0.74	mg/Kg	☼	07/13/15 11:00	07/16/15 16:21	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.033	0.011	mg/Kg	☼	07/08/15 08:54	07/08/15 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	810	B	53	5.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	640	B	53	5.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	170		53	5.8	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	8.36		0.0998	0.0998	SU		07/07/15 11:54	07/07/15 17:21	1

Client Sample ID: DUPLICATE # 1

Date Collected: 06/12/15 14:15
Date Received: 07/06/15 14:47

Lab Sample ID: 160-12612-10

Matrix: Solid
Percent Solids: 89.9

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**100**		28	2.8	mg/Kg	☼	07/14/15 14:35	07/16/15 07:51	5
Fluoride	**5.1**	**J**	5.6	0.56	mg/Kg	☼	07/14/15 14:35	07/16/15 07:51	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.3	0.50	mg/Kg	☼	07/08/15 12:08	07/09/15 18:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1100**	**B**	25	8.4	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Antimony	ND		2.5	0.33	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Arsenic	**2.1**	**J**	5.0	1.3	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Barium	**21**		10	0.47	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Beryllium	ND		0.50	0.13	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Cadmium	**0.21**	**J**	0.25	0.081	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Calcium	**170000**	**^**	1300	150	mg/Kg	☼	07/13/15 11:01	07/17/15 23:01	50
Chromium	**6.7**		5.0	2.3	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Cobalt	**1.7**		1.0	0.22	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Copper	**3.0**	**J**	5.0	0.51	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Iron	**13000**		25	17	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Lead	**2.4**		1.5	0.50	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Magnesium	**80000**	**^**	1300	96	mg/Kg	☼	07/13/15 11:01	07/17/15 23:01	50
Manganese	**330**		2.5	0.39	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Nickel	**9.5**		2.5	0.54	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Niobium	ND	^	13	1.9	mg/Kg	☼	07/13/15 11:01	07/16/15 16:25	10
Potassium	**320**		50	15	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Selenium	ND		2.5	0.80	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Silver	ND		5.0	0.60	mg/Kg	☼	07/13/15 11:01	07/17/15 23:01	50
Sodium	**690**		100	34	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Thallium	ND		13	3.8	mg/Kg	☼	07/13/15 11:01	07/17/15 23:01	50
Vanadium	**23**		5.0	3.7	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Zinc	**52**		25	6.7	mg/Kg	☼	07/13/15 11:01	07/15/15 20:27	10
Tantalum	ND		5.0	0.79	mg/Kg	☼	07/13/15 11:01	07/16/15 16:25	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.032	0.011	mg/Kg	☼	07/08/15 08:54	07/08/15 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**460**	**H B**	55	6.0	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	**240**	**H B**	55	6.0	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	**220**	**H**	55	6.0	mg/Kg	☼	07/09/15 17:36	07/10/15 13:03	1
pH	**8.52**		0.0997	0.0997	SU		07/07/15 11:54	07/07/15 17:24	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-200038/1-A
Matrix: Solid
Analysis Batch: 200397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.50	mg/Kg		07/14/15 14:35	07/16/15 01:35	1
Fluoride	ND		0.99	0.099	mg/Kg		07/14/15 14:35	07/16/15 01:35	1

Lab Sample ID: LCS 160-200038/2-A
Matrix: Solid
Analysis Batch: 200397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	79.9	75.2		mg/Kg		94	80 - 120
Fluoride	9.99	10.5		mg/Kg		105	80 - 120

Method: 9056A - Anions, Ion Chromatography - DL

Lab Sample ID: 160-12612-1 MS
Matrix: Solid
Analysis Batch: 200397

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 200038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	170		232	387		mg/Kg	☼	93	75 - 121
Fluoride - DL	8.5		116	134		mg/Kg	☼	108	80 - 123

Lab Sample ID: 160-12612-1 DU
Matrix: Solid
Analysis Batch: 200397

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 200038

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	170		173		mg/Kg	☼	0.3	30
Fluoride - DL	8.5		8.66		mg/Kg	☼	1	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-67461/1-A
Matrix: Solid
Analysis Batch: 67706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		4.8	0.45	mg/Kg		07/08/15 12:08	07/09/15 16:58	1

Lab Sample ID: LCS 550-67461/2-A
Matrix: Solid
Analysis Batch: 67706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	48.5	51.2		mg/Kg		106	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 550-67461/3-A
Matrix: Solid
Analysis Batch: 67706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67461

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium			49.6	52.0		mg/Kg		105	80 - 120	2	20

Lab Sample ID: 160-12612-1 MS
Matrix: Solid
Analysis Batch: 67706

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 67461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Scandium	ND		54.9	56.2		mg/Kg	☼	102	75 - 125		

Lab Sample ID: 160-12612-1 MSD
Matrix: Solid
Analysis Batch: 67706

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 67461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	ND		57.1	59.6		mg/Kg	☼	104	75 - 125	6	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-199754/1-A
Matrix: Solid
Analysis Batch: 200552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.65	J	4.3	1.4	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Antimony	ND		0.43	0.056	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Arsenic	ND		0.86	0.22	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Barium	ND		1.7	0.080	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Beryllium	ND		0.086	0.022	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Cadmium	ND		0.043	0.014	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Calcium	ND		43	5.0	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Chromium	ND		0.86	0.39	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Cobalt	ND		0.17	0.037	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Copper	ND		0.86	0.086	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Iron	ND		4.3	2.8	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Lead	ND		0.26	0.086	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Magnesium	ND		43	3.3	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Manganese	ND		0.43	0.066	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Nickel	ND		0.43	0.092	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Potassium	ND		8.6	2.6	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Selenium	ND		0.43	0.14	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Sodium	ND		17	5.7	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Vanadium	ND		0.86	0.63	mg/Kg		07/13/15 11:00	07/15/15 18:06	2
Zinc	ND		4.3	1.1	mg/Kg		07/13/15 11:00	07/15/15 18:06	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-199754/1-A
Matrix: Solid
Analysis Batch: 200645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND	^	2.1	0.33	mg/Kg		07/13/15 11:00	07/16/15 15:07	2
Tantalum	ND		0.86	0.13	mg/Kg		07/13/15 11:00	07/16/15 15:07	2

Lab Sample ID: MB 160-199754/1-A
Matrix: Solid
Analysis Batch: 200941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.17	0.021	mg/Kg		07/13/15 11:00	07/17/15 21:06	2
Thallium	ND		0.43	0.13	mg/Kg		07/13/15 11:00	07/17/15 21:06	2

Lab Sample ID: LCS 160-199754/3-A
Matrix: Solid
Analysis Batch: 200645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	4.68	4.80	^	mg/Kg		103	80 - 120
Tantalum	9.35	7.88		mg/Kg		84	75 - 125

Lab Sample ID: LCSSRM 160-199754/2-A
Matrix: Solid
Analysis Batch: 200552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	7580		mg/Kg		94.1	39.5 - 160.0
Antimony	94.0	61.3		mg/Kg		65.2	22.8 - 257.4
Arsenic	113	125		mg/Kg		110.3	69.7 - 142.5
Barium	155	161		mg/Kg		103.9	72.9 - 127.1
Beryllium	109	110		mg/Kg		101.3	74.7 - 124.8
Cadmium	67.5	70.7		mg/Kg		104.7	73.2 - 126.8
Calcium	5850	5910		mg/Kg		101.0	73.7 - 126.5
Chromium	164	177		mg/Kg		108.0	70.7 - 129.9
Cobalt	100	106		mg/Kg		106.4	74.4 - 126.0
Copper	128	139		mg/Kg		108.6	75.2 - 125.8
Iron	15200	15900		mg/Kg		104.5	37.4 - 162.5
Lead	90.1	93.8		mg/Kg		104.1	70.1 - 129.9
Magnesium	2790	2950		mg/Kg		105.9	65.2 - 135.1
Manganese	363	404		mg/Kg		111.3	75.8 - 124.5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-199754/2-A
Matrix: Solid
Analysis Batch: 200552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	89.3	100		mg/Kg		112.0	72.0 - 127.7
Potassium	2770	2700		mg/Kg		97.4	61.7 - 138.3
Selenium	156	173		mg/Kg		110.6	67.3 - 132.1
Sodium	686	726		mg/Kg		105.8	55.8 - 144.2
Vanadium	73.0	79.6		mg/Kg		109.1	59.7 - 139.7
Zinc	168	188		mg/Kg		111.9	69.0 - 131.5

Lab Sample ID: LCSSRM 160-199754/2-A
Matrix: Solid
Analysis Batch: 200941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	52.6	53.9		mg/Kg		102.4	66.7 - 133.5
Thallium	116	125		mg/Kg		107.7	67.4 - 131.9

Lab Sample ID: 160-12612-1 MS
Matrix: Solid
Analysis Batch: 200552

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5400	B	998	11400	4	mg/Kg	☼	599	75 - 125
Antimony	0.70	J F1	49.9	34.0	F1	mg/Kg	☼	67	75 - 125
Arsenic	7.0		99.8	111		mg/Kg	☼	104	75 - 125
Barium	540	F2	99.8	1100	4	mg/Kg	☼	564	75 - 125
Beryllium	0.39	J	99.8	98.4		mg/Kg	☼	98	75 - 125
Cadmium	0.61		99.8	101		mg/Kg	☼	100	75 - 125
Chromium	17		99.8	121		mg/Kg	☼	104	75 - 125
Cobalt	6.9		99.8	108		mg/Kg	☼	101	75 - 125
Copper	330	F1	99.8	496	F1	mg/Kg	☼	165	75 - 125
Iron	18000		998	17900	4	mg/Kg	☼	-50	75 - 125
Lead	44		99.8	152		mg/Kg	☼	108	75 - 125
Magnesium	19000		998	15100	4	mg/Kg	☼	-403	75 - 125
Manganese	440	F2 F1	99.8	618	4	mg/Kg	☼	182	75 - 125
Nickel	23		99.8	124		mg/Kg	☼	102	75 - 125
Potassium	780	F1	998	2650	F1	mg/Kg	☼	187	75 - 125
Selenium	ND		49.9	54.8		mg/Kg	☼	110	75 - 125
Sodium	480		998	1410		mg/Kg	☼	93	75 - 125
Vanadium	14		99.8	129		mg/Kg	☼	115	75 - 125
Zinc	140	F1	99.8	177	F1	mg/Kg	☼	40	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-12612-1 MS
Matrix: Solid
Analysis Batch: 200645

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	ND	^	4.99	4.79	J ^	mg/Kg	☼	96	75 - 125
Tantalum	ND	F1	9.98	1.57	J F1	mg/Kg	☼	16	75 - 125

Lab Sample ID: 160-12612-1 MS
Matrix: Solid
Analysis Batch: 200941

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	110000	F2 ^	998	173000	^ 4	mg/Kg	☼	5784	75 - 125
Silver	8.8	F1	20.0	20.6	F1	mg/Kg	☼	59	75 - 125
Thallium	ND		20.0	19.8		mg/Kg	☼	99	75 - 125

Lab Sample ID: 160-12612-1 MSD
Matrix: Solid
Analysis Batch: 200552

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	5400	B	1100	12700	4	mg/Kg	☼	668	75 - 125	11	30
Antimony	0.70	J F1	55.0	37.0	F1	mg/Kg	☼	66	75 - 125	8	30
Arsenic	7.0		110	124		mg/Kg	☼	107	75 - 125	11	30
Barium	540	F2	110	367	4 F2	mg/Kg	☼	-159	75 - 125	100	30
Beryllium	0.39	J	110	110		mg/Kg	☼	99	75 - 125	11	30
Cadmium	0.61		110	112		mg/Kg	☼	101	75 - 125	11	30
Chromium	17		110	135		mg/Kg	☼	107	75 - 125	10	30
Cobalt	6.9		110	118		mg/Kg	☼	101	75 - 125	9	30
Copper	330	F1	110	468		mg/Kg	☼	124	75 - 125	6	30
Iron	18000		1100	24200	4	mg/Kg	☼	527	75 - 125	30	30
Lead	44		110	152		mg/Kg	☼	98	75 - 125	0	30
Magnesium	19000		1100	20300	4	mg/Kg	☼	110	75 - 125	30	30
Manganese	440	F2 F1	110	1110	F1 F2	mg/Kg	☼	617	75 - 125	57	30
Nickel	23		110	138		mg/Kg	☼	104	75 - 125	10	30
Potassium	780	F1	1100	2910	F1	mg/Kg	☼	194	75 - 125	9	30
Selenium	ND		55.0	55.2		mg/Kg	☼	100	75 - 125	1	30
Sodium	480		1100	1610		mg/Kg	☼	103	75 - 125	14	30
Vanadium	14		110	141		mg/Kg	☼	116	75 - 125	9	30
Zinc	140	F1	110	232		mg/Kg	☼	86	75 - 125	27	30

Lab Sample ID: 160-12612-1 MSD
Matrix: Solid
Analysis Batch: 200645

Client Sample ID: FEEBRIS1D-3.028-029
Prep Type: Total/NA
Prep Batch: 199754

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium	ND	^	5.50	5.36	J ^	mg/Kg	☼	98	75 - 125	11	30
Tantalum	ND	F1	11.0	1.53	J F1	mg/Kg	☼	14	75 - 125	3	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-12612-1 MSD — **Client Sample ID: FEEBRIS1D-3.028-029**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 200941 — **Prep Batch: 199754**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	110000	F2 ^	1100	109000	^ 4 F2	mg/Kg	☼	-569	75 - 125	46	30
Silver	8.8	F1	22.0	26.2		mg/Kg	☼	79	75 - 125	24	30
Thallium	ND		22.0	22.0		mg/Kg	☼	100	75 - 125	11	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-199133/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199218 — **Prep Batch: 199133**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.029	0.0097	mg/Kg		07/08/15 08:54	07/08/15 13:34	1

Lab Sample ID: LCSSRM 160-199133/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199218 — **Prep Batch: 199133**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.37	6.96		mg/Kg		83.1	51.3 - 148.1

Lab Sample ID: 160-12612-4 MS — **Client Sample ID: FEEBRIS1D-12.061-062**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199218 — **Prep Batch: 199133**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.29		1.63	1.97		mg/Kg	☼	103	80 - 120

Lab Sample ID: 160-12612-4 MSD — **Client Sample ID: FEEBRIS1D-12.061-062**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199218 — **Prep Batch: 199133**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.29		1.54	1.63		mg/Kg	☼	87	80 - 120	19	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-199469/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 199649 — **Prep Batch: 199469**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	9.98	J	50	5.4	mg/Kg		07/09/15 17:36	07/10/15 13:03	1
Bicarbonate Alkalinity as CaCO3	9.98	J	50	5.4	mg/Kg		07/09/15 17:36	07/10/15 13:03	1
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		07/09/15 17:36	07/10/15 13:03	1

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: HLCS 160-199469/3-A
Matrix: Solid
Analysis Batch: 199649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199469

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	3990	3860		mg/Kg		97	90 - 110
Bicarbonate Alkalinity as CaCO3	3990	3860		mg/Kg		97	90 - 110

Lab Sample ID: LCS 160-199469/2-A
Matrix: Solid
Analysis Batch: 199649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	1990	1910		mg/Kg		96	90 - 110
Bicarbonate Alkalinity as CaCO3	1990	1910		mg/Kg		96	90 - 110

Lab Sample ID: 160-12612-4 MS
Matrix: Solid
Analysis Batch: 199649

Client Sample ID: FEEBRIS1D-12.061-062
Prep Type: Total/NA
Prep Batch: 199469

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	750	F1 B	1960	2160	F1	mg/Kg	☼	72	75 - 125
Bicarbonate Alkalinity as CaCO3	750	F1 B	1960	2160	F1	mg/Kg	☼	72	75 - 125

Lab Sample ID: 160-12612-4 DU
Matrix: Solid
Analysis Batch: 199649

Client Sample ID: FEEBRIS1D-12.061-062
Prep Type: Total/NA
Prep Batch: 199469

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	750	F1 B	828		mg/Kg	☼	10	30
Bicarbonate Alkalinity as CaCO3	750	F1 B	828		mg/Kg	☼	10	30
Carbonate Alkalinity as CaCO3	ND		ND		mg/Kg	☼	NC	30

Method: 9045D - pH

Lab Sample ID: 160-12612-4 DU
Matrix: Solid
Analysis Batch: 198992

Client Sample ID: FEEBRIS1D-12.061-062
Prep Type: Total/NA
Prep Batch: 198937

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.35		7.388		SU		0.5	5

Lab Sample ID: LCS 160-198992/5
Matrix: Solid
Analysis Batch: 198992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	6.970		SU		100	99.0 - 101.0

HPLC/IC

Prep Batch: 200038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1 - DL	FEEBRIS1D-3.028-029	Total/NA	Solid	DILeach_Prep	
160-12612-1 DU - DL	FEEBRIS1D-3.028-029	Total/NA	Solid	DILeach_Prep	
160-12612-1 MS - DL	FEEBRIS1D-3.028-029	Total/NA	Solid	DILeach_Prep	
160-12612-2 - DL	FEEBRIS1D-3.041-043	Total/NA	Solid	DILeach_Prep	
160-12612-3 - DL	DUPLICATE # 2	Total/NA	Solid	DILeach_Prep	
160-12612-4 - DL	FEEBRIS1D-12.061-062	Total/NA	Solid	DILeach_Prep	
160-12612-5 - DL	FEEBRIS1D-12.074-075	Total/NA	Solid	DILeach_Prep	
160-12612-6 - DL	FEEBRIS1D-15.077-080	Total/NA	Solid	DILeach_Prep	
160-12612-7 - DL	FEEBRIS1D-15.085-086	Total/NA	Solid	DILeach_Prep	
160-12612-8 - DL	FEEBRIS1D-11.085-086	Total/NA	Solid	DILeach_Prep	
160-12612-9 - DL	FEEBRIS1D-11.087-088	Total/NA	Solid	DILeach_Prep	
160-12612-10 - DL	DUPLICATE # 1	Total/NA	Solid	DILeach_Prep	
LCS 160-200038/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-200038/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 200397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1 - DL	FEEBRIS1D-3.028-029	Total/NA	Solid	9056A	200038
160-12612-1 DU - DL	FEEBRIS1D-3.028-029	Total/NA	Solid	9056A	200038
160-12612-1 MS - DL	FEEBRIS1D-3.028-029	Total/NA	Solid	9056A	200038
160-12612-2 - DL	FEEBRIS1D-3.041-043	Total/NA	Solid	9056A	200038
160-12612-3 - DL	DUPLICATE # 2	Total/NA	Solid	9056A	200038
160-12612-4 - DL	FEEBRIS1D-12.061-062	Total/NA	Solid	9056A	200038
160-12612-5 - DL	FEEBRIS1D-12.074-075	Total/NA	Solid	9056A	200038
160-12612-6 - DL	FEEBRIS1D-15.077-080	Total/NA	Solid	9056A	200038
160-12612-7 - DL	FEEBRIS1D-15.085-086	Total/NA	Solid	9056A	200038
160-12612-8 - DL	FEEBRIS1D-11.085-086	Total/NA	Solid	9056A	200038
160-12612-9 - DL	FEEBRIS1D-11.087-088	Total/NA	Solid	9056A	200038
160-12612-10 - DL	DUPLICATE # 1	Total/NA	Solid	9056A	200038
LCS 160-200038/2-A	Lab Control Sample	Total/NA	Solid	9056A	200038
MB 160-200038/1-A	Method Blank	Total/NA	Solid	9056A	200038

Metals

Prep Batch: 67461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	3050B	
160-12612-1 MS	FEEBRIS1D-3.028-029	Total/NA	Solid	3050B	
160-12612-1 MSD	FEEBRIS1D-3.028-029	Total/NA	Solid	3050B	
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	3050B	
160-12612-3	DUPLICATE # 2	Total/NA	Solid	3050B	
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	3050B	
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	3050B	
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	3050B	
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	3050B	
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	3050B	
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	3050B	
160-12612-10	DUPLICATE # 1	Total/NA	Solid	3050B	
LCS 550-67461/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-67461/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 67461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 550-67461/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 67706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	6010B	67461
160-12612-1 MS	FEEBRIS1D-3.028-029	Total/NA	Solid	6010B	67461
160-12612-1 MSD	FEEBRIS1D-3.028-029	Total/NA	Solid	6010B	67461
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	6010B	67461
160-12612-3	DUPLICATE # 2	Total/NA	Solid	6010B	67461
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	6010B	67461
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	6010B	67461
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	6010B	67461
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	6010B	67461
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	6010B	67461
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	6010B	67461
160-12612-10	DUPLICATE # 1	Total/NA	Solid	6010B	67461
LCS 550-67461/2-A	Lab Control Sample	Total/NA	Solid	6010B	67461
LCSD 550-67461/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	67461
MB 550-67461/1-A	Method Blank	Total/NA	Solid	6010B	67461

Prep Batch: 199133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	7471B	
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	7471B	
160-12612-3	DUPLICATE # 2	Total/NA	Solid	7471B	
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	7471B	
160-12612-4 MS	FEEBRIS1D-12.061-062	Total/NA	Solid	7471B	
160-12612-4 MSD	FEEBRIS1D-12.061-062	Total/NA	Solid	7471B	
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	7471B	
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	7471B	
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	7471B	
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	7471B	
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	7471B	
160-12612-10	DUPLICATE # 1	Total/NA	Solid	7471B	
LCSSRM 160-199133/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-199133/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 199218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	7471B	199133
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	7471B	199133
160-12612-3	DUPLICATE # 2	Total/NA	Solid	7471B	199133
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	7471B	199133
160-12612-4 MS	FEEBRIS1D-12.061-062	Total/NA	Solid	7471B	199133
160-12612-4 MSD	FEEBRIS1D-12.061-062	Total/NA	Solid	7471B	199133
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	7471B	199133
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	7471B	199133
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	7471B	199133
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	7471B	199133
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	7471B	199133
160-12612-10	DUPLICATE # 1	Total/NA	Solid	7471B	199133

Metals (Continued)

Analysis Batch: 199218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 160-199133/2-A	Lab Control Sample	Total/NA	Solid	7471B	199133
MB 160-199133/1-A	Method Blank	Total/NA	Solid	7471B	199133

Prep Batch: 199754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	3050B	
160-12612-1 MS	FEEBRIS1D-3.028-029	Total/NA	Solid	3050B	
160-12612-1 MSD	FEEBRIS1D-3.028-029	Total/NA	Solid	3050B	
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	3050B	
160-12612-3	DUPLICATE # 2	Total/NA	Solid	3050B	
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	3050B	
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	3050B	
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	3050B	
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	3050B	
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	3050B	
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	3050B	
160-12612-10	DUPLICATE # 1	Total/NA	Solid	3050B	
LCS 160-199754/3-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-199754/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-199754/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 200552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-1 MS	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-1 MSD	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	6020A	199754
160-12612-3	DUPLICATE # 2	Total/NA	Solid	6020A	199754
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	6020A	199754
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	6020A	199754
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	6020A	199754
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	6020A	199754
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	6020A	199754
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	6020A	199754
160-12612-10	DUPLICATE # 1	Total/NA	Solid	6020A	199754
LCSSRM 160-199754/2-A	Lab Control Sample	Total/NA	Solid	6020A	199754
MB 160-199754/1-A	Method Blank	Total/NA	Solid	6020A	199754

Analysis Batch: 200645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-1 MS	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-1 MSD	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	6020A	199754
160-12612-3	DUPLICATE # 2	Total/NA	Solid	6020A	199754
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	6020A	199754
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	6020A	199754
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	6020A	199754
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	6020A	199754
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	6020A	199754
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	6020A	199754

Metals (Continued)

Analysis Batch: 200645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-10	DUPLICATE # 1	Total/NA	Solid	6020A	199754
LCS 160-199754/3-A	Lab Control Sample	Total/NA	Solid	6020A	199754
MB 160-199754/1-A	Method Blank	Total/NA	Solid	6020A	199754

Analysis Batch: 200941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-1 MS	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-1 MSD	FEEBRIS1D-3.028-029	Total/NA	Solid	6020A	199754
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	6020A	199754
160-12612-3	DUPLICATE # 2	Total/NA	Solid	6020A	199754
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	6020A	199754
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	6020A	199754
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	6020A	199754
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	6020A	199754
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	6020A	199754
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	6020A	199754
160-12612-10	DUPLICATE # 1	Total/NA	Solid	6020A	199754
LCSSRM 160-199754/2-A	Lab Control Sample	Total/NA	Solid	6020A	199754
MB 160-199754/1-A	Method Blank	Total/NA	Solid	6020A	199754

General Chemistry

Prep Batch: 198937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	DILeach_Prep	
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	DILeach_Prep	
160-12612-3	DUPLICATE # 2	Total/NA	Solid	DILeach_Prep	
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	DILeach_Prep	
160-12612-4 DU	FEEBRIS1D-12.061-062	Total/NA	Solid	DILeach_Prep	
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	DILeach_Prep	
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	DILeach_Prep	
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	DILeach_Prep	
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	DILeach_Prep	
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	DILeach_Prep	
160-12612-10	DUPLICATE # 1	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 198941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	Moisture	
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	Moisture	
160-12612-3	DUPLICATE # 2	Total/NA	Solid	Moisture	
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	Moisture	
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	Moisture	
160-12612-5 DU	FEEBRIS1D-12.074-075	Total/NA	Solid	Moisture	
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	Moisture	
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	Moisture	
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	Moisture	
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	Moisture	
160-12612-10	DUPLICATE # 1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 198992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	9045D	198937
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	9045D	198937
160-12612-3	DUPLICATE # 2	Total/NA	Solid	9045D	198937
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	9045D	198937
160-12612-4 DU	FEEBRIS1D-12.061-062	Total/NA	Solid	9045D	198937
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	9045D	198937
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	9045D	198937
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	9045D	198937
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	9045D	198937
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	9045D	198937
160-12612-10	DUPLICATE # 1	Total/NA	Solid	9045D	198937
LCS 160-198992/5	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 199469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	DILeach_Prep	
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	DILeach_Prep	
160-12612-3	DUPLICATE # 2	Total/NA	Solid	DILeach_Prep	
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	DILeach_Prep	
160-12612-4 DU	FEEBRIS1D-12.061-062	Total/NA	Solid	DILeach_Prep	
160-12612-4 MS	FEEBRIS1D-12.061-062	Total/NA	Solid	DILeach_Prep	
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	DILeach_Prep	
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	DILeach_Prep	
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	DILeach_Prep	
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	DILeach_Prep	
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	DILeach_Prep	
160-12612-10	DUPLICATE # 1	Total/NA	Solid	DILeach_Prep	
HLCS 160-199469/3-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
LCS 160-199469/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-199469/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 199649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12612-1	FEEBRIS1D-3.028-029	Total/NA	Solid	310.1	199469
160-12612-2	FEEBRIS1D-3.041-043	Total/NA	Solid	310.1	199469
160-12612-3	DUPLICATE # 2	Total/NA	Solid	310.1	199469
160-12612-4	FEEBRIS1D-12.061-062	Total/NA	Solid	310.1	199469
160-12612-4 DU	FEEBRIS1D-12.061-062	Total/NA	Solid	310.1	199469
160-12612-4 MS	FEEBRIS1D-12.061-062	Total/NA	Solid	310.1	199469
160-12612-5	FEEBRIS1D-12.074-075	Total/NA	Solid	310.1	199469
160-12612-6	FEEBRIS1D-15.077-080	Total/NA	Solid	310.1	199469
160-12612-7	FEEBRIS1D-15.085-086	Total/NA	Solid	310.1	199469
160-12612-8	FEEBRIS1D-11.085-086	Total/NA	Solid	310.1	199469
160-12612-9	FEEBRIS1D-11.087-088	Total/NA	Solid	310.1	199469
160-12612-10	DUPLICATE # 1	Total/NA	Solid	310.1	199469
HLCS 160-199469/3-A	Lab Control Sample	Total/NA	Solid	310.1	199469
LCS 160-199469/2-A	Lab Control Sample	Total/NA	Solid	310.1	199469
MB 160-199469/1-A	Method Blank	Total/NA	Solid	310.1	199469

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-12766-1
Client Project/Site: West Lake Landfill

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
7/29/2015 1:28:17 PM

Erika Gish, Project Manager II
(314)298-8566
erika.gish@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-12766-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-12766-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 7/14/2015 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

TOTAL METALS (ICP)

Samples FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and FEEBRIS1D-10.074-076 (160-12766-4) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 07/15/2015 and analyzed on 07/17/2015.

Scandium failed the recovery criteria low for the MS/MSD of sample 550-47730-1 in batch 550-68747.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)

Samples FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and

Job ID: 160-12766-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

FEEBRIS1D-10.074-076 (160-12766-4) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 07/17/2015 and analyzed on 07/20/2015 and 07/21/2015.

Aluminum and Sodium were detected in method blank MB 160-200750/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Analytical Batch 201295
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3), FEEBRIS1D-10.074-076 (160-12766-4), (160-12766-A-4-F MS), (160-12766-A-4-G MSD) and (160-12766-A-4-E SD). Elevated reporting limits (RLs) are provided.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-200750 and analytical batch 160-201295 were outside control limits for tantalum. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Analytical Batch 201342
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3), FEEBRIS1D-10.074-076 (160-12766-4), (160-12766-A-4-F MS), (160-12766-A-4-G MSD) and (160-12766-A-4-E SD). Elevated reporting limits (RLs) are provided.

The matrix spike and/or matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-200750 and analytical batch 160-201342 were outside control limits for Arsenic, Barium, Potassium, Magnesium, Manganese, Lead, Niobium and Antimony. Sample matrix interference and are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Due to the high concentration of Aluminum, Copper and Iron, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-200750 and analytical batch 160-201342 could not be evaluated for accuracy and precision. Also the MS was above the linier range for Copper. The associated laboratory control sample (LCS) met acceptance criteria.

The low level continuing calibration verification (CCVL) associated with batch 160-201342 recovered above the upper control limit for Aluminum. The samples associated with this CCVL were greater than 10x the concentration in the CCVL for the affected analytes; therefore, the data have been reported: (CCVL 160-201342/30).

Analytical Batch 201609
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3), FEEBRIS1D-10.074-076 (160-12766-4), (160-12766-A-4-F MS), (160-12766-A-4-G MSD) and (160-12766-A-4-E SD). Elevated reporting limits (RLs) are provided.

Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-200750 and analytical batch 160-201609 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The low level continuing calibration verification (CCVL) associated with batch 160-201609 recovered above the upper control limit for Sodium. The samples however were bracketed by acceptable CCVL for the affected element; therefore, the data have been reported.

The CCVL was outside the QC limits for Calcium. The concentration of this analyte(s) in the sample was at such a high level as to make the analysis of a CCVL unnecessary: (CCVL 160-201609/34).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and FEEBRIS1D-10.074-076 (160-12766-4) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 07/16/2015 and analyzed on 07/17/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 160-12766-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

ALKALINITY
Samples FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and FEEBRIS1D-10.074-076 (160-12766-4) were analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared and analyzed on 07/20/2015.

The matrix spike (MS) recovery for Alkalinity and Bicarbonate Alkalinity was outside control limits in batch 201023: (160-12766-B-1-G MS) . Sample matrix interference is suspected, because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Samples FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and FEEBRIS1D-10.074-076 (160-12766-4) were analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 07/15/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY
Samples FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and FEEBRIS1D-10.074-076 (160-12766-4) were analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 07/15/2015 and analyzed on 07/17/2015.

The following samples were diluted to bring the concentrations of target analytes within the calibration range in Anion batch 200626: FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and FEEBRIS1D-10.074-076 (160-12766-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Samples FEEBRIS1D-19.061-063 (160-12766-1), DUPLICATE # 3 (160-12766-2), FEEBRIS1D-10.046-049 (160-12766-3) and FEEBRIS1D-10.074-076 (160-12766-4) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/16/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/14/15	COC No: 160-2800-1326.5
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			Job / SDG No.:
Project Number: 16002280	☐ 2 days			
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B Moisture - Moisture	6010B - Scandium
			Preservation code					N	N	N	N	N
FEEBRIS1D-19.061-063	7/8/15	1018	G	S	3			✓	✓	✓	✓	✓
DUPLICATE #3	7/8/15	1018	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-10.046-049	7/9/15	1210	G	S	3			✓	✓	✓	✓	✓
FEEBRIS1D-10.074-076	7/12/15	1041	G	S	3			✓	✓	✓	✓	✓

Sample Specific Notes:

160-12766 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	FEI	7/14/15 1115	Received by:	TA St Louis	7-14-15/1115
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

7/29/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gish, Erika K	Carrier Tracking No(s):	COC No: 160-59041.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: erika.gish@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 160-12766-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 7/24/2015			
City: Phoenix	TAT Requested (days):			
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			
Email:	WO #:			
Project Name: West Lake Landfill	Project #: 16002280			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B (MOD) Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FEEBRIS1D-19.061-063 (160-12766-1)	7/8/15	10:18 Central		Solid			X	1	
DUPLICATE # 3 (160-12766-2)	7/8/15	10:18 Central		Solid			X	1	
FEEBRIS1D-10.046-049 (160-12766-3)	7/9/15	12:10 Central		Solid			X	1	
FEEBRIS1D-10.074-076 (160-12766-4)	7/12/15	10:41 Central		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Jill Clark	7/14/15 1700	TAL SL			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/16/15 0830	Company TAL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12766-1

Login Number: 12766
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-12766-1

Login Number: 12766
List Number: 2
Creator: Shoemaker, Cory M

List Source: TestAmerica Phoenix
List Creation: 07/15/15 09:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12766-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6010B	Metals (ICP)	SW846	TAL PHX
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-12766-1	FEEBRIS1D-19.061-063	Solid	07/08/15 10:18	07/14/15 11:15
160-12766-2	DUPLICATE # 3	Solid	07/08/15 10:18	07/14/15 11:15
160-12766-3	FEEBRIS1D-10.046-049	Solid	07/09/15 12:10	07/14/15 11:15
160-12766-4	FEEBRIS1D-10.074-076	Solid	07/12/15 10:41	07/14/15 11:15

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12766-1

Client Sample ID: FEEBRIS1D-19.061-063 — Lab Sample ID: 160-12766-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	240		30	3.0	mg/Kg	5	☼	9056A	Total/NA
Fluoride - DL	9.8		5.9	0.59	mg/Kg	5	☼	9056A	Total/NA
Scandium	1.5	J	5.8	0.54	mg/Kg	1	☼	6010B	Total/NA
Aluminum	4500	B ^	27	9.0	mg/Kg	10	☼	6020A	Total/NA
Arsenic	5.2	J	5.4	1.4	mg/Kg	10	☼	6020A	Total/NA
Barium	130		11	0.51	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.36	J	0.54	0.14	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.32		0.27	0.086	mg/Kg	10	☼	6020A	Total/NA
Calcium	27000		270	31	mg/Kg	10	☼	6020A	Total/NA
Chromium	12		5.4	2.4	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.5		1.1	0.23	mg/Kg	10	☼	6020A	Total/NA
Copper	13		5.4	0.55	mg/Kg	10	☼	6020A	Total/NA
Iron	10000		27	18	mg/Kg	10	☼	6020A	Total/NA
Lead	8.4		1.6	0.54	mg/Kg	10	☼	6020A	Total/NA
Magnesium	7400		270	21	mg/Kg	10	☼	6020A	Total/NA
Manganese	810		2.7	0.42	mg/Kg	10	☼	6020A	Total/NA
Nickel	18		2.7	0.58	mg/Kg	10	☼	6020A	Total/NA
Potassium	990		54	16	mg/Kg	10	☼	6020A	Total/NA
Selenium	2.1	J	2.7	0.85	mg/Kg	10	☼	6020A	Total/NA
Silver	0.26	J	1.1	0.13	mg/Kg	10	☼	6020A	Total/NA
Sodium	450	B	110	36	mg/Kg	10	☼	6020A	Total/NA
Vanadium	15		5.4	4.0	mg/Kg	10	☼	6020A	Total/NA
Zinc	54		27	7.2	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.061		0.039	0.013	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	3800	F1	59	6.4	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	3600	F1	59	6.4	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	200		59	6.4	mg/Kg	1	☼	310.1	Total/NA
pH	8.30		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: DUPLICATE # 3 — Lab Sample ID: 160-12766-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	220		30	3.0	mg/Kg	5	☼	9056A	Total/NA
Fluoride	9.7		5.9	0.59	mg/Kg	5	☼	9056A	Total/NA
Scandium	1.7	J	5.8	0.54	mg/Kg	1	☼	6010B	Total/NA
Aluminum	4500	B ^	26	8.8	mg/Kg	10	☼	6020A	Total/NA
Arsenic	4.1	J	5.3	1.4	mg/Kg	10	☼	6020A	Total/NA
Barium	110		11	0.50	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.35	J	0.53	0.14	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.23	J	0.26	0.085	mg/Kg	10	☼	6020A	Total/NA
Calcium	21000		260	31	mg/Kg	10	☼	6020A	Total/NA
Chromium	8.5		5.3	2.4	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.4		1.1	0.23	mg/Kg	10	☼	6020A	Total/NA
Copper	9.8		5.3	0.53	mg/Kg	10	☼	6020A	Total/NA
Iron	10000		26	17	mg/Kg	10	☼	6020A	Total/NA
Lead	8.1		1.6	0.53	mg/Kg	10	☼	6020A	Total/NA
Magnesium	7400		260	20	mg/Kg	10	☼	6020A	Total/NA
Manganese	580		2.6	0.41	mg/Kg	10	☼	6020A	Total/NA
Nickel	16		2.6	0.57	mg/Kg	10	☼	6020A	Total/NA
Potassium	1100		53	16	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUPLICATE # 3 (Continued) — Lab Sample ID: 160-12766-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	2.4	J	2.6	0.84	mg/Kg	10	☼	6020A	Total/NA
Sodium	410	B	110	35	mg/Kg	10	☼	6020A	Total/NA
Vanadium	15		5.3	3.9	mg/Kg	10	☼	6020A	Total/NA
Zinc	39		26	7.0	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.058		0.035	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	3600		59	6.4	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	3100		59	6.4	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	480		59	6.4	mg/Kg	1	☼	310.1	Total/NA
pH	8.18		0.0994	0.0994	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-10.046-049 — Lab Sample ID: 160-12766-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	1100		32	3.2	mg/Kg	5	☼	9056A	Total/NA
Fluoride	10		6.5	0.65	mg/Kg	5	☼	9056A	Total/NA
Scandium	3.1	J	6.4	0.59	mg/Kg	1	☼	6010B	Total/NA
Aluminum	7900	B ^	29	9.7	mg/Kg	10	☼	6020A	Total/NA
Antimony	0.56	J	2.9	0.38	mg/Kg	10	☼	6020A	Total/NA
Arsenic	9.5		5.8	1.5	mg/Kg	10	☼	6020A	Total/NA
Barium	540		12	0.55	mg/Kg	10	☼	6020A	Total/NA
Beryllium	1.1		0.58	0.15	mg/Kg	10	☼	6020A	Total/NA
Cadmium	1.9		0.29	0.093	mg/Kg	10	☼	6020A	Total/NA
Calcium	9700	^	290	34	mg/Kg	10	☼	6020A	Total/NA
Chromium	22		5.8	2.6	mg/Kg	10	☼	6020A	Total/NA
Cobalt	14		1.2	0.25	mg/Kg	10	☼	6020A	Total/NA
Copper	29		5.8	0.59	mg/Kg	10	☼	6020A	Total/NA
Iron	20000		29	19	mg/Kg	10	☼	6020A	Total/NA
Lead	24		1.7	0.58	mg/Kg	10	☼	6020A	Total/NA
Magnesium	6800		290	22	mg/Kg	10	☼	6020A	Total/NA
Manganese	520		2.9	0.45	mg/Kg	10	☼	6020A	Total/NA
Nickel	37		2.9	0.62	mg/Kg	10	☼	6020A	Total/NA
Potassium	1700		58	17	mg/Kg	10	☼	6020A	Total/NA
Selenium	3.3		2.9	0.92	mg/Kg	10	☼	6020A	Total/NA
Sodium	1100	B	120	39	mg/Kg	10	☼	6020A	Total/NA
Vanadium	42		5.8	4.3	mg/Kg	10	☼	6020A	Total/NA
Zinc	71		29	7.7	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.027	J	0.042	0.014	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1100		64	7.0	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1100		64	7.0	mg/Kg	1	☼	310.1	Total/NA
pH	7.44		0.0995	0.0995	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-10.074-076 — Lab Sample ID: 160-12766-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	37		31	3.1	mg/Kg	5	☼	9056A	Total/NA
Fluoride	6.8		6.3	0.63	mg/Kg	5	☼	9056A	Total/NA
Scandium	4.3	J	6.2	0.57	mg/Kg	1	☼	6010B	Total/NA
Aluminum	8400	^ B	31	10	mg/Kg	10	☼	6020A	Total/NA
Antimony	8.1	F1	3.1	0.40	mg/Kg	10	☼	6020A	Total/NA
Arsenic	5.7	J F1	6.2	1.6	mg/Kg	10	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-10.074-076 (Continued)

Lab Sample ID: 160-12766-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	170	F1	12	0.58	mg/Kg	10	☼	6020A	Total/NA
Beryllium	0.69		0.62	0.16	mg/Kg	10	☼	6020A	Total/NA
Cadmium	0.49		0.31	0.098	mg/Kg	10	☼	6020A	Total/NA
Calcium	5800	^	310	36	mg/Kg	10	☼	6020A	Total/NA
Chromium	14		6.2	2.8	mg/Kg	10	☼	6020A	Total/NA
Cobalt	6.4		1.2	0.26	mg/Kg	10	☼	6020A	Total/NA
Copper	600	F2	6.2	0.62	mg/Kg	10	☼	6020A	Total/NA
Iron	15000		31	20	mg/Kg	10	☼	6020A	Total/NA
Lead	230	F1	1.8	0.62	mg/Kg	10	☼	6020A	Total/NA
Magnesium	4400	F1	310	23	mg/Kg	10	☼	6020A	Total/NA
Manganese	210	F1	3.1	0.47	mg/Kg	10	☼	6020A	Total/NA
Nickel	19		3.1	0.66	mg/Kg	10	☼	6020A	Total/NA
Potassium	2000	F1	62	18	mg/Kg	10	☼	6020A	Total/NA
Selenium	2.4	J	3.1	0.97	mg/Kg	10	☼	6020A	Total/NA
Silver	0.32	J	1.2	0.15	mg/Kg	10	☼	6020A	Total/NA
Sodium	1200	B	120	41	mg/Kg	10	☼	6020A	Total/NA
Vanadium	25		6.2	4.5	mg/Kg	10	☼	6020A	Total/NA
Zinc	110		31	8.2	mg/Kg	10	☼	6020A	Total/NA
Mercury	0.084		0.037	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2600		62	6.7	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1800		62	6.7	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	750		62	6.7	mg/Kg	1	☼	310.1	Total/NA
pH	8.36		0.100	0.100	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-19.061-063

Lab Sample ID: 160-12766-1
Date Collected: 07/08/15 10:18
Matrix: Solid
Date Received: 07/14/15 11:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.0999	0.0999	SU		07/15/15 13:47	07/15/15 16:50	1

Client Sample ID: FEEBRIS1D-19.061-063

Lab Sample ID: 160-12766-1
Date Collected: 07/08/15 10:18
Matrix: Solid
Date Received: 07/14/15 11:15
Percent Solids: 84.3

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	240		30	3.0	mg/Kg	☼	07/15/15 14:21	07/17/15 04:02	5
Fluoride	9.8		5.9	0.59	mg/Kg	☼	07/15/15 14:21	07/17/15 04:02	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.5	J	5.8	0.54	mg/Kg	☼	07/15/15 15:14	07/17/15 19:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4500	B ^	27	9.0	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Antimony	ND		2.7	0.35	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Arsenic	5.2	J	5.4	1.4	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Barium	130		11	0.51	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Beryllium	0.36	J	0.54	0.14	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Cadmium	0.32		0.27	0.086	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Calcium	27000		270	31	mg/Kg	☼	07/17/15 15:58	07/21/15 21:16	10
Chromium	12		5.4	2.4	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Cobalt	6.5		1.1	0.23	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Copper	13		5.4	0.55	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Iron	10000		27	18	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Lead	8.4		1.6	0.54	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Magnesium	7400		270	21	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Manganese	810		2.7	0.42	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Nickel	18		2.7	0.58	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Niobium	ND		14	2.1	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Potassium	990		54	16	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Selenium	2.1	J	2.7	0.85	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Silver	0.26	J	1.1	0.13	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Sodium	450	B	110	36	mg/Kg	☼	07/17/15 15:58	07/21/15 21:16	10
Thallium	ND		2.7	0.82	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Vanadium	15		5.4	4.0	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Zinc	54		27	7.2	mg/Kg	☼	07/17/15 15:58	07/21/15 03:27	10
Tantalum	ND		5.4	0.84	mg/Kg	☼	07/17/15 15:58	07/20/15 22:15	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.039	0.013	mg/Kg	☼	07/16/15 12:53	07/17/15 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3800	F1	59	6.4	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1
Bicarbonate Alkalinity as CaCO3	3600	F1	59	6.4	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12766-1

Client Sample ID: FEEBRIS1D-19.061-063

Lab Sample ID: 160-12766-1
Date Collected: 07/08/15 10:18
Matrix: Solid
Date Received: 07/14/15 11:15
Percent Solids: 84.3

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	200		59	6.4	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1

Client Sample ID: DUPLICATE # 3

Lab Sample ID: 160-12766-2
Date Collected: 07/08/15 10:18
Matrix: Solid
Date Received: 07/14/15 11:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.0994	0.0994	SU		07/15/15 13:47	07/15/15 16:52	1

Client Sample ID: DUPLICATE # 3

Lab Sample ID: 160-12766-2
Date Collected: 07/08/15 10:18
Matrix: Solid
Date Received: 07/14/15 11:15
Percent Solids: 83.9

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	220		30	3.0	mg/Kg	☼	07/15/15 14:21	07/17/15 05:23	5
Fluoride	9.7		5.9	0.59	mg/Kg	☼	07/15/15 14:21	07/17/15 05:23	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.7	J	5.8	0.54	mg/Kg	☼	07/15/15 15:14	07/17/15 19:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4500	B ^	26	8.8	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Antimony	ND		2.6	0.34	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Arsenic	4.1	J	5.3	1.4	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Barium	110		11	0.50	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Beryllium	0.35	J	0.53	0.14	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Cadmium	0.23	J	0.26	0.085	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Calcium	21000		260	31	mg/Kg	☼	07/17/15 15:58	07/21/15 21:23	10
Chromium	8.5		5.3	2.4	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Cobalt	6.4		1.1	0.23	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Copper	9.8		5.3	0.53	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Iron	10000		26	17	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Lead	8.1		1.6	0.53	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Magnesium	7400		260	20	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Manganese	580		2.6	0.41	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Nickel	16		2.6	0.57	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Niobium	ND		13	2.0	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Potassium	1100		53	16	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Selenium	2.4	J	2.6	0.84	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Silver	ND		1.1	0.13	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Sodium	410	B	110	35	mg/Kg	☼	07/17/15 15:58	07/21/15 21:23	10
Thallium	ND		2.6	0.81	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Vanadium	15		5.3	3.9	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Zinc	39		26	7.0	mg/Kg	☼	07/17/15 15:58	07/21/15 03:34	10
Tantalum	ND		5.3	0.83	mg/Kg	☼	07/17/15 15:58	07/20/15 22:20	10

Client Sample ID: DUPLICATE # 3

Lab Sample ID: 160-12766-2
Date Collected: 07/08/15 10:18
Matrix: Solid
Date Received: 07/14/15 11:15
Percent Solids: 83.9

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.035	0.012	mg/Kg	☼	07/16/15 12:53	07/17/15 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3600		59	6.4	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1
Bicarbonate Alkalinity as CaCO3	3100		59	6.4	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1
Carbonate Alkalinity as CaCO3	480		59	6.4	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1

Client Sample ID: FEEBRIS1D-10.046-049

Lab Sample ID: 160-12766-3
Date Collected: 07/09/15 12:10
Matrix: Solid
Date Received: 07/14/15 11:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.44		0.0995	0.0995	SU		07/15/15 13:47	07/15/15 16:54	1

Client Sample ID: FEEBRIS1D-10.046-049

Lab Sample ID: 160-12766-3
Date Collected: 07/09/15 12:10
Matrix: Solid
Date Received: 07/14/15 11:15
Percent Solids: 77.2

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1100		32	3.2	mg/Kg	☼	07/15/15 14:21	07/17/15 06:16	5
Fluoride	10		6.5	0.65	mg/Kg	☼	07/15/15 14:21	07/17/15 06:16	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	3.1	J	6.4	0.59	mg/Kg	☼	07/15/15 15:14	07/17/15 19:56	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7900	B ^	29	9.7	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Antimony	0.56	J	2.9	0.38	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Arsenic	9.5		5.8	1.5	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Barium	540		12	0.55	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Beryllium	1.1		0.58	0.15	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Cadmium	1.9		0.29	0.093	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Calcium	9700	^	290	34	mg/Kg	☼	07/17/15 15:58	07/21/15 21:50	10
Chromium	22		5.8	2.6	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Cobalt	14		1.2	0.25	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Copper	29		5.8	0.59	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Iron	20000		29	19	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Lead	24		1.7	0.58	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Magnesium	6800		290	22	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Manganese	520		2.9	0.45	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Nickel	37		2.9	0.62	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Niobium	ND		15	2.2	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Potassium	1700		58	17	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Selenium	3.3		2.9	0.92	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Silver	ND		1.2	0.14	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Sodium	1100	B	120	39	mg/Kg	☼	07/17/15 15:58	07/21/15 21:50	10

Client Sample ID: FEEBRIS1D-10.046-049

Lab Sample ID: 160-12766-3
Date Collected: 07/09/15 12:10
Matrix: Solid
Date Received: 07/14/15 11:15
Percent Solids: 77.2

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.9	0.88	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Vanadium	**42**		5.8	4.3	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Zinc	**71**		29	7.7	mg/Kg	☼	07/17/15 15:58	07/21/15 03:40	10
Tantalum	ND		5.8	0.91	mg/Kg	☼	07/17/15 15:58	07/20/15 22:24	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**	**J**	0.042	0.014	mg/Kg	☼	07/16/15 12:53	07/17/15 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**1100**		64	7.0	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1
Bicarbonate Alkalinity as CaCO3	**1100**		64	7.0	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1
Carbonate Alkalinity as CaCO3	ND		64	7.0	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1

Client Sample ID: FEEBRIS1D-10.074-076

Lab Sample ID: 160-12766-4
Date Collected: 07/12/15 10:41
Matrix: Solid
Date Received: 07/14/15 11:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.36**		0.100	0.100	SU		07/15/15 13:47	07/15/15 16:56	1

Client Sample ID: FEEBRIS1D-10.074-076

Lab Sample ID: 160-12766-4
Date Collected: 07/12/15 10:41
Matrix: Solid
Date Received: 07/14/15 11:15
Percent Solids: 79.9

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**37**		31	3.1	mg/Kg	☼	07/15/15 14:21	07/17/15 06:43	5
Fluoride	**6.8**		6.3	0.63	mg/Kg	☼	07/15/15 14:21	07/17/15 06:43	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	**4.3**	**J**	6.2	0.57	mg/Kg	☼	07/15/15 15:14	07/17/15 19:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8400**	**^ B**	31	10	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Antimony	**8.1**	**F1**	3.1	0.40	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Arsenic	**5.7**	**J F1**	6.2	1.6	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Barium	**170**	**F1**	12	0.58	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Beryllium	**0.69**		0.62	0.16	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Cadmium	**0.49**		0.31	0.098	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Calcium	**5800**	**^**	310	36	mg/Kg	☼	07/17/15 15:58	07/21/15 21:56	10
Chromium	**14**		6.2	2.8	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Cobalt	**6.4**		1.2	0.26	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Copper	**600**	**F2**	6.2	0.62	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Iron	**15000**		31	20	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Lead	**230**	**F1**	1.8	0.62	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Magnesium	**4400**	**F1**	310	23	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12766-1

Client Sample ID: FEEBRIS1D-10.074-076
Date Collected: 07/12/15 10:41
Date Received: 07/14/15 11:15

Lab Sample ID: 160-12766-4
Matrix: Solid
Percent Solids: 79.9

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**210**	**F1**	3.1	0.47	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Nickel	**19**		3.1	0.66	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Niobium	ND	F1	15	2.3	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Potassium	**2000**	**F1**	62	18	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Selenium	**2.4**	**J**	3.1	0.97	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Silver	**0.32**	**J**	1.2	0.15	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Sodium	**1200**	**B**	120	41	mg/Kg	☼	07/17/15 15:58	07/21/15 21:56	10
Thallium	ND		3.1	0.93	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Vanadium	**25**		6.2	4.5	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Zinc	**110**		31	8.2	mg/Kg	☼	07/17/15 15:58	07/21/15 03:47	10
Tantalum	ND	F1	6.2	0.96	mg/Kg	☼	07/17/15 15:58	07/20/15 22:28	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.084**		0.037	0.012	mg/Kg	☼	07/16/15 12:53	07/17/15 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**2600**		62	6.7	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1
Bicarbonate Alkalinity as CaCO3	**1800**		62	6.7	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1
Carbonate Alkalinity as CaCO3	**750**		62	6.7	mg/Kg	☼	07/20/15 12:08	07/20/15 15:38	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-200388/1-A
Matrix: Solid
Analysis Batch: 200626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.50	mg/Kg		07/15/15 14:21	07/17/15 03:35	1
Fluoride	ND		1.0	0.10	mg/Kg		07/15/15 14:21	07/17/15 03:35	1

Lab Sample ID: LCS 160-200388/2-A
Matrix: Solid
Analysis Batch: 200626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	80.1	76.7		mg/Kg		96	80 - 120
Fluoride	10.0	10.6		mg/Kg		106	80 - 120

Method: 9056A - Anions, Ion Chromatography - DL

Lab Sample ID: 160-12766-1 MS
Matrix: Solid
Analysis Batch: 200626

Client Sample ID: FEEBRIS1D-19.061-063
Prep Type: Total/NA
Prep Batch: 200388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	240		236	472		mg/Kg	☼	96	75 - 121
Fluoride - DL	9.8		118	135		mg/Kg	☼	106	80 - 123

Lab Sample ID: 160-12766-1 DU
Matrix: Solid
Analysis Batch: 200626

Client Sample ID: FEEBRIS1D-19.061-063
Prep Type: Total/NA
Prep Batch: 200388

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	240		247		mg/Kg	☼	1	30
Fluoride - DL	9.8		10.1		mg/Kg	☼	3	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-68064/1-A
Matrix: Solid
Analysis Batch: 68747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		4.9	0.46	mg/Kg		07/15/15 15:14	07/17/15 19:07	1

Lab Sample ID: LCS 550-68064/2-A
Matrix: Solid
Analysis Batch: 68747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	48.9	51.6		mg/Kg		106	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 550-68064/3-A
Matrix: Solid
Analysis Batch: 68747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68064

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium			49.1	51.7		mg/Kg		105	80 - 120	0	20

Lab Sample ID: 550-47730-A-1-D MS
Matrix: Solid
Analysis Batch: 68747

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Scandium	ND	F1	226	99.4	F1	mg/Kg	☼	44	75 - 125		

Lab Sample ID: 550-47730-A-1-E MSD
Matrix: Solid
Analysis Batch: 68747

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68064

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	ND	F1	226	91.2	F1	mg/Kg	☼	40	75 - 125	9	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-200750/1-A
Matrix: Solid
Analysis Batch: 201295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tantalum	ND		0.84	0.13	mg/Kg		07/17/15 15:58	07/20/15 21:54	2

Lab Sample ID: MB 160-200750/1-A
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.69	J	4.2	1.4	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Antimony	ND		0.42	0.055	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Arsenic	ND		0.84	0.22	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Barium	ND		1.7	0.079	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Beryllium	ND		0.084	0.022	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Cadmium	ND		0.042	0.013	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Chromium	ND		0.84	0.38	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Cobalt	ND		0.17	0.036	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Copper	ND		0.84	0.085	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Iron	ND		4.2	2.8	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Lead	ND		0.25	0.084	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Magnesium	ND		42	3.2	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Manganese	ND		0.42	0.065	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Nickel	ND		0.42	0.090	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Niobium	ND		2.1	0.32	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Potassium	ND		8.4	2.5	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Selenium	ND		0.42	0.13	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Silver	ND		0.17	0.020	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Thallium	ND		0.42	0.13	mg/Kg		07/17/15 15:58	07/21/15 02:40	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-200750/1-A
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.84	0.62	mg/Kg		07/17/15 15:58	07/21/15 02:40	2
Zinc	ND		4.2	1.1	mg/Kg		07/17/15 15:58	07/21/15 02:40	2

Lab Sample ID: MB 160-200750/1-A
Matrix: Solid
Analysis Batch: 201609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		42	4.9	mg/Kg		07/17/15 15:58	07/21/15 20:56	2
Sodium	6.41	J	17	5.6	mg/Kg		07/17/15 15:58	07/21/15 20:56	2

Lab Sample ID: LCS 160-200750/3-A
Matrix: Solid
Analysis Batch: 201295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	8.68	7.52		mg/Kg		87	75 - 125

Lab Sample ID: LCS 160-200750/3-A
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	4.34	3.99		mg/Kg		92	80 - 120

Lab Sample ID: LCSSRM 160-200750/2-A
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	7050		mg/Kg		87.5	39.5 - 160.0
Antimony	94.0	66.0		mg/Kg		70.2	22.8 - 257.4
Arsenic	113	122		mg/Kg		108.0	69.7 - 142.5
Barium	155	178		mg/Kg		114.8	72.9 - 127.1
Beryllium	109	126		mg/Kg		115.3	74.7 - 124.8
Cadmium	67.5	71.8		mg/Kg		106.3	73.2 - 126.8
Chromium	164	176		mg/Kg		107.5	70.7 - 129.9
Cobalt	100	114		mg/Kg		114.4	74.4 - 126.0
Copper	128	139		mg/Kg		108.5	75.2 - 125.8
Iron	15200	16200		mg/Kg		106.3	37.4 - 162.5
Lead	90.1	90.2		mg/Kg		100.1	70.1 - 129.9

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-200750/2-A
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	2790	2880		mg/Kg		103.3	65.2 - 135.1
Manganese	363	409		mg/Kg		112.6	75.8 - 124.5
Nickel	89.3	101		mg/Kg		113.1	72.0 - 127.7
Potassium	2770	2790		mg/Kg		100.7	61.7 - 138.3
Selenium	156	171		mg/Kg		109.7	67.3 - 132.1
Silver	52.6	57.0		mg/Kg		108.3	66.7 - 133.5
Thallium	116	124		mg/Kg		106.7	67.4 - 131.9
Vanadium	73.0	75.8		mg/Kg		103.8	59.7 - 139.7
Zinc	168	183		mg/Kg		109.0	69.0 - 131.5

Lab Sample ID: LCSSRM 160-200750/2-A
Matrix: Solid
Analysis Batch: 201609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5850	5980		mg/Kg		102.2	73.7 - 126.5
Sodium	686	741		mg/Kg		108.0	55.8 - 144.2

Lab Sample ID: 160-12766-4 MS
Matrix: Solid
Analysis Batch: 201295

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	ND	F1	12.1	2.34	J F1	mg/Kg	☼	19	75 - 125

Lab Sample ID: 160-12766-4 MS
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8400	^ B	1210	20300	^ 4	mg/Kg	☼	983	75 - 125
Antimony	8.1	F1	60.5	45.0	F1	mg/Kg	☼	61	75 - 125
Arsenic	5.7	J F1	121	158	F1	mg/Kg	☼	126	75 - 125
Barium	170	F1	121	333	F1	mg/Kg	☼	135	75 - 125
Beryllium	0.69		121	135		mg/Kg	☼	111	75 - 125
Cadmium	0.49		121	121		mg/Kg	☼	99	75 - 125
Chromium	14		121	141		mg/Kg	☼	105	75 - 125
Cobalt	6.4		121	133		mg/Kg	☼	104	75 - 125
Copper	600	F2	121	13300	E 4	mg/Kg	☼	10488	75 - 125
Iron	15000		1210	19900	4	mg/Kg	☼	397	75 - 125
Lead	230	F1	121	404	F1	mg/Kg	☼	144	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-12766-4 MS
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	4400	F1	1210	6680	F1	mg/Kg	☼	189	75 - 125
Manganese	210	F1	121	385	F1	mg/Kg	☼	142	75 - 125
Nickel	19		121	150		mg/Kg	☼	108	75 - 125
Niobium	ND	F1	6.05	3.34	J F1	mg/Kg	☼	55	75 - 125
Potassium	2000	F1	1210	4600	F1	mg/Kg	☼	217	75 - 125
Selenium	2.4	J	60.5	60.1		mg/Kg	☼	95	75 - 125
Silver	0.32	J	24.2	24.7		mg/Kg	☼	101	75 - 125
Thallium	ND		24.2	22.8		mg/Kg	☼	94	75 - 125
Vanadium	25		121	166		mg/Kg	☼	116	75 - 125
Zinc	110		121	221		mg/Kg	☼	96	75 - 125

Lab Sample ID: 160-12766-4 MS
Matrix: Solid
Analysis Batch: 201609

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5800	^	1210	7020	4 ^	mg/Kg	☼	100	75 - 125
Sodium	1200	B	1210	2530		mg/Kg	☼	109	75 - 125

Lab Sample ID: 160-12766-4 MSD
Matrix: Solid
Analysis Batch: 201295

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tantalum	ND	F1	11.6	2.26	J F1	mg/Kg	☼	20	75 - 125	3	30

Lab Sample ID: 160-12766-4 MSD
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	8400	^ B	1160	19400	^ 4	mg/Kg	☼	945	75 - 125	5	30
Antimony	8.1	F1	57.8	48.9	F1	mg/Kg	☼	71	75 - 125	8	30
Arsenic	5.7	J F1	116	131		mg/Kg	☼	109	75 - 125	18	30
Barium	170	F1	116	321	F1	mg/Kg	☼	130	75 - 125	4	30
Beryllium	0.69		116	131		mg/Kg	☼	113	75 - 125	3	30
Cadmium	0.49		116	117		mg/Kg	☼	101	75 - 125	3	30
Chromium	14		116	137		mg/Kg	☼	107	75 - 125	3	30
Cobalt	6.4		116	127		mg/Kg	☼	104	75 - 125	4	30
Copper	600	F2	116	1100	4 F2	mg/Kg	☼	429	75 - 125	169	30
Iron	15000		1160	19600	4	mg/Kg	☼	392	75 - 125	1	30
Lead	230	F1	116	440	F1	mg/Kg	☼	182	75 - 125	9	30
Magnesium	4400	F1	1160	6650	F1	mg/Kg	☼	196	75 - 125	0	30
Manganese	210	F1	116	430	F1	mg/Kg	☼	188	75 - 125	11	30
Nickel	19		116	143		mg/Kg	☼	107	75 - 125	5	30
Niobium	ND	F1	5.78	2.99	J F1	mg/Kg	☼	52	75 - 125	11	30
Potassium	2000	F1	1160	4360	F1	mg/Kg	☼	206	75 - 125	5	30
Selenium	2.4	J	57.8	60.8		mg/Kg	☼	101	75 - 125	1	30
Silver	0.32	J	23.1	24.1		mg/Kg	☼	103	75 - 125	3	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-12766-4 MSD
Matrix: Solid
Analysis Batch: 201342

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		23.1	22.8		mg/Kg	☼	99	75 - 125	0	30
Vanadium	25		116	159		mg/Kg	☼	116	75 - 125	4	30
Zinc	110		116	238		mg/Kg	☼	115	75 - 125	8	30

Lab Sample ID: 160-12766-4 MSD
Matrix: Solid
Analysis Batch: 201609

Client Sample ID: FEEBRIS1D-10.074-076
Prep Type: Total/NA
Prep Batch: 200750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	5800	^	1160	7660	4 ^	mg/Kg	☼	160	75 - 125	9	30
Sodium	1200	B	1160	2460		mg/Kg	☼	109	75 - 125	2	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-200597/1-A
Matrix: Solid
Analysis Batch: 200733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.029	0.0095	mg/Kg		07/16/15 12:53	07/17/15 14:07	1

Lab Sample ID: LCSSRM 160-200597/2-A
Matrix: Solid
Analysis Batch: 200733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200597

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.37	7.70		mg/Kg		92.1	51.3 - 148.1

Lab Sample ID: 160-12764-A-1-K MS
Matrix: Solid
Analysis Batch: 200733

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 200597

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.020	J	0.769	0.789		mg/Kg		100	80 - 120

Lab Sample ID: 160-12764-A-1-L MSD
Matrix: Solid
Analysis Batch: 200733

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 200597

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.020	J	0.776	0.772		mg/Kg		97	80 - 120	2	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-200991/1-A
Matrix: Solid
Analysis Batch: 201023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	ND		50	5.4	mg/Kg		07/20/15 12:08	07/20/15 15:38	1
Bicarbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		07/20/15 12:08	07/20/15 15:38	1
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		07/20/15 12:08	07/20/15 15:38	1

Lab Sample ID: HLCS 160-200991/3-A
Matrix: Solid
Analysis Batch: 201023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200991

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			3980	3780		mg/Kg		95	90 - 110		
Bicarbonate Alkalinity as CaCO3			3980	3780		mg/Kg		95	90 - 110		

Lab Sample ID: LCS 160-200991/2-A
Matrix: Solid
Analysis Batch: 201023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200991

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			1990	1910		mg/Kg		96	90 - 110		
Bicarbonate Alkalinity as CaCO3			1990	1910		mg/Kg		96	90 - 110		

Lab Sample ID: 160-12766-1 MS
Matrix: Solid
Analysis Batch: 201023

Client Sample ID: FEEBRIS1D-19.061-063
Prep Type: Total/NA
Prep Batch: 200991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity	3800	F1	1190	5650	F1	mg/Kg	☼	158	75 - 125		
Bicarbonate Alkalinity as CaCO3	3600	F1	1190	5650	F1	mg/Kg	☼	175	75 - 125		

Lab Sample ID: 160-12766-1 DU
Matrix: Solid
Analysis Batch: 201023

Client Sample ID: FEEBRIS1D-19.061-063
Prep Type: Total/NA
Prep Batch: 200991

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	3800	F1		3790		mg/Kg	☼			0.6	30
Bicarbonate Alkalinity as CaCO3	3600	F1		3530		mg/Kg	☼			1	30
Carbonate Alkalinity as CaCO3	200			261		mg/Kg	☼			26	30

Method: 9045D - pH

Lab Sample ID: 160-12764-A-1-F DU
Matrix: Solid
Analysis Batch: 200404

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 200381

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.00			8.008		SU				0.09	5

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-12766-1

Method: 9045D - pH (Continued)

Lab Sample ID: LCS 160-200404/5
Matrix: Solid
Analysis Batch: 200404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.010		SU		100	99.0 - 101.0

HPLC/IC

Prep Batch: 200388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1 - DL	FEEBRIS1D-19.061-063	Total/NA	Solid	DILeach_Prep	
160-12766-1 DU - DL	FEEBRIS1D-19.061-063	Total/NA	Solid	DILeach_Prep	
160-12766-1 MS - DL	FEEBRIS1D-19.061-063	Total/NA	Solid	DILeach_Prep	
160-12766-2	DUPLICATE # 3	Total/NA	Solid	DILeach_Prep	
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	DILeach_Prep	
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	DILeach_Prep	
LCS 160-200388/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-200388/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 200626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1 - DL	FEEBRIS1D-19.061-063	Total/NA	Solid	9056A	200388
160-12766-1 DU - DL	FEEBRIS1D-19.061-063	Total/NA	Solid	9056A	200388
160-12766-1 MS - DL	FEEBRIS1D-19.061-063	Total/NA	Solid	9056A	200388
160-12766-2	DUPLICATE # 3	Total/NA	Solid	9056A	200388
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	9056A	200388
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	9056A	200388
LCS 160-200388/2-A	Lab Control Sample	Total/NA	Solid	9056A	200388
MB 160-200388/1-A	Method Blank	Total/NA	Solid	9056A	200388

Metals

Prep Batch: 68064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	3050B	
160-12766-2	DUPLICATE # 3	Total/NA	Solid	3050B	
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	3050B	
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	3050B	
550-47730-A-1-D MS	Matrix Spike	Total/NA	Solid	3050B	
550-47730-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
LCS 550-68064/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-68064/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 550-68064/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 68747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	6010B	68064
160-12766-2	DUPLICATE # 3	Total/NA	Solid	6010B	68064
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	6010B	68064
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	6010B	68064
550-47730-A-1-D MS	Matrix Spike	Total/NA	Solid	6010B	68064
550-47730-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	68064
LCS 550-68064/2-A	Lab Control Sample	Total/NA	Solid	6010B	68064
LCSD 550-68064/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	68064
MB 550-68064/1-A	Method Blank	Total/NA	Solid	6010B	68064

ISM Prep Batch: 200028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12764-A-1-K MS	Matrix Spike	Total/NA	Solid	Increment, Prep	
160-12764-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	Increment, Prep	

Metals (Continued)

Prep Batch: 200597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12764-A-1-K MS	Matrix Spike	Total/NA	Solid	7471B	200028
160-12764-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	200028
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	7471B	
160-12766-2	DUPLICATE # 3	Total/NA	Solid	7471B	
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	7471B	
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	7471B	
LCSSRM 160-200597/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-200597/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 200733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12764-A-1-K MS	Matrix Spike	Total/NA	Solid	7471B	200597
160-12764-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	200597
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	7471B	200597
160-12766-2	DUPLICATE # 3	Total/NA	Solid	7471B	200597
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	7471B	200597
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	7471B	200597
LCSSRM 160-200597/2-A	Lab Control Sample	Total/NA	Solid	7471B	200597
MB 160-200597/1-A	Method Blank	Total/NA	Solid	7471B	200597

Prep Batch: 200750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	3050B	
160-12766-2	DUPLICATE # 3	Total/NA	Solid	3050B	
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	3050B	
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	3050B	
160-12766-4 MS	FEEBRIS1D-10.074-076	Total/NA	Solid	3050B	
160-12766-4 MSD	FEEBRIS1D-10.074-076	Total/NA	Solid	3050B	
LCS 160-200750/3-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-200750/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-200750/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 201295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	6020A	200750
160-12766-2	DUPLICATE # 3	Total/NA	Solid	6020A	200750
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	6020A	200750
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
160-12766-4 MS	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
160-12766-4 MSD	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
LCS 160-200750/3-A	Lab Control Sample	Total/NA	Solid	6020A	200750
MB 160-200750/1-A	Method Blank	Total/NA	Solid	6020A	200750

Analysis Batch: 201342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	6020A	200750
160-12766-2	DUPLICATE # 3	Total/NA	Solid	6020A	200750
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	6020A	200750
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
160-12766-4 MS	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
160-12766-4 MSD	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750

Metals (Continued)

Analysis Batch: 201342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-200750/3-A	Lab Control Sample	Total/NA	Solid	6020A	200750
LCSSRM 160-200750/2-A	Lab Control Sample	Total/NA	Solid	6020A	200750
MB 160-200750/1-A	Method Blank	Total/NA	Solid	6020A	200750

Analysis Batch: 201609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	6020A	200750
160-12766-2	DUPLICATE # 3	Total/NA	Solid	6020A	200750
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	6020A	200750
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
160-12766-4 MS	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
160-12766-4 MSD	FEEBRIS1D-10.074-076	Total/NA	Solid	6020A	200750
LCSSRM 160-200750/2-A	Lab Control Sample	Total/NA	Solid	6020A	200750
MB 160-200750/1-A	Method Blank	Total/NA	Solid	6020A	200750

General Chemistry

Prep Batch: 200381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12764-A-1-F DU	Duplicate	Total/NA	Solid	DILeach_Prep	
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	DILeach_Prep	
160-12766-2	DUPLICATE # 3	Total/NA	Solid	DILeach_Prep	
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	DILeach_Prep	
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 200404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12764-A-1-F DU	Duplicate	Total/NA	Solid	9045D	200381
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	9045D	200381
160-12766-2	DUPLICATE # 3	Total/NA	Solid	9045D	200381
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	9045D	200381
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	9045D	200381
LCS 160-200404/5	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 200616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	Moisture	
160-12766-2	DUPLICATE # 3	Total/NA	Solid	Moisture	
160-12766-2 DU	DUPLICATE # 3	Total/NA	Solid	Moisture	
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	Moisture	
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	Moisture	

Prep Batch: 200991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	DILeach_Prep	
160-12766-1 DU	FEEBRIS1D-19.061-063	Total/NA	Solid	DILeach_Prep	
160-12766-1 MS	FEEBRIS1D-19.061-063	Total/NA	Solid	DILeach_Prep	
160-12766-2	DUPLICATE # 3	Total/NA	Solid	DILeach_Prep	
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	DILeach_Prep	
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	DILeach_Prep	

General Chemistry (Continued)

Prep Batch: 200991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 160-200991/3-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
LCS 160-200991/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-200991/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 201023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-12766-1	FEEBRIS1D-19.061-063	Total/NA	Solid	310.1	200991
160-12766-1 DU	FEEBRIS1D-19.061-063	Total/NA	Solid	310.1	200991
160-12766-1 MS	FEEBRIS1D-19.061-063	Total/NA	Solid	310.1	200991
160-12766-2	DUPLICATE # 3	Total/NA	Solid	310.1	200991
160-12766-3	FEEBRIS1D-10.046-049	Total/NA	Solid	310.1	200991
160-12766-4	FEEBRIS1D-10.074-076	Total/NA	Solid	310.1	200991
HLCS 160-200991/3-A	Lab Control Sample	Total/NA	Solid	310.1	200991
LCS 160-200991/2-A	Lab Control Sample	Total/NA	Solid	310.1	200991
MB 160-200991/1-A	Method Blank	Total/NA	Solid	310.1	200991

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-13027-1
Client Project/Site: West Lake Landfill

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
8/20/2015 10:30:01 AM

Erika Gish, Project Manager II
(314)298-8566
erika.gish@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-13027-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-13027-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 7/29/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2º C.

Receipt Exceptions

Client does not need chloride for this project.

TOTAL METALS (ICP)

Samples FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7) and DUPLICATE #4 (160-13027-8) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 08/12/2015 and analyzed on 08/13/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 160-13027-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

METALS (ICPMS)

Samples FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7) and DUPLICATE #4 (160-13027-8) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 08/05/2015 and 08/17/2015 and analyzed on 08/12/2015, 08/13/2015 and 08/18/2015.

Prep 205400

Samples were re-extracted due to Nb failing low in the LCS. FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7), DUPLICATE #4 (160-13027-8), (160-13027-A-1 MS) and (160-13027-A-1 MSD)

Prep 206016

Samples were re-extracted due to Nb failing outside the reporting limits in the LCS. FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7), DUPLICATE #4 (160-13027-8), (160-13027-A-1 MS) and (160-13027-A-1 MSD)

Analytical Batch 205352

The following samples were diluted to bring the concentration of target analytes within the calibration range, as well as due to matrix interference, which caused internal standard and QC failures when the samples were run at a lesser dilution: FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7), DUPLICATE #4 (160-13027-8), (160-13027-A-1-I MS), (160-13027-A-1-K MS), (160-13027-A-1-J MSD), (160-13027-A-1-L MSD) and (160-13027-A-1-H SD). Elevated reporting limits (RLs) are provided.

The method blank for preparation batch 160-204016 and analytical batch 160-205352 contained aluminum above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. Antimony, Calcium, and Sodium were detected in method blank MB 160-204016/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Due to the high concentration of aluminum, calcium, iron, and magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205352 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike and/or matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-204016 and analytical batch 160-205352 were outside control limits for potassium, barium, and manganese. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike / matrix spike duplicate (MS/MSD) recovery and precision for lead and zinc was outside control limits, indicating a matrix interference. The sample was a non-homogeneous mixture of soil. The LCS was within acceptable limits. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205352 exceeded control limits for the following analyte(s): tantalum, Note that this analyte is a known poor performer when analyzed using this method. (160-13027-A-1-K MS) and (160-13027-A-1-L MSD)

Due to changes in LRC concentrations, the linear range for tantalum has been lowered (200ppb). The LCS was above the LRC. The LCS was within acceptable QC limits. (LCS 160-204016/4-A)

Analytical Batch 205628

The following samples were diluted due to the nature of the sample matrix. Samples were high in salts which cause internal standard and instrument QC failure. Additionally the digestates were yellow in color indicating a potential matrix interference: FEEBRIS1D-5.063-064

Job ID: 160-13027-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

(160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7), DUPLICATE #4 (160-13027-8), (160-13027-A-1-I MS), (160-13027-A-1-J MSD) and (160-13027-A-1-H SD). Elevated reporting limits (RLs) are provided.

Due to the high concentration of Copper the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205628 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.(160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

Selenium was detected in method blank MB 160-204016/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Analytical Batch 205253
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7), DUPLICATE #4 (160-13027-8), (160-13027-A-1-R MS), (160-13027-A-1-S MSD) and (160-13027-A-1-Q SD). Elevated reporting limits (RLs) are provided.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-206016 and analytical batch 160-206253 were outside control limits for niobium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-13027-A-1-R MS) and (160-13027-A-1-S MSD)

This sample was re-extracted for niobium, due to low LCS recovery. The LCS in the re-extract was spiked at a higher amount than the original digestion. This resulted in a possible carryover of this analyte into the first sample. The result in the first sample was still below the reporting limit, but above the MDL. FEEBRIS1D-5.063-064 (160-13027-1)

Due to changes in LRC concentrations, the linear range for niobium has been lowered (100ppb). The LCS was above the LRC. The LCS was within acceptable QC limits. (LCS 160-206016/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7) and DUPLICATE #4 (160-13027-8) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 08/07/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ALKALINITY
Samples FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7) and DUPLICATE #4 (160-13027-8) were analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared and analyzed on 08/03/2015.

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 160-203602/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Samples FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7) and DUPLICATE #4 (160-13027-8) were analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 07/30/2015.

Job ID: 160-13027-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The following samples in pH soil batch 203175 were received out of 7 day holding time for pH soil: FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3) and FEEBRIS1D-6.085-086 (160-13027-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY

Samples FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7) and DUPLICATE #4 (160-13027-8) were analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 08/04/2015 and analyzed on 08/06/2015.

The following sample was diluted to bring the concentrations of the target analytes within the calibration range in Anion batch 204088: FEEBRIS1D-5.051-052 (160-13027-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples FEEBRIS1D-5.063-064 (160-13027-1), FEEBRIS1D-5.051-052 (160-13027-2), FEEBRIS1D-6.080-081 (160-13027-3), FEEBRIS1D-6.085-086 (160-13027-4), FEEBRIS1D-7.093-094 (160-13027-5), FEEBRIS1D-16.050-051 (160-13027-6), FEEBRIS1D-16.059-061 (160-13027-7) and DUPLICATE #4 (160-13027-8) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/30/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/27/15	COC No: 160-2800-1326.6
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			Job / SDG No.:
Project Number: 16002280	☐ 2 days			
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	FLUORIDE
			Preservation code					N	N	N	N	N	N	
FEEBRIS1D-5.063-064	7/20/15	1426	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-5.051-052	7/20/15	1404	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-6.080-081	7/21/15	0953	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-6.085-086	7/21/15	0958	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-7.093-094	7/24/15	1450	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-16.050-051	7/27/15	0944	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-16.059-061	7/27/15	1014	G	S	3			✓	✓	✓	✓	✓	✓	✓
DUPLICATE #4	7/27/15	1014	G	S	3			✓	✓	✓	✓	✓	✓	✓

160-13027 Chain of Custody

Page 7 of 30

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	FEI	7/29/15 1000		TA	7.29.15 1000
Relinquished by:					
Relinquished by:			Received in Laboratory by:		

35/4

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/20/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gish, Erika K	Carrier Tracking No(s):	COC No: 160-60593.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: erika.gish@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 160-13027-1

Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 8/10/2015
City: Phoenix	TAT Requested (days):
State, Zip: AZ, 85040	
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:
Email:	WO #:
Project Name: West Lake Landfill	Project #: 16002280
Site:	SSOW#:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B (MOD) Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
FEEBRIS1D-5.063-064 (160-13027-1)	7/20/15	14:28 Central		Solid			X	1	
FEEBRIS1D-5.051-052 (160-13027-2)	7/20/15	14:04 Central		Solid			X	1	
FEEBRIS1D-6.080-081 (160-13027-3)	7/21/15	09:53 Central		Solid			X	1	
FEEBRIS1D-6.085-086 (160-13027-4)	7/21/15	09:58 Central		Solid			X	1	
FEEBRIS1D-7.093-094 (160-13027-5)	7/24/15	14:50 Central		Solid			X	1	
FEEBRIS1D-16.050-051 (160-13027-6)	7/27/15	09:44 Central		Solid			X	1	
FEEBRIS1D-16.059-061 (160-13027-7)	7/27/15	10:14 Central		Solid			X	1	
DUPLICATE #4 (160-13027-8)	7/27/15	10:14 Central		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	7.29.15 1700	TAST			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Fed Ex	Date/Time:	Company	Received by:	Date/Time: 7/30/15 9:30	Company TA

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: yes	Cooler Temperature(s) °C and Other Remarks: 2.3°

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-13027-1

Login Number: 13027
List Number: 1
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-13027-1

Login Number: 13027
List Number: 2
Creator: Gravlin, Andrea

List Source: TestAmerica Phoenix
List Creation: 07/30/15 09:44 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13027-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6010B	Metals (ICP)	SW846	TAL PHX
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13027-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-13027-1	FEEBRIS1D-5.063-064	Solid	07/20/15 14:28	07/29/15 10:00
160-13027-2	FEEBRIS1D-5.051-052	Solid	07/20/15 14:04	07/29/15 10:00
160-13027-3	FEEBRIS1D-6.080-081	Solid	07/21/15 09:53	07/29/15 10:00
160-13027-4	FEEBRIS1D-6.085-086	Solid	07/21/15 09:58	07/29/15 10:00
160-13027-5	FEEBRIS1D-7.093-094	Solid	07/24/15 14:50	07/29/15 10:00
160-13027-6	FEEBRIS1D-16.050-051	Solid	07/27/15 09:44	07/29/15 10:00
160-13027-7	FEEBRIS1D-16.059-061	Solid	07/27/15 10:14	07/29/15 10:00
160-13027-8	DUPLICATE #4	Solid	07/27/15 10:14	07/29/15 10:00

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13027-1

Client Sample ID: FEEBRIS1D-5.063-064 — Lab Sample ID: 160-13027-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.6		1.3	0.13	mg/Kg	1	☼	9056A	Total/NA
Sulfate	250		6.5	0.65	mg/Kg	1	☼	9056A	Total/NA
Scandium	1.1	J	6.4	0.60	mg/Kg	1	☼	6010B	Total/NA
Aluminum	4600	F1 B	60	20	mg/Kg	20	☼	6020A	Total/NA
Antimony	11	B	6.0	0.77	mg/Kg	20	☼	6020A	Total/NA
Arsenic	5.1	J	12	3.1	mg/Kg	20	☼	6020A	Total/NA
Barium	190	F1	24	1.1	mg/Kg	20	☼	6020A	Total/NA
Cadmium	1.8		0.60	0.19	mg/Kg	20	☼	6020A	Total/NA
Calcium	29000	B	600	69	mg/Kg	20	☼	6020A	Total/NA
Chromium	20		12	5.4	mg/Kg	20	☼	6020A	Total/NA
Cobalt	5.1		2.4	0.51	mg/Kg	20	☼	6020A	Total/NA
Copper	460	F1 F2	12	1.2	mg/Kg	20	☼	6020A	Total/NA
Iron	11000	F2	60	39	mg/Kg	20	☼	6020A	Total/NA
Lead	190	F2 F1	3.6	1.2	mg/Kg	20	☼	6020A	Total/NA
Magnesium	5100		600	45	mg/Kg	20	☼	6020A	Total/NA
Manganese	190	F1	6.0	0.92	mg/Kg	20	☼	6020A	Total/NA
Nickel	14		6.0	1.3	mg/Kg	20	☼	6020A	Total/NA
Potassium	780	F1	120	36	mg/Kg	20	☼	6020A	Total/NA
Silver	0.94	J	2.4	0.29	mg/Kg	20	☼	6020A	Total/NA
Sodium	460	B	240	80	mg/Kg	20	☼	6020A	Total/NA
Vanadium	11	J	12	8.8	mg/Kg	20	☼	6020A	Total/NA
Zinc	300	F2 F1	60	16	mg/Kg	20	☼	6020A	Total/NA
Niobium - RE	24	J F1	29	4.4	mg/Kg	20	☼	6020A	Total/NA
Mercury	0.40		0.041	0.014	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2600	B	65	7.0	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	2400	B	65	7.0	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	230		65	7.0	mg/Kg	1	☼	310.1	Total/NA
pH	7.69		0.0997	0.0997	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-5.051-052 — Lab Sample ID: 160-13027-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.0		1.9	0.19	mg/Kg	1	☼	9056A	Total/NA
Sulfate - DL	440		190	19	mg/Kg	20	☼	9056A	Total/NA
Aluminum	30000	B	230	76	mg/Kg	50	☼	6020A	Total/NA
Antimony	4.7	J B	23	2.9	mg/Kg	50	☼	6020A	Total/NA
Barium	420		91	4.3	mg/Kg	50	☼	6020A	Total/NA
Cadmium	0.99	J	2.3	0.73	mg/Kg	50	☼	6020A	Total/NA
Calcium	20000	B	2300	260	mg/Kg	50	☼	6020A	Total/NA
Chromium	25	J	45	20	mg/Kg	50	☼	6020A	Total/NA
Cobalt	7.4	J	9.1	2.0	mg/Kg	50	☼	6020A	Total/NA
Copper	130		45	4.6	mg/Kg	50	☼	6020A	Total/NA
Iron	72000		230	150	mg/Kg	50	☼	6020A	Total/NA
Lead	59		14	4.5	mg/Kg	50	☼	6020A	Total/NA
Magnesium	3200		2300	170	mg/Kg	50	☼	6020A	Total/NA
Manganese	1200		23	3.5	mg/Kg	50	☼	6020A	Total/NA
Nickel	18	J	23	4.9	mg/Kg	50	☼	6020A	Total/NA
Potassium	1300		450	140	mg/Kg	50	☼	6020A	Total/NA
Selenium	7.6	J B	23	7.2	mg/Kg	50	☼	6020A	Total/NA
Sodium	3100	B	910	300	mg/Kg	50	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-5.051-052 (Continued) — Lab Sample ID: 160-13027-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	630		230	60	mg/Kg	50	☼	6020A	Total/NA
Niobium - RE	28	J	120	18	mg/Kg	50	☼	6020A	Total/NA
Mercury	0.30		0.056	0.019	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2000	B	97	10	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1500	B	97	10	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	460		97	10	mg/Kg	1	☼	310.1	Total/NA
pH	7.59		0.0997	0.0997	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-6.080-081 — Lab Sample ID: 160-13027-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.5		1.4	0.14	mg/Kg	1	☼	9056A	Total/NA
Sulfate	160		6.8	0.68	mg/Kg	1	☼	9056A	Total/NA
Aluminum	4900	B	66	22	mg/Kg	20	☼	6020A	Total/NA
Antimony	54	B	6.6	0.86	mg/Kg	20	☼	6020A	Total/NA
Arsenic	7.9	J	13	3.5	mg/Kg	20	☼	6020A	Total/NA
Barium	110		27	1.2	mg/Kg	20	☼	6020A	Total/NA
Cadmium	1.1		0.66	0.21	mg/Kg	20	☼	6020A	Total/NA
Calcium	39000	B	660	77	mg/Kg	20	☼	6020A	Total/NA
Chromium	14		13	6.0	mg/Kg	20	☼	6020A	Total/NA
Cobalt	7.1		2.7	0.57	mg/Kg	20	☼	6020A	Total/NA
Copper	5200		13	1.3	mg/Kg	20	☼	6020A	Total/NA
Iron	13000		66	44	mg/Kg	20	☼	6020A	Total/NA
Lead	160		4.0	1.3	mg/Kg	20	☼	6020A	Total/NA
Magnesium	7600		660	50	mg/Kg	20	☼	6020A	Total/NA
Manganese	470		6.6	1.0	mg/Kg	20	☼	6020A	Total/NA
Nickel	20		6.6	1.4	mg/Kg	20	☼	6020A	Total/NA
Potassium	1800		130	40	mg/Kg	20	☼	6020A	Total/NA
Selenium	4.0	J B	6.6	2.1	mg/Kg	20	☼	6020A	Total/NA
Silver	0.40	J	2.7	0.32	mg/Kg	20	☼	6020A	Total/NA
Sodium	620	B	270	89	mg/Kg	20	☼	6020A	Total/NA
Vanadium	14		13	9.8	mg/Kg	20	☼	6020A	Total/NA
Zinc	150		66	18	mg/Kg	20	☼	6020A	Total/NA
Mercury	0.089		0.039	0.013	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	3600	B	69	7.4	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1900	B	69	7.4	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	1600		69	7.4	mg/Kg	1	☼	310.1	Total/NA
pH	8.80		0.100	0.100	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-6.085-086 — Lab Sample ID: 160-13027-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.70	J	1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Sulfate	92		5.9	0.59	mg/Kg	1	☼	9056A	Total/NA
Aluminum	18000	B	54	18	mg/Kg	20	☼	6020A	Total/NA
Antimony	39	B	5.4	0.70	mg/Kg	20	☼	6020A	Total/NA
Arsenic	3.3	J	11	2.8	mg/Kg	20	☼	6020A	Total/NA
Barium	83		21	1.0	mg/Kg	20	☼	6020A	Total/NA
Cadmium	1.7		0.54	0.17	mg/Kg	20	☼	6020A	Total/NA
Calcium	27000	B	540	62	mg/Kg	20	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-6.085-086 (Continued) — Lab Sample ID: 160-13027-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	13		11	4.8	mg/Kg	20	☼	6020A	Total/NA
Cobalt	2.9		2.1	0.46	mg/Kg	20	☼	6020A	Total/NA
Copper	6700		11	1.1	mg/Kg	20	☼	6020A	Total/NA
Iron	14000		54	35	mg/Kg	20	☼	6020A	Total/NA
Lead	360		3.2	1.1	mg/Kg	20	☼	6020A	Total/NA
Magnesium	4100		540	41	mg/Kg	20	☼	6020A	Total/NA
Manganese	130		5.4	0.82	mg/Kg	20	☼	6020A	Total/NA
Nickel	10		5.4	1.1	mg/Kg	20	☼	6020A	Total/NA
Potassium	550		110	32	mg/Kg	20	☼	6020A	Total/NA
Silver	0.72	J	2.1	0.26	mg/Kg	20	☼	6020A	Total/NA
Sodium	810	B	210	71	mg/Kg	20	☼	6020A	Total/NA
Zinc	760		54	14	mg/Kg	20	☼	6020A	Total/NA
Mercury	0.084		0.039	0.013	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1800	B	59	6.4	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1500	B	59	6.4	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	380		59	6.4	mg/Kg	1	☼	310.1	Total/NA
pH	8.44		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-7.093-094 — Lab Sample ID: 160-13027-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.21	J	1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Sulfate	22		6.2	0.62	mg/Kg	1	☼	9056A	Total/NA
Scandium	0.81	J	6.2	0.58	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1800	B	58	19	mg/Kg	20	☼	6020A	Total/NA
Antimony	0.80	J B	5.8	0.75	mg/Kg	20	☼	6020A	Total/NA
Barium	46		23	1.1	mg/Kg	20	☼	6020A	Total/NA
Calcium	1800	B	580	67	mg/Kg	20	☼	6020A	Total/NA
Cobalt	3.9		2.3	0.49	mg/Kg	20	☼	6020A	Total/NA
Copper	3.1	J	12	1.2	mg/Kg	20	☼	6020A	Total/NA
Iron	4900		58	38	mg/Kg	20	☼	6020A	Total/NA
Lead	3.9		3.5	1.2	mg/Kg	20	☼	6020A	Total/NA
Magnesium	1400		580	44	mg/Kg	20	☼	6020A	Total/NA
Manganese	50		5.8	0.89	mg/Kg	20	☼	6020A	Total/NA
Nickel	22		5.8	1.2	mg/Kg	20	☼	6020A	Total/NA
Potassium	390		120	35	mg/Kg	20	☼	6020A	Total/NA
Selenium	2.2	J B	5.8	1.8	mg/Kg	20	☼	6020A	Total/NA
Sodium	190	J B	230	77	mg/Kg	20	☼	6020A	Total/NA
Zinc	16	J	58	15	mg/Kg	20	☼	6020A	Total/NA
Alkalinity	320	B	62	6.7	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	170	B	62	6.7	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	150		62	6.7	mg/Kg	1	☼	310.1	Total/NA
pH	8.40		0.100	0.100	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-16.050-051 — Lab Sample ID: 160-13027-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	13		2.9	0.29	mg/Kg	1	☼	9056A	Total/NA
Sulfate	390		14	1.4	mg/Kg	1	☼	9056A	Total/NA
Scandium	6.1	J	14	1.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-16.050-051 (Continued) — Lab Sample ID: 160-13027-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	18000	B	330	110	mg/Kg	50	☼	6020A	Total/NA
Antimony	4.7	J B	33	4.3	mg/Kg	50	☼	6020A	Total/NA
Barium	370		130	6.2	mg/Kg	50	☼	6020A	Total/NA
Calcium	18000	B	3300	390	mg/Kg	50	☼	6020A	Total/NA
Chromium	34	J	66	30	mg/Kg	50	☼	6020A	Total/NA
Cobalt	17		13	2.8	mg/Kg	50	☼	6020A	Total/NA
Copper	160		66	6.7	mg/Kg	50	☼	6020A	Total/NA
Iron	46000		330	220	mg/Kg	50	☼	6020A	Total/NA
Lead	63		20	6.6	mg/Kg	50	☼	6020A	Total/NA
Magnesium	5500		3300	250	mg/Kg	50	☼	6020A	Total/NA
Manganese	1100		33	5.1	mg/Kg	50	☼	6020A	Total/NA
Nickel	54		33	7.1	mg/Kg	50	☼	6020A	Total/NA
Potassium	3700		660	200	mg/Kg	50	☼	6020A	Total/NA
Sodium	2400	B	1300	440	mg/Kg	50	☼	6020A	Total/NA
Zinc	210	J	330	88	mg/Kg	50	☼	6020A	Total/NA
Mercury	0.13		0.091	0.030	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2000	B	140	16	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1200	B	140	16	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	750		140	16	mg/Kg	1	☼	310.1	Total/NA
pH	8.57		0.0998	0.0998	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-16.059-061 — Lab Sample ID: 160-13027-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.21	J	1.3	0.13	mg/Kg	1	☼	9056A	Total/NA
Sulfate	10		6.4	0.64	mg/Kg	1	☼	9056A	Total/NA
Scandium	0.97	J	6.4	0.60	mg/Kg	1	☼	6010B	Total/NA
Aluminum	2700	B	54	18	mg/Kg	20	☼	6020A	Total/NA
Antimony	0.89	J B	5.4	0.70	mg/Kg	20	☼	6020A	Total/NA
Barium	80		22	1.0	mg/Kg	20	☼	6020A	Total/NA
Calcium	5100	B	540	63	mg/Kg	20	☼	6020A	Total/NA
Chromium	5.6	J	11	4.9	mg/Kg	20	☼	6020A	Total/NA
Cobalt	5.3		2.2	0.46	mg/Kg	20	☼	6020A	Total/NA
Copper	4.8	J	11	1.1	mg/Kg	20	☼	6020A	Total/NA
Iron	8100		54	36	mg/Kg	20	☼	6020A	Total/NA
Lead	5.2		3.2	1.1	mg/Kg	20	☼	6020A	Total/NA
Magnesium	2300		540	41	mg/Kg	20	☼	6020A	Total/NA
Manganese	100		5.4	0.83	mg/Kg	20	☼	6020A	Total/NA
Nickel	13		5.4	1.2	mg/Kg	20	☼	6020A	Total/NA
Potassium	570		110	32	mg/Kg	20	☼	6020A	Total/NA
Selenium	1.7	J B	5.4	1.7	mg/Kg	20	☼	6020A	Total/NA
Sodium	110	J B	220	72	mg/Kg	20	☼	6020A	Total/NA
Vanadium	10	J	11	7.9	mg/Kg	20	☼	6020A	Total/NA
Zinc	25	J	54	14	mg/Kg	20	☼	6020A	Total/NA
Alkalinity	360	B	64	7.0	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	230	B	64	7.0	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	130		64	7.0	mg/Kg	1	☼	310.1	Total/NA
pH	8.49		0.0998	0.0998	SU	1		9045D	Total/NA

Client Sample ID: DUPLICATE #4 — Lab Sample ID: 160-13027-8

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13027-1

Client Sample ID: DUPLICATE #4 (Continued)

Lab Sample ID: 160-13027-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.25	J	1.3	0.13	mg/Kg	1	☼	9056A	Total/NA
Sulfate	21		6.6	0.66	mg/Kg	1	☼	9056A	Total/NA
Scandium	0.93	J	6.5	0.60	mg/Kg	1	☼	6010B	Total/NA
Aluminum	2200	B	58	19	mg/Kg	20	☼	6020A	Total/NA
Antimony	0.81	J B	5.8	0.76	mg/Kg	20	☼	6020A	Total/NA
Barium	69		23	1.1	mg/Kg	20	☼	6020A	Total/NA
Calcium	5600	B	580	68	mg/Kg	20	☼	6020A	Total/NA
Cobalt	4.3		2.3	0.50	mg/Kg	20	☼	6020A	Total/NA
Copper	3.8	J	12	1.2	mg/Kg	20	☼	6020A	Total/NA
Iron	6900		58	38	mg/Kg	20	☼	6020A	Total/NA
Lead	4.6		3.5	1.2	mg/Kg	20	☼	6020A	Total/NA
Magnesium	2200		580	44	mg/Kg	20	☼	6020A	Total/NA
Manganese	85		5.8	0.90	mg/Kg	20	☼	6020A	Total/NA
Nickel	12		5.8	1.2	mg/Kg	20	☼	6020A	Total/NA
Potassium	500		120	35	mg/Kg	20	☼	6020A	Total/NA
Selenium	2.6	J B	5.8	1.8	mg/Kg	20	☼	6020A	Total/NA
Sodium	110	J B	230	78	mg/Kg	20	☼	6020A	Total/NA
Vanadium	8.7	J	12	8.6	mg/Kg	20	☼	6020A	Total/NA
Zinc	21	J	58	16	mg/Kg	20	☼	6020A	Total/NA
Alkalinity	350	B	66	7.2	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	240	B	66	7.2	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	110		66	7.2	mg/Kg	1	☼	310.1	Total/NA
pH	8.49		0.0998	0.0998	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-5.063-064
Date Collected: 07/20/15 14:28
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-1
Matrix: Solid
Percent Solids: 77.4

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.6		1.3	0.13	mg/Kg	☼	08/04/15 16:00	08/06/15 00:51	1
Sulfate	250		6.5	0.65	mg/Kg	☼	08/04/15 16:00	08/06/15 00:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.1	J	6.4	0.60	mg/Kg	☼	08/12/15 09:18	08/13/15 19:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4600	F1 B	60	20	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Antimony	11	B	6.0	0.77	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Arsenic	5.1	J	12	3.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Barium	190	F1	24	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Beryllium	ND		1.2	0.31	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Cadmium	1.8		0.60	0.19	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Calcium	29000	B	600	69	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Chromium	20		12	5.4	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Cobalt	5.1		2.4	0.51	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Copper	460	F1 F2	12	1.2	mg/Kg	☼	08/05/15 08:33	08/13/15 18:10	20
Iron	11000	F2	60	39	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Lead	190	F2 F1	3.6	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Magnesium	5100		600	45	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Manganese	190	F1	6.0	0.92	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Nickel	14		6.0	1.3	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Potassium	780	F1	120	36	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Selenium	ND		6.0	1.9	mg/Kg	☼	08/05/15 08:33	08/13/15 18:10	20
Silver	0.94	J	2.4	0.29	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Sodium	460	B	240	80	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Thallium	ND		6.0	1.8	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Vanadium	11	J	12	8.8	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Zinc	300	F2 F1	60	16	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20
Tantalum	ND	F1	12	1.9	mg/Kg	☼	08/05/15 08:33	08/12/15 18:09	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	24	J F1	29	4.4	mg/Kg	☼	08/17/15 09:40	08/18/15 10:11	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.40		0.041	0.014	mg/Kg	☼	08/07/15 10:37	08/07/15 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2600	B	65	7.0	mg/Kg	☼	08/03/15 12:49	08/03/15 20:30	1
Bicarbonate Alkalinity as CaCO3	2400	B	65	7.0	mg/Kg	☼	08/03/15 12:49	08/03/15 20:30	1
Carbonate Alkalinity as CaCO3	230		65	7.0	mg/Kg	☼	08/03/15 12:49	08/03/15 20:30	1
pH	7.69		0.0997	0.0997	SU		07/30/15 13:09	07/30/15 18:32	1

Client Sample ID: FEEBRIS1D-5.051-052

Date Collected: 07/20/15 14:04
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-2

Matrix: Solid
Percent Solids: 51.5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.0		1.9	0.19	mg/Kg	☼	08/04/15 16:00	08/06/15 01:36	1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	440		190	19	mg/Kg	☼	08/04/15 16:00	08/06/15 01:51	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		9.4	0.88	mg/Kg	☼	08/12/15 09:18	08/13/15 19:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	30000	B	230	76	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Antimony	4.7	J B	23	2.9	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Arsenic	ND		45	12	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Barium	420		91	4.3	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Beryllium	ND		4.5	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Cadmium	0.99	J	2.3	0.73	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Calcium	20000	B	2300	260	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Chromium	25	J	45	20	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Cobalt	7.4	J	9.1	2.0	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Copper	130		45	4.6	mg/Kg	☼	08/05/15 08:33	08/13/15 18:37	50
Iron	72000		230	150	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Lead	59		14	4.5	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Magnesium	3200		2300	170	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Manganese	1200		23	3.5	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Nickel	18	J	23	4.9	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Potassium	1300		450	140	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Selenium	7.6	J B	23	7.2	mg/Kg	☼	08/05/15 08:33	08/13/15 18:37	50
Silver	ND		9.1	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Sodium	3100	B	910	300	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Thallium	ND		23	6.9	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Vanadium	ND		45	33	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Zinc	630		230	60	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50
Tantalum	ND		45	7.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:48	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	28	J	120	18	mg/Kg	☼	08/17/15 09:40	08/18/15 10:29	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.056	0.019	mg/Kg	☼	08/07/15 10:37	08/07/15 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2000	B	97	10	mg/Kg	☼	08/03/15 12:49	08/03/15 20:36	1
Bicarbonate Alkalinity as CaCO3	1500	B	97	10	mg/Kg	☼	08/03/15 12:49	08/03/15 20:36	1
Carbonate Alkalinity as CaCO3	460		97	10	mg/Kg	☼	08/03/15 12:49	08/03/15 20:36	1
pH	7.59		0.0997	0.0997	SU		07/30/15 13:09	07/30/15 18:39	1

Client Sample ID: FEEBRIS1D-6.080-081

Date Collected: 07/21/15 09:53
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-3

Matrix: Solid
Percent Solids: 73.1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.5		1.4	0.14	mg/Kg	☼	08/04/15 16:00	08/06/15 02:50	1
Sulfate	160		6.8	0.68	mg/Kg	☼	08/04/15 16:00	08/06/15 02:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		6.8	0.64	mg/Kg	☼	08/12/15 09:18	08/13/15 19:53	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4900	B	66	22	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Antimony	54	B	6.6	0.86	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Arsenic	7.9	J	13	3.5	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Barium	110		27	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Beryllium	ND		1.3	0.35	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Cadmium	1.1		0.66	0.21	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Calcium	39000	B	660	77	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Chromium	14		13	6.0	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Cobalt	7.1		2.7	0.57	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Copper	5200		13	1.3	mg/Kg	☼	08/05/15 08:33	08/13/15 18:44	20
Iron	13000		66	44	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Lead	160		4.0	1.3	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Magnesium	7600		660	50	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Manganese	470		6.6	1.0	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Nickel	20		6.6	1.4	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Potassium	1800		130	40	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Selenium	4.0	J B	6.6	2.1	mg/Kg	☼	08/05/15 08:33	08/13/15 18:44	20
Silver	0.40	J	2.7	0.32	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Sodium	620	B	270	89	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Thallium	ND		6.6	2.0	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Vanadium	14		13	9.8	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Zinc	150		66	18	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20
Tantalum	ND		13	2.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:52	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		34	5.1	mg/Kg	☼	08/17/15 09:40	08/18/15 10:33	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.039	0.013	mg/Kg	☼	08/07/15 10:37	08/07/15 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3600	B	69	7.4	mg/Kg	☼	08/03/15 12:49	08/03/15 20:41	1
Bicarbonate Alkalinity as CaCO3	1900	B	69	7.4	mg/Kg	☼	08/03/15 12:49	08/03/15 20:41	1
Carbonate Alkalinity as CaCO3	1600		69	7.4	mg/Kg	☼	08/03/15 12:49	08/03/15 20:41	1
pH	8.80		0.100	0.100	SU		07/30/15 13:09	07/30/15 18:42	1

Client Sample ID: FEEBRIS1D-6.085-086
Date Collected: 07/21/15 09:58
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-4
Matrix: Solid
Percent Solids: 84.4

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.70	J	1.2	0.12	mg/Kg	☼	08/04/15 16:00	08/06/15 03:35	1
Sulfate	92		5.9	0.59	mg/Kg	☼	08/04/15 16:00	08/06/15 03:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.8	0.54	mg/Kg	☼	08/12/15 09:18	08/13/15 19:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000	B	54	18	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Antimony	39	B	5.4	0.70	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Arsenic	3.3	J	11	2.8	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Barium	83		21	1.0	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Beryllium	ND		1.1	0.28	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Cadmium	1.7		0.54	0.17	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Calcium	27000	B	540	62	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Chromium	13		11	4.8	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Cobalt	2.9		2.1	0.46	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Copper	6700		11	1.1	mg/Kg	☼	08/05/15 08:33	08/13/15 18:50	20
Iron	14000		54	35	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Lead	360		3.2	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Magnesium	4100		540	41	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Manganese	130		5.4	0.82	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Nickel	10		5.4	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Potassium	550		110	32	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Selenium	ND		5.4	1.7	mg/Kg	☼	08/05/15 08:33	08/13/15 18:50	20
Silver	0.72	J	2.1	0.26	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Sodium	810	B	210	71	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Thallium	ND		5.4	1.6	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Vanadium	ND		11	7.9	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Zinc	760		54	14	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20
Tantalum	ND		11	1.7	mg/Kg	☼	08/05/15 08:33	08/12/15 18:56	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		27	4.1	mg/Kg	☼	08/17/15 09:40	08/18/15 10:37	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.084		0.039	0.013	mg/Kg	☼	08/07/15 10:37	08/07/15 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1800	B	59	6.4	mg/Kg	☼	08/03/15 12:49	08/03/15 20:47	1
Bicarbonate Alkalinity as CaCO3	1500	B	59	6.4	mg/Kg	☼	08/03/15 12:49	08/03/15 20:47	1
Carbonate Alkalinity as CaCO3	380		59	6.4	mg/Kg	☼	08/03/15 12:49	08/03/15 20:47	1
pH	8.44		0.0999	0.0999	SU		07/30/15 13:09	07/30/15 18:45	1

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13027-1

Client Sample ID: FEEBRIS1D-7.093-094
Date Collected: 07/24/15 14:50
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-5
Matrix: Solid
Percent Solids: 80.7

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.21	J	1.2	0.12	mg/Kg	☼	08/04/15 16:00	08/06/15 04:20	1
Sulfate	22		6.2	0.62	mg/Kg	☼	08/04/15 16:00	08/06/15 04:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.81	J	6.2	0.58	mg/Kg	☼	08/12/15 09:18	08/13/15 19:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1800	B	58	19	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Antimony	0.80	J B	5.8	0.75	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Arsenic	ND		12	3.0	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Barium	46		23	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Beryllium	ND		1.2	0.30	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Cadmium	ND		0.58	0.18	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Calcium	1800	B	580	67	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Chromium	ND		12	5.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Cobalt	3.9		2.3	0.49	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Copper	3.1	J	12	1.2	mg/Kg	☼	08/05/15 08:33	08/13/15 19:17	20
Iron	4900		58	38	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Lead	3.9		3.5	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Magnesium	1400		580	44	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Manganese	50		5.8	0.89	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Nickel	22		5.8	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Potassium	390		120	35	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Selenium	2.2	J B	5.8	1.8	mg/Kg	☼	08/05/15 08:33	08/13/15 19:17	20
Silver	ND		2.3	0.28	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Sodium	190	J B	230	77	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Thallium	ND		5.8	1.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Vanadium	ND		12	8.5	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Zinc	16	J	58	15	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20
Tantalum	ND		12	1.8	mg/Kg	☼	08/05/15 08:33	08/12/15 19:01	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		30	4.6	mg/Kg	☼	08/17/15 09:40	08/18/15 10:42	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.036	0.012	mg/Kg	☼	08/07/15 10:37	08/07/15 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	320	B	62	6.7	mg/Kg	☼	08/03/15 12:49	08/03/15 20:52	1
Bicarbonate Alkalinity as CaCO3	170	B	62	6.7	mg/Kg	☼	08/03/15 12:49	08/03/15 20:52	1
Carbonate Alkalinity as CaCO3	150		62	6.7	mg/Kg	☼	08/03/15 12:49	08/03/15 20:52	1
pH	8.40		0.100	0.100	SU		07/30/15 13:09	07/30/15 18:48	1

Client Sample ID: FEEBRIS1D-16.050-051
Date Collected: 07/27/15 09:44
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-6
Matrix: Solid
Percent Solids: 34.8

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	13		2.9	0.29	mg/Kg	☼	08/04/15 16:00	08/06/15 07:04	1
Sulfate	390		14	1.4	mg/Kg	☼	08/04/15 16:00	08/06/15 07:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	6.1	J	14	1.3	mg/Kg	☼	08/12/15 09:18	08/13/15 20:00	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000	B	330	110	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Antimony	4.7	J B	33	4.3	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Arsenic	ND		66	17	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Barium	370		130	6.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Beryllium	ND		6.6	1.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Cadmium	ND		3.3	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Calcium	18000	B	3300	390	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Chromium	34	J	66	30	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Cobalt	17		13	2.8	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Copper	160		66	6.7	mg/Kg	☼	08/05/15 08:33	08/13/15 19:24	50
Iron	46000		330	220	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Lead	63		20	6.6	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Magnesium	5500		3300	250	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Manganese	1100		33	5.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Nickel	54		33	7.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Potassium	3700		660	200	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Selenium	ND		33	10	mg/Kg	☼	08/05/15 08:33	08/13/15 19:24	50
Silver	ND		13	1.6	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Sodium	2400	B	1300	440	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Thallium	ND		33	10	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Vanadium	ND		66	49	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Zinc	210	J	330	88	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50
Tantalum	ND		66	10	mg/Kg	☼	08/05/15 08:33	08/12/15 19:05	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		170	25	mg/Kg	☼	08/17/15 09:40	08/18/15 10:59	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.091	0.030	mg/Kg	☼	08/07/15 10:37	08/07/15 17:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2000	B	140	16	mg/Kg	☼	08/03/15 12:49	08/03/15 21:09	1
Bicarbonate Alkalinity as CaCO3	1200	B	140	16	mg/Kg	☼	08/03/15 12:49	08/03/15 21:09	1
Carbonate Alkalinity as CaCO3	750		140	16	mg/Kg	☼	08/03/15 12:49	08/03/15 21:09	1
pH	8.57		0.0998	0.0998	SU		07/30/15 13:09	07/30/15 18:51	1

Client Sample ID: FEEBRIS1D-16.059-061
Date Collected: 07/27/15 10:14
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-7
Matrix: Solid
Percent Solids: 77.7

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.21	J	1.3	0.13	mg/Kg	☼	08/04/15 16:00	08/06/15 08:19	1
Sulfate	10		6.4	0.64	mg/Kg	☼	08/04/15 16:00	08/06/15 08:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.97	J	6.4	0.60	mg/Kg	☼	08/12/15 09:18	08/13/15 20:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2700	B	54	18	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Antimony	0.89	J B	5.4	0.70	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Arsenic	ND		11	2.8	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Barium	80		22	1.0	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Beryllium	ND		1.1	0.28	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Cadmium	ND		0.54	0.17	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Calcium	5100	B	540	63	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Chromium	5.6	J	11	4.9	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Cobalt	5.3		2.2	0.46	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Copper	4.8	J	11	1.1	mg/Kg	☼	08/05/15 08:33	08/13/15 19:31	20
Iron	8100		54	36	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Lead	5.2		3.2	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Magnesium	2300		540	41	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Manganese	100		5.4	0.83	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Nickel	13		5.4	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Potassium	570		110	32	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Selenium	1.7	J B	5.4	1.7	mg/Kg	☼	08/05/15 08:33	08/13/15 19:31	20
Silver	ND		2.2	0.26	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Sodium	110	J B	220	72	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Thallium	ND		5.4	1.6	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Vanadium	10	J	11	7.9	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Zinc	25	J	54	14	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20
Tantalum	ND		11	1.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:09	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		28	4.2	mg/Kg	☼	08/17/15 09:40	08/18/15 11:03	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.039	0.013	mg/Kg	☼	08/07/15 10:37	08/07/15 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	360	B	64	7.0	mg/Kg	☼	08/03/15 12:49	08/03/15 21:14	1
Bicarbonate Alkalinity as CaCO3	230	B	64	7.0	mg/Kg	☼	08/03/15 12:49	08/03/15 21:14	1
Carbonate Alkalinity as CaCO3	130		64	7.0	mg/Kg	☼	08/03/15 12:49	08/03/15 21:14	1
pH	8.49		0.0998	0.0998	SU		07/30/15 13:09	07/30/15 18:54	1

Client Sample ID: DUPLICATE #4

Date Collected: 07/27/15 10:14
Date Received: 07/29/15 10:00

Lab Sample ID: 160-13027-8

Matrix: Solid
Percent Solids: 75.2

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.25	J	1.3	0.13	mg/Kg	☼	08/04/15 16:00	08/06/15 09:03	1
Sulfate	21		6.6	0.66	mg/Kg	☼	08/04/15 16:00	08/06/15 09:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.93	J	6.5	0.60	mg/Kg	☼	08/12/15 09:18	08/13/15 20:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2200	B	58	19	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Antimony	0.81	J B	5.8	0.76	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Arsenic	ND		12	3.0	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Barium	69		23	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Beryllium	ND		1.2	0.30	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Cadmium	ND		0.58	0.19	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Calcium	5600	B	580	68	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Chromium	ND		12	5.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Cobalt	4.3		2.3	0.50	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Copper	3.8	J	12	1.2	mg/Kg	☼	08/05/15 08:33	08/13/15 19:37	20
Iron	6900		58	38	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Lead	4.6		3.5	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Magnesium	2200		580	44	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Manganese	85		5.8	0.90	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Nickel	12		5.8	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Potassium	500		120	35	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Selenium	2.6	J B	5.8	1.8	mg/Kg	☼	08/05/15 08:33	08/13/15 19:37	20
Silver	ND		2.3	0.28	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Sodium	110	J B	230	78	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Thallium	ND		5.8	1.8	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Vanadium	8.7	J	12	8.6	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Zinc	21	J	58	16	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20
Tantalum	ND		12	1.8	mg/Kg	☼	08/05/15 08:33	08/12/15 19:14	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		30	4.5	mg/Kg	☼	08/17/15 09:40	08/18/15 11:07	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.039	0.013	mg/Kg	☼	08/07/15 10:37	08/07/15 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	350	B	66	7.2	mg/Kg	☼	08/03/15 12:51	08/03/15 21:20	1
Bicarbonate Alkalinity as CaCO3	240	B	66	7.2	mg/Kg	☼	08/03/15 12:51	08/03/15 21:20	1
Carbonate Alkalinity as CaCO3	110		66	7.2	mg/Kg	☼	08/03/15 12:51	08/03/15 21:20	1
pH	8.49		0.0998	0.0998	SU		07/30/15 13:09	07/30/15 18:57	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-203494/1-A
Matrix: Solid
Analysis Batch: 204088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		1.0	0.10	mg/Kg		08/04/15 16:00	08/06/15 00:21	1
Sulfate	ND		5.0	0.50	mg/Kg		08/04/15 16:00	08/06/15 00:21	1

Lab Sample ID: LCS 160-203494/2-A
Matrix: Solid
Analysis Batch: 204088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	9.96	9.84		mg/Kg		99	80 - 120
Sulfate	79.7	76.2		mg/Kg		96	80 - 120

Lab Sample ID: 160-13027-5 MS
Matrix: Solid
Analysis Batch: 204088

Client Sample ID: FEEBRIS1D-7.093-094
Prep Type: Total/NA
Prep Batch: 203494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.21	J	24.7	25.6		mg/Kg	☼	102	80 - 123
Sulfate	22		49.5	69.0		mg/Kg	☼	96	75 - 121

Lab Sample ID: 160-13027-5 DU
Matrix: Solid
Analysis Batch: 204088

Client Sample ID: FEEBRIS1D-7.093-094
Prep Type: Total/NA
Prep Batch: 203494

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.21	J	0.178	J	mg/Kg	☼	17	30
Sulfate	22		21.6		mg/Kg	☼	0.2	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-70213/1-A
Matrix: Solid
Analysis Batch: 70498

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		4.9	0.46	mg/Kg		08/12/15 09:18	08/13/15 19:21	1

Lab Sample ID: LCS 550-70213/2-A
Matrix: Solid
Analysis Batch: 70498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	49.8	51.3		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 550-70213/3-A
Matrix: Solid
Analysis Batch: 70498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70213

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	49.6	51.6		mg/Kg		104	80 - 120	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 160-13027-1 MS
Matrix: Solid
Analysis Batch: 70498

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 70213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	1.1	J	63.3	64.2		mg/Kg	☼	100	75 - 125

Lab Sample ID: 160-13027-1 MSD
Matrix: Solid
Analysis Batch: 70498

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 70213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	1.1	J	62.7	61.1		mg/Kg	☼	96	75 - 125	5	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-204016/1-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7.46		4.3	1.4	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Antimony	0.0747	J	0.43	0.056	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Arsenic	ND		0.87	0.23	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Barium	ND		1.7	0.081	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Beryllium	ND		0.087	0.023	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Cadmium	ND		0.043	0.014	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Calcium	7.11	J	43	5.0	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Chromium	ND		0.87	0.39	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Cobalt	ND		0.17	0.037	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Iron	ND		4.3	2.9	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Lead	ND		0.26	0.087	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Magnesium	ND		43	3.3	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Manganese	ND		0.43	0.067	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Nickel	ND		0.43	0.093	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Potassium	ND		8.7	2.6	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Silver	ND		0.17	0.021	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Sodium	7.34	J	17	5.8	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Thallium	ND		0.43	0.13	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Vanadium	ND		0.87	0.64	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Zinc	ND		4.3	1.2	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Tantalum	ND		0.87	0.14	mg/Kg		08/05/15 08:33	08/12/15 17:34	2

Lab Sample ID: MB 160-204016/1-A
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.87	0.088	mg/Kg		08/05/15 08:33	08/13/15 17:50	2
Selenium	0.156	J	0.43	0.14	mg/Kg		08/05/15 08:33	08/13/15 17:50	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-204016/4-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	187	168		mg/Kg		90	75 - 125

Lab Sample ID: LCSSRM 160-204016/2-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	6750		mg/Kg		83.8	39.5 - 160.0
Antimony	94.0	53.6		mg/Kg		57.1	22.8 - 257.4
Arsenic	113	119		mg/Kg		105.2	69.7 - 142.5
Barium	155	159		mg/Kg		102.4	72.9 - 127.1
Beryllium	109	114		mg/Kg		104.8	74.7 - 124.8
Cadmium	67.5	71.3		mg/Kg		105.6	73.2 - 126.8
Calcium	5850	5880		mg/Kg		100.6	73.7 - 126.5
Chromium	164	173		mg/Kg		105.2	70.7 - 129.9
Cobalt	100	108		mg/Kg		107.6	74.4 - 126.0
Iron	15200	13500		mg/Kg		88.7	37.4 - 162.5
Lead	90.1	89.3		mg/Kg		99.1	70.1 - 129.9
Magnesium	2790	2840		mg/Kg		101.8	65.2 - 135.1
Manganese	363	386		mg/Kg		106.3	75.8 - 124.5
Nickel	89.3	96.6		mg/Kg		108.1	72.0 - 127.7
Potassium	2770	2720		mg/Kg		98.3	61.7 - 138.3
Silver	52.6	54.5		mg/Kg		103.5	66.7 - 133.5
Sodium	686	680		mg/Kg		99.2	55.8 - 144.2
Thallium	116	125		mg/Kg		108.1	67.4 - 131.9
Vanadium	73.0	71.8		mg/Kg		98.3	59.7 - 139.7
Zinc	168	176		mg/Kg		104.7	69.0 - 131.5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-204016/2-A
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	128	136		mg/Kg		106.0	75.2 - 125.8
Selenium	156	161		mg/Kg		103.3	67.3 - 132.1

Lab Sample ID: 160-13027-1 MS
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	4600	F1 B	1120	9750	4	mg/Kg	☼	464	75 - 125
Antimony	11	B	55.9	55.8		mg/Kg	☼	79	75 - 125
Arsenic	5.1	J	112	116		mg/Kg	☼	99	75 - 125
Barium	190	F1	112	299		mg/Kg	☼	99	75 - 125
Beryllium	ND		112	108		mg/Kg	☼	96	75 - 125
Cadmium	1.8		112	109		mg/Kg	☼	96	75 - 125
Calcium	29000	B	1120	26200	4	mg/Kg	☼	-275	75 - 125
Chromium	20		112	135		mg/Kg	☼	103	75 - 125
Cobalt	5.1		112	117		mg/Kg	☼	100	75 - 125
Iron	11000	F2	1120	12500	4	mg/Kg	☼	160	75 - 125
Lead	190	F2 F1	112	382	F1	mg/Kg	☼	173	75 - 125
Magnesium	5100		1120	6540	4	mg/Kg	☼	125	75 - 125
Manganese	190	F1	112	284		mg/Kg	☼	84	75 - 125
Nickel	14		112	124		mg/Kg	☼	99	75 - 125
Potassium	780	F1	1120	2380	F1	mg/Kg	☼	143	75 - 125
Silver	0.94	J	22.3	22.1		mg/Kg	☼	95	75 - 125
Sodium	460	B	1120	1480		mg/Kg	☼	91	75 - 125
Thallium	ND		22.4	21.0		mg/Kg	☼	94	75 - 125
Vanadium	11	J	112	128		mg/Kg	☼	105	75 - 125
Zinc	300	F2 F1	112	686	F1	mg/Kg	☼	343	75 - 125

Lab Sample ID: 160-13027-1 MS
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	ND	F1	241	5.64	J F1	mg/Kg	☼	2	75 - 125

Lab Sample ID: 160-13027-1 MS
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	460	F1 F2	112	921	4	mg/Kg	☼	413	75 - 125
Selenium	ND		55.9	57.5		mg/Kg	☼	103	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-13027-1 MSD
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	4600	F1 B	1230	7210	F1	mg/Kg	☼	215	75 - 125	30	30
Antimony	11	B	61.4	59.8		mg/Kg	☼	79	75 - 125	7	30
Arsenic	5.1	J	123	132		mg/Kg	☼	103	75 - 125	13	30
Barium	190	F1	123	232	F1	mg/Kg	☼	35	75 - 125	25	30
Beryllium	ND		123	120		mg/Kg	☼	97	75 - 125	10	30
Cadmium	1.8		123	124		mg/Kg	☼	100	75 - 125	13	30
Calcium	29000	B	1230	20100	4	mg/Kg	☼	-744	75 - 125	26	30
Chromium	20		123	140		mg/Kg	☼	98	75 - 125	4	30
Cobalt	5.1		123	130		mg/Kg	☼	102	75 - 125	10	30
Iron	11000	F2	1230	8460	4 F2	mg/Kg	☼	-182	75 - 125	38	30
Lead	190	F2 F1	123	275	F1 F2	mg/Kg	☼	71	75 - 125	32	30
Magnesium	5100		1230	5270	4	mg/Kg	☼	10	75 - 125	22	30
Manganese	190	F1	123	249	F1	mg/Kg	☼	48	75 - 125	13	30
Nickel	14		123	135		mg/Kg	☼	98	75 - 125	8	30
Potassium	780	F1	1230	2330	F1	mg/Kg	☼	126	75 - 125	2	30
Silver	0.94	J	24.6	24.8		mg/Kg	☼	97	75 - 125	12	30
Sodium	460	B	1230	1480		mg/Kg	☼	83	75 - 125	0	30
Thallium	ND		24.6	24.4		mg/Kg	☼	99	75 - 125	15	30
Vanadium	11	J	123	136		mg/Kg	☼	102	75 - 125	6	30
Zinc	300	F2 F1	123	293	F1 F2	mg/Kg	☼	-7	75 - 125	80	30

Lab Sample ID: 160-13027-1 MSD
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tantalum	ND	F1	244	4.79	J F1	mg/Kg	☼	2	75 - 125	16	30

Lab Sample ID: 160-13027-1 MSD
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	460	F1 F2	123	469	F1 F2	mg/Kg	☼	7	75 - 125	65	30
Selenium	ND		61.4	69.8		mg/Kg	☼	114	75 - 125	19	30

Lab Sample ID: MB 160-206016/1-A
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		2.2	0.34	mg/Kg		08/17/15 09:40	08/18/15 10:03	2

Lab Sample ID: LCS 160-206016/2-A
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206016

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Niobium			189	187	E	mg/Kg		99	80 - 120		

Method: 6020A - Metals (ICP/MS) - RE

Lab Sample ID: 160-13027-1 MS
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium - RE	24	J F1	245	161	F1	mg/Kg	☼	56	75 - 125

Lab Sample ID: 160-13027-1 MSD
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium - RE	24	J F1	250	168	F1	mg/Kg	☼	57	75 - 125	4	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-204554/1-A
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0099	mg/Kg		08/07/15 10:36	08/07/15 16:59	1

Lab Sample ID: LCSSRM 160-204554/2-A
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.37	7.40		mg/Kg		88.4	51.3 - 148.1

Lab Sample ID: 160-13027-5 MS
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: FEEBRIS1D-7.093-094
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.990	0.989		mg/Kg	☼	100	80 - 120

Lab Sample ID: 160-13027-5 MSD
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: FEEBRIS1D-7.093-094
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.886	0.905		mg/Kg	☼	102	80 - 120	9	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-203602/1-A
Matrix: Solid
Analysis Batch: 203761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	19.9	J	50	5.4	mg/Kg		08/03/15 12:49	08/03/15 20:13	1
Bicarbonate Alkalinity as CaCO3	19.9	J	50	5.4	mg/Kg		08/03/15 12:49	08/03/15 20:13	1

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: MB 160-203602/1-A
Matrix: Solid
Analysis Batch: 203761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		08/03/15 12:49	08/03/15 20:13	1

Lab Sample ID: HLCS 160-203602/3-A
Matrix: Solid
Analysis Batch: 203761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203602

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	4000	3840		mg/Kg		96	90 - 110
Bicarbonate Alkalinity as CaCO3	4000	3840		mg/Kg		96	90 - 110

Lab Sample ID: LCS 160-203602/2-A
Matrix: Solid
Analysis Batch: 203761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	2000	1940		mg/Kg		97	90 - 110
Bicarbonate Alkalinity as CaCO3	2000	1940		mg/Kg		97	90 - 110

Lab Sample ID: 160-13027-5 MS
Matrix: Solid
Analysis Batch: 203761

Client Sample ID: FEEBRIS1D-7.093-094
Prep Type: Total/NA
Prep Batch: 203602

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	320	B	1240	1310		mg/Kg	☼	80	75 - 125
Bicarbonate Alkalinity as CaCO3	170	B	1240	1310		mg/Kg	☼	92	75 - 125

Lab Sample ID: 160-13027-5 DU
Matrix: Solid
Analysis Batch: 203761

Client Sample ID: FEEBRIS1D-7.093-094
Prep Type: Total/NA
Prep Batch: 203602

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	320	B	296		mg/Kg	☼	8	30
Bicarbonate Alkalinity as CaCO3	170	B	148		mg/Kg	☼	16	30
Carbonate Alkalinity as CaCO3	150		148		mg/Kg	☼	0.2	30

Method: 9045D - pH

Lab Sample ID: 160-13027-1 DU
Matrix: Solid
Analysis Batch: 203175

Client Sample ID: FEEBRIS1D-5.063-064
Prep Type: Total/NA
Prep Batch: 203124

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.69		7.691		SU		0	5

Method: 9045D - pH (Continued)

Lab Sample ID: LCS 160-203175/5
Matrix: Solid
Analysis Batch: 203175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	6.980		SU		100	99.0 - 101.0		

HPLC/IC

Prep Batch: 203494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	DILeach_Prep	
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	DILeach_Prep	
160-13027-2 - DL	FEEBRIS1D-5.051-052	Total/NA	Solid	DILeach_Prep	
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	DILeach_Prep	
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	DILeach_Prep	
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	DILeach_Prep	
160-13027-5 DU	FEEBRIS1D-7.093-094	Total/NA	Solid	DILeach_Prep	
160-13027-5 MS	FEEBRIS1D-7.093-094	Total/NA	Solid	DILeach_Prep	
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	DILeach_Prep	
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	DILeach_Prep	
160-13027-8	DUPLICATE #4	Total/NA	Solid	DILeach_Prep	
LCS 160-203494/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-203494/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 204088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	9056A	203494
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	9056A	203494
160-13027-2 - DL	FEEBRIS1D-5.051-052	Total/NA	Solid	9056A	203494
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	9056A	203494
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	9056A	203494
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	9056A	203494
160-13027-5 DU	FEEBRIS1D-7.093-094	Total/NA	Solid	9056A	203494
160-13027-5 MS	FEEBRIS1D-7.093-094	Total/NA	Solid	9056A	203494
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	9056A	203494
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	9056A	203494
160-13027-8	DUPLICATE #4	Total/NA	Solid	9056A	203494
LCS 160-203494/2-A	Lab Control Sample	Total/NA	Solid	9056A	203494
MB 160-203494/1-A	Method Blank	Total/NA	Solid	9056A	203494

Metals

Prep Batch: 70213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MS	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MSD	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	3050B	
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	3050B	
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	3050B	
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	3050B	
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	3050B	
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	3050B	
160-13027-8	DUPLICATE #4	Total/NA	Solid	3050B	
LCS 550-70213/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-70213/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 550-70213/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 70498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	6010B	70213
160-13027-1 MS	FEEBRIS1D-5.063-064	Total/NA	Solid	6010B	70213
160-13027-1 MSD	FEEBRIS1D-5.063-064	Total/NA	Solid	6010B	70213
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	6010B	70213
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	6010B	70213
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	6010B	70213
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	6010B	70213
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	6010B	70213
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	6010B	70213
160-13027-8	DUPLICATE #4	Total/NA	Solid	6010B	70213
LCS 550-70213/2-A	Lab Control Sample	Total/NA	Solid	6010B	70213
LCSD 550-70213/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	70213
MB 550-70213/1-A	Method Blank	Total/NA	Solid	6010B	70213

Prep Batch: 204016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MS	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MS	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MSD	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MSD	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	3050B	
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	3050B	
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	3050B	
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	3050B	
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	3050B	
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	3050B	
160-13027-8	DUPLICATE #4	Total/NA	Solid	3050B	
LCS 160-204016/4-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-204016/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 204554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	7471B	
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	7471B	
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	7471B	
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	7471B	
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	7471B	
160-13027-5 MS	FEEBRIS1D-7.093-094	Total/NA	Solid	7471B	
160-13027-5 MSD	FEEBRIS1D-7.093-094	Total/NA	Solid	7471B	
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	7471B	
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	7471B	
160-13027-8	DUPLICATE #4	Total/NA	Solid	7471B	
LCSSRM 160-204554/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-204554/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 204621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	7471B	204554
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	7471B	204554

Metals (Continued)

Analysis Batch: 204621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	7471B	204554
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	7471B	204554
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	7471B	204554
160-13027-5 MS	FEEBRIS1D-7.093-094	Total/NA	Solid	7471B	204554
160-13027-5 MSD	FEEBRIS1D-7.093-094	Total/NA	Solid	7471B	204554
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	7471B	204554
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	7471B	204554
160-13027-8	DUPLICATE #4	Total/NA	Solid	7471B	204554
LCSSRM 160-204554/2-A	Lab Control Sample	Total/NA	Solid	7471B	204554
MB 160-204554/1-A	Method Blank	Total/NA	Solid	7471B	204554

Analysis Batch: 205352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-1 MS	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-1 MS	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-1 MSD	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-1 MSD	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	6020A	204016
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	6020A	204016
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	6020A	204016
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	6020A	204016
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	6020A	204016
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	6020A	204016
160-13027-8	DUPLICATE #4	Total/NA	Solid	6020A	204016
LCS 160-204016/4-A	Lab Control Sample	Total/NA	Solid	6020A	204016
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	6020A	204016
MB 160-204016/1-A	Method Blank	Total/NA	Solid	6020A	204016

Analysis Batch: 205628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-1 MS	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-1 MSD	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	204016
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	6020A	204016
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	6020A	204016
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	6020A	204016
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	6020A	204016
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	6020A	204016
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	6020A	204016
160-13027-8	DUPLICATE #4	Total/NA	Solid	6020A	204016
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	6020A	204016
MB 160-204016/1-A	Method Blank	Total/NA	Solid	6020A	204016

Prep Batch: 206016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1 - RE	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MS - RE	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-1 MSD - RE	FEEBRIS1D-5.063-064	Total/NA	Solid	3050B	
160-13027-2 - RE	FEEBRIS1D-5.051-052	Total/NA	Solid	3050B	
160-13027-3 - RE	FEEBRIS1D-6.080-081	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 206016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-4 - RE	FEEBRIS1D-6.085-086	Total/NA	Solid	3050B	
160-13027-5 - RE	FEEBRIS1D-7.093-094	Total/NA	Solid	3050B	
160-13027-6 - RE	FEEBRIS1D-16.050-051	Total/NA	Solid	3050B	
160-13027-7 - RE	FEEBRIS1D-16.059-061	Total/NA	Solid	3050B	
160-13027-8 - RE	DUPLICATE #4	Total/NA	Solid	3050B	
LCS 160-206016/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-206016/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 206253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1 - RE	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	206016
160-13027-1 MS - RE	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	206016
160-13027-1 MSD - RE	FEEBRIS1D-5.063-064	Total/NA	Solid	6020A	206016
160-13027-2 - RE	FEEBRIS1D-5.051-052	Total/NA	Solid	6020A	206016
160-13027-3 - RE	FEEBRIS1D-6.080-081	Total/NA	Solid	6020A	206016
160-13027-4 - RE	FEEBRIS1D-6.085-086	Total/NA	Solid	6020A	206016
160-13027-5 - RE	FEEBRIS1D-7.093-094	Total/NA	Solid	6020A	206016
160-13027-6 - RE	FEEBRIS1D-16.050-051	Total/NA	Solid	6020A	206016
160-13027-7 - RE	FEEBRIS1D-16.059-061	Total/NA	Solid	6020A	206016
160-13027-8 - RE	DUPLICATE #4	Total/NA	Solid	6020A	206016
LCS 160-206016/2-A	Lab Control Sample	Total/NA	Solid	6020A	206016
MB 160-206016/1-A	Method Blank	Total/NA	Solid	6020A	206016

General Chemistry

Analysis Batch: 203034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	Moisture	
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	Moisture	
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	Moisture	
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	Moisture	
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	Moisture	
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	Moisture	
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	Moisture	
160-13027-8	DUPLICATE #4	Total/NA	Solid	Moisture	
160-13027-8 DU	DUPLICATE #4	Total/NA	Solid	Moisture	

Prep Batch: 203124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	DILeach_Prep	
160-13027-1 DU	FEEBRIS1D-5.063-064	Total/NA	Solid	DILeach_Prep	
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	DILeach_Prep	
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	DILeach_Prep	
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	DILeach_Prep	
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	DILeach_Prep	
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	DILeach_Prep	
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	DILeach_Prep	
160-13027-8	DUPLICATE #4	Total/NA	Solid	DILeach_Prep	

General Chemistry (Continued)

Analysis Batch: 203175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	9045D	203124
160-13027-1 DU	FEEBRIS1D-5.063-064	Total/NA	Solid	9045D	203124
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	9045D	203124
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	9045D	203124
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	9045D	203124
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	9045D	203124
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	9045D	203124
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	9045D	203124
160-13027-8	DUPLICATE #4	Total/NA	Solid	9045D	203124
LCS 160-203175/5	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 203602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	DILeach_Prep	
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	DILeach_Prep	
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	DILeach_Prep	
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	DILeach_Prep	
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	DILeach_Prep	
160-13027-5 DU	FEEBRIS1D-7.093-094	Total/NA	Solid	DILeach_Prep	
160-13027-5 MS	FEEBRIS1D-7.093-094	Total/NA	Solid	DILeach_Prep	
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	DILeach_Prep	
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	DILeach_Prep	
160-13027-8	DUPLICATE #4	Total/NA	Solid	DILeach_Prep	
HLCS 160-203602/3-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
LCS 160-203602/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-203602/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 203761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-1	FEEBRIS1D-5.063-064	Total/NA	Solid	310.1	203602
160-13027-2	FEEBRIS1D-5.051-052	Total/NA	Solid	310.1	203602
160-13027-3	FEEBRIS1D-6.080-081	Total/NA	Solid	310.1	203602
160-13027-4	FEEBRIS1D-6.085-086	Total/NA	Solid	310.1	203602
160-13027-5	FEEBRIS1D-7.093-094	Total/NA	Solid	310.1	203602
160-13027-5 DU	FEEBRIS1D-7.093-094	Total/NA	Solid	310.1	203602
160-13027-5 MS	FEEBRIS1D-7.093-094	Total/NA	Solid	310.1	203602
160-13027-6	FEEBRIS1D-16.050-051	Total/NA	Solid	310.1	203602
160-13027-7	FEEBRIS1D-16.059-061	Total/NA	Solid	310.1	203602
160-13027-8	DUPLICATE #4	Total/NA	Solid	310.1	203602
HLCS 160-203602/3-A	Lab Control Sample	Total/NA	Solid	310.1	203602
LCS 160-203602/2-A	Lab Control Sample	Total/NA	Solid	310.1	203602
MB 160-203602/1-A	Method Blank	Total/NA	Solid	310.1	203602

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-13102-1
Client Project/Site: West Lake Landfill

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
8/21/2015 10:41:45 AM

Erika Gish, Project Manager II
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-13102-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-13102-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The sample was received on 7/30/2015 3:15 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

Due to sample activity, the analysis could not be performed for Scandium by 6010 at the TestAmerica Phoenix lab. The client was notified and the analysis was canceled.

METALS (ICPMS)

Sample FEEBRIS1D-7.084-085 (160-13102-1) was analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 08/05/2015 and 08/17/2015 and analyzed on 08/12/2015, 08/13/2015 and 08/18/2015.

Prep 205400

Sample was re-extracted due to Nb failing low in the LCS. FEEBRIS1D-7.084-085 (160-13102-1)

Prep 206016

Job ID: 160-13102-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Sample was re-extracted due to Nb failing outside the reporting limits in the LCS. FEEBRIS1D-7.084-085 (160-13102-1)

Analytical Batch 205352
The following samples were diluted to bring the concentration of target analytes within the calibration range, as well as due to matrix interference, which caused internal standard and QC failures when the samples were run at a lesser dilution: FEEBRIS1D-7.084-085 (160-13102-1), (160-13027-A-1-H), (160-13027-A-1-I MS), (160-13027-A-1-K MS), (160-13027-A-1-J MSD), (160-13027-A-1-L MSD) and (160-13027-A-1-H SD). Elevated reporting limits (RLs) are provided.

The method blank for preparation batch 160-204016 and analytical batch 160-205352 contained aluminum above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. Antimony, Calcium, and Sodium were detected in method blank MB 160-204016/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Due to the high concentration of aluminum, calcium, iron, and magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205352 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike and/or matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-204016 and analytical batch 160-205352 were outside control limits for potassium, barium, and manganese. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike / matrix spike duplicate (MS/MSD) recovery and precision for lead and zinc was outside control limits, indicating a matrix interference. The sample was a non-homogeneous mixture of soil. The LCS was within acceptable limits. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205352 exceeded control limits for the following analyte(s): tantalum, Note that this analyte is a known poor performer when analyzed using this method. (160-13027-A-1-K MS) and (160-13027-A-1-L MSD)

Due to changes in LRC concentrations, the linear range for tantalum has been lowered (200ppb). The LCS was above the LRC. The LCS was within acceptable QC limits. (LCS 160-204016/4-A)

Analytical Batch 205628
The following samples were diluted due to the nature of the sample matrix. Samples were high in salts which cause internal standard and instrument QC failure. Additionally the digestates were yellow in color indicating a potential matrix interference: FEEBRIS1D-7.084-085 (160-13102-1), (160-13027-A-1-H), (160-13027-A-1-I MS), (160-13027-A-1-J MSD) and (160-13027-A-1-H SD). Elevated reporting limits (RLs) are provided.

Selenium was detected in method blank MB 160-204016/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Due to the high concentration of Copper the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205628 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.(160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

Analytical Batch 206523
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-7.084-085 (160-13102-1), (160-13027-A-1-Q), (160-13027-A-1-R MS), (160-13027-A-1-S MSD) and (160-13027-A-1-Q SD). Elevated reporting limits (RLs) are provided.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-206016 and analytical batch 160-206253 were outside control limits for niobium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-13027-A-1-R MS) and (160-13027-A-1-S MSD)

Job ID: 160-13102-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

This sample was re-extracted for niobium, due to low LCS recovery. The LCS in the re-extract was spiked at a higher amount than the original digestion. This resulted in a possible carryover of this analyte into the first sample. The result in the first sample was still below the reporting limit, but above the MDL. (160-13027-A-1-Q)

Due to changes in LRC concentrations, the linear range for niobium has been lowered (100ppb). The LCS was above the LRC. The LCS was within acceptable QC limits. (LCS 160-206016/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY

Sample FEEBRIS1D-7.084-085 (160-13102-1) was analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 08/07/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ALKALINITY

Sample FEEBRIS1D-7.084-085 (160-13102-1) was analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared and analyzed on 08/05/2015.

Alkalinity and Bicarbonate Alkalinity as CaCO3 were detected in method blank MB 160-204054/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample FEEBRIS1D-7.084-085 (160-13102-1) was analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 08/04/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY

Sample FEEBRIS1D-7.084-085 (160-13102-1) was analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 08/06/2015 and analyzed on 08/07/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

PERCENT SOLIDS

Sample FEEBRIS1D-7.084-085 (160-13102-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 08/04/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Chain of Custody Record

TestAmerica
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Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/30/15	COC No: 160-2800-1326.8
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks			Lab Sampling:
Project Name: West Lake Landfill	☑ 1 week			Job / SDG No.:
Project Number: 16002280	☐ 2 days			
P O # Not Required	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	FLUORIDE
			Preservation code					N	N	N	N	N	N	
FEEBRIS1D-7.084-085	7/24/15	0807	G	S	2			✓	✓	✓	✓	✓	✓	✓

Sample Specific Notes:

160-13102 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested. Radiologically impacted sample

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	FEI	7/30/15 1515		TA STL	7.30.15 1515
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-13102-1

Login Number: 13102
List Number: 1
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13102-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13102-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-13102-1	FEEBRIS1D-7.084-085	Solid	07/24/15 08:07	07/30/15 15:15

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13102-1

Client Sample ID: FEEBRIS1D-7.084-085

Lab Sample ID: 160-13102-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	14		1.3	0.13	mg/Kg	1	☼	9056A	Total/NA
Sulfate	76		6.3	0.63	mg/Kg	1	☼	9056A	Total/NA
Aluminum	3600	B	60	20	mg/Kg	20	☼	6020A	Total/NA
Antimony	0.96	J B	6.0	0.78	mg/Kg	20	☼	6020A	Total/NA
Arsenic	39		12	3.1	mg/Kg	20	☼	6020A	Total/NA
Barium	4800		24	1.1	mg/Kg	20	☼	6020A	Total/NA
Beryllium	0.48	J	1.2	0.31	mg/Kg	20	☼	6020A	Total/NA
Cadmium	1.3		0.60	0.19	mg/Kg	20	☼	6020A	Total/NA
Calcium	13000	B	600	70	mg/Kg	20	☼	6020A	Total/NA
Chromium	14		12	5.4	mg/Kg	20	☼	6020A	Total/NA
Cobalt	520		2.4	0.52	mg/Kg	20	☼	6020A	Total/NA
Copper	580		12	1.2	mg/Kg	20	☼	6020A	Total/NA
Iron	6700		60	40	mg/Kg	20	☼	6020A	Total/NA
Lead	3500		3.6	1.2	mg/Kg	20	☼	6020A	Total/NA
Magnesium	3300		600	46	mg/Kg	20	☼	6020A	Total/NA
Manganese	210		6.0	0.92	mg/Kg	20	☼	6020A	Total/NA
Nickel	740		6.0	1.3	mg/Kg	20	☼	6020A	Total/NA
Potassium	540		120	36	mg/Kg	20	☼	6020A	Total/NA
Selenium	80	B	6.0	1.9	mg/Kg	20	☼	6020A	Total/NA
Silver	0.30	J	2.4	0.29	mg/Kg	20	☼	6020A	Total/NA
Sodium	420	B	240	80	mg/Kg	20	☼	6020A	Total/NA
Vanadium	150		12	8.8	mg/Kg	20	☼	6020A	Total/NA
Zinc	56	J	60	16	mg/Kg	20	☼	6020A	Total/NA
Mercury	0.37		0.040	0.013	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	880	B	63	6.8	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	680	B	63	6.8	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	200		63	6.8	mg/Kg	1	☼	310.1	Total/NA
pH	8.26		0.100	0.100	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-7.084-085
Date Collected: 07/24/15 08:07
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13102-1
Matrix: Solid
Percent Solids: 79.6

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	14		1.3	0.13	mg/Kg	☼	08/06/15 14:00	08/07/15 12:21	1
Sulfate	76		6.3	0.63	mg/Kg	☼	08/06/15 14:00	08/07/15 12:21	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3600	B	60	20	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Antimony	0.96	J B	6.0	0.78	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Arsenic	39		12	3.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Barium	4800		24	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Beryllium	0.48	J	1.2	0.31	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Cadmium	1.3		0.60	0.19	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Calcium	13000	B	600	70	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Chromium	14		12	5.4	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Cobalt	520		2.4	0.52	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Copper	580		12	1.2	mg/Kg	☼	08/05/15 08:33	08/13/15 18:03	20
Iron	6700		60	40	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Lead	3500		3.6	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Magnesium	3300		600	46	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Manganese	210		6.0	0.92	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Nickel	740		6.0	1.3	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Potassium	540		120	36	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Selenium	80	B	6.0	1.9	mg/Kg	☼	08/05/15 08:33	08/13/15 18:03	20
Silver	0.30	J	2.4	0.29	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Sodium	420	B	240	80	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Thallium	ND		6.0	1.8	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Vanadium	150		12	8.8	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Zinc	56	J	60	16	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20
Tantalum	ND		12	1.9	mg/Kg	☼	08/05/15 08:33	08/12/15 18:04	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		29	4.5	mg/Kg	☼	08/17/15 09:40	08/18/15 11:12	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.040	0.013	mg/Kg	☼	08/07/15 10:37	08/07/15 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	880	B	63	6.8	mg/Kg	☼	08/05/15 12:47	08/05/15 19:34	1
Bicarbonate Alkalinity as CaCO3	680	B	63	6.8	mg/Kg	☼	08/05/15 12:47	08/05/15 19:34	1
Carbonate Alkalinity as CaCO3	200		63	6.8	mg/Kg	☼	08/05/15 12:47	08/05/15 19:34	1
pH	8.26		0.100	0.100	SU		08/04/15 15:26	08/04/15 18:12	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-204123/1-A
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		1.0	0.10	mg/Kg		08/06/15 14:00	08/07/15 05:08	1
Sulfate	ND		5.0	0.50	mg/Kg		08/06/15 14:00	08/07/15 05:08	1

Lab Sample ID: LCS 160-204123/2-A
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	9.95	9.89		mg/Kg		99	80 - 120
Sulfate	79.6	75.7		mg/Kg		95	80 - 120

Lab Sample ID: 160-13103-A-2-J MS
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.67	J	23.9	25.9		mg/Kg	☼	106	80 - 123
Sulfate	180		47.7	226		mg/Kg	☼	101	75 - 121

Lab Sample ID: 160-13103-A-2-I DU
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 204123

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.67	J	0.682	J	mg/Kg	☼	2	30
Sulfate	180		173		mg/Kg	☼	3	30

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-204016/1-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7.46		4.3	1.4	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Antimony	0.0747	J	0.43	0.056	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Arsenic	ND		0.87	0.23	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Barium	ND		1.7	0.081	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Beryllium	ND		0.087	0.023	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Cadmium	ND		0.043	0.014	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Calcium	7.11	J	43	5.0	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Chromium	ND		0.87	0.39	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Cobalt	ND		0.17	0.037	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Iron	ND		4.3	2.9	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Lead	ND		0.26	0.087	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Magnesium	ND		43	3.3	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Manganese	ND		0.43	0.067	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Nickel	ND		0.43	0.093	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Potassium	ND		8.7	2.6	mg/Kg		08/05/15 08:33	08/12/15 17:34	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-204016/1-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.17	0.021	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Sodium	7.34	J	17	5.8	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Thallium	ND		0.43	0.13	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Vanadium	ND		0.87	0.64	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Zinc	ND		4.3	1.2	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Tantalum	ND		0.87	0.14	mg/Kg		08/05/15 08:33	08/12/15 17:34	2

Lab Sample ID: MB 160-204016/1-A
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.87	0.088	mg/Kg		08/05/15 08:33	08/13/15 17:50	2
Selenium	0.156	J	0.43	0.14	mg/Kg		08/05/15 08:33	08/13/15 17:50	2

Lab Sample ID: LCS 160-204016/4-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	187	168		mg/Kg		90	75 - 125

Lab Sample ID: LCSSRM 160-204016/2-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	6750		mg/Kg		83.8	39.5 - 160.0
Antimony	94.0	53.6		mg/Kg		57.1	22.8 - 257.4
Arsenic	113	119		mg/Kg		105.2	69.7 - 142.5
Barium	155	159		mg/Kg		102.4	72.9 - 127.1
Beryllium	109	114		mg/Kg		104.8	74.7 - 124.8
Cadmium	67.5	71.3		mg/Kg		105.6	73.2 - 126.8
Calcium	5850	5880		mg/Kg		100.6	73.7 - 126.5
Chromium	164	173		mg/Kg		105.2	70.7 - 129.9
Cobalt	100	108		mg/Kg		107.6	74.4 - 126.0
Iron	15200	13500		mg/Kg		88.7	37.4 - 162.5
Lead	90.1	89.3		mg/Kg		99.1	70.1 - 129.9
Magnesium	2790	2840		mg/Kg		101.8	65.2 - 135.1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-204016/2-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	363	386		mg/Kg		106.3	75.8 - 124.5
Nickel	89.3	96.6		mg/Kg		108.1	72.0 - 127.7
Potassium	2770	2720		mg/Kg		98.3	61.7 - 138.3
Silver	52.6	54.5		mg/Kg		103.5	66.7 - 133.5
Sodium	686	680		mg/Kg		99.2	55.8 - 144.2
Thallium	116	125		mg/Kg		108.1	67.4 - 131.9
Vanadium	73.0	71.8		mg/Kg		98.3	59.7 - 139.7
Zinc	168	176		mg/Kg		104.7	69.0 - 131.5

Lab Sample ID: LCSSRM 160-204016/2-A
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	128	136		mg/Kg		106.0	75.2 - 125.8
Selenium	156	161		mg/Kg		103.3	67.3 - 132.1

Lab Sample ID: 160-13027-A-1-I MS
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	4600	B F1	1120	9750	4	mg/Kg	☼	464	75 - 125
Antimony	11	B	55.9	55.8		mg/Kg	☼	79	75 - 125
Arsenic	5.1	J	112	116		mg/Kg	☼	99	75 - 125
Barium	190	F1	112	299		mg/Kg	☼	99	75 - 125
Beryllium	ND		112	108		mg/Kg	☼	96	75 - 125
Cadmium	1.8		112	109		mg/Kg	☼	96	75 - 125
Calcium	29000	B	1120	26200	4	mg/Kg	☼	-275	75 - 125
Chromium	20		112	135		mg/Kg	☼	103	75 - 125
Cobalt	5.1		112	117		mg/Kg	☼	100	75 - 125
Iron	11000	F2	1120	12500	4	mg/Kg	☼	160	75 - 125
Lead	190	F1 F2	112	382	F1	mg/Kg	☼	173	75 - 125
Magnesium	5100		1120	6540	4	mg/Kg	☼	125	75 - 125
Manganese	190	F1	112	284		mg/Kg	☼	84	75 - 125
Nickel	14		112	124		mg/Kg	☼	99	75 - 125
Potassium	780	F1	1120	2380	F1	mg/Kg	☼	143	75 - 125
Silver	0.94	J	22.3	22.1		mg/Kg	☼	95	75 - 125
Sodium	460	B	1120	1480		mg/Kg	☼	91	75 - 125
Thallium	ND		22.4	21.0		mg/Kg	☼	94	75 - 125
Vanadium	11	J	112	128		mg/Kg	☼	105	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-13027-A-1-I MS
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	300	F1 F2	112	686	F1	mg/Kg	☼	343	75 - 125

Lab Sample ID: 160-13027-A-1-I MS
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	460	F1 F2	112	921	4	mg/Kg	☼	413	75 - 125
Selenium	ND		55.9	57.5		mg/Kg	☼	103	75 - 125

Lab Sample ID: 160-13027-A-1-J MSD
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	4600	B F1	1230	7210	F1	mg/Kg	☼	215	75 - 125	30	30
Antimony	11	B	61.4	59.8		mg/Kg	☼	79	75 - 125	7	30
Arsenic	5.1	J	123	132		mg/Kg	☼	103	75 - 125	13	30
Barium	190	F1	123	232	F1	mg/Kg	☼	35	75 - 125	25	30
Beryllium	ND		123	120		mg/Kg	☼	97	75 - 125	10	30
Cadmium	1.8		123	124		mg/Kg	☼	100	75 - 125	13	30
Calcium	29000	B	1230	20100	4	mg/Kg	☼	-744	75 - 125	26	30
Chromium	20		123	140		mg/Kg	☼	98	75 - 125	4	30
Cobalt	5.1		123	130		mg/Kg	☼	102	75 - 125	10	30
Iron	11000	F2	1230	8460	4 F2	mg/Kg	☼	-182	75 - 125	38	30
Lead	190	F1 F2	123	275	F1 F2	mg/Kg	☼	71	75 - 125	32	30
Magnesium	5100		1230	5270	4	mg/Kg	☼	10	75 - 125	22	30
Manganese	190	F1	123	249	F1	mg/Kg	☼	48	75 - 125	13	30
Nickel	14		123	135		mg/Kg	☼	98	75 - 125	8	30
Potassium	780	F1	1230	2330	F1	mg/Kg	☼	126	75 - 125	2	30
Silver	0.94	J	24.6	24.8		mg/Kg	☼	97	75 - 125	12	30
Sodium	460	B	1230	1480		mg/Kg	☼	83	75 - 125	0	30
Thallium	ND		24.6	24.4		mg/Kg	☼	99	75 - 125	15	30
Vanadium	11	J	123	136		mg/Kg	☼	102	75 - 125	6	30
Zinc	300	F1 F2	123	293	F1 F2	mg/Kg	☼	-7	75 - 125	80	30

Lab Sample ID: 160-13027-A-1-J MSD
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	460	F1 F2	123	469	F1 F2	mg/Kg	☼	7	75 - 125	65	30
Selenium	ND		61.4	69.8		mg/Kg	☼	114	75 - 125	19	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-13027-A-1-K MS
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	ND	F1	241	5.64	J F1	mg/Kg	☼	2	75 - 125

Lab Sample ID: 160-13027-A-1-L MSD
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tantalum	ND	F1	244	4.79	J F1	mg/Kg	☼	2	75 - 125	16	30

Lab Sample ID: MB 160-206016/1-A
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		2.2	0.34	mg/Kg		08/17/15 09:40	08/18/15 10:03	2

Lab Sample ID: LCS 160-206016/2-A
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	189	187	E	mg/Kg		99	80 - 120

Method: 6020A - Metals (ICP/MS) - RE

Lab Sample ID: 160-13027-A-1-R MS
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium - RE	24	J F1	245	161	F1	mg/Kg	☼	56	75 - 125

Lab Sample ID: 160-13027-A-1-S MSD
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium - RE	24	J F1	250	168	F1	mg/Kg	☼	57	75 - 125	4	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-204554/1-A
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0099	mg/Kg		08/07/15 10:36	08/07/15 16:59	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 160-204554/2-A
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.37	7.40		mg/Kg		88.4	51.3 - 148.1

Lab Sample ID: 160-13027-A-5-K MS
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.990	0.989		mg/Kg	☼	100	80 - 120

Lab Sample ID: 160-13027-A-5-L MSD
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.886	0.905		mg/Kg	☼	102	80 - 120	9	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-204054/1-A
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	9.96	J	50	5.4	mg/Kg		08/05/15 12:10	08/05/15 17:30	1
Bicarbonate Alkalinity as CaCO3	9.96	J	50	5.4	mg/Kg		08/05/15 12:10	08/05/15 17:30	1
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		08/05/15 12:10	08/05/15 17:30	1

Lab Sample ID: HLCS 160-204054/3-A
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	4000	3700		mg/Kg		92	90 - 110
Bicarbonate Alkalinity as CaCO3	4000	3700		mg/Kg		92	90 - 110

Lab Sample ID: LCS 160-204054/2-A
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	2000	1860		mg/Kg		93	90 - 110
Bicarbonate Alkalinity as CaCO3	2000	1860		mg/Kg		93	90 - 110

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: 160-13103-A-2-G MS
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	1700	B	1190	2720		mg/Kg	☼	86	75 - 125
Bicarbonate Alkalinity as CaCO3	1500	B	1190	2720		mg/Kg	☼	106	75 - 125

Lab Sample ID: 160-13103-A-2-F DU
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	1700	B	1720		mg/Kg	☼	2	30
Bicarbonate Alkalinity as CaCO3	1500	B	1480		mg/Kg	☼	2	30
Carbonate Alkalinity as CaCO3	240		239		mg/Kg	☼	0.4	30

Method: 9045D - pH

Lab Sample ID: 160-13102-1 DU
Matrix: Solid
Analysis Batch: 203996

Client Sample ID: FEEBRIS1D-7.084-085
Prep Type: Total/NA
Prep Batch: 203887

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.26		8.243		SU		0.2	5

Lab Sample ID: LCS 160-203996/5
Matrix: Solid
Analysis Batch: 203996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.000		SU		100	99.0 - 101.0

HPLC/IC

Prep Batch: 204123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	DILeach_Prep	
160-13103-A-2-I DU	Duplicate	Total/NA	Solid	DILeach_Prep	
160-13103-A-2-J MS	Matrix Spike	Total/NA	Solid	DILeach_Prep	
LCS 160-204123/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-204123/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 204292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	9056A	204123
160-13103-A-2-I DU	Duplicate	Total/NA	Solid	9056A	204123
160-13103-A-2-J MS	Matrix Spike	Total/NA	Solid	9056A	204123
LCS 160-204123/2-A	Lab Control Sample	Total/NA	Solid	9056A	204123
MB 160-204123/1-A	Method Blank	Total/NA	Solid	9056A	204123

Metals

Prep Batch: 204016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-I MS	Matrix Spike	Total/NA	Solid	3050B	
160-13027-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
160-13027-A-1-K MS	Matrix Spike	Total/NA	Solid	3050B	
160-13027-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	3050B	
LCS 160-204016/4-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-204016/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 204554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-5-K MS	Matrix Spike	Total/NA	Solid	7471B	
160-13027-A-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	7471B	
LCSSRM 160-204554/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-204554/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 204621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-5-K MS	Matrix Spike	Total/NA	Solid	7471B	204554
160-13027-A-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	204554
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	7471B	204554
LCSSRM 160-204554/2-A	Lab Control Sample	Total/NA	Solid	7471B	204554
MB 160-204554/1-A	Method Blank	Total/NA	Solid	7471B	204554

Analysis Batch: 205352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-I MS	Matrix Spike	Total/NA	Solid	6020A	204016
160-13027-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	204016
160-13027-A-1-K MS	Matrix Spike	Total/NA	Solid	6020A	204016
160-13027-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	204016
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	6020A	204016

Metals (Continued)

Analysis Batch: 205352 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-204016/4-A	Lab Control Sample	Total/NA	Solid	6020A	204016
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	6020A	204016
MB 160-204016/1-A	Method Blank	Total/NA	Solid	6020A	204016

Analysis Batch: 205628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-I MS	Matrix Spike	Total/NA	Solid	6020A	204016
160-13027-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	204016
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	6020A	204016
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	6020A	204016
MB 160-204016/1-A	Method Blank	Total/NA	Solid	6020A	204016

Prep Batch: 206016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-R MS - RE	Matrix Spike	Total/NA	Solid	3050B	
160-13027-A-1-S MSD - RE	Matrix Spike Duplicate	Total/NA	Solid	3050B	
160-13102-1 - RE	FEEBRIS1D-7.084-085	Total/NA	Solid	3050B	
LCS 160-206016/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-206016/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 206253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-R MS - RE	Matrix Spike	Total/NA	Solid	6020A	206016
160-13027-A-1-S MSD - RE	Matrix Spike Duplicate	Total/NA	Solid	6020A	206016
160-13102-1 - RE	FEEBRIS1D-7.084-085	Total/NA	Solid	6020A	206016
LCS 160-206016/2-A	Lab Control Sample	Total/NA	Solid	6020A	206016
MB 160-206016/1-A	Method Blank	Total/NA	Solid	6020A	206016

General Chemistry

Analysis Batch: 203837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	Moisture	
160-13102-1 DU	FEEBRIS1D-7.084-085	Total/NA	Solid	Moisture	

Prep Batch: 203887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	DILeach_Prep	
160-13102-1 DU	FEEBRIS1D-7.084-085	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 203996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	9045D	203887
160-13102-1 DU	FEEBRIS1D-7.084-085	Total/NA	Solid	9045D	203887
LCS 160-203996/5	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 204054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	DILeach_Prep	
160-13103-A-2-F DU	Duplicate	Total/NA	Solid	DILeach_Prep	

General Chemistry (Continued)

Prep Batch: 204054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-A-2-G MS	Matrix Spike	Total/NA	Solid	DILeach_Prep	
HLCS 160-204054/3-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
LCS 160-204054/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-204054/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 204082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-1	FEEBRIS1D-7.084-085	Total/NA	Solid	310.1	204054
160-13103-A-2-F DU	Duplicate	Total/NA	Solid	310.1	204054
160-13103-A-2-G MS	Matrix Spike	Total/NA	Solid	310.1	204054
HLCS 160-204054/3-A	Lab Control Sample	Total/NA	Solid	310.1	204054
LCS 160-204054/2-A	Lab Control Sample	Total/NA	Solid	310.1	204054
MB 160-204054/1-A	Method Blank	Total/NA	Solid	310.1	204054

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
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TestAmerica Job ID: 160-13103-1
Client Project/Site: West Lake Landfill

For:
Engineering Management Support, Inc.
7220 W. Jefferson AVE
Suite 406
Lakewood, Colorado 80235

Attn: Mr. Paul Rosasco

Authorized for release by:
8/20/2015 11:28:23 AM

Erika Gish, Project Manager II
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-13103-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-13103-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The samples were received on 7/30/2015 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

TOTAL METALS (ICP)
Samples FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 08/04/2015 and analyzed on 08/08/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

METALS (ICPMS)
Samples FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and

Job ID: 160-13103-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

FEEBRIS1D-20.089.090 (160-13103-7) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 08/05/2015 and 08/17/2015 and analyzed on 08/12/2015, 08/13/2015, 08/14/2015 and 08/18/2015.

Prep 206016
Samples were re-extracted due to Nb failing outside the reporting limits in the LCS. FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7)

Prep 205400
Samples were re-extracted due to Nb failing low in the LCS. FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7)

Analytical Batch 205352
The following samples were diluted to bring the concentration of target analytes within the calibration range, as well as due to matrix interference, which caused internal standard and QC failures when the samples were run at a lesser dilution: FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6), FEEBRIS1D-20.089.090 (160-13103-7), (160-13027-A-1-H), (160-13027-A-1-I MS), (160-13027-A-1-K MS), (160-13027-A-1-J MSD), (160-13027-A-1-L MSD) and (160-13027-A-1-H SD). Elevated reporting limits (RLs) are provided.

The method blank for preparation batch 160-204016 and analytical batch 160-205352 contained aluminum above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. Antimony, Calcium, and Sodium were detected in method blank MB 160-204016/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Due to the high concentration of aluminum, calcium, iron, and magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205352 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike and/or matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-204016 and analytical batch 160-205352 were outside control limits for potassium, barium, and manganese. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike / matrix spike duplicate (MS/MSD) recovery and precision for lead and zinc was outside control limits, indicating a matrix interference. The sample was a non-homogeneous mixture of soil. The LCS was within acceptable limits. (160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205352 exceeded control limits for the following analyte(s): tantalum. Note that this analyte is a known poor performer when analyzed using this method. (160-13027-A-1-K MS) and (160-13027-A-1-L MSD)

Due to changes in LRC concentrations, the linear range for tantalum has been lowered (200ppb). The LCS was above the LRC. The LCS was within acceptable QC limits. (LCS 160-204016/4-A)

Analytical Batch 205628
The following samples were diluted due to the nature of the sample matrix. Samples were high in salts which cause internal standard and instrument QC failure. Additionally the digestates were yellow in color indicating a potential matrix interference: FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6), FEEBRIS1D-20.089.090 (160-13103-7), (160-13027-A-1-H), (160-13027-A-1-I MS), (160-13027-A-1-J MSD) and (160-13027-A-1-H SD). Elevated reporting limits (RLs) are provided.

Selenium was detected in method blank MB 160-204016/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged.

Job ID: 160-13103-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Due to the high concentration of Copper the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-204016 and analytical batch 160-205628 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.(160-13027-A-1-I MS) and (160-13027-A-1-J MSD)

Analytical Batch 205737
The following samples were diluted to bring the concentration of target analytes within the calibration range, as well as due to a matrix interference, which caused QC failures when the samples were run at a lesser dilution: FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7). Elevated reporting limits (RLs) are provided.

Analytical Batch 206253
The following samples were diluted to bring the concentration of target analytes within the calibration range: FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6), FEEBRIS1D-20.089.090 (160-13103-7), (160-13027-A-1-Q), (160-13027-A-1-R MS), (160-13027-A-1-S MSD) and (160-13027-A-1-Q SD). Elevated reporting limits (RLs) are provided.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-206016 and analytical batch 160-206253 were outside control limits for niobium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-13027-A-1-R MS) and (160-13027-A-1-S MSD)

This sample was re-extracted for niobium, due to low LCS recovery. The LCS in the re-extract was spiked at a higher amount than the original digestion. This resulted in a possible carryover of this analyte into the first sample. The result in the first sample was still below the reporting limit, but above the MDL. (160-13027-A-1-Q)

Due to changes in LRC concentrations, the linear range for niobium has been lowered (100ppb). The LCS was above the LRC. The LCS was within acceptable QC limits. (LCS 160-206016/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 08/07/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ALKALINITY
Samples FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7) were analyzed for Alkalinity in accordance with EPA Method 310.1. The samples were prepared and analyzed on 08/05/2015.

Alkalinity and Bicarbonate Alkalinity as CaCO3 was detected in method blank MB 160-204054/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Samples FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7) were analyzed for pH in accordance with EPA SW-846 Method 9045D. The samples were prepared and analyzed on 08/04/2015.

Job ID: 160-13103-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

ANIONS, ION CHROMATOGRAPHY

Samples FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7) were analyzed for Anions, Ion Chromatography in accordance with EPA SW-846 Method 9056A. The samples were prepared on 08/06/2015 and analyzed on 08/07/2015.

The following sample was diluted to bring the concentrations of target analytes within the calibration range in Anion batch 204292: FEEBRIS1D-8.075-076 (160-13103-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples FEEBRIS1D-8.075-076 (160-13103-1), FEEBRIS1D-8.090-091 (160-13103-2), FEEBRIS1D-4.061-062 (160-13103-3), FEEBRIS1D-4.064-065 (160-13103-4), FEEBRIS1D-20.080-081 (160-13103-5), DUPLICATE #5 (160-13103-6) and FEEBRIS1D-20.089.090 (160-13103-7) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 08/04/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Project Manager: Paul Rosasco/EMSI	Site Contact: Bill Abernathy/FEI	Date: 7/30/15	COC No: 160-2800-1326.7
Engineering Management Support, Inc.	Tel/Fax: paulrosasco@emsidenver.com	Lab Contact: Erika K. Gish/TA	Carrier: hand delivered	1 of 1 COCs
7220 W. Jefferson Avenue, Suite 406	Analysis Turnaround Time			Sampler: Bill Abernathy 314-502-1299
Lakewood, CO 80235	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(303) 940-3426 Phone	TAT if different from Below _____			Walk-in Client:
(303) 940-3422 FAX	☐ 2 weeks ☑ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: West Lake Landfill				Job / SDG No.:
Project Number: 16002280				
P O # Not Required				Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	9056A ORGFM 28D - Sulfate/Chloride	9045D - pH	310.1 - Alkalinity	6020A, 7471B	Moisture - Moisture	6010B - Scandium	FLUORIDE
			Preservation code					N	N	N	N	N	N	
FEEBRIS1D-8.075-076	7/29/15	0906	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-8.090-091	7/29/15	0941	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-4.061-062	7/30/15	0735	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-4.064-065	7/30/15	0740	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-20.080-081	7/30/15	0957	G	S	3			✓	✓	✓	✓	✓	✓	✓
DUPLICATE #5	7/30/15	0957	G	S	3			✓	✓	✓	✓	✓	✓	✓
FEEBRIS1D-20.089-090	7/30/15	1024	G	S	3			✓	✓	✓	✓	✓	✓	✓

160-13103 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Level IV deliverable requested

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: FEI	Date/Time: 7/30/15 1515	Received by:	Company: TA STL	Date/Time: 7-30-15 1515
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/20/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gish, Erika K	Carrier Tracking No(s):	COC No: 160-60994.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: erika.gish@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		**Analysis Requested**		Job #: 160-13103-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 8/11/2015			**Preservation Codes:**
City: Phoenix	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) **Other:**
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			
Email:	WO #:			
Project Name: West Lake Landfill	Project #: 16002280			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B (MOD) Scandium	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FEEBRIS1D-8.075-076 (160-13103-1)	7/29/15	09:06 Central		Solid			X	1	
FEEBRIS1D-8.090-091 (160-13103-2)	7/29/15	09:41 Central		Solid			X	1	
FEEBRIS1D-4.061-062 (160-13103-3)	7/30/15	07:35 Central		Solid			X	1	
FEEBRIS1D-4.064-065 (160-13103-4)	7/30/15	07:40 Central		Solid			X	1	
FEEBRIS1D-20.080-081 (160-13103-5)	7/30/15	09:57 Central		Solid			X	1	
DUPLICATE #5 (160-13103-6)	7/30/15	09:57 Central		Solid			X	1	
FEEBRIS1D-20.089.090 (160-13103-7)	7/30/15	10:24 Central		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/4/15 1132	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-13103-1

Login Number: 13103
List Number: 1
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-13103-1

Login Number: 13103
List Number: 2
Creator: Shoemaker, Cory M

List Source: TestAmerica Phoenix
List Creation: 08/04/15 10:00 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13103-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	TAL SL
6010B	Metals (ICP)	SW846	TAL PHX
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9045D	pH	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13103-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-13103-1	FEEBRIS1D-8.075-076	Solid	07/29/15 09:06	07/30/15 15:15
160-13103-2	FEEBRIS1D-8.090-091	Solid	07/29/15 09:41	07/30/15 15:15
160-13103-3	FEEBRIS1D-4.061-062	Solid	07/30/15 07:35	07/30/15 15:15
160-13103-4	FEEBRIS1D-4.064-065	Solid	07/30/15 07:40	07/30/15 15:15
160-13103-5	FEEBRIS1D-20.080-081	Solid	07/30/15 09:57	07/30/15 15:15
160-13103-6	DUPLICATE #5	Solid	07/30/15 09:57	07/30/15 15:15
160-13103-7	FEEBRIS1D-20.089.090	Solid	07/30/15 10:24	07/30/15 15:15

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13103-1

Client Sample ID: FEEBRIS1D-8.075-076 — Lab Sample ID: 160-13103-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	6.4		1.3	0.13	mg/Kg	1	☼	9056A	Total/NA
Sulfate - DL	250		130	13	mg/Kg	20	☼	9056A	Total/NA
Scandium	0.73	J	6.2	0.58	mg/Kg	1	☼	6010B	Total/NA
Aluminum	4700	B	150	49	mg/Kg	50	☼	6020A	Total/NA
Antimony	3.3	J B	15	1.9	mg/Kg	50	☼	6020A	Total/NA
Barium	2200		58	2.7	mg/Kg	50	☼	6020A	Total/NA
Cadmium	1.1	J	1.5	0.47	mg/Kg	50	☼	6020A	Total/NA
Calcium	83000	B	1500	170	mg/Kg	50	☼	6020A	Total/NA
Chromium	26	J	29	13	mg/Kg	50	☼	6020A	Total/NA
Cobalt	9.5		5.8	1.3	mg/Kg	50	☼	6020A	Total/NA
Copper	1200		29	2.9	mg/Kg	50	☼	6020A	Total/NA
Iron	12000		150	96	mg/Kg	50	☼	6020A	Total/NA
Lead	340		8.8	2.9	mg/Kg	50	☼	6020A	Total/NA
Magnesium	21000		1500	110	mg/Kg	50	☼	6020A	Total/NA
Manganese	350		15	2.2	mg/Kg	50	☼	6020A	Total/NA
Nickel	23		15	3.1	mg/Kg	50	☼	6020A	Total/NA
Potassium	1500		290	88	mg/Kg	50	☼	6020A	Total/NA
Selenium	5.4	J B	15	4.6	mg/Kg	50	☼	6020A	Total/NA
Sodium	1400	B	580	190	mg/Kg	50	☼	6020A	Total/NA
Zinc	270		150	39	mg/Kg	50	☼	6020A	Total/NA
Mercury	0.67		0.040	0.013	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	4300	B	63	6.9	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	3400	B	63	6.9	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	860		63	6.9	mg/Kg	1	☼	310.1	Total/NA
pH	8.49		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-8.090-091 — Lab Sample ID: 160-13103-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.67	J	1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Sulfate	180		6.0	0.60	mg/Kg	1	☼	9056A	Total/NA
Scandium	0.73	J	5.9	0.55	mg/Kg	1	☼	6010B	Total/NA
Aluminum	2000	B	130	43	mg/Kg	50	☼	6020A	Total/NA
Antimony	1.9	J B	13	1.7	mg/Kg	50	☼	6020A	Total/NA
Barium	78		52	2.4	mg/Kg	50	☼	6020A	Total/NA
Cadmium	0.51	J	1.3	0.42	mg/Kg	50	☼	6020A	Total/NA
Calcium	7100	B	1300	150	mg/Kg	50	☼	6020A	Total/NA
Cobalt	3.2	J	5.2	1.1	mg/Kg	50	☼	6020A	Total/NA
Copper	36		26	2.6	mg/Kg	50	☼	6020A	Total/NA
Iron	16000		130	86	mg/Kg	50	☼	6020A	Total/NA
Lead	12		7.8	2.6	mg/Kg	50	☼	6020A	Total/NA
Magnesium	2500		1300	99	mg/Kg	50	☼	6020A	Total/NA
Manganese	120		13	2.0	mg/Kg	50	☼	6020A	Total/NA
Nickel	11	J	13	2.8	mg/Kg	50	☼	6020A	Total/NA
Potassium	570		260	78	mg/Kg	50	☼	6020A	Total/NA
Sodium	320	J B	520	170	mg/Kg	50	☼	6020A	Total/NA
Zinc	69	J	130	35	mg/Kg	50	☼	6020A	Total/NA
Mercury	0.022	J	0.036	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1700	B	60	6.5	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1500	B	60	6.5	mg/Kg	1	☼	310.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13103-1

Client Sample ID: FEEBRIS1D-8.090-091 (Continued) — Lab Sample ID: 160-13103-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbonate Alkalinity as CaCO3	240		60	6.5	mg/Kg	1	☼	310.1	Total/NA
pH	8.50		0.0999	0.0999	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-4.061-062 — Lab Sample ID: 160-13103-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	7.0		1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Sulfate	24		6.1	0.61	mg/Kg	1	☼	9056A	Total/NA
Scandium	3.3	J	6.0	0.56	mg/Kg	1	☼	6010B	Total/NA
Aluminum	8600	B	56	19	mg/Kg	20	☼	6020A	Total/NA
Antimony	13	B	5.6	0.73	mg/Kg	20	☼	6020A	Total/NA
Arsenic	8.1	J	11	2.9	mg/Kg	20	☼	6020A	Total/NA
Barium	140		22	1.1	mg/Kg	20	☼	6020A	Total/NA
Beryllium	0.42	J	1.1	0.29	mg/Kg	20	☼	6020A	Total/NA
Cadmium	0.28	J	0.56	0.18	mg/Kg	20	☼	6020A	Total/NA
Calcium	5200	B	560	65	mg/Kg	20	☼	6020A	Total/NA
Chromium	14		11	5.0	mg/Kg	20	☼	6020A	Total/NA
Cobalt	7.5		2.2	0.48	mg/Kg	20	☼	6020A	Total/NA
Copper	430		11	1.1	mg/Kg	20	☼	6020A	Total/NA
Iron	16000		56	37	mg/Kg	20	☼	6020A	Total/NA
Lead	78		3.4	1.1	mg/Kg	20	☼	6020A	Total/NA
Magnesium	3100		560	42	mg/Kg	20	☼	6020A	Total/NA
Manganese	450		5.6	0.86	mg/Kg	20	☼	6020A	Total/NA
Nickel	19		5.6	1.2	mg/Kg	20	☼	6020A	Total/NA
Potassium	1100		110	34	mg/Kg	20	☼	6020A	Total/NA
Selenium	3.2	J B	5.6	1.8	mg/Kg	20	☼	6020A	Total/NA
Sodium	750	B	220	75	mg/Kg	20	☼	6020A	Total/NA
Vanadium	23		11	8.2	mg/Kg	20	☼	6020A	Total/NA
Zinc	80		56	15	mg/Kg	20	☼	6020A	Total/NA
Mercury	0.059		0.036	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	1300	B	61	6.6	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1200	B	61	6.6	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	170		61	6.6	mg/Kg	1	☼	310.1	Total/NA
pH	8.23		0.100	0.100	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-4.064-065 — Lab Sample ID: 160-13103-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	4.3		1.2	0.12	mg/Kg	1	☼	9056A	Total/NA
Sulfate	88		5.8	0.58	mg/Kg	1	☼	9056A	Total/NA
Scandium	1.3	J	5.6	0.52	mg/Kg	1	☼	6010B	Total/NA
Aluminum	3800	B	250	83	mg/Kg	100	☼	6020A	Total/NA
Antimony	3.4	J B	25	3.2	mg/Kg	100	☼	6020A	Total/NA
Barium	81	J	99	4.7	mg/Kg	100	☼	6020A	Total/NA
Calcium	12000	B	2500	290	mg/Kg	100	☼	6020A	Total/NA
Cobalt	4.3	J	9.9	2.1	mg/Kg	100	☼	6020A	Total/NA
Copper	12	J	50	5.0	mg/Kg	100	☼	6020A	Total/NA
Iron	7200		250	160	mg/Kg	100	☼	6020A	Total/NA
Lead	7.9	J	15	5.0	mg/Kg	100	☼	6020A	Total/NA
Magnesium	3600		2500	190	mg/Kg	100	☼	6020A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Client Sample ID: FEEBRIS1D-4.064-065 (Continued) — Lab Sample ID: 160-13103-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	160		25	3.8	mg/Kg	100	☼	6020A	Total/NA
Nickel	12	J	25	5.3	mg/Kg	100	☼	6020A	Total/NA
Potassium	1000		500	150	mg/Kg	100	☼	6020A	Total/NA
Sodium	970	J B	990	330	mg/Kg	100	☼	6020A	Total/NA
Mercury	0.015	J	0.036	0.012	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	2300	B	58	6.3	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	1700	B	58	6.3	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	600		58	6.3	mg/Kg	1	☼	310.1	Total/NA
pH	8.59		0.100	0.100	SU	1		9045D	Total/NA

Client Sample ID: FEEBRIS1D-20.080-081 — Lab Sample ID: 160-13103-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.7		1.1	0.11	mg/Kg	1	☼	9056A	Total/NA
Sulfate	180		5.4	0.54	mg/Kg	1	☼	9056A	Total/NA
Aluminum	1300	B	250	84	mg/Kg	100	☼	6020A	Total/NA
Antimony	3.3	J B	25	3.3	mg/Kg	100	☼	6020A	Total/NA
Barium	47	J	100	4.7	mg/Kg	100	☼	6020A	Total/NA
Calcium	340000	B	2500	290	mg/Kg	100	☼	6020A	Total/NA
Iron	4600		250	170	mg/Kg	100	☼	6020A	Total/NA
Magnesium	80000		2500	190	mg/Kg	100	☼	6020A	Total/NA
Manganese	160		25	3.9	mg/Kg	100	☼	6020A	Total/NA
Nickel	9.6	J	25	5.4	mg/Kg	100	☼	6020A	Total/NA
Potassium	540		500	150	mg/Kg	100	☼	6020A	Total/NA
Sodium	450	J B	1000	330	mg/Kg	100	☼	6020A	Total/NA
Alkalinity	320	B	53	5.8	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	150	B	53	5.8	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	170		53	5.8	mg/Kg	1	☼	310.1	Total/NA
pH	8.27		0.0998	0.0998	SU	1		9045D	Total/NA

Client Sample ID: DUPLICATE #5 — Lab Sample ID: 160-13103-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.8		1.1	0.11	mg/Kg	1	☼	9056A	Total/NA
Sulfate	180		5.5	0.55	mg/Kg	1	☼	9056A	Total/NA
Aluminum	1400	B	250	84	mg/Kg	100	☼	6020A	Total/NA
Barium	27	J	100	4.7	mg/Kg	100	☼	6020A	Total/NA
Cadmium	1.2	J	2.5	0.80	mg/Kg	100	☼	6020A	Total/NA
Calcium	420000	B	2500	290	mg/Kg	100	☼	6020A	Total/NA
Iron	5000		250	170	mg/Kg	100	☼	6020A	Total/NA
Magnesium	51000		2500	190	mg/Kg	100	☼	6020A	Total/NA
Manganese	220		25	3.9	mg/Kg	100	☼	6020A	Total/NA
Nickel	10	J	25	5.4	mg/Kg	100	☼	6020A	Total/NA
Potassium	640		500	150	mg/Kg	100	☼	6020A	Total/NA
Sodium	460	J B	1000	340	mg/Kg	100	☼	6020A	Total/NA
Zinc	85	J	250	67	mg/Kg	100	☼	6020A	Total/NA
Alkalinity	350	B	55	5.9	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	200	B	55	5.9	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	150		55	5.9	mg/Kg	1	☼	310.1	Total/NA
pH	8.26		0.0999	0.0999	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-13103-1

Client Sample ID: FEEBRIS1D-20.089.090

Lab Sample ID: 160-13103-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	6.0		1.3	0.13	mg/Kg	1	☼	9056A	Total/NA
Sulfate	28		6.3	0.63	mg/Kg	1	☼	9056A	Total/NA
Scandium	2.6	J	6.3	0.59	mg/Kg	1	☼	6010B	Total/NA
Aluminum	8800	B	160	52	mg/Kg	50	☼	6020A	Total/NA
Antimony	2.5	J B	16	2.0	mg/Kg	50	☼	6020A	Total/NA
Barium	170		62	2.9	mg/Kg	50	☼	6020A	Total/NA
Cadmium	1.0	J	1.6	0.50	mg/Kg	50	☼	6020A	Total/NA
Calcium	7400	B	1600	180	mg/Kg	50	☼	6020A	Total/NA
Chromium	17	J	31	14	mg/Kg	50	☼	6020A	Total/NA
Cobalt	7.2		6.2	1.3	mg/Kg	50	☼	6020A	Total/NA
Copper	52		31	3.1	mg/Kg	50	☼	6020A	Total/NA
Iron	14000		160	100	mg/Kg	50	☼	6020A	Total/NA
Lead	46		9.3	3.1	mg/Kg	50	☼	6020A	Total/NA
Magnesium	3600		1600	120	mg/Kg	50	☼	6020A	Total/NA
Manganese	280		16	2.4	mg/Kg	50	☼	6020A	Total/NA
Nickel	37		16	3.3	mg/Kg	50	☼	6020A	Total/NA
Potassium	2000		310	93	mg/Kg	50	☼	6020A	Total/NA
Selenium	5.2	J B	16	4.9	mg/Kg	50	☼	6020A	Total/NA
Sodium	450	J B	620	210	mg/Kg	50	☼	6020A	Total/NA
Zinc	82	J	160	41	mg/Kg	50	☼	6020A	Total/NA
Mercury	0.071		0.042	0.014	mg/Kg	1	☼	7471B	Total/NA
Alkalinity	930	B	63	6.8	mg/Kg	1	☼	310.1	Total/NA
Bicarbonate Alkalinity as CaCO3	780	B	63	6.8	mg/Kg	1	☼	310.1	Total/NA
Carbonate Alkalinity as CaCO3	150		63	6.8	mg/Kg	1	☼	310.1	Total/NA
pH	8.04		0.100	0.100	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FEEBRIS1D-8.075-076

Date Collected: 07/29/15 09:06
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13103-1

Matrix: Solid
Percent Solids: 78.5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.4		1.3	0.13	mg/Kg	☼	08/06/15 14:00	08/07/15 07:22	1

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	250		130	13	mg/Kg	☼	08/06/15 14:00	08/07/15 07:37	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.73	J	6.2	0.58	mg/Kg	☼	08/04/15 15:07	08/08/15 00:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4700	B	150	49	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Antimony	3.3	J B	15	1.9	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Arsenic	ND		29	7.6	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Barium	2200		58	2.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Beryllium	ND		2.9	0.76	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Cadmium	1.1	J	1.5	0.47	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Calcium	83000	B	1500	170	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Chromium	26	J	29	13	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Cobalt	9.5		5.8	1.3	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Copper	1200		29	2.9	mg/Kg	☼	08/05/15 08:33	08/13/15 19:44	50
Iron	12000		150	96	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Lead	340		8.8	2.9	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Magnesium	21000		1500	110	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Manganese	350		15	2.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Nickel	23		15	3.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Potassium	1500		290	88	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Selenium	5.4	J B	15	4.6	mg/Kg	☼	08/05/15 08:33	08/13/15 19:44	50
Silver	ND		5.8	0.70	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Sodium	1400	B	580	190	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Thallium	ND		15	4.4	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Vanadium	ND		29	21	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Zinc	270		150	39	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50
Tantalum	ND		29	4.6	mg/Kg	☼	08/05/15 08:33	08/12/15 19:18	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		77	12	mg/Kg	☼	08/17/15 09:40	08/18/15 11:16	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.67		0.040	0.013	mg/Kg	☼	08/07/15 10:37	08/07/15 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	4300	B	63	6.9	mg/Kg	☼	08/05/15 12:19	08/05/15 18:01	1
Bicarbonate Alkalinity as CaCO3	3400	B	63	6.9	mg/Kg	☼	08/05/15 12:19	08/05/15 18:01	1
Carbonate Alkalinity as CaCO3	860		63	6.9	mg/Kg	☼	08/05/15 12:19	08/05/15 18:01	1
pH	8.49		0.0999	0.0999	SU		08/04/15 11:40	08/04/15 13:38	1

Client Sample ID: FEEBRIS1D-8.090-091
Date Collected: 07/29/15 09:41
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13103-2
Matrix: Solid
Percent Solids: 83.5

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.67	J	1.2	0.12	mg/Kg	☼	08/06/15 14:00	08/07/15 07:52	1
Sulfate	180		6.0	0.60	mg/Kg	☼	08/06/15 14:00	08/07/15 07:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	0.73	J	5.9	0.55	mg/Kg	☼	08/04/15 15:07	08/08/15 00:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2000	B	130	43	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Antimony	1.9	J B	13	1.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Arsenic	ND		26	6.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Barium	78		52	2.4	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Beryllium	ND		2.6	0.67	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Cadmium	0.51	J	1.3	0.42	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Calcium	7100	B	1300	150	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Chromium	ND		26	12	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Cobalt	3.2	J	5.2	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Copper	36		26	2.6	mg/Kg	☼	08/05/15 08:33	08/13/15 19:51	50
Iron	16000		130	86	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Lead	12		7.8	2.6	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Magnesium	2500		1300	99	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Manganese	120		13	2.0	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Nickel	11	J	13	2.8	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Potassium	570		260	78	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Selenium	ND		13	4.1	mg/Kg	☼	08/05/15 08:33	08/13/15 19:51	50
Silver	ND		5.2	0.62	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Sodium	320	J B	520	170	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Thallium	ND		13	3.9	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Vanadium	ND		26	19	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Zinc	69	J	130	35	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50
Tantalum	ND		26	4.0	mg/Kg	☼	08/05/15 08:33	08/12/15 19:22	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		72	11	mg/Kg	☼	08/17/15 09:40	08/18/15 11:20	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.036	0.012	mg/Kg	☼	08/07/15 10:37	08/07/15 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1700	B	60	6.5	mg/Kg	☼	08/05/15 12:22	08/05/15 18:11	1
Bicarbonate Alkalinity as CaCO3	1500	B	60	6.5	mg/Kg	☼	08/05/15 12:22	08/05/15 18:11	1
Carbonate Alkalinity as CaCO3	240		60	6.5	mg/Kg	☼	08/05/15 12:22	08/05/15 18:11	1
pH	8.50		0.0999	0.0999	SU		08/04/15 11:40	08/04/15 13:42	1

Client Sample ID: FEEBRIS1D-4.061-062
Date Collected: 07/30/15 07:35
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13103-3
Matrix: Solid
Percent Solids: 81.7

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	7.0		1.2	0.12	mg/Kg	☼	08/06/15 14:00	08/07/15 09:22	1
Sulfate	24		6.1	0.61	mg/Kg	☼	08/06/15 14:00	08/07/15 09:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	3.3	J	6.0	0.56	mg/Kg	☼	08/04/15 15:07	08/08/15 00:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8600	B	56	19	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Antimony	13	B	5.6	0.73	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Arsenic	8.1	J	11	2.9	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Barium	140		22	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Beryllium	0.42	J	1.1	0.29	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Cadmium	0.28	J	0.56	0.18	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Calcium	5200	B	560	65	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Chromium	14		11	5.0	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Cobalt	7.5		2.2	0.48	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Copper	430		11	1.1	mg/Kg	☼	08/05/15 08:33	08/13/15 19:58	20
Iron	16000		56	37	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Lead	78		3.4	1.1	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Magnesium	3100		560	42	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Manganese	450		5.6	0.86	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Nickel	19		5.6	1.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Potassium	1100		110	34	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Selenium	3.2	J B	5.6	1.8	mg/Kg	☼	08/05/15 08:33	08/13/15 19:58	20
Silver	ND		2.2	0.27	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Sodium	750	B	220	75	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Thallium	ND		5.6	1.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Vanadium	23		11	8.2	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Zinc	80		56	15	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20
Tantalum	ND		11	1.7	mg/Kg	☼	08/05/15 08:33	08/12/15 19:27	20

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		27	4.1	mg/Kg	☼	08/17/15 09:40	08/18/15 11:25	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.036	0.012	mg/Kg	☼	08/07/15 10:37	08/07/15 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1300	B	61	6.6	mg/Kg	☼	08/05/15 12:32	08/05/15 18:42	1
Bicarbonate Alkalinity as CaCO3	1200	B	61	6.6	mg/Kg	☼	08/05/15 12:32	08/05/15 18:42	1
Carbonate Alkalinity as CaCO3	170		61	6.6	mg/Kg	☼	08/05/15 12:32	08/05/15 18:42	1
pH	8.23		0.100	0.100	SU		08/04/15 11:40	08/04/15 13:50	1

Client Sample ID: FEEBRIS1D-4.064-065
Date Collected: 07/30/15 07:40
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13103-4
Matrix: Solid
Percent Solids: 86.0

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	4.3		1.2	0.12	mg/Kg	☼	08/06/15 14:00	08/07/15 10:21	1
Sulfate	88		5.8	0.58	mg/Kg	☼	08/06/15 14:00	08/07/15 10:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	1.3	J	5.6	0.52	mg/Kg	☼	08/04/15 15:07	08/08/15 00:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3800	B	250	83	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Antimony	3.4	J B	25	3.2	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Arsenic	ND		50	13	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Barium	81	J	99	4.7	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Beryllium	ND		5.0	1.3	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Cadmium	ND		2.5	0.79	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Calcium	12000	B	2500	290	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Chromium	ND		50	22	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Cobalt	4.3	J	9.9	2.1	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Copper	12	J	50	5.0	mg/Kg	☼	08/05/15 08:34	08/13/15 20:04	100
Iron	7200		250	160	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Lead	7.9	J	15	5.0	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Magnesium	3600		2500	190	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Manganese	160		25	3.8	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Nickel	12	J	25	5.3	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Potassium	1000		500	150	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Selenium	ND		25	7.8	mg/Kg	☼	08/05/15 08:34	08/13/15 20:04	100
Silver	ND		9.9	1.2	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Sodium	970	J B	990	330	mg/Kg	☼	08/05/15 08:34	08/14/15 21:47	100
Thallium	ND		25	7.5	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Vanadium	ND		50	36	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Zinc	ND		250	66	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100
Tantalum	ND		50	7.7	mg/Kg	☼	08/05/15 08:34	08/12/15 19:44	100

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		130	20	mg/Kg	☼	08/17/15 09:40	08/18/15 11:29	100

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.036	0.012	mg/Kg	☼	08/07/15 10:37	08/07/15 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2300	B	58	6.3	mg/Kg	☼	08/05/15 12:35	08/05/15 18:53	1
Bicarbonate Alkalinity as CaCO3	1700	B	58	6.3	mg/Kg	☼	08/05/15 12:35	08/05/15 18:53	1
Carbonate Alkalinity as CaCO3	600		58	6.3	mg/Kg	☼	08/05/15 12:35	08/05/15 18:53	1
pH	8.59		0.100	0.100	SU		08/04/15 11:40	08/04/15 13:54	1

Client Sample ID: FEEBRIS1D-20.080-081

Date Collected: 07/30/15 09:57
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13103-5

Matrix: Solid
Percent Solids: 93.4

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.7		1.1	0.11	mg/Kg	☼	08/06/15 14:00	08/07/15 10:51	1
Sulfate	180		5.4	0.54	mg/Kg	☼	08/06/15 14:00	08/07/15 10:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.3	0.49	mg/Kg	☼	08/04/15 15:07	08/08/15 00:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300	B	250	84	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Antimony	3.3	J B	25	3.3	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Arsenic	ND		50	13	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Barium	47	J	100	4.7	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Beryllium	ND		5.0	1.3	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Cadmium	ND		2.5	0.80	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Calcium	340000	B	2500	290	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Chromium	ND		50	23	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Cobalt	ND		10	2.2	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Copper	ND		50	5.1	mg/Kg	☼	08/05/15 08:35	08/13/15 20:11	100
Iron	4600		250	170	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Lead	ND		15	5.0	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Magnesium	80000		2500	190	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Manganese	160		25	3.9	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Nickel	9.6	J	25	5.4	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Potassium	540		500	150	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Selenium	ND		25	7.9	mg/Kg	☼	08/05/15 08:35	08/13/15 20:11	100
Silver	ND		10	1.2	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Sodium	450	J B	1000	330	mg/Kg	☼	08/05/15 08:35	08/14/15 21:52	100
Thallium	ND		25	7.6	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Vanadium	ND		50	37	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Zinc	ND		250	67	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100
Tantalum	ND		50	7.8	mg/Kg	☼	08/05/15 08:35	08/12/15 19:48	100

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		120	18	mg/Kg	☼	08/17/15 09:40	08/18/15 11:33	100

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.034	0.011	mg/Kg	☼	08/07/15 10:37	08/07/15 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	320	B	53	5.8	mg/Kg	☼	08/05/15 12:38	08/05/15 19:03	1
Bicarbonate Alkalinity as CaCO3	150	B	53	5.8	mg/Kg	☼	08/05/15 12:38	08/05/15 19:03	1
Carbonate Alkalinity as CaCO3	170		53	5.8	mg/Kg	☼	08/05/15 12:38	08/05/15 19:03	1
pH	8.27		0.0998	0.0998	SU		08/04/15 11:40	08/04/15 13:58	1

Client Sample ID: DUPLICATE #5

Date Collected: 07/30/15 09:57
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13103-6

Matrix: Solid
Percent Solids: 91.1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**2.8**		1.1	0.11	mg/Kg	☼	08/06/15 14:00	08/07/15 11:21	1
Sulfate	**180**		5.5	0.55	mg/Kg	☼	08/06/15 14:00	08/07/15 11:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.4	0.50	mg/Kg	☼	08/04/15 15:07	08/08/15 00:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1400**	**B**	250	84	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Antimony	ND		25	3.3	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Arsenic	ND		50	13	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Barium	**27**	**J**	100	4.7	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Beryllium	ND		5.0	1.3	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Cadmium	**1.2**	**J**	2.5	0.80	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Calcium	**420000**	**B**	2500	290	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Chromium	ND		50	23	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Cobalt	ND		10	2.2	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Copper	ND		50	5.1	mg/Kg	☼	08/05/15 08:36	08/13/15 20:18	100
Iron	**5000**		250	170	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Lead	ND		15	5.0	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Magnesium	**51000**		2500	190	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Manganese	**220**		25	3.9	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Nickel	**10**	**J**	25	5.4	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Potassium	**640**		500	150	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Selenium	ND		25	7.9	mg/Kg	☼	08/05/15 08:36	08/13/15 20:18	100
Silver	ND		10	1.2	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Sodium	**460**	**J B**	1000	340	mg/Kg	☼	08/05/15 08:36	08/14/15 21:56	100
Thallium	ND		25	7.6	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Vanadium	ND		50	37	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Zinc	**85**	**J**	250	67	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100
Tantalum	ND		50	7.8	mg/Kg	☼	08/05/15 08:36	08/12/15 19:53	100

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		120	18	mg/Kg	☼	08/17/15 09:40	08/18/15 11:38	100

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.035	0.012	mg/Kg	☼	08/07/15 10:37	08/07/15 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**	**B**	55	5.9	mg/Kg	☼	08/05/15 12:41	08/05/15 19:13	1
Bicarbonate Alkalinity as CaCO3	**200**	**B**	55	5.9	mg/Kg	☼	08/05/15 12:41	08/05/15 19:13	1
Carbonate Alkalinity as CaCO3	**150**		55	5.9	mg/Kg	☼	08/05/15 12:41	08/05/15 19:13	1
pH	**8.26**		0.0999	0.0999	SU		08/04/15 11:40	08/04/15 14:02	1

Client Sample ID: FEEBRIS1D-20.089.090
Date Collected: 07/30/15 10:24
Date Received: 07/30/15 15:15

Lab Sample ID: 160-13103-7
Matrix: Solid
Percent Solids: 79.3

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.0		1.3	0.13	mg/Kg	☼	08/06/15 14:00	08/07/15 11:51	1
Sulfate	28		6.3	0.63	mg/Kg	☼	08/06/15 14:00	08/07/15 11:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	2.6	J	6.3	0.59	mg/Kg	☼	08/04/15 15:07	08/08/15 00:53	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800	B	160	52	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Antimony	2.5	J B	16	2.0	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Arsenic	ND		31	8.1	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Barium	170		62	2.9	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Beryllium	ND		3.1	0.81	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Cadmium	1.0	J	1.6	0.50	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Calcium	7400	B	1600	180	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Chromium	17	J	31	14	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Cobalt	7.2		6.2	1.3	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Copper	52		31	3.1	mg/Kg	☼	08/05/15 08:36	08/13/15 20:45	50
Iron	14000		160	100	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Lead	46		9.3	3.1	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Magnesium	3600		1600	120	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Manganese	280		16	2.4	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Nickel	37		16	3.3	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Potassium	2000		310	93	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Selenium	5.2	J B	16	4.9	mg/Kg	☼	08/05/15 08:36	08/13/15 20:45	50
Silver	ND		6.2	0.75	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Sodium	450	J B	620	210	mg/Kg	☼	08/05/15 08:36	08/14/15 22:00	50
Thallium	ND		16	4.7	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Vanadium	ND		31	23	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Zinc	82	J	160	41	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50
Tantalum	ND		31	4.9	mg/Kg	☼	08/05/15 08:36	08/12/15 19:57	50

Method: 6020A - Metals (ICP/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		68	10	mg/Kg	☼	08/17/15 09:40	08/18/15 11:55	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.042	0.014	mg/Kg	☼	08/07/15 10:37	08/07/15 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	930	B	63	6.8	mg/Kg	☼	08/05/15 12:44	08/05/15 19:24	1
Bicarbonate Alkalinity as CaCO3	780	B	63	6.8	mg/Kg	☼	08/05/15 12:44	08/05/15 19:24	1
Carbonate Alkalinity as CaCO3	150		63	6.8	mg/Kg	☼	08/05/15 12:44	08/05/15 19:24	1
pH	8.04		0.100	0.100	SU		08/04/15 11:40	08/04/15 14:06	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 160-204123/1-A
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		1.0	0.10	mg/Kg		08/06/15 14:00	08/07/15 05:08	1
Sulfate	ND		5.0	0.50	mg/Kg		08/06/15 14:00	08/07/15 05:08	1

Lab Sample ID: LCS 160-204123/2-A
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	9.95	9.89		mg/Kg		99	80 - 120
Sulfate	79.6	75.7		mg/Kg		95	80 - 120

Lab Sample ID: 160-13103-2 MS
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: FEEBRIS1D-8.090-091
Prep Type: Total/NA
Prep Batch: 204123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.67	J	23.9	25.9		mg/Kg	☼	106	80 - 123
Sulfate	180		47.7	226		mg/Kg	☼	101	75 - 121

Lab Sample ID: 160-13103-2 DU
Matrix: Solid
Analysis Batch: 204292

Client Sample ID: FEEBRIS1D-8.090-091
Prep Type: Total/NA
Prep Batch: 204123

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.67	J	0.682	J	mg/Kg	☼	2	30
Sulfate	180		173		mg/Kg	☼	3	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-69635/1-A
Matrix: Solid
Analysis Batch: 69974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Scandium	ND		5.0	0.47	mg/Kg		08/04/15 15:07	08/08/15 00:02	1

Lab Sample ID: LCS 550-69635/2-A
Matrix: Solid
Analysis Batch: 69974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	49.1	52.0		mg/Kg		106	80 - 120

Lab Sample ID: LCSD 550-69635/3-A
Matrix: Solid
Analysis Batch: 69974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69635

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	49.0	52.1		mg/Kg		106	80 - 120	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 160-13103-5 MS
Matrix: Solid
Analysis Batch: 69974

Client Sample ID: FEEBRIS1D-20.080-081
Prep Type: Total/NA
Prep Batch: 69635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Scandium	ND		52.5	53.2		mg/Kg	☼	101	75 - 125

Lab Sample ID: 160-13103-5 MSD
Matrix: Solid
Analysis Batch: 69974

Client Sample ID: FEEBRIS1D-20.080-081
Prep Type: Total/NA
Prep Batch: 69635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Scandium	ND		53.3	53.0		mg/Kg	☼	100	75 - 125	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-204016/1-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7.46		4.3	1.4	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Antimony	0.0747	J	0.43	0.056	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Arsenic	ND		0.87	0.23	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Barium	ND		1.7	0.081	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Beryllium	ND		0.087	0.023	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Cadmium	ND		0.043	0.014	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Calcium	7.11	J	43	5.0	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Chromium	ND		0.87	0.39	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Cobalt	ND		0.17	0.037	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Iron	ND		4.3	2.9	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Lead	ND		0.26	0.087	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Magnesium	ND		43	3.3	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Manganese	ND		0.43	0.067	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Nickel	ND		0.43	0.093	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Potassium	ND		8.7	2.6	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Silver	ND		0.17	0.021	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Sodium	7.34	J	17	5.8	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Thallium	ND		0.43	0.13	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Vanadium	ND		0.87	0.64	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Zinc	ND		4.3	1.2	mg/Kg		08/05/15 08:33	08/12/15 17:34	2
Tantalum	ND		0.87	0.14	mg/Kg		08/05/15 08:33	08/12/15 17:34	2

Lab Sample ID: MB 160-204016/1-A
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.87	0.088	mg/Kg		08/05/15 08:33	08/13/15 17:50	2
Selenium	0.156	J	0.43	0.14	mg/Kg		08/05/15 08:33	08/13/15 17:50	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-204016/4-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	187	168		mg/Kg		90	75 - 125

Lab Sample ID: LCSSRM 160-204016/2-A
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8060	6750		mg/Kg		83.8	39.5 - 160.0
Antimony	94.0	53.6		mg/Kg		57.1	22.8 - 257.4
Arsenic	113	119		mg/Kg		105.2	69.7 - 142.5
Barium	155	159		mg/Kg		102.4	72.9 - 127.1
Beryllium	109	114		mg/Kg		104.8	74.7 - 124.8
Cadmium	67.5	71.3		mg/Kg		105.6	73.2 - 126.8
Calcium	5850	5880		mg/Kg		100.6	73.7 - 126.5
Chromium	164	173		mg/Kg		105.2	70.7 - 129.9
Cobalt	100	108		mg/Kg		107.6	74.4 - 126.0
Iron	15200	13500		mg/Kg		88.7	37.4 - 162.5
Lead	90.1	89.3		mg/Kg		99.1	70.1 - 129.9
Magnesium	2790	2840		mg/Kg		101.8	65.2 - 135.1
Manganese	363	386		mg/Kg		106.3	75.8 - 124.5
Nickel	89.3	96.6		mg/Kg		108.1	72.0 - 127.7
Potassium	2770	2720		mg/Kg		98.3	61.7 - 138.3
Silver	52.6	54.5		mg/Kg		103.5	66.7 - 133.5
Sodium	686	680		mg/Kg		99.2	55.8 - 144.2
Thallium	116	125		mg/Kg		108.1	67.4 - 131.9
Vanadium	73.0	71.8		mg/Kg		98.3	59.7 - 139.7
Zinc	168	176		mg/Kg		104.7	69.0 - 131.5

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-204016/2-A
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	128	136		mg/Kg		106.0	75.2 - 125.8
Selenium	156	161		mg/Kg		103.3	67.3 - 132.1

Lab Sample ID: 160-13027-A-1-I MS
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	4600	B F1	1120	9750	4	mg/Kg	☼	464	75 - 125
Antimony	11	B	55.9	55.8		mg/Kg	☼	79	75 - 125
Arsenic	5.1	J	112	116		mg/Kg	☼	99	75 - 125
Barium	190	F1	112	299		mg/Kg	☼	99	75 - 125
Beryllium	ND		112	108		mg/Kg	☼	96	75 - 125
Cadmium	1.8		112	109		mg/Kg	☼	96	75 - 125
Calcium	29000	B	1120	26200	4	mg/Kg	☼	-275	75 - 125
Chromium	20		112	135		mg/Kg	☼	103	75 - 125
Cobalt	5.1		112	117		mg/Kg	☼	100	75 - 125
Iron	11000	F2	1120	12500	4	mg/Kg	☼	160	75 - 125
Lead	190	F1 F2	112	382	F1	mg/Kg	☼	173	75 - 125
Magnesium	5100		1120	6540	4	mg/Kg	☼	125	75 - 125
Manganese	190	F1	112	284		mg/Kg	☼	84	75 - 125
Nickel	14		112	124		mg/Kg	☼	99	75 - 125
Potassium	780	F1	1120	2380	F1	mg/Kg	☼	143	75 - 125
Silver	0.94	J	22.3	22.1		mg/Kg	☼	95	75 - 125
Sodium	460	B	1120	1480		mg/Kg	☼	91	75 - 125
Thallium	ND		22.4	21.0		mg/Kg	☼	94	75 - 125
Vanadium	11	J	112	128		mg/Kg	☼	105	75 - 125
Zinc	300	F1 F2	112	686	F1	mg/Kg	☼	343	75 - 125

Lab Sample ID: 160-13027-A-1-I MS
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	460	F1 F2	112	921	4	mg/Kg	☼	413	75 - 125
Selenium	ND		55.9	57.5		mg/Kg	☼	103	75 - 125

Lab Sample ID: 160-13027-A-1-J MSD
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	4600	B F1	1230	7210	F1	mg/Kg	☼	215	75 - 125	30	30
Antimony	11	B	61.4	59.8		mg/Kg	☼	79	75 - 125	7	30
Arsenic	5.1	J	123	132		mg/Kg	☼	103	75 - 125	13	30
Barium	190	F1	123	232	F1	mg/Kg	☼	35	75 - 125	25	30
Beryllium	ND		123	120		mg/Kg	☼	97	75 - 125	10	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-13027-A-1-J MSD
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.8		123	124		mg/Kg	☼	100	75 - 125	13	30
Calcium	29000	B	1230	20100	4	mg/Kg	☼	-744	75 - 125	26	30
Chromium	20		123	140		mg/Kg	☼	98	75 - 125	4	30
Cobalt	5.1		123	130		mg/Kg	☼	102	75 - 125	10	30
Iron	11000	F2	1230	8460	4 F2	mg/Kg	☼	-182	75 - 125	38	30
Lead	190	F1 F2	123	275	F1 F2	mg/Kg	☼	71	75 - 125	32	30
Magnesium	5100		1230	5270	4	mg/Kg	☼	10	75 - 125	22	30
Manganese	190	F1	123	249	F1	mg/Kg	☼	48	75 - 125	13	30
Nickel	14		123	135		mg/Kg	☼	98	75 - 125	8	30
Potassium	780	F1	1230	2330	F1	mg/Kg	☼	126	75 - 125	2	30
Silver	0.94	J	24.6	24.8		mg/Kg	☼	97	75 - 125	12	30
Sodium	460	B	1230	1480		mg/Kg	☼	83	75 - 125	0	30
Thallium	ND		24.6	24.4		mg/Kg	☼	99	75 - 125	15	30
Vanadium	11	J	123	136		mg/Kg	☼	102	75 - 125	6	30
Zinc	300	F1 F2	123	293	F1 F2	mg/Kg	☼	-7	75 - 125	80	30

Lab Sample ID: 160-13027-A-1-J MSD
Matrix: Solid
Analysis Batch: 205628

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	460	F1 F2	123	469	F1 F2	mg/Kg	☼	7	75 - 125	65	30
Selenium	ND		61.4	69.8		mg/Kg	☼	114	75 - 125	19	30

Lab Sample ID: 160-13027-A-1-K MS
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tantalum	ND	F1	241	5.64	J F1	mg/Kg	☼	2	75 - 125

Lab Sample ID: 160-13027-A-1-L MSD
Matrix: Solid
Analysis Batch: 205352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tantalum	ND	F1	244	4.79	J F1	mg/Kg	☼	2	75 - 125	16	30

Lab Sample ID: MB 160-206016/1-A
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Niobium	ND		2.2	0.34	mg/Kg		08/17/15 09:40	08/18/15 10:03	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-206016/2-A
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium	189	187	E	mg/Kg		99	80 - 120

Method: 6020A - Metals (ICP/MS) - RE

Lab Sample ID: 160-13027-A-1-R MS
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Niobium - RE	24	J F1	245	161	F1	mg/Kg	☼	56	75 - 125

Lab Sample ID: 160-13027-A-1-S MSD
Matrix: Solid
Analysis Batch: 206253

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 206016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Niobium - RE	24	J F1	250	168	F1	mg/Kg	☼	57	75 - 125	4	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-204554/1-A
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0099	mg/Kg		08/07/15 10:36	08/07/15 16:59	1

Lab Sample ID: LCSSRM 160-204554/2-A
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	8.37	7.40		mg/Kg		88.4	51.3 - 148.1

Lab Sample ID: 160-13027-A-5-K MS
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.990	0.989		mg/Kg	☼	100	80 - 120

Lab Sample ID: 160-13027-A-5-L MSD
Matrix: Solid
Analysis Batch: 204621

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204554

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.886	0.905		mg/Kg	☼	102	80 - 120	9	30

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-204054/1-A
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	9.96	J	50	5.4	mg/Kg		08/05/15 12:10	08/05/15 17:30	1
Bicarbonate Alkalinity as CaCO3	9.96	J	50	5.4	mg/Kg		08/05/15 12:10	08/05/15 17:30	1
Carbonate Alkalinity as CaCO3	ND		50	5.4	mg/Kg		08/05/15 12:10	08/05/15 17:30	1

Lab Sample ID: HLCS 160-204054/3-A
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	4000	3700		mg/Kg		92	90 - 110
Bicarbonate Alkalinity as CaCO3	4000	3700		mg/Kg		92	90 - 110

Lab Sample ID: LCS 160-204054/2-A
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	2000	1860		mg/Kg		93	90 - 110
Bicarbonate Alkalinity as CaCO3	2000	1860		mg/Kg		93	90 - 110

Lab Sample ID: 160-13103-2 MS
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: FEEBRIS1D-8.090-091
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	1700	B	1190	2720		mg/Kg	☼	86	75 - 125
Bicarbonate Alkalinity as CaCO3	1500	B	1190	2720		mg/Kg	☼	106	75 - 125

Lab Sample ID: 160-13103-2 DU
Matrix: Solid
Analysis Batch: 204082

Client Sample ID: FEEBRIS1D-8.090-091
Prep Type: Total/NA
Prep Batch: 204054

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	1700	B	1720		mg/Kg	☼	2	30
Bicarbonate Alkalinity as CaCO3	1500	B	1480		mg/Kg	☼	2	30
Carbonate Alkalinity as CaCO3	240		239		mg/Kg	☼	0.4	30

Method: 9045D - pH

Lab Sample ID: 160-13103-2 DU
Matrix: Solid
Analysis Batch: 203864

Client Sample ID: FEEBRIS1D-8.090-091
Prep Type: Total/NA
Prep Batch: 203620

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.50		8.513		SU		0.2	5

Method: 9045D - pH (Continued)

Lab Sample ID: LCS 160-203864/5
Matrix: Solid
Analysis Batch: 203864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.000		SU		100	99.0 - 101.0

HPLC/IC

Prep Batch: 204123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	DILeach_Prep	
160-13103-1 - DL	FEEBRIS1D-8.075-076	Total/NA	Solid	DILeach_Prep	
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-2 DU	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-2 MS	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	DILeach_Prep	
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	DILeach_Prep	
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	DILeach_Prep	
160-13103-6	DUPLICATE #5	Total/NA	Solid	DILeach_Prep	
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	DILeach_Prep	
LCS 160-204123/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-204123/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 204292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	9056A	204123
160-13103-1 - DL	FEEBRIS1D-8.075-076	Total/NA	Solid	9056A	204123
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	9056A	204123
160-13103-2 DU	FEEBRIS1D-8.090-091	Total/NA	Solid	9056A	204123
160-13103-2 MS	FEEBRIS1D-8.090-091	Total/NA	Solid	9056A	204123
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	9056A	204123
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	9056A	204123
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	9056A	204123
160-13103-6	DUPLICATE #5	Total/NA	Solid	9056A	204123
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	9056A	204123
LCS 160-204123/2-A	Lab Control Sample	Total/NA	Solid	9056A	204123
MB 160-204123/1-A	Method Blank	Total/NA	Solid	9056A	204123

Metals

Prep Batch: 69635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	3050B	
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	3050B	
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	3050B	
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	3050B	
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	3050B	
160-13103-5 MS	FEEBRIS1D-20.080-081	Total/NA	Solid	3050B	
160-13103-5 MSD	FEEBRIS1D-20.080-081	Total/NA	Solid	3050B	
160-13103-6	DUPLICATE #5	Total/NA	Solid	3050B	
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	3050B	
LCS 550-69635/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-69635/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 550-69635/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 69974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	6010B	69635
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	6010B	69635
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	6010B	69635

Metals (Continued)

Analysis Batch: 69974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	6010B	69635
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	6010B	69635
160-13103-5 MS	FEEBRIS1D-20.080-081	Total/NA	Solid	6010B	69635
160-13103-5 MSD	FEEBRIS1D-20.080-081	Total/NA	Solid	6010B	69635
160-13103-6	DUPLICATE #5	Total/NA	Solid	6010B	69635
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	6010B	69635
LCS 550-69635/2-A	Lab Control Sample	Total/NA	Solid	6010B	69635
LCSD 550-69635/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	69635
MB 550-69635/1-A	Method Blank	Total/NA	Solid	6010B	69635

Prep Batch: 204016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-I MS	Matrix Spike	Total/NA	Solid	3050B	
160-13027-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
160-13027-A-1-K MS	Matrix Spike	Total/NA	Solid	3050B	
160-13027-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	3050B	
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	3050B	
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	3050B	
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	3050B	
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	3050B	
160-13103-6	DUPLICATE #5	Total/NA	Solid	3050B	
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	3050B	
LCS 160-204016/4-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-204016/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 204554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-5-K MS	Matrix Spike	Total/NA	Solid	7471B	
160-13027-A-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	7471B	
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	7471B	
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	7471B	
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	7471B	
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	7471B	
160-13103-6	DUPLICATE #5	Total/NA	Solid	7471B	
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	7471B	
LCSSRM 160-204554/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-204554/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 204621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-5-K MS	Matrix Spike	Total/NA	Solid	7471B	204554
160-13027-A-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	204554
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	7471B	204554
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	7471B	204554
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	7471B	204554
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	7471B	204554
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	7471B	204554
160-13103-6	DUPLICATE #5	Total/NA	Solid	7471B	204554

Metals (Continued)

Analysis Batch: 204621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	7471B	204554
LCSSRM 160-204554/2-A	Lab Control Sample	Total/NA	Solid	7471B	204554
MB 160-204554/1-A	Method Blank	Total/NA	Solid	7471B	204554

Analysis Batch: 205352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-I MS	Matrix Spike	Total/NA	Solid	6020A	204016
160-13027-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	204016
160-13027-A-1-K MS	Matrix Spike	Total/NA	Solid	6020A	204016
160-13027-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	204016
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	6020A	204016
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	6020A	204016
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	6020A	204016
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	6020A	204016
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	6020A	204016
160-13103-6	DUPLICATE #5	Total/NA	Solid	6020A	204016
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	6020A	204016
LCS 160-204016/4-A	Lab Control Sample	Total/NA	Solid	6020A	204016
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	6020A	204016
MB 160-204016/1-A	Method Blank	Total/NA	Solid	6020A	204016

Analysis Batch: 205628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-I MS	Matrix Spike	Total/NA	Solid	6020A	204016
160-13027-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	204016
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	6020A	204016
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	6020A	204016
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	6020A	204016
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	6020A	204016
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	6020A	204016
160-13103-6	DUPLICATE #5	Total/NA	Solid	6020A	204016
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	6020A	204016
LCSSRM 160-204016/2-A	Lab Control Sample	Total/NA	Solid	6020A	204016
MB 160-204016/1-A	Method Blank	Total/NA	Solid	6020A	204016

Analysis Batch: 205737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	6020A	204016
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	6020A	204016
160-13103-6	DUPLICATE #5	Total/NA	Solid	6020A	204016
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	6020A	204016

Prep Batch: 206016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-R MS - RE	Matrix Spike	Total/NA	Solid	3050B	
160-13027-A-1-S MSD - RE	Matrix Spike Duplicate	Total/NA	Solid	3050B	
160-13103-1 - RE	FEEBRIS1D-8.075-076	Total/NA	Solid	3050B	
160-13103-2 - RE	FEEBRIS1D-8.090-091	Total/NA	Solid	3050B	
160-13103-3 - RE	FEEBRIS1D-4.061-062	Total/NA	Solid	3050B	
160-13103-4 - RE	FEEBRIS1D-4.064-065	Total/NA	Solid	3050B	
160-13103-5 - RE	FEEBRIS1D-20.080-081	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 206016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-6 - RE	DUPLICATE #5	Total/NA	Solid	3050B	
160-13103-7 - RE	FEEBRIS1D-20.089.090	Total/NA	Solid	3050B	
LCS 160-206016/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-206016/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 206253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13027-A-1-R MS - RE	Matrix Spike	Total/NA	Solid	6020A	206016
160-13027-A-1-S MSD - RE	Matrix Spike Duplicate	Total/NA	Solid	6020A	206016
160-13103-1 - RE	FEEBRIS1D-8.075-076	Total/NA	Solid	6020A	206016
160-13103-2 - RE	FEEBRIS1D-8.090-091	Total/NA	Solid	6020A	206016
160-13103-3 - RE	FEEBRIS1D-4.061-062	Total/NA	Solid	6020A	206016
160-13103-4 - RE	FEEBRIS1D-4.064-065	Total/NA	Solid	6020A	206016
160-13103-5 - RE	FEEBRIS1D-20.080-081	Total/NA	Solid	6020A	206016
160-13103-6 - RE	DUPLICATE #5	Total/NA	Solid	6020A	206016
160-13103-7 - RE	FEEBRIS1D-20.089.090	Total/NA	Solid	6020A	206016
LCS 160-206016/2-A	Lab Control Sample	Total/NA	Solid	6020A	206016
MB 160-206016/1-A	Method Blank	Total/NA	Solid	6020A	206016

General Chemistry

Prep Batch: 203620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	DILeach_Prep	
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-2 DU	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	DILeach_Prep	
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	DILeach_Prep	
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	DILeach_Prep	
160-13103-6	DUPLICATE #5	Total/NA	Solid	DILeach_Prep	
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 203837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13102-B-1 DU	Duplicate	Total/NA	Solid	Moisture	
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	Moisture	
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	Moisture	
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	Moisture	
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	Moisture	
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	Moisture	
160-13103-6	DUPLICATE #5	Total/NA	Solid	Moisture	
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	Moisture	

Analysis Batch: 203864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	9045D	203620
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	9045D	203620
160-13103-2 DU	FEEBRIS1D-8.090-091	Total/NA	Solid	9045D	203620
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	9045D	203620
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	9045D	203620

General Chemistry (Continued)

Analysis Batch: 203864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	9045D	203620
160-13103-6	DUPLICATE #5	Total/NA	Solid	9045D	203620
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	9045D	203620
LCS 160-203864/5	Lab Control Sample	Total/NA	Solid	9045D	

Prep Batch: 204054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	DILeach_Prep	
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-2 DU	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-2 MS	FEEBRIS1D-8.090-091	Total/NA	Solid	DILeach_Prep	
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	DILeach_Prep	
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	DILeach_Prep	
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	DILeach_Prep	
160-13103-6	DUPLICATE #5	Total/NA	Solid	DILeach_Prep	
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	DILeach_Prep	
HLCS 160-204054/3-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
LCS 160-204054/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-204054/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 204082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13103-1	FEEBRIS1D-8.075-076	Total/NA	Solid	310.1	204054
160-13103-2	FEEBRIS1D-8.090-091	Total/NA	Solid	310.1	204054
160-13103-2 DU	FEEBRIS1D-8.090-091	Total/NA	Solid	310.1	204054
160-13103-2 MS	FEEBRIS1D-8.090-091	Total/NA	Solid	310.1	204054
160-13103-3	FEEBRIS1D-4.061-062	Total/NA	Solid	310.1	204054
160-13103-4	FEEBRIS1D-4.064-065	Total/NA	Solid	310.1	204054
160-13103-5	FEEBRIS1D-20.080-081	Total/NA	Solid	310.1	204054
160-13103-6	DUPLICATE #5	Total/NA	Solid	310.1	204054
160-13103-7	FEEBRIS1D-20.089.090	Total/NA	Solid	310.1	204054
HLCS 160-204054/3-A	Lab Control Sample	Total/NA	Solid	310.1	204054
LCS 160-204054/2-A	Lab Control Sample	Total/NA	Solid	310.1	204054
MB 160-204054/1-A	Method Blank	Total/NA	Solid	310.1	204054

Appendix G-4:

Auxier & Associates Phase 1C
Data Validation Reports

Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

FROM: Cecilia Greene

TO: Mr. Dan Feezor, Feezor Engineering

CC: Mr. Paul Rosasco

DATE: 06/06/2014

RE: Transmittal of Validated Results for Eberline Work Order 14-01113

Eberline Services of Oak Ridge, TN has completed their analysis of the Phase 1 subsurface soil samples in Eberline Work Order 14-01113. The validated results are summarized in Table 1.

There is a sample number discrepancy between the COC and the Laboratory Sample Acknowledgement. The COC incorrectly references FEEBRIS 14-7.038-039. The laboratory was instructed to change the identifier to FEEBRIS 14-7.039-040. This change is reflected on the Laboratory Sample Acknowledgement, the EDD, and this summary report.

The laboratory quality control samples were validated using MARLAP criteria. All laboratory control samples fell within acceptable control limits with the exception of the protactinium-231 duplicate analysis. Protactinium-231 did not pass the MARLAP duplicate test, which requires the use of the method uncertainty in determining the control limits. Protactinium -231 has a very low method uncertainty. All other duplicate analyses for gamma spectroscopy pass the test. This condition does not constitute a non-conformance to the measurement quality objectives.

A complete verification of all of the laboratory calculations was performed. 95% of the calculated results were within ± 10% of the laboratory results. We were unable to reproduce the results of 4 protactinium-231 and 9 lead-210 results with the information supplied by the laboratory. This is probably due to complex spectral de-convoluting operations performed by the spectroscopy software.

A non-detect result (U qualifiers) is determined by considering the analytical result and its uncertainty vs. the critical value as supplied by the laboratory.

The low abundance of the gamma lines used to identify and quantify protactinium-231 and lead-210 resulted in numerous J and Q (Combined Standard Uncertainty > Required Method Uncertainty) qualifiers. This condition increased the counting and combined standard uncertainty, and the minimum detectable activity. This condition does not constitute a non-conformance to the measurement quality objectives.

The full laboratory Level IV report of analysis will be retained at Auxier & Associates offices in Knoxville, TN where it is available for inspection upon request. Should you require additional information or further clarification, please contact me or Mr. Michael Bollenbacher at (865) 675-3669.

Sincerely,

Cecilia H. Greene, MPH, NRRPT
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Health Physics and Environmental Radiation Consulting
A USA Environment, L.P. Company

Sample ID	Uranium-234 (pCi/g)	Uranium-235 (pCi/g)	Uranium-238 (pCi/g)	Thorium-230 (pCi/g)	Thorium-232 (pCi/g	Actinium-227 (pCi/g)
Analytical Method	EML U-02 Modified	EML U-02 Modified	EML U-02 Modified	EML Th-01 Modified	EML Th-01 Modified	EML Th-01 Modified
FEEBRIS 12-5.002-003	0.53 ± 0.18 {-}	< 0.001 (0.05 ± 0.07) {U}	0.60 ± 0.20 {-}	1.27 ± 0.35 {-}	0.94 ± 0.27 {-}	0.16 ± 0.10 {-}
FEEBRIS 12-5.012-013	0.67 ± 0.21 {-}	0.10 ± 0.09 {-}	0.76 ± 0.22 {-}	1.72 ± 0.49 {-}	0.87 ± 0.29 {-}	0.14 ± 0.10 {-}
FEEBRIS 13-3.019-020	0.95 ± 0.26 {-}	0.18 ± 0.11 {-}	0.92 ± 0.25 {-}	3.41 ± 0.85 {-}	1.20 ± 0.36 {-}	0.10 ± 0.09 {-}
FEEBRIS 13-3.029-030	0.72 ± 0.21 {-}	< 0.006 (0.04 ± 0.06) {U}	0.88 ± 0.24 {-}	0.79 ± 0.26 {-}	0.81 ± 0.25 {-}	0.15 ± 0.10 {-}
FEEBRIS 14-2.019-020	0.75 ± 0.20 {-}	0.10 ± 0.07 {-}	0.80 ± 0.21 {-}	2.76 ± 0.70 {-}	1.05 ± 0.32 {-}	0.23 ± 0.13 {-}
FEEBRIS 14-2.029-031	1.03 ± 0.28 {-}	< 0.015 (0.03 ± 0.06) {U}	1.02 ± 0.27 {-}	1.52 ± 0.43 {-}	1.36 ± 0.38 {-}	< 0.019 (0.09 ± 0.08) {U}
FEEBRIS 14-4.005-006	1.08 ± 0.25 {-}	0.12 ± 0.08 {-}	0.73 ± 0.19 {-}	1.29 ± 0.39 {-}	1.10 ± 0.34 {-}	0.21 ± 0.13 {-}
FEEBRIS 14-4.028-029	0.94 ± 0.23 {-}	0.08 ± 0.07 {-}	1.23 ± 0.28 {-}	2.08 ± 0.55 {-}	1.46 ± 0.39 {-}	0.17 ± 0.11 {-}
FEEBRIS 14-7.013-014	1.07 ± 0.26 {-}	0.10 ± 0.08 {-}	1.01 ± 0.26 {-}	1.54 ± 0.49 {-}	0.89 ± 0.32 {-}	< 0.049 (0.11 ± 0.12) {U}
FEEBRIS 14-7.039-040	0.86 ± 0.22 {-}	0.07 ± 0.07 {-}	0.83 ± 0.22 {-}	1.80 ± 0.54 {-}	1.26 ± 0.40 {-}	< 0.065 (0.09 ± 0.11) {U}
FEEBRIS 15-2.024-025	0.98 ± 0.26 {-}	< 0.019 (0.06 ± 0.07) {U}	0.93 ± 0.25 {-}	115.62 ± 23.75 {-}	1.84 ± 0.46 {-}	0.94 ± 0.30 {Q}
FEEBRIS 15-2.043-044	0.73 ± 0.20 {-}	< 0.008 (0.02 ± 0.04) {U}	0.82 ± 0.21 {-}	1.36 ± 0.44 {-}	1.33 ± 0.42 {-}	0.15 ± 0.11 {-}
FEEBRIS 16-3.006-007	0.69 ± 0.22 {-}	< 0.001 (0.05 ± 0.07) {U}	0.75 ± 0.23 {-}	1.86 ± 0.53 {-}	1.30 ± 0.39 {-}	< 0.036 (0.09 ± 0.09) {U}
FEEBRIS 16-3.011-012	0.90 ± 0.23 {-}	0.14 ± 0.09 {-}	1.05 ± 0.26 {-}	1.77 ± 0.52 {-}	1.37 ± 0.41 {-}	< 0.022 (0.08 ± 0.09) {U}
FEEBRIS 16-3.011-012D	0.85 ± 0.23 {-}	0.16 ± 0.10 {-}	0.98 ± 0.25 {-}	1.86 ± 0.57 {-}	1.62 ± 0.50 {-}	0.15 ± 0.12 {-}
FEEBRIS 16-6.006-007	1.11 ± 0.26 {-}	< 0.009 (0.05 ± 0.05) {U}	1.02 ± 0.25 {-}	1.67 ± 0.46 {-}	1.23 ± 0.35 {-}	0.16 ± 0.10 {-}
FEEBRIS 16-6.021-022	0.58 ± 0.21 {-}	0.11 ± 0.09 {-}	0.59 ± 0.21 {-}	1.41 ± 0.41 {-}	1.50 ± 0.41 {-}	0.37 ± 0.17 {-}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Sample ID	Protactinium-231 (pCi/g)	Radium-228 (pCi/g)	Radium-226 (pCi/g)	Lead-210 (pCi/g)	Potassium-40 (pCi/g)
Analytical Method	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified
FEEBRIS 12-5.002-003	< 0.95 (-1.43 ± 1.33) {UQJ}	0.88 ± 0.17 {-}	1.22 ± 0.16 {-}	2.22 ± 0.98 {QJ}	14.96 ± 2.05 {-}
FEEBRIS 12-5.012-013	< 1.33 (0.03 ± 0.67) {UQJ}	1.10 ± 0.24 {-}	1.15 ± 0.19 {-}	< 1.23 (2.15 ± 1.54) {UQJ}	16.25 ± 2.37 {-}
FEEBRIS 13-3.019-020	< 1.69 (0.48 ± 0.83) {UQJ}	1.39 ± 0.36 {J}	1.50 ± 0.23 {-}	<1.06 (2.24 ± 1.29) {UQJ}	24.21 ± 3.42 {-}
FEEBRIS 13-3.029-030	< 2.27 (0.78 ± 3.04) {UQJ}	0.73 ± 0.37 {J}	< 0.24 (0.39 ± 0.31) {UJ}	< 0.97 (1.81 ± 1.27) {UQJ}	8.06 ± 1.94 {-}
FEEBRIS 14-2.019-020	< 1.04 (0.10 ± 0.67) {UQJ}	1.33 ± 0.22 {-}	1.31 ± 0.18 {-}	< 1.02 (1.60 ± 1.26) {UQJ}	19.62 ± 2.55 {-}
FEEBRIS 14-2.029-031	< 1.08 (-0.26 ± 1.41) {UQJ}	1.14 ± 0.21 {-}	1.19 ± 0.19 {-}	< 1.01 (1.71 ± 1.26) {UQJ}	19.89 ± 2.63 {-}
FEEBRIS 14-4.005-006	< 0.78 (-1.27 ± 1.14) {UQJ}	0.68 ± 0.13 {-}	0.90 ± 0.14 {-}	< 0.61 (0.67 ± 0.75) {UJ}	10.89 ± 1.54 {-}
FEEBRIS 14-4.028-029	< 1.4 (-0.81 ± 1.88) {UQJ}	0.84 ± 0.24 {J}	0.82 ± 0.20 {-}	< 1.22 (1.69 ± 1.52) {UQJ}	9.40 ± 1.75 {-}
FEEBRIS 14-7.013-014	< 1.09 (0.83 ± 1.47) {UQJ}	0.48 ± 0.16 {-}	0.90 ± 0.15 {-}	< 0.74 (0.73 ± 0.92) {UQJ}	9.80 ± 1.69 {-}
FEEBRIS 14-7.039-040	< 1.64 (-0.38 ± 0.78) {UQJ}	0.99 ± 0.30 {J}	1.32 ± 0.23 {-}	< 0.69 (0.63 ± 0.95) {UQJ}	17.51 ± 2.57 {-}
FEEBRIS 15-2.024-025	5.59 ± 2.69 {QJ}	1.48 ± 0.29 {J}	4.78 ± 0.51 {-}	4.69 ± 2.09 {QJ}	18.56 ± 2.70 {-}
FEEBRIS 15-2.043-044	< 1.09 (0.10 ± 0.69) {UQJ}	1.42 ± 0.25 {-}	1.40 ± 0.20 {-}	< 0.89 (1.35 ± 1.11) {UQJ}	20.70 ± 2.73 {-}
FEEBRIS 16-3.006-007	< 1.82 (-1.79 ± 2.00) {UQJ}	1.61 ± 0.32 {-}	1.36 ± 0.24 {-}	< 1.01 (1.52 ± 1.24) {UQJ}	19.67 ± 2.89 {-}
FEEBRIS 16-3.011-012	< 1.08 (-0.21 ± 1.40) {UQJ}	1.67 ± 0.23 {-}	1.17 ± 0.19 {-}	< 0.93 (1.13 ± 1.14) {UQJ}	23.22 ± 2.86 {-}
FEEBRIS 16-3.011-012D	< 1.20 (0.76 ± 0.80) {UQJ}	1.25 ± 0.26 {-}	1.27 ± 0.19 {-}	< 0.88 (1.03 ± 1.36) {UQJ}	22.68 ± 2.95 {-}
FEEBRIS 16-6.006-007	< 1.46 (0.77 ± 2.09) {UQJ}	1.41 ± 0.26 {-}	1.36 ± 0.21 {-}	< 1.22 (1.30 ± 1.49) {UQJ}	21.65 ± 2.96 {-}
FEEBRIS 16-6.021-022	< 0.95 (0.11 ± 1.25) {UQJ}	1.26 ± 0.21 {-}	0.93 ± 0.15 {-}	< 0.65 (1.00 ± 0.98) {UQJ}	17.28 ± 2.25 {-}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty/Relative Standard Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

FROM: Cecilia Greene

TO: Mr. Dan Feezor, Feezor Engineering

CC: Mr. Paul Rosasco

DATE: 06/06/2014

RE: Transmittal of Validated Results for Eberline Work Orders 14-02048, 14-04046 and 14-04075

Eberline Services of Oak Ridge, TN has completed their analysis of the Phase 1 subsurface soil samples in Eberline Work Orders 14-02048, 14-04046 and 14-04075. The validated results are summarized in Table 1.

The laboratory quality control samples were validated using MARLAP criteria. All laboratory control samples fell within acceptable control limits with the exception of the protactinium-231 duplicate analysis. Protactinium-231 did not pass the MARLAP duplicate test, which requires the use of the method uncertainty in determining the control limits. Protactinium -231 has a very low method uncertainty. All other duplicate analyses for gamma spectroscopy pass the test. This condition does not constitute a non-conformance to the measurement quality objectives.

A complete verification of all of the laboratory calculations was performed. 97% of the calculated results were within ± 10% of the laboratory results. We were unable to reproduce the results of 2 protactinium-231, 1 actinium-228 2, and lead-210 results with the information supplied by the laboratory. This is probably due to complex spectral de-convoluting operations performed by the spectroscopy software.

Sample FEEBRIS 05-3.028-029 contained elevated levels of uranium, and samples FEEBRIS 01-2.039-040, FEEBRIS 05-3.028-029, FEEBRIS 05-3.029-030 and FEEBRIS 05-3.033-034 contained elevated levels of thorium. The laboratory did not separate the elevated samples from the non-elevated samples during the screening process. The aliquots for all of the samples in 14-02048 were reduced which resulted in increased combined standard uncertainties and minimum detectable activities, and Q and J qualifiers. Samples that did not contain elevated activity were re-analyzed using standard aliquots for thorium in work order 14-04046 and for uranium in work order 14-04075. The uranium and thorium results for the elevated samples, and the gamma results, are found in 14-02048 since those samples did not require reanalysis. The samples for all three work orders have been merged for this validation report.

A non-detect result (U qualifiers) is determined by considering the analytical result and its uncertainty vs. the critical value as supplied by the laboratory. The CSU was not considered when applying the U qualifier for those samples that were analyzed with reduced aliquots (very high CSU).

The low abundance of the gamma lines used to identify and quantify protactinium-231 and lead-210 resulted in numerous J and Q (Combined Standard Uncertainty > Required Method Uncertainty) qualifiers. This condition increased the counting and combined standard uncertainty, and the minimum detectable activity. This condition does not constitute a non-conformance to the measurement quality objectives.

The full laboratory Level IV report of analysis will be retained at Auxier & Associates offices in Knoxville, TN where it is available for inspection upon request. Should you require additional information or further clarification, please contact me or Mr. Michael Bollenbacher at (865) 675-3669.

Sincerely,



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Health Physics and Environmental Radiation Consulting
A USA Environment, L.P. Company

Sample ID	Uranium-234 (pCi/g)	Uranium-235 (pCi/g)	Uranium-238 (pCi/g)	Thorium-230 (pCi/g)	Thorium-232 (pCi/g	Actinium-227 (pCi/g)
Analytical Method	EML U-02 Modified	EML U-02 Modified	EML U-02 Modified	EML Th-01 Modified	EML Th-01 Modified	EML Th-01 Modified
FEEBRIS01-2.024-025	0.76 ± 0.23 {-}	0.14 ± 0.10 {-}	1.20 ± 0.30 {-}	3.41 ± 0.84 {-}	1.34 ± 0.38 {-}	0.22 ± 0.13 {-}
FEEBRIS01-2.028-029	0.73 ± 0.22 {-}	0.09 ± 0.09 {-}	0.57 ± 0.19 {-}	1.38 ± 0.46 {-}	0.71 ± 0.29 {-}	< 0.02 (0.07 ± 0.09) {U}
FEEBRIS01-2.039-040	3.56 ± 0.67 {-}	0.34 ± 0.16 {-}	3.84 ± 0.71 {-}	416.66 ± 123.32 {QJ}	5.23 ± 2.46 {QJ}	3.56 ± 1.96 {Q}
FEEBRIS02-2.005-006	0.98 ± 0.25 {-}	0.10 ± 0.08 {-}	0.87 ± 0.23 {-}	1.24 ± 0.39 {-}	0.89 ± 0.29 {-}	0.14 ± 0.11 {-}
FEEBRIS02-2.021-022	0.91 ± 0.24 {-}	< 0.005 (0.07 ± 0.07) {U}	0.77 ± 0.21 {-}	1.36 ± 0.40 {-}	1.25 ± 0.36 {-}	0.14 ± 0.10 {-}
FEEBRIS05-3.028-029	428.67 ± 73.20 {J}	22.87 ± 12.50 {QJ}	431.06 ± 73.50 {J}	25824.84 ± 7537.87 {QJ}	202.82 ± 78.56 {QJ}	290.76 ± 107.62 {QJ}
FEEBRIS05-3.029-030	2.86 ± 0.50 {-}	0.19 ± 0.10 {-}	2.51 ± 0.46 {-}	443.57 ± 97.72 {QJ}	6.76 ± 2.48 {QJ}	3.84 ± 1.82 {QJ}
FEEBRIS05-3.029-030D	0.62 ± 0.20 {-}	< 0.001 (0.07 ± 0.07) {U}	0.56 ± 0.19 {-}	0.94 ± 0.31 {-}	0.45 ± 0.19 {-}	< 0.01 (0.09 ± 0.08) {U}
FEEBRIS05-3.033-034	12.39 ± 1.90 {-}	0.70 ± 0.25 {Q}	11.95 ± 1.84 {-}	1814.71 ± 559.10 {QJ}	14.41 ± 8.16 {QJ}	20.75 ± 10.63 {QJ}
FEEBRIS08-1.028-029	0.86 ± 0.24 {-}	0.11 ± 0.08 {-}	0.91 ± 0.24 {-}	1.81 ± 0.46 {-}	0.88 ± 0.26 {-}	0.13 ± 0.09 {-}
FEEBRIS08-1.040-041	0.84 ± 0.23 {-}	0.08 ± 0.07 {-}	1.00 ± 0.26 {-}	1.57 ± 0.46 {-}	1.31 ± 0.38 {-}	0.18 ± 0.12 {-}
FEEBRISWL119.005-006	1.02 ± 0.27 {-}	0.18 ± 0.11 {-}	0.96 ± 0.26 {-}	1.38 ± 0.38 {-}	1.29 ± 0.34 {-}	0.19 ± 0.11 {-}
FEEBRISWL119.051-052	0.41 ± 0.14 {-}	< 0.005 (0.06 ± 0.06) {U}	0.42 ± 0.14 {-}	0.57 ± 0.32 {-}	0.55 ± 0.30 {-}	< 0.1 (-0.01 ± 0.12) {U}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Sample ID	Protactinium-231 (pCi/g)	Radium-228 (pCi/g)	Radium-226 (pCi/g)	Lead-210 (pCi/g)	Potassium-40 (pCi/g)
Analytical Method	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified
FEEBRIS01-2.024-025	< 1.08 (0.31 ± 0.69) {UQJ}	1.13 ± 0.20 {-}	1.36 ± 0.20 {-}	< 1.03 (1.27 ± 1.27) {UQJ}	18.33 ± 2.45 {-}
FEEBRIS01-2.028-029	< 1.2 (0.31 ± 1.67) {UQJ}	< 0.23 (0.35 ± 0.20) {U}	0.61 ± 0.16 {-}	< 1.17 (1.38 ± 1.45) {UQJ}	5.91 ± 1.26 {-}
FEEBRIS01-2.039-040	< 1.56 (-0.19 ± 2.04) {UQJ}	1.28 ± 0.37 {J}	4.98 ± 0.48 {-}	3.14 ± 1.29 {QJ}	16.92 ± 2.37 {-}
FEEBRIS02-2.005-006	< 0.95 (-0.18 ± 0.63) {UQJ}	1.14 ± 0.19 {-}	0.99 ± 0.16 {-}	< 0.69 (1.09 ± 1.06) {UQJ}	17.56 ± 2.31 {-}
FEEBRIS02-2.021-022	< 1.39 (-0.49 ± 0.99) {UQJ}	1.44 ± 0.28 {J}	1.17 ± 0.21 {-}	< 1.34 (2.64 ± 1.68) {UQJ}	21.04 ± 3.07 {-}
FEEBRIS05-3.028-029	1681.18 ± 185.84 {J}	19.82 ± 6.41 {QJ}	1487.21 ± 121.47 {J}	262.56 ± 51.47 {QJ}	18.57 ± 20.54 {QJ}
FEEBRIS05-3.029-030	< 1.83 (-0.15 ± 2.41) {UQJ}	1.19 ± 0.28 {J}	5.60 ± 0.55 {-}	5.52 ± 1.91 {QJ}	15.86 ± 2.19 {-}
FEEBRIS05-3.029-030D	< 1.12 (1.35 ± 1.50) {UQJ}	< 0.21 (0.36 ± 0.21) {U}	0.44 ± 0.12 {-}	< 0.48 (0.64 ± 0.65) {U}	11.70 ± 1.90 {-}
FEEBRIS05-3.033-034	31.25 ± 5.42 {J}	1.96 ± 0.43 {J}	32.62 ± 2.44 {J}	25.30 ± 4.15 {J}	14.73 ± 3.81 {QJ}
FEEBRIS08-1.028-029	< 1.41 (0.53 ± 0.70) {UQJ}	0.88 ± 0.19 {J}	1.27 ± 0.21 {-}	< 0.98 (1.71 ± 1.19) {UQJ}	8.35 ± 1.58 {-}
FEEBRIS08-1.040-041	< 1.1 (0.03 ± 1.42) {UQJ}	1.59 ± 0.27 {-}	1.49 ± 0.22 {-}	< 0.95 (1.64 ± 1.19) {UQJ}	21.13 ± 2.70 {-}
FEEBRISWL119.005-006	< 1.14 (0.03 ± 1.50) {UQJ}	1.39 ± 0.23 {-}	1.35 ± 0.19 {-}	< 0.76 (1.67 ± 1.13) {UQJ}	15.65 ± 2.13 {-}
FEEBRISWL119.051-052	< 0.67 (0.34 ± 0.83) {UQJ}	0.52 ± 0.12 {-}	0.40 ± 0.09 {-}	< 0.45 (0.52 ± 0.56) {U}	16.33 ± 2.03 {-}

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- Validated, no qualifiers assigned

Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

FROM: Cecilia Greene

TO: Mr. Dan Feezor, Feezor Engineering

CC: Mr. Paul Rosasco

DATE: 06/06/2014

RE: Transmittal of Validated Results for Eberline Work Order 14-03004

Eberline Services of Oak Ridge, TN has completed their analysis of the Phase 1 subsurface soil samples in Eberline Work Order 14-03004. The validated results are summarized in Table 1.

The laboratory quality control samples were validated using MARLAP criteria. All laboratory control samples fell within acceptable control limits with the exception of the protactinium-231 duplicate analysis. Protactinium-231 did not pass the MARLAP duplicate test, which requires the use of the method uncertainty in determining the control limits. Protactinium -231 has a very low method uncertainty. All other duplicate analyses for gamma spectroscopy pass the test. This condition does not constitute a non-conformance to the measurement quality objectives.

A complete verification of all of the laboratory calculations was performed. 99% of the calculated results were within ± 10% of the laboratory results. We were unable to reproduce the results of 2 lead-210 results with the information supplied by the laboratory. This is probably due to complex spectral de-convoluting operations performed by the spectroscopy software.

A non-detect result (U qualifiers) is determined by considering the analytical result and its uncertainty vs. the critical value as supplied by the laboratory.

The low abundance of the gamma lines used to identify and quantify protactinium-231 and lead-210 resulted in numerous J and Q (Combined Standard Uncertainty > Required Method Uncertainty) qualifiers. This condition increased the counting and combined standard uncertainty, and the minimum detectable activity. This condition does not constitute a non-conformance to the measurement quality objectives.

The full laboratory Level IV report of analysis will be retained at Auxier & Associates offices in Knoxville, TN where it is available for inspection upon request. Should you require additional information or further clarification, please contact me or Mr. Michael Bollenbacher at (865) 675-3669.

Sincerely,

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Sample ID	Uranium-234 (pCi/g)	Uranium-235 (pCi/g)	Uranium-238 (pCi/g)	Thorium-230 (pCi/g)	Thorium-232 (pCi/g	Actinium-227 (pCi/g)
Analytical Method	EML U-02 Modified	EML U-02 Modified	EML U-02 Modified	EML Th-01 Modified	EML Th-01 Modified	EML Th-01 Modified
FEEBRICS.021314	0.82 ± 0.25 {-}	< 0.004 (0.02 ± 0.04) {U}	0.81 ± 0.25 {-}	1.57 ± 0.48 {-}	0.89 ± 0.31 {-}	0.13 ± 0.11 {-}
FEEBRISIC-6.019-020	1.26 ± 0.30 {-}	0.10 ± 0.08 {-}	1.03 ± 0.26 {-}	1.29 ± 0.38 {-}	1.71 ± 0.45 {-}	0.13 ± 0.10 {-}
FEEBRISIC-6.024-025	1.46 ± 0.36 {-}	0.17 ± 0.12 {-}	1.49 ± 0.36 {-}	51 ± 11 {-}	1.43 ± 0.40 {-}	0.34 ± 0.16 {-}
FEEBRISIC-6.025-026	1.08 ± 0.27 {-}	0.10 ± 0.08 {-}	1.04 ± 0.26 {-}	240 ± 52 {-}	1.09 ± 0.33 {-}	1.77 ± 0.51{Q}
FEEBRISIC-6.026-027	1.15 ± 0.27 {-}	< 0.003 (0.04 ± 0.05) {U}	1.12 ± 0.27 {-}	202 ± 40 {-}	0.88 ± 0.25 {-}	1.63 ± 0.42{Q}
FEEBRIS13-6.021-022	0.91 ± 0.24 {-}	0.11 ± 0.09 {-}	1.10 ± 0.27 {-}	2.75 ± 0.68 {-}	1.21 ± 0.34 {-}	0.20 ± 0.11 {-}
FEEBRIS13-6.021-022D	1.0 ± 0.27 {-}	0.10 ± 0.09 {-}	1.01 ± 0.27 {-}	1.40 ± 0.39 {-}	1.11 ± 0.32 {-}	0.13 ± 0.09 {-}
FEEBRIS13-6.039-040	0.81 ± 0.32 {-}	< 0.01 (0.09 ± 0.11) {U}	1.04 ± 0.37 {-}	1.38 ± 0.43 {-}	0.97 ± 0.32 {-}	0.17 ± 0.12 {-}
FEEBRI14-5.012-013	0.80 ± 0.23 {-}	0.12 ± 0.09 {-}	0.87 ± 0.24 {-}	1.66 ± 0.48 {-}	1.19 ± 0.36 {-}	0.17 ± 0.11 {-}
FEEBRI14-5.060-061	0.98 ± 0.25 {-}	0.09 ± 0.08 {-}	0.86 ± 0.23 {-}	1.03 ± 0.32 {-}	1.12 ± 0.33 {-}	< 0.02 (0.06 ± 0.07) {U}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Sample ID	Protactinium-231 (pCi/g)	Radium-228 (pCi/g)	Radium-226 (pCi/g)	Lead-210 (pCi/g)	Potassium-40 (pCi/g)
Analytical Method	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified
FEEBRICS.021314	< 1.21 (1.62 ± 1.61) {UQJ}	0.72 ± 0.18 {-}	1.13 ± 0.19 {-}	< 1.09 (1.18 ± 1.33) {UQJ}	14.34 ± 2.10 {-}
FEEBRISIC-6.019-020	< 1.10 (-0.83 ± 1.48) {UQJ}	1.13 ± 0.23 {-}	1.40 ± 0.19 {-}	< 0.86 (0.97 ± 1.06) {UQJ}	21.23 ± 2.72 {-}
FEEBRISIC-6.024-025	< 1.21 (0.69 ± 1.53) {UQJ}	1.28 ± 0.24 {-}	2.65 ± 0.29 {-}	2.08 ± 1.05 {QJ}	15.96 ± 2.15 {-}
FEEBRISIC-6.025-026	< 4.04 (1.63 ± 5.25) {UQJ}	< 0.46 (0.13 ± 0.63) {UJ}	7.04 ± 0.94 {J}	12.66 ± 4.78 {QJ}	< 1.97 (3.98 ± 2.14) {UJ}
FEEBRISIC-6.026-027	< 4.70 (1.67 ± 4.19) {UQJ}	< 0.57 (0.43 ± 0.71) {UJ}	8.79 ± 0.95 {J}	< 2.32 (5.24 ± 3.16) {UQJ}	6.00 ± 3.27 {J}
FEEBRIS13-6.021-022	< 1.46 (-0.29 ± 0.96) {UQJ}	1.24 ± 0.25 {J}	1.42 ± 0.22 {-}	< 1.17 (1.48 ± 1.44) {UQJ}	19.61 ± 2.85 {-}
FEEBRIS13-6.021-022D	< 0.93 (0.07 ± 0.60) {UQJ}	1.10 ± 0.21 {-}	1.26 ± 0.19 {-}	2.12 ± 0.98 {QJ}	18.35 ± 2.36 {-}
FEEBRIS13-6.039-040	< 1.06 (-0.95 ± 1.49) {UQJ}	1.34 ± 0.24 {-}	1.16 ± 0.18 {-}	< 0.77 (1.32 ± 1.16) {UQJ}	17.79 ± 2.36 {-}
FEEBRI14-5.012-013	3.64 ± 1.88 {QJ}	1.22 ± 0.28 {-}	1.24 ± 0.22 {-}	< 1.02 (1.08 ± 1.25) {UQJ}	20.32 ± 2.92 {-}
FEEBRI14-5.060-061	<2.39 (-0.58 ± 2.16) {UQJ}	1.43 ± 0.45 {J}	1.31 ± 0.29 {J}	< 1.02 (0.58 ± 1.41) {UQJ}	19.26 ± 3.30 {J}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty/Relative Standard Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Auxier & Associates, Inc.
Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

FROM: Cecilia Greene

TO: Mr. Dan Feezor, Feezor Engineering

CC: Mr. Paul Rosasco

DATE: 06/06/2014

RE: Transmittal of Validated Results for Eberline Work Order 14-03082

Eberline Services of Oak Ridge, TN has completed their analysis of the Phase 1 subsurface soil samples in Eberline Work Order 14-03082. The validated results are summarized in Table 1.

The laboratory quality control samples were validated using MARLAP criteria. All laboratory control samples fell within acceptable control limits.

A complete verification of all of the laboratory calculations was performed. 99.5% of the calculated results were within ± 10% of the laboratory results. We were unable to reproduce the results of 1 lead-210 result with the information supplied by the laboratory. This is probably due to complex spectral de-convoluting operations performed by the spectroscopy software.

A non-detect result (U qualifiers) is determined by considering the analytical result and its uncertainty vs. the critical value as supplied by the laboratory.

The low abundance of the gamma lines used to identify and quantify protactinium-231 and lead-210 resulted in numerous J and Q (Combined Standard Uncertainty > Required Method Uncertainty) qualifiers. This condition increased the counting and combined standard uncertainty, and the minimum detectable activity. This condition does not constitute a non-conformance to the measurement quality objectives.

The full laboratory Level IV report of analysis will be retained at Auxier & Associates offices in Knoxville, TN where it is available for inspection upon request. Should you require additional information or further clarification, please contact me or Mr. Michael Bollenbacher at (865) 675-3669.

Sincerely,

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Health Physics and Environmental Radiation Consulting
A USA Environment, L.P. Company

Sample ID	Uranium-234 (pCi/g)	Uranium-235 (pCi/g)	Uranium-238 (pCi/g)	Thorium-230 (pCi/g)	Thorium-232 (pCi/g	Actinium-227 (pCi/g)
Analytical Method	EML U-02 Modified	EML U-02 Modified	EML U-02 Modified	EML Th-01 Modified	EML Th-01 Modified	EML Th-01 Modified
FEEBRIS02-3.034-035GP	0.49 ± 0.12 {-}	0.04 ± 0.03 {-}	0.44 ± 0.11 {-}	16.79 ± 3.42 {-}	0.26 ± 0.09 {-}	0.12 ± 0.06 {-}
FEEBRIS08-1B.028-029GP	0.35 ± 0.11 {-}	0.05 ± 0.04 {-}	0.37 ± 0.11 {-}	3.42 ± 0.84 {-}	0.15 ± 0.08 {-}	< 0.02 (0.06 ± 0.06) {U}
FEEBRIS08-1B.028-029GP-D	0.41 ± 0.11 {-}	0.05 ± 0.04 {-}	0.43 ± 0.11 {-}	10.39 ± 2.65 {Q}	0.19 ± 0.11 {-}	0.15 ± 0.09 {-}
FEEBRIS08-1B.029-030GP	0.74 ± 0.17 {-}	0.06 ± 0.04 {-}	0.50 ± 0.13 {-}	0.81 ± 0.24 {-}	0.13 ± 0.07 {-}	< 0.02 (0.05 ± 0.05) {U}
FEEBRIS1C-12.049-050GP	0.61 ± 0.13 {-}	0.06 ± 0.04 {-}	0.48 ± 0.11 {-}	0.43 ± 0.16 {-}	0.17 ± 0.09 {-}	< 0.001 (0.05 ± 0.05) {U}
FEEBRIS1C-12B.053-054GP	0.62 ± 0.15 {-}	< 0.01 (0.03 ± 0.04) {U}	0.72 ± 0.17 {-}	0.66 ± 0.23 {-}	0.34 ± 0.14 {-}	< 0.02 (0.07 ± 0.07) {U}
FEEBRIS1C-12B.054-055GP	0.52 ± 0.12 {-}	0.04 ± 0.04 {-}	0.61 ± 0.14 {-}	9.41 ± 2.17 {-}	0.39 ± 0.14 {-}	0.23 ± 0.10 {-}
FEEBRIS1C-6TI.022-023GP	0.60 ± 0.13 {-}	0.05 ± 0.04 {-}	0.53 ± 0.12 {-}	0.39 ± 0.14 {-}	0.21 ± 0.09 {-}	0.06 ± 0.04 {-}
FEEBRISWL-119.034-035GP	0.60 ± 0.16 {-}	< 0.005 (0.03 ± 0.04) {U}	0.58 ± 0.16 {-}	0.38 ± 0.13 {-}	0.31 ± 0.11 {-}	0.05 ± 0.04 {-}
FEEBRISWL-119B.038-039GP	0.36 ± 0.10 {-}	< 0.01 (0.03 ± 0.03) {U}	0.35 ± 0.10 {-}	0.65 ± 0.19 {-}	0.56 ± 0.16 {-}	< 0.01 (0.06 ± 0.05) {U}
FEEBRISWL-119C.043-044GP	0.48 ± 0.12 {-}	< 0.001 (0.02 ± 0.02) {U}	0.53 ± 0.13 {-}	3.03 ± 0.68 {-}	0.40 ± 0.13 {-}	0.10 ± 0.06 {-}
FEEBRISWL-119C.045-046GP	0.48 ± 0.11 {-}	0.04 ± 0.03 {-}	0.38 ± 0.10 {-}	4.20 ± 1.37 {Q}	0.46 ± 0.23 {-}	0.25 ± 0.16 {-}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Sample ID	Protactinium-231 (pCi/g)	Radium-228 (pCi/g)	Radium-226 (pCi/g)	Lead-210 (pCi/g)	Potassium-40 (pCi/g)
Analytical Method	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified
FEEBRIS02-3.034-035GP	< 3.67 (0.24 ± 3.30) {UQJ}	1.64 ± 0.49 {J}	3.23 ± 0.52 {-}	< 1.63 (0.74 ± 2.26) {UQJ}	20.70 ± 3.99 {J}
FEEBRIS08-1B.028-029GP	< 1.63 (0.99 ± 2.06) {UQJ}	< 0.27 (0.48 ± 0.33) {UJ}	0.96 ± 0.19 {J}	< 1.03 (1.03 ± 1.57) {UQJ}	6.68 ± 1.51 {J}
FEEBRIS08-1B.028-029GP-D	< 2.08 (0.28 ± 2.99) {UQJ}	0.83 ± 0.37 {J}	1.73 ± 0.34 {-}	< 1.73 (3.76 ± 2.07) {UQJ}	17.26 ± 3.04 {J}
FEEBRIS08-1B.029-030GP	< 1.19 (0.68 ± 1.59) {UQJ}	< 0.16 (0.13 ± 0.20) {U}	0.58 ± 0.15 {-}	2.88 ± 1.27 {QJ}	2.50 ± 0.94 {-}
FEEBRIS1C-12.049-050GP	< 1.31 (-0.41 ± 1.73) {UQJ}	1.01 ± 0.33 {J}	1.53 ± 0.24 {-}	< 0.95 (1.62 ± 1.20) {UQJ}	13.35 ± 2.12 {-}
FEEBRIS1C-12B.053-054GP	< 2.13 (-0.62 ± 1.66) {UQJ}	< 0.32 (0.63 ± 0.38) {UJ}	1.14 ± 0.29 {-}	< 1.06 (1.35 ± 1.31) {UQJ}	12.30 ± 2.35 {-}
FEEBRIS1C-12B.054-055GP	< 1.50 (-0.38 ± 1.86) {UQJ}	1.02 ± 0.26 {-}	1.86 ± 0.26 {-}	< 1.07 (2.24 ± 1.30) {UQJ}	12.17 ± 2.00 {-}
FEEBRIS1C-6TI.022-023GP	< 1.09 (-0.26 ± 1.41) {UQJ}	0.84 ± 0.21 {-}	1.45 ± 0.20 {-}	< 0.762 (1.64 ± 1.13) {UQJ}	13.56 ± 1.91 {-}
FEEBRISWL-119.034-035GP	< 2.60 (0.12 ± 1.56) {UQJ}	1.36 ± 0.43 {J}	1.28 ± 0.32 {J}	< 1.10 (0.55 ± 1.53) {UQJ}	19.74 ± 3.39 {-}
FEEBRISWL-119B.038-039GP	< 2.32 (0.26 ± 2.79) {UQJ}	1.44 ± 0.37 {J}	1.57 ± 0.33 {-}	< 1.95 (1.97 ± 2.39) {UQJ}	25.89 ± 4.06 {-}
FEEBRISWL-119C.043-044GP	< 1.03 (-0.72 ± 1.38) {UQJ}	0.98 ± 0.21 {-}	1.31 ± 0.20 {-}	< 1.12 (1.30 ± 1.38) {UQJ}	16.05 ± 2.27 {-}
FEEBRISWL-119C.045-046GP	< 1.15 (-0.16 ± 1.50) {UQJ}	< 0.22 (0.32 ± 0.25) {U}	0.87 ± 0.18 {-}	< 0.901 (1.11 ± 1.34) {UQJ}	6.59 ± 1.50 {-}

U - Result is less than the Critical Value

Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty/Relative Standard Uncertainty

J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result

- Validated, no qualifiers assigned

Auxier & Associates, Inc.
Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

FROM: Cecilia Greene

TO: Mr. Dan Feezor, Feezor Engineering

CC: Mr. Paul Rosasco

DATE: 06/06/2014

RE: Transmittal of Validated Results for Eberline Work Order 14-03083

Eberline Services of Oak Ridge, TN has completed their analysis of the Phase 1 subsurface soil samples in Eberline Work Order 14-03083. The validated results are summarized in Table 1.

The laboratory quality control samples were validated using MARLAP criteria. All laboratory control samples fell within acceptable control limits.

A complete verification of all of the laboratory calculations was performed. 96% of the calculated results were within ± 10% of the laboratory results. We were unable to reproduce the results of 1 protactinium-231 and 6 lead-210 results with the information supplied by the laboratory. This is probably due to complex spectral de-convoluting operations performed by the spectroscopy software.

A non-detect result (U qualifiers) is determined by considering the analytical result and its uncertainty vs. the critical value as supplied by the laboratory.

The low abundance of the gamma lines used to identify and quantify protactinium-231 and lead-210 resulted in numerous J and Q (Combined Standard Uncertainty > Required Method Uncertainty) qualifiers. This condition increased the counting and combined standard uncertainty, and the minimum detectable activity. This condition does not constitute a non-conformance to the measurement quality objectives.

The full laboratory Level IV report of analysis will be retained at Auxier & Associates offices in Knoxville, TN where it is available for inspection upon request. Should you require additional information or further clarification, please contact me or Mr. Michael Bollenbacher at (865) 675-3669.

Sincerely,

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Health Physics and Environmental Radiation Consulting
A USA Environment, L.P. Company

Sample ID	Uranium-234 (pCi/g)	Uranium-235 (pCi/g)	Uranium-238 (pCi/g)	Thorium-230 (pCi/g)	Thorium-232 (pCi/g	Actinium-227 (pCi/g)
Analytical Method	EML U-02 Modified	EML U-02 Modified	EML U-02 Modified	EML Th-01 Modified	EML Th-01 Modified	EML Th-01 Modified
FEEBRIS02-2.031-032GP	0.82 ± 0.17 {-}	0.03 ± 0.03 {-}	0.71 ± 0.15 {-}	205.53 ± 43.37 {-}	1.39 ± 0.33 {-}	1.16 ± 0.31 {Q}
FEEBRIS02-3.035-036GP	1.60 ± 0.26 {-}	0.17 ± 0.07 {-}	1.63 ± 0.27 {-}	281.62 ± 53.20 {-}	2.60 ± 0.49 {-}	1.76 ± 0.38 {Q}
FEEBRIS1-2.023-024GP	0.53 ± 0.12 {-}	0.04 ± 0.04 {-}	0.37 ± 0.10 {-}	1.09 ± 0.29 {-}	0.54 ± 0.16 {-}	0.05 ± 0.04 {-}
FEEBRIS1-2.028-029GP	0.22 ± 0.08 {-}	< 0.002 (0.01 ± 0.02) {U}	0.16 ± 0.06 {-}	0.64 ± 0.19 {-}	< 0.04 (0.06 ± 0.05) {U}	0.05 ± 0.04 {-}
FEEBRIS1C-12.048-049GP	0.54 ± 0.14 {-}	< 0.004 (0.01 ± 0.02) {U}	0.56 ± 0.14 {-}	1.74 ± 0.52 {-}	< 0.12 (0.14 ± 0.10) {U}	< 0.02 (0.05 ± 0.06) {U}
FEEBRIS1C-12C.055-056GP	1.83 ± 0.34 {-}	0.22 ± 0.10 {-}	1.92 ± 0.35 {-}	398.76 ± 91.99 {-}	2.19 ± 0.55 {-}	2.67 ± 0.70 {Q}
FEEBRIS1C-2RA.028-029GP	0.47 ± 0.13 {-}	0.05 ± 0.04 {-}	0.59 ± 0.14 {-}	2.47 ± 0.53 {-}	0.27 ± 0.09 {-}	0.07 ± 0.04 {-}
FEEBRIS1C-4R.046-047GP	0.88 ± 0.26 {-}	< 0.001 (0.03 ± 0.06) {U}	0.90 ± 0.26 {-}	4.45 ± 1.10 {-}	< 0.06 (0.08 ± 0.06) {U}	< 0.01 (0.03 ± 0.04) {U}
FEEBRIS1C-4RB.046-047GP	0.55 ± 0.20 {-}	< 0.001 (0.03 ± 0.06) {U}	0.58 ± 0.20 {-}	2.03 ± 0.61 {-}	< 0.07 (0.18 ± 0.11) {U}	< 0.004 (0.05 ± 0.06) {U}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Sample ID	Protactinium-231 (pCi/g)	Radium-228 (pCi/g)	Radium-226 (pCi/g)	Lead-210 (pCi/g)	Potassium-40 (pCi/g)
Analytical Method	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified
FEEBRIS02-2.031-032GP	< 4.05 (1.90 ± 2.11) {UQJ}	< 0.46 (0.79 ± 0.58) {UJ}	13.77 ± 1.28 {J}	26.27 ± 4.62 {J}	11.97 ± 3.24 {J}
FEEBRIS02-3.035-036GP	< 5.29 (2.86 ± 6.79) {UQJ}	< 0.59 (0.45 ± 0.78) {UJ}	21.08 ± 2.06 {J}	43.34 ± 6.44 {J}	< 2.08 (3.93 ± 2.80) {UJ}
FEEBRIS1-2.023-024GP	< 1.65 (1.20 ± 2.25) {UQJ}	1.27 ± 0.33 {J}	1.45 ± 0.26 {-}	2.87 ± 1.47 {QJ}	18.80 ± 2.92 {-}
FEEBRIS1-2.028-029GP	< 1.75 (1.33 ± 2.15) {UQJ}	< 0.24 (0.23 ± 0.29) {UJ}	0.85 ± 0.24 {-}	< 1.72 (2.74 ± 2.17) {UQJ}	7.69 ± 2.06 {J}
FEEBRIS1C-12.048-049GP	< 3.34 (-0.75 ± 2.65) {UQJ}	1.48 ± 0.65 {J}	1.46 ± 0.39 {J}	< 2.07 (2.09 ± 2.52) {UQJ}	16.14 ± 3.45 {J}
FEEBRIS1C-12C.055-056GP	< 10.07 (.74 ± 7.53) {UQJ}	< 0.60 (1.25 ± 0.67) {UJ}	31.01 ± 2.47 {J}	37.42 ± 6.55 {J}	12.43 ± 3.04 {J}
FEEBRIS1C-2RA.028-029GP	< 2.05 (0.58 ± 4.32) {UQJ}	1.16 ± 0.52 {J}	2.17 ± 0.34 {-}	< 1.43 (2.09 ± 1.77) {UQJ}	14.63 ± 2.98 {J}
FEEBRIS1C-4R.046-047GP	< 21.07 (0.27 ± 1.37) {UQJ}	0.65 ± 0.19 {-}	1.74 ± 0.23 {-}	< 0.93 (1.02 ± 1.14) {UQJ}	6.30 ± 1.12 {-}
FEEBRIS1C-4RB.046-047GP	< 1.22 (-1.58 ± 1.70) {UQJ}	0.66 ± 0.24 {-}	1.20 ± 0.19 {-}	< 1.06 (1.54 ± 1.33) {UQJ}	6.60 ± 1.28 {-}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty/Relative Standard Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Auxier & Associates, Inc.
Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

FROM: Cecilia Greene

TO: Mr. Dan Feezor, Feezor Engineering

CC: Mr. Paul Rosasco

DATE: 06/06/2014

RE: Transmittal of Validated Results for Eberline Work Order 14-04118

Eberline Services of Oak Ridge, TN has completed their analysis of the Phase 1 subsurface soil samples in Eberline Work Order 14-04118. The validated results are summarized in Table 1.

The laboratory quality control samples were validated using MARLAP criteria. All laboratory control samples fell within acceptable control limits.

A complete verification of all of the laboratory calculations was performed. 98% of the calculated results were within ± 10% of the laboratory results. We were unable to reproduce the results of 5 lead-210 results with the information supplied by the laboratory. This is probably due to complex spectral de-convoluting operations performed by the spectroscopy software.

A non-detect result (U qualifiers) is determined by considering the analytical result and its uncertainty vs. the critical value as supplied by the laboratory.

The low abundance of the gamma lines used to identify and quantify protactinium-231 and lead-210 resulted in numerous J and Q (Combined Standard Uncertainty > Required Method Uncertainty) qualifiers. This condition increased the counting and combined standard uncertainty, and the minimum detectable activity. This condition does not constitute a non-conformance to the measurement quality objectives.

The full laboratory Level IV report of analysis will be retained at Auxier & Associates offices in Knoxville, TN where it is available for inspection upon request. Should you require additional information or further clarification, please contact me or Mr. Michael Bollenbacher at (865) 675-3669.

Sincerely,

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Sample ID	Uranium-234 (pCi/g)	Uranium-235 (pCi/g)	Uranium-238 (pCi/g)	Thorium-230 (pCi/g)	Thorium-232 (pCi/g	Actinium-227 (pCi/g)
Analytical Method	EML U-02 Modified	EML U-02 Modified	EML U-02 Modified	EML Th-01 Modified	EML Th-01 Modified	EML Th-01 Modified
FEEBRIS01-2.008-009	0.47 ± 0.16 {-}	< 0.001 (0.04 ± 0.06) {U}	0.43 ± 0.15 {-}	0.68 ± 0.25 {-}	0.38 ± 0.17 {-}	0.13 ± 0.09 {-}
FEEBRIS01-2.018-019	0.40 ± 0.14 {-}	< 0.01 (0.05 ± 0.06) {U}	0.41 ± 0.14 {-}	0.62 ± 0.22 {-}	0.34 ± 0.15 {-}	0.12 ± 0.09 {-}
FEEBRIS01-2.020-021	0.46 ± 0.16 {-}	< 0.01 (0.01 ± 0.03) {U}	0.40 ± 0.15 {-}	0.84 ± 0.27 {-}	0.57 ± 0.20 {-}	0.07 ± 0.06 {-}
FEEBRIS01-2.022-023	0.15 ± 0.08 {-}	< 0.01 (0.00 ± 0.03) {U}	< 0.02 (0.06 ± 0.06) {U}	0.13 ± 0.08 {-}	< 0.06 (0.06 ± 0.06) {U}	0.06 ± 0.05 {-}
FEEBRIS01-2.023-024	0.44 ± 0.17 {-}	(0.10 ± 0.09) {-}	0.36 ± 0.16 {-}	0.94 ± 0.30 {-}	0.56 ± 0.21 {-}	< 0.01 (0.07 ± 0.07) {U}
FEEBRIS01-2.033-034	0.50 ± 0.15 {-}	< 0.003 (0.02 ± 0.03) {U}	0.30 ± 0.11 {-}	0.28 ± 0.12 {-}	<0.06 (0.11 ± 0.07) {U}	0.08 ± 0.06 {-}
FEEBRIS01-2.038-039	0.31 ± 0.13 {-}	0.07 ± 0.06 {-}	0.26 ± 0.11 {-}	0.28 ± 0.13 {-}	0.29 ± 0.13 {-}	<0.01 (0.07 ± 0.06) {U}
FEEBRIS01-2.038-039D	0.30 ± 0.12 {-}	0.16 ± 0.10 {-}	0.32 ± 0.13 {-}	0.40 ± 0.16 {-}	< 0.07 (0.13 ± 0.08 {U}	< 0.01 (0.05 ± 0.06) {U}
FEEBRIS01-2.040-041	0.17 ± 0.09 {-}	< 0.005 (0.07 ± 0.06) {U}	0.20 ± 0.10 {-}	< 0.02 (0.06 ± 0.06) {U}	< 0.07 (0.05 ± 0.05) {U}	< 0.02 (0.07 ± 0.07) {U}
FEEBRIS02-2.019-020	0.36 ± 0.12 {-}	< 0.002 (0.01 ± 0.02) {U}	0.31 ± 0.11 {-}	0.16 ± 0.08 {-}	< 0.07 (0.13 ± 0.08) {U}	< 0.01 (0.03 ± 0.04) {U}
FEEBRIS02-2.020-021	0.32 ± 0.13 {-}	0.07 ± 0.07 {-}	0.34 ± 0.13 {-}	0.66 ± 0.22 {-}	0.46 ± 0.17 {-}	0.09 ± 0.07 {-}
FEEBRIS02-2.022-023	0.39 ± 0.13 {-}	< 0.01 (0.06 ± 0.05) {U}	0.41 ± 0.13 {-}	0.69 ± 0.23 {-}	0.68 ± 0.22 {-}	0.11 ± 0.08 {-}
FEEBRIS02-2.022-023D	0.46 ± 0.16 {-}	< 0.01 (0.05 ± 0.06) {U}	0.43 ± 0.15 {-}	0.57 ± 0.19 {-}	0.44 ± 0.16 {-}	0.09 ± 0.07 {-}
FEEBRIS05-3.025-026	0.46 ± 0.14 {-}	0.10 ± 0.07 {-}	0.40 ± 0.13 {-}	4.63 ± 1.01 {-}	0.43 ± 0.15 {-}	< 0.01 (0.00 ± 0.02) {U}
FEEBRIS05-3.025-026D	0.65 ± 0.17 {-}	< 0.01 (0.06 ± 0.06) {U}	0.71 ± 0.18 {-}	88.92 ± 18.01 {-}	0.82 ± 0.25 {-}	0.68 ± 0.23 {-}
FEEBRIS08-1.044-045	0.57 ± 0.17 {-}	0.09 ± 0.07 {-}	0.47 ± 0.15 {-}	77.76 ± 16.93 {-}	0.48 ± 0.19 {-}	0.69 ± 0.25 {Q}
FEEBRISWL-119.001-002	0.61 ± 0.20 {-}	< 0.004 (0.01 ± 0.04) {U}	0.86 ± 0.25 {-}	0.45 ± 0.19 {-}	0.30 ± 0.14 {-}	< 0.002 (0.02 ± 0.04) {U}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Sample ID	Protactinium-231 (pCi/g)	Radium-228 (pCi/g)	Radium-226 (pCi/g)	Lead-210 (pCi/g)	Potassium-40 (pCi/g)
Analytical Method	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified
FEEBRIS01-2.008-009	< 1.11 (-4.33 ± 2.33) {UQJ}	1.31 ± 0.22 {J}	1.38 ± 0.20 {-}	< 1.23 (1.28 ± 1.50) {UQJ}	20.92 ± 2.82 {-}
FEEBRIS01-2.018-019	< 1.45 (0.16 ± 0.94) {UQJ}	1.34 ± 0.25 {-}	1.32 ± 0.20 {-}	< 1.00 (1.18 ± 1.24) {UQJ}	19.37 ± 2.82 {-}
FEEBRIS01-2.020-021	< 1.33 (0.59 ± 1.84) {UQJ}	1.05 ± 0.25 {-}	1.22 ± 0.22 {-}	< 0.98 (1.78 ± 1.20) {UQJ}	15.31 ± 2.29 {-}
FEEBRIS01-2.022-023	< 2.85 (-0.22 ± 3.70) {UQJ}	< 0.40 (0.44 ± 0.41) {UJ}	< 0.27 (0.23 ± 0.33) {UJ}	< 2.35 (4.28 ± 3.30) {UQJ}	4.26 ± 1.88 {-}
FEEBRIS01-2.023-024	< 2.61 (3.35 ± 3.71) {UQJ}	1.21 ± 0.43 {J}	1.35 ± 0.32 {-}	< 1.26 (1.51 ± 1.55) {UQJ}	15.34 ± 2.93 {J}
FEEBRIS01-2.033-034	< 0.79 (-1.14 ± 1.43) {UQJ}	< 0.16 (0.26 ± 0.19) {U}	0.62 ± 0.13 {-}	< 0.55 (1.09 ± 0.70) {UJ}	8.39 ± 1.34 {-}
FEEBRIS01-2.038-039	< 1.40 (2.48 ± 1.83) {UQJ}	0.95 ± 0.32 {J}	1.02 ± 0.19 {-}	< 0.94 (1.46 ± 1.15) {UQJ}	19.76 ± 2.84 {-}
FEEBRIS01-2.038-039D	< 2.26 (1.81 ± 3.29) {UQJ}	1.20 ± 0.42 {J}	1.05 ± 0.25 {-}	< 0.95 (1.64 ± 1.26) {UQJ}	19.21 ± 3.11 {-}
FEEBRIS01-2.040-041	< 0.71 (0.32 ± 0.88) {UQJ}	0.44 ± 0.17 {-}	0.39 ± 0.10 {-}	< 0.52 (0.78 ± 0.77) {UJ}	18.02 ± 2.26 {J}
FEEBRIS02-2.019-020	< 1.11 (-2.47 ± 2.15) {UQJ}	0.84 ± 0.27 {-}	0.96 ± 0.20 {-}	3.41 ± 1.67 {QJ}	12.91 ± 2.05 {-}
FEEBRIS02-2.020-021	< 1.98 (0.08 ± 2.83) {UQJ}	< 0.36 (0.66 ± 0.41) {UJ}	< 0.17 (0.32 ± 0.18) {U}	< 1.71 (2.31 ± 2.05) {UQJ}	4.43 ± 1.59 {-}
FEEBRIS02-2.022-023	< 2.54 (-3.82 ± 4.36) {UQJ}	1.54 ± 0.44 {J}	1.31 ± 0.37 {J}	< 1.22 (1.69 ± 1.67) {UQJ}	18.86 ± 3.46 {J}
FEEBRIS02-2.022-023D	< 1.27 (-0.15 ± 1.66) {UQJ}	1.33 ± 0.27 {J}	1.51 ± 0.24 {-}	< 1.45 (2.69 ± 1.80) {UQJ}	23.40 ± 3.11 {J}
FEEBRIS05-3.025-026	< 1.12 (-2.33 ± 2.18) {UQJ}	1.13 ± 0.20 {-}	1.28 ± 0.21 {-}	2.31 ± 0.94 {QJ}	16.11 ± 2.28 {-}
FEEBRIS05-3.025-026D	< 2.43 (0.39 ± 1.23) {UQJ}	1.09 ± 0.35 {J}	5.32 ± 0.56 {-}	< 2.12 (4.78 ± 2.66) {UQJ}	10.64 ± 2.17 {J}
FEEBRIS08-1.044-045	< 2.28 (1.62 ± 3.38) {UQJ}	1.43 ± 0.44 {J}	1.29 ± 0.28 {-}	< 1.50 (2.91 ± 1.87) {UQJ}	18.61 ± 3.10 {-}
FEEBRISWL-119.001-002	< 0.89 (0.64 ± 1.10) {UQJ}	0.77 ± 0.15 {-}	1.19 ± 0.18 {-}	< 0.68 (0.98 ± 0.85) {UJ}	9.36 ± 1.38 {-}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty/Relative Standard Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Auxier & Associates, Inc.
Radiological Health, Safety and Environmental Services
A USA Environment, L.P. Company

FROM: Cecilia Greene

TO: Mr. Dan Feezor, Feezor Engineering

CC: Mr. Paul Rosasco

DATE: 06/06/2014

RE: Transmittal of Validated Results for Eberline Work Order 14-04119

Eberline Services of Oak Ridge, TN has completed their analysis of the Phase 1 subsurface soil samples in Eberline Work Order 14-04119. The validated results are summarized in Table 1.

The laboratory quality control samples were validated using MARLAP criteria. All laboratory control samples fell within acceptable control limits.

A complete verification of all of the laboratory calculations was performed. 97% of the calculated results were within ± 10% of the laboratory results. We were unable to reproduce the results of 3 lead-210 results with the information supplied by the laboratory. This is probably due to complex spectral de-convoluting operations performed by the spectroscopy software.

A non-detect result (U qualifiers) is determined by considering the analytical result and its uncertainty vs. the critical value as supplied by the laboratory.

The low abundance of the gamma lines used to identify and quantify protactinium-231 and lead-210 resulted in numerous J and Q (Combined Standard Uncertainty > Required Method Uncertainty) qualifiers. This condition increased the counting and combined standard uncertainty, and the minimum detectable activity. This condition does not constitute a non-conformance to the measurement quality objectives.

The full laboratory Level IV report of analysis will be retained at Auxier & Associates offices in Knoxville, TN where it is available for inspection upon request. Should you require additional information or further clarification, please contact me or Mr. Michael Bollenbacher at (865) 675-3669.

Sincerely,

Cecilia H. Greene, MPH, NRRPT
Auxier & Associates, Inc.
9821 Cogdill Road, Suite 1
Knoxville, TN 37932

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Sample ID	Uranium-234 (pCi/g)	Uranium-235 (pCi/g)	Uranium-238 (pCi/g)	Thorium-230 (pCi/g)	Thorium-232 (pCi/g	Actinium-227 (pCi/g)
Analytical Method	EML U-02 Modified	EML U-02 Modified	EML U-02 Modified	EML Th-01 Modified	EML Th-01 Modified	EML Th-01 Modified
FEEBRISWL-119.009-010	0.76 ± 0.21 {-}	< 0.001 (0.03 ± 0.05) {U}	0.81 ± 0.22 {-}	0.55 ± 0.20 {-}	0.40 ± 0.16 {-}	0.08 ± 0.07 {-}
FEEBRISWL-119.009-010D	0.58 ± 0.17 {-}	< 0.003 (0.01 ± 0.03) {U}	0.48 ± 0.16 {-}	0.58 ± 0.19 {-}	0.52 ± 0.17 {-}	0.09 ± 0.06 {-}
FEEBRISWL-119.020-021	0.31 ± 0.12 {-}	< 0.001 (0.03 ± 0.05) {U}	0.47 ± 0.15 {-}	0.49 ± 0.18 {-}	0.42 ± 0.16 {-}	< 0.01 (0.07 ± 0.06) {U}
FEEBRISWL-119.040-041	0.22 ± 0.11 {-}	0.09 ± 0.08 {-}	0.12 ± 0.08 {-}	0.31 ± 0.15 {-}	< 0.09 (0.13 ± 0.09) {U}	< 0.01 (0.05 ± 0.06) {U}
FEEBRISWL-119.041-042	0.42 ± 0.15 {-}	0.11 ± 0.08 {-}	0.48 ± 0.15 {-}	0.63 ± 0.22 {-}	0.57 ± 0.20 {-}	< 0.001 (0.05 ± 0.06) {U}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Sample ID	Protactinium-231 (pCi/g)	Radium-228 (pCi/g)	Radium-226 (pCi/g)	Lead-210 (pCi/g)	Potassium-40 (pCi/g)
Analytical Method	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified	LANL 130 Modified
FEEBRISWL-119.009-010	< 1.12 (-0.62 ± 1.52) {UQJ}	1.26 ± 0.28 {J}	1.31 ± 0.21 {-}	< 0.75 (1.44 ± 0.95) {UQJ}	19.55 ± 2.51 {-}
FEEBRISWL-119.009-010D	< 1.25 (0.55 ± 0.97) {UQJ}	1.32 ± 0.24 {-}	1.41 ± 0.21 {-}	< 1.06 (1.22 ± 1.30) {UQJ}	18.66 ± 2.56 {-}
FEEBRISWL-119.020-021	< 1.37 (1.21 ± 1.87) {UQJ}	1.11 ± 0.24 {-}	1.08 ± 0.19 {-}	< 0.95 (1.29 ± 1.16) {UQJ}	16.52 ± 2.50 {-}
FEEBRISWL-119.040-041	< 1.13 (0.27 ± 1.19) {UQJ}	0.88 ± 0.22 {-}	0.51 ± 0.17 {-}	2.18 ± 1.01 {QJ}	4.08 ± 1.03 {-}
FEEBRISWL-119.041-042	< 1.55 (-0.29 ± 1.04) {UQJ}	1.24 ± 0.26 {J}	1.39 ± 0.23 {-}	< 1.42 (2.80 ± 1.79) {UQJ}	23.61 ± 3.34 {-}

U - Result is less than the Critical Value
Q – Measurement Combined Standard Uncertainty > Required Method Uncertainty/Relative Standard Uncertainty
J – Minimum Detectable Concentration > Required Detection Limit, or could not recalculate result
- Validated, no qualifiers assigned

Appendix G-5:

EMSI Phase 1D Data Validation Reports

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: The sample was analyzed "as is" immediately and also after a 21 day ingrowth. Both results were reported. All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils.	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** **-Actinium-228** quick (0.0484 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required 21-day ingrowth (0.0204 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Bismuth-214,** quick (0.0145 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required 21-day ingrowth (0.0463 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Lead-212 quick (0.0192 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required 21-day ingrowth (0.00798 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Potassium-40** 21-day ingrowth (0.189 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Lead-214** quick (0.0356 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required 21-day ingrowth (0.0394 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Ra-226 quick (0.0145 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required 21-day ingrowth (0.0463 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-228** quick (0.0484 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required 21-day ingrowth (0.0204 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Th-234** quick (0.273 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required 21-day ingrowth (0.339 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Thallium-208 quick (-0.0138 pCi/g) - negative Blank Conc is <3 X blank uncertainty - no qualifications required 21-day ingrowth (0.00695 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pa-231** 21-day ingrowth (-0.0800 pCi/g) - Negative Blank Conc is <3X blank uncertainty - no qualifications required	
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. Actinium-228 quick: FEEBRIS1D-09-088-089 0.956 pCi/g FEEBRIS1D-09-088-089 DUP 0.225 pCi/g Range = 0.731 is <2XLLD - results are in control 21 day ingrowth: FEEBRIS1D-09-088-089 0.814 pCi/g FEEBRIS1D-09-088-089 DUP 0.873 pCi/g Range = 0.059 is <2XLLD - results are in control Bismuth-214 quick: FEEBRIS1D-09-088-089 16.7 pCi/g FEEBRIS1D-09-088-089 DUP 18.4 pCi/g RPD=10% results are in control 21 day ingrowth: FEEBRIS1D-09-088-089 15.8 pCi/g FEEBRIS1D-09-088-089 DUP 15.6 pCi/g RPD=1% results are in control	**Th-234 (quick)** FEEBRIS1D-09-088-089 P FEEBRIS1D-09-088-089 DUP P **K-40 (21 day)** FEEBRIS1D-09-088-089 P FEEBRIS1D-09-088-089 DUP P **Pb-212 (21 day)** FEEBRIS1D-09-088-089 P FEEBRIS1D-09-088-089 DUP P

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		K-40 21 day ingrowth: FEEBRIS1D-09-088-089 6.90 pCi/g FEEBRIS1D-09-088-089 DUP 5.29 pCi/g RPD = 26% - qualify results as P Lead-212 quick: FEEBRIS1D-09-088-089 0.511 pCi/g FEEBRIS1D-09-088-089 DUP 0.639 pCi/g Range = 0.128 is <2XLLD - results are in control 21 day ingrowth: FEEBRIS1D-09-088-089 -7.90 pCi/g FEEBRIS1D-09-088-089 DUP 0.509 pCi/g Range = 8.409 - qualify results as P Lead-214 quick: FEEBRIS1D-09-088-089 22.1 pCi/g FEEBRIS1D-09-088-089 DUP 22.2 pCi/g RPD=0.5% results are in control 21 day ingrowth: FEEBRIS1D-09-088-089 21.8 pCi/g FEEBRIS1D-09-088-089 DUP 22.3 pCi/g RPD=2% results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Ra-226 quick: FEEBRIS1D-09-088-089 16.7 pCi/g FEEBRIS1D-09-088-089 DUP 18.4 pCi/g RPD=10% results are in control 21 day ingrowth: FEEBRIS1D-09-088-089 15.8 pCi/g FEEBRIS1D-09-088-089 DUP 15.6 pCi/g RPD=1% results are in control Ra-228 quick: FEEBRIS1D-09-088-089 0.956 pCi/g FEEBRIS1D-09-088-089 DUP 0.225 pCi/g Range = 0.731 is <2XLLD - results are in control 21 day ingrowth: FEEBRIS1D-09-088-089 0.814 pCi/g FEEBRIS1D-09-088-089 DUP 0.873 pCi/g Range = 0.059 is <2XLLD - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Th-234 quick: FEEBRIS1D-09-088-089 1.61 pCi/g FEEBRIS1D-09-088-089 DUP 12.9 pCi/g Range =11.2 - qualify results as P 21 day ingrowth: FEEBRIS1D-09-088-089 4.68 pCi/g FEEBRIS1D-09-088-089 DUP 1.95 pCi/g Range =2.73 is <2XLLD - results are in control Thallium-208 quick: FEEBRIS1D-09-088-089 0.261 pCi/g FEEBRIS1D-09-088-089 DUP 0.423 pCi/g Range = 0.162 is <2XLLD - results are in control 21 day ingrowth: FEEBRIS1D-09-088-089 0.538 pCi/g FEEBRIS1D-09-088-089 DUP 0.558 pCi/g Range = 0.020 is <2XLLD - results are in control Pa-231 21 day ingrowth: FEEBRIS1D-09-088-089 -4.84 pCi/g FEEBRIS1D-09-088-089 DUP -7.37 pCi/g Both results <LLD - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**FEEBRIS1D-09-088-089** Ra-228 (quick) U Tl-208 (quick) U Th-234 (quick) U Pb-212 (21 day) U Th-234 (21 day) U Pa-231 (21 day) U
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**FEEBRIS1D-09-088-089** Pb-212 (quick) Q Ra-228 (quick) Q Ac-228 (quick) Q Tl-208 (21 day) Q Ra-228 (21 day) Q Ac-228 (21 day) Q Th-234 (21 day) Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Not applicable	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Gamma Scan (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-2
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Radium-226 (903.0)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Radium-226 (903.0)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. Yes **Method blank** Radium-226 (0.0860 pCi/g) - Blank Conc is <1.65 X blank uncertainty - no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. FEEBRIS1D-09-088-089 40.2 pCi/g FEEBRIS1D-09-088-089 DUP 38.7 pCi/g RPD = 3.8% - results are in control	None
Non-Detects	Is the LLD > the sample concentration.	No	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Radium-226 (903.0)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	Yes	None
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%).	Chemical recovery: FEEBRIS1D-09-088-089 120%	FEEBRIS1D-09-088-089 Ra-226 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Radium-228 (904.0)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Radium-228 (904.0)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No **Method blank** - Radium-228 (0.746 pCi/g) - Blank Conc is <1.65 X blank uncertainty - no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. FEEBRIS1D-09-088-089 3.58 pCi/g FEEBRIS1D-09-088-089 DUP 2.29 pCi/g RPD = 44% - qualify results as P	**Ra-228** FEEBRIS1D-09-088-089 P FEEBRIS1D-09-088-089 DUP P
Non-Detects	Is the LLD > the sample concentration.	No	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Radium-228 (904.0)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**Ra-228** FEEBRIS1D-09-088-089 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Gravimetric recoveries were within control limits (75-110%). Chemical recoveries were within control limits (75-110%).	Chemical recovery: FEEBRIS1D-09-088-089 120%	**Ra-228** FEEBRIS1D-09-088-089 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228 (not required),Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: Due to positive Th-230 activity in this sample, the alpha spectroscopy results demonstrated a slightly high method detection limit. Thorium appears to be dis-equilibrated with parent and progeny radionuclides. Sample may be a raffinate or other chemical altered material. All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable for soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228 (not required),Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No **Method blank** - Thorium-228 (0.0817 pCi/g) - Blank Conc is <1.65 X blank uncertainty- no qualification required - Thorium-230 (0.0689 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - Thorium-232 (0.0297 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - Actinium-227 (0.0496 pC/g) - -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes (no LCS for Th-227)	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228 (not required),Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. Th-228 FEEBRIS1D-09-088-089 0.110 pCi/g FEEBRIS1D-09-088-089 DUP 0.356 pCi/g Range = 0.246 - results are in control Th-230 FEEBRIS1D-09-088-089 906 pCi/g FEEBRIS1D-09-088-089 DUP 900 pCi/g RPD = 0.7% - results are in control Th-232 FEEBRIS1D-09-088-089 3.76 pCi/g FEEBRIS1D-09-088-089 DUP 2.75 pCi/g RPD = 31% - qualify sample as P Ac-227 FEEBRIS1D-09-088-089 7.24 pCi/g FEEBRIS1D-09-088-089 DUP 6.16 pCi/g RPD = 16% - results are in control	**Th-232** FEEBRIS1D-09-088-089 P FEEBRIS1D-09-088-089 DUP P
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Th-228** FEEBRIS1D-09-088-089 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228 (not required),Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Th-228** FEEBRIS1D-09-088-089 DUP Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	Rec = 118% DUP = 117%	**Th-232, Th-228, Th-230, Th-227/Ac-227** FEEBRIS1D-09-088-089 J FEEBRIS1D-09-088-089 DUP J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Uranium-234 (0.164 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-235 (0.111 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-238 (0.00 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. U-234 FEEBRIS1D-09-088-089 3.41 pCi/g FEEBRIS1D-09-088-089 DUP 3.22 pCi/g range = 0.21 is <2XLLD - results are in control U-235 FEEBRIS1D-09-088-089 0.619 pCi/g FEEBRIS1D-09-088-089 DUP 0.116 pCi/g RPD = 137% - qualify results as P U-238 FEEBRIS1D-09-088-089 TOT 3.23 pCi/g FEEBRIS1D-09-088-089 DUP 2.84 pCi/g range = 0.39 is <2XLLD - results are in control	**U-235** FEEBRIS1D-09-088-089 P FEEBRIS1D-09-088-089 DUP P
Non-Detects	Is the LLD > the sample concentration.	No	None
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**U-235** FEEBRIS1D-09-088-089 Q

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06043
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-09-088-089
SAMPLE DATE: 6/11/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Yes	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Gross α&β (LANL MLR-100 Modified)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE(S): 6/3,4,5,6,8,9,10,11,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to air filters	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in uCi/ml? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. Yes **Method blank** gross α (-9.84E-15 uCi/ml) - Blank Conc is <3X blank uncertainty - no qualification required gross β (1.66E-14 uCi/ml) - Blank Conc is <1.65 X blank uncertainty - no qualification required	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Gross α&β (LANL MLR-100 Modified)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE(S): 6/3,4,5,6,8,9,10,11,12/2015

Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in uCi/ml? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1.Yes 2. Yes 3. Yes gross α: 060315-13A 1.42E-14 uCi/ml 060315-13A dup 3.37E-14 uCi/ml both results <LLD - results are in control gross β 060315-13A 4.56E-13 uCi/ml 060315-13A Dup 4.58E-13 uCi/ml range = 0.02E-13 is <2XLLD - results are in control	None
Non-Detects	Is the LLD > the sample concentration.	See qualifications	**Gross α** 060315-13A U 060515-13B U 060415-13C U 060615-14 U 060815-9A U 060915-9B U 061015-17 U 061015-1 U 061115-2 U 061215-18 U
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	Yes	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Gross α&β (LANL MLR-100 Modified)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE(S): 6/3,4,5,6,8,9,10,11,12/2015

Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicates were collected with this SDG	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE: 6/3,4,5,6,8,9,10,11,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to air filters	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in uCi/ml? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE: 6/3,4,5,6,8,9,10,11,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Thorium-228 (6.75E-15 uCi/ml) - Blank Conc is <1.65 X blank uncertainty- no qualification required - Thorium-230 (2.00E-14 uCi/ml) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - Thorium-232 (1.90E-15 uCi/ml) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE: 6/3,4,5,6,8,9,10,11,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in uCi/ml? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Th-228** 060315-13A 1.43E-14 uCi/ml 060315-13A DUP 3.23E-14 uCi/ml Range = 1.8E-14 is <2XLLD - results are in control **Th-230** 060315-13A 1.31E-13 uCi/ml 060315-13A DUP 9.43E-14 uCi/ml Range = 3.67E-14 is <2XLLD - results are in control **Th-232** 060315-13A 2.46E-14 uCi/ml 060315-13A DUP -7.42E-17 uCi/ml Range = 2.47E-14 is >2XLLD - qualify results of parent sample only as P	**Th-232** 060315-13A P
Non-Detects	Is the LLD > the sample concentration.	No	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE: 6/3,4,5,6,8,9,10,11,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Th-228** 060315-13A Q 060515-13B Q 060415-13C Q 060615-14 Q 060815-9A Q 060915-9B Q 061015-17 Q 061015-1 Q 061115-2 Q 061215-18 Q **Th-230** 060515-13B Q 060415-13C Q 060815-9A Q 060915-9B Q 061015-17 Q 061015-1 Q 061115-2 Q

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE: 6/3,4,5,6,8,9,10,11,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
			Th-232 060315-13A Q 060515-13B Q 060415-13C Q 060615-14 Q 060815-9A Q 060915-9B Q 061015-17 Q 061015-1 Q 061115-2 Q 061215-18 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	060515-13B 42.5% 060815-9A 66.7% 061115-2 72.6% 061215-18 60.6%	**Th-228, Th-230, Th-232** 060515-13B J 060815-9A J 061115-2 J 061215-18 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-06102
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 060315-13A, 060515-13B, 060415-13C, 060615-14, 060815-9A, 060915-9B, 061015-17, 061015-1, 061115-2, 061215-18
SAMPLE DATE: 6/3,4,5,6,8,9,10,11,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: The sample was analyzed after a 21 day ingrowth. All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils.	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/L? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** **-Ac-228** (0.0548 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Bi-214,** (0.0156 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **K-40** (0.191 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pa-231** (-0.0519 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required Pb-**210** (0.468 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	**all samples** Th-234 B+

		Pb-212 (0.0297 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pb-214** (0.00613 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-226** (0.0156 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-228** (0.00548 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Th-234** (0.921 pCi/g) - Positive Blank Conc is >1.65 X blank uncertainty - qualify associated samples as B+ **Thallium-208** 0.0292 pCi/g) Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Ac-228** FEEBRIS1D-09-099-100 0.425 pCi/g FEEBRIS1D-09-099-100 DUP 0.476 pCi/g Range = 0.051 is <2XLLD - results are in control **Bi-214** FEEBRIS1D-09-099-100 0.663 pCi/g FEEBRIS1D-09-099-100 DUP 0.478 pCi/g RPD=32% - qualify results as P **K-40** FEEBRIS1D-09-099-100 15.4 pCi/g FEEBRIS1D-09-099-100 DUP 14.8 pCi/g RPD = 4% - results are in control **Pa-231** FEEBRIS1D-09-099-100 0.424 pCi/g FEEBRIS1D-09-099-100 DUP -0.362 pCi/g Both results <LLD - results are in control **Pb-210** FEEBRIS1D-09-099-100 0.958 pCi/g FEEBRIS1D-09-099-100 DUP 1.29 pCi/g Range = 0.332 is <2XLLD - results are in control **Pb-212** FEEBRIS1D-09-099-100 0.443 pCi/g FEEBRIS1D-09-099-100 DUP 0.406 pCi/g RPD=9% results are in control **Pb-214** FEEBRIS1D-09-099-100 0.723 pCi/g FEEBRIS1D-09-099-100 DUP 0.635 pCi/g RPD=13% results are in control	**FEEBRIS1D-09-099-100** Bi-214 P **FEEBRIS1D-09-099-100 DUP** Bi-214 P

		Ra-226 FEEBRIS1D-09-099-100 0.663 pCi/g FEEBRIS1D-09-099-100 DUP 0.478 pCi/g Range = 0.185 is <2XLLD - results are in control **Ra-228** FEEBRIS1D-09-099-100 0.425 pCi/g FEEBRIS1D-09-099-100 DUP 0.476 pCi/g Range = 0.051 is <2XLLD - results are in control **Th-234** FEEBRIS1D-09-099-100 1.02 pCi/g FEEBRIS1D-09-099-100 DUP 1.27 pCi/g Range =0.25 is <2XLLD - results are in control **Tl-208** FEEBRIS1D-09-099-100 0.325 pCi/g FEEBRIS1D-09-099-100 DUP 0.372 pCi/g Range = 0.047 is <2XLLD - results are in control	

Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Ac-228** FEEBRIS1D-09.078-079 U FEEBRIS1D-14.054-056 U FEEBRIS1D-18.038-041 U **Pb-210** FEEBRIS1D-02.036-037 U FEEBRIS1D-13.085-086 U FEEBRIS1D-14.082-084 U FEEBRIS1D-18.013-014 U **Pb-212** FEEBRIS1D-18.038-041 U **Pb-214** FEEBRIS1D-09.078-079 U **Pa-231** FEEBRIS1D-01.024-027 U FEEBRIS1D-02.020-023 U FEEBRIS1D-02.027-030 U FEEBRIS1D-02.036-037 U FEEBRIS1D-09.078-079 U FEEBRIS1D-09.099-100 DUP U FEEBRIS1D-09.099-100 U

			FEEBRIS1D-13.085-086 U FEEBRIS1D-13.093-094 U FEEBRIS1D-14.054-056 U FEEBRIS1D-14.082-084 U FEEBRIS1D-17.030-031 U FEEBRIS1D-17.033-036 U FEEBRIS1D-18.013-014 U FEEBRIS1D-18.038-041 U FEEBRIS1D-18.044-046 U **Ra-226** FEEBRIS1D-01.007-009 U FEEBRIS1D-01.024-027 U FEEBRIS1D-02.027-030 U FEEBRIS1D-02.036-037 U FEEBRIS1D-09.078-079 U FEEBRIS1D-09.099-100 DUP U FEEBRIS1D-13.085-086 U FEEBRIS1D-14.054-056 U FEEBRIS1D-14.082-084 U FEEBRIS1D-17.030-031 U FEEBRIS1D-17.033-036 U FEEBRIS1D-18.013-014 U FEEBRIS1D-18.038-041 U **Ra-228** FEEBRIS1D-09.078-079 U FEEBRIS1D-14.054-056 U FEEBRIS1D-18.038-041 U **Tl-208** FEEBRIS1D-01.024-027 U FEEBRIS1D-09.078-079 U FEEBRIS1D-18.038-041 U **Th-232** FEEBRIS1D-02.020-023 U

Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**Ac-228** FEEBRIS1D-01.024-027 Q FEEBRIS1D-02.036-037 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q FEEBRIS1D-18.013-014 Q Bi-214 FEEBRIS1D-09.078-079 Q FEEBRIS1D-14.054-056 Q FEEBRIS1D-17.030-031 Q **Pb-210** FEEBRIS1D-01.007-009 Q FEEBRIS1D-01.024-027 Q FEEBRIS1D-02.020-023 Q FEEBRIS1D-02.027-030 Q FEEBRIS1D-09.078-079 Q FEEBRIS1D-09.099-100 Q FEEBRIS1D-09.099-100 Q FEEBRIS1D-13.093-094 Q FEEBRIS1D-14.054-056 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q FEEBRIS1D-18.038-041 Q FEEBRIS1D-18.044-046 Q

			Pb-212 FEEBRIS1D-01.024-027 Q FEEBRIS1D-09.078-079 Q FEEBRIS1D-14.054-056 Q **Pb-214** FEEBRIS1D-14.054-056 Q **K-40** FEEBRIS1D-09.078-079 Q FEEBRIS1D-14.054-056 Q FEEBRIS1D-18.038-041 Q **Pa-231** FEEBRIS1D-01.007-009 Q **Ra-228** FEEBRIS1D-01.024-027 Q FEEBRIS1D-02.036-037 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q FEEBRIS1D-18.013-014 Q

			Tl-208 FEEBRIS1D-09.088-089 Q FEEBRIS1D-14.054-056 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q **Th-234** FEEBRIS1D-01.007-009 Q FEEBRIS1D-01.024-027 Q FEEBRIS1D-02.027-030 Q FEEBRIS1D-02.036-037 Q FEEBRIS1D-09.078-079 Q FEEBRIS1D-09.088-089 Q FEEBRIS1D-09.099-100 Q FEEBRIS1D-09.099-100 DUP Q FEEBRIS1D-13.085-086 Q FEEBRIS1D-13.093-094 Q FEEBRIS1D-14.054-056 Q FEEBRIS1D-14.082-084 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q FEEBRIS1D-18.013-014 Q FEEBRIS1D-18.038-041 Q FEEBRIS1D-18.044-046 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Not applicable	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable for soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No **Method blank** - Thorium-230 (0.0562 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - Thorium-232 (0.0540 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - Actinium-227 (0.0436 pC/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. No Th-230 121% (no LCS for Th-227)	**Th-230** All samples J+

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Th-230** FEEBRIS1D-09-099-100 2.84 pCi/g FEEBRIS1D-09-099-100 DUP 3.41 pCi/g RPD =18% - results are in control **Th-232** FEEBRIS1D-09-099-100 0.163 pCi/g FEEBRIS1D-09-099-100 DUP 0.192 pCi/g RPD = 16% - results are in control **Ac-227** FEEBRIS1D-09-099-100 0.0381 pCi/g FEEBRIS1D-09-099-100 DUP -0.0120 pCi/g Range = 0.0501 - qualify parent sample as P	**Ac-227** FEEBRIS1D-09-099-100 P FEEBRIS1D-09-099-100 DUP P

PROJECT NAME/NO.	West Lake Landfill Phase 1D Soils		
LABORATORY:	Eberline Services		
PROJECT ID:	15-06114		
MEDIA:	Soil		
FRACTION:	Radionuclides - Thorium (EML-Th-01)	Th-230, Th-232, Th-227 (Used to calculate Actinium-227)	
SAMPLE NUMBERS:	FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
	FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
	FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
	FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
	FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
	FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	
SAMPLE DATE:	6/11, 12, 17, 22/2015		

CRITERIA	**Project Criteria**	**Comments/Qualifying Actions**	**Qualifiers Added?**
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Ac-227** FEEBRIS1D-02.020-023 U FEEBRIS1D-09.078-079 U FEEBRIS1D-09.099-100 DUP U FEEBRIS1D-14.054-056 U FEEBRIS1D-17.030-031 U **Th-232** FEEBRIS1D-14.054-056 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Ac-227** FEEBRIS1D-01.007-009 Q FEEBRIS1D-01.024-027 Q FEEBRIS1D-02.027-030 Q FEEBRIS1D-02.036-037 Q FEEBRIS1D-09.099-100 Q FEEBRIS1D-13.085-086 Q FEEBRIS1D-13.093-094 Q FEEBRIS1D-14.082-084 Q FEEBRIS1D-17.033-036 Q FEEBRIS1D-18.013-014 Q FEEBRIS1D-18.038-041 Q FEEBRIS1D-18.044-046 Q **Th-230** FEEBRIS1D-14.054-056 Q

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
			Th-232 FEEBRIS1D-01.024-027 Q FEEBRIS1D-02.027-030 Q FEEBRIS1D-09.078-079 Q FEEBRIS1D-09.099-100 Q FEEBRIS1D-09.099-100 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q FEEBRIS1D-18.013-014 Q FEEBRIS1D-18.038-041 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	FEEBRIS1D-09.099-100 120% FEEBRIS1D-09.099-100 DUP 121% FEEBRIS1D-01.007-009 117% FEEBRIS1D-01.024-027 116% FEEBRIS1D-02.027-030 115% FEEBRIS1D-02.020-023 138% FEEBRIS1D-18.013-014 118% FEEBRIS1D-17.033-036 113% FEEBRIS1D-14.082-084 111% FEEBRIS1D-14.054-056 122% FEEBRIS1D-09.088-089 122%	**Th-232, Th-230, Ac-227** FEEBRIS1D-09.099-100 J FEEBRIS1D-09.099-100 DUP J FEEBRIS1D-01.007-009 J FEEBRIS1D-01.024-027 J FEEBRIS1D-02.027-030 J FEEBRIS1D-02.020-023 J FEEBRIS1D-18.013-014 J FEEBRIS1D-17.033-036 J FEEBRIS1D-14.082-084 J FEEBRIS1D-14.054-056 J FEEBRIS1D-09.088-089 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All samples labeled as FEEBRISID but should have been FEEBRIS1D. DVRs and the database changed to the correct label.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Uranium-234 (0.00859 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-235 (-0.0113 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required - Uranium-238 (0.0154 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. No U-234 78% - qualify associated samples as S-	**U-234** all samples S-

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **U-234** FEEBRIS1D-09-099-100 0.258 pCi/g FEEBRIS1D-09-099-100 DUP 0.276 pCi/g RPD = 7% - results are in control **U-235** FEEBRIS1D-09-099-100 0.0274 pCi/g FEEBRIS1D-09-099-100 DUP 0.127 pCi/g RPD = 129% - qualify results as P **U-238** FEEBRIS1D-09-099-100 TOT 0.275 pCi/g FEEBRIS1D-09-099-100 DUP 0.237 pCi/g RPD = 15% - results are in control	**U-235** FEEBRIS1D-09-099-100 P FEEBRIS1D-09-099-100 DUP P
Non-Detects	Is the LLD > the sample concentration.	see qualifications	**U-235** FEEBRIS1D-09.088-089 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**U-234** FEEBRIS1D-02.027-030 Q FEEBRIS1D-09.078-079 Q FEEBRIS1D-09.099-100 DUP Q FEEBRIS1D-13.085-086 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-18.038-041 Q FEEBRIS1D-18.044-046 Q **U-235** FEEBRIS1D-01.007-009 Q FEEBRIS1D-01.024-027 Q FEEBRIS1D-02.020-023 Q FEEBRIS1D-02.027-030 Q FEEBRIS1D-02.036-037 Q FEEBRIS1D-09.078-079 Q FEEBRIS1D-09.099-100 DUP Q FEEBRIS1D-09.099-100 Q FEEBRIS1D-13.085-086 Q FEEBRIS1D-13.093-094 Q FEEBRIS1D-14.054-056 Q FEEBRIS1D-14.082-084 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
			FEEBRIS1D-18.013-014 Q FEEBRIS1D-18.038-041 Q FEEBRIS1D-18.044-046 Q **U-238** FEEBRIS1D-09.078-079 Q FEEBRIS1D-09.099-100 DUP Q FEEBRIS1D-13.085-086 Q FEEBRIS1D-14.054-056 Q FEEBRIS1D-17.030-031 Q FEEBRIS1D-17.033-036 Q FEEBRIS1D-18.013-014 Q FEEBRIS1D-18.038-041 Q FEEBRIS1D-18.044-046 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06114
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

SAMPLE NUMBERS:

FEEBRIS1D-09.099-100	FEEBRIS1D-02.036-037	FEEBRIS1D-17.030-031
FEEBRIS1D-09.078-079	FEEBRIS1D-18.013-014	FEEBRIS1D-17.033-036
FEEBRIS1D-01.007-009	FEEBRIS1D-18.038-041	FEEBRIS1D-13.093-094
FEEBRIS1D-01.024-027	FEEBRIS1D-18.044-046	FEEBRIS1D-13-085-086
FEEBRIS1D-02.027-030	FEEBRIS1D-14.054-056	FEEBRIS1D-14.082-084
FEEBRIS1D-02.020-023	FEEBRIS1D-09.088-089	

SAMPLE DATE: 6/11, 12, 17, 22/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	FEEBRIS1D-02.036-037 133% FEEBRIS1D-18.044-046 119% FEEBRIS1D-13.093-094 118% FEEBRIS1D-14.082-084 66%	**U-234, U-235, U-238** FEEBRIS1D-02.036-037 J FEEBRIS1D-18.044-046 J FEEBRIS1D-13.093-094 J FEEBRIS1D-14.082-084 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: The sample was analyzed after a 21 day ingrowth.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils.	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/L? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** **-Ac-228** (0.0360 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Bi-214,** (0.0422 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **K-40** (0.254 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pa-231** (-0.0640 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required Pb-**210** (0.448 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	**FEEBRIS1D-13.093-094** **FEEBRIS1D-13.093-094 DUP** Th-234 B+

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-212 (0.0391 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pb-214** (-0.0308 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required **Ra-226** (0.0422 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-228** (0.0360 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Th-234** (0.875 pCi/g) - Positive Blank Conc is >1.65 X blank uncertainty - qualify associated samples as B+ **Thallium-208** 0.0131 pCi/g) Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Ac-228** FEEBRIS1D-13.093-094 0.463 pCi/g FEEBRIS1D-13.093-094 DUP 0.387 pCi/g Range = 0.076 is <2XLLD - results are in control **Bi-214** FEEBRIS1D-13.093-094 3.27 pCi/g FEEBRIS1D-13.093-094 DUP 3.29 pCi/g RPD=0.1% - results are in control **K-40** FEEBRIS1D-13.093-094 7.38 pCi/g FEEBRIS1D-13.093-094 DUP 6.64 pCi/g RPD = 11% - results are in control **Pa-231** FEEBRIS1D-13.093-094 0.714 pCi/g FEEBRIS1D-13.093-094 DUP 0.590 pCi/g Both results <LLD - results are in control	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-210 FEEBRIS1D-13.093-094 2.63 pCi/g FEEBRIS1D-13.093-094 DUP 2.13 pCi/g Range = 0.50 is <2XLLD - results are in control **Pb-212** FEEBRIS1D-13.093-094 0.572 pCi/g FEEBRIS1D-13.093-094 DUP 0.552 pCi/g Range = 0.020 is <2XLLD - results are in control **Pb-214** FEEBRIS1D-13.093-094 3.47 pCi/g FEEBRIS1D-13.093-094 DUP 3.52 pCi/g RPD=1% results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Ra-226 FEEBRIS1D-13.093-094 3.27 pCi/g FEEBRIS1D-13.093-094 DUP 3.29 pCi/g Range = 0.02 is <2XLLD - results are in control **Ra-228** FEEBRIS1D-13.093-094 0.463 pCi/g FEEBRIS1D-13.093-094 DUP 0.387 pCi/g Range = 0.076 is <2XLLD - results are in control **Th-234** FEEBRIS1D-13.093-094 2.49 pCi/g FEEBRIS1D-13.093-094 DUP 2.97 pCi/g Range =0.48 is <2XLLD - results are in control **Tl-208** FEEBRIS1D-13.093-094 0.399 pCi/g FEEBRIS1D-13.093-094 DUP 0.482 pCi/g Range = 0.083 is <2XLLD - results are in control	
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Pa-231** FEEBRIS1D-13.093-094 U FEEBRIS1D-13.093-094 DUP U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**Ac-228** FEEBRIS1D-13.093-094 DUP Q **Pb-210** FEEBRIS1D-13.093-094 Q FEEBRIS1D-13.093-094 DUP Q **Ra-228** FEEBRIS1D-13.093-094 DUP Q **Th-234** FEEBRIS1D-13.093-094 DUP Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Not applicable	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes The sample was reanalyzed because of high chemical recoveries. The reanalysis results were reported.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable for soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No **Method blank** - **Th-230** (0.0855 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - **Th-232** (-0.00747 pCi/g) -Negative Blank Conc is <3 X blank uncertainty- no qualification required - **Ac-227** (0.00991 pC/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. No Th-230 122% (no LCS for Th-227)	**Th-230** FEEBRIS1D-13.093-094 S+ FEEBRIS1D-13.093-094 DUP S+

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Th-230** FEEBRIS1D-13.093-094 2.90 pCi/g FEEBRIS1D-13.093-094 DUP 2.96 pCi/g RPD =2% - results are in control **Th-232** FEEBRIS1D-13.093-094 0.229 pCi/g FEEBRIS1D-13.093-094 DUP 0.261 pCi/g RPD = 13% - results are in control **Ac-227** FEEBRIS1D-13.093-094 0.0220 pCi/g FEEBRIS1D-13.093-094 DUP 0.170 pCi/g Range = 0.148 >2XLLD - qualify parent sample as P	**Ac-227** FEEBRIS1D-13.093-094 P FEEBRIS1D-13.093-094 DUP P
Non-Detects	Is the LLD > the sample concentration.	No.	None
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Ac-227** FEEBRIS1D-13.093-094 Q FEEBRIS1D-13.093-094 DUP Q **Th-232** FEEBRIS1D-13.093-094 Q FEEBRIS1D-13.093-094 DUP Q

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	FEEBRIS1D-13.093-094 Rec = 111%	**Th-232, Th-230, Ac-227** FEEBRIS1D-13.093-094 J FEEBRIS1D-13.093-094 DUP J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Uranium-234 (0.112 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-235 (0.00900 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-238 (0.00222 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. No U-234 78% - qualify associated samples as S-	**U-234** FEEBRIS1D-13.093-094 S- FEEBRIS1D-13.093-094 DUP S-

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **U-234** FEEBRIS1D-13.093-094 2.74 pCi/g FEEBRIS1D-13.093-094 DUP 2.65 pCi/g RPD = 3% - results are in control **U-235** FEEBRIS1D-13.093-094 0.164 pCi/g FEEBRIS1D-13.093-094 DUP 0.195 pCi/g RPD = 19% - results are in control **U-238** FEEBRIS1D-13.093-094 2.78 pCi/g FEEBRIS1D-13.093-094 DUP 2.72 pCi/g RPD = 2% - results are in control	None
Non-Detects	Is the LLD > the sample concentration.	No	None
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**U-235** FEEBRIS1D-13.093-094 Q FEEBRIS1D-13.093-094 DUP Q

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-06115
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-13.093-094
SAMPLE DATE: 6/12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	FEEBRIS1D-13.093-094 Rec = 111%	**U-234, U-235, U-238** FEEBRIS1D-13.093-094 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: The sample was analyzed after a 21 day ingrowth. All sample names were updated to the correct format in the DVRs and database. Example: FEEBRISID-3 028-029 was updated to FEEBRIS1D-03.028-029	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils.	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/L? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** **-Ac-228** (0.0581 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Bi-214,** (0.116 pCi/g) - Positive Blank Conc is >1.65 X blank uncertainty - qualify samples as B+ **K-40** (0.0 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pa-231** (-1.03 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required Pb-**210** (0.175 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	**all samples** Bi-214 B+ Ra-226 B+

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-212 (0.00874 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pb-214** (0.0195 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-226** (0.116 pCi/g) - - Positive Blank Conc is >1.65 X blank uncertainty - qualify samples as B+ **Ra-228** (0.0581 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Th-234** (0.268 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Tl-208** (-0.0223 pCi/g) Negative Blank Conc is <3 X blank uncertainty - no qualifications required	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Ac-228** FEEBRIS1D-03.028-029 1.27 pCi/g FEEBRIS1D-03.028-029 DUP 2.14 pCi/g Both samples <LLD - results are in control **Bi-214** FEEBRIS1D-03.028-029 184 pCi/g FEEBRIS1D-03.028-029 DUP 188 pCi/g RPD=2% - results are in control **K-40** FEEBRIS1D-03.028-029 11.6 pCi/g FEEBRIS1D-03.028-029 DUP 10.5 pCi/g Range = 0.02 is <2XLLD - results are in control **Pa-231** FEEBRIS1D-03.028-029 -91.3 pCi/g FEEBRIS1D-03.028-029 DUP -93.8 pCi/g Both results <LLD - results are in control	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-210 FEEBRIS1D-03.028-029 137 pCi/g FEEBRIS1D-03.028-029 DUP 114 pCi/g RPD=18% results are in control **Pb-212** FEEBRIS1D-03.028-029 38.8 pCi/g FEEBRIS1D-03.028-029 DUP 39.8 pCi/g RPD=3% results are in control **Pb-214** FEEBRIS1D-03.028-029 202 pCi/g FEEBRIS1D-03.028-029 DUP 205 pCi/g RPD=1% results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-03.028-029, FEEBRIS1D-12.061-062, FEEBRIS1D-11.085-086, FEEBRIS1D-03.041-043, FEEBRIS1D-15.077-080, FEEBRIS1D-15.087-088, FEEBRIS1D-03.041-043 FD, FEEBRIS1D-15.085-086
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Ra-226 FEEBRIS1D-03.028-029 184 pCi/g FEEBRIS1D-03.028-029 DUP 188 pCi/g RPD=2% results are in control **Ra-228** FEEBRIS1D-03.028-029 1.27 pCi/g FEEBRIS1D-03.028-029 DUP 2.14 pCi/g Both samples <LLD - results are in control **Th-234** FEEBRIS1D-03.028-029 232 pCi/g FEEBRIS1D-03.028-029 DUP 235 pCi/g RPD=1% results are in control **Tl-208** FEEBRIS1D-03.028-029 -0.642 pCi/g FEEBRIS1D-03.028-029 DUP -0.137 pCi/g Range = 0.083 is <2XLLD - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-03.028-029, FEEBRIS1D-03.041-043, FEEBRIS1D-03.041-043 FD, FEEBRIS1D-12.061-062, FEEBRIS1D-15.077-080, FEEBRIS1D-15.085-086, FEEBRIS1D-11.085-086, FEEBRIS1D-15.087-088
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Ac-228** FEEBRIS1D-03.028-029 DUP U FEEBRIS1D-03.028-029 U FEEBRIS1D-12.061-062 U FEEBRIS1D-15.085-086 U **Pb-212** FEEBRIS1D-12.061-062 U **Pa-231** FEEBRIS1D-03.028-029 U FEEBRIS1D-03.028-029 DUP U FEEBRIS1D-03.041-043 U FEEBRIS1D-03.041-043 FD U FEEBRIS1D-11.087-088 U FEEBRIS1D-12.061-062 U FEEBRIS1D-12.074-075 U FEEBRIS1D-15.077-080 U **Ra-226** FEEBRIS1D-03.041-043 U FEEBRIS1D-03.041-043 FD U FEEBRIS1D-11.087-088 U FEEBRIS1D-12.061-062 U FEEBRIS1D-12.074-075 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
			FEEBRIS1D-15.077-080 U FEEBRIS1D-03.028-029 U FEEBRIS1D-03.028-029 DUP U FEEBRIS1D-12.061-062 U FEEBRIS1D-15.085-086 U **Tl-208** FEEBRIS1D-03.028-029 U FEEBRIS1D-03.028-029 DUP U FEEBRIS1D-12.061-062 U FEEBRIS1D-15.085-086 U **Th-234** FEEBRIS1D-03.041-043 U FEEBRIS1D-11.085-086 U FEEBRIS1D-15.085-086 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**Ac-228** FEEBRIS1D-03.041-043 FD Q **Bi-214** FEEBRIS1D-03.041-043 FD Q FEEBRIS1D-12.061-062 Q **Pb-210** FEEBRIS1D-03.041-043 Q FEEBRIS1D-03.041-043 FD Q FEEBRIS1D-11.087-088 Q FEEBRIS1D-12.061-062 Q FEEBRIS1D-12.074-075 Q FEEBRIS1D-15.077-080 Q **Pb-212** FEEBRIS1D-12.061-062 Q **K-40** FEEBRIS1D-03.028-029 DUP Q FEEBRIS1D-03.028-029 Q FEEBRIS1D-12.061-062 Q

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-03.028-029, FEEBRIS1D-03.041-043, FEEBRIS1D-03.041-043 FD, FEEBRIS1D-12.061-062, FEEBRIS1D-15.077-080, FEEBRIS1D-15.085-086, FEEBRIS1D-11.085-086, FEEBRIS1D-15.087-088

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
			Pa-231 FEEBRIS1D-11.085-086 Q FEEBRIS1D-15.085-086 Q **Ra-228** FEEBRIS1D-03.041-043 FD Q **Tl-208** FEEBRIS1D-03.041-043 FD Q **Th-234** FEEBRIS1D-11.087-088 Q FEEBRIS1D-12.074-075 Q FEEBRIS1D-15.077-080 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Not applicable	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-03.041-043 FEEBRIS1D-03.041-043 FD Bi-214 - Range >2XLLD Pb-214 - Range >2XLLD K-40 RPD=59%	**FEEBRIS1D-03.041-043** Bi-214 J Pb-214 J K-40 J **FEEBRIS1D-03.041-043 FD** Bi-214 J Pb-214 J K-40 J

PROJECT NAME/NO.	West Lake Landfill Phase 1D Soils		
LABORATORY:	Eberline Services		
PROJECT ID:	15-07047		
MEDIA:	Soil		
FRACTION:	Radionuclides - Thorium (EML-Th-01)	Th-230, Th-232, Th-227 (Used to calculate Actinium-227)	
SAMPLE NUMBERS:	FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
	FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
	FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	
SAMPLE DATE:	7/2,10/2015		

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All sample names were updated to the correct format in the DVRs and database. Example: FEEBRISID-3 028-029 was updated to FEEBRIS1D-03.028-029	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable for soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-03.028-029 FEEBRIS1D-12.061-062 FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043 FEEBRIS1D-15.077-080 FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD FEEBRIS1D-15.085-086
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No **Method blank** - **Th-230** (0.135 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - **Th-232** (0.0241 pCi/g)-Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - **Ac-227** (0.0551 pC/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. No Th-230 121% (no LCS for Th-227)	**Th-230** all samples S+

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-03.028-029 FEEBRIS1D-12.061-062 FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043 FEEBRIS1D-15.077-080 FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD FEEBRIS1D-15.085-086
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Th-230** FEEBRIS1D-03.028-029 576 pCi/g FEEBRIS1D-03.028-029 DUP 616 pCi/g RPD =7% - results are in control **Th-232** FEEBRIS1D-03.028-029 4.07 pCi/g FEEBRIS1D-03.028-029 DUP 3.54 pCi/g RPD = 14% - results are in control **Ac-227** FEEBRIS1D-03.028-029 4.10 pCi/g FEEBRIS1D-03.028-029 DUP 4.15 pCi/g RPD = 1% - results are in control	None
Non-Detects	Is the LLD > the sample concentration.	see qualifications	**Ac-227** FEEBRIS1D-03.041-043 FD U FEEBRIS1D-12.074-075 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-03.028-029, FEEBRIS1D-03.041-043, FEEBRIS1D-03.041-043 FD, FEEBRIS1D-12.061-062, FEEBRIS1D-15.077-080, FEEBRIS1D-15.085-086, FEEBRIS1D-11.085-086, FEEBRIS1D-15.087-088
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Ac-227** FEEBRIS1D-03.041-043 Q FEEBRIS1D-11.087-088 Q FEEBRIS1D-12.061-062 Q FEEBRIS1D-15.077-080 Q **Th-232** FEEBRIS1D-03.041-043 Q FEEBRIS1D-03.041-043 FD Q FEEBRIS1D-12.061-062 Q FEEBRIS1D-12.074-075 Q FEEBRIS1D-15.077-080 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS:

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	FEEBRIS1D-03.041-043 FD Rec = 134% FEEBRIS1D-12.074-075 Rec =118% FEEBRIS1D-15.077-080 Rec = 111% FEEBRIS1D-15.085-086 Rec = 128% FEEBRIS1D-11.087-088 Rec = 121%	**Th-232, Th-230, Ac-227** FEEBRIS1D-03.041-043 FD J FEEBRIS1D-12.074-075 J FEEBRIS1D-15.077-080 J FEEBRIS1D-15.085-086 J FEEBRIS1D-11.087-088 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-03.041-043 FEEBRIS1D-03.041-043 FD Th-230 74% Th-232 73% Ac-227 range > 2XLLD	**FEEBRIS1D-03.041-043** Th-230 J Th-232 J Ac-227 J **FEEBRIS1D-03.041-043 FD** Th-230 J Th-232 J Ac-227 J

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE NUMBERS:
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes FEEBRIS1D-03.041-043 FD was reanalyzed; chemical recovery was 0% All sample names were updated to the correct format in the DVRs and database. Example: FEEBRISID-3 028-029 was updated to FEEBRIS1D-03.028-029	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE NUMBERS:
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Uranium-234 (0.00708 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-235 (-0.00606 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required - Uranium-238 (0.00705 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE NUMBERS:
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **U-234** FEEBRIS1D-03.028-029 9.36 pCi/g FEEBRIS1D-03.028-029 DUP 8.93 pCi/g RPD = 5% - results are in control **U-235** FEEBRIS1D-03.028-029 0.592 pCi/g FEEBRIS1D-03.028-029 DUP 0.727 pCi/g RPD = 20% - results are in control **U-238** FEEBRIS1D-03.028-029 9.27 pCi/g FEEBRIS1D-03.028-029 DUP 8.48 pCi/g RPD = 9% - results are in control	None
Non-Detects	Is the LLD > the sample concentration.	see qualifications	**U-235** FEEBRIS1D-03.041-043 U FEEBRIS1D-15.077-080 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE NUMBERS:
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**U-234** FEEBRIS1D-03.041-043 FD Q FEEBRIS1D-12.061-062 Q FEEBRIS1D-15.077-080 Q **U-235** FEEBRIS1D-03.041-043 FD Q FEEBRIS1D-11.085-086 Q FEEBRIS1D-11.087-088 Q FEEBRIS1D-12.061-062 Q FEEBRIS1D-12.074-075 Q FEEBRIS1D-15.085-086 Q **U-238** FEEBRIS1D-03.041-043 FD Q FEEBRIS1D-12.061-062 Q FEEBRIS1D-12.074-075 Q FEEBRIS1D-15.077-080 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07047
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

FEEBRIS1D-03.028-029	FEEBRIS1D-12.061-062	FEEBRIS1D-11.085-086
FEEBRIS1D-03.041-043	FEEBRIS1D-15.077-080	FEEBRIS1D-15.087-088
FEEBRIS1D-03.041-043 FD	FEEBRIS1D-15.085-086	

SAMPLE NUMBERS:
SAMPLE DATE: 7/2,10/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	FEEBRIS1D-03.041-043 Rec = 114%	**U-234, U-235, U-238** FEEBRIS1D-03.041-043 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-03.041-043 FEEBRIS1D-03.041-043 FD U-234 RPD = 40% U-235 Range exceeds limit U-238 132%	**U-234, U-235, U-238** FEEBRIS1D-03.041-043 J FEEBRIS1D-03.041-043 FD J

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: The sample was analyzed after a 21 day ingrowth. All sample names were updated to the correct format in the DVRs and database. Example: FEEBRIS1D-19 061-063 was updated to FEEBRIS1D-19.061-063	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils.	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/L? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** **-Ac-228** (0.0435 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Bi-214,** (0.0826 pCi/g) - Positive Blank Conc is >1.65 X blank uncertainty - qualify samples as B+ **K-40** (0.113 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pa-231** (0.219 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required Pb-**210** (1.06 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	**all samples** Bi-214 B+ Ra-226 B+ Th-234 B+

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-212 (0.0205 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pb-214** (0.00586 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-226** (0.0826 pCi/g) - Positive Blank Conc is >1.65 X blank uncertainty - qualify samples as B+ **Ra-228** (0.0435 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Th-234** (0.557 pCi/g) - Positive Blank Conc is >1.65 X blank uncertainty - qualify samples as B+ **Tl-208** (0.00638 pCi/g) Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Ac-228** FEEBRIS1D-19.061-063 1.23 pCi/g FEEBRIS1D-19.061-063 DUP 1.19 pCi/g RPD=3% - results are in control **Bi-214** FEEBRIS1D-19.061-063 1.17 pCi/g FEEBRIS1D-19.061-063 DUP 1.13 pCi/g RPD=3% - results are in control **K-40** FEEBRIS1D-19.061-063 17.7 pCi/g FEEBRIS1D-19.061-063 DUP 18.6 pCi/g RPD=5% - results are in control **Pa-231** FEEBRIS1D-19.061-063 -2.19 pCi/g FEEBRIS1D-19.061-063 DUP-1.27 pCi/g Both results <LLD - results are in control	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-210 FEEBRIS1D-19.061-063 0.420 pCi/g FEEBRIS1D-19.061-063 DUP 0.316 pCi/g Both samples <LLD - results are in control **Pb-212** FEEBRIS1D-19.061-063 1.67 pCi/g FEEBRIS1D-19.061-063 DUP 1.64 pCi/g RPD=2% results are in control **Pb-214** FEEBRIS1D-19.061-063 1.24 pCi/g FEEBRIS1D-19.061-063 DUP 0.974 pCi/g Range = 0.266 is <2XLLD - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Ra-226 FEEBRIS1D-19.061-063 1.17 pCi/g FEEBRIS1D-19.061-063 DUP 1.13 pCi/g RPD=2% results are in control **Ra-228** FEEBRIS1D-19.061-063 1.23 pCi/g FEEBRIS1D-19.061-063 DUP 1.19 pCi/g RPD=3% results are in control **Th-234** FEEBRIS1D-19.061-063 1.39 pCi/g FEEBRIS1D-19.061-063 DUP 2.54 pCi/g Range = 1.15 is <2XLLD - results are in control **Tl-208** FEEBRIS1D-19.061-063 0.837 pCi/g FEEBRIS1D-19.061-063 DUP 1.23 pCi/g Range = 0.393 is <2XLLD - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Pb-210** FEEBRIS1D-19.061-063 U FEEBRIS1D-19.061-063 DUP U **Pa-231** FEEBRIS1D-10.046-049 U FEEBRIS1D-10.074-076 U FEEBRIS1D-19.061-063 U FEEBRIS1D-19.061-063 DUP U FEEBRIS1D-19.061-063 FD U **Ra-226** FEEBRIS1D-10.046-049 U FEEBRIS1D-10.074-076 U FEEBRIS1D-19.061-063 DUP U FEEBRIS1D-19.061-063 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**Pb-210** FEEBRIS1D-10.046-049 Q FEEBRIS1D-10.074-076 Q FEEBRIS1D-19.061-063 FD Q **Tl-208** FEEBRIS1D-19.061-063 Q **Th-234** FEEBRIS1D-10.046-049 Q FEEBRIS1D-10.074-076 Q FEEBRIS1D-19.061-063 Q FEEBRIS1D-19.061-063 Q FEEBRIS1D-19.061-063 FD Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Not applicable	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-19.061-063 FEEBRIS1D-19.061-063 FD all results were in control	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228, Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All sample names were updated to the correct format in the DVRs and database. Example: FEEBRIS1D-19 061-063 was updated to FEEBRIS1D-19.061-063	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable for soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228, Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No **Method blank** - **Th-228** (0.0136 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - **Th-230** (0.0515 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - **Th-232** (0.0413 pCi/g)-Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228, Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Th-228** FEEBRIS1D-19.061-063 0.252 pCi/g FEEBRIS1D-19.061-063 DUP 0.312 pCi/g RPD =21% - qualify parent sample as P **Th-230** FEEBRIS1D-19.061-063 0.592 pCi/g FEEBRIS1D-19.061-063 DUP 1.08 pCi/g RPD =58% - qualify parent sample as P **Th-232** FEEBRIS1D-19.061-063 0.457 pCi/g FEEBRIS1D-19.061-063 DUP 0.539 pCi/g RPD = 16% - results are in control **Ac-227** FEEBRIS1D-19.061-063 0.129 pCi/g FEEBRIS1D-19.061-063 DUP 0.114 pCi/g RPD = 12% - results are in control	**Th-228, Th-230** FEEBRIS1D-19.061-063 P FEEBRIS1D-19.061-063 DUP P
Non-Detects	Is the LLD > the sample concentration.	No	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228, Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Ac-227** FEEBRIS1D-10.046-049 Q FEEBRIS1D-10.074-076 Q FEEBRIS1D-19.061-063 DUP Q FEEBRIS1D-19.061-063 Q FEEBRIS1D-19.061-063 FD **Th-228** FEEBRIS1D-19.061-063 Q FEEBRIS1D-19.061-063 DUP Q **Th-232** FEEBRIS1D-19.061-063 FD Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-228, Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	FEEBRIS1D-19.061-063 Rec = 78% FEEBRIS1D-10.046-049 Rec = 118%	**Th-232, Th-228, Th-230, Ac-227** FEEBRIS1D-19.061-063 J FEEBRIS1D-10.046-049 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-19.061-063 FEEBRIS1D-19.061-063 FD Th-232 64% Ac-227 51%	**FEEBRIS1D-19.061-063** Th-232 J Ac-227 J **FEEBRIS1D-19.061-063 FD** Th-232 J Ac-227 J

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes All sample names were updated to the correct format in the DVRs and database. Example: FEEBRIS1D-19 061-063 was updated to FEEBRIS1D-19.061-063	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Uranium-234 (0.0663 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-235 (0.228 pCi/g) - Positive Blank Conc is >1.65X blank uncertainty - qualify samples as B+ - Uranium-238 (0.139 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	**all samples** U-235 B+
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **U-234** FEEBRIS1D-19.061-0630.400 pCi/g FEEBRIS1D-19.061-063 DUP 0.471 pCi/g RPD = 16% - results are in control **U-235** FEEBRIS1D-19.061-063 0.164 pCi/g FEEBRIS1D-19.061-063 DUP 0.102 pCi/g RPD = 47% - qualify parent sampes as P **U-238** FEEBRIS1D-19.061-063 0.336 pCi/g FEEBRIS1D-19.061-063 DUP 0.551 pCi/g RPD = 48% - qualify parent sampes as P	**FEEBRIS1D-19.061-063** U-235 P U-238 P **FEEBRIS1D-19.061-063 DUP** U-235 P U-238 P
Non-Detects	Is the LLD > the sample concentration.	No	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**U-234** FFEEBRIS1D-10.046-049 Q **U-235** FEEBRIS1D-10.046-049 Q FEEBRIS1D-10.074-076 Q FEEBRIS1D-19.061-063 Q FEEBRIS1D-19.061-063 DUP Q FEEBRIS1D-19.061-063 FD Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	FEEBRIS1D-10.046-049 Rec = 64%	**U-234, U-235, U-238** FEEBRIS1D-10.046-049 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07092
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS: FEEBRIS1D-19.061-063
FEEBRIS1D-19.061-063 FD
FEEBRIS1D-10.046-049
FEEBRIS1D-10.074-076

SAMPLE DATE: 7/8,9,12/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-19.061-063 FEEBRIS1D-19.061-063 FD U-234 RPD = 49% U-238 RPD = 53%	**U-234, U-238** FEEBRIS1D-19.061-063 J FEEBRIS1D-19.061-063 FD J

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Gross α&β (LANL MLR-100 Modified)
SAMPLE NUMBERS: 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE(S): 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to air filters	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in uCi/ml? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Gross α&β (LANL MLR-100 Modified)
SAMPLE NUMBERS: 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE(S): 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. Yes **Method blank** gross α (-4.70E-15 uCi/ml) - Blank Conc is <3X blank uncertainty - no qualification required gross β (2.04E-14 uCi/ml) - Blank Conc is <1.65 X blank uncertainty - no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in uCi/ml? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1.Yes 2. Yes 3. Yes gross α: 070115-1D-3-A 2.22E-14 uCi/ml 070115-1D-3-A dup 1.34E-14 uCi/ml range = 8.8E-15 is <2XLLD - results are in control gross β 070115-1D-3-A 1.76E-13 uCi/ml 070115-1D-3-A Dup 1.64E-13 uCi/ml range =1.2E-14 is <2XLLD - results are in control	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Gross α&β (LANL MLR-100 Modified)
SAMPLE NUMBERS: 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE(S): 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Non-Detects	Is the LLD > the sample concentration.	See qualifications	**Gross α** 062315-1D-11-A U 062415-1D-15-A U 062515-1D-15-A U 062715-1D-12-A U 071015-1D-8-A U 071115-1D-6-A U 071315-1D-16-A U 071515-1D-20-A U
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	See qualifications	Gross α 070115-1D-3-A Q 070915-1D-4-A Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Gross α&β (LANL MLR-100 Modified)
SAMPLE NUMBERS: 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE(S): 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicates were collected with this SDG	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 070115-1D-3-A, 062315-1D-11-A, 062415-1D-15-A, 062515-1D-15-A, 062615-1D-15-A, 062615-1D-12-A, 062715-1D-12-A, 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE: 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to air filters	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in uCi/ml? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 070115-1D-3-A, 062315-1D-11-A, 062415-1D-15-A, 062515-1D-15-A, 062615-1D-15-A, 062615-1D-12-A, 062715-1D-12-A, 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE: 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Thorium-228 (1.41E-15 uCi/ml) - Blank Conc is <1.65 X blank uncertainty- no qualification required - Thorium-230 (2.65E-15 uCi/ml) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - Thorium-232 (5.29E-16 uCi/ml) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 070115-1D-3-A, 062315-1D-11-A, 062415-1D-15-A, 062515-1D-15-A, 062615-1D-15-A, 062615-1D-12-A, 062715-1D-12-A, 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE: 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in uCi/ml? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Th-228** 070115-1D-3-A 2.11E-14 uCi/ml 070115-1D-3-A DUP 2.75E-14 uCi/ml RPD = 26% - qualify results of parent sample only as P **Th-230** 070115-1D-3-A 2.00E-14 uCi/ml 070115-1D-3-A DUP 2.83E-14 uCi/ml Range = 8.3E-15 is <2XLLD - results are in control **Th-232** 070115-1D-3-A 2.06E-14 uCi/ml 070115-1D-3-A DUP 2.46E-14 uCi/ml RPD = 18% - results are in control	**Th-228** 070115-3A P 070115-3A DUP P
Non-Detects	Is the LLD > the sample concentration.	No	None

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 070115-1D-3-A, 062315-1D-11-A, 062415-1D-15-A, 062515-1D-15-A, 062615-1D-15-A, 062615-1D-12-A, 062715-1D-12-A, 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE: 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Th-228** 062615-1D-12-A Q **Th-232** 062615-1D-12-A Q 062915-1D-10-A Q 070915-1D-4-A Q 071515-1D-20-A Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	062515-1D-15-A 72% 062615-1D-15-A 57.2% 062615-1D-12-A 64.6% 062915-1D-10-A 67.4% 063015-1D-19-A 67.4% 070915-1D-4-A 48.9% 071415-1D-5-A 71.2%	**Th-228, Th-230, Th-232** 062515-1D-15-A J 062615-1D-15-A J 062615-1D-12-A J 062915-1D-10-A J 063015-1D-19-A J 070915-1D-4-A J 071415-1D-5-A J

PROJECT NAME/NO. West Lake Landfill Air Monitoring
LABORATORY: Eberline Services
PROJECT ID: 15-07145
MEDIA: Air (filters)
FRACTION: Radionuclides - Thorium (EML-Th-01)
SAMPLE NUMBERS: 070115-1D-3-A, 062315-1D-11-A, 062415-1D-15-A, 062515-1D-15-A, 062615-1D-15-A, 062615-1D-12-A, 062715-1D-12-A, 062915-1D-10-A, 063015-1D-19-A, 070915-1D-4-A, 071015-1D-8-A, 071115-1D-6-A, 071315-1D-16-A, 071415-1D-5-A, 071515-1D-20-A
SAMPLE DATE: 6/23, 6/24, 6/25, 6/26, 6/27, 6/29, 6/30, 7/1, 7/9, 7/10, 7/11, 7/13, 7/14, 7/15 2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	No field duplicate was collected with this sample set.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: The sample was analyzed after a 21 day ingrowth.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils.	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/L? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** **-Ac-228** (0.0607 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Bi-214,** (0.0402 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **K-40** (0.235 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pa-231** (0.0648 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required Pb-**210** (0.775 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-212 (0.0270 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pb-214** (0.0114 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-226** (0.0402 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-228** (0.0607 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Th-234** (0.305 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Tl-208** (0.0177 pCi/g) Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-5.063-064; FEEBRIS1D-5.051-052; FEEBRIS1D-6.080-081; FEEBRIS1D-6.085-086; FEEBRIS1D-7.093-094; FEEBRIS1D-16.050-051; FEEBRIS1D-16.059-061; DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)
SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Ac-228** FEEBRIS1D-5-063-064 0.792 pCi/g FEEBRIS1D-5-063-064 DUP 0.839 pCi/g Range = 0.047 is <2XLLD - results are in control **Bi-214** FEEBRIS1D-5-063-064 0.995 pCi/g FEEBRIS1D-5-063-064 DUP 1.06 pCi/g RPD=6% - results are in control **K-40** FEEBRIS1D-5-063-064 15.0 pCi/g FEEBRIS1D-5-063-064 DUP 15.4 pCi/g RPD=3% - results are in control **Pa-231** FEEBRIS1D-5-063-064 -0.112 pCi/g FEEBRIS1D-5-063-064 DUP 0.417 pCi/g Both results <LLD - results are in control	**Th-234** FEEBRIS1D-5-063-064 P FEEBRIS1D-5-063-064 DUP P

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-5.063-064; FEEBRIS1D-5.051-052; FEEBRIS1D-6.080-081; FEEBRIS1D-6.085-086; FEEBRIS1D-7.093-094; FEEBRIS1D-16.050-051; FEEBRIS1D-16.059-061; DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)
SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-210 FEEBRIS1D-5-063-064 1.51 pCi/g FEEBRIS1D-5-063-064 DUP 1.88 pCi/g Range = 0.37 is <2XLLD - results are in control **Pb-212** FEEBRIS1D-5-063-064 0.987 pCi/g FEEBRIS1D-5-063-064 DUP 1.02 pCi/g RPD=3% - results are in control **Pb-214** FEEBRIS1D-5-063-064 1.05 pCi/g FEEBRIS1D-5-063-064 DUP 1.00 pCi/g RPD=5% - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Ra-226 FEEBRIS1D-5-063-064 1.06 pCi/g FEEBRIS1D-5-063-064 DUP 0.995 pCi/g Range = 0.065 is <2XLLD - results are in control **Ra-228** FEEBRIS1D-5-063-064 0.792 pCi/g FEEBRIS1D-5-063-064 DUP 0.839 pCi/g Range = 0.047 is <2XLLD - results are in control **Th-234** FEEBRIS1D-5-063-064 2.47 pCi/g FEEBRIS1D-5-063-064 DUP 1.81pCi/g Range = 0.66 is >2XLLD - qualify results as P **Tl-208** FEEBRIS1D-5-063-064 0.645 pCi/g FEEBRIS1D-5-063-064 DUP 0.734 pCi/g Range = 0.089 is <2XLLD - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Pb-210** FEEBRIS1D-16.059-061 U FEEBRIS1D-16.059-061 FD U **Pa-231** FEEBRIS1D-16.059-061 U FEEBRIS1D-16.059-061 FD U FEEBRIS1D-5.051-052 U FEEBRIS1D-5.063-064 U FEEBRIS1D-5.063-064 U FEEBRIS1D-6.080-081 U FEEBRIS1D-6.085-086 U FEEBRIS1D-7.093-094 U **Ra-226** FEEBRIS1D-16.059-061 U FEEBRIS1D-16.059-061 FD U FEEBRIS1D-5.063-064 U FEEBRIS1D-6.080-081 U FEEBRIS1D-6.085-086 U **Tl-208** FEEBRIS1D-7.093-094 U **Th-234** FEEBRIS1D-16.050-051 U FEEBRIS1D-16.059-061 U FEEBRIS1D-7.093-094 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**Pb-210** FEEBRIS1D-5.063-064 Q **Th-234** FEEBRIS1D-16.059-061 FD Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Not applicable	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-16.059-061 FEEBRIS1D-16.059-061 FD all results were in control	None

PROJECT NAME/NO.	West Lake Landfill Phase 1D Soils	
LABORATORY:	Eberline Services	
PROJECT ID:	15-07182	
MEDIA:	Soil	
FRACTION:	Radionuclides - Thorium (EML-Th-01)	Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS:	FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
	FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
	FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
	FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable for soils	None
Holding Times	Samples met holding time requirement (180 days)?	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO.	West Lake Landfill Phase 1D Soils	
LABORATORY:	Eberline Services	
PROJECT ID:	15-07182	
MEDIA:	Soil	
FRACTION:	Radionuclides - Thorium (EML-Th-01)	Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS:	FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
	FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
	FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
	FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No **Method blank** - **Th-230** (0.107 pCi/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - **Th-232** (0.0840 pCi/g)-Positive Blank Conc is <1.65 X blank uncertainty- no qualification required - **Ac-227** (0.0888 pC/g) -Positive Blank Conc is <1.65 X blank uncertainty- no qualification required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS: FEEBRIS1D-5.063-064 FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052 FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081 FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086 DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Th-230** FEEBRIS1D-5.063-064 0.386 pCi/g FEEBRIS1D-5.063-064 DUP 0.453 pCi/g RPD = 16% - results are in control **Th-232** FEEBRIS1D-5.063-064 0.0472 pCi/g FEEBRIS1D-5.063-064 DUP 0.195 pCi/g Range = 0.148 is > 2XLLD - qualify parent sample as P **Ac-227** FEEBRIS1D-5.063-064 0.0967 pCi/g FEEBRIS1D-5.063-064 DUP 0.0499 pCi/g Range = 0.0468 - qualify parent sample as P	**Ac-227, Th-232** FEEBRIS1D-5.063-064 P FEEBRIS1D-5.063-064 DUP P
Non-Detects	Is the LLD > the sample concentration.	see qualifications	**Ac-227** FEEBRIS1D-16.059-061 FD U

PROJECT NAME/NO.	West Lake Landfill Phase 1D Soils	
LABORATORY:	Eberline Services	
PROJECT ID:	15-07182	
MEDIA:	Soil	
FRACTION:	Radionuclides - Thorium (EML-Th-01)	Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS:	FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
	FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
	FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
	FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications.	**Ac-227** FEEBRIS1D-6.080-081 Q FEEBRIS1D-16.059-061 Q FEEBRIS1D-5.063-064 DUP Q **Th-232** FEEBRIS1D-5.063-064 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% check for spectral degradation.	FEEBRIS1D-5.051-052 Rec = 123% FEEBRIS1D-6.085-086 Rec = 112% FEEBRIS1D-16.050-051 Rec = 127%	**Th-232, Th-230, Ac-227** FEEBRIS1D-5.051-052 J FEEBRIS1D-6.085-086 J FEEBRIS1D-16.050-051 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Radionuclides - Thorium (EML-Th-01) Th-230, Th-232, Th-227 (Used to calculate Actinium-227)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-16.059-061 FEEBRIS1D-16.059-061 FD Results were in control	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Uranium-234 (0.0261 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-235 (0.0498 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-238 -0.00724 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **U-234** FEEBRIS1D-5.063-064 0.273 pCi/g FEEBRIS1D-5.063-064 DUP 0.234 pCi/g Range = 0.039 <2XLLD - results are in control **U-235** FEEBRIS1D-5.063-064 0.0157 pCi/g FEEBRIS1D-5.063-064 DUP 0.0590 pCi/g Range = 0.0433 >2XLLD - qualify parent samples as P **U-238** FEEBRIS1D-5.063-064 0.203 pCi/g FEEBRIS1D-5.063-064 DUP 0.263 pCi/g RPD = 26%- - qualify parent samples as P	**FEEBRIS1D-5.063-064** U-235 P U-238 P **FEEBRIS1D-5.063-064 DUP** U-235 P U-238 P
Non-Detects	Is the LLD > the sample concentration.	No	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**U-235** FEEBRIS1D-5.063-064 Q FEEBRIS1D-6.085-086 Q FEEBRIS1D-16.059-061 FD Q FEEBRIS1D-7.093-094 Q FEEBRIS1D-5.063-064 DUP Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	FEEBRIS1D-5.063-064 Rec = 53.8% FEEBRIS1D-6.085-086 Rec = 68.3% FEEBRIS1D-16.050-051 Rec = 61.8% FEEBRIS1D-16.059-061 Rec = 113%	**U-234, U-235, U-238** FEEBRIS1D-5.063-064 J FEEBRIS1D-6.085-086 J FEEBRIS1D-16.050-051 J FEEBRIS1D-16.059-061 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-07182
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-5.063-064	FEEBRIS1D-7.093-094
FEEBRIS1D-5.051-052	FEEBRIS1D-16.050-051
FEEBRIS1D-6.080-081	FEEBRIS1D-16.059-061
FEEBRIS1D-6.085-086	DUPLICATE 4 (field dup of FEEBRIS1D-16.059-061)

SAMPLE DATE: 7/20, 21, 24, 27/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-16.059-061 FEEBRIS1D-16.059-061 FD U-235 RPD = 276% U-238 RPD = 39%	**U-235, U-238** FEEBRIS1D-16.059-061 J FEEBRIS1D-16.059-061 FD J

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes Note: The sample was analyzed after a 21 day ingrowth.	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils.	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/L? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-8.075-076, FEEBRIS1D-8.090-091, FEEBRIS1D-4.061-062, FEEBRIS1D-4.064-065, FEEBRIS1D-20.080-081, FEEBRIS1D-20.089-090, FEEBRIS1D-7.084-085, DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)
SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** **-Ac-228** (-0.0194 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required **Bi-214,** (0.0477 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **K-40** (-0.213 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required **Pa-231** (-0.396 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required **Pb-210** (0.395 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-212 (0.0506 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Pb-214** (0.0145 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-226** (0.0477 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Ra-228** (-0.0194 pCi/g) - Negative Blank Conc is <3 X blank uncertainty - no qualifications required **Th-234** (0.225 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required **Tl-208** (-0.0157 pCi/g) Negative Blank Conc is <3 X blank uncertainty - no qualifications required	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS: FEEBRIS1D-8.075-076, FEEBRIS1D-8.090-091, FEEBRIS1D-4.061-062, FEEBRIS1D-4.064-065, FEEBRIS1D-20.080-081, FEEBRIS1D-20.089-090, FEEBRIS1D-7.084-085, DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)
SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **Ac-228** FEEBRIS1D-8.075-076 0.891 pCi/g FEEBRIS1D-8.075-076 DUP 0.943 pCi/g Range = 0.052 is <2XLLD - results are in control **Bi-214** FEEBRIS1D-8.075-076 4.37 pCi/g FEEBRIS1D-8.075-076 DUP 4.54 pCi/g RPD=4% - results are in control **K-40** FEEBRIS1D-8.075-076 9.44 pCi/g FEEBRIS1D-8.075-076 DUP 10.7 pCi/g RPD=13% - results are in control **Pa-231** FEEBRIS1D-8.075-076 -0.258 pCi/g FEEBRIS1D-8.075-076 DUP 0.977 pCi/g Both results <LLD - results are in control	**FEEBRIS1D-8.075-076** **FEEBRIS1D-8.075-076 DUP** Pb-212 P

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Pb-210 FEEBRIS1D-8.075-076 3.10 pCi/g FEEBRIS1D-8.075-076 DUP 3.44 pCi/g Range = 0.34 is <2XLLD - results are in control **Pb-212** FEEBRIS1D-8.075-076 0.999 pCi/g FEEBRIS1D-8.075-076 DUP 0.787 pCi/g RPD=24% - qualify results as P **Pb-214** FEEBRIS1D-8.075-076 4.96 pCi/g FEEBRIS1D-8.075-076 DUP 4.91 pCi/g RPD=1%- results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)
SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
		Ra-226 FEEBRIS1D-8.075-076 4.37 pCi/g FEEBRIS1D-8.075-076 DUP 4.54 pCi/g Range = 0.017 is <2XLLD - results are in control **Ra-228** FEEBRIS1D-8.075-076 0.891 pCi/g FEEBRIS1D-8.075-076 DUP 0.943 pCi/g Range = 0.052 is <2XLLD - results are in control **Th-234** FEEBRIS1D-8.075-076 1.10 pCi/g FEEBRIS1D-8.075-076 DUP 2.60 pCi/g Range = 1.50 is <2XLLD - results are in control **Tl-208** FEEBRIS1D-8.075-076 0.860 pCi/g FEEBRIS1D-8.075-076 DUP 0.646 pCi/g Range = 0.214 is <2XLLD - results are in control	

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Non-Detects	Is the LLD > the sample concentration.	see qualifications.	**Ac-228** FEEBRIS1D-20.080-081 FD U **Pb-212** FEEBRIS1D-7.084-085 U FEEBRIS1D-20.080-081 U **Pa-231** FEEBRIS1D-20.080-081 FD U FEEBRIS1D-20.089-090 U FEEBRIS1D-4.061-062 U FEEBRIS1D-4.064-065 U FEEBRIS1D-7.084-085 U FEEBRIS1D-8.075-076 U FEEBRIS1D-8.075-076 DUP U FEEBRIS1D-8.090-091 U **Ra-228** FEEBRIS1D-20.080-081 FD U **Tl-208** FEEBRIS1D-20.080-081 FD U FEEBRIS1D-7.084-085 U **Th-234** FEEBRIS1D-7.084-085 U FEEBRIS1D-8.075-076 U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**Ac-228** FEEBRIS1D-20.080-081 Q **Pb-210** FEEBRIS1D-4.064-065 Q **Ra-228** FEEBRIS1D-20.080-081 Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	Not applicable	None
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Gamma Scan - 21 day ingrowth (Actinium-228, Bismuth-214, Potassium-40, Proactinium-231, Lead-210, Lead-212, Lead-214, Radium-226, Radium-228, Thorium-234, Thallium-208)

SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-20.080-081 FEEBRIS1D-20.080-081 FD Results were in control	None

AMO ENVIRONMENTAL DECISIONS

AUXIER & ASSOCIATES, INC.

Bridgeton ENG/BOR 1-D

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #15-08002-OR

September 2, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 15-00002

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		8/3/15	KC	Sample Log-In
		8/26/15	[illegible]	Data Compilation
		8-26-15	MLT	First Technical Data Review
		8/27/15	MSt	Second Technical Data Review
		08/28/15	EyT	Data Entry/Electronic Deliverable
		08/28/15	EyT	Case Narrative
		8/31/15	KBS	Electronic Deliverable Proof
		8/31/15	MSt	Samples Analyzed within Holding Time Yes? [X] No? [ ]
		8/31/15	MSt	QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: [signature] for Laboratory Manager 9/2/15 Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

Chain of Custody Record

№ 7122

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

Project Name: Bridgeton	Project Number: BOR/ENG ID
Send Report To: C. Greene	Sampler (Print Name): Alex Lunca
Address: 9821 Cogdill Rd #1	Sampler (Print Name): Ashley Salur
Knoxville, TN 37932	Shipment Method: Fedex
	Airbill Number: 8045-4989-4412
Phone: 865-675-3609	Laboratory Receiving:
Email: CGREENE@Auxier.com	

Page ___ of ___

15-0802

Purchase Order #: _____

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested: GAMMA SPEC; ISO THORIUM; ISO URANIUM	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
4 FEEBRISID-8.075-076	7/29/15	0906	~~GS~~ S	1	X X X		
5 FEEBRISID-8.090-091	7/29/15	0941	~~GS~~ S	1	X X X		
6 FEEBRISID-4.061-062	7/30/15	0735	S	1	X X X		
7 FEEBRISID-4.064-065	7/30/15	0740	S	1	X X X		
8 FEEBRISID-20.080-081	7/30/15	0957	S	1	X X X	REC'D AUG 03 2015	
9 DUPLICATE #5	7/30/15	0957	S	1	X X X		
10 FEEBRISID-20.089-090	7/30/15	1024	S	1	X X X		
11 FEEBRISID-7.084-085	7/29/15	0807	S	1	X X X		

N/A

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		7/30/15	1410
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Kristen Coulston	8/3/15	900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):

QA/QC Level	Turnaround
Level I ☐	Routine ☐
Level II ☐	24 Hour ☐
Level III ☐	1 Week ☐
Other ☐	Other _____

Sample Receipt	
Total # Containers Received?	
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	

50005

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-08002
Lab Deadline	8/25/2015
Analysis	UUISO - Level 4
Sample Matrix	Soil/Solid

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	82	ESC1.3
05	65	ESC1.3
06	90	ESC1.3
07	69	ESC1.3
08	153	ESC1.3
09	77	ESC1.3
10	101	ESC1.3
11	7570	ESC1.3

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room 1130	Kenny Seay	8-3-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 1305	Kenny Seay	8-4-15
Received by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JNolpe 8/4/15 1305	
Relinquished by	Sample Storage	Rough Prep	(Prep)	Separations	Count Room	JNolpe 8/4/15 1112	
Received by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 8-12-15 1130	
Relinquished by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	[illegible] 8/12/15 ORD 2	
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	8/17 0800	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KLS 8/17/15 1432	
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

00006

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	15-08002
Lab Deadline	8/25/2015
Analysis	ThISO - Level 4
Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	82	ESC1.3
	05	65	ESC1.3
	06	90	ESC1.3
	07	69	ESC1.3
	08	153	ESC1.3
	09	77	ESC1.3
	10	101	ESC1.3
	11	7570	ESC1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1130	Kmy Scs	8-3-15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1305	Kmy Scs	8-4-15
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWOlfe 8-4-15 1305	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	JWOlfe 8/4/15 1620	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 8-12-15 1120	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 8-14-15 0804	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible] 0804	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	KB 8/14/15 1420	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

00007

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EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	**15-08002**
Lab Deadline	**8/25/2015**
Analysis	**Gamma - Level 4**
Sample Matrix	**Soil/Solid**

Comments

21 day ingrowth: Report Ac228, Bi214, K40, Pa231, Pb210/212/214, Ra226 from Bi214, Ra228 from Ac228, Tl208, Th234 & positives.

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	82	ESC1.3
05	65	ESC1.3
06	90	ESC1.3
07	69	ESC1.3
08	153	ESC1.3
09	77	ESC1.3
10	101	ESC1.3
11	7570	ESC1.3

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	(Rough Prep)	Prep	Separations	Count Room 1130	Kerry Sexj	8-3-15
Relinquished by	Sample Storage	(Rough Prep)	Prep	Separations	Count Room 1215	Kerry Sexj	8-4-15
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KB 8/4/15	1220
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	[illegible]	
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

00008

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SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
AMO Environmental Decisions	ENG/BOR.1D	Environmental	08/03/2015	28	15-08002
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
ENG/BOR.1D	BRIDGETON LANDFILL SOIL	H	08/25/2015	08/28/2015	08/31/2015

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	ThISO	UUISO																				Ttl
01	LCS	08/03/15	SO	ESC1.3	X	X	X																				3
02	BLANK	08/03/15	SO	ESC1.3	X	X	X																				3
03	DUP	08/03/15	SO	ESC1.3	X	X	X																				3
04	FEEBRIS1D-8 075-076	07/29/15 09:06	SO	ESC1.3	X	X	X																				3
05	FEEBRIS1D-8 090-091	07/29/15 09:41	SO	ESC1.3	X	X	X																				3
06	FEEBRIS1D-4 061-062	07/30/15 07:35	SO	ESC1.3	X	X	X																				3
07	FEEBRIS1D-4 064-065	07/30/15 07:40	SO	ESC1.3	X	X	X																				3
08	FEEBRIS1D-20 080-081	07/30/15 09:57	SO	ESC1.3	X	X	X																				3
09	DUPLICATE 5	07/30/15 09:57	SO	ESC1.3	X	X	X																				3
10	FEEBRIS1D-20 089-090	07/30/15 10:24	SO	ESC1.3	X	X	X																				3
11	FEEBRIS1D-7 084-085	07/24/15 08:07	SO	ESC1.3	X	X	X																				3
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
Totals Per Analysis (non QA samples)					8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

EBERLINE SERVICES

Sample Log In Report

0001O

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice		Report Data		
	West Lake Landfill OU-1 Resp		Cecilia Greene	Marsha Joseph
	AMO Environmental Decisions		Auxier & Associates, Inc.	Auxier, Inc.
	PO Box 410		9821 Cogdill St, Suite 1	9821 Cogdill St, Suite 1
	Danboro, PA 18916		Knoxville, TN 37932	Knoxville, TN 37932
Voice	215-230-8282	*Voice*	865-675-0379	865-675-3669
Fax	215-230-8283	*Fax*	865-675-3677	865-675-3677
Contact	Marsha Joseph			
Voice	865-675-3669			
Fax	865-675-3677			

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Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 15-00002

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS NON-AQUEOUS

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	Y	N	(N/A)

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Kristen Coulston DATE: 8/3/15

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39595

September 2, 2015

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road #1
Knoxville, TN 37932

CASE NARRATIVE
Work Order # 15-08002-OR

SAMPLE RECEIPT

This work order contains eight soil samples received 08/03/2015. These samples were analyzed for Isotopic Uranium, Isotopic Thorium and by Gamma Spectroscopy.

CLIENT ID	LAB ID	CLIENT ID	LAB ID
FEEBRIS1D-8 075-076	15-08002-04	FEEBRIS1D-20 080-081	15-08002-08
FEEBRIS1D-8 090-091	15-08002-05	DUPLICATE 5	15-08002-09
FEEBRIS1D-4 061-062	15-08002-06	FEEBRIS1D-20 089-090	15-08002-10
FEEBRIS1D-4 064-065	15-08002-07	FEEBRIS1D-7 084-085	15-08002-11

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 Modified. Isotopic Thorium was analyzed using Method EML Th-01 Modified. Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

SPECIAL CIRCUMSTANCES

Sample fraction -04 (Client ID: FEEBRIS1D-8 075-076) was muffled prior to sample preparations. Sample fractions -04 and -11 (Client ID: FEEBRIS1D-8 075-076 and FEEBRIS1D-7 084-085) were digested with HF and diluted. Aliquots were removed from dilutions for chemical preparations. All results are reported on a "dry weight" basis.

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ANALYTICAL RESULTS CONTINUED

ISOTOPIC URANIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Uranium was selectively extracted by ion exchange. Uranium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Uranium-234, Uranium-235 and Uranium-238. Chemical recovery was determined by the use of a Uranium-232 tracer. Activity of the Uranium-232 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Uranium analyses. Chemical recovery was low for the method blank. Chemical recovery was acceptable for all other analyses. The Uranium-234, Uranium-235 and Uranium-238 method blank demonstrated acceptable results. Results for the Uranium-234, Uranium-235 and Uranium-238 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Uranium-234 and Uranium-238 laboratory control sample demonstrated an acceptable percent recovery.

ISOTOPIC THORIUM

Samples were prepared by mixed acid digestions and dilutions as appropriate. Aliquots were taken from dilutions and Thorium was selectively extracted by ion exchange. Thorium was eluted, micro-precipitated and mounted on micro-porous filter media. Sample activities were then determined by alpha spectroscopy using energy specific regions of interest for Thorium-227, Thorium-230 and Thorium-232. Chemical recovery was determined by the use of a Thorium-229 tracer. Activity of the Thorium-229 tracer was determined by alpha spectroscopy using an energy specific region of interest.

Samples demonstrated acceptable results for all Thorium analyses. Actinium-227 results were reported from Thorium-227 assuming secular equilibrium. All Thorium results for sample fractions -08 and -11 (Client IDs: FEEBRIS1D-20 080-081 & FEEBRIS1D-7 084-085) demonstrated slightly high detection limits. Chemical recovery was acceptable for all samples. The Thorium-227, Thorium-230 and Thorium-232 method blank demonstrated acceptable results. Results for the Thorium-230 duplicate demonstrated a high relative percent difference; however, normalized difference is within acceptable limits for the analytical technique. Results for the Thorium-232 duplicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Thorium-230 and Thorium-232 laboratory control sample demonstrated an acceptable percent recovery.

GAMMA SPECTROSCOPY

Samples were dried, homogenized and placed into appropriate gamma spectroscopy geometry containers. Samples were then sealed for 21 days to allow for ingrowth of Radon-222 and progeny. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors. Energy lines from Lead-214 and Bismuth-214 were analyzed for determinations of Radium-226 activity.

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. The method blank demonstrated acceptable results for all radionuclides as reported. Results for the Bismuth-214, Potassium-40 and Lead-214 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 9/2/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

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SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cobalt-60	LANL ER-130 Modified	1.37E+02	5.48E+00				pCi/g
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cesium-137	LANL ER-130 Modified	8.69E+01	3.48E+00				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cobalt-60	LANL ER-130 Modified	1.33E+02	9.19E+00	1.15E+01	1.47E+00	1.75E+00	pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Cesium-137	LANL ER-130 Modified	8.51E+01	8.25E+00	9.33E+00	2.67E+00	1.32E+00	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	-1.94E-02	1.44E-01	1.44E-01	2.31E-01	9.75E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	4.77E-02	8.26E-02	8.26E-02	1.51E-01	6.81E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	-2.13E-01	3.70E-01	3.70E-01	3.92E-01	1.24E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-3.96E-01	1.18E+00	1.18E+00	1.76E+00	8.06E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.95E-01	3.31E-01	3.32E-01	5.52E-01	2.65E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	5.06E-02	6.04E-02	6.04E-02	1.04E-01	4.89E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	1.45E-03	7.97E-02	7.97E-02	1.29E-01	5.95E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	4.77E-02	8.26E-02	8.26E-02	1.51E-01	6.25E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	-1.94E-02	1.44E-01	1.44E-01	2.31E-01	9.75E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.25E-01	3.99E-01	4.00E-01	6.49E-01	3.10E-01	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	-1.57E-02	1.01E-01	1.01E-01	1.67E-01	7.29E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	9.43E-01	2.64E-01	2.68E-01	4.96E-01	2.32E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	4.54E+00	4.11E-01	4.73E-01	4.05E-01	1.95E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.07E+01	1.81E+00	1.89E+00	1.46E+00	6.70E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	9.77E-01	2.20E+00	2.20E+00	3.69E+00	1.76E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.44E+00	2.65E+00	2.66E+00	4.36E+00	2.14E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	7.87E-01	1.46E-01	1.51E-01	3.18E-01	1.56E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	4.91E+00	4.13E-01	4.84E-01	3.74E-01	1.81E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	4.54E+00	4.11E-01	4.73E-01	4.05E-01	1.65E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	9.43E-01	2.64E-01	2.68E-01	4.96E-01	2.32E-01	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.60E+00	2.08E+00	2.09E+00	3.45E+00	1.69E+00	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	6.46E-01	1.58E-01	1.62E-01	1.79E-01	1.99E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

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Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	8.91E-01	2.63E-01	2.67E-01	5.15E-01	2.42E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	4.37E+00	3.93E-01	4.53E-01	3.17E-01	1.52E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	9.44E+00	1.82E+00	1.88E+00	1.86E+00	8.70E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-2.58E-01	2.05E+00	2.05E+00	3.32E+00	1.58E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.10E+00	2.16E+00	2.16E+00	3.51E+00	1.71E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	9.99E-01	1.67E-01	1.75E-01	3.13E-01	1.53E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	4.96E+00	4.07E-01	4.80E-01	3.75E-01	1.82E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	4.37E+00	3.93E-01	4.53E-01	3.17E-01	1.77E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	8.91E-01	2.63E-01	2.67E-01	5.15E-01	2.42E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.10E+00	2.18E+00	2.18E+00	2.87E+00	1.40E+00	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	8.60E-01	2.01E-01	2.06E-01	1.79E-01	2.55E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	6.85E-01	1.80E-01	1.84E-01	3.58E-01	1.71E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	5.07E-01	9.60E-02	9.95E-02	1.33E-01	6.29E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.56E+01	2.00E+00	2.15E+00	6.90E-01	3.14E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-3.20E-01	6.56E-01	6.56E-01	1.62E+00	7.66E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	2.94E+00	1.57E+00	1.57E+00	2.48E+00	1.21E+00	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	6.14E-01	9.78E-02	1.03E-01	1.68E-01	8.23E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	6.57E-01	1.02E-01	1.07E-01	1.59E-01	7.66E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	5.07E-01	9.60E-02	9.95E-02	1.33E-01	6.86E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	6.85E-01	1.80E-01	1.84E-01	3.58E-01	1.71E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.09E+00	6.54E-01	6.57E-01	1.08E+00	5.20E-01	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	5.26E-01	1.04E-01	1.07E-01	9.89E-02	1.01E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	1.15E+00	2.63E-01	2.69E-01	4.96E-01	2.35E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	1.25E+00	1.87E-01	1.98E-01	2.05E-01	9.70E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.93E+01	2.36E+00	2.56E+00	9.09E-01	4.03E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	4.16E-01	1.05E+00	1.05E+00	3.27E+00	1.57E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	3.26E+00	2.12E+00	2.13E+00	3.47E+00	1.71E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.35E+00	1.61E-01	1.76E-01	2.55E-01	1.25E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	1.23E+00	1.67E-01	1.79E-01	2.72E-01	1.32E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	1.25E+00	1.87E-01	1.98E-01	2.05E-01	1.31E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	1.15E+00	2.63E-01	2.69E-01	4.96E-01	2.35E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.19E+00	2.12E+00	2.12E+00	3.53E+00	1.74E+00	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	9.71E-01	1.92E-01	1.98E-01	1.93E-01	1.87E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

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Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	6.99E-01	1.72E-01	1.75E-01	3.23E-01	1.53E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	8.59E-01	1.48E-01	1.55E-01	2.13E-01	1.03E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.49E+01	1.96E+00	2.10E+00	1.08E+00	5.08E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-2.56E-01	7.23E-01	7.23E-01	1.86E+00	8.80E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	1.37E+00	1.49E+00	1.50E+00	2.48E+00	1.21E+00	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	6.84E-01	1.09E-01	1.14E-01	1.81E-01	8.85E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	8.20E-01	1.20E-01	1.27E-01	2.16E-01	1.05E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	8.59E-01	1.48E-01	1.55E-01	2.13E-01	7.72E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	6.99E-01	1.72E-01	1.75E-01	3.23E-01	1.53E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.50E+00	7.22E-01	7.27E-01	1.21E+00	5.86E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	5.47E-01	1.04E-01	1.08E-01	1.35E-01	1.42E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	8.10E-02	9.61E-02	9.62E-02	1.69E-01	7.69E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	7.14E-01	9.14E-02	9.85E-02	4.31E-02	9.88E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.72E+00	4.93E-01	5.01E-01	5.44E-01	2.44E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	3.89E-01	7.52E-01	7.52E-01	1.30E+00	6.10E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	9.23E-01	6.41E-01	6.43E-01	1.53E+00	7.44E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.43E-01	4.77E-02	4.83E-02	1.20E-01	5.85E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	6.81E-01	1.00E-01	1.06E-01	1.38E-01	6.64E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	7.14E-01	9.14E-02	9.85E-02	4.31E-02	7.55E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	8.10E-02	9.61E-02	9.62E-02	1.69E-01	7.69E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	2.10E+00	7.72E-01	7.80E-01	1.16E+00	5.65E-01	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	9.86E-02	6.12E-02	6.14E-02	1.09E-01	7.53E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	5.29E-02	1.53E-01	1.53E-01	2.57E-01	1.17E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	8.35E-01	1.27E-01	1.34E-01	1.23E-01	5.66E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.97E+00	7.75E-01	7.82E-01	1.04E+00	4.74E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	8.25E-01	1.25E+00	1.25E+00	2.00E+00	9.45E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	1.86E+00	1.19E+00	1.20E+00	1.64E+00	7.93E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.90E-01	6.67E-02	6.74E-02	1.67E-01	8.12E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	8.35E-01	1.16E-01	1.24E-01	1.68E-01	8.00E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	8.35E-01	1.27E-01	1.34E-01	1.23E-01	9.09E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	5.29E-02	1.53E-01	1.53E-01	2.57E-01	1.17E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.87E+00	1.01E+00	1.01E+00	1.42E+00	6.91E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	8.43E-02	1.23E-01	1.23E-01	2.07E-01	9.61E-02	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

00019

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	1.15E+00	2.26E-01	2.34E-01	4.23E-01	2.00E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	1.33E+00	1.77E-01	1.90E-01	2.23E-01	1.07E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	1.95E+01	2.51E+00	2.71E+00	7.60E-01	3.39E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-1.53E+00	2.17E+00	2.17E+00	2.53E+00	1.20E+00	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	2.65E+00	2.20E+00	2.21E+00	3.63E+00	1.78E+00	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	1.24E+00	1.66E-01	1.78E-01	2.64E-01	1.29E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	1.27E+00	1.68E-01	1.80E-01	2.21E-01	1.06E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	1.33E+00	1.77E-01	1.90E-01	2.23E-01	1.44E+00	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	1.15E+00	2.26E-01	2.34E-01	4.23E-01	2.00E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	1.79E+00	9.26E-01	9.31E-01	1.54E+00	7.46E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	9.94E-01	1.67E-01	1.75E-01	1.64E-01	1.77E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Actinium-228	LANL ER-130 Modified	3.18E+01	9.30E+00	9.45E+00	1.67E+01	8.29E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Bismuth-214	LANL ER-130 Modified	3.63E+03	1.55E+02	2.42E+02	1.17E+01	5.85E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Potassium-40	LANL ER-130 Modified	2.79E+01	2.52E+01	2.53E+01	4.20E+01	2.08E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Protactinium-231	LANL ER-130 Modified	-2.63E+02	1.29E+02	1.30E+02	1.55E+02	7.74E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Lead-210	LANL ER-130 Modified	5.58E+02	1.04E+02	1.07E+02	1.42E+02	7.10E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Lead-212	LANL ER-130 Modified	-1.08E+03	9.53E+01	1.10E+02	9.09E+00	4.54E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Lead-214	LANL ER-130 Modified	3.94E+03	2.51E+02	3.23E+02	1.83E+01	9.16E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Radium-226	LANL ER-130 Modified	3.63E+03	1.55E+02	2.42E+02	1.17E+01	1.05E+02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Radium-228	LANL ER-130 Modified	3.18E+01	9.30E+00	9.45E+00	1.67E+01	8.29E+00	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Thorium-234	LANL ER-130 Modified	8.23E+00	3.63E+01	3.63E+01	5.29E+01	2.64E+01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/25/2015	15-08002	Thallium-208	LANL ER-130 Modified	1.40E+00	4.14E+00	4.14E+00	3.24E+00	5.91E+00	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	-1.37E-02	3.54E-02	3.55E-02	1.19E-01	3.00E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.93E-02	4.19E-02	4.19E-02	8.26E-02	1.10E-02	pCi/g
15-08002-04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.88E-01	1.47E-01	1.49E-01	1.45E-01	1.94E-02	pCi/g
15-08002-05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	7.36E-02	8.47E-02	8.52E-02	1.11E-01	1.24E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.81E-01	1.63E-01	1.64E-01	1.73E-01	1.94E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	6.04E-02	6.76E-02	6.80E-02	9.95E-02	1.83E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.08E-01	1.70E-01	1.71E-01	2.88E-01	3.47E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.40E-01	1.34E-01	1.35E-01	1.70E-01	3.51E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	2.41E-01	1.69E-01	1.71E-01	1.33E-01	1.17E-02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/14/2015	15-08002	Actinium-227	EML Th-01 Modified	1.03E+02	3.59E+01	3.81E+01	1.55E+01	2.65E+00	pCi/g

0020

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	5.37E+00	1.45E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	6.46E+00	1.08E+00	1.34E+00	7.13E-02	8.91E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	7.42E-02	6.86E-02	6.93E-02	6.41E-02	7.99E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	3.83E-01	1.59E-01	1.66E-01	5.96E-02	7.44E-02	pCi/g
15-08002-04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	3.54E+00	8.22E-01	9.31E-01	1.50E-01	1.26E-01	pCi/g
15-08002-05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	9.93E-01	3.42E-01	3.64E-01	1.16E-01	1.18E-01	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.84E+00	5.78E-01	6.21E-01	1.81E-01	1.84E-01	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	7.73E-01	2.33E-01	2.52E-01	1.11E-01	8.97E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.36E+00	5.67E-01	5.91E-01	2.71E-01	2.28E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.43E+00	4.76E-01	5.08E-01	1.36E-01	1.38E-01	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.43E+00	4.52E-01	4.86E-01	1.13E-01	1.41E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/14/2015	15-08002	Thorium-230	EML Th-01 Modified	1.67E+04	2.75E+03	3.44E+03	2.30E+01	2.09E+01	pCi/g
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	4.87E+00	1.75E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	4.89E+00	8.61E-01	9.63E-01	8.95E-02	1.05E-02	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	4.34E-02	5.28E-02	5.29E-02	6.40E-02	4.17E-03	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	7.48E-01	2.38E-01	2.47E-01	7.48E-02	8.73E-03	pCi/g
15-08002-04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	2.38E-01	1.61E-01	1.62E-01	1.31E-01	1.53E-02	pCi/g
15-08002-05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	5.95E-01	2.49E-01	2.54E-01	1.23E-01	2.12E-03	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.47E+00	4.98E-01	5.14E-01	1.54E-01	1.42E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	6.61E-01	2.14E-01	2.22E-01	1.23E-01	3.56E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	3.76E-01	2.83E-01	2.85E-01	2.80E-01	3.51E-02	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.41E-01	1.20E-01	1.20E-01	1.01E-01	6.58E-03	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.20E+00	4.07E-01	4.20E-01	1.53E-01	2.11E-02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/14/2015	15-08002	Thorium-232	EML Th-01 Modified	1.78E+02	5.07E+01	5.31E+01	2.26E+01	8.73E+00	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

00021

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:
SDG: 15-08002
Purchase Order: ENG/BOR.1D
Analysis Category: ENVIRONMENTAL
Sample Matrix: SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	5.24E+00	1.88E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	5.02E+00	7.26E-01	8.10E-01	5.91E-02	5.48E-03	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	1.03E-01	2.49E-01	2.49E-01	5.18E-01	3.37E-02	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	7.01E-02	4.40E-01	4.40E-01	1.06E+00	2.44E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	6.59E-01	4.73E-01	4.76E-01	3.51E-01	2.29E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	8.99E-01	5.16E-01	5.20E-01	3.40E-01	3.14E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	2.83E+00	1.24E+00	1.26E+00	6.25E-01	5.77E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	1.42E+00	6.08E-01	6.17E-01	3.43E-01	4.75E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	1.92E+00	8.16E-01	8.28E-01	5.58E-01	1.28E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	2.10E+00	7.75E-01	7.89E-01	2.75E-01	1.80E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	3.36E+00	1.53E+00	1.55E+00	8.61E-01	1.00E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/17/2015	15-08002	Uranium-234	EML U-02 Modified	3.73E+02	1.65E+02	1.67E+02	8.70E+01	9.89E+00	pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	5.16E-01	1.83E-01	1.87E-01	6.37E-02	2.94E-03	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	0.00E+00	4.25E-01	4.25E-01	9.18E-01	8.32E-03	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	-9.39E-02	3.76E-01	3.76E-01	9.66E-01	8.61E-02	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	2.59E-01	3.59E-01	3.59E-01	5.45E-01	4.84E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	2.48E-01	3.01E-01	3.01E-01	3.66E-01	1.68E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	3.23E-01	5.49E-01	5.49E-01	9.67E-01	8.77E-03	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	3.75E-01	3.63E-01	3.64E-01	4.50E-01	4.09E-03	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	1.40E-01	4.00E-01	4.00E-01	8.12E-01	2.05E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	4.75E-01	3.96E-01	3.97E-01	3.40E-01	1.56E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	3.36E-01	5.71E-01	5.71E-01	9.68E-01	6.68E-02	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/17/2015	15-08002	Uranium-235	EML U-02 Modified	4.09E+01	6.97E+01	6.97E+01	1.23E+02	1.09E+00	pCi/g

22000

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

Eberline Analytical
Final Report of Analysis

Report To:
Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill St, Suite 1
Knoxville, TN 37932

Work Order Details:

SDG:	15-08002
Purchase Order:	ENG/BOR.1D
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	SO

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
15-08002-01	LCS	KNOWN	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	5.10E+00	1.84E-01				pCi/g
15-08002-01	LCS	SPIKE	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	5.46E+00	7.75E-01	8.68E-01	5.89E-02	5.09E-03	pCi/g
15-08002-02	MBL	BLANK	08/03/15 00:00	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	1.24E-01	3.45E-01	3.45E-01	7.41E-01	8.81E-03	pCi/g
15-08002-03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	3.64E-01	6.81E-01	6.81E-01	1.25E+00	3.91E-01	pCi/g
15-08002-04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	5.85E-01	4.74E-01	4.76E-01	5.28E-01	9.15E-02	pCi/g
15-08002-05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	8.25E-01	4.93E-01	4.96E-01	3.38E-01	2.91E-02	pCi/g
15-08002-06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	2.78E+00	1.24E+00	1.25E+00	7.34E-01	9.79E-02	pCi/g
15-08002-07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	1.78E+00	6.84E-01	6.96E-01	3.18E-01	3.53E-02	pCi/g
15-08002-08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	9.34E-01	5.89E-01	5.93E-01	6.09E-01	1.65E-01	pCi/g
15-08002-09	TRG	DUPLICATE 5	07/30/15 09:57	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	1.04E+00	5.31E-01	5.36E-01	2.74E-01	1.59E-02	pCi/g
15-08002-10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	3.98E+00	1.68E+00	1.70E+00	9.22E-01	1.23E-01	pCi/g
15-08002-11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	8/3/2015	8/17/2015	15-08002	Uranium-238	EML U-02 Modified	2.23E+02	1.25E+02	1.26E+02	8.66E+01	9.38E+00	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value

32002

SECTION V

ANALYTICAL STANDARD

QA/QC REVIEWED
Date 1/16/95 Initials MC

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

U-8

Radionuclide:	U-238NAT	Customer:	TMA EBERLINE
Half Life:	(4.468 ± 0.005) x 10^9 years	P.O.No.:	OR2778
Catalog No.:	7338	Reference Date:	January 1 1995 12:00 PST.
Source No.:	479-50	Contained Radioactivity:	(Total U) 8.016 μCi
		Contained Radioactivity:	(Total U) 297 kBq

Description of Solution

a. Mass of solution: 65.2896 g in a 50 ml flame sealed ampoule
b. Chemical form: Uranyl Nitrate in H2O
c. Carrier content: None
d. Density: Approximately 1.3202 g/ml @ 20°C.

Radioimpurities: Refer to attached technical data sheet

Radioactive Daughters: Refer to attached technical data sheet

Radionuclide Concentration

(Total U) 0.1228 μCi/g.

Method of Calibration

Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration: ±3.0%
b. Random uncertainty in assay: ±0.0%
c. Random uncertainty in weighing(s): ±2.0%
d. Total uncertainty at the 99% confidence level: ±3.6%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)

See reverse side for Leak Test(s) applied to this source.

Notes

1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

ERIC, ERIC ALLAS
QUALITY CONTROL

29 DECEMBER 1994
Date Signed

ISOTOPE PRODUCTS LABORATORIES
3017 N. SAN FERNANDO BLVD.
BURBANK, CALIFORNIA 91504
818·843·7000 FAX 818·843·6168

00025

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 479-50 SOLUTION #: U-8

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide: $^{234, 235, 238}U$ Reference Date: 1/1/1995 0:00

Certified Activity: 8.016E+00 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	97.6400	Weight, Grams
Empty Ampoule	32.5020	Weight, Grams
Solution Net	65.1380	Weight, Grams
Total Activity in Ampoule	8.0160	µCi

Chemical Composition of Standard Solution

Uranyl nitrate in dilute HNO_3

Dilution Instructions: Dilution Solvent Used: 1M HNO_3

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 8.0160 µCi Which Equals 1.780E+07 dpm at the date listed above

And after dilution the activity of this solution is 1.77955E+04 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00026

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009		
Solution Reference #	IPL 479-50	Date	9/2/2014 0:00
		Solution #	U-8a

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{234, 235, 238}U$	4.468E+09	1.632E+12

Radionuclide of Interest	$^{234, 235, 238}U$	Reference Date	1/1/1995 0:00
Parent Solution Conc.	1.7796E+04 dpm/ml		

Chemical Composition of Standard Solution
Uranly Nitrate in 1M HNO_3

Dilution Instructions:

Dilution Solvent Used 1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	4.0000	ml
Total Activity:	7.1182E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 7.1182E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Isotopic Distribution as:
U-238 Atom % = 48.239 U-238 = 71.182 dpm/ml X 0.48249 = 34.345 dpm/ml
U-235 Atom % = 2.25 U-235 = 71.182 dpm/ml X 0.0225 = 1.602 dpm/ml
U-234 Atom % = 49.501 U-238 = 71.182 dpm/ml X 0.49501 = 35.236 dpm/ml
All values +/- 3.6%

Isotopic ratios from manufacturer's data sheet

Expiration Date: July 30, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00027

RECORD COPY

Tracer Solution for Environmental Analysis & Disequilibrium Studies

Product Description & Measurement Certificate

Description	Principal radionuclide:	**uranium 232** (U-232)	Product code: **UDP10050**
	Daughter Nuclide:	Th-228	Batch Number: 92/232/67
Measurement	Reference date:		01 March 2000
	Radioactive concentration U-232		6.739E+03 becquerels per gram of solution
	which is equivalent to		1.821E-01 microcuries per gram of solution
	Mass of solution		5.356 grams
	Volume of solution		5.035 millilitres
	Total activity of U-232		3.61E+04 becquerels
	which is equivalent to		9.76E-01 microcuries

Method of measurement (see reverse of this certificate)

Accuracy Random uncertainty is: ± 0.7% Systematic uncertainty: ± 0.5%
Overall uncertainty in the radioactive concentration quoted above: ± 1.7%
Overall uncertainty is defined on the reverse of this certificate.

Radionuclidic Purity Any radioactive impurities measured are listed below, expressed as percentages of the activity of the principle radionuclide at the reference date .

Th-228 and daughter activity removed 2 Feb 2000
U-232 daughters activity will increase with time. By alpha 88% U-232, 12% daughters on 1/3/00

Isotopic Purity The isotopic composition, expressed as atom per cent at the reference date .

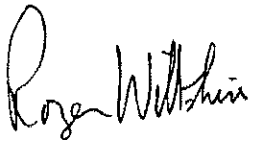
Not measured

Chemical Composition Calculated weight of U-232, 4.42E-08 grams, as 2M HNO3 solution in a flame sealed glass vial.
This Tracer solution has been produced 'carrier free'.

Physical Data Recommended half life of uranium 232: 6.980E+01 years
Principle energies of alpha emissions (MeV): 5.263 31.7%, 5.320 68.0%
Branching ratio for alpha emission: 100%
Calculated specific activity of uranium 232: 8.167E+05 Bq per microgram U-232.

Remarks For safety information and notes to ensure correct usage by all persons handling this radioactive Tracer solution please read the instructions accompanying the package.

AEA Technology operates a quality management system which has been independently audited and approved to ISO 9001.

Approved Signatory 

Project Ref. AE2315

Roger Wiltshire

Prepared and characterised in the UK, for world wide distribution by **Isotrak, AEA Technology, QSA.**

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AEA Technology is the trading name of AEA Technology plc

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 11/01/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE 11/11/2014 0:00

SOLUTION REFERENCE # AEA/Amersham 92/232/67 **SOLUTION #** U-10

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide ^{232}U
Certified Activity 9.760E-01 µCi
Certified Concentration µCi per gram

Reference Date 3/1/2000 0:00

Ampoule /Solution Gross Weight, Grams
Empty Ampoule Weight, Grams
Solution Net Weight, Grams
Total Activity in Ampoule 0.9760 µCi

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions:

Dilution Solvent Used 2M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 0.9760 µCi **Which Equals** 2.167E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.167E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

00029

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.8; 11/01/03
Title: **Radioactive Reference Standards Solutions & Records**

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	11/11/2014 0:00
Solution Reference #	AEA/Amersham 92/232/67	Solution #	U-10a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}U	7.200E+01	2.630E+04

Radionuclide of Interest	^{232}U	Reference Date	3/1/2000 0:00
Parent Solution Conc.	2.167E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{232}U(NO_3)_6$ in 2M HNO_3

Dilution Instructions: **Dilution Solvent Used** 2M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000	ml
Total Activity:	2.1670E+04	dpm
Final Volume:	1000.00	ml

Final Activity Concentration: 2.1670E+01 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: November 4, 2015

Verified & Approved By _____ Date: 11/11/2014 0:00

QC Approval _____ Date: 11/13/14

00030

QA/QC REVIEWED
Date 10/14/91 Initials WT 10/14/91 WT

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Received
OCT 14 1991
TMA/Eberline
Oak Ridge Lab

Radionuclide	Th-230	Customer:	TMA EBERLINE
Half Life:	(7.54 ± 0.03) x 10^4 years	P.O.No.:	TT4944
Catalog No.:	7230	Reference Date:	November 1 1991 12:00 PST.
Source No.:	388-116	Contained Radioactivity:	1.036 µCi.

Description of Solution

a. Mass of solution:	5.0042	grams.
b. Chemical form:	Th(NO3)4 in 0.1N HNO3	
c. Carrier content:	None added	
d. Density:	1.0016	gram/ml @ 20°C.

Radioimpurities

See attached technical data sheet

Radioactive Daughters

See attached technical data sheet

Radionuclide Concentration

0.207 µCi/gram.

Method of Calibration

Weighed aliquots of the solution were assayed using a liquid scintillation counter.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±2.0%
b. Random uncertainty in assay:	±0.5%
c. Random uncertainty in weighing(s):	±0.2%
d. Total uncertainty at the 99% confidence level:	±2.7%

NIST Traceability

This calibration is implicitly traceable to the National Institute of Standards and Technology.

Notes

1. Nuclear data were taken from "Table of Isotopes", Seventh Edition, edited by Virginia S. Shirley.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay(and later NIST certification) of Standard Reference Materials. (As in NRC Regulatory Guide 4.15)

QUALITY CONTROL

ISOTOPE PRODUCTS LABORATORIES
1800 No. Keystone Street.,
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

		CURRENT DATE	4/15/2015 0:00
SOLUTION REFERENCE #	IPL 388-116	SOLUTION #	Th-1

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide	^{230}Thorium	Reference Date	11/1/1991 0:00
Certified Activity	1.036E+00	µCi	
Certified Concentration		µCi per gram	

Ampoule /Solution Gross	9.2660	Weight, Grams
Empty Ampoule	4.6218	Weight, Grams
Solution Net	4.6442	Weight, Grams
Total Activity in Ampoule	1.0360	µCi

Chemical Composition of Standard Solution

$^{230}Th(NO_3)_4$ in 0.1N HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1N HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0360 µCi **Which Equals** 2.300E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.300E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

EBERLINE SERVICES | QUALITY CONTROL PROGRAM
MP-009

Rev.14; 10/10/2012
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	4/15/2015 0:00
Solution Reference #	IPL 388-116	Solution #	Th-1b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{230}Th	7.540E+04	2.754E+07

Radionuclide of Interest	^{230}Thorium	Reference Date	11/1/1991 0:00
Parent Solution Conc.	2.30E+03 dpm/ml		

Chemical Composition of Standard Solution
$^{230}Th(NO_3)_4$ In 0.1N HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1N HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	10.0000 ml		
Total Activity:	2.2999E+04 dpm	Final Activity Concentration:	2.2999E+01 dpm/ml
Final Volume:	1000.00 ml		

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: February 12, 2016

Recertified By _____ Date: 4/15/2015 0:00

QC Approval _____ Date: 4/15/15

Th-8

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-232	Customer:	TMA EBERLINE
Half Life:	(1.405 ± 0.006) x 10^10 years	P.O.No.:	VH1632
Catalog No.:	7232	Reference Date:	November 1 1993 12:00 PST.
Source No.:	435-104-2	Contained Radioactivity:	(Th-232) 0.0933 μCi.
		Contained Radioactivity:	(Th-232) 3.45 kBq.

Description of Solution

a. Mass of solution:	11.9712 g (in a 10 ml flame sealed ampoule)	
b. Chemical form:	Th(NO3)4 in water	
c. Carrier content:	None added	
d. Density:	Approx. 1.21	g/ml @ 20°C.

Radioimpurities: None detected (other than daughters).

Radioactive Daughters
Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208

Radionuclide Concentration
(Th-232) 0.00779 μCi/g.

Method of Calibration
Activity calculations are based upon known specific activity and mass.

Uncertainty of Measurement

a. Systematic uncertainty in instrument calibration:	±3.0%
b. Random uncertainty in assay:	±0.0%
c. Random uncertainty in weighing(s):	±2.0%
d. Total uncertainty at the 99% confidence level:	±3.6%

NIST Traceability
This calibration is implicitly traceable to the National Institute of Standards and Technology.

Leak Test(s)
See reverse side for Leak Test(s) applied to this source.

Notes
1. Nuclear data were taken from "Table of Radioactive Isotopes", edited by Virginia S. Shirley, 1986.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).

Anna U. Khan
QUALITY CONTROL

Nov. 8, 1993
Date Signed

ISOTOPE PRODUCTS LABORATORIES
1800 North Keystone Street
Burbank, California 91504
(818) 843 - 7000

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

CURRENT DATE: 9/2/2014 0:00

SOLUTION REFERENCE #: IPL 435-104-2 SOLUTION #: Th-8

Principal Radionuclide	Half Life, Years	Half Life, Days
^{232}Th, ^{228}Th	1.405E+10	5.132E+12

Radionuclide: $^{232\ \&\ 228}Th$ Reference Date: 11/1/1993 0:00

Certified Activity: 9.330E-02 µCi

Certified Concentration: µCi per gram

Ampoule /Solution Gross	18.8415	Weight, Grams
Empty Ampoule	6.9296	Weight, Grams
Solution Net	11.9119	Weight, Grams
Total Activity in Ampoule	0.0933	µCi

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in H2O

Dilution Instructions: Dilution Solvent Used: 1% Nitric Acid

Dilute to a volume of 1000.00 milliliters

Certified Total Activity of 0.0933 µCi Which Equals 2.071E+05 dpm at the date listed above

And after dilution the activity of this solution is 2.071E+02 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00035

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev 8; 1/10/03

Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

MP-009

Solution Reference #: IPL 435-104-2 **Date:** 9/2/2014 0:00

Solution #: Th-8b

Principal Radionuclide	Half Life, Years	Half Life, Days
$^{228\ \&\ 232}Th$	1.405E+10	5.132E+12

Radionuclide of Interest: $^{228\ \&\ 232}Th$

Parent Solution Conc.: 2.07E+02 dpm/ml

Reference Date: 11/1/1993 0:00

Chemical Composition of Standard Solution

$Th(NO_3)_4$ in 1% HNO_3

Dilution Instructions:

Dilution Solvent Used: 1% Nitric Acid

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 500.0000 ml

Total Activity: 1.0355E+05 dpm

Final Volume: 1000.00 ml

Final Activity Concentration: 1.0355E+02 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00036

Th-18

Isotope Products Laboratories
An Eckert & Ziegler Company

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
ALPHA STANDARD SOLUTION

Radionuclide:	Th-229	**Customer:**	EBERLINE SERVICES
Half-life:	7340 ± 160 years	**P.O. No.:**	00009633
Catalog No.:	7229	**Reference Date:**	15-Jan-02 12:00 PST
Source No.:	867-54	**Contained Radioactivity: (Th-229 only)**	1.013 µCi 37.48 kBq

Physical Description:

A.	Mass of solution:	5.0147 g in 5 mL flame-sealed ampoule
B.	Chemical form:	$Th(NO_3)_4$ in 0.1M HNO_3
C.	Carrier content:	10µg Th/mL
D.	Density:	1.0016 g/mL @ 20°C.

Radioimpurities:

None detected (daughters in equilibrium)

Radionuclide Concentration: 0.2020 µCi/g, 7.474 kBq/g

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using gamma ray spectrometry.

Peak energy used for integration:	193.5 keV
Branching ratio used:	0.0441 gammas per decay

Uncertainty of Measurement:

A.	Type A (random) uncertainty:	± 0.7 %
B.	Type B (systematic) uncertainty:	± 3.0 %
C.	Uncertainty in aliquot weighing:	± 0.0 %
D.	Total uncertainty at the 99% confidence level:	± 3.1 %

Notes:

- See reverse side for leak test(s) performed on this source.
- IPL participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (As in NRC Regulatory Guide 4.15).
- Nuclear data was taken from IAEA Technical Report Series No. 261.
- This solution has a working life of 5 years.

Quality Control

9-Jan-02
Date Signed

IPL Ref. No.: 867-54

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

MP-009

Rev.8; 1/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
MP 009

		CURRENT DATE	9/2/2014 0:00
SOLUTION REFERENCE #	IPL 867-54	SOLUTION #	Th-18

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide	^{229}Th	Reference Date	1/15/2002 0:00
Certified Activity	1.013E+00	µCi	
Certified Concentration		µCi per gram	

Ampoule /Solution Gross	8.7752	Weight, Grams
Empty Ampoule	3.7591	Weight, Grams
Solution Net	5.0161	Weight, Grams
Total Activity in Ampoule	1.0130	µCi

Chemical Composition of Standard Solution

$^{229}Th(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions: **Dilution Solvent Used** 0.1 M HNO_3

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 1.0130 µCi **Which Equals** 2.249E+06 **dpm at the date listed above**

And after dilution the activity of this solution is 2.249E+03 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

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EBERLINE SERVICES

QUALITY CONTROL PROGRAM
MP-009

Rev.7; 9/29/99
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	MP-009	Date	9/2/2014 0:00
Solution Reference #	IPL 867-54	Solution #	Th-18a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{229}Th	7.340E+03	2.681E+06

Radionuclide of Interest: ^{229}Th
Parent Solution Conc.: 2.25E+03 dpm/ml

Reference Date: 1/15/2002 0:00

Chemical Composition of Standard Solution
$TH(NO_3)_4$ in 0.1M HNO_3

Dilution Instructions:

Dilution Solvent Used: 0.1M HNO_3

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution: 10.0000 ml
Total Activity: 2.2490E+04 dpm
Final Volume: 1000.00 ml

Final Activity Concentration: 2.2490E+01 dpm/ml

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

NOTES:

Expiration Date: August 28, 2015

Verified & Approved By _____ Date: 9/2/2014 0:00

QC Approval _____ Date: 9/3/14

00039

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1402

98503

Sand in 16 Ounce PP Taral Jar Filled to Capacity

Customer: Eberline Analytical Corporation
P.O. No.: OR-1405030, Item 6 Product Code: 8401-EG-SAN
Reference Date: 01-Oct-2014 12:00 PM EST **Grams of Master Source:** 0.017608

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.030E+03	0.1	1.8	3.6	4π LS
Cd-109	88.0	4.614E+02	1.663E+05	2.929E+03	0.5	2.0	4.1	HPGe
Co-57	122.1	2.717E+02	8.913E+04	1.569E+03	0.4	1.7	3.5	HPGe
Ce-139	165.9	1.376E+02	1.241E+05	2.185E+03	0.4	1.7	3.5	HPGe
Hg-203	279.2	4.659E+01	2.675E+05	4.710E+03	0.3	1.7	3.5	HPGe
Sn-113	391.7	1.151E+02	1.796E+05	3.163E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.099E+04	1.111E+05	1.956E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.223E+05	7.435E+03	0.7	1.7	3.7	HPGe
Co-60	1173.2	1.925E+03	2.091E+05	3.683E+03	0.7	1.8	3.9	HPGe
Co-60	1332.5	1.925E+03	2.094E+05	3.687E+03	0.7	1.8	3.9	HPGe
Y-88	1836.1	1.066E+02	4.471E+05	7.872E+03	0.7	1.7	3.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY — HEALTH PHYSICS SOCIETY — FOUNDED 1956

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

00040

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	UUISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
U-234		95.82%	16.14%	100.00%	3.60%	5.24E+00	1.88E-01	5.02E+00	8.10E-01	U-8a	3.52E+01	3.60E+00	3.30E-01
U-238		107.05%	15.88%	100.00%	3.60%	5.10E+00	1.84E-01	5.46E+00	8.68E-01	U-8a	3.44E+01	3.60E+00	3.30E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
U-234	1.78	161.54	6.59E-01	4.76E-01	7.01E-02	4.40E-01
U-238	0.52	46.59	5.85E-01	4.76E-01	3.64E-01	6.81E-01
U-235	1.33	427.95	2.59E-01	3.59E-01	-9.39E-02	3.76E-01

QC Summary

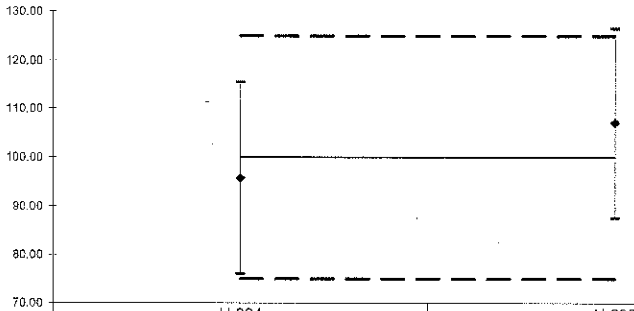
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.96	OK				NA	OK
1.07	OK				NA	OK
	OK				NA	OK

00042

Version

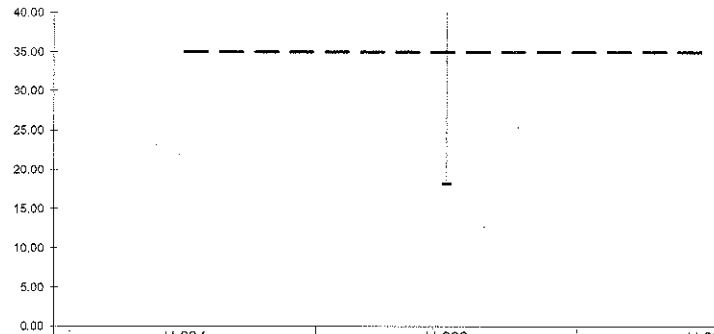
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	UUISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



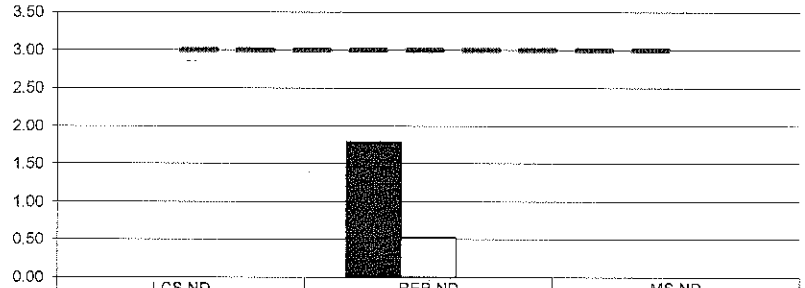
	U-234	U-238
Lower Error	76.08	87.56
Upper Error	115.56	126.53
%R	95.82	107.05
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	U-234	U-238	U-235
Lower Error	262.91	75.00	1383.54
Upper Error	60.16	18.19	-527.63
RPD	161.54	46.59	427.95
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
U-234	0.00	1.78	0.00
U-238	0.00	0.52	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	ThISO	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
TH-228		120.28%	19.41%	100.00%	3.60%	4.87E+00	1.75E-01	5.85E+00	1.14E+00	Th-8b	1.04E+02	3.60E+00	1.04E-01
TH-230		120.22%	20.75%	100.00%	2.70%	5.37E+00	1.45E-01	6.46E+00	1.34E+00	Th-1b	2.35E+01	2.70E+00	5.07E-01
TH-232		100.48%	19.69%	100.00%	3.60%	4.87E+00	1.75E-01	4.89E+00	9.63E-01	Th-8b	1.04E+02	3.60E+00	1.04E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
TH-228	2.67	79.33	3.13E-01	1.77E-01	7.25E-01	2.45E-01
TH-230	2.99	88.65	9.93E-01	3.64E-01	3.83E-01	1.66E-01
TH-232	0.85	22.81	5.95E-01	2.54E-01	7.48E-01	2.47E-01

QC Summary

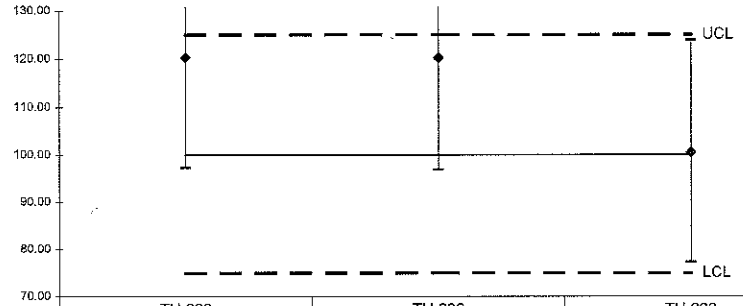
LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
1.20	OK				NA	OK
1.20	OK				INV	OK
1.00	OK				OK	OK

000044

Version

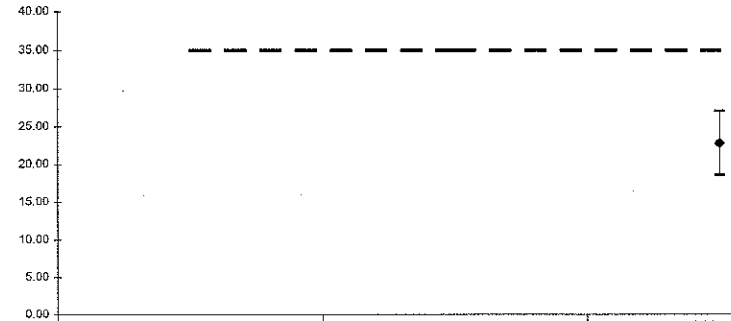
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	ThISO	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



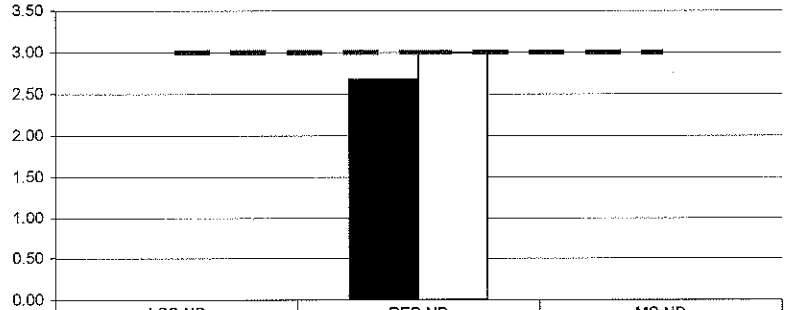
	TH-228	TH-230	TH-232
Lower Error	97.27	96.78	77.19
Upper Error	143.28	143.67	123.77
%R	120.28	120.22	100.48
LCL	75	75	75
Mean	100	100	100
UCL	125	125	125

Replicate Sample RPD



	TH-228	TH-230	TH-232
Lower Error	95.48	105.69	27.07
Upper Error	63.18	71.61	18.55
RPD	79.33	88.65	22.81
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
TH-228	0.00	2.67	0.00
TH-230	0.00	2.99	0.00
UCL	3	3	3

No Matrix Spike

000045

Version

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	Gamma	1	pCi	g	AMO Environmental Decisions

Laboratory Control Sample

Analyte		LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60		97.31%	8.59%	100.00%	4.00%	1.37E+02	5.48E+00	1.33E+02	1.15E+01	GAS-1302	1.37E+02	5.48E+00	7.36E+02
CS-137		97.87%	10.97%	100.00%	4.00%	8.69E+01	3.48E+00	8.51E+01	9.33E+00	GAS-1302	8.69E+01	3.48E+00	7.36E+02

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
BI-214	0.48	3.63	4.37E+00	4.53E-01	4.54E+00	4.73E-01
K-40	0.94	12.72	9.44E+00	1.88E+00	1.07E+01	1.89E+00
PB-214	0.16	1.12	4.96E+00	4.80E-01	4.91E+00	4.84E-01

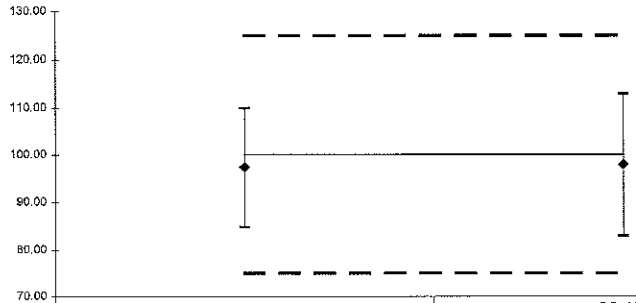
QC Summary

LCS Relative Bias	*LCS % R*		*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.97	OK		<CS-137	BI-214>	NA	
0.98	OK		<CO-60	K-40>	NA	OK
				PB-214>	NA	OK

000046 Version

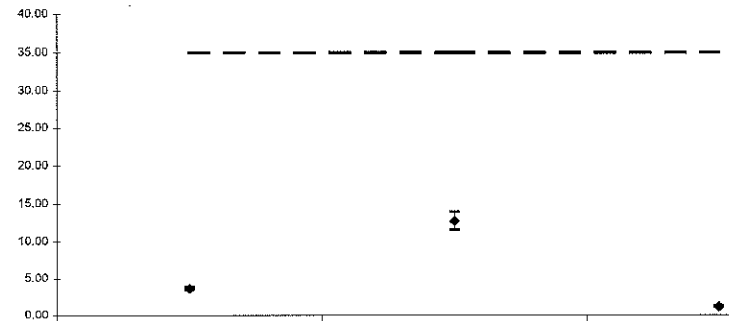
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
15-08002	Gamma	1	pCi	g	AMO Environmental Decisions

LCS % Recovery



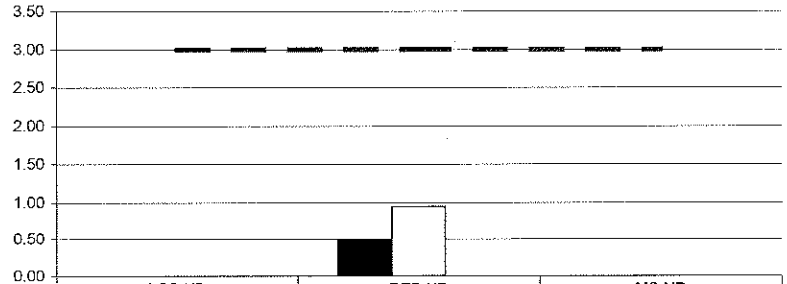
	CO-60	CS-137
Lower Error	84.72	82.89
Upper Error	109.90	112.84
%R	97.31	97.87
LCL	75	75
Mean	100	100
UCL	125	125

Replicate Sample RPD



	Bi-214	K-40	PB-214
Lower Error	3.82	13.90	1.17
Upper Error	3.44	11.53	1.06
RPD	3.63	12.72	1.12
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	0.00	0.48	0.00
CS-137	0.00	0.94	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

SECTION VII

LABORATORY TECHNICIAN'S NOTES & RUN LOGS

ISO U NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled KS

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:13	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS

JWolfe
8/12/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:13	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/14/15 18:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100 ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.

8/14/15

EBERLINE SERVICES

Work Order Analysis Notes

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Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	UUISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:04	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:13	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/14/15 18:34	CHEM	JDEMELAS	Added concentrated HCl to sample beakers and heated to dryness; Added 20 ml 8N HCL to samples and transferred to new, labeled C-Tubes, rinsing with 8N HCl to bring volume to ~35 ml; Preconditioned resin columns with 35 ml 8N HCl; Centrifuged samples and loaded onto columns; Rinsed C-Tubes with 20 ml 8N HCl, centrifuged as needed and loaded onto columns; Rinsed columns with 35 ml 8N HCl – 0.1N NH4I, 35 ml of 6.5N HCl – 0.04N HF, and 10 ml of 6.5N HCl; Eluted Uranium with 50 ml of 0.5N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with DI H2O. Set samples aside for later precipitation and filtering.
4	08/17/15 05:02	CHEM	TSMITH	Followed steps 12.1.7 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Uranium)

8-17-15
JMS

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order: 15-08002

Analysis Code: UUISO

Run: 1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	8/12/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	8/12/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	8/12/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	8/12/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	8/14/2015
016546D01	Hydrochloric Acid	0.5N	JDEMELAS	8/14/2015
016615S	Hydrochloric Acid	6.5N	JDEMELAS	8/14/2015
016663S	Hydrochloric Acid	8N	JDEMELAS	8/14/2015
016232P	Hydrochloric Acid	Reagent Grade	JDEMELAS	8/14/2015
016707S	HCl - NH4I	8N - 0.1M	JDEMELAS	8/14/2015
016662S	HCl - HF	6.5N - 0.04N	JDEMELAS	8/14/2015
016654S	Carbon substrate	Solution	TSMITH	8/17/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	8/17/2015
016111S	Neodymium Carrier	1 mg/ml	TSMITH	8/17/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	8/17/2015
015660P	Titanous Chloride	Reagent Grade	TSMITH	8/17/2015

Alpha #7

Date	Sample #	Client	Field Time	CT Time	Analyst	Hea
8/17/15	1508004A(15-20)	USA	1120	2h-00	Foo-Th	KC
8/17/15	1508002A(1-11)	Amo Env.	1121	2h-00	UU	KC

ISO TH NOTES

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled KS

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:12	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS

JWOLFE 8/12/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:12	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/13/15 18:34	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.

8/13/15

EBERLINE SERVICES

Work Order Analysis Notes

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	15-08002
Analysis Code	ThISO
Run Number	1

#	Date	Dept	User	Notes
1	08/04/15 13:03	PREP	KSALLINGS	#4 muffled
2	08/12/15 06:12	PREP	JWOLFE	ADDED HF TO FRACTIONS 4 AND 11 AND DRIED SAMPLES DOWN- ADDED MIXED ACIDS AND TOOK SAMPLES TO DRYNESS- REDISSOLVED WITH HNO3 AND WATER AND CENTRIFUGED- DILUTED- ALIQUOTED FROM DILUTIONS INTO TRACED BEAKERS AND DRIED SAMPLES DOWN- ALL OTHER FRACTIONS- ALIQUOTED AND ADDED SPIKES AND TRACERS- ADDED HF AND DRIED SAMPLES DOWN- ADDED MIXED ACID AND TOOK SAMPLES TO DRYNESS- SUBMITTED ALL SAMPLES TO SEPARATIONS
3	08/13/15 18:34	CHEM	JDEMELAS	Added concentrated HNO3 to sample beakers and heated to dryness; Added 20 ml 8N HNO3 to samples and transferred to new, labeled C-Tubes, adding 8N HNO3 to bring volume to ~35 ml; Preconditioned resin columns with 50 ml 8N HNO3; Centrifuged samples as needed, and passed through columns; Rinsed C-Tubes with 20 ml 8N HNO3; Centrifuged rinsates and loaded onto columns; Rinsed columns with 40 ml 8N HNO3; Eluted Thorium with 50 ml of 8N HCl into clean, labeled 100-ml beakers; Dried-down samples on hotplate; Dissolved samples in ~10 ml of concentrated HCl; Transferred to new, labeled C-Tubes with deiononized water, bringing volume to ~15ml. Set samples aside for later precipitation and filtering.
4	08/14/15 05:01	CHEM	TSMITH	Followed steps 12.2.4 to 12.4.5 in AP-005 . (Precipitated and filtered samples for Thorium)

8/14/15

EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
15-08002	
Analysis Code	Run
ThISO	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
016253P	Hydrofluoric Acid	Reagent Grade	JWOLFE	8/12/2015
016304P	Nitric Acid	Reagent Grade	JWOLFE	8/12/2015
016158P	Perchloric Acid	Reagent Grade	JWOLFE	8/12/2015
015490P	Sulfuric Acid	Reagent Grade	JWOLFE	8/12/2015
016567P	Anion Exchange Resin	Reagent Grade	JDEMELAS	8/13/2015
016663S	Hydrochloric Acid	8N	JDEMELAS	8/13/2015
016232P	Hydrochloric Acid	Reagent Grade	JDEMELAS	8/13/2015
016660S	Nitric Acid	8N	JDEMELAS	8/13/2015
016403P	Nitric Acid	Reagent Grade	JDEMELAS	8/13/2015
016654S	Carbon substrate	Solution	TSMITH	8/14/2015
016557S	Cerrium Carrier	0.1mg/ml	TSMITH	8/14/2015
016253P	Hydrofluoric Acid	Reagent Grade	TSMITH	8/14/2015
016514P	Reagent Alcohol	Reagent Grade	TSMITH	8/14/2015

Alpha #3

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/12	1508003A(1-8)	USA	0877	2hr	Th Iso	—
8/12/15	1508003A(9-20)	USA	1135	2hr 50	ISO-Th	KB
8/13	Daily Pulse	LAB	0521	"	NA	—
8/13	1507160A(8-14)	~~Analysts~~ Analysts	0824	2hr	Am241	—
8/13	1508003A(1-19)	USA	0825	2hr	UUIso	—
8/13/15	1508003A(20)	USA	1121	2hr 50	ISO-UU	KB
8/13/15	1508006A(1-5)	UCOR	1122	2hr 50	ISO-Th	KB
8/13/15	1507182A(1-11)	AMO ENV.	1123	2hr 50	ISO-Th	KB
8/13/15	1507080B(1-4)	ERA	1124	2hr 50	Rak	KB
8/14	Daily Pulse	LAB	0500	"	NA	—
8/14	SECCAL(37-48)	LAB	0516	2hr	NA	—
8/14	SECCAL(48-60)	LAB	0750	2hr	NA	—
8/14	1508006A(3-5)	UCOR	0822	2hr	Am243	—
8/14	1508004A(1-12)	USA	0822	2hr	UUIso	—
8/14/15	1508004A(12-20)	USA	1024	2hr 50	ISO-UU	KB
8/14/15	1508020A(1-3)	UCOR	1025	2hr 50	Np	KB
8/14/15	1508020A(4)	UCOR	1119	2hr 50	Np	KB
8/14/15	1508002A(1-11)	AMO ENV.	1120	2hr 50	ISO-Th	KB
8/14/15	1508006A(1-2)	UCOR	1121	2hr 50	Th229	KB

GAMMA NOTES

GE 1

DATE	SAMPLE #	Client	Load Time	CT. Time	Analysis	Tech
8/24/15	1508045-07	Accutest	1638	15mins	Ba	KB
8/25	CAT 14	LAB	0527	15	✓	[illegible]
8/25	Dwlyn	LAB	0549	15	✓	[illegible]
8/25	1508007-03	USA	0611	1hr	✓	[illegible]
8/25	1508007-04	USA	0716	1h	✓	[illegible]
8/25	1508007-11	USA	0818	1h	✓	[illegible]
8/25	1508007-15	USA	0920	1h	✓	[illegible]
8/25	1508004-03	USA	1021	1h	✓	[illegible]
8/25	1508004-04	USA	1122	1h	✓	[illegible]
8/25/15	1508004-09	USA	1222	1hr	✓	KB
8/25	1508004-13	USA	1323	1h	✓	[illegible]
8/25/15	1508004-17	USA	1423	1hr	✓	KB
8/25/15	1508002-03	AMO Env.	1524	1hr	✓	KB
8/25/15	1508002-04	AMO Env.	1624	1hr	✓	KB
8/25/15	1508002-08	AMO Env.	1725	1hr	✓	KB

GE 2

DATE	sample #	Client	Load Time	CT Time	Analysis	Tech	
8/24/15	1508045-05	Accutest	1634	15mins	Ba	ICB	
8/25	CCV1401	LAB	0025	15	✓		
8/25	Reagent	LAB	0045	15	✓		
8/25	1508002-05	USA	0611	1L	✓		
8/25	1508002-08	USA	0716	1L	✓		
8/25	1508002-12	USA	0818	1L	✓		
8/25	1508002-16	USA	0917	1L	✓		
8/25	1508002-14	USA	0920	1L	✓		
8/25	1508002-20	USA	1020	1L	✓		
8/25	1508004-02	USA	1123	1L	✓		
8/25/15	1508004-10	USA	1224	1hr	✓	ICB	
8/25	1508004-14	USA	1324	1L	✓		
8/25/15	1508004-18	USA	1424	1hr	✓	ICB	
8/25/15	1508002-11	AMO Env.	1526	15mins	✓	ICB	
8/25/15	1508066-01	MPA	1544	15mins	Ba	ICB	
8/25/15	1508066-02	MPA	1600	15 mins	Ba	ICB	
8/25/15	1508002-05	AMO Env.	1616	1hr	✓	ICB	
8/25/15	1508002-07	AMO Env.	1717	1hr	✓	ICB	
8/25/15	1508002-10	AMO Env.	1818	1hr	✓	ICB	

GE 3

DATE	Sample #	Client	Load Time	CT Time	Analysis	Tech
8/25	1508007-07	USA	0709	ZL	✓	✓
8/25	1508007-10	USA	0812	ZL	✓	✓
8/25	1508007-11	USA	0913	ZL	✓	✓
8/25	1508007-18	USA	1017	ZL	✓	✓
8/25	1508004-06	USA	1118	ZL	✓	✓
8/25/15	1508004-08	USA	1220	1hr	✓	KB
8/25	1508004-12	USA	1321	ZL	✓	✓
8/25/15	1508004-16	USA	1422	1hr	✓	KB
8/25/15	1508004-20	USA	1522	1hr	✓	KB
8/25/15	1508002-06	AMO Env.	1623	1hr	✓	KB
8/25/15	1508002-09	AMO Env.	1725	1hr	✓	KB

GE 4

DATE	SAmple #	Client	Load Time	CT. Time	Analysis	Tech
8/25	EAW 14	LAB	0520	15	✓	[illegible]
8/25	[illegible]	LAB	0549	15	✓	[illegible]
8/25	1508007-06	USA	0611	JL	✓	—
8/25	1508007-09	USA	0716	JL	✓	—
8/25	1508007-13	USA	0818	JL	✓	—
8/25	1508007-17	USA	0921	JL	✓	—
8/25	1508007-19	USA	1022	JL	✓	—
8/25	1508004-05	USA	1123	JL	✓	—
8/25/15	1508004-11	USA	1224	1 hr	✓	KB
8/25	1508004-15	USA	1325	JL	✓	—
8/25/15	1508004-19	USA	1425	1 hr	✓	KB
8/25/15	1508002-01	AMO Env.	1531	30 mins	✓	KB
8/25/15	1508066-03	MPA	1602	15 mins	Ba	KB
8/25/15	1508066-04	MPA	1617	15 mins	Ba	KB
8/25/15	1508066-05	MPA	1633	15 mins	Ba	KB
8/25/15	1508066-06	MPA	1649	15 mins	Ba	KB
8/25/15	1508071-01	ND	1704	15 mins	Ba	KB
8/25/15	1508002-02	AMO Env.	1719	1 hr	✓	KB

00067

SECTION VIII

ANALYTICAL DATA (ISOTOPIC URANIUM)

15-08002
UUISO
Run 1

Work Order	15-08002
Analysis Code	UUISO
Run	1
Date Received	8/3/2015
Lab Deadline	8/25/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML U-02 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	U-232
Radiometric Sol#	U-10a
Tracer Act (dpm/g)	18.68
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		08/03/15 00:00	1.0000E+00
02	MBL	BLANK		08/03/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-8 075-076	82	07/29/15 09:06	1.6040E-01
04	DO	FEEBRIS1D-8 075-076	82	07/29/15 09:06	1.6040E-01
05	TRG	FEEBRIS1D-8 090-091	65	07/29/15 09:41	2.5710E-01
06	TRG	FEEBRIS1D-4 061-062	90	07/30/15 07:35	1.0350E-01
07	TRG	FEEBRIS1D-4 064-065	69	07/30/15 07:40	2.5430E-01
08	TRG	FEEBRIS1D-20 080-081	153	07/30/15 09:57	1.6840E-01
09	TRG	DUPLICATE 5	77	07/30/15 09:57	2.5070E-01
10	TRG	FEEBRIS1D-20 089-090	101	07/30/15 10:24	1.0200E-01
11	TRG	FEEBRIS1D-7 084-085	7570	07/24/15 08:07	1.4320E-03

69000

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-08002
UUISO
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.6038	11.3		0.00								
02	MBL	0.6029	11.3		0.00								
03	DUP	0.6026	11.3		0.00								
04	DO	0.6015	11.2		0.00								
05	TRG	0.6013	11.2		0.00								
06	TRG	0.6007	11.2		0.00								
07	TRG	0.6000	11.2		0.00								
08	TRG	0.6010	11.2		0.00								
09	TRG	0.6000	11.2		0.00								
10	TRG	0.6006	11.2		0.00								
11	TRG	0.6007	11.2		0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

002000

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			08/12/15 06:43	JWOLFE				
02	MBL			08/12/15 06:43	JWOLFE				
03	DUP			08/12/15 06:43	JWOLFE				
04	DO	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
05	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
06	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
07	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
08	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
09	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
10	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				
11	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:43	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-234	LCS	LCS	pCi/g	5.02E+00	7.26E-01	5.91E-02	5.24E+00	95.82	OK		OK	
02	U-234	MBL	BLANK	pCi/g	1.03E-01	2.49E-01	5.18E-01					INV	OK
03	U-234	DUP	FEEBRIS1D-8 075-076	pCi/g	7.01E-02	4.40E-01	1.06E+00				NA	INV	
04	U-234	DO	FEEBRIS1D-8 075-076	pCi/g	6.59E-01	4.73E-01	3.51E-01					INV	
05	U-234	TRG	FEEBRIS1D-8 090-091	pCi/g	8.99E-01	5.16E-01	3.40E-01					INV	
06	U-234	TRG	FEEBRIS1D-4 061-062	pCi/g	2.83E+00	1.24E+00	6.25E-01					INV	
07	U-234	TRG	FEEBRIS1D-4 064-065	pCi/g	1.42E+00	6.08E-01	3.43E-01					INV	
08	U-234	TRG	FEEBRIS1D-20 080-081	pCi/g	1.92E+00	8.16E-01	5.58E-01					INV	
09	U-234	TRG	DUPLICATE 5	pCi/g	2.10E+00	7.75E-01	2.75E-01					INV	
10	U-234	TRG	FEEBRIS1D-20 089-090	pCi/g	3.36E+00	1.53E+00	8.61E-01					INV	
11	U-234	TRG	FEEBRIS1D-7 084-085	pCi/g	3.73E+02	1.65E+02	8.70E+01					INV	

27000 00072

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-234	LCS	08/03/15 00:00	1.00E+00	111.00	0.00	0.00			
02	U-234	MBL	08/03/15 00:00	1.00E+00	11.52	0.00	0.00			
03	U-234	DUP	07/29/15 09:06	1.60E-01	59.23	0.00	0.00			
04	U-234	DO	07/29/15 09:06	1.60E-01	113.18	0.00	0.00			
05	U-234	TRG	07/29/15 09:41	2.57E-01	72.75	0.00	0.00			
06	U-234	TRG	07/30/15 07:35	1.04E-01	106.82	0.00	0.00			
07	U-234	TRG	07/30/15 07:40	2.54E-01	97.58	0.00	0.00			
08	U-234	TRG	07/30/15 09:57	1.68E-01	113.12	0.00	0.00			
09	U-234	TRG	07/30/15 09:57	2.51E-01	97.24	0.00	0.00			
10	U-234	TRG	07/30/15 10:24	1.02E-01	93.24	0.00	0.00			
11	U-234	TRG	07/24/15 08:07	1.43E-03	74.98	0.00	0.00			

Run: 1
Analysis Code: UUISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-234	LCS	08/17/15 11:20		A_Spec	Alpha_039	170	4.06 E+02	2.00 E-03	19.3
02	U-234	MBL	08/17/15 11:20		A_Spec	Alpha_040	170	8.30 E-01	1.00 E-03	18.6
03	U-234	DUP	08/17/15 11:20		A_Spec	Alpha_041	170	4.70 E-01	9.00 E-03	18.7
04	U-234	DO	08/17/15 11:20		A_Spec	Alpha_042	170	7.83 E+00	1.00 E-03	17.4
05	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_043	170	1.27 E+01	2.00 E-03	20
06	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_044	170	2.17 E+01	2.00 E-03	18.4
07	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_045	170	2.33 E+01	4.00 E-03	17.6
08	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_046	170	2.45 E+01	9.00 E-03	17.8
09	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_047	170	3.18 E+01	1.00 E-03	16.5
10	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_048	170	2.05 E+01	3.00 E-03	17
11	U-234	TRG	08/17/15 11:21		A_Spec	Alpha_049	170	2.25 E+01	3.00 E-03	15.3

4200 074

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-238	LCS	LCS	pCi/g	5.46E+00	7.75E-01	5.89E-02	5.10E+00	107.05	OK		OK	
02	U-238	MBL	BLANK	pCi/g	1.24E-01	3.45E-01	7.41E-01					INV	OK
03	U-238	DUP	FEEBRIS1D-8 075-076	pCi/g	3.64E-01	6.81E-01	1.25E+00				NA	INV	
04	U-238	DO	FEEBRIS1D-8 075-076	pCi/g	5.85E-01	4.74E-01	5.28E-01					INV	
05	U-238	TRG	FEEBRIS1D-8 090-091	pCi/g	8.25E-01	4.93E-01	3.38E-01					INV	
06	U-238	TRG	FEEBRIS1D-4 061-062	pCi/g	2.78E+00	1.24E+00	7.34E-01					INV	
07	U-238	TRG	FEEBRIS1D-4 064-065	pCi/g	1.78E+00	6.84E-01	3.18E-01					INV	
08	U-238	TRG	FEEBRIS1D-20 080-081	pCi/g	9.34E-01	5.89E-01	6.09E-01					INV	
09	U-238	TRG	DUPLICATE 5	pCi/g	1.04E+00	5.31E-01	2.74E-01					INV	
10	U-238	TRG	FEEBRIS1D-20 089-090	pCi/g	3.98E+00	1.68E+00	9.22E-01					INV	
11	U-238	TRG	FEEBRIS1D-7 084-085	pCi/g	2.23E+02	1.25E+02	8.66E+01					INV	

C2000

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-238	LCS	08/03/15 00:00	1.00E+00	111.00	0.00	0.00			
02	U-238	MBL	08/03/15 00:00	1.00E+00	11.52	0.00	0.00			
03	U-238	DUP	07/29/15 09:06	1.60E-01	59.23	0.00	0.00			
04	U-238	DO	07/29/15 09:06	1.60E-01	113.18	0.00	0.00			
05	U-238	TRG	07/29/15 09:41	2.57E-01	72.75	0.00	0.00			
06	U-238	TRG	07/30/15 07:35	1.04E-01	106.82	0.00	0.00			
07	U-238	TRG	07/30/15 07:40	2.54E-01	97.58	0.00	0.00			
08	U-238	TRG	07/30/15 09:57	1.68E-01	113.12	0.00	0.00			
09	U-238	TRG	07/30/15 09:57	2.51E-01	97.24	0.00	0.00			
10	U-238	TRG	07/30/15 10:24	1.02E-01	93.24	0.00	0.00			
11	U-238	TRG	07/24/15 08:07	1.43E-03	74.98	0.00	0.00			

92000

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions

Eberline Services Work Order: 15-08002

Analysis Code: UUISO

Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-238	LCS	08/17/15 11:20		A_Spec	Alpha_039	170	4.44 E+02	2.00 E-03	19.3
02	U-238	MBL	08/17/15 11:20		A_Spec	Alpha_040	170	1.00 E+00	0.00 E+00	18.6
03	U-238	DUP	08/17/15 11:20		A_Spec	Alpha_041	170	2.45 E+00	1.50 E-02	18.7
04	U-238	DO	08/17/15 11:20		A_Spec	Alpha_042	170	6.98 E+00	6.00 E-03	17.4
05	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_043	170	1.17 E+01	2.00 E-03	20
06	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_044	170	2.13 E+01	4.00 E-03	18.4
07	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_045	170	2.95 E+01	3.00 E-03	17.6
08	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_046	170	1.20 E+01	1.20 E-02	17.8
09	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_047	170	1.58 E+01	1.00 E-03	16.5
10	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_048	170	2.43 E+01	4.00 E-03	17
11	U-238	TRG	08/17/15 11:21		A_Spec	Alpha_049	170	1.35 E+01	3.00 E-03	15.3

12000

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-UUISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	U-235	LCS	LCS	pCi/g	5.16E-01	1.83E-01	6.37E-02					OK	
02	U-235	MBL	BLANK	pCi/g	0.00E+00	4.25E-01	9.18E-01					INV	OK
03	U-235	DUP	FEEBRIS1D-8 075-076	pCi/g	-9.39E-02	3.76E-01	9.66E-01				NA	INV	
04	U-235	DO	FEEBRIS1D-8 075-076	pCi/g	2.59E-01	3.59E-01	5.45E-01					INV	
05	U-235	TRG	FEEBRIS1D-8 090-091	pCi/g	2.48E-01	3.01E-01	3.66E-01					INV	
06	U-235	TRG	FEEBRIS1D-4 061-062	pCi/g	3.23E-01	5.49E-01	9.67E-01					INV	
07	U-235	TRG	FEEBRIS1D-4 064-065	pCi/g	3.75E-01	3.63E-01	4.50E-01					INV	
08	U-235	TRG	FEEBRIS1D-20 080-081	pCi/g	1.40E-01	4.00E-01	8.12E-01					INV	
09	U-235	TRG	DUPLICATE 5	pCi/g	4.75E-01	3.96E-01	3.40E-01					INV	
10	U-235	TRG	FEEBRIS1D-20 089-090	pCi/g	3.36E-01	5.71E-01	9.68E-01					INV	
11	U-235	TRG	FEEBRIS1D-7 084-085	pCi/g	4.09E+01	6.97E+01	1.23E+02					INV	

82000

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	U-235	LCS	08/03/15 00:00	1.00E+00	111.00	0.00	0.00			
02	U-235	MBL	08/03/15 00:00	1.00E+00	11.52	0.00	0.00			
03	U-235	DUP	07/29/15 09:06	1.60E-01	59.23	0.00	0.00			
04	U-235	DO	07/29/15 09:06	1.60E-01	113.18	0.00	0.00			
05	U-235	TRG	07/29/15 09:41	2.57E-01	72.75	0.00	0.00			
06	U-235	TRG	07/30/15 07:35	1.04E-01	106.82	0.00	0.00			
07	U-235	TRG	07/30/15 07:40	2.54E-01	97.58	0.00	0.00			
08	U-235	TRG	07/30/15 09:57	1.68E-01	113.12	0.00	0.00			
09	U-235	TRG	07/30/15 09:57	2.51E-01	97.24	0.00	0.00			
10	U-235	TRG	07/30/15 10:24	1.02E-01	93.24	0.00	0.00			
11	U-235	TRG	07/24/15 08:07	1.43E-03	74.98	0.00	0.00			

64000

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: UUISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	U-235	LCS	08/17/15 11:20		A_Spec	Alpha_039	170	3.38 E+01	1.00 E-03	19.3
02	U-235	MBL	08/17/15 11:20		A_Spec	Alpha_040	170	1.00 E+00	0.00 E+00	18.6
03	U-235	DUP	08/17/15 11:20		A_Spec	Alpha_041	170	-5.10 E-01	3.00 E-03	18.7
04	U-235	DO	08/17/15 11:20		A_Spec	Alpha_042	170	2.49 E+00	3.00 E-03	17.4
05	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_043	170	2.83 E+00	1.00 E-03	20
06	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_044	170	2.00 E+00	0.00 E+00	18.4
07	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_045	170	5.00 E+00	0.00 E+00	17.6
08	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_046	170	1.45 E+00	1.50 E-02	17.8
09	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_047	170	5.83 E+00	1.00 E-03	16.5
10	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_048	170	1.66 E+00	2.00 E-03	17
11	U-235	TRG	08/17/15 11:21		A_Spec	Alpha_049	170	2.00 E+00	0.00 E+00	15.3

08000

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-08002	1	UUISO	8/18/2015 10:44	MMCDOUGALL		

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	*Sol #*	*Activity dpm/g*	*Solution Date*	*Approx Addition*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*
U-234	U-8a	35.240	8/18/2015	0.500	0.3298				5.24	0.188	0.00	0.000	0.00	0.000	0.00	0.000
U-238	U-8a	34.350	8/18/2015	0.500	0.3298				5.10	0.184	0.00	0.000	0.00	0.000	0.00	0.000

Tracers						
fraction	*Isotope*	*Sol #*	*Activity dpm/g*	*Solution Date*	*Volume Used (g)*	*Approx Addition*
01	U-232	U-10a	18.670	8/18/2015	0.6038	0.6500
02	U-232	U-10a	18.670	8/18/2015	0.6029	0.6500
03	U-232	U-10a	18.670	8/18/2015	0.6026	0.6500
04	U-232	U-10a	18.670	8/18/2015	0.6015	0.6500
05	U-232	U-10a	18.670	8/18/2015	0.6013	0.6500
06	U-232	U-10a	18.670	8/18/2015	0.6007	0.6500
07	U-232	U-10a	18.670	8/18/2015	0.6000	0.6500
08	U-232	U-10a	18.670	8/18/2015	0.6010	0.6500
09	U-232	U-10a	18.670	8/18/2015	0.6000	0.6500
10	U-232	U-10a	18.670	8/18/2015	0.6006	0.6500
11	U-232	U-10a	18.670	8/18/2015	0.6007	0.6500

Balance Printer Tapes

Tracer

LCS



Matrix Spike

00081

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/12/2015 6:07 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-08002	1	UUISO	grams	8/25/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-8 075-076	DUP		1	12.47	8.02E-02	2.0000E+00	1.6040E-01				
04	FEEBRIS1D-8 075-076	DO		1	12.47	8.02E-02	2.0000E+00	1.6040E-01				
05	FEEBRIS1D-8 090-091	TRG					2.5710E-01	2.5710E-01				
06	FEEBRIS1D-4 061-062	TRG					1.0350E-01	1.0350E-01				
07	FEEBRIS1D-4 064-065	TRG					2.5430E-01	2.5430E-01				
08	FEEBRIS1D-20 080-081	TRG					1.6840E-01	1.6840E-01				
09	DUPLICATE 5	TRG					2.5070E-01	2.5070E-01				
10	FEEBRIS1D-20 089-090	TRG					1.0200E-01	1.0200E-01				
11	FEEBRIS1D-7 084-085	TRG		1	698.32	1.43E-03	1.0000E+00	1.4320E-03				

Comments	

28000

Technician: JWolfe Date: 8/12/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-08002
	Fraction	**> 03 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.02**	ml	from the original sample and diluted it to	**100**	ml	0.0802
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0802**
Dilution Factor	**12.46882793**

38003

Diluted by: _____ Date: 8/12/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-08002
	Fraction	**> 04 <**
	Analysis Code	**UUISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.02**	ml	from the original sample and diluted it to	**100**	ml	0.0802
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0802**
Dilution Factor	**12.46882793**

00084

Diluted by: JW Date: 8/12/15

EBERLINE SERVICES	Internal Work Order	15-08002
	Fraction	> 11 <
Dilution Worksheet	Analysis Code	UUISO
	Run Number	1
	Analyst	JWOLFE

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**0.1432**	ml	from the original sample and diluted it to	**100**	ml	0.0014
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.001432**
Dilution Factor	**698.3240223**

00085

Diluted by: JW Date: 8/12/15

Eberline Services - Oak Ridge
Version 2.0 8/1999

Muffle Worksheet

Printed: 8/4/2015 7:24 AM

Work Order	Aliquot Units	Lab Deadline	Technician
15-08002	grams	8/25/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-8 075-076	103.0300	111.0500		8.0200		
05	FEEBRIS1D-8 090-091						
06	FEEBRIS1D-4 061-062						
07	FEEBRIS1D-4 064-065						
08	FEEBRIS1D-20 080-081						
09	DUPLICATE 5						
10	FEEBRIS1D-20 089-090						
11	FEEBRIS1D-7 084-085						

Comments

98000

Technician: Kenny Sallings Date: 8/4/15

Analysis: UUISO

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 8/4/2015 7:03 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-08002	8/25/2015	8/3/2015	8/4/2015	8/5/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-8 075-076	29.1400	1285.8400	939.6200	1256.7000	910.4800	27.55%	72.45%			
05	FEEBRIS1D-8 090-091	14.5200	1361.5600	1123.6600	1347.0400	1109.1400	17.66%	82.34%			
06	FEEBRIS1D-4 061-062	28.9300	1585.4000	1326.6400	1556.4700	1297.7100	16.62%	83.38%			
07	FEEBRIS1D-4 064-065	29.0900	1146.8400	987.6800	1117.7500	958.5900	14.24%	85.76%			
08	FEEBRIS1D-20 080-081	29.0500	1884.4500	1712.7000	1855.4000	1683.6500	9.26%	90.74%			
09	DUPLICATE 5	29.3000	1915.5000	1753.4000	1886.2000	1724.1000	8.59%	91.41%			
10	FEEBRIS1D-20 089-090	29.0600	1419.9000	1184.3000	1390.8400	1155.2400	16.94%	83.06%			
11	FEEBRIS1D-7 084-085	14.5600	643.0500	530.1000	628.4900	515.5400	17.97%	82.03%			

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

15-08002

Technician: Kenny Sallings Date: **Analysis: Rough Prep Logbook**

KB 8/18/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 126359
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/17/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:51 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.604 mL
Effective Efficiency: 0.2147 +/- 0.0117
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 1.1100 +/- 0.0636

Control Certificate Name: NatU_U-8A
Chem. Recov. of Control: U-238 0.678274 +/- 0.053149
Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.214	408.81	9.71	1.19	0.00E+000	36.4
U-234		4.674	405.66	9.74	0.34	0.00E+000	23.0
U-235		4.388	33.83	33.80	0.17	0.00E+000	6.8
U-238		4.104	443.66	9.31	0.34	0.00E+000	46.3

T = Tracer Peak used for Effective Efficiency

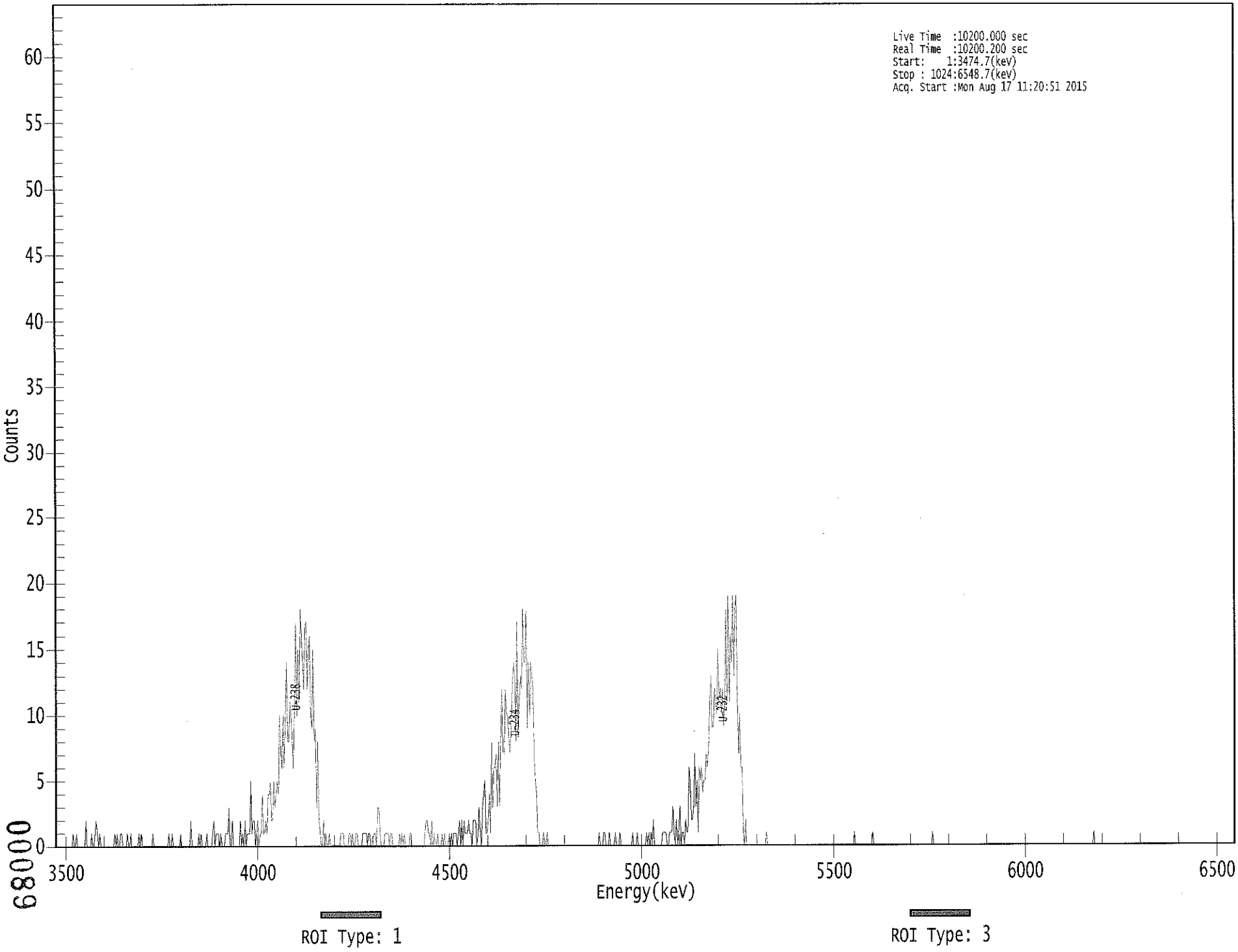
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.946	5302.50*	5.06E+000 +/- 5.41E-001	8.15E-002 +/- 8.72E-003
U-234	0.948	4761.50*	5.02E+000 +/- 7.26E-001	5.91E-002 +/- 6.33E-003
U-235	1.000	4385.50*	5.16E-001 +/- 1.83E-001	6.37E-002 +/- 6.82E-003
U-238	0.955	4184.40*	5.46E+000 +/- 7.75E-001	5.89E-002 +/- 6.30E-003

AG 8/18/15

00088

0000126199.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	1
17:	0	0	1	0	0	0	0	0
25:	0	0	2	0	0	0	0	1
33:	0	0	1	2	1	0	1	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	1	0	0
57:	1	1	0	0	0	0	1	0
65:	0	1	0	0	0	0	0	0
73:	1	0	1	0	0	0	0	0
81:	0	0	0	0	1	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	1	0	0	1	0	0
105:	0	0	0	0	1	0	0	0
113:	0	0	0	0	0	2	0	0
121:	0	0	0	0	1	0	1	0
129:	0	0	0	1	0	0	0	0
137:	1	2	0	1	1	1	0	1
145:	0	0	0	1	1	1	3	0
153:	0	2	0	0	0	0	0	0
161:	2	0	1	0	2	0	1	1
169:	1	5	1	2	2	0	1	2
177:	0	1	1	4	1	1	2	1
185:	4	4	5	2	2	5	3	4
193:	5	4	10	7	6	10	6	10
201:	14	8	8	11	10	8	6	11
209:	17	10	15	11	18	16	14	12
217:	17	17	12	15	16	10	9	15
225:	8	9	3	8	2	1	0	0
233:	2	0	1	0	0	1	0	0
241:	0	0	0	0	0	0	0	1
249:	1	1	0	0	0	0	1	1
257:	0	1	0	0	1	1	0	0
265:	0	0	1	1	1	1	0	1
273:	1	0	0	0	1	1	0	3
281:	3	1	0	0	0	1	1	1
289:	1	0	1	1	0	0	0	0
297:	0	0	1	0	1	0	1	0
305:	0	0	0	1	1	0	0	0
313:	0	0	0	0	0	0	0	0
321:	1	2	2	1	1	0	2	0
329:	1	0	0	1	0	0	0	1
337:	0	1	0	0	0	1	0	1
345:	0	1	1	1	0	1	2	0
353:	2	0	2	1	1	1	2	1
361:	1	0	2	2	2	0	1	3

369:	1	0	3	4	5	1	1	2

Sample Title: 01

Channel								
377:	4	1	8	3	6	6	7	3
385:	8	3	8	12	7	7	12	10
393:	10	8	7	9	12	14	13	8
401:	17	8	11	13	12	18	14	14
409:	18	9	14	10	14	13	12	7
417:	5	4	1	1	0	0	0	1
425:	0	0	1	0	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	1	1	0	0	0
481:	1	0	0	0	0	1	0	0
489:	0	1	0	0	0	0	0	0
497:	0	0	0	0	1	0	0	0
505:	1	0	0	0	0	0	0	0
513:	1	0	1	0	1	0	2	0
521:	0	0	0	0	0	0	1	1
529:	1	1	0	0	1	1	1	3
537:	1	0	2	0	1	3	0	1
545:	1	0	2	1	1	6	5	2
553:	2	3	7	3	5	1	6	5
561:	6	4	5	5	7	6	8	11
569:	13	9	9	12	11	10	15	11
577:	12	10	12	9	11	18	11	19
585:	11	16	14	19	13	18	19	11
593:	7	10	6	6	1	0	2	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	1	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	1	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	1	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	1	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	1	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

LCB 9/17/15

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 126360
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/17/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:53 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.0214 +/- 0.0034
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 0.1152 +/- 0.0185

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.280	40.66	30.89	0.34	0.00E+000	3.7
U-234		4.747	0.83	239.53	0.17	0.00E+000	3.0
U-235		4.397	0.00	1960.0	0.00	0.00E+000	0.0
U-238		4.145	1.00	277.19	0.00	0.00E+000	3.0

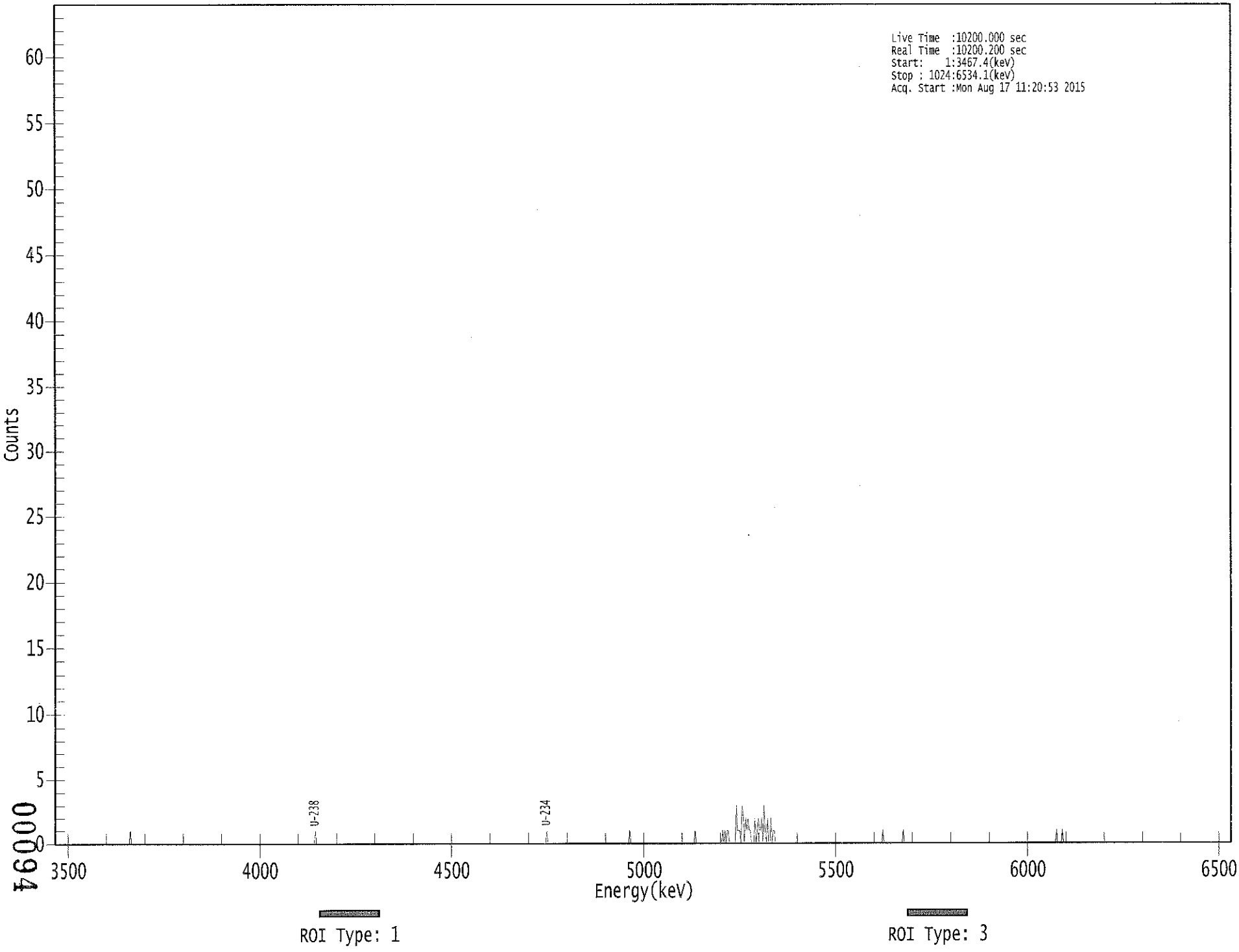
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	5.05E+000 +/- 1.58E+000	5.94E-001 +/- 1.85E-001
U-234	0.999	4761.50*	1.03E-001 +/- 2.49E-001	5.18E-001 +/- 1.62E-001
U-235	0.999	4385.50*	0.00E+000 +/- 4.25E-001	9.18E-001 +/- 2.87E-001
U-238	0.989	4184.40*	1.24E-001 +/- 3.45E-001	7.41E-001 +/- 2.31E-001

AG 8/18/15

0000126200.CNF



00094

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	1	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	1	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	1	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	1	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	1	0	1	0
585:	1	1	0	0	0	0	0	0
593:	3	1	1	1	0	3	2	0
601:	2	1	2	1	1	0	0	0
609:	2	0	1	2	1	1	2	0
617:	3	1	0	2	0	0	2	0
625:	1	1	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	1
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	1	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	1	0
873:	0	0	0	1	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

LCD 8/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 075-076-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 126361
Reagent Blank: <not performed>

Sample Size: 1.604E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:56 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.603 mL
Effective Efficiency: 0.1109 +/- 0.0081
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 0.5923 +/- 0.0442

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.279	210.83	13.51	0.17	0.00E+000	8.1
U-234		4.751	0.47	626.93	1.53	0.00E+000	3.0
U-235		4.397	-0.51	400.63	0.51	0.00E+000	0.0
U-238		4.170	2.45	186.48	2.55	0.00E+000	3.0

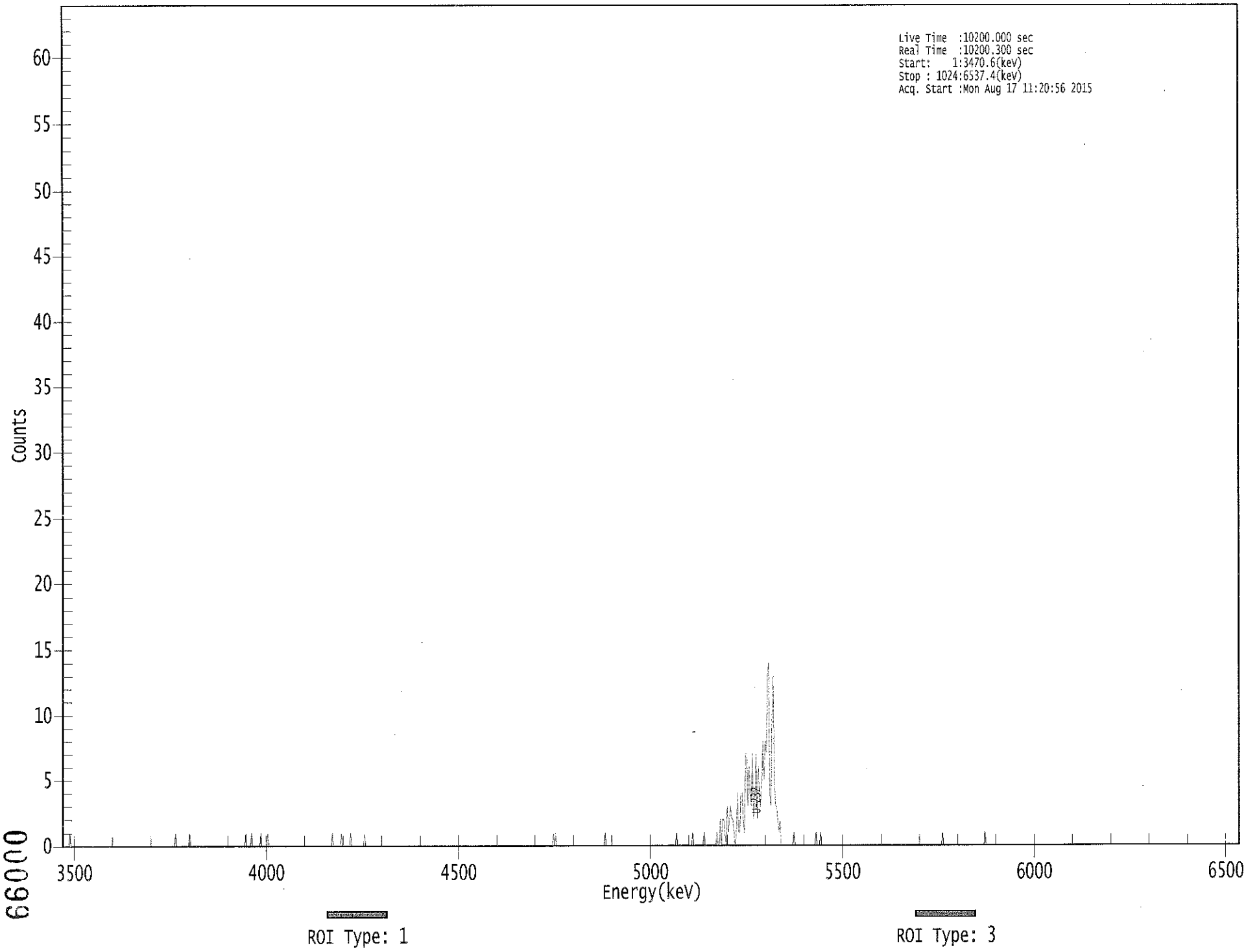
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	3.15E+001 +/- 4.48E+000	6.23E-001 +/- 8.87E-002
U-234	0.999	4761.50*	7.01E-002 +/- 4.40E-001	1.06E+000 +/- 1.51E-001
U-235	0.999	4385.50*	-9.39E-002 +/- 3.76E-001	9.66E-001 +/- 1.38E-001
U-238	0.998	4184.40*	3.64E-001 +/- 6.81E-001	1.25E+000 +/- 1.77E-001

AG 8/18/15

0000126205.CNF



****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	1	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	1	0	0	0	0	0
105:	0	0	0	0	0	0	1	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	0	0	1	0	0	0
169:	0	0	0	0	1	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	1	0	0	0	0	0
241:	0	0	1	0	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	0	0	0	1	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	1	0	1	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	1	0	0	0	0
553:	0	0	0	0	0	1	0	0
561:	0	0	0	0	0	0	0	0
569:	1	0	0	2	0	2	2	1
577:	0	3	1	2	3	2	2	1
585:	0	1	4	1	1	4	4	2
593:	1	7	7	3	6	4	3	7
601:	2	4	7	2	6	4	3	5
609:	8	5	8	7	13	14	4	3
617:	10	13	5	3	3	2	1	2
625:	0	0	0	0	0	0	0	0
633:	0	0	0	1	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	1	0
657:	0	0	1	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	1	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	1	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

ICB 9/17/15

Sample Description: FEEBRIS1D-8 075-076
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 126362
Reagent Blank: <not performed>

Sample Size: 1.604E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:20:59 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1966 +/- 0.0112
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 1.1318 +/- 0.0672

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.278	372.98	10.16	1.02	0.00E+000	16.9
U-234		4.725	7.83	70.93	0.17	0.00E+000	3.0
U-235		4.379	2.49	138.29	0.51	0.00E+000	3.0
U-238		4.139	6.98	80.28	1.02	0.00E+000	3.0

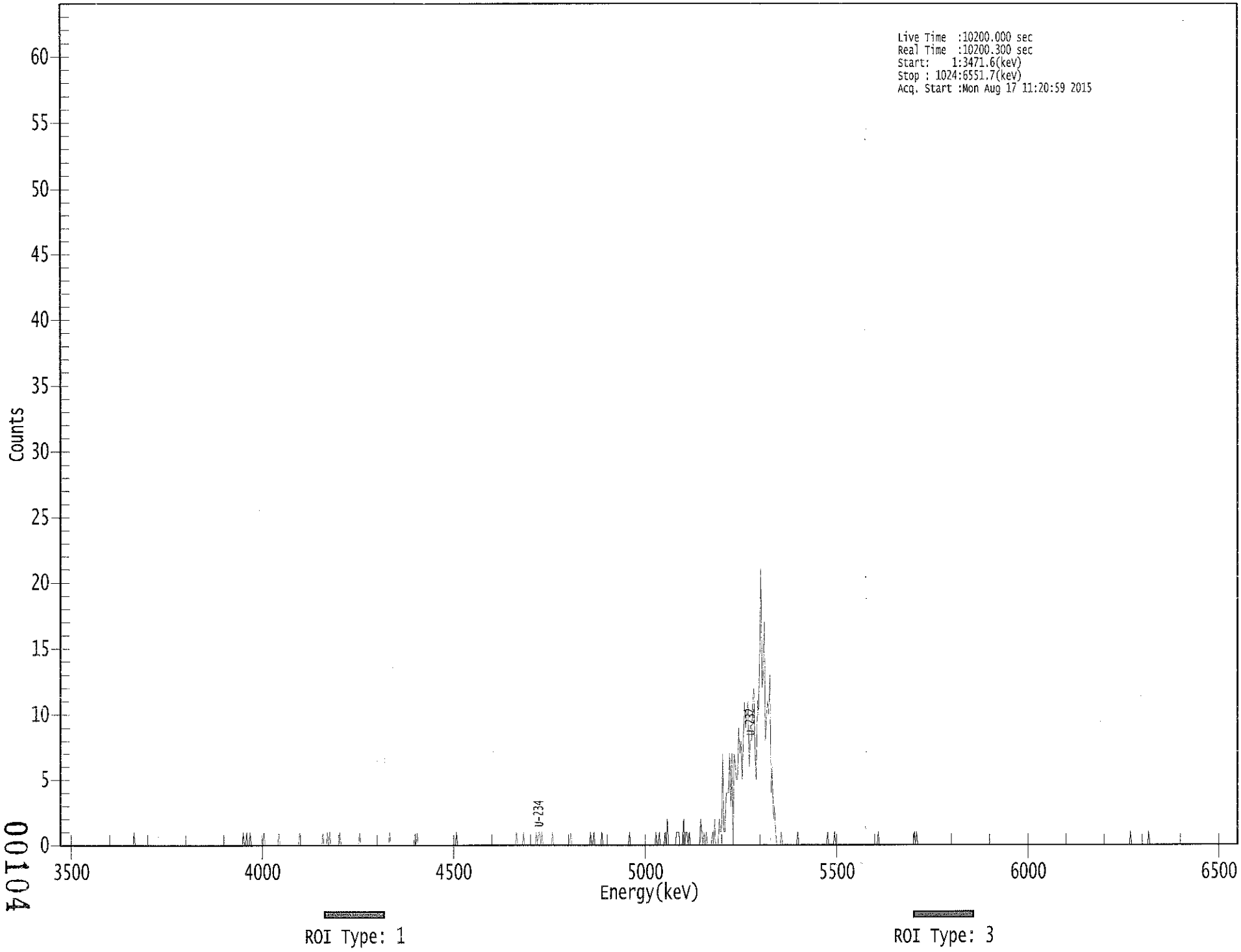
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	3.14E+001 +/- 3.49E+000	5.31E-001 +/- 5.90E-002
U-234	0.991	4761.50*	6.59E-001 +/- 4.73E-001	3.51E-001 +/- 3.91E-002
U-235	1.000	4385.50*	2.59E-001 +/- 3.59E-001	5.45E-001 +/- 6.06E-002
U-238	0.985	4184.40*	5.85E-001 +/- 4.74E-001	5.28E-001 +/- 5.87E-002

AG 8/18/15

0000126206.CNF



001104

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	1	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	1	0	0	1	0	0
169:	0	0	0	0	0	0	0	0
177:	0	1	0	0	0	0	0	0
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	1	0	0	0
233:	1	0	1	0	0	0	0	0
241:	0	0	0	1	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	1	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	1	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	1	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	1	0	0	0
401:	0	0	1	0	0	0	0	0
409:	0	0	0	0	0	1	0	1
417:	1	0	1	0	0	0	0	0
425:	0	0	0	1	0	0	0	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	1	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	1	0	0	1
465:	0	0	0	0	0	0	1	0
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	1	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	1	0	0
521:	1	0	0	0	0	1	0	2
529:	0	0	0	0	0	0	0	1
537:	1	1	0	0	0	2	0	1
545:	1	0	1	0	0	0	0	0
553:	0	0	0	0	2	1	0	1
561:	0	1	0	0	0	0	1	0
569:	2	0	0	0	2	1	1	7
577:	1	1	4	4	4	7	3	7
585:	0	7	6	5	5	9	7	8
593:	5	8	11	9	10	11	6	8
601:	8	11	12	7	5	11	10	15
609:	21	12	13	17	8	10	11	10
617:	13	4	6	2	3	1	0	0
625:	0	0	1	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	1	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	1	0	0	0	0	0
673:	1	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	1	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	1	0	1
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	1	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	1	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 9/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 090-091
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 126363
Reagent Blank: <not performed>

Sample Size: 2.571E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:01 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1454 +/- 0.0094
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.7275 +/- 0.0486

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.282	275.66	11.81	0.34	0.00E+000	5.7
U-234		4.734	12.66	55.94	0.34	0.00E+000	6.0
U-235		4.376	2.83	120.53	0.17	0.00E+000	3.0
U-238		4.158	11.66	58.37	0.34	0.00E+000	3.0

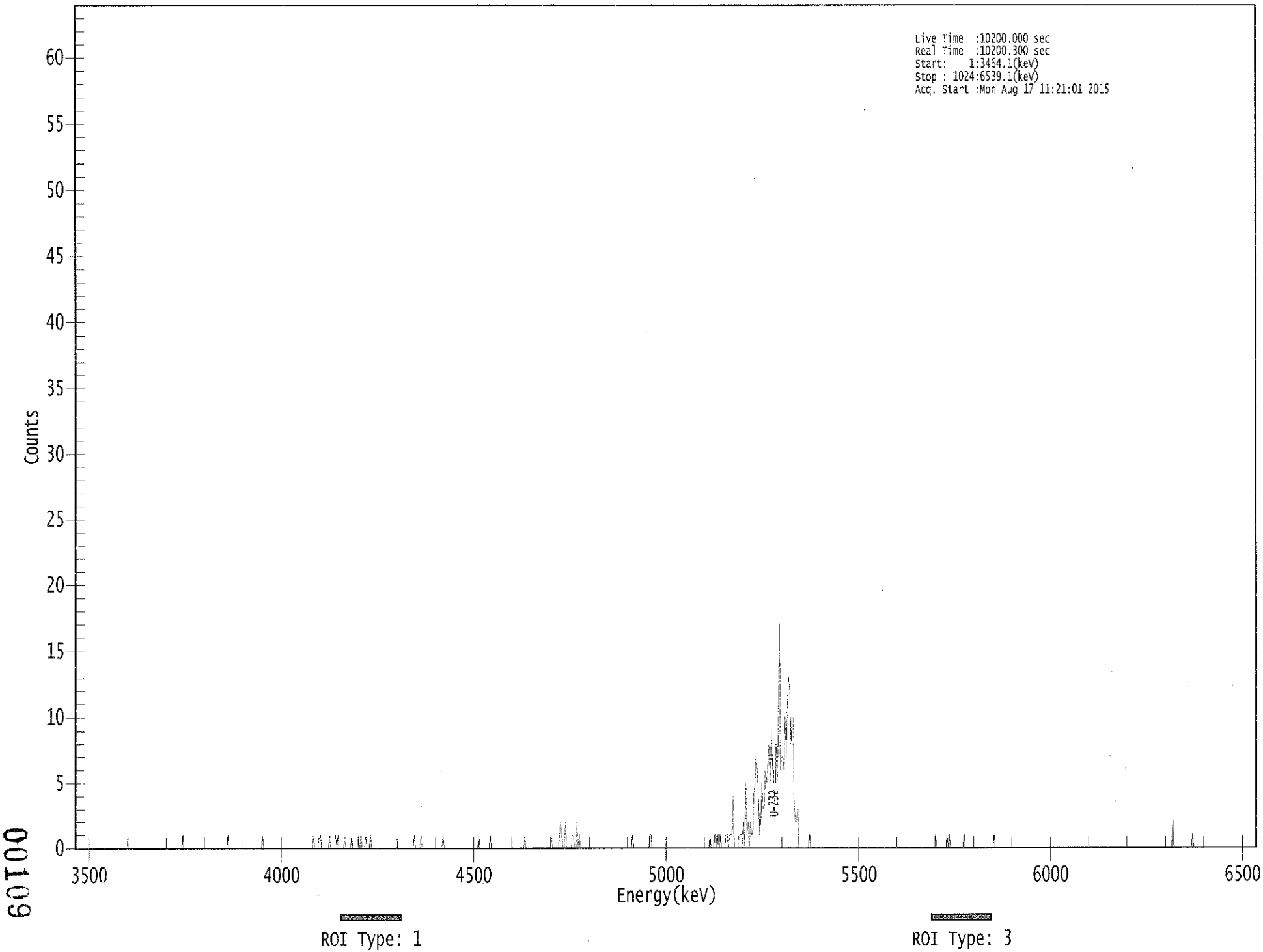
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.997	5302.50*	1.96E+001 +/- 2.48E+000	3.40E-001 +/- 4.30E-002
U-234	0.995	4761.50*	8.99E-001 +/- 5.16E-001	3.40E-001 +/- 4.29E-002
U-235	0.999	4385.50*	2.48E-001 +/- 3.01E-001	3.66E-001 +/- 4.62E-002
U-238	0.995	4184.40*	8.25E-001 +/- 4.93E-001	3.38E-001 +/- 4.28E-002

AG 8/18/15

0000126201.CNF



60100

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	1	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	1	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	1	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	1	0
209:	0	0	0	1	1	0	0	0
217:	0	0	0	0	1	0	0	0
225:	0	1	0	1	0	0	0	0
233:	0	1	0	0	0	0	0	1
241:	0	0	0	0	0	1	0	1
249:	0	0	0	1	0	0	0	1
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	1	0	0
297:	0	0	0	1	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	1	0	0
353:	0	0	0	0	0	0	0	1
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	1	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	1	0	0	0
417:	0	0	0	1	2	1	0	0
425:	2	0	0	0	0	0	1	1
433:	0	0	2	0	1	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	1	1	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	1	0	0
553:	0	1	1	0	1	0	1	0
561:	0	0	0	1	1	0	1	1
569:	1	4	0	0	0	0	1	1
577:	1	1	2	0	5	1	2	0
585:	2	1	1	4	5	7	6	4
593:	1	2	5	3	3	6	5	6
601:	8	5	9	6	6	2	8	5
609:	9	17	6	7	7	6	10	7
617:	11	13	12	8	10	10	3	2
625:	2	3	0	0	0	0	0	0
633:	0	0	0	1	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	1	0	0	0	0	0	0	0
753:	0	0	1	0	1	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	1	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	1	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	2	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KB 8/17/15

Sample Description: FEEBRIS1D-4 061-062
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 126364
Reagent Blank: <not performed>

Sample Size: 1.035E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:03 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1962 +/- 0.0111
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.0682 +/- 0.0635

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.286	371.66	10.17	0.34	0.00E+000	30.7
U-234		4.742	21.66	42.50	0.34	0.00E+000	3.0
U-235		4.431	2.00	169.74	0.00	0.00E+000	3.0
U-238		4.137	21.32	43.23	0.68	0.00E+000	3.0

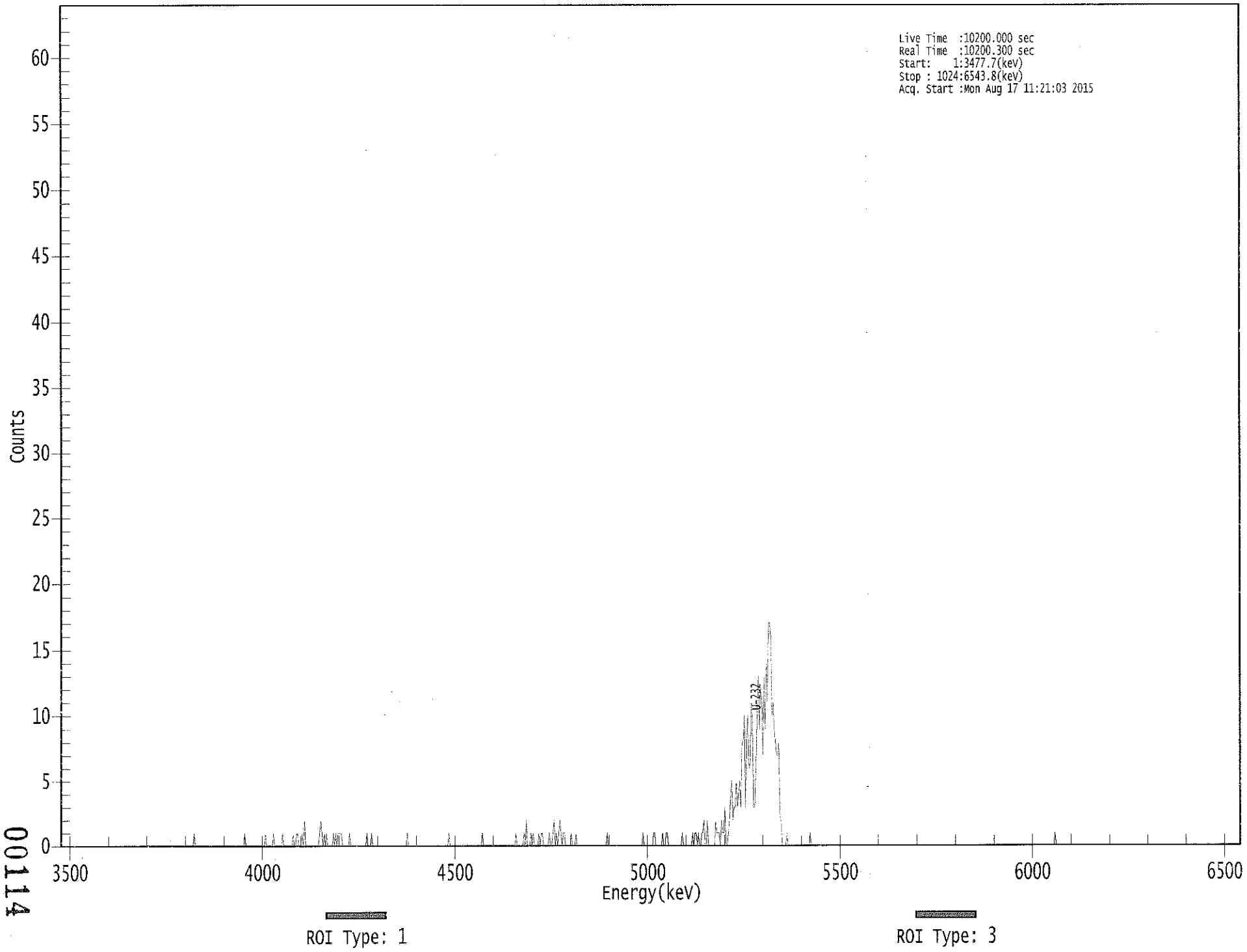
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	4.86E+001 +/- 5.41E+000	6.25E-001 +/- 6.96E-002
U-234	0.997	4761.50*	2.83E+000 +/- 1.24E+000	6.25E-001 +/- 6.96E-002
U-235	0.986	4385.50*	3.23E-001 +/- 5.49E-001	9.67E-001 +/- 1.08E-001
U-238	0.984	4184.40*	2.78E+000 +/- 1.24E+000	7.34E-001 +/- 8.17E-002

AG 8/18/15

0000126202.CNF



00114

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	1	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	1
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	1	0	0	0	0	0	0
185:	1	0	0	0	0	0	0	0
193:	1	0	0	0	0	0	0	0
201:	0	1	0	0	1	1	0	0
209:	0	1	0	2	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	1	2	1	0	1	0	1	0
233:	0	0	0	0	1	0	1	0
241:	1	1	1	1	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	1	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	1	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	1	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	1	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	1	0	0	0	0	0
401:	0	1	0	2	0	0	0	1
409:	0	1	0	0	0	0	1	0
417:	1	1	0	0	0	0	0	1
425:	0	0	1	2	0	1	0	1
433:	2	1	0	1	1	0	0	0
441:	0	0	1	0	0	0	1	0
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	0
473:	0	1	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	1	0	0	0	0	0	0	0
513:	0	1	1	0	0	0	0	0
521:	0	1	0	0	1	1	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	1	0	0	0	0	0
545:	0	0	0	1	0	1	1	0
553:	1	0	0	1	1	2	0	0
561:	2	0	0	0	0	0	0	2
569:	1	1	1	0	2	1	1	3
577:	0	0	1	2	4	5	2	3
585:	3	5	3	4	5	3	8	8
593:	10	3	8	10	6	6	11	10
601:	3	3	6	10	13	9	12	11
609:	7	13	9	14	11	17	17	16
617:	10	11	9	8	7	7	8	2
625:	2	0	0	0	0	1	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	1	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	1	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KCB 8/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-4 064-065
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_045
Chamber Serial Number: 04026482A
Detector Serial Number: 91131
Env. Background: System Bkgd 126365
Reagent Blank: <not performed>

Sample Size: 2.543E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:06 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.600 mL
Effective Efficiency: 0.1718 +/- 0.0103
Counting Efficiency: 0.1760 +/- 0.0031 on 10/25/2014 3:16:42 PM
Chem. Recovery Factor: 0.9758 +/- 0.0612

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.297	324.98	10.89	1.02	0.00E+000	4.5
U-234		4.734	23.32	41.27	0.68	0.00E+000	3.7
U-235		4.403	5.00	96.02	0.00	0.00E+000	3.0
U-238		4.164	29.49	36.46	0.51	0.00E+000	6.0

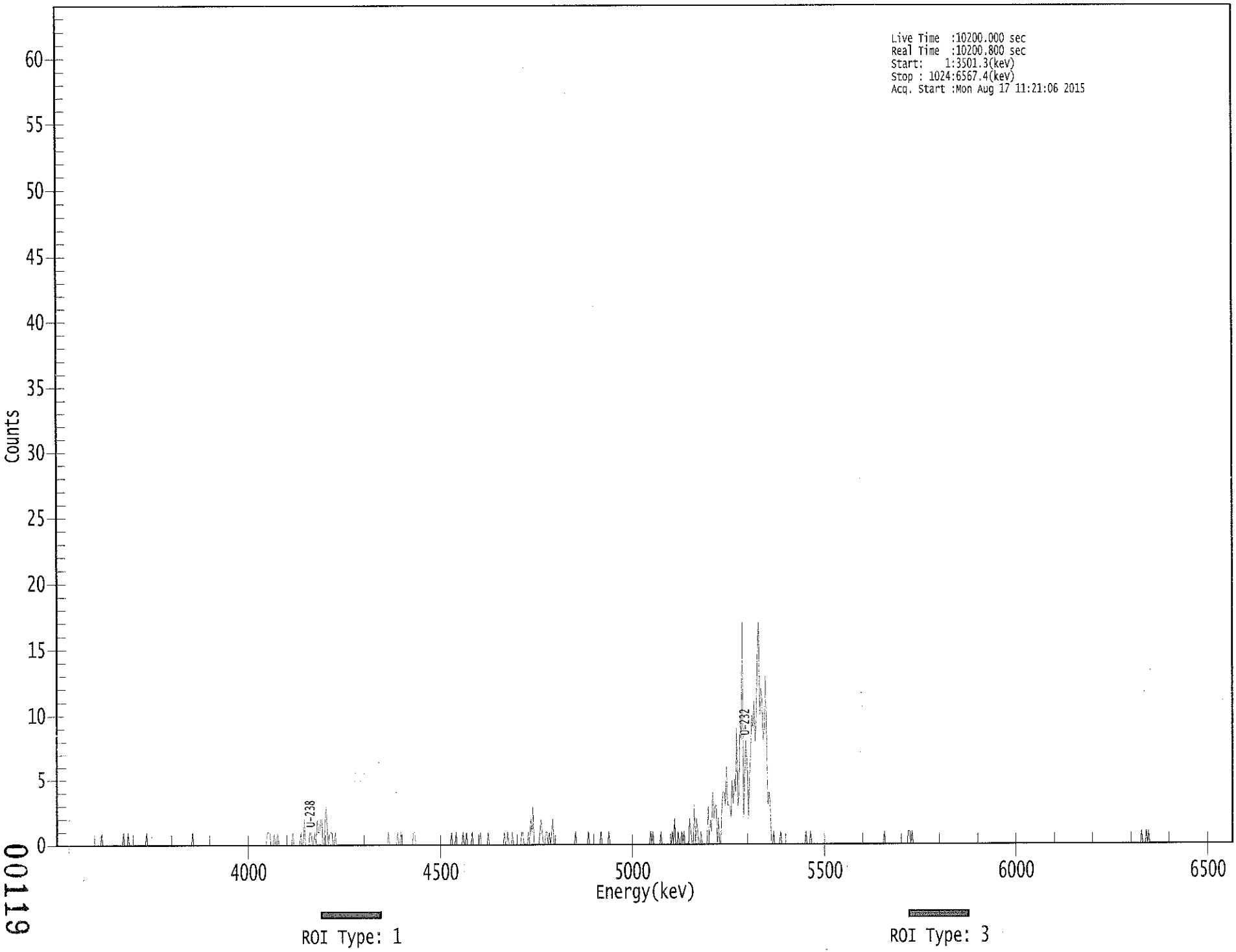
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	1.000	5302.50*	1.98E+001 +/- 2.33E+000	3.83E-001 +/- 4.52E-002
U-234	0.995	4761.50*	1.42E+000 +/- 6.08E-001	3.43E-001 +/- 4.04E-002
U-235	0.998	4385.50*	3.75E-001 +/- 3.63E-001	4.50E-001 +/- 5.30E-002
U-238	0.997	4184.40*	1.78E+000 +/- 6.84E-001	3.18E-001 +/- 3.74E-002

AG 8/18/15

0000126196.CNF



001119

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	1
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	1	0	0	0	1	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	1	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	1	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	1
185:	1	1	0	0	0	1	0	0
193:	1	0	0	0	0	0	0	0
201:	0	0	0	0	0	1	0	0
209:	0	0	0	0	1	0	0	2
217:	0	0	0	0	1	1	0	0
225:	1	0	2	1	1	2	2	0
233:	0	2	3	1	0	1	1	1
241:	0	0	1	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	1	0	0	0	0	0	0	0
297:	1	0	0	1	0	0	0	0
305:	0	0	0	0	0	0	1	1
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	1
345:	0	0	0	1	0	0	0	0
353:	0	1	0	0	1	0	0	0
361:	0	1	0	0	0	0	0	0

369:	1	0	0	0	0	0	0	1

Sample Title: 07

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	1	0	0
393:	1	0	0	0	1	0	0	0
401:	0	0	0	0	1	1	0	0
409:	0	0	1	0	2	1	3	0
417:	0	0	0	0	1	2	1	0
425:	0	1	1	0	1	0	1	2
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	0
449:	0	0	0	1	0	0	0	0
457:	0	0	0	0	0	0	1	0
465:	0	0	0	0	0	0	0	0
473:	0	1	0	0	0	0	0	0
481:	1	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	1	0	1	0
521:	0	0	0	0	0	1	0	0
529:	0	0	0	0	0	0	0	1
537:	0	2	0	0	1	0	0	1
545:	0	1	0	0	0	0	2	1
553:	0	0	3	0	2	1	0	0
561:	1	0	0	0	0	0	3	0
569:	2	1	4	2	3	3	0	2
577:	0	0	3	4	4	3	6	3
585:	3	3	2	5	3	5	4	9
593:	3	4	10	8	17	2	6	8
601:	6	2	5	7	10	9	11	8
609:	10	15	17	10	12	11	8	9
617:	13	8	3	4	3	0	0	1
625:	0	0	0	0	0	1	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	1	0	0	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	1
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	1	1	0	1
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	1
945:	0	0	0	1	0	1	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KD 8/17/15

Sample Description: FEEBRIS1D-20 080-081
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 126366
Reagent Blank: <not performed>

Sample Size: 1.684E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:08 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.2009 +/- 0.0113
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 1.1312 +/- 0.0668

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.276	380.79	10.08	2.21	0.00E+000	10.1
U-234		4.719	24.47	41.05	1.53	0.00E+000	3.0
U-235		4.390	1.45	284.62	2.55	0.00E+000	3.0
U-238		4.147	11.96	62.07	2.04	0.00E+000	4.5

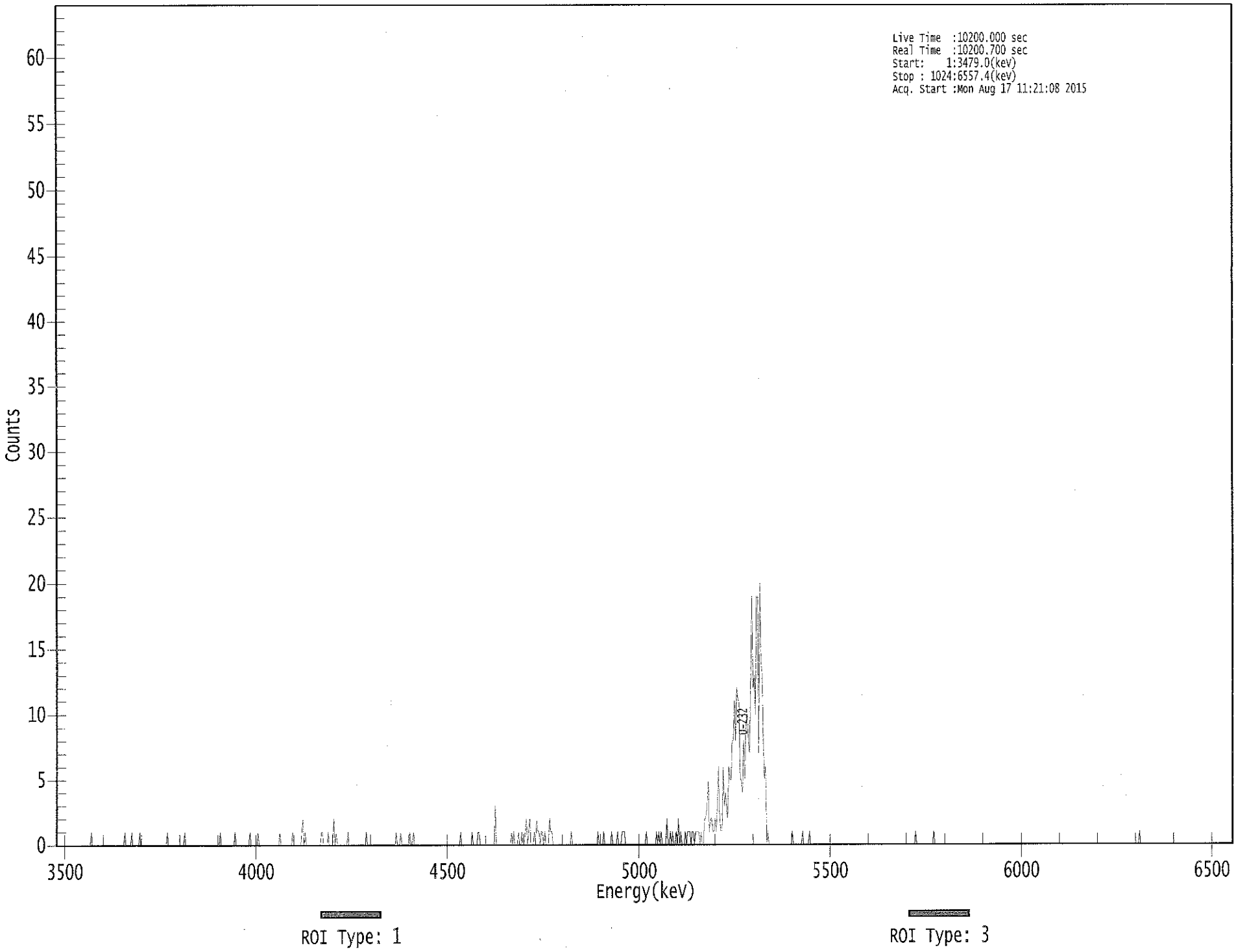
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.995	5302.50*	2.99E+001 +/- 3.30E+000	6.28E-001 +/- 6.93E-002
U-234	0.987	4761.50*	1.92E+000 +/- 8.16E-001	5.58E-001 +/- 6.16E-002
U-235	1.000	4385.50*	1.40E-001 +/- 4.00E-001	8.12E-001 +/- 8.97E-002
U-238	0.990	4184.40*	9.34E-001 +/- 5.89E-001	6.09E-001 +/- 6.72E-002

AG 8/18/15

0000126197.CNF



00124

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	1	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	1	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	1	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	1	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	1
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	1	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	1	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	1	0	0	0	0	0	0	1
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	1	0	0	0	0	0
201:	0	0	0	0	0	1	0	0
209:	0	0	0	0	0	1	2	0
217:	1	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	1	1
233:	0	0	0	0	1	0	0	0
241:	0	2	0	1	0	0	0	0
249:	0	0	0	0	0	1	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	1	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	1
297:	0	0	0	1	0	0	0	0
305:	0	0	0	1	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	1
353:	0	0	0	0	0	0	0	0
361:	0	1	0	0	0	0	1	1

369:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
377:	0	0	0	0	0	3	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	1	0	1	0	0
401:	0	1	0	0	1	0	0	1
409:	2	0	1	2	0	0	0	1
417:	0	2	1	1	0	1	1	0
425:	1	0	0	0	2	1	1	0
433:	0	0	0	0	0	0	0	0
441:	0	0	0	0	0	0	0	1
449:	0	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	1	0
473:	0	0	0	1	0	0	0	0
481:	0	0	1	0	0	0	0	1
489:	0	0	0	1	1	1	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	1	0	0	0	0	0	0	0
521:	0	1	0	1	0	1	0	0
529:	0	0	2	0	0	1	0	1
537:	0	0	1	0	2	0	1	0
545:	0	0	1	0	1	1	1	0
553:	1	1	0	1	1	1	1	0
561:	1	0	0	2	2	3	5	1
569:	2	2	1	1	2	1	3	6
577:	2	1	1	6	3	4	3	2
585:	6	5	5	8	8	11	8	12
593:	11	11	5	5	4	8	5	9
601:	10	8	7	13	19	12	13	10
609:	19	19	7	20	14	13	8	5
617:	6	0	1	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	1
641:	0	0	0	0	0	0	0	0
649:	1	0	0	0	0	0	1	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	1	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	1	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	1	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

ICB 8/19/15

Apex-Alpha™

Sample Description: DUPLICATE 5
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_047
Chamber Serial Number: 02030596A
Detector Serial Number: 91086
Env. Background: System Bkgd 126367
Reagent Blank: <not performed>

Sample Size: 2.507E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:11 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.600 mL
Effective Efficiency: 0.1605 +/- 0.0099
Counting Efficiency: 0.1650 +/- 0.0029 on 10/25/2014 3:23:35 PM
Chem. Recovery Factor: 0.9724 +/- 0.0626

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.272	303.66	11.26	0.34	0.00E+000	6.6
U-234		4.719	31.83	34.85	0.17	0.00E+000	5.9
U-235		4.359	5.83	82.55	0.17	0.00E+000	3.0
U-238		4.144	15.83	49.57	0.17	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.994	5302.50*	2.00E+001 +/- 2.43E+000	3.16E-001 +/- 3.83E-002
U-234	0.987	4761.50*	2.10E+000 +/- 7.75E-001	2.75E-001 +/- 3.34E-002
U-235	0.995	4385.50*	4.75E-001 +/- 3.96E-001	3.40E-001 +/- 4.12E-002
U-238	0.988	4184.40*	1.04E+000 +/- 5.31E-001	2.74E-001 +/- 3.32E-002

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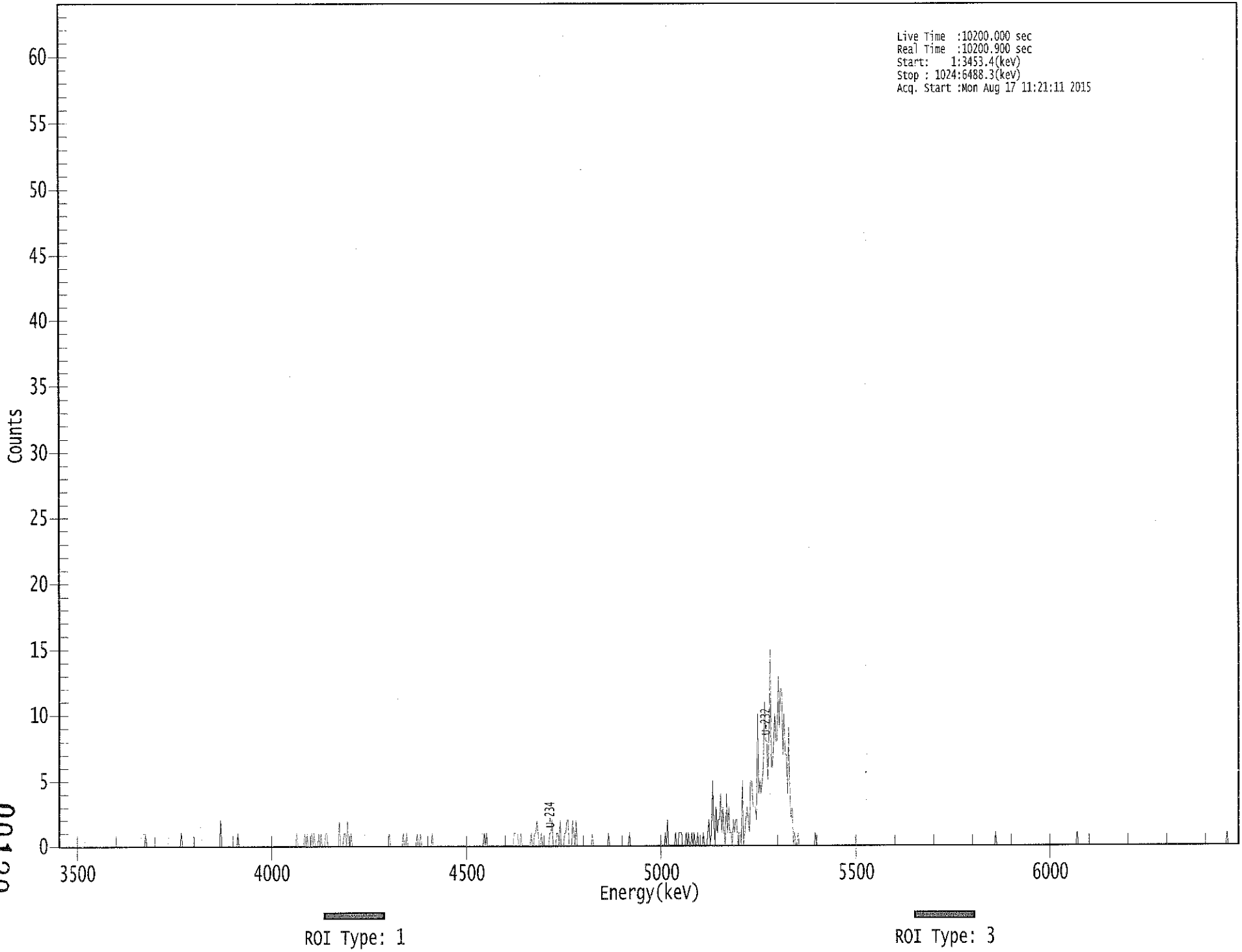
00128

0000126203.CNF



00129

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	1	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	2	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	1	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	1	0
209:	0	0	0	0	0	1	0	1
217:	0	0	0	1	0	1	0	0
225:	0	1	0	1	0	0	0	1
233:	1	0	0	0	0	0	0	0
241:	0	0	0	2	0	0	0	1
249:	1	0	2	0	0	1	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	0	0
297:	0	0	1	0	0	1	0	0
305:	0	0	0	0	0	0	1	0
313:	0	1	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	1	0	1	0	0	0	0	0

Sample Title: 09

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	1	1	1	1	0	0
401:	1	0	0	0	0	0	0	0
409:	0	1	0	0	1	1	2	1
417:	0	0	1	0	0	0	0	0
425:	0	1	1	2	0	0	0	1
433:	1	0	2	0	0	0	1	1
441:	2	2	0	0	0	2	1	0
449:	2	0	0	0	0	0	0	0
457:	0	0	0	0	0	0	1	0
465:	0	0	0	0	0	0	0	0
473:	0	0	0	0	1	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	1	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	2
529:	0	0	0	0	0	0	1	0
537:	0	1	1	1	0	0	0	1
545:	0	1	0	0	1	0	1	0
553:	0	1	0	0	0	0	1	0
561:	0	0	1	2	0	1	5	2
569:	0	3	1	2	2	4	1	3
577:	1	0	4	1	3	1	1	0
585:	2	1	2	2	0	1	1	0
593:	5	0	1	2	3	2	1	5
601:	5	3	3	3	2	10	4	5
609:	4	5	6	11	8	8	5	9
617:	15	6	6	8	10	8	8	13
625:	9	12	12	7	10	7	7	4
633:	9	4	2	3	0	1	0	0
641:	1	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	1
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 09

Channel								
809:	0	0	0	1	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	1	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	1	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

KD 8/17/15

Sample Description: FEEBRIS1D-20 089-090
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001262
Batch Identification: 1508002A-UU
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_048
Chamber Serial Number: 02030596B
Detector Serial Number: 83111
Env. Background: System Bkgd 126368
Reagent Blank: <not performed>

Sample Size: 1.020E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:13 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1586 +/- 0.0099
Counting Efficiency: 0.1700 +/- 0.0030 on 10/25/2014 3:27:02 PM
Chem. Recovery Factor: 0.9324 +/- 0.0604

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.278	300.30	11.35	1.70	0.00E+000	31.2
U-234		4.742	20.49	43.93	0.51	0.00E+000	7.4
U-235		4.487	1.66	169.38	0.34	0.00E+000	3.0
U-238		4.146	24.32	40.39	0.68	0.00E+000	3.7

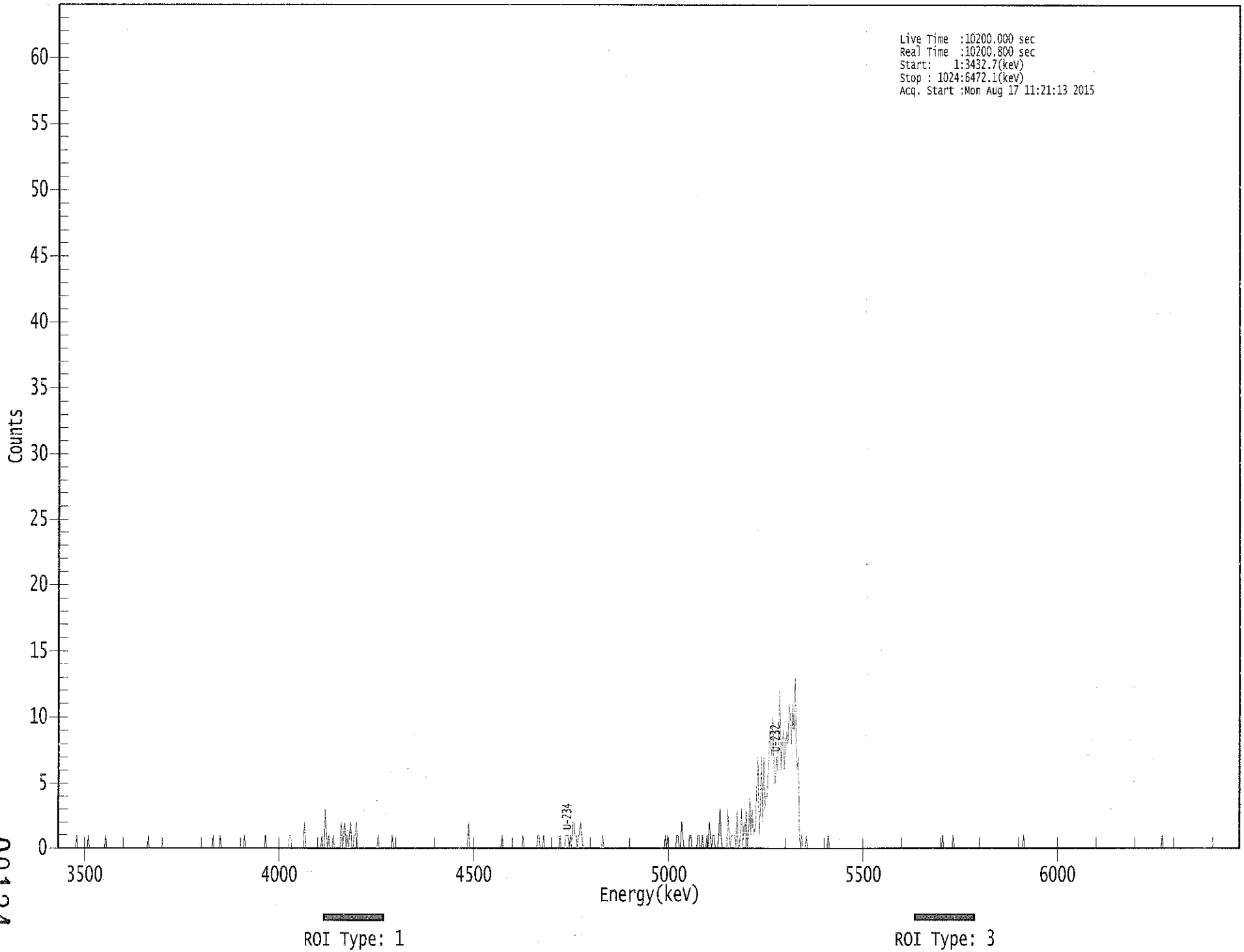
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.996	5302.50*	4.93E+001 +/- 6.02E+000	1.21E+000 +/- 1.47E-001
U-234	0.997	4761.50*	3.36E+000 +/- 1.53E+000	8.61E-001 +/- 1.05E-001
U-235	0.929	4385.50*	3.36E-001 +/- 5.71E-001	9.68E-001 +/- 1.18E-001
U-238	0.989	4184.40*	3.98E+000 +/- 1.68E+000	9.22E-001 +/- 1.13E-001

AG 8/18/15

0000126204.CNF



001134

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	1	0	0	0	0	0	0	0
25:	0	0	1	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	1	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	1	0
137:	0	0	0	0	1	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	1	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	1	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	1	1	0	0	0	0	0	0
209:	0	0	0	0	0	2	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	1	0	0	3
233:	1	0	1	0	0	0	1	0
241:	0	0	0	0	0	2	0	1
249:	2	0	1	0	1	2	0	0
257:	1	1	2	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	1	0	0
281:	0	0	0	0	0	0	0	0
289:	0	1	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	2	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
377:	0	0	0	0	0	0	0	0
385:	1	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	1	0	0	0	0	0
409:	0	0	0	0	0	0	0	1
417:	1	0	0	0	1	0	0	0
425:	0	0	0	0	0	0	0	0
433:	0	0	1	0	0	0	0	1
441:	1	1	0	1	0	2	2	1
449:	1	0	1	1	2	1	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	0	0	0	0	1
473:	0	0	0	0	0	0	0	0
481:	0	0	0	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	0	0	0	0
505:	0	0	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	1	0	1
529:	0	0	0	0	0	0	0	1
537:	1	0	0	2	1	0	0	0
545:	0	0	1	1	0	0	0	0
553:	0	1	1	0	0	1	0	0
561:	0	1	0	2	1	0	1	1
569:	0	0	0	1	3	1	0	0
577:	0	0	0	3	1	0	1	1
585:	1	1	0	3	0	0	1	3
593:	0	2	1	3	0	1	4	1
601:	3	1	1	2	5	7	1	3
609:	7	2	7	3	4	4	6	9
617:	8	7	10	5	5	7	6	10
625:	12	6	8	9	6	8	9	8
633:	11	10	8	11	9	13	8	6
641:	7	1	0	1	0	0	0	1
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	1	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	1	0	0
769:	0	0	0	0	0	0	1	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	1	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	1	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KG 9/17/15

Apex-Alpha™

Sample Description: FEEBRIS1D-7 084-085
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001261
Batch Identification: 1508002A-UU
Sample Identification: 11
Sample Geometry: Shelf 2
Procedure Description: U iso

Detector Name: Alpha_049
Chamber Serial Number: 10006121A
Detector Serial Number: 49
Env. Background: System Bkgd 126369
Reagent Blank: <not performed>

Sample Size: 1.400E-003 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 6:17:07 AM
Acquisition Date/Time: 8/17/2015 11:21:33 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: U232_UU-10A
Tracer Quantity: 0.601 mL
Effective Efficiency: 0.1144 +/- 0.0082
Counting Efficiency: 0.1525 +/- 0.0027 on 12/13/2014 2:45:02 PM
Chem. Recovery Factor: 0.7498 +/- 0.0555

Peak Match Tolerance: 0.150 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
U-232	T	5.287	216.66	13.33	0.34	0.00E+000	13.0
U-234		4.745	22.49	41.87	0.51	0.00E+000	3.0
U-235		4.426	2.00	169.74	0.00	0.00E+000	3.0
U-238		4.163	13.49	54.53	0.51	0.00E+000	5.9

T = Tracer Peak used for Effective Efficiency

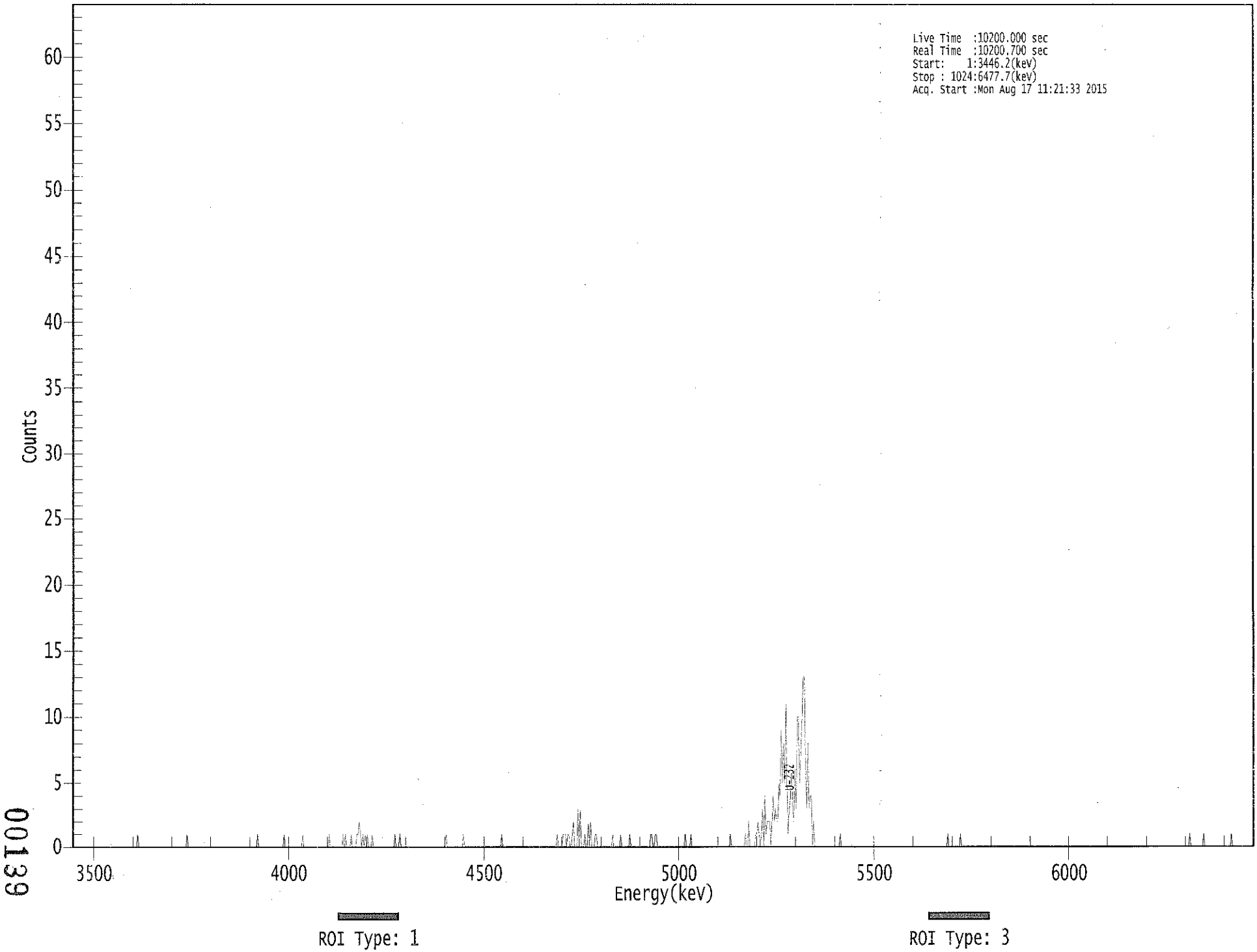
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
U-232	0.998	5302.50*	3.59E+003 +/- 5.06E+002	7.93E+001 +/- 1.12E+001
U-234	0.998	4761.50*	3.73E+002 +/- 1.65E+002	8.70E+001 +/- 1.22E+001
U-235	0.989	4385.50*	4.09E+001 +/- 6.97E+001	1.23E+002 +/- 1.73E+001
U-238	0.997	4184.40*	2.23E+002 +/- 1.25E+002	8.66E+001 +/- 1.22E+001

KG 8/18/15

00138

0000126198.CNF



00139

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	1	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	1	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	0	0	0	0	0	0
161:	1	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	1
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	1	0
225:	0	0	0	0	0	0	0	0
233:	0	0	1	0	1	0	0	0
241:	0	1	0	0	0	0	1	1
249:	2	1	0	1	0	1	0	1
257:	0	0	0	1	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	1
281:	0	0	0	1	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	1	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	1	0	0	0	0

Sample Title: 11

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	0	0	0	0	0	0
409:	0	0	0	0	0	0	0	0
417:	0	0	0	1	0	0	0	0
425:	1	1	1	0	1	1	0	0
433:	1	2	0	0	0	3	0	3
441:	0	0	0	1	0	0	2	0
449:	2	0	0	0	1	1	0	0
457:	0	0	0	0	0	0	0	0
465:	0	0	0	1	0	0	0	0
473:	0	0	1	0	0	0	0	0
481:	0	0	1	0	0	0	0	0
489:	0	0	0	0	0	0	0	0
497:	0	0	0	0	1	1	0	0
505:	1	1	0	0	0	0	0	0
513:	0	0	0	0	0	0	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	1	0	0	0	0	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	1	0	0	0	0	0	0
577:	0	0	0	0	0	0	1	0
585:	0	2	0	0	0	0	0	1
593:	1	2	1	0	1	3	0	4
601:	1	2	2	2	0	2	4	2
609:	3	2	2	5	4	9	5	8
617:	5	11	5	1	3	4	6	3
625:	2	6	3	10	10	5	7	10
633:	13	13	7	3	8	3	4	4
641:	0	2	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	1	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	1	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	1	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	1	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

8/17/2015 5:40:11 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 8/17/2015
Time : 5:40:11 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	8/17/2015 5:17:39 AM
Alpha_004	21f	ALL	Passed	8/17/2015 5:17:40 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	8/17/2015 5:17:40 AM
Alpha_011	21f	ALL	Passed	8/17/2015 5:17:41 AM
Alpha_012	21f	ALL	Passed	8/17/2015 5:17:42 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	8/17/2015 5:17:43 AM
Alpha_015	21f	ALL	Passed	8/17/2015 5:17:44 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:45 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:47 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:49 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:50 AM
Alpha_037	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:52 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	8/17/2015 5:17:54 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:56 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:58 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:17:59 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:01 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:04 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:06 AM
Alpha_045	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:09 AM
Alpha_046	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:13 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:17 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:20 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:24 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:27 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:31 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:34 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:38 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:41 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:45 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:49 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:52 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:18:56 AM

Review of QA Results - Pulser Check

8/17/2015 5:40:11 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:19:00 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	8/17/2015 5:19:04 AM

APPROVED BY: _____

APPROVAL DATE: 8/17

****
***** L I B R A R Y L I S T I N G R E P O R T *****
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Nuclide Library Title: Uranium

Nuclide Library Description: U-232,-234,-235,-238

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
U-232	2.174E+009	5302.500*	0.000	99.8000	0.0000
U-234	7.731E+012	4761.500*	0.000	99.8000	0.0000
U-235	2.221E+016	4385.500*	0.000	80.9000	0.0000
U-238	1.410E+017	4184.400*	0.000	100.2300	0.0000

* = key line

TOTALS: 4 Nuclides 4 Energy Lines

SECTION IX

ANALYTICAL DATA (ISOTOPIC THORIUM)

15-08002
ThISO
Run 1

Work Order	15-08002
Analysis Code	ThISO
Run	1
Date Received	8/3/2015
Lab Deadline	8/25/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	EML Th-01 Modified
Instrument Type	Alpha Spectroscopy
Radiometric Tracer	Th-229
Radiometric Sol#	Th-18a
Tracer Act (dpm/g)	22.46
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		08/03/15 00:00	1.0000E+00
02	MBL	BLANK		08/03/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-8 090-091	65	07/29/15 09:41	1.0056E+00
04	TRG	FEEBRIS1D-8 075-076	82	07/29/15 09:06	5.6140E-01
05	DO	FEEBRIS1D-8 090-091	65	07/29/15 09:41	1.0162E+00
06	TRG	FEEBRIS1D-4 061-062	90	07/30/15 07:35	5.0280E-01
07	TRG	FEEBRIS1D-4 064-065	69	07/30/15 07:40	1.0022E+00
08	TRG	FEEBRIS1D-20 080-081	153	07/30/15 09:57	5.1880E-01
09	TRG	DUPLICATE 5	77	07/30/15 09:57	1.0248E+00
10	TRG	FEEBRIS1D-20 089-090	101	07/30/15 10:24	5.2480E-01
11	TRG	FEEBRIS1D-7 084-085	7570	07/24/15 08:07	5.7280E-03

001417

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS	0.4669	10.5		0.00								
02	MBL	0.2343	5.3		0.00								
03	DUP	0.2338	5.3		0.00								
04	TRG	0.2332	5.2		0.00								
05	DO	0.2329	5.2		0.00								
06	TRG	0.2319	5.2		0.00								
07	TRG	0.2326	5.2		0.00								
08	TRG	0.2322	5.2		0.00								
09	TRG	0.2320	5.2		0.00								
10	TRG	0.2324	5.2		0.00								
11	TRG	0.2320	5.2		0.00								

00148

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-08002
ThISO
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			08/12/15 06:31	JWOLFE				
02	MBL			08/12/15 06:31	JWOLFE				
03	DUP			08/12/15 06:31	JWOLFE				
04	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
05	DO	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
06	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
07	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
08	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
09	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
10	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				
11	TRG	08/04/15 07:03	KSALLINGS	08/12/15 06:31	JWOLFE				

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-228	LCS	LCS	pCi/g	5.85E+00	9.93E-01	8.17E-02	4.87E+00	120.28	OK		OK	
02	TH-228	MBL	BLANK	pCi/g	4.60E-03	4.55E-02	1.13E-01					OK	OK
03	TH-228	DUP	FEEBRIS1D-8 090-091	pCi/g	7.25E-01	2.36E-01	9.13E-02				NA	OK	
04	TH-228	TRG	FEEBRIS1D-8 075-076	pCi/g	2.63E-01	1.72E-01	1.44E-01					OK	
05	TH-228	DO	FEEBRIS1D-8 090-091	pCi/g	3.13E-01	1.75E-01	1.25E-01					OK	
06	TH-228	TRG	FEEBRIS1D-4 061-062	pCi/g	1.11E+00	4.25E-01	2.06E-01					INV	
07	TH-228	TRG	FEEBRIS1D-4 064-065	pCi/g	6.94E-01	2.16E-01	7.70E-02					OK	
08	TH-228	TRG	FEEBRIS1D-20 080-081	pCi/g	4.59E-02	1.27E-01	2.75E-01					INV	
09	TH-228	TRG	DUPLICATE 5	pCi/g	1.79E-01	1.51E-01	1.80E-01					OK	
10	TH-228	TRG	FEEBRIS1D-20 089-090	pCi/g	1.36E+00	4.42E-01	1.44E-01					OK	
11	TH-228	TRG	FEEBRIS1D-7 084-085	pCi/g	-1.47E-01	9.00E+00	2.19E+01					INV	

00150

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-228	LCS	08/03/15 00:00	1.00E+00	86.82	0.00	0.00			
02	TH-228	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-228	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-228	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-228	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-228	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-228	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-228	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-228	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-228	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-228	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

Work Order: 15-08002-ThISO-1

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-228	LCS	08/14/15 11:20		A_Spec	Alpha_034	170	3.43 E+02	2.00 E-03	17.9
02	TH-228	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	3.00 E-01	1.00 E-02	18.1
03	TH-228	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	5.00 E+01	6.00 E-03	17.1
04	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	1.03 E+01	4.00 E-03	16.2
05	TH-228	DO	08/14/15 11:20		A_Spec	Alpha_039	170	1.50 E+01	0.00 E+00	19.3
06	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	3.40 E+01	6.00 E-03	18.6
07	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	5.40 E+01	0.00 E+00	18.7
08	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	1.00 E+00	0.00 E+00	17.4
09	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	7.30 E+00	1.00 E-02	20
10	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	4.95 E+01	3.00 E-03	18.4
11	TH-228	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	-6.00 E-02	1.80 E-02	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-230	LCS	LCS	pCi/g	6.46E+00	1.08E+00	7.13E-02	5.37E+00	120.22	OK		OK	
02	TH-230	MBL	BLANK	pCi/g	7.42E-02	6.86E-02	6.41E-02					OK	OK
03	TH-230	DUP	FEEBRIS1D-8 090-091	pCi/g	3.83E-01	1.59E-01	5.96E-02				INV	OK	
04	TH-230	TRG	FEEBRIS1D-8 075-076	pCi/g	3.54E+00	8.22E-01	1.50E-01					OK	
05	TH-230	DO	FEEBRIS1D-8 090-091	pCi/g	9.93E-01	3.42E-01	1.16E-01					OK	
06	TH-230	TRG	FEEBRIS1D-4 061-062	pCi/g	1.84E+00	5.78E-01	1.81E-01					OK	
07	TH-230	TRG	FEEBRIS1D-4 064-065	pCi/g	7.73E-01	2.33E-01	1.11E-01					OK	
08	TH-230	TRG	FEEBRIS1D-20 080-081	pCi/g	1.36E+00	5.67E-01	2.71E-01					INV	
09	TH-230	TRG	DUPLICATE 5	pCi/g	1.43E+00	4.76E-01	1.36E-01					OK	
10	TH-230	TRG	FEEBRIS1D-20 089-090	pCi/g	1.43E+00	4.52E-01	1.13E-01					OK	
11	TH-230	TRG	FEEBRIS1D-7 084-085	pCi/g	1.67E+04	2.75E+03	2.30E+01					INV	

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Run	1
Analysis Code	ThISO
Eberline Services Work Order	15-08002
Client	AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-230	LCS	08/03/15 00:00	1.00E+00	86.82	0.00	0.00			
02	TH-230	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-230	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-230	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-230	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-230	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-230	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-230	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-230	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-230	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-230	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

00154

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-230	LCS	08/14/15 11:20		A_Spec	Alpha_034	170	3.78 E+02	1.00 E-03	17.9
02	TH-230	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	4.83 E+00	1.00 E-03	18.1
03	TH-230	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	2.68 E+01	1.00 E-03	17.1
04	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	1.41 E+02	0.00 E+00	16.2
05	TH-230	DO	08/14/15 11:20		A_Spec	Alpha_039	170	4.83 E+01	4.00 E-03	19.3
06	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	5.73 E+01	4.00 E-03	18.6
07	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	6.10 E+01	1.19 E-02	18.7
08	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	3.00 E+01	0.00 E+00	17.4
09	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	5.93 E+01	4.00 E-03	20
10	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	5.28 E+01	1.00 E-03	18.4
11	TH-230	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	6.96 E+03	2.20 E-02	17.8

CS100

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	TH-232	LCS	LCS	pCi/g	4.89E+00	8.61E-01	8.95E-02	4.87E+00	100.48	OK		OK	
02	TH-232	MBL	BLANK	pCi/g	4.34E-02	5.28E-02	6.40E-02					OK	OK
03	TH-232	DUP	FEEBRIS1D-8 090-091	pCi/g	7.48E-01	2.38E-01	7.48E-02				OK	OK	
04	TH-232	TRG	FEEBRIS1D-8 075-076	pCi/g	2.38E-01	1.61E-01	1.31E-01					OK	
05	TH-232	DO	FEEBRIS1D-8 090-091	pCi/g	5.95E-01	2.49E-01	1.23E-01					OK	
06	TH-232	TRG	FEEBRIS1D-4 061-062	pCi/g	1.47E+00	4.98E-01	1.54E-01					OK	
07	TH-232	TRG	FEEBRIS1D-4 064-065	pCi/g	6.61E-01	2.14E-01	1.23E-01					OK	
08	TH-232	TRG	FEEBRIS1D-20 080-081	pCi/g	3.76E-01	2.83E-01	2.80E-01					INV	
09	TH-232	TRG	DUPLICATE 5	pCi/g	1.41E-01	1.20E-01	1.01E-01					OK	
10	TH-232	TRG	FEEBRIS1D-20 089-090	pCi/g	1.20E+00	4.07E-01	1.53E-01					OK	
11	TH-232	TRG	FEEBRIS1D-7 084-085	pCi/g	1.78E+02	5.07E+01	2.26E+01					INV	

00156

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	TH-232	LCS	08/03/15 00:00	1.00E+00	86.82	0.00	0.00			
02	TH-232	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-232	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-232	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-232	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-232	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-232	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-232	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-232	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-232	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-232	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	TH-232	LCS	08/14/15 11:20		A_Spec	Alpha_034	170	2.86 E+02	3.00 E-03	17.9
02	TH-232	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	2.83 E+00	1.00 E-03	18.1
03	TH-232	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	5.25 E+01	3.00 E-03	17.1
04	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	9.49 E+00	3.00 E-03	16.2
05	TH-232	DO	08/14/15 11:20		A_Spec	Alpha_039	170	2.90 E+01	0.00 E+00	19.3
06	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	4.57 E+01	2.00 E-03	18.6
07	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	5.23 E+01	1.59 E-02	18.7
08	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	8.32 E+00	3.97 E-03	17.4
09	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	5.83 E+00	1.00 E-03	20
10	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	4.43 E+01	4.00 E-03	18.4
11	TH-232	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	7.44 E+01	2.10 E-02	17.8

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Run: 1
Analysis Code: ThISO
Eberline Services Work Order: 15-08002
Client: AMO Environmental Decisions

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
02	TH-227	MBL	BLANK	pCi/g	-1.37E-02	3.54E-02	1.19E-01					OK	OK
03	TH-227	DUP	FEEBRIS1D-8 090-091	pCi/g	1.93E-02	4.19E-02	8.26E-02				INV	OK	
04	TH-227	TRG	FEEBRIS1D-8 075-076	pCi/g	1.88E-01	1.47E-01	1.45E-01					OK	
05	TH-227	DO	FEEBRIS1D-8 090-091	pCi/g	7.36E-02	8.47E-02	1.11E-01					OK	
06	TH-227	TRG	FEEBRIS1D-4 061-062	pCi/g	1.81E-01	1.63E-01	1.73E-01					OK	
07	TH-227	TRG	FEEBRIS1D-4 064-065	pCi/g	6.04E-02	6.76E-02	9.95E-02					OK	
08	TH-227	TRG	FEEBRIS1D-20 080-081	pCi/g	1.08E-01	1.70E-01	2.88E-01					INV	
09	TH-227	TRG	DUPLICATE 5	pCi/g	1.40E-01	1.34E-01	1.70E-01					OK	
10	TH-227	TRG	FEEBRIS1D-20 089-090	pCi/g	2.41E-01	1.69E-01	1.33E-01					OK	
11	TH-227	TRG	FEEBRIS1D-7 084-085	pCi/g	1.03E+02	3.59E+01	1.55E+01					INV	

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
02	TH-227	MBL	08/03/15 00:00	1.00E+00	95.74	0.00	0.00			
03	TH-227	DUP	07/29/15 09:41	1.01E+00	108.16	0.00	0.00			
04	TH-227	TRG	07/29/15 09:06	5.61E-01	116.68	0.00	0.00			
05	TH-227	DO	07/29/15 09:41	1.02E+00	65.69	0.00	0.00			
06	TH-227	TRG	07/30/15 07:35	5.03E-01	88.44	0.00	0.00			
07	TH-227	TRG	07/30/15 07:40	1.00E+00	111.59	0.00	0.00			
08	TH-227	TRG	07/30/15 09:57	5.19E-01	65.13	0.00	0.00			
09	TH-227	TRG	07/30/15 09:57	1.02E+00	53.66	0.00	0.00			
10	TH-227	TRG	07/30/15 10:24	5.25E-01	101.64	0.00	0.00			
11	TH-227	TRG	07/24/15 08:07	5.73E-03	109.28	0.00	0.00			

09T00

Preliminary Data Report & Analytical Calculations

Work Order: 15-08002-ThISO-1

Client: AMO Environmental Decisions
Eberline Services Work Order: 15-08002
Analysis Code: ThISO
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
02	TH-227	MBL	08/14/15 11:20		A_Spec	Alpha_036	170	-8.70 E-01	1.10 E-02	18.1
03	TH-227	DUP	08/14/15 11:20		A_Spec	Alpha_037	170	1.32 E+00	4.00 E-03	17.1
04	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_038	170	7.32 E+00	4.00 E-03	16.2
05	TH-227	DO	08/14/15 11:20		A_Spec	Alpha_039	170	3.49 E+00	3.00 E-03	19.3
06	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_040	170	5.49 E+00	3.00 E-03	18.6
07	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_041	170	4.65 E+00	7.95 E-03	18.7
08	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_042	170	2.32 E+00	3.97 E-03	17.4
09	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_043	170	5.64 E+00	8.00 E-03	20
10	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_044	170	8.66 E+00	2.00 E-03	18.4
11	TH-227	TRG	08/14/15 11:20		A_Spec	Alpha_046	170	4.20 E+01	6.00 E-03	17.8

Count Room Report
Client: AMO Environmental Decisio

15-08002-ThISO-1 (pCi/g) in SO
Tracer ID: Th-18a

#34-46

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	08/03/15 00:00	1.0000	0.4669	10.4866		0.00		
02	MBL	BLANK	08/03/15 00:00	1.0000	0.2343	5.2624		0.00		
03	DUP	FEEBRIS1D-8 090-091	07/29/15 09:41	1.0056	0.2338	5.2511		0.00		
04	TRG	FEEBRIS1D-8 075-076	07/29/15 09:06	0.5614	0.2332	5.2377		0.00		
05	DO	FEEBRIS1D-8 090-091	07/29/15 09:41	1.0162	0.2329	5.2309		0.00		
06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	0.5028	0.2319	5.2085		0.00		
07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	1.0022	0.2326	5.2242		0.00		
08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	0.5188	0.2322	5.2152		0.00		
09	TRG	DUPLICATE 5	07/30/15 09:57	1.0248	0.2320	5.2107		0.00		
10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	0.5248	0.2324	5.2197		0.00		
11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	0.0057	0.2320	5.2107		0.00		

00162

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
15-08002	1	ThISO	8/12/2015 6:13	JWOLFE	JW	

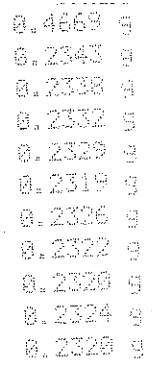
LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	Sol #	Activity dpm/g	Solution Date	Approx Addition	Volume Used (g)	Volume Used (g)	Volume Used (g)	Volume Used (g)	Known pCi	Error Estimate	Added pCi	Error Estimate	Known pCi	Error Estimate	Added pCi	Error Estimate
Th-228	Th-8b	103.560	8/12/2015	0.100	0.1043				4.87	0.175	0.00	0.000	0.00	0.000	0.00	0.000
Th-230	Th-1b	23.520	8/12/2015	0.500	0.5071				5.37	0.145	0.00	0.000	0.00	0.000	0.00	0.000
Th-232	Th-8b	103.560	8/12/2015	0.100	0.1043				4.87	0.175	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

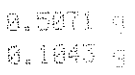
fraction	Isotope	Sol #	Activity dpm/g	Solution Date	Volume Used (g)	Approx Addition
01	Th-229	Th-18a	22.460	8/12/2015	0.4669	0.2200
02	Th-229	Th-18a	22.460	8/12/2015	0.2343	0.2200
03	Th-229	Th-18a	22.460	8/12/2015	0.2338	0.2200
04	Th-229	Th-18a	22.460	8/12/2015	0.2332	0.2200
05	Th-229	Th-18a	22.460	8/12/2015	0.2329	0.2200
06	Th-229	Th-18a	22.460	8/12/2015	0.2319	0.2200
07	Th-229	Th-18a	22.460	8/12/2015	0.2326	0.2200
08	Th-229	Th-18a	22.460	8/12/2015	0.2322	0.2200
09	Th-229	Th-18a	22.460	8/12/2015	0.2320	0.2200
10	Th-229	Th-18a	22.460	8/12/2015	0.2324	0.2200
11	Th-229	Th-18a	22.460	8/12/2015	0.2320	0.2200

Balance Printer Tapes

Tracer



LCS



Matrix Spike

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/12/2015 5:59 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-08002	1	ThISO	grams	8/25/2015	JWOLFE

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-8 090-091	DUP					1.0056E+00	1.0056E+00				
04	FEEBRIS1D-8 075-076	TRG		1	12.47	8.02E-02	7.0000E+00	5.6140E-01				
05	FEEBRIS1D-8 090-091	DO					1.0162E+00	1.0162E+00				
06	FEEBRIS1D-4 061-062	TRG					5.0280E-01	5.0280E-01				
07	FEEBRIS1D-4 064-065	TRG					1.0022E+00	1.0022E+00				
08	FEEBRIS1D-20 080-081	TRG					5.1880E-01	5.1880E-01				
09	DUPLICATE 5	TRG					1.0248E+00	1.0248E+00				
10	FEEBRIS1D-20 089-090	TRG					5.2480E-01	5.2480E-01				
11	FEEBRIS1D-7 084-085	TRG		1	698.32	1.43E-03	4.0000E+00	5.7280E-03				

Comments	

001164

Technician: JWOLFE Date: 8/12/15

EBERLINE SERVICES

Dilution Worksheet	**Internal Work Order**	15-08002
	Fraction	**> 04 <**
	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**8.02**	ml	from the original sample and diluted it to	**100**	ml	0.0802
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.0802**
Dilution Factor	**12.46882793**

00165

Diluted by: JW Date: 8/12/15

EBERLINE SERVICES

	Internal Work Order	15-08002
	Fraction	**> 11 <**
Dilution Worksheet	Analysis Code	**ThISO**
	Run Number	**1**
	Analyst	**JWOLFE**

Dilution Number	...	Amount Taken	Units	...	Diluted To	Units	Ratio
1	I took	**0.1432**	ml	from the original sample and diluted it to	**100**	ml	0.0014
2	I took		ml	from the 1st dilution and diluted it to		ml	
3	I took		ml	from the 2nd dilution and diluted it to		ml	
4	I took		ml	from the 3rd dilution and diluted it to		ml	
5	I took		ml	from the 4th dilution and diluted it to		ml	

Dilutions Taken	1

Dilution Ratio	**0.001432**
Dilution Factor	**698.3240223**

00166

Diluted by: JW Date 8/12/15

Muffle Worksheet

Work Order	Aliquot Units	Lab Deadline	Technician
15-08002	grams	8/25/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare Crucible Wt	Muffle Data Pre Wt/Vol	Muffle Data Post Wt/Vol	Muffle Calculations Pre Net Wt/Vol	Muffle Calculations Post-Net Wt/Vol	Muffle Calculations Ratio Post/Pre
04	FEEBRIS1D-8 075-076	103.0300	111.0500		8.0200		
05	FEEBRIS1D-8 090-091						
06	FEEBRIS1D-4 061-062						
07	FEEBRIS1D-4 064-065						
08	FEEBRIS1D-20 080-081						
09	DUPLICATE 5						
10	FEEBRIS1D-20 089-090						
11	FEEBRIS1D-7 084-085						

Comments

001671

Technician: Kenny Sallings Date: 8/4/15

Analysis: ThISO

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 8/4/2015 7:03 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-08002	8/25/2015	8/3/2015	8/4/2015	8/5/2015	KSALLINGS

Eberline	AMO Environmental Decisions	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	FEEBRIS1D-8 075-076	29.1400	1285.8400	939.6200	1256.7000	910.4800	27.55%	72.45%			
05	FEEBRIS1D-8 090-091	14.5200	1361.5600	1123.6600	1347.0400	1109.1400	17.66%	82.34%			
06	FEEBRIS1D-4 061-062	28.9300	1585.4000	1326.6400	1556.4700	1297.7100	16.62%	83.38%			
07	FEEBRIS1D-4 064-065	29.0900	1146.8400	987.6800	1117.7500	958.5900	14.24%	85.76%			
08	FEEBRIS1D-20 080-081	29.0500	1884.4500	1712.7000	1855.4000	1683.6500	9.26%	90.74%			
09	DUPLICATE 5	29.3000	1915.5000	1753.4000	1886.2000	1724.1000	8.59%	91.41%			
10	FEEBRIS1D-20 089-090	29.0600	1419.9000	1184.3000	1390.8400	1155.2400	16.94%	83.06%			
11	FEEBRIS1D-7 084-085	14.5600	643.0500	530.1000	628.4900	515.5400	17.97%	82.03%			

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

001168

Technician: Kenny Sallings Date: **Analysis: Rough Prep Logbook**

KB 9/14/15

Apex-Alpha™

Sample Description: SPIKE
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 01
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_034
Chamber Serial Number: 04026479B
Detector Serial Number: 91136
Env. Background: System Bkgd 125648
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/14/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:36 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.467 mL
Effective Efficiency: 0.1553 +/- 0.0105
Counting Efficiency: 0.1789 +/- 0.0031 on 10/25/2014 2:30:05 PM
Chem. Recovery Factor: 0.8682 +/- 0.0607

Control Certificate Name: NatTh_Th-8
Chem. Recov. of Control: TH-232 1.004791 +/- 0.095184
Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.751	6.49	80.40	0.51	0.00E+000	3.0
TH-228		5.349	342.66	10.59	0.34	0.00E+000	14.9
TH-229	T	4.871	276.83	11.78	0.17	0.00E+000	6.2
TH-230		4.610	377.83	10.09	0.17	0.00E+000	6.8
TH-232		3.947	286.49	11.59	0.51	0.00E+000	9.7

T = Tracer Peak used for Effective Efficiency

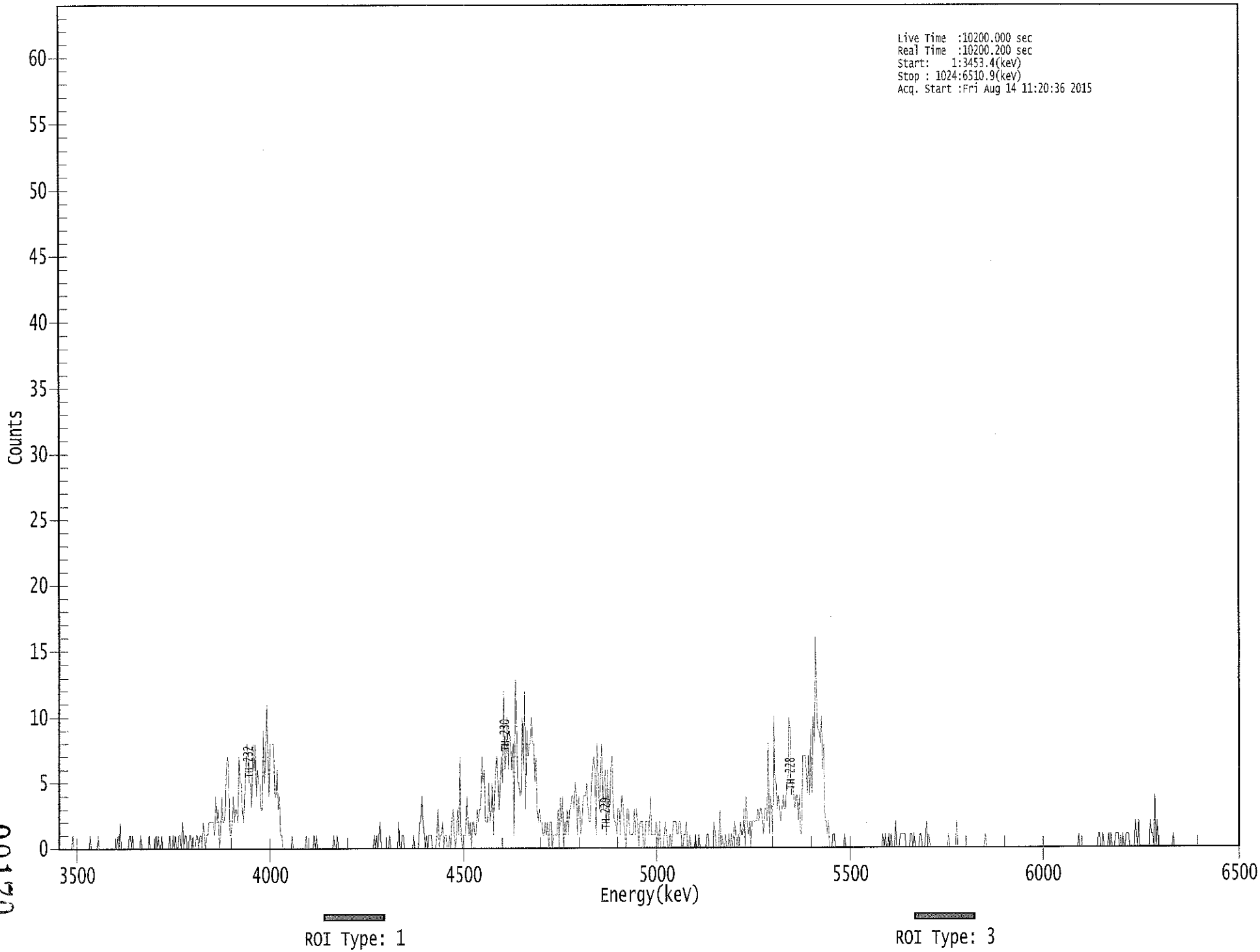
NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.950	5850.00*	1.14E-001 +/- 9.26E-002	9.18E-002 +/- 1.22E-002
TH-228	0.986	5400.00*	5.85E+000 +/- 9.93E-001	8.17E-002 +/- 1.08E-002
TH-229	1.000	4872.00*	4.75E+000 +/- 6.29E-001	7.16E-002 +/- 9.49E-003
TH-230	0.980	4672.00*	6.46E+000 +/- 1.08E+000	7.13E-002 +/- 9.46E-003
TH-232	0.987	3997.00*	4.89E+000 +/- 8.61E-001	8.95E-002 +/- 1.19E-002

AG 8/14/15

00169

0000125956.CNF



00170

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 01

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	1	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	1	0	0	0	0
33:	0	0	1	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	1	0	2	0	0
57:	0	0	0	0	0	1	1	0
65:	1	0	0	0	0	0	0	1
73:	0	0	0	0	0	0	1	0
81:	0	0	0	0	1	0	1	0
89:	0	1	0	0	0	0	0	0
97:	1	0	0	1	0	1	0	0
105:	1	1	0	2	0	1	1	0
113:	0	1	1	0	1	0	0	1
121:	1	0	1	1	0	2	1	0
129:	1	1	2	2	2	2	2	1
137:	4	2	3	0	1	4	2	2
145:	3	6	7	6	1	1	2	4
153:	2	3	3	2	7	5	5	3
161:	2	4	6	8	7	5	5	3
169:	8	6	8	4	6	5	5	3
177:	3	9	5	7	11	7	4	8
185:	8	8	8	4	4	6	3	4
193:	1	1	0	0	0	0	0	0
201:	0	0	1	0	0	0	0	0
209:	0	0	0	0	0	0	1	0
217:	0	0	0	0	0	1	0	1
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	1	0
241:	0	1	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	1	0	1	0	1	2	0
281:	0	0	0	0	0	0	1	0
289:	0	0	0	0	0	0	2	0
297:	0	1	1	0	0	0	0	0
305:	0	0	0	1	0	0	0	0
313:	2	2	4	2	1	0	1	0
321:	1	1	1	0	0	0	0	1
329:	3	0	1	1	2	0	1	1
337:	0	0	1	0	2	3	1	0
345:	1	3	1	7	1	0	1	1
353:	1	4	2	1	2	0	2	2
361:	1	1	3	2	3	3	7	5

369:	6	2	2	2	5	2	3	5

Sample Title: 01

Channel								
377:	1	4	6	7	5	3	5	7
385:	5	12	6	7	10	6	9	8
393:	6	8	1	13	11	5	5	4
401:	4	10	6	12	3	9	7	8
409:	8	10	8	8	5	7	3	2
417:	3	2	2	1	1	2	1	2
425:	0	2	2	0	1	1	1	1
433:	3	0	4	2	4	0	2	1
441:	3	1	3	3	4	4	3	5
449:	4	1	4	3	1	2	4	4
457:	4	5	3	2	2	5	6	7
465:	6	1	8	5	3	6	8	3
473:	5	6	1	6	2	3	6	7
481:	3	2	2	1	3	3	1	4
489:	4	2	1	0	3	3	1	1
497:	1	1	3	1	3	2	0	2
505:	2	2	0	0	2	2	2	1
513:	4	1	1	1	1	2	1	0
521:	2	0	0	0	1	2	1	0
529:	0	1	0	1	2	2	2	1
537:	1	2	2	0	0	1	1	2
545:	0	0	1	0	0	0	0	1
553:	0	0	1	0	0	0	0	0
561:	0	1	1	0	0	0	0	2
569:	1	0	0	0	3	0	1	0
577:	0	1	0	0	1	0	1	0
585:	1	2	1	0	1	0	2	1
593:	1	3	0	4	2	1	2	0
601:	2	2	2	2	2	3	2	3
609:	3	2	1	3	3	2	8	1
617:	4	3	1	10	5	5	3	4
625:	3	2	3	4	3	3	5	5
633:	10	9	4	5	4	3	4	4
641:	2	4	1	1	7	7	7	6
649:	4	7	4	9	4	10	8	16
657:	11	9	9	8	10	6	8	2
665:	2	1	2	0	0	0	1	1
673:	0	0	0	0	0	0	0	0
681:	1	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	1	0	1	0	0	1	0
721:	1	0	0	0	2	0	0	0
729:	1	1	1	1	1	0	0	0
737:	0	1	1	0	1	0	0	0
745:	0	1	1	0	0	0	1	2
753:	0	1	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	1	0	0	0	0	0
777:	0	2	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	1	0	0	0	0	0

Sample Title: 01

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	1	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	1	1	0	0
905:	1	0	0	0	0	1	0	1
913:	0	0	0	1	1	1	0	0
921:	0	1	0	0	1	1	1	0
929:	0	0	0	0	2	1	0	2
937:	0	0	0	0	0	0	0	0
945:	0	2	1	1	0	4	0	2
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	1	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KCB 8/14/15

Apex-Alpha™

Sample Description: BLANK
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 02
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_036
Chamber Serial Number: 04026477B
Detector Serial Number: 84167
Env. Background: System Bkgd 125650
Reagent Blank: <not performed>

Sample Size: 1.000E+000 +/- 0.000E+000 gram
Sample Date/Time: 8/14/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:38 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.1729 +/- 0.0149
Counting Efficiency: 0.1806 +/- 0.0032 on 10/25/2014 2:38:17 PM
Chem. Recovery Factor: 0.9574 +/- 0.0843

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.756	-0.87	258.63	1.87	0.00E+000	3.0
TH-228		5.394	0.30	988.46	1.70	0.00E+000	3.0
TH-229	T	4.874	154.66	15.78	0.34	0.00E+000	4.6
TH-230		4.637	4.83	91.00	0.17	0.00E+000	3.0
TH-232		3.951	2.83	120.53	0.17	0.00E+000	3.0

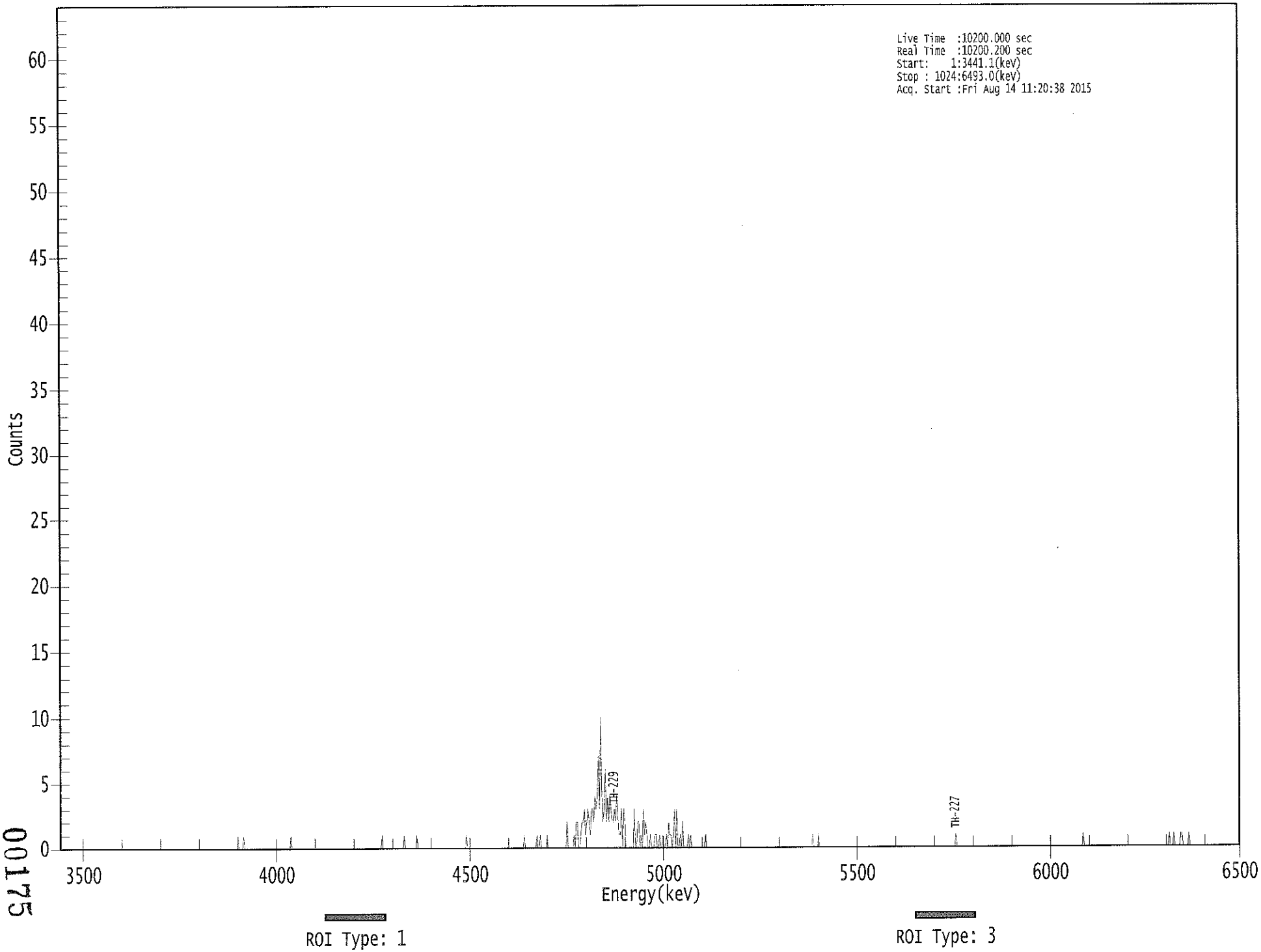
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.955	5850.00*	-1.37E-002 +/- 3.54E-002	1.19E-001 +/- 2.01E-002
TH-228	1.000	5400.00*	4.60E-003 +/- 4.55E-002	1.13E-001 +/- 1.91E-002
TH-229	1.000	4872.00*	2.38E+000 +/- 4.03E-001	7.36E-002 +/- 1.25E-002
TH-230	0.994	4672.00*	7.42E-002 +/- 6.86E-002	6.41E-002 +/- 1.08E-002
TH-232	0.989	3997.00*	4.34E-002 +/- 5.28E-002	6.40E-002 +/- 1.08E-002

AG
8/14/15

0000125957.CNF



00125

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 02

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	0	0	1	0	0	0	0	1
161:	0	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	1
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	1	0	0	0	0	0
305:	0	0	0	0	0	1	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	1	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
377:	0	0	0	0	0	0	0	0
385:	0	0	0	0	0	0	0	0
393:	0	0	0	0	0	0	0	0
401:	0	0	1	0	0	0	0	0
409:	0	0	0	0	0	1	0	0
417:	1	0	0	0	0	0	1	0
425:	0	0	0	0	0	0	0	0
433:	0	0	0	0	0	0	0	2
441:	0	0	0	0	0	1	0	2
449:	2	0	0	1	2	2	3	1
457:	2	3	2	1	3	3	2	4
465:	3	4	7	3	10	4	2	3
473:	6	2	4	2	4	3	2	2
481:	3	2	4	2	1	1	3	0
489:	3	2	0	0	0	0	0	0
497:	0	3	0	0	2	2	0	1
505:	0	3	1	2	1	0	0	1
513:	0	0	0	1	1	0	0	1
521:	0	0	1	0	0	1	0	2
529:	1	1	0	1	3	0	3	0
537:	0	1	0	2	0	0	0	0
545:	1	0	1	0	0	0	0	0
553:	0	0	0	0	0	0	0	1
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	1	0	0	0
657:	0	1	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	1	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 02

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	1	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	1	0	0	0	1	0	0
969:	0	0	0	1	1	0	0	0
977:	0	0	1	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

VB 8/14/15

Sample Description: FEEBRIS1D-8 090-091-DUP
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 03
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_037
Chamber Serial Number: 04026478A
Detector Serial Number: 91133
Env. Background: System Bkgd 125651
Reagent Blank: <not performed>

Sample Size: 1.006E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:40 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.234 mL
Effective Efficiency: 0.1848 +/- 0.0155
Counting Efficiency: 0.1709 +/- 0.0030 on 10/25/2014 2:46:09 PM
Chem. Recovery Factor: 1.0816 +/- 0.0928

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.818	1.32	215.97	0.68	0.00E+000	3.0
TH-228		5.371	49.98	28.05	1.02	0.00E+000	6.5
TH-229	T	4.871	165.00	15.30	0.00	0.00E+000	6.0
TH-230		4.636	26.83	37.98	0.17	0.00E+000	3.8
TH-232		3.964	52.49	27.21	0.51	0.00E+000	5.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.995	5850.00*	1.93E-002 +/- 4.19E-002	8.26E-002 +/- 1.36E-002
TH-228	0.996	5400.00*	7.25E-001 +/- 2.36E-001	9.13E-002 +/- 1.50E-002
TH-229	1.000	4872.00*	2.36E+000 +/- 3.89E-001	8.59E-002 +/- 1.41E-002
TH-230	0.993	4672.00*	3.83E-001 +/- 1.59E-001	5.96E-002 +/- 9.81E-003
TH-232	0.994	3997.00*	7.48E-001 +/- 2.38E-001	7.48E-002 +/- 1.23E-002

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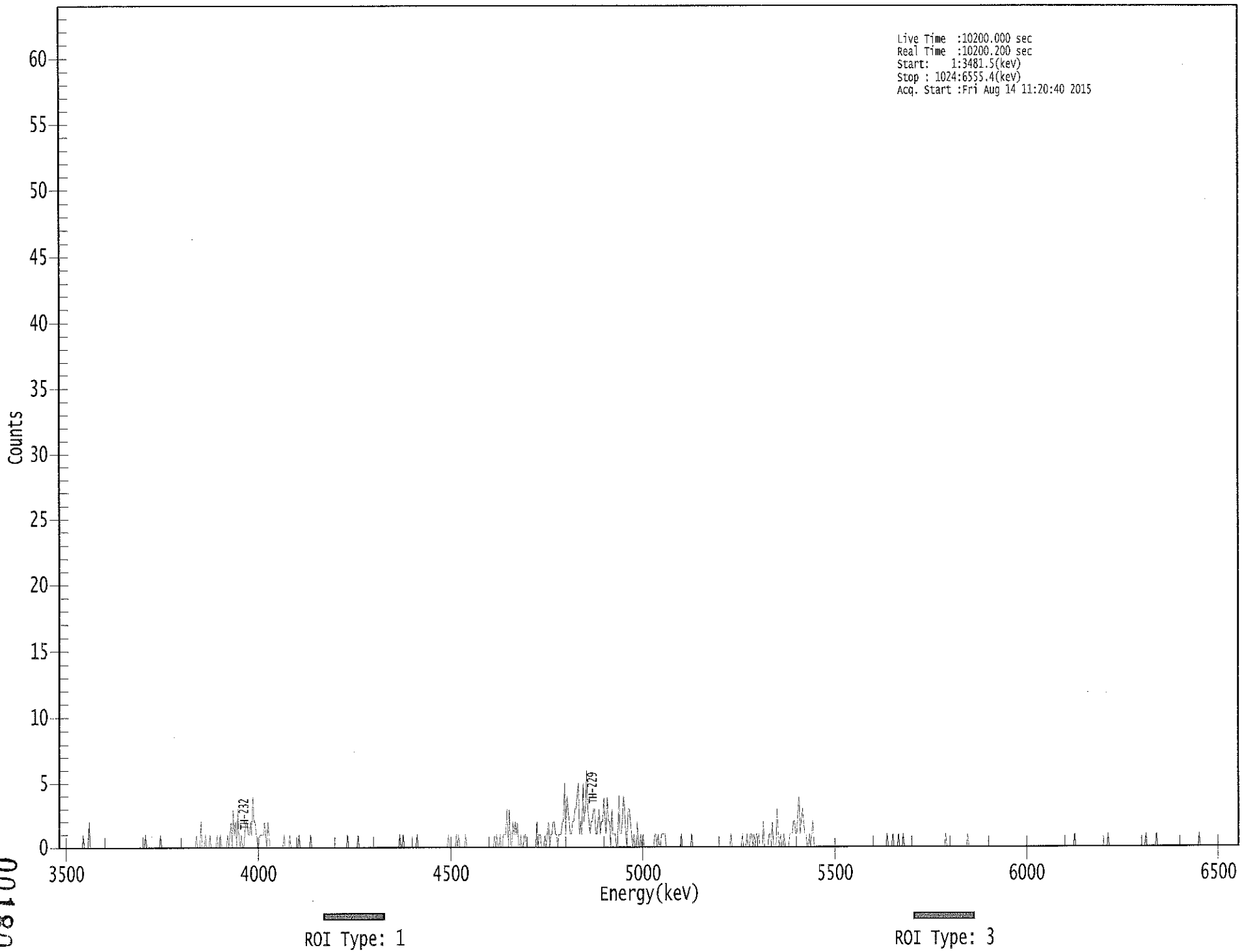
00179

0000125958.CNF



00180

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 03

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	1	0	0
25:	0	0	2	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	1	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	1
121:	0	0	0	2	0	0	0	1
129:	0	0	0	1	0	0	0	0
137:	0	1	0	0	1	0	0	0
145:	0	0	1	0	1	2	0	3
153:	1	2	0	3	1	0	1	0
161:	0	1	2	2	1	1	2	1
169:	4	2	2	1	0	0	1	1
177:	1	1	2	1	0	2	1	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	1	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	0	1	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	1	0	0	0	0	0
257:	0	0	0	1	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	1
297:	0	0	1	0	0	0	0	0
305:	0	0	0	0	0	0	1	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	1	0	0	0	0	0	0
345:	1	0	1	0	0	0	0	0
353:	1	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	0

369:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
377:	0	1	0	1	0	0	1	0
385:	0	1	1	1	3	0	3	0
393:	0	2	1	2	1	2	0	0
401:	1	0	0	1	1	0	0	0
409:	0	0	0	0	0	0	2	0
417:	1	1	0	0	0	1	0	1
425:	2	0	1	1	2	2	1	1
433:	0	1	1	1	2	2	5	1
441:	4	3	2	1	1	2	2	3
449:	3	4	5	1	2	1	5	2
457:	3	6	3	2	1	2	2	3
465:	3	1	1	2	3	1	2	2
473:	4	2	1	4	2	2	0	3
481:	1	1	1	0	0	4	1	1
489:	2	4	3	1	0	3	3	2
497:	1	0	1	0	0	2	0	0
505:	1	0	1	0	0	0	0	0
513:	0	0	0	0	1	1	0	1
521:	0	0	1	1	1	1	0	0
529:	0	0	0	0	0	0	0	0
537:	0	0	0	1	0	0	0	0
545:	0	0	0	0	1	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	1	0
585:	0	0	0	0	0	0	0	0
593:	1	0	0	0	1	0	0	1
601:	1	0	1	0	1	1	1	0
609:	0	0	2	0	0	0	0	1
617:	1	0	2	0	0	0	3	1
625:	0	1	0	0	1	0	0	0
633:	0	1	1	1	2	2	1	1
641:	3	4	1	2	3	2	1	1
649:	0	0	1	0	1	2	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	1	0	0
721:	0	0	1	0	0	0	0	1
729:	0	0	0	1	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	1	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	1	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 03

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	1	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	1	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	1	0
945:	0	0	0	0	0	0	0	1
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	1	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 075-076
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 04
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_038
Chamber Serial Number: 04026478B
Detector Serial Number: 91134
Env. Background: System Bkgd 125652
Reagent Blank: <not performed>

Sample Size: 5.614E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:41 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1885 +/- 0.0157
Counting Efficiency: 0.1615 +/- 0.0029 on 10/25/2014 2:50:18 PM
Chem. Recovery Factor: 1.1668 +/- 0.0993

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.811	7.32	76.28	0.68	0.00E+000	3.0
TH-228		5.389	10.32	63.32	0.68	0.00E+000	3.0
TH-229	T	4.880	167.83	15.14	0.17	0.00E+000	3.5
TH-230		4.653	141.00	16.56	0.00	0.00E+000	15.0
TH-232		3.908	9.49	65.59	0.51	0.00E+000	3.0

T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.992	5850.00*	1.88E-001 +/- 1.47E-001	1.45E-001 +/- 2.37E-002
TH-228	0.999	5400.00*	2.63E-001 +/- 1.72E-001	1.44E-001 +/- 2.34E-002
TH-229	1.000	4872.00*	4.22E+000 +/- 6.89E-001	1.05E-001 +/- 1.71E-002
TH-230	0.998	4672.00*	3.54E+000 +/- 8.22E-001	1.50E-001 +/- 2.45E-002
TH-232	0.960	3997.00*	2.38E-001 +/- 1.61E-001	1.31E-001 +/- 2.14E-002

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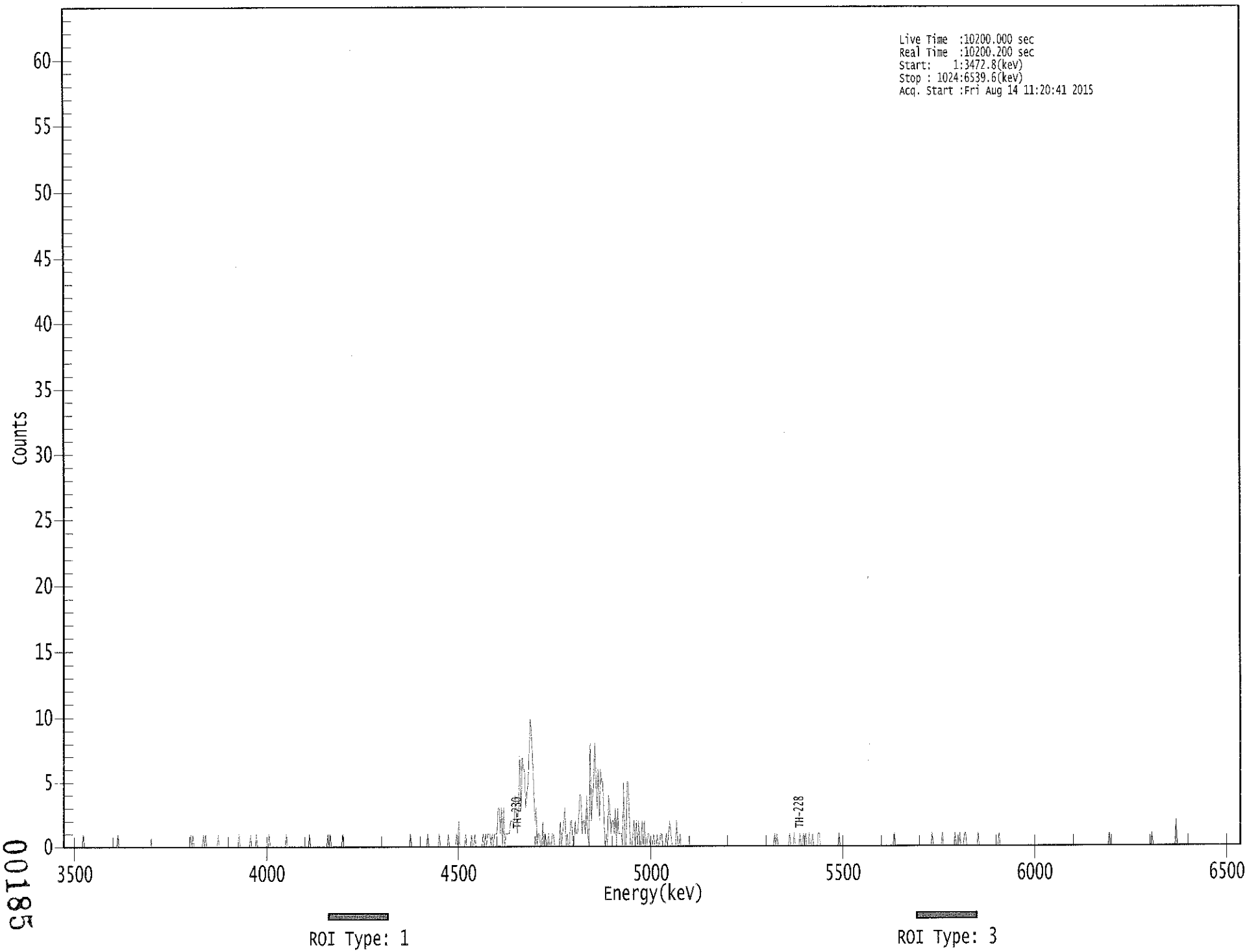
00184

0000125959.CNF



00185

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 04

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	1	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	1
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	1	0
113:	1	0	0	0	0	0	0	0
121:	0	1	0	1	0	0	0	0
129:	0	0	0	0	0	0	1	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	1	0	0	0	0	0	0	0
161:	0	0	1	0	0	0	0	1
169:	0	0	0	0	0	0	0	0
177:	0	0	1	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	1	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	1	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	1	0	1
233:	0	0	0	0	0	0	0	0
241:	0	0	1	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	1	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	0	0	0	1	0
329:	0	0	0	0	0	0	1	0
337:	0	0	0	0	0	1	0	2
345:	0	0	0	0	0	1	0	0
353:	0	0	1	0	0	1	0	0
361:	0	0	0	0	1	0	1	0

369:	1	1	1	0	1	0	1	1

Sample Title: 04

Channel								
377:	1	3	3	1	3	0	3	0
385:	1	1	1	1	2	2	2	2
393:	4	2	1	4	7	3	7	6
401:	6	3	4	5	7	10	9	7
409:	5	2	3	0	1	1	0	0
417:	2	0	1	0	0	1	0	0
425:	1	1	0	0	0	0	0	2
433:	0	1	2	3	0	1	0	0
441:	2	2	0	0	2	1	1	2
449:	4	4	1	2	2	1	4	1
457:	0	8	2	4	5	8	5	3
465:	6	2	6	5	5	2	0	1
473:	0	4	3	1	2	2	1	3
481:	0	3	1	1	1	0	5	0
489:	0	5	5	2	0	0	1	2
497:	0	2	0	2	0	0	2	0
505:	2	0	0	1	1	0	0	0
513:	1	0	0	1	0	0	1	1
521:	0	0	0	1	0	1	2	1
529:	0	0	0	0	2	0	0	1
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	1	0	1	0	0	0	0
625:	0	0	0	0	0	0	1	0
633:	0	0	1	0	0	0	0	1
641:	0	0	1	0	1	0	0	1
649:	0	0	1	0	0	0	0	1
657:	1	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	1	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	1	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	1	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	1	0
777:	0	0	1	0	0	0	1	1
785:	0	0	0	0	0	0	0	0
793:	0	0	1	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 04

Channel								
809:	0	0	0	0	1	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	1	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	1	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	2	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KCB 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-8 090-091
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 05
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_039
Chamber Serial Number: 06027396A
Detector Serial Number: 83109
Env. Background: System Bkgd 125653
Reagent Blank: <not performed>

Sample Size: 1.016E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/29/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:43 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.1271 +/- 0.0126
Counting Efficiency: 0.1934 +/- 0.0034 on 10/25/2014 2:53:34 PM
Chem. Recovery Factor: 0.6569 +/- 0.0663

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.926	3.49	113.53	0.51	0.00E+000	3.0
TH-228		5.305	15.00	52.27	0.00	0.00E+000	3.0
TH-229	T	4.829	113.00	18.52	0.00	0.00E+000	4.4
TH-230		4.603	48.32	28.43	0.68	0.00E+000	3.0
TH-232		3.918	29.00	37.02	0.00	0.00E+000	3.8

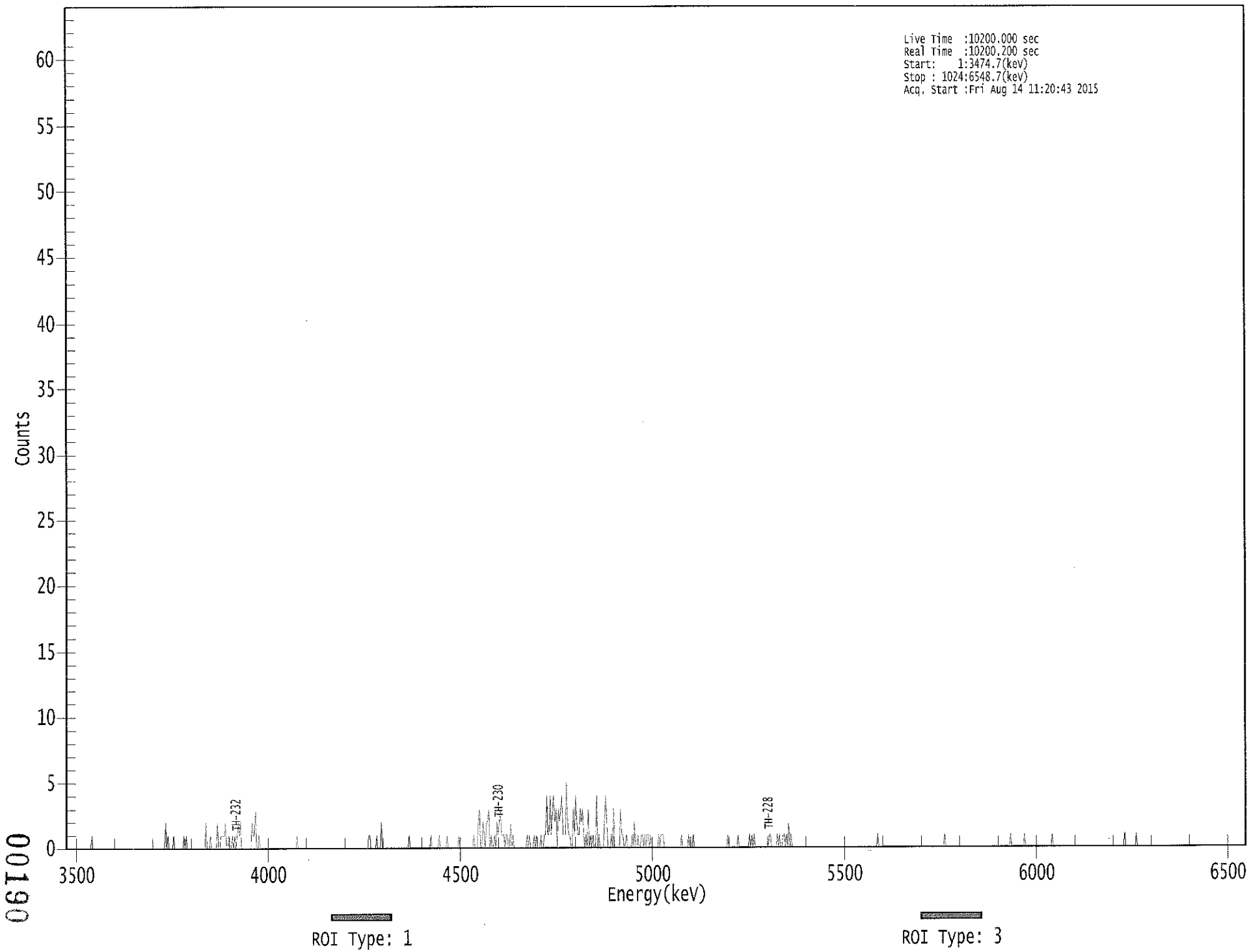
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.970	5850.00*	7.36E-002 +/- 8.47E-002	1.11E-001 +/- 2.16E-002
TH-228	0.954	5400.00*	3.13E-001 +/- 1.75E-001	1.25E-001 +/- 2.44E-002
TH-229	0.991	4872.00*	2.33E+000 +/- 4.54E-001	1.24E-001 +/- 2.41E-002
TH-230	0.975	4672.00*	9.93E-001 +/- 3.42E-001	1.16E-001 +/- 2.26E-002
TH-232	0.968	3997.00*	5.95E-001 +/- 2.49E-001	1.23E-001 +/- 2.40E-002

AG 8/14/15

0000125964.CNF



00190

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 05

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	1	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	2	0
89:	1	0	0	0	0	1	0	0
97:	0	0	0	0	0	0	1	0
105:	1	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	2	0	0	0	1	0	0
129:	0	0	0	2	0	0	1	1
137:	1	1	2	0	0	1	0	0
145:	1	0	1	0	1	2	1	2
153:	0	0	0	0	0	0	0	0
161:	0	2	1	1	3	0	0	1
169:	0	0	0	0	0	0	0	0
177:	0	0	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	1	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	1	1
265:	0	0	0	0	0	1	0	0
273:	0	2	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	1	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	1	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	1	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	2	3	0
361:	0	2	1	0	2	2	3	0

369:	1	0	0	1	0	2	1	2

Sample Title: 05

Channel								
377:	3	1	1	1	0	1	1	0
385:	0	2	0	1	0	0	0	0
393:	0	0	0	0	0	0	0	1
401:	0	1	0	0	0	1	0	1
409:	0	0	0	1	0	0	1	1
417:	4	1	1	4	1	3	4	2
425:	3	0	3	2	3	4	1	1
433:	1	5	2	1	1	0	0	3
441:	1	4	2	1	1	3	2	3
449:	1	0	1	0	3	0	1	0
457:	1	0	0	4	0	1	0	0
465:	0	0	2	4	2	0	0	0
473:	1	0	3	0	0	0	0	0
481:	3	1	1	0	0	1	0	0
489:	0	0	1	0	2	0	0	1
497:	0	0	1	1	0	1	0	1
505:	1	0	1	0	0	0	0	0
513:	0	1	0	1	1	1	0	0
521:	0	0	0	0	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	1	0	0	0	1
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	1	0	0
577:	0	0	0	0	0	0	1	0
585:	0	0	0	0	0	0	0	0
593:	1	0	1	0	1	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	1	1	0	0	0	0	0
617:	1	0	1	0	0	1	1	0
625:	1	0	2	0	1	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	1
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	1	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 05

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	1	0	0	0	0	0
825:	0	0	0	0	0	0	1	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	1	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	1	0	0
921:	0	0	0	0	0	0	0	1
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KB 8/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-4 061-062
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 06
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_040
Chamber Serial Number: 06027396B
Detector Serial Number: 91135
Env. Background: System Bkgd 125654
Reagent Blank: <not performed>

Sample Size: 5.028E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:45 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1641 +/- 0.0146
Counting Efficiency: 0.1856 +/- 0.0032 on 10/25/2014 2:57:14 PM
Chem. Recovery Factor: 0.8844 +/- 0.0800

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.843	5.49	88.08	0.51	0.00E+000	3.0
TH-228		5.376	33.98	34.21	1.02	0.00E+000	3.7
TH-229	T	4.877	145.32	16.30	0.68	0.00E+000	8.7
TH-230		4.636	57.32	26.07	0.68	0.00E+000	4.0
TH-232		3.961	45.66	29.13	0.34	0.00E+000	3.4

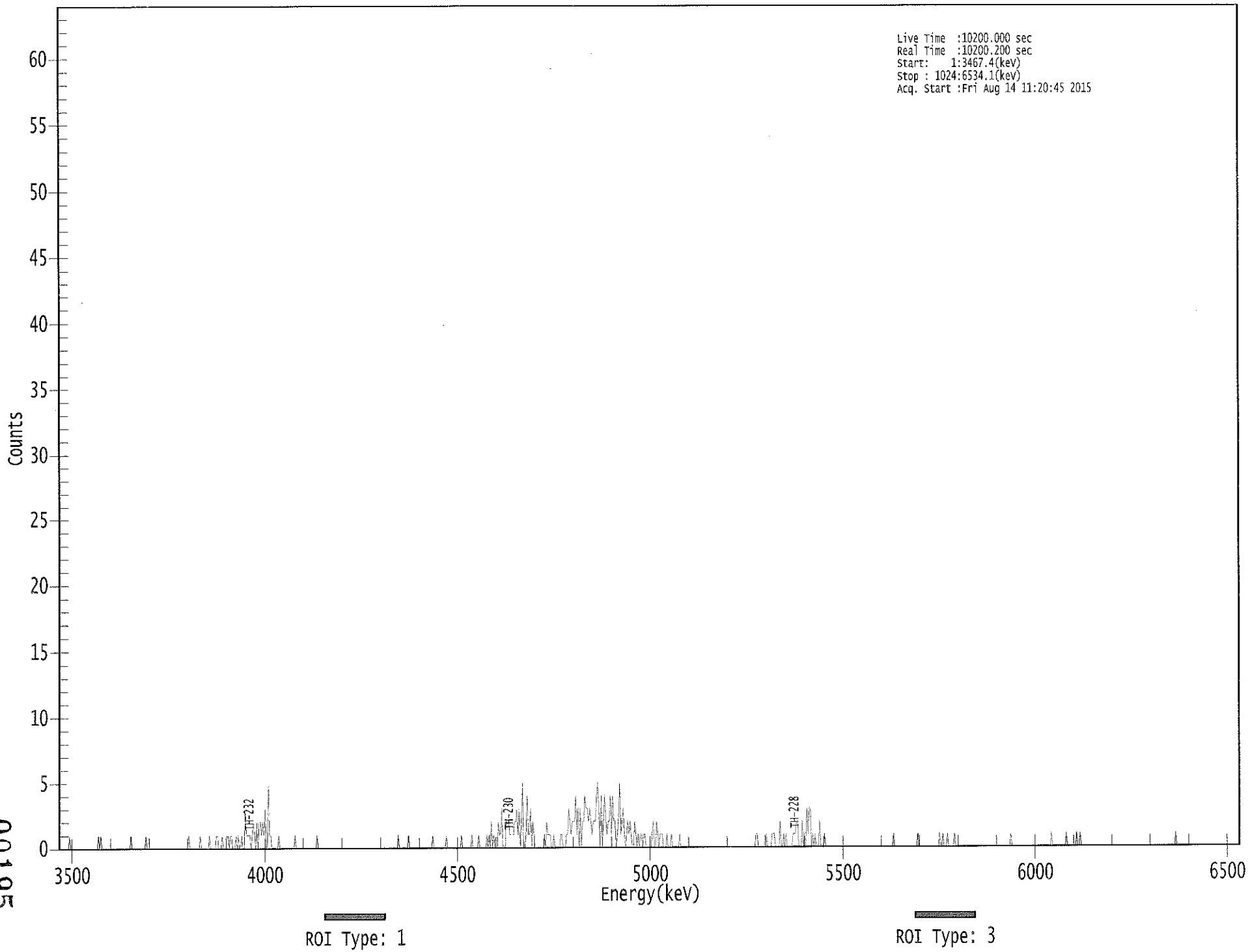
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	1.81E-001 +/- 1.63E-001	1.73E-001 +/- 3.01E-002
TH-228	0.997	5400.00*	1.11E+000 +/- 4.25E-001	2.06E-001 +/- 3.58E-002
TH-229	1.000	4872.00*	4.69E+000 +/- 8.16E-001	1.82E-001 +/- 3.17E-002
TH-230	0.993	4672.00*	1.84E+000 +/- 5.78E-001	1.81E-001 +/- 3.16E-002
TH-232	0.993	3997.00*	1.47E+000 +/- 4.98E-001	1.54E-001 +/- 2.67E-002

AG 8/14/15

0000125960.CNF



00195

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 06

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	1	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	1	0	1	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	1	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	1	0	0	0	0	0	0	0
121:	0	0	1	0	0	0	0	0
129:	0	0	1	0	0	0	0	0
137:	1	1	0	0	0	1	0	0
145:	0	1	1	0	1	1	0	0
153:	0	1	0	1	0	0	1	0
161:	0	3	1	1	1	1	0	1
169:	2	1	0	2	0	2	2	1
177:	2	1	3	0	0	5	1	1
185:	0	0	0	0	0	0	1	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	1	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	1
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	1	0	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	1	0	0	0	0
329:	0	0	0	0	0	0	0	1
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	1	0	0	0
353:	0	0	0	0	0	1	0	0
361:	0	0	0	1	0	0	0	0

369:	0	0	1	0	1	0	2	0

Sample Title: 06

Channel								
377:	1	0	0	0	2	1	1	3
385:	0	0	0	2	2	2	1	1
393:	1	1	2	2	3	1	3	0
401:	2	5	0	0	1	4	1	1
409:	3	0	2	1	0	0	0	0
417:	0	0	0	0	1	0	2	1
425:	1	1	0	0	1	0	0	0
433:	0	0	1	1	0	0	0	1
441:	1	3	2	1	2	2	2	4
449:	1	3	0	3	0	2	2	4
457:	3	3	2	3	2	1	2	2
465:	2	4	5	3	0	4	0	2
473:	4	2	1	2	2	4	1	4
481:	2	2	0	1	2	5	1	2
489:	3	1	0	1	2	1	2	1
497:	0	0	2	1	0	1	0	1
505:	1	0	1	1	0	0	0	0
513:	0	1	2	0	0	2	1	0
521:	1	1	1	0	0	0	1	0
529:	0	0	1	0	0	0	0	0
537:	0	1	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	1	1	0	0	0
609:	0	0	0	1	1	0	0	0
617:	0	1	1	1	0	0	0	0
625:	2	0	0	1	0	1	0	0
633:	0	0	0	1	1	1	2	2
641:	0	0	0	2	0	1	0	3
649:	1	3	3	0	1	0	1	0
657:	0	0	2	0	0	0	1	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	1	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	1
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	1	0	0	1	0	0
769:	0	1	0	0	0	0	0	1
777:	0	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 06

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	1	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	1	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	1	0	0	0	0	0	0	0
881:	0	1	0	0	1	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	1
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

VCB 8/14/15

Sample Description: FEEBRIS1D-4 064-065
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 07
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_041
Chamber Serial Number: 05026930A
Detector Serial Number: 91087
Env. Background: System Bkgd 125655
Reagent Blank: <not performed>

Sample Size: 1.002E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:46 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.233 mL
Effective Efficiency: 0.2090 +/- 0.0167
Counting Efficiency: 0.1873 +/- 0.0033 on 10/25/2014 3:00:28 PM
Chem. Recovery Factor: 1.1159 +/- 0.0914

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.856	4.65	110.85	1.35	0.00E+000	3.0
TH-228		5.365	54.00	26.92	0.00	0.00E+000	4.4
TH-229	T	4.873	185.65	14.47	1.35	0.00E+000	11.2
TH-230		4.631	60.97	25.79	2.03	0.00E+000	9.2
TH-232		3.971	52.30	28.25	2.70	0.00E+000	6.0

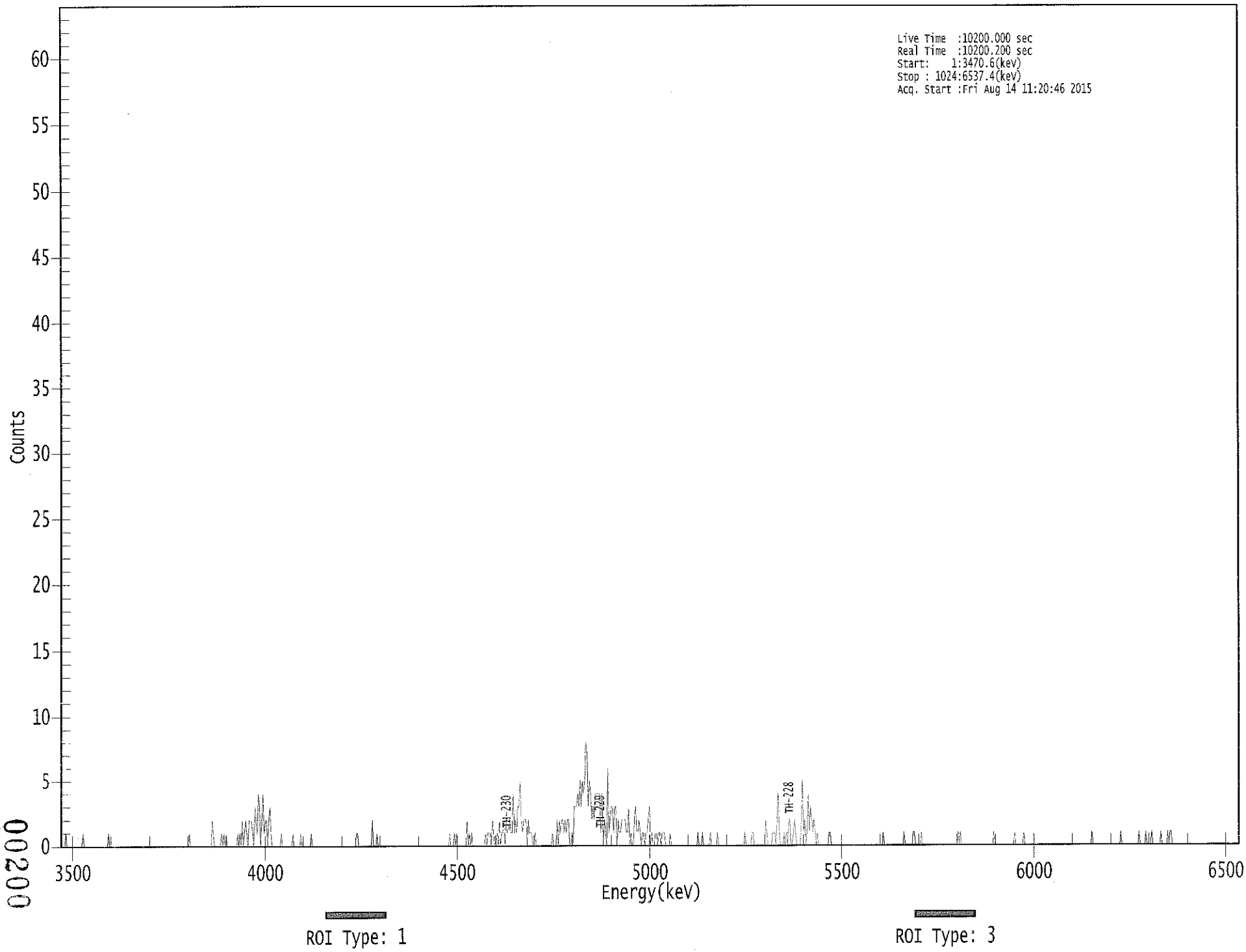
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	1.000	5850.00*	6.04E-002 +/- 6.76E-002	9.95E-002 +/- 1.56E-002
TH-228	0.994	5400.00*	6.94E-001 +/- 2.16E-001	7.70E-002 +/- 1.21E-002
TH-229	1.000	4872.00*	2.36E+000 +/- 3.70E-001	9.73E-002 +/- 1.53E-002
TH-230	0.991	4672.00*	7.73E-001 +/- 2.33E-001	1.11E-001 +/- 1.74E-002
TH-232	0.996	3997.00*	6.61E-001 +/- 2.14E-001	1.23E-001 +/- 1.93E-002

AG 8/14/15

0000125967.CNF



00200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 07

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	1	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	1	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	1
113:	0	0	0	0	0	0	0	0
121:	0	0	0	0	0	0	0	0
129:	0	0	0	2	1	0	0	0
137:	0	0	0	1	0	1	0	1
145:	0	0	0	0	0	0	0	0
153:	0	1	0	1	0	2	0	1
161:	2	1	0	2	2	2	1	0
169:	3	2	1	4	3	0	2	4
177:	1	2	2	0	2	3	1	0
185:	0	0	0	0	0	0	0	1
193:	0	0	0	0	0	0	0	0
201:	0	1	0	0	0	0	0	0
209:	1	0	0	0	0	0	0	0
217:	0	1	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	1	1	0	0	0	0	0	0
265:	0	0	0	0	0	0	2	0
273:	0	0	1	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	1	0	0	0	1	0	1
345:	0	0	0	0	0	0	0	0
353:	2	0	1	0	1	0	0	0
361:	0	0	0	0	0	0	0	0

369:	1	0	1	1	1	0	2	1

Sample Title: 07

Channel								
377:	0	0	1	0	2	0	1	1
385:	2	0	2	1	1	2	1	1
393:	4	1	2	1	3	3	5	2
401:	1	2	2	2	0	2	1	1
409:	1	0	0	1	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	1	0	0	0	2	0
433:	2	1	2	2	1	2	1	2
441:	2	0	0	1	0	3	3	3
449:	4	3	5	3	5	4	5	8
457:	7	3	5	4	2	3	2	4
465:	4	4	4	4	1	4	0	2
473:	1	0	6	1	2	3	3	1
481:	3	3	0	2	1	1	2	2
489:	2	2	1	1	3	0	1	0
497:	0	2	3	1	1	2	1	0
505:	1	1	0	1	1	2	3	0
513:	1	0	0	1	1	0	1	1
521:	0	1	1	1	0	0	0	0
529:	1	0	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	1	0	0	0	1	0	0	0
561:	0	0	0	1	0	0	0	0
569:	0	1	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	1	0	0	0	0	0	1
601:	1	0	0	0	0	0	0	0
609:	0	0	0	2	1	0	0	0
617:	0	1	1	1	0	2	4	1
625:	0	0	0	1	0	1	0	2
633:	2	0	0	1	2	1	0	0
641:	0	0	2	5	1	2	0	1
649:	4	1	3	2	1	2	1	0
657:	1	0	0	0	0	0	0	0
665:	0	0	1	1	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	1	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	1	0	0	0	0
737:	0	0	0	1	1	0	0	0
745:	0	0	1	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	1	0	1	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 07

Channel								
809:	0	1	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	1	0	0	0	0
833:	0	0	0	1	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	1	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	1
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	1
937:	0	0	0	0	0	1	0	0
945:	0	0	1	0	0	0	0	0
953:	0	0	1	0	0	0	0	0
961:	1	0	1	1	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KD 8/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-20 080-081
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 08
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_042
Chamber Serial Number: 05026930B
Detector Serial Number: 84185
Env. Background: System Bkgd 125656
Reagent Blank: <not performed>

Sample Size: 5.188E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:48 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1132 +/- 0.0119
Counting Efficiency: 0.1737 +/- 0.0030 on 10/25/2014 3:04:21 PM
Chem. Recovery Factor: 0.6513 +/- 0.0694

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.917	2.32	156.76	0.68	0.00E+000	3.0
TH-228		5.341	1.00	277.19	0.00	0.00E+000	3.0
TH-229	T	4.880	100.32	19.68	0.68	0.00E+000	13.0
TH-230		4.627	30.00	36.38	0.00	0.00E+000	3.0
TH-232		3.925	8.32	72.40	0.68	0.00E+000	3.0

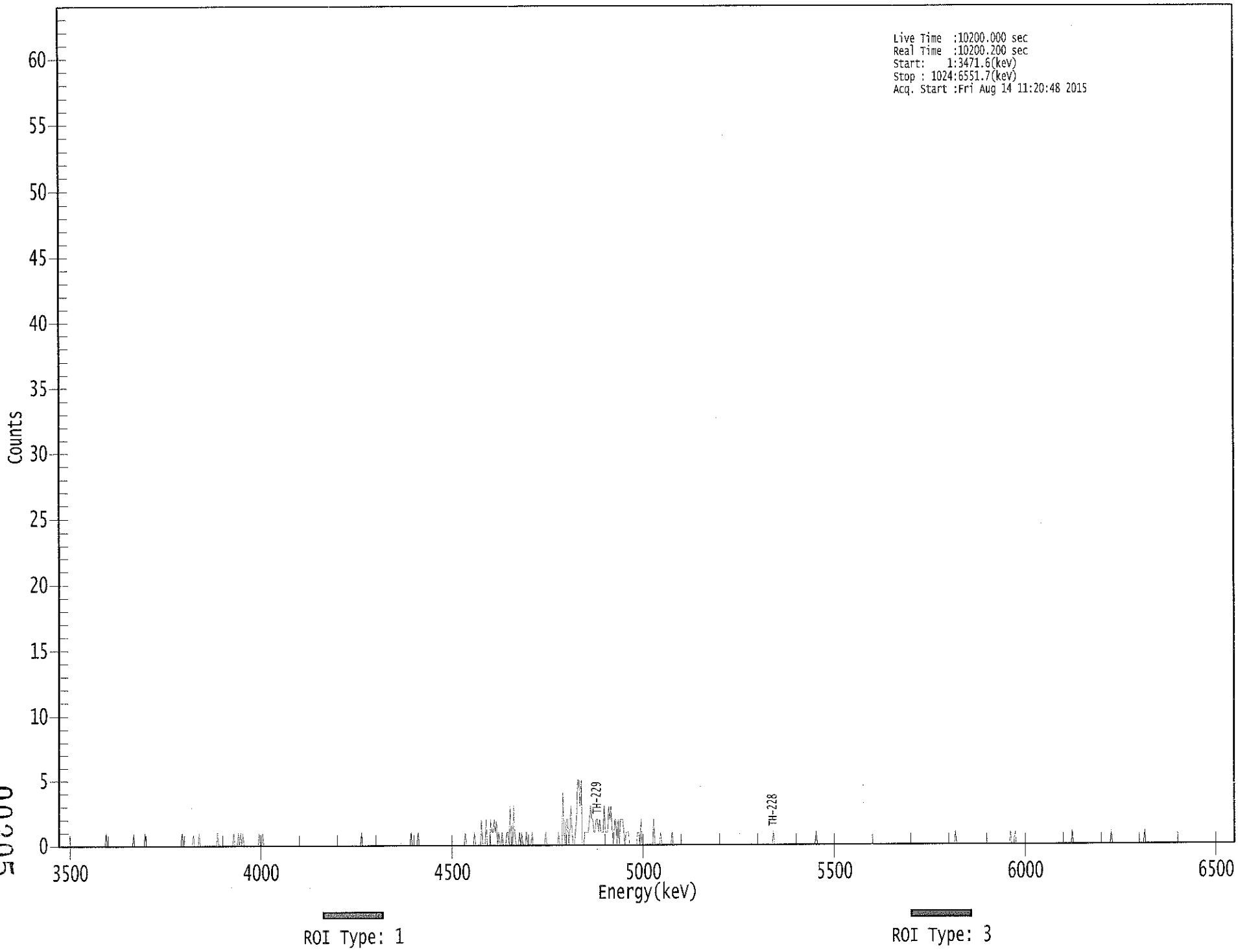
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.977	5850.00*	1.08E-001 +/- 1.70E-001	2.88E-001 +/- 5.92E-002
TH-228	0.982	5400.00*	4.59E-002 +/- 1.27E-001	2.75E-001 +/- 5.66E-002
TH-229	1.000	4872.00*	4.55E+000 +/- 9.37E-001	2.81E-001 +/- 5.80E-002
TH-230	0.989	4672.00*	1.36E+000 +/- 5.67E-001	2.71E-001 +/- 5.58E-002
TH-232	0.973	3997.00*	3.76E-001 +/- 2.83E-001	2.80E-001 +/- 5.77E-002

AG 8/14/15

0000125968.CNF



00205

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 08

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	1	0	0	0	0	0	0
73:	0	0	0	1	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	1	0	0	0	0
113:	0	0	0	0	0	1	0	0
121:	0	0	1	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	1	0	0	0	0	0
145:	0	0	0	0	0	0	0	0
153:	1	0	0	0	1	0	1	0
161:	1	0	0	0	0	0	0	0
169:	0	0	0	0	0	0	1	0
177:	0	1	0	0	0	0	0	0
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	1
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	0	0
305:	0	0	1	0	0	0	0	0
313:	1	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	0	0
353:	0	1	0	0	0	0	0	0
361:	0	1	0	0	0	0	0	2

369:	0	0	0	2	0	0	0	2

Sample Title: 08

Channel								
377:	1	1	2	1	2	0	1	0
385:	0	1	0	0	0	1	1	0
393:	3	0	0	3	1	0	0	0
401:	1	0	1	0	0	0	1	0
409:	0	0	0	1	0	0	0	0
417:	0	0	0	0	0	0	0	1
425:	0	0	0	0	0	0	0	0
433:	0	0	1	0	0	0	4	1
441:	0	2	2	0	1	3	1	0
449:	0	1	2	5	5	3	5	0
457:	0	1	1	1	1	2	3	2
465:	2	1	1	2	2	1	2	1
473:	1	1	3	1	1	1	3	2
481:	3	1	0	2	2	0	2	0
489:	2	2	2	1	0	1	1	1
497:	0	0	0	0	0	0	0	1
505:	1	0	2	0	0	0	0	0
513:	0	0	0	0	0	2	0	0
521:	0	0	0	1	0	0	0	0
529:	0	0	0	0	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	0
601:	0	0	0	0	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	1	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	1	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	0	0
745:	0	0	0	0	0	0	0	0
753:	0	0	0	0	0	0	0	0
761:	0	0	0	0	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	1	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 08

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	1	0	0	0	1
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	1	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	1	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	1	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

Apex-Alpha™

PB 9/14/15

Sample Description: DUPLICATE 5
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 09
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_043
Chamber Serial Number: 04026481A
Detector Serial Number: 91088
Env. Background: System Bkgd 125657
Reagent Blank: <not performed>

Sample Size: 1.025E+000 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:50 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1072 +/- 0.0116
Counting Efficiency: 0.1998 +/- 0.0035 on 10/25/2014 3:08:45 PM
Chem. Recovery Factor: 0.5366 +/- 0.0586

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.808	5.64	93.45	1.36	0.00E+000	3.0
TH-228		5.310	7.30	81.83	1.70	0.00E+000	3.0
TH-229	T	4.869	94.98	20.24	1.02	0.00E+000	6.0
TH-230		4.635	59.32	25.62	0.68	0.00E+000	18.0
TH-232		3.955	5.83	82.55	0.17	0.00E+000	3.0

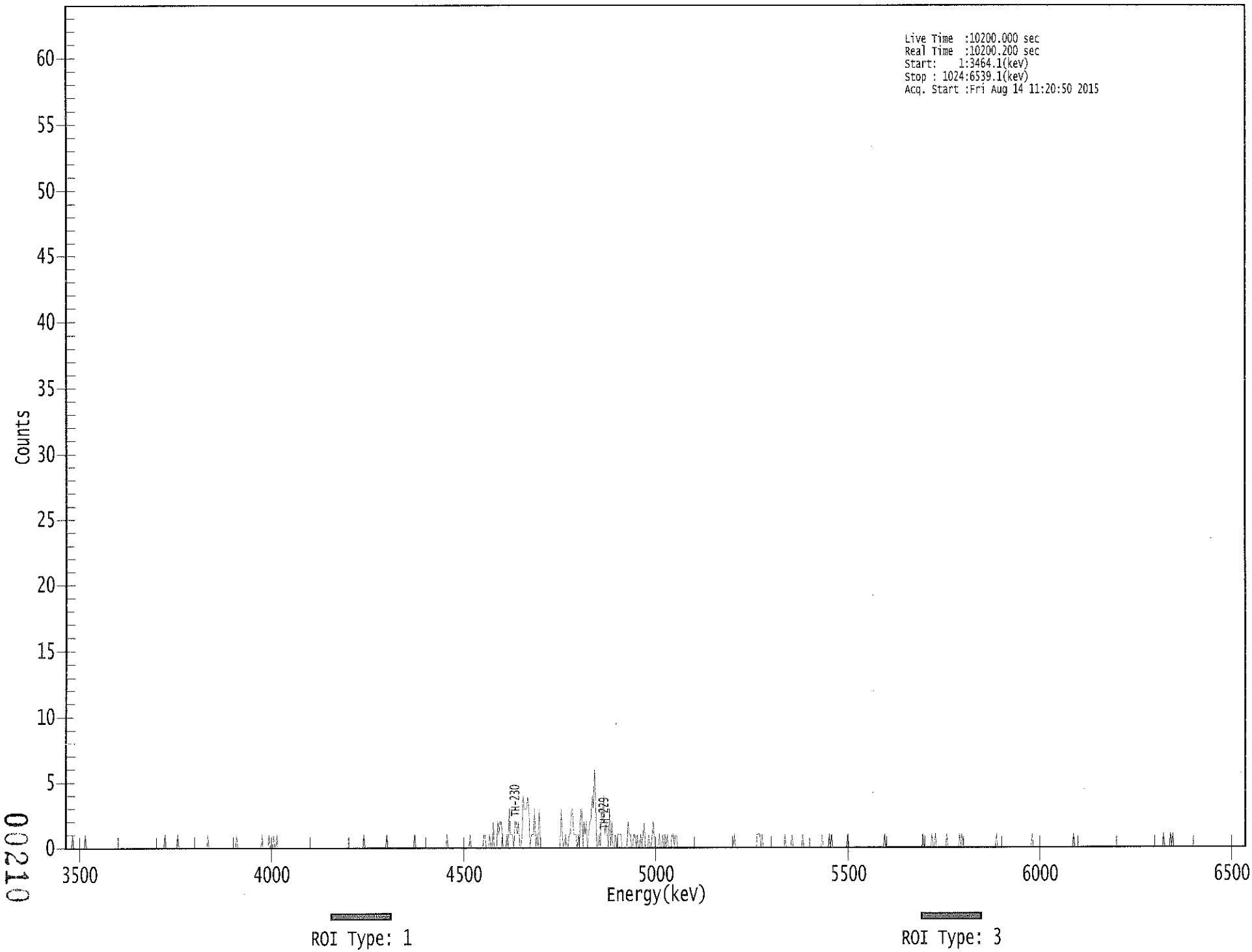
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.991	5850.00*	1.40E-001 +/- 1.34E-001	1.70E-001 +/- 3.59E-002
TH-228	0.959	5400.00*	1.79E-001 +/- 1.51E-001	1.80E-001 +/- 3.80E-002
TH-229	1.000	4872.00*	2.30E+000 +/- 4.86E-001	1.53E-001 +/- 3.23E-002
TH-230	0.993	4672.00*	1.43E+000 +/- 4.76E-001	1.36E-001 +/- 2.88E-002
TH-232	0.991	3997.00*	1.41E-001 +/- 1.20E-001	1.01E-001 +/- 2.13E-002

AG 8/14/15

0000125965.CNF



00210

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 09

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	1	0
9:	0	0	0	0	0	0	0	0
17:	0	1	0	0	0	0	0	0
25:	0	0	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	0	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	1	0
89:	0	0	0	0	0	0	0	0
97:	0	1	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	0	0	1	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	0	0	0	0	0
145:	0	0	0	0	1	0	0	0
153:	0	0	0	0	0	0	0	0
161:	0	0	0	0	0	0	0	0
169:	0	0	1	0	0	0	0	0
177:	1	0	0	0	1	0	0	1
185:	0	0	0	0	0	0	0	0
193:	0	0	0	0	0	0	0	0
201:	0	0	0	0	0	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	0	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	0	0
249:	0	0	0	0	0	0	0	0
257:	0	0	1	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	1	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	0	0
297:	0	0	0	0	0	0	1	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	0	0
321:	0	0	0	0	0	0	0	0
329:	0	0	1	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	0	0	0	0	1	0
353:	0	0	0	0	0	0	0	0
361:	0	0	1	1	0	0	0	1

369:	0	0	2	0	0	0	2	1

Sample Title: 09

Channel								
377:	2	2	1	0	0	0	1	0
385:	3	1	1	1	0	2	2	1
393:	2	0	0	1	4	3	3	3
401:	4	3	0	1	1	1	3	0
409:	1	0	3	0	0	0	0	0
417:	0	0	0	0	0	0	0	0
425:	0	0	0	0	0	3	1	0
433:	0	1	0	0	1	1	3	3
441:	1	1	1	0	1	0	3	3
449:	0	2	1	2	0	1	2	2
457:	4	3	6	3	0	0	1	0
465:	3	2	4	1	2	1	0	3
473:	0	2	0	0	1	0	1	1
481:	1	1	0	0	0	0	0	2
489:	1	1	0	0	1	1	0	1
497:	0	0	1	0	1	2	0	0
505:	0	1	0	0	1	2	0	0
513:	0	0	1	0	0	1	0	1
521:	0	1	0	0	0	1	1	0
529:	1	1	0	0	0	0	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	0	0	1	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	0	0	1
601:	1	1	0	1	0	0	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	1
625:	0	0	0	0	0	1	0	0
633:	0	0	0	0	0	0	1	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	1
657:	0	0	0	0	0	1	0	1
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	1	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	1	0	0
713:	0	0	0	0	0	0	0	0
721:	0	0	0	0	0	0	0	0
729:	0	0	0	0	0	0	0	0
737:	0	0	0	0	0	0	1	0
745:	0	0	0	0	0	0	1	0
753:	0	1	0	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	1	0
777:	1	0	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	1	0

Sample Title: 09

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	1	0	0
841:	0	0	0	0	0	0	0	0
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	1	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	1
953:	0	0	0	0	0	1	0	1
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

KR 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-20 089-090
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 10
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_044
Chamber Serial Number: 04026481B
Detector Serial Number: 84168
Env. Background: System Bkgd 125658
Reagent Blank: <not performed>

Sample Size: 5.248E-001 +/- 0.000E+000 gram
Sample Date/Time: 7/30/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:52 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1867 +/- 0.0156
Counting Efficiency: 0.1837 +/- 0.0032 on 10/25/2014 3:13:11 PM
Chem. Recovery Factor: 1.0164 +/- 0.0869

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.824	8.66	68.12	0.34	0.00E+000	3.0
TH-228		5.376	49.49	28.03	0.51	0.00E+000	5.2
TH-229	T	4.904	165.66	15.25	0.34	0.00E+000	11.0
TH-230		4.647	52.83	27.02	0.17	0.00E+000	5.0
TH-232		3.981	44.32	29.70	0.68	0.00E+000	4.4

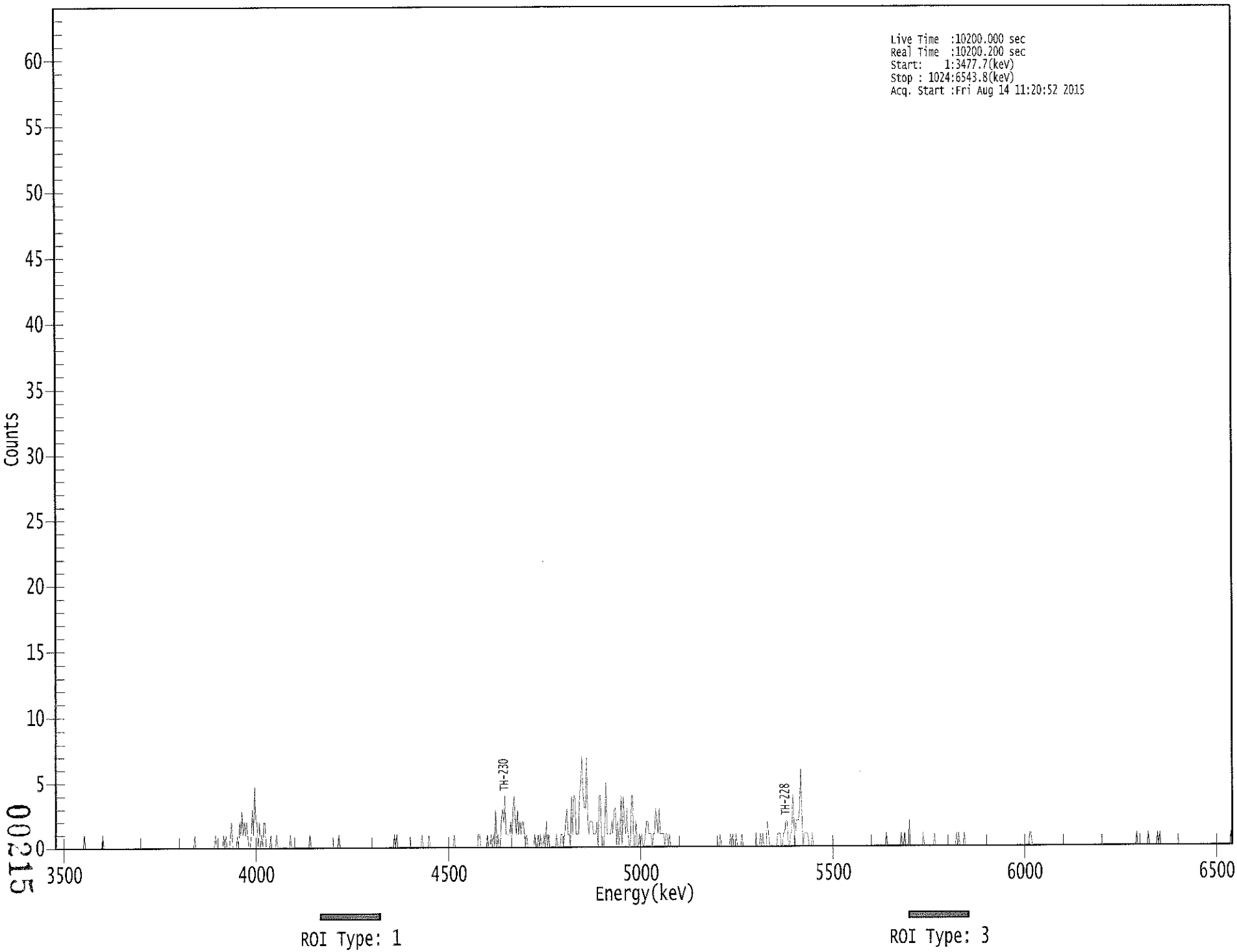
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.997	5850.00*	2.41E-001 +/- 1.69E-001	1.33E-001 +/- 2.18E-002
TH-228	0.997	5400.00*	1.36E+000 +/- 4.42E-001	1.44E-001 +/- 2.37E-002
TH-229	0.995	4872.00*	4.50E+000 +/- 7.39E-001	1.30E-001 +/- 2.13E-002
TH-230	0.997	4672.00*	1.43E+000 +/- 4.52E-001	1.13E-001 +/- 1.86E-002
TH-232	0.999	3997.00*	1.20E+000 +/- 4.07E-001	1.53E-001 +/- 2.50E-002

AE4
8/14/15

0000125961.CNF



0215 0200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 10

Elapsed Live time: 10200
Elapsed Real Time: 10200

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	0	0	0	0	0	0
25:	0	1	0	0	0	0	0	0
33:	0	0	0	0	0	0	0	0
41:	0	1	0	0	0	0	0	0
49:	0	0	0	0	0	0	0	0
57:	0	0	0	0	0	0	0	0
65:	0	0	0	0	0	0	0	0
73:	0	0	0	0	0	0	0	0
81:	0	0	0	0	0	0	0	0
89:	0	0	0	0	0	0	0	0
97:	0	0	0	0	0	0	0	0
105:	0	0	0	0	0	0	0	0
113:	0	0	0	0	0	0	0	0
121:	0	1	0	0	0	0	0	0
129:	0	0	0	0	0	0	0	0
137:	0	0	0	1	0	0	0	0
145:	0	0	1	0	1	0	0	0
153:	1	2	0	0	0	0	1	0
161:	2	1	3	1	2	1	2	1
169:	0	0	1	3	1	5	2	2
177:	0	2	0	1	0	2	2	0
185:	0	0	0	1	0	0	0	0
193:	1	0	0	0	0	0	0	0
201:	0	0	0	0	1	0	0	0
209:	0	0	0	0	0	0	0	0
217:	0	0	0	0	0	1	0	0
225:	0	0	0	0	0	0	0	0
233:	0	0	0	0	0	0	0	0
241:	0	0	0	0	0	0	1	0
249:	0	0	0	0	0	0	0	0
257:	0	0	0	0	0	0	0	0
265:	0	0	0	0	0	0	0	0
273:	0	0	0	0	0	0	0	0
281:	0	0	0	0	0	0	0	0
289:	0	0	0	0	0	0	1	0
297:	1	0	0	0	0	0	0	0
305:	0	0	0	0	0	0	0	0
313:	0	0	0	0	0	0	1	0
321:	0	0	0	0	1	0	0	0
329:	0	0	0	0	0	0	0	0
337:	0	0	0	0	0	0	0	0
345:	0	0	1	0	0	0	0	0
353:	0	0	0	0	0	0	0	0
361:	0	0	0	0	0	0	0	1

369:	1	0	0	0	0	0	0	1

Sample Title: 10

Channel								
377:	0	0	1	0	1	0	3	0
385:	1	0	0	2	3	2	4	1
393:	1	1	1	2	0	3	4	2
401:	1	3	1	2	1	2	2	1
409:	0	1	0	0	0	0	0	0
417:	1	0	0	1	0	1	0	0
425:	1	0	2	0	1	0	0	0
433:	0	0	0	1	0	0	0	1
441:	1	0	1	2	3	1	1	0
449:	4	1	4	4	1	1	1	4
457:	5	7	4	3	3	7	2	1
465:	2	2	2	1	1	1	2	0
473:	4	4	1	0	0	2	5	1
481:	1	1	1	2	1	3	3	0
489:	2	0	1	4	0	4	2	1
497:	3	1	0	0	4	4	0	0
505:	2	0	0	1	0	1	0	0
513:	1	2	2	1	1	1	0	1
521:	1	3	2	1	3	1	1	1
529:	1	0	1	1	0	1	0	0
537:	0	0	0	0	0	0	0	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	0	0	0	0	0	0	0
577:	0	1	0	0	0	0	0	0
585:	0	0	1	0	1	0	0	1
593:	0	0	0	0	1	0	0	0
601:	0	0	0	0	0	0	0	0
609:	1	0	0	0	1	0	1	0
617:	0	0	2	1	0	0	0	0
625:	0	0	0	1	1	1	0	0
633:	1	1	2	2	0	0	1	1
641:	4	2	0	2	2	2	3	6
649:	2	0	1	1	1	1	0	0
657:	0	1	0	0	0	0	0	0
665:	0	0	0	0	0	0	0	0
673:	0	0	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	0	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	0	0	0	0	0	0
721:	0	1	0	0	0	0	0	0
729:	0	0	0	0	0	0	1	0
737:	0	1	0	0	0	2	0	0
745:	0	0	0	0	0	0	0	0
753:	0	1	0	0	0	0	0	0
761:	0	0	0	1	0	0	0	0
769:	0	0	0	0	0	0	0	0
777:	0	0	0	0	0	0	1	0
785:	1	0	0	0	0	1	0	0
793:	0	0	0	0	0	0	0	0

801:	0	0	0	0	0	0	0	0

Sample Title: 10

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	0	0	0	0	0	0
825:	0	0	0	0	0	0	0	0
833:	0	0	0	0	0	0	0	0
841:	0	0	0	0	0	0	1	1
849:	0	0	0	0	0	0	0	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	0	0	0	1	0	0	0	0
945:	0	0	0	0	0	1	0	0
953:	0	0	0	0	0	1	0	1
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	1	0	0

JCB 9/14/15

Apex-Alpha™

Sample Description: FEEBRIS1D-7 084-085
Spectrum File: \\OR-ALPHA1\Canberra\ApexAlpha\Root\Data\00001259
Batch Identification: 1508002A-TH
Sample Identification: 11
Sample Geometry: Shelf 2
Procedure Description: Th iso

Detector Name: Alpha_046
Chamber Serial Number: 04026482B
Detector Serial Number: 58762
Env. Background: System Bkgd 125659
Reagent Blank: <not performed>

Sample Size: 5.700E-003 +/- 0.000E+000 gram
Sample Date/Time: 7/24/2015 6:28:15 AM
Acquisition Date/Time: 8/14/2015 11:20:54 AM
Acquisition Live Time: 170.0 minutes
Acquisition Real Time: 170.0 minutes

Tracer Certificate: Th229_S_TH-18A
Tracer Quantity: 0.232 mL
Effective Efficiency: 0.1941 +/- 0.0161
Counting Efficiency: 0.1776 +/- 0.0031 on 10/25/2014 3:20:08 PM
Chem. Recovery Factor: 1.0928 +/- 0.0928

Peak Match Tolerance: 0.175 MeV

PEAK AREA REPORT

Nuclide		Energy (MeV)	Net Pk Area	Pk Area Error %	Ambient Backgnd	Reagent Backgnd	FWHM (keV)
TH-227		5.865	41.98	30.68	1.02	0.00E+000	4.5
TH-228		5.255	-0.06	6128.9	3.06	0.00E+000	3.0
TH-229	T	4.876	171.94	15.10	3.06	0.00E+000	5.3
TH-230		4.634	6961.26	2.35	3.74	0.00E+000	55.7
TH-232		3.947	74.43	23.35	3.57	0.00E+000	4.5

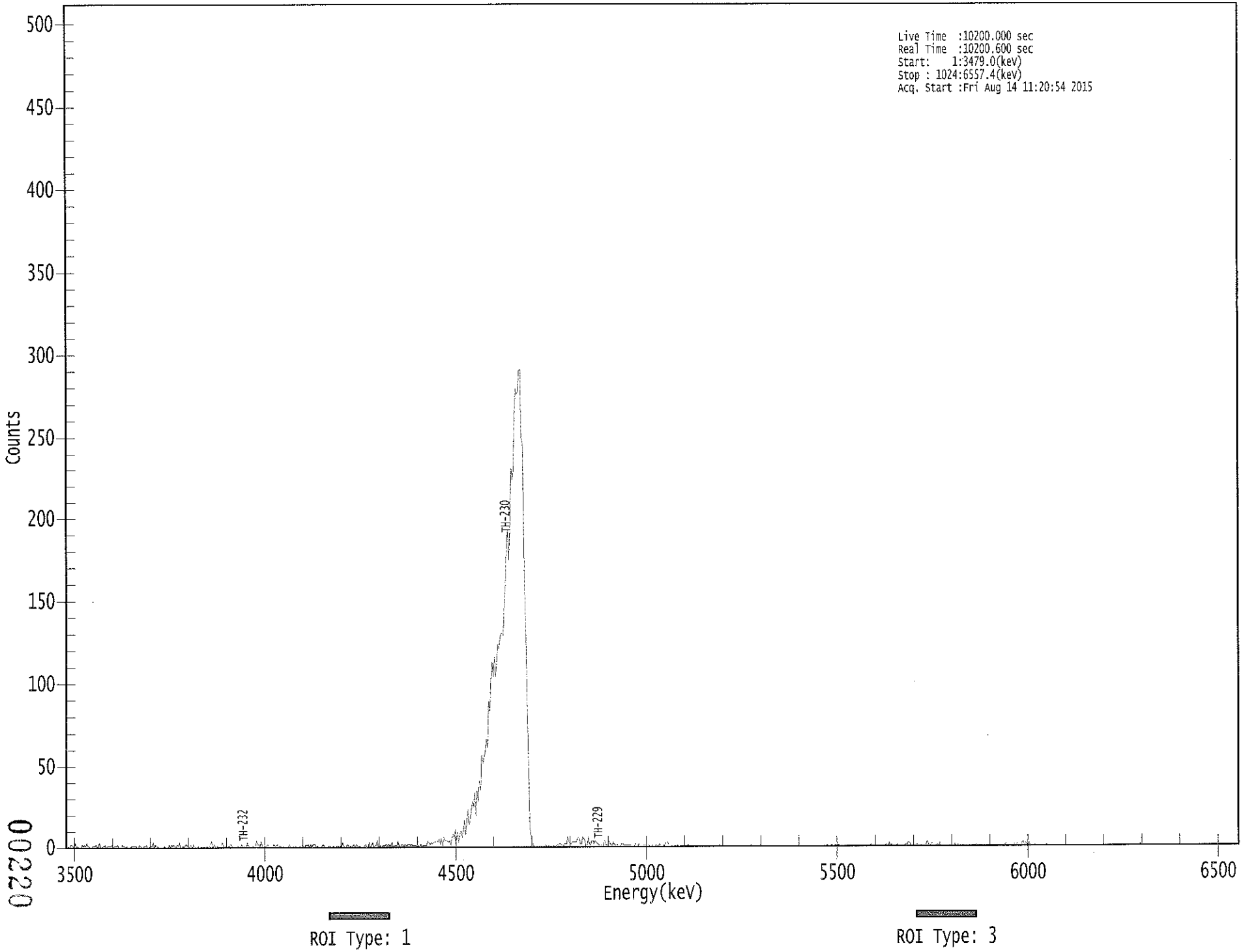
T = Tracer Peak used for Effective Efficiency

NUCLIDE ANALYSIS RESULTS

Nuclide	Id Conf.	Energy (keV)	Activity (pCi/gram)	MDA (pCi/gram)
TH-227	0.999	5850.00*	1.03E+002 +/- 3.59E+001	1.55E+001 +/- 2.52E+000
TH-228	0.897	5400.00*	-1.47E-001 +/- 9.00E+000	2.19E+001 +/- 3.56E+000
TH-229	1.000	4872.00*	4.14E+002 +/- 6.74E+001	2.15E+001 +/- 3.50E+000
TH-230	0.992	4672.00*	1.67E+004 +/- 2.75E+003	2.30E+001 +/- 3.75E+000
TH-232	0.987	3997.00*	1.78E+002 +/- 5.07E+001	2.26E+001 +/- 3.68E+000

AG
8/14/15

0000125962.CNF



02200

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: 11

Elapsed Live time: 10200
Elapsed Real Time: 10201

Channel								
1:	0	0	1	0	2	2	1	0
9:	3	0	1	0	0	0	2	1
17:	2	1	3	1	1	0	0	1
25:	1	1	2	1	0	3	1	0
33:	1	1	2	0	1	1	1	1
41:	2	0	1	1	1	2	0	0
49:	0	2	1	1	0	1	0	0
57:	0	1	1	1	1	1	0	0
65:	2	1	0	0	1	1	2	0
73:	0	1	1	1	3	0	2	0
81:	1	0	0	0	0	0	1	0
89:	0	0	2	0	2	1	2	1
97:	0	2	1	3	0	0	1	0
105:	2	2	1	0	1	2	0	2
113:	0	0	0	1	0	0	0	0
121:	0	0	0	1	0	1	2	4
129:	0	2	1	0	1	1	0	1
137:	3	2	0	1	0	1	0	2
145:	2	0	0	0	0	1	1	0
153:	0	2	0	1	0	0	3	1
161:	1	0	1	1	0	0	4	2
169:	2	0	4	1	0	0	1	1
177:	2	0	0	0	0	2	1	0
185:	2	1	1	1	0	1	0	0
193:	0	0	1	2	0	0	1	0
201:	1	0	0	0	1	0	2	1
209:	0	2	1	2	0	2	0	2
217:	2	2	0	1	0	0	0	1
225:	2	1	0	0	0	1	1	0
233:	0	1	0	0	1	1	0	1
241:	0	3	1	0	0	2	1	0
249:	1	0	1	2	0	2	1	0
257:	1	0	0	0	1	2	0	0
265:	3	0	1	3	0	1	1	4
273:	1	0	1	0	1	1	1	2
281:	1	2	1	1	3	0	1	1
289:	1	4	1	0	2	2	0	2
297:	1	1	2	2	1	2	1	1
305:	1	1	0	1	0	2	0	1
313:	1	1	1	4	3	1	3	2
321:	3	3	4	4	3	5	2	5
329:	1	6	4	4	4	3	4	1
337:	6	8	6	11	4	9	3	8
345:	10	6	11	16	7	16	23	14
353:	16	23	28	25	34	19	35	28
361:	41	35	57	52	55	59	66	61

369:	89	83	102	113	104	116	104	111

Sample Title: 11

Channel								
377:	123	121	127	130	130	129	151	160
385:	188	193	174	192	231	224	229	263
393:	279	276	277	290	291	250	245	187
401:	156	114	83	46	12	6	3	1
409:	0	0	0	0	0	0	0	0
417:	0	1	1	0	1	0	0	0
425:	0	1	0	1	2	1	2	2
433:	1	0	2	2	2	6	3	2
441:	2	3	3	3	3	4	6	5
449:	2	2	6	5	4	0	1	6
457:	2	1	4	4	2	4	3	2
465:	2	0	1	1	0	4	3	0
473:	1	4	2	1	1	3	1	1
481:	2	0	0	0	2	2	1	1
489:	1	1	1	1	1	0	0	0
497:	2	0	0	2	1	0	0	1
505:	1	1	1	0	1	0	0	1
513:	1	0	1	1	0	2	0	1
521:	1	0	2	3	3	1	1	1
529:	0	0	0	0	0	1	0	0
537:	0	0	0	1	0	0	1	0
545:	0	0	0	0	0	0	0	0
553:	0	0	0	0	0	0	0	0
561:	0	0	0	0	0	0	0	0
569:	0	1	0	0	0	0	0	0
577:	0	0	0	0	0	0	0	0
585:	0	0	0	0	0	0	0	0
593:	0	0	0	0	0	1	0	0
601:	0	0	0	0	0	1	0	0
609:	0	0	0	0	0	0	0	0
617:	0	0	0	0	0	0	0	0
625:	0	0	0	0	0	0	0	0
633:	0	0	0	0	0	0	0	0
641:	0	0	0	0	0	0	0	0
649:	0	0	0	0	0	0	0	0
657:	0	0	0	0	0	0	0	1
665:	0	0	0	1	0	0	1	0
673:	0	1	0	0	0	0	0	0
681:	0	0	0	0	0	0	0	0
689:	0	0	0	0	0	0	0	0
697:	0	0	0	0	0	1	0	0
705:	0	0	0	0	0	0	0	0
713:	0	0	1	0	0	2	0	1
721:	0	0	0	0	1	0	0	0
729:	0	0	0	1	0	2	2	2
737:	0	0	0	0	1	1	1	0
745:	0	1	0	0	0	1	3	1
753:	0	1	2	1	0	0	1	1
761:	0	2	0	0	0	0	0	0
769:	0	0	1	1	0	0	1	0
777:	0	1	0	0	0	0	0	0
785:	0	0	0	0	0	0	0	0
793:	0	1	0	0	0	0	0	0

801:	1	0	0	0	0	0	0	0

Sample Title: 11

Channel								
809:	0	0	0	0	0	0	0	0
817:	0	0	1	2	1	0	0	0
825:	0	0	1	0	0	2	1	0
833:	0	2	3	0	2	1	0	2
841:	0	0	0	0	1	0	0	0
849:	0	0	0	0	0	0	1	0
857:	0	0	0	0	0	0	0	0
865:	0	0	0	0	0	0	0	0
873:	0	0	0	0	0	0	0	0
881:	0	0	0	0	0	0	0	0
889:	0	0	0	0	0	0	0	0
897:	0	0	0	0	0	0	0	0
905:	0	0	0	0	0	0	0	0
913:	0	0	0	0	0	0	0	0
921:	0	0	0	0	0	0	0	0
929:	0	0	0	0	0	0	0	0
937:	1	0	0	0	0	0	0	0
945:	0	0	0	0	0	0	0	0
953:	0	0	0	0	0	0	0	0
961:	0	0	0	0	0	0	0	0
969:	0	0	0	0	0	0	0	0
977:	0	0	0	0	0	0	0	0
985:	0	0	0	0	0	0	0	0
993:	0	0	0	0	0	0	0	0
1001:	0	0	0	0	0	0	0	0
1009:	0	0	0	0	0	0	0	0
1017:	0	0	0	0	0	0	0	0

8/14/2015 6:47:28 AM

Apex-Alpha™

QA SUMMARY REPORT

Review Of QA Results - Pulser Check

Date : 8/14/2015
Time : 6:47:28 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_001	21f	ALL	Not Done	
Alpha_002	21f	ALL	Not Done	
Alpha_003	21f	ALL	Passed	8/14/2015 5:00:48 AM
Alpha_004	21f	ALL	Passed	8/14/2015 5:00:49 AM
Alpha_005	21f	ALL	Not Done	
Alpha_006	21f	ALL	Not Done	
Alpha_007	21f	ALL	Not Done	
Alpha_008	21f	ALL	Not Done	
Alpha_009	21f	ALL	Not Done	
Alpha_010	21f	ALL	Passed	8/14/2015 5:00:49 AM
Alpha_011	21f	ALL	Passed	8/14/2015 5:00:50 AM
Alpha_012	21f	ALL	Passed	8/14/2015 5:00:51 AM
Alpha_013	21f	ALL	Not Done	
Alpha_014	21f	ALL	Passed	8/14/2015 5:00:52 AM
Alpha_015	21f	ALL	Passed	8/14/2015 5:00:53 AM
Alpha_016	21f	ALL	Not Done	
Alpha_033	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:54 AM
Alpha_034	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:56 AM
Alpha_035	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:57 AM
Alpha_036	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:00:58 AM
Alpha_037	Alpha Analyst100DC	Peak FWHM	Action	8/14/2015 5:01:00 AM
Alpha_038	Alpha Analyst100DC	Peak Energy	Action	8/14/2015 5:01:02 AM
Alpha_039	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:03 AM
Alpha_040	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:05 AM
Alpha_041	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:07 AM
Alpha_042	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:09 AM
Alpha_043	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:10 AM
Alpha_044	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:12 AM
Alpha_045	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:14 AM
Alpha_046	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:16 AM
Alpha_047	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:18 AM
Alpha_048	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:20 AM
Alpha_049	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:22 AM
Alpha_050	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:24 AM
Alpha_051	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:26 AM
Alpha_052	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:28 AM
Alpha_053	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:30 AM
Alpha_054	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:32 AM
Alpha_055	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:33 AM
Alpha_056	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:35 AM
Alpha_057	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:37 AM
Alpha_058	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:39 AM

Review of QA Results - Pulser Check

8/14/2015 6:47:28 AM

CHAMBER	DEVICE	PARAMETER	FLAG	DATE
Alpha_059	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:41 AM
Alpha_060	Alpha Analyst100DC	ALL	Passed	8/14/2015 5:01:43 AM

APPROVED BY: _____

APPROVAL DATE: 8/14

****
***** L I B R A R Y L I S T I N G R E P O R T *****
****

Nuclide Library Title: Thorium

Nuclide Library Description: Th-227,-228,-229,-230,-232

Nuclide Name	Half-Life (Seconds)	Energy (keV)	Energy Uncert. (keV)	Yield (%)	Yield Uncert.(Abs.+-)
TH-227	6.873E+008	5850.000*	0.000	97.5000	0.0000
TH-228	6.034E+007	5400.000*	0.000	99.9400	0.0000
TH-229	2.487E+011	4872.000*	0.000	99.5200	0.0000
TH-230	2.379E+012	4672.000*	0.000	99.8200	0.0000
TH-232	4.434E+017	3997.000*	0.000	100.0000	0.0000

* = key line

TOTALS: 5 Nuclides 5 Energy Lines

SECTION X

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

15-08002
Gamma
Run 1

Work Order	15-08002
Analysis Code	Gamma
Run	1
Date Received	8/3/2015
Lab Deadline	8/25/2015
Client	AMO Environmental Decisions
Project	ENG/BOR.1D
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		08/03/15 00:00	1.0000E+00
02	MBL	BLANK		08/03/15 00:00	1.0000E+00
03	DUP	FEEBRIS1D-8 075-076	82	07/29/15 09:06	3.2574E+02
04	DO	FEEBRIS1D-8 075-076	82	07/29/15 09:06	3.2574E+02
05	TRG	FEEBRIS1D-8 090-091	65	07/29/15 09:41	6.5203E+02
06	TRG	FEEBRIS1D-4 061-062	90	07/30/15 07:35	5.6056E+02
07	TRG	FEEBRIS1D-4 064-065	69	07/30/15 07:40	6.0831E+02
08	TRG	FEEBRIS1D-20 080-081	153	07/30/15 09:57	6.7845E+02
09	TRG	DUPLICATE 5	77	07/30/15 09:57	6.3034E+02
10	TRG	FEEBRIS1D-20 089-090	101	07/30/15 10:24	5.0074E+02
11	TRG	FEEBRIS1D-7 084-085	7570	07/24/15 08:07	5.0288E+02

00228

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

15-08002
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								
05	TRG				0.00								
06	TRG				0.00								
07	TRG				0.00								
08	TRG				0.00								
09	TRG				0.00								
10	TRG				0.00								
11	TRG				0.00								

00229

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	08/04/15 07:03	KSALLINGS						
05	TRG	08/04/15 07:03	KSALLINGS						
06	TRG	08/04/15 07:03	KSALLINGS						
07	TRG	08/04/15 07:03	KSALLINGS						
08	TRG	08/04/15 07:03	KSALLINGS						
09	TRG	08/04/15 07:03	KSALLINGS						
10	TRG	08/04/15 07:03	KSALLINGS						
11	TRG	08/04/15 07:03	KSALLINGS						

00230

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Work Order: 15-08002-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.33E+02	9.19E+00	1.47E+00	1.37E+02	97.31	OK		08/03/15 00:00	1.00E+00	08/25/15 15:31	YES
01	CS-137	LCS	LCS	pCi/g	8.51E+01	8.25E+00	2.67E+00	8.69E+01	97.87	OK		08/03/15 00:00	1.00E+00	08/25/15 15:31	YES
02	AC-228	MBL	BLANK	pCi/g	-1.94E-02	1.44E-01	2.31E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	BI-214	MBL	BLANK	pCi/g	4.77E-02	8.26E-02	1.51E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	K-40	MBL	BLANK	pCi/g	-2.13E-01	3.70E-01	3.92E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PA-231	MBL	BLANK	pCi/g	-3.96E-01	1.18E+00	1.76E+00					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PB-210	MBL	BLANK	pCi/g	3.95E-01	3.31E-01	5.52E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PB-212	MBL	BLANK	pCi/g	5.06E-02	6.04E-02	1.04E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	PB-214	MBL	BLANK	pCi/g	1.45E-03	7.97E-02	1.29E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	RA-226	MBL	BLANK	pCi/g	4.77E-02	8.26E-02	1.51E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	RA-228	MBL	BLANK	pCi/g	-1.94E-02	1.44E-01	2.31E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	TH-234	MBL	BLANK	pCi/g	2.25E-01	3.99E-01	6.49E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
02	TL-208	MBL	BLANK	pCi/g	-1.57E-02	1.01E-01	1.67E-01					08/03/15 00:00	1.00E+00	08/25/15 17:19	NO
03	AC-228	DUP	FEEBRIS1D-8 075-076	pCi/g	9.43E-01	2.64E-01	4.96E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	BI-214	DUP	FEEBRIS1D-8 075-076	pCi/g	4.54E+00	4.11E-01	4.05E-01				NA	07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	K-40	DUP	FEEBRIS1D-8 075-076	pCi/g	1.07E+01	1.81E+00	1.46E+00				NA	07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	PA-231	DUP	FEEBRIS1D-8 075-076	pCi/g	9.77E-01	2.20E+00	3.69E+00					07/29/15 09:06	3.26E+02	08/25/15 15:24	NO
03	PB-210	DUP	FEEBRIS1D-8 075-076	pCi/g	3.44E+00	2.65E+00	4.36E+00					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	PB-212	DUP	FEEBRIS1D-8 075-076	pCi/g	7.87E-01	1.46E-01	3.18E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	PB-214	DUP	FEEBRIS1D-8 075-076	pCi/g	4.91E+00	4.13E-01	3.74E-01				NA	07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	RA-226	DUP	FEEBRIS1D-8 075-076	pCi/g	4.54E+00	4.11E-01	4.05E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	RA-228	DUP	FEEBRIS1D-8 075-076	pCi/g	9.43E-01	2.64E-01	4.96E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	TH-234	DUP	FEEBRIS1D-8 075-076	pCi/g	2.60E+00	2.08E+00	3.45E+00					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
03	TL-208	DUP	FEEBRIS1D-8 075-076	pCi/g	6.46E-01	1.58E-01	1.79E-01					07/29/15 09:06	3.26E+02	08/25/15 15:24	YES
04	AC-228	DO	FEEBRIS1D-8 075-076	pCi/g	8.91E-01	2.63E-01	5.15E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	BI-214	DO	FEEBRIS1D-8 075-076	pCi/g	4.37E+00	3.93E-01	3.17E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	K-40	DO	FEEBRIS1D-8 075-076	pCi/g	9.44E+00	1.82E+00	1.86E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	PA-231	DO	FEEBRIS1D-8 075-076	pCi/g	-2.58E-01	2.05E+00	3.32E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	NO
04	PB-210	DO	FEEBRIS1D-8 075-076	pCi/g	3.10E+00	2.16E+00	3.51E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	PB-212	DO	FEEBRIS1D-8 075-076	pCi/g	9.99E-01	1.67E-01	3.13E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	PB-214	DO	FEEBRIS1D-8 075-076	pCi/g	4.96E+00	4.07E-01	3.75E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	RA-226	DO	FEEBRIS1D-8 075-076	pCi/g	4.37E+00	3.93E-01	3.17E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	RA-228	DO	FEEBRIS1D-8 075-076	pCi/g	8.91E-01	2.63E-01	5.15E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
04	TH-234	DO	FEEBRIS1D-8 075-076	pCi/g	1.10E+00	2.18E+00	2.87E+00					07/29/15 09:06	3.26E+02	08/25/15 16:24	NO
04	TL-208	DO	FEEBRIS1D-8 075-076	pCi/g	8.60E-01	2.01E-01	1.79E-01					07/29/15 09:06	3.26E+02	08/25/15 16:24	YES
05	AC-228	TRG	FEEBRIS1D-8 090-091	pCi/g	6.85E-01	1.80E-01	3.58E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	BI-214	TRG	FEEBRIS1D-8 090-091	pCi/g	5.07E-01	9.60E-02	1.33E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	K-40	TRG	FEEBRIS1D-8 090-091	pCi/g	1.56E+01	2.00E+00	6.90E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES

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Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
05	PA-231	TRG	FEEBRIS1D-8 090-091	pCi/g	-3.20E-01	6.56E-01	1.62E+00					07/29/15 09:41	6.52E+02	08/25/15 16:16	NO
05	PB-210	TRG	FEEBRIS1D-8 090-091	pCi/g	2.94E+00	1.57E+00	2.48E+00					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	PB-212	TRG	FEEBRIS1D-8 090-091	pCi/g	6.14E-01	9.78E-02	1.68E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	PB-214	TRG	FEEBRIS1D-8 090-091	pCi/g	6.57E-01	1.02E-01	1.59E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	RA-226	TRG	FEEBRIS1D-8 090-091	pCi/g	5.07E-01	9.60E-02	1.33E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	RA-228	TRG	FEEBRIS1D-8 090-091	pCi/g	6.85E-01	1.80E-01	3.58E-01					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
05	TH-234	TRG	FEEBRIS1D-8 090-091	pCi/g	1.09E+00	6.54E-01	1.08E+00					07/29/15 09:41	6.52E+02	08/25/15 16:16	NO
05	TL-208	TRG	FEEBRIS1D-8 090-091	pCi/g	5.26E-01	1.04E-01	9.89E-02					07/29/15 09:41	6.52E+02	08/25/15 16:16	YES
06	AC-228	TRG	FEEBRIS1D-4 061-062	pCi/g	1.15E+00	2.63E-01	4.96E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	BI-214	TRG	FEEBRIS1D-4 061-062	pCi/g	1.25E+00	1.87E-01	2.05E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	K-40	TRG	FEEBRIS1D-4 061-062	pCi/g	1.93E+01	2.36E+00	9.09E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	PA-231	TRG	FEEBRIS1D-4 061-062	pCi/g	4.16E-01	1.05E+00	3.27E+00					07/30/15 07:35	5.61E+02	08/25/15 16:23	NO
06	PB-210	TRG	FEEBRIS1D-4 061-062	pCi/g	3.26E+00	2.12E+00	3.47E+00					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	PB-212	TRG	FEEBRIS1D-4 061-062	pCi/g	1.35E+00	1.61E-01	2.55E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	PB-214	TRG	FEEBRIS1D-4 061-062	pCi/g	1.23E+00	1.67E-01	2.72E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	RA-226	TRG	FEEBRIS1D-4 061-062	pCi/g	1.25E+00	1.87E-01	2.05E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	RA-228	TRG	FEEBRIS1D-4 061-062	pCi/g	1.15E+00	2.63E-01	4.96E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	TH-234	TRG	FEEBRIS1D-4 061-062	pCi/g	2.19E+00	2.12E+00	3.53E+00					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
06	TL-208	TRG	FEEBRIS1D-4 061-062	pCi/g	9.71E-01	1.92E-01	1.93E-01					07/30/15 07:35	5.61E+02	08/25/15 16:23	YES
07	AC-228	TRG	FEEBRIS1D-4 064-065	pCi/g	6.99E-01	1.72E-01	3.23E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	BI-214	TRG	FEEBRIS1D-4 064-065	pCi/g	8.59E-01	1.48E-01	2.13E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	K-40	TRG	FEEBRIS1D-4 064-065	pCi/g	1.49E+01	1.96E+00	1.08E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	PA-231	TRG	FEEBRIS1D-4 064-065	pCi/g	-2.56E-01	7.23E-01	1.86E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	NO
07	PB-210	TRG	FEEBRIS1D-4 064-065	pCi/g	1.37E+00	1.49E+00	2.48E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	PB-212	TRG	FEEBRIS1D-4 064-065	pCi/g	6.84E-01	1.09E-01	1.81E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	PB-214	TRG	FEEBRIS1D-4 064-065	pCi/g	8.20E-01	1.20E-01	2.16E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	RA-226	TRG	FEEBRIS1D-4 064-065	pCi/g	8.59E-01	1.48E-01	2.13E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	RA-228	TRG	FEEBRIS1D-4 064-065	pCi/g	6.99E-01	1.72E-01	3.23E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
07	TH-234	TRG	FEEBRIS1D-4 064-065	pCi/g	1.50E+00	7.22E-01	1.21E+00					07/30/15 07:40	6.08E+02	08/25/15 17:17	NO
07	TL-208	TRG	FEEBRIS1D-4 064-065	pCi/g	5.47E-01	1.04E-01	1.35E-01					07/30/15 07:40	6.08E+02	08/25/15 17:17	YES
08	AC-228	TRG	FEEBRIS1D-20 080-081	pCi/g	8.10E-02	9.61E-02	1.69E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	BI-214	TRG	FEEBRIS1D-20 080-081	pCi/g	7.14E-01	9.14E-02	4.31E-02					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	K-40	TRG	FEEBRIS1D-20 080-081	pCi/g	1.72E+00	4.93E-01	5.44E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	PA-231	TRG	FEEBRIS1D-20 080-081	pCi/g	3.89E-01	7.52E-01	1.30E+00					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	PB-210	TRG	FEEBRIS1D-20 080-081	pCi/g	9.23E-01	6.41E-01	1.53E+00					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	PB-212	TRG	FEEBRIS1D-20 080-081	pCi/g	1.43E-01	4.77E-02	1.20E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	PB-214	TRG	FEEBRIS1D-20 080-081	pCi/g	6.81E-01	1.00E-01	1.38E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
08	RA-226	TRG	FEEBRIS1D-20 080-081	pCi/g	7.14E-01	9.14E-02	4.31E-02					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES

00232

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Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
08	RA-228	TRG	FEEBRIS1D-20 080-081	pCi/g	8.10E-02	9.61E-02	1.69E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	TH-234	TRG	FEEBRIS1D-20 080-081	pCi/g	2.10E+00	7.72E-01	1.16E+00					07/30/15 09:57	6.78E+02	08/25/15 17:25	NO
08	TL-208	TRG	FEEBRIS1D-20 080-081	pCi/g	9.86E-02	6.12E-02	1.09E-01					07/30/15 09:57	6.78E+02	08/25/15 17:25	YES
09	AC-228	TRG	DUPLICATE 5	pCi/g	5.29E-02	1.53E-01	2.57E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	BI-214	TRG	DUPLICATE 5	pCi/g	8.35E-01	1.27E-01	1.23E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	K-40	TRG	DUPLICATE 5	pCi/g	1.97E+00	7.75E-01	1.04E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	PA-231	TRG	DUPLICATE 5	pCi/g	8.25E-01	1.25E+00	2.00E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	PB-210	TRG	DUPLICATE 5	pCi/g	1.86E+00	1.19E+00	1.64E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	PB-212	TRG	DUPLICATE 5	pCi/g	1.90E-01	6.67E-02	1.67E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	PB-214	TRG	DUPLICATE 5	pCi/g	8.35E-01	1.16E-01	1.68E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	RA-226	TRG	DUPLICATE 5	pCi/g	8.35E-01	1.27E-01	1.23E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	YES
09	RA-228	TRG	DUPLICATE 5	pCi/g	5.29E-02	1.53E-01	2.57E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	TH-234	TRG	DUPLICATE 5	pCi/g	1.87E+00	1.01E+00	1.42E+00					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
09	TL-208	TRG	DUPLICATE 5	pCi/g	8.43E-02	1.23E-01	2.07E-01					07/30/15 09:57	6.30E+02	08/25/15 17:25	NO
10	AC-228	TRG	FEEBRIS1D-20 089-090	pCi/g	1.15E+00	2.26E-01	4.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	BI-214	TRG	FEEBRIS1D-20 089-090	pCi/g	1.33E+00	1.77E-01	2.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	K-40	TRG	FEEBRIS1D-20 089-090	pCi/g	1.95E+01	2.51E+00	7.60E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	PA-231	TRG	FEEBRIS1D-20 089-090	pCi/g	-1.53E+00	2.17E+00	2.53E+00					07/30/15 10:24	5.01E+02	08/25/15 18:18	NO
10	PB-210	TRG	FEEBRIS1D-20 089-090	pCi/g	2.65E+00	2.20E+00	3.63E+00					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	PB-212	TRG	FEEBRIS1D-20 089-090	pCi/g	1.24E+00	1.66E-01	2.64E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	PB-214	TRG	FEEBRIS1D-20 089-090	pCi/g	1.27E+00	1.68E-01	2.21E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	RA-226	TRG	FEEBRIS1D-20 089-090	pCi/g	1.33E+00	1.77E-01	2.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	RA-228	TRG	FEEBRIS1D-20 089-090	pCi/g	1.15E+00	2.26E-01	4.23E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
10	TH-234	TRG	FEEBRIS1D-20 089-090	pCi/g	1.79E+00	9.26E-01	1.54E+00					07/30/15 10:24	5.01E+02	08/25/15 18:18	NO
10	TL-208	TRG	FEEBRIS1D-20 089-090	pCi/g	9.94E-01	1.67E-01	1.64E-01					07/30/15 10:24	5.01E+02	08/25/15 18:18	YES
11	AC-228	TRG	FEEBRIS1D-7 084-085	pCi/g	3.18E+01	9.30E+00	1.67E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	BI-214	TRG	FEEBRIS1D-7 084-085	pCi/g	3.63E+03	1.55E+02	1.17E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	K-40	TRG	FEEBRIS1D-7 084-085	pCi/g	2.79E+01	2.52E+01	4.20E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	PA-231	TRG	FEEBRIS1D-7 084-085	pCi/g	-2.63E+02	1.29E+02	1.55E+02					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO
11	PB-210	TRG	FEEBRIS1D-7 084-085	pCi/g	5.58E+02	1.04E+02	1.42E+02					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	PB-212	TRG	FEEBRIS1D-7 084-085	pCi/g	-1.08E+03	9.53E+01	9.09E+00					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO
11	PB-214	TRG	FEEBRIS1D-7 084-085	pCi/g	3.94E+03	2.51E+02	1.83E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	RA-226	TRG	FEEBRIS1D-7 084-085	pCi/g	3.63E+03	1.55E+02	1.17E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	RA-228	TRG	FEEBRIS1D-7 084-085	pCi/g	3.18E+01	9.30E+00	1.67E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	YES
11	TH-234	TRG	FEEBRIS1D-7 084-085	pCi/g	8.23E+00	3.63E+01	5.29E+01					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO
11	TL-208	TRG	FEEBRIS1D-7 084-085	pCi/g	1.40E+00	4.14E+00	3.24E+00					07/24/15 08:07	5.03E+02	08/25/15 15:26	NO

Count Room Report
Client: AMO Environmental Decisio

15-08002-Gamma-1 (pCi/g) in SO
Tracer ID:

Printed: 8/4/2015 11:29 AM
Page 1 of 1

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	08/03/15 00:00	1.0000				0.00		
02	MBL	BLANK	08/03/15 00:00	1.0000				0.00		
03	DUP	FEEBRIS1D-8 075-076	07/29/15 09:06	325.7400				0.00		
04	DO	FEEBRIS1D-8 075-076	07/29/15 09:06	325.7400				0.00		
05	TRG	FEEBRIS1D-8 090-091	07/29/15 09:41	652.0300				0.00		
06	TRG	FEEBRIS1D-4 061-062	07/30/15 07:35	560.5600				0.00		
07	TRG	FEEBRIS1D-4 064-065	07/30/15 07:40	608.3100				0.00		
08	TRG	FEEBRIS1D-20 080-081	07/30/15 09:57	678.4500				0.00		
09	TRG	DUPLICATE 5	07/30/15 09:57	630.3400				0.00		
10	TRG	FEEBRIS1D-20 089-090	07/30/15 10:24	500.7400				0.00		
11	TRG	FEEBRIS1D-7 084-085	07/24/15 08:07	502.8800				0.00		

00234

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404•352•8677
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www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1302

94268

Sand in 16 Ounce PP Taral Jar Filled to Top

Customer: Eberline Analytical Corporation
P.O. No.: 1304009, Item 7 Product Code: 8401-EG-SAN
Reference Date: 01-Jul-2013 12:00 PM EST **Grams of Master Source:** 0.017994

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Additional radionuclides were added gravimetrically from solutions calibrated by gamma-ray spectrometry, ionization chamber, or liquid scintillation counting. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty* , % Type u_A	u_B	U	Calibration Method*
Am-241	59.5	1.580E+05	———	2.094E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.641E+05	2.952E+03	0.5	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.865E+04	1.595E+03	0.4	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.243E+05	2.236E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.627E+05	4.727E+03	0.3	1.9	3.8	HPGe
Sn-113	391.7	1.151E+02	1.736E+05	3.124E+03	0.4	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.120E+05	2.015E+03	0.7	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.197E+05	7.553E+03	0.5	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.074E+05	3.732E+03	0.6	1.9	4.0	HPGe
Co-60	1332.5	1.925E+03	2.074E+05	3.732E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.444E+05	7.996E+03	0.7	1.9	4.0	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

00235

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/4/2015 11:29 AM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
15-08002	1	Gamma	grams	8/25/2015	KSALLINGS

Lab Fraction	AMO Environmental Decisions Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	FEEBRIS1D-8 075-076	DUP					3.2574E+02	3.2574E+02				
04	FEEBRIS1D-8 075-076	DO					3.2574E+02	3.2574E+02				
05	FEEBRIS1D-8 090-091	TRG					6.5203E+02	6.5203E+02				
06	FEEBRIS1D-4 061-062	TRG					5.6056E+02	5.6056E+02				
07	FEEBRIS1D-4 064-065	TRG					6.0831E+02	6.0831E+02				
08	FEEBRIS1D-20 080-081	TRG					6.7845E+02	6.7845E+02				
09	DUPLICATE 5	TRG					6.3034E+02	6.3034E+02				
10	FEEBRIS1D-20 089-090	TRG					5.0074E+02	5.0074E+02				
11	FEEBRIS1D-7 084-085	TRG					5.0288E+02	5.0288E+02				

Comments	

002236

Technician: Kenny Sallings Date: 8/4/15

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Printed: 8/4/2015 7:03 AM

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
15-08002	8/25/2015	8/3/2015	8/4/2015	8/5/2015	KSALLINGS

Eberline Fraction	AMO Environmental Decisions Client ID	Tare (g) Pan Wt	Gross (g) Wet Wt.	Gross (g) Dry Wt.	Net (g) Wet Wt.	Net (g) Dry Wt.	Percent Liquid	Percent Solid	Gamma Dry Wt.	Gamma LEPS Wt.	Special Info
04	FEEBRIS1D-8 075-076	29.1400	1285.8400	939.6200	1256.7000	910.4800	27.55%	72.45%			
05	FEEBRIS1D-8 090-091	14.5200	1361.5600	1123.6600	1347.0400	1109.1400	17.66%	82.34%			
06	FEEBRIS1D-4 061-062	28.9300	1585.4000	1326.6400	1556.4700	1297.7100	16.62%	83.38%			
07	FEEBRIS1D-4 064-065	29.0900	1146.8400	987.6800	1117.7500	958.5900	14.24%	85.76%			
08	FEEBRIS1D-20 080-081	29.0500	1884.4500	1712.7000	1855.4000	1683.6500	9.26%	90.74%			
09	DUPLICATE 5	29.3000	1915.5000	1753.4000	1886.2000	1724.1000	8.59%	91.41%			
10	FEEBRIS1D-20 089-090	29.0600	1419.9000	1184.3000	1390.8400	1155.2400	16.94%	83.06%			
11	FEEBRIS1D-7 084-085	14.5600	643.0500	530.1000	628.4900	515.5400	17.97%	82.03%			

Comments	
Special Codes	**H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)**

00237

Technician: Kenny Sallings Date: **Analysis: Rough Prep Logbook**

Analysis: Gamma Page No. 9363

KB 8/25/15

Apex-Gamma

Analysis Report for 1508002-01
GAS-1302

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-01
Sample Description	: GAS-1302
Sample Type	: SOIL
Sample Size	: 7.360E+02 grams
Facility	: Countroom
Sample Taken On	: 7/1/2013 10:33:18AM
Acquisition Started	: 8/25/2015 3:31:36PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 1800.0 seconds
Real Time	: 1823.3 seconds
Dead Time	: 1.28 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 14 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 26404

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 8/26/15

00238

Analysis Report for 1508002-01

GAS-1302

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 4:02:04PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	22.33	21.58	0.0000	0.00
2	31.92	31.17	0.0000	0.00
3	53.81	53.07	0.0000	0.00
4	59.38	58.65	0.0000	0.00
5	67.74	67.01	0.0000	0.00
6	87.78	87.05	0.0000	0.00
7	121.83	121.11	0.0000	0.00
8	136.38	135.68	0.0000	0.00
9	165.71	165.02	0.0000	0.00
10	188.64	187.95	0.0000	0.00
11	216.81	216.14	0.0000	0.00
12	392.29	391.70	0.0000	0.00
13	512.66	512.12	0.0000	0.00
14	609.93	609.44	0.0000	0.00
15	661.67	661.21	0.0000	0.00
16	698.77	698.32	0.0000	0.00
17	724.56	724.13	0.0000	0.00
18	898.18	897.83	0.0000	0.00
19	1149.17	1148.96	0.0000	0.00
20	1164.81	1164.61	0.0000	0.00
21	1173.29	1173.09	0.0000	0.00
22	1237.59	1237.43	0.0000	0.00
23	1332.56	1332.45	0.0000	0.00
24	1371.82	1371.73	0.0000	0.00
25	1418.65	1418.60	0.0000	0.00
26	1463.68	1463.66	0.0000	0.00
27	1601.30	1601.36	0.0000	0.00
28	1720.82	1720.95	0.0000	0.00
29	1731.68	1731.82	0.0000	0.00
30	1835.87	1836.08	0.0000	0.00
31	1946.28	1946.56	0.0000	0.00
32	2112.44	2112.84	0.0000	0.00
33	2246.56	2247.05	0.0000	0.00
34	2319.17	2319.71	0.0000	0.00
35	2505.88	2506.57	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-01

GAS-1302

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	22.33	19 -	25	21.58	8.09E+04	816.62	6.37E+04	2.56
	2	31.92	29 -	34	31.17	1.27E+03	239.20	1.05E+04	2.42
M	3	53.81	42 -	62	53.07	1.87E+04	1000.50	5.64E+04	6.63
m	4	59.38	42 -	62	58.65	5.63E+04	603.34	1.91E+04	2.35
	5	67.74	64 -	70	67.01	7.36E+02	346.88	2.15E+04	3.14
	6	87.78	80 -	93	87.05	2.87E+04	655.50	3.43E+04	2.46
	7	121.83	114 -	126	121.11	6.58E+03	439.97	1.96E+04	2.46
	8	136.38	133 -	140	135.68	4.41E+02	264.99	1.14E+04	2.20
	9	165.71	160 -	168	165.02	9.88E+02	277.13	1.12E+04	2.77
	10	188.64	185 -	192	187.95	2.03E+02	243.61	9.77E+03	3.61
	11	216.81	213 -	220	216.14	2.64E+02	238.30	9.30E+03	4.91
	12	392.29	388 -	395	391.70	3.01E+02	176.47	4.98E+03	2.37
	13	512.66	509 -	516	512.12	1.32E+02	147.38	3.52E+03	2.73
	14	609.93	607 -	613	609.44	1.18E+02	115.32	2.35E+03	1.70
	15	661.67	653 -	668	661.21	1.21E+04	316.80	5.21E+03	2.63
	16	698.77	692 -	703	698.32	2.16E+02	162.14	3.17E+03	6.34
	17	724.56	721 -	728	724.13	1.06E+02	118.59	2.28E+03	4.69
	18	898.18	894 -	902	897.83	2.44E+02	152.14	3.41E+03	1.94
	19	1149.17	1146 -	1153	1148.96	7.84E+01	87.95	1.25E+03	2.33
M	20	1164.81	1161 -	1179	1164.61	9.09E+01	74.56	9.77E+02	3.51
m	21	1173.29	1161 -	1179	1173.09	1.00E+04	215.81	1.06E+03	2.73
	22	1237.59	1231 -	1245	1237.43	1.29E+02	76.49	5.59E+02	12.16
	23	1332.56	1326 -	1339	1332.45	9.13E+03	199.94	3.75E+02	2.87
	24	1371.82	1369 -	1375	1371.73	1.57E+01	18.55	4.26E+01	2.33
	25	1418.65	1413 -	1424	1418.60	2.64E+01	25.77	6.32E+01	4.09
	26	1463.68	1459 -	1469	1463.66	2.67E+01	25.99	7.27E+01	5.14
	27	1601.30	1596 -	1608	1601.36	2.13E+01	26.40	7.35E+01	9.65
	28	1720.82	1718 -	1724	1720.95	1.16E+01	11.88	1.67E+01	2.40
	29	1731.68	1729 -	1735	1731.82	9.00E+00	10.63	1.40E+01	1.78
	30	1835.87	1828 -	1843	1836.08	1.39E+02	30.92	4.00E+01	3.19
	31	1946.28	1942 -	1950	1946.56	1.13E+01	11.35	1.15E+01	1.34
	32	2112.44	2108 -	2119	2112.84	1.06E+01	11.83	1.28E+01	5.02
	33	2246.56	2241 -	2252	2247.05	1.13E+01	9.59	5.50E+00	7.42
	34	2319.17	2315 -	2322	2319.71	7.00E+00	5.29	0.00E+00	2.14
	35	2505.88	2501 -	2510	2506.57	4.60E+01	13.56	0.00E+00	2.41

Analysis Report for 1508002-01

GAS-1302

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	22.33	19 -	25	8.09E+04	816.62	6.37E+04	4.82E+02
	2	31.92	29 -	34	1.27E+03	239.20	1.05E+04	1.88E+02
M	3	53.81	42 -	62	1.87E+04	1000.50	5.64E+04	3.90E+02
m	4	59.38	42 -	62	5.63E+04	603.34	1.91E+04	2.27E+02
	5	67.74	64 -	70	7.36E+02	346.88	2.15E+04	2.82E+02
	6	87.78	80 -	93	2.87E+04	655.50	3.43E+04	4.61E+02
	7	121.83	114 -	126	6.58E+03	439.97	1.96E+04	3.36E+02
	8	136.38	133 -	140	4.41E+02	264.99	1.14E+04	2.15E+02
	9	165.71	160 -	168	9.88E+02	277.13	1.12E+04	2.22E+02
	10	188.64	185 -	192	2.03E+02	243.61	9.77E+03	1.99E+02
	11	216.81	213 -	220	2.64E+02	238.30	9.30E+03	1.94E+02
	12	392.29	388 -	395	3.01E+02	176.47	4.98E+03	1.42E+02
	13	512.66	509 -	516	1.32E+02	147.38	3.52E+03	1.20E+02
	14	609.93	607 -	613	1.18E+02	115.32	2.35E+03	9.31E+01
	15	661.67	653 -	668	1.21E+04	316.80	5.21E+03	1.88E+02
	16	698.77	692 -	703	2.16E+02	162.14	3.17E+03	1.31E+02
	17	724.56	721 -	728	1.06E+02	118.59	2.28E+03	9.60E+01
	18	898.18	894 -	902	2.44E+02	152.14	3.41E+03	1.22E+02
	19	1149.17	1146 -	1153	7.84E+01	87.95	1.25E+03	7.08E+01
M	20	1164.81	1161 -	1179	9.09E+01	74.56	9.77E+02	5.14E+01
m	21	1173.29	1161 -	1179	1.00E+04	215.81	1.06E+03	5.36E+01
	22	1237.59	1231 -	1245	1.29E+02	76.49	5.59E+02	6.00E+01
	23	1332.56	1326 -	1339	9.13E+03	199.94	3.75E+02	4.83E+01
	24	1371.82	1369 -	1375	1.57E+01	18.55	4.26E+01	1.38E+01
	25	1418.65	1413 -	1424	2.64E+01	25.77	6.32E+01	1.94E+01
	26	1463.68	1459 -	1469	2.67E+01	25.99	7.27E+01	1.96E+01
	27	1601.30	1596 -	1608	2.13E+01	26.40	7.35E+01	2.03E+01
	28	1720.82	1718 -	1724	1.16E+01	11.88	1.67E+01	8.00E+00
	29	1731.68	1729 -	1735	9.00E+00	10.63	1.40E+01	7.21E+00
	30	1835.87	1828 -	1843	1.39E+02	30.92	4.00E+01	1.64E+01
	31	1946.28	1942 -	1950	1.13E+01	11.35	1.15E+01	7.52E+00

Analysis Report for 1508002-01

GAS-1302

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	2112.44	2108 -	2119	1.06E+01	11.83	1.28E+01	8.12E+00
33	2246.56	2241 -	2252	1.13E+01	9.59	5.50E+00	5.64E+00
34	2319.17	2315 -	2322	7.00E+00	5.29	0.00E+00	0.00E+00
35	2505.88	2501 -	2510	4.60E+01	13.56	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	22.33	19 -	25	21.58	8.09E+04	816.62	6.37E+04	.....
	2	31.92	29 -	34	31.17	1.27E+03	239.20	1.05E+04	.....
M	3	53.81	42 -	62	53.07	1.87E+04	1000.50	5.64E+04	.....
m	4	59.38	42 -	62	58.65	5.63E+04	603.34	1.91E+04	AM-241
	5	67.74	64 -	70	67.01	7.36E+02	346.88	2.15E+04	TA-182 TH-230 TI-44
	6	87.78	80 -	93	87.05	2.87E+04	655.50	3.43E+04	SN-126 CD-109 LU-176
	7	121.83	114 -	126	121.11	6.58E+03	439.97	1.96E+04	EU-152 CO-57 SE-75
	8	136.38	133 -	140	135.68	4.41E+02	264.99	1.14E+04	CO-57 SE-75
	9	165.71	160 -	168	165.02	9.88E+02	277.13	1.12E+04	CE-139
	10	188.64	185 -	192	187.95	2.03E+02	243.61	9.77E+03	.....
	11	216.81	213 -	220	216.14	2.64E+02	238.30	9.30E+03	.....
	12	392.29	388 -	395	391.70	3.01E+02	176.47	4.98E+03	SN-113
	13	512.66	509 -	516	512.12	1.32E+02	147.38	3.52E+03	.....
	14	609.93	607 -	613	609.44	1.18E+02	115.32	2.35E+03	BI-214
	15	661.67	653 -	668	661.21	1.21E+04	316.80	5.21E+03	CS-137

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	16	698.77	692 -	703	698.32	2.16E+02	162.14	3.17E+03	.....
	17	724.56	721 -	728	724.13	1.06E+02	118.59	2.28E+03	ZR-95
	18	898.18	894 -	902	897.83	2.44E+02	152.14	3.41E+03	Y-88
	19	1149.17	1146 -	1153	1148.96	7.84E+01	87.95	1.25E+03	.....
M	20	1164.81	1161 -	1179	1164.61	9.09E+01	74.56	9.77E+02	.....
m	21	1173.29	1161 -	1179	1173.09	1.00E+04	215.81	1.06E+03	CO-60
	22	1237.59	1231 -	1245	1237.43	1.29E+02	76.49	5.59E+02	CO-56
	23	1332.56	1326 -	1339	1332.45	9.13E+03	199.94	3.75E+02	CO-60
	24	1371.82	1369 -	1375	1371.73	1.57E+01	18.55	4.26E+01	.....
	25	1418.65	1413 -	1424	1418.60	2.64E+01	25.77	6.32E+01	.....
	26	1463.68	1459 -	1469	1463.66	2.67E+01	25.99	7.27E+01	.....
	27	1601.30	1596 -	1608	1601.36	2.13E+01	26.40	7.35E+01	.....
	28	1720.82	1718 -	1724	1720.95	1.16E+01	11.88	1.67E+01	.....
	29	1731.68	1729 -	1735	1731.82	9.00E+00	10.63	1.40E+01	.....
	30	1835.87	1828 -	1843	1836.08	1.39E+02	30.92	4.00E+01	Y-88
	31	1946.28	1942 -	1950	1946.56	1.13E+01	11.35	1.15E+01	.....
	32	2112.44	2108 -	2119	2112.84	1.06E+01	11.83	1.28E+01	.....
	33	2246.56	2241 -	2252	2247.05	1.13E+01	9.59	5.50E+00	.....
	34	2319.17	2315 -	2322	2319.71	7.00E+00	5.29	0.00E+00	.....
	35	2505.88	2501 -	2510	2506.57	4.60E+01	13.56	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	22.33	8.09E+04	816.62	3.04E-02	1.78E-03
	2	31.92	1.27E+03	239.20	2.91E-02	1.78E-03
M	3	53.81	1.87E+04	1000.50	2.49E-02	1.78E-03
m	4	59.38	5.63E+04	603.34	2.39E-02	1.78E-03
	5	67.74	7.36E+02	346.88	2.25E-02	1.74E-03
	6	87.78	2.87E+04	655.50	1.96E-02	1.63E-03
	7	121.83	6.58E+03	439.97	1.60E-02	1.53E-03
	8	136.38	4.41E+02	264.99	1.47E-02	1.42E-03
	9	165.71	9.88E+02	277.13	1.27E-02	1.21E-03
	10	188.64	2.03E+02	243.61	1.15E-02	1.14E-03

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	11	216.81	2.64E+02	238.30	1.02E-02	1.05E-03
	12	392.29	3.01E+02	176.47	5.96E-03	7.35E-04
	13	512.66	1.32E+02	147.38	4.59E-03	5.59E-04
	14	609.93	1.18E+02	115.32	3.87E-03	4.16E-04
	15	661.67	1.21E+04	316.80	3.57E-03	3.40E-04
	16	698.77	2.16E+02	162.14	3.38E-03	3.19E-04
	17	724.56	1.06E+02	118.59	3.27E-03	3.05E-04
	18	898.18	2.44E+02	152.14	2.65E-03	2.08E-04
	19	1149.17	7.84E+01	87.95	2.09E-03	1.76E-04
M	20	1164.81	9.09E+01	74.56	2.07E-03	1.74E-04
m	21	1173.29	1.00E+04	215.81	2.05E-03	1.73E-04
	22	1237.59	1.29E+02	76.49	1.95E-03	1.90E-04
	23	1332.56	9.13E+03	199.94	1.83E-03	2.16E-04
	24	1371.82	1.57E+01	18.55	1.78E-03	2.08E-04
	25	1418.65	2.64E+01	25.77	1.73E-03	1.98E-04
	26	1463.68	2.67E+01	25.99	1.68E-03	1.88E-04
	27	1601.30	2.13E+01	26.40	1.56E-03	1.60E-04
	28	1720.82	1.16E+01	11.88	1.46E-03	1.35E-04
	29	1731.68	9.00E+00	10.63	1.46E-03	1.33E-04
	30	1835.87	1.39E+02	30.92	1.39E-03	1.11E-04
	31	1946.28	1.13E+01	11.35	1.33E-03	1.11E-04
	32	2112.44	1.06E+01	11.83	1.25E-03	1.11E-04
	33	2246.56	1.13E+01	9.59	1.19E-03	1.11E-04
	34	2319.17	7.00E+00	5.29	1.16E-03	1.11E-04
	35	2505.88	4.60E+01	13.56	1.10E-03	1.11E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	22.33	8.09E+04	816.62			8.09E+04	8.17E+02
	2	31.92	1.27E+03	239.20			1.27E+03	2.39E+02
M	3	53.81	1.87E+04	1000.50			1.87E+04	1.00E+03
m	4	59.38	5.63E+04	603.34			5.63E+04	6.03E+02
	5	67.74	7.36E+02	346.88			7.36E+02	3.47E+02

00244

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	6	87.78	2.87E+04	655.50			2.87E+04	6.55E+02
	7	121.83	6.58E+03	439.97			6.58E+03	4.40E+02
	8	136.38	4.41E+02	264.99			4.41E+02	2.65E+02
	9	165.71	9.88E+02	277.13			9.88E+02	2.77E+02
	10	188.64	2.03E+02	243.61			2.03E+02	2.44E+02
	11	216.81	2.64E+02	238.30			2.64E+02	2.38E+02
	12	392.29	3.01E+02	176.47			3.01E+02	1.76E+02
	13	512.66	1.32E+02	147.38			1.32E+02	1.47E+02
	14	609.93	1.18E+02	115.32	8.49E-01	1.73E+00	1.18E+02	1.15E+02
	15	661.67	1.21E+04	316.80			1.21E+04	3.17E+02
	16	698.77	2.16E+02	162.14			2.16E+02	1.62E+02
	17	724.56	1.06E+02	118.59			1.06E+02	1.19E+02
	18	898.18	2.44E+02	152.14			2.44E+02	1.52E+02
	19	1149.17	7.84E+01	87.95			7.84E+01	8.80E+01
M	20	1164.81	9.09E+01	74.56			9.09E+01	7.46E+01
m	21	1173.29	1.00E+04	215.81			1.00E+04	2.16E+02
	22	1237.59	1.29E+02	76.49			1.29E+02	7.65E+01
	23	1332.56	9.13E+03	199.94			9.13E+03	2.00E+02
	24	1371.82	1.57E+01	18.55			1.57E+01	1.85E+01
	25	1418.65	2.64E+01	25.77			2.64E+01	2.58E+01
	26	1463.68	2.67E+01	25.99			2.67E+01	2.60E+01
	27	1601.30	2.13E+01	26.40			2.13E+01	2.64E+01
	28	1720.82	1.16E+01	11.88			1.16E+01	1.19E+01
	29	1731.68	9.00E+00	10.63			9.00E+00	1.06E+01
	30	1835.87	1.39E+02	30.92			1.39E+02	3.09E+01
	31	1946.28	1.13E+01	11.35			1.13E+01	1.13E+01
	32	2112.44	1.06E+01	11.83			1.06E+01	1.18E+01
	33	2246.56	1.13E+01	9.59			1.13E+01	9.59E+00
	34	2319.17	7.00E+00	5.29			7.00E+00	5.29E+00
	35	2505.88	4.60E+01	13.56			4.60E+01	1.36E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 4:02:04PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	22.33	8.09E+04	816.62			8.09E+04	8.17E+02
	2	31.92	1.27E+03	239.20			1.27E+03	2.39E+02
M	3	53.81	1.87E+04	1000.50			1.87E+04	1.00E+03
m	4	59.38	5.63E+04	603.34			5.63E+04	6.03E+02
	5	67.74	7.36E+02	346.88			7.36E+02	3.47E+02
	6	87.78	2.87E+04	655.50			2.87E+04	6.55E+02
	7	121.83	6.58E+03	439.97			6.58E+03	4.40E+02
	8	136.38	4.41E+02	264.99			4.41E+02	2.65E+02
	9	165.71	9.88E+02	277.13			9.88E+02	2.77E+02
	10	188.64	2.03E+02	243.61			2.03E+02	2.44E+02
	11	216.81	2.64E+02	238.30			2.64E+02	2.38E+02
	12	392.29	3.01E+02	176.47			3.01E+02	1.76E+02
	13	512.66	1.32E+02	147.38			1.32E+02	1.47E+02
	14	609.93	1.18E+02	115.32	8.49E-01	1.73E+00	1.18E+02	1.15E+02
	15	661.67	1.21E+04	316.80			1.21E+04	3.17E+02
	16	698.77	2.16E+02	162.14			2.16E+02	1.62E+02
	17	724.56	1.06E+02	118.59			1.06E+02	1.19E+02
	18	898.18	2.44E+02	152.14			2.44E+02	1.52E+02
	19	1149.17	7.84E+01	87.95			7.84E+01	8.80E+01
M	20	1164.81	9.09E+01	74.56			9.09E+01	7.46E+01
m	21	1173.29	1.00E+04	215.81			1.00E+04	2.16E+02
	22	1237.59	1.29E+02	76.49			1.29E+02	7.65E+01
	23	1332.56	9.13E+03	199.94			9.13E+03	2.00E+02
	24	1371.82	1.57E+01	18.55			1.57E+01	1.85E+01
	25	1418.65	2.64E+01	25.77			2.64E+01	2.58E+01
	26	1463.68	2.67E+01	25.99			2.67E+01	2.60E+01
	27	1601.30	2.13E+01	26.40			2.13E+01	2.64E+01
	28	1720.82	1.16E+01	11.88			1.16E+01	1.19E+01
	29	1731.68	9.00E+00	10.63			9.00E+00	1.06E+01
	30	1835.87	1.39E+02	30.92			1.39E+02	3.09E+01
	31	1946.28	1.13E+01	11.35			1.13E+01	1.13E+01
	32	2112.44	1.06E+01	11.83			1.06E+01	1.18E+01
	33	2246.56	1.13E+01	9.59			1.13E+01	9.59E+00
	34	2319.17	7.00E+00	5.29			7.00E+00	5.29E+00
	35	2505.88	4.60E+01	13.56			4.60E+01	1.36E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1508002-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.951	122.06	*	85.51	7.33E+01	8.58E+00
		136.48	*	10.60	4.29E+01	2.62E+01
CO-60	0.998	1173.22	*	100.00	1.32E+02	1.15E+01
		1332.49	*	100.00	1.35E+02	1.62E+01
Y-88	0.760	898.02	*	93.40	3.32E+02	2.09E+02
		1836.01	*	99.38	3.39E+02	8.01E+01
CD-109	0.976	88.03	*	3.72	2.59E+03	2.71E+02
SN-113	0.704	255.12		1.93		
		391.69	*	64.90	1.80E+02	1.08E+02
SN-126	0.993	87.57	*	37.00	8.05E+01	6.94E+00
CS-137	1.000	661.65	*	85.12	8.51E+01	8.42E+00
CE-139	0.847	165.85	*	80.35	1.03E+02	3.04E+01
BI-214	0.425	609.31	*	46.30	1.34E+00	1.32E+00
		1120.29		15.10		
		1764.49		15.80		
		2204.22		4.98		
AM-241	0.996	59.54	*	35.90	1.34E+02	1.01E+01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:02:04PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	22.33	4.49433E+01	0.50		
	2	31.92	7.02910E-01	9.45		
M	3	53.81	1.03758E+01	2.68		
	5	67.74	4.08638E-01	23.58	Tol.	TA-182 TH-230
	10	188.64	1.12565E-01	60.12		
	11	216.81	1.46593E-01	45.16		
	13	512.66	7.33915E-02	55.78		
	16	698.77	1.20229E-01	37.46		
	17	724.56	5.91305E-02	55.71	Tol.	ZR-95
	19	1149.17	4.35533E-02	56.10		

Analysis Report for 1508002-01

GAS-1302

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	20	1164.81	5.05201E-02	40.99		
	22	1237.59	7.14992E-02	29.72		
	24	1371.82	8.71622E-03	59.11		
	25	1418.65	1.46743E-02	48.78		
	26	1463.68	1.48192E-02	48.72		
	27	1601.30	1.18151E-02	62.06		
	28	1720.82	6.47222E-03	51.01		
	29	1731.68	5.00000E-03	59.06		
	31	1946.28	6.25817E-03	50.36		
	32	2112.44	5.88235E-03	55.87		
	33	2246.56	6.25000E-03	42.63		
	34	2319.17	3.88889E-03	37.80		
	35	2505.88	2.55556E-02	14.74	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
CO-57	0.95	122.06	*	85.51	7.33E+01	8.58E+00
		136.48	*	10.60	4.29E+01	2.62E+01
CO-60	0.99	1173.22	*	100.00	1.32E+02	1.15E+01
		1332.49	*	100.00	1.35E+02	1.62E+01
Y-88	0.76	898.02	*	93.40	3.32E+02	2.09E+02
		1836.01	*	99.38	3.39E+02	8.01E+01
CD-109	0.97	88.03	*	3.72	2.59E+03	2.71E+02
SN-113	0.70	255.12		1.93		
		391.69	*	64.90	1.80E+02	1.08E+02
SN-126	0.99	87.57	*	37.00	8.05E+01	6.94E+00
CS-137	1.00	661.65	*	85.12	8.51E+01	8.42E+00
CE-139	0.84	165.85	*	80.35	1.03E+02	3.04E+01
BI-214	0.42	609.31	*	46.30	1.34E+00	1.32E+00
		1120.29		15.10		
		1764.49		15.80		

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Analysis Report for 1508002-01

GAS-1302

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.42	2204.22		4.98		
AM-241	0.99	59.54	*	35.90	1.34E+02	1.01E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	CO-57	0.951	7.03E+01	8.15E+00	
	CO-60	0.998	1.33E+02	9.38E+00	
	Y-88	0.760	3.38E+02	7.48E+01	
?	CD-109	0.976	2.59E+03	2.71E+02	
	SN-113	0.704	1.80E+02	1.08E+02	
?	SN-126	0.993	8.05E+01	6.94E+00	
	CS-137	1.000	8.51E+01	8.42E+00	
	CE-139	0.847	1.03E+02	3.04E+01	
	BI-214	0.425	1.34E+00	1.32E+00	
	AM-241	0.996	1.34E+02	1.01E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-01
GAS-1302

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:02:04PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	22.33	4.49433E+01	0.50		
	2	31.92	7.02910E-01	9.45		
M	3	53.81	1.03758E+01	2.68		
	5	67.74	4.08638E-01	23.58	Tol.	TA-182 TH-230
	10	188.64	1.12565E-01	60.12		
	11	216.81	1.46593E-01	45.16		
	13	512.66	7.33915E-02	55.78		
	16	698.77	1.20229E-01	37.46		
	17	724.56	5.91305E-02	55.71	Tol.	ZR-95
	19	1149.17	4.35533E-02	56.10		
M	20	1164.81	5.05201E-02	40.99		
	22	1237.59	7.14992E-02	29.72		
	24	1371.82	8.71622E-03	59.11		
	25	1418.65	1.46743E-02	48.78		
	26	1463.68	1.48192E-02	48.72		
	27	1601.30	1.18151E-02	62.06		
	28	1720.82	6.47222E-03	51.01		
	29	1731.68	5.00000E-03	59.06		
	31	1946.28	6.25817E-03	50.36		
	32	2112.44	5.88235E-03	55.87		
	33	2246.56	6.25000E-03	42.63		
	34	2319.17	3.88889E-03	37.80		
	35	2505.88	2.55556E-02	14.74	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-01

GAS-1302

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		BE-7	477.59		10.42	-8.89E+03	2.55E+05	2.55E+05
+		NA-22	1274.54		99.94	6.34E-01	1.31E+00	1.31E+00
+	@	NA-24	1368.53		99.99	1.00E+26	1.00E+26	1.00E+26
	@		2754.09		99.86	0.00E+00		1.00E+26
+		AL-26	1808.65		99.76	-1.70E-01	3.34E-01	3.34E-01
+		K-40	1460.81		10.67	-6.48E-01	4.22E+00	4.22E+00
+	@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+		TI-44	67.88		94.40	-1.34E+01	5.52E-01	5.52E-01
			78.34		96.00	2.29E-02		6.02E-01
+		SC-46	889.25		99.98	3.91E+01	9.61E+02	9.84E+02
			1120.51		99.99	-4.42E+01		9.61E+02
+		V-48	983.52		99.98	-5.79E+12	4.20E+14	9.63E+14
			1312.10		97.50	-2.50E+14		4.20E+14
+		CR-51	320.08		9.83	1.13E+08	2.65E+09	2.65E+09
+		MN-54	834.83		99.97	-3.15E+00	7.35E+00	7.35E+00
+		CO-56	846.75		99.96	2.03E+02	1.04E+03	1.34E+03
			1037.75		14.03	8.47E+02		1.11E+04
			1238.25		67.00	3.77E+02		1.20E+03
			1771.40		15.51	-1.84E+03		2.35E+03
			2598.48		16.90	9.37E+01		1.04E+03
+		CO-57	122.06	*	85.51	7.33E+01	7.53E+00	7.53E+00
			136.48	*	10.60	4.29E+01		4.21E+01
+		CO-58	810.76		99.40	1.08E+03	2.79E+03	2.79E+03
+		FE-59	1099.22		56.50	-1.36E+05	3.16E+05	5.63E+05
			1291.56		43.20	-1.09E+05		3.16E+05
+		CO-60	1173.22	*	100.00	1.32E+02	1.47E+00	3.54E+00
			1332.49	*	100.00	1.35E+02		1.47E+00
+		ZN-65	1115.52		50.75	2.03E+01	2.89E+01	2.89E+01
+	@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26
	@		208.95		2.24	1.00E+26		1.00E+26
	@		300.22		16.00	1.00E+26		1.00E+26
+		SE-75	121.11		16.70	4.66E+03	8.55E+01	3.87E+02
			136.00		59.20	-1.01E+01		8.55E+01
			264.65		59.80	-3.08E+01		1.12E+02
			279.53		25.20	-7.60E+01		2.68E+02
			400.65		11.40	-3.96E+02		7.24E+02
+		RB-82	776.52		13.00	1.12E+09	1.62E+10	1.62E+10
+		RB-83	520.41		46.00	6.71E+01	1.13E+03	1.13E+03
			529.64		30.30	8.72E+02		1.75E+03
			552.65		16.40	1.66E+03		3.24E+03
+		KR-85	513.99		0.43	3.26E+01	2.54E+02	2.54E+02
+		SR-85	513.99		99.27	5.49E+02	4.27E+03	4.27E+03

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Analysis Report for 1508002-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		Y-88	898.02	*	93.40	3.32E+02	8.68E+01	3.37E+02
			1836.01	*	99.38	3.39E+02		8.68E+01
+		NB-93M	16.57		9.43	-2.65E+02	6.34E+00	6.34E+00
+		NB-94	702.63		100.00	-2.68E-01	1.03E+00	1.03E+00
			871.10		100.00	-2.52E-01		1.43E+00
+		NB-95	765.79		99.81	-6.45E+05	6.42E+06	6.42E+06
+	@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26
+		ZR-95	724.18		43.70	-1.75E+03	1.01E+04	1.23E+04
			756.72		55.30	-1.89E+02		1.01E+04
+	@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26
	@		739.58		12.80	1.00E+26		1.00E+26
	@		778.00		4.50	1.00E+26		1.00E+26
+		RU-103	497.08		89.00	3.86E+04	1.10E+06	1.10E+06
+		RU-106	621.84		9.80	-2.19E+01	4.46E+01	4.46E+01
+		AG-108M	433.93		89.90	-4.92E-01	1.08E+00	1.08E+00
			614.37		90.40	-2.00E-02		1.13E+00
			722.95		90.50	-1.12E-01		1.23E+00
+		CD-109	88.03	*	3.72	2.59E+03	8.35E+01	8.35E+01
+		AG-110M	657.75		93.14	1.97E+02	1.49E+01	2.35E+01
			677.61		10.53	7.43E+00		8.46E+01
			706.67		16.46	-3.77E+01		5.43E+01
			763.93		21.98	-1.24E+01		4.62E+01
			884.67		71.63	1.57E+00		1.82E+01
			1384.27		23.94	0.00E+00		1.49E+01
+		CD-113M	263.70		0.02	-7.33E+02	3.42E+03	3.42E+03
+		SN-113	255.12		1.93	1.94E+03	1.71E+02	4.17E+03
			391.69	*	64.90	1.80E+02		1.71E+02
+		TE123M	159.00		84.10	-7.51E-01	6.12E+01	6.12E+01
+		SB-124	602.71		97.87	-5.32E+02	5.44E+03	8.52E+03
			645.85		7.26	-4.07E+04		1.20E+05
			722.78		11.10	9.62E+02		8.37E+04
			1691.02		49.00	-1.95E+03		5.44E+03
+		I-125	35.49		6.49	-1.02E+05	4.35E+04	4.35E+04
+		SB-125	176.33		6.89	-3.27E+00	5.55E+00	1.42E+01
			427.89		29.33	1.83E+00		5.55E+00
			463.38		10.35	2.99E+00		1.74E+01
			600.56		17.80	3.95E+00		9.46E+00
			635.90		11.32	1.36E+00		1.54E+01
+		SB-126	414.70		83.30	-1.97E+18	1.21E+19	1.27E+19
			666.33		99.60	7.92E+17		2.47E+19
			695.00		99.60	1.71E+18		1.21E+19
			720.50		53.80	-5.41E+17		2.34E+19
+		SN-126	87.57	*	37.00	8.05E+01	2.60E+00	2.60E+00
+	@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26
	@		685.20		35.70	1.00E+26		1.00E+26
	@		783.80		14.70	1.00E+26		1.00E+26
+		I-129	29.78		57.00	-5.23E+00	7.51E-01	7.51E-01
			33.60		13.20	-1.62E+00		2.45E+00

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Analysis Report for 1508002-01

GAS-1302

		Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		I-129	39.58		7.52	-1.71E+01	7.51E-01	4.79E+00
+	@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26
	@		364.48		81.20	1.00E+26		1.00E+26
	@		636.97		7.26	1.00E+26		1.00E+26
	@		722.89		1.80	1.00E+26		1.00E+26
+	@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26
	@		228.16		88.00	1.00E+26		1.00E+26
+		BA-133	81.00		33.00	2.81E-01	1.58E+00	2.04E+00
			302.84		17.80	-2.99E-01		4.79E+00
			356.01		60.00	4.28E-01		1.58E+00
+	@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26
+	@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26
+		CS-134	563.23		8.38	2.30E+00	2.09E+00	2.32E+01
			569.32		15.43	1.70E+00		1.26E+01
			604.70		97.60	3.38E-01		2.09E+00
			795.84		85.40	-2.30E-01		2.91E+00
			801.93		8.73	5.96E-01		2.90E+01
+		CS-135	268.24		16.00	-1.29E+00	4.45E+00	4.45E+00
+	@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41		28.60	1.00E+26		1.00E+26
	@		1678.03		9.54	1.00E+26		1.00E+26
+		CS-136	153.22		7.46	-7.29E+17	1.17E+18	6.56E+18
			163.89		4.61	3.90E+19		1.21E+19
			176.55		13.56	-8.89E+17		3.86E+18
			273.65		12.66	1.48E+18		5.21E+18
			340.57		48.50	-3.71E+17		1.48E+18
			818.50		99.70	-3.40E+17		1.17E+18
			1048.07		79.60	-2.30E+17		1.75E+18
			1235.34		19.70	2.76E+18		3.79E+18
+		CS-137	661.65	*	85.12	8.51E+01	2.67E+00	2.67E+00
+		LA-138	788.74		34.00	1.14E+00	6.26E-01	3.53E+00
			1435.80		66.00	1.03E-01		6.26E-01
+		CE-139	165.85	*	80.35	1.03E+02	4.64E+01	4.64E+01
+		BA-140	162.64		6.70	1.73E+18	1.16E+19	2.72E+19
			304.84		4.50	-1.50E+19		5.00E+19
			423.70		3.20	-3.81E+19		8.88E+19
			437.55		2.00	-1.85E+19		1.47E+20
			537.32		25.00	-3.55E+18		1.16E+19
+		LA-140	328.77		20.50	-6.50E+18	1.32E+18	1.12E+19
			487.03		45.50	-4.21E+17		6.50E+18
			815.85		23.50	-4.80E+18		1.63E+19
			1596.49		95.49	-1.06E+17		1.32E+18
+		CE-141	145.44		48.40	1.26E+06	2.04E+07	2.04E+07
+	@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26
	@		293.26		42.00	1.00E+26		1.00E+26
	@		664.55		5.20	1.00E+26		1.00E+26
+		CE-144	133.54		10.80	-1.19E+01	3.35E+01	3.35E+01
+		PM-144	476.78		42.00	2.70E+00	4.53E+00	1.08E+01

Analysis Report for 1508002-01

GAS-1302

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		PM-144	618.01	98.60	1.71E-01	4.53E+00	4.53E+00
			696.49	99.49	7.17E-01		4.70E+00
+		PM-145	36.85	21.70	-5.71E+00	9.19E-01	1.66E+00
			37.36	39.70	-3.48E+00		9.19E-01
			42.30	15.10	-3.66E+00		2.98E+00
			72.40	2.31	-1.61E+01		2.52E+01
+		PM-146	453.90	39.94	-5.44E-01	3.35E+00	3.35E+00
			735.90	14.01	3.04E+00		1.05E+01
			747.13	13.10	1.30E+00		1.12E+01
+	@	ND-147	91.11	28.90	1.00E+26	1.00E+26	1.00E+26
	@		531.02	13.10	1.00E+26		1.00E+26
+	@	PM-149	285.90	3.10	1.00E+26	1.00E+26	1.00E+26
+		EU-152	121.78	20.50	4.36E+01	2.78E+00	3.73E+00
			244.69	5.40	-2.32E+00		1.45E+01
			344.27	19.13	-1.95E+00		4.62E+00
			778.89	9.20	5.24E-01		1.43E+01
			964.01	10.40	1.53E+01		1.81E+01
			1085.78	7.22	-1.32E+01		2.46E+01
			1112.02	9.60	7.55E+00		1.88E+01
			1407.95	14.94	-1.72E-02		2.78E+00
+		GD-153	97.43	31.30	8.01E-01	1.37E+01	1.37E+01
			103.18	22.20	-3.54E+00		2.00E+01
+		EU-154	123.07	40.50	2.32E+01	2.01E+00	2.01E+00
			723.30	19.70	-6.03E-01		6.61E+00
			873.19	11.50	-4.77E+00		1.46E+01
			996.32	10.30	-5.10E-01		1.78E+01
			1004.76	17.90	1.76E+00		1.03E+01
			1274.45	35.50	1.19E+00		2.47E+00
+		EU-155	86.50	30.90	1.27E+02	3.09E+00	4.19E+00
			105.30	20.70	-5.09E-02		3.09E+00
+		EU-156	811.77	10.40	2.20E+16	3.19E+16	4.45E+16
			1153.47	7.20	2.05E+15		6.56E+16
			1230.71	8.90	-1.84E+15		3.19E+16
+		HO-166M	184.41	72.60	-2.59E-01	8.37E-01	8.37E-01
			280.45	29.60	-5.24E-01		2.43E+00
			410.94	11.10	1.33E+00		8.26E+00
			711.69	54.10	1.53E-01		1.93E+00
+		TM-171	66.72	0.14	-6.16E+04	7.74E+02	7.74E+02
+		HF-172	81.75	4.52	1.63E+00	1.28E+01	2.96E+01
			125.81	11.30	-1.50E+00		1.28E+01
+	@	LU-172	181.53	20.60	1.00E+26	1.00E+26	1.00E+26
	@		810.06	16.63	1.00E+26		1.00E+26
	@		912.12	15.25	1.00E+26		1.00E+26
	@		1093.66	62.50	1.00E+26		1.00E+26
+		LU-173	100.72	5.24	-2.05E+00	1.01E+01	2.60E+01
			272.11	21.20	2.73E+00		1.01E+01
+		HF-175	343.40	84.00	-1.04E+02	2.25E+03	2.25E+03
+		LU-176	88.34	13.30	2.14E+02	7.49E-01	7.12E+00
			201.83	86.00	-3.39E-01		7.49E-01

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LU-176	306.78		94.00	-3.97E-01	7.49E-01	7.88E-01
+	TA-182	67.75		41.20	-3.48E+03	1.43E+02	1.43E+02
		1121.30		34.90	-2.57E+01		4.78E+02
		1189.05		16.23	-2.16E+02		7.46E+02
		1221.41		26.98	-5.67E+01		3.58E+02
		1231.02		11.44	-4.58E+01		7.93E+02
+	IR-192	308.46		29.68	3.30E+02	3.39E+03	3.94E+03
		468.07		48.10	-1.69E+02		3.39E+03
+	HG-203	279.19		77.30	-3.11E+04	1.10E+05	1.10E+05
+	BI-207	569.67		97.72	1.36E-01	1.01E+00	1.01E+00
		1063.62		74.90	3.77E-01		2.16E+00
+	TL-208	583.14		30.22	5.83E-01	7.97E-01	3.25E+00
		860.37		4.48	1.53E+01		3.15E+01
		2614.66		35.85	2.91E-01		7.97E-01
+	BI-210M	262.00		45.00	5.30E-01	1.58E+00	1.58E+00
		300.00		23.00	9.94E-01		3.21E+00
+	PB-210	46.50		4.25	1.33E+01	1.36E+01	1.36E+01
+	PB-211	404.84		2.90	-6.03E+00	3.09E+01	3.09E+01
		831.96		2.90	-1.43E+01		4.41E+01
+	BI-212	727.17		11.80	1.83E+00	9.49E+00	9.49E+00
		1620.62		2.75	3.51E+00		1.49E+01
+	PB-212	238.63		44.60	1.42E+00	1.60E+00	1.60E+00
		300.09		3.41	6.70E+00		2.16E+01
+	BI-214	609.31	*	46.30	1.34E+00	2.15E+00	2.15E+00
		1120.29		15.10	-4.43E-01		9.65E+00
		1764.49		15.80	-5.81E-01		2.38E+00
		2204.22		4.98	1.53E+00		7.44E+00
+	PB-214	295.21		19.19	-7.95E-01	2.21E+00	3.81E+00
		351.92		37.19	8.99E-01		2.21E+00
+	RN-219	401.80		6.50	-2.55E+00	1.37E+01	1.37E+01
+	RA-223	323.87		3.88	7.63E+00	1.97E+01	1.97E+01
+	RA-224	240.98		3.95	1.17E+01	1.81E+01	1.81E+01
+	RA-225	40.00		31.00	-3.90E+16	1.09E+16	1.09E+16
+	RA-226	186.21		3.28	-2.75E+00	1.89E+01	1.89E+01
+	TH-227	50.10		8.40	1.82E+01	6.19E+00	7.48E+00
		236.00		11.50	-1.66E-01		6.19E+00
		256.20		6.30	-6.74E-01		1.12E+01
+	AC-228	338.32		11.40	-1.29E+00	5.64E+00	6.84E+00
		911.07		27.70	2.58E-02		5.64E+00
		969.11		16.60	-1.97E+00		9.59E+00
+	TH-230	48.44		16.90	9.46E+00	3.54E+00	3.54E+00
		62.85		4.60	7.89E+02		2.23E+01
		67.67		0.37	-3.33E+03		1.37E+02
+	PA-231	283.67		1.60	-3.84E+00	3.22E+01	4.52E+01
		302.67		2.30	-2.01E+00		3.22E+01
+	TH-231	25.64		14.70	-1.99E+01	6.60E+00	6.60E+00
		84.21		6.40	1.16E+02		1.31E+01
+	PA-233	311.98		38.60	4.47E+08	1.12E+09	1.12E+09

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PA-234	131.20		20.40	-1.66E+00	2.48E+00	2.48E+00
		733.99		8.80	4.71E+00		1.28E+01
		946.00		12.00	-2.96E+00		1.43E+01
+	PA-234M	1001.03		0.92	1.24E+02	1.72E+02	1.72E+02
+	TH-234	63.29		3.80	3.50E+02	2.28E+01	2.28E+01
+	U-235	143.76		10.50	1.51E+00	5.01E+00	5.01E+00
		163.35		4.70	4.17E+01		1.29E+01
		205.31		4.70	-3.92E-01		1.39E+01
+	NP-237	86.50		12.60	2.31E+02	7.61E+00	7.61E+00
+	@ NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26
	@	228.18		10.70	1.00E+26		1.00E+26
	@	277.60		14.10	1.00E+26		1.00E+26
+	AM-241	59.54	*	35.90	1.34E+02	3.17E+00	3.17E+00
+	AM-243	74.67		66.00	-3.33E-01	8.25E-01	8.25E-01
+	CM-243	209.75		3.29	-3.99E+00	5.41E+00	2.13E+01
		228.14		10.60	2.49E+00		7.06E+00
		277.60		14.00	-1.31E+00		5.41E+00

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59	10.42	2.55E+05	2.55E+05	-8.89E+03	1.26E+05
	NA-22	1274.54	99.94	1.31E+00	1.31E+00	6.34E-01	6.31E-01
@	NA-24	1368.53	99.99	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		2754.09	99.86	1.00E+26		0.00E+00	1.00E+20
	AL-26	1808.65	99.76	3.34E-01	3.34E-01	-1.70E-01	1.48E-01

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	K-40	1460.81		10.67	4.22E+00	4.22E+00	-6.48E-01	1.96E+00
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.52E-01	5.52E-01	-1.34E+01	2.74E-01
		78.34		96.00	6.02E-01		2.29E-02	2.99E-01
	SC-46	889.25		99.98	9.84E+02	9.61E+02	3.91E+01	4.85E+02
		1120.51		99.99	9.61E+02		-4.42E+01	4.72E+02
	V-48	983.52		99.98	9.63E+14	4.20E+14	-5.79E+12	4.75E+14
		1312.10		97.50	4.20E+14		-2.50E+14	2.00E+14
	CR-51	320.08		9.83	2.65E+09	2.65E+09	1.13E+08	1.31E+09
	MN-54	834.83		99.97	7.35E+00	7.35E+00	-3.15E+00	3.62E+00
	CO-56	846.75		99.96	1.34E+03	1.04E+03	2.03E+02	6.62E+02
		1037.75		14.03	1.11E+04		8.47E+02	5.47E+03
		1238.25		67.00	1.20E+03		3.77E+02	5.79E+02
		1771.40		15.51	2.35E+03		-1.84E+03	1.05E+03
		2598.48		16.90	1.04E+03		9.37E+01	3.70E+02
+	CO-57	122.06	*	85.51	7.53E+00	7.53E+00	7.33E+01	3.75E+00
		136.48	*	10.60	4.21E+01		4.29E+01	2.09E+01
	CO-58	810.76		99.40	2.79E+03	2.79E+03	1.08E+03	1.37E+03
	FE-59	1099.22		56.50	5.63E+05	3.16E+05	-1.36E+05	2.77E+05
		1291.56		43.20	3.16E+05		-1.09E+05	1.51E+05
+	CO-60	1173.22	*	100.00	3.54E+00	1.47E+00	1.32E+02	1.75E+00
		1332.49	*	100.00	1.47E+00		1.35E+02	7.15E-01
	ZN-65	1115.52		50.75	2.89E+01	2.89E+01	2.03E+01	1.42E+01
@	GA-67	93.31		35.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		208.95		2.24	1.00E+26		1.00E+26	1.00E+20
@		300.22		16.00	1.00E+26		1.00E+26	1.00E+20
	SE-75	121.11		16.70	3.87E+02	8.55E+01	4.66E+03	1.93E+02
		136.00		59.20	8.55E+01		-1.01E+01	4.25E+01
		264.65		59.80	1.12E+02		-3.08E+01	5.53E+01
		279.53		25.20	2.68E+02		-7.60E+01	1.33E+02
		400.65		11.40	7.24E+02		-3.96E+02	3.58E+02
	RB-82	776.52		13.00	1.62E+10	1.62E+10	1.12E+09	7.96E+09
	RB-83	520.41		46.00	1.13E+03	1.13E+03	6.71E+01	5.55E+02
		529.64		30.30	1.75E+03		8.72E+02	8.62E+02
		552.65		16.40	3.24E+03		1.66E+03	1.60E+03
	KR-85	513.99		0.43	2.54E+02	2.54E+02	3.26E+01	1.25E+02
	SR-85	513.99		99.27	4.27E+03	4.27E+03	5.49E+02	2.11E+03
+	Y-88	898.02	*	93.40	3.37E+02	8.68E+01	3.32E+02	1.67E+02
		1836.01	*	99.38	8.68E+01		3.39E+02	4.01E+01
	NB-93M	16.57		9.43	6.34E+00	6.34E+00	-2.65E+02	3.16E+00
	NB-94	702.63		100.00	1.03E+00	1.03E+00	-2.68E-01	5.08E-01
		871.10		100.00	1.43E+00		-2.52E-01	7.03E-01
	NB-95	765.79		99.81	6.42E+06	6.42E+06	-6.45E+05	3.16E+06
@	NB-95M	235.69		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	ZR-95	724.18		43.70	1.23E+04	1.01E+04	-1.75E+03	6.07E+03
		756.72		55.30	1.01E+04		-1.89E+02	4.96E+03
@	MO-99	181.06		6.20	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		739.58		12.80	1.00E+26		1.00E+26	1.00E+20
@		778.00		4.50	1.00E+26		1.00E+26	1.00E+20
	RU-103	497.08		89.00	1.10E+06	1.10E+06	3.86E+04	5.41E+05
	RU-106	621.84		9.80	4.46E+01	4.46E+01	-2.19E+01	2.20E+01
	AG-108M	433.93		89.90	1.08E+00	1.08E+00	-4.92E-01	5.32E-01
		614.37		90.40	1.13E+00		-2.00E-02	5.55E-01

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-108M	722.95		90.50	1.23E+00	1.08E+00	-1.12E-01	6.05E-01
+	CD-109	88.03	*	3.72	8.35E+01	8.35E+01	2.59E+03	4.16E+01
	AG-110M	657.75		93.14	2.35E+01	1.49E+01	1.97E+02	1.17E+01
		677.61		10.53	8.46E+01		7.43E+00	4.16E+01
		706.67		16.46	5.43E+01		-3.77E+01	2.67E+01
		763.93		21.98	4.62E+01		-1.24E+01	2.27E+01
		884.67		71.63	1.82E+01		1.57E+00	8.97E+00
		1384.27		23.94	1.49E+01		0.00E+00	6.87E+00
	CD-113M	263.70		0.02	3.42E+03	3.42E+03	-7.33E+02	1.69E+03
+	SN-113	255.12		1.93	4.17E+03	1.71E+02	1.94E+03	2.07E+03
		391.69	*	64.90	1.71E+02		1.80E+02	8.49E+01
	TE123M	159.00		84.10	6.12E+01	6.12E+01	-7.51E-01	3.04E+01
	SB-124	602.71		97.87	8.52E+03	5.44E+03	-5.32E+02	4.20E+03
		645.85		7.26	1.20E+05		-4.07E+04	5.94E+04
		722.78		11.10	8.37E+04		9.62E+02	4.12E+04
		1691.02		49.00	5.44E+03		-1.95E+03	2.40E+03
	I-125	35.49		6.49	4.35E+04	4.35E+04	-1.02E+05	2.16E+04
	SB-125	176.33		6.89	1.42E+01	5.55E+00	-3.27E+00	7.05E+00
		427.89		29.33	5.55E+00		1.83E+00	2.75E+00
		463.38		10.35	1.74E+01		2.99E+00	8.61E+00
		600.56		17.80	9.46E+00		3.95E+00	4.66E+00
		635.90		11.32	1.54E+01		1.36E+00	7.60E+00
	SB-126	414.70		83.30	1.27E+19	1.21E+19	-1.97E+18	6.28E+18
		666.33		99.60	2.47E+19		7.92E+17	1.23E+19
		695.00		99.60	1.21E+19		1.71E+18	5.97E+18
		720.50		53.80	2.34E+19		-5.41E+17	1.15E+19
+	SN-126	87.57	*	37.00	2.60E+00	2.60E+00	8.05E+01	1.30E+00
@	SB-127	473.00		25.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		685.20		35.70	1.00E+26		1.00E+26	1.00E+20
@		783.80		14.70	1.00E+26		1.00E+26	1.00E+20
	I-129	29.78		57.00	7.51E-01	7.51E-01	-5.23E+00	3.74E-01
		33.60		13.20	2.45E+00		-1.62E+00	1.22E+00
		39.58		7.52	4.79E+00		-1.71E+01	2.38E+00
@	I-131	284.30		6.05	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		364.48		81.20	1.00E+26		1.00E+26	1.00E+20
@		636.97		7.26	1.00E+26		1.00E+26	1.00E+20
@		722.89		1.80	1.00E+26		1.00E+26	1.00E+20
@	TE-132	49.72		13.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.16		88.00	1.00E+26		1.00E+26	1.00E+20
	BA-133	81.00		33.00	2.04E+00	1.58E+00	2.81E-01	1.01E+00
		302.84		17.80	4.79E+00		-2.99E-01	2.37E+00
		356.01		60.00	1.58E+00		4.28E-01	7.82E-01
@	I-133	529.87		86.30	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	XE-133	81.00		38.00	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	CS-134	563.23		8.38	2.32E+01	2.09E+00	2.30E+00	1.15E+01
		569.32		15.43	1.26E+01		1.70E+00	6.23E+00
		604.70		97.60	2.09E+00		3.38E-01	1.03E+00
		795.84		85.40	2.91E+00		-2.30E-01	1.43E+00
		801.93		8.73	2.90E+01		5.96E-01	1.43E+01
	CS-135	268.24		16.00	4.45E+00	4.45E+00	-1.29E+00	2.20E+00
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20

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Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-136	153.22		7.46	6.56E+18	1.17E+18	-7.29E+17	3.26E+18
		163.89		4.61	1.21E+19		3.90E+19	5.99E+18
		176.55		13.56	3.86E+18		-8.89E+17	1.92E+18
		273.65		12.66	5.21E+18		1.48E+18	2.58E+18
		340.57		48.50	1.48E+18		-3.71E+17	7.33E+17
		818.50		99.70	1.17E+18		-3.40E+17	5.77E+17
		1048.07		79.60	1.75E+18		-2.30E+17	8.60E+17
		1235.34		19.70	3.79E+18		2.76E+18	1.83E+18
+	CS-137	661.65	*	85.12	2.67E+00	2.67E+00	8.51E+01	1.32E+00
	LA-138	788.74		34.00	3.53E+00	6.26E-01	1.14E+00	1.74E+00
		1435.80		66.00	6.26E-01		1.03E-01	2.88E-01
+	CE-139	165.85	*	80.35	4.64E+01	4.64E+01	1.03E+02	2.31E+01
	BA-140	162.64		6.70	2.72E+19	1.16E+19	1.73E+18	1.35E+19
		304.84		4.50	5.00E+19		-1.50E+19	2.47E+19
		423.70		3.20	8.88E+19		-3.81E+19	4.39E+19
		437.55		2.00	1.47E+20		-1.85E+19	7.29E+19
		537.32		25.00	1.16E+19		-3.55E+18	5.72E+18
	LA-140	328.77		20.50	1.12E+19	1.32E+18	-6.50E+18	5.55E+18
		487.03		45.50	6.50E+18		-4.21E+17	3.21E+18
		815.85		23.50	1.63E+19		-4.80E+18	8.02E+18
		1596.49		95.49	1.32E+18		-1.06E+17	6.03E+17
	CE-141	145.44		48.40	2.04E+07	2.04E+07	1.26E+06	1.01E+07
@	CE-143	57.36		11.80	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		293.26		42.00	1.00E+26		1.00E+26	1.00E+20
@		664.55		5.20	1.00E+26		1.00E+26	1.00E+20
	CE-144	133.54		10.80	3.35E+01	3.35E+01	-1.19E+01	1.66E+01
	PM-144	476.78		42.00	1.08E+01	4.53E+00	2.70E+00	5.35E+00
		618.01		98.60	4.53E+00		1.71E-01	2.23E+00
		696.49		99.49	4.70E+00		7.17E-01	2.31E+00
	PM-145	36.85		21.70	1.66E+00	9.19E-01	-5.71E+00	8.25E-01
		37.36		39.70	9.19E-01		-3.48E+00	4.57E-01
		42.30		15.10	2.98E+00		-3.66E+00	1.48E+00
		72.40		2.31	2.52E+01		-1.61E+01	1.25E+01
	PM-146	453.90		39.94	3.35E+00	3.35E+00	-5.44E-01	1.66E+00
		735.90		14.01	1.05E+01		3.04E+00	5.17E+00
		747.13		13.10	1.12E+01		1.30E+00	5.50E+00
@	ND-147	91.11		28.90	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		531.02		13.10	1.00E+26		1.00E+26	1.00E+20
@	PM-149	285.90		3.10	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	EU-152	121.78		20.50	3.73E+00	2.78E+00	4.36E+01	1.86E+00
		244.69		5.40	1.45E+01		-2.32E+00	7.20E+00
		344.27		19.13	4.62E+00		-1.95E+00	2.29E+00
		778.89		9.20	1.43E+01		5.24E-01	7.02E+00
		964.01		10.40	1.81E+01		1.53E+01	8.91E+00
		1085.78		7.22	2.46E+01		-1.32E+01	1.21E+01
		1112.02		9.60	1.88E+01		7.55E+00	9.25E+00
		1407.95		14.94	2.78E+00		-1.72E-02	1.27E+00
	GD-153	97.43		31.30	1.37E+01	1.37E+01	8.01E-01	6.79E+00
		103.18		22.20	2.00E+01		-3.54E+00	9.92E+00
	EU-154	123.07		40.50	2.01E+00	2.01E+00	2.32E+01	1.00E+00
		723.30		19.70	6.61E+00		-6.03E-01	3.25E+00
		873.19		11.50	1.46E+01		-4.77E+00	7.20E+00
		996.32		10.30	1.78E+01		-5.10E-01	8.74E+00

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1004.76		17.90	1.03E+01	2.01E+00	1.76E+00	5.08E+00
		1274.45		35.50	2.47E+00		1.19E+00	1.19E+00
	EU-155	86.50		30.90	4.19E+00	3.09E+00	1.27E+02	2.09E+00
		105.30		20.70	3.09E+00		-5.09E-02	1.53E+00
	EU-156	811.77		10.40	4.45E+16	3.19E+16	2.20E+16	2.19E+16
		1153.47		7.20	6.56E+16		2.05E+15	3.21E+16
		1230.71		8.90	3.19E+16		-1.84E+15	1.54E+16
	HO-166M	184.41		72.60	8.37E-01	8.37E-01	-2.59E-01	4.15E-01
		280.45		29.60	2.43E+00		-5.24E-01	1.20E+00
		410.94		11.10	8.26E+00		1.33E+00	4.08E+00
		711.69		54.10	1.93E+00		1.53E-01	9.49E-01
	TM-171	66.72		0.14	7.74E+02	7.74E+02	-6.16E+04	3.85E+02
	HF-172	81.75		4.52	2.96E+01	1.28E+01	1.63E+00	1.47E+01
		125.81		11.30	1.28E+01		-1.50E+00	6.38E+00
@	LU-172	181.53		20.60	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		810.06		16.63	1.00E+26		1.00E+26	1.00E+20
@		912.12		15.25	1.00E+26		1.00E+26	1.00E+20
@		1093.66		62.50	1.00E+26		1.00E+26	1.00E+20
	LU-173	100.72		5.24	2.60E+01	1.01E+01	-2.05E+00	1.29E+01
		272.11		21.20	1.01E+01		2.73E+00	4.99E+00
	HF-175	343.40		84.00	2.25E+03	2.25E+03	-1.04E+02	1.11E+03
	LU-176	88.34		13.30	7.12E+00	7.49E-01	2.14E+02	3.55E+00
		201.83		86.00	7.49E-01		-3.39E-01	3.72E-01
		306.78		94.00	7.88E-01		-3.97E-01	3.90E-01
	TA-182	67.75		41.20	1.43E+02	1.43E+02	-3.48E+03	7.14E+01
		1121.30		34.90	4.78E+02		-2.57E+01	2.35E+02
		1189.05		16.23	7.46E+02		-2.16E+02	3.63E+02
		1221.41		26.98	3.58E+02		-5.67E+01	1.73E+02
		1231.02		11.44	7.93E+02		-4.58E+01	3.82E+02
	IR-192	308.46		29.68	3.94E+03	3.39E+03	3.30E+02	1.95E+03
		468.07		48.10	3.39E+03		-1.69E+02	1.68E+03
	HG-203	279.19		77.30	1.10E+05	1.10E+05	-3.11E+04	5.42E+04
	BI-207	569.67		97.72	1.01E+00	1.01E+00	1.36E-01	5.00E-01
		1063.62		74.90	2.16E+00		3.77E-01	1.06E+00
	TL-208	583.14		30.22	3.25E+00	7.97E-01	5.83E-01	1.60E+00
		860.37		4.48	3.15E+01		1.53E+01	1.55E+01
		2614.66		35.85	7.97E-01		2.91E-01	3.27E-01
	BI-210M	262.00		45.00	1.58E+00	1.58E+00	5.30E-01	7.84E-01
		300.00		23.00	3.21E+00		9.94E-01	1.59E+00
	PB-210	46.50		4.25	1.36E+01	1.36E+01	1.33E+01	6.77E+00
	PB-211	404.84		2.90	3.09E+01	3.09E+01	-6.03E+00	1.53E+01
		831.96		2.90	4.41E+01		-1.43E+01	2.17E+01
	BI-212	727.17		11.80	9.49E+00	9.49E+00	1.83E+00	4.67E+00
		1620.62		2.75	1.49E+01		3.51E+00	6.82E+00
	PB-212	238.63		44.60	1.60E+00	1.60E+00	1.42E+00	7.96E-01
		300.09		3.41	2.16E+01		6.70E+00	1.07E+01
+	BI-214	609.31	*	46.30	2.15E+00	2.15E+00	1.34E+00	1.06E+00
		1120.29		15.10	9.65E+00		-4.43E-01	4.74E+00
		1764.49		15.80	2.38E+00		-5.81E-01	1.07E+00
		2204.22		4.98	7.44E+00		1.53E+00	3.26E+00
	PB-214	295.21		19.19	3.81E+00	2.21E+00	-7.95E-01	1.89E+00
		351.92		37.19	2.21E+00		8.99E-01	1.09E+00
	RN-219	401.80		6.50	1.37E+01	1.37E+01	-2.55E+00	6.76E+00

Analysis Report for 1508002-01

GAS-1302

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	RA-223	323.87		3.88	1.97E+01	1.97E+01	7.63E+00	9.77E+00
	RA-224	240.98		3.95	1.81E+01	1.81E+01	1.17E+01	8.96E+00
	RA-225	40.00		31.00	1.09E+16	1.09E+16	-3.90E+16	5.43E+15
	RA-226	186.21		3.28	1.89E+01	1.89E+01	-2.75E+00	9.37E+00
	TH-227	50.10		8.40	7.48E+00	6.19E+00	1.82E+01	3.73E+00
		236.00		11.50	6.19E+00		-1.66E-01	3.07E+00
		256.20		6.30	1.12E+01		-6.74E-01	5.55E+00
	AC-228	338.32		11.40	6.84E+00	5.64E+00	-1.29E+00	3.38E+00
		911.07		27.70	5.64E+00		2.58E-02	2.78E+00
		969.11		16.60	9.59E+00		-1.97E+00	4.73E+00
	TH-230	48.44		16.90	3.54E+00	3.54E+00	9.46E+00	1.76E+00
		62.85		4.60	2.23E+01		7.89E+02	1.11E+01
		67.67		0.37	1.37E+02		-3.33E+03	6.83E+01
	PA-231	283.67		1.60	4.52E+01	3.22E+01	-3.84E+00	2.24E+01
		302.67		2.30	3.22E+01		-2.01E+00	1.59E+01
	TH-231	25.64		14.70	6.60E+00	6.60E+00	-1.99E+01	3.29E+00
		84.21		6.40	1.31E+01		1.16E+02	6.55E+00
	PA-233	311.98		38.60	1.12E+09	1.12E+09	4.47E+08	5.54E+08
	PA-234	131.20		20.40	2.48E+00	2.48E+00	-1.66E+00	1.23E+00
		733.99		8.80	1.28E+01		4.71E+00	6.31E+00
		946.00		12.00	1.43E+01		-2.96E+00	7.08E+00
	PA-234M	1001.03		0.92	1.72E+02	1.72E+02	1.24E+02	8.46E+01
	TH-234	63.29		3.80	2.28E+01	2.28E+01	3.50E+02	1.14E+01
	U-235	143.76		10.50	5.01E+00	5.01E+00	1.51E+00	2.48E+00
		163.35		4.70	1.29E+01		4.17E+01	6.40E+00
		205.31		4.70	1.39E+01		-3.92E-01	6.90E+00
	NP-237	86.50		12.60	7.61E+00	7.61E+00	2.31E+02	3.80E+00
@	NP-239	106.10		22.70	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		228.18		10.70	1.00E+26		1.00E+26	1.00E+20
@		277.60		14.10	1.00E+26		1.00E+26	1.00E+20
+	AM-241	59.54	*	35.90	3.17E+00	3.17E+00	1.34E+02	1.58E+00
	AM-243	74.67		66.00	8.25E-01	8.25E-01	-3.33E-01	4.11E-01
	CM-243	209.75		3.29	2.13E+01	5.41E+00	-3.99E+00	1.06E+01
		228.14		10.60	7.06E+00		2.49E+00	3.50E+00
		277.60		14.00	5.41E+00		-1.31E+00	2.68E+00

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1508002-01

GAS-1302

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: GAS-1302

Elapsed Live time: 1800
Elapsed Real Time: 1823

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	10	527	1552
17:	1735	2004	5418	18571	32173	25115	12797	11109
25:	7580	2615	955	731	856	1096	1379	1266
33:	1012	915	956	1041	1000	1078	1082	1192
41:	1440	1499	1612	1744	1956	2259	2828	3213
49:	3484	3643	3668	3685	3818	3915	4206	4755
57:	8904	20315	22552	10715	2509	1295	1333	1461
65:	1515	1680	1741	1728	1662	1684	1599	1665
73:	1621	1638	1646	1702	1722	1739	1690	1672
81:	1734	1777	1894	1879	2620	6610	11702	9299
89:	3086	988	846	837	870	797	811	847
97:	836	882	835	845	842	827	805	829
105:	868	826	871	850	862	847	819	836
113:	863	777	847	896	829	876	1011	1855
121:	3117	2712	1319	751	704	705	684	731
129:	701	696	699	787	687	765	907	952
137:	793	660	673	690	693	691	673	667
145:	655	689	655	634	645	664	624	682
153:	613	601	636	622	638	600	672	605
161:	614	644	712	843	984	894	698	590
169:	625	549	553	648	565	622	559	568
177:	565	555	621	555	594	583	642	587
185:	607	646	657	637	680	598	645	619
193:	624	605	645	600	624	616	593	574
201:	619	594	583	594	552	605	583	635
209:	586	613	614	563	584	624	625	647
217:	635	644	597	557	617	628	591	574
225:	621	613	584	583	594	574	555	555
233:	527	579	550	569	562	550	549	567
241:	527	508	491	527	476	501	485	497
249:	449	473	531	505	471	490	481	446
257:	482	470	453	453	473	483	444	436
265:	460	435	410	454	440	455	460	431
273:	452	445	423	416	413	440	415	417
281:	391	423	412	419	402	416	411	421
289:	413	389	421	390	362	404	397	403
297:	356	397	392	423	388	359	370	371
305:	377	367	372	378	402	375	399	376
313:	367	393	383	361	365	383	341	373
321:	382	355	385	367	364	350	341	336
329:	343	327	344	339	374	351	336	331
337:	339	368	363	358	349	315	363	323
345:	364	356	336	347	349	357	371	364
353:	341	359	367	362	315	338	332	356
361:	326	323	342	311	325	282	309	316

369:	334	315	341	300	306	326	343	333

Sample Title: GAS-1302

Channel								
377:	366	370	299	327	315	323	295	327
385:	326	333	331	313	317	362	420	406
393:	326	328	317	288	342	354	317	309
401:	299	310	334	303	340	360	319	347
409:	336	312	323	323	309	328	316	320
417:	332	346	323	351	293	305	326	316
425:	323	335	338	326	338	349	300	307
433:	319	335	322	311	317	317	360	332
441:	332	331	342	349	290	359	351	324
449:	345	368	306	320	334	307	330	373
457:	352	313	348	358	340	335	361	325
465:	331	359	340	321	350	330	316	319
473:	337	329	308	290	301	274	275	284
481:	258	261	284	287	263	261	241	253
489:	273	288	256	295	251	269	247	242
497:	240	246	255	238	248	182	240	245
505:	228	240	257	230	233	243	260	260
513:	237	209	228	220	202	212	243	204
521:	197	247	221	201	214	199	219	221
529:	223	232	214	232	212	205	182	194
537:	242	205	224	219	211	213	224	194
545:	202	184	198	206	196	200	193	224
553:	189	209	199	204	184	199	180	161
561:	195	191	189	185	206	187	198	178
569:	177	178	183	187	169	173	174	184
577:	150	204	196	186	186	211	195	199
585:	164	181	185	205	177	188	153	182
593:	181	163	191	162	173	169	166	178
601:	200	181	185	199	181	157	153	182
609:	221	193	193	170	179	175	181	172
617:	164	186	157	183	180	170	180	161
625:	162	189	180	189	166	169	169	171
633:	177	176	158	181	184	152	177	173
641:	152	173	171	170	176	172	183	162
649:	189	195	190	181	158	180	191	179
657:	182	221	716	2448	4454	3695	1339	281
665:	159	151	156	164	148	152	136	139
673:	144	142	137	132	157	160	146	152
681:	162	148	144	157	176	160	146	158
689:	146	146	142	133	150	129	144	160
697:	177	161	169	130	162	152	135	120
705:	136	131	141	133	148	135	159	140
713:	159	133	141	163	129	164	157	134
721:	147	150	165	170	169	141	158	144
729:	143	171	168	141	160	149	166	147
737:	142	180	154	148	157	142	143	146
745:	150	141	165	157	137	169	140	141
753:	157	141	143	161	146	165	155	139
761:	151	147	156	160	132	154	194	133
769:	162	162	151	164	152	141	170	149
777:	134	154	162	163	145	158	143	154
785:	151	157	160	150	162	148	157	158
793:	151	151	145	143	157	170	154	155

801:	159	158	182	145	147	153	177	166

Sample Title: GAS-1302

Channel								
809:	152	172	160	175	156	180	146	169
817:	158	153	157	175	149	188	178	179
825:	167	150	167	168	156	162	170	133
833:	165	150	177	153	178	156	174	162
841:	184	153	160	196	174	147	178	169
849:	175	168	162	167	150	162	165	190
857:	175	173	179	169	174	184	197	198
865:	188	163	196	193	168	186	187	189
873:	175	185	153	177	186	197	167	195
881:	193	176	187	182	189	180	192	201
889:	182	185	200	192	193	187	207	194
897:	263	295	217	194	207	185	193	190
905:	197	196	204	212	172	193	218	203
913:	174	204	218	201	201	210	193	166
921:	189	241	212	192	187	185	214	219
929:	227	199	225	227	211	207	236	191
937:	204	198	245	231	219	206	232	214
945:	220	228	234	242	214	243	228	220
953:	242	216	212	234	220	201	193	228
961:	209	228	211	221	216	192	194	171
969:	182	165	183	181	172	171	153	170
977:	175	158	155	173	180	149	167	192
985:	161	145	147	159	157	164	160	151
993:	186	168	163	147	173	164	168	153
1001:	174	160	168	195	173	137	154	163
1009:	148	157	159	145	156	173	169	165
1017:	155	154	151	155	172	141	170	149
1025:	143	165	159	144	140	152	135	151
1033:	160	153	151	145	150	159	168	166
1041:	129	155	168	147	140	134	138	123
1049:	140	148	148	175	155	132	140	138
1057:	122	156	151	145	155	155	147	137
1065:	146	138	131	139	155	138	119	148
1073:	144	161	140	145	128	149	152	153
1081:	142	139	130	138	167	140	156	159
1089:	156	145	166	169	162	153	170	126
1097:	165	131	156	153	141	142	142	134
1105:	145	155	153	161	157	135	155	154
1113:	136	127	148	137	136	112	136	111
1121:	106	99	102	104	104	110	93	84
1129:	89	98	82	81	80	97	98	99
1137:	102	91	107	97	74	83	91	96
1145:	62	75	78	95	104	91	92	79
1153:	88	83	81	83	79	87	75	69
1161:	71	77	79	90	102	73	83	76
1169:	75	189	727	2347	3436	2652	991	162
1177:	60	60	57	69	59	59	57	63
1185:	45	49	56	51	63	54	50	46
1193:	55	63	50	43	42	53	48	55
1201:	45	48	37	40	24	42	32	49
1209:	40	37	33	37	42	41	38	37
1217:	31	35	30	36	35	30	29	29
1225:	25	25	32	27	20	22	18	29

1233:	32	28	34	35	36	28	24	24

Sample Title: GAS-1302

Channel								
1241:	23	22	30	28	17	18	30	19
1249:	27	32	19	25	25	16	17	19
1257:	28	14	24	18	19	22	19	15
1265:	14	18	24	10	22	25	25	25
1273:	14	20	30	20	24	20	22	15
1281:	20	17	26	20	19	18	21	20
1289:	18	14	17	27	17	22	15	25
1297:	19	26	19	11	15	20	22	17
1305:	24	21	15	9	17	19	27	9
1313:	16	20	11	17	14	30	16	20
1321:	15	20	22	25	19	17	24	19
1329:	58	374	1479	2869	2753	1356	293	41
1337:	15	11	11	8	7	5	6	8
1345:	5	2	14	9	7	3	5	5
1353:	7	6	4	2	5	7	8	6
1361:	2	4	8	7	6	12	3	6
1369:	7	6	7	9	7	1	0	3
1377:	4	8	4	5	4	3	6	10
1385:	4	7	4	5	4	4	8	5
1393:	5	10	5	8	4	6	4	7
1401:	1	6	9	5	5	3	8	2
1409:	4	6	2	4	6	2	3	8
1417:	7	7	9	5	4	3	3	1
1425:	1	3	6	4	1	6	4	4
1433:	7	6	5	1	8	6	5	5
1441:	5	7	4	4	4	3	4	7
1449:	4	3	0	9	2	7	7	10
1457:	3	5	4	5	10	9	7	4
1465:	8	5	5	5	1	4	4	7
1473:	5	5	2	8	3	4	5	4
1481:	5	4	6	2	9	5	3	2
1489:	5	2	2	9	7	4	3	5
1497:	6	6	7	6	4	6	4	6
1505:	6	3	9	3	7	5	9	7
1513:	6	7	2	3	7	6	5	2
1521:	3	4	4	7	6	1	5	4
1529:	5	4	5	5	2	3	3	6
1537:	6	3	3	3	5	6	3	4
1545:	8	2	4	9	6	5	6	3
1553:	5	5	2	2	4	3	8	4
1561:	3	4	4	5	3	5	5	3
1569:	2	4	5	1	4	3	9	6
1577:	1	4	5	3	4	6	8	7
1585:	4	3	6	8	4	6	4	6
1593:	6	4	1	3	6	4	8	4
1601:	3	2	3	6	7	7	4	1
1609:	6	2	4	3	3	1	5	5
1617:	3	6	2	6	5	3	1	6
1625:	5	2	2	5	5	9	4	5
1633:	3	4	3	2	2	1	5	4
1641:	4	5	2	2	3	3	5	4
1649:	2	5	3	0	7	5	6	3
1657:	4	2	3	1	2	3	4	2

1665:	2	5	2	6	1	6	1	3

Sample Title: GAS-1302

Channel								
1673:	5	3	4	3	0	3	1	2
1681:	4	0	5	5	2	5	4	1
1689:	1	3	2	2	2	3	1	2
1697:	3	2	3	1	1	2	7	4
1705:	5	2	1	5	7	1	2	2
1713:	3	2	3	5	1	2	2	4
1721:	6	4	2	0	2	1	6	0
1729:	2	0	5	4	2	3	0	2
1737:	2	4	1	1	2	2	1	1
1745:	2	0	1	1	2	3	3	4
1753:	0	2	1	1	3	0	3	1
1761:	2	4	1	4	5	3	1	1
1769:	4	0	4	4	3	3	3	1
1777:	0	4	4	4	1	2	6	3
1785:	2	1	6	0	1	2	3	1
1793:	2	0	0	1	2	1	2	1
1801:	2	1	6	3	0	4	3	2
1809:	1	1	3	0	0	2	4	2
1817:	2	1	3	1	6	5	2	1
1825:	2	1	1	1	1	3	4	0
1833:	5	10	27	38	40	19	7	1
1841:	1	2	0	3	3	1	2	2
1849:	0	3	4	1	2	0	3	1
1857:	1	3	0	6	4	2	0	4
1865:	3	1	1	2	3	0	0	1
1873:	4	2	1	3	2	3	5	0
1881:	2	2	2	3	1	3	1	3
1889:	2	2	2	5	1	2	2	0
1897:	0	1	2	3	1	3	4	2
1905:	2	3	1	2	3	1	2	2
1913:	0	0	0	3	3	1	1	1
1921:	1	2	2	2	3	1	2	1
1929:	2	2	1	1	2	0	1	3
1937:	0	1	3	0	2	1	3	2
1945:	1	2	2	5	1	0	0	2
1953:	2	1	0	2	1	2	2	0
1961:	2	3	2	1	3	1	3	1
1969:	4	0	4	0	4	5	2	3
1977:	1	1	1	3	3	1	1	3
1985:	0	2	1	0	4	4	2	2
1993:	2	1	2	2	5	2	1	1
2001:	2	1	1	3	1	1	1	0
2009:	0	0	5	3	3	4	3	2
2017:	0	3	2	2	1	0	3	1
2025:	1	0	0	2	2	3	0	4
2033:	0	1	0	4	0	0	0	0
2041:	1	3	2	0	0	1	3	2
2049:	1	2	1	3	1	2	1	0
2057:	3	2	2	0	2	0	2	0
2065:	0	1	1	0	0	1	3	1
2073:	1	1	3	2	0	2	4	1
2081:	1	2	2	0	1	1	2	0
2089:	0	1	0	0	4	2	0	1

2097:	2	0	2	2	1	0	0	0

Sample Title: GAS-1302

Channel								
2105:	3	1	0	0	1	3	1	0
2113:	1	5	2	1	2	1	0	2
2121:	0	0	1	0	0	0	2	1
2129:	1	0	0	0	1	2	1	1
2137:	1	1	0	1	0	1	0	0
2145:	2	2	0	0	1	1	2	1
2153:	1	0	0	2	6	1	0	2
2161:	2	1	1	3	1	1	1	0
2169:	2	1	0	2	0	2	0	2
2177:	3	1	1	4	2	3	3	0
2185:	3	1	1	1	2	0	1	3
2193:	1	1	0	0	1	0	3	1
2201:	2	2	1	3	2	2	2	0
2209:	1	1	1	1	1	2	2	2
2217:	0	1	3	1	1	2	0	0
2225:	1	0	1	1	2	0	1	1
2233:	1	2	1	1	1	2	1	0
2241:	1	1	1	2	2	1	0	0
2249:	1	3	2	0	0	0	0	2
2257:	2	1	1	1	2	2	1	1
2265:	1	1	0	2	2	2	3	2
2273:	3	1	0	0	0	2	2	0
2281:	2	2	1	0	3	2	0	0
2289:	2	2	2	3	4	0	1	2
2297:	0	0	2	0	2	3	1	1
2305:	0	3	3	1	0	1	1	0
2313:	1	0	0	0	0	0	3	3
2321:	1	0	0	1	0	1	0	0
2329:	0	1	3	1	1	1	0	2
2337:	2	0	0	1	2	0	0	0
2345:	0	1	1	1	0	0	0	2
2353:	1	0	1	2	0	2	0	1
2361:	0	1	1	0	1	0	1	0
2369:	0	0	1	0	0	0	0	0
2377:	1	0	0	0	0	1	0	0
2385:	0	0	0	0	0	0	1	1
2393:	0	0	0	0	1	0	0	0
2401:	0	0	0	1	0	0	0	0
2409:	0	0	0	0	0	0	1	0
2417:	1	0	0	0	0	0	1	0
2425:	1	0	1	0	1	1	0	1
2433:	0	0	0	0	0	0	0	1
2441:	0	0	0	0	0	0	0	1
2449:	0	0	0	0	0	0	1	1
2457:	0	1	1	0	1	0	0	1
2465:	1	0	0	0	0	0	0	0
2473:	0	1	0	0	0	0	0	1
2481:	0	0	0	1	1	0	0	0
2489:	1	0	0	0	0	1	0	1
2497:	0	0	0	0	0	1	1	5
2505:	4	8	9	16	2	0	0	0
2513:	0	0	0	0	0	2	0	0
2521:	0	0	0	0	0	0	0	0

2529:	0	0	0	0	0	0	0	1

Sample Title: GAS-1302

Channel								
2537:	0	0	0	0	0	0	0	0
2545:	1	0	1	0	0	0	0	0
2553:	0	0	0	1	0	0	0	0
2561:	0	0	0	0	1	0	0	0
2569:	0	0	0	0	0	0	0	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	0	0	0	0	0	0
2593:	0	0	0	0	0	0	1	0
2601:	0	0	0	1	0	1	0	0
2609:	1	0	0	1	0	2	3	0
2617:	1	0	0	0	0	0	0	0
2625:	0	0	0	0	1	1	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	1	0	0	1	0	0
2657:	0	0	1	0	1	0	0	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	1	0	0	0	0	0
2681:	0	1	0	0	0	0	0	0
2689:	1	1	0	1	0	0	0	0
2697:	1	0	0	0	0	0	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	1	0	0
2721:	0	0	0	0	0	1	1	0
2729:	0	0	0	0	1	0	1	0
2737:	0	0	0	0	0	0	0	0
2745:	0	2	0	0	0	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	1	0	0	0	0	0	1	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	1	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	1	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	1	0	0
2825:	0	0	0	0	1	0	0	0
2833:	0	0	0	0	0	1	1	0
2841:	0	0	0	0	0	1	0	0
2849:	0	0	1	0	0	0	0	0
2857:	0	0	0	1	0	0	0	0
2865:	0	0	0	1	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	0	0	0	0
2897:	0	0	0	0	0	0	1	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	1	0	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	1	0	0	0	0	1	0	0
2945:	0	1	0	0	0	0	0	0
2953:	0	0	0	0	0	1	0	0

2961:	1	1	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	0	1	0	0
3025:	0	0	0	0	1	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	1
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	0	0	1	1
3073:	0	1	0	0	0	0	0	0
3081:	0	1	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	1	2	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	2	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	1
3193:	0	0	0	0	1	0	0	0
3201:	0	0	0	1	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	1	0	0	0	0
3241:	0	1	1	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	1
3265:	0	1	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	1	0	0
3289:	0	0	0	0	0	0	1	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	1	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	1
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: GAS-1302

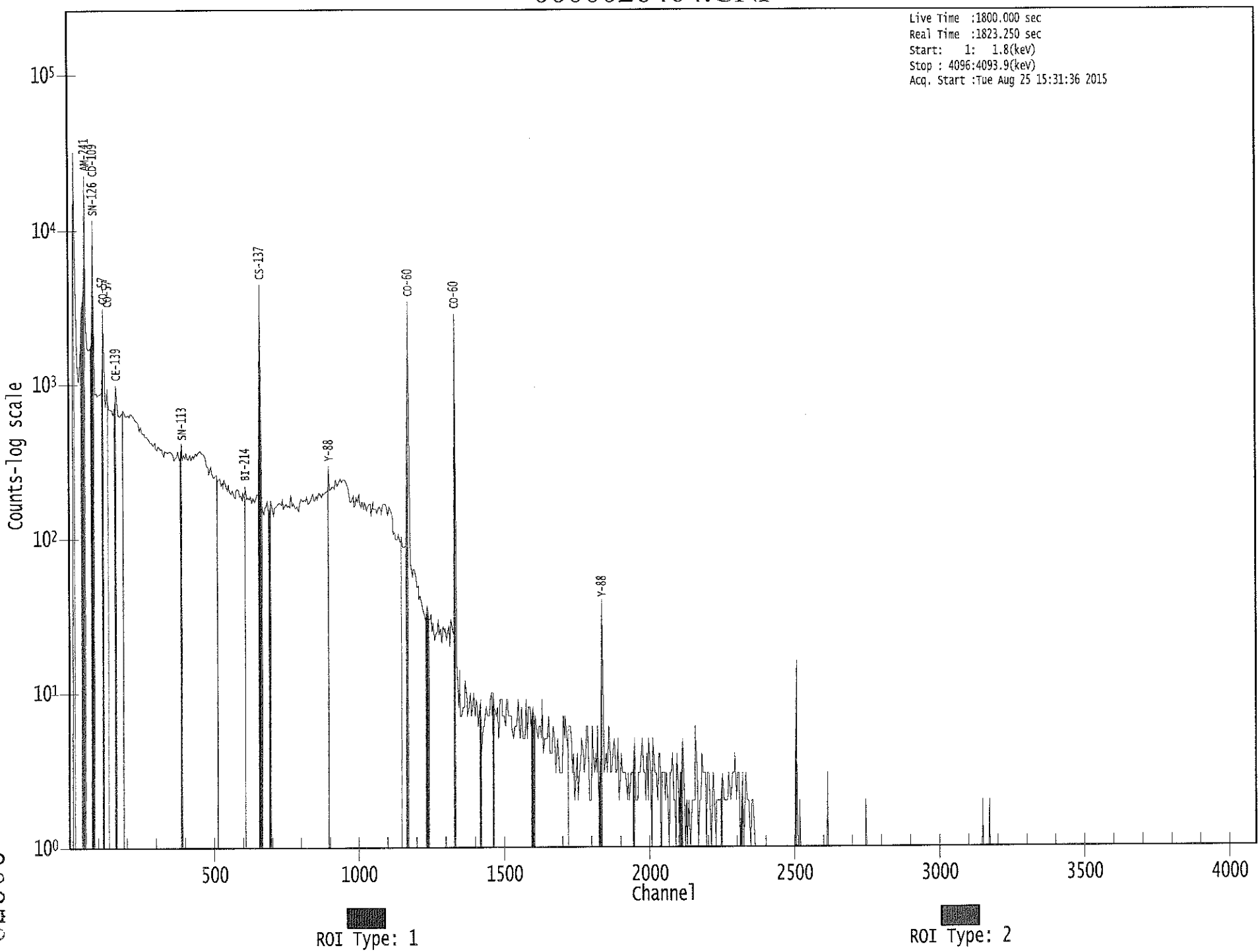
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	1	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	1	1
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	1
3473:	0	0	0	0	0	0	1	0
3481:	0	0	0	0	0	1	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	1	0	1
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	1	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	1	0	0	0	0	0
3617:	0	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	0	0	0	0	0
3649:	1	0	0	1	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	1	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	1
3713:	0	1	0	0	0	0	0	1
3721:	0	0	0	0	0	0	0	1
3729:	0	0	0	1	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	0	0	0	0	0	1	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: GAS-1302

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	1	1	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	1	0	0	0	0
3913:	1	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	1	0	0	1	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	1
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	1	0	0	1
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026404.CNF



00273

Apex-Gamma

Analysis Report for 1508002-02
BLANK

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-02
Sample Description	: BLANK
Sample Type	: SOIL
Sample Size	: 7.834E+02 grams
Facility	: Countroom
Sample Taken On	: 8/25/2015 10:33:39AM
Acquisition Started	: 8/25/2015 5:19:48PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE4
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 15 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 11/8/2014
Efficiency Calibration Description	:
Sample Number	: 26417

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-02

BLANK

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:19:50PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	47.91	47.16	0.0000	0.00
2	92.10	91.38	0.0000	0.00
3	112.36	111.65	0.0000	0.00
4	187.30	186.61	0.0000	0.00
5	424.31	423.73	0.0000	0.00
6	706.99	706.54	0.0000	0.00
7	768.30	767.88	0.0000	0.00
8	839.87	839.49	0.0000	0.00
9	851.28	850.91	0.0000	0.00
10	998.84	998.55	0.0000	0.00
11	1139.96	1139.74	0.0000	0.00
12	1174.25	1174.05	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-02

BLANK

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	47.91	39 -	55	47.16	9.69E+01	65.66	3.72E+02	8.82
	2	92.10	86 -	96	91.38	1.04E+02	44.67	2.00E+02	2.92
	3	112.36	108 -	117	111.65	4.66E+01	32.70	1.29E+02	6.71
M	4	187.30	181 -	203	186.61	3.85E+01	39.50	1.89E+02	3.86
	5	424.31	422 -	426	423.73	1.00E+01	9.22	1.00E+01	1.77
	6	706.99	702 -	711	706.54	1.77E+01	15.65	2.46E+01	1.93
	7	768.30	760 -	775	767.88	1.50E+01	19.49	3.20E+01	1.24
	8	839.87	832 -	846	839.49	1.86E+01	18.89	2.88E+01	1.13
	9	851.28	848 -	853	850.91	8.38E+00	8.66	7.25E+00	1.18
	10	998.84	993 -	1003	998.55	8.50E+00	10.79	1.10E+01	1.45
	11	1139.96	1134 -	1142	1139.74	6.36E+00	9.19	9.27E+00	1.85
	12	1174.25	1169 -	1177	1174.05	6.06E+00	7.23	3.88E+00	3.11

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
1	47.91	39 -	55	9.69E+01	65.66	3.72E+02	5.15E+01
2	92.10	86 -	96	1.04E+02	44.67	2.00E+02	3.27E+01
3	112.36	108 -	117	4.66E+01	32.70	1.29E+02	2.44E+01

Analysis Report for 1508002-02

BLANK

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	4	187.30	181 -	203	3.85E+01	39.50	1.89E+02	2.26E+01
	5	424.31	422 -	426	1.00E+01	9.22	1.00E+01	5.51E+00
	6	706.99	702 -	711	1.77E+01	15.65	2.46E+01	1.08E+01
	7	768.30	760 -	775	1.50E+01	19.49	3.20E+01	1.47E+01
	8	839.87	832 -	846	1.86E+01	18.89	2.88E+01	1.38E+01
	9	851.28	848 -	853	8.38E+00	8.66	7.25E+00	5.30E+00
	10	998.84	993 -	1003	8.50E+00	10.79	1.10E+01	7.47E+00
	11	1139.96	1134 -	1142	6.36E+00	9.19	9.27E+00	6.32E+00
	12	1174.25	1169 -	1177	6.06E+00	7.23	3.88E+00	4.35E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	47.91	39 -	55	47.16	9.69E+01	65.66	3.72E+02	TH-230
	2	92.10	86 -	96	91.38	1.04E+02	44.67	2.00E+02	ND-147
	3	112.36	108 -	117	111.65	4.66E+01	32.70	1.29E+02	.....
M	4	187.30	181 -	203	186.61	3.85E+01	39.50	1.89E+02	.....
	5	424.31	422 -	426	423.73	1.00E+01	9.22	1.00E+01	BA-140
	6	706.99	702 -	711	706.54	1.77E+01	15.65	2.46E+01	AG-110M
	7	768.30	760 -	775	767.88	1.50E+01	19.49	3.20E+01	.....
	8	839.87	832 -	846	839.49	1.86E+01	18.89	2.88E+01	.....
	9	851.28	848 -	853	850.91	8.38E+00	8.66	7.25E+00	.....
	10	998.84	993 -	1003	998.55	8.50E+00	10.79	1.10E+01	.....
	11	1139.96	1134 -	1142	1139.74	6.36E+00	9.19	9.27E+00	.....
	12	1174.25	1169 -	1177	1174.05	6.06E+00	7.23	3.88E+00	.....

Analysis Report for 1508002-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	47.91	9.69E+01	65.66	2.60E-02	1.78E-03
	2	92.10	1.04E+02	44.67	1.91E-02	1.62E-03
	3	112.36	4.66E+01	32.70	1.69E-02	1.56E-03
M	4	187.30	3.85E+01	39.50	1.16E-02	1.15E-03
	5	424.31	1.00E+01	9.22	5.53E-03	6.88E-04
	6	706.99	1.77E+01	15.65	3.35E-03	3.15E-04
	7	768.30	1.50E+01	19.49	3.08E-03	2.81E-04
	8	839.87	1.86E+01	18.89	2.83E-03	2.40E-04
	9	851.28	8.38E+00	8.66	2.79E-03	2.34E-04
	10	998.84	8.50E+00	10.79	2.39E-03	1.95E-04
	11	1139.96	6.36E+00	9.19	2.11E-03	1.77E-04
	12	1174.25	6.06E+00	7.23	2.05E-03	1.73E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Analysis Report for 1508002-02

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	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	47.91	9.69E+01	65.66			9.69E+01	6.57E+01
	2	92.10	1.04E+02	44.67	4.99E+01	7.70E+00	5.41E+01	4.53E+01
	3	112.36	4.66E+01	32.70			4.66E+01	3.27E+01
M	4	187.30	3.85E+01	39.50			3.85E+01	3.95E+01
	5	424.31	1.00E+01	9.22			1.00E+01	9.22E+00
	6	706.99	1.77E+01	15.65			1.77E+01	1.57E+01
	7	768.30	1.50E+01	19.49			1.50E+01	1.95E+01
	8	839.87	1.86E+01	18.89			1.86E+01	1.89E+01
	9	851.28	8.38E+00	8.66			8.38E+00	8.66E+00
	10	998.84	8.50E+00	10.79			8.50E+00	1.08E+01
	11	1139.96	6.36E+00	9.19			6.36E+00	9.19E+00
	12	1174.25	6.06E+00	7.23			6.06E+00	7.23E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:19:50PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025969.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	47.91	9.69E+01	65.66			9.69E+01	6.57E+01
	2	92.10	1.04E+02	44.67	4.99E+01	7.70E+00	5.41E+01	4.53E+01
	3	112.36	4.66E+01	32.70			4.66E+01	3.27E+01
M	4	187.30	3.85E+01	39.50			3.85E+01	3.95E+01
	5	424.31	1.00E+01	9.22			1.00E+01	9.22E+00
	6	706.99	1.77E+01	15.65			1.77E+01	1.57E+01
	7	768.30	1.50E+01	19.49			1.50E+01	1.95E+01
	8	839.87	1.86E+01	18.89			1.86E+01	1.89E+01
	9	851.28	8.38E+00	8.66			8.38E+00	8.66E+00
	10	998.84	8.50E+00	10.79			8.50E+00	1.08E+01
	11	1139.96	6.36E+00	9.19			6.36E+00	9.19E+00
	12	1174.25	6.06E+00	7.23			6.06E+00	7.23E+00

Analysis Report for 1508002-02

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
ND-147	0.610	91.11	*	28.90	9.57E-02	8.06E-02
		531.02		13.10		
TH-230	0.617	48.44	*	16.90	2.11E-01	1.44E-01
		62.85		4.60		
		67.67		0.37		

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:19:50PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	112.36	1.29467E-02	35.07		
M	4	187.30	1.06937E-02	51.30		
	5	424.31	2.77778E-03	46.10	Tol.	BA-140
	6	706.99	4.91667E-03	44.22	Tol.	AG-110M
	7	768.30	4.16667E-03	64.98		

Analysis Report for 1508002-02

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Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
8	839.87	5.16414E-03	50.82		
9	851.28	2.32639E-03	51.70		
10	998.84	2.36111E-03	63.49		
11	1139.96	1.76768E-03	72.23		
12	1174.25	1.68403E-03	59.62		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
ND-147	0.61	91.11	*	28.90	9.57E-02	8.06E-02
		531.02		13.10		
TH-230	0.61	48.44	*	16.90	2.11E-01	1.44E-01
		62.85		4.60		
		67.67		0.37		

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

Analysis Report for 1508002-02

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Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
ND-147	0.610	9.57E-02	8.06E-02	
TH-230	0.617	2.11E-01	1.44E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-02

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UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:19:50PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	112.36	1.29467E-02	35.07		
M	4	187.30	1.06937E-02	51.30		
	5	424.31	2.77778E-03	46.10	Tol.	BA-140
	6	706.99	4.91667E-03	44.22	Tol.	AG-110M
	7	768.30	4.16667E-03	64.98		
	8	839.87	5.16414E-03	50.82		
	9	851.28	2.32639E-03	51.70		
	10	998.84	2.36111E-03	63.49		
	11	1139.96	1.76768E-03	72.23		
	12	1174.25	1.68403E-03	59.62		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59	10.42	6.68E-02	5.67E-01	5.67E-01
+	NA-22	1274.54	99.94	-6.72E-03	4.68E-02	4.68E-02
+	NA-24	1368.53	99.99	1.67E-02	8.09E-02	8.09E-02
		2754.09	99.86	2.59E-02		1.20E-01
+	AL-26	1808.65	99.76	2.05E-02	7.36E-02	7.36E-02
+	K-40	1460.81	10.67	-2.13E-01	3.92E-01	3.92E-01
+	AR-41	1293.64	99.16	-5.92E-01	5.94E-01	5.94E-01

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TI-44	67.88	94.40	-7.39E-03	2.55E-02	2.55E-02
		78.34	96.00	-6.87E-03		2.62E-02
+	SC-46	889.25	99.98	3.83E-02	7.11E-02	8.07E-02
		1120.51	99.99	-9.15E-03		7.11E-02
+	V-48	983.52	99.98	0.00E+00	6.67E-02	6.67E-02
		1312.10	97.50	1.71E-02		8.07E-02
+	CR-51	320.08	9.83	2.20E-01	5.02E-01	5.02E-01
+	MN-54	834.83	99.97	1.87E-03	7.57E-02	7.57E-02
+	CO-56	846.75	99.96	4.15E-03	7.88E-02	7.88E-02
		1037.75	14.03	1.02E-01		5.39E-01
		1238.25	67.00	-2.37E-02		1.04E-01
		1771.40	15.51	-2.74E-01		3.19E-01
		2598.48	16.90	-1.94E-01		3.89E-01
+	CO-57	122.06	85.51	3.00E-03	3.36E-02	3.36E-02
		136.48	10.60	2.70E-02		2.99E-01
+	CO-58	810.76	99.40	3.93E-02	7.42E-02	7.42E-02
+	FE-59	1099.22	56.50	-4.05E-03	1.10E-01	1.30E-01
		1291.56	43.20	3.95E-03		1.10E-01
+	CO-60	1173.22	100.00	1.93E-02	7.40E-02	7.41E-02
		1332.49	100.00	0.00E+00		7.40E-02
+	ZN-65	1115.52	50.75	0.00E+00	1.46E-01	1.46E-01
+	GA-67	93.31	35.70	8.80E-02	9.24E-02	9.24E-02
		208.95	2.24	-3.63E-01		1.68E+00
		300.22	16.00	-4.75E-02		2.83E-01
+	SE-75	121.11	16.70	-7.08E-03	5.19E-02	1.68E-01
		136.00	59.20	-9.51E-03		5.19E-02
		264.65	59.80	-4.27E-02		7.01E-02
		279.53	25.20	5.59E-02		1.85E-01
		400.65	11.40	-1.01E-01		4.30E-01
+	RB-82	776.52	13.00	4.64E-03	4.90E-01	4.90E-01
+	RB-83	520.41	46.00	4.38E-02	1.30E-01	1.30E-01
		529.64	30.30	-5.58E-02		1.78E-01
		552.65	16.40	-1.23E-01		2.85E-01
+	KR-85	513.99	0.43	1.30E+01	1.76E+01	1.76E+01
+	SR-85	513.99	99.27	5.69E-02	7.73E-02	7.73E-02
+	Y-88	898.02	93.40	-8.09E-03	7.31E-02	7.31E-02
		1836.01	99.38	1.86E-02		9.12E-02
+	NB-93M	16.57	9.43	2.79E-01	2.17E-01	2.17E-01
+	NB-94	702.63	100.00	7.91E-03	7.07E-02	7.52E-02
		871.10	100.00	2.93E-03		7.07E-02
+	NB-95	765.79	99.81	8.05E-03	7.18E-02	7.18E-02
+	NB-95M	235.69	25.00	1.00E-02	1.96E-01	1.96E-01
+	ZR-95	724.18	43.70	9.54E-03	1.08E-01	1.27E-01
		756.72	55.30	7.69E-03		1.08E-01
+	MO-99	181.06	6.20	2.81E-02	6.19E-01	6.23E-01
		739.58	12.80	2.21E-01		6.19E-01
		778.00	4.50	8.39E-02		1.42E+00

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RU-103	497.08	89.00	-1.21E-02	4.74E-02	4.74E-02
+	RU-106	621.84	9.80	-9.02E-02	5.49E-01	5.49E-01
+	AG-108M	433.93	89.90	3.14E-02	5.96E-02	5.96E-02
		614.37	90.40	1.49E-02		7.29E-02
		722.95	90.50	1.36E-02		6.09E-02
+	CD-109	88.03	3.72	5.09E-02	8.21E-01	8.21E-01
+	AG-110M	657.75	93.14	-1.42E-02	5.76E-02	5.76E-02
		677.61	10.53	-1.26E-01		5.86E-01
		706.67	16.46	2.44E-01		4.83E-01
		763.93	21.98	2.53E-02		3.16E-01
		884.67	71.63	-7.60E-03		1.00E-01
		1384.27	23.94	-5.29E-02		2.44E-01
+	CD-113M	263.70	0.02	-9.50E+01	1.83E+02	1.83E+02
+	SN-113	255.12	1.93	2.03E-01	7.59E-02	2.17E+00
		391.69	64.90	2.23E-02		7.59E-02
+	TE123M	159.00	84.10	-5.79E-03	4.27E-02	4.27E-02
+	SB-124	602.71	97.87	-2.93E-02	5.90E-02	5.90E-02
		645.85	7.26	-3.27E-01		8.13E-01
		722.78	11.10	1.23E-01		4.98E-01
		1691.02	49.00	6.92E-02		1.98E-01
+	I-125	35.49	6.49	1.21E-01	2.97E-01	2.97E-01
+	SB-125	176.33	6.89	-9.49E-02	1.75E-01	4.81E-01
		427.89	29.33	7.95E-03		1.75E-01
		463.38	10.35	-1.10E-01		4.29E-01
		600.56	17.80	1.22E-01		3.56E-01
		635.90	11.32	3.96E-03		5.70E-01
+	SB-126	414.70	83.30	-1.60E-02	5.93E-02	5.93E-02
		666.33	99.60	2.56E-02		6.34E-02
		695.00	99.60	2.26E-02		6.76E-02
		720.50	53.80	-5.52E-02		8.75E-02
+	SN-126	87.57	37.00	5.10E-03	8.22E-02	8.22E-02
+	SB-127	473.00	25.00	-7.77E-02	1.70E-01	2.11E-01
		685.20	35.70	2.74E-03		1.70E-01
		783.80	14.70	4.55E-02		4.13E-01
+	I-129	29.78	57.00	-1.34E-02	3.62E-02	3.62E-02
		33.60	13.20	3.76E-02		1.48E-01
		39.58	7.52	4.25E-02		2.55E-01
+	I-131	284.30	6.05	1.16E-01	6.56E-02	8.00E-01
		364.48	81.20	-2.10E-03		6.56E-02
		636.97	7.26	2.53E-01		9.49E-01
		722.89	1.80	7.74E-01		3.14E+00
+	TE-132	49.72	13.10	1.74E-01	5.16E-02	1.96E-01
		228.16	88.00	-6.01E-04		5.16E-02
+	BA-133	81.00	33.00	-1.79E-02	7.79E-02	7.79E-02
		302.84	17.80	-5.12E-02		2.28E-01
		356.01	60.00	-5.63E-03		8.20E-02
+	I-133	529.87	86.30	-2.49E-02	7.96E-02	7.96E-02
+	XE-133	81.00	38.00	-1.62E-02	7.04E-02	7.04E-02

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	CS-134	563.23		8.38	-4.19E-01	6.17E-02	6.42E-01
		569.32		15.43	4.50E-02		4.23E-01
		604.70		97.60	-1.26E-02		6.17E-02
		795.84		85.40	-6.57E-03		7.34E-02
		801.93		8.73	-1.97E-01		7.92E-01
+	CS-135	268.24		16.00	3.63E-03	2.71E-01	2.71E-01
+	I-135	1131.51		22.50	3.48E-02	5.61E-01	7.16E-01
		1260.41		28.60	3.73E-02		5.61E-01
		1678.03		9.54	2.08E-01		1.55E+00
+	CS-136	153.22		7.46	2.20E-01	4.75E-02	4.79E-01
		163.89		4.61	2.48E-01		8.25E-01
		176.55		13.56	-4.91E-02		2.48E-01
		273.65		12.66	-7.19E-02		3.60E-01
		340.57		48.50	-1.32E-02		9.78E-02
		818.50		99.70	-2.68E-02		4.75E-02
		1048.07		79.60	2.30E-03		8.05E-02
		1235.34		19.70	-3.03E-02		3.31E-01
+	CS-137	661.65		85.12	-4.35E-02	5.72E-02	5.72E-02
+	LA-138	788.74		34.00	2.35E-02	1.02E-01	1.63E-01
		1435.80		66.00	-2.76E-02		1.02E-01
+	CE-139	165.85		80.35	1.71E-02	4.55E-02	4.55E-02
+	BA-140	162.64		6.70	2.41E-01	2.47E-01	5.69E-01
		304.84		4.50	2.80E-01		9.31E-01
		423.70		3.20	-4.10E-01		1.45E+00
		437.55		2.00	-1.82E-01		2.60E+00
		537.32		25.00	1.09E-01		2.47E-01
+	LA-140	328.77		20.50	-1.41E-01	7.04E-02	1.99E-01
		487.03		45.50	-2.41E-02		1.17E-01
		815.85		23.50	-1.22E-01		2.14E-01
		1596.49		95.49	-9.45E-03		7.04E-02
+	CE-141	145.44		48.40	-2.38E-02	6.53E-02	6.53E-02
+	CE-143	57.36		11.80	-1.13E-01	1.32E-01	2.26E-01
		293.26		42.00	1.86E-02		1.32E-01
		664.55		5.20	8.18E-02		1.25E+00
+	CE-144	133.54		10.80	-1.20E-01	2.75E-01	2.75E-01
+	PM-144	476.78		42.00	-3.97E-02	5.42E-02	1.30E-01
		618.01		98.60	-2.82E-02		5.42E-02
		696.49		99.49	2.33E-02		6.67E-02
+	PM-145	36.85		21.70	1.50E-02	4.58E-02	8.52E-02
		37.36		39.70	2.24E-03		4.58E-02
		42.30		15.10	4.95E-02		1.44E-01
		72.40		2.31	3.93E-01		1.05E+00
+	PM-146	453.90		39.94	9.27E-03	1.16E-01	1.16E-01
		735.90		14.01	1.53E-01		5.22E-01
		747.13		13.10	-1.00E-01		4.50E-01
+	ND-147	91.11	*	28.90	9.57E-02	1.30E-01	1.30E-01
		531.02		13.10	-3.71E-02		4.28E-01
+	PM-149	285.90		3.10	4.95E-02	1.64E+00	1.64E+00
+	EU-152	121.78		20.50	1.25E-02	1.40E-01	1.40E-01

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	EU-152	244.69	5.40	-2.05E-01	1.40E-01	6.80E-01
		344.27	19.13	-1.05E-01		2.39E-01
		778.89	9.20	3.81E-02		6.45E-01
		964.01	10.40	9.94E-02		6.76E-01
		1085.78	7.22	-1.07E-01		1.00E+00
		1112.02	9.60	6.73E-02		8.39E-01
		1407.95	14.94	1.17E-01		4.43E-01
+	GD-153	97.43	31.30	-4.01E-02	7.81E-02	7.81E-02
		103.18	22.20	3.84E-02		1.12E-01
+	EU-154	123.07	40.50	6.74E-03	7.38E-02	7.38E-02
		723.30	19.70	6.24E-02		2.80E-01
		873.19	11.50	-3.72E-02		6.16E-01
		996.32	10.30	3.43E-01		7.57E-01
		1004.76	17.90	-5.82E-02		3.92E-01
		1274.45	35.50	-1.89E-02		1.32E-01
+	EU-155	86.50	30.90	2.85E-03	9.46E-02	9.46E-02
		105.30	20.70	-5.82E-03		1.25E-01
+	EU-156	811.77	10.40	3.90E-01	6.67E-01	7.00E-01
		1153.47	7.20	-6.47E-02		8.48E-01
		1230.71	8.90	1.71E-01		6.67E-01
+	HO-166M	184.41	72.60	5.20E-02	6.01E-02	6.01E-02
		280.45	29.60	-8.96E-03		1.55E-01
		410.94	11.10	-8.55E-02		4.58E-01
		711.69	54.10	2.66E-03		1.22E-01
+	TM-171	66.72	0.14	5.15E+00	1.78E+01	1.78E+01
+	HF-172	81.75	4.52	-1.18E-01	2.80E-01	5.85E-01
		125.81	11.30	1.74E-01		2.80E-01
+	LU-172	181.53	20.60	1.69E-02	1.20E-01	1.88E-01
		810.06	16.63	2.41E-01		4.56E-01
		912.12	15.25	-1.55E-01		3.94E-01
		1093.66	62.50	-2.81E-02		1.20E-01
+	LU-173	100.72	5.24	-1.84E-02	2.20E-01	4.43E-01
		272.11	21.20	9.34E-02		2.20E-01
+	HF-175	343.40	84.00	-1.02E-02	5.56E-02	5.56E-02
+	LU-176	88.34	13.30	2.05E-02	3.94E-02	2.43E-01
		201.83	86.00	1.37E-03		4.44E-02
		306.78	94.00	-2.68E-02		3.94E-02
+	TA-182	67.75	41.20	-1.69E-02	5.85E-02	5.85E-02
		1121.30	34.90	-9.85E-02		1.81E-01
		1189.05	16.23	-3.57E-02		4.86E-01
		1221.41	26.98	1.18E-01		3.00E-01
		1231.02	11.44	1.32E-01		5.13E-01
+	IR-192	308.46	29.68	-2.68E-02	1.01E-01	1.38E-01
		468.07	48.10	2.08E-02		1.01E-01
+	HG-203	279.19	77.30	1.82E-02	6.03E-02	6.03E-02
+	BI-207	569.67	97.72	7.10E-03	6.68E-02	6.68E-02
		1063.62	74.90	1.17E-02		9.90E-02
+	TL-208	583.14	30.22	-1.57E-02	1.67E-01	1.67E-01
		860.37	4.48	1.79E-01		1.51E+00

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TL-208	2614.66		35.85	6.48E-02	1.67E-01	3.27E-01
+	BI-210M	262.00		45.00	2.57E-02	9.81E-02	9.81E-02
		300.00		23.00	4.52E-02		1.97E-01
+	PB-210	46.50		4.25	3.95E-01	5.52E-01	5.52E-01
+	PB-211	404.84		2.90	9.45E-01	1.94E+00	1.94E+00
		831.96		2.90	1.54E-02		2.10E+00
+	BI-212	727.17		11.80	4.52E-02	5.02E-01	5.02E-01
		1620.62		2.75	-6.79E-01		1.67E+00
+	PB-212	238.63		44.60	5.06E-02	1.04E-01	1.04E-01
		300.09		3.41	3.05E-01		1.33E+00
+	BI-214	609.31		46.30	4.77E-02	1.51E-01	1.51E-01
		1120.29		15.10	-6.04E-02		4.70E-01
		1764.49		15.80	1.27E-01		5.08E-01
		2204.22		4.98	-4.08E-01		1.72E+00
+	PB-214	295.21		19.19	7.31E-02	1.29E-01	2.43E-01
		351.92		37.19	1.45E-03		1.29E-01
+	RN-219	401.80		6.50	-7.53E-02	8.04E-01	8.04E-01
+	RA-223	323.87		3.88	-3.80E-02	1.11E+00	1.11E+00
+	RA-224	240.98		3.95	6.97E-01	1.14E+00	1.14E+00
+	RA-225	40.00		31.00	1.05E-02	6.30E-02	6.30E-02
+	RA-226	186.21		3.28	9.85E-01	1.32E+00	1.32E+00
+	TH-227	50.10		8.40	2.56E-01	2.87E-01	2.87E-01
		236.00		11.50	2.06E-02		4.02E-01
		256.20		6.30	3.48E-01		7.16E-01
+	AC-228	338.32		11.40	-9.50E-03	2.31E-01	4.07E-01
		911.07		27.70	-1.94E-02		2.31E-01
		969.11		16.60	1.68E-02		4.72E-01
+	TH-230	48.44	*	16.90	2.11E-01	2.30E-01	2.30E-01
		62.85		4.60	3.90E-01		5.45E-01
		67.67		0.37	-1.88E+00		6.50E+00
+	PA-231	283.67		1.60	9.36E-01	1.76E+00	2.94E+00
		302.67		2.30	-3.96E-01		1.76E+00
+	TH-231	25.64		14.70	3.83E-02	1.53E-01	1.53E-01
		84.21		6.40	5.86E-02		4.30E-01
+	PA-233	311.98		38.60	-9.07E-03	1.11E-01	1.11E-01
+	PA-234	131.20		20.40	-5.64E-02	1.44E-01	1.44E-01
		733.99		8.80	3.15E-01		8.11E-01
		946.00		12.00	1.90E-01		5.97E-01
+	PA-234M	1001.03		0.92	-4.37E-01	7.92E+00	7.92E+00
+	TH-234	63.29		3.80	2.25E-01	6.49E-01	6.49E-01
+	U-235	143.76		10.50	4.27E-02	3.11E-01	3.11E-01
		163.35		4.70	2.38E-01		7.94E-01
		205.31		4.70	5.71E-02		7.38E-01
+	NP-237	86.50		12.60	6.98E-03	2.32E-01	2.32E-01
+	NP-239	106.10		22.70	-5.83E-03	1.25E-01	1.25E-01
		228.18		10.70	8.00E-02		4.43E-01
		277.60		14.10	-4.25E-02		3.52E-01

Analysis Report for 1508002-02

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	AM-241	59.54	35.90	3.26E-02	6.83E-02	6.83E-02
+	AM-243	74.67	66.00	1.37E-03	3.69E-02	3.69E-02
+	CM-243	209.75	3.29	1.03E-01	3.25E-01	1.12E+00
		228.14	10.60	-4.68E-03		4.02E-01
		277.60	14.00	-3.91E-02		3.25E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BE-7	477.59	10.42	5.67E-01	5.67E-01	6.68E-02	2.58E-01
NA-22	1274.54	99.94	4.68E-02	4.68E-02	-6.72E-03	1.66E-02
NA-24	1368.53	99.99	8.09E-02	8.09E-02	1.67E-02	3.03E-02
	2754.09	99.86	1.20E-01		2.59E-02	4.26E-02
AL-26	1808.65	99.76	7.36E-02	7.36E-02	2.05E-02	2.75E-02
K-40	1460.81	10.67	3.92E-01	3.92E-01	-2.13E-01	1.24E-01
AR-41	1293.64	99.16	5.94E-01	5.94E-01	-5.92E-01	1.88E-01
TI-44	67.88	94.40	2.55E-02	2.55E-02	-7.39E-03	1.21E-02
	78.34	96.00	2.62E-02		-6.87E-03	1.25E-02
SC-46	889.25	99.98	8.07E-02	7.11E-02	3.83E-02	3.55E-02
	1120.51	99.99	7.11E-02		-9.15E-03	2.95E-02
V-48	983.52	99.98	6.67E-02	6.67E-02	0.00E+00	2.79E-02
	1312.10	97.50	8.07E-02		1.71E-02	3.31E-02
CR-51	320.08	9.83	5.02E-01	5.02E-01	2.20E-01	2.32E-01
MN-54	834.83	99.97	7.57E-02	7.57E-02	1.87E-03	3.33E-02
CO-56	846.75	99.96	7.88E-02	7.88E-02	4.15E-03	3.48E-02
	1037.75	14.03	5.39E-01		1.02E-01	2.29E-01
	1238.25	67.00	1.04E-01		-2.37E-02	4.18E-02

Analysis Report for 1508002-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CO-56	1771.40	15.51	3.19E-01	7.88E-02	-2.74E-01	1.01E-01
	2598.48	16.90	3.89E-01		-1.94E-01	1.23E-01
CO-57	122.06	85.51	3.36E-02	3.36E-02	3.00E-03	1.59E-02
	136.48	10.60	2.99E-01		2.70E-02	1.41E-01
CO-58	810.76	99.40	7.42E-02	7.42E-02	3.93E-02	3.26E-02
FE-59	1099.22	56.50	1.30E-01	1.10E-01	-4.05E-03	5.45E-02
	1291.56	43.20	1.10E-01		3.95E-03	3.90E-02
CO-60	1173.22	100.00	7.41E-02	7.40E-02	1.93E-02	3.07E-02
	1332.49	100.00	7.40E-02		0.00E+00	2.99E-02
ZN-65	1115.52	50.75	1.46E-01	1.46E-01	0.00E+00	6.13E-02
GA-67	93.31	35.70	9.24E-02	9.24E-02	8.80E-02	4.42E-02
	208.95	2.24	1.68E+00		-3.63E-01	7.79E-01
	300.22	16.00	2.83E-01		-4.75E-02	1.30E-01
SE-75	121.11	16.70	1.68E-01	5.19E-02	-7.08E-03	7.91E-02
	136.00	59.20	5.19E-02		-9.51E-03	2.45E-02
	264.65	59.80	7.01E-02		-4.27E-02	3.25E-02
	279.53	25.20	1.85E-01		5.59E-02	8.60E-02
	400.65	11.40	4.30E-01		-1.01E-01	1.96E-01
RB-82	776.52	13.00	4.90E-01	4.90E-01	4.64E-03	2.12E-01
RB-83	520.41	46.00	1.30E-01	1.30E-01	4.38E-02	5.88E-02
	529.64	30.30	1.78E-01		-5.58E-02	7.95E-02
	552.65	16.40	2.85E-01		-1.23E-01	1.24E-01
KR-85	513.99	0.43	1.76E+01	1.76E+01	1.30E+01	8.16E+00
SR-85	513.99	99.27	7.73E-02	7.73E-02	5.69E-02	3.58E-02
Y-88	898.02	93.40	7.31E-02	7.31E-02	-8.09E-03	3.13E-02
	1836.01	99.38	9.12E-02		1.86E-02	3.62E-02
NB-93M	16.57	9.43	2.17E-01	2.17E-01	2.79E-01	1.04E-01
NB-94	702.63	100.00	7.52E-02	7.07E-02	7.91E-03	3.38E-02
	871.10	100.00	7.07E-02		2.93E-03	3.06E-02
NB-95	765.79	99.81	7.18E-02	7.18E-02	8.05E-03	3.17E-02
NB-95M	235.69	25.00	1.96E-01	1.96E-01	1.00E-02	9.21E-02
ZR-95	724.18	43.70	1.27E-01	1.08E-01	9.54E-03	5.43E-02
	756.72	55.30	1.08E-01		7.69E-03	4.66E-02
MO-99	181.06	6.20	6.23E-01	6.19E-01	2.81E-02	2.92E-01
	739.58	12.80	6.19E-01		2.21E-01	2.75E-01
	778.00	4.50	1.42E+00		8.39E-02	6.08E-01
RU-103	497.08	89.00	4.74E-02	4.74E-02	-1.21E-02	2.06E-02
RU-106	621.84	9.80	5.49E-01	5.49E-01	-9.02E-02	2.40E-01
AG-108M	433.93	89.90	5.96E-02	5.96E-02	3.14E-02	2.71E-02
	614.37	90.40	7.29E-02		1.49E-02	3.27E-02
	722.95	90.50	6.09E-02		1.36E-02	2.61E-02
CD-109	88.03	3.72	8.21E-01	8.21E-01	5.09E-02	3.93E-01
AG-110M	657.75	93.14	5.76E-02	5.76E-02	-1.42E-02	2.49E-02
	677.61	10.53	5.86E-01		-1.26E-01	2.58E-01
	706.67	16.46	4.83E-01		2.44E-01	2.18E-01
	763.93	21.98	3.16E-01		2.53E-02	1.39E-01
	884.67	71.63	1.00E-01		-7.60E-03	4.34E-02
	1384.27	23.94	2.44E-01		-5.29E-02	9.14E-02
CD-113M	263.70	0.02	1.83E+02	1.83E+02	-9.50E+01	8.49E+01
SN-113	255.12	1.93	2.17E+00	7.59E-02	2.03E-01	1.01E+00
	391.69	64.90	7.59E-02		2.23E-02	3.46E-02
TE123M	159.00	84.10	4.27E-02	4.27E-02	-5.79E-03	2.02E-02
SB-124	602.71	97.87	5.90E-02	5.90E-02	-2.93E-02	2.61E-02

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
SB-124	645.85	7.26	8.13E-01	5.90E-02	-3.27E-01	3.57E-01
	722.78	11.10	4.98E-01		1.23E-01	2.13E-01
	1691.02	49.00	1.98E-01		6.92E-02	8.13E-02
I-125	35.49	6.49	2.97E-01	2.97E-01	1.21E-01	1.41E-01
SB-125	176.33	6.89	4.81E-01	1.75E-01	-9.49E-02	2.25E-01
	427.89	29.33	1.75E-01		7.95E-03	7.97E-02
	463.38	10.35	4.29E-01		-1.10E-01	1.90E-01
	600.56	17.80	3.56E-01		1.22E-01	1.59E-01
	635.90	11.32	5.70E-01		3.96E-03	2.54E-01
SB-126	414.70	83.30	5.93E-02	5.93E-02	-1.60E-02	2.68E-02
	666.33	99.60	6.34E-02		2.56E-02	2.80E-02
	695.00	99.60	6.76E-02		2.26E-02	2.99E-02
	720.50	53.80	8.75E-02		-5.52E-02	3.63E-02
SN-126	87.57	37.00	8.22E-02	8.22E-02	5.10E-03	3.93E-02
SB-127	473.00	25.00	2.11E-01	1.70E-01	-7.77E-02	9.47E-02
	685.20	35.70	1.70E-01		2.74E-03	7.40E-02
	783.80	14.70	4.13E-01		4.55E-02	1.76E-01
I-129	29.78	57.00	3.62E-02	3.62E-02	-1.34E-02	1.73E-02
	33.60	13.20	1.48E-01		3.76E-02	7.07E-02
	39.58	7.52	2.55E-01		4.25E-02	1.21E-01
I-131	284.30	6.05	8.00E-01	6.56E-02	1.16E-01	3.73E-01
	364.48	81.20	6.56E-02		-2.10E-03	3.02E-02
	636.97	7.26	9.49E-01		2.53E-01	4.25E-01
	722.89	1.80	3.14E+00		7.74E-01	1.35E+00
TE-132	49.72	13.10	1.96E-01	5.16E-02	1.74E-01	9.37E-02
	228.16	88.00	5.16E-02		-6.01E-04	2.42E-02
BA-133	81.00	33.00	7.79E-02	7.79E-02	-1.79E-02	3.70E-02
	302.84	17.80	2.28E-01		-5.12E-02	1.04E-01
	356.01	60.00	8.20E-02		-5.63E-03	3.77E-02
I-133	529.87	86.30	7.96E-02	7.96E-02	-2.49E-02	3.55E-02
XE-133	81.00	38.00	7.04E-02	7.04E-02	-1.62E-02	3.35E-02
CS-134	563.23	8.38	6.42E-01	6.17E-02	-4.19E-01	2.84E-01
	569.32	15.43	4.23E-01		4.50E-02	1.91E-01
	604.70	97.60	6.17E-02		-1.26E-02	2.74E-02
	795.84	85.40	7.34E-02		-6.57E-03	3.16E-02
	801.93	8.73	7.92E-01		-1.97E-01	3.46E-01
CS-135	268.24	16.00	2.71E-01	2.71E-01	3.63E-03	1.26E-01
I-135	1131.51	22.50	7.16E-01	5.61E-01	3.48E-02	3.00E-01
	1260.41	28.60	5.61E-01		3.73E-02	2.30E-01
	1678.03	9.54	1.55E+00		2.08E-01	5.80E-01
CS-136	153.22	7.46	4.79E-01	4.75E-02	2.20E-01	2.27E-01
	163.89	4.61	8.25E-01		2.48E-01	3.90E-01
	176.55	13.56	2.48E-01		-4.91E-02	1.16E-01
	273.65	12.66	3.60E-01		-7.19E-02	1.68E-01
	340.57	48.50	9.78E-02		-1.32E-02	4.49E-02
	818.50	99.70	4.75E-02		-2.68E-02	1.92E-02
	1048.07	79.60	8.05E-02		2.30E-03	3.30E-02
	1235.34	19.70	3.31E-01		-3.03E-02	1.31E-01
CS-137	661.65	85.12	5.72E-02	5.72E-02	-4.35E-02	2.43E-02
LA-138	788.74	34.00	1.63E-01	1.02E-01	2.35E-02	6.90E-02
	1435.80	66.00	1.02E-01		-2.76E-02	3.95E-02
CE-139	165.85	80.35	4.55E-02	4.55E-02	1.71E-02	2.15E-02
BA-140	162.64	6.70	5.69E-01	2.47E-01	2.41E-01	2.69E-01

Analysis Report for 1508002-02

BLANK

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-140	304.84		4.50	9.31E-01	2.47E-01	2.80E-01	4.27E-01
		423.70		3.20	1.45E+00		-4.10E-01	6.53E-01
		437.55		2.00	2.60E+00		-1.82E-01	1.18E+00
		537.32		25.00	2.47E-01		1.09E-01	1.11E-01
	LA-140	328.77		20.50	1.99E-01	7.04E-02	-1.41E-01	9.01E-02
		487.03		45.50	1.17E-01		-2.41E-02	5.26E-02
		815.85		23.50	2.14E-01		-1.22E-01	8.78E-02
		1596.49		95.49	7.04E-02		-9.45E-03	2.64E-02
	CE-141	145.44		48.40	6.53E-02	6.53E-02	-2.38E-02	3.07E-02
	CE-143	57.36		11.80	2.26E-01	1.32E-01	-1.13E-01	1.08E-01
		293.26		42.00	1.32E-01		1.86E-02	6.12E-02
		664.55		5.20	1.25E+00		8.18E-02	5.44E-01
	CE-144	133.54		10.80	2.75E-01	2.75E-01	-1.20E-01	1.29E-01
	PM-144	476.78		42.00	1.30E-01	5.42E-02	-3.97E-02	5.90E-02
		618.01		98.60	5.42E-02		-2.82E-02	2.37E-02
		696.49		99.49	6.67E-02		2.33E-02	2.95E-02
	PM-145	36.85		21.70	8.52E-02	4.58E-02	1.50E-02	4.05E-02
		37.36		39.70	4.58E-02		2.24E-03	2.17E-02
		42.30		15.10	1.44E-01		4.95E-02	6.89E-02
		72.40		2.31	1.05E+00		3.93E-01	5.01E-01
	PM-146	453.90		39.94	1.16E-01	1.16E-01	9.27E-03	5.17E-02
		735.90		14.01	5.22E-01		1.53E-01	2.32E-01
		747.13		13.10	4.50E-01		-1.00E-01	1.94E-01
+	ND-147	91.11	*	28.90	1.30E-01	1.30E-01	9.57E-02	6.24E-02
		531.02		13.10	4.28E-01		-3.71E-02	1.91E-01
	PM-149	285.90		3.10	1.64E+00	1.64E+00	4.95E-02	7.64E-01
	EU-152	121.78		20.50	1.40E-01	1.40E-01	1.25E-02	6.60E-02
		244.69		5.40	6.80E-01		-2.05E-01	3.14E-01
		344.27		19.13	2.39E-01		-1.05E-01	1.09E-01
		778.89		9.20	6.45E-01		3.81E-02	2.76E-01
		964.01		10.40	6.76E-01		9.94E-02	2.88E-01
		1085.78		7.22	1.00E+00		-1.07E-01	4.20E-01
		1112.02		9.60	8.39E-01		6.73E-02	3.57E-01
		1407.95		14.94	4.43E-01		1.17E-01	1.72E-01
	GD-153	97.43		31.30	7.81E-02	7.81E-02	-4.01E-02	3.68E-02
		103.18		22.20	1.12E-01		3.84E-02	5.29E-02
	EU-154	123.07		40.50	7.38E-02	7.38E-02	6.74E-03	3.49E-02
		723.30		19.70	2.80E-01		6.24E-02	1.20E-01
		873.19		11.50	6.16E-01		-3.72E-02	2.67E-01
		996.32		10.30	7.57E-01		3.43E-01	3.26E-01
		1004.76		17.90	3.92E-01		-5.82E-02	1.66E-01
		1274.45		35.50	1.32E-01		-1.89E-02	4.67E-02
	EU-155	86.50		30.90	9.46E-02	9.46E-02	2.85E-03	4.52E-02
		105.30		20.70	1.25E-01		-5.82E-03	5.87E-02
	EU-156	811.77		10.40	7.00E-01	6.67E-01	3.90E-01	3.07E-01
		1153.47		7.20	8.48E-01		-6.47E-02	3.37E-01
		1230.71		8.90	6.67E-01		1.71E-01	2.59E-01
	HO-166M	184.41		72.60	6.01E-02	6.01E-02	5.20E-02	2.85E-02
		280.45		29.60	1.55E-01		-8.96E-03	7.21E-02
		410.94		11.10	4.58E-01		-8.55E-02	2.08E-01
		711.69		54.10	1.22E-01		2.66E-03	5.40E-02
	TM-171	66.72		0.14	1.78E+01	1.78E+01	5.15E+00	8.48E+00
	HF-172	81.75		4.52	5.85E-01	2.80E-01	-1.18E-01	2.78E-01

Analysis Report for 1508002-02

BLANK

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	HF-172	125.81		11.30	2.80E-01	2.80E-01	1.74E-01	1.33E-01
	LU-172	181.53		20.60	1.88E-01	1.20E-01	1.69E-02	8.84E-02
		810.06		16.63	4.56E-01		2.41E-01	2.00E-01
		912.12		15.25	3.94E-01		-1.55E-01	1.64E-01
		1093.66		62.50	1.20E-01		-2.81E-02	5.04E-02
	LU-173	100.72		5.24	4.43E-01	2.20E-01	-1.84E-02	2.08E-01
		272.11		21.20	2.20E-01		9.34E-02	1.03E-01
	HF-175	343.40		84.00	5.56E-02	5.56E-02	-1.02E-02	2.55E-02
	LU-176	88.34		13.30	2.43E-01	3.94E-02	2.05E-02	1.16E-01
		201.83		86.00	4.44E-02		1.37E-03	2.08E-02
		306.78		94.00	3.94E-02		-2.68E-02	1.79E-02
	TA-182	67.75		41.20	5.85E-02	5.85E-02	-1.69E-02	2.79E-02
		1121.30		34.90	1.81E-01		-9.85E-02	7.32E-02
		1189.05		16.23	4.86E-01		-3.57E-02	2.04E-01
		1221.41		26.98	3.00E-01		1.18E-01	1.26E-01
		1231.02		11.44	5.13E-01		1.32E-01	1.99E-01
	IR-192	308.46		29.68	1.38E-01	1.01E-01	-2.68E-02	6.29E-02
		468.07		48.10	1.01E-01		2.08E-02	4.53E-02
	HG-203	279.19		77.30	6.03E-02	6.03E-02	1.82E-02	2.81E-02
	BI-207	569.67		97.72	6.68E-02	6.68E-02	7.10E-03	3.02E-02
		1063.62		74.90	9.90E-02		1.17E-02	4.18E-02
	TL-208	583.14		30.22	1.67E-01	1.67E-01	-1.57E-02	7.29E-02
		860.37		4.48	1.51E+00		1.79E-01	6.50E-01
		2614.66		35.85	3.27E-01		6.48E-02	1.30E-01
	BI-210M	262.00		45.00	9.81E-02	9.81E-02	2.57E-02	4.57E-02
		300.00		23.00	1.97E-01		4.52E-02	9.11E-02
	PB-210	46.50		4.25	5.52E-01	5.52E-01	3.95E-01	2.65E-01
	PB-211	404.84		2.90	1.94E+00	1.94E+00	9.45E-01	8.92E-01
		831.96		2.90	2.10E+00		1.54E-02	8.94E-01
	BI-212	727.17		11.80	5.02E-01	5.02E-01	4.52E-02	2.17E-01
		1620.62		2.75	1.67E+00		-6.79E-01	5.26E-01
	PB-212	238.63		44.60	1.04E-01	1.04E-01	5.06E-02	4.89E-02
		300.09		3.41	1.33E+00		3.05E-01	6.15E-01
	BI-214	609.31		46.30	1.51E-01	1.51E-01	4.77E-02	6.81E-02
		1120.29		15.10	4.70E-01		-6.04E-02	1.95E-01
		1764.49		15.80	5.08E-01		1.27E-01	1.97E-01
		2204.22		4.98	1.72E+00		-4.08E-01	6.43E-01
	PB-214	295.21		19.19	2.43E-01	1.29E-01	7.31E-02	1.13E-01
		351.92		37.19	1.29E-01		1.45E-03	5.95E-02
	RN-219	401.80		6.50	8.04E-01	8.04E-01	-7.53E-02	3.68E-01
	RA-223	323.87		3.88	1.11E+00	1.11E+00	-3.80E-02	5.09E-01
	RA-224	240.98		3.95	1.14E+00	1.14E+00	6.97E-01	5.34E-01
	RA-225	40.00		31.00	6.30E-02	6.30E-02	1.05E-02	2.99E-02
	RA-226	186.21		3.28	1.32E+00	1.32E+00	9.85E-01	6.25E-01
	TH-227	50.10		8.40	2.87E-01	2.87E-01	2.56E-01	1.37E-01
		236.00		11.50	4.02E-01		2.06E-02	1.89E-01
		256.20		6.30	7.16E-01		3.48E-01	3.35E-01
	AC-228	338.32		11.40	4.07E-01	2.31E-01	-9.50E-03	1.87E-01
		911.07		27.70	2.31E-01		-1.94E-02	9.75E-02
		969.11		16.60	4.72E-01		1.68E-02	2.04E-01
+	TH-230	48.44	*	16.90	2.30E-01	2.30E-01	2.11E-01	1.12E-01
		62.85		4.60	5.45E-01		3.90E-01	2.60E-01
		67.67		0.37	6.50E+00		-1.88E+00	3.09E+00

Analysis Report for 1508002-02

BLANK

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
PA-231	283.67	1.60	2.94E+00	1.76E+00	9.36E-01	1.37E+00
	302.67	2.30	1.76E+00		-3.96E-01	8.06E-01
TH-231	25.64	14.70	1.53E-01	1.53E-01	3.83E-02	7.36E-02
	84.21	6.40	4.30E-01		5.86E-02	2.05E-01
PA-233	311.98	38.60	1.11E-01	1.11E-01	-9.07E-03	5.10E-02
PA-234	131.20	20.40	1.44E-01	1.44E-01	-5.64E-02	6.76E-02
	733.99	8.80	8.11E-01		3.15E-01	3.60E-01
	946.00	12.00	5.97E-01		1.90E-01	2.56E-01
PA-234M	1001.03	0.92	7.92E+00	7.92E+00	-4.37E-01	3.37E+00
TH-234	63.29	3.80	6.49E-01	6.49E-01	2.25E-01	3.10E-01
U-235	143.76	10.50	3.11E-01	3.11E-01	4.27E-02	1.47E-01
	163.35	4.70	7.94E-01		2.38E-01	3.76E-01
	205.31	4.70	7.38E-01		5.71E-02	3.43E-01
NP-237	86.50	12.60	2.32E-01	2.32E-01	6.98E-03	1.11E-01
NP-239	106.10	22.70	1.25E-01	1.25E-01	-5.83E-03	5.88E-02
	228.18	10.70	4.43E-01		8.00E-02	2.08E-01
	277.60	14.10	3.52E-01		-4.25E-02	1.64E-01
AM-241	59.54	35.90	6.83E-02	6.83E-02	3.26E-02	3.27E-02
AM-243	74.67	66.00	3.69E-02	3.69E-02	1.37E-03	1.75E-02
CM-243	209.75	3.29	1.12E+00	3.25E-01	1.03E-01	5.23E-01
	228.14	10.60	4.02E-01		-4.68E-03	1.88E-01
	277.60	14.00	3.25E-01		-3.91E-02	1.51E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1508002-02

BLANK

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: BLANK

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	19	46
17:	32	34	27	21	23	26	30	25
25:	27	19	26	15	22	11	21	21
33:	8	18	24	12	8	15	9	8
41:	16	19	17	15	29	32	16	15
49:	18	15	12	13	26	12	11	9
57:	20	15	13	13	22	27	28	15
65:	12	12	9	15	12	16	15	13
73:	12	17	16	12	15	8	15	16
81:	13	14	14	20	18	11	19	21
89:	19	18	25	34	28	14	10	5
97:	5	6	10	8	5	10	14	15
105:	10	10	7	3	18	16	12	10
113:	12	11	17	8	4	11	7	8
121:	11	17	10	14	12	11	16	8
129:	11	10	6	10	6	10	13	15
137:	7	12	13	12	11	15	9	9
145:	12	8	7	6	10	11	9	13
153:	13	11	11	11	13	9	13	9
161:	13	10	12	12	12	16	7	4
169:	11	12	6	5	9	8	7	7
177:	9	3	11	12	7	9	8	14
185:	15	21	16	16	10	5	10	7
193:	4	9	8	15	12	11	9	11
201:	8	7	4	5	9	4	6	9
209:	8	5	6	8	11	7	8	10
217:	9	10	11	8	10	5	9	11
225:	6	9	5	11	13	7	6	12
233:	8	8	8	12	8	12	12	10
241:	9	6	2	7	8	2	3	2
249:	6	3	5	6	13	1	4	9
257:	9	10	9	9	9	4	6	4
265:	4	4	8	8	7	9	9	6
273:	5	6	9	2	8	10	4	11
281:	6	10	3	7	2	8	12	4
289:	8	2	7	6	6	8	9	10
297:	4	3	4	6	6	4	6	2
305:	5	4	4	4	2	1	7	10
313:	1	5	8	5	6	8	3	5
321:	5	8	6	4	1	5	3	3
329:	5	2	2	8	7	6	4	6
337:	4	6	9	2	3	3	5	5
345:	3	8	4	7	2	7	8	3
353:	8	3	1	6	3	4	8	6
361:	3	6	3	3	8	4	8	6

369:	6	7	4	3	6	5	6	6

Sample Title: BLANK

Channel								
377:	4	11	3	5	4	5	3	3
385:	4	2	3	6	6	1	7	2
393:	3	3	5	3	1	5	5	7
401:	3	2	2	6	8	4	4	9
409:	3	3	2	4	3	3	3	6
417:	3	4	4	4	2	0	5	7
425:	2	1	1	2	5	3	7	1
433:	4	5	2	7	1	2	3	3
441:	4	4	2	5	4	1	2	4
449:	2	1	4	2	1	5	2	2
457:	4	1	1	5	1	1	2	3
465:	3	3	1	2	2	6	4	0
473:	3	2	3	3	2	7	6	4
481:	5	3	6	2	3	6	1	2
489:	1	2	1	5	2	2	3	1
497:	1	2	2	1	1	2	3	1
505:	3	2	1	7	1	12	17	7
513:	3	4	1	5	3	3	4	1
521:	2	7	4	1	2	3	1	7
529:	3	0	2	2	3	3	2	4
537:	4	1	4	5	3	3	3	1
545:	2	3	1	0	1	3	1	2
553:	2	2	4	0	7	2	1	4
561:	1	2	3	4	1	2	2	3
569:	2	9	3	0	8	4	3	2
577:	1	3	1	1	1	3	2	2
585:	2	3	1	1	2	3	1	4
593:	2	2	0	7	3	2	4	2
601:	1	4	0	2	1	4	1	7
609:	3	3	3	4	4	2	2	4
617:	1	3	1	2	1	0	3	1
625:	4	1	2	2	1	2	2	0
633:	6	1	3	2	1	8	0	4
641:	2	4	1	1	4	1	2	1
649:	2	1	4	2	2	1	2	4
657:	3	1	1	0	0	4	1	1
665:	0	6	1	2	1	3	0	4
673:	1	4	1	6	1	1	0	2
681:	2	1	3	4	1	1	1	0
689:	2	1	2	3	2	0	2	2
697:	4	3	2	2	2	1	0	2
705:	5	9	5	2	3	2	1	1
713:	2	2	1	1	0	2	0	0
721:	2	1	0	2	3	2	2	0
729:	1	1	3	1	1	3	3	1
737:	0	8	2	3	0	5	0	3
745:	0	1	0	2	2	3	2	1
753:	2	0	4	1	1	2	2	0
761:	2	0	1	1	3	7	1	3
769:	1	2	3	2	2	2	1	1
777:	0	2	1	3	2	0	1	0
785:	1	3	0	1	1	1	1	2
793:	0	1	1	1	4	1	2	1

801:	2	4	1	2	2	1	2	3

Sample Title: BLANK

Channel								
809:	3	3	3	0	2	1	0	0
817:	0	0	1	1	0	3	1	2
825:	1	2	0	2	0	2	1	0
833:	1	3	0	2	2	7	1	2
841:	1	3	3	2	3	3	0	3
849:	1	1	2	5	0	0	1	1
857:	1	1	3	0	1	3	2	1
865:	3	1	2	0	4	2	1	1
873:	3	0	1	2	0	2	2	2
881:	2	1	0	2	5	0	1	1
889:	1	4	1	3	2	1	0	1
897:	1	2	0	3	2	2	0	0
905:	3	3	2	0	0	3	1	0
913:	1	2	1	0	1	1	0	1
921:	0	1	1	1	1	2	1	0
929:	2	2	0	1	1	0	2	0
937:	2	0	0	1	1	1	2	1
945:	1	2	1	1	1	2	1	0
953:	1	2	0	1	0	0	0	2
961:	1	1	1	1	0	2	2	1
969:	1	1	3	2	2	2	4	0
977:	1	2	0	2	1	2	0	0
985:	2	1	1	2	1	0	0	1
993:	0	1	1	2	0	2	2	4
1001:	1	1	0	1	0	2	1	0
1009:	2	1	2	1	0	1	0	1
1017:	1	0	2	0	1	2	1	1
1025:	0	0	1	1	1	0	1	1
1033:	2	0	1	1	2	1	1	1
1041:	2	1	1	1	1	0	2	0
1049:	1	1	1	0	0	0	1	2
1057:	2	1	0	2	0	2	2	3
1065:	1	0	0	1	0	0	0	2
1073:	0	0	0	0	2	0	1	1
1081:	0	1	1	2	0	0	1	1
1089:	2	1	4	1	0	0	0	1
1097:	0	4	0	1	2	1	0	0
1105:	3	2	0	2	0	1	0	1
1113:	1	2	1	3	0	0	1	1
1121:	2	0	0	1	1	0	2	1
1129:	1	1	0	1	1	1	1	1
1137:	0	0	2	4	2	0	0	0
1145:	1	0	1	1	1	1	1	0
1153:	0	0	0	1	1	1	0	1
1161:	1	0	0	0	0	0	0	0
1169:	0	1	0	0	1	3	0	3
1177:	0	1	0	2	0	1	1	2
1185:	1	0	2	1	2	1	1	1
1193:	0	1	1	1	0	0	1	0
1201:	1	1	0	1	3	1	1	2
1209:	0	2	0	0	0	1	1	1
1217:	3	1	0	0	4	1	0	0
1225:	0	0	0	0	0	0	1	0

1233:	1	1	1	1	0	0	0	1

Sample Title: BLANK

Channel								
1241:	0	2	3	0	1	2	0	0
1249:	1	1	0	1	0	1	1	1
1257:	3	1	0	1	0	0	1	0
1265:	2	0	0	1	1	0	0	0
1273:	0	1	0	1	0	0	0	0
1281:	0	2	0	0	1	1	0	1
1289:	0	0	1	0	0	0	0	0
1297:	0	0	0	2	1	1	0	1
1305:	0	0	0	0	0	0	1	0
1313:	1	2	1	2	1	3	0	1
1321:	1	2	0	0	0	0	1	1
1329:	0	0	0	2	1	0	2	0
1337:	3	0	0	1	0	1	1	0
1345:	1	1	0	0	1	0	0	1
1353:	0	0	1	1	1	0	1	2
1361:	0	0	0	0	0	0	0	0
1369:	1	0	1	1	0	1	0	2
1377:	0	0	0	1	0	0	1	0
1385:	0	0	0	1	1	2	0	0
1393:	1	0	0	0	0	1	1	1
1401:	0	0	0	0	0	0	0	0
1409:	1	1	1	1	0	0	1	0
1417:	1	0	1	0	1	1	0	1
1425:	0	1	1	1	1	2	0	1
1433:	0	0	1	1	0	0	0	1
1441:	2	0	0	1	0	0	0	0
1449:	1	0	0	0	1	0	1	0
1457:	0	0	0	0	0	0	1	0
1465:	0	1	1	1	0	0	1	0
1473:	0	1	0	0	0	1	1	0
1481:	0	1	1	0	0	1	0	1
1489:	0	0	1	0	1	2	1	0
1497:	0	0	0	1	1	0	0	0
1505:	1	1	0	1	0	0	1	1
1513:	0	0	1	1	0	1	0	0
1521:	0	0	0	1	0	1	2	1
1529:	1	0	0	1	0	1	1	1
1537:	3	1	0	1	0	0	1	0
1545:	1	0	0	0	1	0	0	0
1553:	0	0	1	0	0	1	0	1
1561:	0	2	1	1	0	2	0	0
1569:	0	0	0	1	0	0	0	0
1577:	0	0	0	1	0	0	0	1
1585:	1	0	1	1	0	0	0	1
1593:	0	0	0	1	0	1	1	0
1601:	0	0	1	1	1	0	0	0
1609:	1	0	0	0	2	0	0	0
1617:	0	0	0	0	0	1	0	0
1625:	0	1	2	0	0	1	0	1
1633:	1	2	0	0	2	1	1	0
1641:	0	0	1	0	1	0	1	0
1649:	0	0	0	0	0	1	0	0
1657:	0	0	1	3	0	0	2	0

1665:	1	0	1	1	1	0	0	0

Sample Title: BLANK

Channel								
1673:	0	0	1	0	0	0	1	0
1681:	1	0	1	0	0	0	1	1
1689:	0	2	1	0	0	1	1	0
1697:	0	1	0	1	0	0	0	0
1705:	1	0	1	0	0	0	0	0
1713:	2	1	0	1	0	0	0	0
1721:	0	1	0	0	0	0	1	0
1729:	0	0	1	0	0	2	0	0
1737:	0	0	1	0	1	0	0	0
1745:	0	0	2	1	0	0	0	1
1753:	0	0	0	0	0	0	1	1
1761:	0	1	0	1	0	1	0	0
1769:	0	0	0	0	0	0	0	1
1777:	0	2	0	0	0	1	2	1
1785:	0	0	0	1	0	0	0	0
1793:	0	0	1	0	1	0	1	0
1801:	0	0	0	1	1	0	0	0
1809:	1	0	0	0	0	0	0	0
1817:	0	1	1	1	1	0	0	0
1825:	0	0	0	0	0	1	0	0
1833:	1	0	0	0	1	1	0	0
1841:	2	0	0	0	1	1	0	0
1849:	0	0	0	0	0	0	0	0
1857:	1	0	0	0	1	0	1	0
1865:	1	0	1	0	0	0	1	0
1873:	0	0	1	0	0	0	0	0
1881:	2	0	0	0	0	0	0	0
1889:	0	0	0	0	0	0	0	0
1897:	1	1	0	0	0	0	2	0
1905:	0	0	0	0	1	0	0	0
1913:	0	2	0	0	0	0	0	0
1921:	0	1	0	1	1	0	0	0
1929:	1	0	0	1	0	0	1	1
1937:	0	0	0	0	0	1	0	0
1945:	0	0	0	0	0	0	0	0
1953:	0	0	1	0	1	0	1	0
1961:	0	2	0	1	0	0	0	1
1969:	0	1	0	0	2	1	1	1
1977:	0	1	0	0	0	0	0	0
1985:	0	1	0	0	1	1	0	1
1993:	0	0	0	2	0	0	1	1
2001:	3	0	0	0	0	0	0	0
2009:	0	0	1	0	0	0	0	0
2017:	0	0	0	0	1	1	0	0
2025:	0	0	0	0	0	0	0	2
2033:	1	1	0	0	1	0	0	0
2041:	0	0	1	1	1	0	1	0
2049:	0	1	0	1	0	0	0	1
2057:	0	0	0	0	0	0	0	0
2065:	0	0	1	0	1	0	0	0
2073:	0	0	0	0	0	0	0	0
2081:	0	0	1	0	0	0	0	1
2089:	0	0	0	0	0	2	0	0

2097:	0	1	0	1	0	0	0	1

Sample Title: BLANK

Channel								
2105:	1	1	0	0	0	0	0	0
2113:	0	0	0	1	0	0	2	0
2121:	0	0	0	0	0	1	0	0
2129:	0	1	0	0	1	1	0	0
2137:	0	1	0	0	0	0	0	0
2145:	0	0	0	0	0	1	0	0
2153:	1	0	0	0	1	0	0	0
2161:	0	0	0	1	0	0	0	0
2169:	0	1	1	0	0	0	0	0
2177:	2	0	0	1	0	0	1	0
2185:	0	0	0	0	0	0	0	0
2193:	1	0	0	0	0	1	0	0
2201:	1	0	0	0	0	0	1	1
2209:	0	0	1	1	0	0	0	1
2217:	0	0	1	0	0	1	0	0
2225:	0	0	1	0	0	0	0	0
2233:	0	0	0	0	0	0	0	0
2241:	0	1	0	1	0	0	0	0
2249:	1	0	0	1	0	0	0	0
2257:	0	1	0	0	0	1	0	0
2265:	1	0	0	0	1	0	0	0
2273:	0	0	0	1	0	0	1	0
2281:	0	0	1	0	0	0	0	0
2289:	0	0	0	0	0	0	0	0
2297:	0	0	0	0	0	0	0	0
2305:	0	0	0	0	0	0	0	1
2313:	0	0	0	0	0	0	1	1
2321:	0	0	0	1	1	0	0	0
2329:	0	0	0	1	0	0	0	0
2337:	0	0	0	1	0	0	0	0
2345:	0	0	0	0	0	0	0	1
2353:	1	0	0	0	0	0	0	0
2361:	1	0	0	0	1	0	0	1
2369:	1	0	0	0	0	0	0	0
2377:	1	0	0	0	0	0	0	0
2385:	1	0	0	0	0	0	0	0
2393:	0	1	0	0	0	1	0	0
2401:	0	0	0	1	0	0	0	0
2409:	0	0	1	0	0	0	1	0
2417:	0	0	0	0	0	1	0	0
2425:	0	0	0	0	0	0	0	0
2433:	0	1	0	1	0	1	0	0
2441:	0	0	0	0	0	0	0	0
2449:	0	0	0	0	0	0	0	0
2457:	0	0	0	0	1	0	1	0
2465:	0	0	1	0	1	1	0	0
2473:	1	0	2	0	0	0	0	1
2481:	0	0	0	0	1	0	0	0
2489:	1	0	0	0	0	0	1	1
2497:	0	1	0	0	0	0	0	1
2505:	0	0	0	0	0	0	0	0
2513:	0	1	0	0	1	0	1	0
2521:	0	1	0	1	0	0	0	0

2529:	1	0	0	0	0	0	0	0

Sample Title: BLANK

Channel								
2537:	0	1	0	0	0	0	0	0
2545:	0	1	1	0	0	0	0	0
2553:	0	0	2	0	0	0	1	0
2561:	0	1	0	0	0	0	1	1
2569:	0	0	0	0	0	0	0	0
2577:	0	0	1	0	0	1	0	0
2585:	0	0	0	0	1	0	0	1
2593:	0	0	0	0	0	0	0	0
2601:	0	1	0	0	1	0	1	0
2609:	1	0	1	1	1	0	0	2
2617:	0	0	0	0	0	0	0	0
2625:	0	0	0	0	0	0	1	0
2633:	0	0	0	1	1	0	0	0
2641:	0	0	1	0	0	0	0	0
2649:	0	0	0	1	0	0	0	0
2657:	0	0	0	1	0	0	0	1
2665:	0	0	0	0	0	0	0	0
2673:	0	1	0	0	1	0	0	0
2681:	0	0	0	1	0	0	0	0
2689:	0	0	0	0	1	0	0	0
2697:	1	0	0	0	1	0	0	0
2705:	1	0	0	0	0	1	1	1
2713:	0	0	0	0	0	0	0	2
2721:	0	0	0	0	0	0	0	0
2729:	0	1	0	1	0	0	0	0
2737:	0	0	0	0	0	0	0	0
2745:	1	0	0	0	0	0	1	1
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	1	0	1
2769:	0	0	0	0	1	0	0	0
2777:	0	2	0	0	1	1	0	0
2785:	0	0	0	0	0	0	0	0
2793:	1	1	0	0	0	0	1	1
2801:	0	0	1	0	0	0	0	0
2809:	0	0	0	1	0	0	1	0
2817:	1	0	0	0	0	1	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	1	1	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	1	1	0	0
2857:	0	1	0	0	1	1	0	0
2865:	0	0	0	1	0	0	0	1
2873:	0	0	0	1	1	0	1	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	1
2897:	0	0	0	0	0	0	0	1
2905:	0	0	0	1	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	1
2929:	0	0	0	0	0	0	1	0
2937:	0	0	0	0	1	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	1	0	0

2961:	0	0	1	0	0	1	0	1

Sample Title: BLANK

Channel								
2969:	0	0	0	0	1	0	1	0
2977:	0	0	0	0	1	0	0	1
2985:	0	0	0	0	1	1	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	0	0	1	0	0	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	1	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	1	0	2	0	1	0	0
3073:	0	1	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	1
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	1	0	0	0	1
3105:	0	0	2	0	0	0	1	0
3113:	0	0	0	0	0	0	0	0
3121:	0	1	0	0	0	0	0	0
3129:	0	0	2	0	0	0	0	0
3137:	0	0	0	0	1	0	0	0
3145:	1	1	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	1	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	1	0	0
3193:	0	0	0	0	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	1	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	1	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	1	0	1	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	1	0	0
3313:	0	0	0	0	1	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	1	0	1	0	0	0	0
3353:	1	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	1	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	0

3393:	0	0	0	0	0	0	1	0

Sample Title: BLANK

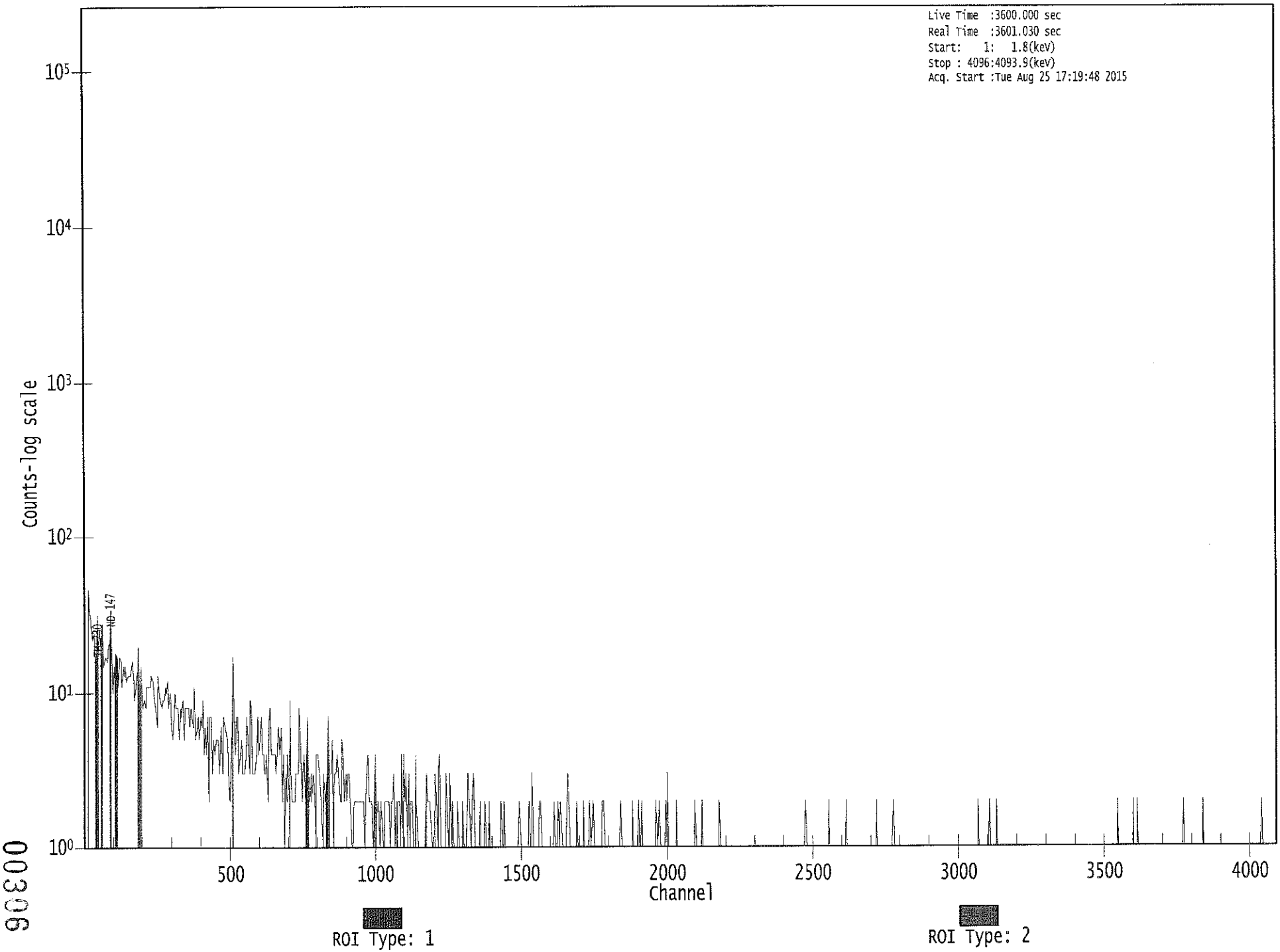
Channel								
3401:	0	0	0	0	0	0	1	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	1	0	0	0	0
3425:	0	0	0	0	0	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	1	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	1	0	0	0	1	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	1	0	0	1	0	0
3497:	0	0	0	1	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	1	0	0	0	0	0	0
3545:	0	2	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	1	0	0	0	0	0	0	1
3569:	0	0	1	1	1	0	1	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	2
3601:	0	0	0	0	1	0	0	0
3609:	0	0	0	0	2	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	0	0	0	0	1
3649:	0	0	0	0	0	0	0	0
3657:	1	0	0	1	0	0	0	0
3665:	0	1	0	0	0	0	0	0
3673:	0	0	0	0	1	0	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	1	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	1	0
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	1	0	0	0
3737:	1	0	0	0	0	0	0	1
3745:	0	0	0	0	0	1	0	1
3753:	0	0	0	0	0	0	0	0
3761:	1	0	0	0	0	0	0	1
3769:	0	0	0	2	0	0	0	0
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	1	0	0	0	0	0

3825:	0	0	0	0	1	0	0	0

Sample Title: BLANK

Channel								
3833:	0	0	0	0	0	2	0	1
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	1	0	1	0	0	0	0	1
3865:	1	0	1	0	0	1	0	1
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	1	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	1
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	1
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	1	0	1	0	0	1
4033:	0	0	0	0	1	0	0	0
4041:	2	0	0	0	0	0	0	0
4049:	1	0	0	0	1	0	0	1
4057:	1	0	0	0	0	0	0	0
4065:	0	0	1	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	1	0	0	0	1	0	0

0000026417.CNF



003009

KB 8/26/15

Apex-Gamma

Analysis Report for 1508002-03
FEEBRIS1D-8 075-076

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-03
Sample Description	: FEEBRIS1D-8 075-076
Sample Type	: SOIL
Sample Size	: 3.257E+02 grams
Facility	: Countroom
Sample Taken On	: 7/29/2015 10:34:12AM
Acquisition Started	: 8/25/2015 3:24:14PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26402

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 4:24:19PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.33	46.68	0.0000	0.00
2	63.39	63.74	0.0000	0.00
3	67.79	68.13	0.0000	0.00
4	72.79	73.13	0.0000	0.00
5	77.66	78.00	0.0000	0.00
6	87.92	88.26	0.0000	0.00
7	186.18	186.48	0.0000	0.00
8	238.82	239.11	0.0000	0.00
9	242.06	242.35	0.0000	0.00
10	269.91	270.18	0.0000	0.00
11	295.23	295.50	0.0000	0.00
12	338.13	338.38	0.0000	0.00
13	352.03	352.27	0.0000	0.00
14	373.90	374.14	0.0000	0.00
15	388.33	388.57	0.0000	0.00
16	398.84	399.08	0.0000	0.00
17	462.66	462.87	0.0000	0.00
18	510.40	510.60	0.0000	0.00
19	579.92	580.09	0.0000	0.00
20	583.13	583.30	0.0000	0.00
21	609.42	609.58	0.0000	0.00
22	664.80	664.95	0.0000	0.00
23	673.40	673.53	0.0000	0.00
24	768.75	768.86	0.0000	0.00
25	807.74	807.83	0.0000	0.00
26	861.35	861.42	0.0000	0.00
27	911.11	911.17	0.0000	0.00
28	933.87	933.92	0.0000	0.00
29	969.88	969.92	0.0000	0.00
30	1120.46	1120.44	0.0000	0.00
31	1155.40	1155.37	0.0000	0.00
32	1185.96	1185.92	0.0000	0.00
33	1207.92	1207.87	0.0000	0.00
34	1237.78	1237.72	0.0000	0.00
35	1297.90	1297.82	0.0000	0.00
36	1315.41	1315.32	0.0000	0.00
37	1377.11	1376.99	0.0000	0.00
38	1405.12	1405.00	0.0000	0.00
39	1415.13	1415.01	0.0000	0.00
40	1429.22	1429.09	0.0000	0.00
41	1460.90	1460.76	0.0000	0.00
42	1661.19	1660.97	0.0000	0.00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1684.53	1684.30	0.0000	0.00
44	1728.24	1728.00	0.0000	0.00
45	1730.76	1730.52	0.0000	0.00
46	1744.47	1744.22	0.0000	0.00
47	1764.44	1764.19	0.0000	0.00
48	1816.39	1816.12	0.0000	0.00
49	1823.07	1822.80	0.0000	0.00
50	1847.48	1847.20	0.0000	0.00
51	1856.29	1856.00	0.0000	0.00
52	1955.70	1955.38	0.0000	0.00
53	2010.21	2009.86	0.0000	0.00
54	2119.15	2118.76	0.0000	0.00
55	2204.04	2203.62	0.0000	0.00
56	2520.75	2520.20	0.0000	0.00
57	2614.13	2613.55	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.33	43	50	46.68	1.46E+02	81.88	1.03E+03	1.21
	2	63.39	60	66	63.74	2.07E+02	83.67	1.13E+03	1.59
M	3	67.79	67	81	68.13	1.33E+02	37.82	3.58E+02	1.45
m	4	72.79	67	81	73.13	7.13E+01	58.82	7.55E+02	1.46
m	5	77.66	67	81	78.00	6.72E+02	85.28	8.55E+02	1.33
	6	87.92	86	91	88.26	1.99E+02	82.72	1.21E+03	1.44
	7	186.18	183	189	186.48	3.78E+02	72.67	6.85E+02	2.00
M	8	238.82	237	247	239.11	3.10E+02	48.87	3.15E+02	1.41
m	9	242.06	237	247	242.35	4.28E+02	58.59	3.16E+02	1.82
	10	269.91	267	273	270.18	8.50E+01	50.44	4.04E+02	2.06
	11	295.23	291	299	295.50	6.80E+02	77.82	5.13E+02	1.89
	12	338.13	335	340	338.38	6.50E+01	38.21	2.40E+02	1.55
	13	352.03	347	356	352.27	1.18E+03	86.10	3.85E+02	1.66
	14	373.90	372	377	374.14	2.57E+01	30.51	1.67E+02	1.39
	15	388.33	384	392	388.57	5.80E+01	43.76	2.54E+02	5.43
	16	398.84	393	406	399.08	7.59E+01	66.37	4.58E+02	9.23
	17	462.66	459	466	462.87	5.86E+01	33.47	1.47E+02	3.36
	18	510.40	505	516	510.60	1.71E+02	47.58	1.96E+02	2.11
M	19	579.92	578	588	580.09	2.70E+01	18.00	5.01E+01	2.04
m	20	583.13	578	588	583.30	9.62E+01	30.40	8.38E+01	2.16
	21	609.42	604	615	609.58	8.84E+02	75.45	2.68E+02	1.94
	22	664.80	661	671	664.95	3.20E+01	38.66	1.84E+02	2.07
	23	673.40	671	676	673.53	1.72E+01	21.91	7.97E+01	2.64
	24	768.75	765	773	768.86	6.76E+01	33.40	1.29E+02	2.02
	25	807.74	800	816	807.83	6.34E+01	38.67	1.15E+02	9.99
	26	861.35	857	866	861.42	2.69E+01	25.69	7.62E+01	2.77
	27	911.11	908	916	911.17	8.80E+01	30.28	9.00E+01	2.15
	28	933.87	930	939	933.92	3.62E+01	30.30	1.12E+02	2.69
	29	969.88	967	976	969.92	4.73E+01	31.03	9.94E+01	2.20
	30	1120.46	1115	1125	1120.44	1.97E+02	37.49	8.24E+01	1.93
	31	1155.40	1152	1159	1155.37	2.18E+01	23.32	7.65E+01	1.90
	32	1185.96	1177	1195	1185.92	3.41E+01	37.99	1.12E+02	10.13
	33	1207.92	1203	1212	1207.87	2.63E+01	25.77	7.93E+01	1.68
	34	1237.78	1233	1242	1237.72	5.59E+01	31.00	1.06E+02	2.07
	35	1297.90	1294	1303	1297.82	2.47E+01	18.63	3.67E+01	3.62
	36	1315.41	1311	1320	1315.32	1.54E+01	20.35	5.11E+01	3.63
	37	1377.11	1365	1386	1376.99	7.00E+01	41.35	1.10E+02	2.25
M	38	1405.12	1395	1419	1405.00	9.66E+00	15.93	2.50E+01	2.17
m	39	1415.13	1395	1419	1415.01	1.14E+01	17.41	2.28E+01	3.86
	40	1429.22	1425	1434	1429.09	1.70E+01	17.64	3.40E+01	6.04

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1460.90	1456 -	1466	1460.76	2.53E+02	36.52	4.08E+01	2.51
	42	1661.19	1656 -	1665	1660.97	1.40E+01	16.31	3.00E+01	1.74
	43	1684.53	1680 -	1687	1684.30	1.04E+01	9.38	7.29E+00	2.76
M	44	1728.24	1723 -	1733	1728.00	1.96E+01	16.30	2.52E+01	2.29
m	45	1730.76	1723 -	1733	1730.52	1.87E+01	16.85	2.47E+01	2.78
	46	1744.47	1739 -	1751	1744.22	1.98E+01	15.71	2.04E+01	9.32
	47	1764.44	1760 -	1768	1764.19	1.39E+02	26.48	2.13E+01	2.00
	48	1816.39	1813 -	1819	1816.12	9.50E+00	7.50	3.00E+00	3.22
	49	1823.07	1820 -	1825	1822.80	5.43E+00	6.08	3.14E+00	1.82
	50	1847.48	1843 -	1851	1847.20	2.29E+01	10.97	4.12E+00	2.12
	51	1856.29	1853 -	1858	1856.00	6.00E+00	4.90	0.00E+00	1.33
	52	1955.70	1952 -	1958	1955.38	8.00E+00	5.66	0.00E+00	1.66
	53	2010.21	2007 -	2012	2009.86	7.00E+00	5.29	0.00E+00	2.98
	54	2119.15	2114 -	2123	2118.76	1.75E+01	10.25	5.00E+00	1.40
	55	2204.04	2200 -	2207	2203.62	3.50E+01	13.71	8.00E+00	2.18
	56	2520.75	2517 -	2522	2520.20	5.00E+00	4.47	0.00E+00	2.31
	57	2614.13	2609 -	2617	2613.55	4.00E+01	12.65	0.00E+00	1.42

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.33	43 -	50	1.46E+02	81.88	1.03E+03	6.43E+01
	2	63.39	60 -	66	2.07E+02	83.67	1.13E+03	6.46E+01
M	3	67.79	67 -	81	1.33E+02	37.82	3.58E+02	3.11E+01
m	4	72.79	67 -	81	7.13E+01	58.82	7.55E+02	4.52E+01
m	5	77.66	67 -	81	6.72E+02	85.28	8.55E+02	4.81E+01
	6	87.92	86 -	91	1.99E+02	82.72	1.21E+03	6.39E+01
	7	186.18	183 -	189	3.78E+02	72.67	6.85E+02	5.05E+01
M	8	238.82	237 -	247	3.10E+02	48.87	3.15E+02	2.92E+01
m	9	242.06	237 -	247	4.28E+02	58.59	3.16E+02	2.92E+01
	10	269.91	267 -	273	8.50E+01	50.44	4.04E+02	3.86E+01
	11	295.23	291 -	299	6.80E+02	77.82	5.13E+02	4.75E+01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	12	338.13	335 -	340	6.50E+01	38.21	2.40E+02	2.85E+01
	13	352.03	347 -	356	1.18E+03	86.10	3.85E+02	4.27E+01
	14	373.90	372 -	377	2.57E+01	30.51	1.67E+02	2.37E+01
	15	388.33	384 -	392	5.80E+01	43.76	2.54E+02	3.37E+01
	16	398.84	393 -	406	7.59E+01	66.37	4.58E+02	5.26E+01
	17	462.66	459 -	466	5.86E+01	33.47	1.47E+02	2.45E+01
	18	510.40	505 -	516	1.71E+02	47.58	1.96E+02	3.27E+01
M	19	579.92	578 -	588	2.70E+01	18.00	5.01E+01	1.16E+01
m	20	583.13	578 -	588	9.62E+01	30.40	8.38E+01	1.50E+01
	21	609.42	604 -	615	8.84E+02	75.45	2.68E+02	3.82E+01
	22	664.80	661 -	671	3.20E+01	38.66	1.84E+02	3.04E+01
	23	673.40	671 -	676	1.72E+01	21.91	7.97E+01	1.67E+01
	24	768.75	765 -	773	6.76E+01	33.40	1.29E+02	2.39E+01
	25	807.74	800 -	816	6.34E+01	38.67	1.15E+02	2.90E+01
	26	861.35	857 -	866	2.69E+01	25.69	7.62E+01	1.93E+01
	27	911.11	908 -	916	8.80E+01	30.28	9.00E+01	1.95E+01
	28	933.87	930 -	939	3.62E+01	30.30	1.12E+02	2.29E+01
	29	969.88	967 -	976	4.73E+01	31.03	9.94E+01	2.29E+01
	30	1120.46	1115 -	1125	1.97E+02	37.49	8.24E+01	2.04E+01
	31	1155.40	1152 -	1159	2.18E+01	23.32	7.65E+01	1.76E+01
	32	1185.96	1177 -	1195	3.41E+01	37.99	1.12E+02	2.97E+01
	33	1207.92	1203 -	1212	2.63E+01	25.77	7.93E+01	1.94E+01
	34	1237.78	1233 -	1242	5.59E+01	31.00	1.06E+02	2.23E+01
	35	1297.90	1294 -	1303	2.47E+01	18.63	3.67E+01	1.30E+01
	36	1315.41	1311 -	1320	1.54E+01	20.35	5.11E+01	1.54E+01
	37	1377.11	1365 -	1386	7.00E+01	41.35	1.10E+02	1.04E+01
M	38	1405.12	1395 -	1419	9.66E+00	15.93	2.50E+01	8.21E+00
m	39	1415.13	1395 -	1419	1.14E+01	17.41	2.28E+01	7.85E+00
	40	1429.22	1425 -	1434	1.70E+01	17.64	3.40E+01	1.28E+01
	41	1460.90	1456 -	1466	2.53E+02	36.52	4.08E+01	1.48E+01
	42	1661.19	1656 -	1665	1.40E+01	16.31	3.00E+01	1.19E+01
	43	1684.53	1680 -	1687	1.04E+01	9.38	7.29E+00	5.61E+00
M	44	1728.24	1723 -	1733	1.96E+01	16.30	2.52E+01	8.25E+00
m	45	1730.76	1723 -	1733	1.87E+01	16.85	2.47E+01	8.17E+00
	46	1744.47	1739 -	1751	1.98E+01	15.71	2.04E+01	1.06E+01
	47	1764.44	1760 -	1768	1.39E+02	26.48	2.13E+01	9.86E+00
	48	1816.39	1813 -	1819	9.50E+00	7.50	3.00E+00	3.51E+00
	49	1823.07	1820 -	1825	5.43E+00	6.08	3.14E+00	3.21E+00
	50	1847.48	1843 -	1851	2.29E+01	10.97	4.12E+00	4.39E+00
	51	1856.29	1853 -	1858	6.00E+00	4.90	0.00E+00	0.00E+00
	52	1955.70	1952 -	1958	8.00E+00	5.66	0.00E+00	0.00E+00
	53	2010.21	2007 -	2012	7.00E+00	5.29	0.00E+00	0.00E+00
	54	2119.15	2114 -	2123	1.75E+01	10.25	5.00E+00	4.86E+00
	55	2204.04	2200 -	2207	3.50E+01	13.71	8.00E+00	5.70E+00
	56	2520.75	2517 -	2522	5.00E+00	4.47	0.00E+00	0.00E+00
	57	2614.13	2609 -	2617	4.00E+01	12.65	0.00E+00	0.00E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.33	43 -	50	46.68	1.46E+02	81.88	1.03E+03	PB-210
	2	63.39	60 -	66	63.74	2.07E+02	83.67	1.13E+03	TH-234
									TH-230
M	3	67.79	67 -	81	68.13	1.33E+02	37.82	3.58E+02	TA-182
									TI-44
									TH-230
m	4	72.79	67 -	81	73.13	7.13E+01	58.82	7.55E+02	PM-145
m	5	77.66	67 -	81	78.00	6.72E+02	85.28	8.55E+02	TI-44
	6	87.92	86 -	91	88.26	1.99E+02	82.72	1.21E+03	CD-109
									SN-126
									LU-176
	7	186.18	183 -	189	186.48	3.78E+02	72.67	6.85E+02	RA-226
M	8	238.82	237 -	247	239.11	3.10E+02	48.87	3.15E+02	PB-212
m	9	242.06	237 -	247	242.35	4.28E+02	58.59	3.16E+02	.....
	10	269.91	267 -	273	270.18	8.50E+01	50.44	4.04E+02	.....
	11	295.23	291 -	299	295.50	6.80E+02	77.82	5.13E+02	PB-214
	12	338.13	335 -	340	338.38	6.50E+01	38.21	2.40E+02	AC-228
	13	352.03	347 -	356	352.27	1.18E+03	86.10	3.85E+02	PB-214
	14	373.90	372 -	377	374.14	2.57E+01	30.51	1.67E+02	.....
	15	388.33	384 -	392	388.57	5.80E+01	43.76	2.54E+02	.....
	16	398.84	393 -	406	399.08	7.59E+01	66.37	4.58E+02	.....
	17	462.66	459 -	466	462.87	5.86E+01	33.47	1.47E+02	SB-125
	18	510.40	505 -	516	510.60	1.71E+02	47.58	1.96E+02	.....
M	19	579.92	578 -	588	580.09	2.70E+01	18.00	5.01E+01	.....
m	20	583.13	578 -	588	583.30	9.62E+01	30.40	8.38E+01	TL-208
	21	609.42	604 -	615	609.58	8.84E+02	75.45	2.68E+02	BI-214
	22	664.80	661 -	671	664.95	3.20E+01	38.66	1.84E+02	CE-143
	23	673.40	671 -	676	673.53	1.72E+01	21.91	7.97E+01	.....
	24	768.75	765 -	773	768.86	6.76E+01	33.40	1.29E+02	.....
	25	807.74	800 -	816	807.83	6.34E+01	38.67	1.15E+02	.....

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	26	861.35	857 -	866	861.42	2.69E+01	25.69	7.62E+01	TL-208
	27	911.11	908 -	916	911.17	8.80E+01	30.28	9.00E+01	AC-228
	28	933.87	930 -	939	933.92	3.62E+01	30.30	1.12E+02	.....
	29	969.88	967 -	976	969.92	4.73E+01	31.03	9.94E+01	AC-228
	30	1120.46	1115 -	1125	1120.44	1.97E+02	37.49	8.24E+01	SC-46 BI-214 TA-182
	31	1155.40	1152 -	1159	1155.37	2.18E+01	23.32	7.65E+01	.....
	32	1185.96	1177 -	1195	1185.92	3.41E+01	37.99	1.12E+02	.....
	33	1207.92	1203 -	1212	1207.87	2.63E+01	25.77	7.93E+01	.....
	34	1237.78	1233 -	1242	1237.72	5.59E+01	31.00	1.06E+02	CO-56
	35	1297.90	1294 -	1303	1297.82	2.47E+01	18.63	3.67E+01	.....
	36	1315.41	1311 -	1320	1315.32	1.54E+01	20.35	5.11E+01	.....
	37	1377.11	1365 -	1386	1376.99	7.00E+01	41.35	1.10E+02	.....
M	38	1405.12	1395 -	1419	1405.00	9.66E+00	15.93	2.50E+01	.....
m	39	1415.13	1395 -	1419	1415.01	1.14E+01	17.41	2.28E+01	.....
	40	1429.22	1425 -	1434	1429.09	1.70E+01	17.64	3.40E+01	.....
	41	1460.90	1456 -	1466	1460.76	2.53E+02	36.52	4.08E+01	K-40
	42	1661.19	1656 -	1665	1660.97	1.40E+01	16.31	3.00E+01	.....
	43	1684.53	1680 -	1687	1684.30	1.04E+01	9.38	7.29E+00	.....
M	44	1728.24	1723 -	1733	1728.00	1.96E+01	16.30	2.52E+01	.....
m	45	1730.76	1723 -	1733	1730.52	1.87E+01	16.85	2.47E+01	.....
	46	1744.47	1739 -	1751	1744.22	1.98E+01	15.71	2.04E+01	.....
	47	1764.44	1760 -	1768	1764.19	1.39E+02	26.48	2.13E+01	BI-214
	48	1816.39	1813 -	1819	1816.12	9.50E+00	7.50	3.00E+00	.....
	49	1823.07	1820 -	1825	1822.80	5.43E+00	6.08	3.14E+00	.....
	50	1847.48	1843 -	1851	1847.20	2.29E+01	10.97	4.12E+00	.....
	51	1856.29	1853 -	1858	1856.00	6.00E+00	4.90	0.00E+00	.....
	52	1955.70	1952 -	1958	1955.38	8.00E+00	5.66	0.00E+00	.....
	53	2010.21	2007 -	2012	2009.86	7.00E+00	5.29	0.00E+00	.....
	54	2119.15	2114 -	2123	2118.76	1.75E+01	10.25	5.00E+00	.....
	55	2204.04	2200 -	2207	2203.62	3.50E+01	13.71	8.00E+00	BI-214
	56	2520.75	2517 -	2522	2520.20	5.00E+00	4.47	0.00E+00	.....
	57	2614.13	2609 -	2617	2613.55	4.00E+01	12.65	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.33	1.46E+02	81.88	1.67E-02	1.78E-03
	2	63.39	2.07E+02	83.67	2.49E-02	1.91E-03
M	3	67.79	1.33E+02	37.82	2.61E-02	2.06E-03
m	4	72.79	7.13E+01	58.82	2.71E-02	2.23E-03
m	5	77.66	6.72E+02	85.28	2.78E-02	2.39E-03
	6	87.92	1.99E+02	82.72	2.85E-02	2.74E-03
	7	186.18	3.78E+02	72.67	2.24E-02	2.03E-03
M	8	238.82	3.10E+02	48.87	1.92E-02	1.64E-03
m	9	242.06	4.28E+02	58.59	1.90E-02	1.61E-03
	10	269.91	8.50E+01	50.44	1.77E-02	1.41E-03
	11	295.23	6.80E+02	77.82	1.67E-02	1.31E-03
	12	338.13	6.50E+01	38.21	1.52E-02	1.22E-03
	13	352.03	1.18E+03	86.10	1.48E-02	1.19E-03
	14	373.90	2.57E+01	30.51	1.41E-02	1.15E-03
	15	388.33	5.80E+01	43.76	1.38E-02	1.12E-03
	16	398.84	7.59E+01	66.37	1.35E-02	1.11E-03
	17	462.66	5.86E+01	33.47	1.21E-02	1.04E-03
	18	510.40	1.71E+02	47.58	1.13E-02	9.91E-04
M	19	579.92	2.70E+01	18.00	1.02E-02	9.19E-04
m	20	583.13	9.62E+01	30.40	1.02E-02	9.16E-04
	21	609.42	8.84E+02	75.45	9.83E-03	8.88E-04
	22	664.80	3.20E+01	38.66	9.18E-03	8.31E-04
	23	673.40	1.72E+01	21.91	9.09E-03	8.24E-04
	24	768.75	6.76E+01	33.40	8.19E-03	7.38E-04
	25	807.74	6.34E+01	38.67	7.87E-03	7.03E-04
	26	861.35	2.69E+01	25.69	7.48E-03	6.55E-04
	27	911.11	8.80E+01	30.28	7.15E-03	6.16E-04
	28	933.87	3.62E+01	30.30	7.01E-03	6.04E-04
	29	969.88	4.73E+01	31.03	6.80E-03	5.85E-04
	30	1120.46	1.97E+02	37.49	6.07E-03	5.07E-04
	31	1155.40	2.18E+01	23.32	5.92E-03	4.88E-04
	32	1185.96	3.41E+01	37.99	5.80E-03	4.77E-04
	33	1207.92	2.63E+01	25.77	5.72E-03	4.73E-04
	34	1237.78	5.59E+01	31.00	5.62E-03	4.68E-04
	35	1297.90	2.47E+01	18.63	5.42E-03	4.57E-04
	36	1315.41	1.54E+01	20.35	5.36E-03	4.54E-04
	37	1377.11	7.00E+01	41.35	5.19E-03	4.40E-04
M	38	1405.12	9.66E+00	15.93	5.11E-03	4.33E-04
m	39	1415.13	1.14E+01	17.41	5.08E-03	4.31E-04
	40	1429.22	1.70E+01	17.64	5.05E-03	4.27E-04
	41	1460.90	2.53E+02	36.52	4.97E-03	4.19E-04
	42	1661.19	1.40E+01	16.31	4.56E-03	3.69E-04
	43	1684.53	1.04E+01	9.38	4.52E-03	3.64E-04
M	44	1728.24	1.96E+01	16.30	4.45E-03	3.53E-04
m	45	1730.76	1.87E+01	16.85	4.45E-03	3.52E-04
	46	1744.47	1.98E+01	15.71	4.43E-03	3.49E-04
	47	1764.44	1.39E+02	26.48	4.40E-03	3.44E-04
	48	1816.39	9.50E+00	7.50	4.32E-03	3.31E-04
	49	1823.07	5.43E+00	6.08	4.31E-03	3.29E-04
	50	1847.48	2.29E+01	10.97	4.28E-03	3.26E-04
	51	1856.29	6.00E+00	4.90	4.27E-03	3.26E-04
	52	1955.70	8.00E+00	5.66	4.16E-03	3.26E-04
	53	2010.21	7.00E+00	5.29	4.10E-03	3.26E-04

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
54	2119.15	1.75E+01	10.25	4.01E-03	3.26E-04
55	2204.04	3.50E+01	13.71	3.95E-03	3.26E-04
56	2520.75	5.00E+00	4.47	3.81E-03	3.26E-04
57	2614.13	4.00E+01	12.65	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.33	1.46E+02	81.88	4.02E+01	8.43E+00	1.06E+02	8.23E+01
	2	63.39	2.07E+02	83.67	9.99E+01	2.42E+01	1.07E+02	8.71E+01
M	3	67.79	1.33E+02	37.82			1.33E+02	3.78E+01
m	4	72.79	7.13E+01	58.82			7.13E+01	5.88E+01
m	5	77.66	6.72E+02	85.28	1.60E+01	8.83E+00	6.56E+02	8.57E+01
	6	87.92	1.99E+02	82.72			1.99E+02	8.27E+01
	7	186.18	3.78E+02	72.67	6.47E+01	7.53E+00	3.13E+02	7.31E+01
M	8	238.82	3.10E+02	48.87	1.73E+01	6.30E+00	2.93E+02	4.93E+01
m	9	242.06	4.28E+02	58.59			4.28E+02	5.86E+01
	10	269.91	8.50E+01	50.44			8.50E+01	5.04E+01
	11	295.23	6.80E+02	77.82	0.00E+00	0.00E+00	6.80E+02	7.78E+01
	12	338.13	6.50E+01	38.21			6.50E+01	3.82E+01
	13	352.03	1.18E+03	86.10	9.78E+00	4.40E+00	1.17E+03	8.62E+01
	14	373.90	2.57E+01	30.51			2.57E+01	3.05E+01
	15	388.33	5.80E+01	43.76			5.80E+01	4.38E+01
	16	398.84	7.59E+01	66.37			7.59E+01	6.64E+01
	17	462.66	5.86E+01	33.47			5.86E+01	3.35E+01
	18	510.40	1.71E+02	47.58	7.82E+01	5.46E+00	9.27E+01	4.79E+01
M	19	579.92	2.70E+01	18.00			2.70E+01	1.80E+01
m	20	583.13	9.62E+01	30.40	4.53E+00	3.34E+00	9.16E+01	3.06E+01
	21	609.42	8.84E+02	75.45	8.81E+00	3.15E+00	8.75E+02	7.55E+01
	22	664.80	3.20E+01	38.66			3.20E+01	3.87E+01
	23	673.40	1.72E+01	21.91			1.72E+01	2.19E+01
	24	768.75	6.76E+01	33.40			6.76E+01	3.34E+01
	25	807.74	6.34E+01	38.67			6.34E+01	3.87E+01
	26	861.35	2.69E+01	25.69			2.69E+01	2.57E+01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	27	911.11	8.80E+01	30.28	4.29E+00	2.56E+00	8.37E+01	3.04E+01
	28	933.87	3.62E+01	30.30			3.62E+01	3.03E+01
	29	969.88	4.73E+01	31.03			4.73E+01	3.10E+01
	30	1120.46	1.97E+02	37.49			1.97E+02	3.75E+01
	31	1155.40	2.18E+01	23.32			2.18E+01	2.33E+01
	32	1185.96	3.41E+01	37.99			3.41E+01	3.80E+01
	33	1207.92	2.63E+01	25.77			2.63E+01	2.58E+01
	34	1237.78	5.59E+01	31.00			5.59E+01	3.10E+01
	35	1297.90	2.47E+01	18.63			2.47E+01	1.86E+01
	36	1315.41	1.54E+01	20.35			1.54E+01	2.03E+01
	37	1377.11	7.00E+01	41.35			7.00E+01	4.14E+01
M	38	1405.12	9.66E+00	15.93			9.66E+00	1.59E+01
m	39	1415.13	1.14E+01	17.41			1.14E+01	1.74E+01
	40	1429.22	1.70E+01	17.64			1.70E+01	1.76E+01
	41	1460.90	2.53E+02	36.52	5.85E+00	2.19E+00	2.47E+02	3.66E+01
	42	1661.19	1.40E+01	16.31			1.40E+01	1.63E+01
	43	1684.53	1.04E+01	9.38			1.04E+01	9.38E+00
M	44	1728.24	1.96E+01	16.30			1.96E+01	1.63E+01
m	45	1730.76	1.87E+01	16.85			1.87E+01	1.69E+01
	46	1744.47	1.98E+01	15.71			1.98E+01	1.57E+01
	47	1764.44	1.39E+02	26.48			1.39E+02	2.65E+01
	48	1816.39	9.50E+00	7.50			9.50E+00	7.50E+00
	49	1823.07	5.43E+00	6.08			5.43E+00	6.08E+00
	50	1847.48	2.29E+01	10.97			2.29E+01	1.10E+01
	51	1856.29	6.00E+00	4.90			6.00E+00	4.90E+00
	52	1955.70	8.00E+00	5.66			8.00E+00	5.66E+00
	53	2010.21	7.00E+00	5.29			7.00E+00	5.29E+00
	54	2119.15	1.75E+01	10.25			1.75E+01	1.02E+01
	55	2204.04	3.50E+01	13.71	1.36E-01	1.12E+00	3.49E+01	1.38E+01
	56	2520.75	5.00E+00	4.47			5.00E+00	4.47E+00
	57	2614.13	4.00E+01	12.65	5.15E+00	1.50E+00	3.49E+01	1.27E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 4:24:19PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.33	1.46E+02	81.88	4.02E+01	8.43E+00	1.06E+02	8.23E+01
	2	63.39	2.07E+02	83.67	9.99E+01	2.42E+01	1.07E+02	8.71E+01
M	3	67.79	1.33E+02	37.82			1.33E+02	3.78E+01
m	4	72.79	7.13E+01	58.82			7.13E+01	5.88E+01
m	5	77.66	6.72E+02	85.28	1.60E+01	8.83E+00	6.56E+02	8.57E+01
	6	87.92	1.99E+02	82.72			1.99E+02	8.27E+01
	7	186.18	3.78E+02	72.67	6.47E+01	7.53E+00	3.13E+02	7.31E+01
M	8	238.82	3.10E+02	48.87	1.73E+01	6.30E+00	2.93E+02	4.93E+01
m	9	242.06	4.28E+02	58.59			4.28E+02	5.86E+01
	10	269.91	8.50E+01	50.44			8.50E+01	5.04E+01
	11	295.23	6.80E+02	77.82	0.00E+00	0.00E+00	6.80E+02	7.78E+01
	12	338.13	6.50E+01	38.21			6.50E+01	3.82E+01
	13	352.03	1.18E+03	86.10	9.78E+00	4.40E+00	1.17E+03	8.62E+01
	14	373.90	2.57E+01	30.51			2.57E+01	3.05E+01
	15	388.33	5.80E+01	43.76			5.80E+01	4.38E+01
	16	398.84	7.59E+01	66.37			7.59E+01	6.64E+01
	17	462.66	5.86E+01	33.47			5.86E+01	3.35E+01
	18	510.40	1.71E+02	47.58	7.82E+01	5.46E+00	9.27E+01	4.79E+01
M	19	579.92	2.70E+01	18.00			2.70E+01	1.80E+01
m	20	583.13	9.62E+01	30.40	4.53E+00	3.34E+00	9.16E+01	3.06E+01
	21	609.42	8.84E+02	75.45	8.81E+00	3.15E+00	8.75E+02	7.55E+01
	22	664.80	3.20E+01	38.66			3.20E+01	3.87E+01
	23	673.40	1.72E+01	21.91			1.72E+01	2.19E+01
	24	768.75	6.76E+01	33.40			6.76E+01	3.34E+01
	25	807.74	6.34E+01	38.67			6.34E+01	3.87E+01
	26	861.35	2.69E+01	25.69			2.69E+01	2.57E+01
	27	911.11	8.80E+01	30.28	4.29E+00	2.56E+00	8.37E+01	3.04E+01
	28	933.87	3.62E+01	30.30			3.62E+01	3.03E+01
	29	969.88	4.73E+01	31.03			4.73E+01	3.10E+01
	30	1120.46	1.97E+02	37.49			1.97E+02	3.75E+01
	31	1155.40	2.18E+01	23.32			2.18E+01	2.33E+01
	32	1185.96	3.41E+01	37.99			3.41E+01	3.80E+01
	33	1207.92	2.63E+01	25.77			2.63E+01	2.58E+01
	34	1237.78	5.59E+01	31.00			5.59E+01	3.10E+01
	35	1297.90	2.47E+01	18.63			2.47E+01	1.86E+01
	36	1315.41	1.54E+01	20.35			1.54E+01	2.03E+01
	37	1377.11	7.00E+01	41.35			7.00E+01	4.14E+01
M	38	1405.12	9.66E+00	15.93			9.66E+00	1.59E+01
m	39	1415.13	1.14E+01	17.41			1.14E+01	1.74E+01
	40	1429.22	1.70E+01	17.64			1.70E+01	1.76E+01
	41	1460.90	2.53E+02	36.52	5.85E+00	2.19E+00	2.47E+02	3.66E+01
	42	1661.19	1.40E+01	16.31			1.40E+01	1.63E+01
	43	1684.53	1.04E+01	9.38			1.04E+01	9.38E+00
M	44	1728.24	1.96E+01	16.30			1.96E+01	1.63E+01
m	45	1730.76	1.87E+01	16.85			1.87E+01	1.69E+01
	46	1744.47	1.98E+01	15.71			1.98E+01	1.57E+01
	47	1764.44	1.39E+02	26.48			1.39E+02	2.65E+01
	48	1816.39	9.50E+00	7.50			9.50E+00	7.50E+00
	49	1823.07	5.43E+00	6.08			5.43E+00	6.08E+00
	50	1847.48	2.29E+01	10.97			2.29E+01	1.10E+01
	51	1856.29	6.00E+00	4.90			6.00E+00	4.90E+00
	52	1955.70	8.00E+00	5.66			8.00E+00	5.66E+00
	53	2010.21	7.00E+00	5.29			7.00E+00	5.29E+00
	54	2119.15	1.75E+01	10.25			1.75E+01	1.02E+01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
55	2204.04	3.50E+01	13.71	1.36E-01	1.12E+00	3.49E+01	1.38E+01
56	2520.75	5.00E+00	4.47			5.00E+00	4.47E+00
57	2614.13	4.00E+01	12.65	5.15E+00	1.50E+00	3.49E+01	1.27E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.999	1460.81	*	10.67	1.07E+01	1.84E+00
TI-44	0.963	67.88	*	94.40	1.24E-01	3.67E-02
		78.34	*	96.00	5.66E-01	8.86E-02
CD-109	0.998	88.03	*	3.72	4.51E+00	1.94E+00
SN-126	0.980	87.57	*	37.00	4.36E-01	1.86E-01
TL-208	0.968	583.14	*	30.22	6.87E-01	2.38E-01
		860.37	*	4.48	1.85E+00	1.78E+00
		2614.66	*	35.85	5.91E-01	2.22E-01
PB-210	0.995	46.50	*	4.25	3.44E+00	2.71E+00
PB-212	0.889	238.63	*	44.60	7.87E-01	1.49E-01
		300.09		3.41		
BI-214	0.998	609.31	*	46.30	4.43E+00	5.54E-01
		1120.29	*	15.10	4.95E+00	1.03E+00
		1764.49	*	15.80	4.62E+00	9.50E-01
		2204.22	*	4.98	4.09E+00	1.65E+00
PB-214	0.999	295.21	*	19.19	4.90E+00	6.79E-01
		351.92	*	37.19	4.91E+00	5.37E-01
RA-226	1.000	186.21	*	3.28	9.83E+00	1.81E+01
AC-228	0.971	338.32	*	11.40	8.65E-01	5.13E-01
		911.07	*	27.70	9.74E-01	3.63E-01
		969.11	*	16.60	9.66E-01	6.39E-01
TH-234	0.998	63.29	*	3.80	2.60E+00	2.13E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:24:19PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	72.79	1.98186E-02	41.22	Tol.	PM-145
m	9	242.06	1.18855E-01	6.85		
	10	269.91	2.35976E-02	29.69		
	14	373.90	7.12793E-03	59.45		
	15	388.33	1.61074E-02	37.73		
	16	398.84	2.10865E-02	43.72	Sum	
	17	462.66	1.62689E-02	28.57		
	18	510.40	2.57383E-02	25.84		
M	19	579.92	7.50294E-03	33.32		
	22	664.80	8.87657E-03	60.48	Tol.	CE-143
	23	673.40	4.76608E-03	63.84	Sum	
	24	768.75	1.87879E-02	24.69	Sum	
	25	807.74	1.76182E-02	30.49		
	28	933.87	1.00483E-02	41.88		
	31	1155.40	6.04167E-03	53.62	Sum	
	32	1185.96	9.46296E-03	55.75		
	33	1207.92	7.31481E-03	48.93	Sum	
	34	1237.78	1.55415E-02	27.70		
	35	1297.90	6.85077E-03	37.77		
	36	1315.41	4.28862E-03	65.89		
	37	1377.11	1.94444E-02	29.54		
M	38	1405.12	2.68437E-03	82.42		
m	39	1415.13	3.16369E-03	76.42	Sum	
	40	1429.22	4.72222E-03	51.87		
	42	1661.19	3.88889E-03	58.25		
	43	1684.53	2.87698E-03	45.29		
M	44	1728.24	5.43624E-03	41.65		
m	45	1730.76	5.19297E-03	45.07	Sum	
	46	1744.47	5.50000E-03	39.67		
	48	1816.39	2.63889E-03	39.47		
	49	1823.07	1.50794E-03	56.03	Sum	
	50	1847.48	6.37222E-03	23.90		
	51	1856.29	1.66667E-03	40.82		
	52	1955.70	2.22222E-03	35.36		

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
53	2010.21	1.94444E-03	37.80		
54	2119.15	4.86111E-03	29.28		
56	2520.75	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.99	1460.81	*	10.67	1.07E+01	1.84E+00
TI-44	0.96	67.88	*	94.40	1.24E-01	3.67E-02
		78.34	*	96.00	5.66E-01	8.86E-02
CD-109	0.99	88.03	*	3.72	4.51E+00	1.94E+00
SN-126	0.98	87.57	*	37.00	4.36E-01	1.86E-01
TL-208	0.96	583.14	*	30.22	6.87E-01	2.38E-01
		860.37	*	4.48	1.85E+00	1.78E+00
		2614.66	*	35.85	5.91E-01	2.22E-01
PB-210	0.99	46.50	*	4.25	3.44E+00	2.71E+00
PB-212	0.88	238.63	*	44.60	7.87E-01	1.49E-01
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	4.43E+00	5.54E-01
		1120.29	*	15.10	4.95E+00	1.03E+00
		1764.49	*	15.80	4.62E+00	9.50E-01
		2204.22	*	4.98	4.09E+00	1.65E+00
PB-214	0.99	295.21	*	19.19	4.90E+00	6.79E-01
		351.92	*	37.19	4.91E+00	5.37E-01
RA-226	1.00	186.21	*	3.28	9.83E+00	1.81E+01
AC-228	0.97	338.32	*	11.40	8.65E-01	5.13E-01
		911.07	*	27.70	9.74E-01	3.63E-01
		969.11	*	16.60	9.66E-01	6.39E-01
TH-234	0.99	63.29	*	3.80	2.60E+00	2.13E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.999	1.07E+01	1.84E+00	
	TI-44	0.963	1.89E-01	3.39E-02	
?	CD-109	0.998	4.51E+00	1.94E+00	
?	SN-126	0.980	4.36E-01	1.86E-01	
X	TA-182	0.481			
	TL-208	0.968	6.46E-01	1.61E-01	
	PB-210	0.995	3.44E+00	2.71E+00	
	PB-212	0.889	7.87E-01	1.49E-01	
	BI-214	0.998	4.54E+00	4.20E-01	
	PB-214	0.999	4.91E+00	4.21E-01	
	RA-226	1.000	9.83E+00	1.81E+01	
	AC-228	0.971	9.43E-01	2.69E-01	
	TH-234	0.998	2.60E+00	2.13E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 4:24:19PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	4	72.79	1.98186E-02	41.22	Tol.	PM-145
m	9	242.06	1.18855E-01	6.85		
	10	269.91	2.35976E-02	29.69		
	14	373.90	7.12793E-03	59.45		
	15	388.33	1.61074E-02	37.73		
	16	398.84	2.10865E-02	43.72	Sum	
	17	462.66	1.62689E-02	28.57		
	18	510.40	2.57383E-02	25.84		
M	19	579.92	7.50294E-03	33.32		
	22	664.80	8.87657E-03	60.48	Tol.	CE-143
	23	673.40	4.76608E-03	63.84	Sum	
	24	768.75	1.87879E-02	24.69	Sum	
	25	807.74	1.76182E-02	30.49		
	28	933.87	1.00483E-02	41.88		
	31	1155.40	6.04167E-03	53.62	Sum	
	32	1185.96	9.46296E-03	55.75		
	33	1207.92	7.31481E-03	48.93	Sum	
	34	1237.78	1.55415E-02	27.70		
	35	1297.90	6.85077E-03	37.77		
	36	1315.41	4.28862E-03	65.89		
	37	1377.11	1.94444E-02	29.54		
M	38	1405.12	2.68437E-03	82.42		
m	39	1415.13	3.16369E-03	76.42	Sum	
	40	1429.22	4.72222E-03	51.87		
	42	1661.19	3.88889E-03	58.25		
	43	1684.53	2.87698E-03	45.29		
M	44	1728.24	5.43624E-03	41.65		
m	45	1730.76	5.19297E-03	45.07	Sum	
	46	1744.47	5.50000E-03	39.67		
	48	1816.39	2.63889E-03	39.47		
	49	1823.07	1.50794E-03	56.03	Sum	
	50	1847.48	6.37222E-03	23.90		
	51	1856.29	1.66667E-03	40.82		
	52	1955.70	2.22222E-03	35.36		
	53	2010.21	1.94444E-03	37.80		

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
54	2119.15	4.86111E-03	29.28		
56	2520.75	1.38889E-03	44.72		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-3.19E-01	1.17E+00	1.17E+00
+	NA-22	1274.54		99.94	3.12E-02	1.07E-01	1.07E-01
+	NA-24	1368.53		99.99	-5.11E+11	5.80E+11	1.43E+12
		2754.09		99.86	-1.58E+11		5.80E+11
+	AL-26	1808.65		99.76	1.09E-02	9.67E-02	9.67E-02
+	K-40	1460.81	*	10.67	1.07E+01	1.46E+00	1.46E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88	*	94.40	1.24E-01	2.25E-01	2.37E-01
		78.34	*	96.00	5.66E-01		2.25E-01
+	SC-46	889.25		99.98	2.90E-02	1.40E-01	1.40E-01
		1120.51		99.99	8.95E-01		3.41E-01
+	V-48	983.52		99.98	2.75E-02	3.38E-01	3.38E-01
		1312.10		97.50	-1.29E-02		3.59E-01
+	CR-51	320.08		9.83	8.63E-02	1.62E+00	1.62E+00
+	MN-54	834.83		99.97	1.40E-02	1.24E-01	1.24E-01
+	CO-56	846.75		99.96	5.70E-02	1.45E-01	1.45E-01
		1037.75		14.03	4.09E-01		1.11E+00
		1238.25		67.00	4.23E-01		3.72E-01
		1771.40		15.51	-1.55E-01		5.64E-01
		2598.48		16.90	-2.28E-01		3.36E-01
+	CO-57	122.06		85.51	-2.17E-03	8.96E-02	8.96E-02
		136.48		10.60	3.80E-02		7.60E-01
+	CO-58	810.76		99.40	-8.95E-02	1.24E-01	1.24E-01
+	FE-59	1099.22		56.50	-6.21E-02	2.76E-01	2.76E-01
		1291.56		43.20	1.08E-01		3.82E-01
+	CO-60	1173.22		100.00	7.06E-03	9.34E-02	1.10E-01
		1332.49		100.00	-3.64E-02		9.34E-02

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	ZN-65	1115.52		50.75	-1.44E-02	2.71E-01	2.71E-01
+	GA-67	93.31		35.70	1.37E+02	8.41E+01	8.41E+01
		208.95		2.24	2.45E+02		1.23E+03
		300.22		16.00	6.33E+01		1.75E+02
+	SE-75	121.11		16.70	1.53E-01	1.47E-01	5.00E-01
		136.00		59.20	2.11E-03		1.47E-01
		264.65		59.80	8.44E-03		1.48E-01
		279.53		25.20	3.71E-02		3.60E-01
		400.65		11.40	-7.54E-02		9.14E-01
+	RB-82	776.52		13.00	9.01E-02	1.66E+00	1.66E+00
+	RB-83	520.41		46.00	3.63E-02	2.23E-01	2.23E-01
		529.64		30.30	1.19E-01		4.01E-01
		552.65		16.40	-5.54E-01		6.74E-01
+	KR-85	513.99		0.43	4.15E+01	2.97E+01	2.97E+01
+	SR-85	513.99		99.27	2.41E-01	1.73E-01	1.73E-01
+	Y-88	898.02		93.40	-1.47E-03	1.17E-01	1.41E-01
		1836.01		99.38	2.28E-02		1.17E-01
+	NB-93M	16.57		9.43	-1.18E+02	9.81E+01	9.81E+01
+	NB-94	702.63		100.00	-1.50E-02	9.53E-02	1.07E-01
		871.10		100.00	2.81E-03		9.53E-02
+	NB-95	765.79		99.81	2.21E-02	2.49E-01	2.49E-01
+	NB-95M	235.69		25.00	-1.45E+01	6.57E+01	6.57E+01
+	ZR-95	724.18		43.70	-2.71E-01	2.55E-01	3.25E-01
		756.72		55.30	3.13E-02		2.55E-01
+	MO-99	181.06		6.20	1.64E+02	7.24E+02	1.22E+03
		739.58		12.80	6.08E+01		7.24E+02
		778.00		4.50	9.55E+02		2.20E+03
+	RU-103	497.08		89.00	-6.18E-02	1.58E-01	1.58E-01
+	RU-106	621.84		9.80	-3.83E-01	9.60E-01	9.60E-01
+	AG-108M	433.93		89.90	-7.14E-03	1.10E-01	1.10E-01
		614.37		90.40	2.00E-02		1.29E-01
		722.95		90.50	-1.60E-01		1.15E-01
+	CD-109	88.03	*	3.72	4.51E+00	2.96E+00	2.96E+00
+	AG-110M	657.75		93.14	-8.38E-03	1.08E-01	1.08E-01
		677.61		10.53	4.71E-01		1.03E+00
		706.67		16.46	-3.62E-01		6.84E-01
		763.93		21.98	-2.06E-02		5.03E-01
		884.67		71.63	-2.63E-02		1.47E-01
		1384.27		23.94	-1.88E-01		5.31E-01
+	CD-113M	263.70		0.02	-2.01E+01	3.30E+02	3.30E+02
+	SN-113	255.12		1.93	3.46E-02	1.38E-01	4.55E+00
		391.69		64.90	-1.62E-01		1.38E-01
+	TE123M	159.00		84.10	-2.21E-02	1.08E-01	1.08E-01
+	SB-124	602.71		97.87	2.24E-02	1.44E-01	1.44E-01
		645.85		7.26	-1.72E-01		1.72E+00
		722.78		11.10	-1.79E+00		1.28E+00
		1691.02		49.00	-4.76E-03		2.69E-01
+	I-125	35.49		6.49	1.22E+00	4.36E+00	4.36E+00

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-125	176.33		6.89	-4.60E-01	3.43E-01	1.12E+00
		427.89		29.33	-1.11E-01		3.43E-01
		463.38		10.35	7.23E-01		1.01E+00
		600.56		17.80	8.60E-02		5.92E-01
		635.90		11.32	-2.79E-01		8.39E-01
+	SB-126	414.70		83.30	1.34E-01	4.56E-01	5.82E-01
		666.33		99.60	3.00E-01		5.36E-01
		695.00		99.60	9.07E-03		4.56E-01
		720.50		53.80	2.72E-02		8.96E-01
+	SN-126	87.57	*	37.00	4.36E-01	2.85E-01	2.85E-01
+	SB-127	473.00		25.00	2.20E+01	3.63E+01	5.17E+01
		685.20		35.70	-1.33E+01		3.63E+01
		783.80		14.70	-9.15E+00		9.81E+01
+	I-129	29.78		57.00	1.29E-01	7.61E-01	7.61E-01
		33.60		13.20	-3.58E-01		1.92E+00
		39.58		7.52	-6.62E-01		2.08E+00
+	I-131	284.30		6.05	-4.21E+00	9.55E-01	1.29E+01
		364.48		81.20	-1.96E-01		9.55E-01
		636.97		7.26	-1.63E+00		1.36E+01
		722.89		1.80	-8.42E+01		6.03E+01
+	TE-132	49.72		13.10	-7.50E+01	2.98E+01	2.76E+02
		228.16		88.00	1.54E+01		2.98E+01
+	BA-133	81.00		33.00	-1.99E-01	1.45E-01	2.84E-01
		302.84		17.80	1.27E-01		4.80E-01
		356.01		60.00	-4.16E-02		1.45E-01
+	I-133	529.87		86.30	9.58E+07	3.23E+08	3.23E+08
+	XE-133	81.00		38.00	-6.29E+00	8.98E+00	8.98E+00
+	CS-134	563.23		8.38	-4.55E-01	1.26E-01	1.12E+00
		569.32		15.43	1.55E-01		6.20E-01
		604.70		97.60	1.18E-02		1.42E-01
		795.84		85.40	5.11E-02		1.26E-01
		801.93		8.73	-9.14E-01		1.18E+00
+	CS-135	268.24		16.00	6.60E-01	5.84E-01	5.84E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	2.18E+00	3.86E-01	4.45E+00
		163.89		4.61	6.21E-01		6.97E+00
		176.55		13.56	-9.63E-01		2.35E+00
		273.65		12.66	7.46E-01		2.76E+00
		340.57		48.50	-8.11E-02		8.10E-01
		818.50		99.70	-4.21E-03		3.86E-01
		1048.07		79.60	-3.57E-01		5.36E-01
		1235.34		19.70	2.48E+00		3.80E+00
+	CS-137	661.65		85.12	-1.85E-02	1.27E-01	1.27E-01
+	LA-138	788.74		34.00	-3.29E-02	1.56E-01	3.12E-01
		1435.80		66.00	-2.92E-02		1.56E-01
+	CE-139	165.85		80.35	2.37E-02	1.08E-01	1.08E-01
+	BA-140	162.64		6.70	4.09E-01	1.62E+00	5.01E+00

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-140	304.84	4.50	2.04E+00	1.62E+00	7.87E+00
		423.70	3.20	8.51E+00		1.43E+01
		437.55	2.00	1.74E+00		2.19E+01
		537.32	25.00	5.63E-01		1.62E+00
+	LA-140	328.77	20.50	2.01E-01	5.06E-01	1.76E+00
		487.03	45.50	2.44E-01		9.22E-01
		815.85	23.50	-4.16E-01		1.64E+00
		1596.49	95.49	2.12E-01		5.06E-01
+	CE-141	145.44	48.40	3.03E-01	2.97E-01	2.97E-01
+	CE-143	57.36	11.80	5.82E+04	4.00E+05	7.12E+05
		293.26	42.00	1.86E+06		4.00E+05
		664.55	5.20	1.56E+06		2.08E+06
+	CE-144	133.54	10.80	-2.53E-01	7.12E-01	7.12E-01
+	PM-144	476.78	42.00	-9.25E-02	1.05E-01	2.15E-01
		618.01	98.60	-9.64E-03		1.08E-01
		696.49	99.49	-1.92E-02		1.05E-01
+	PM-145	36.85	21.70	-6.84E-01	4.55E-01	8.28E-01
		37.36	39.70	-1.17E-01		4.55E-01
		42.30	15.10	-9.31E-02		9.37E-01
		72.40	2.31	-6.47E+00		5.04E+00
+	PM-146	453.90	39.94	7.39E-02	2.37E-01	2.37E-01
		735.90	14.01	-2.15E-01		6.78E-01
		747.13	13.10	-3.93E-01		7.12E-01
+	ND-147	91.11	28.90	1.98E-01	1.86E+00	1.86E+00
		531.02	13.10	0.00E+00		4.07E+00
+	PM-149	285.90	3.10	-3.97E+03	1.26E+04	1.26E+04
+	EU-152	121.78	20.50	-8.47E-03	3.50E-01	3.50E-01
		244.69	5.40	3.22E-01		1.87E+00
		344.27	19.13	6.16E-02		3.95E-01
		778.89	9.20	4.50E-01		1.14E+00
		964.01	10.40	4.23E-01		1.28E+00
		1085.78	7.22	-1.02E-01		1.36E+00
		1112.02	9.60	1.69E-01		1.16E+00
		1407.95	14.94	9.26E-01		1.06E+00
+	GD-153	97.43	31.30	-7.50E-02	2.40E-01	2.40E-01
		103.18	22.20	1.21E-01		3.33E-01
+	EU-154	123.07	40.50	9.56E-02	1.79E-01	1.79E-01
		723.30	19.70	-7.40E-01		5.31E-01
		873.19	11.50	-4.26E-02		8.76E-01
		996.32	10.30	-7.81E-01		8.46E-01
		1004.76	17.90	-3.13E-01		6.15E-01
		1274.45	35.50	8.66E-02		2.97E-01
+	EU-155	86.50	30.90	-8.39E-02	3.27E-01	3.27E-01
		105.30	20.70	-2.40E-01		3.32E-01
+	EU-156	811.77	10.40	-1.44E-01	3.18E+00	3.18E+00
		1153.47	7.20	2.49E-01		6.96E+00
		1230.71	8.90	5.89E-01		4.87E+00
+	HO-166M	184.41	72.60	4.37E-01	1.65E-01	1.65E-01
		280.45	29.60	-2.23E-02		2.58E-01

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	410.94		11.10	-1.97E-02	1.65E-01	9.56E-01
		711.69		54.10	-6.93E-02		1.98E-01
+	TM-171	66.72		0.14	-8.36E+01	7.54E+01	7.54E+01
+	HF-172	81.75		4.52	-1.49E-01	6.52E-01	2.16E+00
		125.81		11.30	-1.07E-01		6.52E-01
+	LU-172	181.53		20.60	1.22E+00	2.64E+00	6.56E+00
		810.06		16.63	-4.56E+00		1.02E+01
		912.12		15.25	3.19E+01		1.94E+01
		1093.66		62.50	-7.90E-01		2.64E+00
+	LU-173	100.72		5.24	3.51E-01	4.59E-01	1.37E+00
		272.11		21.20	2.40E-01		4.59E-01
+	HF-175	343.40		84.00	5.77E-02	1.24E-01	1.24E-01
+	LU-176	88.34		13.30	2.25E+00	8.22E-02	7.87E-01
		201.83		86.00	-4.38E-02		9.20E-02
		306.78		94.00	5.92E-03		8.22E-02
+	TA-182	67.75	*	41.20	3.35E-01	5.15E-01	6.41E-01
		1121.30	*	34.90	2.53E+00		5.60E-01
		1189.05		16.23	3.14E-01		8.97E-01
		1221.41		26.98	-1.33E-02		5.15E-01
		1231.02		11.44	1.56E-01		1.29E+00
+	IR-192	308.46		29.68	-4.40E-03	2.43E-01	3.24E-01
		468.07		48.10	2.69E-03		2.43E-01
+	HG-203	279.19		77.30	-5.44E-02	1.47E-01	1.47E-01
+	BI-207	569.67		97.72	2.97E-02	9.75E-02	9.75E-02
		1063.62		74.90	-1.22E-01		1.29E-01
+	TL-208	583.14	*	30.22	6.87E-01	1.79E-01	4.19E-01
		860.37	*	4.48	1.85E+00		2.85E+00
		2614.66	*	35.85	5.91E-01		1.79E-01
+	BI-210M	262.00		45.00	8.29E-02	1.75E-01	1.75E-01
		300.00		23.00	1.35E-01		3.73E-01
+	PB-210	46.50	*	4.25	3.44E+00	4.36E+00	4.36E+00
+	PB-211	404.84		2.90	5.01E-01	3.23E+00	3.23E+00
		831.96		2.90	-1.58E+00		3.51E+00
+	BI-212	727.17		11.80	3.73E-01	1.03E+00	1.03E+00
		1620.62		2.75	4.26E-01		3.96E+00
+	PB-212	238.63	*	44.60	7.87E-01	3.18E-01	3.18E-01
		300.09		3.41	9.11E-01		2.51E+00
+	BI-214	609.31	*	46.30	4.43E+00	4.05E-01	4.05E-01
		1120.29	*	15.10	4.95E+00		1.10E+00
		1764.49	*	15.80	4.62E+00		7.44E-01
		2204.22	*	4.98	4.09E+00		1.68E+00
+	PB-214	295.21	*	19.19	4.90E+00	3.74E-01	7.03E-01
		351.92	*	37.19	4.91E+00		3.74E-01
+	RN-219	401.80		6.50	7.79E-01	1.46E+00	1.46E+00
+	RA-223	323.87		3.88	-7.59E-01	1.93E+00	1.93E+00
+	RA-224	240.98		3.95	1.91E+01	4.21E+00	4.21E+00
+	RA-225	40.00		31.00	-5.59E-01	1.76E+00	1.76E+00
+	RA-226	186.21	*	3.28	9.83E+00	3.39E+00	3.39E+00

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TH-227	50.10		8.40	-3.53E-01	7.68E-01	1.30E+00
		236.00		11.50	-1.70E-01		7.68E-01
		256.20		6.30	-8.83E-02		1.18E+00
+	AC-228	338.32	*	11.40	8.65E-01	4.96E-01	7.95E-01
		911.07	*	27.70	9.74E-01		4.96E-01
		969.11	*	16.60	9.66E-01		9.90E-01
+	TH-230	48.44		16.90	9.96E-01	7.82E-01	7.82E-01
		62.85		4.60	4.32E+00		2.38E+00
		67.67		0.37	-1.43E-02		2.71E+01
+	PA-231	283.67		1.60	1.49E-01	3.69E+00	4.82E+00
		302.67		2.30	9.77E-01		3.69E+00
+	TH-231	25.64		14.70	-8.43E-01	1.47E+00	7.24E+00
		84.21		6.40	1.28E+00		1.47E+00
+	PA-233	311.98		38.60	1.27E-01	3.80E-01	3.80E-01
+	PA-234	131.20		20.40	-7.50E-02	3.43E-01	3.43E-01
		733.99		8.80	2.38E-01		1.18E+00
		946.00		12.00	4.56E-01		9.29E-01
+	PA-234M	1001.03		0.92	2.10E-01	1.16E+01	1.16E+01
+	TH-234	63.29	*	3.80	2.60E+00	3.45E+00	3.45E+00
+	U-235	143.76		10.50	3.01E-01	7.72E-01	7.72E-01
		163.35		4.70	1.45E-01		1.63E+00
		205.31		4.70	-1.63E-01		1.77E+00
+	NP-237	86.50		12.60	-2.04E-01	7.93E-01	7.93E-01
+	NP-239	106.10		22.70	-6.55E+02	9.05E+02	9.05E+02
		228.18		10.70	1.17E+03		2.26E+03
		277.60		14.10	-1.82E+02		1.69E+03
+	AM-241	59.54		35.90	5.66E-02	2.60E-01	2.60E-01
+	AM-243	74.67		66.00	-4.78E-01	2.19E-01	2.19E-01
+	CM-243	209.75		3.29	1.26E+00	5.64E-01	2.56E+00
		228.14		10.60	3.91E-01		7.58E-01
		277.60		14.00	-6.07E-02		5.64E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1508002-03

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.17E+00	1.17E+00	-3.19E-01	5.47E-01
	NA-22	1274.54		99.94	1.07E-01	1.07E-01	3.12E-02	4.78E-02
	NA-24	1368.53		99.99	1.43E+12	5.80E+11	-5.11E+11	6.38E+11
		2754.09		99.86	5.80E+11		-1.58E+11	1.83E+11
	AL-26	1808.65		99.76	9.67E-02	9.67E-02	1.09E-02	4.11E-02
+	K-40	1460.81	*	10.67	1.46E+00	1.46E+00	1.07E+01	6.70E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
+	TI-44	67.88	*	94.40	2.37E-01	2.25E-01	1.24E-01	1.17E-01
		78.34	*	96.00	2.25E-01		5.66E-01	1.11E-01
	SC-46	889.25		99.98	1.40E-01	1.40E-01	2.90E-02	6.45E-02
		1120.51		99.99	3.41E-01		8.95E-01	1.64E-01
	V-48	983.52		99.98	3.38E-01	3.38E-01	2.75E-02	1.54E-01
		1312.10		97.50	3.59E-01		-1.29E-02	1.60E-01
	CR-51	320.08		9.83	1.62E+00	1.62E+00	8.63E-02	7.73E-01
	MN-54	834.83		99.97	1.24E-01	1.24E-01	1.40E-02	5.76E-02
	CO-56	846.75		99.96	1.45E-01	1.45E-01	5.70E-02	6.73E-02
		1037.75		14.03	1.11E+00		4.09E-01	5.11E-01
		1238.25		67.00	3.72E-01		4.23E-01	1.76E-01
		1771.40		15.51	5.64E-01		-1.55E-01	2.24E-01
		2598.48		16.90	3.36E-01		-2.28E-01	1.06E-01
	CO-57	122.06		85.51	8.96E-02	8.96E-02	-2.17E-03	4.34E-02
		136.48		10.60	7.60E-01		3.80E-02	3.68E-01
	CO-58	810.76		99.40	1.24E-01	1.24E-01	-8.95E-02	5.68E-02
	FE-59	1099.22		56.50	2.76E-01	2.76E-01	-6.21E-02	1.24E-01
		1291.56		43.20	3.82E-01		1.08E-01	1.71E-01
	CO-60	1173.22		100.00	1.10E-01	9.34E-02	7.06E-03	4.98E-02
		1332.49		100.00	9.34E-02		-3.64E-02	4.08E-02
	ZN-65	1115.52		50.75	2.71E-01	2.71E-01	-1.44E-02	1.24E-01
	GA-67	93.31		35.70	8.41E+01	8.41E+01	1.37E+02	4.10E+01
		208.95		2.24	1.23E+03		2.45E+02	5.91E+02
		300.22		16.00	1.75E+02		6.33E+01	8.35E+01
	SE-75	121.11		16.70	5.00E-01	1.47E-01	1.53E-01	2.42E-01
		136.00		59.20	1.47E-01		2.11E-03	7.13E-02
		264.65		59.80	1.48E-01		8.44E-03	7.08E-02
		279.53		25.20	3.60E-01		3.71E-02	1.71E-01
		400.65		11.40	9.14E-01		-7.54E-02	4.33E-01
	RB-82	776.52		13.00	1.66E+00	1.66E+00	9.01E-02	7.66E-01
	RB-83	520.41		46.00	2.23E-01	2.23E-01	3.63E-02	1.04E-01
		529.64		30.30	4.01E-01		1.19E-01	1.89E-01
		552.65		16.40	6.74E-01		-5.54E-01	3.14E-01
	KR-85	513.99		0.43	2.97E+01	2.97E+01	4.15E+01	1.42E+01
	SR-85	513.99		99.27	1.73E-01	1.73E-01	2.41E-01	8.27E-02
	Y-88	898.02		93.40	1.41E-01	1.17E-01	-1.47E-03	6.50E-02
		1836.01		99.38	1.17E-01		2.28E-02	4.97E-02
	NB-93M	16.57		9.43	9.81E+01	9.81E+01	-1.18E+02	4.50E+01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	1.07E-01	9.53E-02	-1.50E-02	4.99E-02
		871.10		100.00	9.53E-02		2.81E-03	4.34E-02
	NB-95	765.79		99.81	2.49E-01	2.49E-01	2.21E-02	1.18E-01
	NB-95M	235.69		25.00	6.57E+01	6.57E+01	-1.45E+01	3.17E+01
	ZR-95	724.18		43.70	3.25E-01	2.55E-01	-2.71E-01	1.51E-01
		756.72		55.30	2.55E-01		3.13E-02	1.19E-01
	MO-99	181.06		6.20	1.22E+03	7.24E+02	1.64E+02	5.89E+02
		739.58		12.80	7.24E+02		6.08E+01	3.34E+02
		778.00		4.50	2.20E+03		9.55E+02	1.02E+03
	RU-103	497.08		89.00	1.58E-01	1.58E-01	-6.18E-02	7.39E-02
	RU-106	621.84		9.80	9.60E-01	9.60E-01	-3.83E-01	4.46E-01
	AG-108M	433.93		89.90	1.10E-01	1.10E-01	-7.14E-03	5.21E-02
		614.37		90.40	1.29E-01		2.00E-02	6.08E-02
		722.95		90.50	1.15E-01		-1.60E-01	5.34E-02
+	CD-109	88.03	*	3.72	2.96E+00	2.96E+00	4.51E+00	1.45E+00
	AG-110M	657.75		93.14	1.08E-01	1.08E-01	-8.38E-03	5.02E-02
		677.61		10.53	1.03E+00		4.71E-01	4.82E-01
		706.67		16.46	6.84E-01		-3.62E-01	3.19E-01
		763.93		21.98	5.03E-01		-2.06E-02	2.33E-01
		884.67		71.63	1.47E-01		-2.63E-02	6.71E-02
		1384.27		23.94	5.31E-01		-1.88E-01	2.38E-01
	CD-113M	263.70		0.02	3.30E+02	3.30E+02	-2.01E+01	1.58E+02
	SN-113	255.12		1.93	4.55E+00	1.38E-01	3.46E-02	2.17E+00
		391.69		64.90	1.38E-01		-1.62E-01	6.48E-02
	TE123M	159.00		84.10	1.08E-01	1.08E-01	-2.21E-02	5.22E-02
	SB-124	602.71		97.87	1.44E-01	1.44E-01	2.24E-02	6.76E-02
		645.85		7.26	1.72E+00		-1.72E-01	7.98E-01
		722.78		11.10	1.28E+00		-1.79E+00	5.95E-01
		1691.02		49.00	2.69E-01		-4.76E-03	1.15E-01
	I-125	35.49		6.49	4.36E+00	4.36E+00	1.22E+00	2.11E+00
	SB-125	176.33		6.89	1.12E+00	3.43E-01	-4.60E-01	5.41E-01
		427.89		29.33	3.43E-01		-1.11E-01	1.63E-01
		463.38		10.35	1.01E+00		7.23E-01	4.78E-01
		600.56		17.80	5.92E-01		8.60E-02	2.78E-01
		635.90		11.32	8.39E-01		-2.79E-01	3.90E-01
	SB-126	414.70		83.30	5.82E-01	4.56E-01	1.34E-01	2.78E-01
		666.33		99.60	5.36E-01		3.00E-01	2.52E-01
		695.00		99.60	4.56E-01		9.07E-03	2.12E-01
		720.50		53.80	8.96E-01		2.72E-02	4.17E-01
+	SN-126	87.57	*	37.00	2.85E-01	2.85E-01	4.36E-01	1.40E-01
	SB-127	473.00		25.00	5.17E+01	3.63E+01	2.20E+01	2.44E+01
		685.20		35.70	3.63E+01		-1.33E+01	1.69E+01
		783.80		14.70	9.81E+01		-9.15E+00	4.55E+01
	I-129	29.78		57.00	7.61E-01	7.61E-01	1.29E-01	3.68E-01
		33.60		13.20	1.92E+00		-3.58E-01	9.29E-01
		39.58		7.52	2.08E+00		-6.62E-01	1.00E+00
	I-131	284.30		6.05	1.29E+01	9.55E-01	-4.21E+00	6.15E+00
		364.48		81.20	9.55E-01		-1.96E-01	4.50E-01
		636.97		7.26	1.36E+01		-1.63E+00	6.35E+00
		722.89		1.80	6.03E+01		-8.42E+01	2.81E+01
	TE-132	49.72		13.10	2.76E+02	2.98E+01	-7.50E+01	1.34E+02
		228.16		88.00	2.98E+01		1.54E+01	1.43E+01
	BA-133	81.00		33.00	2.84E-01	1.45E-01	-1.99E-01	1.39E-01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
BA-133	302.84	17.80	4.80E-01	1.45E-01	1.27E-01	2.29E-01
	356.01	60.00	1.45E-01		-4.16E-02	6.88E-02
I-133	529.87	86.30	3.23E+08	3.23E+08	9.58E+07	1.52E+08
XE-133	81.00	38.00	8.98E+00	8.98E+00	-6.29E+00	4.38E+00
CS-134	563.23	8.38	1.12E+00	1.26E-01	-4.55E-01	5.26E-01
	569.32	15.43	6.20E-01		1.55E-01	2.90E-01
	604.70	97.60	1.42E-01		1.18E-02	6.79E-02
	795.84	85.40	1.26E-01		5.11E-02	5.83E-02
	801.93	8.73	1.18E+00		-9.14E-01	5.45E-01
CS-135	268.24	16.00	5.84E-01	5.84E-01	6.60E-01	2.81E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	4.45E+00	3.86E-01	2.18E+00	2.15E+00
	163.89	4.61	6.97E+00		6.21E-01	3.37E+00
	176.55	13.56	2.35E+00		-9.63E-01	1.13E+00
	273.65	12.66	2.76E+00		7.46E-01	1.32E+00
	340.57	48.50	8.10E-01		-8.11E-02	3.87E-01
	818.50	99.70	3.86E-01		-4.21E-03	1.76E-01
	1048.07	79.60	5.36E-01		-3.57E-01	2.42E-01
	1235.34	19.70	3.80E+00		2.48E+00	1.78E+00
CS-137	661.65	85.12	1.27E-01	1.27E-01	-1.85E-02	5.97E-02
LA-138	788.74	34.00	3.12E-01	1.56E-01	-3.29E-02	1.44E-01
	1435.80	66.00	1.56E-01		-2.92E-02	6.85E-02
CE-139	165.85	80.35	1.08E-01	1.08E-01	2.37E-02	5.22E-02
BA-140	162.64	6.70	5.01E+00	1.62E+00	4.09E-01	2.42E+00
	304.84	4.50	7.87E+00		2.04E+00	3.75E+00
	423.70	3.20	1.43E+01		8.51E+00	6.81E+00
	437.55	2.00	2.19E+01		1.74E+00	1.04E+01
	537.32	25.00	1.62E+00		5.63E-01	7.60E-01
LA-140	328.77	20.50	1.76E+00	5.06E-01	2.01E-01	8.35E-01
	487.03	45.50	9.22E-01		2.44E-01	4.35E-01
	815.85	23.50	1.64E+00		-4.16E-01	7.45E-01
	1596.49	95.49	5.06E-01		2.12E-01	2.23E-01
CE-141	145.44	48.40	2.97E-01	2.97E-01	3.03E-01	1.44E-01
CE-143	57.36	11.80	7.12E+05	4.00E+05	5.82E+04	3.45E+05
	293.26	42.00	4.00E+05		1.86E+06	1.96E+05
	664.55	5.20	2.08E+06		1.56E+06	9.82E+05
CE-144	133.54	10.80	7.12E-01	7.12E-01	-2.53E-01	3.44E-01
PM-144	476.78	42.00	2.15E-01	1.05E-01	-9.25E-02	1.01E-01
	618.01	98.60	1.08E-01		-9.64E-03	5.04E-02
	696.49	99.49	1.05E-01		-1.92E-02	4.88E-02
PM-145	36.85	21.70	8.28E-01	4.55E-01	-6.84E-01	3.99E-01
	37.36	39.70	4.55E-01		-1.17E-01	2.20E-01
	42.30	15.10	9.37E-01		-9.31E-02	4.53E-01
	72.40	2.31	5.04E+00		-6.47E+00	2.47E+00
PM-146	453.90	39.94	2.37E-01	2.37E-01	7.39E-02	1.12E-01
	735.90	14.01	6.78E-01		-2.15E-01	3.12E-01
	747.13	13.10	7.12E-01		-3.93E-01	3.27E-01
ND-147	91.11	28.90	1.86E+00	1.86E+00	1.98E-01	9.06E-01
	531.02	13.10	4.07E+00		0.00E+00	1.92E+00
PM-149	285.90	3.10	1.26E+04	1.26E+04	-3.97E+03	6.00E+03
EU-152	121.78	20.50	3.50E-01	3.50E-01	-8.47E-03	1.69E-01

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	1.87E+00	3.50E-01	3.22E-01	9.07E-01
		344.27		19.13	3.95E-01		6.16E-02	1.87E-01
		778.89		9.20	1.14E+00		4.50E-01	5.26E-01
		964.01		10.40	1.28E+00		4.23E-01	5.96E-01
		1085.78		7.22	1.36E+00		-1.02E-01	6.11E-01
		1112.02		9.60	1.16E+00		1.69E-01	5.28E-01
		1407.95		14.94	1.06E+00		9.26E-01	4.89E-01
	GD-153	97.43		31.30	2.40E-01	2.40E-01	-7.50E-02	1.16E-01
		103.18		22.20	3.33E-01		1.21E-01	1.61E-01
	EU-154	123.07		40.50	1.79E-01	1.79E-01	9.56E-02	8.66E-02
		723.30		19.70	5.31E-01		-7.40E-01	2.47E-01
		873.19		11.50	8.76E-01		-4.26E-02	4.01E-01
		996.32		10.30	8.46E-01		-7.81E-01	3.77E-01
		1004.76		17.90	6.15E-01		-3.13E-01	2.81E-01
		1274.45		35.50	2.97E-01		8.66E-02	1.33E-01
	EU-155	86.50		30.90	3.27E-01	3.27E-01	-8.39E-02	1.60E-01
		105.30		20.70	3.32E-01		-2.40E-01	1.60E-01
	EU-156	811.77		10.40	3.18E+00	3.18E+00	-1.44E-01	1.46E+00
		1153.47		7.20	6.96E+00		2.49E-01	3.23E+00
		1230.71		8.90	4.87E+00		5.89E-01	2.22E+00
	HO-166M	184.41		72.60	1.65E-01	1.65E-01	4.37E-01	8.07E-02
		280.45		29.60	2.58E-01		-2.23E-02	1.23E-01
		410.94		11.10	9.56E-01		-1.97E-02	4.57E-01
		711.69		54.10	1.98E-01		-6.93E-02	9.25E-02
	TM-171	66.72		0.14	7.54E+01	7.54E+01	-8.36E+01	3.68E+01
	HF-172	81.75		4.52	2.16E+00	6.52E-01	-1.49E-01	1.05E+00
		125.81		11.30	6.52E-01		-1.07E-01	3.15E-01
	LU-172	181.53		20.60	6.56E+00	2.64E+00	1.22E+00	3.17E+00
		810.06		16.63	1.02E+01		-4.56E+00	4.70E+00
		912.12		15.25	1.94E+01		3.19E+01	9.24E+00
		1093.66		62.50	2.64E+00		-7.90E-01	1.18E+00
	LU-173	100.72		5.24	1.37E+00	4.59E-01	3.51E-01	6.63E-01
		272.11		21.20	4.59E-01		2.40E-01	2.21E-01
	HF-175	343.40		84.00	1.24E-01	1.24E-01	5.77E-02	5.89E-02
	LU-176	88.34		13.30	7.87E-01	8.22E-02	2.25E+00	3.85E-01
		201.83		86.00	9.20E-02		-4.38E-02	4.43E-02
		306.78		94.00	8.22E-02		5.92E-03	3.91E-02
	TA-182	67.75	*	41.20	6.41E-01	5.15E-01	3.35E-01	3.17E-01
		1121.30	*	34.90	5.60E-01		2.53E+00	2.63E-01
		1189.05		16.23	8.97E-01		3.14E-01	4.09E-01
		1221.41		26.98	5.15E-01		-1.33E-02	2.34E-01
		1231.02		11.44	1.29E+00		1.56E-01	5.88E-01
	IR-192	308.46		29.68	3.24E-01	2.43E-01	-4.40E-03	1.54E-01
		468.07		48.10	2.43E-01		2.69E-03	1.14E-01
	HG-203	279.19		77.30	1.47E-01	1.47E-01	-5.44E-02	7.02E-02
	BI-207	569.67		97.72	9.75E-02	9.75E-02	2.97E-02	4.57E-02
		1063.62		74.90	1.29E-01		-1.22E-01	5.79E-02
+	TL-208	583.14	*	30.22	4.19E-01	1.79E-01	6.87E-01	1.99E-01
		860.37	*	4.48	2.85E+00		1.85E+00	1.33E+00
		2614.66	*	35.85	1.79E-01		5.91E-01	6.66E-02
	BI-210M	262.00		45.00	1.75E-01	1.75E-01	8.29E-02	8.39E-02
		300.00		23.00	3.73E-01		1.35E-01	1.78E-01
+	PB-210	46.50	*	4.25	4.36E+00	4.36E+00	3.44E+00	2.14E+00

Analysis Report for 1508002-03

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	3.23E+00	3.23E+00	5.01E-01	1.54E+00
		831.96		2.90	3.51E+00		-1.58E+00	1.61E+00
	BI-212	727.17		11.80	1.03E+00	1.03E+00	3.73E-01	4.84E-01
		1620.62		2.75	3.96E+00		4.26E-01	1.74E+00
+	PB-212	238.63	*	44.60	3.18E-01	3.18E-01	7.87E-01	1.56E-01
		300.09		3.41	2.51E+00		9.11E-01	1.20E+00
+	BI-214	609.31	*	46.30	4.05E-01	4.05E-01	4.43E+00	1.95E-01
		1120.29	*	15.10	1.10E+00		4.95E+00	5.15E-01
		1764.49	*	15.80	7.44E-01		4.62E+00	3.27E-01
		2204.22	*	4.98	1.68E+00		4.09E+00	6.80E-01
+	PB-214	295.21	*	19.19	7.03E-01	3.74E-01	4.90E+00	3.42E-01
		351.92	*	37.19	3.74E-01		4.91E+00	1.81E-01
	RN-219	401.80		6.50	1.46E+00	1.46E+00	7.79E-01	6.92E-01
	RA-223	323.87		3.88	1.93E+00	1.93E+00	-7.59E-01	9.13E-01
	RA-224	240.98		3.95	4.21E+00	4.21E+00	1.91E+01	2.06E+00
	RA-225	40.00		31.00	1.76E+00	1.76E+00	-5.59E-01	8.48E-01
+	RA-226	186.21	*	3.28	3.39E+00	3.39E+00	9.83E+00	1.65E+00
	TH-227	50.10		8.40	1.30E+00	7.68E-01	-3.53E-01	6.30E-01
		236.00		11.50	7.68E-01		-1.70E-01	3.70E-01
		256.20		6.30	1.18E+00		-8.83E-02	5.62E-01
+	AC-228	338.32	*	11.40	7.95E-01	4.96E-01	8.65E-01	3.79E-01
		911.07	*	27.70	4.96E-01		9.74E-01	2.32E-01
		969.11	*	16.60	9.90E-01		9.66E-01	4.67E-01
	TH-230	48.44		16.90	7.82E-01	7.82E-01	9.96E-01	3.81E-01
		62.85		4.60	2.38E+00		4.32E+00	1.16E+00
		67.67		0.37	2.71E+01		-1.43E-02	1.32E+01
	PA-231	283.67		1.60	4.82E+00	3.69E+00	1.49E-01	2.30E+00
		302.67		2.30	3.69E+00		9.77E-01	1.76E+00
	TH-231	25.64		14.70	7.24E+00	1.47E+00	-8.43E-01	3.52E+00
		84.21		6.40	1.47E+00		1.28E+00	7.18E-01
	PA-233	311.98		38.60	3.80E-01	3.80E-01	1.27E-01	1.80E-01
	PA-234	131.20		20.40	3.43E-01	3.43E-01	-7.50E-02	1.66E-01
		733.99		8.80	1.18E+00		2.38E-01	5.46E-01
		946.00		12.00	9.29E-01		4.56E-01	4.27E-01
	PA-234M	1001.03		0.92	1.16E+01	1.16E+01	2.10E-01	5.27E+00
+	TH-234	63.29	*	3.80	3.45E+00	3.45E+00	2.60E+00	1.69E+00
	U-235	143.76		10.50	7.72E-01	7.72E-01	3.01E-01	3.74E-01
		163.35		4.70	1.63E+00		1.45E-01	7.86E-01
		205.31		4.70	1.77E+00		-1.63E-01	8.56E-01
	NP-237	86.50		12.60	7.93E-01	7.93E-01	-2.04E-01	3.88E-01
	NP-239	106.10		22.70	9.05E+02	9.05E+02	-6.55E+02	4.38E+02
		228.18		10.70	2.26E+03		1.17E+03	1.09E+03
		277.60		14.10	1.69E+03		-1.82E+02	8.05E+02
	AM-241	59.54		35.90	2.60E-01	2.60E-01	5.66E-02	1.26E-01
	AM-243	74.67		66.00	2.19E-01	2.19E-01	-4.78E-01	1.08E-01
	CM-243	209.75		3.29	2.56E+00	5.64E-01	1.26E+00	1.23E+00
		228.14		10.60	7.58E-01		3.91E-01	3.64E-01
		277.60		14.00	5.64E-01		-6.07E-02	2.69E-01

Analysis Report for 1508002-03

FEEBRIS1D-8 075-076

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-8 075-076

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	41	80	104	227	164	169
25:	69	66	63	71	57	58	58	64
33:	56	56	40	53	56	52	41	64
41:	69	49	63	64	65	84	176	85
49:	66	57	85	60	92	114	71	67
57:	64	84	74	70	85	87	123	193
65:	124	88	88	169	117	106	106	99
73:	137	121	364	307	394	586	129	137
81:	104	122	80	150	129	64	168	229
89:	82	134	129	80	201	137	93	63
97:	50	58	78	72	52	49	64	59
105:	72	61	57	51	77	53	51	69
113:	64	65	64	70	52	50	61	60
121:	69	59	60	61	63	49	64	67
129:	66	54	52	56	60	58	55	64
137:	73	60	63	65	65	72	60	79
145:	89	51	62	62	45	62	67	60
153:	63	62	70	59	46	63	66	61
161:	54	63	52	61	48	50	53	53
169:	48	58	48	51	53	54	53	52
177:	45	50	48	57	59	49	51	57
185:	63	218	216	72	43	53	59	47
193:	42	56	67	61	52	59	47	44
201:	51	39	51	45	57	56	44	49
209:	52	63	43	41	41	41	34	44
217:	41	31	48	41	43	35	31	36
225:	33	40	36	50	36	40	33	32
233:	44	35	45	48	38	70	243	107
241:	73	242	177	42	30	27	20	33
249:	36	33	32	28	32	22	28	34
257:	33	30	29	32	32	27	38	33
265:	26	23	27	31	44	52	69	35
273:	29	35	43	29	29	29	27	35
281:	17	34	24	28	28	24	25	31
289:	33	31	24	33	36	60	294	372
297:	60	31	27	32	43	26	33	17
305:	35	22	31	15	21	27	20	17
313:	22	21	15	21	26	30	19	26
321:	30	23	28	24	17	15	22	26
329:	29	29	22	28	32	26	12	27
337:	16	45	65	20	22	28	24	16
345:	21	23	15	16	23	29	127	682
353:	378	52	22	28	11	13	16	20
361:	14	16	16	18	21	16	17	22

369:	23	18	13	13	17	31	20	13

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Channel								
377:	15	14	23	13	28	21	19	16
385:	18	25	19	27	26	25	20	9
393:	14	15	23	32	16	24	15	19
401:	26	23	29	30	22	17	25	13
409:	31	31	18	27	19	17	30	17
417:	18	25	21	12	24	22	23	21
425:	22	20	12	21	9	26	16	20
433:	19	14	17	25	12	23	14	17
441:	18	14	22	12	14	14	15	16
449:	18	13	12	13	16	12	20	15
457:	15	11	9	11	16	28	20	26
465:	13	9	8	16	9	19	17	14
473:	18	16	7	11	12	10	7	16
481:	15	10	8	15	14	15	17	16
489:	10	10	17	11	14	8	8	10
497:	10	14	14	12	12	16	7	9
505:	9	12	21	24	20	28	63	43
513:	21	13	9	6	9	6	9	12
521:	9	12	12	3	9	8	16	17
529:	9	10	9	18	9	12	12	12
537:	8	10	7	13	15	10	5	9
545:	16	10	4	18	13	9	9	10
553:	10	10	10	9	12	15	11	9
561:	11	11	12	9	13	5	11	13
569:	7	10	11	14	8	5	12	16
577:	6	6	9	21	17	13	53	44
585:	20	12	10	6	10	10	9	14
593:	7	12	8	13	12	16	7	13
601:	10	10	15	10	9	13	19	66
609:	356	430	52	25	13	14	11	9
617:	12	16	9	7	9	8	12	4
625:	7	7	8	5	8	6	7	8
633:	9	15	7	7	4	8	9	11
641:	13	7	8	8	3	10	8	6
649:	12	10	4	12	6	8	8	7
657:	9	11	6	7	8	11	11	12
665:	21	22	9	6	7	10	7	11
673:	13	14	9	3	8	15	7	9
681:	12	8	6	8	8	7	4	15
689:	10	9	5	11	7	6	11	8
697:	7	8	8	10	9	10	14	9
705:	8	7	11	13	7	8	8	16
713:	9	8	10	9	13	7	9	14
721:	9	7	5	11	4	10	16	27
729:	4	11	10	15	6	6	8	7
737:	6	7	7	4	6	10	10	8
745:	4	7	2	4	10	9	10	6
753:	15	10	7	12	9	2	10	7
761:	6	5	7	10	6	7	12	31
769:	38	14	7	8	9	4	7	12
777:	4	8	10	7	5	7	2	9
785:	15	13	5	10	7	6	5	8
793:	6	6	11	9	10	4	6	3

801:	6	7	7	9	9	15	13	8

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Channel								
809:	5	7	7	5	2	6	9	3
817:	2	7	5	10	6	4	8	3
825:	3	5	3	8	7	3	7	9
833:	8	5	6	11	11	10	12	9
841:	8	6	7	13	3	12	8	5
849:	7	8	2	9	3	3	11	5
857:	5	5	9	10	11	5	7	6
865:	6	1	5	5	4	8	3	7
873:	4	5	8	5	8	6	3	6
881:	5	6	6	3	4	9	5	4
889:	9	4	8	10	9	7	10	7
897:	5	7	8	4	6	6	6	7
905:	4	4	5	2	13	17	40	30
913:	12	6	8	5	7	5	8	8
921:	6	6	9	8	3	4	5	5
929:	6	4	5	7	19	21	15	8
937:	6	4	3	9	2	4	8	10
945:	6	5	3	5	7	3	6	3
953:	4	9	8	4	5	5	4	3
961:	4	4	10	16	12	9	7	14
969:	24	20	6	7	7	4	6	2
977:	5	10	6	8	3	10	1	6
985:	7	5	3	2	4	7	6	3
993:	5	1	4	4	4	2	3	5
1001:	11	6	6	3	8	4	4	7
1009:	4	11	8	3	3	7	3	10
1017:	5	12	5	3	7	3	3	5
1025:	4	6	4	5	9	5	7	11
1033:	6	7	7	7	4	9	7	6
1041:	6	3	4	4	6	0	3	1
1049:	10	3	7	11	9	5	12	7
1057:	5	4	10	7	6	4	1	5
1065:	3	2	5	8	5	8	5	3
1073:	2	7	6	3	12	7	2	4
1081:	4	1	5	5	4	1	4	1
1089:	6	6	4	3	5	5	2	1
1097:	6	3	5	7	3	3	3	9
1105:	4	4	6	5	4	7	5	7
1113:	2	5	3	4	7	5	18	97
1121:	73	16	4	7	4	3	7	5
1129:	4	5	5	6	1	6	9	5
1137:	5	5	6	2	5	11	5	5
1145:	9	5	5	4	5	8	4	5
1153:	6	7	14	11	5	5	7	3
1161:	8	7	4	7	7	3	6	5
1169:	4	6	6	3	2	2	7	3
1177:	4	3	3	5	10	6	8	3
1185:	2	7	6	5	4	7	5	3
1193:	5	4	0	5	2	3	5	1
1201:	7	1	8	3	4	2	11	15
1209:	5	7	6	5	2	5	2	5
1217:	2	6	3	6	4	6	1	6
1225:	6	5	5	6	9	5	4	3

1233:	5	4	5	9	19	32	19	4

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Channel								
1241:	6	6	7	2	5	5	12	2
1249:	3	4	2	6	7	5	5	3
1257:	3	5	7	5	3	6	4	3
1265:	5	5	5	3	3	2	2	1
1273:	3	6	4	4	3	1	3	12
1281:	7	4	2	2	8	3	3	7
1289:	5	5	4	1	1	1	4	5
1297:	6	8	5	5	3	3	3	2
1305:	6	3	1	4	4	1	3	3
1313:	3	6	3	7	9	3	3	1
1321:	5	2	6	3	2	2	2	6
1329:	2	2	2	1	3	4	2	3
1337:	3	2	3	6	2	6	2	7
1345:	5	4	4	8	2	3	1	2
1353:	4	6	2	0	1	5	1	4
1361:	3	3	2	3	2	4	2	3
1369:	2	7	3	8	5	1	3	10
1377:	19	24	8	1	4	2	2	4
1385:	9	2	3	4	7	4	4	5
1393:	1	3	2	2	5	4	4	10
1401:	11	7	4	1	6	2	9	13
1409:	9	8	1	3	2	6	3	4
1417:	4	1	0	2	1	3	2	3
1425:	1	7	2	4	3	6	7	3
1433:	1	0	3	5	4	1	4	7
1441:	6	5	2	3	2	1	6	6
1449:	6	5	2	2	2	4	3	3
1457:	1	5	25	89	90	43	7	7
1465:	2	1	1	1	1	4	1	2
1473:	1	4	5	4	4	5	3	3
1481:	1	6	4	1	0	3	1	2
1489:	1	5	2	3	1	4	0	5
1497:	2	1	3	3	3	2	1	2
1505:	2	2	3	7	16	6	2	3
1513:	4	5	2	2	5	3	0	1
1521:	1	1	0	0	2	5	2	0
1529:	3	4	0	3	5	1	3	1
1537:	2	3	4	3	1	4	2	3
1545:	2	2	1	2	2	4	4	5
1553:	4	3	2	3	1	2	3	1
1561:	3	1	4	3	2	1	2	1
1569:	1	1	6	2	3	1	3	1
1577:	2	1	4	2	3	5	2	2
1585:	1	3	4	9	2	1	1	2
1593:	3	1	3	3	2	3	3	0
1601:	2	1	5	3	1	4	1	2
1609:	5	2	2	1	2	0	1	1
1617:	2	3	1	2	4	3	2	4
1625:	2	2	0	3	1	5	3	1
1633:	1	1	4	2	2	3	0	1
1641:	2	1	1	0	3	2	1	0
1649:	1	2	0	2	0	4	1	2
1657:	1	0	4	3	6	9	2	1

1665:	1	2	1	0	1	0	5	2

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Channel								
1673:	0	0	1	0	0	1	1	1
1681:	1	2	1	5	1	3	0	0
1689:	3	2	1	2	2	2	1	3
1697:	0	1	0	1	0	1	2	0
1705:	3	2	3	1	1	1	1	6
1713:	0	1	1	0	1	0	3	3
1721:	1	3	2	1	5	1	2	10
1729:	10	8	9	2	1	1	3	2
1737:	3	1	0	2	4	3	7	2
1745:	1	1	3	1	1	5	0	2
1753:	2	1	0	2	0	2	3	1
1761:	2	4	30	65	35	12	1	0
1769:	1	0	0	0	4	0	0	5
1777:	3	3	1	0	1	2	0	0
1785:	1	0	0	1	1	2	0	2
1793:	2	0	2	3	0	3	1	1
1801:	1	1	3	2	3	2	0	1
1809:	1	3	1	1	0	1	3	3
1817:	3	1	0	0	1	1	3	2
1825:	0	1	0	4	0	0	2	2
1833:	2	3	1	2	0	0	3	1
1841:	0	1	0	1	0	6	10	5
1849:	2	1	0	0	0	0	1	4
1857:	1	0	0	1	1	2	1	2
1865:	1	2	2	0	1	1	1	1
1873:	0	2	2	0	1	0	1	0
1881:	3	1	1	1	0	1	0	0
1889:	2	0	1	2	2	3	4	1
1897:	2	4	0	1	0	1	3	0
1905:	0	0	1	0	0	2	1	1
1913:	1	1	1	1	0	0	1	0
1921:	2	1	2	0	2	0	1	0
1929:	0	0	0	0	0	2	0	1
1937:	0	2	0	0	1	2	1	1
1945:	2	0	3	1	2	2	0	0
1953:	0	1	4	2	1	0	0	2
1961:	0	3	0	0	1	0	1	1
1969:	1	0	1	2	0	1	2	1
1977:	0	0	0	1	0	2	2	0
1985:	0	0	0	1	0	1	1	0
1993:	2	1	2	0	1	0	2	2
2001:	0	0	1	2	1	0	0	1
2009:	2	1	3	0	0	1	1	1
2017:	1	2	0	3	0	1	0	1
2025:	1	1	1	0	1	1	1	1
2033:	0	0	0	1	1	0	1	0
2041:	0	1	0	0	1	1	1	1
2049:	2	0	1	1	1	2	2	1
2057:	3	0	1	2	1	0	0	0
2065:	3	1	2	3	1	0	4	1
2073:	1	1	0	1	0	3	0	0
2081:	1	0	3	1	0	2	2	0
2089:	0	0	1	1	0	1	1	1

2097:	1	2	1	1	0	2	2	0

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Channel								
2105:	2	0	0	0	1	0	0	1
2113:	0	0	0	2	1	7	3	3
2121:	1	2	1	0	1	3	0	0
2129:	1	3	3	0	1	1	0	0
2137:	0	2	1	0	1	0	1	1
2145:	0	1	0	1	2	1	1	0
2153:	1	0	1	0	0	0	1	0
2161:	0	0	2	0	0	1	0	0
2169:	2	0	0	2	1	1	0	2
2177:	1	2	2	0	0	1	0	0
2185:	1	1	0	0	0	4	0	1
2193:	1	3	2	0	1	2	1	0
2201:	0	4	13	16	5	1	0	1
2209:	1	1	1	2	0	1	1	2
2217:	0	0	1	2	0	1	0	2
2225:	0	1	1	0	4	2	0	0
2233:	1	0	1	3	0	0	1	1
2241:	1	1	0	2	0	0	0	0
2249:	0	0	0	0	1	2	1	1
2257:	0	0	2	0	2	3	0	1
2265:	1	0	0	1	0	0	2	1
2273:	0	0	0	0	0	1	1	0
2281:	1	0	1	0	0	1	1	0
2289:	0	1	2	1	2	0	2	0
2297:	0	0	1	0	0	1	1	0
2305:	0	2	1	0	0	1	0	1
2313:	0	3	0	0	0	0	0	0
2321:	2	1	1	1	0	0	1	1
2329:	1	1	2	3	0	1	3	0
2337:	0	0	2	5	0	1	0	2
2345:	0	0	0	0	1	0	0	1
2353:	1	0	2	0	2	0	0	2
2361:	0	1	0	0	2	0	0	0
2369:	1	0	0	2	1	0	1	1
2377:	1	2	1	0	0	0	1	0
2385:	1	1	0	1	1	0	1	2
2393:	0	0	1	0	1	0	2	0
2401:	2	0	1	1	2	0	0	2
2409:	0	1	0	1	1	1	0	1
2417:	0	0	1	0	0	0	1	0
2425:	0	1	0	0	0	0	0	0
2433:	3	0	2	0	0	1	0	1
2441:	1	1	0	1	2	2	4	0
2449:	3	0	0	1	1	0	0	0
2457:	3	0	0	0	0	0	0	0
2465:	0	2	0	0	0	2	0	0
2473:	1	0	0	0	0	0	0	0
2481:	0	0	0	2	0	2	1	0
2489:	0	0	0	0	0	0	2	1
2497:	0	0	0	1	0	0	2	1
2505:	2	0	0	1	1	2	0	0
2513:	0	0	1	0	0	0	1	2
2521:	2	0	0	0	0	0	0	1

2529:	0	0	0	0	0	0	0	0

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Channel								
2537:	0	0	0	0	1	1	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	0	0	1	0	0	0
2561:	1	1	1	1	0	0	0	2
2569:	0	0	0	1	0	0	0	0
2577:	0	1	1	1	0	0	0	2
2585:	0	0	0	0	0	0	0	1
2593:	1	0	0	1	0	0	0	0
2601:	0	0	0	2	0	1	0	0
2609:	0	1	1	5	17	5	6	5
2617:	0	0	1	1	0	0	0	0
2625:	0	0	0	0	2	0	0	1
2633:	0	0	0	1	0	1	0	0
2641:	0	1	0	0	0	0	1	1
2649:	1	0	0	0	0	0	0	0
2657:	0	0	0	0	0	1	0	0
2665:	0	0	0	0	0	1	0	0
2673:	0	0	0	0	0	1	1	0
2681:	0	0	0	1	0	0	0	1
2689:	1	0	0	0	0	1	0	0
2697:	0	0	0	0	0	0	0	0
2705:	1	0	0	0	0	0	0	0
2713:	0	1	0	0	1	0	1	0
2721:	0	1	1	0	0	1	0	0
2729:	1	0	0	0	0	0	0	0
2737:	0	0	0	0	0	0	0	1
2745:	0	0	1	0	0	0	0	0
2753:	0	1	0	0	0	0	1	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	0	0	0	0	2	0
2777:	0	0	0	0	0	0	0	1
2785:	1	0	0	0	0	0	0	0
2793:	0	1	0	0	0	1	0	0
2801:	0	0	1	0	0	0	0	1
2809:	0	2	0	0	0	0	0	1
2817:	0	0	0	0	1	0	0	0
2825:	0	1	0	0	0	1	0	0
2833:	1	0	0	0	1	0	0	0
2841:	0	0	1	0	0	0	1	0
2849:	0	0	0	1	0	0	0	1
2857:	0	0	0	0	0	0	0	1
2865:	1	0	0	0	1	1	1	0
2873:	0	0	0	0	1	0	0	0
2881:	0	0	0	0	1	0	0	0
2889:	0	1	1	0	0	0	1	0
2897:	0	0	0	0	0	0	0	0
2905:	0	2	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	1	0	1	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	1	0	0	0	1	1	0	0
2945:	0	0	0	0	0	0	1	1
2953:	0	1	3	0	0	2	0	0

2961:	0	1	0	1	0	0	0	0

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Channel								
2969:	0	0	0	0	0	1	0	0
2977:	0	0	0	0	0	0	0	0
2985:	1	1	0	0	1	0	0	1
2993:	0	1	0	1	0	1	0	1
3001:	1	0	0	0	0	0	0	0
3009:	0	0	1	0	1	0	0	0
3017:	0	0	0	0	0	1	0	1
3025:	0	0	1	0	0	0	1	0
3033:	0	0	0	0	0	1	0	0
3041:	0	0	0	1	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	1	0	0
3065:	1	0	0	0	0	1	0	0
3073:	0	0	0	1	0	0	0	0
3081:	1	0	0	0	0	0	0	0
3089:	0	0	0	0	0	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	1	0	0	0	0	0
3113:	1	1	0	0	0	0	0	1
3121:	0	0	0	0	2	0	0	0
3129:	1	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	1	0	0	0	0
3153:	0	0	1	1	0	0	0	0
3161:	0	2	0	0	1	0	2	0
3169:	0	0	0	0	0	0	0	2
3177:	0	0	0	0	0	0	1	0
3185:	1	0	0	0	0	0	0	0
3193:	0	2	1	0	0	0	1	0
3201:	1	1	0	0	0	0	1	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	1	0	0	0
3233:	0	1	0	0	0	0	0	0
3241:	1	0	1	0	0	1	0	0
3249:	0	1	0	0	0	1	0	0
3257:	1	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	1	0	0	0	0
3297:	0	1	0	0	0	1	0	0
3305:	0	0	0	0	1	0	0	0
3313:	1	0	0	2	1	0	1	1
3321:	0	1	0	0	0	0	0	0
3329:	0	0	1	0	0	0	0	0
3337:	1	0	0	0	1	0	0	0
3345:	1	0	0	0	1	1	0	0
3353:	0	0	1	0	0	0	0	0
3361:	0	0	0	0	0	0	1	0
3369:	0	0	1	0	0	0	0	1
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	1

Sample Title: FEEBRIS1D-8 075-076

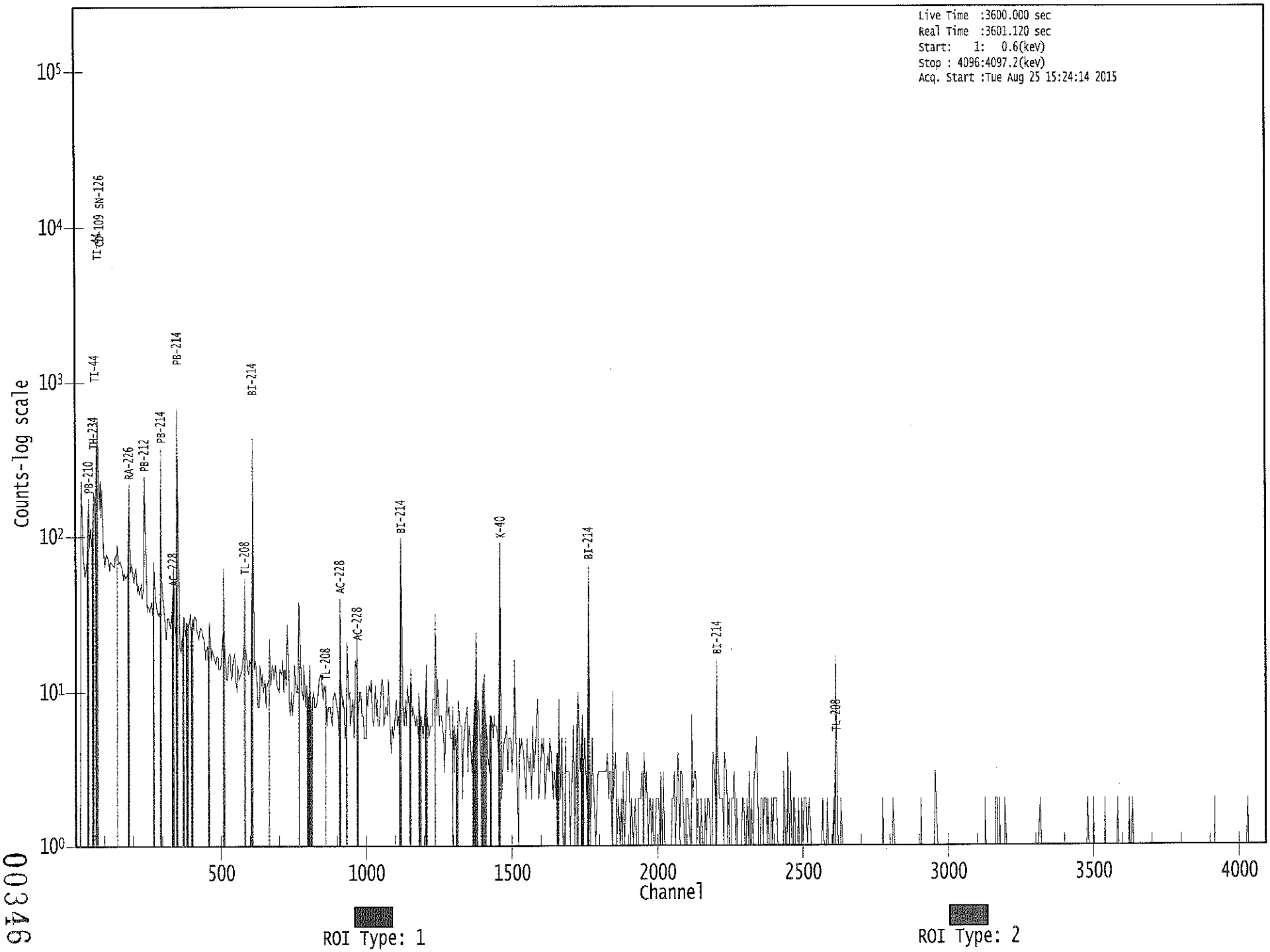
Channel								
3401:	0	0	0	0	1	0	1	1
3409:	0	0	1	0	0	1	0	0
3417:	1	0	0	1	0	0	0	0
3425:	0	0	1	0	0	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	1	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	1
3473:	0	0	1	1	0	0	2	1
3481:	1	2	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	2	0	0	0	0
3505:	0	0	0	1	0	0	1	0
3513:	0	0	0	0	0	0	0	1
3521:	0	1	0	0	1	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	2	0	0	0	0	0
3545:	0	0	0	0	0	1	0	1
3553:	0	0	0	0	0	0	1	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	1	0	0
3577:	0	0	0	1	1	0	1	2
3585:	0	0	0	0	0	0	0	0
3593:	0	0	1	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	1
3617:	0	0	0	1	2	0	1	0
3625:	0	0	0	0	1	0	0	0
3633:	0	2	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	1	0	0	0	0	0	0	1
3657:	1	0	0	1	0	0	0	0
3665:	1	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	0	0	1	0
3697:	0	0	0	0	0	1	0	0
3705:	0	0	0	0	1	0	0	0
3713:	0	0	1	0	1	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	1
3737:	0	1	0	0	1	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	1	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	1	0	1	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	0	0	0
3801:	1	0	0	1	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	1	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
3833:	0	0	0	1	0	0	0	0
3841:	0	0	1	0	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	0	0	0	1	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	1	0	0	0	0	0	0	0
3881:	1	0	0	0	0	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	0	0	0	0	1	0	0	0
3905:	0	0	0	1	0	0	0	0
3913:	0	1	0	2	1	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	0	1	0	0	0	1	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	1	0	1	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	1	0	0	0	0
3985:	0	0	0	0	1	0	0	0
3993:	0	0	0	0	0	1	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	1	0
4017:	1	0	0	0	0	0	0	0
4025:	1	0	0	0	0	2	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	0	1	0	0	0	0	1	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	1	0	0	0	0	0	0	0
4081:	0	1	0	0	0	0	0	0
4089:	0	0	0	1	0	0	0	0

0000026402.CNF



00346

Apex-Gamma

Analysis Report for 1508002-04
FEEBRIS1D-8 075-076

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-04
Sample Description	: FEEBRIS1D-8 075-076
Sample Type	: SOIL
Sample Size	: 3.257E+02 grams
Facility	: Countroom
Sample Taken On	: 7/29/2015 10:34:45AM
Acquisition Started	: 8/25/2015 4:24:30PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26411

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 5:24:35PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.55	46.91	0.0000	0.00
2	74.94	75.28	0.0000	0.00
3	77.41	77.75	0.0000	0.00
4	87.80	88.13	0.0000	0.00
5	186.50	186.80	0.0000	0.00
6	238.56	238.85	0.0000	0.00
7	241.87	242.15	0.0000	0.00
8	272.19	272.46	0.0000	0.00
9	295.26	295.53	0.0000	0.00
10	338.53	338.79	0.0000	0.00
11	351.99	352.24	0.0000	0.00
12	447.56	447.77	0.0000	0.00
13	454.54	454.76	0.0000	0.00
14	511.06	511.25	0.0000	0.00
15	582.80	582.97	0.0000	0.00
16	609.41	609.57	0.0000	0.00
17	627.70	627.85	0.0000	0.00
18	704.50	704.63	0.0000	0.00
19	724.20	724.32	0.0000	0.00
20	768.47	768.57	0.0000	0.00
21	795.18	795.28	0.0000	0.00
22	805.51	805.60	0.0000	0.00
23	911.32	911.37	0.0000	0.00
24	934.10	934.15	0.0000	0.00
25	964.72	964.76	0.0000	0.00
26	968.54	968.57	0.0000	0.00
27	1046.03	1046.04	0.0000	0.00
28	1075.82	1075.82	0.0000	0.00
29	1120.36	1120.34	0.0000	0.00
30	1237.77	1237.71	0.0000	0.00
31	1260.38	1260.31	0.0000	0.00
32	1286.48	1286.40	0.0000	0.00
33	1377.14	1377.03	0.0000	0.00
34	1385.66	1385.55	0.0000	0.00
35	1400.58	1400.46	0.0000	0.00
36	1407.82	1407.70	0.0000	0.00
37	1460.86	1460.72	0.0000	0.00
38	1479.35	1479.20	0.0000	0.00
39	1509.81	1509.65	0.0000	0.00
40	1526.05	1525.88	0.0000	0.00
41	1582.51	1582.32	0.0000	0.00
42	1589.60	1589.41	0.0000	0.00

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1661.23	1661.01	0.0000	0.00
44	1729.35	1729.10	0.0000	0.00
45	1764.53	1764.28	0.0000	0.00
46	1847.49	1847.20	0.0000	0.00
47	1865.14	1864.85	0.0000	0.00
48	1934.46	1934.14	0.0000	0.00
49	2004.40	2004.05	0.0000	0.00
50	2118.50	2118.11	0.0000	0.00
51	2183.95	2183.53	0.0000	0.00
52	2204.09	2203.67	0.0000	0.00
53	2366.31	2365.83	0.0000	0.00
54	2447.88	2447.37	0.0000	0.00
55	2614.19	2613.60	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.55	44	49	46.91	1.36E+02	66.85	7.88E+02	1.18
M	2	74.94	73	83	75.28	4.77E+02	90.99	1.16E+03	1.60
m	3	77.41	73	83	77.75	7.14E+02	99.61	1.14E+03	1.61
m	4	87.80	83	91	88.13	2.13E+02	63.81	8.42E+02	1.48
	5	186.50	184	191	186.80	3.32E+02	75.66	7.41E+02	1.89
M	6	238.56	235	245	238.85	3.89E+02	54.69	3.57E+02	1.68
m	7	241.87	235	245	242.15	3.72E+02	57.19	2.94E+02	1.68
	8	272.19	265	279	272.46	9.92E+01	88.26	7.72E+02	8.54
	9	295.26	291	298	295.53	6.94E+02	72.44	4.12E+02	1.95
	10	338.53	336	342	338.79	7.44E+01	43.83	2.97E+02	1.58
	11	351.99	348	356	352.24	1.19E+03	86.39	4.18E+02	1.60
	12	447.56	445	451	447.77	3.17E+01	32.50	1.71E+02	2.18
	13	454.54	451	458	454.76	3.09E+01	35.10	1.78E+02	3.07
	14	511.06	507	515	511.25	1.31E+02	39.71	1.63E+02	2.69
	15	582.80	577	588	582.97	1.62E+02	48.25	2.10E+02	1.90
	16	609.41	605	615	609.57	8.65E+02	68.86	1.71E+02	2.02
	17	627.70	625	630	627.85	2.25E+01	20.66	6.51E+01	2.67
	18	704.50	701	709	704.63	3.55E+01	33.71	1.53E+02	4.33
	19	724.20	717	731	724.32	6.67E+01	46.81	2.03E+02	9.30
	20	768.47	765	773	768.57	5.87E+01	35.56	1.61E+02	2.04
	21	795.18	793	798	795.28	1.98E+01	19.82	6.25E+01	1.34
	22	805.51	800	809	805.60	4.26E+01	27.66	8.48E+01	1.92
	23	911.32	907	915	911.37	7.92E+01	30.48	9.36E+01	1.90
	24	934.10	930	938	934.15	5.03E+01	28.94	9.53E+01	2.27
M	25	964.72	959	973	964.76	2.45E+01	21.27	7.25E+01	2.24
m	26	968.54	959	973	968.57	4.16E+01	26.15	6.33E+01	2.65
	27	1046.03	1043	1049	1046.04	1.69E+01	17.99	4.23E+01	3.42
	28	1075.82	1067	1084	1075.82	4.68E+01	34.09	8.24E+01	12.73
	29	1120.36	1116	1126	1120.34	1.69E+02	37.18	9.62E+01	2.40
	30	1237.77	1233	1242	1237.71	6.89E+01	31.83	1.06E+02	1.42
	31	1260.38	1251	1269	1260.31	3.35E+01	35.02	9.50E+01	13.21
	32	1286.48	1276	1297	1286.40	6.05E+01	35.14	7.30E+01	13.20
M	33	1377.14	1372	1391	1377.03	4.67E+01	20.20	3.35E+01	2.62
m	34	1385.66	1372	1391	1385.55	1.29E+01	17.44	5.01E+01	2.62
	35	1400.58	1396	1404	1400.46	2.88E+01	13.13	8.30E+00	4.22
	36	1407.82	1405	1412	1407.70	2.83E+01	18.97	4.34E+01	2.78
	37	1460.86	1454	1467	1460.72	2.23E+02	38.17	6.18E+01	2.38
	38	1479.35	1474	1483	1479.20	2.02E+01	17.03	2.97E+01	1.88
	39	1509.81	1505	1514	1509.65	2.32E+01	21.79	5.35E+01	2.03
	40	1526.05	1521	1529	1525.88	1.65E+01	16.42	3.10E+01	1.10

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1582.51	1579 -	1585	1582.32	1.12E+01	12.55	1.96E+01	1.91
42	1589.60	1585 -	1594	1589.41	2.14E+01	16.16	2.53E+01	6.82
43	1661.23	1658 -	1663	1661.01	7.70E+00	10.25	1.46E+01	2.13
44	1729.35	1725 -	1733	1729.10	2.20E+01	18.61	3.80E+01	2.51
45	1764.53	1760 -	1769	1764.28	1.39E+02	25.02	1.00E+01	2.14
46	1847.49	1843 -	1851	1847.20	1.60E+01	13.45	1.80E+01	1.45
47	1865.14	1862 -	1868	1864.85	5.50E+00	7.78	7.00E+00	1.45
48	1934.46	1931 -	1937	1934.14	7.00E+00	5.29	0.00E+00	1.98
49	2004.40	2000 -	2008	2004.05	8.64E+00	8.02	4.73E+00	3.79
50	2118.50	2113 -	2123	2118.11	2.26E+01	11.41	4.84E+00	1.94
51	2183.95	2180 -	2186	2183.53	4.33E+00	6.02	3.33E+00	1.64
52	2204.09	2200 -	2207	2203.67	3.64E+01	13.86	7.25E+00	2.15
53	2366.31	2362 -	2369	2365.83	7.95E+00	7.48	4.10E+00	5.25
54	2447.88	2444 -	2450	2447.37	9.90E+00	9.84	1.02E+01	2.21
55	2614.19	2610 -	2618	2613.60	4.80E+01	13.86	0.00E+00	3.13

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.55	44 -	49	1.36E+02	66.85	7.88E+02	5.15E+01
M	2	74.94	73 -	83	4.77E+02	90.99	1.16E+03	5.59E+01
m	3	77.41	73 -	83	7.14E+02	99.61	1.14E+03	5.56E+01
m	4	87.80	83 -	91	2.13E+02	63.81	8.42E+02	4.77E+01
	5	186.50	184 -	191	3.32E+02	75.66	7.41E+02	5.45E+01
M	6	238.56	235 -	245	3.89E+02	54.69	3.57E+02	3.11E+01
m	7	241.87	235 -	245	3.72E+02	57.19	2.94E+02	2.82E+01
	8	272.19	265 -	279	9.92E+01	88.26	7.72E+02	7.07E+01
	9	295.26	291 -	298	6.94E+02	72.44	4.12E+02	4.09E+01
	10	338.53	336 -	342	7.44E+01	43.83	2.97E+02	3.31E+01
	11	351.99	348 -	356	1.19E+03	86.39	4.18E+02	4.29E+01
	12	447.56	445 -	451	3.17E+01	32.50	1.71E+02	2.51E+01
	13	454.54	451 -	458	3.09E+01	35.10	1.78E+02	2.74E+01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	14	511.06	507 -	515	1.31E+02	39.71	1.63E+02	2.67E+01
	15	582.80	577 -	588	1.62E+02	48.25	2.10E+02	3.37E+01
	16	609.41	605 -	615	8.65E+02	68.86	1.71E+02	2.94E+01
	17	627.70	625 -	630	2.25E+01	20.66	6.51E+01	1.51E+01
	18	704.50	701 -	709	3.55E+01	33.71	1.53E+02	2.59E+01
	19	724.20	717 -	731	6.67E+01	46.81	2.03E+02	3.61E+01
	20	768.47	765 -	773	5.87E+01	35.56	1.61E+02	2.64E+01
	21	795.18	793 -	798	1.98E+01	19.82	6.25E+01	1.46E+01
	22	805.51	800 -	809	4.26E+01	27.66	8.48E+01	2.00E+01
	23	911.32	907 -	915	7.92E+01	30.48	9.36E+01	2.03E+01
	24	934.10	930 -	938	5.03E+01	28.94	9.53E+01	2.07E+01
M	25	964.72	959 -	973	2.45E+01	21.27	7.25E+01	1.40E+01
m	26	968.54	959 -	973	4.16E+01	26.15	6.33E+01	1.31E+01
	27	1046.03	1043 -	1049	1.69E+01	17.99	4.23E+01	1.32E+01
	28	1075.82	1067 -	1084	4.68E+01	34.09	8.24E+01	2.57E+01
	29	1120.36	1116 -	1126	1.69E+02	37.18	9.62E+01	2.19E+01
	30	1237.77	1233 -	1242	6.89E+01	31.83	1.06E+02	2.23E+01
	31	1260.38	1251 -	1269	3.35E+01	35.02	9.50E+01	2.72E+01
	32	1286.48	1276 -	1297	6.05E+01	35.14	7.30E+01	2.59E+01
M	33	1377.14	1372 -	1391	4.67E+01	20.20	3.35E+01	9.52E+00
m	34	1385.66	1372 -	1391	1.29E+01	17.44	5.01E+01	1.16E+01
	35	1400.58	1396 -	1404	2.88E+01	13.13	8.30E+00	6.21E+00
	36	1407.82	1405 -	1412	2.83E+01	18.97	4.34E+01	1.29E+01
	37	1460.86	1454 -	1467	2.23E+02	38.17	6.18E+01	1.95E+01
	38	1479.35	1474 -	1483	2.02E+01	17.03	2.97E+01	1.19E+01
	39	1509.81	1505 -	1514	2.32E+01	21.79	5.35E+01	1.61E+01
	40	1526.05	1521 -	1529	1.65E+01	16.42	3.10E+01	1.17E+01
	41	1582.51	1579 -	1585	1.12E+01	12.55	1.96E+01	8.73E+00
	42	1589.60	1585 -	1594	2.14E+01	16.16	2.53E+01	1.09E+01
	43	1661.23	1658 -	1663	7.70E+00	10.25	1.46E+01	7.08E+00
	44	1729.35	1725 -	1733	2.20E+01	18.61	3.80E+01	1.32E+01
	45	1764.53	1760 -	1769	1.39E+02	25.02	1.00E+01	6.88E+00
	46	1847.49	1843 -	1851	1.60E+01	13.45	1.80E+01	8.89E+00
	47	1865.14	1862 -	1868	5.50E+00	7.78	7.00E+00	5.10E+00
	48	1934.46	1931 -	1937	7.00E+00	5.29	0.00E+00	0.00E+00
	49	2004.40	2000 -	2008	8.64E+00	8.02	4.73E+00	4.48E+00
	50	2118.50	2113 -	2123	2.26E+01	11.41	4.84E+00	5.19E+00
	51	2183.95	2180 -	2186	4.33E+00	6.02	3.33E+00	3.58E+00
	52	2204.09	2200 -	2207	3.64E+01	13.86	7.25E+00	5.61E+00
	53	2366.31	2362 -	2369	7.95E+00	7.48	4.10E+00	4.04E+00
	54	2447.88	2444 -	2450	9.90E+00	9.84	1.02E+01	6.21E+00
	55	2614.19	2610 -	2618	4.80E+01	13.86	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.55	44 -	49	46.91	1.36E+02	66.85	7.88E+02	PB-210
M	2	74.94	73 -	83	75.28	4.77E+02	90.99	1.16E+03	AM-243
m	3	77.41	73 -	83	77.75	7.14E+02	99.61	1.14E+03	TI-44
m	4	87.80	83 -	91	88.13	2.13E+02	63.81	8.42E+02	SN-126 CD-109 LU-176
	5	186.50	184 -	191	186.80	3.32E+02	75.66	7.41E+02	RA-226
M	6	238.56	235 -	245	238.85	3.89E+02	54.69	3.57E+02	PB-212
m	7	241.87	235 -	245	242.15	3.72E+02	57.19	2.94E+02	RA-224
	8	272.19	265 -	279	272.46	9.92E+01	88.26	7.72E+02	LU-173
	9	295.26	291 -	298	295.53	6.94E+02	72.44	4.12E+02	PB-214
	10	338.53	336 -	342	338.79	7.44E+01	43.83	2.97E+02	AC-228
	11	351.99	348 -	356	352.24	1.19E+03	86.39	4.18E+02	PB-214
	12	447.56	445 -	451	447.77	3.17E+01	32.50	1.71E+02	.....
	13	454.54	451 -	458	454.76	3.09E+01	35.10	1.78E+02	PM-146
	14	511.06	507 -	515	511.25	1.31E+02	39.71	1.63E+02	.....
	15	582.80	577 -	588	582.97	1.62E+02	48.25	2.10E+02	TL-208
	16	609.41	605 -	615	609.57	8.65E+02	68.86	1.71E+02	BI-214
	17	627.70	625 -	630	627.85	2.25E+01	20.66	6.51E+01	.....
	18	704.50	701 -	709	704.63	3.55E+01	33.71	1.53E+02	.....
	19	724.20	717 -	731	724.32	6.67E+01	46.81	2.03E+02	ZR-95 EU-154
	20	768.47	765 -	773	768.57	5.87E+01	35.56	1.61E+02	.....
	21	795.18	793 -	798	795.28	1.98E+01	19.82	6.25E+01	CS-134
	22	805.51	800 -	809	805.60	4.26E+01	27.66	8.48E+01	.....
	23	911.32	907 -	915	911.37	7.92E+01	30.48	9.36E+01	AC-228 LU-172
	24	934.10	930 -	938	934.15	5.03E+01	28.94	9.53E+01	.....
M	25	964.72	959 -	973	964.76	2.45E+01	21.27	7.25E+01	EU-152
m	26	968.54	959 -	973	968.57	4.16E+01	26.15	6.33E+01	AC-228
	27	1046.03	1043 -	1049	1046.04	1.69E+01	17.99	4.23E+01	.....
	28	1075.82	1067 -	1084	1075.82	4.68E+01	34.09	8.24E+01	.....
	29	1120.36	1116 -	1126	1120.34	1.69E+02	37.18	9.62E+01	BI-214 SC-46 TA-182
	30	1237.77	1233 -	1242	1237.71	6.89E+01	31.83	1.06E+02	CO-56
	31	1260.38	1251 -	1269	1260.31	3.35E+01	35.02	9.50E+01	I-135
	32	1286.48	1276 -	1297	1286.40	6.05E+01	35.14	7.30E+01	.....

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	33	1377.14	1372 -	1391	1377.03	4.67E+01	20.20	3.35E+01	.....
m	34	1385.66	1372 -	1391	1385.55	1.29E+01	17.44	5.01E+01	.....
	35	1400.58	1396 -	1404	1400.46	2.88E+01	13.13	8.30E+00	.....
	36	1407.82	1405 -	1412	1407.70	2.83E+01	18.97	4.34E+01	EU-152
	37	1460.86	1454 -	1467	1460.72	2.23E+02	38.17	6.18E+01	K-40
	38	1479.35	1474 -	1483	1479.20	2.02E+01	17.03	2.97E+01	.....
	39	1509.81	1505 -	1514	1509.65	2.32E+01	21.79	5.35E+01	.....
	40	1526.05	1521 -	1529	1525.88	1.65E+01	16.42	3.10E+01	.....
	41	1582.51	1579 -	1585	1582.32	1.12E+01	12.55	1.96E+01	.....
	42	1589.60	1585 -	1594	1589.41	2.14E+01	16.16	2.53E+01	.....
	43	1661.23	1658 -	1663	1661.01	7.70E+00	10.25	1.46E+01	.....
	44	1729.35	1725 -	1733	1729.10	2.20E+01	18.61	3.80E+01	.....
	45	1764.53	1760 -	1769	1764.28	1.39E+02	25.02	1.00E+01	BI-214
	46	1847.49	1843 -	1851	1847.20	1.60E+01	13.45	1.80E+01	.....
	47	1865.14	1862 -	1868	1864.85	5.50E+00	7.78	7.00E+00	.....
	48	1934.46	1931 -	1937	1934.14	7.00E+00	5.29	0.00E+00	.....
	49	2004.40	2000 -	2008	2004.05	8.64E+00	8.02	4.73E+00	.....
	50	2118.50	2113 -	2123	2118.11	2.26E+01	11.41	4.84E+00	.....
	51	2183.95	2180 -	2186	2183.53	4.33E+00	6.02	3.33E+00	.....
	52	2204.09	2200 -	2207	2203.67	3.64E+01	13.86	7.25E+00	BI-214
	53	2366.31	2362 -	2369	2365.83	7.95E+00	7.48	4.10E+00	.....
	54	2447.88	2444 -	2450	2447.37	9.90E+00	9.84	1.02E+01	.....
	55	2614.19	2610 -	2618	2613.60	4.80E+01	13.86	0.00E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.55	1.36E+02	66.85	1.68E-02	1.78E-03
M	2	74.94	4.77E+02	90.99	2.75E-02	2.30E-03
m	3	77.41	7.14E+02	99.61	2.78E-02	2.38E-03
m	4	87.80	2.13E+02	63.81	2.85E-02	2.73E-03
	5	186.50	3.32E+02	75.66	2.24E-02	2.02E-03
M	6	238.56	3.89E+02	54.69	1.92E-02	1.64E-03
m	7	241.87	3.72E+02	57.19	1.91E-02	1.61E-03

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	8	272.19	9.92E+01	88.26	1.76E-02	1.39E-03
	9	295.26	6.94E+02	72.44	1.67E-02	1.31E-03
	10	338.53	7.44E+01	43.83	1.52E-02	1.22E-03
	11	351.99	1.19E+03	86.39	1.48E-02	1.19E-03
	12	447.56	3.17E+01	32.50	1.24E-02	1.06E-03
	13	454.54	3.09E+01	35.10	1.23E-02	1.05E-03
	14	511.06	1.31E+02	39.71	1.12E-02	9.90E-04
	15	582.80	1.62E+02	48.25	1.02E-02	9.16E-04
	16	609.41	8.65E+02	68.86	9.83E-03	8.88E-04
	17	627.70	2.25E+01	20.66	9.60E-03	8.69E-04
	18	704.50	3.55E+01	33.71	8.77E-03	7.96E-04
	19	724.20	6.67E+01	46.81	8.58E-03	7.78E-04
	20	768.47	5.87E+01	35.56	8.19E-03	7.38E-04
	21	795.18	1.98E+01	19.82	7.97E-03	7.15E-04
	22	805.51	4.26E+01	27.66	7.89E-03	7.05E-04
	23	911.32	7.92E+01	30.48	7.15E-03	6.15E-04
	24	934.10	5.03E+01	28.94	7.01E-03	6.04E-04
M	25	964.72	2.45E+01	21.27	6.83E-03	5.88E-04
m	26	968.54	4.16E+01	26.15	6.81E-03	5.86E-04
	27	1046.03	1.69E+01	17.99	6.40E-03	5.45E-04
	28	1075.82	4.68E+01	34.09	6.26E-03	5.30E-04
	29	1120.36	1.69E+02	37.18	6.07E-03	5.07E-04
	30	1237.77	6.89E+01	31.83	5.62E-03	4.68E-04
	31	1260.38	3.35E+01	35.02	5.54E-03	4.64E-04
	32	1286.48	6.05E+01	35.14	5.45E-03	4.59E-04
M	33	1377.14	4.67E+01	20.20	5.19E-03	4.40E-04
m	34	1385.66	1.29E+01	17.44	5.16E-03	4.38E-04
	35	1400.58	2.88E+01	13.13	5.12E-03	4.34E-04
	36	1407.82	2.83E+01	18.97	5.10E-03	4.32E-04
	37	1460.86	2.23E+02	38.17	4.97E-03	4.19E-04
	38	1479.35	2.02E+01	17.03	4.93E-03	4.15E-04
	39	1509.81	2.32E+01	21.79	4.86E-03	4.07E-04
	40	1526.05	1.65E+01	16.42	4.82E-03	4.03E-04
	41	1582.51	1.12E+01	12.55	4.71E-03	3.89E-04
	42	1589.60	2.14E+01	16.16	4.69E-03	3.87E-04
	43	1661.23	7.70E+00	10.25	4.56E-03	3.69E-04
	44	1729.35	2.20E+01	18.61	4.45E-03	3.52E-04
	45	1764.53	1.39E+02	25.02	4.40E-03	3.44E-04
	46	1847.49	1.60E+01	13.45	4.28E-03	3.26E-04
	47	1865.14	5.50E+00	7.78	4.26E-03	3.26E-04
	48	1934.46	7.00E+00	5.29	4.18E-03	3.26E-04
	49	2004.40	8.64E+00	8.02	4.11E-03	3.26E-04
	50	2118.50	2.26E+01	11.41	4.01E-03	3.26E-04
	51	2183.95	4.33E+00	6.02	3.96E-03	3.26E-04
	52	2204.09	3.64E+01	13.86	3.95E-03	3.26E-04
	53	2366.31	7.95E+00	7.48	3.86E-03	3.26E-04
	54	2447.88	9.90E+00	9.84	3.83E-03	3.26E-04
	55	2614.19	4.80E+01	13.86	3.79E-03	3.26E-04

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.55	1.36E+02	66.85	4.02E+01	8.43E+00	9.60E+01	6.74E+01
M	2	74.94	4.77E+02	90.99			4.77E+02	9.10E+01
m	3	77.41	7.14E+02	99.61	1.60E+01	8.83E+00	6.98E+02	1.00E+02
m	4	87.80	2.13E+02	63.81			2.13E+02	6.38E+01
	5	186.50	3.32E+02	75.66	6.47E+01	7.53E+00	2.68E+02	7.60E+01
M	6	238.56	3.89E+02	54.69	1.73E+01	6.30E+00	3.72E+02	5.50E+01
m	7	241.87	3.72E+02	57.19			3.72E+02	5.72E+01
	8	272.19	9.92E+01	88.26			9.92E+01	8.83E+01
	9	295.26	6.94E+02	72.44	0.00E+00	0.00E+00	6.94E+02	7.24E+01
	10	338.53	7.44E+01	43.83			7.44E+01	4.38E+01
	11	351.99	1.19E+03	86.39	9.78E+00	4.40E+00	1.18E+03	8.65E+01
	12	447.56	3.17E+01	32.50			3.17E+01	3.25E+01
	13	454.54	3.09E+01	35.10			3.09E+01	3.51E+01
	14	511.06	1.31E+02	39.71	7.82E+01	5.46E+00	5.25E+01	4.01E+01
	15	582.80	1.62E+02	48.25	4.53E+00	3.34E+00	1.57E+02	4.84E+01
	16	609.41	8.65E+02	68.86	8.81E+00	3.15E+00	8.56E+02	6.89E+01
	17	627.70	2.25E+01	20.66			2.25E+01	2.07E+01
	18	704.50	3.55E+01	33.71			3.55E+01	3.37E+01
	19	724.20	6.67E+01	46.81			6.67E+01	4.68E+01
	20	768.47	5.87E+01	35.56			5.87E+01	3.56E+01
	21	795.18	1.98E+01	19.82			1.98E+01	1.98E+01
	22	805.51	4.26E+01	27.66			4.26E+01	2.77E+01
	23	911.32	7.92E+01	30.48	4.29E+00	2.56E+00	7.49E+01	3.06E+01
	24	934.10	5.03E+01	28.94			5.03E+01	2.89E+01
M	25	964.72	2.45E+01	21.27			2.45E+01	2.13E+01
m	26	968.54	4.16E+01	26.15			4.16E+01	2.62E+01
	27	1046.03	1.69E+01	17.99			1.69E+01	1.80E+01
	28	1075.82	4.68E+01	34.09			4.68E+01	3.41E+01
	29	1120.36	1.69E+02	37.18			1.69E+02	3.72E+01
	30	1237.77	6.89E+01	31.83			6.89E+01	3.18E+01
	31	1260.38	3.35E+01	35.02			3.35E+01	3.50E+01
	32	1286.48	6.05E+01	35.14			6.05E+01	3.51E+01
M	33	1377.14	4.67E+01	20.20			4.67E+01	2.02E+01
m	34	1385.66	1.29E+01	17.44			1.29E+01	1.74E+01
	35	1400.58	2.88E+01	13.13			2.88E+01	1.31E+01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
36	1407.82	2.83E+01	18.97			2.83E+01	1.90E+01
37	1460.86	2.23E+02	38.17	5.85E+00	2.19E+00	2.17E+02	3.82E+01
38	1479.35	2.02E+01	17.03			2.02E+01	1.70E+01
39	1509.81	2.32E+01	21.79			2.32E+01	2.18E+01
40	1526.05	1.65E+01	16.42			1.65E+01	1.64E+01
41	1582.51	1.12E+01	12.55			1.12E+01	1.25E+01
42	1589.60	2.14E+01	16.16			2.14E+01	1.62E+01
43	1661.23	7.70E+00	10.25			7.70E+00	1.02E+01
44	1729.35	2.20E+01	18.61			2.20E+01	1.86E+01
45	1764.53	1.39E+02	25.02			1.39E+02	2.50E+01
46	1847.49	1.60E+01	13.45			1.60E+01	1.35E+01
47	1865.14	5.50E+00	7.78			5.50E+00	7.78E+00
48	1934.46	7.00E+00	5.29			7.00E+00	5.29E+00
49	2004.40	8.64E+00	8.02			8.64E+00	8.02E+00
50	2118.50	2.26E+01	11.41			2.26E+01	1.14E+01
51	2183.95	4.33E+00	6.02			4.33E+00	6.02E+00
52	2204.09	3.64E+01	13.86	1.36E-01	1.12E+00	3.62E+01	1.39E+01
53	2366.31	7.95E+00	7.48			7.95E+00	7.48E+00
54	2447.88	9.90E+00	9.84			9.90E+00	9.84E+00
55	2614.19	4.80E+01	13.86	5.15E+00	1.50E+00	4.29E+01	1.39E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 5:24:35PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.55	1.36E+02	66.85	4.02E+01	8.43E+00	9.60E+01	6.74E+01
M	2	74.94	4.77E+02	90.99			4.77E+02	9.10E+01
m	3	77.41	7.14E+02	99.61	1.60E+01	8.83E+00	6.98E+02	1.00E+02
m	4	87.80	2.13E+02	63.81			2.13E+02	6.38E+01
	5	186.50	3.32E+02	75.66	6.47E+01	7.53E+00	2.68E+02	7.60E+01
M	6	238.56	3.89E+02	54.69	1.73E+01	6.30E+00	3.72E+02	5.50E+01
m	7	241.87	3.72E+02	57.19			3.72E+02	5.72E+01
	8	272.19	9.92E+01	88.26			9.92E+01	8.83E+01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	9	295.26	6.94E+02	72.44	0.00E+00	0.00E+00	6.94E+02	7.24E+01
	10	338.53	7.44E+01	43.83			7.44E+01	4.38E+01
	11	351.99	1.19E+03	86.39	9.78E+00	4.40E+00	1.18E+03	8.65E+01
	12	447.56	3.17E+01	32.50			3.17E+01	3.25E+01
	13	454.54	3.09E+01	35.10			3.09E+01	3.51E+01
	14	511.06	1.31E+02	39.71	7.82E+01	5.46E+00	5.25E+01	4.01E+01
	15	582.80	1.62E+02	48.25	4.53E+00	3.34E+00	1.57E+02	4.84E+01
	16	609.41	8.65E+02	68.86	8.81E+00	3.15E+00	8.56E+02	6.89E+01
	17	627.70	2.25E+01	20.66			2.25E+01	2.07E+01
	18	704.50	3.55E+01	33.71			3.55E+01	3.37E+01
	19	724.20	6.67E+01	46.81			6.67E+01	4.68E+01
	20	768.47	5.87E+01	35.56			5.87E+01	3.56E+01
	21	795.18	1.98E+01	19.82			1.98E+01	1.98E+01
	22	805.51	4.26E+01	27.66			4.26E+01	2.77E+01
	23	911.32	7.92E+01	30.48	4.29E+00	2.56E+00	7.49E+01	3.06E+01
	24	934.10	5.03E+01	28.94			5.03E+01	2.89E+01
M	25	964.72	2.45E+01	21.27			2.45E+01	2.13E+01
m	26	968.54	4.16E+01	26.15			4.16E+01	2.62E+01
	27	1046.03	1.69E+01	17.99			1.69E+01	1.80E+01
	28	1075.82	4.68E+01	34.09			4.68E+01	3.41E+01
	29	1120.36	1.69E+02	37.18			1.69E+02	3.72E+01
	30	1237.77	6.89E+01	31.83			6.89E+01	3.18E+01
	31	1260.38	3.35E+01	35.02			3.35E+01	3.50E+01
	32	1286.48	6.05E+01	35.14			6.05E+01	3.51E+01
M	33	1377.14	4.67E+01	20.20			4.67E+01	2.02E+01
m	34	1385.66	1.29E+01	17.44			1.29E+01	1.74E+01
	35	1400.58	2.88E+01	13.13			2.88E+01	1.31E+01
	36	1407.82	2.83E+01	18.97			2.83E+01	1.90E+01
	37	1460.86	2.23E+02	38.17	5.85E+00	2.19E+00	2.17E+02	3.82E+01
	38	1479.35	2.02E+01	17.03			2.02E+01	1.70E+01
	39	1509.81	2.32E+01	21.79			2.32E+01	2.18E+01
	40	1526.05	1.65E+01	16.42			1.65E+01	1.64E+01
	41	1582.51	1.12E+01	12.55			1.12E+01	1.25E+01
	42	1589.60	2.14E+01	16.16			2.14E+01	1.62E+01
	43	1661.23	7.70E+00	10.25			7.70E+00	1.02E+01
	44	1729.35	2.20E+01	18.61			2.20E+01	1.86E+01
	45	1764.53	1.39E+02	25.02			1.39E+02	2.50E+01
	46	1847.49	1.60E+01	13.45			1.60E+01	1.35E+01
	47	1865.14	5.50E+00	7.78			5.50E+00	7.78E+00
	48	1934.46	7.00E+00	5.29			7.00E+00	5.29E+00
	49	2004.40	8.64E+00	8.02			8.64E+00	8.02E+00
	50	2118.50	2.26E+01	11.41			2.26E+01	1.14E+01
	51	2183.95	4.33E+00	6.02			4.33E+00	6.02E+00
	52	2204.09	3.64E+01	13.86	1.36E-01	1.12E+00	3.62E+01	1.39E+01
	53	2366.31	7.95E+00	7.48			7.95E+00	7.48E+00
	54	2447.88	9.90E+00	9.84			9.90E+00	9.84E+00
	55	2614.19	4.80E+01	13.86	5.15E+00	1.50E+00	4.29E+01	1.39E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.000	1460.81	*	10.67	9.44E+00	1.85E+00
CD-109	0.991	88.03	*	3.72	4.82E+00	1.54E+00
SN-126	0.992	87.57	*	37.00	4.66E-01	1.46E-01
PM-146	0.386	453.90	*	39.94	1.47E-01	1.67E-01
		735.90		14.01		
		747.13		13.10		
LU-173	0.617	100.72		5.24		
		272.11	*	21.20	6.35E-01	5.67E-01
TL-208	0.865	583.14	*	30.22	1.18E+00	3.78E-01
		860.37		4.48		
		2614.66	*	35.85	7.26E-01	2.44E-01
PB-210	1.000	46.50	*	4.25	3.10E+00	2.20E+00
PB-212	0.893	238.63	*	44.60	9.99E-01	1.71E-01
		300.09		3.41		
BI-214	0.999	609.31	*	46.30	4.34E+00	5.25E-01
		1120.29	*	15.10	4.25E+00	1.00E+00
		1764.49	*	15.80	4.61E+00	9.05E-01
		2204.22	*	4.98	4.25E+00	1.67E+00
PB-214	0.999	295.21	*	19.19	4.99E+00	6.52E-01
		351.92	*	37.19	4.94E+00	5.40E-01
RA-224	0.882	240.98	*	3.95	1.14E+01	2.00E+00
RA-226	0.987	186.21	*	3.28	8.42E+00	1.56E+01
AC-228	0.978	338.32	*	11.40	9.92E-01	5.89E-01
		911.07	*	27.70	8.72E-01	3.64E-01
		969.11	*	16.60	8.48E-01	5.38E-01
AM-243	0.989	74.67	*	66.00	6.07E-01	1.26E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:35PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.41	1.93808E-01	7.17		
	12	447.56	8.79274E-03	51.33		
	14	511.06	1.45735E-02	38.20	Sum	
	17	627.70	6.24242E-03	45.98		
	18	704.50	9.86111E-03	47.48	Sum	
	19	724.20	1.85177E-02	35.11	Tol.	EU-154
	20	768.47	1.63139E-02	30.28	Sum	
	21	795.18	5.48747E-03	50.18	Sum	
	22	805.51	1.18350E-02	32.46		
	24	934.10	1.39824E-02	28.75	Sum	
M	25	964.72	6.80219E-03	43.43	Tol.	EU-152
	27	1046.03	4.68567E-03	53.31		
	28	1075.82	1.29956E-02	36.43		
	30	1237.77	1.91462E-02	23.09	Tol.	CO-56
	31	1260.38	9.30556E-03	52.27	Tol.	I-135
	32	1286.48	1.67998E-02	29.05		
M	33	1377.14	1.29588E-02	21.65		
m	34	1385.66	3.59151E-03	67.43		
	35	1400.58	8.01347E-03	22.76		
	36	1407.82	7.86111E-03	33.52	Tol.	EU-152
	38	1479.35	5.60317E-03	42.21		
	39	1509.81	6.45833E-03	46.87		
	40	1526.05	4.57899E-03	49.82		
	41	1582.51	3.10847E-03	56.07		
	42	1589.60	5.93546E-03	37.80		
	43	1661.23	2.13889E-03	66.54		
	44	1729.35	6.11450E-03	42.27	Sum	
	46	1847.49	4.45000E-03	41.99		
	47	1865.14	1.52778E-03	70.71		
	48	1934.46	1.94444E-03	37.80		
	49	2004.40	2.39899E-03	46.41		
	50	2118.50	6.27222E-03	25.27		
	51	2183.95	1.20370E-03	69.47		
	53	2366.31	2.20833E-03	47.06		
	54	2447.88	2.75000E-03	49.68		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.00	1460.81	*	10.67	9.44E+00	1.85E+00
CD-109	0.99	88.03	*	3.72	4.82E+00	1.54E+00
SN-126	0.99	87.57	*	37.00	4.66E-01	1.46E-01
PM-146	0.38	453.90	*	39.94	1.47E-01	1.67E-01
		735.90		14.01		
		747.13		13.10		
LU-173	0.61	100.72		5.24		
		272.11	*	21.20	6.35E-01	5.67E-01
TL-208	0.86	583.14	*	30.22	1.18E+00	3.78E-01
		860.37		4.48		
		2614.66	*	35.85	7.26E-01	2.44E-01
PB-210	1.00	46.50	*	4.25	3.10E+00	2.20E+00
PB-212	0.89	238.63	*	44.60	9.99E-01	1.71E-01
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	4.34E+00	5.25E-01
		1120.29	*	15.10	4.25E+00	1.00E+00
		1764.49	*	15.80	4.61E+00	9.05E-01
		2204.22	*	4.98	4.25E+00	1.67E+00
PB-214	0.99	295.21	*	19.19	4.99E+00	6.52E-01
		351.92	*	37.19	4.94E+00	5.40E-01
RA-224	0.88	240.98	*	3.95	1.14E+01	2.00E+00
RA-226	0.98	186.21	*	3.28	8.42E+00	1.56E+01
AC-228	0.97	338.32	*	11.40	9.92E-01	5.89E-01
		911.07	*	27.70	8.72E-01	3.64E-01
		969.11	*	16.60	8.48E-01	5.38E-01
AM-243	0.98	74.67	*	66.00	6.07E-01	1.26E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	1.000	9.44E+00	1.85E+00	
?	CD-109	0.991	4.82E+00	1.54E+00	
?	SN-126	0.992	4.66E-01	1.46E-01	
	PM-146	0.386	1.47E-01	1.67E-01	
	LU-173	0.617	6.35E-01	5.67E-01	
	TL-208	0.865	8.60E-01	2.05E-01	
	PB-210	1.000	3.10E+00	2.20E+00	
	PB-212	0.893	9.99E-01	1.71E-01	
	BI-214	0.999	4.37E+00	4.01E-01	
	PB-214	0.999	4.96E+00	4.16E-01	
	RA-224	0.882	1.14E+01	2.00E+00	
	RA-226	0.987	8.42E+00	1.56E+01	
	AC-228	0.978	8.91E-01	2.68E-01	
	AM-243	0.989	6.07E-01	1.26E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:35PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	77.41	1.93808E-01	7.17		
	12	447.56	8.79274E-03	51.33		
	14	511.06	1.45735E-02	38.20	Sum	
	17	627.70	6.24242E-03	45.98		
	18	704.50	9.86111E-03	47.48	Sum	
	19	724.20	1.85177E-02	35.11	Tol.	EU-154
	20	768.47	1.63139E-02	30.28	Sum	
	21	795.18	5.48747E-03	50.18	Sum	
	22	805.51	1.18350E-02	32.46		
	24	934.10	1.39824E-02	28.75	Sum	
M	25	964.72	6.80219E-03	43.43	Tol.	EU-152
	27	1046.03	4.68567E-03	53.31		
	28	1075.82	1.29956E-02	36.43		
	30	1237.77	1.91462E-02	23.09	Tol.	CO-56
	31	1260.38	9.30556E-03	52.27	Tol.	I-135
	32	1286.48	1.67998E-02	29.05		
M	33	1377.14	1.29588E-02	21.65		
m	34	1385.66	3.59151E-03	67.43		
	35	1400.58	8.01347E-03	22.76		
	36	1407.82	7.86111E-03	33.52	Tol.	EU-152
	38	1479.35	5.60317E-03	42.21		
	39	1509.81	6.45833E-03	46.87		
	40	1526.05	4.57899E-03	49.82		
	41	1582.51	3.10847E-03	56.07		
	42	1589.60	5.93546E-03	37.80		
	43	1661.23	2.13889E-03	66.54		
	44	1729.35	6.11450E-03	42.27	Sum	
	46	1847.49	4.45000E-03	41.99		
	47	1865.14	1.52778E-03	70.71		
	48	1934.46	1.94444E-03	37.80		
	49	2004.40	2.39899E-03	46.41		
	50	2118.50	6.27222E-03	25.27		
	51	2183.95	1.20370E-03	69.47		
	53	2366.31	2.20833E-03	47.06		

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
54	2447.88	2.75000E-03	49.68		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.37E-01	1.21E+00	1.21E+00
+	NA-22	1274.54		99.94	1.53E-04	1.01E-01	1.01E-01
+	NA-24	1368.53		99.99	2.72E+11	9.91E+11	1.50E+12
		2754.09		99.86	8.25E+10		9.91E+11
+	AL-26	1808.65		99.76	8.00E-03	5.74E-02	5.74E-02
+	K-40	1460.81	*	10.67	9.44E+00	1.86E+00	1.86E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	1.05E-01	1.10E-01	1.10E-01
		78.34		96.00	4.68E-01		1.46E-01
+	SC-46	889.25		99.98	5.31E-03	1.37E-01	1.37E-01
		1120.51		99.99	7.50E-01		3.21E-01
+	V-48	983.52		99.98	-1.95E-01	3.34E-01	3.34E-01
		1312.10		97.50	-5.75E-02		3.38E-01
+	CR-51	320.08		9.83	-3.08E-01	1.55E+00	1.55E+00
+	MN-54	834.83		99.97	-1.12E-02	1.20E-01	1.20E-01
+	CO-56	846.75		99.96	1.45E-02	1.46E-01	1.46E-01
		1037.75		14.03	-5.89E-02		1.05E+00
		1238.25		67.00	4.51E-01		3.87E-01
		1771.40		15.51	-1.44E-01		6.07E-01
		2598.48		16.90	-1.98E-01		3.36E-01
+	CO-57	122.06		85.51	-2.94E-02	8.64E-02	8.64E-02
		136.48		10.60	-3.64E-01		7.36E-01
+	CO-58	810.76		99.40	3.02E-02	1.27E-01	1.27E-01
+	FE-59	1099.22		56.50	5.56E-02	3.14E-01	3.14E-01
		1291.56		43.20	1.91E-01		4.59E-01
+	CO-60	1173.22		100.00	3.81E-02	9.83E-02	1.26E-01
		1332.49		100.00	-2.80E-02		9.83E-02
+	ZN-65	1115.52		50.75	-3.30E-02	3.05E-01	3.05E-01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	GA-67	93.31		35.70	7.40E+01	8.59E+01	8.59E+01
		208.95		2.24	6.00E+02		1.17E+03
		300.22		16.00	-9.66E+00		1.65E+02
+	SE-75	121.11		16.70	9.08E-02	1.43E-01	4.91E-01
		136.00		59.20	-6.81E-03		1.43E-01
		264.65		59.80	7.97E-04		1.43E-01
		279.53		25.20	-1.11E-02		3.52E-01
		400.65		11.40	-2.12E-01		8.62E-01
+	RB-82	776.52		13.00	-2.93E-01	1.72E+00	1.72E+00
+	RB-83	520.41		46.00	1.02E-01	2.68E-01	2.68E-01
		529.64		30.30	1.03E-01		3.77E-01
		552.65		16.40	-2.93E-01		7.01E-01
+	KR-85	513.99		0.43	-1.30E-01	2.94E+01	2.94E+01
+	SR-85	513.99		99.27	-7.57E-04	1.71E-01	1.71E-01
+	Y-88	898.02		93.40	-1.20E-04	1.26E-01	1.46E-01
		1836.01		99.38	6.12E-02		1.26E-01
+	NB-93M	16.57		9.43	-1.12E+02	1.03E+02	1.03E+02
+	NB-94	702.63		100.00	3.02E-02	1.11E-01	1.24E-01
		871.10		100.00	8.90E-03		1.11E-01
+	NB-95	765.79		99.81	5.78E-03	2.49E-01	2.49E-01
+	NB-95M	235.69		25.00	-2.73E+02	6.86E+01	6.86E+01
+	ZR-95	724.18		43.70	-1.77E-01	2.34E-01	3.78E-01
		756.72		55.30	-7.13E-02		2.34E-01
+	MO-99	181.06		6.20	2.82E+02	7.58E+02	1.18E+03
		739.58		12.80	-3.29E+02		7.58E+02
		778.00		4.50	-1.03E+03		2.26E+03
+	RU-103	497.08		89.00	2.28E-02	1.64E-01	1.64E-01
+	RU-106	621.84		9.80	2.31E-01	1.02E+00	1.02E+00
+	AG-108M	433.93		89.90	1.07E-02	1.04E-01	1.04E-01
		614.37		90.40	5.36E-03		1.13E-01
		722.95		90.50	-1.10E-01		1.31E-01
+	CD-109	88.03	*	3.72	4.82E+00	3.80E+00	3.80E+00
+	AG-110M	657.75		93.14	1.64E-02	1.13E-01	1.13E-01
		677.61		10.53	3.32E-01		1.07E+00
		706.67		16.46	2.98E-01		7.96E-01
		763.93		21.98	2.88E-02		5.12E-01
		884.67		71.63	-8.90E-03		1.61E-01
		1384.27		23.94	1.54E-01		5.83E-01
+	CD-113M	263.70		0.02	-1.48E+01	3.10E+02	3.10E+02
+	SN-113	255.12		1.93	1.14E+00	1.51E-01	4.95E+00
		391.69		64.90	-7.65E-03		1.51E-01
+	TE123M	159.00		84.10	-1.09E-01	1.02E-01	1.02E-01
+	SB-124	602.71		97.87	1.08E-02	1.35E-01	1.35E-01
		645.85		7.26	2.71E-01		1.87E+00
		722.78		11.10	-1.23E+00		1.47E+00
		1691.02		49.00	7.14E-03		2.59E-01
+	I-125	35.49		6.49	3.25E+00	4.76E+00	4.76E+00
+	SB-125	176.33		6.89	1.34E-01	3.48E-01	1.13E+00

00365

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SB-125	427.89		29.33	3.12E-02	3.48E-01	3.48E-01
		463.38		10.35	4.38E-01		9.91E-01
		600.56		17.80	1.30E-01		5.92E-01
		635.90		11.32	5.08E-01		9.09E-01
+	SB-126	414.70		83.30	-1.88E-01	4.59E-01	5.32E-01
		666.33		99.60	4.84E-02		4.59E-01
		695.00		99.60	3.59E-02		4.89E-01
		720.50		53.80	6.43E-01		1.02E+00
+	SN-126	87.57	*	37.00	4.66E-01	3.66E-01	3.66E-01
+	SB-127	473.00		25.00	-5.12E+00	3.75E+01	4.67E+01
		685.20		35.70	5.36E+00		3.75E+01
		783.80		14.70	2.77E+01		1.12E+02
+	I-129	29.78		57.00	6.04E-02	7.28E-01	7.28E-01
		33.60		13.20	7.09E-01		2.04E+00
		39.58		7.52	6.79E-01		2.18E+00
+	I-131	284.30		6.05	1.51E+00	9.05E-01	1.38E+01
		364.48		81.20	-5.91E-02		9.05E-01
		636.97		7.26	-1.05E+00		1.43E+01
		722.89		1.80	-5.80E+01		6.93E+01
+	TE-132	49.72		13.10	3.50E+00	2.97E+01	2.82E+02
		228.16		88.00	5.48E+00		2.97E+01
+	BA-133	81.00		33.00	-1.23E+00	1.53E-01	2.74E-01
		302.84		17.80	-3.35E-02		4.31E-01
		356.01		60.00	1.62E-02		1.53E-01
+	I-133	529.87		86.30	8.55E+07	3.14E+08	3.14E+08
+	XE-133	81.00		38.00	-3.91E+01	8.72E+00	8.72E+00
+	CS-134	563.23		8.38	5.95E-02	1.29E-01	1.20E+00
		569.32		15.43	-8.82E-02		6.67E-01
		604.70		97.60	1.34E-02		1.32E-01
		795.84		85.40	4.56E-02		1.29E-01
		801.93		8.73	-8.15E-01		1.19E+00
+	CS-135	268.24		16.00	2.41E-01	5.41E-01	5.41E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	3.18E+00	4.23E-01	4.42E+00
		163.89		4.61	2.05E+00		7.12E+00
		176.55		13.56	2.82E-01		2.37E+00
		273.65		12.66	-8.23E-01		2.75E+00
		340.57		48.50	4.42E-01		8.19E-01
		818.50		99.70	9.08E-02		4.23E-01
		1048.07		79.60	1.99E-02		6.19E-01
		1235.34		19.70	2.93E+00		4.10E+00
+	CS-137	661.65		85.12	-1.55E-02	1.18E-01	1.18E-01
+	LA-138	788.74		34.00	1.28E-01	1.31E-01	3.47E-01
		1435.80		66.00	-3.73E-02		1.31E-01
+	CE-139	165.85		80.35	-6.58E-02	1.04E-01	1.04E-01
+	BA-140	162.64		6.70	6.03E+00	1.61E+00	5.19E+00
		304.84		4.50	-8.60E-01		7.14E+00

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	BA-140	423.70		3.20	-3.51E+00	1.61E+00	1.36E+01
		437.55		2.00	-3.29E+00		2.03E+01
		537.32		25.00	2.19E-01		1.61E+00
+	LA-140	328.77		20.50	6.57E-01	5.87E-01	1.84E+00
		487.03		45.50	6.11E-01		9.20E-01
		815.85		23.50	-1.07E+00		1.77E+00
		1596.49		95.49	1.51E-02		5.87E-01
+	CE-141	145.44		48.40	1.34E-01	2.93E-01	2.93E-01
+	CE-143	57.36		11.80	-3.88E+05	4.05E+05	7.42E+05
		293.26		42.00	1.89E+06		4.05E+05
		664.55		5.20	1.90E+05		1.78E+06
+	CE-144	133.54		10.80	-3.60E-01	7.07E-01	7.07E-01
+	PM-144	476.78		42.00	-2.89E-03	1.03E-01	2.18E-01
		618.01		98.60	1.52E-02		1.03E-01
		696.49		99.49	1.78E-02		1.16E-01
+	PM-145	36.85		21.70	-6.77E-01	4.85E-01	9.10E-01
		37.36		39.70	2.95E-02		4.85E-01
		42.30		15.10	-4.11E-01		9.20E-01
		72.40		2.31	-2.38E-01		5.09E+00
+	PM-146	453.90	*	39.94	1.47E-01	2.73E-01	2.73E-01
		735.90		14.01	3.52E-01		7.77E-01
		747.13		13.10	1.70E-01		8.83E-01
+	ND-147	91.11		28.90	6.86E-01	1.96E+00	1.96E+00
		531.02		13.10	-6.04E-01		3.73E+00
+	PM-149	285.90		3.10	-8.01E+02	1.30E+04	1.30E+04
+	EU-152	121.78		20.50	-1.15E-01	3.37E-01	3.37E-01
		244.69		5.40	4.11E-01		1.91E+00
		344.27		19.13	-3.38E-03		4.38E-01
		778.89		9.20	-6.32E-01		1.14E+00
		964.01		10.40	-6.61E-01		1.24E+00
		1085.78		7.22	1.29E-01		1.39E+00
		1112.02		9.60	-7.28E-02		1.15E+00
		1407.95		14.94	6.53E-01		1.03E+00
+	GD-153	97.43		31.30	4.44E-02	2.60E-01	2.60E-01
		103.18		22.20	-1.18E-01		3.27E-01
+	EU-154	123.07		40.50	2.73E-02	1.72E-01	1.72E-01
		723.30		19.70	-5.08E-01		6.07E-01
		873.19		11.50	2.33E-01		9.34E-01
		996.32		10.30	-9.78E-01		8.94E-01
		1004.76		17.90	1.81E-01		7.41E-01
		1274.45		35.50	4.25E-04		2.80E-01
+	EU-155	86.50		30.90	-3.12E-02	3.35E-01	3.41E-01
		105.30		20.70	-1.75E-02		3.35E-01
+	EU-156	811.77		10.40	9.86E-01	3.15E+00	3.15E+00
		1153.47		7.20	4.54E+00		7.31E+00
		1230.71		8.90	-4.78E-01		5.06E+00
+	HO-166M	184.41		72.60	3.33E-01	1.53E-01	1.53E-01
		280.45		29.60	3.02E-02		2.50E-01
		410.94		11.10	-3.20E-01		8.86E-01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	711.69		54.10	5.65E-02	1.53E-01	1.88E-01
+	TM-171	66.72		0.14	-8.85E+01	7.67E+01	7.67E+01
+	HF-172	81.75		4.52	-2.12E+00	6.09E-01	2.05E+00
		125.81		11.30	-3.79E-01		6.09E-01
+	LU-172	181.53		20.60	2.74E+00	3.22E+00	6.10E+00
		810.06		16.63	2.88E+00		1.05E+01
		912.12		15.25	3.04E+01		1.88E+01
		1093.66		62.50	1.18E+00		3.22E+00
+	LU-173	100.72		5.24	2.01E-02	9.23E-01	1.38E+00
		272.11	*	21.20	6.35E-01		9.23E-01
+	HF-175	343.40		84.00	7.18E-03	1.28E-01	1.28E-01
+	LU-176	88.34		13.30	1.86E+00	7.74E-02	8.18E-01
		201.83		86.00	-2.74E-02		9.47E-02
		306.78		94.00	-2.96E-02		7.74E-02
+	TA-182	67.75		41.20	2.83E-01	2.96E-01	2.96E-01
		1121.30		34.90	2.03E+00		8.72E-01
		1189.05		16.23	-1.23E-01		9.29E-01
		1221.41		26.98	8.93E-02		5.57E-01
		1231.02		11.44	-1.26E-01		1.34E+00
+	IR-192	308.46		29.68	1.76E-01	2.50E-01	3.30E-01
		468.07		48.10	-7.31E-02		2.50E-01
+	HG-203	279.19		77.30	6.05E-03	1.45E-01	1.45E-01
+	BI-207	569.67		97.72	-8.69E-03	1.02E-01	1.02E-01
		1063.62		74.90	4.39E-02		1.55E-01
+	TL-208	583.14	*	30.22	1.18E+00	1.79E-01	5.30E-01
		860.37		4.48	2.07E+00		2.66E+00
		2614.66	*	35.85	7.26E-01		1.79E-01
+	BI-210M	262.00		45.00	-5.12E-02	1.59E-01	1.59E-01
		300.00		23.00	-2.04E-02		3.50E-01
+	PB-210	46.50	*	4.25	3.10E+00	3.51E+00	3.51E+00
+	PB-211	404.84		2.90	1.08E+00	3.18E+00	3.18E+00
		831.96		2.90	-1.87E-02		3.94E+00
+	BI-212	727.17		11.80	5.03E-01	1.04E+00	1.04E+00
		1620.62		2.75	3.74E+00		5.02E+00
+	PB-212	238.63	*	44.60	9.99E-01	3.13E-01	3.13E-01
		300.09		3.41	-1.38E-01		2.36E+00
+	BI-214	609.31	*	46.30	4.34E+00	3.17E-01	3.17E-01
		1120.29	*	15.10	4.25E+00		1.17E+00
		1764.49	*	15.80	4.61E+00		5.47E-01
		2204.22	*	4.98	4.25E+00		1.66E+00
+	PB-214	295.21	*	19.19	4.99E+00	3.75E-01	6.08E-01
		351.92	*	37.19	4.94E+00		3.75E-01
+	RN-219	401.80		6.50	2.76E-01	1.35E+00	1.35E+00
+	RA-223	323.87		3.88	-4.53E-01	2.00E+00	2.00E+00
+	RA-224	240.98	*	3.95	1.14E+01	3.48E+00	3.48E+00
+	RA-225	40.00		31.00	5.75E-01	1.85E+00	1.85E+00
+	RA-226	186.21	*	3.28	8.42E+00	3.63E+00	3.63E+00
+	TH-227	50.10		8.40	1.63E-02	7.96E-01	1.31E+00

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	TH-227	236.00		11.50	-3.17E+00	7.96E-01	7.96E-01
		256.20		6.30	-1.80E-01		1.27E+00
+	AC-228	338.32	*	11.40	9.92E-01	5.15E-01	9.19E-01
		911.07	*	27.70	8.72E-01		5.15E-01
		969.11	*	16.60	8.48E-01		1.19E+00
+	TH-230	48.44		16.90	1.03E-01	7.86E-01	7.86E-01
		62.85		4.60	2.31E+00		2.36E+00
		67.67		0.37	2.68E+01		2.80E+01
+	PA-231	283.67		1.60	9.09E-01	3.32E+00	4.97E+00
		302.67		2.30	-2.58E-01		3.32E+00
+	TH-231	25.64		14.70	-8.48E+00	1.50E+00	6.82E+00
		84.21		6.40	-3.28E+00		1.50E+00
+	PA-233	311.98		38.60	-1.36E-01	3.80E-01	3.80E-01
+	PA-234	131.20		20.40	-1.01E-01	3.54E-01	3.54E-01
		733.99		8.80	4.69E-02		1.17E+00
		946.00		12.00	-2.70E-01		7.57E-01
+	PA-234M	1001.03		0.92	-5.75E+00	1.27E+01	1.27E+01
+	TH-234	63.29		3.80	1.10E+00	2.87E+00	2.87E+00
+	U-235	143.76		10.50	2.31E-01	7.58E-01	7.58E-01
		163.35		4.70	4.77E-01		1.66E+00
		205.31		4.70	-7.31E-01		1.69E+00
+	NP-237	86.50		12.60	-7.58E-02	8.27E-01	8.27E-01
+	NP-239	106.10		22.70	-4.84E+01	9.24E+02	9.24E+02
		228.18		10.70	4.17E+02		2.26E+03
		277.60		14.10	-1.80E+02		1.64E+03
+	AM-241	59.54		35.90	-2.57E-01	2.61E-01	2.61E-01
+	AM-243	74.67	*	66.00	6.07E-01	2.69E-01	2.69E-01
+	CM-243	209.75		3.29	7.32E-01	5.42E-01	2.37E+00
		228.14		10.60	1.38E-01		7.47E-01
		277.60		14.00	-5.93E-02		5.42E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.21E+00	1.21E+00	1.37E-01	5.68E-01
	NA-22	1274.54		99.94	1.01E-01	1.01E-01	1.53E-04	4.46E-02
	NA-24	1368.53		99.99	1.50E+12	9.91E+11	2.72E+11	6.68E+11
		2754.09		99.86	9.91E+11		8.25E+10	3.84E+11
	AL-26	1808.65		99.76	5.74E-02	5.74E-02	8.00E-03	2.15E-02
+	K-40	1460.81	*	10.67	1.86E+00	1.86E+00	9.44E+00	8.70E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	1.10E-01	1.10E-01	1.05E-01	5.36E-02
		78.34		96.00	1.46E-01		4.68E-01	7.18E-02
	SC-46	889.25		99.98	1.37E-01	1.37E-01	5.31E-03	6.32E-02
		1120.51		99.99	3.21E-01		7.50E-01	1.54E-01
	V-48	983.52		99.98	3.34E-01	3.34E-01	-1.95E-01	1.52E-01
		1312.10		97.50	3.38E-01		-5.75E-02	1.49E-01
	CR-51	320.08		9.83	1.55E+00	1.55E+00	-3.08E-01	7.36E-01
	MN-54	834.83		99.97	1.20E-01	1.20E-01	-1.12E-02	5.56E-02
	CO-56	846.75		99.96	1.46E-01	1.46E-01	1.45E-02	6.79E-02
		1037.75		14.03	1.05E+00		-5.89E-02	4.83E-01
		1238.25		67.00	3.87E-01		4.51E-01	1.83E-01
		1771.40		15.51	6.07E-01		-1.44E-01	2.45E-01
		2598.48		16.90	3.36E-01		-1.98E-01	1.06E-01
	CO-57	122.06		85.51	8.64E-02	8.64E-02	-2.94E-02	4.17E-02
		136.48		10.60	7.36E-01		-3.64E-01	3.56E-01
	CO-58	810.76		99.40	1.27E-01	1.27E-01	3.02E-02	5.82E-02
	FE-59	1099.22		56.50	3.14E-01	3.14E-01	5.56E-02	1.43E-01
		1291.56		43.20	4.59E-01		1.91E-01	2.09E-01
	CO-60	1173.22		100.00	1.26E-01	9.83E-02	3.81E-02	5.78E-02
		1332.49		100.00	9.83E-02		-2.80E-02	4.32E-02
	ZN-65	1115.52		50.75	3.05E-01	3.05E-01	-3.30E-02	1.42E-01
	GA-67	93.31		35.70	8.59E+01	8.59E+01	7.40E+01	4.19E+01
		208.95		2.24	1.17E+03		6.00E+02	5.62E+02
		300.22		16.00	1.65E+02		-9.66E+00	7.87E+01
	SE-75	121.11		16.70	4.91E-01	1.43E-01	9.08E-02	2.38E-01
		136.00		59.20	1.43E-01		-6.81E-03	6.90E-02
		264.65		59.80	1.43E-01		7.97E-04	6.82E-02
		279.53		25.20	3.52E-01		-1.11E-02	1.68E-01
		400.65		11.40	8.62E-01		-2.12E-01	4.07E-01
	RB-82	776.52		13.00	1.72E+00	1.72E+00	-2.93E-01	7.96E-01
	RB-83	520.41		46.00	2.68E-01	2.68E-01	1.02E-01	1.26E-01
		529.64		30.30	3.77E-01		1.03E-01	1.77E-01
		552.65		16.40	7.01E-01		-2.93E-01	3.28E-01
	KR-85	513.99		0.43	2.94E+01	2.94E+01	-1.30E-01	1.40E+01
	SR-85	513.99		99.27	1.71E-01	1.71E-01	-7.57E-04	8.17E-02
	Y-88	898.02		93.40	1.46E-01	1.26E-01	-1.20E-04	6.77E-02
		1836.01		99.38	1.26E-01		6.12E-02	5.40E-02
	NB-93M	16.57		9.43	1.03E+02	1.03E+02	-1.12E+02	4.76E+01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	1.24E-01	1.11E-01	3.02E-02	5.85E-02
		871.10		100.00	1.11E-01		8.90E-03	5.12E-02
	NB-95	765.79		99.81	2.49E-01	2.49E-01	5.78E-03	1.18E-01
	NB-95M	235.69		25.00	6.86E+01	6.86E+01	-2.73E+02	3.31E+01
	ZR-95	724.18		43.70	3.78E-01	2.34E-01	-1.77E-01	1.78E-01
		756.72		55.30	2.34E-01		-7.13E-02	1.08E-01
	MO-99	181.06		6.20	1.18E+03	7.58E+02	2.82E+02	5.71E+02
		739.58		12.80	7.58E+02		-3.29E+02	3.51E+02
		778.00		4.50	2.26E+03		-1.03E+03	1.05E+03
	RU-103	497.08		89.00	1.64E-01	1.64E-01	2.28E-02	7.73E-02
	RU-106	621.84		9.80	1.02E+00	1.02E+00	2.31E-01	4.76E-01
	AG-108M	433.93		89.90	1.04E-01	1.04E-01	1.07E-02	4.91E-02
		614.37		90.40	1.13E-01		5.36E-03	5.30E-02
		722.95		90.50	1.31E-01		-1.10E-01	6.17E-02
+	CD-109	88.03	*	3.72	3.80E+00	3.80E+00	4.82E+00	1.87E+00
	AG-110M	657.75		93.14	1.13E-01	1.13E-01	1.64E-02	5.28E-02
		677.61		10.53	1.07E+00		3.32E-01	5.01E-01
		706.67		16.46	7.96E-01		2.98E-01	3.74E-01
		763.93		21.98	5.12E-01		2.88E-02	2.37E-01
		884.67		71.63	1.61E-01		-8.90E-03	7.40E-02
		1384.27		23.94	5.83E-01		1.54E-01	2.65E-01
	CD-113M	263.70		0.02	3.10E+02	3.10E+02	-1.48E+01	1.48E+02
	SN-113	255.12		1.93	4.95E+00	1.51E-01	1.14E+00	2.37E+00
		391.69		64.90	1.51E-01		-7.65E-03	7.12E-02
	TE123M	159.00		84.10	1.02E-01	1.02E-01	-1.09E-01	4.94E-02
	SB-124	602.71		97.87	1.35E-01	1.35E-01	1.08E-02	6.33E-02
		645.85		7.26	1.87E+00		2.71E-01	8.74E-01
		722.78		11.10	1.47E+00		-1.23E+00	6.88E-01
		1691.02		49.00	2.59E-01		7.14E-03	1.10E-01
	I-125	35.49		6.49	4.76E+00	4.76E+00	3.25E+00	2.30E+00
	SB-125	176.33		6.89	1.13E+00	3.48E-01	1.34E-01	5.44E-01
		427.89		29.33	3.48E-01		3.12E-02	1.66E-01
		463.38		10.35	9.91E-01		4.38E-01	4.70E-01
		600.56		17.80	5.92E-01		1.30E-01	2.78E-01
		635.90		11.32	9.09E-01		5.08E-01	4.25E-01
	SB-126	414.70		83.30	5.32E-01	4.59E-01	-1.88E-01	2.53E-01
		666.33		99.60	4.59E-01		4.84E-02	2.14E-01
		695.00		99.60	4.89E-01		3.59E-02	2.28E-01
		720.50		53.80	1.02E+00		6.43E-01	4.81E-01
+	SN-126	87.57	*	37.00	3.66E-01	3.66E-01	4.66E-01	1.80E-01
	SB-127	473.00		25.00	4.67E+01	3.75E+01	-5.12E+00	2.19E+01
		685.20		35.70	3.75E+01		5.36E+00	1.74E+01
		783.80		14.70	1.12E+02		2.77E+01	5.24E+01
	I-129	29.78		57.00	7.28E-01	7.28E-01	6.04E-02	3.52E-01
		33.60		13.20	2.04E+00		7.09E-01	9.85E-01
		39.58		7.52	2.18E+00		6.79E-01	1.06E+00
	I-131	284.30		6.05	1.38E+01	9.05E-01	1.51E+00	6.61E+00
		364.48		81.20	9.05E-01		-5.91E-02	4.25E-01
		636.97		7.26	1.43E+01		-1.05E+00	6.68E+00
		722.89		1.80	6.93E+01		-5.80E+01	3.25E+01
	TE-132	49.72		13.10	2.82E+02	2.97E+01	3.50E+00	1.37E+02
		228.16		88.00	2.97E+01		5.48E+00	1.42E+01
	BA-133	81.00		33.00	2.74E-01	1.53E-01	-1.23E+00	1.34E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-133	302.84		17.80	4.31E-01	1.53E-01	-3.35E-02	2.05E-01
		356.01		60.00	1.53E-01		1.62E-02	7.28E-02
	I-133	529.87		86.30	3.14E+08	3.14E+08	8.55E+07	1.47E+08
	XE-133	81.00		38.00	8.72E+00	8.72E+00	-3.91E+01	4.25E+00
	CS-134	563.23		8.38	1.20E+00	1.29E-01	5.95E-02	5.66E-01
		569.32		15.43	6.67E-01		-8.82E-02	3.13E-01
		604.70		97.60	1.32E-01		1.34E-02	6.27E-02
		795.84		85.40	1.29E-01		4.56E-02	5.99E-02
		801.93		8.73	1.19E+00		-8.15E-01	5.51E-01
	CS-135	268.24		16.00	5.41E-01	5.41E-01	2.41E-01	2.59E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	4.42E+00	4.23E-01	3.18E+00	2.14E+00
		163.89		4.61	7.12E+00		2.05E+00	3.44E+00
		176.55		13.56	2.37E+00		2.82E-01	1.14E+00
		273.65		12.66	2.75E+00		-8.23E-01	1.31E+00
		340.57		48.50	8.19E-01		4.42E-01	3.91E-01
		818.50		99.70	4.23E-01		9.08E-02	1.95E-01
		1048.07		79.60	6.19E-01		1.99E-02	2.84E-01
		1235.34		19.70	4.10E+00		2.93E+00	1.93E+00
	CS-137	661.65		85.12	1.18E-01	1.18E-01	-1.55E-02	5.52E-02
	LA-138	788.74		34.00	3.47E-01	1.31E-01	1.28E-01	1.62E-01
		1435.80		66.00	1.31E-01		-3.73E-02	5.59E-02
	CE-139	165.85		80.35	1.04E-01	1.04E-01	-6.58E-02	5.01E-02
	BA-140	162.64		6.70	5.19E+00	1.61E+00	6.03E+00	2.51E+00
		304.84		4.50	7.14E+00		-8.60E-01	3.39E+00
		423.70		3.20	1.36E+01		-3.51E+00	6.46E+00
		437.55		2.00	2.03E+01		-3.29E+00	9.59E+00
		537.32		25.00	1.61E+00		2.19E-01	7.52E-01
	LA-140	328.77		20.50	1.84E+00	5.87E-01	6.57E-01	8.79E-01
		487.03		45.50	9.20E-01		6.11E-01	4.34E-01
		815.85		23.50	1.77E+00		-1.07E+00	8.10E-01
		1596.49		95.49	5.87E-01		1.51E-02	2.63E-01
	CE-141	145.44		48.40	2.93E-01	2.93E-01	1.34E-01	1.42E-01
	CE-143	57.36		11.80	7.42E+05	4.05E+05	-3.88E+05	3.60E+05
		293.26		42.00	4.05E+05		1.89E+06	1.98E+05
		664.55		5.20	1.78E+06		1.90E+05	8.29E+05
	CE-144	133.54		10.80	7.07E-01	7.07E-01	-3.60E-01	3.42E-01
	PM-144	476.78		42.00	2.18E-01	1.03E-01	-2.89E-03	1.02E-01
		618.01		98.60	1.03E-01		1.52E-02	4.82E-02
		696.49		99.49	1.16E-01		1.78E-02	5.40E-02
	PM-145	36.85		21.70	9.10E-01	4.85E-01	-6.77E-01	4.40E-01
		37.36		39.70	4.85E-01		2.95E-02	2.34E-01
		42.30		15.10	9.20E-01		-4.11E-01	4.45E-01
		72.40		2.31	5.09E+00		-2.38E-01	2.49E+00
+	PM-146	453.90	*	39.94	2.73E-01	2.73E-01	1.47E-01	1.30E-01
		735.90		14.01	7.77E-01		3.52E-01	3.62E-01
		747.13		13.10	8.83E-01		1.70E-01	4.13E-01
	ND-147	91.11		28.90	1.96E+00	1.96E+00	6.86E-01	9.58E-01
		531.02		13.10	3.73E+00		-6.04E-01	1.74E+00
	PM-149	285.90		3.10	1.30E+04	1.30E+04	-8.01E+02	6.21E+03
	EU-152	121.78		20.50	3.37E-01	3.37E-01	-1.15E-01	1.63E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	1.91E+00	3.37E-01	4.11E-01	9.23E-01
		344.27		19.13	4.38E-01		-3.38E-03	2.08E-01
		778.89		9.20	1.14E+00		-6.32E-01	5.26E-01
		964.01		10.40	1.24E+00		-6.61E-01	5.77E-01
		1085.78		7.22	1.39E+00		1.29E-01	6.23E-01
		1112.02		9.60	1.15E+00		-7.28E-02	5.20E-01
		1407.95		14.94	1.03E+00		6.53E-01	4.74E-01
	GD-153	97.43		31.30	2.60E-01	2.60E-01	4.44E-02	1.26E-01
		103.18		22.20	3.27E-01		-1.18E-01	1.58E-01
	EU-154	123.07		40.50	1.72E-01	1.72E-01	2.73E-02	8.29E-02
		723.30		19.70	6.07E-01		-5.08E-01	2.85E-01
		873.19		11.50	9.34E-01		2.33E-01	4.30E-01
		996.32		10.30	8.94E-01		-9.78E-01	4.01E-01
		1004.76		17.90	7.41E-01		1.81E-01	3.44E-01
		1274.45		35.50	2.80E-01		4.25E-04	1.24E-01
	EU-155	86.50		30.90	3.41E-01	3.35E-01	-3.12E-02	1.67E-01
		105.30		20.70	3.35E-01		-1.75E-02	1.62E-01
	EU-156	811.77		10.40	3.15E+00	3.15E+00	9.86E-01	1.44E+00
		1153.47		7.20	7.31E+00		4.54E+00	3.40E+00
		1230.71		8.90	5.06E+00		-4.78E-01	2.31E+00
	HO-166M	184.41		72.60	1.53E-01	1.53E-01	3.33E-01	7.46E-02
		280.45		29.60	2.50E-01		3.02E-02	1.19E-01
		410.94		11.10	8.86E-01		-3.20E-01	4.22E-01
		711.69		54.10	1.88E-01		5.65E-02	8.75E-02
	TM-171	66.72		0.14	7.67E+01	7.67E+01	-8.85E+01	3.75E+01
	HF-172	81.75		4.52	2.05E+00	6.09E-01	-2.12E+00	1.00E+00
		125.81		11.30	6.09E-01		-3.79E-01	2.94E-01
	LU-172	181.53		20.60	6.10E+00	3.22E+00	2.74E+00	2.94E+00
		810.06		16.63	1.05E+01		2.88E+00	4.87E+00
		912.12		15.25	1.88E+01		3.04E+01	8.90E+00
		1093.66		62.50	3.22E+00		1.18E+00	1.47E+00
+	LU-173	100.72		5.24	1.38E+00	9.23E-01	2.01E-02	6.69E-01
		272.11	*	21.20	9.23E-01		6.35E-01	4.53E-01
	HF-175	343.40		84.00	1.28E-01	1.28E-01	7.18E-03	6.07E-02
	LU-176	88.34		13.30	8.18E-01	7.74E-02	1.86E+00	4.01E-01
		201.83		86.00	9.47E-02		-2.74E-02	4.56E-02
		306.78		94.00	7.74E-02		-2.96E-02	3.66E-02
	TA-182	67.75		41.20	2.96E-01	2.96E-01	2.83E-01	1.45E-01
		1121.30		34.90	8.72E-01		2.03E+00	4.19E-01
		1189.05		16.23	9.29E-01		-1.23E-01	4.26E-01
		1221.41		26.98	5.57E-01		8.93E-02	2.55E-01
		1231.02		11.44	1.34E+00		-1.26E-01	6.12E-01
	IR-192	308.46		29.68	3.30E-01	2.50E-01	1.76E-01	1.56E-01
		468.07		48.10	2.50E-01		-7.31E-02	1.18E-01
	HG-203	279.19		77.30	1.45E-01	1.45E-01	6.05E-03	6.92E-02
	BI-207	569.67		97.72	1.02E-01	1.02E-01	-8.69E-03	4.78E-02
		1063.62		74.90	1.55E-01		4.39E-02	7.09E-02
+	TL-208	583.14	*	30.22	5.30E-01	1.79E-01	1.18E+00	2.55E-01
		860.37		4.48	2.66E+00		2.07E+00	1.24E+00
		2614.66	*	35.85	1.79E-01		7.26E-01	6.66E-02
	BI-210M	262.00		45.00	1.59E-01	1.59E-01	-5.12E-02	7.57E-02
		300.00		23.00	3.50E-01		-2.04E-02	1.67E-01
+	PB-210	46.50	*	4.25	3.51E+00	3.51E+00	3.10E+00	1.71E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	PB-211	404.84		2.90	3.18E+00	3.18E+00	1.08E+00	1.51E+00
		831.96		2.90	3.94E+00		-1.87E-02	1.83E+00
	BI-212	727.17		11.80	1.04E+00	1.04E+00	5.03E-01	4.87E-01
		1620.62		2.75	5.02E+00		3.74E+00	2.27E+00
+	PB-212	238.63	*	44.60	3.13E-01	3.13E-01	9.99E-01	1.53E-01
		300.09		3.41	2.36E+00		-1.38E-01	1.12E+00
+	BI-214	609.31	*	46.30	3.17E-01	3.17E-01	4.34E+00	1.52E-01
		1120.29	*	15.10	1.17E+00		4.25E+00	5.50E-01
		1764.49	*	15.80	5.47E-01		4.61E+00	2.28E-01
		2204.22	*	4.98	1.66E+00		4.25E+00	6.70E-01
+	PB-214	295.21	*	19.19	6.08E-01	3.75E-01	4.99E+00	2.94E-01
		351.92	*	37.19	3.75E-01		4.94E+00	1.82E-01
	RN-219	401.80		6.50	1.35E+00	1.35E+00	2.76E-01	6.41E-01
	RA-223	323.87		3.88	2.00E+00	2.00E+00	-4.53E-01	9.51E-01
+	RA-224	240.98	*	3.95	3.48E+00	3.48E+00	1.14E+01	1.70E+00
	RA-225	40.00		31.00	1.85E+00	1.85E+00	5.75E-01	8.94E-01
+	RA-226	186.21	*	3.28	3.63E+00	3.63E+00	8.42E+00	1.77E+00
	TH-227	50.10		8.40	1.31E+00	7.96E-01	1.63E-02	6.38E-01
		236.00		11.50	7.96E-01		-3.17E+00	3.84E-01
		256.20		6.30	1.27E+00		-1.80E-01	6.06E-01
+	AC-228	338.32	*	11.40	9.19E-01	5.15E-01	9.92E-01	4.41E-01
		911.07	*	27.70	5.15E-01		8.72E-01	2.42E-01
		969.11	*	16.60	1.19E+00		8.48E-01	5.66E-01
	TH-230	48.44		16.90	7.86E-01	7.86E-01	1.03E-01	3.83E-01
		62.85		4.60	2.36E+00		2.31E+00	1.15E+00
		67.67		0.37	2.80E+01		2.68E+01	1.37E+01
	PA-231	283.67		1.60	4.97E+00	3.32E+00	9.09E-01	2.37E+00
		302.67		2.30	3.32E+00		-2.58E-01	1.58E+00
	TH-231	25.64		14.70	6.82E+00	1.50E+00	-8.48E+00	3.31E+00
		84.21		6.40	1.50E+00		-3.28E+00	7.31E-01
	PA-233	311.98		38.60	3.80E-01	3.80E-01	-1.36E-01	1.80E-01
	PA-234	131.20		20.40	3.54E-01	3.54E-01	-1.01E-01	1.71E-01
		733.99		8.80	1.17E+00		4.69E-02	5.42E-01
		946.00		12.00	7.57E-01		-2.70E-01	3.41E-01
	PA-234M	1001.03		0.92	1.27E+01	1.27E+01	-5.75E+00	5.83E+00
	TH-234	63.29		3.80	2.87E+00	2.87E+00	1.10E+00	1.40E+00
	U-235	143.76		10.50	7.58E-01	7.58E-01	2.31E-01	3.67E-01
		163.35		4.70	1.66E+00		4.77E-01	8.01E-01
		205.31		4.70	1.69E+00		-7.31E-01	8.14E-01
	NP-237	86.50		12.60	8.27E-01	8.27E-01	-7.58E-02	4.05E-01
	NP-239	106.10		22.70	9.24E+02	9.24E+02	-4.84E+01	4.47E+02
		228.18		10.70	2.26E+03		4.17E+02	1.08E+03
		277.60		14.10	1.64E+03		-1.80E+02	7.82E+02
	AM-241	59.54		35.90	2.61E-01	2.61E-01	-2.57E-01	1.27E-01
+	AM-243	74.67	*	66.00	2.69E-01	2.69E-01	6.07E-01	1.33E-01
	CM-243	209.75		3.29	2.37E+00	5.42E-01	7.32E-01	1.14E+00
		228.14		10.60	7.47E-01		1.38E-01	3.59E-01
		277.60		14.00	5.42E-01		-5.93E-02	2.58E-01

Analysis Report for 1508002-04

FEEBRIS1D-8 075-076

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-8 075-076

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	46	83	102	195	200	146
25:	62	61	53	66	56	52	54	53
33:	56	59	69	65	55	59	46	78
41:	53	68	56	68	54	82	182	86
49:	58	79	69	70	79	100	64	67
57:	79	77	75	77	99	73	113	203
65:	110	113	124	140	121	110	92	123
73:	111	137	379	323	404	526	133	118
81:	102	92	87	137	128	86	173	238
89:	108	158	127	107	195	130	87	70
97:	83	85	71	69	63	63	54	51
105:	55	71	66	63	68	58	60	64
113:	59	67	66	58	72	59	67	60
121:	59	55	57	55	60	51	48	50
129:	66	71	62	53	60	54	64	58
137:	69	45	58	75	61	63	64	87
145:	72	52	63	57	55	60	52	57
153:	66	54	64	68	48	53	64	48
161:	47	69	72	62	47	35	55	45
169:	50	59	54	49	45	46	48	49
177:	50	57	47	50	46	55	45	37
185:	56	173	206	58	51	66	56	44
193:	66	48	44	43	52	59	52	38
201:	48	56	62	40	54	49	41	43
209:	45	53	41	29	36	41	52	30
217:	37	48	32	42	35	37	41	32
225:	42	33	48	41	44	30	42	31
233:	29	46	32	45	54	77	270	97
241:	84	219	184	29	22	31	41	30
249:	25	38	21	35	34	29	36	41
257:	38	27	45	29	26	25	19	33
265:	25	27	32	33	28	48	49	37
273:	37	28	36	30	24	37	14	32
281:	26	27	30	31	25	34	28	24
289:	35	24	28	28	31	49	317	359
297:	67	21	30	34	31	23	22	24
305:	23	23	20	20	23	30	25	14
313:	14	24	26	28	29	22	24	21
321:	20	29	20	26	25	16	26	31
329:	28	25	31	26	27	30	17	22
337:	23	39	61	31	25	22	23	28
345:	19	27	26	21	30	30	132	708
353:	375	44	34	21	25	17	15	16
361:	25	16	12	10	22	11	23	8

369:	17	20	22	14	16	19	26	19

Sample Title: FEEBRIS1D-8 075-076

Channel								
377:	12	16	18	20	17	19	15	21
385:	22	22	23	18	23	19	18	21
393:	25	17	20	21	24	15	15	15
401:	20	24	25	25	24	23	22	14
409:	24	27	19	16	16	17	20	23
417:	14	20	15	23	19	21	23	16
425:	16	15	19	22	21	13	24	15
433:	18	12	11	18	11	13	14	18
441:	21	14	21	10	11	14	24	21
449:	17	16	14	13	18	19	22	18
457:	7	9	8	12	11	18	29	18
465:	12	12	16	12	19	16	10	10
473:	10	12	12	11	8	12	8	18
481:	15	11	12	16	13	12	18	12
489:	15	10	7	8	18	7	21	10
497:	11	13	9	12	10	9	15	12
505:	12	11	6	9	15	44	56	38
513:	20	21	3	16	6	10	12	22
521:	15	12	15	7	12	9	15	12
529:	7	11	10	14	8	7	10	10
537:	13	13	12	12	5	9	14	9
545:	15	12	9	18	13	9	12	9
553:	12	9	11	11	11	11	11	8
561:	7	12	13	14	12	15	9	14
569:	12	10	8	15	13	12	10	6
577:	10	7	10	20	20	22	73	50
585:	21	11	12	11	8	16	6	8
593:	13	10	10	17	10	16	11	8
601:	14	14	9	9	6	10	16	57
609:	356	391	68	14	13	14	6	10
617:	10	9	9	8	15	10	7	8
625:	7	7	14	13	10	4	4	11
633:	9	9	11	6	11	16	8	6
641:	6	14	10	9	8	9	8	14
649:	8	7	8	6	6	9	4	7
657:	11	15	10	6	9	9	8	11
665:	12	11	4	8	9	9	7	9
673:	6	7	12	8	5	12	8	14
681:	9	9	9	8	11	6	10	6
689:	5	5	7	9	10	11	9	7
697:	12	9	15	8	9	9	18	18
705:	14	16	13	9	6	11	6	10
713:	11	4	11	12	1	10	9	16
721:	19	11	11	6	8	9	22	19
729:	16	4	7	7	8	9	8	12
737:	6	13	7	9	3	11	5	9
745:	11	12	7	11	9	11	10	9
753:	8	4	10	7	6	3	9	8
761:	9	7	7	8	7	6	11	39
769:	33	18	9	8	8	12	10	7
777:	5	7	4	11	11	8	13	7
785:	13	14	7	14	6	12	7	8
793:	3	9	18	8	7	6	4	6

801:	4	5	8	9	12	19	10	7

Sample Title: FEEBRIS1D-8 075-076

Channel								
809:	5	2	13	4	9	2	5	2
817:	4	13	5	9	8	4	9	5
825:	3	12	10	6	12	9	8	7
833:	9	7	6	12	5	10	10	7
841:	10	3	6	13	5	9	9	8
849:	9	4	9	10	4	10	4	4
857:	6	5	9	15	11	4	10	5
865:	4	9	8	5	10	9	6	7
873:	8	5	6	5	3	5	11	6
881:	8	9	7	5	7	5	6	6
889:	7	6	8	9	4	10	4	9
897:	7	14	6	5	6	5	10	8
905:	8	8	4	6	7	15	44	30
913:	8	6	6	3	5	5	7	7
921:	4	7	7	7	6	6	9	13
929:	6	8	5	9	18	24	14	8
937:	6	6	2	5	7	5	3	6
945:	4	6	2	5	2	4	6	3
953:	7	7	2	5	6	6	6	4
961:	3	3	5	11	19	4	13	13
969:	24	12	6	8	3	3	4	8
977:	8	5	6	5	4	7	8	3
985:	5	2	5	9	8	5	9	4
993:	3	1	3	5	10	2	2	10
1001:	8	6	6	10	10	9	6	10
1009:	6	4	11	18	5	7	9	4
1017:	8	6	5	1	2	3	6	9
1025:	6	2	7	5	4	4	4	5
1033:	7	7	7	7	4	5	7	6
1041:	5	5	6	2	10	9	4	6
1049:	1	2	9	8	4	2	7	10
1057:	1	3	4	5	7	7	6	5
1065:	6	5	3	6	5	5	13	7
1073:	3	6	4	3	4	2	5	6
1081:	3	6	7	0	2	4	3	5
1089:	6	1	6	6	4	6	3	4
1097:	11	3	6	5	4	4	1	8
1105:	4	7	6	5	7	3	8	4
1113:	7	2	1	6	3	4	34	69
1121:	61	14	8	6	7	5	5	7
1129:	6	3	2	4	7	4	4	3
1137:	5	2	8	6	4	1	9	3
1145:	8	7	6	2	8	9	6	5
1153:	5	7	19	10	2	9	5	5
1161:	7	7	7	6	2	8	3	3
1169:	7	4	9	1	6	4	7	8
1177:	2	5	8	2	7	11	6	4
1185:	5	6	5	6	11	4	4	4
1193:	5	10	3	4	6	5	5	4
1201:	2	4	3	1	5	7	5	6
1209:	3	5	6	7	1	6	0	4
1217:	3	5	6	7	7	5	4	4
1225:	6	5	7	7	4	5	7	4

1233:	4	8	7	7	17	43	16	8

Sample Title: FEEBRIS1D-8 075-076

Channel								
1241:	4	8	5	4	4	5	3	2
1249:	7	2	3	2	5	10	5	4
1257:	3	3	2	5	4	3	1	5
1265:	9	9	3	4	1	4	2	4
1273:	2	3	3	2	4	4	4	5
1281:	9	6	7	3	2	4	7	7
1289:	5	5	6	5	6	2	1	3
1297:	0	2	7	3	6	3	4	5
1305:	2	2	2	2	3	2	3	2
1313:	5	4	1	3	6	2	6	2
1321:	2	5	1	4	3	1	2	4
1329:	3	0	2	1	6	2	4	5
1337:	3	2	3	6	5	3	3	4
1345:	1	4	3	1	3	1	3	2
1353:	6	4	2	3	8	3	3	3
1361:	3	1	6	3	2	3	7	4
1369:	5	0	2	1	2	3	5	5
1377:	23	16	4	4	2	4	6	2
1385:	7	9	2	2	4	3	2	5
1393:	2	2	1	1	3	2	5	7
1401:	6	6	3	0	0	3	11	13
1409:	10	4	4	5	5	4	3	1
1417:	4	2	3	0	5	2	3	4
1425:	4	2	1	0	2	2	5	2
1433:	3	0	2	5	2	0	0	3
1441:	1	2	4	1	2	6	1	1
1449:	2	2	5	3	5	1	3	6
1457:	4	5	24	64	89	43	5	3
1465:	2	4	1	2	1	3	4	2
1473:	0	2	3	3	2	1	4	6
1481:	9	2	3	1	5	3	4	3
1489:	2	4	2	4	3	2	2	3
1497:	4	3	3	1	2	1	1	5
1505:	2	1	3	9	14	8	3	4
1513:	5	1	3	1	5	3	3	4
1521:	1	5	4	3	4	1	3	10
1529:	1	1	1	1	3	2	2	0
1537:	0	4	2	4	1	3	4	2
1545:	3	0	7	2	1	2	2	1
1553:	2	2	2	2	1	2	2	5
1561:	0	4	2	2	3	6	2	1
1569:	2	3	1	4	2	0	3	3
1577:	2	2	2	2	3	6	7	1
1585:	0	2	6	8	1	2	2	3
1593:	8	2	2	2	3	5	3	1
1601:	1	1	3	0	2	1	3	2
1609:	2	1	2	1	3	1	0	3
1617:	6	4	2	7	5	1	4	1
1625:	1	2	1	2	2	4	1	2
1633:	2	2	1	2	1	1	1	1
1641:	2	1	3	2	4	4	0	1
1649:	2	0	1	1	1	1	0	4
1657:	2	1	2	3	5	4	0	2

1665:	1	1	2	0	1	2	3	1

Sample Title: FEEBRIS1D-8 075-076

Channel								
1673:	2	0	1	2	1	2	2	3
1681:	0	0	2	1	2	3	0	2
1689:	0	3	2	3	1	0	2	1
1697:	1	1	0	1	3	1	1	2
1705:	1	2	2	1	2	1	0	1
1713:	1	2	0	1	2	2	1	0
1721:	1	2	1	4	2	3	3	8
1729:	12	10	2	1	0	3	2	0
1737:	1	0	0	2	1	1	2	1
1745:	1	1	0	2	2	0	3	1
1753:	0	0	1	1	0	0	1	0
1761:	3	5	20	58	43	10	2	2
1769:	1	0	1	0	1	1	0	2
1777:	0	2	2	1	0	1	1	2
1785:	0	1	0	2	0	1	2	0
1793:	0	0	4	1	2	2	0	0
1801:	0	2	0	0	0	1	0	0
1809:	0	1	1	0	1	1	0	0
1817:	1	0	0	1	2	0	1	1
1825:	1	2	2	0	1	3	0	1
1833:	2	4	1	1	1	4	0	1
1841:	0	1	0	0	1	3	11	5
1849:	3	1	1	2	0	0	0	0
1857:	0	1	2	0	1	0	1	2
1865:	4	1	1	0	1	2	3	2
1873:	0	2	3	0	1	0	1	1
1881:	0	0	1	2	0	0	1	0
1889:	0	0	0	0	1	1	1	2
1897:	1	1	0	0	1	2	0	1
1905:	1	1	0	0	2	1	1	0
1913:	1	1	1	0	1	2	1	1
1921:	0	0	0	2	2	2	2	1
1929:	1	0	0	0	2	3	1	1
1937:	0	0	1	1	1	1	0	1
1945:	0	3	1	2	0	2	0	3
1953:	0	1	1	0	1	2	1	1
1961:	1	1	0	1	1	1	1	1
1969:	1	1	0	0	2	0	3	2
1977:	1	2	1	0	0	1	0	1
1985:	2	0	0	1	0	0	1	1
1993:	2	1	1	0	1	2	0	0
2001:	0	2	1	3	3	1	1	0
2009:	1	1	1	0	1	0	0	0
2017:	1	0	0	1	0	1	0	1
2025:	1	0	3	0	2	2	1	2
2033:	0	0	0	0	0	0	0	0
2041:	1	0	0	0	0	1	0	0
2049:	0	0	0	2	2	1	1	0
2057:	0	3	1	1	0	1	1	1
2065:	0	1	0	0	0	0	0	1
2073:	0	0	1	3	1	2	0	1
2081:	1	1	0	2	0	2	1	1
2089:	1	0	1	0	1	0	0	1

2097:	0	1	1	0	0	1	2	1

Sample Title: FEEBRIS1D-8 075-076

Channel								
2105:	1	0	0	1	1	2	1	0
2113:	1	1	1	2	4	8	4	1
2121:	2	1	0	0	1	1	0	1
2129:	0	0	1	2	2	1	0	1
2137:	1	1	2	0	0	0	1	0
2145:	1	0	0	0	0	0	0	3
2153:	0	1	0	0	1	0	0	2
2161:	2	1	0	2	1	0	0	1
2169:	0	1	0	0	1	0	0	1
2177:	0	0	0	0	0	0	3	2
2185:	1	0	1	0	0	1	1	1
2193:	0	1	1	0	0	3	2	0
2201:	0	5	16	11	5	3	0	0
2209:	1	0	2	0	0	2	0	0
2217:	0	2	0	0	0	0	0	0
2225:	0	0	0	0	0	1	2	1
2233:	0	0	1	1	0	1	0	1
2241:	0	1	0	0	0	1	0	2
2249:	0	1	2	0	0	0	2	0
2257:	2	0	0	0	0	1	0	1
2265:	0	2	0	0	1	2	0	1
2273:	0	2	0	0	1	0	0	0
2281:	1	2	0	0	1	1	1	1
2289:	1	1	0	1	3	1	2	2
2297:	0	1	0	0	0	0	1	0
2305:	0	0	0	0	0	1	1	0
2313:	1	2	0	1	0	0	0	0
2321:	0	1	1	2	0	1	0	1
2329:	0	0	1	1	0	1	3	2
2337:	0	1	0	2	0	1	1	1
2345:	0	0	0	0	1	0	1	0
2353:	1	1	0	0	0	0	0	0
2361:	0	0	2	0	1	4	0	3
2369:	0	1	0	1	1	0	0	1
2377:	0	0	2	0	1	1	0	0
2385:	0	1	0	0	0	2	1	0
2393:	0	2	2	1	0	0	0	1
2401:	0	1	0	2	0	0	0	1
2409:	1	0	0	0	0	0	1	1
2417:	1	0	1	0	1	1	1	0
2425:	1	2	1	1	0	0	1	0
2433:	2	0	1	2	1	1	1	1
2441:	0	0	2	0	2	2	4	5
2449:	2	0	1	0	0	0	0	1
2457:	1	0	0	1	1	0	0	0
2465:	0	0	0	1	0	1	0	0
2473:	0	0	0	0	0	0	2	0
2481:	1	0	0	0	0	0	0	0
2489:	0	0	1	1	0	0	0	2
2497:	0	1	1	1	1	2	1	0
2505:	2	1	0	0	0	0	0	0
2513:	0	0	0	0	0	0	0	1
2521:	0	1	0	0	0	0	1	0

2529:	0	0	1	0	0	0	0	0

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Channel								
2537:	0	0	0	0	0	0	1	0
2545:	1	0	0	1	0	0	0	0
2553:	0	0	0	1	0	0	0	1
2561:	0	0	0	0	0	0	1	0
2569:	0	0	0	0	0	0	1	0
2577:	0	0	1	0	1	1	2	0
2585:	1	0	0	0	0	0	0	0
2593:	0	0	1	0	0	0	0	0
2601:	0	0	1	0	1	0	0	0
2609:	0	0	2	10	10	15	6	4
2617:	1	0	0	0	2	0	1	0
2625:	1	0	0	0	0	0	1	0
2633:	0	0	1	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	1	1	0	0	0	0	0
2657:	0	0	1	1	1	0	1	0
2665:	0	0	1	1	0	0	0	1
2673:	0	0	1	1	1	0	0	0
2681:	0	0	1	0	0	0	1	0
2689:	0	0	0	0	1	1	0	0
2697:	1	0	0	0	0	0	1	0
2705:	0	0	0	0	0	0	1	0
2713:	0	0	0	0	0	0	0	1
2721:	0	1	0	0	1	0	0	0
2729:	0	0	1	0	1	0	0	0
2737:	0	0	1	0	0	0	0	0
2745:	1	0	1	0	0	1	0	0
2753:	1	1	1	0	0	1	0	0
2761:	0	2	0	1	1	0	1	0
2769:	1	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	1	1
2785:	0	0	0	0	0	0	0	0
2793:	0	1	0	1	0	1	0	0
2801:	0	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	1	0	0	0
2833:	0	2	1	1	0	0	1	1
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	1	0	0	0	0
2857:	0	2	0	0	0	0	0	0
2865:	0	0	0	0	0	0	0	1
2873:	0	0	1	0	0	0	0	0
2881:	1	0	1	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	1	0	0	0	0
2905:	0	1	0	0	1	0	0	0
2913:	1	0	0	0	0	0	1	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	2	1	0	1	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	1	0	1	0	0	0	0	1

2961:	0	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
2969:	0	0	0	0	0	1	0	0
2977:	0	1	0	0	1	0	0	0
2985:	0	0	1	0	0	0	0	0
2993:	0	0	0	0	0	0	0	1
3001:	1	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	1	0	0	0	0	2
3025:	0	0	0	0	0	0	0	0
3033:	1	0	0	0	0	0	1	1
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	1	1	0	0	1	0	0	0
3065:	1	0	0	0	0	0	0	0
3073:	0	0	0	1	0	0	1	0
3081:	0	1	0	0	0	0	0	0
3089:	0	1	0	0	0	0	0	1
3097:	0	0	0	0	0	1	0	0
3105:	0	1	0	1	1	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	1	0	0	0	1	0
3129:	0	0	0	0	1	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	1	0	0	0
3153:	0	0	0	0	0	0	1	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	1	0	1	0	0	0
3177:	0	0	0	0	0	0	0	1
3185:	0	0	0	0	0	0	1	0
3193:	1	0	0	0	0	0	0	1
3201:	0	0	0	0	0	1	0	0
3209:	0	0	0	0	0	0	1	0
3217:	0	0	0	0	0	1	0	0
3225:	0	0	0	1	0	1	0	0
3233:	0	1	0	2	0	1	1	0
3241:	0	0	0	0	1	0	0	0
3249:	0	1	1	0	2	0	0	0
3257:	0	0	0	0	1	0	0	0
3265:	1	0	0	0	0	0	1	0
3273:	0	0	0	0	0	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	1
3297:	0	0	0	1	0	0	2	0
3305:	0	0	0	1	0	0	1	0
3313:	0	0	0	0	0	1	1	1
3321:	0	0	0	1	0	0	1	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	1	0
3345:	1	0	1	0	0	0	0	0
3353:	0	1	1	0	0	0	1	0
3361:	1	0	0	0	0	1	0	0
3369:	0	0	0	0	1	0	0	0
3377:	0	0	0	0	1	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-8 075-076

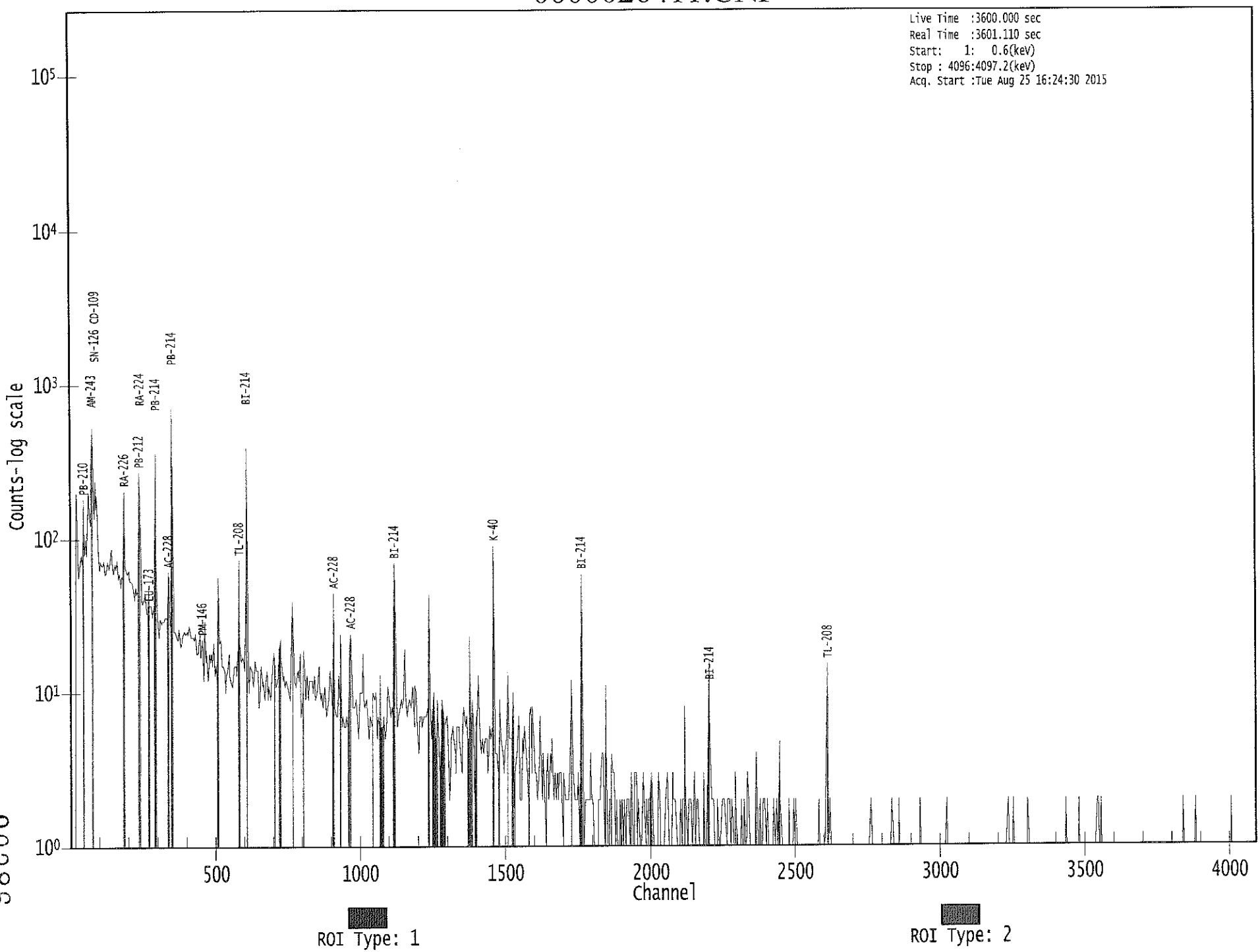
Channel								
3401:	0	0	0	0	0	1	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	1	1	0	0	0	0	0	0
3433:	0	0	2	0	0	1	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	1	0	0	0	0	0
3457:	0	0	0	1	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	0	0	0	0	0	0	2
3481:	0	1	1	0	0	0	0	0
3489:	0	0	0	1	0	1	0	0
3497:	0	0	0	1	0	0	0	1
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	1	0	0	0	1
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	0	0	0	0	1
3537:	1	0	0	0	0	0	2	0
3545:	0	0	2	1	0	0	0	0
3553:	2	0	0	2	0	0	0	0
3561:	0	0	0	0	0	1	0	0
3569:	0	1	0	1	0	1	0	0
3577:	0	0	0	1	0	0	0	0
3585:	0	1	0	0	0	0	0	0
3593:	0	0	0	1	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	1	1
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	1
3705:	1	0	0	0	1	0	0	0
3713:	0	0	0	0	0	1	1	0
3721:	0	0	0	0	0	1	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	1	0	0
3745:	0	0	0	0	0	0	0	0
3753:	1	0	0	0	0	0	0	0
3761:	0	0	1	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	1	0	1	0	0	0	0
3793:	0	0	1	0	0	0	0	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	1	0	0	0	0	0	1	0

3825:	1	1	0	0	1	0	0	0

Sample Title: FEEBRIS1D-8 075-076

Channel								
3833:	0	0	0	0	0	0	2	0
3841:	0	0	1	0	1	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	1	0	0	0	0	0	1	0
3881:	0	1	2	0	0	0	0	0
3889:	0	0	1	0	0	0	1	0
3897:	0	0	1	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	1	0	0	0	0	0	0
3929:	0	0	0	0	1	0	1	0
3937:	0	0	0	1	0	1	0	0
3945:	0	0	0	0	1	0	0	0
3953:	1	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	1	0	0	1	0	0	0	0
3977:	0	0	1	0	0	0	1	0
3985:	0	0	0	1	0	1	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	2	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	1	0	0
4025:	0	1	0	0	0	0	1	0
4033:	0	0	0	1	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	0	0	0	0
4057:	0	1	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	1	0
4081:	0	0	1	0	0	0	0	0
4089:	0	0	0	0	0	0	0	1

0000026411.CNF



00386

Apex-Gamma

Analysis Report for 1508002-05
FEEBRIS1D-8 090-091

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-05
Sample Description	: FEEBRIS1D-8 090-091
Sample Type	: SOIL
Sample Size	: 6.520E+02 grams
Facility	: Countroom
Sample Taken On	: 7/29/2015 10:37:17AM
Acquisition Started	: 8/25/2015 4:16:22PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.0 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26408

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 5:16:26PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	32.11	32.22	0.0000	0.00
2	46.05	46.15	0.0000	0.00
3	53.24	53.34	0.0000	0.00
4	76.55	76.64	0.0000	0.00
5	88.14	88.22	0.0000	0.00
6	93.03	93.11	0.0000	0.00
7	99.22	99.29	0.0000	0.00
8	154.34	154.39	0.0000	0.00
9	209.76	209.78	0.0000	0.00
10	239.02	239.01	0.0000	0.00
11	242.09	242.09	0.0000	0.00
12	269.63	269.61	0.0000	0.00
13	295.26	295.23	0.0000	0.00
14	300.16	300.12	0.0000	0.00
15	338.74	338.68	0.0000	0.00
16	352.06	351.99	0.0000	0.00
17	387.80	387.72	0.0000	0.00
18	463.59	463.47	0.0000	0.00
19	511.05	510.90	0.0000	0.00
20	518.57	518.43	0.0000	0.00
21	526.39	526.23	0.0000	0.00
22	583.44	583.26	0.0000	0.00
23	590.99	590.81	0.0000	0.00
24	609.37	609.17	0.0000	0.00
25	727.41	727.16	0.0000	0.00
26	795.31	795.04	0.0000	0.00
27	861.55	861.25	0.0000	0.00
28	881.57	881.26	0.0000	0.00
29	911.90	911.58	0.0000	0.00
30	969.51	969.16	0.0000	0.00
31	1002.59	1002.23	0.0000	0.00
32	1120.64	1120.23	0.0000	0.00
33	1189.56	1189.13	0.0000	0.00
34	1205.78	1205.35	0.0000	0.00
35	1287.59	1287.12	0.0000	0.00
36	1461.23	1460.71	0.0000	0.00
37	1510.29	1509.75	0.0000	0.00
38	1558.95	1558.40	0.0000	0.00
39	1589.79	1589.23	0.0000	0.00
40	1729.00	1728.41	0.0000	0.00
41	1764.82	1764.21	0.0000	0.00
42	1848.13	1847.51	0.0000	0.00

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1927.82	1927.18	0.0000	0.00
44	1941.65	1941.00	0.0000	0.00
45	2103.47	2102.79	0.0000	0.00
46	2120.37	2119.69	0.0000	0.00
47	2204.19	2203.50	0.0000	0.00
48	2557.94	2557.20	0.0000	0.00
49	2614.49	2613.75	0.0000	0.00
50	3517.56	3516.83	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	32.11	29 -	35	32.22	8.77E+01	80.04	1.10E+03	1.23
	2	46.05	43 -	49	46.15	2.14E+02	73.95	8.18E+02	2.15
	3	53.24	51 -	55	53.34	4.34E+01	51.90	5.63E+02	1.79
	4	76.55	72 -	82	76.64	6.54E+02	126.01	1.75E+03	3.70
M	5	88.14	83 -	96	88.22	1.62E+02	66.90	7.51E+02	1.97
m	6	93.03	83 -	96	93.11	1.93E+02	67.73	6.41E+02	1.99
	7	99.22	97 -	102	99.29	7.70E+01	57.58	6.04E+02	2.93
	8	154.34	152 -	157	154.39	4.39E+01	50.54	4.78E+02	3.22
	9	209.76	207 -	213	209.78	4.47E+01	51.97	4.53E+02	1.46
M	10	239.02	235 -	246	239.01	4.44E+02	57.55	2.86E+02	1.55
m	11	242.09	235 -	246	242.09	8.17E+01	43.78	2.48E+02	1.56
	12	269.63	265 -	273	269.61	7.08E+01	50.59	3.48E+02	4.22
M	13	295.26	292 -	303	295.23	1.96E+02	39.53	1.66E+02	1.65
m	14	300.16	292 -	303	300.12	3.87E+01	31.41	1.73E+02	1.66
	15	338.74	334 -	344	338.68	9.82E+01	58.31	4.00E+02	1.89
	16	352.06	348 -	356	351.99	2.89E+02	52.59	2.49E+02	1.39
	17	387.80	385 -	391	387.72	2.81E+01	32.31	1.72E+02	3.64
	18	463.59	460 -	468	463.47	5.33E+01	34.71	1.51E+02	1.87
	19	511.05	507 -	514	510.90	1.20E+02	39.50	1.81E+02	1.87
	20	518.57	516 -	522	518.43	2.50E+01	26.84	1.08E+02	2.92
	21	526.39	523 -	531	526.23	3.36E+01	32.37	1.43E+02	4.57
	22	583.44	579 -	587	583.26	1.47E+02	38.67	1.39E+02	1.74
	23	590.99	588 -	594	590.81	1.98E+01	24.80	9.65E+01	1.26
	24	609.37	605 -	612	609.17	1.91E+02	38.83	1.24E+02	1.76
	25	727.41	724 -	730	727.16	4.80E+01	25.17	8.01E+01	2.62
	26	795.31	792 -	801	795.04	2.49E+01	29.70	1.16E+02	2.24
	27	861.55	858 -	866	861.25	3.92E+01	24.49	6.97E+01	1.98
	28	881.57	874 -	888	881.26	4.14E+01	33.03	9.72E+01	9.85
	29	911.90	906 -	917	911.58	1.20E+02	39.70	1.33E+02	2.11
	30	969.51	966 -	973	969.16	5.99E+01	31.75	1.12E+02	1.67
	31	1002.59	999 -	1007	1002.23	2.27E+01	27.16	1.01E+02	2.66
	32	1120.64	1116 -	1124	1120.23	3.82E+01	29.77	1.14E+02	1.54
	33	1189.56	1186 -	1192	1189.13	1.55E+01	20.21	6.30E+01	2.10
	34	1205.78	1193 -	1218	1205.35	7.33E+01	63.24	2.47E+02	23.24
	35	1287.59	1281 -	1293	1287.12	2.73E+01	27.55	7.14E+01	2.60
	36	1461.23	1454 -	1466	1460.71	6.85E+02	54.42	2.60E+01	2.30
	37	1510.29	1505 -	1514	1509.75	1.27E+01	12.45	1.46E+01	1.86
	38	1558.95	1555 -	1561	1558.40	6.50E+00	8.03	7.00E+00	3.65
	39	1589.79	1583 -	1595	1589.23	2.75E+01	21.01	3.90E+01	1.31
	40	1729.00	1723 -	1732	1728.41	1.77E+01	13.23	1.47E+01	1.88

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1764.82	1760 -	1770	1764.21	3.95E+01	15.51	1.10E+01	2.45
42	1848.13	1843 -	1851	1847.51	1.08E+01	8.50	4.38E+00	3.78
43	1927.82	1922 -	1929	1927.18	4.57E+00	6.63	4.86E+00	1.11
44	1941.65	1937 -	1944	1941.00	8.00E+00	5.66	0.00E+00	1.00
45	2103.47	2098 -	2107	2102.79	1.13E+01	10.68	9.50E+00	1.82
46	2120.37	2116 -	2122	2119.69	7.00E+00	8.03	6.00E+00	2.87
47	2204.19	2199 -	2206	2203.50	1.20E+01	6.93	0.00E+00	2.88
48	2557.94	2554 -	2560	2557.20	5.43E+00	6.34	3.14E+00	1.83
49	2614.49	2608 -	2618	2613.75	7.10E+01	16.85	0.00E+00	3.63
50	3517.56	3513 -	3519	3516.83	6.00E+00	4.90	0.00E+00	1.98

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	32.11	29 -	35	8.77E+01	80.04	1.10E+03	6.40E+01
	2	46.05	43 -	49	2.14E+02	73.95	8.18E+02	5.58E+01
	3	53.24	51 -	55	4.34E+01	51.90	5.63E+02	4.13E+01
	4	76.55	72 -	82	6.54E+02	126.01	1.75E+03	9.47E+01
M	5	88.14	83 -	96	1.62E+02	66.90	7.51E+02	4.50E+01
m	6	93.03	83 -	96	1.93E+02	67.73	6.41E+02	4.16E+01
	7	99.22	97 -	102	7.70E+01	57.58	6.04E+02	4.51E+01
	8	154.34	152 -	157	4.39E+01	50.54	4.78E+02	4.01E+01
	9	209.76	207 -	213	4.47E+01	51.97	4.53E+02	4.13E+01
M	10	239.02	235 -	246	4.44E+02	57.55	2.86E+02	2.78E+01
m	11	242.09	235 -	246	8.17E+01	43.78	2.48E+02	2.59E+01
	12	269.63	265 -	273	7.08E+01	50.59	3.48E+02	3.92E+01
M	13	295.26	292 -	303	1.96E+02	39.53	1.66E+02	2.12E+01
m	14	300.16	292 -	303	3.87E+01	31.41	1.73E+02	2.16E+01
	15	338.74	334 -	344	9.82E+01	58.31	4.00E+02	4.51E+01
	16	352.06	348 -	356	2.89E+02	52.59	2.49E+02	1.46E+01
	17	387.80	385 -	391	2.81E+01	32.31	1.72E+02	2.51E+01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
18	463.59	460 -	468	5.33E+01	34.71	1.51E+02	2.59E+01
19	511.05	507 -	514	1.20E+02	39.50	1.81E+02	2.70E+01
20	518.57	516 -	522	2.50E+01	26.84	1.08E+02	2.05E+01
21	526.39	523 -	531	3.36E+01	32.37	1.43E+02	2.48E+01
22	583.44	579 -	587	1.47E+02	38.67	1.39E+02	2.47E+01
23	590.99	588 -	594	1.98E+01	24.80	9.65E+01	1.90E+01
24	609.37	605 -	612	1.91E+02	38.83	1.24E+02	2.24E+01
25	727.41	724 -	730	4.80E+01	25.17	8.01E+01	1.73E+01
26	795.31	792 -	801	2.49E+01	29.70	1.16E+02	2.30E+01
27	861.55	858 -	866	3.92E+01	24.49	6.97E+01	1.73E+01
28	881.57	874 -	888	4.14E+01	33.03	9.72E+01	2.50E+01
29	911.90	906 -	917	1.20E+02	39.70	1.33E+02	2.72E+01
30	969.51	966 -	973	5.99E+01	31.75	1.12E+02	2.28E+01
31	1002.59	999 -	1007	2.27E+01	27.16	1.01E+02	1.20E+01
32	1120.64	1116 -	1124	3.82E+01	29.77	1.14E+02	2.23E+01
33	1189.56	1186 -	1192	1.55E+01	20.21	6.30E+01	1.53E+01
34	1205.78	1193 -	1218	7.33E+01	63.24	2.47E+02	5.00E+01
35	1287.59	1281 -	1293	2.73E+01	27.55	7.14E+01	2.10E+01
36	1461.23	1454 -	1466	6.85E+02	54.42	2.60E+01	1.22E+01
37	1510.29	1505 -	1514	1.27E+01	12.45	1.46E+01	8.39E+00
38	1558.95	1555 -	1561	6.50E+00	8.03	7.00E+00	5.10E+00
39	1589.79	1583 -	1595	2.75E+01	21.01	3.90E+01	1.50E+01
40	1729.00	1723 -	1732	1.77E+01	13.23	1.47E+01	8.40E+00
41	1764.82	1760 -	1770	3.95E+01	15.51	1.10E+01	7.47E+00
42	1848.13	1843 -	1851	1.08E+01	8.50	4.38E+00	4.43E+00
43	1927.82	1922 -	1929	4.57E+00	6.63	4.86E+00	4.17E+00
44	1941.65	1937 -	1944	8.00E+00	5.66	0.00E+00	0.00E+00
45	2103.47	2098 -	2107	1.13E+01	10.68	9.50E+00	6.83E+00
46	2120.37	2116 -	2122	7.00E+00	8.03	6.00E+00	4.97E+00
47	2204.19	2199 -	2206	1.20E+01	6.93	0.00E+00	0.00E+00
48	2557.94	2554 -	2560	5.43E+00	6.34	3.14E+00	3.54E+00
49	2614.49	2608 -	2618	7.10E+01	16.85	0.00E+00	0.00E+00
50	3517.56	3513 -	3519	6.00E+00	4.90	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	32.11	29 -	35	32.22	8.77E+01	80.04	1.10E+03	.....
	2	46.05	43 -	49	46.15	2.14E+02	73.95	8.18E+02	PB-210
	3	53.24	51 -	55	53.34	4.34E+01	51.90	5.63E+02	.....
	4	76.55	72 -	82	76.64	6.54E+02	126.01	1.75E+03	.....
M	5	88.14	83 -	96	88.22	1.62E+02	66.90	7.51E+02	CD-109
									LU-176
									SN-126
m	6	93.03	83 -	96	93.11	1.93E+02	67.73	6.41E+02	GA-67
	7	99.22	97 -	102	99.29	7.70E+01	57.58	6.04E+02	.....
	8	154.34	152 -	157	154.39	4.39E+01	50.54	4.78E+02	.....
	9	209.76	207 -	213	209.78	4.47E+01	51.97	4.53E+02	CM-243
									GA-67
M	10	239.02	235 -	246	239.01	4.44E+02	57.55	2.86E+02	PB-212
m	11	242.09	235 -	246	242.09	8.17E+01	43.78	2.48E+02	.....
	12	269.63	265 -	273	269.61	7.08E+01	50.59	3.48E+02	.....
M	13	295.26	292 -	303	295.23	1.96E+02	39.53	1.66E+02	PB-214
m	14	300.16	292 -	303	300.12	3.87E+01	31.41	1.73E+02	GA-67
									PB-212
									BI-210M
	15	338.74	334 -	344	338.68	9.82E+01	58.31	4.00E+02	AC-228
	16	352.06	348 -	356	351.99	2.89E+02	52.59	2.49E+02	PB-214
	17	387.80	385 -	391	387.72	2.81E+01	32.31	1.72E+02	.....
	18	463.59	460 -	468	463.47	5.33E+01	34.71	1.51E+02	SB-125
	19	511.05	507 -	514	510.90	1.20E+02	39.50	1.81E+02	.....
	20	518.57	516 -	522	518.43	2.50E+01	26.84	1.08E+02	.....
	21	526.39	523 -	531	526.23	3.36E+01	32.37	1.43E+02	.....
	22	583.44	579 -	587	583.26	1.47E+02	38.67	1.39E+02	TL-208
	23	590.99	588 -	594	590.81	1.98E+01	24.80	9.65E+01	.....
	24	609.37	605 -	612	609.17	1.91E+02	38.83	1.24E+02	BI-214
	25	727.41	724 -	730	727.16	4.80E+01	25.17	8.01E+01	BI-212
	26	795.31	792 -	801	795.04	2.49E+01	29.70	1.16E+02	CS-134
	27	861.55	858 -	866	861.25	3.92E+01	24.49	6.97E+01	.....
	28	881.57	874 -	888	881.26	4.14E+01	33.03	9.72E+01	.....
	29	911.90	906 -	917	911.58	1.20E+02	39.70	1.33E+02	LU-172
									AC-228
	30	969.51	966 -	973	969.16	5.99E+01	31.75	1.12E+02	AC-228
	31	1002.59	999 -	1007	1002.23	2.27E+01	27.16	1.01E+02	.....
	32	1120.64	1116 -	1124	1120.23	3.82E+01	29.77	1.14E+02	SC-46
									BI-214
									TA-182
	33	1189.56	1186 -	1192	1189.13	1.55E+01	20.21	6.30E+01	TA-182

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
34	1205.78	1193 -	1218	1205.35	7.33E+01	63.24	2.47E+02	.....
35	1287.59	1281 -	1293	1287.12	2.73E+01	27.55	7.14E+01	.....
36	1461.23	1454 -	1466	1460.71	6.85E+02	54.42	2.60E+01	K-40
37	1510.29	1505 -	1514	1509.75	1.27E+01	12.45	1.46E+01	.....
38	1558.95	1555 -	1561	1558.40	6.50E+00	8.03	7.00E+00	.....
39	1589.79	1583 -	1595	1589.23	2.75E+01	21.01	3.90E+01	.....
40	1729.00	1723 -	1732	1728.41	1.77E+01	13.23	1.47E+01	.....
41	1764.82	1760 -	1770	1764.21	3.95E+01	15.51	1.10E+01	BI-214
42	1848.13	1843 -	1851	1847.51	1.08E+01	8.50	4.38E+00	.....
43	1927.82	1922 -	1929	1927.18	4.57E+00	6.63	4.86E+00	.....
44	1941.65	1937 -	1944	1941.00	8.00E+00	5.66	0.00E+00	.....
45	2103.47	2098 -	2107	2102.79	1.13E+01	10.68	9.50E+00	.....
46	2120.37	2116 -	2122	2119.69	7.00E+00	8.03	6.00E+00	.....
47	2204.19	2199 -	2206	2203.50	1.20E+01	6.93	0.00E+00	BI-214
48	2557.94	2554 -	2560	2557.20	5.43E+00	6.34	3.14E+00	.....
49	2614.49	2608 -	2618	2613.75	7.10E+01	16.85	0.00E+00	TL-208
50	3517.56	3513 -	3519	3516.83	6.00E+00	4.90	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	32.11	8.77E+01	80.04	2.82E-03	1.68E-03
	2	46.05	2.14E+02	73.95	1.30E-02	1.68E-03
	3	53.24	4.34E+01	51.90	1.83E-02	1.68E-03
	4	76.55	6.54E+02	126.01	2.74E-02	3.37E-03
M	5	88.14	1.62E+02	66.90	2.84E-02	4.50E-03
m	6	93.03	1.93E+02	67.73	2.85E-02	4.28E-03
	7	99.22	7.70E+01	57.58	2.83E-02	4.01E-03
	8	154.34	4.39E+01	50.54	2.37E-02	2.02E-03
	9	209.76	4.47E+01	51.97	1.95E-02	1.63E-03
M	10	239.02	4.44E+02	57.55	1.79E-02	1.60E-03
m	11	242.09	8.17E+01	43.78	1.77E-02	1.60E-03
	12	269.63	7.08E+01	50.59	1.65E-02	1.57E-03
M	13	295.26	1.96E+02	39.53	1.55E-02	1.48E-03

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	14	300.16	3.87E+01	31.41	1.53E-02	1.46E-03
	15	338.74	9.82E+01	58.31	1.41E-02	1.27E-03
	16	352.06	2.89E+02	52.59	1.37E-02	1.21E-03
	17	387.80	2.81E+01	32.31	1.28E-02	1.04E-03
	18	463.59	5.33E+01	34.71	1.13E-02	9.46E-04
	19	511.05	1.20E+02	39.50	1.06E-02	8.98E-04
	20	518.57	2.50E+01	26.84	1.04E-02	8.91E-04
	21	526.39	3.36E+01	32.37	1.03E-02	8.83E-04
	22	583.44	1.47E+02	38.67	9.58E-03	8.25E-04
	23	590.99	1.98E+01	24.80	9.49E-03	8.17E-04
	24	609.37	1.91E+02	38.83	9.27E-03	7.98E-04
	25	727.41	4.80E+01	25.17	8.08E-03	7.03E-04
	26	795.31	2.49E+01	29.70	7.53E-03	6.59E-04
	27	861.55	3.92E+01	24.49	7.06E-03	6.17E-04
	28	881.57	4.14E+01	33.03	6.93E-03	6.04E-04
	29	911.90	1.20E+02	39.70	6.74E-03	5.86E-04
	30	969.51	5.99E+01	31.75	6.41E-03	5.57E-04
	31	1002.59	2.27E+01	27.16	6.24E-03	5.40E-04
	32	1120.64	3.82E+01	29.77	5.70E-03	4.80E-04
	33	1189.56	1.55E+01	20.21	5.44E-03	4.60E-04
	34	1205.78	7.33E+01	63.24	5.38E-03	4.68E-04
	35	1287.59	2.73E+01	27.55	5.12E-03	5.06E-04
	36	1461.23	6.85E+02	54.42	4.67E-03	4.73E-04
	37	1510.29	1.27E+01	12.45	4.57E-03	4.53E-04
	38	1558.95	6.50E+00	8.03	4.48E-03	4.33E-04
	39	1589.79	2.75E+01	21.01	4.43E-03	4.20E-04
	40	1729.00	1.77E+01	13.23	4.23E-03	3.62E-04
	41	1764.82	3.95E+01	15.51	4.18E-03	3.47E-04
	42	1848.13	1.08E+01	8.50	4.10E-03	3.18E-04
	43	1927.82	4.57E+00	6.63	4.04E-03	3.18E-04
	44	1941.65	8.00E+00	5.66	4.03E-03	3.18E-04
	45	2103.47	1.13E+01	10.68	3.95E-03	3.18E-04
	46	2120.37	7.00E+00	8.03	3.95E-03	3.18E-04
	47	2204.19	1.20E+01	6.93	3.93E-03	3.18E-04
	48	2557.94	5.43E+00	6.34	4.02E-03	3.18E-04
	49	2614.49	7.10E+01	16.85	4.05E-03	3.18E-04
	50	3517.56	6.00E+00	4.90	5.52E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	32.11	8.77E+01	80.04			8.77E+01	8.00E+01
	2	46.05	2.14E+02	73.95	7.29E+01	8.80E+00	1.41E+02	7.45E+01
	3	53.24	4.34E+01	51.90			4.34E+01	5.19E+01
	4	76.55	6.54E+02	126.01	2.65E+01	9.95E+00	6.27E+02	1.26E+02
M	5	88.14	1.62E+02	66.90	6.84E+00	1.23E+00	1.55E+02	6.69E+01
m	6	93.03	1.93E+02	67.73	6.54E+01	3.76E+00	1.28E+02	6.78E+01
	7	99.22	7.70E+01	57.58	0.00E+00	0.00E+00	7.70E+01	5.76E+01
	8	154.34	4.39E+01	50.54			4.39E+01	5.05E+01
	9	209.76	4.47E+01	51.97			4.47E+01	5.20E+01
M	10	239.02	4.44E+02	57.55	1.43E+01	7.07E+00	4.30E+02	5.80E+01
m	11	242.09	8.17E+01	43.78			8.17E+01	4.38E+01
	12	269.63	7.08E+01	50.59	1.77E+00	6.25E+00	6.90E+01	5.10E+01
M	13	295.26	1.96E+02	39.53	9.61E+00	5.92E+00	1.87E+02	4.00E+01
m	14	300.16	3.87E+01	31.41			3.87E+01	3.14E+01
	15	338.74	9.82E+01	58.31			9.82E+01	5.83E+01
	16	352.06	2.89E+02	52.59	1.56E+01	5.52E+00	2.73E+02	5.29E+01
	17	387.80	2.81E+01	32.31			2.81E+01	3.23E+01
	18	463.59	5.33E+01	34.71			5.33E+01	3.47E+01
	19	511.05	1.20E+02	39.50	8.01E+01	5.53E+00	3.96E+01	3.99E+01
	20	518.57	2.50E+01	26.84			2.50E+01	2.68E+01
	21	526.39	3.36E+01	32.37			3.36E+01	3.24E+01
	22	583.44	1.47E+02	38.67	6.24E+00	3.96E+00	1.41E+02	3.89E+01
	23	590.99	1.98E+01	24.80			1.98E+01	2.48E+01
	24	609.37	1.91E+02	38.83	1.38E+01	3.84E+00	1.77E+02	3.90E+01
	25	727.41	4.80E+01	25.17			4.80E+01	2.52E+01
	26	795.31	2.49E+01	29.70			2.49E+01	2.97E+01
	27	861.55	3.92E+01	24.49			3.92E+01	2.45E+01
	28	881.57	4.14E+01	33.03			4.14E+01	3.30E+01
	29	911.90	1.20E+02	39.70	7.18E+00	2.77E+00	1.13E+02	3.98E+01
	30	969.51	5.99E+01	31.75			5.99E+01	3.17E+01
	31	1002.59	2.27E+01	27.16			2.27E+01	2.72E+01
	32	1120.64	3.82E+01	29.77	3.25E+00	2.68E+00	3.50E+01	2.99E+01
	33	1189.56	1.55E+01	20.21			1.55E+01	2.02E+01
	34	1205.78	7.33E+01	63.24			7.33E+01	6.32E+01
	35	1287.59	2.73E+01	27.55			2.73E+01	2.75E+01
	36	1461.23	6.85E+02	54.42	1.14E+01	2.53E+00	6.74E+02	5.45E+01
	37	1510.29	1.27E+01	12.45			1.27E+01	1.24E+01
	38	1558.95	6.50E+00	8.03			6.50E+00	8.03E+00
	39	1589.79	2.75E+01	21.01			2.75E+01	2.10E+01
	40	1729.00	1.77E+01	13.23			1.77E+01	1.32E+01
	41	1764.82	3.95E+01	15.51	3.50E+00	2.20E+00	3.60E+01	1.57E+01
	42	1848.13	1.08E+01	8.50			1.08E+01	8.50E+00
	43	1927.82	4.57E+00	6.63			4.57E+00	6.63E+00
	44	1941.65	8.00E+00	5.66			8.00E+00	5.66E+00
	45	2103.47	1.13E+01	10.68			1.13E+01	1.07E+01
	46	2120.37	7.00E+00	8.03			7.00E+00	8.03E+00
	47	2204.19	1.20E+01	6.93			1.20E+01	6.93E+00
	48	2557.94	5.43E+00	6.34			5.43E+00	6.34E+00
	49	2614.49	7.10E+01	16.85	8.08E+00	1.71E+00	6.29E+01	1.69E+01
	50	3517.56	6.00E+00	4.90			6.00E+00	4.90E+00

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 5:16:26PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	32.11	8.77E+01	80.04			8.77E+01	8.00E+01
	2	46.05	2.14E+02	73.95	7.29E+01	8.80E+00	1.41E+02	7.45E+01
	3	53.24	4.34E+01	51.90			4.34E+01	5.19E+01
	4	76.55	6.54E+02	126.01	2.65E+01	9.95E+00	6.27E+02	1.26E+02
M	5	88.14	1.62E+02	66.90	6.84E+00	1.23E+00	1.55E+02	6.69E+01
m	6	93.03	1.93E+02	67.73	6.54E+01	3.76E+00	1.28E+02	6.78E+01
	7	99.22	7.70E+01	57.58	0.00E+00	0.00E+00	7.70E+01	5.76E+01
	8	154.34	4.39E+01	50.54			4.39E+01	5.05E+01
	9	209.76	4.47E+01	51.97			4.47E+01	5.20E+01
M	10	239.02	4.44E+02	57.55	1.43E+01	7.07E+00	4.30E+02	5.80E+01
m	11	242.09	8.17E+01	43.78			8.17E+01	4.38E+01
	12	269.63	7.08E+01	50.59	1.77E+00	6.25E+00	6.90E+01	5.10E+01
M	13	295.26	1.96E+02	39.53	9.61E+00	5.92E+00	1.87E+02	4.00E+01
m	14	300.16	3.87E+01	31.41			3.87E+01	3.14E+01
	15	338.74	9.82E+01	58.31			9.82E+01	5.83E+01
	16	352.06	2.89E+02	52.59	1.56E+01	5.52E+00	2.73E+02	5.29E+01
	17	387.80	2.81E+01	32.31			2.81E+01	3.23E+01
	18	463.59	5.33E+01	34.71			5.33E+01	3.47E+01
	19	511.05	1.20E+02	39.50	8.01E+01	5.53E+00	3.96E+01	3.99E+01
	20	518.57	2.50E+01	26.84			2.50E+01	2.68E+01
	21	526.39	3.36E+01	32.37			3.36E+01	3.24E+01
	22	583.44	1.47E+02	38.67	6.24E+00	3.96E+00	1.41E+02	3.89E+01
	23	590.99	1.98E+01	24.80			1.98E+01	2.48E+01
	24	609.37	1.91E+02	38.83	1.38E+01	3.84E+00	1.77E+02	3.90E+01
	25	727.41	4.80E+01	25.17			4.80E+01	2.52E+01
	26	795.31	2.49E+01	29.70			2.49E+01	2.97E+01
	27	861.55	3.92E+01	24.49			3.92E+01	2.45E+01
	28	881.57	4.14E+01	33.03			4.14E+01	3.30E+01
	29	911.90	1.20E+02	39.70	7.18E+00	2.77E+00	1.13E+02	3.98E+01
	30	969.51	5.99E+01	31.75			5.99E+01	3.17E+01
	31	1002.59	2.27E+01	27.16			2.27E+01	2.72E+01
	32	1120.64	3.82E+01	29.77	3.25E+00	2.68E+00	3.50E+01	2.99E+01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
33	1189.56	1.55E+01	20.21			1.55E+01	2.02E+01
34	1205.78	7.33E+01	63.24			7.33E+01	6.32E+01
35	1287.59	2.73E+01	27.55			2.73E+01	2.75E+01
36	1461.23	6.85E+02	54.42	1.14E+01	2.53E+00	6.74E+02	5.45E+01
37	1510.29	1.27E+01	12.45			1.27E+01	1.24E+01
38	1558.95	6.50E+00	8.03			6.50E+00	8.03E+00
39	1589.79	2.75E+01	21.01			2.75E+01	2.10E+01
40	1729.00	1.77E+01	13.23			1.77E+01	1.32E+01
41	1764.82	3.95E+01	15.51	3.50E+00	2.20E+00	3.60E+01	1.57E+01
42	1848.13	1.08E+01	8.50			1.08E+01	8.50E+00
43	1927.82	4.57E+00	6.63			4.57E+00	6.63E+00
44	1941.65	8.00E+00	5.66			8.00E+00	5.66E+00
45	2103.47	1.13E+01	10.68			1.13E+01	1.07E+01
46	2120.37	7.00E+00	8.03			7.00E+00	8.03E+00
47	2204.19	1.20E+01	6.93			1.20E+01	6.93E+00
48	2557.94	5.43E+00	6.34			5.43E+00	6.34E+00
49	2614.49	7.10E+01	16.85	8.08E+00	1.71E+00	6.29E+01	1.69E+01
50	3517.56	6.00E+00	4.90			6.00E+00	4.90E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.972	1460.81	*	10.67	1.56E+01	2.04E+00
GA-67	0.697	93.31	*	35.70	4.74E+01	1.79E+02
		208.95	*	2.24	3.87E+02	1.45E+03
		300.22	*	16.00	5.98E+01	2.28E+02
CD-109	0.998	88.03	*	3.72	1.76E+00	8.15E-01
SN-126	0.950	87.57	*	37.00	1.70E-01	7.80E-02
TL-208	0.884	583.14	*	30.22	5.62E-01	1.62E-01
		860.37		4.48		
		2614.66	*	35.85	4.99E-01	1.40E-01
PB-210	0.968	46.50	*	4.25	2.94E+00	1.60E+00
BI-212	0.758	727.17	*	11.80	5.79E-01	3.08E-01
		1620.62		2.75		
PB-212	0.978	238.63	*	44.60	6.21E-01	1.01E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-212	0.978	300.09	*	3.41	8.55E-01	6.98E-01
BI-214	0.993	609.31	*	46.30	4.75E-01	1.12E-01
		1120.29	*	15.10	4.68E-01	4.02E-01
		1764.49	*	15.80	6.27E-01	2.78E-01
		2204.22	*	4.98	7.06E-01	4.11E-01
PB-214	0.998	295.21	*	19.19	7.25E-01	1.70E-01
		351.92	*	37.19	6.16E-01	1.31E-01
AC-228	0.934	338.32	*	11.40	7.04E-01	4.23E-01
		911.07	*	27.70	6.98E-01	2.53E-01
		969.11	*	16.60	6.48E-01	3.48E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:16:26PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.11	2.43611E-02	45.63		
	3	53.24	1.20667E-02	59.74		
	4	76.55	1.74190E-01	10.08		
	7	99.22	2.13786E-02	37.41	D-Esc	
	8	154.34	1.21938E-02	57.56		
m	11	242.09	2.27003E-02	26.78		
	12	269.63	1.91775E-02	36.92		
	17	387.80	7.80702E-03	57.48	Sum	
	18	463.59	1.48019E-02	32.57		
	19	511.05	1.09998E-02	50.36		
	20	518.57	6.95499E-03	53.59		
	21	526.39	9.33333E-03	48.17		
	23	590.99	5.48611E-03	62.78	Sum	
	26	795.31	6.91432E-03	59.66	Tol.	CS-134
	27	861.55	1.08765E-02	31.27		
	28	881.57	1.14985E-02	39.90		
	31	1002.59	6.30137E-03	59.86		
	33	1189.56	4.30556E-03	65.20	Tol.	TA-182
	34	1205.78	2.03539E-02	43.15		

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
35	1287.59	7.58598E-03	50.44		
37	1510.29	3.52778E-03	49.02		
38	1558.95	1.80556E-03	61.78		
39	1589.79	7.63889E-03	38.20		
40	1729.00	4.90556E-03	37.45	Sum	
42	1848.13	3.00214E-03	39.32	Sum	
43	1927.82	1.26984E-03	72.55		
44	1941.65	2.22222E-03	35.36		
45	2103.47	3.12500E-03	47.45	S-Esc	
46	2120.37	1.94444E-03	57.37		
48	2557.94	1.50794E-03	58.43		
50	3517.56	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.56E+01	2.04E+00
GA-67	0.69	93.31	*	35.70	4.74E+01	1.79E+02
		208.95	*	2.24	3.87E+02	1.45E+03
		300.22	*	16.00	5.98E+01	2.28E+02
CD-109	0.99	88.03	*	3.72	1.76E+00	8.15E-01
SN-126	0.95	87.57	*	37.00	1.70E-01	7.80E-02
TL-208	0.88	583.14	*	30.22	5.62E-01	1.62E-01
		860.37		4.48		
		2614.66	*	35.85	4.99E-01	1.40E-01
PB-210	0.96	46.50	*	4.25	2.94E+00	1.60E+00
BI-212	0.75	727.17	*	11.80	5.79E-01	3.08E-01
		1620.62		2.75		
PB-212	0.97	238.63	*	44.60	6.21E-01	1.01E-01
		300.09	*	3.41	8.55E-01	6.98E-01
BI-214	0.99	609.31	*	46.30	4.75E-01	1.12E-01
		1120.29	*	15.10	4.68E-01	4.02E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.99	1764.49	*	15.80	6.27E-01	2.78E-01
		2204.22	*	4.98	7.06E-01	4.11E-01
PB-214	0.99	295.21	*	19.19	7.25E-01	1.70E-01
		351.92	*	37.19	6.16E-01	1.31E-01
AC-228	0.93	338.32	*	11.40	7.04E-01	4.23E-01
		911.07	*	27.70	6.98E-01	2.53E-01
		969.11	*	16.60	6.48E-01	3.48E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.972	1.56E+01	2.04E+00	
	GA-67	0.697	4.15E+01	1.49E+02	
?	CD-109	0.998	1.76E+00	8.15E-01	
?	SN-126	0.950	1.70E-01	7.80E-02	
	TL-208	0.884	5.26E-01	1.06E-01	
	PB-210	0.968	2.94E+00	1.60E+00	
	BI-212	0.758	5.79E-01	3.08E-01	
	PB-212	0.978	6.14E-01	9.98E-02	
	BI-214	0.993	5.07E-01	9.80E-02	
	PB-214	0.998	6.57E-01	1.04E-01	
	AC-228	0.934	6.85E-01	1.84E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:16:26PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	32.11	2.43611E-02	45.63		
	3	53.24	1.20667E-02	59.74		
	4	76.55	1.74190E-01	10.08		
	7	99.22	2.13786E-02	37.41	D-Esc	
	8	154.34	1.21938E-02	57.56		
m	11	242.09	2.27003E-02	26.78		
	12	269.63	1.91775E-02	36.92		
	17	387.80	7.80702E-03	57.48	Sum	
	18	463.59	1.48019E-02	32.57		
	19	511.05	1.09998E-02	50.36		
	20	518.57	6.95499E-03	53.59		
	21	526.39	9.33333E-03	48.17		
	23	590.99	5.48611E-03	62.78	Sum	
	26	795.31	6.91432E-03	59.66	Tol.	CS-134
	27	861.55	1.08765E-02	31.27		
	28	881.57	1.14985E-02	39.90		
	31	1002.59	6.30137E-03	59.86		
	33	1189.56	4.30556E-03	65.20	Tol.	TA-182
	34	1205.78	2.03539E-02	43.15		
	35	1287.59	7.58598E-03	50.44		
	37	1510.29	3.52778E-03	49.02		
	38	1558.95	1.80556E-03	61.78		
	39	1589.79	7.63889E-03	38.20		
	40	1729.00	4.90556E-03	37.45	Sum	
	42	1848.13	3.00214E-03	39.32	Sum	
	43	1927.82	1.26984E-03	72.55		
	44	1941.65	2.22222E-03	35.36		
	45	2103.47	3.12500E-03	47.45	S-Esc	
	46	2120.37	1.94444E-03	57.37		
	48	2557.94	1.50794E-03	58.43		
	50	3517.56	1.66667E-03	40.82		

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-1.68E-01	4.86E-01	4.86E-01
+	NA-22	1274.54		99.94	4.21E-02	7.15E-02	7.15E-02
+	NA-24	1368.53		99.99	-1.90E+11	2.74E+11	7.75E+11
		2754.09		99.86	-1.24E+11		2.74E+11
+	AL-26	1808.65		99.76	-6.93E-03	5.06E-02	5.06E-02
+	K-40	1460.81	*	10.67	1.56E+01	6.90E-01	6.90E-01
+ @	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	4.38E-03	3.55E-02	3.55E-02
		78.34		96.00	1.35E-01		5.05E-02
+	SC-46	889.25		99.98	-1.19E-02	6.26E-02	6.26E-02
		1120.51		99.99	9.76E-02		1.14E-01
+	V-48	983.52		99.98	3.26E-02	1.82E-01	1.82E-01
		1312.10		97.50	4.47E-02		2.15E-01
+	CR-51	320.08		9.83	-3.48E-01	7.68E-01	7.68E-01
+	MN-54	834.83		99.97	-5.26E-03	6.12E-02	6.12E-02
+	CO-56	846.75		99.96	-1.67E-02	7.41E-02	7.41E-02
		1037.75		14.03	-2.06E-01		5.06E-01
		1238.25		67.00	4.81E-02		1.73E-01
		1771.40		15.51	-5.65E-02		3.19E-01
		2598.48		16.90	-7.14E-03		1.58E-01
+	CO-57	122.06		85.51	-1.11E-02	4.31E-02	4.31E-02
		136.48		10.60	-3.27E-02		3.42E-01
+	CO-58	810.76		99.40	7.09E-03	6.92E-02	6.92E-02
+	FE-59	1099.22		56.50	-5.37E-03	1.60E-01	1.60E-01
		1291.56		43.20	-2.26E-02		2.03E-01
+	CO-60	1173.22		100.00	3.13E-02	5.60E-02	7.39E-02
		1332.49		100.00	9.10E-03		5.60E-02
+	ZN-65	1115.52		50.75	3.58E-02	1.50E-01	1.50E-01
+	GA-67	93.31	*	35.70	4.74E+01	7.14E+01	7.14E+01
		208.95	*	2.24	3.87E+02		7.39E+02
		300.22	*	16.00	5.98E+01		1.38E+02
+	SE-75	121.11		16.70	4.24E-02	6.70E-02	2.46E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	-3.00E-02	6.70E-02	6.70E-02
		264.65		59.80	-1.22E-02		6.94E-02
		279.53		25.20	-1.89E-01		1.72E-01
		400.65		11.40	-2.92E-02		3.98E-01
+	RB-82	776.52		13.00	6.17E-02	7.59E-01	7.59E-01
+	RB-83	520.41		46.00	2.09E-02	1.10E-01	1.10E-01
		529.64		30.30	-3.54E-02		1.77E-01
		552.65		16.40	-6.53E-02		2.88E-01
+	KR-85	513.99		0.43	-1.08E+01	1.16E+01	1.16E+01
+	SR-85	513.99		99.27	-6.31E-02	6.73E-02	6.73E-02
+	Y-88	898.02		93.40	-2.06E-02	5.61E-02	6.85E-02
		1836.01		99.38	2.24E-03		5.61E-02
+	NB-93M	16.57		9.43	-1.13E+04	4.20E+03	4.20E+03
+	NB-94	702.63		100.00	-1.00E-02	4.71E-02	5.29E-02
		871.10		100.00	2.25E-02		4.71E-02
+	NB-95	765.79		99.81	1.24E-01	1.16E-01	1.16E-01
+	NB-95M	235.69		25.00	-2.85E+02	3.85E+01	3.85E+01
+	ZR-95	724.18		43.70	2.18E-02	1.25E-01	1.91E-01
		756.72		55.30	3.12E-02		1.25E-01
+	MO-99	181.06		6.20	3.58E+02	3.89E+02	6.04E+02
		739.58		12.80	7.46E+01		3.89E+02
		778.00		4.50	-3.81E+02		1.03E+03
+	RU-103	497.08		89.00	-2.46E-02	6.16E-02	6.16E-02
+	RU-106	621.84		9.80	2.06E-01	5.53E-01	5.53E-01
+	AG-108M	433.93		89.90	1.41E-02	4.46E-02	4.46E-02
		614.37		90.40	2.68E-03		5.48E-02
		722.95		90.50	3.28E-03		6.12E-02
+	CD-109	88.03	*	3.72	1.76E+00	2.18E+00	2.18E+00
+	AG-110M	657.75		93.14	-9.78E-03	5.91E-02	5.91E-02
		677.61		10.53	1.48E-01		5.51E-01
		706.67		16.46	9.12E-03		3.64E-01
		763.93		21.98	-1.84E-01		2.90E-01
		884.67		71.63	-3.50E-04		8.33E-02
		1384.27		23.94	-2.67E-02		2.08E-01
+	CD-113M	263.70		0.02	8.02E+00	1.58E+02	1.58E+02
+	SN-113	255.12		1.93	-4.37E-01	7.23E-02	2.49E+00
		391.69		64.90	2.79E-02		7.23E-02
+	TE123M	159.00		84.10	-8.55E-03	4.84E-02	4.84E-02
+	SB-124	602.71		97.87	-1.38E-02	6.78E-02	6.78E-02
		645.85		7.26	9.14E-02		8.63E-01
		722.78		11.10	3.66E-02		6.82E-01
		1691.02		49.00	1.61E-02		1.36E-01
+	I-125	35.49		6.49	-1.73E+00	3.77E+00	3.77E+00
+	SB-125	176.33		6.89	-4.46E-01	1.40E-01	5.16E-01
		427.89		29.33	-1.61E-02		1.40E-01
		463.38		10.35	3.59E-01		4.69E-01
		600.56		17.80	1.10E-02		2.85E-01
		635.90		11.32	8.66E-02		5.35E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	-2.73E-04	2.24E-01	2.24E-01
		666.33		99.60	-1.63E-01		2.24E-01
		695.00		99.60	5.69E-02		2.51E-01
		720.50		53.80	-2.63E-02		4.41E-01
+	SN-126	87.57	*	37.00	1.70E-01	2.10E-01	2.10E-01
+	SB-127	473.00		25.00	-2.08E-01	1.85E+01	1.85E+01
		685.20		35.70	3.84E+00		1.98E+01
		783.80		14.70	4.00E+01		5.67E+01
+	I-129	29.78		57.00	-7.53E-01	8.78E-01	8.78E-01
		33.60		13.20	1.43E-01		1.91E+00
		39.58		7.52	8.50E-01		1.56E+00
+	I-131	284.30		6.05	1.72E+00	5.03E-01	6.61E+00
		364.48		81.20	1.34E-01		5.03E-01
		636.97		7.26	2.18E+00		8.51E+00
		722.89		1.80	1.73E+00		3.22E+01
+	TE-132	49.72		13.10	-7.93E+01	1.55E+01	1.10E+02
		228.16		88.00	-2.34E-01		1.55E+01
+	BA-133	81.00		33.00	2.76E-02	6.42E-02	9.39E-02
		302.84		17.80	-4.16E-02		2.10E-01
		356.01		60.00	-8.92E-03		6.42E-02
+	I-133	529.87		86.30	-7.58E+07	1.38E+08	1.38E+08
+	XE-133	81.00		38.00	8.74E-01	2.98E+00	2.98E+00
+	CS-134	563.23		8.38	5.31E-02	5.54E-02	4.91E-01
		569.32		15.43	1.52E-02		2.63E-01
		604.70		97.60	-6.76E-03		5.54E-02
		795.84		85.40	6.11E-02		7.54E-02
		801.93		8.73	3.56E-01		6.90E-01
+	CS-135	268.24		16.00	1.33E-02	2.57E-01	2.57E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	-7.28E-01	2.19E-01	1.98E+00
		163.89		4.61	-4.60E-01		3.33E+00
		176.55		13.56	-3.02E-01		1.09E+00
		273.65		12.66	-4.28E-01		1.21E+00
		340.57		48.50	-3.20E-01		3.95E-01
		818.50		99.70	-1.29E-02		2.19E-01
		1048.07		79.60	-5.41E-02		3.28E-01
		1235.34		19.70	2.98E-01		1.86E+00
+	CS-137	661.65		85.12	3.52E-02	6.48E-02	6.48E-02
+	LA-138	788.74		34.00	4.42E-02	7.87E-02	1.66E-01
		1435.80		66.00	1.35E-02		7.87E-02
+	CE-139	165.85		80.35	-3.06E-02	4.96E-02	4.96E-02
+	BA-140	162.64		6.70	2.90E+00	6.37E-01	2.47E+00
		304.84		4.50	4.63E-01		3.52E+00
		423.70		3.20	2.76E+00		5.96E+00
		437.55		2.00	-8.67E-01		8.84E+00
		537.32		25.00	-5.15E-01		6.37E-01
+	LA-140	328.77		20.50	9.10E-01	2.93E-01	9.04E-01

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03	45.50	-1.76E-01	2.93E-01	3.80E-01
		815.85	23.50	-4.94E-01		9.02E-01
		1596.49	95.49	-4.26E-02		2.93E-01
+	CE-141	145.44	48.40	8.50E-02	1.38E-01	1.38E-01
+	CE-143	57.36	11.80	7.79E+04	1.15E+05	3.03E+05
		293.26	42.00	-7.02E+04		1.15E+05
		664.55	5.20	3.19E+05		9.72E+05
+	CE-144	133.54	10.80	1.71E-01	3.45E-01	3.45E-01
+	PM-144	476.78	42.00	-3.07E-02	5.32E-02	8.91E-02
		618.01	98.60	-1.31E-03		5.32E-02
		696.49	99.49	1.25E-02		5.73E-02
+	PM-145	36.85	21.70	-6.83E-02	3.60E-01	7.02E-01
		37.36	39.70	-3.51E-02		3.60E-01
		42.30	15.10	-8.71E-02		5.67E-01
		72.40	2.31	8.07E-03		1.50E+00
+	PM-146	453.90	39.94	5.06E-02	1.25E-01	1.25E-01
		735.90	14.01	5.00E-02		3.75E-01
		747.13	13.10	9.04E-02		3.99E-01
+	ND-147	91.11	28.90	-1.35E+00	8.21E-01	8.21E-01
		531.02	13.10	3.67E-01		1.75E+00
+	PM-149	285.90	3.10	-3.18E+03	6.04E+03	6.04E+03
+	EU-152	121.78	20.50	-4.32E-02	1.68E-01	1.68E-01
		244.69	5.40	-8.34E-01		7.45E-01
		344.27	19.13	-3.52E-02		1.90E-01
		778.89	9.20	-9.85E-02		5.39E-01
		964.01	10.40	1.69E-01		6.84E-01
		1085.78	7.22	2.76E-01		8.38E-01
		1112.02	9.60	1.67E-01		7.26E-01
		1407.95	14.94	7.17E-03		3.62E-01
+	GD-153	97.43	31.30	1.98E-02	1.19E-01	1.19E-01
		103.18	22.20	-6.51E-02		1.63E-01
+	EU-154	123.07	40.50	5.03E-02	8.55E-02	8.55E-02
		723.30	19.70	1.52E-02		2.83E-01
		873.19	11.50	6.49E-02		3.75E-01
		996.32	10.30	-1.27E-02		5.83E-01
		1004.76	17.90	-2.10E-02		4.06E-01
		1274.45	35.50	1.17E-01		1.99E-01
+	EU-155	86.50	30.90	-3.04E-03	1.39E-01	1.39E-01
		105.30	20.70	1.08E-02		1.68E-01
+	EU-156	811.77	10.40	1.06E-01	1.70E+00	1.70E+00
		1153.47	7.20	2.99E-01		3.34E+00
		1230.71	8.90	1.39E-01		3.02E+00
+	HO-166M	184.41	72.60	2.80E-02	6.30E-02	6.30E-02
		280.45	29.60	-1.38E-01		1.26E-01
		410.94	11.10	-4.55E-02		3.66E-01
		711.69	54.10	-2.29E-02		9.95E-02
+	TM-171	66.72	0.14	7.60E+00	2.48E+01	2.48E+01
+	HF-172	81.75	4.52	-3.03E-01	3.02E-01	6.85E-01
		125.81	11.30	-3.31E-01		3.02E-01

Analysis Report for 1508002-05

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	-2.15E+00	1.71E+00	3.10E+00
		810.06		16.63	5.44E-01		5.31E+00
		912.12		15.25	2.10E+01		1.14E+01
		1093.66		62.50	7.40E-01		1.71E+00
+	LU-173	100.72		5.24	6.62E-02	1.97E-01	6.83E-01
		272.11		21.20	8.22E-02		1.97E-01
+	HF-175	343.40		84.00	-4.32E-03	5.93E-02	5.93E-02
+	LU-176	88.34		13.30	2.80E-01	3.94E-02	3.25E-01
		201.83		86.00	-4.67E-03		4.56E-02
		306.78		94.00	5.27E-03		3.94E-02
+	TA-182	67.75		41.20	1.19E-02	9.60E-02	9.60E-02
		1121.30		34.90	2.51E-01		3.08E-01
		1189.05		16.23	6.35E-02		5.32E-01
		1221.41		26.98	8.32E-02		3.30E-01
		1231.02		11.44	-1.07E-01		7.98E-01
+	IR-192	308.46		29.68	3.04E-02	1.02E-01	1.65E-01
		468.07		48.10	1.48E-02		1.02E-01
+	HG-203	279.19		77.30	3.40E-02	7.72E-02	7.72E-02
+	BI-207	569.67		97.72	2.34E-03	4.06E-02	4.06E-02
		1063.62		74.90	-3.50E-05		8.03E-02
+	TL-208	583.14	*	30.22	5.62E-01	9.89E-02	2.12E-01
		860.37		4.48	9.54E-01		1.42E+00
		2614.66	*	35.85	4.99E-01		9.89E-02
+	BI-210M	262.00		45.00	2.24E-02	8.50E-02	8.50E-02
		300.00		23.00	2.42E-01		1.90E-01
+	PB-210	46.50	*	4.25	2.94E+00	2.48E+00	2.48E+00
+	PB-211	404.84		2.90	2.63E-01	1.38E+00	1.38E+00
		831.96		2.90	-8.02E-01		1.91E+00
+	BI-212	727.17	*	11.80	5.79E-01	4.50E-01	4.50E-01
		1620.62		2.75	-3.72E-02		1.59E+00
+	PB-212	238.63	*	44.60	6.21E-01	1.68E-01	1.68E-01
		300.09	*	3.41	8.55E-01		1.97E+00
+	BI-214	609.31	*	46.30	4.75E-01	1.33E-01	1.33E-01
		1120.29	*	15.10	4.68E-01		6.40E-01
		1764.49	*	15.80	6.27E-01		3.36E-01
		2204.22	*	4.98	7.06E-01		1.59E-01
+	PB-214	295.21	*	19.19	7.25E-01	1.59E-01	3.49E-01
		351.92	*	37.19	6.16E-01		1.59E-01
+	RN-219	401.80		6.50	-2.93E-01	5.77E-01	5.77E-01
+	RA-223	323.87		3.88	3.25E-01	1.05E+00	1.05E+00
+	RA-224	240.98		3.95	5.93E+00	1.93E+00	1.93E+00
+	RA-225	40.00		31.00	7.09E-01	1.30E+00	1.30E+00
+	RA-226	186.21		3.28	1.68E+00	1.42E+00	1.42E+00
+	TH-227	50.10		8.40	-3.69E-01	4.46E-01	5.11E-01
		236.00		11.50	-3.31E+00		4.46E-01
		256.20		6.30	9.97E-02		6.51E-01
+	AC-228	338.32	*	11.40	7.04E-01	3.58E-01	6.66E-01
		911.07	*	27.70	6.98E-01		3.58E-01

00407

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	6.48E-01	3.58E-01	5.22E-01
+	TH-230	48.44		16.90	-2.46E-01	2.95E-01	2.95E-01
		62.85		4.60	9.10E-01		8.95E-01
		67.67		0.37	1.12E+00		9.07E+00
+	PA-231	283.67		1.60	6.18E-01	1.62E+00	2.38E+00
		302.67		2.30	-3.20E-01		1.62E+00
+	TH-231	25.64		14.70	2.90E+00	4.79E-01	1.13E+01
		84.21		6.40	1.72E-01		4.79E-01
+	PA-233	311.98		38.60	6.45E-02	2.04E-01	2.04E-01
+	PA-234	131.20		20.40	5.72E-02	1.77E-01	1.77E-01
		733.99		8.80	-1.86E-02		6.01E-01
		946.00		12.00	-5.88E-02		4.87E-01
+	PA-234M	1001.03		0.92	0.00E+00	7.52E+00	7.52E+00
+	TH-234	63.29		3.80	1.09E+00	1.08E+00	1.08E+00
+	U-235	143.76		10.50	9.39E-02	3.54E-01	3.54E-01
		163.35		4.70	9.46E-01		8.07E-01
		205.31		4.70	1.84E-01		8.37E-01
+	NP-237	86.50		12.60	-7.37E-03	3.37E-01	3.37E-01
+	NP-239	106.10		22.70	3.43E+02	4.72E+02	4.72E+02
		228.18		10.70	-1.78E+01		1.18E+03
		277.60		14.10	1.62E+02		8.60E+02
+	AM-241	59.54		35.90	-3.21E-02	1.04E-01	1.04E-01
+	AM-243	74.67		66.00	-1.05E-01	6.87E-02	6.87E-02
+	CM-243	209.75		3.29	8.86E-01	2.85E-01	1.25E+00
		228.14		10.60	-5.91E-03		3.91E-01
		277.60		14.00	5.36E-02		2.85E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	4.86E-01	4.86E-01	-1.68E-01	2.24E-01
	NA-22	1274.54		99.94	7.15E-02	7.15E-02	4.21E-02	3.27E-02
	NA-24	1368.53		99.99	7.75E+11	2.74E+11	-1.90E+11	3.45E+11
		2754.09		99.86	2.74E+11		-1.24E+11	8.65E+10
	AL-26	1808.65		99.76	5.06E-02	5.06E-02	-6.93E-03	2.15E-02
+	K-40	1460.81	*	10.67	6.90E-01	6.90E-01	1.56E+01	3.14E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	3.55E-02	3.55E-02	4.38E-03	1.71E-02
		78.34		96.00	5.05E-02		1.35E-01	2.47E-02
	SC-46	889.25		99.98	6.26E-02	6.26E-02	-1.19E-02	2.84E-02
		1120.51		99.99	1.14E-01		9.76E-02	5.36E-02
	V-48	983.52		99.98	1.82E-01	1.82E-01	3.26E-02	8.28E-02
		1312.10		97.50	2.15E-01		4.47E-02	9.74E-02
	CR-51	320.08		9.83	7.68E-01	7.68E-01	-3.48E-01	3.62E-01
	MN-54	834.83		99.97	6.12E-02	6.12E-02	-5.26E-03	2.83E-02
	CO-56	846.75		99.96	7.41E-02	7.41E-02	-1.67E-02	3.43E-02
		1037.75		14.03	5.06E-01		-2.06E-01	2.30E-01
		1238.25		67.00	1.73E-01		4.81E-02	8.07E-02
		1771.40		15.51	3.19E-01		-5.65E-02	1.29E-01
		2598.48		16.90	1.58E-01		-7.14E-03	4.99E-02
	CO-57	122.06		85.51	4.31E-02	4.31E-02	-1.11E-02	2.08E-02
		136.48		10.60	3.42E-01		-3.27E-02	1.65E-01
	CO-58	810.76		99.40	6.92E-02	6.92E-02	7.09E-03	3.18E-02
	FE-59	1099.22		56.50	1.60E-01	1.60E-01	-5.37E-03	7.29E-02
		1291.56		43.20	2.03E-01		-2.26E-02	9.09E-02
	CO-60	1173.22		100.00	7.39E-02	5.60E-02	3.13E-02	3.41E-02
		1332.49		100.00	5.60E-02		9.10E-03	2.49E-02
	ZN-65	1115.52		50.75	1.50E-01	1.50E-01	3.58E-02	6.90E-02
+	GA-67	93.31	*	35.70	7.14E+01	7.14E+01	4.74E+01	3.52E+01
		208.95	*	2.24	7.39E+02		3.87E+02	3.58E+02
		300.22	*	16.00	1.38E+02		5.98E+01	6.67E+01
	SE-75	121.11		16.70	2.46E-01	6.70E-02	4.24E-02	1.19E-01
		136.00		59.20	6.70E-02		-3.00E-02	3.23E-02
		264.65		59.80	6.94E-02		-1.22E-02	3.29E-02
		279.53		25.20	1.72E-01		-1.89E-01	8.17E-02
		400.65		11.40	3.98E-01		-2.92E-02	1.86E-01
	RB-82	776.52		13.00	7.59E-01	7.59E-01	6.17E-02	3.47E-01
	RB-83	520.41		46.00	1.10E-01	1.10E-01	2.09E-02	5.11E-02
		529.64		30.30	1.77E-01		-3.54E-02	8.22E-02
		552.65		16.40	2.88E-01		-6.53E-02	1.32E-01
	KR-85	513.99		0.43	1.16E+01	1.16E+01	-1.08E+01	5.44E+00
	SR-85	513.99		99.27	6.73E-02	6.73E-02	-6.31E-02	3.17E-02
	Y-88	898.02		93.40	6.85E-02	5.61E-02	-2.06E-02	3.13E-02
		1836.01		99.38	5.61E-02		2.24E-03	2.35E-02
	NB-93M	16.57		9.43	4.20E+03	4.20E+03	-1.13E+04	2.04E+03
	NB-94	702.63		100.00	5.29E-02	4.71E-02	-1.00E-02	2.46E-02
		871.10		100.00	4.71E-02		2.25E-02	2.13E-02
	NB-95	765.79		99.81	1.16E-01	1.16E-01	1.24E-01	5.46E-02
	NB-95M	235.69		25.00	3.85E+01	3.85E+01	-2.85E+02	1.86E+01
	ZR-95	724.18		43.70	1.91E-01	1.25E-01	2.18E-02	8.96E-02
		756.72		55.30	1.25E-01		3.12E-02	5.75E-02

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Analysis Report for 1508002-05

FEEBRIS1D-8 090-091

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	181.06		6.20	6.04E+02	3.89E+02	3.58E+02	2.91E+02
		739.58		12.80	3.89E+02		7.46E+01	1.80E+02
		778.00		4.50	1.03E+03		-3.81E+02	4.72E+02
	RU-103	497.08		89.00	6.16E-02	6.16E-02	-2.46E-02	2.82E-02
	RU-106	621.84		9.80	5.53E-01	5.53E-01	2.06E-01	2.58E-01
	AG-108M	433.93		89.90	4.46E-02	4.46E-02	1.41E-02	2.09E-02
		614.37		90.40	5.48E-02		2.68E-03	2.55E-02
		722.95		90.50	6.12E-02		3.28E-03	2.85E-02
+	CD-109	88.03	*	3.72	2.18E+00	2.18E+00	1.76E+00	1.07E+00
	AG-110M	657.75		93.14	5.91E-02	5.91E-02	-9.78E-03	2.75E-02
		677.61		10.53	5.51E-01		1.48E-01	2.57E-01
		706.67		16.46	3.64E-01		9.12E-03	1.70E-01
		763.93		21.98	2.90E-01		-1.84E-01	1.35E-01
		884.67		71.63	8.33E-02		-3.50E-04	3.83E-02
		1384.27		23.94	2.08E-01		-2.67E-02	8.97E-02
	CD-113M	263.70		0.02	1.58E+02	1.58E+02	8.02E+00	7.47E+01
	SN-113	255.12		1.93	2.49E+00	7.23E-02	-4.37E-01	1.19E+00
		391.69		64.90	7.23E-02		2.79E-02	3.39E-02
	TE123M	159.00		84.10	4.84E-02	4.84E-02	-8.55E-03	2.32E-02
	SB-124	602.71		97.87	6.78E-02	6.78E-02	-1.38E-02	3.16E-02
		645.85		7.26	8.63E-01		9.14E-02	3.99E-01
		722.78		11.10	6.82E-01		3.66E-02	3.17E-01
		1691.02		49.00	1.36E-01		1.61E-02	5.80E-02
	I-125	35.49		6.49	3.77E+00	3.77E+00	-1.73E+00	1.82E+00
	SB-125	176.33		6.89	5.16E-01	1.40E-01	-4.46E-01	2.48E-01
		427.89		29.33	1.40E-01		-1.61E-02	6.54E-02
		463.38		10.35	4.69E-01		3.59E-01	2.21E-01
		600.56		17.80	2.85E-01		1.10E-02	1.33E-01
		635.90		11.32	5.35E-01		8.66E-02	2.52E-01
	SB-126	414.70		83.30	2.24E-01	2.24E-01	-2.73E-04	1.05E-01
		666.33		99.60	2.24E-01		-1.63E-01	1.04E-01
		695.00		99.60	2.51E-01		5.69E-02	1.17E-01
		720.50		53.80	4.41E-01		-2.63E-02	2.04E-01
+	SN-126	87.57	*	37.00	2.10E-01	2.10E-01	1.70E-01	1.04E-01
	SB-127	473.00		25.00	1.85E+01	1.85E+01	-2.08E-01	8.51E+00
		685.20		35.70	1.98E+01		3.84E+00	9.20E+00
		783.80		14.70	5.67E+01		4.00E+01	2.65E+01
	I-129	29.78		57.00	8.78E-01	8.78E-01	-7.53E-01	4.24E-01
		33.60		13.20	1.91E+00		1.43E-01	9.21E-01
		39.58		7.52	1.56E+00		8.50E-01	7.55E-01
	I-131	284.30		6.05	6.61E+00	5.03E-01	1.72E+00	3.14E+00
		364.48		81.20	5.03E-01		1.34E-01	2.37E-01
		636.97		7.26	8.51E+00		2.18E+00	4.00E+00
		722.89		1.80	3.22E+01		1.73E+00	1.50E+01
	TE-132	49.72		13.10	1.10E+02	1.55E+01	-7.93E+01	5.25E+01
		228.16		88.00	1.55E+01		-2.34E-01	7.43E+00
	BA-133	81.00		33.00	9.39E-02	6.42E-02	2.76E-02	4.52E-02
		302.84		17.80	2.10E-01		-4.16E-02	9.95E-02
		356.01		60.00	6.42E-02		-8.92E-03	3.02E-02
	I-133	529.87		86.30	1.38E+08	1.38E+08	-7.58E+07	6.38E+07
	XE-133	81.00		38.00	2.98E+00	2.98E+00	8.74E-01	1.44E+00
	CS-134	563.23		8.38	4.91E-01	5.54E-02	5.31E-02	2.26E-01
		569.32		15.43	2.63E-01		1.52E-02	1.21E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-134	604.70	97.60	5.54E-02	5.54E-02	-6.76E-03	2.60E-02
	795.84	85.40	7.54E-02		6.11E-02	3.52E-02
	801.93	8.73	6.90E-01		3.56E-01	3.20E-01
CS-135	268.24	16.00	2.57E-01	2.57E-01	1.33E-02	1.23E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	1.98E+00	2.19E-01	-7.28E-01	9.55E-01
	163.89	4.61	3.33E+00		-4.60E-01	1.60E+00
	176.55	13.56	1.09E+00		-3.02E-01	5.22E-01
	273.65	12.66	1.21E+00		-4.28E-01	5.75E-01
	340.57	48.50	3.95E-01		-3.20E-01	1.88E-01
	818.50	99.70	2.19E-01		-1.29E-02	1.01E-01
	1048.07	79.60	3.28E-01		-5.41E-02	1.50E-01
	1235.34	19.70	1.86E+00		2.98E-01	8.66E-01
CS-137	661.65	85.12	6.48E-02	6.48E-02	3.52E-02	3.03E-02
LA-138	788.74	34.00	1.66E-01	7.87E-02	4.42E-02	7.71E-02
	1435.80	66.00	7.87E-02		1.35E-02	3.43E-02
CE-139	165.85	80.35	4.96E-02	4.96E-02	-3.06E-02	2.38E-02
BA-140	162.64	6.70	2.47E+00	6.37E-01	2.90E+00	1.19E+00
	304.84	4.50	3.52E+00		4.63E-01	1.66E+00
	423.70	3.20	5.96E+00		2.76E+00	2.80E+00
	437.55	2.00	8.84E+00		-8.67E-01	4.13E+00
	537.32	25.00	6.37E-01		-5.15E-01	2.92E-01
LA-140	328.77	20.50	9.04E-01	2.93E-01	9.10E-01	4.29E-01
	487.03	45.50	3.80E-01		-1.76E-01	1.77E-01
	815.85	23.50	9.02E-01		-4.94E-01	4.12E-01
	1596.49	95.49	2.93E-01		-4.26E-02	1.31E-01
CE-141	145.44	48.40	1.38E-01	1.38E-01	8.50E-02	6.67E-02
CE-143	57.36	11.80	3.03E+05	1.15E+05	7.79E+04	1.46E+05
	293.26	42.00	1.15E+05		-7.02E+04	5.54E+04
	664.55	5.20	9.72E+05		3.19E+05	4.54E+05
CE-144	133.54	10.80	3.45E-01	3.45E-01	1.71E-01	1.66E-01
PM-144	476.78	42.00	8.91E-02	5.32E-02	-3.07E-02	4.10E-02
	618.01	98.60	5.32E-02		-1.31E-03	2.48E-02
	696.49	99.49	5.73E-02		1.25E-02	2.67E-02
PM-145	36.85	21.70	7.02E-01	3.60E-01	-6.83E-02	3.38E-01
	37.36	39.70	3.60E-01		-3.51E-02	1.74E-01
	42.30	15.10	5.67E-01		-8.71E-02	2.73E-01
	72.40	2.31	1.50E+00		8.07E-03	7.27E-01
PM-146	453.90	39.94	1.25E-01	1.25E-01	5.06E-02	5.89E-02
	735.90	14.01	3.75E-01		5.00E-02	1.74E-01
	747.13	13.10	3.99E-01		9.04E-02	1.84E-01
ND-147	91.11	28.90	8.21E-01	8.21E-01	-1.35E+00	4.00E-01
	531.02	13.10	1.75E+00		3.67E-01	8.10E-01
PM-149	285.90	3.10	6.04E+03	6.04E+03	-3.18E+03	2.86E+03
EU-152	121.78	20.50	1.68E-01	1.68E-01	-4.32E-02	8.12E-02
	244.69	5.40	7.45E-01		-8.34E-01	3.56E-01
	344.27	19.13	1.90E-01		-3.52E-02	8.91E-02
	778.89	9.20	5.39E-01		-9.85E-02	2.47E-01
	964.01	10.40	6.84E-01		1.69E-01	3.19E-01
	1085.78	7.22	8.38E-01		2.76E-01	3.82E-01
	1112.02	9.60	7.26E-01		1.67E-01	3.35E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	3.62E-01	1.68E-01	7.17E-03	1.59E-01
	GD-153	97.43		31.30	1.19E-01	1.19E-01	1.98E-02	5.78E-02
		103.18		22.20	1.63E-01		-6.51E-02	7.88E-02
	EU-154	123.07		40.50	8.55E-02	8.55E-02	5.03E-02	4.13E-02
		723.30		19.70	2.83E-01		1.52E-02	1.32E-01
		873.19		11.50	3.75E-01		6.49E-02	1.68E-01
		996.32		10.30	5.83E-01		-1.27E-02	2.67E-01
		1004.76		17.90	4.06E-01		-2.10E-02	1.89E-01
		1274.45		35.50	1.99E-01		1.17E-01	9.07E-02
	EU-155	86.50		30.90	1.39E-01	1.39E-01	-3.04E-03	6.76E-02
		105.30		20.70	1.68E-01		1.08E-02	8.11E-02
	EU-156	811.77		10.40	1.70E+00	1.70E+00	1.06E-01	7.82E-01
		1153.47		7.20	3.34E+00		2.99E-01	1.54E+00
		1230.71		8.90	3.02E+00		1.39E-01	1.39E+00
	HO-166M	184.41		72.60	6.30E-02	6.30E-02	2.80E-02	3.05E-02
		280.45		29.60	1.26E-01		-1.38E-01	5.95E-02
		410.94		11.10	3.66E-01		-4.55E-02	1.72E-01
		711.69		54.10	9.95E-02		-2.29E-02	4.62E-02
	TM-171	66.72		0.14	2.48E+01	2.48E+01	7.60E+00	1.19E+01
	HF-172	81.75		4.52	6.85E-01	3.02E-01	-3.03E-01	3.30E-01
		125.81		11.30	3.02E-01		-3.31E-01	1.46E-01
	LU-172	181.53		20.60	3.10E+00	1.71E+00	-2.15E+00	1.49E+00
		810.06		16.63	5.31E+00		5.44E-01	2.44E+00
		912.12		15.25	1.14E+01		2.10E+01	5.44E+00
		1093.66		62.50	1.71E+00		7.40E-01	7.82E-01
	LU-173	100.72		5.24	6.83E-01	1.97E-01	6.62E-02	3.31E-01
		272.11		21.20	1.97E-01		8.22E-02	9.39E-02
	HF-175	343.40		84.00	5.93E-02	5.93E-02	-4.32E-03	2.79E-02
	LU-176	88.34		13.30	3.25E-01	3.94E-02	2.80E-01	1.58E-01
		201.83		86.00	4.56E-02		-4.67E-03	2.19E-02
		306.78		94.00	3.94E-02		5.27E-03	1.86E-02
	TA-182	67.75		41.20	9.60E-02	9.60E-02	1.19E-02	4.62E-02
		1121.30		34.90	3.08E-01		2.51E-01	1.45E-01
		1189.05		16.23	5.32E-01		6.35E-02	2.45E-01
		1221.41		26.98	3.30E-01		8.32E-02	1.52E-01
		1231.02		11.44	7.98E-01		-1.07E-01	3.69E-01
	IR-192	308.46		29.68	1.65E-01	1.02E-01	3.04E-02	7.80E-02
		468.07		48.10	1.02E-01		1.48E-02	4.74E-02
	HG-203	279.19		77.30	7.72E-02	7.72E-02	3.40E-02	3.67E-02
	BI-207	569.67		97.72	4.06E-02	4.06E-02	2.34E-03	1.87E-02
		1063.62		74.90	8.03E-02		-3.50E-05	3.66E-02
+	TL-208	583.14	*	30.22	2.12E-01	9.89E-02	5.62E-01	1.01E-01
		860.37		4.48	1.42E+00		9.54E-01	6.61E-01
		2614.66	*	35.85	9.89E-02		4.99E-01	3.87E-02
	BI-210M	262.00		45.00	8.50E-02	8.50E-02	2.24E-02	4.05E-02
		300.00		23.00	1.90E-01		2.42E-01	9.07E-02
+	PB-210	46.50	*	4.25	2.48E+00	2.48E+00	2.94E+00	1.21E+00
	PB-211	404.84		2.90	1.38E+00	1.38E+00	2.63E-01	6.46E-01
		831.96		2.90	1.91E+00		-8.02E-01	8.81E-01
+	BI-212	727.17	*	11.80	4.50E-01	4.50E-01	5.79E-01	2.09E-01
		1620.62		2.75	1.59E+00		-3.72E-02	6.68E-01
+	PB-212	238.63	*	44.60	1.68E-01	1.68E-01	6.21E-01	8.23E-02
		300.09	*	3.41	1.97E+00		8.55E-01	9.53E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	1.33E-01	1.33E-01	4.75E-01	6.29E-02
		1120.29	*	15.10	6.40E-01		4.68E-01	3.02E-01
		1764.49	*	15.80	3.36E-01		6.27E-01	1.44E-01
		2204.22	*	4.98	1.59E-01		7.06E-01	0.00E+00
+	PB-214	295.21	*	19.19	3.49E-01	1.59E-01	7.25E-01	1.69E-01
		351.92	*	37.19	1.59E-01		6.16E-01	7.66E-02
	RN-219	401.80		6.50	5.77E-01	5.77E-01	-2.93E-01	2.69E-01
	RA-223	323.87		3.88	1.05E+00	1.05E+00	3.25E-01	4.96E-01
	RA-224	240.98		3.95	1.93E+00	1.93E+00	5.93E+00	9.42E-01
	RA-225	40.00		31.00	1.30E+00	1.30E+00	7.09E-01	6.30E-01
	RA-226	186.21		3.28	1.42E+00	1.42E+00	1.68E+00	6.86E-01
	TH-227	50.10		8.40	5.11E-01	4.46E-01	-3.69E-01	2.44E-01
		236.00		11.50	4.46E-01		-3.31E+00	2.16E-01
		256.20		6.30	6.51E-01		9.97E-02	3.11E-01
+	AC-228	338.32	*	11.40	6.66E-01	3.58E-01	7.04E-01	3.23E-01
		911.07	*	27.70	3.58E-01		6.98E-01	1.71E-01
		969.11	*	16.60	5.22E-01		6.48E-01	2.47E-01
	TH-230	48.44		16.90	2.95E-01	2.95E-01	-2.46E-01	1.41E-01
		62.85		4.60	8.95E-01		9.10E-01	4.33E-01
		67.67		0.37	9.07E+00		1.12E+00	4.37E+00
	PA-231	283.67		1.60	2.38E+00	1.62E+00	6.18E-01	1.13E+00
		302.67		2.30	1.62E+00		-3.20E-01	7.66E-01
	TH-231	25.64		14.70	1.13E+01	4.79E-01	2.90E+00	5.44E+00
		84.21		6.40	4.79E-01		1.72E-01	2.31E-01
	PA-233	311.98		38.60	2.04E-01	2.04E-01	6.45E-02	9.65E-02
	PA-234	131.20		20.40	1.77E-01	1.77E-01	5.72E-02	8.54E-02
		733.99		8.80	6.01E-01		-1.86E-02	2.79E-01
		946.00		12.00	4.87E-01		-5.88E-02	2.24E-01
	PA-234M	1001.03		0.92	7.52E+00	7.52E+00	0.00E+00	3.49E+00
	TH-234	63.29		3.80	1.08E+00	1.08E+00	1.09E+00	5.20E-01
	U-235	143.76		10.50	3.54E-01	3.54E-01	9.39E-02	1.71E-01
		163.35		4.70	8.07E-01		9.46E-01	3.89E-01
		205.31		4.70	8.37E-01		1.84E-01	4.02E-01
	NP-237	86.50		12.60	3.37E-01	3.37E-01	-7.37E-03	1.64E-01
	NP-239	106.10		22.70	4.72E+02	4.72E+02	3.43E+02	2.28E+02
		228.18		10.70	1.18E+03		-1.78E+01	5.65E+02
		277.60		14.10	8.60E+02		1.62E+02	4.09E+02
	AM-241	59.54		35.90	1.04E-01	1.04E-01	-3.21E-02	5.01E-02
	AM-243	74.67		66.00	6.87E-02	6.87E-02	-1.05E-01	3.35E-02
	CM-243	209.75		3.29	1.25E+00	2.85E-01	8.86E-01	6.02E-01
		228.14		10.60	3.91E-01		-5.91E-03	1.87E-01
		277.60		14.00	2.85E-01		5.36E-02	1.35E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1508002-05

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No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

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***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-8 090-091

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	98
9:	463	1018	948	356	472	1785	379	120
17:	125	91	109	111	110	112	103	92
25:	90	98	82	79	71	94	83	118
33:	89	96	89	75	79	96	84	103
41:	89	68	79	91	93	102	131	80
49:	47	49	56	57	76	81	55	63
57:	67	78	68	85	65	81	109	117
65:	79	61	86	84	64	81	90	90
73:	97	98	257	145	292	234	73	83
81:	88	70	73	90	80	73	124	142
89:	61	101	83	91	148	122	64	47
97:	49	70	71	78	57	54	50	55
105:	73	80	44	63	51	62	47	57
113:	48	68	50	52	61	55	67	54
121:	53	50	62	54	53	39	49	53
129:	69	58	37	54	64	50	44	46
137:	48	51	48	48	52	49	57	65
145:	55	46	49	42	54	43	42	32
153:	51	63	38	56	43	41	43	36
161:	47	46	63	46	42	28	47	36
169:	39	41	51	34	48	47	38	31
177:	34	36	49	37	49	45	46	37
185:	55	124	59	38	40	39	39	34
193:	34	40	39	55	39	43	39	38
201:	41	40	37	41	42	40	34	27
209:	62	48	36	34	30	28	37	42
217:	37	39	28	44	32	26	36	40
225:	38	43	33	37	27	46	37	35
233:	42	43	25	37	36	137	332	76
241:	69	76	55	25	32	22	24	31
249:	28	36	26	28	35	29	28	37
257:	25	36	25	32	26	32	20	20
265:	22	20	27	35	24	40	34	27
273:	16	20	22	26	36	22	26	20
281:	25	18	32	17	23	25	17	22
289:	22	25	17	15	24	32	124	93
297:	13	21	26	42	29	24	14	21
305:	12	23	23	21	18	16	22	15
313:	22	31	18	36	22	20	19	19
321:	18	21	25	23	23	17	19	42
329:	17	15	23	10	22	16	12	20
337:	29	70	52	25	23	15	14	22
345:	13	14	16	10	22	14	62	188
353:	63	22	16	16	13	17	19	17
361:	15	20	18	11	19	16	14	15

369:	16	23	17	20	12	16	17	19

Sample Title: FEEBRIS1D-8 090-091

Channel								
377:	14	14	11	17	19	11	17	9
385:	11	17	17	20	23	14	12	16
393:	20	17	12	18	14	23	15	12
401:	20	13	12	10	19	18	17	14
409:	24	15	11	12	15	15	19	16
417:	11	17	18	14	11	15	12	19
425:	18	21	15	11	15	9	18	9
433:	19	9	20	12	7	12	18	16
441:	14	13	17	8	12	16	13	14
449:	19	16	16	21	19	22	21	17
457:	16	16	10	8	15	18	27	16
465:	14	11	13	7	9	15	9	9
473:	8	8	9	6	7	12	12	18
481:	11	8	20	5	12	10	15	10
489:	9	14	18	3	15	16	9	3
497:	6	10	11	7	5	14	7	12
505:	9	12	9	10	20	37	70	40
513:	14	10	14	7	18	15	16	9
521:	6	8	4	12	14	16	16	15
529:	10	8	10	9	16	11	6	9
537:	10	12	3	15	11	10	8	11
545:	11	12	8	11	10	9	9	9
553:	5	10	8	11	7	8	6	9
561:	11	10	9	9	7	8	10	7
569:	10	9	8	11	7	13	10	9
577:	7	9	7	10	7	29	83	47
585:	17	10	7	8	11	11	17	6
593:	11	4	9	14	9	11	9	8
601:	10	10	9	5	10	10	4	26
609:	114	72	11	6	10	11	8	9
617:	8	10	8	6	14	9	7	8
625:	15	8	4	7	5	13	14	9
633:	14	11	12	20	13	9	9	12
641:	11	9	9	4	7	12	4	7
649:	6	3	5	8	11	7	7	7
657:	6	5	9	11	15	13	7	10
665:	6	8	9	5	8	9	10	4
673:	6	9	10	8	13	5	11	8
681:	8	11	8	12	11	6	5	6
689:	10	4	12	8	7	11	11	9
697:	10	7	7	8	4	14	9	6
705:	10	10	10	13	6	11	7	6
713:	11	5	8	11	3	11	7	7
721:	7	11	7	5	8	16	24	21
729:	9	5	6	13	6	5	11	5
737:	8	13	4	8	1	12	4	6
745:	5	8	12	7	8	4	4	5
753:	6	7	2	11	10	6	6	10
761:	3	10	15	7	5	14	10	15
769:	19	5	3	6	6	3	7	7
777:	5	2	8	4	7	9	10	7
785:	15	8	11	8	2	7	4	4
793:	7	12	19	14	6	6	4	8

801:	3	11	13	11	8	5	7	6

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Channel								
809:	5	6	7	10	4	4	7	4
817:	5	5	8	6	8	6	11	8
825:	6	6	6	7	5	10	8	9
833:	7	5	4	11	10	6	8	6
841:	16	4	6	10	4	10	7	7
849:	8	9	6	6	3	7	3	4
857:	4	2	5	19	14	9	8	5
865:	8	4	5	5	7	4	4	4
873:	6	1	2	4	8	10	10	10
881:	7	1	8	7	6	10	4	2
889:	4	2	8	4	6	10	5	3
897:	4	6	11	5	5	4	8	7
905:	8	7	7	6	5	22	58	47
913:	11	7	5	7	5	3	9	4
921:	7	3	7	0	9	4	2	7
929:	7	5	6	6	6	9	12	6
937:	5	5	5	9	3	1	4	7
945:	6	8	4	9	5	10	11	6
953:	4	6	6	3	0	8	8	6
961:	4	6	5	12	20	8	8	24
969:	43	20	7	4	2	4	5	4
977:	9	8	4	3	5	7	5	5
985:	6	5	1	5	4	9	7	4
993:	4	3	8	10	6	3	7	5
1001:	16	7	12	6	11	5	4	8
1009:	13	6	7	6	5	5	7	4
1017:	6	6	3	1	8	3	7	6
1025:	0	8	5	6	4	4	3	9
1033:	7	1	5	4	5	10	6	2
1041:	5	5	4	11	8	3	9	5
1049:	4	5	7	6	6	2	3	4
1057:	10	7	6	7	7	7	1	5
1065:	2	8	6	3	4	3	6	7
1073:	4	5	5	1	10	7	7	7
1081:	4	6	3	6	7	7	5	2
1089:	2	3	8	7	7	4	6	5
1097:	6	4	6	1	7	5	6	4
1105:	6	5	5	5	11	2	5	7
1113:	10	7	5	5	7	7	10	25
1121:	15	8	11	7	8	6	3	6
1129:	6	5	5	8	11	4	7	7
1137:	3	5	11	10	6	5	3	7
1145:	14	6	6	9	5	6	4	6
1153:	10	9	4	5	2	8	5	9
1161:	8	6	4	4	10	9	2	5
1169:	5	5	4	6	7	10	10	6
1177:	4	5	9	2	4	7	2	7
1185:	3	6	4	8	10	7	6	6
1193:	3	11	7	12	8	5	3	9
1201:	3	15	9	7	7	5	8	9
1209:	11	8	5	4	7	7	11	10
1217:	11	2	8	7	11	4	11	5
1225:	8	4	10	5	9	6	8	7

1233:	5	10	5	12	10	15	11	8

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Channel								
1241:	9	7	11	6	8	8	8	6
1249:	1	3	2	6	6	3	3	4
1257:	8	4	9	6	6	5	6	7
1265:	5	5	5	6	4	1	3	5
1273:	10	5	7	4	4	2	4	6
1281:	3	3	7	5	12	5	7	4
1289:	2	6	4	5	0	3	3	2
1297:	1	3	0	1	2	3	3	7
1305:	4	4	3	0	7	3	3	2
1313:	2	8	5	4	6	3	2	3
1321:	3	2	3	3	4	1	3	3
1329:	1	3	7	3	1	1	5	0
1337:	4	2	1	1	4	1	2	3
1345:	4	4	5	3	2	0	2	4
1353:	3	0	2	1	5	4	3	1
1361:	1	6	3	5	3	2	4	6
1369:	2	2	3	4	4	4	2	3
1377:	6	4	2	3	0	2	2	5
1385:	3	0	1	3	1	1	4	1
1393:	2	1	1	3	2	2	1	1
1401:	2	4	2	0	1	4	4	5
1409:	1	3	1	3	2	1	3	0
1417:	3	2	2	3	1	0	1	3
1425:	1	2	1	3	2	4	1	1
1433:	3	2	2	1	2	5	1	1
1441:	1	3	4	2	5	3	2	2
1449:	4	3	2	2	2	0	3	2
1457:	1	13	51	209	277	121	16	3
1465:	2	0	2	1	3	2	1	2
1473:	3	4	0	0	3	2	1	1
1481:	3	1	1	1	1	1	1	0
1489:	2	3	0	2	1	1	0	1
1497:	2	2	1	0	3	0	0	1
1505:	1	0	0	3	7	4	2	1
1513:	2	0	1	3	1	1	3	0
1521:	1	1	3	1	2	4	2	0
1529:	0	0	1	1	0	1	1	2
1537:	1	3	1	3	1	0	3	1
1545:	0	0	3	0	2	3	2	0
1553:	2	1	0	1	2	3	1	3
1561:	0	1	0	1	1	1	1	1
1569:	1	1	0	0	2	0	0	1
1577:	1	0	1	4	2	1	2	1
1585:	3	5	4	10	3	3	2	2
1593:	5	4	3	0	2	2	1	3
1601:	1	1	0	0	3	1	1	2
1609:	3	0	0	1	2	0	1	2
1617:	0	0	1	1	3	0	1	1
1625:	2	1	3	1	1	1	2	2
1633:	0	0	0	1	2	0	1	1
1641:	0	1	1	4	0	2	3	0
1649:	2	0	0	2	3	1	0	4
1657:	0	0	2	2	3	0	3	1

1665:	1	2	2	3	1	1	1	2

Sample Title: FEEBRIS1D-8 090-091

Channel								
1673:	0	1	0	1	0	1	0	1
1681:	0	2	0	0	0	3	1	1
1689:	1	0	3	1	1	0	2	1
1697:	0	1	1	1	1	1	0	0
1705:	1	0	2	1	1	3	1	0
1713:	1	0	3	1	1	1	1	2
1721:	1	1	0	1	2	2	2	3
1729:	8	5	2	0	2	0	3	0
1737:	0	2	1	1	0	0	0	3
1745:	0	0	0	2	0	0	1	1
1753:	2	0	2	0	0	0	1	0
1761:	1	2	9	16	11	3	1	1
1769:	1	0	1	0	1	0	1	1
1777:	2	1	0	0	2	0	0	2
1785:	1	1	0	0	1	2	4	1
1793:	0	1	1	0	0	0	1	0
1801:	1	2	1	2	0	1	2	0
1809:	1	0	3	2	1	2	2	2
1817:	0	1	0	1	0	1	1	1
1825:	0	1	0	0	1	0	1	2
1833:	1	1	0	2	0	0	2	2
1841:	2	0	0	1	1	1	3	2
1849:	3	2	0	1	3	0	0	0
1857:	1	2	0	1	0	2	1	1
1865:	0	1	1	2	0	1	2	1
1873:	1	0	1	1	3	0	0	3
1881:	2	0	0	1	1	0	1	2
1889:	0	0	1	2	1	0	0	0
1897:	1	1	1	1	0	1	1	0
1905:	1	0	0	0	0	0	2	0
1913:	0	0	0	0	1	2	0	0
1921:	1	0	1	0	0	1	1	4
1929:	0	0	0	0	0	0	0	0
1937:	0	0	1	0	6	0	1	0
1945:	0	0	2	1	1	1	1	0
1953:	0	1	0	0	1	3	1	0
1961:	1	0	0	0	0	2	0	1
1969:	0	0	0	2	0	0	0	1
1977:	0	1	1	0	1	0	0	1
1985:	3	2	0	1	1	0	0	0
1993:	0	1	1	0	0	0	2	0
2001:	0	2	0	0	0	1	1	0
2009:	2	1	2	1	1	2	1	2
2017:	0	1	1	2	0	0	1	0
2025:	2	1	3	1	0	1	0	0
2033:	2	0	2	0	0	1	0	1
2041:	0	0	0	0	0	0	1	1
2049:	0	1	1	1	0	1	0	2
2057:	2	1	0	4	0	0	1	1
2065:	1	3	0	1	0	2	1	0
2073:	1	0	0	2	1	1	1	2
2081:	0	0	1	0	1	4	1	0
2089:	1	1	0	0	1	0	0	0

2097:	0	0	1	2	0	1	4	5

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Channel								
2105:	0	2	1	1	2	0	0	0
2113:	0	1	1	1	1	1	3	2
2121:	2	0	0	0	0	0	0	1
2129:	1	0	1	0	2	2	1	1
2137:	0	1	2	0	0	0	0	0
2145:	0	2	0	0	1	3	0	1
2153:	1	0	1	4	0	0	0	0
2161:	3	0	0	0	2	0	0	0
2169:	2	1	0	2	0	2	0	1
2177:	1	1	0	0	0	0	0	1
2185:	0	0	0	1	0	1	0	0
2193:	1	1	0	1	1	0	0	0
2201:	0	2	4	4	2	0	0	1
2209:	0	0	0	0	2	1	0	0
2217:	1	0	0	2	1	1	3	0
2225:	0	0	2	2	1	0	1	1
2233:	1	2	1	0	1	1	2	0
2241:	1	0	1	2	1	0	2	2
2249:	2	2	0	1	1	1	0	1
2257:	1	1	1	1	1	0	2	2
2265:	0	1	1	0	1	1	0	1
2273:	0	0	1	1	2	0	1	1
2281:	1	1	1	0	2	0	0	0
2289:	0	3	1	1	0	2	1	1
2297:	2	0	2	1	0	1	1	1
2305:	1	0	0	2	2	2	1	1
2313:	0	2	2	2	0	0	3	0
2321:	0	1	0	1	0	0	1	0
2329:	1	1	1	1	2	1	1	1
2337:	0	1	0	1	1	1	0	1
2345:	1	0	3	0	0	0	1	0
2353:	0	2	1	0	0	0	1	2
2361:	0	0	0	1	0	0	0	0
2369:	1	1	1	0	0	1	0	0
2377:	3	1	0	1	1	0	0	1
2385:	0	2	1	0	0	0	0	0
2393:	0	0	1	2	1	0	0	0
2401:	0	0	1	0	2	0	0	1
2409:	1	3	0	0	1	0	0	0
2417:	0	1	0	0	1	0	0	1
2425:	2	3	0	1	1	1	0	0
2433:	1	1	1	0	0	0	1	1
2441:	3	1	0	0	2	1	2	1
2449:	1	0	1	0	1	0	0	0
2457:	0	0	1	0	0	1	0	1
2465:	0	2	3	0	0	2	1	0
2473:	0	0	2	0	0	0	2	0
2481:	1	0	0	0	1	2	0	0
2489:	0	0	0	0	1	0	0	0
2497:	0	0	1	0	1	0	0	0
2505:	0	1	1	0	0	1	1	0
2513:	0	0	0	0	0	0	0	1
2521:	0	0	0	0	0	0	1	2

2529:	0	1	0	0	0	0	0	0

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Channel								
2537:	0	0	0	0	1	1	1	0
2545:	0	0	0	0	2	0	0	0
2553:	1	0	0	2	3	1	1	0
2561:	0	0	0	1	0	0	0	0
2569:	0	1	1	1	0	0	0	0
2577:	1	0	1	0	2	0	0	1
2585:	1	1	0	0	0	0	0	0
2593:	0	0	0	0	0	0	1	0
2601:	0	0	1	0	0	0	0	0
2609:	1	1	1	10	19	16	15	6
2617:	2	0	0	0	1	0	0	1
2625:	0	0	0	1	1	0	0	0
2633:	1	2	0	0	0	0	0	0
2641:	0	0	0	0	0	1	0	0
2649:	1	0	0	0	0	0	1	0
2657:	0	0	1	2	0	2	0	0
2665:	0	1	1	1	0	0	0	0
2673:	1	0	0	0	0	1	0	0
2681:	0	1	2	0	1	0	0	0
2689:	0	0	0	1	0	0	0	0
2697:	0	0	0	0	0	0	0	1
2705:	0	0	1	0	0	0	0	0
2713:	0	1	0	0	1	0	1	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	1	1	0	1	0	0
2737:	1	0	0	0	0	0	0	0
2745:	0	0	0	1	0	0	0	0
2753:	0	1	0	0	0	0	2	0
2761:	0	0	0	0	0	0	0	0
2769:	1	0	0	0	0	0	0	0
2777:	0	1	1	0	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	1	0	0	1	0	0	1
2801:	0	1	1	0	0	1	1	0
2809:	0	0	2	0	1	0	0	0
2817:	0	0	1	1	0	0	0	0
2825:	0	0	0	0	1	1	0	0
2833:	0	0	0	1	0	0	1	0
2841:	0	0	0	0	1	0	0	0
2849:	0	0	0	1	0	0	1	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	1	0	0	0	0
2873:	0	0	0	0	0	0	0	1
2881:	1	1	0	0	0	1	0	0
2889:	0	0	1	0	0	0	0	1
2897:	0	0	0	0	1	0	0	0
2905:	0	0	2	0	1	0	1	0
2913:	1	0	0	0	1	0	0	0
2921:	0	0	1	0	0	0	0	0
2929:	0	0	0	0	0	0	1	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	1	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	0	0	0	0	0	0	0

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Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	1
2993:	0	0	0	0	0	2	1	1
3001:	1	0	0	0	0	0	0	0
3009:	1	0	0	0	0	0	0	0
3017:	1	0	0	0	0	0	1	0
3025:	0	0	0	0	1	0	0	0
3033:	0	0	0	2	0	0	0	0
3041:	0	1	0	0	0	1	0	1
3049:	0	0	0	0	0	0	0	0
3057:	0	0	1	1	0	0	0	0
3065:	0	0	0	0	0	1	0	1
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	2	0	0	0	0
3089:	1	1	0	0	0	0	1	1
3097:	0	1	0	0	0	0	0	1
3105:	0	0	0	0	1	1	0	0
3113:	0	0	0	1	0	0	1	0
3121:	0	1	0	0	0	0	0	0
3129:	0	1	0	0	0	0	0	2
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	0	0	0	0
3153:	0	1	1	0	0	0	0	0
3161:	0	1	0	0	0	2	1	0
3169:	0	1	0	0	0	0	1	1
3177:	0	0	1	1	0	0	0	1
3185:	0	0	0	0	1	0	0	0
3193:	0	1	1	0	0	0	0	0
3201:	0	0	0	0	0	1	0	0
3209:	1	0	0	0	0	0	0	0
3217:	0	0	1	0	0	1	0	1
3225:	0	0	0	0	0	0	0	0
3233:	0	0	1	2	0	0	1	0
3241:	0	0	1	0	0	1	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	1	0	1	0	0	0	0	0
3281:	0	0	0	1	0	0	0	0
3289:	0	0	0	0	1	0	0	1
3297:	0	0	0	0	1	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	2	1	1	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	1	0	1	1
3337:	0	1	0	0	0	0	0	0
3345:	0	0	0	1	0	0	0	0
3353:	0	0	0	0	0	0	1	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	1	0	0	0	0
3377:	0	0	0	0	1	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	1	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-8 090-091

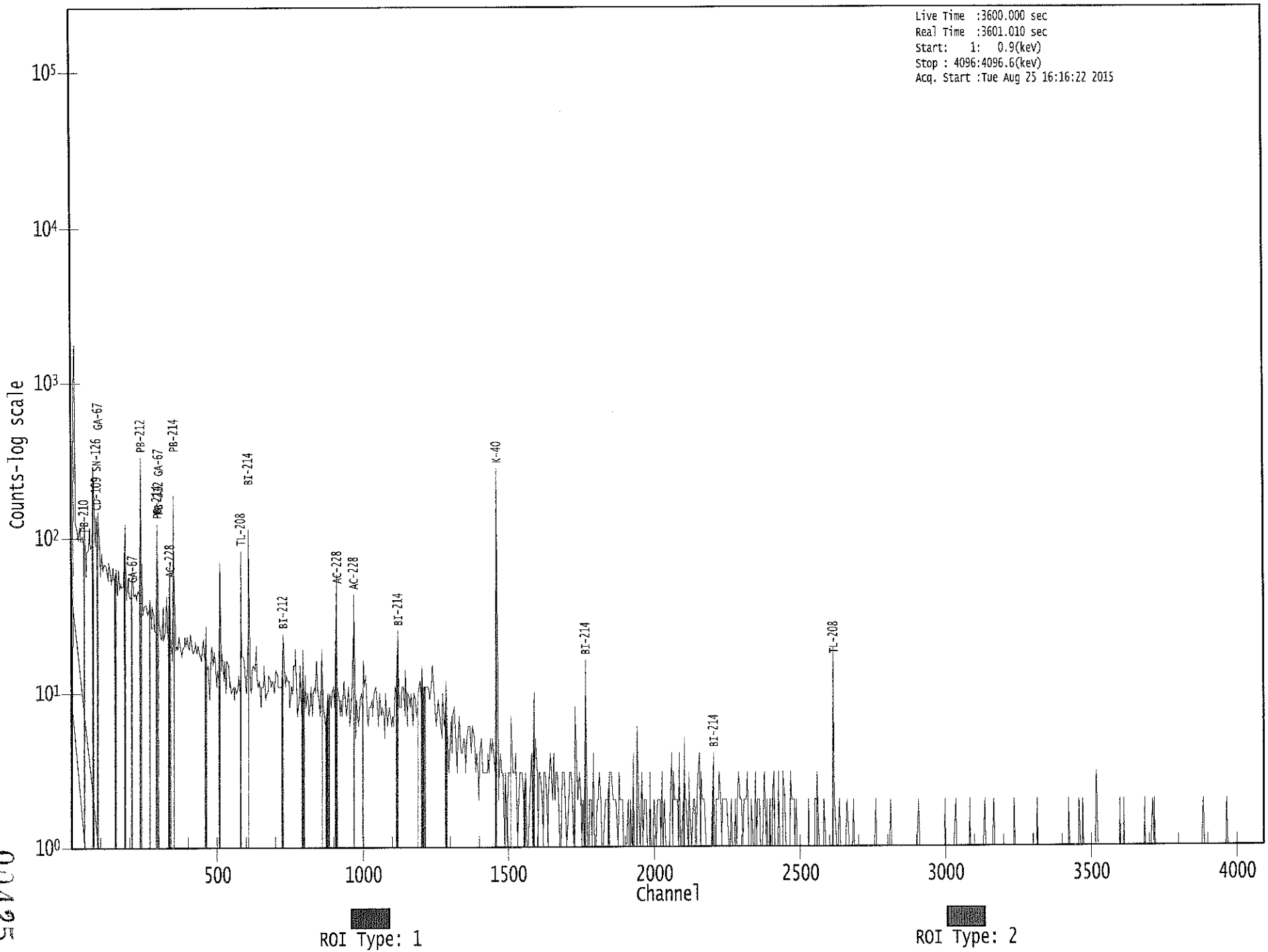
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	1	0	0
3417:	0	0	0	0	0	2	0	1
3425:	1	0	0	0	0	0	0	0
3433:	0	0	0	0	0	1	0	0
3441:	1	0	1	0	0	0	0	0
3449:	0	0	0	0	0	0	0	1
3457:	0	2	1	0	0	0	1	0
3465:	0	0	0	0	0	2	2	0
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	1	1	0	0	0	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	2	3	1	0	0
3521:	1	1	1	0	0	0	0	0
3529:	0	0	0	0	0	1	0	1
3537:	0	0	0	1	0	0	0	0
3545:	0	0	1	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	1
3569:	1	0	0	1	1	0	0	0
3577:	0	0	0	0	1	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	2	0	0
3601:	0	0	0	0	0	0	0	0
3609:	1	0	2	2	0	1	0	0
3617:	1	0	0	0	0	0	0	1
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	1	0	0	0	0	0	0
3657:	0	1	0	1	0	0	1	0
3665:	1	0	1	0	0	0	1	0
3673:	0	0	0	0	0	0	0	0
3681:	0	1	0	2	0	0	0	0
3689:	0	0	1	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	2	0
3713:	0	0	0	1	2	1	0	0
3721:	0	0	0	0	0	1	0	0
3729:	0	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	1	0
3753:	0	0	0	0	0	0	0	0
3761:	0	1	0	1	0	0	1	0
3769:	1	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	0	0	0	0	1	0
3801:	0	1	0	0	0	0	0	0
3809:	0	1	0	0	0	0	0	0
3817:	0	0	0	1	0	0	0	0

3825:	0	0	1	0	0	1	0	0

Sample Title: FEEBRIS1D-8 090-091

Channel								
3833:	0	0	0	0	0	0	0	1
3841:	0	0	0	0	1	1	0	0
3849:	0	0	0	0	0	1	0	0
3857:	0	0	1	0	0	0	0	0
3865:	0	0	1	0	1	0	0	0
3873:	0	0	0	0	0	0	1	0
3881:	1	0	0	0	2	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	1	0	1	0	1
3905:	0	0	0	0	0	0	0	1
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	1
3929:	1	0	1	0	0	0	0	0
3937:	0	0	0	1	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	1	0	0	2	0	0	0
3969:	0	0	0	0	1	0	0	0
3977:	0	1	0	0	0	0	0	0
3985:	0	0	0	0	0	0	1	0
3993:	0	0	1	0	0	0	0	0
4001:	1	0	0	0	0	0	0	0
4009:	0	0	0	0	0	1	0	0
4017:	0	0	0	0	0	0	0	1
4025:	0	0	0	0	1	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	0	0	0	0	0	1	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	1	0	1	0	0	0	1	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	1	0	0	0	0	0

0000026408.CNF



00425

RWB 8/25/15

Apex-Gamma

Analysis Report for 1508002-06
FEEBRIS1D-4 061-062

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-06
Sample Description	: FEEBRIS1D-4 061-062
Sample Type	: SOIL
Sample Size	: 5.606E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:38:40AM
Acquisition Started	: 8/25/2015 4:23:57PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3613.3 seconds
Dead Time	: 0.37 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26410

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 5:24:12PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.54	46.78	0.0000	0.00
2	62.45	62.67	0.0000	0.00
3	76.29	76.51	0.0000	0.00
4	87.80	88.01	0.0000	0.00
5	178.77	178.93	0.0000	0.00
6	186.21	186.37	0.0000	0.00
7	210.35	210.50	0.0000	0.00
8	238.78	238.91	0.0000	0.00
9	241.94	242.06	0.0000	0.00
10	270.50	270.61	0.0000	0.00
11	295.41	295.51	0.0000	0.00
12	300.38	300.47	0.0000	0.00
13	327.06	327.14	0.0000	0.00
14	338.29	338.37	0.0000	0.00
15	352.08	352.15	0.0000	0.00
16	463.73	463.74	0.0000	0.00
17	479.85	479.85	0.0000	0.00
18	511.01	511.00	0.0000	0.00
19	536.52	536.50	0.0000	0.00
20	583.28	583.24	0.0000	0.00
21	609.64	609.59	0.0000	0.00
22	632.30	632.24	0.0000	0.00
23	728.04	727.93	0.0000	0.00
24	769.24	769.11	0.0000	0.00
25	776.28	776.14	0.0000	0.00
26	795.49	795.35	0.0000	0.00
27	837.55	837.39	0.0000	0.00
28	860.56	860.39	0.0000	0.00
29	911.66	911.46	0.0000	0.00
30	969.39	969.17	0.0000	0.00
31	1120.43	1120.15	0.0000	0.00
32	1177.15	1176.84	0.0000	0.00
33	1206.61	1206.29	0.0000	0.00
34	1213.02	1212.70	0.0000	0.00
35	1422.77	1422.36	0.0000	0.00
36	1427.41	1427.00	0.0000	0.00
37	1461.25	1460.82	0.0000	0.00
38	1535.93	1535.48	0.0000	0.00
39	1694.96	1694.45	0.0000	0.00
40	1711.64	1711.13	0.0000	0.00
41	1764.82	1764.29	0.0000	0.00
42	1847.05	1846.49	0.0000	0.00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1947.50	1946.91	0.0000	0.00
44	1967.22	1966.63	0.0000	0.00
45	2074.72	2074.09	0.0000	0.00
46	2127.59	2126.95	0.0000	0.00
47	2205.12	2204.46	0.0000	0.00
48	2615.26	2614.48	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.54	43	51	46.78	2.02E+02	101.31	1.47E+03	1.70
	2	62.45	58	66	62.67	1.92E+02	120.42	2.12E+03	1.97
	3	76.29	71	81	76.51	1.09E+03	155.72	2.63E+03	3.77
	4	87.80	86	91	88.01	1.32E+02	91.78	1.59E+03	1.27
	5	178.77	176	182	178.93	5.20E+01	62.35	6.70E+02	3.42
	6	186.21	183	190	186.37	1.70E+02	74.57	8.16E+02	1.63
	7	210.35	208	214	210.50	5.41E+01	58.18	5.80E+02	1.80
M	8	238.78	235	246	238.91	6.88E+02	65.45	3.57E+02	1.68
m	9	241.94	235	246	242.06	2.02E+02	70.21	4.22E+02	2.03
	10	270.50	268	275	270.61	7.66E+01	54.33	4.43E+02	2.05
M	11	295.41	291	303	295.51	2.52E+02	44.57	2.30E+02	1.83
m	12	300.38	291	303	300.47	7.40E+01	44.70	2.86E+02	2.23
	13	327.06	322	332	327.14	6.11E+01	62.92	4.96E+02	1.85
	14	338.29	335	342	338.37	1.15E+02	48.29	3.12E+02	2.05
	15	352.08	348	356	352.15	3.61E+02	61.74	3.65E+02	1.58
	16	463.73	457	470	463.74	1.22E+02	53.08	2.59E+02	4.10
	17	479.85	477	484	479.85	2.97E+01	32.80	1.59E+02	3.19
	18	511.01	508	515	511.00	1.08E+02	38.37	1.76E+02	2.17
	19	536.52	533	540	536.50	2.98E+01	30.13	1.30E+02	1.57
	20	583.28	578	588	583.24	1.94E+02	45.78	1.77E+02	2.12
	21	609.64	607	613	609.59	3.01E+02	44.25	1.33E+02	2.14
	22	632.30	629	636	632.24	2.85E+01	28.77	1.17E+02	2.21
	23	728.04	724	733	727.93	6.04E+01	38.41	1.79E+02	1.95
	24	769.24	766	773	769.11	3.67E+01	28.21	1.09E+02	1.52
	25	776.28	774	778	776.14	1.37E+01	18.23	6.06E+01	2.26
	26	795.49	789	801	795.35	4.91E+01	38.76	1.46E+02	3.35
	27	837.55	832	844	837.39	3.55E+01	39.73	1.69E+02	2.53
	28	860.56	856	864	860.39	2.88E+01	25.94	8.64E+01	1.48
	29	911.66	907	916	911.46	1.30E+02	36.37	1.13E+02	1.91
	30	969.39	966	973	969.17	4.60E+01	33.23	1.48E+02	1.74
	31	1120.43	1116	1125	1120.15	7.82E+01	30.15	8.57E+01	2.08
	32	1177.15	1168	1184	1176.84	4.29E+01	37.68	1.18E+02	11.33
	33	1206.61	1204	1209	1206.29	2.86E+01	16.97	3.29E+01	3.84
	34	1213.02	1210	1216	1212.70	1.83E+01	18.09	4.74E+01	2.02
M	35	1422.77	1416	1429	1422.36	1.47E+01	16.85	1.97E+01	4.68
m	36	1427.41	1416	1429	1427.00	7.87E+00	9.00	1.75E+01	3.61
	37	1461.25	1456	1466	1460.82	5.05E+02	46.74	2.20E+01	2.41
	38	1535.93	1530	1540	1535.48	1.73E+01	10.50	5.40E+00	3.52
	39	1694.96	1690	1696	1694.45	5.22E+00	7.78	7.56E+00	1.63
	40	1711.64	1708	1714	1711.13	7.50E+00	8.28	7.00E+00	1.75

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
41	1764.82	1760 -	1770	1764.29	3.33E+01	17.35	2.35E+01	2.41
42	1847.05	1841 -	1850	1846.49	1.49E+01	11.40	1.02E+01	6.16
43	1947.50	1943 -	1950	1946.91	9.38E+00	9.17	7.23E+00	3.16
44	1967.22	1961 -	1971	1966.63	1.44E+01	9.91	5.24E+00	6.52
45	2074.72	2069 -	2078	2074.09	8.64E+00	8.31	4.73E+00	3.13
46	2127.59	2123 -	2131	2126.95	8.59E+00	8.02	4.82E+00	3.02
47	2205.12	2198 -	2208	2204.46	1.07E+01	14.32	2.06E+01	1.81
48	2615.26	2610 -	2618	2614.48	4.78E+01	14.84	4.48E+00	3.24

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.54	43 -	51	2.02E+02	101.31	1.47E+03	7.99E+01
	2	62.45	58 -	66	1.92E+02	120.42	2.12E+03	9.63E+01
	3	76.29	71 -	81	1.09E+03	155.72	2.63E+03	1.16E+02
	4	87.80	86 -	91	1.32E+02	91.78	1.59E+03	7.30E+01
	5	178.77	176 -	182	5.20E+01	62.35	6.70E+02	4.99E+01
	6	186.21	183 -	190	1.70E+02	74.57	8.16E+02	5.74E+01
	7	210.35	208 -	214	5.41E+01	58.18	5.80E+02	4.63E+01
M	8	238.78	235 -	246	6.88E+02	65.45	3.57E+02	3.10E+01
m	9	241.94	235 -	246	2.02E+02	70.21	4.22E+02	3.38E+01
	10	270.50	268 -	275	7.66E+01	54.33	4.43E+02	4.23E+01
M	11	295.41	291 -	303	2.52E+02	44.57	2.30E+02	2.49E+01
m	12	300.38	291 -	303	7.40E+01	44.70	2.86E+02	2.78E+01
	13	327.06	322 -	332	6.11E+01	62.92	4.96E+02	5.01E+01
	14	338.29	335 -	342	1.15E+02	48.29	3.12E+02	3.56E+01
	15	352.08	348 -	356	3.61E+02	61.74	3.65E+02	4.00E+01
	16	463.73	457 -	470	1.22E+02	53.08	2.59E+02	3.97E+01
	17	479.85	477 -	484	2.97E+01	32.80	1.59E+02	2.54E+01
	18	511.01	508 -	515	1.08E+02	38.37	1.76E+02	2.65E+01
	19	536.52	533 -	540	2.98E+01	30.13	1.30E+02	2.31E+01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	20	583.28	578 -	588	1.94E+02	45.78	1.77E+02	2.99E+01
	21	609.64	607 -	613	3.01E+02	44.25	1.33E+02	2.26E+01
	22	632.30	629 -	636	2.85E+01	28.77	1.17E+02	2.20E+01
	23	728.04	724 -	733	6.04E+01	38.41	1.79E+02	2.89E+01
	24	769.24	766 -	773	3.67E+01	28.21	1.09E+02	2.09E+01
	25	776.28	774 -	778	1.37E+01	18.23	6.06E+01	1.37E+01
	26	795.49	789 -	801	4.91E+01	38.76	1.46E+02	2.97E+01
	27	837.55	832 -	844	3.55E+01	39.73	1.69E+02	1.57E+01
	28	860.56	856 -	864	2.88E+01	25.94	8.64E+01	1.94E+01
	29	911.66	907 -	916	1.30E+02	36.37	1.13E+02	2.33E+01
	30	969.39	966 -	973	4.60E+01	33.23	1.48E+02	2.49E+01
	31	1120.43	1116 -	1125	7.82E+01	30.15	8.57E+01	2.01E+01
	32	1177.15	1168 -	1184	4.29E+01	37.68	1.18E+02	2.90E+01
	33	1206.61	1204 -	1209	2.86E+01	16.97	3.29E+01	1.08E+01
	34	1213.02	1210 -	1216	1.83E+01	18.09	4.74E+01	1.31E+01
M	35	1422.77	1416 -	1429	1.47E+01	16.85	1.97E+01	7.29E+00
m	36	1427.41	1416 -	1429	7.87E+00	9.00	1.75E+01	6.87E+00
	37	1461.25	1456 -	1466	5.05E+02	46.74	2.20E+01	1.06E+01
	38	1535.93	1530 -	1540	1.73E+01	10.50	5.40E+00	5.27E+00
	39	1694.96	1690 -	1696	5.22E+00	7.78	7.56E+00	5.17E+00
	40	1711.64	1708 -	1714	7.50E+00	8.28	7.00E+00	5.10E+00
	41	1764.82	1760 -	1770	3.33E+01	17.35	2.35E+01	1.07E+01
	42	1847.05	1841 -	1850	1.49E+01	11.40	1.02E+01	6.90E+00
	43	1947.50	1943 -	1950	9.38E+00	9.17	7.23E+00	5.60E+00
	44	1967.22	1961 -	1971	1.44E+01	9.91	5.24E+00	5.25E+00
	45	2074.72	2069 -	2078	8.64E+00	8.31	4.73E+00	4.83E+00
	46	2127.59	2123 -	2131	8.59E+00	8.02	4.82E+00	4.49E+00
	47	2205.12	2198 -	2208	1.07E+01	14.32	2.06E+01	1.05E+01
	48	2615.26	2610 -	2618	4.78E+01	14.84	4.48E+00	4.44E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.54	43 -	51	46.78	2.02E+02	101.31	1.47E+03	PB-210
	2	62.45	58 -	66	62.67	1.92E+02	120.42	2.12E+03	TH-230
									TH-234
	3	76.29	71 -	81	76.51	1.09E+03	155.72	2.63E+03	.....
	4	87.80	86 -	91	88.01	1.32E+02	91.78	1.59E+03	CD-109
									SN-126
									LU-176
	5	178.77	176 -	182	178.93	5.20E+01	62.35	6.70E+02	.....
	6	186.21	183 -	190	186.37	1.70E+02	74.57	8.16E+02	RA-226
	7	210.35	208 -	214	210.50	5.41E+01	58.18	5.80E+02	CM-243
M	8	238.78	235 -	246	238.91	6.88E+02	65.45	3.57E+02	PB-212
m	9	241.94	235 -	246	242.06	2.02E+02	70.21	4.22E+02	RA-224
	10	270.50	268 -	275	270.61	7.66E+01	54.33	4.43E+02	.....
M	11	295.41	291 -	303	295.51	2.52E+02	44.57	2.30E+02	PB-214
m	12	300.38	291 -	303	300.47	7.40E+01	44.70	2.86E+02	GA-67
									PB-212
									BI-210M
	13	327.06	322 -	332	327.14	6.11E+01	62.92	4.96E+02	.....
	14	338.29	335 -	342	338.37	1.15E+02	48.29	3.12E+02	AC-228
	15	352.08	348 -	356	352.15	3.61E+02	61.74	3.65E+02	PB-214
	16	463.73	457 -	470	463.74	1.22E+02	53.08	2.59E+02	SB-125
	17	479.85	477 -	484	479.85	2.97E+01	32.80	1.59E+02	.....
	18	511.01	508 -	515	511.00	1.08E+02	38.37	1.76E+02	.....
	19	536.52	533 -	540	536.50	2.98E+01	30.13	1.30E+02	BA-140
	20	583.28	578 -	588	583.24	1.94E+02	45.78	1.77E+02	TL-208
	21	609.64	607 -	613	609.59	3.01E+02	44.25	1.33E+02	BI-214
	22	632.30	629 -	636	632.24	2.85E+01	28.77	1.17E+02	.....
	23	728.04	724 -	733	727.93	6.04E+01	38.41	1.79E+02	BI-212
	24	769.24	766 -	773	769.11	3.67E+01	28.21	1.09E+02	.....
	25	776.28	774 -	778	776.14	1.37E+01	18.23	6.06E+01	RB-82
	26	795.49	789 -	801	795.35	4.91E+01	38.76	1.46E+02	CS-134
	27	837.55	832 -	844	837.39	3.55E+01	39.73	1.69E+02	.....
	28	860.56	856 -	864	860.39	2.88E+01	25.94	8.64E+01	TL-208
	29	911.66	907 -	916	911.46	1.30E+02	36.37	1.13E+02	LU-172
									AC-228
	30	969.39	966 -	973	969.17	4.60E+01	33.23	1.48E+02	AC-228
	31	1120.43	1116 -	1125	1120.15	7.82E+01	30.15	8.57E+01	SC-46
									BI-214
									TA-182
	32	1177.15	1168 -	1184	1176.84	4.29E+01	37.68	1.18E+02	.....
	33	1206.61	1204 -	1209	1206.29	2.86E+01	16.97	3.29E+01	.....
	34	1213.02	1210 -	1216	1212.70	1.83E+01	18.09	4.74E+01	.....
M	35	1422.77	1416 -	1429	1422.36	1.47E+01	16.85	1.97E+01	.....
m	36	1427.41	1416 -	1429	1427.00	7.87E+00	9.00	1.75E+01	.....
	37	1461.25	1456 -	1466	1460.82	5.05E+02	46.74	2.20E+01	K-40
	38	1535.93	1530 -	1540	1535.48	1.73E+01	10.50	5.40E+00	.....
	39	1694.96	1690 -	1696	1694.45	5.22E+00	7.78	7.56E+00	.....
	40	1711.64	1708 -	1714	1711.13	7.50E+00	8.28	7.00E+00	.....
	41	1764.82	1760 -	1770	1764.29	3.33E+01	17.35	2.35E+01	BI-214
	42	1847.05	1841 -	1850	1846.49	1.49E+01	11.40	1.02E+01	.....
	43	1947.50	1943 -	1950	1946.91	9.38E+00	9.17	7.23E+00	.....

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
44	1967.22	1961 -	1971	1966.63	1.44E+01	9.91	5.24E+00	.....
45	2074.72	2069 -	2078	2074.09	8.64E+00	8.31	4.73E+00	.....
46	2127.59	2123 -	2131	2126.95	8.59E+00	8.02	4.82E+00	.....
47	2205.12	2198 -	2208	2204.46	1.07E+01	14.32	2.06E+01	BI-214
48	2615.26	2610 -	2618	2614.48	4.78E+01	14.84	4.48E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.54	2.02E+02	101.31	1.50E-02	1.58E-03
	2	62.45	1.92E+02	120.42	2.14E-02	1.68E-03
	3	76.29	1.09E+03	155.72	2.38E-02	2.14E-03
	4	87.80	1.32E+02	91.78	2.44E-02	2.52E-03
	5	178.77	5.20E+01	62.35	1.88E-02	1.45E-03
	6	186.21	1.70E+02	74.57	1.83E-02	1.42E-03
	7	210.35	5.41E+01	58.18	1.68E-02	1.31E-03
M	8	238.78	6.88E+02	65.45	1.52E-02	1.18E-03
m	9	241.94	2.02E+02	70.21	1.51E-02	1.17E-03
	10	270.50	7.66E+01	54.33	1.38E-02	1.04E-03
M	11	295.41	2.52E+02	44.57	1.28E-02	9.74E-04
m	12	300.38	7.40E+01	44.70	1.26E-02	9.67E-04
	13	327.06	6.11E+01	62.92	1.18E-02	9.29E-04
	14	338.29	1.15E+02	48.29	1.14E-02	9.13E-04
	15	352.08	3.61E+02	61.74	1.11E-02	8.93E-04
	16	463.73	1.22E+02	53.08	8.72E-03	7.65E-04
	17	479.85	2.97E+01	32.80	8.46E-03	7.49E-04
	18	511.01	1.08E+02	38.37	8.01E-03	7.18E-04
	19	536.52	2.98E+01	30.13	7.68E-03	6.93E-04
	20	583.28	1.94E+02	45.78	7.14E-03	6.46E-04
	21	609.64	3.01E+02	44.25	6.87E-03	6.20E-04
	22	632.30	2.85E+01	28.77	6.65E-03	5.97E-04
	23	728.04	6.04E+01	38.41	5.89E-03	5.14E-04
	24	769.24	3.67E+01	28.21	5.61E-03	4.80E-04
	25	776.28	1.37E+01	18.23	5.57E-03	4.74E-04

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	26	795.49	4.91E+01	38.76	5.45E-03	4.58E-04
	27	837.55	3.55E+01	39.73	5.21E-03	4.24E-04
	28	860.56	2.88E+01	25.94	5.10E-03	4.05E-04
	29	911.66	1.30E+02	36.37	4.85E-03	3.72E-04
	30	969.39	4.60E+01	33.23	4.60E-03	3.61E-04
	31	1120.43	7.82E+01	30.15	4.08E-03	3.33E-04
	32	1177.15	4.29E+01	37.68	3.91E-03	3.23E-04
	33	1206.61	2.86E+01	16.97	3.84E-03	3.16E-04
	34	1213.02	1.83E+01	18.09	3.82E-03	3.15E-04
M	35	1422.77	1.47E+01	16.85	3.36E-03	2.75E-04
m	36	1427.41	7.87E+00	9.00	3.35E-03	2.74E-04
	37	1461.25	5.05E+02	46.74	3.29E-03	2.69E-04
	38	1535.93	1.73E+01	10.50	3.17E-03	2.58E-04
	39	1694.96	5.22E+00	7.78	2.94E-03	2.34E-04
	40	1711.64	7.50E+00	8.28	2.92E-03	2.32E-04
	41	1764.82	3.33E+01	17.35	2.86E-03	2.24E-04
	42	1847.05	1.49E+01	11.40	2.77E-03	2.13E-04
	43	1947.50	9.38E+00	9.17	2.67E-03	2.13E-04
	44	1967.22	1.44E+01	9.91	2.65E-03	2.13E-04
	45	2074.72	8.64E+00	8.31	2.56E-03	2.13E-04
	46	2127.59	8.59E+00	8.02	2.52E-03	2.13E-04
	47	2205.12	1.07E+01	14.32	2.46E-03	2.13E-04
	48	2615.26	4.78E+01	14.84	2.24E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
1	46.54	2.02E+02	101.31	4.70E+01	1.10E+01	1.55E+02	1.02E+02
2	62.45	1.92E+02	120.42	5.91E+01	5.02E+01	1.32E+02	1.30E+02
3	76.29	1.09E+03	155.72			1.09E+03	1.56E+02
4	87.80	1.32E+02	91.78	1.28E+01	4.30E+00	1.19E+02	9.19E+01
5	178.77	5.20E+01	62.35			5.20E+01	6.24E+01
6	186.21	1.70E+02	74.57	3.91E+01	6.36E+00	1.31E+02	7.48E+01
7	210.35	5.41E+01	58.18			5.41E+01	5.82E+01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	8	238.78	6.88E+02	65.45	1.27E+01	5.67E+00	6.75E+02	6.57E+01
m	9	241.94	2.02E+02	70.21			2.02E+02	7.02E+01
	10	270.50	7.66E+01	54.33			7.66E+01	5.43E+01
M	11	295.41	2.52E+02	44.57	3.82E+00	5.43E+00	2.48E+02	4.49E+01
m	12	300.38	7.40E+01	44.70			7.40E+01	4.47E+01
	13	327.06	6.11E+01	62.92			6.11E+01	6.29E+01
	14	338.29	1.15E+02	48.29			1.15E+02	4.83E+01
	15	352.08	3.61E+02	61.74	6.42E+00	4.54E+00	3.54E+02	6.19E+01
	16	463.73	1.22E+02	53.08			1.22E+02	5.31E+01
	17	479.85	2.97E+01	32.80			2.97E+01	3.28E+01
	18	511.01	1.08E+02	38.37	5.53E+01	4.60E+00	5.29E+01	3.86E+01
	19	536.52	2.98E+01	30.13			2.98E+01	3.01E+01
	20	583.28	1.94E+02	45.78	2.98E+00	2.89E+00	1.91E+02	4.59E+01
	21	609.64	3.01E+02	44.25	4.69E+00	3.03E+00	2.96E+02	4.44E+01
	22	632.30	2.85E+01	28.77			2.85E+01	2.88E+01
	23	728.04	6.04E+01	38.41			6.04E+01	3.84E+01
	24	769.24	3.67E+01	28.21			3.67E+01	2.82E+01
	25	776.28	1.37E+01	18.23			1.37E+01	1.82E+01
	26	795.49	4.91E+01	38.76			4.91E+01	3.88E+01
	27	837.55	3.55E+01	39.73			3.55E+01	3.97E+01
	28	860.56	2.88E+01	25.94			2.88E+01	2.59E+01
	29	911.66	1.30E+02	36.37	2.75E+00	2.50E+00	1.28E+02	3.65E+01
	30	969.39	4.60E+01	33.23			4.60E+01	3.32E+01
	31	1120.43	7.82E+01	30.15			7.82E+01	3.01E+01
	32	1177.15	4.29E+01	37.68			4.29E+01	3.77E+01
	33	1206.61	2.86E+01	16.97			2.86E+01	1.70E+01
	34	1213.02	1.83E+01	18.09			1.83E+01	1.81E+01
M	35	1422.77	1.47E+01	16.85			1.47E+01	1.69E+01
m	36	1427.41	7.87E+00	9.00			7.87E+00	9.00E+00
	37	1461.25	5.05E+02	46.74			5.05E+02	4.67E+01
	38	1535.93	1.73E+01	10.50			1.73E+01	1.05E+01
	39	1694.96	5.22E+00	7.78			5.22E+00	7.78E+00
	40	1711.64	7.50E+00	8.28			7.50E+00	8.28E+00
	41	1764.82	3.33E+01	17.35			3.33E+01	1.73E+01
	42	1847.05	1.49E+01	11.40			1.49E+01	1.14E+01
	43	1947.50	9.38E+00	9.17			9.38E+00	9.17E+00
	44	1967.22	1.44E+01	9.91			1.44E+01	9.91E+00
	45	2074.72	8.64E+00	8.31			8.64E+00	8.31E+00
	46	2127.59	8.59E+00	8.02			8.59E+00	8.02E+00
	47	2205.12	1.07E+01	14.32			1.07E+01	1.43E+01
	48	2615.26	4.78E+01	14.84			4.78E+01	1.48E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 5:24:12PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.54	2.02E+02	101.31	4.70E+01	1.10E+01	1.55E+02	1.02E+02
	2	62.45	1.92E+02	120.42	5.91E+01	5.02E+01	1.32E+02	1.30E+02
	3	76.29	1.09E+03	155.72			1.09E+03	1.56E+02
	4	87.80	1.32E+02	91.78	1.28E+01	4.30E+00	1.19E+02	9.19E+01
	5	178.77	5.20E+01	62.35			5.20E+01	6.24E+01
	6	186.21	1.70E+02	74.57	3.91E+01	6.36E+00	1.31E+02	7.48E+01
	7	210.35	5.41E+01	58.18			5.41E+01	5.82E+01
M	8	238.78	6.88E+02	65.45	1.27E+01	5.67E+00	6.75E+02	6.57E+01
m	9	241.94	2.02E+02	70.21			2.02E+02	7.02E+01
	10	270.50	7.66E+01	54.33			7.66E+01	5.43E+01
M	11	295.41	2.52E+02	44.57	3.82E+00	5.43E+00	2.48E+02	4.49E+01
m	12	300.38	7.40E+01	44.70			7.40E+01	4.47E+01
	13	327.06	6.11E+01	62.92			6.11E+01	6.29E+01
	14	338.29	1.15E+02	48.29			1.15E+02	4.83E+01
	15	352.08	3.61E+02	61.74	6.42E+00	4.54E+00	3.54E+02	6.19E+01
	16	463.73	1.22E+02	53.08			1.22E+02	5.31E+01
	17	479.85	2.97E+01	32.80			2.97E+01	3.28E+01
	18	511.01	1.08E+02	38.37	5.53E+01	4.60E+00	5.29E+01	3.86E+01
	19	536.52	2.98E+01	30.13			2.98E+01	3.01E+01
	20	583.28	1.94E+02	45.78	2.98E+00	2.89E+00	1.91E+02	4.59E+01
	21	609.64	3.01E+02	44.25	4.69E+00	3.03E+00	2.96E+02	4.44E+01
	22	632.30	2.85E+01	28.77			2.85E+01	2.88E+01
	23	728.04	6.04E+01	38.41			6.04E+01	3.84E+01
	24	769.24	3.67E+01	28.21			3.67E+01	2.82E+01
	25	776.28	1.37E+01	18.23			1.37E+01	1.82E+01
	26	795.49	4.91E+01	38.76			4.91E+01	3.88E+01
	27	837.55	3.55E+01	39.73			3.55E+01	3.97E+01
	28	860.56	2.88E+01	25.94			2.88E+01	2.59E+01
	29	911.66	1.30E+02	36.37	2.75E+00	2.50E+00	1.28E+02	3.65E+01
	30	969.39	4.60E+01	33.23			4.60E+01	3.32E+01
	31	1120.43	7.82E+01	30.15			7.82E+01	3.01E+01
	32	1177.15	4.29E+01	37.68			4.29E+01	3.77E+01
	33	1206.61	2.86E+01	16.97			2.86E+01	1.70E+01
	34	1213.02	1.83E+01	18.09			1.83E+01	1.81E+01
M	35	1422.77	1.47E+01	16.85			1.47E+01	1.69E+01
m	36	1427.41	7.87E+00	9.00			7.87E+00	9.00E+00
	37	1461.25	5.05E+02	46.74			5.05E+02	4.67E+01
	38	1535.93	1.73E+01	10.50			1.73E+01	1.05E+01
	39	1694.96	5.22E+00	7.78			5.22E+00	7.78E+00
	40	1711.64	7.50E+00	8.28			7.50E+00	8.28E+00
	41	1764.82	3.33E+01	17.35			3.33E+01	1.73E+01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
42	1847.05	1.49E+01	11.40			1.49E+01	1.14E+01
43	1947.50	9.38E+00	9.17			9.38E+00	9.17E+00
44	1967.22	1.44E+01	9.91			1.44E+01	9.91E+00
45	2074.72	8.64E+00	8.31			8.64E+00	8.31E+00
46	2127.59	8.59E+00	8.02			8.59E+00	8.02E+00
47	2205.12	1.07E+01	14.32			1.07E+01	1.43E+01
48	2615.26	4.78E+01	14.84			4.78E+01	1.48E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.970	1460.81	*	10.67	1.93E+01	2.41E+00
RB-82	0.986	776.52	*	13.00	5.17E-01	6.89E-01
CD-109	0.992	88.03	*	3.72	1.83E+00	1.43E+00
SN-126	0.991	87.57	*	37.00	1.77E-01	1.38E-01
TL-208	0.969	583.14	*	30.22	1.18E+00	3.04E-01
		860.37	*	4.48	1.69E+00	1.53E+00
		2614.66	*	35.85	7.97E-01	2.59E-01
PB-210	1.000	46.50	*	4.25	3.26E+00	2.17E+00
BI-212	0.676	727.17	*	11.80	1.17E+00	7.48E-01
		1620.62		2.75		
PB-212	0.996	238.63	*	44.60	1.33E+00	1.66E-01
		300.09	*	3.41	2.30E+00	1.40E+00
BI-214	0.978	609.31	*	46.30	1.25E+00	2.18E-01
		1120.29	*	15.10	1.70E+00	6.71E-01
		1764.49	*	15.80	9.87E-01	5.20E-01
		2204.22	*	4.98	1.17E+00	1.57E+00
PB-214	0.995	295.21	*	19.19	1.35E+00	2.65E-01
		351.92	*	37.19	1.15E+00	2.22E-01
RA-224	0.864	240.98	*	3.95	4.56E+00	1.62E+00
RA-226	1.000	186.21	*	3.28	2.92E+00	5.60E+00
AC-228	0.969	338.32	*	11.40	1.18E+00	5.05E-01
		911.07	*	27.70	1.27E+00	3.76E-01
		969.11	*	16.60	8.07E-01	5.86E-01
TH-234	0.893	63.29	*	3.80	2.19E+00	2.16E+00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:12PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.29	3.01424E-01	7.18		
	5	178.77	1.44477E-02	59.94		
	7	210.35	1.50218E-02	53.79	Tol.	CM-243
	10	270.50	2.12696E-02	35.48		
	13	327.06	1.69696E-02	51.49	Sum	
	16	463.73	3.38114E-02	21.80		
	17	479.85	8.24924E-03	55.23	Sum	
	18	511.01	1.46939E-02	36.53		
	19	536.52	8.26608E-03	50.63	Sum	
	22	632.30	7.90868E-03	50.53		
	24	769.24	1.01908E-02	38.45	Sum	
	26	795.49	1.36339E-02	39.48	Sum	
	27	837.55	9.86111E-03	55.96		
	32	1177.15	1.19118E-02	43.93		
	33	1206.61	7.93210E-03	29.71	Sum	
	34	1213.02	5.08267E-03	49.43	Sum	
M	35	1422.77	4.08863E-03	57.25		
m	36	1427.41	2.18638E-03	57.17		
	38	1535.93	4.80556E-03	30.35		
	39	1694.96	1.45062E-03	74.47	S-Esc	
	40	1711.64	2.08333E-03	55.18		
	42	1847.05	4.13889E-03	38.26		
	43	1947.50	2.60684E-03	48.83		
	44	1967.22	3.99510E-03	34.46		
	45	2074.72	2.39899E-03	48.09		
	46	2127.59	2.38636E-03	46.65		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.97	1460.81	*	10.67	1.93E+01	2.41E+00
RB-82	0.98	776.52	*	13.00	5.17E-01	6.89E-01
CD-109	0.99	88.03	*	3.72	1.83E+00	1.43E+00
SN-126	0.99	87.57	*	37.00	1.77E-01	1.38E-01
TL-208	0.96	583.14	*	30.22	1.18E+00	3.04E-01
		860.37	*	4.48	1.69E+00	1.53E+00
		2614.66	*	35.85	7.97E-01	2.59E-01
PB-210	1.00	46.50	*	4.25	3.26E+00	2.17E+00
BI-212	0.67	727.17	*	11.80	1.17E+00	7.48E-01
		1620.62		2.75		
PB-212	0.99	238.63	*	44.60	1.33E+00	1.66E-01
		300.09	*	3.41	2.30E+00	1.40E+00
BI-214	0.97	609.31	*	46.30	1.25E+00	2.18E-01
		1120.29	*	15.10	1.70E+00	6.71E-01
		1764.49	*	15.80	9.87E-01	5.20E-01
		2204.22	*	4.98	1.17E+00	1.57E+00
PB-214	0.99	295.21	*	19.19	1.35E+00	2.65E-01
		351.92	*	37.19	1.15E+00	2.22E-01
RA-224	0.86	240.98	*	3.95	4.56E+00	1.62E+00
RA-226	1.00	186.21	*	3.28	2.92E+00	5.60E+00
AC-228	0.96	338.32	*	11.40	1.18E+00	5.05E-01
		911.07	*	27.70	1.27E+00	3.76E-01
		969.11	*	16.60	8.07E-01	5.86E-01
TH-234	0.89	63.29	*	3.80	2.19E+00	2.16E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.970	1.93E+01	2.41E+00	
	RB-82	0.986	5.17E-01	6.89E-01	
?	CD-109	0.992	1.83E+00	1.43E+00	
?	SN-126	0.991	1.77E-01	1.38E-01	
	TL-208	0.969	9.71E-01	1.96E-01	
	PB-210	1.000	3.26E+00	2.17E+00	
	BI-212	0.676	1.17E+00	7.48E-01	
	PB-212	0.996	1.35E+00	1.65E-01	
	BI-214	0.978	1.25E+00	1.91E-01	
	PB-214	0.995	1.23E+00	1.70E-01	
	RA-224	0.864	4.56E+00	1.62E+00	
	RA-226	1.000	2.92E+00	5.60E+00	
	AC-228	0.969	1.15E+00	2.68E-01	
	TH-234	0.893	2.19E+00	2.16E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 5:24:12PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	3	76.29	3.01424E-01	7.18		
	5	178.77	1.44477E-02	59.94		
	7	210.35	1.50218E-02	53.79	Tol.	CM-243
	10	270.50	2.12696E-02	35.48		
	13	327.06	1.69696E-02	51.49	Sum	
	16	463.73	3.38114E-02	21.80		
	17	479.85	8.24924E-03	55.23	Sum	
	18	511.01	1.46939E-02	36.53		
	19	536.52	8.26608E-03	50.63	Sum	
	22	632.30	7.90868E-03	50.53		
	24	769.24	1.01908E-02	38.45	Sum	
	26	795.49	1.36339E-02	39.48	Sum	
	27	837.55	9.86111E-03	55.96		
	32	1177.15	1.19118E-02	43.93		
	33	1206.61	7.93210E-03	29.71	Sum	
	34	1213.02	5.08267E-03	49.43	Sum	
M	35	1422.77	4.08863E-03	57.25		
m	36	1427.41	2.18638E-03	57.17		
	38	1535.93	4.80556E-03	30.35		
	39	1694.96	1.45062E-03	74.47	S-Esc	
	40	1711.64	2.08333E-03	55.18		
	42	1847.05	4.13889E-03	38.26		
	43	1947.50	2.60684E-03	48.83		
	44	1967.22	3.99510E-03	34.46		
	45	2074.72	2.39899E-03	48.09		
	46	2127.59	2.38636E-03	46.65		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	1.29E-01	1.09E+00	1.09E+00
+	NA-22	1274.54		99.94	1.46E-02	1.22E-01	1.22E-01
+	NA-24	1368.53		99.99	-2.41E+11	2.94E+11	4.22E+11
		2754.09		99.86	0.00E+00		2.94E+11
+	AL-26	1808.65		99.76	4.13E-02	8.67E-02	8.67E-02
+	K-40	1460.81	*	10.67	1.93E+01	9.09E-01	9.09E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.51E-02	7.65E-02	7.65E-02
		78.34		96.00	2.14E-01		9.44E-02
+	SC-46	889.25		99.98	3.36E-03	1.14E-01	1.14E-01
		1120.51		99.99	2.94E-01		2.07E-01
+	V-48	983.52		99.98	1.07E-01	3.12E-01	3.12E-01
		1312.10		97.50	-6.02E-02		3.89E-01
+	CR-51	320.08		9.83	-1.97E-01	1.36E+00	1.36E+00
+	MN-54	834.83		99.97	3.80E-02	1.15E-01	1.15E-01
+	CO-56	846.75		99.96	8.58E-03	1.03E-01	1.03E-01
		1037.75		14.03	2.91E-02		8.79E-01
		1238.25		67.00	1.57E-01		2.66E-01
		1771.40		15.51	-5.09E-02		7.44E-01
		2598.48		16.90	-1.48E-02		3.27E-01
+	CO-57	122.06		85.51	-1.49E-02	6.43E-02	6.43E-02
		136.48		10.60	-2.77E-01		5.16E-01
+	CO-58	810.76		99.40	6.04E-02	1.27E-01	1.27E-01
+	FE-59	1099.22		56.50	-1.11E-01	2.53E-01	2.53E-01
		1291.56		43.20	2.22E-02		4.08E-01
+	CO-60	1173.22		100.00	6.81E-02	1.09E-01	1.17E-01
		1332.49		100.00	-1.29E-03		1.09E-01
+	ZN-65	1115.52		50.75	-3.53E-02	2.26E-01	2.26E-01
+	GA-67	93.31		35.70	6.47E+01	5.27E+01	5.27E+01
		208.95		2.24	3.01E+00		8.51E+02
		300.22		16.00	-4.37E+02		1.27E+02
+	SE-75	121.11		16.70	8.80E-02	9.96E-02	3.65E-01
		136.00		59.20	-5.62E-02		9.96E-02
		264.65		59.80	-2.16E-02		1.27E-01
		279.53		25.20	-1.01E-02		3.08E-01
		400.65		11.40	-1.77E-01		7.42E-01
+	RB-82	776.52	*	13.00	5.17E-01	1.14E+00	1.14E+00
+	RB-83	520.41		46.00	-2.74E-02	2.00E-01	2.00E-01
		529.64		30.30	9.80E-03		2.87E-01
		552.65		16.40	-1.23E-01		5.90E-01
+	KR-85	513.99		0.43	1.86E+00	2.44E+01	2.44E+01
+	SR-85	513.99		99.27	1.07E-02	1.40E-01	1.40E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	Y-88	898.02		93.40	9.89E-03	1.05E-01	1.05E-01
		1836.01		99.38	1.73E-02		1.08E-01
+	NB-93M	16.57		9.43	-4.78E+01	7.96E+01	7.96E+01
+	NB-94	702.63		100.00	4.34E-02	9.88E-02	1.02E-01
		871.10		100.00	-6.88E-03		9.88E-02
+	NB-95	765.79		99.81	4.32E-03	1.73E-01	1.73E-01
+	NB-95M	235.69		25.00	1.05E+01	7.37E+01	7.37E+01
+	ZR-95	724.18		43.70	-1.72E-02	1.98E-01	2.94E-01
		756.72		55.30	5.37E-02		1.98E-01
+	MO-99	181.06		6.20	-1.85E+02	4.80E+02	6.85E+02
		739.58		12.80	-4.72E+01		4.80E+02
		778.00		4.50	-2.65E+02		1.48E+03
+	RU-103	497.08		89.00	-1.06E-02	1.35E-01	1.35E-01
+	RU-106	621.84		9.80	-7.39E-02	9.20E-01	9.20E-01
+	AG-108M	433.93		89.90	-3.34E-02	8.38E-02	8.38E-02
		614.37		90.40	-6.11E-03		1.04E-01
		722.95		90.50	-2.16E-02		8.98E-02
+	CD-109	88.03	*	3.72	1.83E+00	2.29E+00	2.29E+00
+	AG-110M	657.75		93.14	-1.89E-02	9.81E-02	9.81E-02
		677.61		10.53	-4.22E-02		8.53E-01
		706.67		16.46	2.98E-01		6.53E-01
		763.93		21.98	-6.72E-02		4.28E-01
		884.67		71.63	-4.38E-03		1.48E-01
		1384.27		23.94	8.76E-03		5.09E-01
+	CD-113M	263.70		0.02	-1.68E+02	2.79E+02	2.79E+02
+	SN-113	255.12		1.93	1.16E-01	1.36E-01	3.98E+00
		391.69		64.90	6.34E-04		1.36E-01
+	TE123M	159.00		84.10	-1.74E-02	7.22E-02	7.22E-02
+	SB-124	602.71		97.87	-6.31E-02	1.30E-01	1.30E-01
		645.85		7.26	6.29E-02		1.46E+00
		722.78		11.10	-2.38E-01		9.90E-01
		1691.02		49.00	6.97E-03		2.36E-01
+	I-125	35.49		6.49	-1.66E+00	3.11E+00	3.11E+00
+	SB-125	176.33		6.89	6.59E-03	2.83E-01	8.24E-01
		427.89		29.33	1.64E-01		2.83E-01
		463.38		10.35	6.37E-01		9.01E-01
		600.56		17.80	-1.57E-01		5.02E-01
		635.90		11.32	9.97E-02		7.47E-01
+	SB-126	414.70		83.30	-3.19E-01	3.57E-01	3.59E-01
		666.33		99.60	-2.32E-01		3.69E-01
		695.00		99.60	-2.26E-02		3.57E-01
		720.50		53.80	-3.66E-01		6.17E-01
+	SN-126	87.57	*	37.00	1.77E-01	2.22E-01	2.22E-01
+	SB-127	473.00		25.00	-2.33E-01	2.75E+01	3.21E+01
		685.20		35.70	2.38E+00		2.75E+01
		783.80		14.70	-9.79E+00		6.52E+01
+	I-129	29.78		57.00	-1.00E-01	4.77E-01	4.77E-01
		33.60		13.20	6.43E-01		1.37E+00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
		I-129	39.58	7.52	9.63E-01	4.77E-01	1.51E+00
+		I-131	284.30	6.05	-8.14E+00	8.27E-01	1.03E+01
			364.48	81.20	-1.82E-01		8.27E-01
			636.97	7.26	6.15E-01		1.05E+01
			722.89	1.80	-1.04E+01		4.34E+01
+		TE-132	49.72	13.10	-2.81E+02	2.13E+01	1.71E+02
			228.16	88.00	-3.65E+00		2.13E+01
+		BA-133	81.00	33.00	-1.07E-01	1.54E-01	1.90E-01
			302.84	17.80	5.40E-02		4.25E-01
			356.01	60.00	1.18E-02		1.54E-01
+		I-133	529.87	86.30	3.68E+06	1.08E+08	1.08E+08
+		XE-133	81.00	38.00	-2.96E+00	5.28E+00	5.28E+00
+		CS-134	563.23	8.38	-6.79E-01	1.06E-01	9.26E-01
			569.32	15.43	-1.16E-01		5.18E-01
			604.70	97.60	-6.75E-02		1.06E-01
			795.84	85.40	1.25E-01		1.32E-01
			801.93	8.73	-3.60E-02		9.11E-01
+		CS-135	268.24	16.00	9.78E-02	4.89E-01	4.89E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	9.23E-01	3.55E-01	2.97E+00
			163.89	4.61	-1.85E+00		4.62E+00
			176.55	13.56	-1.62E-01		1.64E+00
			273.65	12.66	-3.09E-02		2.32E+00
			340.57	48.50	1.33E-01		7.43E-01
			818.50	99.70	2.04E-02		3.55E-01
			1048.07	79.60	-1.50E-01		5.23E-01
			1235.34	19.70	-1.38E-01		2.75E+00
+		CS-137	661.65	85.12	-5.92E-03	1.03E-01	1.03E-01
+		LA-138	788.74	34.00	3.53E-02	1.52E-01	2.78E-01
			1435.80	66.00	1.64E-02		1.52E-01
+		CE-139	165.85	80.35	1.58E-02	7.91E-02	7.91E-02
+		BA-140	162.64	6.70	-1.52E+00	1.35E+00	3.26E+00
			304.84	4.50	2.89E+00		6.16E+00
			423.70	3.20	-1.68E+00		1.05E+01
			437.55	2.00	1.05E+01		1.68E+01
			537.32	25.00	5.06E-01		1.35E+00
+		LA-140	328.77	20.50	9.29E-01	4.55E-01	1.62E+00
			487.03	45.50	1.78E-01		6.63E-01
			815.85	23.50	-1.83E-01		1.59E+00
			1596.49	95.49	6.80E-02		4.55E-01
+		CE-141	145.44	48.40	1.05E-02	1.98E-01	1.98E-01
+		CE-143	57.36	11.80	3.39E+04	1.33E+05	3.73E+05
			293.26	42.00	2.31E+05		1.33E+05
			664.55	5.20	6.62E+05		1.00E+06
+		CE-144	133.54	10.80	6.05E-04	5.24E-01	5.24E-01
+		PM-144	476.78	42.00	2.56E-02	8.61E-02	1.97E-01
			618.01	98.60	1.11E-02		8.70E-02

Analysis Report for 1508002-06

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PM-144	696.49	99.49	-1.82E-02	8.61E-02	8.61E-02
+	PM-145	36.85	21.70	-2.44E-01	3.34E-01	6.29E-01
		37.36	39.70	1.18E-01		3.34E-01
		42.30	15.10	-4.99E-02		6.57E-01
		72.40	2.31	-6.15E+00		3.70E+00
+	PM-146	453.90	39.94	-3.31E-02	1.78E-01	1.78E-01
		735.90	14.01	-7.19E-02		6.65E-01
		747.13	13.10	1.55E-01		6.78E-01
+	ND-147	91.11	28.90	8.81E-01	1.35E+00	1.35E+00
		531.02	13.10	3.89E-01		2.88E+00
+	PM-149	285.90	3.10	1.83E+03	8.33E+03	8.33E+03
+	EU-152	121.78	20.50	-5.82E-02	2.51E-01	2.51E-01
		244.69	5.40	3.39E-02		1.55E+00
		344.27	19.13	9.92E-02		3.76E-01
		778.89	9.20	-2.26E-01		9.46E-01
		964.01	10.40	3.29E-01		1.16E+00
		1085.78	7.22	-2.57E-02		1.41E+00
		1112.02	9.60	4.10E-01		1.10E+00
		1407.95	14.94	2.17E-01		7.14E-01
+	GD-153	97.43	31.30	-4.38E-02	1.95E-01	1.95E-01
		103.18	22.20	3.96E-02		2.64E-01
+	EU-154	123.07	40.50	-2.44E-02	1.30E-01	1.30E-01
		723.30	19.70	-9.96E-02		4.15E-01
		873.19	11.50	-4.25E-02		8.81E-01
		996.32	10.30	1.64E-01		9.34E-01
		1004.76	17.90	-1.41E-02		5.60E-01
		1274.45	35.50	4.06E-02		3.40E-01
+	EU-155	86.50	30.90	5.67E-02	2.36E-01	2.36E-01
		105.30	20.70	1.13E-01		2.69E-01
+	EU-156	811.77	10.40	1.68E-01	3.01E+00	3.01E+00
		1153.47	7.20	-4.24E-01		5.09E+00
		1230.71	8.90	-1.85E+00		4.30E+00
+	HO-166M	184.41	72.60	1.32E-01	9.69E-02	9.69E-02
		280.45	29.60	-1.77E-02		2.24E-01
		410.94	11.10	2.67E-01		6.79E-01
		711.69	54.10	-2.21E-02		1.59E-01
+	TM-171	66.72	0.14	-1.16E+00	5.25E+01	5.25E+01
+	HF-172	81.75	4.52	2.60E-01	4.82E-01	1.47E+00
		125.81	11.30	-1.81E-01		4.82E-01
+	LU-172	181.53	20.60	-9.11E+00	2.33E+00	4.14E+00
		810.06	16.63	3.18E+00		9.00E+00
		912.12	15.25	3.51E+01		1.72E+01
		1093.66	62.50	-3.90E-02		2.33E+00
+	LU-173	100.72	5.24	-8.58E-01	3.79E-01	1.05E+00
		272.11	21.20	3.67E-01		3.79E-01
+	HF-175	343.40	84.00	3.43E-02	1.12E-01	1.12E-01
+	LU-176	88.34	13.30	5.20E-02	6.98E-02	5.63E-01
		201.83	86.00	1.16E-02		8.11E-02
		306.78	94.00	-1.66E-02		6.98E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	TA-182	67.75		41.20	9.44E-02	2.06E-01	2.06E-01
		1121.30		34.90	8.09E-01		5.59E-01
		1189.05		16.23	4.19E-01		8.79E-01
		1221.41		26.98	2.02E-01		5.66E-01
		1231.02		11.44	-2.06E-01		1.23E+00
+	IR-192	308.46		29.68	-7.98E-02	2.09E-01	2.85E-01
		468.07		48.10	-9.41E-02		2.09E-01
+	HG-203	279.19		77.30	1.79E-02	1.29E-01	1.29E-01
+	BI-207	569.67		97.72	2.36E-02	8.40E-02	8.40E-02
		1063.62		74.90	3.20E-02		1.40E-01
+	TL-208	583.14	*	30.22	1.18E+00	1.93E-01	3.91E-01
		860.37	*	4.48	1.69E+00		2.44E+00
		2614.66	*	35.85	7.97E-01		1.93E-01
+	BI-210M	262.00		45.00	-8.13E-03	1.44E-01	1.44E-01
		300.00		23.00	-1.14E+00		3.33E-01
+	PB-210	46.50	*	4.25	3.26E+00	3.47E+00	3.47E+00
+	PB-211	404.84		2.90	-1.52E+00	2.43E+00	2.43E+00
		831.96		2.90	2.64E-01		3.30E+00
+	BI-212	727.17	*	11.80	1.17E+00	1.17E+00	1.17E+00
		1620.62		2.75	-4.00E-01		2.67E+00
+	PB-212	238.63	*	44.60	1.33E+00	2.55E-01	2.55E-01
		300.09	*	3.41	2.30E+00		3.46E+00
+	BI-214	609.31	*	46.30	1.25E+00	2.05E-01	2.05E-01
		1120.29	*	15.10	1.70E+00		9.33E-01
		1764.49	*	15.80	9.87E-01		7.13E-01
		2204.22	*	4.98	1.17E+00		2.58E+00
+	PB-214	295.21	*	19.19	1.35E+00	2.72E-01	6.03E-01
		351.92	*	37.19	1.15E+00		2.72E-01
+	RN-219	401.80		6.50	-3.58E-01	1.10E+00	1.10E+00
+	RA-223	323.87		3.88	-1.23E+00	1.92E+00	1.92E+00
+	RA-224	240.98	*	3.95	4.56E+00	2.92E+00	2.92E+00
+	RA-225	40.00		31.00	7.80E-01	1.22E+00	1.22E+00
+	RA-226	186.21	*	3.28	2.92E+00	2.68E+00	2.68E+00
+	TH-227	50.10		8.40	-1.62E+00	9.89E-01	9.89E-01
		236.00		11.50	1.48E-01		1.04E+00
		256.20		6.30	5.43E-01		1.06E+00
+	AC-228	338.32	*	11.40	1.18E+00	4.96E-01	7.59E-01
		911.07	*	27.70	1.27E+00		4.96E-01
		969.11	*	16.60	8.07E-01		9.22E-01
+	TH-230	48.44		16.90	3.07E-01	5.59E-01	5.59E-01
		62.85		4.60	2.23E+00		1.79E+00
		67.67		0.37	8.97E+00		1.95E+01
+	PA-231	283.67		1.60	-3.19E+00	3.27E+00	4.06E+00
		302.67		2.30	4.16E-01		3.27E+00
+	TH-231	25.64		14.70	-9.68E-01	1.02E+00	3.45E+00
		84.21		6.40	-2.72E-01		1.02E+00
+	PA-233	311.98		38.60	-2.45E-02	3.46E-01	3.46E-01
+	PA-234	131.20		20.40	2.06E-01	2.78E-01	2.78E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	PA-234	733.99		8.80	1.95E-01	2.78E-01	1.19E+00
		946.00		12.00	3.60E-01		8.14E-01
+	PA-234M	1001.03		0.92	4.85E+00	1.03E+01	1.03E+01
+	TH-234	63.29	*	3.80	2.19E+00	3.53E+00	3.53E+00
+	U-235	143.76		10.50	9.86E-02	5.24E-01	5.24E-01
		163.35		4.70	-4.53E-01		1.13E+00
		205.31		4.70	1.19E-01		1.47E+00
+	NP-237	86.50		12.60	1.38E-01	5.72E-01	5.72E-01
+	NP-239	106.10		22.70	3.00E+02	5.51E+02	5.51E+02
		228.18		10.70	-2.56E+02		1.49E+03
		277.60		14.10	1.60E+02		1.09E+03
+	AM-241	59.54		35.90	-2.84E-01	2.17E-01	2.17E-01
+	AM-243	74.67		66.00	4.18E-01	1.53E-01	1.53E-01
+	CM-243	209.75		3.29	3.96E-01	4.83E-01	2.16E+00
		228.14		10.60	-1.14E-01		6.62E-01
		277.60		14.00	7.12E-02		4.83E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	1.09E+00	1.09E+00	1.29E-01	5.14E-01
	NA-22	1274.54		99.94	1.22E-01	1.22E-01	1.46E-02	5.61E-02
	NA-24	1368.53		99.99	4.22E+11	2.94E+11	-2.41E+11	1.88E+11
		2754.09		99.86	2.94E+11		0.00E+00	1.10E+11
	AL-26	1808.65		99.76	8.67E-02	8.67E-02	4.13E-02	3.69E-02
+	K-40	1460.81	*	10.67	9.09E-01	9.09E-01	1.93E+01	4.03E-01

Analysis Report for 1508002-06

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	7.65E-02	7.65E-02	3.51E-02	3.74E-02
		78.34		96.00	9.44E-02		2.14E-01	4.64E-02
	SC-46	889.25		99.98	1.14E-01	1.14E-01	3.36E-03	5.24E-02
		1120.51		99.99	2.07E-01		2.94E-01	9.78E-02
	V-48	983.52		99.98	3.12E-01	3.12E-01	1.07E-01	1.44E-01
		1312.10		97.50	3.89E-01		-6.02E-02	1.79E-01
	CR-51	320.08		9.83	1.36E+00	1.36E+00	-1.97E-01	6.51E-01
	MN-54	834.83		99.97	1.15E-01	1.15E-01	3.80E-02	5.36E-02
	CO-56	846.75		99.96	1.03E-01	1.03E-01	8.58E-03	4.69E-02
		1037.75		14.03	8.79E-01		2.91E-02	4.02E-01
		1238.25		67.00	2.66E-01		1.57E-01	1.24E-01
		1771.40		15.51	7.44E-01		-5.09E-02	3.20E-01
		2598.48		16.90	3.27E-01		-1.48E-02	1.03E-01
	CO-57	122.06		85.51	6.43E-02	6.43E-02	-1.49E-02	3.11E-02
		136.48		10.60	5.16E-01		-2.77E-01	2.50E-01
	CO-58	810.76		99.40	1.27E-01	1.27E-01	6.04E-02	5.90E-02
	FE-59	1099.22		56.50	2.53E-01	2.53E-01	-1.11E-01	1.15E-01
		1291.56		43.20	4.08E-01		2.22E-02	1.87E-01
	CO-60	1173.22		100.00	1.17E-01	1.09E-01	6.81E-02	5.38E-02
		1332.49		100.00	1.09E-01		-1.29E-03	4.95E-02
	ZN-65	1115.52		50.75	2.26E-01	2.26E-01	-3.53E-02	1.04E-01
	GA-67	93.31		35.70	5.27E+01	5.27E+01	6.47E+01	2.58E+01
		208.95		2.24	8.51E+02		3.01E+00	4.13E+02
		300.22		16.00	1.27E+02		-4.37E+02	6.12E+01
	SE-75	121.11		16.70	3.65E-01	9.96E-02	8.80E-02	1.77E-01
		136.00		59.20	9.96E-02		-5.62E-02	4.82E-02
		264.65		59.80	1.27E-01		-2.16E-02	6.09E-02
		279.53		25.20	3.08E-01		-1.01E-02	1.48E-01
		400.65		11.40	7.42E-01		-1.77E-01	3.52E-01
+	RB-82	776.52	*	13.00	1.14E+00	1.14E+00	5.17E-01	5.17E-01
	RB-83	520.41		46.00	2.00E-01	2.00E-01	-2.74E-02	9.37E-02
		529.64		30.30	2.87E-01		9.80E-03	1.34E-01
		552.65		16.40	5.90E-01		-1.23E-01	2.77E-01
	KR-85	513.99		0.43	2.44E+01	2.44E+01	1.86E+00	1.17E+01
	SR-85	513.99		99.27	1.40E-01	1.40E-01	1.07E-02	6.72E-02
	Y-88	898.02		93.40	1.05E-01	1.05E-01	9.89E-03	4.77E-02
		1836.01		99.38	1.08E-01		1.73E-02	4.64E-02
	NB-93M	16.57		9.43	7.96E+01	7.96E+01	-4.78E+01	3.87E+01
	NB-94	702.63		100.00	1.02E-01	9.88E-02	4.34E-02	4.82E-02
		871.10		100.00	9.88E-02		-6.88E-03	4.58E-02
	NB-95	765.79		99.81	1.73E-01	1.73E-01	4.32E-03	8.12E-02
	NB-95M	235.69		25.00	7.37E+01	7.37E+01	1.05E+01	3.61E+01
	ZR-95	724.18		43.70	2.94E-01	1.98E-01	-1.72E-02	1.38E-01
		756.72		55.30	1.98E-01		5.37E-02	9.11E-02
	MO-99	181.06		6.20	6.85E+02	4.80E+02	-1.85E+02	3.31E+02
		739.58		12.80	4.80E+02		-4.72E+01	2.22E+02
		778.00		4.50	1.48E+03		-2.65E+02	6.85E+02
	RU-103	497.08		89.00	1.35E-01	1.35E-01	-1.06E-02	6.36E-02
	RU-106	621.84		9.80	9.20E-01	9.20E-01	-7.39E-02	4.31E-01
	AG-108M	433.93		89.90	8.38E-02	8.38E-02	-3.34E-02	3.97E-02
		614.37		90.40	1.04E-01		-6.11E-03	4.93E-02
		722.95		90.50	8.98E-02		-2.16E-02	4.15E-02

Analysis Report for 1508002-06

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	CD-109	88.03	*	3.72	2.29E+00	2.29E+00	1.83E+00	1.13E+00
	AG-110M	657.75		93.14	9.81E-02	9.81E-02	-1.89E-02	4.58E-02
		677.61		10.53	8.53E-01		-4.22E-02	3.97E-01
		706.67		16.46	6.53E-01		2.98E-01	3.07E-01
		763.93		21.98	4.28E-01		-6.72E-02	1.98E-01
		884.67		71.63	1.48E-01		-4.38E-03	6.84E-02
		1384.27		23.94	5.09E-01		8.76E-03	2.31E-01
	CD-113M	263.70		0.02	2.79E+02	2.79E+02	-1.68E+02	1.34E+02
	SN-113	255.12		1.93	3.98E+00	1.36E-01	1.16E-01	1.92E+00
		391.69		64.90	1.36E-01		6.34E-04	6.50E-02
	TE123M	159.00		84.10	7.22E-02	7.22E-02	-1.74E-02	3.49E-02
	SB-124	602.71		97.87	1.30E-01	1.30E-01	-6.31E-02	6.12E-02
		645.85		7.26	1.46E+00		6.29E-02	6.77E-01
		722.78		11.10	9.90E-01		-2.38E-01	4.58E-01
		1691.02		49.00	2.36E-01		6.97E-03	1.01E-01
	I-125	35.49		6.49	3.11E+00	3.11E+00	-1.66E+00	1.51E+00
	SB-125	176.33		6.89	8.24E-01	2.83E-01	6.59E-03	3.98E-01
		427.89		29.33	2.83E-01		1.64E-01	1.35E-01
		463.38		10.35	9.01E-01		6.37E-01	4.30E-01
		600.56		17.80	5.02E-01		-1.57E-01	2.36E-01
		635.90		11.32	7.47E-01		9.97E-02	3.49E-01
	SB-126	414.70		83.30	3.59E-01	3.57E-01	-3.19E-01	1.70E-01
		666.33		99.60	3.69E-01		-2.32E-01	1.72E-01
		695.00		99.60	3.57E-01		-2.26E-02	1.66E-01
		720.50		53.80	6.17E-01		-3.66E-01	2.84E-01
+	SN-126	87.57	*	37.00	2.22E-01	2.22E-01	1.77E-01	1.09E-01
	SB-127	473.00		25.00	3.21E+01	2.75E+01	-2.33E-01	1.51E+01
		685.20		35.70	2.75E+01		2.38E+00	1.28E+01
		783.80		14.70	6.52E+01		-9.79E+00	3.01E+01
	I-129	29.78		57.00	4.77E-01	4.77E-01	-1.00E-01	2.32E-01
		33.60		13.20	1.37E+00		6.43E-01	6.64E-01
		39.58		7.52	1.51E+00		9.63E-01	7.31E-01
	I-131	284.30		6.05	1.03E+01	8.27E-01	-8.14E+00	4.96E+00
		364.48		81.20	8.27E-01		-1.82E-01	3.94E-01
		636.97		7.26	1.05E+01		6.15E-01	4.88E+00
		722.89		1.80	4.34E+01		-1.04E+01	2.01E+01
	TE-132	49.72		13.10	1.71E+02	2.13E+01	-2.81E+02	8.33E+01
		228.16		88.00	2.13E+01		-3.65E+00	1.03E+01
	BA-133	81.00		33.00	1.90E-01	1.54E-01	-1.07E-01	9.26E-02
		302.84		17.80	4.25E-01		5.40E-02	2.04E-01
		356.01		60.00	1.54E-01		1.18E-02	7.41E-02
	I-133	529.87		86.30	1.08E+08	1.08E+08	3.68E+06	5.04E+07
	XE-133	81.00		38.00	5.28E+00	5.28E+00	-2.96E+00	2.58E+00
	CS-134	563.23		8.38	9.26E-01	1.06E-01	-6.79E-01	4.33E-01
		569.32		15.43	5.18E-01		-1.16E-01	2.42E-01
		604.70		97.60	1.06E-01		-6.75E-02	5.00E-02
		795.84		85.40	1.32E-01		1.25E-01	6.21E-02
		801.93		8.73	9.11E-01		-3.60E-02	4.16E-01
	CS-135	268.24		16.00	4.89E-01	4.89E-01	9.78E-02	2.36E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.97E+00	3.55E-01	9.23E-01	1.44E+00

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	163.89	4.61	4.62E+00	3.55E-01	-1.85E+00	2.23E+00
	176.55	13.56	1.64E+00		-1.62E-01	7.94E-01
	273.65	12.66	2.32E+00		-3.09E-02	1.12E+00
	340.57	48.50	7.43E-01		1.33E-01	3.58E-01
	818.50	99.70	3.55E-01		2.04E-02	1.64E-01
	1048.07	79.60	5.23E-01		-1.50E-01	2.40E-01
	1235.34	19.70	2.75E+00		-1.38E-01	1.28E+00
CS-137	661.65	85.12	1.03E-01	1.03E-01	-5.92E-03	4.83E-02
LA-138	788.74	34.00	2.78E-01	1.52E-01	3.53E-02	1.29E-01
	1435.80	66.00	1.52E-01		1.64E-02	6.79E-02
CE-139	165.85	80.35	7.91E-02	7.91E-02	1.58E-02	3.82E-02
BA-140	162.64	6.70	3.26E+00	1.35E+00	-1.52E+00	1.58E+00
	304.84	4.50	6.16E+00		2.89E+00	2.95E+00
	423.70	3.20	1.05E+01		-1.68E+00	5.00E+00
	437.55	2.00	1.68E+01		1.05E+01	8.01E+00
	537.32	25.00	1.35E+00		5.06E-01	6.36E-01
LA-140	328.77	20.50	1.62E+00	4.55E-01	9.29E-01	7.76E-01
	487.03	45.50	6.63E-01		1.78E-01	3.12E-01
	815.85	23.50	1.59E+00		-1.83E-01	7.37E-01
	1596.49	95.49	4.55E-01		6.80E-02	2.02E-01
CE-141	145.44	48.40	1.98E-01	1.98E-01	1.05E-02	9.57E-02
CE-143	57.36	11.80	3.73E+05	1.33E+05	3.39E+04	1.82E+05
	293.26	42.00	1.33E+05		2.31E+05	6.47E+04
	664.55	5.20	1.00E+06		6.62E+05	4.69E+05
CE-144	133.54	10.80	5.24E-01	5.24E-01	6.05E-04	2.54E-01
PM-144	476.78	42.00	1.97E-01	8.61E-02	2.56E-02	9.30E-02
	618.01	98.60	8.70E-02		1.11E-02	4.07E-02
	696.49	99.49	8.61E-02		-1.82E-02	3.99E-02
PM-145	36.85	21.70	6.29E-01	3.34E-01	-2.44E-01	3.05E-01
	37.36	39.70	3.34E-01		1.18E-01	1.62E-01
	42.30	15.10	6.57E-01		-4.99E-02	3.19E-01
	72.40	2.31	3.70E+00		-6.15E+00	1.82E+00
PM-146	453.90	39.94	1.78E-01	1.78E-01	-3.31E-02	8.41E-02
	735.90	14.01	6.65E-01		-7.19E-02	3.10E-01
	747.13	13.10	6.78E-01		1.55E-01	3.15E-01
ND-147	91.11	28.90	1.35E+00	1.35E+00	8.81E-01	6.63E-01
	531.02	13.10	2.88E+00		3.89E-01	1.35E+00
PM-149	285.90	3.10	8.33E+03	8.33E+03	1.83E+03	4.00E+03
EU-152	121.78	20.50	2.51E-01	2.51E-01	-5.82E-02	1.22E-01
	244.69	5.40	1.55E+00		3.39E-02	7.54E-01
	344.27	19.13	3.76E-01		9.92E-02	1.79E-01
	778.89	9.20	9.46E-01		-2.26E-01	4.37E-01
	964.01	10.40	1.16E+00		3.29E-01	5.44E-01
	1085.78	7.22	1.41E+00		-2.57E-02	6.46E-01
	1112.02	9.60	1.10E+00		4.10E-01	5.02E-01
	1407.95	14.94	7.14E-01		2.17E-01	3.21E-01
GD-153	97.43	31.30	1.95E-01	1.95E-01	-4.38E-02	9.47E-02
	103.18	22.20	2.64E-01		3.96E-02	1.29E-01
EU-154	123.07	40.50	1.30E-01	1.30E-01	-2.44E-02	6.30E-02
	723.30	19.70	4.15E-01		-9.96E-02	1.92E-01
	873.19	11.50	8.81E-01		-4.25E-02	4.09E-01
	996.32	10.30	9.34E-01		1.64E-01	4.28E-01
	1004.76	17.90	5.60E-01		-1.41E-02	2.57E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-154	1274.45		35.50	3.40E-01	1.30E-01	4.06E-02	1.56E-01
	EU-155	86.50		30.90	2.36E-01	2.36E-01	5.67E-02	1.15E-01
		105.30		20.70	2.69E-01		1.13E-01	1.31E-01
	EU-156	811.77		10.40	3.01E+00	3.01E+00	1.68E-01	1.40E+00
		1153.47		7.20	5.09E+00		-4.24E-01	2.34E+00
		1230.71		8.90	4.30E+00		-1.85E+00	1.97E+00
	HO-166M	184.41		72.60	9.69E-02	9.69E-02	1.32E-01	4.71E-02
		280.45		29.60	2.24E-01		-1.77E-02	1.07E-01
		410.94		11.10	6.79E-01		2.67E-01	3.23E-01
		711.69		54.10	1.59E-01		-2.21E-02	7.37E-02
	TM-171	66.72		0.14	5.25E+01	5.25E+01	-1.16E+00	2.57E+01
	HF-172	81.75		4.52	1.47E+00	4.82E-01	2.60E-01	7.19E-01
		125.81		11.30	4.82E-01		-1.81E-01	2.34E-01
	LU-172	181.53		20.60	4.14E+00	2.33E+00	-9.11E+00	2.00E+00
		810.06		16.63	9.00E+00		3.18E+00	4.19E+00
		912.12		15.25	1.72E+01		3.51E+01	8.24E+00
		1093.66		62.50	2.33E+00		-3.90E-02	1.06E+00
	LU-173	100.72		5.24	1.05E+00	3.79E-01	-8.58E-01	5.11E-01
		272.11		21.20	3.79E-01		3.67E-01	1.83E-01
	HF-175	343.40		84.00	1.12E-01	1.12E-01	3.43E-02	5.37E-02
	LU-176	88.34		13.30	5.63E-01	6.98E-02	5.20E-02	2.76E-01
		201.83		86.00	8.11E-02		1.16E-02	3.93E-02
		306.78		94.00	6.98E-02		-1.66E-02	3.33E-02
	TA-182	67.75		41.20	2.06E-01	2.06E-01	9.44E-02	1.01E-01
		1121.30		34.90	5.59E-01		8.09E-01	2.65E-01
		1189.05		16.23	8.79E-01		4.19E-01	4.06E-01
		1221.41		26.98	5.66E-01		2.02E-01	2.62E-01
		1231.02		11.44	1.23E+00		-2.06E-01	5.68E-01
	IR-192	308.46		29.68	2.85E-01	2.09E-01	-7.98E-02	1.36E-01
		468.07		48.10	2.09E-01		-9.41E-02	9.91E-02
	HG-203	279.19		77.30	1.29E-01	1.29E-01	1.79E-02	6.18E-02
	BI-207	569.67		97.72	8.40E-02	8.40E-02	2.36E-02	3.94E-02
		1063.62		74.90	1.40E-01		3.20E-02	6.42E-02
+	TL-208	583.14	*	30.22	3.91E-01	1.93E-01	1.18E+00	1.87E-01
		860.37	*	4.48	2.44E+00		1.69E+00	1.14E+00
		2614.66	*	35.85	1.93E-01		7.97E-01	7.42E-02
	BI-210M	262.00		45.00	1.44E-01	1.44E-01	-8.13E-03	6.93E-02
		300.00		23.00	3.33E-01		-1.14E+00	1.60E-01
+	PB-210	46.50	*	4.25	3.47E+00	3.47E+00	3.26E+00	1.71E+00
	PB-211	404.84		2.90	2.43E+00	2.43E+00	-1.52E+00	1.15E+00
		831.96		2.90	3.30E+00		2.64E-01	1.53E+00
+	BI-212	727.17	*	11.80	1.17E+00	1.17E+00	1.17E+00	5.57E-01
		1620.62		2.75	2.67E+00		-4.00E-01	1.12E+00
+	PB-212	238.63	*	44.60	2.55E-01	2.55E-01	1.33E+00	1.25E-01
		300.09	*	3.41	3.46E+00		2.30E+00	1.69E+00
+	BI-214	609.31	*	46.30	2.05E-01	2.05E-01	1.25E+00	9.70E-02
		1120.29	*	15.10	9.33E-01		1.70E+00	4.37E-01
		1764.49	*	15.80	7.13E-01		9.87E-01	3.16E-01
		2204.22	*	4.98	2.58E+00		1.17E+00	1.14E+00
+	PB-214	295.21	*	19.19	6.03E-01	2.72E-01	1.35E+00	2.94E-01
		351.92	*	37.19	2.72E-01		1.15E+00	1.32E-01
	RN-219	401.80		6.50	1.10E+00	1.10E+00	-3.58E-01	5.21E-01
	RA-223	323.87		3.88	1.92E+00	1.92E+00	-1.23E+00	9.23E-01

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	RA-224	240.98	*	3.95	2.92E+00	2.92E+00	4.56E+00	1.43E+00
	RA-225	40.00		31.00	1.22E+00	1.22E+00	7.80E-01	5.92E-01
+	RA-226	186.21	*	3.28	2.68E+00	2.68E+00	2.92E+00	1.31E+00
	TH-227	50.10		8.40	9.89E-01	9.89E-01	-1.62E+00	4.81E-01
		236.00		11.50	1.04E+00		1.48E-01	5.08E-01
		256.20		6.30	1.06E+00		5.43E-01	5.09E-01
+	AC-228	338.32	*	11.40	7.59E-01	4.96E-01	1.18E+00	3.66E-01
		911.07	*	27.70	4.96E-01		1.27E+00	2.35E-01
		969.11	*	16.60	9.22E-01		8.07E-01	4.37E-01
	TH-230	48.44		16.90	5.59E-01	5.59E-01	3.07E-01	2.73E-01
		62.85		4.60	1.79E+00		2.23E+00	8.75E-01
		67.67		0.37	1.95E+01		8.97E+00	9.56E+00
	PA-231	283.67		1.60	4.06E+00	3.27E+00	-3.19E+00	1.94E+00
		302.67		2.30	3.27E+00		4.16E-01	1.57E+00
	TH-231	25.64		14.70	3.45E+00	1.02E+00	-9.68E-01	1.68E+00
		84.21		6.40	1.02E+00		-2.72E-01	4.99E-01
	PA-233	311.98		38.60	3.46E-01	3.46E-01	-2.45E-02	1.66E-01
	PA-234	131.20		20.40	2.78E-01	2.78E-01	2.06E-01	1.35E-01
		733.99		8.80	1.19E+00		1.95E-01	5.59E-01
		946.00		12.00	8.14E-01		3.60E-01	3.75E-01
	PA-234M	1001.03		0.92	1.03E+01	1.03E+01	4.85E+00	4.72E+00
+	TH-234	63.29	*	3.80	3.53E+00	3.53E+00	2.19E+00	1.74E+00
	U-235	143.76		10.50	5.24E-01	5.24E-01	9.86E-02	2.54E-01
		163.35		4.70	1.13E+00		-4.53E-01	5.48E-01
		205.31		4.70	1.47E+00		1.19E-01	7.15E-01
	NP-237	86.50		12.60	5.72E-01	5.72E-01	1.38E-01	2.80E-01
	NP-239	106.10		22.70	5.51E+02	5.51E+02	3.00E+02	2.68E+02
		228.18		10.70	1.49E+03		-2.56E+02	7.21E+02
		277.60		14.10	1.09E+03		1.60E+02	5.23E+02
	AM-241	59.54		35.90	2.17E-01	2.17E-01	-2.84E-01	1.06E-01
	AM-243	74.67		66.00	1.53E-01	1.53E-01	4.18E-01	7.54E-02
	CM-243	209.75		3.29	2.16E+00	4.83E-01	3.96E-01	1.05E+00
		228.14		10.60	6.62E-01		-1.14E-01	3.20E-01
		277.60		14.00	4.83E-01		7.12E-02	2.32E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

Analysis Report for 1508002-06

FEEBRIS1D-4 061-062

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-4 061-062

Elapsed Live time: 3600
Elapsed Real Time: 3613

Channel								
1:	0	0	0	0	0	0	0	0
9:	12	167	171	142	126	115	86	84
17:	70	82	73	75	67	69	92	93
25:	84	70	84	71	82	89	80	75
33:	83	76	81	79	63	70	84	87
41:	62	68	62	85	101	126	169	86
49:	88	112	107	85	103	105	92	111
57:	112	111	123	137	129	132	190	197
65:	122	110	136	123	140	146	130	141
73:	122	176	411	249	465	371	110	126
81:	101	107	112	158	143	101	209	169
89:	140	176	132	148	224	170	103	93
97:	96	97	87	89	72	71	85	90
105:	103	84	68	80	83	61	84	71
113:	70	79	76	79	59	69	87	53
121:	82	57	75	72	64	71	80	66
129:	78	92	62	74	84	50	66	61
137:	70	52	55	70	73	55	71	86
145:	66	57	63	54	72	58	53	68
153:	66	64	67	59	48	49	57	55
161:	58	56	50	50	51	63	63	63
169:	64	48	47	58	49	56	47	47
177:	54	64	57	64	51	50	47	52
185:	63	144	101	62	57	52	54	64
193:	39	46	49	57	54	46	43	55
201:	50	47	51	62	43	58	36	41
209:	50	64	52	53	47	37	50	55
217:	36	49	55	40	50	40	39	57
225:	42	36	41	54	36	45	40	32
233:	50	43	29	45	48	159	454	143
241:	72	141	65	38	32	37	33	32
249:	29	32	19	28	26	35	26	43
257:	26	30	33	35	21	19	26	20
265:	46	34	26	27	38	49	63	38
273:	25	29	29	28	29	31	27	27
281:	26	26	23	26	27	26	21	40
289:	32	21	30	31	21	40	128	130
297:	37	22	28	50	45	28	14	25
305:	27	24	22	24	15	19	30	23
313:	21	27	29	25	25	15	21	29
321:	26	18	29	27	27	23	36	47
329:	31	22	28	21	25	19	20	23
337:	29	71	65	27	20	16	23	31
345:	27	15	21	19	24	19	60	237
353:	127	20	18	19	22	25	11	23
361:	11	19	20	15	19	25	19	14

369:	25	21	17	19	23	18	16	16

Sample Title: FEEBRIS1D-4 061-062

Channel								
377:	17	19	11	22	15	16	23	19
385:	20	13	14	18	18	16	24	15
393:	26	21	16	23	21	22	18	18
401:	17	13	17	15	17	17	17	14
409:	19	26	21	14	10	20	12	14
417:	16	15	21	16	17	20	18	23
425:	15	22	21	21	24	19	14	11
433:	10	17	18	21	21	17	16	18
441:	18	14	13	17	12	16	8	12
449:	12	18	8	14	17	14	18	5
457:	14	13	14	18	13	21	27	34
465:	14	23	19	15	18	8	10	16
473:	7	13	17	13	8	17	23	12
481:	18	8	12	11	8	16	9	12
489:	11	17	8	10	15	15	8	21
497:	9	7	20	8	16	11	15	20
505:	12	18	12	7	15	34	62	46
513:	10	12	10	14	12	9	12	13
521:	11	12	9	10	14	7	10	10
529:	9	9	11	12	6	13	12	15
537:	21	9	12	7	8	14	9	12
545:	12	11	11	9	9	17	13	10
553:	7	13	10	8	8	21	12	4
561:	9	11	12	15	13	6	11	14
569:	9	13	10	10	14	6	14	14
577:	6	8	9	14	15	25	83	74
585:	23	10	10	11	7	13	6	10
593:	9	7	8	14	11	10	9	12
601:	19	13	13	9	16	15	9	37
609:	125	138	40	12	6	10	10	7
617:	10	8	13	13	8	10	10	12
625:	10	11	15	6	11	11	9	15
633:	16	10	9	6	7	12	8	9
641:	5	13	9	13	7	10	9	4
649:	6	7	8	8	8	15	8	11
657:	9	8	7	9	15	12	8	12
665:	8	12	12	9	4	6	19	6
673:	10	6	16	10	8	6	10	5
681:	6	12	7	16	5	4	13	8
689:	12	10	4	5	7	11	8	7
697:	7	11	4	15	9	10	14	15
705:	13	12	15	8	11	9	4	10
713:	9	4	12	9	6	8	7	3
721:	11	8	2	8	9	10	26	30
729:	10	12	16	13	16	9	12	11
737:	8	3	6	2	10	10	6	5
745:	11	6	10	6	10	9	7	5
753:	6	6	9	6	5	7	10	5
761:	6	5	8	12	5	8	10	10
769:	23	14	11	8	7	7	10	12
777:	12	3	8	5	4	7	9	8
785:	4	11	5	9	8	6	10	11
793:	8	15	17	16	10	8	8	3

801:	2	5	5	8	7	7	12	8

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Channel								
809:	11	9	8	6	9	10	4	3
817:	10	8	7	8	9	6	2	5
825:	9	7	3	5	7	7	7	6
833:	8	6	15	10	22	5	8	11
841:	13	4	6	6	7	1	6	5
849:	7	6	6	2	5	6	4	4
857:	8	7	5	10	18	8	9	3
865:	8	12	5	6	8	9	8	6
873:	7	11	6	10	8	11	11	5
881:	5	6	8	8	12	10	4	10
889:	5	6	3	7	5	3	6	6
897:	3	5	5	7	3	5	5	5
905:	9	5	8	5	4	19	69	47
913:	15	7	6	7	3	5	8	2
921:	7	8	8	2	8	5	6	1
929:	7	8	5	10	8	13	6	6
937:	4	8	5	3	7	3	8	6
945:	8	9	2	4	9	5	3	9
953:	4	5	6	3	1	5	8	8
961:	6	9	7	14	17	7	10	19
969:	43	27	4	3	7	8	4	7
977:	3	5	4	4	6	6	4	13
985:	5	7	5	5	5	8	1	5
993:	6	8	9	5	4	3	5	8
1001:	4	5	9	5	1	4	9	10
1009:	9	4	7	5	5	6	5	7
1017:	7	4	5	6	5	4	11	3
1025:	5	5	4	6	4	9	4	10
1033:	5	7	7	2	7	7	7	4
1041:	5	3	7	3	3	8	6	5
1049:	8	7	7	10	10	8	3	8
1057:	8	6	3	6	5	8	4	7
1065:	5	8	10	1	6	7	3	5
1073:	5	2	6	7	6	7	2	2
1081:	6	7	6	5	6	5	6	3
1089:	8	4	6	5	3	7	5	4
1097:	6	3	6	2	7	5	8	6
1105:	5	7	1	4	6	6	9	4
1113:	3	8	4	4	6	12	12	34
1121:	30	7	5	6	5	4	7	8
1129:	5	5	4	6	5	7	4	7
1137:	4	6	9	3	7	3	8	7
1145:	5	5	6	7	8	6	4	5
1153:	8	7	7	5	7	4	4	12
1161:	7	4	10	7	7	8	1	7
1169:	2	6	5	8	10	7	6	3
1177:	3	3	6	9	9	10	7	1
1185:	5	10	9	5	8	7	7	3
1193:	4	7	8	6	8	11	8	3
1201:	13	6	3	5	11	10	9	8
1209:	2	2	4	11	9	6	6	4
1217:	5	8	4	5	11	9	9	8
1225:	5	9	6	4	5	9	5	9

1233:	3	10	7	7	9	13	12	8

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Channel								
1241:	7	4	6	3	4	6	11	6
1249:	9	6	3	4	4	6	3	2
1257:	8	5	3	5	7	7	4	4
1265:	5	5	1	7	4	8	2	6
1273:	8	5	3	7	1	2	4	3
1281:	6	4	9	3	5	5	3	7
1289:	2	7	6	1	6	3	4	3
1297:	4	2	6	4	3	4	8	11
1305:	3	9	7	8	4	3	5	3
1313:	4	3	7	4	2	4	3	0
1321:	6	1	4	3	2	3	6	3
1329:	3	3	2	3	4	5	4	4
1337:	2	3	3	3	1	3	5	3
1345:	4	4	3	2	3	5	1	3
1353:	3	4	6	4	3	2	4	2
1361:	6	5	3	3	2	1	3	4
1369:	2	0	3	4	6	2	3	2
1377:	6	4	3	4	3	3	4	2
1385:	4	8	1	3	5	2	1	3
1393:	1	2	1	0	2	1	2	1
1401:	3	1	2	1	0	5	7	7
1409:	4	1	2	0	4	1	0	0
1417:	2	2	1	3	7	1	6	2
1425:	3	2	6	2	1	3	4	1
1433:	1	2	3	2	3	4	3	2
1441:	3	1	0	2	1	2	4	1
1449:	2	1	3	1	1	2	2	0
1457:	2	2	33	158	201	99	16	2
1465:	3	0	2	0	1	4	3	0
1473:	4	3	3	2	0	4	1	2
1481:	2	5	3	1	1	0	0	2
1489:	1	2	1	0	1	0	3	4
1497:	3	2	3	0	3	3	2	1
1505:	2	0	2	2	7	2	2	2
1513:	0	3	3	1	0	2	2	1
1521:	1	3	2	3	0	3	1	2
1529:	0	0	2	2	1	2	0	5
1537:	2	3	3	0	1	0	2	1
1545:	1	1	1	2	1	0	3	0
1553:	1	2	3	0	1	4	0	1
1561:	2	2	1	0	0	2	1	3
1569:	1	2	3	1	3	2	1	2
1577:	1	2	1	1	0	0	1	3
1585:	3	0	1	7	2	2	3	3
1593:	4	2	1	1	3	1	2	4
1601:	2	1	1	1	0	1	1	1
1609:	2	0	1	1	0	1	0	0
1617:	2	0	0	2	3	0	2	0
1625:	1	3	1	0	1	2	2	3
1633:	1	1	0	2	1	2	0	1
1641:	0	0	0	2	1	0	3	1
1649:	2	2	0	1	1	0	1	1
1657:	0	1	0	1	3	1	0	3

1665:	3	1	0	0	2	1	0	0

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Channel								
1673:	1	1	0	0	1	0	0	1
1681:	1	3	2	2	2	0	2	0
1689:	1	1	0	1	0	3	4	0
1697:	0	1	0	0	0	0	1	1
1705:	0	3	0	1	0	2	4	2
1713:	1	1	0	0	4	1	1	0
1721:	1	2	1	2	0	3	1	1
1729:	3	2	5	1	3	0	3	3
1737:	0	0	1	0	2	1	3	1
1745:	2	1	0	0	3	0	0	0
1753:	1	0	0	0	1	1	1	0
1761:	5	1	4	11	11	5	3	2
1769:	1	2	1	2	0	0	2	0
1777:	2	1	0	1	2	0	1	0
1785:	1	1	1	1	0	0	2	2
1793:	2	0	0	0	1	2	0	0
1801:	2	0	0	2	1	1	1	2
1809:	0	3	1	0	0	0	0	0
1817:	1	0	1	3	3	1	5	2
1825:	4	0	2	0	0	3	2	1
1833:	4	1	2	0	1	1	0	2
1841:	0	1	4	0	1	3	6	2
1849:	3	0	0	3	1	0	0	0
1857:	1	0	2	1	1	0	0	0
1865:	0	0	0	2	2	0	0	0
1873:	3	2	0	1	1	0	0	2
1881:	0	0	1	1	0	2	0	2
1889:	2	2	0	1	1	0	1	1
1897:	0	0	0	1	2	0	1	1
1905:	0	1	1	3	0	3	1	2
1913:	3	1	2	0	1	2	0	0
1921:	1	0	2	1	0	0	2	2
1929:	0	1	1	0	0	0	1	2
1937:	0	0	1	3	0	0	2	0
1945:	0	3	5	0	3	0	0	0
1953:	1	0	0	0	1	3	0	0
1961:	0	1	0	2	3	3	1	2
1969:	1	4	0	1	0	0	0	1
1977:	0	0	1	1	0	0	1	0
1985:	1	0	2	0	1	1	0	0
1993:	1	0	1	1	2	1	0	1
2001:	1	0	1	0	2	0	1	1
2009:	1	0	0	1	0	1	1	0
2017:	1	0	0	0	1	2	0	1
2025:	1	0	2	0	0	2	3	1
2033:	1	0	1	2	0	1	0	1
2041:	0	0	0	1	0	0	1	0
2049:	0	1	1	3	0	1	4	0
2057:	2	1	1	0	0	2	0	1
2065:	0	0	1	0	0	1	1	0
2073:	1	2	2	3	1	0	1	0
2081:	1	0	0	0	0	0	1	0
2089:	0	1	1	0	1	0	1	0

2097:	1	1	0	1	0	2	2	2

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Channel								
2105:	0	1	1	0	0	1	1	0
2113:	1	1	2	0	1	2	0	1
2121:	3	0	0	0	1	4	1	3
2129:	1	1	0	1	1	1	0	1
2137:	0	0	1	4	1	1	1	1
2145:	1	0	0	1	0	0	0	0
2153:	0	2	0	1	2	0	1	2
2161:	1	0	0	0	2	1	0	1
2169:	1	2	0	3	0	0	1	0
2177:	0	1	1	1	1	0	1	0
2185:	0	1	1	1	2	1	0	2
2193:	0	0	1	0	3	1	2	2
2201:	1	0	1	7	5	1	1	0
2209:	0	1	2	0	0	1	1	1
2217:	0	2	0	0	0	2	1	3
2225:	1	3	1	0	1	1	2	1
2233:	1	0	3	0	1	2	0	1
2241:	1	0	0	0	1	1	1	2
2249:	1	1	0	1	2	0	1	1
2257:	0	1	1	2	0	0	1	1
2265:	0	0	0	1	0	1	1	1
2273:	1	1	1	0	0	1	0	0
2281:	2	1	1	0	0	0	0	1
2289:	2	3	0	1	1	1	0	3
2297:	2	1	2	1	0	3	2	0
2305:	0	1	1	1	0	0	1	3
2313:	1	1	3	1	1	3	2	1
2321:	0	0	0	2	0	1	0	2
2329:	0	0	1	0	0	0	1	0
2337:	1	0	1	0	0	1	0	1
2345:	1	0	1	2	1	2	1	0
2353:	0	1	0	2	1	0	0	1
2361:	1	2	1	0	1	0	0	1
2369:	0	0	2	0	1	2	1	1
2377:	2	0	1	0	1	1	0	1
2385:	2	0	2	1	2	1	0	3
2393:	0	0	1	1	0	0	1	2
2401:	0	0	0	0	1	2	0	0
2409:	1	1	0	0	0	1	0	0
2417:	1	0	2	0	0	0	1	0
2425:	1	0	0	1	1	1	0	1
2433:	1	0	2	0	2	1	1	2
2441:	1	1	0	0	1	0	2	0
2449:	1	2	0	0	0	0	1	0
2457:	0	0	0	0	0	0	0	0
2465:	0	0	0	3	0	0	1	1
2473:	0	1	2	0	1	2	1	1
2481:	0	1	1	0	0	0	2	0
2489:	1	0	1	0	1	0	2	0
2497:	1	0	0	0	0	1	1	0
2505:	1	0	0	0	1	2	0	0
2513:	1	1	0	0	1	1	1	0
2521:	0	0	1	0	0	1	0	0

2529:	0	0	1	0	3	0	2	1

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Channel								
2537:	0	1	0	0	0	0	1	1
2545:	0	0	1	0	0	0	1	1
2553:	1	0	1	0	0	0	1	0
2561:	2	0	1	0	0	0	1	1
2569:	0	1	0	0	1	2	0	0
2577:	0	0	0	0	1	0	0	0
2585:	0	0	0	1	0	1	0	1
2593:	1	0	0	1	0	0	0	0
2601:	0	0	0	0	0	0	0	0
2609:	0	0	0	4	7	13	14	9
2617:	3	0	1	1	1	0	0	0
2625:	0	0	1	0	0	1	0	1
2633:	0	0	0	0	0	0	0	1
2641:	0	0	0	0	1	0	1	0
2649:	0	0	0	0	1	2	1	0
2657:	0	0	0	0	0	0	1	0
2665:	0	0	0	0	0	1	0	0
2673:	0	0	0	0	0	0	1	1
2681:	0	2	0	0	1	0	1	0
2689:	0	1	0	1	1	0	1	0
2697:	0	0	0	0	0	0	0	2
2705:	0	0	0	0	0	0	0	0
2713:	0	1	0	1	0	1	0	0
2721:	0	0	0	1	0	0	0	0
2729:	1	0	0	0	0	0	1	0
2737:	0	0	0	1	0	0	0	0
2745:	0	0	1	0	0	0	0	1
2753:	0	1	0	1	0	0	1	0
2761:	0	1	0	0	0	0	0	0
2769:	0	0	0	1	0	0	0	1
2777:	0	1	0	0	0	0	0	0
2785:	0	0	0	0	0	0	0	1
2793:	0	0	0	0	0	0	0	1
2801:	0	1	0	0	0	1	0	0
2809:	1	0	2	0	0	0	0	0
2817:	1	0	0	0	0	1	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	1	0	0	0	0	0	0	1
2849:	0	0	0	0	1	0	0	1
2857:	0	0	0	0	0	0	0	0
2865:	1	0	0	1	0	0	0	0
2873:	0	0	0	1	0	0	0	0
2881:	0	1	0	0	0	0	1	0
2889:	0	1	0	1	0	0	0	0
2897:	0	0	0	0	0	0	1	0
2905:	0	0	0	1	0	0	0	1
2913:	0	0	0	0	0	1	1	0
2921:	0	0	1	0	0	0	0	0
2929:	0	0	0	0	0	0	1	1
2937:	0	1	0	0	0	0	0	0
2945:	1	0	1	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	0	1	0	0	0	0	0	1

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Channel								
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	2	0
2985:	0	0	0	1	1	0	0	0
2993:	1	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	1	0	0	0	1	1	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	1	0	0	0	0	1	2	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	1	1	0	0	0	0
3065:	1	0	0	0	0	1	0	0
3073:	0	1	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	1	0	0	0	1	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	2	1	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	1	0	0	0	0
3137:	0	1	0	0	0	0	0	0
3145:	0	0	0	0	0	0	1	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	1	0	1	0	0	0	0	0
3177:	0	0	1	0	0	1	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	2	0	1	0
3201:	1	1	0	0	0	0	0	0
3209:	0	0	0	1	0	0	0	0
3217:	0	1	0	1	1	2	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	1	0	0	0	0	0
3249:	0	0	1	1	0	1	0	0
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	1	0	0	0
3273:	0	1	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	0	2	0	0	0
3305:	0	0	0	0	0	0	0	0
3313:	0	0	0	0	1	0	0	0
3321:	0	0	1	0	0	0	0	0
3329:	0	0	0	0	1	0	0	0
3337:	0	0	2	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	1	0	0	0	0	0	0
3369:	0	0	0	0	1	0	1	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	1	0	0	0	0	0

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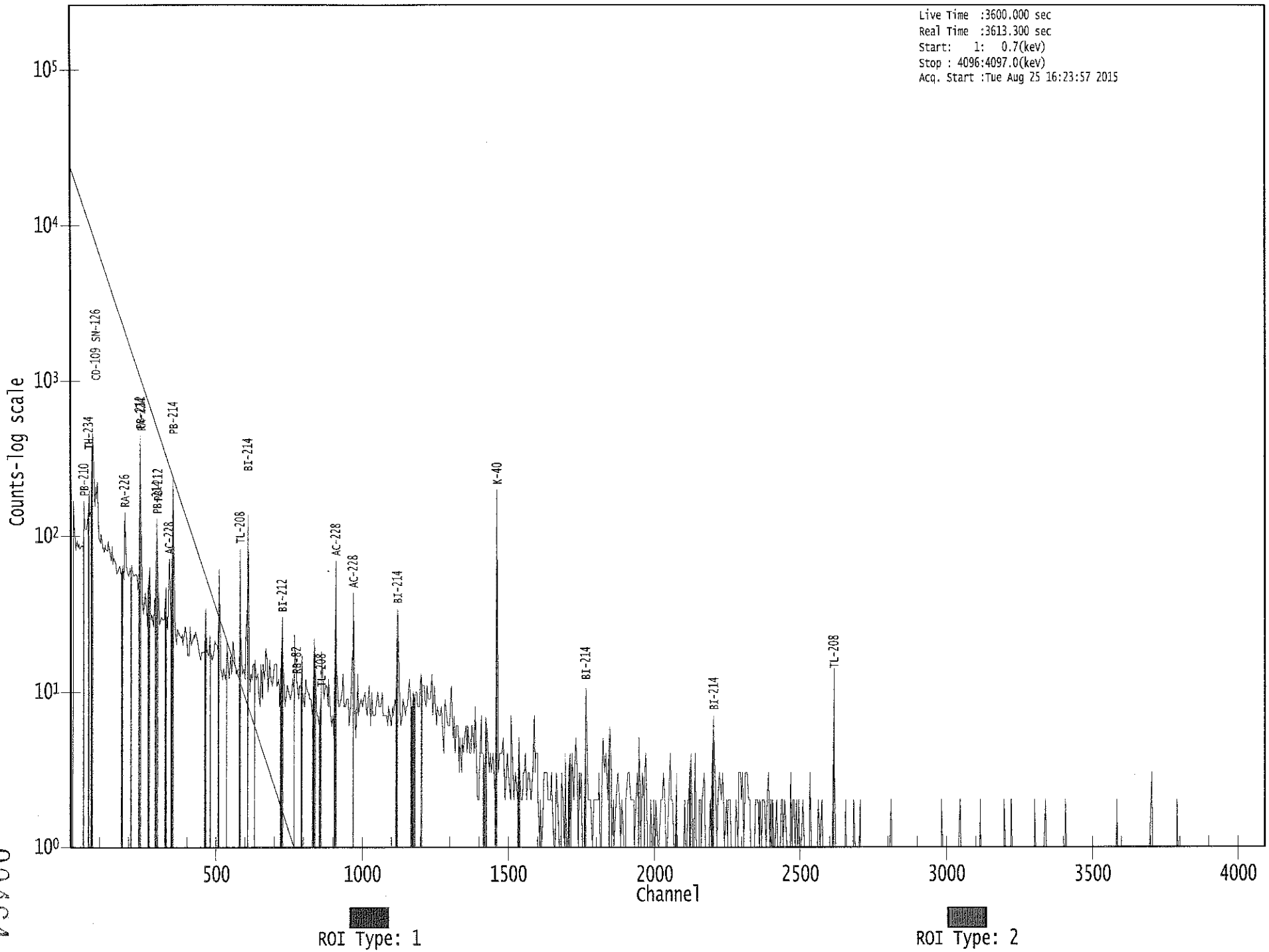
Channel								
3401:	0	0	0	0	1	0	2	0
3409:	0	1	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	1	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	1	0	0	0
3457:	0	0	1	0	0	0	0	0
3465:	0	1	0	0	0	0	0	0
3473:	0	0	0	1	0	0	1	0
3481:	0	0	0	0	0	0	1	1
3489:	0	1	0	0	1	0	0	1
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	1	0	0	0
3513:	0	0	1	1	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	1	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	1	0	0	0	0
3561:	0	0	1	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	2
3585:	0	0	0	0	0	0	0	0
3593:	0	1	0	0	0	0	1	0
3601:	0	0	0	0	0	0	1	0
3609:	0	0	1	0	1	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	1	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	1	0	0	0	1	0
3665:	0	1	0	0	0	0	1	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	1
3697:	0	0	1	0	0	1	0	3
3705:	0	0	0	0	0	0	0	0
3713:	1	0	0	0	0	0	0	0
3721:	0	0	0	1	0	0	0	0
3729:	0	0	0	0	0	1	1	0
3737:	0	0	0	0	0	0	0	0
3745:	1	0	0	0	0	0	0	0
3753:	0	1	0	0	0	0	1	0
3761:	0	0	0	0	0	1	0	0
3769:	0	0	0	1	0	0	0	0
3777:	0	0	1	0	1	0	0	0
3785:	0	0	0	0	0	0	2	0
3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	1	0	1	0	0	0	0	0
3817:	0	0	0	0	0	0	0	1

3825:	1	0	0	0	1	0	0	0

Sample Title: FEEBRIS1D-4 061-062

Channel								
3833:	0	0	0	0	0	0	1	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	1	0	0	0
3865:	0	0	0	0	0	0	1	1
3873:	0	0	0	0	0	0	0	1
3881:	0	0	0	0	0	0	1	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	1	0	0	0	0	0
3913:	0	0	1	0	1	0	0	0
3921:	0	0	0	0	0	1	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	1	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	1	0	1	0	0	0	0
4033:	0	0	0	0	1	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	1	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	1	0	0	0	0
4089:	0	0	1	1	0	1	0	0

0000026410.CNF



00464

Apex-Gamma

Analysis Report for 1508002-07
FEEBRIS1D-4 064-065

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-07
Sample Description	: FEEBRIS1D-4 064-065
Sample Type	: SOIL
Sample Size	: 6.083E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:39:09AM
Acquisition Started	: 8/25/2015 5:17:19PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 8 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26416

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:17:24PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.41	46.52	0.0000	0.00
2	76.39	76.48	0.0000	0.00
3	88.10	88.19	0.0000	0.00
4	93.50	93.58	0.0000	0.00
5	104.47	104.54	0.0000	0.00
6	209.73	209.74	0.0000	0.00
7	238.82	238.82	0.0000	0.00
8	242.20	242.19	0.0000	0.00
9	269.98	269.96	0.0000	0.00
10	295.19	295.16	0.0000	0.00
11	300.38	300.34	0.0000	0.00
12	328.18	328.12	0.0000	0.00
13	338.44	338.38	0.0000	0.00
14	349.21	349.14	0.0000	0.00
15	352.05	351.99	0.0000	0.00
16	409.12	409.03	0.0000	0.00
17	438.74	438.64	0.0000	0.00
18	507.38	507.24	0.0000	0.00
19	511.06	510.92	0.0000	0.00
20	579.34	579.17	0.0000	0.00
21	583.33	583.15	0.0000	0.00
22	609.56	609.37	0.0000	0.00
23	625.36	625.16	0.0000	0.00
24	660.52	660.30	0.0000	0.00
25	671.40	671.18	0.0000	0.00
26	675.05	674.82	0.0000	0.00
27	727.75	727.50	0.0000	0.00
28	769.12	768.86	0.0000	0.00
29	784.82	784.54	0.0000	0.00
30	795.32	795.04	0.0000	0.00
31	804.88	804.60	0.0000	0.00
32	911.60	911.28	0.0000	0.00
33	969.11	968.76	0.0000	0.00
34	1119.59	1119.19	0.0000	0.00
35	1205.75	1205.31	0.0000	0.00
36	1216.33	1215.89	0.0000	0.00
37	1220.83	1220.39	0.0000	0.00
38	1238.45	1238.00	0.0000	0.00
39	1266.95	1266.49	0.0000	0.00
40	1377.62	1377.12	0.0000	0.00
41	1408.02	1407.52	0.0000	0.00
42	1461.14	1460.62	0.0000	0.00

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1465.21	1464.68	0.0000	0.00
44	1509.86	1509.33	0.0000	0.00
45	1610.09	1609.52	0.0000	0.00
46	1730.16	1729.56	0.0000	0.00
47	1765.11	1764.50	0.0000	0.00
48	1803.34	1802.73	0.0000	0.00
49	1847.88	1847.25	0.0000	0.00
50	2155.56	2154.88	0.0000	0.00
51	2206.07	2205.38	0.0000	0.00
52	2614.98	2614.24	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.41	44 -	49	46.52	1.36E+02	68.69	8.19E+02	2.07
	2	76.39	72 -	81	76.48	6.60E+02	122.11	1.74E+03	3.52
	3	88.10	86 -	91	88.19	1.41E+02	76.77	1.07E+03	3.30
	4	93.50	91 -	97	93.58	1.44E+02	82.09	1.06E+03	1.21
	5	104.47	102 -	107	104.54	6.69E+01	59.33	6.54E+02	3.21
	6	209.73	206 -	213	209.74	5.46E+01	61.87	5.97E+02	1.93
M	7	238.82	235 -	245	238.82	4.60E+02	59.75	3.34E+02	1.55
m	8	242.20	235 -	245	242.19	1.17E+02	46.75	3.39E+02	1.56
	9	269.98	267 -	274	269.96	4.71E+01	53.96	4.58E+02	1.54
	10	295.19	292 -	299	295.16	1.74E+02	58.21	4.59E+02	1.48
	11	300.38	299 -	303	300.34	2.91E+01	33.69	2.22E+02	1.12
	12	328.18	326 -	331	328.12	3.24E+01	34.81	2.17E+02	2.31
	13	338.44	335 -	342	338.38	8.23E+01	50.52	3.67E+02	1.90
M	14	349.21	348 -	359	349.14	2.06E+01	18.82	8.82E+01	1.57
m	15	352.05	348 -	359	351.99	3.72E+02	47.98	1.64E+02	1.58
	16	409.12	406 -	413	409.03	3.51E+01	37.68	2.16E+02	3.94
	17	438.74	435 -	441	438.64	3.05E+01	30.50	1.47E+02	1.46
M	18	507.38	505 -	516	507.24	3.11E+01	22.91	7.53E+01	2.84
m	19	511.06	505 -	516	510.92	1.60E+02	41.82	1.68E+02	2.85
M	20	579.34	578 -	590	579.17	1.54E+01	11.18	2.86E+01	1.84
m	21	583.33	578 -	590	583.15	1.47E+02	32.94	9.78E+01	1.84
	22	609.56	604 -	614	609.37	3.19E+02	55.56	2.41E+02	1.91
	23	625.36	621 -	629	625.16	2.59E+01	29.37	1.16E+02	1.91
	24	660.52	656 -	663	660.30	2.43E+01	27.28	1.07E+02	1.82
M	25	671.40	670 -	678	671.18	1.36E+01	10.54	3.17E+01	1.93
m	26	675.05	670 -	678	674.82	1.87E+01	21.61	7.49E+01	1.94
	27	727.75	724 -	730	727.50	2.46E+01	26.84	1.09E+02	1.27
	28	769.12	765 -	773	768.86	2.61E+01	31.30	1.34E+02	2.14
	29	784.82	781 -	788	784.54	1.99E+01	25.14	9.22E+01	2.88
	30	795.32	791 -	801	795.04	4.15E+01	27.27	7.70E+01	2.36
	31	804.88	801 -	810	804.60	3.28E+01	23.58	6.24E+01	4.29
	32	911.60	907 -	915	911.28	1.22E+02	35.25	1.13E+02	1.42
	33	969.11	966 -	972	968.76	5.44E+01	28.07	9.51E+01	1.35
	34	1119.59	1114 -	1124	1119.19	6.84E+01	33.18	1.11E+02	2.23
	35	1205.75	1201 -	1209	1205.31	2.83E+01	24.50	7.15E+01	3.69
M	36	1216.33	1210 -	1223	1215.89	2.12E+01	23.99	6.66E+01	2.88
m	37	1220.83	1210 -	1223	1220.39	1.51E+01	21.63	7.07E+01	4.02
	38	1238.45	1235 -	1243	1238.00	3.65E+01	27.22	9.51E+01	2.81
	39	1266.95	1263 -	1270	1266.49	2.00E+01	15.62	2.61E+01	5.00
	40	1377.62	1373 -	1382	1377.12	2.80E+01	17.00	2.60E+01	2.29

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	41	1408.02	1405 -	1411	1407.52	8.76E+00	11.37	1.65E+01	1.54
M	42	1461.14	1453 -	1467	1460.62	6.15E+02	51.01	3.17E+01	2.26
m	43	1465.21	1453 -	1467	1464.68	1.40E+01	39.02	2.18E+01	2.23
	44	1509.86	1504 -	1514	1509.33	1.70E+01	13.81	1.61E+01	5.44
	45	1610.09	1606 -	1612	1609.52	6.38E+00	6.65	3.25E+00	3.02
	46	1730.16	1726 -	1733	1729.56	7.42E+00	10.00	1.12E+01	1.05
	47	1765.11	1760 -	1770	1764.50	4.17E+01	19.27	2.67E+01	2.07
	48	1803.34	1799 -	1806	1802.73	1.10E+01	6.63	0.00E+00	3.88
	49	1847.88	1843 -	1849	1847.25	6.50E+00	9.21	1.10E+01	1.43
	50	2155.56	2151 -	2158	2154.88	1.05E+01	9.38	7.00E+00	3.77
	51	2206.07	2199 -	2215	2205.38	3.09E+01	14.43	6.29E+00	4.26
	52	2614.98	2610 -	2618	2614.24	6.59E+01	17.10	4.22E+00	2.81

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.41	44 -	49	1.36E+02	68.69	8.19E+02	5.31E+01
	2	76.39	72 -	81	6.60E+02	122.11	1.74E+03	1.33E+02
	3	88.10	86 -	91	1.41E+02	76.77	1.07E+03	6.00E+01
	4	93.50	91 -	97	1.44E+02	82.09	1.06E+03	6.45E+01
	5	104.47	102 -	107	6.69E+01	59.33	6.54E+02	4.69E+01
	6	209.73	206 -	213	5.46E+01	61.87	5.97E+02	4.94E+01
M	7	238.82	235 -	245	4.60E+02	59.75	3.34E+02	3.00E+01
m	8	242.20	235 -	245	1.17E+02	46.75	3.39E+02	3.02E+01
	9	269.98	267 -	274	4.71E+01	53.96	4.58E+02	4.29E+01
	10	295.19	292 -	299	1.74E+02	58.21	4.59E+02	4.27E+01
	11	300.38	299 -	303	2.91E+01	33.69	2.22E+02	2.62E+01
	12	328.18	326 -	331	3.24E+01	34.81	2.17E+02	2.70E+01
	13	338.44	335 -	342	8.23E+01	50.52	3.67E+02	3.88E+01
M	14	349.21	348 -	359	2.06E+01	18.82	8.82E+01	1.54E+01
m	15	352.05	348 -	359	3.72E+02	47.98	1.64E+02	2.10E+01
	16	409.12	406 -	413	3.51E+01	37.68	2.16E+02	2.94E+01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	17	438.74	435 -	441	3.05E+01	30.50	1.47E+02	2.34E+01
M	18	507.38	505 -	516	3.11E+01	22.91	7.53E+01	1.43E+01
m	19	511.06	505 -	516	1.60E+02	41.82	1.68E+02	2.13E+01
M	20	579.34	578 -	590	1.54E+01	11.18	2.86E+01	8.79E+00
m	21	583.33	578 -	590	1.47E+02	32.94	9.78E+01	1.63E+01
	22	609.56	604 -	614	3.19E+02	55.56	2.41E+02	3.50E+01
	23	625.36	621 -	629	2.59E+01	29.37	1.16E+02	2.26E+01
	24	660.52	656 -	663	2.43E+01	27.28	1.07E+02	2.09E+01
M	25	671.40	670 -	678	1.36E+01	10.54	3.17E+01	9.26E+00
m	26	675.05	670 -	678	1.87E+01	21.61	7.49E+01	1.42E+01
	27	727.75	724 -	730	2.46E+01	26.84	1.09E+02	2.05E+01
	28	769.12	765 -	773	2.61E+01	31.30	1.34E+02	2.43E+01
	29	784.82	781 -	788	1.99E+01	25.14	9.22E+01	1.93E+01
	30	795.32	791 -	801	4.15E+01	27.27	7.70E+01	1.98E+01
	31	804.88	801 -	810	3.28E+01	23.58	6.24E+01	1.69E+01
	32	911.60	907 -	915	1.22E+02	35.25	1.13E+02	2.25E+01
	33	969.11	966 -	972	5.44E+01	28.07	9.51E+01	1.96E+01
	34	1119.59	1114 -	1124	6.84E+01	33.18	1.11E+02	2.36E+01
	35	1205.75	1201 -	1209	2.83E+01	24.50	7.15E+01	1.81E+01
M	36	1216.33	1210 -	1223	2.12E+01	23.99	6.66E+01	1.34E+01
m	37	1220.83	1210 -	1223	1.51E+01	21.63	7.07E+01	1.38E+01
	38	1238.45	1235 -	1243	3.65E+01	27.22	9.51E+01	2.01E+01
	39	1266.95	1263 -	1270	2.00E+01	15.62	2.61E+01	1.05E+01
	40	1377.62	1373 -	1382	2.80E+01	17.00	2.60E+01	1.09E+01
	41	1408.02	1405 -	1411	8.76E+00	11.37	1.65E+01	7.98E+00
M	42	1461.14	1453 -	1467	6.15E+02	51.01	3.17E+01	9.26E+00
m	43	1465.21	1453 -	1467	1.40E+01	39.02	2.18E+01	7.67E+00
	44	1509.86	1504 -	1514	1.70E+01	13.81	1.61E+01	9.11E+00
	45	1610.09	1606 -	1612	6.38E+00	6.65	3.25E+00	3.56E+00
	46	1730.16	1726 -	1733	7.42E+00	10.00	1.12E+01	6.89E+00
	47	1765.11	1760 -	1770	4.17E+01	19.27	2.67E+01	1.18E+01
	48	1803.34	1799 -	1806	1.10E+01	6.63	0.00E+00	0.00E+00
	49	1847.88	1843 -	1849	6.50E+00	9.21	1.10E+01	6.30E+00
	50	2155.56	2151 -	2158	1.05E+01	9.38	7.00E+00	5.58E+00
	51	2206.07	2199 -	2215	3.09E+01	14.43	6.29E+00	7.57E+00
	52	2614.98	2610 -	2618	6.59E+01	17.10	4.22E+00	4.40E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.41	44 -	49	46.52	1.36E+02	68.69	8.19E+02	PB-210
	2	76.39	72 -	81	76.48	6.60E+02	122.11	1.74E+03	.....
	3	88.10	86 -	91	88.19	1.41E+02	76.77	1.07E+03	CD-109
									LU-176
									SN-126
	4	93.50	91 -	97	93.58	1.44E+02	82.09	1.06E+03	GA-67
	5	104.47	102 -	107	104.54	6.69E+01	59.33	6.54E+02	EU-155
	6	209.73	206 -	213	209.74	5.46E+01	61.87	5.97E+02	CM-243
									GA-67
M	7	238.82	235 -	245	238.82	4.60E+02	59.75	3.34E+02	PB-212
m	8	242.20	235 -	245	242.19	1.17E+02	46.75	3.39E+02	.....
	9	269.98	267 -	274	269.96	4.71E+01	53.96	4.58E+02	.....
	10	295.19	292 -	299	295.16	1.74E+02	58.21	4.59E+02	PB-214
	11	300.38	299 -	303	300.34	2.91E+01	33.69	2.22E+02	GA-67
									PB-212
									BI-210M
	12	328.18	326 -	331	328.12	3.24E+01	34.81	2.17E+02	LA-140
	13	338.44	335 -	342	338.38	8.23E+01	50.52	3.67E+02	AC-228
M	14	349.21	348 -	359	349.14	2.06E+01	18.82	8.82E+01	.....
m	15	352.05	348 -	359	351.99	3.72E+02	47.98	1.64E+02	PB-214
	16	409.12	406 -	413	409.03	3.51E+01	37.68	2.16E+02	.....
	17	438.74	435 -	441	438.64	3.05E+01	30.50	1.47E+02	.....
M	18	507.38	505 -	516	507.24	3.11E+01	22.91	7.53E+01	.....
m	19	511.06	505 -	516	510.92	1.60E+02	41.82	1.68E+02	.....
M	20	579.34	578 -	590	579.17	1.54E+01	11.18	2.86E+01	.....
m	21	583.33	578 -	590	583.15	1.47E+02	32.94	9.78E+01	TL-208
	22	609.56	604 -	614	609.37	3.19E+02	55.56	2.41E+02	BI-214
	23	625.36	621 -	629	625.16	2.59E+01	29.37	1.16E+02	.....
	24	660.52	656 -	663	660.30	2.43E+01	27.28	1.07E+02	.....
M	25	671.40	670 -	678	671.18	1.36E+01	10.54	3.17E+01	.....
m	26	675.05	670 -	678	674.82	1.87E+01	21.61	7.49E+01	.....
	27	727.75	724 -	730	727.50	2.46E+01	26.84	1.09E+02	BI-212
	28	769.12	765 -	773	768.86	2.61E+01	31.30	1.34E+02	.....
	29	784.82	781 -	788	784.54	1.99E+01	25.14	9.22E+01	.....
	30	795.32	791 -	801	795.04	4.15E+01	27.27	7.70E+01	CS-134
	31	804.88	801 -	810	804.60	3.28E+01	23.58	6.24E+01	.....
	32	911.60	907 -	915	911.28	1.22E+02	35.25	1.13E+02	LU-172
									AC-228
	33	969.11	966 -	972	968.76	5.44E+01	28.07	9.51E+01	AC-228
	34	1119.59	1114 -	1124	1119.19	6.84E+01	33.18	1.11E+02	BI-214
									SC-46

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	35	1205.75	1201 -	1209	1205.31	2.83E+01	24.50	7.15E+01	.....
M	36	1216.33	1210 -	1223	1215.89	2.12E+01	23.99	6.66E+01	.....
m	37	1220.83	1210 -	1223	1220.39	1.51E+01	21.63	7.07E+01	TA-182
	38	1238.45	1235 -	1243	1238.00	3.65E+01	27.22	9.51E+01	CO-56
	39	1266.95	1263 -	1270	1266.49	2.00E+01	15.62	2.61E+01	.....
	40	1377.62	1373 -	1382	1377.12	2.80E+01	17.00	2.60E+01	.....
	41	1408.02	1405 -	1411	1407.52	8.76E+00	11.37	1.65E+01	EU-152
M	42	1461.14	1453 -	1467	1460.62	6.15E+02	51.01	3.17E+01	K-40
m	43	1465.21	1453 -	1467	1464.68	1.40E+01	39.02	2.18E+01	.....
	44	1509.86	1504 -	1514	1509.33	1.70E+01	13.81	1.61E+01	.....
	45	1610.09	1606 -	1612	1609.52	6.38E+00	6.65	3.25E+00	.....
	46	1730.16	1726 -	1733	1729.56	7.42E+00	10.00	1.12E+01	.....
	47	1765.11	1760 -	1770	1764.50	4.17E+01	19.27	2.67E+01	BI-214
	48	1803.34	1799 -	1806	1802.73	1.10E+01	6.63	0.00E+00	.....
	49	1847.88	1843 -	1849	1847.25	6.50E+00	9.21	1.10E+01	.....
	50	2155.56	2151 -	2158	2154.88	1.05E+01	9.38	7.00E+00	.....
	51	2206.07	2199 -	2215	2205.38	3.09E+01	14.43	6.29E+00	.....
	52	2614.98	2610 -	2618	2614.24	6.59E+01	17.10	4.22E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	46.41	1.36E+02	68.69	1.33E-02	1.68E-03
	2	76.39	6.60E+02	122.11	2.74E-02	3.35E-03
	3	88.10	1.41E+02	76.77	2.84E-02	4.50E-03
	4	93.50	1.44E+02	82.09	2.85E-02	4.26E-03
	5	104.47	6.69E+01	59.33	2.81E-02	3.77E-03
	6	209.73	5.46E+01	61.87	1.95E-02	1.63E-03
M	7	238.82	4.60E+02	59.75	1.79E-02	1.60E-03
m	8	242.20	1.17E+02	46.75	1.77E-02	1.60E-03
	9	269.98	4.71E+01	53.96	1.64E-02	1.57E-03
	10	295.19	1.74E+02	58.21	1.55E-02	1.48E-03
	11	300.38	2.91E+01	33.69	1.53E-02	1.46E-03
	12	328.18	3.24E+01	34.81	1.44E-02	1.32E-03

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	13	338.44	8.23E+01	50.52	1.41E-02	1.27E-03
M	14	349.21	2.06E+01	18.82	1.38E-02	1.22E-03
m	15	352.05	3.72E+02	47.98	1.37E-02	1.21E-03
	16	409.12	3.51E+01	37.68	1.24E-02	1.00E-03
	17	438.74	3.05E+01	30.50	1.18E-02	9.72E-04
M	18	507.38	3.11E+01	22.91	1.06E-02	9.02E-04
m	19	511.06	1.60E+02	41.82	1.06E-02	8.98E-04
M	20	579.34	1.54E+01	11.18	9.63E-03	8.29E-04
m	21	583.33	1.47E+02	32.94	9.58E-03	8.25E-04
	22	609.56	3.19E+02	55.56	9.27E-03	7.98E-04
	23	625.36	2.59E+01	29.37	9.09E-03	7.82E-04
	24	660.52	2.43E+01	27.28	8.72E-03	7.46E-04
M	25	671.40	1.36E+01	10.54	8.61E-03	7.39E-04
m	26	675.05	1.87E+01	21.61	8.57E-03	7.37E-04
	27	727.75	2.46E+01	26.84	8.08E-03	7.03E-04
	28	769.12	2.61E+01	31.30	7.74E-03	6.76E-04
	29	784.82	1.99E+01	25.14	7.61E-03	6.66E-04
	30	795.32	4.15E+01	27.27	7.53E-03	6.59E-04
	31	804.88	3.28E+01	23.58	7.46E-03	6.53E-04
	32	911.60	1.22E+02	35.25	6.74E-03	5.86E-04
	33	969.11	5.44E+01	28.07	6.41E-03	5.57E-04
	34	1119.59	6.84E+01	33.18	5.71E-03	4.80E-04
	35	1205.75	2.83E+01	24.50	5.38E-03	4.68E-04
M	36	1216.33	2.12E+01	23.99	5.34E-03	4.73E-04
m	37	1220.83	1.51E+01	21.63	5.33E-03	4.75E-04
	38	1238.45	3.65E+01	27.22	5.27E-03	4.83E-04
	39	1266.95	2.00E+01	15.62	5.18E-03	4.96E-04
	40	1377.62	2.80E+01	17.00	4.87E-03	5.08E-04
	41	1408.02	8.76E+00	11.37	4.79E-03	4.95E-04
M	42	1461.14	6.15E+02	51.01	4.67E-03	4.73E-04
m	43	1465.21	1.40E+01	39.02	4.66E-03	4.71E-04
	44	1509.86	1.70E+01	13.81	4.57E-03	4.53E-04
	45	1610.09	6.38E+00	6.65	4.39E-03	4.11E-04
	46	1730.16	7.42E+00	10.00	4.23E-03	3.62E-04
	47	1765.11	4.17E+01	19.27	4.18E-03	3.47E-04
	48	1803.34	1.10E+01	6.63	4.14E-03	3.31E-04
	49	1847.88	6.50E+00	9.21	4.10E-03	3.18E-04
	50	2155.56	1.05E+01	9.38	3.94E-03	3.18E-04
	51	2206.07	3.09E+01	14.43	3.93E-03	3.18E-04
	52	2614.98	6.59E+01	17.10	4.05E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.41	1.36E+02	68.69	7.29E+01	8.80E+00	6.27E+01	6.92E+01
	2	76.39	6.60E+02	122.11			6.60E+02	1.22E+02
	3	88.10	1.41E+02	76.77	6.84E+00	1.23E+00	1.34E+02	7.68E+01
	4	93.50	1.44E+02	82.09	6.54E+01	3.76E+00	7.82E+01	8.22E+01
	5	104.47	6.69E+01	59.33			6.69E+01	5.93E+01
	6	209.73	5.46E+01	61.87			5.46E+01	6.19E+01
M	7	238.82	4.60E+02	59.75	1.43E+01	7.07E+00	4.46E+02	6.02E+01
m	8	242.20	1.17E+02	46.75			1.17E+02	4.67E+01
	9	269.98	4.71E+01	53.96	1.77E+00	6.25E+00	4.54E+01	5.43E+01
	10	295.19	1.74E+02	58.21	9.61E+00	5.92E+00	1.64E+02	5.85E+01
	11	300.38	2.91E+01	33.69			2.91E+01	3.37E+01
	12	328.18	3.24E+01	34.81			3.24E+01	3.48E+01
	13	338.44	8.23E+01	50.52			8.23E+01	5.05E+01
M	14	349.21	2.06E+01	18.82			2.06E+01	1.88E+01
m	15	352.05	3.72E+02	47.98	1.56E+01	5.52E+00	3.57E+02	4.83E+01
	16	409.12	3.51E+01	37.68			3.51E+01	3.77E+01
	17	438.74	3.05E+01	30.50			3.05E+01	3.05E+01
M	18	507.38	3.11E+01	22.91			3.11E+01	2.29E+01
m	19	511.06	1.60E+02	41.82	8.01E+01	5.53E+00	8.02E+01	4.22E+01
M	20	579.34	1.54E+01	11.18			1.54E+01	1.12E+01
m	21	583.33	1.47E+02	32.94	6.24E+00	3.96E+00	1.41E+02	3.32E+01
	22	609.56	3.19E+02	55.56	1.38E+01	3.84E+00	3.05E+02	5.57E+01
	23	625.36	2.59E+01	29.37			2.59E+01	2.94E+01
	24	660.52	2.43E+01	27.28			2.43E+01	2.73E+01
M	25	671.40	1.36E+01	10.54			1.36E+01	1.05E+01
m	26	675.05	1.87E+01	21.61			1.87E+01	2.16E+01
	27	727.75	2.46E+01	26.84			2.46E+01	2.68E+01
	28	769.12	2.61E+01	31.30			2.61E+01	3.13E+01
	29	784.82	1.99E+01	25.14			1.99E+01	2.51E+01
	30	795.32	4.15E+01	27.27			4.15E+01	2.73E+01
	31	804.88	3.28E+01	23.58			3.28E+01	2.36E+01
	32	911.60	1.22E+02	35.25	7.18E+00	2.77E+00	1.15E+02	3.54E+01
	33	969.11	5.44E+01	28.07			5.44E+01	2.81E+01
	34	1119.59	6.84E+01	33.18			6.84E+01	3.32E+01
	35	1205.75	2.83E+01	24.50			2.83E+01	2.45E+01
M	36	1216.33	2.12E+01	23.99			2.12E+01	2.40E+01
m	37	1220.83	1.51E+01	21.63			1.51E+01	2.16E+01
	38	1238.45	3.65E+01	27.22	1.77E+00	2.41E+00	3.47E+01	2.73E+01
	39	1266.95	2.00E+01	15.62			2.00E+01	1.56E+01
	40	1377.62	2.80E+01	17.00			2.80E+01	1.70E+01
	41	1408.02	8.76E+00	11.37			8.76E+00	1.14E+01
M	42	1461.14	6.15E+02	51.01	1.14E+01	2.53E+00	6.04E+02	5.11E+01
m	43	1465.21	1.40E+01	39.02			1.40E+01	3.90E+01
	44	1509.86	1.70E+01	13.81			1.70E+01	1.38E+01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
45	1610.09	6.38E+00	6.65			6.38E+00	6.65E+00
46	1730.16	7.42E+00	10.00			7.42E+00	1.00E+01
47	1765.11	4.17E+01	19.27	3.50E+00	2.20E+00	3.82E+01	1.94E+01
48	1803.34	1.10E+01	6.63			1.10E+01	6.63E+00
49	1847.88	6.50E+00	9.21			6.50E+00	9.21E+00
50	2155.56	1.05E+01	9.38			1.05E+01	9.38E+00
51	2206.07	3.09E+01	14.43			3.09E+01	1.44E+01
52	2614.98	6.59E+01	17.10	8.08E+00	1.71E+00	5.78E+01	1.72E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:17:24PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	46.41	1.36E+02	68.69	7.29E+01	8.80E+00	6.27E+01	6.92E+01
	2	76.39	6.60E+02	122.11			6.60E+02	1.22E+02
	3	88.10	1.41E+02	76.77	6.84E+00	1.23E+00	1.34E+02	7.68E+01
	4	93.50	1.44E+02	82.09	6.54E+01	3.76E+00	7.82E+01	8.22E+01
	5	104.47	6.69E+01	59.33			6.69E+01	5.93E+01
	6	209.73	5.46E+01	61.87			5.46E+01	6.19E+01
M	7	238.82	4.60E+02	59.75	1.43E+01	7.07E+00	4.46E+02	6.02E+01
m	8	242.20	1.17E+02	46.75			1.17E+02	4.67E+01
	9	269.98	4.71E+01	53.96	1.77E+00	6.25E+00	4.54E+01	5.43E+01
	10	295.19	1.74E+02	58.21	9.61E+00	5.92E+00	1.64E+02	5.85E+01
	11	300.38	2.91E+01	33.69			2.91E+01	3.37E+01
	12	328.18	3.24E+01	34.81			3.24E+01	3.48E+01
	13	338.44	8.23E+01	50.52			8.23E+01	5.05E+01
M	14	349.21	2.06E+01	18.82			2.06E+01	1.88E+01
m	15	352.05	3.72E+02	47.98	1.56E+01	5.52E+00	3.57E+02	4.83E+01
	16	409.12	3.51E+01	37.68			3.51E+01	3.77E+01
	17	438.74	3.05E+01	30.50			3.05E+01	3.05E+01
M	18	507.38	3.11E+01	22.91			3.11E+01	2.29E+01
m	19	511.06	1.60E+02	41.82	8.01E+01	5.53E+00	8.02E+01	4.22E+01
M	20	579.34	1.54E+01	11.18			1.54E+01	1.12E+01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	21	583.33	1.47E+02	32.94	6.24E+00	3.96E+00	1.41E+02	3.32E+01
	22	609.56	3.19E+02	55.56	1.38E+01	3.84E+00	3.05E+02	5.57E+01
	23	625.36	2.59E+01	29.37			2.59E+01	2.94E+01
	24	660.52	2.43E+01	27.28			2.43E+01	2.73E+01
M	25	671.40	1.36E+01	10.54			1.36E+01	1.05E+01
m	26	675.05	1.87E+01	21.61			1.87E+01	2.16E+01
	27	727.75	2.46E+01	26.84			2.46E+01	2.68E+01
	28	769.12	2.61E+01	31.30			2.61E+01	3.13E+01
	29	784.82	1.99E+01	25.14			1.99E+01	2.51E+01
	30	795.32	4.15E+01	27.27			4.15E+01	2.73E+01
	31	804.88	3.28E+01	23.58			3.28E+01	2.36E+01
	32	911.60	1.22E+02	35.25	7.18E+00	2.77E+00	1.15E+02	3.54E+01
	33	969.11	5.44E+01	28.07			5.44E+01	2.81E+01
	34	1119.59	6.84E+01	33.18			6.84E+01	3.32E+01
	35	1205.75	2.83E+01	24.50			2.83E+01	2.45E+01
M	36	1216.33	2.12E+01	23.99			2.12E+01	2.40E+01
m	37	1220.83	1.51E+01	21.63			1.51E+01	2.16E+01
	38	1238.45	3.65E+01	27.22	1.77E+00	2.41E+00	3.47E+01	2.73E+01
	39	1266.95	2.00E+01	15.62			2.00E+01	1.56E+01
	40	1377.62	2.80E+01	17.00			2.80E+01	1.70E+01
	41	1408.02	8.76E+00	11.37			8.76E+00	1.14E+01
M	42	1461.14	6.15E+02	51.01	1.14E+01	2.53E+00	6.04E+02	5.11E+01
m	43	1465.21	1.40E+01	39.02			1.40E+01	3.90E+01
	44	1509.86	1.70E+01	13.81			1.70E+01	1.38E+01
	45	1610.09	6.38E+00	6.65			6.38E+00	6.65E+00
	46	1730.16	7.42E+00	10.00			7.42E+00	1.00E+01
	47	1765.11	4.17E+01	19.27	3.50E+00	2.20E+00	3.82E+01	1.94E+01
	48	1803.34	1.10E+01	6.63			1.10E+01	6.63E+00
	49	1847.88	6.50E+00	9.21			6.50E+00	9.21E+00
	50	2155.56	1.05E+01	9.38			1.05E+01	9.38E+00
	51	2206.07	3.09E+01	14.43			3.09E+01	1.44E+01
	52	2614.98	6.59E+01	17.10	8.08E+00	1.71E+00	5.78E+01	1.72E+01

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.983	1460.81	*	10.67	1.49E+01	2.00E+00
GA-67	0.716	93.31	*	35.70	2.54E+01	9.54E+01
		208.95	*	2.24	4.13E+02	1.49E+03
		300.22	*	16.00	3.93E+01	1.49E+02
CD-109	0.999	88.03	*	3.72	1.63E+00	9.72E-01
SN-126	0.955	87.57	*	37.00	1.58E-01	9.35E-02
TL-208	0.882	583.14	*	30.22	6.02E-01	1.51E-01
		860.37		4.48		
		2614.66	*	35.85	4.91E-01	1.51E-01
PB-210	0.999	46.50	*	4.25	1.37E+00	1.52E+00
BI-212	0.723	727.17	*	11.80	3.19E-01	3.48E-01
		1620.62		2.75		
PB-212	0.993	238.63	*	44.60	6.90E-01	1.12E-01
		300.09	*	3.41	6.89E-01	8.00E-01
BI-214	0.897	609.31	*	46.30	8.77E-01	1.77E-01
		1120.29	*	15.10	9.80E-01	4.82E-01
		1764.49	*	15.80	7.13E-01	3.67E-01
		2204.22		4.98		
PB-214	0.998	295.21	*	19.19	6.82E-01	2.52E-01
		351.92	*	37.19	8.63E-01	1.39E-01
AC-228	0.977	338.32	*	11.40	6.32E-01	3.92E-01
		911.07	*	27.70	7.62E-01	2.43E-01
		969.11	*	16.60	6.31E-01	3.30E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:17:24PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.39	1.83358E-01	9.25		
	5	104.47	1.85956E-02	44.31	Tol.	EU-155
m	8	242.20	3.24636E-02	20.00		
	9	269.98	1.26005E-02	59.88		
	12	328.18	9.00709E-03	53.68	Tol.	LA-140
M	14	349.21	5.73518E-03	45.58		

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Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	16	409.12	9.74456E-03	53.71		
	17	438.74	8.47222E-03	50.01	D-Esc	
M	18	507.38	8.64244E-03	36.82		
m	19	511.06	2.22819E-02	26.30	Sum	
M	20	579.34	4.28005E-03	36.28		
	23	625.36	7.19246E-03	56.71		
	24	660.52	6.74680E-03	56.15		
M	25	671.40	3.78413E-03	38.67	Sum	
m	26	675.05	5.20140E-03	57.70		
	28	769.12	7.25806E-03	59.89		
	29	784.82	5.52609E-03	63.18		
	30	795.32	1.15278E-02	32.85	Tol.	CS-134
	31	804.88	9.10590E-03	35.97		
	35	1205.75	7.85156E-03	43.34		
M	36	1216.33	5.89326E-03	56.55		
m	37	1220.83	4.19835E-03	71.57	Tol.	TA-182
	38	1238.45	9.63865E-03	39.38	Tol.	CO-56
	39	1266.95	5.54293E-03	39.14		
	40	1377.62	7.78455E-03	30.33		
	41	1408.02	2.43464E-03	64.86	Tol.	EU-152
m	43	1465.21	3.87646E-03	139.79		
	44	1509.86	4.71111E-03	40.72		
	45	1610.09	1.77083E-03	52.17		
	46	1730.16	2.06197E-03	67.36		
	48	1803.34	3.05556E-03	30.15		
	49	1847.88	1.80556E-03	70.82	Sum	
	50	2155.56	2.91667E-03	44.67		
	51	2206.07	8.57026E-03	23.39		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield(%)	Activity (pCi/grams)	Activity Uncertainty

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	1.49E+01	2.00E+00
GA-67	0.71	93.31	*	35.70	2.54E+01	9.54E+01
		208.95	*	2.24	4.13E+02	1.49E+03
		300.22	*	16.00	3.93E+01	1.49E+02
CD-109	0.99	88.03	*	3.72	1.63E+00	9.72E-01
SN-126	0.95	87.57	*	37.00	1.58E-01	9.35E-02
TL-208	0.88	583.14	*	30.22	6.02E-01	1.51E-01
		860.37		4.48		
		2614.66	*	35.85	4.91E-01	1.51E-01
PB-210	0.99	46.50	*	4.25	1.37E+00	1.52E+00
BI-212	0.72	727.17	*	11.80	3.19E-01	3.48E-01
		1620.62		2.75		
PB-212	0.99	238.63	*	44.60	6.90E-01	1.12E-01
		300.09	*	3.41	6.89E-01	8.00E-01
BI-214	0.89	609.31	*	46.30	8.77E-01	1.77E-01
		1120.29	*	15.10	9.80E-01	4.82E-01
		1764.49	*	15.80	7.13E-01	3.67E-01
		2204.22		4.98		
PB-214	0.99	295.21	*	19.19	6.82E-01	2.52E-01
		351.92	*	37.19	8.63E-01	1.39E-01
AC-228	0.97	338.32	*	11.40	6.32E-01	3.92E-01
		911.07	*	27.70	7.62E-01	2.43E-01
		969.11	*	16.60	6.31E-01	3.30E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.983	1.49E+01	2.00E+00	
	GA-67	0.716	1.99E+01	7.19E+01	
?	CD-109	0.999	1.63E+00	9.72E-01	
?	SN-126	0.955	1.58E-01	9.35E-02	

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
TL-208	0.882	5.47E-01	1.07E-01	
PB-210	0.999	1.37E+00	1.52E+00	
BI-212	0.723	3.19E-01	3.48E-01	
PB-212	0.993	6.84E-01	1.11E-01	
BI-214	0.897	8.59E-01	1.51E-01	
PB-214	0.998	8.20E-01	1.22E-01	
AC-228	0.977	6.99E-01	1.75E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:17:24PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.39	1.83358E-01	9.25		
	5	104.47	1.85956E-02	44.31	Tol.	EU-155
m	8	242.20	3.24636E-02	20.00		
	9	269.98	1.26005E-02	59.88		
	12	328.18	9.00709E-03	53.68	Tol.	LA-140
M	14	349.21	5.73518E-03	45.58		
	16	409.12	9.74456E-03	53.71		
	17	438.74	8.47222E-03	50.01	D-Esc	
M	18	507.38	8.64244E-03	36.82		
m	19	511.06	2.22819E-02	26.30	Sum	
M	20	579.34	4.28005E-03	36.28		
	23	625.36	7.19246E-03	56.71		
	24	660.52	6.74680E-03	56.15		
M	25	671.40	3.78413E-03	38.67	Sum	
m	26	675.05	5.20140E-03	57.70		
	28	769.12	7.25806E-03	59.89		
	29	784.82	5.52609E-03	63.18		
	30	795.32	1.15278E-02	32.85	Tol.	CS-134
	31	804.88	9.10590E-03	35.97		
	35	1205.75	7.85156E-03	43.34		
M	36	1216.33	5.89326E-03	56.55		
m	37	1220.83	4.19835E-03	71.57	Tol.	TA-182
	38	1238.45	9.63865E-03	39.38	Tol.	CO-56
	39	1266.95	5.54293E-03	39.14		
	40	1377.62	7.78455E-03	30.33		
	41	1408.02	2.43464E-03	64.86	Tol.	EU-152
m	43	1465.21	3.87646E-03	139.79		
	44	1509.86	4.71111E-03	40.72		
	45	1610.09	1.77083E-03	52.17		
	46	1730.16	2.06197E-03	67.36		
	48	1803.34	3.05556E-03	30.15		
	49	1847.88	1.80556E-03	70.82	Sum	
	50	2155.56	2.91667E-03	44.67		
	51	2206.07	8.57026E-03	23.39		

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	2.41E-01	6.34E-01	6.34E-01
+	NA-22	1274.54		99.94	1.27E-02	7.19E-02	7.19E-02
+	NA-24	1368.53		99.99	2.02E+11	1.65E+11	3.04E+11
		2754.09		99.86	1.38E+10		1.65E+11
+	AL-26	1808.65		99.76	4.98E-04	4.49E-02	4.49E-02
+	K-40	1460.81	*	10.67	1.49E+01	1.08E+00	1.08E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	3.09E-03	4.08E-02	4.08E-02
		78.34		96.00	1.86E-01		5.71E-02
+	SC-46	889.25		99.98	2.85E-03	7.41E-02	7.41E-02
		1120.51		99.99	1.41E-01		1.32E-01
+	V-48	983.52		99.98	-1.32E-01	1.94E-01	1.94E-01
		1312.10		97.50	4.47E-02		2.11E-01
+	CR-51	320.08		9.83	-1.43E-02	8.23E-01	8.23E-01
+	MN-54	834.83		99.97	-7.68E-02	6.07E-02	6.07E-02
+	CO-56	846.75		99.96	1.38E-03	7.59E-02	7.59E-02
		1037.75		14.03	2.02E-02		6.01E-01
		1238.25		67.00	1.92E-01		1.88E-01
		1771.40		15.51	3.20E-02		3.81E-01
		2598.48		16.90	6.26E-02		2.74E-01
+	CO-57	122.06		85.51	2.04E-02	4.65E-02	4.65E-02
		136.48		10.60	-3.66E-02		3.96E-01
+	CO-58	810.76		99.40	7.38E-03	6.55E-02	6.55E-02
+	FE-59	1099.22		56.50	3.01E-02	1.94E-01	1.94E-01
		1291.56		43.20	-1.54E-02		2.80E-01
+	CO-60	1173.22		100.00	-2.73E-02	6.37E-02	7.20E-02
		1332.49		100.00	2.39E-03		6.37E-02
+	ZN-65	1115.52		50.75	-1.09E-02	1.63E-01	1.63E-01
+	GA-67	93.31	*	35.70	2.54E+01	4.38E+01	4.38E+01
		208.95	*	2.24	4.13E+02		7.68E+02
		300.22	*	16.00	3.93E+01		7.45E+01
+	SE-75	121.11		16.70	-3.23E-02	7.60E-02	2.54E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	5.16E-03	7.60E-02	7.60E-02
		264.65		59.80	-5.36E-04		8.36E-02
		279.53		25.20	-6.65E-03		2.06E-01
		400.65		11.40	8.04E-02		4.40E-01
+	RB-82	776.52		13.00	4.58E-01	9.47E-01	9.47E-01
+	RB-83	520.41		46.00	-7.64E-02	1.03E-01	1.03E-01
		529.64		30.30	5.87E-02		1.92E-01
		552.65		16.40	-1.10E-01		3.16E-01
+	KR-85	513.99		0.43	-5.62E+00	1.32E+01	1.32E+01
+	SR-85	513.99		99.27	-3.24E-02	7.60E-02	7.60E-02
+	Y-88	898.02		93.40	2.79E-02	6.74E-02	7.12E-02
		1836.01		99.38	7.46E-03		6.74E-02
+	NB-93M	16.57		9.43	-8.28E+03	4.77E+03	4.77E+03
+	NB-94	702.63		100.00	-1.18E-02	5.43E-02	5.43E-02
		871.10		100.00	-1.77E-02		5.47E-02
+	NB-95	765.79		99.81	-4.47E-03	1.14E-01	1.14E-01
+	NB-95M	235.69		25.00	-2.26E+02	3.71E+01	3.71E+01
+	ZR-95	724.18		43.70	-1.85E-03	1.42E-01	2.03E-01
		756.72		55.30	-2.06E-03		1.42E-01
+	MO-99	181.06		6.20	6.65E+01	3.22E+02	5.39E+02
		739.58		12.80	-5.17E+01		3.22E+02
		778.00		4.50	4.73E+02		9.62E+02
+	RU-103	497.08		89.00	-1.18E-02	7.80E-02	7.80E-02
+	RU-106	621.84		9.80	6.71E-02	6.03E-01	6.03E-01
+	AG-108M	433.93		89.90	3.01E-03	4.27E-02	4.27E-02
		614.37		90.40	-6.62E-03		6.76E-02
		722.95		90.50	1.09E-02		6.56E-02
+	CD-109	88.03	*	3.72	1.63E+00	1.49E+00	1.49E+00
+	AG-110M	657.75		93.14	5.96E-03	6.60E-02	6.60E-02
		677.61		10.53	-6.84E-02		5.54E-01
		706.67		16.46	2.06E-01		3.92E-01
		763.93		21.98	-6.72E-02		2.89E-01
		884.67		71.63	1.42E-02		9.19E-02
		1384.27		23.94	1.14E-02		2.37E-01
+	CD-113M	263.70		0.02	3.08E+01	1.87E+02	1.87E+02
+	SN-113	255.12		1.93	-9.37E-01	8.56E-02	2.58E+00
		391.69		64.90	2.46E-02		8.56E-02
+	TE123M	159.00		84.10	2.06E-02	5.58E-02	5.58E-02
+	SB-124	602.71		97.87	3.77E-03	8.09E-02	8.09E-02
		645.85		7.26	-1.76E-01		1.07E+00
		722.78		11.10	1.20E-01		7.23E-01
		1691.02		49.00	4.22E-02		1.50E-01
+	I-125	35.49		6.49	7.44E-01	4.16E+00	4.16E+00
+	SB-125	176.33		6.89	1.32E-03	1.57E-01	6.01E-01
		427.89		29.33	5.44E-02		1.57E-01
		463.38		10.35	2.42E-01		4.86E-01
		600.56		17.80	4.50E-03		3.28E-01
		635.90		11.32	1.18E-01		4.94E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	9.34E-03	2.22E-01	2.22E-01
		666.33		99.60	-5.79E-02		2.43E-01
		695.00		99.60	2.77E-02		2.62E-01
		720.50		53.80	1.34E-01		4.71E-01
+	SN-126	87.57	*	37.00	1.58E-01	1.44E-01	1.44E-01
+	SB-127	473.00		25.00	6.33E-01	1.88E+01	1.98E+01
		685.20		35.70	5.87E+00		1.88E+01
		783.80		14.70	6.90E+00		4.78E+01
+	I-129	29.78		57.00	-3.54E-02	9.49E-01	9.49E-01
		33.60		13.20	9.29E-01		2.05E+00
		39.58		7.52	-1.59E-01		1.73E+00
+	I-131	284.30		6.05	5.44E-01	4.71E-01	6.89E+00
		364.48		81.20	1.90E-02		4.71E-01
		636.97		7.26	-1.75E+00		7.15E+00
		722.89		1.80	5.29E+00		3.18E+01
+	TE-132	49.72		13.10	-2.12E+00	1.28E+01	1.06E+02
		228.16		88.00	-1.60E-01		1.28E+01
+	BA-133	81.00		33.00	1.59E-02	7.44E-02	1.00E-01
		302.84		17.80	-3.32E-02		2.41E-01
		356.01		60.00	-1.64E-01		7.44E-02
+	I-133	529.87		86.30	1.13E+07	7.28E+07	7.28E+07
+	XE-133	81.00		38.00	4.44E-01	2.80E+00	2.80E+00
+	CS-134	563.23		8.38	-3.46E-02	7.37E-02	4.76E-01
		569.32		15.43	5.46E-02		3.10E-01
		604.70		97.60	7.99E-03		7.37E-02
		795.84		85.40	9.24E-02		8.02E-02
		801.93		8.73	-1.35E-01		6.22E-01
+	CS-135	268.24		16.00	-3.77E-02	2.94E-01	2.94E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	1.25E+00	2.18E-01	2.27E+00
		163.89		4.61	1.87E+00		3.43E+00
		176.55		13.56	-2.85E-01		1.20E+00
		273.65		12.66	-2.76E-01		1.42E+00
		340.57		48.50	-1.63E-01		4.28E-01
		818.50		99.70	-5.14E-02		2.18E-01
		1048.07		79.60	1.51E-01		3.46E-01
		1235.34		19.70	1.18E-02		1.84E+00
+	CS-137	661.65		85.12	-4.42E-04	6.85E-02	6.85E-02
+	LA-138	788.74		34.00	5.22E-03	7.70E-02	1.72E-01
		1435.80		66.00	1.06E-02		7.70E-02
+	CE-139	165.85		80.35	4.68E-03	5.63E-02	5.63E-02
+	BA-140	162.64		6.70	-5.05E-01	7.11E-01	2.42E+00
		304.84		4.50	6.40E-02		3.93E+00
		423.70		3.20	-1.87E-01		5.93E+00
		437.55		2.00	2.07E+00		9.47E+00
		537.32		25.00	-6.01E-02		7.11E-01
+	LA-140	328.77		20.50	5.19E-01	2.37E-01	9.46E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03	45.50	-2.34E-03	2.37E-01	4.18E-01
		815.85	23.50	1.70E-01		9.40E-01
		1596.49	95.49	1.03E-01		2.37E-01
+	CE-141	145.44	48.40	6.18E-03	1.44E-01	1.44E-01
+	CE-143	57.36	11.80	-1.95E+04	8.44E+04	2.00E+05
		293.26	42.00	1.56E+04		8.44E+04
		664.55	5.20	-3.59E+04		6.77E+05
+	CE-144	133.54	10.80	-2.96E-01	3.63E-01	3.63E-01
+	PM-144	476.78	42.00	4.47E-02	5.69E-02	1.17E-01
		618.01	98.60	1.31E-02		5.69E-02
		696.49	99.49	8.43E-03		6.23E-02
+	PM-145	36.85	21.70	-3.15E-01	3.89E-01	7.58E-01
		37.36	39.70	-1.62E-01		3.89E-01
		42.30	15.10	4.74E-01		6.82E-01
		72.40	2.31	-6.19E-01		1.66E+00
+	PM-146	453.90	39.94	8.36E-03	1.14E-01	1.14E-01
		735.90	14.01	1.50E-01		4.27E-01
		747.13	13.10	-1.26E-01		4.35E-01
+	ND-147	91.11	28.90	-4.28E-01	9.07E-01	9.07E-01
		531.02	13.10	6.03E-03		1.87E+00
+	PM-149	285.90	3.10	1.27E+03	5.27E+03	5.27E+03
+	EU-152	121.78	20.50	7.99E-02	1.82E-01	1.82E-01
		244.69	5.40	-1.20E-02		8.79E-01
		344.27	19.13	9.18E-02		2.31E-01
		778.89	9.20	2.53E-01		6.26E-01
		964.01	10.40	9.98E-02		7.85E-01
		1085.78	7.22	-8.17E-01		7.34E-01
		1112.02	9.60	1.33E-01		7.23E-01
		1407.95	14.94	1.54E-01		3.98E-01
+	GD-153	97.43	31.30	3.60E-02	1.24E-01	1.24E-01
		103.18	22.20	1.40E-02		1.81E-01
+	EU-154	123.07	40.50	-4.39E-02	8.93E-02	8.93E-02
		723.30	19.70	5.04E-02		3.03E-01
		873.19	11.50	2.43E-02		5.08E-01
		996.32	10.30	-2.05E-01		5.81E-01
		1004.76	17.90	9.52E-02		3.78E-01
		1274.45	35.50	3.53E-02		2.00E-01
+	EU-155	86.50	30.90	-7.58E-02	1.60E-01	1.60E-01
		105.30	20.70	1.96E-01		1.91E-01
+	EU-156	811.77	10.40	-2.69E-01	1.54E+00	1.54E+00
		1153.47	7.20	3.47E-01		3.60E+00
		1230.71	8.90	1.54E+00		3.01E+00
+	HO-166M	184.41	72.60	2.61E-02	7.12E-02	7.12E-02
		280.45	29.60	-4.87E-03		1.51E-01
		410.94	11.10	2.21E-01		4.40E-01
		711.69	54.10	7.22E-02		1.15E-01
+	TM-171	66.72	0.14	1.72E+01	2.91E+01	2.91E+01
+	HF-172	81.75	4.52	-2.96E-01	3.38E-01	7.38E-01
		125.81	11.30	-3.95E-02		3.38E-01

Analysis Report for 1508002-07

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	8.10E-01	1.69E+00	3.30E+00
		810.06		16.63	5.17E-01		4.59E+00
		912.12		15.25	2.29E+01		1.13E+01
		1093.66		62.50	-4.86E-01		1.69E+00
+	LU-173	100.72		5.24	2.97E-02	2.46E-01	7.06E-01
		272.11		21.20	9.43E-02		2.46E-01
+	HF-175	343.40		84.00	3.64E-03	6.82E-02	6.82E-02
+	LU-176	88.34		13.30	4.79E-01	4.66E-02	3.79E-01
		201.83		86.00	-1.43E-03		4.82E-02
		306.78		94.00	-2.05E-03		4.66E-02
+	TA-182	67.75		41.20	8.31E-03	1.10E-01	1.10E-01
		1121.30		34.90	3.45E-01		3.51E-01
		1189.05		16.23	1.06E-01		5.27E-01
		1221.41		26.98	-1.29E-01		3.24E-01
		1231.02		11.44	2.60E-01		8.10E-01
+	IR-192	308.46		29.68	2.83E-02	1.18E-01	1.92E-01
		468.07		48.10	1.57E-02		1.18E-01
+	HG-203	279.19		77.30	-8.89E-03	8.57E-02	8.57E-02
+	BI-207	569.67		97.72	8.43E-03	4.79E-02	4.79E-02
		1063.62		74.90	-2.52E-02		8.50E-02
+	TL-208	583.14	*	30.22	6.02E-01	1.35E-01	2.95E-01
		860.37		4.48	1.15E+00		1.54E+00
		2614.66	*	35.85	4.91E-01		1.35E-01
+	BI-210M	262.00		45.00	-1.28E-02	9.47E-02	9.47E-02
		300.00		23.00	1.58E-01		2.10E-01
+	PB-210	46.50	*	4.25	1.37E+00	2.48E+00	2.48E+00
+	PB-211	404.84		2.90	-1.72E-01	1.37E+00	1.37E+00
		831.96		2.90	8.26E-01		2.16E+00
+	BI-212	727.17	*	11.80	3.19E-01	5.66E-01	5.66E-01
		1620.62		2.75	-1.03E+00		1.54E+00
+	PB-212	238.63	*	44.60	6.90E-01	1.81E-01	1.81E-01
		300.09	*	3.41	6.89E-01		1.31E+00
+	BI-214	609.31	*	46.30	8.77E-01	2.13E-01	2.13E-01
		1120.29	*	15.10	9.80E-01		7.16E-01
		1764.49	*	15.80	7.13E-01		5.10E-01
		2204.22		4.98	1.36E+00		1.72E+00
+	PB-214	295.21	*	19.19	6.82E-01	2.16E-01	3.71E-01
		351.92	*	37.19	8.63E-01		2.16E-01
+	RN-219	401.80		6.50	2.24E-01	6.64E-01	6.64E-01
+	RA-223	323.87		3.88	1.61E-01	1.09E+00	1.09E+00
+	RA-224	240.98		3.95	5.20E+00	2.12E+00	2.12E+00
+	RA-225	40.00		31.00	-1.27E-01	1.38E+00	1.38E+00
+	RA-226	186.21		3.28	2.48E+00	1.59E+00	1.59E+00
+	TH-227	50.10		8.40	-1.21E-02	5.18E-01	6.03E-01
		236.00		11.50	-3.16E+00		5.18E-01
		256.20		6.30	-7.09E-03		6.78E-01
+	AC-228	338.32	*	11.40	6.32E-01	3.23E-01	6.17E-01
		911.07	*	27.70	7.62E-01		3.23E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	6.31E-01	3.23E-01	4.87E-01
+	TH-230	48.44		16.90	-3.24E-01	3.32E-01	3.32E-01
		62.85		4.60	1.25E+00		1.01E+00
		67.67		0.37	7.90E-01		1.04E+01
+	PA-231	283.67		1.60	2.13E-01	1.86E+00	2.70E+00
		302.67		2.30	-2.56E-01		1.86E+00
+	TH-231	25.64		14.70	-8.31E-01	5.46E-01	1.20E+01
		84.21		6.40	3.49E-01		5.46E-01
+	PA-233	311.98		38.60	1.97E-01	2.33E-01	2.33E-01
+	PA-234	131.20		20.40	1.37E-01	1.91E-01	1.91E-01
		733.99		8.80	3.65E-01		6.82E-01
		946.00		12.00	-2.39E-02		5.33E-01
+	PA-234M	1001.03		0.92	-2.24E+00	6.66E+00	6.66E+00
+	TH-234	63.29		3.80	1.50E+00	1.21E+00	1.21E+00
+	U-235	143.76		10.50	1.89E-01	3.84E-01	3.84E-01
		163.35		4.70	-1.74E-01		8.30E-01
		205.31		4.70	5.71E-02		9.21E-01
+	NP-237	86.50		12.60	-1.84E-01	3.89E-01	3.89E-01
+	NP-239	106.10		22.70	-1.18E+02	3.85E+02	3.85E+02
		228.18		10.70	-1.13E+01		8.99E+02
		277.60		14.10	-3.42E+01		7.23E+02
+	AM-241	59.54		35.90	-3.66E-02	1.18E-01	1.18E-01
+	AM-243	74.67		66.00	-1.81E-01	7.41E-02	7.41E-02
+	CM-243	209.75		3.29	4.55E-01	3.17E-01	1.41E+00
		228.14		10.60	-4.95E-03		3.96E-01
		277.60		14.00	-1.50E-02		3.17E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	6.34E-01	6.34E-01	2.41E-01	2.97E-01
	NA-22	1274.54		99.94	7.19E-02	7.19E-02	1.27E-02	3.26E-02
	NA-24	1368.53		99.99	3.04E+11	1.65E+11	2.02E+11	1.36E+11
		2754.09		99.86	1.65E+11		1.38E+10	6.40E+10
	AL-26	1808.65		99.76	4.49E-02	4.49E-02	4.98E-04	1.84E-02
+	K-40	1460.81	*	10.67	1.08E+00	1.08E+00	1.49E+01	5.08E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	4.08E-02	4.08E-02	3.09E-03	1.97E-02
		78.34		96.00	5.71E-02		1.86E-01	2.79E-02
	SC-46	889.25		99.98	7.41E-02	7.41E-02	2.85E-03	3.40E-02
		1120.51		99.99	1.32E-01		1.41E-01	6.26E-02
	V-48	983.52		99.98	1.94E-01	1.94E-01	-1.32E-01	8.86E-02
		1312.10		97.50	2.11E-01		4.47E-02	9.50E-02
	CR-51	320.08		9.83	8.23E-01	8.23E-01	-1.43E-02	3.89E-01
	MN-54	834.83		99.97	6.07E-02	6.07E-02	-7.68E-02	2.79E-02
	CO-56	846.75		99.96	7.59E-02	7.59E-02	1.38E-03	3.50E-02
		1037.75		14.03	6.01E-01		2.02E-02	2.76E-01
		1238.25		67.00	1.88E-01		1.92E-01	8.81E-02
		1771.40		15.51	3.81E-01		3.20E-02	1.58E-01
		2598.48		16.90	2.74E-01		6.26E-02	1.06E-01
	CO-57	122.06		85.51	4.65E-02	4.65E-02	2.04E-02	2.25E-02
		136.48		10.60	3.96E-01		-3.66E-02	1.91E-01
	CO-58	810.76		99.40	6.55E-02	6.55E-02	7.38E-03	2.98E-02
	FE-59	1099.22		56.50	1.94E-01	1.94E-01	3.01E-02	8.95E-02
		1291.56		43.20	2.80E-01		-1.54E-02	1.28E-01
	CO-60	1173.22		100.00	7.20E-02	6.37E-02	-2.73E-02	3.29E-02
		1332.49		100.00	6.37E-02		2.39E-03	2.85E-02
	ZN-65	1115.52		50.75	1.63E-01	1.63E-01	-1.09E-02	7.53E-02
+	GA-67	93.31	*	35.70	4.38E+01	4.38E+01	2.54E+01	2.14E+01
		208.95	*	2.24	7.68E+02		4.13E+02	3.74E+02
		300.22	*	16.00	7.45E+01		3.93E+01	3.54E+01
	SE-75	121.11		16.70	2.54E-01	7.60E-02	-3.23E-02	1.23E-01
		136.00		59.20	7.60E-02		5.16E-03	3.67E-02
		264.65		59.80	8.36E-02		-5.36E-04	3.98E-02
		279.53		25.20	2.06E-01		-6.65E-03	9.81E-02
		400.65		11.40	4.40E-01		8.04E-02	2.06E-01
	RB-82	776.52		13.00	9.47E-01	9.47E-01	4.58E-01	4.39E-01
	RB-83	520.41		46.00	1.03E-01	1.03E-01	-7.64E-02	4.74E-02
		529.64		30.30	1.92E-01		5.87E-02	8.96E-02
		552.65		16.40	3.16E-01		-1.10E-01	1.45E-01
	KR-85	513.99		0.43	1.32E+01	1.32E+01	-5.62E+00	6.22E+00
	SR-85	513.99		99.27	7.60E-02	7.60E-02	-3.24E-02	3.59E-02
	Y-88	898.02		93.40	7.12E-02	6.74E-02	2.79E-02	3.25E-02
		1836.01		99.38	6.74E-02		7.46E-03	2.89E-02
	NB-93M	16.57		9.43	4.77E+03	4.77E+03	-8.28E+03	2.32E+03
	NB-94	702.63		100.00	5.43E-02	5.43E-02	-1.18E-02	2.52E-02
		871.10		100.00	5.47E-02		-1.77E-02	2.50E-02
	NB-95	765.79		99.81	1.14E-01	1.14E-01	-4.47E-03	5.33E-02
	NB-95M	235.69		25.00	3.71E+01	3.71E+01	-2.26E+02	1.80E+01
	ZR-95	724.18		43.70	2.03E-01	1.42E-01	-1.85E-03	9.51E-02
		756.72		55.30	1.42E-01		-2.06E-03	6.59E-02

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	MO-99	181.06		6.20	5.39E+02	3.22E+02	6.65E+01	2.60E+02
		739.58		12.80	3.22E+02		-5.17E+01	1.49E+02
		778.00		4.50	9.62E+02		4.73E+02	4.44E+02
	RU-103	497.08		89.00	7.80E-02	7.80E-02	-1.18E-02	3.62E-02
	RU-106	621.84		9.80	6.03E-01	6.03E-01	6.71E-02	2.82E-01
	AG-108M	433.93		89.90	4.27E-02	4.27E-02	3.01E-03	1.98E-02
		614.37		90.40	6.76E-02		-6.62E-03	3.18E-02
		722.95		90.50	6.56E-02		1.09E-02	3.05E-02
+	CD-109	88.03	*	3.72	1.49E+00	1.49E+00	1.63E+00	7.31E-01
	AG-110M	657.75		93.14	6.60E-02	6.60E-02	5.96E-03	3.08E-02
		677.61		10.53	5.54E-01		-6.84E-02	2.57E-01
		706.67		16.46	3.92E-01		2.06E-01	1.83E-01
		763.93		21.98	2.89E-01		-6.72E-02	1.34E-01
		884.67		71.63	9.19E-02		1.42E-02	4.23E-02
		1384.27		23.94	2.37E-01		1.14E-02	1.03E-01
	CD-113M	263.70		0.02	1.87E+02	1.87E+02	3.08E+01	8.94E+01
	SN-113	255.12		1.93	2.58E+00	8.56E-02	-9.37E-01	1.23E+00
		391.69		64.90	8.56E-02		2.46E-02	4.05E-02
	TE123M	159.00		84.10	5.58E-02	5.58E-02	2.06E-02	2.69E-02
	SB-124	602.71		97.87	8.09E-02	8.09E-02	3.77E-03	3.80E-02
		645.85		7.26	1.07E+00		-1.76E-01	4.98E-01
		722.78		11.10	7.23E-01		1.20E-01	3.37E-01
		1691.02		49.00	1.50E-01		4.22E-02	6.43E-02
	I-125	35.49		6.49	4.16E+00	4.16E+00	7.44E-01	2.01E+00
	SB-125	176.33		6.89	6.01E-01	1.57E-01	1.32E-03	2.89E-01
		427.89		29.33	1.57E-01		5.44E-02	7.34E-02
		463.38		10.35	4.86E-01		2.42E-01	2.28E-01
		600.56		17.80	3.28E-01		4.50E-03	1.54E-01
		635.90		11.32	4.94E-01		1.18E-01	2.30E-01
	SB-126	414.70		83.30	2.22E-01	2.22E-01	9.34E-03	1.04E-01
		666.33		99.60	2.43E-01		-5.79E-02	1.13E-01
		695.00		99.60	2.62E-01		2.77E-02	1.22E-01
		720.50		53.80	4.71E-01		1.34E-01	2.19E-01
+	SN-126	87.57	*	37.00	1.44E-01	1.44E-01	1.58E-01	7.06E-02
	SB-127	473.00		25.00	1.98E+01	1.88E+01	6.33E-01	9.22E+00
		685.20		35.70	1.88E+01		5.87E+00	8.78E+00
		783.80		14.70	4.78E+01		6.90E+00	2.22E+01
	I-129	29.78		57.00	9.49E-01	9.49E-01	-3.54E-02	4.58E-01
		33.60		13.20	2.05E+00		9.29E-01	9.93E-01
		39.58		7.52	1.73E+00		-1.59E-01	8.35E-01
	I-131	284.30		6.05	6.89E+00	4.71E-01	5.44E-01	3.28E+00
		364.48		81.20	4.71E-01		1.90E-02	2.21E-01
		636.97		7.26	7.15E+00		-1.75E+00	3.33E+00
		722.89		1.80	3.18E+01		5.29E+00	1.48E+01
	TE-132	49.72		13.10	1.06E+02	1.28E+01	-2.12E+00	5.07E+01
		228.16		88.00	1.28E+01		-1.60E-01	6.12E+00
	BA-133	81.00		33.00	1.00E-01	7.44E-02	1.59E-02	4.83E-02
		302.84		17.80	2.41E-01		-3.32E-02	1.14E-01
		356.01		60.00	7.44E-02		-1.64E-01	3.51E-02
	I-133	529.87		86.30	7.28E+07	7.28E+07	1.13E+07	3.38E+07
	XE-133	81.00		38.00	2.80E+00	2.80E+00	4.44E-01	1.35E+00
	CS-134	563.23		8.38	4.76E-01	7.37E-02	-3.46E-02	2.17E-01
		569.32		15.43	3.10E-01		5.46E-02	1.44E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-134	604.70	97.60	7.37E-02	7.37E-02	7.99E-03	3.50E-02
	795.84	85.40	8.02E-02		9.24E-02	3.75E-02
	801.93	8.73	6.22E-01		-1.35E-01	2.85E-01
CS-135	268.24	16.00	2.94E-01	2.94E-01	-3.77E-02	1.40E-01
@ I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@	1260.41	28.60	1.00E+26		1.00E+26	1.00E+20
@	1678.03	9.54	1.00E+26		1.00E+26	1.00E+20
CS-136	153.22	7.46	2.27E+00	2.18E-01	1.25E+00	1.10E+00
	163.89	4.61	3.43E+00		1.87E+00	1.65E+00
	176.55	13.56	1.20E+00		-2.85E-01	5.76E-01
	273.65	12.66	1.42E+00		-2.76E-01	6.77E-01
	340.57	48.50	4.28E-01		-1.63E-01	2.04E-01
	818.50	99.70	2.18E-01		-5.14E-02	1.00E-01
	1048.07	79.60	3.46E-01		1.51E-01	1.59E-01
	1235.34	19.70	1.84E+00		1.18E-02	8.54E-01
CS-137	661.65	85.12	6.85E-02	6.85E-02	-4.42E-04	3.20E-02
LA-138	788.74	34.00	1.72E-01	7.70E-02	5.22E-03	7.95E-02
	1435.80	66.00	7.70E-02		1.06E-02	3.32E-02
CE-139	165.85	80.35	5.63E-02	5.63E-02	4.68E-03	2.71E-02
BA-140	162.64	6.70	2.42E+00	7.11E-01	-5.05E-01	1.16E+00
	304.84	4.50	3.93E+00		6.40E-02	1.86E+00
	423.70	3.20	5.93E+00		-1.87E-01	2.78E+00
	437.55	2.00	9.47E+00		2.07E+00	4.44E+00
	537.32	25.00	7.11E-01		-6.01E-02	3.28E-01
LA-140	328.77	20.50	9.46E-01	2.37E-01	5.19E-01	4.49E-01
	487.03	45.50	4.18E-01		-2.34E-03	1.95E-01
	815.85	23.50	9.40E-01		1.70E-01	4.30E-01
	1596.49	95.49	2.37E-01		1.03E-01	1.02E-01
CE-141	145.44	48.40	1.44E-01	1.44E-01	6.18E-03	6.97E-02
CE-143	57.36	11.80	2.00E+05	8.44E+04	-1.95E+04	9.63E+04
	293.26	42.00	8.44E+04		1.56E+04	4.07E+04
	664.55	5.20	6.77E+05		-3.59E+04	3.17E+05
CE-144	133.54	10.80	3.63E-01	3.63E-01	-2.96E-01	1.75E-01
PM-144	476.78	42.00	1.17E-01	5.69E-02	4.47E-02	5.49E-02
	618.01	98.60	5.69E-02		1.31E-02	2.65E-02
	696.49	99.49	6.23E-02		8.43E-03	2.90E-02
PM-145	36.85	21.70	7.58E-01	3.89E-01	-3.15E-01	3.66E-01
	37.36	39.70	3.89E-01		-1.62E-01	1.88E-01
	42.30	15.10	6.82E-01		4.74E-01	3.30E-01
	72.40	2.31	1.66E+00		-6.19E-01	8.04E-01
PM-146	453.90	39.94	1.14E-01	1.14E-01	8.36E-03	5.35E-02
	735.90	14.01	4.27E-01		1.50E-01	1.98E-01
	747.13	13.10	4.35E-01		-1.26E-01	2.01E-01
ND-147	91.11	28.90	9.07E-01	9.07E-01	-4.28E-01	4.43E-01
	531.02	13.10	1.87E+00		6.03E-03	8.70E-01
PM-149	285.90	3.10	5.27E+03	5.27E+03	1.27E+03	2.51E+03
EU-152	121.78	20.50	1.82E-01	1.82E-01	7.99E-02	8.79E-02
	244.69	5.40	8.79E-01		-1.20E-02	4.22E-01
	344.27	19.13	2.31E-01		9.18E-02	1.09E-01
	778.89	9.20	6.26E-01		2.53E-01	2.89E-01
	964.01	10.40	7.85E-01		9.98E-02	3.67E-01
	1085.78	7.22	7.34E-01		-8.17E-01	3.27E-01
	1112.02	9.60	7.23E-01		1.33E-01	3.31E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	3.98E-01	1.82E-01	1.54E-01	1.75E-01
	GD-153	97.43		31.30	1.24E-01	1.24E-01	3.60E-02	5.97E-02
		103.18		22.20	1.81E-01		1.40E-02	8.78E-02
	EU-154	123.07		40.50	8.93E-02	8.93E-02	-4.39E-02	4.31E-02
		723.30		19.70	3.03E-01		5.04E-02	1.41E-01
		873.19		11.50	5.08E-01		2.43E-02	2.33E-01
		996.32		10.30	5.81E-01		-2.05E-01	2.64E-01
		1004.76		17.90	3.78E-01		9.52E-02	1.74E-01
		1274.45		35.50	2.00E-01		3.53E-02	9.06E-02
	EU-155	86.50		30.90	1.60E-01	1.60E-01	-7.58E-02	7.81E-02
		105.30		20.70	1.91E-01		1.96E-01	9.26E-02
	EU-156	811.77		10.40	1.54E+00	1.54E+00	-2.69E-01	7.00E-01
		1153.47		7.20	3.60E+00		3.47E-01	1.66E+00
		1230.71		8.90	3.01E+00		1.54E+00	1.39E+00
	HO-166M	184.41		72.60	7.12E-02	7.12E-02	2.61E-02	3.45E-02
		280.45		29.60	1.51E-01		-4.87E-03	7.19E-02
		410.94		11.10	4.40E-01		2.21E-01	2.08E-01
		711.69		54.10	1.15E-01		7.22E-02	5.40E-02
	TM-171	66.72		0.14	2.91E+01	2.91E+01	1.72E+01	1.40E+01
	HF-172	81.75		4.52	7.38E-01	3.38E-01	-2.96E-01	3.56E-01
		125.81		11.30	3.38E-01		-3.95E-02	1.63E-01
	LU-172	181.53		20.60	3.30E+00	1.69E+00	8.10E-01	1.59E+00
		810.06		16.63	4.59E+00		5.17E-01	2.09E+00
		912.12		15.25	1.13E+01		2.29E+01	5.38E+00
		1093.66		62.50	1.69E+00		-4.86E-01	7.78E-01
	LU-173	100.72		5.24	7.06E-01	2.46E-01	2.97E-02	3.41E-01
		272.11		21.20	2.46E-01		9.43E-02	1.18E-01
	HF-175	343.40		84.00	6.82E-02	6.82E-02	3.64E-03	3.23E-02
	LU-176	88.34		13.30	3.79E-01	4.66E-02	4.79E-01	1.85E-01
		201.83		86.00	4.82E-02		-1.43E-03	2.31E-02
		306.78		94.00	4.66E-02		-2.05E-03	2.21E-02
	TA-182	67.75		41.20	1.10E-01	1.10E-01	8.31E-03	5.29E-02
		1121.30		34.90	3.51E-01		3.45E-01	1.66E-01
		1189.05		16.23	5.27E-01		1.06E-01	2.41E-01
		1221.41		26.98	3.24E-01		-1.29E-01	1.48E-01
		1231.02		11.44	8.10E-01		2.60E-01	3.73E-01
	IR-192	308.46		29.68	1.92E-01	1.18E-01	2.83E-02	9.14E-02
		468.07		48.10	1.18E-01		1.57E-02	5.51E-02
	HG-203	279.19		77.30	8.57E-02	8.57E-02	-8.89E-03	4.09E-02
	BI-207	569.67		97.72	4.79E-02	4.79E-02	8.43E-03	2.22E-02
		1063.62		74.90	8.50E-02		-2.52E-02	3.87E-02
+	TL-208	583.14	*	30.22	2.95E-01	1.35E-01	6.02E-01	1.42E-01
		860.37		4.48	1.54E+00		1.15E+00	7.20E-01
		2614.66	*	35.85	1.35E-01		4.91E-01	5.59E-02
	BI-210M	262.00		45.00	9.47E-02	9.47E-02	-1.28E-02	4.52E-02
		300.00		23.00	2.10E-01		1.58E-01	1.00E-01
+	PB-210	46.50	*	4.25	2.48E+00	2.48E+00	1.37E+00	1.21E+00
	PB-211	404.84		2.90	1.37E+00	1.37E+00	-1.72E-01	6.41E-01
		831.96		2.90	2.16E+00		8.26E-01	1.00E+00
+	BI-212	727.17	*	11.80	5.66E-01	5.66E-01	3.19E-01	2.65E-01
		1620.62		2.75	1.54E+00		-1.03E+00	6.31E-01
+	PB-212	238.63	*	44.60	1.81E-01	1.81E-01	6.90E-01	8.85E-02
		300.09	*	3.41	1.31E+00		6.89E-01	6.21E-01

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	2.13E-01	2.13E-01	8.77E-01	1.03E-01
		1120.29	*	15.10	7.16E-01		9.80E-01	3.39E-01
		1764.49	*	15.80	5.10E-01		7.13E-01	2.30E-01
		2204.22		4.98	1.72E+00		1.36E+00	7.76E-01
+	PB-214	295.21	*	19.19	3.71E-01	2.16E-01	6.82E-01	1.80E-01
		351.92	*	37.19	2.16E-01		8.63E-01	1.05E-01
	RN-219	401.80		6.50	6.64E-01	6.64E-01	2.24E-01	3.12E-01
	RA-223	323.87		3.88	1.09E+00	1.09E+00	1.61E-01	5.17E-01
	RA-224	240.98		3.95	2.12E+00	2.12E+00	5.20E+00	1.04E+00
	RA-225	40.00		31.00	1.38E+00	1.38E+00	-1.27E-01	6.66E-01
	RA-226	186.21		3.28	1.59E+00	1.59E+00	2.48E+00	7.72E-01
	TH-227	50.10		8.40	6.03E-01	5.18E-01	-1.21E-02	2.89E-01
		236.00		11.50	5.18E-01		-3.16E+00	2.51E-01
		256.20		6.30	6.78E-01		-7.09E-03	3.23E-01
+	AC-228	338.32	*	11.40	6.17E-01	3.23E-01	6.32E-01	2.98E-01
		911.07	*	27.70	3.23E-01		7.62E-01	1.53E-01
		969.11	*	16.60	4.87E-01		6.31E-01	2.28E-01
	TH-230	48.44		16.90	3.32E-01	3.32E-01	-3.24E-01	1.59E-01
		62.85		4.60	1.01E+00		1.25E+00	4.88E-01
		67.67		0.37	1.04E+01		7.90E-01	5.03E+00
	PA-231	283.67		1.60	2.70E+00	1.86E+00	2.13E-01	1.28E+00
		302.67		2.30	1.86E+00		-2.56E-01	8.80E-01
	TH-231	25.64		14.70	1.20E+01	5.46E-01	-8.31E-01	5.81E+00
		84.21		6.40	5.46E-01		3.49E-01	2.64E-01
	PA-233	311.98		38.60	2.33E-01	2.33E-01	1.97E-01	1.11E-01
	PA-234	131.20		20.40	1.91E-01	1.91E-01	1.37E-01	9.25E-02
		733.99		8.80	6.82E-01		3.65E-01	3.17E-01
		946.00		12.00	5.33E-01		-2.39E-02	2.45E-01
	PA-234M	1001.03		0.92	6.66E+00	6.66E+00	-2.24E+00	3.04E+00
	TH-234	63.29		3.80	1.21E+00	1.21E+00	1.50E+00	5.86E-01
	U-235	143.76		10.50	3.84E-01	3.84E-01	1.89E-01	1.85E-01
		163.35		4.70	8.30E-01		-1.74E-01	4.00E-01
		205.31		4.70	9.21E-01		5.71E-02	4.43E-01
	NP-237	86.50		12.60	3.89E-01	3.89E-01	-1.84E-01	1.90E-01
	NP-239	106.10		22.70	3.85E+02	3.85E+02	-1.18E+02	1.86E+02
		228.18		10.70	8.99E+02		-1.13E+01	4.30E+02
		277.60		14.10	7.23E+02		-3.42E+01	3.45E+02
	AM-241	59.54		35.90	1.18E-01	1.18E-01	-3.66E-02	5.68E-02
	AM-243	74.67		66.00	7.41E-02	7.41E-02	-1.81E-01	3.61E-02
	CM-243	209.75		3.29	1.41E+00	3.17E-01	4.55E-01	6.77E-01
		228.14		10.60	3.96E-01		-4.95E-03	1.89E-01
		277.60		14.00	3.17E-01		-1.50E-02	1.51E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

00492

Analysis Report for 1508002-07

FEEBRIS1D-4 064-065

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-4 064-065

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	118
9:	486	1016	972	393	498	1789	353	136
17:	141	102	105	104	97	117	114	111
25:	86	92	90	81	82	82	88	87
33:	101	82	94	77	93	84	96	97
41:	101	109	90	73	94	116	131	76
49:	55	64	67	70	68	81	64	61
57:	65	82	76	80	88	93	127	119
65:	70	90	81	108	81	87	92	100
73:	103	120	257	129	335	253	79	79
81:	73	87	74	102	100	68	144	165
89:	81	137	82	104	179	96	94	68
97:	51	60	58	57	50	51	72	70
105:	71	65	65	50	68	65	58	55
113:	53	61	61	49	64	44	53	67
121:	47	60	42	63	46	54	59	49
129:	65	60	57	51	55	44	47	53
137:	66	62	52	67	43	61	47	64
145:	59	48	51	48	45	55	55	66
153:	54	49	63	44	49	57	51	53
161:	38	44	46	44	52	44	38	49
169:	43	60	42	30	40	48	37	43
177:	48	45	47	47	51	61	49	52
185:	49	131	72	41	36	55	36	43
193:	42	45	36	44	35	50	40	38
201:	42	28	51	33	38	44	39	43
209:	58	51	38	38	42	27	35	44
217:	33	38	33	40	32	39	40	34
225:	35	38	29	38	27	33	32	47
233:	48	28	38	45	38	178	344	78
241:	65	108	48	38	35	33	39	37
249:	36	21	29	35	31	20	25	38
257:	31	32	28	28	24	29	33	27
265:	31	22	28	21	38	58	39	30
273:	29	33	30	26	34	34	26	21
281:	28	32	25	19	27	26	23	32
289:	21	22	26	17	33	32	154	92
297:	23	31	21	47	29	23	20	20
305:	23	27	23	25	21	27	23	22
313:	29	27	13	23	20	17	20	20
321:	22	23	21	24	17	18	26	32
329:	26	21	18	19	28	26	24	26
337:	28	66	58	24	22	18	25	20
345:	18	21	15	14	26	12	104	257
353:	80	21	14	23	23	18	15	21
361:	17	13	17	15	12	18	13	11

369:	26	11	22	13	15	24	14	16

Sample Title: FEEBRIS1D-4 064-065

Channel								
377:	22	20	14	11	17	21	21	17
385:	13	16	13	22	22	24	21	16
393:	20	18	14	17	15	17	12	17
401:	18	21	10	12	13	9	21	15
409:	25	24	19	16	14	17	9	19
417:	13	12	15	15	15	10	24	18
425:	11	18	19	16	14	11	15	8
433:	15	12	9	10	11	28	19	17
441:	10	11	14	7	17	11	10	10
449:	17	9	18	11	15	11	21	14
457:	15	13	10	10	6	13	37	19
465:	9	12	16	16	12	10	11	11
473:	16	7	17	16	10	17	12	8
481:	14	14	11	12	11	11	16	17
489:	11	16	13	13	16	22	14	11
497:	9	16	8	13	5	11	13	8
505:	6	18	10	16	25	46	69	39
513:	22	15	13	8	14	10	10	10
521:	6	5	11	17	13	7	13	9
529:	14	17	9	10	10	12	13	6
537:	10	9	11	9	11	10	6	19
545:	16	8	5	12	6	9	11	5
553:	9	11	11	15	7	13	7	10
561:	8	7	13	4	5	9	6	10
569:	13	16	9	13	10	9	11	12
577:	7	7	16	8	11	31	83	52
585:	12	9	5	11	12	7	12	10
593:	9	11	9	10	14	13	5	11
601:	6	14	14	10	14	11	15	39
609:	167	126	19	15	13	10	10	9
617:	9	12	9	10	4	8	8	17
625:	14	8	8	10	7	5	7	8
633:	8	12	8	5	9	12	10	5
641:	11	12	9	7	9	12	8	14
649:	9	13	7	8	5	8	10	5
657:	11	12	5	6	17	16	6	6
665:	10	12	9	7	11	6	15	4
673:	12	9	16	8	7	5	5	6
681:	11	6	14	13	7	9	7	10
689:	3	11	4	11	15	6	6	8
697:	7	14	8	12	6	4	9	7
705:	7	6	9	14	13	7	8	11
713:	6	11	4	7	10	6	7	11
721:	4	7	14	8	8	9	28	14
729:	10	2	9	4	13	7	8	10
737:	10	4	7	4	9	5	11	5
745:	11	9	12	4	7	4	8	11
753:	10	7	12	3	3	9	12	8
761:	6	8	5	10	6	12	8	16
769:	16	10	10	10	5	9	7	7
777:	12	8	8	7	1	7	6	15
785:	9	14	6	8	7	4	3	6
793:	10	10	17	15	4	9	2	3

801:	1	6	11	8	9	10	4	6

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Channel								
809:	4	5	3	7	6	1	7	5
817:	5	4	11	3	6	5	14	6
825:	9	10	5	4	6	9	14	5
833:	8	5	7	8	5	6	16	10
841:	8	5	3	4	6	15	8	8
849:	4	7	7	11	7	8	5	4
857:	7	8	5	14	16	8	5	5
865:	5	3	11	3	5	7	8	3
873:	8	3	8	5	11	3	4	7
881:	9	6	7	8	9	2	5	2
889:	10	8	5	11	4	2	6	4
897:	5	6	3	6	7	4	4	10
905:	6	8	9	9	9	23	74	29
913:	10	9	7	2	4	6	6	5
921:	4	4	6	10	7	4	3	7
929:	5	6	3	4	9	12	7	8
937:	3	3	6	3	5	4	4	7
945:	4	7	11	6	6	10	7	10
953:	10	9	8	5	6	3	9	4
961:	4	8	8	15	15	8	15	21
969:	39	8	6	5	3	7	2	4
977:	5	10	10	6	15	3	3	3
985:	4	5	5	11	6	3	1	9
993:	6	4	5	8	5	4	3	5
1001:	10	5	6	4	10	4	6	5
1009:	7	4	5	7	5	2	9	2
1017:	4	4	1	4	6	7	6	4
1025:	3	11	6	2	2	6	8	6
1033:	4	7	4	7	6	4	7	7
1041:	7	6	6	4	4	6	5	7
1049:	10	6	6	3	4	1	3	6
1057:	8	6	10	3	5	4	4	10
1065:	4	6	5	5	7	3	0	4
1073:	4	8	8	6	5	6	10	6
1081:	8	3	3	2	2	6	3	4
1089:	9	6	8	5	2	8	6	7
1097:	2	14	5	8	6	4	4	6
1105:	5	6	1	8	6	6	9	4
1113:	5	3	7	9	9	13	19	30
1121:	17	9	3	5	7	5	6	8
1129:	7	6	5	6	8	4	2	11
1137:	5	6	4	12	5	5	2	8
1145:	9	3	4	4	7	8	2	5
1153:	6	9	11	8	6	9	8	9
1161:	6	6	3	4	11	6	5	5
1169:	9	7	4	6	6	4	8	4
1177:	8	7	3	10	9	11	2	4
1185:	5	7	3	11	2	5	7	5
1193:	4	6	7	2	8	1	6	7
1201:	5	8	7	7	14	9	3	8
1209:	3	2	5	7	4	8	7	13
1217:	9	4	4	12	4	6	5	5
1225:	3	7	4	8	4	10	7	9

1233:	5	2	5	4	18	17	18	4

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Channel								
1241:	8	4	6	7	7	7	5	11
1249:	1	5	9	3	6	5	4	6
1257:	4	7	2	5	3	4	1	4
1265:	7	7	5	3	5	1	1	3
1273:	6	4	7	8	4	5	5	5
1281:	9	4	3	6	2	6	4	7
1289:	5	5	8	4	7	7	10	5
1297:	1	5	2	2	2	5	4	3
1305:	1	3	4	1	4	1	6	2
1313:	7	3	4	3	4	3	4	3
1321:	5	1	6	4	2	3	2	5
1329:	2	1	2	3	4	4	8	4
1337:	2	4	4	2	4	3	4	1
1345:	2	3	6	3	2	4	2	6
1353:	3	3	1	1	4	5	3	2
1361:	2	5	1	3	5	5	2	2
1369:	4	3	4	1	0	2	4	3
1377:	10	11	5	2	2	2	2	2
1385:	1	4	2	2	2	4	4	2
1393:	1	2	6	4	1	1	3	2
1401:	6	2	2	2	1	2	7	4
1409:	1	2	0	2	2	5	5	1
1417:	5	3	2	3	3	2	0	1
1425:	2	2	5	0	6	1	1	1
1433:	3	0	1	2	2	4	0	4
1441:	2	3	2	1	1	6	3	3
1449:	0	3	2	5	1	4	4	5
1457:	3	5	67	211	237	94	6	9
1465:	4	2	1	2	2	2	2	3
1473:	0	1	1	3	3	3	2	0
1481:	2	1	0	1	4	1	0	1
1489:	0	4	3	0	1	3	2	2
1497:	3	2	2	3	0	1	2	0
1505:	1	1	4	5	3	5	2	3
1513:	1	0	1	1	1	1	2	0
1521:	1	2	2	2	2	4	0	0
1529:	2	1	3	4	1	1	1	3
1537:	2	1	2	1	0	2	3	0
1545:	1	1	1	0	0	2	1	0
1553:	0	1	1	1	4	2	1	1
1561:	1	2	2	2	1	3	1	0
1569:	0	2	4	1	2	1	2	0
1577:	1	1	2	2	2	2	0	0
1585:	0	0	4	2	3	1	0	3
1593:	3	0	0	0	3	3	1	0
1601:	0	1	1	1	0	1	0	1
1609:	2	2	2	0	0	0	0	1
1617:	1	0	0	0	3	1	1	0
1625:	4	3	0	2	0	2	3	1
1633:	2	3	3	0	3	1	1	2
1641:	1	0	4	2	0	2	0	3
1649:	1	2	1	0	2	1	3	1
1657:	1	1	1	0	0	2	0	2

1665:	3	1	0	2	0	1	2	3

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Channel								
1673:	0	0	3	2	1	0	0	0
1681:	0	2	1	2	0	1	0	2
1689:	1	1	4	0	2	1	1	0
1697:	1	1	0	0	3	0	0	2
1705:	1	2	2	1	1	1	1	0
1713:	1	0	0	0	1	2	1	0
1721:	0	2	3	0	1	1	1	1
1729:	6	1	2	1	0	1	0	4
1737:	1	1	2	4	0	4	1	2
1745:	0	0	0	1	0	2	1	0
1753:	0	1	2	1	0	1	2	1
1761:	0	1	9	14	21	4	1	2
1769:	1	1	1	1	0	0	1	0
1777:	0	1	0	0	2	0	0	0
1785:	2	0	0	1	0	1	0	0
1793:	2	1	0	1	1	0	0	1
1801:	1	3	3	1	2	0	0	1
1809:	1	1	0	1	0	0	1	2
1817:	1	1	1	0	2	0	3	0
1825:	0	0	0	1	3	0	2	2
1833:	3	1	1	0	3	0	0	1
1841:	0	2	0	0	1	3	3	5
1849:	0	1	1	1	1	0	1	0
1857:	0	0	0	0	3	1	1	0
1865:	0	1	0	1	0	1	1	1
1873:	2	1	1	0	0	1	1	1
1881:	1	1	1	0	0	3	1	1
1889:	0	1	2	1	0	2	0	0
1897:	2	1	1	1	0	1	0	1
1905:	0	0	1	0	0	2	1	2
1913:	0	0	1	2	0	0	0	1
1921:	2	1	2	1	2	0	1	1
1929:	1	1	0	0	2	2	0	0
1937:	2	2	0	1	1	1	0	0
1945:	0	0	1	2	1	2	1	1
1953:	1	0	1	1	2	1	2	0
1961:	0	1	1	3	0	1	1	2
1969:	0	0	0	0	0	1	2	0
1977:	0	0	0	0	2	1	1	0
1985:	1	1	1	1	1	1	0	1
1993:	3	0	1	0	1	0	1	1
2001:	1	1	0	0	0	0	0	0
2009:	0	1	1	0	0	0	1	0
2017:	1	1	0	1	0	0	1	0
2025:	0	1	0	0	1	1	0	0
2033:	0	1	2	2	1	1	0	0
2041:	1	0	2	0	0	0	0	1
2049:	1	3	1	1	0	0	1	0
2057:	1	3	0	1	0	1	0	0
2065:	0	2	3	1	0	2	0	0
2073:	2	0	1	0	0	0	0	0
2081:	0	0	0	1	1	1	0	0
2089:	1	0	3	0	1	0	1	0

2097:	2	0	0	0	1	1	3	1

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Channel								
2105:	1	2	1	3	0	0	1	1
2113:	1	1	0	1	0	1	0	2
2121:	0	1	0	1	1	1	1	2
2129:	1	2	0	1	0	1	1	0
2137:	0	1	0	1	1	0	3	1
2145:	0	0	0	1	2	1	1	0
2153:	3	3	2	4	1	0	0	2
2161:	0	0	0	2	1	0	0	1
2169:	0	1	2	0	2	2	2	1
2177:	0	0	1	0	2	0	2	0
2185:	1	0	1	1	1	2	2	0
2193:	1	1	2	1	0	1	0	0
2201:	2	5	6	4	6	2	1	2
2209:	1	1	1	1	1	1	0	0
2217:	1	1	0	1	1	0	1	0
2225:	0	2	0	2	1	0	0	1
2233:	0	1	1	1	2	1	0	0
2241:	1	0	1	2	0	1	0	1
2249:	0	1	0	0	0	1	1	0
2257:	0	1	0	0	1	1	1	0
2265:	0	2	1	2	0	0	0	2
2273:	0	0	1	1	1	0	1	0
2281:	1	0	0	1	1	1	0	0
2289:	0	0	0	2	1	0	0	1
2297:	1	2	0	2	1	1	1	1
2305:	1	0	0	2	0	0	1	1
2313:	0	0	0	0	2	0	0	1
2321:	0	2	0	0	0	2	0	0
2329:	3	0	1	0	0	1	1	1
2337:	1	1	1	1	0	0	1	2
2345:	0	1	1	0	0	1	1	1
2353:	0	4	1	0	0	0	2	0
2361:	1	1	1	1	3	0	0	1
2369:	1	0	0	0	0	1	1	0
2377:	1	1	1	0	1	0	0	0
2385:	0	1	0	1	0	0	0	2
2393:	1	0	1	0	1	2	1	1
2401:	1	0	1	0	1	3	1	2
2409:	0	0	1	1	1	0	3	1
2417:	0	2	0	1	0	2	0	0
2425:	0	0	1	1	1	2	2	0
2433:	0	0	1	1	0	0	2	0
2441:	2	0	1	0	1	2	2	0
2449:	0	0	2	2	0	1	0	1
2457:	0	0	1	0	0	0	1	0
2465:	0	0	0	0	1	0	2	1
2473:	0	0	1	1	0	1	0	0
2481:	0	0	0	0	1	1	0	0
2489:	0	0	2	0	0	2	0	0
2497:	1	1	1	0	1	2	0	1
2505:	0	0	1	0	1	0	0	0
2513:	1	0	0	0	0	0	0	0
2521:	0	0	0	0	0	0	0	0

2529:	1	0	0	0	0	0	1	0

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Channel								
2537:	0	0	1	0	0	1	0	1
2545:	0	0	0	1	0	1	1	0
2553:	0	0	0	0	1	0	1	0
2561:	0	0	0	0	0	0	0	0
2569:	0	0	0	0	0	0	0	2
2577:	0	0	0	0	1	0	0	1
2585:	0	1	0	0	0	1	0	0
2593:	0	0	0	1	0	0	0	2
2601:	1	0	0	1	0	1	0	2
2609:	1	0	0	7	11	22	17	10
2617:	1	0	0	2	1	0	0	0
2625:	0	1	0	0	1	0	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	1	0	0	1	0
2649:	0	0	0	0	1	0	1	0
2657:	1	1	0	0	0	0	0	0
2665:	1	1	0	1	1	0	0	0
2673:	0	0	0	0	0	1	0	0
2681:	1	0	0	0	0	0	0	0
2689:	0	1	0	0	1	0	0	0
2697:	0	0	0	0	0	0	0	0
2705:	0	0	1	1	1	0	1	0
2713:	0	1	0	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	2	0	0	0	0	0	1	0
2737:	1	0	0	0	0	0	0	0
2745:	0	1	0	0	0	0	0	2
2753:	0	2	0	0	0	0	0	1
2761:	0	0	0	0	0	0	1	0
2769:	0	0	0	1	0	0	0	0
2777:	0	0	0	0	0	0	1	1
2785:	0	0	0	0	1	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	1	0	1	0	1	0	1	1
2809:	1	0	0	0	0	0	1	0
2817:	0	0	0	0	0	0	1	2
2825:	1	1	0	0	0	0	0	1
2833:	0	1	0	0	0	0	0	1
2841:	0	0	0	0	1	0	0	0
2849:	0	1	0	0	1	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	1	1	0	1	1	0	1	0
2873:	1	0	0	0	0	1	0	0
2881:	1	0	0	0	0	0	1	0
2889:	0	0	0	0	0	0	1	0
2897:	0	0	0	0	1	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	1	0	0	1	0	0	0	0
2921:	1	1	0	0	0	0	0	0
2929:	0	0	0	1	0	0	1	0
2937:	0	0	0	0	0	0	0	0
2945:	1	0	0	1	0	0	0	1
2953:	1	1	0	0	1	0	1	0

2961:	0	0	0	0	0	0	2	0

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Channel								
2969:	0	0	0	0	1	1	0	0
2977:	0	0	0	1	0	0	0	0
2985:	1	1	0	1	0	0	0	1
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	1	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	1	0	1	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	1	0	0	0	0	0
3049:	0	0	1	0	0	0	1	0
3057:	0	0	0	0	1	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	0	0	2	0	0	0	0	0
3081:	0	1	0	0	0	0	0	1
3089:	1	0	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	1	0	0	0
3113:	0	0	0	0	0	0	1	0
3121:	0	0	0	0	0	1	1	0
3129:	0	0	1	0	1	0	1	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	0	0	1	0	0	1
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	1	1	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	0	1	0	1	0
3201:	0	0	0	0	0	0	1	0
3209:	0	0	0	0	0	1	0	0
3217:	1	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	1	0	0	0	0	0	0	0
3241:	0	0	0	1	1	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	1	1	0	0	0	1
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	1	0	0	0	1
3289:	0	0	0	0	0	0	1	0
3297:	0	0	0	0	0	0	0	1
3305:	0	0	1	1	0	1	0	0
3313:	0	0	0	1	1	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	1	0	0
3337:	0	0	0	0	0	1	0	0
3345:	1	0	0	1	0	0	0	0
3353:	0	0	0	0	1	0	0	0
3361:	1	0	0	0	0	0	0	0
3369:	0	1	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	1	0	0	0	0

3393:	0	0	0	0	0	0	0	1

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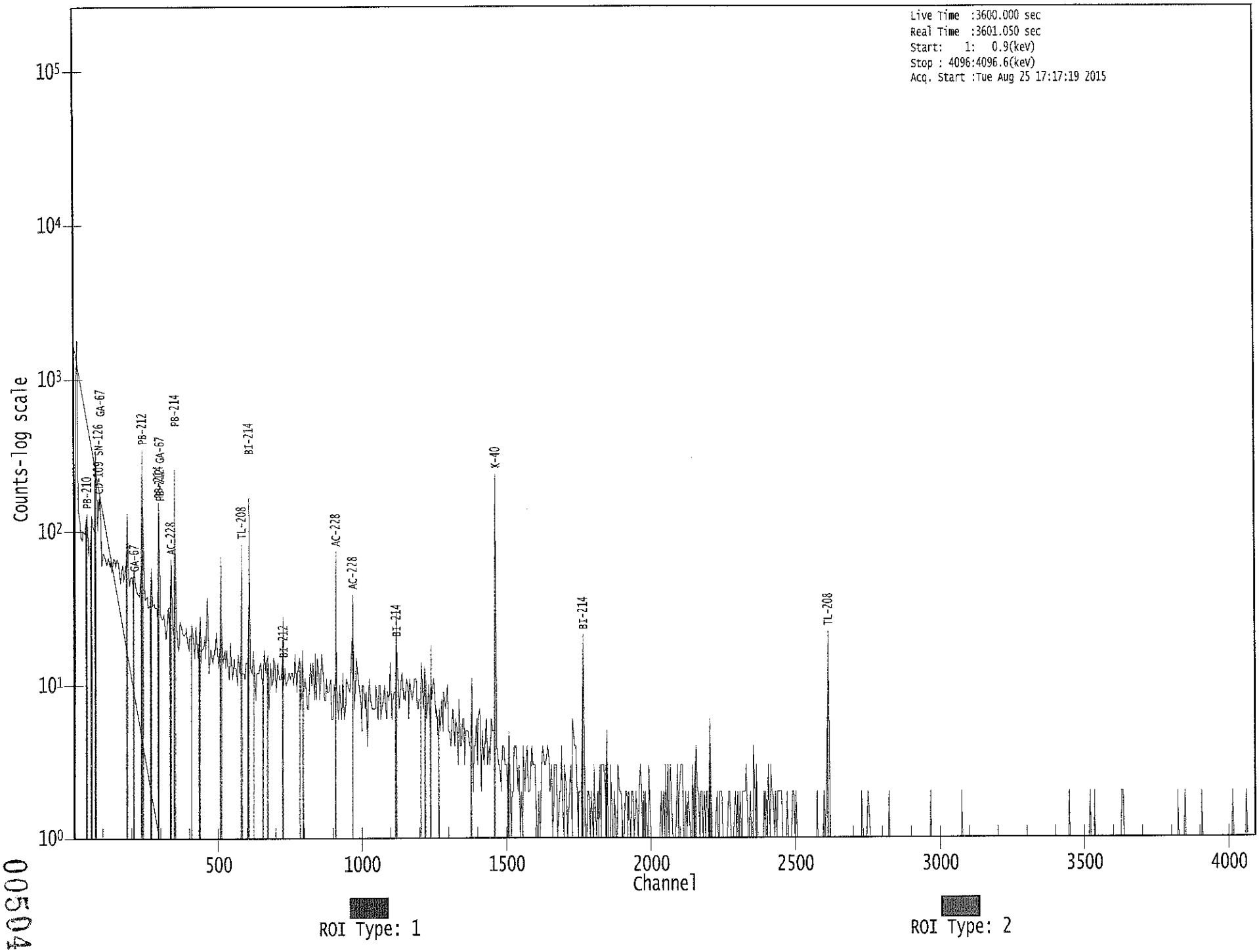
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	1	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	2
3449:	0	0	0	0	1	0	0	0
3457:	0	0	0	0	0	0	0	1
3465:	0	1	0	0	0	0	0	0
3473:	0	0	0	0	1	0	1	0
3481:	0	1	0	1	0	0	0	0
3489:	0	0	0	1	0	0	1	0
3497:	0	0	0	0	0	0	0	0
3505:	1	0	0	0	0	0	1	0
3513:	0	0	0	1	1	0	0	2
3521:	0	1	0	0	1	1	0	0
3529:	0	0	0	0	0	0	2	0
3537:	1	0	0	0	1	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	1	0
3585:	1	0	0	0	0	0	0	0
3593:	0	0	0	1	0	0	0	0
3601:	0	0	0	0	1	1	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	1	0	0
3625:	0	1	0	0	2	0	0	0
3633:	0	2	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	1	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	1	0	0	0	0
3689:	0	0	0	0	0	1	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	1	0	0	1
3713:	0	1	1	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	1	0	0	0	0	0
3737:	0	0	0	0	1	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	1	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	1	1	1
3785:	0	0	0	0	0	0	0	1
3793:	0	0	0	0	0	1	0	0
3801:	0	0	0	0	0	0	0	1
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	2	0	0

3825:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-4 064-065

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	1	0	0	0	2
3849:	0	0	0	0	0	0	0	1
3857:	1	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	1	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	1	1	0
3897:	0	0	0	0	0	0	0	0
3905:	2	0	0	0	0	0	0	0
3913:	0	0	1	0	0	1	0	0
3921:	1	0	0	0	1	0	0	0
3929:	0	1	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	1	0	0	0
3953:	0	0	0	1	0	0	0	0
3961:	0	0	0	0	0	1	0	0
3969:	0	0	0	0	0	0	1	0
3977:	0	0	0	1	0	0	0	0
3985:	0	0	0	0	1	0	1	0
3993:	0	0	0	0	1	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	1	1	0	0	2	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	0	0	1	1	1	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	1	0	0	0	2	0	0
4065:	0	0	0	0	0	0	1	0
4073:	0	0	0	0	0	0	0	0
4081:	0	1	1	0	1	0	0	0
4089:	0	1	0	0	0	0	0	0

0000026416.CNF



00504

Apex-Gamma

Analysis Report for 1508002-08
FEEBRIS1D-20 080-081

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-08
Sample Description	: FEEBRIS1D-20 080-081
Sample Type	: SOIL
Sample Size	: 6.785E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:39:37AM
Acquisition Started	: 8/25/2015 5:25:21PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE1
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3600.6 seconds
Dead Time	: 0.02 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 19 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26418

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG 8/26/15

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:25:25PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	42.91	43.27	0.0000	0.00
2	46.62	46.97	0.0000	0.00
3	76.74	77.08	0.0000	0.00
4	88.11	88.45	0.0000	0.00
5	186.09	186.40	0.0000	0.00
6	238.56	238.85	0.0000	0.00
7	241.87	242.15	0.0000	0.00
8	295.38	295.65	0.0000	0.00
9	338.29	338.55	0.0000	0.00
10	352.01	352.26	0.0000	0.00
11	583.62	583.79	0.0000	0.00
12	603.23	603.39	0.0000	0.00
13	609.34	609.50	0.0000	0.00
14	767.78	767.89	0.0000	0.00
15	791.20	791.29	0.0000	0.00
16	913.03	913.09	0.0000	0.00
17	1120.25	1120.23	0.0000	0.00
18	1213.77	1213.72	0.0000	0.00
19	1238.19	1238.13	0.0000	0.00
20	1376.11	1376.00	0.0000	0.00
21	1380.33	1380.22	0.0000	0.00
22	1401.94	1401.82	0.0000	0.00
23	1408.34	1408.22	0.0000	0.00
24	1460.79	1460.65	0.0000	0.00
25	1501.14	1500.98	0.0000	0.00
26	1509.46	1509.30	0.0000	0.00
27	1581.27	1581.08	0.0000	0.00
28	1594.75	1594.56	0.0000	0.00
29	1729.74	1729.50	0.0000	0.00
30	1764.43	1764.17	0.0000	0.00
31	1846.93	1846.64	0.0000	0.00
32	1957.33	1957.00	0.0000	0.00
33	2006.40	2006.05	0.0000	0.00
34	2203.53	2203.11	0.0000	0.00
35	2614.20	2613.62	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	1	42.91	42 -	51	43.27	2.57E+01	24.38	1.48E+02	1.53
m	2	46.62	42 -	51	46.97	9.99E+01	40.97	2.69E+02	1.54
	3	76.74	74 -	83	77.08	3.03E+02	91.75	9.78E+02	3.62
m	4	88.11	83 -	98	88.45	9.75E+01	47.92	3.88E+02	1.79
	5	186.09	181 -	190	186.40	1.76E+02	64.01	4.84E+02	1.97
M	6	238.56	235 -	246	238.85	1.28E+02	36.00	1.85E+02	1.68
m	7	241.87	235 -	246	242.15	1.00E+02	36.16	1.69E+02	1.68
	8	295.38	292 -	299	295.65	1.70E+02	48.99	2.84E+02	1.83
	9	338.29	333 -	344	338.55	7.17E+01	44.36	2.11E+02	3.73
	10	352.01	348 -	356	352.26	3.71E+02	55.07	2.37E+02	1.63
	11	583.62	580 -	588	583.79	2.55E+01	26.78	9.50E+01	1.91
M	12	603.23	599 -	620	603.39	1.74E+01	21.18	9.22E+01	2.39
m	13	609.34	599 -	620	609.50	2.81E+02	36.15	4.64E+01	1.83
	14	767.78	763 -	772	767.89	3.71E+01	26.53	7.77E+01	2.38
	15	791.20	783 -	802	791.29	3.26E+01	36.50	1.01E+02	10.01
	16	913.03	909 -	917	913.09	2.02E+01	19.04	3.96E+01	5.66
	17	1120.25	1114 -	1125	1120.23	5.77E+01	29.93	8.07E+01	2.00
	18	1213.77	1203 -	1221	1213.72	2.73E+01	23.26	3.55E+01	11.52
	19	1238.19	1232 -	1244	1238.13	3.17E+01	24.98	5.86E+01	2.34
M	20	1376.11	1375 -	1383	1376.00	7.11E+00	4.80	3.75E+00	2.16
m	21	1380.33	1375 -	1383	1380.22	7.80E+00	10.62	8.50E+00	2.38
M	22	1401.94	1395 -	1415	1401.82	1.64E+01	10.62	1.21E+01	2.39
m	23	1408.34	1395 -	1415	1408.22	1.45E+01	10.81	9.37E+00	2.39
	24	1460.79	1457 -	1463	1460.65	8.82E+01	22.94	3.17E+01	2.37
	25	1501.14	1498 -	1503	1500.98	9.50E+00	7.28	3.00E+00	1.64
	26	1509.46	1505 -	1513	1509.30	1.37E+01	13.00	1.66E+01	3.04
	27	1581.27	1577 -	1584	1581.08	1.11E+01	8.25	3.85E+00	1.74
	28	1594.75	1590 -	1598	1594.56	7.50E+00	9.41	9.00E+00	4.13
	29	1729.74	1725 -	1732	1729.50	1.80E+01	10.95	8.00E+00	2.63
	30	1764.43	1760 -	1767	1764.17	5.80E+01	15.23	0.00E+00	1.73
	31	1846.93	1842 -	1850	1846.64	1.40E+01	7.48	0.00E+00	6.60
	32	1957.33	1953 -	1959	1957.00	5.00E+00	4.47	0.00E+00	1.50
	33	2006.40	2003 -	2008	2006.05	5.50E+00	6.08	3.00E+00	2.38
	34	2203.53	2198 -	2207	2203.11	1.90E+01	8.72	0.00E+00	2.97
	35	2614.20	2610 -	2616	2613.62	1.92E+01	9.81	3.52E+00	1.76

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	1	42.91	42 -	51	2.57E+01	24.38	1.48E+02	2.00E+01
m	2	46.62	42 -	51	9.99E+01	40.97	2.69E+02	2.70E+01
	3	76.74	74 -	83	3.03E+02	91.75	9.78E+02	6.98E+01
m	4	88.11	83 -	98	9.75E+01	47.92	3.88E+02	3.24E+01
	5	186.09	181 -	190	1.76E+02	64.01	4.84E+02	4.79E+01
M	6	238.56	235 -	246	1.28E+02	36.00	1.85E+02	2.24E+01
m	7	241.87	235 -	246	1.00E+02	36.16	1.69E+02	2.14E+01
	8	295.38	292 -	299	1.70E+02	48.99	2.84E+02	3.41E+01
	9	338.29	333 -	344	7.17E+01	44.36	2.11E+02	3.37E+01
	10	352.01	348 -	356	3.71E+02	55.07	2.37E+02	3.23E+01
	11	583.62	580 -	588	2.55E+01	26.78	9.50E+01	2.04E+01
M	12	603.23	599 -	620	1.74E+01	21.18	9.22E+01	1.58E+01
m	13	609.34	599 -	620	2.81E+02	36.15	4.64E+01	1.12E+01
	14	767.78	763 -	772	3.71E+01	26.53	7.77E+01	1.94E+01
	15	791.20	783 -	802	3.26E+01	36.50	1.01E+02	2.85E+01
	16	913.03	909 -	917	2.02E+01	19.04	3.96E+01	1.38E+01
	17	1120.25	1114 -	1125	5.77E+01	29.93	8.07E+01	2.12E+01
	18	1213.77	1203 -	1221	2.73E+01	23.26	3.55E+01	1.71E+01
	19	1238.19	1232 -	1244	3.17E+01	24.98	5.86E+01	1.83E+01
M	20	1376.11	1375 -	1383	7.11E+00	4.80	3.75E+00	3.18E+00
m	21	1380.33	1375 -	1383	7.80E+00	10.62	8.50E+00	4.79E+00
M	22	1401.94	1395 -	1415	1.64E+01	10.62	1.21E+01	5.73E+00
m	23	1408.34	1395 -	1415	1.45E+01	10.81	9.37E+00	5.03E+00
	24	1460.79	1457 -	1463	8.82E+01	22.94	3.17E+01	1.08E+01
	25	1501.14	1498 -	1503	9.50E+00	7.28	3.00E+00	3.18E+00
	26	1509.46	1505 -	1513	1.37E+01	13.00	1.66E+01	8.79E+00
	27	1581.27	1577 -	1584	1.11E+01	8.25	3.85E+00	4.00E+00
	28	1594.75	1590 -	1598	7.50E+00	9.41	9.00E+00	6.29E+00
	29	1729.74	1725 -	1732	1.80E+01	10.95	8.00E+00	5.70E+00
	30	1764.43	1760 -	1767	5.80E+01	15.23	0.00E+00	0.00E+00
	31	1846.93	1842 -	1850	1.40E+01	7.48	0.00E+00	0.00E+00

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1957.33	1953 -	1959	5.00E+00	4.47	0.00E+00	0.00E+00
33	2006.40	2003 -	2008	5.50E+00	6.08	3.00E+00	3.18E+00
34	2203.53	2198 -	2207	1.90E+01	8.72	0.00E+00	0.00E+00
35	2614.20	2610 -	2616	1.92E+01	9.81	3.52E+00	3.61E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	1	42.91	42 -	51	43.27	2.57E+01	24.38	1.48E+02	PM-145
m	2	46.62	42 -	51	46.97	9.99E+01	40.97	2.69E+02	PB-210
	3	76.74	74 -	83	77.08	3.03E+02	91.75	9.78E+02	.....
m	4	88.11	83 -	98	88.45	9.75E+01	47.92	3.88E+02	CD-109
									LU-176
									SN-126
	5	186.09	181 -	190	186.40	1.76E+02	64.01	4.84E+02	RA-226
M	6	238.56	235 -	246	238.85	1.28E+02	36.00	1.85E+02	PB-212
m	7	241.87	235 -	246	242.15	1.00E+02	36.16	1.69E+02	RA-224
	8	295.38	292 -	299	295.65	1.70E+02	48.99	2.84E+02	PB-214
	9	338.29	333 -	344	338.55	7.17E+01	44.36	2.11E+02	AC-228
	10	352.01	348 -	356	352.26	3.71E+02	55.07	2.37E+02	PB-214
	11	583.62	580 -	588	583.79	2.55E+01	26.78	9.50E+01	TL-208
M	12	603.23	599 -	620	603.39	1.74E+01	21.18	9.22E+01	SB-124
m	13	609.34	599 -	620	609.50	2.81E+02	36.15	4.64E+01	BI-214
	14	767.78	763 -	772	767.89	3.71E+01	26.53	7.77E+01	.....
	15	791.20	783 -	802	791.29	3.26E+01	36.50	1.01E+02	.....
	16	913.03	909 -	917	913.09	2.02E+01	19.04	3.96E+01	LU-172
	17	1120.25	1114 -	1125	1120.23	5.77E+01	29.93	8.07E+01	BI-214
									SC-46
	18	1213.77	1203 -	1221	1213.72	2.73E+01	23.26	3.55E+01	.....
	19	1238.19	1232 -	1244	1238.13	3.17E+01	24.98	5.86E+01	CO-56

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	20	1376.11	1375 -	1383	1376.00	7.11E+00	4.80	3.75E+00	.....
m	21	1380.33	1375 -	1383	1380.22	7.80E+00	10.62	8.50E+00	.....
M	22	1401.94	1395 -	1415	1401.82	1.64E+01	10.62	1.21E+01	.....
m	23	1408.34	1395 -	1415	1408.22	1.45E+01	10.81	9.37E+00	EU-152
	24	1460.79	1457 -	1463	1460.65	8.82E+01	22.94	3.17E+01	K-40
	25	1501.14	1498 -	1503	1500.98	9.50E+00	7.28	3.00E+00	.....
	26	1509.46	1505 -	1513	1509.30	1.37E+01	13.00	1.66E+01	.....
	27	1581.27	1577 -	1584	1581.08	1.11E+01	8.25	3.85E+00	.....
	28	1594.75	1590 -	1598	1594.56	7.50E+00	9.41	9.00E+00	.....
	29	1729.74	1725 -	1732	1729.50	1.80E+01	10.95	8.00E+00	.....
	30	1764.43	1760 -	1767	1764.17	5.80E+01	15.23	0.00E+00	BI-214
	31	1846.93	1842 -	1850	1846.64	1.40E+01	7.48	0.00E+00	.....
	32	1957.33	1953 -	1959	1957.00	5.00E+00	4.47	0.00E+00	.....
	33	2006.40	2003 -	2008	2006.05	5.50E+00	6.08	3.00E+00	.....
	34	2203.53	2198 -	2207	2203.11	1.90E+01	8.72	0.00E+00	BI-214
	35	2614.20	2610 -	2616	2613.62	1.92E+01	9.81	3.52E+00	TL-208

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	1	42.91	2.57E+01	24.38	1.43E-02	1.78E-03
m	2	46.62	9.99E+01	40.97	1.69E-02	1.78E-03
	3	76.74	3.03E+02	91.75	2.77E-02	2.36E-03
m	4	88.11	9.75E+01	47.92	2.85E-02	2.74E-03
	5	186.09	1.76E+02	64.01	2.24E-02	2.03E-03
M	6	238.56	1.28E+02	36.00	1.92E-02	1.64E-03
m	7	241.87	1.00E+02	36.16	1.91E-02	1.61E-03
	8	295.38	1.70E+02	48.99	1.67E-02	1.31E-03
	9	338.29	7.17E+01	44.36	1.52E-02	1.22E-03
	10	352.01	3.71E+02	55.07	1.48E-02	1.19E-03
	11	583.62	2.55E+01	26.78	1.02E-02	9.15E-04
M	12	603.23	1.74E+01	21.18	9.90E-03	8.95E-04
m	13	609.34	2.81E+02	36.15	9.83E-03	8.88E-04
	14	767.78	3.71E+01	26.53	8.19E-03	7.39E-04

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	15	791.20	3.26E+01	36.50	8.00E-03	7.18E-04
	16	913.03	2.02E+01	19.04	7.14E-03	6.15E-04
	17	1120.25	5.77E+01	29.93	6.07E-03	5.07E-04
	18	1213.77	2.73E+01	23.26	5.70E-03	4.72E-04
	19	1238.19	3.17E+01	24.98	5.61E-03	4.68E-04
M	20	1376.11	7.11E+00	4.80	5.19E-03	4.40E-04
m	21	1380.33	7.80E+00	10.62	5.18E-03	4.39E-04
M	22	1401.94	1.64E+01	10.62	5.12E-03	4.34E-04
m	23	1408.34	1.45E+01	10.81	5.10E-03	4.32E-04
	24	1460.79	8.82E+01	22.94	4.97E-03	4.19E-04
	25	1501.14	9.50E+00	7.28	4.88E-03	4.09E-04
	26	1509.46	1.37E+01	13.00	4.86E-03	4.07E-04
	27	1581.27	1.11E+01	8.25	4.71E-03	3.89E-04
	28	1594.75	7.50E+00	9.41	4.68E-03	3.86E-04
	29	1729.74	1.80E+01	10.95	4.45E-03	3.52E-04
	30	1764.43	5.80E+01	15.23	4.40E-03	3.44E-04
	31	1846.93	1.40E+01	7.48	4.28E-03	3.26E-04
	32	1957.33	5.00E+00	4.47	4.16E-03	3.26E-04
	33	2006.40	5.50E+00	6.08	4.11E-03	3.26E-04
	34	2203.53	1.90E+01	8.72	3.95E-03	3.26E-04
	35	2614.20	1.92E+01	9.81	3.79E-03	3.26E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
M	1	42.91	2.57E+01	24.38			2.57E+01	2.44E+01
m	2	46.62	9.99E+01	40.97	4.02E+01	8.43E+00	5.97E+01	4.18E+01
	3	76.74	3.03E+02	91.75	1.60E+01	8.83E+00	2.87E+02	9.22E+01
m	4	88.11	9.75E+01	47.92			9.75E+01	4.79E+01
	5	186.09	1.76E+02	64.01	6.47E+01	7.53E+00	1.11E+02	6.44E+01
M	6	238.56	1.28E+02	36.00	1.73E+01	6.30E+00	1.11E+02	3.65E+01
m	7	241.87	1.00E+02	36.16			1.00E+02	3.62E+01
	8	295.38	1.70E+02	48.99	0.00E+00	0.00E+00	1.70E+02	4.90E+01
	9	338.29	7.17E+01	44.36			7.17E+01	4.44E+01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	10	352.01	3.71E+02	55.07	9.78E+00	4.40E+00	3.61E+02	5.53E+01
	11	583.62	2.55E+01	26.78	4.53E+00	3.34E+00	2.10E+01	2.70E+01
M	12	603.23	1.74E+01	21.18			1.74E+01	2.12E+01
m	13	609.34	2.81E+02	36.15	8.81E+00	3.15E+00	2.73E+02	3.63E+01
	14	767.78	3.71E+01	26.53			3.71E+01	2.65E+01
	15	791.20	3.26E+01	36.50			3.26E+01	3.65E+01
	16	913.03	2.02E+01	19.04			2.02E+01	1.90E+01
	17	1120.25	5.77E+01	29.93			5.77E+01	2.99E+01
	18	1213.77	2.73E+01	23.26			2.73E+01	2.33E+01
	19	1238.19	3.17E+01	24.98			3.17E+01	2.50E+01
M	20	1376.11	7.11E+00	4.80			7.11E+00	4.80E+00
m	21	1380.33	7.80E+00	10.62			7.80E+00	1.06E+01
M	22	1401.94	1.64E+01	10.62			1.64E+01	1.06E+01
m	23	1408.34	1.45E+01	10.81			1.45E+01	1.08E+01
	24	1460.79	8.82E+01	22.94	5.85E+00	2.19E+00	8.23E+01	2.30E+01
	25	1501.14	9.50E+00	7.28			9.50E+00	7.28E+00
	26	1509.46	1.37E+01	13.00			1.37E+01	1.30E+01
	27	1581.27	1.11E+01	8.25			1.11E+01	8.25E+00
	28	1594.75	7.50E+00	9.41			7.50E+00	9.41E+00
	29	1729.74	1.80E+01	10.95			1.80E+01	1.10E+01
	30	1764.43	5.80E+01	15.23			5.80E+01	1.52E+01
	31	1846.93	1.40E+01	7.48			1.40E+01	7.48E+00
	32	1957.33	5.00E+00	4.47			5.00E+00	4.47E+00
	33	2006.40	5.50E+00	6.08			5.50E+00	6.08E+00
	34	2203.53	1.90E+01	8.72	1.36E-01	1.12E+00	1.89E+01	8.79E+00
	35	2614.20	1.92E+01	9.81	5.15E+00	1.50E+00	1.41E+01	9.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:25:25PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025966.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	1	42.91	2.57E+01	24.38			2.57E+01	2.44E+01
m	2	46.62	9.99E+01	40.97	4.02E+01	8.43E+00	5.97E+01	4.18E+01

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Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	3	76.74	3.03E+02	91.75	1.60E+01	8.83E+00	2.87E+02	9.22E+01
m	4	88.11	9.75E+01	47.92			9.75E+01	4.79E+01
	5	186.09	1.76E+02	64.01	6.47E+01	7.53E+00	1.11E+02	6.44E+01
M	6	238.56	1.28E+02	36.00	1.73E+01	6.30E+00	1.11E+02	3.65E+01
m	7	241.87	1.00E+02	36.16			1.00E+02	3.62E+01
	8	295.38	1.70E+02	48.99	0.00E+00	0.00E+00	1.70E+02	4.90E+01
	9	338.29	7.17E+01	44.36			7.17E+01	4.44E+01
	10	352.01	3.71E+02	55.07	9.78E+00	4.40E+00	3.61E+02	5.53E+01
	11	583.62	2.55E+01	26.78	4.53E+00	3.34E+00	2.10E+01	2.70E+01
M	12	603.23	1.74E+01	21.18			1.74E+01	2.12E+01
m	13	609.34	2.81E+02	36.15	8.81E+00	3.15E+00	2.73E+02	3.63E+01
	14	767.78	3.71E+01	26.53			3.71E+01	2.65E+01
	15	791.20	3.26E+01	36.50			3.26E+01	3.65E+01
	16	913.03	2.02E+01	19.04			2.02E+01	1.90E+01
	17	1120.25	5.77E+01	29.93			5.77E+01	2.99E+01
	18	1213.77	2.73E+01	23.26			2.73E+01	2.33E+01
	19	1238.19	3.17E+01	24.98			3.17E+01	2.50E+01
M	20	1376.11	7.11E+00	4.80			7.11E+00	4.80E+00
m	21	1380.33	7.80E+00	10.62			7.80E+00	1.06E+01
M	22	1401.94	1.64E+01	10.62			1.64E+01	1.06E+01
m	23	1408.34	1.45E+01	10.81			1.45E+01	1.08E+01
	24	1460.79	8.82E+01	22.94	5.85E+00	2.19E+00	8.23E+01	2.30E+01
	25	1501.14	9.50E+00	7.28			9.50E+00	7.28E+00
	26	1509.46	1.37E+01	13.00			1.37E+01	1.30E+01
	27	1581.27	1.11E+01	8.25			1.11E+01	8.25E+00
	28	1594.75	7.50E+00	9.41			7.50E+00	9.41E+00
	29	1729.74	1.80E+01	10.95			1.80E+01	1.10E+01
	30	1764.43	5.80E+01	15.23			5.80E+01	1.52E+01
	31	1846.93	1.40E+01	7.48			1.40E+01	7.48E+00
	32	1957.33	5.00E+00	4.47			5.00E+00	4.47E+00
	33	2006.40	5.50E+00	6.08			5.50E+00	6.08E+00
	34	2203.53	1.90E+01	8.72	1.36E-01	1.12E+00	1.89E+01	8.79E+00
	35	2614.20	1.92E+01	9.81	5.15E+00	1.50E+00	1.41E+01	9.93E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.000	1460.81	*	10.67	1.72E+00	5.03E-01
CD-109	0.999	88.03	*	3.72	1.06E+00	5.34E-01
SB-124	0.430	602.71	*	97.87	2.69E-02	3.28E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
SN-126	0.955	87.57	*	37.00	1.02E-01	5.12E-02
TL-208	0.858	583.14	*	30.22	7.56E-02	9.75E-02
		860.37		4.48		
		2614.66	*	35.85	1.15E-01	8.13E-02
PB-210	0.998	46.50	*	4.25	9.23E-01	6.54E-01
PB-212	0.893	238.63	*	44.60	1.43E-01	4.87E-02
		300.09		3.41		
BI-214	0.995	609.31	*	46.30	6.63E-01	1.07E-01
		1120.29	*	15.10	6.97E-01	3.66E-01
		1764.49	*	15.80	9.24E-01	2.53E-01
		2204.22	*	4.98	1.06E+00	5.02E-01
PB-214	0.998	295.21	*	19.19	5.88E-01	1.76E-01
		351.92	*	37.19	7.29E-01	1.26E-01
RA-224	0.882	240.98	*	3.95	1.48E+00	5.46E-01
RA-226	0.998	186.21	*	3.28	1.68E+00	3.22E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:25PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	42.91	7.12932E-03	47.50	Tol.	PM-145
	3	76.74	7.97424E-02	16.05		
	9	338.29	1.99294E-02	30.92	Tol.	AC-228
	14	767.78	1.03143E-02	35.73		
	15	791.20	9.04619E-03	56.03		
	16	913.03	5.61111E-03	47.13	Tol.	LU-172
	18	1213.77	7.57407E-03	42.65		
	19	1238.19	8.80009E-03	39.43		

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	20	1376.11	1.97610E-03	33.71		
m	21	1380.33	2.16804E-03	68.02		
M	22	1401.94	4.55709E-03	32.36		
m	23	1408.34	4.02751E-03	37.26	Tol.	EU-152
	25	1501.14	2.63889E-03	38.32		
	26	1509.46	3.80051E-03	47.51		
	27	1581.27	3.07692E-03	37.22		
	28	1594.75	2.08333E-03	62.72		
	29	1729.74	5.00000E-03	30.43	Sum	
	31	1846.93	3.88889E-03	26.73		
	32	1957.33	1.38889E-03	44.72		
	33	2006.40	1.52778E-03	55.30	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	1.00	1460.81	*	10.67	1.72E+00	5.03E-01
CD-109	0.99	88.03	*	3.72	1.06E+00	5.34E-01
SB-124	0.43	602.71	*	97.87	2.69E-02	3.28E-02
		645.85		7.26		
		722.78		11.10		
		1691.02		49.00		
SN-126	0.95	87.57	*	37.00	1.02E-01	5.12E-02
TL-208	0.85	583.14	*	30.22	7.56E-02	9.75E-02
		860.37		4.48		
		2614.66	*	35.85	1.15E-01	8.13E-02
PB-210	0.99	46.50	*	4.25	9.23E-01	6.54E-01
PB-212	0.89	238.63	*	44.60	1.43E-01	4.87E-02
		300.09		3.41		
BI-214	0.99	609.31	*	46.30	6.63E-01	1.07E-01
		1120.29	*	15.10	6.97E-01	3.66E-01
		1764.49	*	15.80	9.24E-01	2.53E-01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.99	2204.22	*	4.98	1.06E+00	5.02E-01
PB-214	0.99	295.21	*	19.19	5.88E-01	1.76E-01
		351.92	*	37.19	7.29E-01	1.26E-01
RA-224	0.88	240.98	*	3.95	1.48E+00	5.46E-01
RA-226	0.99	186.21	*	3.28	1.68E+00	3.22E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	1.000	1.72E+00	5.03E-01	
?	CD-109	0.999	1.06E+00	5.34E-01	
	SB-124	0.430	2.69E-02	3.28E-02	
?	SN-126	0.955	1.02E-01	5.12E-02	
	TL-208	0.858	9.86E-02	6.25E-02	
	PB-210	0.998	9.23E-01	6.54E-01	
	PB-212	0.893	1.43E-01	4.87E-02	
	BI-214	0.995	7.14E-01	9.33E-02	
	PB-214	0.998	6.81E-01	1.02E-01	
	RA-224	0.882	1.48E+00	5.46E-01	
	RA-226	0.998	1.68E+00	3.22E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:25PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	1	42.91	7.12932E-03	47.50	Tol.	PM-145
	3	76.74	7.97424E-02	16.05		
	9	338.29	1.99294E-02	30.92	Tol.	AC-228
	14	767.78	1.03143E-02	35.73		
	15	791.20	9.04619E-03	56.03		
	16	913.03	5.61111E-03	47.13	Tol.	LU-172
	18	1213.77	7.57407E-03	42.65		
	19	1238.19	8.80009E-03	39.43		
M	20	1376.11	1.97610E-03	33.71		
m	21	1380.33	2.16804E-03	68.02		
M	22	1401.94	4.55709E-03	32.36		
m	23	1408.34	4.02751E-03	37.26	Tol.	EU-152
	25	1501.14	2.63889E-03	38.32		
	26	1509.46	3.80051E-03	47.51		
	27	1581.27	3.07692E-03	37.22		
	28	1594.75	2.08333E-03	62.72		
	29	1729.74	5.00000E-03	30.43	Sum	
	31	1846.93	3.88889E-03	26.73		
	32	1957.33	1.38889E-03	44.72		
	33	2006.40	1.52778E-03	55.30	Sum	

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-5.20E-02	4.15E-01	4.15E-01
+	NA-22	1274.54		99.94	2.70E-02	4.61E-02	4.61E-02
+	NA-24	1368.53		99.99	-2.52E+10	1.00E+11	1.86E+11
		2754.09		99.86	-9.55E+10		1.00E+11
+	AL-26	1808.65		99.76	-3.41E-03	2.76E-02	2.76E-02
+	K-40	1460.81	*	10.67	1.72E+00	5.44E-01	5.44E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-1.86E-02	3.66E-02	3.66E-02
		78.34		96.00	5.84E-02		4.13E-02
+	SC-46	889.25		99.98	-1.08E-02	4.90E-02	4.90E-02
		1120.51		99.99	1.23E-01		9.87E-02
+	V-48	983.52		99.98	-6.70E-03	1.25E-01	1.34E-01
		1312.10		97.50	-3.97E-02		1.25E-01
+	CR-51	320.08		9.83	-2.02E-01	5.30E-01	5.30E-01
+	MN-54	834.83		99.97	-3.38E-03	4.25E-02	4.25E-02
+	CO-56	846.75		99.96	3.64E-02	5.85E-02	5.85E-02
		1037.75		14.03	-1.93E-01		2.69E-01
		1238.25		67.00	6.86E-02		1.23E-01
		1771.40		15.51	-2.49E-02		3.08E-01
		2598.48		16.90	7.25E-03		2.02E-01
+	CO-57	122.06		85.51	-5.70E-04	3.17E-02	3.17E-02
		136.48		10.60	3.13E-02		2.82E-01
+	CO-58	810.76		99.40	-4.45E-03	5.40E-02	5.40E-02
+	FE-59	1099.22		56.50	-9.92E-02	8.68E-02	8.68E-02
		1291.56		43.20	-3.90E-02		1.33E-01
+	CO-60	1173.22		100.00	-5.09E-03	3.96E-02	3.96E-02
		1332.49		100.00	2.50E-03		4.48E-02
+	ZN-65	1115.52		50.75	-3.60E-01	1.10E-01	1.10E-01
+	GA-67	93.31		35.70	5.30E+01	2.83E+01	2.83E+01
		208.95		2.24	-7.41E+01		3.36E+02
		300.22		16.00	2.62E+01		5.29E+01
+	SE-75	121.11		16.70	-4.94E-02	5.49E-02	1.74E-01
		136.00		59.20	3.72E-02		5.49E-02
		264.65		59.80	1.20E-03		5.65E-02
		279.53		25.20	-4.45E-03		1.27E-01
		400.65		11.40	-6.11E-02		2.96E-01
+	RB-82	776.52		13.00	2.16E-01	5.25E-01	5.25E-01
+	RB-83	520.41		46.00	-7.69E-03	8.81E-02	8.81E-02
		529.64		30.30	-2.27E-02		1.21E-01
		552.65		16.40	-3.90E-02		2.59E-01
+	KR-85	513.99		0.43	7.29E+00	1.14E+01	1.14E+01
+	SR-85	513.99		99.27	4.20E-02	6.59E-02	6.59E-02
+	Y-88	898.02		93.40	-6.33E-03	4.03E-02	5.40E-02
		1836.01		99.38	-7.07E-03		4.03E-02
+	NB-93M	16.57		9.43	-2.03E+01	4.32E+01	4.32E+01
+	NB-94	702.63		100.00	1.55E-02	3.60E-02	3.60E-02
		871.10		100.00	-4.74E-03		3.74E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	8.18E-02	9.20E-02	9.20E-02
+	NB-95M	235.69		25.00	-3.95E+01	1.89E+01	1.89E+01
+	ZR-95	724.18		43.70	-6.37E-02	8.91E-02	1.17E-01
		756.72		55.30	2.71E-03		8.91E-02
+	MO-99	181.06		6.20	1.67E+01	2.28E+02	3.36E+02
		739.58		12.80	-1.40E+01		2.28E+02
		778.00		4.50	1.23E+02		5.39E+02
+	RU-103	497.08		89.00	-1.77E-03	5.14E-02	5.14E-02
+	RU-106	621.84		9.80	5.71E-03	3.76E-01	3.76E-01
+	AG-108M	433.93		89.90	3.40E-02	4.08E-02	4.17E-02
		614.37		90.40	-2.48E-01		4.08E-02
		722.95		90.50	-1.54E-02		4.41E-02
+	CD-109	88.03	*	3.72	1.06E+00	1.88E+00	1.88E+00
+	AG-110M	657.75		93.14	1.19E-02	3.77E-02	3.77E-02
		677.61		10.53	-4.83E-02		3.47E-01
		706.67		16.46	-8.38E-02		2.03E-01
		763.93		21.98	-1.54E-02		2.16E-01
		884.67		71.63	1.70E-03		5.34E-02
		1384.27		23.94	6.02E-04		1.75E-01
+	CD-113M	263.70		0.02	4.63E+00	1.28E+02	1.28E+02
+	SN-113	255.12		1.93	1.49E-02	5.10E-02	1.79E+00
		391.69		64.90	-4.53E-03		5.10E-02
+	TE123M	159.00		84.10	1.32E-03	3.96E-02	3.96E-02
+	SB-124	602.71	*	97.87	2.69E-02	9.56E-02	1.31E-01
		645.85		7.26	-1.03E-01		6.10E-01
		722.78		11.10	-1.70E-01		4.87E-01
		1691.02		49.00	6.21E-03		9.56E-02
+	I-125	35.49		6.49	1.18E+00	1.69E+00	1.69E+00
+	SB-125	176.33		6.89	1.28E-01	1.14E-01	4.14E-01
		427.89		29.33	-5.94E-02		1.14E-01
		463.38		10.35	-6.64E-03		3.57E-01
		600.56		17.80	1.36E-01		2.43E-01
		635.90		11.32	0.00E+00		3.44E-01
+	SB-126	414.70		83.30	3.65E-02	1.59E-01	1.78E-01
		666.33		99.60	3.59E-02		1.59E-01
		695.00		99.60	8.69E-02		1.73E-01
		720.50		53.80	1.73E-01		3.26E-01
+	SN-126	87.57	*	37.00	1.02E-01	1.81E-01	1.81E-01
+	SB-127	473.00		25.00	-1.39E+00	1.24E+01	1.39E+01
		685.20		35.70	2.44E+00		1.24E+01
		783.80		14.70	-4.26E+00		2.50E+01
+	I-129	29.78		57.00	1.77E-01	2.71E-01	2.71E-01
		33.60		13.20	3.11E-01		7.28E-01
		39.58		7.52	3.44E-01		7.09E-01
+	I-131	284.30		6.05	-1.12E+00	3.70E-01	4.57E+00
		364.48		81.20	2.38E-01		3.70E-01
		636.97		7.26	1.28E+00		5.26E+00
		722.89		1.80	-7.48E+00		2.14E+01

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		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	-1.45E+02	9.18E+00	7.68E+01
			228.16	88.00	3.38E+00		9.18E+00
+		BA-133	81.00	33.00	-1.72E-01	5.05E-02	8.70E-02
			302.84	17.80	5.05E-02		1.69E-01
			356.01	60.00	2.85E-03		5.05E-02
+		I-133	529.87	86.30	-8.82E+06	4.72E+07	4.72E+07
+		XE-133	81.00	38.00	-4.81E+00	2.43E+00	2.43E+00
+		CS-134	563.23	8.38	2.51E-02	4.83E-02	4.21E-01
			569.32	15.43	-4.81E-02		2.09E-01
			604.70	97.60	-4.85E-01		4.83E-02
			795.84	85.40	4.24E-03		5.04E-02
			801.93	8.73	-7.68E-02		4.69E-01
+		CS-135	268.24	16.00	4.18E-02	1.96E-01	1.96E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	4.77E-01	1.70E-01	1.59E+00
			163.89	4.61	3.26E-01		2.40E+00
			176.55	13.56	2.55E-01		8.25E-01
			273.65	12.66	-4.88E-01		8.71E-01
			340.57	48.50	1.14E-01		2.77E-01
			818.50	99.70	5.98E-02		1.70E-01
			1048.07	79.60	-4.34E-02		1.85E-01
			1235.34	19.70	1.73E-01		1.17E+00
+		CS-137	661.65	85.12	-2.32E-02	3.80E-02	3.80E-02
+		LA-138	788.74	34.00	-3.50E-02	4.37E-02	1.11E-01
			1435.80	66.00	-2.57E-02		4.37E-02
+		CE-139	165.85	80.35	-8.14E-04	3.92E-02	3.92E-02
+		BA-140	162.64	6.70	-3.29E-01	6.06E-01	1.72E+00
			304.84	4.50	-1.34E+00		2.48E+00
			423.70	3.20	1.06E+00		4.45E+00
			437.55	2.00	7.33E-01		7.18E+00
			537.32	25.00	-2.55E-02		6.06E-01
+		LA-140	328.77	20.50	1.71E-01	1.94E-01	5.95E-01
			487.03	45.50	1.20E-01		3.28E-01
			815.85	23.50	-4.28E-01		6.74E-01
			1596.49	95.49	1.12E-01		1.94E-01
+		CE-141	145.44	48.40	1.11E-02	1.02E-01	1.02E-01
+		CE-143	57.36	11.80	-6.35E+03	6.94E+04	1.73E+05
			293.26	42.00	1.41E+05		6.94E+04
			664.55	5.20	-3.62E+03		3.91E+05
+		CE-144	133.54	10.80	-7.85E-02	2.59E-01	2.59E-01
+		PM-144	476.78	42.00	-4.32E-02	3.72E-02	7.43E-02
			618.01	98.60	-1.40E-02		3.72E-02
			696.49	99.49	-4.62E-03		3.99E-02
+		PM-145	36.85	21.70	1.35E-01	1.70E-01	3.31E-01
			37.36	39.70	7.25E-03		1.70E-01
			42.30	15.10	-4.10E-01		3.16E-01
			72.40	2.31	8.38E-01		1.67E+00

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90	39.94	-2.50E-02	7.72E-02	7.72E-02
		735.90	14.01	-1.09E-01		2.61E-01
		747.13	13.10	-6.03E-02		2.69E-01
+	ND-147	91.11	28.90	-1.79E-01	6.88E-01	6.88E-01
		531.02	13.10	-4.07E-03		1.23E+00
+	PM-149	285.90	3.10	-1.42E+02	3.61E+03	3.61E+03
+	EU-152	121.78	20.50	-2.23E-03	1.24E-01	1.24E-01
		244.69	5.40	9.34E-02		6.04E-01
		344.27	19.13	-3.68E-02		1.56E-01
		778.89	9.20	-2.67E-02		3.26E-01
		964.01	10.40	-2.11E-01		3.76E-01
		1085.78	7.22	8.45E-02		6.31E-01
		1112.02	9.60	-2.56E-01		5.10E-01
		1407.95	14.94	5.65E-02		3.43E-01
+	GD-153	97.43	31.30	5.84E-03	8.80E-02	8.80E-02
		103.18	22.20	-4.72E-02		1.28E-01
+	EU-154	123.07	40.50	-1.11E-02	6.28E-02	6.28E-02
		723.30	19.70	-7.12E-02		2.04E-01
		873.19	11.50	1.26E-01		3.58E-01
		996.32	10.30	-1.19E-01		4.36E-01
		1004.76	17.90	-5.32E-02		2.35E-01
		1274.45	35.50	7.50E-02		1.28E-01
+	EU-155	86.50	30.90	1.33E-01	1.13E-01	1.13E-01
		105.30	20.70	5.79E-02		1.35E-01
+	EU-156	811.77	10.40	-4.21E-01	1.27E+00	1.27E+00
		1153.47	7.20	1.12E+00		2.02E+00
		1230.71	8.90	9.52E-02		1.64E+00
+	HO-166M	184.41	72.60	9.06E-02	5.46E-02	5.46E-02
		280.45	29.60	-2.33E-02		9.13E-02
		410.94	11.10	-1.38E-01		2.81E-01
		711.69	54.10	3.88E-02		7.01E-02
+	TM-171	66.72	0.14	-3.71E+01	2.69E+01	2.69E+01
+	HF-172	81.75	4.52	-6.78E-01	2.38E-01	6.38E-01
		125.81	11.30	4.74E-02		2.38E-01
+	LU-172	181.53	20.60	-1.62E+00	9.02E-01	2.04E+00
		810.06	16.63	6.64E-01		3.89E+00
		912.12	15.25	1.75E+00		4.54E+00
		1093.66	62.50	-1.96E-01		9.02E-01
+	LU-173	100.72	5.24	1.14E-01	1.53E-01	5.12E-01
		272.11	21.20	8.74E-02		1.53E-01
+	HF-175	343.40	84.00	-3.73E-03	4.70E-02	4.70E-02
+	LU-176	88.34	13.30	6.42E-02	3.00E-02	2.56E-01
		201.83	86.00	-1.56E-02		3.43E-02
		306.78	94.00	1.06E-02		3.00E-02
+	TA-182	67.75	41.20	-4.99E-02	9.84E-02	9.84E-02
		1121.30	34.90	4.06E-01		2.69E-01
		1189.05	16.23	-2.81E-01		2.60E-01
		1221.41	26.98	-2.97E-02		1.60E-01
		1231.02	11.44	2.61E-02		4.52E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-7.10E-02	8.57E-02	1.15E-01
		468.07		48.10	-4.30E-02		8.57E-02
+	HG-203	279.19		77.30	1.82E-03	5.29E-02	5.29E-02
+	BI-207	569.67		97.72	4.45E-03	3.27E-02	3.27E-02
		1063.62		74.90	2.57E-02		6.50E-02
+	TL-208	583.14	*	30.22	7.56E-02	1.09E-01	1.60E-01
		860.37		4.48	4.35E-01		9.58E-01
		2614.66	*	35.85	1.15E-01		1.09E-01
+	BI-210M	262.00		45.00	-2.31E-02	6.24E-02	6.24E-02
		300.00		23.00	6.79E-02		1.37E-01
+	PB-210	46.50	*	4.25	9.23E-01	1.53E+00	1.53E+00
+	PB-211	404.84		2.90	1.22E-01	1.05E+00	1.05E+00
		831.96		2.90	-1.98E-01		1.38E+00
+	BI-212	727.17		11.80	4.06E-02	3.48E-01	3.48E-01
		1620.62		2.75	-3.91E-01		1.04E+00
+	PB-212	238.63	*	44.60	1.43E-01	1.20E-01	1.20E-01
		300.09		3.41	4.58E-01		9.26E-01
+	BI-214	609.31	*	46.30	6.63E-01	4.31E-02	2.04E-01
		1120.29	*	15.10	6.97E-01		5.45E-01
		1764.49	*	15.80	9.24E-01		4.31E-02
		2204.22	*	4.98	1.06E+00		2.77E-01
+	PB-214	295.21	*	19.19	5.88E-01	1.38E-01	2.45E-01
		351.92	*	37.19	7.29E-01		1.38E-01
+	RN-219	401.80		6.50	7.48E-02	4.87E-01	4.87E-01
+	RA-223	323.87		3.88	3.60E-01	8.17E-01	8.17E-01
+	RA-224	240.98	*	3.95	1.48E+00	1.34E+00	1.34E+00
+	RA-225	40.00		31.00	2.79E-01	5.74E-01	5.74E-01
+	RA-226	186.21	*	3.28	1.68E+00	1.55E+00	1.55E+00
+	TH-227	50.10		8.40	-8.28E-01	2.64E-01	4.39E-01
		236.00		11.50	-5.51E-01		2.64E-01
		256.20		6.30	-2.04E-02		4.71E-01
+	AC-228	338.32		11.40	4.78E-02	1.69E-01	2.96E-01
		911.07		27.70	8.10E-02		1.69E-01
		969.11		16.60	1.01E-01		2.88E-01
+	TH-230	48.44		16.90	1.89E-01	2.69E-01	2.69E-01
		62.85		4.60	1.94E+00		9.64E-01
		67.67		0.37	-4.74E+00		9.35E+00
+	PA-231	283.67		1.60	-2.68E-02	1.30E+00	1.78E+00
		302.67		2.30	3.89E-01		1.30E+00
+	TH-231	25.64		14.70	-2.70E+00	4.76E-01	2.74E+00
		84.21		6.40	-5.57E-01		4.76E-01
+	PA-233	311.98		38.60	2.76E-02	1.51E-01	1.51E-01
+	PA-234	131.20		20.40	9.62E-03	1.29E-01	1.29E-01
		733.99		8.80	1.25E-01		4.42E-01
		946.00		12.00	2.39E-02		3.45E-01
+	PA-234M	1001.03		0.92	2.10E+00	5.48E+00	5.48E+00
+	TH-234	63.29		3.80	2.10E+00	1.16E+00	1.16E+00

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	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	-3.28E-02	2.69E-01	2.69E-01
		163.35	4.70	7.99E-02		5.88E-01
		205.31	4.70	-1.65E-01		6.05E-01
+	NP-237	86.50	12.60	3.24E-01	2.75E-01	2.75E-01
+	NP-239	106.10	22.70	1.20E+02	2.81E+02	2.81E+02
		228.18	10.70	2.38E+02		6.46E+02
		277.60	14.10	-1.07E+02		4.35E+02
+	AM-241	59.54	35.90	-2.54E-01	9.66E-02	9.66E-02
+	AM-243	74.67	66.00	-8.18E-02	6.37E-02	6.37E-02
+	CM-243	209.75	3.29	-3.65E-01	1.91E-01	8.47E-01
		228.14	10.60	1.04E-01		2.84E-01
		277.60	14.00	-4.71E-02		1.91E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	4.15E-01	4.15E-01	-5.20E-02	1.90E-01
	NA-22	1274.54		99.94	4.61E-02	4.61E-02	2.70E-02	2.03E-02
	NA-24	1368.53		99.99	1.86E+11	1.00E+11	-2.52E+10	7.98E+10
		2754.09		99.86	1.00E+11		-9.55E+10	3.17E+10
	AL-26	1808.65		99.76	2.76E-02	2.76E-02	-3.41E-03	1.03E-02
+	K-40	1460.81	*	10.67	5.44E-01	5.44E-01	1.72E+00	2.44E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	3.66E-02	3.66E-02	-1.86E-02	1.77E-02
		78.34		96.00	4.13E-02		5.84E-02	2.01E-02
	SC-46	889.25		99.98	4.90E-02	4.90E-02	-1.08E-02	2.20E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	9.87E-02	4.90E-02	1.23E-01	4.63E-02
	V-48	983.52		99.98	1.34E-01	1.25E-01	-6.70E-03	6.00E-02
		1312.10		97.50	1.25E-01		-3.97E-02	5.33E-02
	CR-51	320.08		9.83	5.30E-01	5.30E-01	-2.02E-01	2.46E-01
	MN-54	834.83		99.97	4.25E-02	4.25E-02	-3.38E-03	1.92E-02
	CO-56	846.75		99.96	5.85E-02	5.85E-02	3.64E-02	2.67E-02
		1037.75		14.03	2.69E-01		-1.93E-01	1.13E-01
		1238.25		67.00	1.23E-01		6.86E-02	5.66E-02
		1771.40		15.51	3.08E-01		-2.49E-02	1.26E-01
		2598.48		16.90	2.02E-01		7.25E-03	7.15E-02
	CO-57	122.06		85.51	3.17E-02	3.17E-02	-5.70E-04	1.52E-02
		136.48		10.60	2.82E-01		3.13E-02	1.35E-01
	CO-58	810.76		99.40	5.40E-02	5.40E-02	-4.45E-03	2.45E-02
	FE-59	1099.22		56.50	8.68E-02	8.68E-02	-9.92E-02	3.69E-02
		1291.56		43.20	1.33E-01		-3.90E-02	5.71E-02
	CO-60	1173.22		100.00	3.96E-02	3.96E-02	-5.09E-03	1.72E-02
		1332.49		100.00	4.48E-02		2.50E-03	1.96E-02
	ZN-65	1115.52		50.75	1.10E-01	1.10E-01	-3.60E-01	5.00E-02
	GA-67	93.31		35.70	2.83E+01	2.83E+01	5.30E+01	1.38E+01
		208.95		2.24	3.36E+02		-7.41E+01	1.59E+02
		300.22		16.00	5.29E+01		2.62E+01	2.49E+01
	SE-75	121.11		16.70	1.74E-01	5.49E-02	-4.94E-02	8.31E-02
		136.00		59.20	5.49E-02		3.72E-02	2.63E-02
		264.65		59.80	5.65E-02		1.20E-03	2.66E-02
		279.53		25.20	1.27E-01		-4.45E-03	5.95E-02
		400.65		11.40	2.96E-01		-6.11E-02	1.37E-01
	RB-82	776.52		13.00	5.25E-01	5.25E-01	2.16E-01	2.33E-01
	RB-83	520.41		46.00	8.81E-02	8.81E-02	-7.69E-03	4.04E-02
		529.64		30.30	1.21E-01		-2.27E-02	5.51E-02
		552.65		16.40	2.59E-01		-3.90E-02	1.19E-01
	KR-85	513.99		0.43	1.14E+01	1.14E+01	7.29E+00	5.40E+00
	SR-85	513.99		99.27	6.59E-02	6.59E-02	4.20E-02	3.12E-02
	Y-88	898.02		93.40	5.40E-02	4.03E-02	-6.33E-03	2.44E-02
		1836.01		99.38	4.03E-02		-7.07E-03	1.60E-02
	NB-93M	16.57		9.43	4.32E+01	4.32E+01	-2.03E+01	1.97E+01
	NB-94	702.63		100.00	3.60E-02	3.60E-02	1.55E-02	1.63E-02
		871.10		100.00	3.74E-02		-4.74E-03	1.67E-02
	NB-95	765.79		99.81	9.20E-02	9.20E-02	8.18E-02	4.29E-02
	NB-95M	235.69		25.00	1.89E+01	1.89E+01	-3.95E+01	8.97E+00
	ZR-95	724.18		43.70	1.17E-01	8.91E-02	-6.37E-02	5.32E-02
		756.72		55.30	8.91E-02		2.71E-03	4.02E-02
	MO-99	181.06		6.20	3.36E+02	2.28E+02	1.67E+01	1.60E+02
		739.58		12.80	2.28E+02		-1.40E+01	1.03E+02
		778.00		4.50	5.39E+02		1.23E+02	2.38E+02
	RU-103	497.08		89.00	5.14E-02	5.14E-02	-1.77E-03	2.34E-02
	RU-106	621.84		9.80	3.76E-01	3.76E-01	5.71E-03	1.71E-01
	AG-108M	433.93		89.90	4.17E-02	4.08E-02	3.40E-02	1.95E-02
		614.37		90.40	4.08E-02		-2.48E-01	1.87E-02
		722.95		90.50	4.41E-02		-1.54E-02	2.01E-02
+	CD-109	88.03	*	3.72	1.88E+00	1.88E+00	1.06E+00	9.23E-01
	AG-110M	657.75		93.14	3.77E-02	3.77E-02	1.19E-02	1.70E-02
		677.61		10.53	3.47E-01		-4.83E-02	1.57E-01
		706.67		16.46	2.03E-01		-8.38E-02	9.02E-02

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	2.16E-01	3.77E-02	-1.54E-02	9.92E-02
		884.67		71.63	5.34E-02		1.70E-03	2.36E-02
		1384.27		23.94	1.75E-01		6.02E-04	7.43E-02
	CD-113M	263.70		0.02	1.28E+02	1.28E+02	4.63E+00	6.02E+01
	SN-113	255.12		1.93	1.79E+00	5.10E-02	1.49E-02	8.45E-01
		391.69		64.90	5.10E-02		-4.53E-03	2.35E-02
	TE123M	159.00		84.10	3.96E-02	3.96E-02	1.32E-03	1.90E-02
+	SB-124	602.71	*	97.87	1.31E-01	9.56E-02	2.69E-02	6.33E-02
		645.85		7.26	6.10E-01		-1.03E-01	2.75E-01
		722.78		11.10	4.87E-01		-1.70E-01	2.22E-01
		1691.02		49.00	9.56E-02		6.21E-03	3.86E-02
	I-125	35.49		6.49	1.69E+00	1.69E+00	1.18E+00	8.09E-01
	SB-125	176.33		6.89	4.14E-01	1.14E-01	1.28E-01	1.97E-01
		427.89		29.33	1.14E-01		-5.94E-02	5.31E-02
		463.38		10.35	3.57E-01		-6.64E-03	1.66E-01
		600.56		17.80	2.43E-01		1.36E-01	1.13E-01
		635.90		11.32	3.44E-01		0.00E+00	1.58E-01
	SB-126	414.70		83.30	1.78E-01	1.59E-01	3.65E-02	8.32E-02
		666.33		99.60	1.59E-01		3.59E-02	7.26E-02
		695.00		99.60	1.73E-01		8.69E-02	7.92E-02
		720.50		53.80	3.26E-01		1.73E-01	1.49E-01
+	SN-126	87.57	*	37.00	1.81E-01	1.81E-01	1.02E-01	8.93E-02
	SB-127	473.00		25.00	1.39E+01	1.24E+01	-1.39E+00	6.38E+00
		685.20		35.70	1.24E+01		2.44E+00	5.65E+00
		783.80		14.70	2.50E+01		-4.26E+00	1.11E+01
	I-129	29.78		57.00	2.71E-01	2.71E-01	1.77E-01	1.29E-01
		33.60		13.20	7.28E-01		3.11E-01	3.48E-01
		39.58		7.52	7.09E-01		3.44E-01	3.38E-01
	I-131	284.30		6.05	4.57E+00	3.70E-01	-1.12E+00	2.15E+00
		364.48		81.20	3.70E-01		2.38E-01	1.73E-01
		636.97		7.26	5.26E+00		1.28E+00	2.42E+00
		722.89		1.80	2.14E+01		-7.48E+00	9.77E+00
	TE-132	49.72		13.10	7.68E+01	9.18E+00	-1.45E+02	3.67E+01
		228.16		88.00	9.18E+00		3.38E+00	4.36E+00
	BA-133	81.00		33.00	8.70E-02	5.05E-02	-1.72E-01	4.19E-02
		302.84		17.80	1.69E-01		5.05E-02	7.93E-02
		356.01		60.00	5.05E-02		2.85E-03	2.35E-02
	I-133	529.87		86.30	4.72E+07	4.72E+07	-8.82E+06	2.14E+07
	XE-133	81.00		38.00	2.43E+00	2.43E+00	-4.81E+00	1.17E+00
	CS-134	563.23		8.38	4.21E-01	4.83E-02	2.51E-02	1.93E-01
		569.32		15.43	2.09E-01		-4.81E-02	9.48E-02
		604.70		97.60	4.83E-02		-4.85E-01	2.25E-02
		795.84		85.40	5.04E-02		4.24E-03	2.29E-02
		801.93		8.73	4.69E-01		-7.68E-02	2.12E-01
	CS-135	268.24		16.00	1.96E-01	1.96E-01	4.18E-02	9.26E-02
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.59E+00	1.70E-01	4.77E-01	7.62E-01
		163.89		4.61	2.40E+00		3.26E-01	1.15E+00
		176.55		13.56	8.25E-01		2.55E-01	3.93E-01
		273.65		12.66	8.71E-01		-4.88E-01	4.09E-01
		340.57		48.50	2.77E-01		1.14E-01	1.30E-01

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Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	1.70E-01	1.70E-01	5.98E-02	7.73E-02
	1048.07	79.60	1.85E-01		-4.34E-02	8.09E-02
	1235.34	19.70	1.17E+00		1.73E-01	5.33E-01
CS-137	661.65	85.12	3.80E-02	3.80E-02	-2.32E-02	1.71E-02
LA-138	788.74	34.00	1.11E-01	4.37E-02	-3.50E-02	4.99E-02
	1435.80	66.00	4.37E-02		-2.57E-02	1.73E-02
CE-139	165.85	80.35	3.92E-02	3.92E-02	-8.14E-04	1.87E-02
BA-140	162.64	6.70	1.72E+00	6.06E-01	-3.29E-01	8.21E-01
	304.84	4.50	2.48E+00		-1.34E+00	1.16E+00
	423.70	3.20	4.45E+00		1.06E+00	2.07E+00
	437.55	2.00	7.18E+00		7.33E-01	3.34E+00
	537.32	25.00	6.06E-01		-2.55E-02	2.80E-01
LA-140	328.77	20.50	5.95E-01	1.94E-01	1.71E-01	2.78E-01
	487.03	45.50	3.28E-01		1.20E-01	1.52E-01
	815.85	23.50	6.74E-01		-4.28E-01	3.03E-01
	1596.49	95.49	1.94E-01		1.12E-01	8.30E-02
CE-141	145.44	48.40	1.02E-01	1.02E-01	1.11E-02	4.90E-02
CE-143	57.36	11.80	1.73E+05	6.94E+04	-6.35E+03	8.31E+04
	293.26	42.00	6.94E+04		1.41E+05	3.35E+04
	664.55	5.20	3.91E+05		-3.62E+03	1.78E+05
CE-144	133.54	10.80	2.59E-01	2.59E-01	-7.85E-02	1.24E-01
PM-144	476.78	42.00	7.43E-02	3.72E-02	-4.32E-02	3.40E-02
	618.01	98.60	3.72E-02		-1.40E-02	1.69E-02
	696.49	99.49	3.99E-02		-4.62E-03	1.82E-02
PM-145	36.85	21.70	3.31E-01	1.70E-01	1.35E-01	1.58E-01
	37.36	39.70	1.70E-01		7.25E-03	8.13E-02
	42.30	15.10	3.16E-01		-4.10E-01	1.51E-01
	72.40	2.31	1.67E+00		8.38E-01	8.09E-01
PM-146	453.90	39.94	7.72E-02	7.72E-02	-2.50E-02	3.55E-02
	735.90	14.01	2.61E-01		-1.09E-01	1.18E-01
	747.13	13.10	2.69E-01		-6.03E-02	1.21E-01
ND-147	91.11	28.90	6.88E-01	6.88E-01	-1.79E-01	3.34E-01
	531.02	13.10	1.23E+00		-4.07E-03	5.60E-01
PM-149	285.90	3.10	3.61E+03	3.61E+03	-1.42E+02	1.70E+03
EU-152	121.78	20.50	1.24E-01	1.24E-01	-2.23E-03	5.94E-02
	244.69	5.40	6.04E-01		9.34E-02	2.87E-01
	344.27	19.13	1.56E-01		-3.68E-02	7.26E-02
	778.89	9.20	3.26E-01		-2.67E-02	1.43E-01
	964.01	10.40	3.76E-01		-2.11E-01	1.67E-01
	1085.78	7.22	6.31E-01		8.45E-02	2.82E-01
	1112.02	9.60	5.10E-01		-2.56E-01	2.29E-01
	1407.95	14.94	3.43E-01		5.65E-02	1.52E-01
GD-153	97.43	31.30	8.80E-02	8.80E-02	5.84E-03	4.22E-02
	103.18	22.20	1.28E-01		-4.72E-02	6.16E-02
EU-154	123.07	40.50	6.28E-02	6.28E-02	-1.11E-02	3.00E-02
	723.30	19.70	2.04E-01		-7.12E-02	9.30E-02
	873.19	11.50	3.58E-01		1.26E-01	1.61E-01
	996.32	10.30	4.36E-01		-1.19E-01	1.96E-01
	1004.76	17.90	2.35E-01		-5.32E-02	1.05E-01
	1274.45	35.50	1.28E-01		7.50E-02	5.63E-02
EU-155	86.50	30.90	1.13E-01	1.13E-01	1.33E-01	5.49E-02
	105.30	20.70	1.35E-01		5.79E-02	6.49E-02
EU-156	811.77	10.40	1.27E+00	1.27E+00	-4.21E-01	5.74E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	2.02E+00	1.27E+00	1.12E+00	8.95E-01
		1230.71		8.90	1.64E+00		9.52E-02	7.23E-01
	HO-166M	184.41		72.60	5.46E-02	5.46E-02	9.06E-02	2.64E-02
		280.45		29.60	9.13E-02		-2.33E-02	4.27E-02
		410.94		11.10	2.81E-01		-1.38E-01	1.30E-01
		711.69		54.10	7.01E-02		3.88E-02	3.19E-02
	TM-171	66.72		0.14	2.69E+01	2.69E+01	-3.71E+01	1.30E+01
	HF-172	81.75		4.52	6.38E-01	2.38E-01	-6.78E-01	3.07E-01
		125.81		11.30	2.38E-01		4.74E-02	1.14E-01
	LU-172	181.53		20.60	2.04E+00	9.02E-01	-1.62E+00	9.72E-01
		810.06		16.63	3.89E+00		6.64E-01	1.77E+00
		912.12		15.25	4.54E+00		1.75E+00	2.06E+00
		1093.66		62.50	9.02E-01		-1.96E-01	3.92E-01
	LU-173	100.72		5.24	5.12E-01	1.53E-01	1.14E-01	2.46E-01
		272.11		21.20	1.53E-01		8.74E-02	7.21E-02
	HF-175	343.40		84.00	4.70E-02	4.70E-02	-3.73E-03	2.20E-02
	LU-176	88.34		13.30	2.56E-01	3.00E-02	6.42E-02	1.24E-01
		201.83		86.00	3.43E-02		-1.56E-02	1.64E-02
		306.78		94.00	3.00E-02		1.06E-02	1.40E-02
	TA-182	67.75		41.20	9.84E-02	9.84E-02	-4.99E-02	4.76E-02
		1121.30		34.90	2.69E-01		4.06E-01	1.26E-01
		1189.05		16.23	2.60E-01		-2.81E-01	1.11E-01
		1221.41		26.98	1.60E-01		-2.97E-02	6.83E-02
		1231.02		11.44	4.52E-01		2.61E-02	1.99E-01
	IR-192	308.46		29.68	1.15E-01	8.57E-02	-7.10E-02	5.35E-02
		468.07		48.10	8.57E-02		-4.30E-02	3.95E-02
	HG-203	279.19		77.30	5.29E-02	5.29E-02	1.82E-03	2.48E-02
	BI-207	569.67		97.72	3.27E-02	3.27E-02	4.45E-03	1.49E-02
		1063.62		74.90	6.50E-02		2.57E-02	2.93E-02
+	TL-208	583.14	*	30.22	1.60E-01	1.09E-01	7.56E-02	7.53E-02
		860.37		4.48	9.58E-01		4.35E-01	4.34E-01
		2614.66	*	35.85	1.09E-01		1.15E-01	4.34E-02
	BI-210M	262.00		45.00	6.24E-02	6.24E-02	-2.31E-02	2.93E-02
		300.00		23.00	1.37E-01		6.79E-02	6.47E-02
+	PB-210	46.50	*	4.25	1.53E+00	1.53E+00	9.23E-01	7.44E-01
	PB-211	404.84		2.90	1.05E+00	1.05E+00	1.22E-01	4.88E-01
		831.96		2.90	1.38E+00		-1.98E-01	6.22E-01
	BI-212	727.17		11.80	3.48E-01	3.48E-01	4.06E-02	1.59E-01
		1620.62		2.75	1.04E+00		-3.91E-01	4.04E-01
+	PB-212	238.63	*	44.60	1.20E-01	1.20E-01	1.43E-01	5.85E-02
		300.09		3.41	9.26E-01		4.58E-01	4.36E-01
+	BI-214	609.31	*	46.30	2.04E-01	4.31E-02	6.63E-01	9.88E-02
		1120.29	*	15.10	5.45E-01		6.97E-01	2.56E-01
		1764.49	*	15.80	4.31E-02		9.24E-01	0.00E+00
		2204.22	*	4.98	2.77E-01		1.06E+00	6.22E-02
+	PB-214	295.21	*	19.19	2.45E-01	1.38E-01	5.88E-01	1.18E-01
		351.92	*	37.19	1.38E-01		7.29E-01	6.64E-02
	RN-219	401.80		6.50	4.87E-01	4.87E-01	7.48E-02	2.27E-01
	RA-223	323.87		3.88	8.17E-01	8.17E-01	3.60E-01	3.84E-01
+	RA-224	240.98	*	3.95	1.34E+00	1.34E+00	1.48E+00	6.51E-01
	RA-225	40.00		31.00	5.74E-01	5.74E-01	2.79E-01	2.73E-01
+	RA-226	186.21	*	3.28	1.55E+00	1.55E+00	1.68E+00	7.55E-01
	TH-227	50.10		8.40	4.39E-01	2.64E-01	-8.28E-01	2.10E-01

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-227	236.00	11.50	2.64E-01	2.64E-01	-5.51E-01	1.25E-01
	256.20	6.30	4.71E-01		-2.04E-02	2.23E-01
AC-228	338.32	11.40	2.96E-01	1.69E-01	4.78E-02	1.40E-01
	911.07	27.70	1.69E-01		8.10E-02	7.69E-02
	969.11	16.60	2.88E-01		1.01E-01	1.31E-01
TH-230	48.44	16.90	2.69E-01	2.69E-01	1.89E-01	1.29E-01
	62.85	4.60	9.64E-01		1.94E+00	4.69E-01
	67.67	0.37	9.35E+00		-4.74E+00	4.52E+00
PA-231	283.67	1.60	1.78E+00	1.30E+00	-2.68E-02	8.34E-01
	302.67	2.30	1.30E+00		3.89E-01	6.10E-01
TH-231	25.64	14.70	2.74E+00	4.76E-01	-2.70E+00	1.32E+00
	84.21	6.40	4.76E-01		-5.57E-01	2.30E-01
PA-233	311.98	38.60	1.51E-01	1.51E-01	2.76E-02	7.06E-02
PA-234	131.20	20.40	1.29E-01	1.29E-01	9.62E-03	6.18E-02
	733.99	8.80	4.42E-01		1.25E-01	2.01E-01
	946.00	12.00	3.45E-01		2.39E-02	1.55E-01
PA-234M	1001.03	0.92	5.48E+00	5.48E+00	2.10E+00	2.50E+00
TH-234	63.29	3.80	1.16E+00	1.16E+00	2.10E+00	5.65E-01
U-235	143.76	10.50	2.69E-01	2.69E-01	-3.28E-02	1.29E-01
	163.35	4.70	5.88E-01		7.99E-02	2.81E-01
	205.31	4.70	6.05E-01		-1.65E-01	2.88E-01
NP-237	86.50	12.60	2.75E-01	2.75E-01	3.24E-01	1.33E-01
NP-239	106.10	22.70	2.81E+02	2.81E+02	1.20E+02	1.35E+02
	228.18	10.70	6.46E+02		2.38E+02	3.07E+02
	277.60	14.10	4.35E+02		-1.07E+02	2.04E+02
AM-241	59.54	35.90	9.66E-02	9.66E-02	-2.54E-01	4.66E-02
AM-243	74.67	66.00	6.37E-02	6.37E-02	-8.18E-02	3.10E-02
CM-243	209.75	3.29	8.47E-01	1.91E-01	-3.65E-01	4.01E-01
	228.14	10.60	2.84E-01		1.04E-01	1.35E-01
	277.60	14.00	1.91E-01		-4.71E-02	8.92E-02

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

00528

Analysis Report for 1508002-08

FEEBRIS1D-20 080-081

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-20 080-081

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	0
17:	0	0	34	48	73	198	170	132
25:	41	33	32	31	37	34	24	39
33:	20	31	33	41	30	33	28	26
41:	30	18	40	31	30	59	91	38
49:	36	39	31	27	39	45	39	43
57:	44	45	56	40	51	43	113	144
65:	80	52	50	65	71	50	56	65
73:	80	52	131	96	118	169	51	42
81:	55	44	34	44	64	55	65	93
89:	68	51	58	67	171	83	57	36
97:	41	31	46	30	37	35	40	37
105:	38	45	49	44	34	36	39	44
113:	37	34	33	37	27	33	32	36
121:	38	28	26	37	34	34	33	35
129:	36	38	35	41	23	32	31	38
137:	38	46	32	38	42	37	35	39
145:	32	38	35	35	34	39	33	37
153:	38	42	36	35	34	37	28	39
161:	30	32	33	31	27	29	28	34
169:	28	29	17	32	22	25	29	29
177:	22	31	32	25	26	25	26	33
185:	39	101	81	34	33	20	26	30
193:	14	22	24	26	32	19	38	27
201:	35	25	25	24	29	31	25	14
209:	29	25	24	22	29	22	26	22
217:	21	20	23	28	24	20	14	22
225:	17	15	26	22	28	29	25	16
233:	24	25	14	19	18	41	98	37
241:	23	72	56	28	13	9	23	15
249:	16	12	13	21	18	28	12	20
257:	21	19	24	18	15	21	14	18
265:	17	23	19	20	16	30	20	18
273:	18	16	14	12	18	18	16	7
281:	17	17	15	16	15	16	18	19
289:	19	17	19	21	16	15	91	112
297:	27	18	12	20	26	15	13	10
305:	16	13	11	20	9	9	12	17
313:	20	17	9	16	11	11	15	12
321:	9	12	15	16	21	18	16	12
329:	16	16	8	9	4	10	13	18
337:	10	25	26	11	16	15	18	11
345:	11	14	11	17	14	16	33	234
353:	136	16	11	13	12	12	9	12
361:	12	4	12	15	15	11	13	9

369:	7	5	9	12	14	8	8	15

Sample Title: FEEBRIS1D-20 080-081

Channel								
377:	4	11	10	4	9	11	9	8
385:	8	6	9	13	8	9	6	10
393:	12	11	11	9	4	10	4	12
401:	12	14	7	14	15	11	7	7
409:	9	7	11	7	8	6	10	13
417:	5	17	11	4	8	13	6	9
425:	11	7	10	9	7	5	9	12
433:	15	7	11	12	9	4	7	12
441:	7	9	4	9	8	8	10	10
449:	6	10	6	5	10	4	7	8
457:	5	5	11	10	8	7	10	12
465:	9	6	11	7	9	5	1	9
473:	8	4	5	10	6	4	5	5
481:	7	9	5	10	7	5	9	6
489:	9	11	5	6	6	7	9	6
497:	2	2	3	5	3	6	8	6
505:	2	8	4	8	12	19	27	28
513:	11	12	9	10	6	10	6	5
521:	8	3	5	5	7	4	2	6
529:	4	7	3	2	9	4	7	6
537:	11	4	6	10	6	11	5	4
545:	6	5	6	4	12	2	5	8
553:	4	9	11	3	2	9	5	5
561:	2	9	8	9	4	4	3	6
569:	6	3	6	5	5	5	4	5
577:	9	5	4	6	3	5	17	19
585:	7	3	6	7	4	5	10	4
593:	5	4	6	4	7	8	6	5
601:	8	5	16	10	6	4	8	19
609:	128	120	22	6	5	4	5	8
617:	8	5	5	2	3	4	12	3
625:	7	6	9	7	3	8	5	7
633:	5	2	3	10	7	10	5	8
641:	4	5	7	3	4	6	3	1
649:	5	5	5	5	3	2	3	3
657:	4	4	6	4	4	5	1	3
665:	4	9	6	5	7	4	3	8
673:	4	3	2	1	7	2	5	7
681:	5	5	7	8	3	2	7	6
689:	5	2	4	6	5	10	3	2
697:	8	5	1	6	9	2	5	4
705:	2	3	1	4	5	3	6	5
713:	4	5	6	4	1	5	3	7
721:	8	2	7	6	3	4	4	13
729:	4	5	3	8	5	3	2	9
737:	4	4	2	7	5	6	5	4
745:	5	3	6	3	3	2	4	4
753:	3	4	4	2	4	5	3	7
761:	3	6	4	8	5	5	11	16
769:	17	4	4	2	4	3	3	2
777:	4	2	1	7	1	0	2	3
785:	3	7	4	6	2	1	3	5
793:	4	9	8	4	3	2	5	3

801:	7	2	6	3	5	8	6	4

Sample Title: FEEBRIS1D-20 080-081

Channel								
809:	4	4	6	6	5	4	1	6
817:	6	1	4	7	6	4	6	2
825:	4	3	3	4	5	3	7	4
833:	3	3	4	7	4	4	4	4
841:	6	3	5	8	7	3	10	2
849:	3	6	2	2	4	4	3	3
857:	7	4	5	4	6	2	4	1
865:	4	5	2	1	2	3	4	4
873:	6	3	4	4	2	5	4	1
881:	5	4	1	0	3	3	6	3
889:	3	2	3	5	9	4	3	5
897:	7	5	5	3	1	3	4	6
905:	4	3	0	5	3	4	9	8
913:	1	5	3	5	2	0	5	4
921:	5	6	4	4	5	4	5	2
929:	3	3	4	5	3	13	8	4
937:	1	4	4	7	4	2	5	3
945:	4	3	7	1	2	5	2	3
953:	3	1	5	4	1	2	5	2
961:	2	0	8	3	4	2	2	5
969:	7	9	4	4	2	4	3	0
977:	6	4	0	5	4	6	4	1
985:	4	4	2	6	3	2	4	1
993:	4	3	3	4	5	1	7	8
1001:	6	5	5	3	1	4	3	2
1009:	3	2	3	0	4	4	2	1
1017:	3	6	3	3	0	4	2	1
1025:	4	4	1	5	1	4	5	5
1033:	5	2	1	2	2	0	3	0
1041:	2	4	2	4	5	1	2	2
1049:	1	3	2	3	3	3	7	3
1057:	1	7	1	2	1	4	5	8
1065:	3	4	4	4	3	1	1	4
1073:	5	4	2	2	3	2	4	5
1081:	3	4	3	4	2	5	3	3
1089:	4	5	0	1	1	3	4	4
1097:	2	1	0	1	2	1	7	3
1105:	6	2	2	1	2	3	3	1
1113:	3	8	7	2	2	2	7	29
1121:	28	5	4	3	1	2	3	2
1129:	3	3	1	1	3	8	2	4
1137:	3	5	2	4	4	3	0	2
1145:	2	2	5	1	1	2	3	2
1153:	3	4	5	1	1	1	3	0
1161:	6	0	3	2	5	1	1	2
1169:	2	1	1	3	2	4	3	1
1177:	4	2	2	4	1	3	3	6
1185:	8	0	2	2	2	1	2	3
1193:	2	2	0	1	5	0	3	2
1201:	3	2	2	2	2	1	1	1
1209:	6	4	6	1	3	2	2	2
1217:	2	1	4	3	0	0	2	2
1225:	3	4	1	3	3	1	3	1

1233:	3	4	1	4	7	13	11	4

Sample Title: FEEBRIS1D-20 080-081

Channel								
1241:	3	4	3	3	2	3	3	1
1249:	3	1	0	4	6	2	1	1
1257:	3	1	3	2	0	2	4	1
1265:	0	3	2	3	2	0	1	3
1273:	4	5	2	3	0	1	0	2
1281:	5	1	2	1	2	1	4	0
1289:	2	1	0	2	1	6	3	2
1297:	3	2	3	1	4	2	2	2
1305:	2	1	2	4	0	1	1	3
1313:	0	6	1	1	3	4	2	1
1321:	1	1	1	2	3	2	1	2
1329:	3	2	1	6	0	3	1	2
1337:	3	2	2	2	0	1	0	0
1345:	3	2	0	0	0	3	1	1
1353:	0	2	1	2	2	2	1	2
1361:	0	0	1	0	2	3	0	3
1369:	2	1	1	3	3	1	1	4
1377:	2	9	1	4	2	1	0	1
1385:	1	6	0	3	3	2	2	0
1393:	1	2	0	3	1	1	1	1
1401:	5	8	2	1	1	1	4	7
1409:	3	1	3	4	2	2	0	1
1417:	3	1	2	1	5	2	2	0
1425:	1	3	3	1	3	2	1	2
1433:	0	2	1	1	0	0	1	1
1441:	3	1	2	1	0	0	2	3
1449:	2	3	0	1	0	1	2	6
1457:	1	2	9	41	31	19	1	1
1465:	1	4	1	0	4	2	0	0
1473:	2	0	1	2	2	0	2	0
1481:	1	1	3	1	1	1	1	2
1489:	1	0	1	1	2	1	1	1
1497:	0	0	2	1	3	5	0	1
1505:	2	1	1	4	7	2	4	1
1513:	0	1	2	1	3	1	0	1
1521:	0	1	0	1	0	1	1	0
1529:	4	1	2	1	2	0	1	2
1537:	1	2	2	3	2	3	0	2
1545:	1	3	2	1	0	0	2	0
1553:	4	2	0	0	0	2	0	1
1561:	2	2	0	0	1	4	1	0
1569:	3	1	0	0	1	1	1	0
1577:	1	0	2	1	3	5	1	0
1585:	0	3	0	2	1	0	1	0
1593:	2	3	3	1	2	0	1	0
1601:	0	1	0	0	0	0	1	1
1609:	1	0	0	1	1	2	0	2
1617:	0	0	0	2	0	2	0	1
1625:	2	1	1	1	4	0	3	1
1633:	1	0	2	0	2	0	2	0
1641:	3	0	2	2	0	5	1	0
1649:	3	2	0	0	0	2	0	1
1657:	0	1	3	1	5	0	2	0

1665:	1	0	1	0	1	3	1	0

Sample Title: FEEBRIS1D-20 080-081

Channel								
1673:	1	2	1	0	1	0	0	1
1681:	1	1	0	2	0	0	2	2
1689:	1	0	0	0	0	3	1	0
1697:	1	2	1	1	0	0	0	3
1705:	1	2	0	1	0	0	0	1
1713:	0	0	1	0	0	0	0	1
1721:	0	0	0	1	0	1	1	2
1729:	7	7	4	0	1	1	2	1
1737:	2	1	0	1	0	2	0	2
1745:	0	0	0	0	1	1	0	0
1753:	0	1	0	2	0	2	0	0
1761:	1	1	9	28	14	5	0	0
1769:	2	1	0	1	3	0	0	0
1777:	0	1	1	1	0	2	0	0
1785:	1	0	0	0	0	2	1	0
1793:	1	1	1	1	0	0	0	2
1801:	1	0	0	2	1	0	1	1
1809:	0	0	0	1	0	0	0	3
1817:	0	2	0	0	2	0	1	0
1825:	0	1	1	0	0	1	1	2
1833:	1	0	1	0	0	1	2	1
1841:	0	0	2	1	1	1	3	3
1849:	3	0	0	0	1	0	0	1
1857:	0	0	1	1	0	1	0	0
1865:	0	2	1	2	1	1	0	0
1873:	1	0	1	2	1	0	3	0
1881:	1	0	0	1	1	0	0	1
1889:	0	1	0	0	3	1	0	0
1897:	2	0	1	0	3	0	0	1
1905:	1	1	0	1	0	1	0	0
1913:	0	1	0	1	1	2	0	1
1921:	2	1	1	2	1	1	0	0
1929:	0	0	0	0	1	0	0	1
1937:	1	1	2	0	1	1	0	0
1945:	1	0	1	1	0	1	0	0
1953:	0	0	0	1	3	1	0	0
1961:	0	0	0	1	3	0	0	0
1969:	1	0	2	0	0	0	1	0
1977:	2	0	1	0	0	0	1	0
1985:	0	1	1	1	0	1	0	1
1993:	0	2	0	1	0	0	0	1
2001:	0	1	0	0	2	3	2	0
2009:	0	1	0	1	0	1	2	1
2017:	0	1	0	0	1	0	0	1
2025:	1	0	1	1	0	3	0	0
2033:	0	1	0	0	0	0	0	0
2041:	2	0	0	1	0	0	1	0
2049:	3	0	0	1	2	0	1	0
2057:	0	1	2	0	1	2	0	1
2065:	0	0	0	0	0	0	1	0
2073:	0	1	2	0	1	0	1	0
2081:	1	0	1	0	0	0	0	0
2089:	1	1	0	0	0	0	0	0

2097:	0	0	2	0	0	0	1	1

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Channel								
2105:	1	0	1	1	0	0	1	0
2113:	1	1	0	1	2	2	3	0
2121:	1	1	0	1	0	0	2	0
2129:	0	0	0	0	2	0	0	0
2137:	0	0	2	0	0	0	0	2
2145:	1	2	0	0	3	0	0	0
2153:	0	1	0	0	1	1	0	0
2161:	0	3	0	1	0	0	0	0
2169:	1	0	0	1	0	1	0	0
2177:	0	0	0	2	0	1	1	0
2185:	0	0	1	0	2	0	1	0
2193:	0	0	0	0	0	0	1	2
2201:	1	2	3	5	4	1	0	0
2209:	0	0	1	1	1	0	1	0
2217:	0	1	0	0	2	1	0	1
2225:	0	0	0	2	1	1	0	1
2233:	0	0	0	0	0	0	3	0
2241:	0	0	0	1	0	0	0	0
2249:	0	1	0	0	0	0	0	0
2257:	0	0	0	0	0	0	0	0
2265:	1	2	0	1	1	0	0	1
2273:	0	0	0	0	1	0	1	0
2281:	1	1	0	0	1	0	1	1
2289:	2	0	0	0	1	0	1	1
2297:	0	1	0	1	0	1	0	1
2305:	0	0	1	1	0	0	0	1
2313:	3	0	0	0	0	1	0	0
2321:	1	0	0	0	1	0	1	1
2329:	0	0	1	3	0	0	0	0
2337:	0	1	0	0	1	0	0	1
2345:	0	0	1	0	0	0	0	0
2353:	0	0	0	0	0	1	0	0
2361:	0	1	0	0	0	1	1	0
2369:	0	2	0	0	1	0	0	0
2377:	2	1	1	0	0	1	0	0
2385:	0	0	0	0	1	1	0	0
2393:	0	0	0	0	1	1	0	0
2401:	0	1	0	1	1	0	1	0
2409:	0	1	0	1	3	0	1	0
2417:	1	0	0	0	0	1	0	0
2425:	0	0	0	0	1	0	0	1
2433:	0	1	0	0	0	0	0	0
2441:	1	1	1	1	0	1	0	2
2449:	0	0	1	0	0	1	0	0
2457:	1	0	0	1	0	2	1	0
2465:	0	0	1	1	0	1	0	0
2473:	0	0	0	0	0	0	0	0
2481:	1	1	0	0	0	0	0	0
2489:	1	0	0	1	0	0	0	0
2497:	0	0	0	0	1	1	0	0
2505:	0	0	0	0	2	0	0	0
2513:	0	1	0	0	1	1	0	0
2521:	0	1	0	0	0	0	0	0

2529:	1	0	0	1	1	1	0	0

Sample Title: FEEBRIS1D-20 080-081

Channel								
2537:	0	1	0	0	0	0	1	0
2545:	0	0	3	0	0	0	1	0
2553:	0	0	0	0	0	1	0	0
2561:	0	0	0	1	0	0	0	0
2569:	0	1	0	0	0	0	0	0
2577:	0	0	0	0	0	0	1	0
2585:	0	0	0	0	0	0	0	0
2593:	0	1	0	0	0	0	0	0
2601:	0	1	0	1	0	0	0	0
2609:	1	0	2	2	4	9	4	0
2617:	0	0	1	2	0	0	0	0
2625:	1	0	0	0	0	0	0	0
2633:	0	0	0	0	0	0	0	1
2641:	0	0	0	0	0	0	0	0
2649:	0	0	1	0	0	0	0	0
2657:	0	0	0	0	0	0	1	0
2665:	1	0	2	1	1	0	0	1
2673:	1	0	0	0	0	1	0	1
2681:	0	0	1	0	0	0	0	0
2689:	0	0	0	0	1	0	0	0
2697:	1	0	0	0	1	1	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	1	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	0	0	0	0	2	0	0
2737:	0	0	0	0	1	0	0	1
2745:	0	1	1	1	0	0	0	0
2753:	0	0	0	0	1	0	0	0
2761:	0	1	1	0	1	0	1	1
2769:	0	0	1	0	0	0	0	1
2777:	0	0	0	0	0	0	0	0
2785:	1	0	2	0	0	1	0	1
2793:	1	0	2	0	3	1	1	0
2801:	0	0	0	0	0	0	1	0
2809:	0	1	0	0	0	0	0	0
2817:	1	0	0	0	0	1	0	1
2825:	0	0	0	0	0	0	0	1
2833:	1	0	1	0	0	0	0	0
2841:	0	0	0	1	0	0	0	1
2849:	0	0	0	0	1	1	1	1
2857:	0	0	1	0	1	0	0	0
2865:	0	0	0	2	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	1	0	1	1	0	0	0	0
2889:	0	0	0	0	0	2	0	2
2897:	1	0	0	0	0	0	0	1
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	1	0	0	1	0	0
2929:	0	0	0	1	0	0	0	0
2937:	0	2	0	0	0	0	0	0
2945:	0	0	0	1	0	0	1	0
2953:	0	0	0	0	0	0	0	0

2961:	1	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-20 080-081

Channel								
2969:	0	0	1	0	0	0	1	0
2977:	1	1	1	1	0	0	0	0
2985:	0	0	0	0	0	0	1	0
2993:	0	0	0	1	1	0	0	0
3001:	0	1	1	0	1	0	0	0
3009:	0	0	0	0	0	2	0	0
3017:	1	1	0	1	0	0	0	0
3025:	0	0	0	0	1	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	1	0	1	0	0
3049:	0	0	1	0	0	1	1	0
3057:	0	1	0	1	0	1	0	0
3065:	1	0	0	0	0	0	0	0
3073:	0	0	0	0	0	1	0	0
3081:	0	0	0	0	0	1	0	0
3089:	0	0	0	0	2	0	0	0
3097:	0	0	0	0	1	1	1	0
3105:	0	1	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	2	0	0	0	0	2
3129:	0	0	0	0	0	0	0	0
3137:	0	1	1	0	0	0	1	0
3145:	1	0	0	0	1	0	0	0
3153:	0	0	0	2	0	0	0	0
3161:	0	0	1	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	1	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	0	1	0	0	0
3201:	1	0	0	0	0	0	0	1
3209:	0	1	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	1	0	0	0	0	0	0
3257:	1	0	0	1	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	1	0	0	0
3281:	0	0	0	0	2	0	0	0
3289:	0	1	0	0	0	0	1	0
3297:	1	1	0	0	0	0	2	0
3305:	0	0	1	0	0	0	0	0
3313:	0	3	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	1	0	0	2	1	0	0	0
3345:	0	1	0	0	0	0	2	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	1	0	0	1
3369:	0	0	0	0	1	0	0	0
3377:	0	1	0	1	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	0	0	0	0	0

Sample Title: FEEBRIS1D-20 080-081

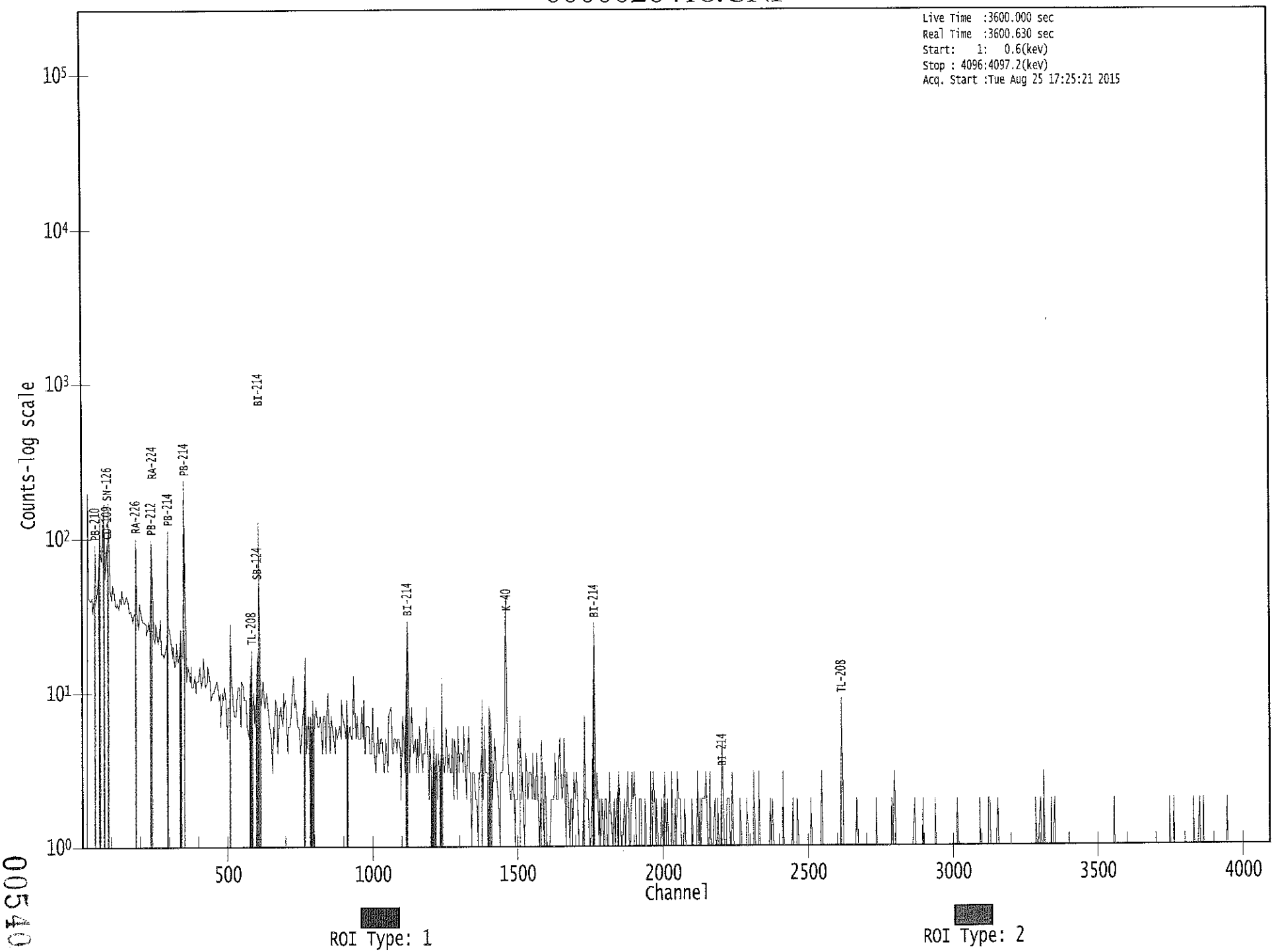
Channel								
3401:	0	0	0	0	0	0	0	1
3409:	0	0	0	0	0	0	1	0
3417:	0	1	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	1	1	0	0	0	1
3449:	0	1	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	1	0	0	0	0	0	0
3473:	0	0	0	0	0	0	0	0
3481:	1	0	0	0	0	0	0	0
3489:	0	1	1	0	0	0	1	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	1	0	1	0	0
3537:	0	1	1	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	1	0	0	2	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	1	0	0	0
3577:	1	1	0	0	0	0	0	0
3585:	0	1	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	1	0	0
3617:	0	0	0	0	0	1	0	0
3625:	0	0	0	0	0	1	0	0
3633:	0	0	0	0	0	0	1	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	1	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	1	0
3681:	0	0	0	0	1	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	1	0	1	1	0	0
3705:	0	0	0	0	0	0	1	0
3713:	0	0	0	1	0	0	1	0
3721:	0	0	0	1	1	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	2	0	0	0	0	0
3753:	1	0	1	0	0	0	0	0
3761:	2	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	0	0	0	1
3785:	0	0	0	0	0	0	0	0
3793:	0	1	0	0	0	0	1	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	1	0	0
3817:	0	0	0	1	0	0	0	0

3825:	0	0	0	0	2	0	0	0

Sample Title: FEEBRIS1D-20 080-081

Channel								
3833:	0	0	0	0	1	0	0	0
3841:	0	0	0	0	1	0	0	0
3849:	0	0	2	0	0	0	0	0
3857:	0	0	0	0	0	0	0	2
3865:	0	0	0	0	0	1	0	1
3873:	0	1	0	0	0	1	0	1
3881:	0	0	0	1	0	0	0	0
3889:	0	0	0	0	0	0	1	0
3897:	1	0	0	0	0	0	0	1
3905:	0	0	0	0	0	0	0	0
3913:	1	1	0	0	0	0	0	0
3921:	0	0	0	0	0	1	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	1	0	0	0	0	1
3945:	2	0	0	0	0	0	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	1	0	0	0	0	0	0	0
4001:	0	1	0	0	0	0	0	1
4009:	0	0	0	1	0	0	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	0	0	0	0	0	1
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	1	0	1	0
4073:	0	0	0	0	0	0	1	1
4081:	0	0	0	0	0	0	0	0
4089:	1	1	0	1	1	0	0	0

0000026418.CNF



00540

KB 9/25/15

Apex-Gamma

Analysis Report for 1508002-09
DUPLICATE 5

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-09
Sample Description	: DUPLICATE 5
Sample Type	: SOIL
Sample Size	: 6.303E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:40:38AM
Acquisition Started	: 8/25/2015 5:25:28PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE3
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3611.5 seconds
Dead Time	: 0.32 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 9 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 10/25/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26419

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

00541

Analysis Report for 1508002-09

DUPLICATE 5

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 6:25:42PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	76.49	76.70	0.0000	0.00
2	92.72	92.93	0.0000	0.00
3	113.73	113.93	0.0000	0.00
4	143.35	143.52	0.0000	0.00
5	185.87	186.02	0.0000	0.00
6	238.70	238.83	0.0000	0.00
7	242.05	242.17	0.0000	0.00
8	262.76	262.87	0.0000	0.00
9	295.50	295.60	0.0000	0.00
10	338.25	338.33	0.0000	0.00
11	352.10	352.17	0.0000	0.00
12	439.38	439.41	0.0000	0.00
13	480.35	480.36	0.0000	0.00
14	511.43	511.43	0.0000	0.00
15	609.59	609.54	0.0000	0.00
16	912.31	912.11	0.0000	0.00
17	936.47	936.27	0.0000	0.00
18	976.30	976.07	0.0000	0.00
19	1025.20	1024.95	0.0000	0.00
20	1058.30	1058.04	0.0000	0.00
21	1120.72	1120.43	0.0000	0.00
22	1155.37	1155.07	0.0000	0.00
23	1239.11	1238.78	0.0000	0.00
24	1309.10	1308.74	0.0000	0.00
25	1377.68	1377.29	0.0000	0.00
26	1461.67	1461.25	0.0000	0.00
27	1509.57	1509.13	0.0000	0.00
28	1563.06	1562.60	0.0000	0.00
29	1619.85	1619.37	0.0000	0.00
30	1731.17	1730.65	0.0000	0.00
31	1765.35	1764.81	0.0000	0.00
32	1848.06	1847.50	0.0000	0.00
33	2205.20	2204.53	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-09

DUPLICATE 5

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	76.49	73 -	79	76.70	3.58E+02	81.53	9.48E+02	3.46
	2	92.72	90 -	95	92.93	1.53E+02	63.73	6.77E+02	1.62
	3	113.73	112 -	117	113.93	4.56E+01	42.88	3.29E+02	0.95
	4	143.35	140 -	147	143.52	5.60E+01	50.87	3.90E+02	5.36
	5	185.87	182 -	190	186.02	1.19E+02	58.11	4.48E+02	1.78
M	6	238.70	233 -	246	238.83	1.21E+02	37.42	1.71E+02	1.89
m	7	242.05	233 -	246	242.17	9.82E+01	40.55	1.63E+02	1.89
	8	262.76	260 -	267	262.87	3.64E+01	36.33	1.95E+02	1.62
	9	295.50	293 -	298	295.60	2.02E+02	37.30	1.16E+02	2.07
	10	338.25	335 -	343	338.33	2.85E+01	33.35	1.55E+02	2.33
	11	352.10	348 -	355	352.17	2.70E+02	46.48	1.80E+02	1.73
	12	439.38	436 -	442	439.41	2.20E+01	22.57	7.61E+01	2.45
	13	480.35	478 -	483	480.36	1.43E+01	17.32	4.93E+01	3.08
	14	511.43	506 -	516	511.43	8.97E+01	34.97	1.15E+02	2.11
	15	609.59	606 -	613	609.54	2.22E+02	34.58	5.05E+01	1.94
	16	912.31	908 -	916	912.11	1.52E+01	19.46	4.75E+01	1.59
	17	936.47	929 -	944	936.27	2.74E+01	22.54	3.91E+01	3.14
	18	976.30	974 -	979	976.07	8.12E+00	8.89	9.77E+00	1.55
	19	1025.20	1018 -	1032	1024.95	1.60E+01	20.33	3.40E+01	2.83
	20	1058.30	1054 -	1065	1058.04	1.41E+01	18.65	3.78E+01	1.10
	21	1120.72	1116 -	1123	1120.43	4.69E+01	17.55	2.02E+01	2.24
	22	1155.37	1150 -	1159	1155.07	1.40E+01	14.00	2.00E+01	2.07
	23	1239.11	1233 -	1244	1238.78	2.82E+01	18.76	2.96E+01	3.86
	24	1309.10	1307 -	1310	1308.74	6.89E+00	6.63	4.22E+00	1.26
	25	1377.68	1374 -	1379	1377.29	1.44E+01	8.54	3.25E+00	2.10
	26	1461.67	1456 -	1467	1461.25	5.80E+01	22.80	3.60E+01	2.61
	27	1509.57	1506 -	1511	1509.13	7.38E+00	9.38	1.12E+01	1.11
	28	1563.06	1559 -	1565	1562.60	1.00E+01	6.32	0.00E+00	3.88
	29	1619.85	1616 -	1621	1619.37	4.43E+00	6.78	5.14E+00	1.56
	30	1731.17	1728 -	1732	1730.65	4.75E+00	5.50	2.50E+00	1.10
	31	1765.35	1760 -	1769	1764.81	3.34E+01	16.49	1.91E+01	2.89
	32	1848.06	1844 -	1851	1847.50	1.20E+01	6.93	0.00E+00	2.00
	33	2205.20	2201 -	2207	2204.53	9.54E+00	8.75	6.92E+00	1.42

Analysis Report for 1508002-09

DUPLICATE 5

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	76.49	73 -	79	3.58E+02	81.53	9.48E+02	5.94E+01
	2	92.72	90 -	95	1.53E+02	63.73	6.77E+02	4.83E+01
	3	113.73	112 -	117	4.56E+01	42.88	3.29E+02	3.35E+01
	4	143.35	140 -	147	5.60E+01	50.87	3.90E+02	4.00E+01
	5	185.87	182 -	190	1.19E+02	58.11	4.48E+02	4.43E+01
M	6	238.70	233 -	246	1.21E+02	37.42	1.71E+02	2.15E+01
m	7	242.05	233 -	246	9.82E+01	40.55	1.63E+02	2.10E+01
	8	262.76	260 -	267	3.64E+01	36.33	1.95E+02	2.82E+01
	9	295.50	293 -	298	2.02E+02	37.30	1.16E+02	1.98E+01
	10	338.25	335 -	343	2.85E+01	33.35	1.55E+02	2.60E+01
	11	352.10	348 -	355	2.70E+02	46.48	1.80E+02	2.70E+01
	12	439.38	436 -	442	2.20E+01	22.57	7.61E+01	1.69E+01
	13	480.35	478 -	483	1.43E+01	17.32	4.93E+01	1.28E+01
	14	511.43	506 -	516	8.97E+01	34.97	1.15E+02	2.42E+01
	15	609.59	606 -	613	2.22E+02	34.58	5.05E+01	1.44E+01
	16	912.31	908 -	916	1.52E+01	19.46	4.75E+01	1.47E+01
	17	936.47	929 -	944	2.74E+01	22.54	3.91E+01	1.64E+01
	18	976.30	974 -	979	8.12E+00	8.89	9.77E+00	5.61E+00
	19	1025.20	1018 -	1032	1.60E+01	20.33	3.40E+01	1.54E+01
	20	1058.30	1054 -	1065	1.41E+01	18.65	3.78E+01	1.40E+01
	21	1120.72	1116 -	1123	4.69E+01	17.55	2.02E+01	9.02E+00
	22	1155.37	1150 -	1159	1.40E+01	14.00	2.00E+01	9.73E+00
	23	1239.11	1233 -	1244	2.82E+01	18.76	2.96E+01	1.27E+01
	24	1309.10	1307 -	1310	6.89E+00	6.63	4.22E+00	3.33E+00
	25	1377.68	1374 -	1379	1.44E+01	8.54	3.25E+00	3.24E+00
	26	1461.67	1456 -	1467	5.80E+01	22.80	3.60E+01	1.39E+01
	27	1509.57	1506 -	1511	7.38E+00	9.38	1.12E+01	6.29E+00
	28	1563.06	1559 -	1565	1.00E+01	6.32	0.00E+00	0.00E+00
	29	1619.85	1616 -	1621	4.43E+00	6.78	5.14E+00	4.37E+00
	30	1731.17	1728 -	1732	4.75E+00	5.50	2.50E+00	2.76E+00
	31	1765.35	1760 -	1769	3.34E+01	16.49	1.91E+01	9.66E+00

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
32	1848.06	1844 -	1851	1.20E+01	6.93	0.00E+00	0.00E+00
33	2205.20	2201 -	2207	9.54E+00	8.75	6.92E+00	5.09E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	76.49	73 -	79	76.70	3.58E+02	81.53	9.48E+02	.....
	2	92.72	90 -	95	92.93	1.53E+02	63.73	6.77E+02	GA-67
	3	113.73	112 -	117	113.93	4.56E+01	42.88	3.29E+02	.....
	4	143.35	140 -	147	143.52	5.60E+01	50.87	3.90E+02	U-235
	5	185.87	182 -	190	186.02	1.19E+02	58.11	4.48E+02	RA-226
M	6	238.70	233 -	246	238.83	1.21E+02	37.42	1.71E+02	PB-212
m	7	242.05	233 -	246	242.17	9.82E+01	40.55	1.63E+02	.....
	8	262.76	260 -	267	262.87	3.64E+01	36.33	1.95E+02	BI-210M CD-113M
	9	295.50	293 -	298	295.60	2.02E+02	37.30	1.16E+02	PB-214
	10	338.25	335 -	343	338.33	2.85E+01	33.35	1.55E+02	AC-228
	11	352.10	348 -	355	352.17	2.70E+02	46.48	1.80E+02	PB-214
	12	439.38	436 -	442	439.41	2.20E+01	22.57	7.61E+01	.....
	13	480.35	478 -	483	480.36	1.43E+01	17.32	4.93E+01	.....
	14	511.43	506 -	516	511.43	8.97E+01	34.97	1.15E+02	.....
	15	609.59	606 -	613	609.54	2.22E+02	34.58	5.05E+01	BI-214
	16	912.31	908 -	916	912.11	1.52E+01	19.46	4.75E+01	LU-172
	17	936.47	929 -	944	936.27	2.74E+01	22.54	3.91E+01	.....
	18	976.30	974 -	979	976.07	8.12E+00	8.89	9.77E+00	.....
	19	1025.20	1018 -	1032	1024.95	1.60E+01	20.33	3.40E+01	.....
	20	1058.30	1054 -	1065	1058.04	1.41E+01	18.65	3.78E+01	.....
	21	1120.72	1116 -	1123	1120.43	4.69E+01	17.55	2.02E+01	SC-46 BI-214 TA-182

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
22	1155.37	1150 -	1159	1155.07	1.40E+01	14.00	2.00E+01	.....
23	1239.11	1233 -	1244	1238.78	2.82E+01	18.76	2.96E+01	CO-56
24	1309.10	1307 -	1310	1308.74	6.89E+00	6.63	4.22E+00	.....
25	1377.68	1374 -	1379	1377.29	1.44E+01	8.54	3.25E+00	.....
26	1461.67	1456 -	1467	1461.25	5.80E+01	22.80	3.60E+01	K-40
27	1509.57	1506 -	1511	1509.13	7.38E+00	9.38	1.12E+01	.....
28	1563.06	1559 -	1565	1562.60	1.00E+01	6.32	0.00E+00	.....
29	1619.85	1616 -	1621	1619.37	4.43E+00	6.78	5.14E+00	BI-212
30	1731.17	1728 -	1732	1730.65	4.75E+00	5.50	2.50E+00	.....
31	1765.35	1760 -	1769	1764.81	3.34E+01	16.49	1.91E+01	BI-214
32	1848.06	1844 -	1851	1847.50	1.20E+01	6.93	0.00E+00	.....
33	2205.20	2201 -	2207	2204.53	9.54E+00	8.75	6.92E+00	BI-214

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	76.49	3.58E+02	81.53	2.38E-02	2.14E-03
	2	92.72	1.53E+02	63.73	2.44E-02	2.41E-03
	3	113.73	4.56E+01	42.88	2.36E-02	1.93E-03
	4	143.35	5.60E+01	50.87	2.14E-02	1.63E-03
	5	185.87	1.19E+02	58.11	1.83E-02	1.42E-03
M	6	238.70	1.21E+02	37.42	1.52E-02	1.18E-03
m	7	242.05	9.82E+01	40.55	1.51E-02	1.17E-03
	8	262.76	3.64E+01	36.33	1.41E-02	1.07E-03
	9	295.50	2.02E+02	37.30	1.28E-02	9.74E-04
	10	338.25	2.85E+01	33.35	1.14E-02	9.13E-04
	11	352.10	2.70E+02	46.48	1.11E-02	8.93E-04
	12	439.38	2.20E+01	22.57	9.14E-03	7.90E-04
	13	480.35	1.43E+01	17.32	8.45E-03	7.49E-04
	14	511.43	8.97E+01	34.97	8.01E-03	7.18E-04
	15	609.59	2.22E+02	34.58	6.87E-03	6.20E-04
	16	912.31	1.52E+01	19.46	4.85E-03	3.72E-04
	17	936.47	2.74E+01	22.54	4.74E-03	3.68E-04
	18	976.30	8.12E+00	8.89	4.58E-03	3.60E-04

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
19	1025.20	1.60E+01	20.33	4.39E-03	3.51E-04
20	1058.30	1.41E+01	18.65	4.28E-03	3.45E-04
21	1120.72	4.69E+01	17.55	4.08E-03	3.33E-04
22	1155.37	1.40E+01	14.00	3.97E-03	3.27E-04
23	1239.11	2.82E+01	18.76	3.75E-03	3.09E-04
24	1309.10	6.89E+00	6.63	3.59E-03	2.94E-04
25	1377.68	1.44E+01	8.54	3.45E-03	2.82E-04
26	1461.67	5.80E+01	22.80	3.29E-03	2.69E-04
27	1509.57	7.38E+00	9.38	3.21E-03	2.62E-04
28	1563.06	1.00E+01	6.32	3.13E-03	2.54E-04
29	1619.85	4.43E+00	6.78	3.04E-03	2.46E-04
30	1731.17	4.75E+00	5.50	2.90E-03	2.29E-04
31	1765.35	3.34E+01	16.49	2.86E-03	2.24E-04
32	1848.06	1.20E+01	6.93	2.77E-03	2.13E-04
33	2205.20	9.54E+00	8.75	2.46E-03	2.13E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	76.49	3.58E+02	81.53			3.58E+02	8.15E+01
	2	92.72	1.53E+02	63.73	8.34E+01	1.60E+01	6.93E+01	6.57E+01
	3	113.73	4.56E+01	42.88			4.56E+01	4.29E+01
	4	143.35	5.60E+01	50.87	7.15E+00	2.61E+00	4.89E+01	5.09E+01
	5	185.87	1.19E+02	58.11	3.91E+01	6.36E+00	7.99E+01	5.85E+01
M	6	238.70	1.21E+02	37.42	1.27E+01	5.67E+00	1.08E+02	3.78E+01
m	7	242.05	9.82E+01	40.55			9.82E+01	4.05E+01
	8	262.76	3.64E+01	36.33			3.64E+01	3.63E+01
	9	295.50	2.02E+02	37.30	3.82E+00	5.43E+00	1.98E+02	3.77E+01
	10	338.25	2.85E+01	33.35			2.85E+01	3.34E+01
	11	352.10	2.70E+02	46.48	6.42E+00	4.54E+00	2.64E+02	4.67E+01
	12	439.38	2.20E+01	22.57			2.20E+01	2.26E+01
	13	480.35	1.43E+01	17.32			1.43E+01	1.73E+01
	14	511.43	8.97E+01	34.97	5.53E+01	4.60E+00	3.44E+01	3.53E+01
	15	609.59	2.22E+02	34.58	4.69E+00	3.03E+00	2.17E+02	3.47E+01

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
16	912.31	1.52E+01	19.46			1.52E+01	1.95E+01
17	936.47	2.74E+01	22.54			2.74E+01	2.25E+01
18	976.30	8.12E+00	8.89			8.12E+00	8.89E+00
19	1025.20	1.60E+01	20.33			1.60E+01	2.03E+01
20	1058.30	1.41E+01	18.65			1.41E+01	1.87E+01
21	1120.72	4.69E+01	17.55			4.69E+01	1.75E+01
22	1155.37	1.40E+01	14.00			1.40E+01	1.40E+01
23	1239.11	2.82E+01	18.76			2.82E+01	1.88E+01
24	1309.10	6.89E+00	6.63			6.89E+00	6.63E+00
25	1377.68	1.44E+01	8.54			1.44E+01	8.54E+00
26	1461.67	5.80E+01	22.80			5.80E+01	2.28E+01
27	1509.57	7.38E+00	9.38			7.38E+00	9.38E+00
28	1563.06	1.00E+01	6.32			1.00E+01	6.32E+00
29	1619.85	4.43E+00	6.78			4.43E+00	6.78E+00
30	1731.17	4.75E+00	5.50			4.75E+00	5.50E+00
31	1765.35	3.34E+01	16.49			3.34E+01	1.65E+01
32	1848.06	1.20E+01	6.93			1.20E+01	6.93E+00
33	2205.20	9.54E+00	8.75			9.54E+00	8.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 6:25:42PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025968.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	76.49	3.58E+02	81.53			3.58E+02	8.15E+01
	2	92.72	1.53E+02	63.73	8.34E+01	1.60E+01	6.93E+01	6.57E+01
	3	113.73	4.56E+01	42.88			4.56E+01	4.29E+01
	4	143.35	5.60E+01	50.87	7.15E+00	2.61E+00	4.89E+01	5.09E+01
	5	185.87	1.19E+02	58.11	3.91E+01	6.36E+00	7.99E+01	5.85E+01
M	6	238.70	1.21E+02	37.42	1.27E+01	5.67E+00	1.08E+02	3.78E+01
m	7	242.05	9.82E+01	40.55			9.82E+01	4.05E+01
	8	262.76	3.64E+01	36.33			3.64E+01	3.63E+01
	9	295.50	2.02E+02	37.30	3.82E+00	5.43E+00	1.98E+02	3.77E+01
	10	338.25	2.85E+01	33.35			2.85E+01	3.34E+01

Analysis Report for 1508002-09

DUPLICATE 5

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
11	352.10	2.70E+02	46.48	6.42E+00	4.54E+00	2.64E+02	4.67E+01
12	439.38	2.20E+01	22.57			2.20E+01	2.26E+01
13	480.35	1.43E+01	17.32			1.43E+01	1.73E+01
14	511.43	8.97E+01	34.97	5.53E+01	4.60E+00	3.44E+01	3.53E+01
15	609.59	2.22E+02	34.58	4.69E+00	3.03E+00	2.17E+02	3.47E+01
16	912.31	1.52E+01	19.46			1.52E+01	1.95E+01
17	936.47	2.74E+01	22.54			2.74E+01	2.25E+01
18	976.30	8.12E+00	8.89			8.12E+00	8.89E+00
19	1025.20	1.60E+01	20.33			1.60E+01	2.03E+01
20	1058.30	1.41E+01	18.65			1.41E+01	1.87E+01
21	1120.72	4.69E+01	17.55			4.69E+01	1.75E+01
22	1155.37	1.40E+01	14.00			1.40E+01	1.40E+01
23	1239.11	2.82E+01	18.76			2.82E+01	1.88E+01
24	1309.10	6.89E+00	6.63			6.89E+00	6.63E+00
25	1377.68	1.44E+01	8.54			1.44E+01	8.54E+00
26	1461.67	5.80E+01	22.80			5.80E+01	2.28E+01
27	1509.57	7.38E+00	9.38			7.38E+00	9.38E+00
28	1563.06	1.00E+01	6.32			1.00E+01	6.32E+00
29	1619.85	4.43E+00	6.78			4.43E+00	6.78E+00
30	1731.17	4.75E+00	5.50			4.75E+00	5.50E+00
31	1765.35	3.34E+01	16.49			3.34E+01	1.65E+01
32	1848.06	1.20E+01	6.93			1.20E+01	6.93E+00
33	2205.20	9.54E+00	8.75			9.54E+00	8.75E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.888	1460.81	*	10.67	1.97E+00	7.91E-01
GA-67	0.382	93.31	*	35.70	2.54E+01	9.46E+01
		208.95		2.24		
		300.22		16.00		
CD-113M	0.868	263.70	*	0.02	1.34E+02	1.34E+02
BI-210M	0.419	262.00	*	45.00	6.83E-02	6.84E-02
		300.00		23.00		
PB-212	0.895	238.63	*	44.60	1.90E-01	6.80E-02

Analysis Report for 1508002-09

DUPLICATE 5

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
PB-212	0.895	300.09		3.41		
BI-214	0.957	609.31	*	46.30	8.13E-01	1.49E-01
		1120.29	*	15.10	9.07E-01	3.48E-01
		1764.49	*	15.80	8.82E-01	4.41E-01
		2204.22	*	4.98	9.27E-01	8.53E-01
PB-214	0.992	295.21	*	19.19	9.61E-01	1.97E-01
		351.92	*	37.19	7.64E-01	1.49E-01
RA-226	0.981	186.21	*	3.28	1.59E+00	3.13E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:42PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.49	9.94606E-02	11.39		
	3	113.73	1.26759E-02	46.99		
	4	143.35	1.35822E-02	52.09	Tol.	U-235
m	7	242.05	2.72809E-02	20.64		
	10	338.25	7.90356E-03	58.61	Tol.	AC-228
	12	439.38	6.10185E-03	51.38	D-Esc	
	13	480.35	3.98148E-03	60.42		
	14	511.43	9.55996E-03	51.25		
	16	912.31	4.23077E-03	63.89	Tol.	LU-172
	17	936.47	7.61820E-03	41.09		
	18	976.30	2.25427E-03	54.76		
	19	1025.20	4.44444E-03	63.53		
	20	1058.30	3.91414E-03	66.19		
	22	1155.37	3.88889E-03	50.00		
	23	1239.11	7.83915E-03	33.24	Tol.	CO-56
	24	1309.10	1.91358E-03	48.14		
	25	1377.68	3.99306E-03	29.72		
	27	1509.57	2.05128E-03	63.52		
	28	1563.06	2.77778E-03	31.62		
	29	1619.85	1.23016E-03	76.57	Tol.	BI-212
	30	1731.17	1.31944E-03	57.89	Sum	

Analysis Report for 1508002-09
DUPLICATE 5

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
32	1848.06	3.33333E-03	28.87		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.88	1460.81	*	10.67	1.97E+00	7.91E-01
GA-67	0.38	93.31	*	35.70	2.54E+01	9.46E+01
		208.95		2.24		
		300.22		16.00		
CD-113M	0.86	263.70	*	0.02	1.34E+02	1.34E+02
BI-210M	0.41	262.00	*	45.00	6.83E-02	6.84E-02
		300.00		23.00		
PB-212	0.89	238.63	*	44.60	1.90E-01	6.80E-02
		300.09		3.41		
BI-214	0.95	609.31	*	46.30	8.13E-01	1.49E-01
		1120.29	*	15.10	9.07E-01	3.48E-01
		1764.49	*	15.80	8.82E-01	4.41E-01
		2204.22	*	4.98	9.27E-01	8.53E-01
PB-214	0.99	295.21	*	19.19	9.61E-01	1.97E-01
		351.92	*	37.19	7.64E-01	1.49E-01
RA-226	0.98	186.21	*	3.28	1.59E+00	3.13E+00

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-09

DUPLICATE 5

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.888	1.97E+00	7.91E-01	
	GA-67	0.382	2.54E+01	9.46E+01	
?	CD-113M	0.868	1.34E+02	1.34E+02	
?	BI-210M	0.419	6.83E-02	6.84E-02	
	PB-212	0.895	1.90E-01	6.80E-02	
	BI-214	0.957	8.35E-01	1.29E-01	
	PB-214	0.992	8.35E-01	1.19E-01	
	RA-226	0.981	1.59E+00	3.13E+00	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-09

DUPLICATE 5

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 6:25:42PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	76.49	9.94606E-02	11.39		
	3	113.73	1.26759E-02	46.99		
	4	143.35	1.35822E-02	52.09	Tol.	U-235
m	7	242.05	2.72809E-02	20.64		
	10	338.25	7.90356E-03	58.61	Tol.	AC-228
	12	439.38	6.10185E-03	51.38	D-Esc	
	13	480.35	3.98148E-03	60.42		
	14	511.43	9.55996E-03	51.25		
	16	912.31	4.23077E-03	63.89	Tol.	LU-172
	17	936.47	7.61820E-03	41.09		
	18	976.30	2.25427E-03	54.76		
	19	1025.20	4.44444E-03	63.53		
	20	1058.30	3.91414E-03	66.19		
	22	1155.37	3.88889E-03	50.00		
	23	1239.11	7.83915E-03	33.24	Tol.	CO-56
	24	1309.10	1.91358E-03	48.14		
	25	1377.68	3.99306E-03	29.72		
	27	1509.57	2.05128E-03	63.52		
	28	1563.06	2.77778E-03	31.62		
	29	1619.85	1.23016E-03	76.57	Tol.	BI-212
	30	1731.17	1.31944E-03	57.89	Sum	
	32	1848.06	3.33333E-03	28.87		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	5.82E-02	6.80E-01	6.80E-01
+	NA-22	1274.54		99.94	-1.78E-02	7.43E-02	7.43E-02
+	NA-24	1368.53		99.99	1.36E+11	1.87E+11	3.12E+11
		2754.09		99.86	2.54E+10		1.87E+11
+	AL-26	1808.65		99.76	1.56E-02	5.57E-02	5.57E-02
+	K-40	1460.81	*	10.67	1.97E+00	1.04E+00	1.04E+00
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	4.80E-03	5.01E-02	5.01E-02
		78.34		96.00	-7.33E-03		5.93E-02
+	SC-46	889.25		99.98	-6.79E-02	6.54E-02	6.54E-02
		1120.51		99.99	1.52E-01		1.36E-01
+	V-48	983.52		99.98	7.47E-02	1.93E-01	1.93E-01
		1312.10		97.50	-7.83E-02		2.40E-01
+	CR-51	320.08		9.83	-6.81E-04	8.95E-01	8.95E-01
+	MN-54	834.83		99.97	-3.75E-03	6.70E-02	6.70E-02
+	CO-56	846.75		99.96	3.46E-02	8.20E-02	8.20E-02
		1037.75		14.03	1.87E-01		5.25E-01
		1238.25		67.00	8.65E-02		1.73E-01
		1771.40		15.51	0.00E+00		5.39E-01
		2598.48		16.90	-1.32E-02		3.67E-01
+	CO-57	122.06		85.51	8.75E-03	4.03E-02	4.03E-02
		136.48		10.60	-9.38E-02		3.18E-01
+	CO-58	810.76		99.40	1.06E-02	6.64E-02	6.64E-02
+	FE-59	1099.22		56.50	-5.62E-02	1.44E-01	1.44E-01
		1291.56		43.20	3.49E-02		2.63E-01
+	CO-60	1173.22		100.00	3.66E-02	7.36E-02	7.36E-02
		1332.49		100.00	4.76E-02		8.50E-02
+	ZN-65	1115.52		50.75	2.60E-02	1.20E-01	1.20E-01
+	GA-67	93.31	*	35.70	2.54E+01	3.93E+01	3.93E+01
		208.95		2.24	-1.23E+02		5.02E+02
		300.22		16.00	-1.56E+01		7.95E+01
+	SE-75	121.11		16.70	1.41E-01	6.36E-02	2.31E-01
		136.00		59.20	7.57E-03		6.36E-02
		264.65		59.80	-8.24E-03		8.84E-02
		279.53		25.20	-3.28E-02		1.85E-01
		400.65		11.40	7.72E-02		5.19E-01
+	RB-82	776.52		13.00	1.91E-01	8.57E-01	8.57E-01
+	RB-83	520.41		46.00	-8.79E-03	1.33E-01	1.33E-01
		529.64		30.30	-7.82E-02		1.84E-01
		552.65		16.40	-4.41E-02		3.58E-01
+	KR-85	513.99		0.43	1.57E+01	1.72E+01	1.72E+01
+	SR-85	513.99		99.27	9.06E-02	9.91E-02	9.91E-02
+	Y-88	898.02		93.40	3.25E-03	5.51E-02	8.28E-02
		1836.01		99.38	-8.53E-03		5.51E-02
+	NB-93M	16.57		9.43	1.37E+01	5.83E+01	5.83E+01
+	NB-94	702.63		100.00	7.09E-04	5.43E-02	6.01E-02
		871.10		100.00	-7.46E-03		5.43E-02

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	NB-95	765.79		99.81	6.30E-02	1.22E-01	1.22E-01
+	NB-95M	235.69		25.00	1.65E+01	3.38E+01	3.38E+01
+	ZR-95	724.18		43.70	4.14E-03	1.26E-01	1.90E-01
		756.72		55.30	5.14E-03		1.26E-01
+	MO-99	181.06		6.20	-9.35E+01	3.46E+02	4.23E+02
		739.58		12.80	5.66E+01		3.46E+02
		778.00		4.50	3.17E+01		8.65E+02
+	RU-103	497.08		89.00	1.13E-02	8.97E-02	8.97E-02
+	RU-106	621.84		9.80	-1.95E-01	4.91E-01	4.91E-01
+	AG-108M	433.93		89.90	-8.63E-03	5.06E-02	5.06E-02
		614.37		90.40	7.82E-03		6.75E-02
		722.95		90.50	-3.59E-02		6.27E-02
+	CD-109	88.03		3.72	6.28E-02	1.27E+00	1.27E+00
+	AG-110M	657.75		93.14	-4.13E-02	5.94E-02	5.94E-02
		677.61		10.53	1.68E-01		5.95E-01
		706.67		16.46	2.05E-01		3.85E-01
		763.93		21.98	-2.08E-01		2.87E-01
		884.67		71.63	4.31E-02		1.01E-01
		1384.27		23.94	3.12E-02		3.32E-01
+	CD-113M	263.70	*	0.02	1.34E+02	2.18E+02	2.18E+02
+	SN-113	255.12		1.93	1.23E+00	8.26E-02	2.75E+00
		391.69		64.90	-5.00E-02		8.26E-02
+	TE123M	159.00		84.10	-9.11E-03	4.91E-02	4.91E-02
+	SB-124	602.71		97.87	3.80E-02	7.45E-02	7.45E-02
		645.85		7.26	1.40E-01		1.04E+00
		722.78		11.10	-3.96E-01		6.91E-01
		1691.02		49.00	2.65E-02		1.77E-01
+	I-125	35.49		6.49	-2.49E-01	2.23E+00	2.23E+00
+	SB-125	176.33		6.89	9.84E-02	1.79E-01	5.23E-01
		427.89		29.33	7.50E-02		1.79E-01
		463.38		10.35	4.78E-02		4.96E-01
		600.56		17.80	7.83E-02		3.00E-01
		635.90		11.32	-2.46E-02		4.35E-01
+	SB-126	414.70		83.30	-1.54E-01	2.06E-01	2.06E-01
		666.33		99.60	6.96E-02		2.57E-01
		695.00		99.60	4.63E-03		2.50E-01
		720.50		53.80	5.75E-03		4.64E-01
+	SN-126	87.57		37.00	6.07E-03	1.23E-01	1.23E-01
+	SB-127	473.00		25.00	4.14E+00	1.56E+01	2.21E+01
		685.20		35.70	-1.32E+01		1.56E+01
		783.80		14.70	2.29E+01		4.57E+01
+	I-129	29.78		57.00	-1.05E-01	3.17E-01	3.17E-01
		33.60		13.20	4.55E-01		9.56E-01
		39.58		7.52	-1.88E-01		1.08E+00
+	I-131	284.30		6.05	-1.86E+00	5.49E-01	6.63E+00
		364.48		81.20	-1.75E-01		5.49E-01
		636.97		7.26	1.70E+00		6.76E+00
		722.89		1.80	-1.74E+01		3.04E+01

Analysis Report for 1508002-09

DUPLICATE 5

		Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+		TE-132	49.72	13.10	-1.05E+02	1.34E+01	1.14E+02
			228.16	88.00	6.79E+00		1.34E+01
+		BA-133	81.00	33.00	-1.72E-01	1.13E-01	1.32E-01
			302.84	17.80	1.07E-01		2.60E-01
			356.01	60.00	4.42E-03		1.13E-01
+		I-133	529.87	86.30	-3.04E+07	7.15E+07	7.15E+07
+		XE-133	81.00	38.00	-4.81E+00	3.70E+00	3.70E+00
+		CS-134	563.23	8.38	-6.20E-02	5.94E-02	6.43E-01
			569.32	15.43	7.05E-02		3.40E-01
			604.70	97.60	1.32E-02		5.94E-02
			795.84	85.40	1.88E-02		7.50E-02
			801.93	8.73	-1.27E-01		6.94E-01
+		CS-135	268.24	16.00	9.66E-02	2.79E-01	2.79E-01
+	@	I-135	1131.51	22.50	1.00E+26	1.00E+26	1.00E+26
	@		1260.41	28.60	1.00E+26		1.00E+26
	@		1678.03	9.54	1.00E+26		1.00E+26
+		CS-136	153.22	7.46	7.82E-01	1.75E-01	1.96E+00
			163.89	4.61	1.38E+00		3.23E+00
			176.55	13.56	-4.07E-02		1.01E+00
			273.65	12.66	-8.77E-02		1.36E+00
			340.57	48.50	9.28E-02		4.00E-01
			818.50	99.70	-2.73E-02		1.75E-01
			1048.07	79.60	8.48E-03		2.31E-01
			1235.34	19.70	-8.73E-01		1.51E+00
+		CS-137	661.65	85.12	2.94E-02	7.04E-02	7.04E-02
+		LA-138	788.74	34.00	4.31E-02	1.05E-01	1.85E-01
			1435.80	66.00	-1.71E-02		1.05E-01
+		CE-139	165.85	80.35	2.49E-03	5.06E-02	5.06E-02
+		BA-140	162.64	6.70	1.22E+00	8.01E-01	2.32E+00
			304.84	4.50	-1.09E+00		4.13E+00
			423.70	3.20	2.16E+00		6.93E+00
			437.55	2.00	4.18E+00		1.05E+01
			537.32	25.00	-2.37E-01		8.01E-01
+		LA-140	328.77	20.50	4.73E-01	2.38E-01	9.96E-01
			487.03	45.50	2.09E-01		4.47E-01
			815.85	23.50	3.95E-02		8.19E-01
			1596.49	95.49	-4.50E-02		2.38E-01
+		CE-141	145.44	48.40	-2.19E-02	1.20E-01	1.20E-01
+		CE-143	57.36	11.80	1.91E+05	1.01E+05	2.47E+05
			293.26	42.00	8.52E+03		1.01E+05
			664.55	5.20	9.76E+03		6.47E+05
+		CE-144	133.54	10.80	-5.18E-02	3.16E-01	3.16E-01
+		PM-144	476.78	42.00	-1.47E-02	5.51E-02	1.16E-01
			618.01	98.60	2.90E-02		5.51E-02
			696.49	99.49	-2.27E-02		5.80E-02
+		PM-145	36.85	21.70	4.02E-01	2.40E-01	4.59E-01
			37.36	39.70	-5.50E-02		2.40E-01
			42.30	15.10	-1.14E-01		4.83E-01
			72.40	2.31	7.74E-02		2.20E+00

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	PM-146	453.90	39.94	1.59E-02	1.21E-01	1.21E-01
		735.90	14.01	-1.49E-01		3.75E-01
		747.13	13.10	-2.72E-01		3.40E-01
+	ND-147	91.11	28.90	4.82E-01	8.81E-01	8.81E-01
		531.02	13.10	-1.07E+00		1.79E+00
+	PM-149	285.90	3.10	-4.28E+02	5.51E+03	5.51E+03
+	EU-152	121.78	20.50	3.42E-02	1.57E-01	1.57E-01
		244.69	5.40	-1.52E-01		1.02E+00
		344.27	19.13	-1.78E-02		2.35E-01
		778.89	9.20	-1.37E-01		5.25E-01
		964.01	10.40	1.83E-02		5.97E-01
		1085.78	7.22	2.37E-01		7.71E-01
		1112.02	9.60	2.92E-01		6.81E-01
		1407.95	14.94	-2.20E-01		4.60E-01
+	GD-153	97.43	31.30	4.37E-02	1.33E-01	1.33E-01
		103.18	22.20	-1.03E-01		1.63E-01
+	EU-154	123.07	40.50	1.26E-03	8.11E-02	8.11E-02
		723.30	19.70	-1.66E-01		2.90E-01
		873.19	11.50	-3.97E-01		4.65E-01
		996.32	10.30	7.27E-02		5.51E-01
		1004.76	17.90	1.50E-02		3.01E-01
		1274.45	35.50	-4.96E-02		2.06E-01
+	EU-155	86.50	30.90	4.46E-02	1.51E-01	1.51E-01
		105.30	20.70	8.41E-02		1.69E-01
+	EU-156	811.77	10.40	-1.09E-01	1.47E+00	1.47E+00
		1153.47	7.20	6.06E-01		3.10E+00
		1230.71	8.90	3.53E-01		2.83E+00
+	HO-166M	184.41	72.60	1.24E-01	6.86E-02	6.86E-02
		280.45	29.60	-5.42E-02		1.35E-01
		410.94	11.10	2.62E-01		4.29E-01
		711.69	54.10	-7.52E-02		8.23E-02
+	TM-171	66.72	0.14	-4.45E+01	3.44E+01	3.44E+01
+	HF-172	81.75	4.52	-1.16E+00	2.92E-01	1.02E+00
		125.81	11.30	-1.22E-01		2.92E-01
+	LU-172	181.53	20.60	-6.04E-02	1.48E+00	2.58E+00
		810.06	16.63	-1.75E+00		4.44E+00
		912.12	15.25	3.33E+00		7.11E+00
		1093.66	62.50	2.61E-01		1.48E+00
+	LU-173	100.72	5.24	1.34E-01	2.21E-01	7.11E-01
		272.11	21.20	8.27E-02		2.21E-01
+	HF-175	343.40	84.00	-9.77E-03	6.83E-02	6.83E-02
+	LU-176	88.34	13.30	1.08E-01	4.88E-02	3.45E-01
		201.83	86.00	-3.82E-03		5.00E-02
		306.78	94.00	1.38E-02		4.88E-02
+	TA-182	67.75	41.20	1.29E-02	1.35E-01	1.35E-01
		1121.30	34.90	4.47E-01		3.72E-01
		1189.05	16.23	2.22E-02		4.60E-01
		1221.41	26.98	-1.59E-01		2.05E-01
		1231.02	11.44	-1.73E-02		7.44E-01

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	IR-192	308.46		29.68	-1.70E-02	1.36E-01	1.96E-01
		468.07		48.10	7.33E-03		1.36E-01
+	HG-203	279.19		77.30	-2.27E-02	7.74E-02	7.74E-02
+	BI-207	569.67		97.72	-1.59E-02	5.13E-02	5.13E-02
		1063.62		74.90	-1.15E-03		7.29E-02
+	TL-208	583.14		30.22	8.43E-02	2.07E-01	2.07E-01
		860.37		4.48	5.76E-01		1.35E+00
		2614.66		35.85	5.30E-02		2.23E-01
+	BI-210M	262.00	*	45.00	6.83E-02	1.11E-01	1.11E-01
		300.00		23.00	-4.06E-02		2.06E-01
+	PB-210	46.50		4.25	1.86E+00	1.64E+00	1.64E+00
+	PB-211	404.84		2.90	-9.91E-01	1.56E+00	1.56E+00
		831.96		2.90	2.97E-01		2.07E+00
+	BI-212	727.17		11.80	1.70E-01	5.57E-01	5.57E-01
		1620.62		2.75	1.66E-01		2.48E+00
+	PB-212	238.63	*	44.60	1.90E-01	1.67E-01	1.67E-01
		300.09		3.41	-2.74E-01		1.39E+00
+	BI-214	609.31	*	46.30	8.13E-01	1.23E-01	1.23E-01
		1120.29	*	15.10	9.07E-01		4.02E-01
		1764.49	*	15.80	8.82E-01		5.82E-01
		2204.22	*	4.98	9.27E-01		1.25E+00
+	PB-214	295.21	*	19.19	9.61E-01	1.68E-01	2.13E-01
		351.92	*	37.19	7.64E-01		1.68E-01
+	RN-219	401.80		6.50	3.04E-01	7.83E-01	7.83E-01
+	RA-223	323.87		3.88	6.42E-01	1.22E+00	1.22E+00
+	RA-224	240.98		3.95	3.60E+00	1.70E+00	1.70E+00
+	RA-225	40.00		31.00	-1.52E-01	8.80E-01	8.80E-01
+	RA-226	186.21	*	3.28	1.59E+00	1.87E+00	1.87E+00
+	TH-227	50.10		8.40	-6.02E-01	4.71E-01	6.51E-01
		236.00		11.50	2.30E-01		4.71E-01
		256.20		6.30	1.96E-01		6.91E-01
+	AC-228	338.32		11.40	9.38E-02	2.57E-01	4.14E-01
		911.07		27.70	5.29E-02		2.57E-01
		969.11		16.60	2.09E-01		4.05E-01
+	TH-230	48.44		16.90	8.11E-02	3.69E-01	3.69E-01
		62.85		4.60	5.70E-01		1.15E+00
		67.67		0.37	1.23E+00		1.28E+01
+	PA-231	283.67		1.60	-7.29E-01	2.00E+00	2.59E+00
		302.67		2.30	8.25E-01		2.00E+00
+	TH-231	25.64		14.70	-9.39E-01	6.98E-01	2.40E+00
		84.21		6.40	-3.57E-01		6.98E-01
+	PA-233	311.98		38.60	1.87E-02	2.38E-01	2.38E-01
+	PA-234	131.20		20.40	1.67E-02	1.64E-01	1.64E-01
		733.99		8.80	7.42E-02		6.23E-01
		946.00		12.00	6.09E-02		4.50E-01
+	PA-234M	1001.03		0.92	-4.33E-01	6.16E+00	6.16E+00
+	TH-234	63.29		3.80	1.87E+00	1.42E+00	1.42E+00

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)	Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	U-235	143.76	10.50	2.32E-01	3.39E-01	3.39E-01
		163.35	4.70	3.39E-01		7.91E-01
		205.31	4.70	1.89E-01		9.12E-01
+	NP-237	86.50	12.60	1.08E-01	3.66E-01	3.66E-01
+	NP-239	106.10	22.70	3.93E+01	3.41E+02	3.41E+02
		228.18	10.70	4.78E+02		9.46E+02
		277.60	14.10	-8.64E+01		6.65E+02
+	AM-241	59.54	35.90	-1.52E-01	1.40E-01	1.40E-01
+	AM-243	74.67	66.00	7.06E-02	8.82E-02	8.82E-02
+	CM-243	209.75	3.29	-3.73E-01	2.91E-01	1.28E+00
		228.14	10.60	2.10E-01		4.15E-01
		277.60	14.00	-3.79E-02		2.91E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	6.80E-01	6.80E-01	5.82E-02	3.14E-01
	NA-22	1274.54		99.94	7.43E-02	7.43E-02	-1.78E-02	3.27E-02
	NA-24	1368.53		99.99	3.12E+11	1.87E+11	1.36E+11	1.34E+11
		2754.09		99.86	1.87E+11		2.54E+10	5.92E+10
	AL-26	1808.65		99.76	5.57E-02	5.57E-02	1.56E-02	2.21E-02
+	K-40	1460.81	*	10.67	1.04E+00	1.04E+00	1.97E+00	4.74E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.01E-02	5.01E-02	4.80E-03	2.43E-02
		78.34		96.00	5.93E-02		-7.33E-03	2.89E-02
	SC-46	889.25		99.98	6.54E-02	6.54E-02	-6.79E-02	2.87E-02

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	SC-46	1120.51		99.99	1.36E-01	6.54E-02	1.52E-01	6.32E-02
	V-48	983.52		99.98	1.93E-01	1.93E-01	7.47E-02	8.54E-02
		1312.10		97.50	2.40E-01		-7.83E-02	1.05E-01
	CR-51	320.08		9.83	8.95E-01	8.95E-01	-6.81E-04	4.21E-01
	MN-54	834.83		99.97	6.70E-02	6.70E-02	-3.75E-03	3.03E-02
	CO-56	846.75		99.96	8.20E-02	8.20E-02	3.46E-02	3.70E-02
		1037.75		14.03	5.25E-01		1.87E-01	2.29E-01
		1238.25		67.00	1.73E-01		8.65E-02	7.85E-02
		1771.40		15.51	5.39E-01		0.00E+00	2.23E-01
		2598.48		16.90	3.67E-01		-1.32E-02	1.30E-01
	CO-57	122.06		85.51	4.03E-02	4.03E-02	8.75E-03	1.93E-02
		136.48		10.60	3.18E-01		-9.38E-02	1.52E-01
	CO-58	810.76		99.40	6.64E-02	6.64E-02	1.06E-02	2.93E-02
	FE-59	1099.22		56.50	1.44E-01	1.44E-01	-5.62E-02	6.17E-02
		1291.56		43.20	2.63E-01		3.49E-02	1.16E-01
	CO-60	1173.22		100.00	7.36E-02	7.36E-02	3.66E-02	3.27E-02
		1332.49		100.00	8.50E-02		4.76E-02	3.79E-02
	ZN-65	1115.52		50.75	1.20E-01	1.20E-01	2.60E-02	5.18E-02
+	GA-67	93.31	*	35.70	3.93E+01	3.93E+01	2.54E+01	1.91E+01
		208.95		2.24	5.02E+02		-1.23E+02	2.39E+02
		300.22		16.00	7.95E+01		-1.56E+01	3.76E+01
	SE-75	121.11		16.70	2.31E-01	6.36E-02	1.41E-01	1.11E-01
		136.00		59.20	6.36E-02		7.57E-03	3.03E-02
		264.65		59.80	8.84E-02		-8.24E-03	4.20E-02
		279.53		25.20	1.85E-01		-3.28E-02	8.70E-02
		400.65		11.40	5.19E-01		7.72E-02	2.43E-01
	RB-82	776.52		13.00	8.57E-01	8.57E-01	1.91E-01	3.83E-01
	RB-83	520.41		46.00	1.33E-01	1.33E-01	-8.79E-03	6.12E-02
		529.64		30.30	1.84E-01		-7.82E-02	8.36E-02
		552.65		16.40	3.58E-01		-4.41E-02	1.63E-01
	KR-85	513.99		0.43	1.72E+01	1.72E+01	1.57E+01	8.13E+00
	SR-85	513.99		99.27	9.91E-02	9.91E-02	9.06E-02	4.68E-02
	Y-88	898.02		93.40	8.28E-02	5.51E-02	3.25E-03	3.72E-02
		1836.01		99.38	5.51E-02		-8.53E-03	2.06E-02
	NB-93M	16.57		9.43	5.83E+01	5.83E+01	1.37E+01	2.81E+01
	NB-94	702.63		100.00	6.01E-02	5.43E-02	7.09E-04	2.74E-02
		871.10		100.00	5.43E-02		-7.46E-03	2.40E-02
	NB-95	765.79		99.81	1.22E-01	1.22E-01	6.30E-02	5.62E-02
	NB-95M	235.69		25.00	3.38E+01	3.38E+01	1.65E+01	1.62E+01
	ZR-95	724.18		43.70	1.90E-01	1.26E-01	4.14E-03	8.67E-02
		756.72		55.30	1.26E-01		5.14E-03	5.61E-02
	MO-99	181.06		6.20	4.23E+02	3.46E+02	-9.35E+01	2.01E+02
		739.58		12.80	3.46E+02		5.66E+01	1.57E+02
		778.00		4.50	8.65E+02		3.17E+01	3.84E+02
	RU-103	497.08		89.00	8.97E-02	8.97E-02	1.13E-02	4.13E-02
	RU-106	621.84		9.80	4.91E-01	4.91E-01	-1.95E-01	2.20E-01
	AG-108M	433.93		89.90	5.06E-02	5.06E-02	-8.63E-03	2.34E-02
		614.37		90.40	6.75E-02		7.82E-03	3.11E-02
		722.95		90.50	6.27E-02		-3.59E-02	2.83E-02
	CD-109	88.03		3.72	1.27E+00	1.27E+00	6.28E-02	6.16E-01
	AG-110M	657.75		93.14	5.94E-02	5.94E-02	-4.13E-02	2.68E-02
		677.61		10.53	5.95E-01		1.68E-01	2.71E-01
		706.67		16.46	3.85E-01		2.05E-01	1.75E-01

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	AG-110M	763.93		21.98	2.87E-01	5.94E-02	-2.08E-01	1.29E-01
		884.67		71.63	1.01E-01		4.31E-02	4.58E-02
		1384.27		23.94	3.32E-01		3.12E-02	1.45E-01
+	CD-113M	263.70	*	0.02	2.18E+02	2.18E+02	1.34E+02	1.04E+02
	SN-113	255.12		1.93	2.75E+00	8.26E-02	1.23E+00	1.31E+00
		391.69		64.90	8.26E-02		-5.00E-02	3.84E-02
	TE123M	159.00		84.10	4.91E-02	4.91E-02	-9.11E-03	2.35E-02
	SB-124	602.71		97.87	7.45E-02	7.45E-02	3.80E-02	3.41E-02
		645.85		7.26	1.04E+00		1.40E-01	4.75E-01
		722.78		11.10	6.91E-01		-3.96E-01	3.12E-01
		1691.02		49.00	1.77E-01		2.65E-02	7.35E-02
	I-125	35.49		6.49	2.23E+00	2.23E+00	-2.49E-01	1.07E+00
	SB-125	176.33		6.89	5.23E-01	1.79E-01	9.84E-02	2.49E-01
		427.89		29.33	1.79E-01		7.50E-02	8.36E-02
		463.38		10.35	4.96E-01		4.78E-02	2.30E-01
		600.56		17.80	3.00E-01		7.83E-02	1.37E-01
		635.90		11.32	4.35E-01		-2.46E-02	1.96E-01
	SB-126	414.70		83.30	2.06E-01	2.06E-01	-1.54E-01	9.41E-02
		666.33		99.60	2.57E-01		6.96E-02	1.17E-01
		695.00		99.60	2.50E-01		4.63E-03	1.13E-01
		720.50		53.80	4.64E-01		5.75E-03	2.10E-01
	SN-126	87.57		37.00	1.23E-01	1.23E-01	6.07E-03	5.96E-02
	SB-127	473.00		25.00	2.21E+01	1.56E+01	4.14E+00	1.02E+01
		685.20		35.70	1.56E+01		-1.32E+01	6.98E+00
		783.80		14.70	4.57E+01		2.29E+01	2.06E+01
	I-129	29.78		57.00	3.17E-01	3.17E-01	-1.05E-01	1.52E-01
		33.60		13.20	9.56E-01		4.55E-01	4.61E-01
		39.58		7.52	1.08E+00		-1.88E-01	5.23E-01
	I-131	284.30		6.05	6.63E+00	5.49E-01	-1.86E+00	3.12E+00
		364.48		81.20	5.49E-01		-1.75E-01	2.57E-01
		636.97		7.26	6.76E+00		1.70E+00	3.05E+00
		722.89		1.80	3.04E+01		-1.74E+01	1.37E+01
	TE-132	49.72		13.10	1.14E+02	1.34E+01	-1.05E+02	5.48E+01
		228.16		88.00	1.34E+01		6.79E+00	6.41E+00
	BA-133	81.00		33.00	1.32E-01	1.13E-01	-1.72E-01	6.40E-02
		302.84		17.80	2.60E-01		1.07E-01	1.23E-01
		356.01		60.00	1.13E-01		4.42E-03	5.41E-02
	I-133	529.87		86.30	7.15E+07	7.15E+07	-3.04E+07	3.25E+07
	XE-133	81.00		38.00	3.70E+00	3.70E+00	-4.81E+00	1.79E+00
	CS-134	563.23		8.38	6.43E-01	5.94E-02	-6.20E-02	2.95E-01
		569.32		15.43	3.40E-01		7.05E-02	1.56E-01
		604.70		97.60	5.94E-02		1.32E-02	2.73E-02
		795.84		85.40	7.50E-02		1.88E-02	3.40E-02
		801.93		8.73	6.94E-01		-1.27E-01	3.12E-01
	CS-135	268.24		16.00	2.79E-01	2.79E-01	9.66E-02	1.32E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	1.96E+00	1.75E-01	7.82E-01	9.39E-01
		163.89		4.61	3.23E+00		1.38E+00	1.54E+00
		176.55		13.56	1.01E+00		-4.07E-02	4.80E-01
		273.65		12.66	1.36E+00		-8.77E-02	6.44E-01
		340.57		48.50	4.00E-01		9.28E-02	1.88E-01

Analysis Report for 1508002-09

DUPLICATE 5

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
CS-136	818.50	99.70	1.75E-01	1.75E-01	-2.73E-02	7.53E-02
	1048.07	79.60	2.31E-01		8.48E-03	9.68E-02
	1235.34	19.70	1.51E+00		-8.73E-01	6.68E-01
CS-137	661.65	85.12	7.04E-02	7.04E-02	2.94E-02	3.22E-02
LA-138	788.74	34.00	1.85E-01	1.05E-01	4.31E-02	8.39E-02
	1435.80	66.00	1.05E-01		-1.71E-02	4.54E-02
CE-139	165.85	80.35	5.06E-02	5.06E-02	2.49E-03	2.41E-02
BA-140	162.64	6.70	2.32E+00	8.01E-01	1.22E+00	1.11E+00
	304.84	4.50	4.13E+00		-1.09E+00	1.95E+00
	423.70	3.20	6.93E+00		2.16E+00	3.24E+00
	437.55	2.00	1.05E+01		4.18E+00	4.91E+00
	537.32	25.00	8.01E-01		-2.37E-01	3.66E-01
LA-140	328.77	20.50	9.96E-01	2.38E-01	4.73E-01	4.70E-01
	487.03	45.50	4.47E-01		2.09E-01	2.06E-01
	815.85	23.50	8.19E-01		3.95E-02	3.56E-01
	1596.49	95.49	2.38E-01		-4.50E-02	9.61E-02
CE-141	145.44	48.40	1.20E-01	1.20E-01	-2.19E-02	5.74E-02
CE-143	57.36	11.80	2.47E+05	1.01E+05	1.91E+05	1.20E+05
	293.26	42.00	1.01E+05		8.52E+03	4.88E+04
	664.55	5.20	6.47E+05		9.76E+03	2.96E+05
CE-144	133.54	10.80	3.16E-01	3.16E-01	-5.18E-02	1.51E-01
PM-144	476.78	42.00	1.16E-01	5.51E-02	-1.47E-02	5.35E-02
	618.01	98.60	5.51E-02		2.90E-02	2.50E-02
	696.49	99.49	5.80E-02		-2.27E-02	2.62E-02
PM-145	36.85	21.70	4.59E-01	2.40E-01	4.02E-01	2.21E-01
	37.36	39.70	2.40E-01		-5.50E-02	1.16E-01
	42.30	15.10	4.83E-01		-1.14E-01	2.33E-01
	72.40	2.31	2.20E+00		7.74E-02	1.07E+00
PM-146	453.90	39.94	1.21E-01	1.21E-01	1.59E-02	5.57E-02
	735.90	14.01	3.75E-01		-1.49E-01	1.68E-01
	747.13	13.10	3.40E-01		-2.72E-01	1.48E-01
ND-147	91.11	28.90	8.81E-01	8.81E-01	4.82E-01	4.29E-01
	531.02	13.10	1.79E+00		-1.07E+00	8.13E-01
PM-149	285.90	3.10	5.51E+03	5.51E+03	-4.28E+02	2.61E+03
EU-152	121.78	20.50	1.57E-01	1.57E-01	3.42E-02	7.53E-02
	244.69	5.40	1.02E+00		-1.52E-01	4.92E-01
	344.27	19.13	2.35E-01		-1.78E-02	1.10E-01
	778.89	9.20	5.25E-01		-1.37E-01	2.31E-01
	964.01	10.40	5.97E-01		1.83E-02	2.65E-01
	1085.78	7.22	7.71E-01		2.37E-01	3.32E-01
	1112.02	9.60	6.81E-01		2.92E-01	3.00E-01
	1407.95	14.94	4.60E-01		-2.20E-01	1.98E-01
GD-153	97.43	31.30	1.33E-01	1.33E-01	4.37E-02	6.42E-02
	103.18	22.20	1.63E-01		-1.03E-01	7.84E-02
EU-154	123.07	40.50	8.11E-02	8.11E-02	1.26E-03	3.88E-02
	723.30	19.70	2.90E-01		-1.66E-01	1.31E-01
	873.19	11.50	4.65E-01		-3.97E-01	2.04E-01
	996.32	10.30	5.51E-01		7.27E-02	2.41E-01
	1004.76	17.90	3.01E-01		1.50E-02	1.30E-01
	1274.45	35.50	2.06E-01		-4.96E-02	9.08E-02
EU-155	86.50	30.90	1.51E-01	1.51E-01	4.46E-02	7.33E-02
	105.30	20.70	1.69E-01		8.41E-02	8.14E-02
EU-156	811.77	10.40	1.47E+00	1.47E+00	-1.09E-01	6.40E-01

Analysis Report for 1508002-09

DUPLICATE 5

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-156	1153.47		7.20	3.10E+00	1.47E+00	6.06E-01	1.36E+00
		1230.71		8.90	2.83E+00		3.53E-01	1.26E+00
	HO-166M	184.41		72.60	6.86E-02	6.86E-02	1.24E-01	3.31E-02
		280.45		29.60	1.35E-01		-5.42E-02	6.34E-02
		410.94		11.10	4.29E-01		2.62E-01	2.00E-01
		711.69		54.10	8.23E-02		-7.52E-02	3.62E-02
	TM-171	66.72		0.14	3.44E+01	3.44E+01	-4.45E+01	1.67E+01
	HF-172	81.75		4.52	1.02E+00	2.92E-01	-1.16E+00	4.95E-01
		125.81		11.30	2.92E-01		-1.22E-01	1.39E-01
	LU-172	181.53		20.60	2.58E+00	1.48E+00	-6.04E-02	1.22E+00
		810.06		16.63	4.44E+00		-1.75E+00	1.95E+00
		912.12		15.25	7.11E+00		3.33E+00	3.22E+00
		1093.66		62.50	1.48E+00		2.61E-01	6.48E-01
	LU-173	100.72		5.24	7.11E-01	2.21E-01	1.34E-01	3.42E-01
		272.11		21.20	2.21E-01		8.27E-02	1.05E-01
	HF-175	343.40		84.00	6.83E-02	6.83E-02	-9.77E-03	3.19E-02
	LU-176	88.34		13.30	3.45E-01	4.88E-02	1.08E-01	1.68E-01
		201.83		86.00	5.00E-02		-3.82E-03	2.39E-02
		306.78		94.00	4.88E-02		1.38E-02	2.30E-02
	TA-182	67.75		41.20	1.35E-01	1.35E-01	1.29E-02	6.53E-02
		1121.30		34.90	3.72E-01		4.47E-01	1.73E-01
		1189.05		16.23	4.60E-01		2.22E-02	2.00E-01
		1221.41		26.98	2.05E-01		-1.59E-01	8.39E-02
		1231.02		11.44	7.44E-01		-1.73E-02	3.28E-01
	IR-192	308.46		29.68	1.96E-01	1.36E-01	-1.70E-02	9.22E-02
		468.07		48.10	1.36E-01		7.33E-03	6.32E-02
	HG-203	279.19		77.30	7.74E-02	7.74E-02	-2.27E-02	3.64E-02
	BI-207	569.67		97.72	5.13E-02	5.13E-02	-1.59E-02	2.34E-02
		1063.62		74.90	7.29E-02		-1.15E-03	3.14E-02
	TL-208	583.14		30.22	2.07E-01	2.07E-01	8.43E-02	9.61E-02
		860.37		4.48	1.35E+00		5.76E-01	6.07E-01
		2614.66		35.85	2.23E-01		5.30E-02	9.13E-02
+	BI-210M	262.00	*	45.00	1.11E-01	1.11E-01	6.83E-02	5.29E-02
		300.00		23.00	2.06E-01		-4.06E-02	9.76E-02
	PB-210	46.50		4.25	1.64E+00	1.64E+00	1.86E+00	7.93E-01
	PB-211	404.84		2.90	1.56E+00	1.56E+00	-9.91E-01	7.22E-01
		831.96		2.90	2.07E+00		2.97E-01	9.29E-01
	BI-212	727.17		11.80	5.57E-01	5.57E-01	1.70E-01	2.55E-01
		1620.62		2.75	2.48E+00		1.66E-01	1.05E+00
+	PB-212	238.63	*	44.60	1.67E-01	1.67E-01	1.90E-01	8.12E-02
		300.09		3.41	1.39E+00		-2.74E-01	6.58E-01
+	BI-214	609.31	*	46.30	1.23E-01	1.23E-01	8.13E-01	5.66E-02
		1120.29	*	15.10	4.02E-01		9.07E-01	1.75E-01
		1764.49	*	15.80	5.82E-01		8.82E-01	2.55E-01
		2204.22	*	4.98	1.25E+00		9.27E-01	4.95E-01
+	PB-214	295.21	*	19.19	2.13E-01	1.68E-01	9.61E-01	9.98E-02
		351.92	*	37.19	1.68E-01		7.64E-01	8.00E-02
	RN-219	401.80		6.50	7.83E-01	7.83E-01	3.04E-01	3.66E-01
	RA-223	323.87		3.88	1.22E+00	1.22E+00	6.42E-01	5.74E-01
	RA-224	240.98		3.95	1.70E+00	1.70E+00	3.60E+00	8.24E-01
	RA-225	40.00		31.00	8.80E-01	8.80E-01	-1.52E-01	4.24E-01
+	RA-226	186.21	*	3.28	1.87E+00	1.87E+00	1.59E+00	9.09E-01
	TH-227	50.10		8.40	6.51E-01	4.71E-01	-6.02E-01	3.14E-01

Analysis Report for 1508002-09

DUPLICATE 5

Nuclide Name	Energy (keV)	Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
TH-227	236.00	11.50	4.71E-01	4.71E-01	2.30E-01	2.26E-01
	256.20	6.30	6.91E-01		1.96E-01	3.28E-01
AC-228	338.32	11.40	4.14E-01	2.57E-01	9.38E-02	1.95E-01
	911.07	27.70	2.57E-01		5.29E-02	1.17E-01
	969.11	16.60	4.05E-01		2.09E-01	1.81E-01
TH-230	48.44	16.90	3.69E-01	3.69E-01	8.11E-02	1.78E-01
	62.85	4.60	1.15E+00		5.70E-01	5.58E-01
	67.67	0.37	1.28E+01		1.23E+00	6.20E+00
PA-231	283.67	1.60	2.59E+00	2.00E+00	-7.29E-01	1.22E+00
	302.67	2.30	2.00E+00		8.25E-01	9.45E-01
TH-231	25.64	14.70	2.40E+00	6.98E-01	-9.39E-01	1.16E+00
	84.21	6.40	6.98E-01		-3.57E-01	3.39E-01
PA-233	311.98	38.60	2.38E-01	2.38E-01	1.87E-02	1.12E-01
PA-234	131.20	20.40	1.64E-01	1.64E-01	1.67E-02	7.87E-02
	733.99	8.80	6.23E-01		7.42E-02	2.80E-01
	946.00	12.00	4.50E-01		6.09E-02	1.97E-01
PA-234M	1001.03	0.92	6.16E+00	6.16E+00	-4.33E-01	2.69E+00
TH-234	63.29	3.80	1.42E+00	1.42E+00	1.87E+00	6.91E-01
U-235	143.76	10.50	3.39E-01	3.39E-01	2.32E-01	1.62E-01
	163.35	4.70	7.91E-01		3.39E-01	3.78E-01
	205.31	4.70	9.12E-01		1.89E-01	4.36E-01
NP-237	86.50	12.60	3.66E-01	3.66E-01	1.08E-01	1.78E-01
NP-239	106.10	22.70	3.41E+02	3.41E+02	3.93E+01	1.64E+02
	228.18	10.70	9.46E+02		4.78E+02	4.51E+02
	277.60	14.10	6.65E+02		-8.64E+01	3.13E+02
AM-241	59.54	35.90	1.40E-01	1.40E-01	-1.52E-01	6.79E-02
AM-243	74.67	66.00	8.82E-02	8.82E-02	7.06E-02	4.30E-02
CM-243	209.75	3.29	1.28E+00	2.91E-01	-3.73E-01	6.09E-01
	228.14	10.60	4.15E-01		2.10E-01	1.98E-01
	277.60	14.00	2.91E-01		-3.79E-02	1.37E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

Analysis Report for 1508002-09
DUPLICATE 5

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: DUPLICATE 5

Elapsed Live time: 3600
Elapsed Real Time: 3611

Channel								
1:	0	0	0	0	0	0	0	0
9:	15	124	123	105	91	88	51	63
17:	63	45	42	26	35	49	51	55
25:	48	41	53	44	56	36	28	53
33:	45	38	40	64	50	45	52	36
41:	60	47	51	28	69	67	99	51
49:	46	57	51	52	43	61	53	48
57:	53	62	76	72	46	70	104	118
65:	58	68	65	73	73	70	75	73
73:	64	81	138	118	185	186	60	74
81:	71	69	62	86	81	64	78	98
89:	68	69	73	81	140	91	37	59
97:	44	56	55	54	38	38	44	41
105:	37	40	48	30	36	35	37	22
113:	61	30	34	36	27	25	37	26
121:	37	41	34	26	30	29	40	34
129:	39	34	33	32	30	36	23	29
137:	33	29	28	26	36	32	38	38
145:	34	31	16	29	33	27	29	32
153:	38	36	36	26	31	37	25	30
161:	30	24	44	33	35	27	25	26
169:	25	26	32	34	22	26	27	26
177:	20	34	17	27	25	22	32	18
185:	41	96	67	27	18	22	30	28
193:	21	28	21	18	23	27	23	35
201:	19	18	29	17	23	21	26	25
209:	17	15	20	24	20	31	18	22
217:	17	26	22	21	21	24	17	18
225:	18	22	15	30	17	17	23	15
233:	15	21	14	23	25	30	80	35
241:	31	62	54	23	21	11	15	17
249:	21	25	9	19	15	11	23	19
257:	25	14	8	17	12	27	21	13
265:	19	15	10	14	25	14	15	14
273:	11	22	11	15	13	16	7	14
281:	11	9	13	12	14	15	13	18
289:	17	23	16	16	5	26	86	105
297:	32	6	12	17	15	6	17	13
305:	13	16	14	11	11	16	6	17
313:	10	18	17	11	16	15	8	7
321:	9	15	16	15	7	13	16	11
329:	11	16	15	14	9	11	3	11
337:	13	18	20	10	9	11	11	9
345:	12	9	12	13	10	12	47	164
353:	95	10	9	11	14	10	14	12
361:	14	9	10	8	14	5	12	12

369:	11	11	9	14	11	11	5	10

Sample Title: DUPLICATE 5

Channel								
377:	12	10	7	11	5	5	13	8
385:	9	16	14	11	9	7	10	9
393:	8	11	6	13	10	9	13	8
401:	18	9	9	6	9	7	7	8
409:	8	12	13	7	4	8	7	1
417:	5	7	8	5	10	9	7	12
425:	11	11	12	9	11	4	8	4
433:	7	9	5	7	9	6	10	13
441:	11	4	6	4	7	6	9	8
449:	7	7	9	5	4	6	7	8
457:	11	4	8	8	6	12	9	5
465:	11	3	9	7	11	5	9	6
473:	10	2	7	9	4	3	8	10
481:	10	7	1	8	5	4	7	8
489:	9	5	4	5	6	7	4	11
497:	8	6	6	5	8	5	3	2
505:	7	5	9	7	9	18	38	26
513:	11	7	11	6	3	7	6	9
521:	6	3	8	3	6	7	6	2
529:	4	6	7	3	5	5	8	7
537:	6	6	3	2	5	11	3	3
545:	5	6	8	4	8	7	6	6
553:	2	3	5	5	6	4	8	7
561:	8	4	8	3	6	5	8	5
569:	6	8	5	1	3	6	8	4
577:	6	2	8	3	7	7	13	15
585:	8	3	9	4	9	5	4	6
593:	5	3	4	2	6	4	2	3
601:	8	5	6	8	4	4	2	13
609:	112	88	21	5	2	3	3	4
617:	10	6	3	4	3	3	2	6
625:	4	3	2	2	4	3	2	2
633:	4	8	1	3	2	4	5	7
641:	4	3	4	2	5	8	7	5
649:	5	4	7	3	5	7	4	5
657:	4	6	3	4	3	10	5	5
665:	10	4	1	5	8	4	1	5
673:	2	3	6	6	4	6	1	4
681:	9	5	5	0	5	1	4	4
689:	6	7	4	6	3	6	6	1
697:	5	6	3	5	8	5	3	5
705:	4	6	3	8	2	6	0	3
713:	2	2	3	4	7	4	4	3
721:	3	3	7	3	7	4	10	8
729:	6	3	4	4	2	5	4	2
737:	6	3	2	5	6	7	4	2
745:	3	1	1	2	4	3	3	5
753:	6	5	3	4	1	2	4	4
761:	1	2	6	7	4	4	5	9
769:	11	8	5	2	4	3	5	2
777:	4	2	4	1	3	2	3	3
785:	3	6	8	1	2	7	4	4
793:	2	6	5	9	2	5	2	5

801:	1	6	5	4	4	9	2	4

Sample Title: DUPLICATE 5

Channel								
809:	3	2	4	0	2	4	0	0
817:	4	3	2	1	3	3	0	3
825:	2	2	2	1	4	2	2	2
833:	4	5	7	8	2	1	9	3
841:	1	3	4	6	5	3	4	5
849:	3	4	3	1	5	4	1	1
857:	1	4	2	4	6	4	4	5
865:	1	4	3	4	3	4	1	6
873:	0	1	3	3	8	5	2	2
881:	4	6	1	5	7	3	4	2
889:	4	1	1	2	7	4	4	2
897:	6	4	6	4	1	1	4	1
905:	2	5	3	4	3	2	10	7
913:	3	3	4	3	1	2	4	6
921:	1	2	5	3	4	0	1	3
929:	0	2	2	2	2	8	7	6
937:	4	2	4	2	1	2	3	0
945:	2	2	2	3	4	1	4	2
953:	2	2	2	1	2	2	0	1
961:	4	3	3	4	2	0	5	3
969:	6	6	2	3	1	0	3	6
977:	2	2	0	2	5	1	2	4
985:	3	3	1	3	0	1	0	1
993:	1	2	4	2	3	2	2	3
1001:	3	2	1	3	1	4	2	1
1009:	1	1	4	4	3	3	1	0
1017:	3	1	1	3	1	4	4	6
1025:	3	2	1	1	2	3	1	0
1033:	1	2	3	1	2	5	2	1
1041:	2	1	1	2	1	2	1	1
1049:	2	2	0	2	0	2	2	2
1057:	9	2	4	2	1	1	3	2
1065:	3	1	1	1	1	2	0	0
1073:	2	3	4	2	5	3	3	2
1081:	0	2	1	2	1	4	3	0
1089:	2	2	0	3	2	2	6	1
1097:	4	1	2	2	0	2	2	2
1105:	3	0	2	1	3	2	3	4
1113:	2	2	2	1	1	1	8	22
1121:	17	7	0	2	3	1	0	5
1129:	0	3	3	1	1	5	3	3
1137:	1	1	2	2	3	1	2	2
1145:	5	2	2	2	1	1	3	1
1153:	1	2	6	4	3	2	1	1
1161:	2	3	3	5	3	3	2	1
1169:	1	4	2	3	4	3	1	4
1177:	2	1	1	1	3	6	2	4
1185:	0	4	1	3	2	2	3	0
1193:	1	3	4	4	1	6	2	3
1201:	0	3	2	2	3	1	1	0
1209:	3	3	1	3	3	3	2	3
1217:	3	1	1	2	1	2	0	0
1225:	1	4	4	4	2	7	1	0

1233:	3	2	1	3	4	7	8	4

Sample Title: DUPLICATE 5

Channel								
1241:	5	2	3	1	1	3	1	1
1249:	4	1	3	3	3	6	2	2
1257:	2	4	4	3	5	3	2	1
1265:	0	0	1	2	4	1	0	1
1273:	1	2	2	6	2	3	2	2
1281:	5	1	2	1	1	1	0	1
1289:	4	2	3	2	4	2	1	1
1297:	4	4	0	1	1	1	5	3
1305:	1	0	0	2	6	1	1	1
1313:	1	3	1	2	3	1	1	0
1321:	1	1	1	0	0	1	1	5
1329:	3	0	2	5	4	2	2	0
1337:	1	1	0	2	0	3	2	1
1345:	1	2	4	2	2	2	2	2
1353:	2	1	0	2	2	0	0	0
1361:	1	1	0	1	0	1	2	2
1369:	2	3	0	2	1	0	0	3
1377:	6	7	0	0	2	2	3	2
1385:	3	2	2	0	0	0	4	1
1393:	1	1	1	2	0	1	4	1
1401:	3	5	1	2	1	0	1	4
1409:	1	0	1	3	2	2	2	2
1417:	0	4	1	0	1	1	0	3
1425:	2	2	2	0	1	2	2	1
1433:	0	3	2	2	2	0	1	0
1441:	4	1	1	2	2	1	2	1
1449:	1	0	1	1	2	0	2	1
1457:	1	1	2	16	25	20	4	4
1465:	1	1	0	3	0	1	0	2
1473:	1	1	1	0	1	4	2	0
1481:	1	0	1	0	1	0	0	1
1489:	0	1	0	2	0	4	1	0
1497:	2	0	1	0	0	1	2	1
1505:	2	1	2	3	2	5	0	1
1513:	3	0	0	2	1	2	3	0
1521:	1	1	3	1	1	1	1	1
1529:	0	1	0	0	1	1	1	2
1537:	1	2	0	1	0	1	0	1
1545:	1	3	0	2	1	1	1	0
1553:	3	0	0	1	1	0	0	0
1561:	3	1	3	3	0	0	1	2
1569:	1	0	0	0	1	2	1	2
1577:	0	0	0	1	1	0	0	0
1585:	0	1	0	0	1	2	1	0
1593:	0	1	0	4	0	0	1	0
1601:	0	1	0	1	0	0	1	1
1609:	0	4	0	1	0	1	0	0
1617:	0	0	4	3	0	2	1	0
1625:	0	1	0	2	3	0	1	0
1633:	1	1	2	1	2	1	0	1
1641:	0	1	1	1	1	0	1	0
1649:	2	1	0	1	0	0	0	1
1657:	0	1	1	0	1	2	0	0

1665:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
1673:	0	0	0	0	1	1	0	0
1681:	1	1	1	2	0	2	2	1
1689:	1	2	0	0	2	0	0	0
1697:	0	1	0	0	0	0	0	1
1705:	0	0	0	1	0	1	1	1
1713:	0	0	0	0	1	0	1	1
1721:	0	1	0	0	1	0	1	0
1729:	1	1	4	0	0	0	1	0
1737:	0	1	0	0	2	1	1	1
1745:	0	0	1	0	1	1	0	0
1753:	1	0	1	0	1	1	2	1
1761:	1	1	7	9	13	7	3	1
1769:	0	1	1	0	1	1	0	0
1777:	0	1	0	1	0	0	1	0
1785:	0	0	0	0	0	2	1	0
1793:	0	0	1	0	0	0	1	1
1801:	1	0	0	1	0	1	0	0
1809:	1	1	1	0	0	0	0	1
1817:	0	0	0	2	0	1	1	0
1825:	0	2	0	1	0	0	1	0
1833:	0	0	1	0	0	0	1	0
1841:	1	1	0	0	2	1	2	4
1849:	2	1	0	0	2	1	0	1
1857:	1	1	0	0	0	2	0	1
1865:	0	0	0	1	0	0	0	1
1873:	0	0	1	0	0	0	0	1
1881:	0	0	0	3	0	2	0	0
1889:	0	0	1	1	0	0	3	1
1897:	0	0	0	0	0	1	0	0
1905:	0	0	0	0	0	0	1	0
1913:	1	0	1	2	1	1	0	0
1921:	0	1	1	0	1	2	0	0
1929:	0	0	1	1	0	0	0	0
1937:	1	1	0	1	0	0	0	0
1945:	1	0	1	1	0	0	1	1
1953:	0	0	3	0	0	0	0	0
1961:	0	1	1	0	2	0	0	2
1969:	1	3	1	1	0	0	2	0
1977:	1	1	0	0	0	0	1	0
1985:	0	0	0	0	0	0	0	2
1993:	0	0	0	0	1	0	1	0
2001:	0	1	0	0	0	1	0	0
2009:	0	0	1	0	0	2	0	3
2017:	1	0	0	1	0	1	0	1
2025:	0	0	1	0	2	1	0	2
2033:	0	0	0	0	0	0	0	0
2041:	0	0	0	0	1	0	1	0
2049:	0	0	0	0	1	1	1	0
2057:	0	0	1	0	0	0	0	0
2065:	0	0	1	0	2	0	0	0
2073:	0	0	0	0	0	0	0	0
2081:	0	1	1	1	0	2	1	0
2089:	2	0	0	1	0	1	0	0

2097:	1	1	0	1	0	0	0	1

Sample Title: DUPLICATE 5

Channel								
2105:	0	0	0	0	0	0	1	0
2113:	0	1	0	0	0	1	0	1
2121:	1	1	0	0	0	1	0	1
2129:	0	0	0	1	0	1	0	1
2137:	1	0	0	0	1	1	0	1
2145:	0	1	0	1	0	1	1	0
2153:	0	0	0	0	1	0	2	1
2161:	0	0	0	0	0	1	0	1
2169:	0	0	0	0	0	0	1	0
2177:	0	0	1	1	1	0	0	1
2185:	2	0	0	1	1	0	1	0
2193:	0	0	0	0	0	0	1	0
2201:	0	0	1	4	8	0	0	2
2209:	0	1	0	0	0	0	0	0
2217:	1	2	1	0	0	0	2	0
2225:	1	1	0	0	0	0	0	0
2233:	1	0	1	0	2	0	2	0
2241:	0	0	1	0	0	1	0	0
2249:	0	0	1	0	0	1	0	1
2257:	0	0	0	2	1	0	0	0
2265:	1	0	0	0	0	0	0	0
2273:	0	0	0	1	1	1	0	1
2281:	1	0	0	1	0	2	0	1
2289:	1	0	1	0	0	2	1	1
2297:	0	0	0	0	0	1	0	0
2305:	0	1	0	0	0	0	0	0
2313:	0	0	0	3	0	0	1	0
2321:	1	1	0	0	1	0	0	0
2329:	0	0	0	0	1	0	0	0
2337:	1	0	0	0	1	0	1	0
2345:	0	0	0	0	1	1	0	0
2353:	0	0	0	1	0	1	0	0
2361:	0	0	0	0	0	0	1	0
2369:	0	0	0	0	2	3	0	0
2377:	0	1	1	0	0	0	0	0
2385:	2	0	0	0	0	1	1	0
2393:	0	0	1	1	0	0	0	0
2401:	0	0	0	0	0	1	0	0
2409:	0	0	0	0	0	0	0	2
2417:	0	0	0	0	0	1	0	0
2425:	2	0	0	0	0	0	0	0
2433:	0	0	0	0	0	0	0	0
2441:	0	0	0	0	0	0	1	0
2449:	0	0	1	0	0	1	0	1
2457:	0	1	0	0	0	0	2	2
2465:	0	0	0	0	0	0	0	1
2473:	0	0	0	0	1	0	0	0
2481:	0	0	0	0	0	0	0	3
2489:	0	0	0	0	0	0	1	0
2497:	0	1	0	0	0	0	0	0
2505:	0	0	1	0	0	0	0	0
2513:	0	0	0	0	0	0	0	0
2521:	0	0	0	1	0	0	0	0

2529:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
2537:	0	0	0	0	1	0	1	1
2545:	0	0	0	1	0	0	1	0
2553:	0	0	1	0	0	0	0	0
2561:	0	0	0	0	0	0	0	1
2569:	0	0	0	0	1	1	0	1
2577:	0	0	0	0	0	0	0	0
2585:	0	0	1	0	0	0	0	0
2593:	0	0	0	2	0	0	0	0
2601:	0	0	1	0	0	0	0	0
2609:	0	1	0	0	0	5	0	0
2617:	1	0	0	2	0	0	0	0
2625:	1	1	1	1	0	0	1	1
2633:	0	1	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	1	0
2657:	0	1	0	0	1	0	1	1
2665:	0	0	1	0	0	0	1	0
2673:	0	0	0	0	0	0	1	0
2681:	0	0	0	1	0	0	0	0
2689:	0	0	0	0	0	2	1	0
2697:	0	0	1	0	0	0	0	0
2705:	0	0	0	0	1	0	3	1
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	0	0	1	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	1	0	0	0	0	0
2745:	0	0	0	0	0	0	0	1
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	1	1	0	0	0	1	0
2777:	0	0	0	0	0	0	0	0
2785:	1	0	0	0	0	0	0	0
2793:	0	0	0	1	0	0	1	0
2801:	0	0	2	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	0	0	0	0	0	0	0
2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	0	0	2	2	0
2873:	0	0	1	0	0	0	1	0
2881:	0	0	1	1	0	0	0	0
2889:	0	0	1	0	1	0	1	0
2897:	0	0	1	0	0	0	0	0
2905:	0	0	0	0	0	0	1	0
2913:	0	0	0	2	1	0	0	0
2921:	0	0	0	0	0	0	0	1
2929:	0	1	0	0	0	0	1	0
2937:	0	0	0	0	0	0	1	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0

2961:	1	0	1	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
2969:	0	0	0	0	0	0	0	0
2977:	1	0	1	0	1	0	1	0
2985:	0	0	0	0	0	0	0	1
2993:	0	0	0	0	1	1	0	0
3001:	0	0	2	0	0	0	0	0
3009:	0	0	0	1	0	0	0	0
3017:	0	0	0	1	0	0	1	0
3025:	1	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	1	0	0	0	0
3065:	0	0	0	0	0	0	0	0
3073:	1	1	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	1
3089:	1	1	0	0	0	0	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	1	0	1	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	2	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	1	0	0	0	0	1
3201:	0	1	0	0	0	0	0	0
3209:	0	0	1	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	1	0	1	0
3249:	0	0	1	0	0	0	0	0
3257:	0	1	0	1	0	0	0	1
3265:	0	0	0	0	0	1	0	0
3273:	0	0	0	1	0	0	0	1
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	1	0
3313:	0	0	0	0	1	0	0	0
3321:	0	0	2	0	0	0	0	0
3329:	0	0	0	0	1	0	0	0
3337:	0	1	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	1	0	0	0	0	1
3369:	0	0	0	0	0	0	0	0
3377:	0	0	1	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	1	0	0	0	0	0

Sample Title: DUPLICATE 5

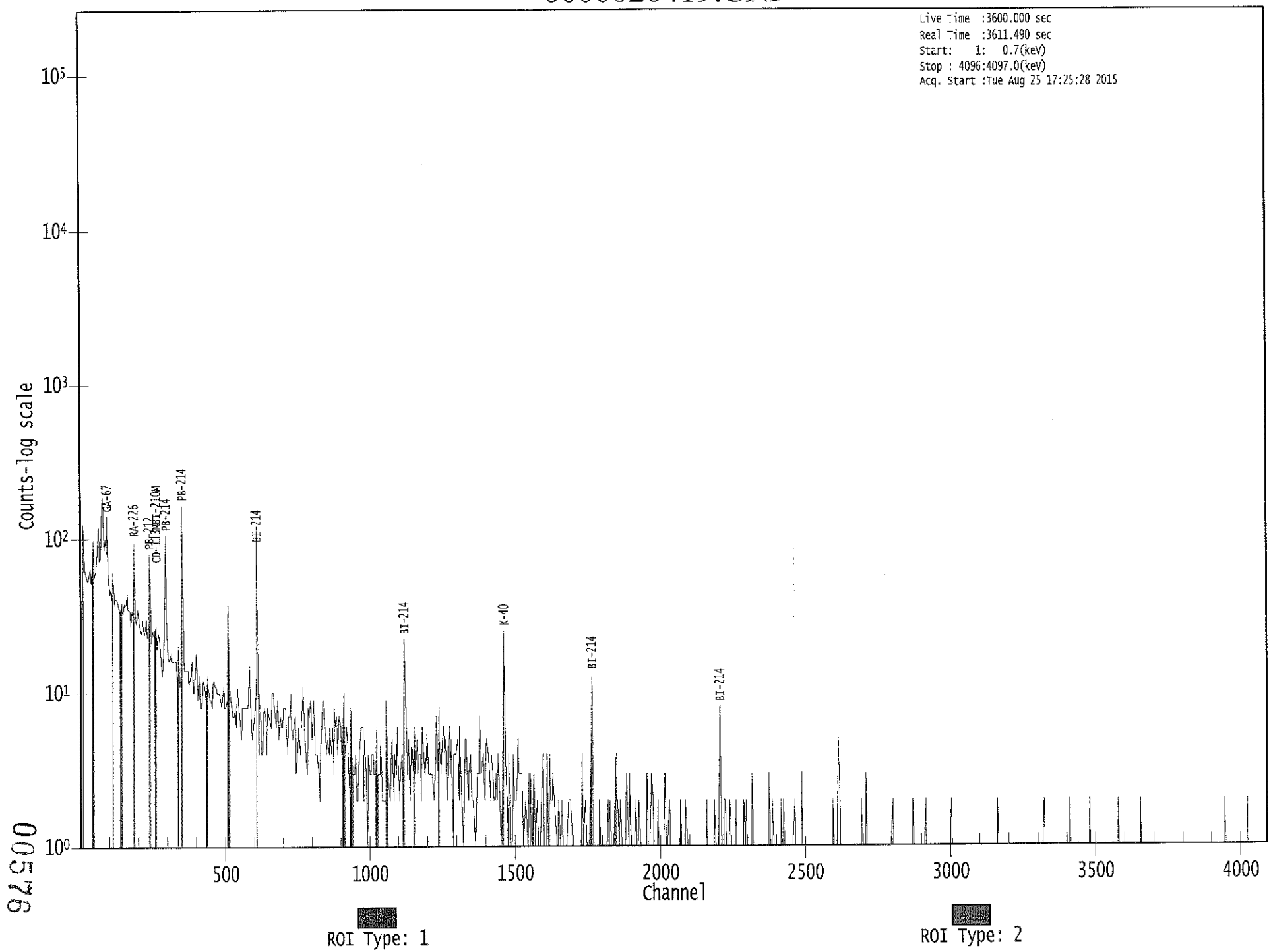
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	1	0	2	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	1	0
3433:	0	1	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	1	0	0
3457:	0	0	0	0	0	0	1	0
3465:	1	0	0	0	0	0	0	0
3473:	0	0	0	0	0	0	2	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	0	0	0	0	0
3521:	1	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	1	0	1	1	0
3553:	0	0	0	0	1	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	1	0	0	0	0
3577:	2	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	1	0	1
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	1	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	1	0	0	0	1
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	1	2	1	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	1	0	0	0	1	0	0	0
3697:	1	0	1	0	1	0	0	0
3705:	0	0	0	0	0	0	0	1
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	1	0	0	1	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	1	0	0	0	0	0	0
3761:	0	0	0	0	1	0	0	0
3769:	0	1	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0
3793:	0	0	1	0	0	1	0	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

Sample Title: DUPLICATE 5

Channel								
3833:	0	0	0	0	0	1	0	1
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	1	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	1	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	1	0	0	0	0	0	0	0
3897:	0	0	0	1	0	0	0	0
3905:	0	0	0	0	0	0	1	0
3913:	0	1	0	0	0	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	1	0	0	0	0	0	0
3945:	2	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	1	0	0
3969:	0	0	0	1	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	1
4009:	0	0	1	0	0	0	0	0
4017:	0	0	0	0	0	0	0	2
4025:	0	0	0	0	0	0	0	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	1	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

0000026419.CNF



00576

Apex-Gamma

Analysis Report for 1508002-10
FEEBRIS1D-20 089-090

8/26

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-10
Sample Description	: FEEBRIS1D-20 089-090
Sample Type	: SOIL
Sample Size	: 5.007E+02 grams
Facility	: Countroom
Sample Taken On	: 7/30/2015 10:41:27AM
Acquisition Started	: 8/25/2015 6:18:10PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 3600.0 seconds
Real Time	: 3601.1 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 7 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26423

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 7:18:14PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	46.90	47.01	0.0000	0.00
2	76.42	76.51	0.0000	0.00
3	87.37	87.46	0.0000	0.00
4	92.68	92.76	0.0000	0.00
5	105.36	105.43	0.0000	0.00
6	130.10	130.15	0.0000	0.00
7	174.36	174.39	0.0000	0.00
8	186.02	186.05	0.0000	0.00
9	210.13	210.15	0.0000	0.00
10	238.83	238.83	0.0000	0.00
11	242.08	242.07	0.0000	0.00
12	270.22	270.20	0.0000	0.00
13	277.05	277.03	0.0000	0.00
14	295.42	295.39	0.0000	0.00
15	300.63	300.59	0.0000	0.00
16	338.54	338.48	0.0000	0.00
17	351.97	351.90	0.0000	0.00
18	410.64	410.54	0.0000	0.00
19	462.86	462.74	0.0000	0.00
20	511.01	510.87	0.0000	0.00
21	583.18	583.00	0.0000	0.00
22	597.06	596.87	0.0000	0.00
23	609.39	609.19	0.0000	0.00
24	658.79	658.58	0.0000	0.00
25	662.19	661.97	0.0000	0.00
26	666.76	666.54	0.0000	0.00
27	729.20	728.96	0.0000	0.00
28	801.19	800.92	0.0000	0.00
29	822.41	822.12	0.0000	0.00
30	860.91	860.61	0.0000	0.00
31	886.98	886.67	0.0000	0.00
32	904.23	903.91	0.0000	0.00
33	911.45	911.12	0.0000	0.00
34	962.35	962.00	0.0000	0.00
35	969.15	968.80	0.0000	0.00
36	972.55	972.20	0.0000	0.00
37	1120.43	1120.03	0.0000	0.00
38	1239.45	1239.00	0.0000	0.00
39	1260.98	1260.52	0.0000	0.00
40	1377.09	1376.59	0.0000	0.00
41	1402.35	1401.85	0.0000	0.00
42	1408.73	1408.23	0.0000	0.00

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	1438.02	1437.50	0.0000	0.00
44	1452.62	1452.10	0.0000	0.00
45	1461.12	1460.60	0.0000	0.00
46	1631.79	1631.22	0.0000	0.00
47	1646.00	1645.43	0.0000	0.00
48	1716.33	1715.73	0.0000	0.00
49	1764.74	1764.13	0.0000	0.00
50	1812.28	1811.67	0.0000	0.00
51	2103.97	2103.29	0.0000	0.00
52	2119.10	2118.42	0.0000	0.00
53	2204.91	2204.22	0.0000	0.00
54	2614.56	2613.82	0.0000	0.00
55	2805.25	2804.50	0.0000	0.00

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	46.90	44	50	47.01	1.75E+02	85.75	1.16E+03	1.29
	2	76.42	72	81	76.51	8.30E+02	131.31	1.99E+03	3.60
	3	87.37	86	89	87.46	6.02E+01	62.83	9.28E+02	1.54
	4	92.68	90	96	92.76	2.66E+02	87.89	1.15E+03	1.51
	5	105.36	103	107	105.43	5.32E+01	54.33	6.04E+02	2.35
	6	130.10	128	133	130.15	6.45E+01	61.12	6.95E+02	1.15
	7	174.36	172	177	174.39	6.70E+01	52.93	5.02E+02	3.46
	8	186.02	181	190	186.05	2.00E+02	84.04	8.94E+02	1.65
	9	210.13	206	213	210.15	5.47E+01	64.78	6.61E+02	1.60
M	10	238.83	234	246	238.83	6.77E+02	68.25	3.69E+02	1.55
m	11	242.08	234	246	242.07	1.52E+02	50.78	3.43E+02	1.56
	12	270.22	267	273	270.20	8.26E+01	49.10	3.79E+02	1.61
	13	277.05	274	280	277.03	5.25E+01	48.45	3.89E+02	1.20
	14	295.42	292	298	295.39	2.73E+02	53.77	3.23E+02	1.95
	15	300.63	299	304	300.59	7.11E+01	39.66	2.62E+02	1.80
	16	338.54	334	342	338.48	1.04E+02	58.50	4.60E+02	1.63
	17	351.97	348	355	351.90	4.36E+02	59.87	3.05E+02	1.36
	18	410.64	406	416	410.54	6.88E+01	52.01	3.22E+02	2.52
	19	462.86	459	466	462.74	3.67E+01	38.52	2.21E+02	1.82
	20	511.01	506	515	510.87	2.12E+02	46.58	1.86E+02	1.81
	21	583.18	578	587	583.00	2.45E+02	51.58	2.40E+02	1.71
	22	597.06	591	604	596.87	6.10E+01	43.38	1.82E+02	10.78
	23	609.39	605	614	609.19	3.56E+02	52.28	1.92E+02	1.88
M	24	658.79	657	669	658.58	1.39E+01	13.02	3.76E+01	2.32
m	25	662.19	657	669	661.97	5.34E+01	26.56	7.93E+01	2.36
m	26	666.76	657	669	666.54	1.67E+01	20.15	5.70E+01	2.57
	27	729.20	725	735	728.96	4.87E+01	37.27	1.59E+02	1.89
	28	801.19	791	809	800.92	5.24E+01	54.19	2.35E+02	13.42
	29	822.41	819	826	822.12	2.02E+01	22.18	6.95E+01	3.29
	30	860.91	857	865	860.61	3.20E+01	26.70	9.00E+01	2.06
	31	886.98	879	895	886.67	5.35E+01	38.20	1.17E+02	9.75
	32	904.23	902	906	903.91	1.51E+01	16.14	4.39E+01	2.46
	33	911.45	907	916	911.12	1.44E+02	38.22	1.30E+02	2.15
M	34	962.35	957	979	962.00	2.35E+01	21.33	7.08E+01	1.99
m	35	969.15	957	979	968.80	9.42E+01	28.16	5.88E+01	2.19
m	36	972.55	957	979	972.20	1.77E+01	25.15	4.94E+01	2.19
	37	1120.43	1115	1125	1120.03	1.11E+02	33.86	9.46E+01	2.84
	38	1239.45	1235	1243	1239.00	2.93E+01	30.91	1.25E+02	3.46
	39	1260.98	1257	1264	1260.52	1.75E+01	19.60	5.31E+01	3.56
	40	1377.09	1371	1383	1376.59	2.36E+01	21.90	4.48E+01	4.15

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	1402.35	1399 -	1412	1401.85	1.84E+01	11.18	1.64E+01	2.51
m	42	1408.73	1399 -	1412	1408.23	1.65E+01	13.27	1.83E+01	2.51
	43	1438.02	1434 -	1441	1437.50	1.33E+01	13.11	1.94E+01	1.68
	44	1452.62	1449 -	1455	1452.10	1.35E+01	13.77	2.50E+01	2.81
	45	1461.12	1456 -	1465	1460.60	6.60E+02	52.69	1.82E+01	2.61
	46	1631.79	1627 -	1634	1631.22	1.14E+01	11.83	1.53E+01	2.71
	47	1646.00	1641 -	1649	1645.43	1.41E+01	10.61	7.78E+00	5.28
	48	1716.33	1712 -	1720	1715.73	8.50E+00	8.02	5.00E+00	3.47
	49	1764.74	1758 -	1768	1764.13	7.40E+01	21.47	2.20E+01	2.65
	50	1812.28	1808 -	1813	1811.67	6.00E+00	4.90	0.00E+00	1.47
	51	2103.97	2099 -	2109	2103.29	1.33E+01	13.22	1.55E+01	3.63
	52	2119.10	2115 -	2121	2118.42	1.12E+01	8.02	3.54E+00	3.76
	53	2204.91	2200 -	2208	2204.22	2.20E+01	10.78	4.08E+00	2.79
	54	2614.56	2609 -	2617	2613.82	8.99E+01	19.70	4.16E+00	1.89
	55	2805.25	2801 -	2806	2804.50	6.00E+00	4.90	0.00E+00	1.16

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	46.90	44 -	50	1.75E+02	85.75	1.16E+03	6.70E+01
	2	76.42	72 -	81	8.30E+02	131.31	1.99E+03	9.70E+01
	3	87.37	86 -	89	6.02E+01	62.83	9.28E+02	5.00E+01
	4	92.68	90 -	96	2.66E+02	87.89	1.15E+03	6.71E+01
	5	105.36	103 -	107	5.32E+01	54.33	6.04E+02	4.30E+01
	6	130.10	128 -	133	6.45E+01	61.12	6.95E+02	4.85E+01
	7	174.36	172 -	177	6.70E+01	52.93	5.02E+02	4.14E+01
	8	186.02	181 -	190	2.00E+02	84.04	8.94E+02	6.51E+01
	9	210.13	206 -	213	5.47E+01	64.78	6.61E+02	5.18E+01
M	10	238.83	234 -	246	6.77E+02	68.25	3.69E+02	3.16E+01
m	11	242.08	234 -	246	1.52E+02	50.78	3.43E+02	3.04E+01
	12	270.22	267 -	273	8.26E+01	49.10	3.79E+02	3.75E+01
	13	277.05	274 -	280	5.25E+01	48.45	3.89E+02	3.80E+01

00581

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	14	295.42	292 -	298	2.73E+02	53.77	3.23E+02	3.49E+01
	15	300.63	299 -	304	7.11E+01	39.66	2.62E+02	2.95E+01
	16	338.54	334 -	342	1.04E+02	58.50	4.60E+02	4.51E+01
	17	351.97	348 -	355	4.36E+02	59.87	3.05E+02	3.53E+01
	18	410.64	406 -	416	6.88E+01	52.01	3.22E+02	4.05E+01
	19	462.86	459 -	466	3.67E+01	38.52	2.21E+02	3.01E+01
	20	511.01	506 -	515	2.12E+02	46.58	1.86E+02	2.99E+01
	21	583.18	578 -	587	2.45E+02	51.58	2.40E+02	3.37E+01
	22	597.06	591 -	604	6.10E+01	43.38	1.82E+02	3.33E+01
	23	609.39	605 -	614	3.56E+02	52.28	1.92E+02	2.97E+01
M	24	658.79	657 -	669	1.39E+01	13.02	3.76E+01	1.01E+01
m	25	662.19	657 -	669	5.34E+01	26.56	7.93E+01	1.46E+01
m	26	666.76	657 -	669	1.67E+01	20.15	5.70E+01	1.24E+01
	27	729.20	725 -	735	4.87E+01	37.27	1.59E+02	1.26E+01
	28	801.19	791 -	809	5.24E+01	54.19	2.35E+02	4.29E+01
	29	822.41	819 -	826	2.02E+01	22.18	6.95E+01	1.67E+01
	30	860.91	857 -	865	3.20E+01	26.70	9.00E+01	1.99E+01
	31	886.98	879 -	895	5.35E+01	38.20	1.17E+02	2.90E+01
	32	904.23	902 -	906	1.51E+01	16.14	4.39E+01	1.16E+01
	33	911.45	907 -	916	1.44E+02	38.22	1.30E+02	2.45E+01
M	34	962.35	957 -	979	2.35E+01	21.33	7.08E+01	1.38E+01
m	35	969.15	957 -	979	9.42E+01	28.16	5.88E+01	1.26E+01
m	36	972.55	957 -	979	1.77E+01	25.15	4.94E+01	1.16E+01
	37	1120.43	1115 -	1125	1.11E+02	33.86	9.46E+01	2.18E+01
	38	1239.45	1235 -	1243	2.93E+01	30.91	1.25E+02	2.38E+01
	39	1260.98	1257 -	1264	1.75E+01	19.60	5.31E+01	1.46E+01
	40	1377.09	1371 -	1383	2.36E+01	21.90	4.48E+01	1.61E+01
M	41	1402.35	1399 -	1412	1.84E+01	11.18	1.64E+01	6.65E+00
m	42	1408.73	1399 -	1412	1.65E+01	13.27	1.83E+01	7.03E+00
	43	1438.02	1434 -	1441	1.33E+01	13.11	1.94E+01	8.96E+00
	44	1452.62	1449 -	1455	1.35E+01	13.77	2.50E+01	9.58E+00
	45	1461.12	1456 -	1465	6.60E+02	52.69	1.82E+01	9.60E+00
	46	1631.79	1627 -	1634	1.14E+01	11.83	1.53E+01	7.99E+00
	47	1646.00	1641 -	1649	1.41E+01	10.61	7.78E+00	6.15E+00
	48	1716.33	1712 -	1720	8.50E+00	8.02	5.00E+00	4.52E+00
	49	1764.74	1758 -	1768	7.40E+01	21.47	2.20E+01	1.06E+01
	50	1812.28	1808 -	1813	6.00E+00	4.90	0.00E+00	0.00E+00
	51	2103.97	2099 -	2109	1.33E+01	13.22	1.55E+01	9.07E+00
	52	2119.10	2115 -	2121	1.12E+01	8.02	3.54E+00	3.61E+00
	53	2204.91	2200 -	2208	2.20E+01	10.78	4.08E+00	4.38E+00
	54	2614.56	2609 -	2617	8.99E+01	19.70	4.16E+00	4.39E+00
	55	2805.25	2801 -	2806	6.00E+00	4.90	0.00E+00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

00582

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	46.90	44 -	50	47.01	1.75E+02	85.75	1.16E+03	PB-210
	2	76.42	72 -	81	76.51	8.30E+02	131.31	1.99E+03	.....
	3	87.37	86 -	89	87.46	6.02E+01	62.83	9.28E+02	SN-126
									CD-109
									NP-237
									EU-155
									LU-176
	4	92.68	90 -	96	92.76	2.66E+02	87.89	1.15E+03	GA-67
	5	105.36	103 -	107	105.43	5.32E+01	54.33	6.04E+02	EU-155
									NP-239
	6	130.10	128 -	133	130.15	6.45E+01	61.12	6.95E+02	.....
	7	174.36	172 -	177	174.39	6.70E+01	52.93	5.02E+02	.....
	8	186.02	181 -	190	186.05	2.00E+02	84.04	8.94E+02	RA-226
	9	210.13	206 -	213	210.15	5.47E+01	64.78	6.61E+02	CM-243
M	10	238.83	234 -	246	238.83	6.77E+02	68.25	3.69E+02	PB-212
m	11	242.08	234 -	246	242.07	1.52E+02	50.78	3.43E+02	.....
	12	270.22	267 -	273	270.20	8.26E+01	49.10	3.79E+02	.....
	13	277.05	274 -	280	277.03	5.25E+01	48.45	3.89E+02	CM-243
									NP-239
	14	295.42	292 -	298	295.39	2.73E+02	53.77	3.23E+02	PB-214
	15	300.63	299 -	304	300.59	7.11E+01	39.66	2.62E+02	GA-67
									PB-212
									BI-210M
	16	338.54	334 -	342	338.48	1.04E+02	58.50	4.60E+02	AC-228
	17	351.97	348 -	355	351.90	4.36E+02	59.87	3.05E+02	PB-214
	18	410.64	406 -	416	410.54	6.88E+01	52.01	3.22E+02	HO-166M
	19	462.86	459 -	466	462.74	3.67E+01	38.52	2.21E+02	SB-125
	20	511.01	506 -	515	510.87	2.12E+02	46.58	1.86E+02	.....
	21	583.18	578 -	587	583.00	2.45E+02	51.58	2.40E+02	TL-208
	22	597.06	591 -	604	596.87	6.10E+01	43.38	1.82E+02	.....
	23	609.39	605 -	614	609.19	3.56E+02	52.28	1.92E+02	BI-214
M	24	658.79	657 -	669	658.58	1.39E+01	13.02	3.76E+01	.....
m	25	662.19	657 -	669	661.97	5.34E+01	26.56	7.93E+01	CS-137
m	26	666.76	657 -	669	666.54	1.67E+01	20.15	5.70E+01	SB-126
	27	729.20	725 -	735	728.96	4.87E+01	37.27	1.59E+02	.....
	28	801.19	791 -	809	800.92	5.24E+01	54.19	2.35E+02	CS-134
	29	822.41	819 -	826	822.12	2.02E+01	22.18	6.95E+01	.....
	30	860.91	857 -	865	860.61	3.20E+01	26.70	9.00E+01	TL-208

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	31	886.98	879 -	895	886.67	5.35E+01	38.20	1.17E+02	.....
	32	904.23	902 -	906	903.91	1.51E+01	16.14	4.39E+01	.....
	33	911.45	907 -	916	911.12	1.44E+02	38.22	1.30E+02	AC-228
									LU-172
M	34	962.35	957 -	979	962.00	2.35E+01	21.33	7.08E+01	.....
m	35	969.15	957 -	979	968.80	9.42E+01	28.16	5.88E+01	AC-228
m	36	972.55	957 -	979	972.20	1.77E+01	25.15	4.94E+01	.....
	37	1120.43	1115 -	1125	1120.03	1.11E+02	33.86	9.46E+01	SC-46
									BI-214
									TA-182
	38	1239.45	1235 -	1243	1239.00	2.93E+01	30.91	1.25E+02	.....
	39	1260.98	1257 -	1264	1260.52	1.75E+01	19.60	5.31E+01	I-135
	40	1377.09	1371 -	1383	1376.59	2.36E+01	21.90	4.48E+01	.....
M	41	1402.35	1399 -	1412	1401.85	1.84E+01	11.18	1.64E+01	.....
m	42	1408.73	1399 -	1412	1408.23	1.65E+01	13.27	1.83E+01	EU-152
	43	1438.02	1434 -	1441	1437.50	1.33E+01	13.11	1.94E+01	.....
	44	1452.62	1449 -	1455	1452.10	1.35E+01	13.77	2.50E+01	.....
	45	1461.12	1456 -	1465	1460.60	6.60E+02	52.69	1.82E+01	K-40
	46	1631.79	1627 -	1634	1631.22	1.14E+01	11.83	1.53E+01	.....
	47	1646.00	1641 -	1649	1645.43	1.41E+01	10.61	7.78E+00	.....
	48	1716.33	1712 -	1720	1715.73	8.50E+00	8.02	5.00E+00	.....
	49	1764.74	1758 -	1768	1764.13	7.40E+01	21.47	2.20E+01	BI-214
	50	1812.28	1808 -	1813	1811.67	6.00E+00	4.90	0.00E+00	.....
	51	2103.97	2099 -	2109	2103.29	1.33E+01	13.22	1.55E+01	.....
	52	2119.10	2115 -	2121	2118.42	1.12E+01	8.02	3.54E+00	.....
	53	2204.91	2200 -	2208	2204.22	2.20E+01	10.78	4.08E+00	BI-214
	54	2614.56	2609 -	2617	2613.82	8.99E+01	19.70	4.16E+00	TL-208
	55	2805.25	2801 -	2806	2804.50	6.00E+00	4.90	0.00E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
1	46.90	1.75E+02	85.75	1.37E-02	1.68E-03
2	76.42	8.30E+02	131.31	2.74E-02	3.35E-03

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	3	87.37	6.02E+01	62.83	2.84E-02	4.44E-03
	4	92.68	2.66E+02	87.89	2.85E-02	4.30E-03
	5	105.36	5.32E+01	54.33	2.80E-02	3.73E-03
	6	130.10	6.45E+01	61.12	2.59E-02	2.75E-03
	7	174.36	6.70E+01	52.93	2.20E-02	1.67E-03
	8	186.02	2.00E+02	84.04	2.11E-02	1.65E-03
	9	210.13	5.47E+01	64.78	1.95E-02	1.63E-03
M	10	238.83	6.77E+02	68.25	1.79E-02	1.60E-03
m	11	242.08	1.52E+02	50.78	1.77E-02	1.60E-03
	12	270.22	8.26E+01	49.10	1.64E-02	1.57E-03
	13	277.05	5.25E+01	48.45	1.62E-02	1.56E-03
	14	295.42	2.73E+02	53.77	1.55E-02	1.48E-03
	15	300.63	7.11E+01	39.66	1.53E-02	1.45E-03
	16	338.54	1.04E+02	58.50	1.41E-02	1.27E-03
	17	351.97	4.36E+02	59.87	1.37E-02	1.21E-03
	18	410.64	6.88E+01	52.01	1.23E-02	1.00E-03
	19	462.86	3.67E+01	38.52	1.13E-02	9.47E-04
	20	511.01	2.12E+02	46.58	1.06E-02	8.98E-04
	21	583.18	2.45E+02	51.58	9.58E-03	8.25E-04
	22	597.06	6.10E+01	43.38	9.41E-03	8.11E-04
	23	609.39	3.56E+02	52.28	9.27E-03	7.98E-04
M	24	658.79	1.39E+01	13.02	8.73E-03	7.48E-04
m	25	662.19	5.34E+01	26.56	8.70E-03	7.45E-04
m	26	666.76	1.67E+01	20.15	8.65E-03	7.42E-04
	27	729.20	4.87E+01	37.27	8.07E-03	7.02E-04
	28	801.19	5.24E+01	54.19	7.49E-03	6.56E-04
	29	822.41	2.02E+01	22.18	7.33E-03	6.42E-04
	30	860.91	3.20E+01	26.70	7.06E-03	6.17E-04
	31	886.98	5.35E+01	38.20	6.89E-03	6.00E-04
	32	904.23	1.51E+01	16.14	6.79E-03	5.90E-04
	33	911.45	1.44E+02	38.22	6.74E-03	5.86E-04
M	34	962.35	2.35E+01	21.33	6.45E-03	5.60E-04
m	35	969.15	9.42E+01	28.16	6.41E-03	5.57E-04
m	36	972.55	1.77E+01	25.15	6.40E-03	5.55E-04
	37	1120.43	1.11E+02	33.86	5.70E-03	4.80E-04
	38	1239.45	2.93E+01	30.91	5.27E-03	4.83E-04
	39	1260.98	1.75E+01	19.60	5.20E-03	4.93E-04
	40	1377.09	2.36E+01	21.90	4.87E-03	5.08E-04
M	41	1402.35	1.84E+01	11.18	4.81E-03	4.97E-04
m	42	1408.73	1.65E+01	13.27	4.79E-03	4.95E-04
	43	1438.02	1.33E+01	13.11	4.72E-03	4.83E-04
	44	1452.62	1.35E+01	13.77	4.69E-03	4.77E-04
	45	1461.12	6.60E+02	52.69	4.67E-03	4.73E-04
	46	1631.79	1.14E+01	11.83	4.36E-03	4.02E-04
	47	1646.00	1.41E+01	10.61	4.34E-03	3.97E-04
	48	1716.33	8.50E+00	8.02	4.24E-03	3.67E-04
	49	1764.74	7.40E+01	21.47	4.18E-03	3.47E-04
	50	1812.28	6.00E+00	4.90	4.13E-03	3.28E-04
	51	2103.97	1.33E+01	13.22	3.95E-03	3.18E-04
	52	2119.10	1.12E+01	8.02	3.95E-03	3.18E-04
	53	2204.91	2.20E+01	10.78	3.93E-03	3.18E-04
	54	2614.56	8.99E+01	19.70	4.05E-03	3.18E-04
	55	2805.25	6.00E+00	4.90	4.21E-03	3.18E-04

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	46.90	1.75E+02	85.75	7.29E+01	8.80E+00	1.03E+02	8.62E+01
	2	76.42	8.30E+02	131.31			8.30E+02	1.31E+02
	3	87.37	6.02E+01	62.83	6.84E+00	1.23E+00	5.34E+01	6.28E+01
	4	92.68	2.66E+02	87.89	6.54E+01	3.76E+00	2.00E+02	8.80E+01
	5	105.36	5.32E+01	54.33			5.32E+01	5.43E+01
	6	130.10	6.45E+01	61.12			6.45E+01	6.11E+01
	7	174.36	6.70E+01	52.93			6.70E+01	5.29E+01
	8	186.02	2.00E+02	84.04	4.78E+01	7.95E+00	1.52E+02	8.44E+01
	9	210.13	5.47E+01	64.78			5.47E+01	6.48E+01
M	10	238.83	6.77E+02	68.25	1.43E+01	7.07E+00	6.63E+02	6.86E+01
m	11	242.08	1.52E+02	50.78			1.52E+02	5.08E+01
	12	270.22	8.26E+01	49.10	1.77E+00	6.25E+00	8.08E+01	4.95E+01
	13	277.05	5.25E+01	48.45			5.25E+01	4.85E+01
	14	295.42	2.73E+02	53.77	9.61E+00	5.92E+00	2.64E+02	5.41E+01
	15	300.63	7.11E+01	39.66			7.11E+01	3.97E+01
	16	338.54	1.04E+02	58.50			1.04E+02	5.85E+01
	17	351.97	4.36E+02	59.87	1.56E+01	5.52E+00	4.20E+02	6.01E+01
	18	410.64	6.88E+01	52.01			6.88E+01	5.20E+01
	19	462.86	3.67E+01	38.52			3.67E+01	3.85E+01
	20	511.01	2.12E+02	46.58	8.01E+01	5.53E+00	1.32E+02	4.69E+01
	21	583.18	2.45E+02	51.58	6.24E+00	3.96E+00	2.39E+02	5.17E+01
	22	597.06	6.10E+01	43.38			6.10E+01	4.34E+01
	23	609.39	3.56E+02	52.28	1.38E+01	3.84E+00	3.42E+02	5.24E+01
M	24	658.79	1.39E+01	13.02			1.39E+01	1.30E+01
m	25	662.19	5.34E+01	26.56	9.64E+00	3.60E+00	4.38E+01	2.68E+01
m	26	666.76	1.67E+01	20.15			1.67E+01	2.01E+01
	27	729.20	4.87E+01	37.27			4.87E+01	3.73E+01
	28	801.19	5.24E+01	54.19			5.24E+01	5.42E+01
	29	822.41	2.02E+01	22.18			2.02E+01	2.22E+01
	30	860.91	3.20E+01	26.70			3.20E+01	2.67E+01
	31	886.98	5.35E+01	38.20			5.35E+01	3.82E+01
	32	904.23	1.51E+01	16.14			1.51E+01	1.61E+01
	33	911.45	1.44E+02	38.22	7.18E+00	2.77E+00	1.37E+02	3.83E+01
M	34	962.35	2.35E+01	21.33			2.35E+01	2.13E+01
m	35	969.15	9.42E+01	28.16			9.42E+01	2.82E+01

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	36	972.55	1.77E+01	25.15			1.77E+01	2.52E+01
	37	1120.43	1.11E+02	33.86	3.25E+00	2.68E+00	1.07E+02	3.40E+01
	38	1239.45	2.93E+01	30.91	1.77E+00	2.41E+00	2.75E+01	3.10E+01
	39	1260.98	1.75E+01	19.60			1.75E+01	1.96E+01
	40	1377.09	2.36E+01	21.90			2.36E+01	2.19E+01
M	41	1402.35	1.84E+01	11.18			1.84E+01	1.12E+01
m	42	1408.73	1.65E+01	13.27			1.65E+01	1.33E+01
	43	1438.02	1.33E+01	13.11			1.33E+01	1.31E+01
	44	1452.62	1.35E+01	13.77			1.35E+01	1.38E+01
	45	1461.12	6.60E+02	52.69	1.14E+01	2.53E+00	6.49E+02	5.27E+01
	46	1631.79	1.14E+01	11.83			1.14E+01	1.18E+01
	47	1646.00	1.41E+01	10.61			1.41E+01	1.06E+01
	48	1716.33	8.50E+00	8.02			8.50E+00	8.02E+00
	49	1764.74	7.40E+01	21.47	3.50E+00	2.20E+00	7.05E+01	2.16E+01
	50	1812.28	6.00E+00	4.90			6.00E+00	4.90E+00
	51	2103.97	1.33E+01	13.22			1.33E+01	1.32E+01
	52	2119.10	1.12E+01	8.02			1.12E+01	8.02E+00
	53	2204.91	2.20E+01	10.78			2.20E+01	1.08E+01
	54	2614.56	8.99E+01	19.70	8.08E+00	1.71E+00	8.18E+01	1.98E+01
	55	2805.25	6.00E+00	4.90			6.00E+00	4.90E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 7:18:14PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
1	46.90	1.75E+02	85.75	7.29E+01	8.80E+00	1.03E+02	8.62E+01
2	76.42	8.30E+02	131.31			8.30E+02	1.31E+02
3	87.37	6.02E+01	62.83	6.84E+00	1.23E+00	5.34E+01	6.28E+01
4	92.68	2.66E+02	87.89	6.54E+01	3.76E+00	2.00E+02	8.80E+01
5	105.36	5.32E+01	54.33			5.32E+01	5.43E+01
6	130.10	6.45E+01	61.12			6.45E+01	6.11E+01
7	174.36	6.70E+01	52.93			6.70E+01	5.29E+01
8	186.02	2.00E+02	84.04	4.78E+01	7.95E+00	1.52E+02	8.44E+01

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	9	210.13	5.47E+01	64.78			5.47E+01	6.48E+01
M	10	238.83	6.77E+02	68.25	1.43E+01	7.07E+00	6.63E+02	6.86E+01
m	11	242.08	1.52E+02	50.78			1.52E+02	5.08E+01
	12	270.22	8.26E+01	49.10	1.77E+00	6.25E+00	8.08E+01	4.95E+01
	13	277.05	5.25E+01	48.45			5.25E+01	4.85E+01
	14	295.42	2.73E+02	53.77	9.61E+00	5.92E+00	2.64E+02	5.41E+01
	15	300.63	7.11E+01	39.66			7.11E+01	3.97E+01
	16	338.54	1.04E+02	58.50			1.04E+02	5.85E+01
	17	351.97	4.36E+02	59.87	1.56E+01	5.52E+00	4.20E+02	6.01E+01
	18	410.64	6.88E+01	52.01			6.88E+01	5.20E+01
	19	462.86	3.67E+01	38.52			3.67E+01	3.85E+01
	20	511.01	2.12E+02	46.58	8.01E+01	5.53E+00	1.32E+02	4.69E+01
	21	583.18	2.45E+02	51.58	6.24E+00	3.96E+00	2.39E+02	5.17E+01
	22	597.06	6.10E+01	43.38			6.10E+01	4.34E+01
	23	609.39	3.56E+02	52.28	1.38E+01	3.84E+00	3.42E+02	5.24E+01
M	24	658.79	1.39E+01	13.02			1.39E+01	1.30E+01
m	25	662.19	5.34E+01	26.56	9.64E+00	3.60E+00	4.38E+01	2.68E+01
m	26	666.76	1.67E+01	20.15			1.67E+01	2.01E+01
	27	729.20	4.87E+01	37.27			4.87E+01	3.73E+01
	28	801.19	5.24E+01	54.19			5.24E+01	5.42E+01
	29	822.41	2.02E+01	22.18			2.02E+01	2.22E+01
	30	860.91	3.20E+01	26.70			3.20E+01	2.67E+01
	31	886.98	5.35E+01	38.20			5.35E+01	3.82E+01
	32	904.23	1.51E+01	16.14			1.51E+01	1.61E+01
	33	911.45	1.44E+02	38.22	7.18E+00	2.77E+00	1.37E+02	3.83E+01
M	34	962.35	2.35E+01	21.33			2.35E+01	2.13E+01
m	35	969.15	9.42E+01	28.16			9.42E+01	2.82E+01
m	36	972.55	1.77E+01	25.15			1.77E+01	2.52E+01
	37	1120.43	1.11E+02	33.86	3.25E+00	2.68E+00	1.07E+02	3.40E+01
	38	1239.45	2.93E+01	30.91	1.77E+00	2.41E+00	2.75E+01	3.10E+01
	39	1260.98	1.75E+01	19.60			1.75E+01	1.96E+01
	40	1377.09	2.36E+01	21.90			2.36E+01	2.19E+01
M	41	1402.35	1.84E+01	11.18			1.84E+01	1.12E+01
m	42	1408.73	1.65E+01	13.27			1.65E+01	1.33E+01
	43	1438.02	1.33E+01	13.11			1.33E+01	1.31E+01
	44	1452.62	1.35E+01	13.77			1.35E+01	1.38E+01
	45	1461.12	6.60E+02	52.69	1.14E+01	2.53E+00	6.49E+02	5.27E+01
	46	1631.79	1.14E+01	11.83			1.14E+01	1.18E+01
	47	1646.00	1.41E+01	10.61			1.41E+01	1.06E+01
	48	1716.33	8.50E+00	8.02			8.50E+00	8.02E+00
	49	1764.74	7.40E+01	21.47	3.50E+00	2.20E+00	7.05E+01	2.16E+01
	50	1812.28	6.00E+00	4.90			6.00E+00	4.90E+00
	51	2103.97	1.33E+01	13.22			1.33E+01	1.32E+01
	52	2119.10	1.12E+01	8.02			1.12E+01	8.02E+00
	53	2204.91	2.20E+01	10.78			2.20E+01	1.08E+01
	54	2614.56	8.99E+01	19.70	8.08E+00	1.71E+00	8.18E+01	1.98E+01
	55	2805.25	6.00E+00	4.90			6.00E+00	4.90E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.985	1460.81	*	10.67	1.95E+01	2.57E+00
GA-67	0.643	93.31	*	35.70	7.97E+01	2.90E+02
		208.95		2.24		
		300.22	*	16.00	1.18E+02	4.30E+02
CS-137	0.954	661.65	*	85.12	8.88E-02	5.49E-02
EU-155	0.929	86.50	*	30.90	9.21E-02	1.09E-01
		105.30	*	20.70	1.39E-01	1.43E-01
TL-208	0.996	583.14	*	30.22	1.24E+00	2.88E-01
		860.37	*	4.48	1.52E+00	1.27E+00
		2614.66	*	35.85	8.45E-01	2.15E-01
PB-210	0.974	46.50	*	4.25	2.65E+00	2.25E+00
PB-212	0.991	238.63	*	44.60	1.25E+00	1.71E-01
		300.09	*	3.41	2.05E+00	1.16E+00
BI-214	0.992	609.31	*	46.30	1.20E+00	2.10E-01
		1120.29	*	15.10	1.87E+00	6.12E-01
		1764.49	*	15.80	1.60E+00	5.07E-01
		2204.22	*	4.98	1.68E+00	8.37E-01
PB-214	0.997	295.21	*	19.19	1.33E+00	3.02E-01
		351.92	*	37.19	1.23E+00	2.07E-01
RA-226	0.994	186.21	*	3.28	3.30E+00	6.31E+00
AC-228	0.987	338.32	*	11.40	9.71E-01	5.53E-01
		911.07	*	27.70	1.10E+00	3.22E-01
		969.11	*	16.60	1.33E+00	4.13E-01
CM-243	0.347	209.75	*	3.29	1.28E+00	1.52E+00
		228.14		10.60		
		277.60	*	14.00	3.49E-01	3.24E-01

* = Energy line found in the spectrum.
- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 7:18:14PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.42	2.30583E-01	7.91		
	6	130.10	1.79275E-02	47.35		
	7	174.36	1.86190E-02	39.49	Sum	
m	11	242.08	4.22675E-02	16.68		
	12	270.22	2.24468E-02	30.63		
	18	410.64	1.91129E-02	37.79	Tol.	HO-166M
	19	462.86	1.02041E-02	52.43	Sum	
	20	511.01	3.66264E-02	17.79	Sum	
	22	597.06	1.69444E-02	35.56		
M	24	658.79	3.85191E-03	46.94		
m	26	666.76	4.63188E-03	60.42	Tol.	SB-126
	27	729.20	1.35319E-02	38.26		
	28	801.19	1.45670E-02	51.66	Tol.	CS-134
	29	822.41	5.62121E-03	54.80	Sum	
	31	886.98	1.48487E-02	35.73	Sum	
	32	904.23	4.18168E-03	53.61	Sum	
M	34	962.35	6.52796E-03	45.38	Sum	
m	36	972.55	4.90730E-03	71.19		
	38	1239.45	7.64827E-03	56.30		
	39	1260.98	4.84848E-03	56.13		
	40	1377.09	6.54891E-03	46.45		
M	41	1402.35	5.10891E-03	30.39		
m	42	1408.73	4.58368E-03	40.20	Tol.	EU-152
	43	1438.02	3.68961E-03	49.37		
	44	1452.62	3.75000E-03	51.02		
	46	1631.79	3.15789E-03	52.04	Sum	
	47	1646.00	3.91975E-03	37.58		
	48	1716.33	2.36111E-03	47.15		
	50	1812.28	1.66667E-03	40.82	Sum	
	51	2103.97	3.68386E-03	49.84	S-Esc	
	52	2119.10	3.11966E-03	35.69		
	55	2805.25	1.66667E-03	40.82		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.98	1460.81	*	10.67	1.95E+01	2.57E+00
GA-67	0.64	93.31	*	35.70	7.97E+01	2.90E+02
		208.95		2.24		
		300.22	*	16.00	1.18E+02	4.30E+02
CS-137	0.95	661.65	*	85.12	8.88E-02	5.49E-02
EU-155	0.92	86.50	*	30.90	9.21E-02	1.09E-01
		105.30	*	20.70	1.39E-01	1.43E-01
TL-208	0.99	583.14	*	30.22	1.24E+00	2.88E-01
		860.37	*	4.48	1.52E+00	1.27E+00
		2614.66	*	35.85	8.45E-01	2.15E-01
PB-210	0.97	46.50	*	4.25	2.65E+00	2.25E+00
PB-212	0.99	238.63	*	44.60	1.25E+00	1.71E-01
		300.09	*	3.41	2.05E+00	1.16E+00
BI-214	0.99	609.31	*	46.30	1.20E+00	2.10E-01
		1120.29	*	15.10	1.87E+00	6.12E-01
		1764.49	*	15.80	1.60E+00	5.07E-01
		2204.22	*	4.98	1.68E+00	8.37E-01
PB-214	0.99	295.21	*	19.19	1.33E+00	3.02E-01
		351.92	*	37.19	1.23E+00	2.07E-01
RA-226	0.99	186.21	*	3.28	3.30E+00	6.31E+00
AC-228	0.98	338.32	*	11.40	9.71E-01	5.53E-01
		911.07	*	27.70	1.10E+00	3.22E-01
		969.11	*	16.60	1.33E+00	4.13E-01
CM-243	0.34	209.75	*	3.29	1.28E+00	1.52E+00
		228.14		10.60		
		277.60	*	14.00	3.49E-01	3.24E-01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.985	1.95E+01	2.57E+00	
	GA-67	0.643	7.18E+01	2.49E+02	
X	CD-109	0.933			
X	SN-126	0.994			
	CS-137	0.954	8.88E-02	5.49E-02	
	EU-155	0.929	1.09E-01	8.69E-02	
	TL-208	0.996	9.94E-01	1.71E-01	
	PB-210	0.974	2.65E+00	2.25E+00	
	PB-212	0.991	1.24E+00	1.69E-01	
	BI-214	0.992	1.33E+00	1.81E-01	
	PB-214	0.997	1.27E+00	1.71E-01	
	RA-226	0.994	3.30E+00	6.31E+00	
	AC-228	0.987	1.15E+00	2.31E-01	
X	NP-237	0.886			
X	NP-239	0.330			
	CM-243	0.347	3.89E-01	3.16E-01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 7:18:14PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	2	76.42	2.30583E-01	7.91		
	6	130.10	1.79275E-02	47.35		
	7	174.36	1.86190E-02	39.49	Sum	
m	11	242.08	4.22675E-02	16.68		
	12	270.22	2.24468E-02	30.63		
	18	410.64	1.91129E-02	37.79	Tol.	HO-166M
	19	462.86	1.02041E-02	52.43	Sum	
	20	511.01	3.66264E-02	17.79	Sum	
	22	597.06	1.69444E-02	35.56		
M	24	658.79	3.85191E-03	46.94		
m	26	666.76	4.63188E-03	60.42	Tol.	SB-126
	27	729.20	1.35319E-02	38.26		
	28	801.19	1.45670E-02	51.66	Tol.	CS-134
	29	822.41	5.62121E-03	54.80	Sum	
	31	886.98	1.48487E-02	35.73	Sum	
	32	904.23	4.18168E-03	53.61	Sum	
M	34	962.35	6.52796E-03	45.38	Sum	
m	36	972.55	4.90730E-03	71.19		
	38	1239.45	7.64827E-03	56.30		
	39	1260.98	4.84848E-03	56.13		
	40	1377.09	6.54891E-03	46.45		
M	41	1402.35	5.10891E-03	30.39		
m	42	1408.73	4.58368E-03	40.20	Tol.	EU-152
	43	1438.02	3.68961E-03	49.37		
	44	1452.62	3.75000E-03	51.02		
	46	1631.79	3.15789E-03	52.04	Sum	
	47	1646.00	3.91975E-03	37.58		
	48	1716.33	2.36111E-03	47.15		
	50	1812.28	1.66667E-03	40.82	Sum	
	51	2103.97	3.68386E-03	49.84	S-Esc	
	52	2119.10	3.11966E-03	35.69		
	55	2805.25	1.66667E-03	40.82		

Analysis Report for 1508002-10

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M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-2.34E-01	7.29E-01	7.29E-01
+	NA-22	1274.54		99.94	-4.28E-02	8.23E-02	8.23E-02
+	NA-24	1368.53		99.99	6.29E+10	1.62E+11	2.90E+11
		2754.09		99.86	3.50E+10		1.62E+11
+	AL-26	1808.65		99.76	7.26E-03	5.76E-02	5.76E-02
+	K-40	1460.81	*	10.67	1.95E+01	7.60E-01	7.60E-01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	-2.19E-02	5.25E-02	5.25E-02
		78.34		96.00	2.59E-01		7.58E-02
+	SC-46	889.25		99.98	2.29E-02	9.74E-02	9.74E-02
		1120.51		99.99	3.16E-01		1.86E-01
+	V-48	983.52		99.98	1.31E-02	2.36E-01	2.36E-01
		1312.10		97.50	8.46E-02		2.78E-01
+	CR-51	320.08		9.83	-3.66E-01	9.87E-01	9.87E-01
+	MN-54	834.83		99.97	1.22E-02	8.24E-02	8.24E-02
+	CO-56	846.75		99.96	-1.80E-02	8.68E-02	8.68E-02
		1037.75		14.03	1.42E-01		7.69E-01
		1238.25		67.00	9.66E-02		2.34E-01
		1771.40		15.51	-5.47E-02		5.49E-01
		2598.48		16.90	5.54E-02		2.57E-01
+	CO-57	122.06		85.51	2.75E-02	6.14E-02	6.14E-02
		136.48		10.60	-4.43E-02		5.02E-01
+	CO-58	810.76		99.40	2.39E-02	9.46E-02	9.46E-02
+	FE-59	1099.22		56.50	1.80E-02	2.11E-01	2.11E-01
		1291.56		43.20	2.61E-02		3.44E-01
+	CO-60	1173.22		100.00	2.39E-02	8.02E-02	9.62E-02
		1332.49		100.00	2.19E-02		8.02E-02
+	ZN-65	1115.52		50.75	8.34E-03	1.77E-01	1.77E-01
+	GA-67	93.31	*	35.70	7.97E+01	5.56E+01	5.56E+01
		208.95		2.24	1.98E+02		7.11E+02
		300.22	*	16.00	1.18E+02		1.02E+02
+	SE-75	121.11		16.70	9.97E-02	9.72E-02	3.39E-01

00594

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	SE-75	136.00		59.20	6.95E-03	9.72E-02	9.72E-02
		264.65		59.80	3.03E-02		1.06E-01
		279.53		25.20	2.29E-02		2.68E-01
		400.65		11.40	2.80E-01		6.34E-01
+	RB-82	776.52		13.00	-5.31E-02	1.20E+00	1.20E+00
+	RB-83	520.41		46.00	6.58E-02	1.57E-01	1.57E-01
		529.64		30.30	1.59E-02		2.23E-01
		552.65		16.40	-1.88E-01		4.18E-01
+	KR-85	513.99		0.43	-1.50E+01	1.54E+01	1.54E+01
+	SR-85	513.99		99.27	-8.63E-02	8.87E-02	8.87E-02
+	Y-88	898.02		93.40	1.49E-02	7.26E-02	9.17E-02
		1836.01		99.38	6.93E-03		7.26E-02
+	NB-93M	16.57		9.43	-1.38E+04	5.98E+03	5.98E+03
+	NB-94	702.63		100.00	8.23E-04	7.34E-02	7.41E-02
		871.10		100.00	-1.88E-02		7.34E-02
+	NB-95	765.79		99.81	1.17E-01	1.49E-01	1.49E-01
+	NB-95M	235.69		25.00	-3.59E+02	5.16E+01	5.16E+01
+	ZR-95	724.18		43.70	6.03E-02	1.73E-01	2.56E-01
		756.72		55.30	-5.74E-02		1.73E-01
+	MO-99	181.06		6.20	1.54E+02	4.30E+02	6.48E+02
		739.58		12.80	-1.35E+02		4.30E+02
		778.00		4.50	1.93E+02		1.25E+03
+	RU-103	497.08		89.00	-3.34E-02	1.03E-01	1.03E-01
+	RU-106	621.84		9.80	-1.08E-01	7.33E-01	7.33E-01
+	AG-108M	433.93		89.90	8.20E-03	5.69E-02	5.69E-02
		614.37		90.40	2.16E-02		8.48E-02
		722.95		90.50	3.16E-02		8.55E-02
+	CD-109	88.03	*	3.72	7.87E-01	1.52E+00	1.52E+00
+	AG-110M	657.75		93.14	6.54E-03	9.32E-02	9.32E-02
		677.61		10.53	-2.14E-01		6.73E-01
		706.67		16.46	2.48E-02		4.80E-01
		763.93		21.98	-3.62E-01		3.63E-01
		884.67		71.63	8.43E-03		1.17E-01
		1384.27		23.94	-2.22E-02		2.88E-01
+	CD-113M	263.70		0.02	-1.11E+01	2.39E+02	2.39E+02
+	SN-113	255.12		1.93	1.07E+00	1.01E-01	3.23E+00
		391.69		64.90	-8.36E-03		1.01E-01
+	TE123M	159.00		84.10	8.63E-04	7.39E-02	7.39E-02
+	SB-124	602.71		97.87	-2.17E-01	9.12E-02	9.12E-02
		645.85		7.26	2.75E-01		1.16E+00
		722.78		11.10	3.49E-01		9.43E-01
		1691.02		49.00	-1.14E-01		1.46E-01
+	I-125	35.49		6.49	-1.31E-01	5.53E+00	5.53E+00
+	SB-125	176.33		6.89	-2.63E-01	1.89E-01	7.75E-01
		427.89		29.33	3.55E-02		1.89E-01
		463.38		10.35	4.91E-01		6.59E-01
		600.56		17.80	1.52E-01		3.96E-01
		635.90		11.32	1.80E-01		6.17E-01

Analysis Report for 1508002-10

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	SB-126	414.70		83.30	-5.82E-02	2.90E-01	2.90E-01
		666.33		99.60	-1.60E-01		3.16E-01
		695.00		99.60	2.66E-02		3.28E-01
		720.50		53.80	1.55E-01		6.13E-01
+	SN-126	87.57	*	37.00	7.61E-02	1.47E-01	1.47E-01
+	SB-127	473.00		25.00	1.81E+01	2.22E+01	2.78E+01
		685.20		35.70	-5.31E+00		2.22E+01
		783.80		14.70	3.27E+01		6.17E+01
+	I-129	29.78		57.00	-1.40E-01	1.23E+00	1.23E+00
		33.60		13.20	-9.64E-01		2.61E+00
		39.58		7.52	1.51E-01		2.20E+00
+	I-131	284.30		6.05	1.81E+00	6.12E-01	8.70E+00
		364.48		81.20	-3.41E-01		6.12E-01
		636.97		7.26	4.81E+00		9.29E+00
		722.89		1.80	1.54E+01		4.16E+01
+	TE-132	49.72		13.10	-1.05E+02	1.67E+01	1.35E+02
		228.16		88.00	-3.84E+00		1.67E+01
+	BA-133	81.00		33.00	6.20E-02	8.46E-02	1.34E-01
		302.84		17.80	-1.98E-01		3.28E-01
		356.01		60.00	2.37E-03		8.46E-02
+	I-133	529.87		86.30	-1.37E+07	8.99E+07	8.99E+07
+	XE-133	81.00		38.00	1.74E+00	3.78E+00	3.78E+00
+	CS-134	563.23		8.38	1.50E-01	8.58E-02	7.50E-01
		569.32		15.43	1.15E-01		4.33E-01
		604.70		97.60	-6.84E-01		8.58E-02
		795.84		85.40	4.67E-02		9.88E-02
		801.93		8.73	-2.83E-01		9.04E-01
+	CS-135	268.24		16.00	4.60E-03	3.79E-01	3.79E-01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	-3.01E-01	2.51E-01	2.83E+00
		163.89		4.61	2.52E+00		4.58E+00
		176.55		13.56	-7.80E-02		1.52E+00
		273.65		12.66	-1.54E+00		1.79E+00
		340.57		48.50	-4.68E-01		5.40E-01
		818.50		99.70	2.73E-03		2.51E-01
		1048.07		79.60	1.40E-02		4.34E-01
		1235.34		19.70	-3.85E-02		2.35E+00
+	CS-137	661.65	*	85.12	8.88E-02	1.18E-01	1.18E-01
+	LA-138	788.74		34.00	7.64E-02	1.10E-01	2.27E-01
		1435.80		66.00	-4.80E-03		1.10E-01
+	CE-139	165.85		80.35	-2.07E-02	7.35E-02	7.35E-02
+	BA-140	162.64		6.70	8.31E-02	9.59E-01	3.27E+00
		304.84		4.50	4.55E-01		5.04E+00
		423.70		3.20	3.50E+00		7.70E+00
		437.55		2.00	2.72E+00		1.10E+01
		537.32		25.00	-1.23E-01		9.59E-01
+	LA-140	328.77		20.50	1.12E+00	3.98E-01	1.37E+00

Analysis Report for 1508002-10

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	LA-140	487.03		45.50	-1.12E-02	3.98E-01	5.12E-01
		815.85		23.50	-2.16E-01		1.03E+00
		1596.49		95.49	2.25E-01		3.98E-01
+	CE-141	145.44		48.40	1.23E-01	1.92E-01	1.92E-01
+	CE-143	57.36		11.80	-7.72E+04	1.10E+05	2.49E+05
		293.26		42.00	-4.42E+04		1.10E+05
		664.55		5.20	1.19E+06		9.99E+05
+	CE-144	133.54		10.80	6.29E-03	4.93E-01	4.93E-01
+	PM-144	476.78		42.00	-4.33E-02	7.64E-02	1.35E-01
		618.01		98.60	1.02E-02		7.64E-02
		696.49		99.49	3.93E-02		7.99E-02
+	PM-145	36.85		21.70	3.00E-01	5.32E-01	1.04E+00
		37.36		39.70	1.54E-01		5.32E-01
		42.30		15.10	-1.33E-01		8.62E-01
		72.40		2.31	-2.14E+00		2.06E+00
+	PM-146	453.90		39.94	-3.38E-02	1.43E-01	1.43E-01
		735.90		14.01	-1.32E-01		5.30E-01
		747.13		13.10	1.33E-01		5.95E-01
+	ND-147	91.11		28.90	-3.93E-01	1.18E+00	1.18E+00
		531.02		13.10	-1.73E+00		2.03E+00
+	PM-149	285.90		3.10	-2.60E+02	6.86E+03	6.86E+03
+	EU-152	121.78		20.50	1.08E-01	2.40E-01	2.40E-01
		244.69		5.40	-2.02E+00		1.09E+00
		344.27		19.13	4.52E-02		2.95E-01
		778.89		9.20	-2.41E-01		7.88E-01
		964.01		10.40	-2.40E+00		1.04E+00
		1085.78		7.22	-6.32E-01		1.09E+00
		1112.02		9.60	-1.86E-01		7.93E-01
		1407.95		14.94	-9.16E-02		5.05E-01
+	GD-153	97.43		31.30	9.57E-02	1.61E-01	1.61E-01
		103.18		22.20	2.45E-03		2.30E-01
+	EU-154	123.07		40.50	-1.32E-01	1.17E-01	1.17E-01
		723.30		19.70	1.46E-01		3.95E-01
		873.19		11.50	2.04E-01		6.87E-01
		996.32		10.30	-3.45E-02		7.67E-01
		1004.76		17.90	6.29E-02		4.30E-01
		1274.45		35.50	-1.19E-01		2.29E-01
+	EU-155	86.50	*	30.90	9.21E-02	1.78E-01	1.78E-01
		105.30	*	20.70	1.39E-01		2.32E-01
+	EU-156	811.77		10.40	5.62E-01	2.20E+00	2.20E+00
		1153.47		7.20	2.14E-01		4.59E+00
		1230.71		8.90	-1.19E+00		3.59E+00
+	HO-166M	184.41		72.60	2.65E-02	8.92E-02	8.92E-02
		280.45		29.60	1.68E-02		1.96E-01
		410.94		11.10	3.55E-01		5.97E-01
		711.69		54.10	2.36E-02		1.40E-01
+	TM-171	66.72		0.14	1.64E+01	3.79E+01	3.79E+01
+	HF-172	81.75		4.52	-7.91E-01	4.39E-01	9.80E-01
		125.81		11.30	1.33E-01		4.39E-01

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	LU-172	181.53		20.60	-2.63E+00	2.32E+00	3.94E+00
		810.06		16.63	1.68E+00		6.66E+00
		912.12		15.25	3.12E+01		1.49E+01
		1093.66		62.50	8.29E-01		2.32E+00
+	LU-173	100.72		5.24	5.06E-01	3.13E-01	9.41E-01
		272.11		21.20	5.57E-02		3.13E-01
+	HF-175	343.40		84.00	-2.19E-03	8.95E-02	8.95E-02
+	LU-176	88.34		13.30	2.40E-01	5.54E-02	4.87E-01
		201.83		86.00	-1.20E-02		6.21E-02
		306.78		94.00	-6.35E-03		5.54E-02
+	TA-182	67.75		41.20	-5.89E-02	1.41E-01	1.41E-01
		1121.30		34.90	9.18E-01		5.11E-01
		1189.05		16.23	2.49E-01		7.29E-01
		1221.41		26.98	-7.64E-02		4.23E-01
		1231.02		11.44	1.32E-01		1.05E+00
+	IR-192	308.46		29.68	-2.69E-02	1.33E-01	2.26E-01
		468.07		48.10	-5.07E-02		1.33E-01
+	HG-203	279.19		77.30	3.60E-02	1.14E-01	1.14E-01
+	BI-207	569.67		97.72	1.77E-02	6.69E-02	6.69E-02
		1063.62		74.90	-1.50E-02		1.06E-01
+	TL-208	583.14	*	30.22	1.24E+00	1.64E-01	3.67E-01
		860.37	*	4.48	1.52E+00		2.01E+00
		2614.66	*	35.85	8.45E-01		1.64E-01
+	BI-210M	262.00		45.00	4.46E-02	1.28E-01	1.28E-01
		300.00		23.00	4.98E-02		2.68E-01
+	PB-210	46.50	*	4.25	2.65E+00	3.63E+00	3.63E+00
+	PB-211	404.84		2.90	-3.38E-01	1.96E+00	1.96E+00
		831.96		2.90	-2.24E-01		2.65E+00
+	BI-212	727.17		11.80	3.71E-01	7.47E-01	7.47E-01
		1620.62		2.75	-4.46E-01		2.43E+00
+	PB-212	238.63	*	44.60	1.25E+00	2.64E-01	2.64E-01
		300.09	*	3.41	2.05E+00		1.78E+00
+	BI-214	609.31	*	46.30	1.20E+00	2.23E-01	2.23E-01
		1120.29	*	15.10	1.87E+00		8.18E-01
		1764.49	*	15.80	1.60E+00		5.67E-01
		2204.22	*	4.98	1.68E+00		8.79E-01
+	PB-214	295.21	*	19.19	1.33E+00	2.21E-01	3.73E-01
		351.92	*	37.19	1.23E+00		2.21E-01
+	RN-219	401.80		6.50	5.09E-01	9.36E-01	9.36E-01
+	RA-223	323.87		3.88	-1.11E+00	1.43E+00	1.43E+00
+	RA-224	240.98		3.95	9.92E+00	3.00E+00	3.00E+00
+	RA-225	40.00		31.00	1.21E-01	1.76E+00	1.76E+00
+	RA-226	186.21	*	3.28	3.30E+00	2.94E+00	2.94E+00
+	TH-227	50.10		8.40	-5.93E-01	7.14E-01	7.60E-01
		236.00		11.50	-4.97E+00		7.14E-01
		256.20		6.30	-3.87E-01		8.29E-01
+	AC-228	338.32	*	11.40	9.71E-01	4.23E-01	8.67E-01
		911.07	*	27.70	1.10E+00		4.23E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	AC-228	969.11	*	16.60	1.33E+00	4.23E-01	1.23E+00
+	TH-230	48.44		16.90	-2.81E-01	4.48E-01	4.48E-01
		62.85		4.60	1.49E+00		1.28E+00
		67.67		0.37	-5.60E+00		1.34E+01
+	PA-231	283.67		1.60	7.06E-01	2.53E+00	3.39E+00
		302.67		2.30	-1.53E+00		2.53E+00
+	TH-231	25.64		14.70	-3.73E+00	7.48E-01	1.43E+01
		84.21		6.40	5.44E-01		7.48E-01
+	PA-233	311.98		38.60	1.09E-01	2.92E-01	2.92E-01
+	PA-234	131.20		20.40	2.23E-01	2.58E-01	2.58E-01
		733.99		8.80	-9.20E-02		8.09E-01
		946.00		12.00	-1.18E-01		5.85E-01
+	PA-234M	1001.03		0.92	2.10E+00	8.48E+00	8.48E+00
+	TH-234	63.29		3.80	1.79E+00	1.54E+00	1.54E+00
+	U-235	143.76		10.50	1.73E-01	4.95E-01	4.95E-01
		163.35		4.70	2.85E-02		1.12E+00
		205.31		4.70	3.11E-01		1.16E+00
+	NP-237	86.50	*	12.60	2.24E-01	4.32E-01	4.32E-01
+	NP-239	106.10	*	22.70	2.92E+02	4.87E+02	4.87E+02
		228.18		10.70	-2.71E+02		1.18E+03
		277.60	*	14.10	8.04E+02		1.21E+03
+	AM-241	59.54		35.90	2.56E-02	1.51E-01	1.51E-01
+	AM-243	74.67		66.00	-2.23E-01	1.00E-01	1.00E-01
+	CM-243	209.75	*	3.29	1.28E+00	5.12E-01	2.50E+00
		228.14		10.60	-1.18E-01		5.12E-01
		277.60	*	14.00	3.49E-01		5.23E-01

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	7.29E-01	7.29E-01	-2.34E-01	3.40E-01
	NA-22	1274.54		99.94	8.23E-02	8.23E-02	-4.28E-02	3.72E-02
	NA-24	1368.53		99.99	2.90E+11	1.62E+11	6.29E+10	1.25E+11
		2754.09		99.86	1.62E+11		3.50E+10	5.75E+10
	AL-26	1808.65		99.76	5.76E-02	5.76E-02	7.26E-03	2.39E-02
+	K-40	1460.81	*	10.67	7.60E-01	7.60E-01	1.95E+01	3.39E-01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	5.25E-02	5.25E-02	-2.19E-02	2.54E-02
		78.34		96.00	7.58E-02		2.59E-01	3.71E-02
	SC-46	889.25		99.98	9.74E-02	9.74E-02	2.29E-02	4.50E-02
		1120.51		99.99	1.86E-01		3.16E-01	8.87E-02
	V-48	983.52		99.98	2.36E-01	2.36E-01	1.31E-02	1.08E-01
		1312.10		97.50	2.78E-01		8.46E-02	1.26E-01
	CR-51	320.08		9.83	9.87E-01	9.87E-01	-3.66E-01	4.66E-01
	MN-54	834.83		99.97	8.24E-02	8.24E-02	1.22E-02	3.82E-02
	CO-56	846.75		99.96	8.68E-02	8.68E-02	-1.80E-02	3.98E-02
		1037.75		14.03	7.69E-01		1.42E-01	3.54E-01
		1238.25		67.00	2.34E-01		9.66E-02	1.10E-01
		1771.40		15.51	5.49E-01		-5.47E-02	2.35E-01
		2598.48		16.90	2.57E-01		5.54E-02	9.11E-02
	CO-57	122.06		85.51	6.14E-02	6.14E-02	2.75E-02	2.98E-02
		136.48		10.60	5.02E-01		-4.43E-02	2.43E-01
	CO-58	810.76		99.40	9.46E-02	9.46E-02	2.39E-02	4.37E-02
	FE-59	1099.22		56.50	2.11E-01	2.11E-01	1.80E-02	9.63E-02
		1291.56		43.20	3.44E-01		2.61E-02	1.58E-01
	CO-60	1173.22		100.00	9.62E-02	8.02E-02	2.39E-02	4.44E-02
		1332.49		100.00	8.02E-02		2.19E-02	3.60E-02
	ZN-65	1115.52		50.75	1.77E-01	1.77E-01	8.34E-03	8.08E-02
+	GA-67	93.31	*	35.70	5.56E+01	5.56E+01	7.97E+01	2.73E+01
		208.95		2.24	7.11E+02		1.98E+02	3.43E+02
		300.22	*	16.00	1.02E+02		1.18E+02	4.89E+01
	SE-75	121.11		16.70	3.39E-01	9.72E-02	9.97E-02	1.64E-01
		136.00		59.20	9.72E-02		6.95E-03	4.70E-02
		264.65		59.80	1.06E-01		3.03E-02	5.08E-02
		279.53		25.20	2.68E-01		2.29E-02	1.28E-01
		400.65		11.40	6.34E-01		2.80E-01	3.01E-01
	RB-82	776.52		13.00	1.20E+00	1.20E+00	-5.31E-02	5.58E-01
	RB-83	520.41		46.00	1.57E-01	1.57E-01	6.58E-02	7.30E-02
		529.64		30.30	2.23E-01		1.59E-02	1.03E-01
		552.65		16.40	4.18E-01		-1.88E-01	1.94E-01
	KR-85	513.99		0.43	1.54E+01	1.54E+01	-1.50E+01	7.24E+00
	SR-85	513.99		99.27	8.87E-02	8.87E-02	-8.63E-02	4.18E-02
	Y-88	898.02		93.40	9.17E-02	7.26E-02	1.49E-02	4.21E-02
		1836.01		99.38	7.26E-02		6.93E-03	3.04E-02
	NB-93M	16.57		9.43	5.98E+03	5.98E+03	-1.38E+04	2.91E+03
	NB-94	702.63		100.00	7.41E-02	7.34E-02	8.23E-04	3.46E-02
		871.10		100.00	7.34E-02		-1.88E-02	3.38E-02
	NB-95	765.79		99.81	1.49E-01	1.49E-01	1.17E-01	6.99E-02
	NB-95M	235.69		25.00	5.16E+01	5.16E+01	-3.59E+02	2.51E+01
	ZR-95	724.18		43.70	2.56E-01	1.73E-01	6.03E-02	1.21E-01
		756.72		55.30	1.73E-01		-5.74E-02	8.01E-02

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Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
MO-99	181.06		6.20	6.48E+02	4.30E+02	1.54E+02	3.12E+02
	739.58		12.80	4.30E+02		-1.35E+02	2.00E+02
	778.00		4.50	1.25E+03		1.93E+02	5.82E+02
RU-103	497.08		89.00	1.03E-01	1.03E-01	-3.34E-02	4.81E-02
RU-106	621.84		9.80	7.33E-01	7.33E-01	-1.08E-01	3.43E-01
AG-108M	433.93		89.90	5.69E-02	5.69E-02	8.20E-03	2.66E-02
	614.37		90.40	8.48E-02		2.16E-02	4.00E-02
	722.95		90.50	8.55E-02		3.16E-02	4.00E-02
CD-109	88.03	*	3.72	1.52E+00	1.52E+00	7.87E-01	7.42E-01
AG-110M	657.75		93.14	9.32E-02	9.32E-02	6.54E-03	4.39E-02
	677.61		10.53	6.73E-01		-2.14E-01	3.12E-01
	706.67		16.46	4.80E-01		2.48E-02	2.24E-01
	763.93		21.98	3.63E-01		-3.62E-01	1.69E-01
	884.67		71.63	1.17E-01		8.43E-03	5.41E-02
	1384.27		23.94	2.88E-01		-2.22E-02	1.25E-01
CD-113M	263.70		0.02	2.39E+02	2.39E+02	-1.11E+01	1.14E+02
SN-113	255.12		1.93	3.23E+00	1.01E-01	1.07E+00	1.54E+00
	391.69		64.90	1.01E-01		-8.36E-03	4.77E-02
TE123M	159.00		84.10	7.39E-02	7.39E-02	8.63E-04	3.57E-02
SB-124	602.71		97.87	9.12E-02	9.12E-02	-2.17E-01	4.26E-02
	645.85		7.26	1.16E+00		2.75E-01	5.39E-01
	722.78		11.10	9.43E-01		3.49E-01	4.41E-01
	1691.02		49.00	1.46E-01		-1.14E-01	5.97E-02
I-125	35.49		6.49	5.53E+00	5.53E+00	-1.31E-01	2.68E+00
SB-125	176.33		6.89	7.75E-01	1.89E-01	-2.63E-01	3.74E-01
	427.89		29.33	1.89E-01		3.55E-02	8.87E-02
	463.38		10.35	6.59E-01		4.91E-01	3.12E-01
	600.56		17.80	3.96E-01		1.52E-01	1.86E-01
	635.90		11.32	6.17E-01		1.80E-01	2.88E-01
SB-126	414.70		83.30	2.90E-01	2.90E-01	-5.82E-02	1.37E-01
	666.33		99.60	3.16E-01		-1.60E-01	1.48E-01
	695.00		99.60	3.28E-01		2.66E-02	1.54E-01
	720.50		53.80	6.13E-01		1.55E-01	2.86E-01
SN-126	87.57	*	37.00	1.47E-01	1.47E-01	7.61E-02	7.17E-02
SB-127	473.00		25.00	2.78E+01	2.22E+01	1.81E+01	1.31E+01
	685.20		35.70	2.22E+01		-5.31E+00	1.03E+01
	783.80		14.70	6.17E+01		3.27E+01	2.88E+01
I-129	29.78		57.00	1.23E+00	1.23E+00	-1.40E-01	5.95E-01
	33.60		13.20	2.61E+00		-9.64E-01	1.26E+00
	39.58		7.52	2.20E+00		1.51E-01	1.07E+00
I-131	284.30		6.05	8.70E+00	6.12E-01	1.81E+00	4.15E+00
	364.48		81.20	6.12E-01		-3.41E-01	2.88E-01
	636.97		7.26	9.29E+00		4.81E+00	4.34E+00
	722.89		1.80	4.16E+01		1.54E+01	1.95E+01
TE-132	49.72		13.10	1.35E+02	1.67E+01	-1.05E+02	6.46E+01
	228.16		88.00	1.67E+01		-3.84E+00	8.00E+00
BA-133	81.00		33.00	1.34E-01	8.46E-02	6.20E-02	6.50E-02
	302.84		17.80	3.28E-01		-1.98E-01	1.56E-01
	356.01		60.00	8.46E-02		2.37E-03	3.98E-02
I-133	529.87		86.30	8.99E+07	8.99E+07	-1.37E+07	4.17E+07
XE-133	81.00		38.00	3.78E+00	3.78E+00	1.74E+00	1.83E+00
CS-134	563.23		8.38	7.50E-01	8.58E-02	1.50E-01	3.50E-01
	569.32		15.43	4.33E-01		1.15E-01	2.03E-01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	CS-134	604.70		97.60	8.58E-02	8.58E-02	-6.84E-01	4.06E-02
		795.84		85.40	9.88E-02		4.67E-02	4.62E-02
		801.93		8.73	9.04E-01		-2.83E-01	4.20E-01
	CS-135	268.24		16.00	3.79E-01	3.79E-01	4.60E-03	1.82E-01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.83E+00	2.51E-01	-3.01E-01	1.37E+00
		163.89		4.61	4.58E+00		2.52E+00	2.21E+00
		176.55		13.56	1.52E+00		-7.80E-02	7.35E-01
		273.65		12.66	1.79E+00		-1.54E+00	8.57E-01
		340.57		48.50	5.40E-01		-4.68E-01	2.58E-01
		818.50		99.70	2.51E-01		2.73E-03	1.14E-01
		1048.07		79.60	4.34E-01		1.40E-02	2.00E-01
		1235.34		19.70	2.35E+00		-3.85E-02	1.10E+00
+	CS-137	661.65	*	85.12	1.18E-01	1.18E-01	8.88E-02	5.63E-02
	LA-138	788.74		34.00	2.27E-01	1.10E-01	7.64E-02	1.06E-01
		1435.80		66.00	1.10E-01		-4.80E-03	4.87E-02
	CE-139	165.85		80.35	7.35E-02	7.35E-02	-2.07E-02	3.55E-02
	BA-140	162.64		6.70	3.27E+00	9.59E-01	8.31E-02	1.58E+00
		304.84		4.50	5.04E+00		4.55E-01	2.40E+00
		423.70		3.20	7.70E+00		3.50E+00	3.63E+00
		437.55		2.00	1.10E+01		2.72E+00	5.12E+00
		537.32		25.00	9.59E-01		-1.23E-01	4.46E-01
	LA-140	328.77		20.50	1.37E+00	3.98E-01	1.12E+00	6.56E-01
		487.03		45.50	5.12E-01		-1.12E-02	2.39E-01
		815.85		23.50	1.03E+00		-2.16E-01	4.67E-01
		1596.49		95.49	3.98E-01		2.25E-01	1.79E-01
	CE-141	145.44		48.40	1.92E-01	1.92E-01	1.23E-01	9.31E-02
	CE-143	57.36		11.80	2.49E+05	1.10E+05	-7.72E+04	1.20E+05
		293.26		42.00	1.10E+05		-4.42E+04	5.34E+04
		664.55		5.20	9.99E+05		1.19E+06	4.73E+05
	CE-144	133.54		10.80	4.93E-01	4.93E-01	6.29E-03	2.39E-01
	PM-144	476.78		42.00	1.35E-01	7.64E-02	-4.33E-02	6.29E-02
		618.01		98.60	7.64E-02		1.02E-02	3.58E-02
		696.49		99.49	7.99E-02		3.93E-02	3.74E-02
	PM-145	36.85		21.70	1.04E+00	5.32E-01	3.00E-01	5.02E-01
		37.36		39.70	5.32E-01		1.54E-01	2.58E-01
		42.30		15.10	8.62E-01		-1.33E-01	4.17E-01
		72.40		2.31	2.06E+00		-2.14E+00	9.95E-01
	PM-146	453.90		39.94	1.43E-01	1.43E-01	-3.38E-02	6.73E-02
		735.90		14.01	5.30E-01		-1.32E-01	2.47E-01
		747.13		13.10	5.95E-01		1.33E-01	2.78E-01
	ND-147	91.11		28.90	1.18E+00	1.18E+00	-3.93E-01	5.76E-01
		531.02		13.10	2.03E+00		-1.73E+00	9.37E-01
	PM-149	285.90		3.10	6.86E+03	6.86E+03	-2.60E+02	3.27E+03
	EU-152	121.78		20.50	2.40E-01	2.40E-01	1.08E-01	1.16E-01
		244.69		5.40	1.09E+00		-2.02E+00	5.22E-01
		344.27		19.13	2.95E-01		4.52E-02	1.40E-01
		778.89		9.20	7.88E-01		-2.41E-01	3.65E-01
		964.01		10.40	1.04E+00		-2.40E+00	4.87E-01
		1085.78		7.22	1.09E+00		-6.32E-01	4.97E-01
		1112.02		9.60	7.93E-01		-1.86E-01	3.60E-01

00602

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	1407.95		14.94	5.05E-01	2.40E-01	-9.16E-02	2.24E-01
	GD-153	97.43		31.30	1.61E-01	1.61E-01	9.57E-02	7.80E-02
		103.18		22.20	2.30E-01		2.45E-03	1.11E-01
	EU-154	123.07		40.50	1.17E-01	1.17E-01	-1.32E-01	5.65E-02
		723.30		19.70	3.95E-01		1.46E-01	1.85E-01
		873.19		11.50	6.87E-01		2.04E-01	3.18E-01
		996.32		10.30	7.67E-01		-3.45E-02	3.52E-01
		1004.76		17.90	4.30E-01		6.29E-02	1.96E-01
		1274.45		35.50	2.29E-01		-1.19E-01	1.03E-01
+	EU-155	86.50	*	30.90	1.78E-01	1.78E-01	9.21E-02	8.67E-02
		105.30	*	20.70	2.32E-01		1.39E-01	1.12E-01
	EU-156	811.77		10.40	2.20E+00	2.20E+00	5.62E-01	1.01E+00
		1153.47		7.20	4.59E+00		2.14E-01	2.13E+00
		1230.71		8.90	3.59E+00		-1.19E+00	1.65E+00
	HO-166M	184.41		72.60	8.92E-02	8.92E-02	2.65E-02	4.33E-02
		280.45		29.60	1.96E-01		1.68E-02	9.39E-02
		410.94		11.10	5.97E-01		3.55E-01	2.84E-01
		711.69		54.10	1.40E-01		2.36E-02	6.56E-02
	TM-171	66.72		0.14	3.79E+01	3.79E+01	1.64E+01	1.84E+01
	HF-172	81.75		4.52	9.80E-01	4.39E-01	-7.91E-01	4.73E-01
		125.81		11.30	4.39E-01		1.33E-01	2.12E-01
	LU-172	181.53		20.60	3.94E+00	2.32E+00	-2.63E+00	1.90E+00
		810.06		16.63	6.66E+00		1.68E+00	3.08E+00
		912.12		15.25	1.49E+01		3.12E+01	7.15E+00
		1093.66		62.50	2.32E+00		8.29E-01	1.08E+00
	LU-173	100.72		5.24	9.41E-01	3.13E-01	5.06E-01	4.56E-01
		272.11		21.20	3.13E-01		5.57E-02	1.50E-01
	HF-175	343.40		84.00	8.95E-02	8.95E-02	-2.19E-03	4.25E-02
	LU-176	88.34		13.30	4.87E-01	5.54E-02	2.40E-01	2.38E-01
		201.83		86.00	6.21E-02		-1.20E-02	2.99E-02
		306.78		94.00	5.54E-02		-6.35E-03	2.63E-02
	TA-182	67.75		41.20	1.41E-01	1.41E-01	-5.89E-02	6.84E-02
		1121.30		34.90	5.11E-01		9.18E-01	2.43E-01
		1189.05		16.23	7.29E-01		2.49E-01	3.37E-01
		1221.41		26.98	4.23E-01		-7.64E-02	1.95E-01
		1231.02		11.44	1.05E+00		1.32E-01	4.87E-01
	IR-192	308.46		29.68	2.26E-01	1.33E-01	-2.69E-02	1.07E-01
		468.07		48.10	1.33E-01		-5.07E-02	6.17E-02
	HG-203	279.19		77.30	1.14E-01	1.14E-01	3.60E-02	5.45E-02
	BI-207	569.67		97.72	6.69E-02	6.69E-02	1.77E-02	3.13E-02
		1063.62		74.90	1.06E-01		-1.50E-02	4.83E-02
+	TL-208	583.14	*	30.22	3.67E-01	1.64E-01	1.24E+00	1.77E-01
		860.37	*	4.48	2.01E+00		1.52E+00	9.42E-01
		2614.66	*	35.85	1.64E-01		8.45E-01	6.78E-02
	BI-210M	262.00		45.00	1.28E-01	1.28E-01	4.46E-02	6.13E-02
		300.00		23.00	2.68E-01		4.98E-02	1.28E-01
+	PB-210	46.50	*	4.25	3.63E+00	3.63E+00	2.65E+00	1.78E+00
	PB-211	404.84		2.90	1.96E+00	1.96E+00	-3.38E-01	9.26E-01
		831.96		2.90	2.65E+00		-2.24E-01	1.23E+00
	BI-212	727.17		11.80	7.47E-01	7.47E-01	3.71E-01	3.52E-01
		1620.62		2.75	2.43E+00		-4.46E-01	1.04E+00
+	PB-212	238.63	*	44.60	2.64E-01	2.64E-01	1.25E+00	1.29E-01
		300.09	*	3.41	1.78E+00		2.05E+00	8.49E-01

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	BI-214	609.31	*	46.30	2.23E-01	2.23E-01	1.20E+00	1.07E-01
		1120.29	*	15.10	8.18E-01		1.87E+00	3.85E-01
		1764.49	*	15.80	5.67E-01		1.60E+00	2.53E-01
		2204.22	*	4.98	8.79E-01		1.68E+00	3.36E-01
+	PB-214	295.21	*	19.19	3.73E-01	2.21E-01	1.33E+00	1.80E-01
		351.92	*	37.19	2.21E-01		1.23E+00	1.06E-01
	RN-219	401.80		6.50	9.36E-01	9.36E-01	5.09E-01	4.43E-01
	RA-223	323.87		3.88	1.43E+00	1.43E+00	-1.11E+00	6.78E-01
	RA-224	240.98		3.95	3.00E+00	3.00E+00	9.92E+00	1.47E+00
	RA-225	40.00		31.00	1.76E+00	1.76E+00	1.21E-01	8.52E-01
+	RA-226	186.21	*	3.28	2.94E+00	2.94E+00	3.30E+00	1.44E+00
	TH-227	50.10		8.40	7.60E-01	7.14E-01	-5.93E-01	3.65E-01
		236.00		11.50	7.14E-01		-4.97E+00	3.47E-01
		256.20		6.30	8.29E-01		-3.87E-01	3.95E-01
+	AC-228	338.32	*	11.40	8.67E-01	4.23E-01	9.71E-01	4.21E-01
		911.07	*	27.70	4.23E-01		1.10E+00	2.00E-01
		969.11	*	16.60	1.23E+00		1.33E+00	5.94E-01
	TH-230	48.44		16.90	4.48E-01	4.48E-01	-2.81E-01	2.16E-01
		62.85		4.60	1.28E+00		1.49E+00	6.21E-01
		67.67		0.37	1.34E+01		-5.60E+00	6.50E+00
	PA-231	283.67		1.60	3.39E+00	2.53E+00	7.06E-01	1.62E+00
		302.67		2.30	2.53E+00		-1.53E+00	1.20E+00
	TH-231	25.64		14.70	1.43E+01	7.48E-01	-3.73E+00	6.92E+00
		84.21		6.40	7.48E-01		5.44E-01	3.63E-01
	PA-233	311.98		38.60	2.92E-01	2.92E-01	1.09E-01	1.39E-01
	PA-234	131.20		20.40	2.58E-01	2.58E-01	2.23E-01	1.25E-01
		733.99		8.80	8.09E-01		-9.20E-02	3.76E-01
		946.00		12.00	5.85E-01		-1.18E-01	2.67E-01
	PA-234M	1001.03		0.92	8.48E+00	8.48E+00	2.10E+00	3.89E+00
	TH-234	63.29		3.80	1.54E+00	1.54E+00	1.79E+00	7.46E-01
	U-235	143.76		10.50	4.95E-01	4.95E-01	1.73E-01	2.40E-01
		163.35		4.70	1.12E+00		2.85E-02	5.42E-01
		205.31		4.70	1.16E+00		3.11E-01	5.56E-01
	NP-237	86.50	*	12.60	4.32E-01	4.32E-01	2.24E-01	2.11E-01
	NP-239	106.10	*	22.70	4.87E+02	4.87E+02	2.92E+02	2.36E+02
		228.18		10.70	1.18E+03		-2.71E+02	5.65E+02
		277.60	*	14.10	1.21E+03		8.04E+02	5.82E+02
	AM-241	59.54		35.90	1.51E-01	1.51E-01	2.56E-02	7.29E-02
	AM-243	74.67		66.00	1.00E-01	1.00E-01	-2.23E-01	4.89E-02
+	CM-243	209.75	*	3.29	2.50E+00	5.12E-01	1.28E+00	1.22E+00
		228.14		10.60	5.12E-01		-1.18E-01	2.45E-01
		277.60	*	14.00	5.23E-01		3.49E-01	2.53E-01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

Analysis Report for 1508002-10

FEEBRIS1D-20 089-090

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	Comment	User

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-20 089-090

Elapsed Live time: 3600
Elapsed Real Time: 3601

Channel								
1:	0	0	0	0	0	0	1	117
9:	436	1039	988	454	491	1870	418	159
17:	132	113	121	89	113	92	107	86
25:	91	79	88	96	97	111	81	101
33:	100	103	101	117	99	108	99	120
41:	105	105	115	109	106	113	187	100
49:	72	70	59	78	81	76	66	62
57:	69	78	83	97	93	91	134	147
65:	85	118	99	106	100	111	107	96
73:	103	141	318	170	403	312	84	99
81:	97	98	86	133	135	95	174	165
89:	90	143	112	121	199	121	88	57
97:	66	58	87	72	58	71	61	71
105:	81	80	62	51	70	60	56	69
113:	61	68	70	58	60	56	59	88
121:	61	55	64	63	58	73	63	54
129:	91	68	67	74	58	57	65	61
137:	62	57	60	66	59	47	75	70
145:	65	59	56	58	62	56	60	51
153:	54	74	64	67	66	59	60	53
161:	58	54	57	47	63	57	39	57
169:	57	51	49	43	63	59	62	51
177:	40	38	51	49	42	50	52	55
185:	66	142	94	51	53	42	46	52
193:	64	49	42	42	41	51	48	51
201:	45	31	54	36	45	42	42	35
209:	58	73	46	50	39	40	37	44
217:	45	43	39	49	42	38	42	52
225:	43	35	44	27	36	46	39	44
233:	37	41	39	53	51	241	493	100
241:	82	133	64	39	30	29	38	31
249:	32	31	27	27	34	25	19	40
257:	37	27	36	32	40	29	35	40
265:	27	26	27	28	37	72	49	32
273:	27	28	40	33	38	55	23	30
281:	26	29	23	30	30	27	25	31
289:	33	26	33	23	23	52	162	123
297:	36	16	22	57	47	25	27	24
305:	23	26	26	23	16	24	25	25
313:	36	26	28	28	21	19	22	21
321:	19	18	25	28	26	23	42	42
329:	25	32	36	26	33	23	28	28
337:	31	86	59	24	28	27	20	23
345:	23	20	15	30	31	17	91	291
353:	91	18	19	13	16	20	14	15
361:	33	10	15	18	23	20	13	18

369:	16	18	19	24	20	14	24	20

Sample Title: FEEBRIS1D-20 089-090

Channel								
377:	21	16	17	21	20	23	15	16
385:	14	16	24	21	23	23	14	17
393:	19	20	17	18	12	19	22	20
401:	24	23	23	17	12	19	21	15
409:	24	33	28	20	19	18	19	14
417:	14	16	15	11	21	19	13	21
425:	17	23	13	13	18	10	13	9
433:	10	16	12	19	17	8	13	10
441:	12	13	13	7	14	13	16	16
449:	18	30	15	19	15	17	11	15
457:	12	17	14	17	13	26	35	20
465:	12	10	15	12	10	9	19	15
473:	19	9	21	14	9	10	10	15
481:	17	11	8	12	15	20	10	11
489:	11	13	18	16	21	17	20	12
497:	9	14	14	15	15	10	15	18
505:	14	10	16	20	28	54	93	36
513:	23	16	9	5	14	12	14	12
521:	16	12	13	7	11	11	10	20
529:	12	8	6	11	10	17	14	12
537:	8	13	14	5	21	15	4	11
545:	6	16	14	16	11	16	3	15
553:	12	8	12	17	5	8	7	10
561:	13	9	14	16	13	13	14	20
569:	17	13	9	13	11	10	6	11
577:	12	10	10	13	20	56	143	75
585:	15	12	11	15	12	8	5	15
593:	14	14	8	14	7	13	11	13
601:	10	12	10	6	7	10	15	47
609:	190	132	18	13	10	10	14	12
617:	14	13	5	10	10	14	7	11
625:	13	8	9	8	8	8	5	11
633:	8	10	10	8	14	9	9	10
641:	6	4	10	8	7	5	8	9
649:	7	6	9	13	11	12	15	8
657:	5	14	11	7	31	21	18	7
665:	12	7	14	8	4	5	7	9
673:	11	9	8	8	8	9	7	7
681:	4	15	5	9	9	5	10	8
689:	13	13	8	11	13	5	8	13
697:	7	14	12	6	5	12	17	10
705:	6	7	11	6	9	11	8	11
713:	11	14	12	6	9	7	6	10
721:	10	12	14	8	7	10	24	18
729:	11	15	7	7	7	13	9	5
737:	10	10	8	10	11	5	8	11
745:	9	12	8	10	7	10	10	9
753:	3	10	9	11	10	8	5	15
761:	5	5	8	11	6	11	13	26
769:	10	8	10	17	4	10	8	12
777:	8	9	10	3	7	5	10	9
785:	9	15	10	6	6	9	6	5
793:	9	18	8	12	5	11	6	4

801:	12	10	12	5	10	14	10	9

Sample Title: FEEBRIS1D-20 089-090

Channel								
809:	4	6	4	12	6	4	3	4
817:	7	4	3	5	10	10	11	7
825:	5	4	6	9	6	5	10	8
833:	10	7	9	5	13	4	4	10
841:	13	5	5	6	8	6	7	4
849:	6	6	5	5	10	7	3	3
857:	7	4	5	17	19	9	5	6
865:	5	5	8	8	3	6	6	7
873:	6	10	7	11	8	5	3	7
881:	15	7	4	8	3	6	8	8
889:	8	9	6	6	5	8	1	5
897:	6	9	10	5	6	4	10	11
905:	8	4	4	6	7	31	72	56
913:	11	7	7	8	9	9	6	2
921:	7	4	5	5	3	2	8	5
929:	6	6	7	6	6	10	14	5
937:	5	2	6	5	4	7	4	6
945:	2	3	10	5	6	6	7	3
953:	3	3	6	10	3	10	7	10
961:	5	17	9	23	14	9	10	36
969:	49	19	5	12	8	3	4	7
977:	6	7	2	4	6	5	5	8
985:	5	6	6	6	12	8	5	8
993:	8	5	6	5	5	6	7	4
1001:	8	7	2	7	2	7	6	5
1009:	4	2	7	3	7	6	3	2
1017:	8	3	10	6	6	5	7	5
1025:	8	5	7	5	8	7	9	5
1033:	6	7	8	6	11	3	7	5
1041:	9	3	2	7	5	6	6	5
1049:	6	11	8	8	9	5	8	5
1057:	8	7	4	6	5	3	7	7
1065:	4	6	3	10	8	3	10	3
1073:	4	3	3	5	4	7	7	6
1081:	7	5	6	4	8	5	2	6
1089:	11	6	11	10	7	6	6	8
1097:	7	1	6	5	4	5	5	3
1105:	5	6	8	8	5	4	5	5
1113:	6	4	3	6	5	10	30	41
1121:	38	6	6	9	4	6	5	7
1129:	6	8	3	4	12	1	3	6
1137:	8	5	5	0	2	5	4	5
1145:	5	4	10	9	9	8	6	6
1153:	4	8	9	13	4	8	3	3
1161:	11	9	8	6	7	4	5	5
1169:	4	8	5	3	10	9	7	6
1177:	5	8	8	5	7	7	8	4
1185:	7	10	8	6	4	8	8	9
1193:	5	7	7	6	7	10	7	9
1201:	6	5	8	10	7	7	9	2
1209:	6	7	5	6	7	7	4	8
1217:	9	10	8	6	3	4	8	8
1225:	7	7	4	1	10	11	6	3

1233:	10	11	7	9	12	15	15	14

Sample Title: FEEBRIS1D-20 089-090

Channel								
1241:	6	9	5	6	5	10	6	5
1249:	8	6	2	1	8	8	5	3
1257:	2	5	7	5	8	11	3	3
1265:	5	5	6	6	8	5	6	3
1273:	4	3	4	7	2	8	4	7
1281:	7	4	5	4	7	9	5	8
1289:	2	7	6	5	8	8	7	3
1297:	5	5	6	3	7	5	4	6
1305:	4	4	2	4	7	5	3	4
1313:	6	3	4	1	6	4	3	3
1321:	1	2	4	8	1	4	3	4
1329:	3	3	5	3	3	5	4	3
1337:	1	0	2	4	5	1	2	3
1345:	4	5	3	4	2	4	3	8
1353:	2	1	4	1	2	4	3	2
1361:	2	1	3	1	2	1	4	1
1369:	1	4	0	2	1	7	4	7
1377:	9	5	4	2	2	2	1	2
1385:	5	2	1	6	1	2	1	2
1393:	3	4	2	5	3	1	2	2
1401:	4	9	2	1	1	2	3	8
1409:	4	2	3	0	2	2	2	1
1417:	3	2	2	1	2	5	1	1
1425:	2	1	1	2	1	1	2	0
1433:	2	1	2	3	7	4	3	2
1441:	1	1	3	2	4	2	2	1
1449:	2	3	4	9	1	6	1	3
1457:	3	6	86	221	227	104	17	2
1465:	0	0	1	1	3	4	2	1
1473:	4	1	3	4	0	2	3	2
1481:	0	1	1	1	0	3	1	0
1489:	4	1	0	0	4	0	3	3
1497:	2	3	1	3	2	1	2	0
1505:	1	1	0	2	3	3	6	1
1513:	2	4	1	2	1	3	1	3
1521:	0	2	2	3	2	2	1	4
1529:	2	1	1	3	1	2	2	0
1537:	1	0	1	4	1	2	2	0
1545:	2	3	2	1	2	1	0	0
1553:	1	1	2	3	2	2	1	1
1561:	0	3	0	1	1	2	1	2
1569:	2	1	2	2	1	0	2	5
1577:	2	2	1	2	2	4	0	1
1585:	2	4	6	8	0	2	2	6
1593:	4	2	5	3	3	2	2	0
1601:	1	1	1	0	3	3	2	2
1609:	2	4	0	0	1	2	1	2
1617:	2	1	3	3	0	2	0	0
1625:	2	2	1	2	3	1	6	2
1633:	4	0	1	2	1	2	2	1
1641:	1	1	3	2	4	3	2	2
1649:	0	0	2	0	0	4	1	1
1657:	1	0	1	2	1	4	1	1

1665:	3	1	0	0	0	0	5	0

Sample Title: FEEBRIS1D-20 089-090

Channel								
1673:	0	2	2	0	0	2	1	0
1681:	2	1	1	4	2	1	0	1
1689:	1	0	0	0	3	1	0	2
1697:	2	0	0	1	1	2	3	1
1705:	2	2	1	0	0	0	0	0
1713:	0	2	3	2	2	1	1	0
1721:	1	0	1	3	0	1	2	2
1729:	4	0	2	0	1	0	1	0
1737:	0	0	2	1	1	1	0	2
1745:	1	0	1	1	3	0	1	2
1753:	2	0	0	1	2	0	1	2
1761:	4	3	16	27	20	8	4	0
1769:	2	0	1	1	3	0	1	1
1777:	1	1	2	2	2	3	1	0
1785:	1	1	0	1	0	1	0	1
1793:	1	0	0	1	1	0	0	1
1801:	0	2	0	2	0	0	0	0
1809:	0	0	2	4	0	0	1	1
1817:	2	1	1	0	2	1	2	1
1825:	0	1	0	1	0	2	0	1
1833:	2	0	2	1	1	2	0	0
1841:	2	0	1	1	2	2	1	3
1849:	0	0	2	0	2	0	1	0
1857:	1	0	2	0	0	1	1	2
1865:	1	1	1	0	1	0	1	0
1873:	0	1	0	3	1	1	0	1
1881:	0	0	2	0	1	2	0	2
1889:	0	1	1	3	1	4	0	1
1897:	1	0	0	0	1	0	2	1
1905:	3	1	2	1	2	1	2	0
1913:	1	2	1	0	0	1	0	1
1921:	2	0	2	2	1	0	1	1
1929:	1	0	0	1	0	2	1	1
1937:	2	1	0	1	1	1	1	1
1945:	1	1	2	0	3	0	2	0
1953:	1	1	1	1	1	1	3	0
1961:	1	3	0	1	4	1	1	1
1969:	1	0	0	2	2	2	1	2
1977:	1	2	0	1	2	1	0	1
1985:	1	1	0	0	1	1	0	0
1993:	2	0	1	2	2	0	1	3
2001:	1	1	0	1	0	1	0	0
2009:	0	2	1	1	1	2	0	0
2017:	0	0	0	1	0	0	0	0
2025:	0	1	1	0	0	2	1	0
2033:	0	1	1	1	0	0	0	1
2041:	0	1	1	1	4	0	0	3
2049:	0	1	2	0	0	3	1	1
2057:	0	0	1	2	0	2	2	1
2065:	1	1	0	1	1	0	0	0
2073:	0	0	1	0	1	1	0	1
2081:	1	0	1	0	1	2	2	0
2089:	1	2	1	1	2	1	1	3

2097:	0	2	0	0	4	3	5	4

Sample Title: FEEBRIS1D-20 089-090

Channel								
2105:	1	2	1	1	0	1	1	0
2113:	0	0	0	1	3	3	1	5
2121:	0	1	0	0	1	0	2	1
2129:	0	3	1	0	0	0	2	1
2137:	1	0	0	1	0	1	1	0
2145:	1	2	1	1	0	0	0	1
2153:	1	1	1	0	1	3	0	0
2161:	1	0	0	1	0	1	1	0
2169:	1	0	2	0	2	1	2	1
2177:	0	0	0	0	2	0	1	1
2185:	1	2	0	2	1	2	0	1
2193:	1	2	1	1	2	1	0	1
2201:	0	1	9	3	5	3	2	0
2209:	0	2	0	0	1	0	1	1
2217:	1	0	1	1	1	2	1	0
2225:	1	1	0	0	0	2	0	1
2233:	1	1	2	0	0	1	1	0
2241:	1	0	1	1	2	1	0	0
2249:	0	1	1	0	2	1	1	1
2257:	1	1	0	0	1	0	2	1
2265:	0	1	1	1	0	2	0	0
2273:	0	0	0	1	0	3	1	0
2281:	0	2	2	0	1	1	0	1
2289:	0	3	2	0	2	1	1	0
2297:	2	4	0	0	1	2	1	1
2305:	0	0	0	0	1	0	2	1
2313:	2	2	1	3	1	0	1	0
2321:	1	1	1	0	1	2	3	1
2329:	1	5	1	2	2	1	0	0
2337:	2	0	0	0	1	1	1	1
2345:	1	3	1	0	1	0	0	1
2353:	0	0	0	2	0	1	0	1
2361:	0	0	0	0	1	1	1	0
2369:	1	1	0	3	0	1	1	2
2377:	0	0	0	2	1	1	1	1
2385:	1	0	1	1	0	1	0	3
2393:	0	2	1	0	0	1	1	0
2401:	2	0	1	0	0	1	0	0
2409:	0	2	1	2	1	1	0	0
2417:	0	0	0	0	2	1	0	1
2425:	0	1	1	0	0	2	1	1
2433:	0	0	1	0	1	0	0	1
2441:	0	1	0	0	0	3	3	0
2449:	3	0	1	1	0	0	0	0
2457:	1	0	1	1	2	1	0	1
2465:	0	0	1	3	1	1	0	1
2473:	0	0	2	2	1	1	1	1
2481:	0	1	1	1	0	1	1	1
2489:	0	1	0	1	1	0	1	0
2497:	1	0	0	0	1	0	1	0
2505:	0	0	0	0	0	0	1	0
2513:	1	1	0	0	1	0	0	2
2521:	0	0	1	0	0	0	0	0

2529:	0	0	0	0	1	0	0	1

Sample Title: FEEBRIS1D-20 089-090

Channel								
2537:	0	0	0	0	1	1	0	0
2545:	0	2	1	0	0	0	0	1
2553:	0	1	0	0	0	0	0	1
2561:	0	1	0	0	0	0	0	0
2569:	0	1	0	0	1	0	0	1
2577:	1	1	0	0	2	0	0	0
2585:	0	0	1	0	0	0	0	0
2593:	0	1	0	0	0	0	1	0
2601:	0	0	0	0	0	1	2	0
2609:	0	0	2	9	19	39	18	5
2617:	0	1	0	1	0	2	1	0
2625:	0	0	0	0	0	0	2	0
2633:	0	0	0	0	0	1	0	0
2641:	0	0	0	0	1	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	1	0	1	0	0	0	0
2665:	0	0	0	2	0	0	0	0
2673:	0	0	1	0	0	0	1	1
2681:	0	1	0	1	2	0	0	0
2689:	0	0	0	0	0	0	1	0
2697:	0	0	0	1	2	0	1	1
2705:	0	1	0	0	0	1	0	0
2713:	0	1	1	0	0	0	0	1
2721:	0	0	0	0	0	0	0	0
2729:	2	0	0	0	0	0	0	0
2737:	0	0	0	0	1	0	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	1	1	0	0	0	0	0
2761:	0	1	0	0	0	1	0	0
2769:	0	0	1	0	0	0	1	0
2777:	0	0	0	0	0	1	0	0
2785:	1	0	1	1	0	1	0	0
2793:	1	0	0	0	0	0	2	0
2801:	0	0	1	1	4	0	0	0
2809:	0	0	0	0	1	0	0	1
2817:	0	0	0	0	0	0	0	1
2825:	0	0	1	1	0	0	0	0
2833:	1	0	0	0	0	0	0	0
2841:	0	0	0	2	0	1	0	0
2849:	0	0	1	0	0	0	0	1
2857:	0	0	0	1	0	1	1	1
2865:	0	1	2	0	0	0	0	0
2873:	0	0	0	0	1	2	0	1
2881:	0	0	0	0	0	0	0	0
2889:	0	1	0	0	1	1	0	1
2897:	1	0	0	1	1	0	0	0
2905:	1	0	0	1	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	1	1	0	1
2929:	1	0	0	1	0	0	0	0
2937:	0	1	0	0	0	0	0	0
2945:	1	0	0	2	0	0	0	1
2953:	0	2	0	0	0	1	0	1

2961:	0	0	0	0	0	0	1	0

Sample Title: FEEBRIS1D-20 089-090

Channel								
2969:	0	1	0	0	0	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	1	0	0	0	0
2993:	0	0	0	0	0	0	1	0
3001:	0	1	0	0	2	0	0	1
3009:	1	0	0	0	0	0	0	0
3017:	0	0	1	0	0	0	0	1
3025:	0	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	1	0
3041:	0	0	0	0	0	1	1	0
3049:	0	0	1	0	1	0	0	1
3057:	0	0	0	0	0	0	1	1
3065:	0	0	0	0	0	0	0	0
3073:	0	0	0	0	1	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	2	1	0	1	1
3097:	1	0	0	0	0	0	0	0
3105:	0	0	0	0	1	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	1	0	0	0	0
3129:	0	0	0	0	0	0	0	1
3137:	0	0	0	1	0	0	1	1
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	2	0	0	0
3161:	0	0	0	0	1	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	1	0	0
3185:	0	1	0	0	0	0	0	0
3193:	0	0	1	0	1	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	1	1	0	0
3225:	0	2	0	0	0	1	0	0
3233:	0	0	0	1	0	0	1	1
3241:	1	1	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	1
3257:	0	1	0	0	1	0	0	0
3265:	0	1	0	0	0	1	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	1	0	2	0
3289:	0	0	0	0	0	1	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	1
3313:	0	0	0	0	3	0	0	0
3321:	0	0	1	1	0	0	0	0
3329:	0	0	0	1	0	0	1	0
3337:	0	0	0	0	1	0	1	0
3345:	1	0	0	0	0	0	0	1
3353:	0	1	0	0	1	0	0	0
3361:	0	0	1	0	1	0	0	0
3369:	1	0	0	0	1	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	0	0

3393:	0	0	0	1	0	0	1	0

Sample Title: FEEBRIS1D-20 089-090

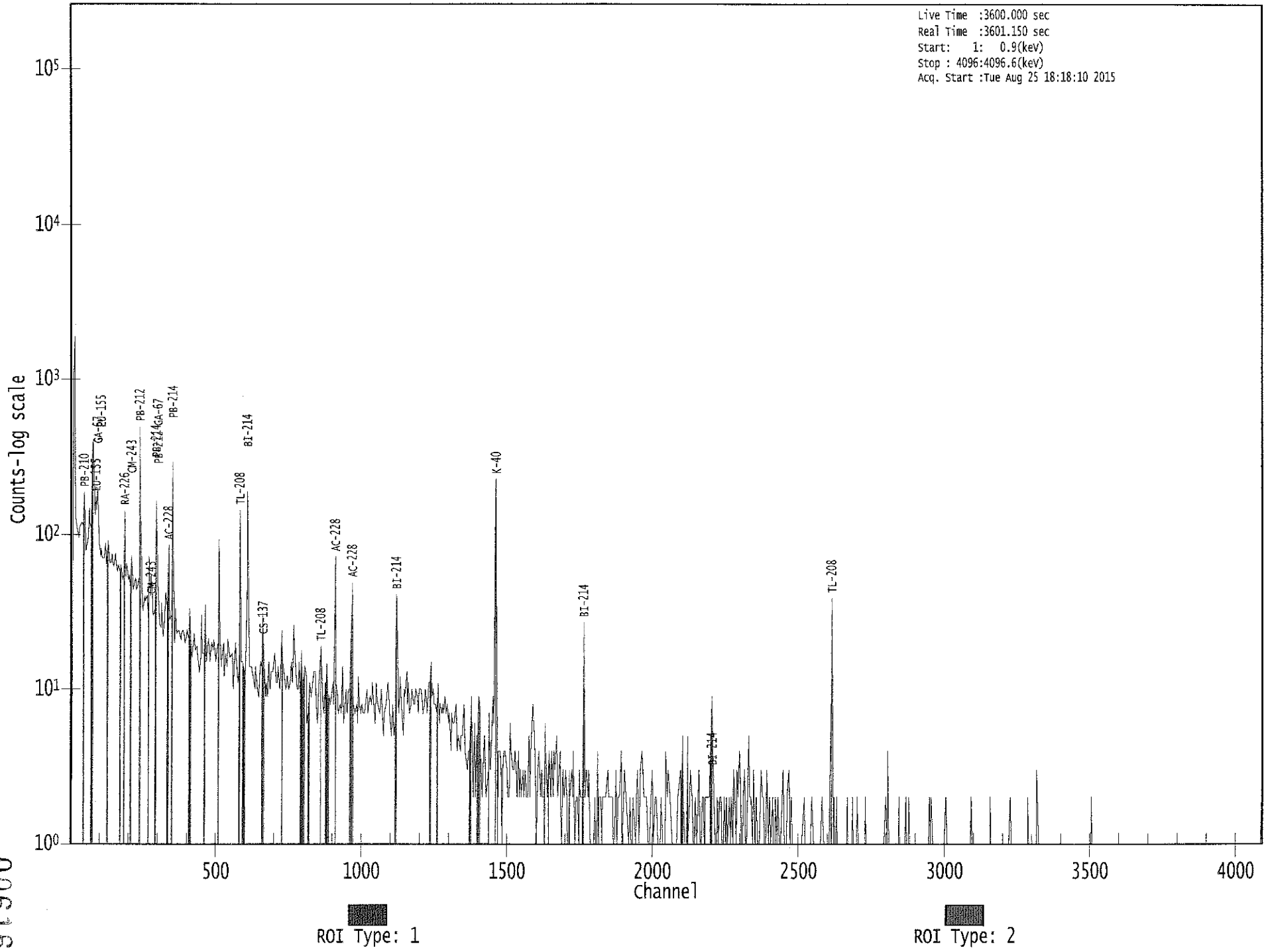
Channel								
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	1	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	1	0	0	0
3449:	0	0	0	0	0	0	1	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	1	0	0	0	1	1
3473:	0	0	1	0	0	0	0	0
3481:	0	0	0	1	1	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	1	1	1
3505:	0	2	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	1	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	1	0	0	1
3553:	0	0	1	0	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	1	0	0	0	0	0	0	0
3585:	1	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	1	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	1	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	1	0	0	0	1	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	1	0	1	0	0	0	0
3673:	0	0	1	0	0	0	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	1	0	1	0	0	0	1
3705:	0	0	0	0	0	0	0	0
3713:	0	0	1	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	1	0	0	0	0
3737:	0	0	0	0	1	0	0	0
3745:	0	1	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	1	0	0	0	0
3785:	0	0	1	0	1	0	0	1
3793:	0	1	0	0	1	0	0	0
3801:	1	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	1	0	0	0

3825:	0	1	0	0	0	0	0	0

Sample Title: FEEBRIS1D-20 089-090

Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	1	0	0	0	0	1
3849:	0	1	0	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	1	0	1	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	1
3913:	0	0	0	1	0	0	0	1
3921:	0	0	0	0	0	0	0	1
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	1	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	1	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	1	0	0	0	0	0	0	0
4009:	0	0	0	1	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	1	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	1	0	0	0	0	0
4057:	0	0	0	0	0	0	1	1
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	1	0
4089:	0	2	0	0	0	0	0	0

0000026423.CNF



91900

Apex-Gamma

Analysis Report for 1508002-11
FEEBRIS1D-7 084-085

GAMMA SPECTRUM ANALYSIS

Sample Identification	: 1508002-11
Sample Description	: FEEBRIS1D-7 084-085
Sample Type	: SOIL
Sample Size	: 5.029E+02 grams
Facility	: Countroom
Sample Taken On	: 7/24/2015 10:41:58AM
Acquisition Started	: 8/25/2015 3:26:12PM
Procedure	: GAS-1402 pCi
Operator	: Administrator
Detector Name	: GE2
Geometry	: GAS-1402
Live Time	: 900.0 seconds
Real Time	: 1055.7 seconds
Dead Time	: 14.75 %
Peak Locate Threshold	: 2.50
Peak Locate Range (in channels)	: 1 - 4096
Peak Area Range (in channels)	: 6 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 11/2/2014
Efficiency Calibration Used Done On	: 10/25/2014
Efficiency Calibration Description	:
Sample Number	: 26403

PEAK-TO-TOTAL CALIBRATION REPORT

Peak-to-Total Efficiency Calibration Equation

AG
8/26/15

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

PEAK LOCATE REPORT

Peak Locate Performed on : 8/25/2015 3:43:52PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096
Peak Search Sensitivity : 2.50

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
1	15.25	15.38	0.0000	0.00
2	32.06	32.18	0.0000	0.00
3	36.48	36.59	0.0000	0.00
4	46.50	46.61	0.0000	0.00
5	67.64	67.73	0.0000	0.00
6	76.30	76.38	0.0000	0.00
7	80.89	80.97	0.0000	0.00
8	83.90	83.98	0.0000	0.00
9	87.21	87.29	0.0000	0.00
10	89.37	89.45	0.0000	0.00
11	94.50	94.58	0.0000	0.00
12	113.07	113.14	0.0000	0.00
13	122.34	122.40	0.0000	0.00
14	143.95	144.00	0.0000	0.00
15	154.03	154.07	0.0000	0.00
16	180.87	180.89	0.0000	0.00
17	186.08	186.11	0.0000	0.00
18	196.11	196.13	0.0000	0.00
19	204.74	204.75	0.0000	0.00
20	210.82	210.83	0.0000	0.00
21	230.18	230.18	0.0000	0.00
22	236.01	236.01	0.0000	0.00
23	241.88	241.88	0.0000	0.00
24	253.73	253.71	0.0000	0.00
25	256.10	256.08	0.0000	0.00
26	258.88	258.87	0.0000	0.00
27	270.02	270.00	0.0000	0.00
28	274.29	274.27	0.0000	0.00
29	281.85	281.82	0.0000	0.00
30	285.17	285.14	0.0000	0.00
31	295.14	295.11	0.0000	0.00
32	300.32	300.29	0.0000	0.00
33	313.71	313.66	0.0000	0.00
34	323.77	323.72	0.0000	0.00
35	329.73	329.68	0.0000	0.00
36	338.22	338.16	0.0000	0.00
37	351.79	351.73	0.0000	0.00
38	371.91	371.83	0.0000	0.00
39	386.57	386.49	0.0000	0.00
40	388.81	388.72	0.0000	0.00
41	401.76	401.67	0.0000	0.00
42	404.85	404.76	0.0000	0.00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
43	426.89	426.79	0.0000	0.00
44	445.03	444.92	0.0000	0.00
45	454.70	454.59	0.0000	0.00
46	461.78	461.66	0.0000	0.00
47	469.81	469.68	0.0000	0.00
48	474.79	474.67	0.0000	0.00
49	480.48	480.35	0.0000	0.00
50	487.02	486.89	0.0000	0.00
51	502.11	501.97	0.0000	0.00
52	510.81	510.66	0.0000	0.00
53	533.93	533.78	0.0000	0.00
54	543.34	543.18	0.0000	0.00
55	572.62	572.44	0.0000	0.00
56	580.04	579.86	0.0000	0.00
57	598.95	598.76	0.0000	0.00
58	609.30	609.11	0.0000	0.00
59	632.79	632.59	0.0000	0.00
60	640.55	640.34	0.0000	0.00
61	648.83	648.61	0.0000	0.00
62	665.46	665.24	0.0000	0.00
63	697.27	697.04	0.0000	0.00
64	703.46	703.23	0.0000	0.00
65	710.11	709.88	0.0000	0.00
66	719.90	719.65	0.0000	0.00
67	742.42	742.16	0.0000	0.00
68	753.26	753.00	0.0000	0.00
69	768.29	768.03	0.0000	0.00
70	782.57	782.30	0.0000	0.00
71	785.90	785.63	0.0000	0.00
72	806.27	805.99	0.0000	0.00
73	821.08	820.80	0.0000	0.00
74	826.43	826.14	0.0000	0.00
75	831.99	831.69	0.0000	0.00
76	839.13	838.84	0.0000	0.00
77	898.17	897.85	0.0000	0.00
78	911.13	910.80	0.0000	0.00
79	934.13	933.80	0.0000	0.00
80	964.20	963.86	0.0000	0.00
81	1052.07	1051.69	0.0000	0.00
82	1069.86	1069.47	0.0000	0.00
83	1096.84	1096.44	0.0000	0.00
84	1103.95	1103.55	0.0000	0.00
85	1120.42	1120.01	0.0000	0.00
86	1133.69	1133.28	0.0000	0.00
87	1155.32	1154.90	0.0000	0.00
88	1181.98	1181.55	0.0000	0.00
89	1207.78	1207.34	0.0000	0.00
90	1218.31	1217.86	0.0000	0.00
91	1238.27	1237.82	0.0000	0.00
92	1253.71	1253.25	0.0000	0.00
93	1281.12	1280.65	0.0000	0.00
94	1303.47	1303.00	0.0000	0.00
95	1336.87	1336.38	0.0000	0.00
96	1377.80	1377.30	0.0000	0.00
97	1385.48	1384.98	0.0000	0.00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	Centroid Channel	Centroid Uncertainty	Peak Significance
98	1401.65	1401.15	0.0000	0.00
99	1408.13	1407.63	0.0000	0.00
100	1414.46	1413.95	0.0000	0.00
101	1425.38	1424.87	0.0000	0.00
102	1461.49	1460.97	0.0000	0.00
103	1482.24	1481.71	0.0000	0.00
104	1509.41	1508.88	0.0000	0.00
105	1538.67	1538.12	0.0000	0.00
106	1543.53	1542.99	0.0000	0.00
107	1583.45	1582.89	0.0000	0.00
108	1594.80	1594.24	0.0000	0.00
109	1599.63	1599.07	0.0000	0.00
110	1608.47	1607.91	0.0000	0.00
111	1644.45	1643.87	0.0000	0.00
112	1661.35	1660.78	0.0000	0.00
113	1683.99	1683.40	0.0000	0.00
114	1693.15	1692.56	0.0000	0.00
115	1729.75	1729.16	0.0000	0.00
116	1764.67	1764.06	0.0000	0.00
117	1781.07	1780.47	0.0000	0.00
118	1838.47	1837.85	0.0000	0.00
119	1847.59	1846.96	0.0000	0.00
120	1873.32	1872.69	0.0000	0.00
121	1890.35	1889.72	0.0000	0.00
122	1897.09	1896.45	0.0000	0.00
123	1936.80	1936.15	0.0000	0.00
124	2010.99	2010.33	0.0000	0.00
125	2017.56	2016.90	0.0000	0.00
126	2030.35	2029.68	0.0000	0.00
127	2052.89	2052.22	0.0000	0.00
128	2059.58	2058.91	0.0000	0.00
129	2089.81	2089.14	0.0000	0.00
130	2109.89	2109.22	0.0000	0.00
131	2118.60	2117.92	0.0000	0.00
132	2192.14	2191.45	0.0000	0.00
133	2204.14	2203.45	0.0000	0.00
134	2293.45	2292.74	0.0000	0.00
135	2331.97	2331.25	0.0000	0.00
136	2447.72	2446.99	0.0000	0.00
137	2614.39	2613.65	0.0000	0.00
138	2629.75	2629.01	0.0000	0.00
139	2636.61	2635.87	0.0000	0.00
140	2683.82	2683.08	0.0000	0.00
141	2694.93	2694.18	0.0000	0.00
142	2727.63	2726.89	0.0000	0.00
143	2769.53	2768.78	0.0000	0.00
144	2784.89	2784.14	0.0000	0.00
145	2878.82	2878.06	0.0000	0.00
146	2953.11	2952.36	0.0000	0.00
147	2978.19	2977.44	0.0000	0.00
148	2999.08	2998.32	0.0000	0.00
149	3053.74	3052.98	0.0000	0.00
150	3101.18	3100.43	0.0000	0.00
151	3213.75	3213.00	0.0000	0.00
152	3219.36	3218.61	0.0000	0.00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

? = Adjacent peak noted
Errors quoted at 2.000sigma

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Peak Analysis From Channel : 1

Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	1	15.25	14 -	17	15.38	5.98E+03	689.95	1.18E+05	1.46
M	2	32.06	29 -	41	32.18	8.14E+04	792.49	7.83E+04	1.50
m	3	36.48	29 -	41	36.59	3.03E+04	738.56	8.97E+04	1.77
	4	46.50	44 -	49	46.61	5.31E+03	752.23	1.09E+05	1.64
	5	67.64	65 -	70	67.73	3.28E+04	867.24	1.28E+05	1.58
M	6	76.30	72 -	92	76.38	7.20E+04	1160.58	1.73E+05	2.60
m	7	80.89	72 -	92	80.97	2.21E+04	899.72	1.31E+05	2.12
m	8	83.90	72 -	92	83.98	3.07E+04	798.52	1.10E+05	1.63
m	9	87.21	72 -	92	87.29	1.92E+04	779.37	1.11E+05	1.65
m	10	89.37	72 -	92	89.45	8.87E+03	977.94	1.55E+05	2.39
	11	94.50	92 -	97	94.58	7.57E+03	855.54	1.41E+05	1.71
	12	113.07	112 -	115	113.14	1.22E+03	592.96	8.66E+04	1.45
	13	122.34	121 -	124	122.40	2.58E+03	601.61	8.81E+04	1.66
M	14	143.95	140 -	160	144.00	2.52E+04	816.54	1.26E+05	1.56
m	15	154.03	140 -	160	154.07	1.80E+04	801.00	1.25E+05	1.68
M	16	180.87	178 -	190	180.89	1.78E+03	724.41	1.15E+05	3.09
m	17	186.08	178 -	190	186.11	4.75E+04	843.83	1.15E+05	1.55
	18	196.11	194 -	199	196.13	1.33E+03	820.89	1.34E+05	2.68
	19	204.74	203 -	207	204.75	1.66E+03	680.14	1.01E+05	2.70
	20	210.82	209 -	214	210.83	3.56E+03	762.59	1.13E+05	1.97
M	21	230.18	227 -	246	230.18	4.96E+02	613.63	8.52E+04	1.54
m	22	236.01	227 -	246	236.01	2.91E+04	711.15	8.22E+04	1.55
m	23	241.88	227 -	246	241.88	7.66E+04	827.22	7.75E+04	1.56
M	24	253.73	251 -	262	253.71	4.06E+03	601.60	7.65E+04	1.78
m	25	256.10	251 -	262	256.08	1.74E+04	645.21	7.33E+04	1.65
m	26	258.88	251 -	262	258.87	6.10E+03	718.26	8.50E+04	2.08
M	27	270.02	267 -	277	270.00	5.99E+04	865.43	9.08E+04	2.84
m	28	274.29	267 -	277	274.27	5.63E+03	786.07	8.97E+04	2.36
M	29	281.85	280 -	289	281.82	1.62E+03	459.68	5.03E+04	2.16
m	30	285.17	280 -	289	285.14	8.16E+03	873.98	1.11E+05	2.89
M	31	295.14	291 -	306	295.11	1.86E+05	1004.68	5.80E+04	1.61
m	32	300.32	291 -	306	300.29	1.04E+04	561.05	5.57E+04	1.66
	33	313.71	311 -	317	313.66	3.44E+03	642.00	7.24E+04	3.93
M	34	323.77	320 -	332	323.72	7.56E+03	445.42	4.22E+04	1.43
m	35	329.73	320 -	332	329.68	7.74E+03	450.58	4.41E+04	1.43
	36	338.22	336 -	341	338.16	4.11E+03	583.07	6.47E+04	1.38
	37	351.79	346 -	357	351.73	3.55E+05	1524.83	1.13E+05	1.86
	38	371.91	370 -	375	371.83	1.40E+03	505.75	4.99E+04	2.45
M	39	386.57	384 -	392	386.49	2.34E+03	446.22	4.11E+04	1.73
m	40	388.81	384 -	392	388.72	3.51E+03	518.73	4.94E+04	1.97

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
M	41	401.76	398 -	408	401.67	1.27E+04	494.55	4.28E+04	1.64
m	42	404.85	398 -	408	404.76	8.40E+03	506.81	4.30E+04	1.83
	43	426.89	422 -	430	426.79	4.26E+03	692.29	7.06E+04	1.58
	44	445.03	442 -	448	444.92	2.24E+03	495.23	4.29E+04	1.71
	45	454.70	452 -	458	454.59	2.11E+03	481.16	4.04E+04	2.10
	46	461.78	459 -	465	461.66	1.77E+03	470.70	3.90E+04	2.25
	47	469.81	468 -	472	469.68	8.25E+02	352.16	2.68E+04	1.96
	48	474.79	473 -	477	474.67	8.20E+02	347.71	2.61E+04	1.39
	49	480.48	478 -	483	480.35	2.40E+03	402.83	3.05E+04	1.78
	50	487.02	484 -	490	486.89	2.82E+03	447.19	3.42E+04	1.79
	51	502.11	500 -	505	501.97	4.08E+02	364.82	2.63E+04	1.31
	52	510.81	506 -	515	510.66	5.44E+03	566.70	4.27E+04	3.53
	53	533.93	531 -	537	533.78	1.24E+03	409.22	2.96E+04	1.89
	54	543.34	542 -	546	543.18	4.63E+02	308.60	2.08E+04	1.87
	55	572.62	570 -	575	572.44	4.13E+02	345.29	2.35E+04	1.94
	56	580.04	576 -	583	579.86	1.91E+03	444.14	3.16E+04	1.49
	57	598.95	597 -	601	598.76	2.70E+02	290.95	1.85E+04	2.78
	58	609.30	604 -	613	609.11	2.56E+05	1134.27	3.74E+04	1.73
	59	632.79	630 -	636	632.59	5.58E+02	351.32	2.20E+04	3.60
	60	640.55	638 -	643	640.34	3.22E+02	307.38	1.86E+04	4.00
	61	648.83	646 -	651	648.61	3.20E+02	299.98	1.77E+04	2.87
	62	665.46	662 -	669	665.24	7.19E+03	408.20	2.30E+04	1.90
	63	697.27	694 -	700	697.04	3.47E+02	328.31	1.93E+04	1.58
	64	703.46	700 -	707	703.23	2.88E+03	382.16	2.25E+04	2.36
	65	710.11	708 -	714	709.88	3.72E+02	324.84	1.88E+04	4.40
	66	719.90	716 -	723	719.65	1.82E+03	369.59	2.16E+04	2.06
	67	742.42	739 -	746	742.16	1.38E+03	358.12	2.05E+04	2.78
	68	753.26	751 -	756	753.00	3.87E+02	277.18	1.51E+04	2.43
	69	768.29	763 -	773	768.03	2.43E+04	554.56	2.80E+04	1.91
M	70	782.57	781 -	790	782.30	2.02E+02	162.77	7.41E+03	1.65
m	71	785.90	781 -	790	785.63	5.52E+03	310.70	1.49E+04	2.05
	72	806.27	800 -	810	805.99	5.39E+03	480.02	2.78E+04	2.03
	73	821.08	819 -	824	820.80	3.26E+02	282.02	1.57E+04	1.83
M	74	826.43	824 -	835	826.14	7.18E+02	206.47	9.99E+03	2.15
m	75	831.99	824 -	835	831.69	4.36E+03	304.19	1.50E+04	1.99
	76	839.13	836 -	844	838.84	3.08E+03	398.92	2.26E+04	2.04
	77	898.17	896 -	900	897.85	2.74E+02	249.09	1.36E+04	1.83
	78	911.13	908 -	914	910.80	4.00E+02	317.79	1.80E+04	2.58
	79	934.13	929 -	938	933.80	1.26E+04	459.58	2.30E+04	2.11
	80	964.20	960 -	967	963.86	1.26E+03	332.58	1.76E+04	1.77
	81	1052.07	1048 -	1055	1051.69	1.09E+03	294.91	1.38E+04	2.24
	82	1069.86	1066 -	1073	1069.47	9.36E+02	291.90	1.36E+04	2.16
	83	1096.84	1094 -	1099	1096.44	3.07E+02	220.22	9.43E+03	2.14
	84	1103.95	1100 -	1107	1103.55	6.73E+02	281.21	1.28E+04	3.18
	85	1120.42	1115 -	1126	1120.01	5.56E+04	618.49	2.00E+04	2.21
	86	1133.69	1130 -	1137	1133.28	7.00E+02	289.55	1.34E+04	2.00
	87	1155.32	1150 -	1160	1154.90	6.08E+03	402.34	1.83E+04	2.28
	88	1181.98	1178 -	1185	1181.55	6.44E+02	271.12	1.18E+04	2.69
	89	1207.78	1203 -	1211	1207.34	1.43E+03	295.99	1.26E+04	2.20
	90	1218.31	1215 -	1220	1217.86	2.32E+02	203.24	8.09E+03	2.56
	91	1238.27	1233 -	1243	1237.82	2.05E+04	438.33	1.47E+04	2.26
	92	1253.71	1249 -	1257	1253.25	1.22E+03	287.54	1.20E+04	2.15
	93	1281.12	1277 -	1285	1280.65	4.83E+03	306.48	1.15E+04	2.42

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
	94	1303.47	1300	1307	1303.00	4.75E+02	240.80	9.35E+03	3.03
	95	1336.87	1334	1339	1336.38	1.96E+02	190.10	7.05E+03	3.18
M	96	1377.80	1370	1389	1377.30	1.43E+04	319.60	8.17E+03	2.33
m	97	1385.48	1370	1389	1384.98	2.80E+03	259.28	9.27E+03	2.60
M	98	1401.65	1396	1420	1401.15	4.43E+03	250.18	8.07E+03	2.42
m	99	1408.13	1396	1420	1407.63	7.53E+03	274.95	8.20E+03	2.35
m	100	1414.46	1396	1420	1413.95	2.84E+02	339.41	1.30E+04	3.68
	101	1425.38	1422	1428	1424.87	3.29E+02	215.33	8.19E+03	3.54
	102	1461.49	1458	1464	1460.97	2.36E+02	213.50	8.10E+03	2.96
	103	1482.24	1479	1485	1481.71	1.87E+02	222.49	8.84E+03	1.89
	104	1509.41	1504	1514	1508.88	6.37E+03	366.98	1.45E+04	2.34
M	105	1538.67	1534	1547	1538.12	1.47E+03	248.29	9.49E+03	2.59
m	106	1543.53	1534	1547	1542.99	1.42E+03	248.65	8.77E+03	2.52
	107	1583.45	1578	1588	1582.89	2.20E+03	283.83	9.56E+03	2.59
M	108	1594.80	1590	1603	1594.24	8.32E+02	208.01	6.63E+03	2.63
m	109	1599.63	1590	1603	1599.07	9.55E+02	211.10	6.52E+03	2.63
	110	1608.47	1605	1611	1607.91	1.66E+02	177.19	5.57E+03	1.46
	111	1644.45	1642	1647	1643.87	1.30E+02	130.39	3.30E+03	1.84
	112	1661.35	1654	1667	1660.78	3.21E+03	280.70	7.31E+03	2.60
	113	1683.99	1678	1687	1683.40	6.36E+02	186.68	4.60E+03	2.43
	114	1693.15	1688	1697	1692.56	8.88E+02	183.98	4.32E+03	3.07
	115	1729.75	1722	1735	1729.16	9.64E+03	301.18	5.79E+03	2.54
	116	1764.67	1757	1771	1764.06	4.43E+04	488.36	6.49E+03	2.70
	117	1781.07	1778	1783	1780.47	1.21E+02	111.14	2.37E+03	2.55
M	118	1838.47	1831	1853	1837.85	9.49E+02	142.10	2.69E+03	2.75
m	119	1847.59	1831	1853	1846.96	5.97E+03	201.76	2.78E+03	2.67
	120	1873.32	1868	1877	1872.69	5.69E+02	167.18	3.67E+03	2.69
M	121	1890.35	1886	1901	1889.72	3.81E+02	120.79	2.42E+03	2.88
m	122	1897.09	1886	1901	1896.45	5.02E+02	173.83	3.68E+03	3.74
	123	1936.80	1931	1942	1936.15	4.58E+02	188.35	4.20E+03	4.42
M	124	2010.99	2007	2021	2010.33	1.53E+02	111.48	2.06E+03	2.55
m	125	2017.56	2007	2021	2016.90	3.19E+02	134.89	2.30E+03	3.48
	126	2030.35	2022	2038	2029.68	2.34E+02	187.75	3.25E+03	12.21
	127	2052.89	2049	2056	2052.22	1.49E+02	99.92	1.57E+03	2.28
	128	2059.58	2056	2062	2058.91	9.75E+01	83.75	1.19E+03	3.70
	129	2089.81	2084	2094	2089.14	1.54E+02	113.88	1.62E+03	4.87
M	130	2109.89	2105	2125	2109.22	1.87E+02	91.91	1.21E+03	3.09
m	131	2118.60	2105	2125	2117.92	3.12E+03	141.14	1.15E+03	3.06
	132	2192.14	2188	2195	2191.45	7.24E+01	80.62	1.04E+03	2.37
	133	2204.14	2197	2210	2203.45	1.17E+04	253.27	1.92E+03	2.88
	134	2293.45	2286	2300	2292.74	7.97E+02	114.03	1.03E+03	2.89
	135	2331.97	2326	2335	2331.25	8.81E+01	56.88	4.04E+02	5.18
	136	2447.72	2441	2454	2446.99	3.46E+03	137.54	5.58E+02	3.13
	137	2614.39	2608	2618	2613.65	2.17E+02	42.61	1.26E+02	3.27
M	138	2629.75	2627	2640	2629.01	1.51E+01	11.78	3.18E+01	2.48
m	139	2636.61	2627	2640	2635.87	2.24E+01	27.26	8.95E+01	3.87
M	140	2683.82	2677	2708	2683.08	2.26E+01	29.24	1.24E+02	3.54
m	141	2694.93	2677	2708	2694.18	8.05E+01	34.51	1.02E+02	3.55
	142	2727.63	2723	2731	2726.89	2.25E+01	28.18	1.09E+02	2.94
	143	2769.53	2762	2775	2768.78	6.44E+01	36.46	1.19E+02	2.33
	144	2784.89	2779	2791	2784.14	3.93E+01	29.62	8.53E+01	4.11
	145	2878.82	2872	2884	2878.06	2.84E+01	22.36	4.53E+01	3.03
	146	2953.11	2944	2960	2952.36	2.62E+01	23.35	3.96E+01	12.43

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	FWHM (keV)
147	2978.19	2973 -	2982	2977.44	3.69E+01	19.57	3.02E+01	3.76
148	2999.08	2992 -	3006	2998.32	3.44E+01	18.67	2.13E+01	5.29
149	3053.74	3046 -	3060	3052.98	4.91E+01	20.22	2.19E+01	4.18
150	3101.18	3096 -	3106	3100.43	1.40E+01	13.07	1.20E+01	5.40
151	3213.75	3210 -	3215	3213.00	7.00E+00	5.29	0.00E+00	1.00
152	3219.36	3216 -	3221	3218.61	5.36E+00	6.08	3.29E+00	1.95

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK ANALYSIS REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	1	15.25	14 -	17	5.98E+03	689.95	1.18E+05	6.22E+02
M	2	32.06	29 -	41	8.14E+04	792.49	7.83E+04	4.60E+02
m	3	36.48	29 -	41	3.03E+04	738.56	8.97E+04	4.92E+02
	4	46.50	44 -	49	5.31E+03	752.23	1.09E+05	6.74E+02
	5	67.64	65 -	70	3.28E+04	867.24	1.28E+05	7.18E+02
M	6	76.30	72 -	92	7.20E+04	1160.58	1.73E+05	6.84E+02
m	7	80.89	72 -	92	2.21E+04	899.72	1.31E+05	5.96E+02
m	8	83.90	72 -	92	3.07E+04	798.52	1.10E+05	5.45E+02
m	9	87.21	72 -	92	1.92E+04	779.37	1.11E+05	5.47E+02
m	10	89.37	72 -	92	8.87E+03	977.94	1.55E+05	6.48E+02
	11	94.50	92 -	97	7.57E+03	855.54	1.41E+05	6.89E+02
	12	113.07	112 -	115	1.22E+03	592.96	8.66E+04	4.84E+02
	13	122.34	121 -	124	2.58E+03	601.61	8.81E+04	4.87E+02
M	14	143.95	140 -	160	2.52E+04	816.54	1.26E+05	5.83E+02
m	15	154.03	140 -	160	1.80E+04	801.00	1.25E+05	5.80E+02
M	16	180.87	178 -	190	1.78E+03	724.41	1.15E+05	5.58E+02
m	17	186.08	178 -	190	4.75E+04	843.83	1.15E+05	5.58E+02
	18	196.11	194 -	199	1.33E+03	820.89	1.34E+05	6.72E+02
	19	204.74	203 -	207	1.66E+03	680.14	1.01E+05	5.55E+02
	20	210.82	209 -	214	3.56E+03	762.59	1.13E+05	6.19E+02
M	21	230.18	227 -	246	4.96E+02	613.63	8.52E+04	4.80E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
m	22	236.01	227 -	246	2.91E+04	711.15	8.22E+04	4.71E+02
m	23	241.88	227 -	246	7.66E+04	827.22	7.75E+04	4.58E+02
M	24	253.73	251 -	262	4.06E+03	601.60	7.65E+04	4.55E+02
m	25	256.10	251 -	262	1.74E+04	645.21	7.33E+04	4.45E+02
m	26	258.88	251 -	262	6.10E+03	718.26	8.50E+04	4.79E+02
M	27	270.02	267 -	277	5.99E+04	865.43	9.08E+04	4.95E+02
m	28	274.29	267 -	277	5.63E+03	786.07	8.97E+04	4.92E+02
M	29	281.85	280 -	289	1.62E+03	459.68	5.03E+04	3.69E+02
m	30	285.17	280 -	289	8.16E+03	873.98	1.11E+05	5.49E+02
M	31	295.14	291 -	306	1.86E+05	1004.68	5.80E+04	3.96E+02
m	32	300.32	291 -	306	1.04E+04	561.05	5.57E+04	3.88E+02
	33	313.71	311 -	317	3.44E+03	642.00	7.24E+04	5.19E+02
M	34	323.77	320 -	332	7.56E+03	445.42	4.22E+04	3.38E+02
m	35	329.73	320 -	332	7.74E+03	450.58	4.41E+04	3.45E+02
	36	338.22	336 -	341	4.11E+03	583.07	6.47E+04	4.68E+02
	37	351.79	346 -	357	3.55E+05	1524.83	1.13E+05	7.82E+02
	38	371.91	370 -	375	1.40E+03	505.75	4.99E+04	4.11E+02
M	39	386.57	384 -	392	2.34E+03	446.22	4.11E+04	3.33E+02
m	40	388.81	384 -	392	3.51E+03	518.73	4.94E+04	3.65E+02
M	41	401.76	398 -	408	1.27E+04	494.55	4.28E+04	3.40E+02
m	42	404.85	398 -	408	8.40E+03	506.81	4.30E+04	3.41E+02
	43	426.89	422 -	430	4.26E+03	692.29	7.06E+04	5.59E+02
	44	445.03	442 -	448	2.24E+03	495.23	4.29E+04	4.00E+02
	45	454.70	452 -	458	2.11E+03	481.16	4.04E+04	3.88E+02
	46	461.78	459 -	465	1.77E+03	470.70	3.90E+04	3.81E+02
	47	469.81	468 -	472	8.25E+02	352.16	2.68E+04	2.86E+02
	48	474.79	473 -	477	8.20E+02	347.71	2.61E+04	2.82E+02
	49	480.48	478 -	483	2.40E+03	402.83	3.05E+04	3.21E+02
	50	487.02	484 -	490	2.82E+03	447.19	3.42E+04	3.57E+02
	51	502.11	500 -	505	4.08E+02	364.82	2.63E+04	2.98E+02
	52	510.81	506 -	515	5.44E+03	566.70	4.27E+04	4.50E+02
	53	533.93	531 -	537	1.24E+03	409.22	2.96E+04	3.31E+02
	54	543.34	542 -	546	4.63E+02	308.60	2.08E+04	2.51E+02
	55	572.62	570 -	575	4.13E+02	345.29	2.35E+04	2.82E+02
	56	580.04	576 -	583	1.91E+03	444.14	3.16E+04	3.58E+02
	57	598.95	597 -	601	2.70E+02	290.95	1.85E+04	2.38E+02
	58	609.30	604 -	613	2.56E+05	1134.27	3.74E+04	4.20E+02
	59	632.79	630 -	636	5.58E+02	351.32	2.20E+04	2.86E+02
	60	640.55	638 -	643	3.22E+02	307.38	1.86E+04	2.51E+02
	61	648.83	646 -	651	3.20E+02	299.98	1.77E+04	2.45E+02
	62	665.46	662 -	669	7.19E+03	408.20	2.30E+04	3.05E+02
	63	697.27	694 -	700	3.47E+02	328.31	1.93E+04	2.68E+02
	64	703.46	700 -	707	2.88E+03	382.16	2.25E+04	3.02E+02
	65	710.11	708 -	714	3.72E+02	324.84	1.88E+04	2.65E+02
	66	719.90	716 -	723	1.82E+03	369.59	2.16E+04	2.96E+02
	67	742.42	739 -	746	1.38E+03	358.12	2.05E+04	2.88E+02
	68	753.26	751 -	756	3.87E+02	277.18	1.51E+04	2.26E+02
	69	768.29	763 -	773	2.43E+04	554.56	2.80E+04	3.77E+02
M	70	782.57	781 -	790	2.02E+02	162.77	7.41E+03	1.42E+02
m	71	785.90	781 -	790	5.52E+03	310.70	1.49E+04	2.00E+02
	72	806.27	800 -	810	5.39E+03	480.02	2.78E+04	3.76E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
	73	821.08	819 -	824	3.26E+02	282.02	1.57E+04	2.30E+02
M	74	826.43	824 -	835	7.18E+02	206.47	9.99E+03	1.64E+02
m	75	831.99	824 -	835	4.36E+03	304.19	1.50E+04	2.01E+02
	76	839.13	836 -	844	3.08E+03	398.92	2.26E+04	3.15E+02
	77	898.17	896 -	900	2.74E+02	249.09	1.36E+04	2.03E+02
	78	911.13	908 -	914	4.00E+02	317.79	1.80E+04	2.59E+02
	79	934.13	929 -	938	1.26E+04	459.58	2.30E+04	3.30E+02
	80	964.20	960 -	967	1.26E+03	332.58	1.76E+04	2.67E+02
	81	1052.07	1048 -	1055	1.09E+03	294.91	1.38E+04	2.36E+02
	82	1069.86	1066 -	1073	9.36E+02	291.90	1.36E+04	2.35E+02
	83	1096.84	1094 -	1099	3.07E+02	220.22	9.43E+03	1.79E+02
	84	1103.95	1100 -	1107	6.73E+02	281.21	1.28E+04	2.27E+02
	85	1120.42	1115 -	1126	5.56E+04	618.49	2.00E+04	3.29E+02
	86	1133.69	1130 -	1137	7.00E+02	289.55	1.34E+04	2.34E+02
	87	1155.32	1150 -	1160	6.08E+03	402.34	1.83E+04	3.05E+02
	88	1181.98	1178 -	1185	6.44E+02	271.12	1.18E+04	2.19E+02
	89	1207.78	1203 -	1211	1.43E+03	295.99	1.26E+04	2.35E+02
	90	1218.31	1215 -	1220	2.32E+02	203.24	8.09E+03	1.65E+02
	91	1238.27	1233 -	1243	2.05E+04	438.33	1.47E+04	2.73E+02
	92	1253.71	1249 -	1257	1.22E+03	287.54	1.20E+04	2.29E+02
	93	1281.12	1277 -	1285	4.83E+03	306.48	1.15E+04	2.25E+02
	94	1303.47	1300 -	1307	4.75E+02	240.80	9.35E+03	1.95E+02
	95	1336.87	1334 -	1339	1.96E+02	190.10	7.05E+03	1.55E+02
M	96	1377.80	1370 -	1389	1.43E+04	319.60	8.17E+03	1.49E+02
m	97	1385.48	1370 -	1389	2.80E+03	259.28	9.27E+03	1.58E+02
M	98	1401.65	1396 -	1420	4.43E+03	250.18	8.07E+03	1.48E+02
m	99	1408.13	1396 -	1420	7.53E+03	274.95	8.20E+03	1.49E+02
m	100	1414.46	1396 -	1420	2.84E+02	339.41	1.30E+04	1.88E+02
	101	1425.38	1422 -	1428	3.29E+02	215.33	8.19E+03	1.74E+02
	102	1461.49	1458 -	1464	2.36E+02	213.50	8.10E+03	1.74E+02
	103	1482.24	1479 -	1485	1.87E+02	222.49	8.84E+03	1.82E+02
	104	1509.41	1504 -	1514	6.37E+03	366.98	1.45E+04	2.72E+02
M	105	1538.67	1534 -	1547	1.47E+03	248.29	9.49E+03	1.60E+02
m	106	1543.53	1534 -	1547	1.42E+03	248.65	8.77E+03	1.54E+02
	107	1583.45	1578 -	1588	2.20E+03	283.83	9.56E+03	2.20E+02
M	108	1594.80	1590 -	1603	8.32E+02	208.01	6.63E+03	1.34E+02
m	109	1599.63	1590 -	1603	9.55E+02	211.10	6.52E+03	1.33E+02
	110	1608.47	1605 -	1611	1.66E+02	177.19	5.57E+03	1.44E+02
	111	1644.45	1642 -	1647	1.30E+02	130.39	3.30E+03	1.06E+02
	112	1661.35	1654 -	1667	3.21E+03	280.70	7.31E+03	2.11E+02
	113	1683.99	1678 -	1687	6.36E+02	186.68	4.60E+03	1.48E+02
	114	1693.15	1688 -	1697	8.88E+02	183.98	4.32E+03	1.43E+02
	115	1729.75	1722 -	1735	9.64E+03	301.18	5.79E+03	1.88E+02
	116	1764.67	1757 -	1771	4.43E+04	488.36	6.49E+03	2.04E+02
	117	1781.07	1778 -	1783	1.21E+02	111.14	2.37E+03	8.95E+01
M	118	1838.47	1831 -	1853	9.49E+02	142.10	2.69E+03	8.53E+01
m	119	1847.59	1831 -	1853	5.97E+03	201.76	2.78E+03	8.67E+01
	120	1873.32	1868 -	1877	5.69E+02	167.18	3.67E+03	1.32E+02
M	121	1890.35	1886 -	1901	3.81E+02	120.79	2.42E+03	8.09E+01
m	122	1897.09	1886 -	1901	5.02E+02	173.83	3.68E+03	9.97E+01
	123	1936.80	1931 -	1942	4.58E+02	188.35	4.20E+03	1.51E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Net Peak Area	Net Area Uncertainty	Continuum Counts	Critical Level
M	124	2010.99	2007 -	2021	1.53E+02	111.48	2.06E+03	7.46E+01
m	125	2017.56	2007 -	2021	3.19E+02	134.89	2.30E+03	7.88E+01
	126	2030.35	2022 -	2038	2.34E+02	187.75	3.25E+03	1.52E+02
	127	2052.89	2049 -	2056	1.49E+02	99.92	1.57E+03	7.96E+01
	128	2059.58	2056 -	2062	9.75E+01	83.75	1.19E+03	6.69E+01
	129	2089.81	2084 -	2094	1.54E+02	113.88	1.62E+03	9.14E+01
M	130	2109.89	2105 -	2125	1.87E+02	91.91	1.21E+03	5.72E+01
m	131	2118.60	2105 -	2125	3.12E+03	141.14	1.15E+03	5.58E+01
	132	2192.14	2188 -	2195	7.24E+01	80.62	1.04E+03	6.48E+01
	133	2204.14	2197 -	2210	1.17E+04	253.27	1.92E+03	1.08E+02
	134	2293.45	2286 -	2300	7.97E+02	114.03	1.03E+03	8.14E+01
	135	2331.97	2326 -	2335	8.81E+01	56.88	4.04E+02	4.41E+01
	136	2447.72	2441 -	2454	3.46E+03	137.54	5.58E+02	5.86E+01
	137	2614.39	2608 -	2618	2.17E+02	42.61	1.26E+02	2.53E+01
M	138	2629.75	2627 -	2640	1.51E+01	11.78	3.18E+01	9.28E+00
m	139	2636.61	2627 -	2640	2.24E+01	27.26	8.95E+01	1.56E+01
M	140	2683.82	2677 -	2708	2.26E+01	29.24	1.24E+02	1.83E+01
m	141	2694.93	2677 -	2708	8.05E+01	34.51	1.02E+02	1.66E+01
	142	2727.63	2723 -	2731	2.25E+01	28.18	1.09E+02	2.18E+01
	143	2769.53	2762 -	2775	6.44E+01	36.46	1.19E+02	2.69E+01
	144	2784.89	2779 -	2791	3.93E+01	29.62	8.53E+01	2.21E+01
	145	2878.82	2872 -	2884	2.84E+01	22.36	4.53E+01	1.62E+01
	146	2953.11	2944 -	2960	2.62E+01	23.35	3.96E+01	1.73E+01
	147	2978.19	2973 -	2982	3.69E+01	19.57	3.02E+01	1.26E+01
	148	2999.08	2992 -	3006	3.44E+01	18.67	2.13E+01	1.19E+01
	149	3053.74	3046 -	3060	4.91E+01	20.22	2.19E+01	1.20E+01
	150	3101.18	3096 -	3106	1.40E+01	13.07	1.20E+01	8.81E+00
	151	3213.75	3210 -	3215	7.00E+00	5.29	0.00E+00	0.00E+00
	152	3219.36	3216 -	3221	5.36E+00	6.08	3.29E+00	3.24E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK WITH NID REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Peak Analysis From Channel : 1
Peak Analysis To Channel : 4096

Tentative NID Library : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB
Peak Match Tolerance : 1.000 keV

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
	1	15.25	14 -	17	15.38	5.98E+03	689.95	1.18E+05	.....
M	2	32.06	29 -	41	32.18	8.14E+04	792.49	7.83E+04	.....
m	3	36.48	29 -	41	36.59	3.03E+04	738.56	8.97E+04	PM-145
									PM-145
									I-125
	4	46.50	44 -	49	46.61	5.31E+03	752.23	1.09E+05	PB-210
	5	67.64	65 -	70	67.73	3.28E+04	867.24	1.28E+05	TH-230
									TA-182
									TI-44
									TM-171
M	6	76.30	72 -	92	76.38	7.20E+04	1160.58	1.73E+05	.....
m	7	80.89	72 -	92	80.97	2.21E+04	899.72	1.31E+05	XE-133
									BA-133
									HF-172
m	8	83.90	72 -	92	83.98	3.07E+04	798.52	1.10E+05	TH-231
m	9	87.21	72 -	92	87.29	1.92E+04	779.37	1.11E+05	SN-126
									NP-237
									EU-155
									CD-109
m	10	89.37	72 -	92	89.45	8.87E+03	977.94	1.55E+05	.....
	11	94.50	92 -	97	94.58	7.57E+03	855.54	1.41E+05	.....
	12	113.07	112 -	115	113.14	1.22E+03	592.96	8.66E+04	.....
	13	122.34	121 -	124	122.40	2.58E+03	601.61	8.81E+04	CO-57
									EU-152
									EU-154
M	14	143.95	140 -	160	144.00	2.52E+04	816.54	1.26E+05	U-235
m	15	154.03	140 -	160	154.07	1.80E+04	801.00	1.25E+05	CS-136
M	16	180.87	178 -	190	180.89	1.78E+03	724.41	1.15E+05	MO-99
									LU-172
m	17	186.08	178 -	190	186.11	4.75E+04	843.83	1.15E+05	RA-226
	18	196.11	194 -	199	196.13	1.33E+03	820.89	1.34E+05	.....
	19	204.74	203 -	207	204.75	1.66E+03	680.14	1.01E+05	U-235
	20	210.82	209 -	214	210.83	3.56E+03	762.59	1.13E+05	.....
M	21	230.18	227 -	246	230.18	4.96E+02	613.63	8.52E+04	.....
m	22	236.01	227 -	246	236.01	2.91E+04	711.15	8.22E+04	TH-227
									NB-95M
m	23	241.88	227 -	246	241.88	7.66E+04	827.22	7.75E+04	RA-224
M	24	253.73	251 -	262	253.71	4.06E+03	601.60	7.65E+04	.....
m	25	256.10	251 -	262	256.08	1.74E+04	645.21	7.33E+04	TH-227
									SN-113
m	26	258.88	251 -	262	258.87	6.10E+03	718.26	8.50E+04	.....
M	27	270.02	267 -	277	270.00	5.99E+04	865.43	9.08E+04	.....
m	28	274.29	267 -	277	274.27	5.63E+03	786.07	8.97E+04	CS-136
M	29	281.85	280 -	289	281.82	1.62E+03	459.68	5.03E+04	.....
m	30	285.17	280 -	289	285.14	8.16E+03	873.98	1.11E+05	PM-149
									I-131
M	31	295.14	291 -	306	295.11	1.86E+05	1004.68	5.80E+04	PB-214
m	32	300.32	291 -	306	300.29	1.04E+04	561.05	5.57E+04	GA-67
									PB-212
									BI-210M
	33	313.71	311 -	317	313.66	3.44E+03	642.00	7.24E+04	.....

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	34	323.77	320 -	332	323.72	7.56E+03	445.42	4.22E+04	RA-223
m	35	329.73	320 -	332	329.68	7.74E+03	450.58	4.41E+04	LA-140
	36	338.22	336 -	341	338.16	4.11E+03	583.07	6.47E+04	AC-228
	37	351.79	346 -	357	351.73	3.55E+05	1524.83	1.13E+05	PB-214
	38	371.91	370 -	375	371.83	1.40E+03	505.75	4.99E+04	.....
M	39	386.57	384 -	392	386.49	2.34E+03	446.22	4.11E+04	.....
m	40	388.81	384 -	392	388.72	3.51E+03	518.73	4.94E+04	.....
M	41	401.76	398 -	408	401.67	1.27E+04	494.55	4.28E+04	RN-219
m	42	404.85	398 -	408	404.76	8.40E+03	506.81	4.30E+04	PB-211
	43	426.89	422 -	430	426.79	4.26E+03	692.29	7.06E+04	SB-125
	44	445.03	442 -	448	444.92	2.24E+03	495.23	4.29E+04	.....
	45	454.70	452 -	458	454.59	2.11E+03	481.16	4.04E+04	PM-146
	46	461.78	459 -	465	461.66	1.77E+03	470.70	3.90E+04	.....
	47	469.81	468 -	472	469.68	8.25E+02	352.16	2.68E+04	.....
	48	474.79	473 -	477	474.67	8.20E+02	347.71	2.61E+04	.....
	49	480.48	478 -	483	480.35	2.40E+03	402.83	3.05E+04	.....
	50	487.02	484 -	490	486.89	2.82E+03	447.19	3.42E+04	LA-140
	51	502.11	500 -	505	501.97	4.08E+02	364.82	2.63E+04	.....
	52	510.81	506 -	515	510.66	5.44E+03	566.70	4.27E+04	.....
	53	533.93	531 -	537	533.78	1.24E+03	409.22	2.96E+04	.....
	54	543.34	542 -	546	543.18	4.63E+02	308.60	2.08E+04	.....
	55	572.62	570 -	575	572.44	4.13E+02	345.29	2.35E+04	.....
	56	580.04	576 -	583	579.86	1.91E+03	444.14	3.16E+04	.....
	57	598.95	597 -	601	598.76	2.70E+02	290.95	1.85E+04	.....
	58	609.30	604 -	613	609.11	2.56E+05	1134.27	3.74E+04	BI-214
	59	632.79	630 -	636	632.59	5.58E+02	351.32	2.20E+04	.....
	60	640.55	638 -	643	640.34	3.22E+02	307.38	1.86E+04	.....
	61	648.83	646 -	651	648.61	3.20E+02	299.98	1.77E+04	.....
	62	665.46	662 -	669	665.24	7.19E+03	408.20	2.30E+04	SB-126 CE-143
	63	697.27	694 -	700	697.04	3.47E+02	328.31	1.93E+04	PM-144
	64	703.46	700 -	707	703.23	2.88E+03	382.16	2.25E+04	NB-94
	65	710.11	708 -	714	709.88	3.72E+02	324.84	1.88E+04	.....
	66	719.90	716 -	723	719.65	1.82E+03	369.59	2.16E+04	SB-126
	67	742.42	739 -	746	742.16	1.38E+03	358.12	2.05E+04	.....
	68	753.26	751 -	756	753.00	3.87E+02	277.18	1.51E+04	.....
	69	768.29	763 -	773	768.03	2.43E+04	554.56	2.80E+04	.....
M	70	782.57	781 -	790	782.30	2.02E+02	162.77	7.41E+03	.....
m	71	785.90	781 -	790	785.63	5.52E+03	310.70	1.49E+04	.....
	72	806.27	800 -	810	805.99	5.39E+03	480.02	2.78E+04	.....
	73	821.08	819 -	824	820.80	3.26E+02	282.02	1.57E+04	.....
M	74	826.43	824 -	835	826.14	7.18E+02	206.47	9.99E+03	.....
m	75	831.99	824 -	835	831.69	4.36E+03	304.19	1.50E+04	PB-211
	76	839.13	836 -	844	838.84	3.08E+03	398.92	2.26E+04	.....
	77	898.17	896 -	900	897.85	2.74E+02	249.09	1.36E+04	Y-88
	78	911.13	908 -	914	910.80	4.00E+02	317.79	1.80E+04	AC-228 LU-172
	79	934.13	929 -	938	933.80	1.26E+04	459.58	2.30E+04	.....
	80	964.20	960 -	967	963.86	1.26E+03	332.58	1.76E+04	EU-152
	81	1052.07	1048 -	1055	1051.69	1.09E+03	294.91	1.38E+04	.....
	82	1069.86	1066 -	1073	1069.47	9.36E+02	291.90	1.36E+04	.....
	83	1096.84	1094 -	1099	1096.44	3.07E+02	220.22	9.43E+03	.....
	84	1103.95	1100 -	1107	1103.55	6.73E+02	281.21	1.28E+04	.....
	85	1120.42	1115 -	1126	1120.01	5.56E+04	618.49	2.00E+04	SC-46

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
									BI-214 TA-182
	86	1133.69	1130 -	1137	1133.28	7.00E+02	289.55	1.34E+04	.....
	87	1155.32	1150 -	1160	1154.90	6.08E+03	402.34	1.83E+04	.....
	88	1181.98	1178 -	1185	1181.55	6.44E+02	271.12	1.18E+04	.....
	89	1207.78	1203 -	1211	1207.34	1.43E+03	295.99	1.26E+04	.....
	90	1218.31	1215 -	1220	1217.86	2.32E+02	203.24	8.09E+03	.....
	91	1238.27	1233 -	1243	1237.82	2.05E+04	438.33	1.47E+04	CO-56
	92	1253.71	1249 -	1257	1253.25	1.22E+03	287.54	1.20E+04	.....
	93	1281.12	1277 -	1285	1280.65	4.83E+03	306.48	1.15E+04	.....
	94	1303.47	1300 -	1307	1303.00	4.75E+02	240.80	9.35E+03	.....
	95	1336.87	1334 -	1339	1336.38	1.96E+02	190.10	7.05E+03	.....
M	96	1377.80	1370 -	1389	1377.30	1.43E+04	319.60	8.17E+03	.....
m	97	1385.48	1370 -	1389	1384.98	2.80E+03	259.28	9.27E+03	.....
M	98	1401.65	1396 -	1420	1401.15	4.43E+03	250.18	8.07E+03	.....
m	99	1408.13	1396 -	1420	1407.63	7.53E+03	274.95	8.20E+03	EU-152
m	100	1414.46	1396 -	1420	1413.95	2.84E+02	339.41	1.30E+04	.....
	101	1425.38	1422 -	1428	1424.87	3.29E+02	215.33	8.19E+03	.....
	102	1461.49	1458 -	1464	1460.97	2.36E+02	213.50	8.10E+03	K-40
	103	1482.24	1479 -	1485	1481.71	1.87E+02	222.49	8.84E+03	.....
	104	1509.41	1504 -	1514	1508.88	6.37E+03	366.98	1.45E+04	.....
M	105	1538.67	1534 -	1547	1538.12	1.47E+03	248.29	9.49E+03	.....
m	106	1543.53	1534 -	1547	1542.99	1.42E+03	248.65	8.77E+03	.....
	107	1583.45	1578 -	1588	1582.89	2.20E+03	283.83	9.56E+03	.....
M	108	1594.80	1590 -	1603	1594.24	8.32E+02	208.01	6.63E+03	.....
m	109	1599.63	1590 -	1603	1599.07	9.55E+02	211.10	6.52E+03	.....
	110	1608.47	1605 -	1611	1607.91	1.66E+02	177.19	5.57E+03	.....
	111	1644.45	1642 -	1647	1643.87	1.30E+02	130.39	3.30E+03	.....
	112	1661.35	1654 -	1667	1660.78	3.21E+03	280.70	7.31E+03	.....
	113	1683.99	1678 -	1687	1683.40	6.36E+02	186.68	4.60E+03	.....
	114	1693.15	1688 -	1697	1692.56	8.88E+02	183.98	4.32E+03	.....
	115	1729.75	1722 -	1735	1729.16	9.64E+03	301.18	5.79E+03	.....
	116	1764.67	1757 -	1771	1764.06	4.43E+04	488.36	6.49E+03	BI-214
	117	1781.07	1778 -	1783	1780.47	1.21E+02	111.14	2.37E+03	.....
M	118	1838.47	1831 -	1853	1837.85	9.49E+02	142.10	2.69E+03	.....
m	119	1847.59	1831 -	1853	1846.96	5.97E+03	201.76	2.78E+03	.....
	120	1873.32	1868 -	1877	1872.69	5.69E+02	167.18	3.67E+03	.....
M	121	1890.35	1886 -	1901	1889.72	3.81E+02	120.79	2.42E+03	.....
m	122	1897.09	1886 -	1901	1896.45	5.02E+02	173.83	3.68E+03	.....
	123	1936.80	1931 -	1942	1936.15	4.58E+02	188.35	4.20E+03	.....
M	124	2010.99	2007 -	2021	2010.33	1.53E+02	111.48	2.06E+03	.....
m	125	2017.56	2007 -	2021	2016.90	3.19E+02	134.89	2.30E+03	.....
	126	2030.35	2022 -	2038	2029.68	2.34E+02	187.75	3.25E+03	.....
	127	2052.89	2049 -	2056	2052.22	1.49E+02	99.92	1.57E+03	.....
	128	2059.58	2056 -	2062	2058.91	9.75E+01	83.75	1.19E+03	.....
	129	2089.81	2084 -	2094	2089.14	1.54E+02	113.88	1.62E+03	.....
M	130	2109.89	2105 -	2125	2109.22	1.87E+02	91.91	1.21E+03	.....
m	131	2118.60	2105 -	2125	2117.92	3.12E+03	141.14	1.15E+03	.....
	132	2192.14	2188 -	2195	2191.45	7.24E+01	80.62	1.04E+03	.....
	133	2204.14	2197 -	2210	2203.45	1.17E+04	253.27	1.92E+03	BI-214
	134	2293.45	2286 -	2300	2292.74	7.97E+02	114.03	1.03E+03	.....
	135	2331.97	2326 -	2335	2331.25	8.81E+01	56.88	4.04E+02	.....
	136	2447.72	2441 -	2454	2446.99	3.46E+03	137.54	5.58E+02	.....
	137	2614.39	2608 -	2618	2613.65	2.17E+02	42.61	1.26E+02	TL-208

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	ROI start	ROI end	Peak Centroid	Net Peak Area	Net Area Uncertainty	Continuum Counts	Tentative Nuclide
M	138	2629.75	2627 -	2640	2629.01	1.51E+01	11.78	3.18E+01	.....
m	139	2636.61	2627 -	2640	2635.87	2.24E+01	27.26	8.95E+01	.....
M	140	2683.82	2677 -	2708	2683.08	2.26E+01	29.24	1.24E+02	.....
m	141	2694.93	2677 -	2708	2694.18	8.05E+01	34.51	1.02E+02	.....
	142	2727.63	2723 -	2731	2726.89	2.25E+01	28.18	1.09E+02	.....
	143	2769.53	2762 -	2775	2768.78	6.44E+01	36.46	1.19E+02	.....
	144	2784.89	2779 -	2791	2784.14	3.93E+01	29.62	8.53E+01	.....
	145	2878.82	2872 -	2884	2878.06	2.84E+01	22.36	4.53E+01	.....
	146	2953.11	2944 -	2960	2952.36	2.62E+01	23.35	3.96E+01	.....
	147	2978.19	2973 -	2982	2977.44	3.69E+01	19.57	3.02E+01	.....
	148	2999.08	2992 -	3006	2998.32	3.44E+01	18.67	2.13E+01	.....
	149	3053.74	3046 -	3060	3052.98	4.91E+01	20.22	2.19E+01	.....
	150	3101.18	3096 -	3106	3100.43	1.40E+01	13.07	1.20E+01	.....
	151	3213.75	3210 -	3215	3213.00	7.00E+00	5.29	0.00E+00	.....
	152	3219.36	3216 -	3221	3218.61	5.36E+00	6.08	3.29E+00	.....

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

PEAK EFFICIENCY REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	1	15.25	5.98E+03	689.95	6.08E-07	1.68E-03
M	2	32.06	8.14E+04	792.49	2.79E-03	1.68E-03
m	3	36.48	3.03E+04	738.56	5.52E-03	1.68E-03
	4	46.50	5.31E+03	752.23	1.34E-02	1.68E-03
	5	67.64	3.28E+04	867.24	2.53E-02	2.48E-03
M	6	76.30	7.20E+04	1160.58	2.74E-02	3.34E-03
m	7	80.89	2.21E+04	899.72	2.80E-02	3.80E-03
m	8	83.90	3.07E+04	798.52	2.82E-02	4.10E-03
m	9	87.21	1.92E+04	779.37	2.84E-02	4.42E-03
m	10	89.37	8.87E+03	977.94	2.85E-02	4.44E-03
	11	94.50	7.57E+03	855.54	2.85E-02	4.22E-03
	12	113.07	1.22E+03	592.96	2.74E-02	3.39E-03
	13	122.34	2.58E+03	601.61	2.66E-02	2.98E-03
M	14	143.95	2.52E+04	816.54	2.46E-02	2.33E-03
m	15	154.03	1.80E+04	801.00	2.37E-02	2.03E-03

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M	16	180.87	1.78E+03	724.41	2.15E-02	1.66E-03
m	17	186.08	4.75E+04	843.83	2.11E-02	1.65E-03
	18	196.11	1.33E+03	820.89	2.04E-02	1.64E-03
	19	204.74	1.66E+03	680.14	1.98E-02	1.63E-03
	20	210.82	3.56E+03	762.59	1.94E-02	1.63E-03
M	21	230.18	4.96E+02	613.63	1.83E-02	1.61E-03
m	22	236.01	2.91E+04	711.15	1.80E-02	1.60E-03
m	23	241.88	7.66E+04	827.22	1.77E-02	1.60E-03
M	24	253.73	4.06E+03	601.60	1.71E-02	1.58E-03
m	25	256.10	1.74E+04	645.21	1.70E-02	1.58E-03
m	26	258.88	6.10E+03	718.26	1.69E-02	1.58E-03
M	27	270.02	5.99E+04	865.43	1.64E-02	1.57E-03
m	28	274.29	5.63E+03	786.07	1.63E-02	1.56E-03
M	29	281.85	1.62E+03	459.68	1.60E-02	1.54E-03
m	30	285.17	8.16E+03	873.98	1.58E-02	1.53E-03
M	31	295.14	1.86E+05	1004.68	1.55E-02	1.48E-03
m	32	300.32	1.04E+04	561.05	1.53E-02	1.46E-03
	33	313.71	3.44E+03	642.00	1.48E-02	1.39E-03
M	34	323.77	7.56E+03	445.42	1.45E-02	1.34E-03
m	35	329.73	7.74E+03	450.58	1.43E-02	1.32E-03
	36	338.22	4.11E+03	583.07	1.41E-02	1.28E-03
	37	351.79	3.55E+05	1524.83	1.37E-02	1.21E-03
	38	371.91	1.40E+03	505.75	1.32E-02	1.11E-03
M	39	386.57	2.34E+03	446.22	1.29E-02	1.04E-03
m	40	388.81	3.51E+03	518.73	1.28E-02	1.03E-03
M	41	401.76	1.27E+04	494.55	1.25E-02	1.01E-03
m	42	404.85	8.40E+03	506.81	1.25E-02	1.01E-03
	43	426.89	4.26E+03	692.29	1.20E-02	9.84E-04
	44	445.03	2.24E+03	495.23	1.17E-02	9.65E-04
	45	454.70	2.11E+03	481.16	1.15E-02	9.55E-04
	46	461.78	1.77E+03	470.70	1.14E-02	9.48E-04
	47	469.81	8.25E+02	352.16	1.12E-02	9.40E-04
	48	474.79	8.20E+02	347.71	1.11E-02	9.35E-04
	49	480.48	2.40E+03	402.83	1.10E-02	9.29E-04
	50	487.02	2.82E+03	447.19	1.09E-02	9.23E-04
	51	502.11	4.08E+02	364.82	1.07E-02	9.07E-04
	52	510.81	5.44E+03	566.70	1.06E-02	8.98E-04
	53	533.93	1.24E+03	409.22	1.02E-02	8.75E-04
	54	543.34	4.63E+02	308.60	1.01E-02	8.65E-04
	55	572.62	4.13E+02	345.29	9.71E-03	8.36E-04
	56	580.04	1.91E+03	444.14	9.62E-03	8.28E-04
	57	598.95	2.70E+02	290.95	9.39E-03	8.09E-04
	58	609.30	2.56E+05	1134.27	9.27E-03	7.98E-04
	59	632.79	5.58E+02	351.32	9.01E-03	7.74E-04
	60	640.55	3.22E+02	307.38	8.92E-03	7.67E-04
	61	648.83	3.20E+02	299.98	8.84E-03	7.58E-04
	62	665.46	7.19E+03	408.20	8.67E-03	7.43E-04
	63	697.27	3.47E+02	328.31	8.36E-03	7.22E-04
	64	703.46	2.88E+03	382.16	8.30E-03	7.18E-04
	65	710.11	3.72E+02	324.84	8.24E-03	7.14E-04
	66	719.90	1.82E+03	369.59	8.15E-03	7.08E-04
	67	742.42	1.38E+03	358.12	7.96E-03	6.93E-04
	68	753.26	3.87E+02	277.18	7.86E-03	6.86E-04

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
	69	768.29	2.43E+04	554.56	7.74E-03	6.77E-04
M	70	782.57	2.02E+02	162.77	7.63E-03	6.67E-04
m	71	785.90	5.52E+03	310.70	7.60E-03	6.65E-04
	72	806.27	5.39E+03	480.02	7.45E-03	6.52E-04
	73	821.08	3.26E+02	282.02	7.34E-03	6.43E-04
M	74	826.43	7.18E+02	206.47	7.30E-03	6.39E-04
m	75	831.99	4.36E+03	304.19	7.26E-03	6.36E-04
	76	839.13	3.08E+03	398.92	7.21E-03	6.31E-04
	77	898.17	2.74E+02	249.09	6.82E-03	5.93E-04
	78	911.13	4.00E+02	317.79	6.75E-03	5.87E-04
	79	934.13	1.26E+04	459.58	6.61E-03	5.75E-04
	80	964.20	1.26E+03	332.58	6.44E-03	5.60E-04
	81	1052.07	1.09E+03	294.91	6.00E-03	5.15E-04
	82	1069.86	9.36E+02	291.90	5.92E-03	5.06E-04
	83	1096.84	3.07E+02	220.22	5.80E-03	4.92E-04
	84	1103.95	6.73E+02	281.21	5.77E-03	4.88E-04
	85	1120.42	5.56E+04	618.49	5.70E-03	4.80E-04
	86	1133.69	7.00E+02	289.55	5.65E-03	4.73E-04
	87	1155.32	6.08E+03	402.34	5.57E-03	4.62E-04
	88	1181.98	6.44E+02	271.12	5.47E-03	4.57E-04
	89	1207.78	1.43E+03	295.99	5.37E-03	4.69E-04
	90	1218.31	2.32E+02	203.24	5.34E-03	4.74E-04
	91	1238.27	2.05E+04	438.33	5.27E-03	4.83E-04
	92	1253.71	1.22E+03	287.54	5.22E-03	4.90E-04
	93	1281.12	4.83E+03	306.48	5.14E-03	5.03E-04
	94	1303.47	4.75E+02	240.80	5.07E-03	5.13E-04
	95	1336.87	1.96E+02	190.10	4.98E-03	5.25E-04
M	96	1377.80	1.43E+04	319.60	4.87E-03	5.08E-04
m	97	1385.48	2.80E+03	259.28	4.85E-03	5.04E-04
M	98	1401.65	4.43E+03	250.18	4.81E-03	4.98E-04
m	99	1408.13	7.53E+03	274.95	4.79E-03	4.95E-04
m	100	1414.46	2.84E+02	339.41	4.78E-03	4.92E-04
	101	1425.38	3.29E+02	215.33	4.75E-03	4.88E-04
	102	1461.49	2.36E+02	213.50	4.67E-03	4.73E-04
	103	1482.24	1.87E+02	222.49	4.63E-03	4.64E-04
	104	1509.41	6.37E+03	366.98	4.57E-03	4.53E-04
M	105	1538.67	1.47E+03	248.29	4.52E-03	4.41E-04
m	106	1543.53	1.42E+03	248.65	4.51E-03	4.39E-04
	107	1583.45	2.20E+03	283.83	4.44E-03	4.22E-04
M	108	1594.80	8.32E+02	208.01	4.42E-03	4.18E-04
m	109	1599.63	9.55E+02	211.10	4.41E-03	4.16E-04
	110	1608.47	1.66E+02	177.19	4.40E-03	4.12E-04
	111	1644.45	1.30E+02	130.39	4.34E-03	3.97E-04
	112	1661.35	3.21E+03	280.70	4.32E-03	3.90E-04
	113	1683.99	6.36E+02	186.68	4.28E-03	3.81E-04
	114	1693.15	8.88E+02	183.98	4.27E-03	3.77E-04
	115	1729.75	9.64E+03	301.18	4.23E-03	3.62E-04
	116	1764.67	4.43E+04	488.36	4.19E-03	3.47E-04
	117	1781.07	1.21E+02	111.14	4.17E-03	3.41E-04
M	118	1838.47	9.49E+02	142.10	4.11E-03	3.18E-04
m	119	1847.59	5.97E+03	201.76	4.10E-03	3.18E-04
	120	1873.32	5.69E+02	167.18	4.08E-03	3.18E-04
M	121	1890.35	3.81E+02	120.79	4.07E-03	3.18E-04

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
m	122	1897.09	5.02E+02	173.83	4.06E-03	3.18E-04
	123	1936.80	4.58E+02	188.35	4.03E-03	3.18E-04
M	124	2010.99	1.53E+02	111.48	3.99E-03	3.18E-04
m	125	2017.56	3.19E+02	134.89	3.98E-03	3.18E-04
	126	2030.35	2.34E+02	187.75	3.98E-03	3.18E-04
	127	2052.89	1.49E+02	99.92	3.97E-03	3.18E-04
	128	2059.58	9.75E+01	83.75	3.97E-03	3.18E-04
	129	2089.81	1.54E+02	113.88	3.96E-03	3.18E-04
M	130	2109.89	1.87E+02	91.91	3.95E-03	3.18E-04
m	131	2118.60	3.12E+03	141.14	3.95E-03	3.18E-04
	132	2192.14	7.24E+01	80.62	3.93E-03	3.18E-04
	133	2204.14	1.17E+04	253.27	3.93E-03	3.18E-04
	134	2293.45	7.97E+02	114.03	3.93E-03	3.18E-04
	135	2331.97	8.81E+01	56.88	3.93E-03	3.18E-04
	136	2447.72	3.46E+03	137.54	3.96E-03	3.18E-04
	137	2614.39	2.17E+02	42.61	4.05E-03	3.18E-04
M	138	2629.75	1.51E+01	11.78	4.06E-03	3.18E-04
m	139	2636.61	2.24E+01	27.26	4.07E-03	3.18E-04
M	140	2683.82	2.26E+01	29.24	4.10E-03	3.18E-04
m	141	2694.93	8.05E+01	34.51	4.11E-03	3.18E-04
	142	2727.63	2.25E+01	28.18	4.14E-03	3.18E-04
	143	2769.53	6.44E+01	36.46	4.18E-03	3.18E-04
	144	2784.89	3.93E+01	29.62	4.19E-03	3.18E-04
	145	2878.82	2.84E+01	22.36	4.30E-03	3.18E-04
	146	2953.11	2.62E+01	23.35	4.39E-03	3.18E-04
	147	2978.19	3.69E+01	19.57	4.42E-03	3.18E-04
	148	2999.08	3.44E+01	18.67	4.45E-03	3.18E-04
	149	3053.74	4.91E+01	20.22	4.53E-03	3.18E-04
	150	3101.18	1.40E+01	13.07	4.61E-03	3.18E-04
	151	3213.75	7.00E+00	5.29	4.81E-03	3.18E-04
	152	3219.36	5.36E+00	6.08	4.82E-03	3.18E-04

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

BACKGROUND SUBTRACT REPORT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Env. Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	1	15.25	5.98E+03	689.95			5.98E+03	6.90E+02
M	2	32.06	8.14E+04	792.49			8.14E+04	7.92E+02
m	3	36.48	3.03E+04	738.56			3.03E+04	7.39E+02
	4	46.50	5.31E+03	752.23	1.82E+01	2.20E+00	5.30E+03	7.52E+02
	5	67.64	3.28E+04	867.24			3.28E+04	8.67E+02
M	6	76.30	7.20E+04	1160.58			7.20E+04	1.16E+03
m	7	80.89	2.21E+04	899.72			2.21E+04	9.00E+02
m	8	83.90	3.07E+04	798.52			3.07E+04	7.99E+02
m	9	87.21	1.92E+04	779.37	1.71E+00	3.07E-01	1.92E+04	7.79E+02
m	10	89.37	8.87E+03	977.94			8.87E+03	9.78E+02
	11	94.50	7.57E+03	855.54			7.57E+03	8.56E+02
	12	113.07	1.22E+03	592.96			1.22E+03	5.93E+02
	13	122.34	2.58E+03	601.61			2.58E+03	6.02E+02
M	14	143.95	2.52E+04	816.54			2.52E+04	8.17E+02
m	15	154.03	1.80E+04	801.00			1.80E+04	8.01E+02
M	16	180.87	1.78E+03	724.41			1.78E+03	7.24E+02
m	17	186.08	4.75E+04	843.83	1.19E+01	1.99E+00	4.75E+04	8.44E+02
	18	196.11	1.33E+03	820.89			1.33E+03	8.21E+02
	19	204.74	1.66E+03	680.14			1.66E+03	6.80E+02
	20	210.82	3.56E+03	762.59			3.56E+03	7.63E+02
M	21	230.18	4.96E+02	613.63			4.96E+02	6.14E+02
m	22	236.01	2.91E+04	711.15			2.91E+04	7.11E+02
m	23	241.88	7.66E+04	827.22			7.66E+04	8.27E+02
M	24	253.73	4.06E+03	601.60			4.06E+03	6.02E+02
m	25	256.10	1.74E+04	645.21			1.74E+04	6.45E+02
m	26	258.88	6.10E+03	718.26			6.10E+03	7.18E+02
M	27	270.02	5.99E+04	865.43	4.41E-01	1.56E+00	5.99E+04	8.65E+02
m	28	274.29	5.63E+03	786.07			5.63E+03	7.86E+02
M	29	281.85	1.62E+03	459.68			1.62E+03	4.60E+02
m	30	285.17	8.16E+03	873.98			8.16E+03	8.74E+02
M	31	295.14	1.86E+05	1004.68	2.40E+00	1.48E+00	1.86E+05	1.00E+03
m	32	300.32	1.04E+04	561.05			1.04E+04	5.61E+02
	33	313.71	3.44E+03	642.00			3.44E+03	6.42E+02
M	34	323.77	7.56E+03	445.42			7.56E+03	4.45E+02
m	35	329.73	7.74E+03	450.58			7.74E+03	4.51E+02
	36	338.22	4.11E+03	583.07			4.11E+03	5.83E+02
	37	351.79	3.55E+05	1524.83	3.89E+00	1.38E+00	3.55E+05	1.52E+03
	38	371.91	1.40E+03	505.75			1.40E+03	5.06E+02
M	39	386.57	2.34E+03	446.22			2.34E+03	4.46E+02
m	40	388.81	3.51E+03	518.73			3.51E+03	5.19E+02
M	41	401.76	1.27E+04	494.55			1.27E+04	4.95E+02
m	42	404.85	8.40E+03	506.81			8.40E+03	5.07E+02
	43	426.89	4.26E+03	692.29			4.26E+03	6.92E+02
	44	445.03	2.24E+03	495.23			2.24E+03	4.95E+02
	45	454.70	2.11E+03	481.16			2.11E+03	4.81E+02
	46	461.78	1.77E+03	470.70			1.77E+03	4.71E+02
	47	469.81	8.25E+02	352.16			8.25E+02	3.52E+02
	48	474.79	8.20E+02	347.71			8.20E+02	3.48E+02
	49	480.48	2.40E+03	402.83			2.40E+03	4.03E+02
	50	487.02	2.82E+03	447.19			2.82E+03	4.47E+02
	51	502.11	4.08E+02	364.82			4.08E+02	3.65E+02
	52	510.81	5.44E+03	566.70	2.00E+01	1.38E+00	5.42E+03	5.67E+02
	53	533.93	1.24E+03	409.22			1.24E+03	4.09E+02
	54	543.34	4.63E+02	308.60			4.63E+02	3.09E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
	55	572.62	4.13E+02	345.29			4.13E+02	3.45E+02
	56	580.04	1.91E+03	444.14			1.91E+03	4.44E+02
	57	598.95	2.70E+02	290.95			2.70E+02	2.91E+02
	58	609.30	2.56E+05	1134.27	3.44E+00	9.61E-01	2.56E+05	1.13E+03
	59	632.79	5.58E+02	351.32			5.58E+02	3.51E+02
	60	640.55	3.22E+02	307.38			3.22E+02	3.07E+02
	61	648.83	3.20E+02	299.98			3.20E+02	3.00E+02
	62	665.46	7.19E+03	408.20			7.19E+03	4.08E+02
	63	697.27	3.47E+02	328.31			3.47E+02	3.28E+02
	64	703.46	2.88E+03	382.16			2.88E+03	3.82E+02
	65	710.11	3.72E+02	324.84			3.72E+02	3.25E+02
	66	719.90	1.82E+03	369.59			1.82E+03	3.70E+02
	67	742.42	1.38E+03	358.12			1.38E+03	3.58E+02
	68	753.26	3.87E+02	277.18			3.87E+02	2.77E+02
	69	768.29	2.43E+04	554.56			2.43E+04	5.55E+02
M	70	782.57	2.02E+02	162.77			2.02E+02	1.63E+02
m	71	785.90	5.52E+03	310.70			5.52E+03	3.11E+02
	72	806.27	5.39E+03	480.02			5.39E+03	4.80E+02
	73	821.08	3.26E+02	282.02			3.26E+02	2.82E+02
M	74	826.43	7.18E+02	206.47			7.18E+02	2.06E+02
m	75	831.99	4.36E+03	304.19			4.36E+03	3.04E+02
	76	839.13	3.08E+03	398.92			3.08E+03	3.99E+02
	77	898.17	2.74E+02	249.09			2.74E+02	2.49E+02
	78	911.13	4.00E+02	317.79	1.79E+00	6.93E-01	3.98E+02	3.18E+02
	79	934.13	1.26E+04	459.58			1.26E+04	4.60E+02
	80	964.20	1.26E+03	332.58			1.26E+03	3.33E+02
	81	1052.07	1.09E+03	294.91			1.09E+03	2.95E+02
	82	1069.86	9.36E+02	291.90			9.36E+02	2.92E+02
	83	1096.84	3.07E+02	220.22			3.07E+02	2.20E+02
	84	1103.95	6.73E+02	281.21			6.73E+02	2.81E+02
	85	1120.42	5.56E+04	618.49	8.11E-01	6.69E-01	5.56E+04	6.18E+02
	86	1133.69	7.00E+02	289.55			7.00E+02	2.90E+02
	87	1155.32	6.08E+03	402.34			6.08E+03	4.02E+02
	88	1181.98	6.44E+02	271.12			6.44E+02	2.71E+02
	89	1207.78	1.43E+03	295.99			1.43E+03	2.96E+02
	90	1218.31	2.32E+02	203.24			2.32E+02	2.03E+02
	91	1238.27	2.05E+04	438.33	4.41E-01	6.03E-01	2.05E+04	4.38E+02
	92	1253.71	1.22E+03	287.54			1.22E+03	2.88E+02
	93	1281.12	4.83E+03	306.48			4.83E+03	3.06E+02
	94	1303.47	4.75E+02	240.80			4.75E+02	2.41E+02
	95	1336.87	1.96E+02	190.10			1.96E+02	1.90E+02
M	96	1377.80	1.43E+04	319.60			1.43E+04	3.20E+02
m	97	1385.48	2.80E+03	259.28			2.80E+03	2.59E+02
M	98	1401.65	4.43E+03	250.18			4.43E+03	2.50E+02
m	99	1408.13	7.53E+03	274.95			7.53E+03	2.75E+02
m	100	1414.46	2.84E+02	339.41			2.84E+02	3.39E+02
	101	1425.38	3.29E+02	215.33			3.29E+02	2.15E+02
	102	1461.49	2.36E+02	213.50	2.84E+00	6.31E-01	2.33E+02	2.14E+02
	103	1482.24	1.87E+02	222.49			1.87E+02	2.22E+02
	104	1509.41	6.37E+03	366.98			6.37E+03	3.67E+02
M	105	1538.67	1.47E+03	248.29			1.47E+03	2.48E+02
m	106	1543.53	1.42E+03	248.65			1.42E+03	2.49E+02
	107	1583.45	2.20E+03	283.83			2.20E+03	2.84E+02
M	108	1594.80	8.32E+02	208.01			8.32E+02	2.08E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Subtracted Area	Subtracted Uncert.
m	109	1599.63	9.55E+02	211.10			9.55E+02	2.11E+02
	110	1608.47	1.66E+02	177.19			1.66E+02	1.77E+02
	111	1644.45	1.30E+02	130.39			1.30E+02	1.30E+02
	112	1661.35	3.21E+03	280.70			3.21E+03	2.81E+02
	113	1683.99	6.36E+02	186.68			6.36E+02	1.87E+02
	114	1693.15	8.88E+02	183.98			8.88E+02	1.84E+02
	115	1729.75	9.64E+03	301.18			9.64E+03	3.01E+02
	116	1764.67	4.43E+04	488.36	8.76E-01	5.51E-01	4.43E+04	4.88E+02
	117	1781.07	1.21E+02	111.14			1.21E+02	1.11E+02
M	118	1838.47	9.49E+02	142.10			9.49E+02	1.42E+02
m	119	1847.59	5.97E+03	201.76			5.97E+03	2.02E+02
	120	1873.32	5.69E+02	167.18			5.69E+02	1.67E+02
M	121	1890.35	3.81E+02	120.79			3.81E+02	1.21E+02
m	122	1897.09	5.02E+02	173.83			5.02E+02	1.74E+02
	123	1936.80	4.58E+02	188.35			4.58E+02	1.88E+02
M	124	2010.99	1.53E+02	111.48			1.53E+02	1.11E+02
m	125	2017.56	3.19E+02	134.89			3.19E+02	1.35E+02
	126	2030.35	2.34E+02	187.75			2.34E+02	1.88E+02
	127	2052.89	1.49E+02	99.92			1.49E+02	9.99E+01
	128	2059.58	9.75E+01	83.75			9.75E+01	8.38E+01
	129	2089.81	1.54E+02	113.88			1.54E+02	1.14E+02
M	130	2109.89	1.87E+02	91.91			1.87E+02	9.19E+01
m	131	2118.60	3.12E+03	141.14			3.12E+03	1.41E+02
	132	2192.14	7.24E+01	80.62			7.24E+01	8.06E+01
	133	2204.14	1.17E+04	253.27			1.17E+04	2.53E+02
	134	2293.45	7.97E+02	114.03			7.97E+02	1.14E+02
	135	2331.97	8.81E+01	56.88			8.81E+01	5.69E+01
	136	2447.72	3.46E+03	137.54			3.46E+03	1.38E+02
	137	2614.39	2.17E+02	42.61	2.02E+00	4.28E-01	2.15E+02	4.26E+01
M	138	2629.75	1.51E+01	11.78			1.51E+01	1.18E+01
m	139	2636.61	2.24E+01	27.26			2.24E+01	2.73E+01
M	140	2683.82	2.26E+01	29.24			2.26E+01	2.92E+01
m	141	2694.93	8.05E+01	34.51			8.05E+01	3.45E+01
	142	2727.63	2.25E+01	28.18			2.25E+01	2.82E+01
	143	2769.53	6.44E+01	36.46			6.44E+01	3.65E+01
	144	2784.89	3.93E+01	29.62			3.93E+01	2.96E+01
	145	2878.82	2.84E+01	22.36			2.84E+01	2.24E+01
	146	2953.11	2.62E+01	23.35			2.62E+01	2.34E+01
	147	2978.19	3.69E+01	19.57			3.69E+01	1.96E+01
	148	2999.08	3.44E+01	18.67			3.44E+01	1.87E+01
	149	3053.74	4.91E+01	20.22			4.91E+01	2.02E+01
	150	3101.18	1.40E+01	13.07			1.40E+01	1.31E+01
	151	3213.75	7.00E+00	5.29			7.00E+00	5.29E+00
	152	3219.36	5.36E+00	6.08			5.36E+00	6.08E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

AREA CORRECTION REPORT
REFERENCE PEAK / BKG. SUBTRACT

Peak Analysis Performed on : 8/25/2015 3:43:52PM

Ref. Peak Energy : 0.00 Reference Date :
Peak Ratio : 0.00 Uncertainty : 0.00
Background File : \\OR-GAMMA1\ApexRoot\Countroom\Data\0000025967.CNF

Corrected Area is: Original * Peak Ratio - Background

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
	1	15.25	5.98E+03	689.95			5.98E+03	6.90E+02
M	2	32.06	8.14E+04	792.49			8.14E+04	7.92E+02
m	3	36.48	3.03E+04	738.56			3.03E+04	7.39E+02
	4	46.50	5.31E+03	752.23	1.82E+01	2.20E+00	5.30E+03	7.52E+02
	5	67.64	3.28E+04	867.24			3.28E+04	8.67E+02
M	6	76.30	7.20E+04	1160.58			7.20E+04	1.16E+03
m	7	80.89	2.21E+04	899.72			2.21E+04	9.00E+02
m	8	83.90	3.07E+04	798.52			3.07E+04	7.99E+02
m	9	87.21	1.92E+04	779.37	1.71E+00	3.07E-01	1.92E+04	7.79E+02
m	10	89.37	8.87E+03	977.94			8.87E+03	9.78E+02
	11	94.50	7.57E+03	855.54			7.57E+03	8.56E+02
	12	113.07	1.22E+03	592.96			1.22E+03	5.93E+02
	13	122.34	2.58E+03	601.61			2.58E+03	6.02E+02
M	14	143.95	2.52E+04	816.54			2.52E+04	8.17E+02
m	15	154.03	1.80E+04	801.00			1.80E+04	8.01E+02
M	16	180.87	1.78E+03	724.41			1.78E+03	7.24E+02
m	17	186.08	4.75E+04	843.83	1.19E+01	1.99E+00	4.75E+04	8.44E+02
	18	196.11	1.33E+03	820.89			1.33E+03	8.21E+02
	19	204.74	1.66E+03	680.14			1.66E+03	6.80E+02
	20	210.82	3.56E+03	762.59			3.56E+03	7.63E+02
M	21	230.18	4.96E+02	613.63			4.96E+02	6.14E+02
m	22	236.01	2.91E+04	711.15			2.91E+04	7.11E+02
m	23	241.88	7.66E+04	827.22			7.66E+04	8.27E+02
M	24	253.73	4.06E+03	601.60			4.06E+03	6.02E+02
m	25	256.10	1.74E+04	645.21			1.74E+04	6.45E+02
m	26	258.88	6.10E+03	718.26			6.10E+03	7.18E+02
M	27	270.02	5.99E+04	865.43	4.41E-01	1.56E+00	5.99E+04	8.65E+02
m	28	274.29	5.63E+03	786.07			5.63E+03	7.86E+02
M	29	281.85	1.62E+03	459.68			1.62E+03	4.60E+02
m	30	285.17	8.16E+03	873.98			8.16E+03	8.74E+02
M	31	295.14	1.86E+05	1004.68	2.40E+00	1.48E+00	1.86E+05	1.00E+03
m	32	300.32	1.04E+04	561.05			1.04E+04	5.61E+02
	33	313.71	3.44E+03	642.00			3.44E+03	6.42E+02
M	34	323.77	7.56E+03	445.42			7.56E+03	4.45E+02
m	35	329.73	7.74E+03	450.58			7.74E+03	4.51E+02
	36	338.22	4.11E+03	583.07			4.11E+03	5.83E+02
	37	351.79	3.55E+05	1524.83	3.89E+00	1.38E+00	3.55E+05	1.52E+03
	38	371.91	1.40E+03	505.75			1.40E+03	5.06E+02
M	39	386.57	2.34E+03	446.22			2.34E+03	4.46E+02
m	40	388.81	3.51E+03	518.73			3.51E+03	5.19E+02
M	41	401.76	1.27E+04	494.55			1.27E+04	4.95E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
m	42	404.85	8.40E+03	506.81			8.40E+03	5.07E+02
	43	426.89	4.26E+03	692.29			4.26E+03	6.92E+02
	44	445.03	2.24E+03	495.23			2.24E+03	4.95E+02
	45	454.70	2.11E+03	481.16			2.11E+03	4.81E+02
	46	461.78	1.77E+03	470.70			1.77E+03	4.71E+02
	47	469.81	8.25E+02	352.16			8.25E+02	3.52E+02
	48	474.79	8.20E+02	347.71			8.20E+02	3.48E+02
	49	480.48	2.40E+03	402.83			2.40E+03	4.03E+02
	50	487.02	2.82E+03	447.19			2.82E+03	4.47E+02
	51	502.11	4.08E+02	364.82			4.08E+02	3.65E+02
	52	510.81	5.44E+03	566.70	2.00E+01	1.38E+00	5.42E+03	5.67E+02
	53	533.93	1.24E+03	409.22			1.24E+03	4.09E+02
	54	543.34	4.63E+02	308.60			4.63E+02	3.09E+02
	55	572.62	4.13E+02	345.29			4.13E+02	3.45E+02
	56	580.04	1.91E+03	444.14			1.91E+03	4.44E+02
	57	598.95	2.70E+02	290.95			2.70E+02	2.91E+02
	58	609.30	2.56E+05	1134.27	3.44E+00	9.61E-01	2.56E+05	1.13E+03
	59	632.79	5.58E+02	351.32			5.58E+02	3.51E+02
	60	640.55	3.22E+02	307.38			3.22E+02	3.07E+02
	61	648.83	3.20E+02	299.98			3.20E+02	3.00E+02
	62	665.46	7.19E+03	408.20			7.19E+03	4.08E+02
	63	697.27	3.47E+02	328.31			3.47E+02	3.28E+02
	64	703.46	2.88E+03	382.16			2.88E+03	3.82E+02
	65	710.11	3.72E+02	324.84			3.72E+02	3.25E+02
	66	719.90	1.82E+03	369.59			1.82E+03	3.70E+02
	67	742.42	1.38E+03	358.12			1.38E+03	3.58E+02
	68	753.26	3.87E+02	277.18			3.87E+02	2.77E+02
	69	768.29	2.43E+04	554.56			2.43E+04	5.55E+02
M	70	782.57	2.02E+02	162.77			2.02E+02	1.63E+02
m	71	785.90	5.52E+03	310.70			5.52E+03	3.11E+02
	72	806.27	5.39E+03	480.02			5.39E+03	4.80E+02
	73	821.08	3.26E+02	282.02			3.26E+02	2.82E+02
M	74	826.43	7.18E+02	206.47			7.18E+02	2.06E+02
m	75	831.99	4.36E+03	304.19			4.36E+03	3.04E+02
	76	839.13	3.08E+03	398.92			3.08E+03	3.99E+02
	77	898.17	2.74E+02	249.09			2.74E+02	2.49E+02
	78	911.13	4.00E+02	317.79	1.79E+00	6.93E-01	3.98E+02	3.18E+02
	79	934.13	1.26E+04	459.58			1.26E+04	4.60E+02
	80	964.20	1.26E+03	332.58			1.26E+03	3.33E+02
	81	1052.07	1.09E+03	294.91			1.09E+03	2.95E+02
	82	1069.86	9.36E+02	291.90			9.36E+02	2.92E+02
	83	1096.84	3.07E+02	220.22			3.07E+02	2.20E+02
	84	1103.95	6.73E+02	281.21			6.73E+02	2.81E+02
	85	1120.42	5.56E+04	618.49	8.11E-01	6.69E-01	5.56E+04	6.18E+02
	86	1133.69	7.00E+02	289.55			7.00E+02	2.90E+02
	87	1155.32	6.08E+03	402.34			6.08E+03	4.02E+02
	88	1181.98	6.44E+02	271.12			6.44E+02	2.71E+02
	89	1207.78	1.43E+03	295.99			1.43E+03	2.96E+02
	90	1218.31	2.32E+02	203.24			2.32E+02	2.03E+02
	91	1238.27	2.05E+04	438.33	4.41E-01	6.03E-01	2.05E+04	4.38E+02
	92	1253.71	1.22E+03	287.54			1.22E+03	2.88E+02
	93	1281.12	4.83E+03	306.48			4.83E+03	3.06E+02
	94	1303.47	4.75E+02	240.80			4.75E+02	2.41E+02
	95	1336.87	1.96E+02	190.10			1.96E+02	1.90E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
M	96	1377.80	1.43E+04	319.60			1.43E+04	3.20E+02
m	97	1385.48	2.80E+03	259.28			2.80E+03	2.59E+02
M	98	1401.65	4.43E+03	250.18			4.43E+03	2.50E+02
m	99	1408.13	7.53E+03	274.95			7.53E+03	2.75E+02
m	100	1414.46	2.84E+02	339.41			2.84E+02	3.39E+02
	101	1425.38	3.29E+02	215.33			3.29E+02	2.15E+02
	102	1461.49	2.36E+02	213.50	2.84E+00	6.31E-01	2.33E+02	2.14E+02
	103	1482.24	1.87E+02	222.49			1.87E+02	2.22E+02
	104	1509.41	6.37E+03	366.98			6.37E+03	3.67E+02
M	105	1538.67	1.47E+03	248.29			1.47E+03	2.48E+02
m	106	1543.53	1.42E+03	248.65			1.42E+03	2.49E+02
	107	1583.45	2.20E+03	283.83			2.20E+03	2.84E+02
M	108	1594.80	8.32E+02	208.01			8.32E+02	2.08E+02
m	109	1599.63	9.55E+02	211.10			9.55E+02	2.11E+02
	110	1608.47	1.66E+02	177.19			1.66E+02	1.77E+02
	111	1644.45	1.30E+02	130.39			1.30E+02	1.30E+02
	112	1661.35	3.21E+03	280.70			3.21E+03	2.81E+02
	113	1683.99	6.36E+02	186.68			6.36E+02	1.87E+02
	114	1693.15	8.88E+02	183.98			8.88E+02	1.84E+02
	115	1729.75	9.64E+03	301.18			9.64E+03	3.01E+02
	116	1764.67	4.43E+04	488.36	8.76E-01	5.51E-01	4.43E+04	4.88E+02
	117	1781.07	1.21E+02	111.14			1.21E+02	1.11E+02
M	118	1838.47	9.49E+02	142.10			9.49E+02	1.42E+02
m	119	1847.59	5.97E+03	201.76			5.97E+03	2.02E+02
	120	1873.32	5.69E+02	167.18			5.69E+02	1.67E+02
M	121	1890.35	3.81E+02	120.79			3.81E+02	1.21E+02
m	122	1897.09	5.02E+02	173.83			5.02E+02	1.74E+02
	123	1936.80	4.58E+02	188.35			4.58E+02	1.88E+02
M	124	2010.99	1.53E+02	111.48			1.53E+02	1.11E+02
m	125	2017.56	3.19E+02	134.89			3.19E+02	1.35E+02
	126	2030.35	2.34E+02	187.75			2.34E+02	1.88E+02
	127	2052.89	1.49E+02	99.92			1.49E+02	9.99E+01
	128	2059.58	9.75E+01	83.75			9.75E+01	8.38E+01
	129	2089.81	1.54E+02	113.88			1.54E+02	1.14E+02
M	130	2109.89	1.87E+02	91.91			1.87E+02	9.19E+01
m	131	2118.60	3.12E+03	141.14			3.12E+03	1.41E+02
	132	2192.14	7.24E+01	80.62			7.24E+01	8.06E+01
	133	2204.14	1.17E+04	253.27			1.17E+04	2.53E+02
	134	2293.45	7.97E+02	114.03			7.97E+02	1.14E+02
	135	2331.97	8.81E+01	56.88			8.81E+01	5.69E+01
	136	2447.72	3.46E+03	137.54			3.46E+03	1.38E+02
	137	2614.39	2.17E+02	42.61	2.02E+00	4.28E-01	2.15E+02	4.26E+01
M	138	2629.75	1.51E+01	11.78			1.51E+01	1.18E+01
m	139	2636.61	2.24E+01	27.26			2.24E+01	2.73E+01
M	140	2683.82	2.26E+01	29.24			2.26E+01	2.92E+01
m	141	2694.93	8.05E+01	34.51			8.05E+01	3.45E+01
	142	2727.63	2.25E+01	28.18			2.25E+01	2.82E+01
	143	2769.53	6.44E+01	36.46			6.44E+01	3.65E+01
	144	2784.89	3.93E+01	29.62			3.93E+01	2.96E+01
	145	2878.82	2.84E+01	22.36			2.84E+01	2.24E+01
	146	2953.11	2.62E+01	23.35			2.62E+01	2.34E+01
	147	2978.19	3.69E+01	19.57			3.69E+01	1.96E+01
	148	2999.08	3.44E+01	18.67			3.44E+01	1.87E+01
	149	3053.74	4.91E+01	20.22			4.91E+01	2.02E+01

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	Original Area	Orig. Area Uncertainty	Ambient Background	Backgr. Uncert.	Corrected Area	Corrected Uncert.
150	3101.18	1.40E+01	13.07			1.40E+01	1.31E+01
151	3213.75	7.00E+00	5.29			7.00E+00	5.29E+00
152	3219.36	5.36E+00	6.08			5.36E+00	6.08E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.929	1460.81	*	10.67	2.79E+01	2.57E+01
CO-57	0.817	122.06	*	85.51	7.34E+00	1.90E+00
		136.48		10.60		
CD-109	0.897	88.03	*	3.72	1.14E+03	1.95E+02
I-125	0.855	35.49	*	6.49	7.33E+03	2.24E+03
SN-126	0.979	87.57	*	37.00	1.09E+02	1.76E+01
XE-133	0.827	81.00	*	38.00	8.75E+03	1.24E+03
PM-146	0.363	453.90	*	39.94	2.78E+01	6.74E+00
		735.90		14.01		
		747.13		13.10		
PM-149	0.318	285.90	*	3.10	2.40E+07	3.46E+06
EU-155	0.314	86.50	*	30.90	1.32E+02	2.13E+01
		105.30		20.70		
TA-182	0.482	67.75	*	41.20	2.28E+02	2.32E+01
		1121.30	*	34.90	2.03E+03	1.72E+02
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	1.000	46.50	*	4.25	5.58E+02	1.06E+02
PB-211	1.000	404.84	*	2.90	1.39E+03	1.40E+02
		831.96	*	2.90	1.24E+03	1.38E+02
BI-214	0.998	609.31	*	46.30	3.57E+03	3.07E+02
		1120.29	*	15.10	3.85E+03	3.27E+02
		1764.49	*	15.80	4.00E+03	3.35E+02
		2204.22	*	4.98	3.57E+03	2.99E+02
PB-214	0.998	295.21	*	19.19	3.74E+03	3.59E+02
		351.92	*	37.19	4.15E+03	3.67E+02
RN-219	1.000	401.80	*	6.50	9.31E+02	8.33E+01

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
RA-223	0.998	323.87	*	3.88	8.01E+02	8.79E+01
RA-224	0.878	240.98	*	3.95	6.54E+03	5.94E+02
RA-226	0.997	186.21	*	3.28	4.10E+03	7.51E+03
TH-227	0.502	50.10		8.40		
		236.00	*	11.50	8.40E+02	7.75E+01
		256.20	*	6.30	9.69E+02	9.68E+01
AC-228	0.570	338.32	*	11.40	1.53E+02	2.57E+01
		911.07	*	27.70	1.27E+01	1.02E+01
		969.11		16.60		
TH-231	0.607	25.64		14.70		
		84.21	*	6.40	1.02E+03	1.50E+02
U-235	0.608	143.76	*	10.50	5.82E+02	1.06E+02
		163.35		4.70		
		205.31	*	4.70	1.07E+02	4.81E+01
NP-237	0.924	86.50	*	12.60	3.20E+02	5.16E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 3:43:52PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	15.25	6.64037E+00	5.77		
M	2	32.06	9.04746E+01	0.49		
M	6	76.30	8.00160E+01	0.81		
m	10	89.37	9.85631E+00	5.51		
	11	94.50	8.40888E+00	5.65		
	12	113.07	1.35468E+00	24.32		
m	15	154.03	1.99873E+01	2.23	Sum	
M	16	180.87	1.98303E+00	20.29	Sum	
	18	196.11	1.48050E+00	30.80		
	20	210.82	3.95987E+00	10.70	Sum	
M	21	230.18	5.51265E-01	61.84	Sum	
M	24	253.73	4.51005E+00	7.41	Sum	
m	26	258.88	6.77694E+00	5.89		

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
M	27	270.02	6.65929E+01	0.72	Sum	
m	28	274.29	6.25645E+00	6.98	Tol.	CS-136
M	29	281.85	1.80066E+00	14.18	Sum	
m	32	300.32	1.15243E+01	2.70	Tol.	GA-67 PB-212
	33	313.71	3.82368E+00	9.33		
m	35	329.73	8.60295E+00	2.91	Sum	
	38	371.91	1.55996E+00	18.01	Sum	
M	39	386.57	2.60046E+00	9.53	Sum	
m	40	388.81	3.90539E+00	7.38	Sum	
	43	426.89	4.73329E+00	8.13		
	44	445.03	2.49075E+00	11.05		
	46	461.78	1.96367E+00	13.32	Sum	
	47	469.81	9.16511E-01	21.35	Sum	
	48	474.79	9.11146E-01	21.20	Sum	
	49	480.48	2.66385E+00	8.40	Sum	
	50	487.02	3.13487E+00	7.93	Tol.	LA-140
	51	502.11	4.52917E-01	44.75	Sum	
	52	510.81	6.02208E+00	5.23	Sum	
	53	533.93	1.37746E+00	16.50		
	54	543.34	5.14565E-01	33.32	Sum	
	55	572.62	4.58657E-01	41.82		
	56	580.04	2.12679E+00	11.60	Sum	
	57	598.95	3.00254E-01	53.83	Sum	
	59	632.79	6.20447E-01	31.46	Sum	
	60	640.55	3.58071E-01	47.69	Sum	
	61	648.83	3.55624E-01	46.86		
	62	665.46	7.98530E+00	2.84	Tol.	CE-143
	63	697.27	3.86108E-01	47.24	Sum	
	64	703.46	3.19667E+00	6.64	Sum	
	65	710.11	4.13694E-01	43.62	Sum	
	66	719.90	2.02519E+00	10.14		
	67	742.42	1.53197E+00	12.99	D-Esc	
	68	753.26	4.29769E-01	35.83	Sum	
	69	768.29	2.70498E+01	1.14		
M	70	782.57	2.24655E-01	40.25		
m	71	785.90	6.13002E+00	2.82		
	72	806.27	5.99102E+00	4.45	Sum	
	73	821.08	3.61711E-01	43.32		
M	74	826.43	7.97916E-01	14.38		
	76	839.13	3.41880E+00	6.48		
	77	898.17	3.04244E-01	45.48	Tol.	Y-88
	79	934.13	1.39796E+01	1.83		
	80	964.20	1.39467E+00	13.25	Tol.	EU-152
	81	1052.07	1.21163E+00	13.52		
	82	1069.86	1.03980E+00	15.60		
	83	1096.84	3.40748E-01	35.90	Sum	
	84	1103.95	7.47894E-01	20.89		
	86	1133.69	7.78019E-01	20.68		
	87	1155.32	6.75881E+00	3.31	Sum	
	88	1181.98	7.15803E-01	21.04	D-Esc	
	89	1207.78	1.59431E+00	10.31	Sum	

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	90	1218.31	2.57664E-01	43.82	Sum	
	91	1238.27	2.27478E+01	1.07	Tol.	CO-56
	92	1253.71	1.35433E+00	11.79	S-Esc	
	93	1281.12	5.36701E+00	3.17		
	94	1303.47	5.27593E-01	25.36		
	95	1336.87	2.17407E-01	48.58		
M	96	1377.80	1.58533E+01	1.12		
m	97	1385.48	3.11399E+00	4.63		
M	98	1401.65	4.92598E+00	2.82		
m	99	1408.13	8.37222E+00	1.82	Tol.	EU-152
m	100	1414.46	3.15616E-01	59.74		
	101	1425.38	3.65095E-01	32.77		
	103	1482.24	2.07347E-01	59.61		
	104	1509.41	7.08036E+00	2.88		
M	105	1538.67	1.63041E+00	8.46		
m	106	1543.53	1.57487E+00	8.77		
	107	1583.45	2.43922E+00	6.46	Sum	
M	108	1594.80	9.24056E-01	12.51		
m	109	1599.63	1.06108E+00	11.05		
	110	1608.47	1.84413E-01	53.38		
	111	1644.45	1.44934E-01	49.98		
	112	1661.35	3.56188E+00	4.38		
	113	1683.99	7.06142E-01	14.69		
	114	1693.15	9.86761E-01	10.36	S-Esc	
	115	1729.75	1.07080E+01	1.56	Sum	
	117	1781.07	1.34712E-01	45.83		
M	118	1838.47	1.05476E+00	7.48		
m	119	1847.59	6.63453E+00	1.69	Sum	
	120	1873.32	6.31938E-01	14.70		
M	121	1890.35	4.23835E-01	15.83		
m	122	1897.09	5.57670E-01	17.32		
	123	1936.80	5.09324E-01	20.54		
M	124	2010.99	1.70448E-01	36.34		
m	125	2017.56	3.54016E-01	21.17		
	126	2030.35	2.60276E-01	40.07		
	127	2052.89	1.65774E-01	33.49		
	128	2059.58	1.08319E-01	42.96	Sum	
	129	2089.81	1.70588E-01	37.09		
M	130	2109.89	2.07746E-01	24.58		
m	131	2118.60	3.47203E+00	2.26		
	132	2192.14	8.04778E-02	55.66		
	134	2293.45	8.85543E-01	7.15	Sum	
	135	2331.97	9.78621E-02	32.29		
	136	2447.72	3.84221E+00	1.99		
	137	2614.39	2.38719E-01	9.92	Tol.	TL-208
M	138	2629.75	1.67424E-02	39.09		
m	139	2636.61	2.48449E-02	60.95		
M	140	2683.82	2.50669E-02	64.80		
m	141	2694.93	8.94090E-02	21.44		
	142	2727.63	2.50000E-02	62.62		
	143	2769.53	7.15054E-02	28.32		
	144	2784.89	4.37127E-02	37.64		
	145	2878.82	3.15251E-02	39.40		
	146	2953.11	2.90942E-02	44.59		

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
147	2978.19	4.10043E-02	26.52		
148	2999.08	3.81728E-02	27.18		
149	3053.74	5.45278E-02	20.60		
150	3101.18	1.55556E-02	46.67		
151	3213.75	7.77778E-03	37.80		
152	3219.36	5.95238E-03	56.77		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE IDENTIFICATION REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
K-40	0.92	1460.81	*	10.67	2.79E+01	2.57E+01
CO-57	0.81	122.06	*	85.51	7.34E+00	1.90E+00
		136.48		10.60		
CD-109	0.89	88.03	*	3.72	1.14E+03	1.95E+02
I-125	0.85	35.49	*	6.49	7.33E+03	2.24E+03
SN-126	0.97	87.57	*	37.00	1.09E+02	1.76E+01
XE-133	0.82	81.00	*	38.00	8.75E+03	1.24E+03
PM-146	0.36	453.90	*	39.94	2.78E+01	6.74E+00
		735.90		14.01		
		747.13		13.10		
PM-149	0.31	285.90	*	3.10	2.40E+07	3.46E+06
EU-155	0.31	86.50	*	30.90	1.32E+02	2.13E+01
		105.30		20.70		
TA-182	0.48	67.75	*	41.20	2.28E+02	2.32E+01
		1121.30	*	34.90	2.03E+03	1.72E+02
		1189.05		16.23		
		1221.41		26.98		
		1231.02		11.44		
PB-210	1.00	46.50	*	4.25	5.58E+02	1.06E+02
PB-211	1.00	404.84	*	2.90	1.39E+03	1.40E+02
		831.96	*	2.90	1.24E+03	1.38E+02
BI-214	0.99	609.31	*	46.30	3.57E+03	3.07E+02

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

Nuclide Name	Id Confidence	Energy (keV)		Yield(%)	Activity (pCi/grams)	Activity Uncertainty
BI-214	0.99	1120.29	*	15.10	3.85E+03	3.27E+02
		1764.49	*	15.80	4.00E+03	3.35E+02
		2204.22	*	4.98	3.57E+03	2.99E+02
PB-214	0.99	295.21	*	19.19	3.74E+03	3.59E+02
		351.92	*	37.19	4.15E+03	3.67E+02
RN-219	1.00	401.80	*	6.50	9.31E+02	8.33E+01
RA-223	0.99	323.87	*	3.88	8.01E+02	8.79E+01
RA-224	0.87	240.98	*	3.95	6.54E+03	5.94E+02
RA-226	0.99	186.21	*	3.28	4.10E+03	7.51E+03
TH-227	0.50	50.10		8.40		
		236.00	*	11.50	8.40E+02	7.75E+01
		256.20	*	6.30	9.69E+02	9.68E+01
AC-228	0.57	338.32	*	11.40	1.53E+02	2.57E+01
		911.07	*	27.70	1.27E+01	1.02E+01
		969.11		16.60		
TH-231	0.60	25.64		14.70		
		84.21	*	6.40	1.02E+03	1.50E+02
U-235	0.60	143.76	*	10.50	5.82E+02	1.06E+02
		163.35		4.70		
		205.31	*	4.70	1.07E+02	4.81E+01
NP-237	0.92	86.50	*	12.60	3.20E+02	5.16E+01

* = Energy line found in the spectrum.
\- = Manually added nuclide.
? = Manually edited nuclide.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.30
Errors quoted at 2.000sigma

INTERFERENCE CORRECTED REPORT

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	K-40	0.929	2.79E+01	2.57E+01	
	CO-57	0.817	7.34E+00	1.90E+00	
X	NB-95M	0.661			
?	CD-109	0.897	1.14E+03	1.95E+02	
	I-125	0.855	7.33E+03	2.24E+03	
?	SN-126	0.979	1.09E+02	1.76E+01	

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Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
	XE-133	0.827	8.75E+03	1.24E+03	
	PM-146	0.363	2.78E+01	6.74E+00	
	PM-149	0.318	2.40E+07	3.46E+06	
?	EU-155	0.314	1.32E+02	2.13E+01	
X	TM-171	0.874			
	TA-182	0.482	2.26E+02	2.30E+01	
	PB-210	1.000	5.58E+02	1.06E+02	
	PB-211	1.000	1.31E+03	9.84E+01	
	BI-214	0.998	3.63E+03	1.58E+02	
	PB-214	0.998	3.94E+03	2.56E+02	
	RN-219	1.000	9.31E+02	8.33E+01	
	RA-223	0.998	8.01E+02	8.79E+01	
	RA-224	0.878	6.54E+03	5.94E+02	
	RA-226	0.997	4.10E+03	7.51E+03	
	TH-227	0.502	8.90E+02	6.05E+01	
	AC-228	0.570	3.18E+01	9.49E+00	
	TH-231	0.607	1.02E+03	1.50E+02	
	U-235	0.608	1.88E+02	4.38E+01	
?	NP-237	0.924	3.20E+02	5.16E+01	

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000sigma

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

UNIDENTIFIED PEAKS

Peak Locate Performed on : 8/25/2015 3:43:52PM
Peak Locate From Channel : 1
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	1	15.25	6.64037E+00	5.77		
M	2	32.06	9.04746E+01	0.49		
M	6	76.30	8.00160E+01	0.81		
m	10	89.37	9.85631E+00	5.51		
	11	94.50	8.40888E+00	5.65		
	12	113.07	1.35468E+00	24.32		
m	15	154.03	1.99873E+01	2.23	Sum	
M	16	180.87	1.98303E+00	20.29	Sum	
	18	196.11	1.48050E+00	30.80		
	20	210.82	3.95987E+00	10.70	Sum	
M	21	230.18	5.51265E-01	61.84	Sum	
M	24	253.73	4.51005E+00	7.41	Sum	
m	26	258.88	6.77694E+00	5.89		
M	27	270.02	6.65929E+01	0.72	Sum	
m	28	274.29	6.25645E+00	6.98	Tol.	CS-136
M	29	281.85	1.80066E+00	14.18	Sum	
m	32	300.32	1.15243E+01	2.70	Tol.	GA-67 PB-212
	33	313.71	3.82368E+00	9.33		
m	35	329.73	8.60295E+00	2.91	Sum	
	38	371.91	1.55996E+00	18.01	Sum	
M	39	386.57	2.60046E+00	9.53	Sum	
m	40	388.81	3.90539E+00	7.38	Sum	
	43	426.89	4.73329E+00	8.13		
	44	445.03	2.49075E+00	11.05		
	46	461.78	1.96367E+00	13.32	Sum	
	47	469.81	9.16511E-01	21.35	Sum	
	48	474.79	9.11146E-01	21.20	Sum	
	49	480.48	2.66385E+00	8.40	Sum	
	50	487.02	3.13487E+00	7.93	Tol.	LA-140
	51	502.11	4.52917E-01	44.75	Sum	
	52	510.81	6.02208E+00	5.23	Sum	
	53	533.93	1.37746E+00	16.50		

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	54	543.34	5.14565E-01	33.32	Sum	
	55	572.62	4.58657E-01	41.82		
	56	580.04	2.12679E+00	11.60	Sum	
	57	598.95	3.00254E-01	53.83	Sum	
	59	632.79	6.20447E-01	31.46	Sum	
	60	640.55	3.58071E-01	47.69	Sum	
	61	648.83	3.55624E-01	46.86		
	62	665.46	7.98530E+00	2.84	Tol.	CE-143
	63	697.27	3.86108E-01	47.24	Sum	
	64	703.46	3.19667E+00	6.64	Sum	
	65	710.11	4.13694E-01	43.62	Sum	
	66	719.90	2.02519E+00	10.14		
	67	742.42	1.53197E+00	12.99	D-Esc	
	68	753.26	4.29769E-01	35.83	Sum	
	69	768.29	2.70498E+01	1.14		
M	70	782.57	2.24655E-01	40.25		
m	71	785.90	6.13002E+00	2.82		
	72	806.27	5.99102E+00	4.45	Sum	
	73	821.08	3.61711E-01	43.32		
M	74	826.43	7.97916E-01	14.38		
	76	839.13	3.41880E+00	6.48		
	77	898.17	3.04244E-01	45.48	Tol.	Y-88
	79	934.13	1.39796E+01	1.83		
	80	964.20	1.39467E+00	13.25	Tol.	EU-152
	81	1052.07	1.21163E+00	13.52		
	82	1069.86	1.03980E+00	15.60		
	83	1096.84	3.40748E-01	35.90	Sum	
	84	1103.95	7.47894E-01	20.89		
	86	1133.69	7.78019E-01	20.68		
	87	1155.32	6.75881E+00	3.31	Sum	
	88	1181.98	7.15803E-01	21.04	D-Esc	
	89	1207.78	1.59431E+00	10.31	Sum	
	90	1218.31	2.57664E-01	43.82	Sum	
	91	1238.27	2.27478E+01	1.07	Tol.	CO-56
	92	1253.71	1.35433E+00	11.79	S-Esc	
	93	1281.12	5.36701E+00	3.17		
	94	1303.47	5.27593E-01	25.36		
	95	1336.87	2.17407E-01	48.58		
M	96	1377.80	1.58533E+01	1.12		
m	97	1385.48	3.11399E+00	4.63		
M	98	1401.65	4.92598E+00	2.82		
m	99	1408.13	8.37222E+00	1.82	Tol.	EU-152
m	100	1414.46	3.15616E-01	59.74		
	101	1425.38	3.65095E-01	32.77		

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
	103	1482.24	2.07347E-01	59.61		
	104	1509.41	7.08036E+00	2.88		
M	105	1538.67	1.63041E+00	8.46		
m	106	1543.53	1.57487E+00	8.77		
	107	1583.45	2.43922E+00	6.46	Sum	
M	108	1594.80	9.24056E-01	12.51		
m	109	1599.63	1.06108E+00	11.05		
	110	1608.47	1.84413E-01	53.38		
	111	1644.45	1.44934E-01	49.98		
	112	1661.35	3.56188E+00	4.38		
	113	1683.99	7.06142E-01	14.69		
	114	1693.15	9.86761E-01	10.36	S-Esc	
	115	1729.75	1.07080E+01	1.56	Sum	
	117	1781.07	1.34712E-01	45.83		
M	118	1838.47	1.05476E+00	7.48		
m	119	1847.59	6.63453E+00	1.69	Sum	
	120	1873.32	6.31938E-01	14.70		
M	121	1890.35	4.23835E-01	15.83		
m	122	1897.09	5.57670E-01	17.32		
	123	1936.80	5.09324E-01	20.54		
M	124	2010.99	1.70448E-01	36.34		
m	125	2017.56	3.54016E-01	21.17		
	126	2030.35	2.60276E-01	40.07		
	127	2052.89	1.65774E-01	33.49		
	128	2059.58	1.08319E-01	42.96	Sum	
	129	2089.81	1.70588E-01	37.09		
M	130	2109.89	2.07746E-01	24.58		
m	131	2118.60	3.47203E+00	2.26		
	132	2192.14	8.04778E-02	55.66		
	134	2293.45	8.85543E-01	7.15	Sum	
	135	2331.97	9.78621E-02	32.29		
	136	2447.72	3.84221E+00	1.99		
	137	2614.39	2.38719E-01	9.92	Tol.	TL-208
M	138	2629.75	1.67424E-02	39.09		
m	139	2636.61	2.48449E-02	60.95		
M	140	2683.82	2.50669E-02	64.80		
m	141	2694.93	8.94090E-02	21.44		
	142	2727.63	2.50000E-02	62.62		
	143	2769.53	7.15054E-02	28.32		
	144	2784.89	4.37127E-02	37.64		
	145	2878.82	3.15251E-02	39.40		
	146	2953.11	2.90942E-02	44.59		
	147	2978.19	4.10043E-02	26.52		
	148	2999.08	3.81728E-02	27.18		
	149	3053.74	5.45278E-02	20.60		

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FEEBRIS1D-7 084-085

Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
150	3101.18	1.55556E-02	46.67		
151	3213.75	7.77778E-03	37.80		
152	3219.36	5.95238E-03	56.77		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BE-7	477.59		10.42	-2.23E+02	4.27E+01	4.27E+01
+	NA-22	1274.54		99.94	1.85E+00	3.82E+00	3.82E+00
+	NA-24	1368.53		99.99	5.69E+15	1.48E+15	1.20E+16
		2754.09		99.86	-3.98E+13		1.48E+15
+	AL-26	1808.65		99.76	-1.68E+00	2.71E+00	2.71E+00
+	K-40	1460.81	*	10.67	2.79E+01	4.20E+01	4.20E+01
+	@ AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26
+	TI-44	67.88		94.40	8.91E+01	2.86E+00	2.99E+00
		78.34		96.00	6.14E+01		2.86E+00
+	SC-46	889.25		99.98	-4.16E-01	5.11E+00	5.11E+00
		1120.51		99.99	7.57E+02		1.58E+01
+	V-48	983.52		99.98	-5.90E+00	1.50E+01	1.50E+01
		1312.10		97.50	-1.03E+01		1.50E+01
+	CR-51	320.08		9.83	7.19E+00	6.94E+01	6.94E+01
+	MN-54	834.83		99.97	-2.51E+01	4.62E+00	4.62E+00
+	CO-56	846.75		99.96	-4.94E-01	4.88E+00	4.88E+00
		1037.75		14.03	6.38E+00		3.45E+01
		1238.25		67.00	4.57E+02		1.66E+01
		1771.40		15.51	8.39E+00		3.03E+01
		2598.48		16.90	1.16E+00		4.93E+00
+	CO-57	122.06	*	85.51	7.34E+00	2.78E+00	2.78E+00
		136.48		10.60	-9.33E+00		2.80E+01
+	CO-58	810.76		99.40	-1.56E+00	5.18E+00	5.18E+00
+	FE-59	1099.22		56.50	-1.61E+01	1.08E+01	1.08E+01
		1291.56		43.20	-9.02E+00		1.36E+01
+	CO-60	1173.22		100.00	3.72E-01	3.74E+00	3.76E+00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	CO-60	1332.49		100.00	4.36E-01	3.74E+00	3.74E+00
+	ZN-65	1115.52		50.75	-2.09E+00	9.47E+00	9.47E+00
+	GA-67	93.31		35.70	4.81E+03	6.64E+03	6.64E+03
		208.95		2.24	1.78E+05		1.35E+05
		300.22		16.00	-5.45E+04		2.21E+04
+	SE-75	121.11		16.70	1.12E-01	5.53E+00	1.79E+01
		136.00		59.20	-2.54E+00		5.53E+00
		264.65		59.80	6.48E+00		6.17E+00
		279.53		25.20	-5.67E+00		1.49E+01
		400.65		11.40	2.97E+02		4.35E+01
+	RB-82	776.52		13.00	-1.40E+00	6.35E+01	6.35E+01
+	RB-83	520.41		46.00	-3.60E+00	7.73E+00	7.73E+00
		529.64		30.30	-1.82E+00		1.19E+01
		552.65		16.40	1.41E+00		2.20E+01
+	KR-85	513.99		0.43	-1.37E+03	6.77E+02	6.77E+02
+	SR-85	513.99		99.27	-8.40E+00	4.15E+00	4.15E+00
+	Y-88	898.02		93.40	4.12E+00	4.21E+00	5.34E+00
		1836.01		99.38	1.49E+01		4.21E+00
+	NB-93M	16.57		9.43	6.65E+05	2.48E+05	2.48E+05
+	NB-94	702.63		100.00	1.82E+01	3.79E+00	3.79E+00
		871.10		100.00	-3.91E-02		3.80E+00
+	NB-95	765.79		99.81	3.21E+02	1.22E+01	1.22E+01
+	NB-95M	235.69	*	25.00	1.87E+05	1.95E+04	1.95E+04
+	ZR-95	724.18		43.70	-3.76E-01	8.73E+00	1.10E+01
		756.72		55.30	1.90E+00		8.73E+00
+	MO-99	181.06		6.20	2.95E+04	9.08E+04	1.71E+05
		739.58		12.80	-3.01E+04		9.08E+04
		778.00		4.50	-8.06E+04		2.55E+05
+	RU-103	497.08		89.00	-8.31E-01	5.49E+00	5.49E+00
+	RU-106	621.84		9.80	-3.02E+01	3.58E+01	3.58E+01
+	AG-108M	433.93		89.90	4.47E-01	3.43E+00	3.43E+00
		614.37		90.40	6.00E-01		4.90E+00
		722.95		90.50	-3.50E-01		3.89E+00
+	CD-109	88.03	*	3.72	1.14E+03	2.19E+02	2.19E+02
+	AG-110M	657.75		93.14	1.46E-01	3.79E+00	3.79E+00
		677.61		10.53	-1.71E+01		3.36E+01
		706.67		16.46	5.93E+01		2.48E+01
		763.93		21.98	2.73E-02		2.17E+01
		884.67		71.63	-2.17E+00		5.90E+00
		1384.27		23.94	4.38E+00		2.18E+01
+	CD-113M	263.70		0.02	1.40E+04	1.34E+04	1.34E+04
+	SN-113	255.12		1.93	3.66E+03	5.96E+00	2.47E+02
		391.69		64.90	1.42E+00		5.96E+00
+	TE123M	159.00		84.10	4.62E+00	4.38E+00	4.38E+00
+	SB-124	602.71		97.87	-1.41E+00	5.10E+00	5.10E+00
		645.85		7.26	-5.75E+00		6.55E+01
		722.78		11.10	-4.13E+00		4.59E+01
		1691.02		49.00	-1.09E+00		1.03E+01

Analysis Report for 1508002-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	I-125	35.49	*	6.49	7.33E+03	5.30E+02	5.30E+02
+	SB-125	176.33		6.89	-3.36E+00	1.22E+01	4.54E+01
		427.89		29.33	6.47E+01		1.22E+01
		463.38		10.35	7.31E+01		3.03E+01
		600.56		17.80	-5.47E+00		1.97E+01
		635.90		11.32	-2.51E+01		2.98E+01
+	SB-126	414.70		83.30	-4.92E+00	2.02E+01	2.41E+01
		666.33		99.60	3.08E+02		2.57E+01
		695.00		99.60	-1.44E+00		2.02E+01
		720.50		53.80	1.52E+02		4.09E+01
+	SN-126	87.57	*	37.00	1.09E+02	2.10E+01	2.10E+01
+	SB-127	473.00		25.00	-2.04E+03	3.06E+03	3.89E+03
		685.20		35.70	3.48E+03		3.06E+03
		783.80		14.70	8.79E+04		9.79E+03
+	I-129	29.78		57.00	-4.78E+03	5.53E+01	5.53E+01
		33.60		13.20	-4.29E+03		1.33E+02
		39.58		7.52	-3.41E+02		7.58E+01
+	I-131	284.30		6.05	4.60E+03	6.05E+01	9.19E+02
		364.48		81.20	2.54E+01		6.05E+01
		636.97		7.26	-6.53E+02		7.29E+02
		722.89		1.80	-2.82E+02		3.14E+03
+	TE-132	49.72		13.10	6.19E+04	3.39E+03	2.14E+04
		228.16		88.00	1.55E+03		3.39E+03
+	BA-133	81.00		33.00	-3.94E+00	5.63E+00	6.79E+00
		302.84		17.80	-3.42E+01		2.02E+01
		356.01		60.00	-4.57E+02		5.63E+00
+	I-133	529.87		86.30	-2.50E+10	4.93E+11	4.93E+11
+	XE-133	81.00	*	38.00	8.75E+03	1.47E+03	1.47E+03
+	CS-134	563.23		8.38	5.28E+00	4.17E+00	3.46E+01
		569.32		15.43	-6.37E+00		1.90E+01
		604.70		97.60	-1.01E+00		7.96E+00
		795.84		85.40	-1.74E+00		4.17E+00
		801.93		8.73	-4.53E+02		4.53E+01
+	CS-135	268.24		16.00	-5.46E+01	2.78E+01	2.78E+01
+	@ I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26
	@	1260.41		28.60	1.00E+26		1.00E+26
	@	1678.03		9.54	1.00E+26		1.00E+26
+	CS-136	153.22		7.46	2.76E+03	2.02E+01	2.45E+02
		163.89		4.61	9.41E+01		3.54E+02
		176.55		13.56	4.66E+01		1.24E+02
		273.65		12.66	-2.52E+03		1.57E+02
		340.57		48.50	2.12E+01		3.74E+01
		818.50		99.70	-6.21E+00		2.02E+01
		1048.07		79.60	8.30E+00		2.58E+01
		1235.34		19.70	3.52E+03		2.11E+02
+	CS-137	661.65		85.12	1.42E+00	4.03E+00	4.03E+00
+	LA-138	788.74		34.00	1.13E+02	5.84E+00	1.28E+01
		1435.80		66.00	7.27E+00		5.84E+00
+	CE-139	165.85		80.35	3.71E-01	4.38E+00	4.38E+00

Analysis Report for 1508002-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	BA-140	162.64		6.70	-6.06E+01	6.57E+01	2.55E+02
		304.84		4.50	5.70E+02		4.26E+02
		423.70		3.20	-2.53E+03		6.08E+02
		437.55		2.00	4.57E+02		8.74E+02
		537.32		25.00	1.45E+01		6.57E+01
+	LA-140	328.77		20.50	1.03E+03	2.80E+01	1.01E+02
		487.03		45.50	1.97E+02		3.95E+01
		815.85		23.50	-3.05E+01		8.70E+01
		1596.49		95.49	1.22E+02		2.80E+01
+	CE-141	145.44		48.40	2.41E+02	1.39E+01	1.39E+01
+	CE-143	57.36		11.80	-4.61E+07	1.97E+08	2.09E+08
		293.26		42.00	7.42E+09		1.97E+08
		664.55		5.20	1.04E+10		9.12E+08
+	CE-144	133.54		10.80	-1.40E+01	2.68E+01	2.68E+01
+	PM-144	476.78		42.00	-3.87E+01	3.57E+00	7.41E+00
		618.01		98.60	3.23E+00		3.68E+00
		696.49		99.49	3.61E+00		3.57E+00
+	PM-145	36.85		21.70	1.32E+03	2.70E+01	5.25E+01
		37.36		39.70	6.79E+02		2.70E+01
		42.30		15.10	3.21E+00		2.96E+01
		72.40		2.31	-1.00E+03		8.35E+01
+	PM-146	453.90	*	39.94	2.78E+01	1.03E+01	1.03E+01
		735.90		14.01	-3.23E+00		2.41E+01
		747.13		13.10	1.12E+00		2.62E+01
+	ND-147	91.11		28.90	-1.07E+03	6.51E+01	6.51E+01
		531.02		13.10	-3.37E+01		1.66E+02
+	PM-149	285.90	*	3.10	2.40E+07	4.45E+06	4.45E+06
+	EU-152	121.78		20.50	2.44E+01	1.22E+01	1.22E+01
		244.69		5.40	-3.71E+03		6.67E+01
		344.27		19.13	2.92E+01		1.70E+01
		778.89		9.20	-3.11E+00		3.77E+01
		964.01		10.40	1.07E+02		3.97E+01
		1085.78		7.22	1.44E+01		5.04E+01
		1112.02		9.60	4.52E+00		3.91E+01
		1407.95		14.94	4.01E+02		4.25E+01
+	GD-153	97.43		31.30	2.10E+01	8.27E+00	8.27E+00
		103.18		22.20	-1.37E+01		1.11E+01
+	EU-154	123.07		40.50	1.14E+01	6.27E+00	6.27E+00
		723.30		19.70	-1.62E+00		1.80E+01
		873.19		11.50	2.95E+01		3.36E+01
		996.32		10.30	-5.10E+00		3.69E+01
		1004.76		17.90	4.31E+00		2.10E+01
		1274.45		35.50	5.13E+00		1.06E+01
+	EU-155	86.50	*	30.90	1.32E+02	1.11E+01	2.55E+01
		105.30		20.70	-3.15E+00		1.11E+01
+	EU-156	811.77		10.40	-3.89E+01	1.48E+02	1.48E+02
		1153.47		7.20	3.54E+03		3.27E+02
		1230.71		8.90	8.79E+01		1.80E+02
+	HO-166M	184.41		72.60	3.64E+01	5.55E+00	5.55E+00

Analysis Report for 1508002-11

FEEBRIS1D-7 084-085

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
	HO-166M	280.45		29.60	-4.02E+00	5.55E+00	1.06E+01
		410.94		11.10	6.32E-01		2.98E+01
		711.69		54.10	3.57E+00		6.21E+00
+	TM-171	66.72	*	0.14	5.70E+04	2.50E+03	2.50E+03
+	HF-172	81.75		4.52	-9.95E+02	2.30E+01	5.24E+01
		125.81		11.30	-1.22E+01		2.30E+01
+	LU-172	181.53		20.60	-7.05E+03	1.63E+02	4.31E+02
		810.06		16.63	-1.90E+02		6.32E+02
		912.12		15.25	5.83E+02		7.35E+02
		1093.66		62.50	-3.08E+01		1.63E+02
+	LU-173	100.72		5.24	-1.19E+02	2.32E+01	4.55E+01
		272.11		21.20	2.10E+02		2.32E+01
+	HF-175	343.40		84.00	9.10E+00	5.32E+00	5.32E+00
+	LU-176	88.34		13.30	2.40E+02	3.29E+00	2.11E+01
		201.83		86.00	2.01E+00		3.77E+00
		306.78		94.00	8.57E-01		3.29E+00
+	TA-182	67.75	*	41.20	2.28E+02	1.00E+01	1.00E+01
		1121.30	*	34.90	2.03E+03		2.41E+01
		1189.05		16.23	-3.23E+00		2.73E+01
		1221.41		26.98	-1.74E+00		1.66E+01
		1231.02		11.44	2.32E+01		3.92E+01
+	IR-192	308.46		29.68	-1.58E-01	8.37E+00	1.38E+01
		468.07		48.10	-2.28E+00		8.37E+00
+	HG-203	279.19		77.30	-2.48E+00	6.50E+00	6.50E+00
+	BI-207	569.67		97.72	-9.79E-01	2.91E+00	2.91E+00
		1063.62		74.90	-2.26E+00		4.85E+00
+	TL-208	583.14		30.22	1.40E+00	3.24E+00	1.19E+01
		860.37		4.48	1.41E+01		8.37E+01
		2614.66		35.85	7.31E+00		3.24E+00
+	BI-210M	262.00		45.00	2.30E+00	6.95E+00	6.95E+00
		300.00		23.00	-4.04E+01		1.63E+01
+	PB-210	46.50	*	4.25	5.58E+02	1.42E+02	1.42E+02
+	PB-211	404.84	*	2.90	1.39E+03	2.12E+02	2.12E+02
		831.96	*	2.90	1.24E+03		2.14E+02
+	BI-212	727.17		11.80	-3.00E+00	2.83E+01	2.83E+01
		1620.62		2.75	-8.01E+00		1.34E+02
+	PB-212	238.63		44.60	-1.08E+03	9.09E+00	9.09E+00
		300.09		3.41	-2.72E+02		1.10E+02
+	BI-214	609.31	*	46.30	3.57E+03	1.17E+01	1.17E+01
		1120.29	*	15.10	3.85E+03		4.59E+01
		1764.49	*	15.80	4.00E+03		3.71E+01
		2204.22	*	4.98	3.57E+03		6.69E+01
+	PB-214	295.21	*	19.19	3.74E+03	1.83E+01	4.18E+01
		351.92	*	37.19	4.15E+03		1.83E+01
+	RN-219	401.80	*	6.50	9.31E+02	9.41E+01	9.41E+01
+	RA-223	323.87	*	3.88	8.01E+02	2.22E+02	2.22E+02
+	RA-224	240.98	*	3.95	6.54E+03	2.59E+02	2.59E+02
+	RA-225	40.00		31.00	-3.59E+02	7.97E+01	7.97E+01

00656

Analysis Report for 1508002-11

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	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	RA-226	186.21	*	3.28	4.10E+03	2.10E+02	2.10E+02
+	TH-227	50.10		8.40	1.00E+02	3.48E+01	3.48E+01
		236.00	*	11.50	8.40E+02		8.75E+01
		256.20	*	6.30	9.69E+02		1.01E+02
+	AC-228	338.32	*	11.40	1.53E+02	1.67E+01	3.49E+01
		911.07	*	27.70	1.27E+01		1.67E+01
		969.11		16.60	4.32E-01		2.28E+01
+	TH-230	48.44		16.90	-9.09E+01	1.86E+01	1.86E+01
		62.85		4.60	6.85E+00		4.40E+01
		67.67		0.37	2.28E+04		7.65E+02
+	PA-231	283.67		1.60	1.08E+03	1.55E+02	2.16E+02
		302.67		2.30	-2.63E+02		1.55E+02
+	TH-231	25.64		14.70	-5.95E+02	1.22E+02	5.92E+02
		84.21	*	6.40	1.02E+03		1.22E+02
+	PA-233	311.98		38.60	-1.77E+00	1.87E+01	1.87E+01
+	PA-234	131.20		20.40	-1.11E+00	1.29E+01	1.29E+01
		733.99		8.80	1.34E+01		3.79E+01
		946.00		12.00	1.18E+01		3.15E+01
+	PA-234M	1001.03		0.92	-1.30E+02	4.08E+02	4.08E+02
+	TH-234	63.29		3.80	8.23E+00	5.29E+01	5.29E+01
+	U-235	143.76	*	10.50	5.82E+02	6.37E+01	9.14E+01
		163.35		4.70	-1.51E+01		6.37E+01
		205.31	*	4.70	1.07E+02		7.14E+01
+	NP-237	86.50	*	12.60	3.20E+02	6.17E+01	6.17E+01
+	NP-239	106.10		22.70	-2.23E+05	1.30E+05	1.30E+05
		228.18		10.70	1.77E+05		3.86E+05
		277.60		14.10	-1.10E+05		2.88E+05
+	AM-241	59.54		35.90	-3.07E+00	5.86E+00	5.86E+00
+	AM-243	74.67		66.00	-8.54E+01	3.93E+00	3.93E+00
+	CM-243	209.75		3.29	2.56E+02	2.22E+01	9.82E+01
		228.14		10.60	1.37E+01		2.99E+01
		277.60		14.00	-8.45E+00		2.22E+01

\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction
? = CAUTION: MDA value is inconsistent with Currie MDA at 95% confidence level

Analysis Report for 1508002-11

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NUCLIDE MDA REPORT

Nuclide Library Used : \\OR-GAMMA1\ApexRoot\Countroom\Library\TMA2.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BE-7	477.59		10.42	4.27E+01	4.27E+01	-2.23E+02	2.13E+01
	NA-22	1274.54		99.94	3.82E+00	3.82E+00	1.85E+00	1.89E+00
	NA-24	1368.53		99.99	1.20E+16	1.48E+15	5.69E+15	5.96E+15
		2754.09		99.86	1.48E+15		-3.98E+13	6.76E+14
	AL-26	1808.65		99.76	2.71E+00	2.71E+00	-1.68E+00	1.34E+00
+	K-40	1460.81	*	10.67	4.20E+01	4.20E+01	2.79E+01	2.08E+01
@	AR-41	1293.64		99.16	1.00E+26	1.00E+26	1.00E+26	1.00E+20
	TI-44	67.88		94.40	2.99E+00	2.86E+00	8.91E+01	1.49E+00
		78.34		96.00	2.86E+00		6.14E+01	1.43E+00
	SC-46	889.25		99.98	5.11E+00	5.11E+00	-4.16E-01	2.54E+00
		1120.51		99.99	1.58E+01		7.57E+02	7.88E+00
	V-48	983.52		99.98	1.50E+01	1.50E+01	-5.90E+00	7.44E+00
		1312.10		97.50	1.50E+01		-1.03E+01	7.43E+00
	CR-51	320.08		9.83	6.94E+01	6.94E+01	7.19E+00	3.46E+01
	MN-54	834.83		99.97	4.62E+00	4.62E+00	-2.51E+01	2.30E+00
	CO-56	846.75		99.96	4.88E+00	4.88E+00	-4.94E-01	2.43E+00
		1037.75		14.03	3.45E+01		6.38E+00	1.71E+01
		1238.25		67.00	1.66E+01		4.57E+02	8.27E+00
		1771.40		15.51	3.03E+01		8.39E+00	1.50E+01
		2598.48		16.90	4.93E+00		1.16E+00	2.31E+00
+	CO-57	122.06	*	85.51	2.78E+00	2.78E+00	7.34E+00	1.39E+00
		136.48		10.60	2.80E+01		-9.33E+00	1.40E+01
	CO-58	810.76		99.40	5.18E+00	5.18E+00	-1.56E+00	2.58E+00
	FE-59	1099.22		56.50	1.08E+01	1.08E+01	-1.61E+01	5.36E+00
		1291.56		43.20	1.36E+01		-9.02E+00	6.73E+00
	CO-60	1173.22		100.00	3.76E+00	3.74E+00	3.72E-01	1.87E+00
		1332.49		100.00	3.74E+00		4.36E-01	1.85E+00
	ZN-65	1115.52		50.75	9.47E+00	9.47E+00	-2.09E+00	4.71E+00
	GA-67	93.31		35.70	6.64E+03	6.64E+03	4.81E+03	3.31E+03
		208.95		2.24	1.35E+05		1.78E+05	6.73E+04
		300.22		16.00	2.21E+04		-5.45E+04	1.10E+04
	SE-75	121.11		16.70	1.79E+01	5.53E+00	1.12E-01	8.95E+00
		136.00		59.20	5.53E+00		-2.54E+00	2.76E+00
		264.65		59.80	6.17E+00		6.48E+00	3.07E+00
		279.53		25.20	1.49E+01		-5.67E+00	7.45E+00
		400.65		11.40	4.35E+01		2.97E+02	2.17E+01
	RB-82	776.52		13.00	6.35E+01	6.35E+01	-1.40E+00	3.15E+01
	RB-83	520.41		46.00	7.73E+00	7.73E+00	-3.60E+00	3.84E+00
		529.64		30.30	1.19E+01		-1.82E+00	5.90E+00
		552.65		16.40	2.20E+01		1.41E+00	1.09E+01
	KR-85	513.99		0.43	6.77E+02	6.77E+02	-1.37E+03	3.37E+02
	SR-85	513.99		99.27	4.15E+00	4.15E+00	-8.40E+00	2.07E+00
	Y-88	898.02		93.40	5.34E+00	4.21E+00	4.12E+00	2.66E+00
		1836.01		99.38	4.21E+00		1.49E+01	2.08E+00
	NB-93M	16.57		9.43	2.48E+05	2.48E+05	6.65E+05	1.24E+05

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	NB-94	702.63		100.00	3.79E+00	3.79E+00	1.82E+01	1.89E+00
		871.10		100.00	3.80E+00		-3.91E-02	1.89E+00
	NB-95	765.79		99.81	1.22E+01	1.22E+01	3.21E+02	6.08E+00
	NB-95M	235.69	*	25.00	1.95E+04	1.95E+04	1.87E+05	9.74E+03
	ZR-95	724.18		43.70	1.10E+01	8.73E+00	-3.76E-01	5.47E+00
		756.72		55.30	8.73E+00		1.90E+00	4.34E+00
	MO-99	181.06		6.20	1.71E+05	9.08E+04	2.95E+04	8.51E+04
		739.58		12.80	9.08E+04		-3.01E+04	4.51E+04
		778.00		4.50	2.55E+05		-8.06E+04	1.27E+05
	RU-103	497.08		89.00	5.49E+00	5.49E+00	-8.31E-01	2.73E+00
	RU-106	621.84		9.80	3.58E+01	3.58E+01	-3.02E+01	1.78E+01
	AG-108M	433.93		89.90	3.43E+00	3.43E+00	4.47E-01	1.71E+00
		614.37		90.40	4.90E+00		6.00E-01	2.44E+00
		722.95		90.50	3.89E+00		-3.50E-01	1.94E+00
+	CD-109	88.03	*	3.72	2.19E+02	2.19E+02	1.14E+03	1.10E+02
	AG-110M	657.75		93.14	3.79E+00	3.79E+00	1.46E-01	1.89E+00
		677.61		10.53	3.36E+01		-1.71E+01	1.67E+01
		706.67		16.46	2.48E+01		5.93E+01	1.23E+01
		763.93		21.98	2.17E+01		2.73E-02	1.08E+01
		884.67		71.63	5.90E+00		-2.17E+00	2.93E+00
		1384.27		23.94	2.18E+01		4.38E+00	1.08E+01
	CD-113M	263.70		0.02	1.34E+04	1.34E+04	1.40E+04	6.68E+03
	SN-113	255.12		1.93	2.47E+02	5.96E+00	3.66E+03	1.23E+02
		391.69		64.90	5.96E+00		1.42E+00	2.97E+00
	TE123M	159.00		84.10	4.38E+00	4.38E+00	4.62E+00	2.19E+00
	SB-124	602.71		97.87	5.10E+00	5.10E+00	-1.41E+00	2.54E+00
		645.85		7.26	6.55E+01		-5.75E+00	3.26E+01
		722.78		11.10	4.59E+01		-4.13E+00	2.28E+01
		1691.02		49.00	1.03E+01		-1.09E+00	5.09E+00
+	I-125	35.49	*	6.49	5.30E+02	5.30E+02	7.33E+03	2.65E+02
	SB-125	176.33		6.89	4.54E+01	1.22E+01	-3.36E+00	2.26E+01
		427.89		29.33	1.22E+01		6.47E+01	6.09E+00
		463.38		10.35	3.03E+01		7.31E+01	1.51E+01
		600.56		17.80	1.97E+01		-5.47E+00	9.79E+00
		635.90		11.32	2.98E+01		-2.51E+01	1.48E+01
	SB-126	414.70		83.30	2.41E+01	2.02E+01	-4.92E+00	1.20E+01
		666.33		99.60	2.57E+01		3.08E+02	1.28E+01
		695.00		99.60	2.02E+01		-1.44E+00	1.01E+01
		720.50		53.80	4.09E+01		1.52E+02	2.03E+01
+	SN-126	87.57	*	37.00	2.10E+01	2.10E+01	1.09E+02	1.05E+01
	SB-127	473.00		25.00	3.89E+03	3.06E+03	-2.04E+03	1.93E+03
		685.20		35.70	3.06E+03		3.48E+03	1.52E+03
		783.80		14.70	9.79E+03		8.79E+04	4.87E+03
	I-129	29.78		57.00	5.53E+01	5.53E+01	-4.78E+03	2.76E+01
		33.60		13.20	1.33E+02		-4.29E+03	6.62E+01
		39.58		7.52	7.58E+01		-3.41E+02	3.78E+01
	I-131	284.30		6.05	9.19E+02	6.05E+01	4.60E+03	4.58E+02
		364.48		81.20	6.05E+01		2.54E+01	3.01E+01
		636.97		7.26	7.29E+02		-6.53E+02	3.63E+02
		722.89		1.80	3.14E+03		-2.82E+02	1.56E+03
	TE-132	49.72		13.10	2.14E+04	3.39E+03	6.19E+04	1.07E+04
		228.16		88.00	3.39E+03		1.55E+03	1.69E+03
	BA-133	81.00		33.00	6.79E+00	5.63E+00	-3.94E+00	3.38E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	BA-133	302.84		17.80	2.02E+01	5.63E+00	-3.42E+01	1.01E+01
		356.01		60.00	5.63E+00		-4.57E+02	2.81E+00
	I-133	529.87		86.30	4.93E+11	4.93E+11	-2.50E+10	2.45E+11
+	XE-133	81.00	*	38.00	1.47E+03	1.47E+03	8.75E+03	7.36E+02
	CS-134	563.23		8.38	3.46E+01	4.17E+00	5.28E+00	1.72E+01
		569.32		15.43	1.90E+01		-6.37E+00	9.42E+00
		604.70		97.60	7.96E+00		-1.01E+00	3.97E+00
		795.84		85.40	4.17E+00		-1.74E+00	2.07E+00
		801.93		8.73	4.53E+01		-4.53E+02	2.25E+01
	CS-135	268.24		16.00	2.78E+01	2.78E+01	-5.46E+01	1.39E+01
@	I-135	1131.51		22.50	1.00E+26	1.00E+26	1.00E+26	1.00E+20
@		1260.41		28.60	1.00E+26		1.00E+26	1.00E+20
@		1678.03		9.54	1.00E+26		1.00E+26	1.00E+20
	CS-136	153.22		7.46	2.45E+02	2.02E+01	2.76E+03	1.22E+02
		163.89		4.61	3.54E+02		9.41E+01	1.76E+02
		176.55		13.56	1.24E+02		4.66E+01	6.17E+01
		273.65		12.66	1.57E+02		-2.52E+03	7.81E+01
		340.57		48.50	3.74E+01		2.12E+01	1.86E+01
		818.50		99.70	2.02E+01		-6.21E+00	1.00E+01
		1048.07		79.60	2.58E+01		8.30E+00	1.28E+01
		1235.34		19.70	2.11E+02		3.52E+03	1.05E+02
	CS-137	661.65		85.12	4.03E+00	4.03E+00	1.42E+00	2.00E+00
	LA-138	788.74		34.00	1.28E+01	5.84E+00	1.13E+02	6.35E+00
		1435.80		66.00	5.84E+00		7.27E+00	2.89E+00
	CE-139	165.85		80.35	4.38E+00	4.38E+00	3.71E-01	2.18E+00
	BA-140	162.64		6.70	2.55E+02	6.57E+01	-6.06E+01	1.27E+02
		304.84		4.50	4.26E+02		5.70E+02	2.12E+02
		423.70		3.20	6.08E+02		-2.53E+03	3.03E+02
		437.55		2.00	8.74E+02		4.57E+02	4.35E+02
		537.32		25.00	6.57E+01		1.45E+01	3.27E+01
	LA-140	328.77		20.50	1.01E+02	2.80E+01	1.03E+03	5.05E+01
		487.03		45.50	3.95E+01		1.97E+02	1.96E+01
		815.85		23.50	8.70E+01		-3.05E+01	4.33E+01
		1596.49		95.49	2.80E+01		1.22E+02	1.39E+01
	CE-141	145.44		48.40	1.39E+01	1.39E+01	2.41E+02	6.93E+00
	CE-143	57.36		11.80	2.09E+08	1.97E+08	-4.61E+07	1.04E+08
		293.26		42.00	1.97E+08		7.42E+09	9.83E+07
		664.55		5.20	9.12E+08		1.04E+10	4.54E+08
	CE-144	133.54		10.80	2.68E+01	2.68E+01	-1.40E+01	1.33E+01
	PM-144	476.78		42.00	7.41E+00	3.57E+00	-3.87E+01	3.69E+00
		618.01		98.60	3.68E+00		3.23E+00	1.83E+00
		696.49		99.49	3.57E+00		3.61E+00	1.78E+00
	PM-145	36.85		21.70	5.25E+01	2.70E+01	1.32E+03	2.62E+01
		37.36		39.70	2.70E+01		6.79E+02	1.34E+01
		42.30		15.10	2.96E+01		3.21E+00	1.48E+01
		72.40		2.31	8.35E+01		-1.00E+03	4.16E+01
+	PM-146	453.90	*	39.94	1.03E+01	1.03E+01	2.78E+01	5.11E+00
		735.90		14.01	2.41E+01		-3.23E+00	1.20E+01
		747.13		13.10	2.62E+01		1.12E+00	1.30E+01
	ND-147	91.11		28.90	6.51E+01	6.51E+01	-1.07E+03	3.25E+01
		531.02		13.10	1.66E+02		-3.37E+01	8.24E+01
+	PM-149	285.90	*	3.10	4.45E+06	4.45E+06	2.40E+07	2.22E+06
	EU-152	121.78		20.50	1.22E+01	1.22E+01	2.44E+01	6.11E+00

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
	EU-152	244.69		5.40	6.67E+01	1.22E+01	-3.71E+03	3.32E+01
		344.27		19.13	1.70E+01		2.92E+01	8.46E+00
		778.89		9.20	3.77E+01		-3.11E+00	1.87E+01
		964.01		10.40	3.97E+01		1.07E+02	1.97E+01
		1085.78		7.22	5.04E+01		1.44E+01	2.50E+01
		1112.02		9.60	3.91E+01		4.52E+00	1.94E+01
		1407.95		14.94	4.25E+01		4.01E+02	2.11E+01
	GD-153	97.43		31.30	8.27E+00	8.27E+00	2.10E+01	4.13E+00
		103.18		22.20	1.11E+01		-1.37E+01	5.55E+00
	EU-154	123.07		40.50	6.27E+00	6.27E+00	1.14E+01	3.13E+00
		723.30		19.70	1.80E+01		-1.62E+00	8.95E+00
		873.19		11.50	3.36E+01		2.95E+01	1.67E+01
		996.32		10.30	3.69E+01		-5.10E+00	1.83E+01
		1004.76		17.90	2.10E+01		4.31E+00	1.04E+01
		1274.45		35.50	1.06E+01		5.13E+00	5.24E+00
+	EU-155	86.50	*	30.90	2.55E+01	1.11E+01	1.32E+02	1.27E+01
		105.30		20.70	1.11E+01		-3.15E+00	5.52E+00
	EU-156	811.77		10.40	1.48E+02	1.48E+02	-3.89E+01	7.37E+01
		1153.47		7.20	3.27E+02		3.54E+03	1.63E+02
		1230.71		8.90	1.80E+02		8.79E+01	8.90E+01
	HO-166M	184.41		72.60	5.55E+00	5.55E+00	3.64E+01	2.77E+00
		280.45		29.60	1.06E+01		-4.02E+00	5.28E+00
		410.94		11.10	2.98E+01		6.32E-01	1.49E+01
		711.69		54.10	6.21E+00		3.57E+00	3.09E+00
	TM-171	66.72	*	0.14	2.50E+03	2.50E+03	5.70E+04	1.25E+03
	HF-172	81.75		4.52	5.24E+01	2.30E+01	-9.95E+02	2.61E+01
		125.81		11.30	2.30E+01		-1.22E+01	1.15E+01
	LU-172	181.53		20.60	4.31E+02	1.63E+02	-7.05E+03	2.15E+02
		810.06		16.63	6.32E+02		-1.90E+02	3.14E+02
		912.12		15.25	7.35E+02		5.83E+02	3.65E+02
		1093.66		62.50	1.63E+02		-3.08E+01	8.11E+01
	LU-173	100.72		5.24	4.55E+01	2.32E+01	-1.19E+02	2.27E+01
		272.11		21.20	2.32E+01		2.10E+02	1.16E+01
	HF-175	343.40		84.00	5.32E+00	5.32E+00	9.10E+00	2.65E+00
	LU-176	88.34		13.30	2.11E+01	3.29E+00	2.40E+02	1.05E+01
		201.83		86.00	3.77E+00		2.01E+00	1.88E+00
		306.78		94.00	3.29E+00		8.57E-01	1.64E+00
+	TA-182	67.75	*	41.20	1.00E+01	1.00E+01	2.28E+02	4.99E+00
		1121.30	*	34.90	2.41E+01		2.03E+03	1.20E+01
		1189.05		16.23	2.73E+01		-3.23E+00	1.35E+01
		1221.41		26.98	1.66E+01		-1.74E+00	8.23E+00
		1231.02		11.44	3.92E+01		2.32E+01	1.94E+01
	IR-192	308.46		29.68	1.38E+01	8.37E+00	-1.58E-01	6.89E+00
		468.07		48.10	8.37E+00		-2.28E+00	4.16E+00
	HG-203	279.19		77.30	6.50E+00	6.50E+00	-2.48E+00	3.24E+00
	BI-207	569.67		97.72	2.91E+00	2.91E+00	-9.79E-01	1.45E+00
		1063.62		74.90	4.85E+00		-2.26E+00	2.41E+00
	TL-208	583.14		30.22	1.19E+01	3.24E+00	1.40E+00	5.91E+00
		860.37		4.48	8.37E+01		1.41E+01	4.16E+01
		2614.66		35.85	3.24E+00		7.31E+00	1.56E+00
	BI-210M	262.00		45.00	6.95E+00	6.95E+00	2.30E+00	3.46E+00
		300.00		23.00	1.63E+01		-4.04E+01	8.15E+00
+	PB-210	46.50	*	4.25	1.42E+02	1.42E+02	5.58E+02	7.10E+01

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	Nuclide Name	Energy (keV)		Yield(%)	Line MDA (pCi/grams)	Nuclide MDA (pCi/grams)	Activity (pCi/grams)	Dec. Level (pCi/grams)
+	PB-211	404.84	*	2.90	2.12E+02	2.12E+02	1.39E+03	1.06E+02
		831.96	*	2.90	2.14E+02		1.24E+03	1.07E+02
	BI-212	727.17		11.80	2.83E+01	2.83E+01	-3.00E+00	1.41E+01
		1620.62		2.75	1.34E+02		-8.01E+00	6.65E+01
	PB-212	238.63		44.60	9.09E+00	9.09E+00	-1.08E+03	4.54E+00
		300.09		3.41	1.10E+02		-2.72E+02	5.49E+01
+	BI-214	609.31	*	46.30	1.17E+01	1.17E+01	3.57E+03	5.85E+00
		1120.29	*	15.10	4.59E+01		3.85E+03	2.28E+01
		1764.49	*	15.80	3.71E+01		4.00E+03	1.84E+01
		2204.22	*	4.98	6.69E+01		3.57E+03	3.30E+01
+	PB-214	295.21	*	19.19	4.18E+01	1.83E+01	3.74E+03	2.09E+01
		351.92	*	37.19	1.83E+01		4.15E+03	9.16E+00
+	RN-219	401.80	*	6.50	9.41E+01	9.41E+01	9.31E+02	4.69E+01
+	RA-223	323.87	*	3.88	2.22E+02	2.22E+02	8.01E+02	1.11E+02
+	RA-224	240.98	*	3.95	2.59E+02	2.59E+02	6.54E+03	1.29E+02
	RA-225	40.00		31.00	7.97E+01	7.97E+01	-3.59E+02	3.97E+01
+	RA-226	186.21	*	3.28	2.10E+02	2.10E+02	4.10E+03	1.05E+02
+	TH-227	50.10		8.40	3.48E+01	3.48E+01	1.00E+02	1.73E+01
		236.00	*	11.50	8.75E+01		8.40E+02	4.37E+01
		256.20	*	6.30	1.01E+02		9.69E+02	5.02E+01
+	AC-228	338.32	*	11.40	3.49E+01	1.67E+01	1.53E+02	1.74E+01
		911.07	*	27.70	1.67E+01		1.27E+01	8.29E+00
		969.11		16.60	2.28E+01		4.32E-01	1.13E+01
	TH-230	48.44		16.90	1.86E+01	1.86E+01	-9.09E+01	9.28E+00
		62.85		4.60	4.40E+01		6.85E+00	2.19E+01
		67.67		0.37	7.65E+02		2.28E+04	3.82E+02
	PA-231	283.67		1.60	2.16E+02	1.55E+02	1.08E+03	1.08E+02
		302.67		2.30	1.55E+02		-2.63E+02	7.74E+01
+	TH-231	25.64		14.70	5.92E+02	1.22E+02	-5.95E+02	2.95E+02
		84.21	*	6.40	1.22E+02		1.02E+03	6.10E+01
	PA-233	311.98		38.60	1.87E+01	1.87E+01	-1.77E+00	9.31E+00
	PA-234	131.20		20.40	1.29E+01	1.29E+01	-1.11E+00	6.42E+00
		733.99		8.80	3.79E+01		1.34E+01	1.89E+01
		946.00		12.00	3.15E+01		1.18E+01	1.57E+01
	PA-234M	1001.03		0.92	4.08E+02	4.08E+02	-1.30E+02	2.02E+02
	TH-234	63.29		3.80	5.29E+01	5.29E+01	8.23E+00	2.64E+01
+	U-235	143.76	*	10.50	9.14E+01	6.37E+01	5.82E+02	4.57E+01
		163.35		4.70	6.37E+01		-1.51E+01	3.18E+01
		205.31	*	4.70	7.14E+01		1.07E+02	3.56E+01
+	NP-237	86.50	*	12.60	6.17E+01	6.17E+01	3.20E+02	3.08E+01
	NP-239	106.10		22.70	1.30E+05	1.30E+05	-2.23E+05	6.49E+04
		228.18		10.70	3.86E+05		1.77E+05	1.93E+05
		277.60		14.10	2.88E+05		-1.10E+05	1.43E+05
	AM-241	59.54		35.90	5.86E+00	5.86E+00	-3.07E+00	2.92E+00
	AM-243	74.67		66.00	3.93E+00	3.93E+00	-8.54E+01	1.96E+00
	CM-243	209.75		3.29	9.82E+01	2.22E+01	2.56E+02	4.90E+01
		228.14		10.60	2.99E+01		1.37E+01	1.49E+01
		277.60		14.00	2.22E+01		-8.45E+00	1.11E+01

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\+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
\> = MDA value not calculated
@ = Half-life too short to be able to perform the decay correction

No Action Level results available for reporting purposes.

DATA REVIEW COMMENTS REPORT

Creation Date	***Comment***	***User***

No Data Review Comments Entered.

****
***** S P E C T R A L D A T A R E P O R T *****
****

Sample Title: FEEBRIS1D-7 084-085

Elapsed Live time: 900
Elapsed Real Time: 1056

Channel								
1:	0	0	0	0	0	19	316	7014
9:	9145	8940	10170	12880	14915	12517	21481	19223
17:	11657	15042	11340	9463	9622	10850	9911	9189
25:	9208	9428	10952	10646	10082	10291	18759	59505
33:	30733	11131	10723	21142	22652	11782	8750	8553
41:	8350	8643	8572	8639	8801	11498	13064	9080
49:	8632	10490	9390	8854	9600	9283	8936	8875
57:	8970	9061	9070	9323	9221	9481	9917	9881
65:	9972	10202	21536	31870	12992	10212	10488	11004
73:	12262	17104	27607	19073	38960	21340	14325	14821
81:	20991	14268	18159	29152	16019	13429	21201	18481
89:	14343	15015	11796	10796	11477	15449	17068	11638
97:	11517	12577	11125	11039	10215	10506	10634	10414
105:	10025	10342	10279	10329	10645	10693	10831	11048
113:	11688	11140	10635	10874	10943	10696	10770	10749
121:	10776	12587	12151	11118	11210	11433	11364	11473
129:	11758	11771	11831	12014	11903	12145	12153	12085
137:	12413	12455	12662	12625	12801	12919	17435	27858
145:	17259	12985	12926	12853	13152	13360	13431	13475
153:	15098	23084	17047	13471	13153	13621	13591	12514
161:	12264	12332	12186	11973	11704	11906	11760	11882
169:	11586	11597	11649	11497	11556	11283	11557	11512
177:	11585	11474	11920	11896	11934	11871	11849	12108
185:	18159	40341	22783	12524	11601	11618	11465	11321
193:	11287	11342	11492	11652	11496	11161	10942	11043
201:	10952	10715	10597	10866	10587	10223	9762	9639
209:	9579	10925	11063	9697	9544	9390	9254	9270
217:	9106	9012	9193	9045	9205	8953	8751	8920
225:	8714	8700	8619	8768	8742	8867	8607	8661
233:	8507	9054	16798	27763	13138	9189	9051	8889
241:	27447	55935	19619	8694	7775	7464	7531	7340
249:	7632	8105	7646	7578	9022	9900	10370	17488
257:	11443	8907	9973	7937	7037	6752	6915	6764
265:	6675	6727	6424	9190	24489	22591	23523	13421
273:	8289	8447	8285	6814	6382	6366	6222	6477
281:	6740	6620	8119	8261	7277	8641	6950	6366
289:	6080	6091	6055	6263	6589	34334	116045	49463
297:	9801	6278	8389	11910	7555	8451	8415	7198
305:	6395	5448	5518	5225	5309	5202	5238	5919
313:	5962	6089	5975	5311	5136	5130	5143	5085
321:	5100	5133	7731	9802	5951	5296	5203	5542
329:	8203	9969	6059	5156	5598	6484	5737	5138
337:	5822	8459	6552	5258	5206	5500	5473	5285
345:	4998	4865	5013	5215	5935	17373	121128	185742
353:	43612	8125	5135	4616	4643	4369	4468	4422
361:	4343	4455	4307	4298	4287	4239	4205	4275

369:	4207	4336	4649	4714	4409	4177	4072	4091

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Channel								
377:	4200	4074	4190	4234	4198	4163	4100	4110
385:	4252	5109	5272	5314	5809	4480	4248	4097
393:	4154	4210	4102	4352	4316	4212	4187	4661
401:	8946	10816	5709	6907	8516	5439	4384	4281
409:	4360	4223	4294	4373	4165	4113	4378	4290
417:	4203	4207	4206	4363	4330	4251	4210	4252
425:	4134	4744	6000	4528	3782	3674	3595	3562
433:	3513	3388	3341	3364	3266	3288	3396	3150
441:	3142	3144	3092	3685	4290	3437	2999	3027
449:	2977	3010	2983	3001	3073	3727	3764	3058
457:	2885	2815	2811	2951	3407	3522	3034	2801
465:	2722	2800	2756	2721	3049	3067	2719	2652
473:	2621	3075	2819	2752	2610	2580	2790	3822
481:	3302	2607	2534	2468	2636	3148	3843	2967
489:	2492	2389	2422	2374	2345	2358	2283	2375
497:	2254	2267	2222	2218	2299	2452	2195	2218
505:	2155	2177	2226	2422	2976	3522	3538	3015
513:	2558	2314	2058	2167	2130	2103	2115	2151
521:	2041	2066	2085	2183	2160	2085	2093	2152
529:	2143	1963	2091	2102	2611	2581	2150	2265
537:	2261	2111	2120	2012	1976	2148	2330	2236
545:	2041	2091	2081	2035	2030	1975	1885	2015
553:	2009	1998	1918	1939	1927	1895	1991	2021
561:	1993	1948	1896	1963	2001	1942	1870	1971
569:	1978	2007	1997	2122	2160	1973	1892	1970
577:	1948	1978	2438	3102	2234	2021	2048	1984
585:	1853	1912	1800	1849	1924	1834	1798	1814
593:	1820	1891	1834	1878	1904	1959	1938	1896
601:	1841	1817	1875	1928	1949	1992	4495	49770
609:	135683	65294	9524	2514	1805	1862	1930	1890
617:	1887	1721	1675	1713	1736	1681	1623	1672
625:	1548	1704	1630	1560	1629	1597	1702	1754
633:	1707	1696	1560	1534	1544	1586	1629	1644
641:	1603	1619	1554	1532	1545	1511	1591	1531
649:	1584	1454	1491	1380	1460	1471	1457	1456
657:	1379	1526	1427	1502	1478	1427	1478	2518
665:	5033	3624	1677	1486	1421	1422	1348	1390
673:	1486	1377	1376	1443	1415	1366	1408	1417
681:	1388	1474	1526	1445	1417	1392	1485	1381
689:	1355	1335	1321	1360	1358	1405	1378	1427
697:	1578	1473	1402	1357	1407	2038	2636	2179
705:	1703	1418	1366	1477	1438	1509	1451	1347
713:	1293	1263	1315	1356	1352	1449	2000	2130
721:	1529	1438	1351	1364	1335	1332	1342	1338
729:	1300	1331	1319	1285	1313	1385	1309	1310
737:	1273	1282	1263	1409	1561	1751	1620	1401
745:	1351	1255	1313	1332	1251	1324	1188	1409
753:	1445	1366	1275	1231	1276	1267	1256	1239
761:	1210	1282	1227	1263	1554	2282	5923	12631
769:	7273	2213	1340	1357	1305	1279	1246	1293
777:	1245	1234	1343	1236	1233	1342	1262	1651
785:	3222	3555	1934	1363	1316	1263	1222	1269
793:	1154	1249	1261	1186	1238	1252	1342	1310

801:	1255	1283	1223	1439	2710	3811	2386	1424

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Channel								
809:	1253	1198	1216	1241	1227	1291	1308	1295
817:	1255	1272	1237	1467	1588	1391	1245	1251
825:	1442	1550	1417	1305	1260	1527	2723	3192
833:	1862	1326	1219	1282	1342	2204	2669	1758
841:	1319	1278	1264	1260	1258	1269	1306	1244
849:	1256	1249	1320	1247	1244	1259	1219	1252
857:	1309	1280	1313	1276	1329	1225	1263	1252
865:	1354	1268	1302	1215	1248	1227	1300	1327
873:	1335	1399	1261	1340	1278	1273	1343	1336
881:	1271	1302	1257	1284	1342	1361	1298	1291
889:	1339	1315	1330	1358	1360	1335	1306	1361
897:	1420	1507	1429	1340	1404	1330	1354	1504
905:	1360	1343	1368	1330	1364	1441	1426	1335
913:	1293	1207	1271	1273	1198	1206	1133	1122
921:	1190	1137	1217	1108	1131	1160	1179	1142
929:	1190	1190	1099	1806	5001	6788	3277	1422
937:	1139	1153	1113	1181	1140	1121	1154	1154
945:	1106	1071	1084	1146	1123	1060	1086	1113
953:	1080	1116	1065	1144	1118	1064	1127	1066
961:	1056	1141	1451	1800	1344	1103	1095	1111
969:	1144	1030	997	1053	999	1089	1023	1028
977:	1040	1016	1022	1021	1027	1042	1032	1005
985:	984	924	1021	1045	1046	1041	988	1011
993:	1005	1014	1024	1083	1011	1037	980	1046
1001:	1059	976	976	941	1010	991	968	922
1009:	980	942	961	993	984	949	940	927
1017:	942	966	918	965	917	1006	918	983
1025:	930	943	890	919	877	888	908	984
1033:	926	881	846	932	882	877	891	926
1041:	843	806	850	854	902	861	891	855
1049:	825	951	1258	1358	1045	821	854	844
1057:	883	842	884	862	783	852	840	887
1065:	862	845	925	933	1119	1226	975	845
1073:	853	835	862	868	809	854	829	808
1081:	813	814	868	788	817	831	789	828
1089:	793	808	771	785	826	793	840	922
1097:	895	786	785	753	840	876	984	984
1105:	930	859	828	813	866	892	825	801
1113:	807	832	833	841	950	2997	14396	24951
1121:	13644	3303	1113	882	836	843	830	898
1129:	886	892	863	956	1180	1070	845	796
1137:	818	789	792	751	853	791	789	778
1145:	788	793	795	842	856	821	856	872
1153:	1104	2552	3393	2090	1061	817	855	828
1161:	830	776	841	782	758	785	752	808
1169:	780	747	777	801	792	741	728	748
1177:	778	682	756	810	969	986	874	739
1185:	744	750	714	694	738	746	701	677
1193:	734	684	690	671	737	696	705	744
1201:	710	702	681	691	671	940	1347	1194
1209:	809	683	721	694	680	637	685	661
1217:	732	768	766	664	703	728	665	617
1225:	664	678	650	721	692	690	715	709

1233:	653	684	816	2002	6774	9093	4325	1368

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Channel								
1241:	721	695	680	632	668	645	651	684
1249:	648	671	760	860	1139	951	791	714
1257:	669	659	662	666	662	691	661	631
1265:	633	687	653	676	633	686	710	653
1273:	719	669	703	622	621	677	1134	2240
1281:	2433	1379	742	699	658	647	639	619
1289:	614	597	593	605	592	576	645	590
1297:	594	589	575	595	647	680	734	704
1305:	596	619	573	594	594	590	602	616
1313:	591	599	630	698	644	616	582	603
1321:	604	609	600	568	620	618	603	590
1329:	615	637	589	628	620	596	644	654
1337:	648	610	568	578	633	609	586	599
1345:	594	589	559	560	620	576	585	586
1353:	643	585	617	603	613	614	616	621
1361:	607	620	575	595	611	643	597	590
1369:	602	573	580	597	595	618	906	3016
1377:	6160	5001	1952	744	619	606	773	1248
1385:	1646	1181	763	647	578	578	584	580
1393:	644	583	611	531	606	583	773	1506
1401:	2276	1817	892	647	695	1389	3032	3472
1409:	1691	819	669	644	614	614	695	650
1417:	636	629	655	601	593	584	652	646
1425:	689	656	597	598	566	609	542	617
1433:	572	589	614	635	608	592	542	518
1441:	598	597	584	624	624	589	593	570
1449:	633	598	574	613	625	617	603	622
1457:	599	580	613	652	648	617	595	583
1465:	559	582	589	627	651	643	605	620
1473:	596	654	645	614	626	637	669	639
1481:	702	704	633	621	638	593	659	627
1489:	610	643	657	670	629	634	626	665
1497:	635	649	637	659	676	629	695	668
1505:	625	683	1148	2491	3233	1878	895	696
1513:	669	649	637	659	633	661	639	632
1521:	658	640	692	593	644	683	673	620
1529:	655	633	658	643	630	629	652	640
1537:	901	1128	972	683	651	899	1093	845
1545:	601	557	500	530	519	501	502	498
1553:	465	492	505	485	451	465	477	469
1561:	478	508	470	487	467	449	454	466
1569:	458	466	453	453	441	466	439	464
1577:	432	455	417	471	638	1035	1210	842
1585:	570	425	483	428	426	414	427	440
1593:	593	725	623	542	477	621	787	618
1601:	442	455	385	419	412	420	480	430
1609:	406	393	408	361	366	387	411	397
1617:	382	379	357	373	361	337	382	353
1625:	352	346	354	331	319	331	321	324
1633:	337	324	343	310	293	303	319	294
1641:	265	272	332	315	289	292	282	278
1649:	267	280	286	315	259	295	284	310
1657:	327	302	533	1098	1361	857	406	260

1665:	283	279	265	229	250	245	247	237

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Channel								
1673:	238	258	247	222	249	236	248	252
1681:	250	306	436	446	306	241	216	223
1689:	241	248	350	447	480	359	267	231
1697:	204	223	230	218	220	212	209	199
1705:	176	225	214	194	212	200	231	218
1713:	217	231	169	197	200	190	213	182
1721:	203	188	195	225	208	243	680	2186
1729:	3801	2697	1073	347	227	226	238	199
1737:	210	187	203	201	211	205	222	214
1745:	233	186	190	210	222	192	204	213
1753:	206	206	208	200	196	214	222	258
1761:	553	2935	10449	16097	11053	3652	874	319
1769:	240	225	230	235	213	221	212	200
1777:	178	217	211	219	236	235	190	206
1785:	183	214	217	199	193	203	201	220
1793:	196	189	215	182	189	196	209	180
1801:	187	177	182	171	160	174	158	191
1809:	170	197	177	178	194	204	181	171
1817:	193	156	178	184	158	173	175	173
1825:	180	171	199	178	180	171	162	194
1833:	191	179	197	276	373	512	375	207
1841:	173	183	202	271	634	1613	2302	1591
1849:	563	245	202	196	186	170	194	169
1857:	156	187	174	198	181	198	179	202
1865:	169	187	186	169	178	190	244	371
1873:	385	292	209	191	177	201	188	195
1881:	174	198	177	191	189	163	191	201
1889:	285	293	234	201	166	226	264	298
1897:	232	233	222	189	154	173	186	164
1905:	185	153	155	165	173	179	171	169
1913:	161	147	176	177	168	177	176	160
1921:	170	182	168	180	153	171	164	156
1929:	163	179	174	168	186	244	280	266
1937:	274	232	203	183	176	174	174	175
1945:	199	189	161	168	156	183	190	166
1953:	163	177	158	178	189	171	198	189
1961:	149	158	165	154	164	168	149	159
1969:	184	169	168	141	147	156	153	140
1977:	146	146	122	153	147	138	139	128
1985:	136	126	139	137	133	140	114	169
1993:	147	157	142	129	140	113	118	139
2001:	116	135	127	128	134	153	123	124
2009:	156	197	153	130	131	149	157	191
2017:	214	164	127	132	116	94	130	133
2025:	116	121	91	103	99	122	104	125
2033:	109	109	106	105	101	90	85	104
2041:	96	111	105	93	90	76	108	99
2049:	95	105	121	158	151	107	96	99
2057:	98	116	116	87	99	76	76	82
2065:	99	70	82	83	88	75	80	94
2073:	78	84	69	82	86	88	73	59
2081:	84	82	85	86	90	82	92	113
2089:	101	104	84	88	70	56	74	76

2097:	71	76	69	80	72	74	88	72

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Channel								
2105:	64	65	97	84	156	110	94	85
2113:	56	88	122	351	866	1043	692	316
2121:	145	78	76	75	57	64	58	80
2129:	48	69	52	56	59	73	56	65
2137:	57	58	61	50	69	59	56	77
2145:	56	77	67	77	73	60	62	56
2153:	69	64	46	53	62	61	54	51
2161:	61	56	55	49	66	54	57	43
2169:	62	70	53	52	61	67	54	69
2177:	57	49	59	73	61	57	68	50
2185:	54	63	55	64	58	74	91	101
2193:	81	55	69	70	69	66	66	126
2201:	606	1985	3705	3459	1702	516	159	68
2209:	70	71	65	71	74	56	66	59
2217:	61	56	53	59	49	57	57	47
2225:	56	44	42	54	45	57	50	48
2233:	34	47	61	50	50	51	46	43
2241:	48	42	42	45	47	38	37	42
2249:	37	50	52	35	25	38	37	39
2257:	42	43	46	48	60	47	35	43
2265:	47	47	44	44	47	49	35	36
2273:	37	40	36	39	32	35	43	25
2281:	46	32	34	47	41	34	42	43
2289:	37	63	153	248	267	146	77	49
2297:	40	39	35	37	26	27	29	29
2305:	36	39	25	39	32	32	32	43
2313:	37	42	30	29	38	29	27	28
2321:	27	21	23	30	26	26	22	20
2329:	35	42	44	28	26	32	15	16
2337:	26	15	28	33	23	23	22	24
2345:	23	27	22	19	29	30	14	26
2353:	21	16	28	21	22	23	28	21
2361:	20	21	28	18	21	23	14	26
2369:	26	30	14	25	22	22	17	24
2377:	23	30	17	23	17	27	19	15
2385:	25	17	19	11	16	14	15	15
2393:	12	18	20	13	13	11	11	13
2401:	24	15	16	18	14	15	16	29
2409:	17	24	11	15	12	17	19	10
2417:	18	18	15	17	20	27	18	17
2425:	20	10	19	12	17	11	10	13
2433:	17	17	13	15	14	14	18	23
2441:	22	23	23	105	373	819	1070	801
2449:	300	99	40	22	23	17	19	18
2457:	24	14	10	20	13	15	13	18
2465:	16	17	13	10	12	17	14	12
2473:	18	20	22	16	11	13	18	13
2481:	18	14	14	15	12	16	11	8
2489:	15	12	11	17	16	14	18	15
2497:	10	13	16	8	18	14	11	16
2505:	13	15	17	17	6	11	12	9
2513:	13	8	10	8	12	11	12	17
2521:	11	16	10	15	9	9	8	16

2529:	12	10	11	13	10	7	13	11

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Channel								
2537:	11	13	10	8	5	17	9	20
2545:	15	6	16	9	12	7	12	8
2553:	6	8	6	13	5	10	10	11
2561:	6	5	11	8	10	15	12	8
2569:	4	10	8	10	11	5	5	7
2577:	6	5	8	8	9	5	8	4
2585:	10	8	10	11	8	5	4	6
2593:	6	10	5	11	7	6	6	13
2601:	8	7	12	8	5	8	9	4
2609:	9	7	17	35	66	64	47	19
2617:	11	1	9	14	12	12	9	7
2625:	8	8	3	8	13	8	5	4
2633:	3	9	12	8	9	7	5	5
2641:	3	4	10	7	5	6	4	6
2649:	13	7	7	10	6	9	9	9
2657:	6	4	4	7	7	11	10	4
2665:	3	7	7	11	6	6	7	3
2673:	7	8	4	8	4	10	6	5
2681:	5	6	13	7	2	5	4	7
2689:	4	7	12	16	22	31	22	13
2697:	13	8	6	6	6	11	10	5
2705:	9	5	7	3	4	3	7	5
2713:	8	5	3	6	3	10	4	6
2721:	9	5	6	7	7	12	13	13
2729:	5	8	6	7	7	5	7	6
2737:	5	4	5	5	2	5	5	8
2745:	4	7	5	5	0	3	3	7
2753:	5	4	6	6	5	2	4	3
2761:	3	5	4	6	1	5	13	23
2769:	27	10	7	10	2	7	4	5
2777:	7	3	3	6	6	9	9	8
2785:	12	5	4	6	6	4	4	3
2793:	7	5	6	8	2	5	6	3
2801:	7	6	3	5	2	4	5	6
2809:	6	7	6	5	4	4	7	1
2817:	1	7	1	2	6	3	5	4
2825:	4	4	2	3	2	2	4	3
2833:	3	0	4	4	0	2	4	4
2841:	3	4	4	3	2	4	3	4
2849:	6	3	1	4	1	2	0	2
2857:	5	4	4	9	3	0	6	1
2865:	4	5	4	0	4	0	0	1
2873:	3	1	4	3	3	7	9	7
2881:	5	5	2	1	5	6	5	2
2889:	3	5	4	3	7	4	2	4
2897:	4	2	2	3	1	3	1	7
2905:	3	1	0	2	2	4	4	1
2913:	5	2	3	5	5	4	6	7
2921:	5	11	4	3	6	2	6	1
2929:	3	2	0	3	4	5	2	3
2937:	1	3	3	5	3	0	2	2
2945:	1	1	6	5	5	3	2	1
2953:	3	2	3	4	2	3	3	0

2961:	1	3	3	3	4	2	4	1

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Channel								
2969:	3	3	4	2	4	1	3	15
2977:	6	10	9	2	2	0	1	6
2985:	3	0	1	6	4	1	2	0
2993:	4	4	1	5	4	4	6	7
3001:	4	1	2	1	2	0	1	2
3009:	1	2	3	2	2	0	0	3
3017:	2	4	4	3	0	2	3	1
3025:	1	4	3	0	3	0	3	1
3033:	2	5	4	2	4	3	3	4
3041:	0	4	4	4	2	0	4	1
3049:	3	4	6	9	11	6	7	1
3057:	2	2	4	0	1	1	2	1
3065:	0	2	1	0	0	1	2	2
3073:	5	2	4	5	2	4	0	3
3081:	5	3	2	4	2	2	1	1
3089:	0	2	2	0	2	3	1	2
3097:	0	4	3	4	2	1	2	1
3105:	1	0	0	1	1	1	1	0
3113:	1	1	2	1	0	3	2	1
3121:	2	3	2	1	2	3	1	1
3129:	2	3	2	1	0	1	3	2
3137:	2	1	1	2	3	2	2	4
3145:	1	3	0	1	2	2	1	1
3153:	1	0	0	0	0	3	3	1
3161:	1	3	1	2	1	1	1	1
3169:	1	2	0	1	2	1	0	4
3177:	3	1	1	0	2	4	0	0
3185:	1	2	3	1	1	1	0	0
3193:	2	0	2	2	1	1	2	0
3201:	0	1	1	2	2	2	1	1
3209:	0	0	1	2	0	4	0	0
3217:	0	3	3	1	0	1	1	0
3225:	0	0	2	3	0	0	1	0
3233:	0	2	0	1	0	2	0	0
3241:	0	0	0	1	2	3	1	2
3249:	4	2	1	1	0	2	3	3
3257:	1	0	0	0	0	1	2	1
3265:	0	1	1	2	0	0	1	1
3273:	0	1	2	1	1	0	3	3
3281:	2	1	1	1	1	1	0	1
3289:	1	0	2	0	1	0	0	1
3297:	0	1	1	0	0	0	0	1
3305:	0	0	0	0	1	0	0	0
3313:	1	0	0	1	0	1	0	0
3321:	1	1	0	1	3	0	0	1
3329:	1	1	0	0	1	3	0	2
3337:	0	1	1	0	0	0	1	1
3345:	0	2	0	1	0	0	0	1
3353:	0	1	1	1	4	0	1	1
3361:	2	1	1	0	0	0	1	0
3369:	2	0	0	1	1	1	1	0
3377:	0	1	0	1	0	0	0	0
3385:	1	1	0	0	0	0	1	0

3393:	0	1	0	1	1	0	1	0

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Channel								
3401:	1	0	1	1	0	0	0	0
3409:	0	0	1	0	0	0	0	0
3417:	0	1	2	2	1	1	0	0
3425:	0	1	0	1	0	0	0	1
3433:	0	1	1	0	0	0	0	2
3441:	0	0	0	0	0	1	0	0
3449:	2	1	0	2	0	1	0	0
3457:	1	2	1	1	1	0	1	0
3465:	0	1	0	1	0	0	2	0
3473:	0	0	0	0	1	0	1	1
3481:	0	3	0	0	2	0	4	1
3489:	0	0	1	0	2	1	0	0
3497:	0	1	1	1	0	2	1	0
3505:	1	0	0	1	1	1	2	1
3513:	0	0	3	2	0	0	0	1
3521:	0	0	1	1	0	0	0	0
3529:	0	0	0	0	1	1	0	1
3537:	3	1	0	1	0	0	1	0
3545:	0	1	0	0	0	0	0	0
3553:	1	0	2	0	0	1	1	0
3561:	0	0	0	2	0	0	0	0
3569:	1	0	0	0	0	1	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	2	0	0	0	0
3593:	1	1	0	2	0	0	0	1
3601:	0	1	0	0	0	0	0	0
3609:	1	0	1	0	0	2	0	0
3617:	0	1	1	0	0	2	1	0
3625:	1	3	0	0	1	2	0	0
3633:	0	0	0	0	1	0	0	0
3641:	1	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	2	0	0	0	1	0
3665:	0	0	1	0	0	0	1	0
3673:	0	0	0	0	1	0	1	0
3681:	0	0	0	0	0	1	0	1
3689:	1	0	0	0	0	0	0	1
3697:	1	0	0	0	0	0	0	1
3705:	0	0	0	1	0	1	0	0
3713:	0	0	0	1	0	0	0	0
3721:	0	0	0	0	0	1	0	1
3729:	0	0	1	1	1	1	0	0
3737:	0	0	1	1	0	0	0	0
3745:	0	0	0	1	0	0	0	0
3753:	0	1	0	0	0	0	0	0
3761:	0	0	0	2	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	1	1	0	0	2	1	0	0
3785:	0	1	0	0	0	0	0	0
3793:	2	0	0	0	0	0	0	0
3801:	0	0	1	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0

3825:	0	0	0	0	0	0	0	0

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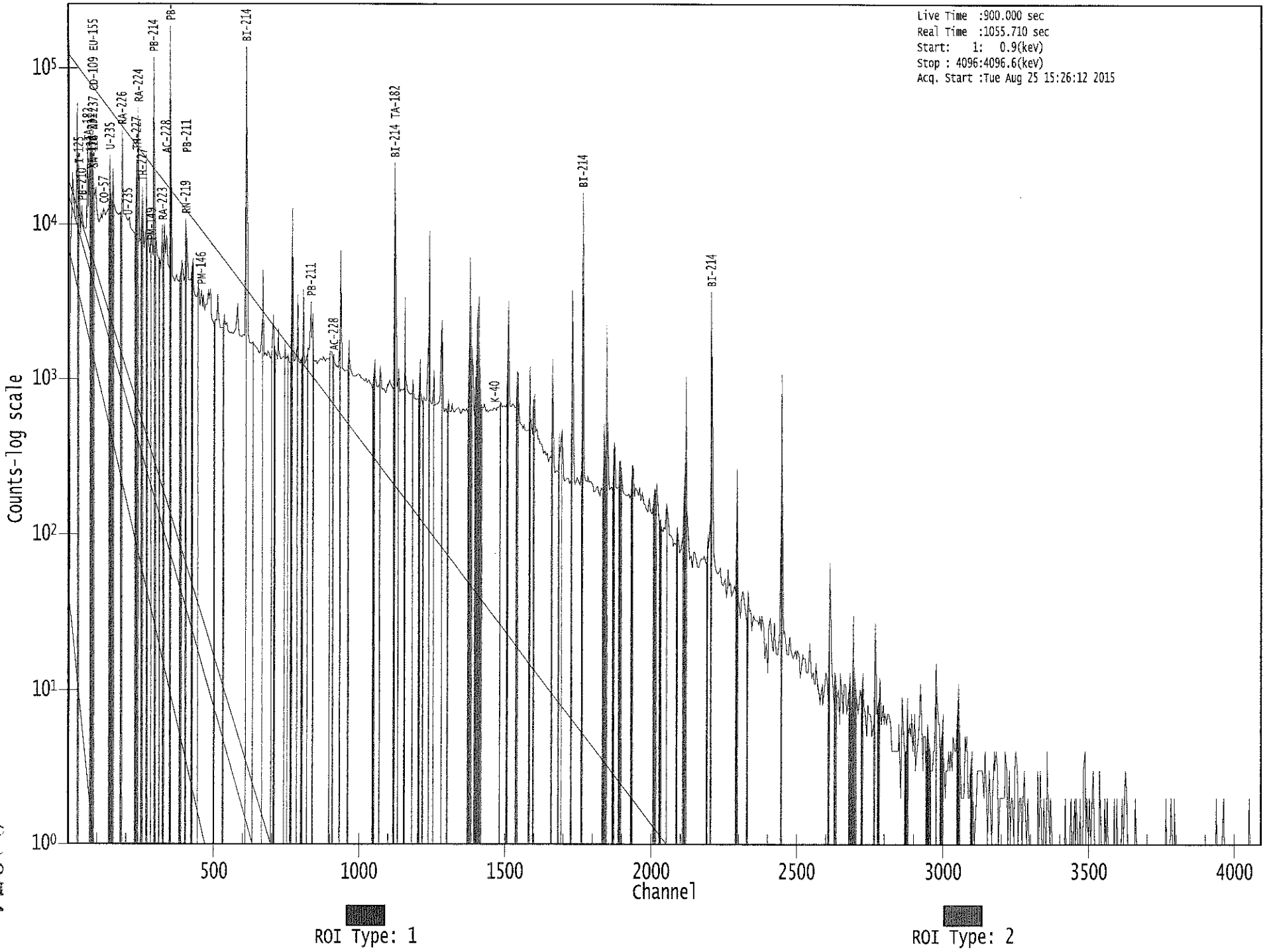
Channel								
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	1	0	1	0	0	0	0
3857:	0	0	1	0	0	0	1	0
3865:	1	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	1	0	1	0	0	0	0	0
3889:	0	0	0	0	0	0	1	0
3897:	0	0	0	0	0	0	1	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	1	0	0	0
3929:	0	0	0	0	0	1	0	1
3937:	2	0	0	0	0	0	0	0
3945:	1	0	0	0	0	0	0	0
3953:	0	0	0	0	0	1	0	0
3961:	0	0	2	0	0	0	0	0
3969:	0	1	0	0	0	0	0	1
3977:	1	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	1	1	0	0
4025:	0	1	0	1	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	2	0	0	0	0
4057:	0	0	0	1	0	1	0	0
4065:	0	0	0	0	0	0	0	1
4073:	0	0	0	0	0	0	0	0
4081:	0	0	1	0	0	0	0	0
4089:	0	1	0	0	0	0	0	0

0000026403.CNF



06724

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

8/25

Last Results Report
8/25/15 6:04:21 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001B.QCK

Detector: GE1
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:07 AM
Measurement Date: 8/25/15 5:49:08 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE1 [SD: 2.1672E+000+/- 0.362]	2.2233E+000	1.5482E-001 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
****

Last Results Report
8/25/15 6:04:29 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002B.QCK

Detector: GE2
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:17 AM
Measurement Date: 8/25/15 5:49:18 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.1 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE2 [SD: 4.5681E+000+/- 0.286]	4.2000E+000	-1.2886E+000 < : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

8/25

Last Results Report
8/25/15 6:04:38 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003B.QCK

Detector: GE3
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:25 AM
Measurement Date: 8/25/15 5:49:26 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 902.9 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE3	1.9510E+003	-2.2519E-001
[SD: 2.3011E+003+/-1554.8]		< : : : >

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
8/25/15 6:04:46 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004B.QCK

Detector: GE4
Geometry: <None>
Certificate: <None>
Sample ID: QA Background Ch
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 8/25/15 5:49:32 AM
Measurement Date: 8/25/15 5:49:34 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 900.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
DAILY BKG CT RATE GE4	1.6900E+000	-4.5459E-002
[SD: 9.5399E+000+/-172.68]		< : : : >

Trend Test: The last 9 samples exhibit a bias trend.

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
8/25/15 5:38:43 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000001GAF-14C.QCK

Detector: GE1
Geometry: <None>
Certificate: GAF-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 5:23:02 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 926.8 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	6.0230E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Peak centroid 661.65 kev	6.6171E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.01 ke	1.8355E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.0335E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	1.8563E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2186E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-90	2.4072E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.4561E+004	
Boundary Limits: [1.170E-002, 1.754E-002]		< : : : >
Decay corrected activity	6.0988E+003	
Boundary Limits: [4.716E-003, 7.075E-003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	1.0699E+004	

00679

Boundary Limits: [7.572E-003, 1.136E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	2.0044E+004	
Boundary Limits: [1.626E-002, 2.440E-002]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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8/25

Last Results Report
8/25/15 5:38:53 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000002GAS-1401C.QC

Detector: GE2
Geometry: <None>
Certificate: GAS-1401
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 5:23:09 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 929.5 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54kev	6.0000E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6154E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3324E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8357E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	1.3525E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.1085E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Co-60	2.2730E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.6484E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.5439E+005	
Boundary Limits: [1.224E-001, 1.836E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Decay corrected activity 6.3368E+004
Boundary Limits: [4.971E-002, 7.457E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	1.0303E+005	
Boundary Limits: [7.978E-002, 1.197E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.1656E+005	
Boundary Limits: [1.714E-001, 2.571E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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Last Results Report
8/25/15 7:02:08 AM

8/25

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000003GAS-1402C.QC

Detector: GE3
Geometry: <None>
Certificate: GAS-1402
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 6:46:13 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 942.0 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.9849E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6158E+002	
Boundary Limits: [6.600E+002, 6.640E+002]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8356E+003	
Boundary Limits: [1.833E+003, 1.838E+003]		< : : : >
Peak FWHM Am-241	1.7252E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Cs-137	2.0684E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.2215E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Y-88	2.4373E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Decay corrected activity	1.8128E+005	
Boundary Limits: [1.223E-001, 1.834E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	6.5370E+004	

00683

Boundary Limits: [4.969E-002, 7.453E-002] < : : : >

Decay corrected activity 9.8492E+004
Boundary Limits: [7.972E-002, 1.120E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Decay corrected activity 2.0187E+005
Boundary Limits: [1.713E-001, 2.569E-001] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

****
***** GENIE QUALITY ASSURANCE *****
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B/2V

Last Results Report
8/25/15 5:39:28 AM

QA File: \\OR-GAMMA1\ApexRoot\Countroom\QA\D0000000004GAW-14C.QCK

Detector: GE4
Geometry: <None>
Certificate: GAW-14
Sample ID: QA Calibration C
Sample Desc: QA Count
Sample Quantity: 1.0000E+000
Sample Date: 10/1/14 12:00:00 AM
Measurement Date: 8/25/15 5:23:24 AM
Elapsed Live Time: 900.0 seconds
Elapsed Real Time: 951.3 seconds

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Peak centroid 59.54 kev	5.8716E+001	
Boundary Limits: [5.800E+001, 6.100E+001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak centroid 661.65 kev	6.6108E+002	
Boundary Limits: [6.600E+002, 6.630E+002]		< : : : >
Peak centroid 1332.49 ke	1.3322E+003	
Boundary Limits: [1.331E+003, 1.334E+003]		< : : : >
Peak centroid 1836.1 kev	1.8361E+003	
Boundary Limits: [1.834E+003, 1.838E+003]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Am-241	2.2224E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Cs-137	2.7046E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Peak FWHM Co-60	2.9597E+000	
Boundary Limits: [5.000E-001, 3.000E+000]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Peak FWHM Y-88	3.1009E+000	
Boundary Limits: [5.000E-001, 3.500E+000]		< : : : >
Decay corrected activity	1.2233E+005	
Boundary Limits: [1.200E-001, 1.816E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	6.4698E+004	

00685

Boundary Limits: [4.918E-002, 7.377E-002] < : : : >
Trend Test: The last 9 samples exhibit a bias trend.

Parameter Description [Mean +/- Std. Dev.]	Value	Deviation/Flags < LU : SD : UD : BS >
Decay corrected activity	9.7633E+004	
Boundary Limits: [7.892E-002, 1.184E-001]		< : : : >
Trend Test: The last 9 samples exhibit a bias trend.		
Decay corrected activity	2.0886E+005	
Boundary Limits: [1.695E-001, 2.543E-001]		< : : : >

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Package Completeness	1. All results forms and Case Narrative included? 2. All samples in COC present? 3. All notes in Case Narrative consistent with chemist's review of data package?	1. Yes 2. Yes 3. Yes	None
Sample Conditions and Preservations	1. Cooler temperature <6ºC? 2. pH of aqueous samples <2? 3. Record of sample preservation and problems noted for sample conditions.	Not applicable to soils	None
Holding Times	Samples met holding time requirement (180	Yes	None
Matrix Spike/Matrix Spike Duplicates	1. Was at least one MS/MSD analysis performed for each method on each batch of samples of similar matrix or for each 20 samples, whichever is more frequent? 2. Were field blanks used for MS/MSD sample analysis? 3. Were spike recovery and RPD results reported in pCi/g? 4. Were MS/MSD results within lab established control limits? 5. Were RPD ≤ 20%?	No Matrix spikes performed.	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Method and Field Blanks	1. Was at least one method blank, consisting of deionized distilled water, processed through each sample preparation and analysis procedure prepared and analyzed with every SDG, or for each batch of 20 samples, whichever is more frequent? 2. Was at least one field blank/matrix per sampling episode collected? 3. Were the associated blanks free of target analytes?	1. Yes 2. No 3. **Method blank** - Uranium-234 (0.103 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-235 (0.0 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required - Uranium-238 0.124 pCi/g) - Positive Blank Conc is <1.65 X blank uncertainty - no qualifications required	None
Laboratory Control Sample (LCS)	1. Was LCS analyzed for every 20 samples or for each batch of samples whichever is more frequent? 2. Were LCS %R within 80-120%?	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Duplicate	1. Was one duplicate sample analyzed for each batch and each method? 2. Were duplicate results reported in pCi/g? 3. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are ≥5 times their LLD, the relative percent difference (RPD) was ≤ 20%. c) If either result is ≥ their LLD, but < 5 times their LLD, the absolute value of their difference was < 2 X LLD.	1. Yes 2. Yes 3. **U-238** FEEBRIS1D-8.075-076 0.585 pCi/g FEEBRIS1D-8.075-076 DUP 0.364 pCi/g Range = 0.221 <2XLLD - results are in control **U-234** FEEBRIS1D-8.075-076 0.659 pCi/g FEEBRIS1D-8.075-076 DUP 0.0701 pCi/g Range = 0.5889 >2XLLD - qualify parent sampes as P **U-235** FEEBRIS1D-8.075-076 0.259 pCi/g FEEBRIS1D-8.075-076 DUP -0.0939 pCi/g Range = 0.3529 >2XLLD - qualify parent sampes as P	**FEEBRIS1D-8.075-076** U-234 P U-235 P **FEEBRIS1D-8.075-076 DUP** U-234 P U-235 P
Non-Detects	Is the LLD > the sample concentration.	see qualifications	**U-234** FEEBRIS1D-8.075-076 DUP U **U-235** FEEBRIS1D-20.080-081 U FEEBRIS1D-8.075-076 DUP U **U-238** FEEBRIS1D-8.075-076 DUP U

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)
SAMPLE NUMBERS:

FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Uncertainty	For the sample results >LLD the combined standard uncertainty is less than 50% of the sample activity.	see qualifications	**U-235** FEEBRIS1D-20.089-090 Q FEEBRIS1D-4.061-062 Q FEEBRIS1D-7.084-085 Q FEEBRIS1D-8.075-076 Q FEEBRIS1D-8.090-091Q
Standards and Reference Materials	1. The standards used for calibration are not aged more than four times the half-life from the certification date and have been recalibrated within the past three years. 2. All standards used in instrument calibrations were NIST traceable with certification, date certified, expiration dates, and DPM activities.	1. Yes 2. Yes	None
Chemical Yield (Tracer)	Chemical recoveries were within control limits (75-110%). If chemical recoveries were <20% then check for spectral degradation.	FEEBRIS1D-8.075-076 DUP Rec = 59.2% FEEBRIS1D-8.075-076 Rec = 113% FEEBRIS1D-8.090-091 Rec = 72.8% FEEBRIS1D-20.080-081 Rec = 113%	**U-234, U-235, U-238** FEEBRIS1D-8.075-076 DUP J FEEBRIS1D-8.075-076 J FEEBRIS1D-8.090-091 J FEEBRIS1D-20.080-081 J
Background Counts	1. Background was measured 2. Background counts duration was at least as long as the sample count duration	1. Yes 2. Yes	None

PROJECT NAME/NO. West Lake Landfill Phase 1D Soils
LABORATORY: Eberline Services
PROJECT ID: 15-08002
MEDIA: Soil
FRACTION: Radionuclides - Uranium (EML U-02)

SAMPLE NUMBERS:		
	FEEBRIS1D-8.075-076	FEEBRIS1D-20.080-081
	FEEBRIS1D-8.090-091	FEEBRIS1D-20.089-090
	FEEBRIS1D-4.061-062	FEEBRIS1D-7.084-085
	FEEBRIS1D-4.064-065	DUPLICATE 5 (field dup of FEEBRIS1D-20.089-090)

SAMPLE DATE: 7/24,29,30/2015

CRITERIA	Project Criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	1. Were field duplicates collected for every 10 samples? 2. a) If both results are <LLD, then no duplicate comparison was made. b) If both results are >5 times their LLD, the relative percent difference (RPD) was ≤ 35%. c) If either result is > their LLD, but < 5 times their LLD, the absolute value of their difference was < 5 X the LLD.	FEEBRIS1D-20.080-081 FEEBRIS1D-20.080-081 FD Results were in control	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12285
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 4 C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 8.4º C. This temperature is acceptable - received the same day as sampling. Insufficient time to cool down. All holding time criteria met. FEEBR1S1D-09.088-089 should be FEEBRIS1D-09.088-089	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCVL 160-197509/23: Al 184% - sample conc >10X CCVL conc - use high conc CCV for assessment - no qualification required Na 132% - sample conc >10X CCVL conc - use high conc CCV for assessment - no qualification required CCVL 160-197509/33 Al 185% - sample conc >10X CCVL conc - use high conc CCV for assessment - no qualification required	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, TB, or EB.	**Method blank:** Sb 0.0865 mg/kg -qualify associated sample conc <RL as U Na 7.39 mg/kg - sample conc >10X blank conc - no qualification required Ca 11.2 mg/kg - sample conc >10X blank conc - no qualification required **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** no analytes detected	**FEEBRIS1D-09.088-089** Sb U
CRDL Standard	CRDL results btw 70-130% 50-150% for Sb, Pb, and Tl	Al 172% - sample conc >2X CRI conc - no qualification required	None
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each preparation batch. LCS	LCS results within limits .	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12285
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	preparation batch. LCS limits within 80-120%.		
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed on samples from another project - not applicable	None
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None
Linear Range Check Standard	results within 90-110%	Results were in control	None
Serial Dilution	Performed on samples of a similar matrix or 1 per 20 samples. %D ≤ 10% conc ≥ 50xDL for	Serial dilution performed on a sample from another project.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12285
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	5-fold dilution.		
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	No field duplicate was associated with this SDG	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12285
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 C. Holding time = 28 days for chloride and fluoride 14 days forAlkalinity 24 hours for pH	Coolers received at 8.4º C. This temperature is acceptable - received the same day as sampling. Insufficient time to cool down. FEEBR1S1D-09.088-089 should be FEEBRIS1D-09.088-089 pH was analyzed after 6 days - qualify results as J	**FEEBRIS1D-09.088-089** pH J
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** Alkalinity 9.99 mg/kg - sample conc >10X blank conc - no qualification required Bicarbonate Alkalinity 9.99 mg/kg - sample conc >10X blank conc - no qualification required **Equipment blank:** no field blanks collected with this sample set	None
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	Lab duplicates performed on FEEBRIS1D-09.088-089 for alkalinity, sulfate and fluoride - results were in control	None
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on FEEBRIS1D-09.088-089 foe SO4 and Fl- results were in control	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12285
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.088-089
SAMPLE DATE(S): 6/11/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Low Level Control Sample	recovery within 80-120%	Not reported,	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	No field duplicate was associated with this SDG	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12305
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-13.093-094, FEEBRIS1D-13.085-086, FEEBRIS1D-13.082-084, FEEBRIS1D-13.054-056
SAMPLE DATE(S): 6/12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 4 C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 10.5º C. This temperature is acceptable - received the same day as sampling. Insufficient time to cool down. All holding time criteria met.	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCV results were in control	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, TB, or EB.	**Method blank:** Al 2.36 ug/L - sample conc >10X blank conc - no qualification required Na 6.95 - sample conc >10X blank conc - no qualification required **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** no analytes detected	None
CRDL Standard	CRDL results btw 70-130% 50-150% for Sb, Pb, and Tl	Al 172% - sample conc >2X CRI conc - no qualification required	None
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each preparation batch. LCS	LCS results within limits .	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12305
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-13.093-094, FEEBRIS1D-13.085-086, FEEBRIS1D-13.082-084, FEEBRIS1D-13.054-056
SAMPLE DATE(S): 6/12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	preparation batch. LCS limits within 80-120%.		
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed FEEBRIS1D-13.093-094 Nb 36.4%/66% - qualify parent sample as UJ Al 276%/288%- qualify parent sample as J+ K 140%/141%- qualify parent sample as J+ Ta 4%/5%- qualify parent sample as UJ-	**FEEBRIS1D-13.093-094** Nb UJ- Al J+ K J+ Ta UJ-
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None
Linear Range Check Standard	results within 90-110%	Results were in control	None
Serial Dilution	Performed on samples of a similar matrix or 1 per 20 samples. %D ≤ 10% conc ≥ 50xDL for	Serial dilution performed on FEEBRIS1D-13.093-094. Results were in control.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12305
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-13.093-094, FEEBRIS1D-13.085-086, FEEBRIS1D-13.082-084, FEEBRIS1D-13.054-056
SAMPLE DATE(S): 6/12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	5-fold dilution.		
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #1 (SDG 160-12612) was collected as a field duplicate of FEEBRIS1D-13.093-094. Al RPD = 95% Fe RPD = 42%	**FEEBRIS1D-13.093-094.** Al J Fe J

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12305
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES: FEEBRIS1D-13.093-094, FEEBRIS1D-13.085-086, FEEBRIS1D-13.082-084, FEEBRIS1D-13.054-056
SAMPLE DATE(S): 6/12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 C. Holding time = 28 days for chloride and fluoride 14 days forAlkalinity 24 hours for pH	Coolers received at 10.5º C. This temperature is acceptable - received the same day as sampling. Insufficient time to cool down. pH was analyzed after 5 days - qualify results as J	**all samples** pH J
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** Alkalinity 9.99 mg/kg - sample conc >10X blank conc - no qualification required Bicarbonate Alkalinity 9.99 mg/kg - sample conc >10X blank conc - no qualification required **Equipment blank:** no field blanks collected with this sample set **CCBs**: CCB 160-197820/41 SO4 - 0.638 mg/l - MB immediately after this CCB was not detected - not qualifed Fl - 0.0859 mg/l - MB immediately after this CCB was not detected - not qualifed	None
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when	Lab duplicates performed on FEEBRIS1D-13.093-094 for alkalinityand pH - results were in control	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12305
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES: FEEBRIS1D-13.093-094, FEEBRIS1D-13.085-086, FEEBRIS1D-13.082-084, FEEBRIS1D-13.054-056
SAMPLE DATE(S): 6/12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	samp/dup value < 5x RL		
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on FEEBRIS1D-13.093-094 for alkalinity- results were in control except Bicarbonate alkalinity Rec = 127% - qualify associated detects as J+	**FEEBRIS1D-13.093-094** Bicarb alk J+
Low Level Control Sample	recovery within 80-120%	Not reported,	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #1 (SDG 160-12612) was collected as a fied duplicate of FEEBRIS1D-13.093-094. Bicarbonate Alkalinity = 109% - not qualified because dup was out of holding time and probably biased low. Total Alkalinity RPD = 95% - not qualified because dup was out of holding time and probably biased low.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12447
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.99-100, FEEBRIS1D-09.078-079, FEEBRIS1D-01.007-009, FEEBRIS1D-01.024-027, FEEBRIS1D-02.027-030, FEEBRIS1D-02.020-023, FEEBRIS1D-02.036-037, FEEBRIS1D-18.013-014, FEEBRIS1D-18.038-041, FEEBRIS1D-18.044-046, FEEBRIS1D-17.030-031, FEEBRIS1D-17.033-036

SAMPLE DATE(S): 6/17, 22/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 4 C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 3.6º C. All holding time criteria met. Only sample FEEBRIS1D-02.020-023 (160-12447-6) is reported with a result below the adjusted reporting limit (RL) at dilution for Chloride, as the sample matrix was a bright blue leachate that was deemed inappropriate to analyze at lesser dilution, to protect the instrument columns. However, the Chloride result for this sample is above the adjusted MDL at dilution.	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCV results were in control except CCVL 160-199588/22 Al = 137% - associated sample concentrations >10X CCV conc - no qualification required	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, CCB or EB.	**Method blank:** no analytes detected **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** CCB 160-199588/17 Pb 0.193 ug/L - associated sample conc >10X blank conc - no qualification required.	None
CRDL Standard	CRDL results btw 70-130%	Results were in control.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12447
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.99-100, FEEBRIS1D-09.078-079, FEEBRIS1D-01.007-009, FEEBRIS1D-01.024-027, FEEBRIS1D-02.027-030, FEEBRIS1D-02.020-023, FEEBRIS1D-02.036-037, FEEBRIS1D-18.013-014, FEEBRIS1D-18.038-041, FEEBRIS1D-18.044-046, FEEBRIS1D-17.030-031, FEEBRIS1D-17.033-036

SAMPLE DATE(S): 6/17, 22/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	50-150% for Sb, Pb, and Tl		
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each preparation batch. LCS limits within 80-120%.	LCS results within limits .	None
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed on FEEBRIS1D-09.99-100 for Nb Nb MSD = 61% - qualify parent sample as UJ- MS/MSDs analyzed on FEEBRIS1D-01.007-009 for Hg - results were in control MS/MSDs for remaining analytes were performed on a sample from another project.	**FEEBRIS1D-09.99-100** Nb UJ-
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12447
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.99-100, FEEBRIS1D-09.078-079, FEEBRIS1D-01.007-009, FEEBRIS1D-01.024-027, FEEBRIS1D-02.027-030, FEEBRIS1D-02.020-023, FEEBRIS1D-02.036-037, FEEBRIS1D-18.013-014, FEEBRIS1D-18.038-041, FEEBRIS1D-18.044-046, FEEBRIS1D-17.030-031, FEEBRIS1D-17.033-036

SAMPLE DATE(S): 6/17, 22/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None
Linear Range Check Standard	results within 90-110%	Results were in control	None
Serial Dilution	Performed on samples of a similar matrix or 1 per 20 samples. %D ≤ 10% conc ≥ 50xDL for 5-fold dilution.	Serial dilution performed on FEEBRIS1D-09.99-100 for Nb. Results were in control. Serial dilution performed on FEEBRIS1D-01.007-009 for Hg. Results were in control.	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	No field duplicates were associated to the SDG	None

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-12247

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-09.99-100, FEEBRIS1D-09.078-079, FEEBRIS1D-01.007-009, FEEBRIS1D-01.024-027, FEEBRIS1D-02.027-030, FEEBRIS1D-02.020-023, FEEBRIS1D-02.036-037, FEEBRIS1D-18.013-014, FEEBRIS1D-18.038-041, FEEBRIS1D-18.044-046, FEEBRIS1D-17.030-031, FEEBRIS1D-17.033-036

SAMPLE DATE(S): 6/17, 22/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 C. Holding time = 28 days for chloride and fluoride 14 days forAlkalinity 24 hours for pH	Coolers received at 3.6º C. pH was analyzed after 3 to 8 days - qualify results as J Only sample FEEBRIS1D-02.020-023 (160-12447-6) is reported with a result below the adjusted reporting limit (RL) at dilution for Chloride, as the sample matrix was a bright blue leachate that was deemed inappropriate to analyze at lesser dilution, to protect the instrument columns. However, the Chloride result for this sample is above the adjusted MDL at dilution.	**all samples** pH J
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** no analytes detected **Equipment blank:** no field blanks collected with this sample set **CCBs**: no analytes detected	None
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when	Lab duplicates performed onFEEBRIS1D-09.99-100 - results were in control	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12247
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES: FEEBRIS1D-09.99-100, FEEBRIS1D-09.078-079, FEEBRIS1D-01.007-009, FEEBRIS1D-01.024-027, FEEBRIS1D-02.027-030, FEEBRIS1D-02.020-023, FEEBRIS1D-02.036-037, FEEBRIS1D-18.013-014, FEEBRIS1D-18.038-041, FEEBRIS1D-18.044-046, FEEBRIS1D-17.030-031, FEEBRIS1D-17.033-036
SAMPLE DATE(S): 6/17, 22/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	samp/dup value < 5x RL		
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on FEEBRIS1D-09.99-100 - results were in control	None
Low Level Control Sample	recovery within 80-120%	Not reported.	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	No field duplicates were associated to the SDG	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12612
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-3.028-029, FEEBRIS1D-3.041-043, DUPLICATE # 2 (field duplicate of FEEBRIS1D-3.041-043), FEEBRIS1D-12.061-062 FEEBRIS1D-12.074-075 FEEBRIS1D-15.077-080 FEEBRIS1D-15.085-086 FEEBRIS1D-11.085-086 FEEBRIS1D-11.087-088 DUPLICATE # 1 (field duplicate of FEEBRIS1D-13.093-094)
SAMPLE DATE(S): 6/12/2015, 7/6/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 4 C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 1.4º C. All holding time criteria met except	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCV results were in control except for: CCVL 160-200941/16 Ca 45% - all samples conc >10X CCV conc - no qualification required CCVL 160-200941/24 Ca 42% - all samples conc >10X CCV conc - no qualification required CCVL 160-200941/37 Ca 38% - all samples conc >10X CCV conc - no qualification required	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, TB, or EB.	**Method blank:** Al 1.65 mg/kg - sample conc >10X blank conc - no qualification required **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** no analytes detected	None
CRDL Standard	CRDL results btw 70-130% 50-150% for Sb, Pb, and Tl	Al 172% - sample conc >2X CRI conc - no qualification required	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12612
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-3.028-029, FEEBRIS1D-3.041-043, DUPLICATE # 2 (field duplicate of FEEBRIS1D-3.041-043), FEEBRIS1D-12.061-062 FEEBRIS1D-12.074-075 FEEBRIS1D-15.077-080 FEEBRIS1D-15.085-086 FEEBRIS1D-11.085-086 FEEBRIS1D-11.087-088 DUPLICATE # 1 (field duplicate of FEEBRIS1D-13.093-094)
SAMPLE DATE(S): 6/12/2015, 7/6/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each preparation batch. LCS limits within 80-120%.	LCS results within limits .	None
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed on FEEBRIS1D-3.028-029 Sb 67%/66% - qualify parent sample as J+ Cu 165%- qualify parent sample as J+ K 187%/194%- qualify parent sample as J+ Ag 59%- qualify parent sample as J- Zn 40%- qualify parent sample as J- Ta 16%/14%- qualify parent sample as UJ- Ba RPD = 100%- qualify parent sample as J Ca RPD = 46%- qualify parent sample as J Mn 617%- - qualify parent sample as J+ Mn RPD = 57%- qualify parent sample as J	**FEEBRIS1D-3.028-029** Sb J+ Cu J+ Ag J- Zn J- K J+ Ta UJ- Ba J Ca J Mn J+
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None
Linear Range Check Standard	results within 90-110%	Results were in control	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12612
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-3.028-029, FEEBRIS1D-3.041-043, DUPLICATE # 2 (field duplicate of FEEBRIS1D-3.041-043), FEEBRIS1D-12.061-062 FEEBRIS1D-12.074-075 FEEBRIS1D-15.077-080 FEEBRIS1D-15.085-086 FEEBRIS1D-11.085-086 FEEBRIS1D-11.087-088 DUPLICATE # 1 (field duplicate of FEEBRIS1D-13.093-094)
SAMPLE DATE(S): 6/12/2015, 7/6/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Serial Dilution	Performed on samples of a similar matrix or 1 per 20 samples. %D ≤ 10% conc ≥ 50xDL for 5-fold dilution.	Serial dilution performed on FEEBRIS1D-3.028-029. Results were in control.	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #1 was collected as a field duplicate of FEEBRIS1D-13.093-094 (SDG 160-12305). Al RPD = 95% Fe RPD = 42% Duplicate #2 was collected as a field duplicate of FEEBRIS1D-3.041-043. Al RPD = 182% - qualify parent samples as J Cu RPD = 80%- qualify parent samples as J Fe RPD = 53%- qualify parent samples as J Mg RPD = 58%- qualify parent samples as J Mn RPD = 57%- qualify parent samples as J Hg RPD = 177%- qualify parent samples as J Zn RPD = 145%- qualify parent samples as J	**FEEBRIS1D-13.093-094 FD** Al J Fe J **FEEBRIS1D-3.041-043** Al J Cu J Fe J Mg J Mn J Hg J Zn J **FEEBRIS1D-3.041-043 FD** Al J Cu J Fe J Mg J Mn J Hg J Zn J

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-12612

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-3.028-029, FEEBRIS1D-3.041-043, DUPLICATE # 2 (field duplicate of FEEBRIS1D-3.041-043), FEEBRIS1D-12.061-062, FEEBRIS1D-12.074-075, FEEBRIS1D-15.077-080, FEEBRIS1D-15.085-086, FEEBRIS1D-11.085-086, FEEBRIS1D-11.087-088, DUPLICATE # 1 (field duplicate of FEEBRIS1D-13.093-094)

SAMPLE DATE(S): 6/12/2015, 7/6/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 C. Holding time = 28 days for chloride and fluoride 14 days for Alkalinity 24 hours for pH	Coolers received at 1.4º C. pH was analyzed after 5 days for some samples - qualify results as J pH was analyzed after 25 days for some samples - qualify results as J DUPLICATE # 1 Alkalinity analysis at 27 days - qualify sample as J -	**FEEBRIS1D-15.077-080** pH J **FEEBRIS1D-15.085-086** pH J **FEEBRIS1D-11.085-086** pH J **FEEBRIS1D-11.087-088** pH J **FEEBRIS1D-13.093-094 FD** pH J ALK J- BICARB ALK J- CARN ALK J-
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** Alkalinity 9.98 mg/kg - sample conc >10X blank conc - no qualification required Bicarbonate Alkalinity 9.98 mg/kg - sample conc >10X blank conc - no qualification required	None

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-12612

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-3.028-029, FEEBRIS1D-3.041-043, DUPLICATE # 2 (field duplicate of FEEBRIS1D-3.041-043), FEEBRIS1D-12.061-062, FEEBRIS1D-12.074-075, FEEBRIS1D-15.077-080, FEEBRIS1D-15.085-086, FEEBRIS1D-11.085-086, FEEBRIS1D-11.087-088, DUPLICATE # 1 (field duplicate of FEEBRIS1D-13.093-094)

SAMPLE DATE(S): 6/12/2015, 7/6/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
		Equipment blank: no field blanks collected with this sample set **CCBs**: no analytes detected	
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	Lab duplicates performed on FEEBRIS1D-12.061-062 for alkalinity and pH - results were in control	None
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on FEEBRIS1D-3.028-029 for SO4 and Fl- results were in control MS analysis performed on FEEBRIS1D-12.061-062 for alkalinity alkalinity Rec = 72% - qualify associated detects as J- bicarbonate alkalinity Rec = 72% - qualify associated detects as J-	**FEEBRIS1D-12.061-062** Bicarb alk J- alk J-
Low Level Control Sample	recovery within 80-120%	Results were in control	None

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-12612

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-3.028-029, FEEBRIS1D-3.041-043, DUPLICATE # 2 (field duplicate of FEEBRIS1D-3.041-043), FEEBRIS1D-12.061-062, FEEBRIS1D-12.074-075, FEEBRIS1D-15.077-080, FEEBRIS1D-15.085-086, FEEBRIS1D-11.085-086, FEEBRIS1D-11.087-088, DUPLICATE # 1 (field duplicate of FEEBRIS1D-13.093-094)

SAMPLE DATE(S): 6/12/2015, 7/6/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #1 was collected as a field duplicate of FEEBRIS1D-13.093-094 (SDG 160-12305) . Bicarbonate Alkalinity = 109% - not qualified because dup was out of holding time and probably biased low. Total Alkalinity RPD = 95% - not qualified because dup was out of holding time and probably biased low. Duplicate #2 was collected as a field duplicate of FEEBRIS1D-3.041-043 - all results were in control	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12766
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: 076
SAMPLE DATE(S): 7/8, 12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 4 C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 3.2º C. All holding time criteria met	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCV results were in control except for: CCVL 160-201342/30 Al 148 % - all samples conc >10X CCV conc - no qualification required CCVL 160-201609/34 Ca 68% - all samples conc >10X CCV conc - no qualification required	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, TB, or EB.	**Method blank:** Al 1.65 mg/kg - sample conc >10X blank conc - no qualification required Na 6.41 mg/kg - sample conc >10X blank conc - no qualification required **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** no analytes detected	None
CRDL Standard	CRDL results btw 70-130% 50-150% for Sb, Pb, and Tl	Al 172% - sample conc >2X CRI conc - no qualification required	None
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each preparation batch. LCS	LCS results within limits .	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12766
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: 076
SAMPLE DATE(S): 7/8, 12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	preparation batch. LCS limits within 80-120%.		
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed on FEEBRIS1D-10.074-076 Sb 61%/71% - qualify parent sample as J+ As 126%- qualify parent sample as J+ Ba 135%/130%- qualify parent sample as J+ Mg 189%/196%- qualify parent sample as J+ Pb144%/182%- qualify parent sample as J+ Mn 142%/188%- qualify parent sample as J+ Nb 55%/52%- qualify parent sample as UJ- K 217%/206%- qualify parent sample as J+ Ta 19%/20%- qualify parent sample as UJ- Cu RPD = 169%- qualify parent sample as J	**FEEBRIS1D-10.074-076** Sb J+ As J+ Ba J+ Mg J+ Cu J Pb J+ Nb UJ- K J+ Ta UJ- Mn J+
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None
Linear Range Check Standard	results within 90-110%	Results were in control	None
Serial Dilution	Performed on samples of a similar matrix or 1 per 20 samples. %D ≤ 10% conc ≥ 50xDL for	Serial dilution performed on FEEBRIS1D-10.074-076 . Results were in control.	None

PROJECT NAME/NO.	West Lake Phase 1D
LAB:	TestAmerica - Earth City, MO
SDG:	160-12766
FRACTION:	Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA:	Soil
SAMPLES:	076
SAMPLE DATE(S):	7/8, 12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	5-fold dilution.		
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #3 was collected as a fied duplicate of FEEBRIS1D-19.061-063. Results were in control.	None

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-12766

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-19.061-063, DUPLICATE # 3 (field duplicate of FEEBRIS1D-19.061-063), FEEBRIS1D-10.046-049, FEEBRIS1D-10.074-076

SAMPLE DATE(S): 7/8, 12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 C. Holding time = 28 days for chloride and fluoride 14 days for Alkalinity 24 hours for pH	Coolers received at 3.2º C. pH was analyzed after 3 to 7 days - qualify results as J	**FEEBRIS1D-19.061-063** pH J **FEEBRIS1D-19.061-063 FD** pH J **FEEBRIS1D-10.046-049** pH J **FEEBRIS1D-10.074-076** pH J
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** no analytes detected **Equipment blank:** no field blanks collected with this sample set **CCBs**: no analytes detected	None
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when	Lab duplicates performed on FEEBRIS1D-19.061-063 - results were in control	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-12766
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES: FEEBRIS1D-19.061-063, DUPLICATE # 3 (field duplicate of FEEBRIS1D-19.061-063), FEEBRIS1D-10.046-049, FEEBRIS1D-10.074-076
SAMPLE DATE(S): 7/8, 12/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	samp/dup value < 5x RL		
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on FEEBRIS1D-19.061-063 - results were in control alkalinity Rec = 158% - qualify associated detects as J+ bicarbonate alkalinity Rec = 175% - qualify associated detects as J+	**FEEBRIS1D-19.061-063** Bicarb alk J+ alk J+
Low Level Control Sample	recovery within 80-120%	Results were in control	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #3 was collected as a field duplicate of FEEBRIS1D-19.061-063. Results were in control.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13027
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-5.063-064, FEEBRIS1D-5.051-052, FEEBRIS1D-6.080-081, FEEBRIS1D-6.085-086, FEEBRIS1D-7.093-094, FEEBRIS1D-16.050-051, FEEBRIS1D-16.059-061, DUPLICATE #4 (field duplicate of FEEBRIS1D-16.059-061)
SAMPLE DATE(S): 7/20,21,24.27/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 4 C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 4.2º C. All holding time criteria met FEEBRIS1D-5.063-064 This sample was re-extracted for niobium, due to low LCS recovery. The LCS in the re-extract was spiked at a higher amount than the original digestion. This resulted in a possible carryover of this analyte into the first sample. The result in the first sample was still below the reporting limit, but above the MDL.	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCV results were in control	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, TB, or EB.	**Method blank:** Al 7.46 mg/kg - sample conc >10X blank conc - no qualification required Sb 0.0474 mg/kg - sample conc >10X blank conc - no qualification required Ca 7.11 mg/kg - sample conc >10X blank conc - no qualification required Na 7.34 mg/kg - sample conc >10X blank conc - no qualification required Se 0.156 mg/kg - sample conc >10X blank conc or ND- no qualification required **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** no analytes detected	None
CRDL Standard	CRDL results btw 70-130% 50-150% for Sb, Pb, and Tl	Al 172% - sample conc >2X CRI conc - no qualification required	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13027
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-5.063-064, FEEBRIS1D-5.051-052, FEEBRIS1D-6.080-081, FEEBRIS1D-6.085-086, FEEBRIS1D-7.093-094, FEEBRIS1D-16.050-051, FEEBRIS1D-16.059-061, DUPLICATE #4 (field duplicate of FEEBRIS1D-16.059-061)
SAMPLE DATE(S): 7/20,21,24.27/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each preparation batch. LCS limits within 80-120%.	LCS results within limits . Nb LCS conc over the linear range - in control - no qualification required	None
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed on FEEBRIS1D-5.063-064 Al 215%- qualify parent sample as J+ Ba 35%- qualify parent sample as J+ Cu 7%- qualify parent sample as J- Cu RPD = 65%- qualify parent sample as J Fe RPD = 38%- qualify parent sample as J Pb 173%/71%- qualify parent sample as J+ Pb RPD = 32%- qualify parent sample as J Mn 48%- qualify parent sample as J- Nb 56%/57%- qualify parent sample as J- K 143%/126%- qualify parent sample as J+ Ta 2%/2%- qualify parent sample as UJ- Zn 343%/-7%- qualify parent sample as J Zn RPD = 80%- qualify parent sample as J	**FEEBRIS1D-5.063-064** Al J+ Ba J+ Cu J- Fe J Pb J+ Mn J- Nb UJ- K J+ Ta J- Zn J
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13027
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-5.063-064, FEEBRIS1D-5.051-052, FEEBRIS1D-6.080-081, FEEBRIS1D-6.085-086, FEEBRIS1D-7.093-094, FEEBRIS1D-16.050-051, FEEBRIS1D-16.059-061, DUPLICATE #4 (field duplicate of FEEBRIS1D-16.059-061)
SAMPLE DATE(S): 7/20,21,24.27/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Linear Range Check Standard	results within 90-110%	Results were in control	None
Serial Dilution	Performed on samples of a similar matrix or 1 per 20 samples. %D ≤ 10% conc ≥ 50xDL for 5-fold dilution.	Serial dilution performed on FEEBRIS1D-5.063-064 . Results were in control.	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #4 was collected as a field duplicate of FEEBRIS1D-16.059-061. Results were in control.	None

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-13027

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-5.063-064, FEEBRIS1D-5.051-052, FEEBRIS1D-6.080-081, FEEBRIS1D-6.085-086, FEEBRIS1D-7.093-094, FEEBRIS1D-16.050-051, FEEBRIS1D-16.059-061, DUPLICATE #4 (field duplicate of FEEBRIS1D-16.059-061)

SAMPLE DATE(S): 7/20,21,24.27/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 C. Holding time = 28 days for chloride and fluoride 14 days for Alkalinity 24 hours for pH	Coolers received at 4.2º C. pH was analyzed after 3 to 10 days - qualify results as J	**all samples** pH J
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** no analytes detected alkalinity 19.9 mg/kg - all sample conc >10X blank conc bicarb alkalinity 19.9 mg/kg - qualify associated sample <10X blank conc as J+ **Equipment blank:** no field blanks collected with this sample set **CCBs**: no analytes detected	**FEEBRIS1D-7.093-094** Bicarb alk J+
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	Lab duplicates performed on FEEBRIS1D-7.093-094 - results were in control	None

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-13027

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-5.063-064, FEEBRIS1D-5.051-052, FEEBRIS1D-6.080-081, FEEBRIS1D-6.085-086, FEEBRIS1D-7.093-094, FEEBRIS1D-16.050-051, FEEBRIS1D-16.059-061, DUPLICATE #4 (field duplicate of FEEBRIS1D-16.059-061)

SAMPLE DATE(S): 7/20,21,24.27/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on FEEBRIS1D-7.093-094 - results were in control	None
Low Level Control Sample	recovery within 80-120%	Results were in control	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #4 was collected as a field duplicate of FEEBRIS1D-16.059-061. Results were in control.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13102
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-7.084-085
SAMPLE DATE(S): 7/24/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6°C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 4.6 °C. All holding time criteria met FEEBRIS1D-7.084-085 This sample was re-extracted for niobium, due to low LCS recovery.	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCV results were in control	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, TB, or EB.	**Method blank:** Al 7.46 mg/kg - sample conc >10X blank conc - no qualification required Sb 0.0474 mg/kg - sample conc >10X blank conc - no qualification required Ca 7.11 mg/kg - sample conc >10X blank conc - no qualification required Na 7.34 mg/kg - sample conc >10X blank conc - no qualification required Se 0.156 mg/kg - sample conc >10X blank conc - no qualification required **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** no analytes detected	None
CRDL Standard	CRDL results btw 70-130% 50-150% for Sb, Pb, and Tl	Al 172% - sample conc >2X CRI conc - no qualification required	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13102
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-7.084-085
SAMPLE DATE(S): 7/24/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each preparation batch. LCS limits within 80-120%.	LCS results within limits . Nb LCS conc over the linear range - in control - no qualification required	None
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed on a sample from another SDG	None
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None
Linear Range Check Standard	results within 90-110%	Results were in control	None
Serial Dilution	Performed on samples of a similar matrix or 1	Serial dilution performed on a sample from another SDG	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13102
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-7.084-085
SAMPLE DATE(S): 7/24/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	per 20 samples. %D ≤ 10% conc ≥ 50xDL for 5-fold dilution.		
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	No field duplicates were analyzed within this SDG.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13102
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES:
FEEBRIS1D-7.084-085
SAMPLE DATE(S): 7/24/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 °C. Holding time = 28 days for chloride and fluoride 14 days for Alkalinity 24 hours for pH	Coolers received at 4.6 ºC. pH was analyzed after 11 days - qualify results as J	**FEEBRIS1D-7.084-085** pH J
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** no analytes detected alkalinity 9.96 mg/kg - all sample conc >10X blank conc bicarb alkalinity 9.96 mg/kg - all sample conc >10X blank conc **Equipment blank:** no field blanks collected with this sample set **CCBs**: no analytes detected	None
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	Lab duplicates performed on FEEBRIS1D-7.084-085 for pH- results were in control Remaining dups performed on a sample from another SDG	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13102
FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)
MEDIA: Soil
SAMPLES:
FEEBRIS1D-7.084-085
SAMPLE DATE(S): 7/24/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on a sample from another SDG	None
Low Level Control Sample	recovery within 80-120%	Results were in control	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	No field duplicates were analyzed within this SDG.	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13103
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-8.075-076, FEEBRIS1D-8.090-091, FEEBRIS1D-4.061-062, FEEBRIS1D-4.064-065, FEEBRIS1D-20.080-081, DUPLICATE #5 (field dup of FEEBRIS1D-20.080-081), FEEBRIS1D-20.089.090
SAMPLE DATE(S): 7/29,30/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6°C. Holding Time: Hg < 28 days, all other metals < 180 days from collection.	Coolers received at 3.2 °C. All holding time criteria met The samples were re-extracted for niobium, due to low LCS recovery.	None
CCVs	CCV every 10 samples or 2 hours ICP CV/CCV %R = 90-110% Hg CV/CCV %R = 80-120%	CCV results were in control	None
Blanks (method blank, prep blank)	CC Blank Conc < CRQL. Method blanks: 1 per 20 project samples. No TCL detected in MB, TB, or EB.	**Method blank:** Al 7.46 mg/kg - sample conc >10X blank conc - no qualification required Sb 0.0474 mg/kg - sample conc >10X blank conc - no qualification required Ca 7.11 mg/kg - sample conc >10X blank conc - no qualification required Na 7.34 mg/kg - sample conc >10X blank conc - no qualification required Se 0.156 mg/kg - sample conc >10X blank conc or ND- no qualification required **Equipment blank:** No equipment blanks associated to this SDG. **CCBs:** no analytes detected	None
CRDL Standard	CRDL results btw 70-130% 50-150% for Sb, Pb, and Tl	Al 172% - sample conc >2X CRI conc - no qualification required	None
Laboratory Control Sample	LCS/LCSD: 1 per 20 project samples or each	LCS results within limits .	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13103
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-8.075-076, FEEBRIS1D-8.090-091, FEEBRIS1D-4.061-062, FEEBRIS1D-4.064-065, FEEBRIS1D-20.080-081, DUPLICATE #5 (field dup of FEEBRIS1D-20.080-081), FEEBRIS1D-20.089.090
SAMPLE DATE(S): 7/29,30/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	project samples or each preparation batch. LCS limits within 80-120%.	Nb LCS conc over the linear range - in control - no qualification required	
Lab Duplicates	RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	No lab duplicates were analyzed within this SDG.	None
Matrix Spike/Matrix Spike Duplicates	MS/MSD: 1 per 20 project samples or each preparation batch. Recoveries within lab limits. MS/MSD %RPDs <= 20%. Post Digestion Spike Recovery (when MS spike rec out of control) limits 75-125%	MS/MSDs analyzed on a sample from another SDG except FEEBRIS1D-20.080-081 for Sc - results were in control	None
ICP Interference Check Sample (ICS)	ICS results within 80-120%.	All criteria met.	None
Internal Standards	%RI = 60-125%	Internal Standards were in control.	None
Linear Range Check Standard	results within 90-110%	Results were in control	None
Serial Dilution	Performed on samples of a similar matrix or 1	Serial dilution performed on a sample from another SDG	None

PROJECT NAME/NO. West Lake Phase 1D
LAB: TestAmerica - Earth City, MO
SDG: 160-13103
FRACTION: Metals (SW846 6010B/6020A) (Prep 3050B) Mercury (7471B)
MEDIA: Soil
SAMPLES: FEEBRIS1D-8.075-076, FEEBRIS1D-8.090-091, FEEBRIS1D-4.061-062, FEEBRIS1D-4.064-065, FEEBRIS1D-20.080-081, DUPLICATE #5 (field dup of FEEBRIS1D-20.080-081), FEEBRIS1D-20.089.090
SAMPLE DATE(S): 7/29,30/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
	per 20 samples. %D ≤ 10% conc ≥ 50xDL for 5-fold dilution.		
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #5 was collected as a field duplicate of FEEBRIS1D-20.080-081. Mg RPD = 44% - qualify parent samples as J	FEEBRIS1D-20.080-081 Mg J FEEBRIS1D-20.080-081 FD Mg J

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-13103

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

SAMPLES: FEEBRIS1D-8.075-076, FEEBRIS1D-8.090-091, FEEBRIS1D-4.061-062, FEEBRIS1D-4.064-065, FEEBRIS1D-20.080-081, DUPLICATE #5 (field dup of FEEBRIS1D-20.080-081), FEEBRIS1D-20.089.090

SAMPLE DATE(S): 7/29,30/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Data Completeness, Holding Times & Preservation	Cooler temp < 6 °C. Holding time = 28 days for chloride and fluoride 14 days for Alkalinity 24 hours for pH	Coolers received at 3.2 ºC. pH was analyzed after 5 or 6 days - qualify results as J	**all samples** pH J
Calibration and Continuing Calibration Verification Standards	R2>0.99 CCVs 90-110%	ICVs, CCVs, and Calibrations were in control.	None
Blanks	Method blanks: 1 per 20 project samples. No analytes detected in MBs, CCBs or EBs.	**Method Blank:** no analytes detected alkalinity 9.96 mg/kg - all sample conc >10X blank conc bicarb alkalinity 9.96 mg/kg - all sample conc >10X blank conc **Equipment blank:** no field blanks collected with this sample set **CCBs**: no analytes detected	None
Laboratory Control Sample	Recoveries within lab limits.	LCS recoveries were in control.	None
Lab Duplicates	Lab Duplicate: RPD <20% or Absolute Diff < RL when samp/dup value < 5x RL	Lab duplicates performed on FEEBRIS1D-8.090-091 - results were in control	None

PROJECT NAME/NO. West Lake Phase 1D

LAB: TestAmerica - Earth City, MO

SDG: 160-13103

FRACTION: Sulfate, Fluoride (9056), Alkalinity (310.1), pH (9045D)

MEDIA: Soil

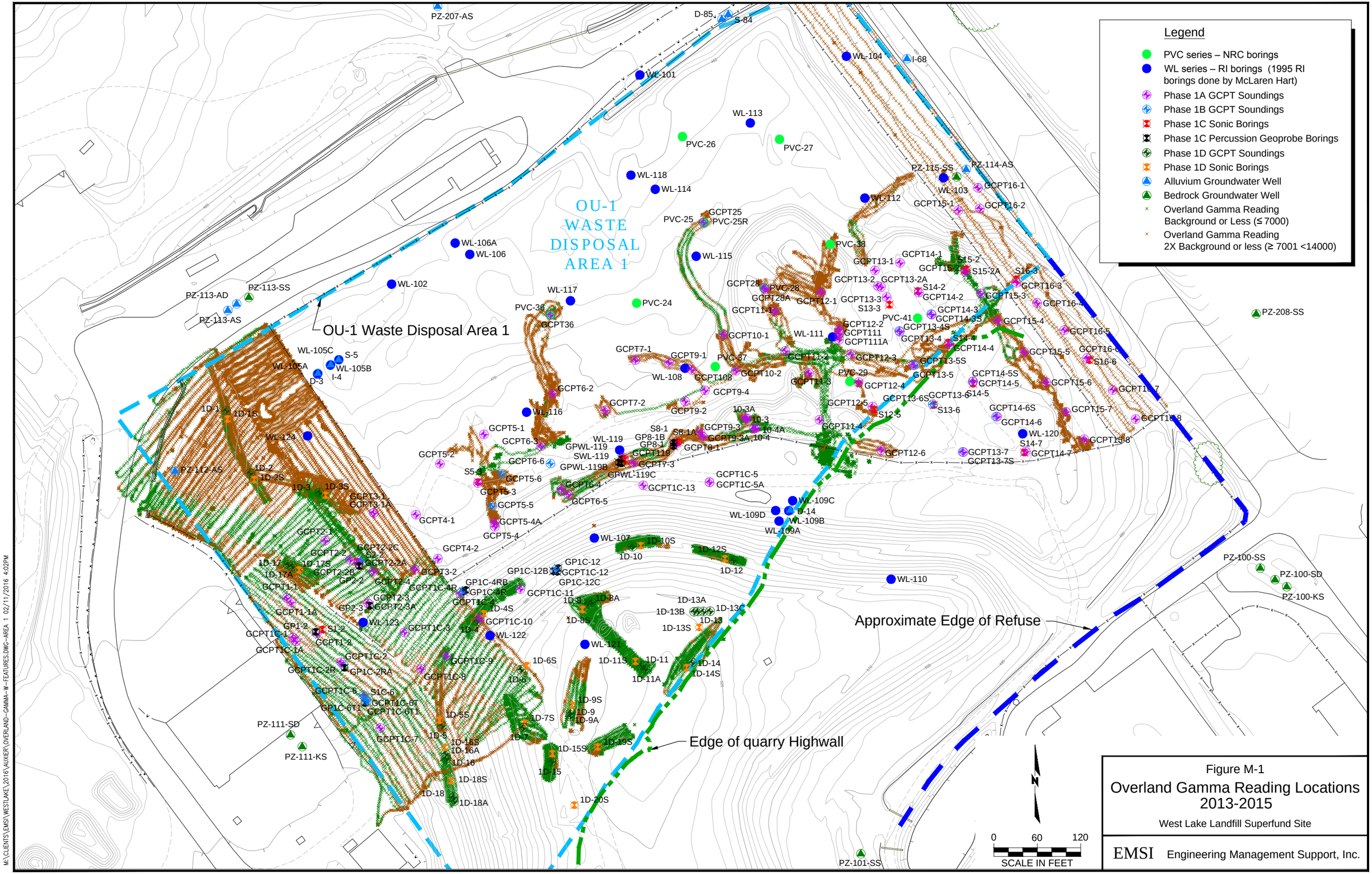
SAMPLES: FEEBRIS1D-8.075-076, FEEBRIS1D-8.090-091, FEEBRIS1D-4.061-062, FEEBRIS1D-4.064-065, FEEBRIS1D-20.080-081, DUPLICATE #5 (field dup of FEEBRIS1D-20.080-081), FEEBRIS1D-20.089.090

SAMPLE DATE(S): 7/29,30/2015

CRITERIA	Acceptable limits / criteria	Comments/Qualifying Actions	Qualifiers Added?
Spike Sample Analysis	MS recovery within lab established limits	MS analysis performed on FEEBRIS1D-8.090-091 - results were in control	None
Low Level Control Sample	recovery within 80-120%	Results were in control	None
Field Duplicate	Field duplicate: RPD < 35% or Absolute Diff < 5XRL when samp/dup value < 5X RL	Duplicate #5 was collected as a field duplicate of FEEBRIS1D-20.080-081. Results were in control	None

APPENDIX M:

Overland Gamma Survey Data


Legend
PVC series – NRC borings
WL series – RI borings (1995 RI borings done by McLaren Hart)
Phase 1A GCPT Soundings
Phase 1B GCPT Soundings
Phase 1C Sonic Borings
Phase 1C Percussion Geoprobe Borings
Phase 1D GCPT Soundings
Phase 1D Sonic Borings
Alluvium Groundwater Well
Bedrock Groundwater Well
Overland Gamma Reading Background or Less (≤ 7000)
Overland Gamma Reading 2X Background or less (≥ 7001 <14000)
OU-1 WASTE DISPOSAL AREA 1
OU-1 Waste Disposal Area 1
Approximate Edge of Refuse
Edge of quarry Highwall
PZ-207-AS
D-85
S-84
WL-104
I-68
WL-101
WL-113
PVC-26
PVC-27
WL-118
WL-114
PZ-115-SS
PZ-114-AS
WL-103
WL-112
GCPT16-1
GCPT15-1
GCPT16-2
PVC-25
GCPT25
PVC-25R
WL-106A
WL-106
WL-115
PVC-38
GCPT14-1
GCPT13-1
S15-2
GCPT16-2
S15-2A
S16-3
PZ-113-AD
PZ-113-SS
PZ-113-AS
WL-102
WL-117
PVC-36
GCPT36
PVC-24
GCPT28
PVC-28
GCPT28A
GCPT12-1
GCPT13-2
GCPT13-2A
S14-2
GCPT14-2
GCPT16-3
GCPT15-3
GCPT16-4
GCPT13-3
S13-3
GCPT14-3
GCPT14-3S
PVC-41
GCPT13-4S
GCPT15-4
GCPT16-5
GCPT11-1
GCPT12-2
GCPT111
GCPT111A
GCPT10-1
WL-111
GCPT13-4
S14-4
GCPT14-4
GCPT15-5
GCPT16-6
S16-6
GCPT7-1
GCPT9-1
PVC-37
GCPT11-2
GCPT12-3
GCPT13-5S
WL-108
GCPT108
GCPT10-2
PVC-29
GCPT13-5
GCPT14-5S
GCPT14-5
GCPT15-6
GCPT16-7
GCPT11-3
GCPT12-4
GCPT6-2
GCPT9-4
GCPT7-2
GCPT9-2
10-3A
10-3
GCPT13-6S
GCPT13-6
S14-5
GCPT14-6S
GCPT14-6
GCPT15-7
GCPT16-8
S12-5
S13-6
WL-116
GCPT5-1
GCPT6-3
S8-1
GP8-1B
S8-1A
GCPT9-3
10-4A
GCPT9-3A,10-4
GCPT11-4
WL-120
S14-7
GCPT14-7
GCPT15-8
WL-119
GPWL-119
SWL-119
GP8-1A
GCPT9-1
GCPT12-6
GCPT13-7
GCPT13-7S
GCPT5-2
GCPT6-6
GPWL-119B
GCPT17-3
S5-1
GCPT5-6
GPWL-119C
GCPT1C-5
GCPT1C-5A
GCPT6-4
GCPT1C-13
GCPT5-3
GCPT5-5
GCPT6-5
WL-109C
WL-109D
D-14
WL-109B
WL-109A
GCPT4-1
GCPT5-4A
GCPT5-4
WL-107
1D-10S
1D-10
1D-12S
1D-12
GCPT4-2
GCPT2-1
GCPT2-2C
GCPT2-2
GCPT2-2A
GCPT3-2
GP1C-12
GP1C-12B
GCPT1C-12
GP1C-12C
WL-110
GP1C-4RB
GP1C-4R
GCPT1C-11
1D-8
1D-8A
1D-13A
GCPT1-1
GCPT1C-4
1D-4S
1D-13B
1D-13C
GCPT1-1A
GP2-3
GCPT2-3A
GCPT1C-10
1D-8S
1D-13
GP1-2
S1-2
WL-123
GCPT1C-8
1D-4
WL-122
1D-13S
GCPT1C-1
GCPT1-2
WL-121
GCPT1C-1A
GCPT1C-2
1D-6S
1D-11S
1D-11
1D-14
GCPT1C-2R
GP1C-2RA
GCPT1C-9
1D-14S
GCPT1C-8
1D-6
1D-11A
S1C-6
GCPT1C-6T
1D-9S
GCPT1C-6
GP1C-6T1
GCPT1C-6T1
1D-9
1D-5S
1D-9A
1D-7S
PZ-111-SD
1D-7
GCPT1C-7
1D-5
1D-15S
1D-19S
1D-16S
1D-16A
PZ-111-KS
1D-16
1D-15
1D-18S
1D-18
1D-18A
1D-20S
PZ-208-SS
PZ-100-SS
PZ-100-SD
PZ-100-KS
PZ-101-SS
1D-1
1D-1S
WL-124
PZ-112-AS
1D-2
1D-2S
1D-3
1D-3S
GCPT3-1
GCPT3-1A
GCPT2-1
GCPT2-2
1D-17
1D-17S
1D-17A
GCPT2-2B
GP2-2
GCPT1-4
GCPT1C-4R
GCPT2-3
GCPT2-3A
GCPT1-1A
GP2-3
GP1-2
S1-2
GCPT1C-1
GCPT1-2
GCPT1C-1A
GCPT1C-2
GCPT1C-2R
GP1C-2RA
S1C-6
GCPT1C-6T
GP1C-6T1
GCPT1C-6T1
0
60
120
SCALE IN FEET
N
Figure M-1
Overland Gamma Reading Locations 2013-2015
West Lake Landfill Superfund Site
EMSI
Engineering Management Support, Inc.
M:\CLIENTS\EMS\WESTLAKE\2016\AUXIER\OVERLAND-GAMMA-W-FEATURES.DWG-AREA 1 02/11/2016 4:02PM

Summer GPS Data

Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721977.534	4294283.393	3021	11-Jun-15	BORE HOLE 1 061115.S	418686.701	
721977.543	4294283.377	2856	11-Jun-15	BORE HOLE 1 061115.S	418687.651	
721977.551	4294283.352	2843	11-Jun-15	BORE HOLE 1 061115.S	418688.797	
721977.556	4294283.341	3290	11-Jun-15	BORE HOLE 1 061115.S	418689.597	
721977.559	4294283.331	3188	11-Jun-15	BORE HOLE 1 061115.S	418690.396	
721977.535	4294283.28	2982	11-Jun-15	BORE HOLE 1 061115.S	418691.759	
721977.512	4294283.222	2932	11-Jun-15	BORE HOLE 1 061115.S	418692.674	
721977.482	4294283.178	2657	11-Jun-15	BORE HOLE 1 061115.S	418693.788	
721977.465	4294283.158	2886	11-Jun-15	BORE HOLE 1 061115.S	418694.634	
721977.456	4294283.135	2886	11-Jun-15	BORE HOLE 1 061115.S	418695.535	
721977.448	4294283.11	3012	11-Jun-15	BORE HOLE 1 061115.S	418696.769	
721977.442	4294283.095	3054	11-Jun-15	BORE HOLE 1 061115.S	418697.704	
721977.441	4294283.074	2940	11-Jun-15	BORE HOLE 1 061115.S	418698.935	
721977.443	4294283.068	2712	11-Jun-15	BORE HOLE 1 061115.S	418699.631	
721977.446	4294283.064	2901	11-Jun-15	BORE HOLE 1 061115.S	418700.587	
721977.441	4294283.056	2846	11-Jun-15	BORE HOLE 1 061115.S	418701.709	
721977.425	4294283.048	2600	11-Jun-15	BORE HOLE 1 061115.S	418703.047	
721977.425	4294283.048	2745	11-Jun-15	BORE HOLE 1 061115.S	418703.512	
721977.437	4294283.008	2773	11-Jun-15	BORE HOLE 1 061115.S	418704.632	
721977.461	4294282.902	2614	11-Jun-15	BORE HOLE 1 061115.S	418705.64	
721977.485	4294282.783	2629	11-Jun-15	BORE HOLE 1 061115.S	418706.56	
721977.502	4294282.668	2810	11-Jun-15	BORE HOLE 1 061115.S	418707.701	
721977.509	4294282.641	2674	11-Jun-15	BORE HOLE 1 061115.S	418708.07	
721977.526	4294282.549	2904	11-Jun-15	BORE HOLE 1 061115.S	418709.779	
721977.385	4294282.682	2803	11-Jun-15	BORE HOLE 1 061115.S	418710.654	
721977.244	4294282.819	2800	11-Jun-15	BORE HOLE 1 061115.S	418711.604	
721977.169	4294282.765	3036	11-Jun-15	BORE HOLE 1 061115.S	418712.636	
721977.185	4294282.734	3231	11-Jun-15	BORE HOLE 1 061115.S	418714.1	
721977.463	4294282.869	3034	11-Jun-15	BORE HOLE 1 061115.S	418714.941	
721977.503	4294282.873	2964	11-Jun-15	BORE HOLE 1 061115.S	418715.751	
721977.479	4294282.824	3096	11-Jun-15	BORE HOLE 1 061115.S	418716.638	
721977.48	4294282.754	3002	11-Jun-15	BORE HOLE 1 061115.S	418717.58	
721977.463	4294282.691	3392	11-Jun-15	BORE HOLE 1 061115.S	418718.751	
721977.674	4294282.68	3428	11-Jun-15	BORE HOLE 1 061115.S	418719.651	
721977.965	4294282.634	3401	11-Jun-15	BORE HOLE 1 061115.S	418720.539	
721978.211	4294282.571	3098	11-Jun-15	BORE HOLE 1 061115.S	418721.649	
721978.358	4294282.523	3041	11-Jun-15	BORE HOLE 1 061115.S	418722.787	
721978.473	4294282.571	2996	11-Jun-15	BORE HOLE 1 061115.S	418723.698	
721978.499	4294282.631	3053	11-Jun-15	BORE HOLE 1 061115.S	418724.528	
721978.461	4294282.702	3056	11-Jun-15	BORE HOLE 1 061115.S	418725.693	
721978.415	4294282.744	3074	11-Jun-15	BORE HOLE 1 061115.S	418726.535	
721978.337	4294282.812	2954	11-Jun-15	BORE HOLE 1 061115.S	418727.845	
721978.315	4294282.858	2987	11-Jun-15	BORE HOLE 1 061115.S	418728.535	
721978.239	4294282.951	3080	11-Jun-15	BORE HOLE 1 061115.S	418729.663	
721978.15	4294283.053	2911	11-Jun-15	BORE HOLE 1 061115.S	418730.811	
721978.13	4294283.129	2853	11-Jun-15	BORE HOLE 1 061115.S	418731.702	
721978.094	4294283.183	3077	11-Jun-15	BORE HOLE 1 061115.S	418732.591	

Summer GPS Data

Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721978.077	4294283.236	3337	11-Jun-15	BORE HOLE 1 061115.S	418733.7	
721978.075	4294283.281	3123	11-Jun-15	BORE HOLE 1 061115.S	418734.681	
721978.067	4294283.327	3137	11-Jun-15	BORE HOLE 1 061115.S	418735.749	
721978.06	4294283.358	3182	11-Jun-15	BORE HOLE 1 061115.S	418736.609	
721978.052	4294283.386	3356	11-Jun-15	BORE HOLE 1 061115.S	418737.536	
721978.043	4294283.422	3287	11-Jun-15	BORE HOLE 1 061115.S	418738.556	
721978.009	4294283.46	3066	11-Jun-15	BORE HOLE 1 061115.S	418739.716	
721977.908	4294283.456	3076	11-Jun-15	BORE HOLE 1 061115.S	418740.591	
721977.84	4294283.457	3292	11-Jun-15	BORE HOLE 1 061115.S	418741.483	
721977.828	4294283.481	3223	11-Jun-15	BORE HOLE 1 061115.S	418742.54	
721977.825	4294283.37	3205	11-Jun-15	BORE HOLE 1 061115.S	418743.657	
721977.747	4294283.247	3309	11-Jun-15	BORE HOLE 1 061115.S	418744.588	
721982.498	4294318.22	4075	11-Jun-15	BORE HOLE 1 061115.S	419416.297	
721982.406	4294318.11	4121	11-Jun-15	BORE HOLE 1 061115.S	419394.639	
721982.51	4294318.226	4143	11-Jun-15	BORE HOLE 1 061115.S	419414.498	
721982.531	4294318.123	4184	11-Jun-15	BORE HOLE 1 061115.S	419423.479	
721982.64	4294317.969	4191	11-Jun-15	BORE HOLE 1 061115.S	419403.512	
721980.267	4294328.31	4196	11-Jun-15	BORE HOLE 1 061115.S	419242.414	
721982.636	4294319.64	4220	11-Jun-15	BORE HOLE 1 061115.S	419181.587	
721982.432	4294318.085	4223	11-Jun-15	BORE HOLE 1 061115.S	419395.387	
721982.75	4294319.092	4226	11-Jun-15	BORE HOLE 1 061115.S	419182.692	
721986.288	4294305.652	4226	11-Jun-15	BORE HOLE 1 061115.S	419526.453	
721982.507	4294318.057	4233	11-Jun-15	BORE HOLE 1 061115.S	419475.496	
721982.563	4294318.063	4235	11-Jun-15	BORE HOLE 1 061115.S	419441.415	
721982.564	4294318.058	4240	11-Jun-15	BORE HOLE 1 061115.S	419440.343	
721982.384	4294318.112	4246	11-Jun-15	BORE HOLE 1 061115.S	419393.479	
721982.555	4294317.989	4259	11-Jun-15	BORE HOLE 1 061115.S	419397.619	
721982.361	4294318.117	4269	11-Jun-15	BORE HOLE 1 061115.S	419392.278	
721982.647	4294317.975	4270	11-Jun-15	BORE HOLE 1 061115.S	419404.373	
721981.587	4294319.61	4291	11-Jun-15	BORE HOLE 1 061115.S	419591.325	
721982.523	4294318.043	4306	11-Jun-15	BORE HOLE 1 061115.S	419485.451	
721982.482	4294318.096	4323	11-Jun-15	BORE HOLE 1 061115.S	419471.448	
721980.104	4294328.738	4327	11-Jun-15	BORE HOLE 1 061115.S	419241.523	
721982.547	4294318.186	4353	11-Jun-15	BORE HOLE 1 061115.S	419412.448	
721982.308	4294324.436	4354	11-Jun-15	BORE HOLE 1 061115.S	419173.748	
721982.61	4294318.012	4377	11-Jun-15	BORE HOLE 1 061115.S	419450.443	
721982.499	4294318.228	4378	11-Jun-15	BORE HOLE 1 061115.S	419415.428	
721980.975	4294325.075	4384	11-Jun-15	BORE HOLE 1 061115.S	419556.415	
721982.494	4294318.213	4392	11-Jun-15	BORE HOLE 1 061115.S	419417.649	
721982.571	4294318.161	4420	11-Jun-15	BORE HOLE 1 061115.S	419411.561	
721982.659	4294317.992	4426	11-Jun-15	BORE HOLE 1 061115.S	419407.452	
721982.35	4294317.565	4432	11-Jun-15	BORE HOLE 1 061115.S	419500.484	
721982.663	4294319.358	4433	11-Jun-15	BORE HOLE 1 061115.S	419598.315	
721982.504	4294318.103	4437	11-Jun-15	BORE HOLE 1 061115.S	419463.417	
721980.646	4294328.261	4450	11-Jun-15	BORE HOLE 1 061115.S	419370.475	
721982.57	4294318.049	4458	11-Jun-15	BORE HOLE 1 061115.S	419439.435	
721982.572	4294318.043	4460	11-Jun-15	BORE HOLE 1 061115.S	419438.346	

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721982.499	4294318.205	4465	11-Jun-15	BORE HOLE 1 061115.S	419418.353	
721981.21	4294323.665	4466	11-Jun-15	BORE HOLE 1 061115.S	419554.448	
721982.586	4294318.023	4467	11-Jun-15	BORE HOLE 1 061115.S	419436.347	
721982.534	4294318.117	4469	11-Jun-15	BORE HOLE 1 061115.S	419424.33	
721982.48	4294318.102	4472	11-Jun-15	BORE HOLE 1 061115.S	419470.339	
721982.588	4294318.03	4476	11-Jun-15	BORE HOLE 1 061115.S	419435.492	
721982.433	4294320.175	4484	11-Jun-15	BORE HOLE 1 061115.S	419603.416	
721982.528	4294318.032	4495	11-Jun-15	BORE HOLE 1 061115.S	419483.456	
721982.566	4294318.05	4499	11-Jun-15	BORE HOLE 1 061115.S	419433.476	
721982.489	4294318.036	4505	11-Jun-15	BORE HOLE 1 061115.S	419396.384	
721981.13	4294324.369	4514	11-Jun-15	BORE HOLE 1 061115.S	419555.442	
721982.576	4294318.041	4518	11-Jun-15	BORE HOLE 1 061115.S	419434.339	
721982.223	4294325.134	4528	11-Jun-15	BORE HOLE 1 061115.S	419172.589	
721982.605	4294318.013	4532	11-Jun-15	BORE HOLE 1 061115.S	419451.536	
721982.648	4294317.991	4535	11-Jun-15	BORE HOLE 1 061115.S	419406.342	
721985.009	4294309.987	4545	11-Jun-15	BORE HOLE 1 061115.S	419287.462	
721985.867	4294308.529	4553	11-Jun-15	BORE HOLE 1 061115.S	419516.343	
721981.66	4294321.728	4563	11-Jun-15	BORE HOLE 1 061115.S	419254.434	
721982.346	4294318.109	4570	11-Jun-15	BORE HOLE 1 061115.S	419390.317	
721981.554	4294327.062	4572	11-Jun-15	BORE HOLE 1 061115.S	419151.596	
721982.527	4294318.133	4572	11-Jun-15	BORE HOLE 1 061115.S	419422.594	
721982.521	4294318.052	4574	11-Jun-15	BORE HOLE 1 061115.S	419486.588	
721982.436	4294324.016	4579	11-Jun-15	BORE HOLE 1 061115.S	419174.614	
721981.722	4294320.243	4584	11-Jun-15	BORE HOLE 1 061115.S	419256.464	
721985.124	4294309.544	4588	11-Jun-15	BORE HOLE 1 061115.S	419286.259	
721986.03	4294306.138	4589	11-Jun-15	BORE HOLE 1 061115.S	419527.348	
721982.533	4294323.501	4593	11-Jun-15	BORE HOLE 1 061115.S	419175.608	
721983.201	4294317.057	4594	11-Jun-15	BORE HOLE 1 061115.S	419186.477	
721982.663	4294317.993	4597	11-Jun-15	BORE HOLE 1 061115.S	419408.341	
721982.493	4294319.838	4599	11-Jun-15	BORE HOLE 1 061115.S	419605.419	
721981.374	4294318.968	4601	11-Jun-15	BORE HOLE 1 061115.S	419258.444	
721982.499	4294318.068	4606	11-Jun-15	BORE HOLE 1 061115.S	419474.337	
721982.374	4294317.85	4613	11-Jun-15	BORE HOLE 1 061115.S	419499.47	
721983.064	4294320.844	4622	11-Jun-15	BORE HOLE 1 061115.S	419582.368	
721982.509	4294318.099	4622	11-Jun-15	BORE HOLE 1 061115.S	419462.363	
721981.543	4294323.561	4628	11-Jun-15	BORE HOLE 1 061115.S	419378.36	
721981.432	4294319.23	4628	11-Jun-15	BORE HOLE 1 061115.S	419590.462	
721983.608	4294317.766	4629	11-Jun-15	BORE HOLE 1 061115.S	419338.592	
721982.634	4294320.067	4630	11-Jun-15	BORE HOLE 1 061115.S	419604.426	
721982.534	4294318.073	4637	11-Jun-15	BORE HOLE 1 061115.S	419459.593	
721984.141	4294311.873	4639	11-Jun-15	BORE HOLE 1 061115.S	419197.465	
721982.531	4294318.204	4646	11-Jun-15	BORE HOLE 1 061115.S	419413.286	
721981.915	4294319.891	4656	11-Jun-15	BORE HOLE 1 061115.S	419592.203	
721984.729	4294310.124	4663	11-Jun-15	BORE HOLE 1 061115.S	419276.487	
721981.656	4294318.522	4665	11-Jun-15	BORE HOLE 1 061115.S	419259.627	
721981.591	4294326.962	4680	11-Jun-15	BORE HOLE 1 061115.S	419168.548	
721983.82	4294312.741	4689	11-Jun-15	BORE HOLE 1 061115.S	419508.342	

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721982.02	4294319.882	4692	11-Jun-15	BORE HOLE 1 061115.S	419602.348	
721982.289	4294318.072	4693	11-Jun-15	BORE HOLE 1 061115.S	419389.647	
721981.624	4294322.822	4696	11-Jun-15	BORE HOLE 1 061115.S	419379.523	
721981.815	4294320.943	4697	11-Jun-15	BORE HOLE 1 061115.S	419255.395	
721983.981	4294311.943	4702	11-Jun-15	BORE HOLE 1 061115.S	419198.501	
721982.607	4294318.012	4704	11-Jun-15	BORE HOLE 1 061115.S	419446.608	
721986.567	4294305.214	4713	11-Jun-15	BORE HOLE 1 061115.S	419525.568	
721980.77	4294327.618	4716	11-Jun-15	BORE HOLE 1 061115.S	419371.594	
721982.524	4294318.083	4716	11-Jun-15	BORE HOLE 1 061115.S	419460.452	
721982.61	4294318.009	4723	11-Jun-15	BORE HOLE 1 061115.S	419447.572	
721985.982	4294311.066	4724	11-Jun-15	BORE HOLE 1 061115.S	419097.657	
721982.715	4294320.874	4725	11-Jun-15	BORE HOLE 1 061115.S	419581.432	
721983.57	4294313.235	4737	11-Jun-15	BORE HOLE 1 061115.S	419507.482	
721982.519	4294318.149	4743	11-Jun-15	BORE HOLE 1 061115.S	419421.562	
721982.524	4294318.038	4748	11-Jun-15	BORE HOLE 1 061115.S	419484.37	
721982.525	4294322.87	4751	11-Jun-15	BORE HOLE 1 061115.S	419176.542	
721982.609	4294318.106	4751	11-Jun-15	BORE HOLE 1 061115.S	419410.577	
721982.532	4294318.037	4752	11-Jun-15	BORE HOLE 1 061115.S	419481.491	
721982.645	4294318.03	4753	11-Jun-15	BORE HOLE 1 061115.S	419409.486	
721982.521	4294318.031	4759	11-Jun-15	BORE HOLE 1 061115.S	419492.451	
721982.577	4294318.05	4759	11-Jun-15	BORE HOLE 1 061115.S	419442.578	
721980.91	4294330.5	4760	11-Jun-15	BORE HOLE 1 061115.S	419364.382	
721983.588	4294317.666	4763	11-Jun-15	BORE HOLE 1 061115.S	419337.503	
721982.613	4294318.009	4772	11-Jun-15	BORE HOLE 1 061115.S	419448.449	
721981.435	4294318.844	4775	11-Jun-15	BORE HOLE 1 061115.S	419589.564	
721982.511	4294318.038	4780	11-Jun-15	BORE HOLE 1 061115.S	419491.611	
721982.558	4294318.049	4784	11-Jun-15	BORE HOLE 1 061115.S	419431.587	
721981.082	4294330.053	4786	11-Jun-15	BORE HOLE 1 061115.S	419363.447	
721984.147	4294313.81	4787	11-Jun-15	BORE HOLE 1 061115.S	419192.344	
721982.515	4294318.052	4788	11-Jun-15	BORE HOLE 1 061115.S	419476.559	
721985.573	4294309.103	4788	11-Jun-15	BORE HOLE 1 061115.S	419515.467	
721983.39	4294318.355	4789	11-Jun-15	BORE HOLE 1 061115.S	419340.342	
721982.531	4294318.023	4791	11-Jun-15	BORE HOLE 1 061115.S	419496.45	
721981.462	4294322.344	4793	11-Jun-15	BORE HOLE 1 061115.S	419253.59	
721981.908	4294317.525	4793	11-Jun-15	BORE HOLE 1 061115.S	419261.522	
721983.755	4294316.972	4797	11-Jun-15	BORE HOLE 1 061115.S	419208.477	
721982.386	4294318.129	4802	11-Jun-15	BORE HOLE 1 061115.S	419391.488	
721982.074	4294317.034	4803	11-Jun-15	BORE HOLE 1 061115.S	419262.601	
721982.003	4294327.395	4805	11-Jun-15	BORE HOLE 1 061115.S	419230.599	
721982.551	4294320.266	4809	11-Jun-15	BORE HOLE 1 061115.S	419180.476	
721982.619	4294317.968	4813	11-Jun-15	BORE HOLE 1 061115.S	419401.404	
721981.779	4294318.123	4814	11-Jun-15	BORE HOLE 1 061115.S	419260.458	
721982.531	4294318.024	4814	11-Jun-15	BORE HOLE 1 061115.S	419493.605	
721982.558	4294318.054	4816	11-Jun-15	BORE HOLE 1 061115.S	419429.374	
721982.15	4294316.589	4817	11-Jun-15	BORE HOLE 1 061115.S	419263.466	
721985.322	4294309.398	4817	11-Jun-15	BORE HOLE 1 061115.S	419278.458	
721982.497	4294318.105	4821	11-Jun-15	BORE HOLE 1 061115.S	419464.541	

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721982.537	4294318.017	4823	11-Jun-15	BORE HOLE 1 061115.S	419495.536	
721981.917	4294326.191	4826	11-Jun-15	BORE HOLE 1 061115.S	419170.346	
721982.249	4294319.723	4829	11-Jun-15	BORE HOLE 1 061115.S	419606.33	
721987.069	4294309.078	4837	11-Jun-15	BORE HOLE 1 061115.S	418949.712	
721980.418	4294327.783	4837	11-Jun-15	BORE HOLE 1 061115.S	419560.461	
721982.629	4294317.966	4837	11-Jun-15	BORE HOLE 1 061115.S	419402.462	
721982.506	4294318.189	4837	11-Jun-15	BORE HOLE 1 061115.S	419419.377	
721982.598	4294318.014	4837	11-Jun-15	BORE HOLE 1 061115.S	419452.445	
721982.557	4294318.049	4839	11-Jun-15	BORE HOLE 1 061115.S	419430.407	
721982.492	4294318.105	4842	11-Jun-15	BORE HOLE 1 061115.S	419465.372	
721982.544	4294318.065	4844	11-Jun-15	BORE HOLE 1 061115.S	419458.448	
721982.569	4294318.048	4848	11-Jun-15	BORE HOLE 1 061115.S	419455.342	
721981.165	4294329.548	4856	11-Jun-15	BORE HOLE 1 061115.S	419362.596	
721982.513	4294318.093	4857	11-Jun-15	BORE HOLE 1 061115.S	419461.368	
721982.51	4294318.168	4858	11-Jun-15	BORE HOLE 1 061115.S	419420.448	
721984.539	4294312.61	4860	11-Jun-15	BORE HOLE 1 061115.S	419291.566	
721985.175	4294309.214	4863	11-Jun-15	BORE HOLE 1 061115.S	419285.464	
721980.442	4294330.784	4863	11-Jun-15	BORE HOLE 1 061115.S	419365.657	
721980.157	4294329.378	4866	11-Jun-15	BORE HOLE 1 061115.S	419240.405	
721982.216	4294316.229	4869	11-Jun-15	BORE HOLE 1 061115.S	419264.15	
721985.608	4294309.029	4869	11-Jun-15	BORE HOLE 1 061115.S	419279.513	
721982.168	4294318.25	4874	11-Jun-15	BORE HOLE 1 061115.S	419387.453	
721984.307	4294313.195	4875	11-Jun-15	BORE HOLE 1 061115.S	419193.483	
721982.586	4294318.039	4875	11-Jun-15	BORE HOLE 1 061115.S	419443.473	
721981.483	4294327.603	4876	11-Jun-15	BORE HOLE 1 061115.S	419139.582	
721982.115	4294326.975	4876	11-Jun-15	BORE HOLE 1 061115.S	419229.705	
721981.932	4294320.9	4880	11-Jun-15	BORE HOLE 1 061115.S	419580.213	
721983.093	4294318.4	4881	11-Jun-15	BORE HOLE 1 061115.S	419184.463	
721982.33	4294319.322	4886	11-Jun-15	BORE HOLE 1 061115.S	419599.451	
721984.431	4294312.195	4887	11-Jun-15	BORE HOLE 1 061115.S	419196.402	
721982.081	4294325.581	4890	11-Jun-15	BORE HOLE 1 061115.S	419171.486	
721982.451	4294317.974	4892	11-Jun-15	BORE HOLE 1 061115.S	419497.587	
721981.248	4294325.056	4894	11-Jun-15	BORE HOLE 1 061115.S	419375.516	
721980.536	4294328.814	4899	11-Jun-15	BORE HOLE 1 061115.S	419369.613	
721986.118	4294307.976	4901	11-Jun-15	BORE HOLE 1 061115.S	419517.353	
721983.318	4294320.525	4902	11-Jun-15	BORE HOLE 1 061115.S	419583.435	
721982.523	4294318.04	4909	11-Jun-15	BORE HOLE 1 061115.S	419478.341	
721985.117	4294309.663	4910	11-Jun-15	BORE HOLE 1 061115.S	419277.636	
721984.006	4294310.992	4914	11-Jun-15	BORE HOLE 1 061115.S	419536.219	
721981.543	4294327.049	4915	11-Jun-15	BORE HOLE 1 061115.S	419150.521	
721986.983	4294304.937	4916	11-Jun-15	BORE HOLE 1 061115.S	419522.512	
721985.757	4294306.671	4921	11-Jun-15	BORE HOLE 1 061115.S	419528.413	
721982.999	4294319.692	4921	11-Jun-15	BORE HOLE 1 061115.S	419596.379	
721981.485	4294324.104	4922	11-Jun-15	BORE HOLE 1 061115.S	419377.493	
721981.539	4294327.036	4924	11-Jun-15	BORE HOLE 1 061115.S	419149.666	
721981.809	4294326.52	4927	11-Jun-15	BORE HOLE 1 061115.S	419169.712	
721982.488	4294318.103	4928	11-Jun-15	BORE HOLE 1 061115.S	419466.25	

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721982.524	4294320.13	4929	11-Jun-15	BORE HOLE 1 061115.S	419593.307	
721987.427	4294308.754	4930	11-Jun-15	BORE HOLE 1 061115.S	418960.449	
721982.409	4294317.924	4934	11-Jun-15	BORE HOLE 1 061115.S	419498.35	
721982.533	4294318.02	4935	11-Jun-15	BORE HOLE 1 061115.S	419494.184	
721981.604	4294322.284	4936	11-Jun-15	BORE HOLE 1 061115.S	419380.36	
721982.533	4294318.032	4938	11-Jun-15	BORE HOLE 1 061115.S	419482.593	
721983.504	4294315.637	4939	11-Jun-15	BORE HOLE 1 061115.S	419188.473	
721981.908	4294319.584	4941	11-Jun-15	BORE HOLE 1 061115.S	419601.473	
721982.616	4294318.008	4942	11-Jun-15	BORE HOLE 1 061115.S	419449.308	
721986.583	4294306.653	4943	11-Jun-15	BORE HOLE 1 061115.S	419519.687	
721982.488	4294316.882	4945	11-Jun-15	BORE HOLE 1 061115.S	419501.612	
721982.497	4294318.077	4949	11-Jun-15	BORE HOLE 1 061115.S	419473.495	
721982.509	4294320.804	4950	11-Jun-15	BORE HOLE 1 061115.S	419179.597	
721982.489	4294318.089	4959	11-Jun-15	BORE HOLE 1 061115.S	419472.346	
721983.461	4294319.655	4961	11-Jun-15	BORE HOLE 1 061115.S	419214.63	
721986.255	4294307.547	4962	11-Jun-15	BORE HOLE 1 061115.S	419518.409	
721980.715	4294327.135	4964	11-Jun-15	BORE HOLE 1 061115.S	419244.336	
721982.563	4294318.058	4969	11-Jun-15	BORE HOLE 1 061115.S	419456.473	
721983.177	4294312.945	4972	11-Jun-15	BORE HOLE 1 061115.S	419539.521	
721983.417	4294317.74	4975	11-Jun-15	BORE HOLE 1 061115.S	419326.387	
721987.094	4294308.925	4976	11-Jun-15	BORE HOLE 1 061115.S	418943.58	
721982.084	4294325.177	4977	11-Jun-15	BORE HOLE 1 061115.S	419355.695	
721987.09	4294309.029	4978	11-Jun-15	BORE HOLE 1 061115.S	418950.593	
721983.532	4294317.993	4981	11-Jun-15	BORE HOLE 1 061115.S	419339.48	
721982.575	4294318.033	4982	11-Jun-15	BORE HOLE 1 061115.S	419437.48	
721982.418	4294322.844	4984	11-Jun-15	BORE HOLE 1 061115.S	419351.67	
721982.244	4294318.053	4984	11-Jun-15	BORE HOLE 1 061115.S	419388.531	
721980.547	4294327.698	4985	11-Jun-15	BORE HOLE 1 061115.S	419243.497	
721981.281	4294322.922	4992	11-Jun-15	BORE HOLE 1 061115.S	419553.382	
721981.501	4294321.635	4996	11-Jun-15	BORE HOLE 1 061115.S	419381.388	
721982.646	4294317.983	4996	11-Jun-15	BORE HOLE 1 061115.S	419405.282	
721981.021	4294326.405	4998	11-Jun-15	BORE HOLE 1 061115.S	419373.471	
721982.554	4294318.065	5002	11-Jun-15	BORE HOLE 1 061115.S	419428.452	
721982.484	4294318.102	5003	11-Jun-15	BORE HOLE 1 061115.S	419469.519	
721982.611	4294322.066	5008	11-Jun-15	BORE HOLE 1 061115.S	419350.484	
721980.309	4294326.109	5012	11-Jun-15	BORE HOLE 1 061115.S	419572.545	
721983.424	4294317.598	5012	11-Jun-15	BORE HOLE 1 061115.S	419313.593	
721980.47	4294327.279	5013	11-Jun-15	BORE HOLE 1 061115.S	419559.639	
721987.275	4294308.837	5017	11-Jun-15	BORE HOLE 1 061115.S	418959.598	
721984.709	4294310.736	5018	11-Jun-15	BORE HOLE 1 061115.S	419512.342	
721983.195	4294318.92	5019	11-Jun-15	BORE HOLE 1 061115.S	419341.494	
721981.562	4294327.38	5023	11-Jun-15	BORE HOLE 1 061115.S	419140.424	
721982.541	4294318.109	5026	11-Jun-15	BORE HOLE 1 061115.S	419425.452	
721983.102	4294319.303	5028	11-Jun-15	BORE HOLE 1 061115.S	419342.303	
721983.476	4294317.392	5038	11-Jun-15	BORE HOLE 1 061115.S	419305.436	
721984.803	4294310.605	5039	11-Jun-15	BORE HOLE 1 061115.S	419288.611	
721982.545	4294318.101	5039	11-Jun-15	BORE HOLE 1 061115.S	419426.303	

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721983.639	4294311.727	5041	11-Jun-15	BORE HOLE 1 061115.S	419537.514	
721984.159	4294311.236	5042	11-Jun-15	BORE HOLE 1 061115.S	419274.459	
721983.375	4294320.905	5046	11-Jun-15	BORE HOLE 1 061115.S	419216.477	
721983.216	4294317.788	5048	11-Jun-15	BORE HOLE 1 061115.S	419185.589	
721982.526	4294318.036	5049	11-Jun-15	BORE HOLE 1 061115.S	419479.433	
721981.295	4294328.139	5056	11-Jun-15	BORE HOLE 1 061115.S	419138.431	
721982.481	4294324.372	5059	11-Jun-15	BORE HOLE 1 061115.S	419223.564	
721981.417	4294322.231	5062	11-Jun-15	BORE HOLE 1 061115.S	419552.269	
721981.114	4294325.677	5062	11-Jun-15	BORE HOLE 1 061115.S	419374.476	
721981.409	4294324.572	5070	11-Jun-15	BORE HOLE 1 061115.S	419376.616	
721983.965	4294311.831	5071	11-Jun-15	BORE HOLE 1 061115.S	419273.538	
721985.336	4294308.738	5072	11-Jun-15	BORE HOLE 1 061115.S	419284.456	
721986.824	4294304.904	5072	11-Jun-15	BORE HOLE 1 061115.S	419524.496	
721983.296	4294316.183	5074	11-Jun-15	BORE HOLE 1 061115.S	419187.541	
721981.494	4294326.979	5076	11-Jun-15	BORE HOLE 1 061115.S	419146.351	
721987.241	4294308.362	5077	11-Jun-15	BORE HOLE 1 061115.S	418861.61	
721982.896	4294318.79	5077	11-Jun-15	BORE HOLE 1 061115.S	419183.498	
721987.283	4294308.181	5079	11-Jun-15	BORE HOLE 1 061115.S	418891.655	
721981.606	4294327.232	5080	11-Jun-15	BORE HOLE 1 061115.S	419167.471	
721984.546	4294311.12	5081	11-Jun-15	BORE HOLE 1 061115.S	419511.443	
721984.479	4294313.368	5081	11-Jun-15	BORE HOLE 1 061115.S	419292.342	
721983.547	4294317.621	5081	11-Jun-15	BORE HOLE 1 061115.S	419336.339	
721983.351	4294313.876	5088	11-Jun-15	BORE HOLE 1 061115.S	419506.446	
721981.75	4294318.602	5088	11-Jun-15	BORE HOLE 1 061115.S	419588.465	
721983.019	4294314.218	5090	11-Jun-15	BORE HOLE 1 061115.S	419269.603	
721982.56	4294318.051	5091	11-Jun-15	BORE HOLE 1 061115.S	419432.344	
721982.463	4294321.477	5094	11-Jun-15	BORE HOLE 1 061115.S	419178.605	
721981.369	4294326.997	5095	11-Jun-15	BORE HOLE 1 061115.S	419142.412	
721983.419	4294317.721	5095	11-Jun-15	BORE HOLE 1 061115.S	419324.349	
721982.998	4294320.077	5097	11-Jun-15	BORE HOLE 1 061115.S	419594.454	
721981.201	4294324.257	5099	11-Jun-15	BORE HOLE 1 061115.S	419250.591	
721982.52	4294318.045	5101	11-Jun-15	BORE HOLE 1 061115.S	419477.488	
721981.167	4294323.494	5103	11-Jun-15	BORE HOLE 1 061115.S	419251.76	
721979.778	4294330.088	5106	11-Jun-15	BORE HOLE 1 061115.S	419564.161	
721982.58	4294317.972	5111	11-Jun-15	BORE HOLE 1 061115.S	419398.39	
721981.387	4294319.504	5114	11-Jun-15	BORE HOLE 1 061115.S	419257.548	
721984.367	4294310.743	5116	11-Jun-15	BORE HOLE 1 061115.S	419275.352	
721984.609	4294311.721	5121	11-Jun-15	BORE HOLE 1 061115.S	419290.451	
721981.252	4294328.85	5127	11-Jun-15	BORE HOLE 1 061115.S	419361.487	
721981.524	4294327.007	5128	11-Jun-15	BORE HOLE 1 061115.S	419148.516	
721985.869	4294308.371	5128	11-Jun-15	BORE HOLE 1 061115.S	419282.575	
721987.238	4294308.427	5129	11-Jun-15	BORE HOLE 1 061115.S	418921.728	
721980.212	4294328.819	5129	11-Jun-15	BORE HOLE 1 061115.S	419562.266	
721987.207	4294308.529	5130	11-Jun-15	BORE HOLE 1 061115.S	418924.412	
721981.628	4294327.229	5131	11-Jun-15	BORE HOLE 1 061115.S	419165.473	
721985.294	4294309.804	5140	11-Jun-15	BORE HOLE 1 061115.S	419514.34	
721982.526	4294318.036	5142	11-Jun-15	BORE HOLE 1 061115.S	419480.348	

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721981.614	4294328.903	5150	11-Jun-15	BORE HOLE 1 061115.S	419232.636	
721986.922	4294304.842	5150	11-Jun-15	BORE HOLE 1 061115.S	419523.354	
721983.737	4294312.682	5153	11-Jun-15	BORE HOLE 1 061115.S	419272.46	
721983.449	4294319.296	5154	11-Jun-15	BORE HOLE 1 061115.S	419213.705	
721984.362	4294310.099	5156	11-Jun-15	BORE HOLE 1 061115.S	419534.522	
721982.548	4294318.082	5160	11-Jun-15	BORE HOLE 1 061115.S	419427.492	
721983.424	4294317.725	5168	11-Jun-15	BORE HOLE 1 061115.S	419327.363	
721982.61	4294317.968	5169	11-Jun-15	BORE HOLE 1 061115.S	419400.499	
721987.058	4294309.063	5172	11-Jun-15	BORE HOLE 1 061115.S	418948.598	
721982.674	4294316.248	5174	11-Jun-15	BORE HOLE 1 061115.S	419502.488	
721982.883	4294319.539	5175	11-Jun-15	BORE HOLE 1 061115.S	419597.448	
721987.09	4294308.924	5179	11-Jun-15	BORE HOLE 1 061115.S	418942.452	
721982.976	4294319.841	5180	11-Jun-15	BORE HOLE 1 061115.S	419346.594	
721982.992	4294318.813	5182	11-Jun-15	BORE HOLE 1 061115.S	419586.484	
721983.453	4294317.402	5182	11-Jun-15	BORE HOLE 1 061115.S	419306.411	
721987.096	4294308.911	5184	11-Jun-15	BORE HOLE 1 061115.S	418944.452	
721987.047	4294309.086	5192	11-Jun-15	BORE HOLE 1 061115.S	418957.713	
721980.025	4294327.139	5193	11-Jun-15	BORE HOLE 1 061115.S	419569.604	
721983.422	4294320.301	5198	11-Jun-15	BORE HOLE 1 061115.S	419215.612	
721987.135	4294308.985	5200	11-Jun-15	BORE HOLE 1 061115.S	418958.592	
721983.439	4294317.466	5202	11-Jun-15	BORE HOLE 1 061115.S	419307.702	
721983.666	4294317.961	5203	11-Jun-15	BORE HOLE 1 061115.S	419210.637	
721981.551	4294320.988	5203	11-Jun-15	BORE HOLE 1 061115.S	419382.545	
721985.999	4294310.638	5211	11-Jun-15	BORE HOLE 1 061115.S	419096.662	
721979.264	4294329.218	5212	11-Jun-15	BORE HOLE 1 061115.S	419566.441	
721983.429	4294312.196	5213	11-Jun-15	BORE HOLE 1 061115.S	419538.278	
721987.287	4294308.183	5215	11-Jun-15	BORE HOLE 1 061115.S	418887.578	
721987.249	4294308.331	5218	11-Jun-15	BORE HOLE 1 061115.S	418862.599	
721979.867	4294327.78	5218	11-Jun-15	BORE HOLE 1 061115.S	419568.477	
721982.917	4294320.535	5218	11-Jun-15	BORE HOLE 1 061115.S	419348.234	
721982.575	4294318.038	5218	11-Jun-15	BORE HOLE 1 061115.S	419454.448	
721982.906	4294313.551	5219	11-Jun-15	BORE HOLE 1 061115.S	419540.519	
721984.106	4294314.04	5220	11-Jun-15	BORE HOLE 1 061115.S	419203.394	
721982.263	4294318.218	5220	11-Jun-15	BORE HOLE 1 061115.S	419546.419	
721981.745	4294320.494	5220	11-Jun-15	BORE HOLE 1 061115.S	419549.626	
721987.266	4294308.226	5221	11-Jun-15	BORE HOLE 1 061115.S	418854.559	
721981.462	4294326.985	5224	11-Jun-15	BORE HOLE 1 061115.S	419145.55	
721983.48	4294317.652	5224	11-Jun-15	BORE HOLE 1 061115.S	419331.498	
721982.488	4294318.099	5224	11-Jun-15	BORE HOLE 1 061115.S	419467.341	
721982.19	4294326.084	5225	11-Jun-15	BORE HOLE 1 061115.S	419227.537	
721982.556	4294318.061	5225	11-Jun-15	BORE HOLE 1 061115.S	419457.35	
721982.486	4294322.231	5230	11-Jun-15	BORE HOLE 1 061115.S	419177.485	
721982.5	4294318.053	5232	11-Jun-15	BORE HOLE 1 061115.S	419490.477	
721984.18	4294310.548	5232	11-Jun-15	BORE HOLE 1 061115.S	419535.384	
721987.359	4294307.998	5233	11-Jun-15	BORE HOLE 1 061115.S	418842.674	
721981.14	4294325.971	5233	11-Jun-15	BORE HOLE 1 061115.S	419246.605	
721980.787	4294325.802	5233	11-Jun-15	BORE HOLE 1 061115.S	419557.427	

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721981.166	4294330.373	5234	11-Jun-15	BORE HOLE 1 061115.S	419236.371	
721982.911	4294319.792	5235	11-Jun-15	BORE HOLE 1 061115.S	419345.493	
721980.904	4294326.446	5237	11-Jun-15	BORE HOLE 1 061115.S	419245.544	
721987.237	4294308.449	5238	11-Jun-15	BORE HOLE 1 061115.S	418920.485	
721983.423	4294317.735	5239	11-Jun-15	BORE HOLE 1 061115.S	419328.494	
721987.091	4294308.891	5243	11-Jun-15	BORE HOLE 1 061115.S	418940.565	
721983.435	4294317.495	5243	11-Jun-15	BORE HOLE 1 061115.S	419308.49	
721980.215	4294326.591	5244	11-Jun-15	BORE HOLE 1 061115.S	419571.471	
721984.384	4294311.66	5246	11-Jun-15	BORE HOLE 1 061115.S	419510.345	
721980.639	4294326.397	5246	11-Jun-15	BORE HOLE 1 061115.S	419558.295	
721982.074	4294318.659	5253	11-Jun-15	BORE HOLE 1 061115.S	419386.489	
721980.343	4294329.499	5256	11-Jun-15	BORE HOLE 1 061115.S	419368.547	
721983.407	4294317.741	5258	11-Jun-15	BORE HOLE 1 061115.S	419325.497	
721982.389	4294324.747	5261	11-Jun-15	BORE HOLE 1 061115.S	419224.405	
721983.737	4294317.44	5263	11-Jun-15	BORE HOLE 1 061115.S	419209.518	
721984.666	4294311.282	5265	11-Jun-15	BORE HOLE 1 061115.S	419289.726	
721981.183	4294328.651	5269	11-Jun-15	BORE HOLE 1 061115.S	419137.59	
721983.552	4294313.367	5271	11-Jun-15	BORE HOLE 1 061115.S	419271.535	
721981.857	4294327.991	5275	11-Jun-15	BORE HOLE 1 061115.S	419231.438	
721981.408	4294320.949	5275	11-Jun-15	BORE HOLE 1 061115.S	419579.433	
721986.028	4294308.525	5277	11-Jun-15	BORE HOLE 1 061115.S	419281.362	
721982.592	4294318.029	5277	11-Jun-15	BORE HOLE 1 061115.S	419444.347	
721983.063	4294319.808	5282	11-Jun-15	BORE HOLE 1 061115.S	419595.604	
721982.086	4294319.372	5291	11-Jun-15	BORE HOLE 1 061115.S	419600.354	
721987.317	4294308.053	5292	11-Jun-15	BORE HOLE 1 061115.S	418907.545	
721982.595	4294317.965	5297	11-Jun-15	BORE HOLE 1 061115.S	419399.359	
721985.042	4294310.255	5298	11-Jun-15	BORE HOLE 1 061115.S	419513.48	
721987.276	4294308.217	5301	11-Jun-15	BORE HOLE 1 061115.S	418852.627	
721982.516	4294318.057	5303	11-Jun-15	BORE HOLE 1 061115.S	419487.488	
721981.243	4294322.976	5308	11-Jun-15	BORE HOLE 1 061115.S	419252.53	
721982.219	4294326.375	5309	11-Jun-15	BORE HOLE 1 061115.S	419228.34	
721982.488	4294318.099	5309	11-Jun-15	BORE HOLE 1 061115.S	419468.458	
721983.46	4294319.841	5315	11-Jun-15	BORE HOLE 1 061115.S	419584.514	
721985.446	4294307.275	5318	11-Jun-15	BORE HOLE 1 061115.S	419529.519	
721981.895	4294319.749	5320	11-Jun-15	BORE HOLE 1 061115.S	419548.526	
721984.18	4294313.482	5321	11-Jun-15	BORE HOLE 1 061115.S	419202.509	
721983.495	4294317.614	5322	11-Jun-15	BORE HOLE 1 061115.S	419334.436	
721987.238	4294308.34	5325	11-Jun-15	BORE HOLE 1 061115.S	418859.59	
721985.769	4294312.251	5326	11-Jun-15	BORE HOLE 1 061115.S	419099.52	
721987.314	4294308.084	5328	11-Jun-15	BORE HOLE 1 061115.S	418906.467	
721987.194	4294308.485	5330	11-Jun-15	BORE HOLE 1 061115.S	418916.448	
721981.501	4294326.987	5330	11-Jun-15	BORE HOLE 1 061115.S	419147.632	
721982.582	4294318.029	5330	11-Jun-15	BORE HOLE 1 061115.S	419453.537	
721980.325	4294328.35	5331	11-Jun-15	BORE HOLE 1 061115.S	419561.508	
721979.172	4294330.001	5332	11-Jun-15	BORE HOLE 1 061115.S	419565.35	
721982.906	4294322.835	5337	11-Jun-15	BORE HOLE 1 061115.S	419220.423	
721981.46	4294327.084	5338	11-Jun-15	BORE HOLE 1 061115.S	419141.597	

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721981.976	4294319.163	5338	11-Jun-15	BORE HOLE 1 061115.S	419385.501	
721985.875	4294308.721	5341	11-Jun-15	BORE HOLE 1 061115.S	419280.417	
721983.514	4294317.608	5341	11-Jun-15	BORE HOLE 1 061115.S	419335.323	
721982.187	4294324.502	5341	11-Jun-15	BORE HOLE 1 061115.S	419354.599	
721982.602	4294323.814	5342	11-Jun-15	BORE HOLE 1 061115.S	419222.452	
721983.48	4294317.433	5344	11-Jun-15	BORE HOLE 1 061115.S	419304.441	
721981.358	4294325.089	5346	11-Jun-15	BORE HOLE 1 061115.S	419249.328	
721982.201	4294319.696	5349	11-Jun-15	BORE HOLE 1 061115.S	419607.406	
721982.383	4294316.826	5352	11-Jun-15	BORE HOLE 1 061115.S	419544.44	
721986.885	4294305.483	5353	11-Jun-15	BORE HOLE 1 061115.S	419521.423	
721987.285	4294308.178	5354	11-Jun-15	BORE HOLE 1 061115.S	418892.505	
721987.258	4294308.304	5358	11-Jun-15	BORE HOLE 1 061115.S	418863.485	
721982.99	4294319.728	5363	11-Jun-15	BORE HOLE 1 061115.S	419343.493	
721987.235	4294308.391	5366	11-Jun-15	BORE HOLE 1 061115.S	418935.756	
721983.115	4294315.186	5368	11-Jun-15	BORE HOLE 1 061115.S	419504.5	
721987.269	4294308.281	5369	11-Jun-15	BORE HOLE 1 061115.S	418864.671	
721982.868	4294314.656	5370	11-Jun-15	BORE HOLE 1 061115.S	419268.453	
721983.88	4294314.599	5371	11-Jun-15	BORE HOLE 1 061115.S	419190.6	
721984.365	4294312.888	5374	11-Jun-15	BORE HOLE 1 061115.S	419194.366	
721980.423	4294325.449	5377	11-Jun-15	BORE HOLE 1 061115.S	419573.517	
721981.614	4294321.037	5381	11-Jun-15	BORE HOLE 1 061115.S	419550.442	
721983.489	4294317.626	5381	11-Jun-15	BORE HOLE 1 061115.S	419333.561	
721987.345	4294308.015	5384	11-Jun-15	BORE HOLE 1 061115.S	418908.437	
721980.65	4294322.915	5385	11-Jun-15	BORE HOLE 1 061115.S	419576.431	
721987.277	4294308.155	5387	11-Jun-15	BORE HOLE 1 061115.S	418897.771	
721987.095	4294309.012	5387	11-Jun-15	BORE HOLE 1 061115.S	418951.472	
721987.221	4294308.469	5388	11-Jun-15	BORE HOLE 1 061115.S	418936.406	
721987.602	4294308.605	5390	11-Jun-15	BORE HOLE 1 061115.S	418961.625	
721981.835	4294319.799	5397	11-Jun-15	BORE HOLE 1 061115.S	419384.429	
721987.215	4294308.553	5401	11-Jun-15	BORE HOLE 1 061115.S	418937.667	
721983.428	4294317.527	5402	11-Jun-15	BORE HOLE 1 061115.S	419309.45	
721985.674	4294308.335	5404	11-Jun-15	BORE HOLE 1 061115.S	419283.226	
721987.317	4294308.184	5407	11-Jun-15	BORE HOLE 1 061115.S	418880.347	
721982.51	4294318.058	5408	11-Jun-15	BORE HOLE 1 061115.S	419489.339	
721982.792	4294321.265	5410	11-Jun-15	BORE HOLE 1 061115.S	419349.348	
721986.039	4294310.444	5411	11-Jun-15	BORE HOLE 1 061115.S	419095.579	
721987.242	4294308.37	5413	11-Jun-15	BORE HOLE 1 061115.S	418933.619	
721982.559	4294315.758	5416	11-Jun-15	BORE HOLE 1 061115.S	419265.506	
721983.423	4294317.593	5418	11-Jun-15	BORE HOLE 1 061115.S	419312.468	
721987.352	4294307.994	5419	11-Jun-15	BORE HOLE 1 061115.S	418843.656	
721983.233	4294314.649	5419	11-Jun-15	BORE HOLE 1 061115.S	419505.341	
721982.078	4294318.991	5419	11-Jun-15	BORE HOLE 1 061115.S	419547.426	
721982.367	4294318.647	5420	11-Jun-15	BORE HOLE 1 061115.S	419587.467	
721980.882	4294327.098	5420	11-Jun-15	BORE HOLE 1 061115.S	419372.446	
721987.348	4294307.93	5423	11-Jun-15	BORE HOLE 1 061115.S	418845.696	
721981.485	4294321.724	5427	11-Jun-15	BORE HOLE 1 061115.S	419551.488	
721987.301	4294308.11	5432	11-Jun-15	BORE HOLE 1 061115.S	418903.562	

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721987.313	4294308.092	5432	11-Jun-15	BORE HOLE 1 061115.S	418905.832	
721983.427	4294317.568	5432	11-Jun-15	BORE HOLE 1 061115.S	419311.494	
721984.157	4294313.067	5433	11-Jun-15	BORE HOLE 1 061115.S	419201.461	
721987.067	4294309.021	5435	11-Jun-15	BORE HOLE 1 061115.S	418947.537	
721984.364	4294314.276	5438	11-Jun-15	BORE HOLE 1 061115.S	419293.481	
721981.262	4294325.681	5441	11-Jun-15	BORE HOLE 1 061115.S	419247.478	
721987.097	4294308.836	5442	11-Jun-15	BORE HOLE 1 061115.S	418939.375	
721982.6	4294318.019	5443	11-Jun-15	BORE HOLE 1 061115.S	419445.466	
721981.39	4294328.131	5461	11-Jun-15	BORE HOLE 1 061115.S	419360.345	
721981.715	4294320.349	5461	11-Jun-15	BORE HOLE 1 061115.S	419383.6	
721982.966	4294320.168	5463	11-Jun-15	BORE HOLE 1 061115.S	419347.559	
721985.949	4294311.562	5469	11-Jun-15	BORE HOLE 1 061115.S	419098.457	
721982.735	4294323.311	5470	11-Jun-15	BORE HOLE 1 061115.S	419221.38	
721987.225	4294308.489	5472	11-Jun-15	BORE HOLE 1 061115.S	418919.587	
721983.484	4294317.638	5473	11-Jun-15	BORE HOLE 1 061115.S	419332.418	
721987.344	4294307.99	5474	11-Jun-15	BORE HOLE 1 061115.S	418844.546	
721982.304	4294323.305	5474	11-Jun-15	BORE HOLE 1 061115.S	419352.489	
721987.312	4294308.181	5479	11-Jun-15	BORE HOLE 1 061115.S	418881.809	
721983.58	4294318.323	5484	11-Jun-15	BORE HOLE 1 061115.S	419211.368	
721984.07	4294312.647	5486	11-Jun-15	BORE HOLE 1 061115.S	419200.367	
721987.474	4294307.929	5496	11-Jun-15	BORE HOLE 1 061115.S	418846.597	
721986.721	4294306.163	5503	11-Jun-15	BORE HOLE 1 061115.S	419520.367	
721981.254	4294330.015	5505	11-Jun-15	BORE HOLE 1 061115.S	419235.452	
721981.415	4294329.371	5506	11-Jun-15	BORE HOLE 1 061115.S	419233.697	
721981.634	4294327.261	5511	11-Jun-15	BORE HOLE 1 061115.S	419166.549	
721982.376	4294319.726	5515	11-Jun-15	BORE HOLE 1 061115.S	419609.205	
721980.371	4294329.862	5517	11-Jun-15	BORE HOLE 1 061115.S	419239.604	
721980.013	4294329.643	5517	11-Jun-15	BORE HOLE 1 061115.S	419563.398	
721987.143	4294308.762	5519	11-Jun-15	BORE HOLE 1 061115.S	418927.592	
721987.146	4294308.822	5520	11-Jun-15	BORE HOLE 1 061115.S	418929.589	
721980.537	4294323.831	5520	11-Jun-15	BORE HOLE 1 061115.S	419575.373	
721987.286	4294308.209	5521	11-Jun-15	BORE HOLE 1 061115.S	418870.503	
721983.476	4294318.862	5522	11-Jun-15	BORE HOLE 1 061115.S	419212.632	
721984.461	4294312.479	5528	11-Jun-15	BORE HOLE 1 061115.S	419195.665	
721987.316	4294308.194	5532	11-Jun-15	BORE HOLE 1 061115.S	418878.583	
721982.392	4294316.039	5536	11-Jun-15	BORE HOLE 1 061115.S	419543.405	
721984.036	4294312.333	5539	11-Jun-15	BORE HOLE 1 061115.S	419199.613	
721980.968	4294330.587	5539	11-Jun-15	BORE HOLE 1 061115.S	419237.454	
721982.678	4294314.211	5546	11-Jun-15	BORE HOLE 1 061115.S	419541.383	
721987.251	4294308.313	5547	11-Jun-15	BORE HOLE 1 061115.S	418858.674	
721982.515	4294318.057	5548	11-Jun-15	BORE HOLE 1 061115.S	419488.437	
721982.292	4294319.686	5551	11-Jun-15	BORE HOLE 1 061115.S	419608.378	
721987.223	4294308.535	5555	11-Jun-15	BORE HOLE 1 061115.S	418931.749	
721983.429	4294317.589	5558	11-Jun-15	BORE HOLE 1 061115.S	419315.595	
721987.235	4294308.362	5560	11-Jun-15	BORE HOLE 1 061115.S	418860.487	
721987.186	4294308.561	5563	11-Jun-15	BORE HOLE 1 061115.S	418917.589	
721984.051	4294314.167	5564	11-Jun-15	BORE HOLE 1 061115.S	419191.691	

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721983.433	4294317.593	5564	11-Jun-15	BORE HOLE 1 061115.S	419316.474	
721983.439	4294317.593	5567	11-Jun-15	BORE HOLE 1 061115.S	419317.346	
721983.242	4294313.886	5571	11-Jun-15	BORE HOLE 1 061115.S	419270.443	
721982.364	4294317.499	5574	11-Jun-15	BORE HOLE 1 061115.S	419545.468	
721984.099	4294315.482	5574	11-Jun-15	BORE HOLE 1 061115.S	419295.484	
721983.661	4294315.168	5576	11-Jun-15	BORE HOLE 1 061115.S	419189.342	
721984.558	4294309.642	5593	11-Jun-15	BORE HOLE 1 061115.S	419533.646	
721987.157	4294308.691	5595	11-Jun-15	BORE HOLE 1 061115.S	418938.496	
721983.436	4294317.647	5597	11-Jun-15	BORE HOLE 1 061115.S	419321.257	
721982.462	4294315.227	5602	11-Jun-15	BORE HOLE 1 061115.S	419542.511	
721983.427	4294317.544	5603	11-Jun-15	BORE HOLE 1 061115.S	419310.347	
721986.28	4294310.745	5605	11-Jun-15	BORE HOLE 1 061115.S	419093.559	
721987.305	4294308.178	5607	11-Jun-15	BORE HOLE 1 061115.S	418884.688	
721984.089	4294319.716	5607	11-Jun-15	BORE HOLE 1 061115.S	419114.413	
721981.172	4294329.272	5608	11-Jun-15	BORE HOLE 1 061115.S	419136.434	
721981.405	4294326.969	5608	11-Jun-15	BORE HOLE 1 061115.S	419144.436	
721984.181	4294312.123	5608	11-Jun-15	BORE HOLE 1 061115.S	419509.479	
721987.31	4294308.181	5609	11-Jun-15	BORE HOLE 1 061115.S	418882.437	
721981.67	4294327.236	5615	11-Jun-15	BORE HOLE 1 061115.S	419164.354	
721987.086	4294309.035	5618	11-Jun-15	BORE HOLE 1 061115.S	418952.452	
721984.008	4294314.769	5621	11-Jun-15	BORE HOLE 1 061115.S	419204.425	
721979.63	4294328.612	5624	11-Jun-15	BORE HOLE 1 061115.S	419567.373	
721981.988	4294325.697	5627	11-Jun-15	BORE HOLE 1 061115.S	419356.548	
721987.093	4294308.901	5634	11-Jun-15	BORE HOLE 1 061115.S	418941.64	
721983.683	4294317.45	5637	11-Jun-15	BORE HOLE 1 061115.S	419300.606	
721987.173	4294308.685	5638	11-Jun-15	BORE HOLE 1 061115.S	418926.458	
721987.316	4294308.187	5639	11-Jun-15	BORE HOLE 1 061115.S	418879.698	
721987.083	4294309.048	5642	11-Jun-15	BORE HOLE 1 061115.S	418953.466	
721980.124	4294326.893	5643	11-Jun-15	BORE HOLE 1 061115.S	419570.379	
721987.27	4294308.214	5644	11-Jun-15	BORE HOLE 1 061115.S	418853.702	
721987.26	4294308.248	5644	11-Jun-15	BORE HOLE 1 061115.S	418855.705	
721987.234	4294308.425	5645	11-Jun-15	BORE HOLE 1 061115.S	418922.521	
721987.197	4294308.555	5649	11-Jun-15	BORE HOLE 1 061115.S	418918.441	
721983.426	4294317.59	5654	11-Jun-15	BORE HOLE 1 061115.S	419314.465	
721987.305	4294308.103	5658	11-Jun-15	BORE HOLE 1 061115.S	418904.694	
721980.941	4294321.347	5658	11-Jun-15	BORE HOLE 1 061115.S	419578.39	
721987.195	4294308.67	5662	11-Jun-15	BORE HOLE 1 061115.S	418930.705	
721983.439	4294317.601	5662	11-Jun-15	BORE HOLE 1 061115.S	419319.59	
721983.526	4294323.08	5668	11-Jun-15	BORE HOLE 1 061115.S	419119.488	
721987.3	4294308.115	5670	11-Jun-15	BORE HOLE 1 061115.S	418902.686	
721986.271	4294310.881	5672	11-Jun-15	BORE HOLE 1 061115.S	419092.405	
721986.155	4294310.592	5673	11-Jun-15	BORE HOLE 1 061115.S	419094.432	
721983.037	4294322.423	5689	11-Jun-15	BORE HOLE 1 061115.S	419219.593	
721987.364	4294307.991	5691	11-Jun-15	BORE HOLE 1 061115.S	418909.59	
721987.184	4294308.675	5691	11-Jun-15	BORE HOLE 1 061115.S	418925.857	
721985.671	4294313.5	5697	11-Jun-15	BORE HOLE 1 061115.S	419088.455	
721987.255	4294308.316	5700	11-Jun-15	BORE HOLE 1 061115.S	418934.522	

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721982.199	4294325.654	5702	11-Jun-15	BORE HOLE 1 061115.S	419226.437	
721983.649	4294322.558	5703	11-Jun-15	BORE HOLE 1 061115.S	419118.538	
721980.117	4294330.054	5718	11-Jun-15	BORE HOLE 1 061115.S	419367.471	
721987.365	4294308.162	5719	11-Jun-15	BORE HOLE 1 061115.S	418849.761	
721982.37	4294329.381	5725	11-Jun-15	BORE HOLE 1 061115.S	419046.61	
721982.273	4294325.256	5726	11-Jun-15	BORE HOLE 1 061115.S	419225.595	
721987.318	4294308.187	5729	11-Jun-15	BORE HOLE 1 061115.S	418877.688	
721987.248	4294308.263	5730	11-Jun-15	BORE HOLE 1 061115.S	418915.59	
721983.094	4294325.246	5730	11-Jun-15	BORE HOLE 1 061115.S	419123.654	
721982.877	4294315.735	5730	11-Jun-15	BORE HOLE 1 061115.S	419503.35	
721987.545	4294308.012	5731	11-Jun-15	BORE HOLE 1 061115.S	418847.592	
721987.284	4294308.173	5736	11-Jun-15	BORE HOLE 1 061115.S	418875.676	
721984.219	4294314.938	5736	11-Jun-15	BORE HOLE 1 061115.S	419294.55	
721983.429	4294317.706	5737	11-Jun-15	BORE HOLE 1 061115.S	419323.492	
721987.279	4294308.19	5738	11-Jun-15	BORE HOLE 1 061115.S	418871.693	
721987.676	4294308.586	5739	11-Jun-15	BORE HOLE 1 061115.S	418962.443	
721987.307	4294308.179	5742	11-Jun-15	BORE HOLE 1 061115.S	418883.559	
721983.172	4294321.875	5754	11-Jun-15	BORE HOLE 1 061115.S	419218.476	
721983.943	4294321.143	5758	11-Jun-15	BORE HOLE 1 061115.S	419116.423	
721987.286	4294308.183	5763	11-Jun-15	BORE HOLE 1 061115.S	418890.499	
721983.437	4294317.625	5765	11-Jun-15	BORE HOLE 1 061115.S	419320.467	
721980.776	4294321.942	5766	11-Jun-15	BORE HOLE 1 061115.S	419577.582	
721983.5	4294317.481	5767	11-Jun-15	BORE HOLE 1 061115.S	419303.388	
721987.258	4294308.272	5768	11-Jun-15	BORE HOLE 1 061115.S	418857.505	
721987.288	4294308.214	5771	11-Jun-15	BORE HOLE 1 061115.S	418851.521	
721984.816	4294309.021	5773	11-Jun-15	BORE HOLE 1 061115.S	419532.518	
721982.968	4294328.407	5774	11-Jun-15	BORE HOLE 1 061115.S	419053.547	
721987.3	4294308.179	5779	11-Jun-15	BORE HOLE 1 061115.S	418885.543	
721983.653	4294323.631	5783	11-Jun-15	BORE HOLE 1 061115.S	419071.652	
721983.382	4294319.235	5787	11-Jun-15	BORE HOLE 1 061115.S	419585.439	
721985.041	4294315.362	5790	11-Jun-15	BORE HOLE 1 061115.S	418979.731	
721982.231	4294323.894	5802	11-Jun-15	BORE HOLE 1 061115.S	419353.597	
721982.556	4294327.113	5806	11-Jun-15	BORE HOLE 1 061115.S	419127.615	
721983.475	4294317.683	5807	11-Jun-15	BORE HOLE 1 061115.S	419330.411	
721983.566	4294324.8	5811	11-Jun-15	BORE HOLE 1 061115.S	419069.485	
721981.842	4294326.319	5812	11-Jun-15	BORE HOLE 1 061115.S	419357.485	
721983.565	4294317.488	5813	11-Jun-15	BORE HOLE 1 061115.S	419302.492	
721980.485	4294324.683	5814	11-Jun-15	BORE HOLE 1 061115.S	419574.428	
721982.259	4294329.496	5816	11-Jun-15	BORE HOLE 1 061115.S	419051.544	
721981.488	4294327.597	5816	11-Jun-15	BORE HOLE 1 061115.S	419359.483	
721980.193	4294330.601	5818	11-Jun-15	BORE HOLE 1 061115.S	419366.394	
721984.023	4294320.474	5824	11-Jun-15	BORE HOLE 1 061115.S	419115.595	
721981.319	4294329.674	5827	11-Jun-15	BORE HOLE 1 061115.S	419234.551	
721987.278	4294308.184	5830	11-Jun-15	BORE HOLE 1 061115.S	418872.589	
721987.349	4294307.982	5830	11-Jun-15	BORE HOLE 1 061115.S	418913.575	
721987.295	4294308.13	5831	11-Jun-15	BORE HOLE 1 061115.S	418900.645	
721985.18	4294314.329	5833	11-Jun-15	BORE HOLE 1 061115.S	419103.566	

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721987.085	4294308.949	5835	11-Jun-15	BORE HOLE 1 061115.S	418946.496	
721987.28	4294308.18	5837	11-Jun-15	BORE HOLE 1 061115.S	418873.421	
721987.698	4294308.776	5838	11-Jun-15	BORE HOLE 1 061115.S	418963.594	
721987.093	4294308.916	5841	11-Jun-15	BORE HOLE 1 061115.S	418945.594	
721981.344	4294325.467	5850	11-Jun-15	BORE HOLE 1 061115.S	419248.342	
721983.83	4294316.858	5853	11-Jun-15	BORE HOLE 1 061115.S	419298.528	
721982.67	4294315.391	5859	11-Jun-15	BORE HOLE 1 061115.S	419266.536	
721983.861	4294323.245	5863	11-Jun-15	BORE HOLE 1 061115.S	419072.368	
721987.619	4294309.056	5864	11-Jun-15	BORE HOLE 1 061115.S	418964.587	
721981.801	4294329.994	5873	11-Jun-15	BORE HOLE 1 061115.S	419050.466	
721983.796	4294316.545	5876	11-Jun-15	BORE HOLE 1 061115.S	419207.595	
721987.229	4294308.464	5877	11-Jun-15	BORE HOLE 1 061115.S	418932.445	
721987.226	4294308.438	5882	11-Jun-15	BORE HOLE 1 061115.S	418923.613	
721983.278	4294321.467	5883	11-Jun-15	BORE HOLE 1 061115.S	419217.581	
721983.797	4294321.788	5885	11-Jun-15	BORE HOLE 1 061115.S	418997.61	
721987.288	4294308.181	5886	11-Jun-15	BORE HOLE 1 061115.S	418889.697	
721987.382	4294308.149	5889	11-Jun-15	BORE HOLE 1 061115.S	418837.631	
721987.425	4294309.459	5893	11-Jun-15	BORE HOLE 1 061115.S	418965.665	
721983.434	4294317.681	5893	11-Jun-15	BORE HOLE 1 061115.S	419322.597	
721983.44	4294317.59	5899	11-Jun-15	BORE HOLE 1 061115.S	419318.49	
721987.421	4294308.083	5901	11-Jun-15	BORE HOLE 1 061115.S	418848.748	
721981.38	4294326.987	5903	11-Jun-15	BORE HOLE 1 061115.S	419143.592	
721987.326	4294307.989	5919	11-Jun-15	BORE HOLE 1 061115.S	418914.689	
721984.415	4294317.371	5923	11-Jun-15	BORE HOLE 1 061115.S	419081.74	
721987.28	4294308.162	5925	11-Jun-15	BORE HOLE 1 061115.S	418896.556	
721987.287	4294308.137	5926	11-Jun-15	BORE HOLE 1 061115.S	418899.697	
721987.04	4294310.431	5934	11-Jun-15	BORE HOLE 1 061115.S	418967.554	
721987.276	4294308.263	5937	11-Jun-15	BORE HOLE 1 061115.S	418865.809	
721981.668	4294326.9	5939	11-Jun-15	BORE HOLE 1 061115.S	419358.349	
721987.314	4294308.198	5940	11-Jun-15	BORE HOLE 1 061115.S	418850.631	
721983.727	4294321.953	5946	11-Jun-15	BORE HOLE 1 061115.S	419013.694	
721982.488	4294328.96	5952	11-Jun-15	BORE HOLE 1 061115.S	419045.748	
721985.526	4294312.826	5958	11-Jun-15	BORE HOLE 1 061115.S	419100.594	
721987.284	4294308.176	5959	11-Jun-15	BORE HOLE 1 061115.S	418893.423	
721987.282	4294308.145	5962	11-Jun-15	BORE HOLE 1 061115.S	418898.594	
721983.878	4294316.443	5968	11-Jun-15	BORE HOLE 1 061115.S	419297.603	
721982.76	4294314.984	5973	11-Jun-15	BORE HOLE 1 061115.S	419267.543	
721985.228	4294314.364	5976	11-Jun-15	BORE HOLE 1 061115.S	418977.731	
721987.281	4294308.174	5984	11-Jun-15	BORE HOLE 1 061115.S	418894.562	
721987.39	4294308.052	5988	11-Jun-15	BORE HOLE 1 061115.S	418838.67	
721987.295	4294308.179	5988	11-Jun-15	BORE HOLE 1 061115.S	418886.419	
721984.15	4294320.151	5989	11-Jun-15	BORE HOLE 1 061115.S	418990.765	
721984.973	4294315.399	6002	11-Jun-15	BORE HOLE 1 061115.S	419085.761	
721983.7	4294321.998	6008	11-Jun-15	BORE HOLE 1 061115.S	419022.369	
721982.15	4294328.742	6014	11-Jun-15	BORE HOLE 1 061115.S	419130.753	
721983.126	4294326.837	6019	11-Jun-15	BORE HOLE 1 061115.S	419041.641	
721983.141	4294327.814	6035	11-Jun-15	BORE HOLE 1 061115.S	419054.459	

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721987.301	4294308.172	6039	11-Jun-15	BORE HOLE 1 061115.S	418876.611	
721983.454	4294317.714	6045	11-Jun-15	BORE HOLE 1 061115.S	419329.6	
721987.385	4294308.007	6046	11-Jun-15	BORE HOLE 1 061115.S	418839.806	
721987.28	4294308.169	6054	11-Jun-15	BORE HOLE 1 061115.S	418895.675	
721982.279	4294329.762	6055	11-Jun-15	BORE HOLE 1 061115.S	419047.559	
721987.256	4294308.263	6062	11-Jun-15	BORE HOLE 1 061115.S	418856.587	
721984.279	4294319.39	6075	11-Jun-15	BORE HOLE 1 061115.S	418988.465	
721984.273	4294318.884	6078	11-Jun-15	BORE HOLE 1 061115.S	419112.646	
721983.919	4294315.477	6079	11-Jun-15	BORE HOLE 1 061115.S	419205.558	
721985.109	4294314.773	6081	11-Jun-15	BORE HOLE 1 061115.S	418978.55	
721982.717	4294326.561	6082	11-Jun-15	BORE HOLE 1 061115.S	419126.334	
721987.429	4294308.708	6086	11-Jun-15	BORE HOLE 1 061115.S	418831.681	
721983.807	4294321.89	6089	11-Jun-15	BORE HOLE 1 061115.S	419117.473	
721984.411	4294318.412	6090	11-Jun-15	BORE HOLE 1 061115.S	419111.706	
721987.283	4294308.177	6096	11-Jun-15	BORE HOLE 1 061115.S	418874.561	
721982.517	4294319.669	6096	11-Jun-15	BORE HOLE 1 061115.S	419622.307	
721987.376	4294307.999	6108	11-Jun-15	BORE HOLE 1 061115.S	418840.463	
721983.863	4294315.968	6109	11-Jun-15	BORE HOLE 1 061115.S	419206.386	
721984.146	4294322.539	6110	11-Jun-15	BORE HOLE 1 061115.S	419073.49	
721983.728	4294321.946	6112	11-Jun-15	BORE HOLE 1 061115.S	419014.564	
721983.744	4294321.981	6115	11-Jun-15	BORE HOLE 1 061115.S	418998.467	
721987.366	4294307.998	6117	11-Jun-15	BORE HOLE 1 061115.S	418841.591	
721987.119	4294308.85	6119	11-Jun-15	BORE HOLE 1 061115.S	418928.453	
721982.896	4294319.829	6122	11-Jun-15	BORE HOLE 1 061115.S	419344.662	
721981.758	4294329.827	6126	11-Jun-15	BORE HOLE 1 061115.S	419133.36	
721987.073	4294309.06	6141	11-Jun-15	BORE HOLE 1 061115.S	418955.734	
721987.284	4294308.182	6143	11-Jun-15	BORE HOLE 1 061115.S	418888.592	
721985.007	4294308.41	6146	11-Jun-15	BORE HOLE 1 061115.S	419531.47	
721980.67	4294330.356	6153	11-Jun-15	BORE HOLE 1 061115.S	419238.588	
721984.002	4294315.919	6155	11-Jun-15	BORE HOLE 1 061115.S	419296.411	
721987.365	4294308.261	6159	11-Jun-15	BORE HOLE 1 061115.S	418836.629	
721982.625	4294329.103	6159	11-Jun-15	BORE HOLE 1 061115.S	419052.38	
721983.244	4294324.623	6159	11-Jun-15	BORE HOLE 1 061115.S	419122.486	
721983.697	4294322.028	6163	11-Jun-15	BORE HOLE 1 061115.S	419010.348	
721987.283	4294308.235	6173	11-Jun-15	BORE HOLE 1 061115.S	418868.451	
721987.28	4294308.244	6182	11-Jun-15	BORE HOLE 1 061115.S	418867.864	
721985.161	4294314.744	6196	11-Jun-15	BORE HOLE 1 061115.S	419086.637	
721987.08	4294309.053	6204	11-Jun-15	BORE HOLE 1 061115.S	418954.617	
721984.97	4294315.446	6205	11-Jun-15	BORE HOLE 1 061115.S	419105.538	
721984.738	4294316.135	6206	11-Jun-15	BORE HOLE 1 061115.S	419084.588	
721983.686	4294322.066	6215	11-Jun-15	BORE HOLE 1 061115.S	419008.59	
721982.508	4294319.676	6219	11-Jun-15	BORE HOLE 1 061115.S	419620.192	
721983.632	4294317.475	6223	11-Jun-15	BORE HOLE 1 061115.S	419301.598	
721987.238	4294309.909	6225	11-Jun-15	BORE HOLE 1 061115.S	418966.574	
721983.715	4294321.931	6225	11-Jun-15	BORE HOLE 1 061115.S	419024.589	
721987.355	4294307.983	6228	11-Jun-15	BORE HOLE 1 061115.S	418912.406	
721983.768	4294317.243	6229	11-Jun-15	BORE HOLE 1 061115.S	419299.504	

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721984.87	4294316.074	6231	11-Jun-15	BORE HOLE 1 061115.S	419106.735	
721982.477	4294327.42	6236	11-Jun-15	BORE HOLE 1 061115.S	419128.27	
721983.352	4294324.157	6265	11-Jun-15	BORE HOLE 1 061115.S	419121.626	
721982.344	4294319.701	6265	11-Jun-15	BORE HOLE 1 061115.S	419613.485	
721983.69	4294322.036	6275	11-Jun-15	BORE HOLE 1 061115.S	419021.529	
721985.975	4294312.678	6279	11-Jun-15	BORE HOLE 1 061115.S	419089.592	
721984.367	4294319.068	6280	11-Jun-15	BORE HOLE 1 061115.S	418987.547	
721982.399	4294319.766	6282	11-Jun-15	BORE HOLE 1 061115.S	419610.363	
721987.279	4294308.257	6287	11-Jun-15	BORE HOLE 1 061115.S	418866.449	
721983.055	4294326.847	6288	11-Jun-15	BORE HOLE 1 061115.S	419062.488	
721983.712	4294321.952	6303	11-Jun-15	BORE HOLE 1 061115.S	419023.475	
721987.349	4294308.359	6304	11-Jun-15	BORE HOLE 1 061115.S	418835.774	
721983.799	4294321.828	6323	11-Jun-15	BORE HOLE 1 061115.S	419028.732	
721983.711	4294322.003	6341	11-Jun-15	BORE HOLE 1 061115.S	419011.489	
721985.065	4294314.954	6342	11-Jun-15	BORE HOLE 1 061115.S	419104.724	
721984.024	4294320.549	6344	11-Jun-15	BORE HOLE 1 061115.S	418992.38	
721983.929	4294321.365	6344	11-Jun-15	BORE HOLE 1 061115.S	418994.707	
721983.672	4294322.046	6348	11-Jun-15	BORE HOLE 1 061115.S	419017.753	
721983.964	4294321.805	6350	11-Jun-15	BORE HOLE 1 061115.S	419030.469	
721982.991	4294325.646	6363	11-Jun-15	BORE HOLE 1 061115.S	419124.519	
721985.452	4294313.918	6386	11-Jun-15	BORE HOLE 1 061115.S	418976.593	
721984.223	4294321.956	6387	11-Jun-15	BORE HOLE 1 061115.S	419074.422	
721987.287	4294308.219	6403	11-Jun-15	BORE HOLE 1 061115.S	418869.669	
721984.488	4294317.141	6406	11-Jun-15	BORE HOLE 1 061115.S	419082.396	
721984.558	4294318.469	6412	11-Jun-15	BORE HOLE 1 061115.S	418985.743	
721984.346	4294318.055	6414	11-Jun-15	BORE HOLE 1 061115.S	419080.651	
721984.094	4294320.343	6416	11-Jun-15	BORE HOLE 1 061115.S	418991.549	
721983.421	4294323.641	6428	11-Jun-15	BORE HOLE 1 061115.S	419120.556	
721983.171	4294326.34	6436	11-Jun-15	BORE HOLE 1 061115.S	419040.621	
721983.362	4294324.991	6437	11-Jun-15	BORE HOLE 1 061115.S	419037.681	
721983.066	4294327.18	6442	11-Jun-15	BORE HOLE 1 061115.S	419042.344	
721985.354	4294313.398	6449	11-Jun-15	BORE HOLE 1 061115.S	419101.714	
721981.472	4294330.101	6451	11-Jun-15	BORE HOLE 1 061115.S	419134.437	
721985.208	4294307.784	6464	11-Jun-15	BORE HOLE 1 061115.S	419530.39	
721981.247	4294329.756	6472	11-Jun-15	BORE HOLE 1 061115.S	419135.589	
721984.749	4294317.318	6474	11-Jun-15	BORE HOLE 1 061115.S	418983.6	
721985.033	4294315.77	6476	11-Jun-15	BORE HOLE 1 061115.S	418980.554	
721983.668	4294322.068	6477	11-Jun-15	BORE HOLE 1 061115.S	419018.536	
721987.354	4294307.988	6478	11-Jun-15	BORE HOLE 1 061115.S	418910.558	
721983.272	4294326.639	6478	11-Jun-15	BORE HOLE 1 061115.S	419057.596	
721986.413	4294312.427	6496	11-Jun-15	BORE HOLE 1 061115.S	418972.475	
721983.178	4294326.387	6500	11-Jun-15	BORE HOLE 1 061115.S	419065.765	
721983.621	4294323.806	6517	11-Jun-15	BORE HOLE 1 061115.S	419035.489	
721983.989	4294320.88	6536	11-Jun-15	BORE HOLE 1 061115.S	418993.469	
721987.355	4294307.984	6569	11-Jun-15	BORE HOLE 1 061115.S	418911.699	
721983.227	4294326.597	6577	11-Jun-15	BORE HOLE 1 061115.S	419059.422	
721984.312	4294319.052	6585	11-Jun-15	BORE HOLE 1 061115.S	419079.551	

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721983.447	4294325.557	6586	11-Jun-15	BORE HOLE 1 061115.S	419067.72	
721986.229	4294311.172	6610	11-Jun-15	BORE HOLE 1 061115.S	419091.573	
721983.908	4294321.628	6621	11-Jun-15	BORE HOLE 1 061115.S	418996.497	
721987.298	4294308.125	6641	11-Jun-15	BORE HOLE 1 061115.S	418901.468	
721982.443	4294319.686	6643	11-Jun-15	BORE HOLE 1 061115.S	419616.353	
721983.539	4294324.225	6694	11-Jun-15	BORE HOLE 1 061115.S	419070.537	
721985.408	4294314.103	6709	11-Jun-15	BORE HOLE 1 061115.S	419087.596	
721983.681	4294322.069	6742	11-Jun-15	BORE HOLE 1 061115.S	419020.559	
721981.99	4294329.444	6743	11-Jun-15	BORE HOLE 1 061115.S	419132.474	
721982.477	4294319.683	6745	11-Jun-15	BORE HOLE 1 061115.S	419618.338	
721983.732	4294323.133	6751	11-Jun-15	BORE HOLE 1 061115.S	419034.343	
721982.419	4294319.692	6774	11-Jun-15	BORE HOLE 1 061115.S	419615.338	
721983.039	4294326.834	6775	11-Jun-15	BORE HOLE 1 061115.S	419064.591	
721984.655	4294316.89	6779	11-Jun-15	BORE HOLE 1 061115.S	419108.37	
721983.509	4294324.426	6789	11-Jun-15	BORE HOLE 1 061115.S	419036.555	
721983.708	4294322.048	6800	11-Jun-15	BORE HOLE 1 061115.S	419004.672	
721983.704	4294322.108	6802	11-Jun-15	BORE HOLE 1 061115.S	419003.498	
721983.493	4294325.291	6806	11-Jun-15	BORE HOLE 1 061115.S	419068.344	
721983.699	4294322.22	6809	11-Jun-15	BORE HOLE 1 061115.S	419000.449	
721983.681	4294322.26	6832	11-Jun-15	BORE HOLE 1 061115.S	419001.639	
721984.305	4294320.297	6840	11-Jun-15	BORE HOLE 1 061115.S	419077.6	
721983.8	4294322.791	6847	11-Jun-15	BORE HOLE 1 061115.S	419033.675	
721986.654	4294311.764	6855	11-Jun-15	BORE HOLE 1 061115.S	418970.752	
721984.608	4294317.211	6855	11-Jun-15	BORE HOLE 1 061115.S	419109.409	
721987.381	4294308.525	6856	11-Jun-15	BORE HOLE 1 061115.S	418834.562	
721982.111	4294330.2	6861	11-Jun-15	BORE HOLE 1 061115.S	419048.48	
721982.513	4294319.669	6864	11-Jun-15	BORE HOLE 1 061115.S	419621.422	
721983.712	4294321.967	6898	11-Jun-15	BORE HOLE 1 061115.S	419015.459	
721986.55	4294312.095	6903	11-Jun-15	BORE HOLE 1 061115.S	418971.604	
721987.45	4294308.703	6905	11-Jun-15	BORE HOLE 1 061115.S	418833.442	
721984.613	4294316.78	6911	11-Jun-15	BORE HOLE 1 061115.S	419083.445	
721984.559	4294317.691	6963	11-Jun-15	BORE HOLE 1 061115.S	419110.461	
721987.477	4294308.781	6981	11-Jun-15	BORE HOLE 1 061115.S	418832.576	
721983.155	4294326.706	7014	11-Jun-15	BORE HOLE 1 061115.S	419060.64	
721982.896	4294327.8	7040	11-Jun-15	BORE HOLE 1 061115.S	419043.489	
721982.838	4294326.156	7050	11-Jun-15	BORE HOLE 1 061115.S	419125.556	
721981.825	4294330.404	7055	11-Jun-15	BORE HOLE 1 061115.S	419049.43	
721982.389	4294319.691	7056	11-Jun-15	BORE HOLE 1 061115.S	419614.482	
721982.461	4294319.682	7061	11-Jun-15	BORE HOLE 1 061115.S	419617.438	
721984.304	4294320.906	7081	11-Jun-15	BORE HOLE 1 061115.S	419076.456	
721987.063	4294309.073	7085	11-Jun-15	BORE HOLE 1 061115.S	418956.592	
721984.259	4294321.334	7087	11-Jun-15	BORE HOLE 1 061115.S	419075.6	
721982.674	4294328.375	7130	11-Jun-15	BORE HOLE 1 061115.S	419044.595	
721983.268	4294326.832	7154	11-Jun-15	BORE HOLE 1 061115.S	419056.668	
721983.903	4294321.595	7166	11-Jun-15	BORE HOLE 1 061115.S	418995.72	
721986.183	4294312.88	7174	11-Jun-15	BORE HOLE 1 061115.S	418973.574	
721983.738	4294321.878	7175	11-Jun-15	BORE HOLE 1 061115.S	419027.593	

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721982.316	4294319.707	7180	11-Jun-15	BORE HOLE 1 061115.S	419612.431	
721984.145	4294319.39	7189	11-Jun-15	BORE HOLE 1 061115.S	419113.668	
721984.751	4294316.521	7197	11-Jun-15	BORE HOLE 1 061115.S	419107.556	
721982.309	4294328.096	7259	11-Jun-15	BORE HOLE 1 061115.S	419129.409	
721983.099	4294326.79	7273	11-Jun-15	BORE HOLE 1 061115.S	419061.597	
721983.916	4294321.805	7281	11-Jun-15	BORE HOLE 1 061115.S	419029.591	
721983.013	4294326.916	7302	11-Jun-15	BORE HOLE 1 061115.S	419063.466	
721983.704	4294322.165	7319	11-Jun-15	BORE HOLE 1 061115.S	418999.843	
721986.894	4294310.747	7325	11-Jun-15	BORE HOLE 1 061115.S	418968.493	
721983.297	4294325.36	7339	11-Jun-15	BORE HOLE 1 061115.S	419038.501	
721984.956	4294316.363	7349	11-Jun-15	BORE HOLE 1 061115.S	418981.72	
721982.497	4294319.682	7356	11-Jun-15	BORE HOLE 1 061115.S	419619.247	
721984.344	4294319.872	7380	11-Jun-15	BORE HOLE 1 061115.S	419078.428	
721983.312	4294326.024	7385	11-Jun-15	BORE HOLE 1 061115.S	419066.59	
721983.717	4294321.988	7400	11-Jun-15	BORE HOLE 1 061115.S	419006.309	
721983.683	4294322.203	7408	11-Jun-15	BORE HOLE 1 061115.S	419002.447	
721983.264	4294327.175	7498	11-Jun-15	BORE HOLE 1 061115.S	419055.601	
721983.723	4294321.978	7585	11-Jun-15	BORE HOLE 1 061115.S	419012.539	
721983.264	4294326.571	7589	11-Jun-15	BORE HOLE 1 061115.S	419058.582	
721986.133	4294311.982	7600	11-Jun-15	BORE HOLE 1 061115.S	419090.472	
721983.912	4294322.308	7618	11-Jun-15	BORE HOLE 1 061115.S	419032.593	
721984.682	4294317.929	7648	11-Jun-15	BORE HOLE 1 061115.S	418984.619	
721985.69	4294313.604	7663	11-Jun-15	BORE HOLE 1 061115.S	418975.597	
721983.242	4294325.879	7744	11-Jun-15	BORE HOLE 1 061115.S	419039.612	
721984.207	4294319.821	7758	11-Jun-15	BORE HOLE 1 061115.S	418989.68	
721982.118	4294329.043	7775	11-Jun-15	BORE HOLE 1 061115.S	419131.518	
721985.28	4294313.772	7852	11-Jun-15	BORE HOLE 1 061115.S	419102.456	
721983.684	4294322.019	7874	11-Jun-15	BORE HOLE 1 061115.S	419016.594	
721983.706	4294322.017	7940	11-Jun-15	BORE HOLE 1 061115.S	419007.43	
721983.715	4294322.006	8000	11-Jun-15	BORE HOLE 1 061115.S	419005.62	
721986.743	4294311.193	8101	11-Jun-15	BORE HOLE 1 061115.S	418969.551	
721984.867	4294316.733	8137	11-Jun-15	BORE HOLE 1 061115.S	418982.472	
721982.367	4294319.728	8200	11-Jun-15	BORE HOLE 1 061115.S	419611.446	
721985.974	4294313.242	8333	11-Jun-15	BORE HOLE 1 061115.S	418974.456	
721983.689	4294322.047	8333	11-Jun-15	BORE HOLE 1 061115.S	419009.717	
721983.966	4294321.926	8397	11-Jun-15	BORE HOLE 1 061115.S	419031.548	
721983.728	4294321.901	8421	11-Jun-15	BORE HOLE 1 061115.S	419026.374	
721984.477	4294318.752	8443	11-Jun-15	BORE HOLE 1 061115.S	418986.6	
721983.673	4294322.084	8489	11-Jun-15	BORE HOLE 1 061115.S	419019.768	
721983.721	4294321.908	8846	11-Jun-15	BORE HOLE 1 061115.S	419025.736	
722143.921	4294185.188	5146	05-Jun-15	BORE HOLE 13.SSF	493039.088	
722143.909	4294185.197	5151	05-Jun-15	BORE HOLE 13.SSF	493040.96	
722143.888	4294185.177	5177	05-Jun-15	BORE HOLE 13.SSF	493041.909	
722143.9	4294185.214	5255	05-Jun-15	BORE HOLE 13.SSF	493037.828	
722143.91	4294185.204	5265	05-Jun-15	BORE HOLE 13.SSF	493040.203	
722144.159	4294184.837	5324	05-Jun-15	BORE HOLE 13.SSF	493035.015	
722143.942	4294185.307	5370	05-Jun-15	BORE HOLE 13.SSF	493036.946	

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722144.376	4294184.044	5464	05-Jun-15	BORE HOLE 13.SSF	493028.17	
722144.815	4294184.137	5503	05-Jun-15	BORE HOLE 13.SSF	493022.09	
722144.476	4294183.985	5552	05-Jun-15	BORE HOLE 13.SSF	493023.965	
722144	4294185.135	5627	05-Jun-15	BORE HOLE 13.SSF	493036.178	
722144.379	4294183.983	5635	05-Jun-15	BORE HOLE 13.SSF	493027.083	
722144.409	4294183.948	5671	05-Jun-15	BORE HOLE 13.SSF	493025.822	
722144.603	4294184.076	5698	05-Jun-15	BORE HOLE 13.SSF	493022.847	
722145.05	4294184.52	5705	05-Jun-15	BORE HOLE 13.SSF	493019.036	
722144.363	4294184.071	5736	05-Jun-15	BORE HOLE 13.SSF	493028.926	
722144.985	4294184.379	5743	05-Jun-15	BORE HOLE 13.SSF	493020.873	
722144.437	4294183.93	5868	05-Jun-15	BORE HOLE 13.SSF	493024.917	
722144.27	4294184.508	5889	05-Jun-15	BORE HOLE 13.SSF	493032.946	
722145.009	4294184.454	5916	05-Jun-15	BORE HOLE 13.SSF	493019.866	
722144.334	4294184.349	6056	05-Jun-15	BORE HOLE 13.SSF	493032.189	
722143.868	4294185.165	6092	05-Jun-15	BORE HOLE 13.SSF	493042.744	
722144.254	4294184.766	6117	05-Jun-15	BORE HOLE 13.SSF	493034.188	
722144.401	4294184.122	6466	05-Jun-15	BORE HOLE 13.SSF	493030.854	
722144.398	4294184.109	6666	05-Jun-15	BORE HOLE 13.SSF	493030.095	
722170.049	4294214.301	3995	08-Jun-15	BORE HOLE 14.SSF	131517.553	
722170.048	4294214.326	3824	08-Jun-15	BORE HOLE 14.SSF	131520.556	
722170.045	4294214.331	3789	08-Jun-15	BORE HOLE 14.SSF	131521.629	
722170.039	4294214.335	3931	08-Jun-15	BORE HOLE 14.SSF	131522.772	
722170.038	4294214.346	4040	08-Jun-15	BORE HOLE 14.SSF	131524.459	
722170.039	4294214.352	3470	08-Jun-15	BORE HOLE 14.SSF	131525.647	
722170.038	4294214.357	3386	08-Jun-15	BORE HOLE 14.SSF	131526.741	
722170.04	4294214.362	3671	08-Jun-15	BORE HOLE 14.SSF	131527.669	
722170.039	4294214.365	3653	08-Jun-15	BORE HOLE 14.SSF	131528.699	
722170.039	4294214.365	3737	08-Jun-15	BORE HOLE 14.SSF	131529.525	
722170.043	4294214.371	3718	08-Jun-15	BORE HOLE 14.SSF	131530.552	
722170.043	4294214.375	3802	08-Jun-15	BORE HOLE 14.SSF	131531.459	
722170.039	4294214.374	3883	08-Jun-15	BORE HOLE 14.SSF	131532.562	
722170.036	4294214.372	3833	08-Jun-15	BORE HOLE 14.SSF	131533.5	
722170.034	4294214.377	3836	08-Jun-15	BORE HOLE 14.SSF	131534.595	
722170.035	4294214.381	3960	08-Jun-15	BORE HOLE 14.SSF	131536.561	
722170.03	4294214.379	3866	08-Jun-15	BORE HOLE 14.SSF	131537.656	
722170.033	4294214.386	4046	08-Jun-15	BORE HOLE 14.SSF	131540.467	
722170.039	4294214.341	4063	08-Jun-15	BORE HOLE 14.SSF	131523.589	
722182.674	4294229.075	4066	08-Jun-15	BORE HOLE 14.SSF	132257.21	
722170.048	4294214.319	4079	08-Jun-15	BORE HOLE 14.SSF	131519.478	
722170.035	4294214.381	4080	08-Jun-15	BORE HOLE 14.SSF	131535.497	
722176.305	4294220.281	4080	08-Jun-15	BORE HOLE 14.SSF	132142.307	
722170.032	4294214.383	4096	08-Jun-15	BORE HOLE 14.SSF	131538.557	
722184.926	4294233.233	4105	08-Jun-15	BORE HOLE 14.SSF	132077.218	
722170.033	4294214.222	4117	08-Jun-15	BORE HOLE 14.SSF	131507.733	
722170.018	4294214.194	4119	08-Jun-15	BORE HOLE 14.SSF	131506.034	
722170.051	4294214.3	4136	08-Jun-15	BORE HOLE 14.SSF	131516.391	
722183.142	4294229.611	4138	08-Jun-15	BORE HOLE 14.SSF	132256.163	

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722176.752	4294221.009	4146	08-Jun-15	BORE HOLE 14.SSF	132141.169	
722179.287	4294224.258	4165	08-Jun-15	BORE HOLE 14.SSF	132134.432	
722170.035	4294214.387	4179	08-Jun-15	BORE HOLE 14.SSF	131539.638	
722170.049	4294214.293	4185	08-Jun-15	BORE HOLE 14.SSF	131514.617	
722178.058	4294225.849	4191	08-Jun-15	BORE HOLE 14.SSF	131976.479	
722177.335	4294224.973	4196	08-Jun-15	BORE HOLE 14.SSF	131974.466	
722173.69	4294216.533	4209	08-Jun-15	BORE HOLE 14.SSF	132042.351	
722173.56	4294217.259	4214	08-Jun-15	BORE HOLE 14.SSF	131958.555	
722173.602	4294217.292	4215	08-Jun-15	BORE HOLE 14.SSF	131959.222	
722179.036	4294223.848	4218	08-Jun-15	BORE HOLE 14.SSF	132135.177	
722176.914	4294222.652	4225	08-Jun-15	BORE HOLE 14.SSF	132152.484	
722177.081	4294222.142	4229	08-Jun-15	BORE HOLE 14.SSF	132368.482	
722170.05	4294214.255	4231	08-Jun-15	BORE HOLE 14.SSF	131509.477	
722175.181	4294220.548	4254	08-Jun-15	BORE HOLE 14.SSF	131966.465	
722170.059	4294214.276	4255	08-Jun-15	BORE HOLE 14.SSF	131510.596	
722178.715	4294223.404	4258	08-Jun-15	BORE HOLE 14.SSF	132332.246	
722170.03	4294214.386	4263	08-Jun-15	BORE HOLE 14.SSF	131541.564	
722174.723	4294217.204	4267	08-Jun-15	BORE HOLE 14.SSF	132040.459	
722180.618	4294225.689	4269	08-Jun-15	BORE HOLE 14.SSF	132202.389	
722170.046	4294214.307	4271	08-Jun-15	BORE HOLE 14.SSF	131518.592	
722177.102	4294222.14	4284	08-Jun-15	BORE HOLE 14.SSF	132369.31	
722172.189	4294218.071	4291	08-Jun-15	BORE HOLE 14.SSF	131597.492	
722170.063	4294214.291	4297	08-Jun-15	BORE HOLE 14.SSF	131512.592	
722176.868	4294224.4	4300	08-Jun-15	BORE HOLE 14.SSF	131973.345	
722179.977	4294225.223	4301	08-Jun-15	BORE HOLE 14.SSF	132132.619	
722170.064	4294214.287	4305	08-Jun-15	BORE HOLE 14.SSF	131511.442	
722177.594	4294223.551	4309	08-Jun-15	BORE HOLE 14.SSF	132154.306	
722175.412	4294221.033	4313	08-Jun-15	BORE HOLE 14.SSF	131967.342	
722184.065	4294232.102	4314	08-Jun-15	BORE HOLE 14.SSF	132074.371	
722179.704	4294224.834	4324	08-Jun-15	BORE HOLE 14.SSF	132133.388	
722178.131	4294224.703	4332	08-Jun-15	BORE HOLE 14.SSF	132058.466	
722180.357	4294225.731	4340	08-Jun-15	BORE HOLE 14.SSF	132131.457	
722176.381	4294221.839	4354	08-Jun-15	BORE HOLE 14.SSF	132053.1	
722178.963	4294225.63	4355	08-Jun-15	BORE HOLE 14.SSF	132060.442	
722178.727	4294223.288	4360	08-Jun-15	BORE HOLE 14.SSF	132136.404	
722179.248	4294225.962	4362	08-Jun-15	BORE HOLE 14.SSF	132061.111	
722176.278	4294220.696	4367	08-Jun-15	BORE HOLE 14.SSF	132211.471	
722179.079	4294227.235	4371	08-Jun-15	BORE HOLE 14.SSF	131979.378	
722175.831	4294222.181	4382	08-Jun-15	BORE HOLE 14.SSF	131969.341	
722183.384	4294230.018	4383	08-Jun-15	BORE HOLE 14.SSF	132255.377	
722177.651	4294225.318	4385	08-Jun-15	BORE HOLE 14.SSF	131975.245	
722175.851	4294220.328	4391	08-Jun-15	BORE HOLE 14.SSF	132212.343	
722170.048	4294214.295	4394	08-Jun-15	BORE HOLE 14.SSF	131515.38	
722177.216	4294222.953	4394	08-Jun-15	BORE HOLE 14.SSF	132153.161	
722175.312	4294219.85	4397	08-Jun-15	BORE HOLE 14.SSF	132213.473	
722173.502	4294217.209	4398	08-Jun-15	BORE HOLE 14.SSF	131957.453	
722183.086	4294228.18	4401	08-Jun-15	BORE HOLE 14.SSF	132197.142	

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722174.223	4294216.714	4403	08-Jun-15	BORE HOLE 14.SSF	132041.374	
722178.25	4294224.488	4405	08-Jun-15	BORE HOLE 14.SSF	132224.33	
722183.353	4294228.561	4410	08-Jun-15	BORE HOLE 14.SSF	132196.3	
722183.031	4294227.114	4412	08-Jun-15	BORE HOLE 14.SSF	132020.344	
722180.821	4294225.423	4417	08-Jun-15	BORE HOLE 14.SSF	132316.464	
722172.801	4294219.537	4424	08-Jun-15	BORE HOLE 14.SSF	131789.615	
722173.516	4294222.161	4425	08-Jun-15	BORE HOLE 14.SSF	131605.463	
722179.923	4294222.828	4428	08-Jun-15	BORE HOLE 14.SSF	132334.203	
722173.007	4294216.816	4445	08-Jun-15	BORE HOLE 14.SSF	132043.5	
722173.585	4294217.368	4448	08-Jun-15	BORE HOLE 14.SSF	131960.344	
722184.352	4294229.943	4451	08-Jun-15	BORE HOLE 14.SSF	132193.502	
722179.476	4294222.437	4454	08-Jun-15	BORE HOLE 14.SSF	132348.214	
722175.951	4294219.743	4455	08-Jun-15	BORE HOLE 14.SSF	132143.161	
722185.423	4294235.49	4457	08-Jun-15	BORE HOLE 14.SSF	131847.38	
722176.948	4294223.023	4457	08-Jun-15	BORE HOLE 14.SSF	132055.375	
722170.043	4294214.239	4468	08-Jun-15	BORE HOLE 14.SSF	131508.402	
722173.505	4294217.139	4468	08-Jun-15	BORE HOLE 14.SSF	131950.34	
722180.975	4294228.556	4473	08-Jun-15	BORE HOLE 14.SSF	132066.384	
722176.24	4294221.884	4477	08-Jun-15	BORE HOLE 14.SSF	132219.31	
722170.059	4294214.293	4479	08-Jun-15	BORE HOLE 14.SSF	131513.467	
722179.759	4294225.583	4497	08-Jun-15	BORE HOLE 14.SSF	132263.224	
722180.093	4294225.138	4501	08-Jun-15	BORE HOLE 14.SSF	132203.292	
722178.021	4294223.972	4501	08-Jun-15	BORE HOLE 14.SSF	132155.346	
722170.041	4294214.392	4528	08-Jun-15	BORE HOLE 14.SSF	131542.735	
722185.741	4294233.612	4530	08-Jun-15	BORE HOLE 14.SSF	132240.385	
722183.829	4294229.074	4534	08-Jun-15	BORE HOLE 14.SSF	132195.125	
722185.143	4294231.288	4537	08-Jun-15	BORE HOLE 14.SSF	132191.231	
722184.766	4294230.639	4539	08-Jun-15	BORE HOLE 14.SSF	132192.339	
722178.182	4294223.114	4541	08-Jun-15	BORE HOLE 14.SSF	132345.089	
722173.504	4294217.093	4542	08-Jun-15	BORE HOLE 14.SSF	131945.302	
722175.54	4294222.614	4542	08-Jun-15	BORE HOLE 14.SSF	132274.424	
722175.757	4294221.509	4546	08-Jun-15	BORE HOLE 14.SSF	132218.457	
722175.12	4294225.274	4553	08-Jun-15	BORE HOLE 14.SSF	131620.423	
722180.498	4294227.276	4554	08-Jun-15	BORE HOLE 14.SSF	132229.207	
722173.933	4294218.969	4556	08-Jun-15	BORE HOLE 14.SSF	132047.325	
722175.991	4294221.561	4560	08-Jun-15	BORE HOLE 14.SSF	132150.281	
722174.124	4294218.585	4561	08-Jun-15	BORE HOLE 14.SSF	131963.217	
722179.562	4294224.519	4564	08-Jun-15	BORE HOLE 14.SSF	132204.403	
722180.211	4294227.543	4564	08-Jun-15	BORE HOLE 14.SSF	132064.327	
722177.145	4294222.582	4570	08-Jun-15	BORE HOLE 14.SSF	132268.478	
722173.157	4294217.783	4570	08-Jun-15	BORE HOLE 14.SSF	132045.297	
722177.066	4294221.372	4571	08-Jun-15	BORE HOLE 14.SSF	132140.432	
722174.475	4294219.233	4574	08-Jun-15	BORE HOLE 14.SSF	132146.457	
722175.292	4294218.943	4575	08-Jun-15	BORE HOLE 14.SSF	132144.555	
722180.137	4294226.821	4576	08-Jun-15	BORE HOLE 14.SSF	132228.405	
722182.081	4294229.116	4581	08-Jun-15	BORE HOLE 14.SSF	132232.377	
722176.124	4294221.516	4581	08-Jun-15	BORE HOLE 14.SSF	132052.433	

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722179.644	4294226.21	4589	08-Jun-15	BORE HOLE 14.SSF	132227.404	
722186.588	4294234.729	4589	08-Jun-15	BORE HOLE 14.SSF	132242.436	
722183.497	4294227.731	4590	08-Jun-15	BORE HOLE 14.SSF	132019.228	
722176.563	4294225.566	4592	08-Jun-15	BORE HOLE 14.SSF	131802.507	
722180.518	4294228.116	4592	08-Jun-15	BORE HOLE 14.SSF	132065.442	
722175.462	4294225.305	4593	08-Jun-15	BORE HOLE 14.SSF	131632.714	
722181.177	4294229.427	4595	08-Jun-15	BORE HOLE 14.SSF	131984.352	
722176.773	4294222.445	4596	08-Jun-15	BORE HOLE 14.SSF	132220.341	
722172.555	4294218.907	4599	08-Jun-15	BORE HOLE 14.SSF	131788.509	
722174.397	4294219.746	4600	08-Jun-15	BORE HOLE 14.SSF	132215.353	
722174.695	4294223.343	4603	08-Jun-15	BORE HOLE 14.SSF	131796.599	
722177.531	4294226.361	4610	08-Jun-15	BORE HOLE 14.SSF	131805.603	
722178.758	4294221.112	4613	08-Jun-15	BORE HOLE 14.SSF	132032.357	
722173.369	4294221.665	4614	08-Jun-15	BORE HOLE 14.SSF	131604.478	
722176.816	4294222.157	4618	08-Jun-15	BORE HOLE 14.SSF	132269.211	
722174.609	4294220.449	4620	08-Jun-15	BORE HOLE 14.SSF	132216.288	
722175.809	4294225.509	4622	08-Jun-15	BORE HOLE 14.SSF	131634.366	
722180.996	4294227.887	4624	08-Jun-15	BORE HOLE 14.SSF	132230.345	
722175.356	4294217.853	4627	08-Jun-15	BORE HOLE 14.SSF	132039.256	
722184.525	4294231.489	4627	08-Jun-15	BORE HOLE 14.SSF	132118.478	
722183.39	4294228.402	4627	08-Jun-15	BORE HOLE 14.SSF	132311.433	
722177.613	4294226.35	4629	08-Jun-15	BORE HOLE 14.SSF	131813.465	
722179.307	4294225.487	4630	08-Jun-15	BORE HOLE 14.SSF	132158.31	
722175.582	4294225.354	4631	08-Jun-15	BORE HOLE 14.SSF	131633.61	
722177.586	4294226.404	4632	08-Jun-15	BORE HOLE 14.SSF	131808.593	
722175.1	4294221.797	4634	08-Jun-15	BORE HOLE 14.SSF	132273.202	
722185.437	4294233.743	4634	08-Jun-15	BORE HOLE 14.SSF	132078.345	
722175.199	4294225.075	4641	08-Jun-15	BORE HOLE 14.SSF	131618.58	
722182.411	4294229.684	4644	08-Jun-15	BORE HOLE 14.SSF	132166.598	
722176.576	4294223.933	4644	08-Jun-15	BORE HOLE 14.SSF	131972.463	
722178.376	4294226.294	4645	08-Jun-15	BORE HOLE 14.SSF	131977.414	
722181.552	4294227.738	4647	08-Jun-15	BORE HOLE 14.SSF	132259.437	
722180.786	4294229.077	4650	08-Jun-15	BORE HOLE 14.SSF	131983.502	
722175.649	4294221.178	4654	08-Jun-15	BORE HOLE 14.SSF	132149.486	
722178.957	4294223.097	4654	08-Jun-15	BORE HOLE 14.SSF	132346.479	
722176.035	4294222.786	4655	08-Jun-15	BORE HOLE 14.SSF	131970.461	
722176.792	4294221.296	4656	08-Jun-15	BORE HOLE 14.SSF	132210.352	
722182.662	4294227.739	4658	08-Jun-15	BORE HOLE 14.SSF	132198.251	
722179.296	4294222.849	4665	08-Jun-15	BORE HOLE 14.SSF	132347.308	
722182.111	4294230.581	4666	08-Jun-15	BORE HOLE 14.SSF	131986.497	
722180.752	4294223.939	4667	08-Jun-15	BORE HOLE 14.SSF	132026.444	
722175.07	4294220.888	4668	08-Jun-15	BORE HOLE 14.SSF	132217.094	
722181.617	4294229.971	4670	08-Jun-15	BORE HOLE 14.SSF	131985.401	
722174.672	4294219.517	4671	08-Jun-15	BORE HOLE 14.SSF	132214.552	
722173.506	4294217.116	4676	08-Jun-15	BORE HOLE 14.SSF	131947.469	
722181.534	4294228.504	4678	08-Jun-15	BORE HOLE 14.SSF	132231.407	
722182.59	4294228.929	4680	08-Jun-15	BORE HOLE 14.SSF	132125.357	

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722180.536	4294224.996	4682	08-Jun-15	BORE HOLE 14.SSF	132317.251	
722175.703	4294221.662	4683	08-Jun-15	BORE HOLE 14.SSF	131968.507	
722182.649	4294229.688	4684	08-Jun-15	BORE HOLE 14.SSF	132233.445	
722173.587	4294218.499	4686	08-Jun-15	BORE HOLE 14.SSF	132046.481	
722178.007	4294222.334	4687	08-Jun-15	BORE HOLE 14.SSF	132138.372	
722188.779	4294231.213	4688	08-Jun-15	BORE HOLE 14.SSF	131706.592	
722177.62	4294226.344	4688	08-Jun-15	BORE HOLE 14.SSF	131814.588	
722179.582	4294226.598	4689	08-Jun-15	BORE HOLE 14.SSF	132062.356	
722175.976	4294222.972	4692	08-Jun-15	BORE HOLE 14.SSF	132275.189	
722173.697	4294221.642	4693	08-Jun-15	BORE HOLE 14.SSF	131793.318	
722175.516	4294224.439	4693	08-Jun-15	BORE HOLE 14.SSF	131799.392	
722181.703	4294228.401	4701	08-Jun-15	BORE HOLE 14.SSF	132164.464	
722184.088	4294229.465	4701	08-Jun-15	BORE HOLE 14.SSF	132194.321	
722180.294	4294223.359	4710	08-Jun-15	BORE HOLE 14.SSF	132027.366	
722179.921	4294226.984	4715	08-Jun-15	BORE HOLE 14.SSF	132063.355	
722170.205	4294213.866	4717	08-Jun-15	BORE HOLE 14.SSF	131578.716	
722178.599	4294224.98	4720	08-Jun-15	BORE HOLE 14.SSF	132225.213	
722176.422	4294225.965	4722	08-Jun-15	BORE HOLE 14.SSF	131635.563	
722173.651	4294217.722	4722	08-Jun-15	BORE HOLE 14.SSF	131961.438	
722183.003	4294231.334	4722	08-Jun-15	BORE HOLE 14.SSF	131988.306	
722183.555	4294231.458	4722	08-Jun-15	BORE HOLE 14.SSF	132291.184	
722173.25	4294221.185	4723	08-Jun-15	BORE HOLE 14.SSF	131603.36	
722174.824	4294219.851	4724	08-Jun-15	BORE HOLE 14.SSF	131965.346	
722173.503	4294217.185	4725	08-Jun-15	BORE HOLE 14.SSF	131956.343	
722182.725	4294230.148	4727	08-Jun-15	BORE HOLE 14.SSF	132167.396	
722176.314	4294221.557	4728	08-Jun-15	BORE HOLE 14.SSF	132270.277	
722181.149	4294227.264	4729	08-Jun-15	BORE HOLE 14.SSF	132260.264	
722179.125	4294223.983	4735	08-Jun-15	BORE HOLE 14.SSF	132205.473	
722188.594	4294230.827	4737	08-Jun-15	BORE HOLE 14.SSF	131707.493	
722183.786	4294230.541	4740	08-Jun-15	BORE HOLE 14.SSF	132254.29	
722180.95	4294227.344	4747	08-Jun-15	BORE HOLE 14.SSF	132162.31	
722175.148	4294225.157	4748	08-Jun-15	BORE HOLE 14.SSF	131619.509	
722173.504	4294217.149	4748	08-Jun-15	BORE HOLE 14.SSF	131951.48	
722177.116	4294222.136	4749	08-Jun-15	BORE HOLE 14.SSF	132370.308	
722185.045	4294235.252	4750	08-Jun-15	BORE HOLE 14.SSF	131846.699	
722185.932	4294234.325	4751	08-Jun-15	BORE HOLE 14.SSF	132079.492	
722176.91	4294226.647	4752	08-Jun-15	BORE HOLE 14.SSF	131637.349	
722175.12	4294225.321	4754	08-Jun-15	BORE HOLE 14.SSF	131622.606	
722178.255	4294223.832	4755	08-Jun-15	BORE HOLE 14.SSF	132266.289	
722182.147	4294230.05	4756	08-Jun-15	BORE HOLE 14.SSF	132288.299	
722175.129	4294225.356	4758	08-Jun-15	BORE HOLE 14.SSF	131621.496	
722178.75	4294226.835	4758	08-Jun-15	BORE HOLE 14.SSF	131978.489	
722173.753	4294222.732	4762	08-Jun-15	BORE HOLE 14.SSF	131606.509	
722176.3	4294223.405	4763	08-Jun-15	BORE HOLE 14.SSF	131971.533	
722177.81	4294218.477	4764	08-Jun-15	BORE HOLE 14.SSF	131905.392	
722172.911	4294217.292	4765	08-Jun-15	BORE HOLE 14.SSF	132044.562	
722175.335	4294225.257	4766	08-Jun-15	BORE HOLE 14.SSF	131631.56	

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722183.276	4294229.84	4766	08-Jun-15	BORE HOLE 14.SSF	132123.31	
722178.322	4294220.72	4777	08-Jun-15	BORE HOLE 14.SSF	132033.401	
722176.494	4294222.18	4777	08-Jun-15	BORE HOLE 14.SSF	132151.473	
722173.446	4294217.129	4785	08-Jun-15	BORE HOLE 14.SSF	131934.486	
722183.855	4294231.749	4790	08-Jun-15	BORE HOLE 14.SSF	132073.47	
722188.025	4294229.773	4793	08-Jun-15	BORE HOLE 14.SSF	131713.593	
722178.64	4294223.409	4793	08-Jun-15	BORE HOLE 14.SSF	132206.563	
722179.603	4294223.831	4793	08-Jun-15	BORE HOLE 14.SSF	132319.231	
722186.173	4294234.204	4798	08-Jun-15	BORE HOLE 14.SSF	132241.416	
722178.37	4294222.838	4800	08-Jun-15	BORE HOLE 14.SSF	132137.356	
722177.671	4294223.231	4804	08-Jun-15	BORE HOLE 14.SSF	132267.391	
722176.686	4294222.469	4804	08-Jun-15	BORE HOLE 14.SSF	132054.394	
722180.669	4294226.659	4805	08-Jun-15	BORE HOLE 14.SSF	132261.393	
722176.817	4294226.392	4809	08-Jun-15	BORE HOLE 14.SSF	131636.608	
722176.512	4294223.567	4814	08-Jun-15	BORE HOLE 14.SSF	132276.342	
722182.245	4294228.214	4815	08-Jun-15	BORE HOLE 14.SSF	132126.449	
722182.939	4294228	4815	08-Jun-15	BORE HOLE 14.SSF	132312.308	
722184.052	4294232.053	4816	08-Jun-15	BORE HOLE 14.SSF	132292.308	
722184.634	4294232.843	4817	08-Jun-15	BORE HOLE 14.SSF	132076.385	
722187.083	4294233.218	4817	08-Jun-15	BORE HOLE 14.SSF	132300.472	
722184.052	4294231.213	4819	08-Jun-15	BORE HOLE 14.SSF	132236.372	
722177.829	4294222.916	4819	08-Jun-15	BORE HOLE 14.SSF	132344.215	
722173.477	4294217.149	4820	08-Jun-15	BORE HOLE 14.SSF	131938.478	
722173.504	4294217.107	4820	08-Jun-15	BORE HOLE 14.SSF	131946.34	
722175.846	4294224.833	4822	08-Jun-15	BORE HOLE 14.SSF	131800.596	
722182.016	4294228.245	4822	08-Jun-15	BORE HOLE 14.SSF	132258.58	
722175.68	4294221.074	4822	08-Jun-15	BORE HOLE 14.SSF	132051.443	
722180.762	4294226.2	4822	08-Jun-15	BORE HOLE 14.SSF	132130.357	
722182.244	4294227.334	4825	08-Jun-15	BORE HOLE 14.SSF	132199.339	
722175.251	4294221.299	4826	08-Jun-15	BORE HOLE 14.SSF	132272.456	
722179.019	4294221.445	4828	08-Jun-15	BORE HOLE 14.SSF	132031.494	
722178.858	4294224.935	4831	08-Jun-15	BORE HOLE 14.SSF	132157.217	
722179.926	4294224.354	4831	08-Jun-15	BORE HOLE 14.SSF	132318.432	
722179.375	4294223.297	4832	08-Jun-15	BORE HOLE 14.SSF	132333.108	
722185.642	4294236.182	4833	08-Jun-15	BORE HOLE 14.SSF	131663.549	
722187.266	4294235.423	4834	08-Jun-15	BORE HOLE 14.SSF	132244.48	
722177.546	4294221.862	4834	08-Jun-15	BORE HOLE 14.SSF	132139.398	
722177.536	4294223.44	4837	08-Jun-15	BORE HOLE 14.SSF	132222.309	
722184.325	4294231.126	4837	08-Jun-15	BORE HOLE 14.SSF	132119.356	
722182.77	4294230.293	4839	08-Jun-15	BORE HOLE 14.SSF	132070.344	
722174.849	4294218.753	4839	08-Jun-15	BORE HOLE 14.SSF	132145.386	
722171.99	4294217.473	4842	08-Jun-15	BORE HOLE 14.SSF	131596.564	
722177.281	4294227.089	4843	08-Jun-15	BORE HOLE 14.SSF	131639.349	
722179.44	4294227.668	4844	08-Jun-15	BORE HOLE 14.SSF	131980.358	
722174.964	4294223.689	4847	08-Jun-15	BORE HOLE 14.SSF	131797.463	
722179.155	4294224.893	4847	08-Jun-15	BORE HOLE 14.SSF	132264.287	
722180.133	4294226.045	4848	08-Jun-15	BORE HOLE 14.SSF	132262.49	

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722179.096	4294225.602	4852	08-Jun-15	BORE HOLE 14.SSF	132226.314	
722176.895	4294222.177	4854	08-Jun-15	BORE HOLE 14.SSF	132364.348	
722177.593	4294226.397	4856	08-Jun-15	BORE HOLE 14.SSF	131809.439	
722181.929	4294228.844	4856	08-Jun-15	BORE HOLE 14.SSF	132165.207	
722177.817	4294223.985	4858	08-Jun-15	BORE HOLE 14.SSF	132223.318	
722176.903	4294224.002	4860	08-Jun-15	BORE HOLE 14.SSF	132277.193	
722173.508	4294217.128	4863	08-Jun-15	BORE HOLE 14.SSF	131949.331	
722184.502	4294232.264	4866	08-Jun-15	BORE HOLE 14.SSF	132171.438	
722178.922	4294219.991	4869	08-Jun-15	BORE HOLE 14.SSF	131902.402	
722181.315	4294226.376	4869	08-Jun-15	BORE HOLE 14.SSF	132201.303	
722170.157	4294213.863	4871	08-Jun-15	BORE HOLE 14.SSF	131580.629	
722177.421	4294224.703	4871	08-Jun-15	BORE HOLE 14.SSF	132278.277	
722177.32	4294223.542	4877	08-Jun-15	BORE HOLE 14.SSF	132056.389	
722184.419	4294231.686	4878	08-Jun-15	BORE HOLE 14.SSF	132237.16	
722178.127	4294220.732	4878	08-Jun-15	BORE HOLE 14.SSF	132339.467	
722177.26	4294223.023	4880	08-Jun-15	BORE HOLE 14.SSF	132221.462	
722174.307	4294219.596	4880	08-Jun-15	BORE HOLE 14.SSF	132048.377	
722188.868	4294231.805	4882	08-Jun-15	BORE HOLE 14.SSF	131705.488	
722181.809	4294229.597	4882	08-Jun-15	BORE HOLE 14.SSF	132287.484	
722180.059	4294222.248	4883	08-Jun-15	BORE HOLE 14.SSF	132335.305	
722184.617	4294229.35	4884	08-Jun-15	BORE HOLE 14.SSF	132016.395	
722177.608	4294223.965	4888	08-Jun-15	BORE HOLE 14.SSF	132057.174	
722173.141	4294220.818	4890	08-Jun-15	BORE HOLE 14.SSF	131602.559	
722183.516	4294231.242	4890	08-Jun-15	BORE HOLE 14.SSF	132072.382	
722180.619	4294226.958	4892	08-Jun-15	BORE HOLE 14.SSF	132161.458	
722179.211	4294222.843	4894	08-Jun-15	BORE HOLE 14.SSF	132321.464	
722173.525	4294217.26	4899	08-Jun-15	BORE HOLE 14.SSF	131936.503	
722173.497	4294217.087	4902	08-Jun-15	BORE HOLE 14.SSF	131944.391	
722182.611	4294226.502	4904	08-Jun-15	BORE HOLE 14.SSF	132021.476	
722172.765	4294219.834	4905	08-Jun-15	BORE HOLE 14.SSF	131600.353	
722175.817	4294218.367	4906	08-Jun-15	BORE HOLE 14.SSF	132038.348	
722181.154	4294226.677	4906	08-Jun-15	BORE HOLE 14.SSF	132129.359	
722178.012	4294218.834	4909	08-Jun-15	BORE HOLE 14.SSF	131904.756	
722176.279	4294218.814	4909	08-Jun-15	BORE HOLE 14.SSF	132037.499	
722175.187	4294220.606	4910	08-Jun-15	BORE HOLE 14.SSF	132050.388	
722177.325	4294222.158	4923	08-Jun-15	BORE HOLE 14.SSF	132342.484	
722176.832	4294219.375	4928	08-Jun-15	BORE HOLE 14.SSF	132036.454	
722178.064	4294223.104	4930	08-Jun-15	BORE HOLE 14.SSF	132331.097	
722170.056	4294214.026	4934	08-Jun-15	BORE HOLE 14.SSF	131582.605	
722173.918	4294218.301	4936	08-Jun-15	BORE HOLE 14.SSF	131962.55	
722185.192	4294227.115	4938	08-Jun-15	BORE HOLE 14.SSF	131888.452	
722175.806	4294221.095	4939	08-Jun-15	BORE HOLE 14.SSF	132271.388	
722178.806	4294220.698	4939	08-Jun-15	BORE HOLE 14.SSF	132338.361	
722179.051	4294221.288	4939	08-Jun-15	BORE HOLE 14.SSF	132353.228	
722173.008	4294220.121	4941	08-Jun-15	BORE HOLE 14.SSF	131790.62	
722185.965	4294228.099	4941	08-Jun-15	BORE HOLE 14.SSF	131886.429	
722185.47	4294233.935	4942	08-Jun-15	BORE HOLE 14.SSF	131993.429	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722174.519	4294219.988	4942	08-Jun-15	BORE HOLE 14.SSF	132049.105	
722173.493	4294221.189	4943	08-Jun-15	BORE HOLE 14.SSF	131792.543	
722184.831	4294231.933	4946	08-Jun-15	BORE HOLE 14.SSF	132117.35	
722186.515	4294229.098	4951	08-Jun-15	BORE HOLE 14.SSF	131884.353	
722181.238	4294227.828	4957	08-Jun-15	BORE HOLE 14.SSF	132163.247	
722179.743	4294222.264	4957	08-Jun-15	BORE HOLE 14.SSF	132323.358	
722174.48	4294219.233	4958	08-Jun-15	BORE HOLE 14.SSF	131964.38	
722173.205	4294220.573	4962	08-Jun-15	BORE HOLE 14.SSF	131791.451	
722181.834	4294226.989	4964	08-Jun-15	BORE HOLE 14.SSF	132200.224	
722177.621	4294226.342	4970	08-Jun-15	BORE HOLE 14.SSF	131815.301	
722177.624	4294226.339	4970	08-Jun-15	BORE HOLE 14.SSF	131816.396	
722173.334	4294216.574	4973	08-Jun-15	BORE HOLE 14.SSF	131933.389	
722183.829	4294228.217	4974	08-Jun-15	BORE HOLE 14.SSF	132018.35	
722176.193	4294225.19	4977	08-Jun-15	BORE HOLE 14.SSF	131801.534	
722183.5	4294230.585	4981	08-Jun-15	BORE HOLE 14.SSF	132235.265	
722177.027	4294226.844	4983	08-Jun-15	BORE HOLE 14.SSF	131638.48	
722177.343	4294222.011	4985	08-Jun-15	BORE HOLE 14.SSF	132209.21	
722181.432	4294226.113	4985	08-Jun-15	BORE HOLE 14.SSF	132315.173	
722172.436	4294218.809	4986	08-Jun-15	BORE HOLE 14.SSF	131598.557	
722185.253	4294232.796	4986	08-Jun-15	BORE HOLE 14.SSF	132239.094	
722184.248	4294228.818	4990	08-Jun-15	BORE HOLE 14.SSF	132017.308	
722185.656	4294227.624	4992	08-Jun-15	BORE HOLE 14.SSF	131887.433	
722170.195	4294213.855	4993	08-Jun-15	BORE HOLE 14.SSF	131579.329	
722177.677	4294221.087	4994	08-Jun-15	BORE HOLE 14.SSF	132340.356	
722180.316	4294228.629	5000	08-Jun-15	BORE HOLE 14.SSF	131982.427	
722179.656	4294222.159	5003	08-Jun-15	BORE HOLE 14.SSF	132349.134	
722181.152	4294224.447	5004	08-Jun-15	BORE HOLE 14.SSF	132025.525	
722186.857	4294234.533	5006	08-Jun-15	BORE HOLE 14.SSF	132298.454	
722175.104	4294220.633	5008	08-Jun-15	BORE HOLE 14.SSF	132148.343	
722186.402	4294232.348	5008	08-Jun-15	BORE HOLE 14.SSF	132302.097	
722174.306	4294222.76	5010	08-Jun-15	BORE HOLE 14.SSF	131795.372	
722184.05	4294231.006	5013	08-Jun-15	BORE HOLE 14.SSF	132253.458	
722173.46	4294217.131	5014	08-Jun-15	BORE HOLE 14.SSF	131940.484	
722180.458	4294227.952	5014	08-Jun-15	BORE HOLE 14.SSF	132284.342	
722186.254	4294233.023	5020	08-Jun-15	BORE HOLE 14.SSF	132188.467	
722184.789	4294232.184	5023	08-Jun-15	BORE HOLE 14.SSF	132251.497	
722178.291	4294223.072	5028	08-Jun-15	BORE HOLE 14.SSF	132207.217	
722187.985	4294229.792	5029	08-Jun-15	BORE HOLE 14.SSF	131719.386	
722178.518	4294224.496	5029	08-Jun-15	BORE HOLE 14.SSF	132156.408	
722179.231	4294223.21	5035	08-Jun-15	BORE HOLE 14.SSF	132320.376	
722175.405	4294225.345	5036	08-Jun-15	BORE HOLE 14.SSF	131615.304	
722176.852	4294225.855	5036	08-Jun-15	BORE HOLE 14.SSF	131803.337	
722179.267	4294221.917	5036	08-Jun-15	BORE HOLE 14.SSF	132030.363	
722176.999	4294222.153	5039	08-Jun-15	BORE HOLE 14.SSF	132366.439	
722172.632	4294219.4	5040	08-Jun-15	BORE HOLE 14.SSF	131599.519	
722177.61	4294226.36	5043	08-Jun-15	BORE HOLE 14.SSF	131812.342	
722181.516	4294224.886	5043	08-Jun-15	BORE HOLE 14.SSF	132024.493	

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722185.877	4294232.402	5044	08-Jun-15	BORE HOLE 14.SSF	132189.372	
722177.606	4294226.37	5045	08-Jun-15	BORE HOLE 14.SSF	131811.468	
722173.508	4294217.122	5045	08-Jun-15	BORE HOLE 14.SSF	131948.558	
722183.587	4294230.155	5046	08-Jun-15	BORE HOLE 14.SSF	132122.269	
722185.999	4294236.507	5051	08-Jun-15	BORE HOLE 14.SSF	131664.678	
722182.414	4294227.219	5056	08-Jun-15	BORE HOLE 14.SSF	132313.475	
722185.373	4294233.444	5058	08-Jun-15	BORE HOLE 14.SSF	132295.234	
722179.384	4294221.089	5060	08-Jun-15	BORE HOLE 14.SSF	132337.343	
722182.2	4294225.872	5061	08-Jun-15	BORE HOLE 14.SSF	132022.541	
722184.084	4294231.686	5065	08-Jun-15	BORE HOLE 14.SSF	132170.377	
722175.145	4294225.115	5066	08-Jun-15	BORE HOLE 14.SSF	131623.453	
722183.799	4294228.89	5067	08-Jun-15	BORE HOLE 14.SSF	132310.362	
722189.083	4294232.472	5068	08-Jun-15	BORE HOLE 14.SSF	131703.474	
722178.559	4294225.214	5077	08-Jun-15	BORE HOLE 14.SSF	132059.507	
722175.225	4294225.108	5078	08-Jun-15	BORE HOLE 14.SSF	131617.493	
722186.741	4294237.487	5080	08-Jun-15	BORE HOLE 14.SSF	131667.298	
722179.096	4294221.227	5081	08-Jun-15	BORE HOLE 14.SSF	132325.173	
722173.457	4294217.138	5085	08-Jun-15	BORE HOLE 14.SSF	131941.278	
722171.562	4294216.504	5087	08-Jun-15	BORE HOLE 14.SSF	131784.619	
722177.584	4294226.4	5088	08-Jun-15	BORE HOLE 14.SSF	131807.479	
722177.282	4294226.191	5090	08-Jun-15	BORE HOLE 14.SSF	131804.496	
722184.876	4294232.283	5091	08-Jun-15	BORE HOLE 14.SSF	132238.245	
722186.852	4294235.037	5101	08-Jun-15	BORE HOLE 14.SSF	132243.167	
722179.77	4294221.807	5101	08-Jun-15	BORE HOLE 14.SSF	132350.238	
722179.834	4294228.064	5102	08-Jun-15	BORE HOLE 14.SSF	131981.251	
722189.193	4294232.769	5103	08-Jun-15	BORE HOLE 14.SSF	131702.552	
722175.296	4294224.139	5103	08-Jun-15	BORE HOLE 14.SSF	131798.581	
722173.529	4294217.193	5103	08-Jun-15	BORE HOLE 14.SSF	131937.346	
722188.029	4294229.773	5107	08-Jun-15	BORE HOLE 14.SSF	131712.457	
722169.967	4294214.223	5108	08-Jun-15	BORE HOLE 14.SSF	131585.46	
722186.735	4294229.567	5109	08-Jun-15	BORE HOLE 14.SSF	131883.463	
722185.301	4294232.288	5113	08-Jun-15	BORE HOLE 14.SSF	132116.235	
722182.481	4294230.926	5115	08-Jun-15	BORE HOLE 14.SSF	131987.245	
722186.657	4294235.365	5115	08-Jun-15	BORE HOLE 14.SSF	132081.486	
722177.767	4294222.492	5116	08-Jun-15	BORE HOLE 14.SSF	132208.311	
722177.769	4294221.243	5116	08-Jun-15	BORE HOLE 14.SSF	132356.473	
722179.84	4294221.584	5117	08-Jun-15	BORE HOLE 14.SSF	132336.362	
722178.412	4294227.901	5118	08-Jun-15	BORE HOLE 14.SSF	131825.499	
722171.752	4294216.955	5119	08-Jun-15	BORE HOLE 14.SSF	131785.317	
722186.498	4294237.245	5125	08-Jun-15	BORE HOLE 14.SSF	131666.557	
722173.949	4294223.276	5131	08-Jun-15	BORE HOLE 14.SSF	131607.504	
722178.715	4294224.4	5134	08-Jun-15	BORE HOLE 14.SSF	132265.218	
722185.917	4294234.419	5135	08-Jun-15	BORE HOLE 14.SSF	131994.412	
722176.825	4294222.163	5141	08-Jun-15	BORE HOLE 14.SSF	132362.373	
722185.728	4294231.096	5143	08-Jun-15	BORE HOLE 14.SSF	132013.334	
722176.995	4294222.158	5145	08-Jun-15	BORE HOLE 14.SSF	132365.2	
722170.16	4294214.28	5146	08-Jun-15	BORE HOLE 14.SSF	131586.552	

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722173.874	4294212.533	5146	08-Jun-15	BORE HOLE 14.SSF	131919.371	
722186.295	4294234.765	5147	08-Jun-15	BORE HOLE 14.SSF	132080.345	
722183.047	4294230.583	5149	08-Jun-15	BORE HOLE 14.SSF	132168.196	
722186.199	4294236.823	5151	08-Jun-15	BORE HOLE 14.SSF	131665.495	
722179.892	4294227.286	5155	08-Jun-15	BORE HOLE 14.SSF	132283.235	
722182.54	4294230.537	5157	08-Jun-15	BORE HOLE 14.SSF	132289.191	
722173.189	4294215.995	5161	08-Jun-15	BORE HOLE 14.SSF	131932.473	
722187.786	4294236.615	5161	08-Jun-15	BORE HOLE 14.SSF	132084.387	
722184.997	4294229.966	5163	08-Jun-15	BORE HOLE 14.SSF	132015.337	
722185.761	4294234.038	5170	08-Jun-15	BORE HOLE 14.SSF	132296.347	
722187.629	4294235.392	5171	08-Jun-15	BORE HOLE 14.SSF	132245.364	
722177.363	4294220.006	5174	08-Jun-15	BORE HOLE 14.SSF	132035.365	
722176.18	4294215.802	5176	08-Jun-15	BORE HOLE 14.SSF	131911.418	
722188.414	4294230.548	5177	08-Jun-15	BORE HOLE 14.SSF	131708.446	
722179.617	4294225.884	5177	08-Jun-15	BORE HOLE 14.SSF	132159.091	
722180.147	4294226.47	5177	08-Jun-15	BORE HOLE 14.SSF	132160.345	
722175.325	4294225.139	5180	08-Jun-15	BORE HOLE 14.SSF	131630.491	
722178.963	4294226.345	5185	08-Jun-15	BORE HOLE 14.SSF	132281.234	
722177.498	4294221.601	5186	08-Jun-15	BORE HOLE 14.SSF	132328.099	
722183.572	4294231.084	5191	08-Jun-15	BORE HOLE 14.SSF	132169.295	
722183.304	4294225.035	5196	08-Jun-15	BORE HOLE 14.SSF	131892.407	
722177.123	4294222.113	5198	08-Jun-15	BORE HOLE 14.SSF	132374.308	
722181.438	4294228.931	5201	08-Jun-15	BORE HOLE 14.SSF	132067.237	
722178.066	4294227.242	5204	08-Jun-15	BORE HOLE 14.SSF	131823.343	
722175.178	4294225.06	5205	08-Jun-15	BORE HOLE 14.SSF	131624.498	
722173.464	4294217.114	5208	08-Jun-15	BORE HOLE 14.SSF	131942.354	
722177.023	4294222.157	5212	08-Jun-15	BORE HOLE 14.SSF	132367.305	
722179.817	4294222.759	5214	08-Jun-15	BORE HOLE 14.SSF	132028.493	
722183.077	4294230.115	5215	08-Jun-15	BORE HOLE 14.SSF	132234.338	
722178.758	4294221.036	5215	08-Jun-15	BORE HOLE 14.SSF	132354.348	
722178.495	4294219.539	5221	08-Jun-15	BORE HOLE 14.SSF	131903.462	
722177.435	4294222.514	5221	08-Jun-15	BORE HOLE 14.SSF	132343.1	
722174.016	4294222.228	5227	08-Jun-15	BORE HOLE 14.SSF	131794.381	
722169.969	4294214.168	5228	08-Jun-15	BORE HOLE 14.SSF	131584.345	
722177.576	4294226.388	5233	08-Jun-15	BORE HOLE 14.SSF	131806.471	
722177.621	4294226.328	5233	08-Jun-15	BORE HOLE 14.SSF	131817.507	
722184.438	4294231.725	5233	08-Jun-15	BORE HOLE 14.SSF	132252.306	
722185.317	4294230.431	5233	08-Jun-15	BORE HOLE 14.SSF	132014.472	
722177.598	4294226.383	5236	08-Jun-15	BORE HOLE 14.SSF	131810.537	
722179.216	4294220.353	5242	08-Jun-15	BORE HOLE 14.SSF	131901.619	
722176.367	4294216.14	5242	08-Jun-15	BORE HOLE 14.SSF	131910.364	
722178.512	4294220.945	5243	08-Jun-15	BORE HOLE 14.SSF	132326.251	
722181.002	4294222.339	5244	08-Jun-15	BORE HOLE 14.SSF	131897.389	
722170.938	4294214.652	5246	08-Jun-15	BORE HOLE 14.SSF	131781.439	
722185.491	4294231.792	5252	08-Jun-15	BORE HOLE 14.SSF	132190.346	
722184.405	4294234.892	5254	08-Jun-15	BORE HOLE 14.SSF	131659.651	
722177.115	4294222.113	5255	08-Jun-15	BORE HOLE 14.SSF	132373.218	

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722187.777	4294234.933	5256	08-Jun-15	BORE HOLE 14.SSF	132246.412	
722187.384	4294231.062	5258	08-Jun-15	BORE HOLE 14.SSF	131880.54	
722173.465	4294217.128	5261	08-Jun-15	BORE HOLE 14.SSF	131939.342	
722186.915	4294235.789	5262	08-Jun-15	BORE HOLE 14.SSF	132082.364	
722180.915	4294228.557	5265	08-Jun-15	BORE HOLE 14.SSF	132285.393	
722188.929	4294232.152	5266	08-Jun-15	BORE HOLE 14.SSF	131704.595	
722183.481	4294231.836	5266	08-Jun-15	BORE HOLE 14.SSF	131989.255	
722176.828	4294222.163	5269	08-Jun-15	BORE HOLE 14.SSF	132363.099	
722181.462	4294222.883	5270	08-Jun-15	BORE HOLE 14.SSF	131896.454	
722184.068	4294230.735	5271	08-Jun-15	BORE HOLE 14.SSF	132120.416	
722177.427	4294222.44	5272	08-Jun-15	BORE HOLE 14.SSF	132329.403	
722177.122	4294222.131	5274	08-Jun-15	BORE HOLE 14.SSF	132371.128	
722183.087	4294230.687	5279	08-Jun-15	BORE HOLE 14.SSF	132071.218	
722187.208	4294234.055	5283	08-Jun-15	BORE HOLE 14.SSF	132299.343	
722184.321	4294232.493	5284	08-Jun-15	BORE HOLE 14.SSF	132075.472	
722184.92	4294232.96	5285	08-Jun-15	BORE HOLE 14.SSF	132294.256	
722181.895	4294223.463	5289	08-Jun-15	BORE HOLE 14.SSF	131895.42	
722186.902	4294232.893	5289	08-Jun-15	BORE HOLE 14.SSF	132301.092	
722180.474	4294230.934	5294	08-Jun-15	BORE HOLE 14.SSF	131834.355	
722182.353	4294229.911	5296	08-Jun-15	BORE HOLE 14.SSF	132069.365	
722185.923	4294235.87	5297	08-Jun-15	BORE HOLE 14.SSF	131848.358	
722177.344	4294221.5	5299	08-Jun-15	BORE HOLE 14.SSF	132341.345	
722186.242	4294234.482	5300	08-Jun-15	BORE HOLE 14.SSF	132297.418	
722184.319	4294229.364	5302	08-Jun-15	BORE HOLE 14.SSF	132309.121	
722174.596	4294219.902	5303	08-Jun-15	BORE HOLE 14.SSF	132147.237	
722174.996	4294224.566	5304	08-Jun-15	BORE HOLE 14.SSF	131610.712	
722177.495	4294217.892	5304	08-Jun-15	BORE HOLE 14.SSF	131906.478	
722185.05	4294233.541	5306	08-Jun-15	BORE HOLE 14.SSF	131992.586	
722178.277	4294227.571	5312	08-Jun-15	BORE HOLE 14.SSF	131824.411	
722187.101	4294236.807	5313	08-Jun-15	BORE HOLE 14.SSF	131851.542	
722185.137	4294230.678	5313	08-Jun-15	BORE HOLE 14.SSF	132306.278	
722173.486	4294217.088	5314	08-Jun-15	BORE HOLE 14.SSF	131943.533	
722179.217	4294221.464	5314	08-Jun-15	BORE HOLE 14.SSF	132352.345	
722187.959	4294229.782	5320	08-Jun-15	BORE HOLE 14.SSF	131722.475	
722171.025	4294214.817	5324	08-Jun-15	BORE HOLE 14.SSF	131589.479	
722175.218	4294225.032	5326	08-Jun-15	BORE HOLE 14.SSF	131628.491	
722187.961	4294229.76	5332	08-Jun-15	BORE HOLE 14.SSF	131723.342	
722179.663	4294220.908	5334	08-Jun-15	BORE HOLE 14.SSF	131900.494	
722187.053	4294234.163	5334	08-Jun-15	BORE HOLE 14.SSF	132112.382	
722186.406	4294232.127	5336	08-Jun-15	BORE HOLE 14.SSF	132011.535	
722187.118	4294237.767	5340	08-Jun-15	BORE HOLE 14.SSF	131668.513	
722187.976	4294229.786	5341	08-Jun-15	BORE HOLE 14.SSF	131720.503	
722177.956	4294228.189	5344	08-Jun-15	BORE HOLE 14.SSF	131641.601	
722179.054	4294228.913	5347	08-Jun-15	BORE HOLE 14.SSF	131829.361	
722181.281	4294229.049	5347	08-Jun-15	BORE HOLE 14.SSF	132286.32	
722181.965	4294227.757	5348	08-Jun-15	BORE HOLE 14.SSF	132127.211	
722172.297	4294218.304	5349	08-Jun-15	BORE HOLE 14.SSF	131787.419	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722186.95	4294230.093	5350	08-Jun-15	BORE HOLE 14.SSF	131882.456	
722176.942	4294222.149	5352	08-Jun-15	BORE HOLE 14.SSF	132361.125	
722179.49	4294221.582	5353	08-Jun-15	BORE HOLE 14.SSF	132324.479	
722184.005	4294232.444	5354	08-Jun-15	BORE HOLE 14.SSF	131990.343	
722186.059	4294231.641	5356	08-Jun-15	BORE HOLE 14.SSF	132012.446	
722188.299	4294230.298	5357	08-Jun-15	BORE HOLE 14.SSF	131709.254	
722186.287	4294228.589	5357	08-Jun-15	BORE HOLE 14.SSF	131885.35	
722188.034	4294229.78	5360	08-Jun-15	BORE HOLE 14.SSF	131711.536	
722174.163	4294223.694	5361	08-Jun-15	BORE HOLE 14.SSF	131608.304	
722182.009	4294229.537	5363	08-Jun-15	BORE HOLE 14.SSF	132068.522	
722177.543	4294221.452	5367	08-Jun-15	BORE HOLE 14.SSF	132357.432	
722183.148	4294231.035	5369	08-Jun-15	BORE HOLE 14.SSF	132290.314	
722172.862	4294214.735	5370	08-Jun-15	BORE HOLE 14.SSF	131930.467	
722180.528	4294221.882	5372	08-Jun-15	BORE HOLE 14.SSF	131898.385	
722173.506	4294217.173	5372	08-Jun-15	BORE HOLE 14.SSF	131954.435	
722175.082	4294225.243	5373	08-Jun-15	BORE HOLE 14.SSF	131625.658	
722182.886	4294229.345	5373	08-Jun-15	BORE HOLE 14.SSF	132124.503	
722173.453	4294217.282	5376	08-Jun-15	BORE HOLE 14.SSF	131935.356	
722172.023	4294217.661	5377	08-Jun-15	BORE HOLE 14.SSF	131786.392	
722187.963	4294229.787	5378	08-Jun-15	BORE HOLE 14.SSF	131721.412	
722177.978	4294221.033	5379	08-Jun-15	BORE HOLE 14.SSF	132327.143	
722175.392	4294225.314	5380	08-Jun-15	BORE HOLE 14.SSF	131614.498	
722188.073	4294229.917	5383	08-Jun-15	BORE HOLE 14.SSF	131710.402	
722173.502	4294217.157	5385	08-Jun-15	BORE HOLE 14.SSF	131952.369	
722179.441	4294222.643	5385	08-Jun-15	BORE HOLE 14.SSF	132322.241	
722184.954	4294230.136	5388	08-Jun-15	BORE HOLE 14.SSF	132307.373	
722187.351	4294236.335	5394	08-Jun-15	BORE HOLE 14.SSF	132179.484	
722175.341	4294225.06	5396	08-Jun-15	BORE HOLE 14.SSF	131629.578	
722188.019	4294229.789	5403	08-Jun-15	BORE HOLE 14.SSF	131714.457	
722185.742	4294231.848	5404	08-Jun-15	BORE HOLE 14.SSF	132303.214	
722189.365	4294233.136	5406	08-Jun-15	BORE HOLE 14.SSF	131701.43	
722186.775	4294235.416	5406	08-Jun-15	BORE HOLE 14.SSF	131996.394	
722188.011	4294229.802	5409	08-Jun-15	BORE HOLE 14.SSF	131715.26	
722184.405	4294232.492	5409	08-Jun-15	BORE HOLE 14.SSF	132293.158	
722189.607	4294233.523	5412	08-Jun-15	BORE HOLE 14.SSF	131700.399	
722177.318	4294221.783	5413	08-Jun-15	BORE HOLE 14.SSF	132359.371	
722185.017	4294235.557	5415	08-Jun-15	BORE HOLE 14.SSF	131661.45	
722184.463	4294234.846	5418	08-Jun-15	BORE HOLE 14.SSF	131845.444	
722179.706	4294229.652	5419	08-Jun-15	BORE HOLE 14.SSF	131831.43	
722182.009	4294225.529	5419	08-Jun-15	BORE HOLE 14.SSF	132023.092	
722177.109	4294222.078	5422	08-Jun-15	BORE HOLE 14.SSF	132360.474	
722185.355	4294232.957	5423	08-Jun-15	BORE HOLE 14.SSF	132250.269	
722170.142	4294213.919	5425	08-Jun-15	BORE HOLE 14.SSF	131581.471	
722183.783	4294230.363	5425	08-Jun-15	BORE HOLE 14.SSF	132121.547	
722180.237	4294230.544	5426	08-Jun-15	BORE HOLE 14.SSF	131833.362	
722173.466	4294212.078	5429	08-Jun-15	BORE HOLE 14.SSF	131920.34	
722175.961	4294215.502	5431	08-Jun-15	BORE HOLE 14.SSF	131912.445	

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722185.13	4294231.137	5445	08-Jun-15	BORE HOLE 14.SSF	132305.272	
722185.316	4294235.898	5446	08-Jun-15	BORE HOLE 14.SSF	131662.417	
722177.616	4294226.411	5457	08-Jun-15	BORE HOLE 14.SSF	131820.342	
722186.745	4294232.692	5459	08-Jun-15	BORE HOLE 14.SSF	132010.47	
722180.701	4294231.368	5460	08-Jun-15	BORE HOLE 14.SSF	131835.481	
722186.509	4294233.655	5460	08-Jun-15	BORE HOLE 14.SSF	132113.376	
722169.986	4294214.099	5467	08-Jun-15	BORE HOLE 14.SSF	131583.468	
722184.737	4294235.253	5467	08-Jun-15	BORE HOLE 14.SSF	131660.63	
722173.505	4294217.177	5467	08-Jun-15	BORE HOLE 14.SSF	131955.239	
722178.263	4294220.96	5468	08-Jun-15	BORE HOLE 14.SSF	132355.342	
722182.003	4294226.614	5476	08-Jun-15	BORE HOLE 14.SSF	132314.308	
722175.041	4294225.082	5482	08-Jun-15	BORE HOLE 14.SSF	131627.346	
722175.155	4294225.1	5483	08-Jun-15	BORE HOLE 14.SSF	131612.494	
722180.024	4294230.184	5486	08-Jun-15	BORE HOLE 14.SSF	131832.55	
722186.348	4294234.933	5490	08-Jun-15	BORE HOLE 14.SSF	131995.385	
722184.653	4294226.547	5492	08-Jun-15	BORE HOLE 14.SSF	131889.528	
722175.827	4294215.229	5492	08-Jun-15	BORE HOLE 14.SSF	131913.293	
722177.617	4294226.321	5493	08-Jun-15	BORE HOLE 14.SSF	131818.341	
722173.048	4294215.156	5495	08-Jun-15	BORE HOLE 14.SSF	131931.29	
722177.177	4294217.398	5496	08-Jun-15	BORE HOLE 14.SSF	131907.5	
722178.524	4294225.898	5498	08-Jun-15	BORE HOLE 14.SSF	132280.344	
722175.243	4294214.402	5500	08-Jun-15	BORE HOLE 14.SSF	131915.462	
722185.704	4294233.843	5502	08-Jun-15	BORE HOLE 14.SSF	132174.45	
722187.144	4294233.4	5505	08-Jun-15	BORE HOLE 14.SSF	132009.216	
722184.601	4294229.647	5506	08-Jun-15	BORE HOLE 14.SSF	132308.482	
722185.248	4294231.497	5507	08-Jun-15	BORE HOLE 14.SSF	132304.347	
722172	4294213.082	5512	08-Jun-15	BORE HOLE 14.SSF	131927.371	
722184.099	4294234.512	5513	08-Jun-15	BORE HOLE 14.SSF	131844.427	
722171.518	4294215.811	5514	08-Jun-15	BORE HOLE 14.SSF	131593.373	
722177.625	4294227.697	5514	08-Jun-15	BORE HOLE 14.SSF	131640.461	
722183.981	4294234.559	5514	08-Jun-15	BORE HOLE 14.SSF	131658.607	
722177.39	4294221.56	5516	08-Jun-15	BORE HOLE 14.SSF	132358.474	
722175.015	4294225.159	5519	08-Jun-15	BORE HOLE 14.SSF	131626.713	
722174.18	4294212.937	5522	08-Jun-15	BORE HOLE 14.SSF	131918.487	
722170.765	4294214.172	5527	08-Jun-15	BORE HOLE 14.SSF	131780.5	
722176.814	4294216.897	5529	08-Jun-15	BORE HOLE 14.SSF	131908.598	
722172.936	4294220.316	5534	08-Jun-15	BORE HOLE 14.SSF	131601.397	
722184.944	4294232.892	5535	08-Jun-15	BORE HOLE 14.SSF	132172.56	
722177.702	4294222.9	5538	08-Jun-15	BORE HOLE 14.SSF	132330.308	
722171.663	4294216.431	5539	08-Jun-15	BORE HOLE 14.SSF	131594.467	
722184.534	4294232.975	5539	08-Jun-15	BORE HOLE 14.SSF	131991.461	
722187.887	4294236.743	5547	08-Jun-15	BORE HOLE 14.SSF	132180.537	
722187.618	4294231.691	5548	08-Jun-15	BORE HOLE 14.SSF	131879.567	
722187.361	4294233.802	5548	08-Jun-15	BORE HOLE 14.SSF	132008.552	
722170.852	4294214.666	5558	08-Jun-15	BORE HOLE 14.SSF	131588.552	
722177.905	4294226.948	5558	08-Jun-15	BORE HOLE 14.SSF	131822.55	
722171.78	4294216.929	5568	08-Jun-15	BORE HOLE 14.SSF	131595.491	

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722171.118	4294215.127	5568	08-Jun-15	BORE HOLE 14.SSF	131782.498	
722186.655	4294235.348	5574	08-Jun-15	BORE HOLE 14.SSF	132177.429	
722187.865	4294229.598	5579	08-Jun-15	BORE HOLE 14.SSF	131724.474	
722179.509	4294222.392	5580	08-Jun-15	BORE HOLE 14.SSF	132029.306	
722178.772	4294228.564	5587	08-Jun-15	BORE HOLE 14.SSF	131828.324	
722188.71	4294236.536	5593	08-Jun-15	BORE HOLE 14.SSF	132182.33	
722177.612	4294226.347	5595	08-Jun-15	BORE HOLE 14.SSF	131819.484	
722170.595	4294214.473	5602	08-Jun-15	BORE HOLE 14.SSF	131587.6	
722187.187	4294230.617	5605	08-Jun-15	BORE HOLE 14.SSF	131881.366	
722187.917	4294232.379	5610	08-Jun-15	BORE HOLE 14.SSF	131878.462	
722177.778	4294220.361	5612	08-Jun-15	BORE HOLE 14.SSF	132034.491	
722189.913	4294234.008	5621	08-Jun-15	BORE HOLE 14.SSF	131699.344	
722188.302	4294235.724	5621	08-Jun-15	BORE HOLE 14.SSF	132183.462	
722175.166	4294225.208	5627	08-Jun-15	BORE HOLE 14.SSF	131613.25	
722187.999	4294229.803	5630	08-Jun-15	BORE HOLE 14.SSF	131716.365	
722178.273	4294228.624	5631	08-Jun-15	BORE HOLE 14.SSF	131642.614	
722177.119	4294222.125	5636	08-Jun-15	BORE HOLE 14.SSF	132372.307	
722185.692	4294232.717	5637	08-Jun-15	BORE HOLE 14.SSF	132115.327	
722182.333	4294223.963	5643	08-Jun-15	BORE HOLE 14.SSF	131894.424	
722171.316	4294215.764	5644	08-Jun-15	BORE HOLE 14.SSF	131783.544	
722177.883	4294214.88	5645	08-Jun-15	BORE HOLE 14.SSF	131760.58	
722179.365	4294229.269	5648	08-Jun-15	BORE HOLE 14.SSF	131830.4	
722187.775	4294234.521	5649	08-Jun-15	BORE HOLE 14.SSF	132007.388	
722174.602	4294213.492	5657	08-Jun-15	BORE HOLE 14.SSF	131917.273	
722175.258	4294225.184	5668	08-Jun-15	BORE HOLE 14.SSF	131616.488	
722175.148	4294224.826	5669	08-Jun-15	BORE HOLE 14.SSF	131611.494	
722174.607	4294224.209	5670	08-Jun-15	BORE HOLE 14.SSF	131609.618	
722186.987	4294235.865	5670	08-Jun-15	BORE HOLE 14.SSF	132178.449	
722187.989	4294229.8	5679	08-Jun-15	BORE HOLE 14.SSF	131717.452	
722171.162	4294214.982	5687	08-Jun-15	BORE HOLE 14.SSF	131590.712	
722177.71	4294226.574	5694	08-Jun-15	BORE HOLE 14.SSF	131821.395	
722177.852	4294225.208	5695	08-Jun-15	BORE HOLE 14.SSF	132279.094	
722178.55	4294228.168	5699	08-Jun-15	BORE HOLE 14.SSF	131826.58	
722181.477	4294227.105	5708	08-Jun-15	BORE HOLE 14.SSF	132128.517	
722186.366	4294236.243	5709	08-Jun-15	BORE HOLE 14.SSF	131849.415	
722189.972	4294236.233	5755	08-Jun-15	BORE HOLE 14.SSF	132089.339	
722187.164	4294235.885	5763	08-Jun-15	BORE HOLE 14.SSF	131997.362	
722187.984	4294229.798	5767	08-Jun-15	BORE HOLE 14.SSF	131718.587	
722185.265	4294233.279	5768	08-Jun-15	BORE HOLE 14.SSF	132173.315	
722176.581	4294216.519	5772	08-Jun-15	BORE HOLE 14.SSF	131909.416	
722172.363	4294211.127	5777	08-Jun-15	BORE HOLE 14.SSF	131922.533	
722182.815	4294224.509	5780	08-Jun-15	BORE HOLE 14.SSF	131893.402	
722180.1	4294221.414	5789	08-Jun-15	BORE HOLE 14.SSF	131899.414	
722190.165	4294240.56	5790	08-Jun-15	BORE HOLE 14.SSF	131676.479	
722187.549	4294234.536	5790	08-Jun-15	BORE HOLE 14.SSF	132097.211	
722183.701	4294234.137	5802	08-Jun-15	BORE HOLE 14.SSF	131843.368	
722173.504	4294217.165	5804	08-Jun-15	BORE HOLE 14.SSF	131953.311	

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722179.476	4294226.812	5804	08-Jun-15	BORE HOLE 14.SSF	132282.312	
722172.887	4294211.552	5806	08-Jun-15	BORE HOLE 14.SSF	131921.479	
722187.918	4294237.845	5809	08-Jun-15	BORE HOLE 14.SSF	131854.464	
722187.813	4294229.278	5815	08-Jun-15	BORE HOLE 14.SSF	131726.368	
722179.512	4294221.588	5847	08-Jun-15	BORE HOLE 14.SSF	132351.343	
722185.892	4294233.498	5854	08-Jun-15	BORE HOLE 14.SSF	132249.311	
722187.132	4294227.444	5867	08-Jun-15	BORE HOLE 14.SSF	131732.561	
722187.44	4294228.245	5871	08-Jun-15	BORE HOLE 14.SSF	131730.445	
722175.523	4294214.807	5872	08-Jun-15	BORE HOLE 14.SSF	131914.476	
722178.627	4294228.348	5905	08-Jun-15	BORE HOLE 14.SSF	131827.421	
722171.368	4294215.465	5922	08-Jun-15	BORE HOLE 14.SSF	131592.633	
722171.212	4294215.132	5929	08-Jun-15	BORE HOLE 14.SSF	131591.551	
722187.406	4294237.219	5936	08-Jun-15	BORE HOLE 14.SSF	131852.609	
722180.957	4294231.82	5951	08-Jun-15	BORE HOLE 14.SSF	131836.538	
722186.954	4294227.035	5955	08-Jun-15	BORE HOLE 14.SSF	131733.52	
722183.489	4294234.189	5962	08-Jun-15	BORE HOLE 14.SSF	131657.527	
722184.184	4294226.065	5962	08-Jun-15	BORE HOLE 14.SSF	131890.457	
722185.988	4294234.317	5967	08-Jun-15	BORE HOLE 14.SSF	132175.395	
722187.316	4294234.412	5979	08-Jun-15	BORE HOLE 14.SSF	132247.211	
722188.037	4294234.907	5982	08-Jun-15	BORE HOLE 14.SSF	132093.467	
722187.895	4294238.478	5990	08-Jun-15	BORE HOLE 14.SSF	131670.63	
722187.621	4294236.397	5994	08-Jun-15	BORE HOLE 14.SSF	131998.378	
722188.305	4294233.073	6000	08-Jun-15	BORE HOLE 14.SSF	131877.314	
722187.472	4294238.013	6022	08-Jun-15	BORE HOLE 14.SSF	131669.506	
722190.591	4294240.142	6045	08-Jun-15	BORE HOLE 14.SSF	131861.391	
722186.29	4294234.785	6056	08-Jun-15	BORE HOLE 14.SSF	132176.36	
722190.539	4294235.422	6087	08-Jun-15	BORE HOLE 14.SSF	131696.492	
722187.656	4294228.893	6104	08-Jun-15	BORE HOLE 14.SSF	131728.554	
722177.511	4294214.433	6106	08-Jun-15	BORE HOLE 14.SSF	131761.508	
722189.618	4294236.654	6107	08-Jun-15	BORE HOLE 14.SSF	132088.228	
722187.837	4294235.043	6124	08-Jun-15	BORE HOLE 14.SSF	132184.532	
722187.227	4294236.182	6125	08-Jun-15	BORE HOLE 14.SSF	132083.226	
722187.67	4294234.697	6125	08-Jun-15	BORE HOLE 14.SSF	132094.636	
722186.786	4294236.504	6129	08-Jun-15	BORE HOLE 14.SSF	131850.558	
722172.926	4294209.991	6138	08-Jun-15	BORE HOLE 14.SSF	131770.328	
722183.745	4294225.571	6143	08-Jun-15	BORE HOLE 14.SSF	131891.398	
722183.919	4294223.805	6151	08-Jun-15	BORE HOLE 14.SSF	131743.493	
722186.083	4294233.16	6154	08-Jun-15	BORE HOLE 14.SSF	132114.393	
722187.775	4294229.146	6158	08-Jun-15	BORE HOLE 14.SSF	131727.397	
722182.738	4294233.094	6159	08-Jun-15	BORE HOLE 14.SSF	131840.406	
722178.536	4294228.973	6167	08-Jun-15	BORE HOLE 14.SSF	131643.516	
722187.3	4294227.886	6167	08-Jun-15	BORE HOLE 14.SSF	131731.503	
722191.141	4294240.598	6167	08-Jun-15	BORE HOLE 14.SSF	131862.61	
722190.471	4294237.405	6181	08-Jun-15	BORE HOLE 14.SSF	131870.615	
722187.784	4294229.391	6187	08-Jun-15	BORE HOLE 14.SSF	131725.461	
722188.785	4294236.666	6187	08-Jun-15	BORE HOLE 14.SSF	132086.465	
722187.535	4294234.551	6191	08-Jun-15	BORE HOLE 14.SSF	132098.341	

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722174.901	4294213.89	6206	08-Jun-15	BORE HOLE 14.SSF	131916.481	
722189.632	4294235.834	6207	08-Jun-15	BORE HOLE 14.SSF	132090.457	
722187.6	4294237.496	6211	08-Jun-15	BORE HOLE 14.SSF	131853.384	
722179.58	4294230.553	6223	08-Jun-15	BORE HOLE 14.SSF	131647.599	
722190.099	4294234.432	6230	08-Jun-15	BORE HOLE 14.SSF	131698.488	
722174.945	4294211.912	6247	08-Jun-15	BORE HOLE 14.SSF	131766.356	
722186.788	4294233.666	6268	08-Jun-15	BORE HOLE 14.SSF	132187.309	
722170.618	4294213.464	6269	08-Jun-15	BORE HOLE 14.SSF	131779.469	
722178.723	4294229.366	6281	08-Jun-15	BORE HOLE 14.SSF	131644.505	
722172.303	4294213.727	6281	08-Jun-15	BORE HOLE 14.SSF	131928.473	
722189.204	4294236.636	6287	08-Jun-15	BORE HOLE 14.SSF	132087.341	
722186.638	4294233.936	6292	08-Jun-15	BORE HOLE 14.SSF	132248.238	
722188.636	4294239.111	6293	08-Jun-15	BORE HOLE 14.SSF	131672.331	
722191.443	4294240.835	6311	08-Jun-15	BORE HOLE 14.SSF	131863.394	
722171.845	4294211.036	6336	08-Jun-15	BORE HOLE 14.SSF	131923.456	
722179.246	4294230.118	6355	08-Jun-15	BORE HOLE 14.SSF	131646.488	
722179.866	4294230.877	6368	08-Jun-15	BORE HOLE 14.SSF	131648.493	
722190.539	4294240.923	6377	08-Jun-15	BORE HOLE 14.SSF	131677.321	
722183.415	4294233.84	6392	08-Jun-15	BORE HOLE 14.SSF	131842.602	
722188.445	4294235.895	6395	08-Jun-15	BORE HOLE 14.SSF	132005.474	
722188.554	4294238.436	6405	08-Jun-15	BORE HOLE 14.SSF	131856.361	
722188.566	4294235.231	6410	08-Jun-15	BORE HOLE 14.SSF	132092.365	
722186.791	4294226.589	6418	08-Jun-15	BORE HOLE 14.SSF	131734.591	
722190.362	4294234.958	6442	08-Jun-15	BORE HOLE 14.SSF	131697.345	
722177.031	4294213.88	6446	08-Jun-15	BORE HOLE 14.SSF	131762.649	
722189.787	4294235.636	6446	08-Jun-15	BORE HOLE 14.SSF	131873.286	
722187.179	4294234.231	6472	08-Jun-15	BORE HOLE 14.SSF	132186.203	
722182.746	4294233.542	6486	08-Jun-15	BORE HOLE 14.SSF	131655.598	
722183.072	4294233.438	6490	08-Jun-15	BORE HOLE 14.SSF	131841.517	
722193.164	4294242.264	6498	08-Jun-15	BORE HOLE 14.SSF	131684.514	
722172.065	4294209.445	6503	08-Jun-15	BORE HOLE 14.SSF	131772.327	
722172.558	4294214.148	6520	08-Jun-15	BORE HOLE 14.SSF	131929.307	
722188.08	4294236.956	6538	08-Jun-15	BORE HOLE 14.SSF	131999.44	
722192.977	4294241.669	6544	08-Jun-15	BORE HOLE 14.SSF	131685.449	
722190.296	4294236.868	6547	08-Jun-15	BORE HOLE 14.SSF	131871.455	
722183.391	4294222.212	6550	08-Jun-15	BORE HOLE 14.SSF	131746.501	
722187.512	4294234.621	6571	08-Jun-15	BORE HOLE 14.SSF	132185.339	
722192.823	4294240.957	6586	08-Jun-15	BORE HOLE 14.SSF	131686.606	
722170.503	4294212.769	6597	08-Jun-15	BORE HOLE 14.SSF	131778.545	
722176.081	4294213.022	6598	08-Jun-15	BORE HOLE 14.SSF	131764.38	
722189.801	4294240.189	6602	08-Jun-15	BORE HOLE 14.SSF	131675.427	
722191.925	4294241.989	6609	08-Jun-15	BORE HOLE 14.SSF	131680.473	
722178.377	4294215.36	6613	08-Jun-15	BORE HOLE 14.SSF	131759.397	
722180.777	4294232.002	6624	08-Jun-15	BORE HOLE 14.SSF	131651.496	
722180.252	4294231.324	6632	08-Jun-15	BORE HOLE 14.SSF	131649.679	
722191.125	4294241.409	6634	08-Jun-15	BORE HOLE 14.SSF	131678.504	
722182.427	4294232.802	6638	08-Jun-15	BORE HOLE 14.SSF	131839.541	

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722190.659	4294238.33	6642	08-Jun-15	BORE HOLE 14.SSF	131869.305	
722171.288	4294209.584	6666	08-Jun-15	BORE HOLE 14.SSF	131773.503	
722193.167	4294242.631	6673	08-Jun-15	BORE HOLE 14.SSF	131683.6	
722183.166	4294233.928	6691	08-Jun-15	BORE HOLE 14.SSF	131656.756	
722180.497	4294231.656	6698	08-Jun-15	BORE HOLE 14.SSF	131650.63	
722182.563	4294220.738	6702	08-Jun-15	BORE HOLE 14.SSF	131749.291	
722186.02	4294224.757	6705	08-Jun-15	BORE HOLE 14.SSF	131739.393	
722188.834	4294238.752	6731	08-Jun-15	BORE HOLE 14.SSF	131857.471	
722181.905	4294232.434	6753	08-Jun-15	BORE HOLE 14.SSF	131838.393	
722173.831	4294210.81	6765	08-Jun-15	BORE HOLE 14.SSF	131768.481	
722191.281	4294237.586	6770	08-Jun-15	BORE HOLE 14.SSF	131692.478	
722192.695	4294242.553	6773	08-Jun-15	BORE HOLE 14.SSF	131682.532	
722188.3	4294236.874	6775	08-Jun-15	BORE HOLE 14.SSF	132181.228	
722192.664	4294240.385	6776	08-Jun-15	BORE HOLE 14.SSF	131687.537	
722174.398	4294211.38	6781	08-Jun-15	BORE HOLE 14.SSF	131767.362	
722188.205	4294238.123	6783	08-Jun-15	BORE HOLE 14.SSF	131855.323	
722173.269	4294210.327	6791	08-Jun-15	BORE HOLE 14.SSF	131769.59	
722187.407	4294234.468	6817	08-Jun-15	BORE HOLE 14.SSF	132111.499	
722187.587	4294234.612	6840	08-Jun-15	BORE HOLE 14.SSF	132096.285	
722184.464	4294224.046	6845	08-Jun-15	BORE HOLE 14.SSF	131742.593	
722179.923	4294217.437	6921	08-Jun-15	BORE HOLE 14.SSF	131755.349	
722191.92	4294238.722	6923	08-Jun-15	BORE HOLE 14.SSF	131690.557	
722171.84	4294212.464	6927	08-Jun-15	BORE HOLE 14.SSF	131926.46	
722189.014	4294236.501	6980	08-Jun-15	BORE HOLE 14.SSF	132004.379	
722188.056	4294235.056	6998	08-Jun-15	BORE HOLE 14.SSF	132006.584	
722191.87	4294240.926	7008	08-Jun-15	BORE HOLE 14.SSF	131864.424	
722191.63	4294238.286	7040	08-Jun-15	BORE HOLE 14.SSF	131691.345	
722171.471	4294211.301	7044	08-Jun-15	BORE HOLE 14.SSF	131924.34	
722188.218	4294238.801	7052	08-Jun-15	BORE HOLE 14.SSF	131671.369	
722192.196	4294239.306	7053	08-Jun-15	BORE HOLE 14.SSF	131689.481	
722181.745	4294232.819	7059	08-Jun-15	BORE HOLE 14.SSF	131653.451	
722190.018	4294236.204	7067	08-Jun-15	BORE HOLE 14.SSF	131872.481	
722178.749	4294215.812	7075	08-Jun-15	BORE HOLE 14.SSF	131758.369	
722189.531	4294239.406	7080	08-Jun-15	BORE HOLE 14.SSF	131859.4	
722189.501	4294239.889	7091	08-Jun-15	BORE HOLE 14.SSF	131674.589	
722187.562	4294234.633	7100	08-Jun-15	BORE HOLE 14.SSF	132108.593	
722187.571	4294234.624	7137	08-Jun-15	BORE HOLE 14.SSF	132100.464	
722183.15	4294221.735	7157	08-Jun-15	BORE HOLE 14.SSF	131747.353	
722189.103	4294235.596	7162	08-Jun-15	BORE HOLE 14.SSF	132091.354	
722185.612	4294224.5	7166	08-Jun-15	BORE HOLE 14.SSF	131740.621	
722191.126	4294237.096	7182	08-Jun-15	BORE HOLE 14.SSF	131693.363	
722187.613	4294234.659	7201	08-Jun-15	BORE HOLE 14.SSF	132095.478	
722189.155	4294239.113	7203	08-Jun-15	BORE HOLE 14.SSF	131858.554	
722179.412	4294216.735	7250	08-Jun-15	BORE HOLE 14.SSF	131756.493	
722190.9	4294238.829	7250	08-Jun-15	BORE HOLE 14.SSF	131868.45	
722187.578	4294234.625	7278	08-Jun-15	BORE HOLE 14.SSF	132102.5	
722170.321	4294210.66	7279	08-Jun-15	BORE HOLE 14.SSF	131775.497	

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722191.208	4294239.327	7283	08-Jun-15	BORE HOLE 14.SSF	131867.508	
722176.632	4294213.516	7311	08-Jun-15	BORE HOLE 14.SSF	131763.414	
722171.562	4294211.865	7311	08-Jun-15	BORE HOLE 14.SSF	131925.445	
722181.291	4294232.133	7331	08-Jun-15	BORE HOLE 14.SSF	131837.34	
722185.178	4294224.317	7341	08-Jun-15	BORE HOLE 14.SSF	131741.499	
722187.484	4294234.648	7351	08-Jun-15	BORE HOLE 14.SSF	132110.253	
722186.265	4294225.114	7381	08-Jun-15	BORE HOLE 14.SSF	131738.473	
722187.568	4294234.641	7400	08-Jun-15	BORE HOLE 14.SSF	132107.245	
722189.656	4294237.588	7403	08-Jun-15	BORE HOLE 14.SSF	132002.488	
722181.838	4294219.691	7409	08-Jun-15	BORE HOLE 14.SSF	131751.35	
722192.204	4294242.171	7412	08-Jun-15	BORE HOLE 14.SSF	131681.337	
722179.083	4294216.243	7422	08-Jun-15	BORE HOLE 14.SSF	131757.347	
722187.545	4294234.637	7445	08-Jun-15	BORE HOLE 14.SSF	132109.197	
722183.596	4294222.881	7479	08-Jun-15	BORE HOLE 14.SSF	131745.436	
722190.04	4294239.768	7500	08-Jun-15	BORE HOLE 14.SSF	131860.368	
722172.434	4294209.526	7534	08-Jun-15	BORE HOLE 14.SSF	131771.607	
722187.571	4294234.599	7548	08-Jun-15	BORE HOLE 14.SSF	132099.447	
722190.74	4294235.943	7551	08-Jun-15	BORE HOLE 14.SSF	131695.59	
722182.176	4294220.233	7555	08-Jun-15	BORE HOLE 14.SSF	131750.377	
722188.721	4294233.61	7561	08-Jun-15	BORE HOLE 14.SSF	131876.346	
722189.05	4294234.158	7565	08-Jun-15	BORE HOLE 14.SSF	131875.351	
722192.419	4294239.811	7574	08-Jun-15	BORE HOLE 14.SSF	131688.567	
722189.393	4294234.83	7581	08-Jun-15	BORE HOLE 14.SSF	131874.365	
722175.497	4294212.468	7589	08-Jun-15	BORE HOLE 14.SSF	131765.372	
722191.547	4294241.733	7598	08-Jun-15	BORE HOLE 14.SSF	131679.421	
722181.29	4294219.07	7612	08-Jun-15	BORE HOLE 14.SSF	131752.493	
722187.564	4294234.63	7634	08-Jun-15	BORE HOLE 14.SSF	132101.332	
722178.997	4294229.794	7660	08-Jun-15	BORE HOLE 14.SSF	131645.645	
722186.669	4294226.227	7664	08-Jun-15	BORE HOLE 14.SSF	131735.457	
722186.439	4294225.569	7686	08-Jun-15	BORE HOLE 14.SSF	131737.342	
722183.648	4294223.39	7717	08-Jun-15	BORE HOLE 14.SSF	131744.555	
722182.81	4294221.153	7729	08-Jun-15	BORE HOLE 14.SSF	131748.45	
722187.581	4294228.632	7766	08-Jun-15	BORE HOLE 14.SSF	131729.345	
722189.015	4294237.8	7773	08-Jun-15	BORE HOLE 14.SSF	132001.275	
722187.572	4294234.625	7789	08-Jun-15	BORE HOLE 14.SSF	132104.353	
722181.315	4294232.509	7836	08-Jun-15	BORE HOLE 14.SSF	131652.62	
722170.636	4294210.145	7876	08-Jun-15	BORE HOLE 14.SSF	131774.608	
722187.573	4294234.631	7879	08-Jun-15	BORE HOLE 14.SSF	132103.421	
722180.891	4294218.609	7903	08-Jun-15	BORE HOLE 14.SSF	131753.311	
722170.333	4294211.785	7910	08-Jun-15	BORE HOLE 14.SSF	131777.221	
722192.053	4294240.793	7932	08-Jun-15	BORE HOLE 14.SSF	131865.168	
722189.684	4294236.993	8120	08-Jun-15	BORE HOLE 14.SSF	132003.298	
722190.949	4294236.572	8125	08-Jun-15	BORE HOLE 14.SSF	131694.402	
722180.334	4294217.956	8125	08-Jun-15	BORE HOLE 14.SSF	131754.443	
722188.583	4294237.468	8174	08-Jun-15	BORE HOLE 14.SSF	132000.491	
722188.297	4294236.705	8190	08-Jun-15	BORE HOLE 14.SSF	132085.339	
722170.247	4294211.221	8359	08-Jun-15	BORE HOLE 14.SSF	131776.429	

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722187.577	4294234.62	8367	08-Jun-15	BORE HOLE 14.SSF	132105.462	
722189.029	4294239.48	8443	08-Jun-15	BORE HOLE 14.SSF	131673.475	
722182.277	4294233.194	8664	08-Jun-15	BORE HOLE 14.SSF	131654.6	
722191.574	4294239.874	8733	08-Jun-15	BORE HOLE 14.SSF	131866.539	
722186.538	4294225.852	8786	08-Jun-15	BORE HOLE 14.SSF	131736.464	
722187.574	4294234.63	9082	08-Jun-15	BORE HOLE 14.SSF	132106.328	
722008.526	4294261.943	3791	10-Jun-15	BORE HOLE 17 0610201	334836.961	
722008.525	4294261.984	3699	10-Jun-15	BORE HOLE 17 0610201	334837.867	
722008.505	4294262.084	3982	10-Jun-15	BORE HOLE 17 0610201	334838.725	
722008.599	4294262.245	3775	10-Jun-15	BORE HOLE 17 0610201	334839.865	
722008.802	4294262.708	3732	10-Jun-15	BORE HOLE 17 0610201	334840.911	
722020.685	4294256.672	3863	10-Jun-15	BORE HOLE 17 0610201	334945.828	
722022.136	4294255.726	3941	10-Jun-15	BORE HOLE 17 0610201	334948.091	
722020.068	4294256.005	4007	10-Jun-15	BORE HOLE 17 0610201	334956.692	
722009.12	4294263.414	4065	10-Jun-15	BORE HOLE 17 0610201	334842.719	
722012.494	4294259.637	4077	10-Jun-15	BORE HOLE 17 0610201	334970.799	
722021.599	4294255.147	4115	10-Jun-15	BORE HOLE 17 0610201	334953.844	
722008.202	4294260.007	4119	10-Jun-15	BORE HOLE 17 0610201	335101.878	
722021.142	4294255.413	4122	10-Jun-15	BORE HOLE 17 0610201	334954.694	
722009.725	4294260.487	4128	10-Jun-15	BORE HOLE 17 0610201	334982.857	
722013.988	4294260.878	4135	10-Jun-15	BORE HOLE 17 0610201	334910.037	
722008.924	4294263.215	4147	10-Jun-15	BORE HOLE 17 0610201	334841.947	
722020.511	4294255.819	4156	10-Jun-15	BORE HOLE 17 0610201	334955.861	
722021.855	4294253.931	4158	10-Jun-15	BORE HOLE 17 0610201	335042.005	
722018.213	4294255.609	4159	10-Jun-15	BORE HOLE 17 0610201	335058.652	
722012.821	4294259.081	4162	10-Jun-15	BORE HOLE 17 0610201	335087.739	
722019.219	4294255.441	4166	10-Jun-15	BORE HOLE 17 0610201	335037.736	
722021.426	4294256.249	4179	10-Jun-15	BORE HOLE 17 0610201	334946.911	
722015.17	4294260.596	4200	10-Jun-15	BORE HOLE 17 0610201	334870.838	
722007.575	4294264.609	4204	10-Jun-15	BORE HOLE 17 0610201	334770.902	
722007.555	4294264.649	4222	10-Jun-15	BORE HOLE 17 0610201	334772.887	
722013.754	4294258.843	4233	10-Jun-15	BORE HOLE 17 0610201	335014.622	
722014.962	4294260.223	4256	10-Jun-15	BORE HOLE 17 0610201	334907.895	
722007.958	4294260.741	4256	10-Jun-15	BORE HOLE 17 0610201	335100.844	
722019.034	4294256.543	4272	10-Jun-15	BORE HOLE 17 0610201	334958.714	
722019.528	4294256.309	4275	10-Jun-15	BORE HOLE 17 0610201	334957.848	
722018.541	4294255.358	4275	10-Jun-15	BORE HOLE 17 0610201	335057.877	
722013.103	4294259.357	4276	10-Jun-15	BORE HOLE 17 0610201	334969.732	
722012.606	4294260.48	4289	10-Jun-15	BORE HOLE 17 0610201	334930.678	
722012.734	4294259.013	4293	10-Jun-15	BORE HOLE 17 0610201	335086.783	
722008.267	4294261.339	4294	10-Jun-15	BORE HOLE 17 0610201	334978.981	
722012.613	4294259.42	4302	10-Jun-15	BORE HOLE 17 0610201	335090.103	
722022.62	4294255.418	4306	10-Jun-15	BORE HOLE 17 0610201	334948.879	
722019.519	4294252.973	4307	10-Jun-15	BORE HOLE 17 0610201	335132.706	
722020.022	4294256.925	4308	10-Jun-15	BORE HOLE 17 0610201	334944.712	
722019.666	4294255.218	4323	10-Jun-15	BORE HOLE 17 0610201	335038.657	
722012.751	4294259.046	4323	10-Jun-15	BORE HOLE 17 0610201	335081.58	

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722012.877	4294259.151	4329	10-Jun-15	BORE HOLE 17 0610201	335088.896	
722012.741	4294259.085	4339	10-Jun-15	BORE HOLE 17 0610201	335080.809	
722009.238	4294262.376	4343	10-Jun-15	BORE HOLE 17 0610201	334923.102	
722021.131	4294254.457	4352	10-Jun-15	BORE HOLE 17 0610201	335040.924	
722018.758	4294255.656	4354	10-Jun-15	BORE HOLE 17 0610201	335036.752	
722009.568	4294262.178	4355	10-Jun-15	BORE HOLE 17 0610201	334923.962	
722014.81	4294258.127	4356	10-Jun-15	BORE HOLE 17 0610201	335010.102	
722012.624	4294259.132	4359	10-Jun-15	BORE HOLE 17 0610201	334988.985	
722009.023	4294262.795	4361	10-Jun-15	BORE HOLE 17 0610201	334921.851	
722009.125	4294258.997	4367	10-Jun-15	BORE HOLE 17 0610201	335103.631	
722022.916	4294254.315	4373	10-Jun-15	BORE HOLE 17 0610201	334950.819	
722012.721	4294259.141	4381	10-Jun-15	BORE HOLE 17 0610201	335077.711	
722019.481	4294258.552	4383	10-Jun-15	BORE HOLE 17 0610201	334878.829	
722019.431	4294253.39	4387	10-Jun-15	BORE HOLE 17 0610201	335122.093	
722013.53	4294258.243	4389	10-Jun-15	BORE HOLE 17 0610201	335016.994	
722020.599	4294257.209	4393	10-Jun-15	BORE HOLE 17 0610201	334895.844	
722011.784	4294262.091	4393	10-Jun-15	BORE HOLE 17 0610201	334914.833	
722015.478	4294259.91	4394	10-Jun-15	BORE HOLE 17 0610201	334906.657	
722022.137	4294253.624	4401	10-Jun-15	BORE HOLE 17 0610201	335042.663	
722013.889	4294258.132	4401	10-Jun-15	BORE HOLE 17 0610201	335068.64	
722019.781	4294252.669	4404	10-Jun-15	BORE HOLE 17 0610201	335131.929	
722013.962	4294258.585	4405	10-Jun-15	BORE HOLE 17 0610201	335001.031	
722015.685	4294260.387	4417	10-Jun-15	BORE HOLE 17 0610201	334871.976	
722014.343	4294258.174	4425	10-Jun-15	BORE HOLE 17 0610201	334998.891	
722014.591	4294260.756	4426	10-Jun-15	BORE HOLE 17 0610201	334868.907	
722012.731	4294259.134	4429	10-Jun-15	BORE HOLE 17 0610201	335078.976	
722014.288	4294258.406	4431	10-Jun-15	BORE HOLE 17 0610201	334999.942	
722014.807	4294256.234	4431	10-Jun-15	BORE HOLE 17 0610201	335143.79	
722008.256	4294261.173	4447	10-Jun-15	BORE HOLE 17 0610201	335099.806	
722008.401	4294260.957	4448	10-Jun-15	BORE HOLE 17 0610201	334979.849	
722009.606	4294263.606	4456	10-Jun-15	BORE HOLE 17 0610201	334846.115	
722016.449	4294259.957	4457	10-Jun-15	BORE HOLE 17 0610201	334873.787	
722008.651	4294261.387	4461	10-Jun-15	BORE HOLE 17 0610201	334977.856	
722010.835	4294260.509	4464	10-Jun-15	BORE HOLE 17 0610201	334973.999	
722014.609	4294260.768	4467	10-Jun-15	BORE HOLE 17 0610201	334860.94	
722009.285	4294263.549	4469	10-Jun-15	BORE HOLE 17 0610201	334843.887	
722013.96	4294258.992	4473	10-Jun-15	BORE HOLE 17 0610201	335013.801	
722013.601	4294256.555	4476	10-Jun-15	BORE HOLE 17 0610201	335111.852	
722014.897	4294258.181	4477	10-Jun-15	BORE HOLE 17 0610201	334995.749	
722007.566	4294264.631	4480	10-Jun-15	BORE HOLE 17 0610201	334772.088	
722015.452	4294257.358	4483	10-Jun-15	BORE HOLE 17 0610201	335030.809	
722008.507	4294259.52	4485	10-Jun-15	BORE HOLE 17 0610201	335102.618	
722021.875	4294257.372	4488	10-Jun-15	BORE HOLE 17 0610201	334883.844	
722012.02	4294259.857	4491	10-Jun-15	BORE HOLE 17 0610201	334971.624	
722019.229	4294257.923	4492	10-Jun-15	BORE HOLE 17 0610201	334898.63	
722021.177	4294252.248	4497	10-Jun-15	BORE HOLE 17 0610201	335126.037	
722021.381	4294257.594	4498	10-Jun-15	BORE HOLE 17 0610201	334882.715	

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722013.17	4294261.332	4500	10-Jun-15	BORE HOLE 17 0610201	334911.851	
722012.733	4294259.115	4501	10-Jun-15	BORE HOLE 17 0610201	335079.738	
722020.998	4294251.677	4501	10-Jun-15	BORE HOLE 17 0610201	335128.734	
722009.363	4294263.531	4509	10-Jun-15	BORE HOLE 17 0610201	334844.704	
722018.366	4294256.744	4510	10-Jun-15	BORE HOLE 17 0610201	334959.739	
722007.199	4294259.089	4511	10-Jun-15	BORE HOLE 17 0610201	335201.956	
722018.324	4294255.878	4514	10-Jun-15	BORE HOLE 17 0610201	335035.962	
722022.088	4294254.726	4516	10-Jun-15	BORE HOLE 17 0610201	334952.729	
722009.309	4294261.14	4518	10-Jun-15	BORE HOLE 17 0610201	334976.776	
722013.872	4294258.468	4518	10-Jun-15	BORE HOLE 17 0610201	334993.917	
722021.248	4294251.673	4522	10-Jun-15	BORE HOLE 17 0610201	335127.957	
722014.465	4294260.511	4524	10-Jun-15	BORE HOLE 17 0610201	334908.846	
722020.431	4294254.879	4524	10-Jun-15	BORE HOLE 17 0610201	335039.871	
722020.476	4294252.678	4528	10-Jun-15	BORE HOLE 17 0610201	335124.756	
722022.612	4294253.125	4530	10-Jun-15	BORE HOLE 17 0610201	335043.888	
722016.121	4294259.404	4532	10-Jun-15	BORE HOLE 17 0610201	334904.604	
722015.747	4294257.108	4532	10-Jun-15	BORE HOLE 17 0610201	335031.747	
722013.239	4294257.134	4532	10-Jun-15	BORE HOLE 17 0610201	335146.699	
722011.832	4294260.942	4537	10-Jun-15	BORE HOLE 17 0610201	334928.833	
722012.928	4294258.927	4544	10-Jun-15	BORE HOLE 17 0610201	334989.671	
722015.208	4294259.376	4546	10-Jun-15	BORE HOLE 17 0610201	334935.897	
722014.616	4294260.716	4558	10-Jun-15	BORE HOLE 17 0610201	334857.861	
722014.448	4294258.445	4559	10-Jun-15	BORE HOLE 17 0610201	334994.752	
722014.795	4294260.766	4560	10-Jun-15	BORE HOLE 17 0610201	334869.977	
722008.872	4294261.195	4560	10-Jun-15	BORE HOLE 17 0610201	335098.716	
722015.682	4294257.198	4563	10-Jun-15	BORE HOLE 17 0610201	335064.654	
722014.098	4294258.171	4567	10-Jun-15	BORE HOLE 17 0610201	335023.955	
722023.123	4294254.688	4575	10-Jun-15	BORE HOLE 17 0610201	334950.036	
722009.737	4294260.962	4578	10-Jun-15	BORE HOLE 17 0610201	334976.02	
722007.578	4294264.568	4581	10-Jun-15	BORE HOLE 17 0610201	334770.11	
722010.766	4294262.571	4588	10-Jun-15	BORE HOLE 17 0610201	334916.734	
722019.262	4294253.277	4590	10-Jun-15	BORE HOLE 17 0610201	335133.76	
722017.869	4294254.311	4596	10-Jun-15	BORE HOLE 17 0610201	335137.735	
722021.368	4294251.993	4599	10-Jun-15	BORE HOLE 17 0610201	335126.855	
722010.311	4294260.274	4601	10-Jun-15	BORE HOLE 17 0610201	334983.855	
722020.125	4294258.282	4603	10-Jun-15	BORE HOLE 17 0610201	334879.894	
722021.494	4294256.682	4603	10-Jun-15	BORE HOLE 17 0610201	334893.933	
722009.241	4294264.318	4608	10-Jun-15	BORE HOLE 17 0610201	334806.004	
722011.475	4294260.058	4612	10-Jun-15	BORE HOLE 17 0610201	335093.037	
722013.651	4294261.13	4613	10-Jun-15	BORE HOLE 17 0610201	334910.824	
722022.42	4294257.227	4624	10-Jun-15	BORE HOLE 17 0610201	334885.038	
722007.528	4294264.684	4625	10-Jun-15	BORE HOLE 17 0610201	334774.811	
722012.214	4294259.4	4629	10-Jun-15	BORE HOLE 17 0610201	334987.797	
722012.769	4294258.998	4629	10-Jun-15	BORE HOLE 17 0610201	335082.88	
722014.802	4294256.012	4632	10-Jun-15	BORE HOLE 17 0610201	335113.71	
722020.95	4294256.966	4637	10-Jun-15	BORE HOLE 17 0610201	334895.005	
722013.223	4294260.302	4648	10-Jun-15	BORE HOLE 17 0610201	334931.944	

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722020.95	4294253.628	4649	10-Jun-15	BORE HOLE 17 0610201	335052.781	
722019.631	4294253.174	4650	10-Jun-15	BORE HOLE 17 0610201	335122.852	
722013.655	4294258.605	4653	10-Jun-15	BORE HOLE 17 0610201	335001.859	
722010.8	4294261.534	4655	10-Jun-15	BORE HOLE 17 0610201	334926.702	
722013.39	4294258.673	4656	10-Jun-15	BORE HOLE 17 0610201	334990.915	
722013.736	4294258.446	4658	10-Jun-15	BORE HOLE 17 0610201	334992.693	
722016.309	4294256.831	4664	10-Jun-15	BORE HOLE 17 0610201	335032.756	
722015.545	4294255.874	4664	10-Jun-15	BORE HOLE 17 0610201	335142.56	
722012.704	4294259.168	4668	10-Jun-15	BORE HOLE 17 0610201	335076.843	
722017.581	4294257.039	4674	10-Jun-15	BORE HOLE 17 0610201	334960.887	
722016.127	4294258.796	4682	10-Jun-15	BORE HOLE 17 0610201	334937.713	
722019.057	4294253.456	4682	10-Jun-15	BORE HOLE 17 0610201	335134.555	
722013.502	4294258.622	4683	10-Jun-15	BORE HOLE 17 0610201	335015.758	
722009.911	4294261.932	4685	10-Jun-15	BORE HOLE 17 0610201	334924.698	
722014.503	4294260.824	4691	10-Jun-15	BORE HOLE 17 0610201	334856.86	
722012.004	4294259.841	4692	10-Jun-15	BORE HOLE 17 0610201	335091.925	
722017.853	4294254.403	4692	10-Jun-15	BORE HOLE 17 0610201	335118.694	
722020.005	4294254.312	4695	10-Jun-15	BORE HOLE 17 0610201	335054.96	
722009.305	4294264.349	4698	10-Jun-15	BORE HOLE 17 0610201	334804.675	
722009.3	4294263.08	4703	10-Jun-15	BORE HOLE 17 0610201	334919.958	
722016.222	4294255.265	4703	10-Jun-15	BORE HOLE 17 0610201	335116.036	
722019.618	4294257.778	4706	10-Jun-15	BORE HOLE 17 0610201	334897.972	
722012.785	4294257.46	4709	10-Jun-15	BORE HOLE 17 0610201	335147.849	
722014.885	4294258.469	4710	10-Jun-15	BORE HOLE 17 0610201	334966.002	
722012.429	4294259.674	4715	10-Jun-15	BORE HOLE 17 0610201	335090.871	
722018.056	4294259.324	4716	10-Jun-15	BORE HOLE 17 0610201	334876.112	
722013.46	4294258.532	4717	10-Jun-15	BORE HOLE 17 0610201	335002.724	
722020.588	4294258.066	4719	10-Jun-15	BORE HOLE 17 0610201	334880.772	
722014.428	4294257.997	4720	10-Jun-15	BORE HOLE 17 0610201	334998.079	
722020.335	4294252.152	4723	10-Jun-15	BORE HOLE 17 0610201	335130.514	
722012.726	4294259.214	4730	10-Jun-15	BORE HOLE 17 0610201	335073.804	
722017.417	4294258.013	4734	10-Jun-15	BORE HOLE 17 0610201	334940.034	
722017.369	4294256.21	4734	10-Jun-15	BORE HOLE 17 0610201	335060.654	
722015.469	4294255.613	4735	10-Jun-15	BORE HOLE 17 0610201	335114.799	
722019.007	4294258.765	4739	10-Jun-15	BORE HOLE 17 0610201	334878.036	
722019.462	4294254.679	4741	10-Jun-15	BORE HOLE 17 0610201	335056.039	
722011.244	4294262.346	4743	10-Jun-15	BORE HOLE 17 0610201	334915.847	
722015.174	4294257.658	4744	10-Jun-15	BORE HOLE 17 0610201	335029.767	
722017.809	4294257.838	4748	10-Jun-15	BORE HOLE 17 0610201	334940.819	
722013.339	4294258.574	4755	10-Jun-15	BORE HOLE 17 0610201	335069.9	
722023.56	4294255.336	4759	10-Jun-15	BORE HOLE 17 0610201	334888.725	
722014.623	4294260.8	4761	10-Jun-15	BORE HOLE 17 0610201	334858.994	
722022.461	4294254.383	4762	10-Jun-15	BORE HOLE 17 0610201	334951.794	
722009.354	4294260.567	4765	10-Jun-15	BORE HOLE 17 0610201	334982.099	
722014.124	4294256.33	4768	10-Jun-15	BORE HOLE 17 0610201	335112.652	
722011.354	4294260.221	4776	10-Jun-15	BORE HOLE 17 0610201	334972.938	
722017.699	4294255.985	4777	10-Jun-15	BORE HOLE 17 0610201	335059.919	

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722014.68	4294258.481	4783	10-Jun-15	BORE HOLE 17 0610201	335010.858	
722014.833	4294257.691	4784	10-Jun-15	BORE HOLE 17 0610201	335009	
722012.749	4294259.005	4785	10-Jun-15	BORE HOLE 17 0610201	335084.688	
722009.778	4294258.561	4789	10-Jun-15	BORE HOLE 17 0610201	335104.629	
722012.697	4294259.246	4790	10-Jun-15	BORE HOLE 17 0610201	335074.559	
722014.211	4294258.935	4791	10-Jun-15	BORE HOLE 17 0610201	335012.858	
722012.178	4294261.875	4797	10-Jun-15	BORE HOLE 17 0610201	334914.04	
722013.963	4294257.421	4797	10-Jun-15	BORE HOLE 17 0610201	335006.766	
722014.218	4294257.897	4797	10-Jun-15	BORE HOLE 17 0610201	335067.76	
722022.958	4294252.468	4800	10-Jun-15	BORE HOLE 17 0610201	335048.042	
722010.47	4294260.693	4806	10-Jun-15	BORE HOLE 17 0610201	334974.673	
722014.613	4294260.777	4808	10-Jun-15	BORE HOLE 17 0610201	334859.796	
722018.225	4294254.026	4811	10-Jun-15	BORE HOLE 17 0610201	335136.716	
722017.539	4294256.353	4812	10-Jun-15	BORE HOLE 17 0610201	335034.609	
722007.521	4294264.699	4814	10-Jun-15	BORE HOLE 17 0610201	334775.926	
722016.758	4294258.413	4816	10-Jun-15	BORE HOLE 17 0610201	334938.843	
722016.429	4294255.267	4819	10-Jun-15	BORE HOLE 17 0610201	335140.709	
722017.012	4294258.994	4825	10-Jun-15	BORE HOLE 17 0610201	334902.851	
722009.222	4294264.257	4841	10-Jun-15	BORE HOLE 17 0610201	334806.8	
722012.686	4294261.595	4848	10-Jun-15	BORE HOLE 17 0610201	334912.968	
722007.543	4294264.665	4850	10-Jun-15	BORE HOLE 17 0610201	334773.928	
722009.662	4294262.925	4855	10-Jun-15	BORE HOLE 17 0610201	334918.891	
722016.006	4294257.027	4858	10-Jun-15	BORE HOLE 17 0610201	335063.865	
722013.621	4294257.497	4862	10-Jun-15	BORE HOLE 17 0610201	335005.872	
722011.192	4294260.146	4866	10-Jun-15	BORE HOLE 17 0610201	335093.815	
722014.595	4294260.748	4869	10-Jun-15	BORE HOLE 17 0610201	334868.106	
722009.068	4294263.14	4873	10-Jun-15	BORE HOLE 17 0610201	334920.793	
722015.936	4294255.637	4878	10-Jun-15	BORE HOLE 17 0610201	335141.822	
722009.343	4294260.987	4880	10-Jun-15	BORE HOLE 17 0610201	335097.855	
722010.824	4294260.053	4883	10-Jun-15	BORE HOLE 17 0610201	334984.8	
722015.968	4294260.17	4884	10-Jun-15	BORE HOLE 17 0610201	334872.696	
722019.473	4294257.127	4885	10-Jun-15	BORE HOLE 17 0610201	334943.843	
722017.024	4294256.572	4888	10-Jun-15	BORE HOLE 17 0610201	335033.809	
722014.38	4294258.672	4892	10-Jun-15	BORE HOLE 17 0610201	334966.866	
722014.232	4294256.492	4892	10-Jun-15	BORE HOLE 17 0610201	335144.766	
722014.147	4294258.013	4896	10-Jun-15	BORE HOLE 17 0610201	335025.708	
722013.68	4294256.77	4897	10-Jun-15	BORE HOLE 17 0610201	335145.691	
722010.065	4294262.794	4898	10-Jun-15	BORE HOLE 17 0610201	334918.094	
722017.44	4294258.891	4910	10-Jun-15	BORE HOLE 17 0610201	334902.09	
722018.465	4294253.819	4913	10-Jun-15	BORE HOLE 17 0610201	335135.874	
722009.941	4294263.517	4914	10-Jun-15	BORE HOLE 17 0610201	334846.896	
722023.664	4294255.762	4914	10-Jun-15	BORE HOLE 17 0610201	334887.884	
722016.888	4294256.502	4920	10-Jun-15	BORE HOLE 17 0610201	335061.746	
722008.81	4294260.711	4924	10-Jun-15	BORE HOLE 17 0610201	334980.792	
722009.496	4294259.057	4925	10-Jun-15	BORE HOLE 17 0610201	335153.683	
722014.601	4294257.699	4928	10-Jun-15	BORE HOLE 17 0610201	335066.707	
722010.485	4294261.703	4930	10-Jun-15	BORE HOLE 17 0610201	334925.938	

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722021.949	4294256.415	4944	10-Jun-15	BORE HOLE 17 0610201	334892.843	
722016.416	4294256.779	4957	10-Jun-15	BORE HOLE 17 0610201	335062.857	
722013.987	4294258.396	4960	10-Jun-15	BORE HOLE 17 0610201	335022.867	
722018.41	4294250.556	4963	10-Jun-15	BORE HOLE 17 0610201	335225.792	
722015.588	4294259.142	4964	10-Jun-15	BORE HOLE 17 0610201	334936.714	
722016.531	4294257.533	4964	10-Jun-15	BORE HOLE 17 0610201	334962.807	
722014.23	4294260.976	4965	10-Jun-15	BORE HOLE 17 0610201	334856.091	
722021.37	4294253.285	4971	10-Jun-15	BORE HOLE 17 0610201	335052.016	
722015.767	4294259.725	4972	10-Jun-15	BORE HOLE 17 0610201	334905.868	
722013.075	4294256.784	4972	10-Jun-15	BORE HOLE 17 0610201	335110.738	
722013.934	4294258.585	4976	10-Jun-15	BORE HOLE 17 0610201	335020.857	
722007.82	4294259.731	4984	10-Jun-15	BORE HOLE 17 0610201	335156.698	
722014.526	4294258.835	4985	10-Jun-15	BORE HOLE 17 0610201	335011.881	
722014.336	4294257.434	4986	10-Jun-15	BORE HOLE 17 0610201	335007.658	
722015.037	4294257.515	4989	10-Jun-15	BORE HOLE 17 0610201	335065.863	
722016.794	4294255.031	4993	10-Jun-15	BORE HOLE 17 0610201	335116.866	
722020.626	4294251.919	4996	10-Jun-15	BORE HOLE 17 0610201	335129.747	
722020.181	4294257.436	5006	10-Jun-15	BORE HOLE 17 0610201	334896.713	
722012.262	4294260.643	5012	10-Jun-15	BORE HOLE 17 0610201	334929.903	
722020.506	4294253.958	5015	10-Jun-15	BORE HOLE 17 0610201	335053.745	
722012.68	4294259.239	5020	10-Jun-15	BORE HOLE 17 0610201	335075.479	
722021.013	4294257.764	5024	10-Jun-15	BORE HOLE 17 0610201	334881.841	
722018.884	4294255.056	5026	10-Jun-15	BORE HOLE 17 0610201	335057.039	
722016.117	4294257.863	5027	10-Jun-15	BORE HOLE 17 0610201	334963.845	
722014.842	4294257.872	5045	10-Jun-15	BORE HOLE 17 0610201	334997.004	
722013.9	4294258.406	5046	10-Jun-15	BORE HOLE 17 0610201	335019.89	
722012.742	4294259.01	5046	10-Jun-15	BORE HOLE 17 0610201	335085.83	
722014.059	4294258.031	5051	10-Jun-15	BORE HOLE 17 0610201	335024.783	
722017.251	4294259.746	5065	10-Jun-15	BORE HOLE 17 0610201	334874.879	
722017.319	4294254.63	5075	10-Jun-15	BORE HOLE 17 0610201	335138.759	
722017.416	4294254.693	5088	10-Jun-15	BORE HOLE 17 0610201	335117.866	
722017.997	4294258.563	5090	10-Jun-15	BORE HOLE 17 0610201	334901.037	
722020.116	4294252.852	5090	10-Jun-15	BORE HOLE 17 0610201	335123.988	
722018.473	4294254.011	5092	10-Jun-15	BORE HOLE 17 0610201	335119.769	
722011.466	4294261.156	5094	10-Jun-15	BORE HOLE 17 0610201	334928.036	
722014.746	4294259.582	5095	10-Jun-15	BORE HOLE 17 0610201	334934.887	
722022.698	4294252.453	5100	10-Jun-15	BORE HOLE 17 0610201	335048.836	
722012.353	4294257.635	5101	10-Jun-15	BORE HOLE 17 0610201	335148.602	
722009.809	4294260.753	5102	10-Jun-15	BORE HOLE 17 0610201	335096.808	
722013.81	4294258.231	5105	10-Jun-15	BORE HOLE 17 0610201	335019.042	
722021.896	4294252.814	5118	10-Jun-15	BORE HOLE 17 0610201	335050.924	
722007.074	4294259.111	5122	10-Jun-15	BORE HOLE 17 0610201	335158.713	
722011.864	4294259.584	5123	10-Jun-15	BORE HOLE 17 0610201	334986.971	
722012.211	4294257.174	5123	10-Jun-15	BORE HOLE 17 0610201	335108.81	
722018.95	4294257.322	5125	10-Jun-15	BORE HOLE 17 0610201	334942.924	
722018.66	4294258.178	5129	10-Jun-15	BORE HOLE 17 0610201	334899.646	
722012.614	4294256.968	5132	10-Jun-15	BORE HOLE 17 0610201	335109.777	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722013.985	4294258.521	5139	10-Jun-15	BORE HOLE 17 0610201	335022.014	
722013.354	4294261.625	5140	10-Jun-15	BORE HOLE 17 0610201	334853.867	
722008.141	4294259.538	5141	10-Jun-15	BORE HOLE 17 0610201	335155.939	
722010.467	4294263.342	5156	10-Jun-15	BORE HOLE 17 0610201	334847.863	
722018.472	4294259.103	5158	10-Jun-15	BORE HOLE 17 0610201	334876.881	
722018.874	4294253.773	5159	10-Jun-15	BORE HOLE 17 0610201	335120.621	
722015.411	4294258.157	5160	10-Jun-15	BORE HOLE 17 0610201	334965.038	
722007.346	4294259.635	5173	10-Jun-15	BORE HOLE 17 0610201	335157.684	
722023.046	4294256.862	5181	10-Jun-15	BORE HOLE 17 0610201	334886.102	
722016.462	4294259.248	5204	10-Jun-15	BORE HOLE 17 0610201	334903.957	
722012.467	4294262.012	5208	10-Jun-15	BORE HOLE 17 0610201	334852.003	
722023.4	4294256.403	5217	10-Jun-15	BORE HOLE 17 0610201	334886.882	
722013.615	4294258.53	5229	10-Jun-15	BORE HOLE 17 0610201	334991.999	
722013.139	4294258.678	5232	10-Jun-15	BORE HOLE 17 0610201	335070.598	
722013.306	4294257.701	5243	10-Jun-15	BORE HOLE 17 0610201	335004.864	
722022.974	4294255.368	5272	10-Jun-15	BORE HOLE 17 0610201	334889.847	
722007.366	4294258.945	5272	10-Jun-15	BORE HOLE 17 0610201	335310.555	
722007.332	4294258.9	5279	10-Jun-15	BORE HOLE 17 0610201	335309.711	
722013.613	4294258.157	5289	10-Jun-15	BORE HOLE 17 0610201	335017.748	
722016.989	4294257.387	5292	10-Jun-15	BORE HOLE 17 0610201	334962.004	
722006.899	4294259.348	5299	10-Jun-15	BORE HOLE 17 0610201	335302.695	
722007.39	4294258.874	5312	10-Jun-15	BORE HOLE 17 0610201	335314.662	
722008.949	4294259.277	5313	10-Jun-15	BORE HOLE 17 0610201	335154.673	
722018.338	4294257.552	5325	10-Jun-15	BORE HOLE 17 0610201	334941.886	
722011.646	4294257.874	5337	10-Jun-15	BORE HOLE 17 0610201	335149.696	
722011.663	4294257.458	5349	10-Jun-15	BORE HOLE 17 0610201	335107.844	
722013.762	4294260.11	5351	10-Jun-15	BORE HOLE 17 0610201	334933.035	
722012.875	4294261.879	5352	10-Jun-15	BORE HOLE 17 0610201	334852.795	
722012.781	4294259.139	5356	10-Jun-15	BORE HOLE 17 0610201	335072.806	
722010.567	4294258.042	5364	10-Jun-15	BORE HOLE 17 0610201	335105.839	
722014.336	4294259.74	5365	10-Jun-15	BORE HOLE 17 0610201	334934.116	
722010.193	4294260.549	5365	10-Jun-15	BORE HOLE 17 0610201	335096.002	
722016.742	4294255.059	5367	10-Jun-15	BORE HOLE 17 0610201	335140.07	
722018.411	4294251.594	5373	10-Jun-15	BORE HOLE 17 0610201	335180.87	
722018.786	4294250.664	5397	10-Jun-15	BORE HOLE 17 0610201	335224.651	
722018.13	4294251.52	5415	10-Jun-15	BORE HOLE 17 0610201	335182.004	
722023.01	4294252.567	5416	10-Jun-15	BORE HOLE 17 0610201	335046.168	
722007.376	4294258.897	5417	10-Jun-15	BORE HOLE 17 0610201	335313.673	
722007.349	4294258.909	5430	10-Jun-15	BORE HOLE 17 0610201	335312.669	
722013.754	4294261.289	5441	10-Jun-15	BORE HOLE 17 0610201	334854.86	
722012.756	4294258.998	5454	10-Jun-15	BORE HOLE 17 0610201	335083.923	
722010.075	4294258.75	5462	10-Jun-15	BORE HOLE 17 0610201	335152.688	
722011.042	4294257.77	5469	10-Jun-15	BORE HOLE 17 0610201	335106.705	
722013.953	4294258.875	5474	10-Jun-15	BORE HOLE 17 0610201	334967.865	
722010.699	4294260.248	5497	10-Jun-15	BORE HOLE 17 0610201	335094.941	
722022.485	4294255.698	5500	10-Jun-15	BORE HOLE 17 0610201	334891.001	
722023.129	4294252.689	5506	10-Jun-15	BORE HOLE 17 0610201	335046.923	

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722022.299	4294252.588	5538	10-Jun-15	BORE HOLE 17 0610201	335049.853	
722013.267	4294258.038	5548	10-Jun-15	BORE HOLE 17 0610201	335004.092	
722013.615	4294259.062	5561	10-Jun-15	BORE HOLE 17 0610201	334968.616	
722006.977	4294258.618	5568	10-Jun-15	BORE HOLE 17 0610201	335202.692	
722011.298	4294259.838	5574	10-Jun-15	BORE HOLE 17 0610201	334985.762	
722012.931	4294258.884	5575	10-Jun-15	BORE HOLE 17 0610201	335071.598	
722007.392	4294258.837	5581	10-Jun-15	BORE HOLE 17 0610201	335316.827	
722014.823	4294257.995	5594	10-Jun-15	BORE HOLE 17 0610201	335028.736	
722012.003	4294262.377	5606	10-Jun-15	BORE HOLE 17 0610201	334850.99	
722007.357	4294258.931	5628	10-Jun-15	BORE HOLE 17 0610201	335311.682	
722007.384	4294258.86	5643	10-Jun-15	BORE HOLE 17 0610201	335315.744	
722007.423	4294258.782	5648	10-Jun-15	BORE HOLE 17 0610201	335319.943	
722017.899	4294250.817	5657	10-Jun-15	BORE HOLE 17 0610201	335226.842	
722010.501	4294258.51	5671	10-Jun-15	BORE HOLE 17 0610201	335151.888	
722007.245	4294258.916	5677	10-Jun-15	BORE HOLE 17 0610201	335306.659	
722005.628	4294259.493	5681	10-Jun-15	BORE HOLE 17 0610201	335298.642	
722011.094	4294263.027	5690	10-Jun-15	BORE HOLE 17 0610201	334849.036	
722011.455	4294262.742	5713	10-Jun-15	BORE HOLE 17 0610201	334849.844	
722022.852	4294252.833	5736	10-Jun-15	BORE HOLE 17 0610201	335044.871	
722007.409	4294258.828	5772	10-Jun-15	BORE HOLE 17 0610201	335317.697	
722017.541	4294252.526	5773	10-Jun-15	BORE HOLE 17 0610201	335183.805	
722014.243	4294258.108	5814	10-Jun-15	BORE HOLE 17 0610201	335026.608	
722007.089	4294259.044	5830	10-Jun-15	BORE HOLE 17 0610201	335303.815	
722018.58	4294251.934	5847	10-Jun-15	BORE HOLE 17 0610201	335179.848	
722007.297	4294258.877	5865	10-Jun-15	BORE HOLE 17 0610201	335308.681	
722011.008	4294258.206	5882	10-Jun-15	BORE HOLE 17 0610201	335150.775	
722007.253	4294258.904	5893	10-Jun-15	BORE HOLE 17 0610201	335307.741	
722017.017	4294253.091	5895	10-Jun-15	BORE HOLE 17 0610201	335184.855	
722007.421	4294258.813	5902	10-Jun-15	BORE HOLE 17 0610201	335318.566	
722014.59	4294258.221	5985	10-Jun-15	BORE HOLE 17 0610201	335027.92	
722007.172	4294258.917	6017	10-Jun-15	BORE HOLE 17 0610201	335304.63	
722009.732	4294257.714	6123	10-Jun-15	BORE HOLE 17 0610201	335196.877	
722017.94	4294251.98	6173	10-Jun-15	BORE HOLE 17 0610201	335182.801	
722005.79	4294259.718	6173	10-Jun-15	BORE HOLE 17 0610201	335299.76	
722007.797	4294259.074	6191	10-Jun-15	BORE HOLE 17 0610201	335200.697	
722016.331	4294253.69	6215	10-Jun-15	BORE HOLE 17 0610201	335186.041	
722007.667	4294258.102	6221	10-Jun-15	BORE HOLE 17 0610201	335160.568	
722006.592	4294259.492	6251	10-Jun-15	BORE HOLE 17 0610201	335301.864	
722007.327	4294258.481	6271	10-Jun-15	BORE HOLE 17 0610201	335159.801	
722008.199	4294258.86	6285	10-Jun-15	BORE HOLE 17 0610201	335199.893	
722015.251	4294254.469	6291	10-Jun-15	BORE HOLE 17 0610201	335187.868	
722017.343	4294251.261	6294	10-Jun-15	BORE HOLE 17 0610201	335227.712	
722022.329	4294256.019	6304	10-Jun-15	BORE HOLE 17 0610201	334891.699	
722010.343	4294257.394	6330	10-Jun-15	BORE HOLE 17 0610201	335195.764	
722009.258	4294258.032	6360	10-Jun-15	BORE HOLE 17 0610201	335197.797	
722016.936	4294252.958	6405	10-Jun-15	BORE HOLE 17 0610201	335176.645	
722007.221	4294258.685	6461	10-Jun-15	BORE HOLE 17 0610201	335245.92	

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722016.841	4294249.104	6535	10-Jun-15	BORE HOLE 17 0610201	335272.494	
722012.271	4294254.573	6545	10-Jun-15	BORE HOLE 17 0610201	335211.657	
722018.948	4294250.733	6552	10-Jun-15	BORE HOLE 17 0610201	335223.929	
722008.288	4294255.835	6564	10-Jun-15	BORE HOLE 17 0610201	335253.967	
722012.176	4294256.462	6593	10-Jun-15	BORE HOLE 17 0610201	335192.855	
722017.192	4294248.987	6700	10-Jun-15	BORE HOLE 17 0610201	335271.865	
722011.737	4294253.715	6730	10-Jun-15	BORE HOLE 17 0610201	335259.615	
722011.689	4294254.91	6742	10-Jun-15	BORE HOLE 17 0610201	335210.636	
722011.328	4294254.78	6770	10-Jun-15	BORE HOLE 17 0610201	335287.574	
722008.801	4294258.39	6780	10-Jun-15	BORE HOLE 17 0610201	335198.632	
722015.904	4294254.062	6804	10-Jun-15	BORE HOLE 17 0610201	335186.822	
722015.893	4294253.552	6841	10-Jun-15	BORE HOLE 17 0610201	335174.712	
722013.651	4294253.577	6855	10-Jun-15	BORE HOLE 17 0610201	335233.817	
722006.074	4294259.703	6883	10-Jun-15	BORE HOLE 17 0610201	335300.569	
722014.351	4294253.166	6901	10-Jun-15	BORE HOLE 17 0610201	335232.746	
722017.573	4294252.639	6911	10-Jun-15	BORE HOLE 17 0610201	335177.857	
722016.796	4294251.6	6913	10-Jun-15	BORE HOLE 17 0610201	335228.594	
722013.66	4294255.526	6932	10-Jun-15	BORE HOLE 17 0610201	335190.715	
722013.26	4294253.848	6963	10-Jun-15	BORE HOLE 17 0610201	335234.487	
722007.572	4294257.541	6997	10-Jun-15	BORE HOLE 17 0610201	335293.82	
722016.498	4294253.193	7020	10-Jun-15	BORE HOLE 17 0610201	335175.76	
722016.477	4294249.261	7053	10-Jun-15	BORE HOLE 17 0610201	335274.65	
722016.523	4294249.28	7093	10-Jun-15	BORE HOLE 17 0610201	335273.605	
722017.208	4294249.716	7109	10-Jun-15	BORE HOLE 17 0610201	335269.863	
722018.589	4294251.021	7131	10-Jun-15	BORE HOLE 17 0610201	335222.68	
722007.307	4294257.885	7143	10-Jun-15	BORE HOLE 17 0610201	335203.847	
722016.377	4294249.219	7193	10-Jun-15	BORE HOLE 17 0610201	335275.69	
722007.242	4294258.909	7221	10-Jun-15	BORE HOLE 17 0610201	335305.75	
722013.13	4294255.951	7223	10-Jun-15	BORE HOLE 17 0610201	335191.62	
722014.831	4294251.766	7237	10-Jun-15	BORE HOLE 17 0610201	335280.721	
722012.178	4294253.975	7280	10-Jun-15	BORE HOLE 17 0610201	335285.866	
722012.664	4294253.469	7282	10-Jun-15	BORE HOLE 17 0610201	335284.745	
722017.366	4294251.684	7296	10-Jun-15	BORE HOLE 17 0610201	335220.574	
722006.767	4294258.869	7315	10-Jun-15	BORE HOLE 17 0610201	335246.597	
722011.421	4294256.852	7318	10-Jun-15	BORE HOLE 17 0610201	335193.926	
722014.729	4294254.744	7362	10-Jun-15	BORE HOLE 17 0610201	335188.675	
722005.91	4294259.196	7364	10-Jun-15	BORE HOLE 17 0610201	335297.723	
722009.944	4294256.668	7380	10-Jun-15	BORE HOLE 17 0610201	335164.658	
722016.015	4294252.371	7391	10-Jun-15	BORE HOLE 17 0610201	335217.986	
722015.721	4294250.932	7392	10-Jun-15	BORE HOLE 17 0610201	335266.728	
722016.105	4294251.951	7398	10-Jun-15	BORE HOLE 17 0610201	335229.74	
722013.125	4294252.721	7410	10-Jun-15	BORE HOLE 17 0610201	335261.645	
722010.699	4294255.308	7422	10-Jun-15	BORE HOLE 17 0610201	335288.619	
722013.563	4294253.798	7429	10-Jun-15	BORE HOLE 17 0610201	335213.738	
722014.17	4294253.511	7437	10-Jun-15	BORE HOLE 17 0610201	335214.644	
722013.577	4294254.689	7444	10-Jun-15	BORE HOLE 17 0610201	335170.7	
722013.069	4294254.888	7457	10-Jun-15	BORE HOLE 17 0610201	335169.924	

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722015.388	4294251.216	7491	10-Jun-15	BORE HOLE 17 0610201	335265.91	
722005.713	4294258.66	7507	10-Jun-15	BORE HOLE 17 0610201	335248.532	
722014.806	4294251.58	7526	10-Jun-15	BORE HOLE 17 0610201	335264.685	
722014.411	4294251.808	7543	10-Jun-15	BORE HOLE 17 0610201	335263.892	
722018.082	4294252.344	7548	10-Jun-15	BORE HOLE 17 0610201	335178.756	
722015.403	4294253.837	7563	10-Jun-15	BORE HOLE 17 0610201	335173.917	
722008.826	4294257.215	7574	10-Jun-15	BORE HOLE 17 0610201	335162.851	
722013.717	4294252.198	7612	10-Jun-15	BORE HOLE 17 0610201	335262.654	
722017.44	4294249.371	7627	10-Jun-15	BORE HOLE 17 0610201	335270.598	
722007.605	4294256.48	7656	10-Jun-15	BORE HOLE 17 0610201	335252.741	
722010.012	4294255.929	7681	10-Jun-15	BORE HOLE 17 0610201	335207.953	
722009.206	4294256.436	7684	10-Jun-15	BORE HOLE 17 0610201	335206.737	
722008.531	4294256.886	7698	10-Jun-15	BORE HOLE 17 0610201	335205.687	
722015.341	4294251.311	7708	10-Jun-15	BORE HOLE 17 0610201	335279.829	
722006.036	4294258.886	7709	10-Jun-15	BORE HOLE 17 0610201	335247.679	
722014.832	4294253.162	7739	10-Jun-15	BORE HOLE 17 0610201	335215.736	
722012.663	4294254.357	7741	10-Jun-15	BORE HOLE 17 0610201	335235.851	
722012.418	4294255.193	7748	10-Jun-15	BORE HOLE 17 0610201	335168.843	
722007.184	4294257.875	7749	10-Jun-15	BORE HOLE 17 0610201	335294.647	
722013.044	4294254.086	7756	10-Jun-15	BORE HOLE 17 0610201	335212.917	
722011.08	4294255.2	7770	10-Jun-15	BORE HOLE 17 0610201	335209.723	
722010.994	4294257.063	7799	10-Jun-15	BORE HOLE 17 0610201	335194.707	
722013.588	4294252.629	7802	10-Jun-15	BORE HOLE 17 0610201	335282.729	
722014.831	4294252.815	7804	10-Jun-15	BORE HOLE 17 0610201	335231.956	
722014.151	4294252.16	7809	10-Jun-15	BORE HOLE 17 0610201	335281.75	
722008.728	4294255.563	7851	10-Jun-15	BORE HOLE 17 0610201	335254.718	
722006.324	4294258.87	7856	10-Jun-15	BORE HOLE 17 0610201	335296.769	
722010.549	4294256.391	7875	10-Jun-15	BORE HOLE 17 0610201	335165.673	
722018.058	4294251.318	7884	10-Jun-15	BORE HOLE 17 0610201	335221.684	
722016.303	4294252.239	7895	10-Jun-15	BORE HOLE 17 0610201	335218.604	
722016.149	4294250.099	7897	10-Jun-15	BORE HOLE 17 0610201	335277.682	
722006.752	4294258.367	7907	10-Jun-15	BORE HOLE 17 0610201	335295.661	
722016.287	4294250.406	7908	10-Jun-15	BORE HOLE 17 0610201	335267.905	
722012.43	4294253.221	7922	10-Jun-15	BORE HOLE 17 0610201	335260.687	
722014.87	4294254.177	7935	10-Jun-15	BORE HOLE 17 0610201	335172.861	
722011.103	4294256.066	7938	10-Jun-15	BORE HOLE 17 0610201	335166.86	
722009.418	4294255.237	7962	10-Jun-15	BORE HOLE 17 0610201	335255.811	
722011.61	4294255.135	7976	10-Jun-15	BORE HOLE 17 0610201	335237.904	
722010.764	4294256.05	8006	10-Jun-15	BORE HOLE 17 0610201	335239.638	
722014.186	4294255.082	8050	10-Jun-15	BORE HOLE 17 0610201	335189.622	
722015.502	4294252.303	8059	10-Jun-15	BORE HOLE 17 0610201	335230.844	
722012.169	4294254.693	8145	10-Jun-15	BORE HOLE 17 0610201	335236.735	
722015.76	4294250.675	8154	10-Jun-15	BORE HOLE 17 0610201	335278.662	
722016.621	4294250.119	8157	10-Jun-15	BORE HOLE 17 0610201	335268.76	
722016.881	4294251.958	8186	10-Jun-15	BORE HOLE 17 0610201	335219.706	
722009.045	4294257.463	8191	10-Jun-15	BORE HOLE 17 0610201	335242.693	
722011.164	4294254.123	8200	10-Jun-15	BORE HOLE 17 0610201	335258.633	

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722008.508	4294257.772	8227	10-Jun-15	BORE HOLE 17 0610201	335243.618	
722011.251	4294255.534	8264	10-Jun-15	BORE HOLE 17 0610201	335238.653	
722009.772	4294256.992	8285	10-Jun-15	BORE HOLE 17 0610201	335241.699	
722016.39	4294249.563	8308	10-Jun-15	BORE HOLE 17 0610201	335276.656	
722011.835	4294255.55	8314	10-Jun-15	BORE HOLE 17 0610201	335168.043	
722008.122	4294257.619	8335	10-Jun-15	BORE HOLE 17 0610201	335161.638	
722006.923	4294257.068	8423	10-Jun-15	BORE HOLE 17 0610201	335251.545	
722007.823	4294257.397	8475	10-Jun-15	BORE HOLE 17 0610201	335204.672	
722010.46	4294255.602	8520	10-Jun-15	BORE HOLE 17 0610201	335208.725	
722007.956	4294258.124	8567	10-Jun-15	BORE HOLE 17 0610201	335244.666	
722009.959	4294255.876	8605	10-Jun-15	BORE HOLE 17 0610201	335289.745	
722015.434	4294252.825	8685	10-Jun-15	BORE HOLE 17 0610201	335216.855	
722014.191	4294254.461	8701	10-Jun-15	BORE HOLE 17 0610201	335171.627	
722013.072	4294253.117	8730	10-Jun-15	BORE HOLE 17 0610201	335283.857	
722005.71	4294258.151	8776	10-Jun-15	BORE HOLE 17 0610201	335249.599	
722008.196	4294257.169	8789	10-Jun-15	BORE HOLE 17 0610201	335292.756	
722010.7	4294254.467	8800	10-Jun-15	BORE HOLE 17 0610201	335257.791	
722011.761	4294254.365	8840	10-Jun-15	BORE HOLE 17 0610201	335286.719	
722008.885	4294256.738	8877	10-Jun-15	BORE HOLE 17 0610201	335291.658	
722009.399	4294256.892	8883	10-Jun-15	BORE HOLE 17 0610201	335163.893	
722006.343	4294257.517	8974	10-Jun-15	BORE HOLE 17 0610201	335250.707	
722009.487	4294256.291	8991	10-Jun-15	BORE HOLE 17 0610201	335290.6	
722010.315	4294256.474	9141	10-Jun-15	BORE HOLE 17 0610201	335240.618	
722009.943	4294254.94	9160	10-Jun-15	BORE HOLE 17 0610201	335256.621	
722077.535	4294180.135	3843	15-Jun-15	BORE HOLE 18.SSF	136393.447	
722077.546	4294180.122	3902	15-Jun-15	BORE HOLE 18.SSF	136394.502	
722077.551	4294180.122	4003	15-Jun-15	BORE HOLE 18.SSF	136408.589	
722077.678	4294177.067	3834	15-Jun-15	BORE HOLE 18.SSF	136422.687	
722080.036	4294166.256	3787	15-Jun-15	BORE HOLE 18.SSF	136499.343	
722080.302	4294164.882	3847	15-Jun-15	BORE HOLE 18.SSF	136501.369	
722080.43	4294164.016	3878	15-Jun-15	BORE HOLE 18.SSF	136502.681	
722080.555	4294163.442	3894	15-Jun-15	BORE HOLE 18.SSF	136503.566	
722080.798	4294162.735	3784	15-Jun-15	BORE HOLE 18.SSF	136504.617	
722080.985	4294164.094	3948	15-Jun-15	BORE HOLE 18.SSF	136562.408	
722079.177	4294172.324	4067	15-Jun-15	BORE HOLE 18.SSF	136459.622	
722078.403	4294180.247	4069	15-Jun-15	BORE HOLE 18.SSF	136472.385	
722078.926	4294168.832	4073	15-Jun-15	BORE HOLE 18.SSF	136433.531	
722077.56	4294180.117	4077	15-Jun-15	BORE HOLE 18.SSF	136409.425	
722077.535	4294180.112	4085	15-Jun-15	BORE HOLE 18.SSF	136404.547	
722080.469	4294169.09	4099	15-Jun-15	BORE HOLE 18.SSF	136555.308	
722080.921	4294164.778	4102	15-Jun-15	BORE HOLE 18.SSF	136561.504	
722077.656	4294176.59	4106	15-Jun-15	BORE HOLE 18.SSF	136423.461	
722078.698	4294169.624	4108	15-Jun-15	BORE HOLE 18.SSF	136432.621	
722080.611	4294168.168	4112	15-Jun-15	BORE HOLE 18.SSF	136556.497	
722080.377	4294181.182	4125	15-Jun-15	BORE HOLE 18.SSF	136665.344	
722082.687	4294164.91	4129	15-Jun-15	BORE HOLE 18.SSF	136617.322	
722077.538	4294180.109	4136	15-Jun-15	BORE HOLE 18.SSF	136403.66	

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722079.968	4294168.914	4152	15-Jun-15	BORE HOLE 18.SSF	136454.538	
722080.857	4294165.467	4160	15-Jun-15	BORE HOLE 18.SSF	136560.587	
722079.09	4294168.123	4166	15-Jun-15	BORE HOLE 18.SSF	136434.411	
722080.277	4294181.232	4171	15-Jun-15	BORE HOLE 18.SSF	136669.374	
722080.311	4294181.259	4180	15-Jun-15	BORE HOLE 18.SSF	136666.448	
722077.846	4294174.578	4186	15-Jun-15	BORE HOLE 18.SSF	136426.458	
722079.965	4294166.622	4195	15-Jun-15	BORE HOLE 18.SSF	136498.727	
722078.012	4294173.645	4199	15-Jun-15	BORE HOLE 18.SSF	136427.541	
722080.197	4294165.478	4200	15-Jun-15	BORE HOLE 18.SSF	136500.546	
722080.387	4294169.651	4208	15-Jun-15	BORE HOLE 18.SSF	136554.582	
722080.522	4294171.448	4213	15-Jun-15	BORE HOLE 18.SSF	136525.528	
722080.212	4294168.106	4222	15-Jun-15	BORE HOLE 18.SSF	136453.463	
722078.525	4294170.473	4224	15-Jun-15	BORE HOLE 18.SSF	136431.593	
722077.22	4294180.028	4228	15-Jun-15	BORE HOLE 18.SSF	136412.466	
722079.805	4294167.569	4231	15-Jun-15	BORE HOLE 18.SSF	136497.366	
722080.244	4294181.223	4236	15-Jun-15	BORE HOLE 18.SSF	136670.282	
722081.198	4294162.886	4239	15-Jun-15	BORE HOLE 18.SSF	136564.308	
722082.672	4294163.506	4247	15-Jun-15	BORE HOLE 18.SSF	136619.47	
722079.167	4294167.529	4248	15-Jun-15	BORE HOLE 18.SSF	136435.277	
722078.243	4294180.033	4257	15-Jun-15	BORE HOLE 18.SSF	136477.587	
722082.641	4294164.136	4257	15-Jun-15	BORE HOLE 18.SSF	136618.55	
722080.916	4294163.91	4261	15-Jun-15	BORE HOLE 18.SSF	136447.45	
722078.416	4294171.242	4270	15-Jun-15	BORE HOLE 18.SSF	136430.537	
722080.218	4294181.223	4273	15-Jun-15	BORE HOLE 18.SSF	136671.359	
722077.543	4294180.108	4274	15-Jun-15	BORE HOLE 18.SSF	136402.567	
722081.051	4294163.43	4283	15-Jun-15	BORE HOLE 18.SSF	136563.415	
722082.699	4294162.944	4286	15-Jun-15	BORE HOLE 18.SSF	136620.356	
722077.509	4294180.088	4290	15-Jun-15	BORE HOLE 18.SSF	136411.381	
722082.756	4294162.271	4293	15-Jun-15	BORE HOLE 18.SSF	136621.385	
722078.207	4294172.635	4297	15-Jun-15	BORE HOLE 18.SSF	136428.617	
722082.159	4294168.055	4302	15-Jun-15	BORE HOLE 18.SSF	136612.417	
722080.442	4294167.421	4305	15-Jun-15	BORE HOLE 18.SSF	136452.559	
722080.733	4294170.635	4316	15-Jun-15	BORE HOLE 18.SSF	136524.457	
722080.919	4294169.698	4327	15-Jun-15	BORE HOLE 18.SSF	136523.334	
722077.578	4294180.112	4333	15-Jun-15	BORE HOLE 18.SSF	136410.59	
722077.653	4294177.861	4342	15-Jun-15	BORE HOLE 18.SSF	136421.499	
722078.246	4294180.128	4356	15-Jun-15	BORE HOLE 18.SSF	136476.544	
722078.313	4294179.793	4367	15-Jun-15	BORE HOLE 18.SSF	136478.778	
722082.715	4294165.441	4367	15-Jun-15	BORE HOLE 18.SSF	136616.433	
722081.835	4294168.92	4369	15-Jun-15	BORE HOLE 18.SSF	136611.252	
722080.745	4294166.938	4375	15-Jun-15	BORE HOLE 18.SSF	136558.376	
722079.293	4294171.53	4376	15-Jun-15	BORE HOLE 18.SSF	136458.481	
722079.7	4294165.014	4380	15-Jun-15	BORE HOLE 18.SSF	136438.51	
722078.287	4294180.283	4381	15-Jun-15	BORE HOLE 18.SSF	136473.632	
722077.534	4294180.119	4383	15-Jun-15	BORE HOLE 18.SSF	136405.399	
722082.2	4294161.478	4384	15-Jun-15	BORE HOLE 18.SSF	136511.558	
722079.905	4294174.413	4385	15-Jun-15	BORE HOLE 18.SSF	136529.499	

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722080.881	4294162.894	4392	15-Jun-15	BORE HOLE 18.SSF	136445.458	
722077.532	4294180.139	4393	15-Jun-15	BORE HOLE 18.SSF	136392.03	
722078.311	4294171.999	4404	15-Jun-15	BORE HOLE 18.SSF	136429.398	
722079.546	4294173.907	4409	15-Jun-15	BORE HOLE 18.SSF	136548.352	
722077.541	4294180.128	4410	15-Jun-15	BORE HOLE 18.SSF	136407.311	
722077.082	4294179.989	4410	15-Jun-15	BORE HOLE 18.SSF	136413.605	
722078.941	4294172.371	4416	15-Jun-15	BORE HOLE 18.SSF	136490.344	
722081.287	4294161.207	4424	15-Jun-15	BORE HOLE 18.SSF	136506.471	
722079.275	4294174.686	4426	15-Jun-15	BORE HOLE 18.SSF	136547.223	
722080.286	4294181.254	4429	15-Jun-15	BORE HOLE 18.SSF	136668.502	
722079.33	4294166.682	4437	15-Jun-15	BORE HOLE 18.SSF	136436.415	
722081.703	4294162.33	4439	15-Jun-15	BORE HOLE 18.SSF	136565.523	
722083.11	4294161.677	4447	15-Jun-15	BORE HOLE 18.SSF	136622.47	
722081.613	4294166.692	4448	15-Jun-15	BORE HOLE 18.SSF	136519.432	
722080.818	4294166.301	4448	15-Jun-15	BORE HOLE 18.SSF	136559.408	
722077.541	4294180.109	4451	15-Jun-15	BORE HOLE 18.SSF	136400.345	
722079.529	4294176.533	4456	15-Jun-15	BORE HOLE 18.SSF	136532.575	
722082.207	4294161.98	4461	15-Jun-15	BORE HOLE 18.SSF	136512.496	
722080.49	4294181.023	4461	15-Jun-15	BORE HOLE 18.SSF	136662.34	
722080.972	4294162.183	4465	15-Jun-15	BORE HOLE 18.SSF	136505.347	
722078.602	4294176.015	4467	15-Jun-15	BORE HOLE 18.SSF	136465.43	
722077.536	4294180.129	4468	15-Jun-15	BORE HOLE 18.SSF	136406.509	
722078.253	4294178.907	4468	15-Jun-15	BORE HOLE 18.SSF	136469.445	
722077.54	4294180.108	4473	15-Jun-15	BORE HOLE 18.SSF	136399.674	
722078.264	4294179.916	4474	15-Jun-15	BORE HOLE 18.SSF	136471.405	
722080.091	4294173.583	4476	15-Jun-15	BORE HOLE 18.SSF	136528.413	
722082.176	4294162.627	4481	15-Jun-15	BORE HOLE 18.SSF	136513.413	
722078.139	4294180.196	4504	15-Jun-15	BORE HOLE 18.SSF	136474.7	
722078.216	4294175.953	4504	15-Jun-15	BORE HOLE 18.SSF	136485.417	
722079.845	4294172.497	4513	15-Jun-15	BORE HOLE 18.SSF	136550.561	
722080.371	4294172.173	4515	15-Jun-15	BORE HOLE 18.SSF	136526.554	
722081.8	4294166.111	4520	15-Jun-15	BORE HOLE 18.SSF	136518.596	
722079.628	4294175.702	4522	15-Jun-15	BORE HOLE 18.SSF	136531.434	
722082.664	4294166.172	4524	15-Jun-15	BORE HOLE 18.SSF	136615.341	
722080.669	4294167.567	4525	15-Jun-15	BORE HOLE 18.SSF	136557.346	
722079.89	4294172.024	4534	15-Jun-15	BORE HOLE 18.SSF	136551.399	
722079.242	4294175.334	4535	15-Jun-15	BORE HOLE 18.SSF	136546.442	
722078.514	4294176.813	4537	15-Jun-15	BORE HOLE 18.SSF	136466.598	
722078.176	4294180.171	4544	15-Jun-15	BORE HOLE 18.SSF	136475.427	
722079.75	4294169.489	4545	15-Jun-15	BORE HOLE 18.SSF	136455.404	
722080.881	4294164.485	4549	15-Jun-15	BORE HOLE 18.SSF	136448.355	
722080.727	4294162.374	4554	15-Jun-15	BORE HOLE 18.SSF	136444.539	
722078.685	4294175.454	4554	15-Jun-15	BORE HOLE 18.SSF	136464.6	
722079.101	4294171.657	4554	15-Jun-15	BORE HOLE 18.SSF	136491.413	
722080.463	4294181.106	4561	15-Jun-15	BORE HOLE 18.SSF	136664.443	
722077.553	4294180.112	4568	15-Jun-15	BORE HOLE 18.SSF	136395.646	
722078.216	4294179.56	4568	15-Jun-15	BORE HOLE 18.SSF	136470.592	

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722079.575	4294165.768	4573	15-Jun-15	BORE HOLE 18.SSF	136437.457	
722079.034	4294173.15	4575	15-Jun-15	BORE HOLE 18.SSF	136460.596	
722077.549	4294180.106	4580	15-Jun-15	BORE HOLE 18.SSF	136396.75	
722078.373	4294178.492	4588	15-Jun-15	BORE HOLE 18.SSF	136481.729	
722079.348	4294170.939	4594	15-Jun-15	BORE HOLE 18.SSF	136457.392	
722080.295	4294181.271	4594	15-Jun-15	BORE HOLE 18.SSF	136667.534	
722081.825	4294160.119	4595	15-Jun-15	BORE HOLE 18.SSF	136508.643	
722077.536	4294178.673	4600	15-Jun-15	BORE HOLE 18.SSF	136420.379	
722080.509	4294181.06	4602	15-Jun-15	BORE HOLE 18.SSF	136663.564	
722079.875	4294162.425	4603	15-Jun-15	BORE HOLE 18.SSF	136442.426	
722082.473	4294164.728	4608	15-Jun-15	BORE HOLE 18.SSF	136570.661	
722080.588	4294166.653	4614	15-Jun-15	BORE HOLE 18.SSF	136451.463	
722080.939	4294163.437	4615	15-Jun-15	BORE HOLE 18.SSF	136446.463	
722079.73	4294164.302	4616	15-Jun-15	BORE HOLE 18.SSF	136439.563	
722078.758	4294174.754	4617	15-Jun-15	BORE HOLE 18.SSF	136463.51	
722078.499	4294174.455	4628	15-Jun-15	BORE HOLE 18.SSF	136487.535	
722078.45	4294179.173	4637	15-Jun-15	BORE HOLE 18.SSF	136480.531	
722078.801	4294173.13	4638	15-Jun-15	BORE HOLE 18.SSF	136489.288	
722077.162	4294179.974	4644	15-Jun-15	BORE HOLE 18.SSF	136415.47	
722079.76	4294163.118	4650	15-Jun-15	BORE HOLE 18.SSF	136441.339	
722078.343	4294178.174	4663	15-Jun-15	BORE HOLE 18.SSF	136468.393	
722081.558	4294160.554	4663	15-Jun-15	BORE HOLE 18.SSF	136507.342	
722079.743	4294163.734	4666	15-Jun-15	BORE HOLE 18.SSF	136440.435	
722080.219	4294172.991	4677	15-Jun-15	BORE HOLE 18.SSF	136527.643	
722079.763	4294173.174	4678	15-Jun-15	BORE HOLE 18.SSF	136549.436	
722077.542	4294180.11	4679	15-Jun-15	BORE HOLE 18.SSF	136401.435	
722079.167	4294178.437	4679	15-Jun-15	BORE HOLE 18.SSF	136542.495	
722078.425	4294177.569	4690	15-Jun-15	BORE HOLE 18.SSF	136467.608	
722080.231	4294170.442	4695	15-Jun-15	BORE HOLE 18.SSF	136553.441	
722079.409	4294177.109	4696	15-Jun-15	BORE HOLE 18.SSF	136533.394	
722078.301	4294175.292	4709	15-Jun-15	BORE HOLE 18.SSF	136486.337	
722082.16	4294160.989	4713	15-Jun-15	BORE HOLE 18.SSF	136510.607	
722082.511	4294165.153	4714	15-Jun-15	BORE HOLE 18.SSF	136571.337	
722077.129	4294179.967	4723	15-Jun-15	BORE HOLE 18.SSF	136414.633	
722078.41	4294179.613	4736	15-Jun-15	BORE HOLE 18.SSF	136479.473	
722079.753	4294175.036	4746	15-Jun-15	BORE HOLE 18.SSF	136530.383	
722079.471	4294170.286	4754	15-Jun-15	BORE HOLE 18.SSF	136456.515	
722077.676	4294175.412	4762	15-Jun-15	BORE HOLE 18.SSF	136425.345	
722081.268	4294168.199	4773	15-Jun-15	BORE HOLE 18.SSF	136521.341	
722078.709	4294173.605	4778	15-Jun-15	BORE HOLE 18.SSF	136488.667	
722080.11	4294181.339	4779	15-Jun-15	BORE HOLE 18.SSF	136655.393	
722077.546	4294180.104	4781	15-Jun-15	BORE HOLE 18.SSF	136397.444	
722079.186	4294171.005	4789	15-Jun-15	BORE HOLE 18.SSF	136492.501	
722079.708	4294168.039	4789	15-Jun-15	BORE HOLE 18.SSF	136496.739	
722082.213	4294162.535	4792	15-Jun-15	BORE HOLE 18.SSF	136566.548	
722077.628	4294175.845	4799	15-Jun-15	BORE HOLE 18.SSF	136424.682	
722080.046	4294171.182	4800	15-Jun-15	BORE HOLE 18.SSF	136552.494	

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722080.216	4294181.57	4807	15-Jun-15	BORE HOLE 18.SSF	136652.423	
722082.258	4294168.908	4808	15-Jun-15	BORE HOLE 18.SSF	136577.275	
722079.08	4294179.65	4811	15-Jun-15	BORE HOLE 18.SSF	136540.402	
722080.428	4294181.018	4811	15-Jun-15	BORE HOLE 18.SSF	136660.378	
722082.027	4294160.387	4820	15-Jun-15	BORE HOLE 18.SSF	136509.582	
722082.113	4294164.111	4821	15-Jun-15	BORE HOLE 18.SSF	136515.44	
722080.487	4294179.97	4829	15-Jun-15	BORE HOLE 18.SSF	136596.511	
722083.605	4294161.736	4834	15-Jun-15	BORE HOLE 18.SSF	136623.381	
722080.434	4294180.995	4851	15-Jun-15	BORE HOLE 18.SSF	136661.416	
722081.051	4294169.031	4867	15-Jun-15	BORE HOLE 18.SSF	136522.486	
722081.41	4294167.561	4872	15-Jun-15	BORE HOLE 18.SSF	136520.512	
722081.22	4294175.852	4877	15-Jun-15	BORE HOLE 18.SSF	136586.468	
722080.326	4294162.138	4884	15-Jun-15	BORE HOLE 18.SSF	136443.501	
722082.476	4294163.685	4905	15-Jun-15	BORE HOLE 18.SSF	136568.58	
722080.102	4294181.466	4910	15-Jun-15	BORE HOLE 18.SSF	136654.468	
722080.185	4294179.661	4915	15-Jun-15	BORE HOLE 18.SSF	136592.465	
722082.412	4294167.487	4932	15-Jun-15	BORE HOLE 18.SSF	136613.338	
722077.541	4294180.105	4939	15-Jun-15	BORE HOLE 18.SSF	136398.587	
722080.379	4294181.077	4941	15-Jun-15	BORE HOLE 18.SSF	136659.338	
722082.586	4294166.341	4942	15-Jun-15	BORE HOLE 18.SSF	136573.34	
722082.609	4294166.769	4949	15-Jun-15	BORE HOLE 18.SSF	136614.466	
722082.06	4294164.798	4954	15-Jun-15	BORE HOLE 18.SSF	136516.467	
722079.265	4294176.905	4967	15-Jun-15	BORE HOLE 18.SSF	136544.549	
722080.734	4294173.578	4973	15-Jun-15	BORE HOLE 18.SSF	136605.445	
722080.14	4294181.236	4976	15-Jun-15	BORE HOLE 18.SSF	136656.536	
722079.469	4294168.904	4981	15-Jun-15	BORE HOLE 18.SSF	136495.535	
722081.715	4294169.401	4981	15-Jun-15	BORE HOLE 18.SSF	136610.661	
722079.26	4294177.673	4982	15-Jun-15	BORE HOLE 18.SSF	136534.269	
722078.194	4294176.578	4995	15-Jun-15	BORE HOLE 18.SSF	136484.503	
722082.11	4294169.814	4999	15-Jun-15	BORE HOLE 18.SSF	136578.401	
722080.663	4294174.267	5002	15-Jun-15	BORE HOLE 18.SSF	136604.428	
722082.144	4294163.58	5011	15-Jun-15	BORE HOLE 18.SSF	136514.673	
722082.462	4294163.016	5013	15-Jun-15	BORE HOLE 18.SSF	136567.384	
722084.025	4294162.289	5014	15-Jun-15	BORE HOLE 18.SSF	136624.438	
722080.941	4294172.36	5026	15-Jun-15	BORE HOLE 18.SSF	136607.272	
722079.05	4294179.757	5031	15-Jun-15	BORE HOLE 18.SSF	136537.498	
722080.345	4294179.033	5032	15-Jun-15	BORE HOLE 18.SSF	136591.586	
722079.25	4294176.244	5036	15-Jun-15	BORE HOLE 18.SSF	136545.352	
722080.147	4294181.543	5036	15-Jun-15	BORE HOLE 18.SSF	136653.514	
722077.197	4294179.951	5042	15-Jun-15	BORE HOLE 18.SSF	136416.395	
722077.321	4294179.456	5045	15-Jun-15	BORE HOLE 18.SSF	136419.275	
722080.237	4294181.123	5050	15-Jun-15	BORE HOLE 18.SSF	136658.436	
722082.294	4294168.443	5055	15-Jun-15	BORE HOLE 18.SSF	136576.567	
722078.812	4294174.234	5062	15-Jun-15	BORE HOLE 18.SSF	136462.655	
722079.266	4294170.484	5071	15-Jun-15	BORE HOLE 18.SSF	136493.28	
722080.793	4294177.681	5094	15-Jun-15	BORE HOLE 18.SSF	136589.45	
722082.435	4294164.023	5099	15-Jun-15	BORE HOLE 18.SSF	136569.252	

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722080.47	4294179.258	5101	15-Jun-15	BORE HOLE 18.SSF	136597.458	
722083.122	4294170.927	5105	15-Jun-15	BORE HOLE 18.SSF	136636.423	
722080.556	4294180.513	5106	15-Jun-15	BORE HOLE 18.SSF	136595.593	
722081.435	4294170.309	5135	15-Jun-15	BORE HOLE 18.SSF	136609.498	
722080.145	4294181.17	5139	15-Jun-15	BORE HOLE 18.SSF	136657.59	
722082.454	4294167.028	5150	15-Jun-15	BORE HOLE 18.SSF	136574.392	
722083.575	4294168.424	5151	15-Jun-15	BORE HOLE 18.SSF	136632.612	
722081.984	4294165.495	5156	15-Jun-15	BORE HOLE 18.SSF	136517.567	
722078.21	4294177.136	5174	15-Jun-15	BORE HOLE 18.SSF	136483.641	
722080.613	4294166.068	5176	15-Jun-15	BORE HOLE 18.SSF	136450.648	
722077.255	4294179.687	5182	15-Jun-15	BORE HOLE 18.SSF	136418.667	
722079.141	4294180.013	5185	15-Jun-15	BORE HOLE 18.SSF	136538.43	
722083.695	4294166.844	5186	15-Jun-15	BORE HOLE 18.SSF	136630.597	
722079.058	4294178.568	5187	15-Jun-15	BORE HOLE 18.SSF	136535.516	
722078.962	4294179.211	5197	15-Jun-15	BORE HOLE 18.SSF	136536.462	
722080.467	4294180.663	5197	15-Jun-15	BORE HOLE 18.SSF	136594.413	
722078.315	4294178.047	5198	15-Jun-15	BORE HOLE 18.SSF	136482.365	
722081.988	4294170.625	5212	15-Jun-15	BORE HOLE 18.SSF	136579.337	
722080.562	4294178.361	5213	15-Jun-15	BORE HOLE 18.SSF	136590.546	
722081.58	4294173.021	5220	15-Jun-15	BORE HOLE 18.SSF	136582.589	
722080.553	4294180.926	5220	15-Jun-15	BORE HOLE 18.SSF	136650.386	
722080.967	4294176.937	5230	15-Jun-15	BORE HOLE 18.SSF	136588.336	
722081.401	4294175.148	5231	15-Jun-15	BORE HOLE 18.SSF	136585.306	
722081.496	4294173.574	5238	15-Jun-15	BORE HOLE 18.SSF	136583.263	
722082.598	4294165.913	5239	15-Jun-15	BORE HOLE 18.SSF	136572.581	
722083.64	4294167.497	5264	15-Jun-15	BORE HOLE 18.SSF	136631.37	
722079.183	4294179.071	5279	15-Jun-15	BORE HOLE 18.SSF	136541.53	
722079.339	4294169.565	5282	15-Jun-15	BORE HOLE 18.SSF	136494.569	
722080.743	4294165.26	5296	15-Jun-15	BORE HOLE 18.SSF	136449.46	
722080.678	4294174.965	5306	15-Jun-15	BORE HOLE 18.SSF	136603.481	
722080.373	4294181.481	5306	15-Jun-15	BORE HOLE 18.SSF	136651.284	
722080.661	4294176.391	5327	15-Jun-15	BORE HOLE 18.SSF	136601.374	
722081.072	4294176.452	5338	15-Jun-15	BORE HOLE 18.SSF	136587.565	
722083.529	4294168.925	5350	15-Jun-15	BORE HOLE 18.SSF	136633.367	
722079.067	4294179.938	5354	15-Jun-15	BORE HOLE 18.SSF	136539.482	
722080.204	4294180.24	5360	15-Jun-15	BORE HOLE 18.SSF	136593.35	
722079.195	4294177.891	5377	15-Jun-15	BORE HOLE 18.SSF	136543.246	
722078.932	4294173.645	5386	15-Jun-15	BORE HOLE 18.SSF	136461.472	
722081.738	4294172.111	5387	15-Jun-15	BORE HOLE 18.SSF	136581.397	
722081.455	4294174.69	5407	15-Jun-15	BORE HOLE 18.SSF	136584.669	
722080.843	4294172.908	5415	15-Jun-15	BORE HOLE 18.SSF	136606.496	
722080.705	4294175.694	5434	15-Jun-15	BORE HOLE 18.SSF	136602.477	
722077.227	4294179.81	5454	15-Jun-15	BORE HOLE 18.SSF	136417.603	
722081.461	4294177.908	5466	15-Jun-15	BORE HOLE 18.SSF	136646.586	
722080.581	4294178.376	5479	15-Jun-15	BORE HOLE 18.SSF	136598.566	
722080.842	4294180.015	5481	15-Jun-15	BORE HOLE 18.SSF	136649.271	
722081.133	4294171.302	5489	15-Jun-15	BORE HOLE 18.SSF	136608.401	

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722081.89	4294176.215	5562	15-Jun-15	BORE HOLE 18.SSF	136644.338	
722080.998	4294179.524	5571	15-Jun-15	BORE HOLE 18.SSF	136648.637	
722081.714	4294176.981	5611	15-Jun-15	BORE HOLE 18.SSF	136645.419	
722082.987	4294171.723	5631	15-Jun-15	BORE HOLE 18.SSF	136637.523	
722083.839	4294165.748	5646	15-Jun-15	BORE HOLE 18.SSF	136629.456	
722080.653	4294176.997	5657	15-Jun-15	BORE HOLE 18.SSF	136600.45	
722082.097	4294175.344	5676	15-Jun-15	BORE HOLE 18.SSF	136643.195	
722081.847	4294171.48	5684	15-Jun-15	BORE HOLE 18.SSF	136580.468	
722084.084	4294164.226	5704	15-Jun-15	BORE HOLE 18.SSF	136627.432	
722080.647	4294177.606	5737	15-Jun-15	BORE HOLE 18.SSF	136599.591	
722082.336	4294167.798	5746	15-Jun-15	BORE HOLE 18.SSF	136575.54	
722083.316	4294170.105	5756	15-Jun-15	BORE HOLE 18.SSF	136635.246	
722084.205	4294162.917	5775	15-Jun-15	BORE HOLE 18.SSF	136625.602	
722082.895	4294172.282	5808	15-Jun-15	BORE HOLE 18.SSF	136638.354	
722083.989	4294164.907	5811	15-Jun-15	BORE HOLE 18.SSF	136628.424	
722081.323	4294178.38	5865	15-Jun-15	BORE HOLE 18.SSF	136647.166	
722082.491	4294173.688	5866	15-Jun-15	BORE HOLE 18.SSF	136640.456	
722082.676	4294173.082	5869	15-Jun-15	BORE HOLE 18.SSF	136639.497	
722084.194	4294163.472	5873	15-Jun-15	BORE HOLE 18.SSF	136626.41	
722083.423	4294169.606	6069	15-Jun-15	BORE HOLE 18.SSF	136634.469	
722082.189	4294174.934	6625	15-Jun-15	BORE HOLE 18.SSF	136642.597	
722082.332	4294174.286	7060	15-Jun-15	BORE HOLE 18.SSF	136641.539	
721990.086	4294301.325	3982	11-Jun-15	BORE HOLE 2 061115.S	423029.672	
721989.737	4294302.018	3989	11-Jun-15	BORE HOLE 2 061115.S	423030.587	
721994.611	4294294.639	4055	11-Jun-15	BORE HOLE 2 061115.S	423093.491	
721991.632	4294302.218	4119	11-Jun-15	BORE HOLE 2 061115.S	422643.8	
721992.827	4294297.925	4133	11-Jun-15	BORE HOLE 2 061115.S	422897.591	
721991.614	4294302.227	4169	11-Jun-15	BORE HOLE 2 061115.S	422639.595	
721994.767	4294294.746	4179	11-Jun-15	BORE HOLE 2 061115.S	423090.41	
721995.046	4294294.575	4181	11-Jun-15	BORE HOLE 2 061115.S	423086.606	
721994.726	4294294.721	4188	11-Jun-15	BORE HOLE 2 061115.S	423091.52	
721991.635	4294302.213	4207	11-Jun-15	BORE HOLE 2 061115.S	422644.469	
721993.685	4294294.985	4234	11-Jun-15	BORE HOLE 2 061115.S	422982.633	
721991.601	4294302.28	4239	11-Jun-15	BORE HOLE 2 061115.S	422633.817	
721994.415	4294293.907	4239	11-Jun-15	BORE HOLE 2 061115.S	422984.463	
721994.12	4294294.356	4257	11-Jun-15	BORE HOLE 2 061115.S	422983.694	
721993.171	4294297.233	4275	11-Jun-15	BORE HOLE 2 061115.S	422898.716	
721990.541	4294300.454	4280	11-Jun-15	BORE HOLE 2 061115.S	423028.506	
721993.066	4294298.119	4285	11-Jun-15	BORE HOLE 2 061115.S	422946.672	
721993.349	4294297.648	4297	11-Jun-15	BORE HOLE 2 061115.S	422945.643	
721994.804	4294294.75	4310	11-Jun-15	BORE HOLE 2 061115.S	423089.632	
721992.645	4294296.82	4336	11-Jun-15	BORE HOLE 2 061115.S	423050.344	
721991.722	4294302.394	4347	11-Jun-15	BORE HOLE 2 061115.S	422526.002	
721992.203	4294300.557	4351	11-Jun-15	BORE HOLE 2 061115.S	422813.754	
721991.674	4294302.399	4359	11-Jun-15	BORE HOLE 2 061115.S	422522.537	
721990.033	4294302.745	4362	11-Jun-15	BORE HOLE 2 061115.S	422955.698	
721991.626	4294302.223	4374	11-Jun-15	BORE HOLE 2 061115.S	422641.855	

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721994.883	4294294.759	4383	11-Jun-15	BORE HOLE 2 061115.S	423088.505	
721994.977	4294294.724	4392	11-Jun-15	BORE HOLE 2 061115.S	423087.626	
721989.365	4294302.797	4398	11-Jun-15	BORE HOLE 2 061115.S	423031.679	
721991.584	4294302.29	4403	11-Jun-15	BORE HOLE 2 061115.S	422630.464	
721991.627	4294302.221	4403	11-Jun-15	BORE HOLE 2 061115.S	422642.701	
721993.258	4294299.391	4424	11-Jun-15	BORE HOLE 2 061115.S	422867.599	
721994.141	4294295.556	4429	11-Jun-15	BORE HOLE 2 061115.S	422902.598	
721989.902	4294302.559	4431	11-Jun-15	BORE HOLE 2 061115.S	422888.704	
721993.835	4294298.472	4439	11-Jun-15	BORE HOLE 2 061115.S	422865.607	
721990.119	4294301.944	4450	11-Jun-15	BORE HOLE 2 061115.S	422889.637	
721994.935	4294294.75	4461	11-Jun-15	BORE HOLE 2 061115.S	423084.666	
721994.672	4294294.681	4463	11-Jun-15	BORE HOLE 2 061115.S	423092.559	
721991.721	4294302.391	4470	11-Jun-15	BORE HOLE 2 061115.S	422526.802	
721994.948	4294295.462	4477	11-Jun-15	BORE HOLE 2 061115.S	423063.39	
721993.306	4294295.972	4479	11-Jun-15	BORE HOLE 2 061115.S	423051.703	
721991.671	4294299.509	4480	11-Jun-15	BORE HOLE 2 061115.S	422894.465	
721990.424	4294302.211	4502	11-Jun-15	BORE HOLE 2 061115.S	422954.593	
721991.64	4294302.211	4519	11-Jun-15	BORE HOLE 2 061115.S	422645.731	
721994.035	4294295.136	4519	11-Jun-15	BORE HOLE 2 061115.S	423059.66	
721994.755	4294295.609	4519	11-Jun-15	BORE HOLE 2 061115.S	423062.538	
721990.445	4294301.424	4520	11-Jun-15	BORE HOLE 2 061115.S	422890.674	
721989.043	4294303.365	4521	11-Jun-15	BORE HOLE 2 061115.S	423032.539	
721991.656	4294302.379	4522	11-Jun-15	BORE HOLE 2 061115.S	422521.699	
721991.819	4294301.088	4522	11-Jun-15	BORE HOLE 2 061115.S	422812.703	
721989.771	4294303.23	4524	11-Jun-15	BORE HOLE 2 061115.S	422956.599	
721994.965	4294294.809	4530	11-Jun-15	BORE HOLE 2 061115.S	423083.598	
721991.603	4294302.27	4537	11-Jun-15	BORE HOLE 2 061115.S	422634.692	
721993.827	4294295.719	4559	11-Jun-15	BORE HOLE 2 061115.S	423052.587	
721993.836	4294295.961	4568	11-Jun-15	BORE HOLE 2 061115.S	422901.46	
721989.312	4294304.202	4572	11-Jun-15	BORE HOLE 2 061115.S	422958.398	
721993.607	4294297.177	4573	11-Jun-15	BORE HOLE 2 061115.S	422944.695	
721994.485	4294297.275	4582	11-Jun-15	BORE HOLE 2 061115.S	422820.544	
721991.743	4294298.706	4583	11-Jun-15	BORE HOLE 2 061115.S	423025.538	
721990.899	4294299.844	4583	11-Jun-15	BORE HOLE 2 061115.S	423027.542	
721993.849	4294298.284	4585	11-Jun-15	BORE HOLE 2 061115.S	422818.763	
721991.236	4294299.384	4588	11-Jun-15	BORE HOLE 2 061115.S	423026.674	
721994.988	4294294.564	4594	11-Jun-15	BORE HOLE 2 061115.S	423085.631	
721993.594	4294298.846	4612	11-Jun-15	BORE HOLE 2 061115.S	422866.595	
721994.614	4294295.382	4618	11-Jun-15	BORE HOLE 2 061115.S	423066.656	
721989.512	4294303.806	4622	11-Jun-15	BORE HOLE 2 061115.S	422957.66	
721993.61	4294296.342	4623	11-Jun-15	BORE HOLE 2 061115.S	422900.596	
721993.954	4294296.533	4623	11-Jun-15	BORE HOLE 2 061115.S	422943.591	
721990.148	4294303.97	4627	11-Jun-15	BORE HOLE 2 061115.S	422807.688	
721992.388	4294299.037	4632	11-Jun-15	BORE HOLE 2 061115.S	422948.677	
721988.385	4294305.377	4632	11-Jun-15	BORE HOLE 2 061115.S	422961.51	
721994.578	4294294.615	4658	11-Jun-15	BORE HOLE 2 061115.S	423094.311	
721992.546	4294300.178	4660	11-Jun-15	BORE HOLE 2 061115.S	422814.627	

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721991.594	4294302.287	4662	11-Jun-15	BORE HOLE 2 061115.S	422632.638	
721994.324	4294294.048	4664	11-Jun-15	BORE HOLE 2 061115.S	423015.617	
721994.888	4294295.366	4678	11-Jun-15	BORE HOLE 2 061115.S	423064.549	
721992.397	4294298.494	4681	11-Jun-15	BORE HOLE 2 061115.S	422896.475	
721995.142	4294294.912	4688	11-Jun-15	BORE HOLE 2 061115.S	423081.605	
721993.241	4294299.298	4689	11-Jun-15	BORE HOLE 2 061115.S	422816.625	
721991.361	4294298.677	4693	11-Jun-15	BORE HOLE 2 061115.S	423047.591	
721991.585	4294302.284	4697	11-Jun-15	BORE HOLE 2 061115.S	422631.542	
721991.495	4294302.35	4706	11-Jun-15	BORE HOLE 2 061115.S	422653.593	
721994.103	4294294.554	4708	11-Jun-15	BORE HOLE 2 061115.S	423016.406	
721995.57	4294292.2	4713	11-Jun-15	BORE HOLE 2 061115.S	422987.615	
721994.734	4294295.375	4716	11-Jun-15	BORE HOLE 2 061115.S	423065.599	
721991.603	4294302.257	4719	11-Jun-15	BORE HOLE 2 061115.S	422635.595	
721995.974	4294291.666	4721	11-Jun-15	BORE HOLE 2 061115.S	422988.628	
721991.956	4294300.517	4722	11-Jun-15	BORE HOLE 2 061115.S	422677.598	
721992.125	4294298.065	4734	11-Jun-15	BORE HOLE 2 061115.S	423024.425	
721991.454	4294299.883	4738	11-Jun-15	BORE HOLE 2 061115.S	422893.729	
721992.724	4294298.621	4742	11-Jun-15	BORE HOLE 2 061115.S	422947.678	
721994.203	4294297.741	4746	11-Jun-15	BORE HOLE 2 061115.S	422819.709	
721990.754	4294300.914	4747	11-Jun-15	BORE HOLE 2 061115.S	422891.693	
721994.991	4294295.926	4752	11-Jun-15	BORE HOLE 2 061115.S	423054.536	
721994.372	4294295.825	4754	11-Jun-15	BORE HOLE 2 061115.S	423053.45	
721993.437	4294295.617	4767	11-Jun-15	BORE HOLE 2 061115.S	423018.499	
721994.101	4294295.392	4770	11-Jun-15	BORE HOLE 2 061115.S	423060.412	
721989.919	4294304.448	4773	11-Jun-15	BORE HOLE 2 061115.S	422806.764	
721994.823	4294296.741	4775	11-Jun-15	BORE HOLE 2 061115.S	422821.594	
721995.265	4294295.443	4779	11-Jun-15	BORE HOLE 2 061115.S	423071.674	
721993.068	4294296.068	4785	11-Jun-15	BORE HOLE 2 061115.S	422980.411	
721992.322	4294297.293	4788	11-Jun-15	BORE HOLE 2 061115.S	423049.606	
721995.251	4294295.377	4789	11-Jun-15	BORE HOLE 2 061115.S	423070.595	
721988.741	4294305.054	4795	11-Jun-15	BORE HOLE 2 061115.S	422960.594	
721991.585	4294302.252	4796	11-Jun-15	BORE HOLE 2 061115.S	422650.723	
721989.625	4294303.253	4798	11-Jun-15	BORE HOLE 2 061115.S	422887.615	
721993.362	4294296.779	4804	11-Jun-15	BORE HOLE 2 061115.S	422899.602	
721991.717	4294302.407	4808	11-Jun-15	BORE HOLE 2 061115.S	422524.778	
721994.113	4294298.092	4811	11-Jun-15	BORE HOLE 2 061115.S	422864.628	
721994.467	4294295.406	4812	11-Jun-15	BORE HOLE 2 061115.S	422941.702	
721991.699	4294302.415	4814	11-Jun-15	BORE HOLE 2 061115.S	422523.595	
721992.056	4294298.924	4815	11-Jun-15	BORE HOLE 2 061115.S	422895.612	
721991.545	4294302.3	4819	11-Jun-15	BORE HOLE 2 061115.S	422652.588	
721993.314	4294295.595	4822	11-Jun-15	BORE HOLE 2 061115.S	422981.411	
721991.614	4294302.231	4824	11-Jun-15	BORE HOLE 2 061115.S	422638.709	
721995.014	4294295.054	4827	11-Jun-15	BORE HOLE 2 061115.S	423057.433	
721991.61	4294302.234	4830	11-Jun-15	BORE HOLE 2 061115.S	422637.848	
721994.763	4294294.806	4838	11-Jun-15	BORE HOLE 2 061115.S	422904.558	
721994.852	4294295.415	4841	11-Jun-15	BORE HOLE 2 061115.S	423068.344	
721994.879	4294293.221	4845	11-Jun-15	BORE HOLE 2 061115.S	422985.699	

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721997.18	4294291.506	4845	11-Jun-15	BORE HOLE 2 061115.S	422911.604	
721992.753	4294300.174	4851	11-Jun-15	BORE HOLE 2 061115.S	422868.713	
721992.918	4294299.741	4856	11-Jun-15	BORE HOLE 2 061115.S	422815.674	
721991.62	4294302.225	4857	11-Jun-15	BORE HOLE 2 061115.S	422640.763	
721996.384	4294291.062	4868	11-Jun-15	BORE HOLE 2 061115.S	422989.664	
721994.519	4294295.114	4869	11-Jun-15	BORE HOLE 2 061115.S	422903.723	
721993.72	4294295.23	4876	11-Jun-15	BORE HOLE 2 061115.S	423017.647	
721994.645	4294293.498	4878	11-Jun-15	BORE HOLE 2 061115.S	423014.615	
721994.423	4294295.634	4888	11-Jun-15	BORE HOLE 2 061115.S	423061.646	
721995.289	4294295.299	4901	11-Jun-15	BORE HOLE 2 061115.S	423056.544	
721999.284	4294291.786	4908	11-Jun-15	BORE HOLE 2 061115.S	422747.652	
721990.817	4294301.673	4911	11-Jun-15	BORE HOLE 2 061115.S	422953.47	
721991.496	4294302.391	4912	11-Jun-15	BORE HOLE 2 061115.S	422654.715	
721988.959	4294304.732	4912	11-Jun-15	BORE HOLE 2 061115.S	422959.602	
721987.891	4294305.455	4915	11-Jun-15	BORE HOLE 2 061115.S	422962.413	
721995.018	4294293.026	4926	11-Jun-15	BORE HOLE 2 061115.S	423013.644	
721991.157	4294302.233	4927	11-Jun-15	BORE HOLE 2 061115.S	422810.618	
721994.269	4294295.871	4927	11-Jun-15	BORE HOLE 2 061115.S	422942.457	
721992.684	4294300.772	4928	11-Jun-15	BORE HOLE 2 061115.S	422678.705	
721995.118	4294295.39	4928	11-Jun-15	BORE HOLE 2 061115.S	423069.454	
721995.325	4294294.115	4929	11-Jun-15	BORE HOLE 2 061115.S	422906.594	
721989.612	4294305.052	4940	11-Jun-15	BORE HOLE 2 061115.S	422805.627	
721991.493	4294302.461	4941	11-Jun-15	BORE HOLE 2 061115.S	422662.594	
721994.727	4294294.821	4942	11-Jun-15	BORE HOLE 2 061115.S	422940.6	
721998.362	4294287.879	4943	11-Jun-15	BORE HOLE 2 061115.S	423004.453	
721995.401	4294292.436	4944	11-Jun-15	BORE HOLE 2 061115.S	423012.465	
721990.905	4294299.506	4946	11-Jun-15	BORE HOLE 2 061115.S	422974.465	
721990.425	4294303.412	4950	11-Jun-15	BORE HOLE 2 061115.S	422808.698	
721992.856	4294296.47	4961	11-Jun-15	BORE HOLE 2 061115.S	422979.606	
721995.647	4294292.071	4964	11-Jun-15	BORE HOLE 2 061115.S	423011.674	
721991.577	4294302.184	4966	11-Jun-15	BORE HOLE 2 061115.S	422649.593	
721996.901	4294291.929	4973	11-Jun-15	BORE HOLE 2 061115.S	422910.716	
721991.783	4294298.089	4980	11-Jun-15	BORE HOLE 2 061115.S	423048.436	
721991.786	4294298.247	4985	11-Jun-15	BORE HOLE 2 061115.S	422976.673	
721992.408	4294300.791	4986	11-Jun-15	BORE HOLE 2 061115.S	422869.629	
721994.458	4294294.9	4995	11-Jun-15	BORE HOLE 2 061115.S	423058.498	
721996.69	4294290.594	5003	11-Jun-15	BORE HOLE 2 061115.S	422990.362	
721995.565	4294293.877	5004	11-Jun-15	BORE HOLE 2 061115.S	422938.55	
721993.146	4294300.814	5007	11-Jun-15	BORE HOLE 2 061115.S	422679.841	
721991.358	4294298.852	5010	11-Jun-15	BORE HOLE 2 061115.S	422975.608	
721995.132	4294296.35	5011	11-Jun-15	BORE HOLE 2 061115.S	422822.476	
721995.052	4294294.857	5014	11-Jun-15	BORE HOLE 2 061115.S	423082.489	
721999.78	4294287.792	5016	11-Jun-15	BORE HOLE 2 061115.S	422918.704	
721995.341	4294295.606	5020	11-Jun-15	BORE HOLE 2 061115.S	423055.684	
721997.736	4294290.544	5024	11-Jun-15	BORE HOLE 2 061115.S	422913.438	
721997.909	4294289.084	5026	11-Jun-15	BORE HOLE 2 061115.S	422992.658	
721991.714	4294302.345	5029	11-Jun-15	BORE HOLE 2 061115.S	422663.705	

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721999.336	4294291.854	5032	11-Jun-15	BORE HOLE 2 061115.S	422745.647	
721989.068	4294304.299	5038	11-Jun-15	BORE HOLE 2 061115.S	422885.63	
721993.516	4294298.881	5045	11-Jun-15	BORE HOLE 2 061115.S	422817.594	
721996.031	4294293.166	5057	11-Jun-15	BORE HOLE 2 061115.S	422937.44	
721992.586	4294297.351	5060	11-Jun-15	BORE HOLE 2 061115.S	423022.729	
721999.33	4294291.812	5066	11-Jun-15	BORE HOLE 2 061115.S	422744.601	
721989.287	4294303.906	5076	11-Jun-15	BORE HOLE 2 061115.S	422886.466	
721988.744	4294302.823	5077	11-Jun-15	BORE HOLE 2 061115.S	422968.59	
721995.153	4294295.035	5081	11-Jun-15	BORE HOLE 2 061115.S	423080.484	
722000.657	4294288.933	5082	11-Jun-15	BORE HOLE 2 061115.S	422836.61	
721999.096	4294287.474	5083	11-Jun-15	BORE HOLE 2 061115.S	422995.607	
721990.758	4294303.864	5084	11-Jun-15	BORE HOLE 2 061115.S	422875.722	
721999.647	4294285.966	5091	11-Jun-15	BORE HOLE 2 061115.S	423000.579	
721996.035	4294291.522	5092	11-Jun-15	BORE HOLE 2 061115.S	423010.64	
721996.501	4294292.506	5108	11-Jun-15	BORE HOLE 2 061115.S	422909.598	
721997.929	4294288.573	5113	11-Jun-15	BORE HOLE 2 061115.S	423005.773	
721988.012	4294303.976	5116	11-Jun-15	BORE HOLE 2 061115.S	422966.348	
721995.515	4294295.785	5121	11-Jun-15	BORE HOLE 2 061115.S	422823.626	
721995.187	4294292.762	5125	11-Jun-15	BORE HOLE 2 061115.S	422986.545	
721996.73	4294292.213	5130	11-Jun-15	BORE HOLE 2 061115.S	422935.693	
721997.662	4294288.896	5133	11-Jun-15	BORE HOLE 2 061115.S	423006.498	
721997.406	4294291.12	5133	11-Jun-15	BORE HOLE 2 061115.S	422912.364	
721996.041	4294293.136	5134	11-Jun-15	BORE HOLE 2 061115.S	422908.465	
721998.672	4294291.539	5138	11-Jun-15	BORE HOLE 2 061115.S	422831.66	
721994.732	4294295.422	5140	11-Jun-15	BORE HOLE 2 061115.S	423067.793	
721999.329	4294291.793	5143	11-Jun-15	BORE HOLE 2 061115.S	422742.549	
721991.649	4294302.327	5144	11-Jun-15	BORE HOLE 2 061115.S	422646.847	
721990.849	4294299.435	5144	11-Jun-15	BORE HOLE 2 061115.S	423046.429	
721994.902	4294295.573	5146	11-Jun-15	BORE HOLE 2 061115.S	423075.433	
721995.156	4294295.27	5149	11-Jun-15	BORE HOLE 2 061115.S	423078.604	
721989.229	4294305.554	5156	11-Jun-15	BORE HOLE 2 061115.S	422804.476	
721992.133	4294301.387	5160	11-Jun-15	BORE HOLE 2 061115.S	422870.599	
721989.665	4294305.614	5162	11-Jun-15	BORE HOLE 2 061115.S	422879.66	
721991.5	4294301.712	5186	11-Jun-15	BORE HOLE 2 061115.S	422811.597	
721987.789	4294304.894	5187	11-Jun-15	BORE HOLE 2 061115.S	423035.588	
721994.996	4294294.527	5189	11-Jun-15	BORE HOLE 2 061115.S	422905.45	
721999.29	4294291.855	5193	11-Jun-15	BORE HOLE 2 061115.S	422746.525	
722001.266	4294287.167	5194	11-Jun-15	BORE HOLE 2 061115.S	422840.631	
721993.129	4294296.245	5209	11-Jun-15	BORE HOLE 2 061115.S	423019.683	
722000.343	4294286.347	5212	11-Jun-15	BORE HOLE 2 061115.S	422922.764	
721992.363	4294297.687	5216	11-Jun-15	BORE HOLE 2 061115.S	423023.588	
721997.553	4294293.048	5218	11-Jun-15	BORE HOLE 2 061115.S	422828.61	
721999.317	4294291.865	5220	11-Jun-15	BORE HOLE 2 061115.S	422726.473	
721988.68	4294305.879	5220	11-Jun-15	BORE HOLE 2 061115.S	422882.694	
721999.47	4294287.461	5220	11-Jun-15	BORE HOLE 2 061115.S	422926.715	
721989.792	4294301.119	5225	11-Jun-15	BORE HOLE 2 061115.S	422971.458	
721991.479	4294300.713	5226	11-Jun-15	BORE HOLE 2 061115.S	422951.728	

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721991.165	4294300.124	5235	11-Jun-15	BORE HOLE 2 061115.S	422676.475	
721997.255	4294289.462	5235	11-Jun-15	BORE HOLE 2 061115.S	423007.557	
722000.333	4294289.354	5235	11-Jun-15	BORE HOLE 2 061115.S	422835.796	
721997.179	4294293.541	5236	11-Jun-15	BORE HOLE 2 061115.S	422827.738	
722000.287	4294286.946	5246	11-Jun-15	BORE HOLE 2 061115.S	422920.483	
721997.161	4294291.585	5254	11-Jun-15	BORE HOLE 2 061115.S	422934.553	
721997.538	4294291.083	5261	11-Jun-15	BORE HOLE 2 061115.S	422933.449	
721987.458	4294305.014	5262	11-Jun-15	BORE HOLE 2 061115.S	422963.596	
721996.02	4294295.138	5265	11-Jun-15	BORE HOLE 2 061115.S	422824.783	
721987.468	4294304.557	5267	11-Jun-15	BORE HOLE 2 061115.S	422964.691	
721999.273	4294291.922	5268	11-Jun-15	BORE HOLE 2 061115.S	422725.593	
721998.803	4294288.885	5268	11-Jun-15	BORE HOLE 2 061115.S	422929.638	
721992.098	4294302.211	5274	11-Jun-15	BORE HOLE 2 061115.S	422664.817	
721992.695	4294297.087	5276	11-Jun-15	BORE HOLE 2 061115.S	423021.594	
721998.695	4294288.025	5277	11-Jun-15	BORE HOLE 2 061115.S	422994.553	
722000.259	4294289.243	5279	11-Jun-15	BORE HOLE 2 061115.S	422846.687	
721990.319	4294299.821	5284	11-Jun-15	BORE HOLE 2 061115.S	422674.582	
721989.325	4294301.613	5284	11-Jun-15	BORE HOLE 2 061115.S	423042.537	
721999.081	4294288.289	5286	11-Jun-15	BORE HOLE 2 061115.S	422928.562	
721991.587	4294302.234	5295	11-Jun-15	BORE HOLE 2 061115.S	422636.752	
721999.247	4294291.847	5296	11-Jun-15	BORE HOLE 2 061115.S	422718.651	
721994.907	4294298.793	5296	11-Jun-15	BORE HOLE 2 061115.S	422785.638	
721990.919	4294300.528	5297	11-Jun-15	BORE HOLE 2 061115.S	422672.856	
721992.945	4294296.637	5300	11-Jun-15	BORE HOLE 2 061115.S	423020.414	
721998.236	4294289.822	5301	11-Jun-15	BORE HOLE 2 061115.S	422914.73	
721998.249	4294288.656	5302	11-Jun-15	BORE HOLE 2 061115.S	422993.39	
721995.215	4294295.502	5305	11-Jun-15	BORE HOLE 2 061115.S	423072.654	
722000.678	4294288.745	5305	11-Jun-15	BORE HOLE 2 061115.S	422845.662	
721998.29	4294292.09	5307	11-Jun-15	BORE HOLE 2 061115.S	422830.558	
721994.974	4294295.47	5309	11-Jun-15	BORE HOLE 2 061115.S	423073.704	
721992.014	4294301.247	5315	11-Jun-15	BORE HOLE 2 061115.S	422670.594	
721995.732	4294293.546	5315	11-Jun-15	BORE HOLE 2 061115.S	422907.698	
721988.819	4294304.783	5317	11-Jun-15	BORE HOLE 2 061115.S	422884.657	
721990.762	4294302.828	5319	11-Jun-15	BORE HOLE 2 061115.S	422809.594	
721996.405	4294292.648	5323	11-Jun-15	BORE HOLE 2 061115.S	422936.545	
721999.436	4294288.283	5328	11-Jun-15	BORE HOLE 2 061115.S	422917.746	
721999.427	4294286.368	5338	11-Jun-15	BORE HOLE 2 061115.S	423001.498	
721991.848	4294301.957	5340	11-Jun-15	BORE HOLE 2 061115.S	422871.73	
721997.988	4294292.523	5342	11-Jun-15	BORE HOLE 2 061115.S	422829.652	
721999.265	4294287.865	5344	11-Jun-15	BORE HOLE 2 061115.S	422927.666	
721994.407	4294299.344	5346	11-Jun-15	BORE HOLE 2 061115.S	422682.746	
721987.494	4294304.818	5347	11-Jun-15	BORE HOLE 2 061115.S	423036.643	
721997.345	4294289.734	5349	11-Jun-15	BORE HOLE 2 061115.S	422991.617	
721987.813	4294304.199	5349	11-Jun-15	BORE HOLE 2 061115.S	422965.768	
721992.479	4294297.098	5352	11-Jun-15	BORE HOLE 2 061115.S	422978.555	
721988.612	4294305.277	5358	11-Jun-15	BORE HOLE 2 061115.S	422883.76	
721991.628	4294302.311	5367	11-Jun-15	BORE HOLE 2 061115.S	422651.846	

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722001.081	4294287.083	5374	11-Jun-15	BORE HOLE 2 061115.S	422841.723	
721988.572	4294304.01	5378	11-Jun-15	BORE HOLE 2 061115.S	423033.651	
721999.058	4294286.926	5380	11-Jun-15	BORE HOLE 2 061115.S	423002.661	
721990.618	4294299.961	5380	11-Jun-15	BORE HOLE 2 061115.S	422973.667	
721988.922	4294302.253	5381	11-Jun-15	BORE HOLE 2 061115.S	423041.445	
721993.817	4294300.069	5384	11-Jun-15	BORE HOLE 2 061115.S	422681.604	
721991.141	4294301.214	5385	11-Jun-15	BORE HOLE 2 061115.S	422952.594	
721991.448	4294302.347	5388	11-Jun-15	BORE HOLE 2 061115.S	422655.844	
721999.212	4294290.645	5391	11-Jun-15	BORE HOLE 2 061115.S	422849.47	
721999.38	4294291.725	5393	11-Jun-15	BORE HOLE 2 061115.S	422748.766	
722001.415	4294287.484	5395	11-Jun-15	BORE HOLE 2 061115.S	422839.717	
721999.281	4294291.693	5396	11-Jun-15	BORE HOLE 2 061115.S	422712.647	
721997.086	4294293.796	5398	11-Jun-15	BORE HOLE 2 061115.S	422855.672	
721991.561	4294300.906	5404	11-Jun-15	BORE HOLE 2 061115.S	422671.563	
721998.595	4294289.378	5404	11-Jun-15	BORE HOLE 2 061115.S	422915.683	
722001.106	4294287.279	5408	11-Jun-15	BORE HOLE 2 061115.S	422842.716	
721996.295	4294294.796	5414	11-Jun-15	BORE HOLE 2 061115.S	422825.492	
721996.677	4294294.232	5415	11-Jun-15	BORE HOLE 2 061115.S	422826.598	
721990.507	4294304.212	5416	11-Jun-15	BORE HOLE 2 061115.S	422876.467	
721998.832	4294291.173	5417	11-Jun-15	BORE HOLE 2 061115.S	422850.488	
721995.174	4294296.554	5422	11-Jun-15	BORE HOLE 2 061115.S	422861.56	
721990.516	4294299.931	5424	11-Jun-15	BORE HOLE 2 061115.S	423045.592	
721999.596	4294290.117	5424	11-Jun-15	BORE HOLE 2 061115.S	422848.469	
721990.068	4294300.551	5430	11-Jun-15	BORE HOLE 2 061115.S	423044.499	
721999.12	4294290.999	5432	11-Jun-15	BORE HOLE 2 061115.S	422832.677	
721994.472	4294299.331	5439	11-Jun-15	BORE HOLE 2 061115.S	422786.694	
721999.772	4294287.045	5441	11-Jun-15	BORE HOLE 2 061115.S	422925.595	
721989.124	4294302.227	5443	11-Jun-15	BORE HOLE 2 061115.S	422969.696	
722001.353	4294287.983	5445	11-Jun-15	BORE HOLE 2 061115.S	422838.67	
721991.572	4294302.401	5451	11-Jun-15	BORE HOLE 2 061115.S	422647.477	
721988.012	4294303.974	5452	11-Jun-15	BORE HOLE 2 061115.S	423038.641	
721999.39	4294291.755	5458	11-Jun-15	BORE HOLE 2 061115.S	422734.695	
721991.079	4294303.429	5465	11-Jun-15	BORE HOLE 2 061115.S	422874.638	
721991.868	4294300.042	5478	11-Jun-15	BORE HOLE 2 061115.S	422950.661	
721991.471	4294302.423	5479	11-Jun-15	BORE HOLE 2 061115.S	422659.617	
721995.553	4294296.033	5480	11-Jun-15	BORE HOLE 2 061115.S	422860.405	
721992.161	4294299.462	5486	11-Jun-15	BORE HOLE 2 061115.S	422949.678	
721991.103	4294300.397	5490	11-Jun-15	BORE HOLE 2 061115.S	422892.727	
721999.308	4294291.821	5495	11-Jun-15	BORE HOLE 2 061115.S	422717.818	
721991.548	4294302.315	5496	11-Jun-15	BORE HOLE 2 061115.S	422648.597	
721996.864	4294294.21	5496	11-Jun-15	BORE HOLE 2 061115.S	422856.458	
721999.359	4294291.806	5501	11-Jun-15	BORE HOLE 2 061115.S	422727.563	
722001.085	4294288.394	5506	11-Jun-15	BORE HOLE 2 061115.S	422837.672	
721989.719	4294301.036	5507	11-Jun-15	BORE HOLE 2 061115.S	423043.609	
721988.377	4294303.409	5512	11-Jun-15	BORE HOLE 2 061115.S	423039.76	
721997.821	4294290.655	5513	11-Jun-15	BORE HOLE 2 061115.S	422932.601	
721991.497	4294302.5	5518	11-Jun-15	BORE HOLE 2 061115.S	422661.725	

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721999.379	4294291.772	5524	11-Jun-15	BORE HOLE 2 061115.S	422728.716	
721989.002	4294305.785	5526	11-Jun-15	BORE HOLE 2 061115.S	422803.858	
721992.429	4294301.918	5528	11-Jun-15	BORE HOLE 2 061115.S	422666.596	
721995.722	4294295.788	5529	11-Jun-15	BORE HOLE 2 061115.S	422859.816	
721992.477	4294301.923	5531	11-Jun-15	BORE HOLE 2 061115.S	422665.925	
721999.383	4294291.761	5537	11-Jun-15	BORE HOLE 2 061115.S	422735.597	
722000.406	4294286.568	5546	11-Jun-15	BORE HOLE 2 061115.S	422921.598	
721999.877	4294289.722	5549	11-Jun-15	BORE HOLE 2 061115.S	422847.676	
721999.731	4294285.76	5557	11-Jun-15	BORE HOLE 2 061115.S	422999.706	
721991.479	4294302.398	5558	11-Jun-15	BORE HOLE 2 061115.S	422656.733	
721999.35	4294291.793	5564	11-Jun-15	BORE HOLE 2 061115.S	422740.627	
721995.126	4294295.144	5566	11-Jun-15	BORE HOLE 2 061115.S	423079.774	
721999.143	4294291.74	5569	11-Jun-15	BORE HOLE 2 061115.S	422753.558	
721999.182	4294291.904	5572	11-Jun-15	BORE HOLE 2 061115.S	422720.548	
721990.252	4294300.485	5579	11-Jun-15	BORE HOLE 2 061115.S	422972.616	
721989.365	4294301.835	5582	11-Jun-15	BORE HOLE 2 061115.S	422970.341	
722000.218	4294286.395	5587	11-Jun-15	BORE HOLE 2 061115.S	422923.718	
721991.619	4294302.339	5591	11-Jun-15	BORE HOLE 2 061115.S	422872.622	
721996.907	4294289.998	5592	11-Jun-15	BORE HOLE 2 061115.S	423008.428	
721999.166	4294291.931	5594	11-Jun-15	BORE HOLE 2 061115.S	422721.625	
721988.456	4294303.3	5600	11-Jun-15	BORE HOLE 2 061115.S	422967.684	
721999.303	4294291.789	5608	11-Jun-15	BORE HOLE 2 061115.S	422743.593	
721989.844	4294305.926	5608	11-Jun-15	BORE HOLE 2 061115.S	422800.432	
721995.034	4294294.464	5612	11-Jun-15	BORE HOLE 2 061115.S	422939.734	
721999.175	4294291.751	5621	11-Jun-15	BORE HOLE 2 061115.S	422752.676	
721994.745	4294298.967	5632	11-Jun-15	BORE HOLE 2 061115.S	422683.631	
722000.046	4294286.632	5632	11-Jun-15	BORE HOLE 2 061115.S	422924.544	
722001.038	4294288.882	5634	11-Jun-15	BORE HOLE 2 061115.S	422769.7	
721994.494	4294297.516	5634	11-Jun-15	BORE HOLE 2 061115.S	422863.481	
721988.222	4294304.499	5635	11-Jun-15	BORE HOLE 2 061115.S	423034.545	
721999.34	4294291.793	5650	11-Jun-15	BORE HOLE 2 061115.S	422741.644	
721999.407	4294291.75	5657	11-Jun-15	BORE HOLE 2 061115.S	422730.727	
721996.503	4294290.696	5665	11-Jun-15	BORE HOLE 2 061115.S	423009.479	
721989.912	4294305.13	5670	11-Jun-15	BORE HOLE 2 061115.S	422878.445	
722000.941	4294288.19	5671	11-Jun-15	BORE HOLE 2 061115.S	422844.604	
721999.327	4294291.794	5673	11-Jun-15	BORE HOLE 2 061115.S	422715.607	
721988.634	4294302.831	5673	11-Jun-15	BORE HOLE 2 061115.S	423040.593	
721996.495	4294295.881	5677	11-Jun-15	BORE HOLE 2 061115.S	422690.649	
721994.779	4294297.096	5682	11-Jun-15	BORE HOLE 2 061115.S	422862.61	
721999.325	4294291.53	5685	11-Jun-15	BORE HOLE 2 061115.S	422755.65	
721987.604	4294304.461	5693	11-Jun-15	BORE HOLE 2 061115.S	423037.499	
721999.749	4294285.874	5719	11-Jun-15	BORE HOLE 2 061115.S	422998.613	
721999.949	4294289.932	5721	11-Jun-15	BORE HOLE 2 061115.S	422834.689	
721997.9	4294294.095	5725	11-Jun-15	BORE HOLE 2 061115.S	422697.732	
721998.902	4294288.978	5725	11-Jun-15	BORE HOLE 2 061115.S	422916.462	
721991.484	4294302.417	5727	11-Jun-15	BORE HOLE 2 061115.S	422658.479	
721992.137	4294297.666	5729	11-Jun-15	BORE HOLE 2 061115.S	422977.657	

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722002.08	4294287.911	5731	11-Jun-15	BORE HOLE 2 061115.S	422762.622	
721992.28	4294301.723	5733	11-Jun-15	BORE HOLE 2 061115.S	422668.82	
721995.42	4294297.948	5733	11-Jun-15	BORE HOLE 2 061115.S	422686.432	
721989.066	4294306.217	5747	11-Jun-15	BORE HOLE 2 061115.S	422881.617	
722001.089	4294287.78	5749	11-Jun-15	BORE HOLE 2 061115.S	422843.787	
722000.063	4294287.336	5753	11-Jun-15	BORE HOLE 2 061115.S	422919.596	
721990.486	4294300.19	5755	11-Jun-15	BORE HOLE 2 061115.S	422673.72	
721996.469	4294294.817	5761	11-Jun-15	BORE HOLE 2 061115.S	422857.611	
721999.216	4294291.678	5767	11-Jun-15	BORE HOLE 2 061115.S	422710.753	
721999.206	4294291.722	5773	11-Jun-15	BORE HOLE 2 061115.S	422754.631	
721995.106	4294295.398	5781	11-Jun-15	BORE HOLE 2 061115.S	423077.73	
721999.196	4294291.967	5792	11-Jun-15	BORE HOLE 2 061115.S	422724.537	
722002.419	4294287.434	5796	11-Jun-15	BORE HOLE 2 061115.S	422763.665	
721995.017	4294295.562	5797	11-Jun-15	BORE HOLE 2 061115.S	423076.598	
721989.397	4294306.415	5802	11-Jun-15	BORE HOLE 2 061115.S	422801.482	
721998.302	4294291.942	5807	11-Jun-15	BORE HOLE 2 061115.S	422851.815	
721999.425	4294291.766	5808	11-Jun-15	BORE HOLE 2 061115.S	422751.673	
721990.158	4294304.704	5814	11-Jun-15	BORE HOLE 2 061115.S	422877.488	
721997.806	4294293.958	5818	11-Jun-15	BORE HOLE 2 061115.S	422696.612	
721994.854	4294295.5	5829	11-Jun-15	BORE HOLE 2 061115.S	423074.594	
721994.087	4294299.774	5834	11-Jun-15	BORE HOLE 2 061115.S	422787.67	
721991.502	4294302.412	5849	11-Jun-15	BORE HOLE 2 061115.S	422657.849	
721992.22	4294301.508	5850	11-Jun-15	BORE HOLE 2 061115.S	422669.688	
721992.801	4294301.47	5851	11-Jun-15	BORE HOLE 2 061115.S	422791.594	
721999.338	4294291.794	5853	11-Jun-15	BORE HOLE 2 061115.S	422716.696	
722001.422	4294288.329	5856	11-Jun-15	BORE HOLE 2 061115.S	422768.671	
721996.3	4294296.245	5861	11-Jun-15	BORE HOLE 2 061115.S	422689.699	
721999.147	4294291.951	5863	11-Jun-15	BORE HOLE 2 061115.S	422722.697	
721990.758	4294299.862	5867	11-Jun-15	BORE HOLE 2 061115.S	422675.848	
721999.46	4294291.748	5885	11-Jun-15	BORE HOLE 2 061115.S	422750.624	
721999.403	4294291.741	5886	11-Jun-15	BORE HOLE 2 061115.S	422731.731	
721996.095	4294295.316	5895	11-Jun-15	BORE HOLE 2 061115.S	422858.72	
721988.846	4294306.236	5896	11-Jun-15	BORE HOLE 2 061115.S	422802.74	
721999.398	4294291.752	5897	11-Jun-15	BORE HOLE 2 061115.S	422729.84	
721996.194	4294296.902	5898	11-Jun-15	BORE HOLE 2 061115.S	422782.44	
721999.403	4294291.748	5914	11-Jun-15	BORE HOLE 2 061115.S	422733.693	
721992.521	4294301.779	5914	11-Jun-15	BORE HOLE 2 061115.S	422792.663	
721999.363	4294291.741	5915	11-Jun-15	BORE HOLE 2 061115.S	422713.816	
721996.048	4294296.729	5940	11-Jun-15	BORE HOLE 2 061115.S	422688.69	
721997.091	4294294.828	5947	11-Jun-15	BORE HOLE 2 061115.S	422693.673	
721993.378	4294300.599	5959	11-Jun-15	BORE HOLE 2 061115.S	422680.591	
721999.369	4294287.045	5964	11-Jun-15	BORE HOLE 2 061115.S	422996.372	
721991.473	4294302.469	5969	11-Jun-15	BORE HOLE 2 061115.S	422660.6	
721993.742	4294300.252	5974	11-Jun-15	BORE HOLE 2 061115.S	422788.675	
721998.671	4294287.434	5981	11-Jun-15	BORE HOLE 2 061115.S	423003.618	
721999.203	4294291.875	5986	11-Jun-15	BORE HOLE 2 061115.S	422719.626	
721999.259	4294291.684	5989	11-Jun-15	BORE HOLE 2 061115.S	422711.85	

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721994.982	4294298.635	5995	11-Jun-15	BORE HOLE 2 061115.S	422684.7	
721999.673	4294286.361	5995	11-Jun-15	BORE HOLE 2 061115.S	422997.493	
722000.758	4294289.3	5996	11-Jun-15	BORE HOLE 2 061115.S	422770.547	
721998.559	4294289.459	6008	11-Jun-15	BORE HOLE 2 061115.S	422930.599	
722001.668	4294288.476	6015	11-Jun-15	BORE HOLE 2 061115.S	422761.531	
722001.811	4294287.771	6016	11-Jun-15	BORE HOLE 2 061115.S	422767.617	
721990.891	4294304.248	6025	11-Jun-15	BORE HOLE 2 061115.S	422797.594	
721999.434	4294291.736	6048	11-Jun-15	BORE HOLE 2 061115.S	422749.624	
721991.332	4294302.992	6055	11-Jun-15	BORE HOLE 2 061115.S	422873.736	
721998.187	4294290.12	6063	11-Jun-15	BORE HOLE 2 061115.S	422931.667	
721989.454	4294305.927	6068	11-Jun-15	BORE HOLE 2 061115.S	422880.509	
721997.933	4294294.055	6085	11-Jun-15	BORE HOLE 2 061115.S	422698.661	
721999.58	4294291.208	6085	11-Jun-15	BORE HOLE 2 061115.S	422756.475	
721997.34	4294294.45	6090	11-Jun-15	BORE HOLE 2 061115.S	422694.69	
721997.6	4294293.107	6098	11-Jun-15	BORE HOLE 2 061115.S	422853.836	
721990.411	4294304.965	6099	11-Jun-15	BORE HOLE 2 061115.S	422798.736	
721991.664	4294302.998	6101	11-Jun-15	BORE HOLE 2 061115.S	422795.623	
721990.12	4294305.433	6115	11-Jun-15	BORE HOLE 2 061115.S	422799.598	
721996.644	4294295.564	6126	11-Jun-15	BORE HOLE 2 061115.S	422691.687	
721999.141	4294291.967	6128	11-Jun-15	BORE HOLE 2 061115.S	422723.741	
721996.509	4294296.416	6130	11-Jun-15	BORE HOLE 2 061115.S	422781.68	
722000.088	4294290.706	6131	11-Jun-15	BORE HOLE 2 061115.S	422772.666	
721992.291	4294301.977	6168	11-Jun-15	BORE HOLE 2 061115.S	422667.701	
721998.945	4294292.726	6170	11-Jun-15	BORE HOLE 2 061115.S	422775.668	
721999.357	4294291.789	6177	11-Jun-15	BORE HOLE 2 061115.S	422739.509	
722002.359	4294287.202	6177	11-Jun-15	BORE HOLE 2 061115.S	422764.483	
721999.34	4294292.058	6203	11-Jun-15	BORE HOLE 2 061115.S	422774.669	
721999.247	4294291.674	6239	11-Jun-15	BORE HOLE 2 061115.S	422708.586	
722000.449	4294289.977	6283	11-Jun-15	BORE HOLE 2 061115.S	422771.627	
721999.534	4294290.481	6297	11-Jun-15	BORE HOLE 2 061115.S	422833.683	
721999.227	4294291.649	6300	11-Jun-15	BORE HOLE 2 061115.S	422709.602	
721998.524	4294293.339	6312	11-Jun-15	BORE HOLE 2 061115.S	422776.661	
721999.528	4294291.849	6336	11-Jun-15	BORE HOLE 2 061115.S	422705.753	
722000.523	4294290.167	6365	11-Jun-15	BORE HOLE 2 061115.S	422758.658	
721998.656	4294292.741	6379	11-Jun-15	BORE HOLE 2 061115.S	422701.674	
721999.001	4294292.332	6395	11-Jun-15	BORE HOLE 2 061115.S	422702.691	
721996.83	4294295.222	6423	11-Jun-15	BORE HOLE 2 061115.S	422692.681	
721998.047	4294293.793	6437	11-Jun-15	BORE HOLE 2 061115.S	422699.676	
721995.855	4294297.111	6439	11-Jun-15	BORE HOLE 2 061115.S	422687.935	
721999.378	4294291.766	6456	11-Jun-15	BORE HOLE 2 061115.S	422736.62	
721997.644	4294294.036	6472	11-Jun-15	BORE HOLE 2 061115.S	422695.808	
721999.468	4294291.805	6474	11-Jun-15	BORE HOLE 2 061115.S	422706.664	
721993.052	4294301.106	6485	11-Jun-15	BORE HOLE 2 061115.S	422790.665	
721996.944	4294295.766	6519	11-Jun-15	BORE HOLE 2 061115.S	422780.635	
721991.362	4294303.506	6547	11-Jun-15	BORE HOLE 2 061115.S	422796.469	
721999.372	4294291.768	6613	11-Jun-15	BORE HOLE 2 061115.S	422714.481	
721997.952	4294292.538	6632	11-Jun-15	BORE HOLE 2 061115.S	422852.733	

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721999.404	4294291.744	6692	11-Jun-15	BORE HOLE 2 061115.S	422732.608	
721999.365	4294291.779	6711	11-Jun-15	BORE HOLE 2 061115.S	422738.408	
721997.348	4294293.455	6714	11-Jun-15	BORE HOLE 2 061115.S	422854.742	
721997.303	4294295.179	6758	11-Jun-15	BORE HOLE 2 061115.S	422779.7	
721992.271	4294302.093	6777	11-Jun-15	BORE HOLE 2 061115.S	422793.685	
721995.366	4294298.175	6785	11-Jun-15	BORE HOLE 2 061115.S	422784.548	
721995.192	4294298.313	6808	11-Jun-15	BORE HOLE 2 061115.S	422685.698	
721995.725	4294297.652	6862	11-Jun-15	BORE HOLE 2 061115.S	422783.635	
721999.343	4294291.724	6958	11-Jun-15	BORE HOLE 2 061115.S	422707.698	
722001.204	4294289.122	7020	11-Jun-15	BORE HOLE 2 061115.S	422760.405	
721998.335	4294293.289	7039	11-Jun-15	BORE HOLE 2 061115.S	422700.695	
722002.164	4294287.188	7102	11-Jun-15	BORE HOLE 2 061115.S	422765.67	
721999.371	4294291.773	7164	11-Jun-15	BORE HOLE 2 061115.S	422737.652	
721991.984	4294302.494	7244	11-Jun-15	BORE HOLE 2 061115.S	422794.628	
722000.908	4294289.571	7321	11-Jun-15	BORE HOLE 2 061115.S	422759.658	
721993.405	4294300.73	7340	11-Jun-15	BORE HOLE 2 061115.S	422789.692	
721999.252	4294292.097	7538	11-Jun-15	BORE HOLE 2 061115.S	422703.684	
722000.062	4294290.711	7701	11-Jun-15	BORE HOLE 2 061115.S	422757.592	
721997.797	4294294.388	7834	11-Jun-15	BORE HOLE 2 061115.S	422778.415	
721999.681	4294291.407	7892	11-Jun-15	BORE HOLE 2 061115.S	422773.679	
721998.1	4294293.91	7938	11-Jun-15	BORE HOLE 2 061115.S	422777.663	
722002.042	4294287.415	8345	11-Jun-15	BORE HOLE 2 061115.S	422766.775	
721999.436	4294291.94	8544	11-Jun-15	BORE HOLE 2 061115.S	422704.849	
722129.73	4294199.713	4511	09-Jun-15	BORE HOLE 9 060915.S	248271.633	
722129.661	4294198.266	4557	09-Jun-15	BORE HOLE 9 060915.S	248259.382	
722129.548	4294198.923	4592	09-Jun-15	BORE HOLE 9 060915.S	248270.557	
722133.379	4294209.892	4602	09-Jun-15	BORE HOLE 9 060915.S	248192.751	
722131.411	4294196.233	4647	09-Jun-15	BORE HOLE 9 060915.S	248175.595	
722129.144	4294195.348	4725	09-Jun-15	BORE HOLE 9 060915.S	248262.598	
722129.24	4294196.011	4734	09-Jun-15	BORE HOLE 9 060915.S	248261.652	
722133.369	4294205.83	4792	09-Jun-15	BORE HOLE 9 060915.S	248141.514	
722129.917	4294201.414	4805	09-Jun-15	BORE HOLE 9 060915.S	248273.744	
722133.311	4294209.179	4808	09-Jun-15	BORE HOLE 9 060915.S	248191.717	
722136.279	4294213.093	4829	09-Jun-15	BORE HOLE 9 060915.S	247913.632	
722129.415	4294197.094	4843	09-Jun-15	BORE HOLE 9 060915.S	248260.619	
722131.427	4294196.967	4886	09-Jun-15	BORE HOLE 9 060915.S	248176.673	
722129.149	4294196.591	4886	09-Jun-15	BORE HOLE 9 060915.S	248267.507	
722129.855	4294198.946	4888	09-Jun-15	BORE HOLE 9 060915.S	248258.537	
722130.296	4294211.079	4893	09-Jun-15	BORE HOLE 9 060915.S	248321.414	
722136.637	4294211.302	4898	09-Jun-15	BORE HOLE 9 060915.S	247861.783	
722135.935	4294203.884	4945	09-Jun-15	BORE HOLE 9 060915.S	247873.726	
722130.876	4294214.104	4947	09-Jun-15	BORE HOLE 9 060915.S	248384.766	
722132.659	4294200.45	4952	09-Jun-15	BORE HOLE 9 060915.S	248155.688	
722133.173	4294208.427	4974	09-Jun-15	BORE HOLE 9 060915.S	248190.577	
722130.357	4294200.617	4976	09-Jun-15	BORE HOLE 9 060915.S	248256.594	
722132.88	4294203.395	4986	09-Jun-15	BORE HOLE 9 060915.S	248184.608	
722134.708	4294207.785	4988	09-Jun-15	BORE HOLE 9 060915.S	248047.679	

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722135.176	4294209.887	5016	09-Jun-15	BORE HOLE 9 060915.S	248088.542	
722130.011	4294202.386	5020	09-Jun-15	BORE HOLE 9 060915.S	248274.837	
722130.824	4294204.712	5032	09-Jun-15	BORE HOLE 9 060915.S	248251.697	
722134.73	4294210.664	5050	09-Jun-15	BORE HOLE 9 060915.S	248043.584	
722129.86	4294200.525	5050	09-Jun-15	BORE HOLE 9 060915.S	248272.653	
722129.38	4294198.153	5058	09-Jun-15	BORE HOLE 9 060915.S	248269.604	
722135.253	4294210.404	5064	09-Jun-15	BORE HOLE 9 060915.S	248089.47	
722134.899	4294211.313	5071	09-Jun-15	BORE HOLE 9 060915.S	248042.675	
722131.771	4294212.128	5072	09-Jun-15	BORE HOLE 9 060915.S	248286.789	
722136.093	4294208.083	5073	09-Jun-15	BORE HOLE 9 060915.S	247866.819	
722136.302	4294213.863	5078	09-Jun-15	BORE HOLE 9 060915.S	247914.792	
722132.83	4294204.313	5099	09-Jun-15	BORE HOLE 9 060915.S	248185.762	
722134.558	4294205.448	5104	09-Jun-15	BORE HOLE 9 060915.S	248051.689	
722135.793	4294208.5	5107	09-Jun-15	BORE HOLE 9 060915.S	247906.775	
722134.691	4294208.365	5109	09-Jun-15	BORE HOLE 9 060915.S	248046.753	
722133.232	4294211.292	5109	09-Jun-15	BORE HOLE 9 060915.S	248133.712	
722130.173	4294199.819	5116	09-Jun-15	BORE HOLE 9 060915.S	248257.509	
722132.419	4294200.537	5121	09-Jun-15	BORE HOLE 9 060915.S	248181.595	
722136.455	4294212.909	5135	09-Jun-15	BORE HOLE 9 060915.S	247858.773	
722133.398	4294210.534	5138	09-Jun-15	BORE HOLE 9 060915.S	248193.644	
722134.559	4294205.281	5143	09-Jun-15	BORE HOLE 9 060915.S	248052.567	
722135.21	4294212.075	5161	09-Jun-15	BORE HOLE 9 060915.S	248041.557	
722134.792	4294206.967	5168	09-Jun-15	BORE HOLE 9 060915.S	248048.812	
722130.333	4294211.899	5180	09-Jun-15	BORE HOLE 9 060915.S	248320.582	
722133.235	4294204.026	5207	09-Jun-15	BORE HOLE 9 060915.S	248144.725	
722135.904	4294206.206	5208	09-Jun-15	BORE HOLE 9 060915.S	247903.61	
722130.747	4294207.82	5211	09-Jun-15	BORE HOLE 9 060915.S	248281.619	
722136.622	4294211.649	5214	09-Jun-15	BORE HOLE 9 060915.S	247860.93	
722135.094	4294209.028	5224	09-Jun-15	BORE HOLE 9 060915.S	248087.434	
722132.938	4294205.086	5231	09-Jun-15	BORE HOLE 9 060915.S	248186.73	
722127.932	4294196.171	5245	09-Jun-15	BORE HOLE 9 060915.S	248342.639	
722135.05	4294208.517	5247	09-Jun-15	BORE HOLE 9 060915.S	248086.847	
722136.218	4294212.456	5251	09-Jun-15	BORE HOLE 9 060915.S	247912.693	
722135.904	4294206.989	5254	09-Jun-15	BORE HOLE 9 060915.S	247904.786	
722134.637	4294203.312	5262	09-Jun-15	BORE HOLE 9 060915.S	248056.76	
722134.562	4294209.836	5263	09-Jun-15	BORE HOLE 9 060915.S	248044.647	
722129.051	4294195.38	5271	09-Jun-15	BORE HOLE 9 060915.S	248265.685	
722130.334	4294206.066	5278	09-Jun-15	BORE HOLE 9 060915.S	248279.359	
722133.383	4294206.257	5279	09-Jun-15	BORE HOLE 9 060915.S	248140.84	
722133.325	4294208.654	5280	09-Jun-15	BORE HOLE 9 060915.S	248137.499	
722136.455	4294212.434	5296	09-Jun-15	BORE HOLE 9 060915.S	247859.591	
722136.226	4294209.179	5302	09-Jun-15	BORE HOLE 9 060915.S	247865.04	
722130.836	4294214.145	5310	09-Jun-15	BORE HOLE 9 060915.S	248382.422	
722132.236	4294199.888	5317	09-Jun-15	BORE HOLE 9 060915.S	248180.714	
722133.362	4294206.963	5318	09-Jun-15	BORE HOLE 9 060915.S	248139.797	
722131.599	4294197.638	5328	09-Jun-15	BORE HOLE 9 060915.S	248177.544	
722129.089	4294195.066	5335	09-Jun-15	BORE HOLE 9 060915.S	248263.45	

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722130.655	4294203.36	5336	09-Jun-15	BORE HOLE 9 060915.S	248253.541	
722130.851	4294214.145	5342	09-Jun-15	BORE HOLE 9 060915.S	248383.637	
722132.246	4294198.058	5351	09-Jun-15	BORE HOLE 9 060915.S	248160.572	
722133.062	4294203.142	5355	09-Jun-15	BORE HOLE 9 060915.S	248146.523	
722130.759	4294204.217	5380	09-Jun-15	BORE HOLE 9 060915.S	248252.514	
722134.592	4294205.737	5381	09-Jun-15	BORE HOLE 9 060915.S	248050.844	
722134.533	4294202.482	5382	09-Jun-15	BORE HOLE 9 060915.S	248057.744	
722134.602	4294205.112	5383	09-Jun-15	BORE HOLE 9 060915.S	248053.664	
722130.969	4294205.195	5386	09-Jun-15	BORE HOLE 9 060915.S	248250.595	
722130.889	4294214.076	5392	09-Jun-15	BORE HOLE 9 060915.S	248385.429	
722136.198	4294208.662	5405	09-Jun-15	BORE HOLE 9 060915.S	247865.857	
722136.47	4294210.26	5413	09-Jun-15	BORE HOLE 9 060915.S	247863.483	
722133.051	4294206.636	5415	09-Jun-15	BORE HOLE 9 060915.S	248188.595	
722129.254	4294197.405	5418	09-Jun-15	BORE HOLE 9 060915.S	248268.718	
722133.352	4294209.182	5440	09-Jun-15	BORE HOLE 9 060915.S	248136.72	
722134.552	4294209.227	5443	09-Jun-15	BORE HOLE 9 060915.S	248045.433	
722129.096	4294196.094	5447	09-Jun-15	BORE HOLE 9 060915.S	248266.741	
722135.871	4294204.605	5471	09-Jun-15	BORE HOLE 9 060915.S	247872.547	
722132.482	4294201.226	5471	09-Jun-15	BORE HOLE 9 060915.S	248150.646	
722135.535	4294203.399	5472	09-Jun-15	BORE HOLE 9 060915.S	247899.607	
722134.852	4294207.129	5475	09-Jun-15	BORE HOLE 9 060915.S	248084.956	
722132.023	4294212.086	5477	09-Jun-15	BORE HOLE 9 060915.S	248241.732	
722133.091	4294207.531	5483	09-Jun-15	BORE HOLE 9 060915.S	248189.495	
722132.444	4294199.736	5485	09-Jun-15	BORE HOLE 9 060915.S	248156.872	
722129.145	4294201.11	5487	09-Jun-15	BORE HOLE 9 060915.S	248331.542	
722135.565	4294211.843	5500	09-Jun-15	BORE HOLE 9 060915.S	248091.8	
722130.417	4294206.877	5504	09-Jun-15	BORE HOLE 9 060915.S	248280.464	
722135.843	4294207.759	5505	09-Jun-15	BORE HOLE 9 060915.S	247905.873	
722133.033	4294205.839	5507	09-Jun-15	BORE HOLE 9 060915.S	248187.713	
722135.778	4294203.121	5519	09-Jun-15	BORE HOLE 9 060915.S	247874.824	
722134.686	4294204.588	5531	09-Jun-15	BORE HOLE 9 060915.S	248081.6	
722130.056	4294203.248	5531	09-Jun-15	BORE HOLE 9 060915.S	248275.724	
722137.116	4294215.522	5535	09-Jun-15	BORE HOLE 9 060915.S	247824.631	
722135.787	4294209.289	5535	09-Jun-15	BORE HOLE 9 060915.S	247907.854	
722131.971	4294199.034	5546	09-Jun-15	BORE HOLE 9 060915.S	248179.462	
722130.399	4294212.768	5546	09-Jun-15	BORE HOLE 9 060915.S	248319.679	
722133.308	4294204.661	5551	09-Jun-15	BORE HOLE 9 060915.S	248143.699	
722136.706	4294210.077	5560	09-Jun-15	BORE HOLE 9 060915.S	247816.582	
722130.781	4294214.188	5561	09-Jun-15	BORE HOLE 9 060915.S	248380.56	
722131.717	4294195.937	5569	09-Jun-15	BORE HOLE 9 060915.S	248174.751	
722129.112	4294199.893	5569	09-Jun-15	BORE HOLE 9 060915.S	248332.665	
722136.016	4294205.609	5575	09-Jun-15	BORE HOLE 9 060915.S	247870.885	
722128.106	4294195.591	5577	09-Jun-15	BORE HOLE 9 060915.S	248341.452	
722132.158	4294213.106	5578	09-Jun-15	BORE HOLE 9 060915.S	248240.494	
722133.212	4294211.941	5590	09-Jun-15	BORE HOLE 9 060915.S	248132.725	
722131.538	4294210.434	5590	09-Jun-15	BORE HOLE 9 060915.S	248284.679	
722135.845	4294205.741	5591	09-Jun-15	BORE HOLE 9 060915.S	247902.858	

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722136.581	4294210.713	5597	09-Jun-15	BORE HOLE 9 060915.S	247862.849	
722133.439	4294211.29	5598	09-Jun-15	BORE HOLE 9 060915.S	248194.654	
722132.369	4294214.652	5601	09-Jun-15	BORE HOLE 9 060915.S	248290.478	
722135.431	4294212.673	5603	09-Jun-15	BORE HOLE 9 060915.S	248040.733	
722134.639	4294204.264	5609	09-Jun-15	BORE HOLE 9 060915.S	248055.608	
722129.007	4294195.003	5611	09-Jun-15	BORE HOLE 9 060915.S	248264.787	
722132.409	4294198.806	5612	09-Jun-15	BORE HOLE 9 060915.S	248158.541	
722132.756	4294201.997	5623	09-Jun-15	BORE HOLE 9 060915.S	248148.7	
722132.789	4294202.434	5637	09-Jun-15	BORE HOLE 9 060915.S	248147.743	
722133.347	4294205.233	5643	09-Jun-15	BORE HOLE 9 060915.S	248142.626	
722135.856	4294213.076	5644	09-Jun-15	BORE HOLE 9 060915.S	248093.624	
722135.713	4294204.909	5647	09-Jun-15	BORE HOLE 9 060915.S	247901.761	
722132.183	4294196.078	5647	09-Jun-15	BORE HOLE 9 060915.S	248173.651	
722134.731	4294206.493	5659	09-Jun-15	BORE HOLE 9 060915.S	248049.477	
722136.762	4294210.859	5662	09-Jun-15	BORE HOLE 9 060915.S	247817.758	
722129.147	4294198.156	5664	09-Jun-15	BORE HOLE 9 060915.S	248334.523	
722133.542	4294212.021	5669	09-Jun-15	BORE HOLE 9 060915.S	248195.541	
722130.135	4294204.012	5676	09-Jun-15	BORE HOLE 9 060915.S	248276.545	
722135.628	4294204.186	5680	09-Jun-15	BORE HOLE 9 060915.S	247900.725	
722132.251	4294196.416	5680	09-Jun-15	BORE HOLE 9 060915.S	248172.727	
722129.167	4294199.005	5682	09-Jun-15	BORE HOLE 9 060915.S	248333.584	
722136.181	4294211.694	5683	09-Jun-15	BORE HOLE 9 060915.S	247911.523	
722133.316	4294210.41	5694	09-Jun-15	BORE HOLE 9 060915.S	248134.853	
722134.61	4294204.742	5705	09-Jun-15	BORE HOLE 9 060915.S	248054.807	
722136.009	4294207.559	5711	09-Jun-15	BORE HOLE 9 060915.S	247867.773	
722129.071	4294197.349	5721	09-Jun-15	BORE HOLE 9 060915.S	248335.451	
722132.585	4294201.521	5723	09-Jun-15	BORE HOLE 9 060915.S	248182.661	
722136.005	4294206.308	5724	09-Jun-15	BORE HOLE 9 060915.S	247869.721	
722134.57	4294203.993	5726	09-Jun-15	BORE HOLE 9 060915.S	248080.756	
722130.903	4294214.047	5726	09-Jun-15	BORE HOLE 9 060915.S	248386.56	
722133.185	4294203.519	5734	09-Jun-15	BORE HOLE 9 060915.S	248145.661	
722131.939	4294209.607	5735	09-Jun-15	BORE HOLE 9 060915.S	248244.443	
722135.722	4294212.565	5741	09-Jun-15	BORE HOLE 9 060915.S	248092.866	
722134.956	4294207.773	5742	09-Jun-15	BORE HOLE 9 060915.S	248085.768	
722132.114	4294214.048	5745	09-Jun-15	BORE HOLE 9 060915.S	248289.553	
722135.692	4294202.548	5752	09-Jun-15	BORE HOLE 9 060915.S	247875.716	
722134.417	4294203.233	5754	09-Jun-15	BORE HOLE 9 060915.S	248079.597	
722135.863	4294210.006	5761	09-Jun-15	BORE HOLE 9 060915.S	247909.038	
722131.987	4294211.098	5773	09-Jun-15	BORE HOLE 9 060915.S	248242.86	
722134.736	4294205.213	5774	09-Jun-15	BORE HOLE 9 060915.S	248082.595	
722136.014	4294206.865	5777	09-Jun-15	BORE HOLE 9 060915.S	247868.797	
722132.423	4294199.165	5778	09-Jun-15	BORE HOLE 9 060915.S	248157.713	
722130.257	4294204.981	5780	09-Jun-15	BORE HOLE 9 060915.S	248277.742	
722131.008	4294208.731	5781	09-Jun-15	BORE HOLE 9 060915.S	248282.701	
722128.492	4294194.97	5781	09-Jun-15	BORE HOLE 9 060915.S	248338.689	
722136.375	4294214.464	5782	09-Jun-15	BORE HOLE 9 060915.S	247915.716	
722132.756	4294202.49	5784	09-Jun-15	BORE HOLE 9 060915.S	248183.597	

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722136.093	4294213.769	5791	09-Jun-15	BORE HOLE 9 060915.S	248094.782	
722131.814	4294212.863	5808	09-Jun-15	BORE HOLE 9 060915.S	248287.718	
722132.364	4294198.428	5819	09-Jun-15	BORE HOLE 9 060915.S	248159.666	
722134.793	4294206.102	5827	09-Jun-15	BORE HOLE 9 060915.S	248083.745	
722131.811	4294198.457	5832	09-Jun-15	BORE HOLE 9 060915.S	248178.639	
722131.665	4294211.168	5844	09-Jun-15	BORE HOLE 9 060915.S	248285.58	
722135.367	4294211.116	5871	09-Jun-15	BORE HOLE 9 060915.S	248090.651	
722135.965	4294205.255	5873	09-Jun-15	BORE HOLE 9 060915.S	247871.489	
722129.213	4294202.071	5875	09-Jun-15	BORE HOLE 9 060915.S	248330.59	
722135.916	4294210.52	5888	09-Jun-15	BORE HOLE 9 060915.S	247909.856	
722133.793	4294213.018	5888	09-Jun-15	BORE HOLE 9 060915.S	248196.756	
722132.158	4294197.689	5890	09-Jun-15	BORE HOLE 9 060915.S	248161.579	
722131.263	4294209.468	5896	09-Jun-15	BORE HOLE 9 060915.S	248283.513	
722131.945	4294213.557	5907	09-Jun-15	BORE HOLE 9 060915.S	248288.757	
722135.581	4294201.806	5913	09-Jun-15	BORE HOLE 9 060915.S	247876.787	
722130.73	4294214.425	5921	09-Jun-15	BORE HOLE 9 060915.S	248372.46	
722133.372	4294209.901	5925	09-Jun-15	BORE HOLE 9 060915.S	248135.618	
722130.743	4294214.234	5926	09-Jun-15	BORE HOLE 9 060915.S	248379.437	
722130.159	4294209.793	5932	09-Jun-15	BORE HOLE 9 060915.S	248322.596	
722131.708	4294208.734	5934	09-Jun-15	BORE HOLE 9 060915.S	248245.596	
722134.317	4294196.984	5938	09-Jun-15	BORE HOLE 9 060915.S	248066.834	
722132.654	4294201.709	5953	09-Jun-15	BORE HOLE 9 060915.S	248149.535	
722132.251	4294197.188	5962	09-Jun-15	BORE HOLE 9 060915.S	248168.835	
722132.008	4294210.362	5970	09-Jun-15	BORE HOLE 9 060915.S	248243.598	
722136.771	4294213.435	5972	09-Jun-15	BORE HOLE 9 060915.S	247821.634	
722132.246	4294197.242	5972	09-Jun-15	BORE HOLE 9 060915.S	248167.704	
722130.073	4294208.893	5977	09-Jun-15	BORE HOLE 9 060915.S	248323.536	
722127.726	4294196.537	5987	09-Jun-15	BORE HOLE 9 060915.S	248343.369	
722129.414	4294205.06	5991	09-Jun-15	BORE HOLE 9 060915.S	248327.695	
722137.003	4294214.875	5999	09-Jun-15	BORE HOLE 9 060915.S	247823.628	
722131.3	4294207.354	6002	09-Jun-15	BORE HOLE 9 060915.S	248247.455	
722136.543	4294208.159	6026	09-Jun-15	BORE HOLE 9 060915.S	247813.591	
722136.102	4294211.133	6049	09-Jun-15	BORE HOLE 9 060915.S	247910.739	
722131.889	4294193.139	6123	09-Jun-15	BORE HOLE 9 060915.S	247688.792	
722131.106	4294205.75	6123	09-Jun-15	BORE HOLE 9 060915.S	248249.622	
722132.707	4294200.875	6125	09-Jun-15	BORE HOLE 9 060915.S	248154.499	
722134.101	4294215.011	6129	09-Jun-15	BORE HOLE 9 060915.S	248199.482	
722136.5	4294213.497	6135	09-Jun-15	BORE HOLE 9 060915.S	247857.711	
722128.872	4294195.81	6136	09-Jun-15	BORE HOLE 9 060915.S	248337.504	
722132.135	4294197.524	6148	09-Jun-15	BORE HOLE 9 060915.S	248162.635	
722132.594	4294216.576	6157	09-Jun-15	BORE HOLE 9 060915.S	248234.733	
722133.367	4294212.885	6161	09-Jun-15	BORE HOLE 9 060915.S	248131.409	
722132.121	4294197.291	6166	09-Jun-15	BORE HOLE 9 060915.S	248164.734	
722130.901	4294214.04	6168	09-Jun-15	BORE HOLE 9 060915.S	248387.7	
722133.505	4294197.694	6175	09-Jun-15	BORE HOLE 9 060915.S	248069.649	
722132.149	4294214.271	6180	09-Jun-15	BORE HOLE 9 060915.S	248238.75	
722132.776	4294217.7	6186	09-Jun-15	BORE HOLE 9 060915.S	248230.74	

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722136.851	4294214.183	6199	09-Jun-15	BORE HOLE 9 060915.S	247822.573	
722132.582	4294201.023	6205	09-Jun-15	BORE HOLE 9 060915.S	248152.531	
722130.441	4294201.404	6229	09-Jun-15	BORE HOLE 9 060915.S	248255.66	
722130.328	4294205.577	6236	09-Jun-15	BORE HOLE 9 060915.S	248278.602	
722130.815	4294214.161	6240	09-Jun-15	BORE HOLE 9 060915.S	248381.446	
722134.512	4294196.745	6248	09-Jun-15	BORE HOLE 9 060915.S	247886.751	
722132.491	4294201.028	6266	09-Jun-15	BORE HOLE 9 060915.S	248151.466	
722133.934	4294213.622	6267	09-Jun-15	BORE HOLE 9 060915.S	248197.505	
722136.826	4294211.579	6282	09-Jun-15	BORE HOLE 9 060915.S	247818.855	
722136.638	4294208.933	6285	09-Jun-15	BORE HOLE 9 060915.S	247814.914	
722130.541	4294214.24	6287	09-Jun-15	BORE HOLE 9 060915.S	248371.606	
722130.523	4294213.837	6292	09-Jun-15	BORE HOLE 9 060915.S	248318.517	
722133.463	4294214.063	6296	09-Jun-15	BORE HOLE 9 060915.S	248129.515	
722136.248	4294214.217	6302	09-Jun-15	BORE HOLE 9 060915.S	248095.473	
722132.685	4294219.453	6303	09-Jun-15	BORE HOLE 9 060915.S	248224.734	
722129.168	4294203.122	6306	09-Jun-15	BORE HOLE 9 060915.S	248329.507	
722130.736	4294214.25	6307	09-Jun-15	BORE HOLE 9 060915.S	248378.515	
722132.272	4294196.92	6308	09-Jun-15	BORE HOLE 9 060915.S	248171.596	
722130.53	4294202.301	6316	09-Jun-15	BORE HOLE 9 060915.S	248254.679	
722133.121	4294216.81	6330	09-Jun-15	BORE HOLE 9 060915.S	248294.719	
722128.29	4294194.934	6334	09-Jun-15	BORE HOLE 9 060915.S	248339.582	
722136.461	4294207.668	6346	09-Jun-15	BORE HOLE 9 060915.S	247812.75	
722136.677	4294209.394	6346	09-Jun-15	BORE HOLE 9 060915.S	247815.612	
722133.699	4294197.332	6350	09-Jun-15	BORE HOLE 9 060915.S	248068.769	
722134.693	4294197.504	6367	09-Jun-15	BORE HOLE 9 060915.S	247889.656	
722131.198	4294206.48	6368	09-Jun-15	BORE HOLE 9 060915.S	248248.64	
722136.796	4294212.646	6370	09-Jun-15	BORE HOLE 9 060915.S	247820.66	
722136.46	4294206.288	6375	09-Jun-15	BORE HOLE 9 060915.S	247810.699	
722135.563	4294213.289	6381	09-Jun-15	BORE HOLE 9 060915.S	248039.836	
722134.916	4294196.624	6395	09-Jun-15	BORE HOLE 9 060915.S	247885.605	
722133.45	4294213.346	6404	09-Jun-15	BORE HOLE 9 060915.S	248130.703	
722132.688	4294215.452	6406	09-Jun-15	BORE HOLE 9 060915.S	248291.656	
722136.426	4294205.472	6421	09-Jun-15	BORE HOLE 9 060915.S	247809.714	
722136.509	4294215.175	6443	09-Jun-15	BORE HOLE 9 060915.S	247916.799	
722128.957	4294196.48	6443	09-Jun-15	BORE HOLE 9 060915.S	248336.606	
722134.271	4294197.893	6460	09-Jun-15	BORE HOLE 9 060915.S	248064.657	
722136.358	4294201.784	6471	09-Jun-15	BORE HOLE 9 060915.S	247804.786	
722135.271	4294199.301	6483	09-Jun-15	BORE HOLE 9 060915.S	247893.045	
722131.472	4294208.003	6487	09-Jun-15	BORE HOLE 9 060915.S	248246.595	
722132.214	4294197.274	6490	09-Jun-15	BORE HOLE 9 060915.S	248166.644	
722129.232	4294204.074	6506	09-Jun-15	BORE HOLE 9 060915.S	248328.589	
722132.08	4294197.366	6547	09-Jun-15	BORE HOLE 9 060915.S	248163.661	
722134.172	4294197.107	6562	09-Jun-15	BORE HOLE 9 060915.S	248067.577	
722128.199	4294202.735	6582	09-Jun-15	BORE HOLE 9 060915.S	248353.441	
722138.119	4294223.773	6602	09-Jun-15	BORE HOLE 9 060915.S	247838.879	
722132.252	4294214.988	6602	09-Jun-15	BORE HOLE 9 060915.S	248237.626	
722132.718	4294218.048	6617	09-Jun-15	BORE HOLE 9 060915.S	248229.726	

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722129.946	4294207.979	6632	09-Jun-15	BORE HOLE 9 060915.S	248324.696	
722133.295	4294207.834	6633	09-Jun-15	BORE HOLE 9 060915.S	248138.606	
722130.918	4294214.052	6672	09-Jun-15	BORE HOLE 9 060915.S	248388.563	
722131.28	4294193.875	6682	09-Jun-15	BORE HOLE 9 060915.S	247717.68	
722133.064	4294220.843	6688	09-Jun-15	BORE HOLE 9 060915.S	248221.342	
722136.334	4294203.246	6689	09-Jun-15	BORE HOLE 9 060915.S	247806.744	
722135.487	4294200.447	6693	09-Jun-15	BORE HOLE 9 060915.S	247878.849	
722132.638	4294219.206	6705	09-Jun-15	BORE HOLE 9 060915.S	248225.446	
722128.152	4294195.314	6713	09-Jun-15	BORE HOLE 9 060915.S	248340.79	
722131.226	4294217.665	6724	09-Jun-15	BORE HOLE 9 060915.S	248311.415	
722132.922	4294215.981	6731	09-Jun-15	BORE HOLE 9 060915.S	248292.749	
722134.121	4294217.021	6738	09-Jun-15	BORE HOLE 9 060915.S	248202.703	
722132.676	4294201.001	6741	09-Jun-15	BORE HOLE 9 060915.S	248153.648	
722130.743	4294214.217	6749	09-Jun-15	BORE HOLE 9 060915.S	248377.727	
722132.627	4294218.532	6756	09-Jun-15	BORE HOLE 9 060915.S	248227.734	
722134.892	4294198.039	6782	09-Jun-15	BORE HOLE 9 060915.S	247890.782	
722135.647	4294194.095	6783	09-Jun-15	BORE HOLE 9 060915.S	247792.844	
722132.135	4294213.58	6795	09-Jun-15	BORE HOLE 9 060915.S	248239.845	
722135.236	4294199.054	6800	09-Jun-15	BORE HOLE 9 060915.S	247880.97	
722131.267	4294193.831	6811	09-Jun-15	BORE HOLE 9 060915.S	247716.629	
722131.048	4294216.991	6811	09-Jun-15	BORE HOLE 9 060915.S	248312.691	
722133.369	4294221.485	6817	09-Jun-15	BORE HOLE 9 060915.S	248219.593	
722128.3	4294204.545	6824	09-Jun-15	BORE HOLE 9 060915.S	248355.486	
722134.718	4294219.081	6825	09-Jun-15	BORE HOLE 9 060915.S	248120.776	
722135.666	4294197.181	6837	09-Jun-15	BORE HOLE 9 060915.S	247785.867	
722132.326	4294215.486	6849	09-Jun-15	BORE HOLE 9 060915.S	248236.673	
722132.854	4294219.972	6853	09-Jun-15	BORE HOLE 9 060915.S	248223.63	
722131.855	4294193.111	6855	09-Jun-15	BORE HOLE 9 060915.S	247687.591	
722134.958	4294196.918	6862	09-Jun-15	BORE HOLE 9 060915.S	247884.604	
722134.003	4294199.923	6863	09-Jun-15	BORE HOLE 9 060915.S	248073.599	
722133.491	4294221.969	6867	09-Jun-15	BORE HOLE 9 060915.S	248218.883	
722132.484	4294216.087	6879	09-Jun-15	BORE HOLE 9 060915.S	248235.534	
722131.844	4294193.09	6902	09-Jun-15	BORE HOLE 9 060915.S	247686.425	
722137.204	4294219.896	6902	09-Jun-15	BORE HOLE 9 060915.S	248103.615	
722136.29	4294201.062	6924	09-Jun-15	BORE HOLE 9 060915.S	247803.734	
722135.654	4294213.973	6926	09-Jun-15	BORE HOLE 9 060915.S	248038.694	
722135.992	4294196.866	6929	09-Jun-15	BORE HOLE 9 060915.S	247787.037	
722135.916	4294195.519	6929	09-Jun-15	BORE HOLE 9 060915.S	247795.768	
722133.073	4294218.288	6930	09-Jun-15	BORE HOLE 9 060915.S	248298.499	
722131.514	4294193.212	6935	09-Jun-15	BORE HOLE 9 060915.S	247695.055	
722133.445	4294214.503	6946	09-Jun-15	BORE HOLE 9 060915.S	248128.759	
722134.265	4294197.261	6955	09-Jun-15	BORE HOLE 9 060915.S	248065.598	
722130.946	4294193.77	6980	09-Jun-15	BORE HOLE 9 060915.S	247711.84	
722133.073	4294217.212	6982	09-Jun-15	BORE HOLE 9 060915.S	248295.558	
722130.125	4294212.669	6994	09-Jun-15	BORE HOLE 9 060915.S	248369.471	
722134.064	4294214.417	6997	09-Jun-15	BORE HOLE 9 060915.S	248198.592	
722136.879	4294212.02	7000	09-Jun-15	BORE HOLE 9 060915.S	247819.616	

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722131.243	4294193.911	7010	09-Jun-15	BORE HOLE 9 060915.S	247718.795	
722135.392	4294202.12	7014	09-Jun-15	BORE HOLE 9 060915.S	247897.686	
722135.648	4294198.661	7017	09-Jun-15	BORE HOLE 9 060915.S	247782.74	
722135.24	4294199.777	7021	09-Jun-15	BORE HOLE 9 060915.S	247893.823	
722134.478	4294201.163	7037	09-Jun-15	BORE HOLE 9 060915.S	248059.463	
722130.948	4294214.073	7038	09-Jun-15	BORE HOLE 9 060915.S	248389.513	
722130.83	4294214.316	7042	09-Jun-15	BORE HOLE 9 060915.S	248374.499	
722133.956	4294199.332	7055	09-Jun-15	BORE HOLE 9 060915.S	248072.621	
722135.247	4294200.2	7065	09-Jun-15	BORE HOLE 9 060915.S	247894.685	
722135.678	4294214.578	7067	09-Jun-15	BORE HOLE 9 060915.S	248037.668	
722134.375	4294200.406	7069	09-Jun-15	BORE HOLE 9 060915.S	248060.72	
722130.817	4294214.184	7070	09-Jun-15	BORE HOLE 9 060915.S	248375.743	
722130.78	4294214.145	7077	09-Jun-15	BORE HOLE 9 060915.S	248376.597	
722132.608	4294217.15	7078	09-Jun-15	BORE HOLE 9 060915.S	248233.565	
722132.991	4294216.273	7083	09-Jun-15	BORE HOLE 9 060915.S	248293.611	
722132.972	4294217.587	7085	09-Jun-15	BORE HOLE 9 060915.S	248296.445	
722133.999	4294200.592	7086	09-Jun-15	BORE HOLE 9 060915.S	248074.819	
722135.735	4294216.704	7087	09-Jun-15	BORE HOLE 9 060915.S	248034.609	
722131.111	4294193.613	7091	09-Jun-15	BORE HOLE 9 060915.S	247707.759	
722135.493	4294201.112	7092	09-Jun-15	BORE HOLE 9 060915.S	247877.721	
722135.192	4294198.645	7095	09-Jun-15	BORE HOLE 9 060915.S	247891.853	
722136.171	4294196.341	7102	09-Jun-15	BORE HOLE 9 060915.S	247787.793	
722133.664	4294215.702	7103	09-Jun-15	BORE HOLE 9 060915.S	248126.694	
722134.473	4294197.054	7110	09-Jun-15	BORE HOLE 9 060915.S	247888.599	
722131.926	4294193.157	7111	09-Jun-15	BORE HOLE 9 060915.S	247689.881	
722131.239	4294193.346	7113	09-Jun-15	BORE HOLE 9 060915.S	247700.885	
722136.076	4294199.709	7113	09-Jun-15	BORE HOLE 9 060915.S	247801.644	
722137.117	4294216.238	7115	09-Jun-15	BORE HOLE 9 060915.S	247825.755	
722128.119	4294202.182	7131	09-Jun-15	BORE HOLE 9 060915.S	248352.595	
722136.392	4294207.052	7143	09-Jun-15	BORE HOLE 9 060915.S	247811.748	
722134.496	4294201.853	7148	09-Jun-15	BORE HOLE 9 060915.S	248058.545	
722130.33	4294213.658	7148	09-Jun-15	BORE HOLE 9 060915.S	248370.597	
722135.622	4294198.558	7154	09-Jun-15	BORE HOLE 9 060915.S	247783.55	
722130.995	4294193.643	7172	09-Jun-15	BORE HOLE 9 060915.S	247708.862	
722136.482	4294221.198	7172	09-Jun-15	BORE HOLE 9 060915.S	247959.579	
722132.754	4294217.587	7173	09-Jun-15	BORE HOLE 9 060915.S	248231.679	
722129.812	4294207.279	7178	09-Jun-15	BORE HOLE 9 060915.S	248325.465	
722135.629	4294194.31	7185	09-Jun-15	BORE HOLE 9 060915.S	247793.665	
722133.73	4294222.683	7190	09-Jun-15	BORE HOLE 9 060915.S	248217.54	
722134.064	4294201.468	7207	09-Jun-15	BORE HOLE 9 060915.S	248076.609	
722138.12	4294223.446	7208	09-Jun-15	BORE HOLE 9 060915.S	247837.882	
722132.246	4294197.14	7215	09-Jun-15	BORE HOLE 9 060915.S	248169.486	
722129.871	4294211.736	7218	09-Jun-15	BORE HOLE 9 060915.S	248368.52	
722134.21	4294198.792	7243	09-Jun-15	BORE HOLE 9 060915.S	248063.545	
722131.162	4294193.552	7245	09-Jun-15	BORE HOLE 9 060915.S	247706.693	
722136.216	4294194.292	7247	09-Jun-15	BORE HOLE 9 060915.S	247790.6	
722136.486	4294221.384	7255	09-Jun-15	BORE HOLE 9 060915.S	247978.846	

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722134.134	4294215.799	7262	09-Jun-15	BORE HOLE 9 060915.S	248200.686	
722133.636	4294198.187	7282	09-Jun-15	BORE HOLE 9 060915.S	248070.773	
722131.942	4294193.178	7284	09-Jun-15	BORE HOLE 9 060915.S	247691.831	
722128.058	4294201.703	7284	09-Jun-15	BORE HOLE 9 060915.S	248351.462	
722136.51	4294221.232	7303	09-Jun-15	BORE HOLE 9 060915.S	247944.749	
722133.122	4294221.011	7314	09-Jun-15	BORE HOLE 9 060915.S	248220.742	
722136.988	4294216.314	7315	09-Jun-15	BORE HOLE 9 060915.S	247852.732	
722134.133	4294217.504	7324	09-Jun-15	BORE HOLE 9 060915.S	248203.502	
722135.873	4294193.834	7331	09-Jun-15	BORE HOLE 9 060915.S	247791.736	
722137.208	4294221.133	7346	09-Jun-15	BORE HOLE 9 060915.S	248105.472	
722136.591	4294221.343	7348	09-Jun-15	BORE HOLE 9 060915.S	247991.771	
722135.766	4294216.804	7353	09-Jun-15	BORE HOLE 9 060915.S	248020.914	
722132.275	4294197.11	7353	09-Jun-15	BORE HOLE 9 060915.S	248170.578	
722134.823	4294221.41	7363	09-Jun-15	BORE HOLE 9 060915.S	248212.699	
722131.717	4294219.313	7367	09-Jun-15	BORE HOLE 9 060915.S	248308.596	
722136.518	4294222.645	7386	09-Jun-15	BORE HOLE 9 060915.S	247932.78	
722131.601	4294218.838	7391	09-Jun-15	BORE HOLE 9 060915.S	248309.479	
722129.588	4294210.81	7391	09-Jun-15	BORE HOLE 9 060915.S	248367.474	
722134.133	4294216.351	7395	09-Jun-15	BORE HOLE 9 060915.S	248201.622	
722137.566	4294222.941	7406	09-Jun-15	BORE HOLE 9 060915.S	247928.881	
722134.579	4294218.396	7406	09-Jun-15	BORE HOLE 9 060915.S	248121.702	
722133.138	4294218.767	7407	09-Jun-15	BORE HOLE 9 060915.S	248301.627	
722132.653	4294217.406	7436	09-Jun-15	BORE HOLE 9 060915.S	248232.734	
722131.14	4294193.467	7439	09-Jun-15	BORE HOLE 9 060915.S	247704.713	
722130.643	4294215.167	7451	09-Jun-15	BORE HOLE 9 060915.S	248315.707	
722136.367	4294203.835	7462	09-Jun-15	BORE HOLE 9 060915.S	247807.552	
722135.292	4294200.798	7466	09-Jun-15	BORE HOLE 9 060915.S	247895.65	
722137.899	4294220.508	7474	09-Jun-15	BORE HOLE 9 060915.S	247845.737	
722131.057	4294193.762	7475	09-Jun-15	BORE HOLE 9 060915.S	247712.894	
722136.293	4294221.52	7481	09-Jun-15	BORE HOLE 9 060915.S	247934.851	
722137.74	4294221.468	7485	09-Jun-15	BORE HOLE 9 060915.S	247833.758	
722130.885	4294216.428	7492	09-Jun-15	BORE HOLE 9 060915.S	248313.606	
722137.984	4294222.186	7499	09-Jun-15	BORE HOLE 9 060915.S	247842.875	
722131.18	4294193.52	7500	09-Jun-15	BORE HOLE 9 060915.S	247705.9	
722135.465	4294202.848	7513	09-Jun-15	BORE HOLE 9 060915.S	247898.804	
722134.182	4294200.041	7527	09-Jun-15	BORE HOLE 9 060915.S	248061.616	
722131.949	4294193.188	7537	09-Jun-15	BORE HOLE 9 060915.S	247691.034	
722131.228	4294193.381	7538	09-Jun-15	BORE HOLE 9 060915.S	247701.712	
722135.082	4294198.696	7550	09-Jun-15	BORE HOLE 9 060915.S	247881.58	
722131.512	4294193.29	7553	09-Jun-15	BORE HOLE 9 060915.S	247695.81	
722134.373	4294196.85	7562	09-Jun-15	BORE HOLE 9 060915.S	247887.598	
722137.105	4294219.311	7567	09-Jun-15	BORE HOLE 9 060915.S	248102.732	
722131.158	4294193.778	7584	09-Jun-15	BORE HOLE 9 060915.S	247714.862	
722127.202	4294197.889	7585	09-Jun-15	BORE HOLE 9 060915.S	248345.707	
722137.142	4294218.724	7591	09-Jun-15	BORE HOLE 9 060915.S	248101.756	
722136.502	4294221.178	7600	09-Jun-15	BORE HOLE 9 060915.S	247949.741	
722133.28	4294218.903	7603	09-Jun-15	BORE HOLE 9 060915.S	248303.554	

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722136.487	4294221.263	7612	09-Jun-15	BORE HOLE 9 060915.S	247943.668	
722133.083	4294219.569	7615	09-Jun-15	BORE HOLE 9 060915.S	248305.51	
722136.026	4294198.377	7620	09-Jun-15	BORE HOLE 9 060915.S	247799.716	
722137.495	4294221.173	7625	09-Jun-15	BORE HOLE 9 060915.S	247926.604	
722133.526	4294215.198	7626	09-Jun-15	BORE HOLE 9 060915.S	248127.547	
722127.118	4294198.572	7626	09-Jun-15	BORE HOLE 9 060915.S	248346.59	
722136.511	4294221.322	7627	09-Jun-15	BORE HOLE 9 060915.S	247968.683	
722132.632	4294218.368	7629	09-Jun-15	BORE HOLE 9 060915.S	248228.779	
722136.298	4294221.4	7630	09-Jun-15	BORE HOLE 9 060915.S	247935.665	
722135.628	4294217.226	7654	09-Jun-15	BORE HOLE 9 060915.S	248012.694	
722127.422	4294197.164	7660	09-Jun-15	BORE HOLE 9 060915.S	248344.656	
722135.489	4294197.811	7668	09-Jun-15	BORE HOLE 9 060915.S	247784.733	
722137.305	4294218.474	7673	09-Jun-15	BORE HOLE 9 060915.S	247848.932	
722131.139	4294193.398	7674	09-Jun-15	BORE HOLE 9 060915.S	247703.028	
722131.158	4294193.433	7678	09-Jun-15	BORE HOLE 9 060915.S	247703.606	
722131.207	4294193.807	7686	09-Jun-15	BORE HOLE 9 060915.S	247715.666	
722136.088	4294219.995	7695	09-Jun-15	BORE HOLE 9 060915.S	248002.859	
722136.549	4294223.075	7703	09-Jun-15	BORE HOLE 9 060915.S	247931.815	
722136.481	4294221.422	7706	09-Jun-15	BORE HOLE 9 060915.S	247982.788	
722127.561	4294200.694	7707	09-Jun-15	BORE HOLE 9 060915.S	248349.466	
722131.539	4294193.315	7708	09-Jun-15	BORE HOLE 9 060915.S	247696.709	
722136.437	4294195.619	7715	09-Jun-15	BORE HOLE 9 060915.S	247788.907	
722134.956	4294221.836	7721	09-Jun-15	BORE HOLE 9 060915.S	248213.656	
722136.49	4294221.391	7724	09-Jun-15	BORE HOLE 9 060915.S	247979.46	
722136.476	4294221.395	7724	09-Jun-15	BORE HOLE 9 060915.S	247988.663	
722138.448	4294223.754	7740	09-Jun-15	BORE HOLE 9 060915.S	247839.722	
722135.714	4294215.153	7747	09-Jun-15	BORE HOLE 9 060915.S	248036.835	
722136.489	4294221.407	7751	09-Jun-15	BORE HOLE 9 060915.S	247980.793	
722131.874	4294193.248	7761	09-Jun-15	BORE HOLE 9 060915.S	247692.84	
722135.465	4294199.938	7763	09-Jun-15	BORE HOLE 9 060915.S	247879.677	
722137.22	4294223.083	7764	09-Jun-15	BORE HOLE 9 060915.S	248108.53	
722129.601	4294206.231	7764	09-Jun-15	BORE HOLE 9 060915.S	248326.589	
722130.591	4294214.591	7770	09-Jun-15	BORE HOLE 9 060915.S	248317.382	
722130.842	4294214.427	7770	09-Jun-15	BORE HOLE 9 060915.S	248373.365	
722133.907	4294216.307	7775	09-Jun-15	BORE HOLE 9 060915.S	248125.602	
722134.25	4294202.61	7778	09-Jun-15	BORE HOLE 9 060915.S	248078.467	
722137.157	4294222.484	7779	09-Jun-15	BORE HOLE 9 060915.S	248107.786	
722137.241	4294220.605	7785	09-Jun-15	BORE HOLE 9 060915.S	248104.678	
722133.031	4294218.776	7790	09-Jun-15	BORE HOLE 9 060915.S	248300.583	
722138.29	4294222.95	7796	09-Jun-15	BORE HOLE 9 060915.S	247841.655	
722136.337	4294202.496	7797	09-Jun-15	BORE HOLE 9 060915.S	247805.758	
722137.283	4294219.365	7799	09-Jun-15	BORE HOLE 9 060915.S	247923.795	
722136.406	4294221.319	7803	09-Jun-15	BORE HOLE 9 060915.S	247940.618	
722136.03	4294196.791	7805	09-Jun-15	BORE HOLE 9 060915.S	247797.729	
722136.618	4294221.348	7807	09-Jun-15	BORE HOLE 9 060915.S	247992.777	
722136.369	4294221.355	7812	09-Jun-15	BORE HOLE 9 060915.S	247939.747	
722131.355	4294218.077	7818	09-Jun-15	BORE HOLE 9 060915.S	248310.698	

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722133.876	4294198.913	7820	09-Jun-15	BORE HOLE 9 060915.S	248071.883	
722134.127	4294216.757	7820	09-Jun-15	BORE HOLE 9 060915.S	248124.852	
722128.36	4294205.318	7826	09-Jun-15	BORE HOLE 9 060915.S	248356.611	
722136.874	4294215.76	7829	09-Jun-15	BORE HOLE 9 060915.S	247853.862	
722135.921	4294216.752	7830	09-Jun-15	BORE HOLE 9 060915.S	248025.741	
722137.176	4294221.811	7836	09-Jun-15	BORE HOLE 9 060915.S	248106.596	
722132.467	4294219.794	7843	09-Jun-15	BORE HOLE 9 060915.S	248306.703	
722133.017	4294220.4	7852	09-Jun-15	BORE HOLE 9 060915.S	248222.723	
722136.444	4294221.165	7854	09-Jun-15	BORE HOLE 9 060915.S	247956.776	
722134.247	4294217.987	7861	09-Jun-15	BORE HOLE 9 060915.S	248204.582	
722132.005	4294219.697	7871	09-Jun-15	BORE HOLE 9 060915.S	248307.484	
722137.055	4294217.212	7881	09-Jun-15	BORE HOLE 9 060915.S	247920.844	
722133.043	4294218.682	7882	09-Jun-15	BORE HOLE 9 060915.S	248299.583	
722134.897	4294197.505	7889	09-Jun-15	BORE HOLE 9 060915.S	247883.599	
722138.454	4294223.431	7905	09-Jun-15	BORE HOLE 9 060915.S	247840.788	
722137.578	4294221.924	7906	09-Jun-15	BORE HOLE 9 060915.S	247927.799	
722136.517	4294221.236	7913	09-Jun-15	BORE HOLE 9 060915.S	247960.811	
722135.898	4294216.877	7917	09-Jun-15	BORE HOLE 9 060915.S	248032.596	
722137.385	4294220.134	7918	09-Jun-15	BORE HOLE 9 060915.S	247831.9	
722128.554	4294206.334	7923	09-Jun-15	BORE HOLE 9 060915.S	248361.476	
722136.387	4294204.744	7925	09-Jun-15	BORE HOLE 9 060915.S	247808.859	
722135.814	4294216.752	7928	09-Jun-15	BORE HOLE 9 060915.S	248021.762	
722135.008	4294222.142	7930	09-Jun-15	BORE HOLE 9 060915.S	248214.484	
722131.254	4294193.283	7933	09-Jun-15	BORE HOLE 9 060915.S	247699.88	
722136.465	4294221.15	7946	09-Jun-15	BORE HOLE 9 060915.S	247953.691	
722136.54	4294221.405	7951	09-Jun-15	BORE HOLE 9 060915.S	247993.759	
722134.061	4294201.011	7951	09-Jun-15	BORE HOLE 9 060915.S	248075.767	
722137.969	4294222.872	7952	09-Jun-15	BORE HOLE 9 060915.S	247836.61	
722128.471	4294205.712	7956	09-Jun-15	BORE HOLE 9 060915.S	248357.593	
722135.284	4294221.707	7965	09-Jun-15	BORE HOLE 9 060915.S	248116.755	
722136.678	4294215.695	7970	09-Jun-15	BORE HOLE 9 060915.S	247917.72	
722136.564	4294221.26	7972	09-Jun-15	BORE HOLE 9 060915.S	247962.857	
722136.47	4294221.38	7972	09-Jun-15	BORE HOLE 9 060915.S	247976.767	
722128.281	4294203.765	7975	09-Jun-15	BORE HOLE 9 060915.S	248354.592	
722136.512	4294214.228	7982	09-Jun-15	BORE HOLE 9 060915.S	247856.594	
722127.123	4294199.452	7996	09-Jun-15	BORE HOLE 9 060915.S	248347.691	
722136.254	4294200.486	8018	09-Jun-15	BORE HOLE 9 060915.S	247802.853	
722136.115	4294196.203	8062	09-Jun-15	BORE HOLE 9 060915.S	247796.861	
722136.518	4294221.31	8069	09-Jun-15	BORE HOLE 9 060915.S	247967.558	
722136.494	4294221.34	8069	09-Jun-15	BORE HOLE 9 060915.S	247972.677	
722135.694	4294217.278	8074	09-Jun-15	BORE HOLE 9 060915.S	248009.667	
722137.783	4294222.101	8081	09-Jun-15	BORE HOLE 9 060915.S	247834.939	
722136.267	4294221.511	8087	09-Jun-15	BORE HOLE 9 060915.S	247995.718	
722134.137	4294199.381	8092	09-Jun-15	BORE HOLE 9 060915.S	248062.724	
722133.307	4294218.773	8092	09-Jun-15	BORE HOLE 9 060915.S	248302.692	
722136.506	4294221.327	8116	09-Jun-15	BORE HOLE 9 060915.S	247969.571	
722130.985	4294193.774	8120	09-Jun-15	BORE HOLE 9 060915.S	247710.556	

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722136.507	4294221.2	8121	09-Jun-15	BORE HOLE 9 060915.S	247946.827	
722134.404	4294217.74	8121	09-Jun-15	BORE HOLE 9 060915.S	248122.901	
722136.543	4294221.248	8128	09-Jun-15	BORE HOLE 9 060915.S	247961.709	
722136.474	4294221.381	8143	09-Jun-15	BORE HOLE 9 060915.S	247977.753	
722136.477	4294214.961	8145	09-Jun-15	BORE HOLE 9 060915.S	248096.556	
722134.503	4294219.296	8146	09-Jun-15	BORE HOLE 9 060915.S	248207.75	
722134.926	4294198.038	8157	09-Jun-15	BORE HOLE 9 060915.S	247882.72	
722137.222	4294218.006	8167	09-Jun-15	BORE HOLE 9 060915.S	248100.772	
722136.022	4294199.106	8175	09-Jun-15	BORE HOLE 9 060915.S	247800.779	
722137.767	4294221.084	8178	09-Jun-15	BORE HOLE 9 060915.S	247844.806	
722137.196	4294223.224	8181	09-Jun-15	BORE HOLE 9 060915.S	247929.592	
722135.755	4294216.103	8191	09-Jun-15	BORE HOLE 9 060915.S	248035.678	
722136.359	4294221.31	8208	09-Jun-15	BORE HOLE 9 060915.S	247938.798	
722137.225	4294217.583	8214	09-Jun-15	BORE HOLE 9 060915.S	247827.881	
722135.391	4294222.432	8221	09-Jun-15	BORE HOLE 9 060915.S	248115.658	
722136.435	4294195	8228	09-Jun-15	BORE HOLE 9 060915.S	247789.648	
722136.094	4294219.235	8253	09-Jun-15	BORE HOLE 9 060915.S	248003.734	
722137.156	4294216.803	8258	09-Jun-15	BORE HOLE 9 060915.S	247826.732	
722136.506	4294221.326	8269	09-Jun-15	BORE HOLE 9 060915.S	247970.626	
722136.97	4294216.482	8271	09-Jun-15	BORE HOLE 9 060915.S	248098.735	
722136.533	4294221.339	8275	09-Jun-15	BORE HOLE 9 060915.S	247990.707	
722136.523	4294221.301	8278	09-Jun-15	BORE HOLE 9 060915.S	247966.946	
722133.046	4294217.953	8281	09-Jun-15	BORE HOLE 9 060915.S	248297.563	
722137.149	4294224.426	8285	09-Jun-15	BORE HOLE 9 060915.S	248110.848	
722135.557	4294223.077	8285	09-Jun-15	BORE HOLE 9 060915.S	248114.597	
722135.895	4294216.819	8289	09-Jun-15	BORE HOLE 9 060915.S	248027.636	
722136.459	4294221.178	8291	09-Jun-15	BORE HOLE 9 060915.S	247958.745	
722137.477	4294220.64	8302	09-Jun-15	BORE HOLE 9 060915.S	247925.614	
722132.645	4294218.828	8306	09-Jun-15	BORE HOLE 9 060915.S	248226.548	
722134.135	4294202.111	8312	09-Jun-15	BORE HOLE 9 060915.S	248077.622	
722137.279	4294223.884	8322	09-Jun-15	BORE HOLE 9 060915.S	248109.66	
722136.442	4294221.165	8323	09-Jun-15	BORE HOLE 9 060915.S	247957.577	
722136.284	4294221.35	8327	09-Jun-15	BORE HOLE 9 060915.S	247936.77	
722136.217	4294221.485	8328	09-Jun-15	BORE HOLE 9 060915.S	247997.418	
722136.484	4294221.155	8342	09-Jun-15	BORE HOLE 9 060915.S	247951.689	
722135.804	4294217.6	8346	09-Jun-15	BORE HOLE 9 060915.S	248005.759	
722136.49	4294221.476	8355	09-Jun-15	BORE HOLE 9 060915.S	247985.598	
722133.98	4294222.766	8363	09-Jun-15	BORE HOLE 9 060915.S	248216.666	
722136.536	4294221.197	8366	09-Jun-15	BORE HOLE 9 060915.S	247945.68	
722136.743	4294215.751	8366	09-Jun-15	BORE HOLE 9 060915.S	248097.671	
722136.64	4294223.209	8375	09-Jun-15	BORE HOLE 9 060915.S	247930.739	
722134.752	4294220.596	8379	09-Jun-15	BORE HOLE 9 060915.S	248210.739	
722133.188	4294219.179	8380	09-Jun-15	BORE HOLE 9 060915.S	248304.477	
722136.488	4294221.412	8387	09-Jun-15	BORE HOLE 9 060915.S	247981.633	
722137.104	4294217.633	8390	09-Jun-15	BORE HOLE 9 060915.S	247921.574	
722137.333	4294219.335	8395	09-Jun-15	BORE HOLE 9 060915.S	247830.638	
722135.781	4294194.881	8396	09-Jun-15	BORE HOLE 9 060915.S	247794.847	

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722135.998	4294197.741	8401	09-Jun-15	BORE HOLE 9 060915.S	247798.849	
722136.189	4294220.995	8404	09-Jun-15	BORE HOLE 9 060915.S	248000.868	
722135.02	4294220.345	8410	09-Jun-15	BORE HOLE 9 060915.S	248118.877	
722128.456	4294205.928	8411	09-Jun-15	BORE HOLE 9 060915.S	248360.596	
722135.735	4294216.801	8413	09-Jun-15	BORE HOLE 9 060915.S	248019.601	
722134.595	4294219.733	8426	09-Jun-15	BORE HOLE 9 060915.S	248208.615	
722137.156	4294217.103	8428	09-Jun-15	BORE HOLE 9 060915.S	248099.634	
722135.897	4294216.805	8437	09-Jun-15	BORE HOLE 9 060915.S	248026.848	
722129.424	4294210.078	8445	09-Jun-15	BORE HOLE 9 060915.S	248366.536	
722136.408	4294221.48	8457	09-Jun-15	BORE HOLE 9 060915.S	247987.584	
722136.167	4294220.595	8461	09-Jun-15	BORE HOLE 9 060915.S	248001.746	
722134.871	4294219.732	8462	09-Jun-15	BORE HOLE 9 060915.S	248119.724	
722135.676	4294217.259	8468	09-Jun-15	BORE HOLE 9 060915.S	248010.876	
722128.468	4294205.838	8469	09-Jun-15	BORE HOLE 9 060915.S	248358.737	
722135.338	4294201.553	8496	09-Jun-15	BORE HOLE 9 060915.S	247896.91	
722137.303	4294218.685	8501	09-Jun-15	BORE HOLE 9 060915.S	247829.632	
722136.493	4294221.358	8501	09-Jun-15	BORE HOLE 9 060915.S	247989.557	
722136.472	4294221.149	8505	09-Jun-15	BORE HOLE 9 060915.S	247952.811	
722136.433	4294221.293	8520	09-Jun-15	BORE HOLE 9 060915.S	247941.638	
722135.918	4294216.723	8520	09-Jun-15	BORE HOLE 9 060915.S	248024.807	
722136.494	4294221.168	8530	09-Jun-15	BORE HOLE 9 060915.S	247950.557	
722134.331	4294218.428	8535	09-Jun-15	BORE HOLE 9 060915.S	248205.765	
722134.334	4294217.375	8561	09-Jun-15	BORE HOLE 9 060915.S	248123.705	
722136.513	4294221.175	8562	09-Jun-15	BORE HOLE 9 060915.S	247948.86	
722136.556	4294221.259	8563	09-Jun-15	BORE HOLE 9 060915.S	247963.695	
722135.607	4294217.236	8563	09-Jun-15	BORE HOLE 9 060915.S	248014.777	
722130.734	4294215.875	8563	09-Jun-15	BORE HOLE 9 060915.S	248314.428	
722136.333	4294221.984	8566	09-Jun-15	BORE HOLE 9 060915.S	247933.737	
722128.445	4294205.87	8567	09-Jun-15	BORE HOLE 9 060915.S	248359.607	
722136.504	4294221.195	8570	09-Jun-15	BORE HOLE 9 060915.S	247947.687	
722135.597	4294217.224	8573	09-Jun-15	BORE HOLE 9 060915.S	248013.867	
722137.593	4294221.029	8579	09-Jun-15	BORE HOLE 9 060915.S	247832.991	
722137.933	4294221.686	8595	09-Jun-15	BORE HOLE 9 060915.S	247843.707	
722131.111	4294193.76	8618	09-Jun-15	BORE HOLE 9 060915.S	247713.764	
722136.424	4294221.161	8619	09-Jun-15	BORE HOLE 9 060915.S	247955.572	
722137.107	4294217.075	8623	09-Jun-15	BORE HOLE 9 060915.S	247851.552	
722136.54	4294221.281	8635	09-Jun-15	BORE HOLE 9 060915.S	247965.665	
722137.178	4294218.367	8637	09-Jun-15	BORE HOLE 9 060915.S	247922.604	
722136.502	4294221.331	8637	09-Jun-15	BORE HOLE 9 060915.S	247971.558	
722135.936	4294216.697	8640	09-Jun-15	BORE HOLE 9 060915.S	248023.614	
722130.614	4294214.888	8642	09-Jun-15	BORE HOLE 9 060915.S	248316.592	
722132.174	4294197.29	8681	09-Jun-15	BORE HOLE 9 060915.S	248165.562	
722135.67	4294216.863	8694	09-Jun-15	BORE HOLE 9 060915.S	248018.735	
722136.406	4294221.523	8748	09-Jun-15	BORE HOLE 9 060915.S	247986.709	
722137.825	4294222.45	8770	09-Jun-15	BORE HOLE 9 060915.S	247835.604	
722135.596	4294217.223	8771	09-Jun-15	BORE HOLE 9 060915.S	248015.786	
722131.774	4294193.195	8780	09-Jun-15	BORE HOLE 9 060915.S	247693.593	

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722136.037	4294218.284	8783	09-Jun-15	BORE HOLE 9 060915.S	248004.809	
722134.69	4294220.113	8796	09-Jun-15	BORE HOLE 9 060915.S	248209.449	
722136.739	4294215.315	8797	09-Jun-15	BORE HOLE 9 060915.S	247854.846	
722136.329	4294221.298	8831	09-Jun-15	BORE HOLE 9 060915.S	247937.576	
722136.268	4294221.35	8832	09-Jun-15	BORE HOLE 9 060915.S	247998.722	
722136.479	4294221.37	8848	09-Jun-15	BORE HOLE 9 060915.S	247975.593	
722136.821	4294224.444	8851	09-Jun-15	BORE HOLE 9 060915.S	248111.46	
722127.956	4294201.372	8857	09-Jun-15	BORE HOLE 9 060915.S	248350.612	
722135.66	4294217.244	8897	09-Jun-15	BORE HOLE 9 060915.S	248011.566	
722135.596	4294217.191	8912	09-Jun-15	BORE HOLE 9 060915.S	248016.715	
722136.421	4294221.161	8916	09-Jun-15	BORE HOLE 9 060915.S	247954.837	
722135.75	4294217.387	8926	09-Jun-15	BORE HOLE 9 060915.S	248006.763	
722137.122	4294217.57	8932	09-Jun-15	BORE HOLE 9 060915.S	247850.715	
722129.332	4294209.311	8941	09-Jun-15	BORE HOLE 9 060915.S	248365.474	
722134.464	4294218.892	8943	09-Jun-15	BORE HOLE 9 060915.S	248206.886	
722136.22	4294221.526	8951	09-Jun-15	BORE HOLE 9 060915.S	247996.794	
722131.005	4294193.739	8963	09-Jun-15	BORE HOLE 9 060915.S	247709.733	
722136.486	4294221.42	9006	09-Jun-15	BORE HOLE 9 060915.S	247983.645	
722136.552	4294214.816	9009	09-Jun-15	BORE HOLE 9 060915.S	247855.719	
722135.807	4294216.862	9029	09-Jun-15	BORE HOLE 9 060915.S	248033.471	
722136.248	4294224.034	9082	09-Jun-15	BORE HOLE 9 060915.S	248112.538	
722137.248	4294218.091	9088	09-Jun-15	BORE HOLE 9 060915.S	247849.679	
722136.492	4294221.354	9114	09-Jun-15	BORE HOLE 9 060915.S	247974.705	
722137.809	4294219.829	9128	09-Jun-15	BORE HOLE 9 060915.S	247846.874	
722135.117	4294221.044	9161	09-Jun-15	BORE HOLE 9 060915.S	248117.784	
722131.359	4294193.271	9174	09-Jun-15	BORE HOLE 9 060915.S	247699.09	
722136.489	4294221.44	9181	09-Jun-15	BORE HOLE 9 060915.S	247984.575	
722137.422	4294220.163	9210	09-Jun-15	BORE HOLE 9 060915.S	247924.891	
722136.457	4294221.292	9210	09-Jun-15	BORE HOLE 9 060915.S	247942.691	
722137.473	4294219.181	9212	09-Jun-15	BORE HOLE 9 060915.S	247847.764	
722134.704	4294222.554	9212	09-Jun-15	BORE HOLE 9 060915.S	248215.604	
722136.817	4294216.218	9222	09-Jun-15	BORE HOLE 9 060915.S	247918.809	
722127.271	4294200.085	9229	09-Jun-15	BORE HOLE 9 060915.S	248348.588	
722135.712	4294217.306	9258	09-Jun-15	BORE HOLE 9 060915.S	248008.616	
722134.728	4294220.894	9294	09-Jun-15	BORE HOLE 9 060915.S	248211.55	
722135.896	4294216.71	9362	09-Jun-15	BORE HOLE 9 060915.S	248022.597	
722135.827	4294223.449	9500	09-Jun-15	BORE HOLE 9 060915.S	248113.709	
722137.2	4294218.084	9523	09-Jun-15	BORE HOLE 9 060915.S	247828.784	
722136.446	4294221.47	9547	09-Jun-15	BORE HOLE 9 060915.S	247994.793	
722128.849	4294207.27	9570	09-Jun-15	BORE HOLE 9 060915.S	248362.598	
722131.579	4294193.304	9577	09-Jun-15	BORE HOLE 9 060915.S	247697.591	
722136.491	4294221.347	9577	09-Jun-15	BORE HOLE 9 060915.S	247973.562	
722136.223	4294221.278	9618	09-Jun-15	BORE HOLE 9 060915.S	247999.651	
722136.916	4294216.616	9685	09-Jun-15	BORE HOLE 9 060915.S	247919.769	
722135.73	4294217.346	9791	09-Jun-15	BORE HOLE 9 060915.S	248007.677	
722135.588	4294217.049	9818	09-Jun-15	BORE HOLE 9 060915.S	248017.66	
722136.552	4294221.265	9940	09-Jun-15	BORE HOLE 9 060915.S	247964.707	

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722129.214	4294208.106	10222	09-Jun-15	BORE HOLE 9 060915.S	248363.748	
722129.303	4294208.735	11525	09-Jun-15	BORE HOLE 9 060915.S	248364.643	
722080.261	4294220.246	4697	28-Apr-15	BORE HOLE D5.SSF	220409.069	10
722080.725	4294220.201	4743	28-Apr-15	BORE HOLE D5.SSF	220404.216	5
722078.397	4294225.591	4833	28-Apr-15	BORE HOLE D5.SSF	220534.103	135
722078.85	4294222.125	4953	28-Apr-15	BORE HOLE D5.SSF	220436.247	37
722080.693	4294220.218	4965	28-Apr-15	BORE HOLE D5.SSF	220403.307	4
722078.67	4294226.72	4974	28-Apr-15	BORE HOLE D5.SSF	220535.928	137
722078.629	4294226.333	4976	28-Apr-15	BORE HOLE D5.SSF	220535.172	136
722080.701	4294220.214	4991	28-Apr-15	BORE HOLE D5.SSF	220406.002	7
722078.145	4294224.49	4996	28-Apr-15	BORE HOLE D5.SSF	220532.323	133
722080.728	4294220.183	5007	28-Apr-15	BORE HOLE D5.SSF	220405.144	6
722080.448	4294220.276	5070	28-Apr-15	BORE HOLE D5.SSF	220408.134	9
722080.36	4294223.046	5080	28-Apr-15	BORE HOLE D5.SSF	220420.048	21
722074.441	4294220.242	5080	28-Apr-15	BORE HOLE D5.SSF	220634.907	236
722080.135	4294222.378	5153	28-Apr-15	BORE HOLE D5.SSF	220417.185	18
722080.069	4294222.132	5161	28-Apr-15	BORE HOLE D5.SSF	220416.252	17
722079.783	4294220.425	5169	28-Apr-15	BORE HOLE D5.SSF	220410.285	11
722076.247	4294220.255	5171	28-Apr-15	BORE HOLE D5.SSF	220549.132	150
722077.9	4294223.717	5176	28-Apr-15	BORE HOLE D5.SSF	220531.216	132
722080.558	4294220.315	5200	28-Apr-15	BORE HOLE D5.SSF	220407.306	8
722080.788	4294224.254	5223	28-Apr-15	BORE HOLE D5.SSF	220428.147	29
722079.596	4294222.967	5246	28-Apr-15	BORE HOLE D5.SSF	220434.035	35
722079.174	4294222.614	5246	28-Apr-15	BORE HOLE D5.SSF	220435.137	36
722077.113	4294225.857	5247	28-Apr-15	BORE HOLE D5.SSF	220717.248	262
722078.634	4294227.044	5265	28-Apr-15	BORE HOLE D5.SSF	220536.858	138
722076.118	4294224.658	5268	28-Apr-15	BORE HOLE D5.SSF	220641.275	242
722076.26	4294225.085	5288	28-Apr-15	BORE HOLE D5.SSF	220642.083	243
722080.754	4294224.146	5300	28-Apr-15	BORE HOLE D5.SSF	220427.137	28
722080.274	4294222.858	5312	28-Apr-15	BORE HOLE D5.SSF	220419.096	20
722079.951	4294223.327	5312	28-Apr-15	BORE HOLE D5.SSF	220433.086	34
722080.762	4294224.269	5338	28-Apr-15	BORE HOLE D5.SSF	220429.085	30
722077.111	4294225.804	5366	28-Apr-15	BORE HOLE D5.SSF	220718.241	263
722079.645	4294220.658	5368	28-Apr-15	BORE HOLE D5.SSF	220411.202	12
722079.738	4294221.263	5368	28-Apr-15	BORE HOLE D5.SSF	220413.248	14
722080.68	4294220.222	5373	28-Apr-15	BORE HOLE D5.SSF	220402.28	2
722080.548	4294223.576	5380	28-Apr-15	BORE HOLE D5.SSF	220423.049	24
722077.871	4294226.375	5388	28-Apr-15	BORE HOLE D5.SSF	220539.278	140
722079.951	4294221.803	5389	28-Apr-15	BORE HOLE D5.SSF	220415.069	16
722076.026	4294219.544	5391	28-Apr-15	BORE HOLE D5.SSF	220550.098	151
722077.634	4294222.783	5402	28-Apr-15	BORE HOLE D5.SSF	220529.869	131
722080.161	4294222.571	5403	28-Apr-15	BORE HOLE D5.SSF	220417.943	19
722078.197	4294227.073	5406	28-Apr-15	BORE HOLE D5.SSF	220538.223	139
722076.373	4294220.85	5419	28-Apr-15	BORE HOLE D5.SSF	220548.277	149
722078.505	4294221.875	5433	28-Apr-15	BORE HOLE D5.SSF	220437.038	38
722075.688	4294218.101	5434	28-Apr-15	BORE HOLE D5.SSF	220551.89	153
722075.809	4294218.74	5447	28-Apr-15	BORE HOLE D5.SSF	220551.094	152

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722077.518	4294221.069	5457	28-Apr-15	BORE HOLE D5.SSF	220439.213	40
722080.709	4294224.017	5462	28-Apr-15	BORE HOLE D5.SSF	220426.073	27
722078.28	4294224.956	5473	28-Apr-15	BORE HOLE D5.SSF	220533.098	134
722080.688	4294224.148	5485	28-Apr-15	BORE HOLE D5.SSF	220430.184	31
722079.837	4294221.533	5487	28-Apr-15	BORE HOLE D5.SSF	220414.14	15
722077.813	4294225.922	5528	28-Apr-15	BORE HOLE D5.SSF	220540.032	141
722075.856	4294224.085	5592	28-Apr-15	BORE HOLE D5.SSF	220640.328	241
722077.659	4294225.413	5599	28-Apr-15	BORE HOLE D5.SSF	220541.1	142
722080.61	4294223.757	5621	28-Apr-15	BORE HOLE D5.SSF	220424.245	25
722078.128	4294221.435	5621	28-Apr-15	BORE HOLE D5.SSF	220438.131	39
722079.649	4294220.925	5636	28-Apr-15	BORE HOLE D5.SSF	220412.14	13
722080.38	4294223.663	5644	28-Apr-15	BORE HOLE D5.SSF	220432.037	33
722076.858	4294222.952	5670	28-Apr-15	BORE HOLE D5.SSF	220545.232	146
722077.031	4294227.149	5670	28-Apr-15	BORE HOLE D5.SSF	220646.093	247
722075.247	4294223.79	5670	28-Apr-15	BORE HOLE D5.SSF	220723.033	268
722075.954	4294224.511	5676	28-Apr-15	BORE HOLE D5.SSF	220651.889	253
722077.416	4294222.343	5684	28-Apr-15	BORE HOLE D5.SSF	220529.093	130
722080.443	4294223.273	5685	28-Apr-15	BORE HOLE D5.SSF	220421.252	22
722080.655	4294223.882	5697	28-Apr-15	BORE HOLE D5.SSF	220425.139	26
722074.689	4294221.169	5707	28-Apr-15	BORE HOLE D5.SSF	220636.12	237
722076.037	4294224.765	5757	28-Apr-15	BORE HOLE D5.SSF	220651.091	252
722076.768	4294222.361	5777	28-Apr-15	BORE HOLE D5.SSF	220546.092	147
722075.265	4294222.609	5809	28-Apr-15	BORE HOLE D5.SSF	220637.936	239
722075.63	4294223.199	5822	28-Apr-15	BORE HOLE D5.SSF	220639.003	240
722075.513	4294217.112	5824	28-Apr-15	BORE HOLE D5.SSF	220553.094	154
722076.79	4294219.865	5843	28-Apr-15	BORE HOLE D5.SSF	220441.087	42
722076.663	4294225.01	5850	28-Apr-15	BORE HOLE D5.SSF	220720.034	265
722074.929	4294222.036	5865	28-Apr-15	BORE HOLE D5.SSF	220637.128	238
722077.106	4294220.574	5882	28-Apr-15	BORE HOLE D5.SSF	220440.046	41
722077.543	4294224.936	5895	28-Apr-15	BORE HOLE D5.SSF	220541.897	143
722077.062	4294220.876	5913	28-Apr-15	BORE HOLE D5.SSF	220526.936	128
722077.224	4294224.328	5955	28-Apr-15	BORE HOLE D5.SSF	220542.956	144
722075.553	4294224.319	5959	28-Apr-15	BORE HOLE D5.SSF	220722.106	267
722076.989	4294223.703	5960	28-Apr-15	BORE HOLE D5.SSF	220544.097	145
722077.078	4294225.624	5973	28-Apr-15	BORE HOLE D5.SSF	220719.032	264
722076.562	4294225.772	6004	28-Apr-15	BORE HOLE D5.SSF	220642.995	244
722080.503	4294223.43	6018	28-Apr-15	BORE HOLE D5.SSF	220422.132	23
722077.219	4294226.898	6055	28-Apr-15	BORE HOLE D5.SSF	220645.037	246
722077.163	4294221.581	6078	28-Apr-15	BORE HOLE D5.SSF	220528.099	129
722075.971	4294224.523	6078	28-Apr-15	BORE HOLE D5.SSF	220721.35	266
722076.931	4294226.353	6106	28-Apr-15	BORE HOLE D5.SSF	220643.996	245
722075.754	4294224.221	6117	28-Apr-15	BORE HOLE D5.SSF	220652.978	254
722075.606	4294223.92	6119	28-Apr-15	BORE HOLE D5.SSF	220653.759	255
722075.485	4294216.524	6126	28-Apr-15	BORE HOLE D5.SSF	220553.854	155
722076.724	4294217.901	6138	28-Apr-15	BORE HOLE D5.SSF	220444.043	45
722074.884	4294223.24	6151	28-Apr-15	BORE HOLE D5.SSF	220723.816	269
722076.653	4294226.751	6175	28-Apr-15	BORE HOLE D5.SSF	220647.092	248

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722076.567	4294221.566	6197	28-Apr-15	BORE HOLE D5.SSF	220547.193	148
722073.361	4294220.764	6291	28-Apr-15	BORE HOLE D5.SSF	220727.078	272
722080.589	4294223.946	6332	28-Apr-15	BORE HOLE D5.SSF	220431.201	32
722075.405	4294223.767	6420	28-Apr-15	BORE HOLE D5.SSF	220655.978	257
722073.281	4294220.334	6522	28-Apr-15	BORE HOLE D5.SSF	220727.722	273
722073.225	4294219.568	6586	28-Apr-15	BORE HOLE D5.SSF	220728.861	274
722075.456	4294223.736	6720	28-Apr-15	BORE HOLE D5.SSF	220655.185	256
722074.474	4294219.442	6760	28-Apr-15	BORE HOLE D5.SSF	220633.806	235
722076.659	4294219.158	6766	28-Apr-15	BORE HOLE D5.SSF	220442.209	43
722074.485	4294216.038	6887	28-Apr-15	BORE HOLE D5.SSF	220628.004	229
722074.551	4294201.174	6899	28-Apr-15	BORE HOLE D5.SSF	220604.903	206
722073.846	4294221.484	6924	28-Apr-15	BORE HOLE D5.SSF	220726.006	271
722076.1	4294194.101	7001	28-Apr-15	BORE HOLE D5.SSF	220850.089	395
722074.242	4294204.866	7022	28-Apr-15	BORE HOLE D5.SSF	220610.967	212
722075.432	4294194.416	7023	28-Apr-15	BORE HOLE D5.SSF	220777.954	323
722076.28	4294225.58	7038	28-Apr-15	BORE HOLE D5.SSF	220649.282	250
722074.222	4294222.13	7057	28-Apr-15	BORE HOLE D5.SSF	220725.156	270
722073.256	4294218.915	7073	28-Apr-15	BORE HOLE D5.SSF	220730.037	275
722077.27	4294194.704	7079	28-Apr-15	BORE HOLE D5.SSF	220774.017	319
722074.457	4294218.177	7123	28-Apr-15	BORE HOLE D5.SSF	220631.907	233
722076.908	4294219.505	7127	28-Apr-15	BORE HOLE D5.SSF	220524.948	126
722076.516	4294194.758	7139	28-Apr-15	BORE HOLE D5.SSF	220589.185	190
722076.715	4294218.411	7151	28-Apr-15	BORE HOLE D5.SSF	220443.281	44
722076.207	4294201.8	7188	28-Apr-15	BORE HOLE D5.SSF	220575.237	176
722076.271	4294225.195	7189	28-Apr-15	BORE HOLE D5.SSF	220650.077	251
722073.162	4294213.466	7200	28-Apr-15	BORE HOLE D5.SSF	220737.84	283
722077.023	4294220.373	7211	28-Apr-15	BORE HOLE D5.SSF	220526.092	127
722076.028	4294191.991	7219	28-Apr-15	BORE HOLE D5.SSF	220768.099	313
722074.277	4294214.703	7225	28-Apr-15	BORE HOLE D5.SSF	220625.035	226
722076.69	4294217.181	7234	28-Apr-15	BORE HOLE D5.SSF	220445.15	46
722074.395	4294215.271	7236	28-Apr-15	BORE HOLE D5.SSF	220626.088	227
722073.071	4294217.39	7256	28-Apr-15	BORE HOLE D5.SSF	220732.09	277
722076.31	4294194.262	7282	28-Apr-15	BORE HOLE D5.SSF	220932.095	479
722077.58	4294194.222	7318	28-Apr-15	BORE HOLE D5.SSF	220773.026	318
722076.339	4294214.578	7328	28-Apr-15	BORE HOLE D5.SSF	220449.23	50
722077.375	4294200.185	7329	28-Apr-15	BORE HOLE D5.SSF	220478.035	79
722074.425	4294216.494	7331	28-Apr-15	BORE HOLE D5.SSF	220629.058	230
722076.528	4294215.143	7354	28-Apr-15	BORE HOLE D5.SSF	220448.224	49
722073.425	4294211.106	7368	28-Apr-15	BORE HOLE D5.SSF	220741.224	286
722073.927	4294205.338	7401	28-Apr-15	BORE HOLE D5.SSF	220747.981	293
722073.482	4294210.31	7404	28-Apr-15	BORE HOLE D5.SSF	220742.09	287
722076.68	4294193.864	7451	28-Apr-15	BORE HOLE D5.SSF	220946.863	494
722075.427	4294215.538	7471	28-Apr-15	BORE HOLE D5.SSF	220555.096	156
722076.71	4294193.809	7481	28-Apr-15	BORE HOLE D5.SSF	220951.101	498
722075.876	4294194.295	7486	28-Apr-15	BORE HOLE D5.SSF	220848.844	394
722076.687	4294216.63	7508	28-Apr-15	BORE HOLE D5.SSF	220445.92	47
722075.944	4294194.059	7517	28-Apr-15	BORE HOLE D5.SSF	220843.914	389

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722076.815	4294193.89	7533	28-Apr-15	BORE HOLE D5.SSF	220948.048	495
722074.28	4294214.023	7541	28-Apr-15	BORE HOLE D5.SSF	220624.036	225
722076.143	4294200.872	7548	28-Apr-15	BORE HOLE D5.SSF	220577.928	179
722074.146	4294209.789	7548	28-Apr-15	BORE HOLE D5.SSF	220618.096	219
722074.978	4294198.302	7552	28-Apr-15	BORE HOLE D5.SSF	220600.034	201
722075.947	4294194.367	7559	28-Apr-15	BORE HOLE D5.SSF	220966.063	514
722076.145	4294194.215	7561	28-Apr-15	BORE HOLE D5.SSF	220903.66	451
722073.174	4294214.722	7573	28-Apr-15	BORE HOLE D5.SSF	220736.216	281
722074.321	4294202.948	7590	28-Apr-15	BORE HOLE D5.SSF	220608.163	209
722076.047	4294194.004	7593	28-Apr-15	BORE HOLE D5.SSF	220830.057	375
722074.449	4294218.849	7601	28-Apr-15	BORE HOLE D5.SSF	220633.034	234
722076.313	4294194.052	7618	28-Apr-15	BORE HOLE D5.SSF	220954.064	501
722075.817	4294193.756	7620	28-Apr-15	BORE HOLE D5.SSF	220868.001	413
722075.925	4294193.743	7622	28-Apr-15	BORE HOLE D5.SSF	220790.894	336
722075.894	4294194.241	7632	28-Apr-15	BORE HOLE D5.SSF	220845.848	391
722076.363	4294194.642	7641	28-Apr-15	BORE HOLE D5.SSF	220942.05	489
722074.402	4294216.868	7653	28-Apr-15	BORE HOLE D5.SSF	220629.73	231
722076.354	4294194.152	7672	28-Apr-15	BORE HOLE D5.SSF	220819.105	364
722076.164	4294201.465	7674	28-Apr-15	BORE HOLE D5.SSF	220576.112	177
722076.497	4294195.384	7677	28-Apr-15	BORE HOLE D5.SSF	220588.092	189
722076.272	4294194.085	7682	28-Apr-15	BORE HOLE D5.SSF	220823.038	368
722076.593	4294192.333	7684	28-Apr-15	BORE HOLE D5.SSF	220769.238	314
722076.04	4294194.416	7685	28-Apr-15	BORE HOLE D5.SSF	220929.85	477
722076.124	4294199.294	7687	28-Apr-15	BORE HOLE D5.SSF	220582.089	183
722074.141	4294204.138	7689	28-Apr-15	BORE HOLE D5.SSF	220609.958	211
722075.856	4294193.784	7690	28-Apr-15	BORE HOLE D5.SSF	220875.912	421
722076.415	4294194.368	7693	28-Apr-15	BORE HOLE D5.SSF	220937.709	485
722072.999	4294216.836	7694	28-Apr-15	BORE HOLE D5.SSF	220733.086	278
722076.118	4294200.431	7707	28-Apr-15	BORE HOLE D5.SSF	220579.277	180
722074.359	4294203.637	7707	28-Apr-15	BORE HOLE D5.SSF	220750.036	295
722076.082	4294194.05	7717	28-Apr-15	BORE HOLE D5.SSF	220821.099	366
722076.101	4294202.588	7741	28-Apr-15	BORE HOLE D5.SSF	220573.276	174
722075.928	4294194.078	7747	28-Apr-15	BORE HOLE D5.SSF	220843.155	388
722075.12	4294195.134	7750	28-Apr-15	BORE HOLE D5.SSF	220595.04	196
722076.433	4294226.004	7753	28-Apr-15	BORE HOLE D5.SSF	220648.238	249
722075.66	4294191.776	7758	28-Apr-15	BORE HOLE D5.SSF	220767.236	312
722075.581	4294193.463	7758	28-Apr-15	BORE HOLE D5.SSF	220780.022	325
722076.956	4294194.594	7807	28-Apr-15	BORE HOLE D5.SSF	220811.205	356
722075.941	4294194.16	7849	28-Apr-15	BORE HOLE D5.SSF	220845.017	390
722076.64	4294194.45	7857	28-Apr-15	BORE HOLE D5.SSF	220788.1	333
722074.886	4294198.812	7858	28-Apr-15	BORE HOLE D5.SSF	220601.134	202
722076.115	4294194.099	7870	28-Apr-15	BORE HOLE D5.SSF	220912.032	459
722075.805	4294193.719	7875	28-Apr-15	BORE HOLE D5.SSF	220869.038	414
722077.456	4294192.689	7881	28-Apr-15	BORE HOLE D5.SSF	220805.045	350
722076.285	4294194.522	7884	28-Apr-15	BORE HOLE D5.SSF	220940.887	488
722077.465	4294193.025	7890	28-Apr-15	BORE HOLE D5.SSF	220771.064	316
722073.028	4294216.384	7893	28-Apr-15	BORE HOLE D5.SSF	220733.843	279

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722076.839	4294197.554	7895	28-Apr-15	BORE HOLE D5.SSF	220493.002	94
722076.096	4294194.15	7900	28-Apr-15	BORE HOLE D5.SSF	220851.1	396
722076.308	4294194.091	7900	28-Apr-15	BORE HOLE D5.SSF	220957.775	505
722073.191	4294217.977	7904	28-Apr-15	BORE HOLE D5.SSF	220731.201	276
722076.453	4294193.974	7915	28-Apr-15	BORE HOLE D5.SSF	220952.887	500
722076.251	4294194.168	7918	28-Apr-15	BORE HOLE D5.SSF	220959.921	507
722073.198	4294214.008	7923	28-Apr-15	BORE HOLE D5.SSF	220737.085	282
722075.937	4294194.342	7932	28-Apr-15	BORE HOLE D5.SSF	220925.039	472
722076.637	4294215.6	7937	28-Apr-15	BORE HOLE D5.SSF	220447.41	48
722076.188	4294194.18	7947	28-Apr-15	BORE HOLE D5.SSF	220810.096	355
722075.982	4294206.373	7956	28-Apr-15	BORE HOLE D5.SSF	220567.26	168
722075.448	4294214.681	7957	28-Apr-15	BORE HOLE D5.SSF	220556.155	157
722074.198	4294203.597	7957	28-Apr-15	BORE HOLE D5.SSF	220609.201	210
722076.405	4294206.851	7971	28-Apr-15	BORE HOLE D5.SSF	220462.13	63
722074.109	4294212.633	7981	28-Apr-15	BORE HOLE D5.SSF	220622.168	223
722075.88	4294209.157	7983	28-Apr-15	BORE HOLE D5.SSF	220563.288	164
722076.057	4294194.24	7986	28-Apr-15	BORE HOLE D5.SSF	220835.811	381
722076.105	4294194.301	7993	28-Apr-15	BORE HOLE D5.SSF	220898.004	445
722076.163	4294202.339	7995	28-Apr-15	BORE HOLE D5.SSF	220574.11	175
722073.231	4294211.855	7995	28-Apr-15	BORE HOLE D5.SSF	220740.086	285
722076.111	4294194.079	7999	28-Apr-15	BORE HOLE D5.SSF	220914.091	461
722076.439	4294207.247	8006	28-Apr-15	BORE HOLE D5.SSF	220461.23	62
722076.166	4294213.988	8012	28-Apr-15	BORE HOLE D5.SSF	220450.007	51
722076.145	4294194.471	8015	28-Apr-15	BORE HOLE D5.SSF	220896.033	443
722075.863	4294193.773	8024	28-Apr-15	BORE HOLE D5.SSF	220886.96	432
722076.152	4294194.251	8025	28-Apr-15	BORE HOLE D5.SSF	220962.814	510
722074.188	4294204.47	8030	28-Apr-15	BORE HOLE D5.SSF	220749.002	294
722077.734	4294193.603	8032	28-Apr-15	BORE HOLE D5.SSF	220772.011	317
722076.315	4294194.106	8035	28-Apr-15	BORE HOLE D5.SSF	220959.165	506
722075.996	4294194.341	8039	28-Apr-15	BORE HOLE D5.SSF	220965.066	512
722077.057	4294192.521	8041	28-Apr-15	BORE HOLE D5.SSF	220770.037	315
722076.902	4294203.625	8044	28-Apr-15	BORE HOLE D5.SSF	220473.315	74
722075.91	4294203.209	8046	28-Apr-15	BORE HOLE D5.SSF	220572.116	173
722076.147	4294194.213	8046	28-Apr-15	BORE HOLE D5.SSF	220903.097	450
722076.886	4294193.394	8049	28-Apr-15	BORE HOLE D5.SSF	220783.86	329
722077.475	4294198.88	8055	28-Apr-15	BORE HOLE D5.SSF	220480.021	81
722075.685	4294193.2	8059	28-Apr-15	BORE HOLE D5.SSF	220780.884	326
722075.232	4294193.267	8072	28-Apr-15	BORE HOLE D5.SSF	220808.188	353
722076.307	4294194.077	8080	28-Apr-15	BORE HOLE D5.SSF	220956.988	504
722073.124	4294215.494	8093	28-Apr-15	BORE HOLE D5.SSF	220735.089	280
722076.702	4294193.853	8093	28-Apr-15	BORE HOLE D5.SSF	220949.127	496
722074.229	4294207.027	8110	28-Apr-15	BORE HOLE D5.SSF	220614.096	215
722075.803	4294211.411	8122	28-Apr-15	BORE HOLE D5.SSF	220560.138	161
722074.994	4294197.869	8127	28-Apr-15	BORE HOLE D5.SSF	220599.091	200
722076.417	4294194.36	8139	28-Apr-15	BORE HOLE D5.SSF	220936.094	483
722076.039	4294201.616	8146	28-Apr-15	BORE HOLE D5.SSF	220500.035	101
722076.436	4294195.83	8150	28-Apr-15	BORE HOLE D5.SSF	220587.229	188

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722076.078	4294194.291	8156	28-Apr-15	BORE HOLE D5.SSF	220964.059	511
722075.818	4294193.75	8157	28-Apr-15	BORE HOLE D5.SSF	220865.915	411
722076.138	4294200.21	8166	28-Apr-15	BORE HOLE D5.SSF	220580.102	181
722076.31	4294191.939	8167	28-Apr-15	BORE HOLE D5.SSF	220795.155	340
722075.857	4294193.869	8167	28-Apr-15	BORE HOLE D5.SSF	220861.088	406
722075.556	4294213.898	8169	28-Apr-15	BORE HOLE D5.SSF	220557.173	158
722075.979	4294194.207	8170	28-Apr-15	BORE HOLE D5.SSF	220920.154	467
722077.751	4294196.012	8181	28-Apr-15	BORE HOLE D5.SSF	220484.212	85
722076.986	4294202.972	8191	28-Apr-15	BORE HOLE D5.SSF	220474.071	75
722077.595	4294198.113	8193	28-Apr-15	BORE HOLE D5.SSF	220481.125	82
722076.351	4294194.3	8193	28-Apr-15	BORE HOLE D5.SSF	220938.857	486
722075.951	4294194.316	8209	28-Apr-15	BORE HOLE D5.SSF	220924.149	471
722076.419	4294194.363	8214	28-Apr-15	BORE HOLE D5.SSF	220937.143	484
722074.228	4294208.311	8216	28-Apr-15	BORE HOLE D5.SSF	220615.977	217
722073.123	4294212.599	8220	28-Apr-15	BORE HOLE D5.SSF	220739.018	284
722076.231	4294211.925	8221	28-Apr-15	BORE HOLE D5.SSF	220514.145	115
722075.989	4294194.238	8228	28-Apr-15	BORE HOLE D5.SSF	220921.845	469
722074.385	4294215.703	8229	28-Apr-15	BORE HOLE D5.SSF	220627.133	228
722076.72	4294218.798	8230	28-Apr-15	BORE HOLE D5.SSF	220523.87	125
722076.084	4294194.228	8236	28-Apr-15	BORE HOLE D5.SSF	220837.069	382
722076.266	4294194.32	8251	28-Apr-15	BORE HOLE D5.SSF	220931.185	478
722075.95	4294194.356	8253	28-Apr-15	BORE HOLE D5.SSF	220925.815	473
722076.367	4294214.727	8265	28-Apr-15	BORE HOLE D5.SSF	220518.122	119
722074.597	4294202.247	8266	28-Apr-15	BORE HOLE D5.SSF	220751.841	297
722075.786	4294193.686	8268	28-Apr-15	BORE HOLE D5.SSF	220870.054	415
722076.235	4294194.101	8269	28-Apr-15	BORE HOLE D5.SSF	220892.108	437
722076.115	4294213.103	8273	28-Apr-15	BORE HOLE D5.SSF	220451.222	52
722075.83	4294193.875	8285	28-Apr-15	BORE HOLE D5.SSF	220859.038	404
722076.09	4294194.007	8288	28-Apr-15	BORE HOLE D5.SSF	220831.196	376
722075.82	4294193.725	8290	28-Apr-15	BORE HOLE D5.SSF	220879.861	425
722076.011	4294194.065	8291	28-Apr-15	BORE HOLE D5.SSF	220789.881	335
722074.088	4294211.115	8301	28-Apr-15	BORE HOLE D5.SSF	220619.933	221
722076.198	4294194.526	8302	28-Apr-15	BORE HOLE D5.SSF	220894.997	441
722076.195	4294199.775	8311	28-Apr-15	BORE HOLE D5.SSF	220581.242	182
722076.457	4294208.86	8315	28-Apr-15	BORE HOLE D5.SSF	220458.293	59
722076.102	4294194.199	8317	28-Apr-15	BORE HOLE D5.SSF	220909.142	456
722076.114	4294194.113	8319	28-Apr-15	BORE HOLE D5.SSF	220910.771	458
722075.859	4294193.772	8321	28-Apr-15	BORE HOLE D5.SSF	220875.144	420
722073.702	4294207.747	8325	28-Apr-15	BORE HOLE D5.SSF	220745.036	290
722075.767	4294193.728	8325	28-Apr-15	BORE HOLE D5.SSF	220863.223	408
722075.782	4294193.495	8327	28-Apr-15	BORE HOLE D5.SSF	220592.088	193
722075.98	4294194.224	8329	28-Apr-15	BORE HOLE D5.SSF	220837.825	383
722076.465	4294194.64	8330	28-Apr-15	BORE HOLE D5.SSF	220943.22	490
722075.261	4294192.873	8336	28-Apr-15	BORE HOLE D5.SSF	220765.092	310
722077.409	4294199.453	8342	28-Apr-15	BORE HOLE D5.SSF	220479.193	80
722076.085	4294201.01	8345	28-Apr-15	BORE HOLE D5.SSF	220499.037	100
722076.212	4294211.588	8347	28-Apr-15	BORE HOLE D5.SSF	220453.095	54

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722075.29	4294194.008	8355	28-Apr-15	BORE HOLE D5.SSF	220778.848	324
722075.87	4294193.786	8356	28-Apr-15	BORE HOLE D5.SSF	220889.59	435
722077.666	4294196.792	8364	28-Apr-15	BORE HOLE D5.SSF	220483.093	84
722073.928	4294205.89	8365	28-Apr-15	BORE HOLE D5.SSF	220747.19	292
722076.237	4294198.618	8372	28-Apr-15	BORE HOLE D5.SSF	220583.086	184
722077.085	4294202.108	8377	28-Apr-15	BORE HOLE D5.SSF	220475.191	76
722073.763	4294206.735	8381	28-Apr-15	BORE HOLE D5.SSF	220746.084	291
722076.146	4294194.042	8382	28-Apr-15	BORE HOLE D5.SSF	220916.159	463
722075.32	4294193.572	8387	28-Apr-15	BORE HOLE D5.SSF	220763.94	309
722075.76	4294193.935	8389	28-Apr-15	BORE HOLE D5.SSF	220809.337	354
722076.081	4294202.535	8396	28-Apr-15	BORE HOLE D5.SSF	220501.367	102
722076.118	4294203.159	8399	28-Apr-15	BORE HOLE D5.SSF	220502.236	103
722078.218	4294191.73	8400	28-Apr-15	BORE HOLE D5.SSF	220799.755	345
722076.002	4294194.054	8413	28-Apr-15	BORE HOLE D5.SSF	220829.051	374
722075.962	4294194.47	8420	28-Apr-15	BORE HOLE D5.SSF	220929.044	476
722075.949	4294194.065	8430	28-Apr-15	BORE HOLE D5.SSF	220842.089	387
722075.85	4294193.89	8431	28-Apr-15	BORE HOLE D5.SSF	220859.828	405
722075.981	4294194.227	8432	28-Apr-15	BORE HOLE D5.SSF	220920.923	468
722076.389	4294194.363	8437	28-Apr-15	BORE HOLE D5.SSF	220934.865	482
722076.396	4294194.014	8441	28-Apr-15	BORE HOLE D5.SSF	220955.875	503
722077.895	4294194.855	8446	28-Apr-15	BORE HOLE D5.SSF	220486.096	87
722074.445	4294217.673	8453	28-Apr-15	BORE HOLE D5.SSF	220631.151	232
722076.115	4294194.34	8453	28-Apr-15	BORE HOLE D5.SSF	220897.187	444
722075.862	4294194.29	8464	28-Apr-15	BORE HOLE D5.SSF	220847.714	393
722075.852	4294192.625	8465	28-Apr-15	BORE HOLE D5.SSF	220806.938	352
722074.437	4294202.86	8467	28-Apr-15	BORE HOLE D5.SSF	220751.085	296
722076.405	4294206.272	8473	28-Apr-15	BORE HOLE D5.SSF	220463.313	64
722075.812	4294193.701	8473	28-Apr-15	BORE HOLE D5.SSF	220871.697	417
722074.888	4294199.195	8474	28-Apr-15	BORE HOLE D5.SSF	220601.892	203
722075.281	4294192.29	8474	28-Apr-15	BORE HOLE D5.SSF	220765.856	311
722079.21	4294192.619	8475	28-Apr-15	BORE HOLE D5.SSF	220801.999	347
722075.051	4294195.864	8477	28-Apr-15	BORE HOLE D5.SSF	220596.008	197
722076.67	4294199.553	8478	28-Apr-15	BORE HOLE D5.SSF	220496.036	97
722076.109	4294194.246	8478	28-Apr-15	BORE HOLE D5.SSF	220899.033	446
722075.94	4294194.159	8480	28-Apr-15	BORE HOLE D5.SSF	220855.84	401
722076.454	4294216.868	8488	28-Apr-15	BORE HOLE D5.SSF	220521.091	122
722076.172	4294194.234	8494	28-Apr-15	BORE HOLE D5.SSF	220900.785	448
722075.808	4294193.753	8508	28-Apr-15	BORE HOLE D5.SSF	220865.15	410
722075.107	4294197.814	8518	28-Apr-15	BORE HOLE D5.SSF	220757.093	302
722075.828	4294193.744	8519	28-Apr-15	BORE HOLE D5.SSF	220866.913	412
722076.152	4294194.254	8520	28-Apr-15	BORE HOLE D5.SSF	220961.954	509
722075.631	4294213.307	8522	28-Apr-15	BORE HOLE D5.SSF	220557.932	159
722076.157	4294211.347	8526	28-Apr-15	BORE HOLE D5.SSF	220513.32	114
722074.568	4294201.643	8535	28-Apr-15	BORE HOLE D5.SSF	220606.036	207
722076.16	4294194.209	8543	28-Apr-15	BORE HOLE D5.SSF	220902.089	449
722076.362	4294194.337	8547	28-Apr-15	BORE HOLE D5.SSF	220933.687	481
722076.005	4294193.249	8555	28-Apr-15	BORE HOLE D5.SSF	220782.16	327

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722074.327	4294205.729	8565	28-Apr-15	BORE HOLE D5.SSF	220612.168	213
722075.859	4294194.129	8575	28-Apr-15	BORE HOLE D5.SSF	220828.02	373
722076.136	4294194.215	8580	28-Apr-15	BORE HOLE D5.SSF	220905.268	452
722077.425	4294193.9	8582	28-Apr-15	BORE HOLE D5.SSF	220785.051	330
722076.434	4294208.289	8588	28-Apr-15	BORE HOLE D5.SSF	220459.233	60
722077.431	4294194.458	8595	28-Apr-15	BORE HOLE D5.SSF	220786.044	331
722075.962	4294194.484	8603	28-Apr-15	BORE HOLE D5.SSF	220927.039	474
722076.871	4294194.896	8610	28-Apr-15	BORE HOLE D5.SSF	220775.062	320
722075.885	4294207.877	8621	28-Apr-15	BORE HOLE D5.SSF	220565.096	166
722076.127	4294194.218	8625	28-Apr-15	BORE HOLE D5.SSF	220906.022	453
722076.344	4294194.317	8630	28-Apr-15	BORE HOLE D5.SSF	220933.103	480
722075.068	4294198.618	8632	28-Apr-15	BORE HOLE D5.SSF	220756.018	301
722074.661	4294200.652	8637	28-Apr-15	BORE HOLE D5.SSF	220603.92	205
722076.189	4294194.222	8639	28-Apr-15	BORE HOLE D5.SSF	220960.811	508
722074.397	4294202.262	8643	28-Apr-15	BORE HOLE D5.SSF	220607.134	208
722075.889	4294210.04	8652	28-Apr-15	BORE HOLE D5.SSF	220561.999	163
722076.293	4294210.943	8656	28-Apr-15	BORE HOLE D5.SSF	220454.198	55
722075.837	4294193.742	8656	28-Apr-15	BORE HOLE D5.SSF	220880.903	426
722076.158	4294194.261	8659	28-Apr-15	BORE HOLE D5.SSF	220899.867	447
722076.959	4294192.631	8660	28-Apr-15	BORE HOLE D5.SSF	220805.858	351
722077.227	4294201.406	8664	28-Apr-15	BORE HOLE D5.SSF	220476.11	77
722076.121	4294194.044	8668	28-Apr-15	BORE HOLE D5.SSF	220819.905	365
722075.725	4294191.984	8669	28-Apr-15	BORE HOLE D5.SSF	220794.021	339
722077.297	4294200.739	8676	28-Apr-15	BORE HOLE D5.SSF	220477.057	78
722076.102	4294194.156	8679	28-Apr-15	BORE HOLE D5.SSF	220909.899	457
722074.384	4294206.384	8681	28-Apr-15	BORE HOLE D5.SSF	220613.102	214
722075.963	4294194.141	8682	28-Apr-15	BORE HOLE D5.SSF	220838.813	384
722076.559	4294194.619	8682	28-Apr-15	BORE HOLE D5.SSF	220944.025	491
722076.711	4294204.822	8689	28-Apr-15	BORE HOLE D5.SSF	220470.109	71
722076.36	4294194.823	8692	28-Apr-15	BORE HOLE D5.SSF	220776.094	321
722076.667	4294194.58	8710	28-Apr-15	BORE HOLE D5.SSF	220944.867	492
722075.781	4294193.733	8711	28-Apr-15	BORE HOLE D5.SSF	220864.092	409
722076.725	4294204.77	8712	28-Apr-15	BORE HOLE D5.SSF	220471.161	72
722076.687	4294204.834	8717	28-Apr-15	BORE HOLE D5.SSF	220469.207	70
722077.517	4294195.271	8717	28-Apr-15	BORE HOLE D5.SSF	220814.964	360
722074.98	4294196.661	8719	28-Apr-15	BORE HOLE D5.SSF	220597.347	198
722075.966	4294194.532	8720	28-Apr-15	BORE HOLE D5.SSF	220927.845	475
722076.372	4294209.903	8723	28-Apr-15	BORE HOLE D5.SSF	220456.313	57
722076.421	4294215.553	8726	28-Apr-15	BORE HOLE D5.SSF	220519.225	120
722076	4294194.033	8730	28-Apr-15	BORE HOLE D5.SSF	220823.884	369
722076.739	4294196.307	8732	28-Apr-15	BORE HOLE D5.SSF	220491.238	92
722075.977	4294209.746	8736	28-Apr-15	BORE HOLE D5.SSF	220511.093	112
722076.163	4294194.213	8743	28-Apr-15	BORE HOLE D5.SSF	220852.828	398
722076.387	4294215.947	8751	28-Apr-15	BORE HOLE D5.SSF	220519.818	121
722076.307	4294197.745	8753	28-Apr-15	BORE HOLE D5.SSF	220584.23	185
722075.99	4294194.042	8770	28-Apr-15	BORE HOLE D5.SSF	220840.094	385
722076.773	4294204.42	8778	28-Apr-15	BORE HOLE D5.SSF	220472.207	73

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722076.1	4294194.214	8785	28-Apr-15	BORE HOLE D5.SSF	220835.053	380
722076.162	4294212.421	8788	28-Apr-15	BORE HOLE D5.SSF	220452.037	53
722076.099	4294194.226	8789	28-Apr-15	BORE HOLE D5.SSF	220908.087	455
722077.413	4294194.883	8791	28-Apr-15	BORE HOLE D5.SSF	220812.043	357
722076.582	4294204.868	8797	28-Apr-15	BORE HOLE D5.SSF	220467.25	68
722076.437	4294193.303	8798	28-Apr-15	BORE HOLE D5.SSF	220783.014	328
722076.671	4294218.284	8803	28-Apr-15	BORE HOLE D5.SSF	220523.108	124
722074.207	4294213.314	8805	28-Apr-15	BORE HOLE D5.SSF	220623.106	224
722075.912	4294194.195	8841	28-Apr-15	BORE HOLE D5.SSF	220855.083	400
722076.116	4294204.468	8850	28-Apr-15	BORE HOLE D5.SSF	220503.87	105
722075.754	4294212.157	8850	28-Apr-15	BORE HOLE D5.SSF	220559.268	160
722077.679	4294197.461	8858	28-Apr-15	BORE HOLE D5.SSF	220482.033	83
722077.04	4294194.631	8868	28-Apr-15	BORE HOLE D5.SSF	220787.046	332
722075.021	4294197.198	8869	28-Apr-15	BORE HOLE D5.SSF	220598.152	199
722076.13	4294194.398	8877	28-Apr-15	BORE HOLE D5.SSF	220893.103	439
722076.248	4294194.085	8889	28-Apr-15	BORE HOLE D5.SSF	220821.882	367
722075.886	4294203.596	8903	28-Apr-15	BORE HOLE D5.SSF	220571.397	172
722076.026	4294208.867	8905	28-Apr-15	BORE HOLE D5.SSF	220510.102	111
722075.8	4294193.692	8907	28-Apr-15	BORE HOLE D5.SSF	220871.064	416
722075.821	4294193.716	8933	28-Apr-15	BORE HOLE D5.SSF	220883.107	428
722076.749	4294192.045	8941	28-Apr-15	BORE HOLE D5.SSF	220795.942	341
722073.677	4294208.729	8942	28-Apr-15	BORE HOLE D5.SSF	220743.875	289
722076.225	4294193.641	8951	28-Apr-15	BORE HOLE D5.SSF	220591.272	192
722075.917	4294193.8	8959	28-Apr-15	BORE HOLE D5.SSF	220890.826	436
722075.891	4294194.014	8960	28-Apr-15	BORE HOLE D5.SSF	220857.037	402
722076.369	4294210.433	8974	28-Apr-15	BORE HOLE D5.SSF	220455.208	56
722075.855	4294193.764	8974	28-Apr-15	BORE HOLE D5.SSF	220881.954	427
722075.722	4294193.077	8985	28-Apr-15	BORE HOLE D5.SSF	220792.134	337
722077.377	4294191.927	8985	28-Apr-15	BORE HOLE D5.SSF	220797.033	342
722074.892	4294200.25	9006	28-Apr-15	BORE HOLE D5.SSF	220754.083	299
722076.85	4294195.667	9010	28-Apr-15	BORE HOLE D5.SSF	220490.091	91
722076.041	4294204.949	9017	28-Apr-15	BORE HOLE D5.SSF	220569.33	170
722075.836	4294193.746	9020	28-Apr-15	BORE HOLE D5.SSF	220879.099	424
722076.456	4294209.498	9021	28-Apr-15	BORE HOLE D5.SSF	220457.143	58
722074.799	4294201.239	9026	28-Apr-15	BORE HOLE D5.SSF	220752.962	298
722077.771	4294195.063	9037	28-Apr-15	BORE HOLE D5.SSF	220813.173	358
722075.345	4294193.927	9041	28-Apr-15	BORE HOLE D5.SSF	220593.094	194
722076.711	4294193.818	9043	28-Apr-15	BORE HOLE D5.SSF	220949.927	497
722075.904	4294208.582	9045	28-Apr-15	BORE HOLE D5.SSF	220564.1	165
722075.858	4294193.758	9057	28-Apr-15	BORE HOLE D5.SSF	220885.941	431
722076.088	4294205.829	9058	28-Apr-15	BORE HOLE D5.SSF	220505.868	107
722076.172	4294194.13	9062	28-Apr-15	BORE HOLE D5.SSF	220831.951	377
722077.764	4294195.46	9065	28-Apr-15	BORE HOLE D5.SSF	220485.095	86
722076.631	4294204.852	9069	28-Apr-15	BORE HOLE D5.SSF	220468.093	69
722076.015	4294205.803	9069	28-Apr-15	BORE HOLE D5.SSF	220568.042	169
722076.459	4294206.004	9078	28-Apr-15	BORE HOLE D5.SSF	220464.07	65
722074.749	4294200.127	9108	28-Apr-15	BORE HOLE D5.SSF	220603.154	204

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722078.771	4294192.834	9108	28-Apr-15	BORE HOLE D5.SSF	220803.098	348
722075.852	4294193.748	9108	28-Apr-15	BORE HOLE D5.SSF	220884.888	430
722076.089	4294205.312	9112	28-Apr-15	BORE HOLE D5.SSF	220505.101	106
722076.15	4294203.867	9120	28-Apr-15	BORE HOLE D5.SSF	220503.109	104
722075.859	4294194.288	9138	28-Apr-15	BORE HOLE D5.SSF	220846.901	392
722075.143	4294196.023	9157	28-Apr-15	BORE HOLE D5.SSF	220760.094	305
722075.239	4294194.261	9160	28-Apr-15	BORE HOLE D5.SSF	220593.849	195
722076.091	4294194.202	9162	28-Apr-15	BORE HOLE D5.SSF	220918.963	466
722075.861	4294193.749	9167	28-Apr-15	BORE HOLE D5.SSF	220874.093	419
722076.799	4294194.097	9167	28-Apr-15	BORE HOLE D5.SSF	220945.714	493
722076.835	4294198.212	9174	28-Apr-15	BORE HOLE D5.SSF	220494.09	95
722076.35	4294213.999	9181	28-Apr-15	BORE HOLE D5.SSF	220517.089	118
722076.11	4294194.104	9197	28-Apr-15	BORE HOLE D5.SSF	220913.039	460
722077.32	4294194.826	9199	28-Apr-15	BORE HOLE D5.SSF	220815.941	361
722075.861	4294193.785	9203	28-Apr-15	BORE HOLE D5.SSF	220878.091	423
722076.075	4294194.309	9206	28-Apr-15	BORE HOLE D5.SSF	220853.826	399
722076.61	4294194.314	9207	28-Apr-15	BORE HOLE D5.SSF	220818.014	363
722076.381	4294197.085	9208	28-Apr-15	BORE HOLE D5.SSF	220585.089	186
722076.604	4294193.872	9220	28-Apr-15	BORE HOLE D5.SSF	220951.92	499
722076.128	4294194.187	9221	28-Apr-15	BORE HOLE D5.SSF	220834.06	379
722077.601	4294191.799	9236	28-Apr-15	BORE HOLE D5.SSF	220797.851	343
722075.117	4294197.292	9239	28-Apr-15	BORE HOLE D5.SSF	220757.893	303
722075.99	4294194.025	9242	28-Apr-15	BORE HOLE D5.SSF	220841.222	386
722076.03	4294210.361	9264	28-Apr-15	BORE HOLE D5.SSF	220511.887	113
722075.876	4294207.117	9265	28-Apr-15	BORE HOLE D5.SSF	220566.158	167
722075.865	4294193.779	9266	28-Apr-15	BORE HOLE D5.SSF	220887.812	433
722076.525	4294205.165	9267	28-Apr-15	BORE HOLE D5.SSF	220466.098	67
722077.226	4294194.197	9280	28-Apr-15	BORE HOLE D5.SSF	220488.114	89
722076.321	4294194.091	9284	28-Apr-15	BORE HOLE D5.SSF	220789.109	334
722076.355	4294194.043	9284	28-Apr-15	BORE HOLE D5.SSF	220955.112	502
722076.129	4294194.044	9289	28-Apr-15	BORE HOLE D5.SSF	220915.113	462
722075.846	4294210.622	9290	28-Apr-15	BORE HOLE D5.SSF	220561.215	162
722075.892	4294194.088	9292	28-Apr-15	BORE HOLE D5.SSF	220824.878	370
722076.133	4294201.048	9314	28-Apr-15	BORE HOLE D5.SSF	220577.168	178
722075	4294199.351	9331	28-Apr-15	BORE HOLE D5.SSF	220755.094	300
722076.423	4294207.776	9347	28-Apr-15	BORE HOLE D5.SSF	220460.093	61
722074.24	4294207.743	9347	28-Apr-15	BORE HOLE D5.SSF	220615.155	216
722074.127	4294211.972	9365	28-Apr-15	BORE HOLE D5.SSF	220621.172	222
722075.147	4294196.496	9390	28-Apr-15	BORE HOLE D5.SSF	220759.241	304
722075.353	4294194.801	9392	28-Apr-15	BORE HOLE D5.SSF	220762.089	307
722076.864	4294195.049	9400	28-Apr-15	BORE HOLE D5.SSF	220489.235	90
722076.545	4294194.196	9405	28-Apr-15	BORE HOLE D5.SSF	220590.157	191
722076.146	4294194.13	9411	28-Apr-15	BORE HOLE D5.SSF	220917.865	465
722076.508	4294217.577	9412	28-Apr-15	BORE HOLE D5.SSF	220522.093	123
722078.784	4294192.035	9420	28-Apr-15	BORE HOLE D5.SSF	220800.85	346
722075.361	4294194.136	9428	28-Apr-15	BORE HOLE D5.SSF	220763.096	308
722074.142	4294210.592	9447	28-Apr-15	BORE HOLE D5.SSF	220619.154	220

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722075.969	4294204.461	9454	28-Apr-15	BORE HOLE D5.SSF	220570.045	171
722076.249	4294194.352	9458	28-Apr-15	BORE HOLE D5.SSF	220940.053	487
722076.524	4294205.596	9469	28-Apr-15	BORE HOLE D5.SSF	220465.131	66
722076.111	4294194.219	9476	28-Apr-15	BORE HOLE D5.SSF	220906.84	454
722075.74	4294194.671	9493	28-Apr-15	BORE HOLE D5.SSF	220777.192	322
722075.859	4294193.945	9500	28-Apr-15	BORE HOLE D5.SSF	220858.079	403
722075.796	4294193.78	9542	28-Apr-15	BORE HOLE D5.SSF	220862.161	407
722075.827	4294193.718	9553	28-Apr-15	BORE HOLE D5.SSF	220883.898	429
722076.191	4294194.507	9569	28-Apr-15	BORE HOLE D5.SSF	220893.883	440
722075.986	4294207.87	9582	28-Apr-15	BORE HOLE D5.SSF	220509.035	110
722076.877	4294194.447	9589	28-Apr-15	BORE HOLE D5.SSF	220817.222	362
722076.311	4294213.326	9603	28-Apr-15	BORE HOLE D5.SSF	220516.111	117
722076.791	4294196.894	9623	28-Apr-15	BORE HOLE D5.SSF	220492.057	93
722076.069	4294206.56	9674	28-Apr-15	BORE HOLE D5.SSF	220507.103	108
722075.971	4294194.261	9677	28-Apr-15	BORE HOLE D5.SSF	220923.04	470
722075.858	4294193.786	9692	28-Apr-15	BORE HOLE D5.SSF	220877.012	422
722073.636	4294209.345	9730	28-Apr-15	BORE HOLE D5.SSF	220743.102	288
722076.237	4294212.724	9735	28-Apr-15	BORE HOLE D5.SSF	220515.22	116
722077.73	4294194.382	9761	28-Apr-15	BORE HOLE D5.SSF	220487.096	88
722076.012	4294207.309	9768	28-Apr-15	BORE HOLE D5.SSF	220508.166	109
722078.317	4294192.701	9807	28-Apr-15	BORE HOLE D5.SSF	220803.875	349
722075.753	4294192.352	9836	28-Apr-15	BORE HOLE D5.SSF	220793.267	338
722075.834	4294194.133	9883	28-Apr-15	BORE HOLE D5.SSF	220826.002	371
722076.082	4294194.177	9895	28-Apr-15	BORE HOLE D5.SSF	220851.712	397
722075.849	4294193.736	9909	28-Apr-15	BORE HOLE D5.SSF	220873.289	418
722076.148	4294194.065	9925	28-Apr-15	BORE HOLE D5.SSF	220917.109	464
722076.265	4294200.407	9979	28-Apr-15	BORE HOLE D5.SSF	220497.862	99
722076.404	4294196.407	10042	28-Apr-15	BORE HOLE D5.SSF	220586.142	187
722075.957	4294194.105	10061	28-Apr-15	BORE HOLE D5.SSF	220827.179	372
722076.673	4294199.057	10153	28-Apr-15	BORE HOLE D5.SSF	220495.3	96
722077.722	4294195.349	10269	28-Apr-15	BORE HOLE D5.SSF	220813.974	359
722074.237	4294209.084	10394	28-Apr-15	BORE HOLE D5.SSF	220617.092	218
722076.151	4294194.157	10485	28-Apr-15	BORE HOLE D5.SSF	220832.827	378
722075.18	4294195.39	10569	28-Apr-15	BORE HOLE D5.SSF	220761.092	306
722075.865	4294193.785	10626	28-Apr-15	BORE HOLE D5.SSF	220888.906	434
722077.92	4294191.614	10799	28-Apr-15	BORE HOLE D5.SSF	220799.043	344
722076.466	4294200.15	10999	28-Apr-15	BORE HOLE D5.SSF	220497.098	98
722123.987	4294185.23	3721	09-Jul-15	BRIDGETON BOREHOLE 0	393322.783	
722124.03	4294185.212	3514	09-Jul-15	BRIDGETON BOREHOLE 0	393323.612	
722124.088	4294185.185	3387	09-Jul-15	BRIDGETON BOREHOLE 0	393324.648	
722124.126	4294185.173	3688	09-Jul-15	BRIDGETON BOREHOLE 0	393325.542	
722124.164	4294185.149	3648	09-Jul-15	BRIDGETON BOREHOLE 0	393326.646	
722124.187	4294185.123	3483	09-Jul-15	BRIDGETON BOREHOLE 0	393327.561	
722124.208	4294185.101	3452	09-Jul-15	BRIDGETON BOREHOLE 0	393328.676	
722124.226	4294185.094	3357	09-Jul-15	BRIDGETON BOREHOLE 0	393329.793	
722124.238	4294185.088	3361	09-Jul-15	BRIDGETON BOREHOLE 0	393330.901	
722124.243	4294185.098	3351	09-Jul-15	BRIDGETON BOREHOLE 0	393331.798	

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722124.244	4294185.117	3590	09-Jul-15	BRIDGETON BOREHOLE 0	393332.795	
722124.19	4294185.142	3690	09-Jul-15	BRIDGETON BOREHOLE 0	393333.62	
722124.075	4294185.189	3782	09-Jul-15	BRIDGETON BOREHOLE 0	393334.895	
722124.039	4294185.221	3676	09-Jul-15	BRIDGETON BOREHOLE 0	393335.563	
722111.427	4294190.455	4055	09-Jul-15	BRIDGETON BOREHOLE 0	393456.887	
722111.362	4294190.412	4239	09-Jul-15	BRIDGETON BOREHOLE 0	393457.645	
722111.24	4294190.404	4042	09-Jul-15	BRIDGETON BOREHOLE 0	393458.637	
722111.165	4294190.424	3661	09-Jul-15	BRIDGETON BOREHOLE 0	393459.391	
722111.124	4294190.449	3465	09-Jul-15	BRIDGETON BOREHOLE 0	393460.555	
722111.127	4294190.457	3810	09-Jul-15	BRIDGETON BOREHOLE 0	393461.708	
722111.292	4294190.489	4256	09-Jul-15	BRIDGETON BOREHOLE 0	393462.815	
722111.342	4294190.441	4914	09-Jul-15	BRIDGETON BOREHOLE 0	393463.437	
722111.357	4294190.338	5096	09-Jul-15	BRIDGETON BOREHOLE 0	393464.587	
722111.201	4294190.244	4651	09-Jul-15	BRIDGETON BOREHOLE 0	393465.73	
722111.067	4294189.975	4904	09-Jul-15	BRIDGETON BOREHOLE 0	393466.812	
722110.972	4294189.997	4663	09-Jul-15	BRIDGETON BOREHOLE 0	393467.445	
722110.81	4294190.199	4483	09-Jul-15	BRIDGETON BOREHOLE 0	393468.589	
722110.708	4294190.599	4764	09-Jul-15	BRIDGETON BOREHOLE 0	393469.695	
722110.671	4294191.189	4135	09-Jul-15	BRIDGETON BOREHOLE 0	393470.829	
722110.608	4294191.656	4404	09-Jul-15	BRIDGETON BOREHOLE 0	393471.639	
722110.482	4294192.212	4202	09-Jul-15	BRIDGETON BOREHOLE 0	393472.711	
722110.356	4294192.675	4081	09-Jul-15	BRIDGETON BOREHOLE 0	393473.612	
722110.158	4294193.255	3968	09-Jul-15	BRIDGETON BOREHOLE 0	393474.721	
722110.005	4294193.722	3935	09-Jul-15	BRIDGETON BOREHOLE 0	393475.543	
722109.848	4294194.324	3999	09-Jul-15	BRIDGETON BOREHOLE 0	393476.766	
722109.727	4294194.692	4375	09-Jul-15	BRIDGETON BOREHOLE 0	393477.593	
722109.575	4294195.279	4785	09-Jul-15	BRIDGETON BOREHOLE 0	393478.723	
722109.476	4294195.716	5279	09-Jul-15	BRIDGETON BOREHOLE 0	393479.559	
722109.4	4294196.135	4890	09-Jul-15	BRIDGETON BOREHOLE 0	393480.467	
722109.329	4294196.661	4685	09-Jul-15	BRIDGETON BOREHOLE 0	393481.596	
722109.209	4294197.21	5238	09-Jul-15	BRIDGETON BOREHOLE 0	393482.641	
722109.067	4294197.679	4844	09-Jul-15	BRIDGETON BOREHOLE 0	393483.554	
722108.816	4294198.314	4592	09-Jul-15	BRIDGETON BOREHOLE 0	393484.614	
722108.589	4294199.066	4240	09-Jul-15	BRIDGETON BOREHOLE 0	393485.74	
722108.44	4294199.619	4447	09-Jul-15	BRIDGETON BOREHOLE 0	393486.726	
722108.253	4294200.108	4181	09-Jul-15	BRIDGETON BOREHOLE 0	393487.598	
722108.052	4294200.644	3993	09-Jul-15	BRIDGETON BOREHOLE 0	393488.47	
722107.845	4294201.355	3963	09-Jul-15	BRIDGETON BOREHOLE 0	393489.5	
722107.66	4294202.044	4067	09-Jul-15	BRIDGETON BOREHOLE 0	393490.448	
722107.301	4294202.984	4447	09-Jul-15	BRIDGETON BOREHOLE 0	393491.762	
722107.135	4294203.477	4444	09-Jul-15	BRIDGETON BOREHOLE 0	393492.599	
722107.013	4294203.892	4187	09-Jul-15	BRIDGETON BOREHOLE 0	393493.4	
722106.79	4294204.552	4088	09-Jul-15	BRIDGETON BOREHOLE 0	393494.496	
722106.37	4294205.413	3852	09-Jul-15	BRIDGETON BOREHOLE 0	393495.816	
722106.147	4294205.894	4048	09-Jul-15	BRIDGETON BOREHOLE 0	393496.563	
722105.866	4294206.501	4114	09-Jul-15	BRIDGETON BOREHOLE 0	393497.561	
722105.53	4294207.164	4437	09-Jul-15	BRIDGETON BOREHOLE 0	393498.762	

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722105.377	4294207.634	4595	09-Jul-15	BRIDGETON BOREHOLE 0	393499.633	
722105.563	4294207.911	4505	09-Jul-15	BRIDGETON BOREHOLE 0	393500.648	
722105.961	4294207.833	4469	09-Jul-15	BRIDGETON BOREHOLE 0	393501.597	
722106.159	4294207.626	4974	09-Jul-15	BRIDGETON BOREHOLE 0	393502.69	
722106.368	4294207.351	4665	09-Jul-15	BRIDGETON BOREHOLE 0	393503.78	
722106.618	4294207.099	4521	09-Jul-15	BRIDGETON BOREHOLE 0	393504.557	
722106.937	4294206.771	4898	09-Jul-15	BRIDGETON BOREHOLE 0	393505.46	
722107.328	4294206.367	4878	09-Jul-15	BRIDGETON BOREHOLE 0	393506.561	
722107.737	4294205.979	4843	09-Jul-15	BRIDGETON BOREHOLE 0	393507.579	
722108.213	4294205.506	5087	09-Jul-15	BRIDGETON BOREHOLE 0	393508.733	
722108.566	4294205.16	4796	09-Jul-15	BRIDGETON BOREHOLE 0	393509.562	
722109.051	4294204.666	4453	09-Jul-15	BRIDGETON BOREHOLE 0	393510.623	
722109.478	4294204.2	4380	09-Jul-15	BRIDGETON BOREHOLE 0	393511.618	
722109.883	4294203.767	4496	09-Jul-15	BRIDGETON BOREHOLE 0	393512.606	
722110.345	4294203.296	4044	09-Jul-15	BRIDGETON BOREHOLE 0	393513.638	
722110.85	4294202.799	4479	09-Jul-15	BRIDGETON BOREHOLE 0	393514.751	
722111.291	4294202.336	4875	09-Jul-15	BRIDGETON BOREHOLE 0	393515.767	
722111.725	4294201.859	4212	09-Jul-15	BRIDGETON BOREHOLE 0	393516.647	
722112.242	4294201.274	3876	09-Jul-15	BRIDGETON BOREHOLE 0	393517.718	
722112.716	4294200.764	4352	09-Jul-15	BRIDGETON BOREHOLE 0	393518.797	
722113.063	4294200.405	4645	09-Jul-15	BRIDGETON BOREHOLE 0	393519.535	
722113.644	4294199.846	4420	09-Jul-15	BRIDGETON BOREHOLE 0	393520.777	
722113.935	4294199.546	4725	09-Jul-15	BRIDGETON BOREHOLE 0	393521.455	
722114.425	4294199.044	4759	09-Jul-15	BRIDGETON BOREHOLE 0	393522.594	
722114.981	4294198.489	4694	09-Jul-15	BRIDGETON BOREHOLE 0	393523.714	
722115.44	4294198.04	4350	09-Jul-15	BRIDGETON BOREHOLE 0	393524.599	
722115.81	4294197.664	4014	09-Jul-15	BRIDGETON BOREHOLE 0	393525.342	
722116.318	4294197.123	4061	09-Jul-15	BRIDGETON BOREHOLE 0	393526.465	
722116.752	4294196.662	4018	09-Jul-15	BRIDGETON BOREHOLE 0	393527.484	
722117.361	4294196.012	4356	09-Jul-15	BRIDGETON BOREHOLE 0	393528.845	
722117.633	4294195.745	5083	09-Jul-15	BRIDGETON BOREHOLE 0	393529.461	
722118.189	4294195.226	5011	09-Jul-15	BRIDGETON BOREHOLE 0	393530.669	
722118.572	4294194.849	5024	09-Jul-15	BRIDGETON BOREHOLE 0	393531.455	
722119.057	4294194.337	5308	09-Jul-15	BRIDGETON BOREHOLE 0	393532.561	
722119.506	4294193.839	5228	09-Jul-15	BRIDGETON BOREHOLE 0	393533.659	
722119.927	4294193.3	5431	09-Jul-15	BRIDGETON BOREHOLE 0	393534.785	
722120.255	4294192.916	5417	09-Jul-15	BRIDGETON BOREHOLE 0	393535.6	
722120.43	4294192.467	5109	09-Jul-15	BRIDGETON BOREHOLE 0	393536.55	
722120.302	4294192.118	4681	09-Jul-15	BRIDGETON BOREHOLE 0	393537.698	
722119.909	4294191.682	4643	09-Jul-15	BRIDGETON BOREHOLE 0	393538.789	
722119.704	4294191.418	5379	09-Jul-15	BRIDGETON BOREHOLE 0	393539.338	
722119.272	4294190.926	6191	09-Jul-15	BRIDGETON BOREHOLE 0	393540.458	
722118.709	4294190.465	6197	09-Jul-15	BRIDGETON BOREHOLE 0	393541.608	
722118.127	4294189.988	6799	09-Jul-15	BRIDGETON BOREHOLE 0	393542.715	
722117.706	4294189.626	6319	09-Jul-15	BRIDGETON BOREHOLE 0	393543.564	
722117.1	4294189.149	6920	09-Jul-15	BRIDGETON BOREHOLE 0	393544.839	
722116.786	4294188.938	6890	09-Jul-15	BRIDGETON BOREHOLE 0	393545.521	

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722116.176	4294188.488	7392	09-Jul-15	BRIDGETON BOREHOLE 0	393546.75	
722115.762	4294188.205	7278	09-Jul-15	BRIDGETON BOREHOLE 0	393547.59	
722115.324	4294187.932	8839	09-Jul-15	BRIDGETON BOREHOLE 0	393548.466	
722114.784	4294187.595	8509	09-Jul-15	BRIDGETON BOREHOLE 0	393549.555	
722114.171	4294187.458	8517	09-Jul-15	BRIDGETON BOREHOLE 0	393550.717	
722113.662	4294187.507	8729	09-Jul-15	BRIDGETON BOREHOLE 0	393551.651	
722113.005	4294187.879	8482	09-Jul-15	BRIDGETON BOREHOLE 0	393552.729	
722112.588	4294188.175	8720	09-Jul-15	BRIDGETON BOREHOLE 0	393553.339	
722111.723	4294188.842	6680	09-Jul-15	BRIDGETON BOREHOLE 0	393554.737	
722111.358	4294189.203	5600	09-Jul-15	BRIDGETON BOREHOLE 0	393555.588	
722111.037	4294189.691	5430	09-Jul-15	BRIDGETON BOREHOLE 0	393556.686	
722111.025	4294190.148	4351	09-Jul-15	BRIDGETON BOREHOLE 0	393557.533	
722111.343	4294190.411	4345	09-Jul-15	BRIDGETON BOREHOLE 0	393558.453	
722111.937	4294190.249	4334	09-Jul-15	BRIDGETON BOREHOLE 0	393559.628	
722112.341	4294190.039	4425	09-Jul-15	BRIDGETON BOREHOLE 0	393560.743	
722112.67	4294189.973	4049	09-Jul-15	BRIDGETON BOREHOLE 0	393561.723	
722112.975	4294189.868	3915	09-Jul-15	BRIDGETON BOREHOLE 0	393562.622	
722113.231	4294189.763	4002	09-Jul-15	BRIDGETON BOREHOLE 0	393563.476	
722113.508	4294189.579	4012	09-Jul-15	BRIDGETON BOREHOLE 0	393564.54	
722113.803	4294189.351	4548	09-Jul-15	BRIDGETON BOREHOLE 0	393565.484	
722114.228	4294189.069	5963	09-Jul-15	BRIDGETON BOREHOLE 0	393566.598	
722114.57	4294188.816	6451	09-Jul-15	BRIDGETON BOREHOLE 0	393567.64	
722114.943	4294188.589	7612	09-Jul-15	BRIDGETON BOREHOLE 0	393568.763	
722115.18	4294188.61	8323	09-Jul-15	BRIDGETON BOREHOLE 0	393569.537	
722115.371	4294188.768	7661	09-Jul-15	BRIDGETON BOREHOLE 0	393570.492	
722115.399	4294189.072	6895	09-Jul-15	BRIDGETON BOREHOLE 0	393571.643	
722115.334	4294189.378	6433	09-Jul-15	BRIDGETON BOREHOLE 0	393572.51	
722115.087	4294189.627	7278	09-Jul-15	BRIDGETON BOREHOLE 0	393573.563	
722114.627	4294189.748	7579	09-Jul-15	BRIDGETON BOREHOLE 0	393574.751	
722114.367	4294189.834	6484	09-Jul-15	BRIDGETON BOREHOLE 0	393575.623	
722114.037	4294189.945	5806	09-Jul-15	BRIDGETON BOREHOLE 0	393576.601	
722113.583	4294190.093	5381	09-Jul-15	BRIDGETON BOREHOLE 0	393577.733	
722113.139	4294190.229	4864	09-Jul-15	BRIDGETON BOREHOLE 0	393578.798	
722112.738	4294190.344	4738	09-Jul-15	BRIDGETON BOREHOLE 0	393579.694	
722112.268	4294190.481	4360	09-Jul-15	BRIDGETON BOREHOLE 0	393580.768	
722111.875	4294190.622	4672	09-Jul-15	BRIDGETON BOREHOLE 0	393581.605	
722111.384	4294190.773	4263	09-Jul-15	BRIDGETON BOREHOLE 0	393582.686	
722111.141	4294190.918	3999	09-Jul-15	BRIDGETON BOREHOLE 0	393583.348	
722111.093	4294191.337	4119	09-Jul-15	BRIDGETON BOREHOLE 0	393584.661	
722111.436	4294191.439	4185	09-Jul-15	BRIDGETON BOREHOLE 0	393585.544	
722112.083	4294191.246	4079	09-Jul-15	BRIDGETON BOREHOLE 0	393586.759	
722112.574	4294191.152	4054	09-Jul-15	BRIDGETON BOREHOLE 0	393587.599	
722113.005	4294191.008	3915	09-Jul-15	BRIDGETON BOREHOLE 0	393588.595	
722113.411	4294190.694	3887	09-Jul-15	BRIDGETON BOREHOLE 0	393589.692	
722113.792	4294190.376	4072	09-Jul-15	BRIDGETON BOREHOLE 0	393590.811	
722114.04	4294190.186	4511	09-Jul-15	BRIDGETON BOREHOLE 0	393591.492	
722114.458	4294189.917	5042	09-Jul-15	BRIDGETON BOREHOLE 0	393592.594	

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722114.817	4294189.517	5963	09-Jul-15	BRIDGETON BOREHOLE 0	393593.715	
722115.054	4294189.171	5416	09-Jul-15	BRIDGETON BOREHOLE 0	393594.481	
722115.396	4294188.877	6264	09-Jul-15	BRIDGETON BOREHOLE 0	393595.621	
722115.621	4294189.033	6876	09-Jul-15	BRIDGETON BOREHOLE 0	393596.596	
722115.838	4294189.121	6438	09-Jul-15	BRIDGETON BOREHOLE 0	393597.479	
722116.004	4294188.74	6329	09-Jul-15	BRIDGETON BOREHOLE 0	393598.593	
722116.07	4294188.358	7792	09-Jul-15	BRIDGETON BOREHOLE 0	393599.599	
722116.392	4294188.417	8728	09-Jul-15	BRIDGETON BOREHOLE 0	393600.72	
722116.668	4294188.517	6592	09-Jul-15	BRIDGETON BOREHOLE 0	393601.452	
722116.852	4294188.319	7678	09-Jul-15	BRIDGETON BOREHOLE 0	393602.5	
722116.983	4294187.954	8069	09-Jul-15	BRIDGETON BOREHOLE 0	393603.592	
722117.391	4294188.055	6817	09-Jul-15	BRIDGETON BOREHOLE 0	393604.733	
722117.665	4294188.136	7224	09-Jul-15	BRIDGETON BOREHOLE 0	393605.487	
722117.989	4294188.3	7566	09-Jul-15	BRIDGETON BOREHOLE 0	393606.473	
722118.313	4294188.696	8191	09-Jul-15	BRIDGETON BOREHOLE 0	393607.541	
722118.32	4294189.057	7207	09-Jul-15	BRIDGETON BOREHOLE 0	393608.631	
722117.913	4294189.097	6842	09-Jul-15	BRIDGETON BOREHOLE 0	393609.617	
722117.489	4294189.117	6720	09-Jul-15	BRIDGETON BOREHOLE 0	393610.598	
722117.233	4294189.356	8400	09-Jul-15	BRIDGETON BOREHOLE 0	393611.49	
722116.874	4294189.606	6450	09-Jul-15	BRIDGETON BOREHOLE 0	393612.611	
722116.549	4294189.677	7762	09-Jul-15	BRIDGETON BOREHOLE 0	393613.412	
722116.055	4294189.83	6410	09-Jul-15	BRIDGETON BOREHOLE 0	393614.526	
722115.584	4294190.042	7392	09-Jul-15	BRIDGETON BOREHOLE 0	393615.639	
722115.071	4294190.236	6468	09-Jul-15	BRIDGETON BOREHOLE 0	393616.744	
722114.609	4294190.3	5877	09-Jul-15	BRIDGETON BOREHOLE 0	393617.628	
722114.101	4294190.445	6314	09-Jul-15	BRIDGETON BOREHOLE 0	393618.652	
722113.691	4294190.666	5397	09-Jul-15	BRIDGETON BOREHOLE 0	393619.518	
722113.207	4294190.975	5091	09-Jul-15	BRIDGETON BOREHOLE 0	393620.607	
722112.773	4294191.196	5128	09-Jul-15	BRIDGETON BOREHOLE 0	393621.602	
722112.27	4294191.299	4865	09-Jul-15	BRIDGETON BOREHOLE 0	393622.76	
722111.988	4294191.359	4634	09-Jul-15	BRIDGETON BOREHOLE 0	393623.375	
722111.427	4294191.544	4436	09-Jul-15	BRIDGETON BOREHOLE 0	393624.515	
722111.002	4294191.745	4580	09-Jul-15	BRIDGETON BOREHOLE 0	393625.369	
722110.517	4294192.202	4766	09-Jul-15	BRIDGETON BOREHOLE 0	393626.635	
722110.372	4294192.659	4608	09-Jul-15	BRIDGETON BOREHOLE 0	393627.499	
722110.901	4294192.97	4294	09-Jul-15	BRIDGETON BOREHOLE 0	393628.83	
722111.326	4294192.941	4418	09-Jul-15	BRIDGETON BOREHOLE 0	393629.496	
722111.911	4294192.872	4180	09-Jul-15	BRIDGETON BOREHOLE 0	393630.626	
722112.313	4294192.874	4368	09-Jul-15	BRIDGETON BOREHOLE 0	393631.389	
722112.926	4294192.778	4085	09-Jul-15	BRIDGETON BOREHOLE 0	393632.505	
722113.518	4294192.428	3798	09-Jul-15	BRIDGETON BOREHOLE 0	393633.725	
722113.86	4294192.204	4143	09-Jul-15	BRIDGETON BOREHOLE 0	393634.53	
722114.326	4294191.916	4783	09-Jul-15	BRIDGETON BOREHOLE 0	393635.62	
722114.765	4294191.679	5630	09-Jul-15	BRIDGETON BOREHOLE 0	393636.538	
722115.243	4294191.431	5927	09-Jul-15	BRIDGETON BOREHOLE 0	393637.596	
722115.785	4294191.19	6932	09-Jul-15	BRIDGETON BOREHOLE 0	393638.739	
722116.076	4294191.018	7733	09-Jul-15	BRIDGETON BOREHOLE 0	393639.339	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722116.572	4294190.634	6583	09-Jul-15	BRIDGETON BOREHOLE 0	393640.51	
722116.867	4294190.218	6626	09-Jul-15	BRIDGETON BOREHOLE 0	393641.59	
722117.061	4294189.66	7056	09-Jul-15	BRIDGETON BOREHOLE 0	393642.704	
722117.48	4294189.478	6444	09-Jul-15	BRIDGETON BOREHOLE 0	393643.596	
722117.979	4294189.407	6831	09-Jul-15	BRIDGETON BOREHOLE 0	393644.633	
722118.281	4294189.241	7167	09-Jul-15	BRIDGETON BOREHOLE 0	393645.494	
722118.702	4294189.336	8452	09-Jul-15	BRIDGETON BOREHOLE 0	393646.59	
722119.059	4294189.734	7063	09-Jul-15	BRIDGETON BOREHOLE 0	393647.697	
722119.072	4294189.813	7495	09-Jul-15	BRIDGETON BOREHOLE 0	393648.716	
722119.051	4294189.804	7034	09-Jul-15	BRIDGETON BOREHOLE 0	393649.559	
722119.48	4294189.847	6669	09-Jul-15	BRIDGETON BOREHOLE 0	393698.452	
722119.49	4294189.931	5897	09-Jul-15	BRIDGETON BOREHOLE 0	393699.39	
722119.582	4294190.043	7806	09-Jul-15	BRIDGETON BOREHOLE 0	393700.463	
722119.91	4294189.955	6571	09-Jul-15	BRIDGETON BOREHOLE 0	393701.597	
722120.331	4294189.805	5962	09-Jul-15	BRIDGETON BOREHOLE 0	393702.646	
722120.598	4294189.838	6091	09-Jul-15	BRIDGETON BOREHOLE 0	393703.461	
722120.771	4294190.035	5644	09-Jul-15	BRIDGETON BOREHOLE 0	393704.554	
722120.803	4294190.13	5019	09-Jul-15	BRIDGETON BOREHOLE 0	393705.343	
722120.848	4294190.182	5096	09-Jul-15	BRIDGETON BOREHOLE 0	393706.375	
722120.919	4294190.377	4752	09-Jul-15	BRIDGETON BOREHOLE 0	393707.636	
722120.82	4294190.497	4582	09-Jul-15	BRIDGETON BOREHOLE 0	393708.698	
722120.678	4294190.438	4850	09-Jul-15	BRIDGETON BOREHOLE 0	393709.457	
722120.396	4294190.274	5098	09-Jul-15	BRIDGETON BOREHOLE 0	393710.598	
722120.201	4294190.091	4953	09-Jul-15	BRIDGETON BOREHOLE 0	393711.547	
722119.86	4294190.046	5321	09-Jul-15	BRIDGETON BOREHOLE 0	393712.744	
722119.673	4294190.136	5205	09-Jul-15	BRIDGETON BOREHOLE 0	393713.339	
722119.475	4294190.517	5163	09-Jul-15	BRIDGETON BOREHOLE 0	393714.484	
722119.341	4294191.083	5394	09-Jul-15	BRIDGETON BOREHOLE 0	393715.546	
722119.225	4294191.443	5666	09-Jul-15	BRIDGETON BOREHOLE 0	393716.489	
722119.135	4294191.38	5730	09-Jul-15	BRIDGETON BOREHOLE 0	393717.527	
722118.923	4294191.255	5885	09-Jul-15	BRIDGETON BOREHOLE 0	393718.578	
722118.748	4294191.107	5440	09-Jul-15	BRIDGETON BOREHOLE 0	393719.456	
722118.429	4294191.025	5482	09-Jul-15	BRIDGETON BOREHOLE 0	393720.712	
722118.158	4294191.217	5611	09-Jul-15	BRIDGETON BOREHOLE 0	393721.51	
722117.816	4294191.488	5429	09-Jul-15	BRIDGETON BOREHOLE 0	393722.54	
722117.605	4294191.832	5581	09-Jul-15	BRIDGETON BOREHOLE 0	393723.468	
722117.385	4294192.152	5824	09-Jul-15	BRIDGETON BOREHOLE 0	393724.522	
722117.167	4294192.182	5919	09-Jul-15	BRIDGETON BOREHOLE 0	393725.405	
722116.972	4294191.896	5699	09-Jul-15	BRIDGETON BOREHOLE 0	393726.647	
722116.875	4294191.678	5546	09-Jul-15	BRIDGETON BOREHOLE 0	393727.371	
722116.674	4294191.447	6067	09-Jul-15	BRIDGETON BOREHOLE 0	393728.384	
722116.182	4294191.613	6586	09-Jul-15	BRIDGETON BOREHOLE 0	393729.625	
722115.866	4294192.042	5576	09-Jul-15	BRIDGETON BOREHOLE 0	393730.559	
722115.781	4294192.342	6831	09-Jul-15	BRIDGETON BOREHOLE 0	393731.411	
722115.775	4294192.453	7107	09-Jul-15	BRIDGETON BOREHOLE 0	393732.546	
722115.631	4294192.278	6787	09-Jul-15	BRIDGETON BOREHOLE 0	393733.495	
722115.43	4294191.976	6406	09-Jul-15	BRIDGETON BOREHOLE 0	393734.582	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722115.184	4294191.77	6491	09-Jul-15	BRIDGETON BOREHOLE 0	393735.493	
722114.863	4294191.74	7383	09-Jul-15	BRIDGETON BOREHOLE 0	393736.506	
722114.639	4294192.037	7275	09-Jul-15	BRIDGETON BOREHOLE 0	393737.331	
722114.283	4294192.803	6828	09-Jul-15	BRIDGETON BOREHOLE 0	393738.636	
722114.27	4294193.146	6837	09-Jul-15	BRIDGETON BOREHOLE 0	393739.649	
722114.192	4294193.039	6209	09-Jul-15	BRIDGETON BOREHOLE 0	393740.777	
722113.974	4294192.775	5542	09-Jul-15	BRIDGETON BOREHOLE 0	393741.636	
722113.663	4294192.697	5097	09-Jul-15	BRIDGETON BOREHOLE 0	393742.605	
722113.323	4294192.734	5049	09-Jul-15	BRIDGETON BOREHOLE 0	393743.472	
722113.095	4294192.947	4528	09-Jul-15	BRIDGETON BOREHOLE 0	393744.589	
722113.084	4294193.314	4879	09-Jul-15	BRIDGETON BOREHOLE 0	393745.483	
722112.937	4294193.634	5512	09-Jul-15	BRIDGETON BOREHOLE 0	393746.621	
722112.706	4294193.732	5110	09-Jul-15	BRIDGETON BOREHOLE 0	393747.492	
722112.281	4294193.808	4944	09-Jul-15	BRIDGETON BOREHOLE 0	393748.586	
722111.854	4294193.9	5031	09-Jul-15	BRIDGETON BOREHOLE 0	393749.437	
722111.207	4294194.016	4600	09-Jul-15	BRIDGETON BOREHOLE 0	393750.581	
722110.647	4294194.109	4177	09-Jul-15	BRIDGETON BOREHOLE 0	393751.493	
722110.117	4294194.331	4052	09-Jul-15	BRIDGETON BOREHOLE 0	393752.604	
722109.827	4294194.897	4304	09-Jul-15	BRIDGETON BOREHOLE 0	393753.665	
722109.737	4294195.274	4371	09-Jul-15	BRIDGETON BOREHOLE 0	393754.409	
722109.768	4294195.677	4236	09-Jul-15	BRIDGETON BOREHOLE 0	393755.591	
722110.058	4294195.745	4490	09-Jul-15	BRIDGETON BOREHOLE 0	393756.626	
722110.431	4294195.646	4483	09-Jul-15	BRIDGETON BOREHOLE 0	393757.331	
722111.141	4294195.644	4337	09-Jul-15	BRIDGETON BOREHOLE 0	393758.644	
722111.515	4294195.742	4397	09-Jul-15	BRIDGETON BOREHOLE 0	393759.31	
722112.331	4294195.589	4348	09-Jul-15	BRIDGETON BOREHOLE 0	393760.808	
722112.651	4294195.516	4401	09-Jul-15	BRIDGETON BOREHOLE 0	393761.401	
722113.23	4294195.428	4534	09-Jul-15	BRIDGETON BOREHOLE 0	393762.449	
722113.947	4294195.368	5010	09-Jul-15	BRIDGETON BOREHOLE 0	393763.704	
722114.239	4294195.133	5421	09-Jul-15	BRIDGETON BOREHOLE 0	393764.52	
722114.491	4294194.637	4909	09-Jul-15	BRIDGETON BOREHOLE 0	393765.635	
722114.599	4294194.607	5724	09-Jul-15	BRIDGETON BOREHOLE 0	393766.657	
722114.835	4294194.974	5754	09-Jul-15	BRIDGETON BOREHOLE 0	393767.687	
722115.045	4294195.145	5367	09-Jul-15	BRIDGETON BOREHOLE 0	393768.501	
722115.548	4294195.028	5096	09-Jul-15	BRIDGETON BOREHOLE 0	393769.603	
722115.952	4294194.646	5086	09-Jul-15	BRIDGETON BOREHOLE 0	393770.627	
722116.065	4294194.518	6281	09-Jul-15	BRIDGETON BOREHOLE 0	393771.36	
722116.28	4294194.573	5730	09-Jul-15	BRIDGETON BOREHOLE 0	393772.377	
722116.695	4294194.597	4978	09-Jul-15	BRIDGETON BOREHOLE 0	393773.431	
722117.065	4294194.451	4518	09-Jul-15	BRIDGETON BOREHOLE 0	393774.739	
722117.258	4294194.29	5886	09-Jul-15	BRIDGETON BOREHOLE 0	393775.384	
722117.457	4294194.042	5741	09-Jul-15	BRIDGETON BOREHOLE 0	393776.682	
722117.635	4294194.035	6097	09-Jul-15	BRIDGETON BOREHOLE 0	393777.369	
722118.121	4294194.124	5784	09-Jul-15	BRIDGETON BOREHOLE 0	393778.42	
722118.446	4294193.963	5998	09-Jul-15	BRIDGETON BOREHOLE 0	393779.436	
722118.633	4294193.536	5279	09-Jul-15	BRIDGETON BOREHOLE 0	393780.633	
722118.759	4294193.338	5400	09-Jul-15	BRIDGETON BOREHOLE 0	393781.35	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722119.032	4294193.053	6052	09-Jul-15	BRIDGETON BOREHOLE 0	393782.632	
722119.278	4294192.937	5474	09-Jul-15	BRIDGETON BOREHOLE 0	393783.479	
722119.587	4294192.631	6897	09-Jul-15	BRIDGETON BOREHOLE 0	393784.664	
722119.715	4294192.343	6081	09-Jul-15	BRIDGETON BOREHOLE 0	393785.507	
722119.887	4294192.131	5895	09-Jul-15	BRIDGETON BOREHOLE 0	393786.459	
722120.033	4294192.018	5731	09-Jul-15	BRIDGETON BOREHOLE 0	393787.366	
722120.159	4294191.965	5564	09-Jul-15	BRIDGETON BOREHOLE 0	393788.367	
722120.448	4294191.834	5177	09-Jul-15	BRIDGETON BOREHOLE 0	393789.645	
722120.688	4294191.486	5409	09-Jul-15	BRIDGETON BOREHOLE 0	393790.718	
722120.849	4294191.401	5173	09-Jul-15	BRIDGETON BOREHOLE 0	393791.51	
722121.141	4294191.432	4829	09-Jul-15	BRIDGETON BOREHOLE 0	393792.606	
722121.017	4294191.419	4494	09-Jul-15	BRIDGETON BOREHOLE 0	393793.628	
722120.782	4294191.513	4485	09-Jul-15	BRIDGETON BOREHOLE 0	393794.724	
722120.622	4294191.647	4503	09-Jul-15	BRIDGETON BOREHOLE 0	393795.549	
722120.296	4294191.918	4790	09-Jul-15	BRIDGETON BOREHOLE 0	393796.597	
722119.906	4294192.254	5072	09-Jul-15	BRIDGETON BOREHOLE 0	393797.476	
722119.541	4294192.616	5350	09-Jul-15	BRIDGETON BOREHOLE 0	393798.468	
722119.256	4294192.921	5297	09-Jul-15	BRIDGETON BOREHOLE 0	393799.439	
722118.841	4294193.197	5087	09-Jul-15	BRIDGETON BOREHOLE 0	393800.579	
722118.567	4294193.387	4601	09-Jul-15	BRIDGETON BOREHOLE 0	393801.427	
722118.197	4294193.698	4628	09-Jul-15	BRIDGETON BOREHOLE 0	393802.517	
722117.851	4294193.93	5093	09-Jul-15	BRIDGETON BOREHOLE 0	393803.357	
722117.368	4294194.208	4830	09-Jul-15	BRIDGETON BOREHOLE 0	393804.411	
722116.788	4294194.578	5537	09-Jul-15	BRIDGETON BOREHOLE 0	393805.654	
722116.447	4294194.899	5049	09-Jul-15	BRIDGETON BOREHOLE 0	393806.654	
722116.185	4294195.093	4948	09-Jul-15	BRIDGETON BOREHOLE 0	393807.372	
722115.73	4294195.308	5123	09-Jul-15	BRIDGETON BOREHOLE 0	393808.592	
722115.478	4294195.28	4824	09-Jul-15	BRIDGETON BOREHOLE 0	393809.448	
722115.105	4294195.235	4941	09-Jul-15	BRIDGETON BOREHOLE 0	393810.464	
722114.608	4294195.272	4684	09-Jul-15	BRIDGETON BOREHOLE 0	393811.552	
722114.254	4294195.21	5230	09-Jul-15	BRIDGETON BOREHOLE 0	393812.548	
722113.965	4294195.132	4877	09-Jul-15	BRIDGETON BOREHOLE 0	393813.503	
722113.578	4294195.293	4768	09-Jul-15	BRIDGETON BOREHOLE 0	393814.591	
722113.193	4294195.52	5382	09-Jul-15	BRIDGETON BOREHOLE 0	393815.636	
722112.972	4294195.761	5217	09-Jul-15	BRIDGETON BOREHOLE 0	393816.664	
722112.874	4294195.833	5087	09-Jul-15	BRIDGETON BOREHOLE 0	393817.367	
722112.695	4294195.652	4759	09-Jul-15	BRIDGETON BOREHOLE 0	393818.408	
722112.533	4294195.453	4214	09-Jul-15	BRIDGETON BOREHOLE 0	393819.456	
722112.231	4294195.553	4114	09-Jul-15	BRIDGETON BOREHOLE 0	393820.555	
722111.881	4294195.655	4594	09-Jul-15	BRIDGETON BOREHOLE 0	393821.356	
722111.562	4294195.761	5044	09-Jul-15	BRIDGETON BOREHOLE 0	393822.407	
722111.294	4294195.742	5064	09-Jul-15	BRIDGETON BOREHOLE 0	393823.643	
722111.082	4294195.748	4971	09-Jul-15	BRIDGETON BOREHOLE 0	393824.624	
722110.877	4294195.886	4934	09-Jul-15	BRIDGETON BOREHOLE 0	393825.444	
722110.502	4294195.934	4132	09-Jul-15	BRIDGETON BOREHOLE 0	393826.628	
722110.312	4294195.888	3997	09-Jul-15	BRIDGETON BOREHOLE 0	393827.381	
722110.069	4294195.727	4178	09-Jul-15	BRIDGETON BOREHOLE 0	393828.606	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722109.828	4294195.678	4097	09-Jul-15	BRIDGETON BOREHOLE 0	393829.606	
722109.537	4294195.829	4231	09-Jul-15	BRIDGETON BOREHOLE 0	393830.716	
722109.266	4294195.823	4037	09-Jul-15	BRIDGETON BOREHOLE 0	393831.609	
722109.143	4294196.002	4611	09-Jul-15	BRIDGETON BOREHOLE 0	393832.663	
722109.202	4294196.36	4478	09-Jul-15	BRIDGETON BOREHOLE 0	393833.458	
722109.22	4294196.708	4377	09-Jul-15	BRIDGETON BOREHOLE 0	393834.451	
722109.119	4294196.994	4211	09-Jul-15	BRIDGETON BOREHOLE 0	393835.531	
722109.045	4294197.556	4401	09-Jul-15	BRIDGETON BOREHOLE 0	393836.635	
722109.125	4294197.751	4298	09-Jul-15	BRIDGETON BOREHOLE 0	393837.39	
722109.617	4294197.469	4405	09-Jul-15	BRIDGETON BOREHOLE 0	393838.636	
722109.945	4294197.415	4248	09-Jul-15	BRIDGETON BOREHOLE 0	393839.412	
722110.203	4294197.636	4377	09-Jul-15	BRIDGETON BOREHOLE 0	393840.449	
722110.389	4294197.681	4202	09-Jul-15	BRIDGETON BOREHOLE 0	393841.486	
722110.742	4294197.635	4238	09-Jul-15	BRIDGETON BOREHOLE 0	393842.597	
722110.958	4294197.814	4244	09-Jul-15	BRIDGETON BOREHOLE 0	393843.361	
722111.097	4294198.186	4502	09-Jul-15	BRIDGETON BOREHOLE 0	393844.636	
722111.435	4294198.2	4302	09-Jul-15	BRIDGETON BOREHOLE 0	393845.434	
722111.982	4294198.063	4625	09-Jul-15	BRIDGETON BOREHOLE 0	393846.397	
722112.183	4294197.913	4274	09-Jul-15	BRIDGETON BOREHOLE 0	393847.361	
722112.124	4294197.879	5149	09-Jul-15	BRIDGETON BOREHOLE 0	393848.451	
722112.026	4294197.865	5289	09-Jul-15	BRIDGETON BOREHOLE 0	393849.254	
722111.881	4294197.899	5540	09-Jul-15	BRIDGETON BOREHOLE 0	393850.353	
722111.993	4294197.857	5321	09-Jul-15	BRIDGETON BOREHOLE 0	393851.343	
722112.522	4294197.928	5640	09-Jul-15	BRIDGETON BOREHOLE 0	393852.443	
722112.854	4294198.095	5700	09-Jul-15	BRIDGETON BOREHOLE 0	393853.459	
722113.047	4294198.375	5538	09-Jul-15	BRIDGETON BOREHOLE 0	393854.59	
722113.171	4294198.578	4863	09-Jul-15	BRIDGETON BOREHOLE 0	393855.361	
722113.303	4294198.442	5090	09-Jul-15	BRIDGETON BOREHOLE 0	393856.657	
722113.335	4294198.14	4948	09-Jul-15	BRIDGETON BOREHOLE 0	393857.462	
722113.442	4294197.901	5026	09-Jul-15	BRIDGETON BOREHOLE 0	393858.613	
722113.525	4294197.772	4657	09-Jul-15	BRIDGETON BOREHOLE 0	393859.518	
722113.673	4294197.416	4689	09-Jul-15	BRIDGETON BOREHOLE 0	393860.622	
722113.864	4294197.138	3898	09-Jul-15	BRIDGETON BOREHOLE 0	393861.352	
722114.153	4294196.846	4203	09-Jul-15	BRIDGETON BOREHOLE 0	393862.487	
722114.427	4294196.786	4494	09-Jul-15	BRIDGETON BOREHOLE 0	393863.563	
722114.725	4294196.568	4253	09-Jul-15	BRIDGETON BOREHOLE 0	393864.611	
722114.952	4294196.275	4747	09-Jul-15	BRIDGETON BOREHOLE 0	393865.461	
722115.183	4294196.117	5392	09-Jul-15	BRIDGETON BOREHOLE 0	393866.504	
722115.44	4294195.923	5381	09-Jul-15	BRIDGETON BOREHOLE 0	393867.604	
722115.684	4294195.696	5029	09-Jul-15	BRIDGETON BOREHOLE 0	393868.461	
722115.875	4294195.606	4846	09-Jul-15	BRIDGETON BOREHOLE 0	393869.506	
722116.029	4294195.563	5133	09-Jul-15	BRIDGETON BOREHOLE 0	393870.381	
722116.368	4294195.402	5482	09-Jul-15	BRIDGETON BOREHOLE 0	393871.597	
722116.68	4294195.384	5116	09-Jul-15	BRIDGETON BOREHOLE 0	393872.618	
722116.863	4294195.481	4955	09-Jul-15	BRIDGETON BOREHOLE 0	393873.346	
722116.96	4294195.56	4977	09-Jul-15	BRIDGETON BOREHOLE 0	393874.347	
722116.836	4294195.356	5267	09-Jul-15	BRIDGETON BOREHOLE 0	393875.383	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722116.572	4294195.385	5310	09-Jul-15	BRIDGETON BOREHOLE 0	393876.604	
722116.54	4294195.669	5349	09-Jul-15	BRIDGETON BOREHOLE 0	393877.449	
722116.592	4294195.952	5259	09-Jul-15	BRIDGETON BOREHOLE 0	393878.451	
722116.479	4294196.007	5013	09-Jul-15	BRIDGETON BOREHOLE 0	393879.292	
722116.213	4294196.131	5122	09-Jul-15	BRIDGETON BOREHOLE 0	393880.375	
722116.092	4294196.432	5041	09-Jul-15	BRIDGETON BOREHOLE 0	393881.366	
722115.827	4294196.783	5033	09-Jul-15	BRIDGETON BOREHOLE 0	393882.605	
722115.672	4294196.86	5096	09-Jul-15	BRIDGETON BOREHOLE 0	393883.394	
722115.387	4294196.835	5094	09-Jul-15	BRIDGETON BOREHOLE 0	393884.457	
722115.096	4294196.972	5032	09-Jul-15	BRIDGETON BOREHOLE 0	393885.453	
722114.818	4294197.475	5951	09-Jul-15	BRIDGETON BOREHOLE 0	393886.493	
722114.583	4294197.728	5905	09-Jul-15	BRIDGETON BOREHOLE 0	393887.342	
722114.518	4294197.849	5451	09-Jul-15	BRIDGETON BOREHOLE 0	393888.361	
722114.507	4294198.174	5039	09-Jul-15	BRIDGETON BOREHOLE 0	393889.432	
722114.206	4294198.413	5287	09-Jul-15	BRIDGETON BOREHOLE 0	393890.553	
722114.036	4294198.551	4631	09-Jul-15	BRIDGETON BOREHOLE 0	393891.468	
722114.104	4294198.911	4712	09-Jul-15	BRIDGETON BOREHOLE 0	393892.489	
722114.145	4294199.48	4368	09-Jul-15	BRIDGETON BOREHOLE 0	393893.522	
722114.15	4294199.746	5044	09-Jul-15	BRIDGETON BOREHOLE 0	393894.591	
722114.029	4294199.582	4840	09-Jul-15	BRIDGETON BOREHOLE 0	393895.551	
722113.808	4294199.341	4695	09-Jul-15	BRIDGETON BOREHOLE 0	393896.559	
722113.551	4294199.206	5393	09-Jul-15	BRIDGETON BOREHOLE 0	393897.347	
722113.133	4294199.044	5396	09-Jul-15	BRIDGETON BOREHOLE 0	393898.439	
722112.831	4294199.177	4655	09-Jul-15	BRIDGETON BOREHOLE 0	393899.482	
722112.432	4294199.737	4358	09-Jul-15	BRIDGETON BOREHOLE 0	393900.624	
722112.379	4294200.091	3966	09-Jul-15	BRIDGETON BOREHOLE 0	393901.455	
722112.42	4294200.261	3974	09-Jul-15	BRIDGETON BOREHOLE 0	393902.488	
722112.258	4294200.212	4087	09-Jul-15	BRIDGETON BOREHOLE 0	393903.333	
722111.914	4294200.169	3919	09-Jul-15	BRIDGETON BOREHOLE 0	393904.396	
722111.63	4294200.081	3798	09-Jul-15	BRIDGETON BOREHOLE 0	393905.456	
722111.298	4294199.896	3731	09-Jul-15	BRIDGETON BOREHOLE 0	393906.398	
722110.848	4294199.694	3801	09-Jul-15	BRIDGETON BOREHOLE 0	393907.456	
722110.259	4294199.549	3929	09-Jul-15	BRIDGETON BOREHOLE 0	393908.538	
722109.846	4294199.542	4049	09-Jul-15	BRIDGETON BOREHOLE 0	393909.251	
722109.209	4294199.484	3927	09-Jul-15	BRIDGETON BOREHOLE 0	393910.41	
722108.753	4294199.528	4269	09-Jul-15	BRIDGETON BOREHOLE 0	393911.27	
722108.252	4294199.797	3873	09-Jul-15	BRIDGETON BOREHOLE 0	393912.346	
722107.926	4294200.458	3810	09-Jul-15	BRIDGETON BOREHOLE 0	393913.464	
722107.83	4294200.958	3645	09-Jul-15	BRIDGETON BOREHOLE 0	393914.503	
722107.835	4294201.326	3465	09-Jul-15	BRIDGETON BOREHOLE 0	393915.376	
722108.087	4294201.775	3536	09-Jul-15	BRIDGETON BOREHOLE 0	393916.663	
722108.365	4294201.965	3609	09-Jul-15	BRIDGETON BOREHOLE 0	393917.371	
722108.856	4294202.184	3719	09-Jul-15	BRIDGETON BOREHOLE 0	393918.345	
722109.437	4294202.392	3806	09-Jul-15	BRIDGETON BOREHOLE 0	393919.412	
722109.928	4294202.5	3760	09-Jul-15	BRIDGETON BOREHOLE 0	393920.414	
722110.437	4294202.487	3880	09-Jul-15	BRIDGETON BOREHOLE 0	393921.442	
722110.97	4294202.488	4107	09-Jul-15	BRIDGETON BOREHOLE 0	393922.525	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722111.549	4294202.129	4283	09-Jul-15	BRIDGETON BOREHOLE 0	393923.648	
722111.847	4294201.886	4794	09-Jul-15	BRIDGETON BOREHOLE 0	393924.334	
722112.147	4294201.855	4489	09-Jul-15	BRIDGETON BOREHOLE 0	393925.448	
722112.225	4294201.993	4737	09-Jul-15	BRIDGETON BOREHOLE 0	393926.496	
722112.096	4294201.944	4337	09-Jul-15	BRIDGETON BOREHOLE 0	393927.352	
722111.783	4294201.842	4255	09-Jul-15	BRIDGETON BOREHOLE 0	393928.489	
722111.349	4294201.831	3960	09-Jul-15	BRIDGETON BOREHOLE 0	393929.612	
722110.895	4294201.933	3947	09-Jul-15	BRIDGETON BOREHOLE 0	393930.62	
722110.614	4294202.204	3984	09-Jul-15	BRIDGETON BOREHOLE 0	393931.493	
722110.425	4294202.77	3973	09-Jul-15	BRIDGETON BOREHOLE 0	393932.597	
722110.419	4294203.261	4106	09-Jul-15	BRIDGETON BOREHOLE 0	393933.612	
722110.436	4294203.724	4282	09-Jul-15	BRIDGETON BOREHOLE 0	393934.507	
722110.412	4294204.041	4321	09-Jul-15	BRIDGETON BOREHOLE 0	393935.421	
722110.413	4294203.887	4343	09-Jul-15	BRIDGETON BOREHOLE 0	393936.644	
722110.37	4294203.643	4573	09-Jul-15	BRIDGETON BOREHOLE 0	393937.359	
722110.139	4294203.304	4837	09-Jul-15	BRIDGETON BOREHOLE 0	393938.394	
722109.707	4294202.892	4543	09-Jul-15	BRIDGETON BOREHOLE 0	393939.624	
722109.261	4294202.53	3943	09-Jul-15	BRIDGETON BOREHOLE 0	393940.626	
722108.902	4294202.258	3785	09-Jul-15	BRIDGETON BOREHOLE 0	393941.373	
722108.195	4294201.859	4188	09-Jul-15	BRIDGETON BOREHOLE 0	393942.605	
722107.78	4294201.749	4531	09-Jul-15	BRIDGETON BOREHOLE 0	393943.462	
722107.503	4294202.011	3921	09-Jul-15	BRIDGETON BOREHOLE 0	393944.457	
722107.418	4294202.557	4126	09-Jul-15	BRIDGETON BOREHOLE 0	393945.515	
722107.79	4294202.918	4488	09-Jul-15	BRIDGETON BOREHOLE 0	393946.524	
722108.381	4294203.286	4249	09-Jul-15	BRIDGETON BOREHOLE 0	393947.617	
722108.836	4294203.678	3971	09-Jul-15	BRIDGETON BOREHOLE 0	393948.622	
722109.006	4294203.87	3781	09-Jul-15	BRIDGETON BOREHOLE 0	393949.366	
722108.913	4294203.839	3799	09-Jul-15	BRIDGETON BOREHOLE 0	393950.419	
722108.663	4294203.665	4114	09-Jul-15	BRIDGETON BOREHOLE 0	393951.392	
722108.383	4294203.583	4091	09-Jul-15	BRIDGETON BOREHOLE 0	393952.39	
722107.936	4294203.478	3936	09-Jul-15	BRIDGETON BOREHOLE 0	393953.609	
722107.57	4294203.474	4260	09-Jul-15	BRIDGETON BOREHOLE 0	393954.424	
722107.199	4294203.703	4256	09-Jul-15	BRIDGETON BOREHOLE 0	393955.47	
722107.369	4294204.173	3865	09-Jul-15	BRIDGETON BOREHOLE 0	393956.567	
722107.737	4294204.479	3921	09-Jul-15	BRIDGETON BOREHOLE 0	393957.291	
722108.189	4294204.788	3995	09-Jul-15	BRIDGETON BOREHOLE 0	393958.349	
722108.327	4294204.906	4258	09-Jul-15	BRIDGETON BOREHOLE 0	393959.342	
722108.154	4294204.867	4180	09-Jul-15	BRIDGETON BOREHOLE 0	393960.343	
722107.763	4294204.809	4166	09-Jul-15	BRIDGETON BOREHOLE 0	393961.454	
722107.515	4294204.649	4698	09-Jul-15	BRIDGETON BOREHOLE 0	393962.483	
722107.493	4294204.561	4143	09-Jul-15	BRIDGETON BOREHOLE 0	393963.561	
722107.388	4294204.543	3944	09-Jul-15	BRIDGETON BOREHOLE 0	393964.615	
722106.989	4294204.477	4235	09-Jul-15	BRIDGETON BOREHOLE 0	393965.468	
722106.589	4294204.731	4347	09-Jul-15	BRIDGETON BOREHOLE 0	393966.738	
722106.755	4294205.08	4492	09-Jul-15	BRIDGETON BOREHOLE 0	393967.452	
722107.203	4294205.526	4837	09-Jul-15	BRIDGETON BOREHOLE 0	393968.564	
722107.385	4294205.772	4858	09-Jul-15	BRIDGETON BOREHOLE 0	393969.359	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722107.361	4294206.058	5268	09-Jul-15	BRIDGETON BOREHOLE 0	393970.359	
722107.205	4294206.006	5183	09-Jul-15	BRIDGETON BOREHOLE 0	393971.364	
722107.016	4294205.598	5000	09-Jul-15	BRIDGETON BOREHOLE 0	393972.642	
722106.863	4294205.391	4560	09-Jul-15	BRIDGETON BOREHOLE 0	393973.443	
722106.561	4294205.103	4417	09-Jul-15	BRIDGETON BOREHOLE 0	393974.536	
722106.186	4294205.07	4367	09-Jul-15	BRIDGETON BOREHOLE 0	393975.422	
722105.842	4294205.427	4331	09-Jul-15	BRIDGETON BOREHOLE 0	393976.35	
722105.815	4294206.119	4521	09-Jul-15	BRIDGETON BOREHOLE 0	393977.349	
722106.069	4294206.68	4095	09-Jul-15	BRIDGETON BOREHOLE 0	393978.56	
722106.193	4294207.031	5019	09-Jul-15	BRIDGETON BOREHOLE 0	393979.369	
722106.108	4294207.431	4773	09-Jul-15	BRIDGETON BOREHOLE 0	393980.434	
722105.947	4294207.481	5370	09-Jul-15	BRIDGETON BOREHOLE 0	393981.378	
722105.606	4294207.403	5180	09-Jul-15	BRIDGETON BOREHOLE 0	393982.403	
722105.107	4294207.524	4984	09-Jul-15	BRIDGETON BOREHOLE 0	393983.313	
722104.64	4294207.713	4813	09-Jul-15	BRIDGETON BOREHOLE 0	393984.214	
722104.022	4294207.79	4852	09-Jul-15	BRIDGETON BOREHOLE 0	393985.405	
722103.452	4294207.859	4957	09-Jul-15	BRIDGETON BOREHOLE 0	393986.621	
722103.206	4294207.771	5083	09-Jul-15	BRIDGETON BOREHOLE 0	393987.355	
722102.966	4294207.671	5019	09-Jul-15	BRIDGETON BOREHOLE 0	393988.384	
722102.857	4294207.661	5051	09-Jul-15	BRIDGETON BOREHOLE 0	393989.408	
722102.98	4294207.672	4723	09-Jul-15	BRIDGETON BOREHOLE 0	393990.49	
722103.198	4294207.721	5012	09-Jul-15	BRIDGETON BOREHOLE 0	393991.539	
722103.445	4294207.598	4814	09-Jul-15	BRIDGETON BOREHOLE 0	393992.601	
722103.7	4294207.499	4575	09-Jul-15	BRIDGETON BOREHOLE 0	393993.466	
722104.061	4294207.326	4831	09-Jul-15	BRIDGETON BOREHOLE 0	393994.498	
722104.371	4294207.169	4495	09-Jul-15	BRIDGETON BOREHOLE 0	393995.269	
722104.855	4294207.036	4598	09-Jul-15	BRIDGETON BOREHOLE 0	393996.476	
722105.149	4294206.851	4274	09-Jul-15	BRIDGETON BOREHOLE 0	393997.322	
722105.415	4294206.563	4301	09-Jul-15	BRIDGETON BOREHOLE 0	393998.384	
722105.356	4294206.192	4309	09-Jul-15	BRIDGETON BOREHOLE 0	393999.471	
722105.151	4294205.998	4396	09-Jul-15	BRIDGETON BOREHOLE 0	394000.713	
722104.93	4294205.995	4940	09-Jul-15	BRIDGETON BOREHOLE 0	394001.457	
722104.544	4294205.904	5006	09-Jul-15	BRIDGETON BOREHOLE 0	394002.551	
722104.2	4294205.897	4998	09-Jul-15	BRIDGETON BOREHOLE 0	394003.405	
722103.836	4294206.03	5046	09-Jul-15	BRIDGETON BOREHOLE 0	394004.354	
722103.596	4294206.187	4961	09-Jul-15	BRIDGETON BOREHOLE 0	394005.373	
722103.196	4294206.372	4523	09-Jul-15	BRIDGETON BOREHOLE 0	394006.611	
722103.009	4294206.388	4981	09-Jul-15	BRIDGETON BOREHOLE 0	394007.366	
722103	4294206.498	4849	09-Jul-15	BRIDGETON BOREHOLE 0	394008.37	
722103.194	4294206.537	5158	09-Jul-15	BRIDGETON BOREHOLE 0	394009.667	
722103.322	4294206.425	4551	09-Jul-15	BRIDGETON BOREHOLE 0	394010.519	
722103.38	4294206.295	4630	09-Jul-15	BRIDGETON BOREHOLE 0	394011.457	
722103.316	4294206.328	4689	09-Jul-15	BRIDGETON BOREHOLE 0	394012.416	
722103.29	4294206.536	5435	09-Jul-15	BRIDGETON BOREHOLE 0	394013.498	
722103.316	4294206.69	5937	09-Jul-15	BRIDGETON BOREHOLE 0	394014.605	
722103.349	4294206.587	5424	09-Jul-15	BRIDGETON BOREHOLE 0	394015.353	
722103.483	4294206.19	5234	09-Jul-15	BRIDGETON BOREHOLE 0	394016.625	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722103.613	4294206.026	4804	09-Jul-15	BRIDGETON BOREHOLE 0	394017.347	
722103.807	4294205.846	4907	09-Jul-15	BRIDGETON BOREHOLE 0	394018.45	
722103.933	4294205.896	5407	09-Jul-15	BRIDGETON BOREHOLE 0	394019.425	
722104.146	4294206.062	5554	09-Jul-15	BRIDGETON BOREHOLE 0	394020.567	
722104.191	4294205.851	4736	09-Jul-15	BRIDGETON BOREHOLE 0	394021.51	
722104.085	4294205.653	4869	09-Jul-15	BRIDGETON BOREHOLE 0	394022.404	
722103.77	4294205.597	4726	09-Jul-15	BRIDGETON BOREHOLE 0	394023.424	
722103.321	4294205.328	4976	09-Jul-15	BRIDGETON BOREHOLE 0	394024.478	
722103.196	4294205.099	5094	09-Jul-15	BRIDGETON BOREHOLE 0	394025.537	
722103.228	4294205.076	5257	09-Jul-15	BRIDGETON BOREHOLE 0	394026.491	
722103.233	4294204.995	5545	09-Jul-15	BRIDGETON BOREHOLE 0	394027.393	
722103.343	4294204.872	5954	09-Jul-15	BRIDGETON BOREHOLE 0	394028.516	
722103.419	4294204.658	5876	09-Jul-15	BRIDGETON BOREHOLE 0	394029.543	
722103.499	4294204.324	5840	09-Jul-15	BRIDGETON BOREHOLE 0	394030.603	
722103.561	4294204.236	5550	09-Jul-15	BRIDGETON BOREHOLE 0	394031.437	
722103.749	4294204.296	6197	09-Jul-15	BRIDGETON BOREHOLE 0	394032.479	
722103.889	4294204.454	5594	09-Jul-15	BRIDGETON BOREHOLE 0	394033.435	
722103.976	4294204.448	5839	09-Jul-15	BRIDGETON BOREHOLE 0	394034.557	
722104.218	4294204.301	5557	09-Jul-15	BRIDGETON BOREHOLE 0	394035.443	
722104.518	4294204.217	6020	09-Jul-15	BRIDGETON BOREHOLE 0	394036.5	
722104.661	4294204.185	5902	09-Jul-15	BRIDGETON BOREHOLE 0	394037.366	
722104.931	4294204.406	5622	09-Jul-15	BRIDGETON BOREHOLE 0	394038.606	
722105.11	4294204.605	5150	09-Jul-15	BRIDGETON BOREHOLE 0	394039.406	
722105.365	4294204.566	4622	09-Jul-15	BRIDGETON BOREHOLE 0	394040.513	
722105.672	4294204.485	4557	09-Jul-15	BRIDGETON BOREHOLE 0	394041.434	
722105.88	4294204.586	4776	09-Jul-15	BRIDGETON BOREHOLE 0	394042.428	
722105.977	4294204.647	5566	09-Jul-15	BRIDGETON BOREHOLE 0	394043.246	
722106.281	4294204.67	4878	09-Jul-15	BRIDGETON BOREHOLE 0	394044.507	
722106.597	4294204.61	4544	09-Jul-15	BRIDGETON BOREHOLE 0	394045.626	
722106.779	4294204.364	4843	09-Jul-15	BRIDGETON BOREHOLE 0	394046.624	
722106.807	4294204.245	4104	09-Jul-15	BRIDGETON BOREHOLE 0	394047.448	
722106.766	4294204.339	4146	09-Jul-15	BRIDGETON BOREHOLE 0	394048.485	
722106.727	4294204.236	4380	09-Jul-15	BRIDGETON BOREHOLE 0	394049.34	
722106.502	4294203.66	4241	09-Jul-15	BRIDGETON BOREHOLE 0	394050.373	
722106.261	4294203.255	3908	09-Jul-15	BRIDGETON BOREHOLE 0	394051.346	
722106.37	4294202.739	3933	09-Jul-15	BRIDGETON BOREHOLE 0	394052.412	
722106.358	4294202.476	4042	09-Jul-15	BRIDGETON BOREHOLE 0	394053.421	
722106.272	4294202.56	4568	09-Jul-15	BRIDGETON BOREHOLE 0	394054.427	
722106.125	4294202.91	4609	09-Jul-15	BRIDGETON BOREHOLE 0	394055.465	
722106.152	4294203.277	4093	09-Jul-15	BRIDGETON BOREHOLE 0	394056.376	
722106.257	4294203.476	4484	09-Jul-15	BRIDGETON BOREHOLE 0	394057.448	
722106.152	4294203.477	4412	09-Jul-15	BRIDGETON BOREHOLE 0	394058.443	
722105.922	4294203.498	3944	09-Jul-15	BRIDGETON BOREHOLE 0	394059.418	
722105.688	4294203.335	3952	09-Jul-15	BRIDGETON BOREHOLE 0	394060.475	
722105.504	4294203.216	4915	09-Jul-15	BRIDGETON BOREHOLE 0	394061.272	
722105.435	4294203.469	4459	09-Jul-15	BRIDGETON BOREHOLE 0	394062.345	
722105.458	4294203.905	5418	09-Jul-15	BRIDGETON BOREHOLE 0	394063.378	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722105.409	4294203.973	5598	09-Jul-15	BRIDGETON BOREHOLE 0	394064.324	
722105.128	4294204.168	5579	09-Jul-15	BRIDGETON BOREHOLE 0	394065.457	
722104.79	4294204.028	5208	09-Jul-15	BRIDGETON BOREHOLE 0	394066.549	
722104.489	4294203.883	5869	09-Jul-15	BRIDGETON BOREHOLE 0	394067.394	
722104.141	4294203.93	5621	09-Jul-15	BRIDGETON BOREHOLE 0	394068.383	
722103.898	4294203.956	5996	09-Jul-15	BRIDGETON BOREHOLE 0	394069.363	
722103.829	4294203.675	5848	09-Jul-15	BRIDGETON BOREHOLE 0	394070.694	
722103.836	4294203.581	5577	09-Jul-15	BRIDGETON BOREHOLE 0	394071.368	
722104.078	4294203.719	5781	09-Jul-15	BRIDGETON BOREHOLE 0	394078.544	
722104.014	4294203.948	5314	09-Jul-15	BRIDGETON BOREHOLE 0	394079.364	
722104.043	4294204.107	5171	09-Jul-15	BRIDGETON BOREHOLE 0	394080.435	
722103.884	4294203.755	5564	09-Jul-15	BRIDGETON BOREHOLE 0	394081.469	
722103.688	4294203.855	5755	09-Jul-15	BRIDGETON BOREHOLE 0	394082.503	
722103.776	4294204.333	5464	09-Jul-15	BRIDGETON BOREHOLE 0	394083.379	
722103.85	4294204.717	5384	09-Jul-15	BRIDGETON BOREHOLE 0	394084.489	
722103.591	4294204.714	4978	09-Jul-15	BRIDGETON BOREHOLE 0	394085.398	
722103.261	4294204.551	5125	09-Jul-15	BRIDGETON BOREHOLE 0	394086.499	
722103.029	4294204.264	5283	09-Jul-15	BRIDGETON BOREHOLE 0	394087.443	
722102.727	4294203.734	5326	09-Jul-15	BRIDGETON BOREHOLE 0	394088.484	
722102.696	4294203.228	5375	09-Jul-15	BRIDGETON BOREHOLE 0	394089.371	
722102.815	4294202.761	5627	09-Jul-15	BRIDGETON BOREHOLE 0	394090.376	
722102.984	4294202.415	5438	09-Jul-15	BRIDGETON BOREHOLE 0	394091.363	
722103.137	4294202.025	5886	09-Jul-15	BRIDGETON BOREHOLE 0	394092.376	
722103.336	4294201.855	7082	09-Jul-15	BRIDGETON BOREHOLE 0	394093.412	
722103.782	4294201.833	6270	09-Jul-15	BRIDGETON BOREHOLE 0	394094.404	
722103.985	4294201.845	5771	09-Jul-15	BRIDGETON BOREHOLE 0	394095.528	
722104.017	4294201.793	5676	09-Jul-15	BRIDGETON BOREHOLE 0	394096.431	
722104.135	4294201.64	5405	09-Jul-15	BRIDGETON BOREHOLE 0	394097.417	
722104.391	4294201.53	5388	09-Jul-15	BRIDGETON BOREHOLE 0	394098.493	
722104.614	4294201.681	5280	09-Jul-15	BRIDGETON BOREHOLE 0	394099.313	
722104.871	4294201.883	5452	09-Jul-15	BRIDGETON BOREHOLE 0	394100.564	
722104.917	4294201.917	5804	09-Jul-15	BRIDGETON BOREHOLE 0	394101.145	
722105.167	4294201.979	5470	09-Jul-15	BRIDGETON BOREHOLE 0	394102.531	
722105.402	4294201.964	4839	09-Jul-15	BRIDGETON BOREHOLE 0	394103.28	
722105.653	4294201.86	4852	09-Jul-15	BRIDGETON BOREHOLE 0	394104.53	
722105.812	4294201.821	4739	09-Jul-15	BRIDGETON BOREHOLE 0	394105.315	
722106.155	4294201.853	4368	09-Jul-15	BRIDGETON BOREHOLE 0	394106.578	
722106.275	4294201.945	4249	09-Jul-15	BRIDGETON BOREHOLE 0	394107.375	
722106.271	4294201.973	4310	09-Jul-15	BRIDGETON BOREHOLE 0	394108.506	
722106.276	4294201.961	4194	09-Jul-15	BRIDGETON BOREHOLE 0	394109.285	
722106.622	4294201.617	4096	09-Jul-15	BRIDGETON BOREHOLE 0	394110.553	
722106.884	4294201.04	4621	09-Jul-15	BRIDGETON BOREHOLE 0	394111.452	
722106.892	4294200.608	4557	09-Jul-15	BRIDGETON BOREHOLE 0	394112.441	
722106.843	4294200.464	4686	09-Jul-15	BRIDGETON BOREHOLE 0	394113.285	
722106.905	4294200.438	4691	09-Jul-15	BRIDGETON BOREHOLE 0	394114.329	
722106.794	4294200.525	5023	09-Jul-15	BRIDGETON BOREHOLE 0	394115.36	
722106.412	4294200.504	4760	09-Jul-15	BRIDGETON BOREHOLE 0	394116.534	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722106.185	4294200.367	4838	09-Jul-15	BRIDGETON BOREHOLE 0	394117.352	
722106.047	4294200.264	4611	09-Jul-15	BRIDGETON BOREHOLE 0	394118.446	
722105.934	4294200.216	4776	09-Jul-15	BRIDGETON BOREHOLE 0	394119.445	
722105.723	4294200.319	5124	09-Jul-15	BRIDGETON BOREHOLE 0	394120.573	
722105.535	4294200.36	4959	09-Jul-15	BRIDGETON BOREHOLE 0	394121.358	
722105.285	4294200.392	4897	09-Jul-15	BRIDGETON BOREHOLE 0	394122.401	
722105.018	4294200.349	4599	09-Jul-15	BRIDGETON BOREHOLE 0	394123.452	
722104.768	4294200.2	4860	09-Jul-15	BRIDGETON BOREHOLE 0	394124.287	
722104.549	4294199.956	5021	09-Jul-15	BRIDGETON BOREHOLE 0	394125.344	
722104.435	4294199.751	4834	09-Jul-15	BRIDGETON BOREHOLE 0	394126.361	
722104.257	4294199.724	4999	09-Jul-15	BRIDGETON BOREHOLE 0	394127.392	
722104.073	4294199.78	5744	09-Jul-15	BRIDGETON BOREHOLE 0	394128.415	
722104.005	4294199.635	5538	09-Jul-15	BRIDGETON BOREHOLE 0	394129.492	
722104.014	4294199.533	5406	09-Jul-15	BRIDGETON BOREHOLE 0	394130.431	
722104.098	4294199.354	5591	09-Jul-15	BRIDGETON BOREHOLE 0	394131.365	
722104.134	4294199.056	5845	09-Jul-15	BRIDGETON BOREHOLE 0	394132.595	
722104.166	4294198.979	5702	09-Jul-15	BRIDGETON BOREHOLE 0	394133.423	
722104.345	4294199.027	5315	09-Jul-15	BRIDGETON BOREHOLE 0	394134.406	
722104.655	4294199.081	5419	09-Jul-15	BRIDGETON BOREHOLE 0	394135.509	
722104.848	4294198.954	5433	09-Jul-15	BRIDGETON BOREHOLE 0	394136.435	
722105.076	4294198.907	5973	09-Jul-15	BRIDGETON BOREHOLE 0	394137.283	
722105.42	4294199.202	5550	09-Jul-15	BRIDGETON BOREHOLE 0	394138.368	
722105.553	4294199.029	5147	09-Jul-15	BRIDGETON BOREHOLE 0	394139.46	
722105.63	4294198.82	4920	09-Jul-15	BRIDGETON BOREHOLE 0	394140.267	
722105.84	4294199.107	4920	09-Jul-15	BRIDGETON BOREHOLE 0	394141.493	
722106.002	4294199.29	4897	09-Jul-15	BRIDGETON BOREHOLE 0	394142.272	
722106.106	4294199.133	4682	09-Jul-15	BRIDGETON BOREHOLE 0	394143.322	
722106.401	4294199.062	4629	09-Jul-15	BRIDGETON BOREHOLE 0	394144.356	
722106.634	4294199.399	4703	09-Jul-15	BRIDGETON BOREHOLE 0	394145.455	
722106.788	4294199.634	4483	09-Jul-15	BRIDGETON BOREHOLE 0	394146.423	
722106.796	4294199.699	4397	09-Jul-15	BRIDGETON BOREHOLE 0	394147.095	
722106.694	4294199.537	4355	09-Jul-15	BRIDGETON BOREHOLE 0	394148.346	
722106.887	4294199.585	4460	09-Jul-15	BRIDGETON BOREHOLE 0	394149.391	
722107.16	4294199.96	4691	09-Jul-15	BRIDGETON BOREHOLE 0	394150.617	
722107.138	4294200.018	4424	09-Jul-15	BRIDGETON BOREHOLE 0	394151.454	
722107.085	4294199.624	4176	09-Jul-15	BRIDGETON BOREHOLE 0	394152.599	
722107.103	4294199.396	4065	09-Jul-15	BRIDGETON BOREHOLE 0	394153.37	
722107.09	4294199.304	4281	09-Jul-15	BRIDGETON BOREHOLE 0	394154.408	
722107.079	4294199.222	4890	09-Jul-15	BRIDGETON BOREHOLE 0	394155.408	
722107.036	4294199.193	4768	09-Jul-15	BRIDGETON BOREHOLE 0	394156.463	
722106.826	4294199.237	4677	09-Jul-15	BRIDGETON BOREHOLE 0	394157.476	
722106.718	4294199.217	5038	09-Jul-15	BRIDGETON BOREHOLE 0	394158.32	
722106.597	4294199.216	4904	09-Jul-15	BRIDGETON BOREHOLE 0	394159.344	
722106.255	4294199.148	4543	09-Jul-15	BRIDGETON BOREHOLE 0	394160.461	
722106.107	4294199.078	4693	09-Jul-15	BRIDGETON BOREHOLE 0	394161.364	
722106.02	4294199.147	4507	09-Jul-15	BRIDGETON BOREHOLE 0	394162.379	
722105.74	4294199.295	4732	09-Jul-15	BRIDGETON BOREHOLE 0	394163.397	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722105.291	4294199.31	6149	09-Jul-15	BRIDGETON BOREHOLE 0	394164.538	
722104.989	4294199.162	4901	09-Jul-15	BRIDGETON BOREHOLE 0	394165.378	
722104.893	4294198.752	5194	09-Jul-15	BRIDGETON BOREHOLE 0	394166.406	
722105.103	4294198.27	5494	09-Jul-15	BRIDGETON BOREHOLE 0	394167.476	
722105.284	4294198.038	4988	09-Jul-15	BRIDGETON BOREHOLE 0	394168.297	
722105.422	4294198.046	5040	09-Jul-15	BRIDGETON BOREHOLE 0	394169.33	
722105.364	4294198.507	5295	09-Jul-15	BRIDGETON BOREHOLE 0	394170.607	
722105.374	4294198.596	5566	09-Jul-15	BRIDGETON BOREHOLE 0	394171.457	
722105.474	4294198.697	5726	09-Jul-15	BRIDGETON BOREHOLE 0	394172.5	
722105.36	4294198.698	5508	09-Jul-15	BRIDGETON BOREHOLE 0	394173.501	
722105.219	4294198.399	6128	09-Jul-15	BRIDGETON BOREHOLE 0	394174.591	
722105.245	4294198.225	5762	09-Jul-15	BRIDGETON BOREHOLE 0	394175.534	
722105.446	4294197.885	6293	09-Jul-15	BRIDGETON BOREHOLE 0	394176.636	
722105.671	4294197.686	5983	09-Jul-15	BRIDGETON BOREHOLE 0	394177.209	
722106.077	4294197.455	6163	09-Jul-15	BRIDGETON BOREHOLE 0	394178.273	
722106.115	4294197.395	6016	09-Jul-15	BRIDGETON BOREHOLE 0	394179.373	
722106.373	4294197.47	5829	09-Jul-15	BRIDGETON BOREHOLE 0	394180.388	
722106.693	4294197.622	6076	09-Jul-15	BRIDGETON BOREHOLE 0	394181.476	
722107.015	4294197.792	5668	09-Jul-15	BRIDGETON BOREHOLE 0	394182.338	
722107.267	4294197.904	5116	09-Jul-15	BRIDGETON BOREHOLE 0	394183.191	
722107.581	4294198.052	5180	09-Jul-15	BRIDGETON BOREHOLE 0	394184.451	
722107.749	4294198.112	4961	09-Jul-15	BRIDGETON BOREHOLE 0	394185.276	
722107.802	4294198.044	4470	09-Jul-15	BRIDGETON BOREHOLE 0	394186.34	
722107.915	4294197.948	4060	09-Jul-15	BRIDGETON BOREHOLE 0	394187.204	
722107.997	4294197.965	3948	09-Jul-15	BRIDGETON BOREHOLE 0	394188.247	
722107.892	4294197.781	4045	09-Jul-15	BRIDGETON BOREHOLE 0	394189.309	
722107.905	4294197.339	4885	09-Jul-15	BRIDGETON BOREHOLE 0	394190.467	
722108.068	4294196.96	4563	09-Jul-15	BRIDGETON BOREHOLE 0	394191.422	
722108.103	4294196.779	4471	09-Jul-15	BRIDGETON BOREHOLE 0	394192.502	
722108.03	4294196.828	3812	09-Jul-15	BRIDGETON BOREHOLE 0	394193.366	
722107.658	4294196.882	3837	09-Jul-15	BRIDGETON BOREHOLE 0	394194.455	
722107.341	4294196.839	4388	09-Jul-15	BRIDGETON BOREHOLE 0	394195.22	
722107.033	4294196.711	4643	09-Jul-15	BRIDGETON BOREHOLE 0	394196.299	
722106.551	4294196.696	5177	09-Jul-15	BRIDGETON BOREHOLE 0	394197.518	
722106.432	4294196.752	5904	09-Jul-15	BRIDGETON BOREHOLE 0	394198.344	
722106.435	4294196.856	5849	09-Jul-15	BRIDGETON BOREHOLE 0	394199.405	
722106.417	4294196.889	5613	09-Jul-15	BRIDGETON BOREHOLE 0	394200.382	
722106.402	4294196.955	5865	09-Jul-15	BRIDGETON BOREHOLE 0	394201.473	
722106.639	4294196.866	5406	09-Jul-15	BRIDGETON BOREHOLE 0	394202.538	
722106.804	4294196.697	6167	09-Jul-15	BRIDGETON BOREHOLE 0	394203.442	
722106.575	4294196.693	6317	09-Jul-15	BRIDGETON BOREHOLE 0	394204.394	
722106.06	4294196.982	5429	09-Jul-15	BRIDGETON BOREHOLE 0	394205.363	
722105.784	4294197.11	6316	09-Jul-15	BRIDGETON BOREHOLE 0	394206.523	
722105.865	4294197.045	6229	09-Jul-15	BRIDGETON BOREHOLE 0	394207.206	
722106.148	4294196.748	5951	09-Jul-15	BRIDGETON BOREHOLE 0	394208.45	
722106.115	4294196.571	5867	09-Jul-15	BRIDGETON BOREHOLE 0	394209.186	
722106.086	4294196.429	6367	09-Jul-15	BRIDGETON BOREHOLE 0	394210.302	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722106.529	4294196.494	5402	09-Jul-15	BRIDGETON BOREHOLE 0	394211.384	
722106.919	4294196.646	5708	09-Jul-15	BRIDGETON BOREHOLE 0	394212.361	
722107.004	4294196.641	5303	09-Jul-15	BRIDGETON BOREHOLE 0	394213.443	
722106.873	4294196.752	4985	09-Jul-15	BRIDGETON BOREHOLE 0	394214.417	
722106.599	4294196.836	5384	09-Jul-15	BRIDGETON BOREHOLE 0	394215.451	
722106.545	4294196.818	6014	09-Jul-15	BRIDGETON BOREHOLE 0	394216.281	
722106.855	4294196.614	5047	09-Jul-15	BRIDGETON BOREHOLE 0	394217.528	
722106.928	4294196.43	5366	09-Jul-15	BRIDGETON BOREHOLE 0	394218.526	
722106.784	4294196.312	5088	09-Jul-15	BRIDGETON BOREHOLE 0	394219.243	
722106.766	4294196.085	5547	09-Jul-15	BRIDGETON BOREHOLE 0	394220.523	
722106.998	4294195.928	4928	09-Jul-15	BRIDGETON BOREHOLE 0	394221.295	
722107.52	4294195.83	5097	09-Jul-15	BRIDGETON BOREHOLE 0	394222.387	
722107.927	4294195.84	4847	09-Jul-15	BRIDGETON BOREHOLE 0	394223.382	
722108.032	4294195.919	5591	09-Jul-15	BRIDGETON BOREHOLE 0	394224.39	
722107.738	4294195.939	4922	09-Jul-15	BRIDGETON BOREHOLE 0	394225.411	
722107.562	4294195.709	4734	09-Jul-15	BRIDGETON BOREHOLE 0	394226.479	
722107.675	4294195.392	4357	09-Jul-15	BRIDGETON BOREHOLE 0	394227.27	
722107.856	4294195.284	4123	09-Jul-15	BRIDGETON BOREHOLE 0	394228.326	
722107.66	4294195.439	4322	09-Jul-15	BRIDGETON BOREHOLE 0	394229.188	
722107.172	4294195.722	5003	09-Jul-15	BRIDGETON BOREHOLE 0	394230.355	
722106.964	4294195.831	5042	09-Jul-15	BRIDGETON BOREHOLE 0	394231.36	
722106.892	4294195.971	5618	09-Jul-15	BRIDGETON BOREHOLE 0	394232.403	
722106.831	4294195.869	6220	09-Jul-15	BRIDGETON BOREHOLE 0	394233.35	
722106.654	4294195.616	5797	09-Jul-15	BRIDGETON BOREHOLE 0	394234.181	
722106.512	4294195.711	5384	09-Jul-15	BRIDGETON BOREHOLE 0	394235.271	
722106.475	4294195.739	5533	09-Jul-15	BRIDGETON BOREHOLE 0	394236.476	
722106.357	4294195.689	5790	09-Jul-15	BRIDGETON BOREHOLE 0	394237.347	
722106.295	4294195.499	6242	09-Jul-15	BRIDGETON BOREHOLE 0	394238.25	
722106.068	4294195.066	5820	09-Jul-15	BRIDGETON BOREHOLE 0	394239.397	
722105.99	4294194.837	6079	09-Jul-15	BRIDGETON BOREHOLE 0	394240.466	
722106.157	4294194.713	6889	09-Jul-15	BRIDGETON BOREHOLE 0	394241.249	
722106.672	4294194.447	6162	09-Jul-15	BRIDGETON BOREHOLE 0	394242.348	
722107.229	4294194.338	5625	09-Jul-15	BRIDGETON BOREHOLE 0	394243.444	
722107.71	4294194.335	5422	09-Jul-15	BRIDGETON BOREHOLE 0	394244.559	
722108.007	4294194.391	5352	09-Jul-15	BRIDGETON BOREHOLE 0	394245.456	
722108.078	4294194.497	5185	09-Jul-15	BRIDGETON BOREHOLE 0	394246.468	
722107.946	4294194.513	4754	09-Jul-15	BRIDGETON BOREHOLE 0	394247.263	
722107.661	4294194.45	4444	09-Jul-15	BRIDGETON BOREHOLE 0	394248.409	
722107.432	4294194.393	4427	09-Jul-15	BRIDGETON BOREHOLE 0	394249.397	
722107.07	4294194.304	5243	09-Jul-15	BRIDGETON BOREHOLE 0	394250.524	
722106.828	4294194.272	5926	09-Jul-15	BRIDGETON BOREHOLE 0	394251.171	
722106.427	4294193.92	6542	09-Jul-15	BRIDGETON BOREHOLE 0	394252.409	
722106.393	4294193.638	5865	09-Jul-15	BRIDGETON BOREHOLE 0	394253.219	
722106.712	4294193.107	5814	09-Jul-15	BRIDGETON BOREHOLE 0	394254.309	
722107.109	4294193.024	5715	09-Jul-15	BRIDGETON BOREHOLE 0	394255.09	
722107.742	4294193.179	5615	09-Jul-15	BRIDGETON BOREHOLE 0	394256.354	
722108.187	4294193.314	5251	09-Jul-15	BRIDGETON BOREHOLE 0	394257.362	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722108.446	4294193.373	4836	09-Jul-15	BRIDGETON BOREHOLE 0	394258.376	
722108.51	4294193.458	4917	09-Jul-15	BRIDGETON BOREHOLE 0	394259.469	
722108.365	4294193.455	4551	09-Jul-15	BRIDGETON BOREHOLE 0	394260.171	
722107.979	4294193.313	5042	09-Jul-15	BRIDGETON BOREHOLE 0	394261.408	
722107.713	4294193.23	5349	09-Jul-15	BRIDGETON BOREHOLE 0	394262.344	
722107.463	4294193.163	5041	09-Jul-15	BRIDGETON BOREHOLE 0	394263.158	
722107.029	4294192.947	5573	09-Jul-15	BRIDGETON BOREHOLE 0	394264.37	
722106.802	4294192.626	5902	09-Jul-15	BRIDGETON BOREHOLE 0	394265.507	
722106.896	4294192.296	5915	09-Jul-15	BRIDGETON BOREHOLE 0	394266.355	
722107.248	4294191.845	6478	09-Jul-15	BRIDGETON BOREHOLE 0	394267.363	
722107.781	4294191.72	6449	09-Jul-15	BRIDGETON BOREHOLE 0	394268.355	
722108.209	4294191.829	5448	09-Jul-15	BRIDGETON BOREHOLE 0	394269.358	
722108.669	4294191.864	4984	09-Jul-15	BRIDGETON BOREHOLE 0	394270.366	
722108.936	4294191.921	4349	09-Jul-15	BRIDGETON BOREHOLE 0	394271.397	
722108.899	4294191.946	4823	09-Jul-15	BRIDGETON BOREHOLE 0	394272.601	
722108.748	4294191.904	4385	09-Jul-15	BRIDGETON BOREHOLE 0	394273.394	
722108.452	4294191.811	4904	09-Jul-15	BRIDGETON BOREHOLE 0	394274.383	
722107.996	4294191.657	5076	09-Jul-15	BRIDGETON BOREHOLE 0	394275.406	
722107.563	4294191.372	5488	09-Jul-15	BRIDGETON BOREHOLE 0	394276.397	
722107.377	4294190.953	6124	09-Jul-15	BRIDGETON BOREHOLE 0	394277.39	
722107.711	4294190.571	5536	09-Jul-15	BRIDGETON BOREHOLE 0	394278.475	
722108.169	4294190.324	5911	09-Jul-15	BRIDGETON BOREHOLE 0	394279.442	
722108.416	4294190.259	5920	09-Jul-15	BRIDGETON BOREHOLE 0	394280.478	
722108.735	4294190.355	6022	09-Jul-15	BRIDGETON BOREHOLE 0	394281.462	
722109.116	4294190.498	5528	09-Jul-15	BRIDGETON BOREHOLE 0	394282.396	
722109.243	4294190.552	5209	09-Jul-15	BRIDGETON BOREHOLE 0	394283.424	
722109.325	4294190.396	5578	09-Jul-15	BRIDGETON BOREHOLE 0	394284.397	
722109.62	4294190.293	5316	09-Jul-15	BRIDGETON BOREHOLE 0	394285.167	
722110.005	4294190.434	4835	09-Jul-15	BRIDGETON BOREHOLE 0	394286.192	
722110.07	4294190.499	4902	09-Jul-15	BRIDGETON BOREHOLE 0	394287.479	
722110.322	4294190.44	4977	09-Jul-15	BRIDGETON BOREHOLE 0	394288.558	
722110.59	4294190.382	4937	09-Jul-15	BRIDGETON BOREHOLE 0	394289.338	
722110.694	4294190.236	5042	09-Jul-15	BRIDGETON BOREHOLE 0	394290.441	
722110.757	4294190.052	4561	09-Jul-15	BRIDGETON BOREHOLE 0	394291.273	
722111.154	4294189.911	4335	09-Jul-15	BRIDGETON BOREHOLE 0	394292.33	
722111.452	4294189.674	4403	09-Jul-15	BRIDGETON BOREHOLE 0	394293.189	
722111.695	4294189.7	4727	09-Jul-15	BRIDGETON BOREHOLE 0	394294.303	
722111.695	4294189.7	4924	09-Jul-15	BRIDGETON BOREHOLE 0	394295.127	
722128.882	4294241.277	7740	10-Jul-15	BRIDGETON BOREHOLE 0	510102.099	
722128.832	4294241.124	8025	10-Jul-15	BRIDGETON BOREHOLE 0	510103.253	
722128.833	4294241.028	8876	10-Jul-15	BRIDGETON BOREHOLE 0	510104.249	
722128.836	4294240.973	8099	10-Jul-15	BRIDGETON BOREHOLE 0	510105.083	
722128.792	4294241.007	8025	10-Jul-15	BRIDGETON BOREHOLE 0	510106.192	
722108.453	4294256.592	4638	10-Jul-15	BRIDGETON BOREHOLE 0	510616.212	
722108.434	4294256.6	4957	10-Jul-15	BRIDGETON BOREHOLE 0	510616.997	
722108.402	4294256.601	5053	10-Jul-15	BRIDGETON BOREHOLE 0	510618.095	
722108.38	4294256.615	5737	10-Jul-15	BRIDGETON BOREHOLE 0	510619.212	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722108.453	4294256.58	5582	10-Jul-15	BRIDGETON BOREHOLE 0	510620.099	
722108.521	4294256.501	5326	10-Jul-15	BRIDGETON BOREHOLE 0	510621.084	
722108.683	4294256.22	4840	10-Jul-15	BRIDGETON BOREHOLE 0	510622.118	
722109.004	4294256.255	5167	10-Jul-15	BRIDGETON BOREHOLE 0	510622.879	
722109.329	4294255.82	5179	10-Jul-15	BRIDGETON BOREHOLE 0	510623.987	
722109.84	4294255.192	5208	10-Jul-15	BRIDGETON BOREHOLE 0	510625.263	
722110.1	4294254.541	5434	10-Jul-15	BRIDGETON BOREHOLE 0	510626.092	
722110.071	4294253.873	5254	10-Jul-15	BRIDGETON BOREHOLE 0	510627.134	
722109.477	4294254.359	5310	10-Jul-15	BRIDGETON BOREHOLE 0	510628.213	
722109.113	4294254.941	4659	10-Jul-15	BRIDGETON BOREHOLE 0	510629.023	
722108.894	4294255.298	4676	10-Jul-15	BRIDGETON BOREHOLE 0	510629.844	
722108.385	4294256.001	4580	10-Jul-15	BRIDGETON BOREHOLE 0	510631.145	
722107.994	4294256.503	4893	10-Jul-15	BRIDGETON BOREHOLE 0	510632.207	
722107.743	4294256.894	4890	10-Jul-15	BRIDGETON BOREHOLE 0	510632.962	
722107.446	4294256.97	4663	10-Jul-15	BRIDGETON BOREHOLE 0	510634.042	
722107.209	4294256.505	4670	10-Jul-15	BRIDGETON BOREHOLE 0	510635.04	
722107.357	4294256.122	5132	10-Jul-15	BRIDGETON BOREHOLE 0	510636.115	
722107.542	4294255.637	5392	10-Jul-15	BRIDGETON BOREHOLE 0	510637.223	
722107.837	4294255.168	5028	10-Jul-15	BRIDGETON BOREHOLE 0	510638.355	
722108.04	4294254.766	5168	10-Jul-15	BRIDGETON BOREHOLE 0	510639.265	
722108.165	4294254.39	5007	10-Jul-15	BRIDGETON BOREHOLE 0	510640.039	
722108.315	4294253.935	4946	10-Jul-15	BRIDGETON BOREHOLE 0	510641.098	
722108.416	4294253.726	4965	10-Jul-15	BRIDGETON BOREHOLE 0	510642.097	
722108.399	4294253.855	5260	10-Jul-15	BRIDGETON BOREHOLE 0	510667.148	
722108.473	4294253.805	5449	10-Jul-15	BRIDGETON BOREHOLE 0	510668.283	
722108.437	4294253.911	5742	10-Jul-15	BRIDGETON BOREHOLE 0	510669.109	
722108.274	4294254.342	4970	10-Jul-15	BRIDGETON BOREHOLE 0	510670.281	
722108.079	4294254.618	4843	10-Jul-15	BRIDGETON BOREHOLE 0	510671.144	
722107.802	4294255.175	5019	10-Jul-15	BRIDGETON BOREHOLE 0	510672.149	
722107.65	4294255.633	5433	10-Jul-15	BRIDGETON BOREHOLE 0	510672.927	
722107.293	4294256.364	5103	10-Jul-15	BRIDGETON BOREHOLE 0	510674.172	
722106.967	4294256.798	4543	10-Jul-15	BRIDGETON BOREHOLE 0	510674.974	
722106.313	4294256.828	4708	10-Jul-15	BRIDGETON BOREHOLE 0	510676.094	
722106.161	4294256.22	5108	10-Jul-15	BRIDGETON BOREHOLE 0	510677.12	
722106.294	4294255.822	4793	10-Jul-15	BRIDGETON BOREHOLE 0	510677.946	
722106.343	4294255.167	4563	10-Jul-15	BRIDGETON BOREHOLE 0	510679.204	
722106.451	4294254.81	4847	10-Jul-15	BRIDGETON BOREHOLE 0	510680.023	
722106.548	4294254.39	5021	10-Jul-15	BRIDGETON BOREHOLE 0	510680.837	
722106.689	4294253.772	5089	10-Jul-15	BRIDGETON BOREHOLE 0	510682.091	
722106.846	4294253.469	5113	10-Jul-15	BRIDGETON BOREHOLE 0	510683.09	
722106.942	4294253.42	4871	10-Jul-15	BRIDGETON BOREHOLE 0	510684.094	
722107.015	4294253.472	4540	10-Jul-15	BRIDGETON BOREHOLE 0	510685.012	
722106.76	4294253.863	4316	10-Jul-15	BRIDGETON BOREHOLE 0	510686.096	
722106.379	4294254.143	5052	10-Jul-15	BRIDGETON BOREHOLE 0	510687.256	
722106.077	4294254.497	5159	10-Jul-15	BRIDGETON BOREHOLE 0	510688.274	
722105.845	4294254.902	4575	10-Jul-15	BRIDGETON BOREHOLE 0	510689.045	
722105.537	4294255.432	4703	10-Jul-15	BRIDGETON BOREHOLE 0	510690.155	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722105.2	4294255.775	4925	10-Jul-15	BRIDGETON BOREHOLE 0	510691.005	
722105.192	4294255.463	4855	10-Jul-15	BRIDGETON BOREHOLE 0	510692.014	
722105.53	4294255.068	4831	10-Jul-15	BRIDGETON BOREHOLE 0	510693.033	
722105.743	4294254.675	4592	10-Jul-15	BRIDGETON BOREHOLE 0	510693.845	
722105.973	4294254.123	4488	10-Jul-15	BRIDGETON BOREHOLE 0	510694.891	
722106.12	4294253.442	4894	10-Jul-15	BRIDGETON BOREHOLE 0	510696.091	
722106.322	4294252.98	4785	10-Jul-15	BRIDGETON BOREHOLE 0	510697.186	
722106.364	4294252.714	4837	10-Jul-15	BRIDGETON BOREHOLE 0	510698.2	
722106.282	4294252.786	4843	10-Jul-15	BRIDGETON BOREHOLE 0	510699.04	
722106.078	4294252.828	4914	10-Jul-15	BRIDGETON BOREHOLE 0	510700.193	
722105.698	4294252.602	4886	10-Jul-15	BRIDGETON BOREHOLE 0	510700.989	
722105.734	4294253.09	5388	10-Jul-15	BRIDGETON BOREHOLE 0	510701.853	
722105.78	4294253.511	5461	10-Jul-15	BRIDGETON BOREHOLE 0	510703.054	
722105.337	4294253.623	4999	10-Jul-15	BRIDGETON BOREHOLE 0	510704.32	
722105.545	4294253.914	4859	10-Jul-15	BRIDGETON BOREHOLE 0	510705.092	
722105.244	4294254.166	4586	10-Jul-15	BRIDGETON BOREHOLE 0	510706.096	
722104.886	4294254.456	4657	10-Jul-15	BRIDGETON BOREHOLE 0	510706.857	
722105.071	4294254.933	4704	10-Jul-15	BRIDGETON BOREHOLE 0	510708.065	
722104.495	4294255.133	4469	10-Jul-15	BRIDGETON BOREHOLE 0	510709.165	
722104.584	4294255.3	4973	10-Jul-15	BRIDGETON BOREHOLE 0	510710.039	
722104.44	4294255.627	4957	10-Jul-15	BRIDGETON BOREHOLE 0	510711.003	
722104.051	4294255.423	5023	10-Jul-15	BRIDGETON BOREHOLE 0	510712.052	
722103.774	4294255.19	5128	10-Jul-15	BRIDGETON BOREHOLE 0	510713.004	
722103.533	4294254.671	4939	10-Jul-15	BRIDGETON BOREHOLE 0	510714.338	
722103.864	4294254.569	5096	10-Jul-15	BRIDGETON BOREHOLE 0	510715.005	
722103.929	4294254.414	4749	10-Jul-15	BRIDGETON BOREHOLE 0	510716.181	
722103.919	4294253.943	5176	10-Jul-15	BRIDGETON BOREHOLE 0	510717.207	
722104.557	4294253.904	5529	10-Jul-15	BRIDGETON BOREHOLE 0	510718.035	
722104.618	4294253.839	4992	10-Jul-15	BRIDGETON BOREHOLE 0	510719.147	
722104.74	4294253.631	4826	10-Jul-15	BRIDGETON BOREHOLE 0	510720.278	
722105.232	4294253.665	4769	10-Jul-15	BRIDGETON BOREHOLE 0	510721.173	
722105.164	4294253.407	5143	10-Jul-15	BRIDGETON BOREHOLE 0	510722.113	
722105.221	4294253.08	5202	10-Jul-15	BRIDGETON BOREHOLE 0	510722.884	
722105.786	4294253.121	5056	10-Jul-15	BRIDGETON BOREHOLE 0	510724.051	
722105.612	4294252.852	5049	10-Jul-15	BRIDGETON BOREHOLE 0	510725.046	
722105.592	4294252.434	5150	10-Jul-15	BRIDGETON BOREHOLE 0	510726.279	
722105.934	4294252.441	4517	10-Jul-15	BRIDGETON BOREHOLE 0	510727.046	
722105.633	4294252.116	4768	10-Jul-15	BRIDGETON BOREHOLE 0	510728.044	
722105.901	4294251.692	4362	10-Jul-15	BRIDGETON BOREHOLE 0	510728.836	
722106.472	4294251.665	4606	10-Jul-15	BRIDGETON BOREHOLE 0	510730.094	
722106.015	4294251.344	4331	10-Jul-15	BRIDGETON BOREHOLE 0	510731.102	
722106.377	4294251.314	5458	10-Jul-15	BRIDGETON BOREHOLE 0	510731.995	
722106.149	4294251.04	5110	10-Jul-15	BRIDGETON BOREHOLE 0	510732.851	
722105.934	4294250.738	5192	10-Jul-15	BRIDGETON BOREHOLE 0	510733.942	
722105.505	4294250.657	5088	10-Jul-15	BRIDGETON BOREHOLE 0	510735.042	
722105.609	4294251.418	4984	10-Jul-15	BRIDGETON BOREHOLE 0	510736.043	
722105.614	4294251.54	4948	10-Jul-15	BRIDGETON BOREHOLE 0	510737.095	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722105.141	4294251.332	5011	10-Jul-15	BRIDGETON BOREHOLE 0	510738.093	
722105.412	4294251.865	4798	10-Jul-15	BRIDGETON BOREHOLE 0	510739.041	
722105.228	4294251.942	4957	10-Jul-15	BRIDGETON BOREHOLE 0	510740.041	
722104.732	4294251.779	4828	10-Jul-15	BRIDGETON BOREHOLE 0	510740.88	
722104.836	4294252.5	4658	10-Jul-15	BRIDGETON BOREHOLE 0	510742.245	
722104.665	4294252.596	4518	10-Jul-15	BRIDGETON BOREHOLE 0	510743.033	
722104.218	4294252.715	4333	10-Jul-15	BRIDGETON BOREHOLE 0	510744.088	
722104.525	4294253.297	4500	10-Jul-15	BRIDGETON BOREHOLE 0	510745.036	
722104.082	4294253.294	4616	10-Jul-15	BRIDGETON BOREHOLE 0	510746.251	
722103.966	4294253.472	4606	10-Jul-15	BRIDGETON BOREHOLE 0	510747.072	
722104.051	4294253.864	4563	10-Jul-15	BRIDGETON BOREHOLE 0	510748.093	
722103.543	4294253.846	4472	10-Jul-15	BRIDGETON BOREHOLE 0	510749.115	
722103.68	4294254.43	4863	10-Jul-15	BRIDGETON BOREHOLE 0	510750.124	
722103.408	4294254.361	4730	10-Jul-15	BRIDGETON BOREHOLE 0	510750.93	
722103.061	4294254.089	4663	10-Jul-15	BRIDGETON BOREHOLE 0	510752.002	
722103.536	4294253.895	4963	10-Jul-15	BRIDGETON BOREHOLE 0	510753.098	
722103.365	4294253.737	5071	10-Jul-15	BRIDGETON BOREHOLE 0	510754.124	
722103.029	4294253.544	5118	10-Jul-15	BRIDGETON BOREHOLE 0	510754.901	
722103.401	4294253.679	4738	10-Jul-15	BRIDGETON BOREHOLE 0	510755.933	
722103.547	4294253.505	4608	10-Jul-15	BRIDGETON BOREHOLE 0	510757.128	
722103.406	4294253.162	4362	10-Jul-15	BRIDGETON BOREHOLE 0	510758.272	
722103.775	4294253.266	4411	10-Jul-15	BRIDGETON BOREHOLE 0	510759.027	
722103.785	4294252.856	4528	10-Jul-15	BRIDGETON BOREHOLE 0	510760.058	
722103.747	4294252.544	4325	10-Jul-15	BRIDGETON BOREHOLE 0	510761.038	
722104.144	4294252.681	4360	10-Jul-15	BRIDGETON BOREHOLE 0	510762.155	
722103.934	4294252.197	4117	10-Jul-15	BRIDGETON BOREHOLE 0	510763.034	
722104.242	4294252.239	4326	10-Jul-15	BRIDGETON BOREHOLE 0	510764.134	
722104.495	4294252.199	4728	10-Jul-15	BRIDGETON BOREHOLE 0	510765.002	
722104.229	4294251.664	4819	10-Jul-15	BRIDGETON BOREHOLE 0	510766.036	
722104.574	4294251.829	5171	10-Jul-15	BRIDGETON BOREHOLE 0	510767.103	
722104.727	4294251.539	5361	10-Jul-15	BRIDGETON BOREHOLE 0	510768.195	
722104.574	4294251.236	5303	10-Jul-15	BRIDGETON BOREHOLE 0	510768.956	
722105.035	4294251.276	4655	10-Jul-15	BRIDGETON BOREHOLE 0	510769.976	
722104.716	4294250.843	5296	10-Jul-15	BRIDGETON BOREHOLE 0	510770.779	
722104.752	4294250.615	5019	10-Jul-15	BRIDGETON BOREHOLE 0	510771.858	
722104.619	4294250.306	4675	10-Jul-15	BRIDGETON BOREHOLE 0	510772.964	
722104.506	4294250.207	4910	10-Jul-15	BRIDGETON BOREHOLE 0	510774.039	
722104.775	4294250.605	4794	10-Jul-15	BRIDGETON BOREHOLE 0	510775.002	
722104.343	4294250.608	5029	10-Jul-15	BRIDGETON BOREHOLE 0	510776.115	
722104.046	4294250.726	5011	10-Jul-15	BRIDGETON BOREHOLE 0	510776.925	
722104.18	4294251.393	5294	10-Jul-15	BRIDGETON BOREHOLE 0	510777.957	
722103.902	4294251.241	4582	10-Jul-15	BRIDGETON BOREHOLE 0	510779.098	
722103.649	4294251.251	4895	10-Jul-15	BRIDGETON BOREHOLE 0	510780.223	
722104.05	4294251.722	5378	10-Jul-15	BRIDGETON BOREHOLE 0	510781.112	
722103.915	4294251.734	5170	10-Jul-15	BRIDGETON BOREHOLE 0	510782.152	
722103.358	4294251.428	5128	10-Jul-15	BRIDGETON BOREHOLE 0	510782.908	
722103.456	4294251.903	5179	10-Jul-15	BRIDGETON BOREHOLE 0	510784.162	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722103.885	4294252.373	5538	10-Jul-15	BRIDGETON BOREHOLE 0	510784.992	
722103.64	4294252.474	6040	10-Jul-15	BRIDGETON BOREHOLE 0	510785.926	
722103.091	4294252.251	5122	10-Jul-15	BRIDGETON BOREHOLE 0	510787.236	
722103.392	4294252.466	5161	10-Jul-15	BRIDGETON BOREHOLE 0	510788.155	
722103.741	4294252.845	4905	10-Jul-15	BRIDGETON BOREHOLE 0	510788.968	
722102.962	4294252.856	4852	10-Jul-15	BRIDGETON BOREHOLE 0	510790.011	
722102.823	4294252.901	4612	10-Jul-15	BRIDGETON BOREHOLE 0	510790.875	
722103.468	4294253.313	4296	10-Jul-15	BRIDGETON BOREHOLE 0	510792.088	
722103.111	4294253.38	5341	10-Jul-15	BRIDGETON BOREHOLE 0	510792.852	
722102.684	4294253.321	4887	10-Jul-15	BRIDGETON BOREHOLE 0	510793.802	
722103.157	4294253.74	4751	10-Jul-15	BRIDGETON BOREHOLE 0	510795.202	
722102.802	4294253.767	4720	10-Jul-15	BRIDGETON BOREHOLE 0	510796.259	
722102.401	4294253.625	4852	10-Jul-15	BRIDGETON BOREHOLE 0	510797.04	
722102.788	4294254.154	4612	10-Jul-15	BRIDGETON BOREHOLE 0	510798.036	
722102.51	4294253.98	5009	10-Jul-15	BRIDGETON BOREHOLE 0	510799.004	
722102.076	4294253.755	5127	10-Jul-15	BRIDGETON BOREHOLE 0	510800.002	
722102.03	4294254.127	5336	10-Jul-15	BRIDGETON BOREHOLE 0	510800.768	
722102.187	4294254.224	4778	10-Jul-15	BRIDGETON BOREHOLE 0	510832.833	
722102.076	4294254.241	5320	10-Jul-15	BRIDGETON BOREHOLE 0	510833.863	
722101.996	4294254.328	5677	10-Jul-15	BRIDGETON BOREHOLE 0	510835.119	
722101.91	4294254.393	5931	10-Jul-15	BRIDGETON BOREHOLE 0	510836.216	
722101.789	4294254.332	5706	10-Jul-15	BRIDGETON BOREHOLE 0	510836.999	
722101.525	4294253.93	5272	10-Jul-15	BRIDGETON BOREHOLE 0	510838.056	
722100.997	4294253.539	5470	10-Jul-15	BRIDGETON BOREHOLE 0	510838.876	
722101.073	4294253.072	5117	10-Jul-15	BRIDGETON BOREHOLE 0	510840.017	
722102.112	4294253.405	5308	10-Jul-15	BRIDGETON BOREHOLE 0	510841.091	
722101.853	4294253.281	5086	10-Jul-15	BRIDGETON BOREHOLE 0	510842.096	
722101.513	4294252.853	5336	10-Jul-15	BRIDGETON BOREHOLE 0	510842.702	
722102.278	4294252.818	5019	10-Jul-15	BRIDGETON BOREHOLE 0	510843.885	
722102.516	4294252.723	5208	10-Jul-15	BRIDGETON BOREHOLE 0	510845.034	
722102.244	4294252.142	4782	10-Jul-15	BRIDGETON BOREHOLE 0	510845.807	
722103.098	4294252.116	4745	10-Jul-15	BRIDGETON BOREHOLE 0	510847.004	
722103.118	4294252.124	4521	10-Jul-15	BRIDGETON BOREHOLE 0	510848.059	
722102.648	4294251.832	4260	10-Jul-15	BRIDGETON BOREHOLE 0	510848.829	
722102.787	4294251.999	4388	10-Jul-15	BRIDGETON BOREHOLE 0	510849.949	
722103.22	4294252.303	4785	10-Jul-15	BRIDGETON BOREHOLE 0	510851.043	
722102.759	4294251.647	5234	10-Jul-15	BRIDGETON BOREHOLE 0	510852.105	
722103.285	4294251.537	4909	10-Jul-15	BRIDGETON BOREHOLE 0	510852.86	
722103.632	4294251.602	5124	10-Jul-15	BRIDGETON BOREHOLE 0	510853.9	
722102.937	4294251.072	5409	10-Jul-15	BRIDGETON BOREHOLE 0	510855.052	
722103.369	4294251.108	5510	10-Jul-15	BRIDGETON BOREHOLE 0	510856.081	
722103.805	4294251.077	6032	10-Jul-15	BRIDGETON BOREHOLE 0	510856.855	
722103.608	4294250.68	5508	10-Jul-15	BRIDGETON BOREHOLE 0	510857.88	
722104.281	4294250.707	5610	10-Jul-15	BRIDGETON BOREHOLE 0	510858.831	
722104.035	4294250.242	5488	10-Jul-15	BRIDGETON BOREHOLE 0	510860.1	
722103.681	4294249.911	5067	10-Jul-15	BRIDGETON BOREHOLE 0	510860.913	
722103.712	4294250.099	5557	10-Jul-15	BRIDGETON BOREHOLE 0	510862.094	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722103.082	4294249.782	5083	10-Jul-15	BRIDGETON BOREHOLE 0	510863.037	
722103.436	4294250.276	5034	10-Jul-15	BRIDGETON BOREHOLE 0	510864.078	
722103.352	4294250.321	4752	10-Jul-15	BRIDGETON BOREHOLE 0	510864.735	
722103	4294250.107	4690	10-Jul-15	BRIDGETON BOREHOLE 0	510865.977	
722103.381	4294250.646	4281	10-Jul-15	BRIDGETON BOREHOLE 0	510866.967	
722103.02	4294250.495	4260	10-Jul-15	BRIDGETON BOREHOLE 0	510868.119	
722103.193	4294250.707	4346	10-Jul-15	BRIDGETON BOREHOLE 0	510868.875	
722103.352	4294250.916	4057	10-Jul-15	BRIDGETON BOREHOLE 0	510869.943	
722102.783	4294250.473	4772	10-Jul-15	BRIDGETON BOREHOLE 0	510870.994	
722103.228	4294250.594	4544	10-Jul-15	BRIDGETON BOREHOLE 0	510872.119	
722103.65	4294250.721	4573	10-Jul-15	BRIDGETON BOREHOLE 0	510873.101	
722103.138	4294250.436	4560	10-Jul-15	BRIDGETON BOREHOLE 0	510874.097	
722103.074	4294250.47	5122	10-Jul-15	BRIDGETON BOREHOLE 0	510874.855	
722103.368	4294251.137	5011	10-Jul-15	BRIDGETON BOREHOLE 0	510875.968	
722102.646	4294250.831	5048	10-Jul-15	BRIDGETON BOREHOLE 0	510876.89	
722102.569	4294251.126	5244	10-Jul-15	BRIDGETON BOREHOLE 0	510877.955	
722102.762	4294251.733	5365	10-Jul-15	BRIDGETON BOREHOLE 0	510879.006	
722102.034	4294251.526	4847	10-Jul-15	BRIDGETON BOREHOLE 0	510880.181	
722102.252	4294251.973	5126	10-Jul-15	BRIDGETON BOREHOLE 0	510881.02	
722102.006	4294252.162	5021	10-Jul-15	BRIDGETON BOREHOLE 0	510882.219	
722101.51	4294251.9	5374	10-Jul-15	BRIDGETON BOREHOLE 0	510882.978	
722101.899	4294252.387	5250	10-Jul-15	BRIDGETON BOREHOLE 0	510884.021	
722101.56	4294252.529	5278	10-Jul-15	BRIDGETON BOREHOLE 0	510884.807	
722100.979	4294252.313	5301	10-Jul-15	BRIDGETON BOREHOLE 0	510886.188	
722101.389	4294252.665	4827	10-Jul-15	BRIDGETON BOREHOLE 0	510886.832	
722101.026	4294252.695	4762	10-Jul-15	BRIDGETON BOREHOLE 0	510888.098	
722100.796	4294252.637	4524	10-Jul-15	BRIDGETON BOREHOLE 0	510889.085	
722101.2	4294252.987	4562	10-Jul-15	BRIDGETON BOREHOLE 0	510890.093	
722100.8	4294252.826	4726	10-Jul-15	BRIDGETON BOREHOLE 0	510890.85	
722100.323	4294252.58	5178	10-Jul-15	BRIDGETON BOREHOLE 0	510892.095	
722099.985	4294252.266	5313	10-Jul-15	BRIDGETON BOREHOLE 0	510892.889	
722099.816	4294251.586	5246	10-Jul-15	BRIDGETON BOREHOLE 0	510894.034	
722100.116	4294251.467	5358	10-Jul-15	BRIDGETON BOREHOLE 0	510895.083	
722100.652	4294251.782	5196	10-Jul-15	BRIDGETON BOREHOLE 0	510896.094	
722100.717	4294251.905	6065	10-Jul-15	BRIDGETON BOREHOLE 0	510896.85	
722100.35	4294251.131	5169	10-Jul-15	BRIDGETON BOREHOLE 0	510898.042	
722100.582	4294251.095	4647	10-Jul-15	BRIDGETON BOREHOLE 0	510899.034	
722100.97	4294251.197	4654	10-Jul-15	BRIDGETON BOREHOLE 0	510900.093	
722100.397	4294250.539	5093	10-Jul-15	BRIDGETON BOREHOLE 0	510901.109	
722100.825	4294250.388	5355	10-Jul-15	BRIDGETON BOREHOLE 0	510902.089	
722101.168	4294250.552	4587	10-Jul-15	BRIDGETON BOREHOLE 0	510902.845	
722100.628	4294249.954	4567	10-Jul-15	BRIDGETON BOREHOLE 0	510904.056	
722100.982	4294249.908	5066	10-Jul-15	BRIDGETON BOREHOLE 0	510905.062	
722101.468	4294250.172	4972	10-Jul-15	BRIDGETON BOREHOLE 0	510906.034	
722101.063	4294249.723	4784	10-Jul-15	BRIDGETON BOREHOLE 0	510906.807	
722101.427	4294249.435	4341	10-Jul-15	BRIDGETON BOREHOLE 0	510908.002	
722101.801	4294249.461	4692	10-Jul-15	BRIDGETON BOREHOLE 0	510909.162	

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722101.428	4294249.039	4611	10-Jul-15	BRIDGETON BOREHOLE 0	510909.961	
722101.96	4294249.038	4799	10-Jul-15	BRIDGETON BOREHOLE 0	510911.088	
722102.073	4294248.904	4942	10-Jul-15	BRIDGETON BOREHOLE 0	510912.095	
722101.784	4294248.609	5119	10-Jul-15	BRIDGETON BOREHOLE 0	510912.723	
722101.443	4294248.113	5242	10-Jul-15	BRIDGETON BOREHOLE 0	510913.888	
722101.394	4294248.024	5026	10-Jul-15	BRIDGETON BOREHOLE 0	510915.036	
722101.531	4294248.447	5070	10-Jul-15	BRIDGETON BOREHOLE 0	510916.098	
722101.117	4294248.31	4719	10-Jul-15	BRIDGETON BOREHOLE 0	510916.879	
722100.959	4294248.447	4484	10-Jul-15	BRIDGETON BOREHOLE 0	510917.893	
722100.675	4294248.425	4405	10-Jul-15	BRIDGETON BOREHOLE 0	510918.717	
722100.907	4294248.618	4645	10-Jul-15	BRIDGETON BOREHOLE 0	510920.117	
722101.348	4294249.034	4038	10-Jul-15	BRIDGETON BOREHOLE 0	510920.898	
722100.706	4294248.92	4273	10-Jul-15	BRIDGETON BOREHOLE 0	510922.094	
722100.535	4294249.038	4511	10-Jul-15	BRIDGETON BOREHOLE 0	510922.925	
722100.906	4294249.65	4517	10-Jul-15	BRIDGETON BOREHOLE 0	510924.085	
722100.589	4294249.345	4243	10-Jul-15	BRIDGETON BOREHOLE 0	510924.924	
722100.113	4294249.131	4622	10-Jul-15	BRIDGETON BOREHOLE 0	510926.037	
722100.443	4294249.671	4790	10-Jul-15	BRIDGETON BOREHOLE 0	510926.823	
722100.278	4294249.774	4434	10-Jul-15	BRIDGETON BOREHOLE 0	510928.194	
722099.798	4294249.543	4444	10-Jul-15	BRIDGETON BOREHOLE 0	510928.961	
722099.917	4294250.48	4367	10-Jul-15	BRIDGETON BOREHOLE 0	510930.1	
722100.025	4294250.818	4241	10-Jul-15	BRIDGETON BOREHOLE 0	510930.939	
722099.456	4294250.411	4290	10-Jul-15	BRIDGETON BOREHOLE 0	510932.094	
722099.4	4294250.782	4468	10-Jul-15	BRIDGETON BOREHOLE 0	510932.877	
722099.817	4294251.584	4553	10-Jul-15	BRIDGETON BOREHOLE 0	510934.037	
722099.347	4294251.533	4533	10-Jul-15	BRIDGETON BOREHOLE 0	510934.829	
722098.845	4294251.585	5092	10-Jul-15	BRIDGETON BOREHOLE 0	510936.003	
722099.374	4294252.399	5377	10-Jul-15	BRIDGETON BOREHOLE 0	510937.055	
722099.103	4294252.474	4839	10-Jul-15	BRIDGETON BOREHOLE 0	510938.002	
722098.695	4294252.179	4935	10-Jul-15	BRIDGETON BOREHOLE 0	510938.791	
722099.01	4294252.128	4920	10-Jul-15	BRIDGETON BOREHOLE 0	510939.906	
722099.112	4294252.364	4620	10-Jul-15	BRIDGETON BOREHOLE 0	510940.845	
722098.468	4294252.13	4616	10-Jul-15	BRIDGETON BOREHOLE 0	510942.033	
722098.548	4294251.687	4951	10-Jul-15	BRIDGETON BOREHOLE 0	510942.829	
722098.68	4294251.295	5425	10-Jul-15	BRIDGETON BOREHOLE 0	510943.802	
722098.205	4294250.558	5556	10-Jul-15	BRIDGETON BOREHOLE 0	510945.096	
722098.151	4294250.268	5458	10-Jul-15	BRIDGETON BOREHOLE 0	510946.18	
722098.627	4294250.451	5350	10-Jul-15	BRIDGETON BOREHOLE 0	510947.034	
722098.638	4294250.055	4937	10-Jul-15	BRIDGETON BOREHOLE 0	510948.052	
722098.53	4294249.82	5162	10-Jul-15	BRIDGETON BOREHOLE 0	510948.856	
722098.548	4294249.605	4853	10-Jul-15	BRIDGETON BOREHOLE 0	510950.037	
722098.59	4294249.685	5100	10-Jul-15	BRIDGETON BOREHOLE 0	510950.807	
722098.95	4294250.063	5021	10-Jul-15	BRIDGETON BOREHOLE 0	510952.002	
722098.473	4294249.542	5382	10-Jul-15	BRIDGETON BOREHOLE 0	510953.031	
722098.76	4294249.308	4970	10-Jul-15	BRIDGETON BOREHOLE 0	510953.733	
722099.6	4294249.301	5165	10-Jul-15	BRIDGETON BOREHOLE 0	510955.003	
722099.319	4294248.578	5703	10-Jul-15	BRIDGETON BOREHOLE 0	510956.226	

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722099.639	4294248.636	5353	10-Jul-15	BRIDGETON BOREHOLE 0	510957.037	
722099.933	4294248.753	5336	10-Jul-15	BRIDGETON BOREHOLE 0	510958.028	
722099.548	4294248.342	5041	10-Jul-15	BRIDGETON BOREHOLE 0	510959.01	
722100.129	4294248.945	4815	10-Jul-15	BRIDGETON BOREHOLE 0	510960.049	
722100.101	4294248.57	4426	10-Jul-15	BRIDGETON BOREHOLE 0	510960.815	
722099.862	4294248.039	4800	10-Jul-15	BRIDGETON BOREHOLE 0	510961.841	
722100.489	4294248.219	4462	10-Jul-15	BRIDGETON BOREHOLE 0	510962.923	
722100.604	4294248.154	4407	10-Jul-15	BRIDGETON BOREHOLE 0	510964.103	
722100.385	4294247.835	4886	10-Jul-15	BRIDGETON BOREHOLE 0	510964.908	
722101.065	4294248.113	4998	10-Jul-15	BRIDGETON BOREHOLE 0	510966.238	
722100.866	4294248.006	5009	10-Jul-15	BRIDGETON BOREHOLE 0	510967.05	
722100.775	4294247.839	5060	10-Jul-15	BRIDGETON BOREHOLE 0	510968.101	
722100.927	4294247.874	5253	10-Jul-15	BRIDGETON BOREHOLE 0	510968.865	
722100.267	4294247.531	5235	10-Jul-15	BRIDGETON BOREHOLE 0	510969.959	
722099.661	4294247.169	5667	10-Jul-15	BRIDGETON BOREHOLE 0	510971.003	
722098.994	4294246.765	5250	10-Jul-15	BRIDGETON BOREHOLE 0	510972.101	
722098.67	4294246.525	4820	10-Jul-15	BRIDGETON BOREHOLE 0	510972.884	
722098.009	4294245.878	5014	10-Jul-15	BRIDGETON BOREHOLE 0	510974.133	
722097.391	4294245.412	5055	10-Jul-15	BRIDGETON BOREHOLE 0	510974.903	
722096.793	4294245.023	5161	10-Jul-15	BRIDGETON BOREHOLE 0	510975.862	
722096.395	4294244.569	4890	10-Jul-15	BRIDGETON BOREHOLE 0	510976.786	
722095.883	4294244.187	5061	10-Jul-15	BRIDGETON BOREHOLE 0	510977.79	
722095.159	4294243.664	6071	10-Jul-15	BRIDGETON BOREHOLE 0	510979.101	
722094.676	4294243.19	5306	10-Jul-15	BRIDGETON BOREHOLE 0	510980.102	
722094.173	4294242.836	5205	10-Jul-15	BRIDGETON BOREHOLE 0	510981.007	
722093.514	4294242.188	5110	10-Jul-15	BRIDGETON BOREHOLE 0	510982.038	
722093.312	4294241.793	5192	10-Jul-15	BRIDGETON BOREHOLE 0	510982.72	
722092.813	4294241.246	4990	10-Jul-15	BRIDGETON BOREHOLE 0	510983.768	
722092.384	4294240.654	4907	10-Jul-15	BRIDGETON BOREHOLE 0	510984.715	
722091.844	4294239.92	5025	10-Jul-15	BRIDGETON BOREHOLE 0	510985.876	
722091.356	4294239.204	5481	10-Jul-15	BRIDGETON BOREHOLE 0	510987.098	
722091.01	4294238.684	5310	10-Jul-15	BRIDGETON BOREHOLE 0	510988.044	
722090.571	4294238.136	4712	10-Jul-15	BRIDGETON BOREHOLE 0	510988.858	
722089.936	4294237.326	4495	10-Jul-15	BRIDGETON BOREHOLE 0	510990.103	
722089.626	4294236.909	4523	10-Jul-15	BRIDGETON BOREHOLE 0	510990.863	
722088.857	4294236.472	4187	10-Jul-15	BRIDGETON BOREHOLE 0	510991.884	
722088.131	4294236.59	4320	10-Jul-15	BRIDGETON BOREHOLE 0	510992.629	
722087.4	4294237.134	4537	10-Jul-15	BRIDGETON BOREHOLE 0	510993.877	
722086.854	4294237.76	4360	10-Jul-15	BRIDGETON BOREHOLE 0	510995.042	
722086.239	4294238.435	4627	10-Jul-15	BRIDGETON BOREHOLE 0	510996.202	
722085.835	4294238.977	5033	10-Jul-15	BRIDGETON BOREHOLE 0	510997.068	
722085.546	4294239.672	4646	10-Jul-15	BRIDGETON BOREHOLE 0	510998.089	
722085.664	4294240.385	4526	10-Jul-15	BRIDGETON BOREHOLE 0	510998.882	
722086.597	4294240.97	4376	10-Jul-15	BRIDGETON BOREHOLE 0	511000.088	
722087.019	4294241.429	4816	10-Jul-15	BRIDGETON BOREHOLE 0	511000.852	
722087.694	4294242.041	4576	10-Jul-15	BRIDGETON BOREHOLE 0	511002.098	
722088.027	4294242.321	4554	10-Jul-15	BRIDGETON BOREHOLE 0	511002.722	

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722088.652	4294242.858	4684	10-Jul-15	BRIDGETON BOREHOLE 0	511003.817	
722089.346	4294243.389	5222	10-Jul-15	BRIDGETON BOREHOLE 0	511005.035	
722089.854	4294243.75	5037	10-Jul-15	BRIDGETON BOREHOLE 0	511005.885	
722090.584	4294244.255	4656	10-Jul-15	BRIDGETON BOREHOLE 0	511007.093	
722090.998	4294244.547	5266	10-Jul-15	BRIDGETON BOREHOLE 0	511007.851	
722091.619	4294245.138	5040	10-Jul-15	BRIDGETON BOREHOLE 0	511009.004	
722092.135	4294245.86	5227	10-Jul-15	BRIDGETON BOREHOLE 0	511010.101	
722092.544	4294246.343	5167	10-Jul-15	BRIDGETON BOREHOLE 0	511010.888	
722093.12	4294247.03	4916	10-Jul-15	BRIDGETON BOREHOLE 0	511011.842	
722093.939	4294247.671	4903	10-Jul-15	BRIDGETON BOREHOLE 0	511013.002	
722094.264	4294248.144	4850	10-Jul-15	BRIDGETON BOREHOLE 0	511014.092	
722094.638	4294248.494	4498	10-Jul-15	BRIDGETON BOREHOLE 0	511014.847	
722095.22	4294248.933	4848	10-Jul-15	BRIDGETON BOREHOLE 0	511015.845	
722095.84	4294249.537	4886	10-Jul-15	BRIDGETON BOREHOLE 0	511017.062	
722096.43	4294250.17	5141	10-Jul-15	BRIDGETON BOREHOLE 0	511018.103	
722096.804	4294250.539	5187	10-Jul-15	BRIDGETON BOREHOLE 0	511018.9	
722097.263	4294251.402	5295	10-Jul-15	BRIDGETON BOREHOLE 0	511020.042	
722097.643	4294251.825	5386	10-Jul-15	BRIDGETON BOREHOLE 0	511021.086	
722097.656	4294251.796	5422	10-Jul-15	BRIDGETON BOREHOLE 0	511021.864	
722097.645	4294251.716	5382	10-Jul-15	BRIDGETON BOREHOLE 0	511022.876	
722097.792	4294251.755	5858	10-Jul-15	BRIDGETON BOREHOLE 0	511024.039	
722098.222	4294251.397	5620	10-Jul-15	BRIDGETON BOREHOLE 0	511024.843	
722097.866	4294250.783	6071	10-Jul-15	BRIDGETON BOREHOLE 0	511025.839	
722097.401	4294250.724	4991	10-Jul-15	BRIDGETON BOREHOLE 0	511027.037	
722097.517	4294250.493	5050	10-Jul-15	BRIDGETON BOREHOLE 0	511028.147	
722097.5	4294250.541	4858	10-Jul-15	BRIDGETON BOREHOLE 0	511028.928	
722097.225	4294250.258	5020	10-Jul-15	BRIDGETON BOREHOLE 0	511030.068	
722097.293	4294249.468	5081	10-Jul-15	BRIDGETON BOREHOLE 0	511031.115	
722097.717	4294248.995	4635	10-Jul-15	BRIDGETON BOREHOLE 0	511032.132	
722098.015	4294248.73	4977	10-Jul-15	BRIDGETON BOREHOLE 0	511032.907	
722098.255	4294248.2	5050	10-Jul-15	BRIDGETON BOREHOLE 0	511034.026	
722098.394	4294247.697	5225	10-Jul-15	BRIDGETON BOREHOLE 0	511035.107	
722098.406	4294247.423	4919	10-Jul-15	BRIDGETON BOREHOLE 0	511035.907	
722098.419	4294247.61	4912	10-Jul-15	BRIDGETON BOREHOLE 0	511036.81	
722098.219	4294247.436	4968	10-Jul-15	BRIDGETON BOREHOLE 0	511038.092	
722097.463	4294246.839	5179	10-Jul-15	BRIDGETON BOREHOLE 0	511038.855	
722097.53	4294247.254	4983	10-Jul-15	BRIDGETON BOREHOLE 0	511040.101	
722097.656	4294247.594	4685	10-Jul-15	BRIDGETON BOREHOLE 0	511040.922	
722096.887	4294247.471	5290	10-Jul-15	BRIDGETON BOREHOLE 0	511041.848	
722097.162	4294247.814	5168	10-Jul-15	BRIDGETON BOREHOLE 0	511042.916	
722097.165	4294248.32	5000	10-Jul-15	BRIDGETON BOREHOLE 0	511043.748	
722096.258	4294248.401	4740	10-Jul-15	BRIDGETON BOREHOLE 0	511045.108	
722096.57	4294248.756	4931	10-Jul-15	BRIDGETON BOREHOLE 0	511045.863	
722096.319	4294249.063	5399	10-Jul-15	BRIDGETON BOREHOLE 0	511046.983	
722095.893	4294249.139	5377	10-Jul-15	BRIDGETON BOREHOLE 0	511047.869	
722095.954	4294249.494	4884	10-Jul-15	BRIDGETON BOREHOLE 0	511048.847	
722095.151	4294248.897	4720	10-Jul-15	BRIDGETON BOREHOLE 0	511049.946	

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722094.629	4294248.497	5302	10-Jul-15	BRIDGETON BOREHOLE 0	511050.763	
722095.238	4294248.219	5592	10-Jul-15	BRIDGETON BOREHOLE 0	511052.006	
722095.552	4294248.334	5216	10-Jul-15	BRIDGETON BOREHOLE 0	511052.829	
722095.161	4294247.827	5679	10-Jul-15	BRIDGETON BOREHOLE 0	511053.806	
722095.662	4294247.769	5647	10-Jul-15	BRIDGETON BOREHOLE 0	511054.759	
722095.945	4294247.569	5516	10-Jul-15	BRIDGETON BOREHOLE 0	511055.856	
722095.634	4294247.07	5773	10-Jul-15	BRIDGETON BOREHOLE 0	511056.843	
722096.45	4294247.302	5347	10-Jul-15	BRIDGETON BOREHOLE 0	511057.966	
722096.443	4294247.126	5460	10-Jul-15	BRIDGETON BOREHOLE 0	511058.972	
722096.303	4294246.734	4901	10-Jul-15	BRIDGETON BOREHOLE 0	511059.768	
722096.914	4294247.056	4707	10-Jul-15	BRIDGETON BOREHOLE 0	511060.975	
722096.708	4294246.259	5167	10-Jul-15	BRIDGETON BOREHOLE 0	511062.155	
722096.801	4294245.884	5509	10-Jul-15	BRIDGETON BOREHOLE 0	511063.03	
722097.3	4294246.039	5341	10-Jul-15	BRIDGETON BOREHOLE 0	511063.73	
722097.259	4294245.681	4902	10-Jul-15	BRIDGETON BOREHOLE 0	511064.814	
722097.193	4294245.456	4782	10-Jul-15	BRIDGETON BOREHOLE 0	511066.038	
722096.58	4294245.084	4895	10-Jul-15	BRIDGETON BOREHOLE 0	511066.794	
722096.118	4294244.913	4853	10-Jul-15	BRIDGETON BOREHOLE 0	511067.845	
722096.742	4294245.417	4417	10-Jul-15	BRIDGETON BOREHOLE 0	511068.958	
722096.34	4294245.128	4547	10-Jul-15	BRIDGETON BOREHOLE 0	511069.841	
722095.978	4294245.221	5047	10-Jul-15	BRIDGETON BOREHOLE 0	511070.725	
722096.306	4294245.95	5404	10-Jul-15	BRIDGETON BOREHOLE 0	511071.851	
722095.748	4294245.857	5125	10-Jul-15	BRIDGETON BOREHOLE 0	511072.935	
722095.687	4294246.147	4998	10-Jul-15	BRIDGETON BOREHOLE 0	511073.841	
722095.96	4294246.705	4663	10-Jul-15	BRIDGETON BOREHOLE 0	511074.735	
722095.302	4294246.759	4461	10-Jul-15	BRIDGETON BOREHOLE 0	511075.855	
722095.338	4294247.329	4699	10-Jul-15	BRIDGETON BOREHOLE 0	511076.984	
722095.431	4294247.623	5238	10-Jul-15	BRIDGETON BOREHOLE 0	511077.839	
722095	4294247.506	5249	10-Jul-15	BRIDGETON BOREHOLE 0	511078.71	
722095.042	4294247.958	5097	10-Jul-15	BRIDGETON BOREHOLE 0	511079.84	
722094.726	4294247.988	5185	10-Jul-15	BRIDGETON BOREHOLE 0	511080.96	
722094.469	4294248.208	4664	10-Jul-15	BRIDGETON BOREHOLE 0	511081.839	
722094.647	4294248.665	4708	10-Jul-15	BRIDGETON BOREHOLE 0	511082.711	
722094.144	4294248.68	4426	10-Jul-15	BRIDGETON BOREHOLE 0	511083.845	
722094.171	4294249.089	4424	10-Jul-15	BRIDGETON BOREHOLE 0	511085.015	
722093.847	4294248.699	5249	10-Jul-15	BRIDGETON BOREHOLE 0	511086.096	
722093.661	4294248.321	5225	10-Jul-15	BRIDGETON BOREHOLE 0	511086.611	
722094.036	4294247.771	5091	10-Jul-15	BRIDGETON BOREHOLE 0	511088.041	
722093.69	4294247.33	5061	10-Jul-15	BRIDGETON BOREHOLE 0	511088.826	
722093.564	4294246.704	4692	10-Jul-15	BRIDGETON BOREHOLE 0	511090.041	
722094.13	4294246.825	4724	10-Jul-15	BRIDGETON BOREHOLE 0	511090.799	
722093.906	4294246.369	4390	10-Jul-15	BRIDGETON BOREHOLE 0	511091.856	
722094.252	4294246.1	4051	10-Jul-15	BRIDGETON BOREHOLE 0	511093.037	
722094.634	4294246.131	4521	10-Jul-15	BRIDGETON BOREHOLE 0	511093.849	
722094.328	4294245.618	4298	10-Jul-15	BRIDGETON BOREHOLE 0	511094.851	
722094.832	4294245.772	4773	10-Jul-15	BRIDGETON BOREHOLE 0	511095.999	
722095.055	4294245.804	4934	10-Jul-15	BRIDGETON BOREHOLE 0	511096.791	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722094.845	4294245.266	5108	10-Jul-15	BRIDGETON BOREHOLE 0	511097.848	
722095.289	4294245.319	5003	10-Jul-15	BRIDGETON BOREHOLE 0	511098.719	
722095.596	4294245.187	5162	10-Jul-15	BRIDGETON BOREHOLE 0	511100.207	
722095.386	4294244.82	5198	10-Jul-15	BRIDGETON BOREHOLE 0	511100.987	
722096.08	4294245.192	4716	10-Jul-15	BRIDGETON BOREHOLE 0	511101.843	
722096.071	4294244.951	4430	10-Jul-15	BRIDGETON BOREHOLE 0	511102.709	
722096.205	4294244.724	4734	10-Jul-15	BRIDGETON BOREHOLE 0	511103.78	
722096.673	4294244.764	4980	10-Jul-15	BRIDGETON BOREHOLE 0	511104.9	
722096.123	4294244.144	4774	10-Jul-15	BRIDGETON BOREHOLE 0	511105.865	
722095.712	4294243.822	4905	10-Jul-15	BRIDGETON BOREHOLE 0	511106.643	
722095.105	4294243.309	4461	10-Jul-15	BRIDGETON BOREHOLE 0	511107.804	
722095.325	4294243.53	4399	10-Jul-15	BRIDGETON BOREHOLE 0	511109.11	
722095.768	4294243.778	4710	10-Jul-15	BRIDGETON BOREHOLE 0	511109.927	
722095.336	4294243.132	4321	10-Jul-15	BRIDGETON BOREHOLE 0	511110.99	
722095.123	4294243.746	4568	10-Jul-15	BRIDGETON BOREHOLE 0	511112.081	
722095.327	4294244.262	5577	10-Jul-15	BRIDGETON BOREHOLE 0	511112.917	
722094.696	4294244.002	5289	10-Jul-15	BRIDGETON BOREHOLE 0	511113.869	
722094.775	4294244.311	5008	10-Jul-15	BRIDGETON BOREHOLE 0	511114.722	
722094.837	4294244.85	5059	10-Jul-15	BRIDGETON BOREHOLE 0	511115.819	
722094.219	4294244.585	4998	10-Jul-15	BRIDGETON BOREHOLE 0	511117.065	
722094.393	4294245.305	4986	10-Jul-15	BRIDGETON BOREHOLE 0	511118.155	
722094.125	4294245.474	4410	10-Jul-15	BRIDGETON BOREHOLE 0	511119.052	
722093.794	4294245.398	4183	10-Jul-15	BRIDGETON BOREHOLE 0	511119.912	
722093.979	4294246.16	4190	10-Jul-15	BRIDGETON BOREHOLE 0	511121.014	
722093.356	4294246.047	4232	10-Jul-15	BRIDGETON BOREHOLE 0	511122.049	
722093.286	4294246.452	4203	10-Jul-15	BRIDGETON BOREHOLE 0	511122.856	
722092.904	4294246.266	5199	10-Jul-15	BRIDGETON BOREHOLE 0	511124.088	
722092.694	4294245.872	5174	10-Jul-15	BRIDGETON BOREHOLE 0	511124.896	
722092.963	4294246.04	5183	10-Jul-15	BRIDGETON BOREHOLE 0	511125.921	
722092.501	4294245.626	5203	10-Jul-15	BRIDGETON BOREHOLE 0	511126.877	
722092.262	4294245.397	4816	10-Jul-15	BRIDGETON BOREHOLE 0	511127.856	
722093.08	4294245.8	4666	10-Jul-15	BRIDGETON BOREHOLE 0	511129.032	
722092.8	4294245.261	4215	10-Jul-15	BRIDGETON BOREHOLE 0	511130.093	
722092.684	4294244.831	4373	10-Jul-15	BRIDGETON BOREHOLE 0	511130.847	
722093.387	4294245.112	4455	10-Jul-15	BRIDGETON BOREHOLE 0	511131.9041	
722093.438	4294244.83	4433	10-Jul-15	BRIDGETON BOREHOLE 0	511132.839	
722092.95	4294244.234	4533	10-Jul-15	BRIDGETON BOREHOLE 0	511133.932	
722093.336	4294244.37	4680	10-Jul-15	BRIDGETON BOREHOLE 0	511134.645	
722093.788	4294244.397	5212	10-Jul-15	BRIDGETON BOREHOLE 0	511135.99	
722093.343	4294243.896	5924	10-Jul-15	BRIDGETON BOREHOLE 0	511136.8409	
722093.808	4294243.866	5806	10-Jul-15	BRIDGETON BOREHOLE 0	511138.089	
722093.97	4294243.923	5538	10-Jul-15	BRIDGETON BOREHOLE 0	511138.844	
722093.417	4294243.251	5935	10-Jul-15	BRIDGETON BOREHOLE 0	511140.0861	
722093.659	4294243.346	5558	10-Jul-15	BRIDGETON BOREHOLE 0	511140.842	
722094.186	4294243.349	5159	10-Jul-15	BRIDGETON BOREHOLE 0	511142.007	
722094.02	4294242.95	4664	10-Jul-15	BRIDGETON BOREHOLE 0	511142.7111	
722094.558	4294243.062	4626	10-Jul-15	BRIDGETON BOREHOLE 0	511143.868	

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722094.23	4294242.707	4492	10-Jul-15	BRIDGETON BOREHOLE 0	511144.845	
722093.542	4294242.264	4777	10-Jul-15	BRIDGETON BOREHOLE 0	511146.021	
722093.257	4294242.582	5184	10-Jul-15	BRIDGETON BOREHOLE 0	511147.059	
722093.622	4294243.55	4858	10-Jul-15	BRIDGETON BOREHOLE 0	511148.104	
722093.581	4294243.626	5560	10-Jul-15	BRIDGETON BOREHOLE 0	511148.86	
722092.839	4294243.288	5355	10-Jul-15	BRIDGETON BOREHOLE 0	511149.96	
722092.956	4294244.184	5749	10-Jul-15	BRIDGETON BOREHOLE 0	511151.0861	
722092.994	4294244.618	5379	10-Jul-15	BRIDGETON BOREHOLE 0	511152.1	
722092.503	4294244.408	5354	10-Jul-15	BRIDGETON BOREHOLE 0	511152.7209	
722092.356	4294244.859	5538	10-Jul-15	BRIDGETON BOREHOLE 0	511153.84	
722092.586	4294245.516	5568	10-Jul-15	BRIDGETON BOREHOLE 0	511154.783	
722092.286	4294245.513	5884	10-Jul-15	BRIDGETON BOREHOLE 0	511155.697	
722091.96	4294245.67	5552	10-Jul-15	BRIDGETON BOREHOLE 0	511156.845	
722092.183	4294246.239	5403	10-Jul-15	BRIDGETON BOREHOLE 0	511157.7271	
722091.975	4294246.125	5102	10-Jul-15	BRIDGETON BOREHOLE 0	511158.803	
722091.473	4294245.935	4977	10-Jul-15	BRIDGETON BOREHOLE 0	511160.0229	
722091.761	4294246.47	4877	10-Jul-15	BRIDGETON BOREHOLE 0	511160.793	
722091.382	4294246.532	5068	10-Jul-15	BRIDGETON BOREHOLE 0	511161.842	
722091.017	4294246.745	4748	10-Jul-15	BRIDGETON BOREHOLE 0	511162.712	
722091.227	4294247.389	4576	10-Jul-15	BRIDGETON BOREHOLE 0	511163.845	
722090.858	4294247.445	4681	10-Jul-15	BRIDGETON BOREHOLE 0	511164.991	
722090.612	4294247.069	4583	10-Jul-15	BRIDGETON BOREHOLE 0	511166.059	
722090.443	4294246.624	5128	10-Jul-15	BRIDGETON BOREHOLE 0	511166.848	
722090.577	4294246.01	4504	10-Jul-15	BRIDGETON BOREHOLE 0	511168.0031	
722091.018	4294245.862	4416	10-Jul-15	BRIDGETON BOREHOLE 0	511168.785	
722091.374	4294245.462	4486	10-Jul-15	BRIDGETON BOREHOLE 0	511169.996	
722091.146	4294244.794	4706	10-Jul-15	BRIDGETON BOREHOLE 0	511170.743	
722091.638	4294244.334	4604	10-Jul-15	BRIDGETON BOREHOLE 0	511171.876	
722092.151	4294244.337	4855	10-Jul-15	BRIDGETON BOREHOLE 0	511172.657	
722091.974	4294243.452	4861	10-Jul-15	BRIDGETON BOREHOLE 0	511174.058	
722091.938	4294243.337	4909	10-Jul-15	BRIDGETON BOREHOLE 0	511174.693	
722092.533	4294243.275	4659	10-Jul-15	BRIDGETON BOREHOLE 0	511175.808	
722092.386	4294242.717	4630	10-Jul-15	BRIDGETON BOREHOLE 0	511176.853	
722092.201	4294242.439	4397	10-Jul-15	BRIDGETON BOREHOLE 0	511178.041	
722092.764	4294242.659	4753	10-Jul-15	BRIDGETON BOREHOLE 0	511178.802	
722092.921	4294242.552	4931	10-Jul-15	BRIDGETON BOREHOLE 0	511180.0389	
722092.636	4294242.183	5459	10-Jul-15	BRIDGETON BOREHOLE 0	511180.844	
722092.952	4294242.27	5103	10-Jul-15	BRIDGETON BOREHOLE 0	511181.844	
722093.347	4294242.206	4820	10-Jul-15	BRIDGETON BOREHOLE 0	511183.046	
722093.082	4294241.654	4766	10-Jul-15	BRIDGETON BOREHOLE 0	511184.098	
722093.548	4294241.645	5253	10-Jul-15	BRIDGETON BOREHOLE 0	511184.86	
722093.501	4294241.248	5595	10-Jul-15	BRIDGETON BOREHOLE 0	511186.004	
722092.982	4294241.197	5007	10-Jul-15	BRIDGETON BOREHOLE 0	511186.814	
722093.075	4294241.436	5096	10-Jul-15	BRIDGETON BOREHOLE 0	511187.689	
722092.653	4294241.206	4794	10-Jul-15	BRIDGETON BOREHOLE 0	511189.1021	
722092.503	4294241.295	5119	10-Jul-15	BRIDGETON BOREHOLE 0	511189.8571	
722092.229	4294240.931	4799	10-Jul-15	BRIDGETON BOREHOLE 0	511190.855	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722092.033	4294240.457	4687	10-Jul-15	BRIDGETON BOREHOLE 0	511191.828	
722091.35	4294240.825	4939	10-Jul-15	BRIDGETON BOREHOLE 0	511192.811	
722091.275	4294240.413	4945	10-Jul-15	BRIDGETON BOREHOLE 0	511194.116	
722091.001	4294240.06	4567	10-Jul-15	BRIDGETON BOREHOLE 0	511194.9139	
722090.546	4294240.233	4623	10-Jul-15	BRIDGETON BOREHOLE 0	511195.907	
722090.689	4294239.587	4903	10-Jul-15	BRIDGETON BOREHOLE 0	511196.751	
722090.173	4294239.406	5630	10-Jul-15	BRIDGETON BOREHOLE 0	511197.74	
722089.708	4294239.182	4929	10-Jul-15	BRIDGETON BOREHOLE 0	511198.845	
722089.795	4294238.541	4640	10-Jul-15	BRIDGETON BOREHOLE 0	511200.036	
722089.249	4294238.862	4702	10-Jul-15	BRIDGETON BOREHOLE 0	511200.818	
722089.206	4294238.394	4730	10-Jul-15	BRIDGETON BOREHOLE 0	511201.894	
722088.895	4294238.109	4603	10-Jul-15	BRIDGETON BOREHOLE 0	511202.958	
722088.518	4294238.14	4157	10-Jul-15	BRIDGETON BOREHOLE 0	511203.839	
722088.5	4294237.592	4505	10-Jul-15	BRIDGETON BOREHOLE 0	511204.728	
722088.014	4294237.669	4469	10-Jul-15	BRIDGETON BOREHOLE 0	511205.843	
722088.14	4294237.206	4276	10-Jul-15	BRIDGETON BOREHOLE 0	511207.0031	
722087.48	4294237.305	4948	10-Jul-15	BRIDGETON BOREHOLE 0	511208.051	
722087.413	4294237.952	5025	10-Jul-15	BRIDGETON BOREHOLE 0	511208.746	
722087.864	4294237.892	4687	10-Jul-15	BRIDGETON BOREHOLE 0	511209.8831	
722087.711	4294238.357	5651	10-Jul-15	BRIDGETON BOREHOLE 0	511210.641	
722087.517	4294239.052	4979	10-Jul-15	BRIDGETON BOREHOLE 0	511211.76	
722088.25	4294238.806	4938	10-Jul-15	BRIDGETON BOREHOLE 0	511212.8571	
722088.237	4294239.143	4795	10-Jul-15	BRIDGETON BOREHOLE 0	511213.905	
722088.219	4294239.762	4504	10-Jul-15	BRIDGETON BOREHOLE 0	511214.778	
722088.96	4294239.695	4784	10-Jul-15	BRIDGETON BOREHOLE 0	511215.834	
722089.158	4294240.01	4401	10-Jul-15	BRIDGETON BOREHOLE 0	511216.871	
722089.034	4294240.61	4710	10-Jul-15	BRIDGETON BOREHOLE 0	511217.799	
722089.715	4294240.345	4532	10-Jul-15	BRIDGETON BOREHOLE 0	511219.09	
722089.723	4294240.545	4417	10-Jul-15	BRIDGETON BOREHOLE 0	511219.869	
722089.696	4294241.07	4974	10-Jul-15	BRIDGETON BOREHOLE 0	511220.858	
722090.272	4294240.669	4748	10-Jul-15	BRIDGETON BOREHOLE 0	511221.905	
722090.137	4294241.025	4478	10-Jul-15	BRIDGETON BOREHOLE 0	511222.924	
722090.117	4294241.507	4611	10-Jul-15	BRIDGETON BOREHOLE 0	511224.0389	
722090.764	4294241.181	5076	10-Jul-15	BRIDGETON BOREHOLE 0	511224.8	
722090.533	4294241.88	4865	10-Jul-15	BRIDGETON BOREHOLE 0	511226.004	
722090.751	4294242.137	4949	10-Jul-15	BRIDGETON BOREHOLE 0	511227.012	
722091.162	4294241.831	4621	10-Jul-15	BRIDGETON BOREHOLE 0	511227.609	
722091.069	4294242.165	4692	10-Jul-15	BRIDGETON BOREHOLE 0	511228.767	
722091.287	4294242.243	4447	10-Jul-15	BRIDGETON BOREHOLE 0	511229.871	
722091.759	4294241.938	4331	10-Jul-15	BRIDGETON BOREHOLE 0	511230.707	
722091.597	4294242.337	4371	10-Jul-15	BRIDGETON BOREHOLE 0	511231.851	
722091.748	4294242.444	4529	10-Jul-15	BRIDGETON BOREHOLE 0	511232.726	
722092.284	4294242.257	4415	10-Jul-15	BRIDGETON BOREHOLE 0	511233.973	
722091.982	4294242.843	4463	10-Jul-15	BRIDGETON BOREHOLE 0	511234.749	
722092.159	4294242.973	4783	10-Jul-15	BRIDGETON BOREHOLE 0	511235.8879	
722092.602	4294242.691	4798	10-Jul-15	BRIDGETON BOREHOLE 0	511236.87	
722092.261	4294243.381	4761	10-Jul-15	BRIDGETON BOREHOLE 0	511237.8781	

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722092.323	4294243.569	4365	10-Jul-15	BRIDGETON BOREHOLE 0	511238.765	
722092.982	4294243.193	4593	10-Jul-15	BRIDGETON BOREHOLE 0	511240.0551	
722092.816	4294243.718	5036	10-Jul-15	BRIDGETON BOREHOLE 0	511240.803	
722092.934	4294244.2	4460	10-Jul-15	BRIDGETON BOREHOLE 0	511242.1121	
722093.05	4294244.292	5066	10-Jul-15	BRIDGETON BOREHOLE 0	511243.042	
722092.48	4294244.946	5025	10-Jul-15	BRIDGETON BOREHOLE 0	511244.043	
722092.29	4294245.04	5016	10-Jul-15	BRIDGETON BOREHOLE 0	511244.889	
722091.45	4294245.022	4554	10-Jul-15	BRIDGETON BOREHOLE 0	511246.004	
722091.473	4294244.453	4234	10-Jul-15	BRIDGETON BOREHOLE 0	511246.751	
722091.818	4294243.631	4406	10-Jul-15	BRIDGETON BOREHOLE 0	511248.058	
722091.208	4294243.888	4383	10-Jul-15	BRIDGETON BOREHOLE 0	511248.868	
722090.834	4294244.136	4761	10-Jul-15	BRIDGETON BOREHOLE 0	511249.847	
722090.89	4294244.101	5160	10-Jul-15	BRIDGETON BOREHOLE 0	511250.752	
722091.317	4294243.451	4972	10-Jul-15	BRIDGETON BOREHOLE 0	511251.824	
722091.039	4294243.295	4657	10-Jul-15	BRIDGETON BOREHOLE 0	511252.844	
722090.33	4294243.928	4524	10-Jul-15	BRIDGETON BOREHOLE 0	511254.0031	
722090.567	4294243.494	4720	10-Jul-15	BRIDGETON BOREHOLE 0	511254.833	
722090.62	4294243.395	4672	10-Jul-15	BRIDGETON BOREHOLE 0	511255.8521	
722090.698	4294243.238	4642	10-Jul-15	BRIDGETON BOREHOLE 0	511266.778	
722090.691	4294243.22	4449	10-Jul-15	BRIDGETON BOREHOLE 0	511267.85	
722090.77	4294243.033	4857	10-Jul-15	BRIDGETON BOREHOLE 0	511268.756	
722090.364	4294243.014	4450	10-Jul-15	BRIDGETON BOREHOLE 0	511269.906	
722089.756	4294243.474	4505	10-Jul-15	BRIDGETON BOREHOLE 0	511271.016	
722090.108	4294242.515	4304	10-Jul-15	BRIDGETON BOREHOLE 0	511272.0229	
722090.244	4294242.318	4806	10-Jul-15	BRIDGETON BOREHOLE 0	511272.671	
722089.571	4294242.666	4616	10-Jul-15	BRIDGETON BOREHOLE 0	511273.84	
722089.447	4294242.496	4771	10-Jul-15	BRIDGETON BOREHOLE 0	511274.579	
722090.063	4294241.85	4401	10-Jul-15	BRIDGETON BOREHOLE 0	511275.7371	
722089.697	4294242.004	4133	10-Jul-15	BRIDGETON BOREHOLE 0	511276.9139	
722089.18	4294242.372	3982	10-Jul-15	BRIDGETON BOREHOLE 0	511277.7791	
722089.34	4294241.818	3732	10-Jul-15	BRIDGETON BOREHOLE 0	511278.9449	
722089.559	4294241.518	4042	10-Jul-15	BRIDGETON BOREHOLE 0	511279.7271	
722088.991	4294241.789	4283	10-Jul-15	BRIDGETON BOREHOLE 0	511280.741	
722088.686	4294241.747	4059	10-Jul-15	BRIDGETON BOREHOLE 0	511282.042	
722089.163	4294241.262	4616	10-Jul-15	BRIDGETON BOREHOLE 0	511282.8199	
722088.916	4294241.322	4914	10-Jul-15	BRIDGETON BOREHOLE 0	511283.856	
722088.373	4294241.819	5005	10-Jul-15	BRIDGETON BOREHOLE 0	511284.946	
722088.69	4294241.199	4774	10-Jul-15	BRIDGETON BOREHOLE 0	511286.036	
722089.021	4294240.75	4912	10-Jul-15	BRIDGETON BOREHOLE 0	511286.844	
722088.991	4294240.349	4436	10-Jul-15	BRIDGETON BOREHOLE 0	511287.801	
722088.506	4294240.617	4542	10-Jul-15	BRIDGETON BOREHOLE 0	511288.739	
722088.021	4294241.054	4992	10-Jul-15	BRIDGETON BOREHOLE 0	511289.804	
722088.275	4294240.545	4668	10-Jul-15	BRIDGETON BOREHOLE 0	511290.7679	
722088.204	4294240.552	5341	10-Jul-15	BRIDGETON BOREHOLE 0	511292.042	
722087.643	4294241.116	5261	10-Jul-15	BRIDGETON BOREHOLE 0	511292.855	
722087.798	4294240.552	5142	10-Jul-15	BRIDGETON BOREHOLE 0	511294.053	
722087.985	4294240.253	4662	10-Jul-15	BRIDGETON BOREHOLE 0	511294.879	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722087.26	4294240.686	4842	10-Jul-15	BRIDGETON BOREHOLE 0	511296.042	
722087.125	4294240.583	4696	10-Jul-15	BRIDGETON BOREHOLE 0	511296.8781	
722087.447	4294240.041	4359	10-Jul-15	BRIDGETON BOREHOLE 0	511297.703	
722087.264	4294240.154	4282	10-Jul-15	BRIDGETON BOREHOLE 0	511298.871	
722086.834	4294240.453	4636	10-Jul-15	BRIDGETON BOREHOLE 0	511299.6689	
722086.977	4294240.032	4385	10-Jul-15	BRIDGETON BOREHOLE 0	511300.776	
722086.9	4294239.872	4709	10-Jul-15	BRIDGETON BOREHOLE 0	511301.873	
722086.276	4294240.285	5131	10-Jul-15	BRIDGETON BOREHOLE 0	511302.926	
722086.671	4294239.592	4619	10-Jul-15	BRIDGETON BOREHOLE 0	511304.021	
722087.235	4294239.869	4143	10-Jul-15	BRIDGETON BOREHOLE 0	511304.809	
722087.6	4294239.886	4295	10-Jul-15	BRIDGETON BOREHOLE 0	511305.5959	
722087.649	4294239.335	4021	10-Jul-15	BRIDGETON BOREHOLE 0	511306.708	
722086.761	4294239.153	4331	10-Jul-15	BRIDGETON BOREHOLE 0	511307.9189	
722086.886	4294238.831	4199	10-Jul-15	BRIDGETON BOREHOLE 0	511308.6591	
722086.671	4294238.813	4162	10-Jul-15	BRIDGETON BOREHOLE 0	511309.861	
722086.12	4294239.173	4066	10-Jul-15	BRIDGETON BOREHOLE 0	511310.754	
722086.482	4294238.777	4184	10-Jul-15	BRIDGETON BOREHOLE 0	511311.8459	
722086.816	4294238.963	4371	10-Jul-15	BRIDGETON BOREHOLE 0	511312.719	
722087.029	4294239.351	4784	10-Jul-15	BRIDGETON BOREHOLE 0	511313.84	
722087.56	4294239.23	4611	10-Jul-15	BRIDGETON BOREHOLE 0	511314.682	
722087.823	4294239.609	4768	10-Jul-15	BRIDGETON BOREHOLE 0	511315.936	
722087.971	4294239.976	4549	10-Jul-15	BRIDGETON BOREHOLE 0	511316.683	
722088.745	4294240.192	4419	10-Jul-15	BRIDGETON BOREHOLE 0	511318.022	
722088.683	4294240.634	4788	10-Jul-15	BRIDGETON BOREHOLE 0	511318.701	
722089.204	4294240.88	4681	10-Jul-15	BRIDGETON BOREHOLE 0	511319.806	
722089.522	4294241.167	4418	10-Jul-15	BRIDGETON BOREHOLE 0	511320.72	
722089.663	4294241.693	4630	10-Jul-15	BRIDGETON BOREHOLE 0	511321.875	
722090.127	4294241.742	4299	10-Jul-15	BRIDGETON BOREHOLE 0	511322.736	
722090.218	4294242.195	4706	10-Jul-15	BRIDGETON BOREHOLE 0	511324.032	
722090.599	4294242.208	4934	10-Jul-15	BRIDGETON BOREHOLE 0	511324.724	
722090.962	4294242.416	4605	10-Jul-15	BRIDGETON BOREHOLE 0	511325.86	
722091.005	4294242.721	5148	10-Jul-15	BRIDGETON BOREHOLE 0	511326.7061	
722091.331	4294242.907	5310	10-Jul-15	BRIDGETON BOREHOLE 0	511327.842	
722091.392	4294242.921	5057	10-Jul-15	BRIDGETON BOREHOLE 0	511328.991	
722247.976	4294305.054	5517	12-Jul-15	BRIDGETON BOREHOLE 0	37977.336	
722248.17	4294305.928	5496	12-Jul-15	BRIDGETON BOREHOLE 0	37978.039	
722248.517	4294307.592	5356	12-Jul-15	BRIDGETON BOREHOLE 0	37979.285	
722248.61	4294308.477	5885	12-Jul-15	BRIDGETON BOREHOLE 0	37980.16499	
722248.726	4294310.191	5328	12-Jul-15	BRIDGETON BOREHOLE 0	37981.285	
722248.627	4294311.148	5217	12-Jul-15	BRIDGETON BOREHOLE 0	37982.392	
722151.822	4294228.8	4741	12-Jul-15	BRIDGETON BOREHOLE 0	38322.211	
722151.748	4294228.782	4654	12-Jul-15	BRIDGETON BOREHOLE 0	38323.10199	
722151.688	4294228.749	4425	12-Jul-15	BRIDGETON BOREHOLE 0	38323.86801	
722151.653	4294228.808	4537	12-Jul-15	BRIDGETON BOREHOLE 0	38325.21301	
722151.594	4294228.89	4862	12-Jul-15	BRIDGETON BOREHOLE 0	38326.00101	
722151.545	4294228.894	4347	12-Jul-15	BRIDGETON BOREHOLE 0	38327.129	
722151.533	4294228.876	4582	12-Jul-15	BRIDGETON BOREHOLE 0	38327.91699	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722151.495	4294228.877	4505	12-Jul-15	BRIDGETON BOREHOLE 0	38329.039	
722151.447	4294228.888	4596	12-Jul-15	BRIDGETON BOREHOLE 0	38330.14099	
722151.365	4294228.859	5240	12-Jul-15	BRIDGETON BOREHOLE 0	38331.293	
722151.235	4294228.811	4882	12-Jul-15	BRIDGETON BOREHOLE 0	38332.23999	
722151.119	4294228.854	4756	12-Jul-15	BRIDGETON BOREHOLE 0	38333.36499	
722150.954	4294228.839	4895	12-Jul-15	BRIDGETON BOREHOLE 0	38334.121	
722150.509	4294228.591	5108	12-Jul-15	BRIDGETON BOREHOLE 0	38335.03601	
722150.378	4294228.53	4643	12-Jul-15	BRIDGETON BOREHOLE 0	38336.10001	
722150.549	4294228.985	4367	12-Jul-15	BRIDGETON BOREHOLE 0	38337.25601	
722150.843	4294229.44	4271	12-Jul-15	BRIDGETON BOREHOLE 0	38338.104	
722151.382	4294229.962	4345	12-Jul-15	BRIDGETON BOREHOLE 0	38339.17899	
722151.786	4294230.321	4205	12-Jul-15	BRIDGETON BOREHOLE 0	38340.10101	
722152.317	4294230.755	4015	12-Jul-15	BRIDGETON BOREHOLE 0	38341.319	
722152.587	4294231	3945	12-Jul-15	BRIDGETON BOREHOLE 0	38342.04099	
722152.964	4294231.266	4175	12-Jul-15	BRIDGETON BOREHOLE 0	38343.09201	
722153.169	4294231.647	4224	12-Jul-15	BRIDGETON BOREHOLE 0	38344.10501	
722152.851	4294231.679	4656	12-Jul-15	BRIDGETON BOREHOLE 0	38345.28302	
722152.496	4294231.661	4426	12-Jul-15	BRIDGETON BOREHOLE 0	38346.10999	
722152.241	4294231.979	4972	12-Jul-15	BRIDGETON BOREHOLE 0	38347.11902	
722151.977	4294232.268	4987	12-Jul-15	BRIDGETON BOREHOLE 0	38348.04199	
722151.799	4294232.505	5047	12-Jul-15	BRIDGETON BOREHOLE 0	38348.86499	
722151.448	4294232.818	5179	12-Jul-15	BRIDGETON BOREHOLE 0	38350.224	
722151.132	4294233.096	4991	12-Jul-15	BRIDGETON BOREHOLE 0	38351.30298	
722150.873	4294233.254	4795	12-Jul-15	BRIDGETON BOREHOLE 0	38352.14099	
722150.582	4294233.465	5299	12-Jul-15	BRIDGETON BOREHOLE 0	38353.03699	
722150.24	4294233.559	4781	12-Jul-15	BRIDGETON BOREHOLE 0	38354.09399	
722149.912	4294233.863	4714	12-Jul-15	BRIDGETON BOREHOLE 0	38355.16302	
722149.667	4294234.084	4721	12-Jul-15	BRIDGETON BOREHOLE 0	38356.21503	
722149.4	4294234.292	5093	12-Jul-15	BRIDGETON BOREHOLE 0	38357.25098	
722149.115	4294234.497	4965	12-Jul-15	BRIDGETON BOREHOLE 0	38358.09003	
722148.855	4294234.75	5155	12-Jul-15	BRIDGETON BOREHOLE 0	38359.104	
722148.493	4294235.075	5457	12-Jul-15	BRIDGETON BOREHOLE 0	38360.10699	
722148.234	4294235.476	5312	12-Jul-15	BRIDGETON BOREHOLE 0	38361.10498	
722147.922	4294235.892	5905	12-Jul-15	BRIDGETON BOREHOLE 0	38362.04303	
722147.67	4294236.101	5804	12-Jul-15	BRIDGETON BOREHOLE 0	38363.10303	
722147.318	4294236.34	5470	12-Jul-15	BRIDGETON BOREHOLE 0	38364.11401	
722147.008	4294236.608	5484	12-Jul-15	BRIDGETON BOREHOLE 0	38365.36499	
722146.814	4294236.747	5387	12-Jul-15	BRIDGETON BOREHOLE 0	38366.01398	
722146.459	4294237.029	5430	12-Jul-15	BRIDGETON BOREHOLE 0	38367.09998	
722146.179	4294237.265	5364	12-Jul-15	BRIDGETON BOREHOLE 0	38368.13098	
722145.834	4294237.604	5200	12-Jul-15	BRIDGETON BOREHOLE 0	38369.15802	
722145.615	4294237.732	4965	12-Jul-15	BRIDGETON BOREHOLE 0	38369.92603	
722145.341	4294238.047	4908	12-Jul-15	BRIDGETON BOREHOLE 0	38371.06	
722145.006	4294238.369	4545	12-Jul-15	BRIDGETON BOREHOLE 0	38372.24799	
722144.804	4294238.681	4589	12-Jul-15	BRIDGETON BOREHOLE 0	38373.11298	
722144.418	4294239.09	4456	12-Jul-15	BRIDGETON BOREHOLE 0	38374.13702	
722144.075	4294239.473	5034	12-Jul-15	BRIDGETON BOREHOLE 0	38375.19702	

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722143.776	4294239.746	5186	12-Jul-15	BRIDGETON BOREHOLE 0	38376.03699	
722143.415	4294240.161	5295	12-Jul-15	BRIDGETON BOREHOLE 0	38377.33099	
722143.265	4294240.47	5513	12-Jul-15	BRIDGETON BOREHOLE 0	38378.03699	
722143.175	4294241.081	4983	12-Jul-15	BRIDGETON BOREHOLE 0	38379.24298	
722143.017	4294241.568	5541	12-Jul-15	BRIDGETON BOREHOLE 0	38380.18298	
722142.816	4294242.012	5396	12-Jul-15	BRIDGETON BOREHOLE 0	38381.28302	
722142.741	4294242.3	5533	12-Jul-15	BRIDGETON BOREHOLE 0	38382.09399	
722142.591	4294242.791	5467	12-Jul-15	BRIDGETON BOREHOLE 0	38383.14203	
722142.465	4294243.259	5197	12-Jul-15	BRIDGETON BOREHOLE 0	38384.26099	
722142.398	4294243.738	5473	12-Jul-15	BRIDGETON BOREHOLE 0	38385.40302	
722142.385	4294244.102	5516	12-Jul-15	BRIDGETON BOREHOLE 0	38386.24103	
722142.325	4294244.613	5083	12-Jul-15	BRIDGETON BOREHOLE 0	38387.29303	
722142.266	4294244.988	4914	12-Jul-15	BRIDGETON BOREHOLE 0	38388.25098	
722142.304	4294245.45	5396	12-Jul-15	BRIDGETON BOREHOLE 0	38389.28003	
722142.352	4294245.924	6118	12-Jul-15	BRIDGETON BOREHOLE 0	38390.25403	
722142.249	4294246.197	5729	12-Jul-15	BRIDGETON BOREHOLE 0	38391.276	
722142.309	4294246.298	5757	12-Jul-15	BRIDGETON BOREHOLE 0	38392.03101	
722142.446	4294246.779	5743	12-Jul-15	BRIDGETON BOREHOLE 0	38393.04401	
722142.387	4294247.19	5810	12-Jul-15	BRIDGETON BOREHOLE 0	38394.065	
722142.554	4294247.352	6073	12-Jul-15	BRIDGETON BOREHOLE 0	38395.117	
722142.737	4294247.511	7608	12-Jul-15	BRIDGETON BOREHOLE 0	38396.10101	
722143.03	4294247.661	7992	12-Jul-15	BRIDGETON BOREHOLE 0	38397.10901	
722143.123	4294247.788	7038	12-Jul-15	BRIDGETON BOREHOLE 0	38397.89899	
722143.423	4294247.879	7849	12-Jul-15	BRIDGETON BOREHOLE 0	38398.93903	
722143.813	4294248.006	7662	12-Jul-15	BRIDGETON BOREHOLE 0	38399.76398	
722144.545	4294248.264	7555	12-Jul-15	BRIDGETON BOREHOLE 0	38401.22498	
722144.917	4294248.326	8069	12-Jul-15	BRIDGETON BOREHOLE 0	38402.25098	
722145.3	4294248.386	8797	12-Jul-15	BRIDGETON BOREHOLE 0	38403.237	
722145.733	4294248.502	7629	12-Jul-15	BRIDGETON BOREHOLE 0	38404.30499	
722146.188	4294248.772	8117	12-Jul-15	BRIDGETON BOREHOLE 0	38405.19397	
722146.449	4294249.332	7759	12-Jul-15	BRIDGETON BOREHOLE 0	38406.33099	
722146.413	4294249.801	8479	12-Jul-15	BRIDGETON BOREHOLE 0	38407.09802	
722146.206	4294250.359	7880	12-Jul-15	BRIDGETON BOREHOLE 0	38408.10797	
722146.111	4294250.92	8000	12-Jul-15	BRIDGETON BOREHOLE 0	38409.19501	
722145.957	4294251.356	6890	12-Jul-15	BRIDGETON BOREHOLE 0	38410.01202	
722145.643	4294251.91	7692	12-Jul-15	BRIDGETON BOREHOLE 0	38411.23499	
722145.439	4294252.301	7773	12-Jul-15	BRIDGETON BOREHOLE 0	38412.02197	
722145.115	4294252.589	6983	12-Jul-15	BRIDGETON BOREHOLE 0	38413.17401	
722144.978	4294252.461	6545	12-Jul-15	BRIDGETON BOREHOLE 0	38414.01099	
722145.044	4294252.134	7756	12-Jul-15	BRIDGETON BOREHOLE 0	38415.23798	
722145.188	4294251.922	7579	12-Jul-15	BRIDGETON BOREHOLE 0	38416.039	
722145.389	4294251.519	6874	12-Jul-15	BRIDGETON BOREHOLE 0	38417.14502	
722145.595	4294251.284	5978	12-Jul-15	BRIDGETON BOREHOLE 0	38417.922	
722145.852	4294250.875	6247	12-Jul-15	BRIDGETON BOREHOLE 0	38419.09998	
722145.871	4294250.662	5657	12-Jul-15	BRIDGETON BOREHOLE 0	38419.85901	
722145.993	4294250.231	6272	12-Jul-15	BRIDGETON BOREHOLE 0	38421.34302	
722145.992	4294249.979	7028	12-Jul-15	BRIDGETON BOREHOLE 0	38422.00201	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722145.954	4294249.419	6797	12-Jul-15	BRIDGETON BOREHOLE 0	38423.11298	
722145.329	4294249.569	8509	12-Jul-15	BRIDGETON BOREHOLE 0	38424.21503	
722144.866	4294249.966	6387	12-Jul-15	BRIDGETON BOREHOLE 0	38425.27301	
722144.738	4294250.319	5770	12-Jul-15	BRIDGETON BOREHOLE 0	38426.19501	
722144.695	4294250.62	5953	12-Jul-15	BRIDGETON BOREHOLE 0	38427.24799	
722144.491	4294250.852	5471	12-Jul-15	BRIDGETON BOREHOLE 0	38428.15997	
722144.235	4294251.218	5170	12-Jul-15	BRIDGETON BOREHOLE 0	38429.25702	
722144.084	4294251.697	5563	12-Jul-15	BRIDGETON BOREHOLE 0	38430.11603	
722144.033	4294251.856	6219	12-Jul-15	BRIDGETON BOREHOLE 0	38431.224	
722144.07	4294252.063	7344	12-Jul-15	BRIDGETON BOREHOLE 0	38432.08398	
722143.851	4294252.327	7896	12-Jul-15	BRIDGETON BOREHOLE 0	38433.224	
722143.648	4294252.226	8004	12-Jul-15	BRIDGETON BOREHOLE 0	38434.04303	
722143.614	4294251.824	6921	12-Jul-15	BRIDGETON BOREHOLE 0	38435.10303	
722143.769	4294251.767	6645	12-Jul-15	BRIDGETON BOREHOLE 0	38435.862	
722143.919	4294251.477	6191	12-Jul-15	BRIDGETON BOREHOLE 0	38437.10699	
722143.977	4294251.137	5786	12-Jul-15	BRIDGETON BOREHOLE 0	38438.09399	
722144.157	4294250.849	5550	12-Jul-15	BRIDGETON BOREHOLE 0	38439.09497	
722144.478	4294250.469	5589	12-Jul-15	BRIDGETON BOREHOLE 0	38440.20398	
722144.794	4294250.04	4876	12-Jul-15	BRIDGETON BOREHOLE 0	38441.30798	
722145.026	4294249.662	4715	12-Jul-15	BRIDGETON BOREHOLE 0	38442.20502	
722145.227	4294249.33	5360	12-Jul-15	BRIDGETON BOREHOLE 0	38443.09601	
722145.341	4294249.12	5647	12-Jul-15	BRIDGETON BOREHOLE 0	38443.88397	
722145.32	4294248.516	6977	12-Jul-15	BRIDGETON BOREHOLE 0	38445.034	
722144.966	4294248.252	7894	12-Jul-15	BRIDGETON BOREHOLE 0	38445.85498	
722144.469	4294248.511	7823	12-Jul-15	BRIDGETON BOREHOLE 0	38447.03497	
722144.162	4294248.924	6696	12-Jul-15	BRIDGETON BOREHOLE 0	38448.00098	
722143.881	4294249.325	4824	12-Jul-15	BRIDGETON BOREHOLE 0	38449.11499	
722143.658	4294249.806	4813	12-Jul-15	BRIDGETON BOREHOLE 0	38450.21002	
722143.399	4294250.358	4710	12-Jul-15	BRIDGETON BOREHOLE 0	38451.37598	
722143.294	4294250.692	4944	12-Jul-15	BRIDGETON BOREHOLE 0	38452.09497	
722143.097	4294251.239	4918	12-Jul-15	BRIDGETON BOREHOLE 0	38453.20398	
722142.96	4294251.526	5564	12-Jul-15	BRIDGETON BOREHOLE 0	38454.00702	
722142.664	4294251.632	5920	12-Jul-15	BRIDGETON BOREHOLE 0	38454.93701	
722142.442	4294251.386	5955	12-Jul-15	BRIDGETON BOREHOLE 0	38456.08698	
722142.611	4294251.278	6433	12-Jul-15	BRIDGETON BOREHOLE 0	38457.22198	
722142.807	4294251.169	6588	12-Jul-15	BRIDGETON BOREHOLE 0	38458.112	
722143.021	4294250.978	5500	12-Jul-15	BRIDGETON BOREHOLE 0	38459.14099	
722143.32	4294250.676	5306	12-Jul-15	BRIDGETON BOREHOLE 0	38460.10199	
722143.449	4294250.476	4942	12-Jul-15	BRIDGETON BOREHOLE 0	38460.91498	
722143.624	4294250.055	4940	12-Jul-15	BRIDGETON BOREHOLE 0	38462.03601	
722143.715	4294249.684	5336	12-Jul-15	BRIDGETON BOREHOLE 0	38463.091	
722143.936	4294249.341	5124	12-Jul-15	BRIDGETON BOREHOLE 0	38463.88898	
722144.093	4294248.933	5612	12-Jul-15	BRIDGETON BOREHOLE 0	38464.84998	
722144.127	4294248.328	6187	12-Jul-15	BRIDGETON BOREHOLE 0	38466.03699	
722143.618	4294248.569	5746	12-Jul-15	BRIDGETON BOREHOLE 0	38467.25598	
722143.325	4294248.937	5437	12-Jul-15	BRIDGETON BOREHOLE 0	38468.03802	
722143.015	4294249.385	4828	12-Jul-15	BRIDGETON BOREHOLE 0	38469.19098	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722142.827	4294249.708	5063	12-Jul-15	BRIDGETON BOREHOLE 0	38470.01703	
722142.588	4294250.253	5030	12-Jul-15	BRIDGETON BOREHOLE 0	38471.23499	
722142.497	4294250.471	5259	12-Jul-15	BRIDGETON BOREHOLE 0	38472.09399	
722142.317	4294250.955	4818	12-Jul-15	BRIDGETON BOREHOLE 0	38473.09198	
722142.224	4294251.316	5290	12-Jul-15	BRIDGETON BOREHOLE 0	38474.10602	
722142.082	4294251.482	5795	12-Jul-15	BRIDGETON BOREHOLE 0	38475.09198	
722141.997	4294251.369	5982	12-Jul-15	BRIDGETON BOREHOLE 0	38475.85901	
722142.318	4294251.245	6102	12-Jul-15	BRIDGETON BOREHOLE 0	38477.104	
722142.55	4294251.24	5755	12-Jul-15	BRIDGETON BOREHOLE 0	38478.10199	
722142.717	4294250.78	5667	12-Jul-15	BRIDGETON BOREHOLE 0	38479.29999	
722142.863	4294250.474	4860	12-Jul-15	BRIDGETON BOREHOLE 0	38480.10602	
722143.073	4294250.108	4473	12-Jul-15	BRIDGETON BOREHOLE 0	38481.10199	
722143.288	4294249.667	4789	12-Jul-15	BRIDGETON BOREHOLE 0	38482.09198	
722143.594	4294249.35	4913	12-Jul-15	BRIDGETON BOREHOLE 0	38483.21899	
722143.746	4294249.091	4691	12-Jul-15	BRIDGETON BOREHOLE 0	38484.034	
722143.819	4294248.501	5706	12-Jul-15	BRIDGETON BOREHOLE 0	38485.078	
722142.951	4294248.478	5820	12-Jul-15	BRIDGETON BOREHOLE 0	38486.08002	
722142.512	4294249.004	5988	12-Jul-15	BRIDGETON BOREHOLE 0	38487.21899	
722142.293	4294249.352	5020	12-Jul-15	BRIDGETON BOREHOLE 0	38488.02002	
722142.112	4294249.751	4639	12-Jul-15	BRIDGETON BOREHOLE 0	38489.11499	
722141.951	4294250.157	4589	12-Jul-15	BRIDGETON BOREHOLE 0	38490.112	
722141.762	4294250.526	4696	12-Jul-15	BRIDGETON BOREHOLE 0	38491.14398	
722141.69	4294250.777	4164	12-Jul-15	BRIDGETON BOREHOLE 0	38491.91498	
722141.574	4294251.314	4345	12-Jul-15	BRIDGETON BOREHOLE 0	38493.276	
722141.535	4294251.543	5069	12-Jul-15	BRIDGETON BOREHOLE 0	38494.08698	
722141.562	4294251.616	5603	12-Jul-15	BRIDGETON BOREHOLE 0	38495.20599	
722141.692	4294251.626	7486	12-Jul-15	BRIDGETON BOREHOLE 0	38496.034	
722141.713	4294251.599	6311	12-Jul-15	BRIDGETON BOREHOLE 0	38497.03998	
722141.933	4294251.227	5471	12-Jul-15	BRIDGETON BOREHOLE 0	38498.151	
722142.201	4294250.673	5478	12-Jul-15	BRIDGETON BOREHOLE 0	38499.26501	
722142.281	4294250.441	5008	12-Jul-15	BRIDGETON BOREHOLE 0	38500.034	
722142.394	4294250.169	4992	12-Jul-15	BRIDGETON BOREHOLE 0	38500.96399	
722142.597	4294249.63	4675	12-Jul-15	BRIDGETON BOREHOLE 0	38502.19702	
722142.84	4294249.283	4820	12-Jul-15	BRIDGETON BOREHOLE 0	38503.086	
722143.007	4294248.87	4518	12-Jul-15	BRIDGETON BOREHOLE 0	38504.20801	
722143.162	4294248.415	4859	12-Jul-15	BRIDGETON BOREHOLE 0	38505.10699	
722143.063	4294248.005	5756	12-Jul-15	BRIDGETON BOREHOLE 0	38505.86102	
722143.03	4294248.197	5518	12-Jul-15	BRIDGETON BOREHOLE 0	38507.09698	
722142.899	4294248.646	5084	12-Jul-15	BRIDGETON BOREHOLE 0	38508.14398	
722142.422	4294248.97	4974	12-Jul-15	BRIDGETON BOREHOLE 0	38509.24597	
722142.15	4294249.217	4650	12-Jul-15	BRIDGETON BOREHOLE 0	38510.01398	
722141.811	4294249.718	4753	12-Jul-15	BRIDGETON BOREHOLE 0	38511.03601	
722141.535	4294250.19	4773	12-Jul-15	BRIDGETON BOREHOLE 0	38512.203	
722141.47	4294250.517	4905	12-Jul-15	BRIDGETON BOREHOLE 0	38513.05603	
722141.336	4294250.899	5001	12-Jul-15	BRIDGETON BOREHOLE 0	38513.81097	
722141.174	4294251.025	5033	12-Jul-15	BRIDGETON BOREHOLE 0	38515.099	
722141.136	4294251.06	5381	12-Jul-15	BRIDGETON BOREHOLE 0	38516.086	

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722141.31	4294251.159	6034	12-Jul-15	BRIDGETON BOREHOLE 0	38517.19501	
722141.341	4294250.901	5389	12-Jul-15	BRIDGETON BOREHOLE 0	38518.09601	
722141.439	4294250.449	4951	12-Jul-15	BRIDGETON BOREHOLE 0	38519.20203	
722141.534	4294250.174	5102	12-Jul-15	BRIDGETON BOREHOLE 0	38520.03601	
722141.604	4294249.916	4475	12-Jul-15	BRIDGETON BOREHOLE 0	38521.10699	
722141.673	4294249.685	4564	12-Jul-15	BRIDGETON BOREHOLE 0	38521.93402	
722141.921	4294249.242	4742	12-Jul-15	BRIDGETON BOREHOLE 0	38523.11102	
722142.121	4294248.845	4707	12-Jul-15	BRIDGETON BOREHOLE 0	38524.26703	
722142.308	4294248.515	4598	12-Jul-15	BRIDGETON BOREHOLE 0	38525.09698	
722142.399	4294248.125	4941	12-Jul-15	BRIDGETON BOREHOLE 0	38526.12799	
722142.273	4294247.744	5734	12-Jul-15	BRIDGETON BOREHOLE 0	38527.28198	
722141.751	4294247.968	7220	12-Jul-15	BRIDGETON BOREHOLE 0	38528.10498	
722141.33	4294248.512	5615	12-Jul-15	BRIDGETON BOREHOLE 0	38529.18799	
722140.942	4294248.94	5400	12-Jul-15	BRIDGETON BOREHOLE 0	38530.03601	
722140.55	4294249.163	4733	12-Jul-15	BRIDGETON BOREHOLE 0	38531.22699	
722140.377	4294249.49	4620	12-Jul-15	BRIDGETON BOREHOLE 0	38531.98297	
722140.348	4294249.785	4638	12-Jul-15	BRIDGETON BOREHOLE 0	38532.84399	
722140.257	4294250.176	4769	12-Jul-15	BRIDGETON BOREHOLE 0	38534.10602	
722140.219	4294250.328	4947	12-Jul-15	BRIDGETON BOREHOLE 0	38535.21997	
722140.389	4294250.571	5400	12-Jul-15	BRIDGETON BOREHOLE 0	38536.09302	
722140.478	4294250.759	5265	12-Jul-15	BRIDGETON BOREHOLE 0	38537.19501	
722140.209	4294250.867	5826	12-Jul-15	BRIDGETON BOREHOLE 0	38538	
722140.067	4294251.056	6352	12-Jul-15	BRIDGETON BOREHOLE 0	38538.896	
722140.296	4294251.518	5547	12-Jul-15	BRIDGETON BOREHOLE 0	38540.09998	
722139.985	4294251.499	6187	12-Jul-15	BRIDGETON BOREHOLE 0	38541.09497	
722139.753	4294251.536	7367	12-Jul-15	BRIDGETON BOREHOLE 0	38542.11298	
722139.558	4294251.615	7271	12-Jul-15	BRIDGETON BOREHOLE 0	38543.164	
722139.429	4294251.269	6228	12-Jul-15	BRIDGETON BOREHOLE 0	38543.987	
722139.749	4294251.139	5920	12-Jul-15	BRIDGETON BOREHOLE 0	38545.07001	
722139.754	4294251.074	5715	12-Jul-15	BRIDGETON BOREHOLE 0	38546.10699	
722139.818	4294250.756	5622	12-Jul-15	BRIDGETON BOREHOLE 0	38547.09698	
722140.004	4294250.527	5322	12-Jul-15	BRIDGETON BOREHOLE 0	38547.89502	
722139.915	4294249.957	5004	12-Jul-15	BRIDGETON BOREHOLE 0	38549.04303	
722139.693	4294249.687	4854	12-Jul-15	BRIDGETON BOREHOLE 0	38549.79999	
722140.368	4294249.671	5183	12-Jul-15	BRIDGETON BOREHOLE 0	38551.09998	
722140.626	4294249.506	4370	12-Jul-15	BRIDGETON BOREHOLE 0	38552.21997	
722140.53	4294249.027	4348	12-Jul-15	BRIDGETON BOREHOLE 0	38553.27399	
722140.525	4294248.915	4726	12-Jul-15	BRIDGETON BOREHOLE 0	38554.03101	
722141.165	4294248.947	4361	12-Jul-15	BRIDGETON BOREHOLE 0	38555.21802	
722141.462	4294249.136	4590	12-Jul-15	BRIDGETON BOREHOLE 0	38556.04303	
722141.56	4294248.834	4232	12-Jul-15	BRIDGETON BOREHOLE 0	38557.20898	
722141.165	4294248.497	4510	12-Jul-15	BRIDGETON BOREHOLE 0	38558.03699	
722140.712	4294248.24	3909	12-Jul-15	BRIDGETON BOREHOLE 0	38559.20001	
722141.079	4294248.126	4168	12-Jul-15	BRIDGETON BOREHOLE 0	38560.09302	
722141.494	4294248.353	4309	12-Jul-15	BRIDGETON BOREHOLE 0	38561.06	
722141.608	4294248.375	4426	12-Jul-15	BRIDGETON BOREHOLE 0	38561.86902	
722141.785	4294247.877	4710	12-Jul-15	BRIDGETON BOREHOLE 0	38563.08899	

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722141.509	4294247.558	5124	12-Jul-15	BRIDGETON BOREHOLE 0	38563.84698	
722141.192	4294247.267	4547	12-Jul-15	BRIDGETON BOREHOLE 0	38565.08899	
722141.05	4294247.548	5175	12-Jul-15	BRIDGETON BOREHOLE 0	38565.84497	
722140.768	4294247.88	4846	12-Jul-15	BRIDGETON BOREHOLE 0	38567.03699	
722140.46	4294248.15	4331	12-Jul-15	BRIDGETON BOREHOLE 0	38568.11902	
722140.303	4294248.388	4221	12-Jul-15	BRIDGETON BOREHOLE 0	38569.03601	
722140.224	4294248.614	4661	12-Jul-15	BRIDGETON BOREHOLE 0	38569.81403	
722140.077	4294249.087	4384	12-Jul-15	BRIDGETON BOREHOLE 0	38571.00201	
722139.985	4294249.485	4739	12-Jul-15	BRIDGETON BOREHOLE 0	38572.05902	
722139.741	4294249.913	4953	12-Jul-15	BRIDGETON BOREHOLE 0	38573.26001	
722139.522	4294250.223	5141	12-Jul-15	BRIDGETON BOREHOLE 0	38574.086	
722139.388	4294250.528	5479	12-Jul-15	BRIDGETON BOREHOLE 0	38575.112	
722139.221	4294250.706	5572	12-Jul-15	BRIDGETON BOREHOLE 0	38576.14301	
722139.002	4294250.909	6014	12-Jul-15	BRIDGETON BOREHOLE 0	38576.91699	
722138.67	4294250.996	6155	12-Jul-15	BRIDGETON BOREHOLE 0	38578.091	
722138.222	4294251.033	5428	12-Jul-15	BRIDGETON BOREHOLE 0	38579.198	
722137.876	4294250.805	5385	12-Jul-15	BRIDGETON BOREHOLE 0	38580.09601	
722137.436	4294250.711	5654	12-Jul-15	BRIDGETON BOREHOLE 0	38581.20099	
722137.066	4294250.633	5880	12-Jul-15	BRIDGETON BOREHOLE 0	38582.08698	
722136.552	4294250.673	6210	12-Jul-15	BRIDGETON BOREHOLE 0	38583.17798	
722136.241	4294250.625	6105	12-Jul-15	BRIDGETON BOREHOLE 0	38583.93402	
722135.726	4294250.576	6493	12-Jul-15	BRIDGETON BOREHOLE 0	38584.84198	
722135.218	4294250.464	5315	12-Jul-15	BRIDGETON BOREHOLE 0	38586.04199	
722134.64	4294250.41	6252	12-Jul-15	BRIDGETON BOREHOLE 0	38587.09302	
722134.313	4294250.207	5689	12-Jul-15	BRIDGETON BOREHOLE 0	38588.203	
722133.895	4294250.075	5600	12-Jul-15	BRIDGETON BOREHOLE 0	38589.08801	
722133.496	4294249.952	5362	12-Jul-15	BRIDGETON BOREHOLE 0	38589.84399	
722132.903	4294249.83	5424	12-Jul-15	BRIDGETON BOREHOLE 0	38591.09399	
722132.707	4294249.645	5496	12-Jul-15	BRIDGETON BOREHOLE 0	38591.85999	
722132.246	4294249.555	5626	12-Jul-15	BRIDGETON BOREHOLE 0	38593.099	
722131.962	4294249.426	5302	12-Jul-15	BRIDGETON BOREHOLE 0	38593.90002	
722131.358	4294249.192	5285	12-Jul-15	BRIDGETON BOREHOLE 0	38595.10797	
722130.767	4294248.893	5973	12-Jul-15	BRIDGETON BOREHOLE 0	38596.211	
722130.331	4294248.565	4979	12-Jul-15	BRIDGETON BOREHOLE 0	38597.09698	
722130.122	4294248.302	5741	12-Jul-15	BRIDGETON BOREHOLE 0	38597.85901	
722129.65	4294247.899	5756	12-Jul-15	BRIDGETON BOREHOLE 0	38599.09601	
722129.541	4294247.521	5413	12-Jul-15	BRIDGETON BOREHOLE 0	38599.87903	
722129.575	4294246.985	5355	12-Jul-15	BRIDGETON BOREHOLE 0	38601.03699	
722129.921	4294246.753	5007	12-Jul-15	BRIDGETON BOREHOLE 0	38601.87402	
722130.296	4294246.365	4774	12-Jul-15	BRIDGETON BOREHOLE 0	38602.84601	
722130.21	4294245.735	4957	12-Jul-15	BRIDGETON BOREHOLE 0	38604.091	
722130.525	4294245.234	5338	12-Jul-15	BRIDGETON BOREHOLE 0	38605.22998	
722130.802	4294244.862	5178	12-Jul-15	BRIDGETON BOREHOLE 0	38606.09998	
722131.202	4294244.469	5020	12-Jul-15	BRIDGETON BOREHOLE 0	38607.20697	
722131.552	4294244.14	4953	12-Jul-15	BRIDGETON BOREHOLE 0	38608.04199	
722131.907	4294243.735	4639	12-Jul-15	BRIDGETON BOREHOLE 0	38609.125	
722132.333	4294243.425	5197	12-Jul-15	BRIDGETON BOREHOLE 0	38610.19897	

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722132.804	4294243.052	5038	12-Jul-15	BRIDGETON BOREHOLE 0	38611.07202	
722133.126	4294242.598	5211	12-Jul-15	BRIDGETON BOREHOLE 0	38611.89001	
722133.457	4294242.188	5241	12-Jul-15	BRIDGETON BOREHOLE 0	38613.09399	
722133.668	4294241.873	5025	12-Jul-15	BRIDGETON BOREHOLE 0	38613.85199	
722133.918	4294241.719	4964	12-Jul-15	BRIDGETON BOREHOLE 0	38615.09302	
722134.167	4294241.554	4742	12-Jul-15	BRIDGETON BOREHOLE 0	38616.099	
722134.415	4294241.492	4655	12-Jul-15	BRIDGETON BOREHOLE 0	38617.29303	
722134.63	4294241.354	4681	12-Jul-15	BRIDGETON BOREHOLE 0	38618.10303	
722134.971	4294241.204	5243	12-Jul-15	BRIDGETON BOREHOLE 0	38619.24902	
722135.162	4294240.95	5424	12-Jul-15	BRIDGETON BOREHOLE 0	38620.00403	
722135.46	4294240.713	4933	12-Jul-15	BRIDGETON BOREHOLE 0	38620.84998	
722135.86	4294240.394	5250	12-Jul-15	BRIDGETON BOREHOLE 0	38622.03802	
722136.049	4294240.21	4880	12-Jul-15	BRIDGETON BOREHOLE 0	38622.85199	
722136.416	4294239.944	5393	12-Jul-15	BRIDGETON BOREHOLE 0	38624.091	
722136.749	4294239.694	5321	12-Jul-15	BRIDGETON BOREHOLE 0	38625.099	
722137.026	4294239.454	5243	12-Jul-15	BRIDGETON BOREHOLE 0	38625.909	
722137.372	4294239.099	5251	12-Jul-15	BRIDGETON BOREHOLE 0	38627.12799	
722137.62	4294238.894	4986	12-Jul-15	BRIDGETON BOREHOLE 0	38627.98102	
722137.82	4294238.693	4732	12-Jul-15	BRIDGETON BOREHOLE 0	38629.10303	
722138.036	4294238.561	5429	12-Jul-15	BRIDGETON BOREHOLE 0	38629.98499	
722138.338	4294238.326	5896	12-Jul-15	BRIDGETON BOREHOLE 0	38631.09998	
722138.635	4294238.16	5334	12-Jul-15	BRIDGETON BOREHOLE 0	38632.09003	
722139.063	4294237.87	5235	12-Jul-15	BRIDGETON BOREHOLE 0	38633.23499	
722139.377	4294237.634	4835	12-Jul-15	BRIDGETON BOREHOLE 0	38634.03601	
722139.754	4294237.332	4939	12-Jul-15	BRIDGETON BOREHOLE 0	38635.10303	
722140.104	4294237.073	5951	12-Jul-15	BRIDGETON BOREHOLE 0	38636.11298	
722140.308	4294236.868	5830	12-Jul-15	BRIDGETON BOREHOLE 0	38637.09302	
722140.603	4294236.633	5956	12-Jul-15	BRIDGETON BOREHOLE 0	38637.84998	
722141.052	4294236.232	5518	12-Jul-15	BRIDGETON BOREHOLE 0	38639.01501	
722141.344	4294235.812	5556	12-Jul-15	BRIDGETON BOREHOLE 0	38640.05603	
722141.517	4294235.518	5488	12-Jul-15	BRIDGETON BOREHOLE 0	38641.06201	
722141.708	4294235.297	5119	12-Jul-15	BRIDGETON BOREHOLE 0	38641.74103	
722142.322	4294234.848	5144	12-Jul-15	BRIDGETON BOREHOLE 0	38643.11102	
722142.607	4294234.553	5384	12-Jul-15	BRIDGETON BOREHOLE 0	38643.89502	
722142.965	4294234.323	5136	12-Jul-15	BRIDGETON BOREHOLE 0	38645.06201	
722143.133	4294234.067	4734	12-Jul-15	BRIDGETON BOREHOLE 0	38645.82001	
722143.495	4294233.587	4860	12-Jul-15	BRIDGETON BOREHOLE 0	38647.06	
722143.784	4294233.379	4556	12-Jul-15	BRIDGETON BOREHOLE 0	38648.00598	
722144.075	4294233.097	4625	12-Jul-15	BRIDGETON BOREHOLE 0	38649.09698	
722144.232	4294232.94	4859	12-Jul-15	BRIDGETON BOREHOLE 0	38649.85498	
722144.797	4294232.494	4818	12-Jul-15	BRIDGETON BOREHOLE 0	38651.03601	
722145.001	4294232.132	4383	12-Jul-15	BRIDGETON BOREHOLE 0	38652.13501	
722145.22	4294231.784	4595	12-Jul-15	BRIDGETON BOREHOLE 0	38653.15302	
722145.39	4294231.535	4827	12-Jul-15	BRIDGETON BOREHOLE 0	38653.90802	
722145.678	4294231.276	4762	12-Jul-15	BRIDGETON BOREHOLE 0	38654.84399	
722146.021	4294230.889	4854	12-Jul-15	BRIDGETON BOREHOLE 0	38656.03802	
722146.311	4294230.559	5032	12-Jul-15	BRIDGETON BOREHOLE 0	38657.15698	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722146.493	4294230.419	4826	12-Jul-15	BRIDGETON BOREHOLE 0	38657.979	
722147.051	4294230.042	4784	12-Jul-15	BRIDGETON BOREHOLE 0	38659.08801	
722147.53	4294229.817	4499	12-Jul-15	BRIDGETON BOREHOLE 0	38660.18799	
722147.873	4294229.922	4450	12-Jul-15	BRIDGETON BOREHOLE 0	38661.086	
722148.058	4294230.098	4408	12-Jul-15	BRIDGETON BOREHOLE 0	38661.84003	
722148.1	4294230.361	4527	12-Jul-15	BRIDGETON BOREHOLE 0	38663.03699	
722148.043	4294230.598	4114	12-Jul-15	BRIDGETON BOREHOLE 0	38664.03699	
722148.138	4294230.789	4009	12-Jul-15	BRIDGETON BOREHOLE 0	38665.00201	
722147.962	4294231.288	3940	12-Jul-15	BRIDGETON BOREHOLE 0	38666.08698	
722147.733	4294231.511	3798	12-Jul-15	BRIDGETON BOREHOLE 0	38667.12299	
722147.437	4294231.675	4128	12-Jul-15	BRIDGETON BOREHOLE 0	38667.88702	
722146.811	4294232.043	4152	12-Jul-15	BRIDGETON BOREHOLE 0	38669.09302	
722146.414	4294232.298	4990	12-Jul-15	BRIDGETON BOREHOLE 0	38669.84998	
722145.842	4294232.685	4329	12-Jul-15	BRIDGETON BOREHOLE 0	38671.04602	
722145.735	4294233.046	4813	12-Jul-15	BRIDGETON BOREHOLE 0	38671.89801	
722145.479	4294233.368	5084	12-Jul-15	BRIDGETON BOREHOLE 0	38673.117	
722145.264	4294233.416	4555	12-Jul-15	BRIDGETON BOREHOLE 0	38673.90503	
722145.067	4294233.732	4384	12-Jul-15	BRIDGETON BOREHOLE 0	38675.00299	
722144.954	4294233.807	4416	12-Jul-15	BRIDGETON BOREHOLE 0	38676.09998	
722144.839	4294233.849	4734	12-Jul-15	BRIDGETON BOREHOLE 0	38677.04199	
722144.57	4294234.026	4710	12-Jul-15	BRIDGETON BOREHOLE 0	38678.039	
722144.234	4294234.166	4299	12-Jul-15	BRIDGETON BOREHOLE 0	38679.104	
722143.92	4294234.23	4563	12-Jul-15	BRIDGETON BOREHOLE 0	38679.87097	
722143.338	4294234.481	4059	12-Jul-15	BRIDGETON BOREHOLE 0	38681.20502	
722142.862	4294234.598	4218	12-Jul-15	BRIDGETON BOREHOLE 0	38682.00201	
722142.579	4294234.814	4735	12-Jul-15	BRIDGETON BOREHOLE 0	38683.034	
722142.449	4294235.161	4628	12-Jul-15	BRIDGETON BOREHOLE 0	38684.09601	
722142.269	4294235.437	4591	12-Jul-15	BRIDGETON BOREHOLE 0	38685.09198	
722142.007	4294235.575	4585	12-Jul-15	BRIDGETON BOREHOLE 0	38685.84698	
722141.63	4294235.74	3906	12-Jul-15	BRIDGETON BOREHOLE 0	38687.005	
722141.399	4294235.961	4116	12-Jul-15	BRIDGETON BOREHOLE 0	38687.78699	
722141.026	4294236.25	3965	12-Jul-15	BRIDGETON BOREHOLE 0	38689.16699	
722140.763	4294236.176	4040	12-Jul-15	BRIDGETON BOREHOLE 0	38690.05298	
722140.775	4294236.529	4132	12-Jul-15	BRIDGETON BOREHOLE 0	38691.07397	
722140.496	4294236.931	4042	12-Jul-15	BRIDGETON BOREHOLE 0	38691.93201	
722140.397	4294237.161	3871	12-Jul-15	BRIDGETON BOREHOLE 0	38692.867	
722140.365	4294237.395	4215	12-Jul-15	BRIDGETON BOREHOLE 0	38693.85199	
722140.052	4294237.54	4335	12-Jul-15	BRIDGETON BOREHOLE 0	38694.789	
722139.679	4294237.628	4569	12-Jul-15	BRIDGETON BOREHOLE 0	38696.12799	
722139.249	4294238.079	4137	12-Jul-15	BRIDGETON BOREHOLE 0	38697.21301	
722139.011	4294238.241	4465	12-Jul-15	BRIDGETON BOREHOLE 0	38698.13397	
722138.864	4294238.535	4949	12-Jul-15	BRIDGETON BOREHOLE 0	38698.92603	
722138.464	4294238.996	4696	12-Jul-15	BRIDGETON BOREHOLE 0	38700.10199	
722138.222	4294239.421	4464	12-Jul-15	BRIDGETON BOREHOLE 0	38701.15399	
722138.046	4294239.6	4288	12-Jul-15	BRIDGETON BOREHOLE 0	38701.97601	
722137.893	4294239.737	4579	12-Jul-15	BRIDGETON BOREHOLE 0	38703.203	
722137.685	4294239.798	4841	12-Jul-15	BRIDGETON BOREHOLE 0	38704.08502	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722137.301	4294240.132	4358	12-Jul-15	BRIDGETON BOREHOLE 0	38705.21698	
722137.144	4294240.513	4274	12-Jul-15	BRIDGETON BOREHOLE 0	38706.09698	
722136.99	4294241.146	4076	12-Jul-15	BRIDGETON BOREHOLE 0	38707.09998	
722136.75	4294241.796	3950	12-Jul-15	BRIDGETON BOREHOLE 0	38707.89001	
722136.486	4294242.509	4170	12-Jul-15	BRIDGETON BOREHOLE 0	38709.05701	
722136.391	4294242.641	4085	12-Jul-15	BRIDGETON BOREHOLE 0	38709.797	
722135.902	4294242.393	4540	12-Jul-15	BRIDGETON BOREHOLE 0	38711.03497	
722135.582	4294242.596	4579	12-Jul-15	BRIDGETON BOREHOLE 0	38711.81	
722135.15	4294242.565	4578	12-Jul-15	BRIDGETON BOREHOLE 0	38713.24597	
722135.072	4294242.621	4120	12-Jul-15	BRIDGETON BOREHOLE 0	38714.06897	
722134.812	4294242.824	4162	12-Jul-15	BRIDGETON BOREHOLE 0	38715.29797	
722134.664	4294243.007	4366	12-Jul-15	BRIDGETON BOREHOLE 0	38716.08099	
722134.239	4294243.248	4458	12-Jul-15	BRIDGETON BOREHOLE 0	38717.10101	
722134.053	4294243.432	4060	12-Jul-15	BRIDGETON BOREHOLE 0	38717.71301	
722134.085	4294243.258	4616	12-Jul-15	BRIDGETON BOREHOLE 0	38719.03302	
722134.431	4294242.744	4651	12-Jul-15	BRIDGETON BOREHOLE 0	38719.79401	
722134.439	4294241.88	4814	12-Jul-15	BRIDGETON BOREHOLE 0	38721.00403	
722134.44	4294242.105	4605	12-Jul-15	BRIDGETON BOREHOLE 0	38722.138	
722134.743	4294242.409	4428	12-Jul-15	BRIDGETON BOREHOLE 0	38723.104	
722134.571	4294243.126	4433	12-Jul-15	BRIDGETON BOREHOLE 0	38724.09998	
722134.417	4294243.379	4826	12-Jul-15	BRIDGETON BOREHOLE 0	38725.00299	
722134.296	4294243.494	4544	12-Jul-15	BRIDGETON BOREHOLE 0	38725.802	
722133.954	4294243.91	5076	12-Jul-15	BRIDGETON BOREHOLE 0	38726.85797	
722133.47	4294244.609	4670	12-Jul-15	BRIDGETON BOREHOLE 0	38728.04199	
722133.21	4294245.017	4307	12-Jul-15	BRIDGETON BOREHOLE 0	38728.80402	
722132.848	4294245.277	4507	12-Jul-15	BRIDGETON BOREHOLE 0	38730.01898	
722132.563	4294245.69	4200	12-Jul-15	BRIDGETON BOREHOLE 0	38731.18298	
722132.313	4294246.081	4305	12-Jul-15	BRIDGETON BOREHOLE 0	38732.01001	
722132.005	4294246.316	4341	12-Jul-15	BRIDGETON BOREHOLE 0	38733.24799	
722131.803	4294246.402	4444	12-Jul-15	BRIDGETON BOREHOLE 0	38734.10303	
722131.584	4294246.5	4187	12-Jul-15	BRIDGETON BOREHOLE 0	38735.10999	
722131.295	4294246.527	4133	12-Jul-15	BRIDGETON BOREHOLE 0	38736.18701	
722131.191	4294246.657	4590	12-Jul-15	BRIDGETON BOREHOLE 0	38736.80798	
722131.11	4294246.8	4321	12-Jul-15	BRIDGETON BOREHOLE 0	38738.09802	
722131.12	4294246.901	4178	12-Jul-15	BRIDGETON BOREHOLE 0	38739.09698	
722131.178	4294247.067	3901	12-Jul-15	BRIDGETON BOREHOLE 0	38740.04303	
722131.281	4294247.167	4152	12-Jul-15	BRIDGETON BOREHOLE 0	38741.04602	
722131.482	4294247.121	4601	12-Jul-15	BRIDGETON BOREHOLE 0	38741.89801	
722131.96	4294246.96	4410	12-Jul-15	BRIDGETON BOREHOLE 0	38743.099	
722132.118	4294246.839	4221	12-Jul-15	BRIDGETON BOREHOLE 0	38743.901	
722132.306	4294246.444	4159	12-Jul-15	BRIDGETON BOREHOLE 0	38745.04602	
722132.456	4294246.201	3824	12-Jul-15	BRIDGETON BOREHOLE 0	38745.86798	
722132.74	4294245.944	3792	12-Jul-15	BRIDGETON BOREHOLE 0	38746.77698	
722133.091	4294245.507	3783	12-Jul-15	BRIDGETON BOREHOLE 0	38748.12701	
722133.235	4294245.275	3547	12-Jul-15	BRIDGETON BOREHOLE 0	38749.00201	
722133.466	4294245.107	3540	12-Jul-15	BRIDGETON BOREHOLE 0	38749.81702	
722133.718	4294244.778	3618	12-Jul-15	BRIDGETON BOREHOLE 0	38751.117	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722133.88	4294244.566	3759	12-Jul-15	BRIDGETON BOREHOLE 0	38751.87701	
722134.181	4294244.179	4120	12-Jul-15	BRIDGETON BOREHOLE 0	38753.04797	
722134.439	4294243.906	4275	12-Jul-15	BRIDGETON BOREHOLE 0	38753.90399	
722134.645	4294243.635	4752	12-Jul-15	BRIDGETON BOREHOLE 0	38755.12701	
722134.745	4294243.496	4578	12-Jul-15	BRIDGETON BOREHOLE 0	38755.94	
722134.892	4294243.294	4675	12-Jul-15	BRIDGETON BOREHOLE 0	38757.039	
722134.985	4294243.254	4317	12-Jul-15	BRIDGETON BOREHOLE 0	38757.83301	
722135.355	4294242.962	4386	12-Jul-15	BRIDGETON BOREHOLE 0	38759.00098	
722135.894	4294242.573	4282	12-Jul-15	BRIDGETON BOREHOLE 0	38760.04498	
722136.127	4294242.31	4186	12-Jul-15	BRIDGETON BOREHOLE 0	38761.00299	
722136.151	4294242.042	4132	12-Jul-15	BRIDGETON BOREHOLE 0	38761.78802	
722136.111	4294242.224	4507	12-Jul-15	BRIDGETON BOREHOLE 0	38763.08301	
722135.975	4294242.296	5047	12-Jul-15	BRIDGETON BOREHOLE 0	38764.04102	
722135.979	4294242.298	4691	12-Jul-15	BRIDGETON BOREHOLE 0	38765.14099	
722135.934	4294242.368	4229	12-Jul-15	BRIDGETON BOREHOLE 0	38766.013	
722135.995	4294242.362	4351	12-Jul-15	BRIDGETON BOREHOLE 0	38767.08502	
722136.038	4294242.367	4570	12-Jul-15	BRIDGETON BOREHOLE 0	38767.95502	
722136.068	4294242.4	4745	12-Jul-15	BRIDGETON BOREHOLE 0	38768.73102	
722136.12	4294242.424	4927	12-Jul-15	BRIDGETON BOREHOLE 0	38769.836	
722136.128	4294242.457	4631	12-Jul-15	BRIDGETON BOREHOLE 0	38771.05701	
722136.114	4294242.49	4465	12-Jul-15	BRIDGETON BOREHOLE 0	38771.83099	
722136.18	4294242.33	4379	12-Jul-15	BRIDGETON BOREHOLE 0	38773.03497	
722136.033	4294242.349	4368	12-Jul-15	BRIDGETON BOREHOLE 0	38774.073	
722136.172	4294242.291	4182	12-Jul-15	BRIDGETON BOREHOLE 0	38775.09601	
722136.516	4294242.123	4160	12-Jul-15	BRIDGETON BOREHOLE 0	38775.86298	
722136.887	4294241.821	3885	12-Jul-15	BRIDGETON BOREHOLE 0	38777.12	
722136.955	4294241.82	4338	12-Jul-15	BRIDGETON BOREHOLE 0	38777.87402	
722137.076	4294241.688	4390	12-Jul-15	BRIDGETON BOREHOLE 0	38779.29797	
722143.722	4294235.514	5574	12-Jul-15	BRIDGETON BOREHOLE 0	38889.76196	
722143.799	4294235.737	5542	12-Jul-15	BRIDGETON BOREHOLE 0	38890.849	
722143.52	4294235.321	5405	12-Jul-15	BRIDGETON BOREHOLE 0	38892.15906	
722143.493	4294235.339	5133	12-Jul-15	BRIDGETON BOREHOLE 0	38892.96997	
722143.319	4294235.355	4785	12-Jul-15	BRIDGETON BOREHOLE 0	38894.00305	
722143.501	4294235.585	4401	12-Jul-15	BRIDGETON BOREHOLE 0	38895.12805	
722143.585	4294235.58	4703	12-Jul-15	BRIDGETON BOREHOLE 0	38895.92896	
722143.721	4294235.376	4325	12-Jul-15	BRIDGETON BOREHOLE 0	38897.08997	
722144.004	4294235.173	4413	12-Jul-15	BRIDGETON BOREHOLE 0	38897.84595	
722144.408	4294234.834	4777	12-Jul-15	BRIDGETON BOREHOLE 0	38898.95105	
722144.687	4294234.626	4847	12-Jul-15	BRIDGETON BOREHOLE 0	38899.70801	
722145.126	4294234.256	4414	12-Jul-15	BRIDGETON BOREHOLE 0	38900.84094	
722145.309	4294233.957	4275	12-Jul-15	BRIDGETON BOREHOLE 0	38902.03601	
722145.624	4294233.636	4084	12-Jul-15	BRIDGETON BOREHOLE 0	38903.10095	
722145.861	4294233.424	4562	12-Jul-15	BRIDGETON BOREHOLE 0	38903.87	
722146.335	4294233.016	4441	12-Jul-15	BRIDGETON BOREHOLE 0	38905.21997	
722146.577	4294232.735	4305	12-Jul-15	BRIDGETON BOREHOLE 0	38906.052	
722146.948	4294232.421	4012	12-Jul-15	BRIDGETON BOREHOLE 0	38907.10205	
722147.148	4294232.113	3889	12-Jul-15	BRIDGETON BOREHOLE 0	38907.875	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722147.464	4294231.822	4005	12-Jul-15	BRIDGETON BOREHOLE 0	38909.03699	
722147.841	4294231.571	4031	12-Jul-15	BRIDGETON BOREHOLE 0	38909.79102	
722148.344	4294231.529	4180	12-Jul-15	BRIDGETON BOREHOLE 0	38910.84705	
722148.118	4294231.897	3888	12-Jul-15	BRIDGETON BOREHOLE 0	38911.96802	
722147.502	4294232.519	3940	12-Jul-15	BRIDGETON BOREHOLE 0	38913.09302	
722147.152	4294232.851	4322	12-Jul-15	BRIDGETON BOREHOLE 0	38913.85498	
722146.596	4294233.468	4321	12-Jul-15	BRIDGETON BOREHOLE 0	38914.90601	
722146.376	4294233.666	4575	12-Jul-15	BRIDGETON BOREHOLE 0	38915.797	
722146.101	4294233.99	4576	12-Jul-15	BRIDGETON BOREHOLE 0	38916.90796	
722145.911	4294234.143	4636	12-Jul-15	BRIDGETON BOREHOLE 0	38917.69202	
722145.722	4294234.298	4738	12-Jul-15	BRIDGETON BOREHOLE 0	38918.802	
722145.371	4294234.529	4397	12-Jul-15	BRIDGETON BOREHOLE 0	38920.09497	
722145.133	4294234.75	4438	12-Jul-15	BRIDGETON BOREHOLE 0	38921.15295	
722144.987	4294234.928	4402	12-Jul-15	BRIDGETON BOREHOLE 0	38921.73804	
722144.77	4294235.454	4636	12-Jul-15	BRIDGETON BOREHOLE 0	38922.84705	
722145.038	4294233.839	4712	12-Jul-15	BRIDGETON BOREHOLE 0	39003.08496	
722144.968	4294233.613	4315	12-Jul-15	BRIDGETON BOREHOLE 0	39003.87598	
722144.961	4294233.4	4460	12-Jul-15	BRIDGETON BOREHOLE 0	39004.75098	
722144.717	4294233.653	4488	12-Jul-15	BRIDGETON BOREHOLE 0	39006.03406	
722144.427	4294234.049	4392	12-Jul-15	BRIDGETON BOREHOLE 0	39006.85205	
722144.065	4294234.465	4068	12-Jul-15	BRIDGETON BOREHOLE 0	39007.84094	
722143.575	4294235.215	4005	12-Jul-15	BRIDGETON BOREHOLE 0	39009.09399	
722143.348	4294235.653	4285	12-Jul-15	BRIDGETON BOREHOLE 0	39009.84998	
722142.964	4294236.385	4180	12-Jul-15	BRIDGETON BOREHOLE 0	39010.98206	
722142.722	4294236.898	4466	12-Jul-15	BRIDGETON BOREHOLE 0	39011.78503	
722142.379	4294237.548	4537	12-Jul-15	BRIDGETON BOREHOLE 0	39013.03601	
722142.069	4294237.92	4037	12-Jul-15	BRIDGETON BOREHOLE 0	39013.79199	
722141.778	4294238.325	3898	12-Jul-15	BRIDGETON BOREHOLE 0	39014.82397	
722141.559	4294238.696	4248	12-Jul-15	BRIDGETON BOREHOLE 0	39015.72498	
722141.21	4294239.143	4443	12-Jul-15	BRIDGETON BOREHOLE 0	39016.849	
722140.871	4294239.409	4479	12-Jul-15	BRIDGETON BOREHOLE 0	39017.849	
722140.629	4294239.596	4612	12-Jul-15	BRIDGETON BOREHOLE 0	39018.80298	
722140.302	4294239.848	4357	12-Jul-15	BRIDGETON BOREHOLE 0	39020.00098	
722140.071	4294240.003	4198	12-Jul-15	BRIDGETON BOREHOLE 0	39020.82202	
722139.715	4294240.29	4446	12-Jul-15	BRIDGETON BOREHOLE 0	39021.724	
722139.384	4294240.705	4998	12-Jul-15	BRIDGETON BOREHOLE 0	39022.73706	
722139.149	4294240.936	4709	12-Jul-15	BRIDGETON BOREHOLE 0	39023.86304	
722138.908	4294241.393	4059	12-Jul-15	BRIDGETON BOREHOLE 0	39024.87	
722138.572	4294241.575	4120	12-Jul-15	BRIDGETON BOREHOLE 0	39026.073	
722138.249	4294241.942	4095	12-Jul-15	BRIDGETON BOREHOLE 0	39027.05701	
722137.996	4294242.196	4898	12-Jul-15	BRIDGETON BOREHOLE 0	39027.81799	
722137.67	4294242.379	5080	12-Jul-15	BRIDGETON BOREHOLE 0	39029.09302	
722137.444	4294242.595	4177	12-Jul-15	BRIDGETON BOREHOLE 0	39029.79504	
722137.051	4294242.967	3962	12-Jul-15	BRIDGETON BOREHOLE 0	39030.88403	
722136.794	4294243.238	4165	12-Jul-15	BRIDGETON BOREHOLE 0	39031.64294	
722136.328	4294243.72	4090	12-Jul-15	BRIDGETON BOREHOLE 0	39032.88	
722136.113	4294243.948	3871	12-Jul-15	BRIDGETON BOREHOLE 0	39033.72803	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722135.811	4294244.243	4204	12-Jul-15	BRIDGETON BOREHOLE 0	39034.85901	
722135.546	4294244.55	4855	12-Jul-15	BRIDGETON BOREHOLE 0	39035.77197	
722135.138	4294244.92	4441	12-Jul-15	BRIDGETON BOREHOLE 0	39036.87305	
722134.914	4294245.156	4515	12-Jul-15	BRIDGETON BOREHOLE 0	39037.87	
722134.645	4294245.462	4497	12-Jul-15	BRIDGETON BOREHOLE 0	39039.06995	
722134.448	4294245.629	4097	12-Jul-15	BRIDGETON BOREHOLE 0	39039.86206	
722134.138	4294245.817	4172	12-Jul-15	BRIDGETON BOREHOLE 0	39041.03003	
722134.007	4294245.951	4762	12-Jul-15	BRIDGETON BOREHOLE 0	39041.63696	
722133.688	4294246.492	4426	12-Jul-15	BRIDGETON BOREHOLE 0	39042.92603	
722133.343	4294246.951	4349	12-Jul-15	BRIDGETON BOREHOLE 0	39044.01099	
722133.093	4294247.227	4321	12-Jul-15	BRIDGETON BOREHOLE 0	39045.10596	
722132.772	4294247.444	4118	12-Jul-15	BRIDGETON BOREHOLE 0	39045.90503	
722132.511	4294247.648	4109	12-Jul-15	BRIDGETON BOREHOLE 0	39047.04004	
722132.325	4294247.69	4096	12-Jul-15	BRIDGETON BOREHOLE 0	39047.84595	
722132.224	4294247.942	3984	12-Jul-15	BRIDGETON BOREHOLE 0	39049.09802	
722132.216	4294247.886	4020	12-Jul-15	BRIDGETON BOREHOLE 0	39049.875	
722132.325	4294247.692	3912	12-Jul-15	BRIDGETON BOREHOLE 0	39050.84705	
722132.665	4294247.846	3933	12-Jul-15	BRIDGETON BOREHOLE 0	39051.91394	
722133.136	4294248.233	3988	12-Jul-15	BRIDGETON BOREHOLE 0	39053.03601	
722133.317	4294248.406	3962	12-Jul-15	BRIDGETON BOREHOLE 0	39053.79895	
722133.384	4294248.38	4591	12-Jul-15	BRIDGETON BOREHOLE 0	39054.91199	
722133.46	4294248.052	4375	12-Jul-15	BRIDGETON BOREHOLE 0	39055.85803	
722133.391	4294247.722	4636	12-Jul-15	BRIDGETON BOREHOLE 0	39056.85596	
722133.449	4294247.404	4077	12-Jul-15	BRIDGETON BOREHOLE 0	39057.71204	
722133.668	4294247.047	4258	12-Jul-15	BRIDGETON BOREHOLE 0	39058.71497	
722134.038	4294246.617	4151	12-Jul-15	BRIDGETON BOREHOLE 0	39060.03699	
722134.293	4294246.283	4218	12-Jul-15	BRIDGETON BOREHOLE 0	39061.11902	
722134.469	4294246.13	4022	12-Jul-15	BRIDGETON BOREHOLE 0	39061.875	
722135.056	4294245.681	3874	12-Jul-15	BRIDGETON BOREHOLE 0	39063.04004	
722135.353	4294245.427	4266	12-Jul-15	BRIDGETON BOREHOLE 0	39063.84595	
722135.702	4294245.053	4026	12-Jul-15	BRIDGETON BOREHOLE 0	39064.802	
722136.015	4294244.632	4005	12-Jul-15	BRIDGETON BOREHOLE 0	39065.84497	
722136.32	4294244.297	4018	12-Jul-15	BRIDGETON BOREHOLE 0	39066.75098	
722136.636	4294243.858	3817	12-Jul-15	BRIDGETON BOREHOLE 0	39068.00195	
722137.049	4294243.348	3990	12-Jul-15	BRIDGETON BOREHOLE 0	39069.08606	
722137.208	4294243.125	4027	12-Jul-15	BRIDGETON BOREHOLE 0	39069.84094	
722137.431	4294242.848	3642	12-Jul-15	BRIDGETON BOREHOLE 0	39070.94299	
722137.437	4294242.668	3526	12-Jul-15	BRIDGETON BOREHOLE 0	39071.79395	
722137.605	4294242.371	3452	12-Jul-15	BRIDGETON BOREHOLE 0	39073.08899	
722137.866	4294242.061	3517	12-Jul-15	BRIDGETON BOREHOLE 0	39073.84302	
722138.327	4294241.755	3726	12-Jul-15	BRIDGETON BOREHOLE 0	39074.94495	
722138.597	4294241.478	3720	12-Jul-15	BRIDGETON BOREHOLE 0	39075.83997	
722138.887	4294241.107	4177	12-Jul-15	BRIDGETON BOREHOLE 0	39077.03601	
722139.171	4294240.784	4277	12-Jul-15	BRIDGETON BOREHOLE 0	39077.83301	
722139.187	4294240.575	4881	12-Jul-15	BRIDGETON BOREHOLE 0	39078.88	
722139.552	4294240.285	4928	12-Jul-15	BRIDGETON BOREHOLE 0	39079.979	
722139.743	4294239.919	4602	12-Jul-15	BRIDGETON BOREHOLE 0	39081.10999	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722140.087	4294239.707	4441	12-Jul-15	BRIDGETON BOREHOLE 0	39081.88098	
722140.481	4294239.221	4140	12-Jul-15	BRIDGETON BOREHOLE 0	39083.03796	
722140.708	4294239.03	4046	12-Jul-15	BRIDGETON BOREHOLE 0	39083.79797	
722140.941	4294238.623	4143	12-Jul-15	BRIDGETON BOREHOLE 0	39084.84705	
722141.274	4294238.301	4228	12-Jul-15	BRIDGETON BOREHOLE 0	39085.92395	
722141.57	4294237.968	3947	12-Jul-15	BRIDGETON BOREHOLE 0	39086.90503	
722141.76	4294237.836	4224	12-Jul-15	BRIDGETON BOREHOLE 0	39087.89099	
722142.133	4294237.531	4319	12-Jul-15	BRIDGETON BOREHOLE 0	39089.00598	
722142.361	4294237.378	3889	12-Jul-15	BRIDGETON BOREHOLE 0	39089.62402	
722142.817	4294236.991	4515	12-Jul-15	BRIDGETON BOREHOLE 0	39090.83997	
722143.085	4294236.738	5120	12-Jul-15	BRIDGETON BOREHOLE 0	39091.95898	
722143.273	4294236.494	4410	12-Jul-15	BRIDGETON BOREHOLE 0	39092.79199	
722143.555	4294236.23	4340	12-Jul-15	BRIDGETON BOREHOLE 0	39093.70496	
722143.994	4294235.836	4181	12-Jul-15	BRIDGETON BOREHOLE 0	39094.86694	
722144.285	4294235.438	3973	12-Jul-15	BRIDGETON BOREHOLE 0	39095.89099	
722144.529	4294235.073	3989	12-Jul-15	BRIDGETON BOREHOLE 0	39097.09399	
722144.798	4294234.759	4057	12-Jul-15	BRIDGETON BOREHOLE 0	39097.85999	
722145.283	4294234.612	3995	12-Jul-15	BRIDGETON BOREHOLE 0	39098.70996	
722145.613	4294234.345	4012	12-Jul-15	BRIDGETON BOREHOLE 0	39099.87805	
722145.962	4294233.977	4472	12-Jul-15	BRIDGETON BOREHOLE 0	39101.09998	
722146.312	4294233.654	4631	12-Jul-15	BRIDGETON BOREHOLE 0	39101.88403	
722146.632	4294233.33	4157	12-Jul-15	BRIDGETON BOREHOLE 0	39102.84302	
722146.976	4294232.918	4453	12-Jul-15	BRIDGETON BOREHOLE 0	39103.76697	
722147.442	4294232.583	4237	12-Jul-15	BRIDGETON BOREHOLE 0	39104.84802	
722147.826	4294232.248	4221	12-Jul-15	BRIDGETON BOREHOLE 0	39105.72498	
722148.321	4294231.978	4271	12-Jul-15	BRIDGETON BOREHOLE 0	39106.84998	
722148.562	4294232.031	4270	12-Jul-15	BRIDGETON BOREHOLE 0	39107.646	
722148.584	4294232.408	4157	12-Jul-15	BRIDGETON BOREHOLE 0	39109.04602	
722148.274	4294232.762	4108	12-Jul-15	BRIDGETON BOREHOLE 0	39109.62	
722148.05	4294233.529	4575	12-Jul-15	BRIDGETON BOREHOLE 0	39110.80603	
722147.872	4294234.059	5041	12-Jul-15	BRIDGETON BOREHOLE 0	39111.66101	
722147.604	4294234.598	5370	12-Jul-15	BRIDGETON BOREHOLE 0	39112.60303	
722147.18	4294235.067	4836	12-Jul-15	BRIDGETON BOREHOLE 0	39113.68604	
722146.803	4294235.368	4272	12-Jul-15	BRIDGETON BOREHOLE 0	39114.79602	
722146.477	4294235.639	4458	12-Jul-15	BRIDGETON BOREHOLE 0	39115.76501	
722146.117	4294235.995	3910	12-Jul-15	BRIDGETON BOREHOLE 0	39116.854	
722145.699	4294236.252	3929	12-Jul-15	BRIDGETON BOREHOLE 0	39117.87402	
722145.383	4294236.414	4085	12-Jul-15	BRIDGETON BOREHOLE 0	39119.05103	
722145.116	4294236.742	4218	12-Jul-15	BRIDGETON BOREHOLE 0	39119.89404	
722144.679	4294237.276	4450	12-Jul-15	BRIDGETON BOREHOLE 0	39121.052	
722144.467	4294237.509	4325	12-Jul-15	BRIDGETON BOREHOLE 0	39121.849	
722144.19	4294237.669	3993	12-Jul-15	BRIDGETON BOREHOLE 0	39123.08105	
722143.954	4294237.783	4263	12-Jul-15	BRIDGETON BOREHOLE 0	39124.04602	
722143.798	4294237.95	4014	12-Jul-15	BRIDGETON BOREHOLE 0	39124.83704	
722143.49	4294238.33	4653	12-Jul-15	BRIDGETON BOREHOLE 0	39126.09302	
722143.298	4294238.485	4350	12-Jul-15	BRIDGETON BOREHOLE 0	39126.83203	
722142.951	4294238.84	4247	12-Jul-15	BRIDGETON BOREHOLE 0	39128.00903	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722142.843	4294239.024	4564	12-Jul-15	BRIDGETON BOREHOLE 0	39128.84204	
722142.647	4294239.206	4134	12-Jul-15	BRIDGETON BOREHOLE 0	39130.04895	
722142.445	4294239.374	4418	12-Jul-15	BRIDGETON BOREHOLE 0	39130.80103	
722142.272	4294239.479	4390	12-Jul-15	BRIDGETON BOREHOLE 0	39131.66895	
722141.948	4294239.858	4202	12-Jul-15	BRIDGETON BOREHOLE 0	39132.86804	
722141.77	4294239.953	4583	12-Jul-15	BRIDGETON BOREHOLE 0	39133.59094	
722141.401	4294240.097	4153	12-Jul-15	BRIDGETON BOREHOLE 0	39134.76294	
722141.261	4294240.139	3755	12-Jul-15	BRIDGETON BOREHOLE 0	39135.69495	
722141.072	4294240.397	3825	12-Jul-15	BRIDGETON BOREHOLE 0	39137.005	
722140.929	4294240.631	3876	12-Jul-15	BRIDGETON BOREHOLE 0	39137.78406	
722140.838	4294240.916	3841	12-Jul-15	BRIDGETON BOREHOLE 0	39138.72205	
722140.516	4294241.435	4591	12-Jul-15	BRIDGETON BOREHOLE 0	39140.03406	
722140.344	4294241.757	4450	12-Jul-15	BRIDGETON BOREHOLE 0	39141.08704	
722140.115	4294241.926	4213	12-Jul-15	BRIDGETON BOREHOLE 0	39141.85095	
722139.777	4294242.066	4222	12-Jul-15	BRIDGETON BOREHOLE 0	39143.03699	
722139.587	4294242.235	4047	12-Jul-15	BRIDGETON BOREHOLE 0	39143.79395	
722139.283	4294242.383	4019	12-Jul-15	BRIDGETON BOREHOLE 0	39145.08704	
722139.211	4294242.358	4297	12-Jul-15	BRIDGETON BOREHOLE 0	39145.84302	
722139.214	4294242.475	4217	12-Jul-15	BRIDGETON BOREHOLE 0	39146.92505	
722139.173	4294242.565	4172	12-Jul-15	BRIDGETON BOREHOLE 0	39147.73206	
722139.062	4294242.592	4192	12-Jul-15	BRIDGETON BOREHOLE 0	39149.08496	
722138.836	4294242.693	4330	12-Jul-15	BRIDGETON BOREHOLE 0	39149.83997	
722138.573	4294242.876	4250	12-Jul-15	BRIDGETON BOREHOLE 0	39150.92004	
722138.31	4294243.15	4408	12-Jul-15	BRIDGETON BOREHOLE 0	39151.75305	
722137.944	4294243.373	4204	12-Jul-15	BRIDGETON BOREHOLE 0	39153.08398	
722137.842	4294243.735	4330	12-Jul-15	BRIDGETON BOREHOLE 0	39153.84302	
722137.618	4294243.974	4618	12-Jul-15	BRIDGETON BOREHOLE 0	39154.74695	
722137.348	4294244.162	4165	12-Jul-15	BRIDGETON BOREHOLE 0	39155.96497	
722137.066	4294244.236	4098	12-Jul-15	BRIDGETON BOREHOLE 0	39157.03601	
722136.808	4294244.37	4458	12-Jul-15	BRIDGETON BOREHOLE 0	39157.83997	
722136.531	4294244.679	4510	12-Jul-15	BRIDGETON BOREHOLE 0	39158.88403	
722136.292	4294244.772	4194	12-Jul-15	BRIDGETON BOREHOLE 0	39159.93994	
722136.008	4294245.039	4241	12-Jul-15	BRIDGETON BOREHOLE 0	39161.03699	
722135.739	4294245.189	4141	12-Jul-15	BRIDGETON BOREHOLE 0	39161.79895	
722135.455	4294245.393	3933	12-Jul-15	BRIDGETON BOREHOLE 0	39162.90002	
722135.246	4294245.661	4318	12-Jul-15	BRIDGETON BOREHOLE 0	39163.87805	
722135.091	4294245.975	3998	12-Jul-15	BRIDGETON BOREHOLE 0	39165.00305	
722134.947	4294246.15	3930	12-Jul-15	BRIDGETON BOREHOLE 0	39165.771	
722134.863	4294246.359	4156	12-Jul-15	BRIDGETON BOREHOLE 0	39166.84204	
722134.753	4294246.615	4662	12-Jul-15	BRIDGETON BOREHOLE 0	39167.75696	
722134.486	4294246.993	4385	12-Jul-15	BRIDGETON BOREHOLE 0	39168.96594	
722134.364	4294247.136	4429	12-Jul-15	BRIDGETON BOREHOLE 0	39169.70996	
722134.112	4294247.408	4176	12-Jul-15	BRIDGETON BOREHOLE 0	39170.75598	
722133.918	4294247.732	4186	12-Jul-15	BRIDGETON BOREHOLE 0	39171.84998	
722133.858	4294248.026	4035	12-Jul-15	BRIDGETON BOREHOLE 0	39172.94702	
722133.747	4294248.296	3872	12-Jul-15	BRIDGETON BOREHOLE 0	39173.76196	
722133.754	4294248.741	3922	12-Jul-15	BRIDGETON BOREHOLE 0	39174.81006	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722134.017	4294248.901	3933	12-Jul-15	BRIDGETON BOREHOLE 0	39176.00195	
722134.131	4294248.836	4453	12-Jul-15	BRIDGETON BOREHOLE 0	39176.80603	
722134.301	4294248.787	4387	12-Jul-15	BRIDGETON BOREHOLE 0	39177.85303	
722134.687	4294248.71	3862	12-Jul-15	BRIDGETON BOREHOLE 0	39178.875	
722135.065	4294248.384	4118	12-Jul-15	BRIDGETON BOREHOLE 0	39179.68298	
722135.725	4294247.807	4431	12-Jul-15	BRIDGETON BOREHOLE 0	39180.745	
722136.159	4294247.318	4398	12-Jul-15	BRIDGETON BOREHOLE 0	39181.97595	
722136.228	4294247.153	4896	12-Jul-15	BRIDGETON BOREHOLE 0	39182.73901	
722136.224	4294246.859	4809	12-Jul-15	BRIDGETON BOREHOLE 0	39183.90198	
722136.526	4294246.525	4512	12-Jul-15	BRIDGETON BOREHOLE 0	39184.953	
722136.662	4294246.171	4586	12-Jul-15	BRIDGETON BOREHOLE 0	39185.84302	
722136.865	4294245.879	4529	12-Jul-15	BRIDGETON BOREHOLE 0	39186.94604	
722136.924	4294245.556	4258	12-Jul-15	BRIDGETON BOREHOLE 0	39187.69604	
722137.212	4294245.21	4427	12-Jul-15	BRIDGETON BOREHOLE 0	39188.78198	
722137.493	4294244.832	4350	12-Jul-15	BRIDGETON BOREHOLE 0	39189.67395	
722137.662	4294244.578	4509	12-Jul-15	BRIDGETON BOREHOLE 0	39190.68994	
722138.102	4294243.845	4156	12-Jul-15	BRIDGETON BOREHOLE 0	39191.94104	
722138.229	4294243.565	4520	12-Jul-15	BRIDGETON BOREHOLE 0	39193.073	
722138.314	4294243.473	4822	12-Jul-15	BRIDGETON BOREHOLE 0	39193.77197	
722138.46	4294243.343	4902	12-Jul-15	BRIDGETON BOREHOLE 0	39195.00403	
722138.79	4294243.33	4820	12-Jul-15	BRIDGETON BOREHOLE 0	39195.85498	
722139.208	4294243.107	4511	12-Jul-15	BRIDGETON BOREHOLE 0	39197.08801	
722139.288	4294242.97	4592	12-Jul-15	BRIDGETON BOREHOLE 0	39197.84302	
722139.367	4294242.573	5066	12-Jul-15	BRIDGETON BOREHOLE 0	39198.99902	
722139.498	4294242.345	4642	12-Jul-15	BRIDGETON BOREHOLE 0	39199.76099	
722139.559	4294242.009	4073	12-Jul-15	BRIDGETON BOREHOLE 0	39200.88501	
722139.729	4294241.631	4098	12-Jul-15	BRIDGETON BOREHOLE 0	39201.78003	
722139.977	4294241.176	3775	12-Jul-15	BRIDGETON BOREHOLE 0	39202.755	
722140.12	4294240.893	3985	12-Jul-15	BRIDGETON BOREHOLE 0	39203.896	
722140.369	4294240.61	3990	12-Jul-15	BRIDGETON BOREHOLE 0	39204.77502	
722140.65	4294240.355	4069	12-Jul-15	BRIDGETON BOREHOLE 0	39205.66504	
722141.11	4294239.913	4186	12-Jul-15	BRIDGETON BOREHOLE 0	39207.08606	
722141.248	4294239.717	3907	12-Jul-15	BRIDGETON BOREHOLE 0	39207.84204	
722141.569	4294239.36	4152	12-Jul-15	BRIDGETON BOREHOLE 0	39208.75098	
722141.735	4294239.038	4233	12-Jul-15	BRIDGETON BOREHOLE 0	39209.94604	
722141.965	4294238.871	4331	12-Jul-15	BRIDGETON BOREHOLE 0	39210.89197	
722142.213	4294238.611	4641	12-Jul-15	BRIDGETON BOREHOLE 0	39211.70496	
722142.624	4294238.337	4890	12-Jul-15	BRIDGETON BOREHOLE 0	39212.88904	
722142.798	4294238.003	4416	12-Jul-15	BRIDGETON BOREHOLE 0	39213.75403	
722143.117	4294237.717	4516	12-Jul-15	BRIDGETON BOREHOLE 0	39214.849	
722143.531	4294237.665	4430	12-Jul-15	BRIDGETON BOREHOLE 0	39215.87903	
722143.564	4294237.694	4554	12-Jul-15	BRIDGETON BOREHOLE 0	39216.82996	
722143.596	4294237.437	4932	12-Jul-15	BRIDGETON BOREHOLE 0	39217.62598	
722143.73	4294236.911	4514	12-Jul-15	BRIDGETON BOREHOLE 0	39218.83203	
722143.995	4294236.779	4436	12-Jul-15	BRIDGETON BOREHOLE 0	39219.89099	
722144.293	4294236.543	4168	12-Jul-15	BRIDGETON BOREHOLE 0	39221.00195	
722144.64	4294236.436	4062	12-Jul-15	BRIDGETON BOREHOLE 0	39221.84302	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722145.046	4294236.08	4070	12-Jul-15	BRIDGETON BOREHOLE 0	39222.80505	
722145.379	4294235.736	3693	12-Jul-15	BRIDGETON BOREHOLE 0	39224.00305	
722145.733	4294235.395	3528	12-Jul-15	BRIDGETON BOREHOLE 0	39225.06201	
722146.088	4294235.158	3817	12-Jul-15	BRIDGETON BOREHOLE 0	39225.84094	
722146.472	4294234.717	3817	12-Jul-15	BRIDGETON BOREHOLE 0	39226.95398	
722146.615	4294234.52	3677	12-Jul-15	BRIDGETON BOREHOLE 0	39227.724	
722146.863	4294234.175	3870	12-Jul-15	BRIDGETON BOREHOLE 0	39228.84399	
722147.207	4294233.869	3769	12-Jul-15	BRIDGETON BOREHOLE 0	39229.85303	
722147.51	4294233.651	3867	12-Jul-15	BRIDGETON BOREHOLE 0	39230.68701	
722147.808	4294233.37	3909	12-Jul-15	BRIDGETON BOREHOLE 0	39231.54199	
722147.975	4294233.159	3868	12-Jul-15	BRIDGETON BOREHOLE 0	39232.75403	
722148.242	4294232.991	3962	12-Jul-15	BRIDGETON BOREHOLE 0	39233.71802	
722148.671	4294232.591	4201	12-Jul-15	BRIDGETON BOREHOLE 0	39234.87195	
722149.082	4294232.394	4005	12-Jul-15	BRIDGETON BOREHOLE 0	39235.72205	
722149.466	4294232.027	4003	12-Jul-15	BRIDGETON BOREHOLE 0	39236.849	
722149.823	4294231.794	4902	12-Jul-15	BRIDGETON BOREHOLE 0	39237.70996	
722150.381	4294231.282	4737	12-Jul-15	BRIDGETON BOREHOLE 0	39239.047	
722150.667	4294231.303	4682	12-Jul-15	BRIDGETON BOREHOLE 0	39239.89099	
722150.487	4294231.692	4268	12-Jul-15	BRIDGETON BOREHOLE 0	39241.00403	
722150.209	4294231.859	4021	12-Jul-15	BRIDGETON BOREHOLE 0	39241.76196	
722149.65	4294232.187	4009	12-Jul-15	BRIDGETON BOREHOLE 0	39242.729	
722149.176	4294232.559	4204	12-Jul-15	BRIDGETON BOREHOLE 0	39243.61902	
722148.627	4294232.914	4142	12-Jul-15	BRIDGETON BOREHOLE 0	39244.79004	
722148.211	4294233.082	4096	12-Jul-15	BRIDGETON BOREHOLE 0	39245.901	
722147.889	4294233.361	4606	12-Jul-15	BRIDGETON BOREHOLE 0	39246.77502	
722147.467	4294233.852	4541	12-Jul-15	BRIDGETON BOREHOLE 0	39247.61902	
722146.884	4294234.363	4316	12-Jul-15	BRIDGETON BOREHOLE 0	39248.745	
722146.507	4294234.895	4183	12-Jul-15	BRIDGETON BOREHOLE 0	39249.80701	
722146.249	4294235.031	4250	12-Jul-15	BRIDGETON BOREHOLE 0	39250.84595	
722146.121	4294235.051	4106	12-Jul-15	BRIDGETON BOREHOLE 0	39251.69202	
722145.627	4294235.242	3931	12-Jul-15	BRIDGETON BOREHOLE 0	39252.77795	
722145.227	4294235.755	4090	12-Jul-15	BRIDGETON BOREHOLE 0	39254.04102	
722144.976	4294236.126	4250	12-Jul-15	BRIDGETON BOREHOLE 0	39254.82397	
722144.869	4294236.483	4146	12-Jul-15	BRIDGETON BOREHOLE 0	39255.67505	
722144.633	4294236.751	4222	12-Jul-15	BRIDGETON BOREHOLE 0	39256.74597	
722144.384	4294237.228	4010	12-Jul-15	BRIDGETON BOREHOLE 0	39257.78503	
722144.148	4294237.457	3998	12-Jul-15	BRIDGETON BOREHOLE 0	39258.74695	
722143.987	4294237.609	3953	12-Jul-15	BRIDGETON BOREHOLE 0	39259.86096	
722143.647	4294237.668	4232	12-Jul-15	BRIDGETON BOREHOLE 0	39260.84399	
722143.362	4294237.973	4818	12-Jul-15	BRIDGETON BOREHOLE 0	39261.72998	
722143.116	4294238.321	4367	12-Jul-15	BRIDGETON BOREHOLE 0	39262.70801	
722142.752	4294238.603	4685	12-Jul-15	BRIDGETON BOREHOLE 0	39263.95398	
722142.569	4294238.842	4611	12-Jul-15	BRIDGETON BOREHOLE 0	39264.745	
722142.179	4294239.12	4318	12-Jul-15	BRIDGETON BOREHOLE 0	39266.005	
722142.01	4294239.379	4717	12-Jul-15	BRIDGETON BOREHOLE 0	39266.823	
722141.77	4294239.58	4453	12-Jul-15	BRIDGETON BOREHOLE 0	39267.86401	
722141.446	4294239.953	4740	12-Jul-15	BRIDGETON BOREHOLE 0	39269.05701	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722141.287	4294240.196	4601	12-Jul-15	BRIDGETON BOREHOLE 0	39269.802	
722141.066	4294240.629	4665	12-Jul-15	BRIDGETON BOREHOLE 0	39271.04297	
722141.018	4294240.994	4619	12-Jul-15	BRIDGETON BOREHOLE 0	39271.84705	
722140.826	4294241.191	4278	12-Jul-15	BRIDGETON BOREHOLE 0	39272.83398	
722140.727	4294241.517	4064	12-Jul-15	BRIDGETON BOREHOLE 0	39273.81604	
722140.297	4294241.644	4281	12-Jul-15	BRIDGETON BOREHOLE 0	39275.03003	
722140.128	4294241.925	4103	12-Jul-15	BRIDGETON BOREHOLE 0	39275.823	
722139.692	4294242.325	4063	12-Jul-15	BRIDGETON BOREHOLE 0	39277.05103	
722139.492	4294242.715	4280	12-Jul-15	BRIDGETON BOREHOLE 0	39277.81299	
722139.147	4294243.407	4162	12-Jul-15	BRIDGETON BOREHOLE 0	39279.02002	
722139.048	4294243.821	4261	12-Jul-15	BRIDGETON BOREHOLE 0	39279.74902	
722138.729	4294244.462	3807	12-Jul-15	BRIDGETON BOREHOLE 0	39281.15698	
722138.655	4294244.598	3850	12-Jul-15	BRIDGETON BOREHOLE 0	39281.74097	
722138.335	4294244.914	3864	12-Jul-15	BRIDGETON BOREHOLE 0	39282.85706	
722137.903	4294245.042	3945	12-Jul-15	BRIDGETON BOREHOLE 0	39283.88904	
722137.754	4294245.229	4109	12-Jul-15	BRIDGETON BOREHOLE 0	39284.75195	
722137.559	4294245.554	4344	12-Jul-15	BRIDGETON BOREHOLE 0	39285.58606	
722137.315	4294246.008	4326	12-Jul-15	BRIDGETON BOREHOLE 0	39286.74902	
722137.124	4294246.353	4248	12-Jul-15	BRIDGETON BOREHOLE 0	39287.69202	
722136.855	4294246.574	4144	12-Jul-15	BRIDGETON BOREHOLE 0	39288.77405	
722136.507	4294246.877	3960	12-Jul-15	BRIDGETON BOREHOLE 0	39289.70703	
722136.139	4294247.548	4020	12-Jul-15	BRIDGETON BOREHOLE 0	39291.01196	
722136.092	4294247.871	3693	12-Jul-15	BRIDGETON BOREHOLE 0	39291.64404	
722135.964	4294248.197	4008	12-Jul-15	BRIDGETON BOREHOLE 0	39292.66797	
722135.914	4294248.509	3847	12-Jul-15	BRIDGETON BOREHOLE 0	39293.78198	
722135.794	4294248.757	3891	12-Jul-15	BRIDGETON BOREHOLE 0	39294.896	
722135.676	4294248.934	4142	12-Jul-15	BRIDGETON BOREHOLE 0	39295.58899	
722135.378	4294249.491	4108	12-Jul-15	BRIDGETON BOREHOLE 0	39296.76794	
722134.91	4294250.004	4193	12-Jul-15	BRIDGETON BOREHOLE 0	39297.68005	
722134.656	4294249.832	4683	12-Jul-15	BRIDGETON BOREHOLE 0	39298.83105	
722135.129	4294249.619	4404	12-Jul-15	BRIDGETON BOREHOLE 0	39299.71594	
722135.562	4294249.577	4405	12-Jul-15	BRIDGETON BOREHOLE 0	39300.77002	
722135.802	4294249.426	3903	12-Jul-15	BRIDGETON BOREHOLE 0	39301.67102	
722136.161	4294249.246	3900	12-Jul-15	BRIDGETON BOREHOLE 0	39302.77795	
722136.231	4294248.787	3862	12-Jul-15	BRIDGETON BOREHOLE 0	39303.86401	
722136.355	4294248.611	3944	12-Jul-15	BRIDGETON BOREHOLE 0	39304.78796	
722136.532	4294248.251	4130	12-Jul-15	BRIDGETON BOREHOLE 0	39305.64294	
722136.725	4294247.698	4031	12-Jul-15	BRIDGETON BOREHOLE 0	39306.72095	
722136.89	4294247.119	3869	12-Jul-15	BRIDGETON BOREHOLE 0	39307.75098	
722137.044	4294246.61	3957	12-Jul-15	BRIDGETON BOREHOLE 0	39308.89502	
722137.177	4294246.326	3937	12-Jul-15	BRIDGETON BOREHOLE 0	39309.53101	
722137.416	4294245.863	3858	12-Jul-15	BRIDGETON BOREHOLE 0	39310.58899	
722137.755	4294245.361	3852	12-Jul-15	BRIDGETON BOREHOLE 0	39311.83801	
722137.971	4294244.964	3652	12-Jul-15	BRIDGETON BOREHOLE 0	39312.76196	
722138.204	4294244.587	3662	12-Jul-15	BRIDGETON BOREHOLE 0	39313.67505	
722138.488	4294244.037	3983	12-Jul-15	BRIDGETON BOREHOLE 0	39314.79199	
722138.619	4294243.714	4083	12-Jul-15	BRIDGETON BOREHOLE 0	39315.69702	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722138.806	4294243.346	3991	12-Jul-15	BRIDGETON BOREHOLE 0	39316.78601	
722139.177	4294243.018	3992	12-Jul-15	BRIDGETON BOREHOLE 0	39318.03699	
722139.347	4294242.738	4835	12-Jul-15	BRIDGETON BOREHOLE 0	39318.82104	
722139.486	4294242.487	4647	12-Jul-15	BRIDGETON BOREHOLE 0	39319.86499	
722139.675	4294242.106	4579	12-Jul-15	BRIDGETON BOREHOLE 0	39320.69897	
722139.728	4294241.805	4615	12-Jul-15	BRIDGETON BOREHOLE 0	39321.59302	
722139.83	4294241.487	4441	12-Jul-15	BRIDGETON BOREHOLE 0	39322.84595	
722140.085	4294241.185	4530	12-Jul-15	BRIDGETON BOREHOLE 0	39323.70605	
722140.299	4294241.059	4333	12-Jul-15	BRIDGETON BOREHOLE 0	39324.78003	
722140.696	4294240.649	4530	12-Jul-15	BRIDGETON BOREHOLE 0	39325.849	
722140.97	4294240.462	5218	12-Jul-15	BRIDGETON BOREHOLE 0	39326.56494	
722141.322	4294239.94	5125	12-Jul-15	BRIDGETON BOREHOLE 0	39327.86694	
722141.358	4294239.727	4750	12-Jul-15	BRIDGETON BOREHOLE 0	39328.95203	
722141.612	4294239.508	4682	12-Jul-15	BRIDGETON BOREHOLE 0	39329.69299	
722141.94	4294239.175	5033	12-Jul-15	BRIDGETON BOREHOLE 0	39330.88501	
722142.126	4294239.126	4466	12-Jul-15	BRIDGETON BOREHOLE 0	39331.89697	
722142.467	4294238.92	4425	12-Jul-15	BRIDGETON BOREHOLE 0	39332.77905	
722142.757	4294238.566	4304	12-Jul-15	BRIDGETON BOREHOLE 0	39333.646	
722143.06	4294238.135	4453	12-Jul-15	BRIDGETON BOREHOLE 0	39334.77197	
722143.593	4294237.741	5047	12-Jul-15	BRIDGETON BOREHOLE 0	39335.91003	
722143.844	4294237.511	4894	12-Jul-15	BRIDGETON BOREHOLE 0	39336.90295	
722144.018	4294237.488	4425	12-Jul-15	BRIDGETON BOREHOLE 0	39337.67297	
722144.154	4294237.413	4184	12-Jul-15	BRIDGETON BOREHOLE 0	39338.76904	
722144.472	4294237.295	3825	12-Jul-15	BRIDGETON BOREHOLE 0	39339.84705	
722144.687	4294237.203	4196	12-Jul-15	BRIDGETON BOREHOLE 0	39340.69202	
722144.905	4294237.115	4078	12-Jul-15	BRIDGETON BOREHOLE 0	39341.59302	
722145.122	4294236.819	3883	12-Jul-15	BRIDGETON BOREHOLE 0	39342.71204	
722145.497	4294236.615	4002	12-Jul-15	BRIDGETON BOREHOLE 0	39343.79504	
722145.982	4294236.065	4146	12-Jul-15	BRIDGETON BOREHOLE 0	39345.00598	
722146.319	4294235.774	4214	12-Jul-15	BRIDGETON BOREHOLE 0	39345.79797	
722146.688	4294235.296	4403	12-Jul-15	BRIDGETON BOREHOLE 0	39346.85803	
722147.105	4294235.038	4614	12-Jul-15	BRIDGETON BOREHOLE 0	39347.90503	
722147.616	4294234.707	4305	12-Jul-15	BRIDGETON BOREHOLE 0	39348.73804	
722148.176	4294234.265	4499	12-Jul-15	BRIDGETON BOREHOLE 0	39349.78894	
722148.576	4294233.93	4218	12-Jul-15	BRIDGETON BOREHOLE 0	39350.85303	
722148.748	4294233.804	4263	12-Jul-15	BRIDGETON BOREHOLE 0	39351.63696	
722148.996	4294233.389	4370	12-Jul-15	BRIDGETON BOREHOLE 0	39352.86804	
722149.285	4294233.306	4048	12-Jul-15	BRIDGETON BOREHOLE 0	39353.729	
722149.698	4294233.227	4324	12-Jul-15	BRIDGETON BOREHOLE 0	39354.61206	
722150.147	4294233.119	4547	12-Jul-15	BRIDGETON BOREHOLE 0	39355.71301	
722150.439	4294232.935	4433	12-Jul-15	BRIDGETON BOREHOLE 0	39356.81604	
722150.92	4294232.902	4241	12-Jul-15	BRIDGETON BOREHOLE 0	39357.76904	
722150.609	4294233.335	4328	12-Jul-15	BRIDGETON BOREHOLE 0	39358.849	
722150.038	4294233.765	4579	12-Jul-15	BRIDGETON BOREHOLE 0	39359.70703	
722149.893	4294234.386	4751	12-Jul-15	BRIDGETON BOREHOLE 0	39360.78601	
722149.67	4294234.613	4637	12-Jul-15	BRIDGETON BOREHOLE 0	39361.87805	
722149.375	4294235.062	4746	12-Jul-15	BRIDGETON BOREHOLE 0	39362.92395	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722149.068	4294235.206	4792	12-Jul-15	BRIDGETON BOREHOLE 0	39363.59204	
722148.578	4294235.436	4473	12-Jul-15	BRIDGETON BOREHOLE 0	39364.82104	
722148.239	4294235.543	4563	12-Jul-15	BRIDGETON BOREHOLE 0	39365.66003	
722147.826	4294235.803	4727	12-Jul-15	BRIDGETON BOREHOLE 0	39366.69202	
722147.534	4294235.929	4421	12-Jul-15	BRIDGETON BOREHOLE 0	39367.86304	
722147.293	4294235.82	4369	12-Jul-15	BRIDGETON BOREHOLE 0	39368.953	
722147.129	4294236.032	4115	12-Jul-15	BRIDGETON BOREHOLE 0	39369.74304	
722146.864	4294236.235	4249	12-Jul-15	BRIDGETON BOREHOLE 0	39370.90002	
722146.687	4294236.447	4243	12-Jul-15	BRIDGETON BOREHOLE 0	39371.73901	
722146.411	4294236.437	4066	12-Jul-15	BRIDGETON BOREHOLE 0	39372.93298	
722146.194	4294236.459	4237	12-Jul-15	BRIDGETON BOREHOLE 0	39373.77295	
722145.909	4294236.562	3913	12-Jul-15	BRIDGETON BOREHOLE 0	39374.59399	
722145.511	4294236.843	4227	12-Jul-15	BRIDGETON BOREHOLE 0	39375.71802	
722145.256	4294237.039	4590	12-Jul-15	BRIDGETON BOREHOLE 0	39376.849	
722145.006	4294237.128	4824	12-Jul-15	BRIDGETON BOREHOLE 0	39377.76599	
722144.669	4294237.479	4701	12-Jul-15	BRIDGETON BOREHOLE 0	39378.84399	
722144.47	4294237.747	4789	12-Jul-15	BRIDGETON BOREHOLE 0	39379.69104	
722144.218	4294238.006	4689	12-Jul-15	BRIDGETON BOREHOLE 0	39380.901	
722143.921	4294238.1	4497	12-Jul-15	BRIDGETON BOREHOLE 0	39381.75098	
722143.625	4294238.374	4352	12-Jul-15	BRIDGETON BOREHOLE 0	39382.76001	
722143.432	4294238.716	4150	12-Jul-15	BRIDGETON BOREHOLE 0	39383.65198	
722143.231	4294239.113	4284	12-Jul-15	BRIDGETON BOREHOLE 0	39384.74805	
722143.075	4294239.45	4750	12-Jul-15	BRIDGETON BOREHOLE 0	39385.64697	
722142.814	4294239.797	5072	12-Jul-15	BRIDGETON BOREHOLE 0	39386.75098	
722142.652	4294240.1	4810	12-Jul-15	BRIDGETON BOREHOLE 0	39387.73596	
722142.519	4294240.411	4596	12-Jul-15	BRIDGETON BOREHOLE 0	39388.75	
722142.417	4294240.661	4212	12-Jul-15	BRIDGETON BOREHOLE 0	39389.68994	
722142.045	4294241.012	4942	12-Jul-15	BRIDGETON BOREHOLE 0	39390.81201	
722141.768	4294241.294	4572	12-Jul-15	BRIDGETON BOREHOLE 0	39391.63794	
722141.461	4294241.657	4604	12-Jul-15	BRIDGETON BOREHOLE 0	39392.83997	
722141.15	4294242.004	4450	12-Jul-15	BRIDGETON BOREHOLE 0	39393.64404	
722140.797	4294242.682	4280	12-Jul-15	BRIDGETON BOREHOLE 0	39394.91101	
722140.574	4294243.043	3997	12-Jul-15	BRIDGETON BOREHOLE 0	39395.66003	
722140.257	4294243.566	3736	12-Jul-15	BRIDGETON BOREHOLE 0	39396.61499	
722139.842	4294244.148	4228	12-Jul-15	BRIDGETON BOREHOLE 0	39397.84998	
722139.491	4294244.505	4350	12-Jul-15	BRIDGETON BOREHOLE 0	39399.03894	
722139.216	4294244.723	4119	12-Jul-15	BRIDGETON BOREHOLE 0	39399.81702	
722139.041	4294245.043	4267	12-Jul-15	BRIDGETON BOREHOLE 0	39400.90601	
722139	4294245.147	4137	12-Jul-15	BRIDGETON BOREHOLE 0	39401.59094	
722139.091	4294245.773	4112	12-Jul-15	BRIDGETON BOREHOLE 0	39403.03699	
722138.885	4294245.903	4053	12-Jul-15	BRIDGETON BOREHOLE 0	39403.82397	
722138.706	4294246.217	4192	12-Jul-15	BRIDGETON BOREHOLE 0	39404.86902	
722138.472	4294246.514	4413	12-Jul-15	BRIDGETON BOREHOLE 0	39405.49597	
722138	4294247.25	4185	12-Jul-15	BRIDGETON BOREHOLE 0	39407.00403	
722137.687	4294248.088	4701	12-Jul-15	BRIDGETON BOREHOLE 0	39407.76099	
722137.41	4294248.723	4759	12-Jul-15	BRIDGETON BOREHOLE 0	39408.58801	
722137.007	4294249.314	4432	12-Jul-15	BRIDGETON BOREHOLE 0	39409.69604	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722136.974	4294249.428	4555	12-Jul-15	BRIDGETON BOREHOLE 0	39410.76904	
722137.061	4294249.038	4475	12-Jul-15	BRIDGETON BOREHOLE 0	39411.68799	
722137.085	4294249.02	4384	12-Jul-15	BRIDGETON BOREHOLE 0	39413.00305	
722136.916	4294249.251	4401	12-Jul-15	BRIDGETON BOREHOLE 0	39413.81201	
722136.737	4294249.706	4575	12-Jul-15	BRIDGETON BOREHOLE 0	39414.72998	
722136.771	4294250.125	4126	12-Jul-15	BRIDGETON BOREHOLE 0	39415.59705	
722137.362	4294250.639	4239	12-Jul-15	BRIDGETON BOREHOLE 0	39417.10095	
722137.772	4294250.578	4447	12-Jul-15	BRIDGETON BOREHOLE 0	39417.95105	
722138.154	4294250.347	4391	12-Jul-15	BRIDGETON BOREHOLE 0	39418.94604	
722138.322	4294250.267	4660	12-Jul-15	BRIDGETON BOREHOLE 0	39419.58801	
722138.58	4294250.566	4541	12-Jul-15	BRIDGETON BOREHOLE 0	39420.66602	
722139.011	4294250.886	4947	12-Jul-15	BRIDGETON BOREHOLE 0	39421.854	
722139.394	4294250.603	4755	12-Jul-15	BRIDGETON BOREHOLE 0	39422.85999	
722139.129	4294250.355	4752	12-Jul-15	BRIDGETON BOREHOLE 0	39423.58899	
722138.183	4294250.182	4780	12-Jul-15	BRIDGETON BOREHOLE 0	39425.03601	
722137.761	4294250.138	4931	12-Jul-15	BRIDGETON BOREHOLE 0	39425.80701	
722137.346	4294249.971	5196	12-Jul-15	BRIDGETON BOREHOLE 0	39426.72302	
722137.013	4294249.833	4910	12-Jul-15	BRIDGETON BOREHOLE 0	39427.65405	
722136.835	4294249.617	4262	12-Jul-15	BRIDGETON BOREHOLE 0	39428.67004	
722136.997	4294249.342	4100	12-Jul-15	BRIDGETON BOREHOLE 0	39429.76794	
722137.292	4294249.351	4241	12-Jul-15	BRIDGETON BOREHOLE 0	39430.86096	
722137.45	4294249.376	4140	12-Jul-15	BRIDGETON BOREHOLE 0	39431.68799	
722137.798	4294249.486	4721	12-Jul-15	BRIDGETON BOREHOLE 0	39432.84302	
722138.029	4294249.59	3938	12-Jul-15	BRIDGETON BOREHOLE 0	39433.71802	
722138.622	4294249.804	4095	12-Jul-15	BRIDGETON BOREHOLE 0	39434.84998	
722139.094	4294249.673	4395	12-Jul-15	BRIDGETON BOREHOLE 0	39435.69995	
722139.34	4294249.486	4505	12-Jul-15	BRIDGETON BOREHOLE 0	39436.60706	
722139.144	4294249.348	4754	12-Jul-15	BRIDGETON BOREHOLE 0	39437.72705	
722138.644	4294249.232	4496	12-Jul-15	BRIDGETON BOREHOLE 0	39438.85303	
722138.352	4294249.115	4127	12-Jul-15	BRIDGETON BOREHOLE 0	39439.74194	
722137.967	4294248.92	4368	12-Jul-15	BRIDGETON BOREHOLE 0	39440.95203	
722137.832	4294248.802	4220	12-Jul-15	BRIDGETON BOREHOLE 0	39441.82605	
722137.582	4294248.584	3917	12-Jul-15	BRIDGETON BOREHOLE 0	39442.85095	
722137.238	4294248.422	4248	12-Jul-15	BRIDGETON BOREHOLE 0	39443.672	
722136.757	4294248.288	4662	12-Jul-15	BRIDGETON BOREHOLE 0	39444.703	
722136.397	4294248.148	4535	12-Jul-15	BRIDGETON BOREHOLE 0	39445.474	
722135.897	4294247.866	4853	12-Jul-15	BRIDGETON BOREHOLE 0	39446.60205	
722135.399	4294247.593	5377	12-Jul-15	BRIDGETON BOREHOLE 0	39447.69397	
722135.003	4294247.366	4832	12-Jul-15	BRIDGETON BOREHOLE 0	39448.85303	
722134.396	4294246.865	4150	12-Jul-15	BRIDGETON BOREHOLE 0	39449.75	
722133.705	4294246.3	4254	12-Jul-15	BRIDGETON BOREHOLE 0	39450.85498	
722133.447	4294246.002	4545	12-Jul-15	BRIDGETON BOREHOLE 0	39451.74304	
722133.201	4294245.574	4169	12-Jul-15	BRIDGETON BOREHOLE 0	39452.84802	
722133.16	4294245.22	3972	12-Jul-15	BRIDGETON BOREHOLE 0	39453.86902	
722133.066	4294245.233	4027	12-Jul-15	BRIDGETON BOREHOLE 0	39454.72998	
722133.16	4294245.17	4137	12-Jul-15	BRIDGETON BOREHOLE 0	39455.76904	
722133.618	4294245.125	4479	12-Jul-15	BRIDGETON BOREHOLE 0	39456.90698	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722133.905	4294245.212	4537	12-Jul-15	BRIDGETON BOREHOLE 0	39457.59399	
722134.419	4294245.417	4779	12-Jul-15	BRIDGETON BOREHOLE 0	39458.73999	
722134.673	4294245.567	4788	12-Jul-15	BRIDGETON BOREHOLE 0	39459.50696	
722134.994	4294245.766	4291	12-Jul-15	BRIDGETON BOREHOLE 0	39460.68201	
722135.301	4294246.042	4116	12-Jul-15	BRIDGETON BOREHOLE 0	39461.63794	
722135.833	4294246.463	4325	12-Jul-15	BRIDGETON BOREHOLE 0	39462.78003	
722136.195	4294246.561	3993	12-Jul-15	BRIDGETON BOREHOLE 0	39463.87	
722136.497	4294246.813	3929	12-Jul-15	BRIDGETON BOREHOLE 0	39464.901	
722136.889	4294247.047	3812	12-Jul-15	BRIDGETON BOREHOLE 0	39465.73303	
722137.401	4294247.441	3850	12-Jul-15	BRIDGETON BOREHOLE 0	39466.89099	
722137.694	4294247.699	4197	12-Jul-15	BRIDGETON BOREHOLE 0	39467.70801	
722138.189	4294248.102	4063	12-Jul-15	BRIDGETON BOREHOLE 0	39468.776	
722138.803	4294248.334	4393	12-Jul-15	BRIDGETON BOREHOLE 0	39469.71899	
722139.392	4294248.105	4346	12-Jul-15	BRIDGETON BOREHOLE 0	39470.75903	
722139.476	4294247.698	4664	12-Jul-15	BRIDGETON BOREHOLE 0	39471.68005	
722139.103	4294247.191	4499	12-Jul-15	BRIDGETON BOREHOLE 0	39472.87	
722138.628	4294246.997	4233	12-Jul-15	BRIDGETON BOREHOLE 0	39473.677	
722137.902	4294246.793	4091	12-Jul-15	BRIDGETON BOREHOLE 0	39474.74902	
722137.524	4294246.625	3996	12-Jul-15	BRIDGETON BOREHOLE 0	39475.78003	
722137.097	4294246.267	4222	12-Jul-15	BRIDGETON BOREHOLE 0	39476.85999	
722136.833	4294246.066	4212	12-Jul-15	BRIDGETON BOREHOLE 0	39477.60095	
722136.33	4294245.761	4214	12-Jul-15	BRIDGETON BOREHOLE 0	39478.77197	
722135.725	4294245.531	4028	12-Jul-15	BRIDGETON BOREHOLE 0	39479.77295	
722135.342	4294245.358	3802	12-Jul-15	BRIDGETON BOREHOLE 0	39480.80603	
722135.162	4294245.193	4114	12-Jul-15	BRIDGETON BOREHOLE 0	39481.54797	
722134.869	4294244.837	4264	12-Jul-15	BRIDGETON BOREHOLE 0	39482.70203	
722134.605	4294244.541	4243	12-Jul-15	BRIDGETON BOREHOLE 0	39483.526	
722134.25	4294244.219	4247	12-Jul-15	BRIDGETON BOREHOLE 0	39484.71497	
722133.964	4294243.813	4271	12-Jul-15	BRIDGETON BOREHOLE 0	39485.78699	
722133.891	4294243.624	4315	12-Jul-15	BRIDGETON BOREHOLE 0	39486.93604	
722134.057	4294243.57	4257	12-Jul-15	BRIDGETON BOREHOLE 0	39487.56799	
722134.336	4294243.535	4434	12-Jul-15	BRIDGETON BOREHOLE 0	39488.55798	
722134.842	4294243.56	4257	12-Jul-15	BRIDGETON BOREHOLE 0	39489.70801	
722135.217	4294243.723	4554	12-Jul-15	BRIDGETON BOREHOLE 0	39490.55505	
722135.538	4294244.168	3851	12-Jul-15	BRIDGETON BOREHOLE 0	39491.69495	
722135.774	4294244.809	3798	12-Jul-15	BRIDGETON BOREHOLE 0	39492.82605	
722135.958	4294245.268	3997	12-Jul-15	BRIDGETON BOREHOLE 0	39493.703	
722136.294	4294245.76	4032	12-Jul-15	BRIDGETON BOREHOLE 0	39494.79504	
722136.527	4294246.182	4286	12-Jul-15	BRIDGETON BOREHOLE 0	39495.68005	
722136.716	4294246.48	4143	12-Jul-15	BRIDGETON BOREHOLE 0	39496.75098	
722136.944	4294246.697	3734	12-Jul-15	BRIDGETON BOREHOLE 0	39497.61206	
722137.17	4294246.91	3640	12-Jul-15	BRIDGETON BOREHOLE 0	39498.79004	
722137.404	4294247.198	3874	12-Jul-15	BRIDGETON BOREHOLE 0	39499.59399	
722137.865	4294247.63	4124	12-Jul-15	BRIDGETON BOREHOLE 0	39500.98303	
722137.968	4294247.914	4239	12-Jul-15	BRIDGETON BOREHOLE 0	39501.63794	
722138.277	4294248.189	4207	12-Jul-15	BRIDGETON BOREHOLE 0	39502.85303	
722138.569	4294248.409	3739	12-Jul-15	BRIDGETON BOREHOLE 0	39503.60596	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722138.849	4294248.638	4166	12-Jul-15	BRIDGETON BOREHOLE 0	39504.72205	
722139.139	4294248.854	4383	12-Jul-15	BRIDGETON BOREHOLE 0	39505.53003	
722139.704	4294249.119	4498	12-Jul-15	BRIDGETON BOREHOLE 0	39506.76404	
722139.725	4294248.474	4563	12-Jul-15	BRIDGETON BOREHOLE 0	39507.60095	
722139.599	4294247.531	4269	12-Jul-15	BRIDGETON BOREHOLE 0	39508.745	
722139.099	4294247.165	4606	12-Jul-15	BRIDGETON BOREHOLE 0	39509.724	
722139.108	4294247.287	4541	12-Jul-15	BRIDGETON BOREHOLE 0	39510.71399	
722139.411	4294247.444	3986	12-Jul-15	BRIDGETON BOREHOLE 0	39511.52795	
722139.832	4294247.602	4321	12-Jul-15	BRIDGETON BOREHOLE 0	39512.69202	
722140.095	4294247.531	4425	12-Jul-15	BRIDGETON BOREHOLE 0	39513.52698	
722140.153	4294246.954	4462	12-Jul-15	BRIDGETON BOREHOLE 0	39514.70605	
722139.596	4294246.525	4190	12-Jul-15	BRIDGETON BOREHOLE 0	39515.802	
722139.439	4294246.365	4118	12-Jul-15	BRIDGETON BOREHOLE 0	39516.75305	
722139.112	4294246.4	4334	12-Jul-15	BRIDGETON BOREHOLE 0	39517.73596	
722139.222	4294246.511	3908	12-Jul-15	BRIDGETON BOREHOLE 0	39518.73804	
722139.551	4294246.642	3753	12-Jul-15	BRIDGETON BOREHOLE 0	39519.60706	
722140.009	4294246.776	4116	12-Jul-15	BRIDGETON BOREHOLE 0	39520.72705	
722140.266	4294246.798	4190	12-Jul-15	BRIDGETON BOREHOLE 0	39521.43506	
722140.672	4294246.723	4502	12-Jul-15	BRIDGETON BOREHOLE 0	39522.70996	
722140.885	4294246.405	4250	12-Jul-15	BRIDGETON BOREHOLE 0	39523.56104	
722140.891	4294245.744	4438	12-Jul-15	BRIDGETON BOREHOLE 0	39524.75195	
722140.17	4294245.375	4206	12-Jul-15	BRIDGETON BOREHOLE 0	39525.82703	
722140.313	4294245.296	4263	12-Jul-15	BRIDGETON BOREHOLE 0	39526.90405	
722140.261	4294245.322	4250	12-Jul-15	BRIDGETON BOREHOLE 0	39527.59595	
722139.9	4294245.283	4281	12-Jul-15	BRIDGETON BOREHOLE 0	39528.71704	
722139.781	4294245.23	4290	12-Jul-15	BRIDGETON BOREHOLE 0	39529.48206	
722140.067	4294245.139	4558	12-Jul-15	BRIDGETON BOREHOLE 0	39530.78003	
722140.301	4294245.151	3906	12-Jul-15	BRIDGETON BOREHOLE 0	39531.47803	
722140.648	4294244.968	4271	12-Jul-15	BRIDGETON BOREHOLE 0	39532.745	
722140.812	4294244.829	3889	12-Jul-15	BRIDGETON BOREHOLE 0	39533.51099	
722141.089	4294244.73	3987	12-Jul-15	BRIDGETON BOREHOLE 0	39534.63696	
722141.46	4294244.682	3936	12-Jul-15	BRIDGETON BOREHOLE 0	39535.62598	
722141.549	4294244.43	4050	12-Jul-15	BRIDGETON BOREHOLE 0	39536.66797	
722141.133	4294244.07	4528	12-Jul-15	BRIDGETON BOREHOLE 0	39537.62305	
722140.238	4294243.99	4609	12-Jul-15	BRIDGETON BOREHOLE 0	39538.81299	
722139.852	4294244.148	4498	12-Jul-15	BRIDGETON BOREHOLE 0	39539.72803	
722139.417	4294244.072	4457	12-Jul-15	BRIDGETON BOREHOLE 0	39540.74805	
722139.087	4294243.981	4592	12-Jul-15	BRIDGETON BOREHOLE 0	39541.72595	
722138.959	4294243.822	4855	12-Jul-15	BRIDGETON BOREHOLE 0	39542.698	
722138.935	4294243.724	4876	12-Jul-15	BRIDGETON BOREHOLE 0	39543.65601	
722139.062	4294243.634	4490	12-Jul-15	BRIDGETON BOREHOLE 0	39544.59705	
722139.212	4294243.485	4205	12-Jul-15	BRIDGETON BOREHOLE 0	39545.69495	
722139.384	4294243.475	4013	12-Jul-15	BRIDGETON BOREHOLE 0	39546.91003	
722139.639	4294243.707	4293	12-Jul-15	BRIDGETON BOREHOLE 0	39547.80798	
722139.905	4294244.002	4267	12-Jul-15	BRIDGETON BOREHOLE 0	39548.86401	
722140.119	4294244.363	4200	12-Jul-15	BRIDGETON BOREHOLE 0	39549.776	
722140.292	4294244.766	4075	12-Jul-15	BRIDGETON BOREHOLE 0	39550.80298	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722140.671	4294245.328	4654	12-Jul-15	BRIDGETON BOREHOLE 0	39551.82202	
722140.977	4294245.522	4658	12-Jul-15	BRIDGETON BOREHOLE 0	39552.61902	
722141.209	4294245.493	4248	12-Jul-15	BRIDGETON BOREHOLE 0	39553.59302	
722141.424	4294245.223	4151	12-Jul-15	BRIDGETON BOREHOLE 0	39554.578	
722141.516	4294244.675	4008	12-Jul-15	BRIDGETON BOREHOLE 0	39555.52295	
722141.152	4294244.3	4380	12-Jul-15	BRIDGETON BOREHOLE 0	39556.96704	
722140.957	4294244.099	4368	12-Jul-15	BRIDGETON BOREHOLE 0	39557.78601	
722140.866	4294243.914	4227	12-Jul-15	BRIDGETON BOREHOLE 0	39558.85095	
722140.814	4294243.897	4485	12-Jul-15	BRIDGETON BOREHOLE 0	39559.57495	
722140.7	4294243.922	4893	12-Jul-15	BRIDGETON BOREHOLE 0	39560.67896	
722140.603	4294243.933	4935	12-Jul-15	BRIDGETON BOREHOLE 0	39561.53296	
722140.547	4294243.987	4485	12-Jul-15	BRIDGETON BOREHOLE 0	39562.84705	
722140.435	4294243.81	4068	12-Jul-15	BRIDGETON BOREHOLE 0	39563.86902	
722140.135	4294243.782	3957	12-Jul-15	BRIDGETON BOREHOLE 0	39564.75403	
722139.896	4294243.677	3958	12-Jul-15	BRIDGETON BOREHOLE 0	39565.58704	
722139.517	4294243.432	4042	12-Jul-15	BRIDGETON BOREHOLE 0	39566.65295	
722139.134	4294243.247	4156	12-Jul-15	BRIDGETON BOREHOLE 0	39567.70703	
722138.688	4294243.018	4355	12-Jul-15	BRIDGETON BOREHOLE 0	39568.69104	
722138.168	4294242.797	4159	12-Jul-15	BRIDGETON BOREHOLE 0	39569.78796	
722137.849	4294242.633	4320	12-Jul-15	BRIDGETON BOREHOLE 0	39570.70605	
722137.55	4294242.426	4830	12-Jul-15	BRIDGETON BOREHOLE 0	39571.59497	
722137.091	4294242.049	4269	12-Jul-15	BRIDGETON BOREHOLE 0	39572.69604	
722136.804	4294241.812	4306	12-Jul-15	BRIDGETON BOREHOLE 0	39573.58801	
722136.434	4294241.497	5025	12-Jul-15	BRIDGETON BOREHOLE 0	39574.849	
722136.13	4294241.126	5361	12-Jul-15	BRIDGETON BOREHOLE 0	39575.73499	
722135.969	4294240.762	5070	12-Jul-15	BRIDGETON BOREHOLE 0	39576.66101	
722136.165	4294240.701	5095	12-Jul-15	BRIDGETON BOREHOLE 0	39577.70703	
722136.462	4294240.884	4613	12-Jul-15	BRIDGETON BOREHOLE 0	39578.72595	
722136.518	4294240.983	4822	12-Jul-15	BRIDGETON BOREHOLE 0	39579.58997	
722136.797	4294241.223	4730	12-Jul-15	BRIDGETON BOREHOLE 0	39580.98499	
722137.078	4294241.605	4753	12-Jul-15	BRIDGETON BOREHOLE 0	39581.66797	
722137.466	4294242.297	4271	12-Jul-15	BRIDGETON BOREHOLE 0	39582.89197	
722137.616	4294242.623	4600	12-Jul-15	BRIDGETON BOREHOLE 0	39583.71594	
722137.692	4294242.943	4590	12-Jul-15	BRIDGETON BOREHOLE 0	39584.78101	
722137.794	4294243.117	4847	12-Jul-15	BRIDGETON BOREHOLE 0	39585.43005	
722138.009	4294243.418	4398	12-Jul-15	BRIDGETON BOREHOLE 0	39586.59094	
722138.274	4294243.758	4432	12-Jul-15	BRIDGETON BOREHOLE 0	39587.71802	
722138.56	4294244.066	4353	12-Jul-15	BRIDGETON BOREHOLE 0	39588.84705	
722138.779	4294244.222	4068	12-Jul-15	BRIDGETON BOREHOLE 0	39589.59497	
722138.974	4294244.464	4088	12-Jul-15	BRIDGETON BOREHOLE 0	39590.73206	
722139.086	4294244.753	4647	12-Jul-15	BRIDGETON BOREHOLE 0	39591.76001	
722139.247	4294245.029	4331	12-Jul-15	BRIDGETON BOREHOLE 0	39592.69604	
722139.485	4294245.412	4349	12-Jul-15	BRIDGETON BOREHOLE 0	39593.61206	
722139.773	4294245.803	4418	12-Jul-15	BRIDGETON BOREHOLE 0	39594.74402	
722140.069	4294246.015	5005	12-Jul-15	BRIDGETON BOREHOLE 0	39595.46106	
722140.675	4294246.037	4825	12-Jul-15	BRIDGETON BOREHOLE 0	39596.56604	
722141.022	4294245.532	4604	12-Jul-15	BRIDGETON BOREHOLE 0	39597.50696	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722141.206	4294244.867	4345	12-Jul-15	BRIDGETON BOREHOLE 0	39598.69897	
722141.252	4294244.57	4544	12-Jul-15	BRIDGETON BOREHOLE 0	39599.81104	
722141.177	4294244.418	4266	12-Jul-15	BRIDGETON BOREHOLE 0	39600.84595	
722140.893	4294244.065	4882	12-Jul-15	BRIDGETON BOREHOLE 0	39601.72498	
722140.494	4294243.686	4486	12-Jul-15	BRIDGETON BOREHOLE 0	39602.76196	
722140.219	4294243.331	4263	12-Jul-15	BRIDGETON BOREHOLE 0	39603.59302	
722139.793	4294242.973	4685	12-Jul-15	BRIDGETON BOREHOLE 0	39604.71899	
722139.426	4294242.645	4435	12-Jul-15	BRIDGETON BOREHOLE 0	39605.56995	
722138.977	4294242.18	4985	12-Jul-15	BRIDGETON BOREHOLE 0	39606.72803	
722138.741	4294241.906	4101	12-Jul-15	BRIDGETON BOREHOLE 0	39607.46802	
722138.318	4294241.495	4384	12-Jul-15	BRIDGETON BOREHOLE 0	39608.78503	
722138.003	4294241.183	4274	12-Jul-15	BRIDGETON BOREHOLE 0	39609.70398	
722137.62	4294240.927	4714	12-Jul-15	BRIDGETON BOREHOLE 0	39610.70105	
722137.403	4294240.747	4916	12-Jul-15	BRIDGETON BOREHOLE 0	39611.46997	
722137.134	4294240.366	4790	12-Jul-15	BRIDGETON BOREHOLE 0	39612.84705	
722137.109	4294240.138	5087	12-Jul-15	BRIDGETON BOREHOLE 0	39613.73706	
722137.454	4294240.193	5066	12-Jul-15	BRIDGETON BOREHOLE 0	39614.84497	
722137.654	4294240.292	5017	12-Jul-15	BRIDGETON BOREHOLE 0	39615.55505	
722137.944	4294240.508	4412	12-Jul-15	BRIDGETON BOREHOLE 0	39616.66797	
722138.201	4294240.702	4147	12-Jul-15	BRIDGETON BOREHOLE 0	39617.54297	
722138.511	4294241.038	4320	12-Jul-15	BRIDGETON BOREHOLE 0	39618.65503	
722138.721	4294241.365	4642	12-Jul-15	BRIDGETON BOREHOLE 0	39619.61499	
722138.936	4294241.86	4809	12-Jul-15	BRIDGETON BOREHOLE 0	39620.70203	
722139.165	4294242.273	4617	12-Jul-15	BRIDGETON BOREHOLE 0	39621.71802	
722139.481	4294242.645	4742	12-Jul-15	BRIDGETON BOREHOLE 0	39622.62903	
722139.736	4294242.954	4632	12-Jul-15	BRIDGETON BOREHOLE 0	39623.65601	
722139.856	4294243.209	4128	12-Jul-15	BRIDGETON BOREHOLE 0	39624.63098	
722139.976	4294243.725	4654	12-Jul-15	BRIDGETON BOREHOLE 0	39625.745	
722140.102	4294244.003	4358	12-Jul-15	BRIDGETON BOREHOLE 0	39626.646	
722140.493	4294244.59	4641	12-Jul-15	BRIDGETON BOREHOLE 0	39627.79395	
722140.901	4294244.895	4665	12-Jul-15	BRIDGETON BOREHOLE 0	39628.672	
722141.557	4294245.07	4829	12-Jul-15	BRIDGETON BOREHOLE 0	39629.68701	
722142.018	4294244.568	5289	12-Jul-15	BRIDGETON BOREHOLE 0	39630.745	
722142.049	4294243.767	4812	12-Jul-15	BRIDGETON BOREHOLE 0	39631.61206	
722142.07	4294243.223	4237	12-Jul-15	BRIDGETON BOREHOLE 0	39632.59302	
722142.497	4294242.947	4558	12-Jul-15	BRIDGETON BOREHOLE 0	39633.70203	
722142.233	4294242.566	4686	12-Jul-15	BRIDGETON BOREHOLE 0	39634.802	
722142.145	4294242.27	4848	12-Jul-15	BRIDGETON BOREHOLE 0	39635.64697	
722142.569	4294242.152	4812	12-Jul-15	BRIDGETON BOREHOLE 0	39636.76904	
722142.415	4294242.091	4822	12-Jul-15	BRIDGETON BOREHOLE 0	39637.49597	
722141.69	4294241.949	4677	12-Jul-15	BRIDGETON BOREHOLE 0	39638.69299	
722141.238	4294241.733	4918	12-Jul-15	BRIDGETON BOREHOLE 0	39639.71802	
722140.829	4294241.573	4401	12-Jul-15	BRIDGETON BOREHOLE 0	39640.87	
722140.538	4294241.502	4133	12-Jul-15	BRIDGETON BOREHOLE 0	39641.61401	
722140.115	4294241.36	3943	12-Jul-15	BRIDGETON BOREHOLE 0	39642.69995	
722139.746	4294241.264	4268	12-Jul-15	BRIDGETON BOREHOLE 0	39643.79004	
722139.478	4294241.107	4126	12-Jul-15	BRIDGETON BOREHOLE 0	39644.54602	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722139.189	4294240.964	4046	12-Jul-15	BRIDGETON BOREHOLE 0	39645.75598	
722138.975	4294240.866	4218	12-Jul-15	BRIDGETON BOREHOLE 0	39646.46594	
722138.59	4294240.707	4270	12-Jul-15	BRIDGETON BOREHOLE 0	39647.64905	
722138.345	4294240.674	4322	12-Jul-15	BRIDGETON BOREHOLE 0	39648.81104	
722138.13	4294240.581	4313	12-Jul-15	BRIDGETON BOREHOLE 0	39649.62195	
722137.902	4294240.433	3798	12-Jul-15	BRIDGETON BOREHOLE 0	39650.48706	
722137.667	4294240.12	3825	12-Jul-15	BRIDGETON BOREHOLE 0	39651.63306	
722137.656	4294239.813	4059	12-Jul-15	BRIDGETON BOREHOLE 0	39652.76099	
722137.814	4294239.674	4346	12-Jul-15	BRIDGETON BOREHOLE 0	39653.60095	
722138.161	4294239.46	4612	12-Jul-15	BRIDGETON BOREHOLE 0	39654.84399	
722138.363	4294239.407	4319	12-Jul-15	BRIDGETON BOREHOLE 0	39655.64905	
722138.647	4294239.416	4634	12-Jul-15	BRIDGETON BOREHOLE 0	39656.66504	
722139.052	4294239.61	4407	12-Jul-15	BRIDGETON BOREHOLE 0	39657.72705	
722139.363	4294239.926	4481	12-Jul-15	BRIDGETON BOREHOLE 0	39658.75696	
722139.55	4294240.266	4343	12-Jul-15	BRIDGETON BOREHOLE 0	39659.63098	
722139.794	4294240.675	4723	12-Jul-15	BRIDGETON BOREHOLE 0	39660.88403	
722139.919	4294240.869	4486	12-Jul-15	BRIDGETON BOREHOLE 0	39661.59094	
722140.062	4294241.062	4226	12-Jul-15	BRIDGETON BOREHOLE 0	39662.71497	
722140.273	4294241.214	4327	12-Jul-15	BRIDGETON BOREHOLE 0	39663.56201	
722140.59	4294241.435	4279	12-Jul-15	BRIDGETON BOREHOLE 0	39664.58899	
722140.881	4294241.687	4469	12-Jul-15	BRIDGETON BOREHOLE 0	39665.53601	
722141.204	4294241.99	4366	12-Jul-15	BRIDGETON BOREHOLE 0	39666.70203	
722141.474	4294242.083	4278	12-Jul-15	BRIDGETON BOREHOLE 0	39667.70703	
722142.323	4294242.197	4769	12-Jul-15	BRIDGETON BOREHOLE 0	39668.85498	
722142.656	4294241.871	4325	12-Jul-15	BRIDGETON BOREHOLE 0	39669.71594	
722142.373	4294241.335	4803	12-Jul-15	BRIDGETON BOREHOLE 0	39670.66504	
722142.569	4294240.703	4704	12-Jul-15	BRIDGETON BOREHOLE 0	39671.65295	
722142.49	4294240.298	4528	12-Jul-15	BRIDGETON BOREHOLE 0	39672.80701	
722141.921	4294240.327	4377	12-Jul-15	BRIDGETON BOREHOLE 0	39673.68201	
722141.75	4294240.306	4307	12-Jul-15	BRIDGETON BOREHOLE 0	39674.802	
722141.958	4294240.265	4732	12-Jul-15	BRIDGETON BOREHOLE 0	39675.85803	
722141.678	4294240.391	4754	12-Jul-15	BRIDGETON BOREHOLE 0	39676.85303	
722141.482	4294240.331	4632	12-Jul-15	BRIDGETON BOREHOLE 0	39677.61597	
722141.165	4294240.136	3925	12-Jul-15	BRIDGETON BOREHOLE 0	39678.56995	
722140.858	4294239.747	3726	12-Jul-15	BRIDGETON BOREHOLE 0	39679.61206	
722140.688	4294239.327	3870	12-Jul-15	BRIDGETON BOREHOLE 0	39680.68799	
722140.463	4294238.865	4084	12-Jul-15	BRIDGETON BOREHOLE 0	39681.61902	
722140.199	4294238.52	4502	12-Jul-15	BRIDGETON BOREHOLE 0	39682.84705	
722140.006	4294238.311	4415	12-Jul-15	BRIDGETON BOREHOLE 0	39683.69702	
722139.942	4294237.9	4553	12-Jul-15	BRIDGETON BOREHOLE 0	39684.79004	
722139.89	4294237.757	4383	12-Jul-15	BRIDGETON BOREHOLE 0	39685.72803	
722139.772	4294237.27	3915	12-Jul-15	BRIDGETON BOREHOLE 0	39686.79895	
722139.801	4294237.022	4411	12-Jul-15	BRIDGETON BOREHOLE 0	39687.60498	
722140.119	4294237.18	4266	12-Jul-15	BRIDGETON BOREHOLE 0	39688.62805	
722140.488	4294237.571	4380	12-Jul-15	BRIDGETON BOREHOLE 0	39689.69495	
722140.858	4294237.579	4376	12-Jul-15	BRIDGETON BOREHOLE 0	39690.76404	
722141.37	4294237.62	4329	12-Jul-15	BRIDGETON BOREHOLE 0	39691.71594	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722141.541	4294237.917	4430	12-Jul-15	BRIDGETON BOREHOLE 0	39692.59399	
722141.87	4294238.148	4299	12-Jul-15	BRIDGETON BOREHOLE 0	39693.59204	
722142.391	4294237.821	4488	12-Jul-15	BRIDGETON BOREHOLE 0	39694.78296	
722142.557	4294237.828	4947	12-Jul-15	BRIDGETON BOREHOLE 0	39695.71594	
722142.273	4294238.097	4875	12-Jul-15	BRIDGETON BOREHOLE 0	39696.79004	
722142.497	4294238.214	4437	12-Jul-15	BRIDGETON BOREHOLE 0	39697.69104	
722143.108	4294238.387	4438	12-Jul-15	BRIDGETON BOREHOLE 0	39698.78796	
722143.249	4294238.644	4074	12-Jul-15	BRIDGETON BOREHOLE 0	39699.46704	
722143.097	4294239.277	4016	12-Jul-15	BRIDGETON BOREHOLE 0	39700.71301	
722142.872	4294239.627	4100	12-Jul-15	BRIDGETON BOREHOLE 0	39701.78003	
722142.821	4294239.893	4181	12-Jul-15	BRIDGETON BOREHOLE 0	39702.63696	
722143.234	4294240.156	4527	12-Jul-15	BRIDGETON BOREHOLE 0	39703.73499	
722143.54	4294239.83	4279	12-Jul-15	BRIDGETON BOREHOLE 0	39704.72705	
722143.688	4294239.597	4454	12-Jul-15	BRIDGETON BOREHOLE 0	39705.60205	
722143.819	4294239.708	4305	12-Jul-15	BRIDGETON BOREHOLE 0	39706.604	
722144.092	4294239.813	4904	12-Jul-15	BRIDGETON BOREHOLE 0	39707.73999	
722144.065	4294239.727	4873	12-Jul-15	BRIDGETON BOREHOLE 0	39708.54602	
722143.659	4294239.628	4639	12-Jul-15	BRIDGETON BOREHOLE 0	39709.71997	
722142.721	4294239.811	4499	12-Jul-15	BRIDGETON BOREHOLE 0	39710.80396	
722142.169	4294239.962	4848	12-Jul-15	BRIDGETON BOREHOLE 0	39711.66101	
722141.637	4294239.839	4609	12-Jul-15	BRIDGETON BOREHOLE 0	39712.61304	
722141.213	4294239.269	4738	12-Jul-15	BRIDGETON BOREHOLE 0	39713.60706	
722140.957	4294238.599	4457	12-Jul-15	BRIDGETON BOREHOLE 0	39714.90198	
722140.863	4294238.596	4037	12-Jul-15	BRIDGETON BOREHOLE 0	39715.62195	
722140.725	4294238.481	4101	12-Jul-15	BRIDGETON BOREHOLE 0	39716.66199	
722140.47	4294238.489	4133	12-Jul-15	BRIDGETON BOREHOLE 0	39717.80298	
722140.225	4294238.427	4522	12-Jul-15	BRIDGETON BOREHOLE 0	39718.698	
722139.812	4294238.065	4403	12-Jul-15	BRIDGETON BOREHOLE 0	39719.78198	
722139.711	4294237.657	4104	12-Jul-15	BRIDGETON BOREHOLE 0	39720.85498	
722139.625	4294237.299	4161	12-Jul-15	BRIDGETON BOREHOLE 0	39721.599	
722139.595	4294236.969	4125	12-Jul-15	BRIDGETON BOREHOLE 0	39722.44397	
722139.879	4294236.557	4248	12-Jul-15	BRIDGETON BOREHOLE 0	39723.55396	
722140.421	4294236.315	4497	12-Jul-15	BRIDGETON BOREHOLE 0	39724.71704	
722140.762	4294236.354	4382	12-Jul-15	BRIDGETON BOREHOLE 0	39725.59998	
722141.246	4294236.451	5045	12-Jul-15	BRIDGETON BOREHOLE 0	39726.63904	
722141.684	4294236.546	5207	12-Jul-15	BRIDGETON BOREHOLE 0	39727.46997	
722142.239	4294236.689	5111	12-Jul-15	BRIDGETON BOREHOLE 0	39728.547	
722142.728	4294236.885	4698	12-Jul-15	BRIDGETON BOREHOLE 0	39729.68994	
722143	4294237.125	4682	12-Jul-15	BRIDGETON BOREHOLE 0	39730.55103	
722143.389	4294237.365	4074	12-Jul-15	BRIDGETON BOREHOLE 0	39731.72498	
722143.642	4294237.589	4834	12-Jul-15	BRIDGETON BOREHOLE 0	39732.85095	
722143.901	4294237.821	4489	12-Jul-15	BRIDGETON BOREHOLE 0	39733.61401	
722144.305	4294238.097	4572	12-Jul-15	BRIDGETON BOREHOLE 0	39734.74097	
722144.546	4294238.224	4574	12-Jul-15	BRIDGETON BOREHOLE 0	39735.54395	
722144.794	4294238.303	4620	12-Jul-15	BRIDGETON BOREHOLE 0	39736.44397	
722145.071	4294238.357	4159	12-Jul-15	BRIDGETON BOREHOLE 0	39737.56299	
722145.268	4294238.385	3967	12-Jul-15	BRIDGETON BOREHOLE 0	39738.50806	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722145.265	4294238.272	4114	12-Jul-15	BRIDGETON BOREHOLE 0	39739.72998	
722145.229	4294238.145	4526	12-Jul-15	BRIDGETON BOREHOLE 0	39740.79004	
722145.108	4294238.093	4736	12-Jul-15	BRIDGETON BOREHOLE 0	39741.74194	
722144.938	4294238.056	5071	12-Jul-15	BRIDGETON BOREHOLE 0	39742.703	
722144.619	4294238.06	5042	12-Jul-15	BRIDGETON BOREHOLE 0	39743.54895	
722144.129	4294237.905	5214	12-Jul-15	BRIDGETON BOREHOLE 0	39744.72302	
722143.871	4294237.649	5175	12-Jul-15	BRIDGETON BOREHOLE 0	39745.59705	
722143.677	4294237.308	4711	12-Jul-15	BRIDGETON BOREHOLE 0	39746.74097	
722143.516	4294237.063	4465	12-Jul-15	BRIDGETON BOREHOLE 0	39747.66199	
722143.109	4294236.71	4709	12-Jul-15	BRIDGETON BOREHOLE 0	39748.72705	
722142.72	4294236.516	4508	12-Jul-15	BRIDGETON BOREHOLE 0	39749.69702	
722142.562	4294236.271	4748	12-Jul-15	BRIDGETON BOREHOLE 0	39750.75195	
722142.504	4294236.018	5266	12-Jul-15	BRIDGETON BOREHOLE 0	39751.60095	
722142.384	4294235.744	4702	12-Jul-15	BRIDGETON BOREHOLE 0	39752.46899	
722142.524	4294235.396	4587	12-Jul-15	BRIDGETON BOREHOLE 0	39753.64697	
722143.011	4294235.076	4545	12-Jul-15	BRIDGETON BOREHOLE 0	39754.82104	
722143.199	4294235.032	5084	12-Jul-15	BRIDGETON BOREHOLE 0	39755.47205	
722143.671	4294235.113	5035	12-Jul-15	BRIDGETON BOREHOLE 0	39756.65503	
722144.204	4294235.37	4864	12-Jul-15	BRIDGETON BOREHOLE 0	39757.59302	
722144.647	4294235.783	4814	12-Jul-15	BRIDGETON BOREHOLE 0	39758.69397	
722144.817	4294235.954	4312	12-Jul-15	BRIDGETON BOREHOLE 0	39759.54297	
722145.102	4294236.143	4166	12-Jul-15	BRIDGETON BOREHOLE 0	39760.755	
722145.254	4294236.29	3986	12-Jul-15	BRIDGETON BOREHOLE 0	39761.35303	
722145.593	4294236.686	4111	12-Jul-15	BRIDGETON BOREHOLE 0	39762.62805	
722145.872	4294236.921	3902	12-Jul-15	BRIDGETON BOREHOLE 0	39763.703	
722146.13	4294237.158	3846	12-Jul-15	BRIDGETON BOREHOLE 0	39764.73303	
722146.348	4294237.299	3858	12-Jul-15	BRIDGETON BOREHOLE 0	39765.55005	
722146.49	4294237.351	4271	12-Jul-15	BRIDGETON BOREHOLE 0	39766.72205	
722146.555	4294237.255	4285	12-Jul-15	BRIDGETON BOREHOLE 0	39767.61694	
722146.825	4294237.031	4210	12-Jul-15	BRIDGETON BOREHOLE 0	39768.60303	
722147.011	4294236.826	4190	12-Jul-15	BRIDGETON BOREHOLE 0	39769.70898	
722146.913	4294236.693	4180	12-Jul-15	BRIDGETON BOREHOLE 0	39770.62	
722146.727	4294236.547	4533	12-Jul-15	BRIDGETON BOREHOLE 0	39771.49805	
722146.339	4294236.366	4942	12-Jul-15	BRIDGETON BOREHOLE 0	39772.58704	
722145.983	4294236.177	4565	12-Jul-15	BRIDGETON BOREHOLE 0	39773.46204	
722145.598	4294235.881	4008	12-Jul-15	BRIDGETON BOREHOLE 0	39774.59094	
722145.309	4294235.788	4140	12-Jul-15	BRIDGETON BOREHOLE 0	39775.45105	
722144.878	4294235.705	3837	12-Jul-15	BRIDGETON BOREHOLE 0	39776.51697	
722144.341	4294235.565	4078	12-Jul-15	BRIDGETON BOREHOLE 0	39777.72302	
722143.946	4294235.231	4139	12-Jul-15	BRIDGETON BOREHOLE 0	39778.84497	
722143.679	4294234.894	4345	12-Jul-15	BRIDGETON BOREHOLE 0	39779.59705	
722143.524	4294234.54	4402	12-Jul-15	BRIDGETON BOREHOLE 0	39780.50195	
722143.68	4294234.182	4831	12-Jul-15	BRIDGETON BOREHOLE 0	39781.65698	
722144.129	4294234.011	4870	12-Jul-15	BRIDGETON BOREHOLE 0	39782.74902	
722144.577	4294233.911	4952	12-Jul-15	BRIDGETON BOREHOLE 0	39783.58801	
722144.991	4294233.899	4825	12-Jul-15	BRIDGETON BOREHOLE 0	39784.72498	
722145.211	4294233.926	4559	12-Jul-15	BRIDGETON BOREHOLE 0	39785.54504	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722145.511	4294233.931	4657	12-Jul-15	BRIDGETON BOREHOLE 0	39786.69104	
722145.71	4294234.023	4572	12-Jul-15	BRIDGETON BOREHOLE 0	39787.38794	
722146.089	4294234.274	4076	12-Jul-15	BRIDGETON BOREHOLE 0	39788.56995	
722146.334	4294234.433	3827	12-Jul-15	BRIDGETON BOREHOLE 0	39789.34204	
722146.688	4294234.685	3901	12-Jul-15	BRIDGETON BOREHOLE 0	39790.71106	
722146.873	4294234.88	4253	12-Jul-15	BRIDGETON BOREHOLE 0	39791.46997	
722147.139	4294235.269	4147	12-Jul-15	BRIDGETON BOREHOLE 0	39792.59998	
722147.237	4294235.483	4035	12-Jul-15	BRIDGETON BOREHOLE 0	39793.44299	
722147.371	4294235.625	5277	12-Jul-15	BRIDGETON BOREHOLE 0	39794.599	
722147.411	4294235.699	5008	12-Jul-15	BRIDGETON BOREHOLE 0	39795.72595	
722147.509	4294235.61	5206	12-Jul-15	BRIDGETON BOREHOLE 0	39796.64697	
722147.601	4294235.501	4953	12-Jul-15	BRIDGETON BOREHOLE 0	39797.453	
722147.583	4294235.269	4623	12-Jul-15	BRIDGETON BOREHOLE 0	39798.55396	
722147.352	4294234.959	4273	12-Jul-15	BRIDGETON BOREHOLE 0	39799.68201	
722146.952	4294234.694	3866	12-Jul-15	BRIDGETON BOREHOLE 0	39800.73999	
722146.778	4294234.586	4336	12-Jul-15	BRIDGETON BOREHOLE 0	39801.58899	
722146.49	4294234.468	4321	12-Jul-15	BRIDGETON BOREHOLE 0	39802.59302	
722146.192	4294234.294	3861	12-Jul-15	BRIDGETON BOREHOLE 0	39803.41504	
722145.883	4294233.996	4111	12-Jul-15	BRIDGETON BOREHOLE 0	39804.49304	
722145.539	4294233.678	4142	12-Jul-15	BRIDGETON BOREHOLE 0	39805.64502	
722145.179	4294233.33	4160	12-Jul-15	BRIDGETON BOREHOLE 0	39806.74695	
722144.845	4294233.08	4387	12-Jul-15	BRIDGETON BOREHOLE 0	39807.64697	
722144.687	4294232.6	4620	12-Jul-15	BRIDGETON BOREHOLE 0	39808.77405	
722145.021	4294232.291	4549	12-Jul-15	BRIDGETON BOREHOLE 0	39809.578	
722145.68	4294232.083	4613	12-Jul-15	BRIDGETON BOREHOLE 0	39810.64099	
722146.087	4294232.152	4635	12-Jul-15	BRIDGETON BOREHOLE 0	39811.46106	
722146.426	4294232.324	4332	12-Jul-15	BRIDGETON BOREHOLE 0	39812.50403	
722146.689	4294232.501	4064	12-Jul-15	BRIDGETON BOREHOLE 0	39813.61206	
722146.976	4294232.786	4100	12-Jul-15	BRIDGETON BOREHOLE 0	39814.698	
722147.215	4294232.989	4083	12-Jul-15	BRIDGETON BOREHOLE 0	39815.59204	
722147.535	4294233.324	3782	12-Jul-15	BRIDGETON BOREHOLE 0	39816.76404	
722147.704	4294233.518	4213	12-Jul-15	BRIDGETON BOREHOLE 0	39817.51294	
722147.981	4294233.795	4200	12-Jul-15	BRIDGETON BOREHOLE 0	39818.72095	
722148.178	4294233.971	4530	12-Jul-15	BRIDGETON BOREHOLE 0	39819.45898	
722148.466	4294234.216	4669	12-Jul-15	BRIDGETON BOREHOLE 0	39820.58997	
722148.677	4294234.251	4411	12-Jul-15	BRIDGETON BOREHOLE 0	39821.44995	
722149.026	4294234.065	4859	12-Jul-15	BRIDGETON BOREHOLE 0	39822.54602	
722149.193	4294233.851	5144	12-Jul-15	BRIDGETON BOREHOLE 0	39823.39905	
722149.08	4294233.591	4965	12-Jul-15	BRIDGETON BOREHOLE 0	39824.49902	
722148.767	4294233.396	4158	12-Jul-15	BRIDGETON BOREHOLE 0	39825.59094	
722148.438	4294233.204	4221	12-Jul-15	BRIDGETON BOREHOLE 0	39826.73901	
722148.264	4294233.056	4422	12-Jul-15	BRIDGETON BOREHOLE 0	39827.34595	
722147.872	4294232.72	4445	12-Jul-15	BRIDGETON BOREHOLE 0	39828.74304	
722147.603	4294232.567	4360	12-Jul-15	BRIDGETON BOREHOLE 0	39829.59998	
722147.262	4294232.437	4807	12-Jul-15	BRIDGETON BOREHOLE 0	39830.70898	
722146.982	4294232.326	4196	12-Jul-15	BRIDGETON BOREHOLE 0	39831.61902	
722146.702	4294232.026	4123	12-Jul-15	BRIDGETON BOREHOLE 0	39832.59497	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722146.396	4294231.519	3897	12-Jul-15	BRIDGETON BOREHOLE 0	39833.71997	
722146.517	4294231.261	4985	12-Jul-15	BRIDGETON BOREHOLE 0	39834.78503	
722146.68	4294231.366	4792	12-Jul-15	BRIDGETON BOREHOLE 0	39835.59802	
722146.938	4294231.66	4915	12-Jul-15	BRIDGETON BOREHOLE 0	39836.72095	
722147.116	4294231.804	4722	12-Jul-15	BRIDGETON BOREHOLE 0	39837.34399	
722147.475	4294232.082	4703	12-Jul-15	BRIDGETON BOREHOLE 0	39838.59399	
722147.798	4294232.281	4708	12-Jul-15	BRIDGETON BOREHOLE 0	39839.50696	
722148.252	4294232.58	4418	12-Jul-15	BRIDGETON BOREHOLE 0	39840.60803	
722148.619	4294232.831	4428	12-Jul-15	BRIDGETON BOREHOLE 0	39841.474	
722149.028	4294233.097	4433	12-Jul-15	BRIDGETON BOREHOLE 0	39842.52905	
722149.278	4294233.25	4466	12-Jul-15	BRIDGETON BOREHOLE 0	39843.32495	
722149.625	4294233.319	4942	12-Jul-15	BRIDGETON BOREHOLE 0	39844.56702	
722149.717	4294233.135	4880	12-Jul-15	BRIDGETON BOREHOLE 0	39845.57202	
722149.801	4294232.933	4672	12-Jul-15	BRIDGETON BOREHOLE 0	39846.50098	
722149.822	4294232.834	4225	12-Jul-15	BRIDGETON BOREHOLE 0	39847.69299	
722149.616	4294232.7	4604	12-Jul-15	BRIDGETON BOREHOLE 0	39848.54797	
722149.24	4294232.486	4360	12-Jul-15	BRIDGETON BOREHOLE 0	39849.69604	
722148.77	4294232.276	4995	12-Jul-15	BRIDGETON BOREHOLE 0	39850.87903	
722148.594	4294232.148	5119	12-Jul-15	BRIDGETON BOREHOLE 0	39851.54102	
722148.231	4294231.914	4462	12-Jul-15	BRIDGETON BOREHOLE 0	39852.72498	
722147.988	4294231.729	4212	12-Jul-15	BRIDGETON BOREHOLE 0	39853.57898	
722147.75	4294231.484	4492	12-Jul-15	BRIDGETON BOREHOLE 0	39854.70496	
722147.543	4294231.27	4626	12-Jul-15	BRIDGETON BOREHOLE 0	39855.54895	
722147.139	4294230.696	4290	12-Jul-15	BRIDGETON BOREHOLE 0	39856.77197	
722147.207	4294230.403	4648	12-Jul-15	BRIDGETON BOREHOLE 0	39857.60095	
722147.541	4294230.217	4947	12-Jul-15	BRIDGETON BOREHOLE 0	39858.599	
722147.869	4294230.206	4417	12-Jul-15	BRIDGETON BOREHOLE 0	39859.42395	
722148.191	4294230.391	4727	12-Jul-15	BRIDGETON BOREHOLE 0	39860.52002	
722148.488	4294230.667	4369	12-Jul-15	BRIDGETON BOREHOLE 0	39861.62402	
722148.923	4294230.89	4287	12-Jul-15	BRIDGETON BOREHOLE 0	39862.66797	
722149.231	4294231.053	4504	12-Jul-15	BRIDGETON BOREHOLE 0	39863.34998	
722149.829	4294231.337	4191	12-Jul-15	BRIDGETON BOREHOLE 0	39864.79504	
722150.3	4294231.625	4367	12-Jul-15	BRIDGETON BOREHOLE 0	39865.66101	
722150.881	4294232.029	4654	12-Jul-15	BRIDGETON BOREHOLE 0	39866.72498	
722151.081	4294232.182	5160	12-Jul-15	BRIDGETON BOREHOLE 0	39867.34497	
722150.759	4294232.116	5460	12-Jul-15	BRIDGETON BOREHOLE 0	39868.495	
722150.058	4294232.106	5748	12-Jul-15	BRIDGETON BOREHOLE 0	39869.69604	
722164.246	4294219.461	3532	25-Jun-15	BRIDGETON BOREHOLE 1	391440.081	915
722163.652	4294218.891	3532	25-Jun-15	BRIDGETON BOREHOLE 1	391440.081	
722164.275	4294219.435	3606	25-Jun-15	BRIDGETON BOREHOLE 1	391441.413	917
722163.651	4294218.893	3606	25-Jun-15	BRIDGETON BOREHOLE 1	391441.413	
722164.248	4294219.479	3291	25-Jun-15	BRIDGETON BOREHOLE 1	391442.507	918
722163.655	4294218.908	3291	25-Jun-15	BRIDGETON BOREHOLE 1	391442.507	
722164.168	4294219.581	3165	25-Jun-15	BRIDGETON BOREHOLE 1	391443.117	919
722163.661	4294218.922	3165	25-Jun-15	BRIDGETON BOREHOLE 1	391443.117	
722164.067	4294219.75	3308	25-Jun-15	BRIDGETON BOREHOLE 1	391444.176	920
722163.662	4294218.938	3308	25-Jun-15	BRIDGETON BOREHOLE 1	391444.176	

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722164.059	4294219.773	2999	25-Jun-15	BRIDGETON BOREHOLE 1	391445.347	921
722163.658	4294218.941	2999	25-Jun-15	BRIDGETON BOREHOLE 1	391445.347	
722164.055	4294219.775	3222	25-Jun-15	BRIDGETON BOREHOLE 1	391446.194	922
722163.654	4294218.94	3222	25-Jun-15	BRIDGETON BOREHOLE 1	391446.194	
722164.05	4294219.772	3074	25-Jun-15	BRIDGETON BOREHOLE 1	391447.155	923
722163.65	4294218.935	3074	25-Jun-15	BRIDGETON BOREHOLE 1	391447.155	
722164.052	4294219.764	3125	25-Jun-15	BRIDGETON BOREHOLE 1	391448.309	924
722163.634	4294218.923	3125	25-Jun-15	BRIDGETON BOREHOLE 1	391448.309	
722164.055	4294219.754	2953	25-Jun-15	BRIDGETON BOREHOLE 1	391449.355	925
722163.623	4294218.926	2953	25-Jun-15	BRIDGETON BOREHOLE 1	391449.355	
722164.062	4294219.726	2958	25-Jun-15	BRIDGETON BOREHOLE 1	391450.462	926
722163.622	4294218.93	2958	25-Jun-15	BRIDGETON BOREHOLE 1	391450.462	
722164.063	4294219.713	3187	25-Jun-15	BRIDGETON BOREHOLE 1	391451.109	927
722163.621	4294218.929	3187	25-Jun-15	BRIDGETON BOREHOLE 1	391451.109	
722164.067	4294219.707	3396	25-Jun-15	BRIDGETON BOREHOLE 1	391452.224	928
722163.622	4294218.927	3396	25-Jun-15	BRIDGETON BOREHOLE 1	391452.224	
722164.07	4294219.717	3198	25-Jun-15	BRIDGETON BOREHOLE 1	391453.306	929
722163.62	4294218.924	3198	25-Jun-15	BRIDGETON BOREHOLE 1	391453.306	
722164.062	4294219.74	3125	25-Jun-15	BRIDGETON BOREHOLE 1	391454.437	930
722163.616	4294218.921	3125	25-Jun-15	BRIDGETON BOREHOLE 1	391454.437	
722164.054	4294219.756	3293	25-Jun-15	BRIDGETON BOREHOLE 1	391455.038	931
722163.613	4294218.921	3293	25-Jun-15	BRIDGETON BOREHOLE 1	391455.038	
722164.053	4294219.756	3103	25-Jun-15	BRIDGETON BOREHOLE 1	391456.353	932
722163.61	4294218.903	3103	25-Jun-15	BRIDGETON BOREHOLE 1	391456.353	
722164.05	4294219.742	3232	25-Jun-15	BRIDGETON BOREHOLE 1	391457.215	933
722163.599	4294218.887	3232	25-Jun-15	BRIDGETON BOREHOLE 1	391457.215	
722164.054	4294219.718	3147	25-Jun-15	BRIDGETON BOREHOLE 1	391458.298	934
722163.593	4294218.88	3147	25-Jun-15	BRIDGETON BOREHOLE 1	391458.298	
722164.053	4294219.704	3082	25-Jun-15	BRIDGETON BOREHOLE 1	391459.295	935
722163.593	4294218.873	3082	25-Jun-15	BRIDGETON BOREHOLE 1	391459.295	
722164.054	4294219.728	3057	25-Jun-15	BRIDGETON BOREHOLE 1	391460.4	936
722163.592	4294218.861	3057	25-Jun-15	BRIDGETON BOREHOLE 1	391460.4	
722164.057	4294219.747	3070	25-Jun-15	BRIDGETON BOREHOLE 1	391461.038	937
722163.585	4294218.842	3070	25-Jun-15	BRIDGETON BOREHOLE 1	391461.038	
722164.408	4294220.657	5202	25-Jun-15	BRIDGETON BOREHOLE 1	391923.23	942
722163.195	4294221.566	5202	25-Jun-15	BRIDGETON BOREHOLE 1	391923.23	
722164.407	4294220.663	5408	25-Jun-15	BRIDGETON BOREHOLE 1	391924.136	943
722163.194	4294221.574	5408	25-Jun-15	BRIDGETON BOREHOLE 1	391924.136	
722164.391	4294220.67	5015	25-Jun-15	BRIDGETON BOREHOLE 1	391925.248	944
722163.167	4294221.561	5015	25-Jun-15	BRIDGETON BOREHOLE 1	391925.248	
722164.433	4294220.64	5483	25-Jun-15	BRIDGETON BOREHOLE 1	391926.308	945
722163.285	4294221.566	5483	25-Jun-15	BRIDGETON BOREHOLE 1	391926.308	
722164.449	4294220.601	4787	25-Jun-15	BRIDGETON BOREHOLE 1	391927.111	946
722163.353	4294221.569	4787	25-Jun-15	BRIDGETON BOREHOLE 1	391927.111	
722164.334	4294220.615	4807	25-Jun-15	BRIDGETON BOREHOLE 1	391928.094	947
722163.198	4294221.587	4807	25-Jun-15	BRIDGETON BOREHOLE 1	391928.094	
722164.347	4294220.497	5351	25-Jun-15	BRIDGETON BOREHOLE 1	391929.195	948

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722163.18	4294221.424	5351	25-Jun-15	BRIDGETON BOREHOLE 1	391929.195	
722164.029	4294220.125	5403	25-Jun-15	BRIDGETON BOREHOLE 1	391930.312	949
722162.819	4294220.994	5403	25-Jun-15	BRIDGETON BOREHOLE 1	391930.312	
722163.797	4294219.806	5004	25-Jun-15	BRIDGETON BOREHOLE 1	391931.066	950
722162.562	4294220.63	5004	25-Jun-15	BRIDGETON BOREHOLE 1	391931.066	
722163.394	4294219.5	4974	25-Jun-15	BRIDGETON BOREHOLE 1	391932.043	951
722162.178	4294220.224	4974	25-Jun-15	BRIDGETON BOREHOLE 1	391932.043	
722162.815	4294219.015	4905	25-Jun-15	BRIDGETON BOREHOLE 1	391933.225	952
722161.564	4294219.65	4905	25-Jun-15	BRIDGETON BOREHOLE 1	391933.225	
722162.533	4294218.75	4807	25-Jun-15	BRIDGETON BOREHOLE 1	391933.991	953
722161.187	4294219.321	4807	25-Jun-15	BRIDGETON BOREHOLE 1	391933.991	
722162.221	4294218.342	4616	25-Jun-15	BRIDGETON BOREHOLE 1	391935.118	954
722160.846	4294218.87	4616	25-Jun-15	BRIDGETON BOREHOLE 1	391935.118	
722161.923	4294217.985	4891	25-Jun-15	BRIDGETON BOREHOLE 1	391936.268	955
722160.517	4294218.532	4891	25-Jun-15	BRIDGETON BOREHOLE 1	391936.268	
722161.758	4294217.738	4679	25-Jun-15	BRIDGETON BOREHOLE 1	391937.041	956
722160.333	4294218.314	4679	25-Jun-15	BRIDGETON BOREHOLE 1	391937.041	
722161.489	4294217.378	5144	25-Jun-15	BRIDGETON BOREHOLE 1	391938.135	957
722160.054	4294217.978	5144	25-Jun-15	BRIDGETON BOREHOLE 1	391938.135	
722161.262	4294217.085	4761	25-Jun-15	BRIDGETON BOREHOLE 1	391939.081	958
722159.812	4294217.686	4761	25-Jun-15	BRIDGETON BOREHOLE 1	391939.081	
722160.879	4294216.796	5235	25-Jun-15	BRIDGETON BOREHOLE 1	391940.354	959
722159.379	4294217.383	5235	25-Jun-15	BRIDGETON BOREHOLE 1	391940.354	
722160.705	4294216.851	4820	25-Jun-15	BRIDGETON BOREHOLE 1	391941.233	960
722159.168	4294217.388	4820	25-Jun-15	BRIDGETON BOREHOLE 1	391941.233	
722160.743	4294217.03	4751	25-Jun-15	BRIDGETON BOREHOLE 1	391942.342	961
722159.185	4294217.504	4751	25-Jun-15	BRIDGETON BOREHOLE 1	391942.342	
722160.801	4294217.102	4832	25-Jun-15	BRIDGETON BOREHOLE 1	391943.098	962
722159.285	4294217.534	4832	25-Jun-15	BRIDGETON BOREHOLE 1	391943.098	
722160.938	4294217.271	5036	25-Jun-15	BRIDGETON BOREHOLE 1	391944.094	963
722159.488	4294217.695	5036	25-Jun-15	BRIDGETON BOREHOLE 1	391944.094	
722161.092	4294217.432	5255	25-Jun-15	BRIDGETON BOREHOLE 1	391944.878	964
722159.731	4294217.873	5255	25-Jun-15	BRIDGETON BOREHOLE 1	391944.878	
722161.307	4294217.711	4966	25-Jun-15	BRIDGETON BOREHOLE 1	391946.125	965
722160.075	4294218.186	4966	25-Jun-15	BRIDGETON BOREHOLE 1	391946.125	
722161.599	4294217.923	4897	25-Jun-15	BRIDGETON BOREHOLE 1	392007.087	966
722161.484	4294218.514	4897	25-Jun-15	BRIDGETON BOREHOLE 1	392007.087	
722161.624	4294217.907	5080	25-Jun-15	BRIDGETON BOREHOLE 1	392008.148	967
722161.434	4294218.494	5080	25-Jun-15	BRIDGETON BOREHOLE 1	392008.148	
722161.697	4294217.856	4785	25-Jun-15	BRIDGETON BOREHOLE 1	392009.206	968
722161.463	4294218.413	4785	25-Jun-15	BRIDGETON BOREHOLE 1	392009.206	
722161.842	4294217.968	4379	25-Jun-15	BRIDGETON BOREHOLE 1	392010.084	969
722161.757	4294218.419	4379	25-Jun-15	BRIDGETON BOREHOLE 1	392010.084	
722162.156	4294218.109	4135	25-Jun-15	BRIDGETON BOREHOLE 1	392010.841	970
722162.088	4294218.573	4135	25-Jun-15	BRIDGETON BOREHOLE 1	392010.841	
722162.38	4294218.29	4268	25-Jun-15	BRIDGETON BOREHOLE 1	392012.035	971
722162.315	4294218.675	4268	25-Jun-15	BRIDGETON BOREHOLE 1	392012.035	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722162.694	4294218.685	4343	25-Jun-15	BRIDGETON BOREHOLE 1	392013.037	972
722162.6	4294219.06	4343	25-Jun-15	BRIDGETON BOREHOLE 1	392013.037	
722163.379	4294219.304	4145	25-Jun-15	BRIDGETON BOREHOLE 1	392014.305	973
722163.227	4294219.657	4145	25-Jun-15	BRIDGETON BOREHOLE 1	392014.305	
722163.899	4294219.88	4357	25-Jun-15	BRIDGETON BOREHOLE 1	392015.212	974
722163.733	4294220.224	4357	25-Jun-15	BRIDGETON BOREHOLE 1	392015.212	
722164.461	4294220.443	4566	25-Jun-15	BRIDGETON BOREHOLE 1	392016.094	975
722164.265	4294220.777	4566	25-Jun-15	BRIDGETON BOREHOLE 1	392016.094	
722164.972	4294220.849	5051	25-Jun-15	BRIDGETON BOREHOLE 1	392016.861	976
722164.779	4294221.196	5051	25-Jun-15	BRIDGETON BOREHOLE 1	392016.861	
722165.461	4294221.356	5233	25-Jun-15	BRIDGETON BOREHOLE 1	392017.918	977
722165.255	4294221.71	5233	25-Jun-15	BRIDGETON BOREHOLE 1	392017.918	
722165.808	4294221.896	4893	25-Jun-15	BRIDGETON BOREHOLE 1	392018.923	978
722165.595	4294222.254	4893	25-Jun-15	BRIDGETON BOREHOLE 1	392018.923	
722165.871	4294222.57	5085	25-Jun-15	BRIDGETON BOREHOLE 1	392020.04	979
722165.641	4294222.923	5085	25-Jun-15	BRIDGETON BOREHOLE 1	392020.04	
722165.27	4294222.856	5425	25-Jun-15	BRIDGETON BOREHOLE 1	392021.1	980
722164.949	4294223.205	5425	25-Jun-15	BRIDGETON BOREHOLE 1	392021.1	
722164.798	4294222.534	6037	25-Jun-15	BRIDGETON BOREHOLE 1	392022.111	981
722164.373	4294222.861	6037	25-Jun-15	BRIDGETON BOREHOLE 1	392022.111	
722164.31	4294222.098	5353	25-Jun-15	BRIDGETON BOREHOLE 1	392023.191	982
722163.809	4294222.359	5353	25-Jun-15	BRIDGETON BOREHOLE 1	392023.191	
722163.806	4294221.707	4961	25-Jun-15	BRIDGETON BOREHOLE 1	392024.176	983
722163.207	4294221.888	4961	25-Jun-15	BRIDGETON BOREHOLE 1	392024.176	
722163.351	4294221.364	4928	25-Jun-15	BRIDGETON BOREHOLE 1	392024.944	984
722162.718	4294221.51	4928	25-Jun-15	BRIDGETON BOREHOLE 1	392024.944	
722162.694	4294220.772	5239	25-Jun-15	BRIDGETON BOREHOLE 1	392026.04	985
722162.001	4294220.864	5239	25-Jun-15	BRIDGETON BOREHOLE 1	392026.04	
722162.166	4294220.319	5122	25-Jun-15	BRIDGETON BOREHOLE 1	392027.098	986
722161.385	4294220.37	5122	25-Jun-15	BRIDGETON BOREHOLE 1	392027.098	
722161.554	4294219.772	4561	25-Jun-15	BRIDGETON BOREHOLE 1	392028.216	987
722160.753	4294219.823	4561	25-Jun-15	BRIDGETON BOREHOLE 1	392028.216	
722161.101	4294219.425	4943	25-Jun-15	BRIDGETON BOREHOLE 1	392029.065	988
722160.233	4294219.512	4943	25-Jun-15	BRIDGETON BOREHOLE 1	392029.065	
722160.576	4294218.97	4588	25-Jun-15	BRIDGETON BOREHOLE 1	392030.147	989
722159.695	4294219.109	4588	25-Jun-15	BRIDGETON BOREHOLE 1	392030.147	
722160.135	4294218.604	4538	25-Jun-15	BRIDGETON BOREHOLE 1	392031.108	990
722159.185	4294218.752	4538	25-Jun-15	BRIDGETON BOREHOLE 1	392031.108	
722159.762	4294218.685	4750	25-Jun-15	BRIDGETON BOREHOLE 1	392032.257	991
722158.749	4294218.856	4750	25-Jun-15	BRIDGETON BOREHOLE 1	392032.257	
722159.843	4294219.052	4824	25-Jun-15	BRIDGETON BOREHOLE 1	392033.003	992
722158.862	4294219.221	4824	25-Jun-15	BRIDGETON BOREHOLE 1	392033.003	
722160.309	4294219.359	5144	25-Jun-15	BRIDGETON BOREHOLE 1	392034.097	993
722159.435	4294219.542	5144	25-Jun-15	BRIDGETON BOREHOLE 1	392034.097	
722160.778	4294219.538	4813	25-Jun-15	BRIDGETON BOREHOLE 1	392035.102	994
722159.977	4294219.708	4813	25-Jun-15	BRIDGETON BOREHOLE 1	392035.102	
722161.382	4294219.969	4950	25-Jun-15	BRIDGETON BOREHOLE 1	392036.089	995

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722160.575	4294220.253	4950	25-Jun-15	BRIDGETON BOREHOLE 1	392036.089	
722161.839	4294220.406	4824	25-Jun-15	BRIDGETON BOREHOLE 1	392036.888	996
722161.04	4294220.805	4824	25-Jun-15	BRIDGETON BOREHOLE 1	392036.888	
722162.319	4294220.983	4618	25-Jun-15	BRIDGETON BOREHOLE 1	392038.103	997
722161.521	4294221.461	4618	25-Jun-15	BRIDGETON BOREHOLE 1	392038.103	
722162.72	4294221.465	4623	25-Jun-15	BRIDGETON BOREHOLE 1	392039.1	998
722161.939	4294221.913	4623	25-Jun-15	BRIDGETON BOREHOLE 1	392039.1	
722163.256	4294222.073	5345	25-Jun-15	BRIDGETON BOREHOLE 1	392040.368	999
722162.523	4294222.461	5345	25-Jun-15	BRIDGETON BOREHOLE 1	392040.368	
722163.51	4294222.396	5264	25-Jun-15	BRIDGETON BOREHOLE 1	392041.044	1000
722162.809	4294222.77	5264	25-Jun-15	BRIDGETON BOREHOLE 1	392041.044	
722163.402	4294222.975	5263	25-Jun-15	BRIDGETON BOREHOLE 1	392042.093	1001
722162.701	4294223.335	5263	25-Jun-15	BRIDGETON BOREHOLE 1	392042.093	
722162.675	4294223.035	4745	25-Jun-15	BRIDGETON BOREHOLE 1	392043.103	1002
722161.898	4294223.365	4745	25-Jun-15	BRIDGETON BOREHOLE 1	392043.103	
722162.09	4294222.51	5017	25-Jun-15	BRIDGETON BOREHOLE 1	392044.276	1003
722161.222	4294222.776	5017	25-Jun-15	BRIDGETON BOREHOLE 1	392044.276	
722161.771	4294222.181	4932	25-Jun-15	BRIDGETON BOREHOLE 1	392045.093	1004
722160.781	4294222.408	4932	25-Jun-15	BRIDGETON BOREHOLE 1	392045.093	
722161.398	4294221.795	4929	25-Jun-15	BRIDGETON BOREHOLE 1	392046.093	1005
722160.298	4294221.988	4929	25-Jun-15	BRIDGETON BOREHOLE 1	392046.093	
722160.988	4294221.382	4572	25-Jun-15	BRIDGETON BOREHOLE 1	392047.198	1006
722159.85	4294221.567	4572	25-Jun-15	BRIDGETON BOREHOLE 1	392047.198	
722160.63	4294220.987	4109	25-Jun-15	BRIDGETON BOREHOLE 1	392048.271	1007
722159.573	4294221.219	4109	25-Jun-15	BRIDGETON BOREHOLE 1	392048.271	
722160.322	4294220.725	4201	25-Jun-15	BRIDGETON BOREHOLE 1	392049.04	1008
722159.346	4294220.995	4201	25-Jun-15	BRIDGETON BOREHOLE 1	392049.04	
722159.901	4294220.342	4238	25-Jun-15	BRIDGETON BOREHOLE 1	392050.087	1009
722158.956	4294220.674	4238	25-Jun-15	BRIDGETON BOREHOLE 1	392050.087	
722159.445	4294219.983	4281	25-Jun-15	BRIDGETON BOREHOLE 1	392051.204	1010
722158.454	4294220.377	4281	25-Jun-15	BRIDGETON BOREHOLE 1	392051.204	
722158.909	4294219.669	4455	25-Jun-15	BRIDGETON BOREHOLE 1	392052.343	1011
722157.885	4294220.089	4455	25-Jun-15	BRIDGETON BOREHOLE 1	392052.343	
722158.689	4294219.712	4509	25-Jun-15	BRIDGETON BOREHOLE 1	392053.099	1012
722157.587	4294220.096	4509	25-Jun-15	BRIDGETON BOREHOLE 1	392053.099	
722158.706	4294220	4651	25-Jun-15	BRIDGETON BOREHOLE 1	392054.1	1013
722157.589	4294220.428	4651	25-Jun-15	BRIDGETON BOREHOLE 1	392054.1	
722158.841	4294220.226	4296	25-Jun-15	BRIDGETON BOREHOLE 1	392054.872	1014
722157.784	4294220.593	4296	25-Jun-15	BRIDGETON BOREHOLE 1	392054.872	
722159.262	4294220.726	4224	25-Jun-15	BRIDGETON BOREHOLE 1	392056.095	1015
722158.257	4294221.119	4224	25-Jun-15	BRIDGETON BOREHOLE 1	392056.095	
722159.619	4294221.171	4078	25-Jun-15	BRIDGETON BOREHOLE 1	392057.208	1016
722158.648	4294221.631	4078	25-Jun-15	BRIDGETON BOREHOLE 1	392057.208	
722160.009	4294221.551	4221	25-Jun-15	BRIDGETON BOREHOLE 1	392058.315	1017
722159.057	4294221.973	4221	25-Jun-15	BRIDGETON BOREHOLE 1	392058.315	
722160.333	4294221.816	4354	25-Jun-15	BRIDGETON BOREHOLE 1	392059.036	1018
722159.385	4294222.231	4354	25-Jun-15	BRIDGETON BOREHOLE 1	392059.036	

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722160.726	4294222.196	4707	25-Jun-15	BRIDGETON BOREHOLE 1	392060.135	1019
722159.761	4294222.601	4707	25-Jun-15	BRIDGETON BOREHOLE 1	392060.135	
722161.14	4294222.644	4830	25-Jun-15	BRIDGETON BOREHOLE 1	392061.215	1020
722160.216	4294223.05	4830	25-Jun-15	BRIDGETON BOREHOLE 1	392061.215	
722161.482	4294223.063	4299	25-Jun-15	BRIDGETON BOREHOLE 1	392062.288	1021
722160.569	4294223.429	4299	25-Jun-15	BRIDGETON BOREHOLE 1	392062.288	
722161.621	4294223.389	4361	25-Jun-15	BRIDGETON BOREHOLE 1	392063.206	1022
722160.721	4294223.757	4361	25-Jun-15	BRIDGETON BOREHOLE 1	392063.206	
722161.375	4294223.593	5355	25-Jun-15	BRIDGETON BOREHOLE 1	392064.099	1023
722160.483	4294223.962	5355	25-Jun-15	BRIDGETON BOREHOLE 1	392064.099	
722160.8	4294223.461	4947	25-Jun-15	BRIDGETON BOREHOLE 1	392065.116	1024
722159.802	4294223.684	4947	25-Jun-15	BRIDGETON BOREHOLE 1	392065.116	
722160.404	4294223.088	4702	25-Jun-15	BRIDGETON BOREHOLE 1	392066.04	1025
722159.37	4294223.278	4702	25-Jun-15	BRIDGETON BOREHOLE 1	392066.04	
722159.988	4294222.752	4445	25-Jun-15	BRIDGETON BOREHOLE 1	392067.119	1026
722158.971	4294222.913	4445	25-Jun-15	BRIDGETON BOREHOLE 1	392067.119	
722159.643	4294222.454	4240	25-Jun-15	BRIDGETON BOREHOLE 1	392068.199	1027
722158.608	4294222.641	4240	25-Jun-15	BRIDGETON BOREHOLE 1	392068.199	
722159.389	4294222.22	4027	25-Jun-15	BRIDGETON BOREHOLE 1	392069.039	1028
722158.283	4294222.419	4027	25-Jun-15	BRIDGETON BOREHOLE 1	392069.039	
722158.983	4294221.827	3817	25-Jun-15	BRIDGETON BOREHOLE 1	392070.09	1029
722157.822	4294222.057	3817	25-Jun-15	BRIDGETON BOREHOLE 1	392070.09	
722158.507	4294221.328	4117	25-Jun-15	BRIDGETON BOREHOLE 1	392071.166	1030
722157.296	4294221.641	4117	25-Jun-15	BRIDGETON BOREHOLE 1	392071.166	
722158.148	4294220.887	4551	25-Jun-15	BRIDGETON BOREHOLE 1	392072.299	1031
722156.871	4294221.333	4551	25-Jun-15	BRIDGETON BOREHOLE 1	392072.299	
722157.916	4294220.674	4262	25-Jun-15	BRIDGETON BOREHOLE 1	392073.066	1032
722156.617	4294221.067	4262	25-Jun-15	BRIDGETON BOREHOLE 1	392073.066	
722157.692	4294220.839	4227	25-Jun-15	BRIDGETON BOREHOLE 1	392074.23	1033
722156.384	4294221.127	4227	25-Jun-15	BRIDGETON BOREHOLE 1	392074.23	
722157.778	4294221.071	4365	25-Jun-15	BRIDGETON BOREHOLE 1	392075.075	1034
722156.448	4294221.27	4365	25-Jun-15	BRIDGETON BOREHOLE 1	392075.075	
722158.036	4294221.305	4300	25-Jun-15	BRIDGETON BOREHOLE 1	392076.103	1035
722156.746	4294221.601	4300	25-Jun-15	BRIDGETON BOREHOLE 1	392076.103	
722158.268	4294221.569	4174	25-Jun-15	BRIDGETON BOREHOLE 1	392076.859	1036
722157.054	4294221.91	4174	25-Jun-15	BRIDGETON BOREHOLE 1	392076.859	
722158.863	4294222.122	4102	25-Jun-15	BRIDGETON BOREHOLE 1	392078.245	1037
722157.693	4294222.529	4102	25-Jun-15	BRIDGETON BOREHOLE 1	392078.245	
722159.228	4294222.493	3882	25-Jun-15	BRIDGETON BOREHOLE 1	392079.196	1038
722158.156	4294222.948	3882	25-Jun-15	BRIDGETON BOREHOLE 1	392079.196	
722159.561	4294222.827	4026	25-Jun-15	BRIDGETON BOREHOLE 1	392080.068	1039
722158.48	4294223.295	4026	25-Jun-15	BRIDGETON BOREHOLE 1	392080.068	
722159.821	4294223.192	4087	25-Jun-15	BRIDGETON BOREHOLE 1	392080.863	1040
722158.797	4294223.635	4087	25-Jun-15	BRIDGETON BOREHOLE 1	392080.863	
722160.268	4294223.802	4079	25-Jun-15	BRIDGETON BOREHOLE 1	392082.061	1041
722159.3	4294224.214	4079	25-Jun-15	BRIDGETON BOREHOLE 1	392082.061	
722160.366	4294224.403	4229	25-Jun-15	BRIDGETON BOREHOLE 1	392083.199	1042

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722159.422	4294224.797	4229	25-Jun-15	BRIDGETON BOREHOLE 1	392083.199	
722159.821	4294224.473	4674	25-Jun-15	BRIDGETON BOREHOLE 1	392084.34	1043
722158.856	4294224.82	4674	25-Jun-15	BRIDGETON BOREHOLE 1	392084.34	
722159.39	4294224.239	4706	25-Jun-15	BRIDGETON BOREHOLE 1	392085.214	1044
722158.395	4294224.508	4706	25-Jun-15	BRIDGETON BOREHOLE 1	392085.214	
722159.062	4294223.806	4200	25-Jun-15	BRIDGETON BOREHOLE 1	392086.275	1045
722158.086	4294224.074	4200	25-Jun-15	BRIDGETON BOREHOLE 1	392086.275	
722158.783	4294223.453	4132	25-Jun-15	BRIDGETON BOREHOLE 1	392087.097	1046
722157.752	4294223.735	4132	25-Jun-15	BRIDGETON BOREHOLE 1	392087.097	
722158.457	4294223.018	4032	25-Jun-15	BRIDGETON BOREHOLE 1	392088.021	1047
722157.38	4294223.423	4032	25-Jun-15	BRIDGETON BOREHOLE 1	392088.021	
722157.998	4294222.528	3744	25-Jun-15	BRIDGETON BOREHOLE 1	392089.111	1048
722156.793	4294223.019	3744	25-Jun-15	BRIDGETON BOREHOLE 1	392089.111	
722157.629	4294222.109	3982	25-Jun-15	BRIDGETON BOREHOLE 1	392090.077	1049
722156.401	4294222.63	3982	25-Jun-15	BRIDGETON BOREHOLE 1	392090.077	
722157.264	4294221.614	3974	25-Jun-15	BRIDGETON BOREHOLE 1	392091.156	1050
722155.993	4294222.187	3974	25-Jun-15	BRIDGETON BOREHOLE 1	392091.156	
722157.004	4294221.287	3953	25-Jun-15	BRIDGETON BOREHOLE 1	392092.005	1051
722155.669	4294221.851	3953	25-Jun-15	BRIDGETON BOREHOLE 1	392092.005	
722156.744	4294221.296	4166	25-Jun-15	BRIDGETON BOREHOLE 1	392093.102	1052
722155.421	4294221.759	4166	25-Jun-15	BRIDGETON BOREHOLE 1	392093.102	
722156.949	4294221.547	4488	25-Jun-15	BRIDGETON BOREHOLE 1	392094.199	1053
722155.586	4294221.852	4488	25-Jun-15	BRIDGETON BOREHOLE 1	392094.199	
722156.936	4294221.731	4662	25-Jun-15	BRIDGETON BOREHOLE 1	392095.014	1054
722155.757	4294222.01	4662	25-Jun-15	BRIDGETON BOREHOLE 1	392095.014	
722157.319	4294222.267	4932	25-Jun-15	BRIDGETON BOREHOLE 1	392096.113	1055
722156.154	4294222.591	4932	25-Jun-15	BRIDGETON BOREHOLE 1	392096.113	
722157.58	4294222.605	4987	25-Jun-15	BRIDGETON BOREHOLE 1	392096.908	1056
722156.5	4294222.955	4987	25-Jun-15	BRIDGETON BOREHOLE 1	392096.908	
722158.057	4294223.004	4807	25-Jun-15	BRIDGETON BOREHOLE 1	392098.097	1057
722156.993	4294223.377	4807	25-Jun-15	BRIDGETON BOREHOLE 1	392098.097	
722158.444	4294223.362	4586	25-Jun-15	BRIDGETON BOREHOLE 1	392099.106	1058
722157.46	4294223.739	4586	25-Jun-15	BRIDGETON BOREHOLE 1	392099.106	
722158.863	4294223.752	4627	25-Jun-15	BRIDGETON BOREHOLE 1	392100.229	1059
722157.939	4294224.113	4627	25-Jun-15	BRIDGETON BOREHOLE 1	392100.229	
722159.185	4294224.161	4598	25-Jun-15	BRIDGETON BOREHOLE 1	392101.114	1060
722158.299	4294224.503	4598	25-Jun-15	BRIDGETON BOREHOLE 1	392101.114	
722159.384	4294224.669	4461	25-Jun-15	BRIDGETON BOREHOLE 1	392102.105	1061
722158.55	4294224.984	4461	25-Jun-15	BRIDGETON BOREHOLE 1	392102.105	
722159.208	4294225.042	4287	25-Jun-15	BRIDGETON BOREHOLE 1	392102.879	1062
722158.399	4294225.293	4287	25-Jun-15	BRIDGETON BOREHOLE 1	392102.879	
722158.768	4294224.892	4661	25-Jun-15	BRIDGETON BOREHOLE 1	392103.961	1063
722157.93	4294225.087	4661	25-Jun-15	BRIDGETON BOREHOLE 1	392103.961	
722158.29	4294224.441	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392105.178	1064
722157.372	4294224.603	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392105.178	
722158.06	4294224.101	4683	25-Jun-15	BRIDGETON BOREHOLE 1	392106.086	1065
722157.081	4294224.279	4683	25-Jun-15	BRIDGETON BOREHOLE 1	392106.086	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722157.872	4294223.814	4591	25-Jun-15	BRIDGETON BOREHOLE 1	392106.955	1066
722156.795	4294223.984	4591	25-Jun-15	BRIDGETON BOREHOLE 1	392106.955	
722157.565	4294223.46	4660	25-Jun-15	BRIDGETON BOREHOLE 1	392108.17	1067
722156.358	4294223.781	4660	25-Jun-15	BRIDGETON BOREHOLE 1	392108.17	
722157.224	4294223.191	4916	25-Jun-15	BRIDGETON BOREHOLE 1	392109.097	1068
722155.939	4294223.54	4916	25-Jun-15	BRIDGETON BOREHOLE 1	392109.097	
722156.76	4294222.899	4573	25-Jun-15	BRIDGETON BOREHOLE 1	392110.194	1069
722155.505	4294223.158	4573	25-Jun-15	BRIDGETON BOREHOLE 1	392110.194	
722156.388	4294222.571	4305	25-Jun-15	BRIDGETON BOREHOLE 1	392111.099	1070
722155.18	4294222.789	4305	25-Jun-15	BRIDGETON BOREHOLE 1	392111.099	
722156.064	4294222.283	5121	25-Jun-15	BRIDGETON BOREHOLE 1	392112.094	1071
722154.865	4294222.46	5121	25-Jun-15	BRIDGETON BOREHOLE 1	392112.094	
722155.889	4294222.156	5228	25-Jun-15	BRIDGETON BOREHOLE 1	392112.848	1072
722154.739	4294222.28	5228	25-Jun-15	BRIDGETON BOREHOLE 1	392112.848	
722155.671	4294222.349	4815	25-Jun-15	BRIDGETON BOREHOLE 1	392114.073	1073
722154.583	4294222.54	4815	25-Jun-15	BRIDGETON BOREHOLE 1	392114.073	
722155.831	4294222.847	3999	25-Jun-15	BRIDGETON BOREHOLE 1	392115.197	1074
722154.83	4294223.058	3999	25-Jun-15	BRIDGETON BOREHOLE 1	392115.197	
722156.034	4294223.176	3873	25-Jun-15	BRIDGETON BOREHOLE 1	392116.1	1075
722155.188	4294223.297	3873	25-Jun-15	BRIDGETON BOREHOLE 1	392116.1	
722156.352	4294223.493	4206	25-Jun-15	BRIDGETON BOREHOLE 1	392117.103	1076
722155.588	4294223.723	4206	25-Jun-15	BRIDGETON BOREHOLE 1	392117.103	
722156.762	4294223.92	4406	25-Jun-15	BRIDGETON BOREHOLE 1	392118.235	1077
722156.065	4294224.214	4406	25-Jun-15	BRIDGETON BOREHOLE 1	392118.235	
722156.998	4294224.232	4286	25-Jun-15	BRIDGETON BOREHOLE 1	392119.029	1078
722156.328	4294224.506	4286	25-Jun-15	BRIDGETON BOREHOLE 1	392119.029	
722157.376	4294224.618	4143	25-Jun-15	BRIDGETON BOREHOLE 1	392120.138	1079
722156.716	4294224.875	4143	25-Jun-15	BRIDGETON BOREHOLE 1	392120.138	
722157.744	4294225.006	4235	25-Jun-15	BRIDGETON BOREHOLE 1	392121.205	1080
722157.075	4294225.27	4235	25-Jun-15	BRIDGETON BOREHOLE 1	392121.205	
722157.952	4294225.261	4175	25-Jun-15	BRIDGETON BOREHOLE 1	392122.279	1081
722157.208	4294225.513	4175	25-Jun-15	BRIDGETON BOREHOLE 1	392122.279	
722158.172	4294225.403	4246	25-Jun-15	BRIDGETON BOREHOLE 1	392123.035	1082
722157.403	4294225.672	4246	25-Jun-15	BRIDGETON BOREHOLE 1	392123.035	
722158.238	4294225.537	4211	25-Jun-15	BRIDGETON BOREHOLE 1	392123.829	1083
722157.519	4294225.875	4211	25-Jun-15	BRIDGETON BOREHOLE 1	392123.829	
722158.256	4294225.759	4161	25-Jun-15	BRIDGETON BOREHOLE 1	392125.072	1084
722157.591	4294226.151	4161	25-Jun-15	BRIDGETON BOREHOLE 1	392125.072	
722157.788	4294225.919	4335	25-Jun-15	BRIDGETON BOREHOLE 1	392126.202	1085
722157.102	4294226.277	4335	25-Jun-15	BRIDGETON BOREHOLE 1	392126.202	
722157.233	4294225.754	5513	25-Jun-15	BRIDGETON BOREHOLE 1	392127.025	1086
722156.466	4294225.981	5513	25-Jun-15	BRIDGETON BOREHOLE 1	392127.025	
722156.731	4294225.273	4751	25-Jun-15	BRIDGETON BOREHOLE 1	392128.076	1087
722155.843	4294225.483	4751	25-Jun-15	BRIDGETON BOREHOLE 1	392128.076	
722156.38	4294224.966	4765	25-Jun-15	BRIDGETON BOREHOLE 1	392129.039	1088
722155.556	4294225.211	4765	25-Jun-15	BRIDGETON BOREHOLE 1	392129.039	
722155.971	4294224.579	4488	25-Jun-15	BRIDGETON BOREHOLE 1	392130.15	1089

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722155.123	4294224.848	4488	25-Jun-15	BRIDGETON BOREHOLE 1	392130.15	
722155.714	4294224.29	4422	25-Jun-15	BRIDGETON BOREHOLE 1	392130.925	1090
722154.838	4294224.556	4422	25-Jun-15	BRIDGETON BOREHOLE 1	392130.925	
722155.34	4294223.957	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392132.084	1091
722154.506	4294224.268	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392132.084	
722155.039	4294223.671	4840	25-Jun-15	BRIDGETON BOREHOLE 1	392133.108	1092
722154.206	4294223.967	4840	25-Jun-15	BRIDGETON BOREHOLE 1	392133.108	
722154.645	4294223.43	4732	25-Jun-15	BRIDGETON BOREHOLE 1	392134.192	1093
722153.97	4294223.735	4732	25-Jun-15	BRIDGETON BOREHOLE 1	392134.192	
722154.353	4294223.555	4739	25-Jun-15	BRIDGETON BOREHOLE 1	392135.024	1094
722153.79	4294223.805	4739	25-Jun-15	BRIDGETON BOREHOLE 1	392135.024	
722154.895	4294223.938	4653	25-Jun-15	BRIDGETON BOREHOLE 1	392136.319	1095
722153.694	4294224.251	4653	25-Jun-15	BRIDGETON BOREHOLE 1	392136.319	
722154.929	4294223.931	5122	25-Jun-15	BRIDGETON BOREHOLE 1	392137.103	1096
722153.818	4294224.568	5122	25-Jun-15	BRIDGETON BOREHOLE 1	392137.103	
722155.178	4294224.427	4884	25-Jun-15	BRIDGETON BOREHOLE 1	392138.107	1097
722154.07	4294225.06	4884	25-Jun-15	BRIDGETON BOREHOLE 1	392138.107	
722155.593	4294224.935	4914	25-Jun-15	BRIDGETON BOREHOLE 1	392139.166	1098
722154.48	4294225.576	4914	25-Jun-15	BRIDGETON BOREHOLE 1	392139.166	
722156.033	4294225.273	4632	25-Jun-15	BRIDGETON BOREHOLE 1	392140.261	1099
722155.018	4294225.999	4632	25-Jun-15	BRIDGETON BOREHOLE 1	392140.261	
722156.556	4294225.552	4293	25-Jun-15	BRIDGETON BOREHOLE 1	392141.159	1100
722155.551	4294226.256	4293	25-Jun-15	BRIDGETON BOREHOLE 1	392141.159	
722157.283	4294225.986	4230	25-Jun-15	BRIDGETON BOREHOLE 1	392142.206	1101
722156.204	4294226.491	4230	25-Jun-15	BRIDGETON BOREHOLE 1	392142.206	
722157.527	4294226.541	4434	25-Jun-15	BRIDGETON BOREHOLE 1	392142.978	1102
722156.613	4294226.729	4434	25-Jun-15	BRIDGETON BOREHOLE 1	392142.978	
722157.507	4294226.665	4421	25-Jun-15	BRIDGETON BOREHOLE 1	392144.093	1103
722156.696	4294227.16	4421	25-Jun-15	BRIDGETON BOREHOLE 1	392144.093	
722156.997	4294227.194	4347	25-Jun-15	BRIDGETON BOREHOLE 1	392145.089	1104
722156.341	4294227.135	4347	25-Jun-15	BRIDGETON BOREHOLE 1	392145.089	
722156.41	4294226.822	4275	25-Jun-15	BRIDGETON BOREHOLE 1	392146.341	1105
722155.771	4294226.862	4275	25-Jun-15	BRIDGETON BOREHOLE 1	392146.341	
722156.09	4294226.466	4354	25-Jun-15	BRIDGETON BOREHOLE 1	392147.199	1106
722155.408	4294226.671	4354	25-Jun-15	BRIDGETON BOREHOLE 1	392147.199	
722155.423	4294225.647	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392148.108	1107
722154.946	4294226.337	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392148.108	
722155.504	4294225.888	4390	25-Jun-15	BRIDGETON BOREHOLE 1	392149.047	1108
722154.572	4294226.059	4390	25-Jun-15	BRIDGETON BOREHOLE 1	392149.047	
722155.085	4294225.467	4509	25-Jun-15	BRIDGETON BOREHOLE 1	392150.075	1109
722154.118	4294225.698	4509	25-Jun-15	BRIDGETON BOREHOLE 1	392150.075	
722154.482	4294224.862	4029	25-Jun-15	BRIDGETON BOREHOLE 1	392150.884	1110
722153.744	4294225.4	4029	25-Jun-15	BRIDGETON BOREHOLE 1	392150.884	
722153.936	4294224.508	4291	25-Jun-15	BRIDGETON BOREHOLE 1	392152.125	1111
722153.203	4294225.101	4291	25-Jun-15	BRIDGETON BOREHOLE 1	392152.125	
722153.633	4294224.44	4619	25-Jun-15	BRIDGETON BOREHOLE 1	392152.892	1112
722152.871	4294224.913	4619	25-Jun-15	BRIDGETON BOREHOLE 1	392152.892	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722153.491	4294224.696	4803	25-Jun-15	BRIDGETON BOREHOLE 1	392154.22	1113
722152.959	4294224.969	4803	25-Jun-15	BRIDGETON BOREHOLE 1	392154.22	
722153.993	4294225.242	4719	25-Jun-15	BRIDGETON BOREHOLE 1	392155.107	1114
722153.213	4294225.15	4719	25-Jun-15	BRIDGETON BOREHOLE 1	392155.107	
722154.357	4294225.734	4072	25-Jun-15	BRIDGETON BOREHOLE 1	392156.194	1115
722153.302	4294225.923	4072	25-Jun-15	BRIDGETON BOREHOLE 1	392156.194	
722154.631	4294226.089	3805	25-Jun-15	BRIDGETON BOREHOLE 1	392156.95	1116
722153.513	4294226.408	3805	25-Jun-15	BRIDGETON BOREHOLE 1	392156.95	
722155.302	4294226.486	3972	25-Jun-15	BRIDGETON BOREHOLE 1	392158.121	1117
722153.962	4294227.036	3972	25-Jun-15	BRIDGETON BOREHOLE 1	392158.121	
722155.524	4294226.872	3905	25-Jun-15	BRIDGETON BOREHOLE 1	392158.977	1118
722154.384	4294227.351	3905	25-Jun-15	BRIDGETON BOREHOLE 1	392158.977	
722155.971	4294227.131	3975	25-Jun-15	BRIDGETON BOREHOLE 1	392160.134	1119
722154.906	4294227.868	3975	25-Jun-15	BRIDGETON BOREHOLE 1	392160.134	
722156.2	4294227.671	4040	25-Jun-15	BRIDGETON BOREHOLE 1	392161.098	1120
722155.253	4294228.212	4040	25-Jun-15	BRIDGETON BOREHOLE 1	392161.098	
722156.161	4294228.182	4282	25-Jun-15	BRIDGETON BOREHOLE 1	392162.114	1121
722155.371	4294228.712	4282	25-Jun-15	BRIDGETON BOREHOLE 1	392162.114	
722155.759	4294228.399	4869	25-Jun-15	BRIDGETON BOREHOLE 1	392163.167	1122
722154.955	4294228.874	4869	25-Jun-15	BRIDGETON BOREHOLE 1	392163.167	
722155.491	4294228.193	4763	25-Jun-15	BRIDGETON BOREHOLE 1	392164.162	1123
722154.666	4294228.626	4763	25-Jun-15	BRIDGETON BOREHOLE 1	392164.162	
722155.224	4294227.769	4427	25-Jun-15	BRIDGETON BOREHOLE 1	392165.11	1124
722154.351	4294228.194	4427	25-Jun-15	BRIDGETON BOREHOLE 1	392165.11	
722154.863	4294227.358	4005	25-Jun-15	BRIDGETON BOREHOLE 1	392166.108	1125
722154.006	4294227.823	4005	25-Jun-15	BRIDGETON BOREHOLE 1	392166.108	
722154.541	4294227.025	4168	25-Jun-15	BRIDGETON BOREHOLE 1	392166.866	1126
722153.653	4294227.512	4168	25-Jun-15	BRIDGETON BOREHOLE 1	392166.866	
722153.587	4294226.23	4369	25-Jun-15	BRIDGETON BOREHOLE 1	392168.137	1127
722153.097	4294227.104	4369	25-Jun-15	BRIDGETON BOREHOLE 1	392168.137	
722153.232	4294225.866	4175	25-Jun-15	BRIDGETON BOREHOLE 1	392168.965	1128
722152.68	4294226.749	4175	25-Jun-15	BRIDGETON BOREHOLE 1	392168.965	
722152.853	4294225.57	3699	25-Jun-15	BRIDGETON BOREHOLE 1	392170.048	1129
722152.248	4294226.448	3699	25-Jun-15	BRIDGETON BOREHOLE 1	392170.048	
722152.416	4294225.516	3859	25-Jun-15	BRIDGETON BOREHOLE 1	392171.123	1130
722151.82	4294226.21	3859	25-Jun-15	BRIDGETON BOREHOLE 1	392171.123	
722152.37	4294225.789	4286	25-Jun-15	BRIDGETON BOREHOLE 1	392172.178	1131
722151.682	4294226.424	4286	25-Jun-15	BRIDGETON BOREHOLE 1	392172.178	
722152.615	4294226.343	4586	25-Jun-15	BRIDGETON BOREHOLE 1	392173.017	1132
722151.609	4294226.929	4586	25-Jun-15	BRIDGETON BOREHOLE 1	392173.017	
722152.767	4294226.51	4492	25-Jun-15	BRIDGETON BOREHOLE 1	392174.096	1133
722151.836	4294227.437	4492	25-Jun-15	BRIDGETON BOREHOLE 1	392174.096	
722153.112	4294226.751	4389	25-Jun-15	BRIDGETON BOREHOLE 1	392175.204	1134
722152.188	4294227.824	4389	25-Jun-15	BRIDGETON BOREHOLE 1	392175.204	
722153.371	4294226.97	3923	25-Jun-15	BRIDGETON BOREHOLE 1	392176.089	1135
722152.5	4294228.024	3923	25-Jun-15	BRIDGETON BOREHOLE 1	392176.089	
722153.662	4294227.238	4087	25-Jun-15	BRIDGETON BOREHOLE 1	392177.094	1136

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722152.762	4294228.309	4087	25-Jun-15	BRIDGETON BOREHOLE 1	392177.094	
722154.003	4294227.582	4369	25-Jun-15	BRIDGETON BOREHOLE 1	392178.034	1137
722153.161	4294228.542	4369	25-Jun-15	BRIDGETON BOREHOLE 1	392178.034	
722154.457	4294228.018	4032	25-Jun-15	BRIDGETON BOREHOLE 1	392179.09	1138
722153.67	4294228.914	4032	25-Jun-15	BRIDGETON BOREHOLE 1	392179.09	
722154.533	4294228.563	4631	25-Jun-15	BRIDGETON BOREHOLE 1	392180.163	1139
722153.766	4294229.41	4631	25-Jun-15	BRIDGETON BOREHOLE 1	392180.163	
722154.201	4294228.693	4652	25-Jun-15	BRIDGETON BOREHOLE 1	392181.28	1140
722153.541	4294229.565	4652	25-Jun-15	BRIDGETON BOREHOLE 1	392181.28	
722153.828	4294228.415	4417	25-Jun-15	BRIDGETON BOREHOLE 1	392182.054	1141
722153.152	4294229.174	4417	25-Jun-15	BRIDGETON BOREHOLE 1	392182.054	
722153.43	4294227.956	3830	25-Jun-15	BRIDGETON BOREHOLE 1	392183.086	1142
722152.752	4294228.639	3830	25-Jun-15	BRIDGETON BOREHOLE 1	392183.086	
722153.041	4294227.517	4134	25-Jun-15	BRIDGETON BOREHOLE 1	392184.188	1143
722152.311	4294228.217	4134	25-Jun-15	BRIDGETON BOREHOLE 1	392184.188	
722152.721	4294227.283	3968	25-Jun-15	BRIDGETON BOREHOLE 1	392184.943	1144
722151.922	4294228.068	3968	25-Jun-15	BRIDGETON BOREHOLE 1	392184.943	
722152.215	4294226.916	3995	25-Jun-15	BRIDGETON BOREHOLE 1	392186.02	1145
722151.403	4294227.714	3995	25-Jun-15	BRIDGETON BOREHOLE 1	392186.02	
722151.748	4294226.616	3892	25-Jun-15	BRIDGETON BOREHOLE 1	392187.15	1146
722150.926	4294227.456	3892	25-Jun-15	BRIDGETON BOREHOLE 1	392187.15	
722151.443	4294226.669	4772	25-Jun-15	BRIDGETON BOREHOLE 1	392188.095	1147
722150.706	4294227.397	4772	25-Jun-15	BRIDGETON BOREHOLE 1	392188.095	
722151.286	4294226.85	4732	25-Jun-15	BRIDGETON BOREHOLE 1	392188.851	1148
722150.637	4294227.552	4732	25-Jun-15	BRIDGETON BOREHOLE 1	392188.851	
722151.854	4294226.93	4394	25-Jun-15	BRIDGETON BOREHOLE 1	392190.106	1149
722150.759	4294227.819	4394	25-Jun-15	BRIDGETON BOREHOLE 1	392190.106	
722152.224	4294227.337	4579	25-Jun-15	BRIDGETON BOREHOLE 1	392191.115	1150
722151.113	4294228.252	4579	25-Jun-15	BRIDGETON BOREHOLE 1	392191.115	
722152.496	4294227.627	4586	25-Jun-15	BRIDGETON BOREHOLE 1	392192.037	1151
722151.454	4294228.659	4586	25-Jun-15	BRIDGETON BOREHOLE 1	392192.037	
722152.728	4294227.895	4484	25-Jun-15	BRIDGETON BOREHOLE 1	392192.809	1152
722151.7	4294228.935	4484	25-Jun-15	BRIDGETON BOREHOLE 1	392192.809	
722153.152	4294228.346	4150	25-Jun-15	BRIDGETON BOREHOLE 1	392194.108	1153
722152.183	4294229.467	4150	25-Jun-15	BRIDGETON BOREHOLE 1	392194.108	
722153.446	4294228.762	4487	25-Jun-15	BRIDGETON BOREHOLE 1	392195.036	1154
722152.628	4294229.778	4487	25-Jun-15	BRIDGETON BOREHOLE 1	392195.036	
722153.734	4294229.166	4278	25-Jun-15	BRIDGETON BOREHOLE 1	392196.188	1155
722152.937	4294230.106	4278	25-Jun-15	BRIDGETON BOREHOLE 1	392196.188	
722153.746	4294229.487	4124	25-Jun-15	BRIDGETON BOREHOLE 1	392197.086	1156
722153.08	4294230.412	4124	25-Jun-15	BRIDGETON BOREHOLE 1	392197.086	
722153.236	4294229.495	4277	25-Jun-15	BRIDGETON BOREHOLE 1	392198.141	1157
722152.595	4294230.183	4277	25-Jun-15	BRIDGETON BOREHOLE 1	392198.141	
722152.889	4294229.305	4573	25-Jun-15	BRIDGETON BOREHOLE 1	392199.045	1158
722152.151	4294229.942	4573	25-Jun-15	BRIDGETON BOREHOLE 1	392199.045	
722152.447	4294228.879	4762	25-Jun-15	BRIDGETON BOREHOLE 1	392200.088	1159
722151.701	4294229.545	4762	25-Jun-15	BRIDGETON BOREHOLE 1	392200.088	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722152.236	4294228.59	4501	25-Jun-15	BRIDGETON BOREHOLE 1	392200.844	1160
722151.333	4294229.348	4501	25-Jun-15	BRIDGETON BOREHOLE 1	392200.844	
722151.845	4294228.161	4729	25-Jun-15	BRIDGETON BOREHOLE 1	392202.002	1161
722150.91	4294228.928	4729	25-Jun-15	BRIDGETON BOREHOLE 1	392202.002	
722151.497	4294227.838	4460	25-Jun-15	BRIDGETON BOREHOLE 1	392202.794	1162
722150.568	4294228.663	4460	25-Jun-15	BRIDGETON BOREHOLE 1	392202.794	
722150.895	4294227.485	4391	25-Jun-15	BRIDGETON BOREHOLE 1	392204.2	1163
722150.039	4294228.291	4391	25-Jun-15	BRIDGETON BOREHOLE 1	392204.2	
722150.697	4294227.459	4195	25-Jun-15	BRIDGETON BOREHOLE 1	392205.092	1164
722149.82	4294228.204	4195	25-Jun-15	BRIDGETON BOREHOLE 1	392205.092	
722150.618	4294227.728	4174	25-Jun-15	BRIDGETON BOREHOLE 1	392206.165	1165
722149.56	4294228.394	4174	25-Jun-15	BRIDGETON BOREHOLE 1	392206.165	
722150.712	4294227.939	4575	25-Jun-15	BRIDGETON BOREHOLE 1	392207.179	1166
722149.637	4294228.622	4575	25-Jun-15	BRIDGETON BOREHOLE 1	392207.179	
722150.817	4294228.178	4299	25-Jun-15	BRIDGETON BOREHOLE 1	392208.095	1167
722149.839	4294228.873	4299	25-Jun-15	BRIDGETON BOREHOLE 1	392208.095	
722151.161	4294228.606	4308	25-Jun-15	BRIDGETON BOREHOLE 1	392209.093	1168
722150.361	4294229.296	4308	25-Jun-15	BRIDGETON BOREHOLE 1	392209.093	
722151.699	4294228.903	4305	25-Jun-15	BRIDGETON BOREHOLE 1	392210.101	1169
722150.742	4294229.62	4305	25-Jun-15	BRIDGETON BOREHOLE 1	392210.101	
722152.141	4294229.387	4507	25-Jun-15	BRIDGETON BOREHOLE 1	392211.041	1170
722151.178	4294229.998	4507	25-Jun-15	BRIDGETON BOREHOLE 1	392211.041	
722152.694	4294229.693	4747	25-Jun-15	BRIDGETON BOREHOLE 1	392212.15	1171
722151.479	4294230.335	4747	25-Jun-15	BRIDGETON BOREHOLE 1	392212.15	
722153.051	4294229.891	4598	25-Jun-15	BRIDGETON BOREHOLE 1	392212.906	1172
722151.762	4294230.614	4598	25-Jun-15	BRIDGETON BOREHOLE 1	392212.906	
722152.803	4294230.44	4536	25-Jun-15	BRIDGETON BOREHOLE 1	392214.026	1173
722151.985	4294231.086	4536	25-Jun-15	BRIDGETON BOREHOLE 1	392214.026	
722152.44	4294230.319	4629	25-Jun-15	BRIDGETON BOREHOLE 1	392215.099	1174
722151.37	4294230.983	4629	25-Jun-15	BRIDGETON BOREHOLE 1	392215.099	
722151.895	4294230.031	4261	25-Jun-15	BRIDGETON BOREHOLE 1	392216.145	1175
722150.907	4294230.673	4261	25-Jun-15	BRIDGETON BOREHOLE 1	392216.145	
722151.487	4294229.869	4253	25-Jun-15	BRIDGETON BOREHOLE 1	392217.038	1176
722150.553	4294230.349	4253	25-Jun-15	BRIDGETON BOREHOLE 1	392217.038	
722150.874	4294229.451	4260	25-Jun-15	BRIDGETON BOREHOLE 1	392218.098	1177
722150.105	4294230.047	4260	25-Jun-15	BRIDGETON BOREHOLE 1	392218.098	
722150.68	4294229.24	4037	25-Jun-15	BRIDGETON BOREHOLE 1	392218.853	1178
722149.786	4294229.808	4037	25-Jun-15	BRIDGETON BOREHOLE 1	392218.853	
722150.273	4294228.708	4266	25-Jun-15	BRIDGETON BOREHOLE 1	392220.145	1179
722149.242	4294229.245	4266	25-Jun-15	BRIDGETON BOREHOLE 1	392220.145	
722150.531	4294228.202	4499	25-Jun-15	BRIDGETON BOREHOLE 1	392221.105	1180
722148.959	4294228.973	4499	25-Jun-15	BRIDGETON BOREHOLE 1	392221.105	
722149.7	4294228.646	4241	25-Jun-15	BRIDGETON BOREHOLE 1	392222.191	1181
722148.705	4294229.042	4241	25-Jun-15	BRIDGETON BOREHOLE 1	392222.191	
722149.874	4294228.877	4238	25-Jun-15	BRIDGETON BOREHOLE 1	392223.125	1182
722148.715	4294229.268	4238	25-Jun-15	BRIDGETON BOREHOLE 1	392223.125	
722150.158	4294229.254	4184	25-Jun-15	BRIDGETON BOREHOLE 1	392224.093	1183

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722148.876	4294229.691	4184	25-Jun-15	BRIDGETON BOREHOLE 1	392224.093	
722150.611	4294229.557	4438	25-Jun-15	BRIDGETON BOREHOLE 1	392224.892	1184
722149.389	4294230.039	4438	25-Jun-15	BRIDGETON BOREHOLE 1	392224.892	
722151.069	4294230.04	4259	25-Jun-15	BRIDGETON BOREHOLE 1	392226.092	1185
722149.928	4294230.394	4259	25-Jun-15	BRIDGETON BOREHOLE 1	392226.092	
722151.389	4294230.255	4450	25-Jun-15	BRIDGETON BOREHOLE 1	392227.043	1186
722150.292	4294230.684	4450	25-Jun-15	BRIDGETON BOREHOLE 1	392227.043	
722151.712	4294230.67	4498	25-Jun-15	BRIDGETON BOREHOLE 1	392228.174	1187
722150.697	4294230.955	4498	25-Jun-15	BRIDGETON BOREHOLE 1	392228.174	
722151.804	4294230.933	4518	25-Jun-15	BRIDGETON BOREHOLE 1	392229.041	1188
722150.926	4294231.219	4518	25-Jun-15	BRIDGETON BOREHOLE 1	392229.041	
722151.761	4294231.277	4746	25-Jun-15	BRIDGETON BOREHOLE 1	392230.124	1189
722150.972	4294231.501	4746	25-Jun-15	BRIDGETON BOREHOLE 1	392230.124	
722151.432	4294231.205	4447	25-Jun-15	BRIDGETON BOREHOLE 1	392231.274	1190
722150.71	4294231.34	4447	25-Jun-15	BRIDGETON BOREHOLE 1	392231.274	
722151.107	4294230.976	4459	25-Jun-15	BRIDGETON BOREHOLE 1	392232.01	1191
722150.382	4294231.081	4459	25-Jun-15	BRIDGETON BOREHOLE 1	392232.01	
722150.581	4294230.659	4458	25-Jun-15	BRIDGETON BOREHOLE 1	392233.122	1192
722149.92	4294230.753	4458	25-Jun-15	BRIDGETON BOREHOLE 1	392233.122	
722150.053	4294230.177	4585	25-Jun-15	BRIDGETON BOREHOLE 1	392234.263	1193
722149.345	4294230.413	4585	25-Jun-15	BRIDGETON BOREHOLE 1	392234.263	
722149.809	4294229.86	4071	25-Jun-15	BRIDGETON BOREHOLE 1	392235.065	1194
722149.034	4294230.199	4071	25-Jun-15	BRIDGETON BOREHOLE 1	392235.065	
722149.34	4294229.446	4473	25-Jun-15	BRIDGETON BOREHOLE 1	392236.25	1195
722148.523	4294229.824	4473	25-Jun-15	BRIDGETON BOREHOLE 1	392236.25	
722149.011	4294229.183	4376	25-Jun-15	BRIDGETON BOREHOLE 1	392237.106	1196
722148.222	4294229.535	4376	25-Jun-15	BRIDGETON BOREHOLE 1	392237.106	
722148.745	4294229.193	4989	25-Jun-15	BRIDGETON BOREHOLE 1	392238.137	1197
722147.966	4294229.376	4989	25-Jun-15	BRIDGETON BOREHOLE 1	392238.137	
722148.756	4294229.362	5018	25-Jun-15	BRIDGETON BOREHOLE 1	392238.754	1198
722148.001	4294229.386	5018	25-Jun-15	BRIDGETON BOREHOLE 1	392238.754	
722148.937	4294229.561	5050	25-Jun-15	BRIDGETON BOREHOLE 1	392240.046	1199
722147.916	4294229.354	5050	25-Jun-15	BRIDGETON BOREHOLE 1	392240.046	
722149.384	4294230.061	4896	25-Jun-15	BRIDGETON BOREHOLE 1	392240.855	1200
722148.109	4294229.705	4896	25-Jun-15	BRIDGETON BOREHOLE 1	392240.855	
722149.594	4294230.399	4771	25-Jun-15	BRIDGETON BOREHOLE 1	392241.986	1201
722148.527	4294230.1	4771	25-Jun-15	BRIDGETON BOREHOLE 1	392241.986	
722149.76	4294230.674	4791	25-Jun-15	BRIDGETON BOREHOLE 1	392242.801	1202
722148.709	4294230.537	4791	25-Jun-15	BRIDGETON BOREHOLE 1	392242.801	
722150.483	4294231.023	4120	25-Jun-15	BRIDGETON BOREHOLE 1	392244.177	1203
722149.261	4294231.122	4120	25-Jun-15	BRIDGETON BOREHOLE 1	392244.177	
722151.286	4294231.245	4155	25-Jun-15	BRIDGETON BOREHOLE 1	392245.007	1204
722149.742	4294231.494	4155	25-Jun-15	BRIDGETON BOREHOLE 1	392245.007	
722151.053	4294231.754	4542	25-Jun-15	BRIDGETON BOREHOLE 1	392246.149	1205
722150.207	4294231.802	4542	25-Jun-15	BRIDGETON BOREHOLE 1	392246.149	
722151.075	4294232.414	4527	25-Jun-15	BRIDGETON BOREHOLE 1	392247.057	1206
722150.411	4294232.193	4527	25-Jun-15	BRIDGETON BOREHOLE 1	392247.057	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722150.974	4294232.312	4444	25-Jun-15	BRIDGETON BOREHOLE 1	392248.125	1207
722150.252	4294232.351	4444	25-Jun-15	BRIDGETON BOREHOLE 1	392248.125	
722151.084	4294232.011	4457	25-Jun-15	BRIDGETON BOREHOLE 1	392248.901	1208
722149.797	4294232.343	4457	25-Jun-15	BRIDGETON BOREHOLE 1	392248.901	
722150.34	4294231.753	4659	25-Jun-15	BRIDGETON BOREHOLE 1	392250.104	1209
722149.256	4294231.867	4659	25-Jun-15	BRIDGETON BOREHOLE 1	392250.104	
722149.739	4294231.259	4436	25-Jun-15	BRIDGETON BOREHOLE 1	392251.058	1210
722148.831	4294231.357	4436	25-Jun-15	BRIDGETON BOREHOLE 1	392251.058	
722149.44	4294230.944	4602	25-Jun-15	BRIDGETON BOREHOLE 1	392252.034	1211
722148.483	4294230.963	4602	25-Jun-15	BRIDGETON BOREHOLE 1	392252.034	
722149.06	4294230.659	4051	25-Jun-15	BRIDGETON BOREHOLE 1	392253.034	1212
722148.118	4294230.648	4051	25-Jun-15	BRIDGETON BOREHOLE 1	392253.034	
722148.645	4294230.235	4167	25-Jun-15	BRIDGETON BOREHOLE 1	392254.099	1213
722147.657	4294230.328	4167	25-Jun-15	BRIDGETON BOREHOLE 1	392254.099	
722148.304	4294230.025	4054	25-Jun-15	BRIDGETON BOREHOLE 1	392255.091	1214
722147.32	4294230.188	4054	25-Jun-15	BRIDGETON BOREHOLE 1	392255.091	
722148.12	4294230.24	4348	25-Jun-15	BRIDGETON BOREHOLE 1	392256.337	1215
722147.167	4294230.329	4348	25-Jun-15	BRIDGETON BOREHOLE 1	392256.337	
722148.302	4294230.436	4201	25-Jun-15	BRIDGETON BOREHOLE 1	392257.092	1216
722147.172	4294230.505	4201	25-Jun-15	BRIDGETON BOREHOLE 1	392257.092	
722148.241	4294230.614	4343	25-Jun-15	BRIDGETON BOREHOLE 1	392258.038	1217
722147.11	4294230.865	4343	25-Jun-15	BRIDGETON BOREHOLE 1	392258.038	
722148.411	4294230.911	4085	25-Jun-15	BRIDGETON BOREHOLE 1	392258.822	1218
722147.272	4294231.197	4085	25-Jun-15	BRIDGETON BOREHOLE 1	392258.822	
722148.885	4294231.312	4233	25-Jun-15	BRIDGETON BOREHOLE 1	392259.878	1219
722147.735	4294231.498	4233	25-Jun-15	BRIDGETON BOREHOLE 1	392259.878	
722149.452	4294231.734	4125	25-Jun-15	BRIDGETON BOREHOLE 1	392261.036	1220
722148.319	4294231.925	4125	25-Jun-15	BRIDGETON BOREHOLE 1	392261.036	
722149.939	4294232.1	4458	25-Jun-15	BRIDGETON BOREHOLE 1	392262.091	1221
722148.877	4294232.232	4458	25-Jun-15	BRIDGETON BOREHOLE 1	392262.091	
722150.262	4294232.325	4322	25-Jun-15	BRIDGETON BOREHOLE 1	392262.846	1222
722149.263	4294232.423	4322	25-Jun-15	BRIDGETON BOREHOLE 1	392262.846	
722150.626	4294232.539	4464	25-Jun-15	BRIDGETON BOREHOLE 1	392264.246	1223
722149.604	4294232.716	4464	25-Jun-15	BRIDGETON BOREHOLE 1	392264.246	
722150.631	4294232.574	4708	25-Jun-15	BRIDGETON BOREHOLE 1	392265.043	1224
722149.666	4294232.834	4708	25-Jun-15	BRIDGETON BOREHOLE 1	392265.043	
722150.618	4294232.573	4666	25-Jun-15	BRIDGETON BOREHOLE 1	392266.003	1225
722149.719	4294232.874	4666	25-Jun-15	BRIDGETON BOREHOLE 1	392266.003	
722150.599	4294232.591	4222	25-Jun-15	BRIDGETON BOREHOLE 1	392266.758	1226
722149.78	4294232.926	4222	25-Jun-15	BRIDGETON BOREHOLE 1	392266.758	
722150.598	4294232.635	4317	25-Jun-15	BRIDGETON BOREHOLE 1	392268.307	1227
722149.877	4294232.989	4317	25-Jun-15	BRIDGETON BOREHOLE 1	392268.307	
722150.598	4294232.641	4303	25-Jun-15	BRIDGETON BOREHOLE 1	392269.018	1228
722149.895	4294233.03	4303	25-Jun-15	BRIDGETON BOREHOLE 1	392269.018	
722150.635	4294232.565	4655	25-Jun-15	BRIDGETON BOREHOLE 1	392270.196	1229
722149.954	4294232.995	4655	25-Jun-15	BRIDGETON BOREHOLE 1	392270.196	
722150.51	4294232.627	4456	25-Jun-15	BRIDGETON BOREHOLE 1	392270.967	1230

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722149.805	4294233.034	4456	25-Jun-15	BRIDGETON BOREHOLE 1	392270.967	
722150.5	4294232.669	4659	25-Jun-15	BRIDGETON BOREHOLE 1	392271.839	1231
722149.827	4294233.085	4659	25-Jun-15	BRIDGETON BOREHOLE 1	392271.839	
722150.564	4294232.764	4195	25-Jun-15	BRIDGETON BOREHOLE 1	392273.02	1232
722149.893	4294233.186	4195	25-Jun-15	BRIDGETON BOREHOLE 1	392273.02	
722150.496	4294232.661	4370	25-Jun-15	BRIDGETON BOREHOLE 1	392274.116	1233
722149.788	4294233.068	4370	25-Jun-15	BRIDGETON BOREHOLE 1	392274.116	
722150.516	4294232.658	3966	25-Jun-15	BRIDGETON BOREHOLE 1	392274.908	1234
722149.838	4294233.085	3966	25-Jun-15	BRIDGETON BOREHOLE 1	392274.908	
722150.512	4294232.648	4278	25-Jun-15	BRIDGETON BOREHOLE 1	392276.154	1235
722149.894	4294233.134	4278	25-Jun-15	BRIDGETON BOREHOLE 1	392276.154	
722150.509	4294232.646	4507	25-Jun-15	BRIDGETON BOREHOLE 1	392276.915	1236
722149.916	4294233.159	4507	25-Jun-15	BRIDGETON BOREHOLE 1	392276.915	
722150.503	4294232.654	4755	25-Jun-15	BRIDGETON BOREHOLE 1	392278.263	1237
722149.933	4294233.189	4755	25-Jun-15	BRIDGETON BOREHOLE 1	392278.263	
722150.52	4294232.654	4407	25-Jun-15	BRIDGETON BOREHOLE 1	392279.067	1238
722149.951	4294233.199	4407	25-Jun-15	BRIDGETON BOREHOLE 1	392279.067	
722150.522	4294232.653	4241	25-Jun-15	BRIDGETON BOREHOLE 1	392280.053	1239
722149.96	4294233.206	4241	25-Jun-15	BRIDGETON BOREHOLE 1	392280.053	
722150.518	4294232.655	3806	25-Jun-15	BRIDGETON BOREHOLE 1	392280.882	1240
722149.955	4294233.216	3806	25-Jun-15	BRIDGETON BOREHOLE 1	392280.882	
722150.519	4294232.656	3853	25-Jun-15	BRIDGETON BOREHOLE 1	392281.897	1241
722149.965	4294233.221	3853	25-Jun-15	BRIDGETON BOREHOLE 1	392281.897	
722150.517	4294232.663	3945	25-Jun-15	BRIDGETON BOREHOLE 1	392283.034	1242
722149.97	4294233.227	3945	25-Jun-15	BRIDGETON BOREHOLE 1	392283.034	
722150.512	4294232.672	4013	25-Jun-15	BRIDGETON BOREHOLE 1	392284.268	1243
722149.978	4294233.242	4013	25-Jun-15	BRIDGETON BOREHOLE 1	392284.268	
722150.513	4294232.673	4098	25-Jun-15	BRIDGETON BOREHOLE 1	392285.024	1244
722149.99	4294233.242	4098	25-Jun-15	BRIDGETON BOREHOLE 1	392285.024	
722150.518	4294232.674	3921	25-Jun-15	BRIDGETON BOREHOLE 1	392285.944	1245
722150.01	4294233.253	3921	25-Jun-15	BRIDGETON BOREHOLE 1	392285.944	
722150.532	4294232.666	4265	25-Jun-15	BRIDGETON BOREHOLE 1	392287.089	1246
722150.03	4294233.263	4265	25-Jun-15	BRIDGETON BOREHOLE 1	392287.089	
722150.531	4294232.672	4319	25-Jun-15	BRIDGETON BOREHOLE 1	392288.157	1247
722150.039	4294233.273	4319	25-Jun-15	BRIDGETON BOREHOLE 1	392288.157	
722150.529	4294232.68	3840	25-Jun-15	BRIDGETON BOREHOLE 1	392289.004	1248
722150.044	4294233.282	3840	25-Jun-15	BRIDGETON BOREHOLE 1	392289.004	
722150.53	4294232.681	4290	25-Jun-15	BRIDGETON BOREHOLE 1	392290.042	1249
722150.049	4294233.29	4290	25-Jun-15	BRIDGETON BOREHOLE 1	392290.042	
722150.532	4294232.685	4880	25-Jun-15	BRIDGETON BOREHOLE 1	392291.061	1250
722150.059	4294233.295	4880	25-Jun-15	BRIDGETON BOREHOLE 1	392291.061	
722150.531	4294232.686	5025	25-Jun-15	BRIDGETON BOREHOLE 1	392292.207	1251
722150.06	4294233.304	5025	25-Jun-15	BRIDGETON BOREHOLE 1	392292.207	
722150.529	4294232.697	4709	25-Jun-15	BRIDGETON BOREHOLE 1	392292.962	1252
722150.055	4294233.316	4709	25-Jun-15	BRIDGETON BOREHOLE 1	392292.962	
722150.528	4294232.691	4734	25-Jun-15	BRIDGETON BOREHOLE 1	392294.059	1253
722150.064	4294233.316	4734	25-Jun-15	BRIDGETON BOREHOLE 1	392294.059	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722150.533	4294232.692	4717	25-Jun-15	BRIDGETON BOREHOLE 1	392295.174	1254
722150.068	4294233.319	4717	25-Jun-15	BRIDGETON BOREHOLE 1	392295.174	
722150.535	4294232.7	4371	25-Jun-15	BRIDGETON BOREHOLE 1	392296.157	1255
722150.069	4294233.323	4371	25-Jun-15	BRIDGETON BOREHOLE 1	392296.157	
722150.527	4294232.7	4499	25-Jun-15	BRIDGETON BOREHOLE 1	392297.061	1256
722150.068	4294233.328	4499	25-Jun-15	BRIDGETON BOREHOLE 1	392297.061	
722150.528	4294232.691	4675	25-Jun-15	BRIDGETON BOREHOLE 1	392298.073	1257
722150.069	4294233.327	4675	25-Jun-15	BRIDGETON BOREHOLE 1	392298.073	
722150.537	4294232.687	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392299.056	1258
722150.073	4294233.325	4392	25-Jun-15	BRIDGETON BOREHOLE 1	392299.056	
722150.536	4294232.692	4218	25-Jun-15	BRIDGETON BOREHOLE 1	392300.175	1260
722150.075	4294233.326	4218	25-Jun-15	BRIDGETON BOREHOLE 1	392300.175	
722111.822	4294200.913	2628	26-Jun-15	BRIDGETON BOREHOLE 1	503229.608	3
722111.461	4294199.459	2628	26-Jun-15	BRIDGETON BOREHOLE 1	503229.608	
722111.82	4294200.913	2580	26-Jun-15	BRIDGETON BOREHOLE 1	503230.376	4
722111.43	4294199.491	2580	26-Jun-15	BRIDGETON BOREHOLE 1	503230.376	
722111.839	4294200.881	2562	26-Jun-15	BRIDGETON BOREHOLE 1	503231.539	6
722111.368	4294199.579	2562	26-Jun-15	BRIDGETON BOREHOLE 1	503231.539	
722111.862	4294200.859	2641	26-Jun-15	BRIDGETON BOREHOLE 1	503232.601	7
722111.359	4294199.634	2641	26-Jun-15	BRIDGETON BOREHOLE 1	503232.601	
722111.884	4294200.867	2698	26-Jun-15	BRIDGETON BOREHOLE 1	503233.71	8
722111.354	4294199.672	2698	26-Jun-15	BRIDGETON BOREHOLE 1	503233.71	
722111.891	4294200.907	2625	26-Jun-15	BRIDGETON BOREHOLE 1	503234.393	9
722111.402	4294199.674	2625	26-Jun-15	BRIDGETON BOREHOLE 1	503234.393	
722124.272	4294187.246	4893	27-Jun-15	BRIDGETON BOREHOLE 1	586888.6641	36
722123.351	4294187.762	4893	27-Jun-15	BRIDGETON BOREHOLE 1	586888.6641	
722124.287	4294187.225	4845	27-Jun-15	BRIDGETON BOREHOLE 1	586889.4297	38
722123.361	4294187.756	4845	27-Jun-15	BRIDGETON BOREHOLE 1	586889.4297	
722124.318	4294187.171	5177	27-Jun-15	BRIDGETON BOREHOLE 1	586890.6563	39
722123.432	4294187.749	5177	27-Jun-15	BRIDGETON BOREHOLE 1	586890.6563	
722124.31	4294187.15	4765	27-Jun-15	BRIDGETON BOREHOLE 1	586891.6406	40
722123.471	4294187.764	4765	27-Jun-15	BRIDGETON BOREHOLE 1	586891.6406	
722124.136	4294187.212	4772	27-Jun-15	BRIDGETON BOREHOLE 1	586892.6797	41
722123.304	4294187.812	4772	27-Jun-15	BRIDGETON BOREHOLE 1	586892.6797	
722123.97	4294187.249	4417	27-Jun-15	BRIDGETON BOREHOLE 1	586893.6094	42
722123.082	4294187.791	4417	27-Jun-15	BRIDGETON BOREHOLE 1	586893.6094	
722123.704	4294187.178	4562	27-Jun-15	BRIDGETON BOREHOLE 1	586894.5938	43
722122.8	4294187.683	4562	27-Jun-15	BRIDGETON BOREHOLE 1	586894.5938	
722123.32	4294187.064	4673	27-Jun-15	BRIDGETON BOREHOLE 1	586895.4922	44
722122.339	4294187.529	4673	27-Jun-15	BRIDGETON BOREHOLE 1	586895.4922	
722122.736	4294186.925	4533	27-Jun-15	BRIDGETON BOREHOLE 1	586896.5469	45
722121.695	4294187.355	4533	27-Jun-15	BRIDGETON BOREHOLE 1	586896.5469	
722122.179	4294186.77	4530	27-Jun-15	BRIDGETON BOREHOLE 1	586897.4766	46
722121.201	4294187.172	4530	27-Jun-15	BRIDGETON BOREHOLE 1	586897.4766	
722121.405	4294186.453	4573	27-Jun-15	BRIDGETON BOREHOLE 1	586898.6484	47
722120.535	4294186.813	4573	27-Jun-15	BRIDGETON BOREHOLE 1	586898.6484	
722120.852	4294186.08	4740	27-Jun-15	BRIDGETON BOREHOLE 1	586899.6172	48

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722120.008	4294186.414	4740	27-Jun-15	BRIDGETON BOREHOLE 1	586899.6172	
722120.804	4294185.641	5591	27-Jun-15	BRIDGETON BOREHOLE 1	586900.7188	49
722120.003	4294185.965	5591	27-Jun-15	BRIDGETON BOREHOLE 1	586900.7188	
722121.19	4294185.514	5747	27-Jun-15	BRIDGETON BOREHOLE 1	586901.5	50
722120.415	4294185.857	5747	27-Jun-15	BRIDGETON BOREHOLE 1	586901.5	
722121.864	4294185.641	5858	27-Jun-15	BRIDGETON BOREHOLE 1	586902.6094	51
722121.097	4294186	5858	27-Jun-15	BRIDGETON BOREHOLE 1	586902.6094	
722122.465	4294185.874	5132	27-Jun-15	BRIDGETON BOREHOLE 1	586903.5859	52
722121.676	4294186.259	5132	27-Jun-15	BRIDGETON BOREHOLE 1	586903.5859	
722123.177	4294186.078	4972	27-Jun-15	BRIDGETON BOREHOLE 1	586904.75	53
722122.372	4294186.475	4972	27-Jun-15	BRIDGETON BOREHOLE 1	586904.75	
722123.64	4294186.145	4484	27-Jun-15	BRIDGETON BOREHOLE 1	586905.5156	54
722122.835	4294186.526	4484	27-Jun-15	BRIDGETON BOREHOLE 1	586905.5156	
722124.319	4294186.171	4285	27-Jun-15	BRIDGETON BOREHOLE 1	586906.6484	55
722123.525	4294186.518	4285	27-Jun-15	BRIDGETON BOREHOLE 1	586906.6484	
722124.804	4294186.148	4585	27-Jun-15	BRIDGETON BOREHOLE 1	586907.6016	56
722124.04	4294186.432	4585	27-Jun-15	BRIDGETON BOREHOLE 1	586907.6016	
722125.398	4294186.027	4364	27-Jun-15	BRIDGETON BOREHOLE 1	586908.6641	57
722124.635	4294186.233	4364	27-Jun-15	BRIDGETON BOREHOLE 1	586908.6641	
722125.758	4294185.862	5080	27-Jun-15	BRIDGETON BOREHOLE 1	586909.4766	58
722125.054	4294185.988	5080	27-Jun-15	BRIDGETON BOREHOLE 1	586909.4766	
722126.022	4294185.663	5100	27-Jun-15	BRIDGETON BOREHOLE 1	586910.5625	59
722125.231	4294185.8	5100	27-Jun-15	BRIDGETON BOREHOLE 1	586910.5625	
722125.867	4294185.624	5531	27-Jun-15	BRIDGETON BOREHOLE 1	586911.4766	60
722125.029	4294185.826	5531	27-Jun-15	BRIDGETON BOREHOLE 1	586911.4766	
722125.369	4294185.635	5278	27-Jun-15	BRIDGETON BOREHOLE 1	586912.5078	61
722124.681	4294185.872	5278	27-Jun-15	BRIDGETON BOREHOLE 1	586912.5078	
722124.773	4294185.756	5474	27-Jun-15	BRIDGETON BOREHOLE 1	586913.5625	62
722124.188	4294185.966	5474	27-Jun-15	BRIDGETON BOREHOLE 1	586913.5625	
722124.061	4294185.832	5456	27-Jun-15	BRIDGETON BOREHOLE 1	586914.7969	63
722123.436	4294186.086	5456	27-Jun-15	BRIDGETON BOREHOLE 1	586914.7969	
722123.735	4294185.789	5184	27-Jun-15	BRIDGETON BOREHOLE 1	586915.3906	64
722123.073	4294186.051	5184	27-Jun-15	BRIDGETON BOREHOLE 1	586915.3906	
722123.137	4294185.68	5188	27-Jun-15	BRIDGETON BOREHOLE 1	586916.5156	65
722122.404	4294185.921	5188	27-Jun-15	BRIDGETON BOREHOLE 1	586916.5156	
722122.624	4294185.61	4973	27-Jun-15	BRIDGETON BOREHOLE 1	586917.4141	66
722121.854	4294185.823	4973	27-Jun-15	BRIDGETON BOREHOLE 1	586917.4141	
722122.03	4294185.568	4815	27-Jun-15	BRIDGETON BOREHOLE 1	586918.4766	67
722121.266	4294185.707	4815	27-Jun-15	BRIDGETON BOREHOLE 1	586918.4766	
722121.452	4294185.558	4936	27-Jun-15	BRIDGETON BOREHOLE 1	586919.7422	68
722120.588	4294185.646	4936	27-Jun-15	BRIDGETON BOREHOLE 1	586919.7422	
722121.182	4294185.67	5086	27-Jun-15	BRIDGETON BOREHOLE 1	586920.8047	69
722120.238	4294185.762	5086	27-Jun-15	BRIDGETON BOREHOLE 1	586920.8047	
722121.231	4294185.998	4548	27-Jun-15	BRIDGETON BOREHOLE 1	586921.5938	70
722120.311	4294186.082	4548	27-Jun-15	BRIDGETON BOREHOLE 1	586921.5938	
722121.329	4294186.45	4921	27-Jun-15	BRIDGETON BOREHOLE 1	586922.4453	71
722120.416	4294186.527	4921	27-Jun-15	BRIDGETON BOREHOLE 1	586922.4453	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722121.443	4294186.789	4815	27-Jun-15	BRIDGETON BOREHOLE 1	586923.5859	72
722120.482	4294186.859	4815	27-Jun-15	BRIDGETON BOREHOLE 1	586923.5859	
722121.754	4294186.936	5041	27-Jun-15	BRIDGETON BOREHOLE 1	586924.8203	73
722120.775	4294186.968	5041	27-Jun-15	BRIDGETON BOREHOLE 1	586924.8203	
722122.056	4294187.014	4778	27-Jun-15	BRIDGETON BOREHOLE 1	586925.4141	74
722121.115	4294187.066	4778	27-Jun-15	BRIDGETON BOREHOLE 1	586925.4141	
722122.851	4294187.167	4157	27-Jun-15	BRIDGETON BOREHOLE 1	586926.5938	75
722121.873	4294187.187	4157	27-Jun-15	BRIDGETON BOREHOLE 1	586926.5938	
722123.442	4294187.161	4656	27-Jun-15	BRIDGETON BOREHOLE 1	586927.7109	76
722122.558	4294187.131	4656	27-Jun-15	BRIDGETON BOREHOLE 1	586927.7109	
722123.801	4294187.065	4156	27-Jun-15	BRIDGETON BOREHOLE 1	586928.5859	77
722123.008	4294186.896	4156	27-Jun-15	BRIDGETON BOREHOLE 1	586928.5859	
722124.285	4294186.873	4498	27-Jun-15	BRIDGETON BOREHOLE 1	586929.5938	78
722123.537	4294186.499	4498	27-Jun-15	BRIDGETON BOREHOLE 1	586929.5938	
722124.369	4294186.595	4847	27-Jun-15	BRIDGETON BOREHOLE 1	586930.7109	79
722123.625	4294186.201	4847	27-Jun-15	BRIDGETON BOREHOLE 1	586930.7109	
722123.966	4294186.471	4646	27-Jun-15	BRIDGETON BOREHOLE 1	586931.6172	80
722123.402	4294186.03	4646	27-Jun-15	BRIDGETON BOREHOLE 1	586931.6172	
722123.529	4294186.257	4931	27-Jun-15	BRIDGETON BOREHOLE 1	586932.4609	81
722122.993	4294185.839	4931	27-Jun-15	BRIDGETON BOREHOLE 1	586932.4609	
722122.884	4294185.999	4994	27-Jun-15	BRIDGETON BOREHOLE 1	586933.5859	82
722122.226	4294185.621	4994	27-Jun-15	BRIDGETON BOREHOLE 1	586933.5859	
722122.007	4294185.778	5074	27-Jun-15	BRIDGETON BOREHOLE 1	586934.6953	83
722121.438	4294185.493	5074	27-Jun-15	BRIDGETON BOREHOLE 1	586934.6953	
722121.614	4294185.533	4654	27-Jun-15	BRIDGETON BOREHOLE 1	586935.5859	84
722120.901	4294185.253	4654	27-Jun-15	BRIDGETON BOREHOLE 1	586935.5859	
722121.353	4294185.155	5062	27-Jun-15	BRIDGETON BOREHOLE 1	586936.4375	85
722120.644	4294184.923	5062	27-Jun-15	BRIDGETON BOREHOLE 1	586936.4375	
722121.125	4294184.554	5840	27-Jun-15	BRIDGETON BOREHOLE 1	586937.5313	86
722120.618	4294184.414	5840	27-Jun-15	BRIDGETON BOREHOLE 1	586937.5313	
722121.307	4294184.078	5617	27-Jun-15	BRIDGETON BOREHOLE 1	586938.5469	87
722120.579	4294183.829	5617	27-Jun-15	BRIDGETON BOREHOLE 1	586938.5469	
722121.259	4294183.453	5537	27-Jun-15	BRIDGETON BOREHOLE 1	586939.6641	88
722120.49	4294183.079	5537	27-Jun-15	BRIDGETON BOREHOLE 1	586939.6641	
722121.182	4294182.967	5845	27-Jun-15	BRIDGETON BOREHOLE 1	586940.5625	89
722120.578	4294182.413	5845	27-Jun-15	BRIDGETON BOREHOLE 1	586940.5625	
722121.184	4294182.229	5731	27-Jun-15	BRIDGETON BOREHOLE 1	586941.625	90
722120.658	4294181.641	5731	27-Jun-15	BRIDGETON BOREHOLE 1	586941.625	
722121.174	4294181.597	5346	27-Jun-15	BRIDGETON BOREHOLE 1	586942.7734	91
722120.724	4294180.88	5346	27-Jun-15	BRIDGETON BOREHOLE 1	586942.7734	
722121.188	4294181.117	5340	27-Jun-15	BRIDGETON BOREHOLE 1	586943.6094	92
722120.788	4294180.216	5340	27-Jun-15	BRIDGETON BOREHOLE 1	586943.6094	
722121.318	4294180.483	5306	27-Jun-15	BRIDGETON BOREHOLE 1	586944.5391	93
722120.806	4294179.524	5306	27-Jun-15	BRIDGETON BOREHOLE 1	586944.5391	
722121.233	4294179.62	5887	27-Jun-15	BRIDGETON BOREHOLE 1	586945.6484	94
722120.726	4294178.839	5887	27-Jun-15	BRIDGETON BOREHOLE 1	586945.6484	
722121.172	4294179.003	5974	27-Jun-15	BRIDGETON BOREHOLE 1	586946.75	95

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722120.664	4294178.34	5974	27-Jun-15	BRIDGETON BOREHOLE 1	586946.75	
722121.226	4294178.663	5885	27-Jun-15	BRIDGETON BOREHOLE 1	586947.6172	96
722120.567	4294177.874	5885	27-Jun-15	BRIDGETON BOREHOLE 1	586947.6172	
722121.193	4294178.119	5935	27-Jun-15	BRIDGETON BOREHOLE 1	586948.6016	97
722120.469	4294177.332	5935	27-Jun-15	BRIDGETON BOREHOLE 1	586948.6016	
722121.161	4294177.365	5603	27-Jun-15	BRIDGETON BOREHOLE 1	586949.7656	98
722120.372	4294176.603	5603	27-Jun-15	BRIDGETON BOREHOLE 1	586949.7656	
722121.253	4294176.883	5364	27-Jun-15	BRIDGETON BOREHOLE 1	586950.5313	99
722120.295	4294176.111	5364	27-Jun-15	BRIDGETON BOREHOLE 1	586950.5313	
722121.188	4294176.038	5635	27-Jun-15	BRIDGETON BOREHOLE 1	586951.6484	100
722120.24	4294175.425	5635	27-Jun-15	BRIDGETON BOREHOLE 1	586951.6484	
722121.072	4294175.387	4834	27-Jun-15	BRIDGETON BOREHOLE 1	586952.6016	101
722120.143	4294174.873	4834	27-Jun-15	BRIDGETON BOREHOLE 1	586952.6016	
722121.032	4294174.929	5187	27-Jun-15	BRIDGETON BOREHOLE 1	586953.4531	102
722120.041	4294174.412	5187	27-Jun-15	BRIDGETON BOREHOLE 1	586953.4531	
722121.029	4294174.401	5535	27-Jun-15	BRIDGETON BOREHOLE 1	586954.4766	103
722120.009	4294173.84	5535	27-Jun-15	BRIDGETON BOREHOLE 1	586954.4766	
722121.304	4294173.874	5776	27-Jun-15	BRIDGETON BOREHOLE 1	586955.6172	104
722120.27	4294173.237	5776	27-Jun-15	BRIDGETON BOREHOLE 1	586955.6172	
722121.815	4294173.298	5334	27-Jun-15	BRIDGETON BOREHOLE 1	586956.6797	105
722120.712	4294173.12	5334	27-Jun-15	BRIDGETON BOREHOLE 1	586956.6797	
722121.816	4294173.741	5362	27-Jun-15	BRIDGETON BOREHOLE 1	586957.4609	106
722120.765	4294173.448	5362	27-Jun-15	BRIDGETON BOREHOLE 1	586957.4609	
722121.417	4294174.796	5536	27-Jun-15	BRIDGETON BOREHOLE 1	586958.5703	107
722120.649	4294174.039	5536	27-Jun-15	BRIDGETON BOREHOLE 1	586958.5703	
722121.279	4294175.317	5566	27-Jun-15	BRIDGETON BOREHOLE 1	586959.4531	108
722120.684	4294174.492	5566	27-Jun-15	BRIDGETON BOREHOLE 1	586959.4531	
722121.365	4294176.061	5126	27-Jun-15	BRIDGETON BOREHOLE 1	586960.5938	109
722120.815	4294175.219	5126	27-Jun-15	BRIDGETON BOREHOLE 1	586960.5938	
722121.462	4294176.751	5163	27-Jun-15	BRIDGETON BOREHOLE 1	586961.7266	110
722120.927	4294176.053	5163	27-Jun-15	BRIDGETON BOREHOLE 1	586961.7266	
722121.49	4294177.239	5072	27-Jun-15	BRIDGETON BOREHOLE 1	586962.7813	111
722120.941	4294176.644	5072	27-Jun-15	BRIDGETON BOREHOLE 1	586962.7813	
722121.506	4294177.644	5148	27-Jun-15	BRIDGETON BOREHOLE 1	586963.5391	112
722120.915	4294177.056	5148	27-Jun-15	BRIDGETON BOREHOLE 1	586963.5391	
722121.522	4294178.105	4958	27-Jun-15	BRIDGETON BOREHOLE 1	586964.5234	113
722120.878	4294177.529	4958	27-Jun-15	BRIDGETON BOREHOLE 1	586964.5234	
722121.56	4294178.557	4641	27-Jun-15	BRIDGETON BOREHOLE 1	586965.5703	114
722120.882	4294178.004	4641	27-Jun-15	BRIDGETON BOREHOLE 1	586965.5703	
722121.675	4294179.166	4493	27-Jun-15	BRIDGETON BOREHOLE 1	586966.6719	115
722120.998	4294178.63	4493	27-Jun-15	BRIDGETON BOREHOLE 1	586966.6719	
722121.746	4294179.795	4170	27-Jun-15	BRIDGETON BOREHOLE 1	586967.6563	116
722121.111	4294179.319	4170	27-Jun-15	BRIDGETON BOREHOLE 1	586967.6563	
722121.795	4294180.548	4400	27-Jun-15	BRIDGETON BOREHOLE 1	586968.6953	117
722121.181	4294180.05	4400	27-Jun-15	BRIDGETON BOREHOLE 1	586968.6953	
722121.825	4294181.045	4177	27-Jun-15	BRIDGETON BOREHOLE 1	586969.3906	118
722121.221	4294180.519	4177	27-Jun-15	BRIDGETON BOREHOLE 1	586969.3906	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722121.896	4294181.962	5177	27-Jun-15	BRIDGETON BOREHOLE 1	586970.7109	119
722121.307	4294181.389	5177	27-Jun-15	BRIDGETON BOREHOLE 1	586970.7109	
722121.908	4294182.47	5185	27-Jun-15	BRIDGETON BOREHOLE 1	586971.4375	120
722121.306	4294181.92	5185	27-Jun-15	BRIDGETON BOREHOLE 1	586971.4375	
722121.898	4294183.237	4664	27-Jun-15	BRIDGETON BOREHOLE 1	586972.4766	121
722121.284	4294182.775	4664	27-Jun-15	BRIDGETON BOREHOLE 1	586972.4766	
722121.896	4294184.18	4386	27-Jun-15	BRIDGETON BOREHOLE 1	586973.7344	122
722121.285	4294183.807	4386	27-Jun-15	BRIDGETON BOREHOLE 1	586973.7344	
722121.856	4294184.877	4214	27-Jun-15	BRIDGETON BOREHOLE 1	586974.7109	123
722121.214	4294184.534	4214	27-Jun-15	BRIDGETON BOREHOLE 1	586974.7109	
722121.796	4294185.477	4253	27-Jun-15	BRIDGETON BOREHOLE 1	586975.5078	124
722121.138	4294185.116	4253	27-Jun-15	BRIDGETON BOREHOLE 1	586975.5078	
722121.718	4294186.347	4815	27-Jun-15	BRIDGETON BOREHOLE 1	586976.6563	125
722121.057	4294185.966	4815	27-Jun-15	BRIDGETON BOREHOLE 1	586976.6563	
722121.764	4294186.762	4485	27-Jun-15	BRIDGETON BOREHOLE 1	586977.375	126
722121.098	4294186.402	4485	27-Jun-15	BRIDGETON BOREHOLE 1	586977.375	
722121.964	4294186.937	4346	27-Jun-15	BRIDGETON BOREHOLE 1	586978.625	127
722121.331	4294186.706	4346	27-Jun-15	BRIDGETON BOREHOLE 1	586978.625	
722122.043	4294186.701	4304	27-Jun-15	BRIDGETON BOREHOLE 1	586979.3984	128
722121.394	4294186.536	4304	27-Jun-15	BRIDGETON BOREHOLE 1	586979.3984	
722122.051	4294186.084	4619	27-Jun-15	BRIDGETON BOREHOLE 1	586980.4766	129
722121.353	4294185.921	4619	27-Jun-15	BRIDGETON BOREHOLE 1	586980.4766	
722122.041	4294185.442	4683	27-Jun-15	BRIDGETON BOREHOLE 1	586981.5547	130
722121.354	4294185.275	4683	27-Jun-15	BRIDGETON BOREHOLE 1	586981.5547	
722122.038	4294185.012	4876	27-Jun-15	BRIDGETON BOREHOLE 1	586982.5938	131
722121.361	4294184.855	4876	27-Jun-15	BRIDGETON BOREHOLE 1	586982.5938	
722122.029	4294184.761	4363	27-Jun-15	BRIDGETON BOREHOLE 1	586983.4063	132
722121.362	4294184.594	4363	27-Jun-15	BRIDGETON BOREHOLE 1	586983.4063	
722122.056	4294184.475	4546	27-Jun-15	BRIDGETON BOREHOLE 1	586984.6406	133
722121.388	4294184.258	4546	27-Jun-15	BRIDGETON BOREHOLE 1	586984.6406	
722122.085	4294184.316	4860	27-Jun-15	BRIDGETON BOREHOLE 1	586985.5078	134
722121.401	4294184.063	4860	27-Jun-15	BRIDGETON BOREHOLE 1	586985.5078	
722122.15	4294184.216	4878	27-Jun-15	BRIDGETON BOREHOLE 1	586986.6172	135
722121.422	4294183.987	4878	27-Jun-15	BRIDGETON BOREHOLE 1	586986.6172	
722122.208	4294184.225	4709	27-Jun-15	BRIDGETON BOREHOLE 1	586987.6484	136
722121.458	4294183.999	4709	27-Jun-15	BRIDGETON BOREHOLE 1	586987.6484	
722122.217	4294184.236	5259	27-Jun-15	BRIDGETON BOREHOLE 1	586988.75	137
722121.422	4294184.049	5259	27-Jun-15	BRIDGETON BOREHOLE 1	586988.75	
722122.21	4294184.235	5283	27-Jun-15	BRIDGETON BOREHOLE 1	586989.4063	138
722121.381	4294184.091	5283	27-Jun-15	BRIDGETON BOREHOLE 1	586989.4063	
722122.185	4294184.239	4959	27-Jun-15	BRIDGETON BOREHOLE 1	586990.4844	139
722121.336	4294184.12	4959	27-Jun-15	BRIDGETON BOREHOLE 1	586990.4844	
722122.163	4294184.241	4739	27-Jun-15	BRIDGETON BOREHOLE 1	586991.6328	140
722121.335	4294184.106	4739	27-Jun-15	BRIDGETON BOREHOLE 1	586991.6328	
722122.171	4294184.229	4938	27-Jun-15	BRIDGETON BOREHOLE 1	586992.7266	141
722121.345	4294184.092	4938	27-Jun-15	BRIDGETON BOREHOLE 1	586992.7266	
722122.171	4294184.223	4840	27-Jun-15	BRIDGETON BOREHOLE 1	586993.5859	142

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722121.342	4294184.085	4840	27-Jun-15	BRIDGETON BOREHOLE 1	586993.5859	
722122.167	4294184.226	4897	27-Jun-15	BRIDGETON BOREHOLE 1	586994.6094	143
722121.335	4294184.085	4897	27-Jun-15	BRIDGETON BOREHOLE 1	586994.6094	
722122.17	4294184.231	5170	27-Jun-15	BRIDGETON BOREHOLE 1	586995.4844	144
722121.337	4294184.085	5170	27-Jun-15	BRIDGETON BOREHOLE 1	586995.4844	
722122.174	4294184.243	5023	27-Jun-15	BRIDGETON BOREHOLE 1	586996.5234	145
722121.349	4294184.086	5023	27-Jun-15	BRIDGETON BOREHOLE 1	586996.5234	
722122.174	4294184.251	4745	27-Jun-15	BRIDGETON BOREHOLE 1	586997.5938	146
722121.358	4294184.078	4745	27-Jun-15	BRIDGETON BOREHOLE 1	586997.5938	
722122.158	4294184.195	5279	27-Jun-15	BRIDGETON BOREHOLE 1	586998.7188	147
722121.377	4294184.01	5279	27-Jun-15	BRIDGETON BOREHOLE 1	586998.7188	
722122.107	4294184.044	5429	27-Jun-15	BRIDGETON BOREHOLE 1	586999.2891	148
722121.349	4294183.86	5429	27-Jun-15	BRIDGETON BOREHOLE 1	586999.2891	
722122.015	4294183.338	5169	27-Jun-15	BRIDGETON BOREHOLE 1	587000.6172	149
722121.269	4294183.133	5169	27-Jun-15	BRIDGETON BOREHOLE 1	587000.6172	
722122.091	4294182.764	5157	27-Jun-15	BRIDGETON BOREHOLE 1	587001.4531	150
722121.347	4294182.532	5157	27-Jun-15	BRIDGETON BOREHOLE 1	587001.4531	
722122.206	4294182.092	4806	27-Jun-15	BRIDGETON BOREHOLE 1	587002.4297	151
722121.473	4294181.847	4806	27-Jun-15	BRIDGETON BOREHOLE 1	587002.4297	
722122.24	4294181.363	4121	27-Jun-15	BRIDGETON BOREHOLE 1	587003.6172	152
722121.496	4294181.091	4121	27-Jun-15	BRIDGETON BOREHOLE 1	587003.6172	
722122.185	4294180.751	4043	27-Jun-15	BRIDGETON BOREHOLE 1	587004.6484	153
722121.393	4294180.475	4043	27-Jun-15	BRIDGETON BOREHOLE 1	587004.6484	
722122.162	4294180.285	4299	27-Jun-15	BRIDGETON BOREHOLE 1	587005.5234	154
722121.393	4294180.026	4299	27-Jun-15	BRIDGETON BOREHOLE 1	587005.5234	
722122.086	4294179.756	4390	27-Jun-15	BRIDGETON BOREHOLE 1	587006.4609	155
722121.354	4294179.525	4390	27-Jun-15	BRIDGETON BOREHOLE 1	587006.4609	
722121.948	4294179.025	4644	27-Jun-15	BRIDGETON BOREHOLE 1	587007.5938	156
722121.198	4294178.8	4644	27-Jun-15	BRIDGETON BOREHOLE 1	587007.5938	
722121.914	4294178.49	4420	27-Jun-15	BRIDGETON BOREHOLE 1	587008.4609	157
722121.142	4294178.21	4420	27-Jun-15	BRIDGETON BOREHOLE 1	587008.4609	
722121.874	4294177.858	4683	27-Jun-15	BRIDGETON BOREHOLE 1	587009.5625	158
722121.071	4294177.529	4683	27-Jun-15	BRIDGETON BOREHOLE 1	587009.5625	
722121.844	4294177.139	4187	27-Jun-15	BRIDGETON BOREHOLE 1	587010.6484	159
722121	4294176.763	4187	27-Jun-15	BRIDGETON BOREHOLE 1	587010.6484	
722121.866	4294176.383	4800	27-Jun-15	BRIDGETON BOREHOLE 1	587011.6328	160
722121.004	4294175.921	4800	27-Jun-15	BRIDGETON BOREHOLE 1	587011.6328	
722121.878	4294175.659	5310	27-Jun-15	BRIDGETON BOREHOLE 1	587012.7031	161
722120.976	4294175.054	5310	27-Jun-15	BRIDGETON BOREHOLE 1	587012.7031	
722121.862	4294175.269	5057	27-Jun-15	BRIDGETON BOREHOLE 1	587013.3359	162
722120.941	4294174.546	5057	27-Jun-15	BRIDGETON BOREHOLE 1	587013.3359	
722121.85	4294174.528	4884	27-Jun-15	BRIDGETON BOREHOLE 1	587014.4766	163
722120.871	4294173.714	4884	27-Jun-15	BRIDGETON BOREHOLE 1	587014.4766	
722121.876	4294173.824	4892	27-Jun-15	BRIDGETON BOREHOLE 1	587015.5938	164
722120.832	4294173.064	4892	27-Jun-15	BRIDGETON BOREHOLE 1	587015.5938	
722122.05	4294173.34	5362	27-Jun-15	BRIDGETON BOREHOLE 1	587016.7188	165
722121.12	4294172.567	5362	27-Jun-15	BRIDGETON BOREHOLE 1	587016.7188	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722122.38	4294173.257	5416	27-Jun-15	BRIDGETON BOREHOLE 1	587017.625	166
722121.562	4294172.578	5416	27-Jun-15	BRIDGETON BOREHOLE 1	587017.625	
722122.6	4294173.544	5319	27-Jun-15	BRIDGETON BOREHOLE 1	587018.5078	167
722121.892	4294172.95	5319	27-Jun-15	BRIDGETON BOREHOLE 1	587018.5078	
722122.582	4294174.216	5032	27-Jun-15	BRIDGETON BOREHOLE 1	587019.5078	168
722121.982	4294173.53	5032	27-Jun-15	BRIDGETON BOREHOLE 1	587019.5078	
722122.493	4294174.858	4953	27-Jun-15	BRIDGETON BOREHOLE 1	587020.4453	169
722121.93	4294174.077	4953	27-Jun-15	BRIDGETON BOREHOLE 1	587020.4453	
722122.456	4294175.436	4743	27-Jun-15	BRIDGETON BOREHOLE 1	587021.5938	170
722121.82	4294174.781	4743	27-Jun-15	BRIDGETON BOREHOLE 1	587021.5938	
722122.435	4294175.886	4738	27-Jun-15	BRIDGETON BOREHOLE 1	587022.4375	171
722121.744	4294175.321	4738	27-Jun-15	BRIDGETON BOREHOLE 1	587022.4375	
722122.402	4294176.575	4592	27-Jun-15	BRIDGETON BOREHOLE 1	587023.5469	172
722121.675	4294176.077	4592	27-Jun-15	BRIDGETON BOREHOLE 1	587023.5469	
722122.328	4294177.392	4773	27-Jun-15	BRIDGETON BOREHOLE 1	587024.7188	173
722121.606	4294176.938	4773	27-Jun-15	BRIDGETON BOREHOLE 1	587024.7188	
722122.306	4294177.823	4590	27-Jun-15	BRIDGETON BOREHOLE 1	587025.3359	174
722121.62	4294177.39	4590	27-Jun-15	BRIDGETON BOREHOLE 1	587025.3359	
722122.309	4294178.751	4532	27-Jun-15	BRIDGETON BOREHOLE 1	587026.6797	175
722121.626	4294178.336	4532	27-Jun-15	BRIDGETON BOREHOLE 1	587026.6797	
722122.331	4294179.372	4161	27-Jun-15	BRIDGETON BOREHOLE 1	587027.5547	176
722121.599	4294178.931	4161	27-Jun-15	BRIDGETON BOREHOLE 1	587027.5547	
722122.347	4294180.114	4193	27-Jun-15	BRIDGETON BOREHOLE 1	587028.7266	177
722121.557	4294179.606	4193	27-Jun-15	BRIDGETON BOREHOLE 1	587028.7266	
722122.359	4294180.479	4841	27-Jun-15	BRIDGETON BOREHOLE 1	587029.3516	178
722121.555	4294179.95	4841	27-Jun-15	BRIDGETON BOREHOLE 1	587029.3516	
722122.366	4294181.196	5025	27-Jun-15	BRIDGETON BOREHOLE 1	587030.4844	179
722121.54	4294180.63	5025	27-Jun-15	BRIDGETON BOREHOLE 1	587030.4844	
722122.349	4294181.954	4777	27-Jun-15	BRIDGETON BOREHOLE 1	587031.5625	180
722121.522	4294181.389	4777	27-Jun-15	BRIDGETON BOREHOLE 1	587031.5625	
722122.336	4294182.722	4667	27-Jun-15	BRIDGETON BOREHOLE 1	587032.6719	181
722121.565	4294182.183	4667	27-Jun-15	BRIDGETON BOREHOLE 1	587032.6719	
722122.355	4294183.302	4612	27-Jun-15	BRIDGETON BOREHOLE 1	587033.5547	182
722121.626	4294182.775	4612	27-Jun-15	BRIDGETON BOREHOLE 1	587033.5547	
722122.395	4294183.937	4964	27-Jun-15	BRIDGETON BOREHOLE 1	587034.6172	183
722121.7	4294183.479	4964	27-Jun-15	BRIDGETON BOREHOLE 1	587034.6172	
722122.398	4294184.404	5117	27-Jun-15	BRIDGETON BOREHOLE 1	587035.4609	184
722121.712	4294183.965	5117	27-Jun-15	BRIDGETON BOREHOLE 1	587035.4609	
722122.424	4294185.117	4326	27-Jun-15	BRIDGETON BOREHOLE 1	587036.8125	185
722121.751	4294184.734	4326	27-Jun-15	BRIDGETON BOREHOLE 1	587036.8125	
722122.416	4294185.416	4571	27-Jun-15	BRIDGETON BOREHOLE 1	587037.3438	186
722121.725	4294185.039	4571	27-Jun-15	BRIDGETON BOREHOLE 1	587037.3438	
722122.471	4294186.046	4161	27-Jun-15	BRIDGETON BOREHOLE 1	587038.4688	187
722121.714	4294185.608	4161	27-Jun-15	BRIDGETON BOREHOLE 1	587038.4688	
722122.71	4294186.118	5175	27-Jun-15	BRIDGETON BOREHOLE 1	587039.6172	188
722121.908	4294185.765	5175	27-Jun-15	BRIDGETON BOREHOLE 1	587039.6172	
722122.536	4294185.577	4718	27-Jun-15	BRIDGETON BOREHOLE 1	587040.7422	189

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722122.22	4294185.299	4718	27-Jun-15	BRIDGETON BOREHOLE 1	587040.7422	
722122.592	4294185.201	4822	27-Jun-15	BRIDGETON BOREHOLE 1	587041.5078	190
722122.199	4294184.794	4822	27-Jun-15	BRIDGETON BOREHOLE 1	587041.5078	
722122.727	4294184.636	4527	27-Jun-15	BRIDGETON BOREHOLE 1	587042.5078	191
722122.082	4294184.215	4527	27-Jun-15	BRIDGETON BOREHOLE 1	587042.5078	
722122.686	4294184.079	4249	27-Jun-15	BRIDGETON BOREHOLE 1	587043.4297	192
722122.042	4294183.743	4249	27-Jun-15	BRIDGETON BOREHOLE 1	587043.4297	
722122.628	4294183.456	4542	27-Jun-15	BRIDGETON BOREHOLE 1	587044.5547	193
722121.967	4294183.092	4542	27-Jun-15	BRIDGETON BOREHOLE 1	587044.5547	
722122.657	4294182.955	4505	27-Jun-15	BRIDGETON BOREHOLE 1	587045.4375	194
722121.935	4294182.551	4505	27-Jun-15	BRIDGETON BOREHOLE 1	587045.4375	
722122.722	4294182.255	4904	27-Jun-15	BRIDGETON BOREHOLE 1	587046.5938	195
722121.932	4294181.797	4904	27-Jun-15	BRIDGETON BOREHOLE 1	587046.5938	
722122.796	4294181.531	4866	27-Jun-15	BRIDGETON BOREHOLE 1	587047.6484	196
722121.995	4294181.12	4866	27-Jun-15	BRIDGETON BOREHOLE 1	587047.6484	
722122.889	4294180.933	4964	27-Jun-15	BRIDGETON BOREHOLE 1	587048.6094	197
722122.083	4294180.571	4964	27-Jun-15	BRIDGETON BOREHOLE 1	587048.6094	
722122.979	4294180.466	4420	27-Jun-15	BRIDGETON BOREHOLE 1	587049.4844	198
722122.136	4294180.091	4420	27-Jun-15	BRIDGETON BOREHOLE 1	587049.4844	
722122.991	4294180.072	4578	27-Jun-15	BRIDGETON BOREHOLE 1	587050.5391	199
722122.108	4294179.533	4578	27-Jun-15	BRIDGETON BOREHOLE 1	587050.5391	
722122.938	4294179.712	4143	27-Jun-15	BRIDGETON BOREHOLE 1	587051.4766	200
722122.067	4294179.006	4143	27-Jun-15	BRIDGETON BOREHOLE 1	587051.4766	
722122.983	4294179.004	3869	27-Jun-15	BRIDGETON BOREHOLE 1	587052.7109	201
722122.123	4294178.259	3869	27-Jun-15	BRIDGETON BOREHOLE 1	587052.7109	
722122.951	4294178.652	4083	27-Jun-15	BRIDGETON BOREHOLE 1	587053.5547	202
722122.14	4294177.85	4083	27-Jun-15	BRIDGETON BOREHOLE 1	587053.5547	
722122.959	4294177.925	4037	27-Jun-15	BRIDGETON BOREHOLE 1	587054.6328	203
722122.061	4294177.274	4037	27-Jun-15	BRIDGETON BOREHOLE 1	587054.6328	
722122.956	4294177.369	4483	27-Jun-15	BRIDGETON BOREHOLE 1	587055.3594	204
722121.965	4294176.783	4483	27-Jun-15	BRIDGETON BOREHOLE 1	587055.3594	
722122.871	4294176.496	4607	27-Jun-15	BRIDGETON BOREHOLE 1	587056.625	205
722121.82	4294175.799	4607	27-Jun-15	BRIDGETON BOREHOLE 1	587056.625	
722122.838	4294175.962	4496	27-Jun-15	BRIDGETON BOREHOLE 1	587057.3594	206
722121.792	4294175.268	4496	27-Jun-15	BRIDGETON BOREHOLE 1	587057.3594	
722122.783	4294175.191	4025	27-Jun-15	BRIDGETON BOREHOLE 1	587058.5156	207
722121.779	4294174.492	4025	27-Jun-15	BRIDGETON BOREHOLE 1	587058.5156	
722122.701	4294174.598	4506	27-Jun-15	BRIDGETON BOREHOLE 1	587059.4297	208
722121.721	4294173.88	4506	27-Jun-15	BRIDGETON BOREHOLE 1	587059.4297	
722122.59	4294173.974	4987	27-Jun-15	BRIDGETON BOREHOLE 1	587060.5234	209
722121.589	4294173.221	4987	27-Jun-15	BRIDGETON BOREHOLE 1	587060.5234	
722122.714	4294173.485	5048	27-Jun-15	BRIDGETON BOREHOLE 1	587061.5156	210
722121.75	4294172.667	5048	27-Jun-15	BRIDGETON BOREHOLE 1	587061.5156	
722122.986	4294173.409	5209	27-Jun-15	BRIDGETON BOREHOLE 1	587062.4375	211
722122.164	4294172.519	5209	27-Jun-15	BRIDGETON BOREHOLE 1	587062.4375	
722123.281	4294173.902	5082	27-Jun-15	BRIDGETON BOREHOLE 1	587063.7188	212
722122.473	4294173.084	5082	27-Jun-15	BRIDGETON BOREHOLE 1	587063.7188	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.275	4294174.126	4696	27-Jun-15	BRIDGETON BOREHOLE 1	587064.5938	213
722122.399	4294173.392	4696	27-Jun-15	BRIDGETON BOREHOLE 1	587064.5938	
722123.197	4294174.195	4621	27-Jun-15	BRIDGETON BOREHOLE 1	587065.4219	214
722122.298	4294173.517	4621	27-Jun-15	BRIDGETON BOREHOLE 1	587065.4219	
722123.145	4294174.193	4594	27-Jun-15	BRIDGETON BOREHOLE 1	587066.4688	215
722122.244	4294173.578	4594	27-Jun-15	BRIDGETON BOREHOLE 1	587066.4688	
722123.134	4294174.216	4707	27-Jun-15	BRIDGETON BOREHOLE 1	587067.5313	216
722122.241	4294173.609	4707	27-Jun-15	BRIDGETON BOREHOLE 1	587067.5313	
722123.133	4294174.238	5002	27-Jun-15	BRIDGETON BOREHOLE 1	587068.6172	217
722122.251	4294173.628	5002	27-Jun-15	BRIDGETON BOREHOLE 1	587068.6172	
722123.14	4294174.24	4959	27-Jun-15	BRIDGETON BOREHOLE 1	587069.4844	218
722122.26	4294173.646	4959	27-Jun-15	BRIDGETON BOREHOLE 1	587069.4844	
722123.147	4294174.242	4724	27-Jun-15	BRIDGETON BOREHOLE 1	587070.5625	219
722122.263	4294173.665	4724	27-Jun-15	BRIDGETON BOREHOLE 1	587070.5625	
722123.148	4294174.248	4990	27-Jun-15	BRIDGETON BOREHOLE 1	587071.3828	220
722122.259	4294173.68	4990	27-Jun-15	BRIDGETON BOREHOLE 1	587071.3828	
722123.143	4294174.245	4802	27-Jun-15	BRIDGETON BOREHOLE 1	587072.4375	221
722122.254	4294173.695	4802	27-Jun-15	BRIDGETON BOREHOLE 1	587072.4375	
722123.139	4294174.218	5236	27-Jun-15	BRIDGETON BOREHOLE 1	587073.5781	222
722122.254	4294173.704	5236	27-Jun-15	BRIDGETON BOREHOLE 1	587073.5781	
722123.136	4294174.192	5367	27-Jun-15	BRIDGETON BOREHOLE 1	587074.7266	223
722122.265	4294173.696	5367	27-Jun-15	BRIDGETON BOREHOLE 1	587074.7266	
722123.145	4294174.2	5134	27-Jun-15	BRIDGETON BOREHOLE 1	587075.5938	224
722122.267	4294173.704	5134	27-Jun-15	BRIDGETON BOREHOLE 1	587075.5938	
722123.147	4294174.214	5153	27-Jun-15	BRIDGETON BOREHOLE 1	587076.4531	225
722122.257	4294173.725	5153	27-Jun-15	BRIDGETON BOREHOLE 1	587076.4531	
722123.145	4294174.229	5013	27-Jun-15	BRIDGETON BOREHOLE 1	587077.5938	226
722122.243	4294173.758	5013	27-Jun-15	BRIDGETON BOREHOLE 1	587077.5938	
722123.148	4294174.232	4605	27-Jun-15	BRIDGETON BOREHOLE 1	587078.7188	227
722122.249	4294173.763	4605	27-Jun-15	BRIDGETON BOREHOLE 1	587078.7188	
722123.149	4294174.231	4345	27-Jun-15	BRIDGETON BOREHOLE 1	587079.5234	228
722122.26	4294173.757	4345	27-Jun-15	BRIDGETON BOREHOLE 1	587079.5234	
722123.144	4294174.211	4499	27-Jun-15	BRIDGETON BOREHOLE 1	587080.5313	229
722122.273	4294173.746	4499	27-Jun-15	BRIDGETON BOREHOLE 1	587080.5313	
722123.157	4294174.213	4773	27-Jun-15	BRIDGETON BOREHOLE 1	587081.4531	230
722122.286	4294173.736	4773	27-Jun-15	BRIDGETON BOREHOLE 1	587081.4531	
722123.217	4294174.209	4897	27-Jun-15	BRIDGETON BOREHOLE 1	587082.6406	231
722122.407	4294173.849	4897	27-Jun-15	BRIDGETON BOREHOLE 1	587082.6406	
722123.257	4294174.343	5222	27-Jun-15	BRIDGETON BOREHOLE 1	587083.4609	232
722122.48	4294174.097	5222	27-Jun-15	BRIDGETON BOREHOLE 1	587083.4609	
722123.248	4294174.834	4745	27-Jun-15	BRIDGETON BOREHOLE 1	587084.5938	233
722122.429	4294174.565	4745	27-Jun-15	BRIDGETON BOREHOLE 1	587084.5938	
722123.223	4294175.36	5196	27-Jun-15	BRIDGETON BOREHOLE 1	587085.4766	234
722122.366	4294175.024	5196	27-Jun-15	BRIDGETON BOREHOLE 1	587085.4766	
722123.226	4294176.116	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587086.6016	235
722122.333	4294175.666	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587086.6016	
722123.392	4294176.815	5280	27-Jun-15	BRIDGETON BOREHOLE 1	587087.5938	236

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722122.456	4294176.412	5280	27-Jun-15	BRIDGETON BOREHOLE 1	587087.5938	
722123.389	4294177.579	4875	27-Jun-15	BRIDGETON BOREHOLE 1	587088.5938	237
722122.51	4294177.179	4875	27-Jun-15	BRIDGETON BOREHOLE 1	587088.5938	
722123.344	4294178.248	4804	27-Jun-15	BRIDGETON BOREHOLE 1	587089.4531	238
722122.461	4294177.731	4804	27-Jun-15	BRIDGETON BOREHOLE 1	587089.4531	
722123.413	4294178.923	3940	27-Jun-15	BRIDGETON BOREHOLE 1	587090.3359	239
722122.439	4294178.292	3940	27-Jun-15	BRIDGETON BOREHOLE 1	587090.3359	
722123.521	4294179.749	3992	27-Jun-15	BRIDGETON BOREHOLE 1	587091.4375	240
722122.571	4294179.149	3992	27-Jun-15	BRIDGETON BOREHOLE 1	587091.4375	
722123.603	4294180.603	4295	27-Jun-15	BRIDGETON BOREHOLE 1	587092.5938	241
722122.711	4294180.091	4295	27-Jun-15	BRIDGETON BOREHOLE 1	587092.5938	
722123.583	4294181.29	4351	27-Jun-15	BRIDGETON BOREHOLE 1	587093.5078	242
722122.701	4294180.79	4351	27-Jun-15	BRIDGETON BOREHOLE 1	587093.5078	
722123.527	4294182.038	4427	27-Jun-15	BRIDGETON BOREHOLE 1	587094.5625	243
722122.666	4294181.558	4427	27-Jun-15	BRIDGETON BOREHOLE 1	587094.5625	
722123.523	4294182.732	4395	27-Jun-15	BRIDGETON BOREHOLE 1	587095.5859	244
722122.632	4294182.226	4395	27-Jun-15	BRIDGETON BOREHOLE 1	587095.5859	
722123.535	4294183.451	4317	27-Jun-15	BRIDGETON BOREHOLE 1	587096.75	245
722122.678	4294183.018	4317	27-Jun-15	BRIDGETON BOREHOLE 1	587096.75	
722123.537	4294183.769	4543	27-Jun-15	BRIDGETON BOREHOLE 1	587097.3438	246
722122.757	4294183.455	4543	27-Jun-15	BRIDGETON BOREHOLE 1	587097.3438	
722123.493	4294184.282	4805	27-Jun-15	BRIDGETON BOREHOLE 1	587098.4219	247
722122.851	4294184.169	4805	27-Jun-15	BRIDGETON BOREHOLE 1	587098.4219	
722123.405	4294184.901	4053	27-Jun-15	BRIDGETON BOREHOLE 1	587099.5469	248
722122.757	4294184.757	4053	27-Jun-15	BRIDGETON BOREHOLE 1	587099.5469	
722123.322	4294185.677	3975	27-Jun-15	BRIDGETON BOREHOLE 1	587100.6797	249
722122.568	4294185.401	3975	27-Jun-15	BRIDGETON BOREHOLE 1	587100.6797	
722123.2	4294186.094	4057	27-Jun-15	BRIDGETON BOREHOLE 1	587101.5938	250
722122.421	4294185.865	4057	27-Jun-15	BRIDGETON BOREHOLE 1	587101.5938	
722123.136	4294186.517	4382	27-Jun-15	BRIDGETON BOREHOLE 1	587102.4453	251
722122.309	4294186.238	4382	27-Jun-15	BRIDGETON BOREHOLE 1	587102.4453	
722123.177	4294186.871	3958	27-Jun-15	BRIDGETON BOREHOLE 1	587103.2188	252
722122.346	4294186.556	3958	27-Jun-15	BRIDGETON BOREHOLE 1	587103.2188	
722123.421	4294186.924	4214	27-Jun-15	BRIDGETON BOREHOLE 1	587104.4609	253
722122.868	4294186.838	4214	27-Jun-15	BRIDGETON BOREHOLE 1	587104.4609	
722123.616	4294186.821	4575	27-Jun-15	BRIDGETON BOREHOLE 1	587105.5391	254
722123.269	4294186.525	4575	27-Jun-15	BRIDGETON BOREHOLE 1	587105.5391	
722123.796	4294186.373	4156	27-Jun-15	BRIDGETON BOREHOLE 1	587106.6641	255
722123.568	4294185.857	4156	27-Jun-15	BRIDGETON BOREHOLE 1	587106.6641	
722123.891	4294185.967	4340	27-Jun-15	BRIDGETON BOREHOLE 1	587107.4531	256
722123.639	4294185.297	4340	27-Jun-15	BRIDGETON BOREHOLE 1	587107.4531	
722123.971	4294185.363	4983	27-Jun-15	BRIDGETON BOREHOLE 1	587108.3516	257
722123.65	4294184.755	4983	27-Jun-15	BRIDGETON BOREHOLE 1	587108.3516	
722124.048	4294184.623	4911	27-Jun-15	BRIDGETON BOREHOLE 1	587109.5625	258
722123.602	4294184.162	4911	27-Jun-15	BRIDGETON BOREHOLE 1	587109.5625	
722123.99	4294184.216	4450	27-Jun-15	BRIDGETON BOREHOLE 1	587110.4531	259
722123.519	4294183.671	4450	27-Jun-15	BRIDGETON BOREHOLE 1	587110.4531	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.794	4294183.926	4505	27-Jun-15	BRIDGETON BOREHOLE 1	587111.2813	260
722123.355	4294183.38	4505	27-Jun-15	BRIDGETON BOREHOLE 1	587111.2813	
722123.517	4294183.87	4657	27-Jun-15	BRIDGETON BOREHOLE 1	587112.3438	261
722123.083	4294183.304	4657	27-Jun-15	BRIDGETON BOREHOLE 1	587112.3438	
722123.362	4294183.773	5379	27-Jun-15	BRIDGETON BOREHOLE 1	587113.4297	262
722122.846	4294183.246	5379	27-Jun-15	BRIDGETON BOREHOLE 1	587113.4297	
722123.143	4294183.8	5163	27-Jun-15	BRIDGETON BOREHOLE 1	587114.5156	263
722122.607	4294183.322	5163	27-Jun-15	BRIDGETON BOREHOLE 1	587114.5156	
722122.974	4294184.119	5064	27-Jun-15	BRIDGETON BOREHOLE 1	587115.4609	264
722122.397	4294183.34	5064	27-Jun-15	BRIDGETON BOREHOLE 1	587115.4609	
722123.014	4294184.497	4956	27-Jun-15	BRIDGETON BOREHOLE 1	587116.4063	265
722122.239	4294183.113	4956	27-Jun-15	BRIDGETON BOREHOLE 1	587116.4063	
722123.191	4294184.587	4925	27-Jun-15	BRIDGETON BOREHOLE 1	587117.6719	266
722122.452	4294182.995	4925	27-Jun-15	BRIDGETON BOREHOLE 1	587117.6719	
722123.301	4294184.481	5335	27-Jun-15	BRIDGETON BOREHOLE 1	587118.6719	267
722122.758	4294182.843	5335	27-Jun-15	BRIDGETON BOREHOLE 1	587118.6719	
722123.414	4294184.342	5333	27-Jun-15	BRIDGETON BOREHOLE 1	587119.4375	268
722122.922	4294182.741	5333	27-Jun-15	BRIDGETON BOREHOLE 1	587119.4375	
722123.539	4294184.134	5377	27-Jun-15	BRIDGETON BOREHOLE 1	587120.6094	269
722123.006	4294182.695	5377	27-Jun-15	BRIDGETON BOREHOLE 1	587120.6094	
722123.573	4294184.05	6107	27-Jun-15	BRIDGETON BOREHOLE 1	587121.4922	270
722122.997	4294182.718	6107	27-Jun-15	BRIDGETON BOREHOLE 1	587121.4922	
722123.448	4294184.044	6776	27-Jun-15	BRIDGETON BOREHOLE 1	587122.4531	271
722123.029	4294182.842	6776	27-Jun-15	BRIDGETON BOREHOLE 1	587122.4531	
722123.292	4294184.081	6164	27-Jun-15	BRIDGETON BOREHOLE 1	587123.5469	272
722123.092	4294183.035	6164	27-Jun-15	BRIDGETON BOREHOLE 1	587123.5469	
722123.394	4294184.102	7451	27-Jun-15	BRIDGETON BOREHOLE 1	587124.4219	273
722123.119	4294183.156	7451	27-Jun-15	BRIDGETON BOREHOLE 1	587124.4219	
722123.558	4294184.104	6692	27-Jun-15	BRIDGETON BOREHOLE 1	587125.3125	274
722123.125	4294183.223	6692	27-Jun-15	BRIDGETON BOREHOLE 1	587125.3125	
722123.633	4294183.976	5303	27-Jun-15	BRIDGETON BOREHOLE 1	587126.5938	275
722123.125	4294183.165	5303	27-Jun-15	BRIDGETON BOREHOLE 1	587126.5938	
722123.65	4294183.742	5248	27-Jun-15	BRIDGETON BOREHOLE 1	587127.7188	276
722123.164	4294182.911	5248	27-Jun-15	BRIDGETON BOREHOLE 1	587127.7188	
722123.559	4294183.496	5036	27-Jun-15	BRIDGETON BOREHOLE 1	587128.5234	277
722123.139	4294182.518	5036	27-Jun-15	BRIDGETON BOREHOLE 1	587128.5234	
722123.287	4294183.064	4888	27-Jun-15	BRIDGETON BOREHOLE 1	587129.4688	278
722122.975	4294181.875	4888	27-Jun-15	BRIDGETON BOREHOLE 1	587129.4688	
722123.148	4294182.308	5209	27-Jun-15	BRIDGETON BOREHOLE 1	587130.6172	279
722122.843	4294181.237	5209	27-Jun-15	BRIDGETON BOREHOLE 1	587130.6172	
722123.213	4294181.812	5158	27-Jun-15	BRIDGETON BOREHOLE 1	587131.5	280
722122.838	4294180.857	5158	27-Jun-15	BRIDGETON BOREHOLE 1	587131.5	
722123.254	4294181.413	4543	27-Jun-15	BRIDGETON BOREHOLE 1	587132.4922	281
722122.848	4294180.474	4543	27-Jun-15	BRIDGETON BOREHOLE 1	587132.4922	
722123.158	4294181.032	4386	27-Jun-15	BRIDGETON BOREHOLE 1	587133.4141	282
722122.916	4294180.121	4386	27-Jun-15	BRIDGETON BOREHOLE 1	587133.4141	
722122.984	4294180.544	4514	27-Jun-15	BRIDGETON BOREHOLE 1	587134.4844	283

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.052	4294179.565	4514	27-Jun-15	BRIDGETON BOREHOLE 1	587134.4844	
722122.966	4294180.045	5314	27-Jun-15	BRIDGETON BOREHOLE 1	587135.6719	284
722123.032	4294178.99	5314	27-Jun-15	BRIDGETON BOREHOLE 1	587135.6719	
722122.937	4294179.503	5479	27-Jun-15	BRIDGETON BOREHOLE 1	587136.6953	285
722122.879	4294178.447	5479	27-Jun-15	BRIDGETON BOREHOLE 1	587136.6953	
722122.887	4294179.081	5182	27-Jun-15	BRIDGETON BOREHOLE 1	587137.3438	286
722122.796	4294178.034	5182	27-Jun-15	BRIDGETON BOREHOLE 1	587137.3438	
722122.817	4294178.481	5382	27-Jun-15	BRIDGETON BOREHOLE 1	587138.4766	287
722122.68	4294177.235	5382	27-Jun-15	BRIDGETON BOREHOLE 1	587138.4766	
722122.908	4294177.753	5180	27-Jun-15	BRIDGETON BOREHOLE 1	587139.6797	288
722122.572	4294176.596	5180	27-Jun-15	BRIDGETON BOREHOLE 1	587139.6797	
722122.945	4294177.179	4743	27-Jun-15	BRIDGETON BOREHOLE 1	587140.5391	289
722122.6	4294176.333	4743	27-Jun-15	BRIDGETON BOREHOLE 1	587140.5391	
722122.947	4294176.714	4731	27-Jun-15	BRIDGETON BOREHOLE 1	587141.3438	290
722122.625	4294176.06	4731	27-Jun-15	BRIDGETON BOREHOLE 1	587141.3438	
722122.978	4294176.019	4423	27-Jun-15	BRIDGETON BOREHOLE 1	587142.4219	291
722122.524	4294175.543	4423	27-Jun-15	BRIDGETON BOREHOLE 1	587142.4219	
722122.888	4294175.37	4370	27-Jun-15	BRIDGETON BOREHOLE 1	587143.5547	292
722122.41	4294174.903	4370	27-Jun-15	BRIDGETON BOREHOLE 1	587143.5547	
722122.76	4294174.95	4618	27-Jun-15	BRIDGETON BOREHOLE 1	587144.4063	293
722122.283	4294174.348	4618	27-Jun-15	BRIDGETON BOREHOLE 1	587144.4063	
722122.712	4294174.201	4608	27-Jun-15	BRIDGETON BOREHOLE 1	587145.5938	294
722121.985	4294173.539	4608	27-Jun-15	BRIDGETON BOREHOLE 1	587145.5938	
722122.59	4294173.631	4624	27-Jun-15	BRIDGETON BOREHOLE 1	587146.4375	295
722121.84	4294173.026	4624	27-Jun-15	BRIDGETON BOREHOLE 1	587146.4375	
722122.455	4294173.268	5008	27-Jun-15	BRIDGETON BOREHOLE 1	587147.25	296
722121.827	4294172.645	5008	27-Jun-15	BRIDGETON BOREHOLE 1	587147.25	
722122.614	4294173.531	4737	27-Jun-15	BRIDGETON BOREHOLE 1	587148.4453	297
722122.086	4294172.637	4737	27-Jun-15	BRIDGETON BOREHOLE 1	587148.4453	
722123.067	4294173.945	4644	27-Jun-15	BRIDGETON BOREHOLE 1	587149.4609	298
722122.382	4294173.148	4644	27-Jun-15	BRIDGETON BOREHOLE 1	587149.4609	
722123.385	4294174.603	4615	27-Jun-15	BRIDGETON BOREHOLE 1	587150.5703	299
722122.566	4294173.869	4615	27-Jun-15	BRIDGETON BOREHOLE 1	587150.5703	
722123.474	4294175.259	4658	27-Jun-15	BRIDGETON BOREHOLE 1	587151.6406	300
722122.752	4294174.375	4658	27-Jun-15	BRIDGETON BOREHOLE 1	587151.6406	
722123.6	4294175.689	5028	27-Jun-15	BRIDGETON BOREHOLE 1	587152.4141	301
722122.993	4294174.691	5028	27-Jun-15	BRIDGETON BOREHOLE 1	587152.4141	
722123.63	4294176.5	5243	27-Jun-15	BRIDGETON BOREHOLE 1	587153.5313	302
722123.356	4294175.174	5243	27-Jun-15	BRIDGETON BOREHOLE 1	587153.5313	
722123.615	4294177.099	4944	27-Jun-15	BRIDGETON BOREHOLE 1	587154.3672	304
722123.531	4294175.547	4944	27-Jun-15	BRIDGETON BOREHOLE 1	587154.3672	
722123.653	4294177.909	4813	27-Jun-15	BRIDGETON BOREHOLE 1	587155.5313	306
722123.696	4294176.298	4813	27-Jun-15	BRIDGETON BOREHOLE 1	587155.5313	
722123.595	4294178.763	4380	27-Jun-15	BRIDGETON BOREHOLE 1	587156.6563	307
722123.722	4294177.172	4380	27-Jun-15	BRIDGETON BOREHOLE 1	587156.6563	
722123.558	4294179.3	4526	27-Jun-15	BRIDGETON BOREHOLE 1	587157.5	308
722123.645	4294177.773	4526	27-Jun-15	BRIDGETON BOREHOLE 1	587157.5	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.617	4294179.898	4713	27-Jun-15	BRIDGETON BOREHOLE 1	587158.6172	309
722123.657	4294178.504	4713	27-Jun-15	BRIDGETON BOREHOLE 1	587158.6172	
722123.673	4294180.545	4991	27-Jun-15	BRIDGETON BOREHOLE 1	587159.6406	310
722123.731	4294179.176	4991	27-Jun-15	BRIDGETON BOREHOLE 1	587159.6406	
722123.707	4294181.16	4570	27-Jun-15	BRIDGETON BOREHOLE 1	587160.6719	311
722123.791	4294179.762	4570	27-Jun-15	BRIDGETON BOREHOLE 1	587160.6719	
722123.746	4294181.553	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587161.3438	312
722123.868	4294180.113	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587161.3438	
722123.864	4294182.202	4815	27-Jun-15	BRIDGETON BOREHOLE 1	587162.4063	313
722124.022	4294180.675	4815	27-Jun-15	BRIDGETON BOREHOLE 1	587162.4063	
722124.033	4294182.969	4381	27-Jun-15	BRIDGETON BOREHOLE 1	587163.5938	314
722124.133	4294181.382	4381	27-Jun-15	BRIDGETON BOREHOLE 1	587163.5938	
722124.097	4294183.652	4459	27-Jun-15	BRIDGETON BOREHOLE 1	587164.6563	315
722124.124	4294182.024	4459	27-Jun-15	BRIDGETON BOREHOLE 1	587164.6563	
722124.097	4294184.128	4983	27-Jun-15	BRIDGETON BOREHOLE 1	587165.4297	316
722124.134	4294182.533	4983	27-Jun-15	BRIDGETON BOREHOLE 1	587165.4297	
722124.157	4294184.581	4625	27-Jun-15	BRIDGETON BOREHOLE 1	587166.3359	317
722124.169	4294183.105	4625	27-Jun-15	BRIDGETON BOREHOLE 1	587166.3359	
722124.346	4294184.84	4312	27-Jun-15	BRIDGETON BOREHOLE 1	587167.4219	318
722124.19	4294183.566	4312	27-Jun-15	BRIDGETON BOREHOLE 1	587167.4219	
722124.617	4294184.811	4450	27-Jun-15	BRIDGETON BOREHOLE 1	587168.5781	319
722124.231	4294183.731	4450	27-Jun-15	BRIDGETON BOREHOLE 1	587168.5781	
722124.725	4294184.566	4798	27-Jun-15	BRIDGETON BOREHOLE 1	587169.2656	320
722124.159	4294183.64	4798	27-Jun-15	BRIDGETON BOREHOLE 1	587169.2656	
722124.544	4294183.686	4544	27-Jun-15	BRIDGETON BOREHOLE 1	587170.6406	321
722123.695	4294183.158	4544	27-Jun-15	BRIDGETON BOREHOLE 1	587170.6406	
722124.419	4294183.093	4558	27-Jun-15	BRIDGETON BOREHOLE 1	587171.4766	323
722123.531	4294182.728	4558	27-Jun-15	BRIDGETON BOREHOLE 1	587171.4766	
722124.257	4294182.375	4461	27-Jun-15	BRIDGETON BOREHOLE 1	587172.5859	325
722123.396	4294182.033	4461	27-Jun-15	BRIDGETON BOREHOLE 1	587172.5859	
722124.18	4294181.949	4542	27-Jun-15	BRIDGETON BOREHOLE 1	587173.3359	326
722123.265	4294181.578	4542	27-Jun-15	BRIDGETON BOREHOLE 1	587173.3359	
722124.03	4294181.325	4647	27-Jun-15	BRIDGETON BOREHOLE 1	587174.5078	327
722123.066	4294180.94	4647	27-Jun-15	BRIDGETON BOREHOLE 1	587174.5078	
722123.818	4294180.664	4481	27-Jun-15	BRIDGETON BOREHOLE 1	587175.5234	328
722122.873	4294180.263	4481	27-Jun-15	BRIDGETON BOREHOLE 1	587175.5234	
722123.696	4294179.89	5033	27-Jun-15	BRIDGETON BOREHOLE 1	587176.6328	329
722122.883	4294179.523	5033	27-Jun-15	BRIDGETON BOREHOLE 1	587176.6328	
722123.656	4294179.422	4998	27-Jun-15	BRIDGETON BOREHOLE 1	587177.3906	330
722122.934	4294179.041	4998	27-Jun-15	BRIDGETON BOREHOLE 1	587177.3906	
722123.571	4294178.787	4739	27-Jun-15	BRIDGETON BOREHOLE 1	587178.4063	331
722122.927	4294178.466	4739	27-Jun-15	BRIDGETON BOREHOLE 1	587178.4063	
722123.469	4294178.151	4436	27-Jun-15	BRIDGETON BOREHOLE 1	587179.6406	332
722122.957	4294177.779	4436	27-Jun-15	BRIDGETON BOREHOLE 1	587179.6406	
722123.553	4294177.782	4175	27-Jun-15	BRIDGETON BOREHOLE 1	587180.3906	333
722123.009	4294177.3	4175	27-Jun-15	BRIDGETON BOREHOLE 1	587180.3906	
722123.615	4294177.263	4703	27-Jun-15	BRIDGETON BOREHOLE 1	587181.4141	334

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.042	4294176.56	4703	27-Jun-15	BRIDGETON BOREHOLE 1	587181.4141	
722123.571	4294176.512	4340	27-Jun-15	BRIDGETON BOREHOLE 1	587182.5469	335
722122.931	4294175.662	4340	27-Jun-15	BRIDGETON BOREHOLE 1	587182.5469	
722123.593	4294175.782	4639	27-Jun-15	BRIDGETON BOREHOLE 1	587183.4453	336
722122.831	4294175.013	4639	27-Jun-15	BRIDGETON BOREHOLE 1	587183.4453	
722123.46	4294175.124	4979	27-Jun-15	BRIDGETON BOREHOLE 1	587184.4844	337
722122.781	4294174.282	4979	27-Jun-15	BRIDGETON BOREHOLE 1	587184.4844	
722123.429	4294174.591	5186	27-Jun-15	BRIDGETON BOREHOLE 1	587185.3672	338
722122.646	4294173.623	5186	27-Jun-15	BRIDGETON BOREHOLE 1	587185.3672	
722123.328	4294173.827	5707	27-Jun-15	BRIDGETON BOREHOLE 1	587186.4609	339
722122.293	4294172.769	5707	27-Jun-15	BRIDGETON BOREHOLE 1	587186.4609	
722123.141	4294173.318	5595	27-Jun-15	BRIDGETON BOREHOLE 1	587187.2969	340
722122.084	4294172.357	5595	27-Jun-15	BRIDGETON BOREHOLE 1	587187.2969	
722122.979	4294173.178	5269	27-Jun-15	BRIDGETON BOREHOLE 1	587188.3516	341
722121.863	4294172.389	5269	27-Jun-15	BRIDGETON BOREHOLE 1	587188.3516	
722122.64	4294173.215	5416	27-Jun-15	BRIDGETON BOREHOLE 1	587189.4688	342
722121.648	4294172.675	5416	27-Jun-15	BRIDGETON BOREHOLE 1	587189.4688	
722122.609	4294173.466	5297	27-Jun-15	BRIDGETON BOREHOLE 1	587190.5938	343
722121.499	4294172.651	5297	27-Jun-15	BRIDGETON BOREHOLE 1	587190.5938	
722122.755	4294173.657	5082	27-Jun-15	BRIDGETON BOREHOLE 1	587191.4141	344
722121.55	4294172.638	5082	27-Jun-15	BRIDGETON BOREHOLE 1	587191.4141	
722122.828	4294173.908	4882	27-Jun-15	BRIDGETON BOREHOLE 1	587192.3906	345
722121.668	4294172.844	4882	27-Jun-15	BRIDGETON BOREHOLE 1	587192.3906	
722122.936	4294174.451	4651	27-Jun-15	BRIDGETON BOREHOLE 1	587193.5625	346
722121.729	4294173.323	4651	27-Jun-15	BRIDGETON BOREHOLE 1	587193.5625	
722123.013	4294175.21	4288	27-Jun-15	BRIDGETON BOREHOLE 1	587194.7109	347
722121.83	4294174.028	4288	27-Jun-15	BRIDGETON BOREHOLE 1	587194.7109	
722123.063	4294175.671	4107	27-Jun-15	BRIDGETON BOREHOLE 1	587195.3438	348
722121.958	4294174.527	4107	27-Jun-15	BRIDGETON BOREHOLE 1	587195.3438	
722123.158	4294176.474	4477	27-Jun-15	BRIDGETON BOREHOLE 1	587196.4844	349
722122.165	4294175.423	4477	27-Jun-15	BRIDGETON BOREHOLE 1	587196.4844	
722123.216	4294177.114	4071	27-Jun-15	BRIDGETON BOREHOLE 1	587197.4844	350
722122.214	4294176.033	4071	27-Jun-15	BRIDGETON BOREHOLE 1	587197.4844	
722123.227	4294177.766	4022	27-Jun-15	BRIDGETON BOREHOLE 1	587198.4766	351
722122.303	4294176.636	4022	27-Jun-15	BRIDGETON BOREHOLE 1	587198.4766	
722123.219	4294178.381	4214	27-Jun-15	BRIDGETON BOREHOLE 1	587199.3906	352
722122.44	4294177.389	4214	27-Jun-15	BRIDGETON BOREHOLE 1	587199.3906	
722123.22	4294179.056	3870	27-Jun-15	BRIDGETON BOREHOLE 1	587200.5313	353
722122.637	4294178.463	3870	27-Jun-15	BRIDGETON BOREHOLE 1	587200.5313	
722123.209	4294179.445	4038	27-Jun-15	BRIDGETON BOREHOLE 1	587201.3516	354
722122.726	4294179.223	4038	27-Jun-15	BRIDGETON BOREHOLE 1	587201.3516	
722123.086	4294179.6	4657	27-Jun-15	BRIDGETON BOREHOLE 1	587202.4375	355
722122.804	4294180.006	4657	27-Jun-15	BRIDGETON BOREHOLE 1	587202.4375	
722122.996	4294179.321	4509	27-Jun-15	BRIDGETON BOREHOLE 1	587203.5	356
722122.673	4294179.901	4509	27-Jun-15	BRIDGETON BOREHOLE 1	587203.5	
722123.063	4294178.719	5131	27-Jun-15	BRIDGETON BOREHOLE 1	587204.6016	357
722122.373	4294178.977	5131	27-Jun-15	BRIDGETON BOREHOLE 1	587204.6016	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.091	4294178.198	5009	27-Jun-15	BRIDGETON BOREHOLE 1	587205.3438	358
722122.278	4294178.232	5009	27-Jun-15	BRIDGETON BOREHOLE 1	587205.3438	
722123.113	4294177.267	4557	27-Jun-15	BRIDGETON BOREHOLE 1	587206.6953	359
722122.205	4294176.941	4557	27-Jun-15	BRIDGETON BOREHOLE 1	587206.6953	
722123.171	4294176.659	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587207.4766	360
722122.143	4294176.355	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587207.4766	
722123.179	4294175.743	4597	27-Jun-15	BRIDGETON BOREHOLE 1	587208.5547	361
722122.089	4294175.586	4597	27-Jun-15	BRIDGETON BOREHOLE 1	587208.5547	
722123.077	4294175.13	4596	27-Jun-15	BRIDGETON BOREHOLE 1	587209.2578	362
722122.085	4294175.015	4596	27-Jun-15	BRIDGETON BOREHOLE 1	587209.2578	
722122.853	4294174.092	4663	27-Jun-15	BRIDGETON BOREHOLE 1	587210.4375	363
722121.897	4294174.029	4663	27-Jun-15	BRIDGETON BOREHOLE 1	587210.4375	
722122.812	4294173.42	4625	27-Jun-15	BRIDGETON BOREHOLE 1	587211.3516	364
722121.778	4294173.362	4625	27-Jun-15	BRIDGETON BOREHOLE 1	587211.3516	
722123.21	4294172.74	4776	27-Jun-15	BRIDGETON BOREHOLE 1	587212.6328	365
722122.193	4294172.569	4776	27-Jun-15	BRIDGETON BOREHOLE 1	587212.6328	
722123.711	4294172.629	5192	27-Jun-15	BRIDGETON BOREHOLE 1	587213.6172	366
722122.694	4294172.22	5192	27-Jun-15	BRIDGETON BOREHOLE 1	587213.6172	
722123.989	4294172.843	4818	27-Jun-15	BRIDGETON BOREHOLE 1	587214.375	368
722123.079	4294172.228	4818	27-Jun-15	BRIDGETON BOREHOLE 1	587214.375	
722124.136	4294173.351	5057	27-Jun-15	BRIDGETON BOREHOLE 1	587215.4453	370
722123.37	4294172.612	5057	27-Jun-15	BRIDGETON BOREHOLE 1	587215.4453	
722124.109	4294173.846	5890	27-Jun-15	BRIDGETON BOREHOLE 1	587216.3828	371
722123.337	4294173.068	5890	27-Jun-15	BRIDGETON BOREHOLE 1	587216.3828	
722124.064	4294174.489	6303	27-Jun-15	BRIDGETON BOREHOLE 1	587217.5313	372
722123.289	4294173.743	6303	27-Jun-15	BRIDGETON BOREHOLE 1	587217.5313	
722124.041	4294175.312	5213	27-Jun-15	BRIDGETON BOREHOLE 1	587218.6094	373
722123.272	4294174.553	5213	27-Jun-15	BRIDGETON BOREHOLE 1	587218.6094	
722124.036	4294175.888	4222	27-Jun-15	BRIDGETON BOREHOLE 1	587219.25	374
722123.28	4294175.066	4222	27-Jun-15	BRIDGETON BOREHOLE 1	587219.25	
722124.068	4294177.003	4325	27-Jun-15	BRIDGETON BOREHOLE 1	587220.6172	375
722123.315	4294176.171	4325	27-Jun-15	BRIDGETON BOREHOLE 1	587220.6172	
722124.102	4294177.468	4780	27-Jun-15	BRIDGETON BOREHOLE 1	587221.2656	376
722123.351	4294176.691	4780	27-Jun-15	BRIDGETON BOREHOLE 1	587221.2656	
722124.135	4294178.265	5096	27-Jun-15	BRIDGETON BOREHOLE 1	587222.4063	377
722123.452	4294177.612	5096	27-Jun-15	BRIDGETON BOREHOLE 1	587222.4063	
722124.171	4294179.01	4786	27-Jun-15	BRIDGETON BOREHOLE 1	587223.5547	378
722123.489	4294178.378	4786	27-Jun-15	BRIDGETON BOREHOLE 1	587223.5547	
722124.316	4294179.764	5197	27-Jun-15	BRIDGETON BOREHOLE 1	587224.6172	379
722123.609	4294179.193	5197	27-Jun-15	BRIDGETON BOREHOLE 1	587224.6172	
722124.426	4294180.271	5083	27-Jun-15	BRIDGETON BOREHOLE 1	587225.3594	380
722123.628	4294179.756	5083	27-Jun-15	BRIDGETON BOREHOLE 1	587225.3594	
722124.642	4294180.817	4682	27-Jun-15	BRIDGETON BOREHOLE 1	587226.5547	381
722123.563	4294180.676	4682	27-Jun-15	BRIDGETON BOREHOLE 1	587226.5547	
722124.713	4294181.275	4921	27-Jun-15	BRIDGETON BOREHOLE 1	587227.5938	382
722123.637	4294181.456	4921	27-Jun-15	BRIDGETON BOREHOLE 1	587227.5938	
722124.721	4294181.705	4680	27-Jun-15	BRIDGETON BOREHOLE 1	587228.7188	383

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.635	4294182.139	4680	27-Jun-15	BRIDGETON BOREHOLE 1	587228.7188	
722124.689	4294182.267	4582	27-Jun-15	BRIDGETON BOREHOLE 1	587229.4219	384
722123.633	4294182.589	4582	27-Jun-15	BRIDGETON BOREHOLE 1	587229.4219	
722124.437	4294183.548	4955	27-Jun-15	BRIDGETON BOREHOLE 1	587230.5234	385
722123.651	4294183.433	4955	27-Jun-15	BRIDGETON BOREHOLE 1	587230.5234	
722123.851	4294184.141	4549	27-Jun-15	BRIDGETON BOREHOLE 1	587231.4688	386
722123.768	4294184.075	4549	27-Jun-15	BRIDGETON BOREHOLE 1	587231.4688	
722123.373	4294184.375	4989	27-Jun-15	BRIDGETON BOREHOLE 1	587232.3359	387
722123.919	4294184.555	4989	27-Jun-15	BRIDGETON BOREHOLE 1	587232.3359	
722123.439	4294185.195	4741	27-Jun-15	BRIDGETON BOREHOLE 1	587233.4922	388
722123.791	4294185.326	4741	27-Jun-15	BRIDGETON BOREHOLE 1	587233.4922	
722123.886	4294186.187	4774	27-Jun-15	BRIDGETON BOREHOLE 1	587234.5859	389
722123.412	4294186.033	4774	27-Jun-15	BRIDGETON BOREHOLE 1	587234.5859	
722124.09	4294186.845	4868	27-Jun-15	BRIDGETON BOREHOLE 1	587235.5078	390
722123.131	4294186.535	4868	27-Jun-15	BRIDGETON BOREHOLE 1	587235.5078	
722123.929	4294187.104	5198	27-Jun-15	BRIDGETON BOREHOLE 1	587236.4453	391
722123.026	4294186.784	5198	27-Jun-15	BRIDGETON BOREHOLE 1	587236.4453	
722123.779	4294187.036	5459	27-Jun-15	BRIDGETON BOREHOLE 1	587237.3594	392
722123.021	4294186.691	5459	27-Jun-15	BRIDGETON BOREHOLE 1	587237.3594	
722123.744	4294186.644	4893	27-Jun-15	BRIDGETON BOREHOLE 1	587238.5313	393
722122.99	4294186.26	4893	27-Jun-15	BRIDGETON BOREHOLE 1	587238.5313	
722123.799	4294186.194	5085	27-Jun-15	BRIDGETON BOREHOLE 1	587239.4531	395
722123.017	4294185.78	5085	27-Jun-15	BRIDGETON BOREHOLE 1	587239.4531	
722123.991	4294185.796	5020	27-Jun-15	BRIDGETON BOREHOLE 1	587240.5391	397
722123.074	4294185.307	5020	27-Jun-15	BRIDGETON BOREHOLE 1	587240.5391	
722124.242	4294185.684	4886	27-Jun-15	BRIDGETON BOREHOLE 1	587241.3594	398
722123.246	4294185.113	4886	27-Jun-15	BRIDGETON BOREHOLE 1	587241.3594	
722124.642	4294186.022	4916	27-Jun-15	BRIDGETON BOREHOLE 1	587242.6719	399
722123.682	4294185.626	4916	27-Jun-15	BRIDGETON BOREHOLE 1	587242.6719	
722124.717	4294186.461	5240	27-Jun-15	BRIDGETON BOREHOLE 1	587243.5781	400
722123.809	4294186.246	5240	27-Jun-15	BRIDGETON BOREHOLE 1	587243.5781	
722124.847	4294186.694	5077	27-Jun-15	BRIDGETON BOREHOLE 1	587244.3125	401
722123.972	4294186.459	5077	27-Jun-15	BRIDGETON BOREHOLE 1	587244.3125	
722125.085	4294186.635	4401	27-Jun-15	BRIDGETON BOREHOLE 1	587245.4531	402
722124.293	4294186.314	4401	27-Jun-15	BRIDGETON BOREHOLE 1	587245.4531	
722125.04	4294186.21	5610	27-Jun-15	BRIDGETON BOREHOLE 1	587246.6484	403
722124.347	4294185.99	5610	27-Jun-15	BRIDGETON BOREHOLE 1	587246.6484	
722125.051	4294185.733	5833	27-Jun-15	BRIDGETON BOREHOLE 1	587247.5703	404
722124.345	4294185.548	5833	27-Jun-15	BRIDGETON BOREHOLE 1	587247.5703	
722125.001	4294184.954	6492	27-Jun-15	BRIDGETON BOREHOLE 1	587248.6172	405
722124.198	4294184.847	6492	27-Jun-15	BRIDGETON BOREHOLE 1	587248.6172	
722124.852	4294184.364	5314	27-Jun-15	BRIDGETON BOREHOLE 1	587249.4766	406
722124.071	4294184.153	5314	27-Jun-15	BRIDGETON BOREHOLE 1	587249.4766	
722124.652	4294183.698	5397	27-Jun-15	BRIDGETON BOREHOLE 1	587250.4375	407
722123.927	4294183.37	5397	27-Jun-15	BRIDGETON BOREHOLE 1	587250.4375	
722124.55	4294182.927	4865	27-Jun-15	BRIDGETON BOREHOLE 1	587251.3359	408
722123.757	4294182.602	4865	27-Jun-15	BRIDGETON BOREHOLE 1	587251.3359	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722124.47	4294181.823	4904	27-Jun-15	BRIDGETON BOREHOLE 1	587252.6563	409
722123.53	4294181.351	4904	27-Jun-15	BRIDGETON BOREHOLE 1	587252.6563	
722124.533	4294181.07	4424	27-Jun-15	BRIDGETON BOREHOLE 1	587253.5	410
722123.456	4294180.385	4424	27-Jun-15	BRIDGETON BOREHOLE 1	587253.5	
722124.601	4294180.347	4236	27-Jun-15	BRIDGETON BOREHOLE 1	587254.3828	411
722123.446	4294179.349	4236	27-Jun-15	BRIDGETON BOREHOLE 1	587254.3828	
722124.545	4294179.517	4007	27-Jun-15	BRIDGETON BOREHOLE 1	587255.4922	412
722123.514	4294178.261	4007	27-Jun-15	BRIDGETON BOREHOLE 1	587255.4922	
722124.577	4294178.703	4214	27-Jun-15	BRIDGETON BOREHOLE 1	587256.6328	413
722123.551	4294177.177	4214	27-Jun-15	BRIDGETON BOREHOLE 1	587256.6328	
722124.62	4294178.184	4283	27-Jun-15	BRIDGETON BOREHOLE 1	587257.3984	414
722123.503	4294176.465	4283	27-Jun-15	BRIDGETON BOREHOLE 1	587257.3984	
722124.591	4294177.434	4156	27-Jun-15	BRIDGETON BOREHOLE 1	587258.3828	415
722123.392	4294175.665	4156	27-Jun-15	BRIDGETON BOREHOLE 1	587258.3828	
722124.563	4294176.485	4595	27-Jun-15	BRIDGETON BOREHOLE 1	587259.4766	416
722123.22	4294174.913	4595	27-Jun-15	BRIDGETON BOREHOLE 1	587259.4766	
722124.469	4294175.508	4677	27-Jun-15	BRIDGETON BOREHOLE 1	587260.6016	417
722123.031	4294174.202	4677	27-Jun-15	BRIDGETON BOREHOLE 1	587260.6016	
722124.338	4294174.975	4768	27-Jun-15	BRIDGETON BOREHOLE 1	587261.3359	418
722122.884	4294173.733	4768	27-Jun-15	BRIDGETON BOREHOLE 1	587261.3359	
722124.256	4294174.179	5067	27-Jun-15	BRIDGETON BOREHOLE 1	587262.4844	419
722122.716	4294173.003	5067	27-Jun-15	BRIDGETON BOREHOLE 1	587262.4844	
722124.323	4294173.665	5190	27-Jun-15	BRIDGETON BOREHOLE 1	587263.3359	420
722122.707	4294172.611	5190	27-Jun-15	BRIDGETON BOREHOLE 1	587263.3359	
722124.571	4294173.328	5229	27-Jun-15	BRIDGETON BOREHOLE 1	587264.3984	421
722122.915	4294172.132	5229	27-Jun-15	BRIDGETON BOREHOLE 1	587264.3984	
722124.812	4294173.284	5146	27-Jun-15	BRIDGETON BOREHOLE 1	587265.2813	423
722123.251	4294171.911	5146	27-Jun-15	BRIDGETON BOREHOLE 1	587265.2813	
722125.122	4294173.949	5992	27-Jun-15	BRIDGETON BOREHOLE 1	587266.4609	424
722123.774	4294172.457	5992	27-Jun-15	BRIDGETON BOREHOLE 1	587266.4609	
722125.157	4294174.536	5838	27-Jun-15	BRIDGETON BOREHOLE 1	587267.3438	426
722124.012	4294173.103	5838	27-Jun-15	BRIDGETON BOREHOLE 1	587267.3438	
722125.084	4294175.378	6149	27-Jun-15	BRIDGETON BOREHOLE 1	587268.5547	427
722124.217	4294174.064	6149	27-Jun-15	BRIDGETON BOREHOLE 1	587268.5547	
722125.038	4294175.951	5767	27-Jun-15	BRIDGETON BOREHOLE 1	587269.3359	428
722124.309	4294174.816	5767	27-Jun-15	BRIDGETON BOREHOLE 1	587269.3359	
722125.048	4294176.654	5224	27-Jun-15	BRIDGETON BOREHOLE 1	587270.25	429
722124.374	4294175.681	5224	27-Jun-15	BRIDGETON BOREHOLE 1	587270.25	
722125.079	4294177.503	5653	27-Jun-15	BRIDGETON BOREHOLE 1	587271.3906	430
722124.259	4294176.654	5653	27-Jun-15	BRIDGETON BOREHOLE 1	587271.3906	
722125.045	4294178.339	5977	27-Jun-15	BRIDGETON BOREHOLE 1	587272.5156	431
722124.32	4294177.515	5977	27-Jun-15	BRIDGETON BOREHOLE 1	587272.5156	
722125.128	4294179.043	5515	27-Jun-15	BRIDGETON BOREHOLE 1	587273.4375	432
722124.418	4294178.173	5515	27-Jun-15	BRIDGETON BOREHOLE 1	587273.4375	
722125.141	4294179.807	5367	27-Jun-15	BRIDGETON BOREHOLE 1	587274.5859	433
722124.565	4294179.016	5367	27-Jun-15	BRIDGETON BOREHOLE 1	587274.5859	
722125.08	4294180.3	5839	27-Jun-15	BRIDGETON BOREHOLE 1	587275.2891	434

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722124.635	4294179.599	5839	27-Jun-15	BRIDGETON BOREHOLE 1	587275.2891	
722125.095	4294181.113	5819	27-Jun-15	BRIDGETON BOREHOLE 1	587276.4063	435
722124.647	4294180.499	5819	27-Jun-15	BRIDGETON BOREHOLE 1	587276.4063	
722125.112	4294182.075	5088	27-Jun-15	BRIDGETON BOREHOLE 1	587277.5938	436
722124.629	4294181.513	5088	27-Jun-15	BRIDGETON BOREHOLE 1	587277.5938	
722125.153	4294182.799	5359	27-Jun-15	BRIDGETON BOREHOLE 1	587278.5156	437
722124.65	4294182.251	5359	27-Jun-15	BRIDGETON BOREHOLE 1	587278.5156	
722125.237	4294183.352	5167	27-Jun-15	BRIDGETON BOREHOLE 1	587279.2813	438
722124.665	4294182.824	5167	27-Jun-15	BRIDGETON BOREHOLE 1	587279.2813	
722125.313	4294184.266	5336	27-Jun-15	BRIDGETON BOREHOLE 1	587280.5547	439
722124.537	4294183.824	5336	27-Jun-15	BRIDGETON BOREHOLE 1	587280.5547	
722125.361	4294184.922	5281	27-Jun-15	BRIDGETON BOREHOLE 1	587281.4375	440
722124.47	4294184.575	5281	27-Jun-15	BRIDGETON BOREHOLE 1	587281.4375	
722125.392	4294185.587	5123	27-Jun-15	BRIDGETON BOREHOLE 1	587282.3906	441
722124.49	4294185.454	5123	27-Jun-15	BRIDGETON BOREHOLE 1	587282.3906	
722125.354	4294186.308	5124	27-Jun-15	BRIDGETON BOREHOLE 1	587283.5313	442
722124.495	4294186.395	5124	27-Jun-15	BRIDGETON BOREHOLE 1	587283.5313	
722125.324	4294186.757	4810	27-Jun-15	BRIDGETON BOREHOLE 1	587284.6016	443
722124.443	4294186.86	4810	27-Jun-15	BRIDGETON BOREHOLE 1	587284.6016	
722125.724	4294186.534	5075	27-Jun-15	BRIDGETON BOREHOLE 1	587285.6406	444
722124.554	4294186.627	5075	27-Jun-15	BRIDGETON BOREHOLE 1	587285.6406	
722125.908	4294186.172	5165	27-Jun-15	BRIDGETON BOREHOLE 1	587286.3438	446
722124.732	4294186.196	5165	27-Jun-15	BRIDGETON BOREHOLE 1	587286.3438	
722125.736	4294185.517	5230	27-Jun-15	BRIDGETON BOREHOLE 1	587287.5078	447
722124.932	4294185.417	5230	27-Jun-15	BRIDGETON BOREHOLE 1	587287.5078	
722125.737	4294184.789	6017	27-Jun-15	BRIDGETON BOREHOLE 1	587288.5625	448
722124.856	4294184.644	6017	27-Jun-15	BRIDGETON BOREHOLE 1	587288.5625	
722125.727	4294184.123	5631	27-Jun-15	BRIDGETON BOREHOLE 1	587289.4297	450
722124.853	4294184.006	5631	27-Jun-15	BRIDGETON BOREHOLE 1	587289.4297	
722125.658	4294183.456	5087	27-Jun-15	BRIDGETON BOREHOLE 1	587290.3594	451
722124.877	4294183.375	5087	27-Jun-15	BRIDGETON BOREHOLE 1	587290.3594	
722125.65	4294182.782	4894	27-Jun-15	BRIDGETON BOREHOLE 1	587291.3984	452
722124.826	4294182.607	4894	27-Jun-15	BRIDGETON BOREHOLE 1	587291.3984	
722125.581	4294182.135	4650	27-Jun-15	BRIDGETON BOREHOLE 1	587292.4609	453
722124.747	4294181.784	4650	27-Jun-15	BRIDGETON BOREHOLE 1	587292.4609	
722125.599	4294181.594	4731	27-Jun-15	BRIDGETON BOREHOLE 1	587293.3672	454
722124.72	4294180.934	4731	27-Jun-15	BRIDGETON BOREHOLE 1	587293.3672	
722125.613	4294180.872	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587294.3438	455
722124.703	4294179.955	4933	27-Jun-15	BRIDGETON BOREHOLE 1	587294.3438	
722125.589	4294179.946	5722	27-Jun-15	BRIDGETON BOREHOLE 1	587295.4844	457
722124.62	4294178.918	5722	27-Jun-15	BRIDGETON BOREHOLE 1	587295.4844	
722125.514	4294179.199	5469	27-Jun-15	BRIDGETON BOREHOLE 1	587296.6719	458
722124.715	4294177.918	5469	27-Jun-15	BRIDGETON BOREHOLE 1	587296.6719	
722125.462	4294178.746	5761	27-Jun-15	BRIDGETON BOREHOLE 1	587297.3516	459
722124.687	4294177.395	5761	27-Jun-15	BRIDGETON BOREHOLE 1	587297.3516	
722125.431	4294177.997	6090	27-Jun-15	BRIDGETON BOREHOLE 1	587298.3672	460
722124.479	4294176.697	6090	27-Jun-15	BRIDGETON BOREHOLE 1	587298.3672	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722125.643	4294177.561	5868	27-Jun-15	BRIDGETON BOREHOLE 1	587299.4219	461
722124.558	4294176.257	5868	27-Jun-15	BRIDGETON BOREHOLE 1	587299.4219	
722125.916	4294177.805	7016	27-Jun-15	BRIDGETON BOREHOLE 1	587300.4844	462
722124.908	4294176.452	7016	27-Jun-15	BRIDGETON BOREHOLE 1	587300.4844	
722125.972	4294178.36	7514	27-Jun-15	BRIDGETON BOREHOLE 1	587301.4063	463
722124.999	4294177.148	7514	27-Jun-15	BRIDGETON BOREHOLE 1	587301.4063	
722126.002	4294179.042	7368	27-Jun-15	BRIDGETON BOREHOLE 1	587302.5391	464
722124.939	4294178.135	7368	27-Jun-15	BRIDGETON BOREHOLE 1	587302.5391	
722126.023	4294179.595	7002	27-Jun-15	BRIDGETON BOREHOLE 1	587303.3906	465
722124.989	4294178.922	7002	27-Jun-15	BRIDGETON BOREHOLE 1	587303.3906	
722126.052	4294180.453	7570	27-Jun-15	BRIDGETON BOREHOLE 1	587304.4141	467
722125.035	4294179.91	7570	27-Jun-15	BRIDGETON BOREHOLE 1	587304.4141	
722125.883	4294181.223	7592	27-Jun-15	BRIDGETON BOREHOLE 1	587305.4297	468
722124.931	4294180.755	7592	27-Jun-15	BRIDGETON BOREHOLE 1	587305.4297	
722125.712	4294182.097	6458	27-Jun-15	BRIDGETON BOREHOLE 1	587306.6172	469
722124.695	4294181.599	6458	27-Jun-15	BRIDGETON BOREHOLE 1	587306.6172	
722125.619	4294182.677	5274	27-Jun-15	BRIDGETON BOREHOLE 1	587307.4063	470
722124.488	4294182.05	5274	27-Jun-15	BRIDGETON BOREHOLE 1	587307.4063	
722125.433	4294183.624	4684	27-Jun-15	BRIDGETON BOREHOLE 1	587308.6094	472
722124.213	4294183.029	4684	27-Jun-15	BRIDGETON BOREHOLE 1	587308.6094	
722125.302	4294184.293	5072	27-Jun-15	BRIDGETON BOREHOLE 1	587309.4375	474
722124.013	4294183.777	5072	27-Jun-15	BRIDGETON BOREHOLE 1	587309.4375	
722124.961	4294184.985	5276	27-Jun-15	BRIDGETON BOREHOLE 1	587310.4609	475
722123.532	4294184.35	5276	27-Jun-15	BRIDGETON BOREHOLE 1	587310.4609	
722124.442	4294185.305	5697	27-Jun-15	BRIDGETON BOREHOLE 1	587311.2813	476
722122.987	4294184.57	5697	27-Jun-15	BRIDGETON BOREHOLE 1	587311.2813	
722123.604	4294185.273	5327	27-Jun-15	BRIDGETON BOREHOLE 1	587312.4297	477
722122.203	4294184.608	5327	27-Jun-15	BRIDGETON BOREHOLE 1	587312.4297	
722123.13	4294184.801	4301	27-Jun-15	BRIDGETON BOREHOLE 1	587313.5156	478
722121.635	4294184.213	4301	27-Jun-15	BRIDGETON BOREHOLE 1	587313.5156	
722123.07	4294184.243	4527	27-Jun-15	BRIDGETON BOREHOLE 1	587314.3984	479
722121.584	4294183.646	4527	27-Jun-15	BRIDGETON BOREHOLE 1	587314.3984	
722123.353	4294183.653	4376	27-Jun-15	BRIDGETON BOREHOLE 1	587315.4141	481
722122.001	4294183.037	4376	27-Jun-15	BRIDGETON BOREHOLE 1	587315.4141	
722123.898	4294183.481	4351	27-Jun-15	BRIDGETON BOREHOLE 1	587316.5625	482
722122.786	4294182.758	4351	27-Jun-15	BRIDGETON BOREHOLE 1	587316.5625	
722124.108	4294183.92	5073	27-Jun-15	BRIDGETON BOREHOLE 1	587317.3438	484
722123.093	4294182.874	5073	27-Jun-15	BRIDGETON BOREHOLE 1	587317.3438	
722123.997	4294185.023	4893	27-Jun-15	BRIDGETON BOREHOLE 1	587318.3906	486
722123.089	4294183.339	4893	27-Jun-15	BRIDGETON BOREHOLE 1	587318.3906	
722123.744	4294185.963	4927	27-Jun-15	BRIDGETON BOREHOLE 1	587319.4375	488
722123.129	4294183.894	4927	27-Jun-15	BRIDGETON BOREHOLE 1	587319.4375	
722123.558	4294186.553	4901	27-Jun-15	BRIDGETON BOREHOLE 1	587320.5781	489
722122.988	4294184.372	4901	27-Jun-15	BRIDGETON BOREHOLE 1	587320.5781	
722123.475	4294186.808	5269	27-Jun-15	BRIDGETON BOREHOLE 1	587321.3438	490
722122.911	4294184.509	5269	27-Jun-15	BRIDGETON BOREHOLE 1	587321.3438	
722123.365	4294186.619	4861	27-Jun-15	BRIDGETON BOREHOLE 1	587322.3828	491

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722122.971	4294184.644	4861	27-Jun-15	BRIDGETON BOREHOLE 1	587322.3828	
722123.279	4294186.268	4384	27-Jun-15	BRIDGETON BOREHOLE 1	587323.375	492
722123.001	4294184.769	4384	27-Jun-15	BRIDGETON BOREHOLE 1	587323.375	
722123.282	4294186.269	4581	27-Jun-15	BRIDGETON BOREHOLE 1	587324.4844	493
722123.008	4294184.88	4581	27-Jun-15	BRIDGETON BOREHOLE 1	587324.4844	
722123.285	4294186.272	4129	27-Jun-15	BRIDGETON BOREHOLE 1	587325.6016	497
722123.014	4294184.93	4129	27-Jun-15	BRIDGETON BOREHOLE 1	587325.6016	
722194.716	4294233.89	4964	29-Jun-15	BRIDGETON BOREHOLE 1	133856.599	500
722194.315	4294233.78	4964	29-Jun-15	BRIDGETON BOREHOLE 1	133856.599	
722194.71	4294233.88	4607	29-Jun-15	BRIDGETON BOREHOLE 1	133857.682	501
722194.318	4294233.78	4607	29-Jun-15	BRIDGETON BOREHOLE 1	133857.682	
722194.711	4294233.88	4616	29-Jun-15	BRIDGETON BOREHOLE 1	133858.68	503
722194.326	4294233.78	4616	29-Jun-15	BRIDGETON BOREHOLE 1	133858.68	
722194.71	4294233.876	4839	29-Jun-15	BRIDGETON BOREHOLE 1	133859.543	504
722194.33	4294233.78	4839	29-Jun-15	BRIDGETON BOREHOLE 1	133859.543	
722194.708	4294233.868	5039	29-Jun-15	BRIDGETON BOREHOLE 1	133860.51	505
722194.333	4294233.776	5039	29-Jun-15	BRIDGETON BOREHOLE 1	133860.51	
722194.717	4294233.872	5602	29-Jun-15	BRIDGETON BOREHOLE 1	133861.706	506
722194.342	4294233.77	5602	29-Jun-15	BRIDGETON BOREHOLE 1	133861.706	
722194.718	4294233.875	5453	29-Jun-15	BRIDGETON BOREHOLE 1	133862.584	507
722194.341	4294233.771	5453	29-Jun-15	BRIDGETON BOREHOLE 1	133862.584	
722194.868	4294233.811	5467	29-Jun-15	BRIDGETON BOREHOLE 1	133863.663	508
722194.342	4294233.772	5467	29-Jun-15	BRIDGETON BOREHOLE 1	133863.663	
722194.832	4294233.848	5348	29-Jun-15	BRIDGETON BOREHOLE 1	133864.536	509
722194.344	4294233.772	5348	29-Jun-15	BRIDGETON BOREHOLE 1	133864.536	
722194.725	4294233.912	4800	29-Jun-15	BRIDGETON BOREHOLE 1	133865.673	510
722194.344	4294233.771	4800	29-Jun-15	BRIDGETON BOREHOLE 1	133865.673	
722194.713	4294233.92	4763	29-Jun-15	BRIDGETON BOREHOLE 1	133866.567	511
722194.345	4294233.768	4763	29-Jun-15	BRIDGETON BOREHOLE 1	133866.567	
722194.718	4294233.921	4756	29-Jun-15	BRIDGETON BOREHOLE 1	133867.759	512
722194.349	4294233.764	4756	29-Jun-15	BRIDGETON BOREHOLE 1	133867.759	
722194.725	4294233.917	4798	29-Jun-15	BRIDGETON BOREHOLE 1	133868.499	513
722194.352	4294233.763	4798	29-Jun-15	BRIDGETON BOREHOLE 1	133868.499	
722194.725	4294233.911	4731	29-Jun-15	BRIDGETON BOREHOLE 1	133869.588	514
722194.352	4294233.763	4731	29-Jun-15	BRIDGETON BOREHOLE 1	133869.588	
722194.714	4294233.916	5331	29-Jun-15	BRIDGETON BOREHOLE 1	133870.726	515
722194.35	4294233.763	5331	29-Jun-15	BRIDGETON BOREHOLE 1	133870.726	
722194.717	4294233.92	4881	29-Jun-15	BRIDGETON BOREHOLE 1	133871.785	516
722194.352	4294233.762	4881	29-Jun-15	BRIDGETON BOREHOLE 1	133871.785	
722194.719	4294233.921	4890	29-Jun-15	BRIDGETON BOREHOLE 1	133872.355	517
722194.355	4294233.762	4890	29-Jun-15	BRIDGETON BOREHOLE 1	133872.355	
722194.719	4294233.922	4521	29-Jun-15	BRIDGETON BOREHOLE 1	133873.478	518
722194.358	4294233.764	4521	29-Jun-15	BRIDGETON BOREHOLE 1	133873.478	
722194.721	4294233.92	4170	29-Jun-15	BRIDGETON BOREHOLE 1	133874.587	519
722194.362	4294233.76	4170	29-Jun-15	BRIDGETON BOREHOLE 1	133874.587	
722194.727	4294233.916	4791	29-Jun-15	BRIDGETON BOREHOLE 1	133875.701	520
722194.364	4294233.759	4791	29-Jun-15	BRIDGETON BOREHOLE 1	133875.701	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722194.73	4294233.916	4645	29-Jun-15	BRIDGETON BOREHOLE 1	133876.629	521
722194.361	4294233.762	4645	29-Jun-15	BRIDGETON BOREHOLE 1	133876.629	
722194.737	4294233.911	4825	29-Jun-15	BRIDGETON BOREHOLE 1	133877.67	522
722194.361	4294233.763	4825	29-Jun-15	BRIDGETON BOREHOLE 1	133877.67	
722189.468	4294268.559	5552	29-Jun-15	BRIDGETON BOREHOLE 1	134034.065	525
722189.005	4294268.051	5552	29-Jun-15	BRIDGETON BOREHOLE 1	134034.065	
722189.397	4294268.743	5621	29-Jun-15	BRIDGETON BOREHOLE 1	134035.442	526
722188.903	4294268.273	5621	29-Jun-15	BRIDGETON BOREHOLE 1	134035.442	
722189.331	4294268.742	5344	29-Jun-15	BRIDGETON BOREHOLE 1	134036.525	527
722188.777	4294268.393	5344	29-Jun-15	BRIDGETON BOREHOLE 1	134036.525	
722189.333	4294268.778	5886	29-Jun-15	BRIDGETON BOREHOLE 1	134037.592	528
722188.767	4294268.543	5886	29-Jun-15	BRIDGETON BOREHOLE 1	134037.592	
722189.393	4294268.79	6078	29-Jun-15	BRIDGETON BOREHOLE 1	134038.534	529
722188.859	4294268.523	6078	29-Jun-15	BRIDGETON BOREHOLE 1	134038.534	
722189.434	4294268.795	5389	29-Jun-15	BRIDGETON BOREHOLE 1	134039.453	530
722188.934	4294268.396	5389	29-Jun-15	BRIDGETON BOREHOLE 1	134039.453	
722189.432	4294268.793	5731	29-Jun-15	BRIDGETON BOREHOLE 1	134040.562	531
722188.956	4294268.235	5731	29-Jun-15	BRIDGETON BOREHOLE 1	134040.562	
722189.433	4294268.793	5684	29-Jun-15	BRIDGETON BOREHOLE 1	134041.537	532
722188.978	4294268.117	5684	29-Jun-15	BRIDGETON BOREHOLE 1	134041.537	
722189.438	4294268.796	5694	29-Jun-15	BRIDGETON BOREHOLE 1	134042.593	533
722188.998	4294268.012	5694	29-Jun-15	BRIDGETON BOREHOLE 1	134042.593	
722189.443	4294268.796	6000	29-Jun-15	BRIDGETON BOREHOLE 1	134043.658	534
722189.01	4294267.93	6000	29-Jun-15	BRIDGETON BOREHOLE 1	134043.658	
722189.504	4294268.76	5475	29-Jun-15	BRIDGETON BOREHOLE 1	134044.595	535
722189.059	4294267.856	5475	29-Jun-15	BRIDGETON BOREHOLE 1	134044.595	
722189.549	4294268.722	6072	29-Jun-15	BRIDGETON BOREHOLE 1	134045.409	536
722189.092	4294267.837	6072	29-Jun-15	BRIDGETON BOREHOLE 1	134045.409	
722189.555	4294268.697	6372	29-Jun-15	BRIDGETON BOREHOLE 1	134046.43	537
722189.095	4294267.867	6372	29-Jun-15	BRIDGETON BOREHOLE 1	134046.43	
722189.646	4294268.565	6123	29-Jun-15	BRIDGETON BOREHOLE 1	134047.463	538
722189.179	4294267.765	6123	29-Jun-15	BRIDGETON BOREHOLE 1	134047.463	
722189.737	4294268.285	7440	29-Jun-15	BRIDGETON BOREHOLE 1	134048.727	539
722189.206	4294267.847	7440	29-Jun-15	BRIDGETON BOREHOLE 1	134048.727	
722189.71	4294268.205	8670	29-Jun-15	BRIDGETON BOREHOLE 1	134049.589	540
722189.076	4294268.302	8670	29-Jun-15	BRIDGETON BOREHOLE 1	134049.589	
722189.735	4294268.134	6397	29-Jun-15	BRIDGETON BOREHOLE 1	134050.593	541
722189.06	4294268.606	6397	29-Jun-15	BRIDGETON BOREHOLE 1	134050.593	
722189.839	4294268.064	6434	29-Jun-15	BRIDGETON BOREHOLE 1	134051.444	542
722189.168	4294268.612	6434	29-Jun-15	BRIDGETON BOREHOLE 1	134051.444	
722190.155	4294267.944	7338	29-Jun-15	BRIDGETON BOREHOLE 1	134052.406	543
722189.45	4294268.521	7338	29-Jun-15	BRIDGETON BOREHOLE 1	134052.406	
722190.895	4294267.706	7054	29-Jun-15	BRIDGETON BOREHOLE 1	134053.536	544
722190.084	4294268.378	7054	29-Jun-15	BRIDGETON BOREHOLE 1	134053.536	
722191.662	4294267.439	6863	29-Jun-15	BRIDGETON BOREHOLE 1	134054.515	545
722190.772	4294268.188	6863	29-Jun-15	BRIDGETON BOREHOLE 1	134054.515	
722192.416	4294267.198	7866	29-Jun-15	BRIDGETON BOREHOLE 1	134055.608	546

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722191.474	4294267.974	7866	29-Jun-15	BRIDGETON BOREHOLE 1	134055.608	
722192.846	4294267.079	5956	29-Jun-15	BRIDGETON BOREHOLE 1	134056.351	547
722191.856	4294267.873	5956	29-Jun-15	BRIDGETON BOREHOLE 1	134056.351	
722193.56	4294266.854	5945	29-Jun-15	BRIDGETON BOREHOLE 1	134057.565	548
722192.527	4294267.64	5945	29-Jun-15	BRIDGETON BOREHOLE 1	134057.565	
722194.131	4294266.662	6097	29-Jun-15	BRIDGETON BOREHOLE 1	134058.479	549
722193.117	4294267.401	6097	29-Jun-15	BRIDGETON BOREHOLE 1	134058.479	
722194.905	4294266.412	8124	29-Jun-15	BRIDGETON BOREHOLE 1	134059.651	550
722193.926	4294267.082	8124	29-Jun-15	BRIDGETON BOREHOLE 1	134059.651	
722195.468	4294266.272	7041	29-Jun-15	BRIDGETON BOREHOLE 1	134060.473	551
722194.506	4294266.91	7041	29-Jun-15	BRIDGETON BOREHOLE 1	134060.473	
722196.266	4294266.057	6800	29-Jun-15	BRIDGETON BOREHOLE 1	134061.669	552
722195.301	4294266.697	6800	29-Jun-15	BRIDGETON BOREHOLE 1	134061.669	
722196.953	4294265.93	6260	29-Jun-15	BRIDGETON BOREHOLE 1	134062.599	553
722195.942	4294266.606	6260	29-Jun-15	BRIDGETON BOREHOLE 1	134062.599	
722197.314	4294266.225	6635	29-Jun-15	BRIDGETON BOREHOLE 1	134063.719	554
722196.46	4294266.855	6635	29-Jun-15	BRIDGETON BOREHOLE 1	134063.719	
722196.89	4294266.425	7208	29-Jun-15	BRIDGETON BOREHOLE 1	134064.529	555
722196.098	4294266.904	7208	29-Jun-15	BRIDGETON BOREHOLE 1	134064.529	
722195.896	4294266.52	6752	29-Jun-15	BRIDGETON BOREHOLE 1	134065.725	556
722195.207	4294266.826	6752	29-Jun-15	BRIDGETON BOREHOLE 1	134065.725	
722195.397	4294266.603	6248	29-Jun-15	BRIDGETON BOREHOLE 1	134066.367	557
722194.843	4294266.812	6248	29-Jun-15	BRIDGETON BOREHOLE 1	134066.367	
722194.614	4294266.761	6542	29-Jun-15	BRIDGETON BOREHOLE 1	134067.531	558
722194.268	4294266.803	6542	29-Jun-15	BRIDGETON BOREHOLE 1	134067.531	
722194.074	4294266.878	5835	29-Jun-15	BRIDGETON BOREHOLE 1	134068.443	559
722193.793	4294266.871	5835	29-Jun-15	BRIDGETON BOREHOLE 1	134068.443	
722193.414	4294267.092	5630	29-Jun-15	BRIDGETON BOREHOLE 1	134069.483	560
722193.146	4294267.071	5630	29-Jun-15	BRIDGETON BOREHOLE 1	134069.483	
722192.715	4294267.307	5611	29-Jun-15	BRIDGETON BOREHOLE 1	134070.515	561
722192.424	4294267.286	5611	29-Jun-15	BRIDGETON BOREHOLE 1	134070.515	
722192.025	4294267.479	5819	29-Jun-15	BRIDGETON BOREHOLE 1	134071.539	562
722191.689	4294267.462	5819	29-Jun-15	BRIDGETON BOREHOLE 1	134071.539	
722191.466	4294267.649	5838	29-Jun-15	BRIDGETON BOREHOLE 1	134072.442	563
722191.089	4294267.646	5838	29-Jun-15	BRIDGETON BOREHOLE 1	134072.442	
722190.773	4294267.893	6854	29-Jun-15	BRIDGETON BOREHOLE 1	134073.546	564
722190.367	4294267.938	6854	29-Jun-15	BRIDGETON BOREHOLE 1	134073.546	
722190.033	4294268.093	5553	29-Jun-15	BRIDGETON BOREHOLE 1	134074.6	565
722189.608	4294268.155	5553	29-Jun-15	BRIDGETON BOREHOLE 1	134074.6	
722189.418	4294268.274	5801	29-Jun-15	BRIDGETON BOREHOLE 1	134075.689	566
722188.981	4294268.309	5801	29-Jun-15	BRIDGETON BOREHOLE 1	134075.689	
722189.197	4294268.316	6120	29-Jun-15	BRIDGETON BOREHOLE 1	134076.51	567
722188.764	4294268.336	6120	29-Jun-15	BRIDGETON BOREHOLE 1	134076.51	
722188.937	4294268.315	6270	29-Jun-15	BRIDGETON BOREHOLE 1	134077.702	568
722188.523	4294268.309	6270	29-Jun-15	BRIDGETON BOREHOLE 1	134077.702	
722188.683	4294268.348	6457	29-Jun-15	BRIDGETON BOREHOLE 1	134078.454	569
722188.271	4294268.324	6457	29-Jun-15	BRIDGETON BOREHOLE 1	134078.454	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722188.211	4294268.457	6804	29-Jun-15	BRIDGETON BOREHOLE 1	134079.475	570
722187.783	4294268.411	6804	29-Jun-15	BRIDGETON BOREHOLE 1	134079.475	
722187.585	4294268.641	6291	29-Jun-15	BRIDGETON BOREHOLE 1	134080.598	571
722187.068	4294268.535	6291	29-Jun-15	BRIDGETON BOREHOLE 1	134080.598	
722186.913	4294268.885	5899	29-Jun-15	BRIDGETON BOREHOLE 1	134081.752	572
722186.351	4294268.762	5899	29-Jun-15	BRIDGETON BOREHOLE 1	134081.752	
722186.462	4294269.023	7012	29-Jun-15	BRIDGETON BOREHOLE 1	134082.615	573
722185.887	4294268.899	7012	29-Jun-15	BRIDGETON BOREHOLE 1	134082.615	
722185.939	4294269.132	6643	29-Jun-15	BRIDGETON BOREHOLE 1	134083.563	574
722185.343	4294268.995	6643	29-Jun-15	BRIDGETON BOREHOLE 1	134083.563	
722185.438	4294269.249	6820	29-Jun-15	BRIDGETON BOREHOLE 1	134084.455	575
722184.8	4294269.093	6820	29-Jun-15	BRIDGETON BOREHOLE 1	134084.455	
722184.92	4294269.405	6385	29-Jun-15	BRIDGETON BOREHOLE 1	134085.461	576
722184.239	4294269.238	6385	29-Jun-15	BRIDGETON BOREHOLE 1	134085.461	
722184.379	4294269.604	6846	29-Jun-15	BRIDGETON BOREHOLE 1	134086.593	577
722183.716	4294269.441	6846	29-Jun-15	BRIDGETON BOREHOLE 1	134086.593	
722183.843	4294269.798	6091	29-Jun-15	BRIDGETON BOREHOLE 1	134087.664	578
722183.174	4294269.63	6091	29-Jun-15	BRIDGETON BOREHOLE 1	134087.664	
722183.365	4294269.949	5902	29-Jun-15	BRIDGETON BOREHOLE 1	134088.525	579
722182.677	4294269.787	5902	29-Jun-15	BRIDGETON BOREHOLE 1	134088.525	
722182.81	4294270.089	6050	29-Jun-15	BRIDGETON BOREHOLE 1	134089.476	580
722182.111	4294269.939	6050	29-Jun-15	BRIDGETON BOREHOLE 1	134089.476	
722182.17	4294270.232	6228	29-Jun-15	BRIDGETON BOREHOLE 1	134090.606	581
722181.421	4294270.081	6228	29-Jun-15	BRIDGETON BOREHOLE 1	134090.606	
722181.712	4294270.415	5457	29-Jun-15	BRIDGETON BOREHOLE 1	134091.62	582
722180.901	4294270.252	5457	29-Jun-15	BRIDGETON BOREHOLE 1	134091.62	
722181.605	4294270.675	5462	29-Jun-15	BRIDGETON BOREHOLE 1	134092.526	583
722180.799	4294270.562	5462	29-Jun-15	BRIDGETON BOREHOLE 1	134092.526	
722181.698	4294270.829	5630	29-Jun-15	BRIDGETON BOREHOLE 1	134093.473	584
722180.952	4294270.786	5630	29-Jun-15	BRIDGETON BOREHOLE 1	134093.473	
722181.821	4294270.828	5836	29-Jun-15	BRIDGETON BOREHOLE 1	134094.387	585
722181.152	4294270.818	5836	29-Jun-15	BRIDGETON BOREHOLE 1	134094.387	
722182.006	4294270.791	5398	29-Jun-15	BRIDGETON BOREHOLE 1	134095.507	586
722181.463	4294270.756	5398	29-Jun-15	BRIDGETON BOREHOLE 1	134095.507	
722182.361	4294270.662	5391	29-Jun-15	BRIDGETON BOREHOLE 1	134096.544	587
722181.945	4294270.547	5391	29-Jun-15	BRIDGETON BOREHOLE 1	134096.544	
722182.942	4294270.513	5785	29-Jun-15	BRIDGETON BOREHOLE 1	134097.692	588
722182.526	4294270.401	5785	29-Jun-15	BRIDGETON BOREHOLE 1	134097.692	
722183.405	4294270.348	5294	29-Jun-15	BRIDGETON BOREHOLE 1	134098.497	589
722182.95	4294270.227	5294	29-Jun-15	BRIDGETON BOREHOLE 1	134098.497	
722183.883	4294270.189	6098	29-Jun-15	BRIDGETON BOREHOLE 1	134099.415	590
722183.412	4294270.018	6098	29-Jun-15	BRIDGETON BOREHOLE 1	134099.415	
722184.415	4294270.063	5736	29-Jun-15	BRIDGETON BOREHOLE 1	134100.624	591
722183.946	4294269.863	5736	29-Jun-15	BRIDGETON BOREHOLE 1	134100.624	
722184.98	4294269.891	5499	29-Jun-15	BRIDGETON BOREHOLE 1	134101.706	592
722184.503	4294269.701	5499	29-Jun-15	BRIDGETON BOREHOLE 1	134101.706	
722185.458	4294269.761	6093	29-Jun-15	BRIDGETON BOREHOLE 1	134102.482	593

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722184.938	4294269.604	6093	29-Jun-15	BRIDGETON BOREHOLE 1	134102.482	
722186.123	4294269.644	5795	29-Jun-15	BRIDGETON BOREHOLE 1	134103.558	594
722185.546	4294269.541	5795	29-Jun-15	BRIDGETON BOREHOLE 1	134103.558	
722186.692	4294269.527	5712	29-Jun-15	BRIDGETON BOREHOLE 1	134104.647	595
722186.109	4294269.473	5712	29-Jun-15	BRIDGETON BOREHOLE 1	134104.647	
722187.173	4294269.394	5860	29-Jun-15	BRIDGETON BOREHOLE 1	134105.585	596
722186.542	4294269.391	5860	29-Jun-15	BRIDGETON BOREHOLE 1	134105.585	
722187.78	4294269.163	5794	29-Jun-15	BRIDGETON BOREHOLE 1	134106.64	597
722187.071	4294269.224	5794	29-Jun-15	BRIDGETON BOREHOLE 1	134106.64	
722188.348	4294268.886	5876	29-Jun-15	BRIDGETON BOREHOLE 1	134107.523	598
722187.573	4294269.07	5876	29-Jun-15	BRIDGETON BOREHOLE 1	134107.523	
722188.799	4294268.7	6403	29-Jun-15	BRIDGETON BOREHOLE 1	134108.467	599
722188.091	4294268.935	6403	29-Jun-15	BRIDGETON BOREHOLE 1	134108.467	
722189.313	4294268.562	7570	29-Jun-15	BRIDGETON BOREHOLE 1	134109.538	600
722188.722	4294268.72	7570	29-Jun-15	BRIDGETON BOREHOLE 1	134109.538	
722189.817	4294268.44	7472	29-Jun-15	BRIDGETON BOREHOLE 1	134110.441	601
722189.211	4294268.586	7472	29-Jun-15	BRIDGETON BOREHOLE 1	134110.441	
722190.336	4294268.359	6488	29-Jun-15	BRIDGETON BOREHOLE 1	134111.63	602
722189.75	4294268.48	6488	29-Jun-15	BRIDGETON BOREHOLE 1	134111.63	
722190.866	4294268.203	6063	29-Jun-15	BRIDGETON BOREHOLE 1	134112.61	603
722190.237	4294268.344	6063	29-Jun-15	BRIDGETON BOREHOLE 1	134112.61	
722191.315	4294268.175	6023	29-Jun-15	BRIDGETON BOREHOLE 1	134113.453	604
722190.688	4294268.197	6023	29-Jun-15	BRIDGETON BOREHOLE 1	134113.453	
722191.817	4294268.03	6293	29-Jun-15	BRIDGETON BOREHOLE 1	134114.517	605
722191.227	4294268.018	6293	29-Jun-15	BRIDGETON BOREHOLE 1	134114.517	
722192.282	4294267.716	5593	29-Jun-15	BRIDGETON BOREHOLE 1	134115.453	606
722191.658	4294267.857	5593	29-Jun-15	BRIDGETON BOREHOLE 1	134115.453	
722192.752	4294267.564	5111	29-Jun-15	BRIDGETON BOREHOLE 1	134116.618	607
722192.166	4294267.671	5111	29-Jun-15	BRIDGETON BOREHOLE 1	134116.618	
722193.375	4294267.44	5252	29-Jun-15	BRIDGETON BOREHOLE 1	134117.762	608
722192.797	4294267.534	5252	29-Jun-15	BRIDGETON BOREHOLE 1	134117.762	
722193.905	4294267.346	5557	29-Jun-15	BRIDGETON BOREHOLE 1	134118.553	609
722193.249	4294267.482	5557	29-Jun-15	BRIDGETON BOREHOLE 1	134118.553	
722194.641	4294267.181	5728	29-Jun-15	BRIDGETON BOREHOLE 1	134119.677	610
722193.882	4294267.357	5728	29-Jun-15	BRIDGETON BOREHOLE 1	134119.677	
722195.107	4294267.021	5772	29-Jun-15	BRIDGETON BOREHOLE 1	134120.445	611
722194.313	4294267.214	5772	29-Jun-15	BRIDGETON BOREHOLE 1	134120.445	
722195.732	4294266.77	5962	29-Jun-15	BRIDGETON BOREHOLE 1	134121.643	612
722194.988	4294266.955	5962	29-Jun-15	BRIDGETON BOREHOLE 1	134121.643	
722196.233	4294266.629	5865	29-Jun-15	BRIDGETON BOREHOLE 1	134122.59	613
722195.544	4294266.797	5865	29-Jun-15	BRIDGETON BOREHOLE 1	134122.59	
722196.865	4294266.49	5969	29-Jun-15	BRIDGETON BOREHOLE 1	134123.78	614
722196.181	4294266.641	5969	29-Jun-15	BRIDGETON BOREHOLE 1	134123.78	
722197.259	4294266.477	6042	29-Jun-15	BRIDGETON BOREHOLE 1	134124.454	615
722196.599	4294266.479	6042	29-Jun-15	BRIDGETON BOREHOLE 1	134124.454	
722197.867	4294266.241	6136	29-Jun-15	BRIDGETON BOREHOLE 1	134125.593	616
722197.344	4294266.096	6136	29-Jun-15	BRIDGETON BOREHOLE 1	134125.593	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722198.607	4294265.993	6004	29-Jun-15	BRIDGETON BOREHOLE 1	134126.695	617
722198.152	4294265.763	6004	29-Jun-15	BRIDGETON BOREHOLE 1	134126.695	
722199.245	4294265.935	5979	29-Jun-15	BRIDGETON BOREHOLE 1	134127.599	618
722198.761	4294265.494	5979	29-Jun-15	BRIDGETON BOREHOLE 1	134127.599	
722199.662	4294265.921	6397	29-Jun-15	BRIDGETON BOREHOLE 1	134128.31	619
722199.183	4294265.35	6397	29-Jun-15	BRIDGETON BOREHOLE 1	134128.31	
722200.37	4294265.881	6074	29-Jun-15	BRIDGETON BOREHOLE 1	134129.689	620
722199.935	4294265.325	6074	29-Jun-15	BRIDGETON BOREHOLE 1	134129.689	
722200.822	4294265.841	5478	29-Jun-15	BRIDGETON BOREHOLE 1	134130.526	621
722200.373	4294265.31	5478	29-Jun-15	BRIDGETON BOREHOLE 1	134130.526	
722201.803	4294265.892	5264	29-Jun-15	BRIDGETON BOREHOLE 1	134131.608	622
722200.945	4294265.269	5264	29-Jun-15	BRIDGETON BOREHOLE 1	134131.608	
722202.265	4294265.738	5811	29-Jun-15	BRIDGETON BOREHOLE 1	134132.622	623
722201.552	4294265.193	5811	29-Jun-15	BRIDGETON BOREHOLE 1	134132.622	
722202.644	4294265.757	5623	29-Jun-15	BRIDGETON BOREHOLE 1	134133.63	624
722202.134	4294265.318	5623	29-Jun-15	BRIDGETON BOREHOLE 1	134133.63	
722202.739	4294265.999	5915	29-Jun-15	BRIDGETON BOREHOLE 1	134134.456	625
722202.219	4294265.503	5915	29-Jun-15	BRIDGETON BOREHOLE 1	134134.456	
722202.395	4294266.242	5412	29-Jun-15	BRIDGETON BOREHOLE 1	134135.469	626
722201.905	4294265.559	5412	29-Jun-15	BRIDGETON BOREHOLE 1	134135.469	
722201.841	4294266.273	5617	29-Jun-15	BRIDGETON BOREHOLE 1	134136.406	627
722201.492	4294265.525	5617	29-Jun-15	BRIDGETON BOREHOLE 1	134136.406	
722201.287	4294266.362	5147	29-Jun-15	BRIDGETON BOREHOLE 1	134137.386	628
722200.99	4294265.621	5147	29-Jun-15	BRIDGETON BOREHOLE 1	134137.386	
722200.726	4294266.428	4800	29-Jun-15	BRIDGETON BOREHOLE 1	134138.621	629
722200.352	4294265.854	4800	29-Jun-15	BRIDGETON BOREHOLE 1	134138.621	
722200.094	4294266.442	4717	29-Jun-15	BRIDGETON BOREHOLE 1	134139.706	630
722199.727	4294266.079	4717	29-Jun-15	BRIDGETON BOREHOLE 1	134139.706	
722199.655	4294266.57	5278	29-Jun-15	BRIDGETON BOREHOLE 1	134140.52	631
722199.242	4294266.256	5278	29-Jun-15	BRIDGETON BOREHOLE 1	134140.52	
722199.066	4294266.718	5107	29-Jun-15	BRIDGETON BOREHOLE 1	134141.608	632
722198.597	4294266.433	5107	29-Jun-15	BRIDGETON BOREHOLE 1	134141.608	
722198.569	4294266.781	5160	29-Jun-15	BRIDGETON BOREHOLE 1	134142.508	633
722198.074	4294266.499	5160	29-Jun-15	BRIDGETON BOREHOLE 1	134142.508	
722197.968	4294266.831	5460	29-Jun-15	BRIDGETON BOREHOLE 1	134143.589	634
722197.458	4294266.565	5460	29-Jun-15	BRIDGETON BOREHOLE 1	134143.589	
722197.375	4294266.909	5336	29-Jun-15	BRIDGETON BOREHOLE 1	134144.665	635
722196.849	4294266.674	5336	29-Jun-15	BRIDGETON BOREHOLE 1	134144.665	
722196.826	4294266.972	5236	29-Jun-15	BRIDGETON BOREHOLE 1	134145.589	636
722196.308	4294266.773	5236	29-Jun-15	BRIDGETON BOREHOLE 1	134145.589	
722196.314	4294267.077	5473	29-Jun-15	BRIDGETON BOREHOLE 1	134146.468	637
722195.791	4294266.887	5473	29-Jun-15	BRIDGETON BOREHOLE 1	134146.468	
722195.697	4294267.286	5441	29-Jun-15	BRIDGETON BOREHOLE 1	134147.523	638
722195.154	4294267.115	5441	29-Jun-15	BRIDGETON BOREHOLE 1	134147.523	
722195.069	4294267.533	5340	29-Jun-15	BRIDGETON BOREHOLE 1	134148.664	639
722194.476	4294267.391	5340	29-Jun-15	BRIDGETON BOREHOLE 1	134148.664	
722194.469	4294267.709	5321	29-Jun-15	BRIDGETON BOREHOLE 1	134149.681	640

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722193.919	4294267.562	5321	29-Jun-15	BRIDGETON BOREHOLE 1	134149.681	
722193.984	4294267.845	5243	29-Jun-15	BRIDGETON BOREHOLE 1	134150.506	641
722193.462	4294267.728	5243	29-Jun-15	BRIDGETON BOREHOLE 1	134150.506	
722193.479	4294268.009	5792	29-Jun-15	BRIDGETON BOREHOLE 1	134151.387	642
722192.958	4294267.912	5792	29-Jun-15	BRIDGETON BOREHOLE 1	134151.387	
722192.796	4294268.27	5388	29-Jun-15	BRIDGETON BOREHOLE 1	134152.602	643
722192.301	4294268.105	5388	29-Jun-15	BRIDGETON BOREHOLE 1	134152.602	
722192.304	4294268.436	5378	29-Jun-15	BRIDGETON BOREHOLE 1	134153.527	644
722191.797	4294268.226	5378	29-Jun-15	BRIDGETON BOREHOLE 1	134153.527	
722191.855	4294268.55	5470	29-Jun-15	BRIDGETON BOREHOLE 1	134154.345	645
722191.301	4294268.352	5470	29-Jun-15	BRIDGETON BOREHOLE 1	134154.345	
722191.087	4294268.731	5492	29-Jun-15	BRIDGETON BOREHOLE 1	134155.547	646
722190.522	4294268.577	5492	29-Jun-15	BRIDGETON BOREHOLE 1	134155.547	
722190.435	4294268.813	5309	29-Jun-15	BRIDGETON BOREHOLE 1	134156.601	647
722189.904	4294268.652	5309	29-Jun-15	BRIDGETON BOREHOLE 1	134156.601	
722189.961	4294268.834	5484	29-Jun-15	BRIDGETON BOREHOLE 1	134157.441	648
722189.428	4294268.645	5484	29-Jun-15	BRIDGETON BOREHOLE 1	134157.441	
722189.442	4294268.882	5154	29-Jun-15	BRIDGETON BOREHOLE 1	134158.357	649
722188.883	4294268.674	5154	29-Jun-15	BRIDGETON BOREHOLE 1	134158.357	
722188.814	4294269.031	5097	29-Jun-15	BRIDGETON BOREHOLE 1	134159.49	650
722188.225	4294268.853	5097	29-Jun-15	BRIDGETON BOREHOLE 1	134159.49	
722188.147	4294269.321	5109	29-Jun-15	BRIDGETON BOREHOLE 1	134160.658	651
722187.564	4294269.095	5109	29-Jun-15	BRIDGETON BOREHOLE 1	134160.658	
722187.621	4294269.533	5386	29-Jun-15	BRIDGETON BOREHOLE 1	134161.526	652
722187.046	4294269.267	5386	29-Jun-15	BRIDGETON BOREHOLE 1	134161.526	
722186.902	4294269.737	5295	29-Jun-15	BRIDGETON BOREHOLE 1	134162.741	653
722186.343	4294269.444	5295	29-Jun-15	BRIDGETON BOREHOLE 1	134162.741	
722186.556	4294269.822	5295	29-Jun-15	BRIDGETON BOREHOLE 1	134163.41	654
722185.987	4294269.544	5295	29-Jun-15	BRIDGETON BOREHOLE 1	134163.41	
722185.977	4294269.954	5521	29-Jun-15	BRIDGETON BOREHOLE 1	134164.446	655
722185.406	4294269.745	5521	29-Jun-15	BRIDGETON BOREHOLE 1	134164.446	
722185.305	4294270.078	5123	29-Jun-15	BRIDGETON BOREHOLE 1	134165.598	656
722184.704	4294269.958	5123	29-Jun-15	BRIDGETON BOREHOLE 1	134165.598	
722184.806	4294270.182	4817	29-Jun-15	BRIDGETON BOREHOLE 1	134166.508	657
722184.156	4294270.116	4817	29-Jun-15	BRIDGETON BOREHOLE 1	134166.508	
722184.231	4294270.341	5079	29-Jun-15	BRIDGETON BOREHOLE 1	134167.524	658
722183.593	4294270.313	5079	29-Jun-15	BRIDGETON BOREHOLE 1	134167.524	
722183.761	4294270.476	4950	29-Jun-15	BRIDGETON BOREHOLE 1	134168.385	659
722183.16	4294270.466	4950	29-Jun-15	BRIDGETON BOREHOLE 1	134168.385	
722183.172	4294270.611	5289	29-Jun-15	BRIDGETON BOREHOLE 1	134169.495	660
722182.592	4294270.607	5289	29-Jun-15	BRIDGETON BOREHOLE 1	134169.495	
722182.69	4294270.722	5300	29-Jun-15	BRIDGETON BOREHOLE 1	134170.443	661
722182.089	4294270.699	5300	29-Jun-15	BRIDGETON BOREHOLE 1	134170.443	
722182.199	4294270.906	4938	29-Jun-15	BRIDGETON BOREHOLE 1	134171.593	662
722181.582	4294270.882	4938	29-Jun-15	BRIDGETON BOREHOLE 1	134171.593	
722182.033	4294271.059	5020	29-Jun-15	BRIDGETON BOREHOLE 1	134172.46	663
722181.417	4294270.997	5020	29-Jun-15	BRIDGETON BOREHOLE 1	134172.46	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722182.092	4294271.233	5141	29-Jun-15	BRIDGETON BOREHOLE 1	134173.601	664
722181.521	4294271.132	5141	29-Jun-15	BRIDGETON BOREHOLE 1	134173.601	
722182.252	4294271.288	5322	29-Jun-15	BRIDGETON BOREHOLE 1	134174.589	665
722181.768	4294271.267	5322	29-Jun-15	BRIDGETON BOREHOLE 1	134174.589	
722182.465	4294271.187	5513	29-Jun-15	BRIDGETON BOREHOLE 1	134175.407	666
722181.97	4294271.271	5513	29-Jun-15	BRIDGETON BOREHOLE 1	134175.407	
722182.851	4294271.182	5216	29-Jun-15	BRIDGETON BOREHOLE 1	134176.469	667
722182.212	4294271.153	5216	29-Jun-15	BRIDGETON BOREHOLE 1	134176.469	
722183.421	4294271.224	5086	29-Jun-15	BRIDGETON BOREHOLE 1	134177.599	668
722182.647	4294270.987	5086	29-Jun-15	BRIDGETON BOREHOLE 1	134177.599	
722183.979	4294271.04	5426	29-Jun-15	BRIDGETON BOREHOLE 1	134178.461	669
722183.143	4294270.772	5426	29-Jun-15	BRIDGETON BOREHOLE 1	134178.461	
722184.678	4294270.855	4935	29-Jun-15	BRIDGETON BOREHOLE 1	134179.643	670
722183.811	4294270.51	4935	29-Jun-15	BRIDGETON BOREHOLE 1	134179.643	
722185.025	4294270.766	5513	29-Jun-15	BRIDGETON BOREHOLE 1	134180.386	671
722184.188	4294270.4	5513	29-Jun-15	BRIDGETON BOREHOLE 1	134180.386	
722185.611	4294270.567	5696	29-Jun-15	BRIDGETON BOREHOLE 1	134181.424	672
722184.751	4294270.231	5696	29-Jun-15	BRIDGETON BOREHOLE 1	134181.424	
722186.328	4294270.358	5356	29-Jun-15	BRIDGETON BOREHOLE 1	134182.615	673
722185.387	4294270.092	5356	29-Jun-15	BRIDGETON BOREHOLE 1	134182.615	
722186.817	4294270.184	5135	29-Jun-15	BRIDGETON BOREHOLE 1	134183.56	674
722185.933	4294269.925	5135	29-Jun-15	BRIDGETON BOREHOLE 1	134183.56	
722187.331	4294270.02	5056	29-Jun-15	BRIDGETON BOREHOLE 1	134184.516	675
722186.504	4294269.716	5056	29-Jun-15	BRIDGETON BOREHOLE 1	134184.516	
722187.838	4294269.885	4756	29-Jun-15	BRIDGETON BOREHOLE 1	134185.648	676
722187.066	4294269.521	4756	29-Jun-15	BRIDGETON BOREHOLE 1	134185.648	
722188.146	4294269.786	5210	29-Jun-15	BRIDGETON BOREHOLE 1	134186.301	677
722187.368	4294269.398	5210	29-Jun-15	BRIDGETON BOREHOLE 1	134186.301	
722188.968	4294269.545	5226	29-Jun-15	BRIDGETON BOREHOLE 1	134187.692	678
722188.094	4294269.131	5226	29-Jun-15	BRIDGETON BOREHOLE 1	134187.692	
722189.222	4294269.299	4829	29-Jun-15	BRIDGETON BOREHOLE 1	134188.509	679
722188.576	4294268.964	4829	29-Jun-15	BRIDGETON BOREHOLE 1	134188.509	
722189.629	4294268.965	5536	29-Jun-15	BRIDGETON BOREHOLE 1	134189.594	680
722189.22	4294268.69	5536	29-Jun-15	BRIDGETON BOREHOLE 1	134189.594	
722190.058	4294268.842	5379	29-Jun-15	BRIDGETON BOREHOLE 1	134190.456	681
722189.638	4294268.555	5379	29-Jun-15	BRIDGETON BOREHOLE 1	134190.456	
722190.629	4294268.755	5913	29-Jun-15	BRIDGETON BOREHOLE 1	134191.567	682
722190.214	4294268.453	5913	29-Jun-15	BRIDGETON BOREHOLE 1	134191.567	
722191.082	4294268.645	5696	29-Jun-15	BRIDGETON BOREHOLE 1	134192.339	683
722190.688	4294268.324	5696	29-Jun-15	BRIDGETON BOREHOLE 1	134192.339	
722191.766	4294268.417	5266	29-Jun-15	BRIDGETON BOREHOLE 1	134193.507	684
722191.373	4294268.077	5266	29-Jun-15	BRIDGETON BOREHOLE 1	134193.507	
722192.347	4294268.243	5355	29-Jun-15	BRIDGETON BOREHOLE 1	134194.436	685
722191.961	4294267.906	5355	29-Jun-15	BRIDGETON BOREHOLE 1	134194.436	
722193.188	4294268.051	5374	29-Jun-15	BRIDGETON BOREHOLE 1	134195.528	686
722192.66	4294267.725	5374	29-Jun-15	BRIDGETON BOREHOLE 1	134195.528	
722193.885	4294268.035	5700	29-Jun-15	BRIDGETON BOREHOLE 1	134196.591	687

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722193.228	4294267.574	5700	29-Jun-15	BRIDGETON BOREHOLE 1	134196.591	
722194.278	4294267.837	6457	29-Jun-15	BRIDGETON BOREHOLE 1	134197.528	688
722193.729	4294267.491	6457	29-Jun-15	BRIDGETON BOREHOLE 1	134197.528	
722194.815	4294267.675	5481	29-Jun-15	BRIDGETON BOREHOLE 1	134198.418	689
722194.308	4294267.366	5481	29-Jun-15	BRIDGETON BOREHOLE 1	134198.418	
722195.651	4294267.647	4935	29-Jun-15	BRIDGETON BOREHOLE 1	134199.593	690
722195.05	4294267.135	4935	29-Jun-15	BRIDGETON BOREHOLE 1	134199.593	
722196.016	4294267.378	5874	29-Jun-15	BRIDGETON BOREHOLE 1	134200.467	691
722195.465	4294267.028	5874	29-Jun-15	BRIDGETON BOREHOLE 1	134200.467	
722196.627	4294267.018	5546	29-Jun-15	BRIDGETON BOREHOLE 1	134201.673	692
722196.007	4294266.966	5546	29-Jun-15	BRIDGETON BOREHOLE 1	134201.673	
722197.076	4294266.883	5242	29-Jun-15	BRIDGETON BOREHOLE 1	134202.439	693
722196.231	4294267.011	5242	29-Jun-15	BRIDGETON BOREHOLE 1	134202.439	
722197.815	4294266.694	5476	29-Jun-15	BRIDGETON BOREHOLE 1	134203.596	694
722196.698	4294267.05	5476	29-Jun-15	BRIDGETON BOREHOLE 1	134203.596	
722198.54	4294266.568	5510	29-Jun-15	BRIDGETON BOREHOLE 1	134204.676	695
722197.484	4294266.873	5510	29-Jun-15	BRIDGETON BOREHOLE 1	134204.676	
722199.232	4294266.456	5784	29-Jun-15	BRIDGETON BOREHOLE 1	134205.778	696
722198.456	4294266.539	5784	29-Jun-15	BRIDGETON BOREHOLE 1	134205.778	
722199.71	4294266.361	5609	29-Jun-15	BRIDGETON BOREHOLE 1	134206.521	697
722199.059	4294266.353	5609	29-Jun-15	BRIDGETON BOREHOLE 1	134206.521	
722200.319	4294266.258	5585	29-Jun-15	BRIDGETON BOREHOLE 1	134207.534	698
722199.83	4294266.139	5585	29-Jun-15	BRIDGETON BOREHOLE 1	134207.534	
722201.013	4294266.1	6111	29-Jun-15	BRIDGETON BOREHOLE 1	134208.629	699
722200.449	4294265.996	6111	29-Jun-15	BRIDGETON BOREHOLE 1	134208.629	
722201.529	4294265.99	5471	29-Jun-15	BRIDGETON BOREHOLE 1	134209.43	700
722200.859	4294265.933	5471	29-Jun-15	BRIDGETON BOREHOLE 1	134209.43	
722202.057	4294265.929	4922	29-Jun-15	BRIDGETON BOREHOLE 1	134210.342	701
722201.38	4294265.86	4922	29-Jun-15	BRIDGETON BOREHOLE 1	134210.342	
722202.6	4294266.167	5109	29-Jun-15	BRIDGETON BOREHOLE 1	134211.701	702
722202.016	4294266.003	5109	29-Jun-15	BRIDGETON BOREHOLE 1	134211.701	
722202.554	4294266.556	5131	29-Jun-15	BRIDGETON BOREHOLE 1	134212.442	703
722201.974	4294266.172	5131	29-Jun-15	BRIDGETON BOREHOLE 1	134212.442	
722202.019	4294266.982	5151	29-Jun-15	BRIDGETON BOREHOLE 1	134213.589	704
722201.369	4294266.384	5151	29-Jun-15	BRIDGETON BOREHOLE 1	134213.589	
722201.352	4294266.958	5042	29-Jun-15	BRIDGETON BOREHOLE 1	134214.537	705
722200.771	4294266.515	5042	29-Jun-15	BRIDGETON BOREHOLE 1	134214.537	
722200.807	4294266.984	5311	29-Jun-15	BRIDGETON BOREHOLE 1	134215.388	706
722200.33	4294266.532	5311	29-Jun-15	BRIDGETON BOREHOLE 1	134215.388	
722200.162	4294267.151	5537	29-Jun-15	BRIDGETON BOREHOLE 1	134216.595	707
722199.803	4294266.466	5537	29-Jun-15	BRIDGETON BOREHOLE 1	134216.595	
722199.425	4294267.29	4900	29-Jun-15	BRIDGETON BOREHOLE 1	134217.762	708
722199.202	4294266.603	4900	29-Jun-15	BRIDGETON BOREHOLE 1	134217.762	
722198.965	4294267.396	4646	29-Jun-15	BRIDGETON BOREHOLE 1	134218.513	709
722198.777	4294266.674	4646	29-Jun-15	BRIDGETON BOREHOLE 1	134218.513	
722198.45	4294267.649	5193	29-Jun-15	BRIDGETON BOREHOLE 1	134219.419	710
722198.28	4294266.733	5193	29-Jun-15	BRIDGETON BOREHOLE 1	134219.419	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722197.884	4294267.943	5328	29-Jun-15	BRIDGETON BOREHOLE 1	134220.447	711
722197.728	4294266.833	5328	29-Jun-15	BRIDGETON BOREHOLE 1	134220.447	
722197.354	4294268.051	4850	29-Jun-15	BRIDGETON BOREHOLE 1	134221.344	712
722197.151	4294266.953	4850	29-Jun-15	BRIDGETON BOREHOLE 1	134221.344	
722196.507	4294268.288	5060	29-Jun-15	BRIDGETON BOREHOLE 1	134222.626	713
722196.246	4294267.234	5060	29-Jun-15	BRIDGETON BOREHOLE 1	134222.626	
722195.992	4294268.409	5209	29-Jun-15	BRIDGETON BOREHOLE 1	134223.642	714
722195.606	4294267.452	5209	29-Jun-15	BRIDGETON BOREHOLE 1	134223.642	
722195.487	4294268.525	5345	29-Jun-15	BRIDGETON BOREHOLE 1	134224.542	715
722195.016	4294267.648	5345	29-Jun-15	BRIDGETON BOREHOLE 1	134224.542	
722194.956	4294268.655	5444	29-Jun-15	BRIDGETON BOREHOLE 1	134225.42	716
722194.402	4294267.829	5444	29-Jun-15	BRIDGETON BOREHOLE 1	134225.42	
722194.385	4294268.785	5469	29-Jun-15	BRIDGETON BOREHOLE 1	134226.316	717
722193.784	4294267.963	5469	29-Jun-15	BRIDGETON BOREHOLE 1	134226.316	
722193.609	4294268.894	5251	29-Jun-15	BRIDGETON BOREHOLE 1	134227.536	718
722193.002	4294268.18	5251	29-Jun-15	BRIDGETON BOREHOLE 1	134227.536	
722193.031	4294268.856	5376	29-Jun-15	BRIDGETON BOREHOLE 1	134228.677	719
722192.305	4294268.418	5376	29-Jun-15	BRIDGETON BOREHOLE 1	134228.677	
722192.485	4294269.133	5349	29-Jun-15	BRIDGETON BOREHOLE 1	134229.535	720
722191.778	4294268.58	5349	29-Jun-15	BRIDGETON BOREHOLE 1	134229.535	
722192.135	4294269.111	5431	29-Jun-15	BRIDGETON BOREHOLE 1	134230.6	721
722191.112	4294268.778	5431	29-Jun-15	BRIDGETON BOREHOLE 1	134230.6	
722191.475	4294269.413	5980	29-Jun-15	BRIDGETON BOREHOLE 1	134231.592	722
722190.55	4294269.003	5980	29-Jun-15	BRIDGETON BOREHOLE 1	134231.592	
722190.38	4294269.603	5186	29-Jun-15	BRIDGETON BOREHOLE 1	134232.659	723
722189.942	4294269.152	5186	29-Jun-15	BRIDGETON BOREHOLE 1	134232.659	
722190.18	4294269.506	4837	29-Jun-15	BRIDGETON BOREHOLE 1	134233.579	724
722189.377	4294269.241	4837	29-Jun-15	BRIDGETON BOREHOLE 1	134233.579	
722189.775	4294269.64	5623	29-Jun-15	BRIDGETON BOREHOLE 1	134234.643	725
722188.795	4294269.447	5623	29-Jun-15	BRIDGETON BOREHOLE 1	134234.643	
722189.033	4294269.881	5525	29-Jun-15	BRIDGETON BOREHOLE 1	134235.723	726
722188.189	4294269.755	5525	29-Jun-15	BRIDGETON BOREHOLE 1	134235.723	
722188.364	4294270.053	5388	29-Jun-15	BRIDGETON BOREHOLE 1	134236.528	727
722187.734	4294269.943	5388	29-Jun-15	BRIDGETON BOREHOLE 1	134236.528	
722187.843	4294270.248	5640	29-Jun-15	BRIDGETON BOREHOLE 1	134237.445	728
722187.265	4294270.116	5640	29-Jun-15	BRIDGETON BOREHOLE 1	134237.445	
722187.593	4294270.425	5280	29-Jun-15	BRIDGETON BOREHOLE 1	134238.299	729
722186.846	4294270.281	5280	29-Jun-15	BRIDGETON BOREHOLE 1	134238.299	
722187.156	4294270.587	4747	29-Jun-15	BRIDGETON BOREHOLE 1	134239.415	730
722186.295	4294270.518	4747	29-Jun-15	BRIDGETON BOREHOLE 1	134239.415	
722186.675	4294270.73	4703	29-Jun-15	BRIDGETON BOREHOLE 1	134240.509	731
722185.72	4294270.726	4703	29-Jun-15	BRIDGETON BOREHOLE 1	134240.509	
722186.012	4294270.865	5908	29-Jun-15	BRIDGETON BOREHOLE 1	134241.622	732
722185.064	4294270.833	5908	29-Jun-15	BRIDGETON BOREHOLE 1	134241.622	
722185.631	4294270.901	5618	29-Jun-15	BRIDGETON BOREHOLE 1	134242.343	733
722184.644	4294270.891	5618	29-Jun-15	BRIDGETON BOREHOLE 1	134242.343	
722185.016	4294270.976	5290	29-Jun-15	BRIDGETON BOREHOLE 1	134243.479	734

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722183.978	4294271.043	5290	29-Jun-15	BRIDGETON BOREHOLE 1	134243.479	
722184.336	4294271.13	5638	29-Jun-15	BRIDGETON BOREHOLE 1	134244.532	735
722183.382	4294271.219	5638	29-Jun-15	BRIDGETON BOREHOLE 1	134244.532	
722183.662	4294271.294	5564	29-Jun-15	BRIDGETON BOREHOLE 1	134245.593	736
722182.791	4294271.391	5564	29-Jun-15	BRIDGETON BOREHOLE 1	134245.593	
722183.197	4294271.399	5822	29-Jun-15	BRIDGETON BOREHOLE 1	134246.503	737
722182.304	4294271.513	5822	29-Jun-15	BRIDGETON BOREHOLE 1	134246.503	
722182.691	4294271.54	5697	29-Jun-15	BRIDGETON BOREHOLE 1	134247.598	738
722181.791	4294271.672	5697	29-Jun-15	BRIDGETON BOREHOLE 1	134247.598	
722182.371	4294271.753	5664	29-Jun-15	BRIDGETON BOREHOLE 1	134248.471	739
722181.565	4294271.851	5664	29-Jun-15	BRIDGETON BOREHOLE 1	134248.471	
722182.29	4294272	5886	29-Jun-15	BRIDGETON BOREHOLE 1	134249.475	740
722181.619	4294271.985	5886	29-Jun-15	BRIDGETON BOREHOLE 1	134249.475	
722182.432	4294272.32	6071	29-Jun-15	BRIDGETON BOREHOLE 1	134250.629	741
722181.906	4294271.989	6071	29-Jun-15	BRIDGETON BOREHOLE 1	134250.629	
722182.618	4294272.267	5291	29-Jun-15	BRIDGETON BOREHOLE 1	134251.745	742
722182.403	4294271.806	5291	29-Jun-15	BRIDGETON BOREHOLE 1	134251.745	
722183.04	4294272.23	5864	29-Jun-15	BRIDGETON BOREHOLE 1	134252.575	743
722182.844	4294271.675	5864	29-Jun-15	BRIDGETON BOREHOLE 1	134252.575	
722183.8	4294271.977	5241	29-Jun-15	BRIDGETON BOREHOLE 1	134253.711	744
722183.383	4294271.568	5241	29-Jun-15	BRIDGETON BOREHOLE 1	134253.711	
722184.209	4294271.902	5460	29-Jun-15	BRIDGETON BOREHOLE 1	134254.525	745
722183.627	4294271.549	5460	29-Jun-15	BRIDGETON BOREHOLE 1	134254.525	
722184.586	4294271.725	5021	29-Jun-15	BRIDGETON BOREHOLE 1	134255.45	746
722183.896	4294271.531	5021	29-Jun-15	BRIDGETON BOREHOLE 1	134255.45	
722185.006	4294271.406	5239	29-Jun-15	BRIDGETON BOREHOLE 1	134256.263	747
722184.231	4294271.466	5239	29-Jun-15	BRIDGETON BOREHOLE 1	134256.263	
722185.82	4294271.345	4995	29-Jun-15	BRIDGETON BOREHOLE 1	134257.541	748
722184.811	4294271.297	4995	29-Jun-15	BRIDGETON BOREHOLE 1	134257.541	
722186.308	4294271.171	5187	29-Jun-15	BRIDGETON BOREHOLE 1	134258.451	749
722185.322	4294271.087	5187	29-Jun-15	BRIDGETON BOREHOLE 1	134258.451	
722186.852	4294270.779	5265	29-Jun-15	BRIDGETON BOREHOLE 1	134259.515	750
722186.167	4294270.698	5265	29-Jun-15	BRIDGETON BOREHOLE 1	134259.515	
722187.378	4294270.661	4911	29-Jun-15	BRIDGETON BOREHOLE 1	134260.519	751
722186.961	4294270.397	4911	29-Jun-15	BRIDGETON BOREHOLE 1	134260.519	
722188.04	4294270.483	4938	29-Jun-15	BRIDGETON BOREHOLE 1	134261.698	752
722187.802	4294270.102	4938	29-Jun-15	BRIDGETON BOREHOLE 1	134261.698	
722188.383	4294270.359	5170	29-Jun-15	BRIDGETON BOREHOLE 1	134262.34	753
722188.209	4294269.927	5170	29-Jun-15	BRIDGETON BOREHOLE 1	134262.34	
722188.952	4294270.13	5375	29-Jun-15	BRIDGETON BOREHOLE 1	134263.447	754
722188.814	4294269.661	5375	29-Jun-15	BRIDGETON BOREHOLE 1	134263.447	
722189.552	4294269.899	5056	29-Jun-15	BRIDGETON BOREHOLE 1	134264.586	755
722189.319	4294269.538	5056	29-Jun-15	BRIDGETON BOREHOLE 1	134264.586	
722190.14	4294269.701	4666	29-Jun-15	BRIDGETON BOREHOLE 1	134265.596	756
722189.729	4294269.484	4666	29-Jun-15	BRIDGETON BOREHOLE 1	134265.596	
722190.593	4294269.582	4860	29-Jun-15	BRIDGETON BOREHOLE 1	134266.407	757
722190.119	4294269.395	4860	29-Jun-15	BRIDGETON BOREHOLE 1	134266.407	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722191.299	4294269.426	5343	29-Jun-15	BRIDGETON BOREHOLE 1	134267.556	758
722190.866	4294269.179	5343	29-Jun-15	BRIDGETON BOREHOLE 1	134267.556	
722191.855	4294269.245	5308	29-Jun-15	BRIDGETON BOREHOLE 1	134268.367	759
722191.418	4294268.987	5308	29-Jun-15	BRIDGETON BOREHOLE 1	134268.367	
722192.549	4294268.995	5521	29-Jun-15	BRIDGETON BOREHOLE 1	134269.481	760
722192.051	4294268.781	5521	29-Jun-15	BRIDGETON BOREHOLE 1	134269.481	
722193.143	4294268.966	5010	29-Jun-15	BRIDGETON BOREHOLE 1	134270.348	761
722192.528	4294268.688	5010	29-Jun-15	BRIDGETON BOREHOLE 1	134270.348	
722193.882	4294269.015	5301	29-Jun-15	BRIDGETON BOREHOLE 1	134271.439	762
722193.05	4294268.614	5301	29-Jun-15	BRIDGETON BOREHOLE 1	134271.439	
722194.386	4294268.901	5351	29-Jun-15	BRIDGETON BOREHOLE 1	134272.419	763
722193.474	4294268.552	5351	29-Jun-15	BRIDGETON BOREHOLE 1	134272.419	
722195.006	4294268.695	5155	29-Jun-15	BRIDGETON BOREHOLE 1	134273.51	764
722194.034	4294268.412	5155	29-Jun-15	BRIDGETON BOREHOLE 1	134273.51	
722195.517	4294268.475	5179	29-Jun-15	BRIDGETON BOREHOLE 1	134274.613	765
722194.61	4294268.272	5179	29-Jun-15	BRIDGETON BOREHOLE 1	134274.613	
722196.111	4294268.338	5433	29-Jun-15	BRIDGETON BOREHOLE 1	134275.594	766
722195.166	4294268.152	5433	29-Jun-15	BRIDGETON BOREHOLE 1	134275.594	
722196.631	4294268.202	4901	29-Jun-15	BRIDGETON BOREHOLE 1	134276.36	767
722195.62	4294268.08	4901	29-Jun-15	BRIDGETON BOREHOLE 1	134276.36	
722197.323	4294268.034	4549	29-Jun-15	BRIDGETON BOREHOLE 1	134277.478	768
722196.273	4294267.974	4549	29-Jun-15	BRIDGETON BOREHOLE 1	134277.478	
722197.931	4294267.932	5079	29-Jun-15	BRIDGETON BOREHOLE 1	134278.4	769
722196.797	4294267.807	5079	29-Jun-15	BRIDGETON BOREHOLE 1	134278.4	
722198.585	4294267.606	5062	29-Jun-15	BRIDGETON BOREHOLE 1	134279.524	770
722197.476	4294267.518	5062	29-Jun-15	BRIDGETON BOREHOLE 1	134279.524	
722199.099	4294267.386	4999	29-Jun-15	BRIDGETON BOREHOLE 1	134280.384	771
722198.027	4294267.322	4999	29-Jun-15	BRIDGETON BOREHOLE 1	134280.384	
722199.722	4294267.166	5422	29-Jun-15	BRIDGETON BOREHOLE 1	134281.433	772
722198.648	4294267.126	5422	29-Jun-15	BRIDGETON BOREHOLE 1	134281.433	
722200.191	4294266.885	5262	29-Jun-15	BRIDGETON BOREHOLE 1	134282.437	773
722199.135	4294266.953	5262	29-Jun-15	BRIDGETON BOREHOLE 1	134282.437	
722200.905	4294266.72	5120	29-Jun-15	BRIDGETON BOREHOLE 1	134283.622	774
722199.696	4294266.836	5120	29-Jun-15	BRIDGETON BOREHOLE 1	134283.622	
722201.371	4294266.674	4837	29-Jun-15	BRIDGETON BOREHOLE 1	134284.342	775
722200.138	4294266.783	4837	29-Jun-15	BRIDGETON BOREHOLE 1	134284.342	
722202.025	4294266.594	5106	29-Jun-15	BRIDGETON BOREHOLE 1	134285.435	776
722200.878	4294266.701	5106	29-Jun-15	BRIDGETON BOREHOLE 1	134285.435	
722202.595	4294266.593	5085	29-Jun-15	BRIDGETON BOREHOLE 1	134286.52	777
722201.531	4294266.746	5085	29-Jun-15	BRIDGETON BOREHOLE 1	134286.52	
722202.779	4294266.917	5485	29-Jun-15	BRIDGETON BOREHOLE 1	134287.556	778
722201.85	4294266.849	5485	29-Jun-15	BRIDGETON BOREHOLE 1	134287.556	
722202.415	4294267.264	5073	29-Jun-15	BRIDGETON BOREHOLE 1	134288.478	779
722201.651	4294266.869	5073	29-Jun-15	BRIDGETON BOREHOLE 1	134288.478	
722201.753	4294267.37	4518	29-Jun-15	BRIDGETON BOREHOLE 1	134289.536	780
722201.124	4294266.794	4518	29-Jun-15	BRIDGETON BOREHOLE 1	134289.536	
722201.091	4294267.414	4469	29-Jun-15	BRIDGETON BOREHOLE 1	134290.605	781

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722200.546	4294266.79	4469	29-Jun-15	BRIDGETON BOREHOLE 1	134290.605	
722200.546	4294267.579	4928	29-Jun-15	BRIDGETON BOREHOLE 1	134291.482	782
722200.032	4294266.941	4928	29-Jun-15	BRIDGETON BOREHOLE 1	134291.482	
722199.967	4294267.75	4985	29-Jun-15	BRIDGETON BOREHOLE 1	134292.484	783
722199.469	4294267.104	4985	29-Jun-15	BRIDGETON BOREHOLE 1	134292.484	
722199.338	4294267.866	5271	29-Jun-15	BRIDGETON BOREHOLE 1	134293.542	784
722198.839	4294267.237	5271	29-Jun-15	BRIDGETON BOREHOLE 1	134293.542	
722198.725	4294267.987	5207	29-Jun-15	BRIDGETON BOREHOLE 1	134294.589	785
722198.179	4294267.367	5207	29-Jun-15	BRIDGETON BOREHOLE 1	134294.589	
722198.218	4294268.111	5074	29-Jun-15	BRIDGETON BOREHOLE 1	134295.48	786
722197.631	4294267.503	5074	29-Jun-15	BRIDGETON BOREHOLE 1	134295.48	
722197.589	4294268.301	4939	29-Jun-15	BRIDGETON BOREHOLE 1	134296.565	787
722196.968	4294267.767	4939	29-Jun-15	BRIDGETON BOREHOLE 1	134296.565	
722197.107	4294268.47	5081	29-Jun-15	BRIDGETON BOREHOLE 1	134297.511	788
722196.455	4294267.996	5081	29-Jun-15	BRIDGETON BOREHOLE 1	134297.511	
722196.688	4294268.599	5378	29-Jun-15	BRIDGETON BOREHOLE 1	134298.394	789
722196.008	4294268.162	5378	29-Jun-15	BRIDGETON BOREHOLE 1	134298.394	
722196.213	4294268.719	5725	29-Jun-15	BRIDGETON BOREHOLE 1	134299.36	790
722195.522	4294268.301	5725	29-Jun-15	BRIDGETON BOREHOLE 1	134299.36	
722195.72	4294268.847	5425	29-Jun-15	BRIDGETON BOREHOLE 1	134300.34	791
722195.03	4294268.427	5425	29-Jun-15	BRIDGETON BOREHOLE 1	134300.34	
722195.15	4294268.982	5601	29-Jun-15	BRIDGETON BOREHOLE 1	134301.445	792
722194.453	4294268.586	5601	29-Jun-15	BRIDGETON BOREHOLE 1	134301.445	
722194.616	4294269.103	5438	29-Jun-15	BRIDGETON BOREHOLE 1	134302.463	793
722193.928	4294268.77	5438	29-Jun-15	BRIDGETON BOREHOLE 1	134302.463	
722194.151	4294269.219	5271	29-Jun-15	BRIDGETON BOREHOLE 1	134303.494	794
722193.443	4294268.911	5271	29-Jun-15	BRIDGETON BOREHOLE 1	134303.494	
722193.653	4294269.366	5260	29-Jun-15	BRIDGETON BOREHOLE 1	134304.618	795
722192.938	4294269.073	5260	29-Jun-15	BRIDGETON BOREHOLE 1	134304.618	
722193.186	4294269.508	5246	29-Jun-15	BRIDGETON BOREHOLE 1	134305.564	796
722192.462	4294269.236	5246	29-Jun-15	BRIDGETON BOREHOLE 1	134305.564	
722192.659	4294269.666	5957	29-Jun-15	BRIDGETON BOREHOLE 1	134306.535	797
722191.945	4294269.424	5957	29-Jun-15	BRIDGETON BOREHOLE 1	134306.535	
722192.109	4294269.837	5398	29-Jun-15	BRIDGETON BOREHOLE 1	134307.582	798
722191.409	4294269.632	5398	29-Jun-15	BRIDGETON BOREHOLE 1	134307.582	
722191.538	4294270	5294	29-Jun-15	BRIDGETON BOREHOLE 1	134308.634	799
722190.838	4294269.793	5294	29-Jun-15	BRIDGETON BOREHOLE 1	134308.634	
722190.913	4294270.174	5437	29-Jun-15	BRIDGETON BOREHOLE 1	134309.693	800
722190.2	4294269.969	5437	29-Jun-15	BRIDGETON BOREHOLE 1	134309.693	
722190.534	4294270.269	5773	29-Jun-15	BRIDGETON BOREHOLE 1	134310.347	801
722189.814	4294270.071	5773	29-Jun-15	BRIDGETON BOREHOLE 1	134310.347	
722189.915	4294270.394	5760	29-Jun-15	BRIDGETON BOREHOLE 1	134311.46	802
722189.202	4294270.199	5760	29-Jun-15	BRIDGETON BOREHOLE 1	134311.46	
722189.337	4294270.504	5700	29-Jun-15	BRIDGETON BOREHOLE 1	134312.461	803
722188.638	4294270.303	5700	29-Jun-15	BRIDGETON BOREHOLE 1	134312.461	
722188.725	4294270.645	5238	29-Jun-15	BRIDGETON BOREHOLE 1	134313.452	804
722188.091	4294270.455	5238	29-Jun-15	BRIDGETON BOREHOLE 1	134313.452	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722187.972	4294270.885	4859	29-Jun-15	BRIDGETON BOREHOLE 1	134314.641	805
722187.424	4294270.694	4859	29-Jun-15	BRIDGETON BOREHOLE 1	134314.641	
722187.343	4294271.1	5171	29-Jun-15	BRIDGETON BOREHOLE 1	134315.595	806
722186.798	4294270.901	5171	29-Jun-15	BRIDGETON BOREHOLE 1	134315.595	
722186.798	4294271.246	5391	29-Jun-15	BRIDGETON BOREHOLE 1	134316.507	807
722186.262	4294271.047	5391	29-Jun-15	BRIDGETON BOREHOLE 1	134316.507	
722186.229	4294271.353	5402	29-Jun-15	BRIDGETON BOREHOLE 1	134317.451	808
722185.684	4294271.148	5402	29-Jun-15	BRIDGETON BOREHOLE 1	134317.451	
722185.64	4294271.453	5641	29-Jun-15	BRIDGETON BOREHOLE 1	134318.345	809
722185.066	4294271.254	5641	29-Jun-15	BRIDGETON BOREHOLE 1	134318.345	
722184.904	4294271.599	5640	29-Jun-15	BRIDGETON BOREHOLE 1	134319.5	810
722184.354	4294271.419	5640	29-Jun-15	BRIDGETON BOREHOLE 1	134319.5	
722184.269	4294271.754	5550	29-Jun-15	BRIDGETON BOREHOLE 1	134320.546	811
722183.734	4294271.571	5550	29-Jun-15	BRIDGETON BOREHOLE 1	134320.546	
722183.664	4294271.888	5672	29-Jun-15	BRIDGETON BOREHOLE 1	134321.672	812
722183.118	4294271.693	5672	29-Jun-15	BRIDGETON BOREHOLE 1	134321.672	
722183.224	4294271.979	5403	29-Jun-15	BRIDGETON BOREHOLE 1	134322.506	813
722182.671	4294271.775	5403	29-Jun-15	BRIDGETON BOREHOLE 1	134322.506	
722182.632	4294272.122	6316	29-Jun-15	BRIDGETON BOREHOLE 1	134323.646	814
722182.062	4294271.912	6316	29-Jun-15	BRIDGETON BOREHOLE 1	134323.646	
722182.297	4294272.289	6259	29-Jun-15	BRIDGETON BOREHOLE 1	134324.457	815
722181.71	4294272.044	6259	29-Jun-15	BRIDGETON BOREHOLE 1	134324.457	
722182.218	4294272.613	5287	29-Jun-15	BRIDGETON BOREHOLE 1	134325.531	816
722181.637	4294272.214	5287	29-Jun-15	BRIDGETON BOREHOLE 1	134325.531	
722182.5	4294272.898	5284	29-Jun-15	BRIDGETON BOREHOLE 1	134326.348	817
722181.924	4294272.28	5284	29-Jun-15	BRIDGETON BOREHOLE 1	134326.348	
722182.959	4294272.951	6054	29-Jun-15	BRIDGETON BOREHOLE 1	134327.318	818
722182.372	4294272.261	6054	29-Jun-15	BRIDGETON BOREHOLE 1	134327.318	
722183.575	4294272.676	6260	29-Jun-15	BRIDGETON BOREHOLE 1	134328.625	819
722182.964	4294272.141	6260	29-Jun-15	BRIDGETON BOREHOLE 1	134328.625	
722184.071	4294272.702	5225	29-Jun-15	BRIDGETON BOREHOLE 1	134329.6	820
722183.558	4294271.983	5225	29-Jun-15	BRIDGETON BOREHOLE 1	134329.6	
722184.583	4294272.467	5391	29-Jun-15	BRIDGETON BOREHOLE 1	134330.47	821
722184.149	4294271.826	5391	29-Jun-15	BRIDGETON BOREHOLE 1	134330.47	
722185.158	4294272.182	5387	29-Jun-15	BRIDGETON BOREHOLE 1	134331.36	822
722184.741	4294271.68	5387	29-Jun-15	BRIDGETON BOREHOLE 1	134331.36	
722185.85	4294271.994	5978	29-Jun-15	BRIDGETON BOREHOLE 1	134332.58	823
722185.51	4294271.51	5978	29-Jun-15	BRIDGETON BOREHOLE 1	134332.58	
722186.247	4294271.749	5987	29-Jun-15	BRIDGETON BOREHOLE 1	134333.44	824
722186.007	4294271.346	5987	29-Jun-15	BRIDGETON BOREHOLE 1	134333.44	
722186.838	4294271.641	6368	29-Jun-15	BRIDGETON BOREHOLE 1	134334.598	825
722186.387	4294271.158	6368	29-Jun-15	BRIDGETON BOREHOLE 1	134334.598	
722186.931	4294271.569	5943	29-Jun-15	BRIDGETON BOREHOLE 1	134335.483	826
722186.401	4294271.177	5943	29-Jun-15	BRIDGETON BOREHOLE 1	134335.483	
722186.768	4294271.399	5540	29-Jun-15	BRIDGETON BOREHOLE 1	134336.413	827
722186.35	4294271.248	5540	29-Jun-15	BRIDGETON BOREHOLE 1	134336.413	
722186.985	4294271.342	5628	29-Jun-15	BRIDGETON BOREHOLE 1	134337.528	828

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722186.498	4294271.246	5628	29-Jun-15	BRIDGETON BOREHOLE 1	134337.528	
722187.383	4294271.24	5821	29-Jun-15	BRIDGETON BOREHOLE 1	134338.397	829
722186.865	4294271.152	5821	29-Jun-15	BRIDGETON BOREHOLE 1	134338.397	
722188.075	4294271.054	5862	29-Jun-15	BRIDGETON BOREHOLE 1	134339.593	830
722187.585	4294270.953	5862	29-Jun-15	BRIDGETON BOREHOLE 1	134339.593	
722188.628	4294270.945	5772	29-Jun-15	BRIDGETON BOREHOLE 1	134340.458	831
722188.249	4294270.775	5772	29-Jun-15	BRIDGETON BOREHOLE 1	134340.458	
722189.37	4294270.791	5834	29-Jun-15	BRIDGETON BOREHOLE 1	134341.592	832
722189.028	4294270.61	5834	29-Jun-15	BRIDGETON BOREHOLE 1	134341.592	
722189.909	4294270.604	5569	29-Jun-15	BRIDGETON BOREHOLE 1	134342.459	833
722189.471	4294270.514	5569	29-Jun-15	BRIDGETON BOREHOLE 1	134342.459	
722190.611	4294270.366	6005	29-Jun-15	BRIDGETON BOREHOLE 1	134343.605	834
722190.101	4294270.372	6005	29-Jun-15	BRIDGETON BOREHOLE 1	134343.605	
722191.337	4294270.471	6032	29-Jun-15	BRIDGETON BOREHOLE 1	134344.5	835
722190.598	4294270.304	6032	29-Jun-15	BRIDGETON BOREHOLE 1	134344.5	
722192.006	4294270.501	5485	29-Jun-15	BRIDGETON BOREHOLE 1	134345.358	836
722191.104	4294270.21	5485	29-Jun-15	BRIDGETON BOREHOLE 1	134345.358	
722192.637	4294270.129	5290	29-Jun-15	BRIDGETON BOREHOLE 1	134346.443	837
722191.812	4294269.968	5290	29-Jun-15	BRIDGETON BOREHOLE 1	134346.443	
722193.309	4294269.865	5136	29-Jun-15	BRIDGETON BOREHOLE 1	134347.575	838
722192.484	4294269.651	5136	29-Jun-15	BRIDGETON BOREHOLE 1	134347.575	
722193.687	4294269.74	5274	29-Jun-15	BRIDGETON BOREHOLE 1	134348.284	839
722192.919	4294269.458	5274	29-Jun-15	BRIDGETON BOREHOLE 1	134348.284	
722194.51	4294269.726	5981	29-Jun-15	BRIDGETON BOREHOLE 1	134349.595	840
722193.905	4294269.173	5981	29-Jun-15	BRIDGETON BOREHOLE 1	134349.595	
722195.013	4294269.816	5569	29-Jun-15	BRIDGETON BOREHOLE 1	134350.445	841
722194.477	4294269.063	5569	29-Jun-15	BRIDGETON BOREHOLE 1	134350.445	
722195.524	4294269.765	4918	29-Jun-15	BRIDGETON BOREHOLE 1	134351.382	842
722194.903	4294268.989	4918	29-Jun-15	BRIDGETON BOREHOLE 1	134351.382	
722196.093	4294269.537	4776	29-Jun-15	BRIDGETON BOREHOLE 1	134352.342	843
722195.288	4294268.888	4776	29-Jun-15	BRIDGETON BOREHOLE 1	134352.342	
722196.859	4294269.15	5071	29-Jun-15	BRIDGETON BOREHOLE 1	134353.508	844
722195.946	4294268.683	5071	29-Jun-15	BRIDGETON BOREHOLE 1	134353.508	
722197.479	4294268.873	5140	29-Jun-15	BRIDGETON BOREHOLE 1	134354.441	845
722196.59	4294268.367	5140	29-Jun-15	BRIDGETON BOREHOLE 1	134354.441	
722198.234	4294268.597	5403	29-Jun-15	BRIDGETON BOREHOLE 1	134355.528	846
722197.352	4294268.064	5403	29-Jun-15	BRIDGETON BOREHOLE 1	134355.528	
722198.816	4294268.43	5372	29-Jun-15	BRIDGETON BOREHOLE 1	134356.34	847
722197.842	4294268.022	5372	29-Jun-15	BRIDGETON BOREHOLE 1	134356.34	
722199.551	4294268.272	5144	29-Jun-15	BRIDGETON BOREHOLE 1	134357.407	848
722198.5	4294268.032	5144	29-Jun-15	BRIDGETON BOREHOLE 1	134357.407	
722200.276	4294268.078	4843	29-Jun-15	BRIDGETON BOREHOLE 1	134358.452	849
722199.048	4294268.009	4843	29-Jun-15	BRIDGETON BOREHOLE 1	134358.452	
722200.987	4294267.945	4367	29-Jun-15	BRIDGETON BOREHOLE 1	134359.525	850
722199.551	4294267.857	4367	29-Jun-15	BRIDGETON BOREHOLE 1	134359.525	
722201.65	4294267.69	5231	29-Jun-15	BRIDGETON BOREHOLE 1	134360.597	851
722200.114	4294267.666	5231	29-Jun-15	BRIDGETON BOREHOLE 1	134360.597	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722202.34	4294267.451	5117	29-Jun-15	BRIDGETON BOREHOLE 1	134361.703	852
722200.857	4294267.43	5117	29-Jun-15	BRIDGETON BOREHOLE 1	134361.703	
722202.581	4294267.262	4978	29-Jun-15	BRIDGETON BOREHOLE 1	134362.39	853
722201.199	4294267.4	4978	29-Jun-15	BRIDGETON BOREHOLE 1	134362.39	
722202.846	4294267.093	5418	29-Jun-15	BRIDGETON BOREHOLE 1	134363.342	854
722201.544	4294267.492	5418	29-Jun-15	BRIDGETON BOREHOLE 1	134363.342	
722203.176	4294267.288	5050	29-Jun-15	BRIDGETON BOREHOLE 1	134364.34	855
722201.874	4294267.682	5050	29-Jun-15	BRIDGETON BOREHOLE 1	134364.34	
722202.921	4294267.728	5188	29-Jun-15	BRIDGETON BOREHOLE 1	134365.663	856
722201.688	4294268.132	5188	29-Jun-15	BRIDGETON BOREHOLE 1	134365.663	
722202.506	4294267.971	4665	29-Jun-15	BRIDGETON BOREHOLE 1	134366.495	857
722201.297	4294268.324	4665	29-Jun-15	BRIDGETON BOREHOLE 1	134366.495	
722201.975	4294268.245	5099	29-Jun-15	BRIDGETON BOREHOLE 1	134367.593	858
722200.74	4294268.491	5099	29-Jun-15	BRIDGETON BOREHOLE 1	134367.593	
722201.59	4294268.402	5411	29-Jun-15	BRIDGETON BOREHOLE 1	134368.432	859
722200.378	4294268.522	5411	29-Jun-15	BRIDGETON BOREHOLE 1	134368.432	
722200.882	4294268.603	5331	29-Jun-15	BRIDGETON BOREHOLE 1	134369.657	860
722199.955	4294268.414	5331	29-Jun-15	BRIDGETON BOREHOLE 1	134369.657	
722200.497	4294268.673	4956	29-Jun-15	BRIDGETON BOREHOLE 1	134370.262	861
722199.699	4294268.395	4956	29-Jun-15	BRIDGETON BOREHOLE 1	134370.262	
722199.796	4294268.733	5233	29-Jun-15	BRIDGETON BOREHOLE 1	134371.265	862
722199.136	4294268.503	5233	29-Jun-15	BRIDGETON BOREHOLE 1	134371.265	
722198.905	4294268.907	5921	29-Jun-15	BRIDGETON BOREHOLE 1	134372.346	863
722198.529	4294268.613	5921	29-Jun-15	BRIDGETON BOREHOLE 1	134372.346	
722198.192	4294269.106	5513	29-Jun-15	BRIDGETON BOREHOLE 1	134373.455	864
722197.793	4294268.791	5513	29-Jun-15	BRIDGETON BOREHOLE 1	134373.455	
722197.643	4294269.271	5681	29-Jun-15	BRIDGETON BOREHOLE 1	134374.346	865
722197.138	4294268.993	5681	29-Jun-15	BRIDGETON BOREHOLE 1	134374.346	
722196.948	4294269.45	5603	29-Jun-15	BRIDGETON BOREHOLE 1	134375.455	866
722196.368	4294269.175	5603	29-Jun-15	BRIDGETON BOREHOLE 1	134375.455	
722196.444	4294269.453	5949	29-Jun-15	BRIDGETON BOREHOLE 1	134376.334	867
722195.797	4294269.313	5949	29-Jun-15	BRIDGETON BOREHOLE 1	134376.334	
722195.781	4294269.402	5291	29-Jun-15	BRIDGETON BOREHOLE 1	134377.556	868
722195.027	4294269.498	5291	29-Jun-15	BRIDGETON BOREHOLE 1	134377.556	
722195.245	4294269.547	5413	29-Jun-15	BRIDGETON BOREHOLE 1	134378.441	869
722194.475	4294269.646	5413	29-Jun-15	BRIDGETON BOREHOLE 1	134378.441	
722194.627	4294269.711	5715	29-Jun-15	BRIDGETON BOREHOLE 1	134379.534	870
722193.827	4294269.787	5715	29-Jun-15	BRIDGETON BOREHOLE 1	134379.534	
722194.121	4294269.853	5307	29-Jun-15	BRIDGETON BOREHOLE 1	134380.417	871
722193.292	4294269.9	5307	29-Jun-15	BRIDGETON BOREHOLE 1	134380.417	
722193.468	4294270.047	5280	29-Jun-15	BRIDGETON BOREHOLE 1	134381.455	872
722192.642	4294270.102	5280	29-Jun-15	BRIDGETON BOREHOLE 1	134381.455	
722192.891	4294270.21	5385	29-Jun-15	BRIDGETON BOREHOLE 1	134382.399	873
722192.084	4294270.297	5385	29-Jun-15	BRIDGETON BOREHOLE 1	134382.399	
722192.275	4294270.389	5204	29-Jun-15	BRIDGETON BOREHOLE 1	134383.502	874
722191.487	4294270.516	5204	29-Jun-15	BRIDGETON BOREHOLE 1	134383.502	
722191.8	4294270.51	5237	29-Jun-15	BRIDGETON BOREHOLE 1	134384.293	875

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722191.043	4294270.672	5237	29-Jun-15	BRIDGETON BOREHOLE 1	134384.293	
722191.087	4294270.676	5638	29-Jun-15	BRIDGETON BOREHOLE 1	134385.397	876
722190.371	4294270.874	5638	29-Jun-15	BRIDGETON BOREHOLE 1	134385.397	
722190.332	4294270.888	5706	29-Jun-15	BRIDGETON BOREHOLE 1	134386.516	877
722189.621	4294271.079	5706	29-Jun-15	BRIDGETON BOREHOLE 1	134386.516	
722189.661	4294271.094	6195	29-Jun-15	BRIDGETON BOREHOLE 1	134387.477	878
722188.961	4294271.298	6195	29-Jun-15	BRIDGETON BOREHOLE 1	134387.477	
722189.133	4294271.23	6088	29-Jun-15	BRIDGETON BOREHOLE 1	134388.315	879
722188.438	4294271.442	6088	29-Jun-15	BRIDGETON BOREHOLE 1	134388.315	
722188.461	4294271.42	5943	29-Jun-15	BRIDGETON BOREHOLE 1	134389.395	880
722187.724	4294271.59	5943	29-Jun-15	BRIDGETON BOREHOLE 1	134389.395	
722187.838	4294271.618	6027	29-Jun-15	BRIDGETON BOREHOLE 1	134390.356	881
722187.055	4294271.747	6027	29-Jun-15	BRIDGETON BOREHOLE 1	134390.356	
722187.081	4294271.819	6188	29-Jun-15	BRIDGETON BOREHOLE 1	134391.454	882
722186.253	4294271.945	6188	29-Jun-15	BRIDGETON BOREHOLE 1	134391.454	
722186.21	4294272.034	5530	29-Jun-15	BRIDGETON BOREHOLE 1	134392.626	883
722185.391	4294272.17	5530	29-Jun-15	BRIDGETON BOREHOLE 1	134392.626	
722185.593	4294272.177	5946	29-Jun-15	BRIDGETON BOREHOLE 1	134393.608	884
722184.786	4294272.293	5946	29-Jun-15	BRIDGETON BOREHOLE 1	134393.608	
722185.038	4294272.327	8079	29-Jun-15	BRIDGETON BOREHOLE 1	134394.471	885
722184.284	4294272.412	8079	29-Jun-15	BRIDGETON BOREHOLE 1	134394.471	
722184.281	4294272.522	7540	29-Jun-15	BRIDGETON BOREHOLE 1	134395.615	886
722183.705	4294272.659	7540	29-Jun-15	BRIDGETON BOREHOLE 1	134395.615	
722183.83	4294272.611	5635	29-Jun-15	BRIDGETON BOREHOLE 1	134396.35	887
722183.31	4294272.789	5635	29-Jun-15	BRIDGETON BOREHOLE 1	134396.35	
722183.126	4294272.749	5704	29-Jun-15	BRIDGETON BOREHOLE 1	134397.504	888
722182.639	4294272.938	5704	29-Jun-15	BRIDGETON BOREHOLE 1	134397.504	
722182.479	4294272.909	5699	29-Jun-15	BRIDGETON BOREHOLE 1	134398.615	889
722182.005	4294273.053	5699	29-Jun-15	BRIDGETON BOREHOLE 1	134398.615	
722181.931	4294272.997	5793	29-Jun-15	BRIDGETON BOREHOLE 1	134399.688	890
722181.414	4294273.068	5793	29-Jun-15	BRIDGETON BOREHOLE 1	134399.688	
722181.732	4294273	5201	29-Jun-15	BRIDGETON BOREHOLE 1	134400.263	891
722181.223	4294273.067	5201	29-Jun-15	BRIDGETON BOREHOLE 1	134400.263	
722181.634	4294272.931	6038	29-Jun-15	BRIDGETON BOREHOLE 1	134401.46	892
722181.195	4294273.04	6038	29-Jun-15	BRIDGETON BOREHOLE 1	134401.46	
722181.746	4294272.809	5564	29-Jun-15	BRIDGETON BOREHOLE 1	134402.605	893
722181.304	4294272.962	5564	29-Jun-15	BRIDGETON BOREHOLE 1	134402.605	
722181.798	4294272.726	5327	29-Jun-15	BRIDGETON BOREHOLE 1	134403.584	894
722181.29	4294272.91	5327	29-Jun-15	BRIDGETON BOREHOLE 1	134403.584	
722181.789	4294272.695	5306	29-Jun-15	BRIDGETON BOREHOLE 1	134404.316	895
722181.226	4294272.888	5306	29-Jun-15	BRIDGETON BOREHOLE 1	134404.316	
722181.777	4294272.682	5572	29-Jun-15	BRIDGETON BOREHOLE 1	134405.455	896
722181.122	4294272.866	5572	29-Jun-15	BRIDGETON BOREHOLE 1	134405.455	
722181.79	4294272.681	5647	29-Jun-15	BRIDGETON BOREHOLE 1	134406.26	897
722181.076	4294272.844	5647	29-Jun-15	BRIDGETON BOREHOLE 1	134406.26	
722181.791	4294272.67	5096	29-Jun-15	BRIDGETON BOREHOLE 1	134407.323	898
722181.025	4294272.823	5096	29-Jun-15	BRIDGETON BOREHOLE 1	134407.323	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722181.801	4294272.666	5439	29-Jun-15	BRIDGETON BOREHOLE 1	134408.455	899
722180.953	4294272.782	5439	29-Jun-15	BRIDGETON BOREHOLE 1	134408.455	
722181.802	4294272.663	5662	29-Jun-15	BRIDGETON BOREHOLE 1	134409.583	900
722180.87	4294272.73	5662	29-Jun-15	BRIDGETON BOREHOLE 1	134409.583	
722181.801	4294272.667	5997	29-Jun-15	BRIDGETON BOREHOLE 1	134410.431	901
722180.74	4294272.666	5997	29-Jun-15	BRIDGETON BOREHOLE 1	134410.431	
722181.803	4294272.669	5496	29-Jun-15	BRIDGETON BOREHOLE 1	134411.337	902
722180.553	4294272.581	5496	29-Jun-15	BRIDGETON BOREHOLE 1	134411.337	
722181.813	4294272.665	5829	29-Jun-15	BRIDGETON BOREHOLE 1	134412.434	903
722180.399	4294272.508	5829	29-Jun-15	BRIDGETON BOREHOLE 1	134412.434	
722181.815	4294272.654	5761	29-Jun-15	BRIDGETON BOREHOLE 1	134413.536	904
722180.387	4294272.494	5761	29-Jun-15	BRIDGETON BOREHOLE 1	134413.536	
722181.816	4294272.648	5445	29-Jun-15	BRIDGETON BOREHOLE 1	134414.428	905
722180.437	4294272.509	5445	29-Jun-15	BRIDGETON BOREHOLE 1	134414.428	
722181.809	4294272.651	5193	29-Jun-15	BRIDGETON BOREHOLE 1	134415.568	906
722180.524	4294272.545	5193	29-Jun-15	BRIDGETON BOREHOLE 1	134415.568	
722181.805	4294272.652	5718	29-Jun-15	BRIDGETON BOREHOLE 1	134416.307	907
722180.592	4294272.574	5718	29-Jun-15	BRIDGETON BOREHOLE 1	134416.307	
722181.809	4294272.654	5796	29-Jun-15	BRIDGETON BOREHOLE 1	134417.444	908
722180.686	4294272.608	5796	29-Jun-15	BRIDGETON BOREHOLE 1	134417.444	
722181.807	4294272.654	5480	29-Jun-15	BRIDGETON BOREHOLE 1	134418.335	909
722180.751	4294272.632	5480	29-Jun-15	BRIDGETON BOREHOLE 1	134418.335	
722181.807	4294272.656	5332	29-Jun-15	BRIDGETON BOREHOLE 1	134419.405	910
722180.781	4294272.643	5332	29-Jun-15	BRIDGETON BOREHOLE 1	134419.405	
722181.806	4294272.656	5497	29-Jun-15	BRIDGETON BOREHOLE 1	134420.314	912
722180.778	4294272.643	5497	29-Jun-15	BRIDGETON BOREHOLE 1	134420.314	
722170.389	4294272.177	7109	30-Jun-15	BRIDGETON BOREHOLE 1	221529.036	1263
722169.611	4294272.331	7109	30-Jun-15	BRIDGETON BOREHOLE 1	221529.036	
722170.389	4294272.179	7117	30-Jun-15	BRIDGETON BOREHOLE 1	221529.864	1264
722169.7	4294272.387	7117	30-Jun-15	BRIDGETON BOREHOLE 1	221529.864	
722170.367	4294272.189	8559	30-Jun-15	BRIDGETON BOREHOLE 1	221531.177	1266
722169.865	4294272.568	8559	30-Jun-15	BRIDGETON BOREHOLE 1	221531.177	
722170.37	4294272.19	8289	30-Jun-15	BRIDGETON BOREHOLE 1	221531.951	1267
722169.934	4294272.629	8289	30-Jun-15	BRIDGETON BOREHOLE 1	221531.951	
722170.372	4294272.184	8672	30-Jun-15	BRIDGETON BOREHOLE 1	221533.057	1268
722169.981	4294272.671	8672	30-Jun-15	BRIDGETON BOREHOLE 1	221533.057	
722170.378	4294272.177	9038	30-Jun-15	BRIDGETON BOREHOLE 1	221534.036	1269
722170.007	4294272.69	9038	30-Jun-15	BRIDGETON BOREHOLE 1	221534.036	
722170.372	4294272.183	8709	30-Jun-15	BRIDGETON BOREHOLE 1	221535.217	1270
722170.021	4294272.701	8709	30-Jun-15	BRIDGETON BOREHOLE 1	221535.217	
722170.362	4294272.179	8837	30-Jun-15	BRIDGETON BOREHOLE 1	221536.057	1271
722170.019	4294272.702	8837	30-Jun-15	BRIDGETON BOREHOLE 1	221536.057	
722170.364	4294272.188	8539	30-Jun-15	BRIDGETON BOREHOLE 1	221537.062	1272
722170.028	4294272.703	8539	30-Jun-15	BRIDGETON BOREHOLE 1	221537.062	
722170.356	4294272.19	7924	30-Jun-15	BRIDGETON BOREHOLE 1	221538.058	1273
722170.033	4294272.703	7924	30-Jun-15	BRIDGETON BOREHOLE 1	221538.058	
722170.356	4294272.201	8851	30-Jun-15	BRIDGETON BOREHOLE 1	221539.19	1274

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722170.033	4294272.704	8851	30-Jun-15	BRIDGETON BOREHOLE 1	221539.19	
722170.363	4294272.204	8812	30-Jun-15	BRIDGETON BOREHOLE 1	221539.97	1275
722170.033	4294272.702	8812	30-Jun-15	BRIDGETON BOREHOLE 1	221539.97	
722170.364	4294272.202	8713	30-Jun-15	BRIDGETON BOREHOLE 1	221541.06	1276
722170.031	4294272.692	8713	30-Jun-15	BRIDGETON BOREHOLE 1	221541.06	
722170.362	4294272.202	9168	30-Jun-15	BRIDGETON BOREHOLE 1	221542.196	1277
722170.033	4294272.682	9168	30-Jun-15	BRIDGETON BOREHOLE 1	221542.196	
722170.356	4294272.209	9762	30-Jun-15	BRIDGETON BOREHOLE 1	221543.004	1278
722170.028	4294272.678	9762	30-Jun-15	BRIDGETON BOREHOLE 1	221543.004	
722170.366	4294272.209	8260	30-Jun-15	BRIDGETON BOREHOLE 1	221543.762	1279
722170.033	4294272.671	8260	30-Jun-15	BRIDGETON BOREHOLE 1	221543.762	
722170.38	4294272.214	8665	30-Jun-15	BRIDGETON BOREHOLE 1	221545.035	1280
722170.042	4294272.666	8665	30-Jun-15	BRIDGETON BOREHOLE 1	221545.035	
722170.377	4294272.218	8166	30-Jun-15	BRIDGETON BOREHOLE 1	221545.805	1281
722170.046	4294272.669	8166	30-Jun-15	BRIDGETON BOREHOLE 1	221545.805	
722170.374	4294272.214	8101	30-Jun-15	BRIDGETON BOREHOLE 1	221546.921	1282
722170.012	4294272.709	8101	30-Jun-15	BRIDGETON BOREHOLE 1	221546.921	
722170.355	4294272.207	8385	30-Jun-15	BRIDGETON BOREHOLE 1	221548.188	1283
722169.92	4294272.775	8385	30-Jun-15	BRIDGETON BOREHOLE 1	221548.188	
722170.351	4294272.21	9386	30-Jun-15	BRIDGETON BOREHOLE 1	221549.217	1284
722169.915	4294272.794	9386	30-Jun-15	BRIDGETON BOREHOLE 1	221549.217	
722170.349	4294272.203	9216	30-Jun-15	BRIDGETON BOREHOLE 1	221550.037	1285
722169.944	4294272.765	9216	30-Jun-15	BRIDGETON BOREHOLE 1	221550.037	
722170.342	4294272.211	10584	30-Jun-15	BRIDGETON BOREHOLE 1	221551.208	1286
722169.963	4294272.748	10584	30-Jun-15	BRIDGETON BOREHOLE 1	221551.208	
722170.338	4294272.212	8826	30-Jun-15	BRIDGETON BOREHOLE 1	221551.962	1287
722169.97	4294272.739	8826	30-Jun-15	BRIDGETON BOREHOLE 1	221551.962	
722170.348	4294272.207	8626	30-Jun-15	BRIDGETON BOREHOLE 1	221553.173	1288
722169.98	4294272.731	8626	30-Jun-15	BRIDGETON BOREHOLE 1	221553.173	
722170.35	4294272.21	8576	30-Jun-15	BRIDGETON BOREHOLE 1	221554.058	1289
722169.982	4294272.724	8576	30-Jun-15	BRIDGETON BOREHOLE 1	221554.058	
722170.348	4294272.211	8054	30-Jun-15	BRIDGETON BOREHOLE 1	221555.083	1290
722169.984	4294272.713	8054	30-Jun-15	BRIDGETON BOREHOLE 1	221555.083	
722170.353	4294272.21	8827	30-Jun-15	BRIDGETON BOREHOLE 1	221556.059	1291
722169.989	4294272.706	8827	30-Jun-15	BRIDGETON BOREHOLE 1	221556.059	
722170.407	4294272.203	8483	30-Jun-15	BRIDGETON BOREHOLE 1	221557.237	1292
722170.022	4294272.714	8483	30-Jun-15	BRIDGETON BOREHOLE 1	221557.237	
722170.417	4294272.208	7490	30-Jun-15	BRIDGETON BOREHOLE 1	221558.096	1293
722169.987	4294272.769	7490	30-Jun-15	BRIDGETON BOREHOLE 1	221558.096	
722170.432	4294272.197	7722	30-Jun-15	BRIDGETON BOREHOLE 1	221559.169	1294
722169.92	4294272.824	7722	30-Jun-15	BRIDGETON BOREHOLE 1	221559.169	
722170.429	4294272.195	8380	30-Jun-15	BRIDGETON BOREHOLE 1	221559.94	1295
722169.883	4294272.853	8380	30-Jun-15	BRIDGETON BOREHOLE 1	221559.94	
722170.428	4294272.198	8725	30-Jun-15	BRIDGETON BOREHOLE 1	221561.103	1296
722169.868	4294272.867	8725	30-Jun-15	BRIDGETON BOREHOLE 1	221561.103	
722170.427	4294272.2	7821	30-Jun-15	BRIDGETON BOREHOLE 1	221561.904	1297
722169.861	4294272.872	7821	30-Jun-15	BRIDGETON BOREHOLE 1	221561.904	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722170.418	4294272.194	7625	30-Jun-15	BRIDGETON BOREHOLE 1	221562.821	1298
722169.856	4294272.876	7625	30-Jun-15	BRIDGETON BOREHOLE 1	221562.821	
722170.411	4294272.2	8146	30-Jun-15	BRIDGETON BOREHOLE 1	221564.138	1299
722169.838	4294272.882	8146	30-Jun-15	BRIDGETON BOREHOLE 1	221564.138	
722170.413	4294272.196	7496	30-Jun-15	BRIDGETON BOREHOLE 1	221565.273	1300
722169.82	4294272.896	7496	30-Jun-15	BRIDGETON BOREHOLE 1	221565.273	
722170.41	4294272.199	7454	30-Jun-15	BRIDGETON BOREHOLE 1	221566.033	1301
722169.807	4294272.907	7454	30-Jun-15	BRIDGETON BOREHOLE 1	221566.033	
722170.407	4294272.196	7833	30-Jun-15	BRIDGETON BOREHOLE 1	221567.093	1302
722169.795	4294272.911	7833	30-Jun-15	BRIDGETON BOREHOLE 1	221567.093	
722170.407	4294272.208	8678	30-Jun-15	BRIDGETON BOREHOLE 1	221567.906	1303
722169.79	4294272.925	8678	30-Jun-15	BRIDGETON BOREHOLE 1	221567.906	
722170.408	4294272.19	9579	30-Jun-15	BRIDGETON BOREHOLE 1	221569.097	1304
722169.776	4294272.93	9579	30-Jun-15	BRIDGETON BOREHOLE 1	221569.097	
722170.405	4294272.189	7525	30-Jun-15	BRIDGETON BOREHOLE 1	221570.153	1305
722169.79	4294272.913	7525	30-Jun-15	BRIDGETON BOREHOLE 1	221570.153	
722170.412	4294272.179	9201	30-Jun-15	BRIDGETON BOREHOLE 1	221571.215	1306
722169.804	4294272.908	9201	30-Jun-15	BRIDGETON BOREHOLE 1	221571.215	
722170.403	4294272.184	9260	30-Jun-15	BRIDGETON BOREHOLE 1	221572.06	1307
722169.806	4294272.903	9260	30-Jun-15	BRIDGETON BOREHOLE 1	221572.06	
722170.395	4294272.187	7745	30-Jun-15	BRIDGETON BOREHOLE 1	221573.196	1308
722169.811	4294272.894	7745	30-Jun-15	BRIDGETON BOREHOLE 1	221573.196	
722170.372	4294272.19	7816	30-Jun-15	BRIDGETON BOREHOLE 1	221573.952	1309
722169.827	4294272.85	7816	30-Jun-15	BRIDGETON BOREHOLE 1	221573.952	
722169.841	4294271.787	7184	30-Jun-15	BRIDGETON BOREHOLE 1	221649.168	1310
722169.413	4294272.143	7184	30-Jun-15	BRIDGETON BOREHOLE 1	221649.168	
722169.845	4294271.772	7646	30-Jun-15	BRIDGETON BOREHOLE 1	221650.037	1311
722169.418	4294272.143	7646	30-Jun-15	BRIDGETON BOREHOLE 1	221650.037	
722169.815	4294271.812	7161	30-Jun-15	BRIDGETON BOREHOLE 1	221651.072	1312
722169.407	4294272.161	7161	30-Jun-15	BRIDGETON BOREHOLE 1	221651.072	
722169.79	4294271.936	7550	30-Jun-15	BRIDGETON BOREHOLE 1	221652.239	1313
722169.274	4294272.304	7550	30-Jun-15	BRIDGETON BOREHOLE 1	221652.239	
722169.8	4294271.925	8097	30-Jun-15	BRIDGETON BOREHOLE 1	221653.263	1314
722169.239	4294272.332	8097	30-Jun-15	BRIDGETON BOREHOLE 1	221653.263	
722169.781	4294271.873	7274	30-Jun-15	BRIDGETON BOREHOLE 1	221654.035	1315
722169.217	4294272.299	7274	30-Jun-15	BRIDGETON BOREHOLE 1	221654.035	
722169.712	4294271.814	8358	30-Jun-15	BRIDGETON BOREHOLE 1	221655.273	1316
722169.189	4294272.226	8358	30-Jun-15	BRIDGETON BOREHOLE 1	221655.273	
722169.66	4294271.901	8629	30-Jun-15	BRIDGETON BOREHOLE 1	221656.028	1317
722169.154	4294272.332	8629	30-Jun-15	BRIDGETON BOREHOLE 1	221656.028	
722169.493	4294272.14	8667	30-Jun-15	BRIDGETON BOREHOLE 1	221657.038	1318
722168.996	4294272.588	8667	30-Jun-15	BRIDGETON BOREHOLE 1	221657.038	
722169.285	4294272.137	8317	30-Jun-15	BRIDGETON BOREHOLE 1	221657.836	1319
722168.842	4294272.6	8317	30-Jun-15	BRIDGETON BOREHOLE 1	221657.836	
722168.596	4294272.147	8079	30-Jun-15	BRIDGETON BOREHOLE 1	221659.042	1320
722168.167	4294272.637	8079	30-Jun-15	BRIDGETON BOREHOLE 1	221659.042	
722167.726	4294272.148	7479	30-Jun-15	BRIDGETON BOREHOLE 1	221660.056	1321

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722167.332	4294272.709	7479	30-Jun-15	BRIDGETON BOREHOLE 1	221660.056	
722166.932	4294272.225	8500	30-Jun-15	BRIDGETON BOREHOLE 1	221661.124	1322
722166.554	4294272.793	8500	30-Jun-15	BRIDGETON BOREHOLE 1	221661.124	
722166.672	4294272.412	6835	30-Jun-15	BRIDGETON BOREHOLE 1	221662.037	1323
722166.293	4294273.006	6835	30-Jun-15	BRIDGETON BOREHOLE 1	221662.037	
722166.607	4294272.888	6628	30-Jun-15	BRIDGETON BOREHOLE 1	221663.107	1324
722166.194	4294273.431	6628	30-Jun-15	BRIDGETON BOREHOLE 1	221663.107	
722166.733	4294273.465	6847	30-Jun-15	BRIDGETON BOREHOLE 1	221664.196	1325
722166.082	4294274.158	6847	30-Jun-15	BRIDGETON BOREHOLE 1	221664.196	
722166.542	4294273.98	6152	30-Jun-15	BRIDGETON BOREHOLE 1	221665.044	1326
722166.114	4294274.655	6152	30-Jun-15	BRIDGETON BOREHOLE 1	221665.044	
722166.525	4294274.526	5412	30-Jun-15	BRIDGETON BOREHOLE 1	221665.82	1327
722166.086	4294275.028	5412	30-Jun-15	BRIDGETON BOREHOLE 1	221665.82	
722166.436	4294275.091	5324	30-Jun-15	BRIDGETON BOREHOLE 1	221666.886	1328
722166.127	4294275.536	5324	30-Jun-15	BRIDGETON BOREHOLE 1	221666.886	
722166.325	4294275.492	5342	30-Jun-15	BRIDGETON BOREHOLE 1	221667.758	1329
722166.075	4294276.054	5342	30-Jun-15	BRIDGETON BOREHOLE 1	221667.758	
722165.844	4294275.675	5540	30-Jun-15	BRIDGETON BOREHOLE 1	221669.178	1330
722165.568	4294276.368	5540	30-Jun-15	BRIDGETON BOREHOLE 1	221669.178	
722165.629	4294275.222	5351	30-Jun-15	BRIDGETON BOREHOLE 1	221670	1331
722165.346	4294275.828	5351	30-Jun-15	BRIDGETON BOREHOLE 1	221670	
722165.634	4294274.648	5747	30-Jun-15	BRIDGETON BOREHOLE 1	221671.048	1332
722165.309	4294275.186	5747	30-Jun-15	BRIDGETON BOREHOLE 1	221671.048	
722165.616	4294273.955	5663	30-Jun-15	BRIDGETON BOREHOLE 1	221672.042	1333
722165.167	4294274.69	5663	30-Jun-15	BRIDGETON BOREHOLE 1	221672.042	
722165.609	4294273.391	5465	30-Jun-15	BRIDGETON BOREHOLE 1	221673.12	1334
722165.208	4294274.194	5465	30-Jun-15	BRIDGETON BOREHOLE 1	221673.12	
722165.657	4294272.88	5819	30-Jun-15	BRIDGETON BOREHOLE 1	221674.042	1335
722165.164	4294273.646	5819	30-Jun-15	BRIDGETON BOREHOLE 1	221674.042	
722165.709	4294272.467	5883	30-Jun-15	BRIDGETON BOREHOLE 1	221675.152	1336
722165.115	4294273.115	5883	30-Jun-15	BRIDGETON BOREHOLE 1	221675.152	
722165.514	4294272.456	6144	30-Jun-15	BRIDGETON BOREHOLE 1	221675.959	1337
722164.953	4294273.053	6144	30-Jun-15	BRIDGETON BOREHOLE 1	221675.959	
722165.411	4294273.039	5316	30-Jun-15	BRIDGETON BOREHOLE 1	221677.149	1338
722164.755	4294273.604	5316	30-Jun-15	BRIDGETON BOREHOLE 1	221677.149	
722165.402	4294273.395	5247	30-Jun-15	BRIDGETON BOREHOLE 1	221677.93	1339
722164.742	4294273.96	5247	30-Jun-15	BRIDGETON BOREHOLE 1	221677.93	
722165.391	4294273.98	4631	30-Jun-15	BRIDGETON BOREHOLE 1	221679.269	1340
722164.763	4294274.551	4631	30-Jun-15	BRIDGETON BOREHOLE 1	221679.269	
722165.392	4294274.428	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221680.074	1341
722164.809	4294274.947	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221680.074	
722165.368	4294274.945	4998	30-Jun-15	BRIDGETON BOREHOLE 1	221681.118	1342
722164.847	4294275.41	4998	30-Jun-15	BRIDGETON BOREHOLE 1	221681.118	
722165.339	4294275.256	4791	30-Jun-15	BRIDGETON BOREHOLE 1	221681.917	1343
722164.812	4294275.782	4791	30-Jun-15	BRIDGETON BOREHOLE 1	221681.917	
722165.188	4294275.734	5117	30-Jun-15	BRIDGETON BOREHOLE 1	221682.951	1344
722164.731	4294276.28	5117	30-Jun-15	BRIDGETON BOREHOLE 1	221682.951	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722165.001	4294275.656	4903	30-Jun-15	BRIDGETON BOREHOLE 1	221683.688	1345
722164.553	4294276.211	4903	30-Jun-15	BRIDGETON BOREHOLE 1	221683.688	
722164.813	4294275.026	5263	30-Jun-15	BRIDGETON BOREHOLE 1	221684.891	1346
722164.401	4294275.594	5263	30-Jun-15	BRIDGETON BOREHOLE 1	221684.891	
722164.977	4294274.311	5053	30-Jun-15	BRIDGETON BOREHOLE 1	221686.099	1347
722164.496	4294274.804	5053	30-Jun-15	BRIDGETON BOREHOLE 1	221686.099	
722164.992	4294273.718	4935	30-Jun-15	BRIDGETON BOREHOLE 1	221687.201	1348
722164.42	4294274.15	4935	30-Jun-15	BRIDGETON BOREHOLE 1	221687.201	
722165.02	4294273.301	5168	30-Jun-15	BRIDGETON BOREHOLE 1	221688.002	1349
722164.416	4294273.694	5168	30-Jun-15	BRIDGETON BOREHOLE 1	221688.002	
722165.02	4294272.842	5367	30-Jun-15	BRIDGETON BOREHOLE 1	221689.042	1350
722164.393	4294273.211	5367	30-Jun-15	BRIDGETON BOREHOLE 1	221689.042	
722164.951	4294272.779	5629	30-Jun-15	BRIDGETON BOREHOLE 1	221689.858	1351
722164.375	4294273.158	5629	30-Jun-15	BRIDGETON BOREHOLE 1	221689.858	
722164.796	4294272.93	5401	30-Jun-15	BRIDGETON BOREHOLE 1	221691.231	1352
722164.136	4294273.284	5401	30-Jun-15	BRIDGETON BOREHOLE 1	221691.231	
722164.714	4294273.158	5258	30-Jun-15	BRIDGETON BOREHOLE 1	221692.002	1353
722164.097	4294273.447	5258	30-Jun-15	BRIDGETON BOREHOLE 1	221692.002	
722164.641	4294273.687	5485	30-Jun-15	BRIDGETON BOREHOLE 1	221693.067	1354
722164.074	4294274.024	5485	30-Jun-15	BRIDGETON BOREHOLE 1	221693.067	
722164.622	4294274.258	5080	30-Jun-15	BRIDGETON BOREHOLE 1	221694.109	1355
722164.065	4294274.655	5080	30-Jun-15	BRIDGETON BOREHOLE 1	221694.109	
722164.598	4294274.606	4867	30-Jun-15	BRIDGETON BOREHOLE 1	221694.966	1356
722164.086	4294275.08	4867	30-Jun-15	BRIDGETON BOREHOLE 1	221694.966	
722164.521	4294275.161	4928	30-Jun-15	BRIDGETON BOREHOLE 1	221696.151	1357
722164.052	4294275.627	4928	30-Jun-15	BRIDGETON BOREHOLE 1	221696.151	
722164.441	4294275.491	4827	30-Jun-15	BRIDGETON BOREHOLE 1	221697.002	1358
722163.985	4294276.041	4827	30-Jun-15	BRIDGETON BOREHOLE 1	221697.002	
722164.131	4294275.759	4770	30-Jun-15	BRIDGETON BOREHOLE 1	221698.093	1359
722163.629	4294276.457	4770	30-Jun-15	BRIDGETON BOREHOLE 1	221698.093	
722164.018	4294275.469	5615	30-Jun-15	BRIDGETON BOREHOLE 1	221699.042	1360
722163.473	4294276.224	5615	30-Jun-15	BRIDGETON BOREHOLE 1	221699.042	
722164.222	4294274.768	5491	30-Jun-15	BRIDGETON BOREHOLE 1	221700.094	1361
722163.469	4294275.607	5491	30-Jun-15	BRIDGETON BOREHOLE 1	221700.094	
722163.869	4294274.372	5504	30-Jun-15	BRIDGETON BOREHOLE 1	221701.213	1362
722163.372	4294274.911	5504	30-Jun-15	BRIDGETON BOREHOLE 1	221701.213	
722163.796	4294273.829	5323	30-Jun-15	BRIDGETON BOREHOLE 1	221702.04	1363
722163.294	4294274.314	5323	30-Jun-15	BRIDGETON BOREHOLE 1	221702.04	
722163.787	4294273.376	4869	30-Jun-15	BRIDGETON BOREHOLE 1	221703.1	1364
722163.241	4294273.808	4869	30-Jun-15	BRIDGETON BOREHOLE 1	221703.1	
722163.798	4294273.035	4846	30-Jun-15	BRIDGETON BOREHOLE 1	221704.125	1365
722163.176	4294273.41	4846	30-Jun-15	BRIDGETON BOREHOLE 1	221704.125	
722163.765	4294272.591	5276	30-Jun-15	BRIDGETON BOREHOLE 1	221705.139	1366
722163.033	4294272.911	5276	30-Jun-15	BRIDGETON BOREHOLE 1	221705.139	
722163.778	4294272.313	5180	30-Jun-15	BRIDGETON BOREHOLE 1	221705.96	1367
722163.03	4294272.594	5180	30-Jun-15	BRIDGETON BOREHOLE 1	221705.96	
722163.578	4294272.306	5336	30-Jun-15	BRIDGETON BOREHOLE 1	221707.03	1368

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722162.852	4294272.562	5336	30-Jun-15	BRIDGETON BOREHOLE 1	221707.03	
722163.489	4294272.637	5589	30-Jun-15	BRIDGETON BOREHOLE 1	221708.047	1369
722162.681	4294272.932	5589	30-Jun-15	BRIDGETON BOREHOLE 1	221708.047	
722163.516	4294273.033	5709	30-Jun-15	BRIDGETON BOREHOLE 1	221709.046	1370
722162.76	4294273.325	5709	30-Jun-15	BRIDGETON BOREHOLE 1	221709.046	
722163.545	4294273.478	5378	30-Jun-15	BRIDGETON BOREHOLE 1	221710.16	1371
722162.852	4294273.847	5378	30-Jun-15	BRIDGETON BOREHOLE 1	221710.16	
722163.549	4294273.914	5043	30-Jun-15	BRIDGETON BOREHOLE 1	221711.257	1372
722162.918	4294274.356	5043	30-Jun-15	BRIDGETON BOREHOLE 1	221711.257	
722163.595	4294274.271	5161	30-Jun-15	BRIDGETON BOREHOLE 1	221712.012	1373
722163.001	4294274.733	5161	30-Jun-15	BRIDGETON BOREHOLE 1	221712.012	
722163.621	4294274.813	4988	30-Jun-15	BRIDGETON BOREHOLE 1	221713.076	1374
722163.099	4294275.241	4988	30-Jun-15	BRIDGETON BOREHOLE 1	221713.076	
722163.51	4294275.264	5041	30-Jun-15	BRIDGETON BOREHOLE 1	221714.135	1375
722163.054	4294275.663	5041	30-Jun-15	BRIDGETON BOREHOLE 1	221714.135	
722163.255	4294275.683	5243	30-Jun-15	BRIDGETON BOREHOLE 1	221715.164	1376
722162.828	4294276.112	5243	30-Jun-15	BRIDGETON BOREHOLE 1	221715.164	
722162.976	4294275.68	5851	30-Jun-15	BRIDGETON BOREHOLE 1	221715.99	1377
722162.535	4294276.171	5851	30-Jun-15	BRIDGETON BOREHOLE 1	221715.99	
722162.858	4294275.248	5721	30-Jun-15	BRIDGETON BOREHOLE 1	221716.848	1378
722162.452	4294275.707	5721	30-Jun-15	BRIDGETON BOREHOLE 1	221716.848	
722162.849	4294274.653	5138	30-Jun-15	BRIDGETON BOREHOLE 1	221717.887	1379
722162.398	4294275.12	5138	30-Jun-15	BRIDGETON BOREHOLE 1	221717.887	
722162.937	4294273.948	5170	30-Jun-15	BRIDGETON BOREHOLE 1	221719.105	1380
722162.443	4294274.369	5170	30-Jun-15	BRIDGETON BOREHOLE 1	221719.105	
722162.971	4294273.499	5270	30-Jun-15	BRIDGETON BOREHOLE 1	221719.92	1381
722162.461	4294273.908	5270	30-Jun-15	BRIDGETON BOREHOLE 1	221719.92	
722163.038	4294272.878	5290	30-Jun-15	BRIDGETON BOREHOLE 1	221721.015	1382
722162.433	4294273.227	5290	30-Jun-15	BRIDGETON BOREHOLE 1	221721.015	
722163.098	4294272.41	5413	30-Jun-15	BRIDGETON BOREHOLE 1	221721.971	1383
722162.444	4294272.76	5413	30-Jun-15	BRIDGETON BOREHOLE 1	221721.971	
722163.064	4294272.129	5700	30-Jun-15	BRIDGETON BOREHOLE 1	221723.034	1384
722162.433	4294272.438	5700	30-Jun-15	BRIDGETON BOREHOLE 1	221723.034	
722162.95	4294272.214	5332	30-Jun-15	BRIDGETON BOREHOLE 1	221723.795	1385
722162.275	4294272.471	5332	30-Jun-15	BRIDGETON BOREHOLE 1	221723.795	
722163.073	4294272.453	5422	30-Jun-15	BRIDGETON BOREHOLE 1	221724.847	1386
722162.168	4294272.881	5422	30-Jun-15	BRIDGETON BOREHOLE 1	221724.847	
722162.872	4294273.253	5967	30-Jun-15	BRIDGETON BOREHOLE 1	221726.1	1387
722162.19	4294273.564	5967	30-Jun-15	BRIDGETON BOREHOLE 1	221726.1	
722162.769	4294273.659	5651	30-Jun-15	BRIDGETON BOREHOLE 1	221726.857	1388
722162.21	4294274.029	5651	30-Jun-15	BRIDGETON BOREHOLE 1	221726.857	
722162.736	4294274.22	5534	30-Jun-15	BRIDGETON BOREHOLE 1	221728.037	1389
722162.176	4294274.633	5534	30-Jun-15	BRIDGETON BOREHOLE 1	221728.037	
722162.701	4294274.691	5242	30-Jun-15	BRIDGETON BOREHOLE 1	221729.005	1390
722162.192	4294275.104	5242	30-Jun-15	BRIDGETON BOREHOLE 1	221729.005	
722162.679	4294275.078	4711	30-Jun-15	BRIDGETON BOREHOLE 1	221729.794	1391
722162.196	4294275.479	4711	30-Jun-15	BRIDGETON BOREHOLE 1	221729.794	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722162.548	4294275.548	4712	30-Jun-15	BRIDGETON BOREHOLE 1	221731.002	1392
722162.198	4294276.043	4712	30-Jun-15	BRIDGETON BOREHOLE 1	221731.002	
722162.24	4294275.697	4908	30-Jun-15	BRIDGETON BOREHOLE 1	221732.092	1393
722161.813	4294276.232	4908	30-Jun-15	BRIDGETON BOREHOLE 1	221732.092	
722162.359	4294275.039	5348	30-Jun-15	BRIDGETON BOREHOLE 1	221733.164	1394
722161.663	4294275.819	5348	30-Jun-15	BRIDGETON BOREHOLE 1	221733.164	
722162.35	4294274.484	4996	30-Jun-15	BRIDGETON BOREHOLE 1	221733.967	1395
722161.613	4294275.334	4996	30-Jun-15	BRIDGETON BOREHOLE 1	221733.967	
722162.372	4294274.019	5412	30-Jun-15	BRIDGETON BOREHOLE 1	221734.852	1396
722161.547	4294274.8	5412	30-Jun-15	BRIDGETON BOREHOLE 1	221734.852	
722162.429	4294273.322	5249	30-Jun-15	BRIDGETON BOREHOLE 1	221736.056	1397
722161.519	4294274.039	5249	30-Jun-15	BRIDGETON BOREHOLE 1	221736.056	
722162.392	4294272.689	5045	30-Jun-15	BRIDGETON BOREHOLE 1	221737.094	1398
722161.316	4294273.362	5045	30-Jun-15	BRIDGETON BOREHOLE 1	221737.094	
722162.439	4294272.392	4750	30-Jun-15	BRIDGETON BOREHOLE 1	221737.85	1399
722161.317	4294273.054	4750	30-Jun-15	BRIDGETON BOREHOLE 1	221737.85	
722162.412	4294271.895	5424	30-Jun-15	BRIDGETON BOREHOLE 1	221739.244	1400
722161.37	4294272.509	5424	30-Jun-15	BRIDGETON BOREHOLE 1	221739.244	
722162.236	4294271.824	5406	30-Jun-15	BRIDGETON BOREHOLE 1	221740.001	1401
722161.245	4294272.422	5406	30-Jun-15	BRIDGETON BOREHOLE 1	221740.001	
722162.182	4294272.023	5936	30-Jun-15	BRIDGETON BOREHOLE 1	221740.839	1402
722161.16	4294272.637	5936	30-Jun-15	BRIDGETON BOREHOLE 1	221740.839	
722162.126	4294272.871	5686	30-Jun-15	BRIDGETON BOREHOLE 1	221742.087	1403
722161.28	4294273.095	5686	30-Jun-15	BRIDGETON BOREHOLE 1	221742.087	
722161.844	4294273.286	5621	30-Jun-15	BRIDGETON BOREHOLE 1	221743.039	1404
722161.403	4294273.471	5621	30-Jun-15	BRIDGETON BOREHOLE 1	221743.039	
722161.927	4294273.657	5696	30-Jun-15	BRIDGETON BOREHOLE 1	221744.037	1405
722161.534	4294273.923	5696	30-Jun-15	BRIDGETON BOREHOLE 1	221744.037	
722162.112	4294274.265	4854	30-Jun-15	BRIDGETON BOREHOLE 1	221745.098	1406
722161.64	4294274.469	4854	30-Jun-15	BRIDGETON BOREHOLE 1	221745.098	
722161.997	4294274.783	4823	30-Jun-15	BRIDGETON BOREHOLE 1	221745.855	1407
722161.671	4294275.036	4823	30-Jun-15	BRIDGETON BOREHOLE 1	221745.855	
722162.146	4294275.353	4753	30-Jun-15	BRIDGETON BOREHOLE 1	221747.003	1408
722161.681	4294275.704	4753	30-Jun-15	BRIDGETON BOREHOLE 1	221747.003	
722161.691	4294275.771	4796	30-Jun-15	BRIDGETON BOREHOLE 1	221748.099	1409
722161.392	4294276.287	4796	30-Jun-15	BRIDGETON BOREHOLE 1	221748.099	
722161.461	4294275.565	5015	30-Jun-15	BRIDGETON BOREHOLE 1	221749.238	1410
722161.108	4294276.076	5015	30-Jun-15	BRIDGETON BOREHOLE 1	221749.238	
722161.469	4294275.029	5296	30-Jun-15	BRIDGETON BOREHOLE 1	221750.004	1411
722160.952	4294275.709	5296	30-Jun-15	BRIDGETON BOREHOLE 1	221750.004	
722161.636	4294274.67	5274	30-Jun-15	BRIDGETON BOREHOLE 1	221751.046	1412
722160.867	4294275.055	5274	30-Jun-15	BRIDGETON BOREHOLE 1	221751.046	
722161.677	4294274.276	5059	30-Jun-15	BRIDGETON BOREHOLE 1	221751.696	1413
722160.847	4294274.642	5059	30-Jun-15	BRIDGETON BOREHOLE 1	221751.696	
722161.757	4294273.551	4773	30-Jun-15	BRIDGETON BOREHOLE 1	221752.888	1414
722160.94	4294273.947	4773	30-Jun-15	BRIDGETON BOREHOLE 1	221752.888	
722161.834	4294272.923	4987	30-Jun-15	BRIDGETON BOREHOLE 1	221754.089	1415

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722160.874	4294273.244	4987	30-Jun-15	BRIDGETON BOREHOLE 1	221754.089	
722161.899	4294272.364	5085	30-Jun-15	BRIDGETON BOREHOLE 1	221755.192	1416
722160.869	4294272.735	5085	30-Jun-15	BRIDGETON BOREHOLE 1	221755.192	
722161.797	4294272.12	4930	30-Jun-15	BRIDGETON BOREHOLE 1	221756.041	1417
722160.877	4294272.34	4930	30-Jun-15	BRIDGETON BOREHOLE 1	221756.041	
722161.581	4294272.289	5233	30-Jun-15	BRIDGETON BOREHOLE 1	221757.107	1418
722160.882	4294272.313	5233	30-Jun-15	BRIDGETON BOREHOLE 1	221757.107	
722161.534	4294272.605	5561	30-Jun-15	BRIDGETON BOREHOLE 1	221757.972	1419
722160.948	4294272.628	5561	30-Jun-15	BRIDGETON BOREHOLE 1	221757.972	
722161.428	4294273.122	5288	30-Jun-15	BRIDGETON BOREHOLE 1	221759.073	1421
722161.012	4294273.091	5288	30-Jun-15	BRIDGETON BOREHOLE 1	221759.073	
722161.29	4294273.529	5577	30-Jun-15	BRIDGETON BOREHOLE 1	221759.812	1422
722161.037	4294273.472	5577	30-Jun-15	BRIDGETON BOREHOLE 1	221759.812	
722161.026	4294274.091	5586	30-Jun-15	BRIDGETON BOREHOLE 1	221761.042	1424
722161.152	4294274.226	5586	30-Jun-15	BRIDGETON BOREHOLE 1	221761.042	
722160.887	4294274.834	5400	30-Jun-15	BRIDGETON BOREHOLE 1	221762.136	1425
722161.136	4294274.747	5400	30-Jun-15	BRIDGETON BOREHOLE 1	221762.136	
722160.879	4294275.367	5055	30-Jun-15	BRIDGETON BOREHOLE 1	221763.217	1426
722160.87	4294275.389	5055	30-Jun-15	BRIDGETON BOREHOLE 1	221763.217	
722160.881	4294275.868	5153	30-Jun-15	BRIDGETON BOREHOLE 1	221764.006	1427
722160.692	4294275.709	5153	30-Jun-15	BRIDGETON BOREHOLE 1	221764.006	
722160.591	4294275.388	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221765.124	1428
722160.484	4294275.604	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221765.124	
722160.49	4294275.077	4901	30-Jun-15	BRIDGETON BOREHOLE 1	221765.881	1429
722160.233	4294275.349	4901	30-Jun-15	BRIDGETON BOREHOLE 1	221765.881	
722160.297	4294274.03	5307	30-Jun-15	BRIDGETON BOREHOLE 1	221767.045	1430
722160.045	4294274.619	5307	30-Jun-15	BRIDGETON BOREHOLE 1	221767.045	
722160.369	4294273.649	5242	30-Jun-15	BRIDGETON BOREHOLE 1	221767.766	1431
722160.013	4294274.167	5242	30-Jun-15	BRIDGETON BOREHOLE 1	221767.766	
722160.391	4294272.964	4944	30-Jun-15	BRIDGETON BOREHOLE 1	221768.901	1432
722159.904	4294273.406	4944	30-Jun-15	BRIDGETON BOREHOLE 1	221768.901	
722160.397	4294272.298	5353	30-Jun-15	BRIDGETON BOREHOLE 1	221770.131	1433
722159.917	4294272.703	5353	30-Jun-15	BRIDGETON BOREHOLE 1	221770.131	
722160.338	4294271.932	5471	30-Jun-15	BRIDGETON BOREHOLE 1	221771.235	1434
722159.876	4294272.326	5471	30-Jun-15	BRIDGETON BOREHOLE 1	221771.235	
722160.186	4294272.042	5297	30-Jun-15	BRIDGETON BOREHOLE 1	221772.12	1435
722159.713	4294272.424	5297	30-Jun-15	BRIDGETON BOREHOLE 1	221772.12	
722160.261	4294272.403	5552	30-Jun-15	BRIDGETON BOREHOLE 1	221772.915	1436
722159.734	4294272.729	5552	30-Jun-15	BRIDGETON BOREHOLE 1	221772.915	
722160.081	4294272.755	5380	30-Jun-15	BRIDGETON BOREHOLE 1	221774.027	1437
722159.98	4294273.116	5380	30-Jun-15	BRIDGETON BOREHOLE 1	221774.027	
722160.135	4294273.301	5374	30-Jun-15	BRIDGETON BOREHOLE 1	221775.119	1438
722160.029	4294273.719	5374	30-Jun-15	BRIDGETON BOREHOLE 1	221775.119	
722160.16	4294273.713	4957	30-Jun-15	BRIDGETON BOREHOLE 1	221775.894	1439
722160.078	4294274.088	4957	30-Jun-15	BRIDGETON BOREHOLE 1	221775.894	
722160.28	4294274.4	4401	30-Jun-15	BRIDGETON BOREHOLE 1	221777.099	1440
722160.188	4294274.849	4401	30-Jun-15	BRIDGETON BOREHOLE 1	221777.099	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722160.125	4294274.85	4793	30-Jun-15	BRIDGETON BOREHOLE 1	221777.906	1441
722160.271	4294275.295	4793	30-Jun-15	BRIDGETON BOREHOLE 1	221777.906	
722160.994	4294274.89	4563	30-Jun-15	BRIDGETON BOREHOLE 1	221779.105	1442
722160.056	4294275.847	4563	30-Jun-15	BRIDGETON BOREHOLE 1	221779.105	
722160.656	4294274.874	4892	30-Jun-15	BRIDGETON BOREHOLE 1	221779.96	1443
722159.706	4294275.813	4892	30-Jun-15	BRIDGETON BOREHOLE 1	221779.96	
722159.686	4294275.054	5287	30-Jun-15	BRIDGETON BOREHOLE 1	221780.861	1444
722159.462	4294275.517	5287	30-Jun-15	BRIDGETON BOREHOLE 1	221780.861	
722159.768	4294274.509	5118	30-Jun-15	BRIDGETON BOREHOLE 1	221781.73	1445
722159.289	4294274.958	5118	30-Jun-15	BRIDGETON BOREHOLE 1	221781.73	
722159.484	4294273.7	5054	30-Jun-15	BRIDGETON BOREHOLE 1	221782.861	1446
722159.164	4294274.23	5054	30-Jun-15	BRIDGETON BOREHOLE 1	221782.861	
722159.595	4294272.926	4973	30-Jun-15	BRIDGETON BOREHOLE 1	221783.985	1447
722159.181	4294273.552	4973	30-Jun-15	BRIDGETON BOREHOLE 1	221783.985	
722159.695	4294272.284	4882	30-Jun-15	BRIDGETON BOREHOLE 1	221785.051	1448
722159.29	4294272.939	4882	30-Jun-15	BRIDGETON BOREHOLE 1	221785.051	
722159.735	4294272.162	5071	30-Jun-15	BRIDGETON BOREHOLE 1	221785.855	1449
722159.278	4294272.558	5071	30-Jun-15	BRIDGETON BOREHOLE 1	221785.855	
722159.537	4294271.974	5215	30-Jun-15	BRIDGETON BOREHOLE 1	221786.941	1450
722159.065	4294272.115	5215	30-Jun-15	BRIDGETON BOREHOLE 1	221786.941	
722159.279	4294271.976	5341	30-Jun-15	BRIDGETON BOREHOLE 1	221787.805	1451
722158.759	4294272.254	5341	30-Jun-15	BRIDGETON BOREHOLE 1	221787.805	
722159.426	4294272.575	5464	30-Jun-15	BRIDGETON BOREHOLE 1	221789.043	1452
722158.747	4294272.621	5464	30-Jun-15	BRIDGETON BOREHOLE 1	221789.043	
722159.371	4294273.097	5571	30-Jun-15	BRIDGETON BOREHOLE 1	221789.871	1453
722158.825	4294272.984	5571	30-Jun-15	BRIDGETON BOREHOLE 1	221789.871	
722159.559	4294273.611	4536	30-Jun-15	BRIDGETON BOREHOLE 1	221791.059	1454
722158.983	4294273.666	4536	30-Jun-15	BRIDGETON BOREHOLE 1	221791.059	
722159.543	4294274.066	5019	30-Jun-15	BRIDGETON BOREHOLE 1	221791.877	1455
722159.026	4294274.111	5019	30-Jun-15	BRIDGETON BOREHOLE 1	221791.877	
722159.524	4294274.535	5020	30-Jun-15	BRIDGETON BOREHOLE 1	221792.86	1456
722159.11	4294274.594	5020	30-Jun-15	BRIDGETON BOREHOLE 1	221792.86	
722159.423	4294275.301	4909	30-Jun-15	BRIDGETON BOREHOLE 1	221794.173	1457
722159.041	4294275.293	4909	30-Jun-15	BRIDGETON BOREHOLE 1	221794.173	
722159.209	4294275.668	4463	30-Jun-15	BRIDGETON BOREHOLE 1	221794.987	1458
722158.705	4294275.675	4463	30-Jun-15	BRIDGETON BOREHOLE 1	221794.987	
722158.941	4294275.397	5023	30-Jun-15	BRIDGETON BOREHOLE 1	221796.15	1459
722158.245	4294275.455	5023	30-Jun-15	BRIDGETON BOREHOLE 1	221796.15	
722158.845	4294274.935	4790	30-Jun-15	BRIDGETON BOREHOLE 1	221796.959	1460
722158.143	4294275.006	4790	30-Jun-15	BRIDGETON BOREHOLE 1	221796.959	
722158.855	4294274.335	4644	30-Jun-15	BRIDGETON BOREHOLE 1	221798.087	1461
722158.053	4294274.366	4644	30-Jun-15	BRIDGETON BOREHOLE 1	221798.087	
722158.86	4294273.712	5170	30-Jun-15	BRIDGETON BOREHOLE 1	221799.094	1462
722157.906	4294273.66	5170	30-Jun-15	BRIDGETON BOREHOLE 1	221799.094	
722158.569	4294272.903	4685	30-Jun-15	BRIDGETON BOREHOLE 1	221800.003	1463
722157.77	4294273.11	4685	30-Jun-15	BRIDGETON BOREHOLE 1	221800.003	
722158.67	4294272.512	4765	30-Jun-15	BRIDGETON BOREHOLE 1	221801.004	1464

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722157.704	4294272.505	4765	30-Jun-15	BRIDGETON BOREHOLE 1	221801.004	
722158.998	4294272.227	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221802.01	1465
722157.669	4294271.932	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221802.01	
722158.579	4294271.738	5943	30-Jun-15	BRIDGETON BOREHOLE 1	221802.956	1466
722157.574	4294271.473	5943	30-Jun-15	BRIDGETON BOREHOLE 1	221802.956	
722158.624	4294271.859	6218	30-Jun-15	BRIDGETON BOREHOLE 1	221803.675	1467
722157.528	4294271.654	6218	30-Jun-15	BRIDGETON BOREHOLE 1	221803.675	
722158.656	4294272.289	6354	30-Jun-15	BRIDGETON BOREHOLE 1	221804.888	1468
722157.486	4294272.148	6354	30-Jun-15	BRIDGETON BOREHOLE 1	221804.888	
722158.286	4294272.378	5563	30-Jun-15	BRIDGETON BOREHOLE 1	221806.002	1469
722157.647	4294272.515	5563	30-Jun-15	BRIDGETON BOREHOLE 1	221806.002	
722158.589	4294273.082	5236	30-Jun-15	BRIDGETON BOREHOLE 1	221807.136	1470
722157.827	4294272.988	5236	30-Jun-15	BRIDGETON BOREHOLE 1	221807.136	
722158.549	4294273.475	5150	30-Jun-15	BRIDGETON BOREHOLE 1	221808.039	1471
722157.933	4294273.414	5150	30-Jun-15	BRIDGETON BOREHOLE 1	221808.039	
722158.518	4294273.958	5304	30-Jun-15	BRIDGETON BOREHOLE 1	221809.053	1472
722158.027	4294273.941	5304	30-Jun-15	BRIDGETON BOREHOLE 1	221809.053	
722158.472	4294274.237	4836	30-Jun-15	BRIDGETON BOREHOLE 1	221810.003	1473
722157.967	4294274.343	4836	30-Jun-15	BRIDGETON BOREHOLE 1	221810.003	
722158.267	4294274.906	4760	30-Jun-15	BRIDGETON BOREHOLE 1	221811.174	1474
722157.862	4294275.013	4760	30-Jun-15	BRIDGETON BOREHOLE 1	221811.174	
722157.797	4294275.101	4980	30-Jun-15	BRIDGETON BOREHOLE 1	221812.037	1475
722157.668	4294275.452	4980	30-Jun-15	BRIDGETON BOREHOLE 1	221812.037	
722157.876	4294275.483	5523	30-Jun-15	BRIDGETON BOREHOLE 1	221813.1	1476
722157.351	4294275.536	5523	30-Jun-15	BRIDGETON BOREHOLE 1	221813.1	
722157.863	4294275.037	5319	30-Jun-15	BRIDGETON BOREHOLE 1	221814.104	1477
722157.286	4294275.073	5319	30-Jun-15	BRIDGETON BOREHOLE 1	221814.104	
722158.085	4294274.55	5220	30-Jun-15	BRIDGETON BOREHOLE 1	221815.138	1478
722157.377	4294274.416	5220	30-Jun-15	BRIDGETON BOREHOLE 1	221815.138	
722158.196	4294274.019	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221815.96	1479
722157.463	4294273.891	4833	30-Jun-15	BRIDGETON BOREHOLE 1	221815.96	
722158.303	4294273.262	4571	30-Jun-15	BRIDGETON BOREHOLE 1	221817.108	1480
722157.532	4294273.143	4571	30-Jun-15	BRIDGETON BOREHOLE 1	221817.108	
722158.347	4294272.754	4626	30-Jun-15	BRIDGETON BOREHOLE 1	221818.1	1481
722157.562	4294272.615	4626	30-Jun-15	BRIDGETON BOREHOLE 1	221818.1	
722158.298	4294272.346	5347	30-Jun-15	BRIDGETON BOREHOLE 1	221819.114	1482
722157.393	4294272.283	5347	30-Jun-15	BRIDGETON BOREHOLE 1	221819.114	
722158.201	4294272.175	6195	30-Jun-15	BRIDGETON BOREHOLE 1	221819.871	1483
722157.332	4294272.081	6195	30-Jun-15	BRIDGETON BOREHOLE 1	221819.871	
722157.915	4294272.422	5863	30-Jun-15	BRIDGETON BOREHOLE 1	221821.037	1484
722156.944	4294272.243	5863	30-Jun-15	BRIDGETON BOREHOLE 1	221821.037	
722157.755	4294272.828	5608	30-Jun-15	BRIDGETON BOREHOLE 1	221822.165	1485
722156.871	4294272.674	5608	30-Jun-15	BRIDGETON BOREHOLE 1	221822.165	
722157.705	4294273.148	5194	30-Jun-15	BRIDGETON BOREHOLE 1	221822.985	1486
722156.833	4294272.986	5194	30-Jun-15	BRIDGETON BOREHOLE 1	221822.985	
722157.776	4294273.809	5254	30-Jun-15	BRIDGETON BOREHOLE 1	221824.107	1487
722156.899	4294273.579	5254	30-Jun-15	BRIDGETON BOREHOLE 1	221824.107	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722157.733	4294274.207	5220	30-Jun-15	BRIDGETON BOREHOLE 1	221825.113	1488
722156.934	4294274.028	5220	30-Jun-15	BRIDGETON BOREHOLE 1	221825.113	
722157.729	4294274.334	5066	30-Jun-15	BRIDGETON BOREHOLE 1	221825.711	1489
722156.941	4294274.178	5066	30-Jun-15	BRIDGETON BOREHOLE 1	221825.711	
722157.756	4294274.451	5257	30-Jun-15	BRIDGETON BOREHOLE 1	221826.854	1490
722157.033	4294274.396	5257	30-Jun-15	BRIDGETON BOREHOLE 1	221826.854	
722157.401	4294273.841	5514	30-Jun-15	BRIDGETON BOREHOLE 1	221828.037	1491
722157.064	4294274.572	5514	30-Jun-15	BRIDGETON BOREHOLE 1	221828.037	
722157.454	4294273.822	5607	30-Jun-15	BRIDGETON BOREHOLE 1	221829.105	1492
722157.152	4294274.835	5607	30-Jun-15	BRIDGETON BOREHOLE 1	221829.105	
722157.445	4294273.884	4976	30-Jun-15	BRIDGETON BOREHOLE 1	221829.861	1493
722157.166	4294274.832	4976	30-Jun-15	BRIDGETON BOREHOLE 1	221829.861	
722157.443	4294273.825	5266	30-Jun-15	BRIDGETON BOREHOLE 1	221831.041	1494
722157.192	4294274.844	5266	30-Jun-15	BRIDGETON BOREHOLE 1	221831.041	
722157.414	4294273.776	5385	30-Jun-15	BRIDGETON BOREHOLE 1	221832.131	1495
722157.214	4294274.712	5385	30-Jun-15	BRIDGETON BOREHOLE 1	221832.131	
722157.409	4294273.78	5219	30-Jun-15	BRIDGETON BOREHOLE 1	221833.003	1496
722157.22	4294274.735	5219	30-Jun-15	BRIDGETON BOREHOLE 1	221833.003	
722157.409	4294273.782	4765	30-Jun-15	BRIDGETON BOREHOLE 1	221833.8	1497
722157.214	4294274.77	4765	30-Jun-15	BRIDGETON BOREHOLE 1	221833.8	
722157.394	4294273.776	5050	30-Jun-15	BRIDGETON BOREHOLE 1	221834.852	1498
722157.181	4294274.814	5050	30-Jun-15	BRIDGETON BOREHOLE 1	221834.852	
722157.393	4294273.775	4851	30-Jun-15	BRIDGETON BOREHOLE 1	221835.734	1499
722157.173	4294274.838	4851	30-Jun-15	BRIDGETON BOREHOLE 1	221835.734	
722157.392	4294273.773	5008	30-Jun-15	BRIDGETON BOREHOLE 1	221836.899	1500
722157.16	4294274.864	5008	30-Jun-15	BRIDGETON BOREHOLE 1	221836.899	
722157.361	4294273.791	5007	30-Jun-15	BRIDGETON BOREHOLE 1	221838.1	1501
722157.154	4294274.853	5007	30-Jun-15	BRIDGETON BOREHOLE 1	221838.1	
722157.344	4294273.803	5029	30-Jun-15	BRIDGETON BOREHOLE 1	221839.177	1502
722157.151	4294274.828	5029	30-Jun-15	BRIDGETON BOREHOLE 1	221839.177	
722157.338	4294273.815	5251	30-Jun-15	BRIDGETON BOREHOLE 1	221840.039	1503
722157.155	4294274.791	5251	30-Jun-15	BRIDGETON BOREHOLE 1	221840.039	
722157.326	4294273.832	5219	30-Jun-15	BRIDGETON BOREHOLE 1	221841.179	1504
722157.152	4294274.827	5219	30-Jun-15	BRIDGETON BOREHOLE 1	221841.179	
722157.33	4294273.841	5538	30-Jun-15	BRIDGETON BOREHOLE 1	221841.967	1505
722157.158	4294274.852	5538	30-Jun-15	BRIDGETON BOREHOLE 1	221841.967	
722157.332	4294273.843	4802	30-Jun-15	BRIDGETON BOREHOLE 1	221842.856	1506
722157.158	4294274.877	4802	30-Jun-15	BRIDGETON BOREHOLE 1	221842.856	
722157.344	4294273.837	4509	30-Jun-15	BRIDGETON BOREHOLE 1	221843.929	1507
722157.168	4294274.888	4509	30-Jun-15	BRIDGETON BOREHOLE 1	221843.929	
722157.356	4294273.863	4493	30-Jun-15	BRIDGETON BOREHOLE 1	221845.037	1508
722157.189	4294274.875	4493	30-Jun-15	BRIDGETON BOREHOLE 1	221845.037	
722157.422	4294273.838	4500	30-Jun-15	BRIDGETON BOREHOLE 1	221845.855	1509
722157.223	4294274.827	4500	30-Jun-15	BRIDGETON BOREHOLE 1	221845.855	
722157.44	4294273.809	4923	30-Jun-15	BRIDGETON BOREHOLE 1	221847.129	1510
722157.282	4294274.669	4923	30-Jun-15	BRIDGETON BOREHOLE 1	221847.129	
722157.384	4294273.874	5484	30-Jun-15	BRIDGETON BOREHOLE 1	221847.887	1511

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722157.212	4294274.614	5484	30-Jun-15	BRIDGETON BOREHOLE 1	221847.887	
722157.387	4294273.885	5897	30-Jun-15	BRIDGETON BOREHOLE 1	221848.777	1512
722157.245	4294274.569	5897	30-Jun-15	BRIDGETON BOREHOLE 1	221848.777	
722157.423	4294273.886	5725	30-Jun-15	BRIDGETON BOREHOLE 1	221850.038	1513
722157.314	4294274.494	5725	30-Jun-15	BRIDGETON BOREHOLE 1	221850.038	
722157.436	4294274.105	5155	30-Jun-15	BRIDGETON BOREHOLE 1	221851.128	1514
722157.444	4294274.868	5155	30-Jun-15	BRIDGETON BOREHOLE 1	221851.128	
722157.354	4294274.396	5014	30-Jun-15	BRIDGETON BOREHOLE 1	221852.004	1515
722157.362	4294275.16	5014	30-Jun-15	BRIDGETON BOREHOLE 1	221852.004	
722157.107	4294275.014	5250	30-Jun-15	BRIDGETON BOREHOLE 1	221853.099	1516
722157.038	4294275.581	5250	30-Jun-15	BRIDGETON BOREHOLE 1	221853.099	
722156.815	4294275.136	5241	30-Jun-15	BRIDGETON BOREHOLE 1	221853.874	1517
722156.69	4294275.737	5241	30-Jun-15	BRIDGETON BOREHOLE 1	221853.874	
722156.799	4294275.291	5723	30-Jun-15	BRIDGETON BOREHOLE 1	221855.021	1518
722156.395	4294275.399	5723	30-Jun-15	BRIDGETON BOREHOLE 1	221855.021	
722156.481	4294274.604	5626	30-Jun-15	BRIDGETON BOREHOLE 1	221855.84	1519
722156.252	4294274.94	5626	30-Jun-15	BRIDGETON BOREHOLE 1	221855.84	
722156.731	4294274.356	5475	30-Jun-15	BRIDGETON BOREHOLE 1	221857.005	1520
722156.141	4294274.289	5475	30-Jun-15	BRIDGETON BOREHOLE 1	221857.005	
722156.615	4294273.605	5577	30-Jun-15	BRIDGETON BOREHOLE 1	221857.804	1521
722156.236	4294273.802	5577	30-Jun-15	BRIDGETON BOREHOLE 1	221857.804	
722156.861	4294273.527	4952	30-Jun-15	BRIDGETON BOREHOLE 1	221858.98	1522
722156.378	4294273.191	4952	30-Jun-15	BRIDGETON BOREHOLE 1	221858.98	
722156.999	4294272.815	4683	30-Jun-15	BRIDGETON BOREHOLE 1	221859.798	1523
722156.357	4294272.76	4683	30-Jun-15	BRIDGETON BOREHOLE 1	221859.798	
722157.025	4294272.186	4929	30-Jun-15	BRIDGETON BOREHOLE 1	221861.203	1524
722156.173	4294272.108	4929	30-Jun-15	BRIDGETON BOREHOLE 1	221861.203	
722156.912	4294272.202	5427	30-Jun-15	BRIDGETON BOREHOLE 1	221861.978	1525
722156.092	4294272.114	5427	30-Jun-15	BRIDGETON BOREHOLE 1	221861.978	
722156.666	4294272.466	5355	30-Jun-15	BRIDGETON BOREHOLE 1	221862.867	1526
722156.028	4294272.348	5355	30-Jun-15	BRIDGETON BOREHOLE 1	221862.867	
722156.561	4294272.781	5375	30-Jun-15	BRIDGETON BOREHOLE 1	221863.777	1527
722156.072	4294272.695	5375	30-Jun-15	BRIDGETON BOREHOLE 1	221863.777	
722156.527	4294273.389	4823	30-Jun-15	BRIDGETON BOREHOLE 1	221864.861	1528
722156.129	4294273.168	4823	30-Jun-15	BRIDGETON BOREHOLE 1	221864.861	
722156.543	4294274.199	4828	30-Jun-15	BRIDGETON BOREHOLE 1	221866.002	1529
722156.162	4294273.812	4828	30-Jun-15	BRIDGETON BOREHOLE 1	221866.002	
722156.38	4294274.459	4808	30-Jun-15	BRIDGETON BOREHOLE 1	221867.106	1530
722156.21	4294274.418	4808	30-Jun-15	BRIDGETON BOREHOLE 1	221867.106	
722156.308	4294274.811	5337	30-Jun-15	BRIDGETON BOREHOLE 1	221867.951	1531
722156.197	4294274.777	5337	30-Jun-15	BRIDGETON BOREHOLE 1	221867.951	
722156.078	4294275.269	5739	30-Jun-15	BRIDGETON BOREHOLE 1	221869.092	1532
722155.822	4294275.473	5739	30-Jun-15	BRIDGETON BOREHOLE 1	221869.092	
722155.851	4294275.249	5711	30-Jun-15	BRIDGETON BOREHOLE 1	221869.867	1533
722155.618	4294275.322	5711	30-Jun-15	BRIDGETON BOREHOLE 1	221869.867	
722155.635	4294274.807	5462	30-Jun-15	BRIDGETON BOREHOLE 1	221871.046	1534
722155.445	4294275.035	5462	30-Jun-15	BRIDGETON BOREHOLE 1	221871.046	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722155.769	4294274.342	5930	30-Jun-15	BRIDGETON BOREHOLE 1	221871.854	1535
722155.414	4294274.687	5930	30-Jun-15	BRIDGETON BOREHOLE 1	221871.854	
722155.964	4294273.786	5733	30-Jun-15	BRIDGETON BOREHOLE 1	221873.007	1537
722155.357	4294273.984	5733	30-Jun-15	BRIDGETON BOREHOLE 1	221873.007	
722156.041	4294273.195	5400	30-Jun-15	BRIDGETON BOREHOLE 1	221874.175	1538
722155.285	4294273.52	5400	30-Jun-15	BRIDGETON BOREHOLE 1	221874.175	
722156.06	4294272.733	4950	30-Jun-15	BRIDGETON BOREHOLE 1	221874.978	1539
722155.084	4294273.112	4950	30-Jun-15	BRIDGETON BOREHOLE 1	221874.978	
722156.147	4294272.259	4959	30-Jun-15	BRIDGETON BOREHOLE 1	221875.981	1541
722155.479	4294272.443	4959	30-Jun-15	BRIDGETON BOREHOLE 1	221875.981	
722156.044	4294271.919	5392	30-Jun-15	BRIDGETON BOREHOLE 1	221877.032	1542
722155.303	4294272.139	5392	30-Jun-15	BRIDGETON BOREHOLE 1	221877.032	
722156.018	4294272.016	5170	30-Jun-15	BRIDGETON BOREHOLE 1	221877.864	1543
722155.183	4294272.157	5170	30-Jun-15	BRIDGETON BOREHOLE 1	221877.864	
722156.188	4294272.202	4926	30-Jun-15	BRIDGETON BOREHOLE 1	221878.866	1544
722155.375	4294272.329	4926	30-Jun-15	BRIDGETON BOREHOLE 1	221878.866	
722156.109	4294272.586	5298	30-Jun-15	BRIDGETON BOREHOLE 1	221879.902	1546
722155.543	4294272.69	5298	30-Jun-15	BRIDGETON BOREHOLE 1	221879.902	
722155.993	4294273.233	5388	30-Jun-15	BRIDGETON BOREHOLE 1	221881.131	1548
722155.686	4294273.254	5388	30-Jun-15	BRIDGETON BOREHOLE 1	221881.131	
722155.971	4294273.628	5025	30-Jun-15	BRIDGETON BOREHOLE 1	221881.932	1549
722155.689	4294273.621	5025	30-Jun-15	BRIDGETON BOREHOLE 1	221881.932	
722155.849	4294274.194	4957	30-Jun-15	BRIDGETON BOREHOLE 1	221883.004	1550
722155.64	4294274.17	4957	30-Jun-15	BRIDGETON BOREHOLE 1	221883.004	
722155.966	4294274.668	5638	30-Jun-15	BRIDGETON BOREHOLE 1	221884.111	1551
722155.421	4294274.812	5638	30-Jun-15	BRIDGETON BOREHOLE 1	221884.111	
722155.443	4294274.933	5459	30-Jun-15	BRIDGETON BOREHOLE 1	221885.178	1552
722155.061	4294274.934	5459	30-Jun-15	BRIDGETON BOREHOLE 1	221885.178	
722155.494	4294274.49	5778	30-Jun-15	BRIDGETON BOREHOLE 1	221885.936	1553
722154.999	4294274.574	5778	30-Jun-15	BRIDGETON BOREHOLE 1	221885.936	
722155.478	4294273.947	5785	30-Jun-15	BRIDGETON BOREHOLE 1	221886.833	1554
722154.776	4294274.118	5785	30-Jun-15	BRIDGETON BOREHOLE 1	221886.833	
722155.559	4294273.582	5496	30-Jun-15	BRIDGETON BOREHOLE 1	221887.694	1555
722154.794	4294273.744	5496	30-Jun-15	BRIDGETON BOREHOLE 1	221887.694	
722155.28	4294272.837	5117	30-Jun-15	BRIDGETON BOREHOLE 1	221888.786	1556
722154.719	4294273.107	5117	30-Jun-15	BRIDGETON BOREHOLE 1	221888.786	
722155.424	4294272.203	4858	30-Jun-15	BRIDGETON BOREHOLE 1	221889.993	1557
722154.718	4294272.551	4858	30-Jun-15	BRIDGETON BOREHOLE 1	221889.993	
722155.457	4294271.762	5500	30-Jun-15	BRIDGETON BOREHOLE 1	221891.033	1558
722154.642	4294272.202	5500	30-Jun-15	BRIDGETON BOREHOLE 1	221891.033	
722155.415	4294271.482	5478	30-Jun-15	BRIDGETON BOREHOLE 1	221891.84	1559
722154.485	4294271.916	5478	30-Jun-15	BRIDGETON BOREHOLE 1	221891.84	
722155.594	4294271.597	7019	30-Jun-15	BRIDGETON BOREHOLE 1	221892.778	1560
722154.405	4294271.769	7019	30-Jun-15	BRIDGETON BOREHOLE 1	221892.778	
722155.595	4294271.836	5835	30-Jun-15	BRIDGETON BOREHOLE 1	221893.691	1561
722154.435	4294271.884	5835	30-Jun-15	BRIDGETON BOREHOLE 1	221893.691	
722155.565	4294272.251	5682	30-Jun-15	BRIDGETON BOREHOLE 1	221894.964	1562

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722154.661	4294272.131	5682	30-Jun-15	BRIDGETON BOREHOLE 1	221894.964	
722155.589	4294272.49	5416	30-Jun-15	BRIDGETON BOREHOLE 1	221895.777	1563
722154.887	4294272.415	5416	30-Jun-15	BRIDGETON BOREHOLE 1	221895.777	
722155.572	4294272.953	4636	30-Jun-15	BRIDGETON BOREHOLE 1	221896.849	1564
722155.066	4294272.948	4636	30-Jun-15	BRIDGETON BOREHOLE 1	221896.849	
722155.659	4294273.222	4775	30-Jun-15	BRIDGETON BOREHOLE 1	221898.001	1565
722155.21	4294273.581	4775	30-Jun-15	BRIDGETON BOREHOLE 1	221898.001	
722155.479	4294274.172	5048	30-Jun-15	BRIDGETON BOREHOLE 1	221899.144	1566
722155.161	4294274.241	5048	30-Jun-15	BRIDGETON BOREHOLE 1	221899.144	
722155.493	4294274.538	5104	30-Jun-15	BRIDGETON BOREHOLE 1	221899.898	1567
722155.038	4294274.621	5104	30-Jun-15	BRIDGETON BOREHOLE 1	221899.898	
722155.055	4294274.839	5984	30-Jun-15	BRIDGETON BOREHOLE 1	221900.771	1568
722154.719	4294274.859	5984	30-Jun-15	BRIDGETON BOREHOLE 1	221900.771	
722154.654	4294274.671	6834	30-Jun-15	BRIDGETON BOREHOLE 1	221901.852	1569
722154.272	4294274.711	6834	30-Jun-15	BRIDGETON BOREHOLE 1	221901.852	
722154.531	4294274.168	5592	30-Jun-15	BRIDGETON BOREHOLE 1	221903.001	1571
722154.217	4294274.13	5592	30-Jun-15	BRIDGETON BOREHOLE 1	221903.001	
722154.543	4294273.665	6108	30-Jun-15	BRIDGETON BOREHOLE 1	221903.808	1572
722154.05	4294273.694	6108	30-Jun-15	BRIDGETON BOREHOLE 1	221903.808	
722154.257	4294272.675	5305	30-Jun-15	BRIDGETON BOREHOLE 1	221904.957	1574
722154	4294273.283	5305	30-Jun-15	BRIDGETON BOREHOLE 1	221904.957	
722154.3	4294272.261	5279	30-Jun-15	BRIDGETON BOREHOLE 1	221905.856	1575
722154.133	4294272.987	5279	30-Jun-15	BRIDGETON BOREHOLE 1	221905.856	
722154.416	4294271.776	5144	30-Jun-15	BRIDGETON BOREHOLE 1	221907.033	1576
722154.198	4294272.418	5144	30-Jun-15	BRIDGETON BOREHOLE 1	221907.033	
722154.446	4294271.363	5316	30-Jun-15	BRIDGETON BOREHOLE 1	221907.809	1577
722154.29	4294272.043	5316	30-Jun-15	BRIDGETON BOREHOLE 1	221907.809	
722154.481	4294270.87	5975	30-Jun-15	BRIDGETON BOREHOLE 1	221908.88	1578
722154.22	4294271.44	5975	30-Jun-15	BRIDGETON BOREHOLE 1	221908.88	
722154.278	4294271.092	5525	30-Jun-15	BRIDGETON BOREHOLE 1	221909.879	1579
722154.063	4294271.638	5525	30-Jun-15	BRIDGETON BOREHOLE 1	221909.879	
722154.155	4294271.614	5725	30-Jun-15	BRIDGETON BOREHOLE 1	221911.036	1580
722153.994	4294272.151	5725	30-Jun-15	BRIDGETON BOREHOLE 1	221911.036	
722154.046	4294271.94	5973	30-Jun-15	BRIDGETON BOREHOLE 1	221911.803	1581
722153.941	4294272.539	5973	30-Jun-15	BRIDGETON BOREHOLE 1	221911.803	
722154.07	4294272.334	5452	30-Jun-15	BRIDGETON BOREHOLE 1	221913.131	1582
722153.947	4294273.193	5452	30-Jun-15	BRIDGETON BOREHOLE 1	221913.131	
722154.103	4294272.492	5182	30-Jun-15	BRIDGETON BOREHOLE 1	221913.708	1583
722153.98	4294273.392	5182	30-Jun-15	BRIDGETON BOREHOLE 1	221913.708	
722154.118	4294272.924	5337	30-Jun-15	BRIDGETON BOREHOLE 1	221914.854	1584
722154.002	4294273.909	5337	30-Jun-15	BRIDGETON BOREHOLE 1	221914.854	
722153.989	4294273.296	5079	30-Jun-15	BRIDGETON BOREHOLE 1	221916.087	1585
722153.97	4294274.316	5079	30-Jun-15	BRIDGETON BOREHOLE 1	221916.087	
722153.937	4294273.347	5287	30-Jun-15	BRIDGETON BOREHOLE 1	221917.21	1586
722153.9	4294274.361	5287	30-Jun-15	BRIDGETON BOREHOLE 1	221917.21	
722153.939	4294273.346	4939	30-Jun-15	BRIDGETON BOREHOLE 1	221918.006	1587
722153.897	4294274.293	4939	30-Jun-15	BRIDGETON BOREHOLE 1	221918.006	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722153.915	4294273.359	4908	30-Jun-15	BRIDGETON BOREHOLE 1	221919.034	1588
722153.851	4294274.208	4908	30-Jun-15	BRIDGETON BOREHOLE 1	221919.034	
722153.933	4294273.341	4725	30-Jun-15	BRIDGETON BOREHOLE 1	221919.705	1589
722153.843	4294274.201	4725	30-Jun-15	BRIDGETON BOREHOLE 1	221919.705	
722153.929	4294273.331	5411	30-Jun-15	BRIDGETON BOREHOLE 1	221920.764	1590
722153.746	4294274.336	5411	30-Jun-15	BRIDGETON BOREHOLE 1	221920.764	
722153.912	4294273.343	5353	30-Jun-15	BRIDGETON BOREHOLE 1	221921.742	1591
722153.695	4294274.422	5353	30-Jun-15	BRIDGETON BOREHOLE 1	221921.742	
722153.893	4294273.352	5576	30-Jun-15	BRIDGETON BOREHOLE 1	221923.148	1592
722153.715	4294274.341	5576	30-Jun-15	BRIDGETON BOREHOLE 1	221923.148	
722153.885	4294273.321	4809	30-Jun-15	BRIDGETON BOREHOLE 1	221923.937	1593
722153.751	4294274.241	4809	30-Jun-15	BRIDGETON BOREHOLE 1	221923.937	
722153.871	4294273.287	5172	30-Jun-15	BRIDGETON BOREHOLE 1	221924.848	1594
722153.774	4294274.136	5172	30-Jun-15	BRIDGETON BOREHOLE 1	221924.848	
722153.85	4294273.305	5684	30-Jun-15	BRIDGETON BOREHOLE 1	221925.752	1595
722153.772	4294274.11	5684	30-Jun-15	BRIDGETON BOREHOLE 1	221925.752	
722153.833	4294273.31	5447	30-Jun-15	BRIDGETON BOREHOLE 1	221926.9	1596
722153.762	4294274.074	5447	30-Jun-15	BRIDGETON BOREHOLE 1	221926.9	
722153.901	4294273.384	6064	30-Jun-15	BRIDGETON BOREHOLE 1	221928.055	1597
722153.806	4294274.175	6064	30-Jun-15	BRIDGETON BOREHOLE 1	221928.055	
722153.938	4294273.649	5506	30-Jun-15	BRIDGETON BOREHOLE 1	221929.144	1598
722153.903	4294274.508	5506	30-Jun-15	BRIDGETON BOREHOLE 1	221929.144	
722153.85	4294274.031	5894	30-Jun-15	BRIDGETON BOREHOLE 1	221930.034	1599
722153.931	4294275.068	5894	30-Jun-15	BRIDGETON BOREHOLE 1	221930.034	
722153.653	4294274.291	5925	30-Jun-15	BRIDGETON BOREHOLE 1	221931.091	1600
722153.778	4294275.598	5925	30-Jun-15	BRIDGETON BOREHOLE 1	221931.091	
722153.602	4294274.669	5665	30-Jun-15	BRIDGETON BOREHOLE 1	221931.848	1601
722153.506	4294275.498	5665	30-Jun-15	BRIDGETON BOREHOLE 1	221931.848	
722153.631	4294274.393	6097	30-Jun-15	BRIDGETON BOREHOLE 1	221932.713	1602
722153.306	4294275.288	6097	30-Jun-15	BRIDGETON BOREHOLE 1	221932.713	
722153.52	4294273.647	6048	30-Jun-15	BRIDGETON BOREHOLE 1	221933.905	1603
722153.18	4294274.522	6048	30-Jun-15	BRIDGETON BOREHOLE 1	221933.905	
722153.667	4294273.033	5563	30-Jun-15	BRIDGETON BOREHOLE 1	221934.959	1604
722153.253	4294273.722	5563	30-Jun-15	BRIDGETON BOREHOLE 1	221934.959	
722153.905	4294272.346	5057	30-Jun-15	BRIDGETON BOREHOLE 1	221935.898	1605
722153.35	4294272.998	5057	30-Jun-15	BRIDGETON BOREHOLE 1	221935.898	
722153.952	4294271.663	5282	30-Jun-15	BRIDGETON BOREHOLE 1	221937.135	1606
722153.275	4294272.309	5282	30-Jun-15	BRIDGETON BOREHOLE 1	221937.135	
722153.973	4294271.277	5416	30-Jun-15	BRIDGETON BOREHOLE 1	221937.922	1607
722153.271	4294271.875	5416	30-Jun-15	BRIDGETON BOREHOLE 1	221937.922	
722153.803	4294271.105	5694	30-Jun-15	BRIDGETON BOREHOLE 1	221938.787	1608
722153.081	4294271.581	5694	30-Jun-15	BRIDGETON BOREHOLE 1	221938.787	
722153.668	4294271.307	5940	30-Jun-15	BRIDGETON BOREHOLE 1	221939.79	1609
722152.859	4294271.754	5940	30-Jun-15	BRIDGETON BOREHOLE 1	221939.79	
722153.692	4294271.649	5868	30-Jun-15	BRIDGETON BOREHOLE 1	221941.046	1610
722152.909	4294272.119	5868	30-Jun-15	BRIDGETON BOREHOLE 1	221941.046	
722153.628	4294271.974	5633	30-Jun-15	BRIDGETON BOREHOLE 1	221941.859	1611

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722152.929	4294272.439	5633	30-Jun-15	BRIDGETON BOREHOLE 1	221941.859	
722153.521	4294272.705	5621	30-Jun-15	BRIDGETON BOREHOLE 1	221943.224	1612
722152.896	4294273.178	5621	30-Jun-15	BRIDGETON BOREHOLE 1	221943.224	
722153.476	4294273.123	5727	30-Jun-15	BRIDGETON BOREHOLE 1	221944.023	1613
722152.836	4294273.645	5727	30-Jun-15	BRIDGETON BOREHOLE 1	221944.023	
722153.391	4294273.587	5936	30-Jun-15	BRIDGETON BOREHOLE 1	221944.816	1614
722152.759	4294274.114	5936	30-Jun-15	BRIDGETON BOREHOLE 1	221944.816	
722153.182	4294274.097	5746	30-Jun-15	BRIDGETON BOREHOLE 1	221945.713	1615
722152.665	4294274.687	5746	30-Jun-15	BRIDGETON BOREHOLE 1	221945.713	
722152.735	4294274.21	5905	30-Jun-15	BRIDGETON BOREHOLE 1	221947.207	1616
722152.233	4294274.719	5905	30-Jun-15	BRIDGETON BOREHOLE 1	221947.207	
722152.714	4294273.898	6119	30-Jun-15	BRIDGETON BOREHOLE 1	221947.965	1617
722152.072	4294274.417	6119	30-Jun-15	BRIDGETON BOREHOLE 1	221947.965	
722152.725	4294273.409	5414	30-Jun-15	BRIDGETON BOREHOLE 1	221948.85	1618
722151.864	4294273.882	5414	30-Jun-15	BRIDGETON BOREHOLE 1	221948.85	
722152.784	4294272.789	5543	30-Jun-15	BRIDGETON BOREHOLE 1	221949.977	1619
722151.828	4294273.22	5543	30-Jun-15	BRIDGETON BOREHOLE 1	221949.977	
722152.892	4294271.941	5030	30-Jun-15	BRIDGETON BOREHOLE 1	221951.089	1620
722151.896	4294272.416	5030	30-Jun-15	BRIDGETON BOREHOLE 1	221951.089	
722152.896	4294271.483	5057	30-Jun-15	BRIDGETON BOREHOLE 1	221951.844	1621
722151.936	4294271.936	5057	30-Jun-15	BRIDGETON BOREHOLE 1	221951.844	
722152.903	4294271.005	5244	30-Jun-15	BRIDGETON BOREHOLE 1	221952.856	1622
722152.028	4294271.285	5244	30-Jun-15	BRIDGETON BOREHOLE 1	221952.856	
722152.875	4294270.745	7081	30-Jun-15	BRIDGETON BOREHOLE 1	221953.701	1623
722151.954	4294270.822	7081	30-Jun-15	BRIDGETON BOREHOLE 1	221953.701	
722152.529	4294270.92	7290	30-Jun-15	BRIDGETON BOREHOLE 1	221955.188	1624
722151.491	4294270.782	7290	30-Jun-15	BRIDGETON BOREHOLE 1	221955.188	
722152.34	4294271.281	5932	30-Jun-15	BRIDGETON BOREHOLE 1	221955.996	1625
722151.457	4294271.051	5932	30-Jun-15	BRIDGETON BOREHOLE 1	221955.996	
722152.298	4294271.702	5677	30-Jun-15	BRIDGETON BOREHOLE 1	221956.864	1626
722151.481	4294271.373	5677	30-Jun-15	BRIDGETON BOREHOLE 1	221956.864	
722152.232	4294272.374	5293	30-Jun-15	BRIDGETON BOREHOLE 1	221958.094	1627
722151.603	4294272.175	5293	30-Jun-15	BRIDGETON BOREHOLE 1	221958.094	
722152.327	4294272.781	5235	30-Jun-15	BRIDGETON BOREHOLE 1	221958.91	1628
722151.749	4294272.757	5235	30-Jun-15	BRIDGETON BOREHOLE 1	221958.91	
722152.223	4294273.495	5404	30-Jun-15	BRIDGETON BOREHOLE 1	221960.113	1629
722151.765	4294273.509	5404	30-Jun-15	BRIDGETON BOREHOLE 1	221960.113	
722152.082	4294273.95	5500	30-Jun-15	BRIDGETON BOREHOLE 1	221961.051	1630
722151.611	4294273.932	5500	30-Jun-15	BRIDGETON BOREHOLE 1	221961.051	
722152.013	4294274.001	5951	30-Jun-15	BRIDGETON BOREHOLE 1	221961.842	1631
722151.363	4294273.996	5951	30-Jun-15	BRIDGETON BOREHOLE 1	221961.842	
722151.785	4294273.493	5875	30-Jun-15	BRIDGETON BOREHOLE 1	221963.049	1632
722151.18	4294273.725	5875	30-Jun-15	BRIDGETON BOREHOLE 1	221963.049	
722151.8	4294272.941	5622	30-Jun-15	BRIDGETON BOREHOLE 1	221963.836	1633
722151.137	4294273.378	5622	30-Jun-15	BRIDGETON BOREHOLE 1	221963.836	
722151.967	4294272.24	5450	30-Jun-15	BRIDGETON BOREHOLE 1	221964.998	1635
722151.187	4294272.889	5450	30-Jun-15	BRIDGETON BOREHOLE 1	221964.998	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722152.02	4294271.75	5263	30-Jun-15	BRIDGETON BOREHOLE 1	221965.71	1637
722151.151	4294272.537	5263	30-Jun-15	BRIDGETON BOREHOLE 1	221965.71	
722152.145	4294271.09	5135	30-Jun-15	BRIDGETON BOREHOLE 1	221966.795	1638
722150.951	4294272.022	5135	30-Jun-15	BRIDGETON BOREHOLE 1	221966.795	
722152.138	4294270.416	5071	30-Jun-15	BRIDGETON BOREHOLE 1	221968.013	1639
722150.792	4294271.471	5071	30-Jun-15	BRIDGETON BOREHOLE 1	221968.013	
722151.926	4294270.278	5125	30-Jun-15	BRIDGETON BOREHOLE 1	221969.042	1640
722150.806	4294271.113	5125	30-Jun-15	BRIDGETON BOREHOLE 1	221969.042	
722151.873	4294270.591	5920	30-Jun-15	BRIDGETON BOREHOLE 1	221969.889	1641
722151.006	4294271.403	5920	30-Jun-15	BRIDGETON BOREHOLE 1	221969.889	
722151.753	4294271.085	5685	30-Jun-15	BRIDGETON BOREHOLE 1	221970.849	1643
722151.099	4294271.84	5685	30-Jun-15	BRIDGETON BOREHOLE 1	221970.849	
722151.444	4294271.573	5335	30-Jun-15	BRIDGETON BOREHOLE 1	221971.989	1645
722151.168	4294272.44	5335	30-Jun-15	BRIDGETON BOREHOLE 1	221971.989	
722151.524	4294272.414	5513	30-Jun-15	BRIDGETON BOREHOLE 1	221973.098	1646
722151.25	4294273.222	5513	30-Jun-15	BRIDGETON BOREHOLE 1	221973.098	
722151.487	4294272.722	5133	30-Jun-15	BRIDGETON BOREHOLE 1	221973.9	1647
722151.25	4294273.51	5133	30-Jun-15	BRIDGETON BOREHOLE 1	221973.9	
722151.404	4294273.136	5797	30-Jun-15	BRIDGETON BOREHOLE 1	221974.994	1648
722151.273	4294273.931	5797	30-Jun-15	BRIDGETON BOREHOLE 1	221974.994	
722151.159	4294273.414	6156	30-Jun-15	BRIDGETON BOREHOLE 1	221975.804	1649
722151.022	4294274.019	6156	30-Jun-15	BRIDGETON BOREHOLE 1	221975.804	
722150.835	4294273.017	5859	30-Jun-15	BRIDGETON BOREHOLE 1	221977.019	1650
722150.591	4294273.612	5859	30-Jun-15	BRIDGETON BOREHOLE 1	221977.019	
722150.74	4294272.592	5140	30-Jun-15	BRIDGETON BOREHOLE 1	221977.762	1651
722150.286	4294273.309	5140	30-Jun-15	BRIDGETON BOREHOLE 1	221977.762	
722150.836	4294271.884	5329	30-Jun-15	BRIDGETON BOREHOLE 1	221978.975	1652
722149.93	4294272.781	5329	30-Jun-15	BRIDGETON BOREHOLE 1	221978.975	
722150.958	4294271.271	5270	30-Jun-15	BRIDGETON BOREHOLE 1	221980.095	1653
722149.865	4294272.034	5270	30-Jun-15	BRIDGETON BOREHOLE 1	221980.095	
722151.145	4294270.729	5327	30-Jun-15	BRIDGETON BOREHOLE 1	221981.141	1654
722150.078	4294271.656	5327	30-Jun-15	BRIDGETON BOREHOLE 1	221981.141	
722151.24	4294270.381	4608	30-Jun-15	BRIDGETON BOREHOLE 1	221981.897	1655
722150.078	4294271.417	4608	30-Jun-15	BRIDGETON BOREHOLE 1	221981.897	
722151.359	4294269.617	4670	30-Jun-15	BRIDGETON BOREHOLE 1	221982.985	1656
722150.151	4294270.864	4670	30-Jun-15	BRIDGETON BOREHOLE 1	221982.985	
722151.171	4294269.601	5297	30-Jun-15	BRIDGETON BOREHOLE 1	221984.088	1657
722150.133	4294270.727	5297	30-Jun-15	BRIDGETON BOREHOLE 1	221984.088	
722151.016	4294269.715	5432	30-Jun-15	BRIDGETON BOREHOLE 1	221984.845	1658
722150.052	4294270.832	5432	30-Jun-15	BRIDGETON BOREHOLE 1	221984.845	
722150.857	4294270.083	5560	30-Jun-15	BRIDGETON BOREHOLE 1	221985.896	1659
722150.008	4294270.957	5560	30-Jun-15	BRIDGETON BOREHOLE 1	221985.896	
722150.789	4294270.65	5047	30-Jun-15	BRIDGETON BOREHOLE 1	221987.007	1660
722150.133	4294271.498	5047	30-Jun-15	BRIDGETON BOREHOLE 1	221987.007	
722150.66	4294271.114	4796	30-Jun-15	BRIDGETON BOREHOLE 1	221987.648	1661
722150.169	4294271.914	4796	30-Jun-15	BRIDGETON BOREHOLE 1	221987.648	
722150.501	4294271.974	4580	30-Jun-15	BRIDGETON BOREHOLE 1	221989.037	1662

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722150.105	4294272.785	4580	30-Jun-15	BRIDGETON BOREHOLE 1	221989.037	
722150.22	4294272.497	5216	30-Jun-15	BRIDGETON BOREHOLE 1	221990.049	1663
722149.8	4294273.248	5216	30-Jun-15	BRIDGETON BOREHOLE 1	221990.049	
722150.039	4294272.308	5147	30-Jun-15	BRIDGETON BOREHOLE 1	221990.83	1664
722149.589	4294273.051	5147	30-Jun-15	BRIDGETON BOREHOLE 1	221990.83	
722149.923	4294271.745	5220	30-Jun-15	BRIDGETON BOREHOLE 1	221991.973	1665
722149.053	4294272.865	5220	30-Jun-15	BRIDGETON BOREHOLE 1	221991.973	
722150.125	4294271.028	5276	30-Jun-15	BRIDGETON BOREHOLE 1	221993.104	1667
722148.679	4294272.336	5276	30-Jun-15	BRIDGETON BOREHOLE 1	221993.104	
722150.371	4294270.674	5270	30-Jun-15	BRIDGETON BOREHOLE 1	221993.863	1668
722148.61	4294271.821	5270	30-Jun-15	BRIDGETON BOREHOLE 1	221993.863	
722150.725	4294269.992	4832	30-Jun-15	BRIDGETON BOREHOLE 1	221995.077	1670
722148.799	4294271.307	4832	30-Jun-15	BRIDGETON BOREHOLE 1	221995.077	
722150.84	4294269.592	4863	30-Jun-15	BRIDGETON BOREHOLE 1	221995.893	1671
722148.874	4294270.74	4863	30-Jun-15	BRIDGETON BOREHOLE 1	221995.893	
722150.697	4294269.467	5180	30-Jun-15	BRIDGETON BOREHOLE 1	221996.921	1672
722149.017	4294270.319	5180	30-Jun-15	BRIDGETON BOREHOLE 1	221996.921	
722150.399	4294269.521	5261	30-Jun-15	BRIDGETON BOREHOLE 1	221997.79	1673
722149.007	4294270.198	5261	30-Jun-15	BRIDGETON BOREHOLE 1	221997.79	
722150.153	4294269.835	5352	30-Jun-15	BRIDGETON BOREHOLE 1	221998.934	1674
722149.189	4294270.504	5352	30-Jun-15	BRIDGETON BOREHOLE 1	221998.934	
722150.193	4294270.462	5523	30-Jun-15	BRIDGETON BOREHOLE 1	221999.757	1676
722149.323	4294270.987	5523	30-Jun-15	BRIDGETON BOREHOLE 1	221999.757	
722150.175	4294271.087	5259	30-Jun-15	BRIDGETON BOREHOLE 1	222000.858	1677
722149.417	4294271.53	5259	30-Jun-15	BRIDGETON BOREHOLE 1	222000.858	
722150.039	4294271.79	5088	30-Jun-15	BRIDGETON BOREHOLE 1	222001.851	1679
722149.417	4294271.966	5088	30-Jun-15	BRIDGETON BOREHOLE 1	222001.851	
722149.731	4294272.159	5382	30-Jun-15	BRIDGETON BOREHOLE 1	222003.036	1680
722149.29	4294272.563	5382	30-Jun-15	BRIDGETON BOREHOLE 1	222003.036	
722149.673	4294272.516	5457	30-Jun-15	BRIDGETON BOREHOLE 1	222003.782	1681
722149.052	4294272.832	5457	30-Jun-15	BRIDGETON BOREHOLE 1	222003.782	
722149.473	4294272.381	5927	30-Jun-15	BRIDGETON BOREHOLE 1	222005.048	1682
722148.88	4294272.684	5927	30-Jun-15	BRIDGETON BOREHOLE 1	222005.048	
722149.432	4294271.84	5492	30-Jun-15	BRIDGETON BOREHOLE 1	222005.829	1683
722148.926	4294272.316	5492	30-Jun-15	BRIDGETON BOREHOLE 1	222005.829	
722149.196	4294271.042	5024	30-Jun-15	BRIDGETON BOREHOLE 1	222006.947	1685
722148.895	4294271.612	5024	30-Jun-15	BRIDGETON BOREHOLE 1	222006.947	
722149.298	4294270.465	5234	30-Jun-15	BRIDGETON BOREHOLE 1	222007.73	1687
722148.94	4294271.109	5234	30-Jun-15	BRIDGETON BOREHOLE 1	222007.73	
722149.395	4294269.481	4886	30-Jun-15	BRIDGETON BOREHOLE 1	222008.995	1688
722149.012	4294270.53	4886	30-Jun-15	BRIDGETON BOREHOLE 1	222008.995	
722149.472	4294269.065	5051	30-Jun-15	BRIDGETON BOREHOLE 1	222009.927	1690
722148.977	4294270.018	5051	30-Jun-15	BRIDGETON BOREHOLE 1	222009.927	
722149.358	4294269.159	4768	30-Jun-15	BRIDGETON BOREHOLE 1	222010.732	1692
722148.593	4294269.953	4768	30-Jun-15	BRIDGETON BOREHOLE 1	222010.732	
722149.122	4294269.483	4955	30-Jun-15	BRIDGETON BOREHOLE 1	222011.899	1693
722148.34	4294269.815	4955	30-Jun-15	BRIDGETON BOREHOLE 1	222011.899	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722148.924	4294269.836	4774	30-Jun-15	BRIDGETON BOREHOLE 1	222012.795	1694
722148.42	4294269.838	4774	30-Jun-15	BRIDGETON BOREHOLE 1	222012.795	
722148.734	4294270.638	4320	30-Jun-15	BRIDGETON BOREHOLE 1	222013.976	1695
722148.487	4294270.666	4320	30-Jun-15	BRIDGETON BOREHOLE 1	222013.976	
722148.537	4294271.43	4747	30-Jun-15	BRIDGETON BOREHOLE 1	222015.139	1696
722148.386	4294271.602	4747	30-Jun-15	BRIDGETON BOREHOLE 1	222015.139	
722148.449	4294271.91	4898	30-Jun-15	BRIDGETON BOREHOLE 1	222015.952	1697
722148.353	4294271.992	4898	30-Jun-15	BRIDGETON BOREHOLE 1	222015.952	
722148.744	4294272.135	5065	30-Jun-15	BRIDGETON BOREHOLE 1	222017.085	1698
722148.654	4294272.262	5065	30-Jun-15	BRIDGETON BOREHOLE 1	222017.085	
722149.159	4294272.276	5609	30-Jun-15	BRIDGETON BOREHOLE 1	222017.839	1699
722149.167	4294272.465	5609	30-Jun-15	BRIDGETON BOREHOLE 1	222017.839	
722149.857	4294272.566	5210	30-Jun-15	BRIDGETON BOREHOLE 1	222018.787	1701
722149.85	4294272.88	5210	30-Jun-15	BRIDGETON BOREHOLE 1	222018.787	
722150.521	4294272.891	5398	30-Jun-15	BRIDGETON BOREHOLE 1	222019.916	1703
722150.541	4294273.45	5398	30-Jun-15	BRIDGETON BOREHOLE 1	222019.916	
722151.389	4294273.173	5886	30-Jun-15	BRIDGETON BOREHOLE 1	222021.033	1704
722151.199	4294273.931	5886	30-Jun-15	BRIDGETON BOREHOLE 1	222021.033	
722151.868	4294273.336	6452	30-Jun-15	BRIDGETON BOREHOLE 1	222021.788	1705
722151.708	4294274.16	6452	30-Jun-15	BRIDGETON BOREHOLE 1	222021.788	
722152.425	4294273.37	6413	30-Jun-15	BRIDGETON BOREHOLE 1	222022.722	1706
722152.294	4294274.114	6413	30-Jun-15	BRIDGETON BOREHOLE 1	222022.722	
722153.332	4294273.565	6703	30-Jun-15	BRIDGETON BOREHOLE 1	222024.094	1707
722153.22	4294274.42	6703	30-Jun-15	BRIDGETON BOREHOLE 1	222024.094	
722154.08	4294273.84	6356	30-Jun-15	BRIDGETON BOREHOLE 1	222025.036	1708
722153.67	4294274.795	6356	30-Jun-15	BRIDGETON BOREHOLE 1	222025.036	
722154.464	4294273.955	5578	30-Jun-15	BRIDGETON BOREHOLE 1	222025.823	1709
722154.185	4294275.101	5578	30-Jun-15	BRIDGETON BOREHOLE 1	222025.823	
722155.248	4294274.198	5350	30-Jun-15	BRIDGETON BOREHOLE 1	222027.091	1710
722154.969	4294275.392	5350	30-Jun-15	BRIDGETON BOREHOLE 1	222027.091	
722155.619	4294274.484	5574	30-Jun-15	BRIDGETON BOREHOLE 1	222027.846	1711
722155.448	4294275.469	5574	30-Jun-15	BRIDGETON BOREHOLE 1	222027.846	
722156.097	4294274.693	5790	30-Jun-15	BRIDGETON BOREHOLE 1	222028.82	1712
722156.186	4294275.662	5790	30-Jun-15	BRIDGETON BOREHOLE 1	222028.82	
722156.731	4294274.773	6077	30-Jun-15	BRIDGETON BOREHOLE 1	222030.035	1713
722156.99	4294276.167	6077	30-Jun-15	BRIDGETON BOREHOLE 1	222030.035	
722157.463	4294274.905	4819	30-Jun-15	BRIDGETON BOREHOLE 1	222031.054	1714
722157.567	4294276.265	4819	30-Jun-15	BRIDGETON BOREHOLE 1	222031.054	
722157.959	4294274.978	4946	30-Jun-15	BRIDGETON BOREHOLE 1	222031.767	1715
722157.983	4294276.298	4946	30-Jun-15	BRIDGETON BOREHOLE 1	222031.767	
722158.81	4294275.052	5039	30-Jun-15	BRIDGETON BOREHOLE 1	222032.815	1716
722158.662	4294276.284	5039	30-Jun-15	BRIDGETON BOREHOLE 1	222032.815	
722159.712	4294275.09	5130	30-Jun-15	BRIDGETON BOREHOLE 1	222034.091	1717
722159.47	4294276.232	5130	30-Jun-15	BRIDGETON BOREHOLE 1	222034.091	
722160.494	4294275.014	5158	30-Jun-15	BRIDGETON BOREHOLE 1	222035.097	1718
722160.28	4294276.208	5158	30-Jun-15	BRIDGETON BOREHOLE 1	222035.097	
722161.077	4294274.973	5398	30-Jun-15	BRIDGETON BOREHOLE 1	222035.876	1719

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722160.84	4294276.342	5398	30-Jun-15	BRIDGETON BOREHOLE 1	222035.876	
722161.979	4294275.032	5249	30-Jun-15	BRIDGETON BOREHOLE 1	222037.043	1720
722161.507	4294276.632	5249	30-Jun-15	BRIDGETON BOREHOLE 1	222037.043	
722162.52	4294275.134	4940	30-Jun-15	BRIDGETON BOREHOLE 1	222037.805	1721
722161.888	4294276.615	4940	30-Jun-15	BRIDGETON BOREHOLE 1	222037.805	
722163.161	4294275.21	5268	30-Jun-15	BRIDGETON BOREHOLE 1	222038.948	1722
722162.332	4294276.549	5268	30-Jun-15	BRIDGETON BOREHOLE 1	222038.948	
722163.696	4294275.289	5536	30-Jun-15	BRIDGETON BOREHOLE 1	222039.884	1723
722162.912	4294276.4	5536	30-Jun-15	BRIDGETON BOREHOLE 1	222039.884	
722164.531	4294275.299	5386	30-Jun-15	BRIDGETON BOREHOLE 1	222041.036	1724
722163.625	4294276.45	5386	30-Jun-15	BRIDGETON BOREHOLE 1	222041.036	
722165.171	4294275.258	5302	30-Jun-15	BRIDGETON BOREHOLE 1	222041.812	1725
722164.149	4294276.38	5302	30-Jun-15	BRIDGETON BOREHOLE 1	222041.812	
722165.753	4294275.226	5150	30-Jun-15	BRIDGETON BOREHOLE 1	222043.036	1726
722164.772	4294276.359	5150	30-Jun-15	BRIDGETON BOREHOLE 1	222043.036	
722166.382	4294275.175	4802	30-Jun-15	BRIDGETON BOREHOLE 1	222043.92	1727
722165.498	4294276.342	4802	30-Jun-15	BRIDGETON BOREHOLE 1	222043.92	
722166.888	4294275.005	4846	30-Jun-15	BRIDGETON BOREHOLE 1	222045.031	1728
722166.061	4294276.166	4846	30-Jun-15	BRIDGETON BOREHOLE 1	222045.031	
722166.94	4294274.63	5073	30-Jun-15	BRIDGETON BOREHOLE 1	222045.665	1729
722166.126	4294275.796	5073	30-Jun-15	BRIDGETON BOREHOLE 1	222045.665	
722166.957	4294273.8	5096	30-Jun-15	BRIDGETON BOREHOLE 1	222046.865	1730
722166.186	4294274.914	5096	30-Jun-15	BRIDGETON BOREHOLE 1	222046.865	
722166.932	4294272.812	5491	30-Jun-15	BRIDGETON BOREHOLE 1	222047.919	1731
722166.18	4294274.137	5491	30-Jun-15	BRIDGETON BOREHOLE 1	222047.919	
722166.508	4294272.405	5489	30-Jun-15	BRIDGETON BOREHOLE 1	222049.038	1732
722166.181	4294273.428	5489	30-Jun-15	BRIDGETON BOREHOLE 1	222049.038	
722166.483	4294272.351	7653	30-Jun-15	BRIDGETON BOREHOLE 1	222049.8	1733
722166.033	4294273.339	7653	30-Jun-15	BRIDGETON BOREHOLE 1	222049.8	
722166.481	4294272.355	7073	30-Jun-15	BRIDGETON BOREHOLE 1	222050.848	1734
722165.947	4294273.367	7073	30-Jun-15	BRIDGETON BOREHOLE 1	222050.848	
722166.467	4294272.333	8188	30-Jun-15	BRIDGETON BOREHOLE 1	222051.76	1735
722165.872	4294273.382	8188	30-Jun-15	BRIDGETON BOREHOLE 1	222051.76	
722166.492	4294272.422	6877	30-Jun-15	BRIDGETON BOREHOLE 1	222053.041	1736
722165.909	4294273.289	6877	30-Jun-15	BRIDGETON BOREHOLE 1	222053.041	
722166.565	4294272.37	7779	30-Jun-15	BRIDGETON BOREHOLE 1	222053.813	1737
722166.012	4294273.219	7779	30-Jun-15	BRIDGETON BOREHOLE 1	222053.813	
722166.607	4294272.336	6354	30-Jun-15	BRIDGETON BOREHOLE 1	222054.91	1738
722166.037	4294273.26	6354	30-Jun-15	BRIDGETON BOREHOLE 1	222054.91	
722166.583	4294272.305	7318	30-Jun-15	BRIDGETON BOREHOLE 1	222055.752	1739
722165.97	4294273.285	7318	30-Jun-15	BRIDGETON BOREHOLE 1	222055.752	
722166.566	4294272.281	6959	30-Jun-15	BRIDGETON BOREHOLE 1	222056.815	1740
722165.925	4294273.321	6959	30-Jun-15	BRIDGETON BOREHOLE 1	222056.815	
722166.554	4294272.262	7110	30-Jun-15	BRIDGETON BOREHOLE 1	222058.003	1741
722165.937	4294273.3	7110	30-Jun-15	BRIDGETON BOREHOLE 1	222058.003	
722166.553	4294272.258	6937	30-Jun-15	BRIDGETON BOREHOLE 1	222058.796	1742
722166.002	4294273.229	6937	30-Jun-15	BRIDGETON BOREHOLE 1	222058.796	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722166.543	4294272.253	6204	30-Jun-15	BRIDGETON BOREHOLE 1	222059.947	1743
722166.233	4294272.993	6204	30-Jun-15	BRIDGETON BOREHOLE 1	222059.947	
722166.537	4294272.252	6741	30-Jun-15	BRIDGETON BOREHOLE 1	222061.064	1744
722166.484	4294272.759	6741	30-Jun-15	BRIDGETON BOREHOLE 1	222061.064	
722166.536	4294272.258	6845	30-Jun-15	BRIDGETON BOREHOLE 1	222061.825	1745
722166.554	4294272.698	6845	30-Jun-15	BRIDGETON BOREHOLE 1	222061.825	
722166.556	4294272.24	7921	30-Jun-15	BRIDGETON BOREHOLE 1	222062.879	1746
722166.641	4294272.621	7921	30-Jun-15	BRIDGETON BOREHOLE 1	222062.879	
722158.037	4294196.833	5508	01-Jul-15	BRIDGETON BOREHOLE 1	318701.084	
722158.042	4294196.866	5476	01-Jul-15	BRIDGETON BOREHOLE 1	318702.495	
722158.068	4294196.884	6005	01-Jul-15	BRIDGETON BOREHOLE 1	318703.308	
722158.128	4294196.822	6025	01-Jul-15	BRIDGETON BOREHOLE 1	318704.239	
722158.142	4294196.741	6324	01-Jul-15	BRIDGETON BOREHOLE 1	318705.279	
722153.555	4294196.372	6221	01-Jul-15	BRIDGETON BOREHOLE 1	318752.135	
722153.526	4294196.341	5888	01-Jul-15	BRIDGETON BOREHOLE 1	318753.347	
722153.538	4294196.376	6042	01-Jul-15	BRIDGETON BOREHOLE 1	318754.098	
722153.561	4294196.425	6195	01-Jul-15	BRIDGETON BOREHOLE 1	318755.413	
722153.59	4294196.454	5268	01-Jul-15	BRIDGETON BOREHOLE 1	318756.355	
722153.62	4294196.493	5071	01-Jul-15	BRIDGETON BOREHOLE 1	318757.459	
722153.634	4294196.513	5080	01-Jul-15	BRIDGETON BOREHOLE 1	318758.33	
722153.652	4294196.522	5520	01-Jul-15	BRIDGETON BOREHOLE 1	318759.275	
722153.673	4294196.54	5370	01-Jul-15	BRIDGETON BOREHOLE 1	318760.443	
722153.676	4294196.569	5263	01-Jul-15	BRIDGETON BOREHOLE 1	318761.536	
722153.68	4294196.579	5540	01-Jul-15	BRIDGETON BOREHOLE 1	318762.191	
722153.766	4294196.611	6401	01-Jul-15	BRIDGETON BOREHOLE 1	318763.365	
722153.907	4294196.678	5580	01-Jul-15	BRIDGETON BOREHOLE 1	318764.099	
722154.051	4294196.738	5539	01-Jul-15	BRIDGETON BOREHOLE 1	318765.358	
722154.112	4294196.766	5673	01-Jul-15	BRIDGETON BOREHOLE 1	318766.36	
722154.129	4294196.775	5441	01-Jul-15	BRIDGETON BOREHOLE 1	318767.464	
722154.12	4294196.766	5993	01-Jul-15	BRIDGETON BOREHOLE 1	318768.348	
722154.038	4294196.701	5966	01-Jul-15	BRIDGETON BOREHOLE 1	318769.353	
722153.729	4294196.621	5688	01-Jul-15	BRIDGETON BOREHOLE 1	318770.478	
722153.403	4294196.506	5314	01-Jul-15	BRIDGETON BOREHOLE 1	318771.343	
722152.963	4294196.248	6027	01-Jul-15	BRIDGETON BOREHOLE 1	318772.22	
722152.165	4294195.811	5155	01-Jul-15	BRIDGETON BOREHOLE 1	318773.368	
722151.601	4294195.534	6289	01-Jul-15	BRIDGETON BOREHOLE 1	318774.221	
722151.062	4294195.251	6012	01-Jul-15	BRIDGETON BOREHOLE 1	318775.337	
722150.44	4294194.897	6334	01-Jul-15	BRIDGETON BOREHOLE 1	318776.423	
722149.755	4294194.537	6383	01-Jul-15	BRIDGETON BOREHOLE 1	318777.475	
722149.332	4294194.283	5918	01-Jul-15	BRIDGETON BOREHOLE 1	318778.28	
722148.836	4294193.933	5459	01-Jul-15	BRIDGETON BOREHOLE 1	318779.343	
722148.487	4294193.561	5756	01-Jul-15	BRIDGETON BOREHOLE 1	318780.389	
722148.052	4294193.184	5892	01-Jul-15	BRIDGETON BOREHOLE 1	318781.363	
722147.599	4294192.828	5812	01-Jul-15	BRIDGETON BOREHOLE 1	318782.245	
722147.087	4294192.528	6514	01-Jul-15	BRIDGETON BOREHOLE 1	318783.422	
722146.591	4294192.236	5802	01-Jul-15	BRIDGETON BOREHOLE 1	318784.379	
722145.919	4294191.906	5671	01-Jul-15	BRIDGETON BOREHOLE 1	318785.506	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722145.661	4294191.775	5822	01-Jul-15	BRIDGETON BOREHOLE 1	318786.111	
722144.905	4294191.447	5277	01-Jul-15	BRIDGETON BOREHOLE 1	318787.374	
722144.068	4294191.044	5563	01-Jul-15	BRIDGETON BOREHOLE 1	318788.446	
722143.548	4294190.812	5304	01-Jul-15	BRIDGETON BOREHOLE 1	318789.305	
722143.063	4294190.638	5376	01-Jul-15	BRIDGETON BOREHOLE 1	318790.4	
722142.546	4294190.391	5656	01-Jul-15	BRIDGETON BOREHOLE 1	318791.462	
722142.232	4294190.197	5544	01-Jul-15	BRIDGETON BOREHOLE 1	318792.309	
722141.828	4294189.962	5038	01-Jul-15	BRIDGETON BOREHOLE 1	318793.473	
722141.465	4294189.704	4446	01-Jul-15	BRIDGETON BOREHOLE 1	318794.402	
722140.994	4294189.32	4578	01-Jul-15	BRIDGETON BOREHOLE 1	318795.474	
722140.705	4294189.101	4803	01-Jul-15	BRIDGETON BOREHOLE 1	318796.104	
722140.272	4294188.721	4771	01-Jul-15	BRIDGETON BOREHOLE 1	318797.116	
722139.835	4294188.35	4814	01-Jul-15	BRIDGETON BOREHOLE 1	318798.181	
722139.363	4294188.005	4987	01-Jul-15	BRIDGETON BOREHOLE 1	318799.356	
722139.04	4294187.782	4965	01-Jul-15	BRIDGETON BOREHOLE 1	318800.118	
722138.633	4294187.405	4900	01-Jul-15	BRIDGETON BOREHOLE 1	318801.234	
722138.373	4294187.141	5081	01-Jul-15	BRIDGETON BOREHOLE 1	318802.331	
722138.035	4294186.581	5400	01-Jul-15	BRIDGETON BOREHOLE 1	318803.557	
722138.029	4294186.205	5595	01-Jul-15	BRIDGETON BOREHOLE 1	318804.229	
722138.428	4294185.945	5277	01-Jul-15	BRIDGETON BOREHOLE 1	318805.293	
722138.619	4294186.21	5113	01-Jul-15	BRIDGETON BOREHOLE 1	318806.142	
722139.093	4294186.8	5021	01-Jul-15	BRIDGETON BOREHOLE 1	318807.336	
722139.492	4294187.176	4879	01-Jul-15	BRIDGETON BOREHOLE 1	318808.307	
722139.984	4294187.57	4792	01-Jul-15	BRIDGETON BOREHOLE 1	318809.51	
722140.302	4294187.789	5253	01-Jul-15	BRIDGETON BOREHOLE 1	318810.355	
722140.69	4294188.024	4950	01-Jul-15	BRIDGETON BOREHOLE 1	318811.345	
722141.175	4294188.322	5461	01-Jul-15	BRIDGETON BOREHOLE 1	318812.43	
722141.771	4294188.645	6064	01-Jul-15	BRIDGETON BOREHOLE 1	318813.506	
722142.185	4294188.855	5739	01-Jul-15	BRIDGETON BOREHOLE 1	318814.236	
722142.811	4294189.136	5628	01-Jul-15	BRIDGETON BOREHOLE 1	318815.345	
722143.254	4294189.366	6280	01-Jul-15	BRIDGETON BOREHOLE 1	318816.202	
722143.817	4294189.655	6790	01-Jul-15	BRIDGETON BOREHOLE 1	318817.362	
722144.415	4294189.944	6497	01-Jul-15	BRIDGETON BOREHOLE 1	318818.381	
722144.947	4294190.336	6261	01-Jul-15	BRIDGETON BOREHOLE 1	318819.481	
722145.293	4294190.625	5825	01-Jul-15	BRIDGETON BOREHOLE 1	318820.317	
722145.888	4294190.932	5931	01-Jul-15	BRIDGETON BOREHOLE 1	318821.533	
722146.177	4294191.075	6044	01-Jul-15	BRIDGETON BOREHOLE 1	318822.204	
722146.545	4294191.292	5492	01-Jul-15	BRIDGETON BOREHOLE 1	318823.539	
722146.812	4294191.427	5452	01-Jul-15	BRIDGETON BOREHOLE 1	318824.411	
722147.231	4294191.633	5631	01-Jul-15	BRIDGETON BOREHOLE 1	318825.432	
722147.597	4294191.827	5470	01-Jul-15	BRIDGETON BOREHOLE 1	318826.195	
722148.141	4294192.163	5297	01-Jul-15	BRIDGETON BOREHOLE 1	318827.238	
722148.911	4294192.652	5184	01-Jul-15	BRIDGETON BOREHOLE 1	318828.524	
722149.399	4294192.92	5159	01-Jul-15	BRIDGETON BOREHOLE 1	318829.356	
722150.035	4294193.287	5234	01-Jul-15	BRIDGETON BOREHOLE 1	318830.426	
722150.629	4294193.584	5809	01-Jul-15	BRIDGETON BOREHOLE 1	318831.368	
722151.066	4294193.769	5433	01-Jul-15	BRIDGETON BOREHOLE 1	318832.096	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722151.602	4294194.099	5516	01-Jul-15	BRIDGETON BOREHOLE 1	318833.137	
722152.371	4294194.541	5975	01-Jul-15	BRIDGETON BOREHOLE 1	318834.326	
722152.952	4294194.931	5956	01-Jul-15	BRIDGETON BOREHOLE 1	318835.351	
722153.528	4294195.281	5787	01-Jul-15	BRIDGETON BOREHOLE 1	318836.263	
722154.041	4294195.628	5243	01-Jul-15	BRIDGETON BOREHOLE 1	318837.317	
722154.533	4294195.684	5379	01-Jul-15	BRIDGETON BOREHOLE 1	318838.503	
722154.619	4294195.52	5478	01-Jul-15	BRIDGETON BOREHOLE 1	318839.376	
722154.393	4294195.231	5526	01-Jul-15	BRIDGETON BOREHOLE 1	318840.406	
722154.126	4294195.059	5591	01-Jul-15	BRIDGETON BOREHOLE 1	318841.104	
722153.609	4294194.912	5650	01-Jul-15	BRIDGETON BOREHOLE 1	318842.152	
722153.019	4294194.704	6168	01-Jul-15	BRIDGETON BOREHOLE 1	318843.287	
722152.554	4294194.542	5178	01-Jul-15	BRIDGETON BOREHOLE 1	318844.212	
722152.027	4294194.251	5515	01-Jul-15	BRIDGETON BOREHOLE 1	318845.279	
722151.474	4294193.924	5967	01-Jul-15	BRIDGETON BOREHOLE 1	318846.433	
722150.886	4294193.656	5411	01-Jul-15	BRIDGETON BOREHOLE 1	318847.496	
722150.397	4294193.416	5376	01-Jul-15	BRIDGETON BOREHOLE 1	318848.363	
722149.731	4294193.076	5364	01-Jul-15	BRIDGETON BOREHOLE 1	318849.457	
722149.255	4294192.853	6055	01-Jul-15	BRIDGETON BOREHOLE 1	318850.242	
722148.741	4294192.503	6800	01-Jul-15	BRIDGETON BOREHOLE 1	318851.305	
722148.281	4294192.248	6530	01-Jul-15	BRIDGETON BOREHOLE 1	318852.101	
722147.862	4294191.946	6012	01-Jul-15	BRIDGETON BOREHOLE 1	318853.103	
722147.38	4294191.529	6589	01-Jul-15	BRIDGETON BOREHOLE 1	318854.448	
722147.027	4294191.229	6177	01-Jul-15	BRIDGETON BOREHOLE 1	318855.5	
722146.775	4294191.036	5796	01-Jul-15	BRIDGETON BOREHOLE 1	318856.289	
722146.367	4294190.712	5488	01-Jul-15	BRIDGETON BOREHOLE 1	318857.366	
722145.876	4294190.36	5374	01-Jul-15	BRIDGETON BOREHOLE 1	318858.429	
722145.374	4294190.068	5610	01-Jul-15	BRIDGETON BOREHOLE 1	318859.351	
722144.787	4294189.775	5473	01-Jul-15	BRIDGETON BOREHOLE 1	318860.356	
722144.218	4294189.454	5291	01-Jul-15	BRIDGETON BOREHOLE 1	318861.384	
722143.843	4294189.222	5294	01-Jul-15	BRIDGETON BOREHOLE 1	318862.188	
722143.446	4294188.956	6090	01-Jul-15	BRIDGETON BOREHOLE 1	318863.455	
722143.169	4294188.778	5598	01-Jul-15	BRIDGETON BOREHOLE 1	318864.211	
722142.71	4294188.508	6089	01-Jul-15	BRIDGETON BOREHOLE 1	318865.211	
722142.291	4294188.291	5568	01-Jul-15	BRIDGETON BOREHOLE 1	318866.392	
722141.871	4294188.01	6252	01-Jul-15	BRIDGETON BOREHOLE 1	318867.464	
722141.573	4294187.819	7293	01-Jul-15	BRIDGETON BOREHOLE 1	318868.176	
722141.05	4294187.494	6173	01-Jul-15	BRIDGETON BOREHOLE 1	318869.225	
722140.619	4294187.124	5719	01-Jul-15	BRIDGETON BOREHOLE 1	318870.229	
722140.142	4294186.68	5452	01-Jul-15	BRIDGETON BOREHOLE 1	318871.35	
722139.691	4294186.309	5594	01-Jul-15	BRIDGETON BOREHOLE 1	318872.434	
722139.339	4294186.029	5621	01-Jul-15	BRIDGETON BOREHOLE 1	318873.215	
722138.944	4294185.371	5149	01-Jul-15	BRIDGETON BOREHOLE 1	318874.326	
722138.923	4294185.28	5266	01-Jul-15	BRIDGETON BOREHOLE 1	318874.428	
722139.119	4294184.567	5752	01-Jul-15	BRIDGETON BOREHOLE 1	318876.337	
722139.255	4294184.615	5448	01-Jul-15	BRIDGETON BOREHOLE 1	318877.218	
722139.528	4294184.769	5614	01-Jul-15	BRIDGETON BOREHOLE 1	318878.39	
722139.936	4294185.07	6530	01-Jul-15	BRIDGETON BOREHOLE 1	318879.398	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722140.432	4294185.365	6522	01-Jul-15	BRIDGETON BOREHOLE 1	318880.337	
722141	4294185.726	6130	01-Jul-15	BRIDGETON BOREHOLE 1	318881.464	
722141.296	4294185.931	6245	01-Jul-15	BRIDGETON BOREHOLE 1	318882.088	
722142.058	4294186.406	7785	01-Jul-15	BRIDGETON BOREHOLE 1	318883.215	
722142.72	4294186.821	7286	01-Jul-15	BRIDGETON BOREHOLE 1	318884.339	
722143.126	4294187.152	5942	01-Jul-15	BRIDGETON BOREHOLE 1	318885.482	
722143.297	4294187.423	6218	01-Jul-15	BRIDGETON BOREHOLE 1	318886.337	
722143.212	4294187.673	6126	01-Jul-15	BRIDGETON BOREHOLE 1	318887.199	
722142.882	4294187.853	7531	01-Jul-15	BRIDGETON BOREHOLE 1	318888.346	
722142.604	4294187.894	8182	01-Jul-15	BRIDGETON BOREHOLE 1	318889.346	
722142.606	4294187.958	7235	01-Jul-15	BRIDGETON BOREHOLE 1	318890.2	
722142.981	4294188.062	7569	01-Jul-15	BRIDGETON BOREHOLE 1	318891.28	
722143.077	4294187.866	6842	01-Jul-15	BRIDGETON BOREHOLE 1	318892.416	
722142.894	4294187.788	7650	01-Jul-15	BRIDGETON BOREHOLE 1	318893.281	
722142.584	4294187.839	7732	01-Jul-15	BRIDGETON BOREHOLE 1	318894.098	
722142.568	4294188.167	6463	01-Jul-15	BRIDGETON BOREHOLE 1	318895.194	
722143.034	4294188.125	6476	01-Jul-15	BRIDGETON BOREHOLE 1	318896.316	
722143.211	4294187.524	6839	01-Jul-15	BRIDGETON BOREHOLE 1	318897.436	
722143.491	4294187.351	7769	01-Jul-15	BRIDGETON BOREHOLE 1	318898.263	
722144.092	4294187.389	7312	01-Jul-15	BRIDGETON BOREHOLE 1	318899.342	
722144.595	4294187.625	6478	01-Jul-15	BRIDGETON BOREHOLE 1	318900.356	
722145.063	4294187.932	5594	01-Jul-15	BRIDGETON BOREHOLE 1	318901.363	
722145.412	4294188.189	5051	01-Jul-15	BRIDGETON BOREHOLE 1	318902.097	
722145.976	4294188.583	5016	01-Jul-15	BRIDGETON BOREHOLE 1	318903.329	
722146.505	4294188.964	5341	01-Jul-15	BRIDGETON BOREHOLE 1	318904.443	
722146.952	4294189.243	5689	01-Jul-15	BRIDGETON BOREHOLE 1	318905.354	
722147.35	4294189.532	5623	01-Jul-15	BRIDGETON BOREHOLE 1	318906.181	
722147.875	4294189.926	5870	01-Jul-15	BRIDGETON BOREHOLE 1	318907.339	
722148.488	4294190.263	5762	01-Jul-15	BRIDGETON BOREHOLE 1	318908.472	
722148.94	4294190.552	5843	01-Jul-15	BRIDGETON BOREHOLE 1	318909.31	
722149.445	4294190.839	5604	01-Jul-15	BRIDGETON BOREHOLE 1	318910.201	
722149.995	4294191.249	5762	01-Jul-15	BRIDGETON BOREHOLE 1	318911.338	
722150.385	4294191.632	5281	01-Jul-15	BRIDGETON BOREHOLE 1	318912.217	
722150.974	4294191.946	4920	01-Jul-15	BRIDGETON BOREHOLE 1	318913.308	
722151.319	4294192.257	5062	01-Jul-15	BRIDGETON BOREHOLE 1	318914.184	
722151.869	4294192.725	5502	01-Jul-15	BRIDGETON BOREHOLE 1	318915.309	
722152.364	4294193.196	5480	01-Jul-15	BRIDGETON BOREHOLE 1	318916.497	
722152.776	4294193.506	5407	01-Jul-15	BRIDGETON BOREHOLE 1	318917.343	
722153.3	4294193.79	6243	01-Jul-15	BRIDGETON BOREHOLE 1	318918.23	
722153.902	4294194.337	6360	01-Jul-15	BRIDGETON BOREHOLE 1	318919.49	
722154.168	4294194.566	5850	01-Jul-15	BRIDGETON BOREHOLE 1	318920.142	
722154.753	4294194.91	5960	01-Jul-15	BRIDGETON BOREHOLE 1	318921.447	
722154.907	4294194.93	5715	01-Jul-15	BRIDGETON BOREHOLE 1	318922.341	
722154.956	4294194.737	5344	01-Jul-15	BRIDGETON BOREHOLE 1	318923.176	
722155.11	4294194.408	5609	01-Jul-15	BRIDGETON BOREHOLE 1	318924.303	
722154.918	4294194.312	5487	01-Jul-15	BRIDGETON BOREHOLE 1	318925.369	
722154.621	4294194.133	6438	01-Jul-15	BRIDGETON BOREHOLE 1	318926.229	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722154.301	4294193.86	6169	01-Jul-15	BRIDGETON BOREHOLE 1	318927.104	
722153.839	4294193.563	5613	01-Jul-15	BRIDGETON BOREHOLE 1	318928.346	
722153.415	4294193.258	5900	01-Jul-15	BRIDGETON BOREHOLE 1	318929.194	
722152.808	4294192.895	5801	01-Jul-15	BRIDGETON BOREHOLE 1	318930.323	
722152.265	4294192.703	5460	01-Jul-15	BRIDGETON BOREHOLE 1	318931.31	
722151.822	4294192.525	6281	01-Jul-15	BRIDGETON BOREHOLE 1	318932.208	
722151.255	4294192.307	6460	01-Jul-15	BRIDGETON BOREHOLE 1	318933.381	
722150.683	4294192.007	5755	01-Jul-15	BRIDGETON BOREHOLE 1	318934.343	
722150.118	4294191.582	6298	01-Jul-15	BRIDGETON BOREHOLE 1	318935.471	
722149.828	4294191.309	6547	01-Jul-15	BRIDGETON BOREHOLE 1	318936.185	
722149.402	4294190.939	5710	01-Jul-15	BRIDGETON BOREHOLE 1	318937.262	
722148.999	4294190.614	5477	01-Jul-15	BRIDGETON BOREHOLE 1	318938.174	
722148.454	4294190.274	5698	01-Jul-15	BRIDGETON BOREHOLE 1	318939.111	
722147.689	4294189.834	5613	01-Jul-15	BRIDGETON BOREHOLE 1	318940.408	
722147.149	4294189.561	6097	01-Jul-15	BRIDGETON BOREHOLE 1	318941.38	
722146.677	4294189.31	5511	01-Jul-15	BRIDGETON BOREHOLE 1	318942.234	
722145.921	4294188.842	6047	01-Jul-15	BRIDGETON BOREHOLE 1	318943.519	
722145.592	4294188.64	6078	01-Jul-15	BRIDGETON BOREHOLE 1	318944.174	
722145.052	4294188.256	4994	01-Jul-15	BRIDGETON BOREHOLE 1	318945.216	
722144.501	4294187.863	5554	01-Jul-15	BRIDGETON BOREHOLE 1	318946.185	
722143.933	4294187.548	5876	01-Jul-15	BRIDGETON BOREHOLE 1	318947.278	
722143.536	4294187.428	6778	01-Jul-15	BRIDGETON BOREHOLE 1	318948.075	
722142.782	4294187.156	6614	01-Jul-15	BRIDGETON BOREHOLE 1	318949.426	
722142.294	4294186.922	6843	01-Jul-15	BRIDGETON BOREHOLE 1	318950.242	
722141.61	4294186.543	6390	01-Jul-15	BRIDGETON BOREHOLE 1	318951.273	
722140.962	4294186.152	6277	01-Jul-15	BRIDGETON BOREHOLE 1	318952.269	
722140.445	4294185.782	6119	01-Jul-15	BRIDGETON BOREHOLE 1	318953.391	
722140.031	4294185.509	5820	01-Jul-15	BRIDGETON BOREHOLE 1	318954.167	
722139.564	4294185.065	5628	01-Jul-15	BRIDGETON BOREHOLE 1	318955.545	
722139.462	4294184.644	5731	01-Jul-15	BRIDGETON BOREHOLE 1	318956.439	
722139.758	4294184.472	5668	01-Jul-15	BRIDGETON BOREHOLE 1	318957.465	
722140.215	4294184.624	6166	01-Jul-15	BRIDGETON BOREHOLE 1	318958.347	
722140.734	4294185.018	6581	01-Jul-15	BRIDGETON BOREHOLE 1	318959.447	
722141.178	4294185.36	6655	01-Jul-15	BRIDGETON BOREHOLE 1	318960.263	
722141.76	4294185.718	7754	01-Jul-15	BRIDGETON BOREHOLE 1	318961.339	
722142.241	4294186.011	7068	01-Jul-15	BRIDGETON BOREHOLE 1	318962.181	
722142.877	4294186.46	6957	01-Jul-15	BRIDGETON BOREHOLE 1	318963.38	
722143.43	4294186.834	6089	01-Jul-15	BRIDGETON BOREHOLE 1	318964.313	
722144.027	4294187.22	6078	01-Jul-15	BRIDGETON BOREHOLE 1	318965.185	
722144.6	4294187.699	5689	01-Jul-15	BRIDGETON BOREHOLE 1	318966.302	
722145.251	4294188.078	5823	01-Jul-15	BRIDGETON BOREHOLE 1	318967.4	
722145.678	4294188.259	5435	01-Jul-15	BRIDGETON BOREHOLE 1	318968.095	
722146.376	4294188.614	6155	01-Jul-15	BRIDGETON BOREHOLE 1	318969.219	
722146.988	4294188.981	6103	01-Jul-15	BRIDGETON BOREHOLE 1	318970.305	
722147.591	4294189.298	6203	01-Jul-15	BRIDGETON BOREHOLE 1	318971.435	
722148.037	4294189.476	5461	01-Jul-15	BRIDGETON BOREHOLE 1	318972.073	
722148.583	4294189.866	5419	01-Jul-15	BRIDGETON BOREHOLE 1	318973.196	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722149.297	4294190.257	5471	01-Jul-15	BRIDGETON BOREHOLE 1	318974.365	
722149.833	4294190.647	5807	01-Jul-15	BRIDGETON BOREHOLE 1	318975.475	
722150.176	4294190.873	5672	01-Jul-15	BRIDGETON BOREHOLE 1	318976.267	
722150.691	4294191.06	5703	01-Jul-15	BRIDGETON BOREHOLE 1	318977.132	
722151.261	4294191.362	5353	01-Jul-15	BRIDGETON BOREHOLE 1	318978.252	
722152.002	4294191.673	5973	01-Jul-15	BRIDGETON BOREHOLE 1	318979.466	
722152.207	4294191.895	6575	01-Jul-15	BRIDGETON BOREHOLE 1	318980.093	
722153.008	4294192.298	5273	01-Jul-15	BRIDGETON BOREHOLE 1	318981.19	
722153.696	4294192.742	5186	01-Jul-15	BRIDGETON BOREHOLE 1	318982.344	
722154.303	4294193.172	5602	01-Jul-15	BRIDGETON BOREHOLE 1	318983.438	
722154.694	4294193.512	5776	01-Jul-15	BRIDGETON BOREHOLE 1	318984.279	
722155.086	4294193.875	5694	01-Jul-15	BRIDGETON BOREHOLE 1	318985.199	
722155.542	4294194.112	5602	01-Jul-15	BRIDGETON BOREHOLE 1	318986.105	
722156.047	4294193.891	5874	01-Jul-15	BRIDGETON BOREHOLE 1	318987.43	
722156.101	4294193.507	6041	01-Jul-15	BRIDGETON BOREHOLE 1	318988.356	
722155.777	4294193.153	5940	01-Jul-15	BRIDGETON BOREHOLE 1	318989.385	
722155.451	4294192.955	6244	01-Jul-15	BRIDGETON BOREHOLE 1	318990.095	
722154.825	4294192.57	5581	01-Jul-15	BRIDGETON BOREHOLE 1	318991.428	
722154.502	4294192.341	5888	01-Jul-15	BRIDGETON BOREHOLE 1	318992.041	
722153.775	4294191.962	5913	01-Jul-15	BRIDGETON BOREHOLE 1	318993.103	
722152.819	4294191.614	5922	01-Jul-15	BRIDGETON BOREHOLE 1	318994.343	
722152.297	4294191.395	6038	01-Jul-15	BRIDGETON BOREHOLE 1	318995.202	
722151.54	4294191.078	5324	01-Jul-15	BRIDGETON BOREHOLE 1	318996.338	
722150.874	4294190.806	6265	01-Jul-15	BRIDGETON BOREHOLE 1	318997.423	
722150.525	4294190.662	5376	01-Jul-15	BRIDGETON BOREHOLE 1	318998.115	
722150.12	4294190.288	5574	01-Jul-15	BRIDGETON BOREHOLE 1	318999.353	
722149.648	4294189.886	5520	01-Jul-15	BRIDGETON BOREHOLE 1	319000.391	
722149.238	4294189.635	5557	01-Jul-15	BRIDGETON BOREHOLE 1	319001.101	
722148.363	4294189.147	5391	01-Jul-15	BRIDGETON BOREHOLE 1	319002.43	
722147.917	4294188.84	5792	01-Jul-15	BRIDGETON BOREHOLE 1	319003.236	
722147.352	4294188.463	5964	01-Jul-15	BRIDGETON BOREHOLE 1	319004.456	
722146.95	4294188.233	5619	01-Jul-15	BRIDGETON BOREHOLE 1	319005.186	
722146.335	4294187.942	5741	01-Jul-15	BRIDGETON BOREHOLE 1	319006.203	
722145.721	4294187.509	5381	01-Jul-15	BRIDGETON BOREHOLE 1	319007.318	
722145.279	4294187.235	5449	01-Jul-15	BRIDGETON BOREHOLE 1	319008.164	
722144.64	4294186.868	5578	01-Jul-15	BRIDGETON BOREHOLE 1	319009.356	
722144.103	4294186.617	6160	01-Jul-15	BRIDGETON BOREHOLE 1	319010.209	
722143.386	4294186.329	6045	01-Jul-15	BRIDGETON BOREHOLE 1	319011.356	
722142.872	4294186.018	6601	01-Jul-15	BRIDGETON BOREHOLE 1	319012.17	
722142.252	4294185.456	8490	01-Jul-15	BRIDGETON BOREHOLE 1	319013.521	
722141.984	4294185.205	7912	01-Jul-15	BRIDGETON BOREHOLE 1	319014.175	
722141.625	4294184.913	7438	01-Jul-15	BRIDGETON BOREHOLE 1	319015.222	
722141.207	4294184.553	7229	01-Jul-15	BRIDGETON BOREHOLE 1	319016.394	
722141.023	4294184.309	7447	01-Jul-15	BRIDGETON BOREHOLE 1	319017.225	
722141.393	4294184.079	8191	01-Jul-15	BRIDGETON BOREHOLE 1	319018.342	
722142.009	4294184.146	9457	01-Jul-15	BRIDGETON BOREHOLE 1	319019.434	
722142.388	4294184.383	8154	01-Jul-15	BRIDGETON BOREHOLE 1	319020.191	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722142.811	4294184.725	7258	01-Jul-15	BRIDGETON BOREHOLE 1	319021.049	
722143.562	4294185.092	7094	01-Jul-15	BRIDGETON BOREHOLE 1	319022.249	
722144.257	4294185.41	6273	01-Jul-15	BRIDGETON BOREHOLE 1	319023.318	
722144.806	4294185.693	6488	01-Jul-15	BRIDGETON BOREHOLE 1	319024.272	
722145.49	4294185.95	6242	01-Jul-15	BRIDGETON BOREHOLE 1	319025.265	
722145.876	4294186.135	6480	01-Jul-15	BRIDGETON BOREHOLE 1	319026.042	
722146.374	4294186.529	6240	01-Jul-15	BRIDGETON BOREHOLE 1	319027.119	
722146.873	4294186.946	5880	01-Jul-15	BRIDGETON BOREHOLE 1	319028.194	
722147.382	4294187.504	6195	01-Jul-15	BRIDGETON BOREHOLE 1	319029.347	
722147.767	4294187.803	6378	01-Jul-15	BRIDGETON BOREHOLE 1	319030.103	
722148.584	4294188.068	5662	01-Jul-15	BRIDGETON BOREHOLE 1	319031.459	
722149.108	4294188.294	5765	01-Jul-15	BRIDGETON BOREHOLE 1	319032.274	
722149.863	4294188.691	5665	01-Jul-15	BRIDGETON BOREHOLE 1	319033.351	
722150.252	4294188.941	5646	01-Jul-15	BRIDGETON BOREHOLE 1	319034.126	
722150.968	4294189.29	5921	01-Jul-15	BRIDGETON BOREHOLE 1	319035.275	
722151.335	4294189.664	6045	01-Jul-15	BRIDGETON BOREHOLE 1	319036.216	
722151.997	4294190.055	5905	01-Jul-15	BRIDGETON BOREHOLE 1	319037.354	
722152.621	4294190.353	6014	01-Jul-15	BRIDGETON BOREHOLE 1	319038.262	
722153.057	4294190.698	6210	01-Jul-15	BRIDGETON BOREHOLE 1	319039.17	
722153.628	4294191.308	7072	01-Jul-15	BRIDGETON BOREHOLE 1	319040.367	
722154.081	4294191.657	6628	01-Jul-15	BRIDGETON BOREHOLE 1	319041.301	
722154.51	4294191.888	5737	01-Jul-15	BRIDGETON BOREHOLE 1	319042.127	
722155.039	4294192.057	5694	01-Jul-15	BRIDGETON BOREHOLE 1	319043.198	
722155.79	4294192.379	5880	01-Jul-15	BRIDGETON BOREHOLE 1	319044.416	
722156.104	4294192.585	5715	01-Jul-15	BRIDGETON BOREHOLE 1	319045.125	
722156.853	4294192.704	5959	01-Jul-15	BRIDGETON BOREHOLE 1	319046.342	
722157.355	4294192.59	5362	01-Jul-15	BRIDGETON BOREHOLE 1	319047.442	
722157.63	4294192.38	5408	01-Jul-15	BRIDGETON BOREHOLE 1	319048.102	
722157.908	4294191.955	5382	01-Jul-15	BRIDGETON BOREHOLE 1	319049.207	
722157.57	4294191.708	5382	01-Jul-15	BRIDGETON BOREHOLE 1	319050.343	
722156.972	4294191.45	5847	01-Jul-15	BRIDGETON BOREHOLE 1	319051.46	
722156.485	4294191.216	5389	01-Jul-15	BRIDGETON BOREHOLE 1	319052.279	
722155.774	4294190.88	6084	01-Jul-15	BRIDGETON BOREHOLE 1	319053.349	
722155.141	4294190.628	5566	01-Jul-15	BRIDGETON BOREHOLE 1	319054.293	
722154.339	4294190.364	5583	01-Jul-15	BRIDGETON BOREHOLE 1	319055.44	
722153.806	4294190.151	5720	01-Jul-15	BRIDGETON BOREHOLE 1	319056.293	
722153.227	4294189.831	6105	01-Jul-15	BRIDGETON BOREHOLE 1	319057.279	
722152.832	4294189.616	6039	01-Jul-15	BRIDGETON BOREHOLE 1	319058.103	
722152.333	4294189.345	5812	01-Jul-15	BRIDGETON BOREHOLE 1	319059.102	
722151.541	4294188.965	5399	01-Jul-15	BRIDGETON BOREHOLE 1	319060.389	
722150.947	4294188.681	5482	01-Jul-15	BRIDGETON BOREHOLE 1	319061.379	
722150.492	4294188.519	5551	01-Jul-15	BRIDGETON BOREHOLE 1	319062.106	
722149.821	4294188.367	5366	01-Jul-15	BRIDGETON BOREHOLE 1	319063.106	
722149.08	4294188.093	5891	01-Jul-15	BRIDGETON BOREHOLE 1	319064.217	
722148.383	4294187.7	6034	01-Jul-15	BRIDGETON BOREHOLE 1	319065.335	
722147.763	4294187.336	6176	01-Jul-15	BRIDGETON BOREHOLE 1	319066.366	
722147.1	4294186.911	5541	01-Jul-15	BRIDGETON BOREHOLE 1	319067.473	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722146.712	4294186.652	5614	01-Jul-15	BRIDGETON BOREHOLE 1	319068.333	
722146.347	4294186.542	6060	01-Jul-15	BRIDGETON BOREHOLE 1	319069.261	
722145.802	4294186.382	5782	01-Jul-15	BRIDGETON BOREHOLE 1	319070.154	
722145.021	4294186.016	5675	01-Jul-15	BRIDGETON BOREHOLE 1	319071.172	
722144.425	4294185.784	5862	01-Jul-15	BRIDGETON BOREHOLE 1	319071.981	
722143.505	4294185.298	6237	01-Jul-15	BRIDGETON BOREHOLE 1	319073.323	
722143.027	4294184.986	6719	01-Jul-15	BRIDGETON BOREHOLE 1	319074.14	
722142.438	4294184.641	7560	01-Jul-15	BRIDGETON BOREHOLE 1	319075.305	
722142.026	4294184.292	8550	01-Jul-15	BRIDGETON BOREHOLE 1	319076.169	
722141.966	4294183.624	8167	01-Jul-15	BRIDGETON BOREHOLE 1	319077.416	
722141.967	4294183.623	8161	01-Jul-15	BRIDGETON BOREHOLE 1	319077.417	
722142.359	4294183.318	6420	01-Jul-15	BRIDGETON BOREHOLE 1	319079.339	
722142.242	4294183.449	7455	01-Jul-15	BRIDGETON BOREHOLE 1	319080.402	
722142.078	4294183.546	8193	01-Jul-15	BRIDGETON BOREHOLE 1	319081.135	
722142.573	4294183.555	6908	01-Jul-15	BRIDGETON BOREHOLE 1	319082.308	
722143.233	4294183.705	7067	01-Jul-15	BRIDGETON BOREHOLE 1	319083.244	
722143.829	4294184.011	6533	01-Jul-15	BRIDGETON BOREHOLE 1	319084.261	
722144.132	4294184.258	6160	01-Jul-15	BRIDGETON BOREHOLE 1	319085.185	
722143.875	4294184.451	6220	01-Jul-15	BRIDGETON BOREHOLE 1	319086.107	
722143.29	4294184.528	5872	01-Jul-15	BRIDGETON BOREHOLE 1	319087.187	
722142.661	4294184.498	6025	01-Jul-15	BRIDGETON BOREHOLE 1	319088.342	
722142.176	4294184.398	7434	01-Jul-15	BRIDGETON BOREHOLE 1	319089.433	
722141.903	4294184.298	8338	01-Jul-15	BRIDGETON BOREHOLE 1	319090.18	
722141.601	4294184.126	7964	01-Jul-15	BRIDGETON BOREHOLE 1	319091.196	
722141.365	4294183.973	8981	01-Jul-15	BRIDGETON BOREHOLE 1	319092.343	
722141.184	4294183.945	8755	01-Jul-15	BRIDGETON BOREHOLE 1	319093.347	
722141.185	4294184.042	9358	01-Jul-15	BRIDGETON BOREHOLE 1	319094.211	
722141.303	4294184.332	9479	01-Jul-15	BRIDGETON BOREHOLE 1	319095.268	
722141.325	4294184.592	8160	01-Jul-15	BRIDGETON BOREHOLE 1	319096.094	
722141.347	4294184.681	7890	01-Jul-15	BRIDGETON BOREHOLE 1	319097.143	
722141.726	4294184.671	8152	01-Jul-15	BRIDGETON BOREHOLE 1	319098.279	
722142.331	4294184.812	7948	01-Jul-15	BRIDGETON BOREHOLE 1	319099.286	
722142.784	4294185.081	7867	01-Jul-15	BRIDGETON BOREHOLE 1	319100.132	
722143.112	4294185.167	6556	01-Jul-15	BRIDGETON BOREHOLE 1	319101.341	
722143.246	4294185.092	7069	01-Jul-15	BRIDGETON BOREHOLE 1	319102.163	
722143.213	4294185.007	7887	01-Jul-15	BRIDGETON BOREHOLE 1	319103.26	
722143.243	4294184.971	7102	01-Jul-15	BRIDGETON BOREHOLE 1	319104.085	
722144.043	4294185.076	6665	01-Jul-15	BRIDGETON BOREHOLE 1	319105.251	
722144.711	4294185.35	6286	01-Jul-15	BRIDGETON BOREHOLE 1	319106.138	
722145.345	4294185.793	6071	01-Jul-15	BRIDGETON BOREHOLE 1	319107.286	
722145.782	4294186.106	7188	01-Jul-15	BRIDGETON BOREHOLE 1	319108.195	
722146.26	4294186.375	5997	01-Jul-15	BRIDGETON BOREHOLE 1	319109.203	
722146.862	4294186.723	5594	01-Jul-15	BRIDGETON BOREHOLE 1	319110.242	
722147.584	4294187.007	5756	01-Jul-15	BRIDGETON BOREHOLE 1	319111.341	
722148.204	4294187.211	5780	01-Jul-15	BRIDGETON BOREHOLE 1	319112.169	
722148.993	4294187.494	5816	01-Jul-15	BRIDGETON BOREHOLE 1	319113.269	
722149.665	4294187.839	5676	01-Jul-15	BRIDGETON BOREHOLE 1	319114.249	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722150.347	4294188.164	5555	01-Jul-15	BRIDGETON BOREHOLE 1	319115.137	
722150.8	4294188.604	5142	01-Jul-15	BRIDGETON BOREHOLE 1	319116.255	
722151.413	4294189.058	5187	01-Jul-15	BRIDGETON BOREHOLE 1	319117.329	
722152.058	4294189.444	5828	01-Jul-15	BRIDGETON BOREHOLE 1	319118.201	
722152.521	4294189.837	5955	01-Jul-15	BRIDGETON BOREHOLE 1	319119.102	
722153.207	4294190.301	5847	01-Jul-15	BRIDGETON BOREHOLE 1	319120.214	
722153.951	4294190.679	5869	01-Jul-15	BRIDGETON BOREHOLE 1	319121.366	
722154.409	4294190.993	5881	01-Jul-15	BRIDGETON BOREHOLE 1	319122.237	
722154.974	4294191.265	5715	01-Jul-15	BRIDGETON BOREHOLE 1	319123.17	
722155.476	4294191.571	5638	01-Jul-15	BRIDGETON BOREHOLE 1	319124.091	
722156.275	4294192.054	5601	01-Jul-15	BRIDGETON BOREHOLE 1	319125.203	
722157.059	4294192.42	5828	01-Jul-15	BRIDGETON BOREHOLE 1	319126.297	
722157.558	4294192.373	6368	01-Jul-15	BRIDGETON BOREHOLE 1	319127.427	
722157.71	4294191.923	6152	01-Jul-15	BRIDGETON BOREHOLE 1	319128.295	
722157.794	4294191.541	6338	01-Jul-15	BRIDGETON BOREHOLE 1	319129.403	
722157.751	4294191.29	5391	01-Jul-15	BRIDGETON BOREHOLE 1	319130.088	
722157.21	4294190.847	5493	01-Jul-15	BRIDGETON BOREHOLE 1	319131.287	
722156.692	4294190.5	5324	01-Jul-15	BRIDGETON BOREHOLE 1	319132.19	
722156.018	4294190.181	5605	01-Jul-15	BRIDGETON BOREHOLE 1	319133.342	
722155.522	4294189.929	5935	01-Jul-15	BRIDGETON BOREHOLE 1	319134.166	
722154.703	4294189.572	6008	01-Jul-15	BRIDGETON BOREHOLE 1	319135.319	
722154.229	4294189.336	5427	01-Jul-15	BRIDGETON BOREHOLE 1	319136.021	
722153.08	4294188.791	5745	01-Jul-15	BRIDGETON BOREHOLE 1	319137.504	
722152.585	4294188.632	5556	01-Jul-15	BRIDGETON BOREHOLE 1	319138.254	
722151.934	4294188.471	5803	01-Jul-15	BRIDGETON BOREHOLE 1	319139.225	
722151.324	4294188.333	6121	01-Jul-15	BRIDGETON BOREHOLE 1	319140.057	
722150.451	4294187.898	5820	01-Jul-15	BRIDGETON BOREHOLE 1	319141.232	
722149.769	4294187.52	5651	01-Jul-15	BRIDGETON BOREHOLE 1	319142.116	
722149.001	4294187.081	5421	01-Jul-15	BRIDGETON BOREHOLE 1	319143.225	
722148.406	4294186.862	5344	01-Jul-15	BRIDGETON BOREHOLE 1	319144.104	
722147.494	4294186.608	5414	01-Jul-15	BRIDGETON BOREHOLE 1	319145.357	
722147.002	4294186.578	5272	01-Jul-15	BRIDGETON BOREHOLE 1	319146.234	
722146.263	4294186.423	5553	01-Jul-15	BRIDGETON BOREHOLE 1	319147.355	
722145.719	4294186.18	5958	01-Jul-15	BRIDGETON BOREHOLE 1	319148.22	
722145.014	4294185.833	5714	01-Jul-15	BRIDGETON BOREHOLE 1	319149.385	
722144.452	4294185.547	6071	01-Jul-15	BRIDGETON BOREHOLE 1	319150.23	
722143.735	4294185.18	6468	01-Jul-15	BRIDGETON BOREHOLE 1	319151.346	
722143.312	4294184.899	6447	01-Jul-15	BRIDGETON BOREHOLE 1	319152.156	
722142.842	4294184.66	7761	01-Jul-15	BRIDGETON BOREHOLE 1	319153.286	
722142.525	4294184.547	8060	01-Jul-15	BRIDGETON BOREHOLE 1	319154.111	
722142.161	4294184.437	7565	01-Jul-15	BRIDGETON BOREHOLE 1	319155.235	
722141.787	4294184.192	7141	01-Jul-15	BRIDGETON BOREHOLE 1	319156.393	
722141.388	4294184.008	8505	01-Jul-15	BRIDGETON BOREHOLE 1	319157.369	
722141.099	4294183.949	8426	01-Jul-15	BRIDGETON BOREHOLE 1	319158.224	
722140.565	4294184.063	8556	01-Jul-15	BRIDGETON BOREHOLE 1	319159.454	
722140.282	4294184.205	8019	01-Jul-15	BRIDGETON BOREHOLE 1	319160.187	
722140.053	4294184.357	7284	01-Jul-15	BRIDGETON BOREHOLE 1	319161.292	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722139.987	4294184.568	5781	01-Jul-15	BRIDGETON BOREHOLE 1	319162.156	
722140.261	4294184.628	6386	01-Jul-15	BRIDGETON BOREHOLE 1	319163.268	
722140.357	4294184.692	6415	01-Jul-15	BRIDGETON BOREHOLE 1	319164.188	
722140.284	4294184.844	6613	01-Jul-15	BRIDGETON BOREHOLE 1	319165.182	
722140.2	4294185.014	7053	01-Jul-15	BRIDGETON BOREHOLE 1	319166.352	
722140.052	4294185.316	7613	01-Jul-15	BRIDGETON BOREHOLE 1	319167.335	
722139.94	4294185.766	7063	01-Jul-15	BRIDGETON BOREHOLE 1	319168.229	
722140.019	4294186.305	6626	01-Jul-15	BRIDGETON BOREHOLE 1	319169.27	
722140.418	4294186.832	5544	01-Jul-15	BRIDGETON BOREHOLE 1	319170.345	
722140.823	4294187.214	5774	01-Jul-15	BRIDGETON BOREHOLE 1	319171.192	
722141.308	4294187.454	6067	01-Jul-15	BRIDGETON BOREHOLE 1	319172.036	
722142.03	4294187.761	6677	01-Jul-15	BRIDGETON BOREHOLE 1	319173.116	
722142.643	4294188.047	6529	01-Jul-15	BRIDGETON BOREHOLE 1	319174.139	
722143.287	4294188.402	6372	01-Jul-15	BRIDGETON BOREHOLE 1	319175.31	
722143.653	4294188.543	6169	01-Jul-15	BRIDGETON BOREHOLE 1	319176.177	
722144.306	4294188.739	5922	01-Jul-15	BRIDGETON BOREHOLE 1	319177.259	
722144.843	4294188.853	5460	01-Jul-15	BRIDGETON BOREHOLE 1	319178.041	
722145.598	4294189.19	5471	01-Jul-15	BRIDGETON BOREHOLE 1	319179.13	
722146.096	4294189.565	6062	01-Jul-15	BRIDGETON BOREHOLE 1	319180.251	
722146.604	4294189.907	5925	01-Jul-15	BRIDGETON BOREHOLE 1	319181.34	
722146.977	4294190.225	5860	01-Jul-15	BRIDGETON BOREHOLE 1	319182.15	
722147.492	4294190.59	5711	01-Jul-15	BRIDGETON BOREHOLE 1	319183.261	
722147.951	4294190.881	5792	01-Jul-15	BRIDGETON BOREHOLE 1	319184.136	
722148.479	4294191.031	5748	01-Jul-15	BRIDGETON BOREHOLE 1	319185.036	
722149.293	4294191.328	5686	01-Jul-15	BRIDGETON BOREHOLE 1	319186.157	
722149.933	4294191.573	6281	01-Jul-15	BRIDGETON BOREHOLE 1	319187.191	
722150.929	4294191.831	5740	01-Jul-15	BRIDGETON BOREHOLE 1	319188.14	
722151.817	4294192.122	5613	01-Jul-15	BRIDGETON BOREHOLE 1	319189.258	
722152.635	4294192.393	5602	01-Jul-15	BRIDGETON BOREHOLE 1	319190.236	
722153.467	4294192.681	5379	01-Jul-15	BRIDGETON BOREHOLE 1	319191.308	
722153.943	4294192.861	5335	01-Jul-15	BRIDGETON BOREHOLE 1	319192.2	
722154.67	4294193.122	5341	01-Jul-15	BRIDGETON BOREHOLE 1	319193.34	
722155.338	4294193.321	5382	01-Jul-15	BRIDGETON BOREHOLE 1	319194.162	
722156.072	4294193.774	5037	01-Jul-15	BRIDGETON BOREHOLE 1	319195.275	
722156.151	4294193.89	5878	01-Jul-15	BRIDGETON BOREHOLE 1	319196.129	
722156.191	4294193.79	5669	01-Jul-15	BRIDGETON BOREHOLE 1	319197.285	
722156.149	4294193.738	5176	01-Jul-15	BRIDGETON BOREHOLE 1	319198.134	
722155.975	4294193.787	5439	01-Jul-15	BRIDGETON BOREHOLE 1	319199.25	
722155.843	4294193.798	5804	01-Jul-15	BRIDGETON BOREHOLE 1	319200.145	
722155.805	4294193.76	5732	01-Jul-15	BRIDGETON BOREHOLE 1	319201.005	
722023.446	4294291.775	4201	07-Jul-15	BRIDGETON BOREHOLE 3	241583.755	
722023.905	4294287.442	4289	07-Jul-15	BRIDGETON BOREHOLE 3	241207.204	
722023.291	4294291.65	4308	07-Jul-15	BRIDGETON BOREHOLE 3	241583.105	
722024.376	4294287.377	4347	07-Jul-15	BRIDGETON BOREHOLE 3	241208.264	
722018.211	4294283.679	4377	07-Jul-15	BRIDGETON BOREHOLE 3	240927.338	
722017.94	4294292.399	4381	07-Jul-15	BRIDGETON BOREHOLE 3	241694.992	
722026.174	4294286.44	4385	07-Jul-15	BRIDGETON BOREHOLE 3	241212.142	

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722018.251	4294283.678	4395	07-Jul-15	BRIDGETON BOREHOLE 3	240926.455	
722018.47	4294283.398	4438	07-Jul-15	BRIDGETON BOREHOLE 3	240911.308	
722017.324	4294295.106	4441	07-Jul-15	BRIDGETON BOREHOLE 3	241721.926	
722018.47	4294283.389	4476	07-Jul-15	BRIDGETON BOREHOLE 3	240912.257	
722018.504	4294283.415	4511	07-Jul-15	BRIDGETON BOREHOLE 3	240919.316	
722024.832	4294287.242	4515	07-Jul-15	BRIDGETON BOREHOLE 3	241209.139	
722023.039	4294291.322	4540	07-Jul-15	BRIDGETON BOREHOLE 3	241582.1	
722023.371	4294287.575	4559	07-Jul-15	BRIDGETON BOREHOLE 3	241206.154	
722018.153	4294283.627	4570	07-Jul-15	BRIDGETON BOREHOLE 3	240928.187	
722025.686	4294286.726	4583	07-Jul-15	BRIDGETON BOREHOLE 3	241211.201	
722019.957	4294293.784	4587	07-Jul-15	BRIDGETON BOREHOLE 3	241673.891	
722017.297	4294294.73	4601	07-Jul-15	BRIDGETON BOREHOLE 3	241721.155	
722017.536	4294291.216	4615	07-Jul-15	BRIDGETON BOREHOLE 3	241697.121	
722021.612	4294289.245	4616	07-Jul-15	BRIDGETON BOREHOLE 3	241617.057	
722019.356	4294292.693	4616	07-Jul-15	BRIDGETON BOREHOLE 3	241670.911	
722021.928	4294290.939	4635	07-Jul-15	BRIDGETON BOREHOLE 3	241881.796	
722020.2	4294294.319	4650	07-Jul-15	BRIDGETON BOREHOLE 3	241675.105	
722021.149	4294291.106	4667	07-Jul-15	BRIDGETON BOREHOLE 3	241880.859	
722018.47	4294283.389	4670	07-Jul-15	BRIDGETON BOREHOLE 3	240913.391	
722026.85	4294286.064	4679	07-Jul-15	BRIDGETON BOREHOLE 3	241213.293	
722019.535	4294293.074	4704	07-Jul-15	BRIDGETON BOREHOLE 3	241672.103	
722018.482	4294283.414	4713	07-Jul-15	BRIDGETON BOREHOLE 3	240920.167	
722026.08	4294286.579	4713	07-Jul-15	BRIDGETON BOREHOLE 3	241467.337	
722014.107	4294289.714	4713	07-Jul-15	BRIDGETON BOREHOLE 3	241771.104	
722019.714	4294293.38	4716	07-Jul-15	BRIDGETON BOREHOLE 3	241673.097	
722023.901	4294292.205	4718	07-Jul-15	BRIDGETON BOREHOLE 3	241585.099	
722021.506	4294288.895	4726	07-Jul-15	BRIDGETON BOREHOLE 3	241618.063	
722018.587	4294283.397	4729	07-Jul-15	BRIDGETON BOREHOLE 3	240917.248	
722017.475	4294290.861	4741	07-Jul-15	BRIDGETON BOREHOLE 3	241697.901	
722017.761	4294291.828	4752	07-Jul-15	BRIDGETON BOREHOLE 3	241696.111	
722016.795	4294292.956	4755	07-Jul-15	BRIDGETON BOREHOLE 3	241717.876	
722022.539	4294287.968	4756	07-Jul-15	BRIDGETON BOREHOLE 3	241572.002	
722025.555	4294286.496	4766	07-Jul-15	BRIDGETON BOREHOLE 3	241466.135	
722021.258	4294288.597	4766	07-Jul-15	BRIDGETON BOREHOLE 3	241619.098	
722018.552	4294283.41	4767	07-Jul-15	BRIDGETON BOREHOLE 3	240918.154	
722018.985	4294289.264	4772	07-Jul-15	BRIDGETON BOREHOLE 3	241662.089	
722025.259	4294287	4775	07-Jul-15	BRIDGETON BOREHOLE 3	241210.038	
722026.365	4294287.396	4776	07-Jul-15	BRIDGETON BOREHOLE 3	241469.202	
722017.015	4294293.64	4789	07-Jul-15	BRIDGETON BOREHOLE 3	241719.184	
722018.282	4294283.625	4801	07-Jul-15	BRIDGETON BOREHOLE 3	240925.381	
722020.918	4294288.494	4803	07-Jul-15	BRIDGETON BOREHOLE 3	241619.899	
722023.516	4294287.574	4804	07-Jul-15	BRIDGETON BOREHOLE 3	241527.326	
722026.224	4294286.918	4811	07-Jul-15	BRIDGETON BOREHOLE 3	241468.143	
722022.081	4294287.983	4815	07-Jul-15	BRIDGETON BOREHOLE 3	241203.245	
722018.711	4294289.455	4822	07-Jul-15	BRIDGETON BOREHOLE 3	241663.223	
722018.489	4294283.38	4823	07-Jul-15	BRIDGETON BOREHOLE 3	240910.225	
722019.954	4294289.882	4828	07-Jul-15	BRIDGETON BOREHOLE 3	241659.81	

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722020.119	4294291.475	4831	07-Jul-15	BRIDGETON BOREHOLE 3	241879.628	
722022.38	4294288.979	4834	07-Jul-15	BRIDGETON BOREHOLE 3	241577.06	
722026.342	4294288.363	4845	07-Jul-15	BRIDGETON BOREHOLE 3	241058.294	
722017.525	4294295.675	4853	07-Jul-15	BRIDGETON BOREHOLE 3	241723.02	
722023.764	4294290.752	4862	07-Jul-15	BRIDGETON BOREHOLE 3	241566.04	
722022.623	4294290.319	4864	07-Jul-15	BRIDGETON BOREHOLE 3	241579.854	
722021.563	4294288.137	4867	07-Jul-15	BRIDGETON BOREHOLE 3	241202.107	
722021.944	4294290.071	4895	07-Jul-15	BRIDGETON BOREHOLE 3	241615.041	
722018.13	4294292.982	4896	07-Jul-15	BRIDGETON BOREHOLE 3	241693.79	
722022.955	4294287.683	4904	07-Jul-15	BRIDGETON BOREHOLE 3	241205.094	
722014.931	4294295.421	4904	07-Jul-15	BRIDGETON BOREHOLE 3	241786.971	
722022.537	4294287.843	4906	07-Jul-15	BRIDGETON BOREHOLE 3	241204.206	
722022.184	4294288.131	4911	07-Jul-15	BRIDGETON BOREHOLE 3	241575.082	
722020.885	4294288.663	4914	07-Jul-15	BRIDGETON BOREHOLE 3	241620.903	
722025.624	4294289.47	4918	07-Jul-15	BRIDGETON BOREHOLE 3	241009.399	
722026.466	4294288.22	4923	07-Jul-15	BRIDGETON BOREHOLE 3	241059.46	
722023.591	4294287.887	4930	07-Jul-15	BRIDGETON BOREHOLE 3	241528.156	
722018.505	4294283.366	4934	07-Jul-15	BRIDGETON BOREHOLE 3	240909.345	
722019.157	4294292.464	4939	07-Jul-15	BRIDGETON BOREHOLE 3	241670.042	
722020.186	4294290.29	4943	07-Jul-15	BRIDGETON BOREHOLE 3	241659.04	
722016.656	4294292.151	4946	07-Jul-15	BRIDGETON BOREHOLE 3	241715.951	
722020.558	4294295.007	4948	07-Jul-15	BRIDGETON BOREHOLE 3	241676.958	
722018.865	4294291.652	4961	07-Jul-15	BRIDGETON BOREHOLE 3	241668.247	
722023.763	4294287.282	4966	07-Jul-15	BRIDGETON BOREHOLE 3	241525.05	
722021.833	4294289.802	4966	07-Jul-15	BRIDGETON BOREHOLE 3	241615.821	
722023.814	4294288.41	4970	07-Jul-15	BRIDGETON BOREHOLE 3	241529.2	
722020.367	4294294.751	4971	07-Jul-15	BRIDGETON BOREHOLE 3	241676.203	
722016.728	4294292.571	4987	07-Jul-15	BRIDGETON BOREHOLE 3	241717.04	
722023.483	4294290.313	4989	07-Jul-15	BRIDGETON BOREHOLE 3	241883.802	
722025.858	4294288.741	4993	07-Jul-15	BRIDGETON BOREHOLE 3	241481.1	
722025.644	4294289.448	4994	07-Jul-15	BRIDGETON BOREHOLE 3	241010.254	
722024.466	4294293.257	5002	07-Jul-15	BRIDGETON BOREHOLE 3	241588.097	
722018.561	4294289.726	5014	07-Jul-15	BRIDGETON BOREHOLE 3	241664.014	
722019.65	4294291.708	5028	07-Jul-15	BRIDGETON BOREHOLE 3	241878.97	
722022.783	4294290.837	5031	07-Jul-15	BRIDGETON BOREHOLE 3	241580.975	
722018.552	4294283.393	5034	07-Jul-15	BRIDGETON BOREHOLE 3	240916.304	
722020.864	4294292.568	5035	07-Jul-15	BRIDGETON BOREHOLE 3	241654.042	
722017.745	4294296.223	5040	07-Jul-15	BRIDGETON BOREHOLE 3	241724.082	
722024.132	4294292.452	5046	07-Jul-15	BRIDGETON BOREHOLE 3	241586.101	
722018.999	4294292.075	5048	07-Jul-15	BRIDGETON BOREHOLE 3	241669.045	
722027.129	4294287.963	5050	07-Jul-15	BRIDGETON BOREHOLE 3	241471.041	
722022.484	4294289.324	5052	07-Jul-15	BRIDGETON BOREHOLE 3	241577.818	
722016.058	4294289.118	5055	07-Jul-15	BRIDGETON BOREHOLE 3	241705.038	
722022.921	4294293.113	5056	07-Jul-15	BRIDGETON BOREHOLE 3	241607.988	
722016.012	4294289.798	5058	07-Jul-15	BRIDGETON BOREHOLE 3	241707.108	
722017.261	4294290.399	5059	07-Jul-15	BRIDGETON BOREHOLE 3	241699.103	
722023.941	4294288.821	5061	07-Jul-15	BRIDGETON BOREHOLE 3	241530.109	

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722022.596	4294290.035	5061	07-Jul-15	BRIDGETON BOREHOLE 3	241579.065	
722019.373	4294289.449	5070	07-Jul-15	BRIDGETON BOREHOLE 3	241661.041	
722024.026	4294287.561	5075	07-Jul-15	BRIDGETON BOREHOLE 3	241523.239	
722021.636	4294291.758	5078	07-Jul-15	BRIDGETON BOREHOLE 3	241628.034	
722023.938	4294287.311	5082	07-Jul-15	BRIDGETON BOREHOLE 3	241524.042	
722018.709	4294291.013	5086	07-Jul-15	BRIDGETON BOREHOLE 3	241666.932	
722026.083	4294289.352	5103	07-Jul-15	BRIDGETON BOREHOLE 3	241039.056	
722024.157	4294288.127	5103	07-Jul-15	BRIDGETON BOREHOLE 3	241522.095	
722026.785	4294287.633	5124	07-Jul-15	BRIDGETON BOREHOLE 3	241470.003	
722025.079	4294286.693	5127	07-Jul-15	BRIDGETON BOREHOLE 3	241465.206	
722016.613	4294289.051	5134	07-Jul-15	BRIDGETON BOREHOLE 3	241701.855	
722018.616	4294290.722	5135	07-Jul-15	BRIDGETON BOREHOLE 3	241666.11	
722014.994	4294292.418	5135	07-Jul-15	BRIDGETON BOREHOLE 3	241764.217	
722018.487	4294283.39	5136	07-Jul-15	BRIDGETON BOREHOLE 3	240915.17	
722021.029	4294292.933	5138	07-Jul-15	BRIDGETON BOREHOLE 3	241653.182	
722025.826	4294289.125	5140	07-Jul-15	BRIDGETON BOREHOLE 3	241046.099	
722023.586	4294287.308	5141	07-Jul-15	BRIDGETON BOREHOLE 3	241525.866	
722026.64	4294288.252	5146	07-Jul-15	BRIDGETON BOREHOLE 3	241060.297	
722022.883	4294288.425	5148	07-Jul-15	BRIDGETON BOREHOLE 3	241571.082	
722022.917	4294290.498	5149	07-Jul-15	BRIDGETON BOREHOLE 3	241883.043	
722015.666	4294294.516	5153	07-Jul-15	BRIDGETON BOREHOLE 3	241759.87	
722024.947	4294287.2	5154	07-Jul-15	BRIDGETON BOREHOLE 3	241464.091	
722017.114	4294294.106	5154	07-Jul-15	BRIDGETON BOREHOLE 3	241720.097	
722022.175	4294288.539	5155	07-Jul-15	BRIDGETON BOREHOLE 3	241576.003	
722031.634	4294283.292	5158	07-Jul-15	BRIDGETON BOREHOLE 3	241239.225	
722018.433	4294283.451	5160	07-Jul-15	BRIDGETON BOREHOLE 3	240923.099	
722018.466	4294283.423	5163	07-Jul-15	BRIDGETON BOREHOLE 3	240921.394	
722013.991	4294290.174	5164	07-Jul-15	BRIDGETON BOREHOLE 3	241774.843	
722020.517	4294291.251	5166	07-Jul-15	BRIDGETON BOREHOLE 3	241656.896	
722026.154	4294289.461	5170	07-Jul-15	BRIDGETON BOREHOLE 3	241483.1	
722020.857	4294288.345	5173	07-Jul-15	BRIDGETON BOREHOLE 3	241201.031	
722022.622	4294291.831	5174	07-Jul-15	BRIDGETON BOREHOLE 3	241611.04	
722031.522	4294283.184	5175	07-Jul-15	BRIDGETON BOREHOLE 3	241253.098	
722024.281	4294290.03	5176	07-Jul-15	BRIDGETON BOREHOLE 3	241884.837	
722015.27	4294293.482	5180	07-Jul-15	BRIDGETON BOREHOLE 3	241761.76	
722025.979	4294288.856	5183	07-Jul-15	BRIDGETON BOREHOLE 3	241049.345	
722031.543	4294283.223	5183	07-Jul-15	BRIDGETON BOREHOLE 3	241254.213	
722018.474	4294283.389	5184	07-Jul-15	BRIDGETON BOREHOLE 3	240914.247	
722025.849	4294287.345	5184	07-Jul-15	BRIDGETON BOREHOLE 3	241475.092	
722018.522	4294283.36	5186	07-Jul-15	BRIDGETON BOREHOLE 3	240908.461	
722028.209	4294285.456	5186	07-Jul-15	BRIDGETON BOREHOLE 3	241215.093	
722024.029	4294291.528	5188	07-Jul-15	BRIDGETON BOREHOLE 3	241564.065	
722022.931	4294293.817	5190	07-Jul-15	BRIDGETON BOREHOLE 3	241633.036	
722016.418	4294288.852	5190	07-Jul-15	BRIDGETON BOREHOLE 3	241703.002	
722018.804	4294294.867	5194	07-Jul-15	BRIDGETON BOREHOLE 3	241690.148	
722020.537	4294291.637	5197	07-Jul-15	BRIDGETON BOREHOLE 3	241656.098	
722016.512	4294289.445	5198	07-Jul-15	BRIDGETON BOREHOLE 3	241194.099	

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722025.439	4294287.587	5201	07-Jul-15	BRIDGETON BOREHOLE 3	241478.009	
722020.356	4294290.837	5201	07-Jul-15	BRIDGETON BOREHOLE 3	241657.852	
722015.779	4294294.767	5201	07-Jul-15	BRIDGETON BOREHOLE 3	241759.099	
722024.466	4294290.033	5203	07-Jul-15	BRIDGETON BOREHOLE 3	241532.973	
722013.957	4294289.825	5208	07-Jul-15	BRIDGETON BOREHOLE 3	241774.013	
722015.187	4294292.887	5209	07-Jul-15	BRIDGETON BOREHOLE 3	241763.065	
722020.937	4294289.782	5214	07-Jul-15	BRIDGETON BOREHOLE 3	241624.036	
722028.827	4294285.092	5219	07-Jul-15	BRIDGETON BOREHOLE 3	241216.12	
722017.46	4294292.459	5221	07-Jul-15	BRIDGETON BOREHOLE 3	241875.85	
722018.413	4294289.104	5226	07-Jul-15	BRIDGETON BOREHOLE 3	241197.393	
722017.074	4294290.066	5231	07-Jul-15	BRIDGETON BOREHOLE 3	241699.89	
722025.587	4294289.512	5238	07-Jul-15	BRIDGETON BOREHOLE 3	241008.196	
722024.101	4294289.27	5239	07-Jul-15	BRIDGETON BOREHOLE 3	241531.112	
722023.621	4294290.282	5239	07-Jul-15	BRIDGETON BOREHOLE 3	241567.121	
722019.514	4294288.837	5242	07-Jul-15	BRIDGETON BOREHOLE 3	241199.211	
722020.838	4294289.374	5242	07-Jul-15	BRIDGETON BOREHOLE 3	241623.194	
722023.892	4294291.134	5243	07-Jul-15	BRIDGETON BOREHOLE 3	241565.235	
722024.622	4294290.334	5251	07-Jul-15	BRIDGETON BOREHOLE 3	241533.889	
722022.172	4294287.934	5251	07-Jul-15	BRIDGETON BOREHOLE 3	241574.013	
722022.293	4294287.874	5255	07-Jul-15	BRIDGETON BOREHOLE 3	241573.257	
722022.095	4294290.494	5263	07-Jul-15	BRIDGETON BOREHOLE 3	241614.054	
722024.131	4294291.884	5264	07-Jul-15	BRIDGETON BOREHOLE 3	241563.206	
722025.564	4294289.547	5271	07-Jul-15	BRIDGETON BOREHOLE 3	241007.273	
722018.391	4294294.003	5275	07-Jul-15	BRIDGETON BOREHOLE 3	241691.986	
722022.371	4294292.984	5276	07-Jul-15	BRIDGETON BOREHOLE 3	241631.041	
722018.299	4294293.524	5277	07-Jul-15	BRIDGETON BOREHOLE 3	241692.816	
722021.869	4294292.26	5279	07-Jul-15	BRIDGETON BOREHOLE 3	241629.139	
722018.908	4294289.014	5280	07-Jul-15	BRIDGETON BOREHOLE 3	241198.191	
722025.785	4294289.27	5285	07-Jul-15	BRIDGETON BOREHOLE 3	241045.363	
722026.157	4294288.692	5290	07-Jul-15	BRIDGETON BOREHOLE 3	241053.187	
722024.956	4294290.309	5295	07-Jul-15	BRIDGETON BOREHOLE 3	241517.061	
722016.688	4294291.958	5299	07-Jul-15	BRIDGETON BOREHOLE 3	241715.149	
722027.283	4294287.738	5301	07-Jul-15	BRIDGETON BOREHOLE 3	241064.354	
722025.608	4294288.894	5304	07-Jul-15	BRIDGETON BOREHOLE 3	241460.147	
722020.856	4294288.782	5306	07-Jul-15	BRIDGETON BOREHOLE 3	241621.727	
722018.945	4294292.064	5313	07-Jul-15	BRIDGETON BOREHOLE 3	241877.825	
722021.289	4294291.17	5321	07-Jul-15	BRIDGETON BOREHOLE 3	241626.936	
722026.078	4294289.28	5322	07-Jul-15	BRIDGETON BOREHOLE 3	241033.336	
722016.756	4294289.53	5327	07-Jul-15	BRIDGETON BOREHOLE 3	241701.042	
722014.618	4294294.189	5328	07-Jul-15	BRIDGETON BOREHOLE 3	241784.114	
722014.771	4294294.964	5332	07-Jul-15	BRIDGETON BOREHOLE 3	241785.912	
722016.244	4294288.912	5334	07-Jul-15	BRIDGETON BOREHOLE 3	241703.858	
722015.485	4294294.018	5343	07-Jul-15	BRIDGETON BOREHOLE 3	241760.92	
722017.546	4294289.27	5344	07-Jul-15	BRIDGETON BOREHOLE 3	241196.043	
722022.38	4294291.408	5348	07-Jul-15	BRIDGETON BOREHOLE 3	241612.153	
722026.106	4294288.599	5350	07-Jul-15	BRIDGETON BOREHOLE 3	241055.262	
722025.988	4294289.069	5351	07-Jul-15	BRIDGETON BOREHOLE 3	241481.879	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722025.625	4294289.444	5359	07-Jul-15	BRIDGETON BOREHOLE 3	241011.309	
722020.719	4294292.098	5359	07-Jul-15	BRIDGETON BOREHOLE 3	241655.101	
722026.33	4294288.491	5361	07-Jul-15	BRIDGETON BOREHOLE 3	241057.459	
722018.339	4294283.548	5362	07-Jul-15	BRIDGETON BOREHOLE 3	240924.241	
722018.532	4294283.359	5366	07-Jul-15	BRIDGETON BOREHOLE 3	240907.15	
722024.362	4294288.636	5366	07-Jul-15	BRIDGETON BOREHOLE 3	241521.268	
722024.255	4294289.596	5369	07-Jul-15	BRIDGETON BOREHOLE 3	241531.912	
722031.667	4294283.21	5375	07-Jul-15	BRIDGETON BOREHOLE 3	241246.238	
722025.864	4294289.394	5376	07-Jul-15	BRIDGETON BOREHOLE 3	241459.104	
722031.529	4294283.388	5385	07-Jul-15	BRIDGETON BOREHOLE 3	241236.192	
722027.55	4294285.46	5388	07-Jul-15	BRIDGETON BOREHOLE 3	241409.845	
722024.675	4294289.879	5393	07-Jul-15	BRIDGETON BOREHOLE 3	241518.189	
722016.697	4294291.207	5393	07-Jul-15	BRIDGETON BOREHOLE 3	241710.064	
722026.169	4294289.907	5397	07-Jul-15	BRIDGETON BOREHOLE 3	241458.002	
722031.687	4294283.242	5399	07-Jul-15	BRIDGETON BOREHOLE 3	241240.096	
722024.678	4294293.696	5408	07-Jul-15	BRIDGETON BOREHOLE 3	241589.109	
722025.548	4294289.534	5416	07-Jul-15	BRIDGETON BOREHOLE 3	241017.355	
722021.169	4294290.735	5419	07-Jul-15	BRIDGETON BOREHOLE 3	241625.983	
722014.953	4294292.162	5423	07-Jul-15	BRIDGETON BOREHOLE 3	241764.992	
722026.279	4294288.636	5424	07-Jul-15	BRIDGETON BOREHOLE 3	241056.291	
722024.241	4294292.433	5425	07-Jul-15	BRIDGETON BOREHOLE 3	241561.935	
722024.413	4294292.929	5426	07-Jul-15	BRIDGETON BOREHOLE 3	241587.265	
722023.19	4294289.256	5431	07-Jul-15	BRIDGETON BOREHOLE 3	241569.152	
722026.079	4294289.29	5433	07-Jul-15	BRIDGETON BOREHOLE 3	241036.182	
722026.11	4294289.357	5435	07-Jul-15	BRIDGETON BOREHOLE 3	241032.19	
722025.091	4294288.094	5435	07-Jul-15	BRIDGETON BOREHOLE 3	241461.894	
722026.906	4294288.214	5435	07-Jul-15	BRIDGETON BOREHOLE 3	241472.093	
722025.713	4294288.355	5437	07-Jul-15	BRIDGETON BOREHOLE 3	241480.036	
722025.189	4294291.368	5442	07-Jul-15	BRIDGETON BOREHOLE 3	241538.211	
722023.097	4294293.434	5442	07-Jul-15	BRIDGETON BOREHOLE 3	241607.208	
722013.988	4294289.651	5445	07-Jul-15	BRIDGETON BOREHOLE 3	241773.215	
722025.031	4294289.714	5454	07-Jul-15	BRIDGETON BOREHOLE 3	241885.913	
722025.785	4294289.029	5456	07-Jul-15	BRIDGETON BOREHOLE 3	241047.447	
722024.891	4294287.439	5457	07-Jul-15	BRIDGETON BOREHOLE 3	241463.336	
722026.063	4294289.317	5458	07-Jul-15	BRIDGETON BOREHOLE 3	241040.179	
722027.541	4294285.793	5459	07-Jul-15	BRIDGETON BOREHOLE 3	241214.15	
722031.588	4294283.158	5461	07-Jul-15	BRIDGETON BOREHOLE 3	241251.022	
722028.822	4294287.15	5461	07-Jul-15	BRIDGETON BOREHOLE 3	241890.911	
722025.491	4294289.593	5465	07-Jul-15	BRIDGETON BOREHOLE 3	241006.22	
722016.429	4294290.771	5469	07-Jul-15	BRIDGETON BOREHOLE 3	241709.007	
722016.893	4294292.735	5469	07-Jul-15	BRIDGETON BOREHOLE 3	241875.02	
722014.992	4294291.83	5473	07-Jul-15	BRIDGETON BOREHOLE 3	241765.853	
722027.163	4294286.008	5481	07-Jul-15	BRIDGETON BOREHOLE 3	241414.22	
722016.75	4294291.913	5488	07-Jul-15	BRIDGETON BOREHOLE 3	241713.919	
722025.799	4294289.311	5490	07-Jul-15	BRIDGETON BOREHOLE 3	241887.04	
722031.656	4294283.217	5498	07-Jul-15	BRIDGETON BOREHOLE 3	241243.187	
722022.884	4294292.642	5499	07-Jul-15	BRIDGETON BOREHOLE 3	241609.091	

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722018.462	4294283.425	5507	07-Jul-15	BRIDGETON BOREHOLE 3	240922.036	
722023.089	4294294.117	5507	07-Jul-15	BRIDGETON BOREHOLE 3	241633.818	
722026.001	4294287.531	5510	07-Jul-15	BRIDGETON BOREHOLE 3	241473.982	
722026.144	4294288.628	5511	07-Jul-15	BRIDGETON BOREHOLE 3	241054.343	
722026.018	4294289.275	5513	07-Jul-15	BRIDGETON BOREHOLE 3	241034.186	
722025.729	4294289.483	5532	07-Jul-15	BRIDGETON BOREHOLE 3	241026.14	
722014.762	4294294.646	5532	07-Jul-15	BRIDGETON BOREHOLE 3	241785.158	
722016.013	4294293.044	5537	07-Jul-15	BRIDGETON BOREHOLE 3	241873.678	
722028.014	4294286.845	5538	07-Jul-15	BRIDGETON BOREHOLE 3	241069.214	
722025.674	4294287.347	5538	07-Jul-15	BRIDGETON BOREHOLE 3	241476.079	
722022.298	4294290.911	5543	07-Jul-15	BRIDGETON BOREHOLE 3	241613.269	
722026.015	4294289.325	5545	07-Jul-15	BRIDGETON BOREHOLE 3	241041.311	
722026.068	4294289.37	5547	07-Jul-15	BRIDGETON BOREHOLE 3	241030.249	
722023.529	4294289.968	5550	07-Jul-15	BRIDGETON BOREHOLE 3	241567.925	
722023.121	4294288.924	5553	07-Jul-15	BRIDGETON BOREHOLE 3	241569.953	
722026.388	4294289.872	5555	07-Jul-15	BRIDGETON BOREHOLE 3	241484.212	
722027.249	4294285.64	5557	07-Jul-15	BRIDGETON BOREHOLE 3	241412.259	
722030.817	4294283.925	5561	07-Jul-15	BRIDGETON BOREHOLE 3	241220.107	
722013.947	4294289.618	5561	07-Jul-15	BRIDGETON BOREHOLE 3	241771.887	
722031.592	4294283.201	5563	07-Jul-15	BRIDGETON BOREHOLE 3	241255.068	
722025.668	4294289.331	5566	07-Jul-15	BRIDGETON BOREHOLE 3	241023.264	
722027.428	4294287.403	5569	07-Jul-15	BRIDGETON BOREHOLE 3	241066.098	
722026.332	4294287.838	5570	07-Jul-15	BRIDGETON BOREHOLE 3	241473.216	
722026.151	4294288.719	5579	07-Jul-15	BRIDGETON BOREHOLE 3	241052.042	
722031.692	4294283.193	5581	07-Jul-15	BRIDGETON BOREHOLE 3	241242.092	
722031.604	4294283.361	5586	07-Jul-15	BRIDGETON BOREHOLE 3	241235.243	
722014.446	4294292.143	5591	07-Jul-15	BRIDGETON BOREHOLE 3	241779.115	
722018.178	4294292.238	5592	07-Jul-15	BRIDGETON BOREHOLE 3	241876.78	
722024.501	4294289.147	5594	07-Jul-15	BRIDGETON BOREHOLE 3	241520.122	
722018.515	4294290.115	5595	07-Jul-15	BRIDGETON BOREHOLE 3	241664.842	
722022.59	4294293.368	5600	07-Jul-15	BRIDGETON BOREHOLE 3	241632.122	
722029.755	4294284.376	5603	07-Jul-15	BRIDGETON BOREHOLE 3	241218.091	
722015.059	4294295.786	5608	07-Jul-15	BRIDGETON BOREHOLE 3	241787.692	
722021.247	4294293.307	5614	07-Jul-15	BRIDGETON BOREHOLE 3	241652.096	
722016.046	4294289.274	5618	07-Jul-15	BRIDGETON BOREHOLE 3	241705.854	
722031.511	4294283.196	5619	07-Jul-15	BRIDGETON BOREHOLE 3	241256.218	
722025.561	4294289.5	5623	07-Jul-15	BRIDGETON BOREHOLE 3	241015.097	
722026.603	4294287.917	5623	07-Jul-15	BRIDGETON BOREHOLE 3	241062.178	
722025.721	4294289.456	5624	07-Jul-15	BRIDGETON BOREHOLE 3	241027.347	
722031.615	4294283.356	5625	07-Jul-15	BRIDGETON BOREHOLE 3	241234.189	
722025.267	4294291.63	5626	07-Jul-15	BRIDGETON BOREHOLE 3	241539.026	
722027.39	4294285.505	5626	07-Jul-15	BRIDGETON BOREHOLE 3	241411.101	
722025.295	4294290.86	5627	07-Jul-15	BRIDGETON BOREHOLE 3	241516.035	
722029.348	4294284.69	5628	07-Jul-15	BRIDGETON BOREHOLE 3	241217.212	
722015.61	4294293.144	5630	07-Jul-15	BRIDGETON BOREHOLE 3	241872.988	
722026.959	4294287.903	5638	07-Jul-15	BRIDGETON BOREHOLE 3	241063.242	
722027.223	4294286.384	5648	07-Jul-15	BRIDGETON BOREHOLE 3	241415.259	

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722014.252	4294291.186	5653	07-Jul-15	BRIDGETON BOREHOLE 3	241777.024	
722013.318	4294294.85	5654	07-Jul-15	BRIDGETON BOREHOLE 3	241810.92	
722026.027	4294289.274	5659	07-Jul-15	BRIDGETON BOREHOLE 3	241035.29	
722031.621	4294283.754	5661	07-Jul-15	BRIDGETON BOREHOLE 3	241225.274	
722017.114	4294289.34	5662	07-Jul-15	BRIDGETON BOREHOLE 3	241195.223	
722026.103	4294289.37	5663	07-Jul-15	BRIDGETON BOREHOLE 3	241031.097	
722020.158	4294288.654	5663	07-Jul-15	BRIDGETON BOREHOLE 3	241200.092	
722014.959	4294293.06	5663	07-Jul-15	BRIDGETON BOREHOLE 3	241871.902	
722026.056	4294288.701	5665	07-Jul-15	BRIDGETON BOREHOLE 3	241051.108	
722022.805	4294292.375	5666	07-Jul-15	BRIDGETON BOREHOLE 3	241609.848	
722024.977	4294290.522	5669	07-Jul-15	BRIDGETON BOREHOLE 3	241535.004	
722024.963	4294291.046	5676	07-Jul-15	BRIDGETON BOREHOLE 3	241537.255	
722025.277	4294288.442	5676	07-Jul-15	BRIDGETON BOREHOLE 3	241461.119	
722027.347	4294291.439	5679	07-Jul-15	BRIDGETON BOREHOLE 3	241489.046	
722025.551	4294289.512	5683	07-Jul-15	BRIDGETON BOREHOLE 3	241016.248	
722025.979	4294289.351	5684	07-Jul-15	BRIDGETON BOREHOLE 3	241042.352	
722027.601	4294287.145	5690	07-Jul-15	BRIDGETON BOREHOLE 3	241067.394	
722027.144	4294285.821	5691	07-Jul-15	BRIDGETON BOREHOLE 3	241413.1	
722017.003	4294291.788	5694	07-Jul-15	BRIDGETON BOREHOLE 3	241711.928	
722027.838	4294286.073	5696	07-Jul-15	BRIDGETON BOREHOLE 3	241407.838	
722026.038	4294288.779	5698	07-Jul-15	BRIDGETON BOREHOLE 3	241050.197	
722014.556	4294293.823	5699	07-Jul-15	BRIDGETON BOREHOLE 3	241783.303	
722014.347	4294291.483	5700	07-Jul-15	BRIDGETON BOREHOLE 3	241777.766	
722025.787	4294289.37	5715	07-Jul-15	BRIDGETON BOREHOLE 3	241044.234	
722014.028	4294290.676	5717	07-Jul-15	BRIDGETON BOREHOLE 3	241775.976	
722029.356	4294285.987	5748	07-Jul-15	BRIDGETON BOREHOLE 3	241074.098	
722031.626	4294283.188	5748	07-Jul-15	BRIDGETON BOREHOLE 3	241250.042	
722031.654	4294283.191	5753	07-Jul-15	BRIDGETON BOREHOLE 3	241249.247	
722018.673	4294294.564	5764	07-Jul-15	BRIDGETON BOREHOLE 3	241690.956	
722025.409	4294287.478	5767	07-Jul-15	BRIDGETON BOREHOLE 3	241477.253	
722027.569	4294285.535	5769	07-Jul-15	BRIDGETON BOREHOLE 3	241409.017	
722024.662	4294289.528	5771	07-Jul-15	BRIDGETON BOREHOLE 3	241519.086	
722031.731	4294283.728	5779	07-Jul-15	BRIDGETON BOREHOLE 3	241226.03	
722031.708	4294283.201	5789	07-Jul-15	BRIDGETON BOREHOLE 3	241241.217	
722027.484	4294288.127	5789	07-Jul-15	BRIDGETON BOREHOLE 3	241889.102	
722026.685	4294290.754	5792	07-Jul-15	BRIDGETON BOREHOLE 3	241456.065	
722025.468	4294289.604	5793	07-Jul-15	BRIDGETON BOREHOLE 3	241001.339	
722014.529	4294290.414	5793	07-Jul-15	BRIDGETON BOREHOLE 3	241769.068	
722027.339	4294287.543	5794	07-Jul-15	BRIDGETON BOREHOLE 3	241065.124	
722027.283	4294286.653	5794	07-Jul-15	BRIDGETON BOREHOLE 3	241416.22	
722025.437	4294289.577	5798	07-Jul-15	BRIDGETON BOREHOLE 3	241004.219	
722025.545	4294289.388	5803	07-Jul-15	BRIDGETON BOREHOLE 3	241022.089	
722028.193	4294286.774	5807	07-Jul-15	BRIDGETON BOREHOLE 3	241070.059	
722027.546	4294287.401	5807	07-Jul-15	BRIDGETON BOREHOLE 3	241418.175	
722027.523	4294291.835	5812	07-Jul-15	BRIDGETON BOREHOLE 3	241490.118	
722025.892	4294288.975	5814	07-Jul-15	BRIDGETON BOREHOLE 3	241048.297	
722027.788	4294286.993	5818	07-Jul-15	BRIDGETON BOREHOLE 3	241068.172	

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722022.074	4294292.562	5819	07-Jul-15	BRIDGETON BOREHOLE 3	241629.898	
722026.321	4294288.936	5826	07-Jul-15	BRIDGETON BOREHOLE 3	241887.797	
722031.484	4294283.391	5834	07-Jul-15	BRIDGETON BOREHOLE 3	241237.153	
722014.525	4294292.847	5836	07-Jul-15	BRIDGETON BOREHOLE 3	241780.882	
722026.561	4294290.193	5847	07-Jul-15	BRIDGETON BOREHOLE 3	241485.086	
722026.686	4294288.148	5850	07-Jul-15	BRIDGETON BOREHOLE 3	241061.368	
722031.438	4294283.113	5853	07-Jul-15	BRIDGETON BOREHOLE 3	241257.32	
722020.767	4294295.442	5858	07-Jul-15	BRIDGETON BOREHOLE 3	241677.843	
722035.939	4294282.254	5862	07-Jul-15	BRIDGETON BOREHOLE 3	241909.795	
722025.483	4294289.597	5868	07-Jul-15	BRIDGETON BOREHOLE 3	241003.426	
722025.542	4294289.549	5874	07-Jul-15	BRIDGETON BOREHOLE 3	241018.171	
722031.547	4294283.346	5876	07-Jul-15	BRIDGETON BOREHOLE 3	241238.191	
722031.052	4294283.926	5880	07-Jul-15	BRIDGETON BOREHOLE 3	241221.087	
722025.932	4294289.36	5882	07-Jul-15	BRIDGETON BOREHOLE 3	241043.192	
722016.16	4294290.215	5882	07-Jul-15	BRIDGETON BOREHOLE 3	241707.915	
722025.687	4294289.377	5891	07-Jul-15	BRIDGETON BOREHOLE 3	241024.034	
722025.723	4294289.438	5901	07-Jul-15	BRIDGETON BOREHOLE 3	241025.298	
722026.073	4294289.348	5906	07-Jul-15	BRIDGETON BOREHOLE 3	241037.34	
722014.791	4294291.256	5913	07-Jul-15	BRIDGETON BOREHOLE 3	241767.101	
722025.35	4294289.624	5929	07-Jul-15	BRIDGETON BOREHOLE 3	241000.265	
722014.183	4294290.171	5935	07-Jul-15	BRIDGETON BOREHOLE 3	241190.101	
722031.623	4294283.23	5935	07-Jul-15	BRIDGETON BOREHOLE 3	241245.096	
722026.737	4294290.557	5936	07-Jul-15	BRIDGETON BOREHOLE 3	241485.851	
722016.887	4294291.497	5936	07-Jul-15	BRIDGETON BOREHOLE 3	241711.043	
722028.07	4294287.65	5936	07-Jul-15	BRIDGETON BOREHOLE 3	241889.906	
722029.407	4294286.942	5937	07-Jul-15	BRIDGETON BOREHOLE 3	241891.75	
722025.468	4294287.885	5941	07-Jul-15	BRIDGETON BOREHOLE 3	241478.848	
722037.301	4294283.068	5942	07-Jul-15	BRIDGETON BOREHOLE 3	241091.339	
722031.497	4294283.463	5954	07-Jul-15	BRIDGETON BOREHOLE 3	241232.293	
722015.822	4294295.248	5966	07-Jul-15	BRIDGETON BOREHOLE 3	241758.067	
722031.544	4294283.16	5974	07-Jul-15	BRIDGETON BOREHOLE 3	241252.043	
722025.589	4294289.485	5981	07-Jul-15	BRIDGETON BOREHOLE 3	241014.086	
722031.633	4294283.226	5987	07-Jul-15	BRIDGETON BOREHOLE 3	241244.218	
722029.712	4294285.755	5993	07-Jul-15	BRIDGETON BOREHOLE 3	241075.099	
722025.509	4294292.08	6000	07-Jul-15	BRIDGETON BOREHOLE 3	241540.16	
722027.362	4294286.96	6004	07-Jul-15	BRIDGETON BOREHOLE 3	241417.006	
722020.961	4294290.304	6007	07-Jul-15	BRIDGETON BOREHOLE 3	241625.188	
722021.616	4294294.243	6014	07-Jul-15	BRIDGETON BOREHOLE 3	241649.934	
722031.712	4294283.193	6016	07-Jul-15	BRIDGETON BOREHOLE 3	241247.369	
722026.934	4294291.066	6017	07-Jul-15	BRIDGETON BOREHOLE 3	241455.18	
722025.769	4294289.436	6021	07-Jul-15	BRIDGETON BOREHOLE 3	241028.253	
722031.588	4294283.397	6026	07-Jul-15	BRIDGETON BOREHOLE 3	241233.323	
722028.039	4294286.52	6033	07-Jul-15	BRIDGETON BOREHOLE 3	241407.041	
722027.789	4294287.879	6034	07-Jul-15	BRIDGETON BOREHOLE 3	241419.283	
722013.157	4294294.493	6038	07-Jul-15	BRIDGETON BOREHOLE 3	241811.866	
722013.351	4294295.128	6039	07-Jul-15	BRIDGETON BOREHOLE 3	241810.11	
722014.482	4294292.504	6041	07-Jul-15	BRIDGETON BOREHOLE 3	241779.898	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722014.383	4294289.988	6048	07-Jul-15	BRIDGETON BOREHOLE 3	241769.87	
722025.976	4294289.403	6049	07-Jul-15	BRIDGETON BOREHOLE 3	241029.392	
722031.537	4294282.935	6052	07-Jul-15	BRIDGETON BOREHOLE 3	241258.201	
722024.973	4294290.695	6056	07-Jul-15	BRIDGETON BOREHOLE 3	241536.24	
722031.712	4294283.19	6061	07-Jul-15	BRIDGETON BOREHOLE 3	241248.158	
722037.696	4294282.897	6065	07-Jul-15	BRIDGETON BOREHOLE 3	241092.094	
722025.543	4294289.618	6071	07-Jul-15	BRIDGETON BOREHOLE 3	241002.207	
722026.004	4294293.064	6078	07-Jul-15	BRIDGETON BOREHOLE 3	241542.096	
722025.597	4294289.451	6089	07-Jul-15	BRIDGETON BOREHOLE 3	241012.22	
722015.984	4294289.524	6103	07-Jul-15	BRIDGETON BOREHOLE 3	241193.106	
722013.336	4294296.159	6105	07-Jul-15	BRIDGETON BOREHOLE 3	241830.029	
722023.347	4294294.664	6120	07-Jul-15	BRIDGETON BOREHOLE 3	241635.041	
722036.013	4294283.935	6122	07-Jul-15	BRIDGETON BOREHOLE 3	241948.8571	
722025.447	4294289.619	6141	07-Jul-15	BRIDGETON BOREHOLE 3	241005.342	
722028.469	4294286.594	6154	07-Jul-15	BRIDGETON BOREHOLE 3	241071.243	
722029.98	4294286.866	6156	07-Jul-15	BRIDGETON BOREHOLE 3	241893.105	
722025.62	4294289.469	6172	07-Jul-15	BRIDGETON BOREHOLE 3	241021.322	
722021.423	4294293.75	6172	07-Jul-15	BRIDGETON BOREHOLE 3	241651.09	
722027.663	4294295.498	6182	07-Jul-15	BRIDGETON BOREHOLE 3	241140.051	
722015.538	4294296.519	6199	07-Jul-15	BRIDGETON BOREHOLE 3	241789.017	
722014.683	4294290.864	6207	07-Jul-15	BRIDGETON BOREHOLE 3	241767.893	
722025.708	4294292.511	6210	07-Jul-15	BRIDGETON BOREHOLE 3	241541.102	
722032.114	4294284.324	6219	07-Jul-15	BRIDGETON BOREHOLE 3	241901.056	
722027.116	4294295.696	6225	07-Jul-15	BRIDGETON BOREHOLE 3	241141.304	
722028.25	4294289.01	6245	07-Jul-15	BRIDGETON BOREHOLE 3	241422.045	
722031.425	4294283.525	6270	07-Jul-15	BRIDGETON BOREHOLE 3	241230.135	
722023.506	4294294.97	6270	07-Jul-15	BRIDGETON BOREHOLE 3	241635.837	
722026.896	4294290.875	6272	07-Jul-15	BRIDGETON BOREHOLE 3	241487.04	
722026.389	4294290.291	6273	07-Jul-15	BRIDGETON BOREHOLE 3	241457.198	
722036.409	4294282.379	6278	07-Jul-15	BRIDGETON BOREHOLE 3	241910.916	
722015.376	4294289.754	6294	07-Jul-15	BRIDGETON BOREHOLE 3	241192.095	
722031.951	4294282.841	6307	07-Jul-15	BRIDGETON BOREHOLE 3	241259.155	
722030.345	4294284.117	6309	07-Jul-15	BRIDGETON BOREHOLE 3	241219.209	
722012.916	4294294.002	6314	07-Jul-15	BRIDGETON BOREHOLE 3	241812.922	
722025.545	4294291.181	6325	07-Jul-15	BRIDGETON BOREHOLE 3	241515.28	
722016.911	4294291.904	6353	07-Jul-15	BRIDGETON BOREHOLE 3	241712.784	
722028.993	4294286.221	6369	07-Jul-15	BRIDGETON BOREHOLE 3	241073.002	
722033.205	4294283.45	6386	07-Jul-15	BRIDGETON BOREHOLE 3	241903.779	
722031.557	4294284.795	6388	07-Jul-15	BRIDGETON BOREHOLE 3	241079.201	
722023.831	4294295.568	6397	07-Jul-15	BRIDGETON BOREHOLE 3	241637.287	
722038.473	4294283.142	6403	07-Jul-15	BRIDGETON BOREHOLE 3	241273.86	
722038.24	4294283.325	6412	07-Jul-15	BRIDGETON BOREHOLE 3	241273.042	
722013.039	4294295.702	6419	07-Jul-15	BRIDGETON BOREHOLE 3	241828.918	
722031.135	4294285.006	6436	07-Jul-15	BRIDGETON BOREHOLE 3	241078.19	
722024.476	4294297.17	6440	07-Jul-15	BRIDGETON BOREHOLE 3	241641.04	
722026.728	4294295.889	6446	07-Jul-15	BRIDGETON BOREHOLE 3	241142.131	
722024.337	4294292.793	6459	07-Jul-15	BRIDGETON BOREHOLE 3	241561.098	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722033.966	4294282.986	6474	07-Jul-15	BRIDGETON BOREHOLE 3	241905.758	
722014.511	4294293.106	6478	07-Jul-15	BRIDGETON BOREHOLE 3	241781.701	
722026.078	4294289.368	6489	07-Jul-15	BRIDGETON BOREHOLE 3	241038.209	
722031.445	4294283.887	6495	07-Jul-15	BRIDGETON BOREHOLE 3	241222.166	
722030.076	4294285.553	6507	07-Jul-15	BRIDGETON BOREHOLE 3	241075.946	
722031.84	4294284.669	6517	07-Jul-15	BRIDGETON BOREHOLE 3	241080.213	
722031.859	4294283.623	6517	07-Jul-15	BRIDGETON BOREHOLE 3	241227.095	
722031.429	4294283.492	6517	07-Jul-15	BRIDGETON BOREHOLE 3	241231.251	
722027.037	4294291.119	6518	07-Jul-15	BRIDGETON BOREHOLE 3	241487.843	
722031.501	4294283.551	6519	07-Jul-15	BRIDGETON BOREHOLE 3	241229.367	
722027.8	4294292.196	6536	07-Jul-15	BRIDGETON BOREHOLE 3	241452.181	
722028.779	4294289.931	6540	07-Jul-15	BRIDGETON BOREHOLE 3	241424.098	
722036.557	4294282.882	6565	07-Jul-15	BRIDGETON BOREHOLE 3	241912.747	
722014.776	4294289.959	6578	07-Jul-15	BRIDGETON BOREHOLE 3	241191.104	
722029.196	4294293.881	6584	07-Jul-15	BRIDGETON BOREHOLE 3	241448.18	
722038.079	4294282.63	6586	07-Jul-15	BRIDGETON BOREHOLE 3	241092.993	
722028.782	4294293.369	6596	07-Jul-15	BRIDGETON BOREHOLE 3	241449.144	
722025.538	4294289.571	6604	07-Jul-15	BRIDGETON BOREHOLE 3	241019.096	
722024.879	4294294.097	6612	07-Jul-15	BRIDGETON BOREHOLE 3	241590.107	
722028.255	4294286.884	6613	07-Jul-15	BRIDGETON BOREHOLE 3	241406.056	
722025.594	4294289.463	6682	07-Jul-15	BRIDGETON BOREHOLE 3	241013.293	
722012.042	4294294.397	6693	07-Jul-15	BRIDGETON BOREHOLE 3	241857.958	
722014.325	4294293.034	6693	07-Jul-15	BRIDGETON BOREHOLE 3	241871.116	
722033.686	4294283.155	6696	07-Jul-15	BRIDGETON BOREHOLE 3	241905.021	
722036.58	4294282.701	6699	07-Jul-15	BRIDGETON BOREHOLE 3	241911.858	
722038.75	4294283.126	6701	07-Jul-15	BRIDGETON BOREHOLE 3	241275.192	
722032.905	4294283.661	6703	07-Jul-15	BRIDGETON BOREHOLE 3	241903.004	
722023.844	4294297.16	6710	07-Jul-15	BRIDGETON BOREHOLE 3	241641.81	
722012.83	4294295.272	6716	07-Jul-15	BRIDGETON BOREHOLE 3	241827.729	
722027.482	4294294.229	6730	07-Jul-15	BRIDGETON BOREHOLE 3	241508.039	
722018.972	4294295.297	6738	07-Jul-15	BRIDGETON BOREHOLE 3	241688.916	
722017.952	4294297.166	6753	07-Jul-15	BRIDGETON BOREHOLE 3	241725.908	
722036.948	4294283.289	6763	07-Jul-15	BRIDGETON BOREHOLE 3	241269.205	
722028.898	4294295.09	6772	07-Jul-15	BRIDGETON BOREHOLE 3	241137.108	
722030.361	4294286.686	6789	07-Jul-15	BRIDGETON BOREHOLE 3	241893.862	
722027.225	4294291.428	6791	07-Jul-15	BRIDGETON BOREHOLE 3	241454.051	
722032.505	4294282.91	6796	07-Jul-15	BRIDGETON BOREHOLE 3	241260.025	
722035.593	4294286.533	6805	07-Jul-15	BRIDGETON BOREHOLE 3	241310.093	
722011.661	4294292.257	6805	07-Jul-15	BRIDGETON BOREHOLE 3	241818.796	
722013.645	4294290.399	6820	07-Jul-15	BRIDGETON BOREHOLE 3	241189.1	
722025.748	4294291.57	6822	07-Jul-15	BRIDGETON BOREHOLE 3	241514.003	
722027.824	4294292.206	6859	07-Jul-15	BRIDGETON BOREHOLE 3	241491.102	
722036.079	4294283.403	6867	07-Jul-15	BRIDGETON BOREHOLE 3	241914.859	
722031.638	4294283.59	6879	07-Jul-15	BRIDGETON BOREHOLE 3	241228.184	
722013.19	4294290.586	6881	07-Jul-15	BRIDGETON BOREHOLE 3	241188.247	
722040.47	4294287.885	6888	07-Jul-15	BRIDGETON BOREHOLE 3	241287.116	
722025.975	4294291.905	6889	07-Jul-15	BRIDGETON BOREHOLE 3	241513.247	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722011.754	4294292.583	6891	07-Jul-15	BRIDGETON BOREHOLE 3	241819.934	
722032.403	4294284.079	6894	07-Jul-15	BRIDGETON BOREHOLE 3	241901.797	
722015.882	4294295.568	6911	07-Jul-15	BRIDGETON BOREHOLE 3	241757.043	
722028.987	4294290.29	6915	07-Jul-15	BRIDGETON BOREHOLE 3	241425.097	
722040.175	4294288.765	6918	07-Jul-15	BRIDGETON BOREHOLE 3	241289.199	
722033.2	4294282.939	6919	07-Jul-15	BRIDGETON BOREHOLE 3	241261.29	
722027.948	4294288.224	6919	07-Jul-15	BRIDGETON BOREHOLE 3	241420.044	
722034.873	4294282.464	6922	07-Jul-15	BRIDGETON BOREHOLE 3	241907.869	
722017.381	4294297.604	6927	07-Jul-15	BRIDGETON BOREHOLE 3	241746.092	
722011.891	4294293.969	6928	07-Jul-15	BRIDGETON BOREHOLE 3	241860.098	
722037.045	4294284.025	6930	07-Jul-15	BRIDGETON BOREHOLE 3	241952.798	
722031.525	4294283.819	6933	07-Jul-15	BRIDGETON BOREHOLE 3	241223.283	
722023.443	4294294.069	6936	07-Jul-15	BRIDGETON BOREHOLE 3	241605.109	
722035.557	4294286.252	6942	07-Jul-15	BRIDGETON BOREHOLE 3	241309.098	
722021.108	4294295.977	6952	07-Jul-15	BRIDGETON BOREHOLE 3	241679.099	
722036.819	4294284.271	6952	07-Jul-15	BRIDGETON BOREHOLE 3	241953.889	
722023.256	4294293.819	6954	07-Jul-15	BRIDGETON BOREHOLE 3	241606.214	
722015.725	4294296.881	6980	07-Jul-15	BRIDGETON BOREHOLE 3	241790.041	
722020.795	4294298.054	6997	07-Jul-15	BRIDGETON BOREHOLE 3	241154.374	
722013.591	4294295.67	6997	07-Jul-15	BRIDGETON BOREHOLE 3	241808.891	
722013.754	4294296.855	7019	07-Jul-15	BRIDGETON BOREHOLE 3	241832.012	
722015.928	4294296.463	7026	07-Jul-15	BRIDGETON BOREHOLE 3	241754.84	
722035.498	4294283.523	7040	07-Jul-15	BRIDGETON BOREHOLE 3	241088.168	
722011.953	4294294.303	7042	07-Jul-15	BRIDGETON BOREHOLE 3	241851.877	
722023.031	4294296.872	7047	07-Jul-15	BRIDGETON BOREHOLE 3	241642.925	
722034.449	4294282.678	7048	07-Jul-15	BRIDGETON BOREHOLE 3	241906.939	
722036.627	4294284.586	7048	07-Jul-15	BRIDGETON BOREHOLE 3	241955.097	
722025.556	4294289.57	7051	07-Jul-15	BRIDGETON BOREHOLE 3	241020.227	
722012.458	4294292.201	7071	07-Jul-15	BRIDGETON BOREHOLE 3	241867.806	
722038.981	4294282.398	7076	07-Jul-15	BRIDGETON BOREHOLE 3	241094.235	
722028.521	4294289.531	7081	07-Jul-15	BRIDGETON BOREHOLE 3	241423.302	
722035.642	4294284.017	7090	07-Jul-15	BRIDGETON BOREHOLE 3	241947.8831	
722017.931	4294296.745	7095	07-Jul-15	BRIDGETON BOREHOLE 3	241725.115	
722024.457	4294293.24	7118	07-Jul-15	BRIDGETON BOREHOLE 3	241560.106	
722012.468	4294290.74	7124	07-Jul-15	BRIDGETON BOREHOLE 3	241187.115	
722030.912	4294286.447	7127	07-Jul-15	BRIDGETON BOREHOLE 3	241894.884	
722035.571	4294286.143	7130	07-Jul-15	BRIDGETON BOREHOLE 3	241308.205	
722035.418	4294282.277	7130	07-Jul-15	BRIDGETON BOREHOLE 3	241908.922	
722012.9	4294292.717	7137	07-Jul-15	BRIDGETON BOREHOLE 3	241868.843	
722028.605	4294293.121	7139	07-Jul-15	BRIDGETON BOREHOLE 3	241449.924	
722031.566	4294286.006	7163	07-Jul-15	BRIDGETON BOREHOLE 3	241896.046	
722038.105	4294283.382	7170	07-Jul-15	BRIDGETON BOREHOLE 3	241271.949	
722011.958	4294294.363	7171	07-Jul-15	BRIDGETON BOREHOLE 3	241850.859	
722035.083	4294283.087	7172	07-Jul-15	BRIDGETON BOREHOLE 3	241265.101	
722024.352	4294296.181	7172	07-Jul-15	BRIDGETON BOREHOLE 3	241639.128	
722025.097	4294294.448	7173	07-Jul-15	BRIDGETON BOREHOLE 3	241590.899	
722011.728	4294291.372	7175	07-Jul-15	BRIDGETON BOREHOLE 3	241865.665	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722035.56	4294285.299	7180	07-Jul-15	BRIDGETON BOREHOLE 3	241958.035	
722021.813	4294295.163	7188	07-Jul-15	BRIDGETON BOREHOLE 3	241647.872	
722036.157	4294283.369	7190	07-Jul-15	BRIDGETON BOREHOLE 3	241089.272	
722033.194	4294287.318	7193	07-Jul-15	BRIDGETON BOREHOLE 3	241972.849	
722013.57	4294296.547	7196	07-Jul-15	BRIDGETON BOREHOLE 3	241831.194	
722031.218	4294287.352	7200	07-Jul-15	BRIDGETON BOREHOLE 3	241929.835	
722037.021	4294283.877	7200	07-Jul-15	BRIDGETON BOREHOLE 3	241951.838	
722025.027	4294296.68	7202	07-Jul-15	BRIDGETON BOREHOLE 3	241146.102	
722034.12	4294286.38	7212	07-Jul-15	BRIDGETON BOREHOLE 3	241961.6801	
722030.757	4294288.142	7214	07-Jul-15	BRIDGETON BOREHOLE 3	241371.089	
722019.69	4294296.55	7214	07-Jul-15	BRIDGETON BOREHOLE 3	241686.004	
722026.098	4294296.068	7215	07-Jul-15	BRIDGETON BOREHOLE 3	241552.249	
722012.034	4294294.637	7216	07-Jul-15	BRIDGETON BOREHOLE 3	241849.188	
722029.131	4294289.05	7218	07-Jul-15	BRIDGETON BOREHOLE 3	241401.879	
722015.888	4294296.75	7223	07-Jul-15	BRIDGETON BOREHOLE 3	241753.941	
722013.403	4294298.742	7229	07-Jul-15	BRIDGETON BOREHOLE 3	241169.427	
722015.759	4294297.14	7235	07-Jul-15	BRIDGETON BOREHOLE 3	241790.855	
722017.398	4294297.777	7239	07-Jul-15	BRIDGETON BOREHOLE 3	241739.838	
722030.251	4294290.996	7241	07-Jul-15	BRIDGETON BOREHOLE 3	241397.107	
722014.658	4294298.328	7249	07-Jul-15	BRIDGETON BOREHOLE 3	241835.817	
722011.88	4294290.974	7257	07-Jul-15	BRIDGETON BOREHOLE 3	241186.088	
722030.679	4294287.762	7258	07-Jul-15	BRIDGETON BOREHOLE 3	241370.095	
722021.296	4294296.335	7258	07-Jul-15	BRIDGETON BOREHOLE 3	241679.871	
722022.304	4294296.229	7265	07-Jul-15	BRIDGETON BOREHOLE 3	241645.09	
722030.726	4294285.207	7267	07-Jul-15	BRIDGETON BOREHOLE 3	241077.338	
722036.581	4294290.324	7270	07-Jul-15	BRIDGETON BOREHOLE 3	241337.232	
722029.338	4294289.389	7275	07-Jul-15	BRIDGETON BOREHOLE 3	241401.097	
722029.25	4294290.827	7278	07-Jul-15	BRIDGETON BOREHOLE 3	241426.109	
722014.165	4294297.511	7278	07-Jul-15	BRIDGETON BOREHOLE 3	241833.852	
722031.5	4294283.833	7283	07-Jul-15	BRIDGETON BOREHOLE 3	241224.205	
722012.113	4294291.652	7283	07-Jul-15	BRIDGETON BOREHOLE 3	241867.006	
722039.185	4294283.096	7285	07-Jul-15	BRIDGETON BOREHOLE 3	241276.057	
722036.713	4294283.289	7287	07-Jul-15	BRIDGETON BOREHOLE 3	241090.195	
722040.092	4294282.96	7297	07-Jul-15	BRIDGETON BOREHOLE 3	241096.157	
722011.674	4294292.856	7302	07-Jul-15	BRIDGETON BOREHOLE 3	241820.778	
722012.714	4294293.645	7308	07-Jul-15	BRIDGETON BOREHOLE 3	241813.751	
722025.54	4294296.46	7328	07-Jul-15	BRIDGETON BOREHOLE 3	241145.104	
722021.34	4294296.886	7334	07-Jul-15	BRIDGETON BOREHOLE 3	241681.096	
722012.039	4294294.413	7334	07-Jul-15	BRIDGETON BOREHOLE 3	241857.193	
722012.368	4294294.247	7336	07-Jul-15	BRIDGETON BOREHOLE 3	241825.026	
722028.127	4294288.758	7339	07-Jul-15	BRIDGETON BOREHOLE 3	241421.361	
722012.52	4294293.168	7347	07-Jul-15	BRIDGETON BOREHOLE 3	241814.887	
722024.509	4294296.869	7350	07-Jul-15	BRIDGETON BOREHOLE 3	241147.229	
722016.413	4294299.278	7350	07-Jul-15	BRIDGETON BOREHOLE 3	241795.855	
722017.406	4294297.778	7354	07-Jul-15	BRIDGETON BOREHOLE 3	241738.048	
722017.395	4294297.778	7358	07-Jul-15	BRIDGETON BOREHOLE 3	241739.084	
722028.545	4294295.254	7363	07-Jul-15	BRIDGETON BOREHOLE 3	241138.1	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722012.155	4294294.533	7376	07-Jul-15	BRIDGETON BOREHOLE 3	241856.113	
722024.181	4294295.29	7382	07-Jul-15	BRIDGETON BOREHOLE 3	241602.07	
722017.977	4294297.951	7388	07-Jul-15	BRIDGETON BOREHOLE 3	241727.036	
722026.284	4294293.475	7399	07-Jul-15	BRIDGETON BOREHOLE 3	241543.153	
722034.812	4294284.202	7399	07-Jul-15	BRIDGETON BOREHOLE 3	241917.93	
722028.629	4294293.333	7402	07-Jul-15	BRIDGETON BOREHOLE 3	241494.045	
722026.993	4294294.942	7406	07-Jul-15	BRIDGETON BOREHOLE 3	241547.248	
722029.245	4294294.915	7408	07-Jul-15	BRIDGETON BOREHOLE 3	241136.025	
722014.305	4294297.416	7442	07-Jul-15	BRIDGETON BOREHOLE 3	241804.047	
722027.953	4294295.425	7450	07-Jul-15	BRIDGETON BOREHOLE 3	241139.218	
722031.539	4294286.657	7452	07-Jul-15	BRIDGETON BOREHOLE 3	241927.797	
722026.407	4294293.726	7459	07-Jul-15	BRIDGETON BOREHOLE 3	241543.757	
722035.655	4294287.156	7467	07-Jul-15	BRIDGETON BOREHOLE 3	241312.038	
722017.423	4294297.706	7468	07-Jul-15	BRIDGETON BOREHOLE 3	241747.693	
722039.66	4294282.565	7469	07-Jul-15	BRIDGETON BOREHOLE 3	241095.302	
722024.55	4294293.694	7474	07-Jul-15	BRIDGETON BOREHOLE 3	241559.103	
722028.905	4294288.504	7474	07-Jul-15	BRIDGETON BOREHOLE 3	241403.106	
722035.028	4294284.658	7479	07-Jul-15	BRIDGETON BOREHOLE 3	241945.144	
722028.12	4294295.141	7483	07-Jul-15	BRIDGETON BOREHOLE 3	241506.092	
722027.453	4294291.717	7484	07-Jul-15	BRIDGETON BOREHOLE 3	241453.297	
722033.591	4294283.01	7489	07-Jul-15	BRIDGETON BOREHOLE 3	241262.098	
722030.697	4294293.464	7500	07-Jul-15	BRIDGETON BOREHOLE 3	241433.114	
722032.874	4294287.315	7500	07-Jul-15	BRIDGETON BOREHOLE 3	241964.866	
722011.709	4294297.98	7502	07-Jul-15	BRIDGETON BOREHOLE 3	241174.064	
722012.087	4294295.253	7505	07-Jul-15	BRIDGETON BOREHOLE 3	241848.059	
722026.569	4294292.805	7507	07-Jul-15	BRIDGETON BOREHOLE 3	241511.326	
722034.832	4294285.828	7513	07-Jul-15	BRIDGETON BOREHOLE 3	241960.0909	
722013.865	4294297.172	7514	07-Jul-15	BRIDGETON BOREHOLE 3	241832.856	
722037.844	4294288.531	7516	07-Jul-15	BRIDGETON BOREHOLE 3	241297.068	
722035.298	4294283.902	7516	07-Jul-15	BRIDGETON BOREHOLE 3	241916.84	
722032.144	4294287.831	7518	07-Jul-15	BRIDGETON BOREHOLE 3	241967.105	
722032.866	4294287.784	7518	07-Jul-15	BRIDGETON BOREHOLE 3	241969.949	
722011.459	4294292.3	7519	07-Jul-15	BRIDGETON BOREHOLE 3	241184.029	
722035.567	4294286.057	7519	07-Jul-15	BRIDGETON BOREHOLE 3	241307.407	
722014.431	4294298.003	7519	07-Jul-15	BRIDGETON BOREHOLE 3	241835.002	
722011.539	4294296.022	7522	07-Jul-15	BRIDGETON BOREHOLE 3	241178.126	
722037.377	4294287.946	7534	07-Jul-15	BRIDGETON BOREHOLE 3	241299.104	
722028.852	4294295.8	7535	07-Jul-15	BRIDGETON BOREHOLE 3	241504.043	
722031.275	4294293.942	7537	07-Jul-15	BRIDGETON BOREHOLE 3	241131.368	
722017.307	4294297.641	7550	07-Jul-15	BRIDGETON BOREHOLE 3	241745.227	
722035.538	4294286.746	7551	07-Jul-15	BRIDGETON BOREHOLE 3	241311.006	
722036.288	4294283.181	7551	07-Jul-15	BRIDGETON BOREHOLE 3	241913.856	
722036.488	4294290.42	7554	07-Jul-15	BRIDGETON BOREHOLE 3	241340.197	
722011.676	4294297.378	7556	07-Jul-15	BRIDGETON BOREHOLE 3	241176.046	
722021.881	4294297.694	7560	07-Jul-15	BRIDGETON BOREHOLE 3	241152.115	
722036.893	4294283.698	7560	07-Jul-15	BRIDGETON BOREHOLE 3	241951.083	
722012.001	4294294.463	7564	07-Jul-15	BRIDGETON BOREHOLE 3	241849.982	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722029.775	4294294.905	7568	07-Jul-15	BRIDGETON BOREHOLE 3	241497.882	
722024.133	4294295.853	7569	07-Jul-15	BRIDGETON BOREHOLE 3	241638.092	
722019.607	4294298.367	7570	07-Jul-15	BRIDGETON BOREHOLE 3	241156.306	
722037.363	4294283.341	7570	07-Jul-15	BRIDGETON BOREHOLE 3	241269.991	
722011.509	4294291.644	7582	07-Jul-15	BRIDGETON BOREHOLE 3	241864.956	
722017.436	4294297.755	7589	07-Jul-15	BRIDGETON BOREHOLE 3	241735.058	
722024.971	4294296.188	7594	07-Jul-15	BRIDGETON BOREHOLE 3	241599.214	
722034.151	4294285.61	7600	07-Jul-15	BRIDGETON BOREHOLE 3	241940.96	
722014.909	4294298.739	7602	07-Jul-15	BRIDGETON BOREHOLE 3	241836.845	
722034.128	4294290.563	7605	07-Jul-15	BRIDGETON BOREHOLE 3	241354.18	
722030.945	4294293.731	7605	07-Jul-15	BRIDGETON BOREHOLE 3	241433.891	
722036.35	4294284.77	7612	07-Jul-15	BRIDGETON BOREHOLE 3	241955.8621	
722031.351	4294287.163	7620	07-Jul-15	BRIDGETON BOREHOLE 3	241931.094	
722012.119	4294294.444	7625	07-Jul-15	BRIDGETON BOREHOLE 3	241853.886	
722023.933	4294297.017	7627	07-Jul-15	BRIDGETON BOREHOLE 3	241148.254	
722013.693	4294298.584	7631	07-Jul-15	BRIDGETON BOREHOLE 3	241840.842	
722011.476	4294293.623	7638	07-Jul-15	BRIDGETON BOREHOLE 3	241182.064	
722011.481	4294292.837	7639	07-Jul-15	BRIDGETON BOREHOLE 3	241183.214	
722031.353	4294292.967	7645	07-Jul-15	BRIDGETON BOREHOLE 3	241392.105	
722011.49	4294292.233	7650	07-Jul-15	BRIDGETON BOREHOLE 3	241863.935	
722028.296	4294292.885	7651	07-Jul-15	BRIDGETON BOREHOLE 3	241492.855	
722033.143	4294287.336	7654	07-Jul-15	BRIDGETON BOREHOLE 3	241971.812	
722028.713	4294288.032	7658	07-Jul-15	BRIDGETON BOREHOLE 3	241403.935	
722030.522	4294292.948	7679	07-Jul-15	BRIDGETON BOREHOLE 3	241431.886	
722016.26	4294298.725	7679	07-Jul-15	BRIDGETON BOREHOLE 3	241794.838	
722027.212	4294293.792	7682	07-Jul-15	BRIDGETON BOREHOLE 3	241509.104	
722028.008	4294292.49	7684	07-Jul-15	BRIDGETON BOREHOLE 3	241491.858	
722033.939	4294290.076	7691	07-Jul-15	BRIDGETON BOREHOLE 3	241355.368	
722018.921	4294298.546	7703	07-Jul-15	BRIDGETON BOREHOLE 3	241158.102	
722040.703	4294283.498	7704	07-Jul-15	BRIDGETON BOREHOLE 3	241097.296	
722015.393	4294298.836	7710	07-Jul-15	BRIDGETON BOREHOLE 3	241165.042	
722014.619	4294299.353	7720	07-Jul-15	BRIDGETON BOREHOLE 3	241838.086	
722027.75	4294294.633	7721	07-Jul-15	BRIDGETON BOREHOLE 3	241507.186	
722036.055	4294285	7723	07-Jul-15	BRIDGETON BOREHOLE 3	241956.886	
722015.955	4294295.932	7726	07-Jul-15	BRIDGETON BOREHOLE 3	241756.092	
722026.134	4294296.698	7729	07-Jul-15	BRIDGETON BOREHOLE 3	241596.203	
722034.654	4294293.409	7734	07-Jul-15	BRIDGETON BOREHOLE 3	241384.057	
722040.477	4294286.898	7738	07-Jul-15	BRIDGETON BOREHOLE 3	241285.232	
722025.693	4294296.81	7752	07-Jul-15	BRIDGETON BOREHOLE 3	241597.25	
722036.692	4294287.193	7754	07-Jul-15	BRIDGETON BOREHOLE 3	241302.104	
722019.206	4294295.793	7755	07-Jul-15	BRIDGETON BOREHOLE 3	241687.765	
722032.467	4294285.815	7766	07-Jul-15	BRIDGETON BOREHOLE 3	241924.843	
722017.404	4294297.919	7773	07-Jul-15	BRIDGETON BOREHOLE 3	241729.933	
722031.046	4294296.131	7781	07-Jul-15	BRIDGETON BOREHOLE 3	241442.091	
722023.961	4294294.883	7785	07-Jul-15	BRIDGETON BOREHOLE 3	241603.033	
722029.997	4294294.844	7787	07-Jul-15	BRIDGETON BOREHOLE 3	241446.036	
722036.502	4294290.389	7789	07-Jul-15	BRIDGETON BOREHOLE 3	241339.379	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722032.344	4294296.128	7792	07-Jul-15	BRIDGETON BOREHOLE 3	241439.099	
722012.116	4294294.153	7793	07-Jul-15	BRIDGETON BOREHOLE 3	241858.841	
722015.409	4294299.658	7794	07-Jul-15	BRIDGETON BOREHOLE 3	241798.174	
722016.199	4294298.362	7796	07-Jul-15	BRIDGETON BOREHOLE 3	241794.037	
722037.792	4294283.42	7802	07-Jul-15	BRIDGETON BOREHOLE 3	241271.143	
722022.551	4294297.508	7803	07-Jul-15	BRIDGETON BOREHOLE 3	241151.094	
722025.87	4294295.843	7803	07-Jul-15	BRIDGETON BOREHOLE 3	241553.065	
722031.245	4294287.088	7803	07-Jul-15	BRIDGETON BOREHOLE 3	241929.002	
722018.31	4294298.62	7805	07-Jul-15	BRIDGETON BOREHOLE 3	241159.266	
722031.687	4294286.82	7811	07-Jul-15	BRIDGETON BOREHOLE 3	241932.99	
722024.924	4294294.198	7816	07-Jul-15	BRIDGETON BOREHOLE 3	241557.914	
722022.628	4294296.662	7822	07-Jul-15	BRIDGETON BOREHOLE 3	241643.756	
722036.954	4294290.612	7829	07-Jul-15	BRIDGETON BOREHOLE 3	241327.118	
722034.071	4294292.541	7834	07-Jul-15	BRIDGETON BOREHOLE 3	241382.251	
722031.766	4294284.797	7835	07-Jul-15	BRIDGETON BOREHOLE 3	241899.864	
722039.524	4294290.007	7837	07-Jul-15	BRIDGETON BOREHOLE 3	241114.221	
722028.735	4294286.403	7838	07-Jul-15	BRIDGETON BOREHOLE 3	241072.181	
722033.336	4294286.944	7838	07-Jul-15	BRIDGETON BOREHOLE 3	241986.095	
722032.919	4294286.978	7840	07-Jul-15	BRIDGETON BOREHOLE 3	241976.861	
722032.114	4294287.866	7849	07-Jul-15	BRIDGETON BOREHOLE 3	241967.885	
722037.916	4294290.833	7853	07-Jul-15	BRIDGETON BOREHOLE 3	241117.12	
722030.714	4294291.715	7853	07-Jul-15	BRIDGETON BOREHOLE 3	241395.198	
722030.781	4294295.851	7855	07-Jul-15	BRIDGETON BOREHOLE 3	241443.036	
722029.58	4294294.329	7856	07-Jul-15	BRIDGETON BOREHOLE 3	241447.126	
722032.032	4294296.481	7858	07-Jul-15	BRIDGETON BOREHOLE 3	241439.87	
722033.122	4294287.213	7858	07-Jul-15	BRIDGETON BOREHOLE 3	241974.005	
722026.722	4294296.337	7860	07-Jul-15	BRIDGETON BOREHOLE 3	241551.057	
722034.322	4294290.936	7860	07-Jul-15	BRIDGETON BOREHOLE 3	241353.094	
722017.863	4294298.698	7861	07-Jul-15	BRIDGETON BOREHOLE 3	241160.264	
722015.874	4294297.467	7868	07-Jul-15	BRIDGETON BOREHOLE 3	241791.692	
722037.12	4294291.428	7878	07-Jul-15	BRIDGETON BOREHOLE 3	241344.105	
722034.289	4294285.423	7880	07-Jul-15	BRIDGETON BOREHOLE 3	241941.767	
722035.047	4294283.679	7883	07-Jul-15	BRIDGETON BOREHOLE 3	241087.117	
722016.025	4294297.001	7893	07-Jul-15	BRIDGETON BOREHOLE 3	241753.187	
722012.683	4294294.987	7906	07-Jul-15	BRIDGETON BOREHOLE 3	241827.031	
722033.3	4294287.01	7909	07-Jul-15	BRIDGETON BOREHOLE 3	241981.752	
722017.457	4294297.741	7914	07-Jul-15	BRIDGETON BOREHOLE 3	241733.181	
722030.664	4294287.402	7915	07-Jul-15	BRIDGETON BOREHOLE 3	241369.002	
722014.174	4294298.933	7916	07-Jul-15	BRIDGETON BOREHOLE 3	241168.002	
722030.387	4294292.681	7918	07-Jul-15	BRIDGETON BOREHOLE 3	241431.13	
722011.534	4294292.998	7919	07-Jul-15	BRIDGETON BOREHOLE 3	241862.913	
722033.21	4294287.014	7920	07-Jul-15	BRIDGETON BOREHOLE 3	241964.0341	
722015.75	4294298.821	7922	07-Jul-15	BRIDGETON BOREHOLE 3	241164.075	
722033.66	4294286.745	7923	07-Jul-15	BRIDGETON BOREHOLE 3	241963.002	
722024.379	4294295.542	7929	07-Jul-15	BRIDGETON BOREHOLE 3	241601.243	
722031.777	4294285.734	7930	07-Jul-15	BRIDGETON BOREHOLE 3	241896.876	
722027.475	4294295.907	7933	07-Jul-15	BRIDGETON BOREHOLE 3	241549.116	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722036.061	4294288.974	7936	07-Jul-15	BRIDGETON BOREHOLE 3	241317.154	
722034.427	4294284.4	7939	07-Jul-15	BRIDGETON BOREHOLE 3	241919.004	
722032.994	4294287.362	7939	07-Jul-15	BRIDGETON BOREHOLE 3	241970.9041	
722012.022	4294294.35	7940	07-Jul-15	BRIDGETON BOREHOLE 3	241853.107	
722026.36	4294296.072	7941	07-Jul-15	BRIDGETON BOREHOLE 3	241143.103	
722035.868	4294288.216	7941	07-Jul-15	BRIDGETON BOREHOLE 3	241315.229	
722031.154	4294292.528	7941	07-Jul-15	BRIDGETON BOREHOLE 3	241393.191	
722012.268	4294296.031	7941	07-Jul-15	BRIDGETON BOREHOLE 3	241846.768	
722036.517	4294290.183	7946	07-Jul-15	BRIDGETON BOREHOLE 3	241321.364	
722030.829	4294286.901	7959	07-Jul-15	BRIDGETON BOREHOLE 3	241367.269	
722029.972	4294290.579	7960	07-Jul-15	BRIDGETON BOREHOLE 3	241398.193	
722016.897	4294298.821	7961	07-Jul-15	BRIDGETON BOREHOLE 3	241162.004	
722036.641	4294290.303	7961	07-Jul-15	BRIDGETON BOREHOLE 3	241336.176	
722031.288	4294294.234	7961	07-Jul-15	BRIDGETON BOREHOLE 3	241435.085	
722030.479	4294291.322	7963	07-Jul-15	BRIDGETON BOREHOLE 3	241396.292	
722021.744	4294294.606	7977	07-Jul-15	BRIDGETON BOREHOLE 3	241649.095	
722036.243	4294289.569	7981	07-Jul-15	BRIDGETON BOREHOLE 3	241319.106	
722031.293	4294289.162	7983	07-Jul-15	BRIDGETON BOREHOLE 3	241374.098	
722025.087	4294294.5	7984	07-Jul-15	BRIDGETON BOREHOLE 3	241557.121	
722035.341	4294292.139	7986	07-Jul-15	BRIDGETON BOREHOLE 3	241349.154	
722013.051	4294298.579	7987	07-Jul-15	BRIDGETON BOREHOLE 3	241170.209	
722035.772	4294283.609	7987	07-Jul-15	BRIDGETON BOREHOLE 3	241915.694	
722032.455	4294287.615	7995	07-Jul-15	BRIDGETON BOREHOLE 3	241965.723	
722026.321	4294292.425	7997	07-Jul-15	BRIDGETON BOREHOLE 3	241512.071	
722030.003	4294291.869	8009	07-Jul-15	BRIDGETON BOREHOLE 3	241429.138	
722017.477	4294297.746	8015	07-Jul-15	BRIDGETON BOREHOLE 3	241732.01	
722031.593	4294294.634	8020	07-Jul-15	BRIDGETON BOREHOLE 3	241436.22	
722033.102	4294287.058	8020	07-Jul-15	BRIDGETON BOREHOLE 3	241978.051	
722036.394	4294289.881	8025	07-Jul-15	BRIDGETON BOREHOLE 3	241320.241	
722012.218	4294294.552	8026	07-Jul-15	BRIDGETON BOREHOLE 3	241854.951	
722031.66	4294286.947	8030	07-Jul-15	BRIDGETON BOREHOLE 3	241364.095	
722030.251	4294292.239	8032	07-Jul-15	BRIDGETON BOREHOLE 3	241430.11	
722040.458	4294286.205	8033	07-Jul-15	BRIDGETON BOREHOLE 3	241284.102	
722037.026	4294290.619	8037	07-Jul-15	BRIDGETON BOREHOLE 3	241326.182	
722029.685	4294291.494	8037	07-Jul-15	BRIDGETON BOREHOLE 3	241428.071	
722036.537	4294283.72	8040	07-Jul-15	BRIDGETON BOREHOLE 3	241950.11	
722027.261	4294296.192	8043	07-Jul-15	BRIDGETON BOREHOLE 3	241549.89	
722016.265	4294298.851	8050	07-Jul-15	BRIDGETON BOREHOLE 3	241163.098	
722017.418	4294298.065	8051	07-Jul-15	BRIDGETON BOREHOLE 3	241729.156	
722031.083	4294288.874	8055	07-Jul-15	BRIDGETON BOREHOLE 3	241373.344	
722017.417	4294297.781	8056	07-Jul-15	BRIDGETON BOREHOLE 3	241737.002	
722025.314	4294296.542	8058	07-Jul-15	BRIDGETON BOREHOLE 3	241598.135	
722037.648	4294288.299	8059	07-Jul-15	BRIDGETON BOREHOLE 3	241298.019	
722040.05	4294283.742	8069	07-Jul-15	BRIDGETON BOREHOLE 3	241280.105	
722021.363	4294297.867	8070	07-Jul-15	BRIDGETON BOREHOLE 3	241153.204	
722026.953	4294293.382	8070	07-Jul-15	BRIDGETON BOREHOLE 3	241510.201	
722025.961	4294296.216	8075	07-Jul-15	BRIDGETON BOREHOLE 3	241144.055	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722034.071	4294284.593	8075	07-Jul-15	BRIDGETON BOREHOLE 3	241919.868	
722034.143	4294294.275	8081	07-Jul-15	BRIDGETON BOREHOLE 3	241385.976	
722036.653	4294290.238	8084	07-Jul-15	BRIDGETON BOREHOLE 3	241335.402	
722012.004	4294292.447	8086	07-Jul-15	BRIDGETON BOREHOLE 3	241816.934	
722017.624	4294298.374	8087	07-Jul-15	BRIDGETON BOREHOLE 3	241727.836	
722035.204	4294285.548	8095	07-Jul-15	BRIDGETON BOREHOLE 3	241959.024	
722019.897	4294296.829	8098	07-Jul-15	BRIDGETON BOREHOLE 3	241685.093	
722030.125	4294295.363	8102	07-Jul-15	BRIDGETON BOREHOLE 3	241499.044	
722026.562	4294294.141	8105	07-Jul-15	BRIDGETON BOREHOLE 3	241544.956	
722012.156	4294293.812	8105	07-Jul-15	BRIDGETON BOREHOLE 3	241823.905	
722012.387	4294292.802	8106	07-Jul-15	BRIDGETON BOREHOLE 3	241815.868	
722025.386	4294295.037	8107	07-Jul-15	BRIDGETON BOREHOLE 3	241555.297	
722040.301	4294288.377	8112	07-Jul-15	BRIDGETON BOREHOLE 3	241288.189	
722011.535	4294294.176	8114	07-Jul-15	BRIDGETON BOREHOLE 3	241181.122	
722029.756	4294296.363	8119	07-Jul-15	BRIDGETON BOREHOLE 3	241502.203	
722032.158	4294286.028	8121	07-Jul-15	BRIDGETON BOREHOLE 3	241925.871	
722036.73	4294290.388	8124	07-Jul-15	BRIDGETON BOREHOLE 3	241323.089	
722030.54	4294295.511	8127	07-Jul-15	BRIDGETON BOREHOLE 3	241444.019	
722011.609	4294296.657	8129	07-Jul-15	BRIDGETON BOREHOLE 3	241177.188	
722034.384	4294292.985	8138	07-Jul-15	BRIDGETON BOREHOLE 3	241383.186	
722032.281	4294284.474	8139	07-Jul-15	BRIDGETON BOREHOLE 3	241081.296	
722028.155	4294292.61	8144	07-Jul-15	BRIDGETON BOREHOLE 3	241451.093	
722011.551	4294295.392	8150	07-Jul-15	BRIDGETON BOREHOLE 3	241179.158	
722037.013	4294290.612	8150	07-Jul-15	BRIDGETON BOREHOLE 3	241325.189	
722036.528	4294290.048	8151	07-Jul-15	BRIDGETON BOREHOLE 3	241333.402	
722042.334	4294285.046	8153	07-Jul-15	BRIDGETON BOREHOLE 3	241101.26	
722032.339	4294293.544	8156	07-Jul-15	BRIDGETON BOREHOLE 3	241129.175	
722011.607	4294293.465	8158	07-Jul-15	BRIDGETON BOREHOLE 3	241861.876	
722034.58	4294291.33	8159	07-Jul-15	BRIDGETON BOREHOLE 3	241352.04	
722036.081	4294289.245	8164	07-Jul-15	BRIDGETON BOREHOLE 3	241318.109	
722040.62	4294289.487	8166	07-Jul-15	BRIDGETON BOREHOLE 3	241112.096	
722038.968	4294290.313	8169	07-Jul-15	BRIDGETON BOREHOLE 3	241115.202	
722029.747	4294290.237	8170	07-Jul-15	BRIDGETON BOREHOLE 3	241399.103	
722013.559	4294293.041	8174	07-Jul-15	BRIDGETON BOREHOLE 3	241870.045	
722038.207	4294288.992	8179	07-Jul-15	BRIDGETON BOREHOLE 3	241295.263	
722036.987	4294291.874	8179	07-Jul-15	BRIDGETON BOREHOLE 3	241345.166	
722034.433	4294292.457	8190	07-Jul-15	BRIDGETON BOREHOLE 3	241124.198	
722033.333	4294286.98	8195	07-Jul-15	BRIDGETON BOREHOLE 3	241985.1021	
722033.961	4294292.757	8197	07-Jul-15	BRIDGETON BOREHOLE 3	241125.339	
722036.871	4294290.426	8197	07-Jul-15	BRIDGETON BOREHOLE 3	241328.102	
722012.461	4294298.307	8201	07-Jul-15	BRIDGETON BOREHOLE 3	241172.098	
722034.118	4294283.045	8202	07-Jul-15	BRIDGETON BOREHOLE 3	241263.2	
722037.314	4294291.049	8203	07-Jul-15	BRIDGETON BOREHOLE 3	241118.017	
722015.146	4294299.136	8204	07-Jul-15	BRIDGETON BOREHOLE 3	241800.004	
722022.015	4294295.956	8206	07-Jul-15	BRIDGETON BOREHOLE 3	241646.1	
722036.593	4294283.143	8212	07-Jul-15	BRIDGETON BOREHOLE 3	241268.171	
722043.675	4294287.662	8219	07-Jul-15	BRIDGETON BOREHOLE 3	241106.219	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722016.529	4294297.86	8220	07-Jul-15	BRIDGETON BOREHOLE 3	241750.846	
722033.029	4294285.407	8224	07-Jul-15	BRIDGETON BOREHOLE 3	241922.849	
722017.442	4294297.775	8227	07-Jul-15	BRIDGETON BOREHOLE 3	241736.205	
722021.859	4294295.466	8231	07-Jul-15	BRIDGETON BOREHOLE 3	241647.104	
722040.511	4294287.416	8234	07-Jul-15	BRIDGETON BOREHOLE 3	241286.122	
722030.457	4294295.794	8235	07-Jul-15	BRIDGETON BOREHOLE 3	241499.873	
722025.931	4294295.608	8238	07-Jul-15	BRIDGETON BOREHOLE 3	241593.87	
722017.358	4294297.754	8241	07-Jul-15	BRIDGETON BOREHOLE 3	241743.703	
722024.673	4294296.717	8243	07-Jul-15	BRIDGETON BOREHOLE 3	241640.158	
722036.224	4294283.098	8248	07-Jul-15	BRIDGETON BOREHOLE 3	241267.369	
722040.497	4294285.699	8252	07-Jul-15	BRIDGETON BOREHOLE 3	241283.318	
722031.685	4294285.476	8252	07-Jul-15	BRIDGETON BOREHOLE 3	241897.781	
722041.89	4294284.554	8254	07-Jul-15	BRIDGETON BOREHOLE 3	241100.095	
722041.716	4294288.984	8258	07-Jul-15	BRIDGETON BOREHOLE 3	241110.199	
722033.344	4294286.906	8259	07-Jul-15	BRIDGETON BOREHOLE 3	241987.105	
722031.51	4294293.295	8262	07-Jul-15	BRIDGETON BOREHOLE 3	241391.217	
722026.754	4294294.478	8266	07-Jul-15	BRIDGETON BOREHOLE 3	241546.094	
722035.046	4294291.874	8266	07-Jul-15	BRIDGETON BOREHOLE 3	241350.095	
722029.419	4294291.167	8269	07-Jul-15	BRIDGETON BOREHOLE 3	241427.042	
722029.577	4294294.785	8272	07-Jul-15	BRIDGETON BOREHOLE 3	241135.202	
722011.702	4294293.842	8272	07-Jul-15	BRIDGETON BOREHOLE 3	241861.111	
722034.743	4294291.513	8276	07-Jul-15	BRIDGETON BOREHOLE 3	241351.443	
722013.884	4294296.398	8276	07-Jul-15	BRIDGETON BOREHOLE 3	241807.114	
722017.446	4294297.737	8278	07-Jul-15	BRIDGETON BOREHOLE 3	241733.96	
722017.282	4294298.003	8287	07-Jul-15	BRIDGETON BOREHOLE 3	241749.186	
722011.993	4294298.125	8290	07-Jul-15	BRIDGETON BOREHOLE 3	241173.222	
722014.906	4294298.626	8291	07-Jul-15	BRIDGETON BOREHOLE 3	241801.031	
722033.327	4294286.985	8302	07-Jul-15	BRIDGETON BOREHOLE 3	241983.868	
722033.147	4294287.031	8305	07-Jul-15	BRIDGETON BOREHOLE 3	241978.782	
722031.402	4294286.785	8307	07-Jul-15	BRIDGETON BOREHOLE 3	241365.114	
722025.586	4294295.368	8311	07-Jul-15	BRIDGETON BOREHOLE 3	241554.171	
722014.676	4294298.232	8312	07-Jul-15	BRIDGETON BOREHOLE 3	241802.04	
722029.552	4294294.508	8313	07-Jul-15	BRIDGETON BOREHOLE 3	241497.103	
722020.117	4294298.204	8319	07-Jul-15	BRIDGETON BOREHOLE 3	241155.424	
722035.319	4294284.458	8319	07-Jul-15	BRIDGETON BOREHOLE 3	241945.902	
722035.523	4294284.135	8320	07-Jul-15	BRIDGETON BOREHOLE 3	241947.0861	
722023.389	4294297.214	8327	07-Jul-15	BRIDGETON BOREHOLE 3	241149.375	
722033.502	4294284.006	8328	07-Jul-15	BRIDGETON BOREHOLE 3	241084.004	
722039.701	4294283.188	8331	07-Jul-15	BRIDGETON BOREHOLE 3	241277.312	
722028.447	4294287.363	8334	07-Jul-15	BRIDGETON BOREHOLE 3	241405.301	
722036.637	4294290.21	8338	07-Jul-15	BRIDGETON BOREHOLE 3	241334.105	
722019.366	4294296.115	8343	07-Jul-15	BRIDGETON BOREHOLE 3	241687.072	
722038.051	4294288.829	8344	07-Jul-15	BRIDGETON BOREHOLE 3	241296.063	
722036.193	4294286.67	8344	07-Jul-15	BRIDGETON BOREHOLE 3	241303.875	
722033.284	4294287.047	8346	07-Jul-15	BRIDGETON BOREHOLE 3	241979.811	
722014.032	4294299.221	8350	07-Jul-15	BRIDGETON BOREHOLE 3	241839.209	
722030.24	4294295.155	8351	07-Jul-15	BRIDGETON BOREHOLE 3	241445.236	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722036.491	4294290.319	8357	07-Jul-15	BRIDGETON BOREHOLE 3	241338.047	
722026.258	4294296.106	8359	07-Jul-15	BRIDGETON BOREHOLE 3	241594.871	
722017.393	4294297.782	8365	07-Jul-15	BRIDGETON BOREHOLE 3	241742.955	
722036.468	4294290.012	8366	07-Jul-15	BRIDGETON BOREHOLE 3	241332.105	
722033.391	4294288.884	8368	07-Jul-15	BRIDGETON BOREHOLE 3	241358.269	
722035.736	4294287.568	8377	07-Jul-15	BRIDGETON BOREHOLE 3	241313.209	
722015.795	4294299.745	8377	07-Jul-15	BRIDGETON BOREHOLE 3	241797.036	
722011.706	4294297.696	8385	07-Jul-15	BRIDGETON BOREHOLE 3	241175.26	
722014.557	4294298.938	8387	07-Jul-15	BRIDGETON BOREHOLE 3	241167.072	
722013.536	4294298.245	8388	07-Jul-15	BRIDGETON BOREHOLE 3	241841.718	
722033.568	4294289.325	8393	07-Jul-15	BRIDGETON BOREHOLE 3	241357.171	
722014.513	4294297.944	8408	07-Jul-15	BRIDGETON BOREHOLE 3	241802.83	
722040.465	4294284.908	8409	07-Jul-15	BRIDGETON BOREHOLE 3	241282.163	
722033.321	4294285.126	8417	07-Jul-15	BRIDGETON BOREHOLE 3	241921.909	
722041.19	4294289.178	8424	07-Jul-15	BRIDGETON BOREHOLE 3	241111.12	
722035.794	4294292.353	8424	07-Jul-15	BRIDGETON BOREHOLE 3	241348.013	
722040.115	4294289.762	8431	07-Jul-15	BRIDGETON BOREHOLE 3	241113.119	
722033.326	4294286.903	8433	07-Jul-15	BRIDGETON BOREHOLE 3	241992.0129	
722024.714	4294295.948	8438	07-Jul-15	BRIDGETON BOREHOLE 3	241600.054	
722033.371	4294286.013	8444	07-Jul-15	BRIDGETON BOREHOLE 3	241938.913	
722031.489	4294286.963	8445	07-Jul-15	BRIDGETON BOREHOLE 3	241931.8521	
722027.285	4294295.359	8451	07-Jul-15	BRIDGETON BOREHOLE 3	241548.044	
722031.887	4294293.726	8451	07-Jul-15	BRIDGETON BOREHOLE 3	241390.239	
722043.072	4294286.027	8452	07-Jul-15	BRIDGETON BOREHOLE 3	241103.222	
722025.334	4294294.883	8453	07-Jul-15	BRIDGETON BOREHOLE 3	241592.042	
722036.921	4294287.431	8458	07-Jul-15	BRIDGETON BOREHOLE 3	241301.103	
722030.824	4294288.411	8463	07-Jul-15	BRIDGETON BOREHOLE 3	241371.844	
722035.917	4294288.546	8465	07-Jul-15	BRIDGETON BOREHOLE 3	241316.038	
722033.661	4294284.841	8468	07-Jul-15	BRIDGETON BOREHOLE 3	241921.108	
722032.402	4294287.981	8472	07-Jul-15	BRIDGETON BOREHOLE 3	241968.843	
722033.118	4294284.116	8473	07-Jul-15	BRIDGETON BOREHOLE 3	241083.189	
722025.698	4294295.308	8473	07-Jul-15	BRIDGETON BOREHOLE 3	241593.102	
722032.111	4294286.463	8475	07-Jul-15	BRIDGETON BOREHOLE 3	241935.0601	
722033.365	4294286.954	8477	07-Jul-15	BRIDGETON BOREHOLE 3	241996.0551	
722032.679	4294290.771	8486	07-Jul-15	BRIDGETON BOREHOLE 3	241377.848	
722029.977	4294294.584	8487	07-Jul-15	BRIDGETON BOREHOLE 3	241134.123	
722019.196	4294298.482	8492	07-Jul-15	BRIDGETON BOREHOLE 3	241157.398	
722036.137	4294292.374	8498	07-Jul-15	BRIDGETON BOREHOLE 3	241347.268	
722036.579	4294290.212	8507	07-Jul-15	BRIDGETON BOREHOLE 3	241331.107	
722011.635	4294291.358	8510	07-Jul-15	BRIDGETON BOREHOLE 3	241185.383	
722017.421	4294297.664	8512	07-Jul-15	BRIDGETON BOREHOLE 3	241747.104	
722037.16	4294287.709	8513	07-Jul-15	BRIDGETON BOREHOLE 3	241300.104	
722020.162	4294297.116	8514	07-Jul-15	BRIDGETON BOREHOLE 3	241684.091	
722035.497	4294291.829	8526	07-Jul-15	BRIDGETON BOREHOLE 3	241122.179	
722034.616	4294283.075	8530	07-Jul-15	BRIDGETON BOREHOLE 3	241264.039	
722033.92	4294283.94	8532	07-Jul-15	BRIDGETON BOREHOLE 3	241085.04	
722016.265	4294297.484	8535	07-Jul-15	BRIDGETON BOREHOLE 3	241752.096	

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722025.277	4294294.794	8537	07-Jul-15	BRIDGETON BOREHOLE 3	241556.039	
722034.38	4294285.243	8545	07-Jul-15	BRIDGETON BOREHOLE 3	241943.001	
722023.612	4294294.376	8546	07-Jul-15	BRIDGETON BOREHOLE 3	241604.246	
722013.761	4294296.073	8549	07-Jul-15	BRIDGETON BOREHOLE 3	241807.884	
722031.037	4294286.724	8557	07-Jul-15	BRIDGETON BOREHOLE 3	241366.169	
722036.776	4294290.346	8559	07-Jul-15	BRIDGETON BOREHOLE 3	241329.206	
722034.578	4294293.985	8563	07-Jul-15	BRIDGETON BOREHOLE 3	241385.195	
722031.281	4294296.355	8564	07-Jul-15	BRIDGETON BOREHOLE 3	241441.337	
722012.926	4294297.242	8564	07-Jul-15	BRIDGETON BOREHOLE 3	241844.02	
722017.258	4294298.797	8565	07-Jul-15	BRIDGETON BOREHOLE 3	241161.378	
722031.868	4294286.292	8570	07-Jul-15	BRIDGETON BOREHOLE 3	241926.936	
722013.175	4294297.644	8577	07-Jul-15	BRIDGETON BOREHOLE 3	241843.141	
722014.127	4294297.127	8580	07-Jul-15	BRIDGETON BOREHOLE 3	241805.097	
722033.364	4294286.904	8586	07-Jul-15	BRIDGETON BOREHOLE 3	241988.8621	
722036.517	4294290.423	8594	07-Jul-15	BRIDGETON BOREHOLE 3	241341.174	
722017.395	4294297.784	8600	07-Jul-15	BRIDGETON BOREHOLE 3	241741.808	
722032.26	4294287.641	8604	07-Jul-15	BRIDGETON BOREHOLE 3	241362.059	
722032.034	4294295.382	8608	07-Jul-15	BRIDGETON BOREHOLE 3	241437.791	
722038.287	4294290.638	8612	07-Jul-15	BRIDGETON BOREHOLE 3	241116.412	
722011.69	4294292.274	8621	07-Jul-15	BRIDGETON BOREHOLE 3	241817.727	
722033.347	4294286.919	8651	07-Jul-15	BRIDGETON BOREHOLE 3	241990.844	
722029.231	4294296.051	8660	07-Jul-15	BRIDGETON BOREHOLE 3	241503.099	
722012.048	4294293.439	8661	07-Jul-15	BRIDGETON BOREHOLE 3	241823.104	
722033.123	4294288.348	8662	07-Jul-15	BRIDGETON BOREHOLE 3	241359.34	
722033.76	4294285.834	8681	07-Jul-15	BRIDGETON BOREHOLE 3	241939.843	
722011.5	4294294.716	8697	07-Jul-15	BRIDGETON BOREHOLE 3	241180.207	
722012.532	4294294.668	8704	07-Jul-15	BRIDGETON BOREHOLE 3	241826.023	
722033.336	4294286.869	8708	07-Jul-15	BRIDGETON BOREHOLE 3	241994.752	
722036.713	4294290.303	8709	07-Jul-15	BRIDGETON BOREHOLE 3	241330.257	
722036.793	4294291.325	8711	07-Jul-15	BRIDGETON BOREHOLE 3	241119.264	
722032.756	4294294.471	8720	07-Jul-15	BRIDGETON BOREHOLE 3	241388.104	
722031.883	4294287.149	8721	07-Jul-15	BRIDGETON BOREHOLE 3	241363.34	
722035.82	4294287.956	8724	07-Jul-15	BRIDGETON BOREHOLE 3	241314.35	
722011.882	4294293.119	8725	07-Jul-15	BRIDGETON BOREHOLE 3	241821.977	
722033.788	4294289.779	8732	07-Jul-15	BRIDGETON BOREHOLE 3	241356.094	
722030.734	4294287.107	8739	07-Jul-15	BRIDGETON BOREHOLE 3	241368.03	
722014.086	4294296.854	8745	07-Jul-15	BRIDGETON BOREHOLE 3	241805.924	
722016.086	4294297.985	8747	07-Jul-15	BRIDGETON BOREHOLE 3	241792.738	
722035.574	4294283.043	8753	07-Jul-15	BRIDGETON BOREHOLE 3	241266.042	
722017.007	4294298.184	8761	07-Jul-15	BRIDGETON BOREHOLE 3	241749.949	
722036.09	4294291.598	8771	07-Jul-15	BRIDGETON BOREHOLE 3	241121.08	
722039.056	4294289.591	8776	07-Jul-15	BRIDGETON BOREHOLE 3	241292.112	
722033.755	4294292.067	8776	07-Jul-15	BRIDGETON BOREHOLE 3	241381.185	
722032.994	4294291.2	8781	07-Jul-15	BRIDGETON BOREHOLE 3	241379.002	
722017.435	4294297.789	8783	07-Jul-15	BRIDGETON BOREHOLE 3	241731.067	
722031.659	4294285.023	8783	07-Jul-15	BRIDGETON BOREHOLE 3	241899.095	
722017.396	4294297.789	8800	07-Jul-15	BRIDGETON BOREHOLE 3	241740.953	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722032.929	4294287.108	8804	07-Jul-15	BRIDGETON BOREHOLE 3	241975.104	
722028.499	4294295.508	8813	07-Jul-15	BRIDGETON BOREHOLE 3	241505.102	
722033.025	4294286.174	8815	07-Jul-15	BRIDGETON BOREHOLE 3	241937.844	
722029.602	4294289.881	8822	07-Jul-15	BRIDGETON BOREHOLE 3	241399.89	
722039.468	4294289.551	8824	07-Jul-15	BRIDGETON BOREHOLE 3	241291.371	
722038.749	4294289.451	8824	07-Jul-15	BRIDGETON BOREHOLE 3	241293.101	
722033.278	4294291.584	8825	07-Jul-15	BRIDGETON BOREHOLE 3	241380.085	
722041.176	4294283.904	8826	07-Jul-15	BRIDGETON BOREHOLE 3	241098.242	
722033.344	4294286.953	8839	07-Jul-15	BRIDGETON BOREHOLE 3	241996.886	
722036.856	4294290.486	8841	07-Jul-15	BRIDGETON BOREHOLE 3	241323.845	
722020.57	4294297.311	8858	07-Jul-15	BRIDGETON BOREHOLE 3	241683.021	
722031.783	4294295.011	8875	07-Jul-15	BRIDGETON BOREHOLE 3	241437.035	
722034.977	4294292.059	8880	07-Jul-15	BRIDGETON BOREHOLE 3	241123.05	
722039.979	4294289.146	8899	07-Jul-15	BRIDGETON BOREHOLE 3	241290.086	
722033.35	4294286.893	8905	07-Jul-15	BRIDGETON BOREHOLE 3	241987.729	
722032.864	4294288.039	8915	07-Jul-15	BRIDGETON BOREHOLE 3	241360.173	
722015.04	4294298.948	8947	07-Jul-15	BRIDGETON BOREHOLE 3	241166.119	
722035.685	4294285.997	8959	07-Jul-15	BRIDGETON BOREHOLE 3	241306.04	
722034.503	4294283.776	8973	07-Jul-15	BRIDGETON BOREHOLE 3	241086.075	
722032.765	4294286.264	8982	07-Jul-15	BRIDGETON BOREHOLE 3	241937.0341	
722032.643	4294293.399	8985	07-Jul-15	BRIDGETON BOREHOLE 3	241128.283	
722032.741	4294285.604	8986	07-Jul-15	BRIDGETON BOREHOLE 3	241923.745	
722030.345	4294294.351	8991	07-Jul-15	BRIDGETON BOREHOLE 3	241133.289	
722033.601	4294292.935	9009	07-Jul-15	BRIDGETON BOREHOLE 3	241126.1	
722036.381	4294286.902	9018	07-Jul-15	BRIDGETON BOREHOLE 3	241303.194	
722021.14	4294297.21	9033	07-Jul-15	BRIDGETON BOREHOLE 3	241681.893	
722033.568	4294294.543	9040	07-Jul-15	BRIDGETON BOREHOLE 3	241387.039	
722038.454	4294289.202	9076	07-Jul-15	BRIDGETON BOREHOLE 3	241294.196	
722033.3	4294287.029	9076	07-Jul-15	BRIDGETON BOREHOLE 3	241980.7159	
722012.492	4294296.532	9085	07-Jul-15	BRIDGETON BOREHOLE 3	241845.688	
722043.375	4294286.417	9103	07-Jul-15	BRIDGETON BOREHOLE 3	241104.106	
722043.73	4294287.106	9115	07-Jul-15	BRIDGETON BOREHOLE 3	241105.348	
722040.089	4294283.474	9115	07-Jul-15	BRIDGETON BOREHOLE 3	241279.229	
722033.321	4294286.899	9128	07-Jul-15	BRIDGETON BOREHOLE 3	241993.0031	
722023.049	4294297.318	9131	07-Jul-15	BRIDGETON BOREHOLE 3	241150.103	
722042.244	4294288.746	9152	07-Jul-15	BRIDGETON BOREHOLE 3	241109.117	
722034.629	4294285.05	9156	07-Jul-15	BRIDGETON BOREHOLE 3	241943.7791	
722033.374	4294286.886	9166	07-Jul-15	BRIDGETON BOREHOLE 3	241989.725	
722032.369	4294286.428	9168	07-Jul-15	BRIDGETON BOREHOLE 3	241935.8571	
722033.074	4294293.18	9182	07-Jul-15	BRIDGETON BOREHOLE 3	241127.245	
722031.837	4294286.637	9183	07-Jul-15	BRIDGETON BOREHOLE 3	241933.868	
722033.308	4294287.005	9207	07-Jul-15	BRIDGETON BOREHOLE 3	241982.8879	
722030.987	4294292.192	9215	07-Jul-15	BRIDGETON BOREHOLE 3	241394.091	
722036.574	4294290.305	9216	07-Jul-15	BRIDGETON BOREHOLE 3	241322.231	
722012.672	4294298.391	9286	07-Jul-15	BRIDGETON BOREHOLE 3	241171.395	
722036.716	4294290.49	9288	07-Jul-15	BRIDGETON BOREHOLE 3	241342.03	
722034.371	4294286.203	9288	07-Jul-15	BRIDGETON BOREHOLE 3	241961.1	

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722015.317	4294299.412	9298	07-Jul-15	BRIDGETON BOREHOLE 3	241798.971	
722032.022	4294290.057	9304	07-Jul-15	BRIDGETON BOREHOLE 3	241376.185	
722039.951	4294283.334	9342	07-Jul-15	BRIDGETON BOREHOLE 3	241278.097	
722029.321	4294294.138	9372	07-Jul-15	BRIDGETON BOREHOLE 3	241496.242	
722032.868	4294287.101	9401	07-Jul-15	BRIDGETON BOREHOLE 3	241975.879	
722043.313	4294288.121	9404	07-Jul-15	BRIDGETON BOREHOLE 3	241107.111	
722029.007	4294293.665	9410	07-Jul-15	BRIDGETON BOREHOLE 3	241495.114	
722032.614	4294284.336	9414	07-Jul-15	BRIDGETON BOREHOLE 3	241082.101	
722035.864	4294286.295	9436	07-Jul-15	BRIDGETON BOREHOLE 3	241305.007	
722030.501	4294296.308	9438	07-Jul-15	BRIDGETON BOREHOLE 3	241500.896	
722032.551	4294287.907	9458	07-Jul-15	BRIDGETON BOREHOLE 3	241361.2	
722031.806	4294293.74	9509	07-Jul-15	BRIDGETON BOREHOLE 3	241130.3	
722033.3	4294286.904	9512	07-Jul-15	BRIDGETON BOREHOLE 3	241993.809	
722040.3	4294284.356	9517	07-Jul-15	BRIDGETON BOREHOLE 3	241281.343	
722036.991	4294290.968	9552	07-Jul-15	BRIDGETON BOREHOLE 3	241343.305	
722030.88	4294294.097	9564	07-Jul-15	BRIDGETON BOREHOLE 3	241132.221	
722042.61	4294285.442	9568	07-Jul-15	BRIDGETON BOREHOLE 3	241102.102	
722012.62	4294296.852	9581	07-Jul-15	BRIDGETON BOREHOLE 3	241845.049	
722042.835	4294288.416	9611	07-Jul-15	BRIDGETON BOREHOLE 3	241107.949	
722036.549	4294292.251	9634	07-Jul-15	BRIDGETON BOREHOLE 3	241346.272	
722041.584	4294284.294	9736	07-Jul-15	BRIDGETON BOREHOLE 3	241099.35	
722013.891	4294298.877	9767	07-Jul-15	BRIDGETON BOREHOLE 3	241839.974	
722032.224	4294294.095	9805	07-Jul-15	BRIDGETON BOREHOLE 3	241389.363	
722032.384	4294290.464	9826	07-Jul-15	BRIDGETON BOREHOLE 3	241377.093	
722031.586	4294289.576	9856	07-Jul-15	BRIDGETON BOREHOLE 3	241375.038	
722036.428	4294291.5	10127	07-Jul-15	BRIDGETON BOREHOLE 3	241120.375	
722086.697	4294233.302	4639	27-Apr-15	ENG BOR D1 D2 D3 D4.	132097.904	415
722091.381	4294240.826	4657	27-Apr-15	ENG BOR D1 D2 D3 D4.	132028.882	346
722087.308	4294231.592	4677	27-Apr-15	ENG BOR D1 D2 D3 D4.	132106.818	424
722022.516	4294290.682	4716	27-Apr-15	ENG BOR D1 D2 D3 D4.	132414.603	516
722022.449	4294290.89	4718	27-Apr-15	ENG BOR D1 D2 D3 D4.	132413.536	515
722088.247	4294238.276	4742	27-Apr-15	ENG BOR D1 D2 D3 D4.	131892.039	209
722088.21	4294238.19	4743	27-Apr-15	ENG BOR D1 D2 D3 D4.	131774.899	92
722023.061	4294287.58	4764	27-Apr-15	ENG BOR D1 D2 D3 D4.	132621.664	723
722022.046	4294287.085	4786	27-Apr-15	ENG BOR D1 D2 D3 D4.	132679.61	781
722023.391	4294287.697	4798	27-Apr-15	ENG BOR D1 D2 D3 D4.	132471.82	573
722089.746	4294240.127	4813	27-Apr-15	ENG BOR D1 D2 D3 D4.	132051.917	369
722088.31	4294238.305	4824	27-Apr-15	ENG BOR D1 D2 D3 D4.	131939.855	257
722086.339	4294233.637	4834	27-Apr-15	ENG BOR D1 D2 D3 D4.	132096.864	414
722087.939	4294238.825	4846	27-Apr-15	ENG BOR D1 D2 D3 D4.	131694.036	11
722088.202	4294238.185	4859	27-Apr-15	ENG BOR D1 D2 D3 D4.	131774.126	91
722022.75	4294287.068	4862	27-Apr-15	ENG BOR D1 D2 D3 D4.	132622.684	724
722085.853	4294233.851	4882	27-Apr-15	ENG BOR D1 D2 D3 D4.	132094.638	412
722086.411	4294232.505	4888	27-Apr-15	ENG BOR D1 D2 D3 D4.	132113.908	443
722087.102	4294231.681	4903	27-Apr-15	ENG BOR D1 D2 D3 D4.	132107.863	425
722088.27	4294238.277	4912	27-Apr-15	ENG BOR D1 D2 D3 D4.	131896.029	213
722087.951	4294238.814	4919	27-Apr-15	ENG BOR D1 D2 D3 D4.	131708.874	26

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722088.255	4294238.25	4924	27-Apr-15	ENG BOR D1 D2 D3 D4.	131925.863	243
722087.523	4294231.282	4942	27-Apr-15	ENG BOR D1 D2 D3 D4.	132106.042	423
722087.085	4294231.699	4948	27-Apr-15	ENG BOR D1 D2 D3 D4.	132108.905	426
722087.963	4294238.792	4956	27-Apr-15	ENG BOR D1 D2 D3 D4.	131734.074	51
722091.05	4294240.697	4959	27-Apr-15	ENG BOR D1 D2 D3 D4.	132029.899	347
722087.948	4294238.804	4965	27-Apr-15	ENG BOR D1 D2 D3 D4.	131706.158	23
722088.269	4294238.323	4970	27-Apr-15	ENG BOR D1 D2 D3 D4.	131898.79	216
722088.251	4294238.312	4982	27-Apr-15	ENG BOR D1 D2 D3 D4.	131897.769	215
722087.99	4294238.533	4987	27-Apr-15	ENG BOR D1 D2 D3 D4.	131953.727	271
722091.89	4294239.641	4987	27-Apr-15	ENG BOR D1 D2 D3 D4.	132000.802	318
722091.446	4294239.18	4987	27-Apr-15	ENG BOR D1 D2 D3 D4.	132001.911	319
722020.61	4294288	4990	27-Apr-15	ENG BOR D1 D2 D3 D4.	132684.68	786
722086.77	4294232.227	4991	27-Apr-15	ENG BOR D1 D2 D3 D4.	132111.811	429
722021.724	4294287.196	4994	27-Apr-15	ENG BOR D1 D2 D3 D4.	132680.654	782
722088.245	4294238.255	4995	27-Apr-15	ENG BOR D1 D2 D3 D4.	131924.66	242
722089.362	4294239.665	4997	27-Apr-15	ENG BOR D1 D2 D3 D4.	132050.846	368
722088.725	4294235.32	5002	27-Apr-15	ENG BOR D1 D2 D3 D4.	132010.551	328
722020.263	4294288.224	5004	27-Apr-15	ENG BOR D1 D2 D3 D4.	132685.439	787
722087.951	4294238.803	5009	27-Apr-15	ENG BOR D1 D2 D3 D4.	131702.761	20
722087.075	4294231.816	5010	27-Apr-15	ENG BOR D1 D2 D3 D4.	132110.047	427
722087.965	4294238.785	5016	27-Apr-15	ENG BOR D1 D2 D3 D4.	131723.816	41
722087.986	4294234.938	5027	27-Apr-15	ENG BOR D1 D2 D3 D4.	131984.673	302
722088.365	4294231.709	5028	27-Apr-15	ENG BOR D1 D2 D3 D4.	132103.789	421
722022.48	4294287.084	5028	27-Apr-15	ENG BOR D1 D2 D3 D4.	132678.519	780
722088.778	4294239.183	5030	27-Apr-15	ENG BOR D1 D2 D3 D4.	132049.792	367
722088.176	4294238.204	5031	27-Apr-15	ENG BOR D1 D2 D3 D4.	131791.861	109
722088.597	4294235.438	5032	27-Apr-15	ENG BOR D1 D2 D3 D4.	131986.013	303
722088.272	4294238.263	5039	27-Apr-15	ENG BOR D1 D2 D3 D4.	131894.939	212
722088.229	4294238.246	5046	27-Apr-15	ENG BOR D1 D2 D3 D4.	131870.002	187
722020.65	4294290.976	5053	27-Apr-15	ENG BOR D1 D2 D3 D4.	132602.509	704
722021.477	4294289.334	5056	27-Apr-15	ENG BOR D1 D2 D3 D4.	132617.704	719
722021.115	4294287.675	5057	27-Apr-15	ENG BOR D1 D2 D3 D4.	132683.514	785
722088.249	4294238.271	5060	27-Apr-15	ENG BOR D1 D2 D3 D4.	131892.838	210
722088.247	4294238.244	5064	27-Apr-15	ENG BOR D1 D2 D3 D4.	131868.9	186
722088.26	4294238.309	5064	27-Apr-15	ENG BOR D1 D2 D3 D4.	131908.667	226
722020.734	4294290.993	5064	27-Apr-15	ENG BOR D1 D2 D3 D4.	132601.646	703
722087.233	4294237.881	5079	27-Apr-15	ENG BOR D1 D2 D3 D4.	132046.855	364
722091.089	4294238.724	5085	27-Apr-15	ENG BOR D1 D2 D3 D4.	132002.961	320
722024.612	4294287.622	5087	27-Apr-15	ENG BOR D1 D2 D3 D4.	132477.57	579
722087.946	4294238.818	5088	27-Apr-15	ENG BOR D1 D2 D3 D4.	131694.829	12
722088.894	4294235.775	5088	27-Apr-15	ENG BOR D1 D2 D3 D4.	131986.671	304
722088.004	4294238.532	5090	27-Apr-15	ENG BOR D1 D2 D3 D4.	131950.755	268
722090.554	4294238.012	5094	27-Apr-15	ENG BOR D1 D2 D3 D4.	132004.854	322
722088.303	4294238.303	5097	27-Apr-15	ENG BOR D1 D2 D3 D4.	131938.769	256
722086.12	4294233.842	5101	27-Apr-15	ENG BOR D1 D2 D3 D4.	132095.751	413
722086.924	4294231.976	5108	27-Apr-15	ENG BOR D1 D2 D3 D4.	132110.827	428
722088.251	4294238.318	5110	27-Apr-15	ENG BOR D1 D2 D3 D4.	131907.862	225

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722084.177	4294235.951	5110	27-Apr-15	ENG BOR D1 D2 D3 D4.	132064.788	382
722088.319	4294238.299	5111	27-Apr-15	ENG BOR D1 D2 D3 D4.	131941.888	259
722090.279	4294239.383	5111	27-Apr-15	ENG BOR D1 D2 D3 D4.	132024.869	342
722089.22	4294239.87	5111	27-Apr-15	ENG BOR D1 D2 D3 D4.	132054.006	371
722088.212	4294238.198	5120	27-Apr-15	ENG BOR D1 D2 D3 D4.	131775.919	93
722088.248	4294238.265	5120	27-Apr-15	ENG BOR D1 D2 D3 D4.	131923.863	241
722088.273	4294238.242	5124	27-Apr-15	ENG BOR D1 D2 D3 D4.	131930.91	248
722088.261	4294238.324	5126	27-Apr-15	ENG BOR D1 D2 D3 D4.	131903.865	221
722024.629	4294288.253	5126	27-Apr-15	ENG BOR D1 D2 D3 D4.	132478.814	580
722023.095	4294287.94	5130	27-Apr-15	ENG BOR D1 D2 D3 D4.	132470.73	572
722088.184	4294238.201	5135	27-Apr-15	ENG BOR D1 D2 D3 D4.	131794.056	111
722087.961	4294238.782	5136	27-Apr-15	ENG BOR D1 D2 D3 D4.	131736.839	54
722088.298	4294234.508	5139	27-Apr-15	ENG BOR D1 D2 D3 D4.	132011.877	329
722088.254	4294238.267	5142	27-Apr-15	ENG BOR D1 D2 D3 D4.	131922.874	240
722088.177	4294238.2	5143	27-Apr-15	ENG BOR D1 D2 D3 D4.	131790.823	108
722088.341	4294238.38	5144	27-Apr-15	ENG BOR D1 D2 D3 D4.	131947.873	265
722088.287	4294238.266	5145	27-Apr-15	ENG BOR D1 D2 D3 D4.	131946.859	264
722088.135	4294231.297	5146	27-Apr-15	ENG BOR D1 D2 D3 D4.	132104.855	422
722088.266	4294238.228	5147	27-Apr-15	ENG BOR D1 D2 D3 D4.	131871.869	189
722088.268	4294238.309	5147	27-Apr-15	ENG BOR D1 D2 D3 D4.	131905.689	223
722088.284	4294238.178	5151	27-Apr-15	ENG BOR D1 D2 D3 D4.	131854.881	172
722087.958	4294238.779	5159	27-Apr-15	ENG BOR D1 D2 D3 D4.	131721.882	39
722088.265	4294238.315	5163	27-Apr-15	ENG BOR D1 D2 D3 D4.	131904.659	222
722087.965	4294238.79	5171	27-Apr-15	ENG BOR D1 D2 D3 D4.	131733.057	50
722087.692	4294236.22	5174	27-Apr-15	ENG BOR D1 D2 D3 D4.	132038.822	356
722088.27	4294238.288	5178	27-Apr-15	ENG BOR D1 D2 D3 D4.	131896.68	214
722022.77	4294287.292	5179	27-Apr-15	ENG BOR D1 D2 D3 D4.	132677.666	779
722087.991	4294238.521	5181	27-Apr-15	ENG BOR D1 D2 D3 D4.	131951.846	269
722019.253	4294291.706	5182	27-Apr-15	ENG BOR D1 D2 D3 D4.	132639.658	741
722088.299	4294238.231	5185	27-Apr-15	ENG BOR D1 D2 D3 D4.	131853.665	171
722020.768	4294287.852	5185	27-Apr-15	ENG BOR D1 D2 D3 D4.	132626.656	728
722021.833	4294291.953	5186	27-Apr-15	ENG BOR D1 D2 D3 D4.	132564.652	666
722021.396	4294289.029	5194	27-Apr-15	ENG BOR D1 D2 D3 D4.	132465.729	567
722021.346	4294291.698	5194	27-Apr-15	ENG BOR D1 D2 D3 D4.	132998.443	1100
722088.259	4294238.246	5197	27-Apr-15	ENG BOR D1 D2 D3 D4.	131872.783	190
722088.255	4294238.275	5197	27-Apr-15	ENG BOR D1 D2 D3 D4.	131885.726	203
722086.914	4294233.111	5197	27-Apr-15	ENG BOR D1 D2 D3 D4.	132098.702	416
722088.28	4294238.266	5200	27-Apr-15	ENG BOR D1 D2 D3 D4.	131946.002	263
722091.259	4294240.634	5200	27-Apr-15	ENG BOR D1 D2 D3 D4.	132028.043	345
722085.118	4294234.44	5201	27-Apr-15	ENG BOR D1 D2 D3 D4.	132092.784	410
722086.115	4294236.459	5202	27-Apr-15	ENG BOR D1 D2 D3 D4.	132044.45	362
722088.193	4294238.661	5203	27-Apr-15	ENG BOR D1 D2 D3 D4.	131771.875	89
722088.256	4294238.321	5205	27-Apr-15	ENG BOR D1 D2 D3 D4.	131906.789	224
722088.16	4294238.216	5207	27-Apr-15	ENG BOR D1 D2 D3 D4.	131848.675	166
722088.192	4294238.179	5208	27-Apr-15	ENG BOR D1 D2 D3 D4.	131796.03	113
722091.132	4294240.243	5217	27-Apr-15	ENG BOR D1 D2 D3 D4.	132026.871	344
722087.961	4294238.789	5218	27-Apr-15	ENG BOR D1 D2 D3 D4.	131734.645	52

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722084.374	4294237.066	5222	27-Apr-15	ENG BOR D1 D2 D3 D4.	132066.729	384
722086.672	4294232.274	5223	27-Apr-15	ENG BOR D1 D2 D3 D4.	132112.908	430
722024.489	4294287.389	5227	27-Apr-15	ENG BOR D1 D2 D3 D4.	132475.711	577
722087.948	4294238.823	5230	27-Apr-15	ENG BOR D1 D2 D3 D4.	131752.059	69
722020.589	4294290.16	5232	27-Apr-15	ENG BOR D1 D2 D3 D4.	132615.68	717
722088.312	4294238.306	5234	27-Apr-15	ENG BOR D1 D2 D3 D4.	131940.652	258
722088.184	4294238.168	5236	27-Apr-15	ENG BOR D1 D2 D3 D4.	131810.917	128
722088.258	4294238.264	5238	27-Apr-15	ENG BOR D1 D2 D3 D4.	131893.807	211
722087.959	4294238.803	5239	27-Apr-15	ENG BOR D1 D2 D3 D4.	131715.946	33
722087.99	4294238.523	5239	27-Apr-15	ENG BOR D1 D2 D3 D4.	131952.647	270
722088.208	4294238.202	5244	27-Apr-15	ENG BOR D1 D2 D3 D4.	131778.109	95
722089.918	4294235.278	5244	27-Apr-15	ENG BOR D1 D2 D3 D4.	131975.68	293
722084.033	4294236.544	5244	27-Apr-15	ENG BOR D1 D2 D3 D4.	132065.856	383
722023.062	4294287.719	5247	27-Apr-15	ENG BOR D1 D2 D3 D4.	132676.597	778
722021.574	4294287.324	5247	27-Apr-15	ENG BOR D1 D2 D3 D4.	132681.684	783
722088.212	4294238.409	5252	27-Apr-15	ENG BOR D1 D2 D3 D4.	131772.752	90
722021.763	4294291.478	5254	27-Apr-15	ENG BOR D1 D2 D3 D4.	132999.5389	1101
722088.164	4294238.218	5257	27-Apr-15	ENG BOR D1 D2 D3 D4.	131848.069	165
722088.301	4294238.258	5259	27-Apr-15	ENG BOR D1 D2 D3 D4.	131933.78	251
722088.009	4294236.434	5259	27-Apr-15	ENG BOR D1 D2 D3 D4.	132018.712	336
722088.317	4294238.303	5260	27-Apr-15	ENG BOR D1 D2 D3 D4.	131942.76	260
722019.802	4294288.484	5260	27-Apr-15	ENG BOR D1 D2 D3 D4.	132686.461	788
722088.257	4294238.329	5263	27-Apr-15	ENG BOR D1 D2 D3 D4.	131899.85	217
722088.063	4294238.752	5264	27-Apr-15	ENG BOR D1 D2 D3 D4.	131770.813	88
722085.525	4294234.139	5265	27-Apr-15	ENG BOR D1 D2 D3 D4.	132093.805	411
722087.954	4294238.807	5267	27-Apr-15	ENG BOR D1 D2 D3 D4.	131696.822	14
722087.69	4294232.962	5268	27-Apr-15	ENG BOR D1 D2 D3 D4.	131979.885	297
722021.054	4294289.756	5268	27-Apr-15	ENG BOR D1 D2 D3 D4.	132616.637	718
722087.931	4294238.813	5269	27-Apr-15	ENG BOR D1 D2 D3 D4.	131748.032	65
722089.541	4294238.366	5272	27-Apr-15	ENG BOR D1 D2 D3 D4.	132022.652	340
722089.663	4294240.265	5272	27-Apr-15	ENG BOR D1 D2 D3 D4.	132052.689	370
722087.957	4294238.787	5274	27-Apr-15	ENG BOR D1 D2 D3 D4.	131732.072	49
722088.128	4294238.144	5277	27-Apr-15	ENG BOR D1 D2 D3 D4.	131844.754	162
722090.797	4294238.422	5283	27-Apr-15	ENG BOR D1 D2 D3 D4.	132004.037	321
722086.755	4294235.134	5283	27-Apr-15	ENG BOR D1 D2 D3 D4.	132040.694	358
722087.881	4294232.356	5284	27-Apr-15	ENG BOR D1 D2 D3 D4.	132101.917	419
722022.696	4294288.245	5284	27-Apr-15	ENG BOR D1 D2 D3 D4.	132620.457	722
722088.274	4294238.292	5286	27-Apr-15	ENG BOR D1 D2 D3 D4.	131917.85	235
722087.985	4294238.537	5287	27-Apr-15	ENG BOR D1 D2 D3 D4.	131954.775	272
722022.123	4294291.256	5288	27-Apr-15	ENG BOR D1 D2 D3 D4.	133000.632	1102
722089.336	4294234.763	5289	27-Apr-15	ENG BOR D1 D2 D3 D4.	131976.723	294
722088.18	4294238.213	5290	27-Apr-15	ENG BOR D1 D2 D3 D4.	131793.003	110
722083.556	4294235.697	5290	27-Apr-15	ENG BOR D1 D2 D3 D4.	132088.852	406
722089.394	4294236.281	5292	27-Apr-15	ENG BOR D1 D2 D3 D4.	131987.765	305
722018.929	4294291.466	5293	27-Apr-15	ENG BOR D1 D2 D3 D4.	132638.598	740
722088.199	4294238.201	5296	27-Apr-15	ENG BOR D1 D2 D3 D4.	131780.057	97
722087.946	4294238.793	5297	27-Apr-15	ENG BOR D1 D2 D3 D4.	131766.059	83

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722088.267	4294238.295	5298	27-Apr-15	ENG BOR D1 D2 D3 D4.	131913.866	231
722088.277	4294238.287	5299	27-Apr-15	ENG BOR D1 D2 D3 D4.	131912.814	230
722088.192	4294238.124	5304	27-Apr-15	ENG BOR D1 D2 D3 D4.	131821.009	138
722087.961	4294238.771	5305	27-Apr-15	ENG BOR D1 D2 D3 D4.	131736.036	53
722088.288	4294238.251	5310	27-Apr-15	ENG BOR D1 D2 D3 D4.	131932.657	250
722087.348	4294235.5	5312	27-Apr-15	ENG BOR D1 D2 D3 D4.	132016.827	334
722088.076	4294232.078	5312	27-Apr-15	ENG BOR D1 D2 D3 D4.	132102.716	420
722087.964	4294238.797	5313	27-Apr-15	ENG BOR D1 D2 D3 D4.	131738.81	56
722089.849	4294238.85	5313	27-Apr-15	ENG BOR D1 D2 D3 D4.	132023.672	341
722018.541	4294289.865	5313	27-Apr-15	ENG BOR D1 D2 D3 D4.	132633.739	735
722087.966	4294238.781	5317	27-Apr-15	ENG BOR D1 D2 D3 D4.	131723.039	40
722018.914	4294290.604	5318	27-Apr-15	ENG BOR D1 D2 D3 D4.	132692.605	794
722087.959	4294238.828	5321	27-Apr-15	ENG BOR D1 D2 D3 D4.	131713.905	31
722018.833	4294291.058	5321	27-Apr-15	ENG BOR D1 D2 D3 D4.	132612.559	714
722020.759	4294290.997	5323	27-Apr-15	ENG BOR D1 D2 D3 D4.	132600.702	702
722088.102	4294238.151	5327	27-Apr-15	ENG BOR D1 D2 D3 D4.	131838.738	156
722019.976	4294290.569	5329	27-Apr-15	ENG BOR D1 D2 D3 D4.	132614.564	716
722087.953	4294238.825	5331	27-Apr-15	ENG BOR D1 D2 D3 D4.	131710.955	28
722088.179	4294238.151	5331	27-Apr-15	ENG BOR D1 D2 D3 D4.	131814.002	131
722091.897	4294239.34	5332	27-Apr-15	ENG BOR D1 D2 D3 D4.	131993.9	311
722092.164	4294240.038	5332	27-Apr-15	ENG BOR D1 D2 D3 D4.	132000.028	317
722022.735	4294288.193	5333	27-Apr-15	ENG BOR D1 D2 D3 D4.	132469.502	571
722087.722	4294236.039	5336	27-Apr-15	ENG BOR D1 D2 D3 D4.	132017.883	335
722088.258	4294238.28	5338	27-Apr-15	ENG BOR D1 D2 D3 D4.	131919.646	237
722088.29	4294238.291	5341	27-Apr-15	ENG BOR D1 D2 D3 D4.	131911.686	229
722092.693	4294240.375	5346	27-Apr-15	ENG BOR D1 D2 D3 D4.	131995.796	313
722021.913	4294288.977	5349	27-Apr-15	ENG BOR D1 D2 D3 D4.	132618.714	720
722088.255	4294238.238	5351	27-Apr-15	ENG BOR D1 D2 D3 D4.	131870.8	188
722021.426	4294287.481	5351	27-Apr-15	ENG BOR D1 D2 D3 D4.	132682.566	784
722017.99	4294290.529	5352	27-Apr-15	ENG BOR D1 D2 D3 D4.	132635.654	737
722083.851	4294235.356	5353	27-Apr-15	ENG BOR D1 D2 D3 D4.	132089.901	407
722088.263	4294238.327	5354	27-Apr-15	ENG BOR D1 D2 D3 D4.	131902.804	220
722087.919	4294238.858	5355	27-Apr-15	ENG BOR D1 D2 D3 D4.	131746.895	64
722085.815	4294235.992	5355	27-Apr-15	ENG BOR D1 D2 D3 D4.	132043.71	361
722021.765	4294290.188	5358	27-Apr-15	ENG BOR D1 D2 D3 D4.	133003.528	1105
722088.157	4294238.162	5359	27-Apr-15	ENG BOR D1 D2 D3 D4.	131860.002	177
722024.296	4294287.399	5360	27-Apr-15	ENG BOR D1 D2 D3 D4.	132474.595	576
722084.166	4294236.507	5366	27-Apr-15	ENG BOR D1 D2 D3 D4.	132086.697	404
722088.232	4294238.177	5367	27-Apr-15	ENG BOR D1 D2 D3 D4.	131828.122	145
722020.896	4294289.201	5367	27-Apr-15	ENG BOR D1 D2 D3 D4.	132464.68	566
722087.257	4294232.887	5371	27-Apr-15	ENG BOR D1 D2 D3 D4.	131980.659	298
722087.95	4294238.795	5374	27-Apr-15	ENG BOR D1 D2 D3 D4.	131704.77	22
722088.28	4294238.25	5375	27-Apr-15	ENG BOR D1 D2 D3 D4.	131880.007	197
722017.783	4294293.148	5375	27-Apr-15	ENG BOR D1 D2 D3 D4.	132991.5031	1093
722088.193	4294238.199	5379	27-Apr-15	ENG BOR D1 D2 D3 D4.	131780.812	98
722088.124	4294238.146	5382	27-Apr-15	ENG BOR D1 D2 D3 D4.	131842.821	160
722088.292	4294238.202	5382	27-Apr-15	ENG BOR D1 D2 D3 D4.	131858.853	176

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722088.293	4294238.14	5388	27-Apr-15	ENG BOR D1 D2 D3 D4.	131855.955	173
722023.886	4294289.903	5388	27-Apr-15	ENG BOR D1 D2 D3 D4.	132583.688	685
722087.954	4294238.8	5389	27-Apr-15	ENG BOR D1 D2 D3 D4.	131739.721	57
722023.84	4294290.135	5389	27-Apr-15	ENG BOR D1 D2 D3 D4.	132434.601	536
722088.193	4294238.193	5393	27-Apr-15	ENG BOR D1 D2 D3 D4.	131794.811	112
722084.575	4294234.823	5394	27-Apr-15	ENG BOR D1 D2 D3 D4.	132091.66	409
722019.821	4294288.911	5396	27-Apr-15	ENG BOR D1 D2 D3 D4.	132629.609	731
722018.255	4294290.081	5396	27-Apr-15	ENG BOR D1 D2 D3 D4.	132634.601	736
722019.599	4294291.31	5399	27-Apr-15	ENG BOR D1 D2 D3 D4.	132694.452	796
722088.159	4294238.214	5400	27-Apr-15	ENG BOR D1 D2 D3 D4.	131847.063	164
722090.846	4294240.308	5400	27-Apr-15	ENG BOR D1 D2 D3 D4.	132030.746	348
722087.959	4294238.815	5408	27-Apr-15	ENG BOR D1 D2 D3 D4.	131714.911	32
722020.761	4294291.014	5409	27-Apr-15	ENG BOR D1 D2 D3 D4.	132595.607	697
722088.258	4294238.268	5411	27-Apr-15	ENG BOR D1 D2 D3 D4.	131877.851	195
722088.266	4294238.295	5413	27-Apr-15	ENG BOR D1 D2 D3 D4.	131886.658	204
722086.893	4294237.455	5416	27-Apr-15	ENG BOR D1 D2 D3 D4.	132046.092	363
722083.728	4294236.096	5418	27-Apr-15	ENG BOR D1 D2 D3 D4.	132087.801	405
722087.939	4294238.81	5423	27-Apr-15	ENG BOR D1 D2 D3 D4.	131756.893	74
722087.942	4294238.795	5424	27-Apr-15	ENG BOR D1 D2 D3 D4.	131749.094	66
722022.343	4294291.345	5424	27-Apr-15	ENG BOR D1 D2 D3 D4.	132390.593	492
722019.635	4294292.008	5427	27-Apr-15	ENG BOR D1 D2 D3 D4.	132640.703	742
722022.346	4294291.345	5430	27-Apr-15	ENG BOR D1 D2 D3 D4.	132389.705	491
722092.721	4294239.432	5432	27-Apr-15	ENG BOR D1 D2 D3 D4.	131967.708	285
722023.498	4294290.333	5434	27-Apr-15	ENG BOR D1 D2 D3 D4.	132433.759	535
722088.259	4294238.259	5436	27-Apr-15	ENG BOR D1 D2 D3 D4.	131878.877	196
722022.526	4294288.374	5441	27-Apr-15	ENG BOR D1 D2 D3 D4.	132468.734	570
722088.172	4294238.184	5443	27-Apr-15	ENG BOR D1 D2 D3 D4.	131809.853	127
722018.348	4294291.305	5445	27-Apr-15	ENG BOR D1 D2 D3 D4.	132611.453	713
722087.962	4294238.796	5446	27-Apr-15	ENG BOR D1 D2 D3 D4.	131738.054	55
722087.502	4294232.65	5448	27-Apr-15	ENG BOR D1 D2 D3 D4.	132100.846	418
722018.16	4294291.043	5448	27-Apr-15	ENG BOR D1 D2 D3 D4.	132636.748	738
722088.254	4294238.255	5451	27-Apr-15	ENG BOR D1 D2 D3 D4.	131873.796	191
722088.182	4294238.131	5452	27-Apr-15	ENG BOR D1 D2 D3 D4.	131824.912	142
722087.949	4294238.837	5453	27-Apr-15	ENG BOR D1 D2 D3 D4.	131688.901	6
722088.298	4294238.296	5455	27-Apr-15	ENG BOR D1 D2 D3 D4.	131910.852	228
722086.407	4294238.187	5456	27-Apr-15	ENG BOR D1 D2 D3 D4.	132080.859	398
722087.952	4294238.811	5457	27-Apr-15	ENG BOR D1 D2 D3 D4.	131696.038	13
722088.251	4294238.284	5457	27-Apr-15	ENG BOR D1 D2 D3 D4.	131890.861	208
722084.844	4294235.913	5458	27-Apr-15	ENG BOR D1 D2 D3 D4.	132063.671	381
722019.392	4294290.81	5460	27-Apr-15	ENG BOR D1 D2 D3 D4.	132613.654	715
722090.653	4294239.799	5462	27-Apr-15	ENG BOR D1 D2 D3 D4.	132025.862	343
722024.093	4294287.411	5462	27-Apr-15	ENG BOR D1 D2 D3 D4.	132473.829	575
722088.243	4294238.214	5463	27-Apr-15	ENG BOR D1 D2 D3 D4.	131866.762	184
722088.265	4294238.284	5463	27-Apr-15	ENG BOR D1 D2 D3 D4.	131918.91	236
722088.206	4294238.178	5465	27-Apr-15	ENG BOR D1 D2 D3 D4.	131796.823	114
722021.357	4294290.185	5466	27-Apr-15	ENG BOR D1 D2 D3 D4.	133004.3459	1106
722089.918	4294241.294	5467	27-Apr-15	ENG BOR D1 D2 D3 D4.	131961.876	279

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722021.163	4294287.535	5471	27-Apr-15	ENG BOR D1 D2 D3 D4.	132625.621	727
722087.804	4294238.262	5474	27-Apr-15	ENG BOR D1 D2 D3 D4.	132047.941	365
722088.242	4294236.767	5478	27-Apr-15	ENG BOR D1 D2 D3 D4.	132037.896	355
722088.195	4294238.144	5479	27-Apr-15	ENG BOR D1 D2 D3 D4.	131818.651	136
722089.332	4294238.013	5479	27-Apr-15	ENG BOR D1 D2 D3 D4.	132021.918	339
722022.611	4294290.667	5480	27-Apr-15	ENG BOR D1 D2 D3 D4.	132420.684	522
722020.036	4294292.381	5483	27-Apr-15	ENG BOR D1 D2 D3 D4.	132641.79	743
722087.967	4294234.129	5485	27-Apr-15	ENG BOR D1 D2 D3 D4.	132012.659	330
722022.368	4294291.342	5485	27-Apr-15	ENG BOR D1 D2 D3 D4.	132371.676	473
722088.298	4294238.293	5486	27-Apr-15	ENG BOR D1 D2 D3 D4.	131943.85	261
722023.309	4294290.56	5487	27-Apr-15	ENG BOR D1 D2 D3 D4.	132432.673	534
722087.95	4294238.789	5488	27-Apr-15	ENG BOR D1 D2 D3 D4.	131703.873	21
722088.285	4294238.142	5488	27-Apr-15	ENG BOR D1 D2 D3 D4.	131857.859	175
722088.259	4294238.27	5489	27-Apr-15	ENG BOR D1 D2 D3 D4.	131922.09	239
722023.414	4294290.117	5490	27-Apr-15	ENG BOR D1 D2 D3 D4.	132584.644	686
722088.265	4294238.296	5491	27-Apr-15	ENG BOR D1 D2 D3 D4.	131916.649	234
722087.947	4294238.83	5492	27-Apr-15	ENG BOR D1 D2 D3 D4.	131752.862	70
722088.926	4294239.582	5492	27-Apr-15	ENG BOR D1 D2 D3 D4.	132054.793	372
722087.951	4294238.802	5493	27-Apr-15	ENG BOR D1 D2 D3 D4.	131706.95	24
722087.945	4294238.852	5494	27-Apr-15	ENG BOR D1 D2 D3 D4.	131687.925	5
722088.246	4294238.228	5495	27-Apr-15	ENG BOR D1 D2 D3 D4.	131868.14	185
722088.253	4294238.336	5495	27-Apr-15	ENG BOR D1 D2 D3 D4.	131900.661	218
722088.8	4294234.116	5495	27-Apr-15	ENG BOR D1 D2 D3 D4.	131978.025	295
722018.534	4294289.389	5499	27-Apr-15	ENG BOR D1 D2 D3 D4.	132689.615	791
722087.954	4294238.818	5504	27-Apr-15	ENG BOR D1 D2 D3 D4.	131709.911	27
722087.939	4294238.802	5505	27-Apr-15	ENG BOR D1 D2 D3 D4.	131763.851	81
722087.952	4294238.803	5506	27-Apr-15	ENG BOR D1 D2 D3 D4.	131740.807	58
722023.602	4294288.741	5508	27-Apr-15	ENG BOR D1 D2 D3 D4.	132674.62	776
722022.514	4294290.629	5510	27-Apr-15	ENG BOR D1 D2 D3 D4.	132415.656	517
722088.205	4294238.19	5511	27-Apr-15	ENG BOR D1 D2 D3 D4.	131805.68	123
722022.342	4294288.56	5513	27-Apr-15	ENG BOR D1 D2 D3 D4.	132619.699	721
722088.419	4294236.901	5515	27-Apr-15	ENG BOR D1 D2 D3 D4.	132019.706	337
722021.015	4294291.883	5515	27-Apr-15	ENG BOR D1 D2 D3 D4.	132997.656	1099
722088.102	4294238.148	5516	27-Apr-15	ENG BOR D1 D2 D3 D4.	131841.003	158
722023.105	4294290.788	5516	27-Apr-15	ENG BOR D1 D2 D3 D4.	132431.6	533
722018.617	4294291.351	5517	27-Apr-15	ENG BOR D1 D2 D3 D4.	132637.844	739
722087.957	4294238.805	5520	27-Apr-15	ENG BOR D1 D2 D3 D4.	131697.848	15
722087.957	4294238.805	5520	27-Apr-15	ENG BOR D1 D2 D3 D4.	131741.939	59
722090.209	4294237.579	5520	27-Apr-15	ENG BOR D1 D2 D3 D4.	132005.856	323
722087.667	4294239.309	5520	27-Apr-15	ENG BOR D1 D2 D3 D4.	132078.649	396
722085.695	4294238.486	5523	27-Apr-15	ENG BOR D1 D2 D3 D4.	132069.874	387
722087.942	4294238.808	5525	27-Apr-15	ENG BOR D1 D2 D3 D4.	131750.953	68
722088.182	4294238.144	5526	27-Apr-15	ENG BOR D1 D2 D3 D4.	131814.76	132
722087.086	4294238.652	5527	27-Apr-15	ENG BOR D1 D2 D3 D4.	132079.77	397
722085.858	4294237.894	5529	27-Apr-15	ENG BOR D1 D2 D3 D4.	132081.91	399
721973.992	4294343.584	5531	27-Apr-15	ENG BOR D1 D2 D3 D4.	133149.401	1251
722088.117	4294238.14	5532	27-Apr-15	ENG BOR D1 D2 D3 D4.	131832.814	150

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722086.907	4294233.558	5533	27-Apr-15	ENG BOR D1 D2 D3 D4.	131981.921	299
722087.95	4294238.788	5535	27-Apr-15	ENG BOR D1 D2 D3 D4.	131730.895	48
722020.062	4294289.637	5538	27-Apr-15	ENG BOR D1 D2 D3 D4.	132462.72	564
722088.104	4294238.145	5539	27-Apr-15	ENG BOR D1 D2 D3 D4.	131839.816	157
722087.954	4294238.835	5540	27-Apr-15	ENG BOR D1 D2 D3 D4.	131712.855	30
722088.293	4294238.245	5540	27-Apr-15	ENG BOR D1 D2 D3 D4.	131851.814	169
722088.256	4294238.276	5545	27-Apr-15	ENG BOR D1 D2 D3 D4.	131920.916	238
722088.213	4294238.125	5546	27-Apr-15	ENG BOR D1 D2 D3 D4.	131849.872	167
722087.957	4294239.776	5547	27-Apr-15	ENG BOR D1 D2 D3 D4.	132077.782	395
721974.749	4294344.37	5547	27-Apr-15	ENG BOR D1 D2 D3 D4.	132847.668	949
722018.52	4294290.225	5548	27-Apr-15	ENG BOR D1 D2 D3 D4.	132691.647	793
722088.2	4294238.137	5549	27-Apr-15	ENG BOR D1 D2 D3 D4.	131819.768	137
722088.258	4294238.244	5549	27-Apr-15	ENG BOR D1 D2 D3 D4.	131929.902	247
722088.254	4294238.164	5550	27-Apr-15	ENG BOR D1 D2 D3 D4.	131864.874	182
722089.965	4294237.279	5550	27-Apr-15	ENG BOR D1 D2 D3 D4.	132006.629	324
722088.183	4294238.207	5552	27-Apr-15	ENG BOR D1 D2 D3 D4.	131806.935	124
722088.179	4294238.202	5553	27-Apr-15	ENG BOR D1 D2 D3 D4.	131782.124	99
722022.329	4294291.344	5554	27-Apr-15	ENG BOR D1 D2 D3 D4.	132402.726	504
722088.106	4294238.159	5555	27-Apr-15	ENG BOR D1 D2 D3 D4.	131842.063	159
722087.936	4294238.806	5556	27-Apr-15	ENG BOR D1 D2 D3 D4.	131749.884	67
722088.227	4294238.456	5556	27-Apr-15	ENG BOR D1 D2 D3 D4.	131948.648	266
722014.795	4294293.369	5560	27-Apr-15	ENG BOR D1 D2 D3 D4.	133021.506	1123
722087.945	4294238.814	5561	27-Apr-15	ENG BOR D1 D2 D3 D4.	131762.754	80
722022.353	4294291.353	5562	27-Apr-15	ENG BOR D1 D2 D3 D4.	132366.594	468
722087.673	4294234.634	5563	27-Apr-15	ENG BOR D1 D2 D3 D4.	131983.91	301
722090.527	4294237.656	5563	27-Apr-15	ENG BOR D1 D2 D3 D4.	131990.681	308
722087.148	4294235.529	5565	27-Apr-15	ENG BOR D1 D2 D3 D4.	132039.926	357
722088.189	4294238.148	5570	27-Apr-15	ENG BOR D1 D2 D3 D4.	131812.057	129
722019.4	4294290.948	5571	27-Apr-15	ENG BOR D1 D2 D3 D4.	132693.633	795
722087.954	4294238.809	5572	27-Apr-15	ENG BOR D1 D2 D3 D4.	131702.19	19
722090.709	4294236.126	5572	27-Apr-15	ENG BOR D1 D2 D3 D4.	131974.029	291
722022.363	4294291.35	5572	27-Apr-15	ENG BOR D1 D2 D3 D4.	132384.658	486
722087.937	4294238.856	5573	27-Apr-15	ENG BOR D1 D2 D3 D4.	131746.093	63
722018.409	4294292.883	5573	27-Apr-15	ENG BOR D1 D2 D3 D4.	132992.478	1094
722085.694	4294235.277	5574	27-Apr-15	ENG BOR D1 D2 D3 D4.	132042.688	360
722088.205	4294238.199	5575	27-Apr-15	ENG BOR D1 D2 D3 D4.	131778.678	96
722019.526	4294289.277	5578	27-Apr-15	ENG BOR D1 D2 D3 D4.	132630.675	732
722088.288	4294238.293	5579	27-Apr-15	ENG BOR D1 D2 D3 D4.	131909.678	227
722016.347	4294292.157	5580	27-Apr-15	ENG BOR D1 D2 D3 D4.	133016.486	1118
721974.379	4294343.309	5580	27-Apr-15	ENG BOR D1 D2 D3 D4.	133148.4041	1250
722088.277	4294238.28	5582	27-Apr-15	ENG BOR D1 D2 D3 D4.	131890.084	207
722088.188	4294238.13	5586	27-Apr-15	ENG BOR D1 D2 D3 D4.	131821.9	139
722088.257	4294238.243	5586	27-Apr-15	ENG BOR D1 D2 D3 D4.	131928.881	246
721973.761	4294343.402	5586	27-Apr-15	ENG BOR D1 D2 D3 D4.	133150.396	1252
722088.179	4294238.207	5591	27-Apr-15	ENG BOR D1 D2 D3 D4.	131782.718	100
722088.208	4294238.164	5592	27-Apr-15	ENG BOR D1 D2 D3 D4.	131800.015	117
722020.762	4294291.019	5593	27-Apr-15	ENG BOR D1 D2 D3 D4.	132597.708	699

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722087.961	4294238.838	5595	27-Apr-15	ENG BOR D1 D2 D3 D4.	131690.052	7
722088.296	4294238.29	5595	27-Apr-15	ENG BOR D1 D2 D3 D4.	131937.684	255
722088.175	4294238.186	5597	27-Apr-15	ENG BOR D1 D2 D3 D4.	131790.056	107
722087.52	4294233.75	5598	27-Apr-15	ENG BOR D1 D2 D3 D4.	132013.685	331
722022.599	4294290.762	5598	27-Apr-15	ENG BOR D1 D2 D3 D4.	132423.66	525
722087.946	4294238.791	5601	27-Apr-15	ENG BOR D1 D2 D3 D4.	131729.781	47
722088.298	4294238.269	5601	27-Apr-15	ENG BOR D1 D2 D3 D4.	131881.827	199
722020.769	4294290.345	5602	27-Apr-15	ENG BOR D1 D2 D3 D4.	133005.438	1107
722019.293	4294291.619	5607	27-Apr-15	ENG BOR D1 D2 D3 D4.	132605.76	707
722022.315	4294290.87	5607	27-Apr-15	ENG BOR D1 D2 D3 D4.	133001.684	1103
722088.299	4294238.264	5610	27-Apr-15	ENG BOR D1 D2 D3 D4.	131882.977	200
722087.101	4294234.115	5610	27-Apr-15	ENG BOR D1 D2 D3 D4.	131982.819	300
722088.275	4294238.243	5616	27-Apr-15	ENG BOR D1 D2 D3 D4.	131884.016	201
722020.762	4294291.02	5616	27-Apr-15	ENG BOR D1 D2 D3 D4.	132594.513	696
722024.593	4294287.354	5618	27-Apr-15	ENG BOR D1 D2 D3 D4.	132476.697	578
722021.165	4294290.843	5622	27-Apr-15	ENG BOR D1 D2 D3 D4.	132589.683	691
722088.125	4294238.142	5624	27-Apr-15	ENG BOR D1 D2 D3 D4.	131833.872	151
722092.426	4294239.988	5624	27-Apr-15	ENG BOR D1 D2 D3 D4.	131995.033	312
722087.952	4294238.809	5625	27-Apr-15	ENG BOR D1 D2 D3 D4.	131708.089	25
722088.171	4294238.201	5626	27-Apr-15	ENG BOR D1 D2 D3 D4.	131786.855	104
722020.2	4294292.701	5627	27-Apr-15	ENG BOR D1 D2 D3 D4.	132696.708	798
722088.22	4294238.171	5628	27-Apr-15	ENG BOR D1 D2 D3 D4.	131801.813	119
722023.671	4294287.591	5631	27-Apr-15	ENG BOR D1 D2 D3 D4.	132472.659	574
722090.461	4294241.548	5633	27-Apr-15	ENG BOR D1 D2 D3 D4.	131962.66	280
722016.806	4294291.885	5635	27-Apr-15	ENG BOR D1 D2 D3 D4.	133014.47	1116
722091.095	4294241.452	5636	27-Apr-15	ENG BOR D1 D2 D3 D4.	131963.713	281
722022.366	4294291.329	5638	27-Apr-15	ENG BOR D1 D2 D3 D4.	132353.903	455
722087.934	4294238.835	5639	27-Apr-15	ENG BOR D1 D2 D3 D4.	131753.908	71
722088.178	4294238.132	5639	27-Apr-15	ENG BOR D1 D2 D3 D4.	131825.918	143
722087.959	4294238.806	5640	27-Apr-15	ENG BOR D1 D2 D3 D4.	131700.684	18
722089.663	4294236.877	5642	27-Apr-15	ENG BOR D1 D2 D3 D4.	132007.666	325
722088.184	4294238.142	5643	27-Apr-15	ENG BOR D1 D2 D3 D4.	131815.876	133
722088.263	4294238.27	5645	27-Apr-15	ENG BOR D1 D2 D3 D4.	131876.768	194
722021.534	4294290.762	5645	27-Apr-15	ENG BOR D1 D2 D3 D4.	132588.655	690
722023.989	4294289.406	5645	27-Apr-15	ENG BOR D1 D2 D3 D4.	132673.518	775
722088.267	4294238.247	5650	27-Apr-15	ENG BOR D1 D2 D3 D4.	131926.826	244
722091.751	4294240.923	5652	27-Apr-15	ENG BOR D1 D2 D3 D4.	131964.793	282
722022.366	4294291.355	5652	27-Apr-15	ENG BOR D1 D2 D3 D4.	132383.594	485
722086.255	4294234.913	5656	27-Apr-15	ENG BOR D1 D2 D3 D4.	132041.539	359
722086.174	4294238.859	5657	27-Apr-15	ENG BOR D1 D2 D3 D4.	132070.775	388
722019.522	4294290.714	5659	27-Apr-15	ENG BOR D1 D2 D3 D4.	133007.629	1109
722088.188	4294238.147	5660	27-Apr-15	ENG BOR D1 D2 D3 D4.	131817.854	135
722088.203	4294238.168	5662	27-Apr-15	ENG BOR D1 D2 D3 D4.	131798.937	116
722088.3	4294238.137	5663	27-Apr-15	ENG BOR D1 D2 D3 D4.	131856.744	174
722087.96	4294238.808	5667	27-Apr-15	ENG BOR D1 D2 D3 D4.	131700.122	17
722089.765	4294238.628	5667	27-Apr-15	ENG BOR D1 D2 D3 D4.	132034.641	352
722087.95	4294238.813	5668	27-Apr-15	ENG BOR D1 D2 D3 D4.	131757.919	75

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722087.946	4294238.811	5673	27-Apr-15	ENG BOR D1 D2 D3 D4.	131761.871	79
722088.308	4294238.258	5673	27-Apr-15	ENG BOR D1 D2 D3 D4.	131934.602	252
722085.297	4294238.116	5673	27-Apr-15	ENG BOR D1 D2 D3 D4.	132068.9	386
722088.887	4294237.418	5675	27-Apr-15	ENG BOR D1 D2 D3 D4.	132020.682	338
722020.394	4294288.216	5676	27-Apr-15	ENG BOR D1 D2 D3 D4.	132627.694	729
722016.201	4294292.915	5677	27-Apr-15	ENG BOR D1 D2 D3 D4.	133018.459	1120
722088.153	4294238.183	5678	27-Apr-15	ENG BOR D1 D2 D3 D4.	131831.062	148
722087.944	4294238.8	5684	27-Apr-15	ENG BOR D1 D2 D3 D4.	131764.951	82
722019.86	4294292.037	5684	27-Apr-15	ENG BOR D1 D2 D3 D4.	132695.669	797
722088.243	4294238.19	5686	27-Apr-15	ENG BOR D1 D2 D3 D4.	131865.719	183
722021.938	4294290.598	5686	27-Apr-15	ENG BOR D1 D2 D3 D4.	132587.606	689
722021.676	4294287.276	5687	27-Apr-15	ENG BOR D1 D2 D3 D4.	132624.597	726
722088.22	4294238.182	5690	27-Apr-15	ENG BOR D1 D2 D3 D4.	131804.024	121
722088.056	4294238.533	5690	27-Apr-15	ENG BOR D1 D2 D3 D4.	131949.685	267
722022.358	4294291.352	5695	27-Apr-15	ENG BOR D1 D2 D3 D4.	132360.626	462
722084.152	4294235.095	5696	27-Apr-15	ENG BOR D1 D2 D3 D4.	132090.753	408
722092.497	4294239.961	5697	27-Apr-15	ENG BOR D1 D2 D3 D4.	131966.646	284
722087.948	4294238.823	5699	27-Apr-15	ENG BOR D1 D2 D3 D4.	131760.061	77
722020.509	4294289.415	5702	27-Apr-15	ENG BOR D1 D2 D3 D4.	132463.847	565
722025.312	4294290.004	5702	27-Apr-15	ENG BOR D1 D2 D3 D4.	132481.604	583
722017.252	4294293.412	5702	27-Apr-15	ENG BOR D1 D2 D3 D4.	132990.554	1092
722090.161	4294237.277	5703	27-Apr-15	ENG BOR D1 D2 D3 D4.	131989.904	307
722022.334	4294291.348	5703	27-Apr-15	ENG BOR D1 D2 D3 D4.	132398.68	500
722018.368	4294289.787	5703	27-Apr-15	ENG BOR D1 D2 D3 D4.	132690.614	792
722017.887	4294291.472	5708	27-Apr-15	ENG BOR D1 D2 D3 D4.	133011.408	1113
722088.086	4294238.13	5710	27-Apr-15	ENG BOR D1 D2 D3 D4.	131836.815	154
722088.217	4294238.212	5711	27-Apr-15	ENG BOR D1 D2 D3 D4.	131828.877	146
722087.058	4294234.958	5711	27-Apr-15	ENG BOR D1 D2 D3 D4.	132016.037	333
722088.728	4294237.302	5713	27-Apr-15	ENG BOR D1 D2 D3 D4.	132036.94	354
722088.39	4294239.137	5714	27-Apr-15	ENG BOR D1 D2 D3 D4.	132055.855	373
722088.175	4294238.129	5715	27-Apr-15	ENG BOR D1 D2 D3 D4.	131826.937	144
722089.091	4294237.858	5715	27-Apr-15	ENG BOR D1 D2 D3 D4.	132036.11	353
722088.188	4294238.147	5717	27-Apr-15	ENG BOR D1 D2 D3 D4.	131816.982	134
722016.286	4294292.504	5718	27-Apr-15	ENG BOR D1 D2 D3 D4.	133017.462	1119
722087.955	4294238.826	5719	27-Apr-15	ENG BOR D1 D2 D3 D4.	131718.94	36
722088.276	4294238.294	5722	27-Apr-15	ENG BOR D1 D2 D3 D4.	131887.877	205
722088.097	4294238.154	5724	27-Apr-15	ENG BOR D1 D2 D3 D4.	131837.875	155
722088.216	4294238.166	5725	27-Apr-15	ENG BOR D1 D2 D3 D4.	131800.793	118
722024.737	4294288.92	5726	27-Apr-15	ENG BOR D1 D2 D3 D4.	132479.847	581
722087.958	4294238.828	5727	27-Apr-15	ENG BOR D1 D2 D3 D4.	131690.807	8
722084.479	4294236.807	5727	27-Apr-15	ENG BOR D1 D2 D3 D4.	132085.92	403
722088.146	4294238.181	5729	27-Apr-15	ENG BOR D1 D2 D3 D4.	131832.056	149
722088.263	4294238.266	5730	27-Apr-15	ENG BOR D1 D2 D3 D4.	131875.853	193
722090.625	4294239.735	5730	27-Apr-15	ENG BOR D1 D2 D3 D4.	132031.91	349
722022.335	4294291.34	5730	27-Apr-15	ENG BOR D1 D2 D3 D4.	132397.636	499
722088.286	4294238.258	5731	27-Apr-15	ENG BOR D1 D2 D3 D4.	131880.651	198
722022.344	4294291.34	5736	27-Apr-15	ENG BOR D1 D2 D3 D4.	132391.677	493

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722088.125	4294238.144	5742	27-Apr-15	ENG BOR D1 D2 D3 D4.	131843.94	161
722087.927	4294238.828	5744	27-Apr-15	ENG BOR D1 D2 D3 D4.	131755.029	72
722088.264	4294238.24	5746	27-Apr-15	ENG BOR D1 D2 D3 D4.	131884.619	202
722087.955	4294238.818	5749	27-Apr-15	ENG BOR D1 D2 D3 D4.	131691.983	9
722087.955	4294238.803	5752	27-Apr-15	ENG BOR D1 D2 D3 D4.	131743.02	60
722088.177	4294238.655	5756	27-Apr-15	ENG BOR D1 D2 D3 D4.	132048.709	366
722089.255	4294240.748	5760	27-Apr-15	ENG BOR D1 D2 D3 D4.	131960.778	278
722024.344	4294291.025	5760	27-Apr-15	ENG BOR D1 D2 D3 D4.	132569.598	671
721974.892	4294344.076	5760	27-Apr-15	ENG BOR D1 D2 D3 D4.	132848.401	950
722088.09	4294238.126	5765	27-Apr-15	ENG BOR D1 D2 D3 D4.	131836.057	153
722086.993	4294233.954	5766	27-Apr-15	ENG BOR D1 D2 D3 D4.	132014.784	332
722089.82	4294236.792	5767	27-Apr-15	ENG BOR D1 D2 D3 D4.	131988.87	306
722087.331	4294238.187	5768	27-Apr-15	ENG BOR D1 D2 D3 D4.	132057.855	375
722022.365	4294291.351	5768	27-Apr-15	ENG BOR D1 D2 D3 D4.	132382.683	484
722088.254	4294238.143	5773	27-Apr-15	ENG BOR D1 D2 D3 D4.	131864.118	181
722087.947	4294238.84	5774	27-Apr-15	ENG BOR D1 D2 D3 D4.	131711.789	29
722088.083	4294238.124	5774	27-Apr-15	ENG BOR D1 D2 D3 D4.	131834.986	152
722088.29	4294238.266	5774	27-Apr-15	ENG BOR D1 D2 D3 D4.	131936.651	254
722022.353	4294291.352	5774	27-Apr-15	ENG BOR D1 D2 D3 D4.	132385.765	487
722018.93	4294289.708	5778	27-Apr-15	ENG BOR D1 D2 D3 D4.	132632.594	734
722020.141	4294288.515	5780	27-Apr-15	ENG BOR D1 D2 D3 D4.	132628.491	730
722024.393	4294289.989	5783	27-Apr-15	ENG BOR D1 D2 D3 D4.	132672.451	774
722087.953	4294238.817	5786	27-Apr-15	ENG BOR D1 D2 D3 D4.	131717.816	35
722022.361	4294291.347	5791	27-Apr-15	ENG BOR D1 D2 D3 D4.	132359.787	461
722022.362	4294291.35	5803	27-Apr-15	ENG BOR D1 D2 D3 D4.	132358.785	460
722088.193	4294238.13	5804	27-Apr-15	ENG BOR D1 D2 D3 D4.	131822.701	140
722092.923	4294240.802	5804	27-Apr-15	ENG BOR D1 D2 D3 D4.	131996.858	314
722022.333	4294291.345	5804	27-Apr-15	ENG BOR D1 D2 D3 D4.	132400.68	502
722018.911	4294289.066	5804	27-Apr-15	ENG BOR D1 D2 D3 D4.	132688.604	790
722087.975	4294238.795	5805	27-Apr-15	ENG BOR D1 D2 D3 D4.	131726.832	44
722090.454	4294239.412	5810	27-Apr-15	ENG BOR D1 D2 D3 D4.	132032.646	350
722022.363	4294291.342	5810	27-Apr-15	ENG BOR D1 D2 D3 D4.	132362.623	464
722087.92	4294238.81	5811	27-Apr-15	ENG BOR D1 D2 D3 D4.	131769.73	87
722088.179	4294238.15	5811	27-Apr-15	ENG BOR D1 D2 D3 D4.	131813.065	130
722088.221	4294238.173	5813	27-Apr-15	ENG BOR D1 D2 D3 D4.	131802.951	120
722087.97	4294238.775	5814	27-Apr-15	ENG BOR D1 D2 D3 D4.	131724.902	42
722087.957	4294238.815	5820	27-Apr-15	ENG BOR D1 D2 D3 D4.	131716.707	34
722088.194	4294238.192	5820	27-Apr-15	ENG BOR D1 D2 D3 D4.	131860.789	178
722020.104	4294290.549	5821	27-Apr-15	ENG BOR D1 D2 D3 D4.	133006.593	1108
722088.178	4294238.206	5823	27-Apr-15	ENG BOR D1 D2 D3 D4.	131808.755	126
722088.306	4294238.245	5827	27-Apr-15	ENG BOR D1 D2 D3 D4.	131852.922	170
722085.174	4294237.383	5830	27-Apr-15	ENG BOR D1 D2 D3 D4.	132083.877	401
722087.962	4294238.803	5835	27-Apr-15	ENG BOR D1 D2 D3 D4.	131698.571	16
722018.194	4294291.713	5835	27-Apr-15	ENG BOR D1 D2 D3 D4.	132608.685	710
722023.282	4294288.144	5835	27-Apr-15	ENG BOR D1 D2 D3 D4.	132675.701	777
722022.357	4294291.349	5836	27-Apr-15	ENG BOR D1 D2 D3 D4.	132361.621	463
722091.284	4294236.732	5838	27-Apr-15	ENG BOR D1 D2 D3 D4.	131972.954	290

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722087.954	4294238.815	5843	27-Apr-15	ENG BOR D1 D2 D3 D4.	131692.848	10
722020.758	4294291.016	5850	27-Apr-15	ENG BOR D1 D2 D3 D4.	132593.663	695
722020.761	4294291.005	5850	27-Apr-15	ENG BOR D1 D2 D3 D4.	132599.862	701
722014.379	4294293.431	5850	27-Apr-15	ENG BOR D1 D2 D3 D4.	133022.291	1124
722022.332	4294291.341	5851	27-Apr-15	ENG BOR D1 D2 D3 D4.	132401.773	503
722088.165	4294238.203	5852	27-Apr-15	ENG BOR D1 D2 D3 D4.	131784.958	102
722024.295	4294289.729	5858	27-Apr-15	ENG BOR D1 D2 D3 D4.	132582.645	684
722024.347	4294289.802	5859	27-Apr-15	ENG BOR D1 D2 D3 D4.	132435.659	537
722018.565	4294291.775	5861	27-Apr-15	ENG BOR D1 D2 D3 D4.	132607.657	709
722088.221	4294238.188	5865	27-Apr-15	ENG BOR D1 D2 D3 D4.	131777.057	94
722088.277	4294238.244	5867	27-Apr-15	ENG BOR D1 D2 D3 D4.	131931.86	249
722086.939	4294237.871	5869	27-Apr-15	ENG BOR D1 D2 D3 D4.	132058.905	376
722087.893	4294238.722	5872	27-Apr-15	ENG BOR D1 D2 D3 D4.	131956.806	274
722022.254	4294291.756	5872	27-Apr-15	ENG BOR D1 D2 D3 D4.	132565.753	667
722091.063	4294238.243	5874	27-Apr-15	ENG BOR D1 D2 D3 D4.	131991.788	309
722084.864	4294237.139	5874	27-Apr-15	ENG BOR D1 D2 D3 D4.	132084.938	402
722021.816	4294288.811	5876	27-Apr-15	ENG BOR D1 D2 D3 D4.	132466.747	568
722088.207	4294238.172	5879	27-Apr-15	ENG BOR D1 D2 D3 D4.	131798.184	115
722088.26	4294238.294	5882	27-Apr-15	ENG BOR D1 D2 D3 D4.	131915.704	233
722024.993	4294289.422	5883	27-Apr-15	ENG BOR D1 D2 D3 D4.	132480.646	582
722084.912	4294237.627	5885	27-Apr-15	ENG BOR D1 D2 D3 D4.	132067.85	385
722022.181	4294288.611	5885	27-Apr-15	ENG BOR D1 D2 D3 D4.	132467.663	569
722088.157	4294238.196	5893	27-Apr-15	ENG BOR D1 D2 D3 D4.	131845.869	163
722016.503	4294291.967	5907	27-Apr-15	ENG BOR D1 D2 D3 D4.	133015.476	1117
722018.015	4294291.553	5908	27-Apr-15	ENG BOR D1 D2 D3 D4.	132610.396	712
722088.173	4294238.197	5909	27-Apr-15	ENG BOR D1 D2 D3 D4.	131786.092	103
722087.946	4294238.81	5910	27-Apr-15	ENG BOR D1 D2 D3 D4.	131720.765	38
722017.507	4294291.641	5911	27-Apr-15	ENG BOR D1 D2 D3 D4.	133012.412	1114
722087.945	4294238.818	5913	27-Apr-15	ENG BOR D1 D2 D3 D4.	131760.815	78
722019.878	4294291.35	5914	27-Apr-15	ENG BOR D1 D2 D3 D4.	132604.65	706
722022.477	4294290.946	5915	27-Apr-15	ENG BOR D1 D2 D3 D4.	132342.573	444
722088.193	4294238.124	5920	27-Apr-15	ENG BOR D1 D2 D3 D4.	131823.761	141
722020.705	4294293.099	5921	27-Apr-15	ENG BOR D1 D2 D3 D4.	132644.698	746
722018.201	4294291.348	5921	27-Apr-15	ENG BOR D1 D2 D3 D4.	133010.4919	1112
722020.792	4294290.995	5923	27-Apr-15	ENG BOR D1 D2 D3 D4.	132591.644	693
722022.593	4294290.725	5925	27-Apr-15	ENG BOR D1 D2 D3 D4.	132421.653	523
722088.379	4294233.587	5926	27-Apr-15	ENG BOR D1 D2 D3 D4.	131978.788	296
722087.954	4294238.851	5928	27-Apr-15	ENG BOR D1 D2 D3 D4.	131687.102	3
722088.215	4294238.184	5930	27-Apr-15	ENG BOR D1 D2 D3 D4.	131804.846	122
722088.292	4294238.241	5930	27-Apr-15	ENG BOR D1 D2 D3 D4.	131863.002	180
722087.946	4294238.786	5932	27-Apr-15	ENG BOR D1 D2 D3 D4.	131768.871	86
722022.353	4294291.351	5940	27-Apr-15	ENG BOR D1 D2 D3 D4.	132386.605	488
722020.288	4294292.646	5941	27-Apr-15	ENG BOR D1 D2 D3 D4.	132642.612	744
722022.375	4294291.371	5948	27-Apr-15	ENG BOR D1 D2 D3 D4.	132349.65	451
722088.181	4294238.211	5952	27-Apr-15	ENG BOR D1 D2 D3 D4.	131808.01	125
722020.358	4294291.118	5955	27-Apr-15	ENG BOR D1 D2 D3 D4.	132603.613	705
722019.122	4294292.618	5955	27-Apr-15	ENG BOR D1 D2 D3 D4.	132993.626	1095

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722020.224	4294291.434	5957	27-Apr-15	ENG BOR D1 D2 D3 D4.	132459.669	561
722024.841	4294290.754	5962	27-Apr-15	ENG BOR D1 D2 D3 D4.	132570.397	672
722020.421	4294292.028	5964	27-Apr-15	ENG BOR D1 D2 D3 D4.	132458.713	560
722088.175	4294238.203	5965	27-Apr-15	ENG BOR D1 D2 D3 D4.	131783.816	101
722022.598	4294290.757	5965	27-Apr-15	ENG BOR D1 D2 D3 D4.	132423.156	524
722016.694	4294293.698	5967	27-Apr-15	ENG BOR D1 D2 D3 D4.	132989.448	1091
722090.055	4294238.919	5968	27-Apr-15	ENG BOR D1 D2 D3 D4.	132033.889	351
722088.263	4294238.336	5971	27-Apr-15	ENG BOR D1 D2 D3 D4.	131902.04	219
722088.271	4294238.252	5975	27-Apr-15	ENG BOR D1 D2 D3 D4.	131928.085	245
722022.34	4294291.344	5975	27-Apr-15	ENG BOR D1 D2 D3 D4.	132395.704	497
722019.186	4294289.533	5980	27-Apr-15	ENG BOR D1 D2 D3 D4.	132631.734	733
722087.947	4294238.777	5985	27-Apr-15	ENG BOR D1 D2 D3 D4.	131768.114	85
722088.16	4294238.167	5987	27-Apr-15	ENG BOR D1 D2 D3 D4.	131829.967	147
722017.132	4294291.791	5987	27-Apr-15	ENG BOR D1 D2 D3 D4.	133013.459	1115
722088.284	4294238.293	5988	27-Apr-15	ENG BOR D1 D2 D3 D4.	131944.931	262
722022.114	4294287.068	5990	27-Apr-15	ENG BOR D1 D2 D3 D4.	132623.794	725
722015.318	4294293.268	5992	27-Apr-15	ENG BOR D1 D2 D3 D4.	133020.563	1122
722020.51	4294292.907	5993	27-Apr-15	ENG BOR D1 D2 D3 D4.	132643.666	745
722022.774	4294290.751	5993	27-Apr-15	ENG BOR D1 D2 D3 D4.	132426.71	528
722088.169	4294240.287	5994	27-Apr-15	ENG BOR D1 D2 D3 D4.	132076.672	394
722022.364	4294291.346	5995	27-Apr-15	ENG BOR D1 D2 D3 D4.	132357.719	459
722020.884	4294290.97	5997	27-Apr-15	ENG BOR D1 D2 D3 D4.	132590.792	692
722088.26	4294239.572	6000	27-Apr-15	ENG BOR D1 D2 D3 D4.	131958.654	276
722022.338	4294291.34	6001	27-Apr-15	ENG BOR D1 D2 D3 D4.	132396.569	498
722092.681	4294241.059	6002	27-Apr-15	ENG BOR D1 D2 D3 D4.	131997.915	315
722087.216	4294232.893	6006	27-Apr-15	ENG BOR D1 D2 D3 D4.	132099.75	417
722088.172	4294238.2	6007	27-Apr-15	ENG BOR D1 D2 D3 D4.	131787.912	105
722022.364	4294291.374	6014	27-Apr-15	ENG BOR D1 D2 D3 D4.	132348.73	450
722088.264	4294238.292	6018	27-Apr-15	ENG BOR D1 D2 D3 D4.	131914.652	232
722022.363	4294291.355	6018	27-Apr-15	ENG BOR D1 D2 D3 D4.	132370.661	472
722019.95	4294290.025	6018	27-Apr-15	ENG BOR D1 D2 D3 D4.	132461.708	563
722087.993	4294238.536	6019	27-Apr-15	ENG BOR D1 D2 D3 D4.	131955.7	273
722092.23	4294240.37	6022	27-Apr-15	ENG BOR D1 D2 D3 D4.	131965.831	283
722024.764	4294289.451	6025	27-Apr-15	ENG BOR D1 D2 D3 D4.	132576.669	678
722018.534	4294291.189	6030	27-Apr-15	ENG BOR D1 D2 D3 D4.	133009.5699	1111
722088.289	4294238.299	6031	27-Apr-15	ENG BOR D1 D2 D3 D4.	131888.84	206
722022.35	4294291.355	6031	27-Apr-15	ENG BOR D1 D2 D3 D4.	132367.655	469
722012.971	4294293.487	6031	27-Apr-15	ENG BOR D1 D2 D3 D4.	133267.403	1369
722020.76	4294291.013	6035	27-Apr-15	ENG BOR D1 D2 D3 D4.	132596.654	698
722022.352	4294290.481	6044	27-Apr-15	ENG BOR D1 D2 D3 D4.	132586.688	688
722087.951	4294238.815	6060	27-Apr-15	ENG BOR D1 D2 D3 D4.	131720.003	37
722092.526	4294240.645	6061	27-Apr-15	ENG BOR D1 D2 D3 D4.	131998.93	316
722022.284	4294291.312	6073	27-Apr-15	ENG BOR D1 D2 D3 D4.	132410.597	512
722017.969	4294291.649	6075	27-Apr-15	ENG BOR D1 D2 D3 D4.	132609.751	711
722025.082	4294289.742	6076	27-Apr-15	ENG BOR D1 D2 D3 D4.	132437.662	539
722022.876	4294290.744	6078	27-Apr-15	ENG BOR D1 D2 D3 D4.	132427.664	529
722022.351	4294291.346	6079	27-Apr-15	ENG BOR D1 D2 D3 D4.	132387.672	489

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722088.265	4294238.26	6081	27-Apr-15	ENG BOR D1 D2 D3 D4.	131874.899	192
722023.676	4294291.296	6081	27-Apr-15	ENG BOR D1 D2 D3 D4.	132568.514	670
722019.106	4294290.88	6082	27-Apr-15	ENG BOR D1 D2 D3 D4.	133008.386	1110
722022.582	4294290.622	6083	27-Apr-15	ENG BOR D1 D2 D3 D4.	132417.598	519
722086.757	4294239.362	6092	27-Apr-15	ENG BOR D1 D2 D3 D4.	132071.853	389
722088.219	4294238.205	6093	27-Apr-15	ENG BOR D1 D2 D3 D4.	131861.877	179
722022.226	4294291.35	6093	27-Apr-15	ENG BOR D1 D2 D3 D4.	132408.598	510
722090.378	4294235.698	6096	27-Apr-15	ENG BOR D1 D2 D3 D4.	131974.787	292
722087.932	4294238.821	6104	27-Apr-15	ENG BOR D1 D2 D3 D4.	131756.121	73
722018.942	4294291.71	6109	27-Apr-15	ENG BOR D1 D2 D3 D4.	132606.613	708
722024.994	4294292.462	6110	27-Apr-15	ENG BOR D1 D2 D3 D4.	132665.609	767
722022.348	4294291.357	6114	27-Apr-15	ENG BOR D1 D2 D3 D4.	132346.407	448
722088.297	4294238.258	6117	27-Apr-15	ENG BOR D1 D2 D3 D4.	131935.9	253
722022.351	4294291.343	6119	27-Apr-15	ENG BOR D1 D2 D3 D4.	132388.68	490
722087.971	4294238.783	6120	27-Apr-15	ENG BOR D1 D2 D3 D4.	131725.721	43
722087.945	4294238.783	6122	27-Apr-15	ENG BOR D1 D2 D3 D4.	131766.813	84
722022.374	4294291.333	6130	27-Apr-15	ENG BOR D1 D2 D3 D4.	132372.577	474
722091.431	4294238.821	6139	27-Apr-15	ENG BOR D1 D2 D3 D4.	131992.842	310
722021.355	4294292.229	6149	27-Apr-15	ENG BOR D1 D2 D3 D4.	132563.6	665
722022.311	4294291.159	6154	27-Apr-15	ENG BOR D1 D2 D3 D4.	132412.447	514
722022.375	4294291.343	6155	27-Apr-15	ENG BOR D1 D2 D3 D4.	132352.6	454
722024.761	4294289.448	6159	27-Apr-15	ENG BOR D1 D2 D3 D4.	132577.547	679
722085.545	4294237.696	6163	27-Apr-15	ENG BOR D1 D2 D3 D4.	132082.756	400
722022.37	4294291.331	6164	27-Apr-15	ENG BOR D1 D2 D3 D4.	132355.834	457
722088.177	4294238.198	6167	27-Apr-15	ENG BOR D1 D2 D3 D4.	131789	106
722088.301	4294238.216	6175	27-Apr-15	ENG BOR D1 D2 D3 D4.	131850.872	168
722022.353	4294291.354	6176	27-Apr-15	ENG BOR D1 D2 D3 D4.	132368.677	470
722019.206	4294288.819	6176	27-Apr-15	ENG BOR D1 D2 D3 D4.	132687.841	789
722089.026	4294235.817	6180	27-Apr-15	ENG BOR D1 D2 D3 D4.	132009.691	327
722022.376	4294291.325	6189	27-Apr-15	ENG BOR D1 D2 D3 D4.	132377.657	479
722087.973	4294238.781	6190	27-Apr-15	ENG BOR D1 D2 D3 D4.	131727.91	45
722019.553	4294292.441	6192	27-Apr-15	ENG BOR D1 D2 D3 D4.	132994.399	1096
722020.88	4294293.402	6195	27-Apr-15	ENG BOR D1 D2 D3 D4.	132645.815	747
722013.792	4294293.365	6198	27-Apr-15	ENG BOR D1 D2 D3 D4.	133023.3571	1125
722022.528	4294290.606	6212	27-Apr-15	ENG BOR D1 D2 D3 D4.	132416.508	518
722087.991	4294240.326	6215	27-Apr-15	ENG BOR D1 D2 D3 D4.	132073.913	391
722088.257	4294240.62	6216	27-Apr-15	ENG BOR D1 D2 D3 D4.	132076.047	393
722020.601	4294292.109	6220	27-Apr-15	ENG BOR D1 D2 D3 D4.	132996.627	1098
722022.958	4294290.819	6224	27-Apr-15	ENG BOR D1 D2 D3 D4.	132428.607	530
722087.953	4294238.825	6235	27-Apr-15	ENG BOR D1 D2 D3 D4.	131758.95	76
722088.83	4294240.207	6240	27-Apr-15	ENG BOR D1 D2 D3 D4.	131959.907	277
722089.372	4294236.384	6240	27-Apr-15	ENG BOR D1 D2 D3 D4.	132008.662	326
722022.378	4294291.326	6242	27-Apr-15	ENG BOR D1 D2 D3 D4.	132373.671	475
722022.609	4294290.764	6246	27-Apr-15	ENG BOR D1 D2 D3 D4.	132424.606	526
722087.956	4294238.804	6250	27-Apr-15	ENG BOR D1 D2 D3 D4.	131743.891	61
722087.95	4294238.791	6257	27-Apr-15	ENG BOR D1 D2 D3 D4.	131728.699	46
722022.367	4294291.346	6263	27-Apr-15	ENG BOR D1 D2 D3 D4.	132381.653	483

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722092.951	4294238.76	6265	27-Apr-15	ENG BOR D1 D2 D3 D4.	131968.752	286
722022.281	4294291.169	6266	27-Apr-15	ENG BOR D1 D2 D3 D4.	132344.638	446
722022.332	4294291.345	6279	27-Apr-15	ENG BOR D1 D2 D3 D4.	132399.685	501
722088.025	4294239.124	6282	27-Apr-15	ENG BOR D1 D2 D3 D4.	131957.855	275
722022.373	4294291.339	6287	27-Apr-15	ENG BOR D1 D2 D3 D4.	132378.653	480
722022.236	4294290.554	6289	27-Apr-15	ENG BOR D1 D2 D3 D4.	133002.35	1104
722020.966	4294293.495	6318	27-Apr-15	ENG BOR D1 D2 D3 D4.	132646.519	748
722022.341	4294291.342	6321	27-Apr-15	ENG BOR D1 D2 D3 D4.	132392.681	494
722023.093	4294291.584	6325	27-Apr-15	ENG BOR D1 D2 D3 D4.	132567.42	669
722022.579	4294290.64	6331	27-Apr-15	ENG BOR D1 D2 D3 D4.	132418.747	520
722022.684	4294291.699	6340	27-Apr-15	ENG BOR D1 D2 D3 D4.	132566.618	668
721975.35	4294340.13	6345	27-Apr-15	ENG BOR D1 D2 D3 D4.	133156.3571	1258
722020.756	4294291.002	6362	27-Apr-15	ENG BOR D1 D2 D3 D4.	132592.658	694
721981.587	4294324.854	6382	27-Apr-15	ENG BOR D1 D2 D3 D4.	133489.2061	1591
721981.59	4294324.793	6388	27-Apr-15	ENG BOR D1 D2 D3 D4.	133492.321	1594
722024.569	4294289.572	6393	27-Apr-15	ENG BOR D1 D2 D3 D4.	132581.671	683
722022.365	4294291.344	6413	27-Apr-15	ENG BOR D1 D2 D3 D4.	132364.428	466
722022.892	4294290.799	6416	27-Apr-15	ENG BOR D1 D2 D3 D4.	132429.685	531
722022.367	4294291.324	6419	27-Apr-15	ENG BOR D1 D2 D3 D4.	132354.669	456
721986.09	4294312.386	6422	27-Apr-15	ENG BOR D1 D2 D3 D4.	133090.405	1192
722022.358	4294291.345	6433	27-Apr-15	ENG BOR D1 D2 D3 D4.	132365.754	467
722020.106	4294290.92	6433	27-Apr-15	ENG BOR D1 D2 D3 D4.	132460.439	562
721987.28	4294313.721	6440	27-Apr-15	ENG BOR D1 D2 D3 D4.	132916.623	1018
722022.609	4294290.654	6442	27-Apr-15	ENG BOR D1 D2 D3 D4.	132419.846	521
722087.987	4294238.767	6463	27-Apr-15	ENG BOR D1 D2 D3 D4.	132056.588	374
722022.35	4294291.136	6463	27-Apr-15	ENG BOR D1 D2 D3 D4.	132343.726	445
722022.918	4294290.792	6464	27-Apr-15	ENG BOR D1 D2 D3 D4.	132430.7	532
721973.861	4294342.984	6475	27-Apr-15	ENG BOR D1 D2 D3 D4.	133151.511	1253
722021.121	4294293.755	6477	27-Apr-15	ENG BOR D1 D2 D3 D4.	132648.638	750
722020.759	4294292.468	6479	27-Apr-15	ENG BOR D1 D2 D3 D4.	132562.5	664
722010.775	4294295.489	6482	27-Apr-15	ENG BOR D1 D2 D3 D4.	132979.623	1081
722022.338	4294291.344	6500	27-Apr-15	ENG BOR D1 D2 D3 D4.	132393.675	495
722025.299	4294291.373	6502	27-Apr-15	ENG BOR D1 D2 D3 D4.	132547.706	649
722088.392	4294240.775	6504	27-Apr-15	ENG BOR D1 D2 D3 D4.	132075.036	392
722085.309	4294236.319	6517	27-Apr-15	ENG BOR D1 D2 D3 D4.	132062.664	380
722020.761	4294291.02	6521	27-Apr-15	ENG BOR D1 D2 D3 D4.	132598.547	700
722022.364	4294291.375	6538	27-Apr-15	ENG BOR D1 D2 D3 D4.	132347.797	449
722025.593	4294289.685	6551	27-Apr-15	ENG BOR D1 D2 D3 D4.	132572.656	674
722022.356	4294291.361	6554	27-Apr-15	ENG BOR D1 D2 D3 D4.	132369.592	471
722091.869	4294237.295	6555	27-Apr-15	ENG BOR D1 D2 D3 D4.	131971.877	289
722086.476	4294237.669	6556	27-Apr-15	ENG BOR D1 D2 D3 D4.	132060.005	377
722015.56	4294294.012	6560	27-Apr-15	ENG BOR D1 D2 D3 D4.	132987.604	1089
721974.06	4294342.617	6568	27-Apr-15	ENG BOR D1 D2 D3 D4.	133152.381	1254
721982.009	4294325.351	6572	27-Apr-15	ENG BOR D1 D2 D3 D4.	133115.442	1217
721991.205	4294298.505	6588	27-Apr-15	ENG BOR D1 D2 D3 D4.	133384.3621	1486
722020.233	4294292.582	6596	27-Apr-15	ENG BOR D1 D2 D3 D4.	132561.649	663
722022.331	4294291.347	6596	27-Apr-15	ENG BOR D1 D2 D3 D4.	132403.64	505

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721983.567	4294324.128	6597	27-Apr-15	ENG BOR D1 D2 D3 D4.	132895.551	997
722092.787	4294238.128	6606	27-Apr-15	ENG BOR D1 D2 D3 D4.	131969.796	287
721976.327	4294337.996	6609	27-Apr-15	ENG BOR D1 D2 D3 D4.	133159.6331	1261
722022.373	4294291.358	6614	27-Apr-15	ENG BOR D1 D2 D3 D4.	132351.671	453
721981.642	4294324.763	6616	27-Apr-15	ENG BOR D1 D2 D3 D4.	133494.347	1596
722022.266	4294291.276	6618	27-Apr-15	ENG BOR D1 D2 D3 D4.	132411.647	513
721990.825	4294298.35	6629	27-Apr-15	ENG BOR D1 D2 D3 D4.	133389.4091	1491
721975.166	4294340.562	6661	27-Apr-15	ENG BOR D1 D2 D3 D4.	133155.684	1257
722020.33	4294293.348	6670	27-Apr-15	ENG BOR D1 D2 D3 D4.	132697.717	799
721991.208	4294298.504	6674	27-Apr-15	ENG BOR D1 D2 D3 D4.	133383.51	1485
722022.898	4294290.309	6679	27-Apr-15	ENG BOR D1 D2 D3 D4.	132585.636	687
721984.631	4294321.215	6679	27-Apr-15	ENG BOR D1 D2 D3 D4.	132901.405	1003
722015.912	4294293.191	6689	27-Apr-15	ENG BOR D1 D2 D3 D4.	133019.552	1121
722000.725	4294295.603	6689	27-Apr-15	ENG BOR D1 D2 D3 D4.	133046.605	1148
722022.336	4294291.342	6695	27-Apr-15	ENG BOR D1 D2 D3 D4.	132394.722	496
722022.364	4294291.335	6701	27-Apr-15	ENG BOR D1 D2 D3 D4.	132356.66	458
722021.048	4294293.612	6709	27-Apr-15	ENG BOR D1 D2 D3 D4.	132647.774	749
722022.22	4294291.364	6734	27-Apr-15	ENG BOR D1 D2 D3 D4.	132407.603	509
722085.623	4294236.655	6747	27-Apr-15	ENG BOR D1 D2 D3 D4.	132061.916	379
722022.377	4294291.316	6755	27-Apr-15	ENG BOR D1 D2 D3 D4.	132376.618	478
721981.579	4294324.803	6757	27-Apr-15	ENG BOR D1 D2 D3 D4.	133475.384	1577
721977.177	4294338.981	6761	27-Apr-15	ENG BOR D1 D2 D3 D4.	132860.514	962
722020.136	4294292.232	6762	27-Apr-15	ENG BOR D1 D2 D3 D4.	132995.54	1097
722025.587	4294290.09	6766	27-Apr-15	ENG BOR D1 D2 D3 D4.	132571.876	673
721975.905	4294342.355	6773	27-Apr-15	ENG BOR D1 D2 D3 D4.	132851.717	953
722022.266	4294291.346	6778	27-Apr-15	ENG BOR D1 D2 D3 D4.	132406.571	508
722022.48	4294294.615	6803	27-Apr-15	ENG BOR D1 D2 D3 D4.	132714.543	816
722007.009	4294294.262	6803	27-Apr-15	ENG BOR D1 D2 D3 D4.	133035.629	1137
722005.945	4294294.378	6809	27-Apr-15	ENG BOR D1 D2 D3 D4.	133252.447	1354
722087.958	4294238.818	6812	27-Apr-15	ENG BOR D1 D2 D3 D4.	131744.739	62
722022.653	4294290.769	6812	27-Apr-15	ENG BOR D1 D2 D3 D4.	132425.678	527
722024.716	4294290.389	6812	27-Apr-15	ENG BOR D1 D2 D3 D4.	132671.615	773
722086.142	4294237.309	6829	27-Apr-15	ENG BOR D1 D2 D3 D4.	132060.763	378
721983.341	4294324.691	6829	27-Apr-15	ENG BOR D1 D2 D3 D4.	132894.394	996
721988.984	4294309.925	6832	27-Apr-15	ENG BOR D1 D2 D3 D4.	132785.6639	887
721982.336	4294327.653	6851	27-Apr-15	ENG BOR D1 D2 D3 D4.	132817.407	919
721981.58	4294324.807	6857	27-Apr-15	ENG BOR D1 D2 D3 D4.	133478.39	1580
722008.297	4294294.101	6861	27-Apr-15	ENG BOR D1 D2 D3 D4.	133033.358	1135
722022.379	4294291.318	6862	27-Apr-15	ENG BOR D1 D2 D3 D4.	132375.659	477
722087.229	4294239.758	6863	27-Apr-15	ENG BOR D1 D2 D3 D4.	132072.652	390
722020.677	4294292.744	6865	27-Apr-15	ENG BOR D1 D2 D3 D4.	132457.682	559
721984.071	4294322.742	6870	27-Apr-15	ENG BOR D1 D2 D3 D4.	132898.459	1000
722008.96	4294295.891	6880	27-Apr-15	ENG BOR D1 D2 D3 D4.	132976.454	1078
721976.11	4294341.902	6883	27-Apr-15	ENG BOR D1 D2 D3 D4.	132852.395	954
722021.121	4294294.026	6888	27-Apr-15	ENG BOR D1 D2 D3 D4.	132455.689	557
722022.266	4294291.321	6893	27-Apr-15	ENG BOR D1 D2 D3 D4.	132409.648	511
721981.378	4294327.309	6893	27-Apr-15	ENG BOR D1 D2 D3 D4.	133122.371	1224

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721991.213	4294298.499	6895	27-Apr-15	ENG BOR D1 D2 D3 D4.	133382.402	1484
722024.724	4294289.612	6907	27-Apr-15	ENG BOR D1 D2 D3 D4.	132436.605	538
722021.509	4294293.89	6911	27-Apr-15	ENG BOR D1 D2 D3 D4.	132655.649	757
721991.22	4294298.499	6914	27-Apr-15	ENG BOR D1 D2 D3 D4.	133379.408	1481
722023.988	4294293.096	6922	27-Apr-15	ENG BOR D1 D2 D3 D4.	132663.611	765
721981.59	4294324.844	6927	27-Apr-15	ENG BOR D1 D2 D3 D4.	133488.161	1590
722022.332	4294291.352	6929	27-Apr-15	ENG BOR D1 D2 D3 D4.	132404.728	506
722022.367	4294291.344	6933	27-Apr-15	ENG BOR D1 D2 D3 D4.	132363.642	465
722020.998	4294292.773	6935	27-Apr-15	ENG BOR D1 D2 D3 D4.	132557.651	659
721981.584	4294324.862	6935	27-Apr-15	ENG BOR D1 D2 D3 D4.	133490.2061	1592
722009.333	4294293.801	6938	27-Apr-15	ENG BOR D1 D2 D3 D4.	133031.66	1133
721991.201	4294298.832	6941	27-Apr-15	ENG BOR D1 D2 D3 D4.	133321.3459	1423
722024.778	4294289.47	6942	27-Apr-15	ENG BOR D1 D2 D3 D4.	132575.64	677
722020.924	4294293.395	6942	27-Apr-15	ENG BOR D1 D2 D3 D4.	132456.691	558
721974.983	4294344.606	6950	27-Apr-15	ENG BOR D1 D2 D3 D4.	132846.439	948
722013.126	4294293.741	6956	27-Apr-15	ENG BOR D1 D2 D3 D4.	133268.4091	1370
721975.763	4294340.526	6961	27-Apr-15	ENG BOR D1 D2 D3 D4.	133144.421	1246
722022.366	4294291.346	6971	27-Apr-15	ENG BOR D1 D2 D3 D4.	132379.676	481
721984.317	4294318.076	6972	27-Apr-15	ENG BOR D1 D2 D3 D4.	133100.45	1202
721987.981	4294312.754	6974	27-Apr-15	ENG BOR D1 D2 D3 D4.	132790.623	892
721991.626	4294302.734	6983	27-Apr-15	ENG BOR D1 D2 D3 D4.	132937.35	1039
721988.696	4294310.104	6987	27-Apr-15	ENG BOR D1 D2 D3 D4.	132923.405	1025
721975.439	4294341.251	6990	27-Apr-15	ENG BOR D1 D2 D3 D4.	133145.431	1247
722011.584	4294294.053	6993	27-Apr-15	ENG BOR D1 D2 D3 D4.	133271.624	1373
722007.146	4294296.302	7000	27-Apr-15	ENG BOR D1 D2 D3 D4.	132973.647	1075
722001.189	4294297.329	7001	27-Apr-15	ENG BOR D1 D2 D3 D4.	132963.475	1065
721985.63	4294318.69	7005	27-Apr-15	ENG BOR D1 D2 D3 D4.	132906.436	1008
721991.217	4294298.5	7008	27-Apr-15	ENG BOR D1 D2 D3 D4.	133380.1591	1482
722026.851	4294292.482	7010	27-Apr-15	ENG BOR D1 D2 D3 D4.	132485.818	587
721984.458	4294317.605	7011	27-Apr-15	ENG BOR D1 D2 D3 D4.	133099.5179	1201
721997.753	4294296.484	7015	27-Apr-15	ENG BOR D1 D2 D3 D4.	133291.585	1393
722021.373	4294293.831	7019	27-Apr-15	ENG BOR D1 D2 D3 D4.	132649.638	751
722092.382	4294237.741	7021	27-Apr-15	ENG BOR D1 D2 D3 D4.	131970.634	288
721976.541	4294338.113	7021	27-Apr-15	ENG BOR D1 D2 D3 D4.	133140.457	1242
722025.219	4294289.339	7038	27-Apr-15	ENG BOR D1 D2 D3 D4.	132573.686	675
722008.905	4294293.909	7044	27-Apr-15	ENG BOR D1 D2 D3 D4.	133032.354	1134
722022.381	4294291.32	7050	27-Apr-15	ENG BOR D1 D2 D3 D4.	132374.772	476
721976.476	4294337.502	7052	27-Apr-15	ENG BOR D1 D2 D3 D4.	133160.4139	1262
721977.97	4294333.964	7056	27-Apr-15	ENG BOR D1 D2 D3 D4.	133166.5601	1268
722021.475	4294293.861	7061	27-Apr-15	ENG BOR D1 D2 D3 D4.	132651.399	753
721995.324	4294298.466	7065	27-Apr-15	ENG BOR D1 D2 D3 D4.	132953.297	1055
721983.626	4294324.425	7070	27-Apr-15	ENG BOR D1 D2 D3 D4.	132811.542	913
722013.632	4294294.685	7070	27-Apr-15	ENG BOR D1 D2 D3 D4.	132984.396	1086
722016.068	4294293.891	7070	27-Apr-15	ENG BOR D1 D2 D3 D4.	132988.405	1090
722012.687	4294293.335	7070	27-Apr-15	ENG BOR D1 D2 D3 D4.	133025.658	1127
722025.949	4294294.078	7071	27-Apr-15	ENG BOR D1 D2 D3 D4.	132445.683	547
721984.103	4294318.611	7083	27-Apr-15	ENG BOR D1 D2 D3 D4.	133101.709	1203

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722025.097	4294291.569	7085	27-Apr-15	ENG BOR D1 D2 D3 D4.	132548.755	650
721991.871	4294301.779	7089	27-Apr-15	ENG BOR D1 D2 D3 D4.	132939.437	1041
722010.097	4294295.647	7090	27-Apr-15	ENG BOR D1 D2 D3 D4.	132978.39	1080
721991.722	4294298.417	7098	27-Apr-15	ENG BOR D1 D2 D3 D4.	133304.365	1406
722025.435	4294290.097	7099	27-Apr-15	ENG BOR D1 D2 D3 D4.	132438.518	540
722024.555	4294294.68	7100	27-Apr-15	ENG BOR D1 D2 D3 D4.	132527.5	629
721991.322	4294298.758	7101	27-Apr-15	ENG BOR D1 D2 D3 D4.	133312.355	1414
721975.687	4294339.47	7106	27-Apr-15	ENG BOR D1 D2 D3 D4.	133157.442	1259
721981.435	4294324.815	7111	27-Apr-15	ENG BOR D1 D2 D3 D4.	133460.183	1562
722007.636	4294296.206	7120	27-Apr-15	ENG BOR D1 D2 D3 D4.	132974.448	1076
721977.146	4294339.035	7123	27-Apr-15	ENG BOR D1 D2 D3 D4.	132859.3929	961
721976.496	4294340.839	7127	27-Apr-15	ENG BOR D1 D2 D3 D4.	132854.13	956
722023.295	4294295.309	7132	27-Apr-15	ENG BOR D1 D2 D3 D4.	132449.665	551
721981.6	4294324.819	7133	27-Apr-15	ENG BOR D1 D2 D3 D4.	133480.319	1582
722022.376	4294291.364	7135	27-Apr-15	ENG BOR D1 D2 D3 D4.	132350.702	452
721976.067	4294342.393	7137	27-Apr-15	ENG BOR D1 D2 D3 D4.	132842.455	944
722020.023	4294293.044	7138	27-Apr-15	ENG BOR D1 D2 D3 D4.	132559.505	661
722011.227	4294295.369	7140	27-Apr-15	ENG BOR D1 D2 D3 D4.	132980.402	1082
721981.63	4294324.753	7147	27-Apr-15	ENG BOR D1 D2 D3 D4.	133493.391	1595
721979.796	4294332.666	7148	27-Apr-15	ENG BOR D1 D2 D3 D4.	132877.438	979
721984.803	4294320.664	7159	27-Apr-15	ENG BOR D1 D2 D3 D4.	132902.51	1004
722024.461	4294292.733	7160	27-Apr-15	ENG BOR D1 D2 D3 D4.	132664.66	766
722026.103	4294291.323	7160	27-Apr-15	ENG BOR D1 D2 D3 D4.	132483.842	585
722014.909	4294294.203	7162	27-Apr-15	ENG BOR D1 D2 D3 D4.	132986.543	1088
722023.566	4294293.396	7167	27-Apr-15	ENG BOR D1 D2 D3 D4.	132662.661	764
721986.263	4294316.221	7168	27-Apr-15	ENG BOR D1 D2 D3 D4.	132911.604	1013
721975.557	4294343.014	7173	27-Apr-15	ENG BOR D1 D2 D3 D4.	132850.642	952
721981.589	4294324.815	7174	27-Apr-15	ENG BOR D1 D2 D3 D4.	133479.451	1581
722001.779	4294295.051	7178	27-Apr-15	ENG BOR D1 D2 D3 D4.	133246.355	1348
722019.771	4294292.823	7184	27-Apr-15	ENG BOR D1 D2 D3 D4.	132560.608	662
721982.479	4294322.502	7188	27-Apr-15	ENG BOR D1 D2 D3 D4.	133186.391	1288
722022.313	4294291.35	7192	27-Apr-15	ENG BOR D1 D2 D3 D4.	132405.843	507
722028.055	4294294.098	7193	27-Apr-15	ENG BOR D1 D2 D3 D4.	132488.693	590
722025.424	4294292.246	7197	27-Apr-15	ENG BOR D1 D2 D3 D4.	132666.41	768
721991.312	4294299.144	7202	27-Apr-15	ENG BOR D1 D2 D3 D4.	133066.177	1168
721980.73	4294326.773	7202	27-Apr-15	ENG BOR D1 D2 D3 D4.	133178.54	1280
721980.516	4294327.369	7209	27-Apr-15	ENG BOR D1 D2 D3 D4.	133177.449	1279
721993.659	4294297.312	7211	27-Apr-15	ENG BOR D1 D2 D3 D4.	133059.646	1161
722021.713	4294292.472	7222	27-Apr-15	ENG BOR D1 D2 D3 D4.	132556.352	658
721996.412	4294299.687	7223	27-Apr-15	ENG BOR D1 D2 D3 D4.	132758.368	860
721977.639	4294334.59	7223	27-Apr-15	ENG BOR D1 D2 D3 D4.	133165.454	1267
721995.807	4294298.393	7226	27-Apr-15	ENG BOR D1 D2 D3 D4.	132954.361	1056
721991.249	4294298.807	7229	27-Apr-15	ENG BOR D1 D2 D3 D4.	133323.345	1425
721981.394	4294324.748	7233	27-Apr-15	ENG BOR D1 D2 D3 D4.	133442.403	1544
722026.005	4294290.752	7234	27-Apr-15	ENG BOR D1 D2 D3 D4.	132439.636	541
722021.489	4294293.842	7245	27-Apr-15	ENG BOR D1 D2 D3 D4.	132650.36	752
722024.856	4294289.454	7249	27-Apr-15	ENG BOR D1 D2 D3 D4.	132574.778	676

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722015.793	4294297.971	7252	27-Apr-15	ENG BOR D1 D2 D3 D4.	132727.681	829
722012.271	4294293.318	7257	27-Apr-15	ENG BOR D1 D2 D3 D4.	133026.469	1128
721977.192	4294338.944	7270	27-Apr-15	ENG BOR D1 D2 D3 D4.	132862.406	964
721981.735	4294324.668	7271	27-Apr-15	ENG BOR D1 D2 D3 D4.	133182.549	1284
721987.165	4294307.784	7274	27-Apr-15	ENG BOR D1 D2 D3 D4.	133403.356	1505
721982.943	4294320.077	7278	27-Apr-15	ENG BOR D1 D2 D3 D4.	133421.321	1523
722022.595	4294294.007	7280	27-Apr-15	ENG BOR D1 D2 D3 D4.	132660.7	762
722026.355	4294291.813	7280	27-Apr-15	ENG BOR D1 D2 D3 D4.	132484.649	586
722000.535	4294295.977	7281	27-Apr-15	ENG BOR D1 D2 D3 D4.	133287.3669	1389
722025.657	4294290.64	7283	27-Apr-15	ENG BOR D1 D2 D3 D4.	132482.648	584
721984.65	4294316.963	7286	27-Apr-15	ENG BOR D1 D2 D3 D4.	133098.433	1200
721990.832	4294304.741	7307	27-Apr-15	ENG BOR D1 D2 D3 D4.	132776.6379	878
722013.302	4294298.402	7313	27-Apr-15	ENG BOR D1 D2 D3 D4.	132731.606	833
721982.096	4294325.173	7313	27-Apr-15	ENG BOR D1 D2 D3 D4.	133116.391	1218
721981.373	4294324.605	7320	27-Apr-15	ENG BOR D1 D2 D3 D4.	133436.094	1538
722025.111	4294290.785	7329	27-Apr-15	ENG BOR D1 D2 D3 D4.	132670.554	772
721996.018	4294296.388	7331	27-Apr-15	ENG BOR D1 D2 D3 D4.	133238.432	1340
721993.114	4294297.599	7332	27-Apr-15	ENG BOR D1 D2 D3 D4.	133300.327	1402
722024.706	4294289.509	7335	27-Apr-15	ENG BOR D1 D2 D3 D4.	132580.617	682
721975.271	4294343.574	7335	27-Apr-15	ENG BOR D1 D2 D3 D4.	132849.634	951
721979.393	4294333.595	7338	27-Apr-15	ENG BOR D1 D2 D3 D4.	132875.608	977
722000.113	4294295.801	7342	27-Apr-15	ENG BOR D1 D2 D3 D4.	133047.671	1149
721984.064	4294316.51	7346	27-Apr-15	ENG BOR D1 D2 D3 D4.	133416.191	1518
721986.676	4294310.722	7347	27-Apr-15	ENG BOR D1 D2 D3 D4.	133087.422	1189
721991.287	4294298.477	7353	27-Apr-15	ENG BOR D1 D2 D3 D4.	133343.608	1445
721981.461	4294329.168	7355	27-Apr-15	ENG BOR D1 D2 D3 D4.	132884.442	986
722009.452	4294295.784	7360	27-Apr-15	ENG BOR D1 D2 D3 D4.	132977.287	1079
721983.599	4294319.729	7363	27-Apr-15	ENG BOR D1 D2 D3 D4.	133191.408	1293
722008.478	4294294.537	7363	27-Apr-15	ENG BOR D1 D2 D3 D4.	133275.5601	1377
721982.599	4294327.086	7365	27-Apr-15	ENG BOR D1 D2 D3 D4.	132816.373	918
721981.461	4294325.232	7365	27-Apr-15	ENG BOR D1 D2 D3 D4.	133181.449	1283
721991.243	4294298.485	7365	27-Apr-15	ENG BOR D1 D2 D3 D4.	133376.173	1478
721990.401	4294305.725	7371	27-Apr-15	ENG BOR D1 D2 D3 D4.	132778.7061	880
721977.068	4294339.248	7373	27-Apr-15	ENG BOR D1 D2 D3 D4.	132858.5081	960
721977.855	4294337.451	7378	27-Apr-15	ENG BOR D1 D2 D3 D4.	132867.517	969
722012.957	4294293.832	7379	27-Apr-15	ENG BOR D1 D2 D3 D4.	133269.4351	1371
721991.037	4294299.942	7380	27-Apr-15	ENG BOR D1 D2 D3 D4.	133067.6899	1169
722024.408	4294297.053	7387	27-Apr-15	ENG BOR D1 D2 D3 D4.	132496.407	598
722001.761	4294297.246	7390	27-Apr-15	ENG BOR D1 D2 D3 D4.	132964.427	1066
721976.288	4294341.439	7391	27-Apr-15	ENG BOR D1 D2 D3 D4.	132853.067	955
722021.713	4294295.282	7392	27-Apr-15	ENG BOR D1 D2 D3 D4.	132716.42	818
721987.134	4294309.689	7392	27-Apr-15	ENG BOR D1 D2 D3 D4.	133085.562	1187
722023.493	4294295.653	7393	27-Apr-15	ENG BOR D1 D2 D3 D4.	132711.668	813
721979.196	4294334.135	7394	27-Apr-15	ENG BOR D1 D2 D3 D4.	132874.517	976
722013.179	4294294.819	7401	27-Apr-15	ENG BOR D1 D2 D3 D4.	132983.6	1085
721975.365	4294344.268	7403	27-Apr-15	ENG BOR D1 D2 D3 D4.	132845.4449	947
721979.257	4294330.575	7405	27-Apr-15	ENG BOR D1 D2 D3 D4.	133172.453	1274

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721983.394	4294325.011	7407	27-Apr-15	ENG BOR D1 D2 D3 D4.	132812.6379	914
722014.235	4294294.462	7407	27-Apr-15	ENG BOR D1 D2 D3 D4.	132985.454	1087
721984.34	4294322.704	7410	27-Apr-15	ENG BOR D1 D2 D3 D4.	132808.385	910
721982.544	4294326.654	7410	27-Apr-15	ENG BOR D1 D2 D3 D4.	132890.52	992
722020.337	4294294.946	7411	27-Apr-15	ENG BOR D1 D2 D3 D4.	132700.431	802
721976.878	4294339.649	7412	27-Apr-15	ENG BOR D1 D2 D3 D4.	132857.408	959
721996.784	4294296.178	7413	27-Apr-15	ENG BOR D1 D2 D3 D4.	133239.514	1341
722023.03	4294298.007	7420	27-Apr-15	ENG BOR D1 D2 D3 D4.	132501.806	603
721989.049	4294303.991	7424	27-Apr-15	ENG BOR D1 D2 D3 D4.	133217.5959	1319
722022.772	4294297.418	7425	27-Apr-15	ENG BOR D1 D2 D3 D4.	132509.64	611
721987.416	4294313.297	7430	27-Apr-15	ENG BOR D1 D2 D3 D4.	132917.502	1019
721981.419	4294324.824	7436	27-Apr-15	ENG BOR D1 D2 D3 D4.	133455.368	1557
722022.924	4294292.219	7437	27-Apr-15	ENG BOR D1 D2 D3 D4.	132554.512	656
721990.957	4294298.309	7437	27-Apr-15	ENG BOR D1 D2 D3 D4.	133388.344	1490
721991.3	4294298.526	7446	27-Apr-15	ENG BOR D1 D2 D3 D4.	133332.578	1434
721982.718	4294323.009	7448	27-Apr-15	ENG BOR D1 D2 D3 D4.	133109.745	1211
722012.37	4294293.99	7455	27-Apr-15	ENG BOR D1 D2 D3 D4.	133270.5389	1372
721981.473	4294324.819	7457	27-Apr-15	ENG BOR D1 D2 D3 D4.	133463.481	1565
721985.502	4294314.654	7460	27-Apr-15	ENG BOR D1 D2 D3 D4.	133094.458	1196
721986.344	4294315.839	7462	27-Apr-15	ENG BOR D1 D2 D3 D4.	132912.4041	1014
721974.405	4294342.09	7462	27-Apr-15	ENG BOR D1 D2 D3 D4.	133153.412	1255
722026.295	4294291.815	7463	27-Apr-15	ENG BOR D1 D2 D3 D4.	132542.662	644
722010.373	4294298.769	7464	27-Apr-15	ENG BOR D1 D2 D3 D4.	132735.687	837
722002.439	4294294.958	7464	27-Apr-15	ENG BOR D1 D2 D3 D4.	133247.413	1349
721985.302	4294313.225	7464	27-Apr-15	ENG BOR D1 D2 D3 D4.	133411.3669	1513
722003.613	4294295.058	7466	27-Apr-15	ENG BOR D1 D2 D3 D4.	133041.537	1143
721992.009	4294301.5	7472	27-Apr-15	ENG BOR D1 D2 D3 D4.	132940.496	1042
721979.598	4294333.107	7474	27-Apr-15	ENG BOR D1 D2 D3 D4.	132876.55	978
722010.008	4294293.688	7475	27-Apr-15	ENG BOR D1 D2 D3 D4.	133030.442	1132
721980.073	4294328.429	7475	27-Apr-15	ENG BOR D1 D2 D3 D4.	133175.647	1277
721986.459	4294311.281	7476	27-Apr-15	ENG BOR D1 D2 D3 D4.	133088.4561	1190
721996.444	4294298.28	7476	27-Apr-15	ENG BOR D1 D2 D3 D4.	132955.605	1057
721991.285	4294298.48	7478	27-Apr-15	ENG BOR D1 D2 D3 D4.	133344.4041	1446
721977.18	4294338.955	7480	27-Apr-15	ENG BOR D1 D2 D3 D4.	132861.598	963
722022.621	4294295.254	7483	27-Apr-15	ENG BOR D1 D2 D3 D4.	132534.522	636
721994.305	4294297.211	7486	27-Apr-15	ENG BOR D1 D2 D3 D4.	133058.348	1160
722002.415	4294297.09	7487	27-Apr-15	ENG BOR D1 D2 D3 D4.	132965.51	1067
721977.501	4294336.146	7487	27-Apr-15	ENG BOR D1 D2 D3 D4.	133136.365	1238
721992.286	4294297.977	7493	27-Apr-15	ENG BOR D1 D2 D3 D4.	133302.4091	1404
722023.46	4294296.139	7494	27-Apr-15	ENG BOR D1 D2 D3 D4.	132710.366	812
721991.222	4294298.496	7495	27-Apr-15	ENG BOR D1 D2 D3 D4.	133378.363	1480
721991.304	4294298.498	7506	27-Apr-15	ENG BOR D1 D2 D3 D4.	133352.4	1454
721991.31	4294298.507	7506	27-Apr-15	ENG BOR D1 D2 D3 D4.	133355.405	1457
721990.15	4294306.393	7514	27-Apr-15	ENG BOR D1 D2 D3 D4.	132930.551	1032
721982.318	4294322.983	7514	27-Apr-15	ENG BOR D1 D2 D3 D4.	133185.431	1287
721984.48	4294321.697	7516	27-Apr-15	ENG BOR D1 D2 D3 D4.	132900.502	1002
722021.517	4294293.887	7518	27-Apr-15	ENG BOR D1 D2 D3 D4.	132656.677	758

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721986.922	4294308.53	7518	27-Apr-15	ENG BOR D1 D2 D3 D4.	133404.428	1506
721981.601	4294324.84	7519	27-Apr-15	ENG BOR D1 D2 D3 D4.	133486.401	1588
721987.01	4294314.353	7521	27-Apr-15	ENG BOR D1 D2 D3 D4.	132915.406	1017
721987.525	4294308.584	7523	27-Apr-15	ENG BOR D1 D2 D3 D4.	133083.426	1185
721987.222	4294315.071	7526	27-Apr-15	ENG BOR D1 D2 D3 D4.	132794.693	896
721984.243	4294317.906	7526	27-Apr-15	ENG BOR D1 D2 D3 D4.	133194.4871	1296
722001.158	4294295.876	7526	27-Apr-15	ENG BOR D1 D2 D3 D4.	133286.4139	1388
722025.568	4294291.143	7528	27-Apr-15	ENG BOR D1 D2 D3 D4.	132546.655	648
721981.338	4294324.656	7528	27-Apr-15	ENG BOR D1 D2 D3 D4.	133431.501	1533
722027.229	4294294.619	7533	27-Apr-15	ENG BOR D1 D2 D3 D4.	132519.621	621
721992.74	4294297.765	7533	27-Apr-15	ENG BOR D1 D2 D3 D4.	133301.374	1403
722023.09	4294294.88	7534	27-Apr-15	ENG BOR D1 D2 D3 D4.	132713.438	815
721981.641	4294324.783	7534	27-Apr-15	ENG BOR D1 D2 D3 D4.	133495.3571	1597
722021.836	4294295.509	7539	27-Apr-15	ENG BOR D1 D2 D3 D4.	132532.659	634
721995.097	4294297.001	7541	27-Apr-15	ENG BOR D1 D2 D3 D4.	133296.1591	1398
721991.216	4294298.497	7542	27-Apr-15	ENG BOR D1 D2 D3 D4.	133381.3621	1483
721981.106	4294328.018	7543	27-Apr-15	ENG BOR D1 D2 D3 D4.	133123.406	1225
721990.836	4294300.42	7545	27-Apr-15	ENG BOR D1 D2 D3 D4.	133068.519	1170
721981.409	4294324.831	7547	27-Apr-15	ENG BOR D1 D2 D3 D4.	133454.522	1556
721985.833	4294311.814	7549	27-Apr-15	ENG BOR D1 D2 D3 D4.	133204.3571	1306
722020.61	4294292.936	7553	27-Apr-15	ENG BOR D1 D2 D3 D4.	132558.413	660
722027.713	4294294.062	7553	27-Apr-15	ENG BOR D1 D2 D3 D4.	132520.667	622
722004.467	4294294.652	7554	27-Apr-15	ENG BOR D1 D2 D3 D4.	133250.356	1352
722011.468	4294293.283	7555	27-Apr-15	ENG BOR D1 D2 D3 D4.	133262.155	1364
722025.432	4294294.422	7557	27-Apr-15	ENG BOR D1 D2 D3 D4.	132446.432	548
721991.213	4294298.622	7557	27-Apr-15	ENG BOR D1 D2 D3 D4.	133326.48	1428
722025.639	4294296.02	7558	27-Apr-15	ENG BOR D1 D2 D3 D4.	132516.627	618
721983.694	4294323.733	7559	27-Apr-15	ENG BOR D1 D2 D3 D4.	132896.385	998
721974.679	4294342.822	7562	27-Apr-15	ENG BOR D1 D2 D3 D4.	133147.606	1249
722020.382	4294294.597	7564	27-Apr-15	ENG BOR D1 D2 D3 D4.	132699.706	801
721991.291	4294298.48	7564	27-Apr-15	ENG BOR D1 D2 D3 D4.	133340.38	1442
721974.836	4294341.374	7565	27-Apr-15	ENG BOR D1 D2 D3 D4.	133154.536	1256
721981.632	4294324.689	7565	27-Apr-15	ENG BOR D1 D2 D3 D4.	133506.308	1605
721981.68	4294328.612	7569	27-Apr-15	ENG BOR D1 D2 D3 D4.	132885.665	987
721986.228	4294311.903	7569	27-Apr-15	ENG BOR D1 D2 D3 D4.	133089.577	1191
721979.889	4294333.255	7576	27-Apr-15	ENG BOR D1 D2 D3 D4.	132827.67	929
721977.004	4294337.196	7578	27-Apr-15	ENG BOR D1 D2 D3 D4.	133138.597	1240
721991.259	4294298.504	7578	27-Apr-15	ENG BOR D1 D2 D3 D4.	133362.167	1464
722010.521	4294293.591	7581	27-Apr-15	ENG BOR D1 D2 D3 D4.	133029.4771	1131
721984.303	4294316.774	7581	27-Apr-15	ENG BOR D1 D2 D3 D4.	133195.616	1297
721991.269	4294298.481	7582	27-Apr-15	ENG BOR D1 D2 D3 D4.	133373.4301	1475
721976.142	4294339.274	7586	27-Apr-15	ENG BOR D1 D2 D3 D4.	133142.4351	1244
722023.423	4294297.449	7593	27-Apr-15	ENG BOR D1 D2 D3 D4.	132512.509	614
721990.815	4294299.081	7597	27-Apr-15	ENG BOR D1 D2 D3 D4.	133227.484	1329
722010.941	4294294.079	7598	27-Apr-15	ENG BOR D1 D2 D3 D4.	133272.407	1374
722021.963	4294294.857	7611	27-Apr-15	ENG BOR D1 D2 D3 D4.	132715.6121	817
721978.989	4294334.644	7617	27-Apr-15	ENG BOR D1 D2 D3 D4.	132873.4301	975

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721988.683	4294304.849	7618	27-Apr-15	ENG BOR D1 D2 D3 D4.	133216.3459	1318
722027.347	4294293.377	7619	27-Apr-15	ENG BOR D1 D2 D3 D4.	132522.614	624
721981.164	4294325.773	7620	27-Apr-15	ENG BOR D1 D2 D3 D4.	133180.406	1282
722021.476	4294293.869	7626	27-Apr-15	ENG BOR D1 D2 D3 D4.	132653.506	755
721984.515	4294315.209	7627	27-Apr-15	ENG BOR D1 D2 D3 D4.	133414.39	1516
721991.941	4294298.221	7633	27-Apr-15	ENG BOR D1 D2 D3 D4.	133303.369	1405
722021.529	4294295.924	7638	27-Apr-15	ENG BOR D1 D2 D3 D4.	132717.436	819
721981.611	4294324.836	7638	27-Apr-15	ENG BOR D1 D2 D3 D4.	133485.4659	1587
722022.098	4294294.231	7640	27-Apr-15	ENG BOR D1 D2 D3 D4.	132659.623	761
721999.943	4294296.072	7640	27-Apr-15	ENG BOR D1 D2 D3 D4.	133288.3719	1390
721981.578	4294324.721	7640	27-Apr-15	ENG BOR D1 D2 D3 D4.	133514.4351	1613
721991.155	4294298.466	7641	27-Apr-15	ENG BOR D1 D2 D3 D4.	133386.359	1488
721990.889	4294304.689	7643	27-Apr-15	ENG BOR D1 D2 D3 D4.	132933.67	1035
721981.63	4294324.8	7643	27-Apr-15	ENG BOR D1 D2 D3 D4.	133496.1071	1598
721987.622	4294312.631	7647	27-Apr-15	ENG BOR D1 D2 D3 D4.	132918.6851	1020
722012.013	4294293.201	7649	27-Apr-15	ENG BOR D1 D2 D3 D4.	133264.425	1366
721996.914	4294299.789	7652	27-Apr-15	ENG BOR D1 D2 D3 D4.	132757.548	859
722022.368	4294291.346	7653	27-Apr-15	ENG BOR D1 D2 D3 D4.	132380.594	482
721998.915	4294297.795	7653	27-Apr-15	ENG BOR D1 D2 D3 D4.	132959.593	1061
722007.755	4294294.196	7655	27-Apr-15	ENG BOR D1 D2 D3 D4.	133034.347	1136
721981.398	4294324.743	7658	27-Apr-15	ENG BOR D1 D2 D3 D4.	133443.45	1545
721991.232	4294298.49	7661	27-Apr-15	ENG BOR D1 D2 D3 D4.	133377.272	1479
721985.949	4294312.993	7665	27-Apr-15	ENG BOR D1 D2 D3 D4.	133091.41	1193
721988.551	4294305.653	7668	27-Apr-15	ENG BOR D1 D2 D3 D4.	133077.655	1179
721991.047	4294298.376	7670	27-Apr-15	ENG BOR D1 D2 D3 D4.	133387.433	1489
721989.609	4294301.014	7670	27-Apr-15	ENG BOR D1 D2 D3 D4.	133394.271	1496
722025.3	4294296.173	7674	27-Apr-15	ENG BOR D1 D2 D3 D4.	132494.662	596
721988.423	4294305.514	7675	27-Apr-15	ENG BOR D1 D2 D3 D4.	133215.427	1317
721981.592	4294324.84	7676	27-Apr-15	ENG BOR D1 D2 D3 D4.	133482.1639	1584
722024.73	4294293.524	7678	27-Apr-15	ENG BOR D1 D2 D3 D4.	132538.761	640
721983.951	4294318.904	7680	27-Apr-15	ENG BOR D1 D2 D3 D4.	133102.47	1204
722012.672	4294293.222	7685	27-Apr-15	ENG BOR D1 D2 D3 D4.	133266.384	1368
721979.858	4294331.248	7686	27-Apr-15	ENG BOR D1 D2 D3 D4.	133128.469	1230
721985.095	4294313.759	7686	27-Apr-15	ENG BOR D1 D2 D3 D4.	133412.163	1514
722024.759	4294289.455	7690	27-Apr-15	ENG BOR D1 D2 D3 D4.	132578.702	680
721978.662	4294333.724	7697	27-Apr-15	ENG BOR D1 D2 D3 D4.	133132.396	1234
722023.398	4294295.335	7698	27-Apr-15	ENG BOR D1 D2 D3 D4.	132712.41	814
721990.354	4294305.859	7698	27-Apr-15	ENG BOR D1 D2 D3 D4.	132931.515	1033
722024.607	4294291.933	7702	27-Apr-15	ENG BOR D1 D2 D3 D4.	132550.581	652
721989.85	4294302.792	7704	27-Apr-15	ENG BOR D1 D2 D3 D4.	133072.54	1174
722021.471	4294293.87	7705	27-Apr-15	ENG BOR D1 D2 D3 D4.	132652.445	754
721991.31	4294298.542	7707	27-Apr-15	ENG BOR D1 D2 D3 D4.	133331.429	1433
722012.785	4294298.464	7708	27-Apr-15	ENG BOR D1 D2 D3 D4.	132732.365	834
722025.741	4294291.875	7709	27-Apr-15	ENG BOR D1 D2 D3 D4.	132667.522	769
722022.034	4294295.604	7716	27-Apr-15	ENG BOR D1 D2 D3 D4.	132531.629	633
722009.811	4294298.803	7716	27-Apr-15	ENG BOR D1 D2 D3 D4.	132736.4821	838
722002.908	4294294.873	7716	27-Apr-15	ENG BOR D1 D2 D3 D4.	133248.197	1350

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721990.743	4294298.471	7717	27-Apr-15	ENG BOR D1 D2 D3 D4.	133390.217	1492
721988.057	4294307.079	7719	27-Apr-15	ENG BOR D1 D2 D3 D4.	133080.459	1182
722003.569	4294296.83	7720	27-Apr-15	ENG BOR D1 D2 D3 D4.	132967.54	1069
721990.212	4294306.228	7723	27-Apr-15	ENG BOR D1 D2 D3 D4.	132779.613	881
722018.915	4294297.514	7725	27-Apr-15	ENG BOR D1 D2 D3 D4.	132722.609	824
721991.301	4294298.489	7725	27-Apr-15	ENG BOR D1 D2 D3 D4.	133336.374	1438
722021.486	4294293.876	7726	27-Apr-15	ENG BOR D1 D2 D3 D4.	132654.364	756
721999.374	4294299.714	7729	27-Apr-15	ENG BOR D1 D2 D3 D4.	132753.542	855
722008.642	4294293.865	7729	27-Apr-15	ENG BOR D1 D2 D3 D4.	133256.423	1358
721987.334	4294309.123	7730	27-Apr-15	ENG BOR D1 D2 D3 D4.	133084.463	1186
721993.526	4294297.451	7730	27-Apr-15	ENG BOR D1 D2 D3 D4.	133299.361	1401
722024.744	4294289.485	7742	27-Apr-15	ENG BOR D1 D2 D3 D4.	132579.787	681
721987.636	4294313.979	7748	27-Apr-15	ENG BOR D1 D2 D3 D4.	132792.704	894
721981.443	4294324.813	7749	27-Apr-15	ENG BOR D1 D2 D3 D4.	133462.166	1564
721991.049	4294304.228	7750	27-Apr-15	ENG BOR D1 D2 D3 D4.	132775.608	877
721991.294	4294298.486	7758	27-Apr-15	ENG BOR D1 D2 D3 D4.	133338.426	1440
722023.961	4294291.98	7764	27-Apr-15	ENG BOR D1 D2 D3 D4.	132552.749	654
721990.667	4294305.096	7766	27-Apr-15	ENG BOR D1 D2 D3 D4.	132777.4041	879
722011.138	4294293.498	7766	27-Apr-15	ENG BOR D1 D2 D3 D4.	133028.399	1130
721991.202	4294298.499	7767	27-Apr-15	ENG BOR D1 D2 D3 D4.	133385.449	1487
721981.621	4294323.986	7772	27-Apr-15	ENG BOR D1 D2 D3 D4.	133427.407	1529
721990.559	4294305.382	7774	27-Apr-15	ENG BOR D1 D2 D3 D4.	132932.408	1034
721986.517	4294315.358	7775	27-Apr-15	ENG BOR D1 D2 D3 D4.	132913.424	1015
722011.155	4294298.703	7779	27-Apr-15	ENG BOR D1 D2 D3 D4.	132734.64	836
722022.718	4294295.531	7783	27-Apr-15	ENG BOR D1 D2 D3 D4.	132450.685	552
721978.45	4294336.137	7784	27-Apr-15	ENG BOR D1 D2 D3 D4.	132870.455	972
722023.284	4294295.278	7786	27-Apr-15	ENG BOR D1 D2 D3 D4.	132529.675	631
721988.363	4294311.544	7788	27-Apr-15	ENG BOR D1 D2 D3 D4.	132788.38	890
722024.255	4294293.974	7793	27-Apr-15	ENG BOR D1 D2 D3 D4.	132537.654	639
721981.38	4294324.513	7793	27-Apr-15	ENG BOR D1 D2 D3 D4.	133428.467	1530
721986.206	4294316.613	7795	27-Apr-15	ENG BOR D1 D2 D3 D4.	132910.707	1012
721981.542	4294324.838	7796	27-Apr-15	ENG BOR D1 D2 D3 D4.	133468.313	1570
721981.565	4294324.703	7797	27-Apr-15	ENG BOR D1 D2 D3 D4.	133516.193	1615
722005.213	4294294.652	7799	27-Apr-15	ENG BOR D1 D2 D3 D4.	133038.6479	1140
721983.874	4294323.247	7800	27-Apr-15	ENG BOR D1 D2 D3 D4.	132897.459	999
721980.945	4294326.208	7800	27-Apr-15	ENG BOR D1 D2 D3 D4.	133179.609	1281
721991.303	4294298.5	7800	27-Apr-15	ENG BOR D1 D2 D3 D4.	133334.411	1436
721981.551	4294324.812	7801	27-Apr-15	ENG BOR D1 D2 D3 D4.	133473.369	1575
721994.288	4294298.681	7802	27-Apr-15	ENG BOR D1 D2 D3 D4.	132951.426	1053
721995.676	4294299.552	7805	27-Apr-15	ENG BOR D1 D2 D3 D4.	132759.667	861
722009.087	4294298.887	7809	27-Apr-15	ENG BOR D1 D2 D3 D4.	132737.681	839
721990.02	4294306.876	7810	27-Apr-15	ENG BOR D1 D2 D3 D4.	132780.723	882
722007.185	4294294.802	7810	27-Apr-15	ENG BOR D1 D2 D3 D4.	133277.402	1379
722023.225	4294294.83	7811	27-Apr-15	ENG BOR D1 D2 D3 D4.	132535.678	637
721998.887	4294299.79	7812	27-Apr-15	ENG BOR D1 D2 D3 D4.	132754.355	856
721981.385	4294324.775	7813	27-Apr-15	ENG BOR D1 D2 D3 D4.	133445.4091	1547
721975.808	4294343.17	7814	27-Apr-15	ENG BOR D1 D2 D3 D4.	132843.703	945

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722026.539	4294293.523	7815	27-Apr-15	ENG BOR D1 D2 D3 D4.	132523.905	625
721977.248	4294338.905	7817	27-Apr-15	ENG BOR D1 D2 D3 D4.	132863.512	965
722025.499	4294292.75	7822	27-Apr-15	ENG BOR D1 D2 D3 D4.	132540.68	642
721993.066	4294299.158	7823	27-Apr-15	ENG BOR D1 D2 D3 D4.	132946.689	1048
721987.365	4294308.647	7824	27-Apr-15	ENG BOR D1 D2 D3 D4.	133210.479	1312
722027.251	4294292.413	7828	27-Apr-15	ENG BOR D1 D2 D3 D4.	132442.52	544
721982.483	4294321.936	7831	27-Apr-15	ENG BOR D1 D2 D3 D4.	133424.29	1526
722001.099	4294295.196	7832	27-Apr-15	ENG BOR D1 D2 D3 D4.	133245.463	1347
721988.199	4294306.652	7836	27-Apr-15	ENG BOR D1 D2 D3 D4.	133079.662	1181
722002.995	4294295.201	7836	27-Apr-15	ENG BOR D1 D2 D3 D4.	133042.61	1144
721981.921	4294324.867	7836	27-Apr-15	ENG BOR D1 D2 D3 D4.	133113.455	1215
721991.368	4294298.735	7840	27-Apr-15	ENG BOR D1 D2 D3 D4.	133309.6219	1411
721986.45	4294317.251	7844	27-Apr-15	ENG BOR D1 D2 D3 D4.	132798.457	900
721981.728	4294329.318	7848	27-Apr-15	ENG BOR D1 D2 D3 D4.	132820.385	922
722009.906	4294293.756	7848	27-Apr-15	ENG BOR D1 D2 D3 D4.	133258.292	1360
721997.901	4294296.136	7852	27-Apr-15	ENG BOR D1 D2 D3 D4.	133051.566	1153
721987.795	4294307.331	7854	27-Apr-15	ENG BOR D1 D2 D3 D4.	133212.421	1314
721986.602	4294316.785	7855	27-Apr-15	ENG BOR D1 D2 D3 D4.	132797.661	899
721983.414	4294320.372	7855	27-Apr-15	ENG BOR D1 D2 D3 D4.	133190.366	1292
722009.332	4294294.356	7855	27-Apr-15	ENG BOR D1 D2 D3 D4.	133274.424	1376
722022.78	4294297.339	7856	27-Apr-15	ENG BOR D1 D2 D3 D4.	132510.658	612
721978.292	4294336.52	7856	27-Apr-15	ENG BOR D1 D2 D3 D4.	132869.651	971
721991.289	4294298.477	7861	27-Apr-15	ENG BOR D1 D2 D3 D4.	133341.447	1443
721991.25	4294298.485	7861	27-Apr-15	ENG BOR D1 D2 D3 D4.	133375.408	1477
721981.38	4294324.747	7861	27-Apr-15	ENG BOR D1 D2 D3 D4.	133440.363	1542
721985.464	4294319.132	7863	27-Apr-15	ENG BOR D1 D2 D3 D4.	132905.55	1007
722021.873	4294296.923	7864	27-Apr-15	ENG BOR D1 D2 D3 D4.	132705.697	807
721991.25	4294298.501	7864	27-Apr-15	ENG BOR D1 D2 D3 D4.	133363.2061	1465
721991.296	4294298.488	7871	27-Apr-15	ENG BOR D1 D2 D3 D4.	133337.412	1439
722010.583	4294293.615	7872	27-Apr-15	ENG BOR D1 D2 D3 D4.	133259.636	1361
722021.466	4294294.777	7875	27-Apr-15	ENG BOR D1 D2 D3 D4.	132454.432	556
722013.247	4294293.35	7879	27-Apr-15	ENG BOR D1 D2 D3 D4.	133024.571	1126
721983.874	4294323.806	7880	27-Apr-15	ENG BOR D1 D2 D3 D4.	132810.386	912
722026.586	4294293.537	7884	27-Apr-15	ENG BOR D1 D2 D3 D4.	132444.664	546
721978.601	4294335.7	7886	27-Apr-15	ENG BOR D1 D2 D3 D4.	132871.3459	973
722016.423	4294297.84	7888	27-Apr-15	ENG BOR D1 D2 D3 D4.	132726.705	828
722023.914	4294295.148	7890	27-Apr-15	ENG BOR D1 D2 D3 D4.	132448.688	550
721979.686	4294333.702	7894	27-Apr-15	ENG BOR D1 D2 D3 D4.	132828.448	930
721977.315	4294335.183	7894	27-Apr-15	ENG BOR D1 D2 D3 D4.	133164.41	1266
722025.914	4294292.292	7895	27-Apr-15	ENG BOR D1 D2 D3 D4.	132541.642	643
721977.477	4294338.349	7898	27-Apr-15	ENG BOR D1 D2 D3 D4.	132865.652	967
721990.06	4294302.311	7899	27-Apr-15	ENG BOR D1 D2 D3 D4.	133071.693	1173
721998.588	4294296.311	7902	27-Apr-15	ENG BOR D1 D2 D3 D4.	133290.392	1392
721978.792	4294335.168	7903	27-Apr-15	ENG BOR D1 D2 D3 D4.	132872.399	974
721992.789	4294299.505	7904	27-Apr-15	ENG BOR D1 D2 D3 D4.	132765.582	867
722011.675	4294293.389	7904	27-Apr-15	ENG BOR D1 D2 D3 D4.	133027.521	1129
722004.237	4294294.905	7905	27-Apr-15	ENG BOR D1 D2 D3 D4.	133040.449	1142

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721982.423	4294323.898	7905	27-Apr-15	ENG BOR D1 D2 D3 D4.	133111.354	1213
722023.045	4294293.717	7910	27-Apr-15	ENG BOR D1 D2 D3 D4.	132661.646	763
721991.245	4294298.713	7914	27-Apr-15	ENG BOR D1 D2 D3 D4.	133325.347	1427
722005.249	4294294.521	7918	27-Apr-15	ENG BOR D1 D2 D3 D4.	133251.431	1353
721976.762	4294337.668	7924	27-Apr-15	ENG BOR D1 D2 D3 D4.	133139.656	1241
721990.14	4294300.023	7924	27-Apr-15	ENG BOR D1 D2 D3 D4.	133225.606	1327
721989.416	4294308.612	7925	27-Apr-15	ENG BOR D1 D2 D3 D4.	132783.624	885
721993.211	4294299.016	7926	27-Apr-15	ENG BOR D1 D2 D3 D4.	132947.422	1049
721981.544	4294324.817	7927	27-Apr-15	ENG BOR D1 D2 D3 D4.	133472.364	1574
722027.23	4294292.935	7932	27-Apr-15	ENG BOR D1 D2 D3 D4.	132486.606	588
722021.845	4294295.631	7934	27-Apr-15	ENG BOR D1 D2 D3 D4.	132452.578	554
722020.092	4294297.218	7934	27-Apr-15	ENG BOR D1 D2 D3 D4.	132720.442	822
721981.384	4294324.755	7935	27-Apr-15	ENG BOR D1 D2 D3 D4.	133441.339	1543
721992.712	4294299.978	7937	27-Apr-15	ENG BOR D1 D2 D3 D4.	132944.521	1046
721996.511	4294296.721	7938	27-Apr-15	ENG BOR D1 D2 D3 D4.	133293.408	1395
721991.302	4294298.486	7938	27-Apr-15	ENG BOR D1 D2 D3 D4.	133349.46	1451
722021.369	4294296.79	7939	27-Apr-15	ENG BOR D1 D2 D3 D4.	132704.673	806
721979.127	4294334.804	7941	27-Apr-15	ENG BOR D1 D2 D3 D4.	132830.356	932
721992.77	4294297.397	7943	27-Apr-15	ENG BOR D1 D2 D3 D4.	133061.54	1163
722022.871	4294296.603	7945	27-Apr-15	ENG BOR D1 D2 D3 D4.	132708.438	810
722022.67	4294295.508	7946	27-Apr-15	ENG BOR D1 D2 D3 D4.	132530.552	632
721989.166	4294301.851	7947	27-Apr-15	ENG BOR D1 D2 D3 D4.	133395.4611	1497
721981.559	4294324.809	7950	27-Apr-15	ENG BOR D1 D2 D3 D4.	133474.124	1576
721990.389	4294299.635	7951	27-Apr-15	ENG BOR D1 D2 D3 D4.	133226.401	1328
721983.2	4294321.052	7952	27-Apr-15	ENG BOR D1 D2 D3 D4.	133106.493	1208
721981.488	4294324.829	7954	27-Apr-15	ENG BOR D1 D2 D3 D4.	133464.162	1566
721975.96	4294338.9	7956	27-Apr-15	ENG BOR D1 D2 D3 D4.	133158.302	1260
721978.672	4294332.227	7959	27-Apr-15	ENG BOR D1 D2 D3 D4.	133169.449	1271
721976.668	4294340.298	7961	27-Apr-15	ENG BOR D1 D2 D3 D4.	132855.671	957
721997.911	4294295.845	7963	27-Apr-15	ENG BOR D1 D2 D3 D4.	133241.395	1343
722022.172	4294296.912	7966	27-Apr-15	ENG BOR D1 D2 D3 D4.	132706.362	808
722023.476	4294297.828	7969	27-Apr-15	ENG BOR D1 D2 D3 D4.	132499.61	601
721981.394	4294324.839	7971	27-Apr-15	ENG BOR D1 D2 D3 D4.	133449.165	1551
721981.319	4294324.631	7972	27-Apr-15	ENG BOR D1 D2 D3 D4.	133432.406	1534
722022.033	4294295.687	7975	27-Apr-15	ENG BOR D1 D2 D3 D4.	132451.853	553
721994.879	4294298.551	7980	27-Apr-15	ENG BOR D1 D2 D3 D4.	132952.457	1054
721983.667	4294318.054	7981	27-Apr-15	ENG BOR D1 D2 D3 D4.	133418.353	1520
722004.13	4294299.346	7984	27-Apr-15	ENG BOR D1 D2 D3 D4.	132745.4091	847
722023.943	4294294.943	7985	27-Apr-15	ENG BOR D1 D2 D3 D4.	132528.623	630
721991.407	4294297.7	7986	27-Apr-15	ENG BOR D1 D2 D3 D4.	133230.521	1332
722008.108	4294298.925	7988	27-Apr-15	ENG BOR D1 D2 D3 D4.	132739.453	841
721996.927	4294298.184	7989	27-Apr-15	ENG BOR D1 D2 D3 D4.	132956.4139	1058
722022.744	4294297.857	7991	27-Apr-15	ENG BOR D1 D2 D3 D4.	132504.753	606
721983.759	4294319.119	7991	27-Apr-15	ENG BOR D1 D2 D3 D4.	133192.468	1294
721983.144	4294319.372	7991	27-Apr-15	ENG BOR D1 D2 D3 D4.	133420.1851	1522
722009.354	4294293.797	7992	27-Apr-15	ENG BOR D1 D2 D3 D4.	133257.447	1359
721981.606	4294324.841	7994	27-Apr-15	ENG BOR D1 D2 D3 D4.	133484.312	1586

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721991.295	4294298.487	7995	27-Apr-15	ENG BOR D1 D2 D3 D4.	133348.408	1450
722024.008	4294297.359	7996	27-Apr-15	ENG BOR D1 D2 D3 D4.	132497.452	599
722020.974	4294296.411	7996	27-Apr-15	ENG BOR D1 D2 D3 D4.	132703.625	805
721985.621	4294312.333	7999	27-Apr-15	ENG BOR D1 D2 D3 D4.	133203.354	1305
721981.588	4294324.728	8000	27-Apr-15	ENG BOR D1 D2 D3 D4.	133513.317	1612
721984.034	4294323.381	8002	27-Apr-15	ENG BOR D1 D2 D3 D4.	132809.637	911
721986.771	4294314.833	8003	27-Apr-15	ENG BOR D1 D2 D3 D4.	132914.517	1016
721985.807	4294313.618	8006	27-Apr-15	ENG BOR D1 D2 D3 D4.	133092.437	1194
722022.176	4294292.363	8009	27-Apr-15	ENG BOR D1 D2 D3 D4.	132555.613	657
721981.627	4294326.799	8013	27-Apr-15	ENG BOR D1 D2 D3 D4.	133121.548	1223
721985.267	4294315.255	8015	27-Apr-15	ENG BOR D1 D2 D3 D4.	133095.576	1197
722022.313	4294291.303	8016	27-Apr-15	ENG BOR D1 D2 D3 D4.	132345.736	447
721985.39	4294320.125	8019	27-Apr-15	ENG BOR D1 D2 D3 D4.	132803.632	905
721991.062	4294298.702	8019	27-Apr-15	ENG BOR D1 D2 D3 D4.	133228.3051	1330
721978.068	4294336.99	8024	27-Apr-15	ENG BOR D1 D2 D3 D4.	132868.605	970
721991.241	4294298.498	8026	27-Apr-15	ENG BOR D1 D2 D3 D4.	133364.334	1466
721984.35	4294315.757	8027	27-Apr-15	ENG BOR D1 D2 D3 D4.	133415.157	1517
721981.547	4294324.838	8027	27-Apr-15	ENG BOR D1 D2 D3 D4.	133467.443	1569
722027.954	4294294.422	8038	27-Apr-15	ENG BOR D1 D2 D3 D4.	132489.626	591
721982.004	4294325.235	8038	27-Apr-15	ENG BOR D1 D2 D3 D4.	133117.455	1219
721981.979	4294325.465	8039	27-Apr-15	ENG BOR D1 D2 D3 D4.	133118.3521	1220
721994.702	4294299.519	8040	27-Apr-15	ENG BOR D1 D2 D3 D4.	132761.5439	863
722004.491	4294295.245	8040	27-Apr-15	ENG BOR D1 D2 D3 D4.	133281.407	1383
721991.273	4294298.507	8043	27-Apr-15	ENG BOR D1 D2 D3 D4.	133359.4041	1461
721991.249	4294298.489	8045	27-Apr-15	ENG BOR D1 D2 D3 D4.	133370.605	1472
722026.466	4294291.308	8046	27-Apr-15	ENG BOR D1 D2 D3 D4.	132543.69	645
721975.961	4294339.958	8046	27-Apr-15	ENG BOR D1 D2 D3 D4.	133143.597	1245
721983.832	4294317.284	8046	27-Apr-15	ENG BOR D1 D2 D3 D4.	133417.283	1519
722005.706	4294294.907	8048	27-Apr-15	ENG BOR D1 D2 D3 D4.	133279.537	1381
722014.707	4294298.165	8050	27-Apr-15	ENG BOR D1 D2 D3 D4.	132729.491	831
722022.65	4294297.782	8051	27-Apr-15	ENG BOR D1 D2 D3 D4.	132506.65	608
721984.746	4294321.785	8051	27-Apr-15	ENG BOR D1 D2 D3 D4.	132806.554	908
721998.289	4294297.928	8051	27-Apr-15	ENG BOR D1 D2 D3 D4.	132958.543	1060
721980.159	4294330.491	8064	27-Apr-15	ENG BOR D1 D2 D3 D4.	133127.434	1229
721992.413	4294299.485	8066	27-Apr-15	ENG BOR D1 D2 D3 D4.	132766.6479	868
721982.177	4294324.415	8066	27-Apr-15	ENG BOR D1 D2 D3 D4.	133112.406	1214
721980.847	4294328.682	8066	27-Apr-15	ENG BOR D1 D2 D3 D4.	133124.443	1226
722024.711	4294296.814	8068	27-Apr-15	ENG BOR D1 D2 D3 D4.	132495.784	597
721981.568	4294324.683	8069	27-Apr-15	ENG BOR D1 D2 D3 D4.	133517.299	1616
721979.21	4294332.558	8077	27-Apr-15	ENG BOR D1 D2 D3 D4.	133130.417	1232
721981.442	4294324.812	8077	27-Apr-15	ENG BOR D1 D2 D3 D4.	133461.312	1563
721978.866	4294331.714	8079	27-Apr-15	ENG BOR D1 D2 D3 D4.	133170.327	1272
721996.771	4294296.355	8080	27-Apr-15	ENG BOR D1 D2 D3 D4.	133053.5229	1155
721985.845	4294318.062	8081	27-Apr-15	ENG BOR D1 D2 D3 D4.	132907.5909	1009
722023.288	4294297.987	8082	27-Apr-15	ENG BOR D1 D2 D3 D4.	132500.653	602
722006.512	4294296.402	8082	27-Apr-15	ENG BOR D1 D2 D3 D4.	132972.5959	1074
721982.916	4294321.633	8084	27-Apr-15	ENG BOR D1 D2 D3 D4.	133188.254	1290

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722010.882	4294293.496	8088	27-Apr-15	ENG BOR D1 D2 D3 D4.	133260.423	1362
721981.637	4294324.788	8090	27-Apr-15	ENG BOR D1 D2 D3 D4.	133498.453	1600
722022.913	4294298.07	8095	27-Apr-15	ENG BOR D1 D2 D3 D4.	132502.604	604
721991.301	4294298.563	8100	27-Apr-15	ENG BOR D1 D2 D3 D4.	133328.485	1430
721991.3	4294298.494	8100	27-Apr-15	ENG BOR D1 D2 D3 D4.	133335.49	1437
721981.374	4294324.665	8100	27-Apr-15	ENG BOR D1 D2 D3 D4.	133437.4	1539
721982.593	4294323.413	8102	27-Apr-15	ENG BOR D1 D2 D3 D4.	133110.459	1212
721977.694	4294335.696	8109	27-Apr-15	ENG BOR D1 D2 D3 D4.	133135.604	1237
721986.218	4294317.876	8111	27-Apr-15	ENG BOR D1 D2 D3 D4.	132799.5699	901
721976.881	4294336.26	8113	27-Apr-15	ENG BOR D1 D2 D3 D4.	133162.545	1264
721981.595	4294324.738	8117	27-Apr-15	ENG BOR D1 D2 D3 D4.	133510.186	1609
722021.638	4294294.15	8119	27-Apr-15	ENG BOR D1 D2 D3 D4.	132658.377	760
721981.652	4294324.762	8119	27-Apr-15	ENG BOR D1 D2 D3 D4.	133501.403	1603
721981.621	4294324.803	8121	27-Apr-15	ENG BOR D1 D2 D3 D4.	133497.467	1599
721981.44	4294324.808	8122	27-Apr-15	ENG BOR D1 D2 D3 D4.	133457.437	1559
721991.267	4294298.483	8130	27-Apr-15	ENG BOR D1 D2 D3 D4.	133372.29	1474
721989.212	4294309.146	8131	27-Apr-15	ENG BOR D1 D2 D3 D4.	132784.424	886
722014.089	4294298.275	8132	27-Apr-15	ENG BOR D1 D2 D3 D4.	132730.474	832
721981.023	4294330.055	8133	27-Apr-15	ENG BOR D1 D2 D3 D4.	132882.661	984
721988.942	4294309.599	8137	27-Apr-15	ENG BOR D1 D2 D3 D4.	132924.467	1026
722010.126	4294294.181	8139	27-Apr-15	ENG BOR D1 D2 D3 D4.	133273.406	1375
721990.503	4294298.742	8139	27-Apr-15	ENG BOR D1 D2 D3 D4.	133391.347	1493
721986.337	4294309.927	8142	27-Apr-15	ENG BOR D1 D2 D3 D4.	133406.45	1508
721986.792	4294316.154	8143	27-Apr-15	ENG BOR D1 D2 D3 D4.	132796.618	898
721993.746	4294299.635	8145	27-Apr-15	ENG BOR D1 D2 D3 D4.	132763.441	865
721991.304	4294298.508	8146	27-Apr-15	ENG BOR D1 D2 D3 D4.	133356.455	1458
722023.451	4294292.065	8151	27-Apr-15	ENG BOR D1 D2 D3 D4.	132553.712	655
721983.183	4294325.589	8152	27-Apr-15	ENG BOR D1 D2 D3 D4.	132813.6591	915
722027.115	4294291.978	8154	27-Apr-15	ENG BOR D1 D2 D3 D4.	132441.71	543
722005.73	4294294.563	8157	27-Apr-15	ENG BOR D1 D2 D3 D4.	133037.756	1139
721981.367	4294324.603	8160	27-Apr-15	ENG BOR D1 D2 D3 D4.	133435.363	1537
721981.866	4294325.204	8169	27-Apr-15	ENG BOR D1 D2 D3 D4.	133114.293	1216
722018.302	4294297.551	8171	27-Apr-15	ENG BOR D1 D2 D3 D4.	132723.6591	825
721981.375	4294324.694	8175	27-Apr-15	ENG BOR D1 D2 D3 D4.	133438.248	1540
721992.027	4294300.069	8176	27-Apr-15	ENG BOR D1 D2 D3 D4.	132768.361	870
721979.713	4294329.269	8180	27-Apr-15	ENG BOR D1 D2 D3 D4.	133174.376	1276
721981.428	4294324.817	8180	27-Apr-15	ENG BOR D1 D2 D3 D4.	133458.502	1560
721999.438	4294297.658	8183	27-Apr-15	ENG BOR D1 D2 D3 D4.	132960.458	1062
721991.306	4294298.493	8183	27-Apr-15	ENG BOR D1 D2 D3 D4.	133351.432	1453
721991.244	4294298.492	8183	27-Apr-15	ENG BOR D1 D2 D3 D4.	133369.488	1471
721985.886	4294318.872	8186	27-Apr-15	ENG BOR D1 D2 D3 D4.	132801.381	903
721986.133	4294311.319	8187	27-Apr-15	ENG BOR D1 D2 D3 D4.	133205.674	1307
721989.432	4294308.547	8188	27-Apr-15	ENG BOR D1 D2 D3 D4.	132926.567	1028
722008.674	4294298.93	8192	27-Apr-15	ENG BOR D1 D2 D3 D4.	132738.472	840
721982.198	4294322.708	8197	27-Apr-15	ENG BOR D1 D2 D3 D4.	133425.39	1527
722025.382	4294291.054	8199	27-Apr-15	ENG BOR D1 D2 D3 D4.	132669.72	771
721988.708	4294303.471	8199	27-Apr-15	ENG BOR D1 D2 D3 D4.	133397.395	1499

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722008.378	4294296.024	8200	27-Apr-15	ENG BOR D1 D2 D3 D4.	132975.569	1077
722007.904	4294294.64	8201	27-Apr-15	ENG BOR D1 D2 D3 D4.	133276.3521	1378
722022.824	4294298.053	8203	27-Apr-15	ENG BOR D1 D2 D3 D4.	132503.652	605
721995.411	4294296.968	8206	27-Apr-15	ENG BOR D1 D2 D3 D4.	133295.457	1397
721984.778	4294314.965	8211	27-Apr-15	ENG BOR D1 D2 D3 D4.	133198.37	1300
721991.439	4294298.683	8211	27-Apr-15	ENG BOR D1 D2 D3 D4.	133307.501	1409
722022.194	4294295.436	8214	27-Apr-15	ENG BOR D1 D2 D3 D4.	132533.688	635
721988.195	4294312.09	8217	27-Apr-15	ENG BOR D1 D2 D3 D4.	132789.42	891
721982.73	4294322.033	8217	27-Apr-15	ENG BOR D1 D2 D3 D4.	133187.442	1289
722004.675	4294294.804	8220	27-Apr-15	ENG BOR D1 D2 D3 D4.	133039.653	1141
721991.277	4294298.786	8225	27-Apr-15	ENG BOR D1 D2 D3 D4.	133313.472	1415
721978.937	4294333.131	8229	27-Apr-15	ENG BOR D1 D2 D3 D4.	133131.4091	1233
721981.583	4294324.803	8230	27-Apr-15	ENG BOR D1 D2 D3 D4.	133477.314	1579
721989.785	4294301.019	8231	27-Apr-15	ENG BOR D1 D2 D3 D4.	133223.403	1325
722000.492	4294299.655	8233	27-Apr-15	ENG BOR D1 D2 D3 D4.	132751.647	853
722000.048	4294299.673	8238	27-Apr-15	ENG BOR D1 D2 D3 D4.	132752.407	854
721981.65	4294324.767	8238	27-Apr-15	ENG BOR D1 D2 D3 D4.	133500.161	1602
721994.026	4294297.275	8241	27-Apr-15	ENG BOR D1 D2 D3 D4.	133298.381	1400
721991.343	4294298.741	8245	27-Apr-15	ENG BOR D1 D2 D3 D4.	133311.481	1413
721981.435	4294324.817	8249	27-Apr-15	ENG BOR D1 D2 D3 D4.	133456.364	1558
722024.835	4294291.737	8251	27-Apr-15	ENG BOR D1 D2 D3 D4.	132549.69	651
722023.735	4294294.412	8252	27-Apr-15	ENG BOR D1 D2 D3 D4.	132536.609	638
722017.785	4294297.565	8253	27-Apr-15	ENG BOR D1 D2 D3 D4.	132724.438	826
722023.233	4294296.407	8256	27-Apr-15	ENG BOR D1 D2 D3 D4.	132709.545	811
721989.617	4294303.378	8256	27-Apr-15	ENG BOR D1 D2 D3 D4.	133073.603	1175
721989.614	4294308.041	8257	27-Apr-15	ENG BOR D1 D2 D3 D4.	132927.496	1029
722025.908	4294295.645	8258	27-Apr-15	ENG BOR D1 D2 D3 D4.	132493.618	595
722003.704	4294294.787	8259	27-Apr-15	ENG BOR D1 D2 D3 D4.	133249.2939	1351
721984.759	4294314.591	8262	27-Apr-15	ENG BOR D1 D2 D3 D4.	133199.373	1301
721984.86	4294316.36	8263	27-Apr-15	ENG BOR D1 D2 D3 D4.	133097.436	1199
721976.324	4294338.689	8265	27-Apr-15	ENG BOR D1 D2 D3 D4.	133141.399	1243
721991.306	4294298.502	8266	27-Apr-15	ENG BOR D1 D2 D3 D4.	133353.426	1455
721987.505	4294314.467	8267	27-Apr-15	ENG BOR D1 D2 D3 D4.	132793.5439	895
721981.592	4294324.844	8269	27-Apr-15	ENG BOR D1 D2 D3 D4.	133487.439	1589
721989.208	4294308.995	8274	27-Apr-15	ENG BOR D1 D2 D3 D4.	132925.707	1027
721989.752	4294307.551	8274	27-Apr-15	ENG BOR D1 D2 D3 D4.	132928.3929	1030
721991.23	4294298.816	8275	27-Apr-15	ENG BOR D1 D2 D3 D4.	133322.474	1424
722027.748	4294293.551	8278	27-Apr-15	ENG BOR D1 D2 D3 D4.	132521.75	623
721981.531	4294324.826	8280	27-Apr-15	ENG BOR D1 D2 D3 D4.	133470.522	1572
721991.257	4294298.487	8281	27-Apr-15	ENG BOR D1 D2 D3 D4.	133371.433	1473
721975.134	4294341.881	8287	27-Apr-15	ENG BOR D1 D2 D3 D4.	133146.314	1248
721988.363	4294304.33	8289	27-Apr-15	ENG BOR D1 D2 D3 D4.	133398.391	1500
721976.758	4294339.947	8290	27-Apr-15	ENG BOR D1 D2 D3 D4.	132856.599	958
721997.622	4294299.877	8296	27-Apr-15	ENG BOR D1 D2 D3 D4.	132756.45	858
721987.777	4294312.246	8302	27-Apr-15	ENG BOR D1 D2 D3 D4.	132919.3669	1021
722012.368	4294293.154	8302	27-Apr-15	ENG BOR D1 D2 D3 D4.	133265.558	1367
721978.246	4294333.391	8304	27-Apr-15	ENG BOR D1 D2 D3 D4.	133167.5	1269

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721981.537	4294324.822	8310	27-Apr-15	ENG BOR D1 D2 D3 D4.	133471.374	1573
721993.389	4294298.834	8311	27-Apr-15	ENG BOR D1 D2 D3 D4.	132948.391	1050
721979.48	4294332.026	8311	27-Apr-15	ENG BOR D1 D2 D3 D4.	133129.5601	1231
721985.381	4294312.871	8313	27-Apr-15	ENG BOR D1 D2 D3 D4.	133202.467	1304
721977.704	4294337.94	8314	27-Apr-15	ENG BOR D1 D2 D3 D4.	132835.412	937
721978.329	4294334.323	8314	27-Apr-15	ENG BOR D1 D2 D3 D4.	133133.402	1235
721991.741	4294302.254	8316	27-Apr-15	ENG BOR D1 D2 D3 D4.	132938.396	1040
721978.466	4294332.833	8316	27-Apr-15	ENG BOR D1 D2 D3 D4.	133168.41	1270
721983.635	4294319.78	8317	27-Apr-15	ENG BOR D1 D2 D3 D4.	133104.238	1206
721986.322	4294310.892	8317	27-Apr-15	ENG BOR D1 D2 D3 D4.	133206.553	1308
721988.959	4294302.567	8317	27-Apr-15	ENG BOR D1 D2 D3 D4.	133396.386	1498
721981.585	4294324.803	8319	27-Apr-15	ENG BOR D1 D2 D3 D4.	133476.449	1578
721997.418	4294296.224	8323	27-Apr-15	ENG BOR D1 D2 D3 D4.	133052.403	1154
721989.611	4294301.622	8326	27-Apr-15	ENG BOR D1 D2 D3 D4.	133222.342	1324
722022.653	4294297.805	8327	27-Apr-15	ENG BOR D1 D2 D3 D4.	132505.887	607
721997.599	4294298.065	8327	27-Apr-15	ENG BOR D1 D2 D3 D4.	132957.453	1059
721976.667	4294336.878	8333	27-Apr-15	ENG BOR D1 D2 D3 D4.	133161.453	1263
722020.585	4294296.977	8337	27-Apr-15	ENG BOR D1 D2 D3 D4.	132719.626	821
721988.792	4294310.481	8338	27-Apr-15	ENG BOR D1 D2 D3 D4.	132786.55	888
721989.926	4294307.005	8338	27-Apr-15	ENG BOR D1 D2 D3 D4.	132929.433	1031
721981.594	4294324.84	8339	27-Apr-15	ENG BOR D1 D2 D3 D4.	133483.197	1585
721980.681	4294331.337	8340	27-Apr-15	ENG BOR D1 D2 D3 D4.	132824.3879	926
722021.649	4294295.23	8343	27-Apr-15	ENG BOR D1 D2 D3 D4.	132453.648	555
721991.56	4294302.439	8344	27-Apr-15	ENG BOR D1 D2 D3 D4.	132772.46	874
721981.402	4294324.84	8348	27-Apr-15	ENG BOR D1 D2 D3 D4.	133453.403	1555
722002.401	4294295.313	8349	27-Apr-15	ENG BOR D1 D2 D3 D4.	133043.66	1145
721992.509	4294300.423	8350	27-Apr-15	ENG BOR D1 D2 D3 D4.	132943.403	1045
722021.531	4294293.977	8359	27-Apr-15	ENG BOR D1 D2 D3 D4.	132657.507	759
722023.711	4294297.613	8359	27-Apr-15	ENG BOR D1 D2 D3 D4.	132498.57	600
721981.65	4294324.763	8359	27-Apr-15	ENG BOR D1 D2 D3 D4.	133502.108	1604
721979.376	4294334.322	8363	27-Apr-15	ENG BOR D1 D2 D3 D4.	132829.549	931
722005.359	4294296.568	8363	27-Apr-15	ENG BOR D1 D2 D3 D4.	132970.532	1072
721989.425	4294303.84	8364	27-Apr-15	ENG BOR D1 D2 D3 D4.	133074.406	1176
721981.315	4294324.742	8368	27-Apr-15	ENG BOR D1 D2 D3 D4.	133429.5389	1531
722026.333	4294290.923	8371	27-Apr-15	ENG BOR D1 D2 D3 D4.	132544.783	646
721975.633	4294343.691	8373	27-Apr-15	ENG BOR D1 D2 D3 D4.	132844.465	946
721984.463	4294315.971	8375	27-Apr-15	ENG BOR D1 D2 D3 D4.	133196.399	1298
721987.164	4294309.139	8378	27-Apr-15	ENG BOR D1 D2 D3 D4.	133209.658	1311
721981.389	4294324.818	8378	27-Apr-15	ENG BOR D1 D2 D3 D4.	133447.358	1549
721980.419	4294329.858	8379	27-Apr-15	ENG BOR D1 D2 D3 D4.	133126.446	1228
721983.208	4294320.962	8381	27-Apr-15	ENG BOR D1 D2 D3 D4.	133189.441	1291
722006.52	4294294.364	8391	27-Apr-15	ENG BOR D1 D2 D3 D4.	133036.421	1138
721999.08	4294295.98	8393	27-Apr-15	ENG BOR D1 D2 D3 D4.	133049.536	1151
721981.569	4294324.832	8393	27-Apr-15	ENG BOR D1 D2 D3 D4.	133491.405	1593
721981.534	4294324.83	8399	27-Apr-15	ENG BOR D1 D2 D3 D4.	133469.4659	1571
721991.302	4294298.514	8401	27-Apr-15	ENG BOR D1 D2 D3 D4.	133333.324	1435
721981.232	4294330.285	8403	27-Apr-15	ENG BOR D1 D2 D3 D4.	132822.41	924

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721981.376	4294324.725	8403	27-Apr-15	ENG BOR D1 D2 D3 D4.	133439.326	1541
721981.426	4294324.822	8405	27-Apr-15	ENG BOR D1 D2 D3 D4.	133459.403	1561
721993.765	4294298.752	8409	27-Apr-15	ENG BOR D1 D2 D3 D4.	132950.401	1052
721983.369	4294320.465	8409	27-Apr-15	ENG BOR D1 D2 D3 D4.	133105.494	1207
721981.334	4294324.618	8413	27-Apr-15	ENG BOR D1 D2 D3 D4.	133433.451	1535
722020.37	4294293.813	8417	27-Apr-15	ENG BOR D1 D2 D3 D4.	132698.442	800
721989.966	4294300.461	8418	27-Apr-15	ENG BOR D1 D2 D3 D4.	133224.604	1326
721984.822	4294314.091	8425	27-Apr-15	ENG BOR D1 D2 D3 D4.	133200.397	1302
721991.31	4294298.504	8426	27-Apr-15	ENG BOR D1 D2 D3 D4.	133354.4611	1456
721983.761	4294319.383	8430	27-Apr-15	ENG BOR D1 D2 D3 D4.	133103.511	1205
721987.808	4294313.375	8433	27-Apr-15	ENG BOR D1 D2 D3 D4.	132791.67	893
721992.29	4294297.608	8435	27-Apr-15	ENG BOR D1 D2 D3 D4.	133062.61	1164
721991.193	4294298.859	8435	27-Apr-15	ENG BOR D1 D2 D3 D4.	133318.421	1420
721985.627	4294319.581	8436	27-Apr-15	ENG BOR D1 D2 D3 D4.	132802.6379	904
721990.364	4294301.549	8436	27-Apr-15	ENG BOR D1 D2 D3 D4.	133070.4	1172
722025.657	4294291.474	8437	27-Apr-15	ENG BOR D1 D2 D3 D4.	132668.619	770
721999.529	4294295.503	8440	27-Apr-15	ENG BOR D1 D2 D3 D4.	133243.62	1345
722002.951	4294296.949	8441	27-Apr-15	ENG BOR D1 D2 D3 D4.	132966.453	1068
721998.653	4294295.662	8441	27-Apr-15	ENG BOR D1 D2 D3 D4.	133242.5129	1344
721984.972	4294321.243	8443	27-Apr-15	ENG BOR D1 D2 D3 D4.	132805.551	907
722005.866	4294299.099	8444	27-Apr-15	ENG BOR D1 D2 D3 D4.	132742.77	844
721991.309	4294303.126	8446	27-Apr-15	ENG BOR D1 D2 D3 D4.	132773.78	875
721984.968	4294320.276	8450	27-Apr-15	ENG BOR D1 D2 D3 D4.	132903.35	1005
721991.293	4294298.506	8456	27-Apr-15	ENG BOR D1 D2 D3 D4.	133357.465	1459
721994.282	4294299.577	8460	27-Apr-15	ENG BOR D1 D2 D3 D4.	132762.364	864
721980.17	4294332.45	8463	27-Apr-15	ENG BOR D1 D2 D3 D4.	132826.382	928
721991.874	4294300.847	8464	27-Apr-15	ENG BOR D1 D2 D3 D4.	132769.653	871
721995.887	4294296.889	8464	27-Apr-15	ENG BOR D1 D2 D3 D4.	133294.452	1396
721984.318	4294322.133	8467	27-Apr-15	ENG BOR D1 D2 D3 D4.	132899.646	1001
721991.168	4294298.85	8468	27-Apr-15	ENG BOR D1 D2 D3 D4.	133319.4709	1421
722002.801	4294299.474	8471	27-Apr-15	ENG BOR D1 D2 D3 D4.	132747.562	849
721977.204	4294336.683	8471	27-Apr-15	ENG BOR D1 D2 D3 D4.	133137.399	1239
721988.804	4294305.117	8472	27-Apr-15	ENG BOR D1 D2 D3 D4.	133076.6071	1178
721981.652	4294324.773	8472	27-Apr-15	ENG BOR D1 D2 D3 D4.	133499.454	1601
721997.201	4294296.588	8474	27-Apr-15	ENG BOR D1 D2 D3 D4.	133292.3879	1394
722025.579	4294293.995	8483	27-Apr-15	ENG BOR D1 D2 D3 D4.	132525.7	627
721991.174	4294298.843	8483	27-Apr-15	ENG BOR D1 D2 D3 D4.	133316.3051	1418
721994.494	4294297.187	8485	27-Apr-15	ENG BOR D1 D2 D3 D4.	133297.381	1399
721998.451	4294296.047	8488	27-Apr-15	ENG BOR D1 D2 D3 D4.	133050.598	1152
722027.59	4294294.697	8489	27-Apr-15	ENG BOR D1 D2 D3 D4.	132490.652	592
722025.093	4294293.174	8489	27-Apr-15	ENG BOR D1 D2 D3 D4.	132539.688	641
722027.753	4294293.559	8493	27-Apr-15	ENG BOR D1 D2 D3 D4.	132487.711	589
721999.695	4294295.895	8495	27-Apr-15	ENG BOR D1 D2 D3 D4.	133048.439	1150
721991.489	4294303.146	8495	27-Apr-15	ENG BOR D1 D2 D3 D4.	132936.526	1038
722026.63	4294291.371	8498	27-Apr-15	ENG BOR D1 D2 D3 D4.	132440.675	542
721981.599	4294324.831	8503	27-Apr-15	ENG BOR D1 D2 D3 D4.	133481.396	1583
721976.168	4294342.002	8508	27-Apr-15	ENG BOR D1 D2 D3 D4.	132841.777	943

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721983.016	4294326.045	8518	27-Apr-15	ENG BOR D1 D2 D3 D4.	132814.455	916
721991.284	4294298.592	8519	27-Apr-15	ENG BOR D1 D2 D3 D4.	133327.595	1429
721981.358	4294324.61	8523	27-Apr-15	ENG BOR D1 D2 D3 D4.	133434.351	1536
721987.902	4294307.55	8529	27-Apr-15	ENG BOR D1 D2 D3 D4.	133081.361	1183
721991.286	4294298.48	8529	27-Apr-15	ENG BOR D1 D2 D3 D4.	133345.429	1447
721981.921	4294323.351	8529	27-Apr-15	ENG BOR D1 D2 D3 D4.	133426.361	1528
722004.166	4294296.763	8530	27-Apr-15	ENG BOR D1 D2 D3 D4.	132968.595	1070
721985.269	4294319.576	8532	27-Apr-15	ENG BOR D1 D2 D3 D4.	132904.6379	1006
721991.283	4294298.505	8534	27-Apr-15	ENG BOR D1 D2 D3 D4.	133358.328	1460
722026.623	4294295.187	8535	27-Apr-15	ENG BOR D1 D2 D3 D4.	132518.486	620
721991.288	4294298.477	8535	27-Apr-15	ENG BOR D1 D2 D3 D4.	133342.417	1444
721977.997	4294337.36	8536	27-Apr-15	ENG BOR D1 D2 D3 D4.	132834.442	936
721977.204	4294339.269	8537	27-Apr-15	ENG BOR D1 D2 D3 D4.	132837.6121	939
721982.839	4294320.606	8539	27-Apr-15	ENG BOR D1 D2 D3 D4.	133422.186	1524
721985.728	4294311.959	8544	27-Apr-15	ENG BOR D1 D2 D3 D4.	133409.426	1511
721995.186	4294296.955	8546	27-Apr-15	ENG BOR D1 D2 D3 D4.	133056.439	1158
722003.891	4294295.438	8550	27-Apr-15	ENG BOR D1 D2 D3 D4.	133282.406	1384
721981.622	4294324.695	8551	27-Apr-15	ENG BOR D1 D2 D3 D4.	133507.343	1606
721981.407	4294324.837	8552	27-Apr-15	ENG BOR D1 D2 D3 D4.	133452.379	1554
721977.322	4294338.805	8554	27-Apr-15	ENG BOR D1 D2 D3 D4.	132864.351	966
721980.617	4294329.336	8556	27-Apr-15	ENG BOR D1 D2 D3 D4.	133125.5601	1227
721991.231	4294298.501	8556	27-Apr-15	ENG BOR D1 D2 D3 D4.	133366.415	1468
721993.5	4294298.748	8557	27-Apr-15	ENG BOR D1 D2 D3 D4.	132949.41	1051
721981.616	4294324.71	8557	27-Apr-15	ENG BOR D1 D2 D3 D4.	133508.493	1607
721980.276	4294327.967	8558	27-Apr-15	ENG BOR D1 D2 D3 D4.	133176.41	1278
721992.288	4294300.824	8559	27-Apr-15	ENG BOR D1 D2 D3 D4.	132942.353	1044
721991.189	4294303.62	8561	27-Apr-15	ENG BOR D1 D2 D3 D4.	132774.605	876
721991.395	4294298.719	8562	27-Apr-15	ENG BOR D1 D2 D3 D4.	133308.399	1410
721993.54	4294297.014	8564	27-Apr-15	ENG BOR D1 D2 D3 D4.	133234.4041	1336
721985.09	4294315.74	8573	27-Apr-15	ENG BOR D1 D2 D3 D4.	133096.4139	1198
721981.397	4294324.753	8574	27-Apr-15	ENG BOR D1 D2 D3 D4.	133444.293	1546
721982.096	4294328.305	8582	27-Apr-15	ENG BOR D1 D2 D3 D4.	132818.46	920
721981.593	4294324.731	8599	27-Apr-15	ENG BOR D1 D2 D3 D4.	133511.1949	1610
721985.659	4294314.167	8601	27-Apr-15	ENG BOR D1 D2 D3 D4.	133093.463	1195
721979.491	4294329.861	8601	27-Apr-15	ENG BOR D1 D2 D3 D4.	133173.526	1275
721981.393	4294324.825	8604	27-Apr-15	ENG BOR D1 D2 D3 D4.	133448.151	1550
722026.135	4294293.674	8613	27-Apr-15	ENG BOR D1 D2 D3 D4.	132524.653	626
722007.271	4294298.925	8614	27-Apr-15	ENG BOR D1 D2 D3 D4.	132740.682	842
721991.559	4294298.527	8614	27-Apr-15	ENG BOR D1 D2 D3 D4.	133305.475	1407
721991.305	4294298.49	8614	27-Apr-15	ENG BOR D1 D2 D3 D4.	133350.5601	1452
721987.551	4294308.044	8616	27-Apr-15	ENG BOR D1 D2 D3 D4.	133211.368	1313
721989.352	4294303.035	8616	27-Apr-15	ENG BOR D1 D2 D3 D4.	133219.447	1321
721985.538	4294312.579	8616	27-Apr-15	ENG BOR D1 D2 D3 D4.	133410.42	1512
721979.067	4294331.12	8620	27-Apr-15	ENG BOR D1 D2 D3 D4.	133171.434	1273
721991.36	4294298.734	8620	27-Apr-15	ENG BOR D1 D2 D3 D4.	133310.421	1412
721987.613	4294306.478	8621	27-Apr-15	ENG BOR D1 D2 D3 D4.	133401.354	1503
721995.599	4294296.804	8627	27-Apr-15	ENG BOR D1 D2 D3 D4.	133055.6541	1157

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722002.278	4294299.522	8628	27-Apr-15	ENG BOR D1 D2 D3 D4.	132748.408	850
721991.348	4294298.574	8628	27-Apr-15	ENG BOR D1 D2 D3 D4.	133330.16	1432
721988.481	4294310.536	8629	27-Apr-15	ENG BOR D1 D2 D3 D4.	132922.517	1024
722025.169	4294296.398	8633	27-Apr-15	ENG BOR D1 D2 D3 D4.	132515.755	617
722001.339	4294295.459	8636	27-Apr-15	ENG BOR D1 D2 D3 D4.	133045.5229	1147
722005.14	4294294.992	8642	27-Apr-15	ENG BOR D1 D2 D3 D4.	133280.358	1382
722022.759	4294297.661	8643	27-Apr-15	ENG BOR D1 D2 D3 D4.	132507.68	609
722003.214	4294295.558	8647	27-Apr-15	ENG BOR D1 D2 D3 D4.	133283.432	1385
721991.42	4294298.855	8650	27-Apr-15	ENG BOR D1 D2 D3 D4.	133065.608	1167
722000.194	4294295.403	8650	27-Apr-15	ENG BOR D1 D2 D3 D4.	133244.399	1346
721978.507	4294336.18	8656	27-Apr-15	ENG BOR D1 D2 D3 D4.	132832.4771	934
721985.971	4294310.7	8665	27-Apr-15	ENG BOR D1 D2 D3 D4.	133407.546	1509
721991.234	4294298.501	8666	27-Apr-15	ENG BOR D1 D2 D3 D4.	133365.48	1467
721988.406	4294306.016	8667	27-Apr-15	ENG BOR D1 D2 D3 D4.	133078.413	1180
722011.884	4294298.613	8677	27-Apr-15	ENG BOR D1 D2 D3 D4.	132733.651	835
721992.125	4294301.264	8678	27-Apr-15	ENG BOR D1 D2 D3 D4.	132941.286	1043
721977.993	4294334.91	8678	27-Apr-15	ENG BOR D1 D2 D3 D4.	133134.381	1236
722015.297	4294298.074	8683	27-Apr-15	ENG BOR D1 D2 D3 D4.	132728.485	830
721987.696	4294305.847	8685	27-Apr-15	ENG BOR D1 D2 D3 D4.	133400.356	1502
722003.489	4294299.418	8686	27-Apr-15	ENG BOR D1 D2 D3 D4.	132746.457	848
721980.4	4294331.179	8686	27-Apr-15	ENG BOR D1 D2 D3 D4.	132880.402	982
721986.656	4294309.251	8689	27-Apr-15	ENG BOR D1 D2 D3 D4.	133405.429	1507
722005.952	4294296.492	8690	27-Apr-15	ENG BOR D1 D2 D3 D4.	132971.576	1073
721999.314	4294296.165	8690	27-Apr-15	ENG BOR D1 D2 D3 D4.	133289.368	1391
721997.298	4294296.005	8693	27-Apr-15	ENG BOR D1 D2 D3 D4.	133240.353	1342
721992.75	4294297.101	8695	27-Apr-15	ENG BOR D1 D2 D3 D4.	133233.344	1335
721982.14	4294323.565	8697	27-Apr-15	ENG BOR D1 D2 D3 D4.	133184.4351	1286
721982.79	4294326.655	8699	27-Apr-15	ENG BOR D1 D2 D3 D4.	132815.554	917
721991.291	4294298.487	8700	27-Apr-15	ENG BOR D1 D2 D3 D4.	133347.6021	1449
721991.266	4294298.507	8700	27-Apr-15	ENG BOR D1 D2 D3 D4.	133360.433	1462
722019.437	4294297.421	8703	27-Apr-15	ENG BOR D1 D2 D3 D4.	132721.605	823
722000.155	4294297.493	8705	27-Apr-15	ENG BOR D1 D2 D3 D4.	132961.624	1063
721985.091	4294313.446	8706	27-Apr-15	ENG BOR D1 D2 D3 D4.	133201.47	1303
721981.604	4294324.724	8709	27-Apr-15	ENG BOR D1 D2 D3 D4.	133509.333	1608
721981.888	4294328.933	8715	27-Apr-15	ENG BOR D1 D2 D3 D4.	132819.551	921
721991.322	4294298.564	8715	27-Apr-15	ENG BOR D1 D2 D3 D4.	133329.3521	1431
721991.262	4294298.506	8715	27-Apr-15	ENG BOR D1 D2 D3 D4.	133361.432	1463
721984.789	4294315.36	8723	27-Apr-15	ENG BOR D1 D2 D3 D4.	133197.395	1299
721991.513	4294298.612	8723	27-Apr-15	ENG BOR D1 D2 D3 D4.	133306.41	1408
721987.748	4294308.038	8732	27-Apr-15	ENG BOR D1 D2 D3 D4.	133082.344	1184
722004.822	4294296.678	8732	27-Apr-15	ENG BOR D1 D2 D3 D4.	132969.651	1071
721991.275	4294298.795	8737	27-Apr-15	ENG BOR D1 D2 D3 D4.	133324.225	1426
722012.065	4294295.15	8745	27-Apr-15	ENG BOR D1 D2 D3 D4.	132981.702	1083
721986.028	4294318.393	8747	27-Apr-15	ENG BOR D1 D2 D3 D4.	132800.527	902
721986.921	4294310.154	8748	27-Apr-15	ENG BOR D1 D2 D3 D4.	133086.396	1188
721981.974	4294324.036	8748	27-Apr-15	ENG BOR D1 D2 D3 D4.	133183.651	1285
721981.334	4294324.717	8752	27-Apr-15	ENG BOR D1 D2 D3 D4.	133430.384	1532

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721977.626	4294337.956	8754	27-Apr-15	ENG BOR D1 D2 D3 D4.	132866.439	968
721995.262	4294299.512	8761	27-Apr-15	ENG BOR D1 D2 D3 D4.	132760.447	862
721984.513	4294322.334	8762	27-Apr-15	ENG BOR D1 D2 D3 D4.	132807.639	909
721983.047	4294321.681	8768	27-Apr-15	ENG BOR D1 D2 D3 D4.	133107.49	1209
721986.516	4294310.357	8769	27-Apr-15	ENG BOR D1 D2 D3 D4.	133207.426	1309
721991.235	4294298.498	8769	27-Apr-15	ENG BOR D1 D2 D3 D4.	133367.437	1469
721980.385	4294331.89	8775	27-Apr-15	ENG BOR D1 D2 D3 D4.	132825.453	927
721979.968	4294332.227	8777	27-Apr-15	ENG BOR D1 D2 D3 D4.	132878.285	980
721977.102	4294335.645	8778	27-Apr-15	ENG BOR D1 D2 D3 D4.	133163.615	1265
722027.084	4294294.977	8782	27-Apr-15	ENG BOR D1 D2 D3 D4.	132491.694	593
722006.547	4294294.257	8782	27-Apr-15	ENG BOR D1 D2 D3 D4.	133253.358	1355
721989.638	4294308.011	8783	27-Apr-15	ENG BOR D1 D2 D3 D4.	132782.696	884
721988.018	4294306.666	8803	27-Apr-15	ENG BOR D1 D2 D3 D4.	133213.501	1315
721986.995	4294315.626	8811	27-Apr-15	ENG BOR D1 D2 D3 D4.	132795.687	897
721982.792	4294326.089	8812	27-Apr-15	ENG BOR D1 D2 D3 D4.	132891.606	993
721987.389	4294307.206	8815	27-Apr-15	ENG BOR D1 D2 D3 D4.	133402.4821	1504
721982	4294325.848	8820	27-Apr-15	ENG BOR D1 D2 D3 D4.	133119.4189	1221
721994.754	4294296.876	8822	27-Apr-15	ENG BOR D1 D2 D3 D4.	133236.36	1338
721987.937	4294305.106	8822	27-Apr-15	ENG BOR D1 D2 D3 D4.	133399.358	1501
722005.354	4294299.164	8831	27-Apr-15	ENG BOR D1 D2 D3 D4.	132743.546	845
721982.967	4294325.683	8833	27-Apr-15	ENG BOR D1 D2 D3 D4.	132892.344	994
721991.813	4294301.348	8836	27-Apr-15	ENG BOR D1 D2 D3 D4.	132770.4771	872
721983.182	4294325.17	8838	27-Apr-15	ENG BOR D1 D2 D3 D4.	132893.355	995
721989.853	4294307.434	8852	27-Apr-15	ENG BOR D1 D2 D3 D4.	132781.684	883
721993.273	4294297.343	8853	27-Apr-15	ENG BOR D1 D2 D3 D4.	133060.441	1162
722027.066	4294293.003	8857	27-Apr-15	ENG BOR D1 D2 D3 D4.	132443.609	545
721991.889	4294297.287	8861	27-Apr-15	ENG BOR D1 D2 D3 D4.	133232.252	1334
722024.568	4294294.872	8879	27-Apr-15	ENG BOR D1 D2 D3 D4.	132447.691	549
722011.813	4294293.302	8879	27-Apr-15	ENG BOR D1 D2 D3 D4.	133263.405	1365
722023.944	4294297.284	8888	27-Apr-15	ENG BOR D1 D2 D3 D4.	132513.598	615
721994.222	4294296.978	8891	27-Apr-15	ENG BOR D1 D2 D3 D4.	133235.496	1337
721991.228	4294298.818	8896	27-Apr-15	ENG BOR D1 D2 D3 D4.	133314.3409	1416
721991.258	4294303.751	8900	27-Apr-15	ENG BOR D1 D2 D3 D4.	132935.403	1037
721991.188	4294298.856	8901	27-Apr-15	ENG BOR D1 D2 D3 D4.	133317.442	1419
721981.508	4294324.839	8918	27-Apr-15	ENG BOR D1 D2 D3 D4.	133465.178	1567
721991.91	4294298.043	8919	27-Apr-15	ENG BOR D1 D2 D3 D4.	133063.6541	1165
721983.369	4294318.801	8925	27-Apr-15	ENG BOR D1 D2 D3 D4.	133419.401	1521
722001.143	4294299.643	8931	27-Apr-15	ENG BOR D1 D2 D3 D4.	132750.462	852
721992.148	4294299.726	8946	27-Apr-15	ENG BOR D1 D2 D3 D4.	132767.675	869
721994.669	4294297.121	8946	27-Apr-15	ENG BOR D1 D2 D3 D4.	133057.535	1159
721981.531	4294324.845	8949	27-Apr-15	ENG BOR D1 D2 D3 D4.	133466.262	1568
721996.314	4294296.51	8950	27-Apr-15	ENG BOR D1 D2 D3 D4.	133054.347	1156
721988.507	4294311.16	8954	27-Apr-15	ENG BOR D1 D2 D3 D4.	132787.675	889
722025.01	4294294.398	8960	27-Apr-15	ENG BOR D1 D2 D3 D4.	132526.695	628
721989.977	4294300.337	8961	27-Apr-15	ENG BOR D1 D2 D3 D4.	133393.465	1495
722012.565	4294295.01	8966	27-Apr-15	ENG BOR D1 D2 D3 D4.	132982.538	1084
722011.212	4294293.365	8982	27-Apr-15	ENG BOR D1 D2 D3 D4.	133261.375	1363

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722001.916	4294295.752	8985	27-Apr-15	ENG BOR D1 D2 D3 D4.	133285.361	1387
722021.183	4294296.569	8989	27-Apr-15	ENG BOR D1 D2 D3 D4.	132718.54	820
722025.873	4294290.998	8992	27-Apr-15	ENG BOR D1 D2 D3 D4.	132545.863	647
721981.785	4294328.301	9002	27-Apr-15	ENG BOR D1 D2 D3 D4.	132886.3571	988
721981.317	4294329.506	9023	27-Apr-15	ENG BOR D1 D2 D3 D4.	132883.7469	985
721989.202	4294303.57	9026	27-Apr-15	ENG BOR D1 D2 D3 D4.	133218.351	1320
722000.582	4294297.417	9046	27-Apr-15	ENG BOR D1 D2 D3 D4.	132962.3719	1064
721991.175	4294298.842	9047	27-Apr-15	ENG BOR D1 D2 D3 D4.	133320.337	1422
722006.482	4294299.052	9056	27-Apr-15	ENG BOR D1 D2 D3 D4.	132741.812	843
721988.008	4294311.682	9065	27-Apr-15	ENG BOR D1 D2 D3 D4.	132920.429	1022
721977.426	4294338.656	9068	27-Apr-15	ENG BOR D1 D2 D3 D4.	132836.615	938
721988.256	4294311.05	9076	27-Apr-15	ENG BOR D1 D2 D3 D4.	132921.558	1023
722008.117	4294293.939	9076	27-Apr-15	ENG BOR D1 D2 D3 D4.	133255.657	1357
721990.272	4294299.2	9084	27-Apr-15	ENG BOR D1 D2 D3 D4.	133392.173	1494
721991.24	4294298.495	9092	27-Apr-15	ENG BOR D1 D2 D3 D4.	133368.417	1470
722024.308	4294291.983	9095	27-Apr-15	ENG BOR D1 D2 D3 D4.	132551.651	653
722022.631	4294296.707	9101	27-Apr-15	ENG BOR D1 D2 D3 D4.	132707.684	809
721988.171	4294306.18	9101	27-Apr-15	ENG BOR D1 D2 D3 D4.	133214.375	1316
721981.97	4294327.807	9120	27-Apr-15	ENG BOR D1 D2 D3 D4.	132887.5081	989
721991.292	4294298.48	9122	27-Apr-15	ENG BOR D1 D2 D3 D4.	133346.5179	1448
721991.262	4294298.482	9125	27-Apr-15	ENG BOR D1 D2 D3 D4.	133374.376	1476
721980.719	4294330.643	9131	27-Apr-15	ENG BOR D1 D2 D3 D4.	132881.505	983
721991.294	4294298.482	9139	27-Apr-15	ENG BOR D1 D2 D3 D4.	133339.521	1441
722020.352	4294295.434	9142	27-Apr-15	ENG BOR D1 D2 D3 D4.	132701.55	803
721982.89	4294322.315	9152	27-Apr-15	ENG BOR D1 D2 D3 D4.	133108.537	1210
722006.495	4294294.904	9152	27-Apr-15	ENG BOR D1 D2 D3 D4.	133278.439	1380
721991.685	4294298.363	9159	27-Apr-15	ENG BOR D1 D2 D3 D4.	133064.442	1166
721995.39	4294296.618	9165	27-Apr-15	ENG BOR D1 D2 D3 D4.	133237.4	1339
722022.81	4294297.519	9180	27-Apr-15	ENG BOR D1 D2 D3 D4.	132508.784	610
721977.057	4294339.749	9184	27-Apr-15	ENG BOR D1 D2 D3 D4.	132838.351	940
722007.105	4294294.151	9185	27-Apr-15	ENG BOR D1 D2 D3 D4.	133254.158	1356
721989.515	4294302.085	9186	27-Apr-15	ENG BOR D1 D2 D3 D4.	133221.5031	1323
722001.697	4294299.589	9207	27-Apr-15	ENG BOR D1 D2 D3 D4.	132749.413	851
721986.097	4294317.156	9220	27-Apr-15	ENG BOR D1 D2 D3 D4.	132909.488	1011
721983.974	4294318.527	9227	27-Apr-15	ENG BOR D1 D2 D3 D4.	133193.493	1295
722017.144	4294297.635	9233	27-Apr-15	ENG BOR D1 D2 D3 D4.	132725.442	827
721980.918	4294330.909	9240	27-Apr-15	ENG BOR D1 D2 D3 D4.	132823.5551	925
721982.328	4294327.164	9240	27-Apr-15	ENG BOR D1 D2 D3 D4.	132889.403	991
721982.687	4294321.322	9244	27-Apr-15	ENG BOR D1 D2 D3 D4.	133423.313	1525
722023.029	4294297.404	9254	27-Apr-15	ENG BOR D1 D2 D3 D4.	132511.619	613
721984.799	4294314.475	9271	27-Apr-15	ENG BOR D1 D2 D3 D4.	133413.277	1515
722026.581	4294295.252	9275	27-Apr-15	ENG BOR D1 D2 D3 D4.	132492.549	594
721981.405	4294324.833	9282	27-Apr-15	ENG BOR D1 D2 D3 D4.	133450.267	1552
721985.205	4294320.58	9294	27-Apr-15	ENG BOR D1 D2 D3 D4.	132804.424	906
722026.178	4294295.575	9299	27-Apr-15	ENG BOR D1 D2 D3 D4.	132517.656	619
722002.644	4294295.646	9302	27-Apr-15	ENG BOR D1 D2 D3 D4.	133284.298	1386
721981.597	4294324.732	9319	27-Apr-15	ENG BOR D1 D2 D3 D4.	133512.3149	1611

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721991.187	4294298.837	9334	27-Apr-15	ENG BOR D1 D2 D3 D4.	133315.472	1417
721981.411	4294324.834	9370	27-Apr-15	ENG BOR D1 D2 D3 D4.	133451.301	1553
721989.455	4294302.57	9384	27-Apr-15	ENG BOR D1 D2 D3 D4.	133220.473	1322
721989.11	4294304.504	9411	27-Apr-15	ENG BOR D1 D2 D3 D4.	133075.522	1177
721978.797	4294335.457	9425	27-Apr-15	ENG BOR D1 D2 D3 D4.	132831.406	933
722024.501	4294296.861	9452	27-Apr-15	ENG BOR D1 D2 D3 D4.	132514.651	616
722001.942	4294295.365	9467	27-Apr-15	ENG BOR D1 D2 D3 D4.	133044.4449	1146
721982.153	4294327.508	9480	27-Apr-15	ENG BOR D1 D2 D3 D4.	132888.3979	990
721981.483	4294329.76	9492	27-Apr-15	ENG BOR D1 D2 D3 D4.	132821.4091	923
722004.787	4294299.247	9497	27-Apr-15	ENG BOR D1 D2 D3 D4.	132744.389	846
721990.559	4294301.094	9506	27-Apr-15	ENG BOR D1 D2 D3 D4.	133069.634	1171
721986.735	4294309.888	9512	27-Apr-15	ENG BOR D1 D2 D3 D4.	133208.165	1310
721985.992	4294317.669	9520	27-Apr-15	ENG BOR D1 D2 D3 D4.	132908.395	1010
721991.565	4294297.442	9526	27-Apr-15	ENG BOR D1 D2 D3 D4.	133231.401	1333
721978.203	4294336.932	9544	27-Apr-15	ENG BOR D1 D2 D3 D4.	132833.7371	935
722020.637	4294295.963	9545	27-Apr-15	ENG BOR D1 D2 D3 D4.	132702.632	804
721976.337	4294341.317	9551	27-Apr-15	ENG BOR D1 D2 D3 D4.	132840.666	942
721992.883	4294299.596	9574	27-Apr-15	ENG BOR D1 D2 D3 D4.	132945.406	1047
721976.758	4294340.618	9646	27-Apr-15	ENG BOR D1 D2 D3 D4.	132839.611	941
721985.824	4294311.273	9696	27-Apr-15	ENG BOR D1 D2 D3 D4.	133408.356	1510
721981.899	4294326.272	9735	27-Apr-15	ENG BOR D1 D2 D3 D4.	133120.451	1222
721991.261	4294298.087	9745	27-Apr-15	ENG BOR D1 D2 D3 D4.	133229.6479	1331
721991.04	4294304.318	9801	27-Apr-15	ENG BOR D1 D2 D3 D4.	132934.347	1036
721980.23	4294331.542	9904	27-Apr-15	ENG BOR D1 D2 D3 D4.	132879.608	981
721981.573	4294324.722	9950	27-Apr-15	ENG BOR D1 D2 D3 D4.	133515.173	1614
721991.726	4294301.931	9979	27-Apr-15	ENG BOR D1 D2 D3 D4.	132771.4821	873
721998.119	4294299.891	9993	27-Apr-15	ENG BOR D1 D2 D3 D4.	132755.656	857
721993.226	4294299.567	10016	27-Apr-15	ENG BOR D1 D2 D3 D4.	132764.5439	866
721981.38	4294324.797	10113	27-Apr-15	ENG BOR D1 D2 D3 D4.	133446.236	1548

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722244.811	4294306.081	6012	30-Oct-13	103013-002.SSF	330300.446	1
722244.816	4294306.085	5227	30-Oct-13	103013-002.SSF	330301.495	2
722244.811	4294306.047	5505	30-Oct-13	103013-002.SSF	330302.434	3
722244.787	4294305.94	5571	30-Oct-13	103013-002.SSF	330303.456	4
722244.765	4294305.845	5301	30-Oct-13	103013-002.SSF	330304.383	5
722244.73	4294305.744	5262	30-Oct-13	103013-002.SSF	330305.961	6
722244.701	4294305.703	5450	30-Oct-13	103013-002.SSF	330306.876	7
722244.675	4294305.659	5458	30-Oct-13	103013-002.SSF	330307.933	8
722244.642	4294305.623	5230	30-Oct-13	103013-002.SSF	330308.842	9
722244.63	4294305.57	5319	30-Oct-13	103013-002.SSF	330309.93	10
722244.619	4294305.515	5459	30-Oct-13	103013-002.SSF	330310.81	11
722244.625	4294305.474	5733	30-Oct-13	103013-002.SSF	330311.93	12
722244.621	4294305.418	6285	30-Oct-13	103013-002.SSF	330312.812	13
722244.606	4294305.358	5778	30-Oct-13	103013-002.SSF	330313.929	14
722244.602	4294305.334	5297	30-Oct-13	103013-002.SSF	330314.825	15
722244.595	4294305.287	5515	30-Oct-13	103013-002.SSF	330315.951	16
722244.603	4294305.276	5584	30-Oct-13	103013-002.SSF	330316.815	17
722244.596	4294305.255	5181	30-Oct-13	103013-002.SSF	330317.934	18
722244.58	4294305.237	5044	30-Oct-13	103013-002.SSF	330318.807	19
722244.555	4294305.341	5492	30-Oct-13	103013-002.SSF	330319.906	20
722244.579	4294305.514	5489	30-Oct-13	103013-002.SSF	330320.745	21
722244.682	4294305.617	5923	30-Oct-13	103013-002.SSF	330321.901	22
722244.678	4294305.719	5724	30-Oct-13	103013-002.SSF	330322.761	23
722244.705	4294305.737	5417	30-Oct-13	103013-002.SSF	330323.896	24
722244.815	4294305.708	5582	30-Oct-13	103013-002.SSF	330324.793	25
722244.86	4294305.646	5780	30-Oct-13	103013-002.SSF	330325.924	26
722244.918	4294305.645	5448	30-Oct-13	103013-002.SSF	330326.821	27
722244.973	4294305.535	5562	30-Oct-13	103013-002.SSF	330327.912	28
722245.015	4294305.381	5063	30-Oct-13	103013-002.SSF	330328.828	29
722245.068	4294305.265	5061	30-Oct-13	103013-002.SSF	330329.848	30
722245.137	4294305.17	5569	30-Oct-13	103013-002.SSF	330330.8	31
722245.209	4294305.078	5450	30-Oct-13	103013-002.SSF	330331.869	32
722245.232	4294305.02	5158	30-Oct-13	103013-002.SSF	330332.765	33
722245.251	4294304.959	4904	30-Oct-13	103013-002.SSF	330333.889	34
722245.24	4294304.902	5293	30-Oct-13	103013-002.SSF	330334.767	35
722245.254	4294304.829	5475	30-Oct-13	103013-002.SSF	330335.926	36
722245.283	4294304.799	5727	30-Oct-13	103013-002.SSF	330336.815	37
722245.318	4294304.771	6071	30-Oct-13	103013-002.SSF	330337.859	38
722245.325	4294304.769	6077	30-Oct-13	103013-002.SSF	330338.809	39
722245.362	4294304.769	5803	30-Oct-13	103013-002.SSF	330339.924	40
722245.373	4294304.749	6137	30-Oct-13	103013-002.SSF	330340.777	41
722245.353	4294304.727	5837	30-Oct-13	103013-002.SSF	330341.932	42
722245.321	4294304.707	5788	30-Oct-13	103013-002.SSF	330342.824	43
722245.382	4294304.665	5828	30-Oct-13	103013-002.SSF	330343.931	44
722245.481	4294304.676	5326	30-Oct-13	103013-002.SSF	330344.782	45
722245.555	4294304.615	5441	30-Oct-13	103013-002.SSF	330345.866	46
722245.515	4294304.553	5460	30-Oct-13	103013-002.SSF	330346.763	47

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722245.496	4294304.521	5681	30-Oct-13	103013-002.SSF	330347.88	48
722245.5	4294304.523	5393	30-Oct-13	103013-002.SSF	330348.728	49
722245.5	4294304.529	5013	30-Oct-13	103013-002.SSF	330349.791	50
722245.435	4294304.552	5430	30-Oct-13	103013-002.SSF	330350.748	51
722245.4	4294304.567	5649	30-Oct-13	103013-002.SSF	330351.797	52
722245.272	4294304.573	5668	30-Oct-13	103013-002.SSF	330352.732	53
722245.027	4294304.532	5662	30-Oct-13	103013-002.SSF	330355.821	54
722245.11	4294304.454	5479	30-Oct-13	103013-002.SSF	330356.71	55
722245.342	4294304.455	5512	30-Oct-13	103013-002.SSF	330357.763	56
722245.521	4294304.58	5913	30-Oct-13	103013-002.SSF	330358.779	57
722245.507	4294304.676	5733	30-Oct-13	103013-002.SSF	330359.765	58
722245.454	4294304.68	5640	30-Oct-13	103013-002.SSF	330360.712	59
722245.45	4294304.625	5925	30-Oct-13	103013-002.SSF	330361.805	60
722245.463	4294304.578	5695	30-Oct-13	103013-002.SSF	330362.716	61
722245.483	4294304.541	5543	30-Oct-13	103013-002.SSF	330363.809	62
722245.506	4294304.517	5840	30-Oct-13	103013-002.SSF	330364.715	63
722245.544	4294304.522	5798	30-Oct-13	103013-002.SSF	330365.837	64
722245.585	4294304.567	5789	30-Oct-13	103013-002.SSF	330366.793	65
722245.631	4294304.667	5678	30-Oct-13	103013-002.SSF	330367.829	66
722245.77	4294304.862	5601	30-Oct-13	103013-002.SSF	330368.73	67
722245.812	4294305.067	6181	30-Oct-13	103013-002.SSF	330369.837	68
722245.743	4294305.151	5614	30-Oct-13	103013-002.SSF	330370.725	69
722245.681	4294305.097	6338	30-Oct-13	103013-002.SSF	330371.828	70
722245.461	4294304.818	6077	30-Oct-13	103013-002.SSF	330372.785	71
722245.171	4294304.348	5676	30-Oct-13	103013-002.SSF	330373.833	72
722244.986	4294304.237	5585	30-Oct-13	103013-002.SSF	330374.75	73
722244.844	4294304.104	5759	30-Oct-13	103013-002.SSF	330375.942	74
722244.873	4294304.061	6059	30-Oct-13	103013-002.SSF	330376.811	75
722244.964	4294303.974	5793	30-Oct-13	103013-002.SSF	330377.872	76
722245.132	4294303.997	5816	30-Oct-13	103013-002.SSF	330378.82	77
722245.27	4294304.092	5349	30-Oct-13	103013-002.SSF	330379.855	78
722245.538	4294304.109	5198	30-Oct-13	103013-002.SSF	330380.756	79
722245.816	4294304.131	5189	30-Oct-13	103013-002.SSF	330381.846	80
722245.975	4294304.112	5536	30-Oct-13	103013-002.SSF	330382.786	81
722246.125	4294304.089	5649	30-Oct-13	103013-002.SSF	330383.837	82
722246.211	4294304.061	5277	30-Oct-13	103013-002.SSF	330384.77	83
722246.288	4294303.924	5473	30-Oct-13	103013-002.SSF	330385.856	84
722246.338	4294303.884	5381	30-Oct-13	103013-002.SSF	330386.785	85
722246.24	4294303.924	5562	30-Oct-13	103013-002.SSF	330387.892	86
722246.071	4294304.031	5206	30-Oct-13	103013-002.SSF	330388.797	87
722245.946	4294304.052	5786	30-Oct-13	103013-002.SSF	330389.993	88
722245.793	4294304.076	5782	30-Oct-13	103013-002.SSF	330390.829	89
722245.914	4294304.085	5435	30-Oct-13	103013-002.SSF	330391.972	90
722246	4294303.918	5419	30-Oct-13	103013-002.SSF	330392.819	91
722245.991	4294303.879	5373	30-Oct-13	103013-002.SSF	330393.939	92
722245.96	4294303.801	4965	30-Oct-13	103013-002.SSF	330394.744	93
722245.924	4294303.757	5455	30-Oct-13	103013-002.SSF	330395.876	94

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722245.791	4294303.817	5453	30-Oct-13	103013-002.SSF	330396.752	95
722245.64	4294303.995	5827	30-Oct-13	103013-002.SSF	330397.857	96
722245.51	4294304.118	5730	30-Oct-13	103013-002.SSF	330398.779	97
722245.347	4294304.225	5871	30-Oct-13	103013-002.SSF	330399.911	98
722245.336	4294304.25	5747	30-Oct-13	103013-002.SSF	330400.709	99
722245.197	4294304.22	6082	30-Oct-13	103013-002.SSF	330401.954	100
722245.09	4294304.21	5986	30-Oct-13	103013-002.SSF	330402.762	101
722244.881	4294304.325	5865	30-Oct-13	103013-002.SSF	330403.927	102
722244.696	4294304.515	6216	30-Oct-13	103013-002.SSF	330404.729	103
722244.519	4294304.628	5589	30-Oct-13	103013-002.SSF	330405.781	104
722244.329	4294304.733	5679	30-Oct-13	103013-002.SSF	330406.696	105
722244.1	4294304.778	5774	30-Oct-13	103013-002.SSF	330407.782	106
722244.113	4294304.651	5648	30-Oct-13	103013-002.SSF	330408.78	107
722244.437	4294304.465	5584	30-Oct-13	103013-002.SSF	330409.785	108
722244.923	4294304.277	5519	30-Oct-13	103013-002.SSF	330410.687	109
722245.365	4294304.185	5609	30-Oct-13	103013-002.SSF	330411.786	110
722245.642	4294304.114	5367	30-Oct-13	103013-002.SSF	330412.697	111
722245.81	4294304.077	5426	30-Oct-13	103013-002.SSF	330413.853	112
722245.913	4294304.036	5692	30-Oct-13	103013-002.SSF	330414.697	113
722246.038	4294304.028	5482	30-Oct-13	103013-002.SSF	330415.77	114
722246.113	4294304.031	5941	30-Oct-13	103013-002.SSF	330416.779	115
722246.08	4294304.049	5951	30-Oct-13	103013-002.SSF	330417.827	116
722246.037	4294304.087	5695	30-Oct-13	103013-002.SSF	330418.771	117
722246.066	4294304.072	5558	30-Oct-13	103013-002.SSF	330419.83	118
722246.162	4294304.046	5676	30-Oct-13	103013-002.SSF	330420.687	119
722246.247	4294304.096	6028	30-Oct-13	103013-002.SSF	330421.833	120
722246.148	4294304.156	5805	30-Oct-13	103013-002.SSF	330422.757	121
722246.057	4294304.211	5883	30-Oct-13	103013-002.SSF	330423.826	122
722235.98	4294314.444	5372	30-Oct-13	103013-002.SSF	331331.5601	123
722235.848	4294314.373	5392	30-Oct-13	103013-002.SSF	331332.443	124
722235.656	4294314.32	5470	30-Oct-13	103013-002.SSF	331333.509	125
722235.545	4294314.289	5439	30-Oct-13	103013-002.SSF	331334.417	126
722235.441	4294314.26	5257	30-Oct-13	103013-002.SSF	331335.5649	127
722235.343	4294314.3	5102	30-Oct-13	103013-002.SSF	331336.4041	128
722235.278	4294314.307	5517	30-Oct-13	103013-002.SSF	331337.568	129
722235.343	4294314.181	5833	30-Oct-13	103013-002.SSF	331338.4	130
722235.481	4294313.983	5418	30-Oct-13	103013-002.SSF	331339.573	131
722235.534	4294313.931	5695	30-Oct-13	103013-002.SSF	331340.356	132
722235.609	4294313.888	5618	30-Oct-13	103013-002.SSF	331341.447	133
722235.681	4294313.877	5455	30-Oct-13	103013-002.SSF	331342.344	134
722235.701	4294313.947	5423	30-Oct-13	103013-002.SSF	331343.412	135
722235.683	4294314.011	5608	30-Oct-13	103013-002.SSF	331344.408	136
722235.658	4294313.986	5809	30-Oct-13	103013-002.SSF	331345.485	137
722235.648	4294313.959	5825	30-Oct-13	103013-002.SSF	331346.354	138
722235.677	4294313.959	5984	30-Oct-13	103013-002.SSF	331347.506	139
722235.716	4294314.024	5773	30-Oct-13	103013-002.SSF	331348.353	140
722235.767	4294314.137	5467	30-Oct-13	103013-002.SSF	331349.424	141

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722235.822	4294314.244	5625	30-Oct-13	103013-002.SSF	331350.449	142
722235.867	4294314.305	5782	30-Oct-13	103013-002.SSF	331351.451	143
722235.86	4294314.295	5914	30-Oct-13	103013-002.SSF	331352.408	144
722235.82	4294314.3	6004	30-Oct-13	103013-002.SSF	331353.464	145
722235.795	4294314.348	5665	30-Oct-13	103013-002.SSF	331354.411	146
722235.751	4294314.329	6021	30-Oct-13	103013-002.SSF	331355.4871	147
722235.721	4294314.287	5802	30-Oct-13	103013-002.SSF	331356.422	148
722235.71	4294314.277	5926	30-Oct-13	103013-002.SSF	331357.486	149
722235.762	4294314.278	6033	30-Oct-13	103013-002.SSF	331358.446	150
722235.823	4294314.295	5801	30-Oct-13	103013-002.SSF	331359.52	151
722235.845	4294314.335	5843	30-Oct-13	103013-002.SSF	331360.493	152
722235.949	4294314.368	6204	30-Oct-13	103013-002.SSF	331361.578	153
722236.031	4294314.45	6070	30-Oct-13	103013-002.SSF	331362.46	154
722236.06	4294314.573	6294	30-Oct-13	103013-002.SSF	331363.538	155
722236.072	4294314.546	6008	30-Oct-13	103013-002.SSF	331364.496	156
722236.086	4294314.456	5989	30-Oct-13	103013-002.SSF	331365.4821	157
722236.086	4294314.449	5424	30-Oct-13	103013-002.SSF	331366.3979	158
722236.12	4294314.472	5533	30-Oct-13	103013-002.SSF	331367.48	159
722236.161	4294314.394	5310	30-Oct-13	103013-002.SSF	331368.464	160
722236.179	4294314.3	5267	30-Oct-13	103013-002.SSF	331369.463	161
722236.166	4294314.191	5362	30-Oct-13	103013-002.SSF	331370.364	162
722236.111	4294314.126	5904	30-Oct-13	103013-002.SSF	331371.442	163
722236.093	4294314.139	5661	30-Oct-13	103013-002.SSF	331372.345	164
722236.109	4294314.105	5726	30-Oct-13	103013-002.SSF	331373.449	165
722236.07	4294314.113	5553	30-Oct-13	103013-002.SSF	331374.438	166
722235.882	4294314.255	5351	30-Oct-13	103013-002.SSF	331375.5861	167
722235.666	4294314.411	5492	30-Oct-13	103013-002.SSF	331376.424	168
722235.367	4294314.549	5332	30-Oct-13	103013-002.SSF	331377.5811	169
722235.121	4294314.606	5767	30-Oct-13	103013-002.SSF	331378.5179	170
722234.898	4294314.638	5561	30-Oct-13	103013-002.SSF	331379.576	171
722234.878	4294314.601	6000	30-Oct-13	103013-002.SSF	331380.387	172
722234.991	4294314.553	5445	30-Oct-13	103013-002.SSF	331381.4399	173
722235.087	4294314.52	5433	30-Oct-13	103013-002.SSF	331382.438	174
722235.138	4294314.444	5216	30-Oct-13	103013-002.SSF	331383.474	175
722235.187	4294314.399	5266	30-Oct-13	103013-002.SSF	331384.4351	176
722235.125	4294314.455	5707	30-Oct-13	103013-002.SSF	331385.5129	177
722234.954	4294314.548	5535	30-Oct-13	103013-002.SSF	331386.442	178
722234.814	4294314.612	5618	30-Oct-13	103013-002.SSF	331387.588	179
722234.774	4294314.607	5883	30-Oct-13	103013-002.SSF	331388.457	180
722234.73	4294314.43	5476	30-Oct-13	103013-002.SSF	331389.506	181
722234.671	4294314.174	5240	30-Oct-13	103013-002.SSF	331390.408	182
722234.558	4294313.931	5302	30-Oct-13	103013-002.SSF	331391.4449	183
722234.389	4294313.79	5180	30-Oct-13	103013-002.SSF	331392.365	184
722234.167	4294313.602	5418	30-Oct-13	103013-002.SSF	331393.416	185
722233.993	4294313.408	5995	30-Oct-13	103013-002.SSF	331394.368	186
722233.848	4294313.193	5690	30-Oct-13	103013-002.SSF	331395.522	187
722233.696	4294312.942	5398	30-Oct-13	103013-002.SSF	331396.422	188

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722233.547	4294312.732	5534	30-Oct-13	103013-002.SSF	331397.524	189
722233.544	4294312.588	5430	30-Oct-13	103013-002.SSF	331398.423	190
722233.578	4294312.357	5057	30-Oct-13	103013-002.SSF	331399.563	191
722233.573	4294312.223	5514	30-Oct-13	103013-002.SSF	331400.3669	192
722233.617	4294312.069	5404	30-Oct-13	103013-002.SSF	331401.415	193
722233.676	4294311.915	5492	30-Oct-13	103013-002.SSF	331402.33	194
722233.732	4294311.651	5932	30-Oct-13	103013-002.SSF	331403.417	195
722233.802	4294311.406	5459	30-Oct-13	103013-002.SSF	331404.385	196
722233.889	4294311.272	5441	30-Oct-13	103013-002.SSF	331405.528	197
722233.983	4294311.289	5445	30-Oct-13	103013-002.SSF	331406.462	198
722234.018	4294311.178	5403	30-Oct-13	103013-002.SSF	331407.515	199
722234.011	4294311.041	5499	30-Oct-13	103013-002.SSF	331408.447	200
722234.035	4294311.034	5380	30-Oct-13	103013-002.SSF	331409.493	201
722234.06	4294311.085	5299	30-Oct-13	103013-002.SSF	331410.3669	202
722233.992	4294311.362	5215	30-Oct-13	103013-002.SSF	331411.4709	203
722233.857	4294311.693	5291	30-Oct-13	103013-002.SSF	331412.366	204
722233.75	4294311.821	5515	30-Oct-13	103013-002.SSF	331413.481	205
722233.759	4294311.828	5720	30-Oct-13	103013-002.SSF	331414.368	206
722233.873	4294311.824	5902	30-Oct-13	103013-002.SSF	331415.524	207
722234.044	4294311.697	6320	30-Oct-13	103013-002.SSF	331416.399	208
722234.409	4294311.436	6007	30-Oct-13	103013-002.SSF	331417.528	209
722234.729	4294311.377	5914	30-Oct-13	103013-002.SSF	331418.4041	210
722235.201	4294311.449	5539	30-Oct-13	103013-002.SSF	331419.562	211
722235.379	4294311.499	5328	30-Oct-13	103013-002.SSF	331420.37	212
722235.382	4294311.494	5532	30-Oct-13	103013-002.SSF	331421.452	213
722235.284	4294311.268	5444	30-Oct-13	103013-002.SSF	331422.434	214
722235.29	4294311.064	5522	30-Oct-13	103013-002.SSF	331423.5031	215
722235.486	4294310.799	5656	30-Oct-13	103013-002.SSF	331424.3781	216
722235.703	4294310.4	5461	30-Oct-13	103013-002.SSF	331425.48	217
722235.776	4294310.174	5674	30-Oct-13	103013-002.SSF	331426.434	218
722235.912	4294309.813	5622	30-Oct-13	103013-002.SSF	331427.474	219
722235.978	4294309.603	5689	30-Oct-13	103013-002.SSF	331428.42	220
722235.924	4294309.732	5225	30-Oct-13	103013-002.SSF	331429.505	221
722235.754	4294310.002	5227	30-Oct-13	103013-002.SSF	331430.417	222
722235.567	4294310.127	5362	30-Oct-13	103013-002.SSF	331431.4919	223
722235.461	4294310.056	5139	30-Oct-13	103013-002.SSF	331432.399	224
722235.368	4294309.915	5185	30-Oct-13	103013-002.SSF	331433.49	225
722235.341	4294309.838	5549	30-Oct-13	103013-002.SSF	331434.384	226
722235.353	4294309.778	5566	30-Oct-13	103013-002.SSF	331435.4041	227
722235.376	4294309.688	5456	30-Oct-13	103013-002.SSF	331436.387	228
722235.324	4294309.539	5394	30-Oct-13	103013-002.SSF	331437.3979	229
722235.315	4294309.453	5389	30-Oct-13	103013-002.SSF	331438.37	230
722235.268	4294309.33	5483	30-Oct-13	103013-002.SSF	331439.42	231
722235.142	4294309.096	4802	30-Oct-13	103013-002.SSF	331440.424	232
722235.006	4294309.067	5071	30-Oct-13	103013-002.SSF	331441.469	233
722234.883	4294309.108	5357	30-Oct-13	103013-002.SSF	331442.441	234
722234.814	4294309.104	5353	30-Oct-13	103013-002.SSF	331443.489	235

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722234.742	4294309.076	5305	30-Oct-13	103013-002.SSF	331444.4301	236
722234.659	4294309.097	5487	30-Oct-13	103013-002.SSF	331445.481	237
722234.588	4294309.092	5561	30-Oct-13	103013-002.SSF	331446.447	238
722234.478	4294309.034	5903	30-Oct-13	103013-002.SSF	331447.538	239
722234.44	4294309.044	5897	30-Oct-13	103013-002.SSF	331448.376	240
722234.429	4294309.077	5670	30-Oct-13	103013-002.SSF	331449.522	241
722234.378	4294309.074	5521	30-Oct-13	103013-002.SSF	331450.385	242
722234.278	4294309.165	5138	30-Oct-13	103013-002.SSF	331451.463	243
722234.199	4294309.26	5275	30-Oct-13	103013-002.SSF	331452.4399	244
722234.134	4294309.307	5224	30-Oct-13	103013-002.SSF	331453.478	245
722234.028	4294309.392	5594	30-Oct-13	103013-002.SSF	331454.427	246
722233.931	4294309.54	5794	30-Oct-13	103013-002.SSF	331455.522	247
722233.811	4294309.671	5314	30-Oct-13	103013-002.SSF	331456.4	248
722233.447	4294309.717	5321	30-Oct-13	103013-002.SSF	331457.5031	249
722233.437	4294309.558	5415	30-Oct-13	103013-002.SSF	331458.464	250
722234.198	4294309.553	4996	30-Oct-13	103013-002.SSF	331459.548	251
722234.858	4294309.615	4895	30-Oct-13	103013-002.SSF	331460.3781	252
722235.175	4294309.412	4643	30-Oct-13	103013-002.SSF	331461.427	253
722235.239	4294309.188	5162	30-Oct-13	103013-002.SSF	331462.382	254
722235.748	4294308.899	5296	30-Oct-13	103013-002.SSF	331463.452	255
722236.25	4294308.478	5184	30-Oct-13	103013-002.SSF	331464.443	256
722236.833	4294307.855	5586	30-Oct-13	103013-002.SSF	331465.509	257
722237.625	4294307.411	5557	30-Oct-13	103013-002.SSF	331466.366	258
722238.801	4294306.86	5511	30-Oct-13	103013-002.SSF	331467.512	259
722239.919	4294306.576	6145	30-Oct-13	103013-002.SSF	331468.39	260
722241	4294306.396	5301	30-Oct-13	103013-002.SSF	331469.451	261
722241.108	4294306.324	4962	30-Oct-13	103013-002.SSF	331470.432	262
722240.821	4294306.256	5033	30-Oct-13	103013-002.SSF	331471.386	263
722240.658	4294306.11	4916	30-Oct-13	103013-002.SSF	331472.323	264
722240.693	4294306.02	4910	30-Oct-13	103013-002.SSF	331473.469	265
722240.702	4294306.187	5019	30-Oct-13	103013-002.SSF	331474.325	266
722240.847	4294306.359	4908	30-Oct-13	103013-002.SSF	331475.3879	267
722241.115	4294306.2	5151	30-Oct-13	103013-002.SSF	331476.311	268
722241.67	4294305.899	4918	30-Oct-13	103013-002.SSF	331477.399	269
722242.128	4294305.972	4971	30-Oct-13	103013-002.SSF	331478.344	270
722242.503	4294305.998	4956	30-Oct-13	103013-002.SSF	331479.442	271
722242.814	4294306.064	4970	30-Oct-13	103013-002.SSF	331480.374	272
722243.126	4294306.162	4686	30-Oct-13	103013-002.SSF	331481.46	273
722243.252	4294306.082	4106	30-Oct-13	103013-002.SSF	331482.394	274
722243.306	4294305.876	4417	30-Oct-13	103013-002.SSF	331483.4771	275
722243.434	4294305.942	4382	30-Oct-13	103013-002.SSF	331484.324	276
722243.584	4294306.087	4445	30-Oct-13	103013-002.SSF	331485.491	277
722243.775	4294305.804	4562	30-Oct-13	103013-002.SSF	331486.3621	278
722244.223	4294305.018	4689	30-Oct-13	103013-002.SSF	331487.431	279
722244.616	4294304.618	4857	30-Oct-13	103013-002.SSF	331488.349	280
722245.347	4294304.33	4757	30-Oct-13	103013-002.SSF	331489.474	281
722245.657	4294303.81	5286	30-Oct-13	103013-002.SSF	331490.38	282

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722245.551	4294303.424	4916	30-Oct-13	103013-002.SSF	331491.452	283
722245.567	4294303.573	5097	30-Oct-13	103013-002.SSF	331492.381	284
722245.662	4294303.735	5387	30-Oct-13	103013-002.SSF	331493.454	285
722245.666	4294303.844	5505	30-Oct-13	103013-002.SSF	331494.394	286
722245.682	4294303.928	5489	30-Oct-13	103013-002.SSF	331495.484	287
722245.757	4294304.04	5285	30-Oct-13	103013-002.SSF	331496.4351	288
722245.87	4294304.115	5290	30-Oct-13	103013-002.SSF	331497.4871	289
722245.998	4294304.145	5233	30-Oct-13	103013-002.SSF	331498.431	290
722246.072	4294304.523	5291	30-Oct-13	103013-002.SSF	331499.48	291
722246.068	4294305.08	5421	30-Oct-13	103013-002.SSF	331500.385	292
722246.104	4294305.464	5322	30-Oct-13	103013-002.SSF	331501.385	293
722246.138	4294305.7	5476	30-Oct-13	103013-002.SSF	331502.376	294
722246.142	4294305.911	5427	30-Oct-13	103013-002.SSF	331503.415	295
722246.154	4294306.08	5475	30-Oct-13	103013-002.SSF	331504.373	296
722246.164	4294306.237	5532	30-Oct-13	103013-002.SSF	331505.479	297
722246.197	4294306.313	5594	30-Oct-13	103013-002.SSF	331506.454	298
722246.14	4294306.213	5172	30-Oct-13	103013-002.SSF	331507.5081	299
722245.725	4294305.989	5346	30-Oct-13	103013-002.SSF	331508.452	300
722244.777	4294305.731	5370	30-Oct-13	103013-002.SSF	331509.512	301
722243.763	4294305.694	5030	30-Oct-13	103013-002.SSF	331510.359	302
722242.326	4294306.023	4869	30-Oct-13	103013-002.SSF	331511.516	303
722241.308	4294306.319	5026	30-Oct-13	103013-002.SSF	331512.384	304
722239.931	4294306.533	5107	30-Oct-13	103013-002.SSF	331513.439	305
722238.49	4294306.679	4987	30-Oct-13	103013-002.SSF	331514.4189	306
722237.055	4294307.008	5235	30-Oct-13	103013-002.SSF	331515.521	307
722236.266	4294307.492	5052	30-Oct-13	103013-002.SSF	331516.379	308
722235.667	4294308.347	4934	30-Oct-13	103013-002.SSF	331517.45	309
722235.436	4294309.291	5190	30-Oct-13	103013-002.SSF	331518.423	310
722235.426	4294310.11	5342	30-Oct-13	103013-002.SSF	331519.4659	311
722235.431	4294310.318	5885	30-Oct-13	103013-002.SSF	331520.337	312
722235.336	4294310.326	6182	30-Oct-13	103013-002.SSF	331521.39	313
722235.174	4294310.376	6072	30-Oct-13	103013-002.SSF	331522.35	314
722234.858	4294310.338	6318	30-Oct-13	103013-002.SSF	331523.396	315
722234.595	4294310.232	5616	30-Oct-13	103013-002.SSF	331524.37	316
722234.527	4294310.213	5469	30-Oct-13	103013-002.SSF	331525.468	317
722234.516	4294310.116	5439	30-Oct-13	103013-002.SSF	331526.444	318
722234.533	4294309.995	5737	30-Oct-13	103013-002.SSF	331527.415	319
722234.583	4294309.964	5859	30-Oct-13	103013-002.SSF	331528.3719	320
722234.654	4294309.978	6543	30-Oct-13	103013-002.SSF	331529.432	321
722234.76	4294310.067	6605	30-Oct-13	103013-002.SSF	331530.417	322
722234.89	4294310.175	6708	30-Oct-13	103013-002.SSF	331531.488	323
722234.977	4294310.242	6113	30-Oct-13	103013-002.SSF	331532.344	324
722235.098	4294310.352	6168	30-Oct-13	103013-002.SSF	331533.493	325
722235.169	4294310.425	6890	30-Oct-13	103013-002.SSF	331534.368	326
722235.164	4294310.404	6440	30-Oct-13	103013-002.SSF	331535.428	327
722235.091	4294310.257	6060	30-Oct-13	103013-002.SSF	331536.36	328
722234.934	4294310.175	5816	30-Oct-13	103013-002.SSF	331537.496	329

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722234.872	4294310.177	5506	30-Oct-13	103013-002.SSF	331538.429	330
722234.873	4294310.222	5602	30-Oct-13	103013-002.SSF	331539.4449	331
722234.834	4294310.282	5612	30-Oct-13	103013-002.SSF	331540.381	332
722234.583	4294310.286	5133	30-Oct-13	103013-002.SSF	331541.469	333
722234.358	4294310.24	5407	30-Oct-13	103013-002.SSF	331542.324	334
722234.267	4294310.183	5261	30-Oct-13	103013-002.SSF	331543.4189	335
722234.338	4294310.147	5554	30-Oct-13	103013-002.SSF	331544.4139	336
722234.365	4294310.153	5314	30-Oct-13	103013-002.SSF	331545.3879	337
722234.328	4294310.148	5456	30-Oct-13	103013-002.SSF	331546.374	338
722234.287	4294310.099	6039	30-Oct-13	103013-002.SSF	331547.444	339
722234.176	4294309.965	5797	30-Oct-13	103013-002.SSF	331548.327	340
722233.982	4294309.821	5893	30-Oct-13	103013-002.SSF	331549.401	341
722233.824	4294309.728	5662	30-Oct-13	103013-002.SSF	331550.374	342
722233.693	4294309.518	5570	30-Oct-13	103013-002.SSF	331551.424	343
722233.699	4294309.506	5735	30-Oct-13	103013-002.SSF	331552.395	344
722233.722	4294309.508	6166	30-Oct-13	103013-002.SSF	331553.426	345
722233.67	4294309.48	6176	30-Oct-13	103013-002.SSF	331554.387	346
722233.7	4294309.581	5889	30-Oct-13	103013-002.SSF	331555.447	347
722233.739	4294309.566	6200	30-Oct-13	103013-002.SSF	331556.338	348
722233.779	4294309.594	6172	30-Oct-13	103013-002.SSF	331557.441	349
722233.831	4294309.68	6284	30-Oct-13	103013-002.SSF	331558.358	350
722233.795	4294309.705	6167	30-Oct-13	103013-002.SSF	331559.451	351
722233.747	4294309.669	6011	30-Oct-13	103013-002.SSF	331560.356	352
722233.892	4294309.552	5999	30-Oct-13	103013-002.SSF	331561.485	353
722233.937	4294309.43	5767	30-Oct-13	103013-002.SSF	331562.308	354
722233.542	4294309.69	5801	30-Oct-13	103013-002.SSF	331563.4771	355
722232.786	4294310.21	5445	30-Oct-13	103013-002.SSF	331564.33	356
722231.834	4294310.743	5283	30-Oct-13	103013-002.SSF	331565.481	357
722231.651	4294311.191	5124	30-Oct-13	103013-002.SSF	331566.4301	358
722231.886	4294311.803	5665	30-Oct-13	103013-002.SSF	331567.498	359
722232.449	4294312.43	5429	30-Oct-13	103013-002.SSF	331568.375	360
722233.159	4294313.222	6046	30-Oct-13	103013-002.SSF	331569.413	361
722233.665	4294313.804	5981	30-Oct-13	103013-002.SSF	331570.363	362
722234.243	4294314.499	5711	30-Oct-13	103013-002.SSF	331571.484	363
722234.546	4294314.882	5635	30-Oct-13	103013-002.SSF	331572.366	364
722234.868	4294315.253	5584	30-Oct-13	103013-002.SSF	331573.465	365
722234.992	4294315.605	5189	30-Oct-13	103013-002.SSF	331574.3621	366
722234.808	4294316.022	5161	30-Oct-13	103013-002.SSF	331575.468	367
722234.651	4294316.354	4830	30-Oct-13	103013-002.SSF	331576.3781	368
722234.711	4294317.235	4689	30-Oct-13	103013-002.SSF	331577.462	369
722234.697	4294318.24	4820	30-Oct-13	103013-002.SSF	331578.3879	370
722234.581	4294319.239	4908	30-Oct-13	103013-002.SSF	331579.453	371
722234.601	4294320.003	5326	30-Oct-13	103013-002.SSF	331580.276	372
722234.642	4294321.011	5403	30-Oct-13	103013-002.SSF	331581.3521	373
722234.611	4294321.647	5364	30-Oct-13	103013-002.SSF	331582.249	374
722234.625	4294322.262	4810	30-Oct-13	103013-002.SSF	331583.348	375
722234.586	4294322.667	4768	30-Oct-13	103013-002.SSF	331584.255	376

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722234.333	4294322.943	5599	30-Oct-13	103013-002.SSF	331585.455	377
722234.178	4294323.016	5400	30-Oct-13	103013-002.SSF	331586.3199	378
722234.268	4294323.282	4860	30-Oct-13	103013-002.SSF	331587.431	379
722234.344	4294323.497	5193	30-Oct-13	103013-002.SSF	331588.338	380
722234.297	4294323.456	5111	30-Oct-13	103013-002.SSF	331589.407	381
722234.309	4294323.345	4915	30-Oct-13	103013-002.SSF	331590.3311	382
722234.498	4294323.196	4744	30-Oct-13	103013-002.SSF	331591.4139	383
722234.643	4294323.055	4829	30-Oct-13	103013-002.SSF	331592.324	384
722234.765	4294322.819	5243	30-Oct-13	103013-002.SSF	331593.5229	385
722234.875	4294322.627	5634	30-Oct-13	103013-002.SSF	331594.4301	386
722235.16	4294322.389	5022	30-Oct-13	103013-002.SSF	331595.389	387
722235.509	4294322.176	5719	30-Oct-13	103013-002.SSF	331596.266	388
722235.911	4294322.034	5970	30-Oct-13	103013-002.SSF	331597.255	389
722236.374	4294321.977	6628	30-Oct-13	103013-002.SSF	331598.2371	390
722236.812	4294321.939	6615	30-Oct-13	103013-002.SSF	331599.312	391
722237.16	4294322	6368	30-Oct-13	103013-002.SSF	331600.403	392
722237.388	4294322.081	6447	30-Oct-13	103013-002.SSF	331601.386	393
722237.526	4294322.253	6769	30-Oct-13	103013-002.SSF	331602.3719	394
722237.437	4294322.491	6597	30-Oct-13	103013-002.SSF	331603.4919	395
722236.944	4294322.772	6591	30-Oct-13	103013-002.SSF	331604.427	396
722236.297	4294323.07	6250	30-Oct-13	103013-002.SSF	331605.359	397
722235.614	4294323.671	5893	30-Oct-13	103013-002.SSF	331606.36	398
722234.873	4294324.843	5820	30-Oct-13	103013-002.SSF	331607.42	399
722234.404	4294325.859	5613	30-Oct-13	103013-002.SSF	331608.317	400
722234.01	4294327.088	5805	30-Oct-13	103013-002.SSF	331609.407	401
722233.671	4294328.281	5583	30-Oct-13	103013-002.SSF	331610.301	402
722233.299	4294329.835	5750	30-Oct-13	103013-002.SSF	331611.395	403
722233.103	4294331.079	5499	30-Oct-13	103013-002.SSF	331612.3459	404
722232.942	4294332.411	5786	30-Oct-13	103013-002.SSF	331613.39	405
722232.926	4294333.782	5354	30-Oct-13	103013-002.SSF	331614.3719	406
722232.99	4294335.546	4834	30-Oct-13	103013-002.SSF	331615.49	407
722233.042	4294337.099	5089	30-Oct-13	103013-002.SSF	331616.39	408
722233.252	4294338.937	5292	30-Oct-13	103013-002.SSF	331617.4821	409
722233.482	4294340.255	5234	30-Oct-13	103013-002.SSF	331618.356	410
722233.772	4294341.801	5554	30-Oct-13	103013-002.SSF	331619.416	411
722233.857	4294343.123	6124	30-Oct-13	103013-002.SSF	331620.403	412
722233.668	4294344.398	5860	30-Oct-13	103013-002.SSF	331621.45	413
722233.335	4294345.737	5951	30-Oct-13	103013-002.SSF	331622.413	414
722232.98	4294347.109	5762	30-Oct-13	103013-002.SSF	331623.451	415
722232.711	4294347.907	5904	30-Oct-13	103013-002.SSF	331624.342	416
722232.454	4294348.699	6088	30-Oct-13	103013-002.SSF	331625.3831	417
722232.368	4294349.486	6319	30-Oct-13	103013-002.SSF	331626.374	418
722232.451	4294350.007	6637	30-Oct-13	103013-002.SSF	331627.422	419
722232.47	4294350.266	6336	30-Oct-13	103013-002.SSF	331628.392	420
722232.276	4294350.519	6331	30-Oct-13	103013-002.SSF	331629.458	421
722231.967	4294350.712	5789	30-Oct-13	103013-002.SSF	331630.326	422
722231.404	4294350.832	5656	30-Oct-13	103013-002.SSF	331631.395	423

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722230.93	4294350.871	5754	30-Oct-13	103013-002.SSF	331632.26	424
722230.349	4294351.017	5366	30-Oct-13	103013-002.SSF	331633.343	425
722229.963	4294351.054	5216	30-Oct-13	103013-002.SSF	331634.343	426
722229.694	4294351.057	5454	30-Oct-13	103013-002.SSF	331635.408	427
722229.501	4294351.068	5422	30-Oct-13	103013-002.SSF	331636.29	428
722229.383	4294351.072	5945	30-Oct-13	103013-002.SSF	331637.399	429
722229.319	4294351.121	5736	30-Oct-13	103013-002.SSF	331638.236	430
722229.093	4294351.115	5634	30-Oct-13	103013-002.SSF	331639.312	431
722228.715	4294351.005	6019	30-Oct-13	103013-002.SSF	331640.301	432
722228.278	4294350.92	6416	30-Oct-13	103013-002.SSF	331641.3669	433
722227.855	4294350.905	5836	30-Oct-13	103013-002.SSF	331642.316	434
722227.42	4294350.89	5788	30-Oct-13	103013-002.SSF	331643.397	435
722227.088	4294350.833	5318	30-Oct-13	103013-002.SSF	331644.231	436
722226.571	4294350.8	6021	30-Oct-13	103013-002.SSF	331645.3929	437
722226.149	4294350.775	6076	30-Oct-13	103013-002.SSF	331646.3	438
722225.603	4294350.76	6249	30-Oct-13	103013-002.SSF	331647.403	439
722225.055	4294350.741	6328	30-Oct-13	103013-002.SSF	331648.374	440
722224.445	4294350.816	6671	30-Oct-13	103013-002.SSF	331649.4041	441
722223.959	4294350.906	6453	30-Oct-13	103013-002.SSF	331650.304	442
722223.323	4294351.039	6060	30-Oct-13	103013-002.SSF	331651.441	443
722222.854	4294351.12	5688	30-Oct-13	103013-002.SSF	331652.312	444
722222.268	4294351.232	6019	30-Oct-13	103013-002.SSF	331653.428	445
722221.792	4294351.27	6303	30-Oct-13	103013-002.SSF	331654.318	446
722221.247	4294351.361	6448	30-Oct-13	103013-002.SSF	331655.429	447
722220.845	4294351.449	6589	30-Oct-13	103013-002.SSF	331656.312	448
722220.322	4294351.621	6774	30-Oct-13	103013-002.SSF	331657.387	449
722219.774	4294351.767	6510	30-Oct-13	103013-002.SSF	331658.3979	450
722219.211	4294351.889	6339	30-Oct-13	103013-002.SSF	331659.434	451
722218.712	4294351.855	6348	30-Oct-13	103013-002.SSF	331660.329	452
722218.047	4294351.745	6106	30-Oct-13	103013-002.SSF	331661.4189	453
722217.504	4294351.627	6284	30-Oct-13	103013-002.SSF	331662.3409	454
722217.01	4294351.443	6692	30-Oct-13	103013-002.SSF	331663.465	455
722216.74	4294351.305	7244	30-Oct-13	103013-002.SSF	331664.3719	456
722216.561	4294351.156	7502	30-Oct-13	103013-002.SSF	331665.373	457
722216.4	4294351.041	7677	30-Oct-13	103013-002.SSF	331666.293	458
722216.226	4294351.007	7723	30-Oct-13	103013-002.SSF	331667.361	459
722216.185	4294350.999	7704	30-Oct-13	103013-002.SSF	331668.251	460
722215.885	4294350.899	7649	30-Oct-13	103013-002.SSF	331669.377	461
722215.397	4294350.805	7932	30-Oct-13	103013-002.SSF	331670.322	462
722214.85	4294350.702	7469	30-Oct-13	103013-002.SSF	331671.356	463
722214.401	4294350.601	7231	30-Oct-13	103013-002.SSF	331672.3361	464
722213.844	4294350.495	7645	30-Oct-13	103013-002.SSF	331673.4351	465
722213.469	4294350.433	7128	30-Oct-13	103013-002.SSF	331674.3521	466
722213.252	4294350.278	6784	30-Oct-13	103013-002.SSF	331675.434	467
722213.083	4294350.079	6823	30-Oct-13	103013-002.SSF	331676.3101	468
722212.679	4294349.877	7071	30-Oct-13	103013-002.SSF	331677.428	469
722212.438	4294349.629	6992	30-Oct-13	103013-002.SSF	331678.337	470

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722212.425	4294349.402	7248	30-Oct-13	103013-002.SSF	331679.451	471
722212.603	4294349.313	7069	30-Oct-13	103013-002.SSF	331680.35	472
722212.758	4294349.273	6991	30-Oct-13	103013-002.SSF	331681.358	473
722212.832	4294349.273	6887	30-Oct-13	103013-002.SSF	331682.287	474
722212.684	4294349.233	7204	30-Oct-13	103013-002.SSF	331683.366	475
722212.27	4294349.243	7712	30-Oct-13	103013-002.SSF	331684.329	476
722211.811	4294349.288	7946	30-Oct-13	103013-002.SSF	331685.374	477
722211.68	4294349.265	8024	30-Oct-13	103013-002.SSF	331686.34	478
722211.853	4294349.515	7656	30-Oct-13	103013-002.SSF	331687.4189	479
722212.172	4294349.836	7569	30-Oct-13	103013-002.SSF	331688.313	480
722212.465	4294350.008	7542	30-Oct-13	103013-002.SSF	331689.3669	481
722212.531	4294349.935	7782	30-Oct-13	103013-002.SSF	331690.308	482
722212.518	4294349.846	7715	30-Oct-13	103013-002.SSF	331691.3621	483
722212.523	4294349.686	8442	30-Oct-13	103013-002.SSF	331692.2629	484
722212.423	4294349.531	7868	30-Oct-13	103013-002.SSF	331693.334	485
722212.336	4294349.512	7673	30-Oct-13	103013-002.SSF	331694.286	486
722212.231	4294349.599	7428	30-Oct-13	103013-002.SSF	331695.338	487
722212.086	4294349.601	7538	30-Oct-13	103013-002.SSF	331696.2841	488
722211.949	4294349.537	8028	30-Oct-13	103013-002.SSF	331697.34	489
722211.923	4294349.523	7448	30-Oct-13	103013-002.SSF	331698.314	490
722212.047	4294349.579	7504	30-Oct-13	103013-002.SSF	331699.4139	491
722212.13	4294349.704	7086	30-Oct-13	103013-002.SSF	331700.309	492
722212.125	4294349.826	7481	30-Oct-13	103013-002.SSF	331701.3521	493
722212.201	4294349.801	8063	30-Oct-13	103013-002.SSF	331702.328	494
722212.604	4294349.751	7828	30-Oct-13	103013-002.SSF	331703.3831	495
722213.062	4294349.711	7583	30-Oct-13	103013-002.SSF	331704.3361	496
722213.413	4294349.441	8173	30-Oct-13	103013-002.SSF	331705.3521	497
722213.739	4294349.269	7687	30-Oct-13	103013-002.SSF	331706.2419	498
722214.32	4294349.405	7751	30-Oct-13	103013-002.SSF	331707.337	499
722214.922	4294349.725	7795	30-Oct-13	103013-002.SSF	331708.231	500
722215.619	4294350.015	7894	30-Oct-13	103013-002.SSF	331709.339	501
722216.119	4294350.062	7808	30-Oct-13	103013-002.SSF	331710.3361	502
722216.537	4294350.088	7774	30-Oct-13	103013-002.SSF	331711.353	503
722216.933	4294350.137	7710	30-Oct-13	103013-002.SSF	331712.328	504
722217.164	4294350.269	7599	30-Oct-13	103013-002.SSF	331713.416	505
722217.244	4294350.582	7087	30-Oct-13	103013-002.SSF	331714.3669	506
722217.382	4294350.971	6356	30-Oct-13	103013-002.SSF	331715.356	507
722217.47	4294351.224	6455	30-Oct-13	103013-002.SSF	331716.325	508
722217.39	4294351.516	6953	30-Oct-13	103013-002.SSF	331717.411	509
722217.257	4294351.776	6663	30-Oct-13	103013-002.SSF	331718.343	510
722217.11	4294352.041	7701	30-Oct-13	103013-002.SSF	331719.374	511
722216.852	4294352.209	8156	30-Oct-13	103013-002.SSF	331720.366	512
722216.423	4294352.305	8638	30-Oct-13	103013-002.SSF	331721.442	513
722216.176	4294352.429	8159	30-Oct-13	103013-002.SSF	331722.355	514
722216.038	4294352.575	8309	30-Oct-13	103013-002.SSF	331723.371	515
722215.823	4294352.666	7974	30-Oct-13	103013-002.SSF	331724.39	516
722215.44	4294352.672	7935	30-Oct-13	103013-002.SSF	331725.433	517

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722214.956	4294352.696	7966	30-Oct-13	103013-002.SSF	331726.358	518
722214.493	4294352.664	7556	30-Oct-13	103013-002.SSF	331727.376	519
722214.022	4294352.626	7595	30-Oct-13	103013-002.SSF	331728.392	520
722213.479	4294352.523	7497	30-Oct-13	103013-002.SSF	331729.394	521
722212.921	4294352.487	7479	30-Oct-13	103013-002.SSF	331730.347	522
722212.349	4294352.437	7305	30-Oct-13	103013-002.SSF	331731.475	523
722211.922	4294352.507	7266	30-Oct-13	103013-002.SSF	331732.326	524
722211.429	4294352.553	7447	30-Oct-13	103013-002.SSF	331733.4301	525
722211.053	4294352.474	6844	30-Oct-13	103013-002.SSF	331734.314	526
722210.561	4294352.562	6962	30-Oct-13	103013-002.SSF	331735.361	527
722210.032	4294352.876	6571	30-Oct-13	103013-002.SSF	331736.338	528
722209.684	4294353.309	6591	30-Oct-13	103013-002.SSF	331737.4399	529
722209.823	4294353.49	6550	30-Oct-13	103013-002.SSF	331738.356	530
722210.474	4294353.354	6542	30-Oct-13	103013-002.SSF	331739.417	531
722211.251	4294353.241	7047	30-Oct-13	103013-002.SSF	331740.376	532
722212.082	4294353.08	6769	30-Oct-13	103013-002.SSF	331741.381	533
722212.88	4294353.059	6607	30-Oct-13	103013-002.SSF	331742.309	534
722213.748	4294353.17	6141	30-Oct-13	103013-002.SSF	331743.395	535
722214.388	4294353.404	6537	30-Oct-13	103013-002.SSF	331744.307	536
722214.791	4294353.711	6969	30-Oct-13	103013-002.SSF	331745.407	537
722215.013	4294353.942	6997	30-Oct-13	103013-002.SSF	331746.3101	538
722215.243	4294354.099	8027	30-Oct-13	103013-002.SSF	331747.407	539
722215.415	4294354.102	7988	30-Oct-13	103013-002.SSF	331748.309	540
722215.802	4294354.251	8355	30-Oct-13	103013-002.SSF	331749.412	541
722216.128	4294354.386	8525	30-Oct-13	103013-002.SSF	331750.3101	542
722216.524	4294354.398	8005	30-Oct-13	103013-002.SSF	331751.408	543
722216.694	4294354.39	7510	30-Oct-13	103013-002.SSF	331752.354	544
722216.83	4294354.392	6954	30-Oct-13	103013-002.SSF	331753.408	545
722217.053	4294354.375	7609	30-Oct-13	103013-002.SSF	331754.335	546
722217.493	4294354.38	6732	30-Oct-13	103013-002.SSF	331755.365	547
722217.924	4294354.377	6187	30-Oct-13	103013-002.SSF	331756.2679	548
722218.403	4294354.381	5887	30-Oct-13	103013-002.SSF	331757.369	549
722218.794	4294354.394	6176	30-Oct-13	103013-002.SSF	331758.339	550
722219.216	4294354.504	5934	30-Oct-13	103013-002.SSF	331759.312	551
722219.534	4294354.567	6675	30-Oct-13	103013-002.SSF	331760.261	552
722219.814	4294354.57	6747	30-Oct-13	103013-002.SSF	331761.386	553
722220.06	4294354.611	6375	30-Oct-13	103013-002.SSF	331762.283	554
722220.592	4294354.603	6143	30-Oct-13	103013-002.SSF	331763.303	555
722221.167	4294354.448	6260	30-Oct-13	103013-002.SSF	331764.274	556
722221.88	4294354.312	6139	30-Oct-13	103013-002.SSF	331765.308	557
722222.508	4294354.265	5996	30-Oct-13	103013-002.SSF	331766.276	558
722223.075	4294354.301	6102	30-Oct-13	103013-002.SSF	331767.291	559
722223.516	4294354.344	6342	30-Oct-13	103013-002.SSF	331768.252	560
722223.925	4294354.443	6342	30-Oct-13	103013-002.SSF	331769.375	561
722224.425	4294354.589	6050	30-Oct-13	103013-002.SSF	331770.3409	562
722224.932	4294354.757	6470	30-Oct-13	103013-002.SSF	331771.371	563
722225.415	4294354.929	6197	30-Oct-13	103013-002.SSF	331772.3149	564

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722225.962	4294355.094	6028	30-Oct-13	103013-002.SSF	331773.366	565
722226.444	4294355.332	5963	30-Oct-13	103013-002.SSF	331774.291	566
722226.769	4294355.589	6092	30-Oct-13	103013-002.SSF	331775.438	567
722226.823	4294355.624	6066	30-Oct-13	103013-002.SSF	331776.321	568
722226.95	4294355.654	5970	30-Oct-13	103013-002.SSF	331777.337	569
722227.344	4294355.681	5915	30-Oct-13	103013-002.SSF	331778.218	570
722228.414	4294355.555	5915	30-Oct-13	103013-002.SSF	331779.349	571
722229.391	4294355.566	5599	30-Oct-13	103013-002.SSF	331780.316	572
722230.29	4294355.656	6112	30-Oct-13	103013-002.SSF	331781.381	573
722230.915	4294355.781	6160	30-Oct-13	103013-002.SSF	331782.329	574
722231.469	4294355.864	6502	30-Oct-13	103013-002.SSF	331783.415	575
722231.943	4294355.897	6485	30-Oct-13	103013-002.SSF	331784.306	576
722232.62	4294355.972	6205	30-Oct-13	103013-002.SSF	331785.322	577
722233.235	4294355.963	6475	30-Oct-13	103013-002.SSF	331786.238	578
722233.878	4294355.919	5975	30-Oct-13	103013-002.SSF	331787.3	579
722234.492	4294356.051	5910	30-Oct-13	103013-002.SSF	331788.276	580
722235.28	4294356.299	6182	30-Oct-13	103013-002.SSF	331789.3409	581
722235.823	4294356.331	5652	30-Oct-13	103013-002.SSF	331790.302	582
722236.397	4294356.333	6112	30-Oct-13	103013-002.SSF	331791.421	583
722236.852	4294356.391	5785	30-Oct-13	103013-002.SSF	331792.335	584
722237.361	4294356.45	6262	30-Oct-13	103013-002.SSF	331793.351	585
722237.995	4294356.562	6484	30-Oct-13	103013-002.SSF	331794.321	586
722238.87	4294356.68	6302	30-Oct-13	103013-002.SSF	331795.438	587
722239.722	4294356.614	6627	30-Oct-13	103013-002.SSF	331796.335	588
722240.569	4294356.197	6480	30-Oct-13	103013-002.SSF	331797.382	589
722241.228	4294355.921	6780	30-Oct-13	103013-002.SSF	331798.34	590
722241.876	4294355.912	6806	30-Oct-13	103013-002.SSF	331799.397	591
722242.11	4294356.244	6753	30-Oct-13	103013-002.SSF	331800.293	592
722242.063	4294356.775	6821	30-Oct-13	103013-002.SSF	331801.3879	593
722241.607	4294356.827	6447	30-Oct-13	103013-002.SSF	331802.304	594
722241.014	4294356.765	6371	30-Oct-13	103013-002.SSF	331803.38	595
722240.524	4294356.822	6044	30-Oct-13	103013-002.SSF	331804.2581	596
722239.882	4294356.925	6077	30-Oct-13	103013-002.SSF	331805.302	597
722239.306	4294357.086	5803	30-Oct-13	103013-002.SSF	331806.304	598
722238.713	4294357.214	5604	30-Oct-13	103013-002.SSF	331807.365	599
722238.103	4294357.215	5635	30-Oct-13	103013-002.SSF	331808.376	600
722237.466	4294357.194	5869	30-Oct-13	103013-002.SSF	331809.348	601
722236.854	4294357.176	6106	30-Oct-13	103013-002.SSF	331810.3719	602
722236.397	4294357.094	6352	30-Oct-13	103013-002.SSF	331811.318	603
722236.186	4294357.167	6355	30-Oct-13	103013-002.SSF	331812.295	604
722236.239	4294357.637	6380	30-Oct-13	103013-002.SSF	331813.306	605
722236.43	4294358.073	5913	30-Oct-13	103013-002.SSF	331814.298	606
722236.63	4294358.496	5959	30-Oct-13	103013-002.SSF	331815.358	607
722236.829	4294358.518	5549	30-Oct-13	103013-002.SSF	331816.2791	608
722237.13	4294358.375	5619	30-Oct-13	103013-002.SSF	331817.301	609
722237.553	4294358.346	6010	30-Oct-13	103013-002.SSF	331818.277	610
722237.963	4294358.22	5773	30-Oct-13	103013-002.SSF	331819.355	611

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722238.456	4294358.173	5325	30-Oct-13	103013-002.SSF	331820.292	612
722239.173	4294358.057	5673	30-Oct-13	103013-002.SSF	331821.278	613
722239.996	4294357.919	6063	30-Oct-13	103013-002.SSF	331822.277	614
722240.58	4294357.678	6343	30-Oct-13	103013-002.SSF	331823.275	615
722240.866	4294357.537	7190	30-Oct-13	103013-002.SSF	331824.281	616
722240.786	4294357.787	6992	30-Oct-13	103013-002.SSF	331825.342	617
722240.543	4294358.187	7698	30-Oct-13	103013-002.SSF	331826.229	618
722240.074	4294358.573	7502	30-Oct-13	103013-002.SSF	331827.295	619
722239.687	4294358.915	6687	30-Oct-13	103013-002.SSF	331828.27	620
722239.294	4294359.107	6739	30-Oct-13	103013-002.SSF	331829.306	621
722238.817	4294359.182	6528	30-Oct-13	103013-002.SSF	331830.323	622
722238.291	4294359.188	6559	30-Oct-13	103013-002.SSF	331831.3	623
722237.749	4294359.217	6495	30-Oct-13	103013-002.SSF	331832.27	624
722237.17	4294359.269	6045	30-Oct-13	103013-002.SSF	331833.34	625
722236.794	4294359.257	7008	30-Oct-13	103013-002.SSF	331834.303	626
722236.661	4294359.161	7512	30-Oct-13	103013-002.SSF	331835.356	627
722236.722	4294358.926	6565	30-Oct-13	103013-002.SSF	331836.249	628
722237.302	4294358.563	6033	30-Oct-13	103013-002.SSF	331837.298	629
722237.721	4294358.061	5853	30-Oct-13	103013-002.SSF	331838.278	630
722237.948	4294357.639	5962	30-Oct-13	103013-002.SSF	331839.3199	631
722238.076	4294357.241	5776	30-Oct-13	103013-002.SSF	331840.209	632
722237.96	4294356.57	6046	30-Oct-13	103013-002.SSF	331841.326	633
722237.896	4294355.889	5726	30-Oct-13	103013-002.SSF	331842.181	634
722237.828	4294354.961	5831	30-Oct-13	103013-002.SSF	331843.323	635
722237.785	4294354.284	5860	30-Oct-13	103013-002.SSF	331844.24	636
722237.811	4294353.535	6033	30-Oct-13	103013-002.SSF	331845.374	637
722237.853	4294353.155	5718	30-Oct-13	103013-002.SSF	331846.3199	638
722238.008	4294352.895	6074	30-Oct-13	103013-002.SSF	331847.394	639
722238.323	4294352.846	6454	30-Oct-13	103013-002.SSF	331848.298	640
722238.755	4294352.926	6840	30-Oct-13	103013-002.SSF	331849.312	641
722239.259	4294352.876	6360	30-Oct-13	103013-002.SSF	331850.302	642
722239.833	4294352.727	6045	30-Oct-13	103013-002.SSF	331851.321	643
722240.275	4294352.657	5748	30-Oct-13	103013-002.SSF	331852.259	644
722240.747	4294352.583	5865	30-Oct-13	103013-002.SSF	331853.314	645
722241.081	4294352.475	6319	30-Oct-13	103013-002.SSF	331854.259	646
722241.405	4294352.397	6971	30-Oct-13	103013-002.SSF	331855.276	647
722241.629	4294352.189	7101	30-Oct-13	103013-002.SSF	331856.255	648
722241.65	4294351.943	6994	30-Oct-13	103013-002.SSF	331857.337	649
722241.68	4294351.955	6806	30-Oct-13	103013-002.SSF	331858.175	650
722241.765	4294352.415	6558	30-Oct-13	103013-002.SSF	331859.275	651
722241.673	4294352.876	6554	30-Oct-13	103013-002.SSF	331860.3101	652
722241.615	4294353.33	6416	30-Oct-13	103013-002.SSF	331861.326	653
722241.538	4294353.695	5927	30-Oct-13	103013-002.SSF	331862.318	654
722241.23	4294353.875	6274	30-Oct-13	103013-002.SSF	331863.387	655
722240.742	4294353.906	6371	30-Oct-13	103013-002.SSF	331864.271	656
722240.012	4294353.911	6051	30-Oct-13	103013-002.SSF	331865.3719	657
722239.505	4294353.874	6119	30-Oct-13	103013-002.SSF	331866.2729	658

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722239.035	4294353.716	6254	30-Oct-13	103013-002.SSF	331867.3459	659
722238.578	4294353.649	6585	30-Oct-13	103013-002.SSF	331868.299	660
722238.01	4294353.641	6059	30-Oct-13	103013-002.SSF	331869.3781	661
722237.366	4294353.711	5636	30-Oct-13	103013-002.SSF	331870.302	662
722236.64	4294353.715	5900	30-Oct-13	103013-002.SSF	331871.316	663
722236.01	4294353.683	5988	30-Oct-13	103013-002.SSF	331872.293	664
722235.362	4294353.71	5633	30-Oct-13	103013-002.SSF	331873.3669	665
722234.933	4294353.671	5696	30-Oct-13	103013-002.SSF	331874.319	666
722234.518	4294353.671	5716	30-Oct-13	103013-002.SSF	331875.3459	667
722234.216	4294353.752	5368	30-Oct-13	103013-002.SSF	331876.345	668
722234.247	4294353.758	5704	30-Oct-13	103013-002.SSF	331877.412	669
722234.569	4294353.535	5264	30-Oct-13	103013-002.SSF	331878.351	670
722234.91	4294353.092	5713	30-Oct-13	103013-002.SSF	331879.353	671
722235.057	4294352.461	5763	30-Oct-13	103013-002.SSF	331880.298	672
722235.325	4294351.621	5679	30-Oct-13	103013-002.SSF	331881.358	673
722235.55	4294351.225	5910	30-Oct-13	103013-002.SSF	331882.217	674
722235.35	4294351.067	5791	30-Oct-13	103013-002.SSF	331883.3409	675
722234.949	4294351.016	5447	30-Oct-13	103013-002.SSF	331884.293	676
722234.362	4294351.198	5456	30-Oct-13	103013-002.SSF	331885.365	677
722233.619	4294351.545	5522	30-Oct-13	103013-002.SSF	331886.292	678
722232.746	4294352.056	5318	30-Oct-13	103013-002.SSF	331887.301	679
722231.964	4294352.369	5556	30-Oct-13	103013-002.SSF	331888.222	680
722230.805	4294352.436	5413	30-Oct-13	103013-002.SSF	331889.328	681
722229.931	4294352.468	5370	30-Oct-13	103013-002.SSF	331890.291	682
722229.312	4294352.561	5285	30-Oct-13	103013-002.SSF	331891.3199	683
722228.788	4294352.545	5500	30-Oct-13	103013-002.SSF	331892.192	684
722228.078	4294352.411	5486	30-Oct-13	103013-002.SSF	331893.334	685
722227.311	4294352.48	5943	30-Oct-13	103013-002.SSF	331894.252	686
722226.405	4294352.82	5818	30-Oct-13	103013-002.SSF	331895.3879	687
722225.804	4294352.987	5740	30-Oct-13	103013-002.SSF	331896.299	688
722225.234	4294352.961	5508	30-Oct-13	103013-002.SSF	331897.3051	689
722224.743	4294352.878	5746	30-Oct-13	103013-002.SSF	331898.321	690
722224.261	4294352.762	6097	30-Oct-13	103013-002.SSF	331899.316	691
722223.647	4294352.705	5799	30-Oct-13	103013-002.SSF	331900.33	692
722222.722	4294352.725	6015	30-Oct-13	103013-002.SSF	331901.345	693
722221.846	4294352.85	6488	30-Oct-13	103013-002.SSF	331902.345	694
722221.036	4294352.929	6492	30-Oct-13	103013-002.SSF	331903.3521	695
722220.257	4294353.043	6052	30-Oct-13	103013-002.SSF	331904.2419	696
722219.408	4294353.176	5819	30-Oct-13	103013-002.SSF	331905.343	697
722218.826	4294353.16	5860	30-Oct-13	103013-002.SSF	331906.304	698
722218.254	4294353.096	5554	30-Oct-13	103013-002.SSF	331907.33	699
722217.917	4294353.009	5974	30-Oct-13	103013-002.SSF	331908.311	700
722217.584	4294352.901	6262	30-Oct-13	103013-002.SSF	331909.3051	701
722217.039	4294352.827	6347	30-Oct-13	103013-002.SSF	331910.3361	702
722216.553	4294352.736	6465	30-Oct-13	103013-002.SSF	331911.351	703
722216.133	4294352.626	7409	30-Oct-13	103013-002.SSF	331912.3051	704
722215.616	4294352.627	7670	30-Oct-13	103013-002.SSF	331913.382	705

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722214.932	4294352.687	7629	30-Oct-13	103013-002.SSF	331914.25	706
722214.118	4294352.765	8094	30-Oct-13	103013-002.SSF	331915.347	707
722213.487	4294352.875	7957	30-Oct-13	103013-002.SSF	331916.351	708
722212.911	4294353.102	7611	30-Oct-13	103013-002.SSF	331917.3199	709
722212.212	4294353.369	6801	30-Oct-13	103013-002.SSF	331918.371	710
722211.538	4294353.548	6495	30-Oct-13	103013-002.SSF	331919.365	711
722211.053	4294353.709	7223	30-Oct-13	103013-002.SSF	331920.181	712
722210.47	4294353.944	7356	30-Oct-13	103013-002.SSF	331921.2581	713
722209.924	4294354.147	6882	30-Oct-13	103013-002.SSF	331922.235	714
722209.214	4294354.212	6406	30-Oct-13	103013-002.SSF	331923.272	715
722208.565	4294354.27	6596	30-Oct-13	103013-002.SSF	331924.244	716
722208.289	4294354.477	6897	30-Oct-13	103013-002.SSF	331925.3101	717
722208.354	4294354.515	6497	30-Oct-13	103013-002.SSF	331926.291	718
722208.349	4294354.46	6925	30-Oct-13	103013-002.SSF	331927.293	719
722208.302	4294354.483	6595	30-Oct-13	103013-002.SSF	331928.2679	720
722208.268	4294354.422	6679	30-Oct-13	103013-002.SSF	331929.302	721
722208.249	4294354.36	6307	30-Oct-13	103013-002.SSF	331930.276	722
722208.177	4294354.34	6292	30-Oct-13	103013-002.SSF	331931.366	723
722208.013	4294354.33	6757	30-Oct-13	103013-002.SSF	331932.312	724
722207.884	4294354.312	6853	30-Oct-13	103013-002.SSF	331933.3409	725
722207.844	4294354.296	7462	30-Oct-13	103013-002.SSF	331934.278	726
722207.826	4294354.267	7422	30-Oct-13	103013-002.SSF	331935.28	727
722207.822	4294354.277	7340	30-Oct-13	103013-002.SSF	331936.226	728
722207.789	4294354.27	6633	30-Oct-13	103013-002.SSF	331937.2371	729
722207.755	4294354.266	7114	30-Oct-13	103013-002.SSF	331938.22	730
722207.731	4294354.242	6836	30-Oct-13	103013-002.SSF	331939.2419	731
722207.699	4294354.167	6755	30-Oct-13	103013-002.SSF	331940.276	732
722207.685	4294354.136	6882	30-Oct-13	103013-002.SSF	331941.316	733
722207.715	4294354.114	7058	30-Oct-13	103013-002.SSF	331942.283	734
722207.78	4294354.026	6895	30-Oct-13	103013-002.SSF	331943.363	735
722207.763	4294353.976	7021	30-Oct-13	103013-002.SSF	331944.199	736
722207.609	4294354.107	7241	30-Oct-13	103013-002.SSF	331945.292	737
722207.392	4294354.067	6781	30-Oct-13	103013-002.SSF	331946.298	738
722207.19	4294353.758	6851	30-Oct-13	103013-002.SSF	331947.303	739
722207.046	4294353.366	6726	30-Oct-13	103013-002.SSF	331948.2791	740
722207.101	4294353.213	7023	30-Oct-13	103013-002.SSF	331949.316	741
722207.298	4294353.261	7296	30-Oct-13	103013-002.SSF	331950.333	742
722207.526	4294353.281	7531	30-Oct-13	103013-002.SSF	331951.347	743
722207.846	4294353.284	7049	30-Oct-13	103013-002.SSF	331952.27	744
722208.344	4294353.22	6350	30-Oct-13	103013-002.SSF	331953.323	745
722208.674	4294353.068	6497	30-Oct-13	103013-002.SSF	331954.27	746
722208.878	4294352.742	6752	30-Oct-13	103013-002.SSF	331955.323	747
722208.881	4294352.372	6993	30-Oct-13	103013-002.SSF	331956.25	748
722208.639	4294351.915	7376	30-Oct-13	103013-002.SSF	331957.318	749
722208.321	4294351.809	7269	30-Oct-13	103013-002.SSF	331958.241	750
722208.211	4294351.866	7156	30-Oct-13	103013-002.SSF	331959.33	751
722208.404	4294352.008	7715	30-Oct-13	103013-002.SSF	331960.274	752

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722208.673	4294352.317	7992	30-Oct-13	103013-002.SSF	331961.314	753
722208.737	4294352.612	8170	30-Oct-13	103013-002.SSF	331962.238	754
722208.71	4294352.888	7633	30-Oct-13	103013-002.SSF	331963.2791	755
722208.408	4294352.993	7361	30-Oct-13	103013-002.SSF	331964.3199	756
722208.012	4294353.173	6735	30-Oct-13	103013-002.SSF	331965.281	757
722207.51	4294353.427	6646	30-Oct-13	103013-002.SSF	331966.241	758
722206.969	4294353.916	7008	30-Oct-13	103013-002.SSF	331967.308	759
722206.549	4294354.474	7699	30-Oct-13	103013-002.SSF	331968.288	760
722206.184	4294355.065	7781	30-Oct-13	103013-002.SSF	331969.3	761
722205.826	4294355.649	7601	30-Oct-13	103013-002.SSF	331970.26	762
722205.36	4294356.021	8266	30-Oct-13	103013-002.SSF	331971.34	763
722204.918	4294356.104	8452	30-Oct-13	103013-002.SSF	331972.214	764
722204.248	4294356.105	7792	30-Oct-13	103013-002.SSF	331973.324	765
722203.399	4294356.198	7623	30-Oct-13	103013-002.SSF	331974.348	766
722202.669	4294356.077	7527	30-Oct-13	103013-002.SSF	331975.282	767
722202.379	4294355.915	8059	30-Oct-13	103013-002.SSF	331976.2791	768
722202.069	4294355.987	7991	30-Oct-13	103013-002.SSF	331977.302	769
722201.631	4294356.301	8020	30-Oct-13	103013-002.SSF	331978.29	770
722201.184	4294356.602	7706	30-Oct-13	103013-002.SSF	331979.353	771
722200.957	4294356.697	7784	30-Oct-13	103013-002.SSF	331980.213	772
722200.899	4294356.812	8001	30-Oct-13	103013-002.SSF	331981.2841	773
722200.91	4294357.016	7868	30-Oct-13	103013-002.SSF	331982.25	774
722200.995	4294357.191	8318	30-Oct-13	103013-002.SSF	331983.2889	775
722201.034	4294357.283	8159	30-Oct-13	103013-002.SSF	331984.182	776
722201.072	4294357.366	8324	30-Oct-13	103013-002.SSF	331985.277	777
722201.153	4294357.439	8635	30-Oct-13	103013-002.SSF	331986.281	778
722201.275	4294357.505	9342	30-Oct-13	103013-002.SSF	331987.36	779
722201.361	4294357.568	8525	30-Oct-13	103013-002.SSF	331988.2371	780
722201.467	4294357.657	8477	30-Oct-13	103013-002.SSF	331989.3199	781
722201.561	4294357.739	7858	30-Oct-13	103013-002.SSF	331990.285	782
722201.659	4294357.82	7743	30-Oct-13	103013-002.SSF	331991.366	783
722201.715	4294357.876	8105	30-Oct-13	103013-002.SSF	331992.288	784
722201.742	4294357.924	7986	30-Oct-13	103013-002.SSF	331993.355	785
722201.779	4294357.956	8317	30-Oct-13	103013-002.SSF	331994.234	786
722201.83	4294358.017	8098	30-Oct-13	103013-002.SSF	331995.318	787
722201.859	4294358.076	8643	30-Oct-13	103013-002.SSF	331996.292	788
722201.868	4294358.115	8296	30-Oct-13	103013-002.SSF	331997.334	789
722201.903	4294358.152	8491	30-Oct-13	103013-002.SSF	331998.2679	790
722201.924	4294358.166	8466	30-Oct-13	103013-002.SSF	331999.301	791
722201.948	4294358.176	8430	30-Oct-13	103013-002.SSF	332000.292	792
722201.95	4294358.203	8341	30-Oct-13	103013-002.SSF	332001.3669	793
722201.938	4294358.222	8059	30-Oct-13	103013-002.SSF	332002.297	794
722201.943	4294358.182	8298	30-Oct-13	103013-002.SSF	332003.3879	795
722201.958	4294358.066	8005	30-Oct-13	103013-002.SSF	332004.3051	796
722201.937	4294357.993	8065	30-Oct-13	103013-002.SSF	332005.288	797
722201.738	4294358.002	7957	30-Oct-13	103013-002.SSF	332006.233	798
722201.56	4294358.035	8233	30-Oct-13	103013-002.SSF	332007.2581	799

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722201.606	4294358.093	7833	30-Oct-13	103013-002.SSF	332008.1281	800
722201.89	4294358.222	7376	30-Oct-13	103013-002.SSF	332009.2321	801
722202.081	4294358.317	7921	30-Oct-13	103013-002.SSF	332010.316	802
722202.146	4294358.383	7988	30-Oct-13	103013-002.SSF	332011.29	803
722202.162	4294358.411	7958	30-Oct-13	103013-002.SSF	332012.316	804
722202.175	4294358.434	7889	30-Oct-13	103013-002.SSF	332013.321	805
722202.181	4294358.488	8037	30-Oct-13	103013-002.SSF	332014.309	806
722202.194	4294358.599	7798	30-Oct-13	103013-002.SSF	332015.304	807
722202.202	4294358.698	8046	30-Oct-13	103013-002.SSF	332016.172	808
722202.206	4294358.813	8186	30-Oct-13	103013-002.SSF	332017.3149	809
722202.116	4294358.816	8287	30-Oct-13	103013-002.SSF	332018.239	810
722202.096	4294358.714	8261	30-Oct-13	103013-002.SSF	332019.317	811
722201.978	4294358.74	8847	30-Oct-13	103013-002.SSF	332020.282	812
722201.438	4294358.822	8539	30-Oct-13	103013-002.SSF	332021.324	813
722201.109	4294358.892	8560	30-Oct-13	103013-002.SSF	332022.241	814
722200.785	4294358.981	8617	30-Oct-13	103013-002.SSF	332023.291	815
722200.768	4294358.924	8297	30-Oct-13	103013-002.SSF	332024.2469	816
722200.915	4294358.861	7742	30-Oct-13	103013-002.SSF	332025.281	817
722201.004	4294358.88	8112	30-Oct-13	103013-002.SSF	332026.23	818
722201.049	4294358.891	7991	30-Oct-13	103013-002.SSF	332027.281	819
722201.078	4294358.886	7967	30-Oct-13	103013-002.SSF	332028.163	820
722201.125	4294358.873	8119	30-Oct-13	103013-002.SSF	332029.2271	821
722201.153	4294358.85	8039	30-Oct-13	103013-002.SSF	332030.1479	822
722201.185	4294358.819	8339	30-Oct-13	103013-002.SSF	332031.274	823
722201.208	4294358.796	8591	30-Oct-13	103013-002.SSF	332032.244	824
722201.228	4294358.774	8380	30-Oct-13	103013-002.SSF	332033.246	825
722201.253	4294358.731	8381	30-Oct-13	103013-002.SSF	332034.123	826
722201.427	4294358.528	8224	30-Oct-13	103013-002.SSF	332035.271	827
722201.543	4294358.412	8271	30-Oct-13	103013-002.SSF	332036.23	828
722201.48	4294358.427	8095	30-Oct-13	103013-002.SSF	332037.293	829
722201.463	4294358.49	8483	30-Oct-13	103013-002.SSF	332038.188	830
722201.434	4294358.546	7847	30-Oct-13	103013-002.SSF	332039.298	831
722201.461	4294358.564	7623	30-Oct-13	103013-002.SSF	332040.2679	832
722201.577	4294358.584	7618	30-Oct-13	103013-002.SSF	332041.265	833
722201.602	4294358.62	7930	30-Oct-13	103013-002.SSF	332042.249	834
722201.494	4294358.803	7438	30-Oct-13	103013-002.SSF	332043.306	835
722201.451	4294358.895	7559	30-Oct-13	103013-002.SSF	332044.175	836
722201.427	4294358.632	7949	30-Oct-13	103013-002.SSF	332045.339	837
722201.323	4294358.571	7846	30-Oct-13	103013-002.SSF	332046.199	838
722200.886	4294358.384	8426	30-Oct-13	103013-002.SSF	332047.33	839
722200.487	4294358.14	8354	30-Oct-13	103013-002.SSF	332048.233	840
722200.391	4294357.646	7977	30-Oct-13	103013-002.SSF	332049.333	841
722200.341	4294357.207	7944	30-Oct-13	103013-002.SSF	332050.1591	842
722200.152	4294356.972	8046	30-Oct-13	103013-002.SSF	332051.25	843
722200.047	4294356.944	8141	30-Oct-13	103013-002.SSF	332052.276	844
722200.053	4294357.009	8111	30-Oct-13	103013-002.SSF	332053.3521	845
722200.117	4294357.101	8035	30-Oct-13	103013-002.SSF	332054.204	846

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722200.208	4294357.206	7999	30-Oct-13	103013-002.SSF	332055.278	847
722200.294	4294357.293	8280	30-Oct-13	103013-002.SSF	332056.192	848
722200.39	4294357.186	7642	30-Oct-13	103013-002.SSF	332057.24	849
722200.444	4294356.801	7298	30-Oct-13	103013-002.SSF	332058.264	850
722200.491	4294356.471	7165	30-Oct-13	103013-002.SSF	332059.2629	851
722200.271	4294356.008	6933	30-Oct-13	103013-002.SSF	332060.316	852
722200.195	4294355.801	7597	30-Oct-13	103013-002.SSF	332061.271	853
722200.138	4294355.683	8098	30-Oct-13	103013-002.SSF	332062.321	854
722200.126	4294355.617	8493	30-Oct-13	103013-002.SSF	332063.319	855
722200.125	4294355.557	8229	30-Oct-13	103013-002.SSF	332064.297	856
722200.104	4294355.479	8101	30-Oct-13	103013-002.SSF	332065.259	857
722200.101	4294355.397	7999	30-Oct-13	103013-002.SSF	332066.267	858
722200.016	4294355.299	7814	30-Oct-13	103013-002.SSF	332067.2419	859
722199.669	4294355.055	7958	30-Oct-13	103013-002.SSF	332068.205	860
722199.278	4294354.677	7581	30-Oct-13	103013-002.SSF	332069.295	861
722199.006	4294354.578	7752	30-Oct-13	103013-002.SSF	332070.226	862
722198.811	4294354.584	7173	30-Oct-13	103013-002.SSF	332071.295	863
722198.712	4294354.548	7410	30-Oct-13	103013-002.SSF	332072.163	864
722198.594	4294354.45	7745	30-Oct-13	103013-002.SSF	332073.2159	865
722198.542	4294354.279	7634	30-Oct-13	103013-002.SSF	332074.157	866
722198.335	4294353.794	8209	30-Oct-13	103013-002.SSF	332075.277	867
722197.926	4294353.321	8255	30-Oct-13	103013-002.SSF	332076.219	868
722197.605	4294352.809	7898	30-Oct-13	103013-002.SSF	332077.317	869
722197.578	4294352.487	7495	30-Oct-13	103013-002.SSF	332078.1639	870
722197.735	4294352.062	7441	30-Oct-13	103013-002.SSF	332079.312	871
722197.877	4294351.613	7178	30-Oct-13	103013-002.SSF	332080.217	872
722197.952	4294350.994	7397	30-Oct-13	103013-002.SSF	332081.236	873
722198.082	4294350.628	7528	30-Oct-13	103013-002.SSF	332082.153	874
722198.268	4294350.167	7782	30-Oct-13	103013-002.SSF	332083.173	875
722198.495	4294349.771	8195	30-Oct-13	103013-002.SSF	332084.2321	876
722198.7	4294349.563	8442	30-Oct-13	103013-002.SSF	332085.174	877
722198.812	4294349.593	7546	30-Oct-13	103013-002.SSF	332086.109	878
722199.173	4294349.469	7537	30-Oct-13	103013-002.SSF	332087.251	879
722199.419	4294349.476	7884	30-Oct-13	103013-002.SSF	332088.094	880
722199.875	4294349.423	7832	30-Oct-13	103013-002.SSF	332089.228	881
722200.171	4294349.432	7908	30-Oct-13	103013-002.SSF	332090.3051	882
722200.385	4294349.416	8056	30-Oct-13	103013-002.SSF	332091.37	883
722200.516	4294349.36	7674	30-Oct-13	103013-002.SSF	332092.251	884
722200.739	4294349.179	7556	30-Oct-13	103013-002.SSF	332093.3	885
722200.922	4294348.921	7063	30-Oct-13	103013-002.SSF	332094.271	886
722201.1	4294348.354	7415	30-Oct-13	103013-002.SSF	332095.303	887
722201.497	4294347.7	7193	30-Oct-13	103013-002.SSF	332096.165	888
722201.929	4294347.065	7436	30-Oct-13	103013-002.SSF	332097.3051	889
722202.125	4294346.931	7753	30-Oct-13	103013-002.SSF	332098.131	890
722202.599	4294346.935	8051	30-Oct-13	103013-002.SSF	332099.229	891
722203.212	4294346.688	7701	30-Oct-13	103013-002.SSF	332100.301	892
722203.532	4294346.074	8224	30-Oct-13	103013-002.SSF	332101.34	893

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722203.957	4294345.564	8353	30-Oct-13	103013-002.SSF	332102.225	894
722204.294	4294345.258	8389	30-Oct-13	103013-002.SSF	332103.308	895
722204.617	4294345.1	7553	30-Oct-13	103013-002.SSF	332104.235	896
722205.023	4294344.808	7601	30-Oct-13	103013-002.SSF	332105.264	897
722205.275	4294344.446	7860	30-Oct-13	103013-002.SSF	332106.298	898
722205.204	4294344.006	7886	30-Oct-13	103013-002.SSF	332107.254	899
722204.868	4294343.728	7833	30-Oct-13	103013-002.SSF	332108.191	900
722204.64	4294343.591	7511	30-Oct-13	103013-002.SSF	332109.2629	901
722204.545	4294343.49	7667	30-Oct-13	103013-002.SSF	332110.191	902
722204.41	4294343.347	7583	30-Oct-13	103013-002.SSF	332111.2	903
722204.33	4294343.249	7648	30-Oct-13	103013-002.SSF	332112.151	904
722204.373	4294343.211	7512	30-Oct-13	103013-002.SSF	332113.238	905
722204.339	4294343.166	7593	30-Oct-13	103013-002.SSF	332114.1639	906
722204.222	4294343.114	7848	30-Oct-13	103013-002.SSF	332115.322	907
722204.167	4294343.056	7249	30-Oct-13	103013-002.SSF	332116.228	908
722204.149	4294343.01	7415	30-Oct-13	103013-002.SSF	332117.344	909
722204.196	4294342.995	7628	30-Oct-13	103013-002.SSF	332118.149	910
722204.478	4294343.093	8401	30-Oct-13	103013-002.SSF	332119.27	911
722204.255	4294343.252	7995	30-Oct-13	103013-002.SSF	332120.187	912
722203.583	4294343.718	7565	30-Oct-13	103013-002.SSF	332121.321	913
722203.052	4294343.722	7743	30-Oct-13	103013-002.SSF	332122.1949	914
722202.737	4294343.947	7490	30-Oct-13	103013-002.SSF	332123.291	915
722202.574	4294344.185	8180	30-Oct-13	103013-002.SSF	332124.231	916
722202.636	4294344.126	7931	30-Oct-13	103013-002.SSF	332125.312	917
722202.81	4294343.803	8346	30-Oct-13	103013-002.SSF	332126.181	918
722202.926	4294343.561	8377	30-Oct-13	103013-002.SSF	332127.277	919
722202.905	4294343.537	8079	30-Oct-13	103013-002.SSF	332128.2271	920
722203.027	4294343.816	7657	30-Oct-13	103013-002.SSF	332129.297	921
722203.086	4294344.033	7682	30-Oct-13	103013-002.SSF	332130.192	922
722203.089	4294344.031	7816	30-Oct-13	103013-002.SSF	332131.262	923
722203.061	4294343.956	8079	30-Oct-13	103013-002.SSF	332132.3	924
722203.069	4294343.896	8519	30-Oct-13	103013-002.SSF	332133.29	925
722203.095	4294343.852	8444	30-Oct-13	103013-002.SSF	332134.27	926
722203.093	4294343.775	8027	30-Oct-13	103013-002.SSF	332135.1801	927
722203.068	4294343.589	8093	30-Oct-13	103013-002.SSF	332136.214	928
722203.074	4294343.538	8527	30-Oct-13	103013-002.SSF	332137.296	929
722203.027	4294343.603	8666	30-Oct-13	103013-002.SSF	332138.171	930
722203.017	4294343.708	8265	30-Oct-13	103013-002.SSF	332139.293	931
722203.04	4294343.934	8451	30-Oct-13	103013-002.SSF	332140.238	932
722203.18	4294344.252	7911	30-Oct-13	103013-002.SSF	332141.244	933
722203.673	4294344.611	7667	30-Oct-13	103013-002.SSF	332142.269	934
722204.288	4294345.024	7973	30-Oct-13	103013-002.SSF	332143.224	935
722204.745	4294345.068	7440	30-Oct-13	103013-002.SSF	332144.228	936
722204.704	4294344.9	7350	30-Oct-13	103013-002.SSF	332145.1851	937
722204.745	4294344.913	7081	30-Oct-13	103013-002.SSF	332146.1899	938
722204.898	4294344.898	7268	30-Oct-13	103013-002.SSF	332147.1851	939
722204.9	4294344.874	7508	30-Oct-13	103013-002.SSF	332148.168	940

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722204.812	4294344.932	7388	30-Oct-13	103013-002.SSF	332149.215	941
722204.813	4294345.112	7441	30-Oct-13	103013-002.SSF	332150.184	942
722205.078	4294345.497	7418	30-Oct-13	103013-002.SSF	332151.2729	943
722205.506	4294345.775	7637	30-Oct-13	103013-002.SSF	332152.114	944
722206.003	4294346.023	7558	30-Oct-13	103013-002.SSF	332153.158	945
722206.207	4294346.051	7611	30-Oct-13	103013-002.SSF	332154.125	946
722206.242	4294346.079	7439	30-Oct-13	103013-002.SSF	332155.183	947
722206.134	4294346.183	7462	30-Oct-13	103013-002.SSF	332156.146	948
722206.162	4294346.339	7204	30-Oct-13	103013-002.SSF	332157.212	949
722206.672	4294346.248	7000	30-Oct-13	103013-002.SSF	332158.152	950
722206.819	4294346.548	7005	30-Oct-13	103013-002.SSF	332159.297	951
722206.773	4294346.873	7090	30-Oct-13	103013-002.SSF	332160.272	952
722206.625	4294346.867	7161	30-Oct-13	103013-002.SSF	332161.303	953
722206.501	4294346.786	7418	30-Oct-13	103013-002.SSF	332162.196	954
722206.615	4294346.799	7952	30-Oct-13	103013-002.SSF	332163.272	955
722206.737	4294346.966	7736	30-Oct-13	103013-002.SSF	332164.1689	956
722206.578	4294346.861	7524	30-Oct-13	103013-002.SSF	332165.306	957
722206.537	4294346.839	6962	30-Oct-13	103013-002.SSF	332166.259	958
722206.553	4294346.906	7268	30-Oct-13	103013-002.SSF	332167.166	959
722206.78	4294347.269	7126	30-Oct-13	103013-002.SSF	332168.144	960
722207.73	4294347.658	7278	30-Oct-13	103013-002.SSF	332169.266	961
722208.415	4294347.916	7686	30-Oct-13	103013-002.SSF	332170.209	962
722208.639	4294348.142	7406	30-Oct-13	103013-002.SSF	332171.277	963
722208.788	4294348.314	6798	30-Oct-13	103013-002.SSF	332172.137	964
722208.922	4294348.662	7304	30-Oct-13	103013-002.SSF	332173.3	965
722208.743	4294348.942	7761	30-Oct-13	103013-002.SSF	332174.1219	966
722209.154	4294348.958	7740	30-Oct-13	103013-002.SSF	332175.359	967
722209.618	4294348.961	7594	30-Oct-13	103013-002.SSF	332176.282	968
722209.933	4294349.08	8156	30-Oct-13	103013-002.SSF	332177.192	969
722210.354	4294349.258	7273	30-Oct-13	103013-002.SSF	332178.2111	970
722210.821	4294349.489	7038	30-Oct-13	103013-002.SSF	332179.312	971
722211.087	4294349.557	7611	30-Oct-13	103013-002.SSF	332180.233	972
722211.446	4294349.622	8031	30-Oct-13	103013-002.SSF	332181.288	973
722211.667	4294349.68	8057	30-Oct-13	103013-002.SSF	332182.167	974
722211.978	4294349.714	8110	30-Oct-13	103013-002.SSF	332183.204	975
722212.321	4294349.563	8214	30-Oct-13	103013-002.SSF	332184.16	976
722212.732	4294349.36	7695	30-Oct-13	103013-002.SSF	332185.229	977
722213.011	4294349.276	7951	30-Oct-13	103013-002.SSF	332186.2	978
722213.12	4294349.353	8170	30-Oct-13	103013-002.SSF	332187.246	979
722213.088	4294349.466	8473	30-Oct-13	103013-002.SSF	332188.1	980
722212.898	4294349.708	8358	30-Oct-13	103013-002.SSF	332189.194	981
722212.289	4294349.662	7326	30-Oct-13	103013-002.SSF	332190.249	982
722211.532	4294349.951	7931	30-Oct-13	103013-002.SSF	332191.193	983
722210.815	4294350.376	7716	30-Oct-13	103013-002.SSF	332192.142	984
722210.551	4294350.783	7190	30-Oct-13	103013-002.SSF	332193.204	985
722210.629	4294350.746	7554	30-Oct-13	103013-002.SSF	332194.15	986
722210.117	4294350.599	8007	30-Oct-13	103013-002.SSF	332195.192	987

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722209.53	4294350.533	8246	30-Oct-13	103013-002.SSF	332196.152	988
722209.028	4294350.498	7743	30-Oct-13	103013-002.SSF	332197.212	989
722208.887	4294350.216	7288	30-Oct-13	103013-002.SSF	332198.172	990
722208.641	4294350.198	7452	30-Oct-13	103013-002.SSF	332199.2111	991
722208.487	4294350.209	7409	30-Oct-13	103013-002.SSF	332200.1801	992
722208.364	4294350.244	7595	30-Oct-13	103013-002.SSF	332201.306	993
722208.232	4294350.402	7459	30-Oct-13	103013-002.SSF	332202.24	994
722208.297	4294350.469	7766	30-Oct-13	103013-002.SSF	332203.302	995
722208.335	4294350.398	7451	30-Oct-13	103013-002.SSF	332204.166	996
722208.217	4294350.275	6958	30-Oct-13	103013-002.SSF	332205.3051	997
722207.949	4294350.194	7476	30-Oct-13	103013-002.SSF	332206.17	998
722207.484	4294350.112	6950	30-Oct-13	103013-002.SSF	332207.261	999
722207.269	4294349.943	7367	30-Oct-13	103013-002.SSF	332208.115	1000
722206.994	4294349.664	7279	30-Oct-13	103013-002.SSF	332209.228	1001
722206.568	4294349.354	7379	30-Oct-13	103013-002.SSF	332210.186	1002
722206.183	4294349.028	7203	30-Oct-13	103013-002.SSF	332211.2531	1003
722205.976	4294348.893	7532	30-Oct-13	103013-002.SSF	332212.186	1004
722205.651	4294348.65	7559	30-Oct-13	103013-002.SSF	332213.233	1005
722205.435	4294348.618	8122	30-Oct-13	103013-002.SSF	332214.251	1006
722205.379	4294348.76	7396	30-Oct-13	103013-002.SSF	332215.139	1007
722205.354	4294348.948	6942	30-Oct-13	103013-002.SSF	332216.085	1008
722205.072	4294349.228	6792	30-Oct-13	103013-002.SSF	332217.183	1009
722204.668	4294349.323	6918	30-Oct-13	103013-002.SSF	332218.1331	1010
722204.456	4294349.457	6981	30-Oct-13	103013-002.SSF	332219.213	1011
722204.399	4294349.461	7174	30-Oct-13	103013-002.SSF	332220.228	1012
722204.31	4294349.42	7418	30-Oct-13	103013-002.SSF	332221.261	1013
722204.134	4294349.118	7465	30-Oct-13	103013-002.SSF	332222.109	1014
722204.395	4294349.108	7731	30-Oct-13	103013-002.SSF	332223.233	1015
722204.476	4294349.209	7476	30-Oct-13	103013-002.SSF	332224.177	1016
722204.229	4294349.296	7603	30-Oct-13	103013-002.SSF	332225.17	1017
722204.061	4294349.336	7681	30-Oct-13	103013-002.SSF	332226.162	1018
722203.52	4294349.469	7808	30-Oct-13	103013-002.SSF	332227.176	1019
722202.875	4294349.425	8142	30-Oct-13	103013-002.SSF	332228.0959	1020
722202.163	4294349.134	7482	30-Oct-13	103013-002.SSF	332229.246	1021
722201.513	4294349.105	7741	30-Oct-13	103013-002.SSF	332230.203	1022
722200.889	4294349.059	7774	30-Oct-13	103013-002.SSF	332231.2531	1023
722200.288	4294349.099	7470	30-Oct-13	103013-002.SSF	332232.088	1024
722199.677	4294348.975	7757	30-Oct-13	103013-002.SSF	332233.24	1025
722199.189	4294348.839	7753	30-Oct-13	103013-002.SSF	332234.213	1026
722198.851	4294348.721	7563	30-Oct-13	103013-002.SSF	332235.287	1027
722198.54	4294348.809	7584	30-Oct-13	103013-002.SSF	332236.196	1028
722198.22	4294348.806	7806	30-Oct-13	103013-002.SSF	332237.1899	1029
722197.631	4294348.75	7721	30-Oct-13	103013-002.SSF	332238.244	1030
722197.616	4294348.845	7568	30-Oct-13	103013-002.SSF	332239.276	1031
722197.947	4294348.766	8164	30-Oct-13	103013-002.SSF	332240.26	1032
722198.341	4294348.809	7892	30-Oct-13	103013-002.SSF	332241.192	1033
722198.567	4294348.834	8182	30-Oct-13	103013-002.SSF	332242.158	1034

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722198.818	4294348.774	7932	30-Oct-13	103013-002.SSF	332243.214	1035
722199.045	4294348.806	7304	30-Oct-13	103013-002.SSF	332244.1479	1036
722199.666	4294348.514	7521	30-Oct-13	103013-002.SSF	332245.285	1037
722200.239	4294348.47	7568	30-Oct-13	103013-002.SSF	332246.168	1038
722201.06	4294348.041	8029	30-Oct-13	103013-002.SSF	332247.329	1039
722201.721	4294347.847	7246	30-Oct-13	103013-002.SSF	332248.238	1040
722202.188	4294347.623	7203	30-Oct-13	103013-002.SSF	332249.29	1041
722202.552	4294347.509	7382	30-Oct-13	103013-002.SSF	332250.019	1042
722202.699	4294347.534	7497	30-Oct-13	103013-002.SSF	332251.1801	1043
722202.559	4294347.424	8102	30-Oct-13	103013-002.SSF	332252.027	1044
722202.511	4294346.581	8150	30-Oct-13	103013-002.SSF	332253.22	1045
722202.705	4294346.259	7884	30-Oct-13	103013-002.SSF	332254.155	1046
722202.99	4294346.229	7645	30-Oct-13	103013-002.SSF	332255.239	1047
722203.298	4294346.161	7105	30-Oct-13	103013-002.SSF	332256.175	1048
722203.487	4294346.128	7484	30-Oct-13	103013-002.SSF	332257.306	1049
722203.228	4294346.236	7367	30-Oct-13	103013-002.SSF	332258.147	1050
722202.892	4294345.985	7241	30-Oct-13	103013-002.SSF	332259.299	1051
722202.827	4294345.97	7185	30-Oct-13	103013-002.SSF	332260.056	1052
722203.202	4294345.997	7979	30-Oct-13	103013-002.SSF	332261.271	1053
722203.587	4294345.811	8298	30-Oct-13	103013-002.SSF	332262.097	1054
722203.836	4294345.75	8748	30-Oct-13	103013-002.SSF	332263.1639	1055
722203.763	4294345.679	8228	30-Oct-13	103013-002.SSF	332264.0439	1056
722203.409	4294345.596	7958	30-Oct-13	103013-002.SSF	332265.256	1057
722202.806	4294345.621	8391	30-Oct-13	103013-002.SSF	332266.147	1058
722202.45	4294345.622	7930	30-Oct-13	103013-002.SSF	332267.217	1059
722202.177	4294345.757	8270	30-Oct-13	103013-002.SSF	332268.092	1060
722201.662	4294345.992	7952	30-Oct-13	103013-002.SSF	332269.252	1061
722201.211	4294346.297	7488	30-Oct-13	103013-002.SSF	332270.2271	1062
722200.719	4294346.655	7902	30-Oct-13	103013-002.SSF	332271.261	1063
722200.428	4294346.863	7812	30-Oct-13	103013-002.SSF	332272.171	1064
722200.058	4294346.927	8009	30-Oct-13	103013-002.SSF	332273.188	1065
722199.512	4294347.168	7715	30-Oct-13	103013-002.SSF	332274.204	1066
722198.924	4294347.239	7572	30-Oct-13	103013-002.SSF	332275.264	1067
722198.608	4294347.257	7514	30-Oct-13	103013-002.SSF	332276.115	1068
722198.259	4294347.426	7751	30-Oct-13	103013-002.SSF	332277.167	1069
722197.917	4294347.726	8088	30-Oct-13	103013-002.SSF	332278.14	1070
722197.536	4294347.904	8097	30-Oct-13	103013-002.SSF	332279.316	1071
722197.225	4294348.004	7824	30-Oct-13	103013-002.SSF	332280.092	1072
722196.961	4294348.12	7716	30-Oct-13	103013-002.SSF	332281.182	1073
722196.715	4294348.336	7693	30-Oct-13	103013-002.SSF	332281.998	1074
722196.361	4294348.612	7109	30-Oct-13	103013-002.SSF	332283.166	1075
722196.075	4294348.913	7066	30-Oct-13	103013-002.SSF	332284.079	1076
722195.806	4294349.051	7657	30-Oct-13	103013-002.SSF	332285.162	1077
722195.724	4294349.191	7232	30-Oct-13	103013-002.SSF	332286.094	1078
722195.805	4294349.386	7833	30-Oct-13	103013-002.SSF	332287.288	1079
722196.144	4294349.64	7398	30-Oct-13	103013-002.SSF	332288.101	1080
722196.677	4294349.614	7049	30-Oct-13	103013-002.SSF	332289.256	1081

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722196.974	4294349.488	7265	30-Oct-13	103013-002.SSF	332290.14	1082
722197.556	4294349.442	7664	30-Oct-13	103013-002.SSF	332291.171	1083
722198.354	4294349.48	7408	30-Oct-13	103013-002.SSF	332292.131	1084
722198.996	4294349.493	7339	30-Oct-13	103013-002.SSF	332293.2061	1085
722199.478	4294349.537	7616	30-Oct-13	103013-002.SSF	332294.0861	1086
722200.047	4294349.466	8161	30-Oct-13	103013-002.SSF	332295.167	1087
722200.72	4294349.543	7793	30-Oct-13	103013-002.SSF	332296.192	1088
722201.19	4294349.596	7661	30-Oct-13	103013-002.SSF	332297.246	1089
722201.67	4294349.699	7786	30-Oct-13	103013-002.SSF	332298.097	1090
722202.014	4294349.626	7456	30-Oct-13	103013-002.SSF	332299.156	1091
722202.328	4294349.539	6924	30-Oct-13	103013-002.SSF	332300.186	1092
722202.47	4294349.488	7232	30-Oct-13	103013-002.SSF	332301.267	1093
722202.484	4294349.637	6895	30-Oct-13	103013-002.SSF	332302.119	1094
722202.694	4294349.837	6803	30-Oct-13	103013-002.SSF	332303.201	1095
722202.998	4294349.563	7367	30-Oct-13	103013-002.SSF	332304.181	1096
722203.283	4294349.393	7489	30-Oct-13	103013-002.SSF	332305.235	1097
722203.513	4294349.502	8082	30-Oct-13	103013-002.SSF	332306.118	1098
722204.055	4294349.768	7726	30-Oct-13	103013-002.SSF	332307.2	1099
722204.637	4294350.074	7376	30-Oct-13	103013-002.SSF	332308.215	1100
722205.398	4294350.416	7254	30-Oct-13	103013-002.SSF	332309.209	1101
722205.756	4294350.656	7170	30-Oct-13	103013-002.SSF	332310.142	1102
722205.729	4294351.012	7078	30-Oct-13	103013-002.SSF	332311.295	1103
722205.736	4294351.061	7064	30-Oct-13	103013-002.SSF	332312.106	1104
722205.834	4294350.951	7258	30-Oct-13	103013-002.SSF	332313.1801	1105
722206.219	4294351.059	7780	30-Oct-13	103013-002.SSF	332314.197	1106
722206.478	4294351.271	7481	30-Oct-13	103013-002.SSF	332315.188	1107
722206.865	4294351.442	7073	30-Oct-13	103013-002.SSF	332316.074	1108
722207.278	4294351.708	6311	30-Oct-13	103013-002.SSF	332317.212	1109
722207.571	4294351.953	6692	30-Oct-13	103013-002.SSF	332318.0601	1110
722207.851	4294352.424	7042	30-Oct-13	103013-002.SSF	332319.193	1111
722208.149	4294353.174	7426	30-Oct-13	103013-002.SSF	332320.22	1112
722208.479	4294353.798	7147	30-Oct-13	103013-002.SSF	332321.193	1113
722208.261	4294353.937	6840	30-Oct-13	103013-002.SSF	332322.1851	1114
722207.75	4294353.992	6802	30-Oct-13	103013-002.SSF	332323.304	1115
722207.541	4294353.856	7141	30-Oct-13	103013-002.SSF	332324.115	1116
722207.373	4294353.884	6852	30-Oct-13	103013-002.SSF	332325.178	1117
722207.197	4294353.721	6562	30-Oct-13	103013-002.SSF	332326.147	1118
722207.007	4294353.583	6743	30-Oct-13	103013-002.SSF	332327.184	1119
722206.794	4294353.647	6823	30-Oct-13	103013-002.SSF	332328.1899	1120
722206.586	4294353.829	7213	30-Oct-13	103013-002.SSF	332329.213	1121
722206.412	4294353.955	7125	30-Oct-13	103013-002.SSF	332330.1479	1122
722206.275	4294354.264	7240	30-Oct-13	103013-002.SSF	332331.236	1123
722206.431	4294354.483	6892	30-Oct-13	103013-002.SSF	332332.064	1124
722206.975	4294354.451	6404	30-Oct-13	103013-002.SSF	332333.153	1125
722207.612	4294354.342	7045	30-Oct-13	103013-002.SSF	332334.155	1126
722208.207	4294354.244	6835	30-Oct-13	103013-002.SSF	332335.1801	1127
722208.741	4294354.022	6919	30-Oct-13	103013-002.SSF	332336.129	1128

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722209.513	4294353.973	6750	30-Oct-13	103013-002.SSF	332337.21	1129
722210.066	4294354.039	6991	30-Oct-13	103013-002.SSF	332338.186	1130
722210.125	4294354.013	6625	30-Oct-13	103013-002.SSF	332339.246	1131
722210.116	4294353.884	6441	30-Oct-13	103013-002.SSF	332340.157	1132
722210.11	4294353.878	7036	30-Oct-13	103013-002.SSF	332341.2159	1133
722210.081	4294353.984	6432	30-Oct-13	103013-002.SSF	332342.174	1134
722210.249	4294354.019	6738	30-Oct-13	103013-002.SSF	332343.231	1135
722210.626	4294354.04	6873	30-Oct-13	103013-002.SSF	332344.042	1136
722211.709	4294354.029	6978	30-Oct-13	103013-002.SSF	332345.2371	1137
722212.579	4294354.174	7000	30-Oct-13	103013-002.SSF	332346.178	1138
722213.819	4294354.506	7027	30-Oct-13	103013-002.SSF	332347.2461	1139
722214.922	4294354.645	6698	30-Oct-13	103013-002.SSF	332348.2041	1140
722216.055	4294354.64	6197	30-Oct-13	103013-002.SSF	332349.262	1141
722217.062	4294354.681	5938	30-Oct-13	103013-002.SSF	332350.2361	1142
722218.083	4294354.887	6250	30-Oct-13	103013-002.SSF	332351.2119	1143
722219.334	4294355.21	6891	30-Oct-13	103013-002.SSF	332352.2229	1144
722220.788	4294355.47	6388	30-Oct-13	103013-002.SSF	332353.2271	1145
722221.98	4294355.679	6271	30-Oct-13	103013-002.SSF	332354.1331	1146
722223.108	4294355.802	5815	30-Oct-13	103013-002.SSF	332355.157	1147
722224.283	4294355.887	5911	30-Oct-13	103013-002.SSF	332356.1331	1148
722225.677	4294355.923	5867	30-Oct-13	103013-002.SSF	332357.2009	1149
722226.944	4294355.841	5692	30-Oct-13	103013-002.SSF	332358.2009	1150
722228.074	4294355.852	5714	30-Oct-13	103013-002.SSF	332359.239	1151
722228.82	4294355.957	6027	30-Oct-13	103013-002.SSF	332360.063	1152
722230.104	4294355.731	5647	30-Oct-13	103013-002.SSF	332361.2639	1153
722231.084	4294355.249	5284	30-Oct-13	103013-002.SSF	332362.1299	1154
722232.137	4294354.428	5425	30-Oct-13	103013-002.SSF	332363.2539	1155
722232.765	4294353.786	5579	30-Oct-13	103013-002.SSF	332364.074	1156
722233.192	4294352.743	6190	30-Oct-13	103013-002.SSF	332365.209	1157
722233.506	4294351.759	6129	30-Oct-13	103013-002.SSF	332366.095	1158
722233.948	4294350.639	6193	30-Oct-13	103013-002.SSF	332367.198	1159
722234.235	4294349.738	6251	30-Oct-13	103013-002.SSF	332368.043	1160
722234.319	4294348.724	5578	30-Oct-13	103013-002.SSF	332369.2041	1161
722234.325	4294348.079	5433	30-Oct-13	103013-002.SSF	332370.1399	1162
722234.417	4294347.267	5523	30-Oct-13	103013-002.SSF	332371.271	1163
722234.428	4294346.79	5544	30-Oct-13	103013-002.SSF	332372.155	1164
722234.517	4294346.404	5511	30-Oct-13	103013-002.SSF	332373.198	1165
722234.579	4294346.169	4900	30-Oct-13	103013-002.SSF	332374.137	1166
722234.642	4294345.716	5568	30-Oct-13	103013-002.SSF	332375.25	1167
722234.624	4294345.388	5585	30-Oct-13	103013-002.SSF	332376.145	1168
722234.685	4294344.72	5354	30-Oct-13	103013-002.SSF	332377.2009	1169
722234.785	4294344.28	5194	30-Oct-13	103013-002.SSF	332378.0701	1170
722234.8	4294343.764	4916	30-Oct-13	103013-002.SSF	332379.231	1171
722234.759	4294343.26	4888	30-Oct-13	103013-002.SSF	332380.1851	1172
722234.646	4294342.63	5457	30-Oct-13	103013-002.SSF	332381.2141	1173
722234.631	4294341.871	5304	30-Oct-13	103013-002.SSF	332382.115	1174
722234.502	4294340.796	5309	30-Oct-13	103013-002.SSF	332383.248	1175

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722234.525	4294339.995	5168	30-Oct-13	103013-002.SSF	332384.2	1176
722234.573	4294339.195	5337	30-Oct-13	103013-002.SSF	332385.199	1177
722234.469	4294338.379	5417	30-Oct-13	103013-002.SSF	332386.0681	1178
722234.274	4294337.22	5484	30-Oct-13	103013-002.SSF	332387.1941	1179
722234.162	4294336.46	5845	30-Oct-13	103013-002.SSF	332388.1389	1180
722234.125	4294335.878	5193	30-Oct-13	103013-002.SSF	332389.1089	1181
722234.159	4294334.924	5373	30-Oct-13	103013-002.SSF	332390.093	1182
722234.201	4294333.843	5317	30-Oct-13	103013-002.SSF	332391.198	1183
722234.174	4294333.113	5293	30-Oct-13	103013-002.SSF	332392.019	1184
722234.245	4294332.138	5205	30-Oct-13	103013-002.SSF	332393.1799	1185
722234.446	4294331.506	5238	30-Oct-13	103013-002.SSF	332394.062	1186
722234.855	4294330.63	5811	30-Oct-13	103013-002.SSF	332395.199	1187
722235.547	4294329.775	5834	30-Oct-13	103013-002.SSF	332396.176	1188
722236.345	4294328.892	5816	30-Oct-13	103013-002.SSF	332397.1951	1189
722236.624	4294328.167	5574	30-Oct-13	103013-002.SSF	332398.1121	1190
722236.851	4294327.22	5588	30-Oct-13	103013-002.SSF	332399.135	1191
722237.236	4294326.165	5385	30-Oct-13	103013-002.SSF	332400.1021	1192
722237.97	4294325.155	5279	30-Oct-13	103013-002.SSF	332401.157	1193
722238.524	4294324.521	5339	30-Oct-13	103013-002.SSF	332402.031	1194
722238.432	4294323.403	5253	30-Oct-13	103013-002.SSF	332403.1809	1195
722238.121	4294322.603	5145	30-Oct-13	103013-002.SSF	332404.135	1196
722237.996	4294321.598	5301	30-Oct-13	103013-002.SSF	332405.186	1197
722237.958	4294320.582	5007	30-Oct-13	103013-002.SSF	332406.033	1198
722237.737	4294319.606	5531	30-Oct-13	103013-002.SSF	332407.197	1199
722237.239	4294319.103	5526	30-Oct-13	103013-002.SSF	332408.0859	1200
722236.528	4294318.9	4916	30-Oct-13	103013-002.SSF	332409.1411	1201
722236.162	4294318.855	5045	30-Oct-13	103013-002.SSF	332410.126	1202
722236.2	4294318.824	5335	30-Oct-13	103013-002.SSF	332411.21	1203
722236.368	4294318.754	5708	30-Oct-13	103013-002.SSF	332412.1289	1204
722236.606	4294318.736	5618	30-Oct-13	103013-002.SSF	332413.1919	1205
722236.754	4294318.713	5530	30-Oct-13	103013-002.SSF	332414.156	1206
722236.728	4294318.701	5811	30-Oct-13	103013-002.SSF	332415.261	1207
722236.61	4294318.71	5511	30-Oct-13	103013-002.SSF	332416.1941	1208
722236.574	4294318.759	5612	30-Oct-13	103013-002.SSF	332417.1731	1209
722236.626	4294318.989	5587	30-Oct-13	103013-002.SSF	332418.105	1210
722236.563	4294319.14	5722	30-Oct-13	103013-002.SSF	332419.1909	1211
722236.314	4294319.159	5334	30-Oct-13	103013-002.SSF	332420.1379	1212
722235.886	4294319.1	5385	30-Oct-13	103013-002.SSF	332421.168	1213
722235.535	4294318.7	5519	30-Oct-13	103013-002.SSF	332422.1931	1214
722235.238	4294318.219	5774	30-Oct-13	103013-002.SSF	332423.156	1215
722235.203	4294318.138	6098	30-Oct-13	103013-002.SSF	332424.0869	1216
722235.183	4294318.089	5552	30-Oct-13	103013-002.SSF	332425.1621	1217
722235.18	4294317.88	6138	30-Oct-13	103013-002.SSF	332426.02	1218
722234.393	4294317.995	5658	30-Oct-13	103013-002.SSF	332427.1631	1219
722234.109	4294317.905	5567	30-Oct-13	103013-002.SSF	332428.116	1220
722233.835	4294317.585	5486	30-Oct-13	103013-002.SSF	332429.157	1221
722233.89	4294317.45	5381	30-Oct-13	103013-002.SSF	332430.124	1222

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722233.771	4294317.338	5209	30-Oct-13	103013-002.SSF	332431.1479	1223
722233.657	4294317.188	5600	30-Oct-13	103013-002.SSF	332432.0049	1224
722233.443	4294316.733	5670	30-Oct-13	103013-002.SSF	332433.1531	1225
722233.613	4294316.175	5867	30-Oct-13	103013-002.SSF	332434.0911	1226
722233.981	4294315.334	5752	30-Oct-13	103013-002.SSF	332435.1909	1227
722234.069	4294314.747	5756	30-Oct-13	103013-002.SSF	332436.1331	1228
722234.037	4294314.587	5570	30-Oct-13	103013-002.SSF	332437.1931	1229
722234.237	4294314.834	5735	30-Oct-13	103013-002.SSF	332438.145	1230
722234.611	4294314.907	5806	30-Oct-13	103013-002.SSF	332439.259	1231
722234.838	4294314.907	6071	30-Oct-13	103013-002.SSF	332440.124	1232
722234.95	4294314.868	5687	30-Oct-13	103013-002.SSF	332441.1689	1233
722235.085	4294314.864	5899	30-Oct-13	103013-002.SSF	332442.0669	1234
722235.185	4294314.803	5726	30-Oct-13	103013-002.SSF	332443.2539	1235
722235.261	4294314.794	6273	30-Oct-13	103013-002.SSF	332444.0991	1236
722235.347	4294314.762	5943	30-Oct-13	103013-002.SSF	332445.1389	1237
722235.379	4294314.71	5668	30-Oct-13	103013-002.SSF	332446.094	1238
722235.447	4294314.719	5708	30-Oct-13	103013-002.SSF	332447.229	1239
722235.444	4294314.705	6241	30-Oct-13	103013-002.SSF	332448.031	1240
722235.452	4294314.707	5790	30-Oct-13	103013-002.SSF	332449.2141	1241
722235.476	4294314.715	5387	30-Oct-13	103013-002.SSF	332450.0601	1242
722235.555	4294314.754	5872	30-Oct-13	103013-002.SSF	332451.189	1243
722235.608	4294314.745	5403	30-Oct-13	103013-002.SSF	332452.0759	1244
722235.638	4294314.761	5694	30-Oct-13	103013-002.SSF	332453.1589	1245
722235.725	4294314.771	5483	30-Oct-13	103013-002.SSF	332454.0801	1246
722235.734	4294314.781	5626	30-Oct-13	103013-002.SSF	332455.178	1247
722235.913	4294314.786	5565	30-Oct-13	103013-002.SSF	332456.2351	1248
722236.093	4294314.726	5770	30-Oct-13	103013-002.SSF	332457.125	1249
722236.269	4294314.676	5495	30-Oct-13	103013-002.SSF	332458.0659	1250
722236.413	4294314.646	6114	30-Oct-13	103013-002.SSF	332459.176	1251
722236.497	4294314.632	6221	30-Oct-13	103013-002.SSF	332460.0129	1252
722236.607	4294314.595	6199	30-Oct-13	103013-002.SSF	332461.146	1253
722236.692	4294314.581	6307	30-Oct-13	103013-002.SSF	332461.988	1254
722236.769	4294314.55	6210	30-Oct-13	103013-002.SSF	332463.134	1255
722236.801	4294314.529	6770	30-Oct-13	103013-002.SSF	332463.9651	1256
722236.866	4294314.537	6576	30-Oct-13	103013-002.SSF	332465.189	1257
722236.894	4294314.533	6354	30-Oct-13	103013-002.SSF	332466	1258
722236.959	4294314.551	5891	30-Oct-13	103013-002.SSF	332467.1599	1259
722236.965	4294314.554	5991	30-Oct-13	103013-002.SSF	332468.064	1260
722237.027	4294314.593	6047	30-Oct-13	103013-002.SSF	332469.1321	1261
722237.044	4294314.704	6056	30-Oct-13	103013-002.SSF	332470.0439	1262
722237.001	4294314.701	6219	30-Oct-13	103013-002.SSF	332471.24	1263
722236.98	4294314.719	5816	30-Oct-13	103013-002.SSF	332472.0801	1264
722236.94	4294314.742	6061	30-Oct-13	103013-002.SSF	332473.158	1265
722236.923	4294314.789	5757	30-Oct-13	103013-002.SSF	332474.1011	1266
722236.894	4294314.833	5901	30-Oct-13	103013-002.SSF	332475.1431	1267
722236.846	4294314.839	6296	30-Oct-13	103013-002.SSF	332476.0691	1268
722236.816	4294314.904	6077	30-Oct-13	103013-002.SSF	332477.198	1269

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722236.791	4294314.958	6133	30-Oct-13	103013-002.SSF	332478.051	1270
722236.765	4294315.012	6105	30-Oct-13	103013-002.SSF	332479.1189	1271
722236.73	4294315.048	5781	30-Oct-13	103013-002.SSF	332480.188	1272
722236.697	4294315.072	6072	30-Oct-13	103013-002.SSF	332481.1541	1273
722236.679	4294315.117	6055	30-Oct-13	103013-002.SSF	332482.105	1274
722236.632	4294315.132	6451	30-Oct-13	103013-002.SSF	332483.1799	1275
722236.59	4294315.145	6591	30-Oct-13	103013-002.SSF	332484.0581	1276
722236.509	4294315.16	6437	30-Oct-13	103013-002.SSF	332485.198	1277
722236.461	4294315.169	5983	30-Oct-13	103013-002.SSF	332486.073	1278
722236.448	4294315.234	5945	30-Oct-13	103013-002.SSF	332487.188	1279
722236.424	4294315.262	6149	30-Oct-13	103013-002.SSF	332488.0701	1280
722236.401	4294315.308	6661	30-Oct-13	103013-002.SSF	332489.1941	1281
722236.386	4294315.346	6736	30-Oct-13	103013-002.SSF	332490.125	1282
722236.355	4294315.383	6462	30-Oct-13	103013-002.SSF	332491.2029	1283
722236.329	4294315.404	6597	30-Oct-13	103013-002.SSF	332492.0681	1284
722236.304	4294315.431	5983	30-Oct-13	103013-002.SSF	332493.22	1285
722236.295	4294315.46	5758	30-Oct-13	103013-002.SSF	332494.0759	1286
722236.276	4294315.459	5766	30-Oct-13	103013-002.SSF	332495.177	1287
722236.266	4294315.46	5696	30-Oct-13	103013-002.SSF	332496.0801	1288
722236.264	4294315.489	5844	30-Oct-13	103013-002.SSF	332497.177	1289
722236.249	4294315.488	6302	30-Oct-13	103013-002.SSF	332498.0869	1290
722236.235	4294315.481	6230	30-Oct-13	103013-002.SSF	332499.2461	1291
722236.232	4294315.473	6136	30-Oct-13	103013-002.SSF	332500.0659	1292
722236.207	4294315.442	6137	30-Oct-13	103013-002.SSF	332501.1831	1293
722236.127	4294315.313	5537	30-Oct-13	103013-002.SSF	332502.0381	1294
722236.117	4294315.313	5949	30-Oct-13	103013-002.SSF	332503.1079	1295
722236.127	4294315.323	6309	30-Oct-13	103013-002.SSF	332504.0281	1296
722236.135	4294315.331	6608	30-Oct-13	103013-002.SSF	332505.123	1297
722236.098	4294315.293	6372	30-Oct-13	103013-002.SSF	332506.095	1298
722236.101	4294315.307	6284	30-Oct-13	103013-002.SSF	332507.1179	1299
722236.05	4294315.244	6280	30-Oct-13	103013-002.SSF	332507.9309	1300
722236.03	4294315.227	6375	30-Oct-13	103013-002.SSF	332509.1121	1301
722236.018	4294315.218	6443	30-Oct-13	103013-002.SSF	332509.926	1302
722236.008	4294315.193	6129	30-Oct-13	103013-002.SSF	332511.1169	1303
722235.989	4294315.127	6455	30-Oct-13	103013-002.SSF	332511.9299	1304
722236.005	4294315.12	6023	30-Oct-13	103013-002.SSF	332513.043	1305
722236.006	4294315.154	6013	30-Oct-13	103013-002.SSF	332513.9829	1306
722236.011	4294315.161	5902	30-Oct-13	103013-002.SSF	332515.1179	1307
722236.006	4294315.15	6665	30-Oct-13	103013-002.SSF	332516.106	1308
722236.031	4294315.168	6599	30-Oct-13	103013-002.SSF	332517.2271	1309
722236.039	4294315.161	6329	30-Oct-13	103013-002.SSF	332518.0349	1310
722236.046	4294315.177	6343	30-Oct-13	103013-002.SSF	332519.073	1311
722236.055	4294315.185	6065	30-Oct-13	103013-002.SSF	332520.0359	1312
722236.027	4294315.181	6464	30-Oct-13	103013-002.SSF	332521.125	1313
722235.964	4294315.064	6141	30-Oct-13	103013-002.SSF	332521.9951	1314
722235.948	4294315.045	6064	30-Oct-13	103013-002.SSF	332523.106	1315
722235.922	4294315.033	5998	30-Oct-13	103013-002.SSF	332524.1599	1316

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722235.875	4294314.971	6314	30-Oct-13	103013-002.SSF	332525.2461	1317
722235.845	4294314.933	5936	30-Oct-13	103013-002.SSF	332526.073	1318
722235.72	4294314.692	5874	30-Oct-13	103013-002.SSF	332527.168	1319
722235.708	4294314.647	5989	30-Oct-13	103013-002.SSF	332528.1399	1320
722235.691	4294314.569	6054	30-Oct-13	103013-002.SSF	332529.2029	1321
722235.656	4294314.481	6082	30-Oct-13	103013-002.SSF	332530.061	1322
722235.675	4294314.468	6181	30-Oct-13	103013-002.SSF	332531.1841	1323
722235.702	4294314.467	6679	30-Oct-13	103013-002.SSF	332532.0681	1324
722235.723	4294314.412	6577	30-Oct-13	103013-002.SSF	332533.187	1325
722235.712	4294314.38	6362	30-Oct-13	103013-002.SSF	332534.0459	1326
722235.657	4294314.352	6278	30-Oct-13	103013-002.SSF	332535.1189	1327
722235.654	4294314.327	6449	30-Oct-13	103013-002.SSF	332536.1399	1328
722235.671	4294314.286	6440	30-Oct-13	103013-002.SSF	332537.1479	1329
722235.678	4294314.234	6322	30-Oct-13	103013-002.SSF	332538.062	1330
722235.712	4294314.274	5994	30-Oct-13	103013-002.SSF	332539.1641	1331
722235.741	4294314.278	5779	30-Oct-13	103013-002.SSF	332540.0681	1332
722235.776	4294314.336	6078	30-Oct-13	103013-002.SSF	332541.146	1333
722235.777	4294314.381	6704	30-Oct-13	103013-002.SSF	332542.0581	1334
722235.755	4294314.43	6396	30-Oct-13	103013-002.SSF	332543.126	1335
722235.742	4294314.436	6410	30-Oct-13	103013-002.SSF	332544.075	1336
722235.73	4294314.446	6005	30-Oct-13	103013-002.SSF	332545.0659	1337
722235.737	4294314.488	6093	30-Oct-13	103013-002.SSF	332546.0659	1338
722235.702	4294314.47	6450	30-Oct-13	103013-002.SSF	332547.1169	1339
722235.726	4294314.519	6650	30-Oct-13	103013-002.SSF	332548.1211	1340
722235.705	4294314.519	6463	30-Oct-13	103013-002.SSF	332549.1221	1341
722235.699	4294314.544	6898	30-Oct-13	103013-002.SSF	332550.0339	1342
722235.719	4294314.588	6550	30-Oct-13	103013-002.SSF	332551.22	1343
722235.718	4294314.602	6512	30-Oct-13	103013-002.SSF	332552.1121	1344
722235.705	4294314.627	6475	30-Oct-13	103013-002.SSF	332553.249	1345
722235.715	4294314.668	6117	30-Oct-13	103013-002.SSF	332554.051	1346
722235.728	4294314.677	6268	30-Oct-13	103013-002.SSF	332555.1331	1347
722235.705	4294314.654	6151	30-Oct-13	103013-002.SSF	332556.105	1348
722235.7	4294314.625	6677	30-Oct-13	103013-002.SSF	332557.1431	1349
722235.716	4294314.567	6388	30-Oct-13	103013-002.SSF	332558.002	1350
722235.724	4294314.495	6001	30-Oct-13	103013-002.SSF	332559.0581	1351
722235.728	4294314.453	5880	30-Oct-13	103013-002.SSF	332560.0779	1352
722235.733	4294314.417	5745	30-Oct-13	103013-002.SSF	332561.1089	1353
722235.775	4294314.447	5736	30-Oct-13	103013-002.SSF	332562.0681	1354
722235.788	4294314.448	6467	30-Oct-13	103013-002.SSF	332563.208	1355
722235.784	4294314.487	6195	30-Oct-13	103013-002.SSF	332563.9851	1356
722235.796	4294314.581	6124	30-Oct-13	103013-002.SSF	332565.207	1357
722235.796	4294314.627	6115	30-Oct-13	103013-002.SSF	332566.0171	1358
722235.817	4294314.691	6042	30-Oct-13	103013-002.SSF	332567.2361	1359
722235.825	4294314.733	6091	30-Oct-13	103013-002.SSF	332568.074	1360
722235.775	4294314.675	5804	30-Oct-13	103013-002.SSF	332569.209	1361
722235.681	4294314.616	5754	30-Oct-13	103013-002.SSF	332570.0171	1362
722235.608	4294314.531	5532	30-Oct-13	103013-002.SSF	332571.0281	1363

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722235.483	4294314.488	6006	30-Oct-13	103013-002.SSF	332572.042	1364
722235.511	4294314.539	6176	30-Oct-13	103013-002.SSF	332573.0581	1365
722235.314	4294314.503	5971	30-Oct-13	103013-002.SSF	332573.906	1366
722235.182	4294314.546	6336	30-Oct-13	103013-002.SSF	332575.0801	1367
722235.145	4294314.567	6159	30-Oct-13	103013-002.SSF	332576.0249	1368
722235.141	4294314.577	6149	30-Oct-13	103013-002.SSF	332577.0891	1369
722235.096	4294314.468	6309	30-Oct-13	103013-002.SSF	332578.105	1370
722235.222	4294314.303	5761	30-Oct-13	103013-002.SSF	332579.1289	1371
722235.288	4294314.224	5355	30-Oct-13	103013-002.SSF	332579.9441	1372
722235.297	4294314.118	5877	30-Oct-13	103013-002.SSF	332581.0391	1373
722235.272	4294314.03	6201	30-Oct-13	103013-002.SSF	332581.9751	1374
722235.175	4294313.794	6593	30-Oct-13	103013-002.SSF	332583.0139	1375
722235.113	4294313.693	6356	30-Oct-13	103013-002.SSF	332583.9099	1376
722235.02	4294313.571	6095	30-Oct-13	103013-002.SSF	332585.0759	1377
722234.946	4294313.513	6076	30-Oct-13	103013-002.SSF	332586.075	1378
722234.918	4294313.379	5787	30-Oct-13	103013-002.SSF	332587.0791	1379
722234.916	4294313.289	6023	30-Oct-13	103013-002.SSF	332588.1321	1380
722234.908	4294313.222	6223	30-Oct-13	103013-002.SSF	332589.0891	1381
722234.907	4294313.224	5720	30-Oct-13	103013-002.SSF	332590.0759	1382
722234.911	4294313.233	5512	30-Oct-13	103013-002.SSF	332591.071	1383
722234.972	4294313.22	5448	30-Oct-13	103013-002.SSF	332592.042	1384
722234.971	4294313.257	5494	30-Oct-13	103013-002.SSF	332593.0659	1385
722234.971	4294313.322	5183	30-Oct-13	103013-002.SSF	332594.0801	1386
722234.924	4294313.351	5645	30-Oct-13	103013-002.SSF	332595.124	1387
722234.894	4294313.384	5448	30-Oct-13	103013-002.SSF	332596.0249	1388
722234.882	4294313.349	5584	30-Oct-13	103013-002.SSF	332597.063	1389
722234.84	4294313.384	5848	30-Oct-13	103013-002.SSF	332598.0791	1390
722234.821	4294313.385	5960	30-Oct-13	103013-002.SSF	332599.166	1391
722234.77	4294313.358	6075	30-Oct-13	103013-002.SSF	332599.9771	1392
722234.765	4294313.299	6109	30-Oct-13	103013-002.SSF	332601.209	1393
722234.801	4294313.259	6301	30-Oct-13	103013-002.SSF	332602.085	1394
722234.791	4294313.177	6027	30-Oct-13	103013-002.SSF	332603.052	1395
722234.767	4294313.175	6367	30-Oct-13	103013-002.SSF	332604.0581	1396
722234.665	4294313.274	6049	30-Oct-13	103013-002.SSF	332605.197	1397
722234.613	4294313.332	5720	30-Oct-13	103013-002.SSF	332606.0161	1398
722234.541	4294313.427	6180	30-Oct-13	103013-002.SSF	332607.1431	1399
722234.511	4294313.527	5951	30-Oct-13	103013-002.SSF	332608.075	1400
722234.427	4294313.603	5882	30-Oct-13	103013-002.SSF	332609.123	1401
722234.402	4294313.619	5731	30-Oct-13	103013-002.SSF	332610.063	1402
722234.406	4294313.545	6411	30-Oct-13	103013-002.SSF	332611.1021	1403
722234.419	4294313.565	6036	30-Oct-13	103013-002.SSF	332612.156	1404
722234.436	4294313.54	5533	30-Oct-13	103013-002.SSF	332613.075	1405
722234.46	4294313.566	5640	30-Oct-13	103013-002.SSF	332614.0071	1406
722234.445	4294313.602	5542	30-Oct-13	103013-002.SSF	332615.074	1407
722234.433	4294313.625	5442	30-Oct-13	103013-002.SSF	332615.8989	1408
722234.391	4294313.65	6151	30-Oct-13	103013-002.SSF	332617.1179	1409
722234.369	4294313.699	6310	30-Oct-13	103013-002.SSF	332617.9231	1410

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722234.33	4294313.741	6144	30-Oct-13	103013-002.SSF	332619.092	1411
722234.312	4294313.792	5961	30-Oct-13	103013-002.SSF	332619.8989	1412
722234.288	4294313.849	5835	30-Oct-13	103013-002.SSF	332621.019	1413
722234.398	4294313.91	5300	30-Oct-13	103013-002.SSF	332621.9519	1414
722234.407	4294313.935	5216	30-Oct-13	103013-002.SSF	332623.0439	1415
722234.341	4294313.92	5649	30-Oct-13	103013-002.SSF	332624.0549	1416
722234.334	4294313.785	5630	30-Oct-13	103013-002.SSF	332625.073	1417
722234.376	4294313.792	5747	30-Oct-13	103013-002.SSF	332625.9919	1418
722234.306	4294313.758	6157	30-Oct-13	103013-002.SSF	332627.061	1419
722234.068	4294313.713	5683	30-Oct-13	103013-002.SSF	332627.96	1420
722234.054	4294313.692	6054	30-Oct-13	103013-002.SSF	332629.0669	1421
722234.044	4294313.721	5505	30-Oct-13	103013-002.SSF	332630.009	1422
722233.951	4294313.688	5497	30-Oct-13	103013-002.SSF	332631.0171	1423
722233.907	4294313.498	5027	30-Oct-13	103013-002.SSF	332632.0071	1424
722234.086	4294313.175	4920	30-Oct-13	103013-002.SSF	332633.002	1425
722234.05	4294313.131	5085	30-Oct-13	103013-002.SSF	332633.97	1426
722233.812	4294313.398	5470	30-Oct-13	103013-002.SSF	332635.1499	1427
722233.662	4294313.606	5132	30-Oct-13	103013-002.SSF	332636.0859	1428
722233.255	4294313.925	5114	30-Oct-13	103013-002.SSF	332637.083	1429
722233.167	4294314.103	5681	30-Oct-13	103013-002.SSF	332638.0869	1430
722233.299	4294314.191	5401	30-Oct-13	103013-002.SSF	332639.1069	1431
722233.568	4294314.238	5265	30-Oct-13	103013-002.SSF	332640.124	1432
722233.705	4294314.102	5144	30-Oct-13	103013-002.SSF	332641.0659	1433
722233.713	4294314.003	5323	30-Oct-13	103013-002.SSF	332641.9839	1434
722233.682	4294313.362	5379	30-Oct-13	103013-002.SSF	332643.0591	1435
722233.987	4294312.666	5328	30-Oct-13	103013-002.SSF	332643.981	1436
722235.13	4294312.113	5262	30-Oct-13	103013-002.SSF	332645.073	1437
722235.298	4294311.861	5757	30-Oct-13	103013-002.SSF	332645.9041	1438
722234.86	4294312.149	5046	30-Oct-13	103013-002.SSF	332646.9951	1439
722234.665	4294312.028	4976	30-Oct-13	103013-002.SSF	332648.053	1440
722234.564	4294311.653	4869	30-Oct-13	103013-002.SSF	332649.0481	1441
722235.011	4294310.913	5011	30-Oct-13	103013-002.SSF	332649.9131	1442
722236.158	4294310.052	4904	30-Oct-13	103013-002.SSF	332650.9919	1443
722237.318	4294309.298	4941	30-Oct-13	103013-002.SSF	332652.001	1444
722238.712	4294308.735	4789	30-Oct-13	103013-002.SSF	332653.084	1445
722239.682	4294308.344	5116	30-Oct-13	103013-002.SSF	332653.894	1446
722241.279	4294308.068	4985	30-Oct-13	103013-002.SSF	332655.1201	1447
722242.212	4294307.763	4514	30-Oct-13	103013-002.SSF	332655.9431	1448
722243.338	4294307.541	4481	30-Oct-13	103013-002.SSF	332657.043	1449
722244.203	4294307.303	4298	30-Oct-13	103013-002.SSF	332657.875	1450
722245.344	4294307.785	4825	30-Oct-13	103013-002.SSF	332659.0601	1451
722246.568	4294307.937	5009	30-Oct-13	103013-002.SSF	332659.938	1452
722247.358	4294308.263	4775	30-Oct-13	103013-002.SSF	332661.106	1453
722247.406	4294308.767	4613	30-Oct-13	103013-002.SSF	332662.0449	1454
722247.069	4294309.164	4687	30-Oct-13	103013-002.SSF	332663.052	1455
722246.404	4294309.305	4804	30-Oct-13	103013-002.SSF	332664.0281	1456
722245.792	4294309.167	4615	30-Oct-13	103013-002.SSF	332665.1721	1457

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722245.558	4294308.834	4771	30-Oct-13	103013-002.SSF	332665.998	1458
722245.18	4294308.582	4888	30-Oct-13	103013-002.SSF	332667.1399	1459
722244.703	4294308.566	4564	30-Oct-13	103013-002.SSF	332668.0759	1460
722243.907	4294309.069	4585	30-Oct-13	103013-002.SSF	332669.155	1461
722243.429	4294309.635	4409	30-Oct-13	103013-002.SSF	332669.981	1462
722243.15	4294310.788	4550	30-Oct-13	103013-002.SSF	332671.0171	1463
722243.334	4294311.226	4937	30-Oct-13	103013-002.SSF	332671.9341	1464
722243.225	4294312.154	5304	30-Oct-13	103013-002.SSF	332673.0481	1465
722243.224	4294312.595	5211	30-Oct-13	103013-002.SSF	332673.907	1466
722243.08	4294312.553	4941	30-Oct-13	103013-002.SSF	332675	1467
722243.387	4294312.451	4527	30-Oct-13	103013-002.SSF	332676.022	1468
722243.609	4294312.65	4991	30-Oct-13	103013-002.SSF	332677.0391	1469
722243.889	4294312.656	4930	30-Oct-13	103013-002.SSF	332677.939	1470
722244.103	4294312.468	5000	30-Oct-13	103013-002.SSF	332678.9351	1471
722244.275	4294312.294	5100	30-Oct-13	103013-002.SSF	332679.939	1472
722244.585	4294312.035	4939	30-Oct-13	103013-002.SSF	332680.9929	1473
722244.672	4294311.879	4765	30-Oct-13	103013-002.SSF	332681.906	1474
722244.622	4294311.734	5080	30-Oct-13	103013-002.SSF	332682.9609	1475
722244.697	4294311.583	5055	30-Oct-13	103013-002.SSF	332684.0061	1476
722244.773	4294311.512	4681	30-Oct-13	103013-002.SSF	332685.0669	1477
722244.902	4294311.453	4845	30-Oct-13	103013-002.SSF	332685.9089	1478
722244.936	4294311.341	5148	30-Oct-13	103013-002.SSF	332687.052	1479
722245.081	4294311.305	5108	30-Oct-13	103013-002.SSF	332688.0161	1480
722245.035	4294311.112	5101	30-Oct-13	103013-002.SSF	332689.094	1481
722244.924	4294311.24	5096	30-Oct-13	103013-002.SSF	332689.9729	1482
722244.357	4294311.169	5094	30-Oct-13	103013-002.SSF	332691.175	1483
722244.052	4294311.155	5010	30-Oct-13	103013-002.SSF	332691.9971	1484
722244.219	4294311.146	5211	30-Oct-13	103013-002.SSF	332693.033	1485
722244.339	4294311.088	5413	30-Oct-13	103013-002.SSF	332694.0271	1486
722244.496	4294311.016	5265	30-Oct-13	103013-002.SSF	332695.0659	1487
722244.641	4294310.929	5541	30-Oct-13	103013-002.SSF	332695.9419	1488
722244.748	4294310.87	5524	30-Oct-13	103013-002.SSF	332697.0391	1489
722244.846	4294310.745	5020	30-Oct-13	103013-002.SSF	332697.887	1490
722244.952	4294310.566	5426	30-Oct-13	103013-002.SSF	332699.114	1491
722245.019	4294310.444	5475	30-Oct-13	103013-002.SSF	332699.9241	1492
722245.289	4294310.177	5202	30-Oct-13	103013-002.SSF	332701.074	1493
722245.387	4294310.079	5701	30-Oct-13	103013-002.SSF	332701.9009	1494
722245.455	4294310.027	5291	30-Oct-13	103013-002.SSF	332703.0759	1495
722245.299	4294309.705	5649	30-Oct-13	103013-002.SSF	332703.9021	1496
722245.29	4294309.709	5169	30-Oct-13	103013-002.SSF	332704.9729	1497
722245.099	4294309.53	5435	30-Oct-13	103013-002.SSF	332705.937	1498
722245.163	4294309.599	5404	30-Oct-13	103013-002.SSF	332706.946	1499
722244.961	4294309.781	4975	30-Oct-13	103013-002.SSF	332707.9319	1500
722244.84	4294309.895	5191	30-Oct-13	103013-002.SSF	332709.03	1501
722244.728	4294309.888	5387	30-Oct-13	103013-002.SSF	332709.8679	1502
722244.565	4294309.849	5483	30-Oct-13	103013-002.SSF	332711.105	1503
722244.453	4294309.774	5994	30-Oct-13	103013-002.SSF	332712.001	1504

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722244.409	4294309.868	5854	30-Oct-13	103013-002.SSF	332713.1399	1505
722244.438	4294309.949	5835	30-Oct-13	103013-002.SSF	332713.991	1506
722244.58	4294310.035	5457	30-Oct-13	103013-002.SSF	332715.134	1507
722244.832	4294310.164	5117	30-Oct-13	103013-002.SSF	332716.1741	1508
722244.701	4294309.998	5128	30-Oct-13	103013-002.SSF	332717.1499	1509
722244.575	4294310.043	4737	30-Oct-13	103013-002.SSF	332717.928	1510
722244.954	4294310.132	4757	30-Oct-13	103013-002.SSF	332719.094	1511
722244.363	4294310.189	4993	30-Oct-13	103013-002.SSF	332719.9419	1512
722244.754	4294310.393	5208	30-Oct-13	103013-002.SSF	332720.9819	1513
722244.914	4294310.459	5007	30-Oct-13	103013-002.SSF	332721.989	1514
722245.03	4294310.668	5029	30-Oct-13	103013-002.SSF	332723.0959	1515
722245.07	4294310.78	5236	30-Oct-13	103013-002.SSF	332723.988	1516
722244.929	4294310.781	5270	30-Oct-13	103013-002.SSF	332725.0149	1517
722244.823	4294310.711	5289	30-Oct-13	103013-002.SSF	332726.157	1518
722244.713	4294310.712	5428	30-Oct-13	103013-002.SSF	332726.9939	1519
722244.646	4294310.732	5183	30-Oct-13	103013-002.SSF	332727.991	1520
722235.999	4294311.631	4588	01-Nov-13	11012013-001.SSF	477553.474	1521
722235.961	4294311.668	4680	01-Nov-13	11012013-001.SSF	477554.389	1522
722235.945	4294311.685	4807	01-Nov-13	11012013-001.SSF	477555.47	1523
722235.968	4294311.655	4699	01-Nov-13	11012013-001.SSF	477556.354	1524
722235.991	4294311.618	4271	01-Nov-13	11012013-001.SSF	477557.432	1525
722236.002	4294311.591	4315	01-Nov-13	11012013-001.SSF	477558.377	1526
722237.153	4294309.979	5012	01-Nov-13	11012013-001.SSF	478490.119	1527
722237.288	4294310.023	4769	01-Nov-13	11012013-001.SSF	478491.251	1528
722237.443	4294310.05	4827	01-Nov-13	11012013-001.SSF	478492.12	1529
722237.716	4294309.953	4913	01-Nov-13	11012013-001.SSF	478493.286	1530
722237.954	4294309.88	5186	01-Nov-13	11012013-001.SSF	478494.1121	1531
722238.067	4294310.2	5287	01-Nov-13	11012013-001.SSF	478495.238	1532
722238.066	4294310.654	5186	01-Nov-13	11012013-001.SSF	478496.066	1533
722238.018	4294310.909	4537	01-Nov-13	11012013-001.SSF	478497.141	1534
722238.01	4294311.049	4592	01-Nov-13	11012013-001.SSF	478498.09	1535
722238.259	4294311.201	4930	01-Nov-13	11012013-001.SSF	478499.197	1536
722238.735	4294311.429	5391	01-Nov-13	11012013-001.SSF	478500.076	1537
722239.106	4294311.626	5672	01-Nov-13	11012013-001.SSF	478501.199	1538
722238.374	4294311.419	5493	01-Nov-13	11012013-001.SSF	478502.0699	1539
722238.499	4294311.326	5197	01-Nov-13	11012013-001.SSF	478503.114	1540
722237.393	4294311.087	5428	01-Nov-13	11012013-001.SSF	478504.092	1541
722237.175	4294311.494	5363	01-Nov-13	11012013-001.SSF	478505.196	1542
722237.008	4294311.705	5139	01-Nov-13	11012013-001.SSF	478506.082	1543
722236.17	4294311.439	4863	01-Nov-13	11012013-001.SSF	478507.129	1544
722236.023	4294311.17	5525	01-Nov-13	11012013-001.SSF	478508.142	1545
722235.819	4294310.954	5103	01-Nov-13	11012013-001.SSF	478509.126	1546
722235.717	4294310.708	5585	01-Nov-13	11012013-001.SSF	478510.037	1547
722235.44	4294310.448	5317	01-Nov-13	11012013-001.SSF	478511.1899	1548
722235.163	4294310.278	5623	01-Nov-13	11012013-001.SSF	478512.007	1549
722235.339	4294310.483	5150	01-Nov-13	11012013-001.SSF	478513.188	1550
722235.65	4294310.562	5529	01-Nov-13	11012013-001.SSF	478514.147	1551

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722235.461	4294310.831	5383	01-Nov-13	11012013-001.SSF	478515.067	1552
722235.308	4294310.903	4992	01-Nov-13	11012013-001.SSF	478516.019	1553
722234.829	4294310.82	5133	01-Nov-13	11012013-001.SSF	478517.231	1554
722234.565	4294310.748	5047	01-Nov-13	11012013-001.SSF	478518.072	1555
722234.352	4294310.599	5299	01-Nov-13	11012013-001.SSF	478519.146	1556
722234.203	4294310.684	5381	01-Nov-13	11012013-001.SSF	478519.959	1557
722234.089	4294310.604	5351	01-Nov-13	11012013-001.SSF	478521.08	1558
722234.301	4294310.65	5463	01-Nov-13	11012013-001.SSF	478522.035	1559
722234.611	4294310.502	5022	01-Nov-13	11012013-001.SSF	478523.0959	1560
722234.839	4294310.478	5240	01-Nov-13	11012013-001.SSF	478523.97	1561
722234.981	4294310.165	5430	01-Nov-13	11012013-001.SSF	478525.068	1562
722234.866	4294310.047	5237	01-Nov-13	11012013-001.SSF	478526.036	1563
722234.359	4294309.747	5496	01-Nov-13	11012013-001.SSF	478527.1379	1564
722234.186	4294309.772	5536	01-Nov-13	11012013-001.SSF	478528.031	1565
722233.858	4294309.718	5634	01-Nov-13	11012013-001.SSF	478529.075	1566
722233.607	4294309.749	5636	01-Nov-13	11012013-001.SSF	478530.098	1567
722233.422	4294309.665	5210	01-Nov-13	11012013-001.SSF	478531.114	1568
722233.216	4294309.658	5121	01-Nov-13	11012013-001.SSF	478532.075	1569
722233.002	4294309.62	5070	01-Nov-13	11012013-001.SSF	478533.171	1570
722233.095	4294309.729	5012	01-Nov-13	11012013-001.SSF	478534.093	1571
722233.239	4294309.993	5039	01-Nov-13	11012013-001.SSF	478535.1899	1572
722233.324	4294310.15	5114	01-Nov-13	11012013-001.SSF	478536.1219	1573
722232.947	4294309.888	5397	01-Nov-13	11012013-001.SSF	478537.186	1574
722232.819	4294309.686	5165	01-Nov-13	11012013-001.SSF	478538.139	1575
722232.764	4294309.803	4826	01-Nov-13	11012013-001.SSF	478539.213	1576
722232.981	4294310.063	4994	01-Nov-13	11012013-001.SSF	478540.12	1577
722233.408	4294310.399	5232	01-Nov-13	11012013-001.SSF	478541.153	1578
722233.604	4294310.578	5088	01-Nov-13	11012013-001.SSF	478542.045	1579
722233.861	4294310.739	4947	01-Nov-13	11012013-001.SSF	478543.205	1580
722233.746	4294310.798	5235	01-Nov-13	11012013-001.SSF	478544.061	1581
722233.825	4294311.009	5404	01-Nov-13	11012013-001.SSF	478545.26	1582
722233.682	4294311.312	5155	01-Nov-13	11012013-001.SSF	478546.09	1583
722233.513	4294311.471	5202	01-Nov-13	11012013-001.SSF	478547.2	1584
722233.184	4294311.633	5318	01-Nov-13	11012013-001.SSF	478548.125	1585
722232.409	4294311.693	5782	01-Nov-13	11012013-001.SSF	478549.1949	1586
722232.085	4294311.595	5922	01-Nov-13	11012013-001.SSF	478550.084	1587
722231.898	4294311.551	5693	01-Nov-13	11012013-001.SSF	478551.099	1588
722231.455	4294311.55	5467	01-Nov-13	11012013-001.SSF	478552.037	1589
722231.157	4294311.309	5813	01-Nov-13	11012013-001.SSF	478553.228	1590
722230.919	4294311.456	5910	01-Nov-13	11012013-001.SSF	478554.083	1591
722230.805	4294312.519	6234	01-Nov-13	11012013-001.SSF	478555.1801	1592
722230.502	4294312.538	6371	01-Nov-13	11012013-001.SSF	478555.9821	1593
722229.943	4294313.169	6614	01-Nov-13	11012013-001.SSF	478557.101	1594
722229.769	4294313.12	7177	01-Nov-13	11012013-001.SSF	478557.964	1595
722229.998	4294312.906	7000	01-Nov-13	11012013-001.SSF	478559.145	1596
722229.942	4294312.657	6945	01-Nov-13	11012013-001.SSF	478560.182	1597
722229.983	4294313.201	6734	01-Nov-13	11012013-001.SSF	478561.126	1598

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722230.368	4294313.565	6510	01-Nov-13	11012013-001.SSF	478562.125	1599
722229.965	4294314.009	6212	01-Nov-13	11012013-001.SSF	478563.179	1600
722229.788	4294314.396	5669	01-Nov-13	11012013-001.SSF	478564.0229	1601
722229.912	4294314.605	5911	01-Nov-13	11012013-001.SSF	478565.13	1602
722230.446	4294315.117	6010	01-Nov-13	11012013-001.SSF	478566.068	1603
722230.54	4294316.026	6845	01-Nov-13	11012013-001.SSF	478567.174	1604
722230.725	4294316.035	6543	01-Nov-13	11012013-001.SSF	478568.024	1605
722230.854	4294316.957	6118	01-Nov-13	11012013-001.SSF	478569.123	1606
722231.743	4294317.181	5706	01-Nov-13	11012013-001.SSF	478570.21	1607
722231.953	4294317.306	5587	01-Nov-13	11012013-001.SSF	478571.106	1608
722232.003	4294317.025	5872	01-Nov-13	11012013-001.SSF	478572.006	1609
722231.845	4294316.973	5718	01-Nov-13	11012013-001.SSF	478573.25	1610
722231.709	4294317.06	5459	01-Nov-13	11012013-001.SSF	478574.067	1611
722231.633	4294317.678	5553	01-Nov-13	11012013-001.SSF	478575.192	1612
722231.857	4294317.732	5823	01-Nov-13	11012013-001.SSF	478576.137	1613
722231.801	4294317.784	5720	01-Nov-13	11012013-001.SSF	478577.182	1614
722231.853	4294317.933	5663	01-Nov-13	11012013-001.SSF	478578.0959	1615
722231.762	4294317.597	5668	01-Nov-13	11012013-001.SSF	478579.177	1616
722231.954	4294317.806	5648	01-Nov-13	11012013-001.SSF	478580.0699	1617
722231.976	4294317.288	5412	01-Nov-13	11012013-001.SSF	478581.166	1618
722231.619	4294316.9	5564	01-Nov-13	11012013-001.SSF	478582.193	1619
722257.844	4294349.521	8205	01-Nov-13	11012013-001.SSF	480651.9551	1620
722257.844	4294349.521	7990	01-Nov-13	11012013-001.SSF	480651.958	1621
722257.844	4294349.521	8237	01-Nov-13	11012013-001.SSF	480651.9619	1622
722257.848	4294349.52	8053	01-Nov-13	11012013-001.SSF	480652.4299	1623
722257.847	4294349.563	8010	01-Nov-13	11012013-001.SSF	480653.3711	1624
722257.867	4294349.63	8540	01-Nov-13	11012013-001.SSF	480654.374	1625
722257.943	4294349.611	8711	01-Nov-13	11012013-001.SSF	480655.281	1626
722258.007	4294349.575	9347	01-Nov-13	11012013-001.SSF	480656.311	1627
722258.015	4294349.542	8798	01-Nov-13	11012013-001.SSF	480657.272	1628
722258.077	4294349.547	8969	01-Nov-13	11012013-001.SSF	480658.6541	1629
722258.093	4294349.559	8277	01-Nov-13	11012013-001.SSF	480659.238	1630
722258.137	4294349.54	8301	01-Nov-13	11012013-001.SSF	480660.6211	1631
722258.14	4294349.537	7504	01-Nov-13	11012013-001.SSF	480660.676	1632
722258.233	4294349.518	8068	01-Nov-13	11012013-001.SSF	480661.7329	1633
722258.272	4294349.502	7906	01-Nov-13	11012013-001.SSF	480662.6509	1634
722258.268	4294349.494	7747	01-Nov-13	11012013-001.SSF	480663.667	1635
722258.241	4294349.519	8385	01-Nov-13	11012013-001.SSF	480665.3811	1636
722258.221	4294349.535	8481	01-Nov-13	11012013-001.SSF	480666.334	1637
722258.203	4294349.558	8528	01-Nov-13	11012013-001.SSF	480667.23	1638
722258.17	4294349.572	8112	01-Nov-13	11012013-001.SSF	480668.241	1639
722258.104	4294349.554	8905	01-Nov-13	11012013-001.SSF	480669.1189	1640
722258.089	4294349.524	9164	01-Nov-13	11012013-001.SSF	480670.3059	1641
722258.169	4294349.506	9197	01-Nov-13	11012013-001.SSF	480671.3789	1642
722258.254	4294349.498	8833	01-Nov-13	11012013-001.SSF	480672.272	1643
722258.351	4294349.496	8823	01-Nov-13	11012013-001.SSF	480673.335	1644
722258.396	4294349.511	8953	01-Nov-13	11012013-001.SSF	480674.2849	1645

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722258.494	4294349.533	9026	01-Nov-13	11012013-001.SSF	480675.2629	1646
722258.608	4294349.55	8197	01-Nov-13	11012013-001.SSF	480676.2949	1647
722258.668	4294349.526	8241	01-Nov-13	11012013-001.SSF	480677.2581	1648
722258.685	4294349.503	8295	01-Nov-13	11012013-001.SSF	480678.325	1649
722258.645	4294349.493	8491	01-Nov-13	11012013-001.SSF	480679.259	1650
722258.59	4294349.49	8031	01-Nov-13	11012013-001.SSF	480680.282	1651
722258.549	4294349.499	8260	01-Nov-13	11012013-001.SSF	480681.311	1652
722258.559	4294349.541	8036	01-Nov-13	11012013-001.SSF	480682.3059	1653
722258.537	4294349.682	8000	01-Nov-13	11012013-001.SSF	480683.3181	1654
722258.5	4294349.875	8692	01-Nov-13	11012013-001.SSF	480684.3169	1655
722258.489	4294349.98	8819	01-Nov-13	11012013-001.SSF	480685.2729	1656
722258.461	4294349.974	8763	01-Nov-13	11012013-001.SSF	480686.4089	1657
722258.429	4294349.958	8604	01-Nov-13	11012013-001.SSF	480687.3159	1658
722258.408	4294349.932	8597	01-Nov-13	11012013-001.SSF	480688.334	1659
722258.426	4294349.838	8218	01-Nov-13	11012013-001.SSF	480689.343	1660
722258.407	4294349.788	8403	01-Nov-13	11012013-001.SSF	480690.345	1661
722258.374	4294349.768	8499	01-Nov-13	11012013-001.SSF	480691.2749	1662
722258.366	4294349.712	8643	01-Nov-13	11012013-001.SSF	480692.397	1663
722258.331	4294349.681	8521	01-Nov-13	11012013-001.SSF	480693.3301	1664
722258.263	4294349.623	8041	01-Nov-13	11012013-001.SSF	480694.2891	1665
722258.302	4294349.496	8385	01-Nov-13	11012013-001.SSF	480695.3401	1666
722258.415	4294349.345	8489	01-Nov-13	11012013-001.SSF	480696.4189	1667
722258.465	4294349.243	8592	01-Nov-13	11012013-001.SSF	480697.3479	1668
722258.454	4294349.29	8328	01-Nov-13	11012013-001.SSF	480698.3269	1669
722258.348	4294349.492	8472	01-Nov-13	11012013-001.SSF	480699.343	1670
722258.273	4294349.629	8695	01-Nov-13	11012013-001.SSF	480700.2871	1671
722258.602	4294349.552	8978	01-Nov-13	11012013-001.SSF	480701.248	1672
722259.031	4294349.397	8440	01-Nov-13	11012013-001.SSF	480702.2419	1673
722259.128	4294349.284	8662	01-Nov-13	11012013-001.SSF	480703.1621	1674
722259.052	4294349.171	8705	01-Nov-13	11012013-001.SSF	480704.231	1675
722259.067	4294349.151	8961	01-Nov-13	11012013-001.SSF	480705.249	1676
722259.079	4294349.235	8708	01-Nov-13	11012013-001.SSF	480706.262	1677
722259.098	4294349.398	8603	01-Nov-13	11012013-001.SSF	480707.2729	1678
722259.037	4294349.471	8409	01-Nov-13	11012013-001.SSF	480708.3501	1679
722258.968	4294349.402	8742	01-Nov-13	11012013-001.SSF	480709.21	1680
722258.884	4294349.242	8045	01-Nov-13	11012013-001.SSF	480710.3149	1681
722258.798	4294349.103	7863	01-Nov-13	11012013-001.SSF	480711.2649	1682
722258.683	4294349.004	8293	01-Nov-13	11012013-001.SSF	480712.3711	1683
722258.51	4294348.956	8287	01-Nov-13	11012013-001.SSF	480713.2629	1684
722258.16	4294348.875	8914	01-Nov-13	11012013-001.SSF	480714.363	1685
722258.009	4294348.867	8861	01-Nov-13	11012013-001.SSF	480715.2119	1686
722258.067	4294349.008	8599	01-Nov-13	11012013-001.SSF	480716.3279	1687
722258.127	4294349.201	8490	01-Nov-13	11012013-001.SSF	480717.251	1688
722258.035	4294349.3	8825	01-Nov-13	11012013-001.SSF	480718.2351	1689
722257.748	4294349.474	8571	01-Nov-13	11012013-001.SSF	480719.186	1690
722257.779	4294349.482	8721	01-Nov-13	11012013-001.SSF	480720.291	1691
722257.817	4294349.43	8888	01-Nov-13	11012013-001.SSF	480721.2251	1692

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722257.799	4294349.274	8667	01-Nov-13	11012013-001.SSF	480722.314	1693
722257.561	4294349.039	8445	01-Nov-13	11012013-001.SSF	480723.2439	1694
722256.855	4294348.794	8605	01-Nov-13	11012013-001.SSF	480724.2529	1695
722256.679	4294348.77	8590	01-Nov-13	11012013-001.SSF	480725.2561	1696
722256.75	4294348.866	8612	01-Nov-13	11012013-001.SSF	480726.2859	1697
722256.789	4294348.924	7972	01-Nov-13	11012013-001.SSF	480727.2141	1698
722256.658	4294348.924	8054	01-Nov-13	11012013-001.SSF	480728.3049	1699
722256.518	4294348.936	8520	01-Nov-13	11012013-001.SSF	480729.176	1700
722256.474	4294348.957	9022	01-Nov-13	11012013-001.SSF	480730.3	1701
722256.549	4294348.864	8585	01-Nov-13	11012013-001.SSF	480731.24	1702
722256.6	4294348.751	9291	01-Nov-13	11012013-001.SSF	480732.2871	1703
722256.597	4294348.698	8616	01-Nov-13	11012013-001.SSF	480733.3091	1704
722256.615	4294348.675	8311	01-Nov-13	11012013-001.SSF	480734.2839	1705
722256.717	4294348.701	8058	01-Nov-13	11012013-001.SSF	480735.323	1706
722256.79	4294348.691	8477	01-Nov-13	11012013-001.SSF	480736.283	1707
722256.847	4294348.727	9096	01-Nov-13	11012013-001.SSF	480737.343	1708
722256.881	4294348.745	8371	01-Nov-13	11012013-001.SSF	480738.3101	1709
722256.863	4294348.636	7814	01-Nov-13	11012013-001.SSF	480739.2881	1710
722256.803	4294348.54	8002	01-Nov-13	11012013-001.SSF	480740.342	1711
722256.769	4294348.48	8079	01-Nov-13	11012013-001.SSF	480741.2571	1712
722256.732	4294348.404	8279	01-Nov-13	11012013-001.SSF	480742.353	1713
722256.691	4294348.369	8639	01-Nov-13	11012013-001.SSF	480743.3069	1714
722256.664	4294348.375	8497	01-Nov-13	11012013-001.SSF	480744.2729	1715
722256.635	4294348.335	7944	01-Nov-13	11012013-001.SSF	480745.3049	1716
722256.638	4294348.277	7979	01-Nov-13	11012013-001.SSF	480746.3899	1717
722256.631	4294348.225	8065	01-Nov-13	11012013-001.SSF	480747.2891	1718
722256.63	4294348.182	7912	01-Nov-13	11012013-001.SSF	480748.332	1719
722256.601	4294348.128	8170	01-Nov-13	11012013-001.SSF	480749.364	1720
722256.584	4294348.119	8405	01-Nov-13	11012013-001.SSF	480750.3721	1721
722256.599	4294348.152	7983	01-Nov-13	11012013-001.SSF	480751.2981	1722
722256.584	4294348.155	8323	01-Nov-13	11012013-001.SSF	480752.395	1723
722256.53	4294348.128	8559	01-Nov-13	11012013-001.SSF	480753.3721	1724
722256.461	4294348.11	8197	01-Nov-13	11012013-001.SSF	480754.3789	1725
722256.396	4294348.074	7716	01-Nov-13	11012013-001.SSF	480755.2839	1726
722256.368	4294348.018	8772	01-Nov-13	11012013-001.SSF	480756.3191	1727
722256.364	4294347.974	8677	01-Nov-13	11012013-001.SSF	480757.2549	1728
722256.309	4294347.978	8166	01-Nov-13	11012013-001.SSF	480758.3889	1729
722256.195	4294348.014	8261	01-Nov-13	11012013-001.SSF	480759.2361	1730
722256.063	4294348.084	7856	01-Nov-13	11012013-001.SSF	480760.343	1731
722255.99	4294348.103	7584	01-Nov-13	11012013-001.SSF	480761.281	1732
722255.939	4294348.107	7056	01-Nov-13	11012013-001.SSF	480762.2361	1733
722255.93	4294348.118	7951	01-Nov-13	11012013-001.SSF	480763.2849	1734
722255.92	4294348.084	7802	01-Nov-13	11012013-001.SSF	480764.2859	1735
722255.904	4294348.069	7914	01-Nov-13	11012013-001.SSF	480765.2539	1736
722255.852	4294348.033	7909	01-Nov-13	11012013-001.SSF	480766.3291	1737
722255.835	4294348.016	8273	01-Nov-13	11012013-001.SSF	480767.304	1738
722255.839	4294347.997	8674	01-Nov-13	11012013-001.SSF	480768.3821	1739

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722255.854	4294347.941	8008	01-Nov-13	11012013-001.SSF	480770.333	1741
722255.911	4294347.891	8022	01-Nov-13	11012013-001.SSF	480771.281	1742
722256.181	4294348.07	8000	01-Nov-13	11012013-001.SSF	480772.3601	1743
722256.582	4294348.214	8235	01-Nov-13	11012013-001.SSF	480773.26	1744
722257.395	4294348.154	8772	01-Nov-13	11012013-001.SSF	480774.2971	1745
722258.49	4294348.029	8924	01-Nov-13	11012013-001.SSF	480775.2041	1746
722259.709	4294347.781	8875	01-Nov-13	11012013-001.SSF	480776.312	1747
722260.654	4294347.644	8037	01-Nov-13	11012013-001.SSF	480777.187	1748
722261.536	4294347.381	8098	01-Nov-13	11012013-001.SSF	480778.3569	1749
722262.226	4294347.383	7735	01-Nov-13	11012013-001.SSF	480779.2471	1750
722263.042	4294347.59	7756	01-Nov-13	11012013-001.SSF	480780.3291	1751
722263.603	4294348.039	7812	01-Nov-13	11012013-001.SSF	480781.168	1752
722264.084	4294349.241	8422	01-Nov-13	11012013-001.SSF	480782.343	1753
722264.354	4294350.086	8232	01-Nov-13	11012013-001.SSF	480783.1809	1754
722264.885	4294350.745	7938	01-Nov-13	11012013-001.SSF	480784.2771	1755
722265.525	4294350.927	8515	01-Nov-13	11012013-001.SSF	480785.241	1756
722266.694	4294350.777	7504	01-Nov-13	11012013-001.SSF	480786.3779	1757
722267.591	4294350.551	7544	01-Nov-13	11012013-001.SSF	480787.2251	1758
722268.526	4294350.452	7453	01-Nov-13	11012013-001.SSF	480788.345	1759
722268.9	4294350.384	7372	01-Nov-13	11012013-001.SSF	480789.2271	1760
722269.286	4294350.19	7492	01-Nov-13	11012013-001.SSF	480790.3491	1761
722269.461	4294350.125	7252	01-Nov-13	11012013-001.SSF	480791.2141	1762
722269.518	4294350.144	7199	01-Nov-13	11012013-001.SSF	480792.345	1763
722269.636	4294350.058	7139	01-Nov-13	11012013-001.SSF	480793.2251	1764
722269.751	4294349.952	7428	01-Nov-13	11012013-001.SSF	480794.387	1765
722269.789	4294349.893	7141	01-Nov-13	11012013-001.SSF	480795.2241	1766
722269.783	4294349.913	7271	01-Nov-13	11012013-001.SSF	480796.271	1767
722269.757	4294349.916	7270	01-Nov-13	11012013-001.SSF	480797.158	1768
722269.772	4294349.933	6917	01-Nov-13	11012013-001.SSF	480798.283	1769
722269.827	4294350.082	6853	01-Nov-13	11012013-001.SSF	480799.2129	1770
722269.854	4294350.29	7095	01-Nov-13	11012013-001.SSF	480800.2671	1771
722269.847	4294350.451	7096	01-Nov-13	11012013-001.SSF	480801.2329	1772
722269.761	4294350.54	7389	01-Nov-13	11012013-001.SSF	480802.3721	1773
722269.545	4294350.572	7281	01-Nov-13	11012013-001.SSF	480803.2881	1774
722269.116	4294350.861	7877	01-Nov-13	11012013-001.SSF	480804.304	1775
722268.887	4294350.982	7746	01-Nov-13	11012013-001.SSF	480805.2041	1776
722268.748	4294351.002	7799	01-Nov-13	11012013-001.SSF	480806.252	1777
722268.703	4294350.987	8235	01-Nov-13	11012013-001.SSF	480807.1411	1778
722268.692	4294350.921	8007	01-Nov-13	11012013-001.SSF	480808.252	1779
722268.662	4294350.845	7856	01-Nov-13	11012013-001.SSF	480809.125	1780
722268.666	4294350.772	7869	01-Nov-13	11012013-001.SSF	480810.261	1781
722268.644	4294350.706	7561	01-Nov-13	11012013-001.SSF	480811.1689	1782
722268.566	4294350.593	7305	01-Nov-13	11012013-001.SSF	480812.272	1783
722268.518	4294350.529	7319	01-Nov-13	11012013-001.SSF	480813.158	1784
722268.413	4294350.408	7575	01-Nov-13	11012013-001.SSF	480814.2939	1785
722268.331	4294350.306	7568	01-Nov-13	11012013-001.SSF	480815.2371	1786

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722268.254	4294350.207	7257	01-Nov-13	11012013-001.SSF	480816.2571	1787
722268.172	4294350.123	7299	01-Nov-13	11012013-001.SSF	480817.2151	1788
722268.123	4294350.116	7436	01-Nov-13	11012013-001.SSF	480818.321	1789
722268.133	4294350.173	7340	01-Nov-13	11012013-001.SSF	480819.1399	1790
722268.233	4294350.003	7233	01-Nov-13	11012013-001.SSF	480820.2791	1791
722268.287	4294349.837	7256	01-Nov-13	11012013-001.SSF	480821.22	1792
722268.295	4294349.701	6946	01-Nov-13	11012013-001.SSF	480822.3359	1793
722268.305	4294349.65	6885	01-Nov-13	11012013-001.SSF	480823.2871	1794
722268.321	4294349.64	7173	01-Nov-13	11012013-001.SSF	480824.3811	1795
722268.312	4294349.607	7139	01-Nov-13	11012013-001.SSF	480825.28	1796
722268.302	4294349.563	7098	01-Nov-13	11012013-001.SSF	480826.3311	1797
722268.274	4294349.503	7210	01-Nov-13	11012013-001.SSF	480827.1931	1798
722268.211	4294349.362	7033	01-Nov-13	11012013-001.SSF	480828.302	1799
722268.174	4294349.265	7593	01-Nov-13	11012013-001.SSF	480829.2429	1800
722268.146	4294349.177	7796	01-Nov-13	11012013-001.SSF	480830.3491	1801
722268.133	4294349.126	8270	01-Nov-13	11012013-001.SSF	480831.2759	1802
722268.138	4294349.113	8117	01-Nov-13	11012013-001.SSF	480832.4121	1803
722268.136	4294349.117	7971	01-Nov-13	11012013-001.SSF	480833.2629	1804
722268.148	4294349.111	8211	01-Nov-13	11012013-001.SSF	480834.3821	1805
722268.171	4294349.123	7888	01-Nov-13	11012013-001.SSF	480835.2629	1806
722268.135	4294349.095	7677	01-Nov-13	11012013-001.SSF	480836.3379	1807
722268.038	4294349.026	8413	01-Nov-13	11012013-001.SSF	480837.2891	1808
722268.065	4294348.987	7972	01-Nov-13	11012013-001.SSF	480838.374	1809
722268.33	4294349.081	8107	01-Nov-13	11012013-001.SSF	480839.2471	1810
722268.779	4294349.405	7755	01-Nov-13	11012013-001.SSF	480840.2361	1811
722269.209	4294349.712	7894	01-Nov-13	11012013-001.SSF	480841.2251	1812
722269.685	4294349.974	8190	01-Nov-13	11012013-001.SSF	480842.2839	1813
722270.129	4294350.261	8590	01-Nov-13	11012013-001.SSF	480843.1211	1814
722271.086	4294350.615	8086	01-Nov-13	11012013-001.SSF	480844.2959	1815
722271.971	4294350.683	8291	01-Nov-13	11012013-001.SSF	480845.219	1816
722272.843	4294350.702	7596	01-Nov-13	11012013-001.SSF	480846.3301	1817
722273.528	4294350.701	7940	01-Nov-13	11012013-001.SSF	480847.22	1818
722274.461	4294350.854	8426	01-Nov-13	11012013-001.SSF	480848.2451	1819
722275.064	4294350.974	8272	01-Nov-13	11012013-001.SSF	480849.21	1820
722275.536	4294351.167	7998	01-Nov-13	11012013-001.SSF	480850.3049	1821
722275.831	4294351.322	8294	01-Nov-13	11012013-001.SSF	480851.1609	1822
722276.49	4294351.664	8625	01-Nov-13	11012013-001.SSF	480852.332	1823
722276.803	4294351.91	9149	01-Nov-13	11012013-001.SSF	480853.1609	1824
722276.941	4294352.61	9189	01-Nov-13	11012013-001.SSF	480854.2271	1825
722277.08	4294353.004	9188	01-Nov-13	11012013-001.SSF	480855.2161	1826
722277.143	4294353.454	8738	01-Nov-13	11012013-001.SSF	480856.364	1827
722277.208	4294353.797	8253	01-Nov-13	11012013-001.SSF	480857.2119	1828
722277.712	4294353.937	8692	01-Nov-13	11012013-001.SSF	480858.25	1829
722278.096	4294354.069	8759	01-Nov-13	11012013-001.SSF	480859.1951	1830
722278.507	4294354	8009	01-Nov-13	11012013-001.SSF	480860.282	1831
722279.003	4294354.115	7985	01-Nov-13	11012013-001.SSF	480861.2419	1832
722279.398	4294354.222	8429	01-Nov-13	11012013-001.SSF	480862.3511	1833

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722279.589	4294354.369	8754	01-Nov-13	11012013-001.SSF	480863.291	1834
722279.885	4294354.444	8704	01-Nov-13	11012013-001.SSF	480864.2639	1835
722280.269	4294354.41	8331	01-Nov-13	11012013-001.SSF	480865.1851	1836
722281.036	4294354.437	8376	01-Nov-13	11012013-001.SSF	480866.2649	1837
722281.705	4294354.184	7629	01-Nov-13	11012013-001.SSF	480867.137	1838
722282.917	4294354.062	7471	01-Nov-13	11012013-001.SSF	480868.2141	1839
722283.481	4294353.662	7532	01-Nov-13	11012013-001.SSF	480869.0911	1840
722284.157	4294353.541	7814	01-Nov-13	11012013-001.SSF	480870.291	1841
722284.524	4294353.519	8498	01-Nov-13	11012013-001.SSF	480871.26	1842
722284.697	4294353.514	8522	01-Nov-13	11012013-001.SSF	480872.333	1843
722284.723	4294353.498	8236	01-Nov-13	11012013-001.SSF	480873.2671	1844
722284.634	4294353.486	8075	01-Nov-13	11012013-001.SSF	480874.395	1845
722284.643	4294353.529	8030	01-Nov-13	11012013-001.SSF	480875.209	1846
722284.701	4294353.573	8139	01-Nov-13	11012013-001.SSF	480876.322	1847
722284.764	4294353.494	8081	01-Nov-13	11012013-001.SSF	480877.1809	1848
722284.836	4294353.447	8123	01-Nov-13	11012013-001.SSF	480878.2729	1849
722284.845	4294353.391	8131	01-Nov-13	11012013-001.SSF	480879.166	1850
722284.847	4294353.415	8399	01-Nov-13	11012013-001.SSF	480880.2109	1851
722284.862	4294353.412	8009	01-Nov-13	11012013-001.SSF	480881.1721	1852
722284.766	4294353.344	8187	01-Nov-13	11012013-001.SSF	480882.2271	1853
722284.722	4294353.275	8303	01-Nov-13	11012013-001.SSF	480883.1709	1854
722284.804	4294353.343	8338	01-Nov-13	11012013-001.SSF	480884.2329	1855
722285.001	4294353.422	7877	01-Nov-13	11012013-001.SSF	480885.23	1856
722285.127	4294353.85	8233	01-Nov-13	11012013-001.SSF	480886.241	1857
722285.165	4294354.108	8328	01-Nov-13	11012013-001.SSF	480887.1631	1858
722285.153	4294354.129	7970	01-Nov-13	11012013-001.SSF	480888.2781	1859
722284.994	4294354.268	8420	01-Nov-13	11012013-001.SSF	480889.1931	1860
722284.695	4294354.675	8254	01-Nov-13	11012013-001.SSF	480890.314	1861
722284.447	4294355.058	8122	01-Nov-13	11012013-001.SSF	480891.1819	1862
722284.138	4294355.83	8206	01-Nov-13	11012013-001.SSF	480892.186	1863
722284.371	4294356.477	7646	01-Nov-13	11012013-001.SSF	480893.1489	1864
722284.425	4294356.752	7511	01-Nov-13	11012013-001.SSF	480894.321	1865
722284.367	4294356.974	7435	01-Nov-13	11012013-001.SSF	480895.179	1866
722284.263	4294357.08	7669	01-Nov-13	11012013-001.SSF	480896.1931	1867
722284.194	4294357.41	7479	01-Nov-13	11012013-001.SSF	480897.179	1868
722284.342	4294357.682	7837	01-Nov-13	11012013-001.SSF	480898.24	1869
722284.587	4294357.913	8173	01-Nov-13	11012013-001.SSF	480899.189	1870
722284.923	4294358.327	8602	01-Nov-13	11012013-001.SSF	480900.3999	1871
722284.97	4294358.474	8386	01-Nov-13	11012013-001.SSF	480901.283	1872
722284.845	4294358.411	8902	01-Nov-13	11012013-001.SSF	480902.282	1873
722284.816	4294358.404	8817	01-Nov-13	11012013-001.SSF	480903.332	1874
722284.856	4294358.393	8162	01-Nov-13	11012013-001.SSF	480904.2839	1875
722285.017	4294358.349	8588	01-Nov-13	11012013-001.SSF	480905.2041	1876
722285.149	4294358.378	8341	01-Nov-13	11012013-001.SSF	480906.229	1877
722285.1	4294358.445	8126	01-Nov-13	11012013-001.SSF	480907.1899	1878
722284.986	4294358.413	8703	01-Nov-13	11012013-001.SSF	480908.2471	1879
722285.013	4294358.352	8848	01-Nov-13	11012013-001.SSF	480909.115	1880

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.134	4294358.449	8059	01-Nov-13	11012013-001.SSF	480910.3311	1881
722285.214	4294358.528	7893	01-Nov-13	11012013-001.SSF	480911.249	1882
722285.216	4294358.772	7582	01-Nov-13	11012013-001.SSF	480912.3479	1883
722285.16	4294358.943	8202	01-Nov-13	11012013-001.SSF	480913.158	1884
722284.935	4294359.134	8094	01-Nov-13	11012013-001.SSF	480914.251	1885
722284.497	4294359.291	8100	01-Nov-13	11012013-001.SSF	480915.1289	1886
722284.213	4294359.33	7286	01-Nov-13	11012013-001.SSF	480916.269	1887
722284.042	4294359.562	7136	01-Nov-13	11012013-001.SSF	480917.1541	1888
722284.119	4294359.603	7831	01-Nov-13	11012013-001.SSF	480918.219	1889
722284.131	4294359.513	8147	01-Nov-13	11012013-001.SSF	480919.1399	1890
722284.169	4294359.49	7860	01-Nov-13	11012013-001.SSF	480920.2839	1891
722284.305	4294359.618	7631	01-Nov-13	11012013-001.SSF	480921.1531	1892
722284.236	4294359.53	8305	01-Nov-13	11012013-001.SSF	480922.1909	1893
722284.497	4294359.6	8451	01-Nov-13	11012013-001.SSF	480923.1299	1894
722284.639	4294359.642	8211	01-Nov-13	11012013-001.SSF	480924.217	1895
722284.668	4294359.439	7949	01-Nov-13	11012013-001.SSF	480925.282	1896
722284.709	4294358.716	7958	01-Nov-13	11012013-001.SSF	480926.2109	1897
722284.87	4294357.87	8564	01-Nov-13	11012013-001.SSF	480927.1919	1898
722284.998	4294357.794	8147	01-Nov-13	11012013-001.SSF	480928.2759	1899
722285.013	4294357.975	7860	01-Nov-13	11012013-001.SSF	480929.1599	1900
722285.152	4294358.025	7781	01-Nov-13	11012013-001.SSF	480930.219	1901
722285.136	4294358.069	7452	01-Nov-13	11012013-001.SSF	480931.1909	1902
722285.004	4294358.35	8092	01-Nov-13	11012013-001.SSF	480932.238	1903
722284.924	4294358.697	8466	01-Nov-13	11012013-001.SSF	480933.252	1904
722284.88	4294358.987	8535	01-Nov-13	11012013-001.SSF	480934.2749	1905
722284.822	4294359.041	7973	01-Nov-13	11012013-001.SSF	480935.073	1906
722284.849	4294359.129	8130	01-Nov-13	11012013-001.SSF	480936.2739	1907
722284.855	4294359.158	7925	01-Nov-13	11012013-001.SSF	480937.1479	1908
722284.703	4294359.178	7720	01-Nov-13	11012013-001.SSF	480938.2041	1909
722284.463	4294358.865	7545	01-Nov-13	11012013-001.SSF	480939.168	1910
722284.218	4294358.597	7341	01-Nov-13	11012013-001.SSF	480940.3149	1911
722283.877	4294358.306	7849	01-Nov-13	11012013-001.SSF	480941.1499	1912
722283.247	4294357.898	7895	01-Nov-13	11012013-001.SSF	480942.2939	1913
722282.521	4294357.521	7703	01-Nov-13	11012013-001.SSF	480943.301	1914
722281.923	4294357.035	8443	01-Nov-13	11012013-001.SSF	480944.344	1915
722281.49	4294356.827	8454	01-Nov-13	11012013-001.SSF	480945.1479	1916
722280.744	4294356.514	8325	01-Nov-13	11012013-001.SSF	480946.198	1917
722280.236	4294356.343	8523	01-Nov-13	11012013-001.SSF	480947.1599	1918
722279.737	4294356.122	8641	01-Nov-13	11012013-001.SSF	480948.3259	1919
722279.486	4294356.158	8873	01-Nov-13	11012013-001.SSF	480949.2151	1920
722279.593	4294356.032	8096	01-Nov-13	11012013-001.SSF	480950.2271	1921
722279.486	4294355.7	8319	01-Nov-13	11012013-001.SSF	480951.1279	1922
722278.944	4294355.369	8414	01-Nov-13	11012013-001.SSF	480952.22	1923
722278.407	4294354.996	8295	01-Nov-13	11012013-001.SSF	480953.22	1924
722277.97	4294354.684	8303	01-Nov-13	11012013-001.SSF	480954.2319	1925
722277.475	4294354.586	8166	01-Nov-13	11012013-001.SSF	480955.3101	1926
722277.026	4294354.253	7908	01-Nov-13	11012013-001.SSF	480956.342	1927

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722276.684	4294353.996	7471	01-Nov-13	11012013-001.SSF	480957.155	1928
722276.276	4294353.656	7600	01-Nov-13	11012013-001.SSF	480958.2329	1929
722275.666	4294353.484	7665	01-Nov-13	11012013-001.SSF	480959.0549	1930
722275.156	4294353.541	7311	01-Nov-13	11012013-001.SSF	480960.207	1931
722274.546	4294353.61	7862	01-Nov-13	11012013-001.SSF	480961.1089	1932
722274.15	4294353.193	7940	01-Nov-13	11012013-001.SSF	480962.228	1933
722273.899	4294352.884	8223	01-Nov-13	11012013-001.SSF	480963.2319	1934
722273.926	4294352.469	8061	01-Nov-13	11012013-001.SSF	480964.198	1935
722274.046	4294351.905	7504	01-Nov-13	11012013-001.SSF	480965.114	1936
722274.494	4294351.363	6913	01-Nov-13	11012013-001.SSF	480966.2529	1937
722274.781	4294351.104	7241	01-Nov-13	11012013-001.SSF	480967.1899	1938
722275.111	4294350.761	7553	01-Nov-13	11012013-001.SSF	480968.2729	1939
722275.394	4294350.318	7443	01-Nov-13	11012013-001.SSF	480969.1089	1940
722275.399	4294349.757	7502	01-Nov-13	11012013-001.SSF	480970.26	1941
722275.053	4294349.604	7677	01-Nov-13	11012013-001.SSF	480971.2319	1942
722274.968	4294349.649	7363	01-Nov-13	11012013-001.SSF	480972.093	1943
722275.064	4294349.594	7119	01-Nov-13	11012013-001.SSF	480973.074	1944
722275.289	4294349.417	7184	01-Nov-13	11012013-001.SSF	480974.166	1945
722275.807	4294349.401	7349	01-Nov-13	11012013-001.SSF	480975.1841	1946
722276.03	4294349.396	8108	01-Nov-13	11012013-001.SSF	480976.3931	1947
722276.046	4294349.382	7943	01-Nov-13	11012013-001.SSF	480977.239	1948
722276.189	4294349.381	8120	01-Nov-13	11012013-001.SSF	480978.2009	1949
722276.889	4294349.551	8175	01-Nov-13	11012013-001.SSF	480979.2109	1950
722277.499	4294349.57	7823	01-Nov-13	11012013-001.SSF	480980.198	1951
722278.155	4294349.611	7805	01-Nov-13	11012013-001.SSF	480981.1741	1952
722278.73	4294349.515	8328	01-Nov-13	11012013-001.SSF	480982.2219	1953
722278.979	4294349.47	7992	01-Nov-13	11012013-001.SSF	480983.2261	1954
722278.76	4294349.445	7930	01-Nov-13	11012013-001.SSF	480984.2429	1955
722278.549	4294349.108	8443	01-Nov-13	11012013-001.SSF	480985.1831	1956
722278.513	4294348.364	8589	01-Nov-13	11012013-001.SSF	480986.229	1957
722279.052	4294347.8	8709	01-Nov-13	11012013-001.SSF	480987.1741	1958
722279.711	4294347.52	8401	01-Nov-13	11012013-001.SSF	480988.3091	1959
722280.062	4294347.854	8228	01-Nov-13	11012013-001.SSF	480989.104	1960
722280.314	4294348.258	8243	01-Nov-13	11012013-001.SSF	480990.1731	1961
722280.439	4294348.546	8867	01-Nov-13	11012013-001.SSF	480991.0891	1962
722280.821	4294348.898	8880	01-Nov-13	11012013-001.SSF	480992.241	1963
722281.161	4294349.052	8887	01-Nov-13	11012013-001.SSF	480993.092	1964
722281.661	4294349.204	9244	01-Nov-13	11012013-001.SSF	480994.1709	1965
722282.126	4294349.477	8920	01-Nov-13	11012013-001.SSF	480995.187	1966
722282.34	4294349.705	8857	01-Nov-13	11012013-001.SSF	480996.1941	1967
722282.552	4294350.013	9017	01-Nov-13	11012013-001.SSF	480997.21	1968
722282.997	4294350.474	8559	01-Nov-13	11012013-001.SSF	480998.251	1969
722283.314	4294351.04	8535	01-Nov-13	11012013-001.SSF	480999.207	1970
722283.528	4294351.751	8663	01-Nov-13	11012013-001.SSF	481000.2339	1971
722283.642	4294352.309	8728	01-Nov-13	11012013-001.SSF	481001.103	1972
722283.669	4294352.973	8854	01-Nov-13	11012013-001.SSF	481002.3081	1973
722283.541	4294353.5	8648	01-Nov-13	11012013-001.SSF	481003.1621	1974

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722283.527	4294353.967	8622	01-Nov-13	11012013-001.SSF	481004.249	1975
722283.472	4294354.386	7880	01-Nov-13	11012013-001.SSF	481005.115	1976
722283.592	4294354.911	7537	01-Nov-13	11012013-001.SSF	481006.2661	1977
722283.71	4294355.424	7607	01-Nov-13	11012013-001.SSF	481007.1721	1978
722283.967	4294356.014	8374	01-Nov-13	11012013-001.SSF	481008.2649	1979
722284.927	4294357.238	8675	01-Nov-13	11012013-001.SSF	481010.356	1981
722285.095	4294357.524	8157	01-Nov-13	11012013-001.SSF	481011.219	1982
722285.249	4294357.846	7813	01-Nov-13	11012013-001.SSF	481012.2971	1983
722285.386	4294358.123	8020	01-Nov-13	11012013-001.SSF	481013.1431	1984
722285.483	4294358.404	7486	01-Nov-13	11012013-001.SSF	481014.176	1985
722285.429	4294358.588	7234	01-Nov-13	11012013-001.SSF	481015.0791	1986
722284.962	4294359.05	7812	01-Nov-13	11012013-001.SSF	481016.271	1987
722284.456	4294359.286	7957	01-Nov-13	11012013-001.SSF	481017.1479	1988
722284.348	4294359.756	8061	01-Nov-13	11012013-001.SSF	481018.1389	1989
722284.335	4294359.963	7564	01-Nov-13	11012013-001.SSF	481019.0659	1990
722284.143	4294359.973	7937	01-Nov-13	11012013-001.SSF	481020.134	1991
722283.846	4294359.731	7299	01-Nov-13	11012013-001.SSF	481021.134	1992
722283.553	4294359.447	7323	01-Nov-13	11012013-001.SSF	481022.1919	1993
722283.341	4294359.148	6939	01-Nov-13	11012013-001.SSF	481023.1279	1994
722283.083	4294359.006	7248	01-Nov-13	11012013-001.SSF	481024.1631	1995
722282.558	4294358.954	7549	01-Nov-13	11012013-001.SSF	481025.1819	1996
722282.035	4294358.639	7456	01-Nov-13	11012013-001.SSF	481026.196	1997
722281.962	4294358.426	7569	01-Nov-13	11012013-001.SSF	481027.231	1998
722281.904	4294358.488	8082	01-Nov-13	11012013-001.SSF	481028.2749	1999
722281.727	4294358.377	7876	01-Nov-13	11012013-001.SSF	481029.2271	2000
722281.48	4294358.136	8075	01-Nov-13	11012013-001.SSF	481030.146	2001
722281.266	4294357.758	7932	01-Nov-13	11012013-001.SSF	481031.1321	2002
722280.995	4294357.442	8032	01-Nov-13	11012013-001.SSF	481032.2949	2003
722280.688	4294357.419	7788	01-Nov-13	11012013-001.SSF	481033.1289	2004
722280.299	4294357.681	8048	01-Nov-13	11012013-001.SSF	481034.2061	2005
722279.759	4294357.895	7842	01-Nov-13	11012013-001.SSF	481035.1919	2006
722279.134	4294358.166	7703	01-Nov-13	11012013-001.SSF	481036.165	2007
722278.674	4294358.341	7933	01-Nov-13	11012013-001.SSF	481037.145	2008
722278.086	4294358.406	7815	01-Nov-13	11012013-001.SSF	481038.1899	2009
722277.774	4294358.33	7718	01-Nov-13	11012013-001.SSF	481039.1201	2010
722277.262	4294358	7889	01-Nov-13	11012013-001.SSF	481040.3149	2011
722277	4294357.954	8330	01-Nov-13	11012013-001.SSF	481041.114	2012
722277.033	4294357.734	8233	01-Nov-13	11012013-001.SSF	481042.1689	2013
722277.135	4294357.747	8591	01-Nov-13	11012013-001.SSF	481043.0879	2014
722277.259	4294358.003	8252	01-Nov-13	11012013-001.SSF	481044.2429	2015
722277.333	4294358.239	8714	01-Nov-13	11012013-001.SSF	481045.095	2016
722277.387	4294358.098	8802	01-Nov-13	11012013-001.SSF	481046.1919	2017
722276.815	4294358.268	8378	01-Nov-13	11012013-001.SSF	481047.136	2018
722276.074	4294357.955	8178	01-Nov-13	11012013-001.SSF	481048.1899	2019
722275.934	4294358.024	7982	01-Nov-13	11012013-001.SSF	481049.012	2020
722276.101	4294357.643	8082	01-Nov-13	11012013-001.SSF	481050.2351	2021
722276.163	4294357.363	7846	01-Nov-13	11012013-001.SSF	481051.1101	2022

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722276.234	4294356.815	7586	01-Nov-13	11012013-001.SSF	481052.127	2023
722275.988	4294356.441	7462	01-Nov-13	11012013-001.SSF	481053.074	2024
722275.593	4294355.792	7092	01-Nov-13	11012013-001.SSF	481054.147	2025
722275.38	4294355.49	7402	01-Nov-13	11012013-001.SSF	481055.167	2026
722274.856	4294355.157	6998	01-Nov-13	11012013-001.SSF	481056.2849	2027
722274.307	4294354.714	7544	01-Nov-13	11012013-001.SSF	481057.2051	2028
722273.966	4294354.462	7828	01-Nov-13	11012013-001.SSF	481058.156	2029
722273.712	4294354.396	7636	01-Nov-13	11012013-001.SSF	481059.0791	2030
722273.682	4294354.357	7730	01-Nov-13	11012013-001.SSF	481060.2251	2031
722273.582	4294354.56	7648	01-Nov-13	11012013-001.SSF	481061.054	2032
722273.306	4294354.635	7849	01-Nov-13	11012013-001.SSF	481062.3169	2033
722273.244	4294354.818	8038	01-Nov-13	11012013-001.SSF	481063.158	2034
722273.192	4294354.82	8316	01-Nov-13	11012013-001.SSF	481064.2209	2035
722272.975	4294354.709	8158	01-Nov-13	11012013-001.SSF	481065.22	2036
722272.61	4294354.479	8263	01-Nov-13	11012013-001.SSF	481066.24	2037
722272.243	4294354.423	7933	01-Nov-13	11012013-001.SSF	481067.156	2038
722271.833	4294354.889	7230	01-Nov-13	11012013-001.SSF	481068.208	2039
722271.608	4294355.487	7524	01-Nov-13	11012013-001.SSF	481069.0481	2040
722271.249	4294356.325	7412	01-Nov-13	11012013-001.SSF	481070.1841	2041
722271.008	4294356.962	7267	01-Nov-13	11012013-001.SSF	481071.1931	2042
722270.777	4294357.61	7852	01-Nov-13	11012013-001.SSF	481072.1589	2043
722270.694	4294358.239	7889	01-Nov-13	11012013-001.SSF	481073.176	2044
722270.841	4294358.474	7753	01-Nov-13	11012013-001.SSF	481074.2429	2045
722271.076	4294358.518	8021	01-Nov-13	11012013-001.SSF	481075.0591	2046
722271.967	4294358.352	8846	01-Nov-13	11012013-001.SSF	481076.2549	2047
722272.604	4294358.341	8433	01-Nov-13	11012013-001.SSF	481077.104	2048
722273.508	4294358.142	8044	01-Nov-13	11012013-001.SSF	481078.0979	2049
722273.975	4294357.803	8064	01-Nov-13	11012013-001.SSF	481079.0161	2050
722274.278	4294358.399	8676	01-Nov-13	11012013-001.SSF	481080.2109	2051
722274.746	4294359.342	8300	01-Nov-13	11012013-001.SSF	481081.095	2052
722274.71	4294359.914	7878	01-Nov-13	11012013-001.SSF	481082.2041	2053
722274.59	4294360.347	8339	01-Nov-13	11012013-001.SSF	481083.1389	2054
722274.507	4294360.36	8216	01-Nov-13	11012013-001.SSF	481084.2361	2055
722274.461	4294360.308	7981	01-Nov-13	11012013-001.SSF	481085.1389	2056
722274.462	4294360.25	8029	01-Nov-13	11012013-001.SSF	481086.2339	2057
722274.486	4294360.157	7396	01-Nov-13	11012013-001.SSF	481087.103	2058
722274.627	4294360.145	7670	01-Nov-13	11012013-001.SSF	481088.2439	2059
722274.744	4294360.162	8274	01-Nov-13	11012013-001.SSF	481089.1311	2060
722274.831	4294360.244	8584	01-Nov-13	11012013-001.SSF	481090.177	2061
722274.917	4294360.332	8503	01-Nov-13	11012013-001.SSF	481091.041	2062
722275.086	4294360.254	7731	01-Nov-13	11012013-001.SSF	481092.2019	2063
722275.223	4294360.277	7311	01-Nov-13	11012013-001.SSF	481093.1211	2064
722275.326	4294360.3	7360	01-Nov-13	11012013-001.SSF	481094.1709	2065
722275.466	4294360.307	7732	01-Nov-13	11012013-001.SSF	481095.1111	2066
722275.675	4294360.522	8122	01-Nov-13	11012013-001.SSF	481096.2009	2067
722275.946	4294360.576	7838	01-Nov-13	11012013-001.SSF	481097.085	2068
722276.315	4294360.524	8526	01-Nov-13	11012013-001.SSF	481098.2319	2069

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722276.702	4294360.224	8373	01-Nov-13	11012013-001.SSF	481099.1841	2070
722277.076	4294360.166	8152	01-Nov-13	11012013-001.SSF	481100.261	2071
722277.317	4294360.163	8231	01-Nov-13	11012013-001.SSF	481101.1389	2072
722277.474	4294360.385	7877	01-Nov-13	11012013-001.SSF	481102.2649	2073
722277.487	4294360.559	7843	01-Nov-13	11012013-001.SSF	481103.197	2074
722277.383	4294360.634	8124	01-Nov-13	11012013-001.SSF	481104.1799	2075
722277.333	4294360.605	8132	01-Nov-13	11012013-001.SSF	481105.1509	2076
722277.345	4294360.494	8422	01-Nov-13	11012013-001.SSF	481106.2791	2077
722277.379	4294360.389	7670	01-Nov-13	11012013-001.SSF	481107.189	2078
722277.479	4294360.411	7876	01-Nov-13	11012013-001.SSF	481108.3081	2079
722277.658	4294360.463	7678	01-Nov-13	11012013-001.SSF	481109.125	2080
722278.073	4294360.633	7491	01-Nov-13	11012013-001.SSF	481110.179	2081
722278.231	4294360.793	7799	01-Nov-13	11012013-001.SSF	481111.1531	2082
722278.673	4294361.015	7439	01-Nov-13	11012013-001.SSF	481112.2671	2083
722278.88	4294361.046	7567	01-Nov-13	11012013-001.SSF	481113.1709	2084
722278.917	4294361.063	7744	01-Nov-13	11012013-001.SSF	481114.2061	2085
722278.853	4294361.032	7926	01-Nov-13	11012013-001.SSF	481115.1179	2086
722279.012	4294360.652	7916	01-Nov-13	11012013-001.SSF	481116.2419	2087
722279.539	4294360.256	7707	01-Nov-13	11012013-001.SSF	481117.03	2088
722280.475	4294359.685	7605	01-Nov-13	11012013-001.SSF	481118.1851	2089
722281.054	4294359.425	7503	01-Nov-13	11012013-001.SSF	481119.2	2090
722281.717	4294359.33	7460	01-Nov-13	11012013-001.SSF	481120.219	2091
722282.143	4294359.711	7706	01-Nov-13	11012013-001.SSF	481121.1331	2092
722282.596	4294359.925	7905	01-Nov-13	11012013-001.SSF	481122.134	2093
722282.943	4294359.915	7386	01-Nov-13	11012013-001.SSF	481123.062	2094
722283.491	4294359.738	7680	01-Nov-13	11012013-001.SSF	481124.196	2095
722283.841	4294359.662	7800	01-Nov-13	11012013-001.SSF	481125.0339	2096
722284.584	4294359.42	7395	01-Nov-13	11012013-001.SSF	481126.2319	2097
722284.999	4294358.961	8112	01-Nov-13	11012013-001.SSF	481127.1621	2098
722285.405	4294358.257	7713	01-Nov-13	11012013-001.SSF	481128.1919	2099
722285.673	4294358.01	7293	01-Nov-13	11012013-001.SSF	481129.0139	2100
722285.996	4294357.551	7395	01-Nov-13	11012013-001.SSF	481130.0891	2101
722285.876	4294357.313	7377	01-Nov-13	11012013-001.SSF	481131.0229	2102
722285.9	4294356.788	7652	01-Nov-13	11012013-001.SSF	481132.1699	2103
722285.827	4294356.473	7754	01-Nov-13	11012013-001.SSF	481133.073	2104
722285.638	4294355.617	7984	01-Nov-13	11012013-001.SSF	481134.1321	2105
722285.357	4294354.997	8316	01-Nov-13	11012013-001.SSF	481135.01	2106
722284.996	4294354.579	8517	01-Nov-13	11012013-001.SSF	481136.187	2107
722284.84	4294354.351	8421	01-Nov-13	11012013-001.SSF	481137.1011	2108
722284.678	4294354.114	7714	01-Nov-13	11012013-001.SSF	481138.178	2109
722284.469	4294353.702	8051	01-Nov-13	11012013-001.SSF	481139.1021	2110
722284.148	4294353.124	8204	01-Nov-13	11012013-001.SSF	481140.1169	2111
722283.673	4294352.57	8087	01-Nov-13	11012013-001.SSF	481141.1201	2112
722283.433	4294351.804	8216	01-Nov-13	11012013-001.SSF	481142.1509	2113
722283.115	4294351.573	8499	01-Nov-13	11012013-001.SSF	481143.051	2114
722282.812	4294351.487	8283	01-Nov-13	11012013-001.SSF	481144.1689	2115
722282.609	4294351.428	8589	01-Nov-13	11012013-001.SSF	481145.145	2116

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722282.311	4294351.41	8356	01-Nov-13	11012013-001.SSF	481146.1411	2117
722281.807	4294351.52	8705	01-Nov-13	11012013-001.SSF	481147.0879	2118
722281.665	4294351.605	8587	01-Nov-13	11012013-001.SSF	481148.105	2119
722281.319	4294351.547	8257	01-Nov-13	11012013-001.SSF	481149.0791	2120
722281.006	4294351.269	7967	01-Nov-13	11012013-001.SSF	481150.2009	2121
722280.548	4294351.322	8224	01-Nov-13	11012013-001.SSF	481151.0359	2122
722280.144	4294351.207	8436	01-Nov-13	11012013-001.SSF	481152.2161	2123
722280.065	4294351.074	8307	01-Nov-13	11012013-001.SSF	481153.0291	2124
722279.692	4294351.023	8378	01-Nov-13	11012013-001.SSF	481154.1951	2125
722279.429	4294350.848	7952	01-Nov-13	11012013-001.SSF	481155.136	2126
722279.199	4294350.093	7796	01-Nov-13	11012013-001.SSF	481156.1421	2127
722278.796	4294349.476	7715	01-Nov-13	11012013-001.SSF	481157.1499	2128
722278.32	4294349.358	8112	01-Nov-13	11012013-001.SSF	481158.165	2129
722277.748	4294349.273	8080	01-Nov-13	11012013-001.SSF	481159.178	2130
722277.471	4294349.288	8107	01-Nov-13	11012013-001.SSF	481160.1909	2131
722277.47	4294349.348	7778	01-Nov-13	11012013-001.SSF	481161.0181	2132
722277.201	4294349.241	8095	01-Nov-13	11012013-001.SSF	481162.2529	2133
722277.002	4294348.894	8108	01-Nov-13	11012013-001.SSF	481163.1289	2134
722276.768	4294348.402	8018	01-Nov-13	11012013-001.SSF	481164.1479	2135
722276.68	4294347.937	7975	01-Nov-13	11012013-001.SSF	481165.061	2136
722276.96	4294347.624	7996	01-Nov-13	11012013-001.SSF	481166.2041	2137
722276.702	4294347.654	7977	01-Nov-13	11012013-001.SSF	481167.071	2138
722276.679	4294347.627	7727	01-Nov-13	11012013-001.SSF	481168.1499	2139
722276.671	4294347.57	8186	01-Nov-13	11012013-001.SSF	481169.1499	2140
722276.441	4294347.297	7740	01-Nov-13	11012013-001.SSF	481170.2549	2141
722276.148	4294347.061	8013	01-Nov-13	11012013-001.SSF	481171.042	2142
722275.638	4294346.381	8242	01-Nov-13	11012013-001.SSF	481172.1021	2143
722275.173	4294346.057	8514	01-Nov-13	11012013-001.SSF	481173.094	2144
722274.825	4294345.63	8621	01-Nov-13	11012013-001.SSF	481174.134	2145
722274.492	4294345.231	8554	01-Nov-13	11012013-001.SSF	481175.085	2146
722274.002	4294344.767	8517	01-Nov-13	11012013-001.SSF	481176.1289	2147
722273.465	4294344.413	8728	01-Nov-13	11012013-001.SSF	481177.1189	2148
722272.849	4294344.417	8757	01-Nov-13	11012013-001.SSF	481178.1079	2149
722272.097	4294344.938	8811	01-Nov-13	11012013-001.SSF	481179.0869	2150
722271.614	4294345.423	8781	01-Nov-13	11012013-001.SSF	481180.2351	2151
722270.946	4294345.857	8539	01-Nov-13	11012013-001.SSF	481181.1709	2152
722269.891	4294346.128	7946	01-Nov-13	11012013-001.SSF	481182.1709	2153
722268.908	4294346.45	7979	01-Nov-13	11012013-001.SSF	481183.0779	2154
722267.778	4294346.822	8261	01-Nov-13	11012013-001.SSF	481184.2251	2155
722266.977	4294347.093	8531	01-Nov-13	11012013-001.SSF	481185.093	2156
722265.983	4294347.709	7949	01-Nov-13	11012013-001.SSF	481186.2771	2157
722265.382	4294348.151	6773	01-Nov-13	11012013-001.SSF	481187.125	2158
722264.526	4294348.75	8040	01-Nov-13	11012013-001.SSF	481188.239	2159
722263.572	4294349.027	7552	01-Nov-13	11012013-001.SSF	481189.0779	2160
722262.455	4294349.42	7818	01-Nov-13	11012013-001.SSF	481190.1841	2161
722261.747	4294349.611	7758	01-Nov-13	11012013-001.SSF	481191.02	2162
722260.772	4294349.826	8053	01-Nov-13	11012013-001.SSF	481192.2649	2163

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722258.617	4294350.237	8234	01-Nov-13	11012013-001.SSF	481195.0371	2166
722257.697	4294350.75	8509	01-Nov-13	11012013-001.SSF	481196.26	2167
722257.028	4294351.101	8416	01-Nov-13	11012013-001.SSF	481197.0459	2168
722256.16	4294351.591	8184	01-Nov-13	11012013-001.SSF	481198.2141	2169
722255.625	4294351.898	8218	01-Nov-13	11012013-001.SSF	481199.145	2170
722254.748	4294352.526	7960	01-Nov-13	11012013-001.SSF	481200.2791	2171
722254.139	4294353.119	8010	01-Nov-13	11012013-001.SSF	481201.1299	2172
722253.461	4294353.162	8015	01-Nov-13	11012013-001.SSF	481202.2571	2173
722252.953	4294353.05	7884	01-Nov-13	11012013-001.SSF	481203.03	2174
722252.095	4294352.738	8237	01-Nov-13	11012013-001.SSF	481204.238	2175
722251.479	4294352.555	8068	01-Nov-13	11012013-001.SSF	481205.0769	2176
722250.679	4294352.575	8252	01-Nov-13	11012013-001.SSF	481206.1631	2177
722250.032	4294352.81	8024	01-Nov-13	11012013-001.SSF	481207.134	2178
722249.119	4294352.999	8046	01-Nov-13	11012013-001.SSF	481208.2041	2179
722248.078	4294353.489	8388	01-Nov-13	11012013-001.SSF	481209.1001	2180
722246.806	4294353.979	8498	01-Nov-13	11012013-001.SSF	481210.259	2181
722246.288	4294354.148	8628	01-Nov-13	11012013-001.SSF	481211.0471	2182
722245.717	4294354.308	8310	01-Nov-13	11012013-001.SSF	481212.3459	2183
722245.643	4294354.222	8334	01-Nov-13	11012013-001.SSF	481213.095	2184
722245.371	4294353.879	8595	01-Nov-13	11012013-001.SSF	481214.241	2185
722245.356	4294353.459	8660	01-Nov-13	11012013-001.SSF	481215.168	2186
722245.75	4294352.951	9168	01-Nov-13	11012013-001.SSF	481216.156	2187
722246.328	4294352.529	8847	01-Nov-13	11012013-001.SSF	481217.0161	2188
722247.119	4294351.888	8644	01-Nov-13	11012013-001.SSF	481218.217	2189
722247.676	4294351.741	8664	01-Nov-13	11012013-001.SSF	481219.0049	2190
722248.48	4294351.606	8594	01-Nov-13	11012013-001.SSF	481220.197	2191
722248.807	4294351.856	8411	01-Nov-13	11012013-001.SSF	481221.0271	2192
722249.996	4294351.804	8316	01-Nov-13	11012013-001.SSF	481223.134	2194
722250.902	4294351.505	8652	01-Nov-13	11012013-001.SSF	481224.208	2195
722251.431	4294351.585	8257	01-Nov-13	11012013-001.SSF	481225	2196
722251.82	4294351.204	8379	01-Nov-13	11012013-001.SSF	481226.1609	2197
722252.109	4294351.162	8088	01-Nov-13	11012013-001.SSF	481227.0549	2198
722252.678	4294350.946	7647	01-Nov-13	11012013-001.SSF	481228.188	2199
722253.383	4294350.889	8059	01-Nov-13	11012013-001.SSF	481228.9741	2200
722254.418	4294350.808	7540	01-Nov-13	11012013-001.SSF	481230.1809	2201
722254.924	4294350.434	8561	01-Nov-13	11012013-001.SSF	481231.011	2202
722255.956	4294349.995	8048	01-Nov-13	11012013-001.SSF	481232.2029	2203
722256.422	4294349.689	8397	01-Nov-13	11012013-001.SSF	481233.0891	2204
722257.446	4294349.318	8293	01-Nov-13	11012013-001.SSF	481234.219	2205
722257.979	4294349.29	8235	01-Nov-13	11012013-001.SSF	481235.0039	2206
722258.946	4294349.018	8329	01-Nov-13	11012013-001.SSF	481236.186	2207
722259.414	4294348.648	8698	01-Nov-13	11012013-001.SSF	481237.0359	2208
722259.866	4294348.342	8485	01-Nov-13	11012013-001.SSF	481238.0891	2209
722260.403	4294348.365	9303	01-Nov-13	11012013-001.SSF	481239.085	2210
722260.816	4294348.393	8555	01-Nov-13	11012013-001.SSF	481240.1819	2211

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722261.201	4294348.386	8209	01-Nov-13	11012013-001.SSF	481241.085	2212
722262.019	4294348.125	8355	01-Nov-13	11012013-001.SSF	481243.0569	2214
722262.248	4294348.014	7407	01-Nov-13	11012013-001.SSF	481244.1731	2215
722262.567	4294347.911	7384	01-Nov-13	11012013-001.SSF	481245.116	2216
722263.094	4294347.751	7566	01-Nov-13	11012013-001.SSF	481246.176	2217
722263.457	4294347.669	7428	01-Nov-13	11012013-001.SSF	481247.1221	2218
722264.016	4294347.553	7598	01-Nov-13	11012013-001.SSF	481248.1631	2219
722264.762	4294347.416	7934	01-Nov-13	11012013-001.SSF	481249.1799	2220
722265.744	4294347.513	7905	01-Nov-13	11012013-001.SSF	481250.146	2221
722266.387	4294347.288	8556	01-Nov-13	11012013-001.SSF	481251.219	2222
722267.39	4294347.178	8090	01-Nov-13	11012013-001.SSF	481252.1499	2223
722268.271	4294347.073	7783	01-Nov-13	11012013-001.SSF	481253.075	2224
722268.686	4294346.697	8015	01-Nov-13	11012013-001.SSF	481254.1499	2225
722268.664	4294346.426	7673	01-Nov-13	11012013-001.SSF	481255.0549	2226
722268.093	4294346.778	7534	01-Nov-13	11012013-001.SSF	481256.199	2227
722267.515	4294347.094	7912	01-Nov-13	11012013-001.SSF	481257.1411	2228
722266.679	4294347.227	7788	01-Nov-13	11012013-001.SSF	481258.26	2229
722266.004	4294347.444	7771	01-Nov-13	11012013-001.SSF	481259.1599	2230
722265.411	4294347.676	7978	01-Nov-13	11012013-001.SSF	481260.0359	2231
722264.958	4294347.583	8088	01-Nov-13	11012013-001.SSF	481261.0029	2232
722264.297	4294347.374	8427	01-Nov-13	11012013-001.SSF	481262.1841	2233
722264.001	4294347.164	8527	01-Nov-13	11012013-001.SSF	481263.1121	2234
722263.724	4294347.077	8801	01-Nov-13	11012013-001.SSF	481264.272	2235
722263.502	4294347.077	8423	01-Nov-13	11012013-001.SSF	481265.009	2236
722263.499	4294346.74	8660	01-Nov-13	11012013-001.SSF	481266.1079	2237
722262.924	4294346.743	8614	01-Nov-13	11012013-001.SSF	481267.0459	2238
722262.111	4294346.809	8393	01-Nov-13	11012013-001.SSF	481268.0471	2239
722261.34	4294346.893	8966	01-Nov-13	11012013-001.SSF	481268.97	2240
722260.488	4294346.693	8838	01-Nov-13	11012013-001.SSF	481270.1799	2241
722259.611	4294346.568	9186	01-Nov-13	11012013-001.SSF	481271.145	2242
722258.767	4294346.58	9157	01-Nov-13	11012013-001.SSF	481272.0371	2243
722257.925	4294346.718	8631	01-Nov-13	11012013-001.SSF	481273.0281	2244
722257.315	4294346.507	9227	01-Nov-13	11012013-001.SSF	481274.282	2245
722256.69	4294346.515	8880	01-Nov-13	11012013-001.SSF	481275.0591	2246
722255.836	4294346.666	8752	01-Nov-13	11012013-001.SSF	481276.219	2247
722255.353	4294346.745	9723	01-Nov-13	11012013-001.SSF	481277.094	2248
722254.817	4294346.899	9609	01-Nov-13	11012013-001.SSF	481278.271	2249
722254.355	4294347.03	9185	01-Nov-13	11012013-001.SSF	481279.0339	2250
722253.739	4294347.33	9066	01-Nov-13	11012013-001.SSF	481280.2771	2251
722253.325	4294347.405	8887	01-Nov-13	11012013-001.SSF	481281.0459	2252
722252.616	4294347.451	8546	01-Nov-13	11012013-001.SSF	481282.281	2253
722252.075	4294347.171	8152	01-Nov-13	11012013-001.SSF	481283.113	2254
722251.217	4294346.914	7923	01-Nov-13	11012013-001.SSF	481284.2041	2255
722250.74	4294346.61	9114	01-Nov-13	11012013-001.SSF	481285.0481	2256
722250.051	4294346.56	9124	01-Nov-13	11012013-001.SSF	481285.9929	2257
722249.247	4294346.803	8575	01-Nov-13	11012013-001.SSF	481286.9509	2258
722248.627	4294347.038	8183	01-Nov-13	11012013-001.SSF	481288.02	2259

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722246.915	4294347.408	8451	01-Nov-13	11012013-001.SSF	481290.2581	2261
722246.487	4294347.663	8324	01-Nov-13	11012013-001.SSF	481291.104	2262
722246.077	4294347.89	7832	01-Nov-13	11012013-001.SSF	481292.085	2263
722245.484	4294348.221	7555	01-Nov-13	11012013-001.SSF	481293.0439	2264
722244.751	4294348.481	7467	01-Nov-13	11012013-001.SSF	481294.0891	2265
722244.214	4294348.715	7357	01-Nov-13	11012013-001.SSF	481295.084	2266
722243.889	4294348.686	7611	01-Nov-13	11012013-001.SSF	481296.259	2267
722244.125	4294348.444	7551	01-Nov-13	11012013-001.SSF	481297.1809	2268
722244.719	4294348.248	7330	01-Nov-13	11012013-001.SSF	481298.1509	2269
722245.29	4294347.764	7498	01-Nov-13	11012013-001.SSF	481299.158	2270
722245.717	4294347.389	7142	01-Nov-13	11012013-001.SSF	481300.145	2271
722245.819	4294347.02	7692	01-Nov-13	11012013-001.SSF	481300.9231	2272
722245.638	4294346.757	7529	01-Nov-13	11012013-001.SSF	481301.998	2273
722245.59	4294346.601	7978	01-Nov-13	11012013-001.SSF	481302.9851	2274
722245.38	4294346.417	7967	01-Nov-13	11012013-001.SSF	481304.054	2275
722245.099	4294346.366	7541	01-Nov-13	11012013-001.SSF	481305.0879	2276
722244.898	4294346.874	6529	01-Nov-13	11012013-001.SSF	481306.0911	2277
722244.484	4294347.268	7183	01-Nov-13	11012013-001.SSF	481307.0581	2278
722244.139	4294347.841	7190	01-Nov-13	11012013-001.SSF	481308.105	2279
722243.528	4294348.156	7794	01-Nov-13	11012013-001.SSF	481309.166	2280
722242.911	4294348.465	8187	01-Nov-13	11012013-001.SSF	481310.176	2281
722242.476	4294348.981	8167	01-Nov-13	11012013-001.SSF	481311.052	2282
722241.839	4294349.994	8411	01-Nov-13	11012013-001.SSF	481312.043	2283
722241.52	4294350.889	7529	01-Nov-13	11012013-001.SSF	481313.009	2284
722241.464	4294351.883	6852	01-Nov-13	11012013-001.SSF	481314.0339	2285
722241.803	4294352.849	6697	01-Nov-13	11012013-001.SSF	481315.061	2286
722241.97	4294353.513	6722	01-Nov-13	11012013-001.SSF	481316.2161	2287
722241.845	4294353.887	6908	01-Nov-13	11012013-001.SSF	481317.042	2288
722241.691	4294354.019	6638	01-Nov-13	11012013-001.SSF	481318.074	2289
722241.642	4294354.002	6674	01-Nov-13	11012013-001.SSF	481319.0391	2290
722241.697	4294353.682	6964	01-Nov-13	11012013-001.SSF	481320.281	2291
722241.738	4294353.522	6527	01-Nov-13	11012013-001.SSF	481321.1919	2292
722241.758	4294353.36	6814	01-Nov-13	11012013-001.SSF	481322.1399	2293
722241.657	4294353.182	7057	01-Nov-13	11012013-001.SSF	481323.1421	2294
722241.586	4294353.046	7187	01-Nov-13	11012013-001.SSF	481324.1951	2295
722241.536	4294353	7028	01-Nov-13	11012013-001.SSF	481325.134	2296
722241.407	4294352.985	6668	01-Nov-13	11012013-001.SSF	481326.1689	2297
722241.253	4294352.994	6480	01-Nov-13	11012013-001.SSF	481326.9529	2298
722241.141	4294352.982	6083	01-Nov-13	11012013-001.SSF	481328.0869	2299
722241.114	4294352.974	5986	01-Nov-13	11012013-001.SSF	481329.0659	2300
722241.091	4294352.909	5505	01-Nov-13	11012013-001.SSF	481330.1011	2301
722241.117	4294352.828	5706	01-Nov-13	11012013-001.SSF	481330.959	2302
722241.105	4294352.788	6277	01-Nov-13	11012013-001.SSF	481332.0891	2303
722241.105	4294352.823	6343	01-Nov-13	11012013-001.SSF	481333.0029	2304
722241.113	4294353.274	5713	01-Nov-13	11012013-001.SSF	481334.05	2305
722241.088	4294354.055	5703	01-Nov-13	11012013-001.SSF	481335.145	2306

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722241.102	4294354.694	6073	01-Nov-13	11012013-001.SSF	481336.094	2307
722241.59	4294355.381	7218	01-Nov-13	11012013-001.SSF	481337.1079	2308
722242.229	4294356.165	7983	01-Nov-13	11012013-001.SSF	481338.124	2309
722243.071	4294356.628	8165	01-Nov-13	11012013-001.SSF	481339.135	2310
722243.98	4294356.913	8388	01-Nov-13	11012013-001.SSF	481340.1111	2311
722245.04	4294356.856	8385	01-Nov-13	11012013-001.SSF	481341.1121	2312
722246.205	4294356.609	9142	01-Nov-13	11012013-001.SSF	481342.1221	2313
722247.221	4294356.477	8442	01-Nov-13	11012013-001.SSF	481343.071	2314
722248.161	4294356.056	8243	01-Nov-13	11012013-001.SSF	481344.2251	2315
722248.61	4294355.987	7847	01-Nov-13	11012013-001.SSF	481345.124	2316
722249.395	4294355.998	7796	01-Nov-13	11012013-001.SSF	481346.0969	2317
722250.111	4294356	8053	01-Nov-13	11012013-001.SSF	481347.04	2318
722250.873	4294355.96	8100	01-Nov-13	11012013-001.SSF	481348.0471	2319
722251.811	4294355.777	8205	01-Nov-13	11012013-001.SSF	481349.0139	2320
722253.112	4294355.513	8529	01-Nov-13	11012013-001.SSF	481350.0959	2321
722253.933	4294355.056	8705	01-Nov-13	11012013-001.SSF	481351.073	2322
722254.959	4294354.771	8316	01-Nov-13	11012013-001.SSF	481352.261	2323
722255.669	4294354.633	8308	01-Nov-13	11012013-001.SSF	481353.0691	2324
722256.461	4294354.562	7515	01-Nov-13	11012013-001.SSF	481354.1599	2325
722257.03	4294354.576	7077	01-Nov-13	11012013-001.SSF	481355.0359	2326
722257.978	4294354.529	7491	01-Nov-13	11012013-001.SSF	481356.0969	2327
722259.783	4294354.184	7136	01-Nov-13	11012013-001.SSF	481358.1089	2329
722260.782	4294354.121	7089	01-Nov-13	11012013-001.SSF	481359.032	2330
722261.933	4294354.054	7700	01-Nov-13	11012013-001.SSF	481360.1079	2331
722262.673	4294353.859	7601	01-Nov-13	11012013-001.SSF	481360.9939	2332
722264.252	4294353.574	7313	01-Nov-13	11012013-001.SSF	481362.1079	2333
722265.073	4294353.125	7878	01-Nov-13	11012013-001.SSF	481362.9519	2334
722266.009	4294352.696	8144	01-Nov-13	11012013-001.SSF	481364.0481	2335
722266.886	4294352.424	7678	01-Nov-13	11012013-001.SSF	481365.1101	2336
722267.583	4294352.357	8121	01-Nov-13	11012013-001.SSF	481366.0259	2337
722268.481	4294352.387	7696	01-Nov-13	11012013-001.SSF	481367.0481	2338
722269.376	4294352.682	7599	01-Nov-13	11012013-001.SSF	481368.0591	2339
722270.278	4294353.074	7417	01-Nov-13	11012013-001.SSF	481369.0879	2340
722271.188	4294353.216	7322	01-Nov-13	11012013-001.SSF	481370.2539	2341
722272.05	4294353.461	7651	01-Nov-13	11012013-001.SSF	481371.186	2342
722272.74	4294353.564	7633	01-Nov-13	11012013-001.SSF	481372.1089	2343
722273.602	4294353.268	7331	01-Nov-13	11012013-001.SSF	481373.083	2344
722274.572	4294353.362	7926	01-Nov-13	11012013-001.SSF	481374.1641	2345
722275.326	4294353.549	8141	01-Nov-13	11012013-001.SSF	481375.04	2346
722276.017	4294353.82	7789	01-Nov-13	11012013-001.SSF	481376.0742	2347
722276.7	4294354.214	7884	01-Nov-13	11012013-001.SSF	481376.9761	2348
722277.414	4294354.655	7622	01-Nov-13	11012013-001.SSF	481378.124	2349
722277.897	4294354.777	8240	01-Nov-13	11012013-001.SSF	481379.0039	2350
722278.654	4294355.075	8760	01-Nov-13	11012013-001.SSF	481380.0698	2351
722279.434	4294355.459	7927	01-Nov-13	11012013-001.SSF	481381.144	2352
722280.061	4294355.893	7879	01-Nov-13	11012013-001.SSF	481382.1421	2353
722280.748	4294356.511	7792	01-Nov-13	11012013-001.SSF	481383.0308	2354

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722282.063	4294357.12	7182	01-Nov-13	11012013-001.SSF	481386.1328	2357
722282.166	4294357.235	7744	01-Nov-13	11012013-001.SSF	481386.8691	2358
722282.22	4294357.354	7446	01-Nov-13	11012013-001.SSF	481388.0532	2359
722282.198	4294357.455	7458	01-Nov-13	11012013-001.SSF	481388.8711	2360
722282.17	4294357.599	7938	01-Nov-13	11012013-001.SSF	481390.0918	2361
722282.196	4294357.697	8357	01-Nov-13	11012013-001.SSF	481390.9839	2362
722282.28	4294357.79	7768	01-Nov-13	11012013-001.SSF	481392.144	2363
722282.376	4294357.822	7669	01-Nov-13	11012013-001.SSF	481392.9741	2364
722282.697	4294357.725	7501	01-Nov-13	11012013-001.SSF	481394.1001	2365
722282.86	4294357.592	7992	01-Nov-13	11012013-001.SSF	481394.9741	2366
722283.013	4294357.568	7555	01-Nov-13	11012013-001.SSF	481396.124	2367
722283.172	4294357.594	7572	01-Nov-13	11012013-001.SSF	481396.959	2368
722283.719	4294358.178	8084	01-Nov-13	11012013-001.SSF	481398.0698	2369
722283.966	4294358.614	8012	01-Nov-13	11012013-001.SSF	481398.981	2370
722284.235	4294359.021	7964	01-Nov-13	11012013-001.SSF	481400.1489	2371
722284.447	4294359.199	7990	01-Nov-13	11012013-001.SSF	481401.0518	2372
722284.656	4294359.249	8327	01-Nov-13	11012013-001.SSF	481402.1069	2373
722284.805	4294359.223	8576	01-Nov-13	11012013-001.SSF	481402.9331	2374
722284.958	4294359.368	8356	01-Nov-13	11012013-001.SSF	481404.0679	2375
722285.118	4294359.454	8030	01-Nov-13	11012013-001.SSF	481405.0552	2376
722285.157	4294359.62	7547	01-Nov-13	11012013-001.SSF	481406.0479	2377
722285.481	4294359.472	7627	01-Nov-13	11012013-001.SSF	481406.9248	2378
722285.671	4294359.15	7140	01-Nov-13	11012013-001.SSF	481408.0942	2379
722285.674	4294359.12	7466	01-Nov-13	11012013-001.SSF	481408.9189	2380
722285.575	4294359.226	7567	01-Nov-13	11012013-001.SSF	481410.0752	2381
722285.514	4294359.255	7826	01-Nov-13	11012013-001.SSF	481411.0332	2382
722285.46	4294359.295	7297	01-Nov-13	11012013-001.SSF	481412.1162	2383
722285.422	4294359.329	7794	01-Nov-13	11012013-001.SSF	481412.9922	2384
722285.363	4294359.365	7632	01-Nov-13	11012013-001.SSF	481414.0752	2385
722285.33	4294359.393	7750	01-Nov-13	11012013-001.SSF	481415.0352	2386
722285.269	4294359.457	7524	01-Nov-13	11012013-001.SSF	481416.0889	2387
722285.125	4294359.488	7727	01-Nov-13	11012013-001.SSF	481416.9082	2388
722284.982	4294359.422	7616	01-Nov-13	11012013-001.SSF	481418.1001	2389
722284.888	4294359.508	7329	01-Nov-13	11012013-001.SSF	481418.9761	2390
722284.939	4294359.427	7775	01-Nov-13	11012013-001.SSF	481420.1138	2391
722284.972	4294359.39	7576	01-Nov-13	11012013-001.SSF	481420.9189	2392
722285.025	4294359.348	7809	01-Nov-13	11012013-001.SSF	481422.1211	2393
722284.918	4294359.361	8315	01-Nov-13	11012013-001.SSF	481422.9219	2394
722284.7	4294359.473	7812	01-Nov-13	11012013-001.SSF	481424.064	2395
722284.753	4294359.452	7972	01-Nov-13	11012013-001.SSF	481425.0332	2396
722285.148	4294359.463	8046	01-Nov-13	11012013-001.SSF	481426.0269	2397
722285.298	4294359.546	8195	01-Nov-13	11012013-001.SSF	481427.0239	2398
722285.41	4294359.57	7949	01-Nov-13	11012013-001.SSF	481428.0449	2399
722285.462	4294359.585	7582	01-Nov-13	11012013-001.SSF	481429.0142	2400
722285.612	4294359.574	7344	01-Nov-13	11012013-001.SSF	481430.1602	2401

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.713	4294359.623	7303	01-Nov-13	11012013-001.SSF	481431.0249	2402
722286.031	4294359.545	7520	01-Nov-13	11012013-001.SSF	481432.1338	2403
722286.083	4294359.517	7485	01-Nov-13	11012013-001.SSF	481432.957	2404
722285.916	4294359.711	7698	01-Nov-13	11012013-001.SSF	481434.0078	2405
722285.859	4294359.842	7517	01-Nov-13	11012013-001.SSF	481434.9292	2406
722285.787	4294360.068	7581	01-Nov-13	11012013-001.SSF	481436.0771	2407
722285.61	4294360.173	7954	01-Nov-13	11012013-001.SSF	481437.042	2408
722285.788	4294360.054	7714	01-Nov-13	11012013-001.SSF	481438.1611	2409
722285.769	4294359.952	8134	01-Nov-13	11012013-001.SSF	481439.02	2410
722285.66	4294359.941	7875	01-Nov-13	11012013-001.SSF	481440.0991	2411
722285.287	4294360.135	7715	01-Nov-13	11012013-001.SSF	481440.9829	2412
722285.673	4294360.064	7579	01-Nov-13	11012013-001.SSF	481442.0352	2413
722285.938	4294359.97	7391	01-Nov-13	11012013-001.SSF	481442.9922	2414
722286.252	4294360.102	7457	01-Nov-13	11012013-001.SSF	481444.124	2415
722286.27	4294360.238	7554	01-Nov-13	11012013-001.SSF	481445.0928	2416
722286.272	4294360.327	7767	01-Nov-13	11012013-001.SSF	481446.1709	2417
722286.145	4294360.401	7616	01-Nov-13	11012013-001.SSF	481447.002	2418
722286.075	4294360.258	7134	01-Nov-13	11012013-001.SSF	481448.146	2419
722286.182	4294360.214	7665	01-Nov-13	11012013-001.SSF	481448.959	2420
722286.22	4294360.234	7739	01-Nov-13	11012013-001.SSF	481450.1729	2421
722286.227	4294360.145	7383	01-Nov-13	11012013-001.SSF	481451.0542	2422
722286.101	4294360.112	8218	01-Nov-13	11012013-001.SSF	481452.0562	2423
722285.893	4294359.919	8380	01-Nov-13	11012013-001.SSF	481453.0532	2424
722285.798	4294359.772	7841	01-Nov-13	11012013-001.SSF	481454.0371	2425
722285.814	4294359.936	8190	01-Nov-13	11012013-001.SSF	481455.0171	2426
722285.862	4294359.981	8035	01-Nov-13	11012013-001.SSF	481456.0122	2427
722285.732	4294359.756	7707	01-Nov-13	11012013-001.SSF	481456.8701	2428
722285.507	4294359.601	7530	01-Nov-13	11012013-001.SSF	481457.9951	2429
722285.482	4294359.416	7453	01-Nov-13	11012013-001.SSF	481458.8672	2430
722285.126	4294359.256	7987	01-Nov-13	11012013-001.SSF	481460.0352	2431
722284.757	4294359.256	7965	01-Nov-13	11012013-001.SSF	481460.9438	2432
722284.985	4294358.76	8148	01-Nov-13	11012013-001.SSF	481462.0928	2433
722285.081	4294358.388	8220	01-Nov-13	11012013-001.SSF	481462.9438	2434
722284.946	4294358.197	8134	01-Nov-13	11012013-001.SSF	481464.0308	2435
722284.729	4294358.215	8250	01-Nov-13	11012013-001.SSF	481464.939	2436
722284.517	4294358.224	8323	01-Nov-13	11012013-001.SSF	481466.0859	2437
722284.427	4294358.39	8634	01-Nov-13	11012013-001.SSF	481466.9512	2438
722284.424	4294358.541	8021	01-Nov-13	11012013-001.SSF	481468.124	2439
722284.433	4294358.655	7632	01-Nov-13	11012013-001.SSF	481468.9082	2440
722284.518	4294358.817	8200	01-Nov-13	11012013-001.SSF	481470.0342	2441
722284.43	4294358.666	8220	01-Nov-13	11012013-001.SSF	481470.9312	2442
722284.247	4294358.614	7596	01-Nov-13	11012013-001.SSF	481472.106	2443
722284.043	4294358.567	7880	01-Nov-13	11012013-001.SSF	481472.9722	2444
722283.91	4294358.519	8002	01-Nov-13	11012013-001.SSF	481473.9868	2445
722283.891	4294358.522	7824	01-Nov-13	11012013-001.SSF	481474.9722	2446
722283.785	4294358.547	7342	01-Nov-13	11012013-001.SSF	481476.9912	2448
722283.556	4294358.536	7502	01-Nov-13	11012013-001.SSF	481478.978	2450

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722283.468	4294358.526	7595	01-Nov-13	11012013-001.SSF	481479.98	2451
722283.37	4294358.468	7692	01-Nov-13	11012013-001.SSF	481480.9492	2452
722283.374	4294358.475	7229	01-Nov-13	11012013-001.SSF	481482.1611	2453
722283.316	4294358.426	7239	01-Nov-13	11012013-001.SSF	481482.9531	2454
722283.259	4294358.434	7432	01-Nov-13	11012013-001.SSF	481484.0518	2455
722283.262	4294358.446	7795	01-Nov-13	11012013-001.SSF	481484.9541	2456
722283.284	4294358.472	7685	01-Nov-13	11012013-001.SSF	481486.0361	2457
722283.267	4294358.464	8342	01-Nov-13	11012013-001.SSF	481487.0532	2458
722283.264	4294358.401	8022	01-Nov-13	11012013-001.SSF	481487.9868	2459
722283.26	4294358.391	7782	01-Nov-13	11012013-001.SSF	481488.9419	2460
722283.261	4294358.366	7782	01-Nov-13	11012013-001.SSF	481490.0708	2461
722283.244	4294358.374	8045	01-Nov-13	11012013-001.SSF	481490.9839	2462
722283.137	4294358.361	8448	01-Nov-13	11012013-001.SSF	481492.0552	2463
722283.08	4294358.397	8637	01-Nov-13	11012013-001.SSF	481492.9858	2464
722283.071	4294358.406	8053	01-Nov-13	11012013-001.SSF	481494.0742	2465
722283.083	4294358.525	8467	01-Nov-13	11012013-001.SSF	481494.9912	2466
722283.048	4294358.518	8573	01-Nov-13	11012013-001.SSF	481496.0122	2467
722283.069	4294358.506	8535	01-Nov-13	11012013-001.SSF	481496.9888	2468
722283.091	4294358.585	8535	01-Nov-13	11012013-001.SSF	481498.002	2469
722282.986	4294358.572	8686	01-Nov-13	11012013-001.SSF	481498.8462	2470
722282.788	4294358.462	8433	01-Nov-13	11012013-001.SSF	481500.043	2471
722282.557	4294358.379	7646	01-Nov-13	11012013-001.SSF	481500.9312	2472
722282.475	4294358.362	7338	01-Nov-13	11012013-001.SSF	481501.9878	2473
722282.472	4294358.349	7405	01-Nov-13	11012013-001.SSF	481502.9312	2474
722282.49	4294358.323	7308	01-Nov-13	11012013-001.SSF	481504.0449	2475
722282.58	4294358.251	7118	01-Nov-13	11012013-001.SSF	481504.9268	2476
722282.647	4294358.203	7626	01-Nov-13	11012013-001.SSF	481506.1089	2477
722282.737	4294358.201	7717	01-Nov-13	11012013-001.SSF	481506.9268	2478
722282.795	4294358.296	7461	01-Nov-13	11012013-001.SSF	481508.043	2479
722282.746	4294358.399	7309	01-Nov-13	11012013-001.SSF	481508.9829	2480
722282.952	4294358.22	7614	01-Nov-13	11012013-001.SSF	481510.1001	2481
722283.002	4294358.156	7852	01-Nov-13	11012013-001.SSF	481510.9028	2482
722282.984	4294358.219	7822	01-Nov-13	11012013-001.SSF	481512.1328	2483
722283.081	4294358.207	7707	01-Nov-13	11012013-001.SSF	481512.9351	2484
722283.184	4294358.184	8137	01-Nov-13	11012013-001.SSF	481514.061	2485
722283.316	4294358.21	7532	01-Nov-13	11012013-001.SSF	481515.002	2486
722283.366	4294358.235	8129	01-Nov-13	11012013-001.SSF	481516.0742	2487
722283.318	4294358.222	8120	01-Nov-13	11012013-001.SSF	481516.98	2488
722283.269	4294358.207	7605	01-Nov-13	11012013-001.SSF	481518.0732	2489
722283.263	4294358.208	7578	01-Nov-13	11012013-001.SSF	481519.0229	2490
722283.238	4294358.154	7682	01-Nov-13	11012013-001.SSF	481520.019	2491
722283.241	4294358.197	8064	01-Nov-13	11012013-001.SSF	481521.0659	2492
722283.295	4294358.234	7956	01-Nov-13	11012013-001.SSF	481521.9971	2493
722283.298	4294358.227	8090	01-Nov-13	11012013-001.SSF	481522.856	2494
722283.284	4294358.233	8345	01-Nov-13	11012013-001.SSF	481523.9932	2495
722283.271	4294358.235	8617	01-Nov-13	11012013-001.SSF	481524.8921	2496
722283.235	4294358.178	8514	01-Nov-13	11012013-001.SSF	481526.0332	2497

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722283.239	4294358.085	8292	01-Nov-13	11012013-001.SSF	481526.874	2498
722283.23	4294358.038	7851	01-Nov-13	11012013-001.SSF	481527.917	2499
722283.215	4294358.008	7926	01-Nov-13	11012013-001.SSF	481528.8809	2500
722283.159	4294358.035	8441	01-Nov-13	11012013-001.SSF	481529.9658	2501
722283.133	4294357.971	8310	01-Nov-13	11012013-001.SSF	481530.8799	2502
722283.132	4294357.936	8177	01-Nov-13	11012013-001.SSF	481531.9492	2503
722283.071	4294357.916	8027	01-Nov-13	11012013-001.SSF	481532.9141	2504
722282.985	4294358.001	7920	01-Nov-13	11012013-001.SSF	481534.0151	2505
722282.983	4294358.029	8092	01-Nov-13	11012013-001.SSF	481534.876	2506
722282.972	4294357.986	7837	01-Nov-13	11012013-001.SSF	481536.0581	2507
722282.977	4294357.971	7633	01-Nov-13	11012013-001.SSF	481536.8809	2508
722282.964	4294357.972	7683	01-Nov-13	11012013-001.SSF	481537.98	2509
722282.963	4294357.941	8192	01-Nov-13	11012013-001.SSF	481538.96	2510
722282.965	4294358.017	8073	01-Nov-13	11012013-001.SSF	481540.021	2511
722282.928	4294358.037	8081	01-Nov-13	11012013-001.SSF	481540.9819	2512
722282.97	4294358	8048	01-Nov-13	11012013-001.SSF	481542.0239	2513
722282.996	4294357.894	7467	01-Nov-13	11012013-001.SSF	481542.9219	2514
722282.931	4294358.003	7672	01-Nov-13	11012013-001.SSF	481544.0278	2515
722282.761	4294358.101	7563	01-Nov-13	11012013-001.SSF	481544.936	2516
722282.721	4294358.186	7352	01-Nov-13	11012013-001.SSF	481545.9902	2517
722282.704	4294358.101	7098	01-Nov-13	11012013-001.SSF	481546.9189	2518
722282.745	4294357.988	8117	01-Nov-13	11012013-001.SSF	481547.9619	2519
722282.633	4294358.194	7918	01-Nov-13	11012013-001.SSF	481548.9341	2520
722282.495	4294358.273	7454	01-Nov-13	11012013-001.SSF	481550.1211	2521
722282.471	4294358.247	7718	01-Nov-13	11012013-001.SSF	481550.9321	2522
722282.511	4294358.261	8046	01-Nov-13	11012013-001.SSF	481552.0469	2523
722282.539	4294358.291	7841	01-Nov-13	11012013-001.SSF	481552.978	2524
722282.653	4294358.153	7688	01-Nov-13	11012013-001.SSF	481554.0991	2525
722282.713	4294358.082	7789	01-Nov-13	11012013-001.SSF	481554.918	2526
722282.732	4294358.067	7321	01-Nov-13	11012013-001.SSF	481556.0498	2527
722282.695	4294358.283	7965	01-Nov-13	11012013-001.SSF	481556.8662	2528
722282.71	4294358.465	7871	01-Nov-13	11012013-001.SSF	481557.9741	2529
722282.728	4294358.482	7765	01-Nov-13	11012013-001.SSF	481558.875	2530
722282.706	4294358.468	7772	01-Nov-13	11012013-001.SSF	481559.9648	2531
722282.765	4294358.417	7814	01-Nov-13	11012013-001.SSF	481560.894	2532
722282.822	4294358.453	8655	01-Nov-13	11012013-001.SSF	481562.064	2533
722282.787	4294358.622	8273	01-Nov-13	11012013-001.SSF	481562.9502	2534
722282.715	4294358.708	8111	01-Nov-13	11012013-001.SSF	481564.0249	2535
722282.75	4294358.634	7915	01-Nov-13	11012013-001.SSF	481564.894	2536
722282.858	4294358.628	8037	01-Nov-13	11012013-001.SSF	481565.9951	2537
722282.874	4294358.612	7633	01-Nov-13	11012013-001.SSF	481566.9072	2538
722282.897	4294358.606	7496	01-Nov-13	11012013-001.SSF	481568.0332	2539
722282.902	4294358.591	7606	01-Nov-13	11012013-001.SSF	481568.8252	2540
722282.913	4294358.557	7376	01-Nov-13	11012013-001.SSF	481570.1182	2541
722282.904	4294358.545	7854	01-Nov-13	11012013-001.SSF	481570.9072	2542
722283.031	4294358.75	7267	01-Nov-13	11012013-001.SSF	481572.0908	2543
722283.036	4294358.925	8235	01-Nov-13	11012013-001.SSF	481572.8862	2544

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722283.048	4294358.917	8540	01-Nov-13	11012013-001.SSF	481574.062	2545
722282.942	4294358.801	8621	01-Nov-13	11012013-001.SSF	481575.0068	2546
722282.902	4294358.721	8442	01-Nov-13	11012013-001.SSF	481576.106	2547
722282.92	4294358.726	8873	01-Nov-13	11012013-001.SSF	481577	2548
722282.899	4294358.739	8463	01-Nov-13	11012013-001.SSF	481578.0581	2549
722283.073	4294358.829	7941	01-Nov-13	11012013-001.SSF	481579.019	2550
722283.158	4294358.881	8051	01-Nov-13	11012013-001.SSF	481580.1499	2551
722283.14	4294358.917	7926	01-Nov-13	11012013-001.SSF	481580.9258	2552
722283.13	4294358.924	8306	01-Nov-13	11012013-001.SSF	481582.1099	2553
722283.112	4294358.944	8249	01-Nov-13	11012013-001.SSF	481582.9229	2554
722283.082	4294358.896	8083	01-Nov-13	11012013-001.SSF	481584.0869	2555
722283.068	4294358.87	8214	01-Nov-13	11012013-001.SSF	481584.9951	2556
722283.043	4294358.864	8212	01-Nov-13	11012013-001.SSF	481586.0752	2557
722283.011	4294358.848	8309	01-Nov-13	11012013-001.SSF	481586.918	2558
722282.962	4294358.818	8859	01-Nov-13	11012013-001.SSF	481588.0142	2559
722282.926	4294358.794	8823	01-Nov-13	11012013-001.SSF	481588.958	2560
722282.903	4294358.785	8390	01-Nov-13	11012013-001.SSF	481589.9868	2561
722282.899	4294358.806	8169	01-Nov-13	11012013-001.SSF	481590.9561	2562
722282.868	4294358.814	7730	01-Nov-13	11012013-001.SSF	481592.0161	2563
722282.844	4294358.778	7993	01-Nov-13	11012013-001.SSF	481592.8379	2564
722282.865	4294359.026	8006	01-Nov-13	11012013-001.SSF	481593.9629	2565
722282.823	4294359.282	8261	01-Nov-13	11012013-001.SSF	481594.957	2566
722282.712	4294359.465	8089	01-Nov-13	11012013-001.SSF	481596.0029	2567
722282.605	4294359.504	8337	01-Nov-13	11012013-001.SSF	481596.9922	2568
722282.472	4294359.561	8080	01-Nov-13	11012013-001.SSF	481598.064	2569
722282.389	4294359.583	7522	01-Nov-13	11012013-001.SSF	481598.8848	2570
722282.305	4294359.605	8049	01-Nov-13	11012013-001.SSF	481599.9829	2571
722282.381	4294359.489	8030	01-Nov-13	11012013-001.SSF	481600.8398	2572
722282.237	4294359.388	7997	01-Nov-13	11012013-001.SSF	481601.9199	2573
722282.162	4294359.288	7963	01-Nov-13	11012013-001.SSF	481602.8379	2574
722282.091	4294359.195	7869	01-Nov-13	11012013-001.SSF	481603.938	2575
722282.164	4294359.061	7809	01-Nov-13	11012013-001.SSF	481604.8999	2576
722282.361	4294359.163	8007	01-Nov-13	11012013-001.SSF	481605.9629	2577
722282.61	4294359.424	7924	01-Nov-13	11012013-001.SSF	481606.9458	2578
722282.919	4294359.581	8177	01-Nov-13	11012013-001.SSF	481607.9419	2579
722283.043	4294359.64	7937	01-Nov-13	11012013-001.SSF	481608.8862	2580
722283.598	4294359.674	8214	01-Nov-13	11012013-001.SSF	481609.9648	2581
722283.448	4294360.243	8108	01-Nov-13	11012013-001.SSF	481610.8281	2582
722283.75	4294360.866	8738	01-Nov-13	11012013-001.SSF	481611.9541	2583
722284.41	4294361.47	8223	01-Nov-13	11012013-001.SSF	481612.8169	2584
722285.238	4294362.023	8285	01-Nov-13	11012013-001.SSF	481613.9219	2585
722285.811	4294362.378	8305	01-Nov-13	11012013-001.SSF	481614.8872	2586
722286.322	4294362.467	8077	01-Nov-13	11012013-001.SSF	481616.0361	2587
722286.641	4294362.614	8075	01-Nov-13	11012013-001.SSF	481616.9331	2588
722287.099	4294362.781	8787	01-Nov-13	11012013-001.SSF	481617.938	2589
722287.457	4294362.958	9540	01-Nov-13	11012013-001.SSF	481618.9409	2590
722287.746	4294362.982	8944	01-Nov-13	11012013-001.SSF	481619.98	2591

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.678	4294362.92	8766	01-Nov-13	11012013-001.SSF	481620.9009	2592
722287.965	4294362.801	8553	01-Nov-13	11012013-001.SSF	481621.8799	2593
722288.267	4294362.736	8591	01-Nov-13	11012013-001.SSF	481622.8442	2594
722288.81	4294363.261	8980	01-Nov-13	11012013-001.SSF	481623.9282	2595
722289.393	4294363.541	8823	01-Nov-13	11012013-001.SSF	481624.873	2596
722290.17	4294364.028	8901	01-Nov-13	11012013-001.SSF	481625.9619	2597
722291.013	4294364.326	8741	01-Nov-13	11012013-001.SSF	481626.8462	2598
722291.575	4294364.412	8359	01-Nov-13	11012013-001.SSF	481627.9839	2599
722292.027	4294364.293	8107	01-Nov-13	11012013-001.SSF	481628.937	2600
722292.75	4294364.538	8295	01-Nov-13	11012013-001.SSF	481629.938	2601
722293.334	4294364.522	8386	01-Nov-13	11012013-001.SSF	481630.938	2602
722293.826	4294364.664	8392	01-Nov-13	11012013-001.SSF	481631.9468	2603
722294.11	4294364.756	8470	01-Nov-13	11012013-001.SSF	481632.9072	2604
722294.377	4294364.716	8447	01-Nov-13	11012013-001.SSF	481633.9839	2605
722294.869	4294364.91	8591	01-Nov-13	11012013-001.SSF	481634.8481	2606
722295.385	4294365.14	8470	01-Nov-13	11012013-001.SSF	481636.0068	2607
722295.77	4294365.41	8529	01-Nov-13	11012013-001.SSF	481636.8481	2608
722296.057	4294365.794	8368	01-Nov-13	11012013-001.SSF	481637.9521	2609
722296.301	4294365.9	8224	01-Nov-13	11012013-001.SSF	481638.8931	2610
722296.547	4294365.959	7746	01-Nov-13	11012013-001.SSF	481639.979	2611
722296.627	4294366.389	8400	01-Nov-13	11012013-001.SSF	481640.8389	2612
722297.072	4294366.772	8310	01-Nov-13	11012013-001.SSF	481641.9448	2613
722297.174	4294366.981	8364	01-Nov-13	11012013-001.SSF	481642.8418	2614
722297.263	4294367.133	8619	01-Nov-13	11012013-001.SSF	481643.939	2615
722297.265	4294367.211	7856	01-Nov-13	11012013-001.SSF	481644.9658	2616
722297.288	4294367.412	8026	01-Nov-13	11012013-001.SSF	481645.9712	2617
722297.339	4294367.489	7650	01-Nov-13	11012013-001.SSF	481646.8989	2618
722297.389	4294367.707	8218	01-Nov-13	11012013-001.SSF	481647.9258	2619
722297.448	4294367.809	8470	01-Nov-13	11012013-001.SSF	481648.9229	2620
722297.491	4294368	8252	01-Nov-13	11012013-001.SSF	481649.9561	2621
722297.521	4294368.134	7994	01-Nov-13	11012013-001.SSF	481650.7681	2622
722297.564	4294368.251	8096	01-Nov-13	11012013-001.SSF	481651.9941	2623
722297.556	4294368.307	8244	01-Nov-13	11012013-001.SSF	481652.7998	2624
722297.517	4294368.362	7952	01-Nov-13	11012013-001.SSF	481653.877	2625
722297.512	4294368.361	8051	01-Nov-13	11012013-001.SSF	481654.769	2626
722297.486	4294368.36	8076	01-Nov-13	11012013-001.SSF	481655.9292	2627
722297.463	4294368.376	8022	01-Nov-13	11012013-001.SSF	481656.813	2628
722297.452	4294368.39	8112	01-Nov-13	11012013-001.SSF	481657.9009	2629
722297.428	4294368.414	8906	01-Nov-13	11012013-001.SSF	481658.8701	2630
722297.432	4294368.464	8729	01-Nov-13	11012013-001.SSF	481659.9492	2631
722297.423	4294368.469	9163	01-Nov-13	11012013-001.SSF	481660.814	2632
722297.47	4294368.48	8964	01-Nov-13	11012013-001.SSF	481661.9141	2633
722297.53	4294368.473	8679	01-Nov-13	11012013-001.SSF	481662.8242	2634
722297.585	4294368.608	8437	01-Nov-13	11012013-001.SSF	481663.9268	2635
722297.621	4294368.704	8466	01-Nov-13	11012013-001.SSF	481664.8271	2636
722297.686	4294368.687	8272	01-Nov-13	11012013-001.SSF	481666.0962	2637
722297.729	4294368.705	8073	01-Nov-13	11012013-001.SSF	481666.8882	2638

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722297.779	4294368.738	8516	01-Nov-13	11012013-001.SSF	481667.8989	2639
722297.797	4294368.816	8390	01-Nov-13	11012013-001.SSF	481668.7998	2640
722298.113	4294369.009	8589	01-Nov-13	11012013-001.SSF	481669.9492	2641
722298.122	4294368.992	8446	01-Nov-13	11012013-001.SSF	481670.7969	2642
722298.114	4294369.046	7998	01-Nov-13	11012013-001.SSF	481671.8608	2643
722298.321	4294369.208	7971	01-Nov-13	11012013-001.SSF	481672.8599	2644
722298.685	4294369.126	7791	01-Nov-13	11012013-001.SSF	481673.8828	2645
722298.97	4294369.024	7705	01-Nov-13	11012013-001.SSF	481674.7852	2646
722299.351	4294369.111	6974	01-Nov-13	11012013-001.SSF	481675.9038	2647
722299.713	4294369.598	6623	01-Nov-13	11012013-001.SSF	481676.8281	2648
722300.226	4294370.111	7333	01-Nov-13	11012013-001.SSF	481677.9331	2649
722300.682	4294370.442	7492	01-Nov-13	11012013-001.SSF	481678.9048	2650
722300.993	4294370.475	7514	01-Nov-13	11012013-001.SSF	481679.9141	2651
722301.324	4294370.364	7556	01-Nov-13	11012013-001.SSF	481680.9219	2652
722301.782	4294370.529	7378	01-Nov-13	11012013-001.SSF	481681.9639	2653
722302.293	4294370.675	7202	01-Nov-13	11012013-001.SSF	481682.8701	2654
722302.721	4294371.095	7411	01-Nov-13	11012013-001.SSF	481683.9531	2655
722303.323	4294371.573	7394	01-Nov-13	11012013-001.SSF	481684.854	2656
722303.624	4294371.851	7204	01-Nov-13	11012013-001.SSF	481686.0869	2657
722303.679	4294371.891	6744	01-Nov-13	11012013-001.SSF	481686.855	2658
722303.739	4294371.869	6456	01-Nov-13	11012013-001.SSF	481687.9248	2659
722303.731	4294371.838	6481	01-Nov-13	11012013-001.SSF	481688.8911	2660
722303.732	4294371.771	6158	01-Nov-13	11012013-001.SSF	481689.8901	2661
722303.745	4294371.778	6336	01-Nov-13	11012013-001.SSF	481690.9302	2662
722303.733	4294371.773	6301	01-Nov-13	11012013-001.SSF	481691.9302	2663
722303.729	4294371.765	6184	01-Nov-13	11012013-001.SSF	481692.8521	2664
722303.729	4294371.644	6951	01-Nov-13	11012013-001.SSF	481693.9961	2665
722303.626	4294371.569	7165	01-Nov-13	11012013-001.SSF	481694.8809	2666
722303.641	4294371.268	7023	01-Nov-13	11012013-001.SSF	481695.877	2667
722303.374	4294371.146	7220	01-Nov-13	11012013-001.SSF	481696.8271	2668
722302.957	4294371.146	7031	01-Nov-13	11012013-001.SSF	481697.9248	2669
722302.438	4294371.393	7202	01-Nov-13	11012013-001.SSF	481698.7988	2670
722301.972	4294372.009	7126	01-Nov-13	11012013-001.SSF	481699.8818	2671
722301.817	4294372.521	6753	01-Nov-13	11012013-001.SSF	481700.9009	2672
722301.694	4294372.872	6513	01-Nov-13	11012013-001.SSF	481701.9458	2673
722301.788	4294373.078	6701	01-Nov-13	11012013-001.SSF	481702.8481	2674
722302.157	4294373.33	6049	01-Nov-13	11012013-001.SSF	481704.0078	2675
722302.628	4294373.609	5855	01-Nov-13	11012013-001.SSF	481704.8892	2676
722303.03	4294373.832	6278	01-Nov-13	11012013-001.SSF	481705.8838	2677
722303.481	4294374.049	6404	01-Nov-13	11012013-001.SSF	481706.8042	2678
722304.074	4294374.629	6047	01-Nov-13	11012013-001.SSF	481707.8799	2679
722304.238	4294375.279	6304	01-Nov-13	11012013-001.SSF	481708.7578	2680
722304.163	4294375.852	6216	01-Nov-13	11012013-001.SSF	481709.9111	2681
722303.605	4294376.309	5919	01-Nov-13	11012013-001.SSF	481710.9248	2682
722302.807	4294376.27	5782	01-Nov-13	11012013-001.SSF	481711.9238	2683
722302.365	4294376.119	5776	01-Nov-13	11012013-001.SSF	481712.8271	2684
722301.799	4294376.038	6880	01-Nov-13	11012013-001.SSF	481713.9468	2685

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722301.535	4294375.867	6862	01-Nov-13	11012013-001.SSF	481714.8442	2686
722301.372	4294375.824	6515	01-Nov-13	11012013-001.SSF	481715.812	2687
722301.279	4294375.765	6154	01-Nov-13	11012013-001.SSF	481716.8032	2688
722301.467	4294375.685	6319	01-Nov-13	11012013-001.SSF	481717.814	2689
722301.905	4294375.572	6240	01-Nov-13	11012013-001.SSF	481718.7778	2690
722302.19	4294375.532	6622	01-Nov-13	11012013-001.SSF	481719.8481	2691
722302.353	4294375.51	6635	01-Nov-13	11012013-001.SSF	481720.7832	2692
722302.417	4294375.543	6777	01-Nov-13	11012013-001.SSF	481721.8892	2693
722302.397	4294375.492	6654	01-Nov-13	11012013-001.SSF	481722.8428	2694
722302.255	4294375.475	6173	01-Nov-13	11012013-001.SSF	481723.8931	2695
722302.329	4294375.405	6345	01-Nov-13	11012013-001.SSF	481724.854	2696
722302.404	4294375.355	5766	01-Nov-13	11012013-001.SSF	481725.8672	2697
722302.342	4294375.21	5921	01-Nov-13	11012013-001.SSF	481726.7612	2698
722302.318	4294375.236	6263	01-Nov-13	11012013-001.SSF	481727.8828	2699
722302.309	4294375.277	6920	01-Nov-13	11012013-001.SSF	481728.7842	2700
722302.309	4294375.36	6442	01-Nov-13	11012013-001.SSF	481729.8828	2701
722302.283	4294375.433	6421	01-Nov-13	11012013-001.SSF	481730.7891	2702
722302.256	4294375.484	6747	01-Nov-13	11012013-001.SSF	481731.8242	2703
722302.243	4294375.457	7110	01-Nov-13	11012013-001.SSF	481732.8599	2704
722302.246	4294375.471	6519	01-Nov-13	11012013-001.SSF	481733.8198	2705
722302.207	4294375.456	6442	01-Nov-13	11012013-001.SSF	481734.8271	2706
722301.862	4294375.345	6248	01-Nov-13	11012013-001.SSF	481735.8472	2707
722301.217	4294374.83	7219	01-Nov-13	11012013-001.SSF	481736.8032	2708
722300.512	4294374.425	6806	01-Nov-13	11012013-001.SSF	481737.8042	2709
722299.861	4294374.045	7031	01-Nov-13	11012013-001.SSF	481738.7432	2710
722299.155	4294373.596	6640	01-Nov-13	11012013-001.SSF	481739.8638	2711
722298.627	4294373.262	6975	01-Nov-13	11012013-001.SSF	481740.8921	2712
722298.23	4294373.028	6855	01-Nov-13	11012013-001.SSF	481741.9092	2713
722297.762	4294372.694	6669	01-Nov-13	11012013-001.SSF	481742.7729	2714
722296.989	4294372.336	6443	01-Nov-13	11012013-001.SSF	481743.9009	2715
722296.264	4294371.948	6677	01-Nov-13	11012013-001.SSF	481744.7988	2716
722295.326	4294371.562	6793	01-Nov-13	11012013-001.SSF	481745.9448	2717
722294.815	4294371.193	6506	01-Nov-13	11012013-001.SSF	481746.8452	2718
722294.341	4294371.035	7215	01-Nov-13	11012013-001.SSF	481747.9438	2719
722294.005	4294370.873	7133	01-Nov-13	11012013-001.SSF	481748.8579	2720
722293.793	4294370.804	8070	01-Nov-13	11012013-001.SSF	481749.9448	2721
722293.764	4294370.841	8761	01-Nov-13	11012013-001.SSF	481750.8359	2722
722293.793	4294370.815	8858	01-Nov-13	11012013-001.SSF	481751.9399	2723
722293.561	4294370.813	8575	01-Nov-13	11012013-001.SSF	481752.8062	2724
722293.443	4294370.969	8258	01-Nov-13	11012013-001.SSF	481753.876	2725
722293.314	4294371.096	8170	01-Nov-13	11012013-001.SSF	481754.8359	2726
722293.217	4294371.21	8413	01-Nov-13	11012013-001.SSF	481755.9058	2727
722292.955	4294371.17	8167	01-Nov-13	11012013-001.SSF	481756.7969	2728
722292.219	4294370.96	8314	01-Nov-13	11012013-001.SSF	481757.9082	2729
722291.63	4294370.734	8561	01-Nov-13	11012013-001.SSF	481758.812	2730
722290.924	4294370.374	8326	01-Nov-13	11012013-001.SSF	481759.9038	2731
722290.003	4294369.966	8268	01-Nov-13	11012013-001.SSF	481760.9321	2732

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722289.396	4294369.785	7996	01-Nov-13	11012013-001.SSF	481761.9268	2733
722288.835	4294369.369	7572	01-Nov-13	11012013-001.SSF	481762.9331	2734
722288.094	4294369.066	7507	01-Nov-13	11012013-001.SSF	481763.9741	2735
722287.386	4294368.736	7357	01-Nov-13	11012013-001.SSF	481764.9351	2736
722286.598	4294368.535	8068	01-Nov-13	11012013-001.SSF	481765.9209	2737
722285.963	4294368.213	8401	01-Nov-13	11012013-001.SSF	481766.8711	2738
722285.438	4294367.911	7943	01-Nov-13	11012013-001.SSF	481767.9668	2739
722285.157	4294367.728	7805	01-Nov-13	11012013-001.SSF	481768.8472	2740
722284.634	4294367.432	7893	01-Nov-13	11012013-001.SSF	481769.8779	2741
722284.012	4294367.058	7359	01-Nov-13	11012013-001.SSF	481770.8301	2742
722283.339	4294366.587	7417	01-Nov-13	11012013-001.SSF	481771.8989	2743
722282.7	4294366.352	7412	01-Nov-13	11012013-001.SSF	481772.7979	2744
722281.864	4294365.919	7649	01-Nov-13	11012013-001.SSF	481773.8828	2745
722281.154	4294365.68	8337	01-Nov-13	11012013-001.SSF	481774.8081	2746
722280.624	4294365.416	8282	01-Nov-13	11012013-001.SSF	481775.8511	2747
722279.935	4294365.101	7846	01-Nov-13	11012013-001.SSF	481776.834	2748
722279.286	4294364.552	7218	01-Nov-13	11012013-001.SSF	481777.9219	2749
722278.631	4294364.146	7338	01-Nov-13	11012013-001.SSF	481778.8599	2750
722278.092	4294363.676	7262	01-Nov-13	11012013-001.SSF	481779.855	2751
722277.686	4294363.382	8052	01-Nov-13	11012013-001.SSF	481780.8042	2752
722277.565	4294362.771	8347	01-Nov-13	11012013-001.SSF	481781.9038	2753
722277.438	4294362.458	8040	01-Nov-13	11012013-001.SSF	481782.8291	2754
722277.048	4294362.303	8040	01-Nov-13	11012013-001.SSF	481783.9229	2755
722276.935	4294362.318	8062	01-Nov-13	11012013-001.SSF	481784.873	2756
722276.666	4294362.055	7925	01-Nov-13	11012013-001.SSF	481785.8208	2757
722276.403	4294361.65	8365	01-Nov-13	11012013-001.SSF	481786.7471	2758
722276.243	4294361.198	8373	01-Nov-13	11012013-001.SSF	481787.8232	2759
722276.209	4294360.81	8077	01-Nov-13	11012013-001.SSF	481788.7612	2760
722276.388	4294360.695	7828	01-Nov-13	11012013-001.SSF	481789.8569	2761
722276.518	4294360.948	8438	01-Nov-13	11012013-001.SSF	481790.8682	2762
722276.236	4294361.292	8144	01-Nov-13	11012013-001.SSF	481791.9771	2763
722276.01	4294361.396	8053	01-Nov-13	11012013-001.SSF	481792.834	2764
722275.488	4294361.328	7965	01-Nov-13	11012013-001.SSF	481793.939	2765
722275.217	4294361.2	8425	01-Nov-13	11012013-001.SSF	481794.814	2766
722274.762	4294360.046	8294	01-Nov-13	11012013-001.SSF	481796.0132	2767
722274.813	4294359.613	8205	01-Nov-13	11012013-001.SSF	481796.8628	2768
722274.972	4294359.148	8103	01-Nov-13	11012013-001.SSF	481797.9082	2769
722275.208	4294359.014	8278	01-Nov-13	11012013-001.SSF	481798.8701	2770
722275.526	4294358.942	8248	01-Nov-13	11012013-001.SSF	481799.9561	2771
722275.773	4294358.846	7670	01-Nov-13	11012013-001.SSF	481800.8291	2772
722276.165	4294358.666	8049	01-Nov-13	11012013-001.SSF	481801.9038	2773
722276.536	4294358.597	7700	01-Nov-13	11012013-001.SSF	481802.7861	2774
722277.189	4294358.484	7323	01-Nov-13	11012013-001.SSF	481803.9521	2775
722277.451	4294358.64	7944	01-Nov-13	11012013-001.SSF	481804.7891	2776
722277.97	4294358.81	8136	01-Nov-13	11012013-001.SSF	481805.8638	2777
722278.736	4294359.051	8311	01-Nov-13	11012013-001.SSF	481806.792	2778
722279.879	4294359.037	7952	01-Nov-13	11012013-001.SSF	481807.9468	2779

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722280.683	4294358.901	7758	01-Nov-13	11012013-001.SSF	481808.7852	2780
722281.534	4294358.636	7604	01-Nov-13	11012013-001.SSF	481809.9058	2781
722282.026	4294358.534	7487	01-Nov-13	11012013-001.SSF	481810.8389	2782
722282.095	4294358.787	7736	01-Nov-13	11012013-001.SSF	481811.9521	2783
722282.009	4294358.954	7914	01-Nov-13	11012013-001.SSF	481812.8662	2784
722281.936	4294359.033	8449	01-Nov-13	11012013-001.SSF	481813.8989	2785
722282.067	4294358.993	7707	01-Nov-13	11012013-001.SSF	481814.8872	2786
722282.311	4294359.083	7958	01-Nov-13	11012013-001.SSF	481815.9219	2787
722282.67	4294359.214	7888	01-Nov-13	11012013-001.SSF	481816.7358	2788
722283.12	4294359.215	8116	01-Nov-13	11012013-001.SSF	481817.876	2789
722283.902	4294359.04	8910	01-Nov-13	11012013-001.SSF	481819.894	2791
722284.428	4294359.272	8229	01-Nov-13	11012013-001.SSF	481820.752	2792
722285.092	4294359.686	7771	01-Nov-13	11012013-001.SSF	481821.9111	2793
722285.528	4294359.944	7889	01-Nov-13	11012013-001.SSF	481822.7949	2794
722286.478	4294360.354	8727	01-Nov-13	11012013-001.SSF	481823.8428	2795
722286.92	4294360.545	8051	01-Nov-13	11012013-001.SSF	481824.8271	2796
722287.282	4294360.737	7754	01-Nov-13	11012013-001.SSF	481825.8281	2797
722287.455	4294360.766	7339	01-Nov-13	11012013-001.SSF	481826.7568	2798
722287.575	4294360.665	7990	01-Nov-13	11012013-001.SSF	481827.894	2799
722287.647	4294360.51	8079	01-Nov-13	11012013-001.SSF	481828.7749	2800
722287.855	4294360.429	8422	01-Nov-13	11012013-001.SSF	481829.9102	2801
722288.141	4294360.634	8690	01-Nov-13	11012013-001.SSF	481830.7822	2802
722288.72	4294360.564	8570	01-Nov-13	11012013-001.SSF	481831.8442	2803
722289.456	4294360.418	8503	01-Nov-13	11012013-001.SSF	481832.7842	2804
722290.4	4294360.554	8435	01-Nov-13	11012013-001.SSF	481833.8599	2805
722291.193	4294361.308	8645	01-Nov-13	11012013-001.SSF	481834.876	2806
722291.628	4294362.109	8988	01-Nov-13	11012013-001.SSF	481835.8232	2807
722291.978	4294362.528	9278	01-Nov-13	11012013-001.SSF	481836.8198	2808
722292.19	4294362.686	8219	01-Nov-13	11012013-001.SSF	481837.8799	2809
722292.238	4294362.882	8515	01-Nov-13	11012013-001.SSF	481838.7798	2810
722292.155	4294362.845	8150	01-Nov-13	11012013-001.SSF	481839.9341	2811
722292.066	4294362.782	8079	01-Nov-13	11012013-001.SSF	481840.8779	2812
722292.064	4294362.756	8474	01-Nov-13	11012013-001.SSF	481841.8638	2813
722292.125	4294362.808	8426	01-Nov-13	11012013-001.SSF	481842.8579	2814
722292.161	4294362.877	8726	01-Nov-13	11012013-001.SSF	481844.0112	2815
722292.392	4294362.885	8681	01-Nov-13	11012013-001.SSF	481844.876	2816
722292.868	4294363.271	9030	01-Nov-13	11012013-001.SSF	481845.8662	2817
722293.439	4294363.678	8912	01-Nov-13	11012013-001.SSF	481846.8711	2818
722294.015	4294364.129	8598	01-Nov-13	11012013-001.SSF	481847.9048	2819
722294.599	4294364.347	8256	01-Nov-13	11012013-001.SSF	481848.8408	2820
722294.811	4294364.711	7929	01-Nov-13	11012013-001.SSF	481849.8999	2821
722294.931	4294365.052	8832	01-Nov-13	11012013-001.SSF	481850.7852	2822
722295.258	4294365.459	9033	01-Nov-13	11012013-001.SSF	481851.8911	2823
722295.569	4294365.747	9168	01-Nov-13	11012013-001.SSF	481852.8301	2824
722295.322	4294365.925	8937	01-Nov-13	11012013-001.SSF	481853.8931	2825
722295.272	4294366.012	8769	01-Nov-13	11012013-001.SSF	481854.791	2826
722295.554	4294366.165	9403	01-Nov-13	11012013-001.SSF	481855.8872	2827

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722295.552	4294366.251	8671	01-Nov-13	11012013-001.SSF	481856.7568	2828
722295.661	4294366.558	8830	01-Nov-13	11012013-001.SSF	481857.918	2829
722296.027	4294366.813	9002	01-Nov-13	11012013-001.SSF	481858.856	2830
722296.472	4294367.403	8678	01-Nov-13	11012013-001.SSF	481859.873	2831
722296.863	4294367.845	9066	01-Nov-13	11012013-001.SSF	481860.791	2832
722297.406	4294368.263	8625	01-Nov-13	11012013-001.SSF	481861.832	2833
722297.71	4294368.604	8286	01-Nov-13	11012013-001.SSF	481862.7148	2834
722297.998	4294368.845	8418	01-Nov-13	11012013-001.SSF	481863.8701	2835
722298.377	4294368.809	7795	01-Nov-13	11012013-001.SSF	481864.7632	2836
722299.183	4294368.951	7355	01-Nov-13	11012013-001.SSF	481865.938	2837
722299.446	4294369.377	6927	01-Nov-13	11012013-001.SSF	481866.8418	2838
722299.787	4294369.776	6934	01-Nov-13	11012013-001.SSF	481867.8428	2839
722300.195	4294370.004	6487	01-Nov-13	11012013-001.SSF	481868.8442	2840
722300.723	4294370.281	6724	01-Nov-13	11012013-001.SSF	481869.876	2841
722301.031	4294370.6	6550	01-Nov-13	11012013-001.SSF	481870.6919	2842
722301.087	4294370.945	6812	01-Nov-13	11012013-001.SSF	481871.8589	2843
722301.034	4294371.254	6366	01-Nov-13	11012013-001.SSF	481872.769	2844
722301.019	4294371.743	6153	01-Nov-13	11012013-001.SSF	481873.855	2845
722301.293	4294372.18	6386	01-Nov-13	11012013-001.SSF	481874.7212	2846
722301.592	4294372.564	6517	01-Nov-13	11012013-001.SSF	481875.8428	2847
722301.82	4294372.753	6673	01-Nov-13	11012013-001.SSF	481876.752	2848
722302.103	4294373.022	6618	01-Nov-13	11012013-001.SSF	481877.8252	2849
722302.32	4294373.259	6378	01-Nov-13	11012013-001.SSF	481878.7612	2850
722302.528	4294373.478	6445	01-Nov-13	11012013-001.SSF	481879.8311	2851
722302.637	4294373.595	6078	01-Nov-13	11012013-001.SSF	481880.729	2852
722302.792	4294373.649	5818	01-Nov-13	11012013-001.SSF	481881.894	2853
722302.888	4294373.623	6198	01-Nov-13	11012013-001.SSF	481882.7671	2854
722302.932	4294373.53	6246	01-Nov-13	11012013-001.SSF	481883.853	2855
722302.865	4294373.427	6761	01-Nov-13	11012013-001.SSF	481884.7529	2856
722302.921	4294373.414	6525	01-Nov-13	11012013-001.SSF	481885.7759	2857
722302.897	4294373.558	6078	01-Nov-13	11012013-001.SSF	481886.7461	2858
722302.833	4294373.667	6306	01-Nov-13	11012013-001.SSF	481887.8579	2859
722302.849	4294373.691	6562	01-Nov-13	11012013-001.SSF	481888.7212	2860
722302.966	4294373.711	6496	01-Nov-13	11012013-001.SSF	481889.8462	2861
722303.077	4294373.592	6301	01-Nov-13	11012013-001.SSF	481890.7891	2862
722303.113	4294373.493	5959	01-Nov-13	11012013-001.SSF	481891.9331	2863
722303.102	4294373.427	6232	01-Nov-13	11012013-001.SSF	481892.7651	2864
722303.074	4294373.352	5958	01-Nov-13	11012013-001.SSF	481893.854	2865
722303.042	4294373.3	5616	01-Nov-13	11012013-001.SSF	481894.8281	2866
722303.005	4294373.277	6054	01-Nov-13	11012013-001.SSF	481895.856	2867
722302.967	4294373.168	5932	01-Nov-13	11012013-001.SSF	481896.7842	2868
722302.953	4294373.039	6157	01-Nov-13	11012013-001.SSF	481897.9482	2869
722302.945	4294373.003	6306	01-Nov-13	11012013-001.SSF	481898.8442	2870
722302.912	4294372.962	6284	01-Nov-13	11012013-001.SSF	481899.8818	2871
722302.878	4294372.873	6182	01-Nov-13	11012013-001.SSF	481900.7808	2872
722302.858	4294372.74	6650	01-Nov-13	11012013-001.SSF	481901.832	2873
722302.857	4294372.682	6073	01-Nov-13	11012013-001.SSF	481902.7212	2874

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722302.859	4294372.609	6482	01-Nov-13	11012013-001.SSF	481904.7778	2876
722302.876	4294372.613	6233	01-Nov-13	11012013-001.SSF	481905.7959	2877
722302.896	4294372.644	6408	01-Nov-13	11012013-001.SSF	481906.8008	2878
722302.903	4294372.658	6552	01-Nov-13	11012013-001.SSF	481907.8569	2879
722302.916	4294372.702	6296	01-Nov-13	11012013-001.SSF	481908.7642	2880
722302.924	4294372.817	6391	01-Nov-13	11012013-001.SSF	481909.8369	2881
722302.972	4294372.828	5972	01-Nov-13	11012013-001.SSF	481910.7412	2882
722302.986	4294372.857	5804	01-Nov-13	11012013-001.SSF	481911.7852	2883
722303.006	4294372.908	5942	01-Nov-13	11012013-001.SSF	481912.6958	2884
722303.044	4294372.982	6042	01-Nov-13	11012013-001.SSF	481913.8281	2885
722303.048	4294373.023	6226	01-Nov-13	11012013-001.SSF	481914.79	2886
722303.047	4294373.111	6120	01-Nov-13	11012013-001.SSF	481915.8618	2887
722303.039	4294373.175	6127	01-Nov-13	11012013-001.SSF	481916.7832	2888
722303.041	4294373.221	5831	01-Nov-13	11012013-001.SSF	481917.9248	2889
722303.022	4294373.185	6482	01-Nov-13	11012013-001.SSF	481918.813	2890
722302.988	4294373.157	6376	01-Nov-13	11012013-001.SSF	481919.8501	2891
722302.963	4294373.143	6504	01-Nov-13	11012013-001.SSF	481920.7578	2892
722302.948	4294373.136	6388	01-Nov-13	11012013-001.SSF	481921.9058	2893
722302.941	4294373.137	6443	01-Nov-13	11012013-001.SSF	481922.7529	2894
722302.945	4294373.127	5964	01-Nov-13	11012013-001.SSF	481923.8418	2895
722302.934	4294373.114	6220	01-Nov-13	11012013-001.SSF	481924.7651	2896
722302.919	4294373.123	6393	01-Nov-13	11012013-001.SSF	481925.9102	2897
722302.918	4294373.135	6619	01-Nov-13	11012013-001.SSF	481926.77	2898
722302.929	4294373.131	6633	01-Nov-13	11012013-001.SSF	481927.9639	2899
722302.891	4294373.121	6491	01-Nov-13	11012013-001.SSF	481928.772	2900
722302.815	4294373.043	5893	01-Nov-13	11012013-001.SSF	481929.9609	2901
722302.796	4294372.963	5437	01-Nov-13	11012013-001.SSF	481930.8389	2902
722302.801	4294372.881	6133	01-Nov-13	11012013-001.SSF	481931.856	2903
722302.784	4294372.849	7155	01-Nov-13	11012013-001.SSF	481932.8398	2904
722302.758	4294372.822	7257	01-Nov-13	11012013-001.SSF	481933.8818	2905
722302.749	4294372.79	6707	01-Nov-13	11012013-001.SSF	481934.7681	2906
722302.748	4294372.741	6352	01-Nov-13	11012013-001.SSF	481935.9048	2907
722302.767	4294372.846	6588	01-Nov-13	11012013-001.SSF	481936.8242	2908
722302.735	4294372.983	6038	01-Nov-13	11012013-001.SSF	481937.9121	2909
722302.725	4294373.082	5684	01-Nov-13	11012013-001.SSF	481938.7632	2910
722302.729	4294373.145	5784	01-Nov-13	11012013-001.SSF	481939.8638	2911
722302.745	4294373.172	5886	01-Nov-13	11012013-001.SSF	481940.7822	2912
722302.784	4294373.196	6198	01-Nov-13	11012013-001.SSF	481941.8062	2913
722302.819	4294373.23	6081	01-Nov-13	11012013-001.SSF	481942.7969	2914
722302.925	4294373.537	6083	01-Nov-13	11012013-001.SSF	481943.8442	2915
722302.931	4294373.778	5912	01-Nov-13	11012013-001.SSF	481944.7129	2916
722302.851	4294374.063	6018	01-Nov-13	11012013-001.SSF	481945.8408	2917
722302.806	4294374.26	6100	01-Nov-13	11012013-001.SSF	481946.7808	2918
722302.398	4294374.438	6536	01-Nov-13	11012013-001.SSF	481947.873	2919
722302.08	4294374.628	6024	01-Nov-13	11012013-001.SSF	481948.769	2920
722301.958	4294374.898	6141	01-Nov-13	11012013-001.SSF	481949.8418	2921

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722301.941	4294375.007	6176	01-Nov-13	11012013-001.SSF	481950.8159	2922
722301.985	4294374.989	6212	01-Nov-13	11012013-001.SSF	481951.875	2923
722302.116	4294374.912	6359	01-Nov-13	11012013-001.SSF	481952.7622	2924
722302.294	4294374.811	6307	01-Nov-13	11012013-001.SSF	481953.9302	2925
722302.306	4294374.778	6765	01-Nov-13	11012013-001.SSF	481954.8188	2926
722302.305	4294374.746	6123	01-Nov-13	11012013-001.SSF	481955.9048	2927
722302.266	4294374.746	6256	01-Nov-13	11012013-001.SSF	481956.751	2928
722302.265	4294374.748	6159	01-Nov-13	11012013-001.SSF	481957.9419	2929
722302.315	4294374.701	6224	01-Nov-13	11012013-001.SSF	481958.7632	2930
722302.373	4294374.672	6359	01-Nov-13	11012013-001.SSF	481959.8779	2931
722302.398	4294374.657	5954	01-Nov-13	11012013-001.SSF	481960.7769	2932
722302.449	4294374.724	6304	01-Nov-13	11012013-001.SSF	481961.7808	2933
722302.533	4294374.874	6298	01-Nov-13	11012013-001.SSF	481962.7158	2934
722302.66	4294375.037	6573	01-Nov-13	11012013-001.SSF	481963.7749	2935
722302.738	4294375.112	6262	01-Nov-13	11012013-001.SSF	481964.749	2936
722302.765	4294375.145	6657	01-Nov-13	11012013-001.SSF	481965.8071	2937
722302.745	4294375.231	6632	01-Nov-13	11012013-001.SSF	481966.8062	2938
722302.701	4294375.259	6288	01-Nov-13	11012013-001.SSF	481967.8398	2939
722302.682	4294375.262	6057	01-Nov-13	11012013-001.SSF	481968.7109	2940
722302.648	4294375.286	6047	01-Nov-13	11012013-001.SSF	481969.7979	2941
722302.616	4294375.303	6124	01-Nov-13	11012013-001.SSF	481970.79	2942
722302.608	4294375.319	6647	01-Nov-13	11012013-001.SSF	481971.8589	2943
722302.622	4294375.323	6971	01-Nov-13	11012013-001.SSF	481972.8262	2944
722302.664	4294375.317	6689	01-Nov-13	11012013-001.SSF	481973.8462	2945
722302.651	4294375.334	6687	01-Nov-13	11012013-001.SSF	481974.8071	2946
722302.588	4294375.379	6401	01-Nov-13	11012013-001.SSF	481975.7671	2947
722302.569	4294375.403	6376	01-Nov-13	11012013-001.SSF	481976.6699	2948
722302.543	4294375.425	6391	01-Nov-13	11012013-001.SSF	481977.8662	2949
722302.518	4294375.444	6437	01-Nov-13	11012013-001.SSF	481978.7261	2950
722302.498	4294375.456	6366	01-Nov-13	11012013-001.SSF	481979.793	2951
722302.502	4294375.487	6311	01-Nov-13	11012013-001.SSF	481980.7168	2952
722302.519	4294375.506	6325	01-Nov-13	11012013-001.SSF	481981.874	2953
722302.538	4294375.515	6512	01-Nov-13	11012013-001.SSF	481982.8008	2954
722302.569	4294375.51	6641	01-Nov-13	11012013-001.SSF	481983.8242	2955
722302.572	4294375.488	6585	01-Nov-13	11012013-001.SSF	481984.771	2956
722302.566	4294375.466	6397	01-Nov-13	11012013-001.SSF	481985.8379	2957
722302.592	4294375.486	6493	01-Nov-13	11012013-001.SSF	481986.771	2958
722302.734	4294375.473	5962	01-Nov-13	11012013-001.SSF	481987.877	2959
722302.841	4294375.394	6383	01-Nov-13	11012013-001.SSF	481988.751	2960
722302.873	4294375.328	5976	01-Nov-13	11012013-001.SSF	481989.8462	2961
722302.96	4294375.29	6046	01-Nov-13	11012013-001.SSF	481990.7852	2962
722302.982	4294375.269	6191	01-Nov-13	11012013-001.SSF	481991.8652	2963
722302.984	4294375.258	5657	01-Nov-13	11012013-001.SSF	481992.7612	2964
722303.132	4294375.269	5567	01-Nov-13	11012013-001.SSF	481993.855	2965
722303.169	4294375.282	5831	01-Nov-13	11012013-001.SSF	481994.77	2966
722303.127	4294375.281	6280	01-Nov-13	11012013-001.SSF	481995.8149	2967
722303.063	4294375.293	6045	01-Nov-13	11012013-001.SSF	481996.7549	2968

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722302.947	4294375.324	6185	01-Nov-13	11012013-001.SSF	481998.6968	2970
722302.909	4294375.337	6111	01-Nov-13	11012013-001.SSF	481999.7681	2971
722302.849	4294375.357	6385	01-Nov-13	11012013-001.SSF	482000.7832	2972
722302.812	4294375.393	6074	01-Nov-13	11012013-001.SSF	482001.876	2973
722302.821	4294375.389	5561	01-Nov-13	11012013-001.SSF	482002.7622	2974
722302.818	4294375.366	6061	01-Nov-13	11012013-001.SSF	482003.812	2975
722302.794	4294375.391	6349	01-Nov-13	11012013-001.SSF	482004.7568	2976
722302.767	4294375.414	6324	01-Nov-13	11012013-001.SSF	482005.8062	2977
722302.757	4294375.427	6092	01-Nov-13	11012013-001.SSF	482006.6968	2978
722302.741	4294375.428	6247	01-Nov-13	11012013-001.SSF	482007.8101	2979
722302.746	4294375.434	6341	01-Nov-13	11012013-001.SSF	482008.6782	2980
722302.73	4294375.458	6454	01-Nov-13	11012013-001.SSF	482009.8091	2981
722302.72	4294375.467	6255	01-Nov-13	11012013-001.SSF	482010.751	2982
722302.708	4294375.476	6106	01-Nov-13	11012013-001.SSF	482011.812	2983
722302.691	4294375.487	5917	01-Nov-13	11012013-001.SSF	482012.7109	2984
722302.66	4294375.506	6141	01-Nov-13	11012013-001.SSF	482013.832	2985
722302.635	4294375.538	6221	01-Nov-13	11012013-001.SSF	482014.7412	2986
722302.622	4294375.551	6349	01-Nov-13	11012013-001.SSF	482015.812	2987
722302.604	4294375.557	5656	01-Nov-13	11012013-001.SSF	482016.71	2988
722302.586	4294375.566	6136	01-Nov-13	11012013-001.SSF	482017.8008	2989
722302.575	4294375.581	6339	01-Nov-13	11012013-001.SSF	482018.8179	2990
722302.568	4294375.59	6783	01-Nov-13	11012013-001.SSF	482019.8271	2991
722302.589	4294375.574	6238	01-Nov-13	11012013-001.SSF	482020.7412	2992
722302.599	4294375.549	6156	01-Nov-13	11012013-001.SSF	482021.833	2993
722302.628	4294375.543	6868	01-Nov-13	11012013-001.SSF	482022.7261	2994
722302.683	4294375.507	6623	01-Nov-13	11012013-001.SSF	482023.8818	2995
722302.709	4294375.484	6545	01-Nov-13	11012013-001.SSF	482024.6982	2996
722302.733	4294375.487	6532	01-Nov-13	11012013-001.SSF	482025.8042	2997
722302.787	4294375.52	6246	01-Nov-13	11012013-001.SSF	482026.7041	2998
722302.825	4294375.52	6243	01-Nov-13	11012013-001.SSF	482027.7441	2999
722302.865	4294375.48	6092	01-Nov-13	11012013-001.SSF	482028.6992	3000
722302.905	4294375.452	6254	01-Nov-13	11012013-001.SSF	482029.7222	3001
722302.923	4294375.446	6070	01-Nov-13	11012013-001.SSF	482030.7222	3002
722302.948	4294375.423	6198	01-Nov-13	11012013-001.SSF	482031.8662	3003
722302.988	4294375.381	6396	01-Nov-13	11012013-001.SSF	482032.7661	3004
722303.005	4294375.361	6493	01-Nov-13	11012013-001.SSF	482033.8389	3005
722303.013	4294375.332	6397	01-Nov-13	11012013-001.SSF	482034.7271	3006
722302.977	4294375.33	6418	01-Nov-13	11012013-001.SSF	482035.7222	3007
722302.94	4294375.314	6505	01-Nov-13	11012013-001.SSF	482036.728	3008
722302.932	4294375.284	5781	01-Nov-13	11012013-001.SSF	482037.7461	3009
722302.915	4294375.249	5974	01-Nov-13	11012013-001.SSF	482038.7319	3010
722302.893	4294375.207	6030	01-Nov-13	11012013-001.SSF	482039.748	3011
722302.884	4294375.182	6429	01-Nov-13	11012013-001.SSF	482040.624	3012
722302.898	4294375.161	6706	01-Nov-13	11012013-001.SSF	482041.7139	3013
722302.929	4294375.197	6337	01-Nov-13	11012013-001.SSF	482042.6431	3014
722302.952	4294375.267	6182	01-Nov-13	11012013-001.SSF	482043.7808	3015

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722302.961	4294375.303	6320	01-Nov-13	11012013-001.SSF	482044.6221	3016
722302.974	4294375.335	6307	01-Nov-13	11012013-001.SSF	482045.729	3017
722302.952	4294375.374	5542	01-Nov-13	11012013-001.SSF	482046.6489	3018
722302.916	4294375.423	5427	01-Nov-13	11012013-001.SSF	482047.7949	3019
722302.893	4294375.459	5708	01-Nov-13	11012013-001.SSF	482048.665	3020
722302.879	4294375.496	5678	01-Nov-13	11012013-001.SSF	482049.7588	3021
722302.903	4294375.501	6209	01-Nov-13	11012013-001.SSF	482050.7119	3022
722302.895	4294375.511	6402	01-Nov-13	11012013-001.SSF	482051.8472	3023
722302.872	4294375.521	5904	01-Nov-13	11012013-001.SSF	482052.7939	3024
722302.895	4294375.495	5968	01-Nov-13	11012013-001.SSF	482053.832	3025
722302.921	4294375.488	6147	01-Nov-13	11012013-001.SSF	482054.7412	3026
722303.002	4294375.485	5812	01-Nov-13	11012013-001.SSF	482055.7549	3027
722303.048	4294375.499	6037	01-Nov-13	11012013-001.SSF	482056.6919	3028
722303.243	4294375.386	6576	01-Nov-13	11012013-001.SSF	482057.7378	3029
722303.258	4294375.299	6009	01-Nov-13	11012013-001.SSF	482058.6719	3030
722303.185	4294375.222	5817	01-Nov-13	11012013-001.SSF	482059.7471	3031
722303.102	4294375.149	6115	01-Nov-13	11012013-001.SSF	482060.7339	3032
722303.004	4294375.135	6079	01-Nov-13	11012013-001.SSF	482061.7539	3033
722302.983	4294375.303	6345	01-Nov-13	11012013-001.SSF	482062.7529	3034
722303.035	4294375.484	5976	01-Nov-13	11012013-001.SSF	482063.7759	3035
722303.021	4294375.556	6024	01-Nov-13	11012013-001.SSF	482064.7651	3036
722303.013	4294375.536	6051	01-Nov-13	11012013-001.SSF	482065.8452	3037
722302.937	4294375.539	6373	01-Nov-13	11012013-001.SSF	482066.7881	3038
722302.914	4294375.554	6390	01-Nov-13	11012013-001.SSF	482067.7939	3039
722302.905	4294375.575	6024	01-Nov-13	11012013-001.SSF	482068.7568	3040
722303.199	4294375.481	6366	01-Nov-13	11012013-001.SSF	482069.792	3041
722303.493	4294375.363	6348	01-Nov-13	11012013-001.SSF	482070.7271	3042
722303.636	4294375.236	6211	01-Nov-13	11012013-001.SSF	482071.7778	3043
722303.646	4294375.348	6456	01-Nov-13	11012013-001.SSF	482072.6519	3044
722303.695	4294375.437	5889	01-Nov-13	11012013-001.SSF	482073.728	3045
722303.857	4294375.238	5660	01-Nov-13	11012013-001.SSF	482074.6558	3046
722304.184	4294374.961	5696	01-Nov-13	11012013-001.SSF	482075.79	3047
722304.425	4294374.808	5994	01-Nov-13	11012013-001.SSF	482076.7261	3048
722304.628	4294374.682	5974	01-Nov-13	11012013-001.SSF	482077.7588	3049
722304.759	4294374.601	6217	01-Nov-13	11012013-001.SSF	482078.6919	3050
722304.944	4294374.746	6415	01-Nov-13	11012013-001.SSF	482079.811	3051
722305.078	4294374.709	6331	01-Nov-13	11012013-001.SSF	482080.7788	3052
722305.142	4294374.522	6613	01-Nov-13	11012013-001.SSF	482081.8008	3053
722305.272	4294374.453	6480	01-Nov-13	11012013-001.SSF	482082.731	3054
722305.364	4294374.398	6487	01-Nov-13	11012013-001.SSF	482083.8062	3055
722305.404	4294374.357	6485	01-Nov-13	11012013-001.SSF	482084.7412	3056
722305.421	4294374.327	6840	01-Nov-13	11012013-001.SSF	482085.728	3057
722305.376	4294374.288	6442	01-Nov-13	11012013-001.SSF	482086.6792	3058
722305.324	4294374.249	6564	01-Nov-13	11012013-001.SSF	482087.792	3059
722305.321	4294374.166	6279	01-Nov-13	11012013-001.SSF	482088.644	3060
722305.348	4294374.129	6337	01-Nov-13	11012013-001.SSF	482089.73	3061
722305.402	4294374.238	6324	01-Nov-13	11012013-001.SSF	482090.6489	3062

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722305.437	4294374.418	6032	01-Nov-13	11012013-001.SSF	482091.728	3063
722305.437	4294374.56	6408	01-Nov-13	11012013-001.SSF	482092.6821	3064
722305.417	4294374.671	6199	01-Nov-13	11012013-001.SSF	482093.7451	3065
722305.454	4294374.884	6015	01-Nov-13	11012013-001.SSF	482094.7402	3066
722305.454	4294375.06	6068	01-Nov-13	11012013-001.SSF	482095.7471	3067
722305.512	4294375.338	5820	01-Nov-13	11012013-001.SSF	482096.7349	3068
722305.488	4294375.59	6214	01-Nov-13	11012013-001.SSF	482097.7212	3069
722305.419	4294375.642	6398	01-Nov-13	11012013-001.SSF	482098.7231	3070
722305.493	4294375.548	6006	01-Nov-13	11012013-001.SSF	482099.7769	3071
722305.614	4294375.471	5703	01-Nov-13	11012013-001.SSF	482100.7959	3072
722305.666	4294375.443	5975	01-Nov-13	11012013-001.SSF	482101.8311	3073
722305.688	4294375.49	6068	01-Nov-13	11012013-001.SSF	482102.7358	3074
722305.631	4294375.52	5783	01-Nov-13	11012013-001.SSF	482103.8271	3075
722305.562	4294375.486	5585	01-Nov-13	11012013-001.SSF	482104.729	3076
722305.379	4294375.285	5954	01-Nov-13	11012013-001.SSF	482105.833	3077
722305.416	4294375.263	5704	01-Nov-13	11012013-001.SSF	482106.7339	3078
722305.502	4294375.415	5736	01-Nov-13	11012013-001.SSF	482107.8062	3079
722305.429	4294375.51	5521	01-Nov-13	11012013-001.SSF	482108.6792	3080
722305.297	4294375.435	5948	01-Nov-13	11012013-001.SSF	482109.8081	3081
722305.085	4294375.376	6301	01-Nov-13	11012013-001.SSF	482110.687	3082
722304.779	4294375.167	6746	01-Nov-13	11012013-001.SSF	482111.8101	3083
722304.218	4294375.155	7027	01-Nov-13	11012013-001.SSF	482112.6709	3084
722303.562	4294375.279	6165	01-Nov-13	11012013-001.SSF	482113.7749	3085
722303.206	4294375.319	6078	01-Nov-13	11012013-001.SSF	482114.6611	3086
722302.877	4294375.23	5699	01-Nov-13	11012013-001.SSF	482115.7871	3087
722302.529	4294375.112	5920	01-Nov-13	11012013-001.SSF	482116.7778	3088
722302.163	4294375.02	5812	01-Nov-13	11012013-001.SSF	482117.8169	3089
722301.917	4294374.967	5609	01-Nov-13	11012013-001.SSF	482118.7632	3090
722301.702	4294374.982	5698	01-Nov-13	11012013-001.SSF	482119.833	3091
722301.558	4294374.975	5950	01-Nov-13	11012013-001.SSF	482120.6992	3092
722301.394	4294375.003	6407	01-Nov-13	11012013-001.SSF	482121.7852	3093
722301.295	4294375.013	6438	01-Nov-13	11012013-001.SSF	482122.6592	3094
722301.195	4294375.002	5737	01-Nov-13	11012013-001.SSF	482123.8159	3095
722301.126	4294374.991	6692	01-Nov-13	11012013-001.SSF	482124.708	3096
722301.044	4294375.048	6674	01-Nov-13	11012013-001.SSF	482125.7861	3097
722300.989	4294375.102	6094	01-Nov-13	11012013-001.SSF	482126.7319	3098
722300.92	4294375.296	6225	01-Nov-13	11012013-001.SSF	482127.7881	3099
722301.011	4294375.295	6052	01-Nov-13	11012013-001.SSF	482128.7358	3100
722301.155	4294375.187	5901	01-Nov-13	11012013-001.SSF	482129.7598	3101
722301.277	4294375.04	5569	01-Nov-13	11012013-001.SSF	482130.667	3102
722301.401	4294374.885	5758	01-Nov-13	11012013-001.SSF	482131.8481	3103
722301.458	4294374.829	5938	01-Nov-13	11012013-001.SSF	482132.689	3104
722301.511	4294374.767	6018	01-Nov-13	11012013-001.SSF	482133.7539	3105
722301.571	4294374.748	6077	01-Nov-13	11012013-001.SSF	482134.7539	3106
722301.634	4294374.76	6418	01-Nov-13	11012013-001.SSF	482135.7158	3107
722301.757	4294374.689	6340	01-Nov-13	11012013-001.SSF	482136.6909	3108
722301.867	4294374.632	6229	01-Nov-13	11012013-001.SSF	482137.7998	3109

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722301.899	4294374.622	6068	01-Nov-13	11012013-001.SSF	482138.6631	3110
722301.936	4294374.575	6113	01-Nov-13	11012013-001.SSF	482139.752	3111
722301.977	4294374.533	5876	01-Nov-13	11012013-001.SSF	482140.6069	3112
722302.09	4294374.432	6268	01-Nov-13	11012013-001.SSF	482141.7539	3113
722302.034	4294374.403	6285	01-Nov-13	11012013-001.SSF	482142.605	3114
722301.879	4294374.41	6175	01-Nov-13	11012013-001.SSF	482143.731	3115
722301.791	4294374.42	6196	01-Nov-13	11012013-001.SSF	482144.6758	3116
722301.82	4294374.24	6395	01-Nov-13	11012013-001.SSF	482145.8042	3117
722301.776	4294374.229	6484	01-Nov-13	11012013-001.SSF	482146.7432	3118
722301.722	4294374.242	6385	01-Nov-13	11012013-001.SSF	482147.811	3119
722301.745	4294374.174	6359	01-Nov-13	11012013-001.SSF	482148.6958	3120
722301.661	4294374.149	5947	01-Nov-13	11012013-001.SSF	482149.751	3121
722301.635	4294374.063	6112	01-Nov-13	11012013-001.SSF	482150.73	3122
722301.716	4294373.819	6288	01-Nov-13	11012013-001.SSF	482151.791	3123
722301.646	4294373.82	6274	01-Nov-13	11012013-001.SSF	482152.6479	3124
722301.645	4294373.91	6477	01-Nov-13	11012013-001.SSF	482153.7329	3125
722301.756	4294374.301	6598	01-Nov-13	11012013-001.SSF	482154.6621	3126
722302.118	4294374.842	6374	01-Nov-13	11012013-001.SSF	482155.7939	3127
722302.238	4294375.519	6607	01-Nov-13	11012013-001.SSF	482156.6758	3128
722302.644	4294376.296	5891	01-Nov-13	11012013-001.SSF	482157.7881	3129
722303.174	4294376.739	5984	01-Nov-13	11012013-001.SSF	482158.707	3130
722303.909	4294377.03	6118	01-Nov-13	11012013-001.SSF	482159.749	3131
722304.371	4294377.333	6351	01-Nov-13	11012013-001.SSF	482160.7178	3132
722304.742	4294377.558	5815	01-Nov-13	11012013-001.SSF	482161.771	3133
722305.083	4294377.833	6518	01-Nov-13	11012013-001.SSF	482162.728	3134
722305.339	4294378.034	6914	01-Nov-13	11012013-001.SSF	482163.7998	3135
722305.472	4294378.134	6799	01-Nov-13	11012013-001.SSF	482164.6328	3136
722305.483	4294378.555	6344	01-Nov-13	11012013-001.SSF	482165.7861	3137
722305.395	4294378.771	6914	01-Nov-13	11012013-001.SSF	482166.6431	3138
722305.546	4294378.841	7076	01-Nov-13	11012013-001.SSF	482167.7881	3139
722305.639	4294379.071	6740	01-Nov-13	11012013-001.SSF	482168.6348	3140
722305.862	4294379.355	6986	01-Nov-13	11012013-001.SSF	482169.708	3141
722306.115	4294379.517	6405	01-Nov-13	11012013-001.SSF	482170.6821	3142
722306.127	4294379.837	6197	01-Nov-13	11012013-001.SSF	482171.812	3143
722306.559	4294380.168	6313	01-Nov-13	11012013-001.SSF	482172.6738	3144
722307.029	4294380.357	6896	01-Nov-13	11012013-001.SSF	482173.8218	3145
722307.297	4294380.581	7479	01-Nov-13	11012013-001.SSF	482174.6982	3146
722307.592	4294380.767	7297	01-Nov-13	11012013-001.SSF	482175.7119	3147
722307.855	4294380.921	7014	01-Nov-13	11012013-001.SSF	482176.6558	3148
722307.875	4294380.941	7208	01-Nov-13	11012013-001.SSF	482177.7432	3149
722307.478	4294380.876	7137	01-Nov-13	11012013-001.SSF	482178.6421	3150
722307.032	4294381.124	6947	01-Nov-13	11012013-001.SSF	482179.6831	3151
722306.726	4294381.594	6720	01-Nov-13	11012013-001.SSF	482180.6851	3152
722306.788	4294382.19	6697	01-Nov-13	11012013-001.SSF	482181.8208	3153
722306.881	4294382.504	7480	01-Nov-13	11012013-001.SSF	482182.709	3154
722306.854	4294382.685	7440	01-Nov-13	11012013-001.SSF	482183.7661	3155
722306.811	4294382.786	7410	01-Nov-13	11012013-001.SSF	482184.645	3156

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722306.848	4294382.766	7333	01-Nov-13	11012013-001.SSF	482185.6738	3157
722306.735	4294382.744	7170	01-Nov-13	11012013-001.SSF	482186.6621	3158
722306.673	4294382.656	6823	01-Nov-13	11012013-001.SSF	482187.7598	3159
722306.465	4294382.628	7055	01-Nov-13	11012013-001.SSF	482188.6548	3160
722306.243	4294382.448	6646	01-Nov-13	11012013-001.SSF	482189.7109	3161
722306.061	4294382.206	6558	01-Nov-13	11012013-001.SSF	482190.6982	3162
722306.024	4294381.994	6434	01-Nov-13	11012013-001.SSF	482191.7158	3163
722306.119	4294381.834	6686	01-Nov-13	11012013-001.SSF	482192.6221	3164
722306.169	4294381.296	6333	01-Nov-13	11012013-001.SSF	482193.7109	3165
722306.13	4294380.75	6277	01-Nov-13	11012013-001.SSF	482194.6309	3166
722306.173	4294380.348	6201	01-Nov-13	11012013-001.SSF	482195.6851	3167
722306.125	4294379.916	6263	01-Nov-13	11012013-001.SSF	482196.6079	3168
722305.687	4294379.342	6598	01-Nov-13	11012013-001.SSF	482197.7378	3169
722305.179	4294378.833	6599	01-Nov-13	11012013-001.SSF	482198.5991	3170
722304.419	4294378.306	6179	01-Nov-13	11012013-001.SSF	482199.7568	3171
722303.889	4294378.008	6393	01-Nov-13	11012013-001.SSF	482200.6348	3172
722303.376	4294377.693	6596	01-Nov-13	11012013-001.SSF	482201.6758	3173
722302.74	4294377.679	6725	01-Nov-13	11012013-001.SSF	482202.6631	3174
722302.06	4294377.767	6520	01-Nov-13	11012013-001.SSF	482203.7549	3175
722301.707	4294377.778	6360	01-Nov-13	11012013-001.SSF	482204.6558	3176
722301.357	4294377.832	6517	01-Nov-13	11012013-001.SSF	482205.8052	3177
722301.178	4294377.822	6471	01-Nov-13	11012013-001.SSF	482206.7212	3178
722301.046	4294377.797	7030	01-Nov-13	11012013-001.SSF	482207.7891	3179
722300.966	4294377.776	7217	01-Nov-13	11012013-001.SSF	482208.728	3180
722300.888	4294377.752	6947	01-Nov-13	11012013-001.SSF	482209.811	3181
722300.887	4294377.674	6240	01-Nov-13	11012013-001.SSF	482210.5591	3182
722300.863	4294377.609	6465	01-Nov-13	11012013-001.SSF	482211.6602	3183
722300.772	4294377.741	6501	01-Nov-13	11012013-001.SSF	482212.561	3184
722300.782	4294378.108	6394	01-Nov-13	11012013-001.SSF	482213.7422	3185
722301.053	4294378.482	6432	01-Nov-13	11012013-001.SSF	482214.5698	3186
722301.006	4294379.257	6595	01-Nov-13	11012013-001.SSF	482215.793	3187
722301.069	4294379.646	6605	01-Nov-13	11012013-001.SSF	482216.7041	3188
722301.057	4294379.862	6460	01-Nov-13	11012013-001.SSF	482217.7681	3189
722300.973	4294379.871	6483	01-Nov-13	11012013-001.SSF	482218.7031	3190
722301.135	4294379.912	6069	01-Nov-13	11012013-001.SSF	482219.7251	3191
722301.384	4294380.272	6159	01-Nov-13	11012013-001.SSF	482220.6528	3192
722301.828	4294380.783	6562	01-Nov-13	11012013-001.SSF	482221.7339	3193
722301.933	4294381.17	6466	01-Nov-13	11012013-001.SSF	482222.6519	3194
722301.604	4294381.43	6232	01-Nov-13	11012013-001.SSF	482223.7461	3195
722301.346	4294381.756	6400	01-Nov-13	11012013-001.SSF	482224.6411	3196
722301.289	4294382.269	6075	01-Nov-13	11012013-001.SSF	482225.71	3197
722300.901	4294382.566	6169	01-Nov-13	11012013-001.SSF	482226.6201	3198
722300.62	4294382.802	5443	01-Nov-13	11012013-001.SSF	482227.7729	3199
722300.445	4294383.271	5829	01-Nov-13	11012013-001.SSF	482228.6338	3200
722300.385	4294384.186	6083	01-Nov-13	11012013-001.SSF	482229.6938	3201
722300.57	4294384.667	5859	01-Nov-13	11012013-001.SSF	482230.7041	3202
722301.03	4294384.869	6183	01-Nov-13	11012013-001.SSF	482231.7671	3203

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722301.68	4294384.786	6553	01-Nov-13	11012013-001.SSF	482232.708	3204
722302.068	4294384.74	6026	01-Nov-13	11012013-001.SSF	482233.7661	3205
722302.141	4294384.823	5992	01-Nov-13	11012013-001.SSF	482234.7358	3206
722302.243	4294384.73	6040	01-Nov-13	11012013-001.SSF	482235.7041	3207
722302.711	4294384.999	6172	01-Nov-13	11012013-001.SSF	482236.666	3208
722303.278	4294385.069	6284	01-Nov-13	11012013-001.SSF	482237.748	3209
722303.648	4294385.281	7007	01-Nov-13	11012013-001.SSF	482238.6509	3210
722303.982	4294385.649	7054	01-Nov-13	11012013-001.SSF	482239.7661	3211
722304.304	4294385.643	6728	01-Nov-13	11012013-001.SSF	482240.6631	3212
722304.531	4294385.283	7002	01-Nov-13	11012013-001.SSF	482241.7202	3213
722304.506	4294384.94	6781	01-Nov-13	11012013-001.SSF	482242.665	3214
722304.474	4294384.528	6716	01-Nov-13	11012013-001.SSF	482243.748	3215
722304.479	4294384.39	6440	01-Nov-13	11012013-001.SSF	482244.7261	3216
722304.655	4294384.448	6458	01-Nov-13	11012013-001.SSF	482245.7441	3217
722304.764	4294384.291	7120	01-Nov-13	11012013-001.SSF	482246.6582	3218
722304.81	4294384.235	6487	01-Nov-13	11012013-001.SSF	482247.7358	3219
722304.942	4294384.321	6754	01-Nov-13	11012013-001.SSF	482248.7041	3220
722305.041	4294384.463	6334	01-Nov-13	11012013-001.SSF	482249.7881	3221
722305.064	4294384.556	5895	01-Nov-13	11012013-001.SSF	482250.624	3222
722305.091	4294384.692	5843	01-Nov-13	11012013-001.SSF	482251.687	3223
722305.107	4294384.829	6909	01-Nov-13	11012013-001.SSF	482252.6118	3224
722305.084	4294385.065	6601	01-Nov-13	11012013-001.SSF	482253.73	3225
722305.082	4294385.221	6368	01-Nov-13	11012013-001.SSF	482254.6162	3226
722305.126	4294385.112	6552	01-Nov-13	11012013-001.SSF	482255.7422	3227
722305.351	4294384.785	6783	01-Nov-13	11012013-001.SSF	482256.6958	3228
722305.864	4294384.302	6763	01-Nov-13	11012013-001.SSF	482257.7041	3229
722306.459	4294383.937	7074	01-Nov-13	11012013-001.SSF	482258.7261	3230
722306.755	4294383.795	6769	01-Nov-13	11012013-001.SSF	482259.7222	3231
722306.817	4294383.527	6920	01-Nov-13	11012013-001.SSF	482260.584	3232
722306.899	4294383.071	7087	01-Nov-13	11012013-001.SSF	482261.71	3233
722307.045	4294382.884	6656	01-Nov-13	11012013-001.SSF	482262.6699	3234
722307.207	4294382.695	7172	01-Nov-13	11012013-001.SSF	482263.7109	3235
722307.338	4294382.5	6659	01-Nov-13	11012013-001.SSF	482264.7041	3236
722307.266	4294382.112	6633	01-Nov-13	11012013-001.SSF	482265.7261	3237
722306.911	4294381.71	6663	01-Nov-13	11012013-001.SSF	482266.7271	3238
722306.655	4294381.234	6358	01-Nov-13	11012013-001.SSF	482267.729	3239
722306.502	4294380.905	6291	01-Nov-13	11012013-001.SSF	482268.687	3240
722306.396	4294380.76	6209	01-Nov-13	11012013-001.SSF	482269.7729	3241
722306.433	4294380.591	6545	01-Nov-13	11012013-001.SSF	482270.6328	3242
722306.388	4294380.231	5916	01-Nov-13	11012013-001.SSF	482271.665	3243
722306.035	4294379.55	5848	01-Nov-13	11012013-001.SSF	482272.603	3244
722305.398	4294378.827	6132	01-Nov-13	11012013-001.SSF	482273.6592	3245
722304.694	4294378.335	6051	01-Nov-13	11012013-001.SSF	482274.6348	3246
722304.182	4294378.15	6209	01-Nov-13	11012013-001.SSF	482275.7061	3247
722304.075	4294378.097	6245	01-Nov-13	11012013-001.SSF	482276.5889	3248
722304.049	4294378.067	6355	01-Nov-13	11012013-001.SSF	482277.7061	3249
722304.325	4294377.939	6207	01-Nov-13	11012013-001.SSF	482278.5991	3250

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722304.347	4294377.72	6071	01-Nov-13	11012013-001.SSF	482279.688	3251
722304.041	4294377.284	6017	01-Nov-13	11012013-001.SSF	482280.5918	3252
722304.024	4294376.916	6535	01-Nov-13	11012013-001.SSF	482281.7261	3253
722304.08	4294376.912	6196	01-Nov-13	11012013-001.SSF	482282.5898	3254
722303.891	4294376.716	6515	01-Nov-13	11012013-001.SSF	482283.7339	3255
722303.457	4294376.534	6544	01-Nov-13	11012013-001.SSF	482284.564	3256
722302.859	4294376.263	5916	01-Nov-13	11012013-001.SSF	482285.645	3257
722302.622	4294376.016	6118	01-Nov-13	11012013-001.SSF	482286.5518	3258
722302.439	4294375.868	6269	01-Nov-13	11012013-001.SSF	482287.6592	3259
722302.146	4294375.701	6751	01-Nov-13	11012013-001.SSF	482288.5991	3260
722301.952	4294375.515	6685	01-Nov-13	11012013-001.SSF	482289.73	3261
722301.883	4294375.54	6385	01-Nov-13	11012013-001.SSF	482290.5952	3262
722301.954	4294375.739	6651	01-Nov-13	11012013-001.SSF	482291.6758	3263
722302.002	4294375.523	6494	01-Nov-13	11012013-001.SSF	482292.6528	3264
722301.938	4294375.164	6585	01-Nov-13	11012013-001.SSF	482293.7471	3265
722301.976	4294375.056	6419	01-Nov-13	11012013-001.SSF	482294.627	3266
722301.974	4294374.945	6341	01-Nov-13	11012013-001.SSF	482295.7979	3267
722302.086	4294374.881	6259	01-Nov-13	11012013-001.SSF	482296.6689	3268
722302.161	4294374.934	6243	01-Nov-13	11012013-001.SSF	482297.7002	3269
722302.116	4294374.993	5852	01-Nov-13	11012013-001.SSF	482298.623	3270
722301.995	4294375.013	5691	01-Nov-13	11012013-001.SSF	482299.793	3271
722301.921	4294375	5706	01-Nov-13	11012013-001.SSF	482300.644	3272
722301.812	4294374.975	5917	01-Nov-13	11012013-001.SSF	482301.7412	3273
722301.723	4294374.942	5938	01-Nov-13	11012013-001.SSF	482302.6421	3274
722301.64	4294374.894	6303	01-Nov-13	11012013-001.SSF	482303.707	3275
722301.613	4294374.772	6027	01-Nov-13	11012013-001.SSF	482304.604	3276
722301.563	4294374.655	5850	01-Nov-13	11012013-001.SSF	482305.7422	3277
722301.518	4294374.661	6246	01-Nov-13	11012013-001.SSF	482306.6851	3278
722301.455	4294374.696	6123	01-Nov-13	11012013-001.SSF	482307.8008	3279
722301.419	4294374.682	6009	01-Nov-13	11012013-001.SSF	482308.6992	3280
722301.351	4294374.686	5960	01-Nov-13	11012013-001.SSF	482309.7012	3281
722301.271	4294374.709	6007	01-Nov-13	11012013-001.SSF	482310.627	3282
722301.182	4294374.714	5891	01-Nov-13	11012013-001.SSF	482311.73	3283
722301.132	4294374.704	6029	01-Nov-13	11012013-001.SSF	482312.6011	3284
722301.082	4294374.714	6136	01-Nov-13	11012013-001.SSF	482313.6338	3285
722301.032	4294374.74	6159	01-Nov-13	11012013-001.SSF	482314.5601	3286
722300.965	4294374.771	6179	01-Nov-13	11012013-001.SSF	482315.667	3287
722300.904	4294374.792	6483	01-Nov-13	11012013-001.SSF	482316.6509	3288
722300.84	4294374.81	6557	01-Nov-13	11012013-001.SSF	482317.665	3289
722300.772	4294374.829	6297	01-Nov-13	11012013-001.SSF	482318.6821	3290
722300.691	4294374.846	6294	01-Nov-13	11012013-001.SSF	482319.7271	3291
722300.624	4294374.857	5798	01-Nov-13	11012013-001.SSF	482320.6782	3292
722300.556	4294374.878	6186	01-Nov-13	11012013-001.SSF	482321.7261	3293
722300.527	4294374.878	5752	01-Nov-13	11012013-001.SSF	482322.6499	3294
722300.5	4294374.869	5845	01-Nov-13	11012013-001.SSF	482323.6851	3295
722300.473	4294374.876	6325	01-Nov-13	11012013-001.SSF	482324.6582	3296
722300.426	4294374.879	6160	01-Nov-13	11012013-001.SSF	482325.7148	3297

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722300.393	4294374.863	6210	01-Nov-13	11012013-001.SSF	482326.6172	3298
722300.374	4294374.87	6403	01-Nov-13	11012013-001.SSF	482327.7061	3299
722300.383	4294374.823	6782	01-Nov-13	11012013-001.SSF	482328.6201	3300
722300.415	4294374.722	6799	01-Nov-13	11012013-001.SSF	482329.7432	3301
722300.443	4294374.654	6217	01-Nov-13	11012013-001.SSF	482330.667	3302
722300.459	4294374.567	6467	01-Nov-13	11012013-001.SSF	482331.687	3303
722300.461	4294374.436	6127	01-Nov-13	11012013-001.SSF	482332.6318	3304
722300.344	4294374.436	6506	01-Nov-13	11012013-001.SSF	482333.7168	3305
722300.077	4294374.47	6562	01-Nov-13	11012013-001.SSF	482334.6431	3306
722299.769	4294374.25	6699	01-Nov-13	11012013-001.SSF	482335.6528	3307
722299.504	4294373.899	6288	01-Nov-13	11012013-001.SSF	482336.564	3308
722298.856	4294373.658	6214	01-Nov-13	11012013-001.SSF	482337.6382	3309
722298.169	4294373.415	5955	01-Nov-13	11012013-001.SSF	482338.603	3310
722297.29	4294373.088	6282	01-Nov-13	11012013-001.SSF	482339.6211	3311
722296.451	4294372.773	6969	01-Nov-13	11012013-001.SSF	482340.5972	3312
722295.754	4294372.225	7152	01-Nov-13	11012013-001.SSF	482341.6909	3313
722295.018	4294371.617	7301	01-Nov-13	11012013-001.SSF	482342.644	3314
722294.286	4294371.009	7556	01-Nov-13	11012013-001.SSF	482343.6909	3315
722293.843	4294370.611	7745	01-Nov-13	11012013-001.SSF	482344.5942	3316
722293.225	4294370.26	7634	01-Nov-13	11012013-001.SSF	482345.7251	3317
722292.641	4294370.207	7864	01-Nov-13	11012013-001.SSF	482346.5869	3318
722291.811	4294369.909	7506	01-Nov-13	11012013-001.SSF	482347.6748	3319
722290.962	4294369.57	8730	01-Nov-13	11012013-001.SSF	482348.603	3320
722289.989	4294369.265	8503	01-Nov-13	11012013-001.SSF	482349.728	3321
722289.239	4294368.944	8345	01-Nov-13	11012013-001.SSF	482350.5649	3322
722288.175	4294368.541	8954	01-Nov-13	11012013-001.SSF	482351.6392	3323
722287.205	4294368.35	8501	01-Nov-13	11012013-001.SSF	482352.5498	3324
722285.95	4294368.052	8209	01-Nov-13	11012013-001.SSF	482353.6382	3325
722285.085	4294367.772	7948	01-Nov-13	11012013-001.SSF	482354.519	3326
722284.031	4294367.566	7898	01-Nov-13	11012013-001.SSF	482355.6289	3327
722283.307	4294367.204	8485	01-Nov-13	11012013-001.SSF	482356.5879	3328
722282.778	4294366.703	8140	01-Nov-13	11012013-001.SSF	482357.6411	3329
722282.248	4294366.432	7759	01-Nov-13	11012013-001.SSF	482358.5879	3330
722281.429	4294366.252	7724	01-Nov-13	11012013-001.SSF	482359.6089	3331
722280.771	4294366.062	7922	01-Nov-13	11012013-001.SSF	482360.5342	3332
722280.27	4294365.99	7959	01-Nov-13	11012013-001.SSF	482361.6592	3333
722279.942	4294366.135	7597	01-Nov-13	11012013-001.SSF	482362.5972	3334
722279.691	4294366.25	7655	01-Nov-13	11012013-001.SSF	482363.603	3335
722279.517	4294366.281	7794	01-Nov-13	11012013-001.SSF	482364.522	3336
722279.329	4294366.32	7309	01-Nov-13	11012013-001.SSF	482365.6558	3337
722279.182	4294366.378	7253	01-Nov-13	11012013-001.SSF	482366.5781	3338
722279.044	4294366.448	7162	01-Nov-13	11012013-001.SSF	482367.6089	3339
722278.913	4294366.477	7816	01-Nov-13	11012013-001.SSF	482368.6152	3340
722278.645	4294366.234	7741	01-Nov-13	11012013-001.SSF	482369.6392	3341
722277.966	4294366.009	7857	01-Nov-13	11012013-001.SSF	482370.5908	3342
722277.058	4294365.917	6729	01-Nov-13	11012013-001.SSF	482371.6929	3343
722276.45	4294365.816	7018	01-Nov-13	11012013-001.SSF	482372.6001	3344

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722275.994	4294365.486	7787	01-Nov-13	11012013-001.SSF	482373.605	3345
722275.568	4294364.948	7148	01-Nov-13	11012013-001.SSF	482374.5928	3346
722274.975	4294364.192	7778	01-Nov-13	11012013-001.SSF	482375.7231	3347
722274.516	4294363.513	7892	01-Nov-13	11012013-001.SSF	482376.627	3348
722273.95	4294362.613	8114	01-Nov-13	11012013-001.SSF	482377.6548	3349
722273.365	4294361.795	7969	01-Nov-13	11012013-001.SSF	482378.5581	3350
722272.841	4294361.3	7880	01-Nov-13	11012013-001.SSF	482379.6528	3351
722272.533	4294361.079	7995	01-Nov-13	11012013-001.SSF	482380.6001	3352
722272.155	4294360.965	7549	01-Nov-13	11012013-001.SSF	482381.6309	3353
722271.795	4294360.827	7792	01-Nov-13	11012013-001.SSF	482382.6362	3354
722271.391	4294360.575	7781	01-Nov-13	11012013-001.SSF	482383.6328	3355
722271.157	4294360.275	7804	01-Nov-13	11012013-001.SSF	482384.5581	3356
722270.761	4294359.54	7997	01-Nov-13	11012013-001.SSF	482385.7261	3357
722270.066	4294358.745	7986	01-Nov-13	11012013-001.SSF	482386.6201	3358
722269.085	4294357.82	8594	01-Nov-13	11012013-001.SSF	482387.6758	3359
722268.305	4294357.034	8479	01-Nov-13	11012013-001.SSF	482388.564	3360
722267.513	4294355.895	8032	01-Nov-13	11012013-001.SSF	482389.6851	3361
722266.984	4294355.083	7855	01-Nov-13	11012013-001.SSF	482390.6201	3362
722266.395	4294354.438	7553	01-Nov-13	11012013-001.SSF	482391.7041	3363
722265.918	4294353.927	7886	01-Nov-13	11012013-001.SSF	482392.6479	3364
722265.535	4294353.642	8456	01-Nov-13	11012013-001.SSF	482393.7451	3365
722265.284	4294353.467	8776	01-Nov-13	11012013-001.SSF	482394.6221	3366
722265.087	4294353.361	8424	01-Nov-13	11012013-001.SSF	482395.749	3367
722265.017	4294353.294	8923	01-Nov-13	11012013-001.SSF	482396.647	3368
722264.984	4294353.176	8724	01-Nov-13	11012013-001.SSF	482397.7148	3369
722264.928	4294353.097	8387	01-Nov-13	11012013-001.SSF	482398.6499	3370
722264.875	4294353.09	7485	01-Nov-13	11012013-001.SSF	482399.6499	3371
722264.849	4294353.08	7563	01-Nov-13	11012013-001.SSF	482400.5771	3372
722264.831	4294353.035	7464	01-Nov-13	11012013-001.SSF	482401.6309	3373
722264.838	4294352.987	7851	01-Nov-13	11012013-001.SSF	482402.6221	3374
722264.887	4294352.922	7446	01-Nov-13	11012013-001.SSF	482403.709	3375
722264.894	4294352.901	7368	01-Nov-13	11012013-001.SSF	482404.6021	3376
722264.876	4294352.909	7174	01-Nov-13	11012013-001.SSF	482405.6812	3377
722264.9	4294352.912	7988	01-Nov-13	11012013-001.SSF	482406.6411	3378
722264.934	4294352.904	8175	01-Nov-13	11012013-001.SSF	482407.6538	3379
722264.963	4294352.869	7921	01-Nov-13	11012013-001.SSF	482408.6362	3380
722264.94	4294352.664	8093	01-Nov-13	11012013-001.SSF	482409.6289	3381
722264.885	4294352.327	7695	01-Nov-13	11012013-001.SSF	482410.6079	3382
722264.778	4294352.194	8288	01-Nov-13	11012013-001.SSF	482411.71	3383
722264.626	4294352.186	7767	01-Nov-13	11012013-001.SSF	482412.5952	3384
722264.494	4294352.164	7961	01-Nov-13	11012013-001.SSF	482413.6431	3385
722264.47	4294352.185	8565	01-Nov-13	11012013-001.SSF	482414.5381	3386
722264.391	4294352.354	8366	01-Nov-13	11012013-001.SSF	482415.6162	3387
722264.37	4294352.482	8343	01-Nov-13	11012013-001.SSF	482416.6211	3388
722264.018	4294352.616	8623	01-Nov-13	11012013-001.SSF	482417.6318	3389
722263.424	4294352.768	8285	01-Nov-13	11012013-001.SSF	482418.5459	3390
722262.498	4294352.839	8125	01-Nov-13	11012013-001.SSF	482419.6582	3391

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722261.612	4294352.83	7435	01-Nov-13	11012013-001.SSF	482420.522	3392
722260.46	4294352.853	7205	01-Nov-13	11012013-001.SSF	482421.5752	3393
722259.451	4294352.858	7487	01-Nov-13	11012013-001.SSF	482422.5649	3394
722258.348	4294352.816	7916	01-Nov-13	11012013-001.SSF	482423.6528	3395
722257.558	4294352.776	7385	01-Nov-13	11012013-001.SSF	482424.5259	3396
722256.395	4294352.731	7184	01-Nov-13	11012013-001.SSF	482425.707	3397
722255.327	4294352.801	7776	01-Nov-13	11012013-001.SSF	482426.6069	3398
722253.914	4294352.978	7651	01-Nov-13	11012013-001.SSF	482427.6611	3399
722252.832	4294353.155	8459	01-Nov-13	11012013-001.SSF	482428.5811	3400
722251.575	4294353.518	8163	01-Nov-13	11012013-001.SSF	482429.6821	3401
722250.45	4294353.912	8379	01-Nov-13	11012013-001.SSF	482430.5771	3402
722249.362	4294354.244	8201	01-Nov-13	11012013-001.SSF	482431.6821	3403
722248.654	4294354.14	8460	01-Nov-13	11012013-001.SSF	482432.5142	3404
722247.56	4294353.696	8471	01-Nov-13	11012013-001.SSF	482433.6172	3405
722246.528	4294353.292	8380	01-Nov-13	11012013-001.SSF	482434.5469	3406
722245.093	4294353.109	7856	01-Nov-13	11012013-001.SSF	482435.7432	3407
722243.956	4294353.177	6931	01-Nov-13	11012013-001.SSF	482436.6328	3408
722242.701	4294353.042	6854	01-Nov-13	11012013-001.SSF	482437.6758	3409
722241.834	4294352.76	6180	01-Nov-13	11012013-001.SSF	482438.6152	3410
722240.809	4294352.189	6708	01-Nov-13	11012013-001.SSF	482439.7178	3411
722240.214	4294351.572	6646	01-Nov-13	11012013-001.SSF	482440.5718	3412
722239.612	4294350.973	6573	01-Nov-13	11012013-001.SSF	482441.6792	3413
722238.893	4294350.587	6000	01-Nov-13	11012013-001.SSF	482442.5498	3414
722237.873	4294350.042	6120	01-Nov-13	11012013-001.SSF	482443.666	3415
722237.329	4294349.741	5985	01-Nov-13	11012013-001.SSF	482444.5068	3416
722236.519	4294349.23	5781	01-Nov-13	11012013-001.SSF	482445.6421	3417
722235.62	4294348.616	5877	01-Nov-13	11012013-001.SSF	482446.623	3418
722234.999	4294347.852	6133	01-Nov-13	11012013-001.SSF	482447.688	3419
722234.857	4294347.237	5700	01-Nov-13	11012013-001.SSF	482448.583	3420
722234.98	4294347.002	5538	01-Nov-13	11012013-001.SSF	482449.6401	3421
722235.065	4294346.948	5418	01-Nov-13	11012013-001.SSF	482450.5269	3422
722234.848	4294346.347	5185	01-Nov-13	11012013-001.SSF	482451.627	3423
722234.639	4294345.985	5309	01-Nov-13	11012013-001.SSF	482452.561	3424
722234.507	4294345.776	5243	01-Nov-13	11012013-001.SSF	482453.5942	3425
722234.376	4294345.591	5694	01-Nov-13	11012013-001.SSF	482454.5591	3426
722234.179	4294345.421	5693	01-Nov-13	11012013-001.SSF	482455.7241	3427
722233.926	4294345.229	5640	01-Nov-13	11012013-001.SSF	482456.5562	3428
722233.247	4294344.874	5865	01-Nov-13	11012013-001.SSF	482457.7251	3429
722232.638	4294344.602	5976	01-Nov-13	11012013-001.SSF	482458.627	3430
722231.96	4294344.311	6129	01-Nov-13	11012013-001.SSF	482459.6802	3431
722231.528	4294344.134	5637	01-Nov-13	11012013-001.SSF	482460.5249	3432
722231.119	4294343.96	5631	01-Nov-13	11012013-001.SSF	482461.6299	3433
722230.846	4294343.842	5327	01-Nov-13	11012013-001.SSF	482462.502	3434
722230.458	4294343.7	5254	01-Nov-13	11012013-001.SSF	482463.5972	3435
722230.245	4294343.787	5325	01-Nov-13	11012013-001.SSF	482464.5518	3436
722230.521	4294343.974	5223	01-Nov-13	11012013-001.SSF	482465.6719	3437
722231.214	4294343.91	5375	01-Nov-13	11012013-001.SSF	482466.5942	3438

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722232.028	4294342.489	5784	01-Nov-13	11012013-001.SSF	482468.6221	3440
722232.104	4294341.428	5969	01-Nov-13	11012013-001.SSF	482469.687	3441
722232.577	4294340.823	6125	01-Nov-13	11012013-001.SSF	482470.5239	3442
722233.424	4294340.064	5672	01-Nov-13	11012013-001.SSF	482471.605	3443
722233.785	4294339.141	5606	01-Nov-13	11012013-001.SSF	482472.5049	3444
722233.834	4294337.886	5838	01-Nov-13	11012013-001.SSF	482473.5879	3445
722233.852	4294336.932	5541	01-Nov-13	11012013-001.SSF	482474.5542	3446
722233.958	4294335.909	5802	01-Nov-13	11012013-001.SSF	482475.709	3447
722234.017	4294335.046	5573	01-Nov-13	11012013-001.SSF	482476.5542	3448
722234.035	4294333.965	5640	01-Nov-13	11012013-001.SSF	482477.6191	3449
722234.068	4294332.978	5685	01-Nov-13	11012013-001.SSF	482478.6089	3450
722234.102	4294331.936	5508	01-Nov-13	11012013-001.SSF	482479.603	3451
722234.301	4294330.901	5693	01-Nov-13	11012013-001.SSF	482480.5659	3452
722234.707	4294329.7	5722	01-Nov-13	11012013-001.SSF	482481.6489	3453
722235.126	4294328.695	5438	01-Nov-13	11012013-001.SSF	482482.5381	3454
722235.649	4294327.462	5684	01-Nov-13	11012013-001.SSF	482483.6069	3455
722235.945	4294326.39	5312	01-Nov-13	11012013-001.SSF	482484.5601	3456
722236.13	4294324.851	5268	01-Nov-13	11012013-001.SSF	482485.8901	3457
722236	4294324.022	5258	01-Nov-13	11012013-001.SSF	482486.5322	3458
722235.679	4294322.765	4960	01-Nov-13	11012013-001.SSF	482487.5112	3459
722235.363	4294321.789	5250	01-Nov-13	11012013-001.SSF	482488.498	3460
722235.056	4294321.085	5398	01-Nov-13	11012013-001.SSF	482489.561	3461
722234.9	4294320.508	5361	01-Nov-13	11012013-001.SSF	482490.542	3462
722234.854	4294320.384	5393	01-Nov-13	11012013-001.SSF	482491.626	3463
722234.801	4294320.631	5418	01-Nov-13	11012013-001.SSF	482492.5391	3464
722234.602	4294320.827	5448	01-Nov-13	11012013-001.SSF	482493.5928	3465
722234.374	4294320.933	5682	01-Nov-13	11012013-001.SSF	482494.521	3466
722234.131	4294321.163	5521	01-Nov-13	11012013-001.SSF	482495.6831	3467
722233.921	4294321.389	5543	01-Nov-13	11012013-001.SSF	482496.5332	3468
722233.637	4294321.584	5848	01-Nov-13	11012013-001.SSF	482497.665	3469
722233.459	4294321.61	5929	01-Nov-13	11012013-001.SSF	482498.5498	3470
722233.4	4294321.493	6020	01-Nov-13	11012013-001.SSF	482499.6499	3471
722233.422	4294321.215	6393	01-Nov-13	11012013-001.SSF	482500.5352	3472
722233.222	4294321.009	6131	01-Nov-13	11012013-001.SSF	482501.6431	3473
722233.037	4294320.902	5991	01-Nov-13	11012013-001.SSF	482502.5391	3474
722232.898	4294320.737	5612	01-Nov-13	11012013-001.SSF	482503.6499	3475
722232.753	4294320.524	5849	01-Nov-13	11012013-001.SSF	482504.542	3476
722232.553	4294320.355	5255	01-Nov-13	11012013-001.SSF	482505.6279	3477
722232.44	4294320.33	5618	01-Nov-13	11012013-001.SSF	482506.5908	3478
722232.366	4294320.363	5163	01-Nov-13	11012013-001.SSF	482507.5942	3479
722232.259	4294320.479	5514	01-Nov-13	11012013-001.SSF	482508.54	3480
722232.197	4294320.573	5404	01-Nov-13	11012013-001.SSF	482509.6299	3481
722232.052	4294320.68	5469	01-Nov-13	11012013-001.SSF	482510.5771	3482
722232.053	4294320.725	5649	01-Nov-13	11012013-001.SSF	482511.6768	3483
722232.01	4294320.765	5615	01-Nov-13	11012013-001.SSF	482512.6162	3484
722231.717	4294320.87	5731	01-Nov-13	11012013-001.SSF	482513.6768	3485

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722231.518	4294320.78	5116	01-Nov-13	11012013-001.SSF	482515.6411	3487
722231.617	4294320.69	4963	01-Nov-13	11012013-001.SSF	482516.562	3488
722231.685	4294320.477	5439	01-Nov-13	11012013-001.SSF	482517.623	3489
722231.764	4294320.286	5384	01-Nov-13	11012013-001.SSF	482518.5488	3490
722231.979	4294319.947	5376	01-Nov-13	11012013-001.SSF	482519.6289	3491
722232.05	4294319.666	5356	01-Nov-13	11012013-001.SSF	482520.5532	3492
722232.052	4294319.383	5480	01-Nov-13	11012013-001.SSF	482521.6279	3493
722232.076	4294319.096	5460	01-Nov-13	11012013-001.SSF	482522.5542	3494
722232.125	4294318.868	5254	01-Nov-13	11012013-001.SSF	482523.6411	3495
722232.216	4294318.761	5070	01-Nov-13	11012013-001.SSF	482524.481	3496
722232.42	4294318.581	5200	01-Nov-13	11012013-001.SSF	482525.7041	3497
722232.728	4294318.638	4927	01-Nov-13	11012013-001.SSF	482526.5811	3498
722233.07	4294318.755	5201	01-Nov-13	11012013-001.SSF	482527.6211	3499
722233.304	4294318.744	5078	01-Nov-13	11012013-001.SSF	482528.5459	3500
722233.497	4294318.704	5609	01-Nov-13	11012013-001.SSF	482529.5869	3501
722233.688	4294318.843	5570	01-Nov-13	11012013-001.SSF	482530.5029	3502
722233.975	4294318.944	5045	01-Nov-13	11012013-001.SSF	482531.5591	3503
722234.259	4294318.851	4840	01-Nov-13	11012013-001.SSF	482532.5352	3504
722234.607	4294318.739	5107	01-Nov-13	11012013-001.SSF	482533.5508	3505
722234.701	4294318.768	5205	01-Nov-13	11012013-001.SSF	482534.5308	3506
722234.685	4294318.685	5418	01-Nov-13	11012013-001.SSF	482535.627	3507
722234.636	4294318.544	5605	01-Nov-13	11012013-001.SSF	482536.6279	3508
722234.636	4294318.512	5733	01-Nov-13	11012013-001.SSF	482537.6548	3509
722234.637	4294318.459	5625	01-Nov-13	11012013-001.SSF	482538.5859	3510
722234.597	4294318.393	5226	01-Nov-13	11012013-001.SSF	482539.6909	3511
722234.579	4294318.362	5242	01-Nov-13	11012013-001.SSF	482540.5962	3512
722234.387	4294318.302	4943	01-Nov-13	11012013-001.SSF	482541.666	3513
722234.152	4294318.198	5113	01-Nov-13	11012013-001.SSF	482542.5752	3514
722233.916	4294318.204	5238	01-Nov-13	11012013-001.SSF	482543.6919	3515
722233.782	4294318.273	5407	01-Nov-13	11012013-001.SSF	482544.5029	3516
722233.585	4294318.329	5171	01-Nov-13	11012013-001.SSF	482545.707	3517
722233.38	4294318.389	5286	01-Nov-13	11012013-001.SSF	482546.5981	3518
722233.154	4294318.457	5283	01-Nov-13	11012013-001.SSF	482547.626	3519
722232.896	4294318.604	5462	01-Nov-13	11012013-001.SSF	482548.5371	3520
722232.547	4294318.706	5629	01-Nov-13	11012013-001.SSF	482549.6421	3521
722232.497	4294318.237	5911	01-Nov-13	11012013-001.SSF	482550.5249	3522
722232.727	4294317.591	5808	01-Nov-13	11012013-001.SSF	482551.6309	3523
722232.933	4294317.371	5556	01-Nov-13	11012013-001.SSF	482552.5371	3524
722232.638	4294317.431	5143	01-Nov-13	11012013-001.SSF	482553.6641	3525
722232.408	4294317.257	5323	01-Nov-13	11012013-001.SSF	482554.519	3526
722232.311	4294316.879	5641	01-Nov-13	11012013-001.SSF	482555.5811	3527
722232.263	4294316.675	5431	01-Nov-13	11012013-001.SSF	482556.5059	3528
722232.223	4294316.35	5507	01-Nov-13	11012013-001.SSF	482557.5952	3529
722232.142	4294316.193	5617	01-Nov-13	11012013-001.SSF	482558.5049	3530
722232.02	4294316.197	5560	01-Nov-13	11012013-001.SSF	482559.6289	3531
722231.961	4294316.21	5512	01-Nov-13	11012013-001.SSF	482560.5249	3532

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722231.564	4294316.438	5880	01-Nov-13	11012013-001.SSF	482563.5718	3535
722231.432	4294316.344	5602	01-Nov-13	11012013-001.SSF	482564.5132	3536
722231.242	4294316.322	5454	01-Nov-13	11012013-001.SSF	482565.6211	3537
722231.071	4294316.418	5655	01-Nov-13	11012013-001.SSF	482566.4878	3538
722230.9	4294316.49	5461	01-Nov-13	11012013-001.SSF	482567.5278	3539
722230.835	4294316.581	5726	01-Nov-13	11012013-001.SSF	482568.5371	3540
722230.804	4294316.682	5538	01-Nov-13	11012013-001.SSF	482569.5381	3541
722230.653	4294316.71	5718	01-Nov-13	11012013-001.SSF	482570.5332	3542
722230.481	4294316.809	5519	01-Nov-13	11012013-001.SSF	482571.5718	3543
722230.235	4294316.85	5774	01-Nov-13	11012013-001.SSF	482572.5498	3544
722229.888	4294316.823	6060	01-Nov-13	11012013-001.SSF	482573.6309	3545
722229.773	4294316.811	5674	01-Nov-13	11012013-001.SSF	482574.5332	3546
722229.754	4294316.691	5314	01-Nov-13	11012013-001.SSF	482575.521	3547
722229.565	4294316.606	4714	01-Nov-13	11012013-001.SSF	482576.521	3548
722229.42	4294316.611	5134	01-Nov-13	11012013-001.SSF	482577.5898	3549
722229.38	4294316.592	5407	01-Nov-13	11012013-001.SSF	482578.4639	3550
722229.246	4294316.581	5704	01-Nov-13	11012013-001.SSF	482579.521	3551
722229.048	4294316.59	5706	01-Nov-13	11012013-001.SSF	482580.4771	3552
722228.838	4294316.749	6112	01-Nov-13	11012013-001.SSF	482581.5342	3553
722229.045	4294316.604	6423	01-Nov-13	11012013-001.SSF	482582.5088	3554
722229.69	4294316.546	6455	01-Nov-13	11012013-001.SSF	482583.5791	3555
722230.308	4294316.419	6248	01-Nov-13	11012013-001.SSF	482584.542	3556
722231.135	4294316.119	5982	01-Nov-13	11012013-001.SSF	482585.6372	3557
722231.858	4294315.921	5877	01-Nov-13	11012013-001.SSF	482586.626	3558
722232.451	4294315.651	5938	01-Nov-13	11012013-001.SSF	482587.6211	3559
722232.7	4294315.392	5740	01-Nov-13	11012013-001.SSF	482588.6089	3560
722232.785	4294315.142	5854	01-Nov-13	11012013-001.SSF	482589.6831	3561
722232.872	4294314.953	5587	01-Nov-13	11012013-001.SSF	482590.5229	3562
722233.04	4294314.756	5453	01-Nov-13	11012013-001.SSF	482591.623	3563
722233.171	4294314.647	5475	01-Nov-13	11012013-001.SSF	482592.4941	3564
722233.484	4294314.602	5022	01-Nov-13	11012013-001.SSF	482593.5928	3565
722233.715	4294314.572	5562	01-Nov-13	11012013-001.SSF	482594.5112	3566
722233.767	4294314.664	5371	01-Nov-13	11012013-001.SSF	482595.585	3567
722233.825	4294314.915	5436	01-Nov-13	11012013-001.SSF	482596.5259	3568
722233.862	4294314.976	5248	01-Nov-13	11012013-001.SSF	482597.5879	3569
722233.939	4294314.916	5276	01-Nov-13	11012013-001.SSF	482598.4878	3570
722234.189	4294314.553	5030	01-Nov-13	11012013-001.SSF	482599.666	3571
722234.415	4294314.217	5057	01-Nov-13	11012013-001.SSF	482600.458	3572
722234.735	4294313.827	4772	01-Nov-13	11012013-001.SSF	482601.5371	3573
722234.964	4294313.723	5219	01-Nov-13	11012013-001.SSF	482602.5059	3574
722235.233	4294313.492	5951	01-Nov-13	11012013-001.SSF	482603.5698	3575
722235.551	4294313.114	5665	01-Nov-13	11012013-001.SSF	482604.52	3576
722235.729	4294312.998	5736	01-Nov-13	11012013-001.SSF	482605.5981	3577
722235.778	4294312.943	5259	01-Nov-13	11012013-001.SSF	482606.5098	3578
722235.899	4294312.758	5148	01-Nov-13	11012013-001.SSF	482607.5498	3579

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722235.767	4294312.264	4766	01-Nov-13	11012013-001.SSF	482610.5439	3582
722235.7	4294312.188	5058	01-Nov-13	11012013-001.SSF	482611.606	3583
722235.759	4294312.003	5470	01-Nov-13	11012013-001.SSF	482612.6089	3584
722235.913	4294311.853	5844	01-Nov-13	11012013-001.SSF	482613.6372	3585
722236.057	4294311.752	5740	01-Nov-13	11012013-001.SSF	482614.5542	3586
722236.022	4294311.767	5801	01-Nov-13	11012013-001.SSF	482615.5762	3587
722236.049	4294311.744	5280	01-Nov-13	11012013-001.SSF	482616.5122	3588
722236.25	4294311.643	5025	01-Nov-13	11012013-001.SSF	482617.522	3589
722236.414	4294311.581	5076	01-Nov-13	11012013-001.SSF	482618.5122	3590
722236.495	4294311.557	4873	01-Nov-13	11012013-001.SSF	482619.582	3591
722236.5	4294311.661	5171	01-Nov-13	11012013-001.SSF	482620.5698	3592
722236.486	4294311.623	5533	01-Nov-13	11012013-001.SSF	482621.6182	3593
722236.456	4294311.454	5610	01-Nov-13	11012013-001.SSF	482622.542	3594
722236.557	4294311.438	5105	01-Nov-13	11012013-001.SSF	482623.6572	3595
722236.678	4294311.478	5414	01-Nov-13	11012013-001.SSF	482624.4902	3596
722236.847	4294311.416	5295	01-Nov-13	11012013-001.SSF	482625.627	3597
722236.999	4294311.353	5851	01-Nov-13	11012013-001.SSF	482626.5078	3598
722237.091	4294311.346	5744	01-Nov-13	11012013-001.SSF	482627.6782	3599
722237.063	4294311.402	5758	01-Nov-13	11012013-001.SSF	482628.5352	3600
722236.893	4294311.523	5744	01-Nov-13	11012013-001.SSF	482629.6528	3601
722236.689	4294311.719	5983	01-Nov-13	11012013-001.SSF	482630.5088	3602
722236.479	4294311.94	5915	01-Nov-13	11012013-001.SSF	482631.6069	3603
722236.363	4294312.042	5375	01-Nov-13	11012013-001.SSF	482632.4639	3604
722236.376	4294311.918	5356	01-Nov-13	11012013-001.SSF	482633.5381	3605
722236.534	4294311.596	5337	01-Nov-13	11012013-001.SSF	482634.5	3606
722236.515	4294311.353	5117	01-Nov-13	11012013-001.SSF	482635.6211	3607
722236.402	4294311.265	5301	01-Nov-13	11012013-001.SSF	482636.4829	3608
722236.354	4294311.1	5276	01-Nov-13	11012013-001.SSF	482637.5762	3609
722236.359	4294311.003	5203	01-Nov-13	11012013-001.SSF	482638.4561	3610
722236.394	4294310.897	5589	01-Nov-13	11012013-001.SSF	482639.5659	3611
722236.381	4294310.843	5394	01-Nov-13	11012013-001.SSF	482640.5942	3612
722236.341	4294310.876	5494	01-Nov-13	11012013-001.SSF	482641.584	3613
722236.302	4294310.874	5415	01-Nov-13	11012013-001.SSF	482642.5562	3614
722236.203	4294310.933	5378	01-Nov-13	11012013-001.SSF	482643.6519	3615
722236.088	4294311.021	5223	01-Nov-13	11012013-001.SSF	482644.5659	3616
722235.888	4294311.038	5143	01-Nov-13	11012013-001.SSF	482645.5229	3617
722235.659	4294311.057	5360	01-Nov-13	11012013-001.SSF	482646.4878	3618
722235.461	4294311.073	5265	01-Nov-13	11012013-001.SSF	482647.5659	3619
722235.291	4294310.985	5264	01-Nov-13	11012013-001.SSF	482648.4512	3620
722235.084	4294310.877	4656	01-Nov-13	11012013-001.SSF	482649.521	3621
722234.912	4294310.835	4884	01-Nov-13	11012013-001.SSF	482650.5371	3622
722234.779	4294310.828	5252	01-Nov-13	11012013-001.SSF	482651.5239	3623
722234.711	4294310.78	5114	01-Nov-13	11012013-001.SSF	482652.5059	3624
722234.64	4294310.662	4631	01-Nov-13	11012013-001.SSF	482653.5942	3625
722234.569	4294310.558	4915	01-Nov-13	11012013-001.SSF	482654.5122	3626

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722234.529	4294310.489	5142	01-Nov-13	11012013-001.SSF	482655.543	3627
722234.453	4294310.476	5337	01-Nov-13	11012013-001.SSF	482656.438	3628
722234.329	4294310.498	5357	01-Nov-13	11012013-001.SSF	482657.54	3629
722234.246	4294310.559	5128	01-Nov-13	11012013-001.SSF	482658.458	3630
722234.141	4294310.606	5434	01-Nov-13	11012013-001.SSF	482659.5288	3631
722234.061	4294310.623	5119	01-Nov-13	11012013-001.SSF	482660.4941	3632
722234.067	4294310.618	5039	01-Nov-13	11012013-001.SSF	482661.644	3633
722234.044	4294310.641	5040	01-Nov-13	11012013-001.SSF	482662.5029	3634
722233.957	4294310.684	5032	01-Nov-13	11012013-001.SSF	482663.5811	3635
722233.939	4294310.69	5118	01-Nov-13	11012013-001.SSF	482664.4951	3636
722233.929	4294310.643	4994	01-Nov-13	11012013-001.SSF	482665.583	3637
722233.786	4294310.541	4856	01-Nov-13	11012013-001.SSF	482666.5459	3638
722233.584	4294310.413	5101	01-Nov-13	11012013-001.SSF	482667.6099	3639
722233.439	4294310.364	5104	01-Nov-13	11012013-001.SSF	482668.5708	3640
722233.308	4294310.362	5669	01-Nov-13	11012013-001.SSF	482669.6011	3641
722233.301	4294310.347	5603	01-Nov-13	11012013-001.SSF	482670.5161	3642
722233.291	4294310.327	5582	01-Nov-13	11012013-001.SSF	482671.5771	3643
722233.319	4294310.325	5412	01-Nov-13	11012013-001.SSF	482672.438	3644
722233.418	4294310.368	5324	01-Nov-13	11012013-001.SSF	482673.519	3645
722233.38	4294310.396	5252	01-Nov-13	11012013-001.SSF	482674.4878	3646
722233.373	4294310.407	4882	01-Nov-13	11012013-001.SSF	482675.5928	3647
722233.415	4294310.461	4831	01-Nov-13	11012013-001.SSF	482676.562	3648
722233.395	4294310.426	4997	01-Nov-13	11012013-001.SSF	482677.6201	3649
722233.51	4294310.344	5248	01-Nov-13	11012013-001.SSF	482678.4951	3650
722233.747	4294310.317	5517	01-Nov-13	11012013-001.SSF	482679.5972	3651
722233.913	4294310.315	5353	01-Nov-13	11012013-001.SSF	482680.481	3652
722234.137	4294310.255	4916	01-Nov-13	11012013-001.SSF	482681.5269	3653
722234.299	4294310.212	4985	01-Nov-13	11012013-001.SSF	482682.5088	3654
722234.448	4294310.159	5639	01-Nov-13	11012013-001.SSF	482683.5288	3655
722234.592	4294310.113	5617	01-Nov-13	11012013-001.SSF	482684.5122	3656
722234.729	4294310.059	5604	01-Nov-13	11012013-001.SSF	482685.606	3657
722234.838	4294310.002	5522	01-Nov-13	11012013-001.SSF	482686.4722	3658
722234.842	4294310.009	5086	01-Nov-13	11012013-001.SSF	482687.5449	3659
722234.743	4294310.047	5433	01-Nov-13	11012013-001.SSF	482688.5068	3660
722234.765	4294310.045	5456	01-Nov-13	11012013-001.SSF	482689.564	3661
722234.848	4294310.053	5439	01-Nov-13	11012013-001.SSF	482690.5059	3662
722234.832	4294310.045	4904	01-Nov-13	11012013-001.SSF	482691.5581	3663
722234.809	4294309.99	5016	01-Nov-13	11012013-001.SSF	482692.4341	3664
722234.885	4294309.929	4944	01-Nov-13	11012013-001.SSF	482693.5122	3665
722234.913	4294309.977	5008	01-Nov-13	11012013-001.SSF	482694.4399	3666
722235.062	4294310.148	4842	01-Nov-13	11012013-001.SSF	482695.562	3667
722235.007	4294310.185	5206	01-Nov-13	11012013-001.SSF	482696.5029	3668
722234.752	4294310.12	4916	01-Nov-13	11012013-001.SSF	482697.5698	3669
722234.632	4294310.05	5045	01-Nov-13	11012013-001.SSF	482698.4629	3670
722234.346	4294309.96	5283	01-Nov-13	11012013-001.SSF	482699.5078	3671
722234.147	4294309.885	5416	01-Nov-13	11012013-001.SSF	482700.4531	3672
722234.15	4294309.909	5499	01-Nov-13	11012013-001.SSF	482701.5371	3673

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.111	4294310.048	5748	01-Nov-13	11012013-001.SSF	482702.5288	3674
722234.002	4294310.261	5191	01-Nov-13	11012013-001.SSF	482703.5962	3675
722234.087	4294310.45	5470	01-Nov-13	11012013-001.SSF	482704.437	3676
722234.064	4294310.531	5251	01-Nov-13	11012013-001.SSF	482705.4951	3677
722233.846	4294310.45	5376	01-Nov-13	11012013-001.SSF	482706.4429	3678
722233.713	4294310.319	5679	01-Nov-13	11012013-001.SSF	482707.5239	3679
722233.595	4294310.229	5557	01-Nov-13	11012013-001.SSF	482708.4629	3680
722233.513	4294310.233	5368	01-Nov-13	11012013-001.SSF	482709.519	3681
722233.478	4294310.319	5166	01-Nov-13	11012013-001.SSF	482710.4619	3682
722233.476	4294310.438	5119	01-Nov-13	11012013-001.SSF	482711.5259	3683
722233.505	4294310.556	4882	01-Nov-13	11012013-001.SSF	482712.4731	3684
722233.592	4294310.74	4906	01-Nov-13	11012013-001.SSF	482713.5669	3685
722233.646	4294310.88	4859	01-Nov-13	11012013-001.SSF	482714.4629	3686
722233.679	4294311.01	4998	01-Nov-13	11012013-001.SSF	482715.5962	3687
722233.689	4294311.085	5001	01-Nov-13	11012013-001.SSF	482716.52	3688
722233.669	4294311.158	5370	01-Nov-13	11012013-001.SSF	482717.5781	3689
722233.635	4294311.213	5113	01-Nov-13	11012013-001.SSF	482718.457	3690
722233.545	4294311.391	5013	01-Nov-13	11012013-001.SSF	482719.6489	3691
722233.461	4294311.566	5422	01-Nov-13	11012013-001.SSF	482720.5371	3692
722233.381	4294311.694	5495	01-Nov-13	11012013-001.SSF	482721.6001	3693
722233.272	4294311.807	5153	01-Nov-13	11012013-001.SSF	482722.4922	3694
722233.104	4294311.999	5058	01-Nov-13	11012013-001.SSF	482723.603	3695
722232.98	4294312.174	4795	01-Nov-13	11012013-001.SSF	482724.5352	3696
722232.855	4294312.35	4587	01-Nov-13	11012013-001.SSF	482725.5581	3697
722232.764	4294312.464	4905	01-Nov-13	11012013-001.SSF	482726.439	3698
722232.69	4294312.473	5174	01-Nov-13	11012013-001.SSF	482727.5889	3699
722232.658	4294312.421	4935	01-Nov-13	11012013-001.SSF	482728.4351	3700
722232.66	4294312.377	4643	01-Nov-13	11012013-001.SSF	482729.542	3701
722232.712	4294312.409	5124	01-Nov-13	11012013-001.SSF	482730.457	3702
722232.767	4294312.568	4817	01-Nov-13	11012013-001.SSF	482731.4971	3703
722232.829	4294312.733	5470	01-Nov-13	11012013-001.SSF	482732.4048	3704
722232.977	4294312.885	5574	01-Nov-13	11012013-001.SSF	482733.5562	3705
722233.158	4294312.861	5033	01-Nov-13	11012013-001.SSF	482734.3931	3706
722233.483	4294312.691	5156	01-Nov-13	11012013-001.SSF	482735.5171	3707
722233.74	4294312.581	4962	01-Nov-13	11012013-001.SSF	482736.4492	3708
722234.014	4294312.442	5109	01-Nov-13	11012013-001.SSF	482737.564	3709
722234.202	4294312.314	5041	01-Nov-13	11012013-001.SSF	482738.4399	3710
722234.341	4294312.215	5010	01-Nov-13	11012013-001.SSF	482739.5098	3711
722234.293	4294312.317	4731	01-Nov-13	11012013-001.SSF	482740.5249	3712
722234.127	4294312.462	4603	01-Nov-13	11012013-001.SSF	482741.5952	3713
722234.068	4294312.581	5034	01-Nov-13	11012013-001.SSF	482742.4722	3714
722234.092	4294312.752	5142	01-Nov-13	11012013-001.SSF	482743.5942	3715
722234.097	4294312.89	5472	01-Nov-13	11012013-001.SSF	482744.4961	3716
722234.111	4294312.912	5620	01-Nov-13	11012013-001.SSF	482745.6211	3717
722234.12	4294312.898	5659	01-Nov-13	11012013-001.SSF	482746.5068	3718
722234.103	4294312.947	5470	01-Nov-13	11012013-001.SSF	482747.6099	3719
722234.062	4294313.022	5507	01-Nov-13	11012013-001.SSF	482748.5229	3720

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722233.993	4294313.149	5580	01-Nov-13	11012013-001.SSF	482749.5479	3721
722233.941	4294313.246	5343	01-Nov-13	11012013-001.SSF	482750.519	3722
722233.922	4294313.299	5451	01-Nov-13	11012013-001.SSF	482751.5518	3723
722233.905	4294313.325	5218	01-Nov-13	11012013-001.SSF	482752.4531	3724
722233.89	4294313.338	4630	01-Nov-13	11012013-001.SSF	482753.5488	3725
722233.881	4294313.343	4704	01-Nov-13	11012013-001.SSF	482754.4819	3726
722233.898	4294313.31	4716	01-Nov-13	11012013-001.SSF	482755.541	3727
722233.952	4294313.239	4647	01-Nov-13	11012013-001.SSF	482756.4551	3728
722233.982	4294313.136	5324	01-Nov-13	11012013-001.SSF	482757.54	3729
722233.953	4294313.017	4555	01-Nov-13	11012013-001.SSF	482758.4639	3730
722233.937	4294312.912	4609	01-Nov-13	11012013-001.SSF	482759.4639	3731
722233.952	4294312.903	5233	01-Nov-13	11012013-001.SSF	482760.5391	3732
722233.977	4294312.882	4481	01-Nov-13	11012013-001.SSF	482761.5269	3733
722234.023	4294312.805	4635	01-Nov-13	11012013-001.SSF	482762.4771	3734
722234.086	4294312.742	5367	01-Nov-13	11012013-001.SSF	482763.5781	3735
722234.032	4294312.742	5554	01-Nov-13	11012013-001.SSF	482764.5181	3736
722233.961	4294312.791	5644	01-Nov-13	11012013-001.SSF	482765.4741	3737
722233.985	4294312.865	5289	01-Nov-13	11012013-001.SSF	482766.3901	3738
722234.007	4294312.934	5300	01-Nov-13	11012013-001.SSF	482767.5151	3739
722233.971	4294312.943	5175	01-Nov-13	11012013-001.SSF	482768.4321	3740
722233.9	4294312.932	5436	01-Nov-13	11012013-001.SSF	482769.563	3741
722233.862	4294312.928	5285	01-Nov-13	11012013-001.SSF	482770.522	3742
722233.838	4294312.927	5073	01-Nov-13	11012013-001.SSF	482771.6128	3743
722233.828	4294312.937	5426	01-Nov-13	11012013-001.SSF	482772.5142	3744
722233.836	4294312.955	5107	01-Nov-13	11012013-001.SSF	482773.5581	3745
722233.815	4294312.971	4740	01-Nov-13	11012013-001.SSF	482774.4839	3746
722233.785	4294312.988	5036	01-Nov-13	11012013-001.SSF	482775.5161	3747
722233.781	4294312.994	4580	01-Nov-13	11012013-001.SSF	482776.4009	3748
722233.748	4294312.987	4819	01-Nov-13	11012013-001.SSF	482777.4829	3749
722233.731	4294312.977	5635	01-Nov-13	11012013-001.SSF	482778.3901	3750
722233.759	4294312.928	5555	01-Nov-13	11012013-001.SSF	482779.5508	3751
722233.801	4294312.853	5187	01-Nov-13	11012013-001.SSF	482780.4351	3752
722233.746	4294312.86	5430	01-Nov-13	11012013-001.SSF	482781.563	3753
722233.733	4294312.892	5529	01-Nov-13	11012013-001.SSF	482782.458	3754
722233.888	4294312.886	5420	01-Nov-13	11012013-001.SSF	482783.6162	3755
722233.985	4294312.942	5156	01-Nov-13	11012013-001.SSF	482784.5181	3756
722234.086	4294313.036	5203	01-Nov-13	11012013-001.SSF	482785.5068	3757
722234.139	4294313.113	5581	01-Nov-13	11012013-001.SSF	482786.4209	3758
722234.14	4294313.204	5224	01-Nov-13	11012013-001.SSF	482787.5239	3759
722234.184	4294313.201	5121	01-Nov-13	11012013-001.SSF	482788.4419	3760
722234.408	4294313.134	5250	01-Nov-13	11012013-001.SSF	482789.6079	3761
722234.519	4294313.104	4581	01-Nov-13	11012013-001.SSF	482790.4751	3762
722234.542	4294313.08	4759	01-Nov-13	11012013-001.SSF	482791.4771	3763
722234.732	4294312.973	4807	01-Nov-13	11012013-001.SSF	482792.3892	3764
722287.692	4294365.523	5259	01-Nov-13	11012013-004.SSF	495792.485	3765
722287.69	4294365.522	5268	01-Nov-13	11012013-004.SSF	495793.535	3766
722287.678	4294365.525	4883	01-Nov-13	11012013-004.SSF	495794.491	3767

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.669	4294365.537	4704	01-Nov-13	11012013-004.SSF	495795.292	3768
722287.67	4294365.562	4948	01-Nov-13	11012013-004.SSF	495796.334	3769
722287.663	4294365.574	5483	01-Nov-13	11012013-004.SSF	495797.265	3770
722287.653	4294365.587	5792	01-Nov-13	11012013-004.SSF	495798.442	3771
722287.642	4294365.595	5658	01-Nov-13	11012013-004.SSF	495799.32	3772
722287.632	4294365.602	5470	01-Nov-13	11012013-004.SSF	495800.484	3773
722287.635	4294365.614	4847	01-Nov-13	11012013-004.SSF	495801.363	3774
722287.634	4294365.627	4998	01-Nov-13	11012013-004.SSF	495802.497	3775
722287.641	4294365.635	4859	01-Nov-13	11012013-004.SSF	495803.443	3776
722287.645	4294365.636	4698	01-Nov-13	11012013-004.SSF	495804.504	3777
722287.643	4294365.634	4675	01-Nov-13	11012013-004.SSF	495805.336	3778
722287.648	4294365.648	4902	01-Nov-13	11012013-004.SSF	495806.439	3779
722287.65	4294365.658	4512	01-Nov-13	11012013-004.SSF	495807.358	3780
722287.657	4294365.663	4976	01-Nov-13	11012013-004.SSF	495808.442	3781
722287.668	4294365.672	5131	01-Nov-13	11012013-004.SSF	495809.409	3782
722287.684	4294365.68	5234	01-Nov-13	11012013-004.SSF	495810.497	3783
722287.691	4294365.678	5081	01-Nov-13	11012013-004.SSF	495811.356	3784
722287.684	4294365.667	5393	01-Nov-13	11012013-004.SSF	495812.465	3785
722287.677	4294365.661	5343	01-Nov-13	11012013-004.SSF	495813.379	3786
722287.672	4294365.662	5301	01-Nov-13	11012013-004.SSF	495814.486	3787
722287.67	4294365.662	5479	01-Nov-13	11012013-004.SSF	495815.282	3788
722287.681	4294365.651	5317	01-Nov-13	11012013-004.SSF	495816.43	3789
722287.683	4294365.643	5008	01-Nov-13	11012013-004.SSF	495817.332	3790
722287.667	4294365.644	4984	01-Nov-13	11012013-004.SSF	495818.35	3791
722287.657	4294365.654	4844	01-Nov-13	11012013-004.SSF	495819.322	3792
722287.661	4294365.665	4997	01-Nov-13	11012013-004.SSF	495820.461	3793
722287.66	4294365.671	5068	01-Nov-13	11012013-004.SSF	495821.463	3794
722287.695	4294365.649	5258	01-Nov-13	11012013-004.SSF	495822.52	3795
722287.754	4294365.606	5035	01-Nov-13	11012013-004.SSF	495823.478	3796
722287.793	4294365.573	4797	01-Nov-13	11012013-004.SSF	495824.41	3797
722287.827	4294365.547	4971	01-Nov-13	11012013-004.SSF	495825.342	3798
722287.84	4294365.538	5428	01-Nov-13	11012013-004.SSF	495826.454	3799
722287.826	4294365.55	5176	01-Nov-13	11012013-004.SSF	495827.346	3800
722287.811	4294365.563	5281	01-Nov-13	11012013-004.SSF	495828.451	3801
722287.786	4294365.567	5385	01-Nov-13	11012013-004.SSF	495829.352	3802
722287.789	4294365.579	5107	01-Nov-13	11012013-004.SSF	495830.429	3803
722287.822	4294365.588	5445	01-Nov-13	11012013-004.SSF	495831.346	3804
722287.815	4294365.628	5635	01-Nov-13	11012013-004.SSF	495832.391	3805
722287.925	4294365.789	5090	01-Nov-13	11012013-004.SSF	495833.41	3806
722288.06	4294365.919	5000	01-Nov-13	11012013-004.SSF	495834.42	3807
722288.143	4294365.94	4890	01-Nov-13	11012013-004.SSF	495835.43	3808
722288.201	4294365.934	5120	01-Nov-13	11012013-004.SSF	495836.466	3809
722288.185	4294365.941	4853	01-Nov-13	11012013-004.SSF	495837.344	3810
722288.144	4294365.967	5002	01-Nov-13	11012013-004.SSF	495838.465	3811
722288.187	4294365.997	5131	01-Nov-13	11012013-004.SSF	495839.301	3812
722288.256	4294366.018	5871	01-Nov-13	11012013-004.SSF	495840.468	3813
722288.276	4294366.036	5440	01-Nov-13	11012013-004.SSF	495841.324	3814

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722234.261	4294314.256	4474	04-Nov-13	11042013-001.SSF	134961.561	3816
722234.261	4294314.252	4579	04-Nov-13	11042013-001.SSF	134962.547	3817
722234.284	4294314.227	4616	04-Nov-13	11042013-001.SSF	134963.5	3818
722234.312	4294314.203	4959	04-Nov-13	11042013-001.SSF	134964.527	3819
722234.297	4294314.21	4634	04-Nov-13	11042013-001.SSF	134965.583	3820
722234.242	4294314.238	4781	04-Nov-13	11042013-001.SSF	134966.643	3821
722234.196	4294314.256	5082	04-Nov-13	11042013-001.SSF	134967.602	3822
722234.187	4294314.262	5146	04-Nov-13	11042013-001.SSF	134968.67	3823
722234.219	4294314.265	4942	04-Nov-13	11042013-001.SSF	134969.538	3824
722234.27	4294314.261	4805	04-Nov-13	11042013-001.SSF	134970.572	3825
722234.292	4294314.24	4570	04-Nov-13	11042013-001.SSF	134971.582	3826
722234.284	4294314.249	4813	04-Nov-13	11042013-001.SSF	134972.589	3827
722234.232	4294314.27	5505	04-Nov-13	11042013-001.SSF	134973.513	3828
722234.173	4294314.288	5444	04-Nov-13	11042013-001.SSF	134974.634	3829
722234.198	4294314.286	5049	04-Nov-13	11042013-001.SSF	134975.547	3830
722234.347	4294314.415	6172	04-Nov-13	11042013-001.SSF	134981.813	3831
722234.347	4294314.415	6149	04-Nov-13	11042013-001.SSF	134981.821	3832
722234.357	4294314.432	5889	04-Nov-13	11042013-001.SSF	134982.485	3833
722234.373	4294314.458	5982	04-Nov-13	11042013-001.SSF	134983.504	3834
722234.388	4294314.483	5945	04-Nov-13	11042013-001.SSF	134984.497	3835
722234.404	4294314.509	5969	04-Nov-13	11042013-001.SSF	134985.533	3836
722234.418	4294314.533	5660	04-Nov-13	11042013-001.SSF	134986.483	3837
722234.434	4294314.558	5553	04-Nov-13	11042013-001.SSF	134987.502	3838
722234.448	4294314.581	5524	04-Nov-13	11042013-001.SSF	134988.423	3839
722234.467	4294314.613	5994	04-Nov-13	11042013-001.SSF	134989.681	3840
722234.48	4294314.634	6597	04-Nov-13	11042013-001.SSF	134990.533	3841
722234.496	4294314.66	6245	04-Nov-13	11042013-001.SSF	134991.556	3842
722234.51	4294314.683	6446	04-Nov-13	11042013-001.SSF	134992.474	3843
722234.526	4294314.71	5958	04-Nov-13	11042013-001.SSF	134993.53	3844
722234.541	4294314.735	5976	04-Nov-13	11042013-001.SSF	134994.54	3845
722234.557	4294314.761	6534	04-Nov-13	11042013-001.SSF	134995.553	3846
722234.571	4294314.785	7020	04-Nov-13	11042013-001.SSF	134996.508	3847
722234.589	4294314.814	6866	04-Nov-13	11042013-001.SSF	134997.652	3848
722234.601	4294314.834	6757	04-Nov-13	11042013-001.SSF	134998.462	3849
722234.618	4294314.862	6823	04-Nov-13	11042013-001.SSF	134999.575	3850
722234.632	4294314.885	6283	04-Nov-13	11042013-001.SSF	135000.489	3851
722234.648	4294314.911	6316	04-Nov-13	11042013-001.SSF	135001.529	3852
722234.662	4294314.935	6125	04-Nov-13	11042013-001.SSF	135002.466	3853
722234.678	4294314.961	6430	04-Nov-13	11042013-001.SSF	135003.518	3854
722234.692	4294314.984	5949	04-Nov-13	11042013-001.SSF	135004.435	3855
722234.709	4294315.012	6279	04-Nov-13	11042013-001.SSF	135005.512	3856
722234.723	4294315.035	6427	04-Nov-13	11042013-001.SSF	135006.434	3857
722234.74	4294315.063	5940	04-Nov-13	11042013-001.SSF	135007.562	3858
722234.754	4294315.087	5853	04-Nov-13	11042013-001.SSF	135008.49	3859
722234.77	4294315.112	5745	04-Nov-13	11042013-001.SSF	135009.517	3860
722234.784	4294315.136	5669	04-Nov-13	11042013-001.SSF	135010.444	3861

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.801	4294315.164	5521	04-Nov-13	11042013-001.SSF	135011.582	3862
722234.815	4294315.188	5918	04-Nov-13	11042013-001.SSF	135012.5	3863
722234.831	4294315.213	5556	04-Nov-13	11042013-001.SSF	135013.528	3864
722234.845	4294315.237	5525	04-Nov-13	11042013-001.SSF	135014.463	3865
722234.863	4294315.265	6055	04-Nov-13	11042013-001.SSF	135015.591	3866
722234.877	4294315.288	6391	04-Nov-13	11042013-001.SSF	135016.504	3867
722234.892	4294315.314	6272	04-Nov-13	11042013-001.SSF	135017.543	3868
722234.907	4294315.338	6011	04-Nov-13	11042013-001.SSF	135018.489	3869
722234.923	4294315.365	6396	04-Nov-13	11042013-001.SSF	135019.544	3870
722234.938	4294315.389	6365	04-Nov-13	11042013-001.SSF	135020.501	3871
722234.953	4294315.415	6760	04-Nov-13	11042013-001.SSF	135021.517	3872
722234.967	4294315.438	6397	04-Nov-13	11042013-001.SSF	135022.443	3873
722234.984	4294315.466	5976	04-Nov-13	11042013-001.SSF	135023.559	3874
722234.998	4294315.489	6181	04-Nov-13	11042013-001.SSF	135024.47	3875
722235.014	4294315.515	6379	04-Nov-13	11042013-001.SSF	135025.499	3876
722235.028	4294315.538	6633	04-Nov-13	11042013-001.SSF	135026.44	3877
722235.046	4294315.568	7091	04-Nov-13	11042013-001.SSF	135027.625	3878
722235.06	4294315.59	6831	04-Nov-13	11042013-001.SSF	135028.488	3879
722235.075	4294315.615	6445	04-Nov-13	11042013-001.SSF	135029.499	3880
722235.089	4294315.639	5845	04-Nov-13	11042013-001.SSF	135030.413	3881
722235.106	4294315.667	6273	04-Nov-13	11042013-001.SSF	135031.526	3882
722235.12	4294315.69	6678	04-Nov-13	11042013-001.SSF	135032.453	3883
722235.137	4294315.717	6891	04-Nov-13	11042013-001.SSF	135033.548	3884
722235.151	4294315.74	6419	04-Nov-13	11042013-001.SSF	135034.46	3885
722235.168	4294315.768	6295	04-Nov-13	11042013-001.SSF	135035.573	3886
722235.182	4294315.791	6728	04-Nov-13	11042013-001.SSF	135036.488	3887
722235.197	4294315.817	6507	04-Nov-13	11042013-001.SSF	135037.498	3888
722235.212	4294315.841	6720	04-Nov-13	11042013-001.SSF	135038.446	3889
722235.229	4294315.869	6832	04-Nov-13	11042013-001.SSF	135039.563	3890
722235.244	4294315.893	6468	04-Nov-13	11042013-001.SSF	135040.54	3891
722235.259	4294315.919	6323	04-Nov-13	11042013-001.SSF	135041.571	3892
722235.274	4294315.943	6699	04-Nov-13	11042013-001.SSF	135042.514	3893
722235.29	4294315.97	6813	04-Nov-13	11042013-001.SSF	135043.573	3894
722235.304	4294315.993	6862	04-Nov-13	11042013-001.SSF	135044.476	3895
722235.32	4294316.019	7070	04-Nov-13	11042013-001.SSF	135045.534	3896
722235.334	4294316.042	6527	04-Nov-13	11042013-001.SSF	135046.451	3897
722235.35	4294316.068	6311	04-Nov-13	11042013-001.SSF	135047.479	3898
722235.364	4294316.092	7345	04-Nov-13	11042013-001.SSF	135048.438	3899
722235.381	4294316.12	6749	04-Nov-13	11042013-001.SSF	135049.542	3900
722235.395	4294316.144	6376	04-Nov-13	11042013-001.SSF	135050.472	3901
722235.413	4294316.172	6166	04-Nov-13	11042013-001.SSF	135051.605	3902
722235.426	4294316.195	6258	04-Nov-13	11042013-001.SSF	135052.502	3903
722235.442	4294316.221	5815	04-Nov-13	11042013-001.SSF	135053.556	3904
722235.456	4294316.244	6241	04-Nov-13	11042013-001.SSF	135054.474	3905
722235.473	4294316.272	6413	04-Nov-13	11042013-001.SSF	135055.586	3906
722235.487	4294316.295	6435	04-Nov-13	11042013-001.SSF	135056.503	3907
722235.503	4294316.321	5997	04-Nov-13	11042013-001.SSF	135057.54	3908

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722235.517	4294316.344	5841	04-Nov-13	11042013-001.SSF	135058.451	3909
722235.533	4294316.371	5933	04-Nov-13	11042013-001.SSF	135059.49	3910
722235.547	4294316.394	5932	04-Nov-13	11042013-001.SSF	135060.405	3911
722235.564	4294316.422	6067	04-Nov-13	11042013-001.SSF	135061.531	3912
722235.578	4294316.446	6480	04-Nov-13	11042013-001.SSF	135062.469	3913
722235.594	4294316.471	7140	04-Nov-13	11042013-001.SSF	135063.48	3914
722235.609	4294316.495	6693	04-Nov-13	11042013-001.SSF	135064.448	3915
722235.625	4294316.522	6540	04-Nov-13	11042013-001.SSF	135065.507	3916
722235.639	4294316.545	6596	04-Nov-13	11042013-001.SSF	135066.423	3917
722235.656	4294316.573	7018	04-Nov-13	11042013-001.SSF	135067.536	3918
722235.67	4294316.597	6977	04-Nov-13	11042013-001.SSF	135068.467	3919
722235.685	4294316.622	6767	04-Nov-13	11042013-001.SSF	135069.479	3920
722235.699	4294316.645	6529	04-Nov-13	11042013-001.SSF	135070.393	3921
722235.717	4294316.674	6230	04-Nov-13	11042013-001.SSF	135071.539	3922
722235.731	4294316.697	6182	04-Nov-13	11042013-001.SSF	135072.449	3923
722235.748	4294316.725	6229	04-Nov-13	11042013-001.SSF	135073.562	3924
722235.761	4294316.746	6766	04-Nov-13	11042013-001.SSF	135074.403	3925
722235.778	4294316.774	6641	04-Nov-13	11042013-001.SSF	135075.521	3926
722235.792	4294316.798	6930	04-Nov-13	11042013-001.SSF	135076.45	3927
722235.808	4294316.824	6238	04-Nov-13	11042013-001.SSF	135077.483	3928
722235.822	4294316.847	5939	04-Nov-13	11042013-001.SSF	135078.399	3929
722235.84	4294316.876	6655	04-Nov-13	11042013-001.SSF	135079.576	3930
722283.037	4294394.691	6046	04-Nov-13	11042013-001.SSF	138170.3601	3931
722283.054	4294394.719	6476	04-Nov-13	11042013-001.SSF	138171.4761	3932
722283.068	4294394.742	6575	04-Nov-13	11042013-001.SSF	138172.394	3933
722283.084	4294394.769	6443	04-Nov-13	11042013-001.SSF	138173.478	3934
722283.098	4294394.792	6369	04-Nov-13	11042013-001.SSF	138174.3889	3935
722283.116	4294394.821	6605	04-Nov-13	11042013-001.SSF	138175.55	3936
722283.129	4294394.844	6093	04-Nov-13	11042013-001.SSF	138176.4331	3937
722283.146	4294394.872	6210	04-Nov-13	11042013-001.SSF	138177.5491	3938
722283.16	4294394.895	6080	04-Nov-13	11042013-001.SSF	138178.46	3939
722283.176	4294394.921	6232	04-Nov-13	11042013-001.SSF	138179.5081	3940
722283.191	4294394.945	6333	04-Nov-13	11042013-001.SSF	138180.457	3941
722283.208	4294394.973	6285	04-Nov-13	11042013-001.SSF	138181.571	3942
722283.221	4294394.995	6580	04-Nov-13	11042013-001.SSF	138182.4331	3943
722283.238	4294395.023	6243	04-Nov-13	11042013-001.SSF	138183.574	3944
722283.253	4294395.047	6257	04-Nov-13	11042013-001.SSF	138184.5149	3945
722283.268	4294395.072	6227	04-Nov-13	11042013-001.SSF	138185.5071	3946
722283.282	4294395.096	6435	04-Nov-13	11042013-001.SSF	138186.4431	3947
722283.298	4294395.121	6462	04-Nov-13	11042013-001.SSF	138187.468	3948
722283.312	4294395.145	6305	04-Nov-13	11042013-001.SSF	138188.4199	3949
722283.33	4294395.174	6269	04-Nov-13	11042013-001.SSF	138189.5439	3950
722283.343	4294395.196	6428	04-Nov-13	11042013-001.SSF	138190.4529	3951
722283.36	4294395.223	6338	04-Nov-13	11042013-001.SSF	138191.5181	3952
722283.374	4294395.246	6415	04-Nov-13	11042013-001.SSF	138192.437	3953
722283.39	4294395.274	6263	04-Nov-13	11042013-001.SSF	138193.5149	3954
722283.404	4294395.296	6245	04-Nov-13	11042013-001.SSF	138194.3889	3955

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722283.412	4294395.307	6198	04-Nov-13	11042013-001.SSF	138195.469	3956
722283.401	4294395.307	6231	04-Nov-13	11042013-001.SSF	138196.416	3957
722283.371	4294395.32	6385	04-Nov-13	11042013-001.SSF	138197.4561	3958
722283.328	4294395.316	6299	04-Nov-13	11042013-001.SSF	138198.366	3959
722283.246	4294395.267	6018	04-Nov-13	11042013-001.SSF	138199.5149	3960
722283.183	4294395.216	6085	04-Nov-13	11042013-001.SSF	138200.395	3961
722283.169	4294395.19	6715	04-Nov-13	11042013-001.SSF	138201.4409	3962
722283.116	4294395.172	7130	04-Nov-13	11042013-001.SSF	138202.3799	3963
722282.845	4294395.039	6350	04-Nov-13	11042013-001.SSF	138203.436	3964
722282.534	4294394.861	5822	04-Nov-13	11042013-001.SSF	138204.3611	3965
722282.074	4294394.608	5772	04-Nov-13	11042013-001.SSF	138205.4751	3966
722281.431	4294394.174	6269	04-Nov-13	11042013-001.SSF	138206.4109	3967
722281.166	4294394.11	6534	04-Nov-13	11042013-001.SSF	138207.429	3968
722281.756	4294394.725	6517	04-Nov-13	11042013-001.SSF	138208.3879	3969
722282.102	4294394.942	6283	04-Nov-13	11042013-001.SSF	138209.446	3970
722282.243	4294394.998	6204	04-Nov-13	11042013-001.SSF	138210.3811	3971
722282.379	4294395.004	6257	04-Nov-13	11042013-001.SSF	138211.4629	3972
722282.33	4294394.996	6025	04-Nov-13	11042013-001.SSF	138212.4221	3973
722282.107	4294395.008	5586	04-Nov-13	11042013-001.SSF	138213.468	3974
722282.062	4294395.007	6277	04-Nov-13	11042013-001.SSF	138214.417	3975
722282.012	4294395.056	6171	04-Nov-13	11042013-001.SSF	138215.4971	3976
722281.97	4294395.182	6628	04-Nov-13	11042013-001.SSF	138216.4509	3977
722281.974	4294395.307	6338	04-Nov-13	11042013-001.SSF	138217.4761	3978
722281.979	4294395.375	6385	04-Nov-13	11042013-001.SSF	138218.428	3979
722281.992	4294395.377	6824	04-Nov-13	11042013-001.SSF	138219.4619	3980
722282.076	4294395.302	6718	04-Nov-13	11042013-001.SSF	138220.3831	3981
722282.518	4294395.042	6419	04-Nov-13	11042013-001.SSF	138221.4189	3982
722283.03	4294394.602	6431	04-Nov-13	11042013-001.SSF	138222.427	3983
722282.772	4294394.37	6602	04-Nov-13	11042013-001.SSF	138223.5039	3984
722282.484	4294394.514	6466	04-Nov-13	11042013-001.SSF	138224.3491	3985
722282.607	4294394.687	6202	04-Nov-13	11042013-001.SSF	138225.4939	3986
722282.516	4294394.699	6158	04-Nov-13	11042013-001.SSF	138226.324	3987
722282.268	4294394.61	5871	04-Nov-13	11042013-001.SSF	138227.4961	3988
722282.28	4294394.513	5785	04-Nov-13	11042013-001.SSF	138228.333	3989
722282.279	4294394.609	6096	04-Nov-13	11042013-001.SSF	138229.4319	3990
722282.343	4294394.901	6107	04-Nov-13	11042013-001.SSF	138230.385	3991
722282.238	4294395.094	5992	04-Nov-13	11042013-001.SSF	138231.407	3992
722281.78	4294394.93	6423	04-Nov-13	11042013-001.SSF	138232.4331	3993
722281.636	4294394.751	6185	04-Nov-13	11042013-001.SSF	138233.4741	3994
722281.739	4294394.727	6232	04-Nov-13	11042013-001.SSF	138234.397	3995
722282.082	4294394.613	6363	04-Nov-13	11042013-001.SSF	138235.502	3996
722282.111	4294394.48	6346	04-Nov-13	11042013-001.SSF	138236.448	3997
722281.746	4294394.457	6345	04-Nov-13	11042013-001.SSF	138237.488	3998
722281.442	4294394.514	6659	04-Nov-13	11042013-001.SSF	138238.447	3999
722281.14	4294394.6	6535	04-Nov-13	11042013-001.SSF	138239.5249	4000
722280.936	4294394.656	6308	04-Nov-13	11042013-001.SSF	138240.377	4001
722280.702	4294394.676	6466	04-Nov-13	11042013-001.SSF	138241.5281	4002

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722280.56	4294394.647	6337	04-Nov-13	11042013-001.SSF	138242.377	4003
722280.398	4294394.598	6024	04-Nov-13	11042013-001.SSF	138243.5161	4004
722280.305	4294394.568	5976	04-Nov-13	11042013-001.SSF	138244.3821	4005
722280.236	4294394.579	6249	04-Nov-13	11042013-001.SSF	138245.468	4006
722280.201	4294394.642	6747	04-Nov-13	11042013-001.SSF	138246.418	4007
722280.163	4294394.703	6375	04-Nov-13	11042013-001.SSF	138247.5029	4008
722280.102	4294394.708	6818	04-Nov-13	11042013-001.SSF	138248.4199	4009
722280.029	4294394.692	6633	04-Nov-13	11042013-001.SSF	138249.4131	4010
722279.979	4294394.69	6116	04-Nov-13	11042013-001.SSF	138250.3291	4011
722279.953	4294394.699	5990	04-Nov-13	11042013-001.SSF	138251.4099	4012
722280.076	4294394.824	6549	04-Nov-13	11042013-001.SSF	138252.332	4013
722280.402	4294395.082	6751	04-Nov-13	11042013-001.SSF	138253.4451	4014
722280.469	4294395.015	6602	04-Nov-13	11042013-001.SSF	138254.3411	4015
722280.259	4294394.803	6579	04-Nov-13	11042013-001.SSF	138255.438	4016
722279.991	4294394.694	6258	04-Nov-13	11042013-001.SSF	138256.3921	4017
722279.743	4294394.787	6310	04-Nov-13	11042013-001.SSF	138257.4021	4018
722279.764	4294394.996	6272	04-Nov-13	11042013-001.SSF	138258.365	4019
722279.921	4294395.18	6520	04-Nov-13	11042013-001.SSF	138259.4561	4020
722279.92	4294395.381	6607	04-Nov-13	11042013-001.SSF	138260.343	4021
722279.928	4294395.517	7024	04-Nov-13	11042013-001.SSF	138261.4319	4022
722279.945	4294395.644	7086	04-Nov-13	11042013-001.SSF	138262.293	4023
722279.796	4294395.934	7053	04-Nov-13	11042013-001.SSF	138263.3721	4024
722279.678	4294396.166	6840	04-Nov-13	11042013-001.SSF	138264.3301	4025
722279.834	4294396.176	6645	04-Nov-13	11042013-001.SSF	138265.4961	4026
722280.106	4294396.164	6040	04-Nov-13	11042013-001.SSF	138266.4519	4027
722280.385	4294396.296	6450	04-Nov-13	11042013-001.SSF	138267.4641	4028
722280.601	4294396.365	6823	04-Nov-13	11042013-001.SSF	138268.356	4029
722280.803	4294396.369	6388	04-Nov-13	11042013-001.SSF	138269.4451	4030
722280.859	4294396.571	6345	04-Nov-13	11042013-001.SSF	138270.4231	4031
722280.823	4294396.82	6149	04-Nov-13	11042013-001.SSF	138271.469	4032
722280.729	4294396.847	5761	04-Nov-13	11042013-001.SSF	138272.4221	4033
722280.769	4294396.687	6338	04-Nov-13	11042013-001.SSF	138273.428	4034
722280.897	4294396.437	6318	04-Nov-13	11042013-001.SSF	138274.3911	4035
722281.014	4294396.265	6133	04-Nov-13	11042013-001.SSF	138275.3789	4036
722281.089	4294396.16	6562	04-Nov-13	11042013-001.SSF	138276.374	4037
722281.121	4294396.142	6654	04-Nov-13	11042013-001.SSF	138277.429	4038
722281.159	4294396.211	6862	04-Nov-13	11042013-001.SSF	138278.385	4039
722281.183	4294396.259	6845	04-Nov-13	11042013-001.SSF	138279.365	4040
722281.202	4294396.286	6865	04-Nov-13	11042013-001.SSF	138280.304	4041
722281.247	4294396.298	6809	04-Nov-13	11042013-001.SSF	138281.4839	4042
722281.277	4294396.314	6567	04-Nov-13	11042013-001.SSF	138282.4141	4043
722281.313	4294396.332	6319	04-Nov-13	11042013-001.SSF	138283.3899	4044
722281.323	4294396.341	6059	04-Nov-13	11042013-001.SSF	138284.3401	4045
722281.348	4294396.345	6348	04-Nov-13	11042013-001.SSF	138285.3589	4046
722281.368	4294396.348	6046	04-Nov-13	11042013-001.SSF	138286.342	4047
722281.376	4294396.346	6798	04-Nov-13	11042013-001.SSF	138287.355	4048
722281.395	4294396.339	6366	04-Nov-13	11042013-001.SSF	138288.366	4049

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722282.421	4294395.787	5793	04-Nov-13	11042013-001.SSF	138289.4009	4050
722283.901	4294394.898	5561	04-Nov-13	11042013-001.SSF	138290.374	4051
722283.835	4294394.791	6143	04-Nov-13	11042013-001.SSF	138291.4419	4052
722283.826	4294394.778	5743	04-Nov-13	11042013-001.SSF	138292.3669	4053
722283.786	4294394.736	6373	04-Nov-13	11042013-001.SSF	138293.457	4054
722283.778	4294394.709	6697	04-Nov-13	11042013-001.SSF	138294.3359	4055
722283.758	4294394.641	6204	04-Nov-13	11042013-001.SSF	138295.46	4056
722283.734	4294394.61	6400	04-Nov-13	11042013-001.SSF	138296.3679	4057
722283.689	4294394.592	6862	04-Nov-13	11042013-001.SSF	138297.3821	4058
722283.664	4294394.604	7062	04-Nov-13	11042013-001.SSF	138298.387	4059
722283.654	4294394.628	6612	04-Nov-13	11042013-001.SSF	138299.374	4060
722283.611	4294394.589	6787	04-Nov-13	11042013-001.SSF	138300.373	4061
722283.604	4294394.558	6495	04-Nov-13	11042013-001.SSF	138301.4839	4062
722283.614	4294394.543	5941	04-Nov-13	11042013-001.SSF	138302.408	4063
722283.631	4294394.542	6176	04-Nov-13	11042013-001.SSF	138303.446	4064
722283.657	4294394.554	6534	04-Nov-13	11042013-001.SSF	138304.3579	4065
722283.663	4294394.538	6645	04-Nov-13	11042013-001.SSF	138305.4441	4066
722283.67	4294394.515	6228	04-Nov-13	11042013-001.SSF	138306.342	4067
722283.68	4294394.49	6165	04-Nov-13	11042013-001.SSF	138307.4399	4068
722283.68	4294394.456	6071	04-Nov-13	11042013-001.SSF	138308.333	4069
722283.698	4294394.433	6257	04-Nov-13	11042013-001.SSF	138309.4541	4070
722283.753	4294394.495	5972	04-Nov-13	11042013-001.SSF	138310.3391	4071
722283.791	4294394.545	6449	04-Nov-13	11042013-001.SSF	138311.3799	4072
722283.793	4294394.561	6545	04-Nov-13	11042013-001.SSF	138312.335	4073
722283.818	4294394.603	6546	04-Nov-13	11042013-001.SSF	138313.3579	4074
722283.792	4294394.591	6150	04-Nov-13	11042013-001.SSF	138314.3359	4075
722283.773	4294394.58	6339	04-Nov-13	11042013-001.SSF	138315.4131	4076
722283.731	4294394.516	6431	04-Nov-13	11042013-001.SSF	138316.3501	4077
722283.705	4294394.471	6565	04-Nov-13	11042013-001.SSF	138317.4929	4078
722283.682	4294394.442	6452	04-Nov-13	11042013-001.SSF	138318.4399	4079
722283.666	4294394.429	6629	04-Nov-13	11042013-001.SSF	138319.488	4080
722283.662	4294394.423	6549	04-Nov-13	11042013-001.SSF	138320.3621	4081
722283.666	4294394.426	6143	04-Nov-13	11042013-001.SSF	138321.363	4082
722283.687	4294394.437	6658	04-Nov-13	11042013-001.SSF	138322.3081	4083
722283.673	4294394.406	6370	04-Nov-13	11042013-001.SSF	138323.3491	4084
722283.662	4294394.397	5998	04-Nov-13	11042013-001.SSF	138324.2871	4085
722283.641	4294394.387	5969	04-Nov-13	11042013-001.SSF	138325.437	4086
722283.617	4294394.366	5900	04-Nov-13	11042013-001.SSF	138326.3689	4087
722283.585	4294394.341	6003	04-Nov-13	11042013-001.SSF	138327.427	4088
722283.558	4294394.329	6242	04-Nov-13	11042013-001.SSF	138328.3359	4089
722283.561	4294394.328	6008	04-Nov-13	11042013-001.SSF	138329.426	4090
722283.598	4294394.333	5959	04-Nov-13	11042013-001.SSF	138330.3669	4091
722283.635	4294394.336	5835	04-Nov-13	11042013-001.SSF	138331.4189	4092
722283.64	4294394.338	5757	04-Nov-13	11042013-001.SSF	138332.418	4093
722283.64	4294394.334	6283	04-Nov-13	11042013-001.SSF	138333.363	4094
722283.658	4294394.328	6557	04-Nov-13	11042013-001.SSF	138334.343	4095
722283.693	4294394.331	6298	04-Nov-13	11042013-001.SSF	138335.3799	4096

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722283.727	4294394.345	5883	04-Nov-13	11042013-001.SSF	138336.345	4097
722283.762	4294394.369	6061	04-Nov-13	11042013-001.SSF	138337.3979	4098
722283.805	4294394.405	6034	04-Nov-13	11042013-001.SSF	138338.321	4099
722283.901	4294394.546	6207	04-Nov-13	11042013-001.SSF	138339.335	4100
722284.045	4294394.697	6918	04-Nov-13	11042013-001.SSF	138340.3521	4101
722284.264	4294394.64	7169	04-Nov-13	11042013-001.SSF	138341.4829	4102
722284.399	4294394.698	6740	04-Nov-13	11042013-001.SSF	138342.3589	4103
722284.389	4294394.859	6798	04-Nov-13	11042013-001.SSF	138343.4661	4104
722284.35	4294394.902	6577	04-Nov-13	11042013-001.SSF	138344.4331	4105
722284.366	4294394.941	6624	04-Nov-13	11042013-001.SSF	138345.4709	4106
722284.426	4294395.009	6231	04-Nov-13	11042013-001.SSF	138346.3459	4107
722284.465	4294395.048	6070	04-Nov-13	11042013-001.SSF	138347.4661	4108
722284.445	4294395.023	6377	04-Nov-13	11042013-001.SSF	138348.342	4109
722284.424	4294394.99	6459	04-Nov-13	11042013-001.SSF	138349.418	4110
722284.412	4294394.977	6596	04-Nov-13	11042013-001.SSF	138350.3611	4111
722284.415	4294394.989	6387	04-Nov-13	11042013-001.SSF	138351.405	4112
722284.448	4294395.03	6675	04-Nov-13	11042013-001.SSF	138352.3279	4113
722284.458	4294395.031	6410	04-Nov-13	11042013-001.SSF	138353.386	4114
722284.461	4294395	6575	04-Nov-13	11042013-001.SSF	138354.3269	4115
722284.589	4294394.921	7073	04-Nov-13	11042013-001.SSF	138355.374	4116
722284.87	4294394.83	6964	04-Nov-13	11042013-001.SSF	138356.3411	4117
722285.155	4294395.002	6984	04-Nov-13	11042013-001.SSF	138357.364	4118
722285.282	4294395.142	6921	04-Nov-13	11042013-001.SSF	138358.3701	4119
722285.324	4294395.032	7185	04-Nov-13	11042013-001.SSF	138359.364	4120
722285.423	4294394.977	6577	04-Nov-13	11042013-001.SSF	138360.3611	4121
722285.688	4294395.176	6969	04-Nov-13	11042013-001.SSF	138361.387	4122
722286.044	4294395.413	7025	04-Nov-13	11042013-001.SSF	138362.3521	4123
722286.313	4294395.657	6711	04-Nov-13	11042013-001.SSF	138363.4309	4124
722286.498	4294396.127	6865	04-Nov-13	11042013-001.SSF	138364.3679	4125
722286.812	4294396.761	6794	04-Nov-13	11042013-001.SSF	138365.447	4126
722287.082	4294397.128	6071	04-Nov-13	11042013-001.SSF	138366.283	4127
722287.312	4294397.612	6280	04-Nov-13	11042013-001.SSF	138367.3989	4128
722287.422	4294397.974	6330	04-Nov-13	11042013-001.SSF	138368.2939	4129
722287.42	4294398.214	6545	04-Nov-13	11042013-001.SSF	138369.395	4130
722287.389	4294398.241	6577	04-Nov-13	11042013-001.SSF	138370.343	4131
722287.402	4294398.176	6909	04-Nov-13	11042013-001.SSF	138371.4641	4132
722287.371	4294398.143	6796	04-Nov-13	11042013-001.SSF	138372.3291	4133
722287.353	4294398.168	6770	04-Nov-13	11042013-001.SSF	138373.4509	4134
722287.349	4294398.185	6808	04-Nov-13	11042013-001.SSF	138374.3711	4135
722287.337	4294398.163	6912	04-Nov-13	11042013-001.SSF	138375.3589	4136
722287.345	4294398.183	7405	04-Nov-13	11042013-001.SSF	138376.3181	4137
722287.373	4294398.172	6925	04-Nov-13	11042013-001.SSF	138377.3479	4138
722287.403	4294398.168	6715	04-Nov-13	11042013-001.SSF	138378.321	4139
722287.455	4294398.229	6710	04-Nov-13	11042013-001.SSF	138379.334	4140
722287.484	4294398.322	6159	04-Nov-13	11042013-001.SSF	138380.355	4141
722287.521	4294398.491	6224	04-Nov-13	11042013-001.SSF	138381.386	4142
722287.672	4294398.706	6936	04-Nov-13	11042013-001.SSF	138382.3511	4143

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.588	4294398.842	6924	04-Nov-13	11042013-001.SSF	138383.3669	4144
722287.389	4294398.834	6407	04-Nov-13	11042013-001.SSF	138384.3	4145
722287.497	4294398.829	6574	04-Nov-13	11042013-001.SSF	138385.3081	4146
722287.709	4294398.895	6997	04-Nov-13	11042013-001.SSF	138386.2959	4147
722287.787	4294399.178	6838	04-Nov-13	11042013-001.SSF	138387.4041	4148
722287.764	4294399.485	6757	04-Nov-13	11042013-001.SSF	138388.324	4149
722287.783	4294399.717	6943	04-Nov-13	11042013-001.SSF	138389.3201	4150
722287.792	4294399.71	6823	04-Nov-13	11042013-001.SSF	138390.3291	4151
722287.705	4294399.823	7168	04-Nov-13	11042013-001.SSF	138391.417	4152
722287.634	4294399.94	6701	04-Nov-13	11042013-001.SSF	138392.3799	4153
722287.685	4294399.88	7002	04-Nov-13	11042013-001.SSF	138393.4199	4154
722287.845	4294400.004	6893	04-Nov-13	11042013-001.SSF	138394.333	4155
722287.853	4294400.189	6982	04-Nov-13	11042013-001.SSF	138395.3479	4156
722287.696	4294400.207	6935	04-Nov-13	11042013-001.SSF	138396.3459	4157
722287.597	4294400.207	6451	04-Nov-13	11042013-001.SSF	138397.416	4158
722287.715	4294400.12	6501	04-Nov-13	11042013-001.SSF	138398.3511	4159
722288.172	4294399.732	6792	04-Nov-13	11042013-001.SSF	138399.4241	4160
722288.701	4294399.605	6933	04-Nov-13	11042013-001.SSF	138400.355	4161
722288.995	4294399.781	7095	04-Nov-13	11042013-001.SSF	138401.3911	4162
722288.871	4294399.985	7133	04-Nov-13	11042013-001.SSF	138402.4009	4163
722288.717	4294400.008	7095	04-Nov-13	11042013-001.SSF	138403.4441	4164
722288.788	4294399.988	7073	04-Nov-13	11042013-001.SSF	138404.408	4165
722288.888	4294399.937	6671	04-Nov-13	11042013-001.SSF	138405.3789	4166
722288.847	4294399.884	6250	04-Nov-13	11042013-001.SSF	138406.353	4167
722288.724	4294399.889	6028	04-Nov-13	11042013-001.SSF	138407.354	4168
722288.624	4294399.899	6263	04-Nov-13	11042013-001.SSF	138408.3049	4169
722288.545	4294399.896	6718	04-Nov-13	11042013-001.SSF	138409.3899	4170
722288.492	4294399.873	6479	04-Nov-13	11042013-001.SSF	138410.374	4171
722288.455	4294399.844	6389	04-Nov-13	11042013-001.SSF	138411.4131	4172
722288.43	4294399.833	6864	04-Nov-13	11042013-001.SSF	138412.323	4173
722288.434	4294399.857	6868	04-Nov-13	11042013-001.SSF	138413.415	4174
722288.404	4294399.866	6781	04-Nov-13	11042013-001.SSF	138414.311	4175
722288.334	4294399.858	6499	04-Nov-13	11042013-001.SSF	138415.428	4176
722288.263	4294399.816	6416	04-Nov-13	11042013-001.SSF	138416.3521	4177
722288.127	4294399.789	5881	04-Nov-13	11042013-001.SSF	138417.3701	4178
722287.893	4294399.654	6510	04-Nov-13	11042013-001.SSF	138418.4661	4179
722287.647	4294399.546	6827	04-Nov-13	11042013-001.SSF	138419.406	4180
722287.473	4294399.625	6322	04-Nov-13	11042013-001.SSF	138420.3159	4181
722287.486	4294399.562	6301	04-Nov-13	11042013-001.SSF	138421.3899	4182
722287.625	4294398.879	6469	04-Nov-13	11042013-001.SSF	138422.3611	4183
722287.81	4294397.825	6061	04-Nov-13	11042013-001.SSF	138423.353	4184
722287.827	4294397.037	6417	04-Nov-13	11042013-001.SSF	138424.396	4185
722287.832	4294396.525	6152	04-Nov-13	11042013-001.SSF	138425.3669	4186
722287.911	4294396.167	6438	04-Nov-13	11042013-001.SSF	138426.4141	4187
722287.996	4294396.066	6471	04-Nov-13	11042013-001.SSF	138427.3721	4188
722288.1	4294396.172	6203	04-Nov-13	11042013-001.SSF	138428.376	4189
722288.141	4294396.276	6466	04-Nov-13	11042013-001.SSF	138429.3669	4190

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.166	4294396.351	6442	04-Nov-13	11042013-001.SSF	138430.375	4191
722288.161	4294396.37	6623	04-Nov-13	11042013-001.SSF	138431.322	4192
722288.144	4294396.407	6358	04-Nov-13	11042013-001.SSF	138432.376	4193
722288.134	4294396.447	6141	04-Nov-13	11042013-001.SSF	138433.355	4194
722288.167	4294396.495	6612	04-Nov-13	11042013-001.SSF	138434.3291	4195
722288.195	4294396.525	6809	04-Nov-13	11042013-001.SSF	138435.4199	4196
722288.186	4294396.52	6612	04-Nov-13	11042013-001.SSF	138436.2429	4197
722288.135	4294396.516	6202	04-Nov-13	11042013-001.SSF	138437.3589	4198
722288.099	4294396.527	6316	04-Nov-13	11042013-001.SSF	138438.2849	4199
722288.123	4294396.569	6342	04-Nov-13	11042013-001.SSF	138439.303	4200
722288.128	4294396.623	5952	04-Nov-13	11042013-001.SSF	138440.3569	4201
722288.131	4294396.655	5906	04-Nov-13	11042013-001.SSF	138441.3921	4202
722288.176	4294396.658	6164	04-Nov-13	11042013-001.SSF	138442.3479	4203
722288.256	4294396.637	6430	04-Nov-13	11042013-001.SSF	138443.3721	4204
722288.308	4294396.64	6639	04-Nov-13	11042013-001.SSF	138444.4099	4205
722288.314	4294396.646	6509	04-Nov-13	11042013-001.SSF	138445.4619	4206
722288.321	4294396.647	6241	04-Nov-13	11042013-001.SSF	138446.4309	4207
722288.321	4294396.655	6188	04-Nov-13	11042013-001.SSF	138447.4409	4208
722288.3	4294396.628	6256	04-Nov-13	11042013-001.SSF	138448.374	4209
722288.318	4294396.618	6264	04-Nov-13	11042013-001.SSF	138449.4021	4210
722288.309	4294396.617	6276	04-Nov-13	11042013-001.SSF	138450.3059	4211
722288.244	4294396.617	6267	04-Nov-13	11042013-001.SSF	138451.4189	4212
722288.225	4294396.638	6105	04-Nov-13	11042013-001.SSF	138452.3049	4213
722288.214	4294396.653	6307	04-Nov-13	11042013-001.SSF	138453.417	4214
722288.206	4294396.592	5985	04-Nov-13	11042013-001.SSF	138454.3259	4215
722288.334	4294396.186	6096	04-Nov-13	11042013-001.SSF	138455.4419	4216
722288.916	4294395.904	5927	04-Nov-13	11042013-001.SSF	138456.364	4217
722290.043	4294395.921	6056	04-Nov-13	11042013-001.SSF	138457.374	4218
722291.136	4294395.627	5866	04-Nov-13	11042013-001.SSF	138458.408	4219
722291.807	4294394.896	5662	04-Nov-13	11042013-001.SSF	138459.3469	4220
722292.537	4294394.004	6117	04-Nov-13	11042013-001.SSF	138460.3579	4221
722293.317	4294393.101	6171	04-Nov-13	11042013-001.SSF	138461.3931	4222
722293.813	4294392.457	6539	04-Nov-13	11042013-001.SSF	138462.3301	4223
722294.035	4294391.687	6010	04-Nov-13	11042013-001.SSF	138463.4189	4224
722294.121	4294390.904	5623	04-Nov-13	11042013-001.SSF	138464.3491	4225
722294.314	4294390.116	5885	04-Nov-13	11042013-001.SSF	138465.356	4226
722294.498	4294389.407	5778	04-Nov-13	11042013-001.SSF	138466.3081	4227
722294.566	4294388.648	5905	04-Nov-13	11042013-001.SSF	138467.3479	4228
722294.702	4294387.845	5474	04-Nov-13	11042013-001.SSF	138468.3069	4229
722295.154	4294386.877	5674	04-Nov-13	11042013-001.SSF	138469.344	4230
722295.628	4294385.995	5839	04-Nov-13	11042013-001.SSF	138470.355	4231
722296.096	4294385.166	5909	04-Nov-13	11042013-001.SSF	138471.397	4232
722296.834	4294384.441	5881	04-Nov-13	11042013-001.SSF	138472.3149	4233
722297.879	4294383.666	5753	04-Nov-13	11042013-001.SSF	138473.335	4234
722298.742	4294382.904	6063	04-Nov-13	11042013-001.SSF	138474.4009	4235
722299.421	4294382.074	6373	04-Nov-13	11042013-001.SSF	138475.3621	4236
722300.104	4294381.123	6592	04-Nov-13	11042013-001.SSF	138476.386	4237

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722300.714	4294380.368	6888	04-Nov-13	11042013-001.SSF	138477.3311	4238
722301.151	4294379.704	6132	04-Nov-13	11042013-001.SSF	138478.293	4239
722301.241	4294378.864	5369	04-Nov-13	11042013-001.SSF	138479.4241	4240
722301.435	4294378.106	5457	04-Nov-13	11042013-001.SSF	138480.3501	4241
722301.762	4294377.503	5582	04-Nov-13	11042013-001.SSF	138481.376	4242
722301.937	4294377.252	5435	04-Nov-13	11042013-001.SSF	138482.3511	4243
722301.965	4294377.268	5292	04-Nov-13	11042013-001.SSF	138483.363	4244
722301.925	4294377.354	5144	04-Nov-13	11042013-001.SSF	138484.3931	4245
722301.832	4294377.348	5646	04-Nov-13	11042013-001.SSF	138485.3501	4246
722301.8	4294377.201	5388	04-Nov-13	11042013-001.SSF	138486.3701	4247
722301.817	4294377.171	5108	04-Nov-13	11042013-001.SSF	138487.3821	4248
722301.809	4294377.309	5116	04-Nov-13	11042013-001.SSF	138488.387	4249
722301.908	4294377.311	4857	04-Nov-13	11042013-001.SSF	138489.408	4250
722302.172	4294377.174	5447	04-Nov-13	11042013-001.SSF	138490.3259	4251
722302.33	4294377.137	5591	04-Nov-13	11042013-001.SSF	138491.363	4252
722302.205	4294377.372	5230	04-Nov-13	11042013-001.SSF	138492.354	4253
722302.079	4294377.532	5079	04-Nov-13	11042013-001.SSF	138493.3721	4254
722302.017	4294377.56	4770	04-Nov-13	11042013-001.SSF	138494.3521	4255
722301.979	4294377.606	4783	04-Nov-13	11042013-001.SSF	138495.343	4256
722301.913	4294377.636	5307	04-Nov-13	11042013-001.SSF	138496.384	4257
722301.847	4294377.666	5475	04-Nov-13	11042013-001.SSF	138497.3589	4258
722301.808	4294377.685	5277	04-Nov-13	11042013-001.SSF	138498.3999	4259
722301.799	4294377.677	5608	04-Nov-13	11042013-001.SSF	138499.3601	4260
722301.785	4294377.682	5344	04-Nov-13	11042013-001.SSF	138500.3521	4261
722301.781	4294377.649	5601	04-Nov-13	11042013-001.SSF	138501.364	4262
722301.77	4294377.455	5798	04-Nov-13	11042013-001.SSF	138502.3269	4263
722301.803	4294377.317	5639	04-Nov-13	11042013-001.SSF	138503.3669	4264
722301.874	4294377.354	5662	04-Nov-13	11042013-001.SSF	138504.2629	4265
722301.872	4294377.397	5697	04-Nov-13	11042013-001.SSF	138505.4089	4266
722301.83	4294377.414	5177	04-Nov-13	11042013-001.SSF	138506.3469	4267
722301.782	4294377.46	5057	04-Nov-13	11042013-001.SSF	138507.3811	4268
722301.776	4294377.624	5079	04-Nov-13	11042013-001.SSF	138508.4309	4269
722301.858	4294377.773	5655	04-Nov-13	11042013-001.SSF	138509.418	4270
722301.928	4294377.808	5498	04-Nov-13	11042013-001.SSF	138510.335	4271
722301.94	4294377.8	5387	04-Nov-13	11042013-001.SSF	138511.3601	4272
722301.915	4294377.77	5100	04-Nov-13	11042013-001.SSF	138512.405	4273
722301.891	4294377.761	5126	04-Nov-13	11042013-001.SSF	138513.356	4274
722301.875	4294377.785	4818	04-Nov-13	11042013-001.SSF	138514.3569	4275
722301.847	4294377.79	5500	04-Nov-13	11042013-001.SSF	138515.3999	4276
722301.793	4294377.806	5404	04-Nov-13	11042013-001.SSF	138516.3611	4277
722301.7	4294377.819	5424	04-Nov-13	11042013-001.SSF	138517.363	4278
722301.638	4294377.83	5174	04-Nov-13	11042013-001.SSF	138518.354	4279
722301.659	4294377.791	5377	04-Nov-13	11042013-001.SSF	138519.397	4280
722301.716	4294377.709	5327	04-Nov-13	11042013-001.SSF	138520.3149	4281
722301.752	4294377.623	5831	04-Nov-13	11042013-001.SSF	138521.3669	4282
722301.695	4294377.625	5733	04-Nov-13	11042013-001.SSF	138522.3379	4283
722301.653	4294377.681	5489	04-Nov-13	11042013-001.SSF	138523.3689	4284

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722301.725	4294377.647	5458	04-Nov-13	11042013-001.SSF	138524.304	4285
722301.826	4294377.516	5740	04-Nov-13	11042013-001.SSF	138525.3911	4286
722301.806	4294377.464	5681	04-Nov-13	11042013-001.SSF	138526.3259	4287
722301.758	4294377.464	5760	04-Nov-13	11042013-001.SSF	138527.377	4288
722301.751	4294377.491	5167	04-Nov-13	11042013-001.SSF	138528.4351	4289
722301.723	4294377.601	5374	04-Nov-13	11042013-001.SSF	138529.387	4290
722301.686	4294377.78	5078	04-Nov-13	11042013-001.SSF	138530.29	4291
722301.732	4294377.91	5211	04-Nov-13	11042013-001.SSF	138531.2991	4292
722301.816	4294377.861	5024	04-Nov-13	11042013-001.SSF	138532.354	4293
722301.96	4294377.671	5158	04-Nov-13	11042013-001.SSF	138533.312	4294
722302.348	4294377.391	5016	04-Nov-13	11042013-001.SSF	138534.3049	4295
722302.889	4294377.042	5086	04-Nov-13	11042013-001.SSF	138535.3301	4296
722303.316	4294376.614	5456	04-Nov-13	11042013-001.SSF	138536.2471	4297
722303.518	4294376.1	5596	04-Nov-13	11042013-001.SSF	138537.321	4298
722303.558	4294375.374	6748	04-Nov-13	11042013-001.SSF	138538.3081	4299
722303.553	4294374.421	6293	04-Nov-13	11042013-001.SSF	138539.3291	4300
722303.531	4294373.997	6465	04-Nov-13	11042013-001.SSF	138540.3401	4301
722303.682	4294373.844	6516	04-Nov-13	11042013-001.SSF	138541.3049	4302
722303.915	4294373.552	6808	04-Nov-13	11042013-001.SSF	138542.3611	4303
722304.138	4294373.26	6739	04-Nov-13	11042013-001.SSF	138543.3101	4304
722304.564	4294372.839	6498	04-Nov-13	11042013-001.SSF	138544.344	4305
722304.851	4294372.518	6550	04-Nov-13	11042013-001.SSF	138545.363	4306
722304.96	4294372.251	6744	04-Nov-13	11042013-001.SSF	138546.396	4307
722305.098	4294371.885	6891	04-Nov-13	11042013-001.SSF	138547.3579	4308
722305.235	4294371.489	6561	04-Nov-13	11042013-001.SSF	138548.3811	4309
722305.41	4294371.264	6548	04-Nov-13	11042013-001.SSF	138549.405	4310
722305.579	4294371.153	7328	04-Nov-13	11042013-001.SSF	138550.3279	4311
722305.786	4294371.083	7272	04-Nov-13	11042013-001.SSF	138551.3569	4312
722305.933	4294371.165	6618	04-Nov-13	11042013-001.SSF	138552.3149	4313
722306.102	4294371.581	7007	04-Nov-13	11042013-001.SSF	138553.4299	4314
722306.158	4294371.907	7354	04-Nov-13	11042013-001.SSF	138554.3479	4315
722306.123	4294372.109	7369	04-Nov-13	11042013-001.SSF	138555.3291	4316
722305.94	4294372.296	6680	04-Nov-13	11042013-001.SSF	138556.3821	4317
722305.776	4294372.538	6727	04-Nov-13	11042013-001.SSF	138557.343	4318
722305.643	4294372.831	6214	04-Nov-13	11042013-001.SSF	138558.3069	4319
722305.47	4294373.358	6368	04-Nov-13	11042013-001.SSF	138559.406	4320
722305.242	4294374.187	6642	04-Nov-13	11042013-001.SSF	138560.3679	4321
722305.171	4294375.249	6421	04-Nov-13	11042013-001.SSF	138561.396	4322
722305.421	4294375.749	6334	04-Nov-13	11042013-001.SSF	138562.2971	4323
722305.807	4294375.557	6315	04-Nov-13	11042013-001.SSF	138563.4209	4324
722306.072	4294375.414	5847	04-Nov-13	11042013-001.SSF	138564.3259	4325
722306.219	4294375.57	6319	04-Nov-13	11042013-001.SSF	138565.3059	4326
722306.192	4294375.573	6412	04-Nov-13	11042013-001.SSF	138566.3169	4327
722306.28	4294375.173	6757	04-Nov-13	11042013-001.SSF	138567.3369	4328
722306.635	4294374.641	7100	04-Nov-13	11042013-001.SSF	138568.3169	4329
722307.087	4294374.102	6821	04-Nov-13	11042013-001.SSF	138569.365	4330
722307.28	4294373.838	7407	04-Nov-13	11042013-001.SSF	138570.3521	4331

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722307.294	4294373.792	7234	04-Nov-13	11042013-001.SSF	138571.2881	4332
722307.406	4294373.856	7061	04-Nov-13	11042013-001.SSF	138572.311	4333
722307.504	4294373.712	6814	04-Nov-13	11042013-001.SSF	138573.3369	4334
722307.488	4294373.155	7425	04-Nov-13	11042013-001.SSF	138574.3479	4335
722307.573	4294372.551	7582	04-Nov-13	11042013-001.SSF	138575.3491	4336
722307.566	4294372.349	7512	04-Nov-13	11042013-001.SSF	138576.343	4337
722307.456	4294372.311	7158	04-Nov-13	11042013-001.SSF	138577.302	4338
722307.452	4294372.085	6981	04-Nov-13	11042013-001.SSF	138578.3201	4339
722307.268	4294371.771	7182	04-Nov-13	11042013-001.SSF	138579.322	4340
722306.979	4294371.347	7310	04-Nov-13	11042013-001.SSF	138580.3081	4341
722306.641	4294371.072	6894	04-Nov-13	11042013-001.SSF	138581.3379	4342
722306.424	4294370.99	7388	04-Nov-13	11042013-001.SSF	138582.3359	4343
722306.203	4294370.949	6788	04-Nov-13	11042013-001.SSF	138583.344	4344
722305.974	4294370.978	6645	04-Nov-13	11042013-001.SSF	138584.3149	4345
722305.759	4294370.975	7331	04-Nov-13	11042013-001.SSF	138585.3201	4346
722305.591	4294370.934	7483	04-Nov-13	11042013-001.SSF	138586.2881	4347
722305.506	4294370.905	7329	04-Nov-13	11042013-001.SSF	138587.3401	4348
722305.446	4294370.872	7408	04-Nov-13	11042013-001.SSF	138588.3679	4349
722305.394	4294370.849	7429	04-Nov-13	11042013-001.SSF	138589.3621	4350
722305.364	4294370.832	7689	04-Nov-13	11042013-001.SSF	138590.3301	4351
722305.335	4294370.811	7910	04-Nov-13	11042013-001.SSF	138591.405	4352
722305.311	4294370.808	7472	04-Nov-13	11042013-001.SSF	138592.335	4353
722305.29	4294370.825	7248	04-Nov-13	11042013-001.SSF	138593.3601	4354
722305.267	4294370.836	7122	04-Nov-13	11042013-001.SSF	138594.3931	4355
722305.256	4294370.821	7148	04-Nov-13	11042013-001.SSF	138595.3169	4356
722305.235	4294370.777	7141	04-Nov-13	11042013-001.SSF	138596.301	4357
722305.208	4294370.748	7196	04-Nov-13	11042013-001.SSF	138597.3291	4358
722305.215	4294370.747	6988	04-Nov-13	11042013-001.SSF	138598.365	4359
722305.237	4294370.736	7231	04-Nov-13	11042013-001.SSF	138599.395	4360
722305.241	4294370.715	7135	04-Nov-13	11042013-001.SSF	138600.3379	4361
722305.235	4294370.703	7133	04-Nov-13	11042013-001.SSF	138601.3491	4362
722305.23	4294370.697	6877	04-Nov-13	11042013-001.SSF	138602.366	4363
722305.222	4294370.701	6456	04-Nov-13	11042013-001.SSF	138603.386	4364
722305.215	4294370.712	6331	04-Nov-13	11042013-001.SSF	138604.354	4365
722305.212	4294370.723	6576	04-Nov-13	11042013-001.SSF	138605.3501	4366
722305.209	4294370.73	6489	04-Nov-13	11042013-001.SSF	138606.3201	4367
722305.204	4294370.717	6395	04-Nov-13	11042013-001.SSF	138607.3521	4368
722305.179	4294370.69	6657	04-Nov-13	11042013-001.SSF	138608.387	4369
722305.152	4294370.693	7059	04-Nov-13	11042013-001.SSF	138609.4221	4370
722305.142	4294370.709	7278	04-Nov-13	11042013-001.SSF	138610.312	4371
722305.141	4294370.717	6531	04-Nov-13	11042013-001.SSF	138611.3689	4372
722305.142	4294370.729	7251	04-Nov-13	11042013-001.SSF	138612.3391	4373
722305.151	4294370.753	7266	04-Nov-13	11042013-001.SSF	138613.4299	4374
722305.162	4294370.766	7245	04-Nov-13	11042013-001.SSF	138614.373	4375
722305.164	4294370.774	7345	04-Nov-13	11042013-001.SSF	138615.314	4376
722305.158	4294370.778	7619	04-Nov-13	11042013-001.SSF	138616.271	4377
722305.03	4294370.69	7661	04-Nov-13	11042013-001.SSF	138617.3821	4378

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722304.753	4294370.575	7729	04-Nov-13	11042013-001.SSF	138618.325	4379
722304.571	4294370.756	7077	04-Nov-13	11042013-001.SSF	138619.375	4380
722304.512	4294370.974	6868	04-Nov-13	11042013-001.SSF	138620.366	4381
722304.455	4294370.941	6496	04-Nov-13	11042013-001.SSF	138621.4221	4382
722304.356	4294370.874	6676	04-Nov-13	11042013-001.SSF	138622.333	4383
722304.162	4294370.853	6830	04-Nov-13	11042013-001.SSF	138623.3889	4384
722304.007	4294371.04	6444	04-Nov-13	11042013-001.SSF	138624.3479	4385
722303.751	4294371.469	6767	04-Nov-13	11042013-001.SSF	138625.3101	4386
722303.33	4294372.114	6484	04-Nov-13	11042013-001.SSF	138626.3911	4387
722302.934	4294372.769	6302	04-Nov-13	11042013-001.SSF	138627.313	4388
722302.457	4294373.517	5765	04-Nov-13	11042013-001.SSF	138628.2891	4389
722301.802	4294374.314	5703	04-Nov-13	11042013-001.SSF	138629.343	4390
722301.122	4294375.086	5862	04-Nov-13	11042013-001.SSF	138630.2971	4391
722300.552	4294376.122	5367	04-Nov-13	11042013-001.SSF	138631.312	4392
722300.399	4294376.536	5059	04-Nov-13	11042013-001.SSF	138632.291	4393
722300.612	4294375.974	4878	04-Nov-13	11042013-001.SSF	138633.301	4394
722300.984	4294374.899	5556	04-Nov-13	11042013-001.SSF	138634.303	4395
722301.607	4294373.942	5765	04-Nov-13	11042013-001.SSF	138635.3259	4396
722302.14	4294373.23	5815	04-Nov-13	11042013-001.SSF	138636.3091	4397
722302.455	4294372.72	5753	04-Nov-13	11042013-001.SSF	138637.3059	4398
722302.622	4294372.472	6041	04-Nov-13	11042013-001.SSF	138638.3101	4399
722302.89	4294372.225	5963	04-Nov-13	11042013-001.SSF	138639.3291	4400
722303.257	4294371.845	5919	04-Nov-13	11042013-001.SSF	138640.281	4401
722303.593	4294371.496	6524	04-Nov-13	11042013-001.SSF	138641.281	4402
722303.829	4294371.193	6512	04-Nov-13	11042013-001.SSF	138642.332	4403
722304.071	4294370.889	6573	04-Nov-13	11042013-001.SSF	138643.335	4404
722304.366	4294370.542	6840	04-Nov-13	11042013-001.SSF	138644.3091	4405
722304.784	4294370.176	6870	04-Nov-13	11042013-001.SSF	138645.3831	4406
722305.101	4294369.951	7719	04-Nov-13	11042013-001.SSF	138646.3291	4407
722305.061	4294370.052	7327	04-Nov-13	11042013-001.SSF	138647.4031	4408
722304.983	4294370.438	7459	04-Nov-13	11042013-001.SSF	138648.3569	4409
722304.957	4294370.853	7443	04-Nov-13	11042013-001.SSF	138649.4209	4410
722304.92	4294371.069	7029	04-Nov-13	11042013-001.SSF	138650.281	4411
722304.986	4294371.243	7186	04-Nov-13	11042013-001.SSF	138651.4341	4412
722305.154	4294371.291	7267	04-Nov-13	11042013-001.SSF	138652.293	4413
722305.546	4294371.178	7072	04-Nov-13	11042013-001.SSF	138653.386	4414
722305.916	4294371.228	7136	04-Nov-13	11042013-001.SSF	138654.3789	4415
722306.248	4294371.345	7329	04-Nov-13	11042013-001.SSF	138655.3391	4416
722306.416	4294371.521	7280	04-Nov-13	11042013-001.SSF	138656.3291	4417
722306.48	4294371.715	7275	04-Nov-13	11042013-001.SSF	138657.3611	4418
722306.557	4294371.916	7302	04-Nov-13	11042013-001.SSF	138658.3301	4419
722306.422	4294372.341	7325	04-Nov-13	11042013-001.SSF	138659.3589	4420
722306.156	4294372.765	6842	04-Nov-13	11042013-001.SSF	138660.2871	4421
722305.939	4294373.027	6781	04-Nov-13	11042013-001.SSF	138661.261	4422
722305.837	4294373.171	6492	04-Nov-13	11042013-001.SSF	138662.248	4423
722305.957	4294373.233	6794	04-Nov-13	11042013-001.SSF	138663.3401	4424
722306.142	4294373.104	6641	04-Nov-13	11042013-001.SSF	138664.3091	4425

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722306.191	4294373.006	6803	04-Nov-13	11042013-001.SSF	138665.3411	4426
722306.177	4294373.004	6722	04-Nov-13	11042013-001.SSF	138666.2791	4427
722306.181	4294373.055	6848	04-Nov-13	11042013-001.SSF	138667.323	4428
722306.211	4294373.103	6987	04-Nov-13	11042013-001.SSF	138668.2939	4429
722306.236	4294373.127	6660	04-Nov-13	11042013-001.SSF	138669.3491	4430
722306.21	4294373.136	6116	04-Nov-13	11042013-001.SSF	138670.29	4431
722306.19	4294373.061	6403	04-Nov-13	11042013-001.SSF	138671.2971	4432
722306.254	4294373.023	6226	04-Nov-13	11042013-001.SSF	138672.2739	4433
722306.301	4294373.186	7035	04-Nov-13	11042013-001.SSF	138673.4221	4434
722306.295	4294373.288	6702	04-Nov-13	11042013-001.SSF	138674.301	4435
722306.274	4294373.311	6657	04-Nov-13	11042013-001.SSF	138675.3059	4436
722306.271	4294373.314	7524	04-Nov-13	11042013-001.SSF	138676.2529	4437
722306.255	4294373.296	6940	04-Nov-13	11042013-001.SSF	138677.2949	4438
722306.267	4294373.278	6768	04-Nov-13	11042013-001.SSF	138678.1831	4439
722306.25	4294373.227	6822	04-Nov-13	11042013-001.SSF	138679.332	4440
722306.146	4294373.207	6890	04-Nov-13	11042013-001.SSF	138680.303	4441
722306.029	4294373.227	7018	04-Nov-13	11042013-001.SSF	138681.3711	4442
722306.053	4294373.218	7030	04-Nov-13	11042013-001.SSF	138682.301	4443
722306.002	4294373.236	6804	04-Nov-13	11042013-001.SSF	138683.3611	4444
722305.943	4294373.261	6497	04-Nov-13	11042013-001.SSF	138684.3579	4445
722305.927	4294373.265	6535	04-Nov-13	11042013-001.SSF	138685.2949	4446
722305.924	4294373.293	6443	04-Nov-13	11042013-001.SSF	138686.304	4447
722305.941	4294373.357	7067	04-Nov-13	11042013-001.SSF	138687.373	4448
722305.973	4294373.402	6907	04-Nov-13	11042013-001.SSF	138688.3621	4449
722306.088	4294373.402	6773	04-Nov-13	11042013-001.SSF	138689.385	4450
722306.219	4294373.391	6990	04-Nov-13	11042013-001.SSF	138690.2739	4451
722306.309	4294373.396	6954	04-Nov-13	11042013-001.SSF	138691.385	4452
722306.317	4294373.388	7339	04-Nov-13	11042013-001.SSF	138692.302	4453
722306.285	4294373.352	7151	04-Nov-13	11042013-001.SSF	138693.385	4454
722306.301	4294373.332	7945	04-Nov-13	11042013-001.SSF	138694.3899	4455
722306.295	4294373.351	7251	04-Nov-13	11042013-001.SSF	138695.4241	4456
722306.261	4294373.386	6606	04-Nov-13	11042013-001.SSF	138696.3411	4457
722306.251	4294373.426	6933	04-Nov-13	11042013-001.SSF	138697.3459	4458
722306.235	4294373.447	6562	04-Nov-13	11042013-001.SSF	138698.3459	4459
722306.219	4294373.406	6916	04-Nov-13	11042013-001.SSF	138699.408	4460
722306.213	4294373.347	7003	04-Nov-13	11042013-001.SSF	138700.3091	4461
722306.21	4294373.335	7359	04-Nov-13	11042013-001.SSF	138701.301	4462
722306.255	4294373.35	7184	04-Nov-13	11042013-001.SSF	138702.282	4463
722306.281	4294373.337	7063	04-Nov-13	11042013-001.SSF	138703.4109	4464
722306.283	4294373.34	7078	04-Nov-13	11042013-001.SSF	138704.353	4465
722306.275	4294373.368	6621	04-Nov-13	11042013-001.SSF	138705.3169	4466
722306.24	4294373.41	7099	04-Nov-13	11042013-001.SSF	138706.332	4467
722306.215	4294373.435	7676	04-Nov-13	11042013-001.SSF	138707.342	4468
722306.192	4294373.445	7422	04-Nov-13	11042013-001.SSF	138708.2981	4469
722306.204	4294373.454	6605	04-Nov-13	11042013-001.SSF	138709.365	4470
722306.203	4294373.42	6588	04-Nov-13	11042013-001.SSF	138710.248	4471
722306.203	4294373.344	6728	04-Nov-13	11042013-001.SSF	138711.2859	4472

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722306.226	4294373.298	6784	04-Nov-13	11042013-001.SSF	138712.2209	4473
722306.235	4294373.305	6374	04-Nov-13	11042013-001.SSF	138713.259	4474
722306.227	4294373.318	6577	04-Nov-13	11042013-001.SSF	138714.249	4475
722306.212	4294373.318	6640	04-Nov-13	11042013-001.SSF	138715.375	4476
722306.213	4294373.298	6817	04-Nov-13	11042013-001.SSF	138716.3501	4477
722306.273	4294373.27	7045	04-Nov-13	11042013-001.SSF	138717.4021	4478
722306.306	4294373.303	7203	04-Nov-13	11042013-001.SSF	138718.373	4479
722306.301	4294373.366	7042	04-Nov-13	11042013-001.SSF	138719.387	4480
722306.294	4294373.402	7028	04-Nov-13	11042013-001.SSF	138720.28	4481
722306.296	4294373.411	7021	04-Nov-13	11042013-001.SSF	138721.2661	4482
722306.279	4294373.387	7421	04-Nov-13	11042013-001.SSF	138722.2629	4483
722306.264	4294373.337	7437	04-Nov-13	11042013-001.SSF	138723.3279	4484
722306.279	4294373.314	7956	04-Nov-13	11042013-001.SSF	138724.2661	4485
722306.295	4294373.318	7175	04-Nov-13	11042013-001.SSF	138725.3359	4486
722306.291	4294373.322	6826	04-Nov-13	11042013-001.SSF	138726.2681	4487
722306.316	4294373.314	6944	04-Nov-13	11042013-001.SSF	138727.3579	4488
722306.311	4294373.339	7071	04-Nov-13	11042013-001.SSF	138728.325	4489
722306.236	4294373.376	7300	04-Nov-13	11042013-001.SSF	138729.343	4490
722306.348	4294373.278	6753	04-Nov-13	11042013-001.SSF	138730.2639	4491
722306.524	4294373.114	6664	04-Nov-13	11042013-001.SSF	138731.2759	4492
722306.497	4294373.055	6568	04-Nov-13	11042013-001.SSF	138732.2461	4493
722306.462	4294373.14	6184	04-Nov-13	11042013-001.SSF	138733.3301	4494
722306.444	4294373.194	6449	04-Nov-13	11042013-001.SSF	138734.2739	4495
722306.396	4294373.145	6575	04-Nov-13	11042013-001.SSF	138735.3411	4496
722306.351	4294373.11	6810	04-Nov-13	11042013-001.SSF	138736.2319	4497
722306.299	4294373.055	7228	04-Nov-13	11042013-001.SSF	138737.3359	4498
722306.287	4294373.023	6728	04-Nov-13	11042013-001.SSF	138738.281	4499
722306.29	4294373.017	6717	04-Nov-13	11042013-001.SSF	138739.353	4500
722306.314	4294373.025	7048	04-Nov-13	11042013-001.SSF	138740.249	4501
722306.369	4294373.058	6657	04-Nov-13	11042013-001.SSF	138741.28	4502
722306.395	4294373.106	7014	04-Nov-13	11042013-001.SSF	138742.2339	4503
722306.384	4294373.138	6915	04-Nov-13	11042013-001.SSF	138743.3469	4504
722306.4	4294373.152	6620	04-Nov-13	11042013-001.SSF	138744.2261	4505
722306.466	4294373.155	6393	04-Nov-13	11042013-001.SSF	138745.3521	4506
722306.469	4294373.152	6086	04-Nov-13	11042013-001.SSF	138746.301	4507
722306.424	4294373.141	6536	04-Nov-13	11042013-001.SSF	138747.2729	4508
722306.383	4294373.141	6421	04-Nov-13	11042013-001.SSF	138748.2759	4509
722306.38	4294373.162	6244	04-Nov-13	11042013-001.SSF	138749.322	4510
722306.403	4294373.199	7045	04-Nov-13	11042013-001.SSF	138750.2939	4511
722306.389	4294373.23	7068	04-Nov-13	11042013-001.SSF	138751.3479	4512
722306.337	4294373.231	7200	04-Nov-13	11042013-001.SSF	138752.2939	4513
722306.318	4294373.227	6840	04-Nov-13	11042013-001.SSF	138753.3191	4514
722306.349	4294373.213	6960	04-Nov-13	11042013-001.SSF	138754.2429	4515
722306.383	4294373.18	7466	04-Nov-13	11042013-001.SSF	138755.314	4516
722306.378	4294373.167	7252	04-Nov-13	11042013-001.SSF	138756.2229	4517
722306.337	4294373.153	7042	04-Nov-13	11042013-001.SSF	138757.3059	4518
722306.327	4294373.113	6676	04-Nov-13	11042013-001.SSF	138758.196	4519

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722306.301	4294373.047	6515	04-Nov-13	11042013-001.SSF	138759.303	4520
722306.291	4294373.023	6582	04-Nov-13	11042013-001.SSF	138760.2451	4521
722306.3	4294373.043	6972	04-Nov-13	11042013-001.SSF	138761.269	4522
722306.301	4294373.077	7867	04-Nov-13	11042013-001.SSF	138762.283	4523
722306.283	4294373.056	7522	04-Nov-13	11042013-001.SSF	138763.3279	4524
722306.256	4294373.026	7052	04-Nov-13	11042013-001.SSF	138764.304	4525
722306.258	4294373.039	6961	04-Nov-13	11042013-001.SSF	138765.366	4526
722306.267	4294373.049	7530	04-Nov-13	11042013-001.SSF	138766.218	4527
722306.264	4294373.044	7198	04-Nov-13	11042013-001.SSF	138767.28	4528
722306.257	4294373.041	6531	04-Nov-13	11042013-001.SSF	138768.1699	4529
722306.248	4294373.033	6464	04-Nov-13	11042013-001.SSF	138769.312	4530
722306.25	4294373.014	6771	04-Nov-13	11042013-001.SSF	138770.3149	4531
722306.247	4294373.005	6621	04-Nov-13	11042013-001.SSF	138771.322	4532
722306.267	4294373.013	6814	04-Nov-13	11042013-001.SSF	138772.2781	4533
722306.281	4294373.027	7103	04-Nov-13	11042013-001.SSF	138773.385	4534
722306.285	4294373.045	7303	04-Nov-13	11042013-001.SSF	138774.2749	4535
722306.307	4294373.068	7010	04-Nov-13	11042013-001.SSF	138775.3069	4536
722306.312	4294373.092	7025	04-Nov-13	11042013-001.SSF	138776.249	4537
722306.239	4294373.149	7117	04-Nov-13	11042013-001.SSF	138777.3169	4538
722306.177	4294373.179	6966	04-Nov-13	11042013-001.SSF	138778.177	4539
722306.17	4294373.192	6948	04-Nov-13	11042013-001.SSF	138779.2749	4540
722306.175	4294373.18	6488	04-Nov-13	11042013-001.SSF	138780.25	4541
722306.181	4294373.096	6582	04-Nov-13	11042013-001.SSF	138781.3411	4542
722306.183	4294373.075	6687	04-Nov-13	11042013-001.SSF	138782.2749	4543
722306.234	4294373.222	6619	04-Nov-13	11042013-001.SSF	138783.3979	4544
722306.293	4294373.282	6745	04-Nov-13	11042013-001.SSF	138784.2859	4545
722306.331	4294373.287	7117	04-Nov-13	11042013-001.SSF	138785.3589	4546
722306.327	4294373.275	6853	04-Nov-13	11042013-001.SSF	138786.241	4547
722306.302	4294373.251	6562	04-Nov-13	11042013-001.SSF	138787.325	4548
722306.285	4294373.257	6939	04-Nov-13	11042013-001.SSF	138788.2881	4549
722306.291	4294373.26	7105	04-Nov-13	11042013-001.SSF	138789.3259	4550
722306.297	4294373.237	6689	04-Nov-13	11042013-001.SSF	138790.3101	4551
722306.317	4294373.207	6762	04-Nov-13	11042013-001.SSF	138791.2871	4552
722306.343	4294373.187	6534	04-Nov-13	11042013-001.SSF	138792.2371	4553
722306.351	4294373.179	6345	04-Nov-13	11042013-001.SSF	138793.3401	4554
722306.349	4294373.17	6321	04-Nov-13	11042013-001.SSF	138794.269	4555
722306.346	4294373.152	6751	04-Nov-13	11042013-001.SSF	138795.355	4556
722306.348	4294373.152	6325	04-Nov-13	11042013-001.SSF	138796.1819	4557
722306.355	4294373.153	6400	04-Nov-13	11042013-001.SSF	138797.304	4558
722306.354	4294373.154	7080	04-Nov-13	11042013-001.SSF	138798.2429	4559
722306.316	4294373.145	6600	04-Nov-13	11042013-001.SSF	138799.2771	4560
722306.274	4294373.158	6607	04-Nov-13	11042013-001.SSF	138800.2981	4561
722306.259	4294373.209	7046	04-Nov-13	11042013-001.SSF	138801.313	4562
722306.279	4294373.248	7143	04-Nov-13	11042013-001.SSF	138802.28	4563
722306.297	4294373.249	7303	04-Nov-13	11042013-001.SSF	138803.3149	4564
722306.275	4294373.248	7618	04-Nov-13	11042013-001.SSF	138804.314	4565
722306.253	4294373.254	7412	04-Nov-13	11042013-001.SSF	138805.3191	4566

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722306.321	4294373.262	6900	04-Nov-13	11042013-001.SSF	138807.301	4568
722306.359	4294373.252	7398	04-Nov-13	11042013-001.SSF	138808.2739	4569
722306.35	4294373.246	6846	04-Nov-13	11042013-001.SSF	138809.3379	4570
722306.337	4294373.257	7076	04-Nov-13	11042013-001.SSF	138810.2549	4571
722306.309	4294373.272	7137	04-Nov-13	11042013-001.SSF	138811.22	4572
722306.292	4294373.284	6775	04-Nov-13	11042013-001.SSF	138812.272	4573
722306.317	4294373.281	6908	04-Nov-13	11042013-001.SSF	138813.323	4574
722306.3	4294373.269	6691	04-Nov-13	11042013-001.SSF	138814.155	4575
722306.244	4294373.258	6703	04-Nov-13	11042013-001.SSF	138815.3601	4576
722306.242	4294373.262	6890	04-Nov-13	11042013-001.SSF	138816.324	4577
722306.249	4294373.273	6958	04-Nov-13	11042013-001.SSF	138817.3501	4578
722306.239	4294373.282	6666	04-Nov-13	11042013-001.SSF	138818.302	4579
722306.217	4294373.282	6795	04-Nov-13	11042013-001.SSF	138819.3621	4580
722306.212	4294373.283	6859	04-Nov-13	11042013-001.SSF	138820.2849	4581
722306.223	4294373.292	7068	04-Nov-13	11042013-001.SSF	138821.335	4582
722306.233	4294373.292	6833	04-Nov-13	11042013-001.SSF	138822.2871	4583
722306.241	4294373.28	7061	04-Nov-13	11042013-001.SSF	138823.2219	4584
722306.243	4294373.276	6994	04-Nov-13	11042013-001.SSF	138824.219	4585
722306.239	4294373.288	7189	04-Nov-13	11042013-001.SSF	138825.3201	4586
722306.234	4294373.296	6616	04-Nov-13	11042013-001.SSF	138826.2539	4587
722306.241	4294373.301	6226	04-Nov-13	11042013-001.SSF	138827.2739	4588
722306.247	4294373.295	5490	04-Nov-13	11042013-001.SSF	138828.2981	4589
722306.265	4294373.282	5908	04-Nov-13	11042013-001.SSF	138829.355	4590
722306.265	4294373.269	6638	04-Nov-13	11042013-001.SSF	138830.2891	4591
722306.258	4294373.265	6666	04-Nov-13	11042013-001.SSF	138831.301	4592
722306.244	4294373.274	6547	04-Nov-13	11042013-001.SSF	138832.249	4593
722306.22	4294373.285	6600	04-Nov-13	11042013-001.SSF	138833.303	4594
722306.217	4294373.289	6645	04-Nov-13	11042013-001.SSF	138834.1731	4595
722306.236	4294373.283	6993	04-Nov-13	11042013-001.SSF	138835.363	4596
722306.239	4294373.289	6806	04-Nov-13	11042013-001.SSF	138836.324	4597
722306.221	4294373.293	7398	04-Nov-13	11042013-001.SSF	138837.3169	4598
722306.206	4294373.276	7521	04-Nov-13	11042013-001.SSF	138838.2729	4599
722306.22	4294373.269	7125	04-Nov-13	11042013-001.SSF	138839.2939	4600
722306.266	4294373.303	6768	04-Nov-13	11042013-001.SSF	138840.1621	4601
722306.293	4294373.328	6724	04-Nov-13	11042013-001.SSF	138841.1899	4602
722306.296	4294373.32	6617	04-Nov-13	11042013-001.SSF	138842.1221	4603
722306.282	4294373.327	6452	04-Nov-13	11042013-001.SSF	138843.2661	4604
722306.222	4294373.346	6712	04-Nov-13	11042013-001.SSF	138844.218	4605
722306.182	4294373.354	6505	04-Nov-13	11042013-001.SSF	138845.27	4606
722306.189	4294373.359	6772	04-Nov-13	11042013-001.SSF	138846.2141	4607
722306.195	4294373.361	6546	04-Nov-13	11042013-001.SSF	138847.2339	4608
722306.196	4294373.363	6757	04-Nov-13	11042013-001.SSF	138848.251	4609
722306.192	4294373.355	6988	04-Nov-13	11042013-001.SSF	138849.27	4610
722306.182	4294373.347	7328	04-Nov-13	11042013-001.SSF	138850.301	4611
722306.189	4294373.347	6702	04-Nov-13	11042013-001.SSF	138851.2939	4612
722306.201	4294373.345	6462	04-Nov-13	11042013-001.SSF	138852.229	4613

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722306.261	4294373.343	6560	04-Nov-13	11042013-001.SSF	138854.219	4615
722306.151	4294373.146	6780	04-Nov-13	11042013-001.SSF	138855.3491	4616
722306.107	4294373.034	7308	04-Nov-13	11042013-001.SSF	138856.2549	4617
722306.137	4294373.043	7028	04-Nov-13	11042013-001.SSF	138857.3799	4618
722306.139	4294373.048	7043	04-Nov-13	11042013-001.SSF	138858.3291	4619
722306.218	4294373.096	7359	04-Nov-13	11042013-001.SSF	138859.3621	4620
722306.417	4294373.219	6802	04-Nov-13	11042013-001.SSF	138860.2141	4621
722306.558	4294373.366	7073	04-Nov-13	11042013-001.SSF	138861.3411	4622
722306.471	4294373.408	6881	04-Nov-13	11042013-001.SSF	138862.303	4623
722306.332	4294373.377	6900	04-Nov-13	11042013-001.SSF	138863.335	4624
722306.284	4294373.3	6941	04-Nov-13	11042013-001.SSF	138864.314	4625
722306.304	4294373.249	6942	04-Nov-13	11042013-001.SSF	138865.365	4626
722306.33	4294373.237	7340	04-Nov-13	11042013-001.SSF	138866.354	4627
722306.342	4294373.253	7046	04-Nov-13	11042013-001.SSF	138867.366	4628
722306.328	4294373.235	7136	04-Nov-13	11042013-001.SSF	138868.323	4629
722306.296	4294373.22	6691	04-Nov-13	11042013-001.SSF	138869.3401	4630
722306.252	4294373.231	6599	04-Nov-13	11042013-001.SSF	138870.3	4631
722306.248	4294373.225	6667	04-Nov-13	11042013-001.SSF	138871.2639	4632
722306.256	4294373.237	7215	04-Nov-13	11042013-001.SSF	138872.345	4633
722306.183	4294373.257	7058	04-Nov-13	11042013-001.SSF	138873.3701	4634
722306.143	4294373.292	7323	04-Nov-13	11042013-001.SSF	138874.345	4635
722306.157	4294373.338	7104	04-Nov-13	11042013-001.SSF	138875.323	4636
722306.122	4294373.316	6613	04-Nov-13	11042013-001.SSF	138876.2581	4637
722306.093	4294373.251	6945	04-Nov-13	11042013-001.SSF	138877.3831	4638
722306.106	4294373.225	6711	04-Nov-13	11042013-001.SSF	138878.1841	4639
722306.139	4294373.236	6910	04-Nov-13	11042013-001.SSF	138879.281	4640
722306.206	4294373.266	7562	04-Nov-13	11042013-001.SSF	138880.2661	4641
722306.229	4294373.245	7276	04-Nov-13	11042013-001.SSF	138881.335	4642
722306.221	4294373.246	7557	04-Nov-13	11042013-001.SSF	138882.311	4643
722306.225	4294373.276	7656	04-Nov-13	11042013-001.SSF	138883.332	4644
722306.231	4294373.295	7261	04-Nov-13	11042013-001.SSF	138884.1741	4645
722306.227	4294373.317	7257	04-Nov-13	11042013-001.SSF	138885.3799	4646
722306.153	4294373.326	7022	04-Nov-13	11042013-001.SSF	138886.228	4647
722306.011	4294373.314	7392	04-Nov-13	11042013-001.SSF	138887.3391	4648
722306.063	4294373.382	7225	04-Nov-13	11042013-001.SSF	138888.3149	4649
722306.119	4294373.429	6659	04-Nov-13	11042013-001.SSF	138889.2661	4650
722306.107	4294373.423	6798	04-Nov-13	11042013-001.SSF	138890.2561	4651
722306.124	4294373.412	6816	04-Nov-13	11042013-001.SSF	138891.2749	4652
722306.144	4294373.377	6466	04-Nov-13	11042013-001.SSF	138892.2661	4653
722306.172	4294373.341	6322	04-Nov-13	11042013-001.SSF	138893.261	4654
722306.218	4294373.308	6121	04-Nov-13	11042013-001.SSF	138894.3569	4655
722306.247	4294373.28	6323	04-Nov-13	11042013-001.SSF	138895.366	4656
722306.275	4294373.277	6587	04-Nov-13	11042013-001.SSF	138896.321	4657
722306.299	4294373.317	6502	04-Nov-13	11042013-001.SSF	138897.366	4658
722306.318	4294373.395	6800	04-Nov-13	11042013-001.SSF	138898.271	4659
722306.358	4294373.475	6915	04-Nov-13	11042013-001.SSF	138899.3259	4660

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722306.36	4294373.491	7024	04-Nov-13	11042013-001.SSF	138900.0769	4661
722306.3	4294373.49	7011	04-Nov-13	11042013-001.SSF	138901.2991	4662
722306.307	4294373.497	7109	04-Nov-13	11042013-001.SSF	138902.196	4663
722306.311	4294373.488	6893	04-Nov-13	11042013-001.SSF	138903.2429	4664
722306.3	4294373.461	6585	04-Nov-13	11042013-001.SSF	138904.2419	4665
722306.268	4294373.452	6426	04-Nov-13	11042013-001.SSF	138905.3049	4666
722306.152	4294373.47	6772	04-Nov-13	11042013-001.SSF	138906.2371	4667
722305.998	4294373.362	6944	04-Nov-13	11042013-001.SSF	138907.3191	4668
722305.965	4294373.289	6779	04-Nov-13	11042013-001.SSF	138908.291	4669
722305.987	4294373.276	7653	04-Nov-13	11042013-001.SSF	138909.3059	4670
722306.018	4294373.248	7492	04-Nov-13	11042013-001.SSF	138910.2971	4671
722306.051	4294373.221	6884	04-Nov-13	11042013-001.SSF	138911.3359	4672
722306.086	4294373.208	6842	04-Nov-13	11042013-001.SSF	138912.29	4673
722306.123	4294373.197	6841	04-Nov-13	11042013-001.SSF	138913.3149	4674
722306.136	4294373.184	7013	04-Nov-13	11042013-001.SSF	138914.1809	4675
722306.137	4294373.176	6525	04-Nov-13	11042013-001.SSF	138915.314	4676
722306.138	4294373.158	6722	04-Nov-13	11042013-001.SSF	138916.207	4677
722306.204	4294373.096	6954	04-Nov-13	11042013-001.SSF	138917.3069	4678
722306.371	4294373.165	7384	04-Nov-13	11042013-001.SSF	138918.2209	4679
722306.431	4294373.293	7176	04-Nov-13	11042013-001.SSF	138919.3301	4680
722306.372	4294373.333	6766	04-Nov-13	11042013-001.SSF	138920.301	4681
722306.335	4294373.382	6626	04-Nov-13	11042013-001.SSF	138921.3311	4682
722306.345	4294373.442	6862	04-Nov-13	11042013-001.SSF	138922.2571	4683
722306.369	4294373.47	6507	04-Nov-13	11042013-001.SSF	138923.271	4684
722306.402	4294373.437	6780	04-Nov-13	11042013-001.SSF	138924.2729	4685
722306.429	4294373.409	6798	04-Nov-13	11042013-001.SSF	138925.27	4686
722306.423	4294373.391	6764	04-Nov-13	11042013-001.SSF	138926.2771	4687
722306.395	4294373.383	6272	04-Nov-13	11042013-001.SSF	138927.304	4688
722306.364	4294373.363	6738	04-Nov-13	11042013-001.SSF	138928.2461	4689
722306.347	4294373.345	7248	04-Nov-13	11042013-001.SSF	138929.3091	4690
722306.362	4294373.34	6964	04-Nov-13	11042013-001.SSF	138930.2639	4691
722306.379	4294373.349	6602	04-Nov-13	11042013-001.SSF	138931.282	4692
722306.419	4294373.376	6624	04-Nov-13	11042013-001.SSF	138932.1841	4693
722306.464	4294373.402	6666	04-Nov-13	11042013-001.SSF	138933.1709	4694
722306.464	4294373.399	6472	04-Nov-13	11042013-001.SSF	138934.177	4695
722306.442	4294373.392	6580	04-Nov-13	11042013-001.SSF	138935.2361	4696
722306.398	4294373.403	6176	04-Nov-13	11042013-001.SSF	138936.2129	4697
722306.348	4294373.372	6249	04-Nov-13	11042013-001.SSF	138937.323	4698
722306.324	4294373.348	6147	04-Nov-13	11042013-001.SSF	138938.261	4699
722306.311	4294373.282	6428	04-Nov-13	11042013-001.SSF	138939.2461	4700
722306.322	4294373.232	6563	04-Nov-13	11042013-001.SSF	138940.2471	4701
722306.33	4294373.25	6137	04-Nov-13	11042013-001.SSF	138941.27	4702
722306.342	4294373.256	6632	04-Nov-13	11042013-001.SSF	138942.1011	4703
722306.376	4294373.252	6678	04-Nov-13	11042013-001.SSF	138943.374	4704
722306.369	4294373.248	6261	04-Nov-13	11042013-001.SSF	138944.094	4705
722306.362	4294373.257	6567	04-Nov-13	11042013-001.SSF	138945.332	4706
722306.355	4294373.271	6626	04-Nov-13	11042013-001.SSF	138946.325	4707

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722306.354	4294373.278	6915	04-Nov-13	11042013-001.SSF	138947.2771	4708
722306.364	4294373.276	6657	04-Nov-13	11042013-001.SSF	138948.0969	4709
722306.36	4294373.268	6497	04-Nov-13	11042013-001.SSF	138949.3689	4710
722306.38	4294373.269	6632	04-Nov-13	11042013-001.SSF	138950.2471	4711
722306.377	4294373.264	6700	04-Nov-13	11042013-001.SSF	138951.2649	4712
722306.361	4294373.26	7159	04-Nov-13	11042013-001.SSF	138952.1931	4713
722306.401	4294373.273	7229	04-Nov-13	11042013-001.SSF	138953.3149	4714
722306.426	4294373.283	7276	04-Nov-13	11042013-001.SSF	138954.2781	4715
722306.409	4294373.279	7415	04-Nov-13	11042013-001.SSF	138955.304	4716
722306.399	4294373.291	7403	04-Nov-13	11042013-001.SSF	138956.135	4717
722306.381	4294373.322	6872	04-Nov-13	11042013-001.SSF	138957.314	4718
722306.374	4294373.347	6835	04-Nov-13	11042013-001.SSF	138958.2419	4719
722306.371	4294373.345	6620	04-Nov-13	11042013-001.SSF	138959.3149	4720
722306.37	4294373.312	6663	04-Nov-13	11042013-001.SSF	138960.1411	4721
722306.356	4294373.294	7325	04-Nov-13	11042013-001.SSF	138961.345	4722
722306.318	4294373.259	7113	04-Nov-13	11042013-001.SSF	138962.196	4723
722306.191	4294373.085	7488	04-Nov-13	11042013-001.SSF	138963.2629	4724
722306.126	4294373.006	7250	04-Nov-13	11042013-001.SSF	138964.2371	4725
722306.154	4294373.102	6995	04-Nov-13	11042013-001.SSF	138965.2681	4726
722306.126	4294373.174	6785	04-Nov-13	11042013-001.SSF	138966.1021	4727
722306.14	4294373.218	6576	04-Nov-13	11042013-001.SSF	138967.2671	4728
722306.178	4294373.241	6609	04-Nov-13	11042013-001.SSF	138968.209	4729
722306.186	4294373.242	6500	04-Nov-13	11042013-001.SSF	138969.2061	4730
722306.173	4294373.236	6243	04-Nov-13	11042013-001.SSF	138970.072	4731
722306.146	4294373.229	6879	04-Nov-13	11042013-001.SSF	138971.272	4732
722306.122	4294373.227	6720	04-Nov-13	11042013-001.SSF	138972.2119	4733
722306.121	4294373.206	6577	04-Nov-13	11042013-001.SSF	138973.219	4734
722306.128	4294373.187	6804	04-Nov-13	11042013-001.SSF	138974.22	4735
722306.139	4294373.178	7045	04-Nov-13	11042013-001.SSF	138975.2749	4736
722306.195	4294373.2	7038	04-Nov-13	11042013-001.SSF	138976.1641	4737
722306.35	4294373.329	7333	04-Nov-13	11042013-001.SSF	138977.2981	4738
722306.421	4294373.381	6915	04-Nov-13	11042013-001.SSF	138978.126	4739
722306.403	4294373.339	6784	04-Nov-13	11042013-001.SSF	138979.2319	4740
722306.406	4294373.34	7131	04-Nov-13	11042013-001.SSF	138980.074	4741
722306.406	4294373.382	6479	04-Nov-13	11042013-001.SSF	138981.3081	4742
722306.375	4294373.345	6044	04-Nov-13	11042013-001.SSF	138982.0691	4743
722306.379	4294373.262	6557	04-Nov-13	11042013-001.SSF	138983.252	4744
722306.42	4294373.259	6718	04-Nov-13	11042013-001.SSF	138984.0681	4745
722306.43	4294373.269	7109	04-Nov-13	11042013-001.SSF	138985.2549	4746
722306.412	4294373.165	6991	04-Nov-13	11042013-001.SSF	138986.24	4747
722306.37	4294373.058	6310	04-Nov-13	11042013-001.SSF	138987.248	4748
722306.343	4294373.037	6219	04-Nov-13	11042013-001.SSF	138988.2871	4749
722306.342	4294373.042	6288	04-Nov-13	11042013-001.SSF	138989.3149	4750
722306.332	4294373.033	6492	04-Nov-13	11042013-001.SSF	138990.249	4751
722306.351	4294373.018	6817	04-Nov-13	11042013-001.SSF	138991.2759	4752
722306.379	4294373.007	6639	04-Nov-13	11042013-001.SSF	138992.2009	4753
722306.396	4294373.021	6682	04-Nov-13	11042013-001.SSF	138993.2561	4754

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722306.447	4294373.051	7043	04-Nov-13	11042013-001.SSF	138994.189	4755
722306.499	4294373.054	6759	04-Nov-13	11042013-001.SSF	138995.2539	4756
722306.486	4294373.054	6937	04-Nov-13	11042013-001.SSF	138996.2451	4757
722306.446	4294373.036	6527	04-Nov-13	11042013-001.SSF	138997.2959	4758
722306.36	4294372.975	7046	04-Nov-13	11042013-001.SSF	138998.2339	4759
722306.298	4294372.916	7181	04-Nov-13	11042013-001.SSF	138999.28	4760
722306.333	4294372.944	7009	04-Nov-13	11042013-001.SSF	139000.291	4761
722306.469	4294373.084	7047	04-Nov-13	11042013-001.SSF	139001.355	4762
722306.574	4294373.204	6799	04-Nov-13	11042013-001.SSF	139002.269	4763
722306.591	4294373.228	7259	04-Nov-13	11042013-001.SSF	139003.271	4764
722306.566	4294373.213	6716	04-Nov-13	11042013-001.SSF	139004.248	4765
722306.566	4294373.208	6455	04-Nov-13	11042013-001.SSF	139005.24	4766
722306.549	4294373.214	6728	04-Nov-13	11042013-001.SSF	139006.2549	4767
722306.549	4294373.219	6582	04-Nov-13	11042013-001.SSF	139007.26	4768
722306.51	4294373.18	6807	04-Nov-13	11042013-001.SSF	139008.1941	4769
722306.442	4294373.101	6476	04-Nov-13	11042013-001.SSF	139009.2781	4770
722306.426	4294373.091	6200	04-Nov-13	11042013-001.SSF	139010.064	4771
722306.415	4294373.125	6217	04-Nov-13	11042013-001.SSF	139011.219	4772
722306.424	4294373.109	6512	04-Nov-13	11042013-001.SSF	139012.147	4773
722306.45	4294373.087	7046	04-Nov-13	11042013-001.SSF	139013.127	4774
722306.488	4294373.104	7151	04-Nov-13	11042013-001.SSF	139014.217	4775
722306.513	4294373.132	7165	04-Nov-13	11042013-001.SSF	139015.271	4776
722306.484	4294373.163	7247	04-Nov-13	11042013-001.SSF	139016.168	4777
722306.478	4294373.196	6949	04-Nov-13	11042013-001.SSF	139017.248	4778
722306.495	4294373.213	6864	04-Nov-13	11042013-001.SSF	139018.1641	4779
722306.486	4294373.216	6343	04-Nov-13	11042013-001.SSF	139019.2661	4780
722306.478	4294373.202	6950	04-Nov-13	11042013-001.SSF	139020.074	4781
722306.443	4294373.152	6999	04-Nov-13	11042013-001.SSF	139021.2671	4782
722306.455	4294373.143	7320	04-Nov-13	11042013-001.SSF	139022.0811	4783
722306.513	4294373.161	6960	04-Nov-13	11042013-001.SSF	139023.2419	4784
722306.536	4294373.164	7357	04-Nov-13	11042013-001.SSF	139024.064	4785
722306.519	4294373.164	7018	04-Nov-13	11042013-001.SSF	139025.28	4786
722306.504	4294373.167	7428	04-Nov-13	11042013-001.SSF	139026.1899	4787
722306.519	4294373.171	7133	04-Nov-13	11042013-001.SSF	139027.291	4788
722306.516	4294373.176	7020	04-Nov-13	11042013-001.SSF	139028.1069	4789
722306.499	4294373.174	6521	04-Nov-13	11042013-001.SSF	139029.2219	4790
722306.485	4294373.171	7200	04-Nov-13	11042013-001.SSF	139030.3	4791
722306.489	4294373.17	6885	04-Nov-13	11042013-001.SSF	139031.1941	4792
722306.471	4294373.164	6835	04-Nov-13	11042013-001.SSF	139032.2129	4793
722306.47	4294373.159	6627	04-Nov-13	11042013-001.SSF	139033.2429	4794
722306.455	4294373.162	6772	04-Nov-13	11042013-001.SSF	139034.271	4795
722306.461	4294373.177	6839	04-Nov-13	11042013-001.SSF	139035.283	4796
722306.462	4294373.214	6967	04-Nov-13	11042013-001.SSF	139036.1011	4797
722306.468	4294373.246	7054	04-Nov-13	11042013-001.SSF	139037.238	4798
722306.463	4294373.251	7155	04-Nov-13	11042013-001.SSF	139038.0659	4799
722306.48	4294373.224	7279	04-Nov-13	11042013-001.SSF	139039.2661	4800
722306.485	4294373.196	6862	04-Nov-13	11042013-001.SSF	139040.073	4801

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722306.511	4294373.21	7617	04-Nov-13	11042013-001.SSF	139042.0569	4803
722306.478	4294373.212	7367	04-Nov-13	11042013-001.SSF	139043.312	4804
722306.442	4294373.194	7586	04-Nov-13	11042013-001.SSF	139044.2029	4805
722306.457	4294373.184	7470	04-Nov-13	11042013-001.SSF	139045.262	4806
722306.488	4294373.188	7202	04-Nov-13	11042013-001.SSF	139046.1289	4807
722306.481	4294373.203	7373	04-Nov-13	11042013-001.SSF	139047.3269	4808
722306.467	4294373.21	7365	04-Nov-13	11042013-001.SSF	139048.1011	4809
722306.468	4294373.211	6903	04-Nov-13	11042013-001.SSF	139049.2419	4810
722306.474	4294373.209	6797	04-Nov-13	11042013-001.SSF	139050.167	4811
722306.465	4294373.214	6938	04-Nov-13	11042013-001.SSF	139051.2808	4812
722306.444	4294373.226	7015	04-Nov-13	11042013-001.SSF	139052.1089	4813
722306.441	4294373.219	6646	04-Nov-13	11042013-001.SSF	139053.313	4814
722306.443	4294373.201	6566	04-Nov-13	11042013-001.SSF	139054.2642	4815
722306.445	4294373.18	6311	04-Nov-13	11042013-001.SSF	139055.3252	4816
722306.437	4294373.179	6572	04-Nov-13	11042013-001.SSF	139056.25	4817
722306.426	4294373.19	6367	04-Nov-13	11042013-001.SSF	139057.2588	4818
722306.437	4294373.203	6671	04-Nov-13	11042013-001.SSF	139058.126	4819
722306.451	4294373.228	6385	04-Nov-13	11042013-001.SSF	139059.2822	4820
722306.445	4294373.235	6501	04-Nov-13	11042013-001.SSF	139060.25	4821
722306.432	4294373.24	6784	04-Nov-13	11042013-001.SSF	139061.3008	4822
722306.457	4294373.258	6756	04-Nov-13	11042013-001.SSF	139062.3008	4823
722306.496	4294373.289	6793	04-Nov-13	11042013-001.SSF	139063.2192	4824
722306.521	4294373.315	6641	04-Nov-13	11042013-001.SSF	139064.0869	4825
722306.503	4294373.315	6390	04-Nov-13	11042013-001.SSF	139065.2939	4826
722306.489	4294373.289	7089	04-Nov-13	11042013-001.SSF	139066.123	4827
722306.48	4294373.254	7078	04-Nov-13	11042013-001.SSF	139067.3281	4828
722306.489	4294373.236	6831	04-Nov-13	11042013-001.SSF	139068.314	4829
722306.495	4294373.231	7150	04-Nov-13	11042013-001.SSF	139069.2251	4830
722306.492	4294373.251	6969	04-Nov-13	11042013-001.SSF	139070.1499	4831
722306.503	4294373.278	6822	04-Nov-13	11042013-001.SSF	139071.2681	4832
722306.524	4294373.304	6867	04-Nov-13	11042013-001.SSF	139072.123	4833
722306.506	4294373.323	6870	04-Nov-13	11042013-001.SSF	139073.1982	4834
722306.476	4294373.161	7254	04-Nov-13	11042013-001.SSF	139074.1201	4835
722306.189	4294372.896	6765	04-Nov-13	11042013-001.SSF	139075.2749	4836
722306.109	4294372.773	6903	04-Nov-13	11042013-001.SSF	139076.082	4837
722306.354	4294372.569	7303	04-Nov-13	11042013-001.SSF	139077.293	4838
722306.328	4294372.298	7085	04-Nov-13	11042013-001.SSF	139078.0942	4839
722306.288	4294371.682	7195	04-Nov-13	11042013-001.SSF	139079.2988	4840
722306.184	4294371.309	7730	04-Nov-13	11042013-001.SSF	139080.0889	4841
722306.015	4294370.808	7025	04-Nov-13	11042013-001.SSF	139081.1831	4842
722306.025	4294370.344	6644	04-Nov-13	11042013-001.SSF	139082.063	4843
722306.449	4294369.726	6520	04-Nov-13	11042013-001.SSF	139083.2402	4844
722306.715	4294369.647	7192	04-Nov-13	11042013-001.SSF	139084.1821	4845
722306.539	4294369.388	7488	04-Nov-13	11042013-001.SSF	139085.3149	4846
722306.618	4294368.964	7534	04-Nov-13	11042013-001.SSF	139086.2251	4847
722306.793	4294368.908	7223	04-Nov-13	11042013-001.SSF	139087.2651	4848

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722306.783	4294369.127	6793	04-Nov-13	11042013-001.SSF	139088.0391	4849
722306.799	4294369.421	6926	04-Nov-13	11042013-001.SSF	139089.3271	4850
722306.869	4294369.598	7286	04-Nov-13	11042013-001.SSF	139090.248	4851
722306.869	4294369.68	7541	04-Nov-13	11042013-001.SSF	139091.2949	4852
722306.854	4294369.679	7391	04-Nov-13	11042013-001.SSF	139092.1479	4853
722306.902	4294369.416	7480	04-Nov-13	11042013-001.SSF	139093.2588	4854
722307.278	4294369.185	7627	04-Nov-13	11042013-001.SSF	139094.1411	4855
722307.688	4294368.973	8588	04-Nov-13	11042013-001.SSF	139095.2671	4856
722307.913	4294368.831	8153	04-Nov-13	11042013-001.SSF	139096.0928	4857
722308.377	4294368.512	7608	04-Nov-13	11042013-001.SSF	139097.3252	4858
722308.858	4294368.544	7640	04-Nov-13	11042013-001.SSF	139098.1328	4859
722309.486	4294368.624	7425	04-Nov-13	11042013-001.SSF	139099.2622	4860
722309.912	4294368.39	8294	04-Nov-13	11042013-001.SSF	139100.1372	4861
722310.229	4294367.958	8220	04-Nov-13	11042013-001.SSF	139101.186	4862
722310.385	4294367.672	7983	04-Nov-13	11042013-001.SSF	139102.1851	4863
722310.532	4294367.527	8046	04-Nov-13	11042013-001.SSF	139103.2622	4864
722310.641	4294367.332	8246	04-Nov-13	11042013-001.SSF	139104.2212	4865
722310.878	4294366.879	8111	04-Nov-13	11042013-001.SSF	139105.3169	4866
722311.072	4294366.507	8200	04-Nov-13	11042013-001.SSF	139106.1611	4867
722311.544	4294366.315	7927	04-Nov-13	11042013-001.SSF	139107.3589	4868
722312.105	4294366.259	7804	04-Nov-13	11042013-001.SSF	139108.1162	4869
722313.179	4294365.799	7322	04-Nov-13	11042013-001.SSF	139109.2808	4870
722313.856	4294365.361	7381	04-Nov-13	11042013-001.SSF	139110.1318	4871
722314.173	4294364.769	7241	04-Nov-13	11042013-001.SSF	139111.2041	4872
722314.042	4294364.419	7696	04-Nov-13	11042013-001.SSF	139112.0151	4873
722314.126	4294364.125	8116	04-Nov-13	11042013-001.SSF	139113.2202	4874
722314.407	4294363.698	8128	04-Nov-13	11042013-001.SSF	139114.2231	4875
722314.858	4294363.34	7497	04-Nov-13	11042013-001.SSF	139115.1592	4876
722315.392	4294362.92	7704	04-Nov-13	11042013-001.SSF	139116.0361	4877
722316.143	4294362.649	7859	04-Nov-13	11042013-001.SSF	139117.229	4878
722316.556	4294362.558	7743	04-Nov-13	11042013-001.SSF	139118.1401	4879
722316.803	4294362.487	8060	04-Nov-13	11042013-001.SSF	139119.123	4880
722316.762	4294362.176	8478	04-Nov-13	11042013-001.SSF	139120.0732	4881
722316.742	4294361.801	8242	04-Nov-13	11042013-001.SSF	139121.168	4882
722316.802	4294361.579	8521	04-Nov-13	11042013-001.SSF	139122.1309	4883
722316.855	4294361.435	8535	04-Nov-13	11042013-001.SSF	139123.229	4884
722317.048	4294361.117	9211	04-Nov-13	11042013-001.SSF	139124.0508	4885
722317.437	4294360.698	9351	04-Nov-13	11042013-001.SSF	139125.2461	4886
722317.637	4294360.36	9055	04-Nov-13	11042013-001.SSF	139126.1289	4887
722317.417	4294360.009	9263	04-Nov-13	11042013-001.SSF	139127.1411	4888
722316.917	4294359.498	8518	04-Nov-13	11042013-001.SSF	139128.0171	4889
722315.997	4294359.444	8376	04-Nov-13	11042013-001.SSF	139129.2212	4890
722315.411	4294359.55	7651	04-Nov-13	11042013-001.SSF	139130.123	4891
722315.117	4294359.654	7311	04-Nov-13	11042013-001.SSF	139131.1509	4892
722315.077	4294359.676	6760	04-Nov-13	11042013-001.SSF	139132.1089	4893
722314.966	4294359.77	6097	04-Nov-13	11042013-001.SSF	139133.2109	4894
722314.852	4294359.711	5860	04-Nov-13	11042013-001.SSF	139134.2041	4895

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722314.595	4294359.627	6348	04-Nov-13	11042013-001.SSF	139135.1528	4896
722314.35	4294359.304	6773	04-Nov-13	11042013-001.SSF	139136.1191	4897
722314.05	4294359.07	6600	04-Nov-13	11042013-001.SSF	139137.1948	4898
722313.851	4294358.826	6165	04-Nov-13	11042013-001.SSF	139138.0928	4899
722313.667	4294358.285	5823	04-Nov-13	11042013-001.SSF	139139.229	4900
722313.629	4294358.056	6193	04-Nov-13	11042013-001.SSF	139140.0708	4901
722313.508	4294357.528	6348	04-Nov-13	11042013-001.SSF	139141.1592	4902
722313.385	4294357.165	6051	04-Nov-13	11042013-001.SSF	139142.0352	4903
722313.487	4294356.966	6284	04-Nov-13	11042013-001.SSF	139143.1768	4904
722313.58	4294357.049	6902	04-Nov-13	11042013-001.SSF	139144.0098	4905
722313.712	4294356.647	7767	04-Nov-13	11042013-001.SSF	139145.2808	4906
722313.662	4294356.487	7219	04-Nov-13	11042013-001.SSF	139145.9858	4907
722313.74	4294356.368	6325	04-Nov-13	11042013-001.SSF	139147.106	4908
722313.87	4294356.338	6160	04-Nov-13	11042013-001.SSF	139148.1069	4909
722313.773	4294356.167	6892	04-Nov-13	11042013-001.SSF	139149.063	4910
722313.789	4294356.203	6539	04-Nov-13	11042013-001.SSF	139150.0308	4911
722313.92	4294356.022	6858	04-Nov-13	11042013-001.SSF	139151.1738	4912
722313.956	4294355.755	7045	04-Nov-13	11042013-001.SSF	139151.9521	4913
722314.476	4294355.441	6783	04-Nov-13	11042013-001.SSF	139153.2119	4914
722314.777	4294355.21	7183	04-Nov-13	11042013-001.SSF	139154.0811	4915
722314.801	4294355.166	6717	04-Nov-13	11042013-001.SSF	139155.1528	4916
722314.902	4294355.158	7716	04-Nov-13	11042013-001.SSF	139156.0869	4917
722315.347	4294355.067	7498	04-Nov-13	11042013-001.SSF	139157.1802	4918
722315.671	4294354.838	7472	04-Nov-13	11042013-001.SSF	139158.0928	4919
722316.124	4294354.563	7751	04-Nov-13	11042013-001.SSF	139159.1572	4920
722316.112	4294354.892	7540	04-Nov-13	11042013-001.SSF	139160.085	4921
722316.046	4294355.657	7668	04-Nov-13	11042013-001.SSF	139161.2192	4922
722316.199	4294356.03	7426	04-Nov-13	11042013-001.SSF	139162.0708	4923
722316.451	4294356.269	7994	04-Nov-13	11042013-001.SSF	139163.1958	4924
722316.515	4294356.345	7572	04-Nov-13	11042013-001.SSF	139164.042	4925
722316.743	4294356.403	7799	04-Nov-13	11042013-001.SSF	139165.2061	4926
722317.188	4294356.363	7679	04-Nov-13	11042013-001.SSF	139166.0659	4927
722317.497	4294356.217	7725	04-Nov-13	11042013-001.SSF	139167.3042	4928
722317.404	4294356.445	7442	04-Nov-13	11042013-001.SSF	139168.1572	4929
722317.342	4294356.966	8244	04-Nov-13	11042013-001.SSF	139169.1689	4930
722317.088	4294357.246	8102	04-Nov-13	11042013-001.SSF	139170.0581	4931
722316.969	4294357.452	8502	04-Nov-13	11042013-001.SSF	139171.1831	4932
722317.084	4294357.632	8345	04-Nov-13	11042013-001.SSF	139172.2158	4933
722317.254	4294357.686	7686	04-Nov-13	11042013-001.SSF	139173.0562	4934
722317.294	4294357.668	7728	04-Nov-13	11042013-001.SSF	139174.1182	4935
722316.913	4294357.898	7737	04-Nov-13	11042013-001.SSF	139175.165	4936
722316.702	4294358.397	7869	04-Nov-13	11042013-001.SSF	139176.187	4937
722316.64	4294359.199	7921	04-Nov-13	11042013-001.SSF	139177.2632	4938
722316.724	4294359.734	8693	04-Nov-13	11042013-001.SSF	139178.123	4939
722316.427	4294360.126	8107	04-Nov-13	11042013-001.SSF	139179.189	4940
722315.935	4294360.356	8408	04-Nov-13	11042013-001.SSF	139180.0811	4941
722315.62	4294360.889	8667	04-Nov-13	11042013-001.SSF	139181.1738	4942

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722315.305	4294361.642	8325	04-Nov-13	11042013-001.SSF	139182.2012	4943
722314.976	4294362.684	7278	04-Nov-13	11042013-001.SSF	139183.2739	4944
722314.566	4294363.257	7221	04-Nov-13	11042013-001.SSF	139184.1499	4945
722313.838	4294363.607	7482	04-Nov-13	11042013-001.SSF	139185.2329	4946
722313.288	4294364.081	7216	04-Nov-13	11042013-001.SSF	139186.1929	4947
722312.675	4294364.645	7749	04-Nov-13	11042013-001.SSF	139187.1992	4948
722312.145	4294365.328	7358	04-Nov-13	11042013-001.SSF	139188.1279	4949
722311.72	4294365.887	7154	04-Nov-13	11042013-001.SSF	139189.229	4950
722311.588	4294365.978	7601	04-Nov-13	11042013-001.SSF	139190.1069	4951
722311.356	4294366.094	8071	04-Nov-13	11042013-001.SSF	139191.2031	4952
722311.026	4294366.214	8140	04-Nov-13	11042013-001.SSF	139192.0088	4953
722310.769	4294366.706	8021	04-Nov-13	11042013-001.SSF	139193.084	4954
722310.177	4294367.228	7691	04-Nov-13	11042013-001.SSF	139194.0288	4955
722309.554	4294368.169	7499	04-Nov-13	11042013-001.SSF	139195.2568	4956
722309.131	4294368.674	7008	04-Nov-13	11042013-001.SSF	139196.1372	4957
722309.016	4294369.088	7789	04-Nov-13	11042013-001.SSF	139197.291	4958
722308.974	4294369.478	7329	04-Nov-13	11042013-001.SSF	139198.1191	4959
722308.656	4294370.228	7392	04-Nov-13	11042013-001.SSF	139199.1841	4960
722308.166	4294370.895	7286	04-Nov-13	11042013-001.SSF	139200.144	4961
722307.627	4294371.569	7833	04-Nov-13	11042013-001.SSF	139201.2129	4962
722307.16	4294372.041	7856	04-Nov-13	11042013-001.SSF	139202.0391	4963
722306.784	4294372.412	7411	04-Nov-13	11042013-001.SSF	139203.1592	4964
722306.783	4294372.599	6869	04-Nov-13	11042013-001.SSF	139204.1509	4965
722306.817	4294372.748	6841	04-Nov-13	11042013-001.SSF	139205.2749	4966
722306.689	4294372.875	7125	04-Nov-13	11042013-001.SSF	139206.1729	4967
722306.015	4294372.939	7030	04-Nov-13	11042013-001.SSF	139207.2822	4968
722305.344	4294372.633	7149	04-Nov-13	11042013-001.SSF	139208.106	4969
722304.695	4294372.213	6421	04-Nov-13	11042013-001.SSF	139209.2231	4970
722304.449	4294372.231	6829	04-Nov-13	11042013-001.SSF	139210.0322	4971
722304.437	4294372.13	7059	04-Nov-13	11042013-001.SSF	139211.1328	4972
722304.354	4294371.756	7255	04-Nov-13	11042013-001.SSF	139212.1641	4973
722304.294	4294371.448	7178	04-Nov-13	11042013-001.SSF	139213.166	4974
722304.623	4294371.275	7045	04-Nov-13	11042013-001.SSF	139214.1001	4975
722304.99	4294371.004	6985	04-Nov-13	11042013-001.SSF	139215.0942	4976
722305.41	4294370.699	7379	04-Nov-13	11042013-001.SSF	139216.0869	4977
722305.994	4294370.141	7773	04-Nov-13	11042013-001.SSF	139217.082	4978
722306.496	4294369.918	7222	04-Nov-13	11042013-001.SSF	139218.0688	4979
722306.854	4294369.747	7010	04-Nov-13	11042013-001.SSF	139219.124	4980
722306.926	4294369.452	7700	04-Nov-13	11042013-001.SSF	139220.1108	4981
722307.208	4294369.324	6956	04-Nov-13	11042013-001.SSF	139221.1709	4982
722307.625	4294369.259	7100	04-Nov-13	11042013-001.SSF	139222.1748	4983
722308.042	4294368.952	7399	04-Nov-13	11042013-001.SSF	139223.144	4984
722308.595	4294368.342	7192	04-Nov-13	11042013-001.SSF	139224.1118	4985
722309.058	4294367.59	6595	04-Nov-13	11042013-001.SSF	139225.2578	4986
722309.067	4294366.995	6927	04-Nov-13	11042013-001.SSF	139226.0898	4987
722308.81	4294366.56	7301	04-Nov-13	11042013-001.SSF	139227.2568	4988
722308.756	4294366.549	7677	04-Nov-13	11042013-001.SSF	139228.0952	4989

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722308.855	4294366.429	7206	04-Nov-13	11042013-001.SSF	139229.167	4990
722309.03	4294366.188	7256	04-Nov-13	11042013-001.SSF	139230.0972	4991
722309.315	4294365.309	7449	04-Nov-13	11042013-001.SSF	139231.2822	4992
722309.727	4294364.545	7452	04-Nov-13	11042013-001.SSF	139232.168	4993
722310.352	4294363.793	7319	04-Nov-13	11042013-001.SSF	139233.1719	4994
722310.918	4294363.245	7155	04-Nov-13	11042013-001.SSF	139234.0532	4995
722310.936	4294362.264	6964	04-Nov-13	11042013-001.SSF	139235.2559	4996
722310.709	4294361.558	7052	04-Nov-13	11042013-001.SSF	139236.1401	4997
722310.509	4294360.941	6892	04-Nov-13	11042013-001.SSF	139237.2129	4998
722310.559	4294360.747	6892	04-Nov-13	11042013-001.SSF	139238.104	4999
722310.9	4294360.678	6464	04-Nov-13	11042013-001.SSF	139239.186	5000
722311.26	4294360.463	6838	04-Nov-13	11042013-001.SSF	139240.0918	5001
722311.743	4294360.351	6779	04-Nov-13	11042013-001.SSF	139241.1411	5002
722312.355	4294360.162	7570	04-Nov-13	11042013-001.SSF	139242.1592	5003
722312.99	4294359.696	7063	04-Nov-13	11042013-001.SSF	139243.1621	5004
722313.514	4294359.056	6673	04-Nov-13	11042013-001.SSF	139244.1621	5005
722313.584	4294358.155	6776	04-Nov-13	11042013-001.SSF	139245.1108	5006
722313.677	4294357.479	7044	04-Nov-13	11042013-001.SSF	139246.0132	5007
722313.814	4294356.666	7074	04-Nov-13	11042013-001.SSF	139247.1108	5008
722313.862	4294355.874	6919	04-Nov-13	11042013-001.SSF	139248.1069	5009
722314.08	4294354.994	7402	04-Nov-13	11042013-001.SSF	139249.0791	5010
722314.319	4294354.32	7396	04-Nov-13	11042013-001.SSF	139250.1831	5011
722314.386	4294353.638	7610	04-Nov-13	11042013-001.SSF	139251.2148	5012
722314.245	4294353.264	7708	04-Nov-13	11042013-001.SSF	139252.0322	5013
722313.844	4294353.095	7471	04-Nov-13	11042013-001.SSF	139253.1318	5014
722313.521	4294352.901	7577	04-Nov-13	11042013-001.SSF	139254.0298	5015
722313.022	4294352.726	7659	04-Nov-13	11042013-001.SSF	139255.2808	5016
722312.689	4294352.918	7263	04-Nov-13	11042013-001.SSF	139256.1919	5017
722312.542	4294353.618	7318	04-Nov-13	11042013-001.SSF	139257.1138	5018
722311.977	4294354.582	6884	04-Nov-13	11042013-001.SSF	139258.104	5019
722311.318	4294355.512	6527	04-Nov-13	11042013-001.SSF	139259.2002	5020
722310.769	4294355.968	6814	04-Nov-13	11042013-001.SSF	139260.0732	5021
722310.476	4294356.111	6330	04-Nov-13	11042013-001.SSF	139261.2178	5022
722310.318	4294356.242	6380	04-Nov-13	11042013-001.SSF	139262.0391	5023
722310.176	4294356.651	6289	04-Nov-13	11042013-001.SSF	139263.1738	5024
722310.116	4294357.087	6200	04-Nov-13	11042013-001.SSF	139263.998	5025
722309.842	4294357.704	6517	04-Nov-13	11042013-001.SSF	139265.0659	5026
722309.605	4294358.257	7048	04-Nov-13	11042013-001.SSF	139266.0752	5027
722309.5	4294358.588	6770	04-Nov-13	11042013-001.SSF	139267.1958	5028
722309.377	4294358.326	6613	04-Nov-13	11042013-001.SSF	139268.1221	5029
722309.32	4294358.432	6735	04-Nov-13	11042013-001.SSF	139269.1338	5030
722309.479	4294358.76	6893	04-Nov-13	11042013-001.SSF	139270.1572	5031
722309.58	4294359.15	6510	04-Nov-13	11042013-001.SSF	139271.146	5032
722309.339	4294359.599	6616	04-Nov-13	11042013-001.SSF	139272.1309	5033
722309.256	4294360.246	6737	04-Nov-13	11042013-001.SSF	139273.1782	5034
722309.063	4294360.932	7239	04-Nov-13	11042013-001.SSF	139274.0288	5035
722308.569	4294361.698	7087	04-Nov-13	11042013-001.SSF	139275.1089	5036

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722308.324	4294362.716	6806	04-Nov-13	11042013-001.SSF	139276.1201	5037
722307.971	4294363.572	6768	04-Nov-13	11042013-001.SSF	139277.1279	5038
722307.721	4294364.09	6522	04-Nov-13	11042013-001.SSF	139278.0781	5039
722307.725	4294364.251	6271	04-Nov-13	11042013-001.SSF	139279.248	5040
722307.841	4294364.303	6445	04-Nov-13	11042013-001.SSF	139280.1582	5041
722307.74	4294364.621	5935	04-Nov-13	11042013-001.SSF	139281.1792	5042
722307.537	4294365.141	6833	04-Nov-13	11042013-001.SSF	139281.9849	5043
722307.264	4294365.381	6761	04-Nov-13	11042013-001.SSF	139283.1519	5044
722307.206	4294365.455	6345	04-Nov-13	11042013-001.SSF	139284.1108	5045
722307.004	4294365.917	6494	04-Nov-13	11042013-001.SSF	139285.2339	5046
722306.616	4294366.467	6660	04-Nov-13	11042013-001.SSF	139286.0781	5047
722305.889	4294367.659	7519	04-Nov-13	11042013-001.SSF	139287.084	5048
722305.064	4294368.883	7349	04-Nov-13	11042013-001.SSF	139288.124	5049
722304.493	4294369.58	7921	04-Nov-13	11042013-001.SSF	139289.1279	5050
722304.104	4294370.19	7538	04-Nov-13	11042013-001.SSF	139289.9829	5051
722303.665	4294371.432	7308	04-Nov-13	11042013-001.SSF	139291.1611	5052
722303.605	4294372.416	7013	04-Nov-13	11042013-001.SSF	139292.1519	5053
722303.864	4294373.089	6622	04-Nov-13	11042013-001.SSF	139293.1548	5054
722304.335	4294373.578	6650	04-Nov-13	11042013-001.SSF	139294.1182	5055
722305.111	4294373.927	6530	04-Nov-13	11042013-001.SSF	139295.3188	5056
722305.556	4294374.006	6358	04-Nov-13	11042013-001.SSF	139296.0498	5057
722306.329	4294373.913	7041	04-Nov-13	11042013-001.SSF	139297.2979	5058
722306.897	4294373.762	7695	04-Nov-13	11042013-001.SSF	139298.1558	5059
722307.243	4294373.334	7104	04-Nov-13	11042013-001.SSF	139299.1592	5060
722307.324	4294372.965	7461	04-Nov-13	11042013-001.SSF	139300.0439	5061
722307.786	4294372.511	7796	04-Nov-13	11042013-001.SSF	139301.1738	5062
722308.211	4294372.227	7663	04-Nov-13	11042013-001.SSF	139301.9429	5063
722308.562	4294371.798	7408	04-Nov-13	11042013-001.SSF	139303.0322	5064
722308.815	4294371.177	7317	04-Nov-13	11042013-001.SSF	139303.9961	5065
722309.365	4294370.477	7880	04-Nov-13	11042013-001.SSF	139305.0498	5066
722309.991	4294369.864	7425	04-Nov-13	11042013-001.SSF	139306.0562	5067
722310.65	4294369.562	7702	04-Nov-13	11042013-001.SSF	139307.061	5068
722311.404	4294369.625	8089	04-Nov-13	11042013-001.SSF	139308.1011	5069
722311.906	4294369.686	7753	04-Nov-13	11042013-001.SSF	139309.1338	5070
722312.208	4294369.577	7406	04-Nov-13	11042013-001.SSF	139310.0591	5071
722312.524	4294368.914	7331	04-Nov-13	11042013-001.SSF	139311.2231	5072
722312.91	4294368.093	7026	04-Nov-13	11042013-001.SSF	139312.0688	5073
722313.251	4294367.36	7312	04-Nov-13	11042013-001.SSF	139313.1299	5074
722312.885	4294366.894	7270	04-Nov-13	11042013-001.SSF	139314.0508	5075
722313.057	4294366.246	7914	04-Nov-13	11042013-001.SSF	139315.084	5076
722313.557	4294365.348	7257	04-Nov-13	11042013-001.SSF	139315.9941	5077
722313.886	4294364.2	7284	04-Nov-13	11042013-001.SSF	139316.998	5078
722314.533	4294363.587	7652	04-Nov-13	11042013-001.SSF	139317.9858	5079
722315.382	4294362.966	7379	04-Nov-13	11042013-001.SSF	139319.041	5080
722315.912	4294362.066	7623	04-Nov-13	11042013-001.SSF	139319.9868	5081
722316.531	4294360.884	7738	04-Nov-13	11042013-001.SSF	139321.0488	5082
722316.942	4294360.31	7967	04-Nov-13	11042013-001.SSF	139322.0181	5083

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722317.283	4294359.529	8134	04-Nov-13	11042013-001.SSF	139323.1191	5084
722317.797	4294358.918	7995	04-Nov-13	11042013-001.SSF	139324.043	5085
722318.396	4294358.444	9162	04-Nov-13	11042013-001.SSF	139325.166	5086
722318.435	4294357.907	9181	04-Nov-13	11042013-001.SSF	139326.1079	5087
722318.391	4294357.581	9049	04-Nov-13	11042013-001.SSF	139327.104	5088
722318.39	4294357.513	9035	04-Nov-13	11042013-001.SSF	139328.064	5089
722318.352	4294357.528	8262	04-Nov-13	11042013-001.SSF	139329.0601	5090
722318.36	4294357.578	8697	04-Nov-13	11042013-001.SSF	139330.0322	5091
722318.346	4294357.705	8852	04-Nov-13	11042013-001.SSF	139331.123	5092
722318.361	4294357.799	9247	04-Nov-13	11042013-001.SSF	139332.1328	5093
722318.315	4294357.928	9753	04-Nov-13	11042013-001.SSF	139333.1748	5094
722318.274	4294358.015	9814	04-Nov-13	11042013-001.SSF	139334.1108	5095
722318.233	4294358.058	8895	04-Nov-13	11042013-001.SSF	139335.0391	5096
722318.226	4294358.137	9241	04-Nov-13	11042013-001.SSF	139336.1338	5097
722318.223	4294358.214	9233	04-Nov-13	11042013-001.SSF	139337.1191	5098
722318.15	4294358.28	8741	04-Nov-13	11042013-001.SSF	139338.0439	5099
722318.114	4294358.345	8996	04-Nov-13	11042013-001.SSF	139339.0859	5100
722318.06	4294358.392	9320	04-Nov-13	11042013-001.SSF	139340.0122	5101
722318.043	4294358.464	9210	04-Nov-13	11042013-001.SSF	139341.167	5102
722318.006	4294358.512	9306	04-Nov-13	11042013-001.SSF	139342.1558	5103
722317.97	4294358.536	9427	04-Nov-13	11042013-001.SSF	139343.1172	5104
722317.942	4294358.548	9360	04-Nov-13	11042013-001.SSF	139344.0879	5105
722317.968	4294358.526	8370	04-Nov-13	11042013-001.SSF	139345.1338	5106
722317.98	4294358.538	8900	04-Nov-13	11042013-001.SSF	139345.9761	5107
722318.111	4294358.464	8914	04-Nov-13	11042013-001.SSF	139347.0942	5108
722318.072	4294358.501	9229	04-Nov-13	11042013-001.SSF	139348.0088	5109
722318.038	4294358.472	9061	04-Nov-13	11042013-001.SSF	139349.1221	5110
722318.045	4294358.401	9327	04-Nov-13	11042013-001.SSF	139350.0571	5111
722318.176	4294358.318	8382	04-Nov-13	11042013-001.SSF	139352.0439	5113
722317.898	4294358.456	8735	04-Nov-13	11042013-001.SSF	139353.0239	5114
722317.902	4294358.463	9098	04-Nov-13	11042013-001.SSF	139353.98	5115
722317.884	4294358.502	9370	04-Nov-13	11042013-001.SSF	139355.0811	5116
722317.926	4294358.478	8735	04-Nov-13	11042013-001.SSF	139356.0068	5117
722318.066	4294358.449	8731	04-Nov-13	11042013-001.SSF	139357.02	5118
722318.15	4294358.441	8301	04-Nov-13	11042013-001.SSF	139357.9502	5119
722318.088	4294358.476	8779	04-Nov-13	11042013-001.SSF	139359.022	5120
722317.987	4294358.531	9333	04-Nov-13	11042013-001.SSF	139360.085	5121
722318.091	4294358.309	9240	04-Nov-13	11042013-001.SSF	139361.1099	5122
722318.479	4294357.75	9694	04-Nov-13	11042013-001.SSF	139363.1138	5124
722318.621	4294357.533	9293	04-Nov-13	11042013-001.SSF	139364.0029	5125
722318.724	4294357.545	8887	04-Nov-13	11042013-001.SSF	139365.084	5126
722318.787	4294357.582	8659	04-Nov-13	11042013-001.SSF	139366.0278	5127
722318.874	4294357.603	9010	04-Nov-13	11042013-001.SSF	139367.0669	5128
722319.004	4294357.874	9523	04-Nov-13	11042013-001.SSF	139368.022	5129
722319.079	4294358.103	9707	04-Nov-13	11042013-001.SSF	139369.0752	5130
722319.142	4294358.074	9915	04-Nov-13	11042013-001.SSF	139370.0142	5131
722319.082	4294357.971	9934	04-Nov-13	11042013-001.SSF	139371.0479	5132

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722319.093	4294358.002	9383	04-Nov-13	11042013-001.SSF	139371.9839	5133
722319.047	4294358.047	9500	04-Nov-13	11042013-001.SSF	139373.0708	5134
722319.015	4294358.055	9064	04-Nov-13	11042013-001.SSF	139374.0142	5135
722318.93	4294357.999	9156	04-Nov-13	11042013-001.SSF	139375.1382	5136
722318.869	4294357.915	8982	04-Nov-13	11042013-001.SSF	139375.9829	5137
722318.89	4294357.871	9012	04-Nov-13	11042013-001.SSF	139377.1421	5138
722318.951	4294357.841	8992	04-Nov-13	11042013-001.SSF	139378.0708	5139
722319.075	4294357.718	8928	04-Nov-13	11042013-001.SSF	139379.0508	5140
722319.111	4294357.678	8916	04-Nov-13	11042013-001.SSF	139379.9839	5141
722318.962	4294357.846	9155	04-Nov-13	11042013-001.SSF	139381.0679	5142
722318.905	4294357.908	9207	04-Nov-13	11042013-001.SSF	139382.0049	5143
722318.876	4294357.875	8839	04-Nov-13	11042013-001.SSF	139383.1699	5144
722319.018	4294357.804	8363	04-Nov-13	11042013-001.SSF	139385.0801	5146
722319.114	4294357.41	8319	04-Nov-13	11042013-001.SSF	139386.0352	5147
722318.714	4294356.898	8909	04-Nov-13	11042013-001.SSF	139387.0562	5148
722318.451	4294356.496	8266	04-Nov-13	11042013-001.SSF	139387.9941	5149
722318.09	4294355.894	8887	04-Nov-13	11042013-001.SSF	139389.1328	5150
722317.893	4294355.512	9019	04-Nov-13	11042013-001.SSF	139389.999	5151
722317.789	4294355.32	8583	04-Nov-13	11042013-001.SSF	139391.0508	5152
722317.899	4294355.131	8413	04-Nov-13	11042013-001.SSF	139392.0132	5153
722318.361	4294354.87	8010	04-Nov-13	11042013-001.SSF	139393.0239	5154
722318.697	4294353.942	8360	04-Nov-13	11042013-001.SSF	139393.936	5155
722319.554	4294353.045	8145	04-Nov-13	11042013-001.SSF	139395.0952	5156
722320.065	4294352.555	7814	04-Nov-13	11042013-001.SSF	139395.8882	5157
722320.523	4294352.107	7725	04-Nov-13	11042013-001.SSF	139397.0132	5158
722320.655	4294352.015	7518	04-Nov-13	11042013-001.SSF	139397.9888	5159
722320.657	4294352.037	7244	04-Nov-13	11042013-001.SSF	139399.04	5160
722320.731	4294351.921	7584	04-Nov-13	11042013-001.SSF	139400.0679	5161
722320.717	4294351.569	8114	04-Nov-13	11042013-001.SSF	139401.1328	5162
722320.487	4294351.453	8021	04-Nov-13	11042013-001.SSF	139402.042	5163
722320.475	4294351.49	7819	04-Nov-13	11042013-001.SSF	139403.1641	5164
722320.655	4294351.276	7991	04-Nov-13	11042013-001.SSF	139404.0439	5165
722320.984	4294351.111	7495	04-Nov-13	11042013-001.SSF	139405.1299	5166
722321.342	4294350.926	7598	04-Nov-13	11042013-001.SSF	139406.042	5167
722321.886	4294350.425	7784	04-Nov-13	11042013-001.SSF	139407.1519	5168
722322.361	4294350.216	8278	04-Nov-13	11042013-001.SSF	139408.0112	5169
722323.412	4294349.505	8751	04-Nov-13	11042013-001.SSF	139409.2881	5170
722324.045	4294349.246	8672	04-Nov-13	11042013-001.SSF	139409.998	5171
722324.591	4294348.55	9716	04-Nov-13	11042013-001.SSF	139411.0811	5172
722324.945	4294348.104	8780	04-Nov-13	11042013-001.SSF	139411.9131	5173
722325.094	4294348.102	8313	04-Nov-13	11042013-001.SSF	139413.019	5174
722324.999	4294348.27	8074	04-Nov-13	11042013-001.SSF	139413.9492	5175
722324.876	4294348.422	8344	04-Nov-13	11042013-001.SSF	139415.0898	5176
722324.703	4294348.45	8061	04-Nov-13	11042013-001.SSF	139415.9971	5177
722324.604	4294347.968	8239	04-Nov-13	11042013-001.SSF	139417.1362	5178
722324.535	4294347.33	7619	04-Nov-13	11042013-001.SSF	139417.9282	5179
722324.215	4294346.536	7323	04-Nov-13	11042013-001.SSF	139419.1021	5180

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722323.867	4294346.12	7502	04-Nov-13	11042013-001.SSF	139419.9839	5181
722324.385	4294345.631	7849	04-Nov-13	11042013-001.SSF	139421.1792	5182
722324.897	4294345.275	7400	04-Nov-13	11042013-001.SSF	139422.0049	5183
722325.045	4294345.33	7245	04-Nov-13	11042013-001.SSF	139423.1011	5184
722325.177	4294345.72	6985	04-Nov-13	11042013-001.SSF	139424.04	5185
722325.308	4294345.886	7319	04-Nov-13	11042013-001.SSF	139425.0698	5186
722325.326	4294345.989	6974	04-Nov-13	11042013-001.SSF	139426.0259	5187
722325.324	4294345.975	7005	04-Nov-13	11042013-001.SSF	139427.1128	5188
722325.262	4294345.793	7608	04-Nov-13	11042013-001.SSF	139428.0479	5189
722325.336	4294345.353	7534	04-Nov-13	11042013-001.SSF	139429.0952	5190
722325.724	4294344.514	7553	04-Nov-13	11042013-001.SSF	139429.9932	5191
722325.886	4294343.779	8328	04-Nov-13	11042013-001.SSF	139431.1128	5192
722326.087	4294343.672	8479	04-Nov-13	11042013-001.SSF	139432.0068	5193
722326.361	4294343.396	9015	04-Nov-13	11042013-001.SSF	139433.0908	5194
722326.336	4294343.098	8693	04-Nov-13	11042013-001.SSF	139434.0879	5195
722326.31	4294343.157	8317	04-Nov-13	11042013-001.SSF	139435.1348	5196
722326.312	4294343.314	8068	04-Nov-13	11042013-001.SSF	139436.0098	5197
722326.255	4294343.453	8348	04-Nov-13	11042013-001.SSF	139437.0732	5198
722326.223	4294343.519	7928	04-Nov-13	11042013-001.SSF	139438.0098	5199
722326.234	4294343.51	7992	04-Nov-13	11042013-001.SSF	139439.1211	5200
722326.236	4294343.497	8103	04-Nov-13	11042013-001.SSF	139440.0142	5201
722326.219	4294343.517	8263	04-Nov-13	11042013-001.SSF	139441.0908	5202
722326.232	4294343.585	8285	04-Nov-13	11042013-001.SSF	139442.019	5203
722326.281	4294343.626	7953	04-Nov-13	11042013-001.SSF	139443.0391	5204
722326.288	4294343.668	8073	04-Nov-13	11042013-001.SSF	139443.9722	5205
722326.234	4294343.667	8508	04-Nov-13	11042013-001.SSF	139445.0591	5206
722326.218	4294343.65	8513	04-Nov-13	11042013-001.SSF	139445.9912	5207
722326.24	4294343.639	8051	04-Nov-13	11042013-001.SSF	139447.0361	5208
722326.253	4294343.658	7844	04-Nov-13	11042013-001.SSF	139447.918	5209
722326.263	4294343.639	8057	04-Nov-13	11042013-001.SSF	139449.0342	5210
722326.234	4294343.638	7907	04-Nov-13	11042013-001.SSF	139449.9839	5211
722326.221	4294343.738	7965	04-Nov-13	11042013-001.SSF	139451.0918	5212
722326.229	4294343.744	8065	04-Nov-13	11042013-001.SSF	139451.9902	5213
722326.235	4294343.582	8309	04-Nov-13	11042013-001.SSF	139453.1528	5214
722326.249	4294343.512	8251	04-Nov-13	11042013-001.SSF	139454.021	5215
722326.238	4294343.449	8009	04-Nov-13	11042013-001.SSF	139455.0322	5216
722326.224	4294343.276	8127	04-Nov-13	11042013-001.SSF	139455.9268	5217
722326.402	4294342.98	8389	04-Nov-13	11042013-001.SSF	139457.0342	5218
722326.66	4294342.952	8304	04-Nov-13	11042013-001.SSF	139457.9189	5219
722327.004	4294342.915	8376	04-Nov-13	11042013-001.SSF	139459.0688	5220
722327.275	4294342.981	8551	04-Nov-13	11042013-001.SSF	139460.002	5221
722327.526	4294343.427	8920	04-Nov-13	11042013-001.SSF	139461.0479	5222
722327.638	4294344.072	9480	04-Nov-13	11042013-001.SSF	139461.9541	5223
722327.782	4294344.997	9060	04-Nov-13	11042013-001.SSF	139463.085	5224
722327.5	4294345.543	8178	04-Nov-13	11042013-001.SSF	139463.9521	5225
722327.183	4294346.214	8658	04-Nov-13	11042013-001.SSF	139465.0649	5226
722326.989	4294346.706	8350	04-Nov-13	11042013-001.SSF	139465.9932	5227

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722326.754	4294346.641	8957	04-Nov-13	11042013-001.SSF	139467.103	5228
722326.795	4294346.453	9231	04-Nov-13	11042013-001.SSF	139467.9868	5229
722326.876	4294346.446	8725	04-Nov-13	11042013-001.SSF	139469.0151	5230
722326.914	4294346.399	8035	04-Nov-13	11042013-001.SSF	139469.9541	5231
722326.764	4294346.344	8644	04-Nov-13	11042013-001.SSF	139471.0332	5232
722326.831	4294346.19	8335	04-Nov-13	11042013-001.SSF	139471.9238	5233
722326.97	4294346.088	8116	04-Nov-13	11042013-001.SSF	139473.0669	5234
722326.818	4294346.275	8322	04-Nov-13	11042013-001.SSF	139473.9268	5235
722326.445	4294346.126	8289	04-Nov-13	11042013-001.SSF	139475.126	5236
722326.404	4294346.11	8577	04-Nov-13	11042013-001.SSF	139475.9482	5237
722326.358	4294346.271	9040	04-Nov-13	11042013-001.SSF	139477.1318	5238
722326.314	4294346.22	7935	04-Nov-13	11042013-001.SSF	139477.9141	5239
722326.361	4294346.192	8183	04-Nov-13	11042013-001.SSF	139479.1348	5240
722326.36	4294346.169	8578	04-Nov-13	11042013-001.SSF	139479.9531	5241
722326.291	4294346.118	9070	04-Nov-13	11042013-001.SSF	139480.8862	5242
722326.215	4294346.085	8979	04-Nov-13	11042013-001.SSF	139481.896	5243
722326.457	4294345.928	9033	04-Nov-13	11042013-001.SSF	139482.999	5244
722326.66	4294345.918	8733	04-Nov-13	11042013-001.SSF	139483.8911	5245
722326.714	4294345.994	8362	04-Nov-13	11042013-001.SSF	139485.0811	5246
722326.832	4294345.871	8469	04-Nov-13	11042013-001.SSF	139485.9692	5247
722326.937	4294345.737	8423	04-Nov-13	11042013-001.SSF	139487.1021	5248
722326.984	4294345.735	8623	04-Nov-13	11042013-001.SSF	139487.9678	5249
722327.031	4294345.731	8983	04-Nov-13	11042013-001.SSF	139489.1699	5250
722327.076	4294345.725	8503	04-Nov-13	11042013-001.SSF	139489.9058	5251
722327.127	4294345.755	8705	04-Nov-13	11042013-001.SSF	139490.9341	5252
722327.197	4294345.78	8564	04-Nov-13	11042013-001.SSF	139491.9331	5253
722327.099	4294345.819	8822	04-Nov-13	11042013-001.SSF	139492.938	5254
722326.959	4294345.864	8727	04-Nov-13	11042013-001.SSF	139493.8389	5255
722326.91	4294345.967	9064	04-Nov-13	11042013-001.SSF	139494.998	5256
722326.884	4294346.026	9291	04-Nov-13	11042013-001.SSF	139495.8628	5257
722326.953	4294345.897	9238	04-Nov-13	11042013-001.SSF	139497.0229	5258
722326.998	4294345.783	8902	04-Nov-13	11042013-001.SSF	139497.9199	5259
722327.069	4294345.663	8884	04-Nov-13	11042013-001.SSF	139499.0278	5260
722327.129	4294345.654	8747	04-Nov-13	11042013-001.SSF	139499.9248	5261
722327.15	4294345.501	8610	04-Nov-13	11042013-001.SSF	139501.104	5262
722327.217	4294345.525	8593	04-Nov-13	11042013-001.SSF	139501.957	5263
722327.263	4294345.527	8313	04-Nov-13	11042013-001.SSF	139503.1479	5264
722327.212	4294345.617	8479	04-Nov-13	11042013-001.SSF	139503.8799	5265
722327.214	4294345.65	8744	04-Nov-13	11042013-001.SSF	139505.0239	5266
722327.267	4294345.575	9163	04-Nov-13	11042013-001.SSF	139505.8569	5267
722327.284	4294345.489	9054	04-Nov-13	11042013-001.SSF	139507.0322	5268
722327.184	4294345.565	8963	04-Nov-13	11042013-001.SSF	139507.9282	5269
722327.093	4294345.664	8724	04-Nov-13	11042013-001.SSF	139508.959	5270
722327.105	4294345.723	8875	04-Nov-13	11042013-001.SSF	139509.8701	5271
722327.183	4294345.789	8779	04-Nov-13	11042013-001.SSF	139511.0952	5272
722327.144	4294345.881	9206	04-Nov-13	11042013-001.SSF	139511.9492	5273
722327.116	4294346.024	8831	04-Nov-13	11042013-001.SSF	139513.0679	5274

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722327.079	4294346.127	8950	04-Nov-13	11042013-001.SSF	139513.9409	5275
722326.992	4294346.214	8394	04-Nov-13	11042013-001.SSF	139515.064	5276
722326.972	4294346.232	8434	04-Nov-13	11042013-001.SSF	139515.9922	5277
722326.875	4294346.18	8779	04-Nov-13	11042013-001.SSF	139517.0601	5278
722326.81	4294346.448	8928	04-Nov-13	11042013-001.SSF	139517.9878	5279
722326.801	4294346.544	9154	04-Nov-13	11042013-001.SSF	139518.9868	5280
722326.926	4294346.297	8839	04-Nov-13	11042013-001.SSF	139519.9438	5281
722326.965	4294346.164	8632	04-Nov-13	11042013-001.SSF	139521.0308	5282
722327.127	4294346.061	8620	04-Nov-13	11042013-001.SSF	139521.9868	5283
722327.232	4294346.018	8501	04-Nov-13	11042013-001.SSF	139523.145	5284
722327.28	4294345.944	8539	04-Nov-13	11042013-001.SSF	139524.0952	5285
722327.296	4294345.823	8186	04-Nov-13	11042013-001.SSF	139525.0571	5286
722327.26	4294345.798	7949	04-Nov-13	11042013-001.SSF	139525.917	5287
722327.143	4294345.723	8289	04-Nov-13	11042013-001.SSF	139527.0308	5288
722327.041	4294345.78	8502	04-Nov-13	11042013-001.SSF	139527.9189	5289
722326.993	4294345.87	8585	04-Nov-13	11042013-001.SSF	139529.0029	5290
722326.742	4294345.783	8871	04-Nov-13	11042013-001.SSF	139529.9248	5291
722326.568	4294345.922	9093	04-Nov-13	11042013-001.SSF	139531.1021	5292
722326.527	4294346.037	9044	04-Nov-13	11042013-001.SSF	139531.981	5293
722326.524	4294346.268	9197	04-Nov-13	11042013-001.SSF	139533.042	5294
722326.636	4294346.418	9411	04-Nov-13	11042013-001.SSF	139533.9829	5295
722326.533	4294346.864	9223	04-Nov-13	11042013-001.SSF	139535.083	5296
722326.387	4294346.93	9231	04-Nov-13	11042013-001.SSF	139535.8818	5297
722326.003	4294346.993	8905	04-Nov-13	11042013-001.SSF	139537.043	5298
722325.908	4294346.965	9021	04-Nov-13	11042013-001.SSF	139537.9712	5299
722325.842	4294346.889	8832	04-Nov-13	11042013-001.SSF	139539.1831	5300
722325.873	4294346.941	8320	04-Nov-13	11042013-001.SSF	139539.979	5301
722325.89	4294347.22	8280	04-Nov-13	11042013-001.SSF	139540.9741	5302
722325.976	4294347.405	8028	04-Nov-13	11042013-001.SSF	139542.9839	5304
722325.949	4294347.427	8505	04-Nov-13	11042013-001.SSF	139543.8872	5305
722325.9	4294347.485	8594	04-Nov-13	11042013-001.SSF	139545.0762	5306
722325.991	4294347.472	8419	04-Nov-13	11042013-001.SSF	139546.0122	5307
722325.872	4294347.69	8066	04-Nov-13	11042013-001.SSF	139547.0928	5308
722325.759	4294347.845	8774	04-Nov-13	11042013-001.SSF	139547.9258	5309
722325.632	4294347.925	8970	04-Nov-13	11042013-001.SSF	139548.9888	5310
722325.536	4294347.949	9128	04-Nov-13	11042013-001.SSF	139549.96	5311
722325.432	4294347.991	9485	04-Nov-13	11042013-001.SSF	139550.895	5312
722325.476	4294348.011	9348	04-Nov-13	11042013-001.SSF	139551.9189	5313
722325.578	4294347.957	8843	04-Nov-13	11042013-001.SSF	139552.9438	5314
722325.666	4294347.895	8364	04-Nov-13	11042013-001.SSF	139553.8008	5315
722325.657	4294347.808	8920	04-Nov-13	11042013-001.SSF	139554.9512	5316
722325.62	4294347.766	8640	04-Nov-13	11042013-001.SSF	139555.876	5317
722325.6	4294347.747	9202	04-Nov-13	11042013-001.SSF	139557.02	5318
722325.647	4294347.72	9023	04-Nov-13	11042013-001.SSF	139557.959	5319
722325.606	4294347.68	9343	04-Nov-13	11042013-001.SSF	139558.979	5320
722325.654	4294347.679	8045	04-Nov-13	11042013-001.SSF	139559.834	5321
722325.705	4294347.683	8238	04-Nov-13	11042013-001.SSF	139560.9888	5322

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722325.68	4294347.666	7926	04-Nov-13	11042013-001.SSF	139561.833	5323
722325.696	4294347.64	7946	04-Nov-13	11042013-001.SSF	139562.9971	5324
722325.752	4294347.645	8182	04-Nov-13	11042013-001.SSF	139563.9238	5325
722325.775	4294347.561	8270	04-Nov-13	11042013-001.SSF	139565.0342	5326
722325.753	4294347.422	8244	04-Nov-13	11042013-001.SSF	139566.0059	5327
722325.823	4294347.343	8455	04-Nov-13	11042013-001.SSF	139567.1069	5328
722325.824	4294347.372	8790	04-Nov-13	11042013-001.SSF	139567.939	5329
722325.792	4294347.439	8650	04-Nov-13	11042013-001.SSF	139568.981	5330
722325.686	4294347.44	8960	04-Nov-13	11042013-001.SSF	139569.8872	5331
722325.685	4294347.51	8685	04-Nov-13	11042013-001.SSF	139571.0972	5332
722325.82	4294347.569	8920	04-Nov-13	11042013-001.SSF	139571.8931	5333
722325.857	4294347.714	8467	04-Nov-13	11042013-001.SSF	139573.0322	5334
722325.843	4294347.718	8505	04-Nov-13	11042013-001.SSF	139573.9512	5335
722325.87	4294347.669	8789	04-Nov-13	11042013-001.SSF	139574.9541	5336
722325.879	4294347.698	8362	04-Nov-13	11042013-001.SSF	139575.8521	5337
722325.833	4294347.655	8714	04-Nov-13	11042013-001.SSF	139577.0718	5338
722325.873	4294347.633	8899	04-Nov-13	11042013-001.SSF	139577.8721	5339
722325.895	4294347.637	8395	04-Nov-13	11042013-001.SSF	139579.0142	5340
722325.877	4294347.622	8472	04-Nov-13	11042013-001.SSF	139579.8828	5341
722325.87	4294347.591	8396	04-Nov-13	11042013-001.SSF	139580.9351	5342
722325.844	4294347.584	9057	04-Nov-13	11042013-001.SSF	139581.8618	5343
722325.769	4294347.37	8665	04-Nov-13	11042013-001.SSF	139582.9111	5344
722325.843	4294347.473	8601	04-Nov-13	11042013-001.SSF	139583.9048	5345
722325.511	4294347.882	8475	04-Nov-13	11042013-001.SSF	139584.9209	5346
722325.242	4294348.454	8367	04-Nov-13	11042013-001.SSF	139585.8359	5347
722324.713	4294349.183	9004	04-Nov-13	11042013-001.SSF	139586.9258	5348
722324.419	4294349.872	8747	04-Nov-13	11042013-001.SSF	139587.8691	5349
722323.836	4294350.747	8525	04-Nov-13	11042013-001.SSF	139589.958	5351
722323.448	4294350.879	8807	04-Nov-13	11042013-001.SSF	139591.0981	5352
722322.841	4294350.98	8179	04-Nov-13	11042013-001.SSF	139591.98	5353
722321.935	4294351.265	7946	04-Nov-13	11042013-001.SSF	139593.0928	5354
722321.615	4294351.571	7964	04-Nov-13	11042013-001.SSF	139593.9258	5355
722321.511	4294352.205	7930	04-Nov-13	11042013-001.SSF	139595.061	5356
722321.498	4294352.968	8885	04-Nov-13	11042013-001.SSF	139596.0078	5357
722321.724	4294354.032	9003	04-Nov-13	11042013-001.SSF	139597.0078	5358
722321.615	4294354.758	8986	04-Nov-13	11042013-001.SSF	139597.8799	5359
722321.11	4294355.277	8992	04-Nov-13	11042013-001.SSF	139599.062	5360
722320.791	4294355.697	9033	04-Nov-13	11042013-001.SSF	139599.8569	5361
722320.232	4294356.124	8628	04-Nov-13	11042013-001.SSF	139600.959	5362
722320.034	4294356.794	9211	04-Nov-13	11042013-001.SSF	139601.8198	5363
722319.748	4294357.792	9538	04-Nov-13	11042013-001.SSF	139602.9829	5364
722319.429	4294358.254	9033	04-Nov-13	11042013-001.SSF	139603.896	5365
722319.179	4294358.705	8883	04-Nov-13	11042013-001.SSF	139604.9458	5366
722318.791	4294359.133	8912	04-Nov-13	11042013-001.SSF	139605.8828	5367
722318.246	4294359.688	8778	04-Nov-13	11042013-001.SSF	139606.9512	5368
722317.907	4294359.957	9010	04-Nov-13	11042013-001.SSF	139607.8428	5369
722317.63	4294359.745	9425	04-Nov-13	11042013-001.SSF	139608.9302	5370

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722317.497	4294359.116	9089	04-Nov-13	11042013-001.SSF	139609.8379	5371
722317.659	4294358.51	9155	04-Nov-13	11042013-001.SSF	139610.939	5372
722317.874	4294358.363	9394	04-Nov-13	11042013-001.SSF	139611.8159	5373
722317.944	4294358.412	9019	04-Nov-13	11042013-001.SSF	139613.022	5374
722318.005	4294358.47	9153	04-Nov-13	11042013-001.SSF	139613.8389	5375
722317.968	4294358.54	8808	04-Nov-13	11042013-001.SSF	139614.9351	5376
722317.87	4294358.566	9170	04-Nov-13	11042013-001.SSF	139615.8501	5377
722317.898	4294358.491	8878	04-Nov-13	11042013-001.SSF	139617.041	5378
722317.923	4294358.211	8789	04-Nov-13	11042013-001.SSF	139617.9702	5379
722318.115	4294357.638	8506	04-Nov-13	11042013-001.SSF	139618.9712	5380
722318.91	4294357.188	8325	04-Nov-13	11042013-001.SSF	139621.061	5382
722319.181	4294356.876	8808	04-Nov-13	11042013-001.SSF	139621.9751	5383
722319.706	4294356.699	9522	04-Nov-13	11042013-001.SSF	139622.9902	5384
722320.149	4294356.442	9608	04-Nov-13	11042013-001.SSF	139623.9731	5385
722320.296	4294356.127	9289	04-Nov-13	11042013-001.SSF	139625.0161	5386
722320.328	4294356.073	9395	04-Nov-13	11042013-001.SSF	139625.79	5387
722320.213	4294356.102	9620	04-Nov-13	11042013-001.SSF	139626.9331	5388
722320.218	4294356.004	9423	04-Nov-13	11042013-001.SSF	139627.9419	5389
722319.996	4294355.9	9478	04-Nov-13	11042013-001.SSF	139628.937	5390
722319.911	4294355.819	9471	04-Nov-13	11042013-001.SSF	139629.7959	5391
722320.32	4294355.708	9167	04-Nov-13	11042013-001.SSF	139631.001	5392
722320.53	4294355.682	8839	04-Nov-13	11042013-001.SSF	139631.9722	5393
722320.334	4294355.398	8714	04-Nov-13	11042013-001.SSF	139632.9751	5394
722320.387	4294355.124	8539	04-Nov-13	11042013-001.SSF	139633.9712	5395
722320.618	4294354.921	8793	04-Nov-13	11042013-001.SSF	139635.0288	5396
722320.638	4294354.79	8928	04-Nov-13	11042013-001.SSF	139635.939	5397
722320.679	4294354.713	8615	04-Nov-13	11042013-001.SSF	139636.9429	5398
722320.975	4294354.435	8651	04-Nov-13	11042013-001.SSF	139637.877	5399
722321.431	4294353.923	9098	04-Nov-13	11042013-001.SSF	139638.8789	5400
722321.828	4294353.151	8958	04-Nov-13	11042013-001.SSF	139639.7861	5401
722321.729	4294352.054	8436	04-Nov-13	11042013-001.SSF	139641.0718	5402
722321.67	4294351.6	7783	04-Nov-13	11042013-001.SSF	139641.8379	5403
722321.651	4294351.235	7287	04-Nov-13	11042013-001.SSF	139642.9629	5404
722322.109	4294350.871	7699	04-Nov-13	11042013-001.SSF	139643.96	5405
722323.048	4294350.708	7623	04-Nov-13	11042013-001.SSF	139645.0068	5406
722323.96	4294350.284	8030	04-Nov-13	11042013-001.SSF	139645.8511	5407
722325.068	4294349.515	8777	04-Nov-13	11042013-001.SSF	139646.9971	5408
722325.651	4294349.168	8867	04-Nov-13	11042013-001.SSF	139647.8418	5409
722326.501	4294348.409	8640	04-Nov-13	11042013-001.SSF	139649.002	5410
722327.111	4294347.775	8992	04-Nov-13	11042013-001.SSF	139649.8149	5411
722327.778	4294346.975	8276	04-Nov-13	11042013-001.SSF	139651	5412
722327.954	4294346.436	8667	04-Nov-13	11042013-001.SSF	139651.811	5413
722327.869	4294345.367	8753	04-Nov-13	11042013-001.SSF	139652.9321	5414
722327.545	4294344.636	8576	04-Nov-13	11042013-001.SSF	139653.8511	5415
722327.063	4294344.171	8176	04-Nov-13	11042013-001.SSF	139654.9692	5416
722326.652	4294344.004	8626	04-Nov-13	11042013-001.SSF	139655.7861	5417
722326.185	4294343.923	8107	04-Nov-13	11042013-001.SSF	139656.9282	5418

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722325.976	4294343.853	8040	04-Nov-13	11042013-001.SSF	139657.8662	5419
722326.002	4294343.91	8055	04-Nov-13	11042013-001.SSF	139658.894	5420
722326.082	4294343.933	8333	04-Nov-13	11042013-001.SSF	139659.8691	5421
722325.968	4294343.858	8145	04-Nov-13	11042013-001.SSF	139660.9619	5422
722325.841	4294343.786	8564	04-Nov-13	11042013-001.SSF	139661.877	5423
722325.709	4294343.699	8485	04-Nov-13	11042013-001.SSF	139662.9878	5424
722325.609	4294343.567	7937	04-Nov-13	11042013-001.SSF	139663.833	5425
722325.106	4294343.459	8402	04-Nov-13	11042013-001.SSF	139664.9648	5426
722324.56	4294343.468	8191	04-Nov-13	11042013-001.SSF	139665.8179	5427
722323.847	4294343.546	7457	04-Nov-13	11042013-001.SSF	139666.9282	5428
722323.406	4294343.739	7052	04-Nov-13	11042013-001.SSF	139667.811	5429
722323.052	4294343.913	7267	04-Nov-13	11042013-001.SSF	139668.8838	5430
722322.535	4294344.088	7140	04-Nov-13	11042013-001.SSF	139669.7861	5431
722321.996	4294344.433	7248	04-Nov-13	11042013-001.SSF	139670.917	5432
722321.325	4294344.899	7647	04-Nov-13	11042013-001.SSF	139671.9219	5433
722320.962	4294345.502	7871	04-Nov-13	11042013-001.SSF	139672.9248	5434
722320.554	4294345.943	7863	04-Nov-13	11042013-001.SSF	139673.8071	5435
722319.944	4294346.585	7977	04-Nov-13	11042013-001.SSF	139674.918	5436
722319.52	4294347.293	7652	04-Nov-13	11042013-001.SSF	139675.9248	5437
722318.996	4294347.567	7304	04-Nov-13	11042013-001.SSF	139676.9971	5438
722318.738	4294347.93	7686	04-Nov-13	11042013-001.SSF	139677.9839	5439
722318.118	4294348.404	7245	04-Nov-13	11042013-001.SSF	139679.9258	5441
722317.78	4294348.761	7585	04-Nov-13	11042013-001.SSF	139680.875	5442
722317.556	4294349.081	7679	04-Nov-13	11042013-001.SSF	139681.812	5443
722317.13	4294349.581	7439	04-Nov-13	11042013-001.SSF	139682.8701	5444
722316.867	4294350.133	7882	04-Nov-13	11042013-001.SSF	139683.7769	5445
722316.549	4294350.723	7508	04-Nov-13	11042013-001.SSF	139684.8828	5446
722316.235	4294351.037	8446	04-Nov-13	11042013-001.SSF	139685.8052	5447
722315.974	4294351.578	8583	04-Nov-13	11042013-001.SSF	139686.9141	5448
722315.708	4294351.916	8375	04-Nov-13	11042013-001.SSF	139687.8809	5449
722315.412	4294352.289	7853	04-Nov-13	11042013-001.SSF	139688.9209	5450
722315.427	4294352.574	7732	04-Nov-13	11042013-001.SSF	139689.8091	5451
722315.231	4294353.021	7387	04-Nov-13	11042013-001.SSF	139690.9282	5452
722315.029	4294353.645	7320	04-Nov-13	11042013-001.SSF	139691.8301	5453
722314.77	4294354.619	7207	04-Nov-13	11042013-001.SSF	139692.9199	5454
722314.505	4294355.096	6799	04-Nov-13	11042013-001.SSF	139693.896	5455
722314.066	4294355.718	6907	04-Nov-13	11042013-001.SSF	139694.9551	5456
722313.566	4294355.813	6375	04-Nov-13	11042013-001.SSF	139695.98	5457
722312.763	4294355.654	6211	04-Nov-13	11042013-001.SSF	139696.9761	5458
722312.158	4294355.758	6583	04-Nov-13	11042013-001.SSF	139697.8672	5459
722311.647	4294355.81	6463	04-Nov-13	11042013-001.SSF	139698.9238	5460
722311.147	4294355.436	6920	04-Nov-13	11042013-001.SSF	139699.813	5461
722310.689	4294355.065	6922	04-Nov-13	11042013-001.SSF	139700.9341	5462
722310.628	4294355.045	7081	04-Nov-13	11042013-001.SSF	139701.7588	5463
722310.912	4294354.915	7200	04-Nov-13	11042013-001.SSF	139702.9448	5464
722311.17	4294354.529	7118	04-Nov-13	11042013-001.SSF	139703.8428	5465
722311.291	4294354.084	7214	04-Nov-13	11042013-001.SSF	139704.8799	5466

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722311.504	4294353.866	7417	04-Nov-13	11042013-001.SSF	139705.7769	5467
722312.24	4294353.622	7105	04-Nov-13	11042013-001.SSF	139706.8262	5468
722312.994	4294353.441	6876	04-Nov-13	11042013-001.SSF	139707.7661	5469
722313.544	4294353.093	7025	04-Nov-13	11042013-001.SSF	139708.9199	5470
722313.784	4294352.78	7177	04-Nov-13	11042013-001.SSF	139709.7578	5471
722314.094	4294352.591	7217	04-Nov-13	11042013-001.SSF	139711.0591	5472
722314.439	4294352.652	7539	04-Nov-13	11042013-001.SSF	139711.8608	5473
722314.716	4294352.493	6881	04-Nov-13	11042013-001.SSF	139712.894	5474
722314.916	4294352.317	7538	04-Nov-13	11042013-001.SSF	139713.8252	5475
722315.12	4294352.191	7765	04-Nov-13	11042013-001.SSF	139714.9282	5476
722315.666	4294351.64	7863	04-Nov-13	11042013-001.SSF	139715.8789	5477
722316.75	4294350.898	8442	04-Nov-13	11042013-001.SSF	139716.9209	5478
722317.492	4294350.066	8604	04-Nov-13	11042013-001.SSF	139717.8818	5479
722318.441	4294349.409	8642	04-Nov-13	11042013-001.SSF	139718.9209	5480
722319.405	4294349.033	8221	04-Nov-13	11042013-001.SSF	139719.9209	5481
722319.745	4294348.467	7849	04-Nov-13	11042013-001.SSF	139720.9219	5482
722319.901	4294347.841	7565	04-Nov-13	11042013-001.SSF	139721.875	5483
722320.122	4294347.513	7713	04-Nov-13	11042013-001.SSF	139722.9258	5484
722320.383	4294347.343	7361	04-Nov-13	11042013-001.SSF	139723.8242	5485
722320.703	4294347.105	6735	04-Nov-13	11042013-001.SSF	139724.9268	5486
722321.022	4294346.53	6953	04-Nov-13	11042013-001.SSF	139725.8159	5487
722321.726	4294345.643	7278	04-Nov-13	11042013-001.SSF	139726.957	5488
722322.159	4294345.201	7019	04-Nov-13	11042013-001.SSF	139727.8779	5489
722322.382	4294344.712	7128	04-Nov-13	11042013-001.SSF	139728.9302	5490
722322.559	4294344.143	7384	04-Nov-13	11042013-001.SSF	139729.895	5491
722322.67	4294343.785	7281	04-Nov-13	11042013-001.SSF	139730.9238	5492
722322.791	4294343.657	7065	04-Nov-13	11042013-001.SSF	139731.8208	5493
722322.824	4294343.607	7792	04-Nov-13	11042013-001.SSF	139732.8589	5494
722322.805	4294343.611	8200	04-Nov-13	11042013-001.SSF	139733.7402	5495
722322.813	4294343.624	7687	04-Nov-13	11042013-001.SSF	139734.8818	5496
722322.809	4294343.641	7955	04-Nov-13	11042013-001.SSF	139735.834	5497
722322.636	4294343.654	7271	04-Nov-13	11042013-001.SSF	139736.9561	5498
722322.654	4294343.716	7292	04-Nov-13	11042013-001.SSF	139737.8589	5499
722322.609	4294343.713	7417	04-Nov-13	11042013-001.SSF	139738.9111	5500
722322.61	4294343.705	7472	04-Nov-13	11042013-001.SSF	139739.7749	5501
722322.636	4294343.699	7150	04-Nov-13	11042013-001.SSF	139740.8428	5502
722322.564	4294343.725	7592	04-Nov-13	11042013-001.SSF	139741.7871	5503
722322.551	4294343.717	7803	04-Nov-13	11042013-001.SSF	139742.7998	5504
722322.539	4294343.679	7599	04-Nov-13	11042013-001.SSF	139743.708	5505
722322.511	4294343.645	7829	04-Nov-13	11042013-001.SSF	139744.8442	5506
722322.481	4294343.645	7209	04-Nov-13	11042013-001.SSF	139745.8008	5507
722322.514	4294343.677	7197	04-Nov-13	11042013-001.SSF	139746.9331	5508
722322.552	4294343.585	7446	04-Nov-13	11042013-001.SSF	139747.8408	5509
722322.597	4294343.461	6941	04-Nov-13	11042013-001.SSF	139748.874	5510
722322.636	4294343.39	7744	04-Nov-13	11042013-001.SSF	139749.8101	5511
722322.677	4294343.413	7513	04-Nov-13	11042013-001.SSF	139750.9399	5512
722322.67	4294343.434	7301	04-Nov-13	11042013-001.SSF	139751.8252	5513

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722322.589	4294343.472	7677	04-Nov-13	11042013-001.SSF	139752.9629	5514
722322.563	4294343.604	7626	04-Nov-13	11042013-001.SSF	139753.7852	5515
722322.588	4294343.702	7657	04-Nov-13	11042013-001.SSF	139754.9009	5516
722322.587	4294343.694	7344	04-Nov-13	11042013-001.SSF	139755.8271	5517
722322.57	4294343.671	7701	04-Nov-13	11042013-001.SSF	139756.9502	5518
722322.556	4294343.727	7564	04-Nov-13	11042013-001.SSF	139757.8281	5519
722322.6	4294343.761	7562	04-Nov-13	11042013-001.SSF	139758.9468	5520
722322.557	4294343.783	7666	04-Nov-13	11042013-001.SSF	139759.8198	5521
722322.564	4294343.822	7905	04-Nov-13	11042013-001.SSF	139760.9502	5522
722322.564	4294343.806	8009	04-Nov-13	11042013-001.SSF	139761.8799	5523
722322.577	4294343.769	7662	04-Nov-13	11042013-001.SSF	139763.0049	5524
722322.582	4294343.75	7332	04-Nov-13	11042013-001.SSF	139763.8262	5525
722322.603	4294343.753	7214	04-Nov-13	11042013-001.SSF	139764.9849	5526
722322.591	4294343.734	7238	04-Nov-13	11042013-001.SSF	139765.771	5527
722322.562	4294343.775	6659	04-Nov-13	11042013-001.SSF	139766.8301	5528
722322.568	4294343.87	6678	04-Nov-13	11042013-001.SSF	139767.7031	5529
722322.608	4294344.008	6786	04-Nov-13	11042013-001.SSF	139768.8901	5530
722322.563	4294344.028	6675	04-Nov-13	11042013-001.SSF	139769.7031	5531
722322.489	4294344.018	6987	04-Nov-13	11042013-001.SSF	139770.9038	5532
722322.491	4294344.063	7282	04-Nov-13	11042013-001.SSF	139771.8091	5533
722322.437	4294344.011	7381	04-Nov-13	11042013-001.SSF	139772.8428	5534
722322.373	4294344.03	7362	04-Nov-13	11042013-001.SSF	139773.8179	5535
722322.286	4294343.997	7681	04-Nov-13	11042013-001.SSF	139774.958	5536
722322.347	4294343.952	7673	04-Nov-13	11042013-001.SSF	139775.8921	5537
722322.459	4294343.956	8178	04-Nov-13	11042013-001.SSF	139777.0781	5538
722322.489	4294343.945	7653	04-Nov-13	11042013-001.SSF	139777.8481	5539
722322.545	4294343.881	7312	04-Nov-13	11042013-001.SSF	139778.8931	5540
722322.557	4294343.894	7323	04-Nov-13	11042013-001.SSF	139779.8291	5541
722322.524	4294343.858	6886	04-Nov-13	11042013-001.SSF	139780.8721	5542
722322.503	4294343.871	6918	04-Nov-13	11042013-001.SSF	139781.9019	5543
722322.462	4294343.99	7056	04-Nov-13	11042013-001.SSF	139782.874	5544
722322.485	4294344.042	7629	04-Nov-13	11042013-001.SSF	139783.877	5545
722322.518	4294343.926	7261	04-Nov-13	11042013-001.SSF	139784.8779	5546
722322.53	4294343.798	7714	04-Nov-13	11042013-001.SSF	139785.8218	5547
722322.352	4294343.712	7564	04-Nov-13	11042013-001.SSF	139786.835	5548
722322.352	4294343.961	7352	04-Nov-13	11042013-001.SSF	139787.8262	5549
722322.279	4294344.758	6716	04-Nov-13	11042013-001.SSF	139788.8262	5550
722322.212	4294345.386	6882	04-Nov-13	11042013-001.SSF	139789.7588	5551
722322.094	4294345.779	7464	04-Nov-13	11042013-001.SSF	139790.8779	5552
722322.016	4294345.839	7491	04-Nov-13	11042013-001.SSF	139791.8398	5553
722322.049	4294345.773	7251	04-Nov-13	11042013-001.SSF	139792.8809	5554
722322.072	4294345.705	8046	04-Nov-13	11042013-001.SSF	139793.8232	5555
722322.139	4294345.77	8178	04-Nov-13	11042013-001.SSF	139794.9409	5556
722322.302	4294345.532	7803	04-Nov-13	11042013-001.SSF	139795.8862	5557
722322.697	4294345.076	7479	04-Nov-13	11042013-001.SSF	139796.936	5558
722323.267	4294344.533	7432	04-Nov-13	11042013-001.SSF	139797.8359	5559
722324.079	4294344.199	7225	04-Nov-13	11042013-001.SSF	139798.894	5560

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722324.502	4294344.136	7214	04-Nov-13	11042013-001.SSF	139799.813	5561
722324.526	4294344.052	7125	04-Nov-13	11042013-001.SSF	139800.9482	5562
722324.497	4294344.023	7893	04-Nov-13	11042013-001.SSF	139801.7861	5563
722324.452	4294343.995	7747	04-Nov-13	11042013-001.SSF	139802.9209	5564
722324.443	4294344.014	6907	04-Nov-13	11042013-001.SSF	139803.8452	5565
722324.394	4294344.11	7658	04-Nov-13	11042013-001.SSF	139804.8901	5566
722324.735	4294344.274	7555	04-Nov-13	11042013-001.SSF	139805.7842	5567
722325.205	4294344.349	7392	04-Nov-13	11042013-001.SSF	139806.8472	5568
722325.637	4294344.151	7113	04-Nov-13	11042013-001.SSF	139807.8042	5569
722325.906	4294343.91	8126	04-Nov-13	11042013-001.SSF	139808.8462	5570
722325.905	4294343.767	7728	04-Nov-13	11042013-001.SSF	139809.7769	5571
722325.803	4294343.657	7752	04-Nov-13	11042013-001.SSF	139810.8281	5572
722325.794	4294343.595	7788	04-Nov-13	11042013-001.SSF	139811.7588	5573
722325.867	4294343.808	7793	04-Nov-13	11042013-001.SSF	139812.8579	5574
722326.121	4294344.018	7923	04-Nov-13	11042013-001.SSF	139813.8008	5575
722326.684	4294343.894	8304	04-Nov-13	11042013-001.SSF	139814.897	5576
722327.439	4294343.32	8429	04-Nov-13	11042013-001.SSF	139815.8491	5577
722328.158	4294342.632	8971	04-Nov-13	11042013-001.SSF	139816.9321	5578
722328.476	4294342.209	8458	04-Nov-13	11042013-001.SSF	139817.8599	5579
722328.641	4294342.037	8073	04-Nov-13	11042013-001.SSF	139818.8892	5580
722328.817	4294341.888	8403	04-Nov-13	11042013-001.SSF	139819.8032	5581
722329.104	4294341.589	8657	04-Nov-13	11042013-001.SSF	139820.8799	5582
722329.537	4294341.334	8049	04-Nov-13	11042013-001.SSF	139821.8799	5583
722330.028	4294341.39	8345	04-Nov-13	11042013-001.SSF	139822.9048	5584
722330.346	4294341.285	8316	04-Nov-13	11042013-001.SSF	139823.8159	5585
722330.681	4294341.015	8803	04-Nov-13	11042013-001.SSF	139824.874	5586
722331.077	4294340.676	8934	04-Nov-13	11042013-001.SSF	139825.813	5587
722331.476	4294340.223	8760	04-Nov-13	11042013-001.SSF	139826.8901	5588
722331.638	4294339.911	9375	04-Nov-13	11042013-001.SSF	139827.792	5589
722331.584	4294339.621	9211	04-Nov-13	11042013-001.SSF	139828.8892	5590
722331.513	4294339.708	9051	04-Nov-13	11042013-001.SSF	139829.7861	5591
722331.38	4294339.699	9006	04-Nov-13	11042013-001.SSF	139830.8838	5592
722331.368	4294339.541	9371	04-Nov-13	11042013-001.SSF	139831.8179	5593
722331.356	4294339.317	9096	04-Nov-13	11042013-001.SSF	139832.9229	5594
722331.412	4294339.297	9316	04-Nov-13	11042013-001.SSF	139833.853	5595
722331.681	4294338.908	9440	04-Nov-13	11042013-001.SSF	139834.9219	5596
722331.795	4294338.576	9030	04-Nov-13	11042013-001.SSF	139835.8252	5597
722331.768	4294338.349	8934	04-Nov-13	11042013-001.SSF	139836.8828	5598
722331.775	4294338.303	9053	04-Nov-13	11042013-001.SSF	139837.834	5599
722331.765	4294338.302	9307	04-Nov-13	11042013-001.SSF	139838.874	5600
722331.712	4294338.308	9397	04-Nov-13	11042013-001.SSF	139839.8301	5601
722331.689	4294338.28	8743	04-Nov-13	11042013-001.SSF	139840.876	5602
722331.718	4294338.321	8526	04-Nov-13	11042013-001.SSF	139841.8481	5603
722331.785	4294338.333	8381	04-Nov-13	11042013-001.SSF	139842.9609	5604
722331.682	4294338.338	8996	04-Nov-13	11042013-001.SSF	139843.8491	5605
722331.705	4294338.464	8660	04-Nov-13	11042013-001.SSF	139844.8838	5606
722331.68	4294338.892	8824	04-Nov-13	11042013-001.SSF	139845.7671	5607

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722331.333	4294339.087	8803	04-Nov-13	11042013-001.SSF	139846.8311	5608
722331.053	4294338.728	9092	04-Nov-13	11042013-001.SSF	139847.7788	5609
722331.087	4294338.594	8639	04-Nov-13	11042013-001.SSF	139848.8862	5610
722331.22	4294338.727	8834	04-Nov-13	11042013-001.SSF	139849.8232	5611
722331.216	4294338.781	8689	04-Nov-13	11042013-001.SSF	139850.8848	5612
722331.294	4294338.678	9132	04-Nov-13	11042013-001.SSF	139851.7681	5613
722331.371	4294338.897	8624	04-Nov-13	11042013-001.SSF	139852.8989	5614
722331.296	4294338.976	8766	04-Nov-13	11042013-001.SSF	139853.8091	5615
722331.117	4294338.848	9041	04-Nov-13	11042013-001.SSF	139854.8198	5616
722331.451	4294338.625	9188	04-Nov-13	11042013-001.SSF	139855.7241	5617
722331.995	4294338.395	9173	04-Nov-13	11042013-001.SSF	139856.8418	5618
722332.081	4294338.181	9517	04-Nov-13	11042013-001.SSF	139857.7329	5619
722332.363	4294337.9	9553	04-Nov-13	11042013-001.SSF	139858.8149	5620
722332.477	4294337.976	9648	04-Nov-13	11042013-001.SSF	139859.7788	5621
722332.578	4294337.758	9177	04-Nov-13	11042013-001.SSF	139860.8691	5622
722332.46	4294337.578	9227	04-Nov-13	11042013-001.SSF	139861.7988	5623
722332.508	4294337.181	8872	04-Nov-13	11042013-001.SSF	139862.9429	5624
722332.487	4294336.733	8583	04-Nov-13	11042013-001.SSF	139863.7759	5625
722332.296	4294336.326	8300	04-Nov-13	11042013-001.SSF	139864.8428	5626
722332.249	4294336.389	8644	04-Nov-13	11042013-001.SSF	139865.8472	5627
722332.182	4294336.578	8672	04-Nov-13	11042013-001.SSF	139866.8359	5628
722332.435	4294336.583	8815	04-Nov-13	11042013-001.SSF	139867.7808	5629
722333.025	4294336.499	8453	04-Nov-13	11042013-001.SSF	139868.8301	5630
722333.294	4294336.31	8752	04-Nov-13	11042013-001.SSF	139869.771	5631
722333.665	4294335.989	9273	04-Nov-13	11042013-001.SSF	139870.8301	5632
722333.883	4294335.875	8666	04-Nov-13	11042013-001.SSF	139871.769	5633
722333.957	4294335.712	9210	04-Nov-13	11042013-001.SSF	139872.7832	5634
722333.977	4294335.321	9275	04-Nov-13	11042013-001.SSF	139873.7241	5635
722333.904	4294334.827	9889	04-Nov-13	11042013-001.SSF	139874.8291	5636
722334.019	4294334.45	9635	04-Nov-13	11042013-001.SSF	139875.7651	5637
722334.274	4294333.822	9567	04-Nov-13	11042013-001.SSF	139876.7998	5638
722334.373	4294333.328	9731	04-Nov-13	11042013-001.SSF	139877.707	5639
722334.522	4294333.181	10319	04-Nov-13	11042013-001.SSF	139878.832	5640
722334.595	4294333.29	10222	04-Nov-13	11042013-001.SSF	139879.77	5641
722334.642	4294333.346	10512	04-Nov-13	11042013-001.SSF	139880.835	5642
722334.573	4294333.34	10053	04-Nov-13	11042013-001.SSF	139881.8452	5643
722334.651	4294333.318	9795	04-Nov-13	11042013-001.SSF	139882.8589	5644
722334.76	4294333.421	9717	04-Nov-13	11042013-001.SSF	139883.7808	5645
722335.1	4294333.329	10033	04-Nov-13	11042013-001.SSF	139884.8311	5646
722335.378	4294332.873	9558	04-Nov-13	11042013-001.SSF	139885.8442	5647
722335.629	4294332.409	9299	04-Nov-13	11042013-001.SSF	139886.8462	5648
722335.949	4294332.171	9401	04-Nov-13	11042013-001.SSF	139887.8521	5649
722336.013	4294332.087	9570	04-Nov-13	11042013-001.SSF	139888.8799	5650
722336.051	4294332.142	9238	04-Nov-13	11042013-001.SSF	139889.7871	5651
722335.99	4294332.296	9239	04-Nov-13	11042013-001.SSF	139890.771	5652
722335.815	4294332.439	9344	04-Nov-13	11042013-001.SSF	139891.7852	5653
722336.06	4294332.35	9583	04-Nov-13	11042013-001.SSF	139892.7959	5654

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722336.511	4294331.936	9681	04-Nov-13	11042013-001.SSF	139893.7139	5655
722337.024	4294331.39	9818	04-Nov-13	11042013-001.SSF	139894.8281	5656
722337.284	4294331.202	9295	04-Nov-13	11042013-001.SSF	139895.7388	5657
722337.238	4294331.122	9503	04-Nov-13	11042013-001.SSF	139896.8311	5658
722337.29	4294331.029	10093	04-Nov-13	11042013-001.SSF	139897.75	5659
722337.384	4294330.959	9607	04-Nov-13	11042013-001.SSF	139898.79	5660
722337.54	4294331.013	9086	04-Nov-13	11042013-001.SSF	139899.7261	5661
722337.582	4294331.036	8973	04-Nov-13	11042013-001.SSF	139900.7681	5662
722337.508	4294331.087	8865	04-Nov-13	11042013-001.SSF	139901.7671	5663
722337.415	4294331.132	8594	04-Nov-13	11042013-001.SSF	139902.7739	5664
722337.335	4294331.155	8996	04-Nov-13	11042013-001.SSF	139903.686	5665
722337.208	4294331.218	8758	04-Nov-13	11042013-001.SSF	139904.8838	5666
722337.138	4294331.296	9531	04-Nov-13	11042013-001.SSF	139905.8218	5667
722337.119	4294331.367	9786	04-Nov-13	11042013-001.SSF	139906.8242	5668
722337.171	4294331.42	9780	04-Nov-13	11042013-001.SSF	139907.7441	5669
722337.225	4294331.533	9611	04-Nov-13	11042013-001.SSF	139908.9028	5670
722337.193	4294331.614	9388	04-Nov-13	11042013-001.SSF	139909.7578	5671
722337.162	4294331.729	9631	04-Nov-13	11042013-001.SSF	139910.8281	5672
722337.186	4294331.807	9550	04-Nov-13	11042013-001.SSF	139911.7622	5673
722337.162	4294331.889	9767	04-Nov-13	11042013-001.SSF	139912.8789	5674
722337.438	4294331.755	9311	04-Nov-13	11042013-001.SSF	139913.6982	5675
722337.925	4294331.529	9602	04-Nov-13	11042013-001.SSF	139914.895	5676
722337.796	4294331.343	9331	04-Nov-13	11042013-001.SSF	139915.6929	5677
722337.462	4294331.453	9381	04-Nov-13	11042013-001.SSF	139916.8242	5678
722337.256	4294331.878	9604	04-Nov-13	11042013-001.SSF	139917.75	5679
722336.969	4294332.151	9062	04-Nov-13	11042013-001.SSF	139918.8179	5680
722336.731	4294332.278	8877	04-Nov-13	11042013-001.SSF	139919.7378	5681
722336.203	4294332.407	8841	04-Nov-13	11042013-001.SSF	139920.8628	5682
722335.719	4294332.686	9023	04-Nov-13	11042013-001.SSF	139921.7871	5683
722335.087	4294332.659	8788	04-Nov-13	11042013-001.SSF	139922.9219	5684
722334.661	4294332.606	8685	04-Nov-13	11042013-001.SSF	139923.7622	5685
722334.36	4294332.157	9010	04-Nov-13	11042013-001.SSF	139924.9248	5686
722334.127	4294331.67	9028	04-Nov-13	11042013-001.SSF	139925.7832	5687
722333.971	4294331.345	9923	04-Nov-13	11042013-001.SSF	139926.9292	5688
722334.044	4294331.199	10209	04-Nov-13	11042013-001.SSF	139927.7822	5689
722333.932	4294330.924	10107	04-Nov-13	11042013-001.SSF	139928.9312	5690
722333.89	4294330.899	9975	04-Nov-13	11042013-001.SSF	139929.7681	5691
722334.317	4294331.13	9713	04-Nov-13	11042013-001.SSF	139930.7798	5692
722334.806	4294331.475	9866	04-Nov-13	11042013-001.SSF	139931.7368	5693
722335.091	4294331.523	8947	04-Nov-13	11042013-001.SSF	139932.7832	5694
722334.86	4294331.286	9375	04-Nov-13	11042013-001.SSF	139933.7852	5695
722334.517	4294331.341	9541	04-Nov-13	11042013-001.SSF	139934.8052	5696
722334.143	4294331.249	9694	04-Nov-13	11042013-001.SSF	139935.7402	5697
722333.706	4294330.924	9548	04-Nov-13	11042013-001.SSF	139936.835	5698
722333.533	4294330.615	9255	04-Nov-13	11042013-001.SSF	139937.771	5699
722333.53	4294330.488	8776	04-Nov-13	11042013-001.SSF	139938.8311	5700
722333.543	4294330.634	8986	04-Nov-13	11042013-001.SSF	139939.7729	5701

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722333.438	4294330.751	9202	04-Nov-13	11042013-001.SSF	139940.8652	5702
722333.318	4294330.766	8941	04-Nov-13	11042013-001.SSF	139941.8008	5703
722333.599	4294330.844	8817	04-Nov-13	11042013-001.SSF	139942.8359	5704
722333.932	4294331.007	8672	04-Nov-13	11042013-001.SSF	139943.7432	5705
722334.173	4294331.176	9235	04-Nov-13	11042013-001.SSF	139944.8481	5706
722334.185	4294331.415	9582	04-Nov-13	11042013-001.SSF	139945.7471	5707
722333.851	4294331.972	10310	04-Nov-13	11042013-001.SSF	139946.8462	5708
722333.603	4294332.456	9234	04-Nov-13	11042013-001.SSF	139947.7451	5709
722333.576	4294332.707	9079	04-Nov-13	11042013-001.SSF	139948.7832	5710
722333.551	4294332.551	9524	04-Nov-13	11042013-001.SSF	139949.7461	5711
722333.585	4294332.379	9640	04-Nov-13	11042013-001.SSF	139950.8032	5712
722333.624	4294332.249	9607	04-Nov-13	11042013-001.SSF	139951.71	5713
722333.727	4294332.171	9761	04-Nov-13	11042013-001.SSF	139952.8408	5714
722333.808	4294332.238	9376	04-Nov-13	11042013-001.SSF	139953.7622	5715
722333.846	4294332.413	9826	04-Nov-13	11042013-001.SSF	139954.7651	5716
722333.698	4294332.626	9232	04-Nov-13	11042013-001.SSF	139955.814	5717
722333.714	4294332.834	8695	04-Nov-13	11042013-001.SSF	139956.9282	5718
722333.518	4294333.209	8956	04-Nov-13	11042013-001.SSF	139957.7959	5719
722333.339	4294333.273	8878	04-Nov-13	11042013-001.SSF	139958.895	5720
722333.255	4294333.235	9043	04-Nov-13	11042013-001.SSF	139959.7988	5721
722333.322	4294332.983	8739	04-Nov-13	11042013-001.SSF	139960.751	5722
722333.7	4294332.664	8148	04-Nov-13	11042013-001.SSF	139961.749	5723
722334.073	4294332.518	9113	04-Nov-13	11042013-001.SSF	139962.7549	5724
722334.347	4294332.591	8463	04-Nov-13	11042013-001.SSF	139963.6602	5725
722335.106	4294333.044	8698	04-Nov-13	11042013-001.SSF	139964.7681	5726
722335.706	4294333.579	8803	04-Nov-13	11042013-001.SSF	139965.7319	5727
722336.188	4294334.144	8577	04-Nov-13	11042013-001.SSF	139966.813	5728
722336.193	4294334.526	8762	04-Nov-13	11042013-001.SSF	139967.7578	5729
722336.006	4294334.722	8979	04-Nov-13	11042013-001.SSF	139968.876	5730
722335.941	4294334.472	8643	04-Nov-13	11042013-001.SSF	139969.7939	5731
722335.924	4294334.131	8754	04-Nov-13	11042013-001.SSF	139970.8232	5732
722335.965	4294334.143	9304	04-Nov-13	11042013-001.SSF	139971.7261	5733
722336.007	4294333.965	9186	04-Nov-13	11042013-001.SSF	139972.8652	5734
722335.979	4294333.483	9059	04-Nov-13	11042013-001.SSF	139973.7651	5735
722336.129	4294333.405	9071	04-Nov-13	11042013-001.SSF	139974.855	5736
722336.084	4294333.577	8777	04-Nov-13	11042013-001.SSF	139975.729	5737
722335.837	4294333.423	8972	04-Nov-13	11042013-001.SSF	139976.8052	5738
722335.672	4294333.169	9134	04-Nov-13	11042013-001.SSF	139977.749	5739
722335.645	4294333.222	8955	04-Nov-13	11042013-001.SSF	139978.7808	5740
722335.714	4294333.339	8660	04-Nov-13	11042013-001.SSF	139979.7168	5741
722335.703	4294333.386	8988	04-Nov-13	11042013-001.SSF	139980.8501	5742
722335.604	4294333.381	8866	04-Nov-13	11042013-001.SSF	139981.812	5743
722335.231	4294333.716	9322	04-Nov-13	11042013-001.SSF	139982.812	5744
722334.636	4294334.192	8986	04-Nov-13	11042013-001.SSF	139983.7358	5745
722334.165	4294334.787	8977	04-Nov-13	11042013-001.SSF	139984.8862	5746
722334.135	4294335.093	8837	04-Nov-13	11042013-001.SSF	139985.7451	5747
722333.964	4294335.403	8676	04-Nov-13	11042013-001.SSF	139986.7881	5748

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722333.726	4294335.583	8435	04-Nov-13	11042013-001.SSF	139987.7178	5749
722333.66	4294335.561	9799	04-Nov-13	11042013-001.SSF	139988.8198	5750
722333.821	4294335.52	9360	04-Nov-13	11042013-001.SSF	139989.7222	5751
722333.824	4294335.513	8962	04-Nov-13	11042013-001.SSF	139990.8291	5752
722333.677	4294335.692	8528	04-Nov-13	11042013-001.SSF	139991.7622	5753
722333.766	4294335.734	9035	04-Nov-13	11042013-001.SSF	139992.7739	5754
722333.875	4294335.508	8922	04-Nov-13	11042013-001.SSF	139993.7192	5755
722333.847	4294335.762	9578	04-Nov-13	11042013-001.SSF	139994.8379	5756
722333.795	4294335.967	9250	04-Nov-13	11042013-001.SSF	139995.7349	5757
722333.903	4294336.026	9231	04-Nov-13	11042013-001.SSF	139996.8862	5758
722334.106	4294336.15	9347	04-Nov-13	11042013-001.SSF	139997.7051	5759
722334.218	4294336.522	9855	04-Nov-13	11042013-001.SSF	139998.8301	5760
722334.133	4294336.651	8858	04-Nov-13	11042013-001.SSF	139999.7432	5761
722334.057	4294336.669	9205	04-Nov-13	11042013-001.SSF	140000.7388	5762
722334	4294336.619	9445	04-Nov-13	11042013-001.SSF	140001.7339	5763
722334.034	4294336.566	9280	04-Nov-13	11042013-001.SSF	140002.8911	5764
722334.245	4294336.479	9292	04-Nov-13	11042013-001.SSF	140003.668	5765
722334.514	4294336.461	8962	04-Nov-13	11042013-001.SSF	140004.7808	5766
722334.579	4294336.488	9098	04-Nov-13	11042013-001.SSF	140005.6729	5767
722334.573	4294336.488	9333	04-Nov-13	11042013-001.SSF	140006.7881	5768
722334.336	4294336.37	8692	04-Nov-13	11042013-001.SSF	140007.709	5769
722333.872	4294335.864	8654	04-Nov-13	11042013-001.SSF	140008.812	5770
722333.602	4294335.477	9053	04-Nov-13	11042013-001.SSF	140009.7261	5771
722333.171	4294335.404	8752	04-Nov-13	11042013-001.SSF	140010.8262	5772
722332.766	4294335.801	8523	04-Nov-13	11042013-001.SSF	140011.6631	5773
722332.174	4294336.571	8049	04-Nov-13	11042013-001.SSF	140012.813	5774
722331.664	4294337.479	8592	04-Nov-13	11042013-001.SSF	140013.6782	5775
722331.401	4294338.559	8628	04-Nov-13	11042013-001.SSF	140014.8359	5776
722331.509	4294339.453	8963	04-Nov-13	11042013-001.SSF	140015.7422	5777
722331.68	4294339.906	8409	04-Nov-13	11042013-001.SSF	140016.8301	5778
722331.553	4294340.03	8960	04-Nov-13	11042013-001.SSF	140017.665	5779
722331.373	4294340.38	8670	04-Nov-13	11042013-001.SSF	140018.7651	5780
722331.381	4294340.903	8229	04-Nov-13	11042013-001.SSF	140019.707	5781
722331.393	4294341.373	8829	04-Nov-13	11042013-001.SSF	140020.8472	5782
722331.341	4294341.411	8633	04-Nov-13	11042013-001.SSF	140021.7661	5783
722331.263	4294341.288	8494	04-Nov-13	11042013-001.SSF	140022.7739	5784
722331.091	4294341.161	8355	04-Nov-13	11042013-001.SSF	140023.7778	5785
722330.967	4294341.194	9042	04-Nov-13	11042013-001.SSF	140024.8701	5786
722331.124	4294341.184	9653	04-Nov-13	11042013-001.SSF	140025.7388	5787
722331.272	4294340.86	9405	04-Nov-13	11042013-001.SSF	140026.7549	5788
722331.34	4294340.378	9040	04-Nov-13	11042013-001.SSF	140027.6558	5789
722331.579	4294339.527	9397	04-Nov-13	11042013-001.SSF	140028.7998	5790
722331.589	4294338.914	8721	04-Nov-13	11042013-001.SSF	140029.728	5791
722331.481	4294338.643	9008	04-Nov-13	11042013-001.SSF	140030.7671	5792
722331.521	4294338.615	8704	04-Nov-13	11042013-001.SSF	140031.6489	5793
722331.671	4294338.545	8781	04-Nov-13	11042013-001.SSF	140032.7959	5794
722331.883	4294338.263	9162	04-Nov-13	11042013-001.SSF	140033.728	5795

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722332.171	4294337.61	9173	04-Nov-13	11042013-001.SSF	140034.7832	5796
722332.307	4294337.133	8632	04-Nov-13	11042013-001.SSF	140035.6831	5797
722332.44	4294336.991	8658	04-Nov-13	11042013-001.SSF	140036.7808	5798
722332.707	4294336.851	8785	04-Nov-13	11042013-001.SSF	140037.7329	5799
722333.306	4294336.692	9246	04-Nov-13	11042013-001.SSF	140038.7632	5800
722334.035	4294336.145	9356	04-Nov-13	11042013-001.SSF	140039.708	5801
722334.492	4294335.443	9013	04-Nov-13	11042013-001.SSF	140040.8198	5802
722334.929	4294334.941	8834	04-Nov-13	11042013-001.SSF	140041.731	5803
722335.241	4294334.678	8862	04-Nov-13	11042013-001.SSF	140042.792	5804
722335.24	4294334.493	8734	04-Nov-13	11042013-001.SSF	140043.7119	5805
722335.437	4294334.307	9083	04-Nov-13	11042013-001.SSF	140044.8101	5806
722335.778	4294334.131	8904	04-Nov-13	11042013-001.SSF	140045.7939	5807
722336.193	4294333.907	8601	04-Nov-13	11042013-001.SSF	140046.8271	5808
722336.342	4294333.683	8723	04-Nov-13	11042013-001.SSF	140047.7861	5809
722336.527	4294333.551	9114	04-Nov-13	11042013-001.SSF	140048.8018	5810
722336.586	4294333.13	8824	04-Nov-13	11042013-001.SSF	140049.7759	5811
722336.958	4294332.251	8953	04-Nov-13	11042013-001.SSF	140050.7441	5812
722337.253	4294331.511	8523	04-Nov-13	11042013-001.SSF	140051.7139	5813
722337.043	4294331.273	8222	04-Nov-13	11042013-001.SSF	140052.7461	5814
722336.878	4294331.384	9057	04-Nov-13	11042013-001.SSF	140053.7358	5815
722337.021	4294331.536	9579	04-Nov-13	11042013-001.SSF	140054.7339	5816
722337.221	4294331.567	10143	04-Nov-13	11042013-001.SSF	140055.665	5817
722337.364	4294331.534	10280	04-Nov-13	11042013-001.SSF	140056.7129	5818
722337.422	4294331.458	10245	04-Nov-13	11042013-001.SSF	140057.6372	5819
722337.468	4294331.359	9895	04-Nov-13	11042013-001.SSF	140058.7808	5820
722337.505	4294331.32	9736	04-Nov-13	11042013-001.SSF	140059.7192	5821
722337.473	4294331.253	9024	04-Nov-13	11042013-001.SSF	140060.7588	5822
722337.421	4294331.168	8988	04-Nov-13	11042013-001.SSF	140061.6611	5823
722337.405	4294331.143	9688	04-Nov-13	11042013-001.SSF	140062.7632	5824
722337.411	4294331.199	9709	04-Nov-13	11042013-001.SSF	140063.667	5825
722337.441	4294331.282	9219	04-Nov-13	11042013-001.SSF	140064.77	5826
722337.482	4294331.343	9033	04-Nov-13	11042013-001.SSF	140065.752	5827
722337.572	4294331.368	9416	04-Nov-13	11042013-001.SSF	140066.8662	5828
722337.481	4294331.485	9564	04-Nov-13	11042013-001.SSF	140067.7852	5829
722337.427	4294331.462	9452	04-Nov-13	11042013-001.SSF	140068.8379	5830
722337.431	4294331.415	9554	04-Nov-13	11042013-001.SSF	140069.77	5831
722337.348	4294331.105	8591	04-Nov-13	11042013-001.SSF	140070.7949	5832
722337.301	4294330.724	8815	04-Nov-13	11042013-001.SSF	140071.7251	5833
722337.347	4294330.683	8948	04-Nov-13	11042013-001.SSF	140072.7959	5834
722337.404	4294330.731	9391	04-Nov-13	11042013-001.SSF	140073.7168	5835
722337.538	4294330.812	9475	04-Nov-13	11042013-001.SSF	140074.7329	5836
722337.607	4294330.873	9829	04-Nov-13	11042013-001.SSF	140075.7349	5837
722337.459	4294330.678	9744	04-Nov-13	11042013-001.SSF	140076.728	5838
722337.321	4294330.414	9711	04-Nov-13	11042013-001.SSF	140077.6782	5839
722337.219	4294330.175	9617	04-Nov-13	11042013-001.SSF	140078.7808	5840
722337.248	4294330.112	10097	04-Nov-13	11042013-001.SSF	140079.7051	5841
722337.261	4294330.162	9962	04-Nov-13	11042013-001.SSF	140080.8242	5842

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722337.058	4294330.032	9578	04-Nov-13	11042013-001.SSF	140081.6929	5843
722336.776	4294329.963	9888	04-Nov-13	11042013-001.SSF	140082.8262	5844
722336.664	4294329.955	10714	04-Nov-13	11042013-001.SSF	140083.7598	5845
722336.629	4294329.927	10421	04-Nov-13	11042013-001.SSF	140084.7969	5846
722336.635	4294329.919	10189	04-Nov-13	11042013-001.SSF	140085.7588	5847
722336.603	4294329.962	10051	04-Nov-13	11042013-001.SSF	140086.8618	5848
722336.592	4294330.037	9899	04-Nov-13	11042013-001.SSF	140087.6992	5849
722336.385	4294329.616	10158	04-Nov-13	11042013-001.SSF	140088.8281	5850
722336.105	4294329.09	9741	04-Nov-13	11042013-001.SSF	140089.7881	5851
722335.723	4294328.618	9912	04-Nov-13	11042013-001.SSF	140090.7388	5852
722335.501	4294328.423	9663	04-Nov-13	11042013-001.SSF	140091.646	5853
722335.475	4294328.584	9530	04-Nov-13	11042013-001.SSF	140092.771	5854
722335.488	4294328.631	9485	04-Nov-13	11042013-001.SSF	140093.7158	5855
722335.532	4294328.689	9498	04-Nov-13	11042013-001.SSF	140094.811	5856
722335.592	4294328.738	8568	04-Nov-13	11042013-001.SSF	140095.6919	5857
722335.689	4294328.808	8456	04-Nov-13	11042013-001.SSF	140096.8218	5858
722335.762	4294328.858	8477	04-Nov-13	11042013-001.SSF	140097.6899	5859
722335.8	4294328.895	8781	04-Nov-13	11042013-001.SSF	140098.7871	5860
722335.818	4294328.955	9019	04-Nov-13	11042013-001.SSF	140099.6982	5861
722335.782	4294329.036	9318	04-Nov-13	11042013-001.SSF	140100.8301	5862
722335.218	4294329.094	9314	04-Nov-13	11042013-001.SSF	140101.769	5863
722334.573	4294329.117	8741	04-Nov-13	11042013-001.SSF	140102.8042	5864
722334.395	4294329.26	8926	04-Nov-13	11042013-001.SSF	140103.7588	5865
722334.248	4294329.458	8669	04-Nov-13	11042013-001.SSF	140104.8579	5866
722334.138	4294329.859	8678	04-Nov-13	11042013-001.SSF	140105.71	5867
722333.969	4294330.315	8864	04-Nov-13	11042013-001.SSF	140106.751	5868
722333.95	4294330.158	9073	04-Nov-13	11042013-001.SSF	140107.7231	5869
722333.879	4294329.879	9453	04-Nov-13	11042013-001.SSF	140108.7251	5870
722333.594	4294329.586	8872	04-Nov-13	11042013-001.SSF	140109.6411	5871
722333.247	4294329.06	8846	04-Nov-13	11042013-001.SSF	140110.7358	5872
722333.403	4294328.61	8936	04-Nov-13	11042013-001.SSF	140111.6392	5873
722333.672	4294328.128	8206	04-Nov-13	11042013-001.SSF	140112.7471	5874
722333.637	4294327.935	9026	04-Nov-13	11042013-001.SSF	140113.6279	5875
722333.579	4294328.015	9404	04-Nov-13	11042013-001.SSF	140114.73	5876
722333.479	4294327.863	8912	04-Nov-13	11042013-001.SSF	140115.688	5877
722333.544	4294327.702	8823	04-Nov-13	11042013-001.SSF	140116.7778	5878
722333.764	4294327.772	9013	04-Nov-13	11042013-001.SSF	140117.7891	5879
722333.913	4294327.837	9487	04-Nov-13	11042013-001.SSF	140118.7949	5880
722334.316	4294327.704	8966	04-Nov-13	11042013-001.SSF	140119.7178	5881
722334.959	4294327.24	8591	04-Nov-13	11042013-001.SSF	140120.8418	5882
722335.157	4294326.748	8605	04-Nov-13	11042013-001.SSF	140121.7549	5883
722335.445	4294326.375	9325	04-Nov-13	11042013-001.SSF	140122.7749	5884
722336.151	4294325.917	8973	04-Nov-13	11042013-001.SSF	140123.7339	5885
722336.404	4294325.477	8805	04-Nov-13	11042013-001.SSF	140124.7642	5886
722336.31	4294325.221	9700	04-Nov-13	11042013-001.SSF	140125.6782	5887
722336.274	4294325.179	9686	04-Nov-13	11042013-001.SSF	140126.7222	5888
722336.267	4294325.212	9191	04-Nov-13	11042013-001.SSF	140127.644	5889

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722336.335	4294325.224	8890	04-Nov-13	11042013-001.SSF	140128.729	5890
722336.322	4294325.121	8623	04-Nov-13	11042013-001.SSF	140129.6499	5891
722336.137	4294324.816	8953	04-Nov-13	11042013-001.SSF	140130.7588	5892
722336.102	4294324.563	9191	04-Nov-13	11042013-001.SSF	140131.7051	5893
722336.141	4294324.463	9100	04-Nov-13	11042013-001.SSF	140132.7549	5894
722335.995	4294324.426	9573	04-Nov-13	11042013-001.SSF	140133.6558	5895
722335.708	4294324.331	9202	04-Nov-13	11042013-001.SSF	140134.77	5896
722335.599	4294324.276	8491	04-Nov-13	11042013-001.SSF	140135.7202	5897
722335.516	4294324.203	7829	04-Nov-13	11042013-001.SSF	140136.7778	5898
722335.615	4294324.061	7823	04-Nov-13	11042013-001.SSF	140137.7148	5899
722336.08	4294323.64	8001	04-Nov-13	11042013-001.SSF	140138.8389	5900
722336.257	4294323.194	8153	04-Nov-13	11042013-001.SSF	140139.7471	5901
722336.453	4294322.664	7931	04-Nov-13	11042013-001.SSF	140140.7358	5902
722336.438	4294322.254	7978	04-Nov-13	11042013-001.SSF	140141.6582	5903
722336.349	4294321.897	7893	04-Nov-13	11042013-001.SSF	140142.7588	5904
722336.125	4294321.715	7950	04-Nov-13	11042013-001.SSF	140143.6948	5905
722335.866	4294321.694	7689	04-Nov-13	11042013-001.SSF	140144.7271	5906
722335.769	4294321.783	7790	04-Nov-13	11042013-001.SSF	140145.7261	5907
722335.802	4294321.725	7794	04-Nov-13	11042013-001.SSF	140146.708	5908
722335.696	4294321.377	8006	04-Nov-13	11042013-001.SSF	140147.7041	5909
722335.501	4294321.147	7952	04-Nov-13	11042013-001.SSF	140148.7061	5910
722335.515	4294321.033	8066	04-Nov-13	11042013-001.SSF	140149.707	5911
722335.725	4294320.896	7882	04-Nov-13	11042013-001.SSF	140150.8188	5912
722335.81	4294320.839	7561	04-Nov-13	11042013-001.SSF	140151.7061	5913
722335.817	4294320.74	7530	04-Nov-13	11042013-001.SSF	140152.8071	5914
722335.813	4294320.763	8098	04-Nov-13	11042013-001.SSF	140153.707	5915
722335.806	4294320.822	7420	04-Nov-13	11042013-001.SSF	140154.73	5916
722335.716	4294320.904	7301	04-Nov-13	11042013-001.SSF	140155.729	5917
722335.87	4294321.134	7804	04-Nov-13	11042013-001.SSF	140156.7451	5918
722336.166	4294321.587	8035	04-Nov-13	11042013-001.SSF	140157.6382	5919
722336.637	4294321.794	7864	04-Nov-13	11042013-001.SSF	140158.8081	5920
722337.156	4294321.706	8406	04-Nov-13	11042013-001.SSF	140159.7129	5921
722337.594	4294321.5	8163	04-Nov-13	11042013-001.SSF	140160.748	5922
722337.622	4294321.354	7937	04-Nov-13	11042013-001.SSF	140161.7568	5923
722337.394	4294321.29	7442	04-Nov-13	11042013-001.SSF	140162.8428	5924
722337.177	4294321.33	7576	04-Nov-13	11042013-001.SSF	140163.686	5925
722337.182	4294321.473	7966	04-Nov-13	11042013-001.SSF	140164.7651	5926
722337.351	4294321.602	7848	04-Nov-13	11042013-001.SSF	140165.667	5927
722337.416	4294321.654	7774	04-Nov-13	11042013-001.SSF	140166.7671	5928
722337.394	4294321.651	7751	04-Nov-13	11042013-001.SSF	140167.687	5929
722337.341	4294321.772	8199	04-Nov-13	11042013-001.SSF	140168.769	5930
722337.373	4294321.974	7844	04-Nov-13	11042013-001.SSF	140169.6841	5931
722337.455	4294322.224	7660	04-Nov-13	11042013-001.SSF	140170.73	5932
722337.555	4294322.342	7256	04-Nov-13	11042013-001.SSF	140171.644	5933
722337.617	4294322.203	7479	04-Nov-13	11042013-001.SSF	140172.729	5934
722337.669	4294322.022	7777	04-Nov-13	11042013-001.SSF	140173.7388	5935
722337.492	4294321.966	7749	04-Nov-13	11042013-001.SSF	140174.7441	5936

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722337.111	4294321.969	7734	04-Nov-13	11042013-001.SSF	140175.7021	5937
722336.703	4294321.908	8332	04-Nov-13	11042013-001.SSF	140176.7261	5938
722336.631	4294321.822	8654	04-Nov-13	11042013-001.SSF	140177.6719	5939
722337.141	4294322.11	8550	04-Nov-13	11042013-001.SSF	140178.813	5940
722337.76	4294322.45	8252	04-Nov-13	11042013-001.SSF	140179.7231	5941
722338.087	4294322.821	8152	04-Nov-13	11042013-001.SSF	140180.6831	5942
722337.972	4294323.32	8673	04-Nov-13	11042013-001.SSF	140181.6738	5943
722337.615	4294324.019	8756	04-Nov-13	11042013-001.SSF	140182.6729	5944
722337.317	4294324.678	9207	04-Nov-13	11042013-001.SSF	140183.6152	5945
722336.729	4294325.3	9161	04-Nov-13	11042013-001.SSF	140184.7568	5946
722336.038	4294325.886	8986	04-Nov-13	11042013-001.SSF	140185.6812	5947
722335.466	4294326.804	9029	04-Nov-13	11042013-001.SSF	140186.7568	5948
722335.165	4294327.525	9031	04-Nov-13	11042013-001.SSF	140187.6992	5949
722335.125	4294328.257	9565	04-Nov-13	11042013-001.SSF	140188.7759	5950
722335.281	4294328.777	9093	04-Nov-13	11042013-001.SSF	140189.6709	5951
722335.321	4294329.199	9339	04-Nov-13	11042013-001.SSF	140190.8408	5952
722335.26	4294329.531	9183	04-Nov-13	11042013-001.SSF	140191.667	5953
722334.909	4294330.143	9463	04-Nov-13	11042013-001.SSF	140192.7852	5954
722334.542	4294330.497	9208	04-Nov-13	11042013-001.SSF	140193.6821	5955
722334.486	4294331.007	8899	04-Nov-13	11042013-001.SSF	140194.7759	5956
722334.404	4294331.532	9303	04-Nov-13	11042013-001.SSF	140195.6919	5957
722334.356	4294331.92	9815	04-Nov-13	11042013-001.SSF	140196.7349	5958
722334.493	4294332.12	9818	04-Nov-13	11042013-001.SSF	140197.752	5959
722334.586	4294332.195	9543	04-Nov-13	11042013-001.SSF	140198.7549	5960
722334.56	4294332.205	9748	04-Nov-13	11042013-001.SSF	140199.7539	5961
722334.548	4294332.225	9675	04-Nov-13	11042013-001.SSF	140200.769	5962
722334.527	4294332.203	9582	04-Nov-13	11042013-001.SSF	140201.6821	5963
722334.51	4294332.167	10452	04-Nov-13	11042013-001.SSF	140202.793	5964
722334.478	4294332.137	10282	04-Nov-13	11042013-001.SSF	140203.687	5965
722334.447	4294332.101	10163	04-Nov-13	11042013-001.SSF	140204.7852	5966
722334.451	4294332.079	10059	04-Nov-13	11042013-001.SSF	140205.6392	5967
722334.452	4294332.049	10443	04-Nov-13	11042013-001.SSF	140206.7349	5968
722334.45	4294332.036	10479	04-Nov-13	11042013-001.SSF	140207.6528	5969
722334.46	4294332.021	10237	04-Nov-13	11042013-001.SSF	140208.6421	5970
722334.481	4294332.001	10041	04-Nov-13	11042013-001.SSF	140209.6538	5971
722334.465	4294331.989	9525	04-Nov-13	11042013-001.SSF	140210.73	5972
722334.436	4294332.008	9993	04-Nov-13	11042013-001.SSF	140211.6392	5973
722334.369	4294331.955	9858	04-Nov-13	11042013-001.SSF	140212.7471	5974
722334.327	4294331.894	9033	04-Nov-13	11042013-001.SSF	140213.729	5975
722334.289	4294331.883	9003	04-Nov-13	11042013-001.SSF	140214.7549	5976
722334.277	4294331.927	9557	04-Nov-13	11042013-001.SSF	140215.6709	5977
722334.244	4294332.003	9748	04-Nov-13	11042013-001.SSF	140216.7158	5978
722334.341	4294332.245	9818	04-Nov-13	11042013-001.SSF	140217.626	5979
722334.529	4294332.318	9588	04-Nov-13	11042013-001.SSF	140218.6792	5980
722334.65	4294331.889	9510	04-Nov-13	11042013-001.SSF	140219.606	5981
722334.555	4294330.972	9827	04-Nov-13	11042013-001.SSF	140220.7002	5982
722334.333	4294330.385	9412	04-Nov-13	11042013-001.SSF	140221.6401	5983

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722333.988	4294329.818	8414	04-Nov-13	11042013-001.SSF	140222.7402	5984
722333.536	4294329.407	8753	04-Nov-13	11042013-001.SSF	140223.6392	5985
722333.081	4294329.156	8343	04-Nov-13	11042013-001.SSF	140224.7402	5986
722332.935	4294329.099	7640	04-Nov-13	11042013-001.SSF	140225.6729	5987
722332.873	4294329.151	8160	04-Nov-13	11042013-001.SSF	140226.6748	5988
722332.904	4294329.179	8587	04-Nov-13	11042013-001.SSF	140227.6172	5989
722332.815	4294329.017	8595	04-Nov-13	11042013-001.SSF	140228.7529	5990
722332.755	4294328.854	8847	04-Nov-13	11042013-001.SSF	140229.6509	5991
722332.794	4294328.784	9491	04-Nov-13	11042013-001.SSF	140230.6509	5992
722333.01	4294328.607	9194	04-Nov-13	11042013-001.SSF	140231.6348	5993
722333.443	4294328.316	9424	04-Nov-13	11042013-001.SSF	140232.6479	5994
722333.863	4294327.845	9411	04-Nov-13	11042013-001.SSF	140233.6338	5995
722334.441	4294327.257	9058	04-Nov-13	11042013-001.SSF	140234.6528	5996
722335.432	4294326.72	9430	04-Nov-13	11042013-001.SSF	140235.6992	5997
722336.169	4294326.04	8657	04-Nov-13	11042013-001.SSF	140236.7412	5998
722336.662	4294325.303	9219	04-Nov-13	11042013-001.SSF	140237.7012	5999
722336.943	4294324.906	9356	04-Nov-13	11042013-001.SSF	140238.7412	6000
722337.004	4294324.868	9410	04-Nov-13	11042013-001.SSF	140239.647	6001
722337.042	4294324.914	9343	04-Nov-13	11042013-001.SSF	140240.7832	6002
722336.987	4294324.966	9845	04-Nov-13	11042013-001.SSF	140241.6118	6003
722336.895	4294325.062	9723	04-Nov-13	11042013-001.SSF	140242.7871	6004
722336.845	4294325.184	9684	04-Nov-13	11042013-001.SSF	140243.6089	6005
722336.972	4294325.256	9235	04-Nov-13	11042013-001.SSF	140244.7441	6006
722337.133	4294325.096	9567	04-Nov-13	11042013-001.SSF	140245.6558	6007
722337.413	4294324.846	9214	04-Nov-13	11042013-001.SSF	140246.6572	6008
722337.71	4294324.542	9480	04-Nov-13	11042013-001.SSF	140247.603	6009
722337.766	4294324.345	9225	04-Nov-13	11042013-001.SSF	140248.6611	6010
722337.639	4294324.274	9366	04-Nov-13	11042013-001.SSF	140249.582	6011
722337.677	4294324.314	9468	04-Nov-13	11042013-001.SSF	140250.75	6012
722337.838	4294324.345	9323	04-Nov-13	11042013-001.SSF	140251.6582	6013
722338.27	4294324.28	9062	04-Nov-13	11042013-001.SSF	140252.7231	6014
722338.905	4294323.857	9020	04-Nov-13	11042013-001.SSF	140253.624	6015
722339.827	4294322.928	9026	04-Nov-13	11042013-001.SSF	140254.7432	6016
722340.343	4294322.212	9007	04-Nov-13	11042013-001.SSF	140255.6001	6017
722340.556	4294321.832	9236	04-Nov-13	11042013-001.SSF	140256.7749	6018
722340.722	4294322.113	9073	04-Nov-13	11042013-001.SSF	140257.6152	6019
722341.253	4294322.737	9026	04-Nov-13	11042013-001.SSF	140258.7051	6020
722341.567	4294323.098	9134	04-Nov-13	11042013-001.SSF	140259.606	6021
722341.838	4294323.055	9308	04-Nov-13	11042013-001.SSF	140260.7119	6022
722342.054	4294322.822	9488	04-Nov-13	11042013-001.SSF	140261.7012	6023
722342.064	4294322.655	9777	04-Nov-13	11042013-001.SSF	140262.7739	6024
722342.025	4294322.671	9902	04-Nov-13	11042013-001.SSF	140263.6118	6025
722341.978	4294322.733	10587	04-Nov-13	11042013-001.SSF	140264.7759	6026
722341.927	4294322.785	10640	04-Nov-13	11042013-001.SSF	140265.6392	6027
722341.88	4294322.854	9654	04-Nov-13	11042013-001.SSF	140266.7119	6028
722341.831	4294322.87	10545	04-Nov-13	11042013-001.SSF	140267.562	6029
722341.842	4294322.822	10672	04-Nov-13	11042013-001.SSF	140268.7368	6030

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722341.898	4294322.816	10893	04-Nov-13	11042013-001.SSF	140269.6069	6031
722341.919	4294322.793	10612	04-Nov-13	11042013-001.SSF	140270.6851	6032
722342.012	4294322.666	10627	04-Nov-13	11042013-001.SSF	140271.6382	6033
722342.151	4294322.259	10477	04-Nov-13	11042013-001.SSF	140272.748	6034
722342.411	4294321.996	10071	04-Nov-13	11042013-001.SSF	140273.6699	6035
722342.641	4294321.998	9625	04-Nov-13	11042013-001.SSF	140274.7158	6036
722342.604	4294322.016	9659	04-Nov-13	11042013-001.SSF	140275.6558	6037
722342.361	4294321.838	9513	04-Nov-13	11042013-001.SSF	140276.6768	6038
722342.273	4294321.53	9101	04-Nov-13	11042013-001.SSF	140277.6162	6039
722342.346	4294321.266	9769	04-Nov-13	11042013-001.SSF	140278.6621	6040
722342.406	4294321.222	10572	04-Nov-13	11042013-001.SSF	140279.5879	6041
722342.437	4294321.257	10904	04-Nov-13	11042013-001.SSF	140280.7319	6042
722342.446	4294321.289	10131	04-Nov-13	11042013-001.SSF	140281.644	6043
722342.443	4294321.327	10289	04-Nov-13	11042013-001.SSF	140282.7529	6044
722342.451	4294321.341	10017	04-Nov-13	11042013-001.SSF	140283.6499	6045
722342.484	4294321.354	10644	04-Nov-13	11042013-001.SSF	140284.7261	6046
722342.195	4294321.204	10225	04-Nov-13	11042013-001.SSF	140285.6479	6047
722341.568	4294320.848	11031	04-Nov-13	11042013-001.SSF	140286.6851	6048
722341.132	4294320.622	11140	04-Nov-13	11042013-001.SSF	140287.687	6049
722340.934	4294320.46	10773	04-Nov-13	11042013-001.SSF	140288.7529	6050
722340.843	4294320.374	11985	04-Nov-13	11042013-001.SSF	140289.645	6051
722341.025	4294320.387	12149	04-Nov-13	11042013-001.SSF	140290.7202	6052
722341.262	4294320.386	12234	04-Nov-13	11042013-001.SSF	140291.6309	6053
722341.371	4294320.251	11936	04-Nov-13	11042013-001.SSF	140292.7632	6054
722341.394	4294320.162	11026	04-Nov-13	11042013-001.SSF	140293.6729	6055
722341.459	4294320.15	10897	04-Nov-13	11042013-001.SSF	140294.7578	6056
722341.498	4294320.175	10187	04-Nov-13	11042013-001.SSF	140295.6489	6057
722341.535	4294320.293	10507	04-Nov-13	11042013-001.SSF	140296.7051	6058
722341.633	4294320.305	11048	04-Nov-13	11042013-001.SSF	140297.6211	6059
722341.692	4294320.258	11307	04-Nov-13	11042013-001.SSF	140298.71	6060
722341.689	4294320.314	10552	04-Nov-13	11042013-001.SSF	140299.6401	6061
722341.702	4294320.385	10683	04-Nov-13	11042013-001.SSF	140300.6831	6062
722341.737	4294320.414	11417	04-Nov-13	11042013-001.SSF	140301.6499	6063
722341.974	4294320.395	10397	04-Nov-13	11042013-001.SSF	140302.6821	6064
722342.18	4294320.42	10416	04-Nov-13	11042013-001.SSF	140303.6021	6065
722342.192	4294320.463	10171	04-Nov-13	11042013-001.SSF	140304.707	6066
722342.109	4294320.465	10266	04-Nov-13	11042013-001.SSF	140305.604	6067
722341.848	4294320.49	10350	04-Nov-13	11042013-001.SSF	140306.6162	6068
722341.542	4294320.522	9879	04-Nov-13	11042013-001.SSF	140307.6079	6069
722341.483	4294320.591	9922	04-Nov-13	11042013-001.SSF	140308.6812	6070
722341.678	4294320.691	9788	04-Nov-13	11042013-001.SSF	140309.541	6071
722341.886	4294320.657	9818	04-Nov-13	11042013-001.SSF	140310.6948	6072
722342.005	4294320.411	10255	04-Nov-13	11042013-001.SSF	140311.646	6073
722342.234	4294320.123	10583	04-Nov-13	11042013-001.SSF	140312.7051	6074
722342.582	4294319.673	10385	04-Nov-13	11042013-001.SSF	140313.686	6075
722343.069	4294318.904	9989	04-Nov-13	11042013-001.SSF	140314.7651	6076
722343.195	4294318.444	9609	04-Nov-13	11042013-001.SSF	140315.5752	6077

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722343.135	4294318.202	9672	04-Nov-13	11042013-001.SSF	140316.6899	6078
722342.983	4294318.313	9956	04-Nov-13	11042013-001.SSF	140317.5898	6079
722342.735	4294318.34	10055	04-Nov-13	11042013-001.SSF	140318.6831	6080
722342.52	4294318.142	10561	04-Nov-13	11042013-001.SSF	140319.5649	6081
722342.495	4294318.079	10283	04-Nov-13	11042013-001.SSF	140320.6948	6082
722342.695	4294318.502	10576	04-Nov-13	11042013-001.SSF	140321.6011	6083
722343.17	4294319.016	10592	04-Nov-13	11042013-001.SSF	140322.7231	6084
722343.417	4294319.204	10923	04-Nov-13	11042013-001.SSF	140323.6431	6085
722343.571	4294319.261	11521	04-Nov-13	11042013-001.SSF	140324.7002	6086
722343.713	4294319.307	11588	04-Nov-13	11042013-001.SSF	140325.5449	6087
722343.754	4294319.276	12136	04-Nov-13	11042013-001.SSF	140326.6982	6088
722343.69	4294319.294	12661	04-Nov-13	11042013-001.SSF	140327.606	6089
722343.617	4294319.367	11517	04-Nov-13	11042013-001.SSF	140328.625	6090
722343.556	4294319.441	11143	04-Nov-13	11042013-001.SSF	140329.562	6091
722343.508	4294319.535	12163	04-Nov-13	11042013-001.SSF	140330.6631	6092
722343.497	4294319.615	11551	04-Nov-13	11042013-001.SSF	140331.6318	6093
722343.488	4294319.708	10735	04-Nov-13	11042013-001.SSF	140332.667	6094
722343.502	4294319.799	11183	04-Nov-13	11042013-001.SSF	140333.644	6095
722343.565	4294319.858	11405	04-Nov-13	11042013-001.SSF	140334.6929	6096
722343.611	4294319.877	11583	04-Nov-13	11042013-001.SSF	140335.667	6097
722343.504	4294319.958	11720	04-Nov-13	11042013-001.SSF	140336.6958	6098
722343.337	4294319.989	11085	04-Nov-13	11042013-001.SSF	140337.6689	6099
722343.304	4294319.917	11380	04-Nov-13	11042013-001.SSF	140338.7739	6100
722343.332	4294319.849	11344	04-Nov-13	11042013-001.SSF	140339.6362	6101
722343.347	4294319.828	10903	04-Nov-13	11042013-001.SSF	140340.7148	6102
722343.322	4294319.793	11353	04-Nov-13	11042013-001.SSF	140341.6289	6103
722343.279	4294319.743	11876	04-Nov-13	11042013-001.SSF	140342.6729	6104
722343.281	4294319.72	11525	04-Nov-13	11042013-001.SSF	140343.6372	6105
722343.34	4294319.671	11515	04-Nov-13	11042013-001.SSF	140344.6899	6106
722343.326	4294319.686	12042	04-Nov-13	11042013-001.SSF	140345.6411	6107
722343.374	4294319.964	11273	04-Nov-13	11042013-001.SSF	140346.7598	6108
722343.241	4294320.5	10234	04-Nov-13	11042013-001.SSF	140347.6572	6109
722343.024	4294321.103	9476	04-Nov-13	11042013-001.SSF	140348.7529	6110
722342.988	4294321.367	9935	04-Nov-13	11042013-001.SSF	140349.6768	6111
722342.927	4294321.398	9713	04-Nov-13	11042013-001.SSF	140350.686	6112
722342.933	4294321.427	9648	04-Nov-13	11042013-001.SSF	140351.5742	6113
722342.86	4294321.632	9387	04-Nov-13	11042013-001.SSF	140352.6851	6114
722342.802	4294321.927	9338	04-Nov-13	11042013-001.SSF	140353.5811	6115
722342.823	4294322.587	9355	04-Nov-13	11042013-001.SSF	140354.7529	6116
722342.765	4294322.735	9132	04-Nov-13	11042013-001.SSF	140355.5781	6117
722342.643	4294322.456	9194	04-Nov-13	11042013-001.SSF	140356.6948	6118
722342.657	4294322.307	9109	04-Nov-13	11042013-001.SSF	140357.5532	6119
722342.857	4294322.223	9879	04-Nov-13	11042013-001.SSF	140358.7349	6120
722343.154	4294322.2	10034	04-Nov-13	11042013-001.SSF	140359.646	6121
722343.359	4294321.881	9701	04-Nov-13	11042013-001.SSF	140360.6069	6122
722343.429	4294321.335	9799	04-Nov-13	11042013-001.SSF	140361.541	6123
722343.437	4294320.854	10485	04-Nov-13	11042013-001.SSF	140362.6431	6124

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722343.505	4294320.519	10502	04-Nov-13	11042013-001.SSF	140363.6011	6125
722343.746	4294320.079	11045	04-Nov-13	11042013-001.SSF	140364.6499	6126
722344.246	4294319.838	10803	04-Nov-13	11042013-001.SSF	140365.6719	6127
722345.01	4294319.759	10231	04-Nov-13	11042013-001.SSF	140366.707	6128
722345.481	4294319.558	10240	04-Nov-13	11042013-001.SSF	140367.6719	6129
722345.614	4294319.453	10027	04-Nov-13	11042013-001.SSF	140368.6768	6130
722345.49	4294319.366	10725	04-Nov-13	11042013-001.SSF	140369.6621	6131
722345.529	4294319.143	9730	04-Nov-13	11042013-001.SSF	140370.6279	6132
722345.699	4294318.936	9531	04-Nov-13	11042013-001.SSF	140371.6538	6133
722345.672	4294318.782	9958	04-Nov-13	11042013-001.SSF	140372.6582	6134
722345.6	4294318.759	10379	04-Nov-13	11042013-001.SSF	140373.5972	6135
722345.61	4294318.806	10683	04-Nov-13	11042013-001.SSF	140374.6348	6136
722345.646	4294318.815	11124	04-Nov-13	11042013-001.SSF	140375.623	6137
722345.667	4294318.812	10855	04-Nov-13	11042013-001.SSF	140376.6748	6138
722345.606	4294318.777	10688	04-Nov-13	11042013-001.SSF	140377.603	6139
722345.381	4294318.759	10662	04-Nov-13	11042013-001.SSF	140378.6558	6140
722345.224	4294318.944	10632	04-Nov-13	11042013-001.SSF	140379.5752	6141
722345.093	4294319.605	10195	04-Nov-13	11042013-001.SSF	140380.6548	6142
722345.093	4294320.302	10572	04-Nov-13	11042013-001.SSF	140381.5889	6143
722345.274	4294320.904	10019	04-Nov-13	11042013-001.SSF	140382.6592	6144
722345.397	4294321.03	9626	04-Nov-13	11042013-001.SSF	140383.6558	6145
722345.615	4294320.898	10334	04-Nov-13	11042013-001.SSF	140384.7471	6146
722345.793	4294320.783	10650	04-Nov-13	11042013-001.SSF	140385.6362	6147
722345.896	4294320.735	10333	04-Nov-13	11042013-001.SSF	140386.7539	6148
722345.903	4294320.751	10462	04-Nov-13	11042013-001.SSF	140387.5879	6149
722345.923	4294320.825	10130	04-Nov-13	11042013-001.SSF	140388.7202	6150
722345.958	4294320.852	10115	04-Nov-13	11042013-001.SSF	140389.6548	6151
722345.995	4294320.84	9942	04-Nov-13	11042013-001.SSF	140390.6621	6152
722345.969	4294320.822	9917	04-Nov-13	11042013-001.SSF	140391.5889	6153
722345.747	4294320.989	9471	04-Nov-13	11042013-001.SSF	140392.6191	6154
722345.584	4294321.434	9520	04-Nov-13	11042013-001.SSF	140393.5659	6155
722345.571	4294321.816	9375	04-Nov-13	11042013-001.SSF	140394.6611	6156
722345.575	4294321.775	9781	04-Nov-13	11042013-001.SSF	140395.561	6157
722345.625	4294321.644	10571	04-Nov-13	11042013-001.SSF	140396.6851	6158
722345.736	4294321.664	10116	04-Nov-13	11042013-001.SSF	140397.5068	6159
722345.889	4294321.717	9815	04-Nov-13	11042013-001.SSF	140398.645	6160
722345.982	4294321.766	10148	04-Nov-13	11042013-001.SSF	140399.5801	6161
722346.015	4294321.774	9901	04-Nov-13	11042013-001.SSF	140400.7051	6162
722346.032	4294321.594	9746	04-Nov-13	11042013-001.SSF	140401.6338	6163
722346.242	4294321.552	9345	04-Nov-13	11042013-001.SSF	140402.7158	6164
722346.424	4294321.78	9468	04-Nov-13	11042013-001.SSF	140403.6172	6165
722346.522	4294321.843	8871	04-Nov-13	11042013-001.SSF	140404.686	6166
722346.61	4294321.789	9130	04-Nov-13	11042013-001.SSF	140405.5981	6167
722346.742	4294321.537	9590	04-Nov-13	11042013-001.SSF	140406.6748	6168
722347.049	4294321.068	10007	04-Nov-13	11042013-001.SSF	140407.6069	6169
722347.381	4294320.621	10166	04-Nov-13	11042013-001.SSF	140408.729	6170
722347.307	4294320.409	10503	04-Nov-13	11042013-001.SSF	140409.583	6171

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722347.208	4294320.257	10895	04-Nov-13	11042013-001.SSF	140410.6001	6172
722347.326	4294320.196	11101	04-Nov-13	11042013-001.SSF	140411.5449	6173
722347.603	4294320.089	10452	04-Nov-13	11042013-001.SSF	140412.6709	6174
722347.802	4294320.019	10252	04-Nov-13	11042013-001.SSF	140413.4912	6175
722347.928	4294319.992	9884	04-Nov-13	11042013-001.SSF	140414.6152	6176
722347.879	4294319.95	10134	04-Nov-13	11042013-001.SSF	140415.5752	6177
722347.547	4294319.747	10208	04-Nov-13	11042013-001.SSF	140416.606	6178
722346.998	4294319.389	10624	04-Nov-13	11042013-001.SSF	140417.5171	6179
722346.308	4294319.028	10904	04-Nov-13	11042013-001.SSF	140418.6558	6180
722345.803	4294318.974	10371	04-Nov-13	11042013-001.SSF	140419.541	6181
722344.97	4294318.784	10453	04-Nov-13	11042013-001.SSF	140420.7388	6182
722344.356	4294318.496	10170	04-Nov-13	11042013-001.SSF	140421.6309	6183
722343.894	4294318.327	10543	04-Nov-13	11042013-001.SSF	140422.6572	6184
722343.574	4294318.245	11413	04-Nov-13	11042013-001.SSF	140423.5732	6185
722343.025	4294318.111	11437	04-Nov-13	11042013-001.SSF	140424.707	6186
722342.522	4294317.878	10431	04-Nov-13	11042013-001.SSF	140425.5771	6187
722341.95	4294317.623	10405	04-Nov-13	11042013-001.SSF	140426.6592	6188
722341.635	4294317.477	10307	04-Nov-13	11042013-001.SSF	140427.5972	6189
722341.367	4294317.314	9698	04-Nov-13	11042013-001.SSF	140428.6899	6190
722341.065	4294316.996	9887	04-Nov-13	11042013-001.SSF	140429.6431	6191
722340.829	4294316.65	10204	04-Nov-13	11042013-001.SSF	140430.6558	6192
722340.736	4294316.63	9520	04-Nov-13	11042013-001.SSF	140431.6221	6193
722340.521	4294317.128	9277	04-Nov-13	11042013-001.SSF	140432.6582	6194
722340.317	4294317.71	9178	04-Nov-13	11042013-001.SSF	140433.562	6195
722340.279	4294318.23	8545	04-Nov-13	11042013-001.SSF	140434.6768	6196
722340.295	4294318.318	8504	04-Nov-13	11042013-001.SSF	140435.5542	6197
722340.289	4294318.327	8608	04-Nov-13	11042013-001.SSF	140436.6992	6198
722340.285	4294318.389	8637	04-Nov-13	11042013-001.SSF	140437.6558	6199
722340.305	4294318.465	8556	04-Nov-13	11042013-001.SSF	140438.71	6200
722340.129	4294318.593	8270	04-Nov-13	11042013-001.SSF	140439.5601	6201
722339.768	4294318.832	8177	04-Nov-13	11042013-001.SSF	140440.623	6202
722339.619	4294318.942	8117	04-Nov-13	11042013-001.SSF	140441.5439	6203
722339.593	4294318.917	8773	04-Nov-13	11042013-001.SSF	140442.6211	6204
722339.583	4294318.834	8107	04-Nov-13	11042013-001.SSF	140443.5869	6205
722339.655	4294318.857	7613	04-Nov-13	11042013-001.SSF	140444.6138	6206
722339.769	4294319.005	7717	04-Nov-13	11042013-001.SSF	140445.6001	6207
722339.83	4294319.077	7821	04-Nov-13	11042013-001.SSF	140446.5991	6208
722339.839	4294319.04	7954	04-Nov-13	11042013-001.SSF	140447.6011	6209
722339.701	4294318.985	8081	04-Nov-13	11042013-001.SSF	140448.7061	6210
722339.534	4294318.942	7921	04-Nov-13	11042013-001.SSF	140449.6021	6211
722339.449	4294318.988	7860	04-Nov-13	11042013-001.SSF	140450.729	6212
722339.435	4294319.123	7511	04-Nov-13	11042013-001.SSF	140451.6572	6213
722339.414	4294319.223	7300	04-Nov-13	11042013-001.SSF	140452.6602	6214
722339.412	4294319.263	7916	04-Nov-13	11042013-001.SSF	140453.5479	6215
722339.416	4294319.264	8315	04-Nov-13	11042013-001.SSF	140454.6709	6216
722339.429	4294319.24	8277	04-Nov-13	11042013-001.SSF	140455.542	6217
722339.502	4294319.173	7761	04-Nov-13	11042013-001.SSF	140456.5752	6218

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722339.604	4294319.109	8348	04-Nov-13	11042013-001.SSF	140457.5889	6219
722339.663	4294319.084	8145	04-Nov-13	11042013-001.SSF	140458.5908	6220
722339.683	4294319.063	8099	04-Nov-13	11042013-001.SSF	140459.4912	6221
722339.684	4294319.02	8823	04-Nov-13	11042013-001.SSF	140460.647	6222
722339.713	4294319.055	8135	04-Nov-13	11042013-001.SSF	140461.5562	6223
722339.723	4294319.09	8183	04-Nov-13	11042013-001.SSF	140462.6719	6224
722339.721	4294319.088	8166	04-Nov-13	11042013-001.SSF	140463.5972	6225
722339.735	4294319.114	7773	04-Nov-13	11042013-001.SSF	140464.603	6226
722339.752	4294319.147	7942	04-Nov-13	11042013-001.SSF	140465.5928	6227
722339.757	4294319.141	7947	04-Nov-13	11042013-001.SSF	140466.6138	6228
722339.76	4294319.14	8625	04-Nov-13	11042013-001.SSF	140467.5669	6229
722339.771	4294319.148	8039	04-Nov-13	11042013-001.SSF	140468.6738	6230
722339.763	4294319.136	7792	04-Nov-13	11042013-001.SSF	140469.6138	6231
722339.769	4294319.138	7653	04-Nov-13	11042013-001.SSF	140470.5952	6232
722339.793	4294319.158	7762	04-Nov-13	11042013-001.SSF	140471.5322	6233
722339.786	4294319.158	8033	04-Nov-13	11042013-001.SSF	140472.6572	6234
722339.762	4294319.155	8193	04-Nov-13	11042013-001.SSF	140473.6021	6235
722339.749	4294319.169	7661	04-Nov-13	11042013-001.SSF	140474.6401	6236
722339.751	4294319.161	8164	04-Nov-13	11042013-001.SSF	140475.5352	6237
722339.719	4294319.192	8207	04-Nov-13	11042013-001.SSF	140476.5669	6238
722339.634	4294319.271	7699	04-Nov-13	11042013-001.SSF	140477.4751	6239
722339.63	4294319.293	7683	04-Nov-13	11042013-001.SSF	140478.5908	6240
722339.899	4294319.241	8094	04-Nov-13	11042013-001.SSF	140479.5039	6241
722340.307	4294319.192	8528	04-Nov-13	11042013-001.SSF	140480.625	6242
722340.387	4294319.063	8322	04-Nov-13	11042013-001.SSF	140481.5229	6243
722340.521	4294318.89	8888	04-Nov-13	11042013-001.SSF	140482.6099	6244
722340.942	4294318.932	9274	04-Nov-13	11042013-001.SSF	140483.5859	6245
722341.433	4294319.076	10189	04-Nov-13	11042013-001.SSF	140484.583	6246
722341.703	4294319.188	10981	04-Nov-13	11042013-001.SSF	140485.4619	6247
722341.78	4294319.361	10842	04-Nov-13	11042013-001.SSF	140486.5708	6248
722341.897	4294319.559	11153	04-Nov-13	11042013-001.SSF	140487.4648	6249
722342.241	4294319.808	11853	04-Nov-13	11042013-001.SSF	140488.5571	6250
722342.483	4294320.035	11055	04-Nov-13	11042013-001.SSF	140489.5391	6251
722342.732	4294320.547	10178	04-Nov-13	11042013-001.SSF	140490.6968	6252
722343.042	4294321.06	9850	04-Nov-13	11042013-001.SSF	140491.6201	6253
722343.494	4294321.546	10423	04-Nov-13	11042013-001.SSF	140492.626	6254
722343.779	4294321.901	10760	04-Nov-13	11042013-001.SSF	140493.6182	6255
722343.829	4294322.079	10942	04-Nov-13	11042013-001.SSF	140494.668	6256
722343.889	4294322.158	10422	04-Nov-13	11042013-001.SSF	140495.4961	6257
722344.065	4294322.249	10017	04-Nov-13	11042013-001.SSF	140496.6099	6258
722344.216	4294322.294	9445	04-Nov-13	11042013-001.SSF	140497.5332	6259
722344.322	4294322.315	9115	04-Nov-13	11042013-001.SSF	140498.6011	6260
722344.392	4294322.322	8914	04-Nov-13	11042013-001.SSF	140499.5288	6261
722344.485	4294322.357	9379	04-Nov-13	11042013-001.SSF	140500.6602	6262
722344.562	4294322.382	9768	04-Nov-13	11042013-001.SSF	140501.5078	6263
722344.67	4294322.371	9312	04-Nov-13	11042013-001.SSF	140502.5962	6264
722344.693	4294322.35	9280	04-Nov-13	11042013-001.SSF	140503.54	6265

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722344.673	4294322.372	8850	04-Nov-13	11042013-001.SSF	140504.6479	6266
722344.666	4294322.386	9185	04-Nov-13	11042013-001.SSF	140505.5371	6267
722344.665	4294322.38	8797	04-Nov-13	11042013-001.SSF	140506.6328	6268
722344.683	4294322.384	9231	04-Nov-13	11042013-001.SSF	140507.5352	6269
722344.707	4294322.413	9160	04-Nov-13	11042013-001.SSF	140508.6372	6270
722344.712	4294322.43	9112	04-Nov-13	11042013-001.SSF	140509.5322	6271
722344.823	4294322.365	9190	04-Nov-13	11042013-001.SSF	140510.6309	6272
722345	4294322.123	9609	04-Nov-13	11042013-001.SSF	140511.5762	6273
722345.527	4294321.871	9515	04-Nov-13	11042013-001.SSF	140512.687	6274
722346.053	4294321.628	9544	04-Nov-13	11042013-001.SSF	140513.6221	6275
722346.344	4294320.945	9516	04-Nov-13	11042013-001.SSF	140514.6548	6276
722346.375	4294320.343	9695	04-Nov-13	11042013-001.SSF	140515.5488	6277
722346.46	4294319.909	9503	04-Nov-13	11042013-001.SSF	140516.667	6278
722346.575	4294319.723	9500	04-Nov-13	11042013-001.SSF	140517.5811	6279
722346.626	4294319.263	9461	04-Nov-13	11042013-001.SSF	140518.6289	6280
722346.596	4294318.864	10167	04-Nov-13	11042013-001.SSF	140519.5771	6281
722346.546	4294318.684	10301	04-Nov-13	11042013-001.SSF	140520.6372	6282
722346.477	4294318.611	10159	04-Nov-13	11042013-001.SSF	140521.54	6283
722346.516	4294318.716	10590	04-Nov-13	11042013-001.SSF	140522.6411	6284
722346.665	4294318.901	10584	04-Nov-13	11042013-001.SSF	140523.5562	6285
722346.686	4294319.044	10371	04-Nov-13	11042013-001.SSF	140524.6572	6286
722346.618	4294319.106	10633	04-Nov-13	11042013-001.SSF	140525.5381	6287
722346.563	4294319.125	10616	04-Nov-13	11042013-001.SSF	140526.6509	6288
722346.527	4294319.116	11079	04-Nov-13	11042013-001.SSF	140527.562	6289
722346.492	4294319.124	10214	04-Nov-13	11042013-001.SSF	140528.5928	6290
722346.479	4294319.15	9908	04-Nov-13	11042013-001.SSF	140529.5059	6291
722346.46	4294319.181	9855	04-Nov-13	11042013-001.SSF	140530.6348	6292
722346.452	4294319.193	10044	04-Nov-13	11042013-001.SSF	140531.541	6293
722346.445	4294319.189	10637	04-Nov-13	11042013-001.SSF	140532.6572	6294
722346.351	4294319.118	10476	04-Nov-13	11042013-001.SSF	140533.5249	6295
722346.064	4294319.01	10370	04-Nov-13	11042013-001.SSF	140534.6602	6296
722345.716	4294318.812	10535	04-Nov-13	11042013-001.SSF	140535.5352	6297
722345.326	4294318.516	10119	04-Nov-13	11042013-001.SSF	140536.5801	6298
722345.088	4294318.412	10297	04-Nov-13	11042013-001.SSF	140537.5229	6299
722344.748	4294318.386	10194	04-Nov-13	11042013-001.SSF	140538.5552	6300
722344.43	4294318.321	11817	04-Nov-13	11042013-001.SSF	140539.479	6301
722344.177	4294318.221	10779	04-Nov-13	11042013-001.SSF	140540.6191	6302
722343.856	4294318.089	11396	04-Nov-13	11042013-001.SSF	140541.5068	6303
722343.5	4294317.943	11862	04-Nov-13	11042013-001.SSF	140542.6182	6304
722343.454	4294317.969	11060	04-Nov-13	11042013-001.SSF	140543.52	6305
722343.42	4294317.954	11516	04-Nov-13	11042013-001.SSF	140544.6162	6306
722343.398	4294317.95	11480	04-Nov-13	11042013-001.SSF	140545.5112	6307
722343.276	4294318.133	11085	04-Nov-13	11042013-001.SSF	140546.604	6308
722343.103	4294318.34	10908	04-Nov-13	11042013-001.SSF	140547.5098	6309
722343.104	4294318.385	10673	04-Nov-13	11042013-001.SSF	140548.6001	6310
722343.22	4294318.275	11501	04-Nov-13	11042013-001.SSF	140549.5078	6311
722343.312	4294318.249	11434	04-Nov-13	11042013-001.SSF	140550.6279	6312

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722343.331	4294318.322	11426	04-Nov-13	11042013-001.SSF	140551.5352	6313
722343.344	4294318.36	11047	04-Nov-13	11042013-001.SSF	140552.563	6314
722343.381	4294318.338	11216	04-Nov-13	11042013-001.SSF	140553.5669	6315
722343.398	4294318.411	11604	04-Nov-13	11042013-001.SSF	140554.6318	6316
722343.417	4294318.425	12130	04-Nov-13	11042013-001.SSF	140555.5391	6317
722343.467	4294318.28	12350	04-Nov-13	11042013-001.SSF	140556.5649	6318
722343.51	4294318.173	11739	04-Nov-13	11042013-001.SSF	140557.4839	6319
722343.549	4294318.154	11133	04-Nov-13	11042013-001.SSF	140558.6108	6320
722343.591	4294318.174	11595	04-Nov-13	11042013-001.SSF	140559.4741	6321
722343.647	4294318.198	11592	04-Nov-13	11042013-001.SSF	140560.6191	6322
722343.667	4294318.174	12760	04-Nov-13	11042013-001.SSF	140561.5112	6323
722343.652	4294318.151	13027	04-Nov-13	11042013-001.SSF	140562.6431	6324
722343.633	4294318.15	12398	04-Nov-13	11042013-001.SSF	140563.5352	6325
722343.627	4294318.117	12216	04-Nov-13	11042013-001.SSF	140564.686	6326
722343.542	4294318.11	11986	04-Nov-13	11042013-001.SSF	140565.4482	6327
722343.306	4294318.117	11760	04-Nov-13	11042013-001.SSF	140566.5801	6328
722343.316	4294318.086	11280	04-Nov-13	11042013-001.SSF	140567.52	6329
722343.551	4294318.041	11242	04-Nov-13	11042013-001.SSF	140568.5532	6330
722343.694	4294318.04	11191	04-Nov-13	11042013-001.SSF	140569.479	6331
722343.744	4294318.073	11612	04-Nov-13	11042013-001.SSF	140570.644	6332
722343.765	4294318.083	11249	04-Nov-13	11042013-001.SSF	140571.4658	6333
722343.748	4294318.38	11210	04-Nov-13	11042013-001.SSF	140572.5942	6334
722344.083	4294318.902	11315	04-Nov-13	11042013-001.SSF	140573.5259	6335
722344.867	4294319.496	10565	04-Nov-13	11042013-001.SSF	140574.6499	6336
722345.273	4294319.814	10450	04-Nov-13	11042013-001.SSF	140575.437	6337
722345.643	4294320.163	10056	04-Nov-13	11042013-001.SSF	140576.5581	6338
722345.882	4294320.299	9586	04-Nov-13	11042013-001.SSF	140577.4692	6339
722346.005	4294320.272	9915	04-Nov-13	11042013-001.SSF	140578.5762	6340
722345.99	4294320.317	9567	04-Nov-13	11042013-001.SSF	140579.4629	6341
722345.951	4294320.544	9821	04-Nov-13	11042013-001.SSF	140580.6152	6342
722345.917	4294320.631	10249	04-Nov-13	11042013-001.SSF	140581.5249	6343
722345.871	4294320.473	10783	04-Nov-13	11042013-001.SSF	140582.6411	6344
722345.838	4294320.331	9972	04-Nov-13	11042013-001.SSF	140583.541	6345
722345.804	4294320.479	9014	04-Nov-13	11042013-001.SSF	140584.6528	6346
722345.773	4294320.626	9120	04-Nov-13	11042013-001.SSF	140585.54	6347
722345.775	4294320.679	9727	04-Nov-13	11042013-001.SSF	140586.5771	6348
722345.8	4294320.713	9529	04-Nov-13	11042013-001.SSF	140587.5161	6349
722345.81	4294320.757	9747	04-Nov-13	11042013-001.SSF	140588.5908	6350
722345.794	4294320.786	9705	04-Nov-13	11042013-001.SSF	140589.521	6351
722345.788	4294320.811	9637	04-Nov-13	11042013-001.SSF	140590.582	6352
722345.799	4294320.827	10400	04-Nov-13	11042013-001.SSF	140591.5278	6353
722345.828	4294320.838	10583	04-Nov-13	11042013-001.SSF	140592.606	6354
722345.849	4294320.841	10790	04-Nov-13	11042013-001.SSF	140593.4868	6355
722345.861	4294320.844	10254	04-Nov-13	11042013-001.SSF	140594.5601	6356
722345.949	4294320.738	9720	04-Nov-13	11042013-001.SSF	140595.4561	6357
722346.022	4294320.504	9735	04-Nov-13	11042013-001.SSF	140596.5928	6358
722346.06	4294320.137	10313	04-Nov-13	11042013-001.SSF	140597.5151	6359

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722346.156	4294319.432	10181	04-Nov-13	11042013-001.SSF	140598.5571	6360
722346.202	4294318.773	10422	04-Nov-13	11042013-001.SSF	140599.4941	6361
722346.175	4294318.145	10197	04-Nov-13	11042013-001.SSF	140600.5532	6362
722345.968	4294317.836	10506	04-Nov-13	11042013-001.SSF	140601.4819	6363
722345.533	4294317.854	10777	04-Nov-13	11042013-001.SSF	140602.5981	6364
722345.355	4294318.13	10509	04-Nov-13	11042013-001.SSF	140603.4971	6365
722345.484	4294318.52	10531	04-Nov-13	11042013-001.SSF	140604.5371	6366
722345.587	4294318.611	10574	04-Nov-13	11042013-001.SSF	140605.4409	6367
722345.548	4294318.543	10402	04-Nov-13	11042013-001.SSF	140606.5562	6368
722345.507	4294318.543	10299	04-Nov-13	11042013-001.SSF	140607.5249	6369
722345.456	4294318.516	9880	04-Nov-13	11042013-001.SSF	140608.54	6370
722345.406	4294318.472	10222	04-Nov-13	11042013-001.SSF	140609.4502	6371
722345.354	4294318.441	10407	04-Nov-13	11042013-001.SSF	140610.5601	6372
722345.341	4294318.448	10721	04-Nov-13	11042013-001.SSF	140611.5132	6373
722345.323	4294318.454	10193	04-Nov-13	11042013-001.SSF	140612.5679	6374
722345.286	4294318.461	9723	04-Nov-13	11042013-001.SSF	140613.5029	6375
722345.242	4294318.474	10112	04-Nov-13	11042013-001.SSF	140614.5698	6376
722345.218	4294318.473	10788	04-Nov-13	11042013-001.SSF	140615.521	6377
722345.221	4294318.477	10913	04-Nov-13	11042013-001.SSF	140616.5732	6378
722345.231	4294318.489	9963	04-Nov-13	11042013-001.SSF	140617.4829	6379
722345.226	4294318.494	9609	04-Nov-13	11042013-001.SSF	140618.5898	6380
722345.235	4294318.5	10423	04-Nov-13	11042013-001.SSF	140619.4888	6381
722345.238	4294318.513	9635	04-Nov-13	11042013-001.SSF	140620.603	6382
722345.198	4294318.398	9304	04-Nov-13	11042013-001.SSF	140621.5649	6383
722345.153	4294318.298	9749	04-Nov-13	11042013-001.SSF	140622.5918	6384
722345.095	4294318.386	11161	04-Nov-13	11042013-001.SSF	140623.5688	6385
722345.051	4294318.452	11580	04-Nov-13	11042013-001.SSF	140624.5962	6386
722345.062	4294318.439	11629	04-Nov-13	11042013-001.SSF	140625.499	6387
722345.078	4294318.416	11866	04-Nov-13	11042013-001.SSF	140626.5552	6388
722345.044	4294318.399	12427	04-Nov-13	11042013-001.SSF	140627.5679	6389
722345.013	4294318.421	13042	04-Nov-13	11042013-001.SSF	140628.6021	6390
722344.983	4294318.401	12399	04-Nov-13	11042013-001.SSF	140629.563	6391
722344.924	4294318.308	12742	04-Nov-13	11042013-001.SSF	140630.5552	6392
722344.894	4294318.271	12274	04-Nov-13	11042013-001.SSF	140631.4858	6393
722344.883	4294318.376	12552	04-Nov-13	11042013-001.SSF	140632.5322	6394
722344.846	4294318.51	12564	04-Nov-13	11042013-001.SSF	140633.4409	6395
722344.781	4294318.595	12258	04-Nov-13	11042013-001.SSF	140634.564	6396
722344.774	4294318.607	12250	04-Nov-13	11042013-001.SSF	140635.4741	6397
722344.802	4294318.597	12725	04-Nov-13	11042013-001.SSF	140636.541	6398
722344.796	4294318.577	12303	04-Nov-13	11042013-001.SSF	140637.4692	6399
722344.771	4294318.56	12455	04-Nov-13	11042013-001.SSF	140638.5791	6400
722344.739	4294318.535	12398	04-Nov-13	11042013-001.SSF	140639.4409	6401
722344.681	4294318.493	12089	04-Nov-13	11042013-001.SSF	140640.562	6402
722344.662	4294318.489	11802	04-Nov-13	11042013-001.SSF	140641.4951	6403
722344.625	4294318.442	12121	04-Nov-13	11042013-001.SSF	140642.5181	6404
722344.557	4294318.336	11828	04-Nov-13	11042013-001.SSF	140643.4771	6405
722344.534	4294318.268	11581	04-Nov-13	11042013-001.SSF	140644.5581	6406

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722344.563	4294318.246	12394	04-Nov-13	11042013-001.SSF	140645.5352	6407
722344.621	4294318.285	12244	04-Nov-13	11042013-001.SSF	140646.5381	6408
722344.673	4294318.43	11185	04-Nov-13	11042013-001.SSF	140647.4609	6409
722344.684	4294318.566	10874	04-Nov-13	11042013-001.SSF	140648.5688	6410
722344.679	4294318.534	10691	04-Nov-13	11042013-001.SSF	140649.4399	6411
722344.661	4294318.437	10739	04-Nov-13	11042013-001.SSF	140650.541	6412
722344.624	4294318.399	11125	04-Nov-13	11042013-001.SSF	140651.4771	6413
722344.593	4294318.397	10563	04-Nov-13	11042013-001.SSF	140652.4878	6414
722344.578	4294318.406	10644	04-Nov-13	11042013-001.SSF	140653.4331	6415
722344.567	4294318.415	10607	04-Nov-13	11042013-001.SSF	140654.5278	6416
722344.589	4294318.45	11186	04-Nov-13	11042013-001.SSF	140655.5649	6417
722344.633	4294318.477	10447	04-Nov-13	11042013-001.SSF	140656.5791	6418
722344.652	4294318.457	10834	04-Nov-13	11042013-001.SSF	140657.4902	6419
722344.659	4294318.421	11119	04-Nov-13	11042013-001.SSF	140658.6128	6420
722344.65	4294318.401	11077	04-Nov-13	11042013-001.SSF	140659.5122	6421
722344.626	4294318.378	10513	04-Nov-13	11042013-001.SSF	140660.6118	6422
722344.627	4294318.392	11051	04-Nov-13	11042013-001.SSF	140661.5078	6423
722344.656	4294318.462	11174	04-Nov-13	11042013-001.SSF	140662.6108	6424
722344.661	4294318.507	11272	04-Nov-13	11042013-001.SSF	140663.5278	6425
722344.674	4294318.539	11381	04-Nov-13	11042013-001.SSF	140664.543	6426
722344.716	4294318.627	11801	04-Nov-13	11042013-001.SSF	140665.46	6427
722344.764	4294318.778	11326	04-Nov-13	11042013-001.SSF	140666.604	6428
722344.774	4294318.819	11463	04-Nov-13	11042013-001.SSF	140667.46	6429
722344.792	4294318.838	11308	04-Nov-13	11042013-001.SSF	140668.5752	6430
722344.804	4294318.832	11033	04-Nov-13	11042013-001.SSF	140669.4849	6431
722344.814	4294318.822	10923	04-Nov-13	11042013-001.SSF	140670.626	6432
722344.827	4294318.813	11529	04-Nov-13	11042013-001.SSF	140671.5342	6433
722344.782	4294318.762	11128	04-Nov-13	11042013-001.SSF	140672.6421	6434
722344.732	4294318.718	11359	04-Nov-13	11042013-001.SSF	140673.5479	6435
722344.688	4294318.68	10964	04-Nov-13	11042013-001.SSF	140674.5552	6436
722344.672	4294318.669	10742	04-Nov-13	11042013-001.SSF	140675.4312	6437
722344.703	4294318.679	11427	04-Nov-13	11042013-001.SSF	140676.5298	6438
722344.679	4294318.591	11303	04-Nov-13	11042013-001.SSF	140677.4351	6439
722344.587	4294318.466	11833	04-Nov-13	11042013-001.SSF	140678.5488	6440
722344.583	4294318.513	11306	04-Nov-13	11042013-001.SSF	140679.4678	6441
722344.605	4294318.579	11182	04-Nov-13	11042013-001.SSF	140680.54	6442
722344.591	4294318.579	10805	04-Nov-13	11042013-001.SSF	140681.4731	6443
722344.559	4294318.54	10592	04-Nov-13	11042013-001.SSF	140682.6021	6444
722344.513	4294318.497	10421	04-Nov-13	11042013-001.SSF	140683.4731	6445
722344.325	4294318.405	10474	04-Nov-13	11042013-001.SSF	140684.605	6446
722344.149	4294318.333	11044	04-Nov-13	11042013-001.SSF	140685.4829	6447
722344.12	4294318.325	11035	04-Nov-13	11042013-001.SSF	140686.6162	6448
722344.194	4294318.338	11202	04-Nov-13	11042013-001.SSF	140687.5542	6449
722344.242	4294318.326	11318	04-Nov-13	11042013-001.SSF	140688.5752	6450
722344.258	4294318.325	11339	04-Nov-13	11042013-001.SSF	140689.4941	6451
722344.268	4294318.329	11028	04-Nov-13	11042013-001.SSF	140690.5469	6452
722344.264	4294318.302	11258	04-Nov-13	11042013-001.SSF	140691.4468	6453

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722344.241	4294318.241	11808	04-Nov-13	11042013-001.SSF	140692.4922	6454
722344.22	4294318.185	12026	04-Nov-13	11042013-001.SSF	140693.4131	6455
722344.197	4294318.155	11812	04-Nov-13	11042013-001.SSF	140694.543	6456
722344.18	4294318.171	11902	04-Nov-13	11042013-001.SSF	140695.4482	6457
722344.008	4294318.285	11675	04-Nov-13	11042013-001.SSF	140696.5698	6458
722343.648	4294318.503	11757	04-Nov-13	11042013-001.SSF	140697.4829	6459
722342.927	4294318.781	11421	04-Nov-13	11042013-001.SSF	140698.5649	6460
722342.235	4294318.988	11141	04-Nov-13	11042013-001.SSF	140699.48	6461
722341.763	4294319.367	11622	04-Nov-13	11042013-001.SSF	140700.5449	6462
722341.579	4294319.785	11097	04-Nov-13	11042013-001.SSF	140701.4639	6463
722341.263	4294320.421	10562	04-Nov-13	11042013-001.SSF	140702.543	6464
722341.003	4294321.097	10418	04-Nov-13	11042013-001.SSF	140703.4482	6465
722340.735	4294321.685	9633	04-Nov-13	11042013-001.SSF	140704.4971	6466
722340.441	4294321.954	8981	04-Nov-13	11042013-001.SSF	140705.5239	6467
722340.097	4294322.151	9214	04-Nov-13	11042013-001.SSF	140706.562	6468
722339.623	4294322.538	9390	04-Nov-13	11042013-001.SSF	140707.4609	6469
722339.013	4294323.238	9137	04-Nov-13	11042013-001.SSF	140708.5532	6470
722338.454	4294323.488	9017	04-Nov-13	11042013-001.SSF	140709.4609	6471
722337.66	4294323.514	9144	04-Nov-13	11042013-001.SSF	140710.561	6472
722337.183	4294323.613	9606	04-Nov-13	11042013-001.SSF	140711.4502	6473
722336.826	4294323.702	9303	04-Nov-13	11042013-001.SSF	140712.5771	6474
722336.671	4294323.816	8795	04-Nov-13	11042013-001.SSF	140713.4629	6475
722336.56	4294323.897	8427	04-Nov-13	11042013-001.SSF	140714.5078	6476
722336.471	4294323.838	8535	04-Nov-13	11042013-001.SSF	140715.4292	6477
722336.37	4294323.737	9556	04-Nov-13	11042013-001.SSF	140716.541	6478
722336.295	4294323.653	9350	04-Nov-13	11042013-001.SSF	140717.459	6479
722336.237	4294323.587	9804	04-Nov-13	11042013-001.SSF	140718.5552	6480
722336.205	4294323.524	9505	04-Nov-13	11042013-001.SSF	140719.4888	6481
722336.215	4294323.466	9734	04-Nov-13	11042013-001.SSF	140720.501	6482
722336.26	4294323.452	8955	04-Nov-13	11042013-001.SSF	140721.4839	6483
722336.296	4294323.475	9222	04-Nov-13	11042013-001.SSF	140722.5122	6484
722336.336	4294323.524	8727	04-Nov-13	11042013-001.SSF	140723.522	6485
722336.37	4294323.517	8119	04-Nov-13	11042013-001.SSF	140724.583	6486
722336.374	4294323.497	8924	04-Nov-13	11042013-001.SSF	140725.5122	6487
722336.358	4294323.506	9452	04-Nov-13	11042013-001.SSF	140726.54	6488
722336.3	4294323.502	9247	04-Nov-13	11042013-001.SSF	140727.5229	6489
722336.236	4294323.5	9191	04-Nov-13	11042013-001.SSF	140728.564	6490
722336.228	4294323.477	8987	04-Nov-13	11042013-001.SSF	140729.4731	6491
722336.206	4294323.425	9810	04-Nov-13	11042013-001.SSF	140730.5581	6492
722336.165	4294323.436	9158	04-Nov-13	11042013-001.SSF	140731.4419	6493
722335.872	4294323.459	9109	04-Nov-13	11042013-001.SSF	140732.4639	6494
722335.254	4294323.606	8514	04-Nov-13	11042013-001.SSF	140733.4429	6495
722334.632	4294324.109	8854	04-Nov-13	11042013-001.SSF	140734.521	6496
722334.414	4294324.574	8865	04-Nov-13	11042013-001.SSF	140735.3911	6497
722334.549	4294325.101	9021	04-Nov-13	11042013-001.SSF	140736.5142	6498
722334.776	4294325.421	9087	04-Nov-13	11042013-001.SSF	140737.436	6499
722335.003	4294325.543	9379	04-Nov-13	11042013-001.SSF	140738.5498	6500

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722335.119	4294325.52	9498	04-Nov-13	11042013-001.SSF	140739.377	6501
722335.253	4294325.44	9880	04-Nov-13	11042013-001.SSF	140740.4961	6502
722335.277	4294325.409	9502	04-Nov-13	11042013-001.SSF	140741.4331	6503
722335.118	4294325.329	9192	04-Nov-13	11042013-001.SSF	140742.5942	6504
722335.083	4294325.23	9221	04-Nov-13	11042013-001.SSF	140743.4468	6505
722335.182	4294325.147	8996	04-Nov-13	11042013-001.SSF	140744.5879	6506
722335.253	4294325.106	8600	04-Nov-13	11042013-001.SSF	140745.4868	6507
722335.313	4294325.125	9180	04-Nov-13	11042013-001.SSF	140746.5669	6508
722335.321	4294325.184	8658	04-Nov-13	11042013-001.SSF	140747.4678	6509
722335.315	4294325.242	9070	04-Nov-13	11042013-001.SSF	140748.5142	6510
722335.352	4294325.288	9092	04-Nov-13	11042013-001.SSF	140749.5088	6511
722335.409	4294325.302	8894	04-Nov-13	11042013-001.SSF	140750.5181	6512
722335.432	4294325.325	9330	04-Nov-13	11042013-001.SSF	140751.5132	6513
722335.459	4294325.417	9336	04-Nov-13	11042013-001.SSF	140752.541	6514
722335.497	4294325.496	8986	04-Nov-13	11042013-001.SSF	140753.4551	6515
722335.605	4294325.64	8745	04-Nov-13	11042013-001.SSF	140754.5962	6516
722335.655	4294325.842	8796	04-Nov-13	11042013-001.SSF	140755.4409	6517
722335.639	4294326.291	9215	04-Nov-13	11042013-001.SSF	140756.5781	6518
722335.683	4294326.532	9271	04-Nov-13	11042013-001.SSF	140757.4888	6519
722335.772	4294326.554	9872	04-Nov-13	11042013-001.SSF	140758.5698	6520
722335.809	4294326.582	9663	04-Nov-13	11042013-001.SSF	140759.4561	6521
722335.863	4294326.711	9403	04-Nov-13	11042013-001.SSF	140760.5068	6522
722335.905	4294326.817	9249	04-Nov-13	11042013-001.SSF	140761.3398	6523
722335.903	4294326.944	9425	04-Nov-13	11042013-001.SSF	140762.4971	6524
722335.919	4294327.01	9471	04-Nov-13	11042013-001.SSF	140763.354	6525
722335.965	4294326.948	9618	04-Nov-13	11042013-001.SSF	140764.5049	6526
722335.995	4294326.879	10015	04-Nov-13	11042013-001.SSF	140765.3481	6527
722335.992	4294326.618	9721	04-Nov-13	11042013-001.SSF	140766.5068	6528
722336.024	4294326.251	9263	04-Nov-13	11042013-001.SSF	140767.377	6529
722336.193	4294325.827	8503	04-Nov-13	11042013-001.SSF	140768.5259	6530
722336.233	4294325.693	9012	04-Nov-13	11042013-001.SSF	140769.3662	6531
722336.043	4294325.589	8699	04-Nov-13	11042013-001.SSF	140770.5342	6532
722335.91	4294325.571	9198	04-Nov-13	11042013-001.SSF	140771.4722	6533
722335.866	4294325.574	9471	04-Nov-13	11042013-001.SSF	140772.522	6534
722335.865	4294325.57	9287	04-Nov-13	11042013-001.SSF	140773.4258	6535
722335.877	4294325.517	9551	04-Nov-13	11042013-001.SSF	140774.4868	6536
722335.874	4294325.462	8770	04-Nov-13	11042013-001.SSF	140775.499	6537
722335.856	4294325.5	8841	04-Nov-13	11042013-001.SSF	140776.4912	6538
722335.845	4294325.608	8970	04-Nov-13	11042013-001.SSF	140777.4458	6539
722335.761	4294325.692	8923	04-Nov-13	11042013-001.SSF	140778.5059	6540
722335.558	4294325.763	8619	04-Nov-13	11042013-001.SSF	140779.4771	6541
722335.336	4294326.08	8643	04-Nov-13	11042013-001.SSF	140780.501	6542
722335.305	4294326.594	8882	04-Nov-13	11042013-001.SSF	140781.3799	6543
722335.415	4294327.387	9421	04-Nov-13	11042013-001.SSF	140782.437	6544
722335.438	4294328.121	9184	04-Nov-13	11042013-001.SSF	140783.4468	6545
722335.504	4294328.615	9126	04-Nov-13	11042013-001.SSF	140784.4521	6546
722335.616	4294328.72	8793	04-Nov-13	11042013-001.SSF	140785.5068	6547

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722335.689	4294328.57	9071	04-Nov-13	11042013-001.SSF	140786.5161	6548
722335.698	4294328.497	9872	04-Nov-13	11042013-001.SSF	140787.4092	6549
722335.646	4294328.466	9716	04-Nov-13	11042013-001.SSF	140788.5112	6550
722335.62	4294328.485	9485	04-Nov-13	11042013-001.SSF	140789.4912	6551
722335.601	4294328.526	9925	04-Nov-13	11042013-001.SSF	140790.5049	6552
722335.586	4294328.558	9190	04-Nov-13	11042013-001.SSF	140791.4248	6553
722335.568	4294328.58	9894	04-Nov-13	11042013-001.SSF	140792.5771	6554
722335.57	4294328.587	9443	04-Nov-13	11042013-001.SSF	140793.4468	6555
722335.579	4294328.606	9639	04-Nov-13	11042013-001.SSF	140794.5039	6556
722335.568	4294328.624	9749	04-Nov-13	11042013-001.SSF	140795.499	6557
722335.556	4294328.639	9354	04-Nov-13	11042013-001.SSF	140796.502	6558
722335.56	4294328.645	9506	04-Nov-13	11042013-001.SSF	140797.4282	6559
722335.567	4294328.616	10440	04-Nov-13	11042013-001.SSF	140798.5151	6560
722335.56	4294328.565	10515	04-Nov-13	11042013-001.SSF	140799.4648	6561
722335.557	4294328.526	10287	04-Nov-13	11042013-001.SSF	140800.4849	6562
722335.553	4294328.513	9626	04-Nov-13	11042013-001.SSF	140801.417	6563
722335.545	4294328.497	9262	04-Nov-13	11042013-001.SSF	140802.4302	6564
722335.529	4294328.484	9515	04-Nov-13	11042013-001.SSF	140803.3799	6565
722335.495	4294328.479	9799	04-Nov-13	11042013-001.SSF	140804.438	6566
722335.46	4294328.455	9735	04-Nov-13	11042013-001.SSF	140805.4448	6567
722335.433	4294328.43	9330	04-Nov-13	11042013-001.SSF	140806.5732	6568
722335.408	4294328.408	8946	04-Nov-13	11042013-001.SSF	140807.4888	6569
722335.37	4294328.251	9044	04-Nov-13	11042013-001.SSF	140808.5122	6570
722335.318	4294328.028	9130	04-Nov-13	11042013-001.SSF	140809.457	6571
722335.253	4294327.961	8998	04-Nov-13	11042013-001.SSF	140810.5498	6572
722335.237	4294328.013	9051	04-Nov-13	11042013-001.SSF	140811.3882	6573
722335.273	4294328.156	8984	04-Nov-13	11042013-001.SSF	140812.5298	6574
722335.282	4294328.41	9081	04-Nov-13	11042013-001.SSF	140813.4692	6575
722335.219	4294328.724	8513	04-Nov-13	11042013-001.SSF	140814.5059	6576
722335.177	4294328.91	8846	04-Nov-13	11042013-001.SSF	140815.4512	6577
722335.012	4294329.186	9341	04-Nov-13	11042013-001.SSF	140816.5679	6578
722334.733	4294329.577	8749	04-Nov-13	11042013-001.SSF	140817.4702	6579
722334.464	4294330.128	8679	04-Nov-13	11042013-001.SSF	140818.4819	6580
722334.25	4294330.662	9052	04-Nov-13	11042013-001.SSF	140819.4351	6581
722334.18	4294331.146	8759	04-Nov-13	11042013-001.SSF	140820.5	6582
722334.419	4294331.54	9224	04-Nov-13	11042013-001.SSF	140821.415	6583
722334.561	4294331.944	9141	04-Nov-13	11042013-001.SSF	140822.519	6584
722334.381	4294332.357	9042	04-Nov-13	11042013-001.SSF	140823.4419	6585
722334.087	4294333.118	9383	04-Nov-13	11042013-001.SSF	140824.5352	6586
722333.753	4294333.624	9395	04-Nov-13	11042013-001.SSF	140825.4351	6587
722333.385	4294334.1	8810	04-Nov-13	11042013-001.SSF	140826.5791	6588
722333.224	4294334.582	8578	04-Nov-13	11042013-001.SSF	140827.4629	6589
722332.868	4294334.835	9190	04-Nov-13	11042013-001.SSF	140828.4551	6590
722332.299	4294334.891	8889	04-Nov-13	11042013-001.SSF	140829.458	6591
722332.033	4294335.266	8330	04-Nov-13	11042013-001.SSF	140830.4858	6592
722331.992	4294335.446	8495	04-Nov-13	11042013-001.SSF	140831.4971	6593
722331.886	4294335.452	8844	04-Nov-13	11042013-001.SSF	140832.4888	6594

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722331.689	4294335.741	8904	04-Nov-13	11042013-001.SSF	140833.396	6595
722331.197	4294336.316	8444	04-Nov-13	11042013-001.SSF	140834.522	6596
722331.151	4294336.695	8762	04-Nov-13	11042013-001.SSF	140835.4082	6597
722331.757	4294337.329	9023	04-Nov-13	11042013-001.SSF	140836.521	6598
722331.997	4294337.867	8690	04-Nov-13	11042013-001.SSF	140837.4629	6599
722331.828	4294338.557	8646	04-Nov-13	11042013-001.SSF	140838.4932	6600
722331.795	4294339.384	8298	04-Nov-13	11042013-001.SSF	140839.3872	6601
722331.798	4294340.458	8778	04-Nov-13	11042013-001.SSF	140840.4878	6602
722331.533	4294341.314	8027	04-Nov-13	11042013-001.SSF	140841.4849	6603
722331.159	4294342.185	8580	04-Nov-13	11042013-001.SSF	140842.4961	6604
722330.852	4294342.936	8445	04-Nov-13	11042013-001.SSF	140843.3979	6605
722330.494	4294343.626	9086	04-Nov-13	11042013-001.SSF	140844.4932	6606
722330.126	4294344.046	8711	04-Nov-13	11042013-001.SSF	140845.417	6607
722329.526	4294344.415	8590	04-Nov-13	11042013-001.SSF	140846.5649	6608
722329.009	4294344.494	8754	04-Nov-13	11042013-001.SSF	140847.458	6609
722328.512	4294344.507	8936	04-Nov-13	11042013-001.SSF	140848.4751	6610
722328.253	4294344.602	8784	04-Nov-13	11042013-001.SSF	140849.4561	6611
722328.232	4294344.584	8939	04-Nov-13	11042013-001.SSF	140850.478	6612
722328.18	4294344.462	8440	04-Nov-13	11042013-001.SSF	140851.3481	6613
722327.982	4294344.399	8482	04-Nov-13	11042013-001.SSF	140852.438	6614
722327.791	4294344.391	8956	04-Nov-13	11042013-001.SSF	140853.438	6615
722327.589	4294344.305	8908	04-Nov-13	11042013-001.SSF	140854.5161	6616
722327.577	4294344.231	9308	04-Nov-13	11042013-001.SSF	140855.3701	6617
722327.713	4294344.059	8993	04-Nov-13	11042013-001.SSF	140856.438	6618
722327.826	4294343.745	8816	04-Nov-13	11042013-001.SSF	140857.4092	6619
722328.058	4294343.486	8326	04-Nov-13	11042013-001.SSF	140858.46	6620
722328.28	4294343.466	8658	04-Nov-13	11042013-001.SSF	140859.3999	6621
722328.327	4294343.482	8890	04-Nov-13	11042013-001.SSF	140860.5352	6622
722328.287	4294343.425	8773	04-Nov-13	11042013-001.SSF	140861.397	6623
722328.299	4294343.339	8017	04-Nov-13	11042013-001.SSF	140862.4492	6624
722328.326	4294343.257	8755	04-Nov-13	11042013-001.SSF	140863.4468	6625
722328.303	4294343.201	8517	04-Nov-13	11042013-001.SSF	140864.541	6626
722328.192	4294343.214	8908	04-Nov-13	11042013-001.SSF	140865.3931	6627
722327.952	4294343.188	8716	04-Nov-13	11042013-001.SSF	140866.5029	6628
722327.883	4294343.151	8660	04-Nov-13	11042013-001.SSF	140867.3672	6629
722327.906	4294343.131	8898	04-Nov-13	11042013-001.SSF	140868.4229	6630
722327.899	4294343.154	8665	04-Nov-13	11042013-001.SSF	140869.3398	6631
722327.871	4294343.192	8504	04-Nov-13	11042013-001.SSF	140870.4761	6632
722327.981	4294343.276	8751	04-Nov-13	11042013-001.SSF	140871.4209	6633
722328.235	4294343.434	8507	04-Nov-13	11042013-001.SSF	140872.5332	6634
722328.397	4294343.654	8955	04-Nov-13	11042013-001.SSF	140873.498	6635
722328.299	4294344.053	9110	04-Nov-13	11042013-001.SSF	140874.5059	6636
722328.034	4294344.533	9054	04-Nov-13	11042013-001.SSF	140875.373	6637
722327.812	4294345.281	9390	04-Nov-13	11042013-001.SSF	140876.4438	6638
722327.752	4294346.038	8987	04-Nov-13	11042013-001.SSF	140877.376	6639
722327.653	4294346.738	8617	04-Nov-13	11042013-001.SSF	140878.4609	6640
722327.516	4294347.04	8267	04-Nov-13	11042013-001.SSF	140879.4009	6641

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722327.386	4294347.213	8288	04-Nov-13	11042013-001.SSF	140880.4009	6642
722327.124	4294347.545	8479	04-Nov-13	11042013-001.SSF	140881.3672	6643
722326.508	4294348.05	9337	04-Nov-13	11042013-001.SSF	140882.4458	6644
722325.936	4294348.337	9002	04-Nov-13	11042013-001.SSF	140883.3281	6645
722325.454	4294348.708	9218	04-Nov-13	11042013-001.SSF	140884.3989	6646
722325.187	4294349.357	9145	04-Nov-13	11042013-001.SSF	140885.3872	6647
722325.038	4294350.171	8512	04-Nov-13	11042013-001.SSF	140886.5049	6648
722325.035	4294350.78	8793	04-Nov-13	11042013-001.SSF	140887.354	6649
722324.907	4294351.698	8666	04-Nov-13	11042013-001.SSF	140888.498	6650
722324.632	4294352.288	8474	04-Nov-13	11042013-001.SSF	140889.356	6651
722324.28	4294352.778	8704	04-Nov-13	11042013-001.SSF	140890.4639	6652
722323.821	4294353.104	9036	04-Nov-13	11042013-001.SSF	140891.3779	6653
722322.952	4294353.31	8915	04-Nov-13	11042013-001.SSF	140892.457	6654
722322.221	4294353.634	8599	04-Nov-13	11042013-001.SSF	140893.394	6655
722321.47	4294354.301	9052	04-Nov-13	11042013-001.SSF	140894.437	6656
722320.738	4294354.934	8249	04-Nov-13	11042013-001.SSF	140895.3521	6657
722319.866	4294355.289	9095	04-Nov-13	11042013-001.SSF	140896.4131	6658
722319.434	4294355.517	9443	04-Nov-13	11042013-001.SSF	140897.4248	6659
722319.239	4294356.061	9309	04-Nov-13	11042013-001.SSF	140898.4619	6660
722318.935	4294356.566	9534	04-Nov-13	11042013-001.SSF	140899.3892	6661
722318.549	4294356.959	9637	04-Nov-13	11042013-001.SSF	140900.4819	6662
722318.301	4294357.199	9711	04-Nov-13	11042013-001.SSF	140901.3701	6663
722318.172	4294357.592	8912	04-Nov-13	11042013-001.SSF	140902.439	6664
722318.109	4294358.081	8726	04-Nov-13	11042013-001.SSF	140903.4038	6665
722317.725	4294358.741	9146	04-Nov-13	11042013-001.SSF	140904.502	6666
722317.34	4294359.062	8924	04-Nov-13	11042013-001.SSF	140905.4209	6667
722317.157	4294359.441	8837	04-Nov-13	11042013-001.SSF	140906.5269	6668
722316.968	4294359.902	8466	04-Nov-13	11042013-001.SSF	140907.4238	6669
722316.472	4294360.501	8354	04-Nov-13	11042013-001.SSF	140908.4609	6670
722315.881	4294361.149	8119	04-Nov-13	11042013-001.SSF	140909.4468	6671
722315.427	4294361.662	7994	04-Nov-13	11042013-001.SSF	140910.4282	6672
722315.207	4294361.935	7632	04-Nov-13	11042013-001.SSF	140911.3311	6673
722315.089	4294362.208	6978	04-Nov-13	11042013-001.SSF	140912.4629	6674
722314.825	4294362.495	6977	04-Nov-13	11042013-001.SSF	140913.3799	6675
722314.093	4294363.135	7577	04-Nov-13	11042013-001.SSF	140914.4888	6676
722313.454	4294363.733	7022	04-Nov-13	11042013-001.SSF	140915.3301	6677
722312.849	4294364.292	7400	04-Nov-13	11042013-001.SSF	140916.4761	6678
722312.585	4294364.545	6720	04-Nov-13	11042013-001.SSF	140917.4058	6679
722312.3	4294364.745	7125	04-Nov-13	11042013-001.SSF	140918.439	6680
722311.764	4294364.946	7532	04-Nov-13	11042013-001.SSF	140919.3618	6681
722310.75	4294365.451	7252	04-Nov-13	11042013-001.SSF	140920.5122	6682
722310.218	4294366.002	7799	04-Nov-13	11042013-001.SSF	140921.4458	6683
722309.889	4294366.422	7297	04-Nov-13	11042013-001.SSF	140922.541	6684
722309.499	4294366.601	7644	04-Nov-13	11042013-001.SSF	140923.4902	6685
722309.082	4294366.795	7547	04-Nov-13	11042013-001.SSF	140924.4912	6686
722308.864	4294367.026	6698	04-Nov-13	11042013-001.SSF	140925.3711	6687
722308.67	4294367.549	6917	04-Nov-13	11042013-001.SSF	140926.5142	6688

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722308.445	4294368.075	7071	04-Nov-13	11042013-001.SSF	140927.4609	6689
722308.073	4294368.705	7360	04-Nov-13	11042013-001.SSF	140928.5088	6690
722307.58	4294369.32	7170	04-Nov-13	11042013-001.SSF	140929.373	6691
722306.765	4294370.057	7325	04-Nov-13	11042013-001.SSF	140930.4829	6692
722306.015	4294370.562	7158	04-Nov-13	11042013-001.SSF	140931.4521	6693
722305.558	4294371.062	7701	04-Nov-13	11042013-001.SSF	140932.4771	6694
722305.4	4294371.42	7654	04-Nov-13	11042013-001.SSF	140933.3921	6695
722305.307	4294371.635	7635	04-Nov-13	11042013-001.SSF	140934.541	6696
722305.294	4294371.717	7850	04-Nov-13	11042013-001.SSF	140935.3862	6697
722305.245	4294371.509	7235	04-Nov-13	11042013-001.SSF	140936.5068	6698
722305.226	4294371.333	7886	04-Nov-13	11042013-001.SSF	140937.439	6699
722305.237	4294371.155	7465	04-Nov-13	11042013-001.SSF	140938.4248	6700
722305.298	4294370.995	6794	04-Nov-13	11042013-001.SSF	140939.3691	6701
722305.424	4294371.014	6671	04-Nov-13	11042013-001.SSF	140940.5	6702
722305.49	4294370.988	6918	04-Nov-13	11042013-001.SSF	140941.3979	6703
722305.566	4294370.946	7198	04-Nov-13	11042013-001.SSF	140942.5059	6704
722305.63	4294370.948	7499	04-Nov-13	11042013-001.SSF	140943.3911	6705
722305.682	4294370.918	7466	04-Nov-13	11042013-001.SSF	140944.5298	6706
722305.706	4294370.906	7519	04-Nov-13	11042013-001.SSF	140945.394	6707
722305.737	4294370.882	6881	04-Nov-13	11042013-001.SSF	140946.4492	6708
722305.747	4294370.769	6750	04-Nov-13	11042013-001.SSF	140947.4102	6709
722305.723	4294370.617	7442	04-Nov-13	11042013-001.SSF	140948.4268	6710
722305.766	4294370.595	7253	04-Nov-13	11042013-001.SSF	140949.4209	6711
722305.819	4294370.616	6787	04-Nov-13	11042013-001.SSF	140950.5059	6712
722305.775	4294370.622	7283	04-Nov-13	11042013-001.SSF	140951.4258	6713
722305.714	4294370.65	7914	04-Nov-13	11042013-001.SSF	140952.4312	6714
722305.725	4294370.769	7534	04-Nov-13	11042013-001.SSF	140953.4238	6715
722305.734	4294370.79	7283	04-Nov-13	11042013-001.SSF	140954.479	6716
722305.64	4294370.684	7629	04-Nov-13	11042013-001.SSF	140955.436	6717
722305.572	4294370.868	7463	04-Nov-13	11042013-001.SSF	140956.4858	6718
722305.55	4294371.291	6756	04-Nov-13	11042013-001.SSF	140957.458	6719
722305.347	4294371.67	6462	04-Nov-13	11042013-001.SSF	140958.4761	6720
722304.971	4294371.974	7362	04-Nov-13	11042013-001.SSF	140959.4028	6721
722304.425	4294372.474	7134	04-Nov-13	11042013-001.SSF	140960.542	6722
722304.003	4294372.791	7095	04-Nov-13	11042013-001.SSF	140961.4038	6723
722303.488	4294372.848	6676	04-Nov-13	11042013-001.SSF	140962.4961	6724
722303.203	4294372.783	6785	04-Nov-13	11042013-001.SSF	140963.4351	6725
722302.941	4294372.625	6321	04-Nov-13	11042013-001.SSF	140964.5391	6726
722302.843	4294372.611	6578	04-Nov-13	11042013-001.SSF	140965.4531	6727
722302.835	4294373.013	6625	04-Nov-13	11042013-001.SSF	140966.4912	6728
722302.572	4294373.714	6119	04-Nov-13	11042013-001.SSF	140967.4351	6729
722302.024	4294374.748	5602	04-Nov-13	11042013-001.SSF	140968.5049	6730
722301.751	4294375.736	5761	04-Nov-13	11042013-001.SSF	140969.4189	6731
722301.638	4294376.8	5483	04-Nov-13	11042013-001.SSF	140970.4409	6732
722301.343	4294377.714	5244	04-Nov-13	11042013-001.SSF	140971.4028	6733
722300.763	4294378.686	5192	04-Nov-13	11042013-001.SSF	140972.4912	6734
722300.391	4294379.172	5523	04-Nov-13	11042013-001.SSF	140973.3818	6735

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722300.344	4294379.354	5236	04-Nov-13	11042013-001.SSF	140974.4248	6736
722300.46	4294379.324	5255	04-Nov-13	11042013-001.SSF	140975.3428	6737
722300.534	4294379.24	5393	04-Nov-13	11042013-001.SSF	140976.4312	6738
722300.577	4294379.219	5501	04-Nov-13	11042013-001.SSF	140977.3408	6739
722300.641	4294379.26	5704	04-Nov-13	11042013-001.SSF	140978.4351	6740
722300.693	4294379.313	5541	04-Nov-13	11042013-001.SSF	140979.3281	6741
722300.683	4294379.501	5464	04-Nov-13	11042013-001.SSF	140980.4321	6742
722300.587	4294379.749	5226	04-Nov-13	11042013-001.SSF	140981.3691	6743
722300.538	4294379.704	5085	04-Nov-13	11042013-001.SSF	140982.4502	6744
722300.563	4294379.567	5095	04-Nov-13	11042013-001.SSF	140983.313	6745
722300.644	4294379.59	4936	04-Nov-13	11042013-001.SSF	140984.438	6746
722300.702	4294379.607	4621	04-Nov-13	11042013-001.SSF	140985.436	6747
722300.757	4294379.623	5089	04-Nov-13	11042013-001.SSF	140986.4961	6748
722300.805	4294379.659	5458	04-Nov-13	11042013-001.SSF	140987.436	6749
722300.844	4294379.678	4952	04-Nov-13	11042013-001.SSF	140988.459	6750
722300.89	4294379.722	5291	04-Nov-13	11042013-001.SSF	140989.3789	6751
722300.82	4294379.837	5046	04-Nov-13	11042013-001.SSF	140990.4419	6752
722300.434	4294379.944	5246	04-Nov-13	11042013-001.SSF	140991.3638	6753
722299.854	4294380.194	5238	04-Nov-13	11042013-001.SSF	140992.375	6754
722299.408	4294380.712	5489	04-Nov-13	11042013-001.SSF	140993.291	6755
722298.551	4294381.739	5592	04-Nov-13	11042013-001.SSF	140994.4048	6756
722297.639	4294382.756	5793	04-Nov-13	11042013-001.SSF	140995.3218	6757
722296.578	4294384.027	5448	04-Nov-13	11042013-001.SSF	140996.457	6758
722295.679	4294385.067	6072	04-Nov-13	11042013-001.SSF	140997.3721	6759
722294.539	4294386.13	6040	04-Nov-13	11042013-001.SSF	140998.375	6760
722293.39	4294386.994	6240	04-Nov-13	11042013-001.SSF	140999.3662	6761
722292.47	4294387.732	6187	04-Nov-13	11042013-001.SSF	141000.3882	6762
722291.915	4294388.401	5910	04-Nov-13	11042013-001.SSF	141001.3232	6763
722291.518	4294389.55	6429	04-Nov-13	11042013-001.SSF	141002.4678	6764
722291.295	4294390.529	6399	04-Nov-13	11042013-001.SSF	141003.376	6765
722290.819	4294391.356	6224	04-Nov-13	11042013-001.SSF	141004.4448	6766
722290.038	4294391.844	6111	04-Nov-13	11042013-001.SSF	141005.4131	6767
722289.152	4294392.379	6160	04-Nov-13	11042013-001.SSF	141006.4482	6768
722288.618	4294393.087	6697	04-Nov-13	11042013-001.SSF	141007.4531	6769
722288.304	4294393.65	6572	04-Nov-13	11042013-001.SSF	141008.4761	6770
722287.856	4294393.737	6637	04-Nov-13	11042013-001.SSF	141009.4531	6771
722287.583	4294393.635	6125	04-Nov-13	11042013-001.SSF	141010.4302	6772
722287.945	4294393.757	6056	04-Nov-13	11042013-001.SSF	141011.4141	6773
722288.077	4294393.991	6444	04-Nov-13	11042013-001.SSF	141012.4639	6774
722287.537	4294394.06	6887	04-Nov-13	11042013-001.SSF	141013.3721	6775
722287.005	4294393.916	6551	04-Nov-13	11042013-001.SSF	141014.4971	6776
722286.93	4294393.868	6602	04-Nov-13	11042013-001.SSF	141015.4331	6777
722287.021	4294393.991	6556	04-Nov-13	11042013-001.SSF	141016.4458	6778
722287.119	4294394.051	6463	04-Nov-13	11042013-001.SSF	141017.4419	6779
722287.148	4294394.03	6313	04-Nov-13	11042013-001.SSF	141018.4561	6780
722287.139	4294394.041	6416	04-Nov-13	11042013-001.SSF	141019.4609	6781
722287.155	4294394.096	6699	04-Nov-13	11042013-001.SSF	141020.4429	6782

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722287.215	4294394.128	5988	04-Nov-13	11042013-001.SSF	141021.3711	6783
722287.252	4294394.119	5753	04-Nov-13	11042013-001.SSF	141022.4839	6784
722287.244	4294394.084	6221	04-Nov-13	11042013-001.SSF	141023.3799	6785
722287.236	4294394.056	6289	04-Nov-13	11042013-001.SSF	141024.4702	6786
722287.222	4294394.046	5975	04-Nov-13	11042013-001.SSF	141025.4058	6787
722287.198	4294394.058	6151	04-Nov-13	11042013-001.SSF	141026.5068	6788
722287.184	4294394.06	6325	04-Nov-13	11042013-001.SSF	141027.4082	6789
722287.278	4294394.11	5920	04-Nov-13	11042013-001.SSF	141028.4932	6790
722287.389	4294394.183	5677	04-Nov-13	11042013-001.SSF	141029.417	6791
722287.329	4294394.048	5766	04-Nov-13	11042013-001.SSF	141030.4189	6792
722287.138	4294393.642	5988	04-Nov-13	11042013-001.SSF	141031.418	6793
722286.93	4294393.21	6143	04-Nov-13	11042013-001.SSF	141032.501	6794
722286.71	4294392.831	6523	04-Nov-13	11042013-001.SSF	141033.3672	6795
722286.337	4294392.273	6414	04-Nov-13	11042013-001.SSF	141034.4692	6796
722286.135	4294392.053	6668	04-Nov-13	11042013-001.SSF	141035.353	6797
722286.091	4294392.05	6390	04-Nov-13	11042013-001.SSF	141036.395	6798
722286.027	4294391.969	6662	04-Nov-13	11042013-001.SSF	141037.3218	6799
722286	4294391.957	6402	04-Nov-13	11042013-001.SSF	141038.4409	6800
722286.002	4294391.991	6608	04-Nov-13	11042013-001.SSF	141039.2852	6801
722285.977	4294391.958	6770	04-Nov-13	11042013-001.SSF	141040.3911	6802
722285.973	4294391.979	6253	04-Nov-13	11042013-001.SSF	141041.374	6803
722285.94	4294391.948	6187	04-Nov-13	11042013-001.SSF	141042.4092	6804
722285.94	4294391.994	5812	04-Nov-13	11042013-001.SSF	141043.394	6805
722285.94	4294392.027	5504	04-Nov-13	11042013-001.SSF	141044.436	6806
722286.005	4294392.138	5526	04-Nov-13	11042013-001.SSF	141045.3721	6807
722286.177	4294392.357	5726	04-Nov-13	11042013-001.SSF	141046.4312	6808
722286.256	4294392.435	5921	04-Nov-13	11042013-001.SSF	141047.3682	6809
722286.223	4294392.409	6450	04-Nov-13	11042013-001.SSF	141048.4238	6810
722286.211	4294392.361	6298	04-Nov-13	11042013-001.SSF	141049.3589	6811
722286.205	4294392.228	6543	04-Nov-13	11042013-001.SSF	141050.3491	6812
722286.167	4294392.131	6657	04-Nov-13	11042013-001.SSF	141051.3521	6813
722286.123	4294392.122	6572	04-Nov-13	11042013-001.SSF	141052.397	6814
722286.109	4294392.142	6217	04-Nov-13	11042013-001.SSF	141053.377	6815
722286.122	4294392.179	6234	04-Nov-13	11042013-001.SSF	141054.3721	6816
722286.138	4294392.197	6132	04-Nov-13	11042013-001.SSF	141055.353	6817
722286.145	4294392.221	6426	04-Nov-13	11042013-001.SSF	141056.4658	6818
722286.129	4294392.223	6380	04-Nov-13	11042013-001.SSF	141057.3809	6819
722286.11	4294392.225	6160	04-Nov-13	11042013-001.SSF	141058.479	6820
722286.105	4294392.218	6457	04-Nov-13	11042013-001.SSF	141059.3472	6821
722286.108	4294392.219	6745	04-Nov-13	11042013-001.SSF	141060.4609	6822
722286.114	4294392.224	6246	04-Nov-13	11042013-001.SSF	141061.3408	6823
722286.131	4294392.229	6446	04-Nov-13	11042013-001.SSF	141062.459	6824
722286.246	4294392.258	6146	04-Nov-13	11042013-001.SSF	141063.4028	6825
722286.603	4294392.2	6464	04-Nov-13	11042013-001.SSF	141064.4521	6826
722287.049	4294391.972	6419	04-Nov-13	11042013-001.SSF	141065.355	6827
722287.693	4294391.668	6363	04-Nov-13	11042013-001.SSF	141066.4019	6828
722288.269	4294391.465	6691	04-Nov-13	11042013-001.SSF	141067.3379	6829

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.649	4294391.397	6794	04-Nov-13	11042013-001.SSF	141068.3691	6830
722288.764	4294391.609	6634	04-Nov-13	11042013-001.SSF	141069.3379	6831
722288.694	4294391.751	6296	04-Nov-13	11042013-001.SSF	141070.3979	6832
722288.643	4294391.728	6001	04-Nov-13	11042013-001.SSF	141071.3208	6833
722288.611	4294391.675	6233	04-Nov-13	11042013-001.SSF	141072.3652	6834
722288.602	4294391.679	6026	04-Nov-13	11042013-001.SSF	141073.2842	6835
722288.643	4294391.707	5887	04-Nov-13	11042013-001.SSF	141074.3711	6836
722288.695	4294391.706	6094	04-Nov-13	11042013-001.SSF	141075.3452	6837
722288.688	4294391.737	5722	04-Nov-13	11042013-001.SSF	141076.3862	6838
722288.672	4294391.752	5986	04-Nov-13	11042013-001.SSF	141077.3311	6839
722288.681	4294391.763	6067	04-Nov-13	11042013-001.SSF	141078.394	6840
722288.678	4294391.787	5572	04-Nov-13	11042013-001.SSF	141079.3281	6841
722288.653	4294391.788	5534	04-Nov-13	11042013-001.SSF	141080.4502	6842
722288.643	4294391.798	5648	04-Nov-13	11042013-001.SSF	141081.3188	6843
722288.644	4294391.808	5712	04-Nov-13	11042013-001.SSF	141082.4492	6844
722288.63	4294391.794	5440	04-Nov-13	11042013-001.SSF	141083.4019	6845
722288.601	4294391.772	5625	04-Nov-13	11042013-001.SSF	141084.4482	6846
722288.585	4294391.762	5624	04-Nov-13	11042013-001.SSF	141085.3618	6847
722288.584	4294391.743	5796	04-Nov-13	11042013-001.SSF	141086.377	6848
722288.601	4294391.729	5712	04-Nov-13	11042013-001.SSF	141087.2842	6849
722288.623	4294391.717	5696	04-Nov-13	11042013-001.SSF	141088.4248	6850
722288.627	4294391.721	5844	04-Nov-13	11042013-001.SSF	141089.334	6851
722288.626	4294391.715	6024	04-Nov-13	11042013-001.SSF	141090.3711	6852
722288.598	4294391.746	5579	04-Nov-13	11042013-001.SSF	141091.3359	6853
722288.531	4294391.779	5800	04-Nov-13	11042013-001.SSF	141092.439	6854
722288.513	4294391.731	5872	04-Nov-13	11042013-001.SSF	141093.3428	6855
722288.493	4294391.592	5643	04-Nov-13	11042013-001.SSF	141094.374	6856
722288.452	4294391.567	5739	04-Nov-13	11042013-001.SSF	141095.3672	6857
722288.483	4294391.725	5576	04-Nov-13	11042013-001.SSF	141096.4141	6858
722288.523	4294391.755	5694	04-Nov-13	11042013-001.SSF	141097.4302	6859
722288.558	4294391.693	5647	04-Nov-13	11042013-001.SSF	141098.4331	6860
722288.621	4294391.723	6056	04-Nov-13	11042013-001.SSF	141099.3418	6861
722288.724	4294391.782	5537	04-Nov-13	11042013-001.SSF	141100.4868	6862
722288.773	4294391.771	6189	04-Nov-13	11042013-001.SSF	141101.3691	6863
722288.764	4294391.753	6294	04-Nov-13	11042013-001.SSF	141102.4141	6864
722288.727	4294391.744	6240	04-Nov-13	11042013-001.SSF	141103.4678	6865
722288.713	4294391.768	6165	04-Nov-13	11042013-001.SSF	141104.415	6866
722288.705	4294391.782	5605	04-Nov-13	11042013-001.SSF	141105.3232	6867
722288.676	4294391.774	5800	04-Nov-13	11042013-001.SSF	141106.4502	6868
722288.661	4294391.768	5587	04-Nov-13	11042013-001.SSF	141107.396	6869
722288.655	4294391.772	5378	04-Nov-13	11042013-001.SSF	141108.4048	6870
722288.638	4294391.766	5222	04-Nov-13	11042013-001.SSF	141109.3198	6871
722288.6	4294391.73	5525	04-Nov-13	11042013-001.SSF	141110.4321	6872
722288.579	4294391.706	5523	04-Nov-13	11042013-001.SSF	141111.3579	6873
722288.563	4294391.643	6219	04-Nov-13	11042013-001.SSF	141112.4312	6874
722288.538	4294391.556	5898	04-Nov-13	11042013-001.SSF	141113.3481	6875
722288.533	4294391.509	5447	04-Nov-13	11042013-001.SSF	141114.3652	6876

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.553	4294391.524	5599	04-Nov-13	11042013-001.SSF	141115.4409	6877
722288.533	4294391.481	5482	04-Nov-13	11042013-001.SSF	141116.4678	6878
722288.525	4294391.463	5708	04-Nov-13	11042013-001.SSF	141117.3882	6879
722288.512	4294391.464	5431	04-Nov-13	11042013-001.SSF	141118.4561	6880
722288.465	4294391.424	5372	04-Nov-13	11042013-001.SSF	141119.3652	6881
722288.401	4294391.358	5579	04-Nov-13	11042013-001.SSF	141120.3521	6882
722288.353	4294391.285	5711	04-Nov-13	11042013-001.SSF	141121.3599	6883
722288.359	4294391.266	5695	04-Nov-13	11042013-001.SSF	141122.438	6884
722288.357	4294391.25	6300	04-Nov-13	11042013-001.SSF	141123.3281	6885
722288.333	4294391.191	5884	04-Nov-13	11042013-001.SSF	141124.438	6886
722288.313	4294391.143	6265	04-Nov-13	11042013-001.SSF	141125.312	6887
722288.269	4294391.102	6254	04-Nov-13	11042013-001.SSF	141126.4219	6888
722288.228	4294391.064	6060	04-Nov-13	11042013-001.SSF	141127.3262	6889
722288.219	4294391.025	5898	04-Nov-13	11042013-001.SSF	141128.439	6890
722288.241	4294391.034	6393	04-Nov-13	11042013-001.SSF	141129.3379	6891
722288.271	4294391.041	6393	04-Nov-13	11042013-001.SSF	141130.3379	6892
722288.303	4294391.037	6228	04-Nov-13	11042013-001.SSF	141131.3579	6893
722288.321	4294391.041	6586	04-Nov-13	11042013-001.SSF	141132.3789	6894
722288.317	4294391.019	6375	04-Nov-13	11042013-001.SSF	141133.314	6895
722288.315	4294390.998	6375	04-Nov-13	11042013-001.SSF	141134.332	6896
722288.314	4294390.978	6113	04-Nov-13	11042013-001.SSF	141135.3511	6897
722288.309	4294390.971	6596	04-Nov-13	11042013-001.SSF	141136.3599	6898
722288.302	4294390.959	6358	04-Nov-13	11042013-001.SSF	141137.2808	6899
722288.292	4294390.958	6149	04-Nov-13	11042013-001.SSF	141138.4019	6900
722288.286	4294390.955	5933	04-Nov-13	11042013-001.SSF	141139.3281	6901
722288.282	4294390.958	5655	04-Nov-13	11042013-001.SSF	141140.4072	6902
722288.285	4294390.958	6053	04-Nov-13	11042013-001.SSF	141141.3071	6903
722288.286	4294390.958	5970	04-Nov-13	11042013-001.SSF	141142.4072	6904
722288.284	4294390.967	6238	04-Nov-13	11042013-001.SSF	141143.3008	6905
722288.288	4294390.966	6711	04-Nov-13	11042013-001.SSF	141144.4639	6906
722288.294	4294390.981	6377	04-Nov-13	11042013-001.SSF	141145.353	6907
722288.283	4294390.988	5957	04-Nov-13	11042013-001.SSF	141146.373	6908
722288.265	4294390.993	5833	04-Nov-13	11042013-001.SSF	141147.3081	6909
722288.253	4294390.996	5756	04-Nov-13	11042013-001.SSF	141148.3989	6910
722288.251	4294391.002	5803	04-Nov-13	11042013-001.SSF	141149.3232	6911
722288.262	4294391	5896	04-Nov-13	11042013-001.SSF	141150.3652	6912
722288.294	4294391.008	5619	04-Nov-13	11042013-001.SSF	141151.3311	6913
722288.305	4294391.08	5861	04-Nov-13	11042013-001.SSF	141152.3589	6914
722288.251	4294391.063	5741	04-Nov-13	11042013-001.SSF	141153.3218	6915
722288.151	4294390.899	5944	04-Nov-13	11042013-001.SSF	141154.3618	6916
722288.061	4294390.769	5549	04-Nov-13	11042013-001.SSF	141155.353	6917
722288.056	4294390.814	5461	04-Nov-13	11042013-001.SSF	141156.3901	6918
722288.164	4294390.942	5419	04-Nov-13	11042013-001.SSF	141157.3521	6919
722288.226	4294390.919	5306	04-Nov-13	11042013-001.SSF	141158.377	6920
722288.224	4294390.848	5557	04-Nov-13	11042013-001.SSF	141159.3999	6921
722288.237	4294390.856	5938	04-Nov-13	11042013-001.SSF	141160.4399	6922
722288.237	4294390.857	6160	04-Nov-13	11042013-001.SSF	141161.3638	6923

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722288.247	4294390.877	6067	04-Nov-13	11042013-001.SSF	141162.395	6924
722288.258	4294390.913	6090	04-Nov-13	11042013-001.SSF	141163.3711	6925
722288.263	4294390.964	5766	04-Nov-13	11042013-001.SSF	141164.4209	6926
722288.269	4294390.998	6108	04-Nov-13	11042013-001.SSF	141165.3599	6927
722288.273	4294391.018	6248	04-Nov-13	11042013-001.SSF	141166.397	6928
722288.278	4294391.026	6102	04-Nov-13	11042013-001.SSF	141167.3491	6929
722288.288	4294391.026	5997	04-Nov-13	11042013-001.SSF	141168.3799	6930
722288.302	4294391.02	5968	04-Nov-13	11042013-001.SSF	141169.4199	6931
722288.308	4294391.029	5877	04-Nov-13	11042013-001.SSF	141170.4121	6932
722288.312	4294391.02	5818	04-Nov-13	11042013-001.SSF	141171.394	6933
722288.336	4294390.994	5560	04-Nov-13	11042013-001.SSF	141172.4331	6934
722288.372	4294390.987	5782	04-Nov-13	11042013-001.SSF	141173.3838	6935
722288.377	4294391.013	5810	04-Nov-13	11042013-001.SSF	141174.4702	6936
722288.363	4294391.024	5810	04-Nov-13	11042013-001.SSF	141175.3628	6937
722288.352	4294391.027	6111	04-Nov-13	11042013-001.SSF	141176.4072	6938
722288.334	4294391.024	5777	04-Nov-13	11042013-001.SSF	141177.3569	6939
722288.313	4294391.031	5695	04-Nov-13	11042013-001.SSF	141178.3892	6940
722288.308	4294391.035	5835	04-Nov-13	11042013-001.SSF	141179.3159	6941
722288.31	4294391.037	5675	04-Nov-13	11042013-001.SSF	141180.356	6942
722288.322	4294391.041	5082	04-Nov-13	11042013-001.SSF	141181.2729	6943
722288.326	4294391.037	5813	04-Nov-13	11042013-001.SSF	141182.3701	6944
722288.308	4294391.042	5572	04-Nov-13	11042013-001.SSF	141183.2749	6945
722288.291	4294391.05	5212	04-Nov-13	11042013-001.SSF	141184.3838	6946
722288.289	4294391.054	5587	04-Nov-13	11042013-001.SSF	141185.3291	6947
722288.304	4294391.053	5700	04-Nov-13	11042013-001.SSF	141186.335	6948
722288.322	4294391.059	5321	04-Nov-13	11042013-001.SSF	141187.3369	6949
722288.323	4294391.069	5250	04-Nov-13	11042013-001.SSF	141188.3398	6950
722288.318	4294391.096	5361	04-Nov-13	11042013-001.SSF	141189.3521	6951
722288.338	4294391.196	5880	04-Nov-13	11042013-001.SSF	141190.4189	6952
722288.368	4294391.345	5707	04-Nov-13	11042013-001.SSF	141191.3662	6953
722288.404	4294391.383	5370	04-Nov-13	11042013-001.SSF	141192.4302	6954
722288.471	4294391.302	5368	04-Nov-13	11042013-001.SSF	141193.4258	6955
722288.496	4294391.309	5734	04-Nov-13	11042013-001.SSF	141194.4438	6956
722288.501	4294391.334	5985	04-Nov-13	11042013-001.SSF	141195.3789	6957
722288.549	4294391.322	6239	04-Nov-13	11042013-001.SSF	141196.333	6958
722288.568	4294391.309	6104	04-Nov-13	11042013-001.SSF	141197.356	6959
722288.545	4294391.264	6089	04-Nov-13	11042013-001.SSF	141198.4629	6960
722288.533	4294391.164	6590	04-Nov-13	11042013-001.SSF	141199.4209	6961
722288.547	4294391.114	6204	04-Nov-13	11042013-001.SSF	141200.4351	6962
722288.604	4294391.226	6377	04-Nov-13	11042013-001.SSF	141201.3252	6963
722288.637	4294391.422	5927	04-Nov-13	11042013-001.SSF	141202.4492	6964
722288.59	4294391.403	5569	04-Nov-13	11042013-001.SSF	141203.4082	6965
722288.539	4294391.35	5675	04-Nov-13	11042013-001.SSF	141204.4541	6966
722288.509	4294391.335	5419	04-Nov-13	11042013-001.SSF	141205.3721	6967
722288.485	4294391.316	5658	04-Nov-13	11042013-001.SSF	141206.4111	6968
722288.473	4294391.294	5793	04-Nov-13	11042013-001.SSF	141207.3208	6969
722288.45	4294391.282	5853	04-Nov-13	11042013-001.SSF	141208.3838	6970

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722288.463	4294391.321	5962	04-Nov-13	11042013-001.SSF	141209.397	6971
722288.547	4294391.367	6676	04-Nov-13	11042013-001.SSF	141210.3501	6972
722288.626	4294391.367	6373	04-Nov-13	11042013-001.SSF	141211.377	6973
722288.674	4294391.452	6277	04-Nov-13	11042013-001.SSF	141212.3999	6974
722288.686	4294391.532	6156	04-Nov-13	11042013-001.SSF	141213.3359	6975
722288.615	4294391.463	6132	04-Nov-13	11042013-001.SSF	141214.3691	6976
722288.579	4294391.421	6007	04-Nov-13	11042013-001.SSF	141215.3481	6977
722288.565	4294391.398	5434	04-Nov-13	11042013-001.SSF	141216.3901	6978
722288.552	4294391.363	5419	04-Nov-13	11042013-001.SSF	141217.3281	6979
722288.496	4294391.281	5725	04-Nov-13	11042013-001.SSF	141218.3608	6980
722288.433	4294391.207	5673	04-Nov-13	11042013-001.SSF	141219.2891	6981
722288.402	4294391.173	5898	04-Nov-13	11042013-001.SSF	141220.3452	6982
722288.4	4294391.18	5658	04-Nov-13	11042013-001.SSF	141221.3901	6983
722288.397	4294391.187	5890	04-Nov-13	11042013-001.SSF	141222.3911	6984
722288.399	4294391.19	5405	04-Nov-13	11042013-001.SSF	141223.3579	6985
722288.406	4294391.196	5388	04-Nov-13	11042013-001.SSF	141224.3599	6986
722288.424	4294391.213	5693	04-Nov-13	11042013-001.SSF	141225.3472	6987
722288.458	4294391.234	5737	04-Nov-13	11042013-001.SSF	141226.3071	6988
722288.48	4294391.241	5822	04-Nov-13	11042013-001.SSF	141227.332	6989
722288.477	4294391.238	6140	04-Nov-13	11042013-001.SSF	141228.354	6990
722288.463	4294391.243	5921	04-Nov-13	11042013-001.SSF	141229.3242	6991
722288.457	4294391.216	5978	04-Nov-13	11042013-001.SSF	141230.355	6992
722288.451	4294391.192	6235	04-Nov-13	11042013-001.SSF	141231.2622	6993
722288.427	4294391.171	6537	04-Nov-13	11042013-001.SSF	141232.3188	6994
722288.408	4294391.171	6077	04-Nov-13	11042013-001.SSF	141233.3159	6995
722288.419	4294391.175	6051	04-Nov-13	11042013-001.SSF	141234.3521	6996
722288.426	4294391.195	5856	04-Nov-13	11042013-001.SSF	141235.377	6997
722288.419	4294391.202	5679	04-Nov-13	11042013-001.SSF	141236.3838	6998
722288.404	4294391.201	6097	04-Nov-13	11042013-001.SSF	141237.334	6999
722288.38	4294391.197	5529	04-Nov-13	11042013-001.SSF	141238.4429	7000
722288.377	4294391.207	5728	04-Nov-13	11042013-001.SSF	141239.3979	7001
722288.385	4294391.226	6064	04-Nov-13	11042013-001.SSF	141240.4292	7002
722288.382	4294391.216	5781	04-Nov-13	11042013-001.SSF	141241.355	7003
722288.374	4294391.204	5914	04-Nov-13	11042013-001.SSF	141242.437	7004
722288.374	4294391.219	5644	04-Nov-13	11042013-001.SSF	141243.3789	7005
722288.38	4294391.296	5657	04-Nov-13	11042013-001.SSF	141244.4321	7006
722288.4	4294391.427	5785	04-Nov-13	11042013-001.SSF	141245.3872	7007
722288.429	4294391.494	6314	04-Nov-13	11042013-001.SSF	141246.375	7008
722288.424	4294391.461	5966	04-Nov-13	11042013-001.SSF	141247.4141	7009
722288.383	4294391.447	6153	04-Nov-13	11042013-001.SSF	141248.4058	7010
722288.331	4294391.429	5696	04-Nov-13	11042013-001.SSF	141249.3608	7011
722288.317	4294391.438	5364	04-Nov-13	11042013-001.SSF	141250.3491	7012
722288.324	4294391.459	5837	04-Nov-13	11042013-001.SSF	141251.2998	7013
722288.322	4294391.435	6141	04-Nov-13	11042013-001.SSF	141252.3452	7014
722288.37	4294391.349	6401	04-Nov-13	11042013-001.SSF	141253.3188	7015
722288.494	4294391.259	6278	04-Nov-13	11042013-001.SSF	141254.3711	7016
722288.581	4294391.347	6104	04-Nov-13	11042013-001.SSF	141255.2778	7017

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.618	4294391.37	6591	04-Nov-13	11042013-001.SSF	141256.3491	7018
722288.593	4294391.211	6092	04-Nov-13	11042013-001.SSF	141257.2222	7019
722288.478	4294391.169	6284	04-Nov-13	11042013-001.SSF	141258.3472	7020
722288.393	4294391.153	5852	04-Nov-13	11042013-001.SSF	141259.2412	7021
722288.378	4294391.098	5774	04-Nov-13	11042013-001.SSF	141260.4038	7022
722288.374	4294391.084	6165	04-Nov-13	11042013-001.SSF	141261.3242	7023
722288.377	4294391.093	5823	04-Nov-13	11042013-001.SSF	141262.3711	7024
722288.378	4294391.101	6088	04-Nov-13	11042013-001.SSF	141263.2959	7025
722288.376	4294391.112	6199	04-Nov-13	11042013-001.SSF	141264.439	7026
722288.386	4294391.105	5737	04-Nov-13	11042013-001.SSF	141265.3618	7027
722288.391	4294391.098	5687	04-Nov-13	11042013-001.SSF	141266.3511	7028
722288.388	4294391.104	5831	04-Nov-13	11042013-001.SSF	141267.3398	7029
722288.393	4294391.115	5792	04-Nov-13	11042013-001.SSF	141268.4399	7030
722288.395	4294391.118	6378	04-Nov-13	11042013-001.SSF	141269.3882	7031
722288.391	4294391.118	6310	04-Nov-13	11042013-001.SSF	141270.3628	7032
722288.393	4294391.112	6317	04-Nov-13	11042013-001.SSF	141271.2852	7033
722288.391	4294391.111	5646	04-Nov-13	11042013-001.SSF	141272.3188	7034
722288.381	4294391.119	5824	04-Nov-13	11042013-001.SSF	141273.2739	7035
722288.378	4294391.128	6228	04-Nov-13	11042013-001.SSF	141274.2871	7036
722288.382	4294391.139	6090	04-Nov-13	11042013-001.SSF	141275.335	7037
722288.389	4294391.144	6343	04-Nov-13	11042013-001.SSF	141276.3389	7038
722288.398	4294391.152	6013	04-Nov-13	11042013-001.SSF	141277.2788	7039
722288.404	4294391.155	5812	04-Nov-13	11042013-001.SSF	141278.3809	7040
722288.412	4294391.151	5752	04-Nov-13	11042013-001.SSF	141279.2969	7041
722288.414	4294391.139	5875	04-Nov-13	11042013-001.SSF	141280.4058	7042
722288.408	4294391.126	6125	04-Nov-13	11042013-001.SSF	141281.2988	7043
722288.41	4294391.116	5942	04-Nov-13	11042013-001.SSF	141282.4092	7044
722288.416	4294391.102	6072	04-Nov-13	11042013-001.SSF	141283.2871	7045
722288.413	4294391.09	6041	04-Nov-13	11042013-001.SSF	141284.3652	7046
722288.41	4294391.092	5963	04-Nov-13	11042013-001.SSF	141285.3379	7047
722288.406	4294391.105	5896	04-Nov-13	11042013-001.SSF	141286.3828	7048
722288.404	4294391.105	5724	04-Nov-13	11042013-001.SSF	141287.2959	7049
722288.399	4294391.124	5807	04-Nov-13	11042013-001.SSF	141288.3701	7050
722288.394	4294391.126	6049	04-Nov-13	11042013-001.SSF	141289.3452	7051
722288.389	4294391.127	5952	04-Nov-13	11042013-001.SSF	141290.3921	7052
722288.393	4294391.128	5696	04-Nov-13	11042013-001.SSF	141291.3472	7053
722288.401	4294391.133	5559	04-Nov-13	11042013-001.SSF	141292.353	7054
722288.403	4294391.134	5542	04-Nov-13	11042013-001.SSF	141293.2832	7055
722288.398	4294391.152	5719	04-Nov-13	11042013-001.SSF	141294.3232	7056
722288.414	4294391.175	6082	04-Nov-13	11042013-001.SSF	141295.2612	7057
722288.409	4294391.17	5971	04-Nov-13	11042013-001.SSF	141296.3208	7058
722288.413	4294391.157	6186	04-Nov-13	11042013-001.SSF	141297.3169	7059
722288.415	4294391.162	6015	04-Nov-13	11042013-001.SSF	141298.3452	7060
722288.417	4294391.151	5835	04-Nov-13	11042013-001.SSF	141299.2842	7061
722288.417	4294391.167	6500	04-Nov-13	11042013-001.SSF	141300.396	7062
722288.418	4294391.17	6326	04-Nov-13	11042013-001.SSF	141301.3491	7063
722288.406	4294391.153	6236	04-Nov-13	11042013-001.SSF	141302.356	7064

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.413	4294391.146	6162	04-Nov-13	11042013-001.SSF	141303.3701	7065
722288.42	4294391.14	5814	04-Nov-13	11042013-001.SSF	141304.3389	7066
722288.413	4294391.128	5805	04-Nov-13	11042013-001.SSF	141305.335	7067
722288.396	4294391.121	6235	04-Nov-13	11042013-001.SSF	141306.3608	7068
722288.387	4294391.108	5915	04-Nov-13	11042013-001.SSF	141307.2402	7069
722288.378	4294391.112	5697	04-Nov-13	11042013-001.SSF	141308.3838	7070
722288.385	4294391.122	5582	04-Nov-13	11042013-001.SSF	141309.3389	7071
722288.393	4294391.126	5532	04-Nov-13	11042013-001.SSF	141310.4321	7072
722288.398	4294391.126	5384	04-Nov-13	11042013-001.SSF	141311.2832	7073
722288.393	4294391.142	5811	04-Nov-13	11042013-001.SSF	141312.3452	7074
722288.391	4294391.139	5916	04-Nov-13	11042013-001.SSF	141313.3442	7075
722288.394	4294391.129	5555	04-Nov-13	11042013-001.SSF	141314.3018	7076
722288.392	4294391.125	5397	04-Nov-13	11042013-001.SSF	141315.353	7077
722288.376	4294391.125	5608	04-Nov-13	11042013-001.SSF	141316.395	7078
722288.369	4294391.121	5472	04-Nov-13	11042013-001.SSF	141317.3281	7079
722288.369	4294391.117	5665	04-Nov-13	11042013-001.SSF	141318.3638	7080
722288.37	4294391.114	5662	04-Nov-13	11042013-001.SSF	141319.3149	7081
722288.371	4294391.114	5637	04-Nov-13	11042013-001.SSF	141320.3838	7082
722288.376	4294391.122	5691	04-Nov-13	11042013-001.SSF	141321.3408	7083
722288.376	4294391.139	5661	04-Nov-13	11042013-001.SSF	141322.3408	7084
722288.375	4294391.139	5689	04-Nov-13	11042013-001.SSF	141323.3628	7085
722288.378	4294391.14	5705	04-Nov-13	11042013-001.SSF	141324.3608	7086
722288.379	4294391.146	6074	04-Nov-13	11042013-001.SSF	141325.3018	7087
722288.373	4294391.151	6049	04-Nov-13	11042013-001.SSF	141326.3452	7088
722288.371	4294391.157	5982	04-Nov-13	11042013-001.SSF	141327.374	7089
722288.371	4294391.152	6057	04-Nov-13	11042013-001.SSF	141328.459	7090
722288.364	4294391.149	5897	04-Nov-13	11042013-001.SSF	141329.3232	7091
722288.36	4294391.142	5695	04-Nov-13	11042013-001.SSF	141330.3638	7092
722288.361	4294391.143	5610	04-Nov-13	11042013-001.SSF	141331.3979	7093
722288.364	4294391.135	5968	04-Nov-13	11042013-001.SSF	141332.3481	7094
722288.366	4294391.123	5704	04-Nov-13	11042013-001.SSF	141333.376	7095
722288.365	4294391.113	5841	04-Nov-13	11042013-001.SSF	141334.4082	7096
722288.362	4294391.11	5685	04-Nov-13	11042013-001.SSF	141335.3521	7097
722288.366	4294391.103	6048	04-Nov-13	11042013-001.SSF	141336.374	7098
722288.374	4294391.106	5959	04-Nov-13	11042013-001.SSF	141337.3052	7099
722288.379	4294391.115	5872	04-Nov-13	11042013-001.SSF	141338.3291	7100
722288.368	4294391.112	6198	04-Nov-13	11042013-001.SSF	141339.3521	7101
722288.357	4294391.105	6374	04-Nov-13	11042013-001.SSF	141340.3291	7102
722288.369	4294391.098	6097	04-Nov-13	11042013-001.SSF	141341.3599	7103
722288.425	4294391.064	6145	04-Nov-13	11042013-001.SSF	141342.3818	7104
722288.497	4294391.05	5601	04-Nov-13	11042013-001.SSF	141343.2598	7105
722288.496	4294391.156	5318	04-Nov-13	11042013-001.SSF	141344.3862	7106
722288.442	4294391.131	5354	04-Nov-13	11042013-001.SSF	141345.248	7107
722288.404	4294391.018	5509	04-Nov-13	11042013-001.SSF	141346.2852	7108
722288.399	4294391.039	5348	04-Nov-13	11042013-001.SSF	141347.3369	7109
722288.392	4294391.07	5828	04-Nov-13	11042013-001.SSF	141348.3398	7110
722288.372	4294391.071	5603	04-Nov-13	11042013-001.SSF	141349.2871	7111

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.369	4294391.083	5477	04-Nov-13	11042013-001.SSF	141350.2939	7112
722288.385	4294391.094	5398	04-Nov-13	11042013-001.SSF	141351.2949	7113
722288.386	4294391.108	5339	04-Nov-13	11042013-001.SSF	141352.293	7114
722288.375	4294391.109	5455	04-Nov-13	11042013-001.SSF	141353.3442	7115
722288.338	4294391.11	5821	04-Nov-13	11042013-001.SSF	141354.249	7116
722288.313	4294391.097	5659	04-Nov-13	11042013-001.SSF	141355.3091	7117
722288.344	4294391.088	5733	04-Nov-13	11042013-001.SSF	141356.3579	7118
722288.372	4294391.09	5827	04-Nov-13	11042013-001.SSF	141357.3408	7119
722288.392	4294391.097	5588	04-Nov-13	11042013-001.SSF	141358.3809	7120
722288.398	4294391.113	5843	04-Nov-13	11042013-001.SSF	141359.4092	7121
722288.383	4294391.114	5521	04-Nov-13	11042013-001.SSF	141360.3589	7122
722288.362	4294391.092	5626	04-Nov-13	11042013-001.SSF	141361.2842	7123
722288.332	4294391.055	6014	04-Nov-13	11042013-001.SSF	141362.4209	7124
722288.326	4294391.048	5633	04-Nov-13	11042013-001.SSF	141363.3262	7125
722288.384	4294391.079	5696	04-Nov-13	11042013-001.SSF	141364.4131	7126
722288.457	4294391.128	6076	04-Nov-13	11042013-001.SSF	141365.2969	7127
722288.496	4294391.161	6125	04-Nov-13	11042013-001.SSF	141366.3188	7128
722288.454	4294391.165	5560	04-Nov-13	11042013-001.SSF	141367.3062	7129
722288.402	4294391.22	5355	04-Nov-13	11042013-001.SSF	141368.3032	7130
722288.417	4294391.24	5494	04-Nov-13	11042013-001.SSF	141369.3291	7131
722288.466	4294391.15	5558	04-Nov-13	11042013-001.SSF	141370.3198	7132
722288.468	4294391.109	5744	04-Nov-13	11042013-001.SSF	141371.3408	7133
722288.452	4294391.112	5443	04-Nov-13	11042013-001.SSF	141372.3521	7134
722288.451	4294391.114	5499	04-Nov-13	11042013-001.SSF	141373.2261	7135
722288.454	4294391.091	5838	04-Nov-13	11042013-001.SSF	141374.3271	7136
722288.463	4294391.068	5699	04-Nov-13	11042013-001.SSF	141375.2808	7137
722288.469	4294391.058	6123	04-Nov-13	11042013-001.SSF	141376.4082	7138
722288.458	4294391.062	6196	04-Nov-13	11042013-001.SSF	141377.3701	7139
722288.448	4294391.065	6140	04-Nov-13	11042013-001.SSF	141378.416	7140
722288.448	4294391.069	6259	04-Nov-13	11042013-001.SSF	141379.3428	7141
722288.446	4294391.084	6175	04-Nov-13	11042013-001.SSF	141380.3452	7142
722288.44	4294391.099	5753	04-Nov-13	11042013-001.SSF	141381.3672	7143
722288.444	4294391.105	5861	04-Nov-13	11042013-001.SSF	141382.4429	7144
722288.457	4294391.111	5959	04-Nov-13	11042013-001.SSF	141383.334	7145
722288.458	4294391.125	6157	04-Nov-13	11042013-001.SSF	141384.3311	7146
722288.435	4294391.123	6111	04-Nov-13	11042013-001.SSF	141385.3301	7147
722288.397	4294391.108	6250	04-Nov-13	11042013-001.SSF	141386.3242	7148
722288.371	4294391.082	5758	04-Nov-13	11042013-001.SSF	141387.3232	7149
722288.374	4294391.078	5406	04-Nov-13	11042013-001.SSF	141388.4019	7150
722288.399	4294391.097	5088	04-Nov-13	11042013-001.SSF	141389.356	7151
722288.432	4294391.126	5682	04-Nov-13	11042013-001.SSF	141390.373	7152
722288.454	4294391.134	5986	04-Nov-13	11042013-001.SSF	141391.2739	7153
722288.461	4294391.143	6082	04-Nov-13	11042013-001.SSF	141392.3262	7154
722288.466	4294391.142	5836	04-Nov-13	11042013-001.SSF	141393.3198	7155
722288.464	4294391.128	5885	04-Nov-13	11042013-001.SSF	141394.3462	7156
722288.464	4294391.114	5973	04-Nov-13	11042013-001.SSF	141395.3872	7157
722288.465	4294391.111	5902	04-Nov-13	11042013-001.SSF	141396.436	7158

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722288.487	4294391.109	5698	04-Nov-13	11042013-001.SSF	141398.437	7160
722288.489	4294391.119	5493	04-Nov-13	11042013-001.SSF	141399.3481	7161
722288.481	4294391.128	5572	04-Nov-13	11042013-001.SSF	141400.3672	7162
722288.476	4294391.137	5924	04-Nov-13	11042013-001.SSF	141401.252	7163
722288.479	4294391.143	6137	04-Nov-13	11042013-001.SSF	141402.3442	7164
722288.485	4294391.149	5874	04-Nov-13	11042013-001.SSF	141403.353	7165
722288.485	4294391.148	6004	04-Nov-13	11042013-001.SSF	141404.3838	7166
722288.486	4294391.162	6685	04-Nov-13	11042013-001.SSF	141405.314	7167
722288.485	4294391.244	6273	04-Nov-13	11042013-001.SSF	141406.353	7168
722288.429	4294391.313	6003	04-Nov-13	11042013-001.SSF	141407.3281	7169
722288.315	4294391.091	5409	04-Nov-13	11042013-001.SSF	141408.4268	7170
722288.259	4294390.941	5517	04-Nov-13	11042013-001.SSF	141409.3042	7171
722288.276	4294390.962	5893	04-Nov-13	11042013-001.SSF	141410.3408	7172
722288.312	4294390.992	5775	04-Nov-13	11042013-001.SSF	141411.313	7173
722288.332	4294391.015	5686	04-Nov-13	11042013-001.SSF	141412.3379	7174
722288.351	4294391.019	5568	04-Nov-13	11042013-001.SSF	141413.27	7175
722288.365	4294391.021	5757	04-Nov-13	11042013-001.SSF	141414.3242	7176
722288.368	4294391.028	6066	04-Nov-13	11042013-001.SSF	141415.333	7177
722288.377	4294391.036	5984	04-Nov-13	11042013-001.SSF	141416.2988	7178
722288.393	4294391.042	5916	04-Nov-13	11042013-001.SSF	141417.314	7179
722288.406	4294391.041	6065	04-Nov-13	11042013-001.SSF	141418.3428	7180
722288.396	4294391.033	5946	04-Nov-13	11042013-001.SSF	141419.2788	7181
722288.364	4294391.024	5940	04-Nov-13	11042013-001.SSF	141420.313	7182
722288.378	4294391.037	5883	04-Nov-13	11042013-001.SSF	141421.3359	7183
722288.414	4294391.054	6054	04-Nov-13	11042013-001.SSF	141422.332	7184
722288.423	4294391.052	5910	04-Nov-13	11042013-001.SSF	141423.3691	7185
722288.428	4294391.033	6167	04-Nov-13	11042013-001.SSF	141424.3701	7186
722288.435	4294391.021	5891	04-Nov-13	11042013-001.SSF	141425.2842	7187
722288.448	4294390.992	6261	04-Nov-13	11042013-001.SSF	141426.2739	7188
722288.465	4294390.957	6222	04-Nov-13	11042013-001.SSF	141427.1729	7189
722288.465	4294390.938	6807	04-Nov-13	11042013-001.SSF	141428.3159	7190
722288.461	4294390.932	6746	04-Nov-13	11042013-001.SSF	141429.1738	7191
722288.467	4294390.982	6195	04-Nov-13	11042013-001.SSF	141430.3462	7192
722288.467	4294391.012	5479	04-Nov-13	11042013-001.SSF	141431.313	7193
722288.439	4294391.009	5355	04-Nov-13	11042013-001.SSF	141432.3218	7194
722288.416	4294390.998	5914	04-Nov-13	11042013-001.SSF	141433.3271	7195
722288.423	4294390.992	5651	04-Nov-13	11042013-001.SSF	141434.3198	7196
722288.444	4294391.014	5931	04-Nov-13	11042013-001.SSF	141435.3008	7197
722288.481	4294391.064	6036	04-Nov-13	11042013-001.SSF	141436.3872	7198
722288.498	4294391.072	5810	04-Nov-13	11042013-001.SSF	141437.2612	7199
722288.483	4294391.04	5121	04-Nov-13	11042013-001.SSF	141438.2871	7200
722288.472	4294391.047	5378	04-Nov-13	11042013-001.SSF	141439.3232	7201
722288.464	4294391.068	5732	04-Nov-13	11042013-001.SSF	141440.3159	7202
722288.453	4294391.067	6089	04-Nov-13	11042013-001.SSF	141441.2959	7203
722288.44	4294391.05	6125	04-Nov-13	11042013-001.SSF	141442.292	7204
722288.45	4294391.024	5958	04-Nov-13	11042013-001.SSF	141443.3501	7205

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.452	4294391.048	5766	04-Nov-13	11042013-001.SSF	141444.333	7206
722288.43	4294391.088	5291	04-Nov-13	11042013-001.SSF	141445.2388	7207
722288.471	4294391.189	5338	04-Nov-13	11042013-001.SSF	141446.2622	7208
722288.545	4294391.299	5755	04-Nov-13	11042013-001.SSF	141447.312	7209
722288.558	4294391.336	5667	04-Nov-13	11042013-001.SSF	141448.375	7210
722288.549	4294391.375	6030	04-Nov-13	11042013-001.SSF	141449.207	7211
722288.517	4294391.4	6279	04-Nov-13	11042013-001.SSF	141450.3149	7212
722288.474	4294391.37	6337	04-Nov-13	11042013-001.SSF	141451.2632	7213
722288.439	4294391.344	6317	04-Nov-13	11042013-001.SSF	141452.356	7214
722288.415	4294391.342	5976	04-Nov-13	11042013-001.SSF	141453.29	7215
722288.393	4294391.344	6354	04-Nov-13	11042013-001.SSF	141454.272	7216
722288.374	4294391.357	6079	04-Nov-13	11042013-001.SSF	141455.3032	7217
722288.361	4294391.383	5894	04-Nov-13	11042013-001.SSF	141456.3481	7218
722288.397	4294391.387	5760	04-Nov-13	11042013-001.SSF	141457.2168	7219
722288.481	4294391.272	6487	04-Nov-13	11042013-001.SSF	141458.373	7220
722288.484	4294391.191	6251	04-Nov-13	11042013-001.SSF	141459.2212	7221
722288.443	4294391.161	5991	04-Nov-13	11042013-001.SSF	141460.3159	7222
722288.444	4294391.131	5973	04-Nov-13	11042013-001.SSF	141461.3188	7223
722288.462	4294391.096	6179	04-Nov-13	11042013-001.SSF	141462.3911	7224
722288.471	4294391.064	5591	04-Nov-13	11042013-001.SSF	141463.2959	7225
722288.481	4294391.05	5732	04-Nov-13	11042013-001.SSF	141464.3882	7226
722288.484	4294391.164	5857	04-Nov-13	11042013-001.SSF	141465.3042	7227
722288.58	4294391.664	6137	04-Nov-13	11042013-001.SSF	141466.375	7228
722288.745	4294392.259	6032	04-Nov-13	11042013-001.SSF	141467.2822	7229
722288.673	4294393.11	6205	04-Nov-13	11042013-001.SSF	141468.3442	7230
722288.717	4294393.841	5433	04-Nov-13	11042013-001.SSF	141469.2402	7231
722289.186	4294394.548	5741	04-Nov-13	11042013-001.SSF	141470.3428	7232
722289.36	4294394.896	5831	04-Nov-13	11042013-001.SSF	141471.2349	7233
722289.311	4294395.257	6580	04-Nov-13	11042013-001.SSF	141472.3242	7234
722289.184	4294395.764	7068	04-Nov-13	11042013-001.SSF	141473.3491	7235
722289.014	4294396.273	6661	04-Nov-13	11042013-001.SSF	141474.355	7236
722288.879	4294396.624	6754	04-Nov-13	11042013-001.SSF	141475.1982	7237
722288.74	4294396.904	6356	04-Nov-13	11042013-001.SSF	141476.2651	7238
722288.523	4294397.153	6643	04-Nov-13	11042013-001.SSF	141477.2681	7239
722288.131	4294397.113	6332	04-Nov-13	11042013-001.SSF	141478.3442	7240
722287.987	4294396.97	6659	04-Nov-13	11042013-001.SSF	141479.3081	7241
722288.013	4294396.827	6648	04-Nov-13	11042013-001.SSF	141480.355	7242
722288.048	4294396.746	6816	04-Nov-13	11042013-001.SSF	141481.3252	7243
722288.052	4294396.709	6824	04-Nov-13	11042013-001.SSF	141482.3589	7244
722288.039	4294396.706	6508	04-Nov-13	11042013-001.SSF	141483.3481	7245
722288.049	4294396.657	6211	04-Nov-13	11042013-001.SSF	141484.3999	7246
722288.07	4294396.595	6163	04-Nov-13	11042013-001.SSF	141485.2202	7247
722288.085	4294396.512	5972	04-Nov-13	11042013-001.SSF	141486.3481	7248
722288.098	4294396.435	6637	04-Nov-13	11042013-001.SSF	141487.2158	7249
722288.085	4294396.446	6485	04-Nov-13	11042013-001.SSF	141488.3589	7250
722288.049	4294396.523	6738	04-Nov-13	11042013-001.SSF	141489.3462	7251
722288.069	4294396.482	6700	04-Nov-13	11042013-001.SSF	141490.4199	7252

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722288.071	4294396.462	6678	04-Nov-13	11042013-001.SSF	141491.27	7253
722288.034	4294396.567	6517	04-Nov-13	11042013-001.SSF	141492.4131	7254
722288.056	4294396.588	6253	04-Nov-13	11042013-001.SSF	141493.3589	7255
722288.088	4294396.531	6592	04-Nov-13	11042013-001.SSF	141494.3599	7256
722288.096	4294396.468	6633	04-Nov-13	11042013-001.SSF	141495.2651	7257
722288.117	4294396.44	7001	04-Nov-13	11042013-001.SSF	141496.4131	7258
722288.095	4294396.484	6518	04-Nov-13	11042013-001.SSF	141497.3491	7259
722287.968	4294396.587	6359	04-Nov-13	11042013-001.SSF	141498.3511	7260
722287.887	4294396.655	6404	04-Nov-13	11042013-001.SSF	141499.252	7261
722287.927	4294396.526	6602	04-Nov-13	11042013-001.SSF	141500.3062	7262
722287.944	4294396.407	6391	04-Nov-13	11042013-001.SSF	141501.2378	7263
722287.952	4294396.593	6475	04-Nov-13	11042013-001.SSF	141502.3491	7264
722288.052	4294396.612	6672	04-Nov-13	11042013-001.SSF	141503.2778	7265
722288.13	4294396.496	6693	04-Nov-13	11042013-001.SSF	141504.334	7266
722288.112	4294396.425	6082	04-Nov-13	11042013-001.SSF	141505.2979	7267
722288.071	4294396.375	6203	04-Nov-13	11042013-001.SSF	141506.3921	7268
722288.058	4294396.361	5942	04-Nov-13	11042013-001.SSF	141507.2998	7269
722288.083	4294396.353	6110	04-Nov-13	11042013-001.SSF	141508.3882	7270
722288.095	4294396.364	6279	04-Nov-13	11042013-001.SSF	141509.3149	7271
722288.066	4294396.375	6209	04-Nov-13	11042013-001.SSF	141510.3252	7272
722288.029	4294396.392	6433	04-Nov-13	11042013-001.SSF	141511.2891	7273
722287.999	4294396.395	6543	04-Nov-13	11042013-001.SSF	141512.3652	7274
722287.991	4294396.455	6695	04-Nov-13	11042013-001.SSF	141513.3281	7275
722288.052	4294396.499	5933	04-Nov-13	11042013-001.SSF	141514.373	7276
722288.136	4294396.018	6322	04-Nov-13	11042013-001.SSF	141515.2798	7277
722288.241	4294394.98	6399	04-Nov-13	11042013-001.SSF	141516.2612	7278
722288.326	4294394.273	6299	04-Nov-13	11042013-001.SSF	141517.1909	7279
722288.223	4294393.961	6326	04-Nov-13	11042013-001.SSF	141518.2979	7280
722288.175	4294393.906	6536	04-Nov-13	11042013-001.SSF	141519.252	7281
722288.137	4294393.769	6669	04-Nov-13	11042013-001.SSF	141520.3491	7282
722288.094	4294393.565	6353	04-Nov-13	11042013-001.SSF	141521.2349	7283
722288.36	4294393.24	6791	04-Nov-13	11042013-001.SSF	141522.3462	7284
722288.345	4294392.851	6482	04-Nov-13	11042013-001.SSF	141523.271	7285
722287.631	4294392.599	6834	04-Nov-13	11042013-001.SSF	141524.4048	7286
722286.99	4294392.641	6566	04-Nov-13	11042013-001.SSF	141525.3521	7287
722286.79	4294392.714	6101	04-Nov-13	11042013-001.SSF	141526.3652	7288
722286.83	4294392.747	6049	04-Nov-13	11042013-001.SSF	141527.1538	7289
722286.847	4294392.68	6485	04-Nov-13	11042013-001.SSF	141528.3188	7290
722286.86	4294392.583	6738	04-Nov-13	11042013-001.SSF	141529.249	7291
722286.859	4294392.517	7075	04-Nov-13	11042013-001.SSF	141530.3101	7292
722286.847	4294392.501	6994	04-Nov-13	11042013-001.SSF	141531.2822	7293
722286.833	4294392.495	6454	04-Nov-13	11042013-001.SSF	141532.291	7294
722286.834	4294392.475	6638	04-Nov-13	11042013-001.SSF	141533.186	7295
722286.847	4294392.41	6959	04-Nov-13	11042013-001.SSF	141534.3091	7296
722286.823	4294392.348	6442	04-Nov-13	11042013-001.SSF	141535.2598	7297
722286.75	4294392.309	6616	04-Nov-13	11042013-001.SSF	141536.335	7298
722286.704	4294392.286	6549	04-Nov-13	11042013-001.SSF	141537.2871	7299

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722286.676	4294392.301	6466	04-Nov-13	11042013-001.SSF	141538.3652	7300
722286.682	4294392.326	6570	04-Nov-13	11042013-001.SSF	141539.2871	7301
722286.716	4294392.33	6208	04-Nov-13	11042013-001.SSF	141540.3652	7302
722286.681	4294392.31	6236	04-Nov-13	11042013-001.SSF	141541.207	7303
722286.573	4294392.331	6080	04-Nov-13	11042013-001.SSF	141542.3232	7304
722286.559	4294392.448	6173	04-Nov-13	11042013-001.SSF	141543.292	7305
722286.705	4294392.52	5782	04-Nov-13	11042013-001.SSF	141544.332	7306
722286.865	4294392.505	5855	04-Nov-13	11042013-001.SSF	141545.2622	7307
722286.886	4294392.488	6398	04-Nov-13	11042013-001.SSF	141546.3008	7308
722286.849	4294392.465	6486	04-Nov-13	11042013-001.SSF	141547.2271	7309
722286.876	4294392.372	6761	04-Nov-13	11042013-001.SSF	141548.2329	7310
722286.917	4294392.337	6105	04-Nov-13	11042013-001.SSF	141549.2402	7311
722286.933	4294392.369	6007	04-Nov-13	11042013-001.SSF	141550.332	7312
722286.921	4294392.375	5913	04-Nov-13	11042013-001.SSF	141551.2632	7313
722286.903	4294392.367	6386	04-Nov-13	11042013-001.SSF	141552.3711	7314
722286.904	4294392.345	5775	04-Nov-13	11042013-001.SSF	141553.311	7315
722286.902	4294392.326	6068	04-Nov-13	11042013-001.SSF	141554.313	7316
722286.797	4294392.395	5656	04-Nov-13	11042013-001.SSF	141555.231	7317
722286.484	4294392.668	6361	04-Nov-13	11042013-001.SSF	141556.3379	7318
722286.376	4294392.811	6090	04-Nov-13	11042013-001.SSF	141557.2822	7319
722286.425	4294392.762	6433	04-Nov-13	11042013-001.SSF	141558.3101	7320
722286.462	4294392.634	6416	04-Nov-13	11042013-001.SSF	141559.2349	7321
722286.456	4294392.519	6421	04-Nov-13	11042013-001.SSF	141560.4131	7322
722286.329	4294392.467	6147	04-Nov-13	11042013-001.SSF	141561.2388	7323
722286.202	4294392.405	6300	04-Nov-13	11042013-001.SSF	141562.3472	7324
722286.198	4294392.377	6483	04-Nov-13	11042013-001.SSF	141563.333	7325
722286.194	4294392.365	6474	04-Nov-13	11042013-001.SSF	141564.2881	7326
722286.185	4294392.366	6334	04-Nov-13	11042013-001.SSF	141565.2539	7327
722286.167	4294392.376	6278	04-Nov-13	11042013-001.SSF	141566.2798	7328
722286.156	4294392.398	6569	04-Nov-13	11042013-001.SSF	141567.2051	7329
722286.197	4294392.393	6275	04-Nov-13	11042013-001.SSF	141568.314	7330
722286.315	4294392.375	6544	04-Nov-13	11042013-001.SSF	141569.3062	7331
722286.438	4294392.43	6456	04-Nov-13	11042013-001.SSF	141570.3628	7332
722286.474	4294392.481	6151	04-Nov-13	11042013-001.SSF	141571.2529	7333
722286.44	4294392.453	6145	04-Nov-13	11042013-001.SSF	141572.418	7334
722286.302	4294392.448	6494	04-Nov-13	11042013-001.SSF	141573.3062	7335
722286.139	4294392.468	6630	04-Nov-13	11042013-001.SSF	141574.333	7336
722286.093	4294392.491	6189	04-Nov-13	11042013-001.SSF	141575.1958	7337
722286.08	4294392.504	6054	04-Nov-13	11042013-001.SSF	141576.3589	7338
722286.091	4294392.496	6135	04-Nov-13	11042013-001.SSF	141577.3169	7339
722286.138	4294392.476	6421	04-Nov-13	11042013-001.SSF	141578.3301	7340
722286.168	4294392.464	6521	04-Nov-13	11042013-001.SSF	141579.2329	7341
722286.147	4294392.479	6631	04-Nov-13	11042013-001.SSF	141580.2959	7342
722286.126	4294392.483	6400	04-Nov-13	11042013-001.SSF	141581.2129	7343
722286.17	4294392.451	5865	04-Nov-13	11042013-001.SSF	141582.332	7344
722286.32	4294392.439	6059	04-Nov-13	11042013-001.SSF	141583.187	7345
722286.541	4294392.44	6070	04-Nov-13	11042013-001.SSF	141584.3608	7346

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722286.525	4294392.452	6122	04-Nov-13	11042013-001.SSF	141585.2949	7347
722286.362	4294392.536	6008	04-Nov-13	11042013-001.SSF	141586.3101	7348
722286.334	4294392.729	6184	04-Nov-13	11042013-001.SSF	141587.2612	7349
722286.541	4294392.886	6194	04-Nov-13	11042013-001.SSF	141588.3149	7350
722286.675	4294392.839	6199	04-Nov-13	11042013-001.SSF	141589.293	7351
722286.831	4294392.716	6494	04-Nov-13	11042013-001.SSF	141590.3608	7352
722286.864	4294392.743	6495	04-Nov-13	11042013-001.SSF	141591.2441	7353
722286.772	4294392.766	6361	04-Nov-13	11042013-001.SSF	141592.3149	7354
722286.696	4294392.716	6293	04-Nov-13	11042013-001.SSF	141593.2881	7355
722286.563	4294392.63	5962	04-Nov-13	11042013-001.SSF	141594.3379	7356
722286.503	4294392.566	5896	04-Nov-13	11042013-001.SSF	141595.2988	7357
722286.459	4294392.476	6489	04-Nov-13	11042013-001.SSF	141596.415	7358
722286.446	4294392.393	6125	04-Nov-13	11042013-001.SSF	141597.3252	7359
722286.439	4294392.304	6408	04-Nov-13	11042013-001.SSF	141598.3828	7360
722286.404	4294392.265	6086	04-Nov-13	11042013-001.SSF	141599.2739	7361
722286.234	4294392.302	6168	04-Nov-13	11042013-001.SSF	141600.3521	7362
722286.097	4294392.33	6425	04-Nov-13	11042013-001.SSF	141601.291	7363
722286.114	4294392.275	6824	04-Nov-13	11042013-001.SSF	141602.3618	7364
722286.104	4294392.259	6268	04-Nov-13	11042013-001.SSF	141603.2759	7365
722286.047	4294392.277	6391	04-Nov-13	11042013-001.SSF	141604.3672	7366
722286.016	4294392.31	6385	04-Nov-13	11042013-001.SSF	141605.2808	7367
722286.055	4294392.365	6711	04-Nov-13	11042013-001.SSF	141606.353	7368
722286.278	4294392.35	6767	04-Nov-13	11042013-001.SSF	141607.3091	7369
722286.444	4294392.355	6236	04-Nov-13	11042013-001.SSF	141608.3301	7370
722286.403	4294392.427	6125	04-Nov-13	11042013-001.SSF	141609.2749	7371
722286.335	4294392.444	6386	04-Nov-13	11042013-001.SSF	141610.355	7372
722286.304	4294392.404	6449	04-Nov-13	11042013-001.SSF	141611.3018	7373
722286.278	4294392.367	6688	04-Nov-13	11042013-001.SSF	141612.292	7374
722286.263	4294392.344	6304	04-Nov-13	11042013-001.SSF	141613.2651	7375
722286.264	4294392.329	6583	04-Nov-13	11042013-001.SSF	141614.3291	7376
722286.27	4294392.325	6216	04-Nov-13	11042013-001.SSF	141615.2471	7377
722286.265	4294392.319	6534	04-Nov-13	11042013-001.SSF	141616.2358	7378
722286.245	4294392.304	6817	04-Nov-13	11042013-001.SSF	141617.2451	7379
722286.248	4294392.283	6602	04-Nov-13	11042013-001.SSF	141618.2529	7380
722286.251	4294392.261	6271	04-Nov-13	11042013-001.SSF	141619.2529	7381
722286.237	4294392.254	6722	04-Nov-13	11042013-001.SSF	141620.2402	7382
722286.281	4294392.259	6459	04-Nov-13	11042013-001.SSF	141621.125	7383
722286.397	4294392.23	6378	04-Nov-13	11042013-001.SSF	141622.2798	7384
722286.434	4294392.223	6272	04-Nov-13	11042013-001.SSF	141623.1572	7385
722286.312	4294392.264	6363	04-Nov-13	11042013-001.SSF	141624.2422	7386
722286.244	4294392.233	6632	04-Nov-13	11042013-001.SSF	141625.293	7387
722286.28	4294392.173	6153	04-Nov-13	11042013-001.SSF	141626.3491	7388
722286.298	4294392.164	6191	04-Nov-13	11042013-001.SSF	141627.2852	7389
722286.232	4294392.188	6250	04-Nov-13	11042013-001.SSF	141628.3511	7390
722286.177	4294392.198	6373	04-Nov-13	11042013-001.SSF	141629.335	7391
722286.107	4294392.187	6390	04-Nov-13	11042013-001.SSF	141630.2998	7392
722285.994	4294392.114	6151	04-Nov-13	11042013-001.SSF	141631.2549	7393

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722285.951	4294391.988	6370	04-Nov-13	11042013-001.SSF	141632.3271	7394
722285.976	4294391.94	6335	04-Nov-13	11042013-001.SSF	141633.1318	7395
722286.041	4294391.934	6564	04-Nov-13	11042013-001.SSF	141634.229	7396
722286.053	4294391.932	6669	04-Nov-13	11042013-001.SSF	141635.2632	7397
722285.997	4294391.984	6624	04-Nov-13	11042013-001.SSF	141636.2612	7398
722285.981	4294392.013	6523	04-Nov-13	11042013-001.SSF	141637.2461	7399
722286.019	4294392.047	6429	04-Nov-13	11042013-001.SSF	141638.3052	7400
722286.093	4294392.099	6016	04-Nov-13	11042013-001.SSF	141639.2729	7401
722286.135	4294392.129	6136	04-Nov-13	11042013-001.SSF	141640.356	7402
722286.151	4294392.157	5514	04-Nov-13	11042013-001.SSF	141641.334	7403
722286.16	4294392.205	5524	04-Nov-13	11042013-001.SSF	141642.3159	7404
722286.177	4294392.237	5897	04-Nov-13	11042013-001.SSF	141643.3682	7405
722286.2	4294392.25	6175	04-Nov-13	11042013-001.SSF	141644.3379	7406
722286.207	4294392.251	6473	04-Nov-13	11042013-001.SSF	141645.248	7407
722286.215	4294392.199	6971	04-Nov-13	11042013-001.SSF	141646.272	7408
722286.23	4294392.166	6576	04-Nov-13	11042013-001.SSF	141647.229	7409
722286.219	4294392.192	6421	04-Nov-13	11042013-001.SSF	141648.3281	7410
722286.209	4294392.218	6829	04-Nov-13	11042013-001.SSF	141649.3081	7411
722286.21	4294392.243	6646	04-Nov-13	11042013-001.SSF	141650.2822	7412
722286.242	4294392.28	6356	04-Nov-13	11042013-001.SSF	141651.2529	7413
722286.301	4294392.332	6852	04-Nov-13	11042013-001.SSF	141652.2422	7414
722286.33	4294392.356	6757	04-Nov-13	11042013-001.SSF	141653.2212	7415
722286.313	4294392.342	6223	04-Nov-13	11042013-001.SSF	141654.2808	7416
722286.252	4294392.3	6568	04-Nov-13	11042013-001.SSF	141655.2368	7417
722286.126	4294392.199	6484	04-Nov-13	11042013-001.SSF	141656.2539	7418
722286.035	4294392.128	6580	04-Nov-13	11042013-001.SSF	141657.2949	7419
722285.997	4294392.152	6558	04-Nov-13	11042013-001.SSF	141658.2988	7420
722285.975	4294392.208	6337	04-Nov-13	11042013-001.SSF	141659.2681	7421
722285.992	4294392.226	6317	04-Nov-13	11042013-001.SSF	141660.271	7422
722286.007	4294392.222	6493	04-Nov-13	11042013-001.SSF	141661.313	7423
722286.038	4294392.208	6532	04-Nov-13	11042013-001.SSF	141662.3242	7424
722286.047	4294392.204	6172	04-Nov-13	11042013-001.SSF	141663.2778	7425
722286.037	4294392.204	5774	04-Nov-13	11042013-001.SSF	141664.311	7426
722286.071	4294392.175	6473	04-Nov-13	11042013-001.SSF	141665.269	7427
722286.108	4294392.169	6566	04-Nov-13	11042013-001.SSF	141666.3208	7428
722286.1	4294392.256	6528	04-Nov-13	11042013-001.SSF	141667.293	7429
722286.026	4294392.427	6987	04-Nov-13	11042013-001.SSF	141668.3198	7430
722285.973	4294392.537	6810	04-Nov-13	11042013-001.SSF	141669.2432	7431
722286.039	4294392.536	6605	04-Nov-13	11042013-001.SSF	141670.3159	7432
722286.158	4294392.514	6176	04-Nov-13	11042013-001.SSF	141671.269	7433
722286.265	4294392.504	6346	04-Nov-13	11042013-001.SSF	141672.312	7434
722286.373	4294392.436	6307	04-Nov-13	11042013-001.SSF	141673.1641	7435
722286.582	4294392.431	7057	04-Nov-13	11042013-001.SSF	141674.3218	7436
722286.62	4294392.535	6910	04-Nov-13	11042013-001.SSF	141675.2402	7437
722286.388	4294392.649	6632	04-Nov-13	11042013-001.SSF	141676.2681	7438
722286.245	4294392.678	6790	04-Nov-13	11042013-001.SSF	141677.126	7439
722286.225	4294392.607	6452	04-Nov-13	11042013-001.SSF	141678.3389	7440

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.187	4294392.616	6367	04-Nov-13	11042013-001.SSF	141679.2622	7441
722286.152	4294392.62	6333	04-Nov-13	11042013-001.SSF	141680.354	7442
722286.167	4294392.57	6345	04-Nov-13	11042013-001.SSF	141681.188	7443
722286.236	4294392.471	5999	04-Nov-13	11042013-001.SSF	141682.3481	7444
722286.251	4294392.447	6442	04-Nov-13	11042013-001.SSF	141683.311	7445
722286.229	4294392.449	6676	04-Nov-13	11042013-001.SSF	141684.1948	7446
722286.21	4294392.431	7122	04-Nov-13	11042013-001.SSF	141685.2192	7447
722286.199	4294392.411	7074	04-Nov-13	11042013-001.SSF	141686.229	7448
722286.193	4294392.402	6251	04-Nov-13	11042013-001.SSF	141687.2241	7449
722286.187	4294392.405	6081	04-Nov-13	11042013-001.SSF	141688.3208	7450
722286.185	4294392.398	5985	04-Nov-13	11042013-001.SSF	141689.2212	7451
722286.186	4294392.395	5729	04-Nov-13	11042013-001.SSF	141690.353	7452
722286.179	4294392.413	5900	04-Nov-13	11042013-001.SSF	141691.3018	7453
722286.196	4294392.416	6176	04-Nov-13	11042013-001.SSF	141692.2651	7454
722286.264	4294392.371	6654	04-Nov-13	11042013-001.SSF	141693.187	7455
722286.239	4294392.343	6428	04-Nov-13	11042013-001.SSF	141694.2861	7456
722286.16	4294392.358	6248	04-Nov-13	11042013-001.SSF	141695.1479	7457
722286.126	4294392.375	5929	04-Nov-13	11042013-001.SSF	141696.3472	7458
722286.117	4294392.379	6035	04-Nov-13	11042013-001.SSF	141697.2778	7459
722286.126	4294392.38	5329	04-Nov-13	11042013-001.SSF	141698.3198	7460
722286.137	4294392.383	5608	04-Nov-13	11042013-001.SSF	141699.2471	7461
722286.153	4294392.372	5449	04-Nov-13	11042013-001.SSF	141700.2588	7462
722286.167	4294392.362	5780	04-Nov-13	11042013-001.SSF	141701.271	7463
722286.178	4294392.372	5831	04-Nov-13	11042013-001.SSF	141702.3091	7464
722286.195	4294392.395	6317	04-Nov-13	11042013-001.SSF	141703.2271	7465
722286.208	4294392.405	6276	04-Nov-13	11042013-001.SSF	141704.1982	7466
722286.207	4294392.39	6275	04-Nov-13	11042013-001.SSF	141705.2441	7467
722286.204	4294392.376	6372	04-Nov-13	11042013-001.SSF	141706.2051	7468
722286.189	4294392.381	6487	04-Nov-13	11042013-001.SSF	141707.2422	7469
722286.172	4294392.393	6483	04-Nov-13	11042013-001.SSF	141708.2319	7470
722286.162	4294392.406	6384	04-Nov-13	11042013-001.SSF	141709.2832	7471
722286.169	4294392.408	6554	04-Nov-13	11042013-001.SSF	141710.251	7472
722286.179	4294392.406	6356	04-Nov-13	11042013-001.SSF	141711.1689	7473
722286.188	4294392.394	6125	04-Nov-13	11042013-001.SSF	141712.2998	7474
722286.171	4294392.395	6100	04-Nov-13	11042013-001.SSF	141713.2461	7475
722286.108	4294392.42	6431	04-Nov-13	11042013-001.SSF	141714.1958	7476
722286.052	4294392.499	6092	04-Nov-13	11042013-001.SSF	141715.3101	7477
722286.109	4294392.535	6389	04-Nov-13	11042013-001.SSF	141716.3691	7478
722286.072	4294392.533	6286	04-Nov-13	11042013-001.SSF	141717.2441	7479
722286.026	4294392.483	6573	04-Nov-13	11042013-001.SSF	141718.2441	7480
722286.111	4294392.436	6577	04-Nov-13	11042013-001.SSF	141719.2549	7481
722286.161	4294392.44	6325	04-Nov-13	11042013-001.SSF	141720.3101	7482
722286.176	4294392.426	6190	04-Nov-13	11042013-001.SSF	141721.2241	7483
722286.147	4294392.361	6789	04-Nov-13	11042013-001.SSF	141722.2329	7484
722286.034	4294392.32	6976	04-Nov-13	11042013-001.SSF	141723.2441	7485
722285.972	4294392.331	6429	04-Nov-13	11042013-001.SSF	141724.2949	7486
722285.997	4294392.338	5986	04-Nov-13	11042013-001.SSF	141725.0781	7487

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722286.108	4294392.299	6690	04-Nov-13	11042013-001.SSF	141726.2451	7488
722286.278	4294392.293	6238	04-Nov-13	11042013-001.SSF	141727.23	7489
722286.319	4294392.366	6419	04-Nov-13	11042013-001.SSF	141728.2549	7490
722286.265	4294392.405	6978	04-Nov-13	11042013-001.SSF	141729.166	7491
722286.265	4294392.401	6745	04-Nov-13	11042013-001.SSF	141730.2739	7492
722286.253	4294392.396	6284	04-Nov-13	11042013-001.SSF	141731.2031	7493
722286.177	4294392.364	6039	04-Nov-13	11042013-001.SSF	141732.3452	7494
722286.102	4294392.358	6187	04-Nov-13	11042013-001.SSF	141733.2559	7495
722286.081	4294392.404	6412	04-Nov-13	11042013-001.SSF	141734.269	7496
722286.101	4294392.44	6269	04-Nov-13	11042013-001.SSF	141735.1572	7497
722286.139	4294392.474	6586	04-Nov-13	11042013-001.SSF	141736.2739	7498
722286.129	4294392.496	5887	04-Nov-13	11042013-001.SSF	141737.1489	7499
722286.125	4294392.506	5891	04-Nov-13	11042013-001.SSF	141738.2651	7500
722286.175	4294392.494	5549	04-Nov-13	11042013-001.SSF	141739.1812	7501
722286.193	4294392.488	6226	04-Nov-13	11042013-001.SSF	141740.2451	7502
722286.15	4294392.497	6667	04-Nov-13	11042013-001.SSF	141741.1812	7503
722286.11	4294392.497	6540	04-Nov-13	11042013-001.SSF	141742.2749	7504
722286.19	4294392.487	6843	04-Nov-13	11042013-001.SSF	141743.2002	7505
722286.152	4294392.577	6902	04-Nov-13	11042013-001.SSF	141744.3159	7506
722286.031	4294392.662	7355	04-Nov-13	11042013-001.SSF	141745.1538	7507
722286.005	4294392.636	7077	04-Nov-13	11042013-001.SSF	141746.2598	7508
722286.024	4294392.547	6981	04-Nov-13	11042013-001.SSF	141747.2388	7509
722286.055	4294392.457	6836	04-Nov-13	11042013-001.SSF	141748.1362	7510
722286.053	4294392.416	6793	04-Nov-13	11042013-001.SSF	141749.0669	7511
722285.999	4294392.428	6656	04-Nov-13	11042013-001.SSF	141750.3169	7512
722285.993	4294392.453	6361	04-Nov-13	11042013-001.SSF	141751.2178	7513
722286.006	4294392.474	6158	04-Nov-13	11042013-001.SSF	141752.272	7514
722286.007	4294392.469	6059	04-Nov-13	11042013-001.SSF	141753.0952	7515
722286.001	4294392.467	6348	04-Nov-13	11042013-001.SSF	141754.209	7516
722285.987	4294392.473	6353	04-Nov-13	11042013-001.SSF	141755.291	7517
722285.976	4294392.474	6641	04-Nov-13	11042013-001.SSF	141756.3188	7518
722286.009	4294392.472	6248	04-Nov-13	11042013-001.SSF	141757.228	7519
722286.151	4294392.481	6027	04-Nov-13	11042013-001.SSF	141758.2988	7520
722286.185	4294392.502	5857	04-Nov-13	11042013-001.SSF	141759.1338	7521
722286.043	4294392.584	6152	04-Nov-13	11042013-001.SSF	141760.187	7522
722286.091	4294392.541	6416	04-Nov-13	11042013-001.SSF	141761.27	7523
722286.159	4294392.498	6586	04-Nov-13	11042013-001.SSF	141762.3242	7524
722286.134	4294392.486	6427	04-Nov-13	11042013-001.SSF	141763.186	7525
722285.984	4294392.533	6120	04-Nov-13	11042013-001.SSF	141764.2832	7526
722285.869	4294392.663	5940	04-Nov-13	11042013-001.SSF	141765.0781	7527
722285.939	4294392.641	6198	04-Nov-13	11042013-001.SSF	141766.2539	7528
722285.962	4294392.578	6487	04-Nov-13	11042013-001.SSF	141767.2178	7529
722285.879	4294392.638	6506	04-Nov-13	11042013-001.SSF	141768.2842	7530
722285.873	4294392.658	6007	04-Nov-13	11042013-001.SSF	141769.187	7531
722285.95	4294392.656	5681	04-Nov-13	11042013-001.SSF	141770.311	7532
722285.982	4294392.64	6098	04-Nov-13	11042013-001.SSF	141771.291	7533
722285.998	4294392.587	6168	04-Nov-13	11042013-001.SSF	141772.2739	7534

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722286.039	4294392.53	6416	04-Nov-13	11042013-001.SSF	141774.3042	7536
722285.99	4294392.571	6076	04-Nov-13	11042013-001.SSF	141775.1729	7537
722285.955	4294392.577	6583	04-Nov-13	11042013-001.SSF	141776.2642	7538
722285.954	4294392.544	6215	04-Nov-13	11042013-001.SSF	141777.1372	7539
722285.963	4294392.516	5813	04-Nov-13	11042013-001.SSF	141778.2988	7540
722285.982	4294392.496	6292	04-Nov-13	11042013-001.SSF	141779.2222	7541
722286.007	4294392.481	6532	04-Nov-13	11042013-001.SSF	141780.2441	7542
722286.026	4294392.474	6074	04-Nov-13	11042013-001.SSF	141781.1392	7543
722286.021	4294392.434	6116	04-Nov-13	11042013-001.SSF	141782.3008	7544
722285.982	4294392.408	6343	04-Nov-13	11042013-001.SSF	141783.1401	7545
722285.905	4294392.44	6140	04-Nov-13	11042013-001.SSF	141784.2729	7546
722285.896	4294392.457	6124	04-Nov-13	11042013-001.SSF	141785.1768	7547
722285.906	4294392.457	6152	04-Nov-13	11042013-001.SSF	141786.2959	7548
722285.899	4294392.453	5800	04-Nov-13	11042013-001.SSF	141787.2222	7549
722285.898	4294392.447	5805	04-Nov-13	11042013-001.SSF	141788.291	7550
722285.912	4294392.444	6153	04-Nov-13	11042013-001.SSF	141789.2778	7551
722285.918	4294392.439	6341	04-Nov-13	11042013-001.SSF	141790.293	7552
722285.913	4294392.454	6079	04-Nov-13	11042013-001.SSF	141791.189	7553
722285.892	4294392.488	5392	04-Nov-13	11042013-001.SSF	141792.2158	7554
722285.896	4294392.486	5403	04-Nov-13	11042013-001.SSF	141793.0488	7555
722286.065	4294392.349	5581	04-Nov-13	11042013-001.SSF	141794.2949	7556
722286.23	4294392.268	5869	04-Nov-13	11042013-001.SSF	141795.041	7557
722286.276	4294392.266	5754	04-Nov-13	11042013-001.SSF	141796.1519	7558
722286.082	4294392.371	5914	04-Nov-13	11042013-001.SSF	141797.1958	7559
722285.966	4294392.337	5801	04-Nov-13	11042013-001.SSF	141798.2349	7560
722285.99	4294392.257	6285	04-Nov-13	11042013-001.SSF	141799.061	7561
722286.02	4294392.288	6363	04-Nov-13	11042013-001.SSF	141800.2998	7562
722286.028	4294392.335	6107	04-Nov-13	11042013-001.SSF	141801.1938	7563
722286.029	4294392.4	6082	04-Nov-13	11042013-001.SSF	141802.2192	7564
722286.039	4294392.457	5769	04-Nov-13	11042013-001.SSF	141803.1729	7565
722286.023	4294392.51	6455	04-Nov-13	11042013-001.SSF	141804.292	7566
722285.992	4294392.523	6556	04-Nov-13	11042013-001.SSF	141805.0381	7567
722285.907	4294392.614	6830	04-Nov-13	11042013-001.SSF	141806.2871	7568
722285.872	4294392.646	6292	04-Nov-13	11042013-001.SSF	141807.042	7569
722285.875	4294392.619	6165	04-Nov-13	11042013-001.SSF	141808.2759	7570
722285.941	4294392.57	6407	04-Nov-13	11042013-001.SSF	141809.061	7571
722285.973	4294392.53	6679	04-Nov-13	11042013-001.SSF	141810.2002	7572
722285.912	4294392.571	6682	04-Nov-13	11042013-001.SSF	141811.0859	7573
722285.884	4294392.653	6278	04-Nov-13	11042013-001.SSF	141812.2271	7574
722285.898	4294392.67	6396	04-Nov-13	11042013-001.SSF	141813.1992	7575
722285.948	4294392.663	6575	04-Nov-13	11042013-001.SSF	141814.3042	7576
722286.015	4294392.595	6646	04-Nov-13	11042013-001.SSF	141815.2031	7577
722286.075	4294392.52	6941	04-Nov-13	11042013-001.SSF	141816.2192	7578
722286.095	4294392.509	6724	04-Nov-13	11042013-001.SSF	141817.1108	7579
722286.109	4294392.501	6707	04-Nov-13	11042013-001.SSF	141818.186	7580
722286.106	4294392.463	6705	04-Nov-13	11042013-001.SSF	141819.1431	7581
722286.073	4294392.438	6741	04-Nov-13	11042013-001.SSF	141820.292	7582

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722286.082	4294392.393	6424	04-Nov-13	11042013-001.SSF	141821.2178	7583
722286.073	4294392.336	6231	04-Nov-13	11042013-001.SSF	141822.2368	7584
722286.048	4294392.344	6032	04-Nov-13	11042013-001.SSF	141823.1191	7585
722286.036	4294392.389	6168	04-Nov-13	11042013-001.SSF	141824.3101	7586
722285.985	4294392.431	6304	04-Nov-13	11042013-001.SSF	141825.2832	7587
722285.933	4294392.481	6029	04-Nov-13	11042013-001.SSF	141826.3389	7588
722285.942	4294392.5	6158	04-Nov-13	11042013-001.SSF	141827.2891	7589
722285.963	4294392.483	6261	04-Nov-13	11042013-001.SSF	141828.3052	7590
722285.974	4294392.464	6357	04-Nov-13	11042013-001.SSF	141829.144	7591
722285.983	4294392.451	6133	04-Nov-13	11042013-001.SSF	141830.269	7592
722285.989	4294392.446	6195	04-Nov-13	11042013-001.SSF	141831.105	7593
722285.986	4294392.442	5824	04-Nov-13	11042013-001.SSF	141832.3442	7594
722285.984	4294392.429	6089	04-Nov-13	11042013-001.SSF	141833.271	7595
722285.985	4294392.419	5915	04-Nov-13	11042013-001.SSF	141834.1812	7596
722285.988	4294392.418	6177	04-Nov-13	11042013-001.SSF	141835.2632	7597
722285.988	4294392.41	6534	04-Nov-13	11042013-001.SSF	141836.2402	7598
722285.99	4294392.405	6218	04-Nov-13	11042013-001.SSF	141837.249	7599
722286	4294392.41	6227	04-Nov-13	11042013-001.SSF	141838.2739	7600
722286.003	4294392.425	7170	04-Nov-13	11042013-001.SSF	141839.0498	7601
722286.005	4294392.422	6786	04-Nov-13	11042013-001.SSF	141840.25	7602
722286.017	4294392.412	6337	04-Nov-13	11042013-001.SSF	141841.0562	7603
722286.062	4294392.389	6197	04-Nov-13	11042013-001.SSF	141842.2808	7604
722286.065	4294392.373	7266	04-Nov-13	11042013-001.SSF	141843.2222	7605
722286.051	4294392.372	6967	04-Nov-13	11042013-001.SSF	141844.2461	7606
722286.047	4294392.385	6461	04-Nov-13	11042013-001.SSF	141845.0918	7607
722286.051	4294392.385	6402	04-Nov-13	11042013-001.SSF	141846.2471	7608
722286.059	4294392.384	6128	04-Nov-13	11042013-001.SSF	141847.0942	7609
722286.065	4294392.38	6184	04-Nov-13	11042013-001.SSF	141848.2598	7610
722286.059	4294392.375	5939	04-Nov-13	11042013-001.SSF	141849.187	7611
722286.047	4294392.376	6085	04-Nov-13	11042013-001.SSF	141850.2559	7612
722286.051	4294392.375	6505	04-Nov-13	11042013-001.SSF	141851.0859	7613
722286.04	4294392.393	6637	04-Nov-13	11042013-001.SSF	141852.2061	7614
722285.948	4294392.447	6418	04-Nov-13	11042013-001.SSF	141853.1079	7615
722285.828	4294392.535	6370	04-Nov-13	11042013-001.SSF	141854.2412	7616
722285.808	4294392.591	7010	04-Nov-13	11042013-001.SSF	141855.0908	7617
722285.823	4294392.569	6771	04-Nov-13	11042013-001.SSF	141856.2441	7618
722285.821	4294392.544	6403	04-Nov-13	11042013-001.SSF	141857.1079	7619
722285.841	4294392.547	6819	04-Nov-13	11042013-001.SSF	141858.2969	7620
722285.862	4294392.558	6536	04-Nov-13	11042013-001.SSF	141859.0898	7621
722285.894	4294392.526	6466	04-Nov-13	11042013-001.SSF	141860.2969	7622
722285.867	4294392.501	6510	04-Nov-13	11042013-001.SSF	141861.1382	7623
722285.77	4294392.482	6669	04-Nov-13	11042013-001.SSF	141862.2979	7624
722285.769	4294392.446	6849	04-Nov-13	11042013-001.SSF	141863.2021	7625
722285.924	4294392.383	6680	04-Nov-13	11042013-001.SSF	141864.3271	7626
722286.029	4294392.379	6667	04-Nov-13	11042013-001.SSF	141865.0898	7627
722286.012	4294392.4	6008	04-Nov-13	11042013-001.SSF	141866.166	7628
722285.97	4294392.365	5449	04-Nov-13	11042013-001.SSF	141867.1641	7629

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.999	4294392.317	6012	04-Nov-13	11042013-001.SSF	141868.2969	7630
722286.018	4294392.306	5894	04-Nov-13	11042013-001.SSF	141869.0552	7631
722286.009	4294392.334	5970	04-Nov-13	11042013-001.SSF	141870.2622	7632
722286.01	4294392.346	5788	04-Nov-13	11042013-001.SSF	141871.1069	7633
722286.036	4294392.344	5603	04-Nov-13	11042013-001.SSF	141872.292	7634
722286.049	4294392.352	5724	04-Nov-13	11042013-001.SSF	141873.1401	7635
722286.047	4294392.369	5815	04-Nov-13	11042013-001.SSF	141874.293	7636
722286.044	4294392.387	5888	04-Nov-13	11042013-001.SSF	141875.0898	7637
722286.045	4294392.396	5832	04-Nov-13	11042013-001.SSF	141876.2681	7638
722286.045	4294392.416	5725	04-Nov-13	11042013-001.SSF	141877.1802	7639
722286.044	4294392.455	5598	04-Nov-13	11042013-001.SSF	141878.1909	7640
722286.031	4294392.478	5939	04-Nov-13	11042013-001.SSF	141879.0059	7641
722286.019	4294392.465	6025	04-Nov-13	11042013-001.SSF	141880.1538	7642
722286.015	4294392.451	5722	04-Nov-13	11042013-001.SSF	141881.167	7643
722286.016	4294392.442	5896	04-Nov-13	11042013-001.SSF	141882.1948	7644
722286.022	4294392.438	5844	04-Nov-13	11042013-001.SSF	141883.1768	7645
722286.029	4294392.439	5904	04-Nov-13	11042013-001.SSF	141884.3311	7646
722286.034	4294392.436	6216	04-Nov-13	11042013-001.SSF	141885.1079	7647
722286.033	4294392.418	6211	04-Nov-13	11042013-001.SSF	141886.3179	7648
722286.031	4294392.411	5939	04-Nov-13	11042013-001.SSF	141887.1001	7649
722286.03	4294392.417	5680	04-Nov-13	11042013-001.SSF	141888.29	7650
722286.027	4294392.42	5700	04-Nov-13	11042013-001.SSF	141889.064	7651
722286.026	4294392.419	5763	04-Nov-13	11042013-001.SSF	141890.187	7652
722286.022	4294392.426	5312	04-Nov-13	11042013-001.SSF	141891.2241	7653
722286.023	4294392.43	5643	04-Nov-13	11042013-001.SSF	141892.3579	7654
722286.02	4294392.436	5911	04-Nov-13	11042013-001.SSF	141893.2212	7655
722286.013	4294392.445	5792	04-Nov-13	11042013-001.SSF	141894.332	7656
722286.009	4294392.456	5508	04-Nov-13	11042013-001.SSF	141895.167	7657
722286.005	4294392.466	6001	04-Nov-13	11042013-001.SSF	141896.2319	7658
722286.001	4294392.459	6660	04-Nov-13	11042013-001.SSF	141897.1079	7659
722285.993	4294392.462	6368	04-Nov-13	11042013-001.SSF	141898.2412	7660
722285.986	4294392.469	6432	04-Nov-13	11042013-001.SSF	141899.123	7661
722285.984	4294392.464	6378	04-Nov-13	11042013-001.SSF	141900.3472	7662
722285.984	4294392.466	6175	04-Nov-13	11042013-001.SSF	141901.0801	7663
722285.918	4294392.557	6331	04-Nov-13	11042013-001.SSF	141902.3149	7664
722285.871	4294392.687	5931	04-Nov-13	11042013-001.SSF	141903.064	7665
722285.855	4294392.842	5586	04-Nov-13	11042013-001.SSF	141904.2148	7666
722285.862	4294392.958	5632	04-Nov-13	11042013-001.SSF	141904.9888	7667
722285.841	4294392.859	5808	04-Nov-13	11042013-001.SSF	141906.1421	7668
722285.82	4294392.773	5802	04-Nov-13	11042013-001.SSF	141907.0439	7669
722285.807	4294392.662	6016	04-Nov-13	11042013-001.SSF	141908.1538	7670
722285.798	4294392.631	5859	04-Nov-13	11042013-001.SSF	141908.978	7671
722285.795	4294392.626	6168	04-Nov-13	11042013-001.SSF	141910.231	7672
722285.789	4294392.633	6214	04-Nov-13	11042013-001.SSF	141911.1079	7673
722285.788	4294392.685	5835	04-Nov-13	11042013-001.SSF	141912.27	7674
722285.801	4294392.726	5877	04-Nov-13	11042013-001.SSF	141913.144	7675
722285.817	4294392.751	6036	04-Nov-13	11042013-001.SSF	141914.2192	7676

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.818	4294392.769	6485	04-Nov-13	11042013-001.SSF	141915.0869	7677
722285.812	4294392.773	6325	04-Nov-13	11042013-001.SSF	141916.1372	7678
722285.893	4294392.627	6070	04-Nov-13	11042013-001.SSF	141916.979	7679
722286.026	4294392.444	6317	04-Nov-13	11042013-001.SSF	141918.1509	7680
722286.038	4294392.462	6381	04-Nov-13	11042013-001.SSF	141919.0278	7681
722286.044	4294392.474	6191	04-Nov-13	11042013-001.SSF	141920.0791	7682
722286.041	4294392.48	6273	04-Nov-13	11042013-001.SSF	141921.0259	7683
722286.025	4294392.485	6206	04-Nov-13	11042013-001.SSF	141922.1421	7684
722286.013	4294392.497	6213	04-Nov-13	11042013-001.SSF	141923.186	7685
722286.005	4294392.523	6472	04-Nov-13	11042013-001.SSF	141924.1362	7686
722285.996	4294392.532	6258	04-Nov-13	11042013-001.SSF	141925.1699	7687
722285.99	4294392.527	6198	04-Nov-13	11042013-001.SSF	141926.2651	7688
722285.987	4294392.527	6066	04-Nov-13	11042013-001.SSF	141927.0762	7689
722285.992	4294392.528	5985	04-Nov-13	11042013-001.SSF	141928.2158	7690
722285.991	4294392.526	6351	04-Nov-13	11042013-001.SSF	141929.1509	7691
722285.992	4294392.525	5852	04-Nov-13	11042013-001.SSF	141930.2271	7692
722286	4294392.522	6329	04-Nov-13	11042013-001.SSF	141931.0879	7693
722285.998	4294392.521	6253	04-Nov-13	11042013-001.SSF	141932.311	7694
722285.996	4294392.518	6157	04-Nov-13	11042013-001.SSF	141933.2241	7695
722285.992	4294392.517	6156	04-Nov-13	11042013-001.SSF	141934.2969	7696
722285.989	4294392.51	6657	04-Nov-13	11042013-001.SSF	141935.0762	7697
722286.008	4294392.529	6992	04-Nov-13	11042013-001.SSF	141936.2129	7698
722286.089	4294392.639	6851	04-Nov-13	11042013-001.SSF	141937.0908	7699
722286.17	4294392.724	6808	04-Nov-13	11042013-001.SSF	141938.21	7700
722286.137	4294392.693	6574	04-Nov-13	11042013-001.SSF	141938.9639	7701
722286.084	4294392.636	6023	04-Nov-13	11042013-001.SSF	141940.2402	7702
722286.08	4294392.611	6500	04-Nov-13	11042013-001.SSF	141941.043	7703
722286.065	4294392.585	6094	04-Nov-13	11042013-001.SSF	141942.2241	7704
722286.069	4294392.578	5662	04-Nov-13	11042013-001.SSF	141943.0508	7705
722286.077	4294392.581	5765	04-Nov-13	11042013-001.SSF	141944.248	7706
722286.091	4294392.583	6213	04-Nov-13	11042013-001.SSF	141945.041	7707
722286.08	4294392.763	5895	04-Nov-13	11042013-001.SSF	141946.1831	7708
722286.046	4294392.947	6128	04-Nov-13	11042013-001.SSF	141947.0098	7709
722285.986	4294392.946	6342	04-Nov-13	11042013-001.SSF	141948.2012	7710
722285.965	4294392.809	6230	04-Nov-13	11042013-001.SSF	141949.061	7711
722285.999	4294392.639	5589	04-Nov-13	11042013-001.SSF	141950.2441	7712
722286.036	4294392.685	5619	04-Nov-13	11042013-001.SSF	141951.0801	7713
722286.248	4294393.114	5740	04-Nov-13	11042013-001.SSF	141952.1592	7714
722286.494	4294393.291	5786	04-Nov-13	11042013-001.SSF	141953.0981	7715
722286.302	4294393.109	5985	04-Nov-13	11042013-001.SSF	141954.2578	7716
722286.139	4294393.056	6381	04-Nov-13	11042013-001.SSF	141955.1089	7717
722286.248	4294392.943	6319	04-Nov-13	11042013-001.SSF	141956.2632	7718
722286.3	4294392.853	6030	04-Nov-13	11042013-001.SSF	141957.0469	7719
722286.268	4294392.813	6114	04-Nov-13	11042013-001.SSF	141958.124	7720
722286.234	4294392.808	6304	04-Nov-13	11042013-001.SSF	141959.0688	7721
722286.211	4294392.787	6268	04-Nov-13	11042013-001.SSF	141960.2378	7722
722286.186	4294392.771	6121	04-Nov-13	11042013-001.SSF	141961.1279	7723

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722286.156	4294392.757	6233	04-Nov-13	11042013-001.SSF	141962.1802	7724
722286.141	4294392.738	6056	04-Nov-13	11042013-001.SSF	141963.1641	7725
722286.139	4294392.742	6009	04-Nov-13	11042013-001.SSF	141964.1611	7726
722286.164	4294392.755	6155	04-Nov-13	11042013-001.SSF	141965.186	7727
722286.183	4294392.747	6357	04-Nov-13	11042013-001.SSF	141966.1851	7728
722286.18	4294392.71	6238	04-Nov-13	11042013-001.SSF	141967.082	7729
722286.135	4294392.627	6321	04-Nov-13	11042013-001.SSF	141968.2988	7730
722286.117	4294392.583	6105	04-Nov-13	11042013-001.SSF	141969.1011	7731
722286.131	4294392.539	6337	04-Nov-13	11042013-001.SSF	141970.2842	7732
722286.142	4294392.514	6377	04-Nov-13	11042013-001.SSF	141971.2031	7733
722286.142	4294392.515	6174	04-Nov-13	11042013-001.SSF	141972.2769	7734
722286.143	4294392.526	6083	04-Nov-13	11042013-001.SSF	141973.252	7735
722286.14	4294392.55	6069	04-Nov-13	11042013-001.SSF	141974.1938	7736
722286.13	4294392.573	5986	04-Nov-13	11042013-001.SSF	141975.0542	7737
722286.135	4294392.603	6195	04-Nov-13	11042013-001.SSF	141976.1812	7738
722286.138	4294392.623	6439	04-Nov-13	11042013-001.SSF	141977.1191	7739
722286.13	4294392.625	6075	04-Nov-13	11042013-001.SSF	141978.187	7740
722286.132	4294392.629	6019	04-Nov-13	11042013-001.SSF	141979.0508	7741
722286.139	4294392.637	6348	04-Nov-13	11042013-001.SSF	141980.2319	7742
722286.139	4294392.672	6556	04-Nov-13	11042013-001.SSF	141981.0869	7743
722286.037	4294392.808	6027	04-Nov-13	11042013-001.SSF	141982.2622	7744
722285.952	4294392.922	6278	04-Nov-13	11042013-001.SSF	141983.0601	7745
722285.946	4294392.946	6426	04-Nov-13	11042013-001.SSF	141984.1001	7746
722285.961	4294392.937	6030	04-Nov-13	11042013-001.SSF	141985.0811	7747
722285.926	4294392.822	6189	04-Nov-13	11042013-001.SSF	141986.105	7748
722285.868	4294392.707	6391	04-Nov-13	11042013-001.SSF	141987.1128	7749
722285.871	4294392.74	6197	04-Nov-13	11042013-001.SSF	141988.145	7750
722285.896	4294392.802	6223	04-Nov-13	11042013-001.SSF	141989.1118	7751
722285.905	4294392.804	6606	04-Nov-13	11042013-001.SSF	141990.165	7752
722285.907	4294392.791	6221	04-Nov-13	11042013-001.SSF	141991.0098	7753
722285.919	4294392.77	6424	04-Nov-13	11042013-001.SSF	141992.1128	7754
722285.929	4294392.757	6318	04-Nov-13	11042013-001.SSF	141992.9868	7755
722285.937	4294392.76	6550	04-Nov-13	11042013-001.SSF	141994.2061	7756
722285.944	4294392.76	6542	04-Nov-13	11042013-001.SSF	141995.1631	7757
722285.947	4294392.763	6732	04-Nov-13	11042013-001.SSF	141996.104	7758
722285.948	4294392.768	6854	04-Nov-13	11042013-001.SSF	141997.0801	7759
722285.96	4294392.763	6345	04-Nov-13	11042013-001.SSF	141998.208	7760
722285.959	4294392.769	6307	04-Nov-13	11042013-001.SSF	141999.0942	7761
722285.958	4294392.768	7020	04-Nov-13	11042013-001.SSF	142000.2158	7762
722285.957	4294392.771	6956	04-Nov-13	11042013-001.SSF	142001.0771	7763
722285.957	4294392.775	6500	04-Nov-13	11042013-001.SSF	142002.2158	7764
722285.956	4294392.78	6379	04-Nov-13	11042013-001.SSF	142003.0928	7765
722285.957	4294392.781	6228	04-Nov-13	11042013-001.SSF	142004.2632	7766
722285.952	4294392.785	6060	04-Nov-13	11042013-001.SSF	142005.0791	7767
722285.955	4294392.787	5764	04-Nov-13	11042013-001.SSF	142006.2842	7768
722285.96	4294392.797	5800	04-Nov-13	11042013-001.SSF	142007.064	7769
722285.968	4294392.805	6097	04-Nov-13	11042013-001.SSF	142008.269	7770

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722285.972	4294392.805	6084	04-Nov-13	11042013-001.SSF	142009.166	7771
722286	4294392.795	6032	04-Nov-13	11042013-001.SSF	142010.1509	7772
722286.128	4294392.715	5643	04-Nov-13	11042013-001.SSF	142011.0801	7773
722286.266	4294392.683	5972	04-Nov-13	11042013-001.SSF	142012.0991	7774
722286.263	4294392.758	6014	04-Nov-13	11042013-001.SSF	142013.061	7775
722286.218	4294392.831	5835	04-Nov-13	11042013-001.SSF	142014.0908	7776
722286.219	4294392.804	5975	04-Nov-13	11042013-001.SSF	142015.0269	7777
722286.116	4294392.771	6165	04-Nov-13	11042013-001.SSF	142016.0308	7778
722285.986	4294392.809	6296	04-Nov-13	11042013-001.SSF	142017.063	7779
722286.003	4294392.86	6534	04-Nov-13	11042013-001.SSF	142018.106	7780
722286.045	4294392.812	6900	04-Nov-13	11042013-001.SSF	142018.9888	7781
722286.267	4294392.661	6566	04-Nov-13	11042013-001.SSF	142020.2832	7782
722286.344	4294392.639	6626	04-Nov-13	11042013-001.SSF	142021.0439	7783
722286.315	4294392.651	6194	04-Nov-13	11042013-001.SSF	142022.1968	7784
722286.311	4294392.667	6304	04-Nov-13	11042013-001.SSF	142023.062	7785
722286.31	4294392.67	6388	04-Nov-13	11042013-001.SSF	142024.2251	7786
722286.32	4294392.663	6181	04-Nov-13	11042013-001.SSF	142025.1411	7787
722286.331	4294392.672	6071	04-Nov-13	11042013-001.SSF	142026.2549	7788
722286.342	4294392.679	6115	04-Nov-13	11042013-001.SSF	142027.1172	7789
722286.35	4294392.683	6230	04-Nov-13	11042013-001.SSF	142028.127	7790
722286.349	4294392.683	6234	04-Nov-13	11042013-001.SSF	142029.0581	7791
722286.34	4294392.68	6086	04-Nov-13	11042013-001.SSF	142030.2632	7792
722286.339	4294392.67	5696	04-Nov-13	11042013-001.SSF	142031.1519	7793
722286.343	4294392.657	6204	04-Nov-13	11042013-001.SSF	142032.2568	7794
722286.342	4294392.651	5919	04-Nov-13	11042013-001.SSF	142033.1011	7795
722286.333	4294392.654	5910	04-Nov-13	11042013-001.SSF	142034.1289	7796
722286.323	4294392.66	5739	04-Nov-13	11042013-001.SSF	142035.1348	7797
722286.316	4294392.67	6573	04-Nov-13	11042013-001.SSF	142036.2798	7798
722286.317	4294392.675	6000	04-Nov-13	11042013-001.SSF	142037.064	7799
722286.313	4294392.69	6277	04-Nov-13	11042013-001.SSF	142038.1528	7800
722286.316	4294392.695	6163	04-Nov-13	11042013-001.SSF	142039.1001	7801
722286.321	4294392.701	6512	04-Nov-13	11042013-001.SSF	142040.1519	7802
722286.325	4294392.713	6280	04-Nov-13	11042013-001.SSF	142041.0122	7803
722286.327	4294392.729	6390	04-Nov-13	11042013-001.SSF	142042.0898	7804
722286.322	4294392.738	6317	04-Nov-13	11042013-001.SSF	142043.0811	7805
722286.316	4294392.751	5848	04-Nov-13	11042013-001.SSF	142044.2041	7806
722286.305	4294392.773	5982	04-Nov-13	11042013-001.SSF	142045.0278	7807
722286.078	4294392.851	6365	04-Nov-13	11042013-001.SSF	142046.1328	7808
722285.88	4294392.905	6257	04-Nov-13	11042013-001.SSF	142047.0049	7809
722285.888	4294392.906	5942	04-Nov-13	11042013-001.SSF	142048.0679	7810
722285.96	4294392.875	5900	04-Nov-13	11042013-001.SSF	142049.019	7811
722285.968	4294392.834	6191	04-Nov-13	11042013-001.SSF	142050.0742	7812
722285.965	4294392.816	6250	04-Nov-13	11042013-001.SSF	142051.0391	7813
722285.985	4294392.845	5923	04-Nov-13	11042013-001.SSF	142052.0488	7814
722286.006	4294392.868	5889	04-Nov-13	11042013-001.SSF	142053.0649	7815
722286.043	4294392.906	6102	04-Nov-13	11042013-001.SSF	142054.1519	7816
722286.286	4294393.141	6042	04-Nov-13	11042013-001.SSF	142055.0791	7817

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.712	4294393.645	6504	04-Nov-13	11042013-001.SSF	142056.0928	7818
722287.178	4294393.803	6726	04-Nov-13	11042013-001.SSF	142057.0508	7819
722287.561	4294393.762	6506	04-Nov-13	11042013-001.SSF	142058.0562	7820
722287.624	4294393.742	6502	04-Nov-13	11042013-001.SSF	142058.9878	7821
722287.589	4294393.733	6380	04-Nov-13	11042013-001.SSF	142060.083	7822
722287.58	4294393.729	5973	04-Nov-13	11042013-001.SSF	142060.9878	7823
722287.58	4294393.713	5872	04-Nov-13	11042013-001.SSF	142062.2368	7824
722287.587	4294393.718	5928	04-Nov-13	11042013-001.SSF	142063.0239	7825
722287.604	4294393.738	5907	04-Nov-13	11042013-001.SSF	142064.126	7826
722287.622	4294393.864	5565	04-Nov-13	11042013-001.SSF	142065.0039	7827
722287.682	4294394.665	6543	04-Nov-13	11042013-001.SSF	142066.146	7828
722287.647	4294395.329	6523	04-Nov-13	11042013-001.SSF	142067.0518	7829
722287.659	4294395.979	5866	04-Nov-13	11042013-001.SSF	142068.1499	7830
722287.781	4294396.651	5677	04-Nov-13	11042013-001.SSF	142069.042	7831
722287.867	4294397.569	5796	04-Nov-13	11042013-001.SSF	142070.145	7832
722287.956	4294398.104	5712	04-Nov-13	11042013-001.SSF	142071.0801	7833
722288.065	4294398.469	5546	04-Nov-13	11042013-001.SSF	142072.145	7834
722288.105	4294398.684	5444	04-Nov-13	11042013-001.SSF	142073.082	7835
722288.045	4294398.75	5500	04-Nov-13	11042013-001.SSF	142074.103	7836
722287.909	4294398.981	5441	04-Nov-13	11042013-001.SSF	142075.1128	7837
722287.881	4294399.565	5618	04-Nov-13	11042013-001.SSF	142076.2251	7838
722287.823	4294399.996	5552	04-Nov-13	11042013-001.SSF	142077.0088	7839
722287.406	4294400.024	5613	04-Nov-13	11042013-001.SSF	142078.0801	7840
722287.082	4294399.851	6112	04-Nov-13	11042013-001.SSF	142079.062	7841
722287.033	4294399.897	5921	04-Nov-13	11042013-001.SSF	142080.2412	7842
722287.181	4294400.013	5895	04-Nov-13	11042013-001.SSF	142081.0542	7843
722287.368	4294400.247	6323	04-Nov-13	11042013-001.SSF	142082.1548	7844
722287.362	4294400.338	5942	04-Nov-13	11042013-001.SSF	142083.0771	7845
722287.378	4294400.363	6022	04-Nov-13	11042013-001.SSF	142084.105	7846
722287.368	4294400.404	5817	04-Nov-13	11042013-001.SSF	142085.022	7847
722287.258	4294400.363	5567	04-Nov-13	11042013-001.SSF	142086.0259	7848
722287.273	4294400.196	6026	04-Nov-13	11042013-001.SSF	142087.0308	7849
722287.117	4294400.296	5542	04-Nov-13	11042013-001.SSF	142088.1201	7850
722286.842	4294400.405	5982	04-Nov-13	11042013-001.SSF	142088.98	7851
722286.732	4294400.378	5352	04-Nov-13	11042013-001.SSF	142090.1558	7852
722286.745	4294400.377	4998	04-Nov-13	11042013-001.SSF	142090.918	7853
722286.735	4294400.357	5279	04-Nov-13	11042013-001.SSF	142092.104	7854
722286.73	4294400.333	5204	04-Nov-13	11042013-001.SSF	142092.958	7855
722286.717	4294400.347	5440	04-Nov-13	11042013-001.SSF	142094.0342	7856
722286.688	4294400.323	5587	04-Nov-13	11042013-001.SSF	142094.9722	7857
722286.667	4294400.287	5108	04-Nov-13	11042013-001.SSF	142096.0151	7858
722286.758	4294400.004	5513	04-Nov-13	11042013-001.SSF	142096.958	7859
722286.858	4294399.786	5718	04-Nov-13	11042013-001.SSF	142098.1021	7860
722286.832	4294399.766	5376	04-Nov-13	11042013-001.SSF	142099.0332	7861
722286.785	4294399.754	5289	04-Nov-13	11042013-001.SSF	142100.0718	7862
722286.765	4294399.746	5292	04-Nov-13	11042013-001.SSF	142100.957	7863
722286.742	4294399.78	5587	04-Nov-13	11042013-001.SSF	142102.1431	7864

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.727	4294399.779	5310	04-Nov-13	11042013-001.SSF	142102.959	7865
722286.666	4294399.852	5634	04-Nov-13	11042013-001.SSF	142104.0972	7866
722286.661	4294399.914	5299	04-Nov-13	11042013-001.SSF	142105.0181	7867
722286.713	4294399.952	5141	04-Nov-13	11042013-001.SSF	142106.0679	7868
722286.711	4294399.969	5044	04-Nov-13	11042013-001.SSF	142106.9839	7869
722286.611	4294399.997	5110	04-Nov-13	11042013-001.SSF	142108.1709	7870
722286.577	4294399.887	4921	04-Nov-13	11042013-001.SSF	142109.0518	7871
722286.684	4294399.814	5626	04-Nov-13	11042013-001.SSF	142110.1001	7872
722286.742	4294399.946	5782	04-Nov-13	11042013-001.SSF	142111.0488	7873
722286.736	4294400.054	5322	04-Nov-13	11042013-001.SSF	142112.0762	7874
722286.794	4294400.037	5221	04-Nov-13	11042013-001.SSF	142113.001	7875
722286.87	4294399.787	5404	04-Nov-13	11042013-001.SSF	142114.0889	7876
722286.842	4294399.603	5042	04-Nov-13	11042013-001.SSF	142115.1152	7877
722286.688	4294399.64	5326	04-Nov-13	11042013-001.SSF	142116.0571	7878
722286.87	4294399.577	5321	04-Nov-13	11042013-001.SSF	142117.0791	7879
722287.038	4294399.507	5093	04-Nov-13	11042013-001.SSF	142118.0972	7880
722286.95	4294399.508	4912	04-Nov-13	11042013-001.SSF	142119.022	7881
722286.966	4294399.538	5020	04-Nov-13	11042013-001.SSF	142120.0752	7882
722286.998	4294399.564	5464	04-Nov-13	11042013-001.SSF	142121.0171	7883
722287.014	4294399.587	5046	04-Nov-13	11042013-001.SSF	142122.1421	7884
722287.031	4294399.595	5066	04-Nov-13	11042013-001.SSF	142123.0352	7885
722287.057	4294399.603	5092	04-Nov-13	11042013-001.SSF	142124.1401	7886
722287.143	4294399.589	5294	04-Nov-13	11042013-001.SSF	142125.1401	7887
722287.167	4294399.599	5288	04-Nov-13	11042013-001.SSF	142126.085	7888
722287.132	4294399.658	5427	04-Nov-13	11042013-001.SSF	142127.0532	7889
722287.155	4294399.737	5640	04-Nov-13	11042013-001.SSF	142128.0869	7890
722287.097	4294399.775	5677	04-Nov-13	11042013-001.SSF	142129.0308	7891
722287.032	4294399.733	5533	04-Nov-13	11042013-001.SSF	142130.0742	7892
722287.145	4294399.611	5190	04-Nov-13	11042013-001.SSF	142131.0488	7893
722287.228	4294399.559	4974	04-Nov-13	11042013-001.SSF	142132.0571	7894
722287.229	4294399.569	5535	04-Nov-13	11042013-001.SSF	142133.0581	7895
722287.226	4294399.581	5326	04-Nov-13	11042013-001.SSF	142134.0669	7896
722287.177	4294399.699	5194	04-Nov-13	11042013-001.SSF	142134.957	7897
722287.201	4294399.844	5681	04-Nov-13	11042013-001.SSF	142136.1089	7898
722287.21	4294400.024	5535	04-Nov-13	11042013-001.SSF	142136.9819	7899
722287.188	4294400.016	5446	04-Nov-13	11042013-001.SSF	142138.0479	7900
722287.131	4294399.835	5568	04-Nov-13	11042013-001.SSF	142138.9961	7901
722287.029	4294399.783	5839	04-Nov-13	11042013-001.SSF	142140.1431	7902
722287.049	4294399.823	5745	04-Nov-13	11042013-001.SSF	142141.0259	7903
722287.082	4294399.854	5706	04-Nov-13	11042013-001.SSF	142142.1182	7904
722287.085	4294399.859	5205	04-Nov-13	11042013-001.SSF	142143.0322	7905
722287.092	4294399.868	5252	04-Nov-13	11042013-001.SSF	142144.1572	7906
722287.093	4294399.892	5864	04-Nov-13	11042013-001.SSF	142145.0288	7907
722287.089	4294399.896	5556	04-Nov-13	11042013-001.SSF	142146.0972	7908
722287.091	4294399.895	5098	04-Nov-13	11042013-001.SSF	142146.917	7909
722287.336	4294399.893	5432	04-Nov-13	11042013-001.SSF	142148.0542	7910
722287.453	4294400.016	5688	04-Nov-13	11042013-001.SSF	142148.9199	7911

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.32	4294400.198	5689	04-Nov-13	11042013-001.SSF	142150.0811	7912
722287.256	4294400.207	5825	04-Nov-13	11042013-001.SSF	142151.022	7913
722287.249	4294400.151	5969	04-Nov-13	11042013-001.SSF	142152.061	7914
722287.276	4294400.197	5592	04-Nov-13	11042013-001.SSF	142153.0098	7915
722287.283	4294400.231	5388	04-Nov-13	11042013-001.SSF	142154.084	7916
722287.275	4294400.244	5671	04-Nov-13	11042013-001.SSF	142155.084	7917
722287.27	4294400.216	5567	04-Nov-13	11042013-001.SSF	142156.2119	7918
722287.273	4294400.203	5509	04-Nov-13	11042013-001.SSF	142157.0742	7919
722287.405	4294400.189	5356	04-Nov-13	11042013-001.SSF	142158.1289	7920
722287.442	4294400.248	5255	04-Nov-13	11042013-001.SSF	142159.041	7921
722287.453	4294400.305	4831	04-Nov-13	11042013-001.SSF	142160.1821	7922
722287.545	4294400.063	4855	04-Nov-13	11042013-001.SSF	142160.9751	7923
722287.743	4294399.469	4801	04-Nov-13	11042013-001.SSF	142162.0781	7924
722287.974	4294398.974	5273	04-Nov-13	11042013-001.SSF	142162.9009	7925
722288.364	4294398.276	5298	04-Nov-13	11042013-001.SSF	142164.0269	7926
722288.795	4294397.55	5440	04-Nov-13	11042013-001.SSF	142164.9629	7927
722289.289	4294396.551	5730	04-Nov-13	11042013-001.SSF	142166.0342	7928
722289.092	4294395.701	5195	04-Nov-13	11042013-001.SSF	142166.96	7929
722288.419	4294394.735	5465	04-Nov-13	11042013-001.SSF	142168.0972	7930
722287.673	4294394.024	6119	04-Nov-13	11042013-001.SSF	142168.9761	7931
722286.785	4294393.356	6149	04-Nov-13	11042013-001.SSF	142170.0732	7932
722286.184	4294393.227	5994	04-Nov-13	11042013-001.SSF	142170.9932	7933
722285.678	4294393.489	6281	04-Nov-13	11042013-001.SSF	142172.0098	7934
722285.549	4294393.71	6225	04-Nov-13	11042013-001.SSF	142172.9312	7935
722285.715	4294393.681	6712	04-Nov-13	11042013-001.SSF	142174.1362	7936
722285.803	4294393.629	7128	04-Nov-13	11042013-001.SSF	142174.998	7937
722285.87	4294393.648	6469	04-Nov-13	11042013-001.SSF	142176.0269	7938
722285.879	4294393.577	6682	04-Nov-13	11042013-001.SSF	142177.0068	7939
722285.898	4294393.505	7208	04-Nov-13	11042013-001.SSF	142178.0381	7940
722285.906	4294393.479	7092	04-Nov-13	11042013-001.SSF	142178.9849	7941
722286.058	4294393.676	6832	04-Nov-13	11042013-001.SSF	142180.082	7942
722286.148	4294393.796	6603	04-Nov-13	11042013-001.SSF	142181.0171	7943
722286.039	4294393.664	6106	04-Nov-13	11042013-001.SSF	142182.1948	7944
722286.034	4294393.588	6202	04-Nov-13	11042013-001.SSF	142182.958	7945
722286.055	4294393.566	6068	04-Nov-13	11042013-001.SSF	142184.0508	7946
722286.038	4294393.543	6368	04-Nov-13	11042013-001.SSF	142185.0112	7947
722285.996	4294393.519	5787	04-Nov-13	11042013-001.SSF	142186.0518	7948
722285.965	4294393.497	6195	04-Nov-13	11042013-001.SSF	142187.0732	7949
722285.981	4294393.475	6499	04-Nov-13	11042013-001.SSF	142188.0732	7950
722285.994	4294393.458	6258	04-Nov-13	11042013-001.SSF	142189.0459	7951
722286.01	4294393.449	6528	04-Nov-13	11042013-001.SSF	142190.0801	7952
722286.002	4294393.443	6762	04-Nov-13	11042013-001.SSF	142190.9878	7953
722286.008	4294393.521	6593	04-Nov-13	11042013-001.SSF	142192.084	7954
722286.065	4294393.606	6731	04-Nov-13	11042013-001.SSF	142193.085	7955
722286.09	4294393.619	6486	04-Nov-13	11042013-001.SSF	142194.021	7956
722286.08	4294393.595	6356	04-Nov-13	11042013-001.SSF	142195.0518	7957
722286.091	4294393.584	6447	04-Nov-13	11042013-001.SSF	142196.1362	7958

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.092	4294393.591	6814	04-Nov-13	11042013-001.SSF	142196.8501	7959
722286.089	4294393.623	6210	04-Nov-13	11042013-001.SSF	142197.9341	7960
722286.111	4294393.612	6328	04-Nov-13	11042013-001.SSF	142199.0322	7961
722286.102	4294393.573	5742	04-Nov-13	11042013-001.SSF	142200.124	7962
722286.071	4294393.565	5675	04-Nov-13	11042013-001.SSF	142200.9951	7963
722286.077	4294393.596	5959	04-Nov-13	11042013-001.SSF	142202.127	7964
722286.09	4294393.601	6112	04-Nov-13	11042013-001.SSF	142203.0029	7965
722286.114	4294393.604	6490	04-Nov-13	11042013-001.SSF	142204.0928	7966
722286.124	4294393.619	6298	04-Nov-13	11042013-001.SSF	142205.0229	7967
722286.099	4294393.639	5853	04-Nov-13	11042013-001.SSF	142206.0811	7968
722286.091	4294393.65	6322	04-Nov-13	11042013-001.SSF	142207.0039	7969
722285.998	4294393.472	6211	04-Nov-13	11042013-001.SSF	142208.0098	7970
722285.909	4294393.341	6268	04-Nov-13	11042013-001.SSF	142208.937	7971
722285.947	4294393.323	6443	04-Nov-13	11042013-001.SSF	142210.0679	7972
722285.992	4294393.337	6017	04-Nov-13	11042013-001.SSF	142210.9961	7973
722285.996	4294393.368	5769	04-Nov-13	11042013-001.SSF	142212.1611	7974
722285.986	4294393.38	6058	04-Nov-13	11042013-001.SSF	142213.0479	7975
722285.981	4294393.401	5755	04-Nov-13	11042013-001.SSF	142214.1279	7976
722285.971	4294393.399	5884	04-Nov-13	11042013-001.SSF	142214.9438	7977
722285.958	4294393.411	6160	04-Nov-13	11042013-001.SSF	142216.0239	7978
722285.949	4294393.408	6142	04-Nov-13	11042013-001.SSF	142216.9639	7979
722285.962	4294393.414	5990	04-Nov-13	11042013-001.SSF	142218.0869	7980
722285.977	4294393.389	5769	04-Nov-13	11042013-001.SSF	142218.9438	7981
722285.975	4294393.375	5885	04-Nov-13	11042013-001.SSF	142220.2861	7982
722285.959	4294393.364	6265	04-Nov-13	11042013-001.SSF	142220.9648	7983
722285.941	4294393.356	6517	04-Nov-13	11042013-001.SSF	142222.0859	7984
722285.947	4294393.357	6005	04-Nov-13	11042013-001.SSF	142223.0322	7985
722285.965	4294393.438	6205	04-Nov-13	11042013-001.SSF	142224.0229	7986
722285.988	4294393.534	6670	04-Nov-13	11042013-001.SSF	142224.9692	7987
722285.992	4294393.546	6864	04-Nov-13	11042013-001.SSF	142226.1348	7988
722285.943	4294393.544	6441	04-Nov-13	11042013-001.SSF	142226.9878	7989
722285.884	4294393.524	6623	04-Nov-13	11042013-001.SSF	142228.1172	7990
722285.835	4294393.503	6200	04-Nov-13	11042013-001.SSF	142228.981	7991
722285.821	4294393.514	6120	04-Nov-13	11042013-001.SSF	142230.0791	7992
722285.827	4294393.51	5722	04-Nov-13	11042013-001.SSF	142231.0029	7993
722285.803	4294393.431	5679	04-Nov-13	11042013-001.SSF	142232.0361	7994
722285.735	4294393.341	6067	04-Nov-13	11042013-001.SSF	142232.9648	7995
722285.628	4294393.258	5460	04-Nov-13	11042013-001.SSF	142234.0718	7996
722285.638	4294393.247	5366	04-Nov-13	11042013-001.SSF	142235.001	7997
722285.663	4294393.26	5441	04-Nov-13	11042013-001.SSF	142236.04	7998
722285.595	4294393.213	6135	04-Nov-13	11042013-001.SSF	142236.9712	7999
722285.659	4294393.212	6263	04-Nov-13	11042013-001.SSF	142238.0352	8000
722285.818	4294393.312	6246	04-Nov-13	11042013-001.SSF	142238.9722	8001
722285.908	4294393.348	6116	04-Nov-13	11042013-001.SSF	142240.0762	8002
722285.923	4294393.277	6012	04-Nov-13	11042013-001.SSF	142241.0918	8003
722285.883	4294393.214	6022	04-Nov-13	11042013-001.SSF	142242.0342	8004
722285.832	4294393.214	6125	04-Nov-13	11042013-001.SSF	142242.9639	8005

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.795	4294393.195	6542	04-Nov-13	11042013-001.SSF	142244.04	8006
722285.79	4294393.176	6305	04-Nov-13	11042013-001.SSF	142245.0068	8007
722285.783	4294393.164	6509	04-Nov-13	11042013-001.SSF	142246.0151	8008
722285.767	4294393.182	6151	04-Nov-13	11042013-001.SSF	142246.958	8009
722285.727	4294393.212	6355	04-Nov-13	11042013-001.SSF	142248.0449	8010
722285.719	4294393.217	6042	04-Nov-13	11042013-001.SSF	142248.9302	8011
722285.695	4294393.197	6203	04-Nov-13	11042013-001.SSF	142250.1382	8012
722285.682	4294393.198	6032	04-Nov-13	11042013-001.SSF	142251.002	8013
722285.695	4294393.196	6798	04-Nov-13	11042013-001.SSF	142252.0898	8014
722285.679	4294393.188	6921	04-Nov-13	11042013-001.SSF	142253.019	8015
722285.686	4294393.19	6345	04-Nov-13	11042013-001.SSF	142254.1201	8016
722285.704	4294393.201	6337	04-Nov-13	11042013-001.SSF	142255.0591	8017
722285.729	4294393.198	6099	04-Nov-13	11042013-001.SSF	142256.0571	8018
722285.759	4294393.2	6326	04-Nov-13	11042013-001.SSF	142256.9268	8019
722285.736	4294393.154	6521	04-Nov-13	11042013-001.SSF	142257.9912	8020
722285.692	4294393.161	6593	04-Nov-13	11042013-001.SSF	142258.9292	8021
722285.708	4294393.224	6228	04-Nov-13	11042013-001.SSF	142259.9878	8022
722285.71	4294393.243	6286	04-Nov-13	11042013-001.SSF	142260.9209	8023
722285.707	4294393.253	5996	04-Nov-13	11042013-001.SSF	142262.0049	8024
722285.685	4294393.246	5915	04-Nov-13	11042013-001.SSF	142262.9229	8025
722285.709	4294393.265	6094	04-Nov-13	11042013-001.SSF	142264.0269	8026
722285.717	4294393.253	6428	04-Nov-13	11042013-001.SSF	142264.9521	8027
722285.708	4294393.247	6406	04-Nov-13	11042013-001.SSF	142266.0698	8028
722285.725	4294393.237	6296	04-Nov-13	11042013-001.SSF	142266.9868	8029
722285.692	4294393.262	6316	04-Nov-13	11042013-001.SSF	142268.0161	8030
722285.705	4294393.235	6230	04-Nov-13	11042013-001.SSF	142268.9609	8031
722285.716	4294393.201	5642	04-Nov-13	11042013-001.SSF	142270.0879	8032
722285.661	4294393.158	6241	04-Nov-13	11042013-001.SSF	142270.894	8033
722285.627	4294393.044	6315	04-Nov-13	11042013-001.SSF	142272.043	8034
722285.643	4294393.036	6237	04-Nov-13	11042013-001.SSF	142272.981	8035
722285.637	4294393.071	6418	04-Nov-13	11042013-001.SSF	142273.96	8036
722285.616	4294393.142	6715	04-Nov-13	11042013-001.SSF	142276.0098	8038
722285.634	4294393.186	6365	04-Nov-13	11042013-001.SSF	142276.957	8039
722285.705	4294393.19	5807	04-Nov-13	11042013-001.SSF	142278.0298	8040
722285.747	4294393.185	5681	04-Nov-13	11042013-001.SSF	142278.9829	8041
722285.705	4294393.134	6031	04-Nov-13	11042013-001.SSF	142279.9858	8042
722285.731	4294393.218	6497	04-Nov-13	11042013-001.SSF	142281.1011	8043
722285.873	4294393.352	6415	04-Nov-13	11042013-001.SSF	142282.0811	8044
722285.819	4294393.356	6450	04-Nov-13	11042013-001.SSF	142282.896	8045
722285.575	4294393.137	6231	04-Nov-13	11042013-001.SSF	142284.0742	8046
722285.588	4294393.135	6220	04-Nov-13	11042013-001.SSF	142285.1089	8047
722285.639	4294393.224	6371	04-Nov-13	11042013-001.SSF	142285.9531	8048
722285.611	4294393.267	6666	04-Nov-13	11042013-001.SSF	142286.8511	8049
722285.611	4294393.275	6697	04-Nov-13	11042013-001.SSF	142288.1021	8050
722285.658	4294393.245	6774	04-Nov-13	11042013-001.SSF	142288.9888	8051
722285.701	4294393.234	6270	04-Nov-13	11042013-001.SSF	142290.1021	8052
722285.711	4294393.249	6069	04-Nov-13	11042013-001.SSF	142290.9888	8053

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.715	4294393.237	5866	04-Nov-13	11042013-001.SSF	142292.1929	8054
722285.722	4294393.225	5640	04-Nov-13	11042013-001.SSF	142292.9961	8055
722285.753	4294393.251	5887	04-Nov-13	11042013-001.SSF	142294.0239	8056
722285.773	4294393.294	6409	04-Nov-13	11042013-001.SSF	142294.9731	8057
722285.733	4294393.317	6440	04-Nov-13	11042013-001.SSF	142296.082	8058
722285.716	4294393.331	6457	04-Nov-13	11042013-001.SSF	142296.999	8059
722285.724	4294393.312	6265	04-Nov-13	11042013-001.SSF	142298.125	8060
722285.704	4294393.315	5796	04-Nov-13	11042013-001.SSF	142299.002	8061
722285.653	4294393.32	6043	04-Nov-13	11042013-001.SSF	142300.0269	8062
722285.665	4294393.281	6376	04-Nov-13	11042013-001.SSF	142300.8198	8063
722285.705	4294393.221	6729	04-Nov-13	11042013-001.SSF	142301.8989	8064
722285.701	4294393.237	7047	04-Nov-13	11042013-001.SSF	142302.9551	8065
722285.711	4294393.315	6356	04-Nov-13	11042013-001.SSF	142303.9761	8066
722285.702	4294393.349	6200	04-Nov-13	11042013-001.SSF	142304.8262	8067
722285.649	4294393.33	6428	04-Nov-13	11042013-001.SSF	142305.9321	8068
722285.702	4294393.343	6375	04-Nov-13	11042013-001.SSF	142306.8901	8069
722285.743	4294393.354	6533	04-Nov-13	11042013-001.SSF	142307.939	8070
722285.728	4294393.351	6885	04-Nov-13	11042013-001.SSF	142308.772	8071
722285.783	4294393.4	6490	04-Nov-13	11042013-001.SSF	142309.9468	8072
722285.864	4294393.47	6733	04-Nov-13	11042013-001.SSF	142310.9258	8073
722285.842	4294393.481	6622	04-Nov-13	11042013-001.SSF	142312.062	8074
722285.803	4294393.493	6132	04-Nov-13	11042013-001.SSF	142312.9551	8075
722285.799	4294393.486	6532	04-Nov-13	11042013-001.SSF	142314.0112	8076
722285.797	4294393.481	6037	04-Nov-13	11042013-001.SSF	142314.8032	8077
722285.772	4294393.457	6275	04-Nov-13	11042013-001.SSF	142316.1929	8078
722285.762	4294393.42	5787	04-Nov-13	11042013-001.SSF	142316.9482	8079
722285.697	4294393.231	6053	04-Nov-13	11042013-001.SSF	142317.9941	8080
722285.614	4294393.105	6330	04-Nov-13	11042013-001.SSF	142318.9658	8081
722285.615	4294393.121	6148	04-Nov-13	11042013-001.SSF	142320.0439	8082
722285.644	4294393.142	6398	04-Nov-13	11042013-001.SSF	142320.9458	8083
722285.647	4294393.128	6531	04-Nov-13	11042013-001.SSF	142321.9731	8084
722285.662	4294393.151	6606	04-Nov-13	11042013-001.SSF	142322.9941	8085
722285.656	4294393.172	6296	04-Nov-13	11042013-001.SSF	142324.0811	8086
722285.645	4294393.172	5994	04-Nov-13	11042013-001.SSF	142325.0078	8087
722285.629	4294393.142	6649	04-Nov-13	11042013-001.SSF	142326.0059	8088
722285.648	4294393.131	6365	04-Nov-13	11042013-001.SSF	142326.854	8089
722285.711	4294393.128	6348	04-Nov-13	11042013-001.SSF	142328.061	8090
722285.721	4294393.114	5993	04-Nov-13	11042013-001.SSF	142328.854	8091
722285.696	4294393.105	5966	04-Nov-13	11042013-001.SSF	142330.1348	8092
722285.661	4294393.13	5808	04-Nov-13	11042013-001.SSF	142330.9668	8093
722285.747	4294393.214	5742	04-Nov-13	11042013-001.SSF	142332.1572	8094
722285.728	4294393.187	5495	04-Nov-13	11042013-001.SSF	142332.8931	8095
722285.8	4294393.108	5993	04-Nov-13	11042013-001.SSF	142334.125	8096
722285.987	4294393.144	6348	04-Nov-13	11042013-001.SSF	142335.0068	8097
722285.964	4294393.159	6173	04-Nov-13	11042013-001.SSF	142336.0552	8098
722285.799	4294393.153	6480	04-Nov-13	11042013-001.SSF	142336.9731	8099
722285.704	4294393.157	6240	04-Nov-13	11042013-001.SSF	142338.0581	8100

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.707	4294393.165	6022	04-Nov-13	11042013-001.SSF	142338.9829	8101
722285.705	4294393.181	6140	04-Nov-13	11042013-001.SSF	142340.082	8102
722285.739	4294393.177	6356	04-Nov-13	11042013-001.SSF	142340.9038	8103
722285.79	4294393.219	6365	04-Nov-13	11042013-001.SSF	142342.0439	8104
722285.784	4294393.244	6610	04-Nov-13	11042013-001.SSF	142342.978	8105
722285.798	4294393.265	6868	04-Nov-13	11042013-001.SSF	142343.9878	8106
722285.79	4294393.312	6271	04-Nov-13	11042013-001.SSF	142344.8462	8107
722285.688	4294393.316	6490	04-Nov-13	11042013-001.SSF	142346.0059	8108
722285.67	4294393.292	7010	04-Nov-13	11042013-001.SSF	142346.9531	8109
722285.735	4294393.3	6853	04-Nov-13	11042013-001.SSF	142348.062	8110
722285.759	4294393.296	6930	04-Nov-13	11042013-001.SSF	142348.8901	8111
722285.757	4294393.272	6403	04-Nov-13	11042013-001.SSF	142350.0771	8112
722285.682	4294393.264	6309	04-Nov-13	11042013-001.SSF	142351.0049	8113
722285.535	4294393.165	6406	04-Nov-13	11042013-001.SSF	142352.0059	8114
722285.541	4294393.131	6326	04-Nov-13	11042013-001.SSF	142352.895	8115
722285.584	4294393.163	6296	04-Nov-13	11042013-001.SSF	142354.0718	8116
722285.55	4294393.205	6352	04-Nov-13	11042013-001.SSF	142356.019	8118
722285.562	4294393.195	6416	04-Nov-13	11042013-001.SSF	142356.8291	8119
722285.558	4294393.198	6136	04-Nov-13	11042013-001.SSF	142358.0112	8120
722285.53	4294393.173	6496	04-Nov-13	11042013-001.SSF	142358.9629	8121
722285.478	4294393.116	6114	04-Nov-13	11042013-001.SSF	142359.9678	8122
722285.422	4294393.084	6394	04-Nov-13	11042013-001.SSF	142360.9922	8123
722285.455	4294393.103	6124	04-Nov-13	11042013-001.SSF	142362.019	8124
722285.516	4294393.125	6287	04-Nov-13	11042013-001.SSF	142362.9189	8125
722285.535	4294393.151	6716	04-Nov-13	11042013-001.SSF	142364.0698	8126
722285.513	4294393.183	6620	04-Nov-13	11042013-001.SSF	142364.9512	8127
722285.521	4294393.2	6349	04-Nov-13	11042013-001.SSF	142365.918	8128
722285.526	4294393.149	6218	04-Nov-13	11042013-001.SSF	142366.853	8129
722285.552	4294393.136	6678	04-Nov-13	11042013-001.SSF	142368.0459	8130
722285.597	4294393.139	6374	04-Nov-13	11042013-001.SSF	142368.855	8131
722285.594	4294393.124	6532	04-Nov-13	11042013-001.SSF	142370.019	8132
722285.578	4294393.141	6644	04-Nov-13	11042013-001.SSF	142370.9219	8133
722285.52	4294393.177	6392	04-Nov-13	11042013-001.SSF	142371.938	8134
722285.461	4294393.169	5928	04-Nov-13	11042013-001.SSF	142372.8042	8135
722285.433	4294393.144	5772	04-Nov-13	11042013-001.SSF	142374.0391	8136
722285.449	4294393.141	6277	04-Nov-13	11042013-001.SSF	142374.9209	8137
722285.533	4294393.18	5570	04-Nov-13	11042013-001.SSF	142376.0469	8138
722285.745	4294393.291	5301	04-Nov-13	11042013-001.SSF	142376.9902	8139
722285.924	4294393.343	5704	04-Nov-13	11042013-001.SSF	142377.9951	8140
722285.84	4294393.251	5758	04-Nov-13	11042013-001.SSF	142378.9888	8141
722285.747	4294393.17	6149	04-Nov-13	11042013-001.SSF	142380.0908	8142
722285.769	4294393.169	5491	04-Nov-13	11042013-001.SSF	142380.8799	8143
722285.81	4294393.196	5901	04-Nov-13	11042013-001.SSF	142382.0391	8144
722285.857	4294393.218	5794	04-Nov-13	11042013-001.SSF	142382.9302	8145
722285.827	4294393.257	6454	04-Nov-13	11042013-001.SSF	142383.9448	8146
722285.727	4294393.265	6015	04-Nov-13	11042013-001.SSF	142384.9448	8147
722285.671	4294393.268	6346	04-Nov-13	11042013-001.SSF	142385.9209	8148

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.648	4294393.25	6225	04-Nov-13	11042013-001.SSF	142386.874	8149
722285.671	4294393.252	6389	04-Nov-13	11042013-001.SSF	142387.938	8150
722285.673	4294393.242	5986	04-Nov-13	11042013-001.SSF	142388.8032	8151
722285.592	4294393.199	6164	04-Nov-13	11042013-001.SSF	142390.0391	8152
722285.546	4294393.169	6370	04-Nov-13	11042013-001.SSF	142390.9912	8153
722285.599	4294393.205	6148	04-Nov-13	11042013-001.SSF	142391.9868	8154
722285.667	4294393.241	6158	04-Nov-13	11042013-001.SSF	142392.9868	8155
722285.718	4294393.237	6089	04-Nov-13	11042013-001.SSF	142394.0229	8156
722285.707	4294393.221	6177	04-Nov-13	11042013-001.SSF	142394.9429	8157
722285.723	4294393.217	6047	04-Nov-13	11042013-001.SSF	142395.9038	8158
722285.725	4294393.214	6596	04-Nov-13	11042013-001.SSF	142396.8208	8159
722285.747	4294393.2	6005	04-Nov-13	11042013-001.SSF	142397.9238	8160
722285.646	4294393.169	6280	04-Nov-13	11042013-001.SSF	142398.8242	8161
722285.458	4294393.164	5925	04-Nov-13	11042013-001.SSF	142399.9209	8162
722285.439	4294393.141	6408	04-Nov-13	11042013-001.SSF	142400.8218	8163
722285.445	4294393.111	6147	04-Nov-13	11042013-001.SSF	142401.915	8164
722285.449	4294393.105	6142	04-Nov-13	11042013-001.SSF	142402.8281	8165
722285.48	4294393.107	6372	04-Nov-13	11042013-001.SSF	142403.8721	8166
722285.497	4294393.11	6044	04-Nov-13	11042013-001.SSF	142404.7998	8167
722285.483	4294393.2	6017	04-Nov-13	11042013-001.SSF	142405.9219	8168
722285.57	4294393.272	6595	04-Nov-13	11042013-001.SSF	142406.979	8169
722285.687	4294393.255	6117	04-Nov-13	11042013-001.SSF	142408.0991	8170
722285.673	4294393.243	6156	04-Nov-13	11042013-001.SSF	142408.9878	8171
722285.642	4294393.229	5967	04-Nov-13	11042013-001.SSF	142410.0869	8172
722285.648	4294393.226	5899	04-Nov-13	11042013-001.SSF	142410.9868	8173
722285.651	4294393.228	6078	04-Nov-13	11042013-001.SSF	142411.9858	8174
722285.637	4294393.224	6111	04-Nov-13	11042013-001.SSF	142412.8652	8175
722285.638	4294393.201	6145	04-Nov-13	11042013-001.SSF	142413.9878	8176
722285.649	4294393.195	6306	04-Nov-13	11042013-001.SSF	142414.9858	8177
722285.648	4294393.198	6262	04-Nov-13	11042013-001.SSF	142415.9209	8178
722285.658	4294393.196	6387	04-Nov-13	11042013-001.SSF	142416.8721	8179
722285.672	4294393.207	6533	04-Nov-13	11042013-001.SSF	142418.0049	8180
722285.674	4294393.213	6652	04-Nov-13	11042013-001.SSF	142418.8501	8181
722285.673	4294393.219	6764	04-Nov-13	11042013-001.SSF	142420.0029	8182
722285.658	4294393.216	6677	04-Nov-13	11042013-001.SSF	142420.8291	8183
722285.652	4294393.206	6703	04-Nov-13	11042013-001.SSF	142422.0142	8184
722285.644	4294393.203	6748	04-Nov-13	11042013-001.SSF	142422.856	8185
722285.629	4294393.193	7058	04-Nov-13	11042013-001.SSF	142423.9561	8186
722285.609	4294393.157	6745	04-Nov-13	11042013-001.SSF	142424.957	8187
722285.593	4294393.142	6576	04-Nov-13	11042013-001.SSF	142425.978	8188
722285.566	4294393.157	6639	04-Nov-13	11042013-001.SSF	142426.8511	8189
722285.54	4294393.159	6644	04-Nov-13	11042013-001.SSF	142428.0352	8190
722285.571	4294393.163	6265	04-Nov-13	11042013-001.SSF	142428.9819	8191
722285.591	4294393.157	6434	04-Nov-13	11042013-001.SSF	142430.0239	8192
722285.602	4294393.148	6559	04-Nov-13	11042013-001.SSF	142430.9512	8193
722285.596	4294393.144	6682	04-Nov-13	11042013-001.SSF	142432	8194
722285.588	4294393.141	6323	04-Nov-13	11042013-001.SSF	142432.8311	8195

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.592	4294393.145	6504	04-Nov-13	11042013-001.SSF	142434.019	8196
722285.6	4294393.14	6704	04-Nov-13	11042013-001.SSF	142434.9502	8197
722285.603	4294393.141	6178	04-Nov-13	11042013-001.SSF	142436.0161	8198
722285.6	4294393.136	5785	04-Nov-13	11042013-001.SSF	142436.8408	8199
722285.61	4294393.138	6096	04-Nov-13	11042013-001.SSF	142438.0649	8200
722285.613	4294393.129	5972	04-Nov-13	11042013-001.SSF	142438.833	8201
722285.611	4294393.12	6059	04-Nov-13	11042013-001.SSF	142439.998	8202
722285.615	4294393.136	6018	04-Nov-13	11042013-001.SSF	142440.8691	8203
722285.611	4294393.121	6243	04-Nov-13	11042013-001.SSF	142442.0239	8204
722285.616	4294393.154	6151	04-Nov-13	11042013-001.SSF	142442.8242	8205
722285.609	4294393.197	5657	04-Nov-13	11042013-001.SSF	142444.0679	8206
722285.595	4294393.172	5912	04-Nov-13	11042013-001.SSF	142444.8579	8207
722285.626	4294393.164	5928	04-Nov-13	11042013-001.SSF	142445.9619	8208
722285.644	4294393.164	6094	04-Nov-13	11042013-001.SSF	142446.8042	8209
722285.63	4294393.153	6053	04-Nov-13	11042013-001.SSF	142447.959	8210
722285.636	4294393.142	6052	04-Nov-13	11042013-001.SSF	142448.8062	8211
722285.654	4294393.144	6082	04-Nov-13	11042013-001.SSF	142450.0151	8212
722285.645	4294393.142	5678	04-Nov-13	11042013-001.SSF	142450.8462	8213
722285.636	4294393.13	5496	04-Nov-13	11042013-001.SSF	142451.9268	8214
722285.626	4294393.097	5897	04-Nov-13	11042013-001.SSF	142452.8521	8215
722285.575	4294393.002	6512	04-Nov-13	11042013-001.SSF	142453.8662	8216
722285.588	4294393.075	6250	04-Nov-13	11042013-001.SSF	142454.813	8217
722285.662	4294393.206	6268	04-Nov-13	11042013-001.SSF	142455.8799	8218
722285.679	4294393.199	6631	04-Nov-13	11042013-001.SSF	142456.8599	8219
722285.678	4294393.185	6302	04-Nov-13	11042013-001.SSF	142457.9258	8220
722285.673	4294393.212	6387	04-Nov-13	11042013-001.SSF	142458.814	8221
722285.68	4294393.268	6653	04-Nov-13	11042013-001.SSF	142459.875	8222
722285.688	4294393.284	6135	04-Nov-13	11042013-001.SSF	142460.9302	8223
722285.697	4294393.257	6300	04-Nov-13	11042013-001.SSF	142461.9761	8224
722285.689	4294393.237	5944	04-Nov-13	11042013-001.SSF	142462.8628	8225
722285.637	4294393.226	5856	04-Nov-13	11042013-001.SSF	142463.9248	8226
722285.618	4294393.24	5964	04-Nov-13	11042013-001.SSF	142464.8281	8227
722285.649	4294393.257	5544	04-Nov-13	11042013-001.SSF	142465.9668	8228
722285.677	4294393.293	6404	04-Nov-13	11042013-001.SSF	142466.874	8229
722285.695	4294393.305	6752	04-Nov-13	11042013-001.SSF	142467.9321	8230
722285.706	4294393.322	6483	04-Nov-13	11042013-001.SSF	142468.8271	8231
722285.709	4294393.328	6211	04-Nov-13	11042013-001.SSF	142469.9922	8232
722285.722	4294393.328	6299	04-Nov-13	11042013-001.SSF	142470.7588	8233
722285.746	4294393.245	6535	04-Nov-13	11042013-001.SSF	142471.8452	8234
722285.678	4294393.216	6203	04-Nov-13	11042013-001.SSF	142472.7642	8235
722285.604	4294393.291	5927	04-Nov-13	11042013-001.SSF	142473.8101	8236
722285.545	4294393.296	6206	04-Nov-13	11042013-001.SSF	142474.6929	8237
722285.431	4294393.108	5838	04-Nov-13	11042013-001.SSF	142475.9619	8238
722285.478	4294393.032	6291	04-Nov-13	11042013-001.SSF	142476.8789	8239
722285.552	4294393.003	6164	04-Nov-13	11042013-001.SSF	142478.0068	8240
722285.589	4294393.041	6369	04-Nov-13	11042013-001.SSF	142478.9268	8241
722285.602	4294393.069	6013	04-Nov-13	11042013-001.SSF	142479.98	8242

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.587	4294393.087	6284	04-Nov-13	11042013-001.SSF	142480.811	8243
722285.565	4294393.086	5612	04-Nov-13	11042013-001.SSF	142481.9092	8244
722285.566	4294393.091	5759	04-Nov-13	11042013-001.SSF	142482.8198	8245
722285.582	4294393.089	6030	04-Nov-13	11042013-001.SSF	142483.8682	8246
722285.582	4294393.102	6024	04-Nov-13	11042013-001.SSF	142484.7729	8247
722285.58	4294393.116	6141	04-Nov-13	11042013-001.SSF	142485.937	8248
722285.598	4294393.147	6611	04-Nov-13	11042013-001.SSF	142486.8901	8249
722285.598	4294393.143	6359	04-Nov-13	11042013-001.SSF	142487.9512	8250
722285.591	4294393.136	6359	04-Nov-13	11042013-001.SSF	142488.9448	8251
722285.586	4294393.121	6217	04-Nov-13	11042013-001.SSF	142489.9448	8252
722285.585	4294393.132	5882	04-Nov-13	11042013-001.SSF	142490.813	8253
722285.577	4294393.132	5896	04-Nov-13	11042013-001.SSF	142491.9321	8254
722285.572	4294393.129	5851	04-Nov-13	11042013-001.SSF	142492.8799	8255
722285.565	4294393.118	5864	04-Nov-13	11042013-001.SSF	142493.938	8256
722285.564	4294393.093	5878	04-Nov-13	11042013-001.SSF	142494.855	8257
722285.587	4294393.092	6269	04-Nov-13	11042013-001.SSF	142495.9351	8258
722285.591	4294393.093	6173	04-Nov-13	11042013-001.SSF	142496.874	8259
722285.581	4294393.09	6142	04-Nov-13	11042013-001.SSF	142497.916	8260
722285.583	4294393.099	6470	04-Nov-13	11042013-001.SSF	142498.8711	8261
722285.545	4294393.118	6422	04-Nov-13	11042013-001.SSF	142499.9771	8262
722285.493	4294393.108	6365	04-Nov-13	11042013-001.SSF	142500.8628	8263
722285.488	4294393.13	5927	04-Nov-13	11042013-001.SSF	142501.9722	8264
722285.514	4294393.112	6034	04-Nov-13	11042013-001.SSF	142502.8208	8265
722285.54	4294393.106	5539	04-Nov-13	11042013-001.SSF	142503.9692	8266
722285.535	4294393.105	5778	04-Nov-13	11042013-001.SSF	142504.811	8267
722285.527	4294393.131	5718	04-Nov-13	11042013-001.SSF	142506.0078	8268
722285.534	4294393.118	5503	04-Nov-13	11042013-001.SSF	142506.8032	8269
722285.54	4294393.126	5436	04-Nov-13	11042013-001.SSF	142508.0068	8270
722285.527	4294393.127	5930	04-Nov-13	11042013-001.SSF	142508.8618	8271
722285.533	4294393.142	5765	04-Nov-13	11042013-001.SSF	142509.9072	8272
722285.543	4294393.135	5418	04-Nov-13	11042013-001.SSF	142510.7822	8273
722285.548	4294393.14	5845	04-Nov-13	11042013-001.SSF	142511.9341	8274
722285.549	4294393.142	5388	04-Nov-13	11042013-001.SSF	142512.8281	8275
722285.543	4294393.123	5783	04-Nov-13	11042013-001.SSF	142513.8872	8276
722285.542	4294393.126	6050	04-Nov-13	11042013-001.SSF	142514.7749	8277
722285.543	4294393.131	6253	04-Nov-13	11042013-001.SSF	142515.8872	8278
722285.548	4294393.127	6495	04-Nov-13	11042013-001.SSF	142516.8462	8279
722285.561	4294393.124	6571	04-Nov-13	11042013-001.SSF	142517.9639	8280
722285.565	4294393.118	6006	04-Nov-13	11042013-001.SSF	142518.8071	8281
722285.572	4294393.109	6401	04-Nov-13	11042013-001.SSF	142519.9619	8282
722285.569	4294393.098	5895	04-Nov-13	11042013-001.SSF	142520.811	8283
722285.564	4294393.109	6158	04-Nov-13	11042013-001.SSF	142521.8481	8284
722285.565	4294393.116	6224	04-Nov-13	11042013-001.SSF	142522.7661	8285
722285.566	4294393.114	6313	04-Nov-13	11042013-001.SSF	142523.8882	8286
722285.564	4294393.107	6213	04-Nov-13	11042013-001.SSF	142524.8521	8287
722285.567	4294393.1	6330	04-Nov-13	11042013-001.SSF	142525.8188	8288
722285.564	4294393.086	6013	04-Nov-13	11042013-001.SSF	142526.8018	8289

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.551	4294393.093	5985	04-Nov-13	11042013-001.SSF	142527.8589	8290
722285.548	4294393.103	5976	04-Nov-13	11042013-001.SSF	142528.7441	8291
722285.56	4294393.098	6571	04-Nov-13	11042013-001.SSF	142529.8589	8292
722285.557	4294393.09	6599	04-Nov-13	11042013-001.SSF	142530.8262	8293
722285.512	4294393.098	6847	04-Nov-13	11042013-001.SSF	142531.979	8294
722285.473	4294393.094	6873	04-Nov-13	11042013-001.SSF	142532.8188	8295
722285.467	4294393.091	7069	04-Nov-13	11042013-001.SSF	142533.9609	8296
722285.512	4294393.071	6653	04-Nov-13	11042013-001.SSF	142534.8398	8297
722285.535	4294393.069	6892	04-Nov-13	11042013-001.SSF	142535.9229	8298
722285.521	4294393.121	6412	04-Nov-13	11042013-001.SSF	142536.8271	8299
722285.586	4294393.242	6314	04-Nov-13	11042013-001.SSF	142537.9321	8300
722285.629	4294393.207	6281	04-Nov-13	11042013-001.SSF	142538.8789	8301
722285.642	4294393.172	6128	04-Nov-13	11042013-001.SSF	142539.936	8302
722285.644	4294393.187	6312	04-Nov-13	11042013-001.SSF	142540.877	8303
722285.648	4294393.209	6025	04-Nov-13	11042013-001.SSF	142541.9219	8304
722285.657	4294393.199	5932	04-Nov-13	11042013-001.SSF	142542.7949	8305
722285.667	4294393.189	5849	04-Nov-13	11042013-001.SSF	142543.9268	8306
722285.671	4294393.176	6710	04-Nov-13	11042013-001.SSF	142544.792	8307
722285.668	4294393.167	6497	04-Nov-13	11042013-001.SSF	142545.9502	8308
722285.66	4294393.174	6294	04-Nov-13	11042013-001.SSF	142546.8232	8309
722285.653	4294393.156	6450	04-Nov-13	11042013-001.SSF	142547.9292	8310
722285.621	4294393.117	5931	04-Nov-13	11042013-001.SSF	142548.8472	8311
722285.604	4294393.126	6006	04-Nov-13	11042013-001.SSF	142549.9282	8312
722285.625	4294393.132	5531	04-Nov-13	11042013-001.SSF	142550.7769	8313
722285.634	4294393.139	5788	04-Nov-13	11042013-001.SSF	142552.0029	8314
722285.638	4294393.18	6196	04-Nov-13	11042013-001.SSF	142552.8389	8315
722285.644	4294393.213	5960	04-Nov-13	11042013-001.SSF	142553.875	8316
722285.58	4294393.192	6030	04-Nov-13	11042013-001.SSF	142554.8042	8317
722285.534	4294393.152	5874	04-Nov-13	11042013-001.SSF	142555.9009	8318
722285.566	4294393.168	6004	04-Nov-13	11042013-001.SSF	142556.7739	8319
722285.584	4294393.167	6100	04-Nov-13	11042013-001.SSF	142557.8071	8320
722285.622	4294393.169	6363	04-Nov-13	11042013-001.SSF	142558.772	8321
722285.664	4294393.18	6099	04-Nov-13	11042013-001.SSF	142559.853	8322
722285.677	4294393.171	6393	04-Nov-13	11042013-001.SSF	142560.7759	8323
722285.666	4294393.163	6281	04-Nov-13	11042013-001.SSF	142561.8472	8324
722285.611	4294393.166	6368	04-Nov-13	11042013-001.SSF	142562.729	8325
722285.567	4294393.174	6034	04-Nov-13	11042013-001.SSF	142563.8838	8326
722285.576	4294393.183	5997	04-Nov-13	11042013-001.SSF	142564.7168	8327
722285.62	4294393.167	5458	04-Nov-13	11042013-001.SSF	142565.9702	8328
722285.651	4294393.147	5770	04-Nov-13	11042013-001.SSF	142566.8389	8329
722285.65	4294393.148	6305	04-Nov-13	11042013-001.SSF	142567.9609	8330
722285.641	4294393.16	6284	04-Nov-13	11042013-001.SSF	142568.8218	8331
722285.621	4294393.166	5995	04-Nov-13	11042013-001.SSF	142569.9409	8332
722285.594	4294393.135	6072	04-Nov-13	11042013-001.SSF	142570.8521	8333
722285.629	4294393.144	6573	04-Nov-13	11042013-001.SSF	142571.8579	8334
722285.691	4294393.168	6802	04-Nov-13	11042013-001.SSF	142572.812	8335
722285.69	4294393.174	6773	04-Nov-13	11042013-001.SSF	142573.916	8336

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722285.667	4294393.179	6472	04-Nov-13	11042013-001.SSF	142574.8672	8337
722285.664	4294393.188	6183	04-Nov-13	11042013-001.SSF	142575.877	8338
722285.664	4294393.184	6380	04-Nov-13	11042013-001.SSF	142576.7769	8339
722285.651	4294393.174	6019	04-Nov-13	11042013-001.SSF	142577.9009	8340
722285.649	4294393.173	6130	04-Nov-13	11042013-001.SSF	142578.729	8341
722285.656	4294393.165	5736	04-Nov-13	11042013-001.SSF	142579.8359	8342
722285.657	4294393.156	6024	04-Nov-13	11042013-001.SSF	142580.7388	8343
722285.633	4294393.142	5863	04-Nov-13	11042013-001.SSF	142581.9111	8344
722285.613	4294393.125	6133	04-Nov-13	11042013-001.SSF	142582.7349	8345
722285.622	4294393.112	6097	04-Nov-13	11042013-001.SSF	142583.9141	8346
722285.631	4294393.114	5784	04-Nov-13	11042013-001.SSF	142584.7271	8347
722285.634	4294393.102	5901	04-Nov-13	11042013-001.SSF	142585.8032	8348
722285.635	4294393.101	6214	04-Nov-13	11042013-001.SSF	142586.7251	8349
722285.639	4294393.085	6113	04-Nov-13	11042013-001.SSF	142587.873	8350
722285.637	4294393.092	6498	04-Nov-13	11042013-001.SSF	142588.792	8351
722285.626	4294393.103	6355	04-Nov-13	11042013-001.SSF	142589.8052	8352
722285.625	4294393.121	5990	04-Nov-13	11042013-001.SSF	142590.7422	8353
722285.62	4294393.119	6459	04-Nov-13	11042013-001.SSF	142591.8252	8354
722285.616	4294393.127	6228	04-Nov-13	11042013-001.SSF	142592.8271	8355
722285.615	4294393.111	5881	04-Nov-13	11042013-001.SSF	142593.8188	8356
722285.602	4294393.109	5513	04-Nov-13	11042013-001.SSF	142594.813	8357
722285.6	4294393.107	5673	04-Nov-13	11042013-001.SSF	142595.8398	8358
722285.599	4294393.116	5568	04-Nov-13	11042013-001.SSF	142596.8379	8359
722285.588	4294393.127	5645	04-Nov-13	11042013-001.SSF	142597.854	8360
722285.569	4294393.128	5590	04-Nov-13	11042013-001.SSF	142598.7808	8361
722285.544	4294393.112	5559	04-Nov-13	11042013-001.SSF	142599.855	8362
722285.538	4294393.094	6067	04-Nov-13	11042013-001.SSF	142600.7588	8363
722285.533	4294393.09	5902	04-Nov-13	11042013-001.SSF	142601.8369	8364
722285.523	4294393.087	6035	04-Nov-13	11042013-001.SSF	142602.7651	8365
722285.507	4294393.073	6432	04-Nov-13	11042013-001.SSF	142603.8818	8366
722285.494	4294393.061	6055	04-Nov-13	11042013-001.SSF	142604.7642	8367
722285.476	4294393.034	6301	04-Nov-13	11042013-001.SSF	142605.9468	8368
722285.462	4294393.022	6237	04-Nov-13	11042013-001.SSF	142606.8232	8369
722285.445	4294393.013	6568	04-Nov-13	11042013-001.SSF	142607.939	8370
722285.424	4294393.018	6439	04-Nov-13	11042013-001.SSF	142608.8291	8371
722285.378	4294392.99	6397	04-Nov-13	11042013-001.SSF	142609.9321	8372
722285.365	4294392.995	6493	04-Nov-13	11042013-001.SSF	142610.8608	8373
722285.383	4294393.019	5947	04-Nov-13	11042013-001.SSF	142611.856	8374
722285.405	4294393.034	5318	04-Nov-13	11042013-001.SSF	142612.8579	8375
722285.405	4294393.027	5646	04-Nov-13	11042013-001.SSF	142613.8848	8376
722285.455	4294393.044	5613	04-Nov-13	11042013-001.SSF	142614.8628	8377
722285.563	4294393.098	5610	04-Nov-13	11042013-001.SSF	142615.854	8378
722285.648	4294393.104	5705	04-Nov-13	11042013-001.SSF	142616.7651	8379
722285.674	4294393.05	5759	04-Nov-13	11042013-001.SSF	142617.894	8380
722285.662	4294393.063	6269	04-Nov-13	11042013-001.SSF	142618.7661	8381
722285.654	4294393.12	6309	04-Nov-13	11042013-001.SSF	142619.8901	8382
722285.644	4294393.133	6218	04-Nov-13	11042013-001.SSF	142620.8042	8383

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722285.628	4294393.108	5943	04-Nov-13	11042013-001.SSF	142621.937	8384
722285.616	4294393.126	5960	04-Nov-13	11042013-001.SSF	142622.8232	8385
722285.578	4294393.14	6382	04-Nov-13	11042013-001.SSF	142623.9438	8386
722285.561	4294393.149	6057	04-Nov-13	11042013-001.SSF	142624.7832	8387
722285.55	4294393.121	6415	04-Nov-13	11042013-001.SSF	142625.8491	8388
722285.558	4294393.13	6421	04-Nov-13	11042013-001.SSF	142626.7559	8389
722285.546	4294393.1	6259	04-Nov-13	11042013-001.SSF	142627.8828	8390
722285.547	4294393.102	6266	04-Nov-13	11042013-001.SSF	142628.7671	8391
722285.553	4294393.086	6517	04-Nov-13	11042013-001.SSF	142629.8892	8392
722285.543	4294393.092	6373	04-Nov-13	11042013-001.SSF	142630.8169	8393
722285.562	4294393.104	6195	04-Nov-13	11042013-001.SSF	142631.918	8394
722285.604	4294393.111	6597	04-Nov-13	11042013-001.SSF	142632.751	8395
722285.662	4294393.156	6283	04-Nov-13	11042013-001.SSF	142633.958	8396
722285.7	4294393.189	5829	04-Nov-13	11042013-001.SSF	142634.7529	8397
722285.729	4294393.239	5911	04-Nov-13	11042013-001.SSF	142635.854	8398
722285.694	4294393.237	6287	04-Nov-13	11042013-001.SSF	142636.7842	8399
722285.694	4294393.227	5966	04-Nov-13	11042013-001.SSF	142637.9048	8400
722285.714	4294393.211	5628	04-Nov-13	11042013-001.SSF	142638.7222	8401
722285.69	4294393.204	5701	04-Nov-13	11042013-001.SSF	142639.8472	8402
722285.663	4294393.208	5307	04-Nov-13	11042013-001.SSF	142640.7559	8403
722285.66	4294393.217	5257	04-Nov-13	11042013-001.SSF	142641.8032	8404
722285.643	4294393.219	5860	04-Nov-13	11042013-001.SSF	142642.731	8405
722285.647	4294393.214	5876	04-Nov-13	11042013-001.SSF	142643.876	8406
722285.674	4294393.25	5773	04-Nov-13	11042013-001.SSF	142644.7559	8407
722285.659	4294393.231	6022	04-Nov-13	11042013-001.SSF	142645.8589	8408
722285.705	4294393.244	5982	04-Nov-13	11042013-001.SSF	142646.7842	8409
722285.75	4294393.27	5802	04-Nov-13	11042013-001.SSF	142647.9209	8410
722285.631	4294393.139	5604	04-Nov-13	11042013-001.SSF	142648.7798	8411
722285.504	4294392.98	5987	04-Nov-13	11042013-001.SSF	142649.9189	8412
722285.571	4294393.002	6217	04-Nov-13	11042013-001.SSF	142650.8218	8413
722285.559	4294393.002	5972	04-Nov-13	11042013-001.SSF	142651.8389	8414
722285.492	4294393.009	5879	04-Nov-13	11042013-001.SSF	142652.7549	8415
722285.479	4294393.041	6645	04-Nov-13	11042013-001.SSF	142653.8682	8416
722285.488	4294393.045	6925	04-Nov-13	11042013-001.SSF	142654.7842	8417
722285.507	4294393.044	6513	04-Nov-13	11042013-001.SSF	142655.8589	8418
722285.535	4294393.071	6701	04-Nov-13	11042013-001.SSF	142656.813	8419
722285.541	4294393.063	6424	04-Nov-13	11042013-001.SSF	142657.8472	8420
722285.556	4294393.07	6726	04-Nov-13	11042013-001.SSF	142658.7832	8421
722285.544	4294393.086	5913	04-Nov-13	11042013-001.SSF	142659.832	8422
722285.513	4294393.084	6153	04-Nov-13	11042013-001.SSF	142660.7759	8423
722285.518	4294393.067	6026	04-Nov-13	11042013-001.SSF	142661.9541	8424
722285.525	4294393.065	6412	04-Nov-13	11042013-001.SSF	142662.8052	8425
722285.528	4294393.041	5992	04-Nov-13	11042013-001.SSF	142663.8389	8426
722285.54	4294393.017	6070	04-Nov-13	11042013-001.SSF	142664.8062	8427
722285.515	4294393.011	6279	04-Nov-13	11042013-001.SSF	142665.8662	8428
722285.491	4294393.022	5670	04-Nov-13	11042013-001.SSF	142666.814	8429
722285.511	4294393.031	6076	04-Nov-13	11042013-001.SSF	142667.9302	8430

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722285.559	4294393.044	6003	04-Nov-13	11042013-001.SSF	142669.9922	8432
722285.561	4294393.04	6234	04-Nov-13	11042013-001.SSF	142670.8032	8433
722285.577	4294393.044	6559	04-Nov-13	11042013-001.SSF	142671.874	8434
722285.574	4294393.056	5872	04-Nov-13	11042013-001.SSF	142672.8062	8435
722285.565	4294393.048	6010	04-Nov-13	11042013-001.SSF	142673.8262	8436
722285.536	4294393.042	6276	04-Nov-13	11042013-001.SSF	142674.8301	8437
722285.514	4294393.055	6087	04-Nov-13	11042013-001.SSF	142675.8789	8438
722285.51	4294393.033	5809	04-Nov-13	11042013-001.SSF	142676.7739	8439
722285.518	4294393.029	6110	04-Nov-13	11042013-001.SSF	142677.8198	8440
722285.505	4294393.101	6452	04-Nov-13	11042013-001.SSF	142678.752	8441
722285.539	4294393.27	6644	04-Nov-13	11042013-001.SSF	142679.8809	8442
722285.611	4294393.356	6512	04-Nov-13	11042013-001.SSF	142680.708	8443
722285.664	4294393.321	6378	04-Nov-13	11042013-001.SSF	142681.833	8444
722285.67	4294393.29	6325	04-Nov-13	11042013-001.SSF	142682.7549	8445
722285.606	4294393.294	6333	04-Nov-13	11042013-001.SSF	142683.9282	8446
722285.521	4294393.261	6262	04-Nov-13	11042013-001.SSF	142684.7529	8447
722285.51	4294393.272	5630	04-Nov-13	11042013-001.SSF	142685.8779	8448
722285.586	4294393.29	5881	04-Nov-13	11042013-001.SSF	142686.8232	8449
722285.607	4294393.282	6143	04-Nov-13	11042013-001.SSF	142687.8979	8450
722285.547	4294393.253	6080	04-Nov-13	11042013-001.SSF	142688.7759	8451
722285.475	4294393.194	6090	04-Nov-13	11042013-001.SSF	142689.8809	8452
722285.479	4294393.17	6410	04-Nov-13	11042013-001.SSF	142690.7622	8453
722285.496	4294393.157	5976	04-Nov-13	11042013-001.SSF	142691.814	8454
722285.512	4294393.145	6106	04-Nov-13	11042013-001.SSF	142692.7612	8455
722285.538	4294393.13	6202	04-Nov-13	11042013-001.SSF	142693.8828	8456
722285.555	4294393.142	6023	04-Nov-13	11042013-001.SSF	142694.7632	8457
722285.568	4294393.109	6238	04-Nov-13	11042013-001.SSF	142695.8408	8458
722285.571	4294393.085	5961	04-Nov-13	11042013-001.SSF	142696.8169	8459
722285.507	4294393.011	6240	04-Nov-13	11042013-001.SSF	142697.8281	8460
722285.458	4294392.954	6525	04-Nov-13	11042013-001.SSF	142698.8232	8461
722285.465	4294392.976	6490	04-Nov-13	11042013-001.SSF	142699.855	8462
722285.491	4294392.996	6763	04-Nov-13	11042013-001.SSF	142700.7241	8463
722285.525	4294393.017	6407	04-Nov-13	11042013-001.SSF	142701.8389	8464
722285.528	4294393.029	5913	04-Nov-13	11042013-001.SSF	142702.7959	8465
722285.53	4294393.025	5674	04-Nov-13	11042013-001.SSF	142703.834	8466
722285.575	4294393.027	5734	04-Nov-13	11042013-001.SSF	142704.7998	8467
722285.623	4294393.026	5400	04-Nov-13	11042013-001.SSF	142705.8472	8468
722285.597	4294393.034	5790	04-Nov-13	11042013-001.SSF	142706.7529	8469
722285.542	4294393.068	5679	04-Nov-13	11042013-001.SSF	142707.8682	8470
722285.55	4294393.084	5587	04-Nov-13	11042013-001.SSF	142708.8252	8471
722285.568	4294393.076	5617	04-Nov-13	11042013-001.SSF	142709.8569	8472
722285.573	4294393.082	5897	04-Nov-13	11042013-001.SSF	142710.75	8473
722285.508	4294393.13	5867	04-Nov-13	11042013-001.SSF	142711.8989	8474
722285.448	4294393.14	6007	04-Nov-13	11042013-001.SSF	142712.75	8475
722285.491	4294393.071	6184	04-Nov-13	11042013-001.SSF	142713.897	8476
722285.522	4294393.025	6126	04-Nov-13	11042013-001.SSF	142714.7632	8477

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722285.531	4294393.009	5951	04-Nov-13	11042013-001.SSF	142715.7598	8478
722285.536	4294393.018	5830	04-Nov-13	11042013-001.SSF	142716.7222	8479
722285.54	4294393.026	6129	04-Nov-13	11042013-001.SSF	142717.8491	8480
722285.539	4294393.043	6125	04-Nov-13	11042013-001.SSF	142718.7388	8481
722285.534	4294393.055	6295	04-Nov-13	11042013-001.SSF	142719.771	8482
722285.538	4294393.063	6128	04-Nov-13	11042013-001.SSF	142720.7578	8483
722285.547	4294393.064	6244	04-Nov-13	11042013-001.SSF	142721.8252	8484
722285.548	4294393.066	6257	04-Nov-13	11042013-001.SSF	142722.7319	8485
722285.531	4294393.031	6130	04-Nov-13	11042013-001.SSF	142723.8501	8486
722285.534	4294392.983	6373	04-Nov-13	11042013-001.SSF	142724.7568	8487
722285.555	4294392.955	5985	04-Nov-13	11042013-001.SSF	142725.8418	8488
722285.562	4294392.947	6066	04-Nov-13	11042013-001.SSF	142726.752	8489
722285.56	4294392.988	6277	04-Nov-13	11042013-001.SSF	142727.8931	8490
722285.525	4294393.017	6021	04-Nov-13	11042013-001.SSF	142728.8008	8491
722285.526	4294392.975	5914	04-Nov-13	11042013-001.SSF	142729.8931	8492
722285.536	4294392.961	6604	04-Nov-13	11042013-001.SSF	142730.7329	8493
722285.499	4294392.982	7112	04-Nov-13	11042013-001.SSF	142731.8252	8494
722285.491	4294392.974	6198	04-Nov-13	11042013-001.SSF	142732.8242	8495
722285.494	4294392.959	5751	04-Nov-13	11042013-001.SSF	142733.8428	8496
722285.498	4294392.951	5807	04-Nov-13	11042013-001.SSF	142734.752	8497
722285.511	4294392.95	5704	04-Nov-13	11042013-001.SSF	142735.8462	8498
722285.527	4294392.954	6096	04-Nov-13	11042013-001.SSF	142736.7471	8499
722285.536	4294392.939	6346	04-Nov-13	11042013-001.SSF	142737.855	8500
722285.538	4294392.954	6367	04-Nov-13	11042013-001.SSF	142738.7822	8501
722285.542	4294392.933	6131	04-Nov-13	11042013-001.SSF	142739.7949	8502
722285.543	4294392.909	5526	04-Nov-13	11042013-001.SSF	142740.751	8503
722285.558	4294392.909	6026	04-Nov-13	11042013-001.SSF	142741.8799	8504
722285.578	4294393.003	5684	04-Nov-13	11042013-001.SSF	142742.7168	8505
722285.579	4294393.021	5687	04-Nov-13	11042013-001.SSF	142743.8232	8506
722285.569	4294392.99	5779	04-Nov-13	11042013-001.SSF	142744.7739	8507
722285.551	4294392.96	5478	04-Nov-13	11042013-001.SSF	142745.8262	8508
722285.549	4294392.955	5676	04-Nov-13	11042013-001.SSF	142746.687	8509
722285.555	4294392.95	5773	04-Nov-13	11042013-001.SSF	142747.8091	8510
722285.541	4294392.94	5595	04-Nov-13	11042013-001.SSF	142748.709	8511
722285.521	4294392.956	5569	04-Nov-13	11042013-001.SSF	142749.835	8512
722285.517	4294392.97	5570	04-Nov-13	11042013-001.SSF	142750.749	8513
722285.518	4294392.98	5645	04-Nov-13	11042013-001.SSF	142751.7798	8514
722285.535	4294392.99	6063	04-Nov-13	11042013-001.SSF	142752.7061	8515
722285.559	4294393.014	6283	04-Nov-13	11042013-001.SSF	142753.7378	8516
722285.571	4294393.035	6181	04-Nov-13	11042013-001.SSF	142754.6768	8517
722285.575	4294393.048	6252	04-Nov-13	11042013-001.SSF	142755.8511	8518
722285.564	4294393.041	5752	04-Nov-13	11042013-001.SSF	142756.708	8519
722285.549	4294393.059	6130	04-Nov-13	11042013-001.SSF	142757.833	8520
722285.54	4294393.067	6275	04-Nov-13	11042013-001.SSF	142758.7559	8521
722285.539	4294393.042	6155	04-Nov-13	11042013-001.SSF	142759.8501	8522
722285.547	4294393.01	6657	04-Nov-13	11042013-001.SSF	142760.7051	8523
722285.566	4294392.987	6384	04-Nov-13	11042013-001.SSF	142761.8159	8524

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722285.574	4294392.995	6501	04-Nov-13	11042013-001.SSF	142762.7241	8525
722285.571	4294393.001	6634	04-Nov-13	11042013-001.SSF	142763.8628	8526
722285.571	4294392.999	6499	04-Nov-13	11042013-001.SSF	142764.7749	8527
722285.562	4294393.002	6558	04-Nov-13	11042013-001.SSF	142765.7549	8528
722285.541	4294392.977	6201	04-Nov-13	11042013-001.SSF	142766.7021	8529
722285.521	4294392.941	5753	04-Nov-13	11042013-001.SSF	142767.7402	8530
722285.52	4294392.916	6326	04-Nov-13	11042013-001.SSF	142768.687	8531
722285.519	4294392.889	6326	04-Nov-13	11042013-001.SSF	142769.7168	8532
722285.52	4294392.899	6708	04-Nov-13	11042013-001.SSF	142770.7642	8533
722285.519	4294392.894	6458	04-Nov-13	11042013-001.SSF	142771.7822	8534
722285.515	4294392.897	6700	04-Nov-13	11042013-001.SSF	142772.6851	8535
722285.526	4294392.907	6768	04-Nov-13	11042013-001.SSF	142773.7729	8536
722285.547	4294392.928	6800	04-Nov-13	11042013-001.SSF	142774.7769	8537
722285.599	4294393.036	6945	04-Nov-13	11042013-001.SSF	142775.7969	8538
722285.658	4294393.076	6599	04-Nov-13	11042013-001.SSF	142776.7891	8539
722285.662	4294393.039	6412	04-Nov-13	11042013-001.SSF	142777.8921	8540
722285.672	4294393.054	6179	04-Nov-13	11042013-001.SSF	142778.7461	8541
722285.676	4294393.083	5913	04-Nov-13	11042013-001.SSF	142779.8462	8542
722285.648	4294393.054	5958	04-Nov-13	11042013-001.SSF	142780.75	8543
722285.619	4294393.055	5714	04-Nov-13	11042013-001.SSF	142781.7871	8544
722285.588	4294393.05	6304	04-Nov-13	11042013-001.SSF	142782.6758	8545
722285.545	4294393.011	5623	04-Nov-13	11042013-001.SSF	142783.7378	8546
722285.536	4294392.981	5930	04-Nov-13	11042013-001.SSF	142784.6929	8547
722285.542	4294392.973	5976	04-Nov-13	11042013-001.SSF	142785.835	8548
722285.567	4294393.026	6174	04-Nov-13	11042013-001.SSF	142786.7388	8549
722285.576	4294393.075	6217	04-Nov-13	11042013-001.SSF	142787.856	8550
722285.552	4294393.058	6370	04-Nov-13	11042013-001.SSF	142788.7559	8551
722285.556	4294393.05	5765	04-Nov-13	11042013-001.SSF	142789.8398	8552
722285.577	4294393.053	6250	04-Nov-13	11042013-001.SSF	142790.6851	8553
722285.589	4294393.053	5856	04-Nov-13	11042013-001.SSF	142791.874	8554
722285.578	4294393.041	6174	04-Nov-13	11042013-001.SSF	142792.6899	8555
722285.572	4294393.031	6360	04-Nov-13	11042013-001.SSF	142793.8389	8556
722285.572	4294393.001	6120	04-Nov-13	11042013-001.SSF	142794.7798	8557
722285.563	4294392.975	5775	04-Nov-13	11042013-001.SSF	142795.7622	8558
722285.554	4294392.961	6098	04-Nov-13	11042013-001.SSF	142796.6812	8559
722285.549	4294392.952	5613	04-Nov-13	11042013-001.SSF	142797.7319	8560
722285.542	4294392.957	5790	04-Nov-13	11042013-001.SSF	142798.7119	8561
722285.531	4294392.959	5979	04-Nov-13	11042013-001.SSF	142799.7432	8562
722285.525	4294392.947	5905	04-Nov-13	11042013-001.SSF	142800.752	8563
722285.531	4294392.965	5924	04-Nov-13	11042013-001.SSF	142801.9072	8564
722285.691	4294393.066	6017	04-Nov-13	11042013-001.SSF	142802.731	8565
722285.883	4294393.131	5717	04-Nov-13	11042013-001.SSF	142803.8198	8566
722285.879	4294393.078	5406	04-Nov-13	11042013-001.SSF	142804.709	8567
722285.857	4294393.049	5403	04-Nov-13	11042013-001.SSF	142805.791	8568
722285.871	4294393.072	5604	04-Nov-13	11042013-001.SSF	142806.6929	8569
722285.904	4294393.094	5680	04-Nov-13	11042013-001.SSF	142807.8018	8570
722285.861	4294393.066	5797	04-Nov-13	11042013-001.SSF	142808.7681	8571

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722285.803	4294393.046	5841	04-Nov-13	11042013-001.SSF	142809.8379	8572
722285.794	4294392.998	6278	04-Nov-13	11042013-001.SSF	142810.7339	8573
722285.772	4294392.933	5864	04-Nov-13	11042013-001.SSF	142811.8281	8574
722285.737	4294392.92	5368	04-Nov-13	11042013-001.SSF	142812.749	8575
722285.729	4294392.939	6409	04-Nov-13	11042013-001.SSF	142813.7842	8576
722285.711	4294393.001	6193	04-Nov-13	11042013-001.SSF	142814.7368	8577
722285.653	4294393.031	5868	04-Nov-13	11042013-001.SSF	142815.7988	8578
722285.625	4294393.006	6203	04-Nov-13	11042013-001.SSF	142816.7349	8579
722285.608	4294392.985	6392	04-Nov-13	11042013-001.SSF	142817.7881	8580
722285.598	4294392.98	6543	04-Nov-13	11042013-001.SSF	142818.7349	8581
722285.591	4294392.98	6493	04-Nov-13	11042013-001.SSF	142819.7671	8582
722285.595	4294392.974	6554	04-Nov-13	11042013-001.SSF	142820.7578	8583
722285.601	4294392.976	6229	04-Nov-13	11042013-001.SSF	142821.7832	8584
722285.602	4294392.986	5589	04-Nov-13	11042013-001.SSF	142822.707	8585
722285.613	4294392.984	5386	04-Nov-13	11042013-001.SSF	142823.8809	8586
722285.649	4294393.009	5659	04-Nov-13	11042013-001.SSF	142824.7192	8587
722285.673	4294393.03	5755	04-Nov-13	11042013-001.SSF	142825.8218	8588
722285.634	4294393.001	6462	04-Nov-13	11042013-001.SSF	142826.7729	8589
722285.616	4294392.974	6005	04-Nov-13	11042013-001.SSF	142827.7969	8590
722285.632	4294393.026	5860	04-Nov-13	11042013-001.SSF	142828.7349	8591
722285.632	4294393.046	5853	04-Nov-13	11042013-001.SSF	142829.8638	8592
722285.59	4294393.006	5677	04-Nov-13	11042013-001.SSF	142830.7339	8593
722285.549	4294392.955	5931	04-Nov-13	11042013-001.SSF	142831.7808	8594
722285.546	4294392.949	6021	04-Nov-13	11042013-001.SSF	142832.6821	8595
722285.536	4294392.964	5854	04-Nov-13	11042013-001.SSF	142833.8188	8596
722285.534	4294392.993	5843	04-Nov-13	11042013-001.SSF	142834.7549	8597
722285.562	4294393.026	6159	04-Nov-13	11042013-001.SSF	142835.7808	8598
722285.615	4294393.021	6142	04-Nov-13	11042013-001.SSF	142836.71	8599
722285.662	4294393.025	6267	04-Nov-13	11042013-001.SSF	142837.791	8600
722285.652	4294393.009	6217	04-Nov-13	11042013-001.SSF	142838.6362	8601
722285.631	4294392.974	6625	04-Nov-13	11042013-001.SSF	142839.7559	8602
722285.62	4294392.938	6389	04-Nov-13	11042013-001.SSF	142840.7168	8603
722285.604	4294392.913	6383	04-Nov-13	11042013-001.SSF	142841.7622	8604
722285.596	4294392.903	6141	04-Nov-13	11042013-001.SSF	142842.7739	8605
722285.587	4294392.891	6446	04-Nov-13	11042013-001.SSF	142843.7651	8606
722285.573	4294392.891	6963	04-Nov-13	11042013-001.SSF	142844.6851	8607
722285.563	4294392.884	6302	04-Nov-13	11042013-001.SSF	142845.7168	8608
722285.563	4294392.883	6665	04-Nov-13	11042013-001.SSF	142846.6821	8609
722285.562	4294392.877	6516	04-Nov-13	11042013-001.SSF	142847.7349	8610
722285.568	4294392.869	6298	04-Nov-13	11042013-001.SSF	142848.728	8611
722285.617	4294392.748	6235	04-Nov-13	11042013-001.SSF	142849.7891	8612
722285.74	4294392.821	6184	04-Nov-13	11042013-001.SSF	142850.7769	8613
722285.855	4294392.912	6096	04-Nov-13	11042013-001.SSF	142851.7778	8614
722285.85	4294392.847	6174	04-Nov-13	11042013-001.SSF	142852.7891	8615
722285.821	4294392.869	5767	04-Nov-13	11042013-001.SSF	142853.7798	8616
722285.783	4294392.894	6064	04-Nov-13	11042013-001.SSF	142854.7422	8617
722285.735	4294392.872	6238	04-Nov-13	11042013-001.SSF	142855.814	8618

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.705	4294392.879	6029	04-Nov-13	11042013-001.SSF	142856.6802	8619
722285.658	4294392.895	6301	04-Nov-13	11042013-001.SSF	142857.8188	8620
722285.635	4294392.919	6147	04-Nov-13	11042013-001.SSF	142858.6782	8621
722285.656	4294392.968	6285	04-Nov-13	11042013-001.SSF	142859.7559	8622
722285.597	4294392.981	6400	04-Nov-13	11042013-001.SSF	142860.7168	8623
722285.481	4294392.946	6270	04-Nov-13	11042013-001.SSF	142861.728	8624
722285.479	4294392.947	5904	04-Nov-13	11042013-001.SSF	142862.7251	8625
722285.447	4294392.93	6389	04-Nov-13	11042013-001.SSF	142863.7979	8626
722285.413	4294392.905	6998	04-Nov-13	11042013-001.SSF	142864.7329	8627
722285.428	4294392.897	6606	04-Nov-13	11042013-001.SSF	142865.7739	8628
722285.42	4294392.883	6153	04-Nov-13	11042013-001.SSF	142866.7271	8629
722285.409	4294392.887	6274	04-Nov-13	11042013-001.SSF	142867.7788	8630
722285.418	4294392.893	6176	04-Nov-13	11042013-001.SSF	142868.7002	8631
722285.435	4294392.9	5941	04-Nov-13	11042013-001.SSF	142869.7539	8632
722285.455	4294392.897	5907	04-Nov-13	11042013-001.SSF	142870.6611	8633
722285.484	4294392.899	6517	04-Nov-13	11042013-001.SSF	142871.6929	8634
722285.502	4294392.899	7071	04-Nov-13	11042013-001.SSF	142872.627	8635
722285.499	4294392.889	6745	04-Nov-13	11042013-001.SSF	142873.7749	8636
722285.481	4294392.883	6674	04-Nov-13	11042013-001.SSF	142874.6748	8637
722285.472	4294392.868	6491	04-Nov-13	11042013-001.SSF	142875.8159	8638
722285.474	4294392.866	5954	04-Nov-13	11042013-001.SSF	142876.7441	8639
722285.467	4294392.867	5711	04-Nov-13	11042013-001.SSF	142877.7778	8640
722285.465	4294392.872	5867	04-Nov-13	11042013-001.SSF	142878.7759	8641
722285.481	4294392.871	6165	04-Nov-13	11042013-001.SSF	142879.8101	8642
722285.498	4294392.864	6400	04-Nov-13	11042013-001.SSF	142880.6699	8643
722285.512	4294392.862	6187	04-Nov-13	11042013-001.SSF	142881.8232	8644
722285.52	4294392.852	6053	04-Nov-13	11042013-001.SSF	142882.7231	8645
722285.52	4294392.846	6292	04-Nov-13	11042013-001.SSF	142883.751	8646
722285.517	4294392.846	5932	04-Nov-13	11042013-001.SSF	142884.6689	8647
722285.513	4294392.847	5736	04-Nov-13	11042013-001.SSF	142885.75	8648
722285.513	4294392.847	5469	04-Nov-13	11042013-001.SSF	142886.6128	8649
722285.512	4294392.849	5934	04-Nov-13	11042013-001.SSF	142887.7041	8650
722285.492	4294392.848	6097	04-Nov-13	11042013-001.SSF	142888.6191	8651
722285.462	4294392.881	5957	04-Nov-13	11042013-001.SSF	142889.7979	8652
722285.49	4294393.011	6501	04-Nov-13	11042013-001.SSF	142890.7358	8653
722285.534	4294392.959	6559	04-Nov-13	11042013-001.SSF	142891.8301	8654
722285.564	4294392.778	6209	04-Nov-13	11042013-001.SSF	142892.6479	8655
722285.596	4294392.658	6673	04-Nov-13	11042013-001.SSF	142893.7598	8656
722285.601	4294392.671	6686	04-Nov-13	11042013-001.SSF	142894.6621	8657
722285.599	4294392.698	6618	04-Nov-13	11042013-001.SSF	142895.79	8658
722285.594	4294392.734	6400	04-Nov-13	11042013-001.SSF	142896.6309	8659
722285.585	4294392.78	6105	04-Nov-13	11042013-001.SSF	142897.7319	8660
722285.58	4294392.792	6351	04-Nov-13	11042013-001.SSF	142898.6509	8661
722285.583	4294392.799	6498	04-Nov-13	11042013-001.SSF	142899.7368	8662
722285.592	4294392.811	6077	04-Nov-13	11042013-001.SSF	142900.6108	8663
722285.597	4294392.803	6043	04-Nov-13	11042013-001.SSF	142901.728	8664
722285.594	4294392.783	6332	04-Nov-13	11042013-001.SSF	142902.7139	8665

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722285.593	4294392.787	6164	04-Nov-13	11042013-001.SSF	142903.7749	8666
722285.594	4294392.795	6422	04-Nov-13	11042013-001.SSF	142904.6201	8667
722285.594	4294392.787	5802	04-Nov-13	11042013-001.SSF	142905.7778	8668
722285.552	4294392.889	5986	04-Nov-13	11042013-001.SSF	142906.626	8669
722285.454	4294393.044	6135	04-Nov-13	11042013-001.SSF	142907.772	8670
722285.441	4294393.061	5843	04-Nov-13	11042013-001.SSF	142908.6841	8671
722285.516	4294393.089	5604	04-Nov-13	11042013-001.SSF	142909.7578	8672
722285.581	4294393.113	6175	04-Nov-13	11042013-001.SSF	142910.73	8673
722285.539	4294393.07	7021	04-Nov-13	11042013-001.SSF	142911.8169	8674
722285.472	4294393.026	6784	04-Nov-13	11042013-001.SSF	142912.7539	8675
722285.459	4294393.019	5721	04-Nov-13	11042013-001.SSF	142913.7549	8676
722285.453	4294393.009	6240	04-Nov-13	11042013-001.SSF	142914.7549	8677
722285.426	4294393.028	6480	04-Nov-13	11042013-001.SSF	142915.7202	8678
722285.442	4294393.059	5872	04-Nov-13	11042013-001.SSF	142916.6548	8679
722285.484	4294393.034	5666	04-Nov-13	11042013-001.SSF	142917.7842	8680
722285.534	4294393.044	6007	04-Nov-13	11042013-001.SSF	142918.624	8681
722285.685	4294393.075	5749	04-Nov-13	11042013-001.SSF	142919.7729	8682
722285.833	4294392.943	5511	04-Nov-13	11042013-001.SSF	142920.75	8683
722286.026	4294393.153	5704	04-Nov-13	11042013-001.SSF	142921.8408	8684
722286.446	4294393.406	5766	04-Nov-13	11042013-001.SSF	142922.687	8685
722287.39	4294393.738	6003	04-Nov-13	11042013-001.SSF	142923.8462	8686
722287.815	4294394.134	6189	04-Nov-13	11042013-001.SSF	142924.6758	8687
722287.929	4294394.36	5746	04-Nov-13	11042013-001.SSF	142925.7441	8688
722287.97	4294394.483	5572	04-Nov-13	11042013-001.SSF	142926.6631	8689
722287.749	4294395.16	5707	04-Nov-13	11042013-001.SSF	142927.7739	8690
722287.089	4294396.013	5782	04-Nov-13	11042013-001.SSF	142928.6899	8691
722286.422	4294396.773	5240	04-Nov-13	11042013-001.SSF	142929.6909	8692
722286.442	4294397.358	4965	04-Nov-13	11042013-001.SSF	142930.7402	8693
722286.791	4294398.071	5245	04-Nov-13	11042013-001.SSF	142931.7671	8694
722286.692	4294398.847	5058	04-Nov-13	11042013-001.SSF	142932.6768	8695
722286.158	4294399.743	5410	04-Nov-13	11042013-001.SSF	142933.7891	8696
722285.774	4294400.415	5615	04-Nov-13	11042013-001.SSF	142934.6689	8697
722285.588	4294401.246	5611	04-Nov-13	11042013-001.SSF	142935.7412	8698
722285.806	4294401.948	5414	04-Nov-13	11042013-001.SSF	142936.6401	8699
722286.513	4294402.609	5017	04-Nov-13	11042013-001.SSF	142937.7632	8700
722287.196	4294402.782	5492	04-Nov-13	11042013-001.SSF	142938.6582	8701
722287.768	4294402.751	5084	04-Nov-13	11042013-001.SSF	142939.9009	8702
722287.811	4294402.718	5470	04-Nov-13	11042013-001.SSF	142940.6748	8703
722287.868	4294402.708	5649	04-Nov-13	11042013-001.SSF	142941.7529	8704
722287.94	4294402.708	5210	04-Nov-13	11042013-001.SSF	142942.6538	8705
722288.009	4294402.691	5495	04-Nov-13	11042013-001.SSF	142943.6699	8706
722288.015	4294402.689	5791	04-Nov-13	11042013-001.SSF	142944.6841	8707
722287.84	4294402.744	5912	04-Nov-13	11042013-001.SSF	142945.7432	8708
722288.021	4294402.564	6461	04-Nov-13	11042013-001.SSF	142946.6621	8709
722288.425	4294402.29	6484	04-Nov-13	11042013-001.SSF	142947.7329	8710
722288.441	4294402.096	6415	04-Nov-13	11042013-001.SSF	142948.688	8711
722288.133	4294402.069	5805	04-Nov-13	11042013-001.SSF	142949.7471	8712

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722287.884	4294402.116	5793	04-Nov-13	11042013-001.SSF	142950.6499	8713
722287.881	4294402.253	5591	04-Nov-13	11042013-001.SSF	142951.7642	8714
722287.963	4294402.524	5395	04-Nov-13	11042013-001.SSF	142952.6592	8715
722288.08	4294402.812	5442	04-Nov-13	11042013-001.SSF	142953.7598	8716
722288.182	4294402.876	5731	04-Nov-13	11042013-001.SSF	142954.6821	8717
722288.281	4294402.858	6043	04-Nov-13	11042013-001.SSF	142955.751	8718
722288.191	4294402.877	6564	04-Nov-13	11042013-001.SSF	142956.6538	8719
722287.734	4294402.974	6460	04-Nov-13	11042013-001.SSF	142957.7388	8720
722287.23	4294403.176	6071	04-Nov-13	11042013-001.SSF	142958.6592	8721
722286.787	4294403.579	6145	04-Nov-13	11042013-001.SSF	142959.8149	8722
722286.671	4294403.902	6299	04-Nov-13	11042013-001.SSF	142960.6582	8723
722286.648	4294404.166	6280	04-Nov-13	11042013-001.SSF	142961.7588	8724
722286.642	4294404.158	5985	04-Nov-13	11042013-001.SSF	142962.6982	8725
722286.536	4294404.216	6359	04-Nov-13	11042013-001.SSF	142963.7852	8726
722286.54	4294404.212	6569	04-Nov-13	11042013-001.SSF	142964.667	8727
722286.663	4294403.895	7093	04-Nov-13	11042013-001.SSF	142965.7412	8728
722286.729	4294403.427	7289	04-Nov-13	11042013-001.SSF	142966.6919	8729
722286.94	4294402.83	7805	04-Nov-13	11042013-001.SSF	142967.7051	8730
722287.245	4294402.506	7135	04-Nov-13	11042013-001.SSF	142968.6172	8731
722287.476	4294402.67	7051	04-Nov-13	11042013-001.SSF	142969.7139	8732
722287.482	4294402.934	7018	04-Nov-13	11042013-001.SSF	142970.6392	8733
722287.395	4294403.052	6468	04-Nov-13	11042013-001.SSF	142971.7549	8734
722287.35	4294403.092	6930	04-Nov-13	11042013-001.SSF	142972.6729	8735
722287.312	4294403.139	6846	04-Nov-13	11042013-001.SSF	142973.7432	8736
722287.26	4294403.185	6288	04-Nov-13	11042013-001.SSF	142974.6548	8737
722287.197	4294403.253	6634	04-Nov-13	11042013-001.SSF	142975.7661	8738
722287.102	4294403.2	6064	04-Nov-13	11042013-001.SSF	142976.6729	8739
722287.239	4294402.914	5646	04-Nov-13	11042013-001.SSF	142977.769	8740
722287.408	4294402.381	5591	04-Nov-13	11042013-001.SSF	142978.6641	8741
722287.141	4294401.834	5822	04-Nov-13	11042013-001.SSF	142979.75	8742
722286.61	4294401.726	5420	04-Nov-13	11042013-001.SSF	142980.6621	8743
722286.151	4294401.719	5433	04-Nov-13	11042013-001.SSF	142981.6792	8744
722285.874	4294401.617	5314	04-Nov-13	11042013-001.SSF	142982.6221	8745
722285.873	4294401.491	6146	04-Nov-13	11042013-001.SSF	142983.6611	8746
722286.006	4294401.445	6060	04-Nov-13	11042013-001.SSF	142984.5942	8747
722286.03	4294401.417	5853	04-Nov-13	11042013-001.SSF	142985.7788	8748
722286.031	4294401.397	5287	04-Nov-13	11042013-001.SSF	142986.6919	8749
722286.034	4294401.364	5396	04-Nov-13	11042013-001.SSF	142987.71	8750
722286.034	4294401.332	5120	04-Nov-13	11042013-001.SSF	142988.6748	8751
722285.95	4294401.354	5243	04-Nov-13	11042013-001.SSF	142989.708	8752
722285.91	4294401.368	5199	04-Nov-13	11042013-001.SSF	142990.5718	8753
722285.954	4294401.348	5572	04-Nov-13	11042013-001.SSF	142991.7148	8754
722285.92	4294401.343	5346	04-Nov-13	11042013-001.SSF	142992.5952	8755
722285.828	4294401.368	5550	04-Nov-13	11042013-001.SSF	142993.7349	8756
722285.795	4294401.396	5754	04-Nov-13	11042013-001.SSF	142994.6528	8757
722285.865	4294401.432	5539	04-Nov-13	11042013-001.SSF	142995.8008	8758
722285.919	4294401.465	5388	04-Nov-13	11042013-001.SSF	142996.6899	8759

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722285.887	4294401.484	5416	04-Nov-13	11042013-001.SSF	142997.7012	8760
722285.876	4294401.48	5589	04-Nov-13	11042013-001.SSF	142998.708	8761
722285.939	4294401.457	5783	04-Nov-13	11042013-001.SSF	142999.7671	8762
722286.006	4294401.425	5908	04-Nov-13	11042013-001.SSF	143000.582	8763
722286.102	4294401.387	5558	04-Nov-13	11042013-001.SSF	143001.6372	8764
722286.168	4294401.39	5624	04-Nov-13	11042013-001.SSF	143002.6138	8765
722286.139	4294401.394	5631	04-Nov-13	11042013-001.SSF	143003.666	8766
722286.049	4294401.415	5395	04-Nov-13	11042013-001.SSF	143004.5952	8767
722285.978	4294401.472	5554	04-Nov-13	11042013-001.SSF	143005.7461	8768
722286.001	4294401.462	5599	04-Nov-13	11042013-001.SSF	143006.6821	8769
722286.026	4294401.405	5797	04-Nov-13	11042013-001.SSF	143007.71	8770
722286.056	4294401.352	6193	04-Nov-13	11042013-001.SSF	143008.6699	8771
722286.098	4294401.377	5951	04-Nov-13	11042013-001.SSF	143009.7368	8772
722286.059	4294401.417	5912	04-Nov-13	11042013-001.SSF	143010.5688	8773
722285.98	4294401.465	5891	04-Nov-13	11042013-001.SSF	143011.6411	8774
722285.915	4294401.487	5698	04-Nov-13	11042013-001.SSF	143012.6421	8775
722285.862	4294401.463	6160	04-Nov-13	11042013-001.SSF	143013.6372	8776
722285.905	4294401.468	6045	04-Nov-13	11042013-001.SSF	143014.646	8777
722286.008	4294401.506	6010	04-Nov-13	11042013-001.SSF	143015.7192	8778
722286.006	4294401.54	5901	04-Nov-13	11042013-001.SSF	143016.709	8779
722286.019	4294401.584	5996	04-Nov-13	11042013-001.SSF	143017.7212	8780
722286.084	4294401.66	5893	04-Nov-13	11042013-001.SSF	143018.728	8781
722286.055	4294401.711	5745	04-Nov-13	11042013-001.SSF	143019.7432	8782
722286.054	4294401.733	5654	04-Nov-13	11042013-001.SSF	143020.7139	8783
722286.138	4294401.751	5460	04-Nov-13	11042013-001.SSF	143021.7178	8784
722286.147	4294401.699	5508	04-Nov-13	11042013-001.SSF	143022.6299	8785
722286.175	4294401.574	5521	04-Nov-13	11042013-001.SSF	143023.7739	8786
722286.235	4294401.517	5948	04-Nov-13	11042013-001.SSF	143024.6611	8787
722286.51	4294401.308	5535	04-Nov-13	11042013-001.SSF	143025.6709	8788
722286.886	4294400.64	5589	04-Nov-13	11042013-001.SSF	143026.6318	8789
722287.308	4294400.324	6248	04-Nov-13	11042013-001.SSF	143027.7378	8790
722287.355	4294400.094	6522	04-Nov-13	11042013-001.SSF	143028.6401	8791
722287.22	4294399.833	6368	04-Nov-13	11042013-001.SSF	143029.6719	8792
722287.032	4294399.928	5885	04-Nov-13	11042013-001.SSF	143030.7158	8793
722286.869	4294399.924	5807	04-Nov-13	11042013-001.SSF	143031.7842	8794
722286.901	4294400.161	5464	04-Nov-13	11042013-001.SSF	143032.6592	8795
722286.936	4294400.267	5661	04-Nov-13	11042013-001.SSF	143033.7729	8796
722286.842	4294400.125	5412	04-Nov-13	11042013-001.SSF	143034.6279	8797
722286.117	4294400.278	5316	04-Nov-13	11042013-001.SSF	143035.7148	8798
722285.693	4294400.733	5098	04-Nov-13	11042013-001.SSF	143036.6582	8799
722285.436	4294401.322	5365	04-Nov-13	11042013-001.SSF	143037.728	8800
722285.217	4294401.824	5230	04-Nov-13	11042013-001.SSF	143038.6401	8801
722287.256	4294393.395	4632	04-Nov-13	11042013-002.SSF	152515	8802
722287.256	4294393.395	4630	04-Nov-13	11042013-002.SSF	152516	8803
722287.256	4294393.395	5499	04-Nov-13	11042013-002.SSF	152517	8804
722287.256	4294393.395	4961	04-Nov-13	11042013-002.SSF	152518	8805
722287.256	4294393.395	4553	04-Nov-13	11042013-002.SSF	152519	8806

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722287.256	4294393.395	4781	04-Nov-13	11042013-002.SSF	152520	8807
722287.256	4294393.395	4834	04-Nov-13	11042013-002.SSF	152521	8808
722287.256	4294393.395	4699	04-Nov-13	11042013-002.SSF	152522	8809
722287.256	4294393.395	4713	04-Nov-13	11042013-002.SSF	152523	8810
722287.256	4294393.395	4398	04-Nov-13	11042013-002.SSF	152524	8811
722287.256	4294393.395	4709	04-Nov-13	11042013-002.SSF	152525	8812
722287.256	4294393.395	4374	04-Nov-13	11042013-002.SSF	152526	8813
722287.256	4294393.395	4537	04-Nov-13	11042013-002.SSF	152527	8814
722287.256	4294393.395	4562	04-Nov-13	11042013-002.SSF	152528	8815
722287.256	4294393.395	4411	04-Nov-13	11042013-002.SSF	152529	8816
722287.256	4294393.395	4538	04-Nov-13	11042013-002.SSF	152530	8817
722287.256	4294393.395	4487	04-Nov-13	11042013-002.SSF	152531	8818
722287.256	4294393.395	4384	04-Nov-13	11042013-002.SSF	152532	8819
722287.256	4294393.395	4401	04-Nov-13	11042013-002.SSF	152533	8820
722287.256	4294393.395	4538	04-Nov-13	11042013-002.SSF	152534	8821
722287.256	4294393.395	4202	04-Nov-13	11042013-002.SSF	152535	8822
722287.256	4294393.395	4059	04-Nov-13	11042013-002.SSF	152536	8823
722287.256	4294393.395	3850	04-Nov-13	11042013-002.SSF	152522	8824
722287.256	4294393.395	4386	04-Nov-13	11042013-002.SSF	152523	8825
722287.256	4294393.395	4237	04-Nov-13	11042013-002.SSF	152524	8826
722287.035	4294393.508	4273	04-Nov-13	11042013-002.SSF	152540.547	8827
722287.035	4294393.54	4466	04-Nov-13	11042013-002.SSF	152541.624	8828
722287.071	4294393.563	4552	04-Nov-13	11042013-002.SSF	152542.507	8829
722287.049	4294393.58	4465	04-Nov-13	11042013-002.SSF	152543.643	8830
722287.008	4294393.585	4177	04-Nov-13	11042013-002.SSF	152544.543	8831
722286.988	4294393.582	4652	04-Nov-13	11042013-002.SSF	152545.665	8832
722286.999	4294393.563	4799	04-Nov-13	11042013-002.SSF	152546.565	8833
722286.982	4294393.569	4657	04-Nov-13	11042013-002.SSF	152547.625	8834
722286.939	4294393.6	4487	04-Nov-13	11042013-002.SSF	152548.563	8835
722286.895	4294393.629	4646	04-Nov-13	11042013-002.SSF	152549.659	8836
722286.868	4294393.648	4541	04-Nov-13	11042013-002.SSF	152550.563	8837
722286.846	4294393.666	5201	04-Nov-13	11042013-002.SSF	152551.661	8838
722286.814	4294393.672	4951	04-Nov-13	11042013-002.SSF	152552.539	8839
722286.783	4294393.674	4337	04-Nov-13	11042013-002.SSF	152553.647	8840
722286.773	4294393.678	4390	04-Nov-13	11042013-002.SSF	152554.546	8841
722286.765	4294393.686	4269	04-Nov-13	11042013-002.SSF	152555.655	8842
722286.764	4294393.694	4209	04-Nov-13	11042013-002.SSF	152556.511	8843
722286.764	4294393.703	4610	04-Nov-13	11042013-002.SSF	152557.558	8844
722286.789	4294393.708	4640	04-Nov-13	11042013-002.SSF	152558.541	8845
722286.894	4294393.682	4492	04-Nov-13	11042013-002.SSF	152559.651	8846
722286.975	4294393.654	4629	04-Nov-13	11042013-002.SSF	152560.492	8847
722287.032	4294393.617	5037	04-Nov-13	11042013-002.SSF	152561.655	8848
722287.048	4294393.579	4761	04-Nov-13	11042013-002.SSF	152562.518	8849
722287.085	4294393.527	4358	04-Nov-13	11042013-002.SSF	152563.617	8850
722287.124	4294393.483	4026	04-Nov-13	11042013-002.SSF	152564.563	8851
722287.092	4294393.441	4335	04-Nov-13	11042013-002.SSF	152565.689	8852
722287.11	4294393.428	4373	04-Nov-13	11042013-002.SSF	152566.578	8853

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.159	4294393.471	4447	04-Nov-13	11042013-002.SSF	152567.693	8854
722287.072	4294393.536	4264	04-Nov-13	11042013-002.SSF	152568.576	8855
722286.913	4294393.577	4453	04-Nov-13	11042013-002.SSF	152569.627	8856
722286.832	4294393.5	3877	04-Nov-13	11042013-002.SSF	152570.588	8857
722286.923	4294393.324	3898	04-Nov-13	11042013-002.SSF	152571.677	8858
722287.004	4294393.267	4278	04-Nov-13	11042013-002.SSF	152572.568	8859
722286.986	4294393.281	4244	04-Nov-13	11042013-002.SSF	152573.601	8860
722286.911	4294393.297	4749	04-Nov-13	11042013-002.SSF	152574.564	8861
722286.872	4294393.295	4711	04-Nov-13	11042013-002.SSF	152575.602	8862
722286.895	4294393.279	4457	04-Nov-13	11042013-002.SSF	152576.559	8863
722286.911	4294393.272	4270	04-Nov-13	11042013-002.SSF	152577.571	8864
722286.921	4294393.267	4397	04-Nov-13	11042013-002.SSF	152578.559	8865
722286.945	4294393.248	4813	04-Nov-13	11042013-002.SSF	152579.611	8866
722286.926	4294393.241	4627	04-Nov-13	11042013-002.SSF	152580.522	8867
722286.881	4294393.24	4673	04-Nov-13	11042013-002.SSF	152581.565	8868
722286.878	4294393.248	4856	04-Nov-13	11042013-002.SSF	152582.553	8869
722286.942	4294393.217	4741	04-Nov-13	11042013-002.SSF	152583.57	8870
722286.976	4294393.188	4624	04-Nov-13	11042013-002.SSF	152584.527	8871
722286.957	4294393.194	4739	04-Nov-13	11042013-002.SSF	152585.59	8872
722287.016	4294393.189	4503	04-Nov-13	11042013-002.SSF	152586.54	8873
722287.085	4294393.212	4888	04-Nov-13	11042013-002.SSF	152587.64	8874
722287.07	4294393.238	4856	04-Nov-13	11042013-002.SSF	152588.541	8875
722287.02	4294393.209	4517	04-Nov-13	11042013-002.SSF	152589.671	8876
722286.99	4294393.165	4633	04-Nov-13	11042013-002.SSF	152590.596	8877
722286.998	4294393.109	4263	04-Nov-13	11042013-002.SSF	152591.65	8878
722287.023	4294393.078	4746	04-Nov-13	11042013-002.SSF	152592.543	8879
722287.017	4294393.056	4634	04-Nov-13	11042013-002.SSF	152593.596	8880
722286.995	4294393.037	4684	04-Nov-13	11042013-002.SSF	152594.589	8881
722286.976	4294393.019	4720	04-Nov-13	11042013-002.SSF	152595.591	8882
722287.014	4294392.983	4477	04-Nov-13	11042013-002.SSF	152596.554	8883
722287.096	4294392.967	4491	04-Nov-13	11042013-002.SSF	152597.553	8884
722287.15	4294392.972	3943	04-Nov-13	11042013-002.SSF	152598.542	8885
722287.161	4294392.972	4026	04-Nov-13	11042013-002.SSF	152599.605	8886
722287.135	4294392.953	4604	04-Nov-13	11042013-002.SSF	152600.519	8887
722287.111	4294392.927	4922	04-Nov-13	11042013-002.SSF	152601.626	8888
722287.105	4294392.917	4141	04-Nov-13	11042013-002.SSF	152602.525	8889
722287.089	4294392.904	4137	04-Nov-13	11042013-002.SSF	152603.628	8890
722287.066	4294392.889	3992	04-Nov-13	11042013-002.SSF	152604.48	8891
722287.04	4294392.869	4068	04-Nov-13	11042013-002.SSF	152605.725	8892
722287.029	4294392.842	4215	04-Nov-13	11042013-002.SSF	152606.626	8893
722287.027	4294392.828	4328	04-Nov-13	11042013-002.SSF	152607.599	8894
722287.023	4294392.833	4055	04-Nov-13	11042013-002.SSF	152608.548	8895
722286.996	4294392.824	4275	04-Nov-13	11042013-002.SSF	152609.639	8896
722286.976	4294392.817	4115	04-Nov-13	11042013-002.SSF	152610.603	8897
722286.951	4294392.802	4249	04-Nov-13	11042013-002.SSF	152611.686	8898
722286.936	4294392.788	4595	04-Nov-13	11042013-002.SSF	152612.541	8899
722286.935	4294392.788	4182	04-Nov-13	11042013-002.SSF	152613.608	8900

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.936	4294392.792	3875	04-Nov-13	11042013-002.SSF	152614.583	8901
722286.933	4294392.791	4257	04-Nov-13	11042013-002.SSF	152615.583	8902
722286.915	4294392.778	4562	04-Nov-13	11042013-002.SSF	152616.546	8903
722286.885	4294392.757	4336	04-Nov-13	11042013-002.SSF	152617.604	8904
722286.866	4294392.742	4501	04-Nov-13	11042013-002.SSF	152618.46	8905
722286.847	4294392.729	4632	04-Nov-13	11042013-002.SSF	152619.553	8906
722286.827	4294392.72	4773	04-Nov-13	11042013-002.SSF	152620.599	8907
722286.804	4294392.709	4687	04-Nov-13	11042013-002.SSF	152621.609	8908
722286.784	4294392.698	4819	04-Nov-13	11042013-002.SSF	152622.601	8909
722286.767	4294392.693	4533	04-Nov-13	11042013-002.SSF	152623.704	8910
722286.752	4294392.688	4545	04-Nov-13	11042013-002.SSF	152624.604	8911
722286.735	4294392.682	4806	04-Nov-13	11042013-002.SSF	152625.681	8912
722286.73	4294392.677	5088	04-Nov-13	11042013-002.SSF	152626.566	8913
722286.722	4294392.672	4647	04-Nov-13	11042013-002.SSF	152627.616	8914
722286.71	4294392.668	4736	04-Nov-13	11042013-002.SSF	152628.6	8915
722286.699	4294392.661	4539	04-Nov-13	11042013-002.SSF	152629.64	8916
722286.688	4294392.651	4608	04-Nov-13	11042013-002.SSF	152630.493	8917
722286.667	4294392.628	4512	04-Nov-13	11042013-002.SSF	152631.657	8918
722286.649	4294392.61	4158	04-Nov-13	11042013-002.SSF	152632.541	8919
722286.632	4294392.595	4161	04-Nov-13	11042013-002.SSF	152633.605	8920
722286.625	4294392.59	3998	04-Nov-13	11042013-002.SSF	152634.557	8921
722286.621	4294392.593	4251	04-Nov-13	11042013-002.SSF	152635.601	8922
722286.616	4294392.598	4274	04-Nov-13	11042013-002.SSF	152636.493	8923
722286.614	4294392.6	4301	04-Nov-13	11042013-002.SSF	152637.626	8924
722286.613	4294392.596	4167	04-Nov-13	11042013-002.SSF	152638.496	8925
722286.613	4294392.584	4324	04-Nov-13	11042013-002.SSF	152639.602	8926
722286.613	4294392.573	4284	04-Nov-13	11042013-002.SSF	152640.512	8927
722286.615	4294392.567	3910	04-Nov-13	11042013-002.SSF	152641.613	8928
722286.617	4294392.569	4157	04-Nov-13	11042013-002.SSF	152642.529	8929
722286.611	4294392.574	4370	04-Nov-13	11042013-002.SSF	152643.616	8930
722286.599	4294392.576	4581	04-Nov-13	11042013-002.SSF	152644.499	8931
722286.584	4294392.569	4279	04-Nov-13	11042013-002.SSF	152645.618	8932
722286.576	4294392.565	4192	04-Nov-13	11042013-002.SSF	152646.488	8933
722286.569	4294392.564	4158	04-Nov-13	11042013-002.SSF	152647.673	8934
722286.566	4294392.563	4206	04-Nov-13	11042013-002.SSF	152648.549	8935
722286.561	4294392.562	4121	04-Nov-13	11042013-002.SSF	152649.618	8936
722286.557	4294392.563	4688	04-Nov-13	11042013-002.SSF	152650.49	8937
722286.551	4294392.567	4519	04-Nov-13	11042013-002.SSF	152651.673	8938
722286.547	4294392.572	4597	04-Nov-13	11042013-002.SSF	152652.543	8939
722286.539	4294392.577	4611	04-Nov-13	11042013-002.SSF	152653.596	8940
722286.533	4294392.58	4596	04-Nov-13	11042013-002.SSF	152654.493	8941
722286.526	4294392.58	4565	04-Nov-13	11042013-002.SSF	152655.603	8942
722286.52	4294392.581	4593	04-Nov-13	11042013-002.SSF	152656.517	8943
722286.515	4294392.586	4511	04-Nov-13	11042013-002.SSF	152657.611	8944
722286.51	4294392.589	4307	04-Nov-13	11042013-002.SSF	152658.512	8945
722286.499	4294392.592	4417	04-Nov-13	11042013-002.SSF	152659.664	8946
722286.487	4294392.593	4675	04-Nov-13	11042013-002.SSF	152660.501	8947

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.471	4294392.595	4842	04-Nov-13	11042013-002.SSF	152661.6	8948
722286.461	4294392.596	5108	04-Nov-13	11042013-002.SSF	152662.589	8949
722286.456	4294392.596	4816	04-Nov-13	11042013-002.SSF	152663.581	8950
722286.453	4294392.598	4951	04-Nov-13	11042013-002.SSF	152664.591	8951
722286.445	4294392.6	4630	04-Nov-13	11042013-002.SSF	152665.522	8952
722286.434	4294392.602	4442	04-Nov-13	11042013-002.SSF	152666.476	8953
722286.431	4294392.607	4403	04-Nov-13	11042013-002.SSF	152667.501	8954
722286.437	4294392.612	4472	04-Nov-13	11042013-002.SSF	152668.49	8955
722286.437	4294392.613	4368	04-Nov-13	11042013-002.SSF	152669.518	8956
722286.43	4294392.613	4617	04-Nov-13	11042013-002.SSF	152670.528	8957
722286.424	4294392.615	4292	04-Nov-13	11042013-002.SSF	152671.549	8958
722286.419	4294392.62	4297	04-Nov-13	11042013-002.SSF	152672.537	8959
722286.414	4294392.624	4667	04-Nov-13	11042013-002.SSF	152673.573	8960
722286.409	4294392.624	4950	04-Nov-13	11042013-002.SSF	152674.468	8961
722286.404	4294392.626	4607	04-Nov-13	11042013-002.SSF	152675.587	8962
722286.401	4294392.631	4616	04-Nov-13	11042013-002.SSF	152676.448	8963
722286.399	4294392.644	4411	04-Nov-13	11042013-002.SSF	152677.584	8964
722286.401	4294392.649	4566	04-Nov-13	11042013-002.SSF	152678.447	8965
722286.409	4294392.648	4653	04-Nov-13	11042013-002.SSF	152679.586	8966
722286.414	4294392.651	4717	04-Nov-13	11042013-002.SSF	152680.49	8967
722286.414	4294392.658	4206	04-Nov-13	11042013-002.SSF	152681.553	8968
722286.414	4294392.666	4128	04-Nov-13	11042013-002.SSF	152682.516	8969
722286.41	4294392.672	4354	04-Nov-13	11042013-002.SSF	152683.585	8970
722286.4	4294392.673	4407	04-Nov-13	11042013-002.SSF	152684.472	8971
722286.392	4294392.676	4743	04-Nov-13	11042013-002.SSF	152685.511	8972
722286.396	4294392.688	4401	04-Nov-13	11042013-002.SSF	152686.515	8973
722286.418	4294392.711	4598	04-Nov-13	11042013-002.SSF	152687.539	8974
722286.437	4294392.742	4274	04-Nov-13	11042013-002.SSF	152688.44	8975
722286.432	4294392.775	4436	04-Nov-13	11042013-002.SSF	152689.53	8976
722286.421	4294392.771	4655	04-Nov-13	11042013-002.SSF	152690.504	8977
722286.446	4294392.725	4238	04-Nov-13	11042013-002.SSF	152691.632	8978
722286.661	4294392.574	4499	04-Nov-13	11042013-002.SSF	152692.538	8979
722286.971	4294392.608	4833	04-Nov-13	11042013-002.SSF	152693.647	8980
722287.028	4294392.691	5306	04-Nov-13	11042013-002.SSF	152694.511	8981
722286.904	4294392.601	4830	04-Nov-13	11042013-002.SSF	152695.561	8982
722286.712	4294392.446	4801	04-Nov-13	11042013-002.SSF	152696.531	8983
722286.539	4294392.316	4830	04-Nov-13	11042013-002.SSF	152697.567	8984
722286.434	4294392.284	4750	04-Nov-13	11042013-002.SSF	152698.472	8985
722286.288	4294392.332	4351	04-Nov-13	11042013-002.SSF	152699.575	8986
722286.149	4294392.416	3993	04-Nov-13	11042013-002.SSF	152700.426	8987
722286.01	4294392.475	4098	04-Nov-13	11042013-002.SSF	152701.464	8988
722285.903	4294392.445	4038	04-Nov-13	11042013-002.SSF	152702.413	8989
722285.755	4294392.443	4041	04-Nov-13	11042013-002.SSF	152703.549	8990
722285.62	4294392.47	3653	04-Nov-13	11042013-002.SSF	152704.449	8991
722285.457	4294392.499	3915	04-Nov-13	11042013-002.SSF	152705.59	8992
722285.332	4294392.561	4557	04-Nov-13	11042013-002.SSF	152706.478	8993
722285.222	4294392.699	4206	04-Nov-13	11042013-002.SSF	152707.58	8994

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722285.256	4294392.902	4166	04-Nov-13	11042013-002.SSF	152708.481	8995
722285.243	4294393.103	4503	04-Nov-13	11042013-002.SSF	152709.561	8996
722285.231	4294393.241	4843	04-Nov-13	11042013-002.SSF	152710.524	8997
722285.199	4294393.38	4479	04-Nov-13	11042013-002.SSF	152711.629	8998
722285.139	4294393.476	4492	04-Nov-13	11042013-002.SSF	152712.498	8999
722285.074	4294393.637	4807	04-Nov-13	11042013-002.SSF	152713.593	9000
722285.023	4294393.799	4473	04-Nov-13	11042013-002.SSF	152714.5	9001
722284.927	4294393.962	4474	04-Nov-13	11042013-002.SSF	152715.501	9002
722284.857	4294394.109	4466	04-Nov-13	11042013-002.SSF	152716.484	9003
722284.837	4294394.237	4485	04-Nov-13	11042013-002.SSF	152717.545	9004
722284.891	4294394.226	4270	04-Nov-13	11042013-002.SSF	152718.424	9005
722285.031	4294394.169	4367	04-Nov-13	11042013-002.SSF	152719.492	9006
722285.099	4294394.138	4511	04-Nov-13	11042013-002.SSF	152720.546	9007
722285.19	4294394.116	4247	04-Nov-13	11042013-002.SSF	152721.584	9008
722285.256	4294394.107	4144	04-Nov-13	11042013-002.SSF	152722.483	9009
722285.251	4294394.165	4386	04-Nov-13	11042013-002.SSF	152723.632	9010
722285.274	4294394.261	4537	04-Nov-13	11042013-002.SSF	152724.486	9011
722285.358	4294394.339	4157	04-Nov-13	11042013-002.SSF	152725.597	9012
722285.375	4294394.351	4371	04-Nov-13	11042013-002.SSF	152726.558	9013
722285.296	4294394.443	4656	04-Nov-13	11042013-002.SSF	152727.648	9014
722285.296	4294394.535	4644	04-Nov-13	11042013-002.SSF	152728.523	9015
722285.515	4294394.528	4352	04-Nov-13	11042013-002.SSF	152729.605	9016
722285.725	4294394.491	4398	04-Nov-13	11042013-002.SSF	152730.484	9017
722285.878	4294394.463	4289	04-Nov-13	11042013-002.SSF	152731.546	9018
722285.98	4294394.411	3987	04-Nov-13	11042013-002.SSF	152732.478	9019
722286.086	4294394.372	4087	04-Nov-13	11042013-002.SSF	152733.534	9020
722286.159	4294394.341	4114	04-Nov-13	11042013-002.SSF	152734.421	9021
722286.223	4294394.275	4384	04-Nov-13	11042013-002.SSF	152735.585	9022
722286.275	4294394.224	4513	04-Nov-13	11042013-002.SSF	152736.522	9023
722286.321	4294394.165	4204	04-Nov-13	11042013-002.SSF	152737.6	9024
722286.346	4294394.096	4209	04-Nov-13	11042013-002.SSF	152738.554	9025
722286.375	4294394.067	4633	04-Nov-13	11042013-002.SSF	152739.606	9026
722286.4	4294394.011	4646	04-Nov-13	11042013-002.SSF	152740.464	9027
722286.426	4294393.838	4683	04-Nov-13	11042013-002.SSF	152741.569	9028
722286.446	4294393.741	4389	04-Nov-13	11042013-002.SSF	152742.46	9029
722286.469	4294393.67	4284	04-Nov-13	11042013-002.SSF	152743.596	9030
722286.466	4294393.696	4644	04-Nov-13	11042013-002.SSF	152744.504	9031
722286.444	4294393.749	4487	04-Nov-13	11042013-002.SSF	152745.587	9032
722286.407	4294393.725	4399	04-Nov-13	11042013-002.SSF	152746.48	9033
722286.353	4294393.559	4724	04-Nov-13	11042013-002.SSF	152747.575	9034
722286.329	4294393.47	4502	04-Nov-13	11042013-002.SSF	152748.553	9035
722286.303	4294393.457	4325	04-Nov-13	11042013-002.SSF	152749.589	9036
722286.284	4294393.424	4548	04-Nov-13	11042013-002.SSF	152750.484	9037
722286.336	4294393.656	4215	04-Nov-13	11042013-002.SSF	152751.574	9038
722286.383	4294393.855	4246	04-Nov-13	11042013-002.SSF	152752.509	9039
722286.38	4294393.884	4053	04-Nov-13	11042013-002.SSF	152753.564	9040
722286.383	4294394.012	4050	04-Nov-13	11042013-002.SSF	152754.486	9041

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.5	4294394.476	4340	04-Nov-13	11042013-002.SSF	152755.579	9042
722286.664	4294394.803	5051	04-Nov-13	11042013-002.SSF	152756.446	9043
722286.801	4294395.052	5744	04-Nov-13	11042013-002.SSF	152757.511	9044
722286.865	4294395.319	6088	04-Nov-13	11042013-002.SSF	152758.507	9045
722287.076	4294395.685	5464	04-Nov-13	11042013-002.SSF	152759.563	9046
722287.494	4294396.258	5271	04-Nov-13	11042013-002.SSF	152760.463	9047
722288.036	4294397.143	4855	04-Nov-13	11042013-002.SSF	152761.589	9048
722288.26	4294397.871	4913	04-Nov-13	11042013-002.SSF	152762.552	9049
722288.361	4294398.533	5411	04-Nov-13	11042013-002.SSF	152763.611	9050
722288.516	4294399.03	5391	04-Nov-13	11042013-002.SSF	152764.493	9051
722288.542	4294399.677	5290	04-Nov-13	11042013-002.SSF	152765.487	9052
722288.284	4294400.389	5428	04-Nov-13	11042013-002.SSF	152766.417	9053
722287.928	4294401.328	5190	04-Nov-13	11042013-002.SSF	152767.468	9054
722287.734	4294402.239	5627	04-Nov-13	11042013-002.SSF	152768.425	9055
722287.785	4294403.094	5985	04-Nov-13	11042013-002.SSF	152769.514	9056
722287.669	4294403.578	5751	04-Nov-13	11042013-002.SSF	152770.486	9057
722287.319	4294403.936	5665	04-Nov-13	11042013-002.SSF	152771.49	9058
722287.032	4294404.431	5706	04-Nov-13	11042013-002.SSF	152772.486	9059
722286.769	4294405.042	5730	04-Nov-13	11042013-002.SSF	152773.536	9060
722286.565	4294405.547	5623	04-Nov-13	11042013-002.SSF	152774.469	9061
722286.554	4294405.907	6973	04-Nov-13	11042013-002.SSF	152775.587	9062
722286.887	4294406.016	7072	04-Nov-13	11042013-002.SSF	152776.554	9063
722287.267	4294406.187	7413	04-Nov-13	11042013-002.SSF	152777.606	9064
722287.585	4294406.531	8190	04-Nov-13	11042013-002.SSF	152778.561	9065
722287.856	4294406.923	8371	04-Nov-13	11042013-002.SSF	152779.616	9066
722287.93	4294407.145	7731	04-Nov-13	11042013-002.SSF	152780.39	9067
722287.965	4294407.406	8121	04-Nov-13	11042013-002.SSF	152781.567	9068
722288.039	4294407.434	8760	04-Nov-13	11042013-002.SSF	152782.467	9069
722288.114	4294407.359	8618	04-Nov-13	11042013-002.SSF	152783.531	9070
722287.979	4294407.376	9415	04-Nov-13	11042013-002.SSF	152784.464	9071
722287.7	4294407.603	8671	04-Nov-13	11042013-002.SSF	152785.583	9072
722287.483	4294407.759	8830	04-Nov-13	11042013-002.SSF	152786.533	9073
722287.4	4294407.891	8536	04-Nov-13	11042013-002.SSF	152787.626	9074
722287.555	4294408.03	8514	04-Nov-13	11042013-002.SSF	152788.532	9075
722287.467	4294408.038	8846	04-Nov-13	11042013-002.SSF	152789.575	9076
722286.844	4294407.841	8988	04-Nov-13	11042013-002.SSF	152790.49	9077
722286.138	4294407.693	8836	04-Nov-13	11042013-002.SSF	152791.505	9078
722285.883	4294407.692	9013	04-Nov-13	11042013-002.SSF	152792.417	9079
722285.953	4294407.724	8707	04-Nov-13	11042013-002.SSF	152793.531	9080
722286.168	4294407.64	8422	04-Nov-13	11042013-002.SSF	152794.425	9081
722286.481	4294407.722	7670	04-Nov-13	11042013-002.SSF	152795.593	9082
722286.85	4294407.602	6909	04-Nov-13	11042013-002.SSF	152796.49	9083
722287.297	4294406.923	6639	04-Nov-13	11042013-002.SSF	152797.589	9084
722287.528	4294406.619	6502	04-Nov-13	11042013-002.SSF	152798.51	9085
722287.604	4294406.079	6019	04-Nov-13	11042013-002.SSF	152799.583	9086
722287.607	4294405.393	6071	04-Nov-13	11042013-002.SSF	152800.402	9087
722287.605	4294404.464	5770	04-Nov-13	11042013-002.SSF	152801.558	9088

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.572	4294403.81	5345	04-Nov-13	11042013-002.SSF	152802.45	9089
722287.611	4294403.085	5392	04-Nov-13	11042013-002.SSF	152803.529	9090
722287.737	4294402.48	5538	04-Nov-13	11042013-002.SSF	152804.397	9091
722287.963	4294401.929	5687	04-Nov-13	11042013-002.SSF	152805.613	9092
722287.988	4294401.888	5576	04-Nov-13	11042013-002.SSF	152806.45	9093
722287.775	4294402.165	5559	04-Nov-13	11042013-002.SSF	152807.517	9094
722287.502	4294402.653	5759	04-Nov-13	11042013-002.SSF	152808.509	9095
722287.224	4294403.178	5557	04-Nov-13	11042013-002.SSF	152809.552	9096
722287.226	4294403.466	5923	04-Nov-13	11042013-002.SSF	152810.44	9097
722287.593	4294403.646	6422	04-Nov-13	11042013-002.SSF	152811.593	9098
722287.718	4294403.885	5982	04-Nov-13	11042013-002.SSF	152812.422	9099
722287.921	4294404.319	5975	04-Nov-13	11042013-002.SSF	152813.55	9100
722288.235	4294404.673	6046	04-Nov-13	11042013-002.SSF	152814.515	9101
722288.242	4294404.929	6093	04-Nov-13	11042013-002.SSF	152815.636	9102
722288.058	4294405.045	6550	04-Nov-13	11042013-002.SSF	152816.484	9103
722287.701	4294404.992	6387	04-Nov-13	11042013-002.SSF	152817.632	9104
722287.513	4294404.796	7043	04-Nov-13	11042013-002.SSF	152818.505	9105
722287.522	4294404.789	7044	04-Nov-13	11042013-002.SSF	152819.61	9106
722287.537	4294404.963	6970	04-Nov-13	11042013-002.SSF	152820.367	9107
722287.36	4294405.263	7333	04-Nov-13	11042013-002.SSF	152821.527	9108
722287.14	4294405.419	8437	04-Nov-13	11042013-002.SSF	152822.419	9109
722286.889	4294405.67	8901	04-Nov-13	11042013-002.SSF	152823.458	9110
722286.774	4294406.053	8614	04-Nov-13	11042013-002.SSF	152824.447	9111
722286.965	4294406.463	9158	04-Nov-13	11042013-002.SSF	152825.58	9112
722287.428	4294406.722	9351	04-Nov-13	11042013-002.SSF	152826.485	9113
722287.789	4294406.8	9205	04-Nov-13	11042013-002.SSF	152827.514	9114
722287.563	4294406.804	8965	04-Nov-13	11042013-002.SSF	152828.476	9115
722287.321	4294406.908	8845	04-Nov-13	11042013-002.SSF	152829.555	9116
722287.359	4294407.047	9033	04-Nov-13	11042013-002.SSF	152830.362	9117
722287.549	4294407.354	9198	04-Nov-13	11042013-002.SSF	152831.514	9118
722287.783	4294407.518	9389	04-Nov-13	11042013-002.SSF	152832.36	9119
722288.125	4294407.552	9128	04-Nov-13	11042013-002.SSF	152833.492	9120
722288.308	4294407.447	9335	04-Nov-13	11042013-002.SSF	152834.4	9121
722288.382	4294407.188	8918	04-Nov-13	11042013-002.SSF	152835.495	9122
722288.482	4294407.054	8954	04-Nov-13	11042013-002.SSF	152836.398	9123
722288.55	4294406.902	8891	04-Nov-13	11042013-002.SSF	152837.55	9124
722288.557	4294406.796	9449	04-Nov-13	11042013-002.SSF	152838.449	9125
722288.877	4294406.75	8772	04-Nov-13	11042013-002.SSF	152839.472	9126
722289.285	4294406.649	8497	04-Nov-13	11042013-002.SSF	152840.498	9127
722289.641	4294406.714	8199	04-Nov-13	11042013-002.SSF	152841.596	9128
722289.948	4294406.807	8707	04-Nov-13	11042013-002.SSF	152842.436	9129
722290.19	4294406.82	8880	04-Nov-13	11042013-002.SSF	152843.587	9130
722290.217	4294406.763	8857	04-Nov-13	11042013-002.SSF	152844.522	9131
722290.348	4294406.748	9295	04-Nov-13	11042013-002.SSF	152845.588	9132
722290.484	4294406.708	9436	04-Nov-13	11042013-002.SSF	152846.513	9133
722290.491	4294406.547	8885	04-Nov-13	11042013-002.SSF	152847.592	9134
722290.415	4294406.411	9003	04-Nov-13	11042013-002.SSF	152848.512	9135

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722290.259	4294406.208	8739	04-Nov-13	11042013-002.SSF	152849.572	9136
722290.1	4294406.063	8688	04-Nov-13	11042013-002.SSF	152850.478	9137
722290.176	4294406.103	8862	04-Nov-13	11042013-002.SSF	152851.592	9138
722290.291	4294406.251	8960	04-Nov-13	11042013-002.SSF	152852.502	9139
722290.329	4294406.479	9727	04-Nov-13	11042013-002.SSF	152853.502	9140
722290.39	4294406.719	9431	04-Nov-13	11042013-002.SSF	152854.512	9141
722290.533	4294406.953	9385	04-Nov-13	11042013-002.SSF	152855.582	9142
722290.629	4294407.07	9569	04-Nov-13	11042013-002.SSF	152856.461	9143
722290.59	4294407.091	9725	04-Nov-13	11042013-002.SSF	152857.549	9144
722290.488	4294407.08	9415	04-Nov-13	11042013-002.SSF	152858.532	9145
722290.268	4294407.092	9751	04-Nov-13	11042013-002.SSF	152859.609	9146
722290.06	4294407.02	9610	04-Nov-13	11042013-002.SSF	152860.387	9147
722290.074	4294406.971	8563	04-Nov-13	11042013-002.SSF	152861.543	9148
722290.453	4294407.169	8386	04-Nov-13	11042013-002.SSF	152862.401	9149
722291.056	4294407.496	8317	04-Nov-13	11042013-002.SSF	152863.517	9150
722291.181	4294407.595	8923	04-Nov-13	11042013-002.SSF	152864.363	9151
722290.525	4294407.46	8717	04-Nov-13	11042013-002.SSF	152865.505	9152
722289.772	4294407.6	8271	04-Nov-13	11042013-002.SSF	152866.412	9153
722288.767	4294407.916	8282	04-Nov-13	11042013-002.SSF	152867.562	9154
722287.951	4294407.8	8738	04-Nov-13	11042013-002.SSF	152868.461	9155
722287.529	4294407.675	9318	04-Nov-13	11042013-002.SSF	152869.578	9156
722287.563	4294407.482	8234	04-Nov-13	11042013-002.SSF	152870.41	9157
722287.646	4294406.928	7684	04-Nov-13	11042013-002.SSF	152871.509	9158
722287.746	4294406.379	6722	04-Nov-13	11042013-002.SSF	152872.372	9159
722287.761	4294405.488	6803	04-Nov-13	11042013-002.SSF	152873.511	9160
722287.774	4294404.906	6729	04-Nov-13	11042013-002.SSF	152874.382	9161
722288.138	4294404.113	6290	04-Nov-13	11042013-002.SSF	152875.566	9162
722288.469	4294403.359	5623	04-Nov-13	11042013-002.SSF	152876.432	9163
722288.744	4294402.392	5263	04-Nov-13	11042013-002.SSF	152877.588	9164
722288.742	4294401.709	5173	04-Nov-13	11042013-002.SSF	152878.442	9165
722288.541	4294400.657	5287	04-Nov-13	11042013-002.SSF	152879.533	9166
722288.336	4294399.747	4939	04-Nov-13	11042013-002.SSF	152880.509	9167
722288.174	4294398.73	5380	04-Nov-13	11042013-002.SSF	152881.593	9168
722288.115	4294397.805	5209	04-Nov-13	11042013-002.SSF	152882.43	9169
722288.206	4294396.808	5255	04-Nov-13	11042013-002.SSF	152883.531	9170
722288.386	4294395.926	4771	04-Nov-13	11042013-002.SSF	152884.509	9171
722288.464	4294394.882	5076	04-Nov-13	11042013-002.SSF	152885.486	9172
722288.051	4294393.672	6211	04-Nov-13	11042013-002.SSF	152888.437	9173
722288.157	4294393.653	5721	04-Nov-13	11042013-002.SSF	152889.517	9174
722288.381	4294393.654	5535	04-Nov-13	11042013-002.SSF	152890.404	9175
722288.681	4294393.611	5438	04-Nov-13	11042013-002.SSF	152891.482	9176
722289.282	4294393.678	5400	04-Nov-13	11042013-002.SSF	152893.519	9177
722289.45	4294393.718	5280	04-Nov-13	11042013-002.SSF	152894.403	9178
722289.565	4294393.61	5887	04-Nov-13	11042013-002.SSF	152895.528	9179
722289.595	4294393.561	6004	04-Nov-13	11042013-002.SSF	152896.382	9180
722289.823	4294393.837	6205	04-Nov-13	11042013-002.SSF	152897.535	9181
722289.991	4294394.205	5928	04-Nov-13	11042013-002.SSF	152898.385	9182

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722290.048	4294394.89	6041	04-Nov-13	11042013-002.SSF	152899.485	9183
722290.142	4294395.4	5821	04-Nov-13	11042013-002.SSF	152900.397	9184
722290.434	4294395.721	5539	04-Nov-13	11042013-002.SSF	152901.474	9185
722290.581	4294395.884	5291	04-Nov-13	11042013-002.SSF	152902.477	9186
722290.459	4294395.952	5301	04-Nov-13	11042013-002.SSF	152903.492	9187
722290.193	4294395.996	4931	04-Nov-13	11042013-002.SSF	152904.443	9188
722289.945	4294396.092	5084	04-Nov-13	11042013-002.SSF	152905.492	9189
722289.796	4294396.183	5080	04-Nov-13	11042013-002.SSF	152906.447	9190
722289.651	4294396.227	4995	04-Nov-13	11042013-002.SSF	152907.488	9191
722289.376	4294396.329	5306	04-Nov-13	11042013-002.SSF	152908.469	9192
722289.074	4294396.529	5490	04-Nov-13	11042013-002.SSF	152909.456	9193
722288.952	4294396.746	5578	04-Nov-13	11042013-002.SSF	152910.385	9194
722288.887	4294396.945	4855	04-Nov-13	11042013-002.SSF	152911.478	9195
722288.892	4294396.993	4771	04-Nov-13	11042013-002.SSF	152912.374	9196
722288.839	4294397.045	4753	04-Nov-13	11042013-002.SSF	152913.426	9197
722288.774	4294397.126	5013	04-Nov-13	11042013-002.SSF	152914.379	9198
722288.69	4294397.109	4882	04-Nov-13	11042013-002.SSF	152915.483	9199
722288.562	4294397.033	5116	04-Nov-13	11042013-002.SSF	152916.432	9200
722288.407	4294397.027	4970	04-Nov-13	11042013-002.SSF	152917.446	9201
722288.324	4294397.107	4671	04-Nov-13	11042013-002.SSF	152918.39	9202
722288.398	4294397.211	5515	04-Nov-13	11042013-002.SSF	152919.489	9203
722288.447	4294397.283	5299	04-Nov-13	11042013-002.SSF	152920.462	9204
722288.447	4294397.252	5418	04-Nov-13	11042013-002.SSF	152921.503	9205
722288.511	4294397.139	5283	04-Nov-13	11042013-002.SSF	152922.406	9206
722288.529	4294397.04	5544	04-Nov-13	11042013-002.SSF	152923.511	9207
722288.468	4294396.993	5218	04-Nov-13	11042013-002.SSF	152924.422	9208
722288.34	4294396.87	5043	04-Nov-13	11042013-002.SSF	152925.549	9209
722288.22	4294396.763	4666	04-Nov-13	11042013-002.SSF	152926.405	9210
722288.11	4294396.654	4800	04-Nov-13	11042013-002.SSF	152927.474	9211
722288.018	4294396.564	4860	04-Nov-13	11042013-002.SSF	152928.458	9212
722287.948	4294396.475	4893	04-Nov-13	11042013-002.SSF	152929.481	9213
722287.773	4294396.419	4980	04-Nov-13	11042013-002.SSF	152930.491	9214
722287.432	4294396.364	5043	04-Nov-13	11042013-002.SSF	152931.548	9215
722287.238	4294396.267	4787	04-Nov-13	11042013-002.SSF	152932.499	9216
722287.215	4294396.097	5002	04-Nov-13	11042013-002.SSF	152933.468	9217
722287.233	4294395.975	5176	04-Nov-13	11042013-002.SSF	152934.413	9218
722287.299	4294396.077	4711	04-Nov-13	11042013-002.SSF	152935.506	9219
722287.404	4294396.252	4600	04-Nov-13	11042013-002.SSF	152936.462	9220
722287.482	4294396.387	4920	04-Nov-13	11042013-002.SSF	152937.543	9221
722287.577	4294396.487	5092	04-Nov-13	11042013-002.SSF	152938.444	9222
722287.655	4294396.638	4687	04-Nov-13	11042013-002.SSF	152939.501	9223
722287.668	4294396.784	4646	04-Nov-13	11042013-002.SSF	152940.398	9224
722287.782	4294396.956	4788	04-Nov-13	11042013-002.SSF	152941.508	9225
722287.911	4294397.068	5071	04-Nov-13	11042013-002.SSF	152942.508	9226
722288.01	4294397.14	5267	04-Nov-13	11042013-002.SSF	152943.511	9227
722288.104	4294397.192	4680	04-Nov-13	11042013-002.SSF	152944.403	9228
722288.247	4294397.285	5160	04-Nov-13	11042013-002.SSF	152945.49	9229

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.391	4294397.386	5332	04-Nov-13	11042013-002.SSF	152946.473	9230
722288.516	4294397.435	5534	04-Nov-13	11042013-002.SSF	152947.493	9231
722288.598	4294397.449	5258	04-Nov-13	11042013-002.SSF	152948.437	9232
722288.612	4294397.496	5417	04-Nov-13	11042013-002.SSF	152949.486	9233
722288.556	4294397.567	5297	04-Nov-13	11042013-002.SSF	152950.385	9234
722288.518	4294397.658	5102	04-Nov-13	11042013-002.SSF	152951.444	9235
722288.529	4294397.716	4782	04-Nov-13	11042013-002.SSF	152952.44	9236
722288.523	4294397.738	4970	04-Nov-13	11042013-002.SSF	152953.483	9237
722288.515	4294397.754	5158	04-Nov-13	11042013-002.SSF	152954.442	9238
722288.595	4294397.709	5084	04-Nov-13	11042013-002.SSF	152955.523	9239
722288.694	4294397.63	4959	04-Nov-13	11042013-002.SSF	152956.422	9240
722288.756	4294397.587	5062	04-Nov-13	11042013-002.SSF	152957.481	9241
722288.781	4294397.6	5075	04-Nov-13	11042013-002.SSF	152958.478	9242
722288.816	4294397.582	5149	04-Nov-13	11042013-002.SSF	152959.541	9243
722288.899	4294397.555	4629	04-Nov-13	11042013-002.SSF	152960.394	9244
722288.901	4294397.556	4838	04-Nov-13	11042013-002.SSF	152961.467	9245
722288.892	4294397.579	5369	04-Nov-13	11042013-002.SSF	152962.369	9246
722289.133	4294397.574	5058	04-Nov-13	11042013-002.SSF	152963.507	9247
722289.247	4294397.516	5343	04-Nov-13	11042013-002.SSF	152964.374	9248
722289.231	4294397.485	5030	04-Nov-13	11042013-002.SSF	152965.538	9249
722289.263	4294397.473	4779	04-Nov-13	11042013-002.SSF	152966.439	9250
722289.318	4294397.425	4983	04-Nov-13	11042013-002.SSF	152967.528	9251
722289.347	4294397.375	5308	04-Nov-13	11042013-002.SSF	152968.421	9252
722289.326	4294397.447	5445	04-Nov-13	11042013-002.SSF	152969.47	9253
722289.212	4294397.618	5373	04-Nov-13	11042013-002.SSF	152970.395	9254
722289.017	4294397.6	5092	04-Nov-13	11042013-002.SSF	152971.484	9255
722288.837	4294397.383	5062	04-Nov-13	11042013-002.SSF	152972.358	9256
722288.571	4294397.081	5307	04-Nov-13	11042013-002.SSF	152973.498	9257
722288.374	4294396.888	5325	04-Nov-13	11042013-002.SSF	152974.371	9258
722288.128	4294396.71	5200	04-Nov-13	11042013-002.SSF	152975.56	9259
722287.919	4294396.613	5062	04-Nov-13	11042013-002.SSF	152976.428	9260
722287.694	4294396.551	5007	04-Nov-13	11042013-002.SSF	152977.479	9261
722287.529	4294396.533	5016	04-Nov-13	11042013-002.SSF	152978.428	9262
722287.291	4294396.549	4476	04-Nov-13	11042013-002.SSF	152979.532	9263
722287.126	4294396.483	4985	04-Nov-13	11042013-002.SSF	152980.386	9264
722286.993	4294396.209	5034	04-Nov-13	11042013-002.SSF	152982.379	9265
722286.942	4294396.127	4564	04-Nov-13	11042013-002.SSF	152983.475	9266
722286.856	4294396.064	4674	04-Nov-13	11042013-002.SSF	152984.376	9267
722286.743	4294395.811	4789	04-Nov-13	11042013-002.SSF	152985.485	9268
722286.825	4294395.506	4689	04-Nov-13	11042013-002.SSF	152986.389	9269
722287.577	4294395.324	4747	04-Nov-13	11042013-002.SSF	152988.392	9270
722287.969	4294395.353	4928	04-Nov-13	11042013-002.SSF	152989.484	9271
722288.194	4294395.393	5149	04-Nov-13	11042013-002.SSF	152990.431	9272
722288.424	4294395.516	5056	04-Nov-13	11042013-002.SSF	152991.526	9273
722288.654	4294395.648	5064	04-Nov-13	11042013-002.SSF	152992.418	9274
722288.944	4294395.715	4888	04-Nov-13	11042013-002.SSF	152993.454	9275
722289.128	4294395.737	4977	04-Nov-13	11042013-002.SSF	152994.383	9276

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722289.196	4294395.776	4629	04-Nov-13	11042013-002.SSF	152995.505	9277
722289.229	4294395.776	4749	04-Nov-13	11042013-002.SSF	152996.402	9278
722289.321	4294395.79	4793	04-Nov-13	11042013-002.SSF	152997.494	9279
722289.395	4294395.844	5164	04-Nov-13	11042013-002.SSF	152998.441	9280
722289.485	4294395.913	5162	04-Nov-13	11042013-002.SSF	152999.433	9281
722289.588	4294395.951	5273	04-Nov-13	11042013-002.SSF	153000.354	9282
722289.698	4294396.006	5448	04-Nov-13	11042013-002.SSF	153001.492	9283
722289.785	4294396.013	5135	04-Nov-13	11042013-002.SSF	153002.449	9284
722289.89	4294396.009	5288	04-Nov-13	11042013-002.SSF	153003.487	9285
722289.98	4294395.995	4977	04-Nov-13	11042013-002.SSF	153004.447	9286
722290.106	4294395.941	4914	04-Nov-13	11042013-002.SSF	153005.422	9287
722290.34	4294395.986	5107	04-Nov-13	11042013-002.SSF	153007.481	9288
722290.481	4294396.009	4485	04-Nov-13	11042013-002.SSF	153008.346	9289
722290.607	4294395.985	4758	04-Nov-13	11042013-002.SSF	153009.479	9290
722290.675	4294395.934	4836	04-Nov-13	11042013-002.SSF	153010.401	9291
722290.72	4294395.89	4693	04-Nov-13	11042013-002.SSF	153011.476	9292
722290.75	4294395.858	4732	04-Nov-13	11042013-002.SSF	153012.426	9293
722290.697	4294395.885	5204	04-Nov-13	11042013-002.SSF	153013.488	9294
722290.527	4294395.946	4802	04-Nov-13	11042013-002.SSF	153014.461	9295
722290.341	4294396.104	4876	04-Nov-13	11042013-002.SSF	153015.481	9296
722290.162	4294396.224	5090	04-Nov-13	11042013-002.SSF	153016.363	9297
722289.865	4294396.233	4813	04-Nov-13	11042013-002.SSF	153017.426	9298
722289.481	4294396.148	5205	04-Nov-13	11042013-002.SSF	153018.412	9299
722288.988	4294395.899	5103	04-Nov-13	11042013-002.SSF	153019.496	9300
722288.681	4294395.83	4925	04-Nov-13	11042013-002.SSF	153020.377	9301
722288.324	4294395.806	4683	04-Nov-13	11042013-002.SSF	153021.457	9302
722288.051	4294395.746	4681	04-Nov-13	11042013-002.SSF	153022.361	9303
722287.578	4294395.678	4478	04-Nov-13	11042013-002.SSF	153023.521	9304
722287.215	4294395.572	4709	04-Nov-13	11042013-002.SSF	153024.369	9305
722287.093	4294395.525	4771	04-Nov-13	11042013-002.SSF	153025.387	9306
722287.047	4294395.503	5346	04-Nov-13	11042013-002.SSF	153026.347	9307
722287.119	4294395.454	5032	04-Nov-13	11042013-002.SSF	153027.437	9308
722287.154	4294395.492	5013	04-Nov-13	11042013-002.SSF	153028.294	9309
722287.195	4294395.592	5070	04-Nov-13	11042013-002.SSF	153029.447	9310
722287.214	4294395.775	4989	04-Nov-13	11042013-002.SSF	153030.392	9311
722287.248	4294396.017	4561	04-Nov-13	11042013-002.SSF	153031.496	9312
722287.269	4294396.205	4620	04-Nov-13	11042013-002.SSF	153032.458	9313
722287.282	4294396.402	4834	04-Nov-13	11042013-002.SSF	153033.516	9314
722287.301	4294396.564	4811	04-Nov-13	11042013-002.SSF	153034.392	9315
722287.346	4294396.691	4829	04-Nov-13	11042013-002.SSF	153035.392	9316
722287.396	4294396.759	4561	04-Nov-13	11042013-002.SSF	153036.372	9317
722287.436	4294396.843	4463	04-Nov-13	11042013-002.SSF	153037.418	9318
722287.48	4294396.916	4580	04-Nov-13	11042013-002.SSF	153038.382	9319
722287.552	4294396.969	4571	04-Nov-13	11042013-002.SSF	153039.452	9320
722287.589	4294396.999	5106	04-Nov-13	11042013-002.SSF	153040.394	9321
722287.616	4294397.03	4807	04-Nov-13	11042013-002.SSF	153041.493	9322
722287.654	4294397.032	5089	04-Nov-13	11042013-002.SSF	153042.39	9323

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.696	4294397.037	5112	04-Nov-13	11042013-002.SSF	153043.484	9324
722287.72	4294397.034	4923	04-Nov-13	11042013-002.SSF	153044.353	9325
722287.759	4294397.008	5297	04-Nov-13	11042013-002.SSF	153045.493	9326
722287.767	4294397.019	5537	04-Nov-13	11042013-002.SSF	153046.408	9327
722287.717	4294397.083	5012	04-Nov-13	11042013-002.SSF	153047.494	9328
722287.733	4294397.098	5047	04-Nov-13	11042013-002.SSF	153048.428	9329
722287.768	4294397.112	4458	04-Nov-13	11042013-002.SSF	153049.483	9330
722287.819	4294397.097	4263	04-Nov-13	11042013-002.SSF	153050.413	9331
722287.829	4294397.085	4805	04-Nov-13	11042013-002.SSF	153051.494	9332
722287.792	4294397.097	4728	04-Nov-13	11042013-002.SSF	153052.356	9333
722287.77	4294397.119	4872	04-Nov-13	11042013-002.SSF	153053.421	9334
722287.739	4294397.158	5208	04-Nov-13	11042013-002.SSF	153054.384	9335
722287.693	4294397.204	4707	04-Nov-13	11042013-002.SSF	153055.394	9336
722287.678	4294397.215	5445	04-Nov-13	11042013-002.SSF	153056.291	9337
722287.656	4294397.217	5133	04-Nov-13	11042013-002.SSF	153057.371	9338
722287.596	4294397.269	5227	04-Nov-13	11042013-002.SSF	153058.283	9339
722287.521	4294397.351	5205	04-Nov-13	11042013-002.SSF	153059.378	9340
722287.493	4294397.403	4885	04-Nov-13	11042013-002.SSF	153060.338	9341
722287.469	4294397.458	4908	04-Nov-13	11042013-002.SSF	153061.383	9342
722287.409	4294397.474	5070	04-Nov-13	11042013-002.SSF	153062.311	9343
722287.351	4294397.536	4967	04-Nov-13	11042013-002.SSF	153063.393	9344
722287.258	4294397.679	5074	04-Nov-13	11042013-002.SSF	153064.351	9345
722287.17	4294397.769	5074	04-Nov-13	11042013-002.SSF	153065.528	9346
722287.141	4294397.758	5336	04-Nov-13	11042013-002.SSF	153066.397	9347
722287.079	4294397.75	5154	04-Nov-13	11042013-002.SSF	153067.486	9348
722287.014	4294397.783	4556	04-Nov-13	11042013-002.SSF	153068.353	9349
722286.971	4294397.858	4745	04-Nov-13	11042013-002.SSF	153069.488	9350
722286.919	4294397.918	4822	04-Nov-13	11042013-002.SSF	153070.291	9351
722286.835	4294398	4542	04-Nov-13	11042013-002.SSF	153071.39	9352
722286.769	4294398.082	4760	04-Nov-13	11042013-002.SSF	153072.366	9353
722286.682	4294398.19	4747	04-Nov-13	11042013-002.SSF	153073.414	9354
722286.661	4294398.202	4950	04-Nov-13	11042013-002.SSF	153074.282	9355
722286.643	4294398.214	4922	04-Nov-13	11042013-002.SSF	153075.399	9356
722286.617	4294398.221	4531	04-Nov-13	11042013-002.SSF	153076.344	9357
722286.59	4294398.208	4086	04-Nov-13	11042013-002.SSF	153077.426	9358
722286.548	4294398.212	4526	04-Nov-13	11042013-002.SSF	153078.443	9359
722286.497	4294398.222	4818	04-Nov-13	11042013-002.SSF	153079.481	9360
722286.449	4294398.236	4660	04-Nov-13	11042013-002.SSF	153080.311	9361
722286.424	4294398.234	4353	04-Nov-13	11042013-002.SSF	153081.427	9362
722286.409	4294398.23	4706	04-Nov-13	11042013-002.SSF	153082.327	9363
722286.389	4294398.205	4717	04-Nov-13	11042013-002.SSF	153083.406	9364
722286.38	4294398.19	4416	04-Nov-13	11042013-002.SSF	153084.348	9365
722286.428	4294398.113	4704	04-Nov-13	11042013-002.SSF	153085.433	9366
722286.475	4294398.038	4708	04-Nov-13	11042013-002.SSF	153086.356	9367
722286.476	4294398.006	4298	04-Nov-13	11042013-002.SSF	153087.445	9368
722286.498	4294397.956	4503	04-Nov-13	11042013-002.SSF	153088.366	9369
722286.469	4294397.978	4797	04-Nov-13	11042013-002.SSF	153089.457	9370

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.477	4294397.972	4656	04-Nov-13	11042013-002.SSF	153090.396	9371
722286.487	4294397.947	4674	04-Nov-13	11042013-002.SSF	153091.483	9372
722286.48	4294397.927	4594	04-Nov-13	11042013-002.SSF	153092.373	9373
722286.521	4294397.854	4849	04-Nov-13	11042013-002.SSF	153093.451	9374
722286.543	4294397.849	4377	04-Nov-13	11042013-002.SSF	153094.416	9375
722286.584	4294397.851	4712	04-Nov-13	11042013-002.SSF	153095.492	9376
722286.66	4294397.8	4750	04-Nov-13	11042013-002.SSF	153096.371	9377
722286.785	4294397.713	4517	04-Nov-13	11042013-002.SSF	153097.485	9378
722286.869	4294397.626	4633	04-Nov-13	11042013-002.SSF	153098.387	9379
722286.894	4294397.6	4676	04-Nov-13	11042013-002.SSF	153099.491	9380
722286.93	4294397.583	4603	04-Nov-13	11042013-002.SSF	153100.409	9381
722286.951	4294397.576	4509	04-Nov-13	11042013-002.SSF	153101.419	9382
722286.953	4294397.565	4583	04-Nov-13	11042013-002.SSF	153102.409	9383
722286.958	4294397.565	4431	04-Nov-13	11042013-002.SSF	153103.477	9384
722286.973	4294397.587	4765	04-Nov-13	11042013-002.SSF	153104.412	9385
722286.993	4294397.602	5170	04-Nov-13	11042013-002.SSF	153105.463	9386
722286.98	4294397.641	4970	04-Nov-13	11042013-002.SSF	153106.398	9387
722286.953	4294397.705	4648	04-Nov-13	11042013-002.SSF	153107.389	9388
722286.92	4294397.779	4242	04-Nov-13	11042013-002.SSF	153108.395	9389
722286.891	4294397.838	4388	04-Nov-13	11042013-002.SSF	153109.392	9390
722286.881	4294397.874	4313	04-Nov-13	11042013-002.SSF	153110.324	9391
722286.885	4294397.865	4571	04-Nov-13	11042013-002.SSF	153111.42	9392
722286.87	4294397.893	4401	04-Nov-13	11042013-002.SSF	153112.424	9393
722286.843	4294397.972	4470	04-Nov-13	11042013-002.SSF	153113.467	9394
722286.867	4294397.973	4240	04-Nov-13	11042013-002.SSF	153114.418	9395
722286.885	4294397.967	4882	04-Nov-13	11042013-002.SSF	153115.398	9396
722286.871	4294397.982	4808	04-Nov-13	11042013-002.SSF	153116.286	9397
722286.859	4294397.983	4722	04-Nov-13	11042013-002.SSF	153117.422	9398
722286.856	4294397.994	4868	04-Nov-13	11042013-002.SSF	153118.354	9399
722286.838	4294398.026	4951	04-Nov-13	11042013-002.SSF	153119.364	9400
722286.801	4294398.078	4930	04-Nov-13	11042013-002.SSF	153120.391	9401
722286.783	4294398.117	4520	04-Nov-13	11042013-002.SSF	153121.435	9402
722286.703	4294398.196	4395	04-Nov-13	11042013-002.SSF	153122.43	9403
722286.639	4294398.235	4369	04-Nov-13	11042013-002.SSF	153123.442	9404
722286.799	4294398.119	5015	04-Nov-13	11042013-002.SSF	153124.328	9405
722287.138	4294397.89	5213	04-Nov-13	11042013-002.SSF	153125.43	9406
722287.415	4294397.708	5415	04-Nov-13	11042013-002.SSF	153126.382	9407
722287.667	4294397.575	5161	04-Nov-13	11042013-002.SSF	153127.432	9408
722287.896	4294397.466	5033	04-Nov-13	11042013-002.SSF	153128.43	9409
722288.221	4294397.367	4747	04-Nov-13	11042013-002.SSF	153130.436	9410
722288.31	4294397.317	4845	04-Nov-13	11042013-002.SSF	153131.43	9411
722288.48	4294397.244	5100	04-Nov-13	11042013-002.SSF	153133.387	9412
722288.583	4294397.235	5246	04-Nov-13	11042013-002.SSF	153134.379	9413
722288.646	4294397.209	4946	04-Nov-13	11042013-002.SSF	153135.423	9414
722288.641	4294397.14	4582	04-Nov-13	11042013-002.SSF	153136.419	9415
722288.539	4294397.041	5127	04-Nov-13	11042013-002.SSF	153137.437	9416
722288.429	4294396.931	4661	04-Nov-13	11042013-002.SSF	153138.374	9417

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722288.29	4294396.864	4519	04-Nov-13	11042013-002.SSF	153139.448	9418
722288.179	4294396.854	4822	04-Nov-13	11042013-002.SSF	153140.292	9419
722288.081	4294396.794	4527	04-Nov-13	11042013-002.SSF	153141.384	9420
722288.011	4294396.712	4534	04-Nov-13	11042013-002.SSF	153142.309	9421
722287.989	4294396.628	4777	04-Nov-13	11042013-002.SSF	153143.387	9422
722287.979	4294396.555	4892	04-Nov-13	11042013-002.SSF	153144.359	9423
722287.982	4294396.519	4544	04-Nov-13	11042013-002.SSF	153145.492	9424
722287.984	4294396.518	4581	04-Nov-13	11042013-002.SSF	153146.393	9425
722287.965	4294396.511	4939	04-Nov-13	11042013-002.SSF	153147.451	9426
722287.936	4294396.511	5253	04-Nov-13	11042013-002.SSF	153148.372	9427
722287.917	4294396.529	5310	04-Nov-13	11042013-002.SSF	153149.478	9428
722287.918	4294396.515	5132	04-Nov-13	11042013-002.SSF	153150.35	9429
722287.921	4294396.503	4686	04-Nov-13	11042013-002.SSF	153151.427	9430
722287.902	4294396.521	4833	04-Nov-13	11042013-002.SSF	153152.324	9431
722287.819	4294396.573	4946	04-Nov-13	11042013-002.SSF	153153.47	9432
722287.784	4294396.582	4680	04-Nov-13	11042013-002.SSF	153154.327	9433
722287.742	4294396.621	4995	04-Nov-13	11042013-002.SSF	153155.398	9434
722287.692	4294396.693	4714	04-Nov-13	11042013-002.SSF	153156.366	9435
722287.642	4294396.788	4677	04-Nov-13	11042013-002.SSF	153157.43	9436
722287.62	4294396.843	5158	04-Nov-13	11042013-002.SSF	153158.312	9437
722287.57	4294396.971	5481	04-Nov-13	11042013-002.SSF	153159.403	9438
722287.575	4294397.043	5175	04-Nov-13	11042013-002.SSF	153160.305	9439
722287.518	4294397.073	4831	04-Nov-13	11042013-002.SSF	153161.388	9440
722287.413	4294397.088	4915	04-Nov-13	11042013-002.SSF	153162.397	9441
722287.317	4294397.076	4504	04-Nov-13	11042013-002.SSF	153163.475	9442
722287.299	4294397.06	4356	04-Nov-13	11042013-002.SSF	153164.308	9443
722287.319	4294397.021	4453	04-Nov-13	11042013-002.SSF	153165.457	9444
722287.343	4294396.991	4890	04-Nov-13	11042013-002.SSF	153166.315	9445
722287.383	4294396.972	5060	04-Nov-13	11042013-002.SSF	153167.371	9446
722287.436	4294396.921	4901	04-Nov-13	11042013-002.SSF	153168.304	9447
722287.484	4294396.869	5007	04-Nov-13	11042013-002.SSF	153169.387	9448
722287.523	4294396.809	4781	04-Nov-13	11042013-002.SSF	153170.405	9449
722287.558	4294396.742	4317	04-Nov-13	11042013-002.SSF	153171.48	9450
722287.566	4294396.732	4783	04-Nov-13	11042013-002.SSF	153172.345	9451
722287.583	4294396.765	5180	04-Nov-13	11042013-002.SSF	153173.469	9452
722287.608	4294396.798	4534	04-Nov-13	11042013-002.SSF	153174.421	9453
722287.68	4294396.811	4567	04-Nov-13	11042013-002.SSF	153175.398	9454
722287.813	4294396.821	4429	04-Nov-13	11042013-002.SSF	153176.346	9455
722287.903	4294396.859	4599	04-Nov-13	11042013-002.SSF	153177.432	9456
722287.942	4294396.919	4852	04-Nov-13	11042013-002.SSF	153178.38	9457
722287.953	4294396.975	4776	04-Nov-13	11042013-002.SSF	153179.424	9458
722287.954	4294397.015	4892	04-Nov-13	11042013-002.SSF	153180.39	9459
722287.966	4294397.063	4746	04-Nov-13	11042013-002.SSF	153181.477	9460
722287.983	4294397.096	4897	04-Nov-13	11042013-002.SSF	153182.331	9461
722287.992	4294397.127	4750	04-Nov-13	11042013-002.SSF	153183.404	9462
722287.993	4294397.113	4861	04-Nov-13	11042013-002.SSF	153184.407	9463
722287.977	4294397.106	4564	04-Nov-13	11042013-002.SSF	153185.401	9464

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722287.977	4294397.111	4277	04-Nov-13	11042013-002.SSF	153186.399	9465
722287.972	4294397.154	4296	04-Nov-13	11042013-002.SSF	153187.476	9466
722287.968	4294397.183	4696	04-Nov-13	11042013-002.SSF	153188.327	9467
722287.958	4294397.223	4899	04-Nov-13	11042013-002.SSF	153189.42	9468
722287.969	4294397.242	4878	04-Nov-13	11042013-002.SSF	153190.4	9469
722287.973	4294397.255	4574	04-Nov-13	11042013-002.SSF	153191.468	9470
722287.96	4294397.248	4725	04-Nov-13	11042013-002.SSF	153192.377	9471
722287.919	4294397.259	4810	04-Nov-13	11042013-002.SSF	153193.42	9472
722287.903	4294397.267	5046	04-Nov-13	11042013-002.SSF	153194.386	9473
722287.915	4294397.26	4781	04-Nov-13	11042013-002.SSF	153195.393	9474
722287.941	4294397.237	4414	04-Nov-13	11042013-002.SSF	153196.273	9475
722287.942	4294397.23	4868	04-Nov-13	11042013-002.SSF	153197.35	9476
722287.944	4294397.2	4905	04-Nov-13	11042013-002.SSF	153198.304	9477
722287.925	4294397.21	4987	04-Nov-13	11042013-002.SSF	153199.355	9478
722287.927	4294397.205	4710	04-Nov-13	11042013-002.SSF	153200.287	9479
722287.931	4294397.205	5027	04-Nov-13	11042013-002.SSF	153201.332	9480
722287.921	4294397.233	4342	04-Nov-13	11042013-002.SSF	153202.304	9481
722287.916	4294397.369	4962	04-Nov-13	11042013-002.SSF	153203.402	9482
722287.907	4294397.615	4996	04-Nov-13	11042013-002.SSF	153204.26	9483
722287.897	4294397.706	4678	04-Nov-13	11042013-002.SSF	153205.399	9484
722287.903	4294397.649	4791	04-Nov-13	11042013-002.SSF	153206.369	9485
722288.014	4294397.639	4907	04-Nov-13	11042013-002.SSF	153207.409	9486
722288.099	4294397.664	5318	04-Nov-13	11042013-002.SSF	153208.297	9487
722288.221	4294397.62	5429	04-Nov-13	11042013-002.SSF	153209.462	9488
722288.305	4294397.546	5303	04-Nov-13	11042013-002.SSF	153210.299	9489
722288.437	4294397.414	5428	04-Nov-13	11042013-002.SSF	153211.407	9490
722288.557	4294397.292	5333	04-Nov-13	11042013-002.SSF	153212.299	9491
722288.653	4294397.207	5265	04-Nov-13	11042013-002.SSF	153213.396	9492
722288.681	4294397.196	5136	04-Nov-13	11042013-002.SSF	153214.291	9493
722288.697	4294397.125	5529	04-Nov-13	11042013-002.SSF	153215.402	9494
722288.69	4294397.137	4730	04-Nov-13	11042013-002.SSF	153216.263	9495
722288.729	4294397.064	4828	04-Nov-13	11042013-002.SSF	153217.331	9496
722288.767	4294396.969	4516	04-Nov-13	11042013-002.SSF	153218.297	9497
722288.798	4294396.887	4782	04-Nov-13	11042013-002.SSF	153219.366	9498
722288.823	4294396.855	4977	04-Nov-13	11042013-002.SSF	153220.328	9499
722288.824	4294396.883	5072	04-Nov-13	11042013-002.SSF	153221.411	9500
722288.833	4294396.867	5073	04-Nov-13	11042013-002.SSF	153222.342	9501
722288.856	4294396.751	4788	04-Nov-13	11042013-002.SSF	153223.458	9502
722288.878	4294396.645	4853	04-Nov-13	11042013-002.SSF	153224.335	9503
722288.876	4294396.509	5017	04-Nov-13	11042013-002.SSF	153225.422	9504
722288.874	4294396.41	4742	04-Nov-13	11042013-002.SSF	153226.313	9505
722288.858	4294396.206	5007	04-Nov-13	11042013-002.SSF	153227.423	9506
722288.842	4294395.995	5464	04-Nov-13	11042013-002.SSF	153228.265	9507
722288.918	4294395.796	4918	04-Nov-13	11042013-002.SSF	153229.383	9508
722288.977	4294395.672	5099	04-Nov-13	11042013-002.SSF	153230.35	9509
722288.947	4294395.801	4834	04-Nov-13	11042013-002.SSF	153231.383	9510
722288.89	4294395.973	4519	04-Nov-13	11042013-002.SSF	153232.361	9511

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722288.877	4294396.113	5062	04-Nov-13	11042013-002.SSF	153233.45	9512
722288.929	4294396.225	5562	04-Nov-13	11042013-002.SSF	153234.35	9513
722288.977	4294396.201	5281	04-Nov-13	11042013-002.SSF	153235.411	9514
722288.916	4294396.217	4920	04-Nov-13	11042013-002.SSF	153236.339	9515
722288.897	4294396.21	5077	04-Nov-13	11042013-002.SSF	153237.336	9516
722288.895	4294396.194	4483	04-Nov-13	11042013-002.SSF	153238.343	9517
722288.911	4294396.081	4652	04-Nov-13	11042013-002.SSF	153239.41	9518
722288.907	4294396.017	4664	04-Nov-13	11042013-002.SSF	153240.285	9519
722288.845	4294396.001	4348	04-Nov-13	11042013-002.SSF	153241.392	9520
722288.774	4294395.84	4208	04-Nov-13	11042013-002.SSF	153242.383	9521
722288.69	4294395.584	4572	04-Nov-13	11042013-002.SSF	153243.441	9522
722288.652	4294395.475	4792	04-Nov-13	11042013-002.SSF	153244.396	9523
722288.645	4294395.438	4855	04-Nov-13	11042013-002.SSF	153245.366	9524
722288.646	4294395.392	5506	04-Nov-13	11042013-002.SSF	153246.334	9525
722288.659	4294395.307	4987	04-Nov-13	11042013-002.SSF	153247.319	9526
722288.671	4294395.269	5010	04-Nov-13	11042013-002.SSF	153248.286	9527
722288.637	4294395.317	4708	04-Nov-13	11042013-002.SSF	153249.323	9528
722288.596	4294395.364	4831	04-Nov-13	11042013-002.SSF	153250.308	9529
722288.547	4294395.424	5020	04-Nov-13	11042013-002.SSF	153251.357	9530
722288.522	4294395.443	4908	04-Nov-13	11042013-002.SSF	153252.327	9531
722288.575	4294395.45	5003	04-Nov-13	11042013-002.SSF	153253.427	9532
722288.67	4294395.458	4697	04-Nov-13	11042013-002.SSF	153254.322	9533
722288.754	4294395.482	5312	04-Nov-13	11042013-002.SSF	153255.401	9534
722288.835	4294395.492	5050	04-Nov-13	11042013-002.SSF	153256.33	9535
722288.897	4294395.498	5106	04-Nov-13	11042013-002.SSF	153257.4	9536
722288.893	4294395.571	4762	04-Nov-13	11042013-002.SSF	153258.259	9537
722288.887	4294395.613	4598	04-Nov-13	11042013-002.SSF	153259.362	9538
722288.923	4294395.603	4806	04-Nov-13	11042013-002.SSF	153260.297	9539
722289.017	4294395.494	4953	04-Nov-13	11042013-002.SSF	153261.434	9540
722289.104	4294395.379	4699	04-Nov-13	11042013-002.SSF	153262.283	9541
722289.163	4294395.301	4848	04-Nov-13	11042013-002.SSF	153263.445	9542
722289.214	4294395.259	4782	04-Nov-13	11042013-002.SSF	153264.312	9543
722289.262	4294395.226	4647	04-Nov-13	11042013-002.SSF	153265.401	9544
722289.281	4294395.203	4946	04-Nov-13	11042013-002.SSF	153266.287	9545
722289.307	4294395.188	4342	04-Nov-13	11042013-002.SSF	153267.346	9546
722289.3	4294395.235	4617	04-Nov-13	11042013-002.SSF	153268.246	9547
722289.293	4294395.329	4690	04-Nov-13	11042013-002.SSF	153269.42	9548
722289.307	4294395.372	5008	04-Nov-13	11042013-002.SSF	153270.294	9549
722289.308	4294395.429	5014	04-Nov-13	11042013-002.SSF	153271.417	9550
722289.308	4294395.458	5081	04-Nov-13	11042013-002.SSF	153272.275	9551
722289.3	4294395.515	4652	04-Nov-13	11042013-002.SSF	153273.389	9552
722289.308	4294395.515	5212	04-Nov-13	11042013-002.SSF	153274.274	9553
722289.343	4294395.486	5106	04-Nov-13	11042013-002.SSF	153275.395	9554
722289.383	4294395.475	5235	04-Nov-13	11042013-002.SSF	153276.294	9555
722289.448	4294395.435	5247	04-Nov-13	11042013-002.SSF	153277.447	9556
722289.461	4294395.44	5254	04-Nov-13	11042013-002.SSF	153278.319	9557
722289.454	4294395.423	4822	04-Nov-13	11042013-002.SSF	153279.389	9558

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722289.454	4294395.427	4992	04-Nov-13	11042013-002.SSF	153280.311	9559
722289.474	4294395.454	4706	04-Nov-13	11042013-002.SSF	153281.328	9560
722289.465	4294395.476	5002	04-Nov-13	11042013-002.SSF	153282.238	9561
722289.432	4294395.574	4943	04-Nov-13	11042013-002.SSF	153283.34	9562
722289.362	4294395.755	4790	04-Nov-13	11042013-002.SSF	153284.237	9563
722289.24	4294395.967	4810	04-Nov-13	11042013-002.SSF	153285.379	9564
722289.115	4294396.142	4550	04-Nov-13	11042013-002.SSF	153286.259	9565
722288.984	4294396.315	4772	04-Nov-13	11042013-002.SSF	153287.393	9566
722288.859	4294396.477	4927	04-Nov-13	11042013-002.SSF	153288.269	9567
722288.755	4294396.596	5058	04-Nov-13	11042013-002.SSF	153289.319	9568
722288.648	4294396.713	5050	04-Nov-13	11042013-002.SSF	153290.272	9569
722288.652	4294396.732	5421	04-Nov-13	11042013-002.SSF	153291.419	9570
722288.716	4294396.681	5464	04-Nov-13	11042013-002.SSF	153292.303	9571
722288.732	4294396.663	5361	04-Nov-13	11042013-002.SSF	153293.401	9572
722288.714	4294396.672	4785	04-Nov-13	11042013-002.SSF	153294.303	9573
722288.514	4294396.824	4732	04-Nov-13	11042013-002.SSF	153295.373	9574
722288.426	4294396.857	4866	04-Nov-13	11042013-002.SSF	153296.253	9575
722288.284	4294396.921	5115	04-Nov-13	11042013-002.SSF	153297.388	9576
722288.179	4294396.966	4759	04-Nov-13	11042013-002.SSF	153298.327	9577
722288.108	4294396.984	5062	04-Nov-13	11042013-002.SSF	153299.359	9578
722288.192	4294396.93	4865	04-Nov-13	11042013-002.SSF	153300.294	9579
722288.206	4294396.953	4889	04-Nov-13	11042013-002.SSF	153301.278	9580
722288.262	4294396.927	5105	04-Nov-13	11042013-002.SSF	153302.243	9581
722288.404	4294396.802	4634	04-Nov-13	11042013-002.SSF	153303.295	9582
722288.48	4294396.762	4481	04-Nov-13	11042013-002.SSF	153304.323	9583
722288.513	4294396.7	4290	04-Nov-13	11042013-002.SSF	153305.321	9584
722288.515	4294396.614	4761	04-Nov-13	11042013-002.SSF	153306.283	9585
722288.394	4294396.84	4800	04-Nov-13	11042013-002.SSF	153307.323	9586
722288.397	4294396.95	4770	04-Nov-13	11042013-002.SSF	153308.301	9587
722288.428	4294397.099	4888	04-Nov-13	11042013-002.SSF	153309.376	9588
722288.455	4294397.207	4879	04-Nov-13	11042013-002.SSF	153310.292	9589
722288.447	4294397.279	5100	04-Nov-13	11042013-002.SSF	153311.344	9590
722288.467	4294397.505	4983	04-Nov-13	11042013-002.SSF	153312.345	9591
722288.514	4294397.558	4978	04-Nov-13	11042013-002.SSF	153313.357	9592
722288.528	4294397.534	5065	04-Nov-13	11042013-002.SSF	153314.292	9593
722288.514	4294397.475	4904	04-Nov-13	11042013-002.SSF	153315.399	9594
722288.517	4294397.475	5353	04-Nov-13	11042013-002.SSF	153316.288	9595
722288.53	4294397.6	5396	04-Nov-13	11042013-002.SSF	153317.367	9596
722288.529	4294397.682	5555	04-Nov-13	11042013-002.SSF	153318.284	9597
722288.522	4294397.763	5165	04-Nov-13	11042013-002.SSF	153319.34	9598
722288.53	4294397.762	5050	04-Nov-13	11042013-002.SSF	153320.294	9599
722288.527	4294397.792	4903	04-Nov-13	11042013-002.SSF	153321.317	9600
722288.511	4294397.809	4910	04-Nov-13	11042013-002.SSF	153322.311	9601
722288.513	4294397.796	4862	04-Nov-13	11042013-002.SSF	153323.301	9602
722288.515	4294397.806	4475	04-Nov-13	11042013-002.SSF	153324.263	9603
722288.515	4294397.79	4452	04-Nov-13	11042013-002.SSF	153325.399	9604
722288.481	4294397.807	5167	04-Nov-13	11042013-002.SSF	153326.365	9605

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722288.431	4294397.839	4710	04-Nov-13	11042013-002.SSF	153328.306	9607
722288.401	4294397.885	4719	04-Nov-13	11042013-002.SSF	153329.364	9608
722288.389	4294397.871	4552	04-Nov-13	11042013-002.SSF	153330.295	9609
722288.351	4294397.933	4450	04-Nov-13	11042013-002.SSF	153331.347	9610
722288.311	4294397.978	4708	04-Nov-13	11042013-002.SSF	153332.269	9611
722288.286	4294398.004	5018	04-Nov-13	11042013-002.SSF	153333.369	9612
722288.276	4294398.003	4555	04-Nov-13	11042013-002.SSF	153334.27	9613
722288.244	4294398.041	4534	04-Nov-13	11042013-002.SSF	153335.405	9614
722288.221	4294398.068	4905	04-Nov-13	11042013-002.SSF	153336.252	9615
722288.226	4294398.112	4979	04-Nov-13	11042013-002.SSF	153337.362	9616
722288.233	4294398.231	4623	04-Nov-13	11042013-002.SSF	153338.315	9617
722288.248	4294398.319	4955	04-Nov-13	11042013-002.SSF	153339.376	9618
722288.249	4294398.407	4820	04-Nov-13	11042013-002.SSF	153340.253	9619
722288.253	4294398.489	4721	04-Nov-13	11042013-002.SSF	153341.277	9620
722288.256	4294398.583	4868	04-Nov-13	11042013-002.SSF	153342.255	9621
722288.267	4294398.604	4770	04-Nov-13	11042013-002.SSF	153343.316	9622
722288.257	4294398.685	4693	04-Nov-13	11042013-002.SSF	153344.288	9623
722288.261	4294398.706	4897	04-Nov-13	11042013-002.SSF	153345.396	9624
722288.248	4294398.745	4840	04-Nov-13	11042013-002.SSF	153346.327	9625
722288.232	4294398.798	5017	04-Nov-13	11042013-002.SSF	153347.32	9626
722288.232	4294398.76	5072	04-Nov-13	11042013-002.SSF	153348.274	9627
722288.192	4294398.638	4660	04-Nov-13	11042013-002.SSF	153349.4	9628
722288.159	4294398.68	4826	04-Nov-13	11042013-002.SSF	153350.256	9629
722288.114	4294398.728	4755	04-Nov-13	11042013-002.SSF	153351.276	9630
722288.078	4294398.7	4879	04-Nov-13	11042013-002.SSF	153352.273	9631
722288.064	4294398.602	4905	04-Nov-13	11042013-002.SSF	153353.272	9632
722288.045	4294398.524	4911	04-Nov-13	11042013-002.SSF	153354.272	9633
722288.061	4294398.421	5305	04-Nov-13	11042013-002.SSF	153355.299	9634
722288.093	4294398.342	4971	04-Nov-13	11042013-002.SSF	153356.304	9635
722288.138	4294398.304	5271	04-Nov-13	11042013-002.SSF	153357.299	9636
722288.24	4294398.216	4517	04-Nov-13	11042013-002.SSF	153358.266	9637
722288.337	4294398.115	4611	04-Nov-13	11042013-002.SSF	153359.372	9638
722288.304	4294398.151	4889	04-Nov-13	11042013-002.SSF	153360.26	9639
722288.286	4294398.196	5607	04-Nov-13	11042013-002.SSF	153361.336	9640
722288.33	4294398.194	4691	04-Nov-13	11042013-002.SSF	153362.266	9641
722288.457	4294398.128	4791	04-Nov-13	11042013-002.SSF	153363.32	9642
722288.637	4294397.995	4772	04-Nov-13	11042013-002.SSF	153364.369	9643
722288.74	4294397.945	5272	04-Nov-13	11042013-002.SSF	153365.325	9644
722288.822	4294397.894	4960	04-Nov-13	11042013-002.SSF	153366.262	9645
722288.954	4294397.84	4740	04-Nov-13	11042013-002.SSF	153367.359	9646
722289.116	4294397.805	4578	04-Nov-13	11042013-002.SSF	153368.229	9647
722289.238	4294397.845	4795	04-Nov-13	11042013-002.SSF	153369.362	9648
722289.304	4294397.915	4535	04-Nov-13	11042013-002.SSF	153370.332	9649
722289.314	4294397.908	4433	04-Nov-13	11042013-002.SSF	153371.373	9650
722289.298	4294397.886	4413	04-Nov-13	11042013-002.SSF	153372.357	9651
722289.271	4294397.858	4800	04-Nov-13	11042013-002.SSF	153373.339	9652

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722289.264	4294397.883	4712	04-Nov-13	11042013-002.SSF	153375.317	9654
722289.199	4294397.804	5148	04-Nov-13	11042013-002.SSF	153376.343	9655
722289.122	4294397.782	5048	04-Nov-13	11042013-002.SSF	153377.341	9656
722289.152	4294397.772	4572	04-Nov-13	11042013-002.SSF	153378.175	9657
722289.17	4294397.71	4814	04-Nov-13	11042013-002.SSF	153379.283	9658
722289.179	4294397.539	4770	04-Nov-13	11042013-002.SSF	153380.271	9659
722289.187	4294397.335	5083	04-Nov-13	11042013-002.SSF	153381.307	9660
722289.188	4294397.233	5379	04-Nov-13	11042013-002.SSF	153382.192	9661
722289.214	4294397.099	4803	04-Nov-13	11042013-002.SSF	153383.348	9662
722289.238	4294397.031	4922	04-Nov-13	11042013-002.SSF	153384.216	9663
722289.27	4294396.903	5198	04-Nov-13	11042013-002.SSF	153385.387	9664
722289.29	4294396.764	5091	04-Nov-13	11042013-002.SSF	153386.257	9665
722289.307	4294396.731	5219	04-Nov-13	11042013-002.SSF	153387.345	9666
722289.338	4294396.675	5058	04-Nov-13	11042013-002.SSF	153388.223	9667
722289.376	4294396.59	4997	04-Nov-13	11042013-002.SSF	153389.281	9668
722289.406	4294396.53	4963	04-Nov-13	11042013-002.SSF	153390.287	9669
722289.421	4294396.501	5027	04-Nov-13	11042013-002.SSF	153391.305	9670
722289.435	4294396.441	4980	04-Nov-13	11042013-002.SSF	153392.253	9671
722289.465	4294396.361	5433	04-Nov-13	11042013-002.SSF	153393.318	9672
722289.491	4294396.292	5246	04-Nov-13	11042013-002.SSF	153394.252	9673
722289.499	4294396.305	4961	04-Nov-13	11042013-002.SSF	153395.279	9674
722289.497	4294396.295	5475	04-Nov-13	11042013-002.SSF	153396.246	9675
722289.488	4294396.272	4737	04-Nov-13	11042013-002.SSF	153397.295	9676
722289.484	4294396.242	4997	04-Nov-13	11042013-002.SSF	153398.242	9677
722289.471	4294396.164	4851	04-Nov-13	11042013-002.SSF	153399.307	9678
722289.457	4294396.1	4866	04-Nov-13	11042013-002.SSF	153400.289	9679
722289.443	4294396.024	5047	04-Nov-13	11042013-002.SSF	153401.334	9680
722289.419	4294396.012	5239	04-Nov-13	11042013-002.SSF	153402.302	9681
722289.403	4294396.011	5369	04-Nov-13	11042013-002.SSF	153403.392	9682
722289.392	4294395.981	5202	04-Nov-13	11042013-002.SSF	153404.285	9683
722289.392	4294396.039	5101	04-Nov-13	11042013-002.SSF	153405.393	9684
722289.422	4294396.018	5037	04-Nov-13	11042013-002.SSF	153406.314	9685
722289.448	4294395.979	4933	04-Nov-13	11042013-002.SSF	153407.292	9686
722289.442	4294395.974	4927	04-Nov-13	11042013-002.SSF	153408.285	9687
722289.438	4294395.923	4774	04-Nov-13	11042013-002.SSF	153409.329	9688
722289.43	4294395.857	4650	04-Nov-13	11042013-002.SSF	153410.279	9689
722289.397	4294395.731	4783	04-Nov-13	11042013-002.SSF	153411.367	9690
722289.364	4294395.685	4888	04-Nov-13	11042013-002.SSF	153412.311	9691
722289.41	4294395.637	5194	04-Nov-13	11042013-002.SSF	153413.325	9692
722289.558	4294395.605	4519	04-Nov-13	11042013-002.SSF	153414.231	9693
722289.591	4294395.525	4942	04-Nov-13	11042013-002.SSF	153415.279	9694
722289.491	4294395.501	4542	04-Nov-13	11042013-002.SSF	153416.204	9695
722289.451	4294395.445	4572	04-Nov-13	11042013-002.SSF	153417.262	9696
722289.474	4294395.322	4679	04-Nov-13	11042013-002.SSF	153418.311	9697
722289.479	4294395.221	4770	04-Nov-13	11042013-002.SSF	153419.304	9698
722289.452	4294395.187	4700	04-Nov-13	11042013-002.SSF	153420.283	9699

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722289.411	4294395.126	5178	04-Nov-13	11042013-002.SSF	153421.394	9700
722289.381	4294395.063	5388	04-Nov-13	11042013-002.SSF	153422.24	9701
722289.338	4294395.163	5498	04-Nov-13	11042013-002.SSF	153423.375	9702
722289.338	4294395.169	5320	04-Nov-13	11042013-002.SSF	153424.231	9703
722289.34	4294395.155	5010	04-Nov-13	11042013-002.SSF	153425.305	9704
722289.336	4294395.139	4970	04-Nov-13	11042013-002.SSF	153426.256	9705
722289.331	4294395.11	4326	04-Nov-13	11042013-002.SSF	153427.306	9706
722289.333	4294395.045	4473	04-Nov-13	11042013-002.SSF	153428.267	9707
722289.345	4294394.935	4586	04-Nov-13	11042013-002.SSF	153429.329	9708
722289.347	4294394.872	4830	04-Nov-13	11042013-002.SSF	153430.293	9709
722289.336	4294394.952	4794	04-Nov-13	11042013-002.SSF	153431.295	9710
722289.342	4294394.89	5284	04-Nov-13	11042013-002.SSF	153432.289	9711
722289.333	4294394.919	4794	04-Nov-13	11042013-002.SSF	153433.345	9712
722289.335	4294394.856	4662	04-Nov-13	11042013-002.SSF	153434.305	9713
722289.321	4294394.84	4812	04-Nov-13	11042013-002.SSF	153435.303	9714
722289.316	4294394.876	4792	04-Nov-13	11042013-002.SSF	153436.315	9715
722289.328	4294394.897	4998	04-Nov-13	11042013-002.SSF	153437.368	9716
722289.335	4294394.965	5151	04-Nov-13	11042013-002.SSF	153438.357	9717
722289.332	4294395.071	5027	04-Nov-13	11042013-002.SSF	153439.31	9718
722289.323	4294395.125	5040	04-Nov-13	11042013-002.SSF	153440.291	9719
722289.32	4294395.191	5182	04-Nov-13	11042013-002.SSF	153441.354	9720
722289.344	4294395.258	4827	04-Nov-13	11042013-002.SSF	153442.312	9721
722289.384	4294395.237	4890	04-Nov-13	11042013-002.SSF	153443.286	9722
722289.397	4294395.223	5436	04-Nov-13	11042013-002.SSF	153444.258	9723
722289.403	4294395.291	5532	04-Nov-13	11042013-002.SSF	153445.297	9724
722289.404	4294395.385	5302	04-Nov-13	11042013-002.SSF	153446.261	9725
722289.376	4294395.353	4872	04-Nov-13	11042013-002.SSF	153447.332	9726
722289.37	4294395.283	4795	04-Nov-13	11042013-002.SSF	153448.29	9727
722289.359	4294395.26	4737	04-Nov-13	11042013-002.SSF	153449.272	9728
722289.332	4294395.277	4607	04-Nov-13	11042013-002.SSF	153450.257	9729
722289.322	4294395.32	4991	04-Nov-13	11042013-002.SSF	153451.352	9730
722289.317	4294395.372	4900	04-Nov-13	11042013-002.SSF	153452.279	9731
722289.307	4294395.459	5096	04-Nov-13	11042013-002.SSF	153453.292	9732
722289.302	4294395.525	4936	04-Nov-13	11042013-002.SSF	153454.307	9733
722289.241	4294395.906	4768	04-Nov-13	11042013-002.SSF	153456.245	9734
722289.227	4294395.969	4744	04-Nov-13	11042013-002.SSF	153457.246	9735
722289.227	4294395.928	4821	04-Nov-13	11042013-002.SSF	153458.248	9736
722289.224	4294395.941	5217	04-Nov-13	11042013-002.SSF	153459.25	9737
722289.226	4294396.075	5244	04-Nov-13	11042013-002.SSF	153460.301	9738
722289.229	4294396.157	5155	04-Nov-13	11042013-002.SSF	153461.367	9739
722289.244	4294396.296	4909	04-Nov-13	11042013-002.SSF	153462.338	9740
722289.25	4294396.466	4681	04-Nov-13	11042013-002.SSF	153463.316	9741
722289.256	4294396.579	4560	04-Nov-13	11042013-002.SSF	153464.323	9742
722289.281	4294396.551	4943	04-Nov-13	11042013-002.SSF	153465.303	9743
722289.322	4294396.496	4340	04-Nov-13	11042013-002.SSF	153466.264	9744
722289.331	4294396.376	4953	04-Nov-13	11042013-002.SSF	153467.351	9745
722289.274	4294396.286	4879	04-Nov-13	11042013-002.SSF	153468.272	9746

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722289.196	4294396.363	4882	04-Nov-13	11042013-002.SSF	153469.334	9747
722289.179	4294396.282	4988	04-Nov-13	11042013-002.SSF	153470.258	9748
722289.115	4294396.199	4958	04-Nov-13	11042013-002.SSF	153471.351	9749
722289.062	4294396.182	5166	04-Nov-13	11042013-002.SSF	153472.226	9750
722289.036	4294396.133	5073	04-Nov-13	11042013-002.SSF	153473.3	9751
722289.009	4294396.044	4976	04-Nov-13	11042013-002.SSF	153474.289	9752
722288.998	4294395.974	4599	04-Nov-13	11042013-002.SSF	153475.362	9753
722289.01	4294395.948	4739	04-Nov-13	11042013-002.SSF	153476.184	9754
722289.01	4294395.975	4976	04-Nov-13	11042013-002.SSF	153477.354	9755
722289.009	4294396.004	4561	04-Nov-13	11042013-002.SSF	153478.245	9756
722289.015	4294395.885	4988	04-Nov-13	11042013-002.SSF	153479.309	9757
722289.016	4294395.837	4643	04-Nov-13	11042013-002.SSF	153480.328	9758
722289.041	4294395.867	4539	04-Nov-13	11042013-002.SSF	153481.305	9759
722289.061	4294395.953	4713	04-Nov-13	11042013-002.SSF	153482.283	9760
722289.08	4294395.936	4376	04-Nov-13	11042013-002.SSF	153483.352	9761
722289.112	4294395.828	4951	04-Nov-13	11042013-002.SSF	153484.377	9762
722289.117	4294395.757	4705	04-Nov-13	11042013-002.SSF	153485.316	9763
722289.086	4294395.838	4806	04-Nov-13	11042013-002.SSF	153486.154	9764
722289.085	4294395.849	5238	04-Nov-13	11042013-002.SSF	153487.279	9765
722289.103	4294395.831	5212	04-Nov-13	11042013-002.SSF	153488.209	9766
722289.066	4294396.115	4881	04-Nov-13	11042013-002.SSF	153489.308	9767
722289.037	4294396.215	4831	04-Nov-13	11042013-002.SSF	153490.204	9768
722288.956	4294396.66	5077	04-Nov-13	11042013-002.SSF	153491.349	9769
722288.944	4294396.915	4753	04-Nov-13	11042013-002.SSF	153492.281	9770
722288.957	4294397.022	4811	04-Nov-13	11042013-002.SSF	153493.316	9771
722288.945	4294397.149	5009	04-Nov-13	11042013-002.SSF	153494.228	9772
722288.939	4294397.145	4790	04-Nov-13	11042013-002.SSF	153495.336	9773
722288.943	4294397.123	4727	04-Nov-13	11042013-002.SSF	153496.35	9774
722288.953	4294397.108	4788	04-Nov-13	11042013-002.SSF	153497.257	9775
722288.967	4294397.065	4808	04-Nov-13	11042013-002.SSF	153498.285	9776
722288.985	4294397.001	4812	04-Nov-13	11042013-002.SSF	153499.32	9777
722289.002	4294396.981	4679	04-Nov-13	11042013-002.SSF	153500.206	9778
722288.974	4294397.268	4439	04-Nov-13	11042013-002.SSF	153501.302	9779
722288.974	4294397.333	4642	04-Nov-13	11042013-002.SSF	153502.294	9780
722288.958	4294397.404	4913	04-Nov-13	11042013-002.SSF	153503.31	9781
722288.934	4294397.436	5186	04-Nov-13	11042013-002.SSF	153504.284	9782
722288.905	4294397.424	4942	04-Nov-13	11042013-002.SSF	153505.259	9783
722288.88	4294397.403	4895	04-Nov-13	11042013-002.SSF	153506.247	9784
722288.868	4294397.426	4816	04-Nov-13	11042013-002.SSF	153507.311	9785
722288.908	4294397.393	4449	04-Nov-13	11042013-002.SSF	153508.216	9786
722288.994	4294397.217	4835	04-Nov-13	11042013-002.SSF	153509.278	9787
722288.761	4294396.847	4827	04-Nov-13	11042013-002.SSF	153510.143	9788
722288.242	4294396.046	5047	04-Nov-13	11042013-002.SSF	153511.257	9789
722287.678	4294395.535	5599	04-Nov-13	11042013-002.SSF	153512.251	9790
722287.046	4294395.33	5317	04-Nov-13	11042013-002.SSF	153513.246	9791
722286.722	4294395.81	5128	04-Nov-13	11042013-002.SSF	153514.231	9792
722286.461	4294396.184	5262	04-Nov-13	11042013-002.SSF	153515.337	9793

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722286.43	4294396.352	5412	04-Nov-13	11042013-002.SSF	153516.195	9794
722286.43	4294396.376	5609	04-Nov-13	11042013-002.SSF	153517.29	9795
722286.504	4294396.351	5757	04-Nov-13	11042013-002.SSF	153518.202	9796
722286.928	4294396.148	5518	04-Nov-13	11042013-002.SSF	153519.222	9797
722287.176	4294395.996	4852	04-Nov-13	11042013-002.SSF	153520.296	9798
722287.093	4294396.053	4184	04-Nov-13	11042013-002.SSF	153521.408	9799
722286.836	4294396.101	3906	04-Nov-13	11042013-002.SSF	153522.288	9800
722286.502	4294396.176	3667	04-Nov-13	11042013-002.SSF	153523.287	9801
722286.454	4294396.349	4552	04-Nov-13	11042013-002.SSF	153524.293	9802
722286.497	4294396.268	4541	04-Nov-13	11042013-002.SSF	153525.311	9803
722286.412	4294395.898	4264	04-Nov-13	11042013-002.SSF	153526.183	9804
722286.76	4294395.171	4393	04-Nov-13	11042013-002.SSF	153527.19	9805
722287.091	4294394.784	4428	04-Nov-13	11042013-002.SSF	153528.17	9806
722287.263	4294394.543	4231	04-Nov-13	11042013-002.SSF	153529.219	9807
722287.298	4294394.596	4180	04-Nov-13	11042013-002.SSF	153530.241	9808
722287.358	4294394.577	3971	04-Nov-13	11042013-002.SSF	153531.267	9809
722287.126	4294394.718	3936	04-Nov-13	11042013-002.SSF	153532.223	9810
722286.951	4294394.844	3954	04-Nov-13	11042013-002.SSF	153533.29	9811
722286.853	4294394.923	4376	04-Nov-13	11042013-002.SSF	153534.249	9812
722286.769	4294394.992	4599	04-Nov-13	11042013-002.SSF	153535.295	9813
722286.727	4294395.072	3809	04-Nov-13	11042013-002.SSF	153536.194	9814
722286.98	4294395.229	4003	04-Nov-13	11042013-002.SSF	153537.301	9815
722287.405	4294395.336	3841	04-Nov-13	11042013-002.SSF	153538.197	9816
722288.161	4294395.366	3863	04-Nov-13	11042013-002.SSF	153539.3101	9817
722288.703	4294395.4	4003	04-Nov-13	11042013-002.SSF	153540.165	9818
722289.406	4294395.415	4089	04-Nov-13	11042013-002.SSF	153541.299	9819
722289.921	4294395.507	3672	04-Nov-13	11042013-002.SSF	153542.163	9820
722290.71	4294395.99	3783	04-Nov-13	11042013-002.SSF	153543.261	9821
722291.173	4294396.411	3388	04-Nov-13	11042013-002.SSF	153544.1021	9822
722291.512	4294396.868	3600	04-Nov-13	11042013-002.SSF	153545.298	9823
722291.503	4294396.98	3473	04-Nov-13	11042013-002.SSF	153546.2111	9824
722291.416	4294396.948	3896	04-Nov-13	11042013-002.SSF	153547.296	9825
722291.384	4294396.909	3624	04-Nov-13	11042013-002.SSF	153548.192	9826
722291.417	4294396.894	3673	04-Nov-13	11042013-002.SSF	153549.3	9827
722291.381	4294396.784	3701	04-Nov-13	11042013-002.SSF	153550.302	9828
722291.121	4294396.278	3507	04-Nov-13	11042013-002.SSF	153551.377	9829
722290.848	4294395.576	3697	04-Nov-13	11042013-002.SSF	153552.2889	9830
722290.741	4294394.724	3415	04-Nov-13	11042013-002.SSF	153553.387	9831
722290.804	4294394.089	3406	04-Nov-13	11042013-002.SSF	153554.225	9832
722291.17	4294393.08	3093	04-Nov-13	11042013-002.SSF	153555.313	9833
722291.528	4294392.297	3705	04-Nov-13	11042013-002.SSF	153556.214	9834
722291.924	4294391.7	3374	04-Nov-13	11042013-002.SSF	153557.339	9835
722292.11	4294391.48	3915	04-Nov-13	11042013-002.SSF	153558.26	9836
722292.184	4294391.381	3642	04-Nov-13	11042013-002.SSF	153559.327	9837
722292.208	4294391.332	3601	04-Nov-13	11042013-002.SSF	153560.153	9838
722292.242	4294391.273	3915	04-Nov-13	11042013-002.SSF	153561.2791	9839
722292.271	4294391.22	3792	04-Nov-13	11042013-002.SSF	153562.1801	9840

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722292.314	4294391.175	4083	04-Nov-13	11042013-002.SSF	153563.2679	9841
722292.348	4294391.122	3939	04-Nov-13	11042013-002.SSF	153564.197	9842
722292.395	4294391.051	3416	04-Nov-13	11042013-002.SSF	153565.313	9843
722292.431	4294390.996	3414	04-Nov-13	11042013-002.SSF	153566.2889	9844
722292.466	4294390.943	3240	04-Nov-13	11042013-002.SSF	153567.345	9845
722292.492	4294390.904	3600	04-Nov-13	11042013-002.SSF	153568.2729	9846
722292.504	4294390.872	3825	04-Nov-13	11042013-002.SSF	153569.326	9847
722292.51	4294390.857	3801	04-Nov-13	11042013-002.SSF	153570.275	9848
722292.746	4294390.557	3706	04-Nov-13	11042013-002.SSF	153571.382	9849
722293.347	4294389.881	4379	04-Nov-13	11042013-002.SSF	153572.267	9850
722294.429	4294388.903	4106	04-Nov-13	11042013-002.SSF	153573.316	9851
722295.45	4294388.059	4214	04-Nov-13	11042013-002.SSF	153574.209	9852
722296.644	4294386.9	4148	04-Nov-13	11042013-002.SSF	153575.384	9853
722297.198	4294386.262	4485	04-Nov-13	11042013-002.SSF	153576.2321	9854
722297.274	4294386.04	4241	04-Nov-13	11042013-002.SSF	153577.267	9855
722297.116	4294386.104	3660	04-Nov-13	11042013-002.SSF	153578.2729	9856
722296.944	4294386.167	3769	04-Nov-13	11042013-002.SSF	153579.317	9857
722296.83	4294386.209	3665	04-Nov-13	11042013-002.SSF	153580.262	9858
722296.729	4294386.239	3306	04-Nov-13	11042013-002.SSF	153581.303	9859
722296.658	4294386.268	3645	04-Nov-13	11042013-002.SSF	153582.199	9860
722296.587	4294386.3	3235	04-Nov-13	11042013-002.SSF	153583.345	9861
722296.531	4294386.277	3312	04-Nov-13	11042013-002.SSF	153584.174	9862
722296.454	4294386.214	3108	04-Nov-13	11042013-002.SSF	153585.271	9863
722296.441	4294386.196	2948	04-Nov-13	11042013-002.SSF	153586.229	9864
722296.48	4294386.185	3226	04-Nov-13	11042013-002.SSF	153587.321	9865
722296.51	4294386.19	3179	04-Nov-13	11042013-002.SSF	153588.191	9866
722296.537	4294386.194	2816	04-Nov-13	11042013-002.SSF	153589.2531	9867
722296.492	4294386.211	2889	04-Nov-13	11042013-002.SSF	153590.205	9868
722296.438	4294386.177	3297	04-Nov-13	11042013-002.SSF	153591.275	9869
722296.403	4294386.17	3377	04-Nov-13	11042013-002.SSF	153592.149	9870
722296.369	4294386.208	3369	04-Nov-13	11042013-002.SSF	153593.281	9871
722296.329	4294386.242	3335	04-Nov-13	11042013-002.SSF	153594.202	9872
722296.294	4294386.311	3481	04-Nov-13	11042013-002.SSF	153595.283	9873
722296.267	4294386.322	3458	04-Nov-13	11042013-002.SSF	153596.251	9874
722296.256	4294386.317	3175	04-Nov-13	11042013-002.SSF	153597.3199	9875
722296.255	4294386.318	3346	04-Nov-13	11042013-002.SSF	153598.246	9876
722296.243	4294386.32	3239	04-Nov-13	11042013-002.SSF	153599.261	9877
722296.223	4294386.32	3472	04-Nov-13	11042013-002.SSF	153600.2531	9878
722296.209	4294386.315	3453	04-Nov-13	11042013-002.SSF	153601.275	9879
722296.201	4294386.319	3322	04-Nov-13	11042013-002.SSF	153602.235	9880
722296.178	4294386.302	3158	04-Nov-13	11042013-002.SSF	153603.302	9881
722296.165	4294386.299	3351	04-Nov-13	11042013-002.SSF	153604.23	9882
722296.149	4294386.311	3543	04-Nov-13	11042013-002.SSF	153605.335	9883
722296.12	4294386.34	3305	04-Nov-13	11042013-002.SSF	153606.226	9884
722296.068	4294386.401	3734	04-Nov-13	11042013-002.SSF	153607.329	9885
722295.939	4294386.593	3653	04-Nov-13	11042013-002.SSF	153608.209	9886
722295.514	4294387.261	3562	04-Nov-13	11042013-002.SSF	153609.2629	9887

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722294.738	4294388.379	3533	04-Nov-13	11042013-002.SSF	153610.275	9888
722293.838	4294389.627	3577	04-Nov-13	11042013-002.SSF	153611.33	9889
722293.257	4294390.437	3715	04-Nov-13	11042013-002.SSF	153612.257	9890
722292.82	4294391.036	3904	04-Nov-13	11042013-002.SSF	153613.339	9891
722292.696	4294391.211	3719	04-Nov-13	11042013-002.SSF	153614.23	9892
722292.686	4294391.229	3667	04-Nov-13	11042013-002.SSF	153615.333	9893
722292.682	4294391.229	3435	04-Nov-13	11042013-002.SSF	153616.194	9894
722292.657	4294391.24	3334	04-Nov-13	11042013-002.SSF	153617.3669	9895
722292.48	4294391.453	3390	04-Nov-13	11042013-002.SSF	153618.3361	9896
722291.911	4294392.224	3572	04-Nov-13	11042013-002.SSF	153619.35	9897
722291.3	4294393.093	3712	04-Nov-13	11042013-002.SSF	153620.25	9898
722290.905	4294393.664	3693	04-Nov-13	11042013-002.SSF	153621.345	9899
722290.938	4294393.636	3907	04-Nov-13	11042013-002.SSF	153622.276	9900
722291.103	4294393.463	3982	04-Nov-13	11042013-002.SSF	153623.329	9901
722291.215	4294393.352	4340	04-Nov-13	11042013-002.SSF	153624.234	9902
722291.333	4294393.227	3903	04-Nov-13	11042013-002.SSF	153625.324	9903
722291.423	4294393.14	3703	04-Nov-13	11042013-002.SSF	153626.2841	9904
722291.514	4294393.068	3688	04-Nov-13	11042013-002.SSF	153627.327	9905
722291.589	4294392.992	3462	04-Nov-13	11042013-002.SSF	153628.28	9906
722291.671	4294392.934	3642	04-Nov-13	11042013-002.SSF	153629.324	9907
722291.743	4294392.858	3556	04-Nov-13	11042013-002.SSF	153630.286	9908
722291.821	4294392.787	3905	04-Nov-13	11042013-002.SSF	153631.3311	9909
722291.896	4294392.694	4154	04-Nov-13	11042013-002.SSF	153632.295	9910
722291.959	4294392.604	3701	04-Nov-13	11042013-002.SSF	153633.376	9911
722292.012	4294392.532	3634	04-Nov-13	11042013-002.SSF	153634.307	9912
722292.052	4294392.484	3949	04-Nov-13	11042013-002.SSF	153635.278	9913
722292.074	4294392.462	3751	04-Nov-13	11042013-002.SSF	153636.137	9914
722292.105	4294392.433	3347	04-Nov-13	11042013-002.SSF	153637.231	9915
722292.126	4294392.42	3458	04-Nov-13	11042013-002.SSF	153638.11	9916
722292.144	4294392.396	3520	04-Nov-13	11042013-002.SSF	153639.2	9917
722292.153	4294392.388	3277	04-Nov-13	11042013-002.SSF	153640.22	9918
722292.165	4294392.38	3808	04-Nov-13	11042013-002.SSF	153641.259	9919
722292.173	4294392.354	3800	04-Nov-13	11042013-002.SSF	153642.15	9920
722292.177	4294392.369	3217	04-Nov-13	11042013-002.SSF	153643.3	9921
722292.167	4294392.359	3332	04-Nov-13	11042013-002.SSF	153644.241	9922
722292.163	4294392.364	3089	04-Nov-13	11042013-002.SSF	153645.264	9923
722292.163	4294392.356	3747	04-Nov-13	11042013-002.SSF	153646.262	9924
722292.152	4294392.364	3788	04-Nov-13	11042013-002.SSF	153647.292	9925
722292.146	4294392.377	3825	04-Nov-13	11042013-002.SSF	153648.1331	9926
722292.136	4294392.367	3599	04-Nov-13	11042013-002.SSF	153649.3361	9927
722292.117	4294392.369	3637	04-Nov-13	11042013-002.SSF	153650.2841	9928
722292.063	4294392.388	3651	04-Nov-13	11042013-002.SSF	153651.333	9929
722292.055	4294392.393	3313	04-Nov-13	11042013-002.SSF	153652.332	9930
722292.054	4294392.382	3453	04-Nov-13	11042013-002.SSF	153653.338	9931
722292.055	4294392.39	3502	04-Nov-13	11042013-002.SSF	153654.244	9932
722292.073	4294392.402	3867	04-Nov-13	11042013-002.SSF	153655.3361	9933
722292.081	4294392.381	4020	04-Nov-13	11042013-002.SSF	153656.308	9934

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722292.088	4294392.378	3656	04-Nov-13	11042013-002.SSF	153657.3051	9935
722292.079	4294392.389	3519	04-Nov-13	11042013-002.SSF	153658.274	9936
722292.065	4294392.414	3487	04-Nov-13	11042013-002.SSF	153659.277	9937
722292.06	4294392.419	3671	04-Nov-13	11042013-002.SSF	153660.272	9938
722292.055	4294392.422	3880	04-Nov-13	11042013-002.SSF	153661.36	9939
722292.056	4294392.412	3810	04-Nov-13	11042013-002.SSF	153662.309	9940
722292.056	4294392.429	3943	04-Nov-13	11042013-002.SSF	153663.3101	9941
722292.05	4294392.437	3928	04-Nov-13	11042013-002.SSF	153664.302	9942
722292.05	4294392.428	3657	04-Nov-13	11042013-002.SSF	153665.304	9943
722292.063	4294392.428	3264	04-Nov-13	11042013-002.SSF	153666.223	9944
722292.086	4294392.431	3636	04-Nov-13	11042013-002.SSF	153667.286	9945
722292.092	4294392.41	3740	04-Nov-13	11042013-002.SSF	153668.0861	9946
722292.087	4294392.411	3626	04-Nov-13	11042013-002.SSF	153669.2469	9947
722292.074	4294392.417	3652	04-Nov-13	11042013-002.SSF	153670.28	9948
722292.06	4294392.396	3667	04-Nov-13	11042013-002.SSF	153671.308	9949
722292.066	4294392.386	3885	04-Nov-13	11042013-002.SSF	153672.113	9950
722292.056	4294392.418	3910	04-Nov-13	11042013-002.SSF	153673.283	9951
722292.069	4294392.393	3542	04-Nov-13	11042013-002.SSF	153674.261	9952
722292.145	4294392.289	3447	04-Nov-13	11042013-002.SSF	153675.245	9953
722292.298	4294392.05	3124	04-Nov-13	11042013-002.SSF	153676.129	9954
722292.628	4294391.539	3437	04-Nov-13	11042013-002.SSF	153677.249	9955
722292.941	4294391.073	3643	04-Nov-13	11042013-002.SSF	153678.144	9956
722293.466	4294390.429	3977	04-Nov-13	11042013-002.SSF	153679.228	9957
722293.939	4294389.833	3647	04-Nov-13	11042013-002.SSF	153680.1331	9958
722294.508	4294389.078	3859	04-Nov-13	11042013-002.SSF	153681.213	9959
722295.008	4294388.398	3760	04-Nov-13	11042013-002.SSF	153682.22	9960
722295.482	4294387.702	3787	04-Nov-13	11042013-002.SSF	153683.266	9961
722295.937	4294387.004	4275	04-Nov-13	11042013-002.SSF	153684.177	9962
722296.699	4294385.896	3920	04-Nov-13	11042013-002.SSF	153685.366	9963
722297.366	4294384.946	3952	04-Nov-13	11042013-002.SSF	153686.249	9964
722298.029	4294383.83	4368	04-Nov-13	11042013-002.SSF	153687.213	9965
722298.509	4294382.829	4062	04-Nov-13	11042013-002.SSF	153688.083	9966
722298.939	4294381.462	4152	04-Nov-13	11042013-002.SSF	153689.235	9967
722299.152	4294380.462	3813	04-Nov-13	11042013-002.SSF	153690.093	9968
722299.321	4294378.88	3802	04-Nov-13	11042013-002.SSF	153691.282	9969
722299.31	4294377.695	3893	04-Nov-13	11042013-002.SSF	153692.1639	9970
722299.084	4294376.413	3915	04-Nov-13	11042013-002.SSF	153693.25	9971
722298.821	4294375.331	3777	04-Nov-13	11042013-002.SSF	153694.142	9972
722298.24	4294373.853	3452	04-Nov-13	11042013-002.SSF	153695.23	9973
722297.453	4294372.387	3502	04-Nov-13	11042013-002.SSF	153696.125	9974
722295.947	4294370.186	3687	04-Nov-13	11042013-002.SSF	153697.2111	9975
722294.331	4294368.234	3844	04-Nov-13	11042013-002.SSF	153698.147	9976
722292.32	4294366.091	3647	04-Nov-13	11042013-002.SSF	153699.285	9977
722290.774	4294364.482	3964	04-Nov-13	11042013-002.SSF	153700.201	9978
722288.951	4294362.635	3992	04-Nov-13	11042013-002.SSF	153701.246	9979
722287.272	4294360.947	4038	04-Nov-13	11042013-002.SSF	153702.186	9980
722285.612	4294359.281	3389	04-Nov-13	11042013-002.SSF	153703.235	9981

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722284.694	4294358.391	3518	04-Nov-13	11042013-002.SSF	153704.184	9982
722284.361	4294358.132	4124	04-Nov-13	11042013-002.SSF	153705.298	9983
722284.336	4294358.136	3685	04-Nov-13	11042013-002.SSF	153706.158	9984
722284.371	4294358.216	3760	04-Nov-13	11042013-002.SSF	153707.252	9985
722284.401	4294358.295	3645	04-Nov-13	11042013-002.SSF	153708.246	9986
722284.417	4294358.369	3775	04-Nov-13	11042013-002.SSF	153709.255	9987
722284.449	4294358.43	3458	04-Nov-13	11042013-002.SSF	153710.2629	9988
722284.494	4294358.474	3535	04-Nov-13	11042013-002.SSF	153711.205	9989
722284.531	4294358.532	3593	04-Nov-13	11042013-002.SSF	153712.213	9990
722284.525	4294358.542	3843	04-Nov-13	11042013-002.SSF	153713.304	9991
722284.404	4294358.462	3737	04-Nov-13	11042013-002.SSF	153714.225	9992
722284.031	4294358.225	4052	04-Nov-13	11042013-002.SSF	153715.249	9993
722283.642	4294357.854	4027	04-Nov-13	11042013-002.SSF	153716.186	9994
722283.043	4294357.404	4170	04-Nov-13	11042013-002.SSF	153717.286	9995
722282.372	4294357.087	4138	04-Nov-13	11042013-002.SSF	153718.183	9996
722281.462	4294356.756	4240	04-Nov-13	11042013-002.SSF	153719.248	9997
722280.769	4294356.463	4185	04-Nov-13	11042013-002.SSF	153720.074	9998
722279.747	4294356.039	4049	04-Nov-13	11042013-002.SSF	153721.2531	9999
722279.072	4294355.722	4250	04-Nov-13	11042013-002.SSF	153722.049	10000
722278.141	4294355.25	3800	04-Nov-13	11042013-002.SSF	153723.137	10001
722277.204	4294354.759	3810	04-Nov-13	11042013-002.SSF	153724.168	10002
722275.991	4294354.316	3958	04-Nov-13	11042013-002.SSF	153725.27	10003
722275.031	4294353.99	3374	04-Nov-13	11042013-002.SSF	153726.21	10004
722273.791	4294353.573	3735	04-Nov-13	11042013-002.SSF	153727.277	10005
722272.572	4294353.296	3871	04-Nov-13	11042013-002.SSF	153728.228	10006
722271.387	4294353.196	3775	04-Nov-13	11042013-002.SSF	153729.264	10007
722270.153	4294353.169	3421	04-Nov-13	11042013-002.SSF	153730.2581	10008
722268.887	4294353.214	3656	04-Nov-13	11042013-002.SSF	153731.275	10009
722268.064	4294353.302	3459	04-Nov-13	11042013-002.SSF	153732.0811	10010
722267.428	4294353.385	3468	04-Nov-13	11042013-002.SSF	153733.1541	10011
722267.039	4294353.425	3653	04-Nov-13	11042013-002.SSF	153734.075	10012
722266.868	4294353.411	4072	04-Nov-13	11042013-002.SSF	153735.165	10013
722266.796	4294353.382	3813	04-Nov-13	11042013-002.SSF	153736.189	10014
722266.718	4294353.362	3247	04-Nov-13	11042013-002.SSF	153737.244	10015
722266.69	4294353.333	3484	04-Nov-13	11042013-002.SSF	153738.197	10016
722266.677	4294353.318	3640	04-Nov-13	11042013-002.SSF	153739.183	10017
722266.657	4294353.286	4125	04-Nov-13	11042013-002.SSF	153740.1851	10018
722266.687	4294353.275	4195	04-Nov-13	11042013-002.SSF	153741.228	10019
722266.699	4294353.262	3739	04-Nov-13	11042013-002.SSF	153742.285	10020
722266.667	4294353.256	3686	04-Nov-13	11042013-002.SSF	153743.203	10021
722266.533	4294353.255	3693	04-Nov-13	11042013-002.SSF	153744.156	10022
722266.017	4294353.322	3352	04-Nov-13	11042013-002.SSF	153745.192	10023
722265.142	4294353.443	3378	04-Nov-13	11042013-002.SSF	153746.173	10024
722263.404	4294353.76	3445	04-Nov-13	11042013-002.SSF	153747.259	10025
722261.207	4294354.17	3685	04-Nov-13	11042013-002.SSF	153748.202	10026
722258.323	4294354.764	3408	04-Nov-13	11042013-002.SSF	153749.248	10027
722255.634	4294355.247	3214	04-Nov-13	11042013-002.SSF	153750.184	10028

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722252.53	4294355.716	3428	04-Nov-13	11042013-002.SSF	153751.2679	10029
722250.038	4294355.989	3248	04-Nov-13	11042013-002.SSF	153752.208	10030
722247.365	4294355.957	3454	04-Nov-13	11042013-002.SSF	153753.254	10031
722244.81	4294355.554	3375	04-Nov-13	11042013-002.SSF	153754.261	10032
722242.704	4294354.732	3953	04-Nov-13	11042013-002.SSF	153755.1851	10033
722240.508	4294353.608	3994	04-Nov-13	11042013-002.SSF	153756.153	10034
722238.731	4294352.125	4196	04-Nov-13	11042013-002.SSF	153757.259	10035
722237.786	4294351.061	4160	04-Nov-13	11042013-002.SSF	153758.202	10036
722237.225	4294350.043	3877	04-Nov-13	11042013-002.SSF	153759.2531	10037
722236.867	4294349.177	3951	04-Nov-13	11042013-002.SSF	153760.24	10038
722236.582	4294348.248	4300	04-Nov-13	11042013-002.SSF	153761.246	10039
722236.358	4294347.351	4023	04-Nov-13	11042013-002.SSF	153762.176	10040
722236.152	4294346.132	3831	04-Nov-13	11042013-002.SSF	153763.316	10041
722236.01	4294345.158	4052	04-Nov-13	11042013-002.SSF	153764.183	10042
722235.85	4294343.974	3832	04-Nov-13	11042013-002.SSF	153765.1851	10043
722235.7	4294342.663	4045	04-Nov-13	11042013-002.SSF	153766.215	10044
722235.563	4294341.32	3700	04-Nov-13	11042013-002.SSF	153767.114	10045
722235.376	4294339.529	3754	04-Nov-13	11042013-002.SSF	153768.097	10046
722235.195	4294337.62	3641	04-Nov-13	11042013-002.SSF	153769.16	10047
722235.057	4294336.058	3375	04-Nov-13	11042013-002.SSF	153770.1899	10048
722234.958	4294334.885	3346	04-Nov-13	11042013-002.SSF	153771.188	10049
722234.883	4294333.866	3847	04-Nov-13	11042013-002.SSF	153772.269	10050
722234.819	4294332.973	3559	04-Nov-13	11042013-002.SSF	153773.251	10051
722234.773	4294332.121	3607	04-Nov-13	11042013-002.SSF	153774.199	10052
722234.76	4294331.215	3633	04-Nov-13	11042013-002.SSF	153775.21	10053
722234.881	4294330.861	3866	04-Nov-13	11042013-002.SSF	153776.214	10054
722234.998	4294331.121	4072	04-Nov-13	11042013-002.SSF	153777.2939	10055
722235.109	4294331.556	3618	04-Nov-13	11042013-002.SSF	153778.181	10056
722235.27	4294332.282	3550	04-Nov-13	11042013-002.SSF	153779.199	10057
722235.331	4294332.815	3842	04-Nov-13	11042013-002.SSF	153780.076	10058
722235.402	4294333.15	3736	04-Nov-13	11042013-002.SSF	153781.156	10059
722235.393	4294333.281	3721	04-Nov-13	11042013-002.SSF	153782.167	10060
722235.413	4294333.64	3683	04-Nov-13	11042013-002.SSF	153783.139	10061
722235.507	4294334.304	3947	04-Nov-13	11042013-002.SSF	153784.118	10062
722235.697	4294335.808	3555	04-Nov-13	11042013-002.SSF	153785.306	10063
722235.723	4294337.479	3289	04-Nov-13	11042013-002.SSF	153786.2061	10064
722235.586	4294340.051	3725	04-Nov-13	11042013-002.SSF	153787.283	10065
722235.367	4294342.317	4195	04-Nov-13	11042013-002.SSF	153788.1899	10066
722235.11	4294344.591	4085	04-Nov-13	11042013-002.SSF	153789.236	10067
722234.916	4294346.096	4060	04-Nov-13	11042013-002.SSF	153790.079	10068
722234.498	4294347.72	4046	04-Nov-13	11042013-002.SSF	153791.248	10069
722234.021	4294348.894	4143	04-Nov-13	11042013-002.SSF	153792.092	10070
722232.932	4294350.413	3995	04-Nov-13	11042013-002.SSF	153793.172	10071
722231.727	4294351.465	4115	04-Nov-13	11042013-002.SSF	153794.064	10072
722229.699	4294352.525	3852	04-Nov-13	11042013-002.SSF	153795.214	10073
722228.392	4294353.089	3839	04-Nov-13	11042013-002.SSF	153796.037	10074
722227.624	4294353.39	4124	04-Nov-13	11042013-002.SSF	153797.184	10075

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722227.498	4294353.467	4720	04-Nov-13	11042013-002.SSF	153798.027	10076
722227.763	4294353.506	4740	04-Nov-13	11042013-002.SSF	153799.1281	10077
722228.725	4294353.507	4331	04-Nov-13	11042013-002.SSF	153800.1801	10078
722230.516	4294353.544	3914	04-Nov-13	11042013-002.SSF	153801.22	10079
722232.85	4294353.71	3671	04-Nov-13	11042013-002.SSF	153802.197	10080
722235.234	4294354.016	3407	04-Nov-13	11042013-002.SSF	153803.23	10081
722237.079	4294354.38	3431	04-Nov-13	11042013-002.SSF	153804.118	10082
722238.993	4294354.83	3745	04-Nov-13	11042013-002.SSF	153805.199	10083
722240.757	4294355.224	3607	04-Nov-13	11042013-002.SSF	153806.129	10084
722243.665	4294355.478	3431	04-Nov-13	11042013-002.SSF	153807.334	10085
722245.538	4294355.554	3752	04-Nov-13	11042013-002.SSF	153808.077	10086
722248.189	4294355.413	3656	04-Nov-13	11042013-002.SSF	153809.1801	10087
722250.324	4294355.069	3969	04-Nov-13	11042013-002.SSF	153810.071	10088
722253.18	4294354.502	4002	04-Nov-13	11042013-002.SSF	153811.215	10089
722255.428	4294353.972	3766	04-Nov-13	11042013-002.SSF	153812.083	10090
722258.117	4294353.354	3618	04-Nov-13	11042013-002.SSF	153813.092	10091
722260.724	4294352.856	4000	04-Nov-13	11042013-002.SSF	153814.027	10092
722264.019	4294352.125	4087	04-Nov-13	11042013-002.SSF	153815.184	10093
722266.895	4294351.618	3724	04-Nov-13	11042013-002.SSF	153816.153	10094
722269.878	4294351.339	3827	04-Nov-13	11042013-002.SSF	153817.197	10095
722272.547	4294351.491	3593	04-Nov-13	11042013-002.SSF	153818.179	10096
722275.142	4294351.96	3648	04-Nov-13	11042013-002.SSF	153819.157	10097
722277.277	4294352.838	3799	04-Nov-13	11042013-002.SSF	153820.0551	10098
722279.57	4294354.292	3907	04-Nov-13	11042013-002.SSF	153821.199	10099
722281.284	4294355.771	3742	04-Nov-13	11042013-002.SSF	153822.158	10100
722283.133	4294357.699	3897	04-Nov-13	11042013-002.SSF	153823.231	10101
722284.658	4294359.534	3970	04-Nov-13	11042013-002.SSF	153824.1591	10102
722286.137	4294361.518	3853	04-Nov-13	11042013-002.SSF	153825.132	10103
722287.592	4294363.627	3652	04-Nov-13	11042013-002.SSF	153826.161	10104
722288.935	4294365.546	3944	04-Nov-13	11042013-002.SSF	153827.119	10105
722290.527	4294367.309	4026	04-Nov-13	11042013-002.SSF	153828.1121	10106
722292.152	4294368.821	3735	04-Nov-13	11042013-002.SSF	153829.121	10107
722293.655	4294370.102	3413	04-Nov-13	11042013-002.SSF	153830.197	10108
722294.887	4294370.97	3052	04-Nov-13	11042013-002.SSF	153831.2271	10109
722295.71	4294371.567	3539	04-Nov-13	11042013-002.SSF	153832.101	10110
722296.699	4294372.32	4188	04-Nov-13	11042013-002.SSF	153833.24	10111
722297.379	4294372.792	4208	04-Nov-13	11042013-002.SSF	153834.123	10112
722297.743	4294373.029	3889	04-Nov-13	11042013-002.SSF	153835.194	10113
722297.87	4294373.035	3845	04-Nov-13	11042013-002.SSF	153836.1071	10114
722298.086	4294372.979	3985	04-Nov-13	11042013-002.SSF	153837.1949	10115
722298.253	4294372.968	3652	04-Nov-13	11042013-002.SSF	153838.202	10116
722298.387	4294372.956	3479	04-Nov-13	11042013-002.SSF	153839.274	10117
722298.461	4294372.947	3494	04-Nov-13	11042013-002.SSF	153840.085	10118
722298.546	4294372.915	3608	04-Nov-13	11042013-002.SSF	153841.2531	10119
722298.593	4294372.89	3537	04-Nov-13	11042013-002.SSF	153842.064	10120
722298.627	4294372.859	3407	04-Nov-13	11042013-002.SSF	153843.179	10121
722298.639	4294372.843	3566	04-Nov-13	11042013-002.SSF	153844.152	10122

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722298.663	4294372.848	3572	04-Nov-13	11042013-002.SSF	153846.188	10124
722298.702	4294372.838	3817	04-Nov-13	11042013-002.SSF	153847.201	10125
722298.725	4294372.828	4097	04-Nov-13	11042013-002.SSF	153848.078	10126
722298.748	4294372.817	3662	04-Nov-13	11042013-002.SSF	153849.191	10127
722298.745	4294372.832	3785	04-Nov-13	11042013-002.SSF	153850.193	10128
722298.761	4294372.835	4004	04-Nov-13	11042013-002.SSF	153851.1899	10129
722298.773	4294372.842	3767	04-Nov-13	11042013-002.SSF	153852.22	10130
722298.779	4294372.856	3821	04-Nov-13	11042013-002.SSF	153853.1949	10131
722298.798	4294372.863	3522	04-Nov-13	11042013-002.SSF	153854.184	10132
722298.831	4294372.862	3908	04-Nov-13	11042013-002.SSF	153855.187	10133
722298.854	4294372.858	3893	04-Nov-13	11042013-002.SSF	153856.1021	10134
722298.859	4294372.871	3885	04-Nov-13	11042013-002.SSF	153857.1639	10135
722298.866	4294372.893	3858	04-Nov-13	11042013-002.SSF	153858.177	10136
722298.89	4294372.889	3535	04-Nov-13	11042013-002.SSF	153859.217	10137
722298.91	4294372.888	3376	04-Nov-13	11042013-002.SSF	153860.101	10138
722298.932	4294372.899	3211	04-Nov-13	11042013-002.SSF	153861.2371	10139
722298.951	4294372.895	3389	04-Nov-13	11042013-002.SSF	153862.047	10140
722298.968	4294372.886	3436	04-Nov-13	11042013-002.SSF	153863.2321	10141
722298.974	4294372.879	3448	04-Nov-13	11042013-002.SSF	153864.131	10142
722298.997	4294372.898	3634	04-Nov-13	11042013-002.SSF	153865.134	10143
722299.013	4294372.914	3731	04-Nov-13	11042013-002.SSF	153866.15	10144
722299.014	4294372.91	4019	04-Nov-13	11042013-002.SSF	153867.2531	10145
722299.033	4294372.907	3888	04-Nov-13	11042013-002.SSF	153868.092	10146
722299.008	4294372.901	3829	04-Nov-13	11042013-002.SSF	153869.1591	10147
722299.01	4294372.884	3796	04-Nov-13	11042013-002.SSF	153870.192	10148
722298.996	4294372.879	3530	04-Nov-13	11042013-002.SSF	153871.218	10149
722298.985	4294372.872	3688	04-Nov-13	11042013-002.SSF	153872.236	10150
722298.978	4294372.869	3627	04-Nov-13	11042013-002.SSF	153873.205	10151
722298.977	4294372.873	3772	04-Nov-13	11042013-002.SSF	153874.197	10152
722298.986	4294372.882	3794	04-Nov-13	11042013-002.SSF	153875.2159	10153
722298.996	4294372.901	3529	04-Nov-13	11042013-002.SSF	153876.084	10154
722298.993	4294372.884	3372	04-Nov-13	11042013-002.SSF	153877.243	10155
722299.009	4294372.901	3569	04-Nov-13	11042013-002.SSF	153878.147	10156
722298.99	4294372.889	3500	04-Nov-13	11042013-002.SSF	153879.1639	10157
722298.964	4294372.88	3716	04-Nov-13	11042013-002.SSF	153880.1639	10158
722298.942	4294372.861	3523	04-Nov-13	11042013-002.SSF	153881.2061	10159
722298.94	4294372.843	3781	04-Nov-13	11042013-002.SSF	153882.11	10160
722298.93	4294372.83	4264	04-Nov-13	11042013-002.SSF	153883.197	10161
722298.916	4294372.814	4049	04-Nov-13	11042013-002.SSF	153884.074	10162
722298.881	4294372.795	4115	04-Nov-13	11042013-002.SSF	153885.201	10163
722298.87	4294372.786	3919	04-Nov-13	11042013-002.SSF	153886.115	10164
722298.861	4294372.78	3772	04-Nov-13	11042013-002.SSF	153887.193	10165
722298.869	4294372.775	3637	04-Nov-13	11042013-002.SSF	153888.186	10166
722298.884	4294372.762	3755	04-Nov-13	11042013-002.SSF	153889.244	10167
722298.897	4294372.756	3590	04-Nov-13	11042013-002.SSF	153890.1219	10168
722298.89	4294372.756	3557	04-Nov-13	11042013-002.SSF	153891.215	10169

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722298.89	4294372.76	3643	04-Nov-13	11042013-002.SSF	153892.09	10170
722298.901	4294372.762	3759	04-Nov-13	11042013-002.SSF	153893.2629	10171
722298.908	4294372.772	3787	04-Nov-13	11042013-002.SSF	153894.113	10172
722298.908	4294372.788	3780	04-Nov-13	11042013-002.SSF	153895.173	10173
722298.915	4294372.786	3963	04-Nov-13	11042013-002.SSF	153896.13	10174
722298.932	4294372.79	3954	04-Nov-13	11042013-002.SSF	153897.26	10175
722298.934	4294372.8	4122	04-Nov-13	11042013-002.SSF	153898.0861	10176
722298.951	4294372.808	4043	04-Nov-13	11042013-002.SSF	153899.239	10177
722298.96	4294372.815	4007	04-Nov-13	11042013-002.SSF	153900.106	10178
722298.978	4294372.827	4009	04-Nov-13	11042013-002.SSF	153901.183	10179
722298.987	4294372.837	3792	04-Nov-13	11042013-002.SSF	153902.156	10180
722298.98	4294372.844	3528	04-Nov-13	11042013-002.SSF	153903.17	10181
722298.968	4294372.845	3492	04-Nov-13	11042013-002.SSF	153904.105	10182
722298.952	4294372.851	3629	04-Nov-13	11042013-002.SSF	153905.254	10183
722298.941	4294372.853	3706	04-Nov-13	11042013-002.SSF	153906.115	10184
722298.908	4294372.844	3712	04-Nov-13	11042013-002.SSF	153907.21	10185
722298.843	4294372.814	3504	04-Nov-13	11042013-002.SSF	153908.073	10186
722298.804	4294372.789	3437	04-Nov-13	11042013-002.SSF	153909.203	10187
722298.757	4294372.781	3621	04-Nov-13	11042013-002.SSF	153910.056	10188
722298.806	4294372.819	3717	04-Nov-13	11042013-002.SSF	153911.285	10189
722298.997	4294373.006	3343	04-Nov-13	11042013-002.SSF	153912.072	10190
722299.464	4294373.626	3403	04-Nov-13	11042013-002.SSF	153913.265	10191
722299.778	4294374.405	3639	04-Nov-13	11042013-002.SSF	153914.095	10192
722300.326	4294375.717	3622	04-Nov-13	11042013-002.SSF	153915.088	10193
722300.911	4294377.193	3417	04-Nov-13	11042013-002.SSF	153916.109	10194
722301.725	4294378.291	3444	04-Nov-13	11042013-002.SSF	153917.0129	10195
722302.869	4294379.222	3557	04-Nov-13	11042013-002.SSF	153918.028	10196
722303.876	4294379.605	2991	04-Nov-13	11042013-002.SSF	153919.116	10197
722304.429	4294379.789	3205	04-Nov-13	11042013-002.SSF	153920.061	10198
722304.616	4294379.812	3123	04-Nov-13	11042013-002.SSF	153921.118	10199
722304.487	4294379.769	3511	04-Nov-13	11042013-002.SSF	153922.0341	10200
722303.868	4294379.584	3655	04-Nov-13	11042013-002.SSF	153923.2271	10201
722303.208	4294379.362	3676	04-Nov-13	11042013-002.SSF	153924.042	10202
722302.006	4294379.053	3530	04-Nov-13	11042013-002.SSF	153925.236	10203
722301.078	4294378.995	3478	04-Nov-13	11042013-002.SSF	153926.1479	10204
722299.946	4294379.228	3224	04-Nov-13	11042013-002.SSF	153927.26	10205
722299.074	4294379.809	3636	04-Nov-13	11042013-002.SSF	153928.118	10206
722298.289	4294380.952	3717	04-Nov-13	11042013-002.SSF	153929.198	10207
722297.837	4294382.011	3861	04-Nov-13	11042013-002.SSF	153930.108	10208
722297.424	4294383.113	3702	04-Nov-13	11042013-002.SSF	153931.181	10209
722296.901	4294384.223	3642	04-Nov-13	11042013-002.SSF	153932.118	10210
722295.871	4294385.833	3706	04-Nov-13	11042013-002.SSF	153933.226	10211
722294.987	4294387.04	3592	04-Nov-13	11042013-002.SSF	153934.089	10212
722294.179	4294388.108	3663	04-Nov-13	11042013-002.SSF	153935.25	10213
722293.831	4294388.546	3845	04-Nov-13	11042013-002.SSF	153936.087	10214
722293.596	4294388.865	3828	04-Nov-13	11042013-002.SSF	153937.16	10215
722293.478	4294389.052	3621	04-Nov-13	11042013-002.SSF	153938.115	10216

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722293.461	4294389.114	3412	04-Nov-13	11042013-002.SSF	153939.2531	10217
722293.488	4294389.114	3291	04-Nov-13	11042013-002.SSF	153940.113	10218
722293.512	4294389.116	3441	04-Nov-13	11042013-002.SSF	153941.046	10219
722293.525	4294389.099	3675	04-Nov-13	11042013-002.SSF	153942.022	10220
722293.538	4294389.089	3770	04-Nov-13	11042013-002.SSF	153943.1281	10221
722293.542	4294389.073	3763	04-Nov-13	11042013-002.SSF	153944.0229	10222
722293.556	4294389.059	3654	04-Nov-13	11042013-002.SSF	153945.197	10223
722293.577	4294389.055	3240	04-Nov-13	11042013-002.SSF	153946.03	10224
722293.615	4294389.041	3270	04-Nov-13	11042013-002.SSF	153947.1949	10225
722293.636	4294389.036	3392	04-Nov-13	11042013-002.SSF	153948.103	10226
722293.651	4294389.023	3520	04-Nov-13	11042013-002.SSF	153949.17	10227
722293.665	4294389.023	3795	04-Nov-13	11042013-002.SSF	153950.121	10228
722293.681	4294389.016	3679	04-Nov-13	11042013-002.SSF	153951.222	10229
722293.688	4294389.005	3892	04-Nov-13	11042013-002.SSF	153952.126	10230
722293.695	4294389.009	4019	04-Nov-13	11042013-002.SSF	153953.239	10231
722293.692	4294388.991	4106	04-Nov-13	11042013-002.SSF	153954.152	10232
722293.697	4294389.008	3427	04-Nov-13	11042013-002.SSF	153955.088	10233
722293.687	4294388.989	3645	04-Nov-13	11042013-002.SSF	153956.104	10234
722293.693	4294388.987	3483	04-Nov-13	11042013-002.SSF	153957.1121	10235
722293.697	4294388.984	3579	04-Nov-13	11042013-002.SSF	153958.079	10236
722293.702	4294388.972	3498	04-Nov-13	11042013-002.SSF	153959.118	10237
722293.702	4294388.969	3737	04-Nov-13	11042013-002.SSF	153960.0861	10238
722293.699	4294388.946	3872	04-Nov-13	11042013-002.SSF	153961.0341	10239
722293.691	4294388.939	3926	04-Nov-13	11042013-002.SSF	153962.0389	10240
722293.687	4294388.932	3851	04-Nov-13	11042013-002.SSF	153963.146	10241
722293.681	4294388.916	3771	04-Nov-13	11042013-002.SSF	153963.973	10242
722293.689	4294388.901	3606	04-Nov-13	11042013-002.SSF	153965.212	10243
722293.699	4294388.894	3798	04-Nov-13	11042013-002.SSF	153966.116	10244
722293.706	4294388.888	3734	04-Nov-13	11042013-002.SSF	153967.228	10245
722293.706	4294388.878	3555	04-Nov-13	11042013-002.SSF	153968.1851	10246
722293.701	4294388.878	3477	04-Nov-13	11042013-002.SSF	153969.223	10247
722293.704	4294388.867	3613	04-Nov-13	11042013-002.SSF	153970.1379	10248
722293.709	4294388.86	4057	04-Nov-13	11042013-002.SSF	153971.2419	10249
722293.707	4294388.842	4090	04-Nov-13	11042013-002.SSF	153972.239	10250
722293.711	4294388.834	3808	04-Nov-13	11042013-002.SSF	153973.316	10251
722293.71	4294388.833	3694	04-Nov-13	11042013-002.SSF	153974.158	10252
722293.713	4294388.836	3623	04-Nov-13	11042013-002.SSF	153975.167	10253
722293.712	4294388.833	3905	04-Nov-13	11042013-002.SSF	153976.188	10254
722293.714	4294388.841	3967	04-Nov-13	11042013-002.SSF	153977.178	10255
722293.716	4294388.844	3813	04-Nov-13	11042013-002.SSF	153978.01	10256
722293.722	4294388.85	3300	04-Nov-13	11042013-002.SSF	153979.257	10257
722293.723	4294388.863	3236	04-Nov-13	11042013-002.SSF	153980.036	10258
722293.719	4294388.865	3568	04-Nov-13	11042013-002.SSF	153981.228	10259
722293.722	4294388.863	3829	04-Nov-13	11042013-002.SSF	153982.092	10260
722293.731	4294388.882	4014	04-Nov-13	11042013-002.SSF	153983.1851	10261
722293.732	4294388.881	3810	04-Nov-13	11042013-002.SSF	153984.058	10262
722293.743	4294388.899	3658	04-Nov-13	11042013-002.SSF	153985.0389	10263

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722293.757	4294388.9	3471	04-Nov-13	11042013-002.SSF	153987.2111	10265
722293.765	4294388.891	3430	04-Nov-13	11042013-002.SSF	153988.208	10266
722293.772	4294388.891	3587	04-Nov-13	11042013-002.SSF	153989.269	10267
722293.777	4294388.888	3585	04-Nov-13	11042013-002.SSF	153990.1331	10268
722293.787	4294388.881	3261	04-Nov-13	11042013-002.SSF	153991.161	10269
722293.783	4294388.884	3094	04-Nov-13	11042013-002.SSF	153992.061	10270
722293.781	4294388.884	3113	04-Nov-13	11042013-002.SSF	153993.126	10271
722293.785	4294388.894	3341	04-Nov-13	11042013-002.SSF	153994.078	10272
722293.791	4294388.903	3934	04-Nov-13	11042013-002.SSF	153995.2159	10273
722293.793	4294388.897	4095	04-Nov-13	11042013-002.SSF	153996.076	10274
722293.791	4294388.913	3623	04-Nov-13	11042013-002.SSF	153997.2	10275
722293.785	4294388.917	3876	04-Nov-13	11042013-002.SSF	153998.0909	10276
722293.787	4294388.922	3755	04-Nov-13	11042013-002.SSF	153999.207	10277
722293.792	4294388.925	3409	04-Nov-13	11042013-002.SSF	154000.115	10278
722293.803	4294388.939	3673	04-Nov-13	11042013-002.SSF	154001.205	10279
722293.813	4294388.936	3588	04-Nov-13	11042013-002.SSF	154002.089	10280
722293.824	4294388.947	3871	04-Nov-13	11042013-002.SSF	154003.214	10281
722293.823	4294388.946	3752	04-Nov-13	11042013-002.SSF	154004.135	10282
722293.823	4294388.954	3685	04-Nov-13	11042013-002.SSF	154005.244	10283
722293.825	4294388.956	3385	04-Nov-13	11042013-002.SSF	154006.0129	10284
722293.826	4294388.946	4027	04-Nov-13	11042013-002.SSF	154007.171	10285
722293.83	4294388.949	3892	04-Nov-13	11042013-002.SSF	154008.0811	10286
722293.835	4294388.959	3922	04-Nov-13	11042013-002.SSF	154009.225	10287
722293.84	4294388.971	3908	04-Nov-13	11042013-002.SSF	154010.038	10288
722293.841	4294388.961	3586	04-Nov-13	11042013-002.SSF	154011.149	10289
722293.844	4294388.97	3757	04-Nov-13	11042013-002.SSF	154012.057	10290
722293.836	4294388.974	3891	04-Nov-13	11042013-002.SSF	154013.24	10291
722293.833	4294388.959	4116	04-Nov-13	11042013-002.SSF	154014.093	10292
722293.842	4294388.975	3807	04-Nov-13	11042013-002.SSF	154015.2419	10293
722293.843	4294388.974	3746	04-Nov-13	11042013-002.SSF	154016.057	10294
722293.849	4294388.978	3982	04-Nov-13	11042013-002.SSF	154017.208	10295
722293.852	4294388.99	3875	04-Nov-13	11042013-002.SSF	154018.079	10296
722293.846	4294389	3724	04-Nov-13	11042013-002.SSF	154019.226	10297
722293.841	4294388.986	3775	04-Nov-13	11042013-002.SSF	154020.1219	10298
722293.85	4294388.992	3856	04-Nov-13	11042013-002.SSF	154021.189	10299
722293.854	4294388.984	3579	04-Nov-13	11042013-002.SSF	154022.041	10300
722293.856	4294388.998	3633	04-Nov-13	11042013-002.SSF	154023.2321	10301
722293.851	4294388.999	3753	04-Nov-13	11042013-002.SSF	154024.021	10302
722293.857	4294389.012	3663	04-Nov-13	11042013-002.SSF	154025.057	10303
722293.863	4294389.003	4071	04-Nov-13	11042013-002.SSF	154026.125	10304
722293.87	4294389.008	3827	04-Nov-13	11042013-002.SSF	154027.146	10305
722293.87	4294389.008	3585	04-Nov-13	11042013-002.SSF	154028.078	10306
722293.873	4294389.006	3246	04-Nov-13	11042013-002.SSF	154029.175	10307
722293.874	4294388.996	3363	04-Nov-13	11042013-002.SSF	154030.145	10308
722293.882	4294388.998	3362	04-Nov-13	11042013-002.SSF	154031.22	10309
722293.892	4294389	3481	04-Nov-13	11042013-002.SSF	154032.095	10310

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722293.898	4294388.985	3503	04-Nov-13	11042013-002.SSF	154033.108	10311
722293.906	4294388.997	3215	04-Nov-13	11042013-002.SSF	154034.14	10312
722293.907	4294389.008	3263	04-Nov-13	11042013-002.SSF	154035.146	10313
722293.903	4294389.018	3695	04-Nov-13	11042013-002.SSF	154036.21	10314
722293.902	4294389.021	3556	04-Nov-13	11042013-002.SSF	154037.198	10315
722293.9	4294389.017	3433	04-Nov-13	11042013-002.SSF	154038.099	10316
722293.9	4294389.003	3386	04-Nov-13	11042013-002.SSF	154039.1639	10317
722293.903	4294389.006	3719	04-Nov-13	11042013-002.SSF	154039.99	10318
722293.904	4294389.007	3525	04-Nov-13	11042013-002.SSF	154041.088	10319
722293.899	4294389.006	3565	04-Nov-13	11042013-002.SSF	154041.9449	10320
722293.892	4294389.003	3385	04-Nov-13	11042013-002.SSF	154043.051	10321
722293.893	4294388.996	3366	04-Nov-13	11042013-002.SSF	154044.048	10322
722293.905	4294389.008	3701	04-Nov-13	11042013-002.SSF	154045.249	10323
722293.911	4294389.016	3679	04-Nov-13	11042013-002.SSF	154046.1219	10324
722293.916	4294389.01	3869	04-Nov-13	11042013-002.SSF	154047.243	10325
722293.922	4294389.022	3922	04-Nov-13	11042013-002.SSF	154048.084	10326
722293.92	4294389.014	3893	04-Nov-13	11042013-002.SSF	154049.199	10327
722293.917	4294389.013	3577	04-Nov-13	11042013-002.SSF	154050.011	10328
722293.907	4294389.001	3565	04-Nov-13	11042013-002.SSF	154051.056	10329
722293.903	4294388.999	3212	04-Nov-13	11042013-002.SSF	154051.9919	10330
722293.911	4294389.015	3269	04-Nov-13	11042013-002.SSF	154053.135	10331
722293.919	4294389.007	3181	04-Nov-13	11042013-002.SSF	154054.002	10332
722293.934	4294389.026	3289	04-Nov-13	11042013-002.SSF	154055.183	10333
722293.933	4294389.026	3463	04-Nov-13	11042013-002.SSF	154056.0909	10334
722293.931	4294389.042	3530	04-Nov-13	11042013-002.SSF	154057.2	10335
722293.926	4294389.037	3703	04-Nov-13	11042013-002.SSF	154058.1	10336
722293.931	4294389.031	3748	04-Nov-13	11042013-002.SSF	154059.244	10337
722293.94	4294389.035	3623	04-Nov-13	11042013-002.SSF	154060.057	10338
722293.941	4294389.013	3613	04-Nov-13	11042013-002.SSF	154061.032	10339
722293.947	4294389.023	3240	04-Nov-13	11042013-002.SSF	154061.974	10340
722293.944	4294389.018	3630	04-Nov-13	11042013-002.SSF	154063.186	10341
722293.946	4294389.013	3549	04-Nov-13	11042013-002.SSF	154064.051	10342
722293.944	4294389.017	3331	04-Nov-13	11042013-002.SSF	154065.2729	10343
722293.938	4294389.011	3689	04-Nov-13	11042013-002.SSF	154066.073	10344
722293.931	4294389.005	3590	04-Nov-13	11042013-002.SSF	154067.165	10345
722293.926	4294389.003	3294	04-Nov-13	11042013-002.SSF	154068.075	10346
722293.93	4294389.002	3503	04-Nov-13	11042013-002.SSF	154069.201	10347
722293.939	4294389.016	3905	04-Nov-13	11042013-002.SSF	154070.072	10348
722293.943	4294389.019	3629	04-Nov-13	11042013-002.SSF	154071.123	10349
722293.945	4294389.024	3646	04-Nov-13	11042013-002.SSF	154072.026	10350
722293.945	4294389.025	3468	04-Nov-13	11042013-002.SSF	154073.158	10351
722293.94	4294389.014	3443	04-Nov-13	11042013-002.SSF	154074.083	10352
722293.937	4294389.003	3077	04-Nov-13	11042013-002.SSF	154075.24	10353
722293.935	4294389.008	3576	04-Nov-13	11042013-002.SSF	154076.099	10354
722293.933	4294389	3541	04-Nov-13	11042013-002.SSF	154077.2531	10355
722293.93	4294388.99	3544	04-Nov-13	11042013-002.SSF	154078.041	10356
722293.934	4294388.994	3396	04-Nov-13	11042013-002.SSF	154079.265	10357

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722293.93	4294388.985	3433	04-Nov-13	11042013-002.SSF	154080.054	10358
722293.931	4294388.997	3326	04-Nov-13	11042013-002.SSF	154081.293	10359
722293.931	4294388.999	3168	04-Nov-13	11042013-002.SSF	154082.064	10360
722293.935	4294389.001	3394	04-Nov-13	11042013-002.SSF	154083.147	10361
722293.941	4294389.007	3664	04-Nov-13	11042013-002.SSF	154084.0551	10362
722293.946	4294388.998	3658	04-Nov-13	11042013-002.SSF	154085.1689	10363
722293.947	4294388.989	3715	04-Nov-13	11042013-002.SSF	154086.0229	10364
722293.947	4294388.996	3342	04-Nov-13	11042013-002.SSF	154087.205	10365
722293.942	4294388.993	3485	04-Nov-13	11042013-002.SSF	154088.068	10366
722293.941	4294388.985	3565	04-Nov-13	11042013-002.SSF	154089.186	10367
722293.94	4294388.981	3513	04-Nov-13	11042013-002.SSF	154090.124	10368
722293.938	4294388.988	3701	04-Nov-13	11042013-002.SSF	154091.035	10369
722293.929	4294388.976	3521	04-Nov-13	11042013-002.SSF	154092.061	10370
722293.93	4294388.982	3518	04-Nov-13	11042013-002.SSF	154093.059	10371
722293.932	4294388.989	3411	04-Nov-13	11042013-002.SSF	154094.092	10372
722293.928	4294388.981	3464	04-Nov-13	11042013-002.SSF	154095.094	10373
722293.918	4294388.962	3681	04-Nov-13	11042013-002.SSF	154095.993	10374
722293.924	4294388.971	3593	04-Nov-13	11042013-002.SSF	154097.092	10375
722293.93	4294388.96	3821	04-Nov-13	11042013-002.SSF	154098.104	10376
722293.936	4294388.96	3941	04-Nov-13	11042013-002.SSF	154099.038	10377
722293.937	4294388.958	3612	04-Nov-13	11042013-002.SSF	154099.974	10378
722293.93	4294388.956	3607	04-Nov-13	11042013-002.SSF	154100.972	10379
722293.926	4294388.95	3873	04-Nov-13	11042013-002.SSF	154102.087	10380
722293.926	4294388.959	3626	04-Nov-13	11042013-002.SSF	154103.106	10381
722293.927	4294388.948	3772	04-Nov-13	11042013-002.SSF	154103.915	10382
722293.924	4294388.938	3892	04-Nov-13	11042013-002.SSF	154105.064	10383
722293.926	4294388.917	3981	04-Nov-13	11042013-002.SSF	154105.9871	10384
722293.789	4294389.086	3987	04-Nov-13	11042013-002.SSF	154107.04	10385
722293.421	4294389.523	4080	04-Nov-13	11042013-002.SSF	154107.9659	10386
722292.761	4294390.332	4020	04-Nov-13	11042013-002.SSF	154109.093	10387
722292.134	4294391.161	3701	04-Nov-13	11042013-002.SSF	154110.1121	10388
722291.504	4294392	3522	04-Nov-13	11042013-002.SSF	154111.115	10389
722291.012	4294392.736	3826	04-Nov-13	11042013-002.SSF	154112.061	10390
722290.665	4294393.202	3719	04-Nov-13	11042013-002.SSF	154113.149	10391
722290.561	4294393.3	3840	04-Nov-13	11042013-002.SSF	154114.035	10392
722290.585	4294393.275	3487	04-Nov-13	11042013-002.SSF	154115.042	10393
722290.631	4294393.216	3281	04-Nov-13	11042013-002.SSF	154116.047	10394
722290.657	4294393.177	3735	04-Nov-13	11042013-002.SSF	154116.998	10395
722290.669	4294393.157	3601	04-Nov-13	11042013-002.SSF	154117.983	10396
722290.679	4294393.154	3608	04-Nov-13	11042013-002.SSF	154119.0179	10397
722290.682	4294393.129	3642	04-Nov-13	11042013-002.SSF	154120.068	10398
722290.679	4294393.108	3563	04-Nov-13	11042013-002.SSF	154121.057	10399
722290.68	4294393.074	3834	04-Nov-13	11042013-002.SSF	154122.037	10400
722290.687	4294393.089	4054	04-Nov-13	11042013-002.SSF	154123.045	10401
722290.692	4294393.069	4013	04-Nov-13	11042013-002.SSF	154124.035	10402
722290.691	4294393.059	3870	04-Nov-13	11042013-002.SSF	154125.061	10403
722290.689	4294393.061	3669	04-Nov-13	11042013-002.SSF	154126.007	10404

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722290.691	4294393.046	3519	04-Nov-13	11042013-002.SSF	154127.094	10405
722290.69	4294393.032	3329	04-Nov-13	11042013-002.SSF	154128.0129	10406
722290.689	4294393.044	4040	04-Nov-13	11042013-002.SSF	154129.073	10407
722290.693	4294393.067	4057	04-Nov-13	11042013-002.SSF	154130.017	10408
722290.695	4294393.025	3752	04-Nov-13	11042013-002.SSF	154131.061	10409
722290.7	4294393.025	3731	04-Nov-13	11042013-002.SSF	154132	10410
722290.697	4294393.027	3216	04-Nov-13	11042013-002.SSF	154133.131	10411
722290.695	4294393.027	3526	04-Nov-13	11042013-002.SSF	154134.042	10412
722290.692	4294393.03	3641	04-Nov-13	11042013-002.SSF	154135.116	10413
722290.691	4294393.012	3840	04-Nov-13	11042013-002.SSF	154136.061	10414
722290.696	4294393.026	3787	04-Nov-13	11042013-002.SSF	154137.0699	10415
722290.7	4294393.057	3533	04-Nov-13	11042013-002.SSF	154138.0959	10416
722290.707	4294393.043	3525	04-Nov-13	11042013-002.SSF	154139.135	10417
722290.715	4294393.035	3475	04-Nov-13	11042013-002.SSF	154140.0861	10418
722290.716	4294393.046	4092	04-Nov-13	11042013-002.SSF	154141.11	10419
722290.717	4294393.065	3929	04-Nov-13	11042013-002.SSF	154142.072	10420
722290.72	4294393.069	3762	04-Nov-13	11042013-002.SSF	154143.063	10421
722290.726	4294393.088	3721	04-Nov-13	11042013-002.SSF	154144.061	10422
722290.725	4294393.079	4043	04-Nov-13	11042013-002.SSF	154145.0649	10423
722290.733	4294393.055	4044	04-Nov-13	11042013-002.SSF	154146.0341	10424
722290.751	4294393.054	4060	04-Nov-13	11042013-002.SSF	154147.089	10425
722290.762	4294393.041	3866	04-Nov-13	11042013-002.SSF	154148.015	10426
722290.775	4294393.049	3952	04-Nov-13	11042013-002.SSF	154149.1	10427
722290.789	4294393.037	3595	04-Nov-13	11042013-002.SSF	154150.036	10428
722290.805	4294393.046	3747	04-Nov-13	11042013-002.SSF	154151.052	10429
722290.813	4294393.075	4057	04-Nov-13	11042013-002.SSF	154152.017	10430
722290.818	4294393.093	3925	04-Nov-13	11042013-002.SSF	154153.103	10431
722290.823	4294393.106	3970	04-Nov-13	11042013-002.SSF	154153.981	10432
722290.823	4294393.094	3860	04-Nov-13	11042013-002.SSF	154155.0699	10433
722290.821	4294393.084	3761	04-Nov-13	11042013-002.SSF	154156.176	10434
722290.819	4294393.08	3781	04-Nov-13	11042013-002.SSF	154157.178	10435
722290.819	4294393.076	3904	04-Nov-13	11042013-002.SSF	154157.995	10436
722290.817	4294393.082	3936	04-Nov-13	11042013-002.SSF	154159.178	10437
722290.819	4294393.079	3526	04-Nov-13	11042013-002.SSF	154160.099	10438
722290.825	4294393.079	3693	04-Nov-13	11042013-002.SSF	154161.132	10439
722290.825	4294393.076	3937	04-Nov-13	11042013-002.SSF	154161.955	10440
722290.824	4294393.069	3520	04-Nov-13	11042013-002.SSF	154163.111	10441
722290.826	4294393.051	3645	04-Nov-13	11042013-002.SSF	154163.986	10442
722290.826	4294393.048	3550	04-Nov-13	11042013-002.SSF	154165.038	10443
722290.829	4294393.034	3467	04-Nov-13	11042013-002.SSF	154166.007	10444
722290.834	4294393.044	3562	04-Nov-13	11042013-002.SSF	154167.014	10445
722290.836	4294393.015	3639	04-Nov-13	11042013-002.SSF	154168.0699	10446
722290.836	4294393.02	3734	04-Nov-13	11042013-002.SSF	154169.126	10447
722290.838	4294393.024	3720	04-Nov-13	11042013-002.SSF	154169.988	10448
722290.839	4294393.033	3652	04-Nov-13	11042013-002.SSF	154171.1	10449
722290.841	4294393.052	3802	04-Nov-13	11042013-002.SSF	154172.061	10450
722290.841	4294393.028	3908	04-Nov-13	11042013-002.SSF	154173.03	10451

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722290.849	4294393.049	3889	04-Nov-13	11042013-002.SSF	154175.066	10453
722290.853	4294393.044	3852	04-Nov-13	11042013-002.SSF	154176.006	10454
722290.868	4294393.064	3854	04-Nov-13	11042013-002.SSF	154177.097	10455
722290.883	4294393.087	3878	04-Nov-13	11042013-002.SSF	154178.014	10456
722290.894	4294393.124	3779	04-Nov-13	11042013-002.SSF	154179.166	10457
722290.901	4294393.123	3865	04-Nov-13	11042013-002.SSF	154180.021	10458
722290.914	4294393.152	3524	04-Nov-13	11042013-002.SSF	154180.996	10459
722290.919	4294393.147	3670	04-Nov-13	11042013-002.SSF	154181.993	10460
722290.975	4294393.263	3534	04-Nov-13	11042013-002.SSF	154182.9919	10461
722290.98	4294393.297	3788	04-Nov-13	11042013-002.SSF	154183.892	10462
722290.979	4294393.269	3630	04-Nov-13	11042013-002.SSF	154184.995	10463
722290.974	4294393.267	3872	04-Nov-13	11042013-002.SSF	154185.8929	10464
722290.969	4294393.251	3468	04-Nov-13	11042013-002.SSF	154187.2061	10465
722290.967	4294393.242	3353	04-Nov-13	11042013-002.SSF	154188.0229	10466
722290.951	4294393.251	3446	04-Nov-13	11042013-002.SSF	154189.077	10467
722290.942	4294393.252	3701	04-Nov-13	11042013-002.SSF	154189.894	10468
722290.936	4294393.24	3619	04-Nov-13	11042013-002.SSF	154191.076	10469
722290.931	4294393.219	3828	04-Nov-13	11042013-002.SSF	154191.942	10470
722290.928	4294393.214	3773	04-Nov-13	11042013-002.SSF	154193.1169	10471
722290.922	4294393.184	3855	04-Nov-13	11042013-002.SSF	154193.9611	10472
722290.91	4294393.155	3788	04-Nov-13	11042013-002.SSF	154195.069	10473
722290.904	4294393.144	3811	04-Nov-13	11042013-002.SSF	154195.988	10474
722290.901	4294393.111	3733	04-Nov-13	11042013-002.SSF	154197.1121	10475
722290.897	4294393.093	3780	04-Nov-13	11042013-002.SSF	154197.991	10476
722290.89	4294393.092	3686	04-Nov-13	11042013-002.SSF	154199.051	10477
722290.889	4294393.071	4016	04-Nov-13	11042013-002.SSF	154199.934	10478
722290.893	4294393.043	3564	04-Nov-13	11042013-002.SSF	154201.084	10479
722290.896	4294393.024	3504	04-Nov-13	11042013-002.SSF	154201.9	10480
722290.895	4294393.039	3374	04-Nov-13	11042013-002.SSF	154203.053	10481
722290.893	4294393.047	3630	04-Nov-13	11042013-002.SSF	154204.025	10482
722290.898	4294393.035	3774	04-Nov-13	11042013-002.SSF	154205.084	10483
722290.901	4294393.089	3975	04-Nov-13	11042013-002.SSF	154205.994	10484
722290.9	4294393.103	3998	04-Nov-13	11042013-002.SSF	154207.057	10485
722290.908	4294393.107	4012	04-Nov-13	11042013-002.SSF	154207.981	10486
722290.913	4294393.104	3524	04-Nov-13	11042013-002.SSF	154209.022	10487
722290.91	4294393.097	3609	04-Nov-13	11042013-002.SSF	154209.941	10488
722290.904	4294393.091	3995	04-Nov-13	11042013-002.SSF	154211.1071	10489
722290.902	4294393.08	3882	04-Nov-13	11042013-002.SSF	154212.031	10490
722290.901	4294393.08	4103	04-Nov-13	11042013-002.SSF	154213.09	10491
722290.899	4294393.078	4131	04-Nov-13	11042013-002.SSF	154214.016	10492
722290.893	4294393.066	4131	04-Nov-13	11042013-002.SSF	154215.144	10493
722290.884	4294393.061	3793	04-Nov-13	11042013-002.SSF	154215.991	10494
722290.878	4294393.067	3671	04-Nov-13	11042013-002.SSF	154218	10496
722290.887	4294393.044	3752	04-Nov-13	11042013-002.SSF	154219.149	10497
722290.898	4294393.031	3746	04-Nov-13	11042013-002.SSF	154220.032	10498
722290.904	4294393.026	3554	04-Nov-13	11042013-002.SSF	154221.1429	10499

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722290.903	4294393.033	3844	04-Nov-13	11042013-002.SSF	154221.965	10500
722290.901	4294393.026	3782	04-Nov-13	11042013-002.SSF	154223.031	10501
722290.901	4294393.048	3897	04-Nov-13	11042013-002.SSF	154223.951	10502
722290.903	4294393.028	3580	04-Nov-13	11042013-002.SSF	154225.076	10503
722290.9	4294392.997	3517	04-Nov-13	11042013-002.SSF	154227.1949	10505
722290.891	4294392.968	3673	04-Nov-13	11042013-002.SSF	154227.991	10506
722290.886	4294392.96	3618	04-Nov-13	11042013-002.SSF	154229.106	10507
722290.886	4294392.972	3235	04-Nov-13	11042013-002.SSF	154229.964	10508
722290.884	4294392.967	3290	04-Nov-13	11042013-002.SSF	154231.105	10509
722290.883	4294392.94	3425	04-Nov-13	11042013-002.SSF	154231.9	10510
722290.885	4294392.939	3284	04-Nov-13	11042013-002.SSF	154233.144	10511
722290.886	4294392.932	3167	04-Nov-13	11042013-002.SSF	154233.911	10512
722290.886	4294392.91	3649	04-Nov-13	11042013-002.SSF	154235.073	10513
722290.886	4294392.919	3410	04-Nov-13	11042013-002.SSF	154236.014	10514
722290.881	4294392.909	3725	04-Nov-13	11042013-002.SSF	154237.015	10515
722290.872	4294392.935	3753	04-Nov-13	11042013-002.SSF	154238.024	10516
722290.872	4294392.95	3821	04-Nov-13	11042013-002.SSF	154239.0699	10517
722290.879	4294392.95	4069	04-Nov-13	11042013-002.SSF	154239.962	10518
722290.881	4294392.943	3661	04-Nov-13	11042013-002.SSF	154241.103	10519
722290.873	4294392.944	3582	04-Nov-13	11042013-002.SSF	154242.115	10520
722290.865	4294392.947	3687	04-Nov-13	11042013-002.SSF	154243.1379	10521
722290.861	4294392.938	3184	04-Nov-13	11042013-002.SSF	154243.974	10522
722290.852	4294392.925	3426	04-Nov-13	11042013-002.SSF	154245	10523
722290.853	4294392.917	3974	04-Nov-13	11042013-002.SSF	154245.868	10524
722290.855	4294392.925	3758	04-Nov-13	11042013-002.SSF	154247.087	10525
722290.855	4294392.904	3869	04-Nov-13	11042013-002.SSF	154247.874	10526
722290.855	4294392.894	3691	04-Nov-13	11042013-002.SSF	154248.925	10527
722290.855	4294392.917	3516	04-Nov-13	11042013-002.SSF	154249.886	10528
722290.856	4294392.92	3613	04-Nov-13	11042013-002.SSF	154250.9301	10529
722290.86	4294392.938	3562	04-Nov-13	11042013-002.SSF	154251.882	10530
722290.867	4294392.922	3466	04-Nov-13	11042013-002.SSF	154253.105	10531
722290.87	4294392.933	3382	04-Nov-13	11042013-002.SSF	154253.939	10532
722290.876	4294392.922	3800	04-Nov-13	11042013-002.SSF	154255.038	10533
722290.887	4294392.93	3885	04-Nov-13	11042013-002.SSF	154255.989	10534
722290.892	4294392.935	3722	04-Nov-13	11042013-002.SSF	154257.033	10535
722290.896	4294392.948	3174	04-Nov-13	11042013-002.SSF	154258.05	10536
722290.901	4294392.947	3510	04-Nov-13	11042013-002.SSF	154259.058	10537
722290.904	4294392.927	3699	04-Nov-13	11042013-002.SSF	154260	10538
722290.907	4294392.931	3611	04-Nov-13	11042013-002.SSF	154261.163	10539
722290.908	4294392.94	3583	04-Nov-13	11042013-002.SSF	154261.981	10540
722290.904	4294392.927	3485	04-Nov-13	11042013-002.SSF	154263.08	10541
722290.899	4294392.935	3558	04-Nov-13	11042013-002.SSF	154263.98	10542
722290.9	4294392.939	3914	04-Nov-13	11042013-002.SSF	154265.1219	10543
722290.906	4294392.941	3979	04-Nov-13	11042013-002.SSF	154265.947	10544
722290.91	4294392.956	3940	04-Nov-13	11042013-002.SSF	154267.058	10545
722290.911	4294392.93	3874	04-Nov-13	11042013-002.SSF	154268.014	10546
722290.918	4294392.935	4144	04-Nov-13	11042013-002.SSF	154269.153	10547

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722290.921	4294392.965	3681	04-Nov-13	11042013-002.SSF	154269.965	10548
722290.925	4294393.003	3608	04-Nov-13	11042013-002.SSF	154271.063	10549
722290.923	4294392.978	3912	04-Nov-13	11042013-002.SSF	154272.066	10550
722290.925	4294392.991	3865	04-Nov-13	11042013-002.SSF	154272.925	10551
722290.921	4294392.976	3959	04-Nov-13	11042013-002.SSF	154273.915	10552
722290.925	4294392.98	3674	04-Nov-13	11042013-002.SSF	154274.911	10553
722290.928	4294392.982	3687	04-Nov-13	11042013-002.SSF	154275.9091	10554
722290.923	4294393	3986	04-Nov-13	11042013-002.SSF	154277.041	10555
722290.919	4294393.009	4027	04-Nov-13	11042013-002.SSF	154277.886	10556
722290.914	4294393.03	3705	04-Nov-13	11042013-002.SSF	154279.033	10557
722290.912	4294393.024	3689	04-Nov-13	11042013-002.SSF	154279.886	10558
722290.908	4294393.05	3710	04-Nov-13	11042013-002.SSF	154281.124	10559
722290.907	4294393.044	3737	04-Nov-13	11042013-002.SSF	154281.954	10560
722290.905	4294393.062	3429	04-Nov-13	11042013-002.SSF	154283.157	10561
722290.9	4294393.047	3496	04-Nov-13	11042013-002.SSF	154283.896	10562
722290.897	4294393.043	3234	04-Nov-13	11042013-002.SSF	154284.4	10563
722290.891	4294393.055	3334	04-Nov-13	11042013-002.SSF	154285.827	10564
722290.878	4294393.044	3675	04-Nov-13	11042013-002.SSF	154287.063	10565
722290.89	4294393.036	3665	04-Nov-13	11042013-002.SSF	154287.903	10566
722290.891	4294393.004	3981	04-Nov-13	11042013-002.SSF	154289.058	10567
722290.88	4294392.988	3612	04-Nov-13	11042013-002.SSF	154289.8831	10568
722290.87	4294392.941	3442	04-Nov-13	11042013-002.SSF	154291.069	10569
722290.874	4294392.932	3391	04-Nov-13	11042013-002.SSF	154291.951	10570
722290.877	4294392.948	3760	04-Nov-13	11042013-002.SSF	154293.067	10571
722290.87	4294392.911	4215	04-Nov-13	11042013-002.SSF	154293.975	10572
722290.881	4294392.902	4110	04-Nov-13	11042013-002.SSF	154294.972	10573
722290.889	4294392.923	3992	04-Nov-13	11042013-002.SSF	154295.884	10574
722290.891	4294392.915	4128	04-Nov-13	11042013-002.SSF	154297.046	10575
722290.898	4294392.915	4032	04-Nov-13	11042013-002.SSF	154297.882	10576
722290.916	4294392.915	3940	04-Nov-13	11042013-002.SSF	154299.027	10577
722290.918	4294392.909	3761	04-Nov-13	11042013-002.SSF	154299.8831	10578
722290.922	4294392.906	3968	04-Nov-13	11042013-002.SSF	154301.1071	10579
722290.929	4294392.918	3799	04-Nov-13	11042013-002.SSF	154301.99	10580
722290.94	4294392.905	3772	04-Nov-13	11042013-002.SSF	154303.057	10581
722290.941	4294392.898	3367	04-Nov-13	11042013-002.SSF	154304.026	10582
722290.942	4294392.892	3618	04-Nov-13	11042013-002.SSF	154305.116	10583
722290.94	4294392.896	3325	04-Nov-13	11042013-002.SSF	154306.006	10584
722290.95	4294392.895	3678	04-Nov-13	11042013-002.SSF	154307.094	10585
722290.959	4294392.901	3996	04-Nov-13	11042013-002.SSF	154307.938	10586
722290.962	4294392.899	4093	04-Nov-13	11042013-002.SSF	154309.052	10587
722290.963	4294392.903	3907	04-Nov-13	11042013-002.SSF	154309.903	10588
722290.953	4294392.913	3585	04-Nov-13	11042013-002.SSF	154310.95	10589
722290.95	4294392.939	3404	04-Nov-13	11042013-002.SSF	154311.884	10590
722290.948	4294392.915	3737	04-Nov-13	11042013-002.SSF	154312.9821	10591
722290.945	4294392.94	3924	04-Nov-13	11042013-002.SSF	154313.8831	10592
722290.943	4294392.922	4075	04-Nov-13	11042013-002.SSF	154315.104	10593
722290.941	4294392.923	3739	04-Nov-13	11042013-002.SSF	154315.978	10594

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722290.938	4294392.925	3401	04-Nov-13	11042013-002.SSF	154316.975	10595
722290.933	4294392.946	3353	04-Nov-13	11042013-002.SSF	154317.9301	10596
722290.941	4294392.959	3596	04-Nov-13	11042013-002.SSF	154319.0959	10597
722290.947	4294392.932	3719	04-Nov-13	11042013-002.SSF	154320.96	10599
722290.938	4294392.957	3712	04-Nov-13	11042013-002.SSF	154321.844	10600
722290.927	4294392.965	3858	04-Nov-13	11042013-002.SSF	154323.0909	10601
722290.916	4294392.973	3482	04-Nov-13	11042013-002.SSF	154323.899	10602
722290.9	4294392.994	3339	04-Nov-13	11042013-002.SSF	154324.928	10603
722290.893	4294392.983	3520	04-Nov-13	11042013-002.SSF	154325.933	10604
722290.898	4294392.981	3832	04-Nov-13	11042013-002.SSF	154326.926	10605
722290.901	4294392.982	3686	04-Nov-13	11042013-002.SSF	154327.905	10606
722290.899	4294392.976	3791	04-Nov-13	11042013-002.SSF	154329.04	10607
722290.902	4294392.978	3767	04-Nov-13	11042013-002.SSF	154329.902	10608
722290.909	4294392.986	3491	04-Nov-13	11042013-002.SSF	154330.9091	10609
722290.917	4294392.975	3606	04-Nov-13	11042013-002.SSF	154331.868	10610
722290.916	4294392.977	3828	04-Nov-13	11042013-002.SSF	154333.006	10611
722290.914	4294392.979	3531	04-Nov-13	11042013-002.SSF	154333.804	10612
722290.912	4294392.972	3490	04-Nov-13	11042013-002.SSF	154334.902	10613
722290.917	4294392.984	3216	04-Nov-13	11042013-002.SSF	154335.8831	10614
722290.915	4294392.974	3129	04-Nov-13	11042013-002.SSF	154336.931	10615
722290.912	4294392.987	3387	04-Nov-13	11042013-002.SSF	154337.839	10616
722290.908	4294392.965	4043	04-Nov-13	11042013-002.SSF	154338.934	10617
722290.904	4294392.964	3616	04-Nov-13	11042013-002.SSF	154339.842	10618
722290.896	4294392.96	3609	04-Nov-13	11042013-002.SSF	154340.918	10619
722290.893	4294392.977	3365	04-Nov-13	11042013-002.SSF	154341.91	10620
722290.895	4294392.986	3475	04-Nov-13	11042013-002.SSF	154342.8979	10621
722290.897	4294392.976	3500	04-Nov-13	11042013-002.SSF	154343.903	10622
722290.892	4294392.984	3543	04-Nov-13	11042013-002.SSF	154344.905	10623
722290.886	4294393	3455	04-Nov-13	11042013-002.SSF	154345.916	10624
722290.881	4294393.01	3136	04-Nov-13	11042013-002.SSF	154346.917	10625
722290.882	4294392.998	3061	04-Nov-13	11042013-002.SSF	154347.897	10626
722290.88	4294393.01	3364	04-Nov-13	11042013-002.SSF	154349.052	10627
722290.873	4294393.012	3445	04-Nov-13	11042013-002.SSF	154349.9399	10628
722290.87	4294393.019	3295	04-Nov-13	11042013-002.SSF	154350.942	10629
722290.86	4294393.025	3736	04-Nov-13	11042013-002.SSF	154351.842	10630
722290.857	4294393.008	3751	04-Nov-13	11042013-002.SSF	154352.962	10631
722290.863	4294392.983	3475	04-Nov-13	11042013-002.SSF	154353.828	10632
722290.869	4294392.964	3829	04-Nov-13	11042013-002.SSF	154354.903	10633
722290.871	4294392.969	3481	04-Nov-13	11042013-002.SSF	154355.9139	10634
722290.878	4294392.953	3698	04-Nov-13	11042013-002.SSF	154357.052	10635
722290.879	4294392.968	3670	04-Nov-13	11042013-002.SSF	154357.849	10636
722290.877	4294392.982	3422	04-Nov-13	11042013-002.SSF	154359.095	10637
722290.884	4294392.989	3286	04-Nov-13	11042013-002.SSF	154359.913	10638
722291.074	4294392.731	3434	04-Nov-13	11042013-002.SSF	154361.085	10639
722291.303	4294392.398	3274	04-Nov-13	11042013-002.SSF	154361.941	10640
722291.895	4294391.464	3694	04-Nov-13	11042013-002.SSF	154363.004	10641
722292.924	4294390.013	3930	04-Nov-13	11042013-002.SSF	154363.906	10642

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722294.526	4294387.859	3605	04-Nov-13	11042013-002.SSF	154364.983	10643
722295.897	4294385.976	4076	04-Nov-13	11042013-002.SSF	154365.838	10644
722297.458	4294383.391	3980	04-Nov-13	11042013-002.SSF	154366.907	10645
722298.417	4294380.847	3581	04-Nov-13	11042013-002.SSF	154367.855	10646
722298.479	4294377.344	3657	04-Nov-13	11042013-002.SSF	154369.045	10647
722297.641	4294375.023	3902	04-Nov-13	11042013-002.SSF	154369.808	10648
722295.496	4294371.853	4257	04-Nov-13	11042013-002.SSF	154370.925	10649
722292.864	4294369.064	3954	04-Nov-13	11042013-002.SSF	154371.903	10650
722289.44	4294365.711	3949	04-Nov-13	11042013-002.SSF	154373.0649	10651
722287.033	4294363.129	3879	04-Nov-13	11042013-002.SSF	154373.906	10652
722283.668	4294359.466	3607	04-Nov-13	11042013-002.SSF	154375.085	10653
722281.104	4294357.055	4203	04-Nov-13	11042013-002.SSF	154375.953	10654
722277.631	4294354.974	4187	04-Nov-13	11042013-002.SSF	154377.026	10655
722274.569	4294353.896	4027	04-Nov-13	11042013-002.SSF	154377.946	10656
722270.89	4294353.352	4320	04-Nov-13	11042013-002.SSF	154379.005	10657
722267.587	4294353.343	3967	04-Nov-13	11042013-002.SSF	154379.901	10658
722263.674	4294353.736	4204	04-Nov-13	11042013-002.SSF	154380.9449	10659
722260.301	4294354.284	3835	04-Nov-13	11042013-002.SSF	154381.865	10660
722256.423	4294354.919	3844	04-Nov-13	11042013-002.SSF	154382.989	10661
722253.519	4294355.278	4030	04-Nov-13	11042013-002.SSF	154383.864	10662
722249.72	4294355.549	3902	04-Nov-13	11042013-002.SSF	154385.076	10663
722247.083	4294355.703	4144	04-Nov-13	11042013-002.SSF	154385.973	10664
722244.287	4294355.866	3764	04-Nov-13	11042013-002.SSF	154387.0551	10665
722242.093	4294356.064	3489	04-Nov-13	11042013-002.SSF	154387.947	10666
722240.159	4294356.985	3410	04-Nov-13	11042013-002.SSF	154389.059	10667
722239.158	4294357.899	3800	04-Nov-13	11042013-002.SSF	154389.891	10668
722238.009	4294359.062	4028	04-Nov-13	11042013-002.SSF	154391.02	10669
722237.404	4294359.75	4058	04-Nov-13	11042013-002.SSF	154391.881	10670
722236.882	4294360.272	4405	04-Nov-13	11042013-002.SSF	154392.946	10671
722236.695	4294360.407	4630	04-Nov-13	11042013-002.SSF	154393.902	10672
722236.657	4294360.437	4472	04-Nov-13	11042013-002.SSF	154394.913	10673
722236.639	4294360.456	4690	04-Nov-13	11042013-002.SSF	154395.826	10674
722236.57	4294360.485	4843	04-Nov-13	11042013-002.SSF	154396.928	10675
722236.542	4294360.446	5042	04-Nov-13	11042013-002.SSF	154397.828	10676
722236.439	4294360.445	5116	04-Nov-13	11042013-002.SSF	154399.025	10677
722236.372	4294360.427	4730	04-Nov-13	11042013-002.SSF	154399.859	10678
722236.338	4294360.494	4843	04-Nov-13	11042013-002.SSF	154400.96	10679
722236.355	4294360.502	5019	04-Nov-13	11042013-002.SSF	154401.8101	10680
722236.259	4294360.576	4878	04-Nov-13	11042013-002.SSF	154402.975	10681
722236.217	4294360.618	4836	04-Nov-13	11042013-002.SSF	154403.8831	10682
722236.195	4294360.651	4813	04-Nov-13	11042013-002.SSF	154404.947	10683
722236.209	4294360.639	5205	04-Nov-13	11042013-002.SSF	154405.803	10684
722236.222	4294360.637	4810	04-Nov-13	11042013-002.SSF	154406.875	10685
722236.203	4294360.561	5068	04-Nov-13	11042013-002.SSF	154407.873	10686
722236.211	4294360.436	4845	04-Nov-13	11042013-002.SSF	154409.012	10687
722236.201	4294360.385	5021	04-Nov-13	11042013-002.SSF	154409.876	10688
722236.19	4294360.338	5246	04-Nov-13	11042013-002.SSF	154411.038	10689

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722236.185	4294360.301	4991	04-Nov-13	11042013-002.SSF	154411.9449	10690
722236.174	4294360.246	4900	04-Nov-13	11042013-002.SSF	154413.088	10691
722236.154	4294360.212	5133	04-Nov-13	11042013-002.SSF	154413.946	10692
722236.141	4294360.188	5227	04-Nov-13	11042013-002.SSF	154414.948	10693
722236.126	4294360.191	4950	04-Nov-13	11042013-002.SSF	154415.932	10694
722236.153	4294360.143	4899	04-Nov-13	11042013-002.SSF	154417.064	10695
722236.192	4294360.11	4706	04-Nov-13	11042013-002.SSF	154417.858	10696
722236.279	4294360.106	4642	04-Nov-13	11042013-002.SSF	154418.939	10697
722236.208	4294360.14	4838	04-Nov-13	11042013-002.SSF	154419.874	10698
722236.076	4294360.385	5324	04-Nov-13	11042013-002.SSF	154420.91	10699
722235.972	4294360.457	5042	04-Nov-13	11042013-002.SSF	154421.801	10700
722235.983	4294360.335	4921	04-Nov-13	11042013-002.SSF	154422.885	10701
722236.205	4294360.341	4665	04-Nov-13	11042013-002.SSF	154423.8781	10702
722236.313	4294360.516	4769	04-Nov-13	11042013-002.SSF	154424.923	10703
722236.26	4294360.577	5030	04-Nov-13	11042013-002.SSF	154425.8149	10704
722236.091	4294360.7	5537	04-Nov-13	11042013-002.SSF	154426.8831	10705
722235.978	4294360.706	5169	04-Nov-13	11042013-002.SSF	154427.8879	10706
722235.723	4294360.555	5030	04-Nov-13	11042013-002.SSF	154428.913	10707
722235.559	4294360.541	5124	04-Nov-13	11042013-002.SSF	154429.796	10708
722235.325	4294360.59	5252	04-Nov-13	11042013-002.SSF	154430.925	10709
722235.238	4294360.568	5257	04-Nov-13	11042013-002.SSF	154431.8199	10710
722235.366	4294360.412	5132	04-Nov-13	11042013-002.SSF	154432.927	10711
722235.397	4294360.344	5392	04-Nov-13	11042013-002.SSF	154433.826	10712
722235.363	4294360.322	5155	04-Nov-13	11042013-002.SSF	154434.932	10713
722235.326	4294360.286	4932	04-Nov-13	11042013-002.SSF	154435.829	10714
722235.226	4294360.279	4672	04-Nov-13	11042013-002.SSF	154436.9351	10715
722235.011	4294360.426	4915	04-Nov-13	11042013-002.SSF	154437.8311	10716
722235.089	4294360.586	4617	04-Nov-13	11042013-002.SSF	154438.9351	10717
722234.886	4294360.609	4727	04-Nov-13	11042013-002.SSF	154439.834	10718
722234.802	4294360.498	5164	04-Nov-13	11042013-002.SSF	154440.925	10719
722234.915	4294360.227	4802	04-Nov-13	11042013-002.SSF	154441.801	10720
722234.625	4294360.289	4711	04-Nov-13	11042013-002.SSF	154443.053	10721
722234.517	4294360.364	4682	04-Nov-13	11042013-002.SSF	154443.811	10722
722234.476	4294360.429	4659	04-Nov-13	11042013-002.SSF	154444.905	10723
722234.59	4294360.269	4653	04-Nov-13	11042013-002.SSF	154445.9091	10724
722234.548	4294360.339	5160	04-Nov-13	11042013-002.SSF	154447.106	10725
722234.339	4294360.647	4807	04-Nov-13	11042013-002.SSF	154447.913	10726
722234.13	4294360.968	4804	04-Nov-13	11042013-002.SSF	154448.988	10727
722234.171	4294360.902	4839	04-Nov-13	11042013-002.SSF	154449.9139	10728
722234.236	4294360.904	4635	04-Nov-13	11042013-002.SSF	154450.927	10729
722234.183	4294360.929	4954	04-Nov-13	11042013-002.SSF	154451.847	10730
722234.297	4294360.842	5329	04-Nov-13	11042013-002.SSF	154452.941	10731
722234.42	4294360.848	5352	04-Nov-13	11042013-002.SSF	154453.925	10732
722234.509	4294360.849	4923	04-Nov-13	11042013-002.SSF	154454.999	10733
722234.528	4294360.827	4967	04-Nov-13	11042013-002.SSF	154455.816	10734
722234.547	4294360.692	5103	04-Nov-13	11042013-002.SSF	154456.924	10735
722234.568	4294360.581	4596	04-Nov-13	11042013-002.SSF	154457.766	10736

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.572	4294360.625	4872	04-Nov-13	11042013-002.SSF	154458.926	10737
722234.502	4294360.774	5223	04-Nov-13	11042013-002.SSF	154459.85	10738
722234.422	4294360.88	5285	04-Nov-13	11042013-002.SSF	154461.054	10739
722234.485	4294360.96	4833	04-Nov-13	11042013-002.SSF	154461.929	10740
722234.521	4294361.15	4578	04-Nov-13	11042013-002.SSF	154463.038	10741
722234.559	4294361.185	4518	04-Nov-13	11042013-002.SSF	154463.988	10742
722234.618	4294361.152	4274	04-Nov-13	11042013-002.SSF	154464.985	10743
722234.669	4294361.199	4886	04-Nov-13	11042013-002.SSF	154465.8311	10744
722234.727	4294361.269	5351	04-Nov-13	11042013-002.SSF	154467.051	10745
722234.805	4294361.362	5605	04-Nov-13	11042013-002.SSF	154467.869	10746
722234.976	4294361.389	5830	04-Nov-13	11042013-002.SSF	154469.022	10747
722235.006	4294361.292	6114	04-Nov-13	11042013-002.SSF	154469.869	10748
722234.984	4294361.381	6522	04-Nov-13	11042013-002.SSF	154471.027	10749
722234.979	4294361.469	6946	04-Nov-13	11042013-002.SSF	154471.932	10750
722234.915	4294361.606	6734	04-Nov-13	11042013-002.SSF	154472.962	10751
722234.92	4294361.61	6570	04-Nov-13	11042013-002.SSF	154473.859	10752
722234.918	4294361.579	6058	04-Nov-13	11042013-002.SSF	154475.006	10753
722234.948	4294361.483	6783	04-Nov-13	11042013-002.SSF	154475.7889	10754
722234.866	4294361.461	6822	04-Nov-13	11042013-002.SSF	154476.8879	10755
722234.816	4294361.461	6740	04-Nov-13	11042013-002.SSF	154477.7889	10756
722234.834	4294361.467	6581	04-Nov-13	11042013-002.SSF	154478.889	10757
722235.194	4294361.011	6275	04-Nov-13	11042013-002.SSF	154486.8719	10758
722234.635	4294360.458	6410	04-Nov-13	11042013-002.SSF	154498.892	10759
722234.691	4294360.4	6230	04-Nov-13	11042013-002.SSF	154499.9	10760
722234.761	4294360.271	6429	04-Nov-13	11042013-002.SSF	154500.873	10761
722234.699	4294360.309	6804	04-Nov-13	11042013-002.SSF	154501.797	10762
722234.721	4294360.319	6812	04-Nov-13	11042013-002.SSF	154502.87	10763
722234.679	4294360.345	6689	04-Nov-13	11042013-002.SSF	154503.869	10764
722234.679	4294360.306	6927	04-Nov-13	11042013-002.SSF	154504.902	10765
722234.682	4294360.267	6799	04-Nov-13	11042013-002.SSF	154505.803	10766
722234.636	4294360.273	6164	04-Nov-13	11042013-002.SSF	154506.912	10767
722234.595	4294360.272	6377	04-Nov-13	11042013-002.SSF	154507.8	10768
722234.594	4294360.284	6242	04-Nov-13	11042013-002.SSF	154508.934	10769
722234.57	4294360.3	6841	04-Nov-13	11042013-002.SSF	154509.8571	10770
722234.574	4294360.252	6053	04-Nov-13	11042013-002.SSF	154510.934	10771
722234.589	4294360.29	6030	04-Nov-13	11042013-002.SSF	154511.834	10772
722234.597	4294360.205	6631	04-Nov-13	11042013-002.SSF	154512.907	10773
722234.518	4294360.24	6663	04-Nov-13	11042013-002.SSF	154513.791	10774
722234.532	4294360.261	6717	04-Nov-13	11042013-002.SSF	154514.917	10775
722234.566	4294360.224	6328	04-Nov-13	11042013-002.SSF	154515.819	10776
722234.523	4294360.171	6881	04-Nov-13	11042013-002.SSF	154517.8361	10777
722234.471	4294360.207	6645	04-Nov-13	11042013-002.SSF	154518.892	10778
722234.436	4294360.261	6513	04-Nov-13	11042013-002.SSF	154519.839	10779
722234.337	4294360.396	6581	04-Nov-13	11042013-002.SSF	154520.955	10780
722234.315	4294360.456	6282	04-Nov-13	11042013-002.SSF	154521.799	10781
722234.295	4294360.529	6676	04-Nov-13	11042013-002.SSF	154522.845	10782
722234.33	4294360.518	6417	04-Nov-13	11042013-002.SSF	154523.8051	10783

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.441	4294360.661	6506	04-Nov-13	11042013-002.SSF	154524.905	10784
722234.541	4294360.741	6899	04-Nov-13	11042013-002.SSF	154525.728	10785
722234.681	4294360.71	6536	04-Nov-13	11042013-002.SSF	154526.92	10786
722234.303	4294360.824	6222	04-Nov-13	11042013-002.SSF	154528.871	10787
722234.238	4294360.828	6200	04-Nov-13	11042013-002.SSF	154529.751	10788
722234.27	4294360.752	6262	04-Nov-13	11042013-002.SSF	154530.9871	10789
722234.293	4294360.731	5990	04-Nov-13	11042013-002.SSF	154531.892	10790
722234.359	4294360.73	6268	04-Nov-13	11042013-002.SSF	154533.89	10792
722234.403	4294360.548	7103	04-Nov-13	11042013-002.SSF	154534.949	10793
722234.504	4294360.191	6950	04-Nov-13	11042013-002.SSF	154535.825	10794
722234.653	4294359.869	6422	04-Nov-13	11042013-002.SSF	154536.925	10795
722234.872	4294359.996	5817	04-Nov-13	11042013-002.SSF	154537.817	10796
722234.942	4294360.012	5552	04-Nov-13	11042013-002.SSF	154538.925	10797
722234.981	4294360.181	5688	04-Nov-13	11042013-002.SSF	154539.8051	10798
722235.422	4294360.555	5569	04-Nov-13	11042013-002.SSF	154540.931	10799
722235.88	4294360.981	6822	04-Nov-13	11042013-002.SSF	154541.807	10800
722236.1	4294361.405	7520	04-Nov-13	11042013-002.SSF	154542.959	10801
722236.54	4294361.915	8242	04-Nov-13	11042013-002.SSF	154543.8409	10802
722237.063	4294362.522	8979	04-Nov-13	11042013-002.SSF	154544.973	10803
722237.606	4294363.454	9423	04-Nov-13	11042013-002.SSF	154546.012	10804
722238.173	4294364.065	9043	04-Nov-13	11042013-002.SSF	154547.017	10805
722238.396	4294364.655	9151	04-Nov-13	11042013-002.SSF	154547.858	10806
722238.669	4294365.219	8770	04-Nov-13	11042013-002.SSF	154549.0861	10807
722238.92	4294365.241	8570	04-Nov-13	11042013-002.SSF	154549.9041	10808
722239.119	4294365.133	8616	04-Nov-13	11042013-002.SSF	154550.8719	10809
722239.465	4294365.129	8326	04-Nov-13	11042013-002.SSF	154551.856	10810
722239.889	4294365.438	8163	04-Nov-13	11042013-002.SSF	154552.864	10811
722239.855	4294365.697	8312	04-Nov-13	11042013-002.SSF	154553.8051	10812
722239.83	4294365.456	8890	04-Nov-13	11042013-002.SSF	154554.936	10813
722240.018	4294364.963	9201	04-Nov-13	11042013-002.SSF	154555.787	10814
722240.118	4294364.05	9660	04-Nov-13	11042013-002.SSF	154556.853	10815
722240.086	4294363.256	9386	04-Nov-13	11042013-002.SSF	154557.826	10816
722240.036	4294362.238	8542	04-Nov-13	11042013-002.SSF	154558.889	10817
722240.086	4294361.806	8592	04-Nov-13	11042013-002.SSF	154559.769	10818
722239.947	4294361.787	8688	04-Nov-13	11042013-002.SSF	154560.943	10819
722239.347	4294362.076	8689	04-Nov-13	11042013-002.SSF	154561.8879	10820
722238.896	4294362.369	8488	04-Nov-13	11042013-002.SSF	154562.88	10821
722239.093	4294362.823	8876	04-Nov-13	11042013-002.SSF	154563.8459	10822
722239.319	4294363.588	8480	04-Nov-13	11042013-002.SSF	154564.8821	10823
722239.232	4294364.475	8355	04-Nov-13	11042013-002.SSF	154565.793	10824
722239.234	4294365.347	8810	04-Nov-13	11042013-002.SSF	154566.9089	10825
722239.093	4294365.931	8623	04-Nov-13	11042013-002.SSF	154567.856	10826
722239.27	4294366.4	8953	04-Nov-13	11042013-002.SSF	154568.916	10827
722239.285	4294366.704	8531	04-Nov-13	11042013-002.SSF	154569.7849	10828
722239.393	4294367.261	8443	04-Nov-13	11042013-002.SSF	154570.97	10829
722239.521	4294367.503	8754	04-Nov-13	11042013-002.SSF	154571.8579	10830
722239.776	4294367.525	9064	04-Nov-13	11042013-002.SSF	154572.8889	10831

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722239.792	4294367.522	9246	04-Nov-13	11042013-002.SSF	154573.8621	10832
722239.868	4294367.52	8778	04-Nov-13	11042013-002.SSF	154574.97	10833
722239.362	4294367.206	8365	04-Nov-13	11042013-002.SSF	154575.771	10834
722238.861	4294366.574	7833	04-Nov-13	11042013-002.SSF	154576.8611	10835
722238.474	4294365.824	7811	04-Nov-13	11042013-002.SSF	154577.8269	10836
722238.499	4294364.867	7828	04-Nov-13	11042013-002.SSF	154578.8269	10837
722238.909	4294364.363	7943	04-Nov-13	11042013-002.SSF	154579.8279	10838
722239.172	4294364.574	8270	04-Nov-13	11042013-002.SSF	154580.8311	10839
722239.437	4294364.837	8807	04-Nov-13	11042013-002.SSF	154581.8291	10840
722238.79	4294364.642	8989	04-Nov-13	11042013-002.SSF	154582.8899	10841
722238.56	4294364.225	8836	04-Nov-13	11042013-002.SSF	154583.762	10842
722238.517	4294363.594	9305	04-Nov-13	11042013-002.SSF	154584.834	10843
722238.256	4294362.974	8601	04-Nov-13	11042013-002.SSF	154585.8269	10844
722237.988	4294362.219	8746	04-Nov-13	11042013-002.SSF	154586.8259	10845
722238.185	4294361.669	7889	04-Nov-13	11042013-002.SSF	154587.8291	10846
722238.878	4294361.446	7310	04-Nov-13	11042013-002.SSF	154588.8811	10847
722239.624	4294361.663	6984	04-Nov-13	11042013-002.SSF	154589.7749	10848
722240.588	4294362.33	6606	04-Nov-13	11042013-002.SSF	154590.877	10849
722241.238	4294363.005	6671	04-Nov-13	11042013-002.SSF	154591.864	10850
722241.473	4294363.817	7015	04-Nov-13	11042013-002.SSF	154592.8689	10851
722241.46	4294364.661	7890	04-Nov-13	11042013-002.SSF	154593.832	10852
722241.563	4294365.528	8263	04-Nov-13	11042013-002.SSF	154594.856	10853
722241.771	4294366.281	8090	04-Nov-13	11042013-002.SSF	154595.812	10854
722241.687	4294367.18	8241	04-Nov-13	11042013-002.SSF	154596.8921	10855
722241.556	4294368.004	7890	04-Nov-13	11042013-002.SSF	154597.792	10856
722241.609	4294368.873	8211	04-Nov-13	11042013-002.SSF	154598.884	10857
722241.447	4294369.498	8181	04-Nov-13	11042013-002.SSF	154599.74	10858
722241.534	4294370.116	8486	04-Nov-13	11042013-002.SSF	154600.9121	10859
722241.882	4294369.865	9468	04-Nov-13	11042013-002.SSF	154601.75	10860
722241.889	4294369.702	9211	04-Nov-13	11042013-002.SSF	154602.844	10861
722241.364	4294369.409	8541	04-Nov-13	11042013-002.SSF	154603.7981	10862
722240.768	4294368.721	8727	04-Nov-13	11042013-002.SSF	154604.855	10863
722240.62	4294368.08	8936	04-Nov-13	11042013-002.SSF	154605.772	10864
722240.535	4294367.213	8259	04-Nov-13	11042013-002.SSF	154606.863	10865
722240.489	4294366.577	7976	04-Nov-13	11042013-002.SSF	154607.7739	10866
722240.123	4294365.991	8184	04-Nov-13	11042013-002.SSF	154608.823	10867
722239.587	4294365.766	8211	04-Nov-13	11042013-002.SSF	154609.769	10868
722239.018	4294365.527	8413	04-Nov-13	11042013-002.SSF	154610.9009	10869
722238.715	4294365.5	8632	04-Nov-13	11042013-002.SSF	154611.8911	10870
722238.341	4294365.399	8043	04-Nov-13	11042013-002.SSF	154612.8721	10871
722238.331	4294365.461	7652	04-Nov-13	11042013-002.SSF	154613.8101	10872
722238.128	4294365.53	8324	04-Nov-13	11042013-002.SSF	154614.9441	10873
722237.997	4294365.437	8867	04-Nov-13	11042013-002.SSF	154615.781	10874
722238.153	4294365.281	8212	04-Nov-13	11042013-002.SSF	154616.863	10875
722238.29	4294365.163	8662	04-Nov-13	11042013-002.SSF	154617.731	10876
722238.24	4294365.406	8780	04-Nov-13	11042013-002.SSF	154618.821	10877
722238.714	4294365.521	8268	04-Nov-13	11042013-002.SSF	154619.7759	10878

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722239.31	4294365.871	8821	04-Nov-13	11042013-002.SSF	154620.9209	10879
722239.675	4294365.964	8494	04-Nov-13	11042013-002.SSF	154621.7629	10880
722239.935	4294366.057	8378	04-Nov-13	11042013-002.SSF	154622.8391	10881
722240.056	4294366.047	8125	04-Nov-13	11042013-002.SSF	154623.772	10882
722240.007	4294365.992	8043	04-Nov-13	11042013-002.SSF	154624.8201	10883
722240.231	4294366.344	7974	04-Nov-13	11042013-002.SSF	154625.781	10884
722240.539	4294366.672	7725	04-Nov-13	11042013-002.SSF	154626.8979	10885
722240.737	4294366.81	8418	04-Nov-13	11042013-002.SSF	154627.7571	10886
722240.898	4294366.88	8477	04-Nov-13	11042013-002.SSF	154628.8311	10887
722241.085	4294366.867	8301	04-Nov-13	11042013-002.SSF	154629.783	10888
722241.375	4294366.847	8419	04-Nov-13	11042013-002.SSF	154630.895	10889
722241.484	4294366.844	8493	04-Nov-13	11042013-002.SSF	154631.8359	10890
722241.507	4294366.843	7920	04-Nov-13	11042013-002.SSF	154632.853	10891
722241.637	4294366.891	8452	04-Nov-13	11042013-002.SSF	154633.8569	10892
722241.731	4294366.842	8744	04-Nov-13	11042013-002.SSF	154634.8491	10893
722241.776	4294366.813	8451	04-Nov-13	11042013-002.SSF	154635.769	10894
722241.831	4294366.8	9089	04-Nov-13	11042013-002.SSF	154636.8369	10895
722241.882	4294366.826	8652	04-Nov-13	11042013-002.SSF	154637.7729	10896
722241.801	4294366.806	8962	04-Nov-13	11042013-002.SSF	154638.8379	10897
722241.716	4294366.78	9308	04-Nov-13	11042013-002.SSF	154639.771	10898
722241.663	4294366.785	9413	04-Nov-13	11042013-002.SSF	154640.8291	10899
722241.671	4294366.805	8970	04-Nov-13	11042013-002.SSF	154641.7781	10900
722241.709	4294366.803	9560	04-Nov-13	11042013-002.SSF	154642.8921	10901
722241.834	4294366.86	9645	04-Nov-13	11042013-002.SSF	154643.7791	10902
722241.952	4294366.931	9010	04-Nov-13	11042013-002.SSF	154644.8921	10903
722241.914	4294366.977	9141	04-Nov-13	11042013-002.SSF	154645.7629	10904
722241.91	4294367.019	8209	04-Nov-13	11042013-002.SSF	154646.8669	10905
722241.944	4294367.047	7955	04-Nov-13	11042013-002.SSF	154647.7649	10906
722241.953	4294367.126	8299	04-Nov-13	11042013-002.SSF	154648.8669	10907
722241.88	4294367.163	8598	04-Nov-13	11042013-002.SSF	154649.7671	10908
722242.003	4294367.261	8969	04-Nov-13	11042013-002.SSF	154650.804	10909
722242.115	4294367.387	8870	04-Nov-13	11042013-002.SSF	154651.751	10910
722242.114	4294367.503	8244	04-Nov-13	11042013-002.SSF	154652.7959	10911
722242.086	4294367.58	8192	04-Nov-13	11042013-002.SSF	154653.751	10912
722242.117	4294367.668	7901	04-Nov-13	11042013-002.SSF	154654.864	10913
722242.164	4294367.701	8441	04-Nov-13	11042013-002.SSF	154655.696	10914
722242.225	4294367.722	8491	04-Nov-13	11042013-002.SSF	154656.7729	10915
722242.297	4294367.726	8556	04-Nov-13	11042013-002.SSF	154657.708	10916
722242.311	4294367.706	8832	04-Nov-13	11042013-002.SSF	154658.78	10917
722242.325	4294367.695	9108	04-Nov-13	11042013-002.SSF	154659.783	10918
722242.293	4294367.67	9158	04-Nov-13	11042013-002.SSF	154660.916	10919
722242.267	4294367.639	9074	04-Nov-13	11042013-002.SSF	154661.769	10920
722242.279	4294367.625	9124	04-Nov-13	11042013-002.SSF	154662.875	10921
722242.297	4294367.616	8829	04-Nov-13	11042013-002.SSF	154663.772	10922
722242.349	4294367.606	8836	04-Nov-13	11042013-002.SSF	154664.874	10923
722242.272	4294367.572	8600	04-Nov-13	11042013-002.SSF	154665.728	10924
722242.348	4294367.585	8550	04-Nov-13	11042013-002.SSF	154666.8301	10925

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722242.333	4294367.569	8162	04-Nov-13	11042013-002.SSF	154667.728	10926
722242.314	4294367.571	7883	04-Nov-13	11042013-002.SSF	154668.832	10927
722242.243	4294367.551	7907	04-Nov-13	11042013-002.SSF	154669.7739	10928
722242.242	4294367.561	7950	04-Nov-13	11042013-002.SSF	154670.8679	10929
722242.221	4294367.551	7997	04-Nov-13	11042013-002.SSF	154671.832	10930
722242.236	4294367.56	7963	04-Nov-13	11042013-002.SSF	154672.844	10931
722242.254	4294367.566	8139	04-Nov-13	11042013-002.SSF	154673.783	10932
722242.363	4294367.604	8808	04-Nov-13	11042013-002.SSF	154674.895	10933
722242.422	4294367.62	8689	04-Nov-13	11042013-002.SSF	154675.729	10934
722242.495	4294367.645	8398	04-Nov-13	11042013-002.SSF	154676.8359	10935
722242.545	4294367.649	8601	04-Nov-13	11042013-002.SSF	154677.71	10936
722242.646	4294367.663	8753	04-Nov-13	11042013-002.SSF	154678.8379	10937
722242.677	4294367.657	8808	04-Nov-13	11042013-002.SSF	154679.707	10938
722242.734	4294367.66	8929	04-Nov-13	11042013-002.SSF	154680.8369	10939
722242.715	4294367.657	8630	04-Nov-13	11042013-002.SSF	154681.717	10940
722242.723	4294367.668	8559	04-Nov-13	11042013-002.SSF	154682.8091	10941
722242.721	4294367.664	8610	04-Nov-13	11042013-002.SSF	154683.6931	10942
722242.794	4294367.671	8773	04-Nov-13	11042013-002.SSF	154684.803	10943
722242.834	4294367.67	8707	04-Nov-13	11042013-002.SSF	154685.7271	10944
722242.951	4294367.715	8130	04-Nov-13	11042013-002.SSF	154686.8269	10945
722243.072	4294367.728	8555	04-Nov-13	11042013-002.SSF	154687.6951	10946
722243.054	4294367.66	8510	04-Nov-13	11042013-002.SSF	154688.8401	10947
722242.972	4294367.595	8252	04-Nov-13	11042013-002.SSF	154689.77	10948
722242.893	4294367.526	8684	04-Nov-13	11042013-002.SSF	154690.835	10949
722242.874	4294367.476	8425	04-Nov-13	11042013-002.SSF	154691.801	10950
722242.899	4294367.439	8129	04-Nov-13	11042013-002.SSF	154692.9099	10951
722242.902	4294367.403	8577	04-Nov-13	11042013-002.SSF	154693.7251	10952
722242.888	4294367.351	8725	04-Nov-13	11042013-002.SSF	154694.8301	10953
722242.862	4294367.313	8507	04-Nov-13	11042013-002.SSF	154695.77	10954
722242.804	4294367.265	9098	04-Nov-13	11042013-002.SSF	154696.8789	10955
722242.719	4294367.238	9775	04-Nov-13	11042013-002.SSF	154697.75	10956
722242.649	4294367.216	9503	04-Nov-13	11042013-002.SSF	154698.811	10957
722242.656	4294367.216	9200	04-Nov-13	11042013-002.SSF	154699.7781	10958
722242.666	4294367.196	8625	04-Nov-13	11042013-002.SSF	154700.8279	10959
722242.662	4294367.161	8752	04-Nov-13	11042013-002.SSF	154701.7271	10960
722242.629	4294367.092	8830	04-Nov-13	11042013-002.SSF	154702.8301	10961
722242.64	4294367.065	8844	04-Nov-13	11042013-002.SSF	154703.6731	10962
722242.645	4294367.071	8650	04-Nov-13	11042013-002.SSF	154704.7571	10963
722242.618	4294367.104	8788	04-Nov-13	11042013-002.SSF	154705.679	10964
722242.579	4294367.11	9008	04-Nov-13	11042013-002.SSF	154706.7729	10965
722242.563	4294367.091	9289	04-Nov-13	11042013-002.SSF	154707.7271	10966
722242.556	4294367.079	8840	04-Nov-13	11042013-002.SSF	154708.8311	10967
722242.545	4294367.049	8670	04-Nov-13	11042013-002.SSF	154709.729	10968
722242.552	4294367.016	9219	04-Nov-13	11042013-002.SSF	154710.8369	10969
722242.572	4294366.994	9131	04-Nov-13	11042013-002.SSF	154711.7581	10970
722242.553	4294366.988	8691	04-Nov-13	11042013-002.SSF	154712.844	10971
722242.548	4294366.993	8803	04-Nov-13	11042013-002.SSF	154713.7571	10972

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722242.575	4294366.988	9152	04-Nov-13	11042013-002.SSF	154714.877	10973
722242.56	4294366.989	9888	04-Nov-13	11042013-002.SSF	154715.8201	10974
722242.531	4294366.97	9582	04-Nov-13	11042013-002.SSF	154716.9441	10975
722242.489	4294366.949	9237	04-Nov-13	11042013-002.SSF	154717.8081	10976
722242.519	4294366.922	8586	04-Nov-13	11042013-002.SSF	154718.9419	10977
722242.52	4294366.925	8609	04-Nov-13	11042013-002.SSF	154719.842	10978
722242.539	4294366.938	9103	04-Nov-13	11042013-002.SSF	154720.832	10979
722242.544	4294366.941	8510	04-Nov-13	11042013-002.SSF	154721.7271	10980
722242.514	4294366.921	9279	04-Nov-13	11042013-002.SSF	154722.8491	10981
722242.493	4294366.917	9397	04-Nov-13	11042013-002.SSF	154723.749	10982
722242.468	4294366.918	9291	04-Nov-13	11042013-002.SSF	154724.8521	10983
722242.458	4294366.926	8893	04-Nov-13	11042013-002.SSF	154725.7739	10984
722242.417	4294366.932	8887	04-Nov-13	11042013-002.SSF	154726.7859	10985
722242.368	4294366.94	9469	04-Nov-13	11042013-002.SSF	154727.804	10986
722242.3	4294366.946	8829	04-Nov-13	11042013-002.SSF	154728.7891	10987
722242.263	4294366.965	8791	04-Nov-13	11042013-002.SSF	154729.804	10988
722242.272	4294366.977	9115	04-Nov-13	11042013-002.SSF	154730.8291	10989
722242.198	4294366.982	9664	04-Nov-13	11042013-002.SSF	154731.7561	10990
722242.165	4294367.02	9059	04-Nov-13	11042013-002.SSF	154732.8601	10991
722242.207	4294366.796	8223	04-Nov-13	11042013-002.SSF	154733.7629	10992
722242.507	4294366.346	8000	04-Nov-13	11042013-002.SSF	154734.8621	10993
722242.529	4294366.176	8580	04-Nov-13	11042013-002.SSF	154735.7571	10994
722242.414	4294366.201	8426	04-Nov-13	11042013-002.SSF	154736.8579	10995
722242.253	4294366.338	9165	04-Nov-13	11042013-002.SSF	154737.7581	10996
722241.87	4294366.635	8867	04-Nov-13	11042013-002.SSF	154738.8589	10997
722241.657	4294366.797	8505	04-Nov-13	11042013-002.SSF	154739.811	10998
722241.592	4294366.85	8542	04-Nov-13	11042013-002.SSF	154740.833	10999
722241.532	4294366.826	8374	04-Nov-13	11042013-002.SSF	154741.752	11000
722241.451	4294366.834	8940	04-Nov-13	11042013-002.SSF	154742.8359	11001
722241.489	4294366.805	8801	04-Nov-13	11042013-002.SSF	154743.7351	11002
722241.501	4294366.797	9068	04-Nov-13	11042013-002.SSF	154744.8391	11003
722241.462	4294366.811	9031	04-Nov-13	11042013-002.SSF	154745.738	11004
722241.491	4294366.753	8620	04-Nov-13	11042013-002.SSF	154746.8401	11005
722241.47	4294366.716	8445	04-Nov-13	11042013-002.SSF	154747.7971	11006
722241.464	4294366.74	8537	04-Nov-13	11042013-002.SSF	154748.822	11007
722241.456	4294366.729	8574	04-Nov-13	11042013-002.SSF	154749.7019	11008
722241.468	4294366.741	8850	04-Nov-13	11042013-002.SSF	154750.835	11009
722241.442	4294366.744	9216	04-Nov-13	11042013-002.SSF	154751.6941	11010
722241.384	4294366.718	8611	04-Nov-13	11042013-002.SSF	154752.8311	11011
722241.366	4294366.704	8091	04-Nov-13	11042013-002.SSF	154753.667	11012
722241.33	4294366.69	8421	04-Nov-13	11042013-002.SSF	154754.7791	11013
722241.26	4294366.722	8974	04-Nov-13	11042013-002.SSF	154755.728	11014
722241.251	4294366.831	8333	04-Nov-13	11042013-002.SSF	154756.8411	11015
722241.223	4294366.957	8985	04-Nov-13	11042013-002.SSF	154757.7749	11016
722241.174	4294367.142	8894	04-Nov-13	11042013-002.SSF	154758.833	11017
722241.14	4294367.195	9210	04-Nov-13	11042013-002.SSF	154759.7019	11018
722241.134	4294367.079	8803	04-Nov-13	11042013-002.SSF	154760.7871	11019

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722241.308	4294366.854	9339	04-Nov-13	11042013-002.SSF	154761.6699	11020
722241.431	4294366.789	8838	04-Nov-13	11042013-002.SSF	154762.7439	11021
722241.498	4294366.769	8766	04-Nov-13	11042013-002.SSF	154763.752	11022
722241.601	4294366.582	9528	04-Nov-13	11042013-002.SSF	154764.7681	11023
722241.77	4294366.283	8929	04-Nov-13	11042013-002.SSF	154765.803	11024
722241.872	4294365.988	8570	04-Nov-13	11042013-002.SSF	154766.9031	11025
722241.922	4294365.834	8481	04-Nov-13	11042013-002.SSF	154767.7791	11026
722241.987	4294365.685	8385	04-Nov-13	11042013-002.SSF	154768.855	11027
722242.041	4294365.605	8669	04-Nov-13	11042013-002.SSF	154769.7271	11028
722242.117	4294365.5	8641	04-Nov-13	11042013-002.SSF	154770.865	11029
722242.162	4294365.406	8730	04-Nov-13	11042013-002.SSF	154771.7339	11030
722242.215	4294365.329	8053	04-Nov-13	11042013-002.SSF	154772.8269	11031
722242.275	4294365.244	7635	04-Nov-13	11042013-002.SSF	154773.7871	11032
722242.306	4294365.21	8584	04-Nov-13	11042013-002.SSF	154774.813	11033
722242.347	4294365.205	8489	04-Nov-13	11042013-002.SSF	154775.7241	11034
722242.354	4294365.253	7947	04-Nov-13	11042013-002.SSF	154776.8711	11035
722242.296	4294365.256	8670	04-Nov-13	11042013-002.SSF	154777.771	11036
722242.216	4294365.249	8492	04-Nov-13	11042013-002.SSF	154778.8301	11037
722242.193	4294365.222	8092	04-Nov-13	11042013-002.SSF	154779.7539	11038
722242.193	4294365.261	8211	04-Nov-13	11042013-002.SSF	154780.7939	11039
722242.06	4294365.722	8669	04-Nov-13	11042013-002.SSF	154781.762	11040
722241.884	4294366.284	8648	04-Nov-13	11042013-002.SSF	154782.8201	11041
722241.964	4294366.797	8615	04-Nov-13	11042013-002.SSF	154783.7849	11042
722241.931	4294367.319	8730	04-Nov-13	11042013-002.SSF	154784.814	11043
722241.803	4294367.752	8631	04-Nov-13	11042013-002.SSF	154785.7119	11044
722241.253	4294368.115	8485	04-Nov-13	11042013-002.SSF	154786.856	11045
722240.885	4294368.353	8493	04-Nov-13	11042013-002.SSF	154787.679	11046
722240.577	4294368.516	8242	04-Nov-13	11042013-002.SSF	154788.772	11047
722240.392	4294368.622	8476	04-Nov-13	11042013-002.SSF	154789.6589	11048
722240.018	4294368.696	8855	04-Nov-13	11042013-002.SSF	154790.7991	11049
722239.95	4294368.588	9338	04-Nov-13	11042013-002.SSF	154791.74	11050
722239.381	4294368.656	8800	04-Nov-13	11042013-002.SSF	154792.78	11051
722239.056	4294368.722	8550	04-Nov-13	11042013-002.SSF	154793.6831	11052
722239.029	4294368.825	7959	04-Nov-13	11042013-002.SSF	154794.759	11053
722238.902	4294368.635	7822	04-Nov-13	11042013-002.SSF	154795.7029	11054
722238.603	4294368.513	8562	04-Nov-13	11042013-002.SSF	154796.762	11055
722238.133	4294368.482	7718	04-Nov-13	11042013-002.SSF	154797.7129	11056
722237.486	4294368.355	8347	04-Nov-13	11042013-002.SSF	154798.7749	11057
722237.086	4294368.562	7957	04-Nov-13	11042013-002.SSF	154799.676	11058
722236.325	4294368.774	8076	04-Nov-13	11042013-002.SSF	154800.832	11059
722236.087	4294369.098	8330	04-Nov-13	11042013-002.SSF	154801.783	11060
722235.994	4294369.589	8810	04-Nov-13	11042013-002.SSF	154802.853	11061
722235.924	4294370.061	8511	04-Nov-13	11042013-002.SSF	154803.802	11062
722235.856	4294370.381	8440	04-Nov-13	11042013-002.SSF	154804.845	11063
722235.646	4294370.848	8265	04-Nov-13	11042013-002.SSF	154805.7251	11064
722235.429	4294371.404	7986	04-Nov-13	11042013-002.SSF	154806.8	11065
722235.054	4294371.893	8250	04-Nov-13	11042013-002.SSF	154807.7681	11066

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.583	4294372.138	7978	04-Nov-13	11042013-002.SSF	154808.8159	11067
722234.437	4294372.511	8492	04-Nov-13	11042013-002.SSF	154809.718	11068
722234.298	4294372.818	8189	04-Nov-13	11042013-002.SSF	154810.7849	11069
722234.068	4294373.136	8004	04-Nov-13	11042013-002.SSF	154811.762	11070
722234.02	4294373.221	7839	04-Nov-13	11042013-002.SSF	154812.8579	11071
722233.772	4294373.398	7537	04-Nov-13	11042013-002.SSF	154813.7251	11072
722233.573	4294373.762	8057	04-Nov-13	11042013-002.SSF	154814.8469	11073
722233.418	4294374.061	8237	04-Nov-13	11042013-002.SSF	154815.717	11074
722233.287	4294374.519	8511	04-Nov-13	11042013-002.SSF	154816.8469	11075
722233.083	4294374.885	8642	04-Nov-13	11042013-002.SSF	154817.6851	11076
722232.894	4294375.301	8386	04-Nov-13	11042013-002.SSF	154818.7781	11077
722232.732	4294375.718	8197	04-Nov-13	11042013-002.SSF	154819.7471	11078
722232.541	4294376.374	8413	04-Nov-13	11042013-002.SSF	154820.76	11079
722231.999	4294377.128	7845	04-Nov-13	11042013-002.SSF	154821.7251	11080
722231.533	4294377.677	8155	04-Nov-13	11042013-002.SSF	154822.7839	11081
722231.387	4294377.999	8089	04-Nov-13	11042013-002.SSF	154823.6689	11082
722231.216	4294378.534	8030	04-Nov-13	11042013-002.SSF	154824.729	11083
722231.131	4294378.811	7202	04-Nov-13	11042013-002.SSF	154825.741	11084
722231.058	4294378.812	7763	04-Nov-13	11042013-002.SSF	154826.739	11085
722230.973	4294378.78	8072	04-Nov-13	11042013-002.SSF	154827.741	11086
722230.911	4294378.851	7825	04-Nov-13	11042013-002.SSF	154828.7849	11087
722230.92	4294379.073	7327	04-Nov-13	11042013-002.SSF	154829.7429	11088
722230.966	4294379.5	7871	04-Nov-13	11042013-002.SSF	154830.7881	11089
722231.228	4294379.988	8155	04-Nov-13	11042013-002.SSF	154831.6819	11090
722231.472	4294380.319	8187	04-Nov-13	11042013-002.SSF	154832.7981	11091
722231.528	4294380.555	8842	04-Nov-13	11042013-002.SSF	154833.752	11092
722231.857	4294380.764	8236	04-Nov-13	11042013-002.SSF	154834.7671	11093
722232.072	4294381.083	8435	04-Nov-13	11042013-002.SSF	154835.7251	11094
722232.026	4294381.393	8660	04-Nov-13	11042013-002.SSF	154836.814	11095
722232.024	4294381.558	8591	04-Nov-13	11042013-002.SSF	154837.7981	11096
722231.971	4294381.64	8440	04-Nov-13	11042013-002.SSF	154838.793	11097
722231.863	4294381.657	8137	04-Nov-13	11042013-002.SSF	154839.7261	11098
722231.641	4294381.788	8207	04-Nov-13	11042013-002.SSF	154840.8911	11099
722231.786	4294382.08	7781	04-Nov-13	11042013-002.SSF	154841.8311	11100
722231.993	4294382.463	8044	04-Nov-13	11042013-002.SSF	154842.843	11101
722232.544	4294382.395	7795	04-Nov-13	11042013-002.SSF	154843.7141	11102
722232.846	4294381.955	7969	04-Nov-13	11042013-002.SSF	154844.7939	11103
722232.903	4294381.759	7805	04-Nov-13	11042013-002.SSF	154845.668	11104
722233.138	4294381.318	8020	04-Nov-13	11042013-002.SSF	154846.8091	11105
722233.237	4294381.15	7286	04-Nov-13	11042013-002.SSF	154847.6531	11106
722233.111	4294380.779	7646	04-Nov-13	11042013-002.SSF	154848.7109	11107
722232.97	4294380.507	7841	04-Nov-13	11042013-002.SSF	154849.6631	11108
722232.638	4294379.893	8490	04-Nov-13	11042013-002.SSF	154850.7939	11109
722232.499	4294379.577	8076	04-Nov-13	11042013-002.SSF	154851.762	11110
722232.483	4294379.123	8187	04-Nov-13	11042013-002.SSF	154852.875	11111
722232.2	4294378.783	8048	04-Nov-13	11042013-002.SSF	154853.7771	11112
722231.843	4294378.537	8127	04-Nov-13	11042013-002.SSF	154854.8501	11113

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722231.785	4294378.325	7354	04-Nov-13	11042013-002.SSF	154855.6809	11114
722231.772	4294378.055	7639	04-Nov-13	11042013-002.SSF	154856.8411	11115
722231.746	4294377.762	7784	04-Nov-13	11042013-002.SSF	154857.739	11116
722232.065	4294377.17	8076	04-Nov-13	11042013-002.SSF	154858.823	11117
722232.247	4294376.386	8158	04-Nov-13	11042013-002.SSF	154859.7581	11118
722232.502	4294375.579	8136	04-Nov-13	11042013-002.SSF	154860.8	11119
722232.742	4294374.927	8394	04-Nov-13	11042013-002.SSF	154861.646	11120
722232.838	4294374.41	8029	04-Nov-13	11042013-002.SSF	154862.8159	11121
722232.873	4294373.81	7928	04-Nov-13	11042013-002.SSF	154863.698	11122
722233.032	4294373.173	8810	04-Nov-13	11042013-002.SSF	154864.7549	11123
722233.328	4294372.449	9170	04-Nov-13	11042013-002.SSF	154865.717	11124
722233.658	4294372.003	8968	04-Nov-13	11042013-002.SSF	154866.771	11125
722233.819	4294371.839	8832	04-Nov-13	11042013-002.SSF	154867.6631	11126
722234.174	4294371.993	7825	04-Nov-13	11042013-002.SSF	154868.7661	11127
722234.566	4294372.082	7919	04-Nov-13	11042013-002.SSF	154869.627	11128
722235.188	4294371.77	7387	04-Nov-13	11042013-002.SSF	154870.8359	11129
722235.815	4294371.324	8017	04-Nov-13	11042013-002.SSF	154871.7351	11130
722236.538	4294370.669	8117	04-Nov-13	11042013-002.SSF	154872.843	11131
722236.865	4294370.464	7701	04-Nov-13	11042013-002.SSF	154873.7419	11132
722237.404	4294370.336	7984	04-Nov-13	11042013-002.SSF	154874.8411	11133
722238.068	4294370.38	7978	04-Nov-13	11042013-002.SSF	154875.783	11134
722238.777	4294370.293	7938	04-Nov-13	11042013-002.SSF	154876.7859	11135
722239.42	4294370.011	8132	04-Nov-13	11042013-002.SSF	154877.7241	11136
722239.772	4294369.657	8474	04-Nov-13	11042013-002.SSF	154878.823	11137
722239.912	4294368.998	8367	04-Nov-13	11042013-002.SSF	154879.7019	11138
722239.692	4294368.22	8283	04-Nov-13	11042013-002.SSF	154880.8059	11139
722239.31	4294367.725	8522	04-Nov-13	11042013-002.SSF	154881.7051	11140
722238.757	4294367.53	8731	04-Nov-13	11042013-002.SSF	154882.7529	11141
722238.178	4294367.679	8953	04-Nov-13	11042013-002.SSF	154883.6521	11142
722237.532	4294367.965	8134	04-Nov-13	11042013-002.SSF	154884.7529	11143
722236.978	4294368.049	8212	04-Nov-13	11042013-002.SSF	154885.6731	11144
722236.317	4294367.968	8339	04-Nov-13	11042013-002.SSF	154886.7781	11145
722235.836	4294368.02	8403	04-Nov-13	11042013-002.SSF	154887.637	11146
722235.199	4294368.254	8252	04-Nov-13	11042013-002.SSF	154888.782	11147
722233.871	4294369.467	8328	04-Nov-13	11042013-002.SSF	154890.728	11149
722233.486	4294370.327	7849	04-Nov-13	11042013-002.SSF	154891.679	11150
722233.1	4294371.251	7895	04-Nov-13	11042013-002.SSF	154892.7329	11151
722232.848	4294371.971	8423	04-Nov-13	11042013-002.SSF	154893.689	11152
722232.572	4294372.711	8548	04-Nov-13	11042013-002.SSF	154894.7351	11153
722232.322	4294372.985	8386	04-Nov-13	11042013-002.SSF	154895.696	11154
722232.052	4294372.843	8654	04-Nov-13	11042013-002.SSF	154896.7981	11155
722231.826	4294372.611	8130	04-Nov-13	11042013-002.SSF	154897.6831	11156
722232.044	4294372.176	8451	04-Nov-13	11042013-002.SSF	154898.7791	11157
722231.977	4294371.925	8128	04-Nov-13	11042013-002.SSF	154899.6699	11158
722231.631	4294372.153	8352	04-Nov-13	11042013-002.SSF	154900.842	11159
722231.152	4294372.609	7998	04-Nov-13	11042013-002.SSF	154901.7109	11160
722230.552	4294373.277	8001	04-Nov-13	11042013-002.SSF	154902.8311	11161

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722230.16	4294374.075	8175	04-Nov-13	11042013-002.SSF	154903.7261	11162
722229.648	4294375.019	8184	04-Nov-13	11042013-002.SSF	154904.752	11163
722229.15	4294375.904	7986	04-Nov-13	11042013-002.SSF	154905.6951	11164
722228.894	4294376.974	7357	04-Nov-13	11042013-002.SSF	154906.8	11165
722228.787	4294377.985	8121	04-Nov-13	11042013-002.SSF	154907.7129	11166
722228.942	4294378.962	8265	04-Nov-13	11042013-002.SSF	154908.7549	11167
722229.472	4294379.558	7492	04-Nov-13	11042013-002.SSF	154909.741	11168
722229.885	4294380.406	7739	04-Nov-13	11042013-002.SSF	154910.696	11169
722230.056	4294381.255	7975	04-Nov-13	11042013-002.SSF	154911.605	11170
722230.147	4294381.97	8446	04-Nov-13	11042013-002.SSF	154912.6699	11171
722230.238	4294382.515	8118	04-Nov-13	11042013-002.SSF	154913.616	11172
722230.225	4294382.833	8526	04-Nov-13	11042013-002.SSF	154914.6919	11173
722230.243	4294382.862	8486	04-Nov-13	11042013-002.SSF	154915.7339	11174
722230.286	4294382.98	8096	04-Nov-13	11042013-002.SSF	154916.7329	11175
722230.462	4294383.416	8536	04-Nov-13	11042013-002.SSF	154917.6689	11176
722230.89	4294384.236	8506	04-Nov-13	11042013-002.SSF	154918.7429	11177
722231.298	4294385.087	8842	04-Nov-13	11042013-002.SSF	154919.7	11178
722231.487	4294385.983	8619	04-Nov-13	11042013-002.SSF	154920.803	11179
722231.576	4294386.426	9123	04-Nov-13	11042013-002.SSF	154921.688	11180
722231.589	4294386.357	8956	04-Nov-13	11042013-002.SSF	154922.8191	11181
722231.607	4294386.161	9125	04-Nov-13	11042013-002.SSF	154923.7009	11182
722231.644	4294386.016	8658	04-Nov-13	11042013-002.SSF	154924.783	11183
722232.045	4294385.865	8372	04-Nov-13	11042013-002.SSF	154925.7029	11184
722232.469	4294385.859	7649	04-Nov-13	11042013-002.SSF	154926.7781	11185
722232.622	4294385.993	8023	04-Nov-13	11042013-002.SSF	154927.676	11186
722232.785	4294386.329	9050	04-Nov-13	11042013-002.SSF	154928.7771	11187
722232.813	4294386.411	8690	04-Nov-13	11042013-002.SSF	154929.675	11188
722232.732	4294386.393	8653	04-Nov-13	11042013-002.SSF	154930.7881	11189
722232.787	4294386.246	8055	04-Nov-13	11042013-002.SSF	154931.6831	11190
722232.905	4294386.107	7966	04-Nov-13	11042013-002.SSF	154932.7571	11191
722232.851	4294386.619	8343	04-Nov-13	11042013-002.SSF	154933.75	11192
722233.007	4294387.065	8503	04-Nov-13	11042013-002.SSF	154934.8459	11193
722233.116	4294387.433	8525	04-Nov-13	11042013-002.SSF	154935.666	11194
722233.075	4294387.734	8613	04-Nov-13	11042013-002.SSF	154936.771	11195
722233.152	4294387.847	7762	04-Nov-13	11042013-002.SSF	154937.657	11196
722233.237	4294387.835	7816	04-Nov-13	11042013-002.SSF	154938.676	11197
722233.287	4294387.809	7734	04-Nov-13	11042013-002.SSF	154939.6799	11198
722233.276	4294387.829	8130	04-Nov-13	11042013-002.SSF	154940.7041	11199
722233.255	4294387.876	8300	04-Nov-13	11042013-002.SSF	154941.657	11200
722232.947	4294387.815	8029	04-Nov-13	11042013-002.SSF	154942.729	11201
722232.814	4294387.826	7981	04-Nov-13	11042013-002.SSF	154943.656	11202
722232.836	4294387.943	7767	04-Nov-13	11042013-002.SSF	154944.7419	11203
722232.756	4294387.993	8066	04-Nov-13	11042013-002.SSF	154945.7119	11204
722232.733	4294388	8190	04-Nov-13	11042013-002.SSF	154946.7759	11205
722232.715	4294387.998	8176	04-Nov-13	11042013-002.SSF	154947.676	11206
722232.813	4294388.273	8334	04-Nov-13	11042013-002.SSF	154948.7891	11207
722233.002	4294388.464	8325	04-Nov-13	11042013-002.SSF	154949.6721	11208

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722233.412	4294388.535	8335	04-Nov-13	11042013-002.SSF	154950.6941	11209
722233.872	4294388.529	8266	04-Nov-13	11042013-002.SSF	154951.574	11210
722234.346	4294388.52	8310	04-Nov-13	11042013-002.SSF	154952.7051	11211
722234.612	4294388.491	7936	04-Nov-13	11042013-002.SSF	154953.655	11212
722235.065	4294388.467	8356	04-Nov-13	11042013-002.SSF	154954.7319	11213
722235.514	4294388.777	7948	04-Nov-13	11042013-002.SSF	154955.595	11214
722236.322	4294389.46	8033	04-Nov-13	11042013-002.SSF	154956.7739	11215
722236.785	4294389.935	7586	04-Nov-13	11042013-002.SSF	154957.657	11216
722237.241	4294390.476	8032	04-Nov-13	11042013-002.SSF	154958.7419	11217
722237.685	4294390.825	7218	04-Nov-13	11042013-002.SSF	154959.658	11218
722238.13	4294390.889	7397	04-Nov-13	11042013-002.SSF	154960.8191	11219
722238.574	4294390.801	7168	04-Nov-13	11042013-002.SSF	154961.6941	11220
722238.899	4294390.725	6822	04-Nov-13	11042013-002.SSF	154962.759	11221
722239.001	4294390.481	6852	04-Nov-13	11042013-002.SSF	154963.689	11222
722238.77	4294390.516	7402	04-Nov-13	11042013-002.SSF	154964.7881	11223
722238.553	4294390.455	7343	04-Nov-13	11042013-002.SSF	154965.7161	11224
722238.128	4294390.602	7168	04-Nov-13	11042013-002.SSF	154966.8411	11225
722237.726	4294390.631	7174	04-Nov-13	11042013-002.SSF	154967.75	11226
722237.445	4294390.783	6953	04-Nov-13	11042013-002.SSF	154968.7849	11227
722237.17	4294391.054	7503	04-Nov-13	11042013-002.SSF	154969.7529	11228
722237.119	4294391.136	7288	04-Nov-13	11042013-002.SSF	154970.7371	11229
722236.99	4294391.17	8007	04-Nov-13	11042013-002.SSF	154971.7329	11230
722236.795	4294391.309	8119	04-Nov-13	11042013-002.SSF	154972.7859	11231
722236.658	4294391.473	7814	04-Nov-13	11042013-002.SSF	154973.667	11232
722236.296	4294391.508	8168	04-Nov-13	11042013-002.SSF	154974.749	11233
722235.845	4294391.628	8016	04-Nov-13	11042013-002.SSF	154975.738	11234
722235.326	4294391.843	7987	04-Nov-13	11042013-002.SSF	154976.739	11235
722234.842	4294392.115	8437	04-Nov-13	11042013-002.SSF	154977.7019	11236
722234.189	4294392.32	8458	04-Nov-13	11042013-002.SSF	154978.731	11237
722233.673	4294392.525	8043	04-Nov-13	11042013-002.SSF	154979.6631	11238
722232.411	4294392.646	7944	04-Nov-13	11042013-002.SSF	154980.7681	11239
722231.787	4294392.878	8046	04-Nov-13	11042013-002.SSF	154981.6621	11240
722231.39	4294392.809	8448	04-Nov-13	11042013-002.SSF	154982.793	11241
722230.909	4294392.618	8487	04-Nov-13	11042013-002.SSF	154983.7119	11242
722229.386	4294393.085	8276	04-Nov-13	11042013-002.SSF	154984.791	11243
722228.846	4294393.44	9118	04-Nov-13	11042013-002.SSF	154985.7351	11244
722228.788	4294393.882	8871	04-Nov-13	11042013-002.SSF	154986.7371	11245
722228.52	4294394.257	9520	04-Nov-13	11042013-002.SSF	154987.644	11246
722228.02	4294394.91	9262	04-Nov-13	11042013-002.SSF	154988.7129	11247
722227.214	4294395.239	8532	04-Nov-13	11042013-002.SSF	154989.718	11248
722226.529	4294395.424	9247	04-Nov-13	11042013-002.SSF	154990.7219	11249
722225.859	4294395.673	9146	04-Nov-13	11042013-002.SSF	154991.7141	11250
722225.019	4294395.436	8400	04-Nov-13	11042013-002.SSF	154992.801	11251
722224.55	4294395.606	8542	04-Nov-13	11042013-002.SSF	154993.6499	11252
722224.39	4294396.182	8540	04-Nov-13	11042013-002.SSF	154994.739	11253
722224.408	4294396.052	8328	04-Nov-13	11042013-002.SSF	154995.698	11254
722224.356	4294396.027	8832	04-Nov-13	11042013-002.SSF	154996.7859	11255

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722224.041	4294396.037	9085	04-Nov-13	11042013-002.SSF	154997.6709	11256
722223.623	4294396.098	8740	04-Nov-13	11042013-002.SSF	154998.7329	11257
722223.105	4294396.254	8464	04-Nov-13	11042013-002.SSF	154999.729	11258
722222.751	4294396.592	8368	04-Nov-13	11042013-002.SSF	155000.6809	11259
722222.62	4294397.031	8652	04-Nov-13	11042013-002.SSF	155001.6819	11260
722221.99	4294397.428	8407	04-Nov-13	11042013-002.SSF	155002.7471	11261
722221.124	4294397.562	8771	04-Nov-13	11042013-002.SSF	155003.6721	11262
722220.631	4294397.886	8474	04-Nov-13	11042013-002.SSF	155004.718	11263
722220.344	4294398.061	8366	04-Nov-13	11042013-002.SSF	155005.623	11264
722219.842	4294397.981	8538	04-Nov-13	11042013-002.SSF	155006.717	11265
722219.629	4294397.753	9318	04-Nov-13	11042013-002.SSF	155007.5959	11266
722219.575	4294397.556	8391	04-Nov-13	11042013-002.SSF	155008.7141	11267
722219.766	4294397.474	8252	04-Nov-13	11042013-002.SSF	155009.668	11268
722220.247	4294397.257	8482	04-Nov-13	11042013-002.SSF	155010.707	11269
722220.948	4294396.942	8873	04-Nov-13	11042013-002.SSF	155011.6689	11270
722221.642	4294396.336	8733	04-Nov-13	11042013-002.SSF	155012.751	11271
722222.124	4294395.836	7807	04-Nov-13	11042013-002.SSF	155013.647	11272
722222.843	4294395.383	8404	04-Nov-13	11042013-002.SSF	155014.749	11273
722223.472	4294394.854	8327	04-Nov-13	11042013-002.SSF	155015.5791	11274
722224.21	4294394.111	8951	04-Nov-13	11042013-002.SSF	155016.748	11275
722224.835	4294393.576	8538	04-Nov-13	11042013-002.SSF	155017.5969	11276
722225.667	4294393.037	8125	04-Nov-13	11042013-002.SSF	155018.6631	11277
722226.166	4294392.652	8005	04-Nov-13	11042013-002.SSF	155019.645	11278
722226.681	4294392.252	7878	04-Nov-13	11042013-002.SSF	155020.6599	11279
722227.149	4294391.894	7746	04-Nov-13	11042013-002.SSF	155021.6431	11280
722227.539	4294391.415	7665	04-Nov-13	11042013-002.SSF	155022.7361	11281
722227.766	4294391.169	7566	04-Nov-13	11042013-002.SSF	155023.6321	11282
722227.959	4294390.988	7841	04-Nov-13	11042013-002.SSF	155024.634	11283
722228.11	4294390.628	7748	04-Nov-13	11042013-002.SSF	155025.656	11284
722228.381	4294390.144	7763	04-Nov-13	11042013-002.SSF	155026.751	11285
722228.988	4294389.626	8169	04-Nov-13	11042013-002.SSF	155027.7119	11286
722229.723	4294388.934	8510	04-Nov-13	11042013-002.SSF	155028.749	11287
722230.324	4294388.336	8597	04-Nov-13	11042013-002.SSF	155029.709	11288
722231.106	4294387.884	8346	04-Nov-13	11042013-002.SSF	155030.803	11289
722231.71	4294387.488	8572	04-Nov-13	11042013-002.SSF	155031.6851	11290
722232.488	4294387.01	8444	04-Nov-13	11042013-002.SSF	155032.7461	11291
722233.222	4294386.576	8642	04-Nov-13	11042013-002.SSF	155033.6941	11292
722233.929	4294386.043	7988	04-Nov-13	11042013-002.SSF	155034.7419	11293
722234.638	4294385.546	7838	04-Nov-13	11042013-002.SSF	155035.644	11294
722235.129	4294385.019	8504	04-Nov-13	11042013-002.SSF	155036.7661	11295
722235.239	4294384.585	9141	04-Nov-13	11042013-002.SSF	155037.6221	11296
722235.281	4294383.895	8981	04-Nov-13	11042013-002.SSF	155038.717	11297
722235.277	4294383.496	9327	04-Nov-13	11042013-002.SSF	155039.6641	11298
722235.156	4294383.323	9116	04-Nov-13	11042013-002.SSF	155040.7319	11299
722234.93	4294383.298	8525	04-Nov-13	11042013-002.SSF	155041.592	11300
722234.624	4294383.627	8553	04-Nov-13	11042013-002.SSF	155042.7891	11301
722234.33	4294383.642	8066	04-Nov-13	11042013-002.SSF	155043.6699	11302

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722233.719	4294383.408	8519	04-Nov-13	11042013-002.SSF	155044.7949	11303
722233.36	4294383.46	8497	04-Nov-13	11042013-002.SSF	155045.708	11304
722232.83	4294383.837	8034	04-Nov-13	11042013-002.SSF	155046.7229	11305
722232.497	4294384.177	7984	04-Nov-13	11042013-002.SSF	155047.7041	11306
722232.291	4294384.638	7911	04-Nov-13	11042013-002.SSF	155048.7871	11307
722232.072	4294384.978	8597	04-Nov-13	11042013-002.SSF	155049.6721	11308
722231.698	4294385.534	8466	04-Nov-13	11042013-002.SSF	155050.7261	11309
722231.181	4294385.977	7927	04-Nov-13	11042013-002.SSF	155051.5779	11310
722230.333	4294386.481	7691	04-Nov-13	11042013-002.SSF	155052.668	11311
722229.961	4294386.721	8031	04-Nov-13	11042013-002.SSF	155053.592	11312
722229.209	4294386.899	8215	04-Nov-13	11042013-002.SSF	155054.6931	11313
722228.305	4294387.259	7906	04-Nov-13	11042013-002.SSF	155055.6179	11314
722227.271	4294387.725	8047	04-Nov-13	11042013-002.SSF	155056.731	11315
722226.403	4294388.068	8651	04-Nov-13	11042013-002.SSF	155057.5959	11316
722225.426	4294388.521	8249	04-Nov-13	11042013-002.SSF	155058.719	11317
722224.54	4294388.749	7992	04-Nov-13	11042013-002.SSF	155059.623	11318
722223.528	4294388.975	8576	04-Nov-13	11042013-002.SSF	155060.7041	11319
722222.872	4294389.023	8859	04-Nov-13	11042013-002.SSF	155061.675	11320
722222.304	4294389.128	8935	04-Nov-13	11042013-002.SSF	155062.665	11321
722221.678	4294389.29	8941	04-Nov-13	11042013-002.SSF	155063.646	11322
722221.034	4294389.619	9027	04-Nov-13	11042013-002.SSF	155064.7029	11323
722220.39	4294390.027	8775	04-Nov-13	11042013-002.SSF	155065.678	11324
722219.63	4294390.598	8566	04-Nov-13	11042013-002.SSF	155066.748	11325
722218.859	4294391.144	8313	04-Nov-13	11042013-002.SSF	155067.626	11326
722218.55	4294391.498	7826	04-Nov-13	11042013-002.SSF	155068.707	11327
722218.488	4294391.657	7522	04-Nov-13	11042013-002.SSF	155069.6189	11328
722218.444	4294391.847	7726	04-Nov-13	11042013-002.SSF	155070.697	11329
722218.209	4294391.825	7728	04-Nov-13	11042013-002.SSF	155071.6541	11330
722217.718	4294391.776	8562	04-Nov-13	11042013-002.SSF	155072.7571	11331
722217.348	4294391.955	8753	04-Nov-13	11042013-002.SSF	155073.6709	11332
722216.881	4294392.091	8591	04-Nov-13	11042013-002.SSF	155074.696	11333
722216.554	4294391.558	9047	04-Nov-13	11042013-002.SSF	155075.678	11334
722216.74	4294390.462	9034	04-Nov-13	11042013-002.SSF	155076.781	11335
722217.51	4294389.785	9229	04-Nov-13	11042013-002.SSF	155077.6841	11336
722218.74	4294388.939	8401	04-Nov-13	11042013-002.SSF	155078.761	11337
722219.739	4294388.402	8280	04-Nov-13	11042013-002.SSF	155079.6699	11338
722220.34	4294387.896	8610	04-Nov-13	11042013-002.SSF	155080.7119	11339
722220.445	4294387.222	8256	04-Nov-13	11042013-002.SSF	155081.655	11340
722220.304	4294386.234	8784	04-Nov-13	11042013-002.SSF	155082.7529	11341
722219.962	4294385.667	8503	04-Nov-13	11042013-002.SSF	155083.6399	11342
722219.557	4294385.158	9140	04-Nov-13	11042013-002.SSF	155084.6689	11343
722219.082	4294384.69	9371	04-Nov-13	11042013-002.SSF	155085.5911	11344
722218.472	4294384.099	8976	04-Nov-13	11042013-002.SSF	155086.6609	11345
722217.84	4294383.392	8431	04-Nov-13	11042013-002.SSF	155087.657	11346
722217.524	4294382.563	8005	04-Nov-13	11042013-002.SSF	155088.719	11347
722217.365	4294381.977	8080	04-Nov-13	11042013-002.SSF	155089.6589	11348
722217.011	4294381.249	7935	04-Nov-13	11042013-002.SSF	155090.792	11349

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722216.638	4294380.735	8063	04-Nov-13	11042013-002.SSF	155091.6641	11350
722216.282	4294380.076	8000	04-Nov-13	11042013-002.SSF	155092.709	11351
722215.759	4294379.811	8123	04-Nov-13	11042013-002.SSF	155093.666	11352
722215.074	4294379.879	7854	04-Nov-13	11042013-002.SSF	155094.699	11353
722214.564	4294380.078	7545	04-Nov-13	11042013-002.SSF	155095.543	11354
722213.869	4294380.334	7844	04-Nov-13	11042013-002.SSF	155096.7339	11355
722213.539	4294380.402	7217	04-Nov-13	11042013-002.SSF	155097.634	11356
722213.224	4294380.53	7427	04-Nov-13	11042013-002.SSF	155098.636	11357
722212.726	4294380.49	7710	04-Nov-13	11042013-002.SSF	155099.635	11358
722212.082	4294380.446	7629	04-Nov-13	11042013-002.SSF	155100.699	11359
722211.689	4294380.465	7914	04-Nov-13	11042013-002.SSF	155101.635	11360
722211.164	4294380.512	8374	04-Nov-13	11042013-002.SSF	155102.6379	11361
722210.787	4294380.602	8415	04-Nov-13	11042013-002.SSF	155103.563	11362
722210.349	4294380.712	8663	04-Nov-13	11042013-002.SSF	155104.6609	11363
722209.908	4294380.811	8795	04-Nov-13	11042013-002.SSF	155105.7141	11364
722209.495	4294380.884	9057	04-Nov-13	11042013-002.SSF	155106.7271	11365
722209.388	4294380.887	9152	04-Nov-13	11042013-002.SSF	155107.6311	11366
722209.332	4294381.09	9033	04-Nov-13	11042013-002.SSF	155108.7429	11367
722209.24	4294381.299	9191	04-Nov-13	11042013-002.SSF	155109.6919	11368
722209.079	4294381.348	9625	04-Nov-13	11042013-002.SSF	155110.759	11369
722208.822	4294381.329	9479	04-Nov-13	11042013-002.SSF	155111.6379	11370
722208.68	4294381.272	8939	04-Nov-13	11042013-002.SSF	155112.7241	11371
722208.734	4294381.333	8981	04-Nov-13	11042013-002.SSF	155113.595	11372
722208.709	4294381.448	9461	04-Nov-13	11042013-002.SSF	155114.6741	11373
722208.295	4294381.914	9199	04-Nov-13	11042013-002.SSF	155115.5791	11374
722207.826	4294382.346	9375	04-Nov-13	11042013-002.SSF	155116.623	11375
722207.766	4294382.415	9293	04-Nov-13	11042013-002.SSF	155117.5891	11376
722207.853	4294382.366	8850	04-Nov-13	11042013-002.SSF	155118.668	11377
722208.057	4294382.208	8713	04-Nov-13	11042013-002.SSF	155119.574	11378
722207.989	4294382.247	9191	04-Nov-13	11042013-002.SSF	155120.7009	11379
722207.823	4294382.345	8305	04-Nov-13	11042013-002.SSF	155121.5901	11380
722207.737	4294382.377	8609	04-Nov-13	11042013-002.SSF	155122.699	11381
722207.672	4294382.405	8637	04-Nov-13	11042013-002.SSF	155123.6169	11382
722207.362	4294382.518	8556	04-Nov-13	11042013-002.SSF	155124.738	11383
722207.126	4294382.57	8765	04-Nov-13	11042013-002.SSF	155125.5769	11384
722206.57	4294382.722	9160	04-Nov-13	11042013-002.SSF	155126.6731	11385
722206.148	4294382.868	9367	04-Nov-13	11042013-002.SSF	155127.6079	11386
722205.843	4294383.207	8689	04-Nov-13	11042013-002.SSF	155128.709	11387
722205.766	4294383.573	8262	04-Nov-13	11042013-002.SSF	155129.616	11388
722206.035	4294383.814	8007	04-Nov-13	11042013-002.SSF	155130.728	11389
722206.13	4294383.965	8351	04-Nov-13	11042013-002.SSF	155131.6021	11390
722206.219	4294384.152	8838	04-Nov-13	11042013-002.SSF	155132.7371	11391
722206.158	4294384.306	8774	04-Nov-13	11042013-002.SSF	155133.6331	11392
722206.012	4294384.467	8827	04-Nov-13	11042013-002.SSF	155134.739	11393
722206.108	4294384.494	8700	04-Nov-13	11042013-002.SSF	155135.636	11394
722206.039	4294384.377	8126	04-Nov-13	11042013-002.SSF	155136.6819	11395
722205.985	4294384.291	7938	04-Nov-13	11042013-002.SSF	155137.6279	11396

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722205.991	4294384.094	8058	04-Nov-13	11042013-002.SSF	155138.668	11397
722205.962	4294383.972	7660	04-Nov-13	11042013-002.SSF	155139.6169	11398
722205.906	4294383.999	8141	04-Nov-13	11042013-002.SSF	155140.698	11399
722205.849	4294384.019	8254	04-Nov-13	11042013-002.SSF	155141.6079	11400
722205.698	4294384.027	8843	04-Nov-13	11042013-002.SSF	155142.6919	11401
722205.649	4294384.094	9084	04-Nov-13	11042013-002.SSF	155143.6851	11402
722205.707	4294384.229	8942	04-Nov-13	11042013-002.SSF	155144.7371	11403
722205.688	4294384.431	9342	04-Nov-13	11042013-002.SSF	155145.562	11404
722205.61	4294384.768	9410	04-Nov-13	11042013-002.SSF	155146.627	11405
722205.544	4294384.98	9140	04-Nov-13	11042013-002.SSF	155147.5911	11406
722205.507	4294385.13	8869	04-Nov-13	11042013-002.SSF	155148.687	11407
722205.498	4294385.213	8544	04-Nov-13	11042013-002.SSF	155149.542	11408
722205.506	4294385.301	8706	04-Nov-13	11042013-002.SSF	155150.689	11409
722205.539	4294385.336	8504	04-Nov-13	11042013-002.SSF	155151.6641	11410
722205.542	4294385.435	8309	04-Nov-13	11042013-002.SSF	155152.729	11411
722205.55	4294385.538	8903	04-Nov-13	11042013-002.SSF	155153.6931	11412
722205.629	4294385.454	9125	04-Nov-13	11042013-002.SSF	155154.76	11413
722205.698	4294385.379	8508	04-Nov-13	11042013-002.SSF	155155.623	11414
722205.778	4294385.287	8693	04-Nov-13	11042013-002.SSF	155156.6841	11415
722205.822	4294385.266	8505	04-Nov-13	11042013-002.SSF	155157.6621	11416
722205.883	4294385.234	8879	04-Nov-13	11042013-002.SSF	155158.7351	11417
722205.927	4294385.193	8872	04-Nov-13	11042013-002.SSF	155159.5911	11418
722205.981	4294384.99	8733	04-Nov-13	11042013-002.SSF	155160.688	11419
722206.005	4294384.698	9315	04-Nov-13	11042013-002.SSF	155161.6699	11420
722206.064	4294384.413	9469	04-Nov-13	11042013-002.SSF	155162.7419	11421
722206.074	4294384.268	9691	04-Nov-13	11042013-002.SSF	155163.7129	11422
722206.029	4294384.18	9201	04-Nov-13	11042013-002.SSF	155164.7219	11423
722205.994	4294384.126	8948	04-Nov-13	11042013-002.SSF	155165.72	11424
722205.944	4294384.113	8963	04-Nov-13	11042013-002.SSF	155166.7219	11425
722205.888	4294384.122	8919	04-Nov-13	11042013-002.SSF	155167.7219	11426
722205.892	4294384.111	9217	04-Nov-13	11042013-002.SSF	155168.7351	11427
722205.915	4294384.085	9189	04-Nov-13	11042013-002.SSF	155169.645	11428
722205.915	4294384.08	8739	04-Nov-13	11042013-002.SSF	155170.7241	11429
722205.918	4294384.078	8433	04-Nov-13	11042013-002.SSF	155171.6851	11430
722205.864	4294384.123	8238	04-Nov-13	11042013-002.SSF	155172.7749	11431
722205.835	4294384.156	8954	04-Nov-13	11042013-002.SSF	155173.625	11432
722205.803	4294384.207	9094	04-Nov-13	11042013-002.SSF	155174.6721	11433
722205.762	4294384.266	8678	04-Nov-13	11042013-002.SSF	155175.5979	11434
722205.783	4294384.526	9171	04-Nov-13	11042013-002.SSF	155176.74	11435
722205.822	4294384.742	8631	04-Nov-13	11042013-002.SSF	155177.593	11436
722205.847	4294384.866	8867	04-Nov-13	11042013-002.SSF	155178.6589	11437
722205.859	4294384.914	9443	04-Nov-13	11042013-002.SSF	155179.572	11438
722205.939	4294384.927	9219	04-Nov-13	11042013-002.SSF	155180.7451	11439
722206.029	4294384.912	9295	04-Nov-13	11042013-002.SSF	155181.6631	11440
722206.13	4294384.862	9541	04-Nov-13	11042013-002.SSF	155182.6809	11441
722206.205	4294384.782	9544	04-Nov-13	11042013-002.SSF	155183.571	11442
722206.298	4294384.699	9531	04-Nov-13	11042013-002.SSF	155184.751	11443

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722206.264	4294384.713	9659	04-Nov-13	11042013-002.SSF	155185.613	11444
722206.249	4294384.705	9385	04-Nov-13	11042013-002.SSF	155186.656	11445
722206.307	4294384.605	9397	04-Nov-13	11042013-002.SSF	155187.5959	11446
722206.291	4294384.643	9335	04-Nov-13	11042013-002.SSF	155188.6809	11447
722206.413	4294384.496	8693	04-Nov-13	11042013-002.SSF	155189.614	11448
722206.824	4294384.197	8970	04-Nov-13	11042013-002.SSF	155190.6179	11449
722207.379	4294383.859	8797	04-Nov-13	11042013-002.SSF	155191.5779	11450
722207.956	4294383.361	9072	04-Nov-13	11042013-002.SSF	155192.626	11451
722208.7	4294382.881	9063	04-Nov-13	11042013-002.SSF	155193.613	11452
722209.7	4294382.384	8750	04-Nov-13	11042013-002.SSF	155194.6289	11453
722210.488	4294382.178	8657	04-Nov-13	11042013-002.SSF	155195.5281	11454
722211.544	4294382.271	8072	04-Nov-13	11042013-002.SSF	155196.6899	11455
722212.527	4294382.288	7570	04-Nov-13	11042013-002.SSF	155197.5801	11456
722213.433	4294382.212	7423	04-Nov-13	11042013-002.SSF	155198.614	11457
722214.207	4294382.246	7370	04-Nov-13	11042013-002.SSF	155199.5959	11458
722214.965	4294382.251	7543	04-Nov-13	11042013-002.SSF	155200.6509	11459
722215.131	4294382.115	7910	04-Nov-13	11042013-002.SSF	155201.5549	11460
722214.618	4294382.299	7179	04-Nov-13	11042013-002.SSF	155202.657	11461
722214.27	4294382.806	7083	04-Nov-13	11042013-002.SSF	155203.562	11462
722214.315	4294383.802	7974	04-Nov-13	11042013-002.SSF	155204.7051	11463
722214.394	4294384.808	8205	04-Nov-13	11042013-002.SSF	155205.6709	11464
722214.263	4294385.965	8838	04-Nov-13	11042013-002.SSF	155206.6721	11465
722213.792	4294387.022	8211	04-Nov-13	11042013-002.SSF	155207.6111	11466
722213.097	4294388.23	7769	04-Nov-13	11042013-002.SSF	155208.7229	11467
722212.841	4294388.975	7917	04-Nov-13	11042013-002.SSF	155209.6189	11468
722212.833	4294389.94	8301	04-Nov-13	11042013-002.SSF	155210.7009	11469
722213.066	4294390.722	8171	04-Nov-13	11042013-002.SSF	155211.6609	11470
722213.628	4294391.215	8346	04-Nov-13	11042013-002.SSF	155212.666	11471
722214.38	4294391.166	8580	04-Nov-13	11042013-002.SSF	155213.655	11472
722214.991	4294390.802	8141	04-Nov-13	11042013-002.SSF	155214.7061	11473
722215.295	4294390.505	7947	04-Nov-13	11042013-002.SSF	155215.5659	11474
722216.055	4294390.201	7500	04-Nov-13	11042013-002.SSF	155216.6721	11475
722216.938	4294389.872	7646	04-Nov-13	11042013-002.SSF	155217.5691	11476
722217.956	4294389.452	7533	04-Nov-13	11042013-002.SSF	155218.637	11477
722218.635	4294389.159	8010	04-Nov-13	11042013-002.SSF	155219.511	11478
722219.339	4294388.839	7490	04-Nov-13	11042013-002.SSF	155220.595	11479
722220.113	4294388.625	8008	04-Nov-13	11042013-002.SSF	155221.5581	11480
722220.914	4294388.459	7894	04-Nov-13	11042013-002.SSF	155222.6001	11481
722221.409	4294388.237	7710	04-Nov-13	11042013-002.SSF	155223.5381	11482
722222.047	4294387.841	7765	04-Nov-13	11042013-002.SSF	155224.603	11483
722222.749	4294387.37	7262	04-Nov-13	11042013-002.SSF	155225.563	11484
722223.401	4294386.981	7677	04-Nov-13	11042013-002.SSF	155226.634	11485
722223.906	4294386.776	7843	04-Nov-13	11042013-002.SSF	155227.6331	11486
722224.315	4294386.551	7832	04-Nov-13	11042013-002.SSF	155228.626	11487
722224.831	4294386.368	7818	04-Nov-13	11042013-002.SSF	155229.553	11488
722225.487	4294385.999	7667	04-Nov-13	11042013-002.SSF	155230.5959	11489
722226.296	4294385.585	7808	04-Nov-13	11042013-002.SSF	155231.5491	11490

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722227.369	4294385.291	8074	04-Nov-13	11042013-002.SSF	155232.6421	11491
722228.136	4294385.099	8164	04-Nov-13	11042013-002.SSF	155233.5449	11492
722228.85	4294384.786	8777	04-Nov-13	11042013-002.SSF	155234.605	11493
722229.316	4294384.482	8507	04-Nov-13	11042013-002.SSF	155235.5801	11494
722229.877	4294384.169	8437	04-Nov-13	11042013-002.SSF	155236.678	11495
722230.358	4294383.924	8533	04-Nov-13	11042013-002.SSF	155237.575	11496
722231.065	4294383.555	8355	04-Nov-13	11042013-002.SSF	155238.6431	11497
722231.666	4294383.05	8524	04-Nov-13	11042013-002.SSF	155239.5811	11498
722232.102	4294382.365	8755	04-Nov-13	11042013-002.SSF	155240.668	11499
722232.223	4294381.771	8554	04-Nov-13	11042013-002.SSF	155241.6479	11500
722232.262	4294381.343	8607	04-Nov-13	11042013-002.SSF	155242.6389	11501
722232.033	4294381.383	8501	04-Nov-13	11042013-002.SSF	155243.6201	11502
722231.477	4294381.688	7804	04-Nov-13	11042013-002.SSF	155244.6731	11503
722231.002	4294381.9	7817	04-Nov-13	11042013-002.SSF	155245.6211	11504
722230.672	4294382.076	7862	04-Nov-13	11042013-002.SSF	155246.658	11505
722230.304	4294382.22	8292	04-Nov-13	11042013-002.SSF	155247.521	11506
722229.63	4294382.601	8354	04-Nov-13	11042013-002.SSF	155248.657	11507
722228.985	4294382.964	8809	04-Nov-13	11042013-002.SSF	155249.6089	11508
722228.3	4294383.248	8637	04-Nov-13	11042013-002.SSF	155250.6589	11509
722227.861	4294383.375	7993	04-Nov-13	11042013-002.SSF	155251.6399	11510
722227.366	4294383.498	7526	04-Nov-13	11042013-002.SSF	155252.6621	11511
722226.907	4294383.762	8208	04-Nov-13	11042013-002.SSF	155253.5701	11512
722226.052	4294384.113	8337	04-Nov-13	11042013-002.SSF	155254.7119	11513
722225.315	4294384.433	8102	04-Nov-13	11042013-002.SSF	155255.5979	11514
722224.64	4294384.843	8457	04-Nov-13	11042013-002.SSF	155256.698	11515
722223.918	4294385.087	8709	04-Nov-13	11042013-002.SSF	155257.6289	11516
722223.026	4294385.361	8334	04-Nov-13	11042013-002.SSF	155258.6919	11517
722222.389	4294385.769	7785	04-Nov-13	11042013-002.SSF	155259.5869	11518
722221.578	4294386.343	8346	04-Nov-13	11042013-002.SSF	155260.6189	11519
722220.729	4294386.845	7830	04-Nov-13	11042013-002.SSF	155261.5149	11520
722219.857	4294387.255	8034	04-Nov-13	11042013-002.SSF	155262.604	11521
722219.141	4294387.458	8509	04-Nov-13	11042013-002.SSF	155263.532	11522
722218.571	4294387.646	7846	04-Nov-13	11042013-002.SSF	155264.613	11523
722218.089	4294387.824	7773	04-Nov-13	11042013-002.SSF	155265.5071	11524
722217.413	4294388.108	7740	04-Nov-13	11042013-002.SSF	155266.6321	11525
722216.724	4294388.274	7571	04-Nov-13	11042013-002.SSF	155267.5071	11526
722215.792	4294388.483	7799	04-Nov-13	11042013-002.SSF	155268.614	11527
722215.289	4294388.518	8062	04-Nov-13	11042013-002.SSF	155269.52	11528
722214.698	4294388.28	8149	04-Nov-13	11042013-002.SSF	155270.6079	11529
722214.334	4294387.925	7854	04-Nov-13	11042013-002.SSF	155271.5439	11530
722214.243	4294387.812	7860	04-Nov-13	11042013-002.SSF	155272.6111	11531
722214.262	4294387.936	7586	04-Nov-13	11042013-002.SSF	155273.4771	11532
722214.254	4294388.028	6990	04-Nov-13	11042013-002.SSF	155274.5549	11533
722214.205	4294387.988	8019	04-Nov-13	11042013-002.SSF	155275.5339	11534
722214.121	4294388.058	8531	04-Nov-13	11042013-002.SSF	155276.7	11535
722214.021	4294388.244	8091	04-Nov-13	11042013-002.SSF	155277.5801	11536
722213.976	4294388.304	8541	04-Nov-13	11042013-002.SSF	155278.675	11537

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722214.237	4294388.212	8614	04-Nov-13	11042013-002.SSF	155279.5601	11538
722214.638	4294388.146	8655	04-Nov-13	11042013-002.SSF	155280.574	11539
722215.056	4294388.037	8198	04-Nov-13	11042013-002.SSF	155281.4829	11540
722215.555	4294387.812	8212	04-Nov-13	11042013-002.SSF	155282.5769	11541
722216.021	4294387.541	8129	04-Nov-13	11042013-002.SSF	155283.532	11542
722216.632	4294387.074	8067	04-Nov-13	11042013-002.SSF	155284.5439	11543
722217.378	4294386.571	8400	04-Nov-13	11042013-002.SSF	155285.5559	11544
722218.234	4294386.194	8370	04-Nov-13	11042013-002.SSF	155286.689	11545
722218.676	4294385.991	8713	04-Nov-13	11042013-002.SSF	155287.5439	11546
722219.101	4294385.753	8981	04-Nov-13	11042013-002.SSF	155288.6169	11547
722219.468	4294385.538	9589	04-Nov-13	11042013-002.SSF	155289.613	11548
722219.923	4294385.186	9744	04-Nov-13	11042013-002.SSF	155290.644	11549
722220.25	4294384.898	9748	04-Nov-13	11042013-002.SSF	155291.563	11550
722220.519	4294384.662	9458	04-Nov-13	11042013-002.SSF	155292.6809	11551
722220.54	4294384.606	9220	04-Nov-13	11042013-002.SSF	155293.626	11552
722220.435	4294384.626	9393	04-Nov-13	11042013-002.SSF	155294.7119	11553
722220.455	4294384.774	8824	04-Nov-13	11042013-002.SSF	155295.6321	11554
722220.349	4294385.038	9103	04-Nov-13	11042013-002.SSF	155296.7319	11555
722220.2	4294385.128	9388	04-Nov-13	11042013-002.SSF	155297.5879	11556
722220.238	4294385.111	9368	04-Nov-13	11042013-002.SSF	155298.6621	11557
722220.581	4294384.912	8742	04-Nov-13	11042013-002.SSF	155299.5581	11558
722221.262	4294384.542	8165	04-Nov-13	11042013-002.SSF	155300.6279	11559
722221.937	4294384.251	7960	04-Nov-13	11042013-002.SSF	155301.5249	11560
722222.759	4294383.905	8280	04-Nov-13	11042013-002.SSF	155302.6289	11561
722223.325	4294383.634	7987	04-Nov-13	11042013-002.SSF	155303.53	11562
722223.9	4294383.351	8603	04-Nov-13	11042013-002.SSF	155304.676	11563
722224.502	4294383.2	8544	04-Nov-13	11042013-002.SSF	155305.5439	11564
722225.268	4294383.115	8713	04-Nov-13	11042013-002.SSF	155306.5459	11565
722226.058	4294383.037	8388	04-Nov-13	11042013-002.SSF	155307.5471	11566
722226.906	4294382.908	8228	04-Nov-13	11042013-002.SSF	155308.551	11567
722227.601	4294382.738	8618	04-Nov-13	11042013-002.SSF	155309.4939	11568
722228.296	4294382.426	8155	04-Nov-13	11042013-002.SSF	155310.6089	11569
722228.751	4294382.107	8000	04-Nov-13	11042013-002.SSF	155311.4939	11570
722229.38	4294381.659	8415	04-Nov-13	11042013-002.SSF	155312.6919	11571
722229.86	4294381.38	7710	04-Nov-13	11042013-002.SSF	155313.592	11572
722230.517	4294381.082	7862	04-Nov-13	11042013-002.SSF	155314.6521	11573
722231.002	4294380.899	7955	04-Nov-13	11042013-002.SSF	155315.5259	11574
722231.706	4294380.835	8044	04-Nov-13	11042013-002.SSF	155316.6179	11575
722232.078	4294380.792	8177	04-Nov-13	11042013-002.SSF	155317.469	11576
722232.382	4294380.509	8695	04-Nov-13	11042013-002.SSF	155318.665	11577
722232.505	4294380.213	8243	04-Nov-13	11042013-002.SSF	155319.521	11578
722232.337	4294380.123	8274	04-Nov-13	11042013-002.SSF	155320.5979	11579
722231.839	4294380.301	7759	04-Nov-13	11042013-002.SSF	155321.5649	11580
722231.311	4294380.618	8009	04-Nov-13	11042013-002.SSF	155322.5759	11581
722231.046	4294380.907	7985	04-Nov-13	11042013-002.SSF	155323.521	11582
722230.523	4294381.125	7746	04-Nov-13	11042013-002.SSF	155324.647	11583
722229.837	4294381.343	7597	04-Nov-13	11042013-002.SSF	155325.603	11584

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722228.236	4294381.897	8018	04-Nov-13	11042013-002.SSF	155327.563	11586
722227.717	4294382.248	8222	04-Nov-13	11042013-002.SSF	155328.6279	11587
722227.16	4294382.605	8877	04-Nov-13	11042013-002.SSF	155329.605	11588
722226.588	4294383.077	8728	04-Nov-13	11042013-002.SSF	155330.6331	11589
722226.304	4294383.356	9065	04-Nov-13	11042013-002.SSF	155331.48	11590
722225.962	4294383.459	8556	04-Nov-13	11042013-002.SSF	155332.636	11591
722225.755	4294383.45	8555	04-Nov-13	11042013-002.SSF	155333.5081	11592
722225.536	4294383.586	7970	04-Nov-13	11042013-002.SSF	155334.55	11593
722225.165	4294383.899	8053	04-Nov-13	11042013-002.SSF	155335.5259	11594
722224.774	4294384.259	7882	04-Nov-13	11042013-002.SSF	155336.644	11595
722224.41	4294384.56	8318	04-Nov-13	11042013-002.SSF	155337.501	11596
722223.541	4294384.936	7979	04-Nov-13	11042013-002.SSF	155338.604	11597
722222.825	4294385.088	8358	04-Nov-13	11042013-002.SSF	155339.491	11598
722221.997	4294385.161	8571	04-Nov-13	11042013-002.SSF	155340.7271	11599
722221.448	4294385.274	8421	04-Nov-13	11042013-002.SSF	155341.6111	11600
722221.117	4294385.342	8419	04-Nov-13	11042013-002.SSF	155342.6831	11601
722220.719	4294385.497	8298	04-Nov-13	11042013-002.SSF	155343.5471	11602
722220.053	4294385.752	7555	04-Nov-13	11042013-002.SSF	155344.636	11603
722219.363	4294386.067	7872	04-Nov-13	11042013-002.SSF	155345.604	11604
722218.801	4294386.385	7998	04-Nov-13	11042013-002.SSF	155346.6541	11605
722218.188	4294386.503	7754	04-Nov-13	11042013-002.SSF	155347.603	11606
722217.377	4294386.647	7939	04-Nov-13	11042013-002.SSF	155348.6599	11607
722216.769	4294386.862	7750	04-Nov-13	11042013-002.SSF	155349.623	11608
722216.064	4294386.91	7479	04-Nov-13	11042013-002.SSF	155350.7141	11609
722215.209	4294386.846	7807	04-Nov-13	11042013-002.SSF	155351.582	11610
722214.549	4294386.847	7646	04-Nov-13	11042013-002.SSF	155352.626	11611
722214.585	4294386.711	7946	04-Nov-13	11042013-002.SSF	155353.5371	11612
722214.88	4294386.245	7537	04-Nov-13	11042013-002.SSF	155354.625	11613
722215.205	4294385.659	7873	04-Nov-13	11042013-002.SSF	155355.5391	11614
722215.625	4294384.937	8054	04-Nov-13	11042013-002.SSF	155356.522	11615
722216.085	4294384.408	8340	04-Nov-13	11042013-002.SSF	155357.5239	11616
722216.701	4294384.109	8343	04-Nov-13	11042013-002.SSF	155358.5339	11617
722217.406	4294383.806	8406	04-Nov-13	11042013-002.SSF	155359.4829	11618
722218.214	4294383.383	9191	04-Nov-13	11042013-002.SSF	155360.606	11619
722219.055	4294383.042	9143	04-Nov-13	11042013-002.SSF	155361.551	11620
722220.166	4294382.825	9679	04-Nov-13	11042013-002.SSF	155362.6541	11621
722220.916	4294382.603	9449	04-Nov-13	11042013-002.SSF	155363.5549	11622
722221.756	4294382.141	8922	04-Nov-13	11042013-002.SSF	155364.655	11623
722222.428	4294381.718	8356	04-Nov-13	11042013-002.SSF	155365.5359	11624
722223.018	4294381.262	8630	04-Nov-13	11042013-002.SSF	155366.606	11625
722223.57	4294380.98	8379	04-Nov-13	11042013-002.SSF	155367.5149	11626
722224.333	4294380.78	8808	04-Nov-13	11042013-002.SSF	155368.6121	11627
722224.84	4294380.665	8464	04-Nov-13	11042013-002.SSF	155369.4751	11628
722225.457	4294380.454	8699	04-Nov-13	11042013-002.SSF	155370.613	11629
722225.837	4294380.401	8253	04-Nov-13	11042013-002.SSF	155371.605	11630
722226.329	4294380.356	8445	04-Nov-13	11042013-002.SSF	155372.646	11631

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722226.984	4294380.102	8207	04-Nov-13	11042013-002.SSF	155373.6069	11632
722227.795	4294379.779	8059	04-Nov-13	11042013-002.SSF	155374.675	11633
722228.437	4294379.673	7901	04-Nov-13	11042013-002.SSF	155375.4861	11634
722229.225	4294379.428	7571	04-Nov-13	11042013-002.SSF	155376.5969	11635
722229.808	4294378.986	7394	04-Nov-13	11042013-002.SSF	155377.4851	11636
722230.495	4294378.484	7676	04-Nov-13	11042013-002.SSF	155378.658	11637
722230.819	4294378.266	7925	04-Nov-13	11042013-002.SSF	155379.5039	11638
722231.175	4294377.927	8035	04-Nov-13	11042013-002.SSF	155380.5969	11639
722231.283	4294377.642	7962	04-Nov-13	11042013-002.SSF	155381.5391	11640
722231.086	4294377.414	8341	04-Nov-13	11042013-002.SSF	155382.5339	11641
722230.783	4294377.306	8359	04-Nov-13	11042013-002.SSF	155383.51	11642
722230.435	4294377.364	8197	04-Nov-13	11042013-002.SSF	155384.53	11643
722229.945	4294377.499	8023	04-Nov-13	11042013-002.SSF	155385.509	11644
722229.208	4294377.752	8570	04-Nov-13	11042013-002.SSF	155386.585	11645
722228.522	4294378.044	8263	04-Nov-13	11042013-002.SSF	155387.521	11646
722227.798	4294378.405	7940	04-Nov-13	11042013-002.SSF	155388.5959	11647
722227.426	4294378.719	8089	04-Nov-13	11042013-002.SSF	155389.459	11648
722227.038	4294379.162	7880	04-Nov-13	11042013-002.SSF	155390.5979	11649
722226.687	4294379.623	8370	04-Nov-13	11042013-002.SSF	155391.575	11650
722226.13	4294380.15	7873	04-Nov-13	11042013-002.SSF	155392.6809	11651
722225.627	4294380.527	7608	04-Nov-13	11042013-002.SSF	155393.572	11652
722225.256	4294380.934	8592	04-Nov-13	11042013-002.SSF	155394.6211	11653
722225.007	4294381.245	8740	04-Nov-13	11042013-002.SSF	155395.509	11654
722224.603	4294381.79	8134	04-Nov-13	11042013-002.SSF	155396.6201	11655
722224.245	4294382.337	7845	04-Nov-13	11042013-002.SSF	155397.5139	11656
722223.795	4294383.114	7668	04-Nov-13	11042013-002.SSF	155398.6211	11657
722223.487	4294383.74	7635	04-Nov-13	11042013-002.SSF	155399.5161	11658
722223.03	4294384.335	7940	04-Nov-13	11042013-002.SSF	155400.5801	11659
722222.473	4294384.765	8073	04-Nov-13	11042013-002.SSF	155401.5879	11660
722221.694	4294385.216	7856	04-Nov-13	11042013-002.SSF	155402.6641	11661
722220.952	4294385.693	8311	04-Nov-13	11042013-002.SSF	155403.582	11662
722220.169	4294386.353	8230	04-Nov-13	11042013-002.SSF	155404.6389	11663
722219.642	4294386.864	8259	04-Nov-13	11042013-002.SSF	155405.5029	11664
722219.073	4294387.377	8186	04-Nov-13	11042013-002.SSF	155406.553	11665
722218.511	4294387.8	7814	04-Nov-13	11042013-002.SSF	155407.5291	11666
722217.759	4294388.237	8123	04-Nov-13	11042013-002.SSF	155408.592	11667
722216.972	4294388.578	8334	04-Nov-13	11042013-002.SSF	155409.5381	11668
722216.207	4294388.889	8220	04-Nov-13	11042013-002.SSF	155410.593	11669
722215.826	4294389.026	7946	04-Nov-13	11042013-002.SSF	155411.4529	11670
722215.215	4294389.025	7942	04-Nov-13	11042013-002.SSF	155412.5381	11671
722214.565	4294388.735	8277	04-Nov-13	11042013-002.SSF	155413.5239	11672
722214.086	4294388.04	8571	04-Nov-13	11042013-002.SSF	155414.585	11673
722213.517	4294387.309	8308	04-Nov-13	11042013-002.SSF	155415.4919	11674
722212.686	4294386.527	8206	04-Nov-13	11042013-002.SSF	155416.5701	11675
722212.156	4294385.882	8141	04-Nov-13	11042013-002.SSF	155417.542	11676
722211.824	4294385.135	8276	04-Nov-13	11042013-002.SSF	155418.5649	11677
722211.929	4294384.519	8728	04-Nov-13	11042013-002.SSF	155419.543	11678

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722212.965	4294383.309	8635	04-Nov-13	11042013-002.SSF	155421.498	11680
722213.779	4294382.724	8749	04-Nov-13	11042013-002.SSF	155422.5879	11681
722214.55	4294382.47	8079	04-Nov-13	11042013-002.SSF	155423.4771	11682
722215.301	4294382.374	7987	04-Nov-13	11042013-002.SSF	155424.5769	11683
722216.041	4294382.227	7912	04-Nov-13	11042013-002.SSF	155425.4839	11684
722217.242	4294381.959	7241	04-Nov-13	11042013-002.SSF	155426.6699	11685
722217.984	4294381.762	7635	04-Nov-13	11042013-002.SSF	155427.521	11686
722219.007	4294381.453	7482	04-Nov-13	11042013-002.SSF	155428.6731	11687
722219.69	4294381.231	7688	04-Nov-13	11042013-002.SSF	155429.4929	11688
722220.504	4294380.874	7752	04-Nov-13	11042013-002.SSF	155430.603	11689
722221.225	4294380.577	7533	04-Nov-13	11042013-002.SSF	155431.5129	11690
722222.159	4294380.221	7942	04-Nov-13	11042013-002.SSF	155432.5901	11691
722222.744	4294379.931	8022	04-Nov-13	11042013-002.SSF	155433.4819	11692
722223.464	4294379.606	8015	04-Nov-13	11042013-002.SSF	155434.562	11693
722224.093	4294379.391	7778	04-Nov-13	11042013-002.SSF	155435.5061	11694
722224.698	4294379.315	8020	04-Nov-13	11042013-002.SSF	155436.6021	11695
722225.196	4294379.221	8246	04-Nov-13	11042013-002.SSF	155437.541	11696
722225.834	4294379.047	7676	04-Nov-13	11042013-002.SSF	155438.5991	11697
722226.353	4294379.005	8007	04-Nov-13	11042013-002.SSF	155439.5229	11698
722226.841	4294379.006	7609	04-Nov-13	11042013-002.SSF	155440.5139	11699
722227.316	4294378.855	7422	04-Nov-13	11042013-002.SSF	155441.457	11700
722227.775	4294378.596	8045	04-Nov-13	11042013-002.SSF	155442.561	11701
722228.134	4294378.412	8253	04-Nov-13	11042013-002.SSF	155443.4331	11702
722228.5	4294378.193	8115	04-Nov-13	11042013-002.SSF	155444.531	11703
722228.857	4294378.076	8104	04-Nov-13	11042013-002.SSF	155445.481	11704
722229.387	4294377.862	7596	04-Nov-13	11042013-002.SSF	155446.5891	11705
722229.92	4294377.633	7078	04-Nov-13	11042013-002.SSF	155447.4839	11706
722230.678	4294377.253	7671	04-Nov-13	11042013-002.SSF	155448.5459	11707
722231.34	4294376.872	8012	04-Nov-13	11042013-002.SSF	155449.4729	11708
722231.986	4294376.403	8302	04-Nov-13	11042013-002.SSF	155450.5901	11709
722231.799	4294375.926	8367	04-Nov-13	11042013-002.SSF	155452.5139	11711
722231.193	4294375.914	8036	04-Nov-13	11042013-002.SSF	155453.4409	11712
722230.431	4294376.431	8548	04-Nov-13	11042013-002.SSF	155454.5559	11713
722229.809	4294376.969	8145	04-Nov-13	11042013-002.SSF	155455.5701	11714
722229.336	4294377.502	8354	04-Nov-13	11042013-002.SSF	155456.6021	11715
722228.906	4294377.833	8494	04-Nov-13	11042013-002.SSF	155457.593	11716
722228.416	4294378.133	8333	04-Nov-13	11042013-002.SSF	155458.6479	11717
722228.14	4294378.37	8160	04-Nov-13	11042013-002.SSF	155459.521	11718
722227.799	4294378.559	8272	04-Nov-13	11042013-002.SSF	155460.5811	11719
722227.374	4294378.816	8200	04-Nov-13	11042013-002.SSF	155461.4741	11720
722226.641	4294379.261	8377	04-Nov-13	11042013-002.SSF	155462.5901	11721
722226.065	4294379.595	8297	04-Nov-13	11042013-002.SSF	155463.446	11722
722225.55	4294379.933	8237	04-Nov-13	11042013-002.SSF	155464.6101	11723
722225.104	4294380.157	7663	04-Nov-13	11042013-002.SSF	155465.498	11724
722224.269	4294380.657	7835	04-Nov-13	11042013-002.SSF	155466.572	11725
722223.487	4294381.096	8382	04-Nov-13	11042013-002.SSF	155467.4929	11726

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722222.652	4294381.369	8645	04-Nov-13	11042013-002.SSF	155468.5439	11727
722222.085	4294381.523	8583	04-Nov-13	11042013-002.SSF	155469.4871	11728
722221.319	4294381.736	8885	04-Nov-13	11042013-002.SSF	155470.603	11729
722220.696	4294382.078	8913	04-Nov-13	11042013-002.SSF	155471.5049	11730
722219.695	4294382.574	8703	04-Nov-13	11042013-002.SSF	155472.6509	11731
722218.852	4294382.894	8300	04-Nov-13	11042013-002.SSF	155473.5071	11732
722218.184	4294383.056	8651	04-Nov-13	11042013-002.SSF	155474.6509	11733
722217.602	4294383.001	9186	04-Nov-13	11042013-002.SSF	155475.4829	11734
722216.588	4294383.02	8760	04-Nov-13	11042013-002.SSF	155476.5701	11735
722215.82	4294383.133	8310	04-Nov-13	11042013-002.SSF	155477.574	11736
722215.193	4294383.263	8652	04-Nov-13	11042013-002.SSF	155478.572	11737
722214.645	4294383.345	8564	04-Nov-13	11042013-002.SSF	155479.511	11738
722213.767	4294383.365	9017	04-Nov-13	11042013-002.SSF	155480.614	11739
722212.832	4294383.502	9160	04-Nov-13	11042013-002.SSF	155481.583	11740
722212.027	4294383.781	8205	04-Nov-13	11042013-002.SSF	155482.6311	11741
722211.487	4294383.864	8327	04-Nov-13	11042013-002.SSF	155483.489	11742
722210.547	4294383.745	8381	04-Nov-13	11042013-002.SSF	155484.627	11743
722209.725	4294383.594	8794	04-Nov-13	11042013-002.SSF	155485.489	11744
722208.747	4294383.149	8712	04-Nov-13	11042013-002.SSF	155486.625	11745
722208.361	4294382.598	8478	04-Nov-13	11042013-002.SSF	155487.491	11746
722208.185	4294381.921	8916	04-Nov-13	11042013-002.SSF	155488.5969	11747
722208.155	4294381.522	8967	04-Nov-13	11042013-002.SSF	155489.552	11748
722208.336	4294381.316	9351	04-Nov-13	11042013-002.SSF	155490.4871	11749
722208.777	4294381.208	9063	04-Nov-13	11042013-002.SSF	155491.46	11750
722209.433	4294381.022	8960	04-Nov-13	11042013-002.SSF	155492.5271	11751
722209.974	4294380.824	8437	04-Nov-13	11042013-002.SSF	155493.4231	11752
722210.676	4294380.604	8661	04-Nov-13	11042013-002.SSF	155494.4919	11753
722211.418	4294380.312	8644	04-Nov-13	11042013-002.SSF	155495.4761	11754
722212.295	4294379.953	8725	04-Nov-13	11042013-002.SSF	155496.623	11755
722213.084	4294379.776	8988	04-Nov-13	11042013-002.SSF	155497.5239	11756
722214.001	4294379.491	8700	04-Nov-13	11042013-002.SSF	155498.5811	11757
722214.929	4294379.14	8621	04-Nov-13	11042013-002.SSF	155499.5371	11758
722215.903	4294378.718	8254	04-Nov-13	11042013-002.SSF	155500.5979	11759
722216.408	4294378.604	8153	04-Nov-13	11042013-002.SSF	155501.5349	11760
722216.968	4294378.707	8201	04-Nov-13	11042013-002.SSF	155502.606	11761
722217.411	4294378.774	7673	04-Nov-13	11042013-002.SSF	155503.49	11762
722217.976	4294378.791	8081	04-Nov-13	11042013-002.SSF	155504.551	11763
722219.228	4294378.523	8335	04-Nov-13	11042013-002.SSF	155506.5491	11765
722220.116	4294378.362	7951	04-Nov-13	11042013-002.SSF	155507.439	11766
722220.949	4294378.14	7967	04-Nov-13	11042013-002.SSF	155508.5449	11767
722221.282	4294377.939	8351	04-Nov-13	11042013-002.SSF	155509.427	11768
722221.902	4294377.761	8260	04-Nov-13	11042013-002.SSF	155510.5779	11769
722222.511	4294377.666	7818	04-Nov-13	11042013-002.SSF	155511.4751	11770
722223.221	4294377.302	8118	04-Nov-13	11042013-002.SSF	155512.644	11771
722223.865	4294377.011	8234	04-Nov-13	11042013-002.SSF	155513.5129	11772
722224.935	4294376.786	7931	04-Nov-13	11042013-002.SSF	155514.6121	11773
722225.684	4294376.635	8204	04-Nov-13	11042013-002.SSF	155515.5029	11774

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722226.464	4294376.293	8034	04-Nov-13	11042013-002.SSF	155516.585	11775
722227.298	4294375.917	7774	04-Nov-13	11042013-002.SSF	155517.5649	11776
722228.145	4294375.59	7778	04-Nov-13	11042013-002.SSF	155518.5569	11777
722228.75	4294375.441	7607	04-Nov-13	11042013-002.SSF	155519.533	11778
722229.215	4294375.442	7804	04-Nov-13	11042013-002.SSF	155520.6001	11779
722229.398	4294375.725	8065	04-Nov-13	11042013-002.SSF	155521.531	11780
722229.248	4294376.681	8706	04-Nov-13	11042013-002.SSF	155522.647	11781
722229.231	4294377.732	9127	04-Nov-13	11042013-002.SSF	155523.55	11782
722229.455	4294378.924	9266	04-Nov-13	11042013-002.SSF	155524.6001	11783
722229.649	4294379.834	9015	04-Nov-13	11042013-002.SSF	155525.4861	11784
722229.775	4294380.972	8528	04-Nov-13	11042013-002.SSF	155526.543	11785
722229.902	4294381.904	7752	04-Nov-13	11042013-002.SSF	155527.407	11786
722230.334	4294382.952	7653	04-Nov-13	11042013-002.SSF	155528.574	11787
722230.81	4294383.736	7740	04-Nov-13	11042013-002.SSF	155529.4861	11788
722231.276	4294384.833	7271	04-Nov-13	11042013-002.SSF	155530.5691	11789
722231.591	4294385.666	7480	04-Nov-13	11042013-002.SSF	155531.4399	11790
722232.073	4294386.473	8010	04-Nov-13	11042013-002.SSF	155532.5291	11791
722232.451	4294387.085	8488	04-Nov-13	11042013-002.SSF	155533.47	11792
722232.703	4294387.791	8442	04-Nov-13	11042013-002.SSF	155534.531	11793
722233.173	4294388.102	8063	04-Nov-13	11042013-002.SSF	155535.5349	11794
722233.796	4294388.186	8323	04-Nov-13	11042013-002.SSF	155536.6389	11795
722234.215	4294388.422	8117	04-Nov-13	11042013-002.SSF	155537.5371	11796
722234.582	4294388.762	7865	04-Nov-13	11042013-002.SSF	155538.5869	11797
722234.767	4294389.116	8017	04-Nov-13	11042013-002.SSF	155539.4561	11798
722234.86	4294389.655	8184	04-Nov-13	11042013-002.SSF	155540.5681	11799
722234.754	4294390.044	7769	04-Nov-13	11042013-002.SSF	155541.429	11800
722234.793	4294390.729	7392	04-Nov-13	11042013-002.SSF	155542.5911	11801
722234.839	4294391.332	7495	04-Nov-13	11042013-002.SSF	155543.429	11802
722234.866	4294391.989	7861	04-Nov-13	11042013-002.SSF	155544.479	11803
722234.978	4294392.474	7549	04-Nov-13	11042013-002.SSF	155545.4871	11804
722235.103	4294393.127	7921	04-Nov-13	11042013-002.SSF	155546.593	11805
722235.235	4294393.788	7763	04-Nov-13	11042013-002.SSF	155547.489	11806
722235.446	4294394.47	7577	04-Nov-13	11042013-002.SSF	155548.5969	11807
722235.826	4294394.754	7577	04-Nov-13	11042013-002.SSF	155549.4839	11808
722236.189	4294395.185	7599	04-Nov-13	11042013-002.SSF	155550.6499	11809
722236.323	4294395.555	7162	04-Nov-13	11042013-002.SSF	155551.511	11810
722236.425	4294395.591	6893	04-Nov-13	11042013-002.SSF	155552.627	11811
722236.508	4294395.613	6870	04-Nov-13	11042013-002.SSF	155553.4929	11812
722236.861	4294395.962	7584	04-Nov-13	11042013-002.SSF	155554.624	11813
722237.141	4294396.305	7589	04-Nov-13	11042013-002.SSF	155555.4629	11814
722237.298	4294396.667	7538	04-Nov-13	11042013-002.SSF	155556.5371	11815
722237.333	4294396.964	7248	04-Nov-13	11042013-002.SSF	155557.4209	11816
722237.408	4294397.539	8052	04-Nov-13	11042013-002.SSF	155558.511	11817
722237.518	4294398.234	7851	04-Nov-13	11042013-002.SSF	155559.4971	11818
722237.733	4294398.902	7536	04-Nov-13	11042013-002.SSF	155560.6101	11819
722237.755	4294399.388	7756	04-Nov-13	11042013-002.SSF	155561.52	11820
722237.636	4294400.164	7648	04-Nov-13	11042013-002.SSF	155562.564	11821

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722237.49	4294401.471	8191	04-Nov-13	11042013-002.SSF	155564.5669	11823
722237.251	4294401.826	8365	04-Nov-13	11042013-002.SSF	155565.4871	11824
722236.942	4294402.039	8463	04-Nov-13	11042013-002.SSF	155566.499	11825
722236.887	4294402.112	8157	04-Nov-13	11042013-002.SSF	155567.4939	11826
722236.808	4294402.552	7963	04-Nov-13	11042013-002.SSF	155568.489	11827
722236.675	4294403.16	8589	04-Nov-13	11042013-002.SSF	155569.4971	11828
722236.698	4294403.629	8724	04-Nov-13	11042013-002.SSF	155570.5291	11829
722237.029	4294404.094	8979	04-Nov-13	11042013-002.SSF	155571.4719	11830
722237.524	4294404.355	8808	04-Nov-13	11042013-002.SSF	155572.5381	11831
722237.907	4294404.607	8719	04-Nov-13	11042013-002.SSF	155573.4919	11832
722237.985	4294404.704	8325	04-Nov-13	11042013-002.SSF	155574.5481	11833
722237.785	4294404.56	7862	04-Nov-13	11042013-002.SSF	155575.428	11834
722237.59	4294404.393	7782	04-Nov-13	11042013-002.SSF	155576.467	11835
722237.289	4294404.276	8352	04-Nov-13	11042013-002.SSF	155577.449	11836
722236.822	4294404.25	8613	04-Nov-13	11042013-002.SSF	155578.561	11837
722236.604	4294404.304	8100	04-Nov-13	11042013-002.SSF	155579.397	11838
722236.515	4294404.412	7398	04-Nov-13	11042013-002.SSF	155580.5239	11839
722236.505	4294404.481	7642	04-Nov-13	11042013-002.SSF	155581.4851	11840
722236.57	4294404.51	8078	04-Nov-13	11042013-002.SSF	155582.5259	11841
722236.633	4294404.545	8436	04-Nov-13	11042013-002.SSF	155583.47	11842
722236.721	4294404.569	8135	04-Nov-13	11042013-002.SSF	155584.5049	11843
722236.833	4294404.566	8348	04-Nov-13	11042013-002.SSF	155585.48	11844
722236.833	4294404.854	8056	04-Nov-13	11042013-002.SSF	155586.6021	11845
722236.873	4294405.127	7962	04-Nov-13	11042013-002.SSF	155587.5061	11846
722236.905	4294405.207	8464	04-Nov-13	11042013-002.SSF	155588.5911	11847
722236.895	4294405.284	8249	04-Nov-13	11042013-002.SSF	155589.5149	11848
722236.881	4294405.3	8825	04-Nov-13	11042013-002.SSF	155590.4971	11849
722236.822	4294405.199	8811	04-Nov-13	11042013-002.SSF	155591.4341	11850
722236.742	4294405.199	8871	04-Nov-13	11042013-002.SSF	155592.499	11851
722236.734	4294405.078	8267	04-Nov-13	11042013-002.SSF	155593.4299	11852
722236.827	4294404.908	8625	04-Nov-13	11042013-002.SSF	155594.502	11853
722236.944	4294405.13	8939	04-Nov-13	11042013-002.SSF	155595.3931	11854
722237.056	4294405.519	8703	04-Nov-13	11042013-002.SSF	155596.5559	11855
722237.05	4294405.656	9020	04-Nov-13	11042013-002.SSF	155597.3999	11856
722237.105	4294405.763	9094	04-Nov-13	11042013-002.SSF	155598.491	11857
722237.155	4294405.863	8407	04-Nov-13	11042013-002.SSF	155599.446	11858
722237.129	4294405.931	8029	04-Nov-13	11042013-002.SSF	155600.593	11859
722237.1	4294405.881	7876	04-Nov-13	11042013-002.SSF	155601.5339	11860
722237.059	4294405.774	8713	04-Nov-13	11042013-002.SSF	155602.585	11861
722237.088	4294405.528	8763	04-Nov-13	11042013-002.SSF	155603.5349	11862
722236.998	4294405.214	8589	04-Nov-13	11042013-002.SSF	155604.6399	11863
722236.845	4294404.979	8296	04-Nov-13	11042013-002.SSF	155605.459	11864
722236.757	4294404.703	8026	04-Nov-13	11042013-002.SSF	155606.51	11865
722236.6	4294404.469	8122	04-Nov-13	11042013-002.SSF	155607.4651	11866
722236.27	4294404.2	8221	04-Nov-13	11042013-002.SSF	155608.564	11867
722236.11	4294404.185	8202	04-Nov-13	11042013-002.SSF	155609.4109	11868

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722235.833	4294404.302	7666	04-Nov-13	11042013-002.SSF	155610.6011	11869
722235.646	4294404.271	7784	04-Nov-13	11042013-002.SSF	155611.5149	11870
722235.651	4294404.135	7236	04-Nov-13	11042013-002.SSF	155612.582	11871
722235.726	4294404.041	7543	04-Nov-13	11042013-002.SSF	155613.437	11872
722235.819	4294403.974	7580	04-Nov-13	11042013-002.SSF	155614.5391	11873
722235.812	4294403.92	7256	04-Nov-13	11042013-002.SSF	155615.406	11874
722235.728	4294403.798	6766	04-Nov-13	11042013-002.SSF	155616.502	11875
722235.716	4294403.64	6708	04-Nov-13	11042013-002.SSF	155617.4021	11876
722235.905	4294403.627	7088	04-Nov-13	11042013-002.SSF	155618.4971	11877
722236.142	4294403.767	7099	04-Nov-13	11042013-002.SSF	155619.459	11878
722236.2	4294403.792	7338	04-Nov-13	11042013-002.SSF	155620.4771	11879
722236.155	4294403.753	6888	04-Nov-13	11042013-002.SSF	155621.3811	11880
722236.069	4294403.681	6724	04-Nov-13	11042013-002.SSF	155622.489	11881
722236.017	4294403.668	7330	04-Nov-13	11042013-002.SSF	155623.3879	11882
722236.027	4294403.748	7993	04-Nov-13	11042013-002.SSF	155624.4651	11883
722236.055	4294403.831	8171	04-Nov-13	11042013-002.SSF	155625.5071	11884
722235.997	4294403.799	8031	04-Nov-13	11042013-002.SSF	155626.595	11885
722235.929	4294403.776	7780	04-Nov-13	11042013-002.SSF	155627.4399	11886
722235.868	4294403.775	7931	04-Nov-13	11042013-002.SSF	155628.5171	11887
722235.78	4294403.664	7851	04-Nov-13	11042013-002.SSF	155629.45	11888
722235.609	4294403.473	7986	04-Nov-13	11042013-002.SSF	155630.4939	11889
722235.456	4294403.365	7830	04-Nov-13	11042013-002.SSF	155631.499	11890
722235.48	4294403.423	8236	04-Nov-13	11042013-002.SSF	155632.4971	11891
722235.565	4294403.445	8810	04-Nov-13	11042013-002.SSF	155633.499	11892
722235.587	4294403.346	8766	04-Nov-13	11042013-002.SSF	155634.4919	11893
722235.577	4294403.27	8561	04-Nov-13	11042013-002.SSF	155635.4951	11894
722235.51	4294403.172	7763	04-Nov-13	11042013-002.SSF	155636.572	11895
722235.56	4294403.2	7966	04-Nov-13	11042013-002.SSF	155637.448	11896
722235.584	4294403.327	8111	04-Nov-13	11042013-002.SSF	155638.5801	11897
722235.47	4294403.286	8125	04-Nov-13	11042013-002.SSF	155639.4519	11898
722235.473	4294403.138	8028	04-Nov-13	11042013-002.SSF	155640.5049	11899
722235.582	4294403.15	8400	04-Nov-13	11042013-002.SSF	155641.418	11900
722235.73	4294403.408	8032	04-Nov-13	11042013-002.SSF	155642.4829	11901
722235.735	4294403.516	8553	04-Nov-13	11042013-002.SSF	155643.45	11902
722235.551	4294403.495	9011	04-Nov-13	11042013-002.SSF	155644.533	11903
722235.455	4294403.569	8684	04-Nov-13	11042013-002.SSF	155645.417	11904
722235.506	4294403.669	8244	04-Nov-13	11042013-002.SSF	155646.439	11905
722235.634	4294403.852	8365	04-Nov-13	11042013-002.SSF	155647.4099	11906
722235.654	4294403.923	8740	04-Nov-13	11042013-002.SSF	155648.418	11907
722235.695	4294403.582	8433	04-Nov-13	11042013-002.SSF	155649.3921	11908
722235.665	4294403.149	8531	04-Nov-13	11042013-002.SSF	155650.458	11909
722235.587	4294402.881	8339	04-Nov-13	11042013-002.SSF	155651.4551	11910
722235.51	4294402.716	7968	04-Nov-13	11042013-002.SSF	155652.4641	11911
722235.451	4294402.6	8059	04-Nov-13	11042013-002.SSF	155653.428	11912
722235.386	4294402.464	8216	04-Nov-13	11042013-002.SSF	155654.4519	11913
722235.271	4294402.235	8079	04-Nov-13	11042013-002.SSF	155655.4341	11914
722234.964	4294402.037	8437	04-Nov-13	11042013-002.SSF	155656.47	11915

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.641	4294402.012	8608	04-Nov-13	11042013-002.SSF	155657.436	11916
722234.482	4294402.104	8404	04-Nov-13	11042013-002.SSF	155658.45	11917
722234.373	4294402.197	8522	04-Nov-13	11042013-002.SSF	155659.4541	11918
722234.43	4294402.234	9054	04-Nov-13	11042013-002.SSF	155660.4199	11919
722234.659	4294402.172	8730	04-Nov-13	11042013-002.SSF	155661.448	11920
722234.887	4294402.022	8555	04-Nov-13	11042013-002.SSF	155662.4771	11921
722235.091	4294401.875	8487	04-Nov-13	11042013-002.SSF	155663.4829	11922
722235.06	4294401.71	8711	04-Nov-13	11042013-002.SSF	155664.5029	11923
722234.856	4294401.592	9130	04-Nov-13	11042013-002.SSF	155665.416	11924
722234.525	4294401.443	9081	04-Nov-13	11042013-002.SSF	155666.4861	11925
722234.151	4294401.236	9030	04-Nov-13	11042013-002.SSF	155667.384	11926
722233.693	4294401.084	9474	04-Nov-13	11042013-002.SSF	155668.467	11927
722233.264	4294401.131	8877	04-Nov-13	11042013-002.SSF	155669.353	11928
722232.808	4294401.318	8990	04-Nov-13	11042013-002.SSF	155670.4851	11929
722232.659	4294401.446	8770	04-Nov-13	11042013-002.SSF	155671.4141	11930
722232.766	4294401.49	8960	04-Nov-13	11042013-002.SSF	155672.4629	11931
722232.669	4294401.665	9240	04-Nov-13	11042013-002.SSF	155673.407	11932
722232.379	4294402.253	8887	04-Nov-13	11042013-002.SSF	155674.4541	11933
722232.252	4294402.702	8524	04-Nov-13	11042013-002.SSF	155675.3711	11934
722232.211	4294402.709	8492	04-Nov-13	11042013-002.SSF	155676.4451	11935
722232.251	4294402.349	8369	04-Nov-13	11042013-002.SSF	155677.3311	11936
722232.318	4294401.785	8255	04-Nov-13	11042013-002.SSF	155678.4651	11937
722232.304	4294401.482	8078	04-Nov-13	11042013-002.SSF	155679.321	11938
722232.233	4294401.323	8376	04-Nov-13	11042013-002.SSF	155680.5791	11939
722232.11	4294401.307	8364	04-Nov-13	11042013-002.SSF	155681.47	11940
722232.022	4294401.315	8170	04-Nov-13	11042013-002.SSF	155682.5291	11941
722232.002	4294401.288	8165	04-Nov-13	11042013-002.SSF	155683.4751	11942
722231.954	4294401.074	8163	04-Nov-13	11042013-002.SSF	155684.5449	11943
722231.929	4294400.632	8356	04-Nov-13	11042013-002.SSF	155685.417	11944
722231.955	4294399.894	8053	04-Nov-13	11042013-002.SSF	155686.531	11945
722231.974	4294399.284	8040	04-Nov-13	11042013-002.SSF	155687.4629	11946
722231.977	4294398.619	8310	04-Nov-13	11042013-002.SSF	155688.5459	11947
722232.004	4294398.079	8461	04-Nov-13	11042013-002.SSF	155689.448	11948
722232.075	4294397.436	8727	04-Nov-13	11042013-002.SSF	155690.5	11949
722232.085	4294396.984	8404	04-Nov-13	11042013-002.SSF	155691.353	11950
722232.087	4294396.46	8207	04-Nov-13	11042013-002.SSF	155692.4541	11951
722232.019	4294395.961	7916	04-Nov-13	11042013-002.SSF	155693.3711	11952
722231.825	4294395.171	7588	04-Nov-13	11042013-002.SSF	155694.4441	11953
722231.795	4294394.387	8198	04-Nov-13	11042013-002.SSF	155695.3979	11954
722231.737	4294393.871	8699	04-Nov-13	11042013-002.SSF	155696.448	11955
722231.65	4294393.552	8095	04-Nov-13	11042013-002.SSF	155697.3279	11956
722231.495	4294392.892	8356	04-Nov-13	11042013-002.SSF	155698.489	11957
722231.358	4294392.387	8353	04-Nov-13	11042013-002.SSF	155699.4189	11958
722231.296	4294391.879	8508	04-Nov-13	11042013-002.SSF	155700.446	11959
722231.248	4294391.115	8183	04-Nov-13	11042013-002.SSF	155701.4109	11960
722231.078	4294389.732	8525	04-Nov-13	11042013-002.SSF	155702.5081	11961
722230.943	4294388.735	8298	04-Nov-13	11042013-002.SSF	155703.3601	11962

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722231.082	4294386.81	7969	04-Nov-13	11042013-002.SSF	155705.3689	11964
722231.071	4294385.697	8292	04-Nov-13	11042013-002.SSF	155706.511	11965
722231.077	4294384.977	8279	04-Nov-13	11042013-002.SSF	155707.3779	11966
722231.053	4294384.312	8970	04-Nov-13	11042013-002.SSF	155708.4241	11967
722231.023	4294383.686	8248	04-Nov-13	11042013-002.SSF	155709.3911	11968
722231.142	4294382.482	8051	04-Nov-13	11042013-002.SSF	155710.4561	11969
722231.267	4294381.58	7986	04-Nov-13	11042013-002.SSF	155711.3359	11970
722231.498	4294381.404	8422	04-Nov-13	11042013-002.SSF	155712.4131	11971
722231.893	4294381.755	8300	04-Nov-13	11042013-002.SSF	155713.3721	11972
722232.297	4294382.491	7886	04-Nov-13	11042013-002.SSF	155714.3831	11973
722232.423	4294383.305	7601	04-Nov-13	11042013-002.SSF	155715.3999	11974
722232.464	4294384.051	7793	04-Nov-13	11042013-002.SSF	155716.429	11975
722232.478	4294384.948	7331	04-Nov-13	11042013-002.SSF	155717.4431	11976
722232.527	4294386.062	7611	04-Nov-13	11042013-002.SSF	155718.501	11977
722232.662	4294386.706	8024	04-Nov-13	11042013-002.SSF	155719.3579	11978
722232.846	4294387.433	8143	04-Nov-13	11042013-002.SSF	155720.4951	11979
722232.946	4294388.293	8000	04-Nov-13	11042013-002.SSF	155721.4519	11980
722233.036	4294389.234	8490	04-Nov-13	11042013-002.SSF	155722.543	11981
722233.069	4294389.966	7933	04-Nov-13	11042013-002.SSF	155723.4629	11982
722233.197	4294390.625	8595	04-Nov-13	11042013-002.SSF	155724.5581	11983
722233.293	4294391.194	8224	04-Nov-13	11042013-002.SSF	155725.3979	11984
722233.417	4294392.164	7956	04-Nov-13	11042013-002.SSF	155726.4861	11985
722233.582	4294393.021	7663	04-Nov-13	11042013-002.SSF	155727.354	11986
722233.824	4294394.129	7325	04-Nov-13	11042013-002.SSF	155728.4661	11987
722233.927	4294394.851	7743	04-Nov-13	11042013-002.SSF	155729.4089	11988
722233.672	4294395.58	7768	04-Nov-13	11042013-002.SSF	155730.479	11989
722233.384	4294396.16	7721	04-Nov-13	11042013-002.SSF	155731.4431	11990
722233.12	4294396.531	8296	04-Nov-13	11042013-002.SSF	155732.5391	11991
722232.985	4294396.534	8049	04-Nov-13	11042013-002.SSF	155733.394	11992
722232.783	4294396.864	7842	04-Nov-13	11042013-002.SSF	155734.553	11993
722232.759	4294397.618	8259	04-Nov-13	11042013-002.SSF	155735.3921	11994
722232.969	4294398.75	7870	04-Nov-13	11042013-002.SSF	155736.4819	11995
722233.125	4294399.552	7959	04-Nov-13	11042013-002.SSF	155737.3689	11996
722233.22	4294400.009	7980	04-Nov-13	11042013-002.SSF	155738.46	11997
722233.267	4294400.236	7758	04-Nov-13	11042013-002.SSF	155739.4141	11998
722233.413	4294400.406	8489	04-Nov-13	11042013-002.SSF	155740.4939	11999
722233.526	4294400.318	8945	04-Nov-13	11042013-002.SSF	155741.4041	12000
722233.739	4294400.169	9231	04-Nov-13	11042013-002.SSF	155742.5161	12001
722233.895	4294400.257	9370	04-Nov-13	11042013-002.SSF	155743.468	12002
722234.192	4294400.067	8593	04-Nov-13	11042013-002.SSF	155744.4839	12003
722234.56	4294399.797	8298	04-Nov-13	11042013-002.SSF	155745.364	12004
722234.793	4294399.242	8095	04-Nov-13	11042013-002.SSF	155746.449	12005
722234.695	4294398.63	8273	04-Nov-13	11042013-002.SSF	155747.4241	12006
722234.443	4294398.314	8051	04-Nov-13	11042013-002.SSF	155748.426	12007
722234.301	4294397.963	7874	04-Nov-13	11042013-002.SSF	155749.333	12008
722234.436	4294397.538	8306	04-Nov-13	11042013-002.SSF	155750.429	12009

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722235.35	4294397.439	7982	04-Nov-13	11042013-002.SSF	155752.4761	12011
722235.395	4294397.463	8742	04-Nov-13	11042013-002.SSF	155753.375	12012
722235.413	4294397.439	9455	04-Nov-13	11042013-002.SSF	155754.4431	12013
722235.487	4294397.463	9346	04-Nov-13	11042013-002.SSF	155755.323	12014
722235.516	4294397.414	8902	04-Nov-13	11042013-002.SSF	155756.4241	12015
722235.589	4294397.392	9162	04-Nov-13	11042013-002.SSF	155757.3889	12016
722235.589	4294397.309	8746	04-Nov-13	11042013-002.SSF	155758.488	12017
722235.384	4294397.177	9127	04-Nov-13	11042013-002.SSF	155759.386	12018
722235.116	4294397.031	8584	04-Nov-13	11042013-002.SSF	155760.5339	12019
722234.989	4294396.942	9073	04-Nov-13	11042013-002.SSF	155761.3589	12020
722234.881	4294396.872	9063	04-Nov-13	11042013-002.SSF	155762.4529	12021
722234.847	4294396.881	8976	04-Nov-13	11042013-002.SSF	155763.3821	12022
722234.827	4294396.999	9549	04-Nov-13	11042013-002.SSF	155764.498	12023
722234.805	4294397.058	9361	04-Nov-13	11042013-002.SSF	155765.3821	12024
722234.828	4294397.018	8850	04-Nov-13	11042013-002.SSF	155766.4751	12025
722234.863	4294396.963	8691	04-Nov-13	11042013-002.SSF	155767.4031	12026
722234.772	4294397.016	8811	04-Nov-13	11042013-002.SSF	155768.4929	12027
722234.674	4294397.071	8256	04-Nov-13	11042013-002.SSF	155769.45	12028
722234.806	4294396.931	8319	04-Nov-13	11042013-002.SSF	155770.4951	12029
722234.87	4294396.83	8467	04-Nov-13	11042013-002.SSF	155771.354	12030
722234.657	4294396.674	7822	04-Nov-13	11042013-002.SSF	155772.4231	12031
722234.689	4294396.416	7817	04-Nov-13	11042013-002.SSF	155773.3379	12032
722235.011	4294396.283	8281	04-Nov-13	11042013-002.SSF	155774.4951	12033
722235.145	4294396.396	8220	04-Nov-13	11042013-002.SSF	155775.3601	12034
722235.203	4294396.62	8344	04-Nov-13	11042013-002.SSF	155776.541	12035
722235.078	4294396.626	8563	04-Nov-13	11042013-002.SSF	155777.4309	12036
722234.799	4294396.549	8477	04-Nov-13	11042013-002.SSF	155778.4819	12037
722234.624	4294396.434	8031	04-Nov-13	11042013-002.SSF	155779.438	12038
722234.342	4294395.901	8515	04-Nov-13	11042013-002.SSF	155780.489	12039
722234.177	4294395.124	8479	04-Nov-13	11042013-002.SSF	155781.4509	12040
722234.278	4294394.395	8310	04-Nov-13	11042013-002.SSF	155782.4761	12041
722234.403	4294393.68	8754	04-Nov-13	11042013-002.SSF	155783.447	12042
722234.432	4294392.915	8929	04-Nov-13	11042013-002.SSF	155784.4851	12043
722234.421	4294392.442	8675	04-Nov-13	11042013-002.SSF	155785.3799	12044
722234.567	4294392.127	8824	04-Nov-13	11042013-002.SSF	155786.426	12045
722234.757	4294391.987	9261	04-Nov-13	11042013-002.SSF	155787.3911	12046
722234.908	4294391.793	8712	04-Nov-13	11042013-002.SSF	155788.469	12047
722234.905	4294391.471	8568	04-Nov-13	11042013-002.SSF	155789.364	12048
722234.62	4294391.024	8592	04-Nov-13	11042013-002.SSF	155790.498	12049
722234.506	4294390.876	9003	04-Nov-13	11042013-002.SSF	155791.4031	12050
722234.784	4294391.192	8094	04-Nov-13	11042013-002.SSF	155792.4661	12051
722235.008	4294391.391	8175	04-Nov-13	11042013-002.SSF	155793.4099	12052
722235.221	4294391.496	8971	04-Nov-13	11042013-002.SSF	155794.5039	12053
722235.308	4294391.482	8428	04-Nov-13	11042013-002.SSF	155795.3091	12054
722235.411	4294391.482	8258	04-Nov-13	11042013-002.SSF	155796.373	12055
722235.357	4294391.359	7516	04-Nov-13	11042013-002.SSF	155798.4641	12057

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722234.791	4294389.261	8525	04-Nov-13	11042013-002.SSF	155801.3391	12060
722234.504	4294388.269	8260	04-Nov-13	11042013-002.SSF	155802.4431	12061
722234.354	4294387.462	8209	04-Nov-13	11042013-002.SSF	155803.3511	12062
722234.264	4294386.591	7842	04-Nov-13	11042013-002.SSF	155804.45	12063
722234.131	4294385.83	8274	04-Nov-13	11042013-002.SSF	155805.4619	12064
722234.127	4294385.005	8404	04-Nov-13	11042013-002.SSF	155806.4929	12065
722234.126	4294384.131	8304	04-Nov-13	11042013-002.SSF	155807.4099	12066
722234.109	4294383.288	8024	04-Nov-13	11042013-002.SSF	155808.4851	12067
722234.453	4294383.164	8608	04-Nov-13	11042013-002.SSF	155809.467	12068
722235.096	4294383.374	8607	04-Nov-13	11042013-002.SSF	155810.4121	12069
722235.641	4294383.792	8539	04-Nov-13	11042013-002.SSF	155811.303	12070
722235.634	4294384.903	7788	04-Nov-13	11042013-002.SSF	155812.4719	12071
722235.558	4294385.794	7583	04-Nov-13	11042013-002.SSF	155813.3569	12072
722235.566	4294386.593	7805	04-Nov-13	11042013-002.SSF	155814.3621	12073
722235.429	4294387.257	7953	04-Nov-13	11042013-002.SSF	155815.344	12074
722235.519	4294388.07	8148	04-Nov-13	11042013-002.SSF	155816.4761	12075
722235.809	4294388.735	7831	04-Nov-13	11042013-002.SSF	155817.343	12076
722236.147	4294389.773	8102	04-Nov-13	11042013-002.SSF	155818.469	12077
722236.288	4294390.431	8030	04-Nov-13	11042013-002.SSF	155819.364	12078
722236.245	4294390.921	7712	04-Nov-13	11042013-002.SSF	155820.3999	12079
722236.073	4294391.229	8103	04-Nov-13	11042013-002.SSF	155821.386	12080
722235.873	4294391.818	7745	04-Nov-13	11042013-002.SSF	155822.4519	12081
722235.861	4294392.365	7949	04-Nov-13	11042013-002.SSF	155823.405	12082
722236.128	4294392.512	8079	04-Nov-13	11042013-002.SSF	155824.4661	12083
722236.273	4294392.915	7477	04-Nov-13	11042013-002.SSF	155825.321	12084
722236.465	4294393.744	7760	04-Nov-13	11042013-002.SSF	155826.427	12085
722236.74	4294394.43	7958	04-Nov-13	11042013-002.SSF	155827.3091	12086
722236.937	4294395.119	7941	04-Nov-13	11042013-002.SSF	155828.387	12087
722237.256	4294396.315	8272	04-Nov-13	11042013-002.SSF	155830.429	12089
722237.242	4294397.115	7751	04-Nov-13	11042013-002.SSF	155831.365	12090
722237.297	4294398.134	7577	04-Nov-13	11042013-002.SSF	155832.4319	12091
722237.305	4294398.79	7419	04-Nov-13	11042013-002.SSF	155833.4241	12092
722237.238	4294399.27	7518	04-Nov-13	11042013-002.SSF	155834.4509	12093
722237.211	4294399.604	7401	04-Nov-13	11042013-002.SSF	155835.448	12094
722237.244	4294399.655	7253	04-Nov-13	11042013-002.SSF	155836.446	12095
722237.262	4294399.643	7140	04-Nov-13	11042013-002.SSF	155837.3469	12096
722236.95	4294399.528	7511	04-Nov-13	11042013-002.SSF	155838.5381	12097
722236.612	4294399.413	7540	04-Nov-13	11042013-002.SSF	155839.457	12098
722236.525	4294399.008	7443	04-Nov-13	11042013-002.SSF	155840.5271	12099
722236.696	4294398.462	7412	04-Nov-13	11042013-002.SSF	155841.3999	12100
722236.725	4294398.071	7312	04-Nov-13	11042013-002.SSF	155842.4861	12101
722236.685	4294398.067	7488	04-Nov-13	11042013-002.SSF	155843.439	12102
722236.706	4294398.231	8156	04-Nov-13	11042013-002.SSF	155844.489	12103
722236.704	4294398.39	7917	04-Nov-13	11042013-002.SSF	155845.3301	12104
722236.753	4294398.609	7407	04-Nov-13	11042013-002.SSF	155846.532	12105

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722236.777	4294398.752	7834	04-Nov-13	11042013-002.SSF	155847.439	12106
722236.775	4294398.858	7759	04-Nov-13	11042013-002.SSF	155848.481	12107
722236.778	4294398.899	7979	04-Nov-13	11042013-002.SSF	155849.373	12108
722236.681	4294398.854	7908	04-Nov-13	11042013-002.SSF	155850.4961	12109
722236.485	4294398.699	8461	04-Nov-13	11042013-002.SSF	155851.386	12110
722236.079	4294397.721	8302	04-Nov-13	11042013-002.SSF	155853.3701	12111
722235.961	4294396.816	8127	04-Nov-13	11042013-002.SSF	155854.447	12112
722235.762	4294396.141	8726	04-Nov-13	11042013-002.SSF	155855.373	12113
722235.563	4294395.376	8906	04-Nov-13	11042013-002.SSF	155856.4529	12114
722235.312	4294394.795	8414	04-Nov-13	11042013-002.SSF	155857.3831	12115
722234.84	4294394.17	8393	04-Nov-13	11042013-002.SSF	155858.459	12116
722234.284	4294393.567	7946	04-Nov-13	11042013-002.SSF	155859.3391	12117
722233.653	4294392.935	8302	04-Nov-13	11042013-002.SSF	155860.3931	12118
722233.185	4294392.322	8060	04-Nov-13	11042013-002.SSF	155861.3569	12119
722232.733	4294391.467	8028	04-Nov-13	11042013-002.SSF	155862.446	12120
722232.445	4294390.853	7883	04-Nov-13	11042013-002.SSF	155863.3401	12121
722232.286	4294390.11	8207	04-Nov-13	11042013-002.SSF	155864.4199	12122
722232.118	4294389.38	8899	04-Nov-13	11042013-002.SSF	155865.3059	12123
722231.642	4294388.295	8448	04-Nov-13	11042013-002.SSF	155866.4221	12124
722231.308	4294387.547	8007	04-Nov-13	11042013-002.SSF	155867.302	12125
722230.955	4294386.592	8464	04-Nov-13	11042013-002.SSF	155868.366	12126
722230.622	4294385.982	8068	04-Nov-13	11042013-002.SSF	155869.3589	12127
722230.18	4294385.849	8978	04-Nov-13	11042013-002.SSF	155870.4619	12128
722229.815	4294385.904	9070	04-Nov-13	11042013-002.SSF	155871.3391	12129
722229.527	4294385.95	8342	04-Nov-13	11042013-002.SSF	155872.4351	12130
722229.352	4294385.898	8210	04-Nov-13	11042013-002.SSF	155873.355	12131
722229.289	4294385.783	7963	04-Nov-13	11042013-002.SSF	155874.4231	12132
722229.249	4294385.639	8739	04-Nov-13	11042013-002.SSF	155875.3999	12133
722229.255	4294385.57	8583	04-Nov-13	11042013-002.SSF	155876.46	12134
722229.258	4294385.507	8908	04-Nov-13	11042013-002.SSF	155877.3469	12135
722229.287	4294385.509	8595	04-Nov-13	11042013-002.SSF	155878.437	12136
722229.324	4294385.472	7662	04-Nov-13	11042013-002.SSF	155879.345	12137
722229.348	4294385.431	8180	04-Nov-13	11042013-002.SSF	155880.3921	12138
722229.36	4294385.452	8396	04-Nov-13	11042013-002.SSF	155881.281	12139
722229.361	4294385.488	8720	04-Nov-13	11042013-002.SSF	155882.4041	12140
722229.408	4294385.508	8437	04-Nov-13	11042013-002.SSF	155883.3311	12141
722229.463	4294385.496	8698	04-Nov-13	11042013-002.SSF	155884.4409	12142
722229.462	4294385.505	9505	04-Nov-13	11042013-002.SSF	155885.396	12143
722229.456	4294385.567	8774	04-Nov-13	11042013-002.SSF	155886.395	12144
722229.448	4294385.571	8303	04-Nov-13	11042013-002.SSF	155887.386	12145
722229.464	4294385.47	8375	04-Nov-13	11042013-002.SSF	155888.3931	12146
722229.444	4294385.361	8213	04-Nov-13	11042013-002.SSF	155889.3911	12147
722229.32	4294385.267	8955	04-Nov-13	11042013-002.SSF	155890.439	12148
722229.12	4294385.211	8809	04-Nov-13	11042013-002.SSF	155891.4099	12149
722228.982	4294385.272	8900	04-Nov-13	11042013-002.SSF	155892.4719	12150
722228.956	4294385.418	8156	04-Nov-13	11042013-002.SSF	155893.4241	12151
722228.948	4294385.508	8765	04-Nov-13	11042013-002.SSF	155894.5029	12152

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722228.948	4294385.543	8628	04-Nov-13	11042013-002.SSF	155895.384	12153
722228.931	4294385.598	8678	04-Nov-13	11042013-002.SSF	155896.418	12154
722228.932	4294385.652	8714	04-Nov-13	11042013-002.SSF	155897.3169	12155
722228.949	4294385.727	8389	04-Nov-13	11042013-002.SSF	155898.3721	12156
722228.949	4294385.778	7921	04-Nov-13	11042013-002.SSF	155899.2729	12157
722228.941	4294385.804	8580	04-Nov-13	11042013-002.SSF	155900.395	12158
722228.926	4294385.833	8201	04-Nov-13	11042013-002.SSF	155901.3579	12159
722228.902	4294385.875	7733	04-Nov-13	11042013-002.SSF	155902.355	12160
722228.828	4294385.893	8122	04-Nov-13	11042013-002.SSF	155903.333	12161
722228.661	4294385.922	8499	04-Nov-13	11042013-002.SSF	155904.406	12162
722228.585	4294385.95	8343	04-Nov-13	11042013-002.SSF	155905.342	12163
722228.559	4294386.023	8525	04-Nov-13	11042013-002.SSF	155906.448	12164
722228.565	4294386.077	8478	04-Nov-13	11042013-002.SSF	155907.3589	12165
722228.573	4294386.101	8316	04-Nov-13	11042013-002.SSF	155908.3589	12166
722228.588	4294386.098	8728	04-Nov-13	11042013-002.SSF	155909.3401	12167
722228.617	4294386.097	8869	04-Nov-13	11042013-002.SSF	155910.427	12168
722228.664	4294386.093	8611	04-Nov-13	11042013-002.SSF	155911.3149	12169
722228.698	4294386.094	9059	04-Nov-13	11042013-002.SSF	155912.3879	12170
722228.735	4294386.075	8875	04-Nov-13	11042013-002.SSF	155913.282	12171
722228.851	4294386.018	8502	04-Nov-13	11042013-002.SSF	155914.344	12172
722229.129	4294385.871	8727	04-Nov-13	11042013-002.SSF	155915.395	12173
722229.283	4294385.814	8861	04-Nov-13	11042013-002.SSF	155916.4729	12174
722229.318	4294385.839	8674	04-Nov-13	11042013-002.SSF	155917.4141	12175
722229.281	4294385.897	8952	04-Nov-13	11042013-002.SSF	155918.387	12176
722229.168	4294385.987	8688	04-Nov-13	11042013-002.SSF	155919.3669	12177
722229.069	4294386.075	8727	04-Nov-13	11042013-002.SSF	155920.3569	12178
722228.957	4294386.176	8756	04-Nov-13	11042013-002.SSF	155921.302	12179
722228.853	4294386.387	8480	04-Nov-13	11042013-002.SSF	155922.354	12180
722228.887	4294386.625	9270	04-Nov-13	11042013-002.SSF	155923.323	12181
722229.03	4294386.646	8829	04-Nov-13	11042013-002.SSF	155924.366	12182
722229.117	4294386.6	8851	04-Nov-13	11042013-002.SSF	155925.323	12183
722229.111	4294386.574	8894	04-Nov-13	11042013-002.SSF	155926.4189	12184
722229.041	4294386.509	8992	04-Nov-13	11042013-002.SSF	155927.3979	12185
722229.016	4294386.422	9108	04-Nov-13	11042013-002.SSF	155928.4009	12186
722229.021	4294386.413	9128	04-Nov-13	11042013-002.SSF	155929.394	12187
722228.968	4294386.307	8569	04-Nov-13	11042013-002.SSF	155930.448	12188
722228.871	4294386.281	9028	04-Nov-13	11042013-002.SSF	155931.3149	12189
722228.725	4294386.386	8978	04-Nov-13	11042013-002.SSF	155932.3899	12190
722228.624	4294386.489	8245	04-Nov-13	11042013-002.SSF	155933.3811	12191
722228.535	4294386.606	8665	04-Nov-13	11042013-002.SSF	155934.4561	12192
722228.479	4294386.713	9119	04-Nov-13	11042013-002.SSF	155935.281	12193
722228.424	4294386.871	8602	04-Nov-13	11042013-002.SSF	155936.356	12194
722228.37	4294387.042	7996	04-Nov-13	11042013-002.SSF	155937.332	12195
722228.34	4294387.181	8450	04-Nov-13	11042013-002.SSF	155938.387	12196
722228.312	4294387.251	8660	04-Nov-13	11042013-002.SSF	155939.3411	12197
722228.289	4294387.32	9131	04-Nov-13	11042013-002.SSF	155940.417	12198
722228.238	4294387.378	9096	04-Nov-13	11042013-002.SSF	155941.375	12199

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722228.194	4294387.429	9031	04-Nov-13	11042013-002.SSF	155942.4351	12200
722228.191	4294387.486	8620	04-Nov-13	11042013-002.SSF	155943.3999	12201
722228.215	4294387.49	8381	04-Nov-13	11042013-002.SSF	155944.4529	12202
722228.218	4294387.418	8224	04-Nov-13	11042013-002.SSF	155945.3911	12203
722228.192	4294387.321	7979	04-Nov-13	11042013-002.SSF	155946.376	12204
722228.154	4294387.279	8673	04-Nov-13	11042013-002.SSF	155947.321	12205
722228.106	4294387.244	8583	04-Nov-13	11042013-002.SSF	155948.3821	12206
722228.073	4294387.246	8338	04-Nov-13	11042013-002.SSF	155949.3799	12207
722228.046	4294387.261	8530	04-Nov-13	11042013-002.SSF	155950.3979	12208
722228.016	4294387.289	8045	04-Nov-13	11042013-002.SSF	155951.354	12209
722227.998	4294387.325	8373	04-Nov-13	11042013-002.SSF	155952.3989	12210
722227.987	4294387.359	7965	04-Nov-13	11042013-002.SSF	155953.269	12211
722227.971	4294387.398	7810	04-Nov-13	11042013-002.SSF	155954.325	12212
722227.989	4294387.449	7895	04-Nov-13	11042013-002.SSF	155955.324	12213
722228.011	4294387.482	8169	04-Nov-13	11042013-002.SSF	155956.4231	12214
722228.023	4294387.486	8187	04-Nov-13	11042013-002.SSF	155957.283	12215
722228.014	4294387.496	8678	04-Nov-13	11042013-002.SSF	155958.3611	12216
722228.022	4294387.494	9014	04-Nov-13	11042013-002.SSF	155959.3279	12217
722228.037	4294387.483	8970	04-Nov-13	11042013-002.SSF	155960.394	12218
722228.03	4294387.503	8975	04-Nov-13	11042013-002.SSF	155961.3459	12219
722228.052	4294387.514	9009	04-Nov-13	11042013-002.SSF	155962.4419	12220
722228.085	4294387.529	8952	04-Nov-13	11042013-002.SSF	155963.2949	12221
722228.115	4294387.551	9176	04-Nov-13	11042013-002.SSF	155964.446	12222
722228.147	4294387.581	8904	04-Nov-13	11042013-002.SSF	155965.395	12223
722228.226	4294387.597	9073	04-Nov-13	11042013-002.SSF	155966.3931	12224
722228.283	4294387.563	8493	04-Nov-13	11042013-002.SSF	155967.3879	12225
722228.182	4294387.619	8790	04-Nov-13	11042013-002.SSF	155968.4561	12226
722228.096	4294387.621	8589	04-Nov-13	11042013-002.SSF	155969.3149	12227
722228.102	4294387.534	8934	04-Nov-13	11042013-002.SSF	155970.3999	12228
722228.116	4294387.489	8340	04-Nov-13	11042013-002.SSF	155971.4241	12229
722228.142	4294387.481	8756	04-Nov-13	11042013-002.SSF	155972.375	12230
722228.138	4294387.506	8623	04-Nov-13	11042013-002.SSF	155973.3669	12231
722228.122	4294387.573	8323	04-Nov-13	11042013-002.SSF	155974.3701	12232
722228.122	4294387.683	8034	04-Nov-13	11042013-002.SSF	155975.3879	12233
722228.265	4294387.793	8269	04-Nov-13	11042013-002.SSF	155976.4089	12234
722228.461	4294387.831	8318	04-Nov-13	11042013-002.SSF	155977.324	12235
722228.532	4294387.73	8197	04-Nov-13	11042013-002.SSF	155978.408	12236
722228.575	4294387.698	8390	04-Nov-13	11042013-002.SSF	155979.406	12237
722228.486	4294387.7	8417	04-Nov-13	11042013-002.SSF	155980.3931	12238
722228.467	4294387.655	8852	04-Nov-13	11042013-002.SSF	155981.417	12239
722228.466	4294387.626	8962	04-Nov-13	11042013-002.SSF	155982.3999	12240
722228.391	4294387.604	8588	04-Nov-13	11042013-002.SSF	155983.3169	12241
722228.258	4294387.542	8453	04-Nov-13	11042013-002.SSF	155984.4141	12242
722228.175	4294387.443	8295	04-Nov-13	11042013-002.SSF	155985.3921	12243
722228.147	4294387.32	8513	04-Nov-13	11042013-002.SSF	155986.4409	12244
722228.055	4294387.242	8381	04-Nov-13	11042013-002.SSF	155987.3511	12245
722227.997	4294387.164	8667	04-Nov-13	11042013-002.SSF	155988.457	12246

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722228.253	4294387.025	8917	04-Nov-13	11042013-002.SSF	155989.375	12247
722228.611	4294386.857	9246	04-Nov-13	11042013-002.SSF	155990.4109	12248
722228.673	4294386.729	9184	04-Nov-13	11042013-002.SSF	155991.25	12249
722228.803	4294386.697	8918	04-Nov-13	11042013-002.SSF	155992.3879	12250
722228.908	4294386.77	8894	04-Nov-13	11042013-002.SSF	155993.25	12251
722229.077	4294386.914	8670	04-Nov-13	11042013-002.SSF	155994.377	12252
722229.122	4294387.001	8852	04-Nov-13	11042013-002.SSF	155995.395	12253
722229.172	4294387.06	8534	04-Nov-13	11042013-002.SSF	155996.4541	12254
722229.365	4294387.18	8798	04-Nov-13	11042013-002.SSF	155997.365	12255
722229.634	4294387.528	8639	04-Nov-13	11042013-002.SSF	155998.467	12256
722229.79	4294387.901	8909	04-Nov-13	11042013-002.SSF	155999.3391	12257
722230.028	4294388.22	8386	04-Nov-13	11042013-002.SSF	156000.4221	12258
722230.069	4294388.579	8910	04-Nov-13	11042013-002.SSF	156001.3669	12259
722229.867	4294388.992	8866	04-Nov-13	11042013-002.SSF	156002.426	12260
722229.753	4294389.095	8962	04-Nov-13	11042013-002.SSF	156003.3269	12261
722229.708	4294388.981	8746	04-Nov-13	11042013-002.SSF	156004.448	12262
722229.706	4294388.82	8617	04-Nov-13	11042013-002.SSF	156005.2839	12263
722229.723	4294388.608	8027	04-Nov-13	11042013-002.SSF	156006.4089	12264
722229.724	4294388.493	8145	04-Nov-13	11042013-002.SSF	156007.2839	12265
722229.718	4294388.368	8226	04-Nov-13	11042013-002.SSF	156008.353	12266
722229.722	4294388.264	8032	04-Nov-13	11042013-002.SSF	156009.3049	12267
722229.737	4294388.077	7968	04-Nov-13	11042013-002.SSF	156010.489	12268
722229.788	4294387.938	8037	04-Nov-13	11042013-002.SSF	156011.3149	12269
722229.943	4294387.772	8151	04-Nov-13	11042013-002.SSF	156012.447	12270
722230.033	4294387.663	8035	04-Nov-13	11042013-002.SSF	156013.304	12271
722230.092	4294387.538	7879	04-Nov-13	11042013-002.SSF	156014.3879	12272
722230.105	4294387.505	8100	04-Nov-13	11042013-002.SSF	156015.311	12273
722230.094	4294387.487	7848	04-Nov-13	11042013-002.SSF	156016.405	12274
722230.08	4294387.441	8292	04-Nov-13	11042013-002.SSF	156017.2529	12275
722230.039	4294387.395	8594	04-Nov-13	11042013-002.SSF	156018.448	12276
722230.029	4294387.393	8231	04-Nov-13	11042013-002.SSF	156019.2971	12277
722230.041	4294387.4	8050	04-Nov-13	11042013-002.SSF	156020.3921	12278
722230.047	4294387.402	8113	04-Nov-13	11042013-002.SSF	156021.3589	12279
722230.085	4294387.375	8066	04-Nov-13	11042013-002.SSF	156022.3979	12280
722230.13	4294387.375	8310	04-Nov-13	11042013-002.SSF	156023.3779	12281
722230.178	4294387.405	8086	04-Nov-13	11042013-002.SSF	156024.3879	12282
722230.196	4294387.426	8058	04-Nov-13	11042013-002.SSF	156025.2839	12283
722230.16	4294387.525	8170	04-Nov-13	11042013-002.SSF	156026.3379	12284
722230.121	4294387.616	8278	04-Nov-13	11042013-002.SSF	156027.301	12285
722230.089	4294387.666	8391	04-Nov-13	11042013-002.SSF	156028.356	12286
722230.065	4294387.757	8455	04-Nov-13	11042013-002.SSF	156029.2529	12287
722230.001	4294388.056	8341	04-Nov-13	11042013-002.SSF	156030.2971	12288
722229.95	4294388.29	8441	04-Nov-13	11042013-002.SSF	156031.2661	12289
722229.896	4294388.496	8618	04-Nov-13	11042013-002.SSF	156032.353	12290
722229.875	4294388.602	8864	04-Nov-13	11042013-002.SSF	156033.2251	12291
722229.929	4294388.475	8762	04-Nov-13	11042013-002.SSF	156034.2871	12292
722230.02	4294388.319	9219	04-Nov-13	11042013-002.SSF	156035.262	12293

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722230.045	4294388.281	8973	04-Nov-13	11042013-002.SSF	156036.3069	12294
722230.057	4294388.208	8272	04-Nov-13	11042013-002.SSF	156037.2419	12295
722230.047	4294388.082	8230	04-Nov-13	11042013-002.SSF	156038.301	12296
722230.101	4294387.842	8717	04-Nov-13	11042013-002.SSF	156039.251	12297
722230.165	4294387.618	8106	04-Nov-13	11042013-002.SSF	156040.387	12298
722230.267	4294387.391	8437	04-Nov-13	11042013-002.SSF	156041.3391	12299
722230.345	4294387.172	7911	04-Nov-13	11042013-002.SSF	156042.3501	12300
722230.38	4294387.061	7375	04-Nov-13	11042013-002.SSF	156043.3301	12301
722230.4	4294386.947	7575	04-Nov-13	11042013-002.SSF	156044.386	12302
722230.425	4294386.818	7824	04-Nov-13	11042013-002.SSF	156045.293	12303
722230.444	4294386.723	7671	04-Nov-13	11042013-002.SSF	156046.364	12304
722230.408	4294386.779	7217	04-Nov-13	11042013-002.SSF	156047.2639	12305
722230.373	4294386.82	7614	04-Nov-13	11042013-002.SSF	156048.3391	12306
722230.356	4294386.737	7883	04-Nov-13	11042013-002.SSF	156049.3411	12307
722230.356	4294386.649	7861	04-Nov-13	11042013-002.SSF	156050.2991	12308
722230.3	4294386.675	7797	04-Nov-13	11042013-002.SSF	156051.2981	12309
722230.177	4294386.88	8173	04-Nov-13	11042013-002.SSF	156052.291	12310
722230.107	4294387.251	8310	04-Nov-13	11042013-002.SSF	156053.2881	12311
722230.07	4294387.652	8027	04-Nov-13	11042013-002.SSF	156054.385	12312
722230.046	4294387.918	8152	04-Nov-13	11042013-002.SSF	156055.2859	12313
722229.994	4294388.069	8358	04-Nov-13	11042013-002.SSF	156056.3811	12314
722229.873	4294388.162	7911	04-Nov-13	11042013-002.SSF	156057.3279	12315
722229.766	4294388.305	8410	04-Nov-13	11042013-002.SSF	156058.373	12316
722229.743	4294388.407	8443	04-Nov-13	11042013-002.SSF	156059.3279	12317
722229.694	4294388.483	8079	04-Nov-13	11042013-002.SSF	156060.3831	12318
722229.625	4294388.545	8587	04-Nov-13	11042013-002.SSF	156061.324	12319
722229.543	4294388.614	8257	04-Nov-13	11042013-002.SSF	156062.396	12320
722229.484	4294388.667	8192	04-Nov-13	11042013-002.SSF	156063.3081	12321
722229.515	4294388.738	8598	04-Nov-13	11042013-002.SSF	156064.3831	12322
722229.486	4294388.782	8661	04-Nov-13	11042013-002.SSF	156065.2859	12323
722229.386	4294388.821	8532	04-Nov-13	11042013-002.SSF	156066.3259	12324
722229.274	4294388.893	7899	04-Nov-13	11042013-002.SSF	156067.2849	12325
722229.216	4294388.983	8091	04-Nov-13	11042013-002.SSF	156068.3201	12326
722229.08	4294388.922	8331	04-Nov-13	11042013-002.SSF	156069.259	12327
722228.905	4294388.793	8834	04-Nov-13	11042013-002.SSF	156070.3931	12328
722228.841	4294388.801	8539	04-Nov-13	11042013-002.SSF	156071.3149	12329
722228.865	4294388.854	7938	04-Nov-13	11042013-002.SSF	156072.3711	12330
722228.919	4294388.889	8230	04-Nov-13	11042013-002.SSF	156073.335	12331
722228.998	4294388.906	7982	04-Nov-13	11042013-002.SSF	156074.4309	12332
722229.038	4294388.911	8412	04-Nov-13	11042013-002.SSF	156075.2849	12333
722229.048	4294388.853	8084	04-Nov-13	11042013-002.SSF	156076.406	12334
722229.058	4294388.839	7990	04-Nov-13	11042013-002.SSF	156077.304	12335
722229.095	4294388.957	7884	04-Nov-13	11042013-002.SSF	156078.3899	12336
722229.102	4294389.069	8110	04-Nov-13	11042013-002.SSF	156079.3191	12337
722229.142	4294389.065	8413	04-Nov-13	11042013-002.SSF	156081.4031	12338
722229.244	4294389.027	8430	04-Nov-13	11042013-002.SSF	156082.467	12339
722229.305	4294389	9009	04-Nov-13	11042013-002.SSF	156083.3191	12340

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722229.378	4294388.785	8782	04-Nov-13	11042013-002.SSF	156086.3091	12341
722229.441	4294388.766	8412	04-Nov-13	11042013-002.SSF	156087.2949	12342
722229.469	4294389.055	8714	04-Nov-13	11042013-002.SSF	156088.2991	12343
722229.412	4294389.343	8292	04-Nov-13	11042013-002.SSF	156089.2419	12344
722229.293	4294389.484	8279	04-Nov-13	11042013-002.SSF	156090.2639	12345
722229.657	4294389.357	8159	04-Nov-13	11042013-002.SSF	156091.2681	12346
722229.776	4294389.102	8032	04-Nov-13	11042013-002.SSF	156092.375	12347
722229.885	4294389.002	8350	04-Nov-13	11042013-002.SSF	156093.2219	12348
722229.98	4294388.912	8702	04-Nov-13	11042013-002.SSF	156094.3611	12349
722230.113	4294388.843	9050	04-Nov-13	11042013-002.SSF	156095.3379	12350
722230.332	4294388.768	8833	04-Nov-13	11042013-002.SSF	156096.4099	12351
722230.449	4294388.712	8561	04-Nov-13	11042013-002.SSF	156097.334	12352
722230.52	4294388.764	7935	04-Nov-13	11042013-002.SSF	156098.386	12353
722230.578	4294388.845	7883	04-Nov-13	11042013-002.SSF	156099.375	12354
722230.592	4294388.959	8919	04-Nov-13	11042013-002.SSF	156100.3711	12355
722230.56	4294389.083	8782	04-Nov-13	11042013-002.SSF	156101.3689	12356
722230.481	4294389.193	8900	04-Nov-13	11042013-002.SSF	156102.397	12357
722230.399	4294389.292	8801	04-Nov-13	11042013-002.SSF	156103.3101	12358
722230.301	4294389.324	8790	04-Nov-13	11042013-002.SSF	156104.3689	12359
722230.157	4294389.316	8567	04-Nov-13	11042013-002.SSF	156105.3059	12360
722230.078	4294389.365	8809	04-Nov-13	11042013-002.SSF	156106.3931	12361
722230.077	4294389.399	9012	04-Nov-13	11042013-002.SSF	156107.304	12362
722230.106	4294389.361	8804	04-Nov-13	11042013-002.SSF	156108.386	12363
722230.162	4294389.468	8102	04-Nov-13	11042013-002.SSF	156109.2681	12364
722230.149	4294389.373	8067	04-Nov-13	11042013-002.SSF	156110.396	12365
722230.087	4294389.346	7658	04-Nov-13	11042013-002.SSF	156111.3081	12366
722230.024	4294389.313	7825	04-Nov-13	11042013-002.SSF	156112.394	12367
722229.997	4294389.243	8354	04-Nov-13	11042013-002.SSF	156113.304	12368
722229.93	4294389.175	8306	04-Nov-13	11042013-002.SSF	156114.345	12369
722229.857	4294389.142	8572	04-Nov-13	11042013-002.SSF	156115.3069	12370
722229.799	4294389.109	8639	04-Nov-13	11042013-002.SSF	156116.3669	12371
722229.743	4294389.086	8512	04-Nov-13	11042013-002.SSF	156117.3069	12372
722229.724	4294389.063	9063	04-Nov-13	11042013-002.SSF	156118.375	12373
722229.724	4294389.045	9883	04-Nov-13	11042013-002.SSF	156119.322	12374
722229.7	4294389.031	9189	04-Nov-13	11042013-002.SSF	156120.3931	12375
722229.679	4294389.029	8678	04-Nov-13	11042013-002.SSF	156121.2991	12376
722229.711	4294389.082	8257	04-Nov-13	11042013-002.SSF	156122.374	12377
722229.766	4294389.18	8732	04-Nov-13	11042013-002.SSF	156123.333	12378
722229.762	4294389.223	9044	04-Nov-13	11042013-002.SSF	156124.3311	12379
722229.774	4294389.233	8200	04-Nov-13	11042013-002.SSF	156125.2461	12380
722229.746	4294389.217	8745	04-Nov-13	11042013-002.SSF	156126.2739	12381
722229.678	4294389.137	8811	04-Nov-13	11042013-002.SSF	156127.2251	12382
722229.516	4294388.866	8399	04-Nov-13	11042013-002.SSF	156128.3311	12383
722229.473	4294388.647	8482	04-Nov-13	11042013-002.SSF	156129.2949	12384
722229.466	4294388.466	8266	04-Nov-13	11042013-002.SSF	156130.2991	12385
722229.503	4294388.329	8002	04-Nov-13	11042013-002.SSF	156131.332	12386
722229.526	4294388.26	8198	04-Nov-13	11042013-002.SSF	156132.3401	12387

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722229.555	4294388.21	8204	04-Nov-13	11042013-002.SSF	156133.3101	12388
722229.574	4294388.252	8455	04-Nov-13	11042013-002.SSF	156134.3889	12389
722229.578	4294388.326	8655	04-Nov-13	11042013-002.SSF	156135.2991	12390
722229.597	4294388.351	8724	04-Nov-13	11042013-002.SSF	156136.3911	12391
722229.632	4294388.35	8934	04-Nov-13	11042013-002.SSF	156137.3721	12392
722229.681	4294388.322	8925	04-Nov-13	11042013-002.SSF	156138.3511	12393
722229.704	4294388.33	9243	04-Nov-13	11042013-002.SSF	156139.3789	12394
722229.646	4294388.419	9189	04-Nov-13	11042013-002.SSF	156140.292	12395
722229.453	4294388.633	8731	04-Nov-13	11042013-002.SSF	156141.2849	12396
722229.343	4294388.751	8594	04-Nov-13	11042013-002.SSF	156142.3521	12397
722229.28	4294388.834	8231	04-Nov-13	11042013-002.SSF	156143.3081	12398
722229.305	4294388.876	8597	04-Nov-13	11042013-002.SSF	156144.3	12399
722229.382	4294388.907	8083	04-Nov-13	11042013-002.SSF	156145.2539	12400
722229.423	4294388.929	8619	04-Nov-13	11042013-002.SSF	156146.342	12401
722229.524	4294388.811	7953	04-Nov-13	11042013-002.SSF	156147.2949	12402
722229.616	4294388.653	7968	04-Nov-13	11042013-002.SSF	156148.4199	12403
722229.63	4294388.581	7806	04-Nov-13	11042013-002.SSF	156149.2061	12404
722229.675	4294388.425	7727	04-Nov-13	11042013-002.SSF	156150.364	12405
722229.674	4294388.288	8441	04-Nov-13	11042013-002.SSF	156151.376	12406
722229.664	4294388.235	8603	04-Nov-13	11042013-002.SSF	156152.343	12407
722229.689	4294388.13	8724	04-Nov-13	11042013-002.SSF	156153.283	12408
722229.697	4294387.942	8972	04-Nov-13	11042013-002.SSF	156154.396	12409
722229.727	4294387.834	9059	04-Nov-13	11042013-002.SSF	156155.259	12410
722229.836	4294387.743	8306	04-Nov-13	11042013-002.SSF	156156.303	12411
722229.831	4294387.772	8489	04-Nov-13	11042013-002.SSF	156157.2661	12412
722229.823	4294387.84	8945	04-Nov-13	11042013-002.SSF	156158.335	12413
722229.842	4294387.88	8451	04-Nov-13	11042013-002.SSF	156159.27	12414
722229.887	4294387.942	8804	04-Nov-13	11042013-002.SSF	156160.395	12415
722229.928	4294387.979	8687	04-Nov-13	11042013-002.SSF	156161.344	12416
722229.958	4294388.026	8621	04-Nov-13	11042013-002.SSF	156162.407	12417
722229.98	4294388.075	8262	04-Nov-13	11042013-002.SSF	156163.2839	12418
722229.978	4294388.157	8577	04-Nov-13	11042013-002.SSF	156164.3401	12419
722229.984	4294388.207	8327	04-Nov-13	11042013-002.SSF	156165.281	12420
722230.017	4294388.245	8246	04-Nov-13	11042013-002.SSF	156166.3711	12421
722230.029	4294388.271	8216	04-Nov-13	11042013-002.SSF	156167.3469	12422
722230.019	4294388.308	7974	04-Nov-13	11042013-002.SSF	156168.342	12423
722230.012	4294388.362	8100	04-Nov-13	11042013-002.SSF	156169.3569	12424
722230.056	4294388.423	7623	04-Nov-13	11042013-002.SSF	156170.2991	12425
722230.088	4294388.416	7716	04-Nov-13	11042013-002.SSF	156171.2791	12426
722230.168	4294388.438	8187	04-Nov-13	11042013-002.SSF	156172.366	12427
722230.21	4294388.623	8063	04-Nov-13	11042013-002.SSF	156173.2419	12428
722230.234	4294388.787	7700	04-Nov-13	11042013-002.SSF	156174.2859	12429
722230.257	4294388.918	8396	04-Nov-13	11042013-002.SSF	156175.3049	12430
722230.373	4294388.998	8480	04-Nov-13	11042013-002.SSF	156176.3811	12431
722230.548	4294389.036	8332	04-Nov-13	11042013-002.SSF	156177.3379	12432
722230.725	4294389.085	8032	04-Nov-13	11042013-002.SSF	156178.406	12433
722230.854	4294389.126	7818	04-Nov-13	11042013-002.SSF	156179.29	12434

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722231.019	4294389.132	8425	04-Nov-13	11042013-002.SSF	156180.29	12435
722231.106	4294389.097	8459	04-Nov-13	11042013-002.SSF	156181.25	12436
722231.223	4294389.036	8350	04-Nov-13	11042013-002.SSF	156182.311	12437
722231.276	4294389.041	8289	04-Nov-13	11042013-002.SSF	156183.2219	12438
722231.311	4294389.062	8008	04-Nov-13	11042013-002.SSF	156184.2729	12439
722231.363	4294389.019	8194	04-Nov-13	11042013-002.SSF	156185.2859	12440
722231.422	4294389.023	8359	04-Nov-13	11042013-002.SSF	156186.3091	12441
722231.468	4294388.999	8227	04-Nov-13	11042013-002.SSF	156187.2461	12442
722231.496	4294388.915	8212	04-Nov-13	11042013-002.SSF	156188.3921	12443
722231.541	4294388.852	8152	04-Nov-13	11042013-002.SSF	156189.2539	12444
722231.646	4294388.619	8290	04-Nov-13	11042013-002.SSF	156190.312	12445
722231.719	4294388.334	8143	04-Nov-13	11042013-002.SSF	156191.21	12446
722231.713	4294388.226	8495	04-Nov-13	11042013-002.SSF	156192.353	12447
722231.79	4294388.203	8423	04-Nov-13	11042013-002.SSF	156193.2539	12448
722231.8	4294388.329	8443	04-Nov-13	11042013-002.SSF	156194.262	12449
722231.744	4294388.524	8552	04-Nov-13	11042013-002.SSF	156195.2859	12450
722231.646	4294388.695	8755	04-Nov-13	11042013-002.SSF	156196.262	12451
722231.576	4294388.798	8975	04-Nov-13	11042013-002.SSF	156197.2791	12452
722231.541	4294388.846	8813	04-Nov-13	11042013-002.SSF	156198.3191	12453
722231.494	4294388.873	8655	04-Nov-13	11042013-002.SSF	156199.3149	12454
722231.476	4294388.89	8491	04-Nov-13	11042013-002.SSF	156200.3259	12455
722231.503	4294388.904	8481	04-Nov-13	11042013-002.SSF	156201.2639	12456
722231.498	4294388.919	8108	04-Nov-13	11042013-002.SSF	156202.292	12457
722231.403	4294388.925	8138	04-Nov-13	11042013-002.SSF	156203.241	12458
722231.244	4294389.037	8590	04-Nov-13	11042013-002.SSF	156204.3491	12459
722230.991	4294389.247	8987	04-Nov-13	11042013-002.SSF	156205.333	12460
722230.76	4294389.461	9135	04-Nov-13	11042013-002.SSF	156206.334	12461
722230.568	4294389.616	9263	04-Nov-13	11042013-002.SSF	156207.3459	12462
722230.391	4294389.643	9313	04-Nov-13	11042013-002.SSF	156208.2771	12463
722230.273	4294389.553	8328	04-Nov-13	11042013-002.SSF	156209.241	12464
722230.134	4294389.514	7925	04-Nov-13	11042013-002.SSF	156210.3411	12465
722230.045	4294389.499	8335	04-Nov-13	11042013-002.SSF	156211.228	12466
722229.983	4294389.357	8543	04-Nov-13	11042013-002.SSF	156212.2849	12467
722229.893	4294389.078	8540	04-Nov-13	11042013-002.SSF	156213.2959	12468
722229.83	4294388.889	7661	04-Nov-13	11042013-002.SSF	156214.3401	12469
722229.787	4294388.76	8074	04-Nov-13	11042013-002.SSF	156215.1799	12470
722229.759	4294388.659	8607	04-Nov-13	11042013-002.SSF	156216.321	12471
722229.697	4294388.634	8523	04-Nov-13	11042013-002.SSF	156217.188	12472
722229.546	4294388.628	8694	04-Nov-13	11042013-002.SSF	156218.334	12473
722229.459	4294388.607	8595	04-Nov-13	11042013-002.SSF	156219.198	12474
722229.393	4294388.567	8517	04-Nov-13	11042013-002.SSF	156220.2871	12475
722229.361	4294388.557	9231	04-Nov-13	11042013-002.SSF	156221.24	12476
722229.341	4294388.587	8740	04-Nov-13	11042013-002.SSF	156222.2849	12477
722229.434	4294388.642	8651	04-Nov-13	11042013-002.SSF	156223.2319	12478
722229.515	4294388.658	8076	04-Nov-13	11042013-002.SSF	156224.28	12479
722229.421	4294388.605	7610	04-Nov-13	11042013-002.SSF	156225.1799	12480
722229.356	4294388.631	7708	04-Nov-13	11042013-002.SSF	156226.2739	12481

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722229.332	4294388.601	8340	04-Nov-13	11042013-002.SSF	156228.2781	12483
722229.374	4294388.587	8794	04-Nov-13	11042013-002.SSF	156229.231	12484
722229.394	4294388.559	8411	04-Nov-13	11042013-002.SSF	156230.2839	12485
722229.265	4294388.535	8054	04-Nov-13	11042013-002.SSF	156231.228	12486
722229.224	4294388.402	8145	04-Nov-13	11042013-002.SSF	156232.2791	12487
722229.251	4294388.311	8316	04-Nov-13	11042013-002.SSF	156233.228	12488
722229.259	4294388.23	8623	04-Nov-13	11042013-002.SSF	156234.313	12489
722229.27	4294388.149	8180	04-Nov-13	11042013-002.SSF	156235.188	12490
722229.262	4294388.076	8501	04-Nov-13	11042013-002.SSF	156236.333	12491
722229.22	4294388.042	8397	04-Nov-13	11042013-002.SSF	156237.24	12492
722229.193	4294387.99	8278	04-Nov-13	11042013-002.SSF	156238.2939	12493
722229.19	4294387.94	8466	04-Nov-13	11042013-002.SSF	156239.23	12494
722229.192	4294387.854	8205	04-Nov-13	11042013-002.SSF	156240.2881	12495
722229.193	4294387.757	8380	04-Nov-13	11042013-002.SSF	156241.2839	12496
722229.252	4294387.661	8876	04-Nov-13	11042013-002.SSF	156242.2419	12497
722229.436	4294387.588	8840	04-Nov-13	11042013-002.SSF	156243.1909	12498
722229.544	4294387.508	8137	04-Nov-13	11042013-002.SSF	156244.2439	12499
722229.623	4294387.491	8335	04-Nov-13	11042013-002.SSF	156245.1799	12500
722229.672	4294387.518	8723	04-Nov-13	11042013-002.SSF	156246.269	12501
722229.686	4294387.567	8177	04-Nov-13	11042013-002.SSF	156247.249	12502
722229.69	4294387.628	8289	04-Nov-13	11042013-002.SSF	156248.311	12503
722229.682	4294387.633	7895	04-Nov-13	11042013-002.SSF	156249.293	12504
722229.59	4294387.611	7733	04-Nov-13	11042013-002.SSF	156250.2991	12505
722229.587	4294387.668	7545	04-Nov-13	11042013-002.SSF	156251.2891	12506
722229.634	4294387.657	7641	04-Nov-13	11042013-002.SSF	156252.4099	12507
722229.669	4294387.613	7508	04-Nov-13	11042013-002.SSF	156253.2971	12508
722229.732	4294387.559	7666	04-Nov-13	11042013-002.SSF	156254.28	12509
722229.805	4294387.504	8489	04-Nov-13	11042013-002.SSF	156255.2891	12510
722229.855	4294387.489	8353	04-Nov-13	11042013-002.SSF	156256.281	12511
722229.872	4294387.509	8306	04-Nov-13	11042013-002.SSF	156257.283	12512
722229.902	4294387.547	8302	04-Nov-13	11042013-002.SSF	156258.2981	12513
722229.876	4294387.557	8187	04-Nov-13	11042013-002.SSF	156259.2361	12514
722230.056	4294387.392	8137	04-Nov-13	11042013-002.SSF	156268.321	12515
722230.155	4294387.418	8424	04-Nov-13	11042013-002.SSF	156269.291	12516
722230.342	4294387.533	8819	04-Nov-13	11042013-002.SSF	156270.304	12517
722230.465	4294387.56	8688	04-Nov-13	11042013-002.SSF	156271.1499	12518
722230.56	4294387.584	8892	04-Nov-13	11042013-002.SSF	156272.259	12519
722230.6	4294387.623	8601	04-Nov-13	11042013-002.SSF	156273.168	12520
722230.668	4294387.63	7936	04-Nov-13	11042013-002.SSF	156274.2549	12521
722230.737	4294387.617	8251	04-Nov-13	11042013-002.SSF	156275.2361	12522
722230.751	4294387.563	8166	04-Nov-13	11042013-002.SSF	156276.334	12523
722230.752	4294387.534	8216	04-Nov-13	11042013-002.SSF	156277.301	12524
722230.75	4294387.528	8371	04-Nov-13	11042013-002.SSF	156278.2871	12525
722230.748	4294387.543	8384	04-Nov-13	11042013-002.SSF	156279.25	12526
722230.755	4294387.551	8796	04-Nov-13	11042013-002.SSF	156280.2939	12527
722230.764	4294387.543	8952	04-Nov-13	11042013-002.SSF	156281.271	12528

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722230.75	4294387.53	9596	04-Nov-13	11042013-002.SSF	156282.239	12529
722230.695	4294387.408	9057	04-Nov-13	11042013-002.SSF	156283.231	12530
722230.55	4294387.075	8845	04-Nov-13	11042013-002.SSF	156284.2539	12531
722230.489	4294386.929	8005	04-Nov-13	11042013-002.SSF	156285.3069	12532
722230.437	4294386.827	8328	04-Nov-13	11042013-002.SSF	156286.2649	12533
722230.428	4294386.761	8464	04-Nov-13	11042013-002.SSF	156287.304	12534
722230.389	4294386.699	8376	04-Nov-13	11042013-002.SSF	156288.324	12535
722230.333	4294386.672	8814	04-Nov-13	11042013-002.SSF	156289.3101	12536
722230.302	4294386.633	8422	04-Nov-13	11042013-002.SSF	156290.321	12537
722230.281	4294386.605	8412	04-Nov-13	11042013-002.SSF	156291.218	12538
722230.291	4294386.627	7522	04-Nov-13	11042013-002.SSF	156292.3081	12539
722230.324	4294386.619	7846	04-Nov-13	11042013-002.SSF	156293.1931	12540
722230.338	4294386.627	7593	04-Nov-13	11042013-002.SSF	156294.312	12541
722230.324	4294386.665	7578	04-Nov-13	11042013-002.SSF	156295.2251	12542
722230.319	4294386.659	7885	04-Nov-13	11042013-002.SSF	156296.354	12543
722230.333	4294386.656	8140	04-Nov-13	11042013-002.SSF	156297.2581	12544
722230.359	4294386.667	8591	04-Nov-13	11042013-002.SSF	156298.3391	12545
722230.37	4294386.693	8177	04-Nov-13	11042013-002.SSF	156299.2271	12546
722230.445	4294386.715	7465	04-Nov-13	11042013-002.SSF	156300.301	12547
722230.584	4294386.722	7896	04-Nov-13	11042013-002.SSF	156301.25	12548
722230.883	4294386.695	7914	04-Nov-13	11042013-002.SSF	156302.2461	12549
722231.144	4294386.484	8096	04-Nov-13	11042013-002.SSF	156303.145	12550
722231.714	4294386.398	8432	04-Nov-13	11042013-002.SSF	156304.2271	12551
722231.994	4294386.459	7975	04-Nov-13	11042013-002.SSF	156305.188	12552
722231.944	4294386.499	8303	04-Nov-13	11042013-002.SSF	156306.2791	12553
722231.918	4294386.524	7940	04-Nov-13	11042013-002.SSF	156307.2	12554
722231.926	4294386.523	7826	04-Nov-13	11042013-002.SSF	156308.251	12555
722231.917	4294386.504	8092	04-Nov-13	11042013-002.SSF	156309.23	12556
722231.887	4294386.509	8227	04-Nov-13	11042013-002.SSF	156310.3149	12557
722231.905	4294386.534	7972	04-Nov-13	11042013-002.SSF	156311.2319	12558
722231.89	4294386.603	7649	04-Nov-13	11042013-002.SSF	156312.2859	12559
722231.846	4294386.628	7828	04-Nov-13	11042013-002.SSF	156313.147	12560
722231.786	4294386.639	8100	04-Nov-13	11042013-002.SSF	156314.2319	12561
722231.757	4294386.637	8269	04-Nov-13	11042013-002.SSF	156315.1741	12562
722231.723	4294386.588	8131	04-Nov-13	11042013-002.SSF	156316.22	12563
722231.75	4294386.467	8219	04-Nov-13	11042013-002.SSF	156317.175	12564
722231.775	4294386.355	8313	04-Nov-13	11042013-002.SSF	156318.2319	12565
722231.767	4294386.266	8531	04-Nov-13	11042013-002.SSF	156319.2019	12566
722231.726	4294386.261	8308	04-Nov-13	11042013-002.SSF	156320.2871	12567
722231.734	4294386.278	7921	04-Nov-13	11042013-002.SSF	156321.1631	12568
722231.648	4294386.393	8880	04-Nov-13	11042013-002.SSF	156322.28	12569
722231.603	4294386.423	8617	04-Nov-13	11042013-002.SSF	156323.3059	12570
722231.592	4294386.4	8890	04-Nov-13	11042013-002.SSF	156324.2649	12571
722231.576	4294386.366	8938	04-Nov-13	11042013-002.SSF	156325.1919	12572
722231.557	4294386.385	8372	04-Nov-13	11042013-002.SSF	156326.2791	12573
722231.546	4294386.372	8977	04-Nov-13	11042013-002.SSF	156327.239	12574
722231.524	4294386.369	8852	04-Nov-13	11042013-002.SSF	156328.304	12575

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722231.519	4294386.338	8729	04-Nov-13	11042013-002.SSF	156329.198	12576
722231.504	4294386.321	8532	04-Nov-13	11042013-002.SSF	156330.3049	12577
722231.479	4294386.302	8497	04-Nov-13	11042013-002.SSF	156331.2361	12578
722231.398	4294386.262	9099	04-Nov-13	11042013-002.SSF	156332.3201	12579
722231.293	4294386.218	8898	04-Nov-13	11042013-002.SSF	156333.2209	12580
722231.234	4294386.178	8740	04-Nov-13	11042013-002.SSF	156334.3369	12581
722231.195	4294386.153	8718	04-Nov-13	11042013-002.SSF	156335.1941	12582
722231.174	4294386.169	8504	04-Nov-13	11042013-002.SSF	156336.314	12583
722231.18	4294386.077	8353	04-Nov-13	11042013-002.SSF	156337.208	12584
722231.172	4294386.018	8584	04-Nov-13	11042013-002.SSF	156338.3081	12585
722231.163	4294386.05	8488	04-Nov-13	11042013-002.SSF	156339.1709	12586
722231.153	4294386.122	8367	04-Nov-13	11042013-002.SSF	156340.2991	12587
722231.137	4294386.205	8696	04-Nov-13	11042013-002.SSF	156341.2661	12588
722231.13	4294386.314	8604	04-Nov-13	11042013-002.SSF	156342.334	12589
722231.176	4294386.449	8687	04-Nov-13	11042013-002.SSF	156343.24	12590
722231.256	4294386.661	8194	04-Nov-13	11042013-002.SSF	156344.2871	12591
722231.297	4294386.829	8464	04-Nov-13	11042013-002.SSF	156345.2371	12592
722231.278	4294387.031	8728	04-Nov-13	11042013-002.SSF	156346.301	12593
722231.27	4294387.142	8622	04-Nov-13	11042013-002.SSF	156347.189	12594
722231.253	4294387.267	8532	04-Nov-13	11042013-002.SSF	156348.23	12595
722231.268	4294387.372	8332	04-Nov-13	11042013-002.SSF	156349.1799	12596
722231.325	4294387.509	8046	04-Nov-13	11042013-002.SSF	156350.301	12597
722231.392	4294387.629	8388	04-Nov-13	11042013-002.SSF	156351.2041	12598
722231.469	4294387.75	8528	04-Nov-13	11042013-002.SSF	156352.304	12599
722231.502	4294387.818	8284	04-Nov-13	11042013-002.SSF	156353.1941	12600
722231.546	4294387.909	8432	04-Nov-13	11042013-002.SSF	156354.3501	12601
722231.57	4294387.97	8351	04-Nov-13	11042013-002.SSF	156355.2019	12602
722231.614	4294388.051	8267	04-Nov-13	11042013-002.SSF	156356.2871	12603
722231.628	4294388.092	8070	04-Nov-13	11042013-002.SSF	156357.2361	12604
722231.609	4294388.109	8139	04-Nov-13	11042013-002.SSF	156358.323	12605
722231.601	4294388.102	8328	04-Nov-13	11042013-002.SSF	156359.1699	12606
722231.589	4294388.119	8502	04-Nov-13	11042013-002.SSF	156360.2839	12607
722231.571	4294388.14	8052	04-Nov-13	11042013-002.SSF	156361.1631	12608
722231.556	4294388.16	7897	04-Nov-13	11042013-002.SSF	156362.2261	12609
722231.527	4294388.166	7704	04-Nov-13	11042013-002.SSF	156363.123	12610
722231.536	4294388.193	8024	04-Nov-13	11042013-002.SSF	156364.259	12611
722231.553	4294388.217	7513	04-Nov-13	11042013-002.SSF	156365.189	12612
722231.619	4294388.268	8013	04-Nov-13	11042013-002.SSF	156366.342	12613
722231.647	4294388.302	8167	04-Nov-13	11042013-002.SSF	156367.2339	12614
722231.672	4294388.316	8156	04-Nov-13	11042013-002.SSF	156368.3811	12615
722231.691	4294388.331	8098	04-Nov-13	11042013-002.SSF	156369.2061	12616
722231.717	4294388.359	8470	04-Nov-13	11042013-002.SSF	156370.28	12617
722231.732	4294388.36	8567	04-Nov-13	11042013-002.SSF	156371.1689	12618
722231.641	4294388.334	8546	04-Nov-13	11042013-002.SSF	156372.2649	12619
722231.618	4294388.285	8385	04-Nov-13	11042013-002.SSF	156373.2461	12620
722231.575	4294388.272	9074	04-Nov-13	11042013-002.SSF	156374.2981	12621
722231.545	4294388.256	8891	04-Nov-13	11042013-002.SSF	156375.188	12622

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722231.481	4294388.255	8549	04-Nov-13	11042013-002.SSF	156376.272	12623
722231.472	4294388.252	8888	04-Nov-13	11042013-002.SSF	156377.23	12624
722231.48	4294388.258	8510	04-Nov-13	11042013-002.SSF	156378.333	12625
722231.508	4294388.265	8251	04-Nov-13	11042013-002.SSF	156379.1799	12626
722231.548	4294388.274	8211	04-Nov-13	11042013-002.SSF	156380.29	12627
722231.582	4294388.283	8369	04-Nov-13	11042013-002.SSF	156381.186	12628
722231.631	4294388.302	8187	04-Nov-13	11042013-002.SSF	156382.3931	12629
722231.663	4294388.315	8145	04-Nov-13	11042013-002.SSF	156383.291	12630
722231.688	4294388.348	8062	04-Nov-13	11042013-002.SSF	156384.3401	12631
722231.692	4294388.38	8292	04-Nov-13	11042013-002.SSF	156385.1799	12632
722231.708	4294388.406	8549	04-Nov-13	11042013-002.SSF	156386.3191	12633
722231.741	4294388.412	8499	04-Nov-13	11042013-002.SSF	156387.197	12634
722231.719	4294388.415	8013	04-Nov-13	11042013-002.SSF	156388.345	12635
722231.729	4294388.394	8130	04-Nov-13	11042013-002.SSF	156389.1819	12636
722231.752	4294388.4	8323	04-Nov-13	11042013-002.SSF	156390.2749	12637
722231.783	4294388.447	8206	04-Nov-13	11042013-002.SSF	156391.1621	12638
722231.814	4294388.478	8861	04-Nov-13	11042013-002.SSF	156392.2451	12639
722231.815	4294388.472	8861	04-Nov-13	11042013-002.SSF	156393.1221	12640
722231.822	4294388.452	8652	04-Nov-13	11042013-002.SSF	156394.259	12641
722231.85	4294388.455	8812	04-Nov-13	11042013-002.SSF	156395.218	12642
722231.864	4294388.466	9111	04-Nov-13	11042013-002.SSF	156396.2881	12643
722231.887	4294388.45	8088	04-Nov-13	11042013-002.SSF	156397.2251	12644
722231.9	4294388.441	8209	04-Nov-13	11042013-002.SSF	156398.3411	12645
722231.935	4294388.423	8142	04-Nov-13	11042013-002.SSF	156399.2209	12646
722231.971	4294388.402	7925	04-Nov-13	11042013-002.SSF	156400.2949	12647
722231.998	4294388.374	8103	04-Nov-13	11042013-002.SSF	156401.1699	12648
722232.009	4294388.381	8240	04-Nov-13	11042013-002.SSF	156402.2759	12649
722232.027	4294388.39	8002	04-Nov-13	11042013-002.SSF	156403.135	12650
722232.049	4294388.428	8094	04-Nov-13	11042013-002.SSF	156404.2639	12651
722232.018	4294388.456	8137	04-Nov-13	11042013-002.SSF	156405.1831	12652
722231.889	4294388.397	7667	04-Nov-13	11042013-002.SSF	156406.2529	12653
722231.845	4294388.358	7770	04-Nov-13	11042013-002.SSF	156407.197	12654
722231.823	4294388.339	7963	04-Nov-13	11042013-002.SSF	156408.251	12655
722231.845	4294388.33	8657	04-Nov-13	11042013-002.SSF	156409.1731	12656
722231.846	4294388.295	8769	04-Nov-13	11042013-002.SSF	156410.2791	12657
722231.833	4294388.253	8495	04-Nov-13	11042013-002.SSF	156411.2151	12658
722231.793	4294388.207	8963	04-Nov-13	11042013-002.SSF	156412.302	12659
722231.754	4294388.161	8702	04-Nov-13	11042013-002.SSF	156413.262	12660
722231.734	4294388.12	8547	04-Nov-13	11042013-002.SSF	156414.324	12661
722231.726	4294388.083	8542	04-Nov-13	11042013-002.SSF	156415.1809	12662
722231.709	4294388.078	8637	04-Nov-13	11042013-002.SSF	156416.238	12663
722231.734	4294388.088	7896	04-Nov-13	11042013-002.SSF	156417.1121	12664
722231.742	4294388.093	8199	04-Nov-13	11042013-002.SSF	156418.2549	12665
722231.724	4294388.074	8482	04-Nov-13	11042013-002.SSF	156419.1189	12666
722231.732	4294388.028	8476	04-Nov-13	11042013-002.SSF	156420.187	12667
722231.758	4294387.941	8570	04-Nov-13	11042013-002.SSF	156421.177	12668
722231.862	4294387.831	8278	04-Nov-13	11042013-002.SSF	156422.239	12669

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722231.686	4294387.769	8887	04-Nov-13	11042013-002.SSF	156424.177	12671
722231.589	4294387.653	8854	04-Nov-13	11042013-002.SSF	156425.1731	12672
722231.577	4294387.608	7912	04-Nov-13	11042013-002.SSF	156426.3159	12673
722231.616	4294387.591	8036	04-Nov-13	11042013-002.SSF	156427.1689	12674
722231.678	4294387.625	8442	04-Nov-13	11042013-002.SSF	156428.3149	12675
722231.712	4294387.668	8446	04-Nov-13	11042013-002.SSF	156429.1699	12676
722231.774	4294387.657	8201	04-Nov-13	11042013-002.SSF	156430.198	12677
722231.84	4294387.497	8295	04-Nov-13	11042013-002.SSF	156431.1079	12678
722231.748	4294387.264	8693	04-Nov-13	11042013-002.SSF	156432.2849	12679
722231.563	4294387.262	8910	04-Nov-13	11042013-002.SSF	156433.1189	12680
722231.291	4294387.297	8567	04-Nov-13	11042013-002.SSF	156434.207	12681
722231.164	4294387.224	8621	04-Nov-13	11042013-002.SSF	156435.2119	12682
722231.101	4294387.189	8839	04-Nov-13	11042013-002.SSF	156436.27	12683
722231.061	4294387.131	9052	04-Nov-13	11042013-002.SSF	156437.1321	12684
722230.995	4294387.007	9277	04-Nov-13	11042013-002.SSF	156438.2561	12685
722230.925	4294386.89	8458	04-Nov-13	11042013-002.SSF	156439.177	12686
722230.817	4294386.785	8627	04-Nov-13	11042013-002.SSF	156440.24	12687
722230.759	4294386.738	8835	04-Nov-13	11042013-002.SSF	156441.1289	12688
722230.751	4294386.789	7925	04-Nov-13	11042013-002.SSF	156442.249	12689
722230.674	4294386.819	7998	04-Nov-13	11042013-002.SSF	156443.1909	12690
722230.678	4294387.004	8233	04-Nov-13	11042013-002.SSF	156444.199	12691
722230.938	4294387.192	7751	04-Nov-13	11042013-002.SSF	156445.2361	12692
722231.413	4294387.152	7712	04-Nov-13	11042013-002.SSF	156446.3291	12693
722231.675	4294387.329	7878	04-Nov-13	11042013-002.SSF	156447.1589	12694
722232.134	4294387.28	7836	04-Nov-13	11042013-002.SSF	156448.2949	12695
722232.66	4294387.504	7715	04-Nov-13	11042013-002.SSF	156449.231	12696
722232.815	4294387.859	8097	04-Nov-13	11042013-002.SSF	156450.2241	12697
722232.828	4294387.893	7937	04-Nov-13	11042013-002.SSF	156451.2051	12698
722232.748	4294387.928	8409	04-Nov-13	11042013-002.SSF	156452.1721	12699
722232.653	4294387.968	7903	04-Nov-13	11042013-002.SSF	156453.1741	12700
722232.571	4294387.931	8240	04-Nov-13	11042013-002.SSF	156454.2261	12701
722232.46	4294387.826	8400	04-Nov-13	11042013-002.SSF	156455.199	12702
722232.358	4294387.786	7987	04-Nov-13	11042013-002.SSF	156456.25	12703
722232.326	4294387.738	8235	04-Nov-13	11042013-002.SSF	156457.197	12704
722232.309	4294387.703	8690	04-Nov-13	11042013-002.SSF	156458.2371	12705
722232.306	4294387.741	8608	04-Nov-13	11042013-002.SSF	156459.177	12706
722232.266	4294387.747	8427	04-Nov-13	11042013-002.SSF	156460.2859	12707
722232.17	4294387.684	8302	04-Nov-13	11042013-002.SSF	156461.2329	12708
722232.111	4294387.665	7932	04-Nov-13	11042013-002.SSF	156462.3159	12709
722232.088	4294387.668	8077	04-Nov-13	11042013-002.SSF	156463.27	12710
722232.083	4294387.645	8998	04-Nov-13	11042013-002.SSF	156464.231	12711
722232.073	4294387.672	8369	04-Nov-13	11042013-002.SSF	156465.175	12712
722232.098	4294387.773	8345	04-Nov-13	11042013-002.SSF	156466.304	12713
722232.088	4294387.833	8399	04-Nov-13	11042013-002.SSF	156467.155	12714
722231.941	4294387.919	7844	04-Nov-13	11042013-002.SSF	156468.24	12715
722231.863	4294388.117	7697	04-Nov-13	11042013-002.SSF	156469.2461	12716

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722231.851	4294388.213	8035	04-Nov-13	11042013-002.SSF	156470.2849	12717
722231.86	4294388.269	8142	04-Nov-13	11042013-002.SSF	156471.217	12718
722231.853	4294388.274	8337	04-Nov-13	11042013-002.SSF	156472.301	12719
722231.84	4294388.238	8672	04-Nov-13	11042013-002.SSF	156473.1799	12720
722231.808	4294388.176	8163	04-Nov-13	11042013-002.SSF	156474.281	12721
722231.815	4294388.115	7629	04-Nov-13	11042013-002.SSF	156475.2	12722
722231.912	4294388.168	8056	04-Nov-13	11042013-002.SSF	156476.217	12723
722231.971	4294388.07	8052	04-Nov-13	11042013-002.SSF	156477.2119	12724
722231.964	4294387.558	8063	04-Nov-13	11042013-002.SSF	156478.322	12725
722231.988	4294387.214	8031	04-Nov-13	11042013-002.SSF	156479.2161	12726
722232.086	4294386.884	8327	04-Nov-13	11042013-002.SSF	156480.322	12727
722232.17	4294386.707	8315	04-Nov-13	11042013-002.SSF	156481.219	12728
722232.264	4294386.561	8608	04-Nov-13	11042013-002.SSF	156482.2671	12729
722232.335	4294386.462	8907	04-Nov-13	11042013-002.SSF	156483.1499	12730
722232.586	4294386.476	8977	04-Nov-13	11042013-002.SSF	156484.2759	12731
722232.689	4294386.503	8612	04-Nov-13	11042013-002.SSF	156485.0681	12732
722232.858	4294386.496	8677	04-Nov-13	11042013-002.SSF	156486.2009	12733
722233.009	4294386.481	8713	04-Nov-13	11042013-002.SSF	156487.103	12734
722233.181	4294386.465	8478	04-Nov-13	11042013-002.SSF	156488.178	12735
722233.223	4294386.422	8557	04-Nov-13	11042013-002.SSF	156489.0979	12736
722233.295	4294386.419	8398	04-Nov-13	11042013-002.SSF	156490.197	12737
722233.106	4294386.478	8421	04-Nov-13	11042013-002.SSF	156491.271	12738
722233.046	4294386.511	8592	04-Nov-13	11042013-002.SSF	156492.2429	12739
722233.022	4294386.528	9100	04-Nov-13	11042013-002.SSF	156493.1641	12740
722232.991	4294386.665	8614	04-Nov-13	11042013-002.SSF	156494.2241	12741
722232.967	4294386.78	8655	04-Nov-13	11042013-002.SSF	156495.1431	12742
722232.948	4294386.883	8378	04-Nov-13	11042013-002.SSF	156496.1709	12743
722232.905	4294386.984	8995	04-Nov-13	11042013-002.SSF	156497.1399	12744
722232.831	4294387.133	8847	04-Nov-13	11042013-002.SSF	156498.1321	12745
722232.742	4294387.224	8516	04-Nov-13	11042013-002.SSF	156499.1709	12746
722232.703	4294387.262	8495	04-Nov-13	11042013-002.SSF	156500.2891	12747
722232.676	4294387.281	8663	04-Nov-13	11042013-002.SSF	156501.1289	12748
722232.679	4294387.311	8803	04-Nov-13	11042013-002.SSF	156502.2271	12749
722232.706	4294387.342	8124	04-Nov-13	11042013-002.SSF	156503.1919	12750
722232.71	4294387.374	8155	04-Nov-13	11042013-002.SSF	156504.25	12751
722232.739	4294387.368	8089	04-Nov-13	11042013-002.SSF	156505.1221	12752
722232.84	4294387.364	8503	04-Nov-13	11042013-002.SSF	156506.2549	12753
722232.963	4294387.378	8577	04-Nov-13	11042013-002.SSF	156507.0681	12754
722233.172	4294387.413	9137	04-Nov-13	11042013-002.SSF	156508.241	12755
722233.339	4294387.375	9205	04-Nov-13	11042013-002.SSF	156509.2241	12756
722233.447	4294387.139	9175	04-Nov-13	11042013-002.SSF	156510.23	12757
722233.491	4294386.929	9001	04-Nov-13	11042013-002.SSF	156511.251	12758
722233.456	4294386.768	8835	04-Nov-13	11042013-002.SSF	156512.2671	12759
722233.353	4294386.645	8562	04-Nov-13	11042013-002.SSF	156513.106	12760
722233.377	4294386.582	8056	04-Nov-13	11042013-002.SSF	156514.2141	12761
722233.385	4294386.522	8379	04-Nov-13	11042013-002.SSF	156515.2	12762
722233.379	4294386.451	8343	04-Nov-13	11042013-002.SSF	156516.2471	12763

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722233.407	4294386.399	8488	04-Nov-13	11042013-002.SSF	156517.187	12764
722233.495	4294386.328	8742	04-Nov-13	11042013-002.SSF	156518.335	12765
722233.582	4294386.306	8397	04-Nov-13	11042013-002.SSF	156519.1279	12766
722233.703	4294386.296	8301	04-Nov-13	11042013-002.SSF	156520.2739	12767
722233.767	4294386.247	8164	04-Nov-13	11042013-002.SSF	156521.2339	12768
722233.813	4294386.232	7390	04-Nov-13	11042013-002.SSF	156522.3	12769
722233.85	4294386.298	7501	04-Nov-13	11042013-002.SSF	156523.1831	12770
722233.924	4294386.132	7512	04-Nov-13	11042013-002.SSF	156524.2759	12771
722233.976	4294386.03	7930	04-Nov-13	11042013-002.SSF	156525.2319	12772
722233.973	4294385.959	8098	04-Nov-13	11042013-002.SSF	156526.2661	12773
722234.025	4294385.942	8223	04-Nov-13	11042013-002.SSF	156527.1479	12774
722233.954	4294385.924	8585	04-Nov-13	11042013-002.SSF	156528.2439	12775
722233.778	4294385.945	8376	04-Nov-13	11042013-002.SSF	156529.1521	12776
722233.672	4294385.947	8387	04-Nov-13	11042013-002.SSF	156530.1721	12777
722233.64	4294385.939	8910	04-Nov-13	11042013-002.SSF	156531.1599	12778
722233.627	4294385.937	8462	04-Nov-13	11042013-002.SSF	156532.1531	12779
722233.574	4294385.919	8382	04-Nov-13	11042013-002.SSF	156533.145	12780
722233.535	4294385.917	8097	04-Nov-13	11042013-002.SSF	156534.187	12781
722233.501	4294385.928	8942	04-Nov-13	11042013-002.SSF	156535.25	12782
722233.422	4294385.926	8900	04-Nov-13	11042013-002.SSF	156536.2529	12783
722233.366	4294385.924	8666	04-Nov-13	11042013-002.SSF	156537.199	12784
722233.326	4294385.892	8145	04-Nov-13	11042013-002.SSF	156538.3049	12785
722233.283	4294385.88	7859	04-Nov-13	11042013-002.SSF	156539.3059	12786
722233.283	4294385.881	8463	04-Nov-13	11042013-002.SSF	156540.2019	12787
722233.273	4294385.88	8405	04-Nov-13	11042013-002.SSF	156541.21	12788
722233.309	4294385.89	8155	04-Nov-13	11042013-002.SSF	156542.176	12789
722233.291	4294385.898	7782	04-Nov-13	11042013-002.SSF	156543.157	12790
722233.177	4294385.899	7992	04-Nov-13	11042013-002.SSF	156544.238	12791
722233.173	4294385.916	7938	04-Nov-13	11042013-002.SSF	156545.146	12792
722233.216	4294385.929	7953	04-Nov-13	11042013-002.SSF	156546.1509	12793
722233.233	4294385.923	8366	04-Nov-13	11042013-002.SSF	156547.1411	12794
722233.201	4294385.929	8043	04-Nov-13	11042013-002.SSF	156548.29	12795
722233.192	4294385.958	8004	04-Nov-13	11042013-002.SSF	156549.217	12796
722233.198	4294385.999	8492	04-Nov-13	11042013-002.SSF	156550.2671	12797
722233.235	4294386.042	8174	04-Nov-13	11042013-002.SSF	156551.2361	12798
722233.276	4294386.081	8820	04-Nov-13	11042013-002.SSF	156552.2671	12799
722233.281	4294386.084	8359	04-Nov-13	11042013-002.SSF	156553.2051	12800
722233.32	4294386.195	8909	04-Nov-13	11042013-002.SSF	156554.271	12801
722233.363	4294386.198	7749	04-Nov-13	11042013-002.SSF	156555.1841	12802
722233.331	4294386.171	7651	04-Nov-13	11042013-002.SSF	156556.2771	12803
722233.334	4294386.163	7628	04-Nov-13	11042013-002.SSF	156557.1169	12804
722233.36	4294386.269	8074	04-Nov-13	11042013-002.SSF	156558.2451	12805
722233.307	4294386.449	8374	04-Nov-13	11042013-002.SSF	156559.0811	12806
722233.221	4294386.326	8018	04-Nov-13	11042013-002.SSF	156560.2871	12807
722233.283	4294386.209	8207	04-Nov-13	11042013-002.SSF	156561.1499	12808
722233.339	4294386.14	8149	04-Nov-13	11042013-002.SSF	156562.2361	12809
722233.369	4294386.091	8214	04-Nov-13	11042013-002.SSF	156563.23	12810

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722233.284	4294386.009	8235	04-Nov-13	11042013-002.SSF	156564.269	12811
722233.266	4294385.954	8262	04-Nov-13	11042013-002.SSF	156565.093	12812
722233.303	4294386.006	8487	04-Nov-13	11042013-002.SSF	156566.208	12813
722233.212	4294386.319	8344	04-Nov-13	11042013-002.SSF	156567.1079	12814
722233.112	4294386.467	8218	04-Nov-13	11042013-002.SSF	156568.1699	12815
722233.052	4294386.559	8133	04-Nov-13	11042013-002.SSF	156569.03	12816
722232.744	4294386.946	8482	04-Nov-13	11042013-002.SSF	156570.207	12817
722232.571	4294387.298	8251	04-Nov-13	11042013-002.SSF	156571.2251	12818
722232.441	4294387.535	8346	04-Nov-13	11042013-002.SSF	156572.261	12819
722232.36	4294387.655	8707	04-Nov-13	11042013-002.SSF	156573.0959	12820
722232.284	4294387.736	8287	04-Nov-13	11042013-002.SSF	156574.26	12821
722232.184	4294387.742	8066	04-Nov-13	11042013-002.SSF	156575.1479	12822
722231.922	4294387.634	8302	04-Nov-13	11042013-002.SSF	156576.1899	12823
722231.718	4294387.322	8360	04-Nov-13	11042013-002.SSF	156577.2241	12824
722231.668	4294387.105	7920	04-Nov-13	11042013-002.SSF	156578.1721	12825
722231.664	4294386.941	8092	04-Nov-13	11042013-002.SSF	156579.1479	12826
722231.705	4294386.794	8879	04-Nov-13	11042013-002.SSF	156580.186	12827
722231.738	4294386.721	9322	04-Nov-13	11042013-002.SSF	156581.1509	12828
722231.792	4294386.658	8806	04-Nov-13	11042013-002.SSF	156582.165	12829
722231.924	4294386.61	8951	04-Nov-13	11042013-002.SSF	156583.166	12830
722232.094	4294386.566	8620	04-Nov-13	11042013-002.SSF	156584.196	12831
722232.182	4294386.496	8621	04-Nov-13	11042013-002.SSF	156585.1631	12832
722232.223	4294386.421	8966	04-Nov-13	11042013-002.SSF	156586.262	12833
722232.252	4294386.344	8208	04-Nov-13	11042013-002.SSF	156587.0791	12834
722232.398	4294386.232	8187	04-Nov-13	11042013-002.SSF	156588.271	12835
722232.516	4294386.159	7793	04-Nov-13	11042013-002.SSF	156589.0911	12836
722232.618	4294386.083	7871	04-Nov-13	11042013-002.SSF	156590.1831	12837
722232.675	4294386	8365	04-Nov-13	11042013-002.SSF	156591.177	12838
722232.713	4294385.95	8687	04-Nov-13	11042013-002.SSF	156592.2129	12839
722232.772	4294385.907	8501	04-Nov-13	11042013-002.SSF	156593.2141	12840
722232.715	4294385.836	8749	04-Nov-13	11042013-002.SSF	156594.2219	12841
722232.692	4294385.754	8716	04-Nov-13	11042013-002.SSF	156595.196	12842
722232.639	4294385.696	8255	04-Nov-13	11042013-002.SSF	156596.1479	12843
722232.554	4294385.645	8093	04-Nov-13	11042013-002.SSF	156597.145	12844
722232.449	4294385.553	8212	04-Nov-13	11042013-002.SSF	156598.2371	12845
722232.393	4294385.489	7994	04-Nov-13	11042013-002.SSF	156599.1521	12846
722232.316	4294385.441	7939	04-Nov-13	11042013-002.SSF	156600.1899	12847
722232.161	4294385.473	8403	04-Nov-13	11042013-002.SSF	156601.0811	12848
722231.948	4294385.685	8312	04-Nov-13	11042013-002.SSF	156602.249	12849
722231.807	4294385.734	8080	04-Nov-13	11042013-002.SSF	156603.095	12850
722231.618	4294385.828	8437	04-Nov-13	11042013-002.SSF	156604.1709	12851
722231.195	4294386.149	8338	04-Nov-13	11042013-002.SSF	156605.196	12852
722230.947	4294386.437	8913	04-Nov-13	11042013-002.SSF	156606.325	12853
722230.906	4294386.549	8688	04-Nov-13	11042013-002.SSF	156607.189	12854
722230.86	4294386.665	8344	04-Nov-13	11042013-002.SSF	156608.1851	12855
722230.844	4294386.753	8324	04-Nov-13	11042013-002.SSF	156609.1941	12856
722230.977	4294386.865	8597	04-Nov-13	11042013-002.SSF	156610.269	12857

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722230.908	4294386.976	8511	04-Nov-13	11042013-002.SSF	156611.1392	12858
722230.785	4294387.071	8815	04-Nov-13	11042013-002.SSF	156612.252	12859
722230.926	4294387.156	8888	04-Nov-13	11042013-002.SSF	156613.1509	12860
722231.041	4294387.305	8239	04-Nov-13	11042013-002.SSF	156614.2021	12861
722231.203	4294387.046	8242	04-Nov-13	11042013-002.SSF	156615.2251	12862
722231.325	4294386.895	8416	04-Nov-13	11042013-002.SSF	156616.1938	12863
722231.388	4294386.732	8589	04-Nov-13	11042013-002.SSF	156617.1118	12864
722231.443	4294386.589	8881	04-Nov-13	11042013-002.SSF	156618.2119	12865
722231.483	4294386.479	8228	04-Nov-13	11042013-002.SSF	156619.187	12866
722231.516	4294386.361	8220	04-Nov-13	11042013-002.SSF	156620.1802	12867
722231.482	4294386.209	8704	04-Nov-13	11042013-002.SSF	156621.1709	12868
722231.326	4294386.262	8676	04-Nov-13	11042013-002.SSF	156622.1802	12869
722231.208	4294386.345	8667	04-Nov-13	11042013-002.SSF	156623.1221	12870
722231.135	4294386.434	8168	04-Nov-13	11042013-002.SSF	156624.1748	12871
722231.04	4294386.59	8442	04-Nov-13	11042013-002.SSF	156625.186	12872
722230.996	4294386.721	8821	04-Nov-13	11042013-002.SSF	156626.2739	12873
722230.973	4294386.695	8321	04-Nov-13	11042013-002.SSF	156627.105	12874
722230.962	4294386.651	8431	04-Nov-13	11042013-002.SSF	156628.1929	12875
722231.001	4294386.607	8627	04-Nov-13	11042013-002.SSF	156629.1182	12876
722231.046	4294386.569	8385	04-Nov-13	11042013-002.SSF	156630.1899	12877
722231.036	4294386.537	8242	04-Nov-13	11042013-002.SSF	156631.2271	12878
722230.991	4294386.479	8371	04-Nov-13	11042013-002.SSF	156632.1699	12879
722230.984	4294386.433	8241	04-Nov-13	11042013-002.SSF	156633.1128	12880
722230.983	4294386.401	7980	04-Nov-13	11042013-002.SSF	156634.1558	12881
722231.026	4294386.409	8246	04-Nov-13	11042013-002.SSF	156635.1328	12882
722231.038	4294386.401	8366	04-Nov-13	11042013-002.SSF	156636.144	12883
722231.033	4294386.384	8066	04-Nov-13	11042013-002.SSF	156637.084	12884
722231.014	4294386.27	8182	04-Nov-13	11042013-002.SSF	156638.1641	12885
722230.902	4294385.952	8052	04-Nov-13	11042013-002.SSF	156639.2222	12886
722230.68	4294385.872	8437	04-Nov-13	11042013-002.SSF	156640.2598	12887
722230.78	4294385.891	8263	04-Nov-13	11042013-002.SSF	156641.0801	12888
722230.959	4294386.09	8030	04-Nov-13	11042013-002.SSF	156642.248	12889
722231.066	4294386.121	7584	04-Nov-13	11042013-002.SSF	156643.1992	12890
722231.14	4294386.113	7911	04-Nov-13	11042013-002.SSF	156644.165	12891
722231.236	4294386.187	7390	04-Nov-13	11042013-002.SSF	156645.0352	12892
722231.3	4294386.2	8034	04-Nov-13	11042013-002.SSF	156646.1709	12893
722231.329	4294386.264	7654	04-Nov-13	11042013-002.SSF	156647.0928	12894
722231.346	4294386.194	8003	04-Nov-13	11042013-002.SSF	156648.1758	12895
722231.361	4294385.764	8439	04-Nov-13	11042013-002.SSF	156649.0542	12896
722231.381	4294385.528	8639	04-Nov-13	11042013-002.SSF	156650.2061	12897
722231.398	4294385.473	8085	04-Nov-13	11042013-002.SSF	156651.0562	12898
722231.42	4294385.509	7952	04-Nov-13	11042013-002.SSF	156652.1929	12899
722231.435	4294385.578	7631	04-Nov-13	11042013-002.SSF	156653.0659	12900
722231.456	4294385.633	8597	04-Nov-13	11042013-002.SSF	156654.1851	12901
722231.476	4294385.723	8263	04-Nov-13	11042013-002.SSF	156655.0142	12902
722231.49	4294385.856	8240	04-Nov-13	11042013-002.SSF	156656.1621	12903
722231.393	4294385.89	8370	04-Nov-13	11042013-002.SSF	156657.0552	12904

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722231.349	4294386.032	8810	04-Nov-13	11042013-002.SSF	156658.1802	12905
722231.328	4294386.042	7633	04-Nov-13	11042013-002.SSF	156659.1411	12906
722231.306	4294386.272	7953	04-Nov-13	11042013-002.SSF	156660.23	12907
722231.299	4294386.451	7924	04-Nov-13	11042013-002.SSF	156661.0298	12908
722231.305	4294386.881	7944	04-Nov-13	11042013-002.SSF	156662.1138	12909
722231.308	4294387.17	7559	04-Nov-13	11042013-002.SSF	156663.0498	12910
722231.315	4294387.397	7357	04-Nov-13	11042013-002.SSF	156664.1582	12911
722231.317	4294387.604	8263	04-Nov-13	11042013-002.SSF	156665.0269	12912
722231.316	4294387.817	8638	04-Nov-13	11042013-002.SSF	156666.1841	12913
722231.314	4294387.977	8759	04-Nov-13	11042013-002.SSF	156667.0752	12914
722231.288	4294388.175	8572	04-Nov-13	11042013-002.SSF	156668.2212	12915
722231.269	4294388.257	8406	04-Nov-13	11042013-002.SSF	156669.0601	12916
722231.215	4294388.093	8171	04-Nov-13	11042013-002.SSF	156670.1968	12917
722231.202	4294388.043	8421	04-Nov-13	11042013-002.SSF	156671.1392	12918
722231.185	4294387.949	7722	04-Nov-13	11042013-002.SSF	156672.2271	12919
722231.185	4294387.962	7906	04-Nov-13	11042013-002.SSF	156673.0952	12920
722231.187	4294388.012	8039	04-Nov-13	11042013-002.SSF	156674.1841	12921
722231.179	4294387.926	8955	04-Nov-13	11042013-002.SSF	156675.0732	12922
722231.149	4294387.743	8442	04-Nov-13	11042013-002.SSF	156676.2319	12923
722231.127	4294387.558	8243	04-Nov-13	11042013-002.SSF	156677.0122	12924
722231.106	4294387.316	8049	04-Nov-13	11042013-002.SSF	156678.1992	12925
722231.106	4294387.116	8375	04-Nov-13	11042013-002.SSF	156679.0742	12926
722231.118	4294386.887	8506	04-Nov-13	11042013-002.SSF	156680.2061	12927
722231.132	4294386.696	8437	04-Nov-13	11042013-002.SSF	156681.146	12928
722231.133	4294386.567	8428	04-Nov-13	11042013-002.SSF	156682.1948	12929
722231.145	4294386.387	8288	04-Nov-13	11042013-002.SSF	156683.1968	12930
722231.148	4294386.262	8149	04-Nov-13	11042013-002.SSF	156684.2378	12931
722231.175	4294386.089	8019	04-Nov-13	11042013-002.SSF	156685.1992	12932
722231.204	4294385.897	7765	04-Nov-13	11042013-002.SSF	156686.291	12933
722231.181	4294385.85	7923	04-Nov-13	11042013-002.SSF	156687.083	12934
722231.175	4294385.731	7644	04-Nov-13	11042013-002.SSF	156688.2178	12935
722231.192	4294385.636	7660	04-Nov-13	11042013-002.SSF	156689.1328	12936
722231.204	4294385.542	7496	04-Nov-13	11042013-002.SSF	156690.208	12937
722231.164	4294385.484	7411	04-Nov-13	11042013-002.SSF	156691.292	12938
722231.042	4294385.66	8069	04-Nov-13	11042013-002.SSF	156692.251	12939
722230.916	4294385.931	8311	04-Nov-13	11042013-002.SSF	156693.1792	12940
722230.741	4294386.232	8275	04-Nov-13	11042013-002.SSF	156694.1758	12941
722230.65	4294386.39	7759	04-Nov-13	11042013-002.SSF	156695.1519	12942
722230.598	4294386.49	7950	04-Nov-13	11042013-002.SSF	156696.2012	12943
722230.587	4294386.529	7981	04-Nov-13	11042013-002.SSF	156697.0889	12944
722230.57	4294386.637	8442	04-Nov-13	11042013-002.SSF	156698.2119	12945
722230.568	4294386.679	8258	04-Nov-13	11042013-002.SSF	156699.168	12946
722230.543	4294386.69	8464	04-Nov-13	11042013-002.SSF	156700.0732	12947
722230.507	4294386.705	8586	04-Nov-13	11042013-002.SSF	156701.0601	12948
722230.506	4294386.797	8540	04-Nov-13	11042013-002.SSF	156702.1831	12949
722230.509	4294386.875	8593	04-Nov-13	11042013-002.SSF	156703.1328	12950
722230.517	4294386.957	8658	04-Nov-13	11042013-002.SSF	156704.188	12951

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722230.53	4294387.028	8425	04-Nov-13	11042013-002.SSF	156705.1748	12952
722230.551	4294387.12	8999	04-Nov-13	11042013-002.SSF	156706.1909	12953
722230.646	4294387.265	8609	04-Nov-13	11042013-002.SSF	156707.1421	12954
722230.803	4294387.349	8188	04-Nov-13	11042013-002.SSF	156708.1382	12955
722230.899	4294387.378	8228	04-Nov-13	11042013-002.SSF	156709.2061	12956
722230.943	4294387.432	8003	04-Nov-13	11042013-002.SSF	156710.1851	12957
722230.972	4294387.493	8057	04-Nov-13	11042013-002.SSF	156711.0542	12958
722231.011	4294387.633	8357	04-Nov-13	11042013-002.SSF	156712.2261	12959
722231.036	4294387.853	8428	04-Nov-13	11042013-002.SSF	156713.1841	12960
722231.048	4294388.076	8746	04-Nov-13	11042013-002.SSF	156714.1421	12961
722231.05	4294388.283	8399	04-Nov-13	11042013-002.SSF	156715.0918	12962
722231.114	4294388.407	8040	04-Nov-13	11042013-002.SSF	156716.0889	12963
722231.118	4294388.469	7927	04-Nov-13	11042013-002.SSF	156717.0391	12964
722231.112	4294388.249	8434	04-Nov-13	11042013-002.SSF	156718.127	12965
722231.082	4294388.17	8569	04-Nov-13	11042013-002.SSF	156719.082	12966
722231.073	4294388.029	8712	04-Nov-13	11042013-002.SSF	156720.1768	12967
722231.092	4294387.884	8283	04-Nov-13	11042013-002.SSF	156721.021	12968
722231.095	4294387.845	7839	04-Nov-13	11042013-002.SSF	156722.2422	12969
722231.08	4294387.765	7769	04-Nov-13	11042013-002.SSF	156723.126	12970
722231.077	4294387.67	7535	04-Nov-13	11042013-002.SSF	156724.1348	12971
722231.045	4294387.495	7516	04-Nov-13	11042013-002.SSF	156725.1958	12972
722231.026	4294387.403	7512	04-Nov-13	11042013-002.SSF	156726.1851	12973
722231.029	4294387.415	7578	04-Nov-13	11042013-002.SSF	156727.042	12974
722231.02	4294387.481	8290	04-Nov-13	11042013-002.SSF	156728.2192	12975
722231.024	4294387.586	8443	04-Nov-13	11042013-002.SSF	156729.0498	12976
722230.984	4294387.57	8694	04-Nov-13	11042013-002.SSF	156730.0688	12977
722230.966	4294387.488	8978	04-Nov-13	11042013-002.SSF	156731.0171	12978
722230.935	4294387.463	8725	04-Nov-13	11042013-002.SSF	156732.064	12979
722230.939	4294387.506	8328	04-Nov-13	11042013-002.SSF	156733.0088	12980
722230.939	4294387.647	8239	04-Nov-13	11042013-002.SSF	156734.1899	12981
722230.947	4294387.763	8294	04-Nov-13	11042013-002.SSF	156735.0718	12982
722230.962	4294387.919	8775	04-Nov-13	11042013-002.SSF	156736.2192	12983
722230.963	4294388.033	8453	04-Nov-13	11042013-002.SSF	156737.085	12984
722230.935	4294388.127	9300	04-Nov-13	11042013-002.SSF	156738.1538	12985
722231.004	4294388.121	8418	04-Nov-13	11042013-002.SSF	156739.0161	12986
722231.086	4294388.236	8755	04-Nov-13	11042013-002.SSF	156740.1899	12987
722231.216	4294388.184	8442	04-Nov-13	11042013-002.SSF	156741.104	12988
722231.195	4294388.101	8221	04-Nov-13	11042013-002.SSF	156742.1582	12989
722231.212	4294388.039	8389	04-Nov-13	11042013-002.SSF	156743.0459	12990
722231.243	4294388.007	8071	04-Nov-13	11042013-002.SSF	156744.1118	12991
722231.27	4294387.883	7915	04-Nov-13	11042013-002.SSF	156745.1348	12992
722231.301	4294387.838	8494	04-Nov-13	11042013-002.SSF	156746.1411	12993
722231.324	4294387.821	8070	04-Nov-13	11042013-002.SSF	156747.062	12994
722231.334	4294387.855	7960	04-Nov-13	11042013-002.SSF	156748.168	12995
722231.332	4294387.8	8122	04-Nov-13	11042013-002.SSF	156749.0889	12996
722231.349	4294387.681	8131	04-Nov-13	11042013-002.SSF	156750.2139	12997
722231.355	4294387.56	8204	04-Nov-13	11042013-002.SSF	156751.105	12998

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722231.361	4294387.527	8282	04-Nov-13	11042013-002.SSF	156752.1792	12999
722231.352	4294387.65	8393	04-Nov-13	11042013-002.SSF	156753.0791	13000
722231.311	4294387.749	8058	04-Nov-13	11042013-002.SSF	156754.1909	13001
722231.316	4294387.768	8185	04-Nov-13	11042013-002.SSF	156755.0752	13002
722231.35	4294387.876	7919	04-Nov-13	11042013-002.SSF	156756.2222	13003
722231.37	4294387.946	8009	04-Nov-13	11042013-002.SSF	156757.0781	13004
722231.345	4294387.821	8450	04-Nov-13	11042013-002.SSF	156758.2158	13005
722231.326	4294387.844	8203	04-Nov-13	11042013-002.SSF	156759.0581	13006
722231.306	4294387.969	8484	04-Nov-13	11042013-002.SSF	156760.1792	13007
722231.266	4294388.054	8552	04-Nov-13	11042013-002.SSF	156761.0459	13008
722231.18	4294388.212	8186	04-Nov-13	11042013-002.SSF	156762.2349	13009
722231.18	4294388.25	8332	04-Nov-13	11042013-002.SSF	156763.0698	13010
722231.238	4294388.538	8107	04-Nov-13	11042013-002.SSF	156764.1748	13011
722231.493	4294388.3	7552	04-Nov-13	11042013-002.SSF	156765.062	13012
722231.581	4294387.685	7451	04-Nov-13	11042013-002.SSF	156766.2021	13013
722231.52	4294387.332	7611	04-Nov-13	11042013-002.SSF	156767.041	13014
722231.451	4294387.236	7543	04-Nov-13	11042013-002.SSF	156768.1748	13015
722231.375	4294387.272	7528	04-Nov-13	11042013-002.SSF	156768.9712	13016
722231.275	4294387.406	7984	04-Nov-13	11042013-002.SSF	156770.1938	13017
722231.214	4294387.672	8031	04-Nov-13	11042013-002.SSF	156770.981	13018
722231.116	4294388.177	8155	04-Nov-13	11042013-002.SSF	156772.2002	13019
722231.061	4294388.436	8479	04-Nov-13	11042013-002.SSF	156772.9722	13020
722230.974	4294388.614	8895	04-Nov-13	11042013-002.SSF	156774.2241	13021
722230.985	4294388.657	8468	04-Nov-13	11042013-002.SSF	156775.126	13022
722231.005	4294388.644	8783	04-Nov-13	11042013-002.SSF	156776.1982	13023
722230.977	4294388.617	8998	04-Nov-13	11042013-002.SSF	156777.0698	13024
722230.953	4294388.586	8399	04-Nov-13	11042013-002.SSF	156778.2422	13025
722230.916	4294388.588	8129	04-Nov-13	11042013-002.SSF	156779.0742	13026
722230.901	4294388.522	7857	04-Nov-13	11042013-002.SSF	156780.1729	13027
722230.862	4294388.487	7825	04-Nov-13	11042013-002.SSF	156781.0518	13028
722231.044	4294388.555	8114	04-Nov-13	11042013-002.SSF	156782.167	13029
722231.15	4294388.568	8644	04-Nov-13	11042013-002.SSF	156783.0371	13030
722231.198	4294388.557	8079	04-Nov-13	11042013-002.SSF	156784.187	13031
722231.195	4294388.447	8010	04-Nov-13	11042013-002.SSF	156785.0322	13032
722231.236	4294388.316	7880	04-Nov-13	11042013-002.SSF	156786.1382	13033
722231.263	4294388.231	8137	04-Nov-13	11042013-002.SSF	156786.9878	13034
722231.308	4294388.157	7697	04-Nov-13	11042013-002.SSF	156788.1392	13035
722231.357	4294388.102	7757	04-Nov-13	11042013-002.SSF	156788.999	13036
722231.383	4294388.054	7626	04-Nov-13	11042013-002.SSF	156790.0742	13037
722231.381	4294387.982	7852	04-Nov-13	11042013-002.SSF	156790.9932	13038
722231.194	4294387.973	8159	04-Nov-13	11042013-002.SSF	156792.103	13039
722231.055	4294388.085	7784	04-Nov-13	11042013-002.SSF	156792.9302	13040
722230.97	4294388.097	7731	04-Nov-13	11042013-002.SSF	156794.1831	13041
722230.941	4294388.076	8069	04-Nov-13	11042013-002.SSF	156795.0879	13042
722230.922	4294388.008	7636	04-Nov-13	11042013-002.SSF	156796.3018	13043
722230.908	4294387.933	7452	04-Nov-13	11042013-002.SSF	156797.1709	13044
722230.906	4294387.878	7612	04-Nov-13	11042013-002.SSF	156798.1948	13045

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722230.748	4294388.176	8090	04-Nov-13	11042013-002.SSF	156800.1802	13047
722230.682	4294387.923	8466	04-Nov-13	11042013-002.SSF	156801.0571	13048
722230.656	4294387.682	8729	04-Nov-13	11042013-002.SSF	156802.165	13049
722230.565	4294387.558	8677	04-Nov-13	11042013-002.SSF	156803.0439	13050
722230.637	4294387.72	8458	04-Nov-13	11042013-002.SSF	156804.1582	13051
722230.7	4294387.781	9055	04-Nov-13	11042013-002.SSF	156805.0771	13052
722230.802	4294387.735	8423	04-Nov-13	11042013-002.SSF	156806.1118	13053
722230.835	4294387.564	8608	04-Nov-13	11042013-002.SSF	156807.0771	13054
722230.813	4294387.339	8382	04-Nov-13	11042013-002.SSF	156808.186	13055
722230.674	4294387.268	8517	04-Nov-13	11042013-002.SSF	156809.0542	13056
722230.511	4294387.141	8286	04-Nov-13	11042013-002.SSF	156810.2031	13057
722230.412	4294387.056	8546	04-Nov-13	11042013-002.SSF	156811.124	13058
722230.229	4294387.044	8527	04-Nov-13	11042013-002.SSF	156812.1948	13059
722230.202	4294386.951	9259	04-Nov-13	11042013-002.SSF	156813.0068	13060
722230.174	4294386.798	9355	04-Nov-13	11042013-002.SSF	156814.25	13061
722230.171	4294386.735	9245	04-Nov-13	11042013-002.SSF	156815.1089	13062
722230.131	4294386.677	9280	04-Nov-13	11042013-002.SSF	156816.1758	13063
722230.087	4294386.694	9052	04-Nov-13	11042013-002.SSF	156817.0601	13064
722229.951	4294386.483	9292	04-Nov-13	11042013-002.SSF	156818.1992	13065
722230.009	4294386.333	8909	04-Nov-13	11042013-002.SSF	156819.0718	13066
722230.065	4294386.023	8386	04-Nov-13	11042013-002.SSF	156820.21	13067
722230.014	4294385.736	8212	04-Nov-13	11042013-002.SSF	156821.083	13068
722230.025	4294385.555	8032	04-Nov-13	11042013-002.SSF	156822.1021	13069
722230.022	4294385.441	8230	04-Nov-13	11042013-002.SSF	156823.0581	13070
722230.207	4294385.352	8019	04-Nov-13	11042013-002.SSF	156824.1982	13071
722230.333	4294385.298	8186	04-Nov-13	11042013-002.SSF	156825.0088	13072
722230.539	4294385.353	8519	04-Nov-13	11042013-002.SSF	156826.0991	13073
722230.696	4294385.294	8107	04-Nov-13	11042013-002.SSF	156827.0879	13074
722230.822	4294385.211	8145	04-Nov-13	11042013-002.SSF	156828.104	13075
722230.91	4294385.104	7874	04-Nov-13	11042013-002.SSF	156829.082	13076
722230.99	4294385.008	8081	04-Nov-13	11042013-002.SSF	156830.0708	13077
722231.048	4294384.961	8266	04-Nov-13	11042013-002.SSF	156831.1172	13078
722231.077	4294384.897	8534	04-Nov-13	11042013-002.SSF	156832.1382	13079
722231.221	4294384.885	8520	04-Nov-13	11042013-002.SSF	156833.1069	13080
722231.443	4294384.946	9067	04-Nov-13	11042013-002.SSF	156834.1748	13081
722231.441	4294385.043	8708	04-Nov-13	11042013-002.SSF	156835.0298	13082
722231.429	4294385.031	8363	04-Nov-13	11042013-002.SSF	156836.2222	13083
722231.542	4294384.884	8439	04-Nov-13	11042013-002.SSF	156837.0391	13084
722231.56	4294384.816	7627	04-Nov-13	11042013-002.SSF	156838.1001	13085
722231.49	4294384.832	7770	04-Nov-13	11042013-002.SSF	156839.1021	13086
722231.527	4294384.958	7775	04-Nov-13	11042013-002.SSF	156840.106	13087
722231.642	4294385.046	7539	04-Nov-13	11042013-002.SSF	156841.0479	13088
722231.712	4294385.076	7623	04-Nov-13	11042013-002.SSF	156842.041	13089
722231.72	4294385.105	7813	04-Nov-13	11042013-002.SSF	156843.0781	13090
722231.575	4294385.109	7447	04-Nov-13	11042013-002.SSF	156844.186	13091
722231.573	4294384.968	8366	04-Nov-13	11042013-002.SSF	156845.022	13092

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722230.88	4294384.73	7763	04-Nov-13	11042013-002.SSF	156847.0249	13094
722230.667	4294384.591	7772	04-Nov-13	11042013-002.SSF	156848.168	13095
722230.512	4294384.41	7417	04-Nov-13	11042013-002.SSF	156849.0859	13096
722230.481	4294384.303	7734	04-Nov-13	11042013-002.SSF	156850.0718	13097
722230.513	4294384.18	8145	04-Nov-13	11042013-002.SSF	156851.0518	13098
722230.576	4294384.047	7859	04-Nov-13	11042013-002.SSF	156852.0811	13099
722230.646	4294383.934	8193	04-Nov-13	11042013-002.SSF	156853.0112	13100
722230.726	4294383.805	8178	04-Nov-13	11042013-002.SSF	156854.0142	13101
722230.835	4294383.974	8298	04-Nov-13	11042013-002.SSF	156855.1362	13102
722230.862	4294384.101	8395	04-Nov-13	11042013-002.SSF	156856.1558	13103
722230.872	4294384.111	7887	04-Nov-13	11042013-002.SSF	156856.9888	13104
722230.744	4294384.439	7624	04-Nov-13	11042013-002.SSF	156858.1631	13105
722230.736	4294384.592	7573	04-Nov-13	11042013-002.SSF	156859.124	13106
722230.738	4294384.605	7905	04-Nov-13	11042013-002.SSF	156860.1992	13107
722230.738	4294384.624	7941	04-Nov-13	11042013-002.SSF	156861.0562	13108
722230.671	4294384.645	7909	04-Nov-13	11042013-002.SSF	156862.1011	13109
722230.585	4294384.55	8116	04-Nov-13	11042013-002.SSF	156863.1489	13110
722230.54	4294384.53	7918	04-Nov-13	11042013-002.SSF	156864.0791	13111
722230.576	4294384.527	8054	04-Nov-13	11042013-002.SSF	156865.0732	13112
722230.747	4294384.665	7980	04-Nov-13	11042013-002.SSF	156866.1821	13113
722230.829	4294384.719	8283	04-Nov-13	11042013-002.SSF	156867.1011	13114
722230.842	4294384.781	8102	04-Nov-13	11042013-002.SSF	156868.0571	13115
722230.911	4294384.692	7887	04-Nov-13	11042013-002.SSF	156869.0469	13116
722230.967	4294384.62	8014	04-Nov-13	11042013-002.SSF	156870.0781	13117
722230.99	4294384.579	8302	04-Nov-13	11042013-002.SSF	156871.043	13118
722230.96	4294384.59	8712	04-Nov-13	11042013-002.SSF	156872.082	13119
722230.955	4294384.605	8238	04-Nov-13	11042013-002.SSF	156873.0259	13120
722230.925	4294384.576	8819	04-Nov-13	11042013-002.SSF	156874.0708	13121
722230.9	4294384.567	8613	04-Nov-13	11042013-002.SSF	156875.0718	13122
722230.889	4294384.536	8625	04-Nov-13	11042013-002.SSF	156876.084	13123
722230.868	4294384.158	8309	04-Nov-13	11042013-002.SSF	156876.9819	13124
722230.975	4294383.893	8243	04-Nov-13	11042013-002.SSF	156878.1128	13125
722231.011	4294383.779	8139	04-Nov-13	11042013-002.SSF	156878.98	13126
722231.087	4294383.722	7938	04-Nov-13	11042013-002.SSF	156880.0732	13127
722231.122	4294383.721	8703	04-Nov-13	11042013-002.SSF	156880.9419	13128
722231.15	4294383.707	7947	04-Nov-13	11042013-002.SSF	156882.1328	13129
722231.134	4294383.719	8265	04-Nov-13	11042013-002.SSF	156882.9849	13130
722231.077	4294383.726	8062	04-Nov-13	11042013-002.SSF	156884.0518	13131
722231.014	4294383.718	7842	04-Nov-13	11042013-002.SSF	156885.0669	13132
722230.936	4294383.756	8446	04-Nov-13	11042013-002.SSF	156886.0469	13133
722230.908	4294383.708	8276	04-Nov-13	11042013-002.SSF	156886.9521	13134
722231.406	4294383.293	8202	04-Nov-13	11042013-002.SSF	156888.0542	13135
722231.758	4294382.764	8221	04-Nov-13	11042013-002.SSF	156888.957	13136
722231.901	4294382.37	8172	04-Nov-13	11042013-002.SSF	156890.0249	13137
722231.791	4294382.202	7814	04-Nov-13	11042013-002.SSF	156890.9268	13138
722231.822	4294382.086	7973	04-Nov-13	11042013-002.SSF	156892.0142	13139

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722232.006	4294381.863	7830	04-Nov-13	11042013-002.SSF	156892.9912	13140
722232.218	4294381.659	7779	04-Nov-13	11042013-002.SSF	156894.0278	13141
722232.257	4294381.472	8275	04-Nov-13	11042013-002.SSF	156894.8828	13142
722232.29	4294381.576	7857	04-Nov-13	11042013-002.SSF	156896.0488	13143
722232.313	4294381.707	7465	04-Nov-13	11042013-002.SSF	156896.9868	13144
722232.1	4294382.216	7371	04-Nov-13	11042013-002.SSF	156898.1641	13145
722231.765	4294382.697	7904	04-Nov-13	11042013-002.SSF	156898.999	13146
722231.585	4294382.501	8083	04-Nov-13	11042013-002.SSF	156900.0591	13147
722231.433	4294382.386	8244	04-Nov-13	11042013-002.SSF	156901.1528	13148
722231.272	4294382.366	8305	04-Nov-13	11042013-002.SSF	156902.0508	13149
722231.228	4294382.442	7926	04-Nov-13	11042013-002.SSF	156902.9971	13150
722231.012	4294382.483	8366	04-Nov-13	11042013-002.SSF	156904.0298	13151
722230.778	4294382.564	8516	04-Nov-13	11042013-002.SSF	156905.0361	13152
722230.561	4294382.643	8352	04-Nov-13	11042013-002.SSF	156906.0171	13153
722230.335	4294382.738	8396	04-Nov-13	11042013-002.SSF	156906.936	13154
722230.104	4294382.871	8412	04-Nov-13	11042013-002.SSF	156907.9751	13155
722230.11	4294383.002	8429	04-Nov-13	11042013-002.SSF	156908.9639	13156
722229.914	4294383.172	8236	04-Nov-13	11042013-002.SSF	156910.022	13157
722229.709	4294383.376	8323	04-Nov-13	11042013-002.SSF	156910.979	13158
722229.596	4294383.558	7996	04-Nov-13	11042013-002.SSF	156912.0132	13159
722229.681	4294383.556	7978	04-Nov-13	11042013-002.SSF	156913.0059	13160
722229.71	4294383.507	8485	04-Nov-13	11042013-002.SSF	156914.0449	13161
722229.645	4294383.609	8230	04-Nov-13	11042013-002.SSF	156915	13162
722229.655	4294383.699	8154	04-Nov-13	11042013-002.SSF	156916.123	13163
722229.643	4294383.783	7939	04-Nov-13	11042013-002.SSF	156916.9111	13164
722229.609	4294383.84	9131	04-Nov-13	11042013-002.SSF	156918.0908	13165
722229.587	4294383.865	8803	04-Nov-13	11042013-002.SSF	156918.9121	13166
722229.598	4294383.931	8214	04-Nov-13	11042013-002.SSF	156920.0698	13167
722229.598	4294383.936	8160	04-Nov-13	11042013-002.SSF	156920.9341	13168
722229.529	4294384.032	7740	04-Nov-13	11042013-002.SSF	156922.061	13169
722229.606	4294384.21	7931	04-Nov-13	11042013-002.SSF	156923.0278	13170
722229.649	4294384.336	8181	04-Nov-13	11042013-002.SSF	156924.0698	13171
722229.776	4294384.315	7512	04-Nov-13	11042013-002.SSF	156924.958	13172
722229.868	4294384.314	7923	04-Nov-13	11042013-002.SSF	156926.0361	13173
722229.927	4294384.291	7502	04-Nov-13	11042013-002.SSF	156926.9829	13174
722229.998	4294384.241	7953	04-Nov-13	11042013-002.SSF	156928.0078	13175
722229.998	4294384.188	8006	04-Nov-13	11042013-002.SSF	156929.0122	13176
722229.941	4294384.236	8253	04-Nov-13	11042013-002.SSF	156930.1392	13177
722229.947	4294384.234	7682	04-Nov-13	11042013-002.SSF	156932.2119	13179
722229.968	4294384.216	7921	04-Nov-13	11042013-002.SSF	156933.0298	13180
722229.981	4294384.127	8580	04-Nov-13	11042013-002.SSF	156934.1602	13181
722229.956	4294384.052	8801	04-Nov-13	11042013-002.SSF	156935.0059	13182
722229.85	4294383.99	8393	04-Nov-13	11042013-002.SSF	156936.0518	13183
722229.807	4294383.97	8148	04-Nov-13	11042013-002.SSF	156937.0581	13184
722229.805	4294384.028	8393	04-Nov-13	11042013-002.SSF	156938.0518	13185
722229.948	4294383.914	8298	04-Nov-13	11042013-002.SSF	156939.1992	13186
722229.993	4294383.973	8350	04-Nov-13	11042013-002.SSF	156940.0732	13187

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722230.02	4294384.065	8229	04-Nov-13	11042013-002.SSF	156940.916	13188
722230.074	4294384.157	7996	04-Nov-13	11042013-002.SSF	156942.0288	13189
722230.287	4294384.184	7708	04-Nov-13	11042013-002.SSF	156942.9922	13190
722230.324	4294384.23	8003	04-Nov-13	11042013-002.SSF	156944.0098	13191
722230.344	4294384.172	7711	04-Nov-13	11042013-002.SSF	156944.9468	13192
722230.411	4294384.143	7645	04-Nov-13	11042013-002.SSF	156946.0381	13193
722230.484	4294384.129	7128	04-Nov-13	11042013-002.SSF	156946.9419	13194
722230.477	4294384.163	7339	04-Nov-13	11042013-002.SSF	156948.001	13195
722230.472	4294384.149	7818	04-Nov-13	11042013-002.SSF	156948.854	13196
722230.423	4294384.133	7975	04-Nov-13	11042013-002.SSF	156950.1738	13197
722230.479	4294384.121	7748	04-Nov-13	11042013-002.SSF	156951.0781	13198
722230.516	4294384.055	8183	04-Nov-13	11042013-002.SSF	156952.0791	13199
722230.512	4294384.073	8083	04-Nov-13	11042013-002.SSF	156953.0571	13200
722230.524	4294383.97	8124	04-Nov-13	11042013-002.SSF	156954.1909	13201
722230.492	4294383.925	7682	04-Nov-13	11042013-002.SSF	156955.019	13202
722230.498	4294383.822	7944	04-Nov-13	11042013-002.SSF	156956.0898	13203
722230.503	4294383.739	8008	04-Nov-13	11042013-002.SSF	156957.106	13204
722230.53	4294383.627	8119	04-Nov-13	11042013-002.SSF	156958.1201	13205
722230.556	4294383.588	8535	04-Nov-13	11042013-002.SSF	156958.8911	13206
722230.597	4294383.536	8220	04-Nov-13	11042013-002.SSF	156960.0332	13207
722230.594	4294383.49	8396	04-Nov-13	11042013-002.SSF	156961.0078	13208
722230.622	4294383.517	8653	04-Nov-13	11042013-002.SSF	156962.1782	13209
722230.659	4294383.526	8512	04-Nov-13	11042013-002.SSF	156962.9492	13210
722230.744	4294383.505	9363	04-Nov-13	11042013-002.SSF	156964.0581	13211
722230.866	4294383.505	8626	04-Nov-13	11042013-002.SSF	156965.0039	13212
722230.783	4294383.573	8392	04-Nov-13	11042013-002.SSF	156966.0562	13213
722230.854	4294383.743	8688	04-Nov-13	11042013-002.SSF	156966.876	13214
722230.957	4294383.7	8419	04-Nov-13	11042013-002.SSF	156968.0439	13215
722230.979	4294383.686	8636	04-Nov-13	11042013-002.SSF	156968.939	13216
722231.012	4294383.678	8577	04-Nov-13	11042013-002.SSF	156970.0698	13217
722230.961	4294383.689	8582	04-Nov-13	11042013-002.SSF	156970.8931	13218
722230.963	4294383.791	8990	04-Nov-13	11042013-002.SSF	156971.9912	13219
722231.014	4294383.883	8514	04-Nov-13	11042013-002.SSF	156972.9321	13220
722231.031	4294383.989	8164	04-Nov-13	11042013-002.SSF	156974.0688	13221
722230.974	4294383.997	7832	04-Nov-13	11042013-002.SSF	156974.9238	13222
722231.056	4294383.966	8538	04-Nov-13	11042013-002.SSF	156976.125	13223
722231.079	4294383.926	8178	04-Nov-13	11042013-002.SSF	156976.9678	13224
722231.024	4294383.857	9047	04-Nov-13	11042013-002.SSF	156978.1431	13225
722230.996	4294383.795	8741	04-Nov-13	11042013-002.SSF	156979.061	13226
722230.971	4294383.759	9139	04-Nov-13	11042013-002.SSF	156980.1338	13227
722230.86	4294383.724	8913	04-Nov-13	11042013-002.SSF	156980.9492	13228
722230.734	4294383.646	8756	04-Nov-13	11042013-002.SSF	156982.0781	13229
722230.719	4294383.593	8855	04-Nov-13	11042013-002.SSF	156982.9512	13230
722230.592	4294383.568	9038	04-Nov-13	11042013-002.SSF	156984.1362	13231
722230.657	4294383.615	9096	04-Nov-13	11042013-002.SSF	156984.9531	13232
722230.679	4294383.736	8927	04-Nov-13	11042013-002.SSF	156986.0972	13233
722230.652	4294383.714	8936	04-Nov-13	11042013-002.SSF	156986.9092	13234

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722230.752	4294383.681	8304	04-Nov-13	11042013-002.SSF	156988.1001	13235
722230.865	4294383.676	7843	04-Nov-13	11042013-002.SSF	156988.9121	13236
722230.833	4294383.547	7509	04-Nov-13	11042013-002.SSF	156990.0669	13237
722230.848	4294383.461	7809	04-Nov-13	11042013-002.SSF	156991.0122	13238
722230.815	4294383.356	7842	04-Nov-13	11042013-002.SSF	156992.0762	13239
722230.798	4294383.281	7051	04-Nov-13	11042013-002.SSF	156992.999	13240
722230.758	4294383.215	7349	04-Nov-13	11042013-002.SSF	156994.2139	13241
722230.698	4294383.151	7681	04-Nov-13	11042013-002.SSF	156995.0732	13242
722230.663	4294383.094	7823	04-Nov-13	11042013-002.SSF	156995.9888	13243
722230.66	4294383.06	8428	04-Nov-13	11042013-002.SSF	156996.9888	13244
722230.65	4294383.01	8033	04-Nov-13	11042013-002.SSF	156998.1719	13245
722230.671	4294382.991	8066	04-Nov-13	11042013-002.SSF	156998.9399	13246
722230.64	4294382.947	8287	04-Nov-13	11042013-002.SSF	157000.0649	13247
722230.628	4294382.921	8681	04-Nov-13	11042013-002.SSF	157000.9438	13248
722230.634	4294382.92	8265	04-Nov-13	11042013-002.SSF	157002.0469	13249
722230.656	4294382.927	8174	04-Nov-13	11042013-002.SSF	157002.9072	13250
722230.669	4294382.946	7740	04-Nov-13	11042013-002.SSF	157003.9971	13251
722230.62	4294382.941	7661	04-Nov-13	11042013-002.SSF	157005.0752	13252
722230.598	4294382.932	7879	04-Nov-13	11042013-002.SSF	157006.1201	13253
722230.626	4294382.915	8212	04-Nov-13	11042013-002.SSF	157006.9502	13254
722230.576	4294382.864	8257	04-Nov-13	11042013-002.SSF	157008.1558	13255
722230.546	4294382.835	8477	04-Nov-13	11042013-002.SSF	157009.063	13256
722230.469	4294382.816	8360	04-Nov-13	11042013-002.SSF	157010.0781	13257
722230.42	4294382.79	8220	04-Nov-13	11042013-002.SSF	157010.9468	13258
722230.255	4294382.724	8344	04-Nov-13	11042013-002.SSF	157012.061	13259
722230.193	4294382.655	8436	04-Nov-13	11042013-002.SSF	157012.9521	13260
722230.088	4294382.539	8082	04-Nov-13	11042013-002.SSF	157014.123	13261
722230.046	4294382.59	8416	04-Nov-13	11042013-002.SSF	157014.9712	13262
722229.931	4294382.58	7726	04-Nov-13	11042013-002.SSF	157016.0508	13263
722229.834	4294382.568	7811	04-Nov-13	11042013-002.SSF	157017.0498	13264
722229.709	4294382.518	7851	04-Nov-13	11042013-002.SSF	157018.0068	13265
722229.669	4294382.475	8174	04-Nov-13	11042013-002.SSF	157018.9121	13266
722229.886	4294382.769	8437	04-Nov-13	11042013-002.SSF	157019.9648	13267
722229.871	4294382.928	7723	04-Nov-13	11042013-002.SSF	157020.9248	13268
722229.942	4294383.33	7959	04-Nov-13	11042013-002.SSF	157022.04	13269
722229.99	4294383.213	7942	04-Nov-13	11042013-002.SSF	157022.9219	13270
722229.579	4294382.852	7820	04-Nov-13	11042013-002.SSF	157024.0908	13271
722229.437	4294382.475	8006	04-Nov-13	11042013-002.SSF	157024.8892	13272
722229.328	4294382.193	7743	04-Nov-13	11042013-002.SSF	157026.064	13273
722229.467	4294381.996	8353	04-Nov-13	11042013-002.SSF	157026.9839	13274
722229.691	4294381.847	8006	04-Nov-13	11042013-002.SSF	157028.063	13275
722229.858	4294381.784	7946	04-Nov-13	11042013-002.SSF	157028.9292	13276
722230.008	4294381.704	7312	04-Nov-13	11042013-002.SSF	157030.0698	13277
722230.049	4294381.659	7848	04-Nov-13	11042013-002.SSF	157031.0059	13278
722230.244	4294381.692	7767	04-Nov-13	11042013-002.SSF	157032.1279	13279
722230.404	4294381.716	7668	04-Nov-13	11042013-002.SSF	157032.9541	13280
722230.146	4294381.472	7606	04-Nov-13	11042013-002.SSF	157034.1221	13281

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722229.93	4294381.335	7886	04-Nov-13	11042013-002.SSF	157034.958	13282
722230.075	4294381.304	7848	04-Nov-13	11042013-002.SSF	157036.0571	13283
722230.148	4294381.283	8134	04-Nov-13	11042013-002.SSF	157036.9058	13284
722230.159	4294381.222	7778	04-Nov-13	11042013-002.SSF	157038.0752	13285
722230.147	4294381.095	7855	04-Nov-13	11042013-002.SSF	157038.9121	13286
722230.121	4294380.999	7673	04-Nov-13	11042013-002.SSF	157040.0752	13287
722230.12	4294380.933	7661	04-Nov-13	11042013-002.SSF	157041.0112	13288
722230.041	4294380.821	8217	04-Nov-13	11042013-002.SSF	157042.1211	13289
722230.009	4294380.749	7929	04-Nov-13	11042013-002.SSF	157042.958	13290
722229.865	4294380.622	7918	04-Nov-13	11042013-002.SSF	157044.084	13291
722229.954	4294380.539	7746	04-Nov-13	11042013-002.SSF	157044.938	13292
722229.932	4294380.603	8407	04-Nov-13	11042013-002.SSF	157045.9951	13293
722229.775	4294380.701	8381	04-Nov-13	11042013-002.SSF	157046.9849	13294
722229.78	4294380.849	8224	04-Nov-13	11042013-002.SSF	157048.0552	13295
722229.61	4294381.179	7874	04-Nov-13	11042013-002.SSF	157048.9951	13296
722229.251	4294381.207	8591	04-Nov-13	11042013-002.SSF	157050.0039	13297
722228.903	4294381.25	8207	04-Nov-13	11042013-002.SSF	157050.8999	13298
722228.714	4294381.158	8276	04-Nov-13	11042013-002.SSF	157052.0278	13299
722228.775	4294380.98	8045	04-Nov-13	11042013-002.SSF	157052.896	13300
722228.911	4294380.935	8711	04-Nov-13	11042013-002.SSF	157054.084	13301
722228.665	4294381.169	8342	04-Nov-13	11042013-002.SSF	157054.874	13302
722227.625	4294381.594	8457	04-Nov-13	11042013-002.SSF	157055.9932	13303
722227.112	4294381.955	8147	04-Nov-13	11042013-002.SSF	157056.939	13304
722226.141	4294382.431	7980	04-Nov-13	11042013-002.SSF	157058.0151	13305
722225.232	4294382.841	8343	04-Nov-13	11042013-002.SSF	157058.939	13306
722223.934	4294383.117	8623	04-Nov-13	11042013-002.SSF	157060.0039	13307
722222.793	4294382.979	7678	04-Nov-13	11042013-002.SSF	157060.8931	13308
722221.804	4294382.943	7746	04-Nov-13	11042013-002.SSF	157061.9741	13309
722221	4294383.32	7387	04-Nov-13	11042013-002.SSF	157062.9058	13310
722220.17	4294383.645	7852	04-Nov-13	11042013-002.SSF	157063.9229	13311
722219.11	4294383.945	8294	04-Nov-13	11042013-002.SSF	157064.8828	13312
722217.969	4294383.833	8490	04-Nov-13	11042013-002.SSF	157066.0669	13313
722217.409	4294383.69	7926	04-Nov-13	11042013-002.SSF	157066.8608	13314
722215.509	4294383.186	8361	04-Nov-13	11042013-002.SSF	157068.9229	13315
722214.25	4294382.383	7830	04-Nov-13	11042013-002.SSF	157070.0581	13316
722213.298	4294381.636	7525	04-Nov-13	11042013-002.SSF	157071.002	13317
722212.183	4294381.255	7900	04-Nov-13	11042013-002.SSF	157072.187	13318
722211.472	4294381.271	8396	04-Nov-13	11042013-002.SSF	157072.9619	13319
722210.159	4294381.458	8278	04-Nov-13	11042013-002.SSF	157074.1021	13320
722209.396	4294381.698	8684	04-Nov-13	11042013-002.SSF	157075.0142	13321
722208.592	4294382.154	8867	04-Nov-13	11042013-002.SSF	157076.0688	13322
722207.614	4294382.442	8467	04-Nov-13	11042013-002.SSF	157076.9912	13323
722206.262	4294383.224	8483	04-Nov-13	11042013-002.SSF	157078.1201	13324
722205.574	4294383.773	8319	04-Nov-13	11042013-002.SSF	157079.002	13325
722205.376	4294383.951	8234	04-Nov-13	11042013-002.SSF	157080.1392	13326
722205.301	4294384.072	8284	04-Nov-13	11042013-002.SSF	157080.9409	13327
722205.236	4294384.188	8732	04-Nov-13	11042013-002.SSF	157082.0981	13328

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722205.191	4294384.22	8909	04-Nov-13	11042013-002.SSF	157082.9761	13329
722205.255	4294384.294	8911	04-Nov-13	11042013-002.SSF	157084.1992	13330
722205.3	4294384.283	9160	04-Nov-13	11042013-002.SSF	157084.9971	13331
722205.27	4294384.122	8535	04-Nov-13	11042013-002.SSF	157085.9941	13332
722205.335	4294384.248	8768	04-Nov-13	11042013-002.SSF	157087.1108	13333
722205.163	4294384.274	8652	04-Nov-13	11042013-002.SSF	157088.0659	13334
722205.059	4294384.323	9029	04-Nov-13	11042013-002.SSF	157088.9829	13335
722204.965	4294384.353	8439	04-Nov-13	11042013-002.SSF	157090.002	13336
722204.918	4294384.425	8804	04-Nov-13	11042013-002.SSF	157090.915	13337
722204.907	4294384.551	8567	04-Nov-13	11042013-002.SSF	157091.9648	13338
722204.842	4294384.714	8779	04-Nov-13	11042013-002.SSF	157092.917	13339
722204.753	4294384.871	9018	04-Nov-13	11042013-002.SSF	157093.9141	13340
722204.674	4294385.013	8890	04-Nov-13	11042013-002.SSF	157094.8638	13341
722204.713	4294385.169	9365	04-Nov-13	11042013-002.SSF	157096.0039	13342
722204.653	4294385.26	9273	04-Nov-13	11042013-002.SSF	157097.0112	13343
722204.876	4294384.995	9281	04-Nov-13	11042013-002.SSF	157098.0049	13344
722204.925	4294384.962	8603	04-Nov-13	11042013-002.SSF	157098.9121	13345
722205.074	4294384.862	8446	04-Nov-13	11042013-002.SSF	157100.02	13346
722205.185	4294384.772	9153	04-Nov-13	11042013-002.SSF	157100.8208	13347
722205.321	4294384.657	9026	04-Nov-13	11042013-002.SSF	157101.9312	13348
722205.452	4294384.62	8745	04-Nov-13	11042013-002.SSF	157102.8818	13349
722205.577	4294384.604	8564	04-Nov-13	11042013-002.SSF	157103.9922	13350
722205.578	4294384.678	9182	04-Nov-13	11042013-002.SSF	157104.8271	13351
722205.562	4294384.737	8795	04-Nov-13	11042013-002.SSF	157106.0088	13352
722205.573	4294384.76	8809	04-Nov-13	11042013-002.SSF	157106.8481	13353
722205.586	4294384.777	9155	04-Nov-13	11042013-002.SSF	157108.0112	13354
722205.61	4294384.777	8869	04-Nov-13	11042013-002.SSF	157108.8428	13355
722205.597	4294384.829	8806	04-Nov-13	11042013-002.SSF	157110.126	13356
722205.587	4294384.859	9311	04-Nov-13	11042013-002.SSF	157110.9458	13357
722205.581	4294384.789	9047	04-Nov-13	11042013-002.SSF	157111.9468	13358
722205.656	4294384.454	8636	04-Nov-13	11042013-002.SSF	157112.9502	13359
722206.038	4294383.944	8585	04-Nov-13	11042013-002.SSF	157113.9502	13360
722206.191	4294383.439	8857	04-Nov-13	11042013-002.SSF	157114.8721	13361
722206.944	4294382.579	8709	04-Nov-13	11042013-002.SSF	157115.9771	13362
722207.033	4294381.812	8814	04-Nov-13	11042013-002.SSF	157116.981	13363
722207.12	4294380.686	9225	04-Nov-13	11042013-002.SSF	157118.1748	13364
722207.337	4294380.076	8541	04-Nov-13	11042013-002.SSF	157118.9658	13365
722207.205	4294379.415	8734	04-Nov-13	11042013-002.SSF	157120.0039	13366
722207.39	4294378.823	8490	04-Nov-13	11042013-002.SSF	157120.9141	13367
722207.482	4294378.542	8886	04-Nov-13	11042013-002.SSF	157121.9321	13368
722207.434	4294378.056	8561	04-Nov-13	11042013-002.SSF	157122.9058	13369
722207.374	4294377.436	8700	04-Nov-13	11042013-002.SSF	157123.979	13370
722207.151	4294376.983	8344	04-Nov-13	11042013-002.SSF	157124.9111	13371
722207.345	4294376.469	7813	04-Nov-13	11042013-002.SSF	157125.9888	13372
722207.048	4294376.334	7860	04-Nov-13	11042013-002.SSF	157126.8511	13373
722207.355	4294375.597	7631	04-Nov-13	11042013-002.SSF	157128.0972	13374
722207.408	4294374.853	7292	04-Nov-13	11042013-002.SSF	157128.9019	13375

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722207.646	4294374.395	7424	04-Nov-13	11042013-002.SSF	157129.959	13376
722207.457	4294374.251	8091	04-Nov-13	11042013-002.SSF	157130.8711	13377
722207.506	4294373.829	8324	04-Nov-13	11042013-002.SSF	157131.916	13378
722207.539	4294373.577	7734	04-Nov-13	11042013-002.SSF	157132.8721	13379
722207.61	4294373.694	8033	04-Nov-13	11042013-002.SSF	157133.9141	13380
722207.784	4294373.946	7593	04-Nov-13	11042013-002.SSF	157134.8662	13381
722208.525	4294374.121	7743	04-Nov-13	11042013-002.SSF	157136.2051	13382
722209.178	4294373.897	7813	04-Nov-13	11042013-002.SSF	157136.999	13383
722209.768	4294373.956	7830	04-Nov-13	11042013-002.SSF	157138.0039	13384
722210.445	4294373.51	7344	04-Nov-13	11042013-002.SSF	157138.998	13385
722210.759	4294373.288	7206	04-Nov-13	11042013-002.SSF	157140.1221	13386
722210.83	4294373.043	7863	04-Nov-13	11042013-002.SSF	157140.897	13387
722211.228	4294372.552	7873	04-Nov-13	11042013-002.SSF	157141.9321	13388
722211.452	4294372.102	7886	04-Nov-13	11042013-002.SSF	157142.8218	13389
722211.89	4294371.318	9401	04-Nov-13	11042013-002.SSF	157143.9839	13390
722212.052	4294370.878	8828	04-Nov-13	11042013-002.SSF	157144.812	13391
722212.025	4294370.707	8543	04-Nov-13	11042013-002.SSF	157146.0532	13392
722211.901	4294370.908	8915	04-Nov-13	11042013-002.SSF	157146.894	13393
722211.987	4294371.175	8757	04-Nov-13	11042013-002.SSF	157147.938	13394
722211.728	4294371.447	8226	04-Nov-13	11042013-002.SSF	157148.8901	13395
722211.778	4294371.771	8099	04-Nov-13	11042013-002.SSF	157149.959	13396
722211.773	4294372.266	8246	04-Nov-13	11042013-002.SSF	157150.8091	13397
722212.3	4294372.991	8283	04-Nov-13	11042013-002.SSF	157151.9009	13398
722212.72	4294373.509	8469	04-Nov-13	11042013-002.SSF	157152.9019	13399
722213.211	4294373.759	8259	04-Nov-13	11042013-002.SSF	157153.9819	13400
722213.416	4294373.776	8065	04-Nov-13	11042013-002.SSF	157154.8188	13401
722213.507	4294373.828	7319	04-Nov-13	11042013-002.SSF	157155.9448	13402
722213.561	4294373.694	8069	04-Nov-13	11042013-002.SSF	157156.854	13403
722213.611	4294373.524	8330	04-Nov-13	11042013-002.SSF	157157.9961	13404
722213.602	4294373.248	8495	04-Nov-13	11042013-002.SSF	157158.8511	13405
722213.637	4294372.827	8461	04-Nov-13	11042013-002.SSF	157160.064	13406
722213.584	4294372.244	8629	04-Nov-13	11042013-002.SSF	157160.9019	13407
722213.516	4294371.692	8251	04-Nov-13	11042013-002.SSF	157162.001	13408
722213.504	4294371.547	7904	04-Nov-13	11042013-002.SSF	157162.9438	13409
722213.542	4294371.455	8316	04-Nov-13	11042013-002.SSF	157164.002	13410
722213.509	4294371.531	8262	04-Nov-13	11042013-002.SSF	157164.9482	13411
722213.525	4294371.54	7947	04-Nov-13	11042013-002.SSF	157166.0171	13412
722213.554	4294371.568	8415	04-Nov-13	11042013-002.SSF	157166.9341	13413
722213.581	4294371.634	8131	04-Nov-13	11042013-002.SSF	157167.9839	13414
722213.591	4294371.689	8414	04-Nov-13	11042013-002.SSF	157168.9248	13415
722213.586	4294371.72	8407	04-Nov-13	11042013-002.SSF	157169.9761	13416
722213.577	4294371.759	8194	04-Nov-13	11042013-002.SSF	157170.9038	13417
722213.601	4294371.866	8404	04-Nov-13	11042013-002.SSF	157172.0391	13418
722213.575	4294371.949	8260	04-Nov-13	11042013-002.SSF	157172.8608	13419
722213.54	4294372.02	8328	04-Nov-13	11042013-002.SSF	157173.9282	13420
722213.528	4294372.062	7700	04-Nov-13	11042013-002.SSF	157174.8711	13421
722213.529	4294372.115	8006	04-Nov-13	11042013-002.SSF	157176	13422

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722213.49	4294372.217	8763	04-Nov-13	11042013-002.SSF	157176.9639	13423
722213.525	4294372.241	8559	04-Nov-13	11042013-002.SSF	157178.084	13424
722213.55	4294372.247	8999	04-Nov-13	11042013-002.SSF	157178.9648	13425
722213.542	4294372.266	9052	04-Nov-13	11042013-002.SSF	157180.061	13426
722213.543	4294372.277	8842	04-Nov-13	11042013-002.SSF	157180.9521	13427
722213.575	4294372.261	7816	04-Nov-13	11042013-002.SSF	157182.0742	13428
722213.596	4294372.278	7869	04-Nov-13	11042013-002.SSF	157182.897	13429
722213.604	4294372.303	7441	04-Nov-13	11042013-002.SSF	157183.9658	13430
722213.649	4294372.323	7753	04-Nov-13	11042013-002.SSF	157186.021	13431
722213.647	4294372.368	8193	04-Nov-13	11042013-002.SSF	157186.873	13432
722213.715	4294372.355	8411	04-Nov-13	11042013-002.SSF	157187.936	13433
722213.765	4294372.392	8526	04-Nov-13	11042013-002.SSF	157188.9492	13434
722213.817	4294372.556	8937	04-Nov-13	11042013-002.SSF	157190.9189	13435
722213.778	4294372.543	8567	04-Nov-13	11042013-002.SSF	157191.98	13436
722213.728	4294372.541	8801	04-Nov-13	11042013-002.SSF	157193.1079	13437
722213.721	4294372.486	8318	04-Nov-13	11042013-002.SSF	157193.9741	13438
722213.673	4294372.489	8436	04-Nov-13	11042013-002.SSF	157194.9131	13439
722213.677	4294372.472	8760	04-Nov-13	11042013-002.SSF	157196.8921	13440
722213.661	4294372.46	8820	04-Nov-13	11042013-002.SSF	157198.0649	13441
722213.675	4294372.455	8073	04-Nov-13	11042013-002.SSF	157198.897	13442
722213.687	4294372.429	7796	04-Nov-13	11042013-002.SSF	157199.979	13443
722213.698	4294372.416	8983	04-Nov-13	11042013-002.SSF	157200.8418	13444
722213.684	4294372.423	8458	04-Nov-13	11042013-002.SSF	157201.9541	13445
722213.654	4294372.422	8395	04-Nov-13	11042013-002.SSF	157202.832	13446
722213.714	4294372.396	8644	04-Nov-13	11042013-002.SSF	157203.915	13447
722213.811	4294372.291	8237	04-Nov-13	11042013-002.SSF	157204.9072	13448
722213.916	4294372.179	8113	04-Nov-13	11042013-002.SSF	157205.939	13449
722213.962	4294372.132	7901	04-Nov-13	11042013-002.SSF	157206.936	13450
722213.941	4294372.142	7789	04-Nov-13	11042013-002.SSF	157207.958	13451
722213.89	4294372.166	7779	04-Nov-13	11042013-002.SSF	157208.8608	13452
722213.885	4294372.168	8283	04-Nov-13	11042013-002.SSF	157209.9502	13453
722213.827	4294372.225	7951	04-Nov-13	11042013-002.SSF	157210.9229	13454
722213.796	4294372.225	7773	04-Nov-13	11042013-002.SSF	157211.9209	13455
722213.86	4294372.336	7612	04-Nov-13	11042013-002.SSF	157212.897	13456
722213.911	4294372.425	7567	04-Nov-13	11042013-002.SSF	157213.894	13457
722213.877	4294372.273	8148	04-Nov-13	11042013-002.SSF	157216.897	13458
722213.751	4294372.207	8903	04-Nov-13	11042013-002.SSF	157217.9712	13459
722213.666	4294372.243	8615	04-Nov-13	11042013-002.SSF	157218.8428	13460
722213.579	4294372.261	8251	04-Nov-13	11042013-002.SSF	157220.0029	13461
722213.629	4294372.237	8144	04-Nov-13	11042013-002.SSF	157220.8242	13462
722213.618	4294372.238	7903	04-Nov-13	11042013-002.SSF	157221.9829	13463
722213.645	4294372.234	8207	04-Nov-13	11042013-002.SSF	157222.8281	13464
722213.756	4294372.21	8180	04-Nov-13	11042013-002.SSF	157224	13465
722213.709	4294372.252	8411	04-Nov-13	11042013-002.SSF	157224.8252	13466
722213.653	4294372.29	8144	04-Nov-13	11042013-002.SSF	157225.9302	13467
722213.604	4294372.362	8083	04-Nov-13	11042013-002.SSF	157226.8262	13468
722213.622	4294372.41	7479	04-Nov-13	11042013-002.SSF	157228.1162	13469

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722213.649	4294372.435	7867	04-Nov-13	11042013-002.SSF	157228.9219	13470
722213.659	4294372.481	7755	04-Nov-13	11042013-002.SSF	157230.1431	13471
722213.666	4294372.501	7759	04-Nov-13	11042013-002.SSF	157230.9399	13472
722213.643	4294372.53	7912	04-Nov-13	11042013-002.SSF	157231.9512	13473
722213.683	4294372.512	7930	04-Nov-13	11042013-002.SSF	157232.936	13474
722213.666	4294372.525	8091	04-Nov-13	11042013-002.SSF	157234.001	13475
722213.621	4294372.571	8541	04-Nov-13	11042013-002.SSF	157234.9482	13476
722213.541	4294372.62	8051	04-Nov-13	11042013-002.SSF	157235.8379	13477
722213.455	4294372.65	8106	04-Nov-13	11042013-002.SSF	157236.731	13478
722213.384	4294372.68	8205	04-Nov-13	11042013-002.SSF	157237.8188	13479
722213.321	4294372.698	8245	04-Nov-13	11042013-002.SSF	157238.8711	13480
722213.263	4294372.721	7398	04-Nov-13	11042013-002.SSF	157239.8691	13481
722213.252	4294372.713	7019	04-Nov-13	11042013-002.SSF	157240.8691	13482
722213.214	4294372.711	7105	04-Nov-13	11042013-002.SSF	157242.0171	13483
722213.176	4294372.726	6877	04-Nov-13	11042013-002.SSF	157243.0171	13484
722213.189	4294372.704	7355	04-Nov-13	11042013-002.SSF	157244.0161	13485
722213.189	4294372.717	7722	04-Nov-13	11042013-002.SSF	157244.9858	13486
722213.186	4294372.711	7674	04-Nov-13	11042013-002.SSF	157246.0332	13487
722213.062	4294372.786	7699	04-Nov-13	11042013-002.SSF	157246.8701	13488
722213.001	4294372.872	7998	04-Nov-13	11042013-002.SSF	157248.0342	13489
722213.052	4294372.883	7671	04-Nov-13	11042013-002.SSF	157248.939	13490
722213.149	4294372.727	7510	04-Nov-13	11042013-002.SSF	157249.9521	13491
722213.315	4294372.489	7727	04-Nov-13	11042013-002.SSF	157250.8052	13492
722213.513	4294372.201	8396	04-Nov-13	11042013-002.SSF	157251.9731	13493
722213.604	4294372.044	8488	04-Nov-13	11042013-002.SSF	157252.8999	13494
722213.701	4294371.885	8037	04-Nov-13	11042013-002.SSF	157253.9971	13495
722213.727	4294371.794	8045	04-Nov-13	11042013-002.SSF	157254.9512	13496
722213.753	4294371.729	8448	04-Nov-13	11042013-002.SSF	157256.0308	13497
722213.78	4294371.691	8022	04-Nov-13	11042013-002.SSF	157256.9839	13498
722213.767	4294371.699	7940	04-Nov-13	11042013-002.SSF	157258.043	13499
722213.775	4294371.687	7781	04-Nov-13	11042013-002.SSF	157258.9229	13500
722213.789	4294371.678	8261	04-Nov-13	11042013-002.SSF	157259.9761	13501
722213.751	4294371.685	8434	04-Nov-13	11042013-002.SSF	157260.7988	13502
722213.716	4294371.684	8472	04-Nov-13	11042013-002.SSF	157262.0039	13503
722213.721	4294371.689	8350	04-Nov-13	11042013-002.SSF	157262.875	13504
722213.7	4294371.734	8147	04-Nov-13	11042013-002.SSF	157264.063	13505
722213.697	4294371.747	7785	04-Nov-13	11042013-002.SSF	157264.7788	13506
722213.686	4294371.762	7431	04-Nov-13	11042013-002.SSF	157265.9409	13507
722213.664	4294371.81	7938	04-Nov-13	11042013-002.SSF	157266.8398	13508
722213.646	4294371.852	8162	04-Nov-13	11042013-002.SSF	157267.9331	13509
722213.642	4294371.821	8244	04-Nov-13	11042013-002.SSF	157268.916	13510
722213.647	4294371.801	8469	04-Nov-13	11042013-002.SSF	157269.9229	13511
722213.656	4294371.772	8439	04-Nov-13	11042013-002.SSF	157270.896	13512
722213.672	4294371.736	8572	04-Nov-13	11042013-002.SSF	157271.9941	13513
722213.649	4294371.742	8744	04-Nov-13	11042013-002.SSF	157272.918	13514
722213.631	4294371.747	8863	04-Nov-13	11042013-002.SSF	157273.894	13515
722213.602	4294371.791	8495	04-Nov-13	11042013-002.SSF	157274.8521	13516

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722213.61	4294371.791	8416	04-Nov-13	11042013-002.SSF	157275.9058	13517
722213.589	4294371.797	8941	04-Nov-13	11042013-002.SSF	157276.832	13518
722213.551	4294371.854	8322	04-Nov-13	11042013-002.SSF	157277.897	13519
722213.581	4294371.841	8543	04-Nov-13	11042013-002.SSF	157278.833	13520
722213.556	4294371.863	8210	04-Nov-13	11042013-002.SSF	157279.895	13521
722213.518	4294371.892	7933	04-Nov-13	11042013-002.SSF	157280.9058	13522
722213.47	4294371.922	7920	04-Nov-13	11042013-002.SSF	157281.9668	13523
722213.459	4294371.902	7822	04-Nov-13	11042013-002.SSF	157282.916	13524
722213.376	4294371.918	8022	04-Nov-13	11042013-002.SSF	157283.9702	13525
722213.336	4294371.914	8352	04-Nov-13	11042013-002.SSF	157284.8711	13526
722213.281	4294371.914	8478	04-Nov-13	11042013-002.SSF	157285.937	13527
722213.262	4294371.952	7851	04-Nov-13	11042013-002.SSF	157286.8359	13528
722213.269	4294372.003	7911	04-Nov-13	11042013-002.SSF	157287.9409	13529
722213.271	4294372.015	8177	04-Nov-13	11042013-002.SSF	157288.9072	13530
722213.253	4294372.073	8387	04-Nov-13	11042013-002.SSF	157289.9521	13531
722213.236	4294372.115	8318	04-Nov-13	11042013-002.SSF	157290.8242	13532
722213.231	4294372.194	8429	04-Nov-13	11042013-002.SSF	157291.9248	13533
722213.302	4294372.199	8176	04-Nov-13	11042013-002.SSF	157292.8711	13534
722213.344	4294372.214	8281	04-Nov-13	11042013-002.SSF	157293.9448	13535
722213.348	4294372.24	8243	04-Nov-13	11042013-002.SSF	157294.8281	13536
722213.367	4294372.273	8642	04-Nov-13	11042013-002.SSF	157295.9121	13537
722213.424	4294372.262	8686	04-Nov-13	11042013-002.SSF	157296.7969	13538
722213.476	4294372.26	8531	04-Nov-13	11042013-002.SSF	157297.9019	13539
722213.512	4294372.288	7941	04-Nov-13	11042013-002.SSF	157298.8418	13540
722213.565	4294372.284	8599	04-Nov-13	11042013-002.SSF	157299.9038	13541
722213.618	4294372.253	8467	04-Nov-13	11042013-002.SSF	157300.8721	13542
722213.635	4294372.27	7927	04-Nov-13	11042013-002.SSF	157301.9351	13543
722213.638	4294372.273	7189	04-Nov-13	11042013-002.SSF	157302.8408	13544
722213.511	4294372.385	7927	04-Nov-13	11042013-002.SSF	157304.8091	13546
722213.388	4294372.301	8303	04-Nov-13	11042013-002.SSF	157306.8799	13548
722213.467	4294372.327	8151	04-Nov-13	11042013-002.SSF	157308.0479	13549
722213.516	4294372.339	8327	04-Nov-13	11042013-002.SSF	157308.9219	13550
722213.554	4294372.327	8044	04-Nov-13	11042013-002.SSF	157309.9321	13551
722213.518	4294372.297	7854	04-Nov-13	11042013-002.SSF	157310.8232	13552
722213.443	4294372.246	8355	04-Nov-13	11042013-002.SSF	157311.98	13553
722213.407	4294372.212	8427	04-Nov-13	11042013-002.SSF	157312.8828	13554
722213.377	4294372.175	8520	04-Nov-13	11042013-002.SSF	157313.9219	13555
722213.343	4294372.127	8602	04-Nov-13	11042013-002.SSF	157314.7998	13556
722213.301	4294372.128	7876	04-Nov-13	11042013-002.SSF	157315.96	13557
722213.278	4294372.142	7955	04-Nov-13	11042013-002.SSF	157316.8428	13558
722213.24	4294372.157	8037	04-Nov-13	11042013-002.SSF	157317.9771	13559
722213.224	4294372.176	7941	04-Nov-13	11042013-002.SSF	157318.8208	13560
722213.182	4294372.211	8156	04-Nov-13	11042013-002.SSF	157319.9878	13561
722213.148	4294372.09	7993	04-Nov-13	11042013-002.SSF	157320.8018	13562
722213.114	4294371.966	8186	04-Nov-13	11042013-002.SSF	157321.873	13563
722213.132	4294371.898	8047	04-Nov-13	11042013-002.SSF	157322.7891	13564
722213.211	4294371.918	8104	04-Nov-13	11042013-002.SSF	157323.9121	13565

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722213.25	4294371.956	8008	04-Nov-13	11042013-002.SSF	157324.7451	13566
722213.343	4294372.063	8007	04-Nov-13	11042013-002.SSF	157325.9658	13567
722213.407	4294372.074	8314	04-Nov-13	11042013-002.SSF	157326.8379	13568
722213.452	4294372.117	7871	04-Nov-13	11042013-002.SSF	157327.9551	13569
722213.544	4294372.155	7375	04-Nov-13	11042013-002.SSF	157328.873	13570
722213.648	4294372.21	7606	04-Nov-13	11042013-002.SSF	157330.0552	13571
722213.735	4294372.278	7818	04-Nov-13	11042013-002.SSF	157330.8701	13572
722213.822	4294372.378	7473	04-Nov-13	11042013-002.SSF	157331.9492	13573
722213.883	4294372.427	7166	04-Nov-13	11042013-002.SSF	157332.8501	13574
722213.957	4294372.47	7931	04-Nov-13	11042013-002.SSF	157334.0088	13575
722213.994	4294372.503	7836	04-Nov-13	11042013-002.SSF	157334.8931	13576
722214.005	4294372.511	7707	04-Nov-13	11042013-002.SSF	157335.9141	13577
722214.007	4294372.53	7793	04-Nov-13	11042013-002.SSF	157336.8008	13578
722214.004	4294372.534	7773	04-Nov-13	11042013-002.SSF	157337.9292	13579
722214.009	4294372.557	7845	04-Nov-13	11042013-002.SSF	157338.7842	13580
722214.012	4294372.611	8170	04-Nov-13	11042013-002.SSF	157339.937	13581
722214.02	4294372.636	8031	04-Nov-13	11042013-002.SSF	157340.793	13582
722214.016	4294372.679	8297	04-Nov-13	11042013-002.SSF	157341.8862	13583
722214.014	4294372.704	8454	04-Nov-13	11042013-002.SSF	157342.834	13584
722213.976	4294372.708	8625	04-Nov-13	11042013-002.SSF	157343.876	13585
722213.969	4294372.675	8752	04-Nov-13	11042013-002.SSF	157344.8359	13586
722213.937	4294372.673	7975	04-Nov-13	11042013-002.SSF	157345.9341	13587
722213.904	4294372.718	8063	04-Nov-13	11042013-002.SSF	157346.7871	13588
722213.865	4294372.767	7985	04-Nov-13	11042013-002.SSF	157347.9351	13589
722213.836	4294372.779	8324	04-Nov-13	11042013-002.SSF	157348.7842	13590
722213.868	4294372.794	8147	04-Nov-13	11042013-002.SSF	157349.9248	13591
722213.866	4294372.768	8160	04-Nov-13	11042013-002.SSF	157350.793	13592
722213.827	4294372.681	8362	04-Nov-13	11042013-002.SSF	157351.897	13593
722213.78	4294372.69	8491	04-Nov-13	11042013-002.SSF	157352.853	13594
722213.715	4294372.75	8744	04-Nov-13	11042013-002.SSF	157353.9131	13595
722213.663	4294372.712	8218	04-Nov-13	11042013-002.SSF	157354.8208	13596
722213.585	4294372.664	8080	04-Nov-13	11042013-002.SSF	157355.9971	13597
722213.534	4294372.691	8617	04-Nov-13	11042013-002.SSF	157356.8662	13598
722213.473	4294372.628	8890	04-Nov-13	11042013-002.SSF	157357.9048	13599
722213.396	4294372.621	8398	04-Nov-13	11042013-002.SSF	157358.8691	13600
722213.331	4294372.641	8129	04-Nov-13	11042013-002.SSF	157359.9458	13601
722213.271	4294372.423	8105	04-Nov-13	11042013-002.SSF	157360.8008	13602
722213.2	4294372.227	7791	04-Nov-13	11042013-002.SSF	157361.8999	13603
722213.192	4294372.051	7600	04-Nov-13	11042013-002.SSF	157362.8799	13604
722213.194	4294371.91	7860	04-Nov-13	11042013-002.SSF	157363.9048	13605
722213.205	4294371.836	8066	04-Nov-13	11042013-002.SSF	157364.8042	13606
722213.212	4294371.771	7875	04-Nov-13	11042013-002.SSF	157365.8921	13607
722213.229	4294371.766	7827	04-Nov-13	11042013-002.SSF	157366.9199	13608
722213.251	4294371.756	7665	04-Nov-13	11042013-002.SSF	157367.9199	13609
722213.271	4294371.691	7529	04-Nov-13	11042013-002.SSF	157368.897	13610
722213.242	4294371.712	7955	04-Nov-13	11042013-002.SSF	157369.9551	13611
722213.221	4294371.712	8074	04-Nov-13	11042013-002.SSF	157370.7891	13612

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722213.164	4294371.747	8487	04-Nov-13	11042013-002.SSF	157371.834	13613
722213.089	4294371.723	8809	04-Nov-13	11042013-002.SSF	157372.854	13614
722213.101	4294371.637	8472	04-Nov-13	11042013-002.SSF	157373.8901	13615
722213.102	4294371.666	8426	04-Nov-13	11042013-002.SSF	157374.855	13616
722213.148	4294371.769	8174	04-Nov-13	11042013-002.SSF	157375.8691	13617
722213.182	4294371.843	9143	04-Nov-13	11042013-002.SSF	157376.7549	13618
722213.184	4294371.793	9155	04-Nov-13	11042013-002.SSF	157377.8662	13619
722213.257	4294371.724	8765	04-Nov-13	11042013-002.SSF	157378.8301	13620
722213.402	4294371.638	8507	04-Nov-13	11042013-002.SSF	157379.894	13621
722213.49	4294371.65	8025	04-Nov-13	11042013-002.SSF	157380.8149	13622
722213.602	4294371.825	8362	04-Nov-13	11042013-002.SSF	157381.9438	13623
722213.597	4294371.971	7681	04-Nov-13	11042013-002.SSF	157382.8511	13624
722213.59	4294372.173	7830	04-Nov-13	11042013-002.SSF	157383.9302	13625
722213.582	4294372.256	7749	04-Nov-13	11042013-002.SSF	157384.8662	13626
722213.565	4294372.298	7674	04-Nov-13	11042013-002.SSF	157385.9058	13627
722213.551	4294372.367	8231	04-Nov-13	11042013-002.SSF	157386.7739	13628
722213.527	4294372.434	8162	04-Nov-13	11042013-002.SSF	157387.8652	13629
722213.497	4294372.581	8184	04-Nov-13	11042013-002.SSF	157388.8169	13630
722213.478	4294372.697	8481	04-Nov-13	11042013-002.SSF	157389.853	13631
722213.458	4294372.775	8633	04-Nov-13	11042013-002.SSF	157390.8008	13632
722213.443	4294372.794	8418	04-Nov-13	11042013-002.SSF	157391.8892	13633
722213.327	4294372.819	8140	04-Nov-13	11042013-002.SSF	157392.7422	13634
722213.212	4294373.054	8133	04-Nov-13	11042013-002.SSF	157393.8979	13635
722213.171	4294373.473	8482	04-Nov-13	11042013-002.SSF	157394.7461	13636
722212.833	4294374.139	8574	04-Nov-13	11042013-002.SSF	157395.894	13637
722212.993	4294375.235	8572	04-Nov-13	11042013-002.SSF	157396.8369	13638
722212.698	4294375.332	8534	04-Nov-13	11042013-002.SSF	157397.875	13639
722212.787	4294375.124	8055	04-Nov-13	11042013-002.SSF	157398.8291	13640
722212.469	4294375.307	8708	04-Nov-13	11042013-002.SSF	157399.8892	13641
722212.192	4294375.526	9263	04-Nov-13	11042013-002.SSF	157400.8159	13642
722211.88	4294375.705	9193	04-Nov-13	11042013-002.SSF	157401.9722	13643
722211.811	4294375.978	8208	04-Nov-13	11042013-002.SSF	157402.8691	13644
722211.681	4294376.363	7985	04-Nov-13	11042013-002.SSF	157403.8691	13645
722211.272	4294376.76	8144	04-Nov-13	11042013-002.SSF	157404.7959	13646
722210.676	4294377.666	8428	04-Nov-13	11042013-002.SSF	157405.8589	13647
722210.442	4294378.193	8191	04-Nov-13	11042013-002.SSF	157406.7988	13648
722210.116	4294378.862	8335	04-Nov-13	11042013-002.SSF	157407.9341	13649
722209.927	4294379.447	8768	04-Nov-13	11042013-002.SSF	157408.813	13650
722209.491	4294380.332	8442	04-Nov-13	11042013-002.SSF	157409.873	13651
722208.98	4294381.273	9121	04-Nov-13	11042013-002.SSF	157410.8052	13652
722208.431	4294382.073	9293	04-Nov-13	11042013-002.SSF	157411.8882	13653
722208.135	4294382.58	9652	04-Nov-13	11042013-002.SSF	157412.7402	13654
722207.923	4294383.697	9622	04-Nov-13	11042013-002.SSF	157413.8398	13655
722207.755	4294384.837	9492	04-Nov-13	11042013-002.SSF	157414.7852	13656
722207.88	4294385.882	9172	04-Nov-13	11042013-002.SSF	157415.9102	13657
722208.341	4294385.919	8991	04-Nov-13	11042013-002.SSF	157416.8252	13658
722208.606	4294385.219	9093	04-Nov-13	11042013-002.SSF	157417.9458	13659

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722208.898	4294384.454	8684	04-Nov-13	11042013-002.SSF	157418.7661	13660
722209.102	4294383.2	8627	04-Nov-13	11042013-002.SSF	157419.978	13661
722209.456	4294382.395	8085	04-Nov-13	11042013-002.SSF	157420.8848	13662
722209.83	4294381.003	8463	04-Nov-13	11042013-002.SSF	157421.8818	13663
722209.919	4294380.366	8660	04-Nov-13	11042013-002.SSF	157422.8408	13664
722209.805	4294379.523	8486	04-Nov-13	11042013-002.SSF	157423.9092	13665
722209.614	4294378.868	8621	04-Nov-13	11042013-002.SSF	157424.812	13666
722209.638	4294378.053	7931	04-Nov-13	11042013-002.SSF	157425.9009	13667
722209.463	4294377.379	7956	04-Nov-13	11042013-002.SSF	157426.7832	13668
722210.017	4294375.862	8291	04-Nov-13	11042013-002.SSF	157428.7852	13669
722210.281	4294374.982	8083	04-Nov-13	11042013-002.SSF	157429.9058	13670
722210.301	4294374.696	8169	04-Nov-13	11042013-002.SSF	157430.8169	13671
722210.609	4294374.411	8368	04-Nov-13	11042013-002.SSF	157431.8799	13672
722210.723	4294374.505	7841	04-Nov-13	11042013-002.SSF	157432.833	13673
722210.734	4294374.622	7793	04-Nov-13	11042013-002.SSF	157433.8809	13674
722210.806	4294374.95	7617	04-Nov-13	11042013-002.SSF	157435.9058	13675
722210.941	4294375.011	7607	04-Nov-13	11042013-002.SSF	157436.8311	13676
722211.102	4294375.075	7541	04-Nov-13	11042013-002.SSF	157437.9019	13677
722211.274	4294375.138	7632	04-Nov-13	11042013-002.SSF	157438.7642	13678
722211.629	4294375.057	7960	04-Nov-13	11042013-002.SSF	157440.0298	13679
722211.782	4294375.166	7770	04-Nov-13	11042013-002.SSF	157440.813	13680
722211.91	4294375.062	7933	04-Nov-13	11042013-002.SSF	157441.8799	13681
722211.911	4294374.938	8175	04-Nov-13	11042013-002.SSF	157442.813	13682
722211.869	4294374.805	8363	04-Nov-13	11042013-002.SSF	157443.856	13683
722211.97	4294374.757	8559	04-Nov-13	11042013-002.SSF	157444.8169	13684
722212.082	4294374.73	8302	04-Nov-13	11042013-002.SSF	157445.895	13685
722212.1	4294374.683	8315	04-Nov-13	11042013-002.SSF	157446.8511	13686
722212.103	4294374.616	8247	04-Nov-13	11042013-002.SSF	157447.9512	13687
722212.145	4294374.593	8419	04-Nov-13	11042013-002.SSF	157448.7959	13688
722212.21	4294374.567	7878	04-Nov-13	11042013-002.SSF	157449.8999	13689
722212.267	4294374.52	7701	04-Nov-13	11042013-002.SSF	157450.7529	13690
722212.291	4294374.456	7969	04-Nov-13	11042013-002.SSF	157451.873	13691
722212.45	4294374.263	8195	04-Nov-13	11042013-002.SSF	157452.7471	13692
722212.548	4294374.056	8412	04-Nov-13	11042013-002.SSF	157453.875	13693
722212.562	4294374.062	8407	04-Nov-13	11042013-002.SSF	157454.7598	13694
722212.669	4294374.283	7863	04-Nov-13	11042013-002.SSF	157455.9209	13695
722212.807	4294374.385	7828	04-Nov-13	11042013-002.SSF	157456.8252	13696
722212.858	4294374.444	7891	04-Nov-13	11042013-002.SSF	157457.9199	13697
722212.895	4294374.472	7671	04-Nov-13	11042013-002.SSF	157458.8071	13698
722212.964	4294374.487	7675	04-Nov-13	11042013-002.SSF	157459.9448	13699
722212.985	4294374.493	7669	04-Nov-13	11042013-002.SSF	157460.7822	13700
722212.95	4294374.48	7021	04-Nov-13	11042013-002.SSF	157461.8999	13701
722212.947	4294374.483	7257	04-Nov-13	11042013-002.SSF	157462.7749	13702
722213.032	4294374.546	7367	04-Nov-13	11042013-002.SSF	157463.9102	13703
722212.694	4294374.52	7711	04-Nov-13	11042013-002.SSF	157465.8931	13704
722212.552	4294374.657	7705	04-Nov-13	11042013-002.SSF	157466.7349	13705
722212.463	4294374.774	8076	04-Nov-13	11042013-002.SSF	157467.8252	13706

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722212.405	4294374.879	7955	04-Nov-13	11042013-002.SSF	157468.7251	13707
722212.415	4294375.161	7902	04-Nov-13	11042013-002.SSF	157469.7949	13708
722212.431	4294375.381	7715	04-Nov-13	11042013-002.SSF	157470.79	13709
722212.424	4294375.579	8104	04-Nov-13	11042013-002.SSF	157471.8848	13710
722212.448	4294375.607	7386	04-Nov-13	11042013-002.SSF	157472.8301	13711
722212.48	4294375.641	7665	04-Nov-13	11042013-002.SSF	157473.8721	13712
722212.469	4294375.775	7731	04-Nov-13	11042013-002.SSF	157474.8301	13713
722212.53	4294375.724	7604	04-Nov-13	11042013-002.SSF	157475.8911	13714
722212.6	4294375.656	7502	04-Nov-13	11042013-002.SSF	157476.835	13715
722212.712	4294375.45	7535	04-Nov-13	11042013-002.SSF	157477.8789	13716
722212.81	4294375.367	7950	04-Nov-13	11042013-002.SSF	157478.8428	13717
722212.895	4294375.319	7675	04-Nov-13	11042013-002.SSF	157479.895	13718
722212.94	4294375.171	8127	04-Nov-13	11042013-002.SSF	157480.7988	13719
722212.959	4294374.955	8636	04-Nov-13	11042013-002.SSF	157481.8389	13720
722212.952	4294374.971	8563	04-Nov-13	11042013-002.SSF	157482.7979	13721
722212.931	4294374.883	8334	04-Nov-13	11042013-002.SSF	157483.8892	13722
722212.953	4294374.79	7957	04-Nov-13	11042013-002.SSF	157484.769	13723
722212.964	4294374.82	7573	04-Nov-13	11042013-002.SSF	157485.8232	13724
722213.011	4294374.822	7582	04-Nov-13	11042013-002.SSF	157486.7559	13725
722213.057	4294374.864	6965	04-Nov-13	11042013-002.SSF	157487.8232	13726
722213.093	4294374.854	7173	04-Nov-13	11042013-002.SSF	157488.7822	13727
722213.103	4294374.836	7387	04-Nov-13	11042013-002.SSF	157489.8638	13728
722213.117	4294374.867	7387	04-Nov-13	11042013-002.SSF	157490.793	13729
722213.099	4294374.939	7290	04-Nov-13	11042013-002.SSF	157491.8491	13730
722213.315	4294374.601	7123	04-Nov-13	11042013-002.SSF	157492.8311	13731
722213.415	4294374.443	8004	04-Nov-13	11042013-002.SSF	157493.9619	13732
722213.402	4294374.362	7720	04-Nov-13	11042013-002.SSF	157494.8198	13733
722213.165	4294374.407	7957	04-Nov-13	11042013-002.SSF	157495.9438	13734
722213.091	4294374.459	8256	04-Nov-13	11042013-002.SSF	157496.7559	13735
722213.002	4294374.539	7996	04-Nov-13	11042013-002.SSF	157497.96	13736
722212.943	4294374.6	7903	04-Nov-13	11042013-002.SSF	157498.8032	13737
722212.912	4294374.629	7730	04-Nov-13	11042013-002.SSF	157499.9619	13738
722212.977	4294374.591	7768	04-Nov-13	11042013-002.SSF	157500.6982	13739
722213.073	4294374.463	7624	04-Nov-13	11042013-002.SSF	157501.792	13740
722213.102	4294374.359	7664	04-Nov-13	11042013-002.SSF	157502.7388	13741
722213.106	4294374.349	7468	04-Nov-13	11042013-002.SSF	157503.8511	13742
722213.099	4294374.409	6908	04-Nov-13	11042013-002.SSF	157504.7061	13743
722213.032	4294374.506	7591	04-Nov-13	11042013-002.SSF	157505.7949	13744
722212.981	4294374.573	8140	04-Nov-13	11042013-002.SSF	157506.7642	13745
722212.928	4294374.608	7751	04-Nov-13	11042013-002.SSF	157507.8198	13746
722213.066	4294374.793	7555	04-Nov-13	11042013-002.SSF	157508.7769	13747
722213.282	4294375.035	7827	04-Nov-13	11042013-002.SSF	157509.8188	13748
722213.513	4294375.235	7777	04-Nov-13	11042013-002.SSF	157510.7139	13749
722213.724	4294375.507	7990	04-Nov-13	11042013-002.SSF	157511.8618	13750
722213.667	4294375.563	8057	04-Nov-13	11042013-002.SSF	157512.8081	13751
722213.546	4294375.531	8919	04-Nov-13	11042013-002.SSF	157513.8008	13752
722213.449	4294375.473	8767	04-Nov-13	11042013-002.SSF	157514.8008	13753

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722213.241	4294375.465	7826	04-Nov-13	11042013-002.SSF	157516.772	13755
722213.169	4294375.431	8264	04-Nov-13	11042013-002.SSF	157517.9839	13756
722213.083	4294375.373	8339	04-Nov-13	11042013-002.SSF	157518.813	13757
722213.003	4294375.287	8478	04-Nov-13	11042013-002.SSF	157519.8799	13758
722212.936	4294375.223	8084	04-Nov-13	11042013-002.SSF	157520.8218	13759
722212.899	4294375.159	7907	04-Nov-13	11042013-002.SSF	157521.877	13760
722212.887	4294375.128	7890	04-Nov-13	11042013-002.SSF	157522.8281	13761
722212.864	4294375.11	7738	04-Nov-13	11042013-002.SSF	157523.8481	13762
722213.108	4294374.901	7653	04-Nov-13	11042013-002.SSF	157524.7969	13763
722212.988	4294374.551	8219	04-Nov-13	11042013-002.SSF	157525.791	13764
722212.802	4294374.136	8088	04-Nov-13	11042013-002.SSF	157526.7378	13765
722212.543	4294373.778	7984	04-Nov-13	11042013-002.SSF	157527.8218	13766
722212.255	4294373.363	8076	04-Nov-13	11042013-002.SSF	157528.7021	13767
722211.676	4294373.095	7820	04-Nov-13	11042013-002.SSF	157529.811	13768
722211.424	4294373.024	8201	04-Nov-13	11042013-002.SSF	157530.731	13769
722211.11	4294372.904	8115	04-Nov-13	11042013-002.SSF	157531.8359	13770
722210.912	4294373.005	7805	04-Nov-13	11042013-002.SSF	157532.7441	13771
722210.869	4294372.837	8572	04-Nov-13	11042013-002.SSF	157534.7471	13772
722210.737	4294373.18	8887	04-Nov-13	11042013-002.SSF	157535.8511	13773
722210.637	4294373.353	8321	04-Nov-13	11042013-002.SSF	157536.769	13774
722210.533	4294373.604	8198	04-Nov-13	11042013-002.SSF	157537.8511	13775
722210.499	4294373.644	8481	04-Nov-13	11042013-002.SSF	157538.7432	13776
722210.41	4294373.741	7433	04-Nov-13	11042013-002.SSF	157539.8398	13777
722210.23	4294373.917	8036	04-Nov-13	11042013-002.SSF	157540.7461	13778
722209.976	4294374.292	7633	04-Nov-13	11042013-002.SSF	157541.8198	13779
722209.793	4294374.619	7691	04-Nov-13	11042013-002.SSF	157542.7212	13780
722209.791	4294374.706	8083	04-Nov-13	11042013-002.SSF	157543.8252	13781
722209.863	4294374.588	8117	04-Nov-13	11042013-002.SSF	157544.7358	13782
722209.909	4294374.458	7581	04-Nov-13	11042013-002.SSF	157545.8281	13783
722209.953	4294374.469	6964	04-Nov-13	11042013-002.SSF	157546.7422	13784
722210.045	4294374.579	7435	04-Nov-13	11042013-002.SSF	157547.8188	13785
722210.041	4294374.687	8217	04-Nov-13	11042013-002.SSF	157548.6831	13786
722210.027	4294374.65	8124	04-Nov-13	11042013-002.SSF	157549.7739	13787
722209.976	4294374.669	8170	04-Nov-13	11042013-002.SSF	157550.7241	13788
722209.984	4294374.576	8023	04-Nov-13	11042013-002.SSF	157551.8232	13789
722210.037	4294374.384	7985	04-Nov-13	11042013-002.SSF	157552.7402	13790
722210.097	4294374.188	7784	04-Nov-13	11042013-002.SSF	157553.8311	13791
722210.164	4294374.048	7971	04-Nov-13	11042013-002.SSF	157554.8198	13792
722210.135	4294373.952	7933	04-Nov-13	11042013-002.SSF	157555.791	13793
722210.169	4294373.781	8137	04-Nov-13	11042013-002.SSF	157556.7808	13794
722210.198	4294373.642	7660	04-Nov-13	11042013-002.SSF	157557.8252	13795
722210.103	4294373.558	7998	04-Nov-13	11042013-002.SSF	157558.7798	13796
722209.972	4294373.582	8084	04-Nov-13	11042013-002.SSF	157559.8882	13797
722209.818	4294373.6	8365	04-Nov-13	11042013-002.SSF	157560.6548	13798
722209.627	4294373.581	8117	04-Nov-13	11042013-002.SSF	157561.7178	13799
722209.46	4294373.515	7723	04-Nov-13	11042013-002.SSF	157562.7461	13800

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722209.107	4294373.328	8336	04-Nov-13	11042013-002.SSF	157564.7222	13802
722209.066	4294373.171	8056	04-Nov-13	11042013-002.SSF	157565.8232	13803
722209.098	4294373.116	8439	04-Nov-13	11042013-002.SSF	157566.7769	13804
722209.189	4294373.089	8549	04-Nov-13	11042013-002.SSF	157567.8311	13805
722209.2	4294373.12	8641	04-Nov-13	11042013-002.SSF	157568.7881	13806
722209.31	4294373.051	8213	04-Nov-13	11042013-002.SSF	157569.8862	13807
722209.358	4294373.046	8220	04-Nov-13	11042013-002.SSF	157570.7441	13808
722209.403	4294373.072	8201	04-Nov-13	11042013-002.SSF	157571.7988	13809
722209.479	4294373.098	8205	04-Nov-13	11042013-002.SSF	157572.7749	13810
722209.641	4294372.935	7623	04-Nov-13	11042013-002.SSF	157573.8608	13811
722209.678	4294372.796	8465	04-Nov-13	11042013-002.SSF	157574.708	13812
722209.688	4294372.626	8219	04-Nov-13	11042013-002.SSF	157575.8188	13813
722209.725	4294372.752	7353	04-Nov-13	11042013-002.SSF	157576.7822	13814
722209.495	4294372.852	7248	04-Nov-13	11042013-002.SSF	157577.9019	13815
722209.196	4294372.866	7235	04-Nov-13	11042013-002.SSF	157579.8452	13816
722209.242	4294372.925	8307	04-Nov-13	11042013-002.SSF	157580.707	13817
722209.128	4294372.996	8017	04-Nov-13	11042013-002.SSF	157581.7808	13818
722209.162	4294374.005	8507	04-Nov-13	11042013-002.SSF	157584.7539	13819
722208.991	4294373.91	7683	04-Nov-13	11042013-002.SSF	157587.9292	13820
722208.778	4294373.55	7554	04-Nov-13	11042013-002.SSF	157588.7852	13821
722208.774	4294373.076	7961	04-Nov-13	11042013-002.SSF	157589.814	13822
722208.583	4294372.72	7500	04-Nov-13	11042013-002.SSF	157590.7031	13823
722208.503	4294372.567	7226	04-Nov-13	11042013-002.SSF	157591.8579	13824
722209.511	4294371.023	7442	04-Nov-13	11042013-002.SSF	157594.7178	13825
722210.581	4294369.521	7261	04-Nov-13	11042013-002.SSF	157597.8848	13826
722210.842	4294369.256	7159	04-Nov-13	11042013-002.SSF	157598.7412	13827
722210.987	4294368.894	6719	04-Nov-13	11042013-002.SSF	157599.8252	13828
722211.247	4294368.627	6532	04-Nov-13	11042013-002.SSF	157600.665	13829
722211.804	4294367.876	6652	04-Nov-13	11042013-002.SSF	157601.7852	13830
722212.214	4294367.457	6651	04-Nov-13	11042013-002.SSF	157602.6831	13831
722212.666	4294367.118	6693	04-Nov-13	11042013-002.SSF	157604.6758	13832
722212.756	4294367.138	6330	04-Nov-13	11042013-002.SSF	157605.8828	13833
722213.108	4294366.991	6350	04-Nov-13	11042013-002.SSF	157606.7461	13834
722213.39	4294366.747	6602	04-Nov-13	11042013-002.SSF	157607.9102	13835
722214.786	4294366.022	6856	04-Nov-13	11042013-002.SSF	157609.8452	13836
722215.209	4294366.562	6729	04-Nov-13	11042013-002.SSF	157611.8179	13837
722214.822	4294366.194	6560	04-Nov-13	11042013-002.SSF	157612.8301	13838
722214.502	4294365.786	6465	04-Nov-13	11042013-002.SSF	157614.1118	13839
722215.075	4294364.842	7243	04-Nov-13	11042013-002.SSF	157619.75	13840
722215.107	4294364.725	6714	04-Nov-13	11042013-002.SSF	157620.708	13841
722215	4294364.151	6469	04-Nov-13	11042013-002.SSF	157624.752	13843
722215.112	4294363.783	6406	04-Nov-13	11042013-002.SSF	157625.8052	13844
722215.05	4294363.647	6558	04-Nov-13	11042013-002.SSF	157626.7861	13845
722214.885	4294363.036	7283	04-Nov-13	11042013-002.SSF	157628.7881	13846
722215.086	4294362.745	7539	04-Nov-13	11042013-002.SSF	157629.8379	13847
722215.279	4294362.077	6921	04-Nov-13	11042013-002.SSF	157632.7168	13848

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722216.462	4294361.586	7284	04-Nov-13	11042013-002.SSF	157634.7339	13850
722216.924	4294361.471	7382	04-Nov-13	11042013-002.SSF	157635.7891	13851
722217.034	4294361.362	7250	04-Nov-13	11042013-002.SSF	157636.6968	13852
722217.163	4294361.143	6958	04-Nov-13	11042013-002.SSF	157637.8198	13853
722217.412	4294360.845	7109	04-Nov-13	11042013-002.SSF	157638.7588	13854
722217.795	4294360.475	6466	04-Nov-13	11042013-002.SSF	157639.7612	13855
722218.153	4294360.103	7050	04-Nov-13	11042013-002.SSF	157640.7158	13856
722218.334	4294359.658	7213	04-Nov-13	11042013-002.SSF	157641.77	13857
722218.261	4294359.248	6907	04-Nov-13	11042013-002.SSF	157642.7651	13858
722218.105	4294358.261	7372	04-Nov-13	11042013-002.SSF	157643.8369	13859
722217.527	4294357.606	6982	04-Nov-13	11042013-002.SSF	157644.7148	13860
722216.424	4294356.792	6770	04-Nov-13	11042013-002.SSF	157645.8291	13861
722215.404	4294356.481	6635	04-Nov-13	11042013-002.SSF	157646.7842	13862
722214.612	4294356.97	6620	04-Nov-13	11042013-002.SSF	157647.835	13863
722213.513	4294357.931	7091	04-Nov-13	11042013-002.SSF	157648.7939	13864
722213.552	4294358.617	7086	04-Nov-13	11042013-002.SSF	157649.7852	13865
722213.838	4294359.162	7278	04-Nov-13	11042013-002.SSF	157650.7251	13866
722214.529	4294359.744	7236	04-Nov-13	11042013-002.SSF	157651.8198	13867
722214.979	4294360.194	6958	04-Nov-13	11042013-002.SSF	157652.6689	13868
722215.172	4294360.802	6801	04-Nov-13	11042013-002.SSF	157653.73	13869
722215.267	4294361.447	6608	04-Nov-13	11042013-002.SSF	157654.71	13870
722215.278	4294362.219	6409	04-Nov-13	11042013-002.SSF	157655.7979	13871
722215.291	4294362.528	6695	04-Nov-13	11042013-002.SSF	157656.771	13872
722215.458	4294362.997	6573	04-Nov-13	11042013-002.SSF	157658.749	13874
722215.458	4294363.251	6772	04-Nov-13	11042013-002.SSF	157659.8052	13875
722215.31	4294363.592	6772	04-Nov-13	11042013-002.SSF	157660.728	13876
722215.253	4294363.946	6246	04-Nov-13	11042013-002.SSF	157661.8721	13877
722213.273	4294367.983	7792	04-Nov-13	11042013-002.SSF	157670.6982	13878
722213.306	4294368.565	7662	04-Nov-13	11042013-002.SSF	157671.7949	13879
722213.277	4294369.126	7294	04-Nov-13	11042013-002.SSF	157672.7339	13880
722213.179	4294370.051	7695	04-Nov-13	11042013-002.SSF	157673.791	13881
722213.269	4294370.785	7944	04-Nov-13	11042013-002.SSF	157674.7441	13882
722213.121	4294371.69	7633	04-Nov-13	11042013-002.SSF	157675.7979	13883
722213.133	4294372.422	7706	04-Nov-13	11042013-002.SSF	157676.7422	13884
722213.142	4294373.2	8145	04-Nov-13	11042013-002.SSF	157677.7432	13885
722213.335	4294373.763	8421	04-Nov-13	11042013-002.SSF	157678.7441	13886
722213.753	4294374.003	9042	04-Nov-13	11042013-002.SSF	157679.7451	13887
722214.276	4294373.945	8303	04-Nov-13	11042013-002.SSF	157680.686	13888
722214.468	4294373.544	8765	04-Nov-13	11042013-002.SSF	157681.7822	13889
722214.59	4294373.534	8013	04-Nov-13	11042013-002.SSF	157682.6411	13890
722214.233	4294372.985	8137	04-Nov-13	11042013-002.SSF	157683.7891	13891
722213.914	4294372.549	7915	04-Nov-13	11042013-002.SSF	157684.6328	13892
722213.69	4294372.31	7947	04-Nov-13	11042013-002.SSF	157685.8149	13893
722213.597	4294372.423	8025	04-Nov-13	11042013-002.SSF	157686.7002	13894
722213.947	4294372.406	7484	04-Nov-13	11042013-002.SSF	157687.75	13895
722214.149	4294372.135	8312	04-Nov-13	11042013-002.SSF	157688.6572	13896

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722214.798	4294371.5	8221	04-Nov-13	11042013-002.SSF	157690.7949	13898
722215.064	4294371.67	7572	04-Nov-13	11042013-002.SSF	157691.793	13899
722215.241	4294371.374	7462	04-Nov-13	11042013-002.SSF	157692.793	13900
722215.344	4294370.515	7504	04-Nov-13	11042013-002.SSF	157693.8008	13901
722215.142	4294369.921	7679	04-Nov-13	11042013-002.SSF	157694.71	13902
722215.114	4294369.012	7612	04-Nov-13	11042013-002.SSF	157695.7988	13903
722215.353	4294368.171	7694	04-Nov-13	11042013-002.SSF	157696.7378	13904
722215.661	4294367.322	8062	04-Nov-13	11042013-002.SSF	157697.834	13905
722215.637	4294366.554	7437	04-Nov-13	11042013-002.SSF	157698.7671	13906
722216.14	4294364.818	6877	04-Nov-13	11042013-002.SSF	157700.7012	13908
722216.505	4294363.918	6981	04-Nov-13	11042013-002.SSF	157701.7959	13909
722216.698	4294363.747	6822	04-Nov-13	11042013-002.SSF	157702.6899	13910
722216.724	4294363.364	7092	04-Nov-13	11042013-002.SSF	157703.7549	13911
722217.191	4294362.33	6907	04-Nov-13	11042013-002.SSF	157704.6968	13912
722218.252	4294361.103	7102	04-Nov-13	11042013-002.SSF	157705.6968	13913
722218.859	4294360.418	7347	04-Nov-13	11042013-002.SSF	157706.6431	13914
722219.172	4294359.883	6578	04-Nov-13	11042013-002.SSF	157707.6909	13915
722219.426	4294359.362	6437	04-Nov-13	11042013-002.SSF	157708.668	13916
722219.639	4294359.051	6373	04-Nov-13	11042013-002.SSF	157709.7031	13917
722219.674	4294358.966	7035	04-Nov-13	11042013-002.SSF	157710.7119	13918
722219.892	4294358.581	7422	04-Nov-13	11042013-002.SSF	157711.71	13919
722220.097	4294358.296	7520	04-Nov-13	11042013-002.SSF	157712.6689	13920
722220.141	4294358.309	7642	04-Nov-13	11042013-002.SSF	157713.7441	13921
722220.29	4294358.457	7651	04-Nov-13	11042013-002.SSF	157714.7319	13922
722220.458	4294358.873	7589	04-Nov-13	11042013-002.SSF	157715.7251	13923
722220.442	4294359.402	7658	04-Nov-13	11042013-002.SSF	157716.6768	13924
722220.444	4294359.877	7083	04-Nov-13	11042013-002.SSF	157717.748	13925
722220.44	4294360.045	7202	04-Nov-13	11042013-002.SSF	157718.6279	13926
722220.426	4294360.035	6932	04-Nov-13	11042013-002.SSF	157719.731	13927
722220.506	4294359.944	7529	04-Nov-13	11042013-002.SSF	157720.6899	13928
722220.604	4294359.828	7168	04-Nov-13	11042013-002.SSF	157721.8081	13929
722220.703	4294359.74	6709	04-Nov-13	11042013-002.SSF	157722.6968	13930
722220.717	4294359.72	6586	04-Nov-13	11042013-002.SSF	157723.7661	13931
722220.745	4294359.741	6712	04-Nov-13	11042013-002.SSF	157724.6768	13932
722220.815	4294359.765	6423	04-Nov-13	11042013-002.SSF	157725.7881	13933
722220.725	4294359.784	6193	04-Nov-13	11042013-002.SSF	157726.729	13934
722220.607	4294359.773	6678	04-Nov-13	11042013-002.SSF	157727.8389	13935
722220.393	4294359.919	6711	04-Nov-13	11042013-002.SSF	157728.7412	13936
722219.879	4294360.134	6835	04-Nov-13	11042013-002.SSF	157729.8359	13937
722219.799	4294360.623	6634	04-Nov-13	11042013-002.SSF	157730.6348	13938
722219.777	4294361.608	6822	04-Nov-13	11042013-002.SSF	157731.7432	13939
722219.425	4294362.628	7265	04-Nov-13	11042013-002.SSF	157732.6489	13940
722218.825	4294363.834	6944	04-Nov-13	11042013-002.SSF	157733.728	13941
722218.347	4294364.988	7116	04-Nov-13	11042013-002.SSF	157734.6802	13942
722218.057	4294366.055	7325	04-Nov-13	11042013-002.SSF	157735.7808	13943
722217.827	4294366.935	7465	04-Nov-13	11042013-002.SSF	157736.6841	13944

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722217.637	4294367.854	7717	04-Nov-13	11042013-002.SSF	157737.8369	13945
722217.602	4294368.42	7610	04-Nov-13	11042013-002.SSF	157738.6792	13946
722217.195	4294369.079	7528	04-Nov-13	11042013-002.SSF	157739.772	13947
722216.97	4294369.538	7392	04-Nov-13	11042013-002.SSF	157740.6841	13948
722216.71	4294369.613	7848	04-Nov-13	11042013-002.SSF	157741.769	13949
722216.423	4294370.169	8367	04-Nov-13	11042013-002.SSF	157742.6812	13950
722215.866	4294370.95	8336	04-Nov-13	11042013-002.SSF	157743.7422	13951
722215.472	4294371.874	8514	04-Nov-13	11042013-002.SSF	157744.686	13952
722215.198	4294372.587	8539	04-Nov-13	11042013-002.SSF	157745.7559	13953
722214.97	4294373.28	8433	04-Nov-13	11042013-002.SSF	157746.6982	13954
722214.498	4294373.812	8651	04-Nov-13	11042013-002.SSF	157747.7432	13955
722213.754	4294374.045	8211	04-Nov-13	11042013-002.SSF	157748.689	13956
722213.111	4294373.923	8309	04-Nov-13	11042013-002.SSF	157749.7349	13957
722212.349	4294373.793	8116	04-Nov-13	11042013-002.SSF	157750.7158	13958
722211.604	4294373.195	8772	04-Nov-13	11042013-002.SSF	157751.8281	13959
722211.239	4294372.447	8204	04-Nov-13	11042013-002.SSF	157752.7192	13960
722210.754	4294371.506	7795	04-Nov-13	11042013-002.SSF	157753.8311	13961
722210.584	4294370.629	7924	04-Nov-13	11042013-002.SSF	157754.646	13962
722210.32	4294369.613	7660	04-Nov-13	11042013-002.SSF	157755.7329	13963
722210.434	4294369.059	7635	04-Nov-13	11042013-002.SSF	157756.6279	13964
722210.803	4294368.092	7623	04-Nov-13	11042013-002.SSF	157757.7158	13965
722211.17	4294367.229	7565	04-Nov-13	11042013-002.SSF	157758.6128	13966
722211.918	4294366.025	7330	04-Nov-13	11042013-002.SSF	157759.77	13967
722212.557	4294365.568	7333	04-Nov-13	11042013-002.SSF	157760.6909	13968
722213.505	4294365.109	6907	04-Nov-13	11042013-002.SSF	157761.8008	13969
722213.975	4294364.592	6510	04-Nov-13	11042013-002.SSF	157762.6821	13970
722214.297	4294363.564	7262	04-Nov-13	11042013-002.SSF	157763.811	13971
722214.53	4294363.053	6995	04-Nov-13	11042013-002.SSF	157764.6812	13972
722214.925	4294362.453	6799	04-Nov-13	11042013-002.SSF	157765.7871	13973
722215.304	4294362.057	6637	04-Nov-13	11042013-002.SSF	157766.7148	13974
722215.779	4294361.774	6681	04-Nov-13	11042013-002.SSF	157767.8389	13975
722216.419	4294361.504	6945	04-Nov-13	11042013-002.SSF	157768.6558	13976
722217.213	4294361.073	6967	04-Nov-13	11042013-002.SSF	157769.751	13977
722217.537	4294360.745	7106	04-Nov-13	11042013-002.SSF	157770.7012	13978
722218.05	4294360.563	7368	04-Nov-13	11042013-002.SSF	157772.646	13979
722218.081	4294360.732	7872	04-Nov-13	11042013-002.SSF	157773.7451	13980
722218.047	4294360.982	7713	04-Nov-13	11042013-002.SSF	157774.708	13981
722218.056	4294361.099	6911	04-Nov-13	11042013-002.SSF	157775.7891	13982
722218.04	4294361.199	6437	04-Nov-13	11042013-002.SSF	157776.6509	13983
722218.282	4294361.186	7063	04-Nov-13	11042013-002.SSF	157777.8032	13984
722218.388	4294361.538	7093	04-Nov-13	11042013-002.SSF	157778.7148	13985
722218.359	4294361.921	7170	04-Nov-13	11042013-002.SSF	157779.792	13986
722218.332	4294362.066	7078	04-Nov-13	11042013-002.SSF	157780.6919	13987
722218.367	4294362.107	7611	04-Nov-13	11042013-002.SSF	157781.7422	13988
722218.455	4294362.027	7476	04-Nov-13	11042013-002.SSF	157782.6938	13989
722218.572	4294361.976	7775	04-Nov-13	11042013-002.SSF	157783.7451	13990
722218.692	4294361.893	7156	04-Nov-13	11042013-002.SSF	157784.7002	13991

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722218.649	4294361.741	6699	04-Nov-13	11042013-002.SSF	157786.6909	13993
722218.63	4294361.687	6446	04-Nov-13	11042013-002.SSF	157787.7578	13994
722218.619	4294361.674	6528	04-Nov-13	11042013-002.SSF	157788.6548	13995
722218.622	4294361.656	6769	04-Nov-13	11042013-002.SSF	157789.7192	13996
722218.639	4294361.67	6763	04-Nov-13	11042013-002.SSF	157790.686	13997
722218.67	4294361.708	6916	04-Nov-13	11042013-002.SSF	157791.7568	13998
722218.701	4294361.698	7100	04-Nov-13	11042013-002.SSF	157792.7002	13999
722218.731	4294361.623	7264	04-Nov-13	11042013-002.SSF	157793.751	14000
722218.822	4294361.589	7476	04-Nov-13	11042013-002.SSF	157794.6909	14001
722219.012	4294361.584	7190	04-Nov-13	11042013-002.SSF	157795.8882	14002
722219.201	4294361.323	6690	04-Nov-13	11042013-002.SSF	157798.748	14003
722219.204	4294361.265	6863	04-Nov-13	11042013-002.SSF	157800.624	14004
722219.191	4294361.265	6966	04-Nov-13	11042013-002.SSF	157801.6948	14005
722219.098	4294361.219	6866	04-Nov-13	11042013-002.SSF	157802.6499	14006
722218.989	4294361.234	7102	04-Nov-13	11042013-002.SSF	157803.689	14007
722218.948	4294361.29	7167	04-Nov-13	11042013-002.SSF	157804.6519	14008
722218.95	4294361.31	7181	04-Nov-13	11042013-002.SSF	157805.6958	14009
722218.974	4294361.303	6717	04-Nov-13	11042013-002.SSF	157806.6489	14010
722219.008	4294361.344	6898	04-Nov-13	11042013-002.SSF	157807.687	14011
722219.035	4294361.366	6985	04-Nov-13	11042013-002.SSF	157808.6792	14012
722219.061	4294361.311	7266	04-Nov-13	11042013-002.SSF	157809.7568	14013
722219.079	4294361.301	6967	04-Nov-13	11042013-002.SSF	157810.6318	14014
722219.104	4294361.335	7226	04-Nov-13	11042013-002.SSF	157811.7349	14015
722219.138	4294361.309	7447	04-Nov-13	11042013-002.SSF	157812.6001	14016
722219.308	4294361.328	7609	04-Nov-13	11042013-002.SSF	157813.7529	14017
722219.433	4294361.31	7197	04-Nov-13	11042013-002.SSF	157814.6318	14018
722219.492	4294361.278	7011	04-Nov-13	11042013-002.SSF	157815.7002	14019
722219.498	4294361.252	6974	04-Nov-13	11042013-002.SSF	157816.6528	14020
722219.471	4294361.214	6645	04-Nov-13	11042013-002.SSF	157817.7471	14021
722219.457	4294361.189	6588	04-Nov-13	11042013-002.SSF	157818.6421	14022
722219.415	4294361.151	6540	04-Nov-13	11042013-002.SSF	157819.6958	14023
722219.352	4294361.107	6971	04-Nov-13	11042013-002.SSF	157820.6982	14024
722219.281	4294361.035	6921	04-Nov-13	11042013-002.SSF	157821.7861	14025
722219.231	4294361.016	6458	04-Nov-13	11042013-002.SSF	157822.627	14026
722219.155	4294360.981	6490	04-Nov-13	11042013-002.SSF	157823.7939	14027
722219.096	4294360.952	6763	04-Nov-13	11042013-002.SSF	157824.6631	14028
722219.025	4294360.915	7314	04-Nov-13	11042013-002.SSF	157825.71	14029
722218.963	4294360.862	7046	04-Nov-13	11042013-002.SSF	157826.5991	14030
722218.918	4294360.797	7421	04-Nov-13	11042013-002.SSF	157827.6831	14031
722218.9	4294360.772	6732	04-Nov-13	11042013-002.SSF	157828.606	14032
722218.782	4294360.776	6862	04-Nov-13	11042013-002.SSF	157829.7041	14033
722218.588	4294360.833	7527	04-Nov-13	11042013-002.SSF	157830.689	14034
722218.474	4294360.929	7579	04-Nov-13	11042013-002.SSF	157831.7588	14035
722218.483	4294360.966	7780	04-Nov-13	11042013-002.SSF	157832.6489	14036
722218.636	4294361.085	7906	04-Nov-13	11042013-002.SSF	157836.644	14037
722218.671	4294361.072	8122	04-Nov-13	11042013-002.SSF	157837.7461	14038

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722218.712	4294361.048	7711	04-Nov-13	11042013-002.SSF	157838.7148	14039
722218.774	4294360.966	6835	04-Nov-13	11042013-002.SSF	157839.8179	14040
722218.82	4294360.93	7197	04-Nov-13	11042013-002.SSF	157840.6011	14041
722218.87	4294360.84	6688	04-Nov-13	11042013-002.SSF	157841.6831	14042
722218.869	4294360.761	6964	04-Nov-13	11042013-002.SSF	157842.5571	14043
722218.829	4294360.703	6947	04-Nov-13	11042013-002.SSF	157843.731	14044
722218.789	4294360.626	7005	04-Nov-13	11042013-002.SSF	157844.6099	14045
722218.792	4294360.589	7060	04-Nov-13	11042013-002.SSF	157845.7168	14046
722218.755	4294360.592	7031	04-Nov-13	11042013-002.SSF	157846.5972	14047
722218.724	4294360.5	6752	04-Nov-13	11042013-002.SSF	157847.6729	14048
722218.747	4294360.463	7053	04-Nov-13	11042013-002.SSF	157848.5742	14049
722218.745	4294360.532	7087	04-Nov-13	11042013-002.SSF	157849.751	14050
722218.737	4294360.594	7489	04-Nov-13	11042013-002.SSF	157850.6318	14051
722218.755	4294360.591	7730	04-Nov-13	11042013-002.SSF	157851.7402	14052
722218.765	4294360.54	7393	04-Nov-13	11042013-002.SSF	157852.6392	14053
722218.769	4294360.49	7263	04-Nov-13	11042013-002.SSF	157853.6758	14054
722218.776	4294360.532	7431	04-Nov-13	11042013-002.SSF	157854.5688	14055
722218.806	4294360.559	7112	04-Nov-13	11042013-002.SSF	157855.6982	14056
722218.816	4294360.575	7008	04-Nov-13	11042013-002.SSF	157856.7041	14057
722218.821	4294360.607	7317	04-Nov-13	11042013-002.SSF	157857.7432	14058
722218.865	4294360.578	7641	04-Nov-13	11042013-002.SSF	157858.6162	14059
722218.947	4294360.57	6968	04-Nov-13	11042013-002.SSF	157859.7598	14060
722218.954	4294360.585	7047	04-Nov-13	11042013-002.SSF	157860.6401	14061
722218.916	4294360.592	6926	04-Nov-13	11042013-002.SSF	157861.6831	14062
722218.902	4294360.56	7248	04-Nov-13	11042013-002.SSF	157862.5928	14063
722218.911	4294360.506	7647	04-Nov-13	11042013-002.SSF	157863.6992	14064
722218.937	4294360.428	7691	04-Nov-13	11042013-002.SSF	157864.668	14065
722218.93	4294360.36	7551	04-Nov-13	11042013-002.SSF	157865.7148	14066
722218.896	4294360.339	7045	04-Nov-13	11042013-002.SSF	157866.5898	14067
722218.912	4294360.166	7330	04-Nov-13	11042013-002.SSF	157867.6699	14068
722218.939	4294360.027	7041	04-Nov-13	11042013-002.SSF	157868.6152	14069
722218.941	4294359.956	6818	04-Nov-13	11042013-002.SSF	157869.6899	14070
722218.944	4294359.9	6610	04-Nov-13	11042013-002.SSF	157870.6221	14071
722218.968	4294359.85	6815	04-Nov-13	11042013-002.SSF	157871.7241	14072
722218.964	4294359.853	6803	04-Nov-13	11042013-002.SSF	157872.668	14073
722219.036	4294359.85	6744	04-Nov-13	11042013-002.SSF	157873.7388	14074
722219.028	4294359.836	6749	04-Nov-13	11042013-002.SSF	157874.6851	14075
722219.008	4294359.805	6961	04-Nov-13	11042013-002.SSF	157875.7949	14076
722219.082	4294359.508	6885	04-Nov-13	11042013-002.SSF	157876.668	14077
722219.104	4294359.291	7188	04-Nov-13	11042013-002.SSF	157877.7139	14078
722219.287	4294359.478	7433	04-Nov-13	11042013-002.SSF	157878.7158	14079
722219.38	4294359.68	6588	04-Nov-13	11042013-002.SSF	157879.7178	14080
722219.387	4294359.712	6968	04-Nov-13	11042013-002.SSF	157880.6421	14081
722219.537	4294359.681	6994	04-Nov-13	11042013-002.SSF	157881.687	14082
722218.532	4294360.159	6421	04-Nov-13	11042013-002.SSF	157891.7158	14083
722218.677	4294359.672	6687	04-Nov-13	11042013-002.SSF	157892.6758	14084
722219.158	4294358.872	6769	04-Nov-13	11042013-002.SSF	157893.7061	14085

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722220.324	4294357.968	6223	04-Nov-13	11042013-002.SSF	157895.748	14087
722221.12	4294357.847	6095	04-Nov-13	11042013-002.SSF	157896.6201	14088
722222.069	4294357.346	5926	04-Nov-13	11042013-002.SSF	157897.7568	14089
722222.806	4294356.737	5673	04-Nov-13	11042013-002.SSF	157898.6582	14090
722223.721	4294355.938	5756	04-Nov-13	11042013-002.SSF	157899.6851	14091
722224.254	4294355.207	6215	04-Nov-13	11042013-002.SSF	157900.6021	14092
722224.42	4294354.374	6278	04-Nov-13	11042013-002.SSF	157901.6699	14093
722224.58	4294354.039	6621	04-Nov-13	11042013-002.SSF	157902.5439	14094
722224.698	4294353.997	7369	04-Nov-13	11042013-002.SSF	157903.7148	14095
722224.859	4294353.628	8038	04-Nov-13	11042013-002.SSF	157904.6138	14096
722225.059	4294353.197	8136	04-Nov-13	11042013-002.SSF	157905.6821	14097
722225.152	4294352.963	8439	04-Nov-13	11042013-002.SSF	157906.564	14098
722225.214	4294352.737	7814	04-Nov-13	11042013-002.SSF	157907.6372	14099
722225.246	4294352.629	7793	04-Nov-13	11042013-002.SSF	157908.5601	14100
722225.308	4294352.573	7451	04-Nov-13	11042013-002.SSF	157909.7271	14101
722225.337	4294352.525	7941	04-Nov-13	11042013-002.SSF	157910.5879	14102
722225.516	4294352.669	7279	04-Nov-13	11042013-002.SSF	157911.7031	14103
722225.665	4294352.814	7777	04-Nov-13	11042013-002.SSF	157912.5972	14104
722225.7	4294352.822	7524	04-Nov-13	11042013-002.SSF	157913.7471	14105
722225.694	4294352.783	7622	04-Nov-13	11042013-002.SSF	157914.5981	14106
722225.602	4294352.711	7400	04-Nov-13	11042013-002.SSF	157915.7422	14107
722225.522	4294352.675	7425	04-Nov-13	11042013-002.SSF	157916.687	14108
722225.449	4294352.623	7604	04-Nov-13	11042013-002.SSF	157917.7822	14109
722225.417	4294352.575	7870	04-Nov-13	11042013-002.SSF	157918.6392	14110
722225.494	4294352.534	7081	04-Nov-13	11042013-002.SSF	157919.6929	14111
722225.698	4294352.564	6826	04-Nov-13	11042013-002.SSF	157920.5898	14112
722225.942	4294352.633	7117	04-Nov-13	11042013-002.SSF	157921.688	14113
722226.03	4294352.628	7348	04-Nov-13	11042013-002.SSF	157922.5908	14114
722226.088	4294352.598	6781	04-Nov-13	11042013-002.SSF	157923.645	14115
722226.36	4294352.711	7039	04-Nov-13	11042013-002.SSF	157924.5942	14116
722226.562	4294352.914	6869	04-Nov-13	11042013-002.SSF	157925.6821	14117
722226.574	4294353.043	6774	04-Nov-13	11042013-002.SSF	157926.564	14118
722226.547	4294353.093	7140	04-Nov-13	11042013-002.SSF	157927.6719	14119
722226.587	4294353.124	7038	04-Nov-13	11042013-002.SSF	157928.5659	14120
722226.945	4294353.367	6772	04-Nov-13	11042013-002.SSF	157929.667	14121
722227.305	4294353.438	7026	04-Nov-13	11042013-002.SSF	157930.5918	14122
722227.552	4294353.417	6967	04-Nov-13	11042013-002.SSF	157931.7622	14123
722227.757	4294353.455	7181	04-Nov-13	11042013-002.SSF	157932.6509	14124
722228.109	4294353.566	6979	04-Nov-13	11042013-002.SSF	157933.7119	14125
722228.249	4294353.51	7766	04-Nov-13	11042013-002.SSF	157934.6548	14126
722228.313	4294353.403	7751	04-Nov-13	11042013-002.SSF	157935.7642	14127
722228.477	4294353.477	7727	04-Nov-13	11042013-002.SSF	157936.6172	14128
722228.553	4294353.47	7931	04-Nov-13	11042013-002.SSF	157937.7788	14129
722228.541	4294353.397	7551	04-Nov-13	11042013-002.SSF	157938.6641	14130
722228.559	4294353.345	7345	04-Nov-13	11042013-002.SSF	157939.77	14131
722228.635	4294353.19	7701	04-Nov-13	11042013-002.SSF	157940.6221	14132

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722228.756	4294353.153	7707	04-Nov-13	11042013-002.SSF	157941.6611	14133
722228.719	4294353.382	7455	04-Nov-13	11042013-002.SSF	157942.623	14134
722228.705	4294353.546	7576	04-Nov-13	11042013-002.SSF	157943.668	14135
722228.646	4294353.513	8086	04-Nov-13	11042013-002.SSF	157944.623	14136
722228.501	4294353.379	7908	04-Nov-13	11042013-002.SSF	157945.6851	14137
722228.376	4294353.228	7396	04-Nov-13	11042013-002.SSF	157946.6831	14138
722228.255	4294353.086	7572	04-Nov-13	11042013-002.SSF	157947.6841	14139
722228.162	4294353.024	8212	04-Nov-13	11042013-002.SSF	157948.584	14140
722228.065	4294352.999	7829	04-Nov-13	11042013-002.SSF	157949.6362	14141
722228.014	4294352.992	8079	04-Nov-13	11042013-002.SSF	157950.5781	14142
722227.948	4294352.972	7912	04-Nov-13	11042013-002.SSF	157951.6812	14143
722227.854	4294352.904	7818	04-Nov-13	11042013-002.SSF	157952.6431	14144
722227.798	4294352.902	7667	04-Nov-13	11042013-002.SSF	157953.6968	14145
722227.763	4294352.882	7718	04-Nov-13	11042013-002.SSF	157954.584	14146
722227.752	4294352.877	7409	04-Nov-13	11042013-002.SSF	157955.6929	14147
722227.748	4294352.912	7235	04-Nov-13	11042013-002.SSF	157956.6392	14148
722227.725	4294352.951	7812	04-Nov-13	11042013-002.SSF	157957.7168	14149
722227.71	4294352.982	8189	04-Nov-13	11042013-002.SSF	157958.6328	14150
722227.69	4294353.017	7996	04-Nov-13	11042013-002.SSF	157959.6821	14151
722227.418	4294353.117	7798	04-Nov-13	11042013-002.SSF	157960.5918	14152
722226.781	4294353.461	7769	04-Nov-13	11042013-002.SSF	157961.6768	14153
722226.496	4294353.643	7730	04-Nov-13	11042013-002.SSF	157962.6558	14154
722226.271	4294353.582	7835	04-Nov-13	11042013-002.SSF	157963.6958	14155
722226.111	4294353.438	7520	04-Nov-13	11042013-002.SSF	157964.5649	14156
722225.997	4294353.212	7927	04-Nov-13	11042013-002.SSF	157965.6958	14157
722225.998	4294353.017	7751	04-Nov-13	11042013-002.SSF	157966.6099	14158
722226	4294352.761	7675	04-Nov-13	11042013-002.SSF	157967.6792	14159
722226.068	4294352.704	8127	04-Nov-13	11042013-002.SSF	157968.5771	14160
722226.114	4294352.865	7954	04-Nov-13	11042013-002.SSF	157969.6001	14161
722225.988	4294353.034	7751	04-Nov-13	11042013-002.SSF	157970.5859	14162
722225.938	4294353.021	7337	04-Nov-13	11042013-002.SSF	157971.7002	14163
722226.246	4294352.714	7555	04-Nov-13	11042013-002.SSF	157972.6021	14164
722226.843	4294352.302	7617	04-Nov-13	11042013-002.SSF	157973.6631	14165
722228.163	4294351.216	8306	04-Nov-13	11042013-002.SSF	157975.6919	14166
722228.849	4294350.661	7829	04-Nov-13	11042013-002.SSF	157976.645	14167
722229.521	4294349.926	7794	04-Nov-13	11042013-002.SSF	157977.6621	14168
722230.22	4294349.22	7744	04-Nov-13	11042013-002.SSF	157978.666	14169
722230.607	4294348.74	7708	04-Nov-13	11042013-002.SSF	157979.7061	14170
722230.799	4294348.526	7576	04-Nov-13	11042013-002.SSF	157980.604	14171
722231.041	4294348.18	7734	04-Nov-13	11042013-002.SSF	157981.6909	14172
722231.096	4294347.693	7582	04-Nov-13	11042013-002.SSF	157982.6782	14173
722231.203	4294347.201	7542	04-Nov-13	11042013-002.SSF	157983.7368	14174
722231.426	4294346.688	7565	04-Nov-13	11042013-002.SSF	157984.5972	14175
722231.722	4294346.241	7113	04-Nov-13	11042013-002.SSF	157985.6958	14176
722231.933	4294345.776	8171	04-Nov-13	11042013-002.SSF	157986.6001	14177
722232.017	4294345.272	8136	04-Nov-13	11042013-002.SSF	157987.7051	14178
722232.003	4294344.913	7666	04-Nov-13	11042013-002.SSF	157988.5859	14179

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722232.095	4294344.575	7897	04-Nov-13	11042013-002.SSF	157989.6729	14180
722232.201	4294344.441	8124	04-Nov-13	11042013-002.SSF	157990.52	14181
722231.97	4294344.326	7840	04-Nov-13	11042013-002.SSF	157991.6538	14182
722231.467	4294343.873	7320	04-Nov-13	11042013-002.SSF	157992.4971	14183
722230.729	4294342.841	6997	04-Nov-13	11042013-002.SSF	157993.6602	14184
722230.579	4294342.378	6958	04-Nov-13	11042013-002.SSF	157994.5552	14185
722230.589	4294342.24	6719	04-Nov-13	11042013-002.SSF	157995.7061	14186
722230.596	4294342.161	6532	04-Nov-13	11042013-002.SSF	157996.5718	14187
722230.642	4294342.056	6862	04-Nov-13	11042013-002.SSF	157997.6699	14188
722230.726	4294342.034	6927	04-Nov-13	11042013-002.SSF	157998.626	14189
722230.868	4294342.063	7039	04-Nov-13	11042013-002.SSF	157999.7251	14190
722231.027	4294342.125	6562	04-Nov-13	11042013-002.SSF	158000.5898	14191
722231.158	4294342.158	6608	04-Nov-13	11042013-002.SSF	158001.6191	14192
722231.247	4294342.171	6852	04-Nov-13	11042013-002.SSF	158002.6011	14193
722231.373	4294342.192	6502	04-Nov-13	11042013-002.SSF	158003.6958	14194
722231.459	4294342.179	6949	04-Nov-13	11042013-002.SSF	158004.5571	14195
722231.577	4294342.145	6789	04-Nov-13	11042013-002.SSF	158005.6079	14196
722231.704	4294342.18	6466	04-Nov-13	11042013-002.SSF	158006.5	14197
722231.62	4294342.196	6765	04-Nov-13	11042013-002.SSF	158007.6738	14198
722231.453	4294341.961	7112	04-Nov-13	11042013-002.SSF	158008.5562	14199
722231.282	4294341.508	6956	04-Nov-13	11042013-002.SSF	158009.6558	14200
722231.155	4294341.027	6830	04-Nov-13	11042013-002.SSF	158010.604	14201
722230.835	4294340.82	7164	04-Nov-13	11042013-002.SSF	158011.7358	14202
722230.406	4294340.928	6887	04-Nov-13	11042013-002.SSF	158012.5732	14203
722230.196	4294341.312	6904	04-Nov-13	11042013-002.SSF	158013.6572	14204
722230.145	4294341.645	6283	04-Nov-13	11042013-002.SSF	158014.5752	14205
722230.337	4294341.933	6722	04-Nov-13	11042013-002.SSF	158015.6138	14206
722230.456	4294342.182	6503	04-Nov-13	11042013-002.SSF	158016.6001	14207
722230.576	4294342.29	6838	04-Nov-13	11042013-002.SSF	158017.6768	14208
722230.668	4294342.374	6396	04-Nov-13	11042013-002.SSF	158018.54	14209
722230.69	4294342.606	6718	04-Nov-13	11042013-002.SSF	158019.6299	14210
722230.576	4294343.169	7574	04-Nov-13	11042013-002.SSF	158020.585	14211
722230.518	4294343.855	7717	04-Nov-13	11042013-002.SSF	158021.6411	14212
722230.488	4294344.447	7648	04-Nov-13	11042013-002.SSF	158022.5811	14213
722230.592	4294345.329	8015	04-Nov-13	11042013-002.SSF	158023.7241	14214
722230.525	4294346.24	7845	04-Nov-13	11042013-002.SSF	158024.583	14215
722230.319	4294347.262	7856	04-Nov-13	11042013-002.SSF	158025.5972	14216
722230.056	4294348.117	7951	04-Nov-13	11042013-002.SSF	158026.5342	14217
722229.713	4294349.14	8057	04-Nov-13	11042013-002.SSF	158027.6069	14218
722229.514	4294349.353	7877	04-Nov-13	11042013-002.SSF	158028.5298	14219
722229.202	4294349.298	7663	04-Nov-13	11042013-002.SSF	158029.5518	14220
722228.575	4294349.995	7040	04-Nov-13	11042013-002.SSF	158030.5869	14221
722227.945	4294351.072	6960	04-Nov-13	11042013-002.SSF	158031.6792	14222
722227.544	4294351.697	6720	04-Nov-13	11042013-002.SSF	158032.5742	14223
722227.057	4294352.068	6622	04-Nov-13	11042013-002.SSF	158033.6211	14224
722226.723	4294352.269	6882	04-Nov-13	11042013-002.SSF	158034.6079	14225
722226.547	4294352.499	7074	04-Nov-13	11042013-002.SSF	158035.668	14226

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722226.34	4294352.486	7286	04-Nov-13	11042013-002.SSF	158036.5239	14227
722225.896	4294352.356	7623	04-Nov-13	11042013-002.SSF	158037.6548	14228
722225.568	4294352.156	7843	04-Nov-13	11042013-002.SSF	158038.6011	14229
722225.411	4294351.702	7607	04-Nov-13	11042013-002.SSF	158039.6582	14230
722225.443	4294351.202	7931	04-Nov-13	11042013-002.SSF	158040.4941	14231
722225.601	4294350.196	7971	04-Nov-13	11042013-002.SSF	158041.5698	14232
722225.626	4294349.308	7491	04-Nov-13	11042013-002.SSF	158042.5459	14233
722225.5	4294348.867	7161	04-Nov-13	11042013-002.SSF	158043.6118	14234
722225.344	4294348.643	7245	04-Nov-13	11042013-002.SSF	158044.5039	14235
722225.511	4294347.501	6663	04-Nov-13	11042013-002.SSF	158045.6948	14236
722225.826	4294346.866	7325	04-Nov-13	11042013-002.SSF	158046.562	14237
722225.968	4294346.399	7705	04-Nov-13	11042013-002.SSF	158047.6348	14238
722226.069	4294345.908	6847	04-Nov-13	11042013-002.SSF	158048.562	14239
722226.307	4294345.514	6663	04-Nov-13	11042013-002.SSF	158049.6338	14240
722226.509	4294345.285	6598	04-Nov-13	11042013-002.SSF	158050.604	14241
722226.533	4294345.055	6554	04-Nov-13	11042013-002.SSF	158051.6509	14242
722226.481	4294344.927	6866	04-Nov-13	11042013-002.SSF	158052.6489	14243
722226.52	4294344.874	6817	04-Nov-13	11042013-002.SSF	158053.6802	14244
722226.562	4294344.855	6744	04-Nov-13	11042013-002.SSF	158054.5698	14245
722226.807	4294344.877	6914	04-Nov-13	11042013-002.SSF	158055.6299	14246
722226.771	4294344.698	7151	04-Nov-13	11042013-002.SSF	158056.6362	14247
722226.311	4294344.483	7180	04-Nov-13	11042013-002.SSF	158057.6401	14248
722226.122	4294344.68	6791	04-Nov-13	11042013-002.SSF	158058.6372	14249
722226.181	4294344.957	7225	04-Nov-13	11042013-002.SSF	158059.6289	14250
722226.182	4294345.261	7356	04-Nov-13	11042013-002.SSF	158060.6079	14251
722226.357	4294345.41	7288	04-Nov-13	11042013-002.SSF	158061.709	14252
722226.374	4294345.527	7722	04-Nov-13	11042013-002.SSF	158062.5601	14253
722226.101	4294346.11	7508	04-Nov-13	11042013-002.SSF	158063.7061	14254
722226.037	4294346.644	7126	04-Nov-13	11042013-002.SSF	158064.5649	14255
722226.187	4294347.224	7893	04-Nov-13	11042013-002.SSF	158065.6309	14256
722226.503	4294347.532	7852	04-Nov-13	11042013-002.SSF	158066.5752	14257
722226.731	4294347.994	8527	04-Nov-13	11042013-002.SSF	158067.6738	14258
722226.608	4294348.557	8756	04-Nov-13	11042013-002.SSF	158068.5742	14259
722226.438	4294349.287	8435	04-Nov-13	11042013-002.SSF	158069.6182	14260
722226.287	4294349.878	8060	04-Nov-13	11042013-002.SSF	158070.6079	14261
722225.896	4294350.752	7203	04-Nov-13	11042013-002.SSF	158071.7119	14262
722225.56	4294351.356	7202	04-Nov-13	11042013-002.SSF	158072.6118	14263
722224.982	4294351.7	7021	04-Nov-13	11042013-002.SSF	158073.6582	14264
722224.814	4294351.577	7001	04-Nov-13	11042013-002.SSF	158074.5952	14265
722224.592	4294351.227	6646	04-Nov-13	11042013-002.SSF	158075.7349	14266
722224.256	4294351.062	6513	04-Nov-13	11042013-002.SSF	158076.623	14267
722223.956	4294351.067	6356	04-Nov-13	11042013-002.SSF	158077.6709	14268
722223.847	4294351.074	6605	04-Nov-13	11042013-002.SSF	158078.5679	14269
722223.618	4294350.861	7480	04-Nov-13	11042013-002.SSF	158079.731	14270
722223.613	4294350.479	7170	04-Nov-13	11042013-002.SSF	158080.6001	14271
722223.687	4294349.972	7408	04-Nov-13	11042013-002.SSF	158081.6968	14272
722223.745	4294349.61	7204	04-Nov-13	11042013-002.SSF	158082.583	14273

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722223.881	4294349.051	7352	04-Nov-13	11042013-002.SSF	158083.7192	14274
722224.016	4294348.607	7076	04-Nov-13	11042013-002.SSF	158084.584	14275
722224.184	4294348.021	7085	04-Nov-13	11042013-002.SSF	158085.603	14276
722224.476	4294346.841	6766	04-Nov-13	11042013-002.SSF	158087.585	14278
722224.668	4294345.826	6828	04-Nov-13	11042013-002.SSF	158088.564	14279
722224.467	4294344.81	7036	04-Nov-13	11042013-002.SSF	158089.6479	14280
722224.219	4294343.914	6950	04-Nov-13	11042013-002.SSF	158090.5962	14281
722224.135	4294343.371	7067	04-Nov-13	11042013-002.SSF	158091.6479	14282
722224.25	4294343.488	6870	04-Nov-13	11042013-002.SSF	158092.5288	14283
722224.709	4294343.7	7232	04-Nov-13	11042013-002.SSF	158093.6958	14284
722225.101	4294343.628	7128	04-Nov-13	11042013-002.SSF	158094.5791	14285
722225.316	4294343.393	6679	04-Nov-13	11042013-002.SSF	158095.5942	14286
722225.536	4294343.399	6359	04-Nov-13	11042013-002.SSF	158096.5771	14287
722225.66	4294343.371	5850	04-Nov-13	11042013-002.SSF	158097.647	14288
722225.583	4294343.157	6148	04-Nov-13	11042013-002.SSF	158098.5811	14289
722225.542	4294342.988	6233	04-Nov-13	11042013-002.SSF	158099.6729	14290
722225.41	4294343.1	6708	04-Nov-13	11042013-002.SSF	158100.5449	14291
722224.994	4294343.41	6563	04-Nov-13	11042013-002.SSF	158101.7051	14292
722224.881	4294343.392	6954	04-Nov-13	11042013-002.SSF	158102.5498	14293
722224.941	4294343.203	6657	04-Nov-13	11042013-002.SSF	158103.7261	14294
722224.956	4294343.062	6549	04-Nov-13	11042013-002.SSF	158104.5308	14295
722224.997	4294342.932	6924	04-Nov-13	11042013-002.SSF	158105.5762	14296
722225.033	4294342.858	7217	04-Nov-13	11042013-002.SSF	158106.4761	14297
722224.952	4294342.796	7359	04-Nov-13	11042013-002.SSF	158107.6309	14298
722224.882	4294343.101	7559	04-Nov-13	11042013-002.SSF	158108.541	14299
722224.835	4294343.366	6909	04-Nov-13	11042013-002.SSF	158109.583	14300
722224.845	4294343.387	6908	04-Nov-13	11042013-002.SSF	158110.5962	14301
722224.845	4294343.465	6691	04-Nov-13	11042013-002.SSF	158111.6558	14302
722224.949	4294343.414	6816	04-Nov-13	11042013-002.SSF	158112.5991	14303
722225.101	4294343.274	6909	04-Nov-13	11042013-002.SSF	158113.6309	14304
722225.118	4294343.188	7058	04-Nov-13	11042013-002.SSF	158114.541	14305
722225.199	4294343.05	7615	04-Nov-13	11042013-002.SSF	158115.708	14306
722225.263	4294342.877	7418	04-Nov-13	11042013-002.SSF	158116.561	14307
722225.278	4294342.831	6925	04-Nov-13	11042013-002.SSF	158117.6411	14308
722225.254	4294342.955	7128	04-Nov-13	11042013-002.SSF	158118.564	14309
722225.276	4294343.146	7549	04-Nov-13	11042013-002.SSF	158119.6479	14310
722225.29	4294343.294	7252	04-Nov-13	11042013-002.SSF	158120.5352	14311
722225.293	4294343.402	6989	04-Nov-13	11042013-002.SSF	158121.6348	14312
722225.258	4294343.462	7089	04-Nov-13	11042013-002.SSF	158122.5762	14313
722225.236	4294343.485	7535	04-Nov-13	11042013-002.SSF	158123.6382	14314
722225.232	4294343.519	6968	04-Nov-13	11042013-002.SSF	158124.5771	14315
722225.223	4294343.581	6754	04-Nov-13	11042013-002.SSF	158125.6079	14316
722225.161	4294343.705	6687	04-Nov-13	11042013-002.SSF	158126.5439	14317
722225.123	4294343.862	6648	04-Nov-13	11042013-002.SSF	158127.6128	14318
722225.136	4294343.898	6192	04-Nov-13	11042013-002.SSF	158128.562	14319
722225.096	4294343.918	6618	04-Nov-13	11042013-002.SSF	158129.6172	14320
722224.934	4294343.838	7060	04-Nov-13	11042013-002.SSF	158130.5952	14321

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722224.777	4294343.775	6288	04-Nov-13	11042013-002.SSF	158131.6782	14322
722224.734	4294343.714	6815	04-Nov-13	11042013-002.SSF	158132.5889	14323
722224.713	4294343.5	6796	04-Nov-13	11042013-002.SSF	158133.6348	14324
722224.674	4294343.307	6650	04-Nov-13	11042013-002.SSF	158134.5942	14325
722224.631	4294343.199	6553	04-Nov-13	11042013-002.SSF	158135.5791	14326
722224.598	4294343.157	6941	04-Nov-13	11042013-002.SSF	158136.522	14327
722224.557	4294343.118	6424	04-Nov-13	11042013-002.SSF	158137.5669	14328
722224.512	4294343.086	6471	04-Nov-13	11042013-002.SSF	158138.4819	14329
722224.462	4294343.052	6655	04-Nov-13	11042013-002.SSF	158139.6602	14330
722224.433	4294342.98	6653	04-Nov-13	11042013-002.SSF	158140.5879	14331
722224.397	4294342.958	6412	04-Nov-13	11042013-002.SSF	158141.6558	14332
722224.388	4294342.984	6487	04-Nov-13	11042013-002.SSF	158142.5571	14333
722224.388	4294343.043	6844	04-Nov-13	11042013-002.SSF	158143.6919	14334
722224.408	4294343.063	6662	04-Nov-13	11042013-002.SSF	158144.625	14335
722224.437	4294343.007	6185	04-Nov-13	11042013-002.SSF	158145.6372	14336
722224.428	4294342.968	6344	04-Nov-13	11042013-002.SSF	158146.6221	14337
722224.33	4294342.96	6036	04-Nov-13	11042013-002.SSF	158147.6279	14338
722224.269	4294343.299	6230	04-Nov-13	11042013-002.SSF	158148.5649	14339
722224.224	4294343.523	6699	04-Nov-13	11042013-002.SSF	158149.626	14340
722224.184	4294343.512	6528	04-Nov-13	11042013-002.SSF	158150.4912	14341
722224.1	4294343.543	6709	04-Nov-13	11042013-002.SSF	158151.626	14342
722223.993	4294343.665	6984	04-Nov-13	11042013-002.SSF	158152.4858	14343
722223.889	4294343.874	6321	04-Nov-13	11042013-002.SSF	158153.6392	14344
722223.866	4294343.976	6600	04-Nov-13	11042013-002.SSF	158154.4751	14345
722223.91	4294343.931	6352	04-Nov-13	11042013-002.SSF	158155.6001	14346
722223.98	4294343.794	6926	04-Nov-13	11042013-002.SSF	158156.5288	14347
722224.06	4294343.602	6738	04-Nov-13	11042013-002.SSF	158157.6851	14348
722224.106	4294343.497	6460	04-Nov-13	11042013-002.SSF	158158.5098	14349
722224.153	4294343.46	6693	04-Nov-13	11042013-002.SSF	158159.5889	14350
722224.178	4294343.458	6465	04-Nov-13	11042013-002.SSF	158160.5078	14351
722224.195	4294343.469	6734	04-Nov-13	11042013-002.SSF	158161.5889	14352
722224.195	4294343.485	6945	04-Nov-13	11042013-002.SSF	158162.5752	14353
722224.145	4294343.343	6817	04-Nov-13	11042013-002.SSF	158163.626	14354
722224.133	4294343.187	7157	04-Nov-13	11042013-002.SSF	158164.5132	14355
722224.172	4294343.027	7250	04-Nov-13	11042013-002.SSF	158165.6011	14356
722224.126	4294342.935	7228	04-Nov-13	11042013-002.SSF	158166.5542	14357
722224.11	4294342.944	7118	04-Nov-13	11042013-002.SSF	158167.6309	14358
722224.207	4294343.1	6749	04-Nov-13	11042013-002.SSF	158168.5239	14359
722224.265	4294343.102	6684	04-Nov-13	11042013-002.SSF	158169.646	14360
722224.206	4294342.975	6467	04-Nov-13	11042013-002.SSF	158170.4761	14361
722224.108	4294342.832	6607	04-Nov-13	11042013-002.SSF	158171.5928	14362
722224.043	4294342.753	6559	04-Nov-13	11042013-002.SSF	158172.4932	14363
722223.966	4294342.636	6127	04-Nov-13	11042013-002.SSF	158173.5508	14364
722223.949	4294342.565	6566	04-Nov-13	11042013-002.SSF	158174.5249	14365
722224.016	4294342.817	6791	04-Nov-13	11042013-002.SSF	158175.5352	14366
722224.097	4294343.222	6737	04-Nov-13	11042013-002.SSF	158176.5098	14367
722224.153	4294343.559	6257	04-Nov-13	11042013-002.SSF	158177.6108	14368

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722224.19	4294343.765	6459	04-Nov-13	11042013-002.SSF	158178.5181	14369
722224.255	4294344.059	6888	04-Nov-13	11042013-002.SSF	158179.626	14370
722224.307	4294344.348	6822	04-Nov-13	11042013-002.SSF	158180.5562	14371
722224.348	4294344.601	6545	04-Nov-13	11042013-002.SSF	158181.5952	14372
722224.355	4294344.796	6599	04-Nov-13	11042013-002.SSF	158182.5288	14373
722224.351	4294345.01	6397	04-Nov-13	11042013-002.SSF	158183.6602	14374
722224.35	4294345.089	6275	04-Nov-13	11042013-002.SSF	158184.5	14375
722224.346	4294345.183	6702	04-Nov-13	11042013-002.SSF	158185.6182	14376
722224.343	4294345.298	6980	04-Nov-13	11042013-002.SSF	158186.5161	14377
722224.355	4294345.448	6221	04-Nov-13	11042013-002.SSF	158187.6128	14378
722224.364	4294345.526	6634	04-Nov-13	11042013-002.SSF	158188.5029	14379
722224.359	4294345.581	6574	04-Nov-13	11042013-002.SSF	158189.645	14380
722224.356	4294345.607	7470	04-Nov-13	11042013-002.SSF	158190.4429	14381
722224.335	4294345.648	7224	04-Nov-13	11042013-002.SSF	158191.604	14382
722224.316	4294345.675	6711	04-Nov-13	11042013-002.SSF	158192.4619	14383
722224.327	4294345.749	6797	04-Nov-13	11042013-002.SSF	158193.6138	14384
722224.347	4294345.774	7116	04-Nov-13	11042013-002.SSF	158194.4648	14385
722224.275	4294345.806	6822	04-Nov-13	11042013-002.SSF	158195.6338	14386
722224.217	4294345.838	6410	04-Nov-13	11042013-002.SSF	158196.5649	14387
722224.238	4294345.805	6808	04-Nov-13	11042013-002.SSF	158197.5972	14388
722224.272	4294345.745	6769	04-Nov-13	11042013-002.SSF	158198.5361	14389
722224.307	4294345.608	6988	04-Nov-13	11042013-002.SSF	158199.7192	14390
722224.333	4294345.478	6788	04-Nov-13	11042013-002.SSF	158200.5718	14391
722224.399	4294344.932	6443	04-Nov-13	11042013-002.SSF	158201.6152	14392
722224.473	4294344.365	6362	04-Nov-13	11042013-002.SSF	158202.5698	14393
722224.512	4294343.834	6625	04-Nov-13	11042013-002.SSF	158203.6069	14394
722224.53	4294343.404	6757	04-Nov-13	11042013-002.SSF	158204.521	14395
722224.588	4294343.088	6718	04-Nov-13	11042013-002.SSF	158205.5908	14396
722224.606	4294342.908	6651	04-Nov-13	11042013-002.SSF	158206.561	14397
722224.59	4294342.736	6269	04-Nov-13	11042013-002.SSF	158207.5708	14398
722224.566	4294342.599	6578	04-Nov-13	11042013-002.SSF	158208.5122	14399
722224.524	4294342.477	6978	04-Nov-13	11042013-002.SSF	158209.5732	14400
722224.479	4294342.395	6872	04-Nov-13	11042013-002.SSF	158210.4922	14401
722224.41	4294342.308	6716	04-Nov-13	11042013-002.SSF	158211.5718	14402
722224.345	4294342.262	6716	04-Nov-13	11042013-002.SSF	158212.5098	14403
722224.282	4294342.253	6752	04-Nov-13	11042013-002.SSF	158213.606	14404
722224.251	4294342.265	6333	04-Nov-13	11042013-002.SSF	158214.5459	14405
722224.195	4294342.202	6180	04-Nov-13	11042013-002.SSF	158215.5962	14406
722224.117	4294342.093	6753	04-Nov-13	11042013-002.SSF	158216.5352	14407
722224.039	4294341.997	6604	04-Nov-13	11042013-002.SSF	158217.5918	14408
722223.989	4294341.91	6279	04-Nov-13	11042013-002.SSF	158218.543	14409
722223.933	4294341.794	6465	04-Nov-13	11042013-002.SSF	158219.604	14410
722223.877	4294341.689	7124	04-Nov-13	11042013-002.SSF	158220.5718	14411
722223.829	4294341.604	7007	04-Nov-13	11042013-002.SSF	158221.5688	14412
722223.824	4294341.508	6619	04-Nov-13	11042013-002.SSF	158222.5259	14413
722223.822	4294341.441	6843	04-Nov-13	11042013-002.SSF	158223.5688	14414
722223.8	4294341.414	7066	04-Nov-13	11042013-002.SSF	158224.5469	14415

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722223.764	4294341.408	7282	04-Nov-13	11042013-002.SSF	158225.5869	14416
722223.707	4294341.426	6804	04-Nov-13	11042013-002.SSF	158226.5278	14417
722223.621	4294341.42	6699	04-Nov-13	11042013-002.SSF	158227.6079	14418
722223.582	4294341.392	6566	04-Nov-13	11042013-002.SSF	158228.5059	14419
722223.559	4294341.343	6491	04-Nov-13	11042013-002.SSF	158229.6089	14420
722223.537	4294341.316	6681	04-Nov-13	11042013-002.SSF	158230.585	14421
722223.531	4294341.285	6638	04-Nov-13	11042013-002.SSF	158231.644	14422
722223.526	4294341.274	6786	04-Nov-13	11042013-002.SSF	158232.499	14423
722223.524	4294341.273	6690	04-Nov-13	11042013-002.SSF	158233.6362	14424
722223.532	4294341.263	6493	04-Nov-13	11042013-002.SSF	158234.5449	14425
722223.543	4294341.261	7417	04-Nov-13	11042013-002.SSF	158235.5991	14426
722223.557	4294341.252	6932	04-Nov-13	11042013-002.SSF	158236.4888	14427
722223.598	4294341.226	6742	04-Nov-13	11042013-002.SSF	158237.5908	14428
722223.625	4294341.213	6672	04-Nov-13	11042013-002.SSF	158238.5542	14429
722223.624	4294341.192	6265	04-Nov-13	11042013-002.SSF	158239.5571	14430
722223.612	4294341.124	6614	04-Nov-13	11042013-002.SSF	158240.5132	14431
722223.592	4294341.076	6585	04-Nov-13	11042013-002.SSF	158241.6021	14432
722223.572	4294341.081	7132	04-Nov-13	11042013-002.SSF	158242.439	14433
722223.571	4294341.083	7319	04-Nov-13	11042013-002.SSF	158243.6152	14434
722223.576	4294341.079	6997	04-Nov-13	11042013-002.SSF	158244.4492	14435
722223.574	4294341.033	7220	04-Nov-13	11042013-002.SSF	158245.5879	14436
722223.574	4294341.003	7504	04-Nov-13	11042013-002.SSF	158246.4609	14437
722223.564	4294341.017	6996	04-Nov-13	11042013-002.SSF	158247.5732	14438
722223.522	4294341.089	6957	04-Nov-13	11042013-002.SSF	158248.4648	14439
722223.416	4294341.231	6763	04-Nov-13	11042013-002.SSF	158249.5718	14440
722223.42	4294341.325	7262	04-Nov-13	11042013-002.SSF	158250.5361	14441
722223.553	4294341.329	6912	04-Nov-13	11042013-002.SSF	158251.5732	14442
722223.696	4294341.246	7134	04-Nov-13	11042013-002.SSF	158252.5132	14443
722223.837	4294341.162	6947	04-Nov-13	11042013-002.SSF	158253.6489	14444
722223.876	4294341.129	6495	04-Nov-13	11042013-002.SSF	158254.4922	14445
722223.88	4294341.113	6481	04-Nov-13	11042013-002.SSF	158255.603	14446
722223.893	4294341.072	6578	04-Nov-13	11042013-002.SSF	158256.4482	14447
722223.918	4294341.052	6370	04-Nov-13	11042013-002.SSF	158257.606	14448
722223.89	4294341.064	6853	04-Nov-13	11042013-002.SSF	158258.4512	14449
722223.813	4294341.017	6757	04-Nov-13	11042013-002.SSF	158259.6079	14450
722223.759	4294340.982	6786	04-Nov-13	11042013-002.SSF	158260.5059	14451
722223.68	4294340.962	6974	04-Nov-13	11042013-002.SSF	158261.582	14452
722223.626	4294341	6743	04-Nov-13	11042013-002.SSF	158262.5322	14453
722223.581	4294341.077	6823	04-Nov-13	11042013-002.SSF	158263.5791	14454
722223.541	4294341.128	6380	04-Nov-13	11042013-002.SSF	158264.4668	14455
722223.542	4294341.133	6296	04-Nov-13	11042013-002.SSF	158265.5981	14456
722223.571	4294341.15	6331	04-Nov-13	11042013-002.SSF	158266.4888	14457
722223.573	4294341.155	5991	04-Nov-13	11042013-002.SSF	158267.582	14458
722223.581	4294341.205	6505	04-Nov-13	11042013-002.SSF	158268.4521	14459
722223.641	4294341.329	6479	04-Nov-13	11042013-002.SSF	158269.5112	14460
722223.68	4294341.369	6194	04-Nov-13	11042013-002.SSF	158270.498	14461
722223.672	4294341.391	6004	04-Nov-13	11042013-002.SSF	158271.5488	14462

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722223.643	4294341.407	6820	04-Nov-13	11042013-002.SSF	158272.499	14463
722223.62	4294341.385	6506	04-Nov-13	11042013-002.SSF	158273.605	14464
722223.606	4294341.384	7222	04-Nov-13	11042013-002.SSF	158274.4561	14465
722223.586	4294341.355	7317	04-Nov-13	11042013-002.SSF	158275.5942	14466
722223.597	4294341.307	7228	04-Nov-13	11042013-002.SSF	158276.4658	14467
722223.605	4294341.324	6931	04-Nov-13	11042013-002.SSF	158277.5449	14468
722223.591	4294341.362	6936	04-Nov-13	11042013-002.SSF	158278.4502	14469
722223.498	4294341.33	6796	04-Nov-13	11042013-002.SSF	158279.4971	14470
722223.367	4294341.251	6748	04-Nov-13	11042013-002.SSF	158280.498	14471
722223.257	4294341.297	6863	04-Nov-13	11042013-002.SSF	158281.562	14472
722223.1	4294341.351	6665	04-Nov-13	11042013-002.SSF	158282.5171	14473
722222.906	4294341.389	6809	04-Nov-13	11042013-002.SSF	158283.5791	14474
722222.783	4294341.591	6875	04-Nov-13	11042013-002.SSF	158284.4429	14475
722222.692	4294342.034	6514	04-Nov-13	11042013-002.SSF	158285.5498	14476
722222.717	4294342.432	6327	04-Nov-13	11042013-002.SSF	158286.5059	14477
722222.793	4294342.729	6326	04-Nov-13	11042013-002.SSF	158287.584	14478
722222.838	4294342.837	6348	04-Nov-13	11042013-002.SSF	158288.4722	14479
722222.907	4294342.945	6368	04-Nov-13	11042013-002.SSF	158289.5571	14480
722222.951	4294343.111	6717	04-Nov-13	11042013-002.SSF	158290.4019	14481
722222.948	4294343.36	6778	04-Nov-13	11042013-002.SSF	158291.5229	14482
722222.94	4294343.506	7218	04-Nov-13	11042013-002.SSF	158292.418	14483
722222.949	4294343.69	6842	04-Nov-13	11042013-002.SSF	158293.5098	14484
722222.937	4294343.778	6841	04-Nov-13	11042013-002.SSF	158294.437	14485
722222.922	4294343.791	6908	04-Nov-13	11042013-002.SSF	158295.4722	14486
722222.925	4294343.788	6601	04-Nov-13	11042013-002.SSF	158296.4678	14487
722222.928	4294343.758	6713	04-Nov-13	11042013-002.SSF	158297.5361	14488
722222.94	4294343.727	6378	04-Nov-13	11042013-002.SSF	158298.4878	14489
722222.982	4294343.728	7008	04-Nov-13	11042013-002.SSF	158299.5459	14490
722223.023	4294343.773	6874	04-Nov-13	11042013-002.SSF	158300.522	14491
722223.056	4294343.827	6776	04-Nov-13	11042013-002.SSF	158301.624	14492
722223.087	4294343.934	6707	04-Nov-13	11042013-002.SSF	158302.5249	14493
722223.129	4294344.107	6705	04-Nov-13	11042013-002.SSF	158303.6289	14494
722223.156	4294344.228	6809	04-Nov-13	11042013-002.SSF	158304.5278	14495
722223.193	4294344.363	7235	04-Nov-13	11042013-002.SSF	158305.6309	14496
722223.217	4294344.469	7324	04-Nov-13	11042013-002.SSF	158306.4829	14497
722223.249	4294344.522	6992	04-Nov-13	11042013-002.SSF	158307.5708	14498
722223.281	4294344.581	6903	04-Nov-13	11042013-002.SSF	158308.5659	14499
722223.338	4294344.695	6635	04-Nov-13	11042013-002.SSF	158309.646	14500
722223.381	4294344.807	7122	04-Nov-13	11042013-002.SSF	158310.5288	14501
722223.399	4294344.902	7419	04-Nov-13	11042013-002.SSF	158311.6182	14502
722223.389	4294344.873	7315	04-Nov-13	11042013-002.SSF	158312.4868	14503
722223.361	4294344.794	6950	04-Nov-13	11042013-002.SSF	158313.5381	14504
722223.34	4294344.732	6924	04-Nov-13	11042013-002.SSF	158314.4951	14505
722223.328	4294344.719	6460	04-Nov-13	11042013-002.SSF	158315.5278	14506
722223.33	4294344.694	6603	04-Nov-13	11042013-002.SSF	158316.4771	14507
722223.283	4294344.507	6902	04-Nov-13	11042013-002.SSF	158317.5298	14508
722223.191	4294344.315	7175	04-Nov-13	11042013-002.SSF	158318.4829	14509

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722223.116	4294344.145	6953	04-Nov-13	11042013-002.SSF	158319.5322	14510
722223.068	4294344.029	7398	04-Nov-13	11042013-002.SSF	158320.4941	14511
722222.992	4294343.812	7297	04-Nov-13	11042013-002.SSF	158321.561	14512
722222.936	4294343.557	7074	04-Nov-13	11042013-002.SSF	158322.4888	14513
722222.914	4294343.343	7091	04-Nov-13	11042013-002.SSF	158323.5918	14514
722222.91	4294343.218	7049	04-Nov-13	11042013-002.SSF	158324.418	14515
722222.898	4294343.082	6890	04-Nov-13	11042013-002.SSF	158325.561	14516
722222.903	4294343.008	6553	04-Nov-13	11042013-002.SSF	158326.4131	14517
722222.895	4294342.941	6551	04-Nov-13	11042013-002.SSF	158327.582	14518
722222.872	4294342.869	6617	04-Nov-13	11042013-002.SSF	158328.4878	14519
722222.888	4294342.827	6437	04-Nov-13	11042013-002.SSF	158329.4951	14520
722222.926	4294342.857	6606	04-Nov-13	11042013-002.SSF	158330.4932	14521
722222.871	4294342.923	6558	04-Nov-13	11042013-002.SSF	158331.5869	14522
722222.824	4294342.961	6659	04-Nov-13	11042013-002.SSF	158332.481	14523
722222.878	4294342.937	7390	04-Nov-13	11042013-002.SSF	158333.522	14524
722222.941	4294342.866	6842	04-Nov-13	11042013-002.SSF	158334.4912	14525
722222.934	4294342.781	6706	04-Nov-13	11042013-002.SSF	158335.563	14526
722222.887	4294342.708	6629	04-Nov-13	11042013-002.SSF	158336.4609	14527
722222.827	4294342.643	7209	04-Nov-13	11042013-002.SSF	158337.5942	14528
722222.795	4294342.608	6972	04-Nov-13	11042013-002.SSF	158338.4648	14529
722222.763	4294342.557	7102	04-Nov-13	11042013-002.SSF	158339.5332	14530
722222.734	4294342.505	7115	04-Nov-13	11042013-002.SSF	158340.499	14531
722222.705	4294342.454	6859	04-Nov-13	11042013-002.SSF	158341.5581	14532
722222.677	4294342.393	6641	04-Nov-13	11042013-002.SSF	158342.4629	14533
722222.64	4294342.301	6675	04-Nov-13	11042013-002.SSF	158343.5601	14534
722222.606	4294342.241	6417	04-Nov-13	11042013-002.SSF	158344.4741	14535
722222.577	4294342.21	6624	04-Nov-13	11042013-002.SSF	158345.5762	14536
722222.55	4294342.199	6734	04-Nov-13	11042013-002.SSF	158346.4951	14537
722222.529	4294342.189	6742	04-Nov-13	11042013-002.SSF	158347.5781	14538
722222.504	4294342.202	6680	04-Nov-13	11042013-002.SSF	158348.5239	14539
722222.436	4294342.212	6607	04-Nov-13	11042013-002.SSF	158349.6099	14540
722222.413	4294342.238	6604	04-Nov-13	11042013-002.SSF	158350.4268	14541
722222.427	4294342.284	7240	04-Nov-13	11042013-002.SSF	158351.5088	14542
722222.43	4294342.306	6907	04-Nov-13	11042013-002.SSF	158352.4829	14543
722222.414	4294342.332	6503	04-Nov-13	11042013-002.SSF	158353.521	14544
722222.437	4294342.395	7010	04-Nov-13	11042013-002.SSF	158354.5151	14545
722222.495	4294342.506	6995	04-Nov-13	11042013-002.SSF	158355.5981	14546
722222.534	4294342.554	6912	04-Nov-13	11042013-002.SSF	158356.4702	14547
722222.644	4294342.559	6903	04-Nov-13	11042013-002.SSF	158357.5518	14548
722222.717	4294342.539	6707	04-Nov-13	11042013-002.SSF	158358.4458	14549
722222.731	4294342.51	6412	04-Nov-13	11042013-002.SSF	158359.6089	14550
722222.743	4294342.514	6367	04-Nov-13	11042013-002.SSF	158360.4971	14551
722222.752	4294342.547	6469	04-Nov-13	11042013-002.SSF	158361.564	14552
722222.75	4294342.574	6368	04-Nov-13	11042013-002.SSF	158362.4712	14553
722222.736	4294342.567	6492	04-Nov-13	11042013-002.SSF	158363.5781	14554
722222.722	4294342.561	6712	04-Nov-13	11042013-002.SSF	158364.4829	14555
722222.712	4294342.546	7188	04-Nov-13	11042013-002.SSF	158365.5532	14556

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722222.692	4294342.575	7245	04-Nov-13	11042013-002.SSF	158366.5142	14557
722222.643	4294342.654	7458	04-Nov-13	11042013-002.SSF	158367.5039	14558
722222.581	4294342.677	7037	04-Nov-13	11042013-002.SSF	158368.4668	14559
722222.534	4294342.703	7198	04-Nov-13	11042013-002.SSF	158369.5361	14560
722222.532	4294342.803	6974	04-Nov-13	11042013-002.SSF	158370.5068	14561
722222.554	4294342.928	6923	04-Nov-13	11042013-002.SSF	158371.5068	14562
722222.574	4294342.994	7209	04-Nov-13	11042013-002.SSF	158372.4502	14563
722222.571	4294343.051	7557	04-Nov-13	11042013-002.SSF	158373.5078	14564
722222.543	4294343.16	7393	04-Nov-13	11042013-002.SSF	158374.4902	14565
722222.507	4294343.304	7503	04-Nov-13	11042013-002.SSF	158375.5898	14566
722222.47	4294343.411	7168	04-Nov-13	11042013-002.SSF	158376.54	14567
722222.434	4294343.517	7189	04-Nov-13	11042013-002.SSF	158377.5249	14568
722222.42	4294343.604	7164	04-Nov-13	11042013-002.SSF	158378.4858	14569
722222.425	4294343.745	7127	04-Nov-13	11042013-002.SSF	158379.541	14570
722222.444	4294343.947	7121	04-Nov-13	11042013-002.SSF	158380.4888	14571
722222.456	4294344.137	6848	04-Nov-13	11042013-002.SSF	158381.5381	14572
722222.45	4294344.272	6259	04-Nov-13	11042013-002.SSF	158382.4858	14573
722222.46	4294344.411	6521	04-Nov-13	11042013-002.SSF	158383.5239	14574
722222.448	4294344.491	6803	04-Nov-13	11042013-002.SSF	158384.5239	14575
722222.441	4294344.504	6721	04-Nov-13	11042013-002.SSF	158385.5122	14576
722222.451	4294344.512	6435	04-Nov-13	11042013-002.SSF	158386.5122	14577
722222.418	4294344.524	6275	04-Nov-13	11042013-002.SSF	158387.5142	14578
722222.37	4294344.54	6469	04-Nov-13	11042013-002.SSF	158388.5229	14579
722222.389	4294344.446	6804	04-Nov-13	11042013-002.SSF	158389.5181	14580
722222.418	4294344.283	6557	04-Nov-13	11042013-002.SSF	158390.5112	14581
722222.411	4294344.202	7041	04-Nov-13	11042013-002.SSF	158391.5112	14582
722222.37	4294344.252	6495	04-Nov-13	11042013-002.SSF	158392.5132	14583
722222.293	4294344.344	6556	04-Nov-13	11042013-002.SSF	158393.52	14584
722222.246	4294344.361	6882	04-Nov-13	11042013-002.SSF	158394.4639	14585
722222.242	4294344.319	6601	04-Nov-13	11042013-002.SSF	158395.5332	14586
722222.272	4294344.271	7080	04-Nov-13	11042013-002.SSF	158396.4331	14587
722222.283	4294344.221	7140	04-Nov-13	11042013-002.SSF	158397.4888	14588
722222.26	4294344.187	6919	04-Nov-13	11042013-002.SSF	158398.4482	14589
722222.213	4294344.145	7087	04-Nov-13	11042013-002.SSF	158399.5361	14590
722222.134	4294344.033	7091	04-Nov-13	11042013-002.SSF	158400.437	14591
722222.029	4294343.909	6756	04-Nov-13	11042013-002.SSF	158401.5068	14592
722221.951	4294343.859	6395	04-Nov-13	11042013-002.SSF	158402.4038	14593
722221.82	4294343.807	6740	04-Nov-13	11042013-002.SSF	158403.5059	14594
722221.726	4294343.804	6513	04-Nov-13	11042013-002.SSF	158404.4048	14595
722221.692	4294343.778	6221	04-Nov-13	11042013-002.SSF	158405.479	14596
722221.687	4294343.725	6732	04-Nov-13	11042013-002.SSF	158406.4102	14597
722221.705	4294343.668	6652	04-Nov-13	11042013-002.SSF	158407.5298	14598
722221.728	4294343.643	6689	04-Nov-13	11042013-002.SSF	158408.3872	14599
722221.733	4294343.574	6890	04-Nov-13	11042013-002.SSF	158409.5342	14600
722221.73	4294343.475	6898	04-Nov-13	11042013-002.SSF	158410.4668	14601
722221.756	4294343.406	7187	04-Nov-13	11042013-002.SSF	158411.5669	14602
722221.783	4294343.377	6923	04-Nov-13	11042013-002.SSF	158412.498	14603

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722221.807	4294343.399	6796	04-Nov-13	11042013-002.SSF	158413.5269	14604
722221.794	4294343.41	6988	04-Nov-13	11042013-002.SSF	158414.417	14605
722221.752	4294343.378	7170	04-Nov-13	11042013-002.SSF	158415.5088	14606
722221.753	4294343.393	7393	04-Nov-13	11042013-002.SSF	158416.4702	14607
722221.761	4294343.404	7488	04-Nov-13	11042013-002.SSF	158417.5361	14608
722221.76	4294343.395	6860	04-Nov-13	11042013-002.SSF	158418.4531	14609
722221.803	4294343.374	7263	04-Nov-13	11042013-002.SSF	158419.5352	14610
722221.858	4294343.375	6636	04-Nov-13	11042013-002.SSF	158420.4019	14611
722221.911	4294343.393	7085	04-Nov-13	11042013-002.SSF	158421.46	14612
722222.018	4294343.439	6618	04-Nov-13	11042013-002.SSF	158422.3872	14613
722222.28	4294343.567	6857	04-Nov-13	11042013-002.SSF	158423.397	14614
722222.525	4294343.652	7007	04-Nov-13	11042013-002.SSF	158424.353	14615
722222.625	4294343.671	6769	04-Nov-13	11042013-002.SSF	158425.48	14616
722222.823	4294343.535	7100	04-Nov-13	11042013-002.SSF	158426.4482	14617
722223.226	4294343.431	7001	04-Nov-13	11042013-002.SSF	158427.48	14618
722223.585	4294343.528	7110	04-Nov-13	11042013-002.SSF	158428.4438	14619
722223.965	4294343.666	7374	04-Nov-13	11042013-002.SSF	158429.4971	14620
722224.172	4294343.689	7200	04-Nov-13	11042013-002.SSF	158430.373	14621
722224.268	4294343.72	7567	04-Nov-13	11042013-002.SSF	158431.4731	14622
722224.28	4294343.747	7781	04-Nov-13	11042013-002.SSF	158432.436	14623
722224.334	4294343.723	7549	04-Nov-13	11042013-002.SSF	158433.4858	14624
722224.449	4294343.712	7314	04-Nov-13	11042013-002.SSF	158434.4609	14625
722224.62	4294343.708	7571	04-Nov-13	11042013-002.SSF	158435.5059	14626
722224.753	4294343.572	7146	04-Nov-13	11042013-002.SSF	158436.377	14627
722224.749	4294343.101	7597	04-Nov-13	11042013-002.SSF	158437.5259	14628
722224.744	4294342.954	7071	04-Nov-13	11042013-002.SSF	158438.356	14629
722224.9	4294343.236	7202	04-Nov-13	11042013-002.SSF	158439.4482	14630
722225.09	4294343.491	7148	04-Nov-13	11042013-002.SSF	158440.4771	14631
722225.352	4294343.636	6571	04-Nov-13	11042013-002.SSF	158441.5679	14632
722225.644	4294343.763	6403	04-Nov-13	11042013-002.SSF	158442.4512	14633
722225.912	4294343.845	6819	04-Nov-13	11042013-002.SSF	158443.5269	14634
722226.039	4294343.839	7608	04-Nov-13	11042013-002.SSF	158444.4819	14635
722226.187	4294343.947	7489	04-Nov-13	11042013-002.SSF	158445.481	14636
722226.39	4294344.093	7715	04-Nov-13	11042013-002.SSF	158446.4668	14637
722226.624	4294344.246	7609	04-Nov-13	11042013-002.SSF	158447.4561	14638
722226.816	4294344.384	7520	04-Nov-13	11042013-002.SSF	158448.4268	14639
722226.983	4294344.499	7815	04-Nov-13	11042013-002.SSF	158449.519	14640
722227.072	4294344.605	7921	04-Nov-13	11042013-002.SSF	158450.4512	14641
722227.174	4294344.707	7883	04-Nov-13	11042013-002.SSF	158451.4561	14642
722227.25	4294344.772	8026	04-Nov-13	11042013-002.SSF	158452.4561	14643
722227.248	4294344.869	7800	04-Nov-13	11042013-002.SSF	158453.4609	14644
722227.27	4294344.968	7590	04-Nov-13	11042013-002.SSF	158454.458	14645
722227.355	4294345.074	7532	04-Nov-13	11042013-002.SSF	158455.52	14646
722227.443	4294345.229	7746	04-Nov-13	11042013-002.SSF	158456.5171	14647
722227.486	4294345.443	8130	04-Nov-13	11042013-002.SSF	158457.522	14648
722227.528	4294345.639	7220	04-Nov-13	11042013-002.SSF	158458.521	14649
722227.576	4294345.814	7819	04-Nov-13	11042013-002.SSF	158459.499	14650

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722227.615	4294345.984	7683	04-Nov-13	11042013-002.SSF	158460.3872	14651
722227.655	4294346.162	7636	04-Nov-13	11042013-002.SSF	158461.4839	14652
722227.677	4294346.291	7423	04-Nov-13	11042013-002.SSF	158462.4482	14653
722227.686	4294346.409	7565	04-Nov-13	11042013-002.SSF	158463.4541	14654
722227.691	4294346.502	7810	04-Nov-13	11042013-002.SSF	158464.4492	14655
722227.701	4294346.625	7836	04-Nov-13	11042013-002.SSF	158465.4922	14656
722227.693	4294346.668	7617	04-Nov-13	11042013-002.SSF	158466.4072	14657
722227.677	4294346.663	7622	04-Nov-13	11042013-002.SSF	158467.5459	14658
722227.621	4294346.669	7242	04-Nov-13	11042013-002.SSF	158468.4121	14659
722227.52	4294346.623	7441	04-Nov-13	11042013-002.SSF	158469.4751	14660
722227.474	4294346.517	7155	04-Nov-13	11042013-002.SSF	158470.4302	14661
722227.482	4294346.126	6875	04-Nov-13	11042013-002.SSF	158471.5322	14662
722227.547	4294345.757	6709	04-Nov-13	11042013-002.SSF	158472.4219	14663
722227.616	4294345.448	6766	04-Nov-13	11042013-002.SSF	158473.5259	14664
722227.687	4294345.202	7436	04-Nov-13	11042013-002.SSF	158474.4248	14665
722227.795	4294344.983	7445	04-Nov-13	11042013-002.SSF	158475.4858	14666
722227.855	4294344.814	7315	04-Nov-13	11042013-002.SSF	158476.4048	14667
722227.898	4294344.654	7602	04-Nov-13	11042013-002.SSF	158477.481	14668
722227.953	4294344.617	7313	04-Nov-13	11042013-002.SSF	158478.3921	14669
722228.015	4294344.697	7459	04-Nov-13	11042013-002.SSF	158479.5391	14670
722228.044	4294344.719	6955	04-Nov-13	11042013-002.SSF	158480.4312	14671
722228.041	4294344.73	7182	04-Nov-13	11042013-002.SSF	158481.4502	14672
722228.02	4294344.78	7280	04-Nov-13	11042013-002.SSF	158482.3628	14673
722228.038	4294344.835	7327	04-Nov-13	11042013-002.SSF	158483.5342	14674
722228.086	4294344.856	7496	04-Nov-13	11042013-002.SSF	158484.3979	14675
722228.11	4294344.961	7232	04-Nov-13	11042013-002.SSF	158485.5029	14676
722228.117	4294345.026	7030	04-Nov-13	11042013-002.SSF	158486.354	14677
722228.139	4294345.085	6917	04-Nov-13	11042013-002.SSF	158487.5308	14678
722228.157	4294345.119	7378	04-Nov-13	11042013-002.SSF	158488.3608	14679
722228.223	4294345.108	7510	04-Nov-13	11042013-002.SSF	158489.5142	14680
722228.237	4294345.166	7307	04-Nov-13	11042013-002.SSF	158490.4302	14681
722228.184	4294345.304	7125	04-Nov-13	11042013-002.SSF	158491.5161	14682
722228.135	4294345.411	7653	04-Nov-13	11042013-002.SSF	158492.418	14683
722228.083	4294345.51	7650	04-Nov-13	11042013-002.SSF	158493.4482	14684
722228.034	4294345.581	8218	04-Nov-13	11042013-002.SSF	158494.4229	14685
722227.969	4294345.654	8312	04-Nov-13	11042013-002.SSF	158495.5098	14686
722227.914	4294345.732	7968	04-Nov-13	11042013-002.SSF	158496.3828	14687
722227.894	4294345.813	7887	04-Nov-13	11042013-002.SSF	158497.5229	14688
722227.918	4294345.865	7121	04-Nov-13	11042013-002.SSF	158498.3989	14689
722227.95	4294345.921	7208	04-Nov-13	11042013-002.SSF	158499.5088	14690
722227.953	4294345.903	7332	04-Nov-13	11042013-002.SSF	158500.4229	14691
722227.932	4294345.898	7019	04-Nov-13	11042013-002.SSF	158501.5249	14692
722227.901	4294345.916	7301	04-Nov-13	11042013-002.SSF	158502.4761	14693
722227.881	4294345.901	7174	04-Nov-13	11042013-002.SSF	158503.4771	14694
722227.881	4294345.889	7433	04-Nov-13	11042013-002.SSF	158504.4771	14695
722227.894	4294345.921	7413	04-Nov-13	11042013-002.SSF	158505.4609	14696
722227.892	4294345.957	7102	04-Nov-13	11042013-002.SSF	158506.3569	14697

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722227.887	4294345.931	7752	04-Nov-13	11042013-002.SSF	158507.521	14698
722227.897	4294345.861	7796	04-Nov-13	11042013-002.SSF	158508.4019	14699
722227.895	4294345.778	8030	04-Nov-13	11042013-002.SSF	158509.5161	14700
722227.912	4294345.753	8004	04-Nov-13	11042013-002.SSF	158510.4209	14701
722227.934	4294345.76	8027	04-Nov-13	11042013-002.SSF	158511.5361	14702
722227.871	4294345.786	7553	04-Nov-13	11042013-002.SSF	158512.3999	14703
722227.773	4294345.805	7241	04-Nov-13	11042013-002.SSF	158513.498	14704
722227.787	4294345.755	7095	04-Nov-13	11042013-002.SSF	158514.3198	14705
722227.815	4294345.594	7073	04-Nov-13	11042013-002.SSF	158515.4902	14706
722227.789	4294345.456	6911	04-Nov-13	11042013-002.SSF	158516.3872	14707
722227.702	4294345.338	6977	04-Nov-13	11042013-002.SSF	158517.5298	14708
722227.625	4294345.254	7232	04-Nov-13	11042013-002.SSF	158518.3989	14709
722227.542	4294345.122	7788	04-Nov-13	11042013-002.SSF	158519.5518	14710
722227.497	4294345.024	8033	04-Nov-13	11042013-002.SSF	158520.4028	14711
722227.418	4294344.928	7488	04-Nov-13	11042013-002.SSF	158521.5068	14712
722227.331	4294344.865	7407	04-Nov-13	11042013-002.SSF	158522.3618	14713
722227.243	4294344.738	7429	04-Nov-13	11042013-002.SSF	158523.46	14714
722227.244	4294344.675	7478	04-Nov-13	11042013-002.SSF	158524.355	14715
722227.354	4294344.68	7559	04-Nov-13	11042013-002.SSF	158525.501	14716
722227.548	4294344.672	7364	04-Nov-13	11042013-002.SSF	158526.3979	14717
722227.918	4294344.603	6655	04-Nov-13	11042013-002.SSF	158527.5059	14718
722228.253	4294344.542	6803	04-Nov-13	11042013-002.SSF	158528.4189	14719
722228.76	4294344.486	7262	04-Nov-13	11042013-002.SSF	158529.5059	14720
722229.328	4294344.425	7099	04-Nov-13	11042013-002.SSF	158530.3979	14721
722230.052	4294344.348	6993	04-Nov-13	11042013-002.SSF	158531.4609	14722
722230.604	4294344.218	6551	04-Nov-13	11042013-002.SSF	158532.3501	14723
722231.311	4294343.932	6842	04-Nov-13	11042013-002.SSF	158533.416	14724
722231.965	4294343.627	6496	04-Nov-13	11042013-002.SSF	158534.3301	14725
722232.887	4294343.564	6504	04-Nov-13	11042013-002.SSF	158535.418	14726
722233.195	4294343.871	5087	04-Nov-13	11042013-002.SSF	158541.4312	14727
722233.133	4294343.87	4654	04-Nov-13	11042013-002.SSF	158542.4009	14728
722233.06	4294343.891	5137	04-Nov-13	11042013-002.SSF	158543.459	14729
722232.968	4294343.88	5162	04-Nov-13	11042013-002.SSF	158544.4199	14730
722232.857	4294343.851	5626	04-Nov-13	11042013-002.SSF	158545.4058	14731
722232.76	4294343.837	5302	04-Nov-13	11042013-002.SSF	158546.3652	14732
722232.652	4294343.819	4887	04-Nov-13	11042013-002.SSF	158547.4351	14733
722232.572	4294343.792	4721	04-Nov-13	11042013-002.SSF	158548.4141	14734
722232.571	4294343.77	4913	04-Nov-13	11042013-002.SSF	158549.4712	14735
722232.601	4294343.758	4503	04-Nov-13	11042013-002.SSF	158550.4268	14736
722232.605	4294343.788	4948	04-Nov-13	11042013-002.SSF	158551.4868	14737
722232.64	4294343.869	5213	04-Nov-13	11042013-002.SSF	158552.4321	14738
722232.733	4294343.889	5460	04-Nov-13	11042013-002.SSF	158553.4912	14739
722232.831	4294343.884	5531	04-Nov-13	11042013-002.SSF	158554.4351	14740
722232.846	4294343.897	4881	04-Nov-13	11042013-002.SSF	158555.4922	14741
722232.812	4294343.896	4823	04-Nov-13	11042013-002.SSF	158556.3809	14742
722232.832	4294343.882	5368	04-Nov-13	11042013-002.SSF	158557.498	14743
722232.886	4294343.873	5404	04-Nov-13	11042013-002.SSF	158558.3579	14744

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722232.96	4294343.905	5207	04-Nov-13	11042013-002.SSF	158559.4692	14745
722232.974	4294343.92	5509	04-Nov-13	11042013-002.SSF	158560.3682	14746
722232.905	4294343.878	4936	04-Nov-13	11042013-002.SSF	158561.5098	14747
722232.824	4294343.806	5469	04-Nov-13	11042013-002.SSF	158562.3799	14748
722232.705	4294343.718	4936	04-Nov-13	11042013-002.SSF	158563.5112	14749
722232.61	4294343.685	4914	04-Nov-13	11042013-002.SSF	158564.3701	14750
722232.482	4294343.631	5074	04-Nov-13	11042013-002.SSF	158565.5132	14751
722232.265	4294343.673	5108	04-Nov-13	11042013-002.SSF	158567.5571	14752
722232.187	4294343.701	4688	04-Nov-13	11042013-002.SSF	158568.4312	14753
722233.188	4294344.33	4925	04-Nov-13	11042013-002.SSF	158575.501	14754
722233.487	4294344.401	5178	04-Nov-13	11042013-002.SSF	158576.3901	14755
722234.259	4294344.469	5117	04-Nov-13	11042013-002.SSF	158577.4941	14756
722234.862	4294344.476	4971	04-Nov-13	11042013-002.SSF	158578.3711	14757
722235.118	4294344.924	5083	04-Nov-13	11042013-002.SSF	158579.4609	14758
722235.147	4294345.902	6054	04-Nov-13	11042013-002.SSF	158580.397	14759
722235.194	4294347.096	6030	04-Nov-13	11042013-002.SSF	158581.5098	14760
722235.567	4294347.681	5844	04-Nov-13	11042013-002.SSF	158582.3931	14761
722236.647	4294347.894	7052	04-Nov-13	11042013-002.SSF	158583.4858	14762
722237.529	4294347.586	7552	04-Nov-13	11042013-002.SSF	158584.3682	14763
722238.437	4294346.983	7510	04-Nov-13	11042013-002.SSF	158585.395	14764
722239.437	4294346.67	7802	04-Nov-13	11042013-002.SSF	158586.3271	14765
722240.454	4294346.473	7231	04-Nov-13	11042013-002.SSF	158587.4351	14766
722241.127	4294346.373	8147	04-Nov-13	11042013-002.SSF	158588.3618	14767
722241.982	4294346.307	8078	04-Nov-13	11042013-002.SSF	158589.4438	14768
722242.711	4294346.427	8376	04-Nov-13	11042013-002.SSF	158590.3882	14769
722243.123	4294346.503	8424	04-Nov-13	11042013-002.SSF	158591.4429	14770
722243.349	4294346.216	8578	04-Nov-13	11042013-002.SSF	158592.3569	14771
722243.895	4294345.365	8500	04-Nov-13	11042013-002.SSF	158593.4429	14772
722244.134	4294344.852	8861	04-Nov-13	11042013-002.SSF	158594.354	14773
722244.226	4294344.707	8989	04-Nov-13	11042013-002.SSF	158595.501	14774
722244.448	4294344.794	8709	04-Nov-13	11042013-002.SSF	158596.417	14775
722244.685	4294344.694	8033	04-Nov-13	11042013-002.SSF	158597.501	14776
722244.883	4294344.451	8081	04-Nov-13	11042013-002.SSF	158598.3711	14777
722245.214	4294344.024	7830	04-Nov-13	11042013-002.SSF	158599.4902	14778
722245.467	4294343.931	8350	04-Nov-13	11042013-002.SSF	158600.3042	14779
722245.99	4294344.045	8094	04-Nov-13	11042013-002.SSF	158601.3989	14780
722246.529	4294344.125	8153	04-Nov-13	11042013-002.SSF	158602.3579	14781
722247.155	4294344.109	8501	04-Nov-13	11042013-002.SSF	158603.4258	14782
722247.451	4294344.078	7811	04-Nov-13	11042013-002.SSF	158604.3921	14783
722247.484	4294344.077	8039	04-Nov-13	11042013-002.SSF	158605.4438	14784
722247.456	4294344.047	8174	04-Nov-13	11042013-002.SSF	158606.4111	14785
722247.489	4294343.956	8265	04-Nov-13	11042013-002.SSF	158607.481	14786
722247.607	4294343.842	8751	04-Nov-13	11042013-002.SSF	158609.4912	14787
722247.663	4294343.761	8619	04-Nov-13	11042013-002.SSF	158611.4448	14788
722247.588	4294343.672	8678	04-Nov-13	11042013-002.SSF	158613.3931	14789
722247.704	4294343.617	8174	04-Nov-13	11042013-002.SSF	158614.3462	14790
722248.046	4294343.477	8400	04-Nov-13	11042013-002.SSF	158615.501	14791

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722248.219	4294343.408	8235	04-Nov-13	11042013-002.SSF	158616.3901	14792
722248.358	4294343.316	8014	04-Nov-13	11042013-002.SSF	158617.4941	14793
722248.375	4294343.212	8295	04-Nov-13	11042013-002.SSF	158618.3799	14794
722248.334	4294343.102	8829	04-Nov-13	11042013-002.SSF	158619.4971	14795
722248.294	4294343.038	8168	04-Nov-13	11042013-002.SSF	158620.396	14796
722248.303	4294343.018	8090	04-Nov-13	11042013-002.SSF	158621.5078	14797
722248.347	4294343.025	8180	04-Nov-13	11042013-002.SSF	158622.3779	14798
722248.408	4294343.007	8884	04-Nov-13	11042013-002.SSF	158623.5098	14799
722248.461	4294342.961	8364	04-Nov-13	11042013-002.SSF	158624.418	14800
722248.41	4294342.93	8642	04-Nov-13	11042013-002.SSF	158625.417	14801
722248.243	4294342.93	8754	04-Nov-13	11042013-002.SSF	158626.3799	14802
722248.149	4294342.852	8794	04-Nov-13	11042013-002.SSF	158627.5229	14803
722248.161	4294342.747	8606	04-Nov-13	11042013-002.SSF	158628.3979	14804
722248.19	4294342.661	8793	04-Nov-13	11042013-002.SSF	158629.4082	14805
722248.201	4294342.629	8523	04-Nov-13	11042013-002.SSF	158630.4082	14806
722248.217	4294342.648	8589	04-Nov-13	11042013-002.SSF	158631.459	14807
722248.249	4294342.705	8731	04-Nov-13	11042013-002.SSF	158632.4321	14808
722248.346	4294342.798	8526	04-Nov-13	11042013-002.SSF	158633.4072	14809
722248.481	4294342.893	8291	04-Nov-13	11042013-002.SSF	158634.3628	14810
722248.626	4294343.007	8203	04-Nov-13	11042013-002.SSF	158635.395	14811
722248.753	4294343.072	8117	04-Nov-13	11042013-002.SSF	158636.3921	14812
722248.876	4294343.12	7903	04-Nov-13	11042013-002.SSF	158637.4468	14813
722248.947	4294343.17	8105	04-Nov-13	11042013-002.SSF	158638.4082	14814
722248.966	4294343.198	8557	04-Nov-13	11042013-002.SSF	158639.4668	14815
722248.984	4294343.217	8570	04-Nov-13	11042013-002.SSF	158640.2959	14816
722249.034	4294343.24	8406	04-Nov-13	11042013-002.SSF	158641.3579	14817
722249.068	4294343.249	8808	04-Nov-13	11042013-002.SSF	158642.2871	14818
722249.107	4294343.269	8539	04-Nov-13	11042013-002.SSF	158643.4209	14819
722249.105	4294343.278	8343	04-Nov-13	11042013-002.SSF	158644.332	14820
722249.101	4294343.285	7775	04-Nov-13	11042013-002.SSF	158645.3599	14821
722249.059	4294343.281	8266	04-Nov-13	11042013-002.SSF	158646.3169	14822
722249.031	4294343.285	8685	04-Nov-13	11042013-002.SSF	158647.394	14823
722249.075	4294343.267	8507	04-Nov-13	11042013-002.SSF	158648.3418	14824
722249.026	4294343.268	8423	04-Nov-13	11042013-002.SSF	158649.4141	14825
722248.9	4294343.297	8060	04-Nov-13	11042013-002.SSF	158650.29	14826
722248.771	4294343.304	7578	04-Nov-13	11042013-002.SSF	158651.3682	14827
722248.668	4294343.329	7750	04-Nov-13	11042013-002.SSF	158652.3369	14828
722248.649	4294343.429	8559	04-Nov-13	11042013-002.SSF	158653.4038	14829
722248.652	4294343.451	8752	04-Nov-13	11042013-002.SSF	158654.272	14830
722248.646	4294343.461	8380	04-Nov-13	11042013-002.SSF	158655.499	14831
722248.67	4294343.458	8741	04-Nov-13	11042013-002.SSF	158656.4082	14832
722248.699	4294343.426	8854	04-Nov-13	11042013-002.SSF	158657.4341	14833
722248.706	4294343.403	8550	04-Nov-13	11042013-002.SSF	158658.376	14834
722248.719	4294343.397	9062	04-Nov-13	11042013-002.SSF	158659.4229	14835
722248.732	4294343.398	8675	04-Nov-13	11042013-002.SSF	158660.396	14836
722248.765	4294343.4	8502	04-Nov-13	11042013-002.SSF	158661.459	14837
722248.796	4294343.401	8607	04-Nov-13	11042013-002.SSF	158662.395	14838

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722248.823	4294343.412	8884	04-Nov-13	11042013-002.SSF	158663.4541	14839
722248.887	4294343.437	9137	04-Nov-13	11042013-002.SSF	158664.396	14840
722248.971	4294343.457	9099	04-Nov-13	11042013-002.SSF	158665.4912	14841
722249.005	4294343.463	8793	04-Nov-13	11042013-002.SSF	158666.4258	14842
722249.026	4294343.479	8441	04-Nov-13	11042013-002.SSF	158667.4888	14843
722249.053	4294343.511	8243	04-Nov-13	11042013-002.SSF	158668.3892	14844
722249.094	4294343.548	8371	04-Nov-13	11042013-002.SSF	158669.4209	14845
722249.12	4294343.561	7604	04-Nov-13	11042013-002.SSF	158670.3662	14846
722249.149	4294343.568	8229	04-Nov-13	11042013-002.SSF	158671.436	14847
722249.173	4294343.571	8041	04-Nov-13	11042013-002.SSF	158672.3252	14848
722249.134	4294343.605	7950	04-Nov-13	11042013-002.SSF	158673.4282	14849
722249.087	4294343.652	7922	04-Nov-13	11042013-002.SSF	158674.3179	14850
722249.119	4294343.624	7366	04-Nov-13	11042013-002.SSF	158675.5142	14851
722249.125	4294343.574	7713	04-Nov-13	11042013-002.SSF	158676.3789	14852
722249.059	4294343.488	7931	04-Nov-13	11042013-002.SSF	158677.4531	14853
722249.006	4294343.415	7904	04-Nov-13	11042013-002.SSF	158678.396	14854
722248.953	4294343.349	8016	04-Nov-13	11042013-002.SSF	158679.4629	14855
722248.884	4294343.293	7966	04-Nov-13	11042013-002.SSF	158680.3979	14856
722248.776	4294343.22	7998	04-Nov-13	11042013-002.SSF	158681.4678	14857
722248.706	4294343.167	8061	04-Nov-13	11042013-002.SSF	158682.3149	14858
722248.687	4294343.126	8262	04-Nov-13	11042013-002.SSF	158683.396	14859
722248.643	4294343.086	8052	04-Nov-13	11042013-002.SSF	158684.395	14860
722248.61	4294343.053	7874	04-Nov-13	11042013-002.SSF	158685.3721	14861
722248.663	4294343.063	7751	04-Nov-13	11042013-002.SSF	158686.2598	14862
722248.798	4294343.113	8043	04-Nov-13	11042013-002.SSF	158687.4189	14863
722248.927	4294343.136	8101	04-Nov-13	11042013-002.SSF	158688.3008	14864
722248.985	4294343.137	7999	04-Nov-13	11042013-002.SSF	158689.3618	14865
722249.056	4294343.132	8092	04-Nov-13	11042013-002.SSF	158690.397	14866
722249.021	4294343.112	8339	04-Nov-13	11042013-002.SSF	158691.4341	14867
722248.909	4294343.075	8576	04-Nov-13	11042013-002.SSF	158692.4282	14868
722248.838	4294343.068	8116	04-Nov-13	11042013-002.SSF	158693.459	14869
722248.778	4294343.074	8045	04-Nov-13	11042013-002.SSF	158694.3521	14870
722248.738	4294343.079	8058	04-Nov-13	11042013-002.SSF	158695.436	14871
722248.755	4294343.077	8447	04-Nov-13	11042013-002.SSF	158696.3188	14872
722248.782	4294343.059	8014	04-Nov-13	11042013-002.SSF	158697.3882	14873
722248.727	4294343.069	7823	04-Nov-13	11042013-002.SSF	158698.3721	14874
722248.709	4294343.123	8555	04-Nov-13	11042013-002.SSF	158699.3779	14875
722248.771	4294343.097	8374	04-Nov-13	11042013-002.SSF	158700.334	14876
722248.619	4294343.049	8145	04-Nov-13	11042013-002.SSF	158701.4248	14877
722248.476	4294343.02	7732	04-Nov-13	11042013-002.SSF	158702.3398	14878
722248.384	4294342.957	8437	04-Nov-13	11042013-002.SSF	158703.3848	14879
722248.362	4294342.882	8870	04-Nov-13	11042013-002.SSF	158704.3242	14880
722248.351	4294342.841	8769	04-Nov-13	11042013-002.SSF	158705.4468	14881
722248.349	4294342.826	8323	04-Nov-13	11042013-002.SSF	158706.3232	14882
722248.348	4294342.784	8394	04-Nov-13	11042013-002.SSF	158707.3882	14883
722248.389	4294342.747	8651	04-Nov-13	11042013-002.SSF	158708.312	14884
722248.531	4294342.713	8496	04-Nov-13	11042013-002.SSF	158709.4199	14885

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722248.635	4294342.675	8266	04-Nov-13	11042013-002.SSF	158710.3291	14886
722248.733	4294342.653	8017	04-Nov-13	11042013-002.SSF	158711.3911	14887
722248.818	4294342.652	8117	04-Nov-13	11042013-002.SSF	158712.354	14888
722248.889	4294342.635	8121	04-Nov-13	11042013-002.SSF	158713.417	14889
722248.922	4294342.613	8370	04-Nov-13	11042013-002.SSF	158714.3208	14890
722248.967	4294342.6	7903	04-Nov-13	11042013-002.SSF	158715.4019	14891
722248.992	4294342.586	7970	04-Nov-13	11042013-002.SSF	158716.3511	14892
722249.024	4294342.593	7723	04-Nov-13	11042013-002.SSF	158717.436	14893
722249.06	4294342.606	8319	04-Nov-13	11042013-002.SSF	158718.3491	14894
722249.073	4294342.571	8227	04-Nov-13	11042013-002.SSF	158719.4199	14895
722249.077	4294342.525	8092	04-Nov-13	11042013-002.SSF	158720.4009	14896
722249.103	4294342.489	8339	04-Nov-13	11042013-002.SSF	158721.4048	14897
722249.109	4294342.437	8643	04-Nov-13	11042013-002.SSF	158722.3989	14898
722249.095	4294342.395	8709	04-Nov-13	11042013-002.SSF	158723.3901	14899
722249.079	4294342.367	8251	04-Nov-13	11042013-002.SSF	158724.3418	14900
722249.091	4294342.388	8369	04-Nov-13	11042013-002.SSF	158725.394	14901
722249.101	4294342.398	8480	04-Nov-13	11042013-002.SSF	158726.3921	14902
722249.121	4294342.425	7852	04-Nov-13	11042013-002.SSF	158727.4219	14903
722249.157	4294342.438	7837	04-Nov-13	11042013-002.SSF	158728.3628	14904
722249.245	4294342.472	7723	04-Nov-13	11042013-002.SSF	158729.4468	14905
722249.254	4294342.534	7907	04-Nov-13	11042013-002.SSF	158730.2959	14906
722249.183	4294342.707	7897	04-Nov-13	11042013-002.SSF	158731.314	14907
722249.143	4294342.836	8080	04-Nov-13	11042013-002.SSF	158732.333	14908
722249.095	4294342.877	8280	04-Nov-13	11042013-002.SSF	158733.311	14909
722249.062	4294342.882	8527	04-Nov-13	11042013-002.SSF	158734.2842	14910
722249	4294342.833	8666	04-Nov-13	11042013-002.SSF	158735.3989	14911
722248.936	4294342.765	8647	04-Nov-13	11042013-002.SSF	158736.3008	14912
722248.877	4294342.732	8239	04-Nov-13	11042013-002.SSF	158737.355	14913
722248.851	4294342.722	8332	04-Nov-13	11042013-002.SSF	158738.3218	14914
722248.837	4294342.707	7934	04-Nov-13	11042013-002.SSF	158739.3818	14915
722248.851	4294342.683	8498	04-Nov-13	11042013-002.SSF	158740.3662	14916
722248.87	4294342.679	7952	04-Nov-13	11042013-002.SSF	158741.3511	14917
722248.879	4294342.658	7953	04-Nov-13	11042013-002.SSF	158742.3389	14918
722248.854	4294342.63	8223	04-Nov-13	11042013-002.SSF	158743.376	14919
722248.826	4294342.63	7941	04-Nov-13	11042013-002.SSF	158744.3491	14920
722248.79	4294342.629	8126	04-Nov-13	11042013-002.SSF	158745.396	14921
722248.759	4294342.62	7998	04-Nov-13	11042013-002.SSF	158746.3359	14922
722248.726	4294342.602	7949	04-Nov-13	11042013-002.SSF	158747.3901	14923
722248.702	4294342.596	7351	04-Nov-13	11042013-002.SSF	158748.3818	14924
722248.661	4294342.571	7997	04-Nov-13	11042013-002.SSF	158749.4321	14925
722248.621	4294342.545	7708	04-Nov-13	11042013-002.SSF	158750.2979	14926
722248.583	4294342.526	8581	04-Nov-13	11042013-002.SSF	158751.3848	14927
722248.556	4294342.5	7976	04-Nov-13	11042013-002.SSF	158752.4131	14928
722248.546	4294342.504	8147	04-Nov-13	11042013-002.SSF	158753.395	14929
722248.543	4294342.483	8212	04-Nov-13	11042013-002.SSF	158754.2822	14930
722248.568	4294342.365	8864	04-Nov-13	11042013-002.SSF	158755.3979	14931
722248.587	4294342.259	8744	04-Nov-13	11042013-002.SSF	158756.3018	14932

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722248.542	4294342.208	8443	04-Nov-13	11042013-002.SSF	158757.3989	14933
722248.525	4294342.185	8297	04-Nov-13	11042013-002.SSF	158758.2949	14934
722248.515	4294342.176	7914	04-Nov-13	11042013-002.SSF	158759.4019	14935
722248.507	4294342.184	7947	04-Nov-13	11042013-002.SSF	158760.354	14936
722248.509	4294342.173	7845	04-Nov-13	11042013-002.SSF	158761.418	14937
722248.53	4294342.162	7855	04-Nov-13	11042013-002.SSF	158762.3062	14938
722248.546	4294342.172	7808	04-Nov-13	11042013-002.SSF	158763.3672	14939
722248.538	4294342.175	8526	04-Nov-13	11042013-002.SSF	158764.3052	14940
722248.519	4294342.163	7898	04-Nov-13	11042013-002.SSF	158765.3838	14941
722248.518	4294342.164	7930	04-Nov-13	11042013-002.SSF	158766.333	14942
722248.526	4294342.149	7933	04-Nov-13	11042013-002.SSF	158767.4082	14943
722248.543	4294342.134	7762	04-Nov-13	11042013-002.SSF	158768.3828	14944
722248.556	4294342.113	8454	04-Nov-13	11042013-002.SSF	158769.4692	14945
722248.577	4294342.103	8197	04-Nov-13	11042013-002.SSF	158770.3091	14946
722248.6	4294342.102	8316	04-Nov-13	11042013-002.SSF	158771.394	14947
722248.577	4294342.076	7903	04-Nov-13	11042013-002.SSF	158772.2529	14948
722248.514	4294342.126	8652	04-Nov-13	11042013-002.SSF	158773.3921	14949
722248.454	4294342.263	8369	04-Nov-13	11042013-002.SSF	158774.2822	14950
722248.457	4294342.358	8848	04-Nov-13	11042013-002.SSF	158775.4121	14951
722248.455	4294342.33	8479	04-Nov-13	11042013-002.SSF	158776.2861	14952
722248.477	4294342.294	8489	04-Nov-13	11042013-002.SSF	158777.3872	14953
722248.464	4294342.255	8338	04-Nov-13	11042013-002.SSF	158778.3428	14954
722248.427	4294342.219	8410	04-Nov-13	11042013-002.SSF	158779.356	14955
722248.433	4294342.222	8570	04-Nov-13	11042013-002.SSF	158780.2959	14956
722248.435	4294342.208	8893	04-Nov-13	11042013-002.SSF	158781.4341	14957
722248.424	4294342.199	8685	04-Nov-13	11042013-002.SSF	158782.3008	14958
722248.424	4294342.196	8425	04-Nov-13	11042013-002.SSF	158783.3042	14959
722248.426	4294342.215	8496	04-Nov-13	11042013-002.SSF	158784.2861	14960
722248.412	4294342.268	8184	04-Nov-13	11042013-002.SSF	158785.3901	14961
722248.399	4294342.304	8151	04-Nov-13	11042013-002.SSF	158786.2749	14962
722248.36	4294342.298	8327	04-Nov-13	11042013-002.SSF	158787.333	14963
722248.361	4294342.325	8359	04-Nov-13	11042013-002.SSF	158788.3081	14964
722248.348	4294342.341	8752	04-Nov-13	11042013-002.SSF	158789.3828	14965
722248.345	4294342.347	8470	04-Nov-13	11042013-002.SSF	158790.2988	14966
722248.354	4294342.361	8514	04-Nov-13	11042013-002.SSF	158791.3662	14967
722248.357	4294342.378	8464	04-Nov-13	11042013-002.SSF	158792.2959	14968
722248.354	4294342.396	8143	04-Nov-13	11042013-002.SSF	158793.3589	14969
722248.334	4294342.38	8676	04-Nov-13	11042013-002.SSF	158794.2881	14970
722248.348	4294342.377	8007	04-Nov-13	11042013-002.SSF	158795.2949	14971
722248.369	4294342.365	8479	04-Nov-13	11042013-002.SSF	158796.2578	14972
722248.403	4294342.345	8354	04-Nov-13	11042013-002.SSF	158797.2969	14973
722248.404	4294342.337	8539	04-Nov-13	11042013-002.SSF	158798.2251	14974
722248.387	4294342.329	8666	04-Nov-13	11042013-002.SSF	158799.3008	14975
722248.344	4294342.311	8549	04-Nov-13	11042013-002.SSF	158800.3589	14976
722248.307	4294342.311	8289	04-Nov-13	11042013-002.SSF	158801.4219	14977
722248.31	4294342.31	8322	04-Nov-13	11042013-002.SSF	158802.2871	14978
722248.346	4294342.286	8491	04-Nov-13	11042013-002.SSF	158803.3789	14979

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722248.372	4294342.267	8241	04-Nov-13	11042013-002.SSF	158804.3408	14980
722248.382	4294342.252	8505	04-Nov-13	11042013-002.SSF	158805.3569	14981
722248.37	4294342.235	8557	04-Nov-13	11042013-002.SSF	158806.3301	14982
722248.351	4294342.224	8646	04-Nov-13	11042013-002.SSF	158807.4141	14983
722248.347	4294342.227	8891	04-Nov-13	11042013-002.SSF	158808.2671	14984
722248.316	4294342.213	8946	04-Nov-13	11042013-002.SSF	158809.4048	14985
722248.308	4294342.217	8549	04-Nov-13	11042013-002.SSF	158810.2969	14986
722248.309	4294342.213	8551	04-Nov-13	11042013-002.SSF	158811.3979	14987
722248.317	4294342.213	8852	04-Nov-13	11042013-002.SSF	158812.3071	14988
722248.331	4294342.215	8482	04-Nov-13	11042013-002.SSF	158813.377	14989
722248.368	4294342.199	7741	04-Nov-13	11042013-002.SSF	158814.3252	14990
722248.443	4294342.167	7991	04-Nov-13	11042013-002.SSF	158815.4058	14991
722248.51	4294342.182	7960	04-Nov-13	11042013-002.SSF	158816.292	14992
722248.55	4294342.179	8182	04-Nov-13	11042013-002.SSF	158817.356	14993
722248.581	4294342.188	8147	04-Nov-13	11042013-002.SSF	158818.2822	14994
722248.585	4294342.195	8422	04-Nov-13	11042013-002.SSF	158819.3481	14995
722248.568	4294342.196	8075	04-Nov-13	11042013-002.SSF	158820.2651	14996
722248.595	4294342.228	7939	04-Nov-13	11042013-002.SSF	158821.355	14997
722248.605	4294342.251	7998	04-Nov-13	11042013-002.SSF	158822.4229	14998
722248.608	4294342.272	8241	04-Nov-13	11042013-002.SSF	158823.3462	14999
722248.626	4294342.299	8873	04-Nov-13	11042013-002.SSF	158824.3208	15000
722248.61	4294342.276	8868	04-Nov-13	11042013-002.SSF	158825.3979	15001
722248.589	4294342.261	9301	04-Nov-13	11042013-002.SSF	158826.2729	15002
722248.597	4294342.293	8599	04-Nov-13	11042013-002.SSF	158827.4302	15003
722248.588	4294342.316	8632	04-Nov-13	11042013-002.SSF	158828.2798	15004
722248.571	4294342.324	8440	04-Nov-13	11042013-002.SSF	158829.4292	15005
722248.574	4294342.314	8355	04-Nov-13	11042013-002.SSF	158830.333	15006
722248.59	4294342.323	8202	04-Nov-13	11042013-002.SSF	158831.437	15007
722248.619	4294342.347	8536	04-Nov-13	11042013-002.SSF	158832.2808	15008
722248.635	4294342.386	8364	04-Nov-13	11042013-002.SSF	158833.438	15009
722248.534	4294342.447	7968	04-Nov-13	11042013-002.SSF	158835.4048	15010
722248.358	4294342.631	7901	04-Nov-13	11042013-002.SSF	158839.3882	15011
722248.354	4294342.663	7984	04-Nov-13	11042013-002.SSF	158840.2568	15012
722248.277	4294342.663	7708	04-Nov-13	11042013-002.SSF	158842.2891	15013
722248.279	4294342.647	7568	04-Nov-13	11042013-002.SSF	158843.415	15014
722248.214	4294342.598	7804	04-Nov-13	11042013-002.SSF	158844.333	15015
722248.155	4294342.502	7915	04-Nov-13	11042013-002.SSF	158845.4238	15016
722248.137	4294342.4	8442	04-Nov-13	11042013-002.SSF	158846.3179	15017
722248.136	4294342.333	8821	04-Nov-13	11042013-002.SSF	158847.3921	15018
722248.117	4294342.347	8209	04-Nov-13	11042013-002.SSF	158848.3071	15019
722248.053	4294342.451	7887	04-Nov-13	11042013-002.SSF	158849.4399	15020
722248.005	4294342.497	7841	04-Nov-13	11042013-002.SSF	158850.293	15021
722248.039	4294342.417	7403	04-Nov-13	11042013-002.SSF	158851.3862	15022
722248.154	4294342.41	7704	04-Nov-13	11042013-002.SSF	158852.2661	15023
722248.431	4294342.622	7731	04-Nov-13	11042013-002.SSF	158853.3198	15024
722248.579	4294342.785	8489	04-Nov-13	11042013-002.SSF	158854.2651	15025
722248.687	4294342.911	8457	04-Nov-13	11042013-002.SSF	158855.394	15026

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722248.738	4294342.994	8409	04-Nov-13	11042013-002.SSF	158856.3491	15027
722248.787	4294343.086	8473	04-Nov-13	11042013-002.SSF	158857.4092	15028
722248.818	4294343.158	8381	04-Nov-13	11042013-002.SSF	158858.2988	15029
722248.906	4294343.262	8599	04-Nov-13	11042013-002.SSF	158859.355	15030
722249.018	4294343.353	8722	04-Nov-13	11042013-002.SSF	158860.293	15031
722249.13	4294343.442	8123	04-Nov-13	11042013-002.SSF	158861.3779	15032
722249.197	4294343.484	8357	04-Nov-13	11042013-002.SSF	158862.3252	15033
722249.234	4294343.497	8151	04-Nov-13	11042013-002.SSF	158863.332	15034
722249.219	4294343.481	8213	04-Nov-13	11042013-002.SSF	158864.29	15035
722249.291	4294343.521	8302	04-Nov-13	11042013-002.SSF	158865.3872	15036
722249.422	4294343.634	8157	04-Nov-13	11042013-002.SSF	158866.3682	15037
722249.557	4294343.748	8068	04-Nov-13	11042013-002.SSF	158867.418	15038
722249.596	4294343.799	7846	04-Nov-13	11042013-002.SSF	158868.2979	15039
722249.61	4294343.797	7428	04-Nov-13	11042013-002.SSF	158869.3579	15040
722249.648	4294343.792	7868	04-Nov-13	11042013-002.SSF	158870.2959	15041
722249.62	4294343.763	8333	04-Nov-13	11042013-002.SSF	158871.4009	15042
722249.57	4294343.773	8197	04-Nov-13	11042013-002.SSF	158872.2681	15043
722249.355	4294343.839	8226	04-Nov-13	11042013-002.SSF	158873.3999	15044
722249.161	4294343.883	8332	04-Nov-13	11042013-002.SSF	158874.2852	15045
722249.069	4294343.894	8909	04-Nov-13	11042013-002.SSF	158875.395	15046
722248.998	4294343.897	8971	04-Nov-13	11042013-002.SSF	158876.2739	15047
722248.905	4294343.911	8849	04-Nov-13	11042013-002.SSF	158877.3301	15048
722248.843	4294343.926	9215	04-Nov-13	11042013-002.SSF	158878.29	15049
722248.75	4294343.937	9128	04-Nov-13	11042013-002.SSF	158879.3828	15050
722248.675	4294343.93	9229	04-Nov-13	11042013-002.SSF	158880.2891	15051
722248.585	4294343.917	8836	04-Nov-13	11042013-002.SSF	158881.335	15052
722248.469	4294343.923	8938	04-Nov-13	11042013-002.SSF	158882.3042	15053
722248.389	4294343.966	8957	04-Nov-13	11042013-002.SSF	158883.3608	15054
722248.385	4294344.015	8953	04-Nov-13	11042013-002.SSF	158884.2422	15055
722248.492	4294343.928	8733	04-Nov-13	11042013-002.SSF	158885.2959	15056
722248.592	4294343.696	8077	04-Nov-13	11042013-002.SSF	158886.2368	15057
722248.792	4294343.383	8683	04-Nov-13	11042013-002.SSF	158887.2788	15058
722249.242	4294343.007	8312	04-Nov-13	11042013-002.SSF	158888.2271	15059
722249.491	4294342.517	7998	04-Nov-13	11042013-002.SSF	158889.2852	15060
722249.475	4294342.229	8189	04-Nov-13	11042013-002.SSF	158890.2739	15061
722249.583	4294341.818	8356	04-Nov-13	11042013-002.SSF	158891.3008	15062
722249.777	4294341.362	8285	04-Nov-13	11042013-002.SSF	158892.293	15063
722250.173	4294340.773	8575	04-Nov-13	11042013-002.SSF	158893.3052	15064
722250.395	4294340.214	8266	04-Nov-13	11042013-002.SSF	158894.251	15065
722250.499	4294339.662	8009	04-Nov-13	11042013-002.SSF	158895.3828	15066
722250.59	4294339.245	8158	04-Nov-13	11042013-002.SSF	158896.272	15067
722250.579	4294338.943	7768	04-Nov-13	11042013-002.SSF	158897.3188	15068
722250.683	4294338.511	8352	04-Nov-13	11042013-002.SSF	158898.3208	15069
722250.687	4294338.029	8613	04-Nov-13	11042013-002.SSF	158899.375	15070
722250.61	4294337.882	8580	04-Nov-13	11042013-002.SSF	158900.2759	15071
722250.33	4294337.84	8370	04-Nov-13	11042013-002.SSF	158902.2441	15072
722250.375	4294337.858	8286	04-Nov-13	11042013-002.SSF	158903.3428	15073

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722250.385	4294337.9	8441	04-Nov-13	11042013-002.SSF	158904.2402	15074
722250.26	4294337.942	8745	04-Nov-13	11042013-002.SSF	158905.3291	15075
722250.184	4294337.94	8174	04-Nov-13	11042013-002.SSF	158906.2451	15076
722250.198	4294337.929	8543	04-Nov-13	11042013-002.SSF	158907.313	15077
722250.5	4294337.876	8623	04-Nov-13	11042013-002.SSF	158908.2178	15078
722250.753	4294337.886	8457	04-Nov-13	11042013-002.SSF	158909.2559	15079
722250.938	4294338.015	8530	04-Nov-13	11042013-002.SSF	158910.29	15080
722251.153	4294337.952	8728	04-Nov-13	11042013-002.SSF	158911.397	15081
722250.34	4294335.26	8018	04-Nov-13	11042013-002.SSF	158926.2251	15082
722250.33	4294335.023	7608	04-Nov-13	11042013-002.SSF	158927.3198	15083
722250.249	4294334.69	7849	04-Nov-13	11042013-002.SSF	158928.3032	15084
722249.974	4294334.173	7077	04-Nov-13	11042013-002.SSF	158931.2568	15085
722249.88	4294334.048	6868	04-Nov-13	11042013-002.SSF	158932.2769	15086
722249.808	4294333.937	7133	04-Nov-13	11042013-002.SSF	158933.249	15087
722249.77	4294333.871	7447	04-Nov-13	11042013-002.SSF	158934.2202	15088
722249.842	4294333.807	6829	04-Nov-13	11042013-002.SSF	158935.314	15089
722249.818	4294333.816	7254	04-Nov-13	11042013-002.SSF	158936.3608	15090
722249.775	4294333.817	7822	04-Nov-13	11042013-002.SSF	158937.3989	15091
722249.675	4294333.731	8180	04-Nov-13	11042013-002.SSF	158938.2979	15092
722249.188	4294333.848	8026	04-Nov-13	11042013-002.SSF	158940.2778	15093
722249.112	4294333.934	8017	04-Nov-13	11042013-002.SSF	158941.3818	15094
722249.157	4294333.901	8289	04-Nov-13	11042013-002.SSF	158942.3848	15095
722249.167	4294333.78	8338	04-Nov-13	11042013-002.SSF	158943.376	15096
722249.281	4294333.516	9137	04-Nov-13	11042013-002.SSF	158944.3599	15097
722249.319	4294333.274	8837	04-Nov-13	11042013-002.SSF	158945.3398	15098
722249.295	4294333.131	8533	04-Nov-13	11042013-002.SSF	158946.248	15099
722249.072	4294333.12	8445	04-Nov-13	11042013-002.SSF	158947.3018	15100
722248.753	4294333.027	7908	04-Nov-13	11042013-002.SSF	158948.2329	15101
722248.429	4294332.963	7875	04-Nov-13	11042013-002.SSF	158949.2642	15102
722248.39	4294332.877	8292	04-Nov-13	11042013-002.SSF	158950.313	15103
722248.554	4294332.788	7897	04-Nov-13	11042013-002.SSF	158951.3149	15104
722248.641	4294332.746	7772	04-Nov-13	11042013-002.SSF	158952.3379	15105
722248.611	4294332.714	7702	04-Nov-13	11042013-002.SSF	158953.3999	15106
722248.482	4294332.679	7797	04-Nov-13	11042013-002.SSF	158954.2441	15107
722248.422	4294332.58	7513	04-Nov-13	11042013-002.SSF	158955.3062	15108
722248.194	4294332.463	7196	04-Nov-13	11042013-002.SSF	158956.249	15109
722248.169	4294332.743	7663	04-Nov-13	11042013-002.SSF	158957.3911	15110
722248.048	4294333.041	7482	04-Nov-13	11042013-002.SSF	158958.374	15111
722247.988	4294333.147	7141	04-Nov-13	11042013-002.SSF	158959.3032	15112
722248.271	4294333.4	7362	04-Nov-13	11042013-002.SSF	158960.2178	15113
722248.606	4294333.57	7516	04-Nov-13	11042013-002.SSF	158961.2681	15114
722248.906	4294333.629	7752	04-Nov-13	11042013-002.SSF	158962.3062	15115
722249.211	4294333.412	7556	04-Nov-13	11042013-002.SSF	158963.3218	15116
722249.552	4294333.211	7572	04-Nov-13	11042013-002.SSF	158964.1899	15117
722249.633	4294332.857	7747	04-Nov-13	11042013-002.SSF	158965.2549	15118
722249.858	4294332.685	8310	04-Nov-13	11042013-002.SSF	158966.2798	15119
722250.057	4294332.609	8507	04-Nov-13	11042013-002.SSF	158967.3271	15120

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722249.995	4294332.62	8227	04-Nov-13	11042013-002.SSF	158968.2539	15121
722250.023	4294332.508	7913	04-Nov-13	11042013-002.SSF	158969.3389	15122
722250.134	4294332.287	8216	04-Nov-13	11042013-002.SSF	158970.186	15123
722250.437	4294331.668	8709	04-Nov-13	11042013-002.SSF	158971.252	15124
722251.028	4294331.285	8971	04-Nov-13	11042013-002.SSF	158972.1919	15125
722251.089	4294331.204	9516	04-Nov-13	11042013-002.SSF	158973.2378	15126
722251.284	4294331.234	8960	04-Nov-13	11042013-002.SSF	158974.2261	15127
722251.391	4294331.337	8437	04-Nov-13	11042013-002.SSF	158975.3608	15128
722251.424	4294331.427	8436	04-Nov-13	11042013-002.SSF	158976.3301	15129
722251.428	4294331.487	8248	04-Nov-13	11042013-002.SSF	158977.3491	15130
722251.45	4294331.498	8929	04-Nov-13	11042013-002.SSF	158978.3711	15131
722251.433	4294331.425	8892	04-Nov-13	11042013-002.SSF	158979.376	15132
722251.37	4294331.393	8872	04-Nov-13	11042013-002.SSF	158980.1831	15133
722251.304	4294331.386	8935	04-Nov-13	11042013-002.SSF	158981.2778	15134
722251.131	4294331.359	8506	04-Nov-13	11042013-002.SSF	158982.2529	15135
722251.035	4294331.348	9097	04-Nov-13	11042013-002.SSF	158983.2471	15136
722250.992	4294331.493	9279	04-Nov-13	11042013-002.SSF	158984.271	15137
722250.938	4294331.825	8482	04-Nov-13	11042013-002.SSF	158985.3091	15138
722251.201	4294332.118	9001	04-Nov-13	11042013-002.SSF	158986.248	15139
722251.569	4294332.052	9210	04-Nov-13	11042013-002.SSF	158987.3101	15140
722251.775	4294331.815	9088	04-Nov-13	11042013-002.SSF	158988.2778	15141
722252.074	4294331.545	9027	04-Nov-13	11042013-002.SSF	158989.2808	15142
722252.361	4294331.403	9457	04-Nov-13	11042013-002.SSF	158990.3232	15143
722252.502	4294331.475	9415	04-Nov-13	11042013-002.SSF	158991.3682	15144
722252.68	4294331.52	9106	04-Nov-13	11042013-002.SSF	158992.2271	15145
722253.447	4294331.397	9592	04-Nov-13	11042013-002.SSF	158993.3071	15146
722254.139	4294331.739	9558	04-Nov-13	11042013-002.SSF	158994.3008	15147
722254.358	4294332.256	9456	04-Nov-13	11042013-002.SSF	158995.3662	15148
722254.514	4294332.523	9571	04-Nov-13	11042013-002.SSF	158996.2939	15149
722254.402	4294332.845	8894	04-Nov-13	11042013-002.SSF	158997.4028	15150
722254.302	4294333.089	8932	04-Nov-13	11042013-002.SSF	158998.2148	15151
722254.277	4294333.237	8737	04-Nov-13	11042013-002.SSF	158999.3921	15152
722254.327	4294333.296	8934	04-Nov-13	11042013-002.SSF	159000.2139	15153
722254.45	4294333.283	8670	04-Nov-13	11042013-002.SSF	159001.2822	15154
722254.529	4294333.245	8724	04-Nov-13	11042013-002.SSF	159002.2432	15155
722254.556	4294333.22	8935	04-Nov-13	11042013-002.SSF	159003.3198	15156
722254.537	4294333.193	8581	04-Nov-13	11042013-002.SSF	159004.2139	15157
722254.541	4294333.155	8869	04-Nov-13	11042013-002.SSF	159005.3018	15158
722254.533	4294333.049	8911	04-Nov-13	11042013-002.SSF	159006.1719	15159
722254.404	4294332.835	8785	04-Nov-13	11042013-002.SSF	159007.2461	15160
722254.37	4294332.409	9029	04-Nov-13	11042013-002.SSF	159008.2051	15161
722254.589	4294332.002	9076	04-Nov-13	11042013-002.SSF	159009.3662	15162
722254.697	4294331.898	9470	04-Nov-13	11042013-002.SSF	159010.2339	15163
722254.837	4294331.735	9422	04-Nov-13	11042013-002.SSF	159011.3799	15164
722254.957	4294331.635	9635	04-Nov-13	11042013-002.SSF	159012.2388	15165
722254.951	4294331.472	9132	04-Nov-13	11042013-002.SSF	159013.3232	15166
722254.784	4294331.356	9099	04-Nov-13	11042013-002.SSF	159014.269	15167

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722254.579	4294331.26	9358	04-Nov-13	11042013-002.SSF	159015.375	15168
722254.401	4294331.201	9944	04-Nov-13	11042013-002.SSF	159016.23	15169
722254.06	4294331.171	10026	04-Nov-13	11042013-002.SSF	159017.4312	15170
722253.548	4294331.082	9757	04-Nov-13	11042013-002.SSF	159018.2251	15171
722252.985	4294330.837	9951	04-Nov-13	11042013-002.SSF	159019.2871	15172
722253.41	4294330.59	9527	04-Nov-13	11042013-002.SSF	159020.3271	15173
722253.353	4294330.4	9416	04-Nov-13	11042013-002.SSF	159021.3911	15174
722253.564	4294330.405	9091	04-Nov-13	11042013-002.SSF	159022.25	15175
722253.775	4294330.454	8579	04-Nov-13	11042013-002.SSF	159023.3442	15176
722253.919	4294330.581	10083	04-Nov-13	11042013-002.SSF	159024.3442	15177
722254.003	4294330.674	10741	04-Nov-13	11042013-002.SSF	159025.3091	15178
722254.017	4294330.692	10077	04-Nov-13	11042013-002.SSF	159026.3032	15179
722254.041	4294330.839	9568	04-Nov-13	11042013-002.SSF	159027.376	15180
722254.082	4294331.003	9634	04-Nov-13	11042013-002.SSF	159028.231	15181
722254.135	4294331.183	9199	04-Nov-13	11042013-002.SSF	159029.3179	15182
722254.16	4294331.284	9322	04-Nov-13	11042013-002.SSF	159030.1738	15183
722254.18	4294331.384	9181	04-Nov-13	11042013-002.SSF	159031.3638	15184
722254.149	4294331.479	8861	04-Nov-13	11042013-002.SSF	159032.231	15185
722254.14	4294331.53	9582	04-Nov-13	11042013-002.SSF	159033.333	15186
722254.176	4294331.547	9162	04-Nov-13	11042013-002.SSF	159034.2119	15187
722254.186	4294331.596	9241	04-Nov-13	11042013-002.SSF	159035.29	15188
722254.161	4294331.654	9443	04-Nov-13	11042013-002.SSF	159036.252	15189
722254.156	4294331.7	9227	04-Nov-13	11042013-002.SSF	159037.313	15190
722254.176	4294331.712	9592	04-Nov-13	11042013-002.SSF	159038.1948	15191
722254.185	4294331.678	9168	04-Nov-13	11042013-002.SSF	159039.2451	15192
722254.16	4294331.66	9357	04-Nov-13	11042013-002.SSF	159040.1899	15193
722254.11	4294331.568	9703	04-Nov-13	11042013-002.SSF	159041.2441	15194
722254.04	4294331.545	9028	04-Nov-13	11042013-002.SSF	159042.2402	15195
722253.938	4294331.562	9773	04-Nov-13	11042013-002.SSF	159043.27	15196
722253.889	4294331.496	9900	04-Nov-13	11042013-002.SSF	159044.313	15197
722253.853	4294331.473	9768	04-Nov-13	11042013-002.SSF	159045.2891	15198
722253.825	4294331.455	10160	04-Nov-13	11042013-002.SSF	159046.2178	15199
722253.793	4294331.446	10275	04-Nov-13	11042013-002.SSF	159047.293	15200
722253.77	4294331.42	9777	04-Nov-13	11042013-002.SSF	159048.2871	15201
722253.761	4294331.401	9827	04-Nov-13	11042013-002.SSF	159049.2642	15202
722253.717	4294331.399	10050	04-Nov-13	11042013-002.SSF	159050.187	15203
722253.694	4294331.418	9433	04-Nov-13	11042013-002.SSF	159051.2871	15204
722253.729	4294331.448	9566	04-Nov-13	11042013-002.SSF	159052.252	15205
722253.738	4294331.474	9746	04-Nov-13	11042013-002.SSF	159053.23	15206
722253.725	4294331.658	9907	04-Nov-13	11042013-002.SSF	159054.1958	15207
722254.031	4294331.938	9450	04-Nov-13	11042013-002.SSF	159055.354	15208
722254.206	4294332.03	10325	04-Nov-13	11042013-002.SSF	159056.1938	15209
722254.679	4294332.068	10923	04-Nov-13	11042013-002.SSF	159057.2642	15210
722255.166	4294332.011	10262	04-Nov-13	11042013-002.SSF	159058.3281	15211
722255.423	4294331.975	10182	04-Nov-13	11042013-002.SSF	159059.3398	15212
722255.554	4294331.99	9897	04-Nov-13	11042013-002.SSF	159060.332	15213
722255.591	4294332.008	10075	04-Nov-13	11042013-002.SSF	159061.3608	15214

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722255.537	4294332.063	10189	04-Nov-13	11042013-002.SSF	159062.3398	15215
722255.284	4294332.259	10104	04-Nov-13	11042013-002.SSF	159063.3389	15216
722255.085	4294332.414	9831	04-Nov-13	11042013-002.SSF	159064.312	15217
722254.913	4294332.552	9610	04-Nov-13	11042013-002.SSF	159065.3071	15218
722254.753	4294332.641	9313	04-Nov-13	11042013-002.SSF	159066.2168	15219
722254.575	4294332.707	9596	04-Nov-13	11042013-002.SSF	159067.3159	15220
722254.515	4294332.708	10235	04-Nov-13	11042013-002.SSF	159068.2319	15221
722254.397	4294332.719	10167	04-Nov-13	11042013-002.SSF	159069.333	15222
722254.368	4294332.719	10031	04-Nov-13	11042013-002.SSF	159070.2671	15223
722254.316	4294332.739	9775	04-Nov-13	11042013-002.SSF	159071.2998	15224
722254.311	4294332.688	10276	04-Nov-13	11042013-002.SSF	159072.271	15225
722254.42	4294332.583	11075	04-Nov-13	11042013-002.SSF	159073.2441	15226
722254.555	4294332.516	10684	04-Nov-13	11042013-002.SSF	159074.187	15227
722254.675	4294332.451	10052	04-Nov-13	11042013-002.SSF	159075.3872	15228
722254.757	4294332.403	9412	04-Nov-13	11042013-002.SSF	159076.2832	15229
722254.876	4294332.298	9119	04-Nov-13	11042013-002.SSF	159077.354	15230
722254.97	4294332.213	9284	04-Nov-13	11042013-002.SSF	159078.3389	15231
722255.108	4294332.158	8890	04-Nov-13	11042013-002.SSF	159079.2998	15232
722255.331	4294332.045	9485	04-Nov-13	11042013-002.SSF	159080.2261	15233
722255.55	4294331.907	9280	04-Nov-13	11042013-002.SSF	159081.312	15234
722255.716	4294331.828	9960	04-Nov-13	11042013-002.SSF	159082.3071	15235
722255.836	4294331.775	9697	04-Nov-13	11042013-002.SSF	159083.3188	15236
722255.915	4294331.742	9812	04-Nov-13	11042013-002.SSF	159084.3169	15237
722256.001	4294331.708	9719	04-Nov-13	11042013-002.SSF	159085.3101	15238
722256.083	4294331.677	9900	04-Nov-13	11042013-002.SSF	159086.2988	15239
722256.119	4294331.667	9776	04-Nov-13	11042013-002.SSF	159087.2959	15240
722256.134	4294331.651	9766	04-Nov-13	11042013-002.SSF	159088.3242	15241
722256.176	4294331.635	9738	04-Nov-13	11042013-002.SSF	159089.377	15242
722256.207	4294331.611	9978	04-Nov-13	11042013-002.SSF	159090.1758	15243
722256.185	4294331.582	9520	04-Nov-13	11042013-002.SSF	159091.2749	15244
722256.192	4294331.562	9600	04-Nov-13	11042013-002.SSF	159092.1841	15245
722256.219	4294331.548	9585	04-Nov-13	11042013-002.SSF	159093.2529	15246
722256.213	4294331.543	9858	04-Nov-13	11042013-002.SSF	159094.2031	15247
722256.193	4294331.527	10209	04-Nov-13	11042013-002.SSF	159095.334	15248
722256.197	4294331.51	10160	04-Nov-13	11042013-002.SSF	159096.1289	15249
722256.182	4294331.471	10590	04-Nov-13	11042013-002.SSF	159097.2769	15250
722256.169	4294331.435	10502	04-Nov-13	11042013-002.SSF	159098.208	15251
722256.172	4294331.409	10512	04-Nov-13	11042013-002.SSF	159099.2998	15252
722256.136	4294331.391	10188	04-Nov-13	11042013-002.SSF	159100.2129	15253
722256.091	4294331.404	10148	04-Nov-13	11042013-002.SSF	159101.3101	15254
722256.011	4294331.45	9736	04-Nov-13	11042013-002.SSF	159102.2612	15255
722255.952	4294331.486	9751	04-Nov-13	11042013-002.SSF	159103.3159	15256
722255.896	4294331.511	9347	04-Nov-13	11042013-002.SSF	159104.2241	15257
722255.869	4294331.524	9788	04-Nov-13	11042013-002.SSF	159105.3169	15258
722255.844	4294331.516	9878	04-Nov-13	11042013-002.SSF	159106.187	15259
722255.772	4294331.537	10401	04-Nov-13	11042013-002.SSF	159107.3101	15260
722255.721	4294331.549	10043	04-Nov-13	11042013-002.SSF	159108.2842	15261

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722255.689	4294331.592	10217	04-Nov-13	11042013-002.SSF	159109.2612	15262
722255.623	4294331.607	10682	04-Nov-13	11042013-002.SSF	159110.2192	15263
722255.535	4294331.626	10748	04-Nov-13	11042013-002.SSF	159111.3379	15264
722255.474	4294331.643	11041	04-Nov-13	11042013-002.SSF	159112.2212	15265
722255.388	4294331.646	10553	04-Nov-13	11042013-002.SSF	159113.312	15266
722255.376	4294331.61	10158	04-Nov-13	11042013-002.SSF	159114.2261	15267
722255.363	4294331.598	10289	04-Nov-13	11042013-002.SSF	159115.29	15268
722255.359	4294331.579	9785	04-Nov-13	11042013-002.SSF	159116.1582	15269
722255.372	4294331.532	9269	04-Nov-13	11042013-002.SSF	159117.2959	15270
722255.413	4294331.499	9181	04-Nov-13	11042013-002.SSF	159118.2158	15271
722255.421	4294331.469	9919	04-Nov-13	11042013-002.SSF	159119.292	15272
722255.372	4294331.471	9967	04-Nov-13	11042013-002.SSF	159120.2168	15273
722255.211	4294331.533	10301	04-Nov-13	11042013-002.SSF	159121.27	15274
722255.147	4294331.529	9732	04-Nov-13	11042013-002.SSF	159122.2109	15275
722255.094	4294331.574	9194	04-Nov-13	11042013-002.SSF	159123.2612	15276
722255.084	4294331.603	9491	04-Nov-13	11042013-002.SSF	159124.1099	15277
722255.062	4294331.644	10146	04-Nov-13	11042013-002.SSF	159125.312	15278
722255.04	4294331.668	9315	04-Nov-13	11042013-002.SSF	159126.2461	15279
722254.979	4294331.687	9822	04-Nov-13	11042013-002.SSF	159127.2012	15280
722254.912	4294331.697	10557	04-Nov-13	11042013-002.SSF	159128.2422	15281
722254.882	4294331.674	10221	04-Nov-13	11042013-002.SSF	159129.2778	15282
722254.892	4294331.646	9566	04-Nov-13	11042013-002.SSF	159130.2031	15283
722254.946	4294331.634	9543	04-Nov-13	11042013-002.SSF	159131.27	15284
722254.984	4294331.574	10183	04-Nov-13	11042013-002.SSF	159132.208	15285
722254.966	4294331.317	9343	04-Nov-13	11042013-002.SSF	159133.2622	15286
722254.811	4294331.256	10123	04-Nov-13	11042013-002.SSF	159134.1768	15287
722254.505	4294331.27	10359	04-Nov-13	11042013-002.SSF	159135.3481	15288
722254.453	4294331.235	10049	04-Nov-13	11042013-002.SSF	159136.2002	15289
722254.583	4294331.303	9830	04-Nov-13	11042013-002.SSF	159137.291	15290
722254.768	4294331.264	9474	04-Nov-13	11042013-002.SSF	159138.269	15291
722254.887	4294331.221	9094	04-Nov-13	11042013-002.SSF	159139.2632	15292
722254.853	4294331.18	9488	04-Nov-13	11042013-002.SSF	159140.291	15293
722254.94	4294331.067	9732	04-Nov-13	11042013-002.SSF	159141.3018	15294
722255.005	4294330.939	9944	04-Nov-13	11042013-002.SSF	159142.2451	15295
722254.975	4294330.849	10086	04-Nov-13	11042013-002.SSF	159143.2881	15296
722255.023	4294330.769	10016	04-Nov-13	11042013-002.SSF	159144.1899	15297
722255.129	4294330.677	9669	04-Nov-13	11042013-002.SSF	159145.293	15298
722255.064	4294330.647	9511	04-Nov-13	11042013-002.SSF	159146.1831	15299
722254.809	4294330.755	9422	04-Nov-13	11042013-002.SSF	159147.2988	15300
722254.706	4294330.821	9755	04-Nov-13	11042013-002.SSF	159148.1851	15301
722254.563	4294330.851	9469	04-Nov-13	11042013-002.SSF	159149.3379	15302
722254.419	4294330.951	9406	04-Nov-13	11042013-002.SSF	159150.2319	15303
722254.396	4294331.011	9431	04-Nov-13	11042013-002.SSF	159151.3452	15304
722254.431	4294331.034	9595	04-Nov-13	11042013-002.SSF	159152.2681	15305
722254.415	4294331.076	9739	04-Nov-13	11042013-002.SSF	159153.3301	15306
722254.457	4294331.096	10413	04-Nov-13	11042013-002.SSF	159154.356	15307
722254.505	4294331.027	10515	04-Nov-13	11042013-002.SSF	159155.3188	15308

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722254.548	4294330.859	10774	04-Nov-13	11042013-002.SSF	159156.2588	15309
722254.668	4294330.821	10058	04-Nov-13	11042013-002.SSF	159157.395	15310
722254.702	4294330.873	9932	04-Nov-13	11042013-002.SSF	159158.1782	15311
722254.559	4294331.167	10087	04-Nov-13	11042013-002.SSF	159159.3032	15312
722254.506	4294331.145	10039	04-Nov-13	11042013-002.SSF	159160.3242	15313
722254.374	4294330.977	10019	04-Nov-13	11042013-002.SSF	159161.291	15314
722254.017	4294330.838	9768	04-Nov-13	11042013-002.SSF	159162.2168	15315
722253.838	4294330.729	9814	04-Nov-13	11042013-002.SSF	159163.2319	15316
722253.712	4294330.724	9705	04-Nov-13	11042013-002.SSF	159164.229	15317
722253.69	4294330.877	9712	04-Nov-13	11042013-002.SSF	159165.335	15318
722253.6	4294330.957	9445	04-Nov-13	11042013-002.SSF	159166.0972	15319
722253.356	4294331.046	9850	04-Nov-13	11042013-002.SSF	159167.2212	15320
722253.226	4294331.212	10078	04-Nov-13	11042013-002.SSF	159168.1631	15321
722253.166	4294331.345	10109	04-Nov-13	11042013-002.SSF	159169.2168	15322
722253.133	4294331.37	10501	04-Nov-13	11042013-002.SSF	159170.1831	15323
722253.087	4294331.369	10534	04-Nov-13	11042013-002.SSF	159171.2642	15324
722253.009	4294331.332	10328	04-Nov-13	11042013-002.SSF	159172.207	15325
722252.99	4294331.332	10197	04-Nov-13	11042013-002.SSF	159173.2588	15326
722253.203	4294331.36	9433	04-Nov-13	11042013-002.SSF	159174.2241	15327
722253.433	4294331.329	9303	04-Nov-13	11042013-002.SSF	159175.334	15328
722253.582	4294331.188	9396	04-Nov-13	11042013-002.SSF	159176.248	15329
722253.678	4294331.047	10025	04-Nov-13	11042013-002.SSF	159177.3398	15330
722253.73	4294331.001	10056	04-Nov-13	11042013-002.SSF	159178.2051	15331
722253.797	4294330.996	9722	04-Nov-13	11042013-002.SSF	159179.4102	15332
722253.883	4294330.965	9511	04-Nov-13	11042013-002.SSF	159180.188	15333
722253.958	4294330.925	10067	04-Nov-13	11042013-002.SSF	159181.2939	15334
722254.032	4294330.863	10095	04-Nov-13	11042013-002.SSF	159182.1631	15335
722254.137	4294330.749	9796	04-Nov-13	11042013-002.SSF	159183.2798	15336
722254.164	4294330.676	9882	04-Nov-13	11042013-002.SSF	159184.1699	15337
722254.271	4294330.555	9819	04-Nov-13	11042013-002.SSF	159185.1938	15338
722254.326	4294330.435	9528	04-Nov-13	11042013-002.SSF	159186.2651	15339
722254.384	4294330.389	9132	04-Nov-13	11042013-002.SSF	159187.3281	15340
722254.393	4294330.382	8774	04-Nov-13	11042013-002.SSF	159188.2471	15341
722254.497	4294330.334	8858	04-Nov-13	11042013-002.SSF	159189.3062	15342
722254.57	4294330.302	8717	04-Nov-13	11042013-002.SSF	159190.2578	15343
722254.607	4294330.343	9328	04-Nov-13	11042013-002.SSF	159191.3062	15344
722254.667	4294330.427	9387	04-Nov-13	11042013-002.SSF	159192.2012	15345
722254.692	4294330.456	8655	04-Nov-13	11042013-002.SSF	159193.3062	15346
722254.734	4294330.316	8596	04-Nov-13	11042013-002.SSF	159194.2061	15347
722254.852	4294330.222	8570	04-Nov-13	11042013-002.SSF	159195.2808	15348
722255.248	4294330.29	9483	04-Nov-13	11042013-002.SSF	159216.1558	15349
722255.229	4294330.236	9287	04-Nov-13	11042013-002.SSF	159217.248	15350
722255.271	4294330.115	9798	04-Nov-13	11042013-002.SSF	159218.2319	15351
722255.336	4294329.976	9644	04-Nov-13	11042013-002.SSF	159219.1919	15352
722255.473	4294330.051	9490	04-Nov-13	11042013-002.SSF	159220.062	15353
722255.513	4294330.046	9290	04-Nov-13	11042013-002.SSF	159221.1519	15354
722255.741	4294329.964	9276	04-Nov-13	11042013-002.SSF	159222.189	15355

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722255.952	4294329.911	9177	04-Nov-13	11042013-002.SSF	159223.2231	15356
722256.146	4294329.879	9370	04-Nov-13	11042013-002.SSF	159224.1792	15357
722256.313	4294329.908	10085	04-Nov-13	11042013-002.SSF	159225.3062	15358
722256.4	4294329.905	9528	04-Nov-13	11042013-002.SSF	159226.1621	15359
722256.257	4294330.089	9807	04-Nov-13	11042013-002.SSF	159227.3379	15360
722256.027	4294330.297	10144	04-Nov-13	11042013-002.SSF	159228.1909	15361
722255.749	4294330.59	9756	04-Nov-13	11042013-002.SSF	159229.3081	15362
722255.468	4294330.849	9575	04-Nov-13	11042013-002.SSF	159230.1841	15363
722255.423	4294330.965	9946	04-Nov-13	11042013-002.SSF	159231.1479	15364
722255.687	4294331.034	9989	04-Nov-13	11042013-002.SSF	159232.0972	15365
722255.927	4294331.154	9174	04-Nov-13	11042013-002.SSF	159233.2168	15366
722256.011	4294331.299	9427	04-Nov-13	11042013-002.SSF	159234.106	15367
722256.032	4294331.506	9630	04-Nov-13	11042013-002.SSF	159235.1841	15368
722256.104	4294331.643	9632	04-Nov-13	11042013-002.SSF	159236.2158	15369
722256.089	4294331.68	9978	04-Nov-13	11042013-002.SSF	159237.2451	15370
722255.64	4294331.34	9842	04-Nov-13	11042013-002.SSF	159238.187	15371
722255.309	4294330.954	9391	04-Nov-13	11042013-002.SSF	159239.1689	15372
722254.973	4294330.338	9383	04-Nov-13	11042013-002.SSF	159240.0981	15373
722255.085	4294329.992	9934	04-Nov-13	11042013-002.SSF	159241.2402	15374
722255.121	4294329.903	9413	04-Nov-13	11042013-002.SSF	159242.2012	15375
722254.937	4294329.425	8840	04-Nov-13	11042013-002.SSF	159244.083	15376
722254.81	4294328.484	8317	04-Nov-13	11042013-002.SSF	159245.2979	15377
722254.714	4294327.823	8121	04-Nov-13	11042013-002.SSF	159246.1982	15378
722254.351	4294327.347	8303	04-Nov-13	11042013-002.SSF	159247.168	15379
722253.741	4294326.905	7640	04-Nov-13	11042013-002.SSF	159248.1992	15380
722253.138	4294326.85	7327	04-Nov-13	11042013-002.SSF	159249.2061	15381
722252.223	4294326.587	7549	04-Nov-13	11042013-002.SSF	159250.1641	15382
722251.793	4294326.196	7711	04-Nov-13	11042013-002.SSF	159251.1611	15383
722251.792	4294325.974	6925	04-Nov-13	11042013-002.SSF	159252.0898	15384
722251.66	4294325.769	7428	04-Nov-13	11042013-002.SSF	159253.2402	15385
722251.473	4294325.557	7268	04-Nov-13	11042013-002.SSF	159254.207	15386
722251.122	4294325.194	7433	04-Nov-13	11042013-002.SSF	159255.3188	15387
722250.884	4294325.05	6873	04-Nov-13	11042013-002.SSF	159256.1982	15388
722250.171	4294325.15	6626	04-Nov-13	11042013-002.SSF	159257.2412	15389
722248.809	4294325.363	6637	04-Nov-13	11042013-002.SSF	159258.2378	15390
722246.781	4294325.324	6013	04-Nov-13	11042013-002.SSF	159259.3198	15391
722245.385	4294325.127	5490	04-Nov-13	11042013-002.SSF	159260.0962	15392
722243.209	4294324.476	5090	04-Nov-13	11042013-002.SSF	159261.2979	15393
722242.125	4294323.836	4641	04-Nov-13	11042013-002.SSF	159262.1958	15394
722240.953	4294323.058	4995	04-Nov-13	11042013-002.SSF	159263.2822	15395
722239.863	4294322.217	4947	04-Nov-13	11042013-002.SSF	159264.187	15396
722238.643	4294321.126	5190	04-Nov-13	11042013-002.SSF	159265.314	15397
722237.851	4294320.4	5304	04-Nov-13	11042013-002.SSF	159266.2061	15398
722237.009	4294319.818	5256	04-Nov-13	11042013-002.SSF	159267.2632	15399
722237.101	4294319.41	5116	04-Nov-13	11042013-002.SSF	159268.2959	15400
722237.219	4294319.288	5158	04-Nov-13	11042013-002.SSF	159269.2432	15401
722237.115	4294319.723	5310	04-Nov-13	11042013-002.SSF	159274.1338	15402

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722237.11	4294319.751	5290	04-Nov-13	11042013-002.SSF	159275.2002	15403
722237.058	4294319.827	5855	04-Nov-13	11042013-002.SSF	159276.2021	15404
722234.994	4294310.481	5955	05-Nov-13	11052013-001.SSF	222340.093	15405
722234.949	4294310.434	5742	05-Nov-13	11052013-001.SSF	222341.205	15406
722234.918	4294310.389	5637	05-Nov-13	11052013-001.SSF	222342.114	15407
722234.914	4294310.403	5886	05-Nov-13	11052013-001.SSF	222343.241	15408
722234.882	4294310.373	5786	05-Nov-13	11052013-001.SSF	222344.188	15409
722234.866	4294310.358	6352	05-Nov-13	11052013-001.SSF	222345.109	15410
722234.856	4294310.336	6385	05-Nov-13	11052013-001.SSF	222346.037	15411
722234.739	4294310.164	6239	05-Nov-13	11052013-001.SSF	222347.187	15412
722234.738	4294310.135	6029	05-Nov-13	11052013-001.SSF	222348.035	15413
722234.735	4294310.09	5926	05-Nov-13	11052013-001.SSF	222349.125	15414
722234.769	4294310.066	5808	05-Nov-13	11052013-001.SSF	222350.212	15415
722234.797	4294310.055	5742	05-Nov-13	11052013-001.SSF	222351.234	15416
722234.792	4294310	5330	05-Nov-13	11052013-001.SSF	222352.172	15417
722234.826	4294309.942	5615	05-Nov-13	11052013-001.SSF	222353.309	15418
722234.856	4294309.923	5881	05-Nov-13	11052013-001.SSF	222354.112	15419
722234.876	4294309.955	5955	05-Nov-13	11052013-001.SSF	222355.201	15420
722234.872	4294309.884	6050	05-Nov-13	11052013-001.SSF	222356.169	15421
722234.77	4294309.825	5878	05-Nov-13	11052013-001.SSF	222357.265	15422
722234.729	4294309.781	5706	05-Nov-13	11052013-001.SSF	222358.186	15423
722234.772	4294309.806	5992	05-Nov-13	11052013-001.SSF	222359.157	15424
722234.768	4294309.777	6070	05-Nov-13	11052013-001.SSF	222360.162	15425
722234.747	4294309.75	5762	05-Nov-13	11052013-001.SSF	222361.129	15426
722234.756	4294309.712	6046	05-Nov-13	11052013-001.SSF	222362.099	15427
722234.769	4294309.701	5628	05-Nov-13	11052013-001.SSF	222363.299	15428
722234.788	4294309.746	5611	05-Nov-13	11052013-001.SSF	222364.134	15429
722234.847	4294309.747	5848	05-Nov-13	11052013-001.SSF	222365.109	15430
722234.885	4294309.793	5817	05-Nov-13	11052013-001.SSF	222366.138	15431
722234.825	4294309.68	5859	05-Nov-13	11052013-001.SSF	222367.159	15432
722234.729	4294309.558	5568	05-Nov-13	11052013-001.SSF	222368.095	15433
722234.653	4294309.496	6087	05-Nov-13	11052013-001.SSF	222369.195	15434
722234.607	4294309.449	5921	05-Nov-13	11052013-001.SSF	222370.158	15435
722234.518	4294309.31	5430	05-Nov-13	11052013-001.SSF	222371.174	15436
722234.476	4294309.279	5372	05-Nov-13	11052013-001.SSF	222372.105	15437
722234.371	4294309.065	5617	05-Nov-13	11052013-001.SSF	222373.191	15438
722234.358	4294309.032	5372	05-Nov-13	11052013-001.SSF	222374.102	15439
722234.373	4294308.997	5467	05-Nov-13	11052013-001.SSF	222375.219	15440
722234.334	4294308.907	5482	05-Nov-13	11052013-001.SSF	222376.055	15441
722234.277	4294308.8	5596	05-Nov-13	11052013-001.SSF	222377.239	15442
722234.224	4294308.908	5390	05-Nov-13	11052013-001.SSF	222378.148	15443
722234.102	4294308.766	5297	05-Nov-13	11052013-001.SSF	222379.138	15444
722234.141	4294308.733	6106	05-Nov-13	11052013-001.SSF	222381.284	15446
722234.179	4294308.703	6127	05-Nov-13	11052013-001.SSF	222382.172	15447
722234.295	4294308.713	6199	05-Nov-13	11052013-001.SSF	222383.314	15448
722234.347	4294308.65	6119	05-Nov-13	11052013-001.SSF	222384.134	15449
722234.333	4294308.618	5947	05-Nov-13	11052013-001.SSF	222385.184	15450

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722234.38	4294308.76	6210	05-Nov-13	11052013-001.SSF	222386.207	15451
722234.407	4294308.89	6200	05-Nov-13	11052013-001.SSF	222387.152	15452
722234.421	4294308.941	5925	05-Nov-13	11052013-001.SSF	222388.191	15453
722234.384	4294308.884	6168	05-Nov-13	11052013-001.SSF	222389.223	15454
722234.334	4294308.934	6216	05-Nov-13	11052013-001.SSF	222390.131	15455
722234.303	4294308.914	6106	05-Nov-13	11052013-001.SSF	222391.258	15456
722234.284	4294308.91	6082	05-Nov-13	11052013-001.SSF	222392.203	15457
722234.251	4294308.918	6338	05-Nov-13	11052013-001.SSF	222393.207	15458
722234.23	4294308.901	5718	05-Nov-13	11052013-001.SSF	222394.115	15459
722234.209	4294308.882	5586	05-Nov-13	11052013-001.SSF	222395.303	15460
722234.196	4294308.863	5617	05-Nov-13	11052013-001.SSF	222396.191	15461
722234.217	4294308.899	5402	05-Nov-13	11052013-001.SSF	222397.16	15462
722234.315	4294308.981	5663	05-Nov-13	11052013-001.SSF	222398.101	15463
722234.427	4294309.068	5600	05-Nov-13	11052013-001.SSF	222399.283	15464
722234.392	4294309.026	5468	05-Nov-13	11052013-001.SSF	222400.103	15465
722234.35	4294309.04	5580	05-Nov-13	11052013-001.SSF	222401.198	15466
722234.315	4294309.016	5351	05-Nov-13	11052013-001.SSF	222402.141	15467
722234.267	4294308.962	5432	05-Nov-13	11052013-001.SSF	222403.276	15468
722234.21	4294308.915	5103	05-Nov-13	11052013-001.SSF	222404.196	15469
722234.196	4294308.898	5458	05-Nov-13	11052013-001.SSF	222405.207	15470
722234.201	4294308.893	6182	05-Nov-13	11052013-001.SSF	222406.102	15471
722234.237	4294308.909	6447	05-Nov-13	11052013-001.SSF	222407.327	15472
722234.269	4294308.927	5914	05-Nov-13	11052013-001.SSF	222408.242	15473
722234.299	4294308.979	5839	05-Nov-13	11052013-001.SSF	222409.248	15474
722234.306	4294308.998	5939	05-Nov-13	11052013-001.SSF	222410.249	15475
722234.353	4294309.011	5486	05-Nov-13	11052013-001.SSF	222411.253	15476
722234.384	4294309.023	5291	05-Nov-13	11052013-001.SSF	222412.091	15477
722234.409	4294309.021	5713	05-Nov-13	11052013-001.SSF	222413.208	15478
722234.437	4294309.042	5636	05-Nov-13	11052013-001.SSF	222414.095	15479
722234.443	4294309.045	6050	05-Nov-13	11052013-001.SSF	222415.282	15480
722234.482	4294309.09	5571	05-Nov-13	11052013-001.SSF	222416.087	15481
722234.47	4294309.077	5721	05-Nov-13	11052013-001.SSF	222417.294	15482
722234.487	4294309.085	6300	05-Nov-13	11052013-001.SSF	222418.154	15483
722234.521	4294309.108	6139	05-Nov-13	11052013-001.SSF	222419.274	15484
722234.515	4294309.108	6160	05-Nov-13	11052013-001.SSF	222420.079	15485
722234.495	4294309.113	6180	05-Nov-13	11052013-001.SSF	222421.17	15486
722234.504	4294309.117	5763	05-Nov-13	11052013-001.SSF	222422.198	15487
722234.544	4294309.161	6047	05-Nov-13	11052013-001.SSF	222423.221	15488
722234.569	4294309.159	5614	05-Nov-13	11052013-001.SSF	222424.22	15489
722234.541	4294309.118	5737	05-Nov-13	11052013-001.SSF	222425.314	15490
722234.52	4294309.072	6250	05-Nov-13	11052013-001.SSF	222426.187	15491
722234.521	4294309.055	6290	05-Nov-13	11052013-001.SSF	222427.238	15492
722234.547	4294309.064	6096	05-Nov-13	11052013-001.SSF	222428.15	15493
722234.548	4294309.055	6271	05-Nov-13	11052013-001.SSF	222429.242	15494
722234.518	4294309.002	6122	05-Nov-13	11052013-001.SSF	222430.074	15495
722234.517	4294308.969	5986	05-Nov-13	11052013-001.SSF	222431.163	15496
722234.552	4294308.96	6127	05-Nov-13	11052013-001.SSF	222432.027	15497

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.66	4294308.977	6356	05-Nov-13	11052013-001.SSF	222433.177	15498
722234.675	4294308.95	6050	05-Nov-13	11052013-001.SSF	222434.106	15499
722234.704	4294308.953	6111	05-Nov-13	11052013-001.SSF	222435.247	15500
722234.697	4294308.93	5770	05-Nov-13	11052013-001.SSF	222436.066	15501
722234.708	4294308.907	5893	05-Nov-13	11052013-001.SSF	222437.213	15502
722234.715	4294308.903	5872	05-Nov-13	11052013-001.SSF	222438.202	15503
722234.734	4294308.916	5793	05-Nov-13	11052013-001.SSF	222439.205	15504
722234.768	4294308.952	5178	05-Nov-13	11052013-001.SSF	222440.033	15505
722234.815	4294308.992	5650	05-Nov-13	11052013-001.SSF	222441.015	15506
722234.845	4294309.026	5863	05-Nov-13	11052013-001.SSF	222441.964	15507
722234.874	4294309.075	5750	05-Nov-13	11052013-001.SSF	222443.102	15508
722234.875	4294309.078	5604	05-Nov-13	11052013-001.SSF	222444.084	15509
722234.926	4294309.144	6017	05-Nov-13	11052013-001.SSF	222445.256	15510
722234.964	4294309.24	6025	05-Nov-13	11052013-001.SSF	222446.173	15511
722235.041	4294309.36	5766	05-Nov-13	11052013-001.SSF	222447.324	15512
722235.068	4294309.425	5928	05-Nov-13	11052013-001.SSF	222448.136	15513
722235.094	4294309.458	5772	05-Nov-13	11052013-001.SSF	222449.185	15514
722235.112	4294309.467	5482	05-Nov-13	11052013-001.SSF	222450.062	15515
722235.255	4294309.549	6106	05-Nov-13	11052013-001.SSF	222451.284	15516
722235.435	4294309.745	5947	05-Nov-13	11052013-001.SSF	222452.161	15517
722235.579	4294309.926	6330	05-Nov-13	11052013-001.SSF	222453.249	15518
722235.717	4294310.038	5938	05-Nov-13	11052013-001.SSF	222454.186	15519
722235.906	4294310.265	6003	05-Nov-13	11052013-001.SSF	222455.279	15520
722236.084	4294310.458	6174	05-Nov-13	11052013-001.SSF	222456.111	15521
722236.233	4294310.63	6225	05-Nov-13	11052013-001.SSF	222457.313	15522
722236.298	4294310.706	6259	05-Nov-13	11052013-001.SSF	222458.125	15523
722236.473	4294310.931	6285	05-Nov-13	11052013-001.SSF	222459.292	15524
722236.551	4294311.018	6633	05-Nov-13	11052013-001.SSF	222460.141	15525
722236.59	4294311.101	6648	05-Nov-13	11052013-001.SSF	222461.107	15526
722236.723	4294311.241	6507	05-Nov-13	11052013-001.SSF	222462.098	15527
722236.67	4294311.288	5782	05-Nov-13	11052013-001.SSF	222463.058	15528
722236.694	4294311.354	6087	05-Nov-13	11052013-001.SSF	222464.046	15529
722236.731	4294311.474	6454	05-Nov-13	11052013-001.SSF	222465.126	15530
722236.775	4294311.393	6135	05-Nov-13	11052013-001.SSF	222466.069	15531
722236.768	4294311.477	5228	05-Nov-13	11052013-001.SSF	222467.131	15532
722236.678	4294311.306	5926	05-Nov-13	11052013-001.SSF	222467.996	15533
722236.689	4294311.305	6168	05-Nov-13	11052013-001.SSF	222469.071	15534
722236.528	4294311.184	5929	05-Nov-13	11052013-001.SSF	222470.195	15535
722236.396	4294311.024	6500	05-Nov-13	11052013-001.SSF	222471.158	15536
722236.454	4294311.088	6536	05-Nov-13	11052013-001.SSF	222472.049	15537
722236.502	4294311.127	5934	05-Nov-13	11052013-001.SSF	222473.166	15538
722236.534	4294311.157	6000	05-Nov-13	11052013-001.SSF	222474.012	15539
722236.557	4294311.201	6427	05-Nov-13	11052013-001.SSF	222475.249	15540
722236.582	4294311.236	6398	05-Nov-13	11052013-001.SSF	222476.146	15541
722236.603	4294311.276	5939	05-Nov-13	11052013-001.SSF	222477.209	15542
722236.653	4294311.334	5493	05-Nov-13	11052013-001.SSF	222478.18	15543
722236.699	4294311.391	5685	05-Nov-13	11052013-001.SSF	222479.279	15544

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722236.696	4294311.374	5732	05-Nov-13	11052013-001.SSF	222480.061	15545
722236.7	4294311.37	5782	05-Nov-13	11052013-001.SSF	222481.079	15546
722236.701	4294311.333	6095	05-Nov-13	11052013-001.SSF	222482.078	15547
722236.685	4294311.313	5873	05-Nov-13	11052013-001.SSF	222483.093	15548
722236.673	4294311.304	5748	05-Nov-13	11052013-001.SSF	222484.025	15549
722236.666	4294311.294	5611	05-Nov-13	11052013-001.SSF	222485.132	15550
722236.65	4294311.263	5803	05-Nov-13	11052013-001.SSF	222486.236	15551
722236.595	4294311.181	5769	05-Nov-13	11052013-001.SSF	222487.188	15552
722236.532	4294311.105	5713	05-Nov-13	11052013-001.SSF	222488.127	15553
722236.566	4294311.169	5628	05-Nov-13	11052013-001.SSF	222489.179	15554
722236.606	4294311.227	5401	05-Nov-13	11052013-001.SSF	222490.056	15555
722236.693	4294311.316	5835	05-Nov-13	11052013-001.SSF	222491.205	15556
722236.762	4294311.347	5562	05-Nov-13	11052013-001.SSF	222492.059	15557
722236.815	4294311.394	5491	05-Nov-13	11052013-001.SSF	222493.216	15558
722236.83	4294311.403	5414	05-Nov-13	11052013-001.SSF	222494.091	15559
722236.887	4294311.398	5707	05-Nov-13	11052013-001.SSF	222495.141	15560
722236.972	4294311.431	5963	05-Nov-13	11052013-001.SSF	222496.035	15561
722236.953	4294311.401	5881	05-Nov-13	11052013-001.SSF	222497.056	15562
722236.933	4294311.374	5761	05-Nov-13	11052013-001.SSF	222498.034	15563
722236.958	4294311.384	5850	05-Nov-13	11052013-001.SSF	222499.124	15564
722236.994	4294311.424	6343	05-Nov-13	11052013-001.SSF	222500.106	15565
722237.019	4294311.436	6260	05-Nov-13	11052013-001.SSF	222501.203	15566
722237.036	4294311.463	6356	05-Nov-13	11052013-001.SSF	222502.053	15567
722237.056	4294311.54	6073	05-Nov-13	11052013-001.SSF	222503.126	15568
722237.067	4294311.616	6288	05-Nov-13	11052013-001.SSF	222504.095	15569
722237.035	4294311.682	6057	05-Nov-13	11052013-001.SSF	222505.194	15570
722236.997	4294311.706	5874	05-Nov-13	11052013-001.SSF	222506.077	15571
722236.948	4294311.713	5806	05-Nov-13	11052013-001.SSF	222510.247	15573
722236.965	4294311.71	5853	05-Nov-13	11052013-001.SSF	222511.228	15574
722236.973	4294311.698	5557	05-Nov-13	11052013-001.SSF	222512.058	15575
722236.966	4294311.665	5676	05-Nov-13	11052013-001.SSF	222513.098	15576
722236.965	4294311.647	5855	05-Nov-13	11052013-001.SSF	222514.091	15577
722236.961	4294311.622	5911	05-Nov-13	11052013-001.SSF	222515.057	15578
722236.883	4294311.48	6100	05-Nov-13	11052013-001.SSF	222516.051	15579
722236.845	4294311.419	5883	05-Nov-13	11052013-001.SSF	222517.048	15580
722236.848	4294311.411	5942	05-Nov-13	11052013-001.SSF	222518.049	15581
722236.792	4294311.441	5967	05-Nov-13	11052013-001.SSF	222519.114	15582
722236.752	4294311.438	6026	05-Nov-13	11052013-001.SSF	222519.968	15583
722236.607	4294311.222	5962	05-Nov-13	11052013-001.SSF	222521.243	15584
722236.527	4294311.18	5453	05-Nov-13	11052013-001.SSF	222522.023	15585
722236.133	4294310.855	5490	05-Nov-13	11052013-001.SSF	222523.219	15586
722235.769	4294310.532	5503	05-Nov-13	11052013-001.SSF	222524.088	15587
722235.494	4294310.125	5698	05-Nov-13	11052013-001.SSF	222525.231	15588
722235.426	4294310.031	5492	05-Nov-13	11052013-001.SSF	222525.999	15589
722235.359	4294309.91	5699	05-Nov-13	11052013-001.SSF	222527.224	15590
722235.288	4294309.788	5636	05-Nov-13	11052013-001.SSF	222528.17	15591
722235.245	4294309.704	5457	05-Nov-13	11052013-001.SSF	222529.147	15592

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722235.232	4294309.523	5786	05-Nov-13	11052013-001.SSF	222531.09	15594
722235.204	4294309.467	5729	05-Nov-13	11052013-001.SSF	222532.087	15595
722235.15	4294309.419	6103	05-Nov-13	11052013-001.SSF	222533.091	15596
722235.086	4294309.39	5847	05-Nov-13	11052013-001.SSF	222534.022	15597
722235.113	4294309.358	5479	05-Nov-13	11052013-001.SSF	222535.052	15598
722235.121	4294309.31	5602	05-Nov-13	11052013-001.SSF	222536.005	15599
722235.068	4294309.324	5896	05-Nov-13	11052013-001.SSF	222537.184	15600
722235.031	4294309.399	5934	05-Nov-13	11052013-001.SSF	222538.026	15601
722234.984	4294309.428	5872	05-Nov-13	11052013-001.SSF	222539.083	15602
722235.021	4294309.374	5493	05-Nov-13	11052013-001.SSF	222540.126	15603
722235.046	4294309.377	5812	05-Nov-13	11052013-001.SSF	222541.226	15604
722235.021	4294309.408	5797	05-Nov-13	11052013-001.SSF	222542.032	15605
722234.981	4294309.482	5923	05-Nov-13	11052013-001.SSF	222543.249	15606
722234.998	4294309.476	5739	05-Nov-13	11052013-001.SSF	222544.13	15607
722235.065	4294309.387	5936	05-Nov-13	11052013-001.SSF	222545.148	15608
722235.106	4294309.368	5529	05-Nov-13	11052013-001.SSF	222545.994	15609
722235.14	4294309.34	5862	05-Nov-13	11052013-001.SSF	222547.087	15610
722235.143	4294309.291	6365	05-Nov-13	11052013-001.SSF	222548.022	15611
722235.128	4294309.341	6018	05-Nov-13	11052013-001.SSF	222549.087	15612
722235.094	4294309.356	6002	05-Nov-13	11052013-001.SSF	222550.03	15613
722235.086	4294309.363	5979	05-Nov-13	11052013-001.SSF	222551.096	15614
722235.027	4294309.366	5755	05-Nov-13	11052013-001.SSF	222552.168	15615
722234.989	4294309.412	6605	05-Nov-13	11052013-001.SSF	222553.096	15616
722235.03	4294309.39	6565	05-Nov-13	11052013-001.SSF	222554.083	15617
722235.042	4294309.352	6085	05-Nov-13	11052013-001.SSF	222555.197	15618
722235.079	4294309.309	6213	05-Nov-13	11052013-001.SSF	222556.013	15619
722235.119	4294309.234	5857	05-Nov-13	11052013-001.SSF	222557.264	15620
722235.142	4294309.193	5687	05-Nov-13	11052013-001.SSF	222558.142	15621
722235.212	4294309.164	5696	05-Nov-13	11052013-001.SSF	222559.281	15622
722235.26	4294309.162	5799	05-Nov-13	11052013-001.SSF	222560.08	15623
722235.301	4294309.146	5707	05-Nov-13	11052013-001.SSF	222561.289	15624
722235.329	4294309.165	5805	05-Nov-13	11052013-001.SSF	222562.064	15625
722235.329	4294309.2	5628	05-Nov-13	11052013-001.SSF	222563.07	15626
722235.342	4294309.237	5498	05-Nov-13	11052013-001.SSF	222564.017	15627
722235.282	4294309.4	6552	05-Nov-13	11052013-001.SSF	222571.235	15629
722236.381	4294310.114	5071	05-Nov-13	11052013-001.SSF	222647.076	15630
722236.442	4294310.154	5125	05-Nov-13	11052013-001.SSF	222647.928	15631
722236.432	4294310.21	5358	05-Nov-13	11052013-001.SSF	222649.072	15632
722236.522	4294310.246	5766	05-Nov-13	11052013-001.SSF	222650.08	15633
722236.504	4294310.241	5928	05-Nov-13	11052013-001.SSF	222651.104	15634
722236.489	4294310.185	5526	05-Nov-13	11052013-001.SSF	222652.015	15635
722236.503	4294310.137	5438	05-Nov-13	11052013-001.SSF	222653.106	15636
722236.55	4294310.155	5569	05-Nov-13	11052013-001.SSF	222655.035	15638
722236.558	4294310.165	5742	05-Nov-13	11052013-001.SSF	222656.04	15639
722236.627	4294310.225	6005	05-Nov-13	11052013-001.SSF	222657.183	15640
722236.672	4294310.27	5770	05-Nov-13	11052013-001.SSF	222658.165	15641

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722236.638	4294310.316	5605	05-Nov-13	11052013-001.SSF	222660.059	15643
722236.606	4294310.259	5673	05-Nov-13	11052013-001.SSF	222661.14	15644
722236.569	4294310.196	5883	05-Nov-13	11052013-001.SSF	222662.016	15645
722236.389	4294310.166	5529	05-Nov-13	11052013-001.SSF	222663.197	15646
722236.26	4294310.17	5615	05-Nov-13	11052013-001.SSF	222664.044	15647
722236.222	4294310.161	6481	05-Nov-13	11052013-001.SSF	222665.073	15648
722236.17	4294310.133	6285	05-Nov-13	11052013-001.SSF	222665.971	15649
722236.215	4294310.243	6535	05-Nov-13	11052013-001.SSF	222667.088	15650
722236.164	4294310.28	6233	05-Nov-13	11052013-001.SSF	222667.937	15651
722236.12	4294310.238	5921	05-Nov-13	11052013-001.SSF	222669.066	15652
722236.104	4294310.219	6053	05-Nov-13	11052013-001.SSF	222669.933	15653
722236.142	4294310.205	5692	05-Nov-13	11052013-001.SSF	222671.048	15654
722236.128	4294310.218	6577	05-Nov-13	11052013-001.SSF	222672.097	15655
722236.08	4294310.205	6107	05-Nov-13	11052013-001.SSF	222673.156	15656
722236.041	4294310.245	5880	05-Nov-13	11052013-001.SSF	222673.938	15657
722236.013	4294310.303	6375	05-Nov-13	11052013-001.SSF	222675.128	15658
722236.041	4294310.348	6278	05-Nov-13	11052013-001.SSF	222676.134	15659
722236.044	4294310.372	6479	05-Nov-13	11052013-001.SSF	222677.063	15660
722236.052	4294310.358	5827	05-Nov-13	11052013-001.SSF	222677.912	15661
722235.995	4294310.37	5700	05-Nov-13	11052013-001.SSF	222679.122	15662
722236.028	4294310.351	5913	05-Nov-13	11052013-001.SSF	222679.936	15663
722236.034	4294310.341	5906	05-Nov-13	11052013-001.SSF	222680.936	15664
722236.014	4294310.335	6202	05-Nov-13	11052013-001.SSF	222681.935	15665
722236.015	4294310.294	6413	05-Nov-13	11052013-001.SSF	222683.022	15666
722235.972	4294310.283	6210	05-Nov-13	11052013-001.SSF	222684.021	15667
722235.895	4294310.246	6613	05-Nov-13	11052013-001.SSF	222685.161	15668
722235.836	4294310.169	6382	05-Nov-13	11052013-001.SSF	222685.985	15669
722235.676	4294310.113	6597	05-Nov-13	11052013-001.SSF	222687.116	15670
722235.615	4294310.056	6373	05-Nov-13	11052013-001.SSF	222688.034	15671
722235.503	4294310.08	5917	05-Nov-13	11052013-001.SSF	222688.965	15672
722235.085	4294310.882	6028	05-Nov-13	11052013-001.SSF	222690.159	15673
722235.538	4294311.965	6301	05-Nov-13	11052013-001.SSF	222691.086	15674
722235.676	4294312.174	6146	05-Nov-13	11052013-001.SSF	222692.087	15675
722236.065	4294312.168	6375	05-Nov-13	11052013-001.SSF	222693.102	15676
722235.731	4294312.024	6091	05-Nov-13	11052013-001.SSF	222694.137	15677
722235.679	4294312.203	5811	05-Nov-13	11052013-001.SSF	222695.063	15678
722235.893	4294312.26	6299	05-Nov-13	11052013-001.SSF	222696.037	15679
722236.223	4294312.589	6250	05-Nov-13	11052013-001.SSF	222697.115	15680
722236.243	4294312.775	6523	05-Nov-13	11052013-001.SSF	222697.938	15681
722236.195	4294313.028	5964	05-Nov-13	11052013-001.SSF	222699.072	15682
722236.148	4294313.239	6107	05-Nov-13	11052013-001.SSF	222700.028	15683
722236.256	4294313.443	6765	05-Nov-13	11052013-001.SSF	222701.027	15684
722236.347	4294313.478	6528	05-Nov-13	11052013-001.SSF	222701.932	15685
722236.109	4294313.495	6169	05-Nov-13	11052013-001.SSF	222702.98	15686
722235.94	4294313.648	5765	05-Nov-13	11052013-001.SSF	222704.022	15687
722235.808	4294313.599	5740	05-Nov-13	11052013-001.SSF	222705.118	15688

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722235.743	4294313.704	6262	05-Nov-13	11052013-001.SSF	222707.924	15691
722235.851	4294313.776	6312	05-Nov-13	11052013-001.SSF	222709.078	15692
722235.954	4294313.855	5995	05-Nov-13	11052013-001.SSF	222709.985	15693
722236.08	4294313.872	6170	05-Nov-13	11052013-001.SSF	222711.088	15694
722236.144	4294313.822	6365	05-Nov-13	11052013-001.SSF	222712	15695
722236.252	4294313.794	6213	05-Nov-13	11052013-001.SSF	222713.013	15696
722236.363	4294313.725	6270	05-Nov-13	11052013-001.SSF	222713.976	15697
722236.487	4294313.735	6346	05-Nov-13	11052013-001.SSF	222715.076	15698
722236.583	4294313.787	6352	05-Nov-13	11052013-001.SSF	222715.978	15699
722236.524	4294313.672	6070	05-Nov-13	11052013-001.SSF	222717.136	15700
722236.612	4294313.618	6197	05-Nov-13	11052013-001.SSF	222718.028	15701
722236.599	4294313.597	5556	05-Nov-13	11052013-001.SSF	222719.099	15702
722236.58	4294313.58	5855	05-Nov-13	11052013-001.SSF	222719.966	15703
722236.507	4294313.551	6083	05-Nov-13	11052013-001.SSF	222721.141	15704
722236.469	4294313.56	6167	05-Nov-13	11052013-001.SSF	222722.022	15705
722236.443	4294313.434	6341	05-Nov-13	11052013-001.SSF	222723.213	15706
722236.588	4294313.411	6357	05-Nov-13	11052013-001.SSF	222723.993	15707
722236.673	4294313.408	6853	05-Nov-13	11052013-001.SSF	222725.216	15708
722236.657	4294313.405	6180	05-Nov-13	11052013-001.SSF	222726.028	15709
722236.565	4294313.38	6303	05-Nov-13	11052013-001.SSF	222727.034	15710
722236.453	4294313.429	6216	05-Nov-13	11052013-001.SSF	222727.961	15711
722236.514	4294313.45	6069	05-Nov-13	11052013-001.SSF	222729.19	15712
722236.492	4294313.49	6256	05-Nov-13	11052013-001.SSF	222729.976	15713
722236.412	4294313.582	6489	05-Nov-13	11052013-001.SSF	222731.078	15714
722236.445	4294313.636	6207	05-Nov-13	11052013-001.SSF	222732.039	15715
722236.537	4294313.592	6266	05-Nov-13	11052013-001.SSF	222733.157	15716
722236.546	4294313.252	5445	05-Nov-13	11052013-001.SSF	222733.976	15717
722236.441	4294313.005	5298	05-Nov-13	11052013-001.SSF	222735.079	15718
722236.528	4294313.188	5440	05-Nov-13	11052013-001.SSF	222736.072	15719
722236.42	4294313.037	5910	05-Nov-13	11052013-001.SSF	222737.188	15720
722236.163	4294312.808	5694	05-Nov-13	11052013-001.SSF	222737.932	15721
722235.525	4294312.83	6053	05-Nov-13	11052013-001.SSF	222739.117	15722
722234.829	4294313.189	6502	05-Nov-13	11052013-001.SSF	222739.985	15723
722233.76	4294313.55	6492	05-Nov-13	11052013-001.SSF	222741.1	15724
722233.091	4294313.733	6922	05-Nov-13	11052013-001.SSF	222741.987	15725
722233.484	4294314.523	7178	05-Nov-13	11052013-001.SSF	222743.079	15726
722234.074	4294315.275	7135	05-Nov-13	11052013-001.SSF	222744.02	15727
722233.93	4294315.816	6953	05-Nov-13	11052013-001.SSF	222745.063	15728
722233.846	4294316.039	6596	05-Nov-13	11052013-001.SSF	222746.029	15729
722233.798	4294315.864	6080	05-Nov-13	11052013-001.SSF	222747.069	15730
722233.8	4294315.817	5970	05-Nov-13	11052013-001.SSF	222748.041	15731
722233.764	4294315.742	6208	05-Nov-13	11052013-001.SSF	222749.086	15732
722233.507	4294315.737	6094	05-Nov-13	11052013-001.SSF	222749.989	15733
722233.766	4294316.07	5933	05-Nov-13	11052013-001.SSF	222751.184	15734
722233.981	4294316.376	6000	05-Nov-13	11052013-001.SSF	222751.927	15735

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722234.245	4294316.263	6112	05-Nov-13	11052013-001.SSF	222753.163	15736
722234.345	4294316.18	5868	05-Nov-13	11052013-001.SSF	222753.928	15737
722234.183	4294316.276	5880	05-Nov-13	11052013-001.SSF	222755.062	15738
722233.889	4294316.594	6023	05-Nov-13	11052013-001.SSF	222755.976	15739
722234.315	4294317.003	6350	05-Nov-13	11052013-001.SSF	222757.166	15740
722234.795	4294317.359	6024	05-Nov-13	11052013-001.SSF	222757.961	15741
722235.151	4294318.256	6096	05-Nov-13	11052013-001.SSF	222759.119	15742
722235.242	4294318.856	6091	05-Nov-13	11052013-001.SSF	222759.977	15743
722235.489	4294319.09	6186	05-Nov-13	11052013-001.SSF	222761.223	15744
722235.406	4294319.146	6045	05-Nov-13	11052013-001.SSF	222762.073	15745
722235.231	4294319.242	5965	05-Nov-13	11052013-001.SSF	222763.15	15746
722235.188	4294319.26	5785	05-Nov-13	11052013-001.SSF	222764.107	15747
722235.178	4294319.279	5977	05-Nov-13	11052013-001.SSF	222765.043	15748
722235.11	4294319.35	5852	05-Nov-13	11052013-001.SSF	222765.935	15749
722235.124	4294319.337	5751	05-Nov-13	11052013-001.SSF	222766.969	15750
722235.158	4294319.265	6160	05-Nov-13	11052013-001.SSF	222767.852	15751
722235.158	4294319.157	6150	05-Nov-13	11052013-001.SSF	222769.151	15752
722235.168	4294319.135	6744	05-Nov-13	11052013-001.SSF	222769.863	15753
722235.168	4294319.114	6644	05-Nov-13	11052013-001.SSF	222771.01	15754
722235.13	4294319.082	6189	05-Nov-13	11052013-001.SSF	222771.977	15755
722235.118	4294319.098	6076	05-Nov-13	11052013-001.SSF	222773.061	15756
722235.072	4294319.16	6117	05-Nov-13	11052013-001.SSF	222773.93	15757
722235.061	4294319.218	6008	05-Nov-13	11052013-001.SSF	222775.078	15758
722235.056	4294319.205	5749	05-Nov-13	11052013-001.SSF	222776.031	15759
722235.08	4294319.202	6166	05-Nov-13	11052013-001.SSF	222777.145	15760
722235.09	4294319.16	6191	05-Nov-13	11052013-001.SSF	222777.947	15761
722235.097	4294319.089	6085	05-Nov-13	11052013-001.SSF	222779.125	15762
722235.107	4294319.09	5725	05-Nov-13	11052013-001.SSF	222780.072	15763
722235.116	4294319.067	5755	05-Nov-13	11052013-001.SSF	222781.018	15764
722235.084	4294319.078	5810	05-Nov-13	11052013-001.SSF	222781.911	15765
722235.059	4294319.075	5938	05-Nov-13	11052013-001.SSF	222783.108	15766
722235.094	4294319.052	6032	05-Nov-13	11052013-001.SSF	222783.97	15767
722235.021	4294319.053	6401	05-Nov-13	11052013-001.SSF	222785.079	15768
722234.969	4294319.042	6390	05-Nov-13	11052013-001.SSF	222786.046	15769
722234.96	4294319.076	5852	05-Nov-13	11052013-001.SSF	222787.081	15770
722234.978	4294319.049	6104	05-Nov-13	11052013-001.SSF	222788.045	15771
722235.027	4294319.018	6231	05-Nov-13	11052013-001.SSF	222789.089	15772
722234.879	4294319.053	5830	05-Nov-13	11052013-001.SSF	222789.999	15773
722235.036	4294319.113	5852	05-Nov-13	11052013-001.SSF	222791.079	15774
722235.142	4294319.153	5909	05-Nov-13	11052013-001.SSF	222791.905	15775
722235.104	4294319.312	5754	05-Nov-13	11052013-001.SSF	222793.018	15776
722235.024	4294319.392	5936	05-Nov-13	11052013-001.SSF	222793.978	15777
722235.004	4294319.306	5709	05-Nov-13	11052013-001.SSF	222795.077	15778
722235.05	4294319.231	5941	05-Nov-13	11052013-001.SSF	222795.984	15779
722235.09	4294319.191	5442	05-Nov-13	11052013-001.SSF	222797.18	15780
722235.103	4294319.18	5521	05-Nov-13	11052013-001.SSF	222797.93	15781
722235.117	4294319.142	5820	05-Nov-13	11052013-001.SSF	222799.118	15782

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722235.125	4294319.114	5509	05-Nov-13	11052013-001.SSF	222799.932	15783
722235.086	4294319.047	5978	05-Nov-13	11052013-001.SSF	222800.953	15784
722235.129	4294318.978	6430	05-Nov-13	11052013-001.SSF	222801.924	15785
722235.083	4294318.876	6174	05-Nov-13	11052013-001.SSF	222803.087	15786
722235.074	4294318.817	6293	05-Nov-13	11052013-001.SSF	222803.968	15787
722235.18	4294318.83	6465	05-Nov-13	11052013-001.SSF	222805.157	15788
722235.188	4294318.841	6704	05-Nov-13	11052013-001.SSF	222805.999	15789
722235.205	4294318.867	6763	05-Nov-13	11052013-001.SSF	222807.066	15790
722235.228	4294318.871	6872	05-Nov-13	11052013-001.SSF	222808.047	15791
722235.242	4294318.878	6025	05-Nov-13	11052013-001.SSF	222809.176	15792
722235.25	4294318.886	6157	05-Nov-13	11052013-001.SSF	222809.942	15793
722235.266	4294318.893	6343	05-Nov-13	11052013-001.SSF	222811.156	15794
722235.28	4294318.901	6073	05-Nov-13	11052013-001.SSF	222812.162	15795
722235.282	4294318.908	5853	05-Nov-13	11052013-001.SSF	222813.158	15796
722235.287	4294318.917	5745	05-Nov-13	11052013-001.SSF	222814.152	15797
722235.295	4294318.912	5579	05-Nov-13	11052013-001.SSF	222815.098	15798
722235.306	4294318.904	5778	05-Nov-13	11052013-001.SSF	222815.99	15799
722235.323	4294318.907	5920	05-Nov-13	11052013-001.SSF	222817.087	15800
722235.337	4294318.903	6375	05-Nov-13	11052013-001.SSF	222818.154	15801
722235.34	4294318.886	6166	05-Nov-13	11052013-001.SSF	222819.179	15802
722235.353	4294318.889	6363	05-Nov-13	11052013-001.SSF	222820.002	15803
722235.351	4294318.903	5912	05-Nov-13	11052013-001.SSF	222821.181	15804
722235.369	4294318.902	6250	05-Nov-13	11052013-001.SSF	222821.929	15805
722235.091	4294319.093	6201	05-Nov-13	11052013-001.SSF	222823.073	15806
722234.968	4294319.164	6105	05-Nov-13	11052013-001.SSF	222824.133	15807
722235.001	4294319.087	5992	05-Nov-13	11052013-001.SSF	222825.18	15808
722235.041	4294319.074	6115	05-Nov-13	11052013-001.SSF	222825.912	15809
722235.072	4294319.063	6192	05-Nov-13	11052013-001.SSF	222827.197	15810
722235.07	4294319.047	6070	05-Nov-13	11052013-001.SSF	222827.943	15811
722235.092	4294319.038	5942	05-Nov-13	11052013-001.SSF	222829.152	15812
722235.1	4294319.04	6402	05-Nov-13	11052013-001.SSF	222830.002	15813
722235.073	4294319.051	6608	05-Nov-13	11052013-001.SSF	222831.105	15814
722235.071	4294319.053	6815	05-Nov-13	11052013-001.SSF	222832.095	15815
722235.07	4294319.042	6390	05-Nov-13	11052013-001.SSF	222833.103	15816
722235.067	4294319.05	6197	05-Nov-13	11052013-001.SSF	222834.101	15817
722235.064	4294319.056	6298	05-Nov-13	11052013-001.SSF	222835.149	15818
722235.054	4294319.044	6663	05-Nov-13	11052013-001.SSF	222836.053	15819
722235.049	4294319.039	6462	05-Nov-13	11052013-001.SSF	222837.11	15820
722235.047	4294319.036	6605	05-Nov-13	11052013-001.SSF	222837.941	15821
722235.057	4294319.038	6460	05-Nov-13	11052013-001.SSF	222839.188	15822
722235.065	4294319.041	6079	05-Nov-13	11052013-001.SSF	222839.911	15823
722235.077	4294319.035	5752	05-Nov-13	11052013-001.SSF	222840.946	15824
722235.078	4294319.032	5973	05-Nov-13	11052013-001.SSF	222841.86	15825
722235.085	4294319.031	6315	05-Nov-13	11052013-001.SSF	222843.053	15826
722235.09	4294319.027	6372	05-Nov-13	11052013-001.SSF	222843.821	15827
722235.101	4294319.03	6006	05-Nov-13	11052013-001.SSF	222845.108	15828
722235.094	4294319.041	5853	05-Nov-13	11052013-001.SSF	222846.081	15829

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722235.048	4294319.002	5340	05-Nov-13	11052013-001.SSF	222846.972	15830
722235.353	4294318.919	5561	05-Nov-13	11052013-001.SSF	222847.911	15831
722235.489	4294318.903	5400	05-Nov-13	11052013-001.SSF	222848.949	15832
722235.364	4294318.949	5970	05-Nov-13	11052013-001.SSF	222849.907	15833
722235.286	4294318.97	5991	05-Nov-13	11052013-001.SSF	222851.128	15834
722235.28	4294318.958	6145	05-Nov-13	11052013-001.SSF	222851.916	15835
722235.27	4294318.956	6546	05-Nov-13	11052013-001.SSF	222852.974	15836
722235.256	4294318.942	6135	05-Nov-13	11052013-001.SSF	222853.98	15837
722235.228	4294318.921	5828	05-Nov-13	11052013-001.SSF	222855.04	15838
722235.221	4294318.915	5611	05-Nov-13	11052013-001.SSF	222855.81	15839
722235.205	4294318.914	5586	05-Nov-13	11052013-001.SSF	222857.093	15840
722235.182	4294318.916	5879	05-Nov-13	11052013-001.SSF	222857.866	15841
722235.168	4294318.91	5827	05-Nov-13	11052013-001.SSF	222859.01	15842
722235.162	4294318.906	5692	05-Nov-13	11052013-001.SSF	222859.952	15843
722235.163	4294318.903	5894	05-Nov-13	11052013-001.SSF	222861.032	15844
722235.173	4294318.931	6383	05-Nov-13	11052013-001.SSF	222861.837	15845
722235.129	4294319.019	6200	05-Nov-13	11052013-001.SSF	222863.044	15846
722235.158	4294319.077	6352	05-Nov-13	11052013-001.SSF	222863.946	15847
722235.197	4294319.085	6303	05-Nov-13	11052013-001.SSF	222864.998	15848
722235.16	4294319.074	5953	05-Nov-13	11052013-001.SSF	222865.826	15849
722235.129	4294319.068	6063	05-Nov-13	11052013-001.SSF	222867.02	15850
722235.05	4294319.14	6110	05-Nov-13	11052013-001.SSF	222867.828	15851
722235.242	4294319.327	6107	05-Nov-13	11052013-001.SSF	222869.015	15852
722235.242	4294319.349	5940	05-Nov-13	11052013-001.SSF	222869.972	15853
722235.225	4294319.249	5733	05-Nov-13	11052013-001.SSF	222870.988	15854
722235.233	4294319.213	5842	05-Nov-13	11052013-001.SSF	222871.937	15855
722235.09	4294319.191	5701	05-Nov-13	11052013-001.SSF	222873.06	15856
722235.227	4294319.367	6214	05-Nov-13	11052013-001.SSF	222873.947	15857
722235.078	4294319.876	5858	05-Nov-13	11052013-001.SSF	222875.036	15858
722234.947	4294320.156	5897	05-Nov-13	11052013-001.SSF	222875.998	15859
722234.837	4294320.3	5597	05-Nov-13	11052013-001.SSF	222877.079	15860
722234.774	4294320.298	5188	05-Nov-13	11052013-001.SSF	222877.932	15861
722234.853	4294320.287	5378	05-Nov-13	11052013-001.SSF	222878.969	15862
722234.923	4294320.364	5703	05-Nov-13	11052013-001.SSF	222879.936	15863
722234.985	4294320.373	5983	05-Nov-13	11052013-001.SSF	222880.926	15864
722235.027	4294320.382	5870	05-Nov-13	11052013-001.SSF	222881.859	15865
722234.968	4294320.614	5964	05-Nov-13	11052013-001.SSF	222883.002	15866
722234.895	4294320.687	6250	05-Nov-13	11052013-001.SSF	222883.955	15867
722234.928	4294320.542	6388	05-Nov-13	11052013-001.SSF	222885.039	15868
722234.99	4294320.496	6188	05-Nov-13	11052013-001.SSF	222885.792	15869
722235.035	4294320.441	6226	05-Nov-13	11052013-001.SSF	222886.973	15870
722235.049	4294320.449	5962	05-Nov-13	11052013-001.SSF	222887.777	15871
722235.062	4294320.466	5836	05-Nov-13	11052013-001.SSF	222888.915	15872
722235.064	4294320.464	5660	05-Nov-13	11052013-001.SSF	222889.78	15873
722235.077	4294320.48	6026	05-Nov-13	11052013-001.SSF	222891.047	15874
722235.093	4294320.498	5760	05-Nov-13	11052013-001.SSF	222891.852	15875
722235.102	4294320.516	5910	05-Nov-13	11052013-001.SSF	222893.174	15876

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722235.06	4294320.606	5994	05-Nov-13	11052013-001.SSF	222893.899	15877
722235.008	4294320.76	5689	05-Nov-13	11052013-001.SSF	222895.158	15878
722235.019	4294320.741	5757	05-Nov-13	11052013-001.SSF	222895.93	15879
722235.207	4294320.501	6178	05-Nov-13	11052013-001.SSF	222897.164	15880
722235.275	4294320.373	6063	05-Nov-13	11052013-001.SSF	222897.886	15881
722235.245	4294320.309	5930	05-Nov-13	11052013-001.SSF	222898.959	15882
722235.221	4294320.319	5938	05-Nov-13	11052013-001.SSF	222900.076	15883
722235.239	4294320.323	5883	05-Nov-13	11052013-001.SSF	222901.133	15884
722235.25	4294320.325	5881	05-Nov-13	11052013-001.SSF	222902.078	15885
722235.26	4294320.325	5760	05-Nov-13	11052013-001.SSF	222903.035	15886
722235.262	4294320.326	5348	05-Nov-13	11052013-001.SSF	222903.867	15887
722235.266	4294320.344	5730	05-Nov-13	11052013-001.SSF	222904.978	15888
722235.259	4294320.336	6418	05-Nov-13	11052013-001.SSF	222905.917	15889
722235.259	4294320.364	6220	05-Nov-13	11052013-001.SSF	222907.071	15890
722235.268	4294320.398	6198	05-Nov-13	11052013-001.SSF	222907.911	15891
722235.271	4294320.41	6397	05-Nov-13	11052013-001.SSF	222909.07	15892
722235.265	4294320.414	6103	05-Nov-13	11052013-001.SSF	222909.913	15893
722235.263	4294320.421	6245	05-Nov-13	11052013-001.SSF	222910.98	15894
722235.268	4294320.436	5838	05-Nov-13	11052013-001.SSF	222911.946	15895
722235.279	4294320.455	5901	05-Nov-13	11052013-001.SSF	222913.06	15896
722235.278	4294320.459	5877	05-Nov-13	11052013-001.SSF	222913.802	15897
722235.287	4294320.449	5578	05-Nov-13	11052013-001.SSF	222915.087	15898
722235.399	4294320.4	5680	05-Nov-13	11052013-001.SSF	222915.986	15899
722235.383	4294320.474	5940	05-Nov-13	11052013-001.SSF	222917.13	15900
722235.305	4294320.546	5778	05-Nov-13	11052013-001.SSF	222917.936	15901
722235.25	4294320.581	6085	05-Nov-13	11052013-001.SSF	222918.955	15902
722235.19	4294320.577	5950	05-Nov-13	11052013-001.SSF	222919.847	15903
722235.13	4294320.578	5904	05-Nov-13	11052013-001.SSF	222921.05	15904
722235.119	4294320.532	6381	05-Nov-13	11052013-001.SSF	222921.838	15905
722235.088	4294320.463	5817	05-Nov-13	11052013-001.SSF	222922.948	15906
722235.041	4294320.49	6002	05-Nov-13	11052013-001.SSF	222923.917	15907
722235.041	4294320.484	5813	05-Nov-13	11052013-001.SSF	222924.976	15908
722235.047	4294320.466	5752	05-Nov-13	11052013-001.SSF	222925.873	15909
722235.044	4294320.412	6116	05-Nov-13	11052013-001.SSF	222927.01	15910
722235.137	4294320.281	6065	05-Nov-13	11052013-001.SSF	222927.827	15911
722235.232	4294320.203	5826	05-Nov-13	11052013-001.SSF	222928.93	15912
722235.262	4294320.28	6255	05-Nov-13	11052013-001.SSF	222929.925	15913
722235.268	4294320.31	6091	05-Nov-13	11052013-001.SSF	222931.08	15914
722235.269	4294320.318	5863	05-Nov-13	11052013-001.SSF	222931.894	15915
722235.268	4294320.339	5735	05-Nov-13	11052013-001.SSF	222933.015	15916
722235.264	4294320.343	5589	05-Nov-13	11052013-001.SSF	222933.932	15917
722235.285	4294320.343	5783	05-Nov-13	11052013-001.SSF	222935.007	15918
722235.305	4294320.353	6058	05-Nov-13	11052013-001.SSF	222935.961	15919
722235.096	4294320.5	5778	05-Nov-13	11052013-001.SSF	222936.977	15920
722234.942	4294320.591	6085	05-Nov-13	11052013-001.SSF	222937.976	15921
722235.327	4294320.725	5320	05-Nov-13	11052013-001.SSF	222938.999	15922
722235.482	4294321.078	5557	05-Nov-13	11052013-001.SSF	222939.966	15923

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722235.373	4294321.221	5548	05-Nov-13	11052013-001.SSF	222941.106	15924
722235.54	4294321.146	6031	05-Nov-13	11052013-001.SSF	222941.923	15925
722235.645	4294321.088	6280	05-Nov-13	11052013-001.SSF	222942.975	15926
722235.613	4294321.075	6157	05-Nov-13	11052013-001.SSF	222943.934	15927
722235.578	4294321.073	6208	05-Nov-13	11052013-001.SSF	222945.126	15928
722235.57	4294321.038	6177	05-Nov-13	11052013-001.SSF	222945.875	15929
722235.563	4294320.991	6317	05-Nov-13	11052013-001.SSF	222946.977	15930
722235.56	4294320.974	6111	05-Nov-13	11052013-001.SSF	222947.9	15931
722235.593	4294320.926	5560	05-Nov-13	11052013-001.SSF	222949.075	15932
722235.583	4294320.888	5670	05-Nov-13	11052013-001.SSF	222949.876	15933
722235.572	4294320.865	5619	05-Nov-13	11052013-001.SSF	222951.013	15934
722235.589	4294320.894	5493	05-Nov-13	11052013-001.SSF	222951.964	15935
722235.585	4294320.902	5722	05-Nov-13	11052013-001.SSF	222952.969	15936
722235.573	4294320.908	6324	05-Nov-13	11052013-001.SSF	222954.028	15937
722235.536	4294320.851	6459	05-Nov-13	11052013-001.SSF	222954.968	15938
722235.745	4294320.715	5906	05-Nov-13	11052013-001.SSF	222955.924	15939
722236.049	4294320.599	5579	05-Nov-13	11052013-001.SSF	222957.087	15940
722236.03	4294320.585	5793	05-Nov-13	11052013-001.SSF	222957.92	15941
722235.948	4294320.601	5186	05-Nov-13	11052013-001.SSF	222959.058	15942
722235.94	4294320.619	5092	05-Nov-13	11052013-001.SSF	222959.859	15943
722235.932	4294320.648	5182	05-Nov-13	11052013-001.SSF	222961.033	15944
722235.955	4294320.593	5232	05-Nov-13	11052013-001.SSF	222961.828	15945
722236.023	4294320.397	5328	05-Nov-13	11052013-001.SSF	222963.003	15946
722236.264	4294320.346	5644	05-Nov-13	11052013-001.SSF	222963.908	15947
722236.517	4294320.338	6902	05-Nov-13	11052013-001.SSF	222964.97	15948
722236.632	4294320.31	6312	05-Nov-13	11052013-001.SSF	222965.865	15949
722236.722	4294320.388	5891	05-Nov-13	11052013-001.SSF	222967.001	15950
722183.343	4294333.388	9267	05-Nov-13	11052013-001.SSF	223847.501	15952
722183.372	4294333.418	9037	05-Nov-13	11052013-001.SSF	223848.569	15953
722183.366	4294333.448	8968	05-Nov-13	11052013-001.SSF	223849.549	15954
722183.355	4294333.472	8366	05-Nov-13	11052013-001.SSF	223850.701	15955
722183.335	4294333.48	8853	05-Nov-13	11052013-001.SSF	223851.62	15956
722183.3	4294333.481	9247	05-Nov-13	11052013-001.SSF	223852.64	15957
722183.291	4294333.502	9341	05-Nov-13	11052013-001.SSF	223853.608	15958
722183.307	4294333.526	9184	05-Nov-13	11052013-001.SSF	223854.653	15959
722183.322	4294333.534	9689	05-Nov-13	11052013-001.SSF	223855.59	15960
722183.349	4294333.524	9410	05-Nov-13	11052013-001.SSF	223856.699	15961
722183.372	4294333.512	9215	05-Nov-13	11052013-001.SSF	223857.634	15962
722183.376	4294333.504	8986	05-Nov-13	11052013-001.SSF	223858.661	15963
722183.369	4294333.49	9089	05-Nov-13	11052013-001.SSF	223859.589	15964
722183.332	4294333.47	8945	05-Nov-13	11052013-001.SSF	223860.656	15965
722183.294	4294333.464	9119	05-Nov-13	11052013-001.SSF	223861.4871	15966
722183.273	4294333.455	9944	05-Nov-13	11052013-001.SSF	223862.6281	15967
722183.296	4294333.451	9861	05-Nov-13	11052013-001.SSF	223863.566	15968
722183.353	4294333.447	9889	05-Nov-13	11052013-001.SSF	223864.561	15969
722183.393	4294333.449	9545	05-Nov-13	11052013-001.SSF	223865.552	15970
722183.405	4294333.46	9014	05-Nov-13	11052013-001.SSF	223866.683	15971

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722183.414	4294333.465	8678	05-Nov-13	11052013-001.SSF	223867.603	15972
722183.437	4294333.457	9119	05-Nov-13	11052013-001.SSF	223868.655	15973
722183.461	4294333.439	8422	05-Nov-13	11052013-001.SSF	223869.55	15974
722183.478	4294333.419	8937	05-Nov-13	11052013-001.SSF	223870.67	15975
722183.485	4294333.412	8694	05-Nov-13	11052013-001.SSF	223871.5551	15976
722183.505	4294333.405	9008	05-Nov-13	11052013-001.SSF	223872.67	15977
722183.518	4294333.413	9102	05-Nov-13	11052013-001.SSF	223873.576	15978
722183.516	4294333.43	8832	05-Nov-13	11052013-001.SSF	223874.681	15979
722183.508	4294333.431	8958	05-Nov-13	11052013-001.SSF	223875.567	15980
722183.542	4294333.446	9119	05-Nov-13	11052013-001.SSF	223876.639	15981
722183.567	4294333.446	9194	05-Nov-13	11052013-001.SSF	223877.54	15982
722183.539	4294333.429	9274	05-Nov-13	11052013-001.SSF	223878.6541	15983
722183.519	4294333.429	8936	05-Nov-13	11052013-001.SSF	223879.5909	15984
722183.518	4294333.434	9692	05-Nov-13	11052013-001.SSF	223880.674	15985
722183.524	4294333.432	8782	05-Nov-13	11052013-001.SSF	223881.608	15986
722183.527	4294333.424	8554	05-Nov-13	11052013-001.SSF	223882.642	15987
722183.54	4294333.418	9004	05-Nov-13	11052013-001.SSF	223883.637	15988
722183.523	4294333.411	9685	05-Nov-13	11052013-001.SSF	223884.6379	15989
722183.498	4294333.402	9625	05-Nov-13	11052013-001.SSF	223885.522	15990
722183.49	4294333.405	9261	05-Nov-13	11052013-001.SSF	223886.603	15991
722183.472	4294333.385	9132	05-Nov-13	11052013-001.SSF	223887.604	15992
722183.356	4294333.347	9097	05-Nov-13	11052013-001.SSF	223888.627	15993
722183.059	4294333.331	8822	05-Nov-13	11052013-001.SSF	223889.5389	15994
722182.267	4294333.344	8839	05-Nov-13	11052013-001.SSF	223890.641	15995
722181.365	4294333.269	9172	05-Nov-13	11052013-001.SSF	223891.546	15996
722180.268	4294332.832	9487	05-Nov-13	11052013-001.SSF	223892.634	15997
722179.41	4294332.094	9378	05-Nov-13	11052013-001.SSF	223893.506	15998
722178.302	4294331.156	9010	05-Nov-13	11052013-001.SSF	223894.632	15999
722177.335	4294330.662	8398	05-Nov-13	11052013-001.SSF	223895.562	16000
722176.262	4294330.385	8609	05-Nov-13	11052013-001.SSF	223896.641	16001
722175.365	4294330.244	8307	05-Nov-13	11052013-001.SSF	223897.569	16002
722174.325	4294330.029	8663	05-Nov-13	11052013-001.SSF	223898.592	16003
722173.514	4294329.907	8473	05-Nov-13	11052013-001.SSF	223899.527	16004
722172.964	4294330.188	8786	05-Nov-13	11052013-001.SSF	223900.549	16005
722172.659	4294330.648	9389	05-Nov-13	11052013-001.SSF	223901.538	16006
722172.298	4294331.032	9151	05-Nov-13	11052013-001.SSF	223902.606	16007
722171.98	4294331.404	9332	05-Nov-13	11052013-001.SSF	223903.527	16008
722171.686	4294331.914	9314	05-Nov-13	11052013-001.SSF	223904.615	16009
722171.693	4294332.488	9807	05-Nov-13	11052013-001.SSF	223905.583	16010
722171.888	4294332.998	10473	05-Nov-13	11052013-001.SSF	223906.605	16011
722171.905	4294333.024	10234	05-Nov-13	11052013-001.SSF	223907.6	16012
722171.747	4294332.873	9829	05-Nov-13	11052013-001.SSF	223908.597	16013
722171.562	4294332.703	9638	05-Nov-13	11052013-001.SSF	223909.575	16014
722171.331	4294332.6	9337	05-Nov-13	11052013-001.SSF	223910.665	16015
722171.179	4294332.591	9624	05-Nov-13	11052013-001.SSF	223911.614	16016
722171.178	4294332.5	9741	05-Nov-13	11052013-001.SSF	223912.683	16017
722171.065	4294332.485	10287	05-Nov-13	11052013-001.SSF	223913.549	16018

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722170.799	4294332.343	10233	05-Nov-13	11052013-001.SSF	223914.6331	16019
722170.654	4294332.211	10196	05-Nov-13	11052013-001.SSF	223915.5601	16020
722170.374	4294332.093	9860	05-Nov-13	11052013-001.SSF	223916.62	16021
722169.917	4294331.951	9551	05-Nov-13	11052013-001.SSF	223917.5439	16022
722169.446	4294331.761	9610	05-Nov-13	11052013-001.SSF	223918.618	16023
722169.165	4294331.668	10235	05-Nov-13	11052013-001.SSF	223919.58	16024
722168.975	4294331.755	9275	05-Nov-13	11052013-001.SSF	223920.639	16025
722168.972	4294331.767	9387	05-Nov-13	11052013-001.SSF	223921.533	16026
722168.983	4294331.63	9960	05-Nov-13	11052013-001.SSF	223922.6379	16027
722168.962	4294331.494	9660	05-Nov-13	11052013-001.SSF	223923.551	16028
722168.929	4294331.38	9813	05-Nov-13	11052013-001.SSF	223924.558	16029
722168.939	4294331.319	9787	05-Nov-13	11052013-001.SSF	223925.526	16030
722169.056	4294331.28	9645	05-Nov-13	11052013-001.SSF	223926.5229	16031
722169.157	4294331.219	9535	05-Nov-13	11052013-001.SSF	223927.501	16032
722169.103	4294331.026	9946	05-Nov-13	11052013-001.SSF	223928.559	16033
722168.947	4294331.052	9652	05-Nov-13	11052013-001.SSF	223929.475	16034
722168.823	4294331.516	9382	05-Nov-13	11052013-001.SSF	223930.665	16035
722168.796	4294331.686	9477	05-Nov-13	11052013-001.SSF	223931.498	16036
722168.795	4294331.589	9238	05-Nov-13	11052013-001.SSF	223932.653	16037
722168.809	4294331.378	9029	05-Nov-13	11052013-001.SSF	223933.582	16038
722168.768	4294331.186	9503	05-Nov-13	11052013-001.SSF	223934.674	16039
722168.719	4294331.01	9651	05-Nov-13	11052013-001.SSF	223935.48	16040
722168.525	4294330.749	10048	05-Nov-13	11052013-001.SSF	223936.5551	16041
722168.383	4294330.545	9567	05-Nov-13	11052013-001.SSF	223937.46	16042
722168.38	4294330.465	9019	05-Nov-13	11052013-001.SSF	223938.542	16043
722168.423	4294330.51	9123	05-Nov-13	11052013-001.SSF	223939.547	16044
722168.496	4294330.544	9789	05-Nov-13	11052013-001.SSF	223940.6379	16045
722168.535	4294330.584	10291	05-Nov-13	11052013-001.SSF	223941.566	16046
722168.546	4294330.629	10296	05-Nov-13	11052013-001.SSF	223942.668	16047
722168.555	4294330.677	10216	05-Nov-13	11052013-001.SSF	223943.509	16048
722168.584	4294330.751	9369	05-Nov-13	11052013-001.SSF	223944.65	16049
722168.434	4294330.882	8855	05-Nov-13	11052013-001.SSF	223945.528	16050
722168.393	4294331.176	9226	05-Nov-13	11052013-001.SSF	223946.655	16051
722168.922	4294331.54	9787	05-Nov-13	11052013-001.SSF	223947.5699	16052
722169.997	4294331.724	10657	05-Nov-13	11052013-001.SSF	223948.6169	16053
722170.94	4294331.365	10090	05-Nov-13	11052013-001.SSF	223949.5229	16054
722171.852	4294330.613	8930	05-Nov-13	11052013-001.SSF	223950.624	16055
722172.733	4294330.388	8841	05-Nov-13	11052013-001.SSF	223951.525	16056
722174.107	4294330.901	9075	05-Nov-13	11052013-001.SSF	223952.614	16057
722175.202	4294331.552	8345	05-Nov-13	11052013-001.SSF	223953.514	16058
722176.395	4294332.09	7754	05-Nov-13	11052013-001.SSF	223954.5551	16059
722177.651	4294332.532	8201	05-Nov-13	11052013-001.SSF	223955.504	16060
722179.132	4294333.13	8325	05-Nov-13	11052013-001.SSF	223956.541	16061
722180.353	4294333.822	8801	05-Nov-13	11052013-001.SSF	223957.509	16062
722181.445	4294334.762	9008	05-Nov-13	11052013-001.SSF	223958.5291	16063
722182.379	4294335.772	9657	05-Nov-13	11052013-001.SSF	223959.469	16064
722183.494	4294337.106	9414	05-Nov-13	11052013-001.SSF	223960.567	16065

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722184.418	4294338.266	9615	05-Nov-13	11052013-001.SSF	223961.486	16066
722185.498	4294339.557	9728	05-Nov-13	11052013-001.SSF	223962.646	16067
722186.358	4294340.342	9485	05-Nov-13	11052013-001.SSF	223963.507	16068
722187.714	4294341.124	9707	05-Nov-13	11052013-001.SSF	223964.6331	16069
722189.087	4294341.505	9908	05-Nov-13	11052013-001.SSF	223965.546	16070
722190.764	4294341.905	9555	05-Nov-13	11052013-001.SSF	223966.568	16071
722192.122	4294342.33	9687	05-Nov-13	11052013-001.SSF	223967.483	16072
722193.387	4294343.063	9289	05-Nov-13	11052013-001.SSF	223968.601	16073
722194.128	4294344	9410	05-Nov-13	11052013-001.SSF	223969.536	16074
722194.877	4294345.141	8450	05-Nov-13	11052013-001.SSF	223970.556	16075
722195.796	4294346.012	7108	05-Nov-13	11052013-001.SSF	223971.475	16076
722197.237	4294346.801	7051	05-Nov-13	11052013-001.SSF	223972.621	16077
722198.502	4294347.242	6576	05-Nov-13	11052013-001.SSF	223973.5551	16078
722200.007	4294347.59	6579	05-Nov-13	11052013-001.SSF	223974.585	16079
722201.52	4294347.926	6265	05-Nov-13	11052013-001.SSF	223975.5551	16080
722203.204	4294348.435	6217	05-Nov-13	11052013-001.SSF	223976.658	16081
722204.454	4294348.901	6519	05-Nov-13	11052013-001.SSF	223977.545	16082
722205.897	4294349.459	6060	05-Nov-13	11052013-001.SSF	223978.594	16083
722207.194	4294349.922	6048	05-Nov-13	11052013-001.SSF	223979.542	16084
722208.654	4294350.443	6507	05-Nov-13	11052013-001.SSF	223980.615	16085
722209.921	4294351.002	6322	05-Nov-13	11052013-001.SSF	223981.5179	16086
722211.553	4294351.791	5964	05-Nov-13	11052013-001.SSF	223982.636	16087
722212.802	4294352.288	6159	05-Nov-13	11052013-001.SSF	223983.48	16088
722214.328	4294352.771	5917	05-Nov-13	11052013-001.SSF	223984.558	16089
722215.535	4294353.096	6103	05-Nov-13	11052013-001.SSF	223985.473	16090
722216.91	4294353.318	6470	05-Nov-13	11052013-001.SSF	223986.528	16091
722218.151	4294353.338	6677	05-Nov-13	11052013-001.SSF	223987.462	16092
722219.668	4294353.212	6306	05-Nov-13	11052013-001.SSF	223988.574	16093
722220.941	4294353.044	6697	05-Nov-13	11052013-001.SSF	223989.474	16094
722222.539	4294352.793	6954	05-Nov-13	11052013-001.SSF	223990.571	16095
722223.988	4294352.534	6972	05-Nov-13	11052013-001.SSF	223991.521	16096
722225.708	4294352.201	6644	05-Nov-13	11052013-001.SSF	223992.6331	16097
722227.063	4294351.9	7082	05-Nov-13	11052013-001.SSF	223993.554	16098
722228.509	4294351.458	6661	05-Nov-13	11052013-001.SSF	223994.559	16099
722229.756	4294350.928	6537	05-Nov-13	11052013-001.SSF	223995.434	16100
722231.31	4294350.109	6047	05-Nov-13	11052013-001.SSF	223996.587	16101
722232.369	4294349.387	6589	05-Nov-13	11052013-001.SSF	223997.4709	16102
722233.353	4294348.258	6908	05-Nov-13	11052013-001.SSF	223998.532	16103
722233.837	4294347.032	7396	05-Nov-13	11052013-001.SSF	223999.4611	16104
722233.988	4294345.376	7092	05-Nov-13	11052013-001.SSF	224000.604	16105
722233.882	4294344.014	6922	05-Nov-13	11052013-001.SSF	224001.552	16106
722233.597	4294342.55	6713	05-Nov-13	11052013-001.SSF	224002.62	16107
722233.238	4294341.307	6498	05-Nov-13	11052013-001.SSF	224003.506	16108
722232.815	4294339.785	6603	05-Nov-13	11052013-001.SSF	224004.577	16109
722232.656	4294338.472	6714	05-Nov-13	11052013-001.SSF	224005.535	16110
722232.76	4294337.017	6371	05-Nov-13	11052013-001.SSF	224006.614	16111
722232.964	4294335.888	6194	05-Nov-13	11052013-001.SSF	224007.47	16112

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722233.357	4294334.46	6124	05-Nov-13	11052013-001.SSF	224008.614	16113
722233.81	4294333.438	6062	05-Nov-13	11052013-001.SSF	224009.46	16114
722234.265	4294332.259	5922	05-Nov-13	11052013-001.SSF	224010.58	16115
722234.292	4294331.462	6473	05-Nov-13	11052013-001.SSF	224011.431	16116
722234.093	4294330.333	6739	05-Nov-13	11052013-001.SSF	224012.5	16117
722233.807	4294329.046	6295	05-Nov-13	11052013-001.SSF	224013.483	16118
722233.57	4294327.477	6338	05-Nov-13	11052013-001.SSF	224014.524	16119
722233.617	4294326.032	6198	05-Nov-13	11052013-001.SSF	224015.451	16120
722233.975	4294324.451	6696	05-Nov-13	11052013-001.SSF	224016.498	16121
722234.363	4294323.096	6144	05-Nov-13	11052013-001.SSF	224017.464	16122
722234.739	4294321.659	5751	05-Nov-13	11052013-001.SSF	224018.504	16123
722235.068	4294320.193	5297	05-Nov-13	11052013-001.SSF	224019.4969	16124
722235.248	4294318.528	5267	05-Nov-13	11052013-001.SSF	224020.6071	16125
722235.137	4294317.327	5722	05-Nov-13	11052013-001.SSF	224021.509	16126
722234.792	4294316.331	6219	05-Nov-13	11052013-001.SSF	224022.613	16127
722234.485	4294316.012	6078	05-Nov-13	11052013-001.SSF	224023.506	16128
722234.189	4294315.957	6134	05-Nov-13	11052013-001.SSF	224024.549	16129
722234.063	4294316.021	6210	05-Nov-13	11052013-001.SSF	224025.454	16130
722234.084	4294316.15	6215	05-Nov-13	11052013-001.SSF	224026.4919	16131
722234.127	4294316.248	6526	05-Nov-13	11052013-001.SSF	224027.417	16132
722234.134	4294316.292	6393	05-Nov-13	11052013-001.SSF	224028.556	16133
722234.161	4294316.256	6656	05-Nov-13	11052013-001.SSF	224029.3979	16134
722234.184	4294316.24	6894	05-Nov-13	11052013-001.SSF	224030.563	16135
722234.193	4294316.428	6855	05-Nov-13	11052013-001.SSF	224031.52	16136
722233.939	4294316.642	7021	05-Nov-13	11052013-001.SSF	224032.5551	16137
722233.494	4294316.72	6874	05-Nov-13	11052013-001.SSF	224033.5031	16138
722233.294	4294316.823	5981	05-Nov-13	11052013-001.SSF	224034.603	16139
722233.23	4294316.962	6327	05-Nov-13	11052013-001.SSF	224035.494	16140
722233.26	4294317.184	6754	05-Nov-13	11052013-001.SSF	224036.558	16141
722233.34	4294317.259	6484	05-Nov-13	11052013-001.SSF	224037.475	16142
722233.232	4294317.245	6737	05-Nov-13	11052013-001.SSF	224038.5649	16143
722233.172	4294317.233	6587	05-Nov-13	11052013-001.SSF	224039.451	16144
722233.251	4294317.137	6772	05-Nov-13	11052013-001.SSF	224040.495	16145
722233.336	4294317.026	6697	05-Nov-13	11052013-001.SSF	224041.4969	16146
722233.341	4294316.923	6362	05-Nov-13	11052013-001.SSF	224042.481	16147
722233.31	4294316.825	6173	05-Nov-13	11052013-001.SSF	224043.437	16148
722233.292	4294316.759	6112	05-Nov-13	11052013-001.SSF	224044.526	16149
722233.279	4294316.717	5853	05-Nov-13	11052013-001.SSF	224045.556	16150
722233.266	4294316.668	5925	05-Nov-13	11052013-001.SSF	224046.576	16151
722233.267	4294316.63	5590	05-Nov-13	11052013-001.SSF	224047.484	16152
722233.273	4294316.59	5979	05-Nov-13	11052013-001.SSF	224048.566	16153
722233.28	4294316.561	6566	05-Nov-13	11052013-001.SSF	224049.4611	16154
722233.295	4294316.53	6311	05-Nov-13	11052013-001.SSF	224050.547	16155
722233.297	4294316.508	6085	05-Nov-13	11052013-001.SSF	224051.459	16156
722233.282	4294316.487	6505	05-Nov-13	11052013-001.SSF	224052.51	16157
722233.256	4294316.126	6009	05-Nov-13	11052013-001.SSF	224062.5439	16158
722233.266	4294316.147	6727	05-Nov-13	11052013-001.SSF	224063.517	16159

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722233.246	4294316.157	6520	05-Nov-13	11052013-001.SSF	224064.6121	16160
722237.357	4294313.044	4833	05-Nov-13	11052013-001.SSF	237011.8027	16161
722237.373	4294313.021	4886	05-Nov-13	11052013-001.SSF	237012.7217	16162
722237.49	4294312.939	4788	05-Nov-13	11052013-001.SSF	237013.8662	16163
722237.552	4294312.823	5056	05-Nov-13	11052013-001.SSF	237014.8281	16164
722237.429	4294312.926	4906	05-Nov-13	11052013-001.SSF	237015.8896	16165
722237.266	4294313.207	5205	05-Nov-13	11052013-001.SSF	237016.75	16166
722237.023	4294313.597	5537	05-Nov-13	11052013-001.SSF	237017.9053	16167
722237.004	4294313.827	5290	05-Nov-13	11052013-001.SSF	237018.7744	16168
722236.934	4294313.987	4798	05-Nov-13	11052013-001.SSF	237019.8818	16169
722236.948	4294314.082	5069	05-Nov-13	11052013-001.SSF	237020.8389	16170
722237.08	4294314.135	5101	05-Nov-13	11052013-001.SSF	237021.9043	16171
722237.535	4294313.797	4216	05-Nov-13	11052013-002.SSF	237316.842	16172
722237.538	4294313.798	4156	05-Nov-13	11052013-002.SSF	237316.849	16173
722237.581	4294313.724	4723	05-Nov-13	11052013-002.SSF	237317.75	16174
722237.513	4294313.671	5319	05-Nov-13	11052013-002.SSF	237318.666	16175
722237.416	4294313.629	5294	05-Nov-13	11052013-002.SSF	237319.808	16176
722237.355	4294313.612	5340	05-Nov-13	11052013-002.SSF	237320.63	16177
722237.281	4294313.604	4961	05-Nov-13	11052013-002.SSF	237321.744	16178
722237.227	4294313.606	4935	05-Nov-13	11052013-002.SSF	237322.698	16179
722237.154	4294313.591	5004	05-Nov-13	11052013-002.SSF	237323.752	16180
722237.092	4294313.558	4982	05-Nov-13	11052013-002.SSF	237324.688	16181
722236.944	4294313.658	4632	05-Nov-13	11052013-002.SSF	237325.874	16182
722236.868	4294313.714	5013	05-Nov-13	11052013-002.SSF	237326.743	16183
722236.747	4294313.8	4972	05-Nov-13	11052013-002.SSF	237327.857	16184
722236.641	4294313.882	4454	05-Nov-13	11052013-002.SSF	237328.742	16185
722236.531	4294313.997	4433	05-Nov-13	11052013-002.SSF	237329.843	16186
722236.461	4294314.074	4533	05-Nov-13	11052013-002.SSF	237330.735	16187
722236.383	4294314.15	4380	05-Nov-13	11052013-002.SSF	237331.864	16188
722236.328	4294314.21	4758	05-Nov-13	11052013-002.SSF	237332.744	16189
722236.269	4294314.261	4687	05-Nov-13	11052013-002.SSF	237333.838	16190
722236.243	4294314.303	4676	05-Nov-13	11052013-002.SSF	237334.729	16191
722236.225	4294314.358	4288	05-Nov-13	11052013-002.SSF	237335.715	16192
722236.244	4294314.404	4206	05-Nov-13	11052013-002.SSF	237336.647	16193
722236.244	4294314.468	4444	05-Nov-13	11052013-002.SSF	237337.809	16194
722233.041	4294317.244	4971	07-Nov-13	11072013-001.SSF	394139.472	16195
722233.08	4294317.166	4694	07-Nov-13	11072013-001.SSF	394140.358	16196
722233.151	4294317.036	4747	07-Nov-13	11072013-001.SSF	394141.436	16197
722233.214	4294316.936	4935	07-Nov-13	11072013-001.SSF	394142.333	16198
722233.238	4294316.884	5093	07-Nov-13	11072013-001.SSF	394143.434	16199
722233.226	4294316.875	5527	07-Nov-13	11072013-001.SSF	394144.349	16200
722233.261	4294316.831	5486	07-Nov-13	11072013-001.SSF	394145.474	16201
722233.262	4294316.816	5073	07-Nov-13	11072013-001.SSF	394146.302	16202
722233.297	4294316.783	4751	07-Nov-13	11072013-001.SSF	394147.455	16203
722233.333	4294316.751	4765	07-Nov-13	11072013-001.SSF	394148.346	16204
722233.395	4294316.684	5155	07-Nov-13	11072013-001.SSF	394149.466	16205
722233.473	4294316.616	4992	07-Nov-13	11072013-001.SSF	394150.312	16206

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722233.537	4294316.545	5560	07-Nov-13	11072013-001.SSF	394151.408	16207
722233.595	4294316.487	5317	07-Nov-13	11072013-001.SSF	394152.325	16208
722233.684	4294316.396	5091	07-Nov-13	11072013-001.SSF	394153.406	16209
722233.743	4294316.294	5159	07-Nov-13	11072013-001.SSF	394154.338	16210
722233.815	4294316.21	5332	07-Nov-13	11072013-001.SSF	394155.473	16211
722233.866	4294316.172	4776	07-Nov-13	11072013-001.SSF	394156.376	16212
722233.915	4294316.138	4659	07-Nov-13	11072013-001.SSF	394157.448	16213
722233.957	4294316.101	4796	07-Nov-13	11072013-001.SSF	394158.407	16214
722234.011	4294316.063	4940	07-Nov-13	11072013-001.SSF	394159.394	16215
722234.059	4294316.036	4803	07-Nov-13	11072013-001.SSF	394160.333	16216
722234.069	4294316.036	4892	07-Nov-13	11072013-001.SSF	394161.378	16217
722234.076	4294316.031	5099	07-Nov-13	11072013-001.SSF	394162.228	16218
722234.099	4294316.008	4931	07-Nov-13	11072013-001.SSF	394163.377	16219
722234.13	4294316.01	5376	07-Nov-13	11072013-001.SSF	394164.348	16220
722234.244	4294316.088	5446	07-Nov-13	11072013-001.SSF	394165.477	16221
722234.346	4294316.12	5576	07-Nov-13	11072013-001.SSF	394166.314	16222
722234.419	4294316.039	5056	07-Nov-13	11072013-001.SSF	394167.387	16223
722234.514	4294316.021	5184	07-Nov-13	11072013-001.SSF	394168.326	16224
722234.632	4294316.048	5128	07-Nov-13	11072013-001.SSF	394169.412	16225
722234.704	4294316.08	5254	07-Nov-13	11072013-001.SSF	394170.369	16226
722234.742	4294316.09	5070	07-Nov-13	11072013-001.SSF	394171.389	16227
722098.14	4294300.446	8128	07-Nov-13	11072013-001.SSF	394704.481	16228
722097.985	4294300.483	8067	07-Nov-13	11072013-001.SSF	394705.283	16229
722097.829	4294300.505	7575	07-Nov-13	11072013-001.SSF	394706.085	16230
722097.686	4294300.58	7591	07-Nov-13	11072013-001.SSF	394707.133	16231
722097.567	4294300.659	8222	07-Nov-13	11072013-001.SSF	394708.137	16232
722097.534	4294300.69	7655	07-Nov-13	11072013-001.SSF	394709.16	16233
722097.532	4294300.699	8108	07-Nov-13	11072013-001.SSF	394710.177	16234
722097.52	4294300.715	7913	07-Nov-13	11072013-001.SSF	394711.22	16235
722097.56	4294300.71	7856	07-Nov-13	11072013-001.SSF	394712.139	16236
722097.691	4294300.665	7606	07-Nov-13	11072013-001.SSF	394713.158	16237
722097.859	4294300.617	8276	07-Nov-13	11072013-001.SSF	394714.173	16238
722097.994	4294300.577	8180	07-Nov-13	11072013-001.SSF	394715.255	16239
722097.946	4294300.582	8493	07-Nov-13	11072013-001.SSF	394716.116	16240
722097.944	4294300.577	8355	07-Nov-13	11072013-001.SSF	394717.143	16241
722097.935	4294300.558	8067	07-Nov-13	11072013-001.SSF	394718.105	16242
722098.058	4294300.517	7695	07-Nov-13	11072013-001.SSF	394719.216	16243
722098.062	4294300.523	8228	07-Nov-13	11072013-001.SSF	394720.185	16244
722098.009	4294300.539	8056	07-Nov-13	11072013-001.SSF	394721.299	16245
722098.057	4294300.515	7824	07-Nov-13	11072013-001.SSF	394722.2	16246
722098.165	4294300.424	7678	07-Nov-13	11072013-001.SSF	394723.29	16247
722098.137	4294300.378	7589	07-Nov-13	11072013-001.SSF	394724.159	16248
722098.009	4294300.438	7523	07-Nov-13	11072013-001.SSF	394725.285	16249
722097.974	4294300.459	7269	07-Nov-13	11072013-001.SSF	394726.245	16250
722097.797	4294300.567	7711	07-Nov-13	11072013-001.SSF	394727.308	16251
722097.726	4294300.597	8252	07-Nov-13	11072013-001.SSF	394728.2	16252
722097.772	4294300.633	8024	07-Nov-13	11072013-001.SSF	394729.312	16253

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722097.719	4294300.672	7769	07-Nov-13	11072013-001.SSF	394730.225	16254
722097.515	4294300.72	7677	07-Nov-13	11072013-001.SSF	394731.188	16255
722097.524	4294300.665	8188	07-Nov-13	11072013-001.SSF	394732.163	16256
722097.391	4294300.614	8378	07-Nov-13	11072013-001.SSF	394733.216	16257
722097.463	4294300.429	8200	07-Nov-13	11072013-001.SSF	394734.15	16258
722097.614	4294300.36	8520	07-Nov-13	11072013-001.SSF	394735.174	16259
722097.61	4294300.35	8775	07-Nov-13	11072013-001.SSF	394736.112	16260
722097.614	4294300.169	8438	07-Nov-13	11072013-001.SSF	394737.243	16261
722097.569	4294299.897	8624	07-Nov-13	11072013-001.SSF	394738.185	16262
722097.486	4294299.613	8218	07-Nov-13	11072013-001.SSF	394739.17	16263
722097.438	4294299.315	8695	07-Nov-13	11072013-001.SSF	394740.192	16264
722097.373	4294298.994	8596	07-Nov-13	11072013-001.SSF	394741.176	16265
722097.233	4294298.743	8270	07-Nov-13	11072013-001.SSF	394742.106	16266
722097.068	4294298.66	7929	07-Nov-13	11072013-001.SSF	394743.188	16267
722097.349	4294298.613	8203	07-Nov-13	11072013-001.SSF	394744.178	16268
722097.576	4294298.436	8611	07-Nov-13	11072013-001.SSF	394745.306	16269
722097.732	4294298.266	8834	07-Nov-13	11072013-001.SSF	394746.198	16270
722097.883	4294298.062	8111	07-Nov-13	11072013-001.SSF	394747.19	16271
722097.97	4294297.895	7435	07-Nov-13	11072013-001.SSF	394748.209	16272
722098.125	4294297.759	8029	07-Nov-13	11072013-001.SSF	394749.25	16273
722098.262	4294297.703	8109	07-Nov-13	11072013-001.SSF	394750.064	16274
722098.746	4294297.772	7936	07-Nov-13	11072013-001.SSF	394751.202	16275
722099.303	4294297.815	8056	07-Nov-13	11072013-001.SSF	394752.135	16276
722099.495	4294297.963	7989	07-Nov-13	11072013-001.SSF	394753.187	16277
722099.135	4294298.401	7434	07-Nov-13	11072013-001.SSF	394754.135	16278
722097.332	4294300.046	7466	07-Nov-13	11072013-001.SSF	394755.17	16279
722096.987	4294300.216	7402	07-Nov-13	11072013-001.SSF	394756.201	16280
722096.564	4294300.572	7193	07-Nov-13	11072013-001.SSF	394757.14	16281
722096.224	4294300.781	7504	07-Nov-13	11072013-001.SSF	394758.055	16282
722096.024	4294300.951	7596	07-Nov-13	11072013-001.SSF	394759.253	16283
722095.61	4294301.06	8405	07-Nov-13	11072013-001.SSF	394760.263	16284
722095.431	4294301.017	8035	07-Nov-13	11072013-001.SSF	394761.313	16285
722095.603	4294300.755	8225	07-Nov-13	11072013-001.SSF	394762.185	16286
722095.715	4294300.702	8346	07-Nov-13	11072013-001.SSF	394763.289	16287
722095.779	4294300.863	8130	07-Nov-13	11072013-001.SSF	394764.198	16288
722095.944	4294301.058	8165	07-Nov-13	11072013-001.SSF	394765.298	16289
722096.102	4294300.832	7906	07-Nov-13	11072013-001.SSF	394767.197	16291
722096.147	4294300.867	8429	07-Nov-13	11072013-001.SSF	394768.167	16292
722096.339	4294301.043	8266	07-Nov-13	11072013-001.SSF	394769.223	16293
722096.504	4294301.122	8055	07-Nov-13	11072013-001.SSF	394770.253	16294
722096.694	4294301.104	7643	07-Nov-13	11072013-001.SSF	394771.308	16295
722096.747	4294301.06	7614	07-Nov-13	11072013-001.SSF	394772.153	16296
722096.646	4294301.019	7635	07-Nov-13	11072013-001.SSF	394773.288	16297
722096.633	4294301.053	7827	07-Nov-13	11072013-001.SSF	394774.192	16298
722096.721	4294301.199	8318	07-Nov-13	11072013-001.SSF	394775.261	16299
722096.911	4294301.322	8451	07-Nov-13	11072013-001.SSF	394776.096	16300
722097.04	4294301.369	7941	07-Nov-13	11072013-001.SSF	394777.245	16301

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722097.271	4294300.982	7671	07-Nov-13	11072013-001.SSF	394779.341	16303
722097.347	4294300.963	7960	07-Nov-13	11072013-001.SSF	394780.13	16304
722097.171	4294301.13	8580	07-Nov-13	11072013-001.SSF	394781.26	16305
722097.23	4294301.257	7931	07-Nov-13	11072013-001.SSF	394782.266	16306
722097.241	4294301.364	7961	07-Nov-13	11072013-001.SSF	394783.292	16307
722097.531	4294301.55	7967	07-Nov-13	11072013-001.SSF	394784.227	16308
722098.403	4294301.817	7927	07-Nov-13	11072013-001.SSF	394785.248	16309
722099.126	4294301.866	7778	07-Nov-13	11072013-001.SSF	394786.1	16310
722100.036	4294302.09	7719	07-Nov-13	11072013-001.SSF	394787.232	16311
722100.654	4294302.295	7668	07-Nov-13	11072013-001.SSF	394788.062	16312
722101.289	4294301.943	7677	07-Nov-13	11072013-001.SSF	394789.195	16313
722101.705	4294301.623	7880	07-Nov-13	11072013-001.SSF	394790.182	16314
722101.391	4294301.67	7874	07-Nov-13	11072013-001.SSF	394791.252	16315
722100.84	4294301.495	7875	07-Nov-13	11072013-001.SSF	394792.279	16316
722100.407	4294300.891	7853	07-Nov-13	11072013-001.SSF	394793.314	16317
722099.919	4294300.405	7773	07-Nov-13	11072013-001.SSF	394794.318	16318
722099.317	4294300.232	7797	07-Nov-13	11072013-001.SSF	394795.181	16319
722098.647	4294299.893	7865	07-Nov-13	11072013-001.SSF	394796.174	16320
722097.708	4294299.612	7992	07-Nov-13	11072013-001.SSF	394797.243	16321
722096.949	4294299.466	7985	07-Nov-13	11072013-001.SSF	394798.079	16322
722095.963	4294299.037	7943	07-Nov-13	11072013-001.SSF	394799.228	16323
722095.253	4294298.937	7965	07-Nov-13	11072013-001.SSF	394800.059	16324
722094.427	4294299.036	8033	07-Nov-13	11072013-001.SSF	394801.264	16325
722094.064	4294298.79	7963	07-Nov-13	11072013-001.SSF	394802.168	16326
722093.526	4294298.489	8043	07-Nov-13	11072013-001.SSF	394803.155	16327
722093.073	4294297.851	8173	07-Nov-13	11072013-001.SSF	394804.227	16328
722092.928	4294297.193	8235	07-Nov-13	11072013-001.SSF	394805.309	16329
722093.202	4294296.983	8337	07-Nov-13	11072013-001.SSF	394806.049	16330
722093.576	4294297.453	8336	07-Nov-13	11072013-001.SSF	394807.222	16331
722094.049	4294297.709	8383	07-Nov-13	11072013-001.SSF	394808.073	16332
722094.818	4294298.097	8398	07-Nov-13	11072013-001.SSF	394809.247	16333
722095.175	4294298.357	8448	07-Nov-13	11072013-001.SSF	394810.07	16334
722095.773	4294298.522	8595	07-Nov-13	11072013-001.SSF	394811.248	16335
722096.27	4294298.784	8641	07-Nov-13	11072013-001.SSF	394812.206	16336
722096.988	4294298.986	8622	07-Nov-13	11072013-001.SSF	394813.218	16337
722097.664	4294299.242	8627	07-Nov-13	11072013-001.SSF	394814.053	16338
722098.529	4294299.588	8626	07-Nov-13	11072013-001.SSF	394815.26	16339
722099.245	4294299.734	8619	07-Nov-13	11072013-001.SSF	394816.258	16340
722099.819	4294300.048	8627	07-Nov-13	11072013-001.SSF	394817.273	16341
722100.269	4294300.202	8681	07-Nov-13	11072013-001.SSF	394818.101	16342
722100.881	4294300.35	8652	07-Nov-13	11072013-001.SSF	394819.25	16343
722101.421	4294300.274	8630	07-Nov-13	11072013-001.SSF	394820.079	16344
722102.342	4294300.276	8641	07-Nov-13	11072013-001.SSF	394821.25	16345
722102.914	4294300.394	8797	07-Nov-13	11072013-001.SSF	394822.141	16346
722103.088	4294300.458	8733	07-Nov-13	11072013-001.SSF	394823.174	16347
722103.042	4294300.537	8675	07-Nov-13	11072013-001.SSF	394824.056	16348

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722103.389	4294300.06	8508	07-Nov-13	11072013-001.SSF	394825.262	16349
722103.89	4294299.812	8411	07-Nov-13	11072013-001.SSF	394826.208	16350
722104.517	4294299.787	8453	07-Nov-13	11072013-001.SSF	394827.238	16351
722105.151	4294299.854	8496	07-Nov-13	11072013-001.SSF	394828.066	16352
722105.433	4294300.104	8511	07-Nov-13	11072013-001.SSF	394829.211	16353
722105.167	4294300.119	8463	07-Nov-13	11072013-001.SSF	394830.185	16354
722104.555	4294299.848	8473	07-Nov-13	11072013-001.SSF	394831.263	16355
722103.936	4294299.652	8516	07-Nov-13	11072013-001.SSF	394832.146	16356
722103.131	4294299.514	8490	07-Nov-13	11072013-001.SSF	394833.284	16357
722102.559	4294299.338	8464	07-Nov-13	11072013-001.SSF	394834.129	16358
722101.744	4294299.136	8469	07-Nov-13	11072013-001.SSF	394835.291	16359
722101.189	4294299.028	8435	07-Nov-13	11072013-001.SSF	394836.16	16360
722100.432	4294299.034	8450	07-Nov-13	11072013-001.SSF	394837.356	16361
722100.011	4294298.968	8440	07-Nov-13	11072013-001.SSF	394838.125	16362
722099.192	4294298.862	8386	07-Nov-13	11072013-001.SSF	394839.275	16363
722098.564	4294298.668	8409	07-Nov-13	11072013-001.SSF	394840.121	16364
722097.786	4294298.299	8362	07-Nov-13	11072013-001.SSF	394841.298	16365
722097.324	4294298.183	8435	07-Nov-13	11072013-001.SSF	394842.086	16366
722096.666	4294298.164	8437	07-Nov-13	11072013-001.SSF	394843.28	16367
722096.209	4294298.341	8416	07-Nov-13	11072013-001.SSF	394844.088	16368
722095.178	4294298.254	8441	07-Nov-13	11072013-001.SSF	394845.291	16369
722094.511	4294298.172	8377	07-Nov-13	11072013-001.SSF	394846.004	16370
722093.734	4294297.776	8521	07-Nov-13	11072013-001.SSF	394847.307	16371
722093.202	4294297.58	8524	07-Nov-13	11072013-001.SSF	394848.005	16372
722092.902	4294297.567	8578	07-Nov-13	11072013-001.SSF	394849.173	16373
722093.17	4294297.357	8483	07-Nov-13	11072013-001.SSF	394850.166	16374
722093.526	4294297.18	8557	07-Nov-13	11072013-001.SSF	394851.203	16375
722093.798	4294297.163	8578	07-Nov-13	11072013-001.SSF	394851.988	16376
722094.723	4294297.376	8508	07-Nov-13	11072013-001.SSF	394853.277	16377
722095.628	4294297.596	8664	07-Nov-13	11072013-001.SSF	394853.984	16378
722097.236	4294298.247	8665	07-Nov-13	11072013-001.SSF	394855.286	16379
722098.007	4294298.476	8566	07-Nov-13	11072013-001.SSF	394856.058	16380
722098.696	4294298.486	8601	07-Nov-13	11072013-001.SSF	394857.181	16381
722099.164	4294298.744	8522	07-Nov-13	11072013-001.SSF	394858.124	16382
722099.923	4294299.011	8508	07-Nov-13	11072013-001.SSF	394859.19	16383
722100.729	4294299.375	8465	07-Nov-13	11072013-001.SSF	394860.117	16384
722101.537	4294299.776	8512	07-Nov-13	11072013-001.SSF	394861.23	16385
722101.946	4294299.858	8553	07-Nov-13	11072013-001.SSF	394862.16	16386
722102.469	4294300.021	8644	07-Nov-13	11072013-001.SSF	394863.245	16387
722103.155	4294300.03	8681	07-Nov-13	11072013-001.SSF	394864.241	16388
722103.838	4294299.82	8651	07-Nov-13	11072013-001.SSF	394865.231	16389
722104.066	4294299.575	8804	07-Nov-13	11072013-001.SSF	394866.248	16390
722103.997	4294299.32	8778	07-Nov-13	11072013-001.SSF	394867.095	16391
722103.776	4294298.963	8719	07-Nov-13	11072013-001.SSF	394868.049	16392
722103.047	4294298.609	8632	07-Nov-13	11072013-001.SSF	394869.292	16393
722102.503	4294298.351	8599	07-Nov-13	11072013-001.SSF	394870.086	16394
722101.81	4294298	8486	07-Nov-13	11072013-001.SSF	394871.317	16395

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722101.453	4294297.68	8361	07-Nov-13	11072013-001.SSF	394872.05	16396
722100.885	4294297.652	8353	07-Nov-13	11072013-001.SSF	394873.15	16397
722100.502	4294297.767	8347	07-Nov-13	11072013-001.SSF	394874.119	16398
722100.201	4294297.727	8329	07-Nov-13	11072013-001.SSF	394875.097	16399
722099.66	4294297.566	8451	07-Nov-13	11072013-001.SSF	394876.067	16400
722098.807	4294297.506	8445	07-Nov-13	11072013-001.SSF	394877.228	16401
722098.12	4294297.404	8266	07-Nov-13	11072013-001.SSF	394878.056	16402
722097.397	4294297.275	8262	07-Nov-13	11072013-001.SSF	394879.205	16403
722097.101	4294297.255	8204	07-Nov-13	11072013-001.SSF	394880.091	16404
722096.72	4294297.134	8166	07-Nov-13	11072013-001.SSF	394881.243	16405
722096.449	4294297.098	8163	07-Nov-13	11072013-001.SSF	394882.059	16406
722096.018	4294296.994	8296	07-Nov-13	11072013-001.SSF	394883.283	16407
722095.621	4294296.739	8416	07-Nov-13	11072013-001.SSF	394884.152	16408
722095.066	4294296.269	8295	07-Nov-13	11072013-001.SSF	394885.271	16409
722095.113	4294296.144	8374	07-Nov-13	11072013-001.SSF	394886.085	16410
722096.174	4294296.566	8449	07-Nov-13	11072013-001.SSF	394887.108	16411
722097.463	4294296.889	8388	07-Nov-13	11072013-001.SSF	394888.268	16412
722097.865	4294296.657	8373	07-Nov-13	11072013-001.SSF	394889.156	16413
722097.903	4294296.298	8423	07-Nov-13	11072013-001.SSF	394890.085	16414
722097.786	4294296.272	8404	07-Nov-13	11072013-001.SSF	394891.239	16415
722097.678	4294296.357	8452	07-Nov-13	11072013-001.SSF	394892.06	16416
722097.762	4294296.503	8436	07-Nov-13	11072013-001.SSF	394893.193	16417
722097.938	4294296.626	8489	07-Nov-13	11072013-001.SSF	394894.091	16418
722098.361	4294296.831	8550	07-Nov-13	11072013-001.SSF	394895.179	16419
722099.158	4294297.165	8481	07-Nov-13	11072013-001.SSF	394896.071	16420
722100.457	4294297.702	8534	07-Nov-13	11072013-001.SSF	394897.228	16421
722101.382	4294298.021	8317	07-Nov-13	11072013-001.SSF	394898.053	16422
722102.565	4294298.403	8300	07-Nov-13	11072013-001.SSF	394899.3	16423
722103.27	4294298.44	8255	07-Nov-13	11072013-001.SSF	394900.072	16424
722104.074	4294298.419	8238	07-Nov-13	11072013-001.SSF	394901.269	16425
722104.447	4294298.554	8253	07-Nov-13	11072013-001.SSF	394902.201	16426
722104.681	4294298.74	8332	07-Nov-13	11072013-001.SSF	394903.271	16427
722104.745	4294298.87	8398	07-Nov-13	11072013-001.SSF	394904.174	16428
722104.657	4294299.027	8440	07-Nov-13	11072013-001.SSF	394905.267	16429
722104.463	4294298.896	8375	07-Nov-13	11072013-001.SSF	394906.014	16430
722104.285	4294297.819	8460	07-Nov-13	11072013-001.SSF	394907.264	16431
722104.106	4294297.246	8438	07-Nov-13	11072013-001.SSF	394908.151	16432
722103.844	4294297.025	8463	07-Nov-13	11072013-001.SSF	394909.215	16433
722103.506	4294296.973	8578	07-Nov-13	11072013-001.SSF	394910.161	16434
722102.76	4294296.826	8700	07-Nov-13	11072013-001.SSF	394911.282	16435
722102.198	4294296.631	8660	07-Nov-13	11072013-001.SSF	394912.146	16436
722101.622	4294296.549	8579	07-Nov-13	11072013-001.SSF	394913.274	16437
722101.184	4294296.712	8719	07-Nov-13	11072013-001.SSF	394914.125	16438
722100.519	4294297.215	8591	07-Nov-13	11072013-001.SSF	394915.254	16439
722099.845	4294297.313	8498	07-Nov-13	11072013-001.SSF	394916.111	16440
722098.684	4294296.859	8553	07-Nov-13	11072013-001.SSF	394917.281	16441
722098.118	4294296.529	8544	07-Nov-13	11072013-001.SSF	394918.096	16442

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722097.333	4294296.707	8455	07-Nov-13	11072013-001.SSF	394920.059	16444
722096.792	4294297.061	8463	07-Nov-13	11072013-001.SSF	394921.376	16445
722096.462	4294296.932	8576	07-Nov-13	11072013-001.SSF	394922.219	16446
722096.297	4294296.905	8696	07-Nov-13	11072013-001.SSF	394923.308	16447
722096.43	4294297.39	8817	07-Nov-13	11072013-001.SSF	394924.097	16448
722096.722	4294298.399	8729	07-Nov-13	11072013-001.SSF	394925.292	16449
722096.839	4294298.941	8726	07-Nov-13	11072013-001.SSF	394926.116	16450
722097.059	4294299.838	8716	07-Nov-13	11072013-001.SSF	394927.278	16451
722097.039	4294300.793	8541	07-Nov-13	11072013-001.SSF	394928.178	16452
722097.034	4294301.601	8276	07-Nov-13	11072013-001.SSF	394929.28	16453
722097.288	4294301.789	8007	07-Nov-13	11072013-001.SSF	394930.164	16454
722096.972	4294301.613	7460	07-Nov-13	11072013-001.SSF	394933.219	16455
722096.872	4294301.642	7266	07-Nov-13	11072013-001.SSF	394934.063	16456
722096.881	4294301.452	7055	07-Nov-13	11072013-001.SSF	394935.325	16457
722096.941	4294301.348	6952	07-Nov-13	11072013-001.SSF	394936.038	16458
722096.911	4294301.354	6930	07-Nov-13	11072013-001.SSF	394937.288	16459
722096.929	4294301.382	6675	07-Nov-13	11072013-001.SSF	394938.028	16460
722096.644	4294301.127	6672	07-Nov-13	11072013-001.SSF	394939.311	16461
722096.612	4294300.752	6725	07-Nov-13	11072013-001.SSF	394940.038	16462
722096.564	4294300.948	6502	07-Nov-13	11072013-001.SSF	394941.119	16463
722096.51	4294301.069	6398	07-Nov-13	11072013-001.SSF	394941.983	16464
722096.178	4294300.836	6359	07-Nov-13	11072013-001.SSF	394943.198	16465
722096.178	4294300.749	6332	07-Nov-13	11072013-001.SSF	394944.061	16466
722096.228	4294300.64	6330	07-Nov-13	11072013-001.SSF	394945.275	16467
722096.282	4294300.607	6293	07-Nov-13	11072013-001.SSF	394946.133	16468
722096.408	4294300.497	6211	07-Nov-13	11072013-001.SSF	394947.218	16469
722096.637	4294300.497	6200	07-Nov-13	11072013-001.SSF	394948.116	16470
722096.818	4294300.454	6146	07-Nov-13	11072013-001.SSF	394949.208	16471
722096.736	4294300.431	6107	07-Nov-13	11072013-001.SSF	394950.13	16472
722096.747	4294300.598	6060	07-Nov-13	11072013-001.SSF	394951.181	16473
722096.882	4294300.824	5982	07-Nov-13	11072013-001.SSF	394952.211	16474
722097.03	4294301.042	6128	07-Nov-13	11072013-001.SSF	394953.135	16475
722097.017	4294301.081	6169	07-Nov-13	11072013-001.SSF	394954.081	16476
722096.816	4294300.941	6048	07-Nov-13	11072013-001.SSF	394955.211	16477
722096.72	4294300.773	6054	07-Nov-13	11072013-001.SSF	394956.044	16478
722096.662	4294300.442	6219	07-Nov-13	11072013-001.SSF	394957.176	16479
722096.605	4294300.19	6114	07-Nov-13	11072013-001.SSF	394958.019	16480
722096.537	4294299.97	6034	07-Nov-13	11072013-001.SSF	394959.047	16481
722096.567	4294300.075	6007	07-Nov-13	11072013-001.SSF	394960.075	16482
722096.561	4294299.973	6041	07-Nov-13	11072013-001.SSF	394961.183	16483
722096.464	4294300.047	5985	07-Nov-13	11072013-001.SSF	394962.06	16484
722096.496	4294299.996	6004	07-Nov-13	11072013-001.SSF	394963.06	16485
722096.505	4294300.555	5943	07-Nov-13	11072013-001.SSF	394963.981	16486
722096.887	4294300.532	5797	07-Nov-13	11072013-001.SSF	394965.18	16487
722096.984	4294300.348	5849	07-Nov-13	11072013-001.SSF	394966.136	16488
722096.977	4294300.319	5700	07-Nov-13	11072013-001.SSF	394967.309	16489

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722096.991	4294300.357	5698	07-Nov-13	11072013-001.SSF	394969.205	16491
722096.839	4294300.427	5703	07-Nov-13	11072013-001.SSF	394970.123	16492
722096.65	4294300.569	5732	07-Nov-13	11072013-001.SSF	394971.194	16493
722096.578	4294300.743	5693	07-Nov-13	11072013-001.SSF	394972.114	16494
722096.596	4294300.904	5661	07-Nov-13	11072013-001.SSF	394973.233	16495
722096.64	4294300.971	5614	07-Nov-13	11072013-001.SSF	394974.063	16496
722096.84	4294300.874	5639	07-Nov-13	11072013-001.SSF	394975.254	16497
722096.885	4294300.819	5894	07-Nov-13	11072013-001.SSF	394976.095	16498
722096.796	4294300.83	5919	07-Nov-13	11072013-001.SSF	394977.114	16499
722096.735	4294300.864	5969	07-Nov-13	11072013-001.SSF	394978.052	16500
722096.665	4294301.023	6056	07-Nov-13	11072013-001.SSF	394979.277	16501
722096.663	4294301.154	5880	07-Nov-13	11072013-001.SSF	394980.12	16502
722096.807	4294301.28	5917	07-Nov-13	11072013-001.SSF	394981.256	16503
722096.832	4294301.37	5937	07-Nov-13	11072013-001.SSF	394982.004	16504
722096.695	4294301.561	5896	07-Nov-13	11072013-001.SSF	394983.254	16505
722096.684	4294301.58	5940	07-Nov-13	11072013-001.SSF	394984.092	16506
722096.739	4294301.583	5891	07-Nov-13	11072013-001.SSF	394985.318	16507
722096.728	4294301.645	5827	07-Nov-13	11072013-001.SSF	394986.173	16508
722096.698	4294301.658	5803	07-Nov-13	11072013-001.SSF	394987.15	16509
722096.671	4294301.58	5918	07-Nov-13	11072013-001.SSF	394988.062	16510
722096.489	4294301.445	5972	07-Nov-13	11072013-001.SSF	394989.309	16511
722096.395	4294301.502	5960	07-Nov-13	11072013-001.SSF	394990.163	16512
722096.259	4294301.466	6022	07-Nov-13	11072013-001.SSF	394991.151	16513
722096.159	4294301.36	5974	07-Nov-13	11072013-001.SSF	394992.005	16514
722096.154	4294301.254	5882	07-Nov-13	11072013-001.SSF	394993.148	16515
722096.162	4294301.244	5812	07-Nov-13	11072013-001.SSF	394994.015	16516
722096.02	4294301.183	5825	07-Nov-13	11072013-001.SSF	394995.073	16517
722095.918	4294301.203	5759	07-Nov-13	11072013-001.SSF	394996.105	16518
722096.105	4294301.231	5771	07-Nov-13	11072013-001.SSF	394997.033	16519
722096.258	4294301.077	5467	07-Nov-13	11072013-001.SSF	394998.075	16520
722096.698	4294300.781	5242	07-Nov-13	11072013-001.SSF	394999.141	16521
722096.707	4294300.697	6159	07-Nov-13	11072013-001.SSF	395000.031	16522
722096.612	4294301.241	7124	07-Nov-13	11072013-001.SSF	395001.178	16523
722097.034	4294300.994	7547	07-Nov-13	11072013-001.SSF	395002.138	16524
722097.696	4294300.788	8115	07-Nov-13	11072013-001.SSF	395003.173	16525
722098.086	4294300.826	8000	07-Nov-13	11072013-001.SSF	395004.126	16526
722098.143	4294300.751	8205	07-Nov-13	11072013-001.SSF	395005.185	16527
722098.091	4294300.712	8237	07-Nov-13	11072013-001.SSF	395006.049	16528
722098.069	4294300.584	8316	07-Nov-13	11072013-001.SSF	395007.126	16529
722098.127	4294300.493	8390	07-Nov-13	11072013-001.SSF	395008.127	16530
722098.113	4294300.578	7839	07-Nov-13	11072013-001.SSF	395009.178	16531
722098.005	4294300.699	7957	07-Nov-13	11072013-001.SSF	395010.168	16532
722097.848	4294300.912	8098	07-Nov-13	11072013-001.SSF	395011.193	16533
722097.794	4294301.18	7735	07-Nov-13	11072013-001.SSF	395012.222	16534
722097.712	4294301.363	7501	07-Nov-13	11072013-001.SSF	395013.112	16535
722097.459	4294301.547	7316	07-Nov-13	11072013-001.SSF	395014.083	16536

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722097.317	4294301.575	6860	07-Nov-13	11072013-001.SSF	395015.103	16537
722097.165	4294301.632	7204	07-Nov-13	11072013-001.SSF	395016.068	16538
722096.586	4294301.774	7375	07-Nov-13	11072013-001.SSF	395017.086	16539
722095.981	4294301.508	7508	07-Nov-13	11072013-001.SSF	395018.039	16540
722095.589	4294301.536	7928	07-Nov-13	11072013-001.SSF	395019.11	16541
722095.357	4294301.638	8389	07-Nov-13	11072013-001.SSF	395020.058	16542
722095.188	4294301.677	8649	07-Nov-13	11072013-001.SSF	395021.191	16543
722095.095	4294301.653	8045	07-Nov-13	11072013-001.SSF	395022.042	16544
722094.994	4294301.626	7960	07-Nov-13	11072013-001.SSF	395023.166	16545
722095.014	4294301.65	7717	07-Nov-13	11072013-001.SSF	395024.045	16546
722095.039	4294301.624	7708	07-Nov-13	11072013-001.SSF	395025.167	16547
722095.212	4294301.544	7696	07-Nov-13	11072013-001.SSF	395026.208	16548
722095.541	4294301.256	7584	07-Nov-13	11072013-001.SSF	395027.197	16549
722095.615	4294301.358	7933	07-Nov-13	11072013-001.SSF	395028.014	16550
722095.989	4294301.122	7777	07-Nov-13	11072013-001.SSF	395029.183	16551
722096.211	4294300.96	7652	07-Nov-13	11072013-001.SSF	395030.071	16552
722096.523	4294300.891	7769	07-Nov-13	11072013-001.SSF	395031.105	16553
722096.986	4294301.631	7257	07-Nov-13	11072013-001.SSF	395032.047	16554
722097.782	4294301.963	7750	07-Nov-13	11072013-001.SSF	395033.103	16555
722098.009	4294301.496	8177	07-Nov-13	11072013-001.SSF	395034.114	16556
722098.215	4294301.494	8102	07-Nov-13	11072013-001.SSF	395035.132	16557
722098.284	4294301.083	7760	07-Nov-13	11072013-001.SSF	395036.087	16558
722098.182	4294300.693	7350	07-Nov-13	11072013-001.SSF	395037.079	16559
722098.069	4294300.683	7494	07-Nov-13	11072013-001.SSF	395038.07	16560
722097.976	4294300.424	7538	07-Nov-13	11072013-001.SSF	395039.244	16561
722097.94	4294300.264	7765	07-Nov-13	11072013-001.SSF	395040.063	16562
722097.894	4294300.133	7518	07-Nov-13	11072013-001.SSF	395041.087	16563
722097.837	4294299.945	8241	07-Nov-13	11072013-001.SSF	395042.012	16564
722097.897	4294299.912	7958	07-Nov-13	11072013-001.SSF	395043.179	16565
722097.953	4294299.921	8234	07-Nov-13	11072013-001.SSF	395044.079	16566
722097.917	4294299.878	7834	07-Nov-13	11072013-001.SSF	395045.254	16567
722097.943	4294299.83	8111	07-Nov-13	11072013-001.SSF	395046.142	16568
722098.042	4294299.972	8867	07-Nov-13	11072013-001.SSF	395047.088	16569
722098.222	4294300.119	8348	07-Nov-13	11072013-001.SSF	395048.051	16570
722098.282	4294300.096	8055	07-Nov-13	11072013-001.SSF	395049.239	16571
722098.272	4294300.121	8274	07-Nov-13	11072013-001.SSF	395050.117	16572
722098.24	4294300.128	8059	07-Nov-13	11072013-001.SSF	395051.232	16573
722098.211	4294300.123	7915	07-Nov-13	11072013-001.SSF	395052.133	16574
722098.178	4294300.103	7850	07-Nov-13	11072013-001.SSF	395053.226	16575
722098.163	4294300.091	7670	07-Nov-13	11072013-001.SSF	395054.181	16576
722098.213	4294300.122	8034	07-Nov-13	11072013-001.SSF	395055.114	16577
722098.191	4294300.123	7572	07-Nov-13	11072013-001.SSF	395056.022	16578
722098.119	4294300.116	8256	07-Nov-13	11072013-001.SSF	395057.26	16579
722098.068	4294300.053	8687	07-Nov-13	11072013-001.SSF	395058.028	16580
722097.948	4294299.612	8591	07-Nov-13	11072013-001.SSF	395059.26	16581
722097.932	4294299.407	8432	07-Nov-13	11072013-001.SSF	395060.015	16582
722097.968	4294299.596	8343	07-Nov-13	11072013-001.SSF	395061.217	16583

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722098.008	4294299.73	8158	07-Nov-13	11072013-001.SSF	395062.033	16584
722098.111	4294300.026	8181	07-Nov-13	11072013-001.SSF	395063.05	16585
722098.146	4294300.214	8592	07-Nov-13	11072013-001.SSF	395064.036	16586
722098.073	4294300.139	8845	07-Nov-13	11072013-001.SSF	395065.118	16587
722098.022	4294300.14	8613	07-Nov-13	11072013-001.SSF	395066.006	16588
722097.937	4294300.089	8152	07-Nov-13	11072013-001.SSF	395067.267	16589
722097.879	4294300.047	7540	07-Nov-13	11072013-001.SSF	395068.011	16590
722097.747	4294300.033	7721	07-Nov-13	11072013-001.SSF	395069.145	16591
722097.813	4294299.9	7605	07-Nov-13	11072013-001.SSF	395070.065	16592
722097.959	4294299.773	7833	07-Nov-13	11072013-001.SSF	395071.163	16593
722098.019	4294299.76	8148	07-Nov-13	11072013-001.SSF	395072.108	16594
722098.014	4294299.745	7756	07-Nov-13	11072013-001.SSF	395073.277	16595
722098.026	4294299.74	8315	07-Nov-13	11072013-001.SSF	395074.024	16596
722098.126	4294299.767	8029	07-Nov-13	11072013-001.SSF	395075.289	16597
722098.169	4294299.788	8161	07-Nov-13	11072013-001.SSF	395076.071	16598
722098.165	4294299.817	8123	07-Nov-13	11072013-001.SSF	395077.117	16599
722098.201	4294299.801	8057	07-Nov-13	11072013-001.SSF	395078.089	16600
722098.244	4294299.711	8283	07-Nov-13	11072013-001.SSF	395080.071	16601
722098.32	4294299.683	8244	07-Nov-13	11072013-001.SSF	395081.242	16602
722098.056	4294299.812	7921	07-Nov-13	11072013-001.SSF	395098.037	16603
722097.943	4294299.741	8078	07-Nov-13	11072013-001.SSF	395099.066	16604
722098.048	4294299.743	8159	07-Nov-13	11072013-001.SSF	395100.068	16605
722098.189	4294299.504	8399	07-Nov-13	11072013-001.SSF	395101.173	16606
722098.201	4294299.295	8707	07-Nov-13	11072013-001.SSF	395101.979	16607
722098.155	4294299.275	8160	07-Nov-13	11072013-001.SSF	395103.254	16608
722098.075	4294299.277	7440	07-Nov-13	11072013-001.SSF	395104.152	16609
722097.98	4294299.342	7927	07-Nov-13	11072013-001.SSF	395105.077	16610
722098.049	4294299.468	8021	07-Nov-13	11072013-001.SSF	395105.945	16611
722098.192	4294299.593	8220	07-Nov-13	11072013-001.SSF	395107.966	16613
722098.211	4294299.639	7916	07-Nov-13	11072013-001.SSF	395108.987	16614
722098.215	4294299.679	8165	07-Nov-13	11072013-001.SSF	395110.133	16615
722098.208	4294299.702	8125	07-Nov-13	11072013-001.SSF	395111.144	16616
722098.191	4294299.668	8013	07-Nov-13	11072013-001.SSF	395112.138	16617
722098.031	4294299.676	8593	07-Nov-13	11072013-001.SSF	395114.104	16618
722098.069	4294299.706	8186	07-Nov-13	11072013-001.SSF	395115.08	16619
722098.145	4294299.667	8452	07-Nov-13	11072013-001.SSF	395116.045	16620
722098.093	4294299.763	7904	07-Nov-13	11072013-001.SSF	395119.158	16621
722098.067	4294299.829	8158	07-Nov-13	11072013-001.SSF	395120.055	16622
722097.917	4294300.01	8603	07-Nov-13	11072013-001.SSF	395127.912	16623
722097.866	4294299.98	8124	07-Nov-13	11072013-001.SSF	395129.014	16624
722097.742	4294299.938	8027	07-Nov-13	11072013-001.SSF	395130.094	16625
722097.716	4294299.971	8062	07-Nov-13	11072013-001.SSF	395131.113	16626
722097.736	4294300.049	8660	07-Nov-13	11072013-001.SSF	395132.073	16627
722097.792	4294300.039	8493	07-Nov-13	11072013-001.SSF	395133.12	16628
722097.824	4294300.011	8565	07-Nov-13	11072013-001.SSF	395134.101	16629
722097.842	4294299.992	8620	07-Nov-13	11072013-001.SSF	395135.086	16630
722097.853	4294299.926	8389	07-Nov-13	11072013-001.SSF	395136.031	16631

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722097.856	4294300.017	8648	07-Nov-13	11072013-001.SSF	395137.085	16632
722097.894	4294300.148	8720	07-Nov-13	11072013-001.SSF	395138.068	16633
722097.932	4294300.18	8737	07-Nov-13	11072013-001.SSF	395139.07	16634
722097.958	4294300.18	8837	07-Nov-13	11072013-001.SSF	395140.062	16635
722097.938	4294300.176	8421	07-Nov-13	11072013-001.SSF	395141.117	16636
722097.777	4294300.18	8164	07-Nov-13	11072013-001.SSF	395142.066	16637
722096.896	4294300.222	7665	07-Nov-13	11072013-001.SSF	395144.008	16639
722092.818	4294305.53	7387	07-Nov-13	11072013-001.SSF	395163.145	16640
722092.771	4294306.273	7500	07-Nov-13	11072013-001.SSF	395164.089	16641
722092.731	4294306.966	7639	07-Nov-13	11072013-001.SSF	395165.0909	16642
722092.908	4294307.52	7994	07-Nov-13	11072013-001.SSF	395165.974	16643
722092.986	4294308.145	7579	07-Nov-13	11072013-001.SSF	395167.036	16644
722093.182	4294308.825	7736	07-Nov-13	11072013-001.SSF	395168.194	16645
722093.162	4294309.256	7981	07-Nov-13	11072013-001.SSF	395169.075	16646
722093.146	4294309.744	7482	07-Nov-13	11072013-001.SSF	395169.954	16647
722092.941	4294309.878	7853	07-Nov-13	11072013-001.SSF	395171.1639	16648
722092.661	4294309.51	7837	07-Nov-13	11072013-001.SSF	395172.106	16649
722092.409	4294308.304	8370	07-Nov-13	11072013-001.SSF	395174.153	16650
722092.365	4294307.749	8623	07-Nov-13	11072013-001.SSF	395175.022	16651
722091.893	4294306.607	8284	07-Nov-13	11072013-001.SSF	395177.0649	16652
722091.647	4294305.308	8081	07-Nov-13	11072013-001.SSF	395179.074	16653
722091.288	4294304.872	8393	07-Nov-13	11072013-001.SSF	395179.946	16654
722090.054	4294304.981	8039	07-Nov-13	11072013-001.SSF	395182.064	16655
722090.343	4294305.474	7507	07-Nov-13	11072013-001.SSF	395183.026	16656
722090.461	4294306.201	7837	07-Nov-13	11072013-001.SSF	395183.9771	16657
722090.64	4294306.977	7806	07-Nov-13	11072013-001.SSF	395185.002	16658
722090.689	4294308.033	8597	07-Nov-13	11072013-001.SSF	395187.026	16659
722090.193	4294309.346	7893	07-Nov-13	11072013-001.SSF	395189.104	16660
722090.25	4294309.728	8437	07-Nov-13	11072013-001.SSF	395189.885	16661
722090.467	4294310.248	7371	07-Nov-13	11072013-001.SSF	395191.132	16662
722090.654	4294310.532	6943	07-Nov-13	11072013-001.SSF	395191.981	16663
722090.65	4294311.149	7475	07-Nov-13	11072013-001.SSF	395193.056	16664
722090.523	4294311.566	7587	07-Nov-13	11072013-001.SSF	395193.952	16665
722090.485	4294311.945	8130	07-Nov-13	11072013-001.SSF	395195.036	16666
722090.207	4294312.356	8421	07-Nov-13	11072013-001.SSF	395195.911	16667
722089.945	4294313.469	8629	07-Nov-13	11072013-001.SSF	395197.174	16668
722089.632	4294314.088	8454	07-Nov-13	11072013-001.SSF	395197.939	16669
722089.163	4294314.698	7792	07-Nov-13	11072013-001.SSF	395199.063	16670
722088.911	4294315.163	7856	07-Nov-13	11072013-001.SSF	395199.9969	16671
722088.477	4294315.785	8686	07-Nov-13	11072013-001.SSF	395201.0959	16672
722088.23	4294316.395	8531	07-Nov-13	11072013-001.SSF	395201.901	16673
722087.731	4294317.14	8923	07-Nov-13	11072013-001.SSF	395202.983	16674
722087.215	4294317.663	8477	07-Nov-13	11072013-001.SSF	395203.912	16675
722086.795	4294318.355	8263	07-Nov-13	11072013-001.SSF	395205.076	16676
722086.494	4294318.845	8743	07-Nov-13	11072013-001.SSF	395205.963	16677
722086.135	4294319.495	8743	07-Nov-13	11072013-001.SSF	395207.035	16678
722085.871	4294320.03	8750	07-Nov-13	11072013-001.SSF	395207.9611	16679

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722085.592	4294320.422	8942	07-Nov-13	11072013-001.SSF	395209.082	16680
722085.539	4294319.783	9008	07-Nov-13	11072013-001.SSF	395211.075	16681
722085.769	4294319.024	9402	07-Nov-13	11072013-001.SSF	395211.983	16682
722086.062	4294318.091	9068	07-Nov-13	11072013-001.SSF	395213.155	16683
722086.291	4294317.669	8648	07-Nov-13	11072013-001.SSF	395213.928	16684
722088.805	4294309.835	8688	07-Nov-13	11072013-001.SSF	395228.1331	16685
722088.846	4294309.458	7947	07-Nov-13	11072013-001.SSF	395229.061	16686
722089.044	4294309.102	8092	07-Nov-13	11072013-001.SSF	395229.931	16687
722089.73	4294308.59	8189	07-Nov-13	11072013-001.SSF	395231.028	16688
722090.147	4294308.033	8221	07-Nov-13	11072013-001.SSF	395231.939	16689
722086.688	4294306.072	7957	07-Nov-13	11072013-001.SSF	395243.074	16690
722086.748	4294306.441	8413	07-Nov-13	11072013-001.SSF	395243.976	16691
722086.639	4294307.797	8056	07-Nov-13	11072013-001.SSF	395245.877	16693
722086.788	4294308.231	8896	07-Nov-13	11072013-001.SSF	395247.027	16694
722086.668	4294308.952	8957	07-Nov-13	11072013-001.SSF	395247.932	16695
722086.619	4294309.661	8135	07-Nov-13	11072013-001.SSF	395249.088	16696
722086.549	4294310.115	8109	07-Nov-13	11072013-001.SSF	395249.927	16697
722086.76	4294310.725	8123	07-Nov-13	11072013-001.SSF	395251.038	16698
722086.965	4294311.38	8109	07-Nov-13	11072013-001.SSF	395251.951	16699
722086.776	4294312.418	8454	07-Nov-13	11072013-001.SSF	395252.984	16700
722086.604	4294313.373	8250	07-Nov-13	11072013-001.SSF	395253.927	16701
722086.456	4294314.356	8075	07-Nov-13	11072013-001.SSF	395255.075	16702
722086.03	4294314.953	8322	07-Nov-13	11072013-001.SSF	395255.9919	16703
722085.614	4294315.631	8289	07-Nov-13	11072013-001.SSF	395257.0649	16704
722085.527	4294316.284	8517	07-Nov-13	11072013-001.SSF	395258.121	16705
722085.404	4294316.732	8773	07-Nov-13	11072013-001.SSF	395259.043	16706
722085.047	4294317.374	8452	07-Nov-13	11072013-001.SSF	395260.009	16707
722085.006	4294317.544	8624	07-Nov-13	11072013-001.SSF	395260.9919	16708
722085.048	4294317.148	8924	07-Nov-13	11072013-001.SSF	395261.9919	16709
722085.15	4294316.277	8664	07-Nov-13	11072013-001.SSF	395263.161	16710
722085.311	4294315.532	8961	07-Nov-13	11072013-001.SSF	395263.999	16711
722085.629	4294314.675	8618	07-Nov-13	11072013-001.SSF	395264.9969	16712
722085.666	4294313.748	8612	07-Nov-13	11072013-001.SSF	395265.947	16713
722085.404	4294312.764	8729	07-Nov-13	11072013-001.SSF	395266.973	16714
722085.258	4294311.914	8765	07-Nov-13	11072013-001.SSF	395267.967	16715
722085.131	4294311.346	8658	07-Nov-13	11072013-001.SSF	395268.979	16716
722085.057	4294310.898	8237	07-Nov-13	11072013-001.SSF	395269.9659	16717
722084.979	4294310.491	7521	07-Nov-13	11072013-001.SSF	395270.9969	16718
722085.56	4294310.411	7905	07-Nov-13	11072013-001.SSF	395271.967	16719
722086.404	4294309.193	8627	07-Nov-13	11072013-001.SSF	395273.923	16720
722086.477	4294308.776	8250	07-Nov-13	11072013-001.SSF	395275.161	16721
722086.487	4294309.094	7993	07-Nov-13	11072013-001.SSF	395275.887	16722
722085.989	4294310.007	7901	07-Nov-13	11072013-001.SSF	395277.104	16723
722085.536	4294310.408	8149	07-Nov-13	11072013-001.SSF	395277.8929	16724
722084.571	4294310.841	7884	07-Nov-13	11072013-001.SSF	395279.0959	16725
722083.881	4294310.646	8394	07-Nov-13	11072013-001.SSF	395279.9139	16726
722082.648	4294310.481	8592	07-Nov-13	11072013-001.SSF	395281.149	16727

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722081.828	4294310.739	8620	07-Nov-13	11072013-001.SSF	395281.975	16728
722081.027	4294310.746	8824	07-Nov-13	11072013-001.SSF	395283.0389	16729
722080.426	4294310.322	9156	07-Nov-13	11072013-001.SSF	395283.922	16730
722079.616	4294310.317	8540	07-Nov-13	11072013-001.SSF	395285.171	16731
722079.222	4294310.41	8178	07-Nov-13	11072013-001.SSF	395285.902	16732
722078.967	4294310.574	8065	07-Nov-13	11072013-001.SSF	395287.051	16733
722079.038	4294310.644	8152	07-Nov-13	11072013-001.SSF	395287.931	16734
722078.92	4294310.441	8080	07-Nov-13	11072013-001.SSF	395289.0649	16735
722078.603	4294310.533	8565	07-Nov-13	11072013-001.SSF	395289.963	16736
722078.067	4294310.884	8845	07-Nov-13	11072013-001.SSF	395291.0601	16737
722077.719	4294310.992	8740	07-Nov-13	11072013-001.SSF	395291.923	16738
722077.536	4294310.929	8479	07-Nov-13	11072013-001.SSF	395292.9659	16739
722077.349	4294310.809	8204	07-Nov-13	11072013-001.SSF	395293.9709	16740
722076.945	4294310.605	8650	07-Nov-13	11072013-001.SSF	395295.073	16741
722076.567	4294310.292	8525	07-Nov-13	11072013-001.SSF	395295.999	16742
722076.358	4294309.714	8643	07-Nov-13	11072013-001.SSF	395297.1071	16743
722075.976	4294309.329	8259	07-Nov-13	11072013-001.SSF	395298.0229	16744
722075.999	4294309.287	8118	07-Nov-13	11072013-001.SSF	395299.08	16745
722076.549	4294309.554	8309	07-Nov-13	11072013-001.SSF	395300.004	16746
722077.206	4294309.918	8461	07-Nov-13	11072013-001.SSF	395301.0129	16747
722077.595	4294310.359	8787	07-Nov-13	11072013-001.SSF	395301.99	16748
722077.949	4294310.982	8580	07-Nov-13	11072013-001.SSF	395303.066	16749
722078.433	4294311.339	8666	07-Nov-13	11072013-001.SSF	395303.92	16750
722078.905	4294312.017	8955	07-Nov-13	11072013-001.SSF	395305.063	16751
722079.54	4294312.725	9653	07-Nov-13	11072013-001.SSF	395307.061	16753
722079.685	4294312.525	9307	07-Nov-13	11072013-001.SSF	395307.88	16754
722079.869	4294311.535	9157	07-Nov-13	11072013-001.SSF	395309.135	16755
722079.779	4294311.017	9688	07-Nov-13	11072013-001.SSF	395309.913	16756
722079.823	4294310.257	9680	07-Nov-13	11072013-001.SSF	395311.094	16757
722079.821	4294309.745	8805	07-Nov-13	11072013-001.SSF	395311.843	16758
722079.621	4294309.205	8627	07-Nov-13	11072013-001.SSF	395312.954	16759
722080.123	4294309.477	8408	07-Nov-13	11072013-001.SSF	395314.9301	16760
722081.168	4294310.715	8736	07-Nov-13	11072013-001.SSF	395316.936	16761
722081.583	4294311.56	8221	07-Nov-13	11072013-001.SSF	395317.877	16762
722082.206	4294312.101	8224	07-Nov-13	11072013-001.SSF	395318.923	16763
722082.623	4294312	7994	07-Nov-13	11072013-001.SSF	395319.876	16764
722083.06	4294311.647	8471	07-Nov-13	11072013-001.SSF	395321.011	16765
722083.366	4294311.49	8725	07-Nov-13	11072013-001.SSF	395321.895	16766
722084.151	4294311.46	9130	07-Nov-13	11072013-001.SSF	395323.04	16767
722084.896	4294311.638	8713	07-Nov-13	11072013-001.SSF	395323.847	16768
722085.899	4294311.872	8546	07-Nov-13	11072013-001.SSF	395325.064	16769
722088.369	4294310.805	8178	07-Nov-13	11072013-001.SSF	395328.006	16770
722088.822	4294310.048	7863	07-Nov-13	11072013-001.SSF	395329.019	16771
722089.463	4294309.324	8150	07-Nov-13	11072013-001.SSF	395329.9351	16772
722090.602	4294308.721	8237	07-Nov-13	11072013-001.SSF	395331.012	16773
722091.307	4294308.315	8241	07-Nov-13	11072013-001.SSF	395331.837	16774
722091.963	4294307.607	8760	07-Nov-13	11072013-001.SSF	395332.932	16775

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722092.605	4294306.852	8265	07-Nov-13	11072013-001.SSF	395333.871	16776
722093.284	4294306.089	9494	07-Nov-13	11072013-001.SSF	395334.943	16777
722093.495	4294305.207	8655	07-Nov-13	11072013-001.SSF	395335.916	16778
722093.419	4294304.474	7681	07-Nov-13	11072013-001.SSF	395336.981	16779
722093.942	4294304.114	6495	07-Nov-13	11072013-001.SSF	395337.915	16780
722095.141	4294303.68	6316	07-Nov-13	11072013-001.SSF	395339.075	16781
722095.787	4294303.085	5983	07-Nov-13	11072013-001.SSF	395339.972	16782
722096.079	4294302.336	5682	07-Nov-13	11072013-001.SSF	395341.012	16783
722096.517	4294301.775	5791	07-Nov-13	11072013-001.SSF	395341.879	16784
722096.617	4294301.476	6220	07-Nov-13	11072013-001.SSF	395343.053	16785
722096.425	4294301.473	6806	07-Nov-13	11072013-001.SSF	395344.01	16786
722096.412	4294301.468	7586	07-Nov-13	11072013-001.SSF	395345.022	16787
722096.448	4294301.429	7837	07-Nov-13	11072013-001.SSF	395345.957	16788
722096.486	4294301.409	8068	07-Nov-13	11072013-001.SSF	395346.995	16789
722096.499	4294301.401	7853	07-Nov-13	11072013-001.SSF	395347.944	16790
722096.565	4294301.412	7957	07-Nov-13	11072013-001.SSF	395348.996	16791
722096.579	4294301.414	8106	07-Nov-13	11072013-001.SSF	395349.949	16792
722096.583	4294301.376	8212	07-Nov-13	11072013-001.SSF	395351.0601	16793
722096.745	4294301.341	7739	07-Nov-13	11072013-001.SSF	395351.869	16794
722097.021	4294301.323	7563	07-Nov-13	11072013-001.SSF	395353.074	16795
722096.951	4294301.293	7287	07-Nov-13	11072013-001.SSF	395355.0649	16796
722096.93	4294301.251	7226	07-Nov-13	11072013-001.SSF	395356.04	16797
722096.808	4294301.125	7717	07-Nov-13	11072013-001.SSF	395357.078	16798
722096.694	4294300.876	7438	07-Nov-13	11072013-001.SSF	395357.901	16799
722096.566	4294300.213	7604	07-Nov-13	11072013-001.SSF	395359.113	16800
722096.49	4294299.377	7884	07-Nov-13	11072013-001.SSF	395360.005	16801
722096.073	4294298.746	7577	07-Nov-13	11072013-001.SSF	395361.0341	16802
722095.461	4294298.438	8155	07-Nov-13	11072013-001.SSF	395361.999	16803
722094.777	4294297.913	8127	07-Nov-13	11072013-001.SSF	395363.035	16804
722094.392	4294297.754	8216	07-Nov-13	11072013-001.SSF	395363.948	16805
722094.423	4294297.437	8071	07-Nov-13	11072013-001.SSF	395365.057	16806
722094.492	4294297.089	8200	07-Nov-13	11072013-001.SSF	395365.844	16807
722093.889	4294296.484	8040	07-Nov-13	11072013-001.SSF	395367.064	16808
722093.613	4294296.006	8415	07-Nov-13	11072013-001.SSF	395367.8149	16809
722093.225	4294295.289	8056	07-Nov-13	11072013-001.SSF	395368.993	16810
722092.473	4294295.349	8412	07-Nov-13	11072013-001.SSF	395369.824	16811
722091.798	4294295.762	8558	07-Nov-13	11072013-001.SSF	395371.0081	16812
722091.85	4294295.562	8167	07-Nov-13	11072013-001.SSF	395371.938	16813
722092.348	4294295.095	8733	07-Nov-13	11072013-001.SSF	395372.96	16814
722092.766	4294294.677	8617	07-Nov-13	11072013-001.SSF	395373.947	16815
722093.297	4294294.442	8657	07-Nov-13	11072013-001.SSF	395374.9919	16816
722094.181	4294293.874	8532	07-Nov-13	11072013-001.SSF	395377.151	16818
722094.903	4294293.587	8956	07-Nov-13	11072013-001.SSF	395378.9969	16820
722095.325	4294293.387	9005	07-Nov-13	11072013-001.SSF	395379.926	16821
722095.695	4294293.288	8613	07-Nov-13	11072013-001.SSF	395381.031	16822
722095.881	4294293.264	8407	07-Nov-13	11072013-001.SSF	395381.978	16823
722095.968	4294293.061	8546	07-Nov-13	11072013-001.SSF	395383.041	16824

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722096.814	4294292.487	8649	07-Nov-13	11072013-001.SSF	395385.045	16826
722097.135	4294292.31	8713	07-Nov-13	11072013-001.SSF	395385.918	16827
722097.338	4294292.333	8643	07-Nov-13	11072013-001.SSF	395386.939	16828
722097.577	4294292.415	8642	07-Nov-13	11072013-001.SSF	395387.827	16829
722097.454	4294292.271	8513	07-Nov-13	11072013-001.SSF	395388.928	16830
722097.187	4294292.478	9055	07-Nov-13	11072013-001.SSF	395389.806	16831
722096.727	4294292.745	8582	07-Nov-13	11072013-001.SSF	395390.9561	16832
722096.397	4294293.007	8367	07-Nov-13	11072013-001.SSF	395391.851	16833
722094.873	4294294.011	9053	07-Nov-13	11072013-001.SSF	395395.859	16835
722093.394	4294294.381	8762	07-Nov-13	11072013-001.SSF	395401.921	16836
722092.646	4294294.571	9167	07-Nov-13	11072013-001.SSF	395403.837	16837
722092.311	4294294.851	9814	07-Nov-13	11072013-001.SSF	395404.951	16838
722092.045	4294295.211	9765	07-Nov-13	11072013-001.SSF	395405.826	16839
722091.696	4294295.605	9220	07-Nov-13	11072013-001.SSF	395406.849	16840
722091.396	4294295.973	9101	07-Nov-13	11072013-001.SSF	395407.748	16841
722091.323	4294296.563	8959	07-Nov-13	11072013-001.SSF	395408.932	16842
722091.873	4294297.018	8925	07-Nov-13	11072013-001.SSF	395409.8879	16843
722092.662	4294296.87	8995	07-Nov-13	11072013-001.SSF	395411.092	16844
722093.033	4294296.476	8974	07-Nov-13	11072013-001.SSF	395411.9821	16845
722093.344	4294296.133	9593	07-Nov-13	11072013-001.SSF	395413.015	16846
722093.707	4294295.912	9288	07-Nov-13	11072013-001.SSF	395413.983	16847
722094.066	4294295.839	8562	07-Nov-13	11072013-001.SSF	395415.011	16848
722094.331	4294295.786	8746	07-Nov-13	11072013-001.SSF	395415.946	16849
722094.728	4294295.467	9045	07-Nov-13	11072013-001.SSF	395416.97	16850
722095.151	4294295.168	9287	07-Nov-13	11072013-001.SSF	395417.849	16851
722095.465	4294294.772	9371	07-Nov-13	11072013-001.SSF	395418.897	16852
722095.634	4294294.682	8429	07-Nov-13	11072013-001.SSF	395419.835	16853
722095.787	4294294.523	7748	07-Nov-13	11072013-001.SSF	395420.905	16854
722096.086	4294294.448	7921	07-Nov-13	11072013-001.SSF	395421.839	16855
722096.113	4294293.99	8108	07-Nov-13	11072013-001.SSF	395422.955	16856
722096.408	4294293.775	8625	07-Nov-13	11072013-001.SSF	395423.8979	16857
722096.825	4294293.842	8677	07-Nov-13	11072013-001.SSF	395424.928	16858
722097.229	4294293.58	8301	07-Nov-13	11072013-001.SSF	395425.903	16859
722097.604	4294293.15	8306	07-Nov-13	11072013-001.SSF	395426.926	16860
722097.819	4294292.819	8355	07-Nov-13	11072013-001.SSF	395427.858	16861
722097.844	4294292.642	8704	07-Nov-13	11072013-001.SSF	395428.9	16862
722097.696	4294292.627	8714	07-Nov-13	11072013-001.SSF	395429.813	16863
722097.515	4294292.592	8231	07-Nov-13	11072013-001.SSF	395430.969	16864
722097.036	4294292.604	8357	07-Nov-13	11072013-001.SSF	395431.837	16865
722095.9	4294292.963	8923	07-Nov-13	11072013-001.SSF	395432.958	16866
722095.066	4294293.42	8859	07-Nov-13	11072013-001.SSF	395433.876	16867
722094.059	4294293.781	8958	07-Nov-13	11072013-001.SSF	395434.912	16868
722093.169	4294294.169	8571	07-Nov-13	11072013-001.SSF	395435.838	16869
722092.321	4294294.927	8691	07-Nov-13	11072013-001.SSF	395436.9561	16870
722091.772	4294295.915	8609	07-Nov-13	11072013-001.SSF	395437.918	16871
722091.251	4294297.132	8337	07-Nov-13	11072013-001.SSF	395438.9189	16872

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722090.193	4294299.899	7129	07-Nov-13	11072013-001.SSF	395440.876	16874
722090.026	4294300.924	6462	07-Nov-13	11072013-001.SSF	395441.803	16875
722090.515	4294301.776	5952	07-Nov-13	11072013-001.SSF	395442.9301	16876
722091.211	4294302.137	6056	07-Nov-13	11072013-001.SSF	395443.845	16877
722091.658	4294302.63	6211	07-Nov-13	11072013-001.SSF	395444.876	16878
722091.597	4294303.052	6966	07-Nov-13	11072013-001.SSF	395445.889	16879
722091.565	4294303.347	6273	07-Nov-13	11072013-001.SSF	395446.926	16880
722091.682	4294303.523	6521	07-Nov-13	11072013-001.SSF	395447.8831	16881
722091.76	4294303.581	6915	07-Nov-13	11072013-001.SSF	395449.059	16882
722091.707	4294303.611	6927	07-Nov-13	11072013-001.SSF	395449.88	16883
722091.586	4294303.664	6739	07-Nov-13	11072013-001.SSF	395450.968	16884
722091.441	4294303.572	6746	07-Nov-13	11072013-001.SSF	395451.869	16885
722091.561	4294303.594	6794	07-Nov-13	11072013-001.SSF	395452.972	16886
722093.404	4294303.913	6363	07-Nov-13	11072013-001.SSF	395455.02	16887
722094.116	4294304.239	6287	07-Nov-13	11072013-001.SSF	395455.965	16888
722094.809	4294304.244	6093	07-Nov-13	11072013-001.SSF	395456.9821	16889
722095.558	4294304.426	6060	07-Nov-13	11072013-001.SSF	395457.981	16890
722095.885	4294304.807	6438	07-Nov-13	11072013-001.SSF	395459.001	16891
722095.743	4294304.724	6277	07-Nov-13	11072013-001.SSF	395459.7841	16892
722095.544	4294304.642	6283	07-Nov-13	11072013-001.SSF	395460.917	16893
722095.526	4294304.584	6399	07-Nov-13	11072013-001.SSF	395461.933	16894
722095.49	4294304.375	6307	07-Nov-13	11072013-001.SSF	395462.981	16895
722095.485	4294304.371	6337	07-Nov-13	11072013-001.SSF	395463.9139	16896
722095.309	4294304.587	6031	07-Nov-13	11072013-001.SSF	395466.963	16898
722095.341	4294304.604	6482	07-Nov-13	11072013-001.SSF	395467.824	16899
722095.372	4294304.631	6061	07-Nov-13	11072013-001.SSF	395468.981	16900
722095.378	4294304.643	6034	07-Nov-13	11072013-001.SSF	395469.835	16901
722095.372	4294304.634	6102	07-Nov-13	11072013-001.SSF	395470.906	16902
722095.446	4294304.605	6402	07-Nov-13	11072013-001.SSF	395471.79	16903
722095.588	4294304.448	6106	07-Nov-13	11072013-001.SSF	395473.004	16904
722095.695	4294304.206	6405	07-Nov-13	11072013-001.SSF	395473.798	16905
722096.023	4294304.317	6362	07-Nov-13	11072013-001.SSF	395475.01	16906
722096.231	4294304.503	6076	07-Nov-13	11072013-001.SSF	395475.7679	16907
722095.874	4294304.309	5908	07-Nov-13	11072013-001.SSF	395476.946	16908
722095.791	4294303.958	5813	07-Nov-13	11072013-001.SSF	395477.795	16909
722095.998	4294303.946	6112	07-Nov-13	11072013-001.SSF	395478.976	16910
722096.001	4294304.02	5898	07-Nov-13	11072013-001.SSF	395479.879	16911
722096.032	4294304.212	6632	07-Nov-13	11072013-001.SSF	395481.019	16912
722096.286	4294304.292	6731	07-Nov-13	11072013-001.SSF	395481.7791	16913
722096.392	4294304.389	6628	07-Nov-13	11072013-001.SSF	395482.91	16914
722096.211	4294304.45	6848	07-Nov-13	11072013-001.SSF	395483.781	16915
722096.009	4294304.499	6762	07-Nov-13	11072013-001.SSF	395484.8831	16916
722095.7	4294304.813	6503	07-Nov-13	11072013-001.SSF	395485.865	16917
722095.177	4294305.263	6291	07-Nov-13	11072013-001.SSF	395486.984	16918
722095.236	4294305.125	6028	07-Nov-13	11072013-001.SSF	395487.85	16919
722095.242	4294305.007	6016	07-Nov-13	11072013-001.SSF	395488.942	16920

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722095.225	4294305.024	6723	07-Nov-13	11072013-001.SSF	395490.8719	16922
722095.335	4294305.031	6609	07-Nov-13	11072013-001.SSF	395491.8361	16923
722095.456	4294304.983	6312	07-Nov-13	11072013-001.SSF	395492.868	16924
722095.503	4294304.931	6056	07-Nov-13	11072013-001.SSF	395493.809	16925
722095.359	4294304.921	6264	07-Nov-13	11072013-001.SSF	395494.882	16926
722095.218	4294304.878	6598	07-Nov-13	11072013-001.SSF	395495.8199	16927
722095.042	4294304.779	6044	07-Nov-13	11072013-001.SSF	395496.88	16928
722094.922	4294304.69	6414	07-Nov-13	11072013-001.SSF	395497.781	16929
722094.781	4294304.526	6375	07-Nov-13	11072013-001.SSF	395498.9301	16930
722094.642	4294304.419	6623	07-Nov-13	11072013-001.SSF	395499.797	16931
722094.54	4294304.303	6921	07-Nov-13	11072013-001.SSF	395500.916	16932
722094.453	4294304.167	6615	07-Nov-13	11072013-001.SSF	395501.916	16933
722094.351	4294303.976	6608	07-Nov-13	11072013-001.SSF	395502.928	16934
722094.322	4294303.891	6567	07-Nov-13	11072013-001.SSF	395503.803	16935
722096.642	4294307.603	5566	07-Nov-13	11072013-001.SSF	395660.6479	16936
722096.468	4294307.541	5538	07-Nov-13	11072013-001.SSF	395661.535	16937
722096.27	4294307.437	6055	07-Nov-13	11072013-001.SSF	395662.6331	16938
722096.129	4294307.36	5213	07-Nov-13	11072013-001.SSF	395663.613	16939
722095.98	4294307.326	5160	07-Nov-13	11072013-001.SSF	395664.689	16940
722096.094	4294307.405	5407	07-Nov-13	11072013-001.SSF	395665.793	16941
722096.156	4294307.319	5779	07-Nov-13	11072013-001.SSF	395666.9301	16942
722096.323	4294307.346	5246	07-Nov-13	11072013-001.SSF	395667.8	16943
722096.501	4294307.438	5403	07-Nov-13	11072013-001.SSF	395668.92	16944
722096.606	4294307.457	5919	07-Nov-13	11072013-001.SSF	395669.7729	16945
722096.577	4294307.304	5639	07-Nov-13	11072013-001.SSF	395670.897	16946
722096.273	4294307.423	5670	07-Nov-13	11072013-001.SSF	395671.761	16947
722096.846	4294307.587	5529	07-Nov-13	11072013-001.SSF	395672.921	16948
722097.081	4294307.778	5142	07-Nov-13	11072013-001.SSF	395673.808	16949
722097.214	4294308.089	5172	07-Nov-13	11072013-001.SSF	395674.913	16950
722097.253	4294308.311	5482	07-Nov-13	11072013-001.SSF	395675.766	16951
722097.353	4294308.299	5288	07-Nov-13	11072013-001.SSF	395676.884	16952
722097.662	4294308.7	4849	07-Nov-13	11072013-001.SSF	395677.828	16953
722097.918	4294308.889	4858	07-Nov-13	11072013-001.SSF	395678.873	16954
722098.094	4294308.951	5192	07-Nov-13	11072013-001.SSF	395679.83	16955
722098.318	4294309.07	5148	07-Nov-13	11072013-001.SSF	395680.885	16956
722098.469	4294309.119	5281	07-Nov-13	11072013-001.SSF	395681.87	16957
722098.531	4294309.173	5085	07-Nov-13	11072013-001.SSF	395682.9449	16958
722098.608	4294309.207	5395	07-Nov-13	11072013-001.SSF	395683.839	16959
722098.832	4294309.338	5262	07-Nov-13	11072013-001.SSF	395684.947	16960
722098.72	4294309.382	5465	07-Nov-13	11072013-001.SSF	395685.723	16961
722098.712	4294309.467	5174	07-Nov-13	11072013-001.SSF	395686.808	16962
722098.704	4294309.528	4912	07-Nov-13	11072013-001.SSF	395687.808	16963
722098.641	4294309.503	5171	07-Nov-13	11072013-001.SSF	395688.8521	16964
722098.223	4294309.304	5023	07-Nov-13	11072013-001.SSF	395689.851	16965
722097.61	4294309.155	5000	07-Nov-13	11072013-001.SSF	395690.7939	16966
722097.031	4294309.07	5490	07-Nov-13	11072013-001.SSF	395691.79	16967

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722097.253	4294309.084	4938	07-Nov-13	11072013-001.SSF	395693.7939	16969
722097.028	4294309.025	4870	07-Nov-13	11072013-001.SSF	395694.899	16970
722096.881	4294308.897	4854	07-Nov-13	11072013-001.SSF	395695.77	16971
722096.787	4294308.788	5258	07-Nov-13	11072013-001.SSF	395696.892	16972
722096.776	4294308.731	5020	07-Nov-13	11072013-001.SSF	395697.792	16973
722097.119	4294308.758	5148	07-Nov-13	11072013-001.SSF	395698.912	16974
722097.439	4294309.003	5003	07-Nov-13	11072013-001.SSF	395699.797	16975
722097.497	4294309.005	5012	07-Nov-13	11072013-001.SSF	395700.926	16976
722097.448	4294308.798	4867	07-Nov-13	11072013-001.SSF	395701.78	16977
722097.442	4294308.609	5340	07-Nov-13	11072013-001.SSF	395702.817	16978
722097.448	4294308.498	5568	07-Nov-13	11072013-001.SSF	395703.733	16979
722097.371	4294308.442	5615	07-Nov-13	11072013-001.SSF	395704.851	16980
722097.324	4294308.424	5805	07-Nov-13	11072013-001.SSF	395705.774	16981
722097.339	4294308.271	5306	07-Nov-13	11072013-001.SSF	395706.783	16982
722097.421	4294308.13	5227	07-Nov-13	11072013-001.SSF	395707.696	16983
722097.564	4294308.005	5895	07-Nov-13	11072013-001.SSF	395708.816	16984
722097.644	4294307.98	5611	07-Nov-13	11072013-001.SSF	395709.728	16985
722097.616	4294308.14	5136	07-Nov-13	11072013-001.SSF	395710.8781	16986
722097.559	4294308.192	5454	07-Nov-13	11072013-001.SSF	395711.71	16987
722097.506	4294308.217	5242	07-Nov-13	11072013-001.SSF	395712.833	16988
722097.467	4294308.27	5034	07-Nov-13	11072013-001.SSF	395713.77	16989
722097.505	4294308.182	5869	07-Nov-13	11072013-001.SSF	395714.8	16990
722097.707	4294308.089	5948	07-Nov-13	11072013-001.SSF	395715.761	16991
722097.855	4294308.049	5506	07-Nov-13	11072013-001.SSF	395716.8979	16992
722097.98	4294308.326	5482	07-Nov-13	11072013-001.SSF	395717.7321	16993
722098.17	4294308.16	5918	07-Nov-13	11072013-001.SSF	395718.792	16994
722098.169	4294307.359	5954	07-Nov-13	11072013-001.SSF	395719.708	16995
722098.14	4294306.126	6079	07-Nov-13	11072013-001.SSF	395720.842	16996
722098.164	4294305.143	6134	07-Nov-13	11072013-001.SSF	395721.8149	16997
722098.069	4294304.079	5700	07-Nov-13	11072013-001.SSF	395722.969	16998
722097.804	4294303.378	5636	07-Nov-13	11072013-001.SSF	395723.738	16999
722097.318	4294302.229	5893	07-Nov-13	11072013-001.SSF	395724.912	17000
722097.249	4294301.201	5655	07-Nov-13	11072013-001.SSF	395725.787	17001
722097.664	4294299.94	6900	07-Nov-13	11072013-001.SSF	395726.821	17002
722098.123	4294298.931	7669	07-Nov-13	11072013-001.SSF	395727.769	17003
722098.077	4294297.819	8333	07-Nov-13	11072013-001.SSF	395728.816	17004
722097.671	4294297.031	8235	07-Nov-13	11072013-001.SSF	395729.775	17005
722097.544	4294296.276	8262	07-Nov-13	11072013-001.SSF	395730.849	17006
722097.598	4294295.486	8330	07-Nov-13	11072013-001.SSF	395731.778	17007
722097.51	4294294.604	8218	07-Nov-13	11072013-001.SSF	395732.853	17008
722097.531	4294294.119	8417	07-Nov-13	11072013-001.SSF	395733.8	17009
722097.562	4294293.848	8680	07-Nov-13	11072013-001.SSF	395734.856	17010
722097.586	4294293.86	8430	07-Nov-13	11072013-001.SSF	395735.744	17011
722097.711	4294293.986	8484	07-Nov-13	11072013-001.SSF	395736.813	17012
722097.96	4294294.183	9070	07-Nov-13	11072013-001.SSF	395737.7531	17013
722098.279	4294294.688	9279	07-Nov-13	11072013-001.SSF	395738.86	17014

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722098.738	4294295.016	8587	07-Nov-13	11072013-001.SSF	395739.806	17015
722098.984	4294295.159	8940	07-Nov-13	11072013-001.SSF	395740.8831	17016
722098.84	4294295.265	8261	07-Nov-13	11072013-001.SSF	395741.816	17017
722098.705	4294295.362	8367	07-Nov-13	11072013-001.SSF	395742.87	17018
722098.62	4294295.34	8276	07-Nov-13	11072013-001.SSF	395743.778	17019
722098.547	4294295.258	8173	07-Nov-13	11072013-001.SSF	395744.985	17020
722098.472	4294295.284	8032	07-Nov-13	11072013-001.SSF	395745.776	17021
722098.533	4294295.163	8028	07-Nov-13	11072013-001.SSF	395746.832	17022
722098.833	4294295.257	8265	07-Nov-13	11072013-001.SSF	395747.78	17023
722099.329	4294295.269	8219	07-Nov-13	11072013-001.SSF	395748.911	17024
722099.763	4294294.88	8336	07-Nov-13	11072013-001.SSF	395749.719	17025
722099.989	4294294.483	8229	07-Nov-13	11072013-001.SSF	395750.865	17026
722099.637	4294294.303	8626	07-Nov-13	11072013-001.SSF	395751.816	17027
722099.332	4294294.074	8730	07-Nov-13	11072013-001.SSF	395752.8669	17028
722099.149	4294293.968	7685	07-Nov-13	11072013-001.SSF	395753.714	17029
722098.895	4294293.664	8095	07-Nov-13	11072013-001.SSF	395754.969	17030
722098.735	4294293.49	7823	07-Nov-13	11072013-001.SSF	395755.686	17031
722098.608	4294293.442	7963	07-Nov-13	11072013-001.SSF	395756.808	17032
722098.718	4294293.591	7442	07-Nov-13	11072013-001.SSF	395757.714	17033
722099.088	4294293.509	8146	07-Nov-13	11072013-001.SSF	395758.808	17034
722099.264	4294293.555	7739	07-Nov-13	11072013-001.SSF	395759.686	17035
722099.512	4294293.864	7803	07-Nov-13	11072013-001.SSF	395760.743	17036
722099.801	4294294.278	8057	07-Nov-13	11072013-001.SSF	395761.731	17037
722100.241	4294294.535	8282	07-Nov-13	11072013-001.SSF	395762.791	17038
722100.515	4294294.571	8386	07-Nov-13	11072013-001.SSF	395763.723	17039
722100.513	4294294.555	8414	07-Nov-13	11072013-001.SSF	395764.8571	17040
722100.329	4294294.811	8648	07-Nov-13	11072013-001.SSF	395765.782	17041
722100.4	4294294.989	8659	07-Nov-13	11072013-001.SSF	395766.813	17042
722100.739	4294294.86	8418	07-Nov-13	11072013-001.SSF	395767.819	17043
722100.672	4294294.275	8905	07-Nov-13	11072013-001.SSF	395768.816	17044
722100.395	4294293.527	7214	07-Nov-13	11072013-001.SSF	395769.823	17045
722100.091	4294293.119	8370	07-Nov-13	11072013-001.SSF	395770.863	17046
722099.968	4294293.124	9261	07-Nov-13	11072013-001.SSF	395771.802	17047
722100	4294293.208	8591	07-Nov-13	11072013-001.SSF	395772.903	17048
722100.084	4294293.248	8883	07-Nov-13	11072013-001.SSF	395773.812	17049
722100.112	4294293.308	8896	07-Nov-13	11072013-001.SSF	395774.842	17050
722100.046	4294293.275	8574	07-Nov-13	11072013-001.SSF	395775.77	17051
722100.251	4294292.974	8453	07-Nov-13	11072013-001.SSF	395776.814	17052
722100.623	4294293.148	8730	07-Nov-13	11072013-001.SSF	395777.769	17053
722100.939	4294293.396	8608	07-Nov-13	11072013-001.SSF	395778.817	17054
722101.074	4294293.529	8396	07-Nov-13	11072013-001.SSF	395779.787	17055
722101.403	4294293.296	8548	07-Nov-13	11072013-001.SSF	395780.77	17056
722101.775	4294293.103	8333	07-Nov-13	11072013-001.SSF	395781.698	17057
722102.008	4294293.203	8400	07-Nov-13	11072013-001.SSF	395782.765	17058
722102.028	4294293.336	7770	07-Nov-13	11072013-001.SSF	395783.674	17059
722102.015	4294293.417	7693	07-Nov-13	11072013-001.SSF	395784.8149	17060
722102.01	4294293.46	8100	07-Nov-13	11072013-001.SSF	395785.726	17061

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722101.986	4294293.527	8436	07-Nov-13	11072013-001.SSF	395787.724	17063
722101.506	4294293.326	7700	07-Nov-13	11072013-001.SSF	395788.863	17064
722101.312	4294293.09	7458	07-Nov-13	11072013-001.SSF	395789.719	17065
722101.388	4294293.013	8253	07-Nov-13	11072013-001.SSF	395790.765	17066
722101.54	4294293.013	8047	07-Nov-13	11072013-001.SSF	395791.717	17067
722101.668	4294293.001	8419	07-Nov-13	11072013-001.SSF	395792.821	17068
722101.883	4294293.173	7938	07-Nov-13	11072013-001.SSF	395793.653	17069
722102.069	4294293.487	7832	07-Nov-13	11072013-001.SSF	395794.824	17070
722101.617	4294293.496	8343	07-Nov-13	11072013-001.SSF	395795.724	17071
722100.865	4294293.906	8278	07-Nov-13	11072013-001.SSF	395796.782	17072
722100.416	4294294.293	8549	07-Nov-13	11072013-001.SSF	395797.6479	17073
722099.826	4294294.563	8551	07-Nov-13	11072013-001.SSF	395798.729	17074
722099.188	4294294.518	8672	07-Nov-13	11072013-001.SSF	395799.6801	17075
722098.609	4294294.538	8523	07-Nov-13	11072013-001.SSF	395800.7679	17076
722098.542	4294294.467	8709	07-Nov-13	11072013-001.SSF	395801.723	17077
722098.548	4294294.363	8094	07-Nov-13	11072013-001.SSF	395802.7679	17078
722098.513	4294294.433	7912	07-Nov-13	11072013-001.SSF	395803.757	17079
722098.486	4294294.479	8066	07-Nov-13	11072013-001.SSF	395804.837	17080
722098.487	4294294.536	8062	07-Nov-13	11072013-001.SSF	395805.673	17081
722098.228	4294294.906	8555	07-Nov-13	11072013-001.SSF	395806.764	17082
722097.676	4294295.457	8299	07-Nov-13	11072013-001.SSF	395807.661	17083
722096.996	4294296.601	8088	07-Nov-13	11072013-001.SSF	395808.7629	17084
722096.628	4294297.724	8329	07-Nov-13	11072013-001.SSF	395809.723	17085
722096.221	4294298.73	8428	07-Nov-13	11072013-001.SSF	395810.79	17086
722096.107	4294299.482	8085	07-Nov-13	11072013-001.SSF	395811.715	17087
722096.226	4294300.444	7833	07-Nov-13	11072013-001.SSF	395812.7679	17088
722096.079	4294301.605	7751	07-Nov-13	11072013-001.SSF	395813.769	17089
722096.003	4294302.458	6820	07-Nov-13	11072013-001.SSF	395814.821	17090
722096.141	4294302.633	6401	07-Nov-13	11072013-001.SSF	395815.781	17091
722096.29	4294302.541	6383	07-Nov-13	11072013-001.SSF	395816.843	17092
722096.355	4294302.519	6080	07-Nov-13	11072013-001.SSF	395817.791	17093
722093.736	4294302.538	4876	07-Nov-13	11072013-001.SSF	396864.4509	17094
722094.611	4294302.638	5600	07-Nov-13	11072013-001.SSF	396865.3301	17095
722095.404	4294302.105	6322	07-Nov-13	11072013-001.SSF	396866.3789	17096
722096.019	4294301.237	6774	07-Nov-13	11072013-001.SSF	396867.3259	17097
722097.04	4294300.185	7935	07-Nov-13	11072013-001.SSF	396868.4199	17098
722098.022	4294299.326	8378	07-Nov-13	11072013-001.SSF	396869.365	17099
722098.429	4294298.189	7623	07-Nov-13	11072013-001.SSF	396870.386	17100
722098.069	4294296.999	7235	07-Nov-13	11072013-001.SSF	396871.3269	17101
722097.697	4294295.725	7669	07-Nov-13	11072013-001.SSF	396872.4351	17102
722097.653	4294294.659	7929	07-Nov-13	11072013-001.SSF	396873.3501	17103
722097.452	4294293.729	7992	07-Nov-13	11072013-001.SSF	396874.4131	17104
722097.013	4294293.428	8433	07-Nov-13	11072013-001.SSF	396875.3689	17105
722096.701	4294293.213	8913	07-Nov-13	11072013-001.SSF	396876.3669	17106
722096.621	4294292.815	8845	07-Nov-13	11072013-001.SSF	396877.293	17107
722096.715	4294292.267	8638	07-Nov-13	11072013-001.SSF	396878.3511	17108

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722096.701	4294291.876	9074	07-Nov-13	11072013-001.SSF	396879.3589	17109
722096.578	4294291.539	9304	07-Nov-13	11072013-001.SSF	396880.447	17110
722096.426	4294291.478	9778	07-Nov-13	11072013-001.SSF	396881.3721	17111
722096.313	4294291.531	9280	07-Nov-13	11072013-001.SSF	396882.4089	17112
722096.308	4294291.578	9330	07-Nov-13	11072013-001.SSF	396883.408	17113
722096.199	4294291.495	8848	07-Nov-13	11072013-001.SSF	396884.4409	17114
722096.075	4294291.261	8766	07-Nov-13	11072013-001.SSF	396885.3469	17115
722096.124	4294291.041	8852	07-Nov-13	11072013-001.SSF	396886.4331	17116
722096.285	4294290.941	8722	07-Nov-13	11072013-001.SSF	396887.365	17117
722096.32	4294290.798	8708	07-Nov-13	11072013-001.SSF	396888.3889	17118
722096.345	4294290.73	8071	07-Nov-13	11072013-001.SSF	396889.384	17119
722096.431	4294290.725	8380	07-Nov-13	11072013-001.SSF	396890.396	17120
722096.358	4294290.52	8658	07-Nov-13	11072013-001.SSF	396891.4089	17121
722096.377	4294290.246	8913	07-Nov-13	11072013-001.SSF	396892.418	17122
722096.287	4294290.075	9116	07-Nov-13	11072013-001.SSF	396893.3269	17123
722095.734	4294289.899	8427	07-Nov-13	11072013-001.SSF	396894.4829	17124
722095.452	4294289.753	8505	07-Nov-13	11072013-001.SSF	396895.301	17125
722095.468	4294289.66	8789	07-Nov-13	11072013-001.SSF	396896.4089	17126
722095.593	4294289.682	8716	07-Nov-13	11072013-001.SSF	396897.3191	17127
722095.446	4294289.632	8375	07-Nov-13	11072013-001.SSF	396898.343	17128
722095.154	4294289.515	8671	07-Nov-13	11072013-001.SSF	396899.2561	17129
722094.914	4294289.505	8237	07-Nov-13	11072013-001.SSF	396900.438	17130
722094.831	4294289.517	8338	07-Nov-13	11072013-001.SSF	396901.375	17131
722094.846	4294289.615	8823	07-Nov-13	11072013-001.SSF	396902.4619	17132
722094.814	4294289.839	8788	07-Nov-13	11072013-001.SSF	396903.376	17133
722094.607	4294290.157	8843	07-Nov-13	11072013-001.SSF	396904.4719	17134
722094.491	4294290.361	9294	07-Nov-13	11072013-001.SSF	396905.343	17135
722094.385	4294290.587	8445	07-Nov-13	11072013-001.SSF	396906.3579	17136
722094.447	4294290.866	8704	07-Nov-13	11072013-001.SSF	396907.2991	17137
722094.913	4294291.566	8445	07-Nov-13	11072013-001.SSF	396908.4209	17138
722095.063	4294292.137	8283	07-Nov-13	11072013-001.SSF	396909.3359	17139
722095.213	4294292.447	8289	07-Nov-13	11072013-001.SSF	396910.4441	17140
722095.297	4294292.701	8052	07-Nov-13	11072013-001.SSF	396911.3669	17141
722095.264	4294292.969	8962	07-Nov-13	11072013-001.SSF	396912.48	17142
722095.328	4294293.159	9181	07-Nov-13	11072013-001.SSF	396913.324	17143
722095.739	4294293.321	9229	07-Nov-13	11072013-001.SSF	396914.4041	17144
722095.93	4294293.653	9106	07-Nov-13	11072013-001.SSF	396915.3789	17145
722095.851	4294294.095	8512	07-Nov-13	11072013-001.SSF	396916.3911	17146
722095.884	4294294.281	8493	07-Nov-13	11072013-001.SSF	396917.3411	17147
722096.076	4294294.131	8602	07-Nov-13	11072013-001.SSF	396918.4609	17148
722096.094	4294293.876	8048	07-Nov-13	11072013-001.SSF	396919.3889	17149
722096.092	4294293.566	8495	07-Nov-13	11072013-001.SSF	396920.4041	17150
722096.135	4294293.443	8550	07-Nov-13	11072013-001.SSF	396921.3459	17151
722096.087	4294293.443	9017	07-Nov-13	11072013-001.SSF	396922.408	17152
722095.986	4294293.475	9092	07-Nov-13	11072013-001.SSF	396923.2661	17153
722095.928	4294293.565	9247	07-Nov-13	11072013-001.SSF	396924.3181	17154
722095.991	4294293.552	8928	07-Nov-13	11072013-001.SSF	396925.3611	17155

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722096.065	4294293.271	9507	07-Nov-13	11072013-001.SSF	396926.426	17156
722096.241	4294293.165	9360	07-Nov-13	11072013-001.SSF	396927.385	17157
722096.596	4294293.409	9412	07-Nov-13	11072013-001.SSF	396928.4299	17158
722096.924	4294293.911	8932	07-Nov-13	11072013-001.SSF	396929.4099	17159
722097.117	4294294.147	8354	07-Nov-13	11072013-001.SSF	396930.4231	17160
722096.769	4294294.025	7841	07-Nov-13	11072013-001.SSF	396931.3621	17161
722095.892	4294294.171	7448	07-Nov-13	11072013-001.SSF	396932.417	17162
722094.999	4294294.775	7662	07-Nov-13	11072013-001.SSF	396933.3711	17163
722094.003	4294295.842	8315	07-Nov-13	11072013-001.SSF	396934.438	17164
722093.393	4294296.734	7962	07-Nov-13	11072013-001.SSF	396935.3411	17165
722092.954	4294297.658	8603	07-Nov-13	11072013-001.SSF	396936.3821	17166
722092.531	4294298.6	8807	07-Nov-13	11072013-001.SSF	396937.3379	17167
722091.924	4294299.715	8171	07-Nov-13	11072013-001.SSF	396938.375	17168
722091.211	4294300.701	7086	07-Nov-13	11072013-001.SSF	396939.408	17169
722090.614	4294301.203	6026	07-Nov-13	11072013-001.SSF	396940.3269	17170
722090.135	4294301.382	5317	07-Nov-13	11072013-001.SSF	396941.312	17171
722089.914	4294301.437	4753	07-Nov-13	11072013-001.SSF	396942.311	17172
722090.007	4294301.42	4188	07-Nov-13	11072013-001.SSF	396943.325	17173
722090.109	4294301.458	4373	07-Nov-13	11072013-001.SSF	396944.2859	17174
722090.106	4294301.579	4282	07-Nov-13	11072013-001.SSF	396945.376	17175
722090.157	4294301.582	4306	07-Nov-13	11072013-001.SSF	396946.4331	17176
722090.276	4294301.549	4657	07-Nov-13	11072013-001.SSF	396947.3899	17177
722090.262	4294301.481	4502	07-Nov-13	11072013-001.SSF	396948.459	17178
722089.938	4294301.411	4332	07-Nov-13	11072013-001.SSF	396949.4041	17179
722089.56	4294301.53	4199	07-Nov-13	11072013-001.SSF	396950.488	17180
722089.569	4294301.616	4529	07-Nov-13	11072013-001.SSF	396951.4629	17181
722089.8	4294301.57	4288	07-Nov-13	11072013-001.SSF	396952.4319	17182
722090.065	4294301.615	4061	07-Nov-13	11072013-001.SSF	396953.3899	17183
722090.011	4294302.054	3882	07-Nov-13	11072013-003.SSF	397355.15	17184
722090.006	4294302.05	3736	07-Nov-13	11072013-003.SSF	397356.305	17185
722089.984	4294302.017	3609	07-Nov-13	11072013-003.SSF	397357.245	17186
722089.981	4294302.027	3972	07-Nov-13	11072013-003.SSF	397358.266	17187
722089.966	4294302.032	3982	07-Nov-13	11072013-003.SSF	397359.264	17188
722089.947	4294302.025	4122	07-Nov-13	11072013-003.SSF	397360.225	17189
722089.928	4294302.003	4336	07-Nov-13	11072013-003.SSF	397361.06	17190
722089.912	4294301.981	4269	07-Nov-13	11072013-003.SSF	397362.197	17191
722089.904	4294301.956	3908	07-Nov-13	11072013-003.SSF	397363.096	17192
722089.909	4294301.967	3863	07-Nov-13	11072013-003.SSF	397364.241	17193
722089.881	4294301.942	3965	07-Nov-13	11072013-003.SSF	397365.146	17194
722089.842	4294301.894	3843	07-Nov-13	11072013-003.SSF	397366.262	17195
722089.816	4294301.85	3909	07-Nov-13	11072013-003.SSF	397367.168	17196
722089.818	4294301.849	3699	07-Nov-13	11072013-003.SSF	397368.218	17197
722089.784	4294301.836	3625	07-Nov-13	11072013-003.SSF	397369.187	17198
722089.639	4294301.815	3899	07-Nov-13	11072013-003.SSF	397370.256	17199
722089.573	4294301.825	3701	07-Nov-13	11072013-003.SSF	397371.201	17200
722089.496	4294301.806	3836	07-Nov-13	11072013-003.SSF	397372.287	17201
722089.45	4294301.797	3890	07-Nov-13	11072013-003.SSF	397373.255	17202

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722089.407	4294301.782	4281	07-Nov-13	11072013-003.SSF	397374.311	17203
722089.382	4294301.77	3840	07-Nov-13	11072013-003.SSF	397375.192	17204
722089.379	4294301.77	3555	07-Nov-13	11072013-003.SSF	397375.919	17205
722089.364	4294301.742	3949	07-Nov-13	11072013-003.SSF	397376.837	17206
722089.346	4294301.717	4456	07-Nov-13	11072013-003.SSF	397377.912	17207
722089.36	4294301.736	4742	07-Nov-13	11072013-003.SSF	397378.797	17208
722089.353	4294301.726	4294	07-Nov-13	11072013-003.SSF	397380.283	17209
722089.349	4294301.72	4163	07-Nov-13	11072013-003.SSF	397381.133	17210
722089.351	4294301.725	4029	07-Nov-13	11072013-003.SSF	397382.293	17211
722089.325	4294301.683	4156	07-Nov-13	11072013-003.SSF	397383.222	17212
722089.32	4294301.682	3883	07-Nov-13	11072013-003.SSF	397384.234	17213
722089.312	4294301.696	4321	07-Nov-13	11072013-003.SSF	397385.277	17214
722089.288	4294301.705	4253	07-Nov-13	11072013-003.SSF	397386.175	17215
722089.27	4294301.683	4245	07-Nov-13	11072013-003.SSF	397387.177	17216
722089.289	4294301.699	3948	07-Nov-13	11072013-003.SSF	397388.268	17217
722089.31	4294301.717	3750	07-Nov-13	11072013-003.SSF	397389.217	17218
722089.31	4294301.696	3737	07-Nov-13	11072013-003.SSF	397390.342	17219
722089.314	4294301.687	3692	07-Nov-13	11072013-003.SSF	397391.228	17220
722089.32	4294301.692	4177	07-Nov-13	11072013-003.SSF	397392.301	17221
722089.31	4294301.677	4194	07-Nov-13	11072013-003.SSF	397393.203	17222
722089.313	4294301.706	4301	07-Nov-13	11072013-003.SSF	397394.263	17223
722089.317	4294301.73	4249	07-Nov-13	11072013-003.SSF	397395.161	17224
722089.341	4294301.773	4205	07-Nov-13	11072013-003.SSF	397396.219	17225
722089.332	4294301.752	3813	07-Nov-13	11072013-003.SSF	397397.151	17226
722089.305	4294301.689	3832	07-Nov-13	11072013-003.SSF	397398.333	17227
722089.267	4294301.541	3888	07-Nov-13	11072013-003.SSF	397399.316	17228
722089.215	4294301.404	4212	07-Nov-13	11072013-003.SSF	397400.135	17229
722089.112	4294301.158	3974	07-Nov-13	11072013-003.SSF	397401.056	17230
722089.053	4294300.999	4208	07-Nov-13	11072013-003.SSF	397402.063	17231
722089.007	4294300.897	4197	07-Nov-13	11072013-003.SSF	397403.032	17232
722088.972	4294300.831	4160	07-Nov-13	11072013-003.SSF	397404.119	17233
722088.954	4294300.775	4268	07-Nov-13	11072013-003.SSF	397405.226	17234
722088.91	4294300.679	4043	07-Nov-13	11072013-003.SSF	397406.361	17235
722088.903	4294300.651	3766	07-Nov-13	11072013-003.SSF	397407.16	17236
722088.919	4294300.654	3986	07-Nov-13	11072013-003.SSF	397408.259	17237
722088.933	4294300.662	4230	07-Nov-13	11072013-003.SSF	397409.236	17238
722088.935	4294300.654	4036	07-Nov-13	11072013-003.SSF	397410.236	17239
722088.943	4294300.661	3755	07-Nov-13	11072013-003.SSF	397411.243	17240
722088.941	4294300.671	3800	07-Nov-13	11072013-003.SSF	397412.264	17241
722088.93	4294300.648	3772	07-Nov-13	11072013-003.SSF	397413.208	17242
722089.042	4294300.822	3629	07-Nov-13	11072013-003.SSF	397414.265	17243
722090.068	4294300.767	4543	07-Nov-13	11072013-003.SSF	397445.263	17244
722090.053	4294300.732	4115	07-Nov-13	11072013-003.SSF	397446.343	17245
722090.067	4294300.681	4685	07-Nov-13	11072013-003.SSF	397447.266	17246
722090.121	4294300.695	4758	07-Nov-13	11072013-003.SSF	397448.276	17247
722090.132	4294300.755	4716	07-Nov-13	11072013-003.SSF	397449.298	17248
722090.1	4294300.77	4813	07-Nov-13	11072013-003.SSF	397450.267	17249

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722090.122	4294300.778	4128	07-Nov-13	11072013-003.SSF	397452.308	17251
722090.204	4294300.846	4047	07-Nov-13	11072013-003.SSF	397453.206	17252
722090.232	4294300.914	4196	07-Nov-13	11072013-003.SSF	397454.28	17253
722090.181	4294300.952	4333	07-Nov-13	11072013-003.SSF	397455.163	17254
722090.194	4294300.915	4027	07-Nov-13	11072013-003.SSF	397456.291	17255
722090.269	4294300.967	3810	07-Nov-13	11072013-003.SSF	397457.186	17256
722090.592	4294301.093	4378	07-Nov-13	11072013-003.SSF	397458.31	17257
722090.883	4294300.766	5013	07-Nov-13	11072013-003.SSF	397459.148	17258
722090.941	4294299.578	5422	07-Nov-13	11072013-003.SSF	397460.323	17259
722091.082	4294298.625	6290	07-Nov-13	11072013-003.SSF	397461.258	17260
722091.454	4294297.703	7115	07-Nov-13	11072013-003.SSF	397462.315	17261
722091.715	4294297.165	8540	07-Nov-13	11072013-003.SSF	397463.252	17262
722091.651	4294297.071	8043	07-Nov-13	11072013-003.SSF	397464.305	17263
722091.492	4294297.035	8222	07-Nov-13	11072013-003.SSF	397465.262	17264
722091.546	4294297.103	8697	07-Nov-13	11072013-003.SSF	397466.36	17265
722091.614	4294297.148	9392	07-Nov-13	11072013-003.SSF	397467.326	17266
722091.665	4294297.148	9018	07-Nov-13	11072013-003.SSF	397468.307	17267
722091.749	4294297.176	8882	07-Nov-13	11072013-003.SSF	397469.261	17268
722091.791	4294297.234	8536	07-Nov-13	11072013-003.SSF	397470.337	17269
722091.768	4294297.241	8851	07-Nov-13	11072013-003.SSF	397471.328	17270
722091.749	4294297.232	8391	07-Nov-13	11072013-003.SSF	397472.349	17271
722091.741	4294297.224	8110	07-Nov-13	11072013-003.SSF	397473.231	17272
722091.735	4294297.223	8612	07-Nov-13	11072013-003.SSF	397474.302	17273
722091.745	4294297.243	9082	07-Nov-13	11072013-003.SSF	397475.281	17274
722091.763	4294297.261	8386	07-Nov-13	11072013-003.SSF	397476.195	17275
722091.794	4294297.279	8669	07-Nov-13	11072013-003.SSF	397477.139	17276
722091.794	4294297.263	8514	07-Nov-13	11072013-003.SSF	397478.248	17277
722091.791	4294297.269	8974	07-Nov-13	11072013-003.SSF	397479.126	17278
722091.775	4294297.269	8940	07-Nov-13	11072013-003.SSF	397480.31	17279
722091.758	4294297.274	8876	07-Nov-13	11072013-003.SSF	397481.141	17280
722091.729	4294297.232	8615	07-Nov-13	11072013-003.SSF	397482.309	17281
722091.718	4294297.204	8071	07-Nov-13	11072013-003.SSF	397483.127	17282
722091.679	4294297.126	8710	07-Nov-13	11072013-003.SSF	397484.273	17283
722091.643	4294297.103	8919	07-Nov-13	11072013-003.SSF	397485.29	17284
722091.604	4294297.09	8939	07-Nov-13	11072013-003.SSF	397486.301	17285
722091.593	4294297.106	8838	07-Nov-13	11072013-003.SSF	397487.196	17286
722091.585	4294297.089	9111	07-Nov-13	11072013-003.SSF	397488.233	17287
722091.629	4294297.111	8582	07-Nov-13	11072013-003.SSF	397489.184	17288
722091.765	4294297.197	8150	07-Nov-13	11072013-003.SSF	397490.337	17289
722091.699	4294297.15	8019	07-Nov-13	11072013-003.SSF	397491.327	17290
722091.508	4294297.018	8051	07-Nov-13	11072013-003.SSF	397492.429	17291
722091.484	4294297.036	8001	07-Nov-13	11072013-003.SSF	397493.265	17292
722091.529	4294297.048	7740	07-Nov-13	11072013-003.SSF	397494.318	17293
722091.582	4294297.04	8539	07-Nov-13	11072013-003.SSF	397495.246	17294
722091.608	4294297.032	8560	07-Nov-13	11072013-003.SSF	397496.334	17295
722091.633	4294297.038	8580	07-Nov-13	11072013-003.SSF	397497.259	17296

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722091.681	4294297.051	9131	07-Nov-13	11072013-003.SSF	397499.24	17298
722091.702	4294297.073	8931	07-Nov-13	11072013-003.SSF	397500.316	17299
722091.71	4294297.086	9261	07-Nov-13	11072013-003.SSF	397501.243	17300
722091.709	4294297.084	8629	07-Nov-13	11072013-003.SSF	397502.272	17301
722091.717	4294297.09	8566	07-Nov-13	11072013-003.SSF	397503.21	17302
722091.722	4294297.098	8576	07-Nov-13	11072013-003.SSF	397504.306	17303
722091.727	4294297.108	8739	07-Nov-13	11072013-003.SSF	397505.205	17304
722091.727	4294297.125	8538	07-Nov-13	11072013-003.SSF	397506.206	17305
722091.742	4294297.233	8942	07-Nov-13	11072013-003.SSF	397507.243	17306
722091.756	4294297.306	9252	07-Nov-13	11072013-003.SSF	397508.262	17307
722091.754	4294297.342	8722	07-Nov-13	11072013-003.SSF	397509.275	17308
722091.764	4294297.387	8738	07-Nov-13	11072013-003.SSF	397510.217	17309
722091.79	4294297.459	8343	07-Nov-13	11072013-003.SSF	397511.2	17310
722091.8	4294297.512	8300	07-Nov-13	11072013-003.SSF	397512.272	17311
722091.818	4294297.549	8235	07-Nov-13	11072013-003.SSF	397513.12	17312
722091.847	4294297.577	8823	07-Nov-13	11072013-003.SSF	397514.28	17313
722091.887	4294297.637	8698	07-Nov-13	11072013-003.SSF	397515.23	17314
722091.93	4294297.777	8853	07-Nov-13	11072013-003.SSF	397516.191	17315
722091.917	4294297.792	8962	07-Nov-13	11072013-003.SSF	397517.189	17316
722091.887	4294297.852	8401	07-Nov-13	11072013-003.SSF	397518.434	17317
722091.873	4294297.867	8160	07-Nov-13	11072013-003.SSF	397519.206	17318
722091.877	4294297.872	8857	07-Nov-13	11072013-003.SSF	397520.238	17319
722091.876	4294297.865	8470	07-Nov-13	11072013-003.SSF	397521.185	17320
722091.873	4294297.865	8499	07-Nov-13	11072013-003.SSF	397522.296	17321
722091.874	4294297.861	8441	07-Nov-13	11072013-003.SSF	397523.142	17322
722091.883	4294297.843	8205	07-Nov-13	11072013-003.SSF	397524.242	17323
722091.895	4294297.829	8223	07-Nov-13	11072013-003.SSF	397525.236	17324
722091.898	4294297.818	8653	07-Nov-13	11072013-003.SSF	397526.215	17325
722091.917	4294297.83	8744	07-Nov-13	11072013-003.SSF	397527.263	17326
722091.925	4294297.828	8549	07-Nov-13	11072013-003.SSF	397528.232	17327
722091.93	4294297.824	8266	07-Nov-13	11072013-003.SSF	397529.195	17328
722091.947	4294297.824	7994	07-Nov-13	11072013-003.SSF	397530.239	17329
722091.954	4294297.813	7984	07-Nov-13	11072013-003.SSF	397531.193	17330
722091.951	4294297.813	8278	07-Nov-13	11072013-003.SSF	397532.289	17331
722091.927	4294297.809	8234	07-Nov-13	11072013-003.SSF	397533.204	17332
722091.939	4294297.797	7976	07-Nov-13	11072013-003.SSF	397534.207	17333
722091.979	4294297.784	8162	07-Nov-13	11072013-003.SSF	397535.205	17334
722092.004	4294297.814	8633	07-Nov-13	11072013-003.SSF	397536.298	17335
722092.008	4294297.836	8883	07-Nov-13	11072013-003.SSF	397537.152	17336
722091.991	4294297.815	9242	07-Nov-13	11072013-003.SSF	397538.283	17337
722092.005	4294297.813	8431	07-Nov-13	11072013-003.SSF	397539.13	17338
722092.036	4294297.802	8830	07-Nov-13	11072013-003.SSF	397540.27	17339
722092.057	4294297.801	8447	07-Nov-13	11072013-003.SSF	397541.2	17340
722091.987	4294297.771	8478	07-Nov-13	11072013-003.SSF	397542.252	17341
722091.949	4294297.783	8414	07-Nov-13	11072013-003.SSF	397543.152	17342
722091.933	4294297.778	8280	07-Nov-13	11072013-003.SSF	397544.272	17343

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722091.932	4294297.77	8212	07-Nov-13	11072013-003.SSF	397545.059	17344
722091.942	4294297.758	8459	07-Nov-13	11072013-003.SSF	397546.162	17345
722091.934	4294297.707	8861	07-Nov-13	11072013-003.SSF	397547.141	17346
722091.91	4294297.682	8719	07-Nov-13	11072013-003.SSF	397548.243	17347
722091.885	4294297.668	8302	07-Nov-13	11072013-003.SSF	397549.127	17348
722091.834	4294297.666	7670	07-Nov-13	11072013-003.SSF	397550.194	17349
722091.806	4294297.673	8019	07-Nov-13	11072013-003.SSF	397551.161	17350
722091.831	4294297.678	8021	07-Nov-13	11072013-003.SSF	397552.239	17351
722091.84	4294297.668	8584	07-Nov-13	11072013-003.SSF	397553.06	17352
722091.85	4294297.7	8578	07-Nov-13	11072013-003.SSF	397554.216	17353
722091.852	4294297.678	9348	07-Nov-13	11072013-003.SSF	397555.098	17354
722091.871	4294297.651	9248	07-Nov-13	11072013-003.SSF	397556.238	17355
722091.878	4294297.643	9679	07-Nov-13	11072013-003.SSF	397557.054	17356
722091.856	4294297.637	8805	07-Nov-13	11072013-003.SSF	397558.153	17357
722091.849	4294297.665	8770	07-Nov-13	11072013-003.SSF	397559.135	17358
722091.849	4294297.667	9050	07-Nov-13	11072013-003.SSF	397560.225	17359
722091.847	4294297.655	8788	07-Nov-13	11072013-003.SSF	397561.167	17360
722091.852	4294297.652	8423	07-Nov-13	11072013-003.SSF	397562.158	17361
722091.85	4294297.625	8645	07-Nov-13	11072013-003.SSF	397563.177	17362
722091.843	4294297.62	8215	07-Nov-13	11072013-003.SSF	397564.172	17363
722091.848	4294297.624	8648	07-Nov-13	11072013-003.SSF	397565.224	17364
722091.862	4294297.627	8615	07-Nov-13	11072013-003.SSF	397566.191	17365
722091.85	4294297.596	8723	07-Nov-13	11072013-003.SSF	397567.165	17366
722091.852	4294297.586	8619	07-Nov-13	11072013-003.SSF	397568.209	17367
722091.866	4294297.587	8921	07-Nov-13	11072013-003.SSF	397569.244	17368
722091.868	4294297.572	9068	07-Nov-13	11072013-003.SSF	397570.225	17369
722091.873	4294297.577	8745	07-Nov-13	11072013-003.SSF	397571.2	17370
722091.867	4294297.572	8467	07-Nov-13	11072013-003.SSF	397572.244	17371
722091.89	4294297.601	8150	07-Nov-13	11072013-003.SSF	397573.12	17372
722091.905	4294297.614	8006	07-Nov-13	11072013-003.SSF	397574.284	17373
722091.901	4294297.621	7923	07-Nov-13	11072013-003.SSF	397575.082	17374
722091.894	4294297.642	8342	07-Nov-13	11072013-003.SSF	397576.157	17375
722091.884	4294297.648	8427	07-Nov-13	11072013-003.SSF	397577.159	17376
722091.866	4294297.633	9052	07-Nov-13	11072013-003.SSF	397578.215	17377
722091.866	4294297.609	8429	07-Nov-13	11072013-003.SSF	397579.193	17378
722091.906	4294297.61	8154	07-Nov-13	11072013-003.SSF	397580.223	17379
722091.932	4294297.595	8216	07-Nov-13	11072013-003.SSF	397581.097	17380
722091.949	4294297.608	7854	07-Nov-13	11072013-003.SSF	397582.213	17381
722091.937	4294297.595	8183	07-Nov-13	11072013-003.SSF	397583.048	17382
722091.93	4294297.587	8465	07-Nov-13	11072013-003.SSF	397584.224	17383
722091.922	4294297.576	8099	07-Nov-13	11072013-003.SSF	397585.249	17384
722091.907	4294297.585	8523	07-Nov-13	11072013-003.SSF	397586.244	17385
722091.896	4294297.593	8409	07-Nov-13	11072013-003.SSF	397587.217	17386
722091.897	4294297.588	8795	07-Nov-13	11072013-003.SSF	397588.254	17387
722091.888	4294297.577	8847	07-Nov-13	11072013-003.SSF	397589.262	17388
722091.87	4294297.561	9446	07-Nov-13	11072013-003.SSF	397590.252	17389
722091.858	4294297.549	8553	07-Nov-13	11072013-003.SSF	397591.247	17390

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722091.86	4294297.528	8552	07-Nov-13	11072013-003.SSF	397593.244	17392
722091.867	4294297.513	8658	07-Nov-13	11072013-003.SSF	397594.243	17393
722091.876	4294297.522	9032	07-Nov-13	11072013-003.SSF	397595.058	17394
722091.866	4294297.529	8651	07-Nov-13	11072013-003.SSF	397596.26	17395
722091.865	4294297.532	8398	07-Nov-13	11072013-003.SSF	397597.056	17396
722091.882	4294297.515	8016	07-Nov-13	11072013-003.SSF	397598.241	17397
722091.888	4294297.494	7667	07-Nov-13	11072013-003.SSF	397599.262	17398
722091.864	4294297.455	7702	07-Nov-13	11072013-003.SSF	397600.232	17399
722091.854	4294297.433	7955	07-Nov-13	11072013-003.SSF	397601.142	17400
722091.855	4294297.435	8539	07-Nov-13	11072013-003.SSF	397602.293	17401
722091.824	4294297.428	8606	07-Nov-13	11072013-003.SSF	397603.092	17402
722091.826	4294297.463	8853	07-Nov-13	11072013-003.SSF	397604.298	17403
722091.863	4294297.489	9112	07-Nov-13	11072013-003.SSF	397605.262	17404
722091.872	4294297.472	8876	07-Nov-13	11072013-003.SSF	397606.217	17405
722091.895	4294297.479	8585	07-Nov-13	11072013-003.SSF	397607.199	17406
722091.908	4294297.486	8789	07-Nov-13	11072013-003.SSF	397608.146	17407
722091.9	4294297.498	8251	07-Nov-13	11072013-003.SSF	397609.335	17408
722091.91	4294297.516	8091	07-Nov-13	11072013-003.SSF	397610.178	17409
722091.94	4294297.516	8046	07-Nov-13	11072013-003.SSF	397611.171	17410
722091.969	4294297.506	8178	07-Nov-13	11072013-003.SSF	397612.233	17411
722091.984	4294297.521	7840	07-Nov-13	11072013-003.SSF	397613.184	17412
722091.983	4294297.536	7650	07-Nov-13	11072013-003.SSF	397614.257	17413
722091.999	4294297.563	8675	07-Nov-13	11072013-003.SSF	397615.088	17414
722092.026	4294297.565	8960	07-Nov-13	11072013-003.SSF	397616.167	17415
722092.028	4294297.572	8572	07-Nov-13	11072013-003.SSF	397617.218	17416
722091.987	4294297.587	8467	07-Nov-13	11072013-003.SSF	397618.201	17417
722091.966	4294297.643	8325	07-Nov-13	11072013-003.SSF	397619.076	17418
722091.916	4294297.645	8463	07-Nov-13	11072013-003.SSF	397620.263	17419
722091.883	4294297.614	8818	07-Nov-13	11072013-003.SSF	397621.156	17420
722091.863	4294297.597	8792	07-Nov-13	11072013-003.SSF	397622.332	17421
722091.86	4294297.581	8598	07-Nov-13	11072013-003.SSF	397623.3	17422
722091.867	4294297.567	8834	07-Nov-13	11072013-003.SSF	397624.336	17423
722091.862	4294297.55	8839	07-Nov-13	11072013-003.SSF	397625.292	17424
722091.859	4294297.542	9112	07-Nov-13	11072013-003.SSF	397626.306	17425
722091.865	4294297.549	8568	07-Nov-13	11072013-003.SSF	397627.122	17426
722091.862	4294297.568	8322	07-Nov-13	11072013-003.SSF	397628.331	17427
722091.863	4294297.571	8506	07-Nov-13	11072013-003.SSF	397629.284	17428
722091.87	4294297.582	8227	07-Nov-13	11072013-003.SSF	397630.261	17429
722091.864	4294297.584	8280	07-Nov-13	11072013-003.SSF	397631.097	17430
722091.871	4294297.595	8497	07-Nov-13	11072013-003.SSF	397632.257	17431
722091.88	4294297.593	8522	07-Nov-13	11072013-003.SSF	397633.112	17432
722091.895	4294297.561	8334	07-Nov-13	11072013-003.SSF	397634.233	17433
722091.905	4294297.571	8535	07-Nov-13	11072013-003.SSF	397635.064	17434
722091.871	4294297.583	8416	07-Nov-13	11072013-003.SSF	397636.239	17435
722091.852	4294297.58	8236	07-Nov-13	11072013-003.SSF	397637.07	17436
722091.846	4294297.58	8008	07-Nov-13	11072013-003.SSF	397638.25	17437

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722091.857	4294297.577	8382	07-Nov-13	11072013-003.SSF	397639.112	17438
722091.863	4294297.574	8862	07-Nov-13	11072013-003.SSF	397640.214	17439
722091.869	4294297.573	8412	07-Nov-13	11072013-003.SSF	397641.099	17440
722091.886	4294297.578	8534	07-Nov-13	11072013-003.SSF	397642.302	17441
722091.897	4294297.573	8700	07-Nov-13	11072013-003.SSF	397643.041	17442
722092.029	4294297.529	8809	07-Nov-13	11072013-003.SSF	397644.29	17443
722092.286	4294297.528	9042	07-Nov-13	11072013-003.SSF	397645.096	17444
722092.799	4294297.242	8949	07-Nov-13	11072013-003.SSF	397646.181	17445
722093.194	4294296.81	9001	07-Nov-13	11072013-003.SSF	397647.051	17446
722093.718	4294295.984	8978	07-Nov-13	11072013-003.SSF	397648.231	17447
722094.093	4294295.248	8320	07-Nov-13	11072013-003.SSF	397649.059	17448
722094.457	4294294.114	8302	07-Nov-13	11072013-003.SSF	397650.29	17449
722094.361	4294293.282	8292	07-Nov-13	11072013-003.SSF	397651.205	17450
722094.152	4294292.647	8174	07-Nov-13	11072013-003.SSF	397652.22	17451
722094.088	4294292.319	8565	07-Nov-13	11072013-003.SSF	397653.026	17452
722093.977	4294292.015	8523	07-Nov-13	11072013-003.SSF	397654.26	17453
722094.006	4294291.695	8821	07-Nov-13	11072013-003.SSF	397655.174	17454
722094.108	4294291.195	8989	07-Nov-13	11072013-003.SSF	397656.243	17455
722094.233	4294290.713	9091	07-Nov-13	11072013-003.SSF	397657.207	17456
722094.028	4294290.371	9074	07-Nov-13	11072013-003.SSF	397658.241	17457
722093.755	4294290.175	9191	07-Nov-13	11072013-003.SSF	397659.082	17458
722093.549	4294290.077	9340	07-Nov-13	11072013-003.SSF	397660.148	17459
722093.394	4294290.06	9476	07-Nov-13	11072013-003.SSF	397661.008	17460
722093.421	4294290.094	8983	07-Nov-13	11072013-003.SSF	397662.285	17461
722093.477	4294290.27	8998	07-Nov-13	11072013-003.SSF	397663.004	17462
722093.89	4294290.138	8668	07-Nov-13	11072013-003.SSF	397664.283	17463
722094.053	4294289.748	8948	07-Nov-13	11072013-003.SSF	397665.074	17464
722093.801	4294289.314	9068	07-Nov-13	11072013-003.SSF	397666.246	17465
722093.544	4294289.175	8836	07-Nov-13	11072013-003.SSF	397667.069	17466
722093.599	4294288.931	8847	07-Nov-13	11072013-003.SSF	397668.142	17467
722093.598	4294288.601	8509	07-Nov-13	11072013-003.SSF	397669.06	17468
722093.609	4294288.225	8191	07-Nov-13	11072013-003.SSF	397670.18	17469
722093.668	4294287.827	8402	07-Nov-13	11072013-003.SSF	397671.095	17470
722093.803	4294287.373	8049	07-Nov-13	11072013-003.SSF	397672.163	17471
722093.884	4294287.027	8652	07-Nov-13	11072013-003.SSF	397673.118	17472
722093.877	4294286.768	8137	07-Nov-13	11072013-003.SSF	397674.23	17473
722093.786	4294286.464	8499	07-Nov-13	11072013-003.SSF	397675.162	17474
722093.653	4294285.993	8373	07-Nov-13	11072013-003.SSF	397676.216	17475
722093.577	4294285.668	8692	07-Nov-13	11072013-003.SSF	397677.177	17476
722093.671	4294285.606	8677	07-Nov-13	11072013-003.SSF	397678.268	17477
722093.776	4294285.702	9036	07-Nov-13	11072013-003.SSF	397679.184	17478
722094.02	4294286.111	8607	07-Nov-13	11072013-003.SSF	397680.3	17479
722093.99	4294286.501	8839	07-Nov-13	11072013-003.SSF	397681.114	17480
722093.705	4294287.122	8789	07-Nov-13	11072013-003.SSF	397682.362	17481
722093.397	4294287.59	8544	07-Nov-13	11072013-003.SSF	397683.184	17482
722093.318	4294288.237	8316	07-Nov-13	11072013-003.SSF	397684.176	17483
722093.296	4294288.946	8907	07-Nov-13	11072013-003.SSF	397685.059	17484

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722093.54	4294290.509	8760	07-Nov-13	11072013-003.SSF	397687.106	17486
722093.763	4294290.94	8737	07-Nov-13	11072013-003.SSF	397688.257	17487
722093.974	4294291.239	9145	07-Nov-13	11072013-003.SSF	397689.091	17488
722094.132	4294291.98	8706	07-Nov-13	11072013-003.SSF	397690.151	17489
722094.107	4294292.725	8055	07-Nov-13	11072013-003.SSF	397691.094	17490
722094.286	4294293.412	8393	07-Nov-13	11072013-003.SSF	397692.145	17491
722094.465	4294294.053	8553	07-Nov-13	11072013-003.SSF	397693.009	17492
722094.914	4294294.627	8516	07-Nov-13	11072013-003.SSF	397694.238	17493
722095.605	4294294.569	8795	07-Nov-13	11072013-003.SSF	397695.262	17494
722095.824	4294294.096	9560	07-Nov-13	11072013-003.SSF	397696.257	17495
722095.474	4294293.704	9022	07-Nov-13	11072013-003.SSF	397697.077	17496
722095.049	4294292.895	8705	07-Nov-13	11072013-003.SSF	397698.123	17497
722094.798	4294292.261	8609	07-Nov-13	11072013-003.SSF	397699.071	17498
722094.794	4294291.535	8802	07-Nov-13	11072013-003.SSF	397700.164	17499
722094.732	4294291.041	9339	07-Nov-13	11072013-003.SSF	397701.086	17500
722094.595	4294290.426	9123	07-Nov-13	11072013-003.SSF	397702.138	17501
722094.358	4294289.851	8199	07-Nov-13	11072013-003.SSF	397703.14	17502
722094.372	4294289.007	8084	07-Nov-13	11072013-003.SSF	397704.238	17503
722094.326	4294288.558	8837	07-Nov-13	11072013-003.SSF	397705.086	17504
722094.529	4294288.044	8811	07-Nov-13	11072013-003.SSF	397706.145	17505
722094.655	4294287.335	8833	07-Nov-13	11072013-003.SSF	397707.076	17506
722094.926	4294286.389	8261	07-Nov-13	11072013-003.SSF	397708.153	17507
722095.126	4294285.535	8877	07-Nov-13	11072013-003.SSF	397709.128	17508
722095.206	4294284.846	9328	07-Nov-13	11072013-003.SSF	397710.075	17509
722095.166	4294284.462	9499	07-Nov-13	11072013-003.SSF	397711.024	17510
722095.229	4294284.468	9836	07-Nov-13	11072013-003.SSF	397712.081	17511
722095.352	4294284.473	9860	07-Nov-13	11072013-003.SSF	397713.061	17512
722095.334	4294284.543	9033	07-Nov-13	11072013-003.SSF	397714.246	17513
722095.28	4294284.623	9274	07-Nov-13	11072013-003.SSF	397715.107	17514
722095.188	4294284.689	8651	07-Nov-13	11072013-003.SSF	397716.273	17515
722095.122	4294284.721	9096	07-Nov-13	11072013-003.SSF	397717.08	17516
722095.028	4294284.784	9099	07-Nov-13	11072013-003.SSF	397718.222	17517
722094.715	4294284.715	8883	07-Nov-13	11072013-003.SSF	397719.126	17518
722094.465	4294284.124	8462	07-Nov-13	11072013-003.SSF	397720.281	17519
722094.31	4294283.749	8956	07-Nov-13	11072013-003.SSF	397721.089	17520
722094.166	4294283.616	8578	07-Nov-13	11072013-003.SSF	397722.154	17521
722094.129	4294283.745	9190	07-Nov-13	11072013-003.SSF	397723.043	17522
722094.125	4294283.918	9182	07-Nov-13	11072013-003.SSF	397724.29	17523
722094.133	4294283.954	9335	07-Nov-13	11072013-003.SSF	397725.098	17524
722094.198	4294283.941	9225	07-Nov-13	11072013-003.SSF	397726.236	17525
722094.453	4294283.958	8977	07-Nov-13	11072013-003.SSF	397727.156	17526
722094.667	4294283.988	8897	07-Nov-13	11072013-003.SSF	397728.332	17527
722094.702	4294283.899	8844	07-Nov-13	11072013-003.SSF	397729.104	17528
722095.107	4294283.263	8957	07-Nov-13	11072013-003.SSF	397730.277	17529
722095.019	4294283.217	9013	07-Nov-13	11072013-003.SSF	397731.092	17530
722094.522	4294283.665	8070	07-Nov-13	11072013-003.SSF	397732.178	17531

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722094.224	4294283.862	9360	07-Nov-13	11072013-003.SSF	397734.198	17533
722094.404	4294283.955	9045	07-Nov-13	11072013-003.SSF	397735.041	17534
722094.669	4294283.894	9123	07-Nov-13	11072013-003.SSF	397736.256	17535
722094.947	4294283.747	8896	07-Nov-13	11072013-003.SSF	397737.11	17536
722095.616	4294283.842	8693	07-Nov-13	11072013-003.SSF	397740.159	17537
722095.591	4294283.961	9040	07-Nov-13	11072013-003.SSF	397741.094	17538
722095.327	4294284.149	8585	07-Nov-13	11072013-003.SSF	397742.124	17539
722095.035	4294284.133	8692	07-Nov-13	11072013-003.SSF	397742.979	17540
722095.188	4294284.052	8864	07-Nov-13	11072013-003.SSF	397744.207	17541
722095.281	4294284.042	8271	07-Nov-13	11072013-003.SSF	397745.085	17542
722095.5	4294283.919	8770	07-Nov-13	11072013-003.SSF	397746.181	17543
722095.684	4294283.899	9223	07-Nov-13	11072013-003.SSF	397747.18	17544
722095.892	4294283.882	9425	07-Nov-13	11072013-003.SSF	397748.19	17545
722096.174	4294283.86	9442	07-Nov-13	11072013-003.SSF	397749.103	17546
722096.406	4294283.752	9331	07-Nov-13	11072013-003.SSF	397750.078	17547
722096.734	4294283.633	9426	07-Nov-13	11072013-003.SSF	397750.956	17548
722097.026	4294283.495	9172	07-Nov-13	11072013-003.SSF	397752.05	17549
722097.145	4294283.435	9637	07-Nov-13	11072013-003.SSF	397753.019	17550
722097.227	4294283.379	9080	07-Nov-13	11072013-003.SSF	397754.04	17551
722097.298	4294283.35	9682	07-Nov-13	11072013-003.SSF	397755.166	17552
722097.351	4294283.347	9151	07-Nov-13	11072013-003.SSF	397756.162	17553
722097.6	4294283.222	9220	07-Nov-13	11072013-003.SSF	397757.267	17554
722097.77	4294283.245	9348	07-Nov-13	11072013-003.SSF	397758.175	17555
722097.969	4294283.161	8821	07-Nov-13	11072013-003.SSF	397759.157	17556
722098.08	4294283.096	9042	07-Nov-13	11072013-003.SSF	397760.152	17557
722098.109	4294283.066	9248	07-Nov-13	11072013-003.SSF	397760.999	17558
722098.386	4294282.797	9289	07-Nov-13	11072013-003.SSF	397762.161	17559
722098.653	4294282.636	8945	07-Nov-13	11072013-003.SSF	397763.099	17560
722098.618	4294282.653	9059	07-Nov-13	11072013-003.SSF	397764.202	17561
722098.6	4294282.69	9213	07-Nov-13	11072013-003.SSF	397765.054	17562
722098.617	4294282.66	9180	07-Nov-13	11072013-003.SSF	397766.181	17563
722098.62	4294282.594	9423	07-Nov-13	11072013-003.SSF	397767.059	17564
722098.685	4294282.418	10078	07-Nov-13	11072013-003.SSF	397768.233	17565
722098.73	4294282.38	9186	07-Nov-13	11072013-003.SSF	397769.058	17566
722098.759	4294282.382	9097	07-Nov-13	11072013-003.SSF	397770.132	17567
722098.751	4294282.383	9032	07-Nov-13	11072013-003.SSF	397770.975	17568
722098.66	4294282.395	9370	07-Nov-13	11072013-003.SSF	397772.127	17569
722098.563	4294282.404	9133	07-Nov-13	11072013-003.SSF	397772.999	17570
722098.43	4294282.403	9517	07-Nov-13	11072013-003.SSF	397774.146	17571
722098.239	4294282.326	9595	07-Nov-13	11072013-003.SSF	397776.14	17573
722098.157	4294282.293	9800	07-Nov-13	11072013-003.SSF	397776.944	17574
722097.798	4294282.282	8902	07-Nov-13	11072013-003.SSF	397778.148	17575
722097.522	4294282.458	8972	07-Nov-13	11072013-003.SSF	397780.141	17577
722097.301	4294282.451	9284	07-Nov-13	11072013-003.SSF	397781.001	17578
722096.876	4294282.633	8642	07-Nov-13	11072013-003.SSF	397782.137	17579
722096.745	4294282.76	8881	07-Nov-13	11072013-003.SSF	397783.071	17580

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722096.827	4294282.89	9404	07-Nov-13	11072013-003.SSF	397784.944	17582
722096.964	4294282.792	9414	07-Nov-13	11072013-003.SSF	397786.171	17583
722096.608	4294282.87	9990	07-Nov-13	11072013-003.SSF	397787.057	17584
722096.13	4294282.663	9692	07-Nov-13	11072013-003.SSF	397788.057	17585
722095.891	4294282.652	9974	07-Nov-13	11072013-003.SSF	397789.076	17586
722095.543	4294282.601	9360	07-Nov-13	11072013-003.SSF	397790.168	17587
722095.387	4294282.829	8917	07-Nov-13	11072013-003.SSF	397791.083	17588
722095.699	4294283.283	8833	07-Nov-13	11072013-003.SSF	397792.249	17589
722095.81	4294283.974	9034	07-Nov-13	11072013-003.SSF	397793.142	17590
722096.022	4294285.143	9026	07-Nov-13	11072013-003.SSF	397794.129	17591
722096.497	4294286.223	9000	07-Nov-13	11072013-003.SSF	397795.094	17592
722096.778	4294287.027	8970	07-Nov-13	11072013-003.SSF	397796.175	17593
722096.588	4294287.801	9080	07-Nov-13	11072013-003.SSF	397797.072	17594
722096.607	4294288.363	9562	07-Nov-13	11072013-003.SSF	397798.241	17595
722096.686	4294288.758	8851	07-Nov-13	11072013-003.SSF	397799.064	17596
722096.614	4294289.648	8766	07-Nov-13	11072013-003.SSF	397800.103	17597
722096.792	4294290.489	8703	07-Nov-13	11072013-003.SSF	397801.025	17598
722097.264	4294291.267	9050	07-Nov-13	11072013-003.SSF	397802.093	17599
722097.242	4294292.05	8331	07-Nov-13	11072013-003.SSF	397803.128	17600
722097.143	4294292.874	8593	07-Nov-13	11072013-003.SSF	397804.142	17601
722097.218	4294293.594	8951	07-Nov-13	11072013-003.SSF	397805.082	17602
722096.865	4294294.081	8425	07-Nov-13	11072013-003.SSF	397806.182	17603
722095.859	4294294.186	7739	07-Nov-13	11072013-003.SSF	397807.056	17604
722094.336	4294294.563	7961	07-Nov-13	11072013-003.SSF	397808.162	17605
722093.567	4294295.352	8520	07-Nov-13	11072013-003.SSF	397809.121	17606
722093.116	4294296.551	8602	07-Nov-13	11072013-003.SSF	397810.196	17607
722092.657	4294297.534	8641	07-Nov-13	11072013-003.SSF	397811.126	17608
722091.927	4294298.583	8325	07-Nov-13	11072013-003.SSF	397812.168	17609
722091.169	4294299.637	7188	07-Nov-13	11072013-003.SSF	397813.092	17610
722090.443	4294300.522	6443	07-Nov-13	11072013-003.SSF	397814.144	17611
722090.115	4294301.13	5687	07-Nov-13	11072013-003.SSF	397815.042	17612
722090.011	4294301.437	5336	07-Nov-13	11072013-003.SSF	397816.076	17613
722090.24	4294301.383	4419	07-Nov-13	11072013-003.SSF	397817.055	17614
722090.436	4294301.348	4691	07-Nov-13	11072013-003.SSF	397818.334	17615
722090.4	4294301.346	4806	07-Nov-13	11072013-003.SSF	397819.097	17616
722090.457	4294301.35	4631	07-Nov-13	11072013-003.SSF	397820.15	17617
722090.532	4294301.263	4090	07-Nov-13	11072013-003.SSF	397821.102	17618
722091.084	4294300.863	3655	07-Nov-13	11072013-003.SSF	397826.084	17619
722091.221	4294300.725	3406	07-Nov-13	11072013-003.SSF	397827.042	17620
722091.021	4294300.823	3813	07-Nov-13	11072013-003.SSF	397828.107	17621
722090.759	4294301.142	4168	07-Nov-13	11072013-003.SSF	397830.113	17622
722090.703	4294302.327	4166	07-Nov-13	11072013-003.SSF	397840.953	17623
722090.784	4294302.364	4046	07-Nov-13	11072013-003.SSF	397842.039	17624
722090.907	4294302.432	4016	07-Nov-13	11072013-003.SSF	397843.088	17625
722091.004	4294302.476	4141	07-Nov-13	11072013-003.SSF	397844.047	17626
722091.005	4294302.475	3927	07-Nov-13	11072013-003.SSF	397845.03	17627

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722091.066	4294302.524	3868	07-Nov-13	11072013-003.SSF	397846.934	17629
722091.069	4294302.536	3766	07-Nov-13	11072013-003.SSF	397848.131	17630
722089.827	4294301.682	3910	07-Nov-13	11072013-003.SSF	398445.942	17631
722089.828	4294301.704	3744	07-Nov-13	11072013-003.SSF	398446.861	17632
722089.829	4294301.704	3411	07-Nov-13	11072013-003.SSF	398447.853	17633
722089.829	4294301.712	3726	07-Nov-13	11072013-003.SSF	398448.865	17634
722089.82	4294301.678	3933	07-Nov-13	11072013-003.SSF	398449.892	17635
722089.816	4294301.709	4192	07-Nov-13	11072013-003.SSF	398450.748	17636
722089.805	4294301.714	4188	07-Nov-13	11072013-003.SSF	398451.866	17637
722089.798	4294301.722	4276	07-Nov-13	11072013-003.SSF	398452.7581	17638
722089.772	4294301.688	4287	07-Nov-13	11072013-003.SSF	398453.866	17639
722089.772	4294301.849	4369	07-Nov-13	11072013-003.SSF	398454.7531	17640
722089.747	4294301.87	4445	07-Nov-13	11072013-003.SSF	398455.859	17641
722089.74	4294301.811	4255	07-Nov-13	11072013-003.SSF	398456.799	17642
722089.684	4294301.805	3938	07-Nov-13	11072013-003.SSF	398457.924	17643
722089.662	4294301.865	4195	07-Nov-13	11072013-003.SSF	398458.761	17644
722089.65	4294301.944	4092	07-Nov-13	11072013-003.SSF	398459.881	17645
722089.638	4294301.952	3712	07-Nov-13	11072013-003.SSF	398460.728	17646
722089.607	4294301.967	4090	07-Nov-13	11072013-003.SSF	398461.869	17647
722089.585	4294301.965	4183	07-Nov-13	11072013-003.SSF	398462.693	17648
722089.534	4294302.009	4280	07-Nov-13	11072013-003.SSF	398463.802	17649
722089.496	4294302.006	3915	07-Nov-13	11072013-003.SSF	398464.733	17650
722089.479	4294301.975	3687	07-Nov-13	11072013-003.SSF	398465.874	17651
722089.487	4294301.984	4069	07-Nov-13	11072013-003.SSF	398466.692	17652
722089.484	4294301.974	4036	07-Nov-13	11072013-003.SSF	398467.803	17653
722089.482	4294302.004	4107	07-Nov-13	11072013-003.SSF	398468.708	17654
722089.538	4294302.024	4338	07-Nov-13	11072013-003.SSF	398469.875	17655
722089.608	4294302.014	3985	07-Nov-13	11072013-003.SSF	398470.755	17656
722089.651	4294301.965	3832	07-Nov-13	11072013-003.SSF	398471.921	17657
722089.669	4294301.943	4053	07-Nov-13	11072013-003.SSF	398472.8149	17658
722089.683	4294301.93	3982	07-Nov-13	11072013-003.SSF	398473.832	17659
722089.806	4294301.862	3882	07-Nov-13	11072013-003.SSF	398474.738	17660
722089.801	4294301.606	4096	07-Nov-13	11072013-003.SSF	398475.8669	17661
722089.574	4294301.323	4344	07-Nov-13	11072013-003.SSF	398476.804	17662
722089.345	4294301.087	3913	07-Nov-13	11072013-003.SSF	398477.834	17663
722089.369	4294301.015	4451	07-Nov-13	11072013-003.SSF	398478.746	17664
722089.992	4294301.254	4119	07-Nov-13	11072013-003.SSF	398485.871	17665
722090.089	4294301.413	4170	07-Nov-13	11072013-003.SSF	398486.7679	17666
722090.318	4294301.599	4625	07-Nov-13	11072013-003.SSF	398487.834	17667
722090.336	4294301.57	4386	07-Nov-13	11072013-003.SSF	398488.7629	17668
722090.302	4294301.48	4117	07-Nov-13	11072013-003.SSF	398489.828	17669
722090.299	4294301.428	4243	07-Nov-13	11072013-003.SSF	398490.7061	17670
722090.272	4294301.435	4187	07-Nov-13	11072013-003.SSF	398491.8621	17671
722090.274	4294301.443	3907	07-Nov-13	11072013-003.SSF	398492.703	17672
722090.344	4294301.456	4065	07-Nov-13	11072013-003.SSF	398493.8149	17673
722090.374	4294301.453	4162	07-Nov-13	11072013-003.SSF	398494.764	17674

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722090.413	4294301.471	4490	07-Nov-13	11072013-003.SSF	398496.804	17676
722090.456	4294301.462	4723	07-Nov-13	11072013-003.SSF	398497.856	17677
722090.468	4294301.365	4352	07-Nov-13	11072013-003.SSF	398498.786	17678
722090.527	4294300.828	3755	07-Nov-13	11072013-003.SSF	398501.856	17679
722090.608	4294300.94	3822	07-Nov-13	11072013-003.SSF	398502.8361	17680
722090.504	4294301.181	3539	07-Nov-13	11072013-003.SSF	398504.797	17681
722090.608	4294301.222	3873	07-Nov-13	11072013-003.SSF	398505.866	17682
722090.69	4294301.314	4098	07-Nov-13	11072013-003.SSF	398506.7939	17683
722090.73	4294301.42	4510	07-Nov-13	11072013-003.SSF	398507.8719	17684
722090.68	4294301.165	4719	07-Nov-13	11072013-003.SSF	398508.8101	17685
722090.992	4294300.886	5302	07-Nov-13	11072013-003.SSF	398509.89	17686
722091.521	4294300.856	5967	07-Nov-13	11072013-003.SSF	398510.776	17687
722092.024	4294300.769	6004	07-Nov-13	11072013-003.SSF	398511.806	17688
722092.271	4294300.682	6332	07-Nov-13	11072013-003.SSF	398512.736	17689
722092.353	4294300.699	6442	07-Nov-13	11072013-003.SSF	398513.776	17690
722092.334	4294300.718	6946	07-Nov-13	11072013-003.SSF	398514.708	17691
722092.269	4294300.704	6922	07-Nov-13	11072013-003.SSF	398515.8459	17692
722092.225	4294300.722	6721	07-Nov-13	11072013-003.SSF	398516.8051	17693
722092.189	4294300.707	6596	07-Nov-13	11072013-003.SSF	398517.8361	17694
722092.162	4294300.691	6658	07-Nov-13	11072013-003.SSF	398518.759	17695
722092.133	4294300.695	6993	07-Nov-13	11072013-003.SSF	398519.791	17696
722092.1	4294300.707	6828	07-Nov-13	11072013-003.SSF	398520.782	17697
722092.336	4294300.764	6968	07-Nov-13	11072013-003.SSF	398521.989	17698
722092.503	4294300.516	7077	07-Nov-13	11072013-003.SSF	398522.793	17699
722092.586	4294299.939	8016	07-Nov-13	11072013-003.SSF	398523.785	17700
722092.715	4294299.312	7929	07-Nov-13	11072013-003.SSF	398524.788	17701
722092.76	4294298.888	8300	07-Nov-13	11072013-003.SSF	398525.7679	17702
722092.774	4294298.797	8448	07-Nov-13	11072013-003.SSF	398526.713	17703
722092.798	4294298.852	8480	07-Nov-13	11072013-003.SSF	398527.781	17704
722092.819	4294298.884	8895	07-Nov-13	11072013-003.SSF	398528.7061	17705
722092.851	4294298.914	8273	07-Nov-13	11072013-003.SSF	398529.776	17706
722092.882	4294298.929	8373	07-Nov-13	11072013-003.SSF	398530.809	17707
722092.914	4294298.953	8280	07-Nov-13	11072013-003.SSF	398531.983	17708
722092.922	4294298.949	8227	07-Nov-13	11072013-003.SSF	398532.772	17709
722092.953	4294298.967	8348	07-Nov-13	11072013-003.SSF	398533.859	17710
722092.964	4294298.975	8670	07-Nov-13	11072013-003.SSF	398534.803	17711
722092.978	4294298.987	8477	07-Nov-13	11072013-003.SSF	398535.856	17712
722092.992	4294298.994	8308	07-Nov-13	11072013-003.SSF	398536.807	17713
722093.003	4294299.003	7951	07-Nov-13	11072013-003.SSF	398537.84	17714
722093.003	4294299.001	8462	07-Nov-13	11072013-003.SSF	398538.759	17715
722093.015	4294299.015	8157	07-Nov-13	11072013-003.SSF	398539.874	17716
722093.013	4294299.012	7873	07-Nov-13	11072013-003.SSF	398540.7061	17717
722093.126	4294299.178	8111	07-Nov-13	11072013-003.SSF	398541.844	17718
722093.261	4294299.307	8312	07-Nov-13	11072013-003.SSF	398542.703	17719
722093.293	4294299.281	8373	07-Nov-13	11072013-003.SSF	398543.816	17720
722093.314	4294299.269	8160	07-Nov-13	11072013-003.SSF	398544.748	17721

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722093.295	4294299.247	8517	07-Nov-13	11072013-003.SSF	398546.6591	17723
722093.243	4294299.239	8023	07-Nov-13	11072013-003.SSF	398547.798	17724
722093.161	4294299.145	7925	07-Nov-13	11072013-003.SSF	398548.723	17725
722093.085	4294298.952	8238	07-Nov-13	11072013-003.SSF	398549.751	17726
722093.334	4294298.851	8279	07-Nov-13	11072013-003.SSF	398550.764	17727
722093.546	4294298.649	8504	07-Nov-13	11072013-003.SSF	398551.886	17728
722093.723	4294298.391	8136	07-Nov-13	11072013-003.SSF	398552.808	17729
722094.007	4294298.078	8529	07-Nov-13	11072013-003.SSF	398553.85	17730
722094.176	4294297.931	8270	07-Nov-13	11072013-003.SSF	398554.7629	17731
722094.319	4294297.859	8544	07-Nov-13	11072013-003.SSF	398555.8409	17732
722094.31	4294297.755	8406	07-Nov-13	11072013-003.SSF	398556.7531	17733
722094.341	4294297.65	8291	07-Nov-13	11072013-003.SSF	398557.77	17734
722094.352	4294297.618	8218	07-Nov-13	11072013-003.SSF	398558.679	17735
722094.464	4294297.619	7870	07-Nov-13	11072013-003.SSF	398559.79	17736
722094.574	4294297.515	8147	07-Nov-13	11072013-003.SSF	398560.739	17737
722094.52	4294297.321	8655	07-Nov-13	11072013-003.SSF	398561.874	17738
722094.716	4294297.499	8693	07-Nov-13	11072013-003.SSF	398562.793	17739
722095.01	4294297.68	8415	07-Nov-13	11072013-003.SSF	398563.8669	17740
722095.152	4294297.7	8543	07-Nov-13	11072013-003.SSF	398564.792	17741
722095.166	4294297.729	8668	07-Nov-13	11072013-003.SSF	398565.864	17742
722095.09	4294297.74	9121	07-Nov-13	11072013-003.SSF	398566.8051	17743
722095.059	4294297.773	8775	07-Nov-13	11072013-003.SSF	398567.811	17744
722095.005	4294297.744	9136	07-Nov-13	11072013-003.SSF	398568.726	17745
722095.045	4294297.728	9526	07-Nov-13	11072013-003.SSF	398569.8459	17746
722095.079	4294297.744	8801	07-Nov-13	11072013-003.SSF	398570.765	17747
722095.026	4294297.764	9225	07-Nov-13	11072013-003.SSF	398571.882	17748
722094.998	4294297.789	9127	07-Nov-13	11072013-003.SSF	398572.788	17749
722094.968	4294297.808	8808	07-Nov-13	11072013-003.SSF	398573.892	17750
722094.942	4294297.803	8982	07-Nov-13	11072013-003.SSF	398574.791	17751
722094.927	4294297.815	9440	07-Nov-13	11072013-003.SSF	398575.754	17752
722094.922	4294297.824	9825	07-Nov-13	11072013-003.SSF	398576.6591	17753
722094.945	4294297.837	9044	07-Nov-13	11072013-003.SSF	398577.7679	17754
722094.943	4294297.836	9572	07-Nov-13	11072013-003.SSF	398578.6591	17755
722094.927	4294297.838	9059	07-Nov-13	11072013-003.SSF	398579.77	17756
722094.911	4294297.834	9131	07-Nov-13	11072013-003.SSF	398580.725	17757
722094.902	4294297.846	9141	07-Nov-13	11072013-003.SSF	398581.824	17758
722094.867	4294297.844	9056	07-Nov-13	11072013-003.SSF	398582.752	17759
722094.866	4294297.867	9324	07-Nov-13	11072013-003.SSF	398583.87	17760
722094.845	4294297.859	9452	07-Nov-13	11072013-003.SSF	398584.77	17761
722094.838	4294297.87	8902	07-Nov-13	11072013-003.SSF	398585.901	17762
722094.825	4294297.858	9020	07-Nov-13	11072013-003.SSF	398586.761	17763
722094.787	4294297.883	8681	07-Nov-13	11072013-003.SSF	398587.78	17764
722094.739	4294297.906	9293	07-Nov-13	11072013-003.SSF	398588.703	17765
722094.711	4294297.908	9202	07-Nov-13	11072013-003.SSF	398589.821	17766
722094.73	4294297.913	8911	07-Nov-13	11072013-003.SSF	398590.734	17767
722094.751	4294297.909	9085	07-Nov-13	11072013-003.SSF	398591.7729	17768

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722094.732	4294297.93	9004	07-Nov-13	11072013-003.SSF	398593.77	17770
722094.737	4294297.947	9272	07-Nov-13	11072013-003.SSF	398594.724	17771
722094.773	4294297.953	9926	07-Nov-13	11072013-003.SSF	398595.824	17772
722094.805	4294297.931	9431	07-Nov-13	11072013-003.SSF	398596.723	17773
722094.834	4294297.898	9295	07-Nov-13	11072013-003.SSF	398597.828	17774
722094.839	4294297.866	8963	07-Nov-13	11072013-003.SSF	398598.7271	17775
722094.829	4294297.849	9122	07-Nov-13	11072013-003.SSF	398599.817	17776
722094.807	4294297.852	8731	07-Nov-13	11072013-003.SSF	398600.73	17777
722094.756	4294297.865	8736	07-Nov-13	11072013-003.SSF	398601.826	17778
722094.747	4294297.882	8769	07-Nov-13	11072013-003.SSF	398602.755	17779
722094.793	4294297.898	8502	07-Nov-13	11072013-003.SSF	398603.767	17780
722094.861	4294297.894	8765	07-Nov-13	11072013-003.SSF	398604.714	17781
722094.901	4294297.864	8643	07-Nov-13	11072013-003.SSF	398605.873	17782
722094.909	4294297.849	9084	07-Nov-13	11072013-003.SSF	398606.792	17783
722094.918	4294297.826	8837	07-Nov-13	11072013-003.SSF	398607.828	17784
722094.914	4294297.83	8841	07-Nov-13	11072013-003.SSF	398608.7271	17785
722094.899	4294297.849	8423	07-Nov-13	11072013-003.SSF	398609.8409	17786
722094.877	4294297.858	8668	07-Nov-13	11072013-003.SSF	398610.752	17787
722094.86	4294297.874	9683	07-Nov-13	11072013-003.SSF	398611.783	17788
722094.863	4294297.881	9301	07-Nov-13	11072013-003.SSF	398612.713	17789
722094.866	4294297.861	9237	07-Nov-13	11072013-003.SSF	398613.819	17790
722094.854	4294297.856	9441	07-Nov-13	11072013-003.SSF	398614.717	17791
722094.833	4294297.846	9390	07-Nov-13	11072013-003.SSF	398615.8361	17792
722094.833	4294297.834	9152	07-Nov-13	11072013-003.SSF	398616.743	17793
722094.853	4294297.819	9438	07-Nov-13	11072013-003.SSF	398617.863	17794
722094.862	4294297.812	9021	07-Nov-13	11072013-003.SSF	398618.689	17795
722094.893	4294297.852	9342	07-Nov-13	11072013-003.SSF	398619.804	17796
722094.828	4294297.865	8944	07-Nov-13	11072013-003.SSF	398620.7371	17797
722094.708	4294297.814	8481	07-Nov-13	11072013-003.SSF	398621.855	17798
722094.696	4294297.781	7613	07-Nov-13	11072013-003.SSF	398622.756	17799
722094.71	4294297.727	8250	07-Nov-13	11072013-003.SSF	398623.786	17800
722094.944	4294297.667	8510	07-Nov-13	11072013-003.SSF	398624.701	17801
722095.221	4294297.619	8297	07-Nov-13	11072013-003.SSF	398625.863	17802
722095.207	4294297.618	8319	07-Nov-13	11072013-003.SSF	398626.767	17803
722095.128	4294297.621	9015	07-Nov-13	11072013-003.SSF	398627.863	17804
722095.068	4294297.627	8325	07-Nov-13	11072013-003.SSF	398628.694	17805
722094.988	4294297.652	8680	07-Nov-13	11072013-003.SSF	398629.799	17806
722094.946	4294297.673	8040	07-Nov-13	11072013-003.SSF	398630.677	17807
722094.921	4294297.665	8902	07-Nov-13	11072013-003.SSF	398631.812	17808
722094.915	4294297.672	8900	07-Nov-13	11072013-003.SSF	398632.709	17809
722094.886	4294297.683	8396	07-Nov-13	11072013-003.SSF	398633.786	17810
722094.857	4294297.699	8420	07-Nov-13	11072013-003.SSF	398634.687	17811
722094.82	4294297.699	8036	07-Nov-13	11072013-003.SSF	398635.85	17812
722094.815	4294297.699	8570	07-Nov-13	11072013-003.SSF	398636.767	17813
722094.828	4294297.691	8683	07-Nov-13	11072013-003.SSF	398637.8571	17814
722094.834	4294297.678	9114	07-Nov-13	11072013-003.SSF	398638.767	17815

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722094.817	4294297.639	8852	07-Nov-13	11072013-003.SSF	398640.625	17817
722094.852	4294297.633	9112	07-Nov-13	11072013-003.SSF	398641.7271	17818
722094.884	4294297.644	9130	07-Nov-13	11072013-003.SSF	398642.63	17819
722094.866	4294297.648	9013	07-Nov-13	11072013-003.SSF	398643.734	17820
722094.839	4294297.658	8767	07-Nov-13	11072013-003.SSF	398644.646	17821
722094.822	4294297.677	8914	07-Nov-13	11072013-003.SSF	398645.838	17822
722094.821	4294297.683	9146	07-Nov-13	11072013-003.SSF	398646.739	17823
722094.817	4294297.677	8805	07-Nov-13	11072013-003.SSF	398647.842	17824
722094.812	4294297.65	8905	07-Nov-13	11072013-003.SSF	398648.7469	17825
722094.814	4294297.633	8789	07-Nov-13	11072013-003.SSF	398649.842	17826
722094.826	4294297.636	8814	07-Nov-13	11072013-003.SSF	398650.7209	17827
722094.84	4294297.659	9120	07-Nov-13	11072013-003.SSF	398651.855	17828
722094.845	4294297.679	9397	07-Nov-13	11072013-003.SSF	398652.689	17829
722094.84	4294297.691	9043	07-Nov-13	11072013-003.SSF	398653.802	17830
722094.819	4294297.694	8874	07-Nov-13	11072013-003.SSF	398654.7111	17831
722094.799	4294297.713	8532	07-Nov-13	11072013-003.SSF	398655.851	17832
722094.828	4294297.721	8616	07-Nov-13	11072013-003.SSF	398656.709	17833
722094.867	4294297.721	8297	07-Nov-13	11072013-003.SSF	398657.86	17834
722094.858	4294297.764	7997	07-Nov-13	11072013-003.SSF	398658.748	17835
722094.792	4294297.817	8263	07-Nov-13	11072013-003.SSF	398659.84	17836
722094.763	4294297.813	8428	07-Nov-13	11072013-003.SSF	398660.7321	17837
722094.787	4294297.822	8085	07-Nov-13	11072013-003.SSF	398661.832	17838
722094.774	4294297.852	8441	07-Nov-13	11072013-003.SSF	398662.7321	17839
722094.74	4294297.87	8595	07-Nov-13	11072013-003.SSF	398663.845	17840
722094.696	4294297.832	7992	07-Nov-13	11072013-003.SSF	398664.749	17841
722094.681	4294297.799	8088	07-Nov-13	11072013-003.SSF	398665.748	17842
722094.738	4294297.814	8014	07-Nov-13	11072013-003.SSF	398666.683	17843
722094.763	4294297.864	7860	07-Nov-13	11072013-003.SSF	398667.812	17844
722094.734	4294297.87	8606	07-Nov-13	11072013-003.SSF	398668.729	17845
722094.762	4294297.853	8936	07-Nov-13	11072013-003.SSF	398669.823	17846
722094.805	4294297.836	8619	07-Nov-13	11072013-003.SSF	398670.725	17847
722094.821	4294297.808	8815	07-Nov-13	11072013-003.SSF	398671.814	17848
722094.836	4294297.81	8806	07-Nov-13	11072013-003.SSF	398672.702	17849
722094.843	4294297.806	8973	07-Nov-13	11072013-003.SSF	398673.774	17850
722094.828	4294297.777	8520	07-Nov-13	11072013-003.SSF	398674.769	17851
722094.806	4294297.743	8752	07-Nov-13	11072013-003.SSF	398675.733	17852
722094.816	4294297.765	8201	07-Nov-13	11072013-003.SSF	398676.734	17853
722094.811	4294297.763	8303	07-Nov-13	11072013-003.SSF	398677.821	17854
722094.85	4294297.778	8428	07-Nov-13	11072013-003.SSF	398678.709	17855
722094.892	4294297.77	8490	07-Nov-13	11072013-003.SSF	398679.811	17856
722094.886	4294297.763	8578	07-Nov-13	11072013-003.SSF	398680.74	17857
722094.862	4294297.751	8635	07-Nov-13	11072013-003.SSF	398681.8521	17858
722094.871	4294297.728	8637	07-Nov-13	11072013-003.SSF	398682.748	17859
722094.881	4294297.711	9298	07-Nov-13	11072013-003.SSF	398683.757	17860
722094.879	4294297.716	9648	07-Nov-13	11072013-003.SSF	398684.75	17861
722094.878	4294297.729	8831	07-Nov-13	11072013-003.SSF	398685.823	17862

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722094.875	4294297.742	9177	07-Nov-13	11072013-003.SSF	398687.825	17864
722094.898	4294297.764	9377	07-Nov-13	11072013-003.SSF	398688.724	17865
722094.908	4294297.773	9017	07-Nov-13	11072013-003.SSF	398689.827	17866
722094.905	4294297.777	8717	07-Nov-13	11072013-003.SSF	398690.739	17867
722094.887	4294297.764	8166	07-Nov-13	11072013-003.SSF	398691.7629	17868
722094.875	4294297.775	8148	07-Nov-13	11072013-003.SSF	398692.667	17869
722094.845	4294297.769	7913	07-Nov-13	11072013-003.SSF	398693.769	17870
722094.853	4294297.817	8276	07-Nov-13	11072013-003.SSF	398694.769	17871
722094.847	4294297.855	8893	07-Nov-13	11072013-003.SSF	398695.73	17872
722095.021	4294297.876	8677	07-Nov-13	11072013-003.SSF	398696.641	17873
722095.291	4294297.786	8706	07-Nov-13	11072013-003.SSF	398697.7679	17874
722095.333	4294297.73	8519	07-Nov-13	11072013-003.SSF	398698.653	17875
722095.245	4294297.69	8692	07-Nov-13	11072013-003.SSF	398699.72	17876
722095.181	4294297.674	8579	07-Nov-13	11072013-003.SSF	398700.65	17877
722095.143	4294297.678	8958	07-Nov-13	11072013-003.SSF	398701.761	17878
722095.115	4294297.672	9006	07-Nov-13	11072013-003.SSF	398702.64	17879
722095.103	4294297.682	8658	07-Nov-13	11072013-003.SSF	398703.774	17880
722095.084	4294297.705	9093	07-Nov-13	11072013-003.SSF	398704.707	17881
722095.044	4294297.704	8872	07-Nov-13	11072013-003.SSF	398705.738	17882
722095.001	4294297.662	8785	07-Nov-13	11072013-003.SSF	398706.652	17883
722094.979	4294297.655	8737	07-Nov-13	11072013-003.SSF	398707.7679	17884
722094.94	4294297.675	9219	07-Nov-13	11072013-003.SSF	398708.688	17885
722094.869	4294297.672	9131	07-Nov-13	11072013-003.SSF	398709.807	17886
722094.874	4294297.699	9111	07-Nov-13	11072013-003.SSF	398710.658	17887
722094.877	4294297.708	8800	07-Nov-13	11072013-003.SSF	398711.681	17888
722094.87	4294297.715	8910	07-Nov-13	11072013-003.SSF	398712.584	17889
722094.856	4294297.75	9512	07-Nov-13	11072013-003.SSF	398713.691	17890
722094.833	4294297.769	9723	07-Nov-13	11072013-003.SSF	398714.587	17891
722094.823	4294297.764	9204	07-Nov-13	11072013-003.SSF	398715.738	17892
722094.832	4294297.759	8282	07-Nov-13	11072013-003.SSF	398716.658	17893
722094.817	4294297.779	8993	07-Nov-13	11072013-003.SSF	398717.807	17894
722094.806	4294297.812	8538	07-Nov-13	11072013-003.SSF	398718.7159	17895
722094.814	4294297.83	8950	07-Nov-13	11072013-003.SSF	398719.808	17896
722094.849	4294297.855	9219	07-Nov-13	11072013-003.SSF	398720.641	17897
722094.888	4294297.859	8906	07-Nov-13	11072013-003.SSF	398721.73	17898
722094.9	4294297.836	8917	07-Nov-13	11072013-003.SSF	398722.621	17899
722094.869	4294297.82	9096	07-Nov-13	11072013-003.SSF	398723.714	17900
722094.956	4294297.873	8499	07-Nov-13	11072013-003.SSF	398724.6219	17901
722095.247	4294298.019	8485	07-Nov-13	11072013-003.SSF	398725.731	17902
722095.321	4294298.102	8613	07-Nov-13	11072013-003.SSF	398726.663	17903
722094.958	4294297.987	8535	07-Nov-13	11072013-003.SSF	398727.693	17904
722094.456	4294297.658	8460	07-Nov-13	11072013-003.SSF	398728.6219	17905
722093.976	4294297.346	8456	07-Nov-13	11072013-003.SSF	398729.75	17906
722093.742	4294297.333	8424	07-Nov-13	11072013-003.SSF	398730.73	17907
722093.693	4294297.43	8691	07-Nov-13	11072013-003.SSF	398731.749	17908
722093.712	4294297.488	9104	07-Nov-13	11072013-003.SSF	398732.65	17909

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722093.655	4294297.537	8195	07-Nov-13	11072013-003.SSF	398734.713	17911
722093.677	4294297.549	9034	07-Nov-13	11072013-003.SSF	398735.766	17912
722093.67	4294297.544	8644	07-Nov-13	11072013-003.SSF	398736.6331	17913
722093.673	4294297.571	9175	07-Nov-13	11072013-003.SSF	398737.739	17914
722093.687	4294297.582	8821	07-Nov-13	11072013-003.SSF	398738.604	17915
722093.677	4294297.62	8629	07-Nov-13	11072013-003.SSF	398739.702	17916
722093.638	4294297.668	8604	07-Nov-13	11072013-003.SSF	398740.624	17917
722093.658	4294297.715	8717	07-Nov-13	11072013-003.SSF	398741.741	17918
722093.696	4294297.751	8833	07-Nov-13	11072013-003.SSF	398742.637	17919
722093.695	4294297.785	8861	07-Nov-13	11072013-003.SSF	398743.741	17920
722093.659	4294297.776	8599	07-Nov-13	11072013-003.SSF	398744.649	17921
722093.616	4294297.792	8429	07-Nov-13	11072013-003.SSF	398745.734	17922
722093.588	4294297.833	8364	07-Nov-13	11072013-003.SSF	398746.6591	17923
722093.59	4294297.861	8432	07-Nov-13	11072013-003.SSF	398747.674	17924
722093.587	4294297.851	8703	07-Nov-13	11072013-003.SSF	398748.589	17925
722093.575	4294297.817	8683	07-Nov-13	11072013-003.SSF	398749.704	17926
722093.6	4294297.789	8514	07-Nov-13	11072013-003.SSF	398750.637	17927
722093.621	4294297.765	8966	07-Nov-13	11072013-003.SSF	398751.748	17928
722093.623	4294297.774	8561	07-Nov-13	11072013-003.SSF	398752.66	17929
722093.618	4294297.792	8400	07-Nov-13	11072013-003.SSF	398753.666	17930
722093.609	4294297.808	8790	07-Nov-13	11072013-003.SSF	398754.675	17931
722093.596	4294297.814	9324	07-Nov-13	11072013-003.SSF	398755.761	17932
722093.535	4294297.813	9123	07-Nov-13	11072013-003.SSF	398756.597	17933
722093.263	4294297.909	8519	07-Nov-13	11072013-003.SSF	398757.739	17934
722093.024	4294297.93	9060	07-Nov-13	11072013-003.SSF	398758.611	17935
722092.913	4294297.837	8973	07-Nov-13	11072013-003.SSF	398759.736	17936
722092.99	4294297.767	8272	07-Nov-13	11072013-003.SSF	398760.6379	17937
722093.161	4294297.822	8576	07-Nov-13	11072013-003.SSF	398761.702	17938
722093.148	4294297.88	8866	07-Nov-13	11072013-003.SSF	398762.615	17939
722092.953	4294297.872	9352	07-Nov-13	11072013-003.SSF	398763.698	17940
722093.162	4294297.709	8755	07-Nov-13	11072013-003.SSF	398764.687	17941
722093.73	4294297.001	8285	07-Nov-13	11072013-003.SSF	398765.7321	17942
722094.075	4294295.873	8530	07-Nov-13	11072013-003.SSF	398766.6379	17943
722094.194	4294294.528	8938	07-Nov-13	11072013-003.SSF	398767.743	17944
722094.144	4294293.528	9145	07-Nov-13	11072013-003.SSF	398768.649	17945
722094.298	4294292.242	8834	07-Nov-13	11072013-003.SSF	398769.75	17946
722094.472	4294291.3	8921	07-Nov-13	11072013-003.SSF	398770.656	17947
722094.386	4294290.427	8641	07-Nov-13	11072013-003.SSF	398771.682	17948
722094.278	4294289.63	8505	07-Nov-13	11072013-003.SSF	398772.673	17949
722094.389	4294288.907	8482	07-Nov-13	11072013-003.SSF	398773.686	17950
722094.486	4294288.249	8491	07-Nov-13	11072013-003.SSF	398774.672	17951
722094.514	4294287.44	9651	07-Nov-13	11072013-003.SSF	398775.715	17952
722094.609	4294286.801	9216	07-Nov-13	11072013-003.SSF	398776.658	17953
722094.755	4294286.247	9586	07-Nov-13	11072013-003.SSF	398777.766	17954
722094.977	4294285.809	9352	07-Nov-13	11072013-003.SSF	398778.689	17955
722095.264	4294285.271	9505	07-Nov-13	11072013-003.SSF	398779.705	17956

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722095.942	4294284.337	9427	07-Nov-13	11072013-003.SSF	398781.715	17958
722096.365	4294284.113	9127	07-Nov-13	11072013-003.SSF	398782.637	17959
722096.857	4294283.811	9056	07-Nov-13	11072013-003.SSF	398783.744	17960
722097.189	4294283.448	8852	07-Nov-13	11072013-003.SSF	398784.645	17961
722097.391	4294283.008	9352	07-Nov-13	11072013-003.SSF	398785.726	17962
722097.546	4294282.787	8868	07-Nov-13	11072013-003.SSF	398786.641	17963
722097.72	4294282.563	9360	07-Nov-13	11072013-003.SSF	398787.7209	17964
722097.535	4294282.485	9292	07-Nov-13	11072013-003.SSF	398788.6281	17965
722097.295	4294282.675	9082	07-Nov-13	11072013-003.SSF	398789.728	17966
722097.23	4294283.005	8641	07-Nov-13	11072013-003.SSF	398790.629	17967
722097.359	4294283.457	8970	07-Nov-13	11072013-003.SSF	398791.692	17968
722097.323	4294283.841	8391	07-Nov-13	11072013-003.SSF	398792.67	17969
722097.27	4294284.194	8500	07-Nov-13	11072013-003.SSF	398793.7209	17970
722097.282	4294284.412	8403	07-Nov-13	11072013-003.SSF	398794.6639	17971
722097.156	4294284.556	8874	07-Nov-13	11072013-003.SSF	398795.749	17972
722097.072	4294284.652	8869	07-Nov-13	11072013-003.SSF	398796.6219	17973
722096.989	4294284.636	8506	07-Nov-13	11072013-003.SSF	398797.709	17974
722096.672	4294284.612	9277	07-Nov-13	11072013-003.SSF	398798.5959	17975
722095.985	4294284.572	9561	07-Nov-13	11072013-003.SSF	398799.71	17976
722095.435	4294284.573	9548	07-Nov-13	11072013-003.SSF	398800.626	17977
722094.926	4294284.616	9015	07-Nov-13	11072013-003.SSF	398801.707	17978
722094.655	4294284.604	9683	07-Nov-13	11072013-003.SSF	398802.609	17979
722094.668	4294284.528	9939	07-Nov-13	11072013-003.SSF	398803.729	17980
722094.673	4294284.267	9536	07-Nov-13	11072013-003.SSF	398804.6479	17981
722094.617	4294283.791	8949	07-Nov-13	11072013-003.SSF	398805.729	17982
722094.625	4294283.476	8731	07-Nov-13	11072013-003.SSF	398806.616	17983
722094.535	4294283.229	8939	07-Nov-13	11072013-003.SSF	398807.708	17984
722094.526	4294283.087	8695	07-Nov-13	11072013-003.SSF	398808.608	17985
722094.547	4294282.764	8851	07-Nov-13	11072013-003.SSF	398809.7111	17986
722094.697	4294282.446	8616	07-Nov-13	11072013-003.SSF	398810.6689	17987
722094.916	4294282.195	9241	07-Nov-13	11072013-003.SSF	398811.677	17988
722095.214	4294281.967	9060	07-Nov-13	11072013-003.SSF	398812.675	17989
722095.245	4294281.499	8891	07-Nov-13	11072013-003.SSF	398813.7159	17990
722095.097	4294281.082	9096	07-Nov-13	11072013-003.SSF	398814.59	17991
722095.295	4294280.856	9459	07-Nov-13	11072013-003.SSF	398815.726	17992
722095.596	4294280.708	9333	07-Nov-13	11072013-003.SSF	398816.7	17993
722095.83	4294280.526	8782	07-Nov-13	11072013-003.SSF	398817.743	17994
722096.088	4294280.482	9057	07-Nov-13	11072013-003.SSF	398818.6429	17995
722096.297	4294280.458	8905	07-Nov-13	11072013-003.SSF	398819.741	17996
722096.341	4294280.374	9066	07-Nov-13	11072013-003.SSF	398820.63	17997
722096.4	4294280.264	9405	07-Nov-13	11072013-003.SSF	398821.7679	17998
722096.407	4294280.201	9775	07-Nov-13	11072013-003.SSF	398822.65	17999
722096.318	4294280.092	9511	07-Nov-13	11072013-003.SSF	398823.7419	18000
722096.476	4294280.052	10075	07-Nov-13	11072013-003.SSF	398824.625	18001
722096.666	4294280.049	10324	07-Nov-13	11072013-003.SSF	398825.658	18002
722096.678	4294280.244	9550	07-Nov-13	11072013-003.SSF	398826.572	18003

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722095.967	4294280.984	8803	07-Nov-13	11072013-003.SSF	398828.661	18005
722095.841	4294281.132	9197	07-Nov-13	11072013-003.SSF	398829.6801	18006
722095.737	4294281.447	8720	07-Nov-13	11072013-003.SSF	398830.64	18007
722095.564	4294281.934	8460	07-Nov-13	11072013-003.SSF	398831.691	18008
722095.48	4294282.486	8899	07-Nov-13	11072013-003.SSF	398832.692	18009
722095.459	4294283.026	9400	07-Nov-13	11072013-003.SSF	398833.707	18010
722095.509	4294283.51	9915	07-Nov-13	11072013-003.SSF	398834.619	18011
722095.424	4294284.083	9207	07-Nov-13	11072013-003.SSF	398835.725	18012
722095.252	4294284.541	8951	07-Nov-13	11072013-003.SSF	398836.63	18013
722094.928	4294285.146	9272	07-Nov-13	11072013-003.SSF	398837.765	18014
722094.813	4294285.617	9063	07-Nov-13	11072013-003.SSF	398838.703	18015
722094.932	4294286.178	8908	07-Nov-13	11072013-003.SSF	398839.7159	18016
722095.175	4294286.233	8828	07-Nov-13	11072013-003.SSF	398840.551	18017
722095.713	4294285.514	8221	07-Nov-13	11072013-003.SSF	398841.646	18018
722096.007	4294284.693	8816	07-Nov-13	11072013-003.SSF	398842.6071	18019
722096.118	4294284.033	8267	07-Nov-13	11072013-003.SSF	398843.625	18020
722096.177	4294283.573	8542	07-Nov-13	11072013-003.SSF	398844.564	18021
722096.229	4294283.149	8442	07-Nov-13	11072013-003.SSF	398845.734	18022
722096.37	4294282.818	9279	07-Nov-13	11072013-003.SSF	398846.671	18023
722096.575	4294282.539	9344	07-Nov-13	11072013-003.SSF	398847.741	18024
722096.702	4294282.355	9051	07-Nov-13	11072013-003.SSF	398848.672	18025
722096.843	4294282.177	9614	07-Nov-13	11072013-003.SSF	398849.674	18026
722096.903	4294281.902	9435	07-Nov-13	11072013-003.SSF	398850.576	18027
722096.866	4294281.413	9874	07-Nov-13	11072013-003.SSF	398851.678	18028
722096.775	4294281.217	9807	07-Nov-13	11072013-003.SSF	398852.625	18029
722096.846	4294281.061	10061	07-Nov-13	11072013-003.SSF	398853.71	18030
722096.987	4294280.838	9792	07-Nov-13	11072013-003.SSF	398854.6379	18031
722097.169	4294280.442	9400	07-Nov-13	11072013-003.SSF	398855.765	18032
722097.28	4294280.153	9637	07-Nov-13	11072013-003.SSF	398856.678	18033
722097.316	4294280.01	9478	07-Nov-13	11072013-003.SSF	398857.694	18034
722097.272	4294279.986	9697	07-Nov-13	11072013-003.SSF	398858.667	18035
722097.135	4294279.931	9129	07-Nov-13	11072013-003.SSF	398859.682	18036
722097.002	4294279.861	8697	07-Nov-13	11072013-003.SSF	398860.63	18037
722097.027	4294279.953	8912	07-Nov-13	11072013-003.SSF	398861.662	18038
722097.056	4294280.212	9296	07-Nov-13	11072013-003.SSF	398862.615	18039
722097.178	4294280.592	10231	07-Nov-13	11072013-003.SSF	398863.614	18040
722097.262	4294280.933	9460	07-Nov-13	11072013-003.SSF	398864.5439	18041
722097.213	4294281.252	9326	07-Nov-13	11072013-003.SSF	398865.719	18042
722097.119	4294281.486	9071	07-Nov-13	11072013-003.SSF	398866.606	18043
722097.129	4294281.814	9025	07-Nov-13	11072013-003.SSF	398867.684	18044
722097.115	4294282.177	8609	07-Nov-13	11072013-003.SSF	398868.6429	18045
722096.995	4294282.48	8517	07-Nov-13	11072013-003.SSF	398869.749	18046
722096.959	4294282.762	8518	07-Nov-13	11072013-003.SSF	398870.621	18047
722096.995	4294283.136	8579	07-Nov-13	11072013-003.SSF	398871.731	18048
722096.967	4294283.476	8201	07-Nov-13	11072013-003.SSF	398872.557	18049
722096.774	4294283.942	8513	07-Nov-13	11072013-003.SSF	398873.683	18050

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722096.319	4294284.853	8993	07-Nov-13	11072013-003.SSF	398875.6479	18052
722096.355	4294285.14	8994	07-Nov-13	11072013-003.SSF	398876.595	18053
722096.791	4294285.176	8786	07-Nov-13	11072013-003.SSF	398877.725	18054
722097.125	4294284.975	8369	07-Nov-13	11072013-003.SSF	398878.559	18055
722097.396	4294284.746	8143	07-Nov-13	11072013-003.SSF	398879.693	18056
722097.402	4294284.538	8285	07-Nov-13	11072013-003.SSF	398880.636	18057
722097.314	4294284.039	9198	07-Nov-13	11072013-003.SSF	398881.709	18058
722097.372	4294283.55	9366	07-Nov-13	11072013-003.SSF	398882.626	18059
722097.713	4294283.274	9026	07-Nov-13	11072013-003.SSF	398883.733	18060
722097.996	4294283.363	9427	07-Nov-13	11072013-003.SSF	398884.618	18061
722098.019	4294283.513	9180	07-Nov-13	11072013-003.SSF	398885.7371	18062
722097.911	4294283.559	9123	07-Nov-13	11072013-003.SSF	398886.573	18063
722097.691	4294283.217	8987	07-Nov-13	11072013-003.SSF	398887.701	18064
722097.36	4294282.705	8625	07-Nov-13	11072013-003.SSF	398888.625	18065
722097.263	4294281.854	8279	07-Nov-13	11072013-003.SSF	398889.74	18066
722097.368	4294281.115	8849	07-Nov-13	11072013-003.SSF	398890.661	18067
722097.287	4294280.514	9073	07-Nov-13	11072013-003.SSF	398891.722	18068
722097.205	4294280.302	8486	07-Nov-13	11072013-003.SSF	398892.6169	18069
722097.247	4294280.259	8981	07-Nov-13	11072013-003.SSF	398893.733	18070
722097.383	4294280.152	8801	07-Nov-13	11072013-003.SSF	398894.63	18071
722097.667	4294279.873	9436	07-Nov-13	11072013-003.SSF	398895.7271	18072
722097.871	4294279.647	9252	07-Nov-13	11072013-003.SSF	398896.569	18073
722098.007	4294279.516	9359	07-Nov-13	11072013-003.SSF	398897.698	18074
722098.052	4294279.534	9540	07-Nov-13	11072013-003.SSF	398898.625	18075
722098.092	4294279.552	9258	07-Nov-13	11072013-003.SSF	398899.7321	18076
722098.004	4294279.565	9453	07-Nov-13	11072013-003.SSF	398900.626	18077
722097.982	4294279.713	9029	07-Nov-13	11072013-003.SSF	398901.723	18078
722097.932	4294279.733	8926	07-Nov-13	11072013-003.SSF	398902.615	18079
722097.617	4294279.884	8996	07-Nov-13	11072013-003.SSF	398903.735	18080
722097.321	4294280.007	9177	07-Nov-13	11072013-003.SSF	398904.6331	18081
722097.073	4294280.105	8567	07-Nov-13	11072013-003.SSF	398905.645	18082
722097.039	4294280.119	8801	07-Nov-13	11072013-003.SSF	398906.594	18083
722096.964	4294280.002	9226	07-Nov-13	11072013-003.SSF	398907.667	18084
722096.765	4294279.903	9307	07-Nov-13	11072013-003.SSF	398908.579	18085
722096.581	4294279.847	9210	07-Nov-13	11072013-003.SSF	398909.702	18086
722096.247	4294280.044	8953	07-Nov-13	11072013-003.SSF	398910.627	18087
722095.78	4294280.598	8838	07-Nov-13	11072013-003.SSF	398911.724	18088
722095.607	4294281.355	9329	07-Nov-13	11072013-003.SSF	398912.634	18089
722095.372	4294282.465	8907	07-Nov-13	11072013-003.SSF	398913.667	18090
722094.939	4294283.617	9390	07-Nov-13	11072013-003.SSF	398914.658	18091
722094.517	4294284.651	9197	07-Nov-13	11072013-003.SSF	398915.6281	18092
722094.494	4294285.484	9403	07-Nov-13	11072013-003.SSF	398916.588	18093
722094.669	4294286.199	8852	07-Nov-13	11072013-003.SSF	398917.592	18094
722094.582	4294286.908	8679	07-Nov-13	11072013-003.SSF	398918.59	18095
722094.37	4294287.842	8339	07-Nov-13	11072013-003.SSF	398919.608	18096
722094.212	4294288.819	8058	07-Nov-13	11072013-003.SSF	398920.556	18097

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722093.744	4294291.05	8909	07-Nov-13	11072013-003.SSF	398922.52	18099
722093.854	4294292.134	9211	07-Nov-13	11072013-003.SSF	398923.6121	18100
722094.357	4294293.018	8901	07-Nov-13	11072013-003.SSF	398924.606	18101
722094.798	4294293.965	8479	07-Nov-13	11072013-003.SSF	398925.652	18102
722094.697	4294294.913	8339	07-Nov-13	11072013-003.SSF	398926.597	18103
722094.131	4294296.038	8502	07-Nov-13	11072013-003.SSF	398927.703	18104
722093.727	4294296.742	8569	07-Nov-13	11072013-003.SSF	398928.54	18105
722093.605	4294297.619	8593	07-Nov-13	11072013-003.SSF	398929.6379	18106
722093.847	4294298.11	8246	07-Nov-13	11072013-003.SSF	398930.647	18107
722093.953	4294298.045	8996	07-Nov-13	11072013-003.SSF	398931.6949	18108
722093.92	4294297.906	8742	07-Nov-13	11072013-003.SSF	398932.631	18109
722093.852	4294297.882	8435	07-Nov-13	11072013-003.SSF	398933.647	18110
722093.797	4294297.918	8142	07-Nov-13	11072013-003.SSF	398934.572	18111
722093.771	4294297.947	8675	07-Nov-13	11072013-003.SSF	398935.712	18112
722093.801	4294297.968	8194	07-Nov-13	11072013-003.SSF	398936.605	18113
722093.822	4294297.911	7534	07-Nov-13	11072013-003.SSF	398937.729	18114
722093.815	4294297.856	7493	07-Nov-13	11072013-003.SSF	398938.588	18115
722093.723	4294297.884	8452	07-Nov-13	11072013-003.SSF	398939.712	18116
722093.503	4294297.93	8572	07-Nov-13	11072013-003.SSF	398940.681	18117
722093.051	4294298.063	8376	07-Nov-13	11072013-003.SSF	398941.736	18118
722092.862	4294298.248	7847	07-Nov-13	11072013-003.SSF	398942.663	18119
722092.768	4294298.545	8576	07-Nov-13	11072013-003.SSF	398943.703	18120
722092.552	4294299.134	7816	07-Nov-13	11072013-003.SSF	398944.595	18121
722092.286	4294300.272	7592	07-Nov-13	11072013-003.SSF	398945.663	18122
722092.103	4294301.13	7420	07-Nov-13	11072013-003.SSF	398946.5439	18123
722091.735	4294301.554	6109	07-Nov-13	11072013-003.SSF	398947.584	18124
722091.209	4294301.444	5738	07-Nov-13	11072013-003.SSF	398948.535	18125
722090.77	4294301.233	4900	07-Nov-13	11072013-003.SSF	398949.618	18126
722091	4294301.182	3777	07-Nov-13	11072013-003.SSF	398956.504	18127
722091.004	4294301.237	4044	07-Nov-13	11072013-003.SSF	398957.6541	18128
722091.026	4294301.569	3927	07-Nov-13	11072013-003.SSF	398959.63	18129
722091.007	4294301.627	3911	07-Nov-13	11072013-003.SSF	398960.5551	18130
722090.876	4294301.567	3963	07-Nov-13	11072013-003.SSF	398961.625	18131
722090.732	4294301.462	4059	07-Nov-13	11072013-003.SSF	398962.559	18132
722090.664	4294301.424	3933	07-Nov-13	11072013-003.SSF	398963.642	18133
722090.688	4294301.484	4117	07-Nov-13	11072013-003.SSF	398964.5861	18134
722090.701	4294301.531	4326	07-Nov-13	11072013-003.SSF	398965.568	18135
722090.697	4294301.547	4278	07-Nov-13	11072013-003.SSF	398966.549	18136
722090.72	4294301.509	4686	07-Nov-13	11072013-003.SSF	398967.631	18137
722090.68	4294301.561	4361	07-Nov-13	11072013-003.SSF	398968.5811	18138
722090.618	4294301.747	4230	07-Nov-13	11072013-003.SSF	398969.644	18139
722090.656	4294301.802	3842	07-Nov-13	11072013-003.SSF	398970.579	18140
722090.697	4294301.773	4148	07-Nov-13	11072013-003.SSF	398971.6379	18141
722090.797	4294301.686	4088	07-Nov-13	11072013-003.SSF	398972.567	18142
722090.83	4294301.727	4114	07-Nov-13	11072013-003.SSF	398973.6169	18143
722090.605	4294302.177	5059	07-Nov-13	11072013-003.SSF	398974.566	18144

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722090.286	4294303.186	5193	07-Nov-13	11072013-003.SSF	398975.647	18145
722090.309	4294304.263	5801	07-Nov-13	11072013-003.SSF	398976.604	18146
722090.751	4294305.391	5888	07-Nov-13	11072013-003.SSF	398977.647	18147
722091.28	4294306.267	6777	07-Nov-13	11072013-003.SSF	398978.595	18148
722091.931	4294307.141	7637	07-Nov-13	11072013-003.SSF	398979.666	18149
722092.517	4294307.868	8016	07-Nov-13	11072013-003.SSF	398980.563	18150
722093.043	4294308.807	7989	07-Nov-13	11072013-003.SSF	398981.618	18151
722093.354	4294309.667	7943	07-Nov-13	11072013-003.SSF	398982.532	18152
722093.851	4294310.507	7536	07-Nov-13	11072013-003.SSF	398983.673	18153
722094.319	4294311.064	7479	07-Nov-13	11072013-003.SSF	398984.568	18154
722094.989	4294311.813	7297	07-Nov-13	11072013-003.SSF	398985.715	18155
722095.558	4294312.161	7052	07-Nov-13	11072013-003.SSF	398986.623	18156
722096.053	4294312.471	6269	07-Nov-13	11072013-003.SSF	398987.671	18157
722096.378	4294312.737	6121	07-Nov-13	11072013-003.SSF	398988.634	18158
722096.587	4294312.875	5685	07-Nov-13	11072013-003.SSF	398989.719	18159
722096.636	4294312.934	6108	07-Nov-13	11072013-003.SSF	398990.6021	18160
722096.623	4294312.883	5648	07-Nov-13	11072013-003.SSF	398991.684	18161
722096.807	4294312.635	5344	07-Nov-13	11072013-003.SSF	398992.558	18162
722097.521	4294312.283	5324	07-Nov-13	11072013-003.SSF	398993.6429	18163
722098.462	4294312.13	5229	07-Nov-13	11072013-003.SSF	398994.594	18164
722099.374	4294311.804	5686	07-Nov-13	11072013-003.SSF	398995.615	18165
722100.011	4294311.156	5613	07-Nov-13	11072013-003.SSF	398996.5179	18166
722100.889	4294310.202	5340	07-Nov-13	11072013-003.SSF	398997.609	18167
722101.939	4294309.525	5523	07-Nov-13	11072013-003.SSF	398998.595	18168
722103.202	4294309.226	5942	07-Nov-13	11072013-003.SSF	398999.616	18169
722104.215	4294309.413	5945	07-Nov-13	11072013-003.SSF	399000.5	18170
722105.269	4294309.92	5744	07-Nov-13	11072013-003.SSF	399001.592	18171
722106.199	4294310.128	5736	07-Nov-13	11072013-003.SSF	399002.532	18172
722107.43	4294310.028	5919	07-Nov-13	11072013-003.SSF	399003.605	18173
722108.507	4294309.972	5474	07-Nov-13	11072013-003.SSF	399004.536	18174
722109.493	4294310.249	5786	07-Nov-13	11072013-003.SSF	399005.562	18175
722110.092	4294310.773	5812	07-Nov-13	11072013-003.SSF	399006.484	18176
722110.401	4294311.274	5887	07-Nov-13	11072013-003.SSF	399007.598	18177
722110.44	4294311.356	5636	07-Nov-13	11072013-003.SSF	399008.486	18178
722110.451	4294311.276	5510	07-Nov-13	11072013-003.SSF	399009.609	18179
722110.504	4294311.27	5244	07-Nov-13	11072013-003.SSF	399010.547	18180
722110.86	4294311.225	5732	07-Nov-13	11072013-003.SSF	399011.649	18181
722111.54	4294311.197	5564	07-Nov-13	11072013-003.SSF	399012.554	18182
722112.664	4294311.489	5762	07-Nov-13	11072013-003.SSF	399013.707	18183
722113.596	4294312.012	6174	07-Nov-13	11072013-003.SSF	399014.593	18184
722114.748	4294312.645	5977	07-Nov-13	11072013-003.SSF	399015.703	18185
722115.568	4294312.943	6422	07-Nov-13	11072013-003.SSF	399016.608	18186
722116.504	4294313.246	5817	07-Nov-13	11072013-003.SSF	399017.6689	18187
722117.284	4294313.589	6070	07-Nov-13	11072013-003.SSF	399018.588	18188
722117.891	4294314.161	6819	07-Nov-13	11072013-003.SSF	399019.618	18189
722118.231	4294314.86	6888	07-Nov-13	11072013-003.SSF	399020.6121	18190
722118.537	4294315.365	7339	07-Nov-13	11072013-003.SSF	399021.634	18191

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722118.824	4294315.664	7421	07-Nov-13	11072013-003.SSF	399022.588	18192
722119.213	4294315.823	7721	07-Nov-13	11072013-003.SSF	399023.6541	18193
722119.541	4294316.001	8033	07-Nov-13	11072013-003.SSF	399024.616	18194
722119.802	4294316.217	8373	07-Nov-13	11072013-003.SSF	399025.644	18195
722119.985	4294316.296	8640	07-Nov-13	11072013-003.SSF	399026.589	18196
722120.154	4294316.434	8145	07-Nov-13	11072013-003.SSF	399027.656	18197
722120.316	4294316.606	7859	07-Nov-13	11072013-003.SSF	399028.567	18198
722120.641	4294316.866	7541	07-Nov-13	11072013-003.SSF	399029.656	18199
722121.044	4294317.04	7309	07-Nov-13	11072013-003.SSF	399030.5551	18200
722121.504	4294317.133	7426	07-Nov-13	11072013-003.SSF	399031.583	18201
722121.912	4294317.205	7732	07-Nov-13	11072013-003.SSF	399032.558	18202
722122.292	4294317.446	7349	07-Nov-13	11072013-003.SSF	399033.605	18203
722122.632	4294317.637	7599	07-Nov-13	11072013-003.SSF	399034.511	18204
722123.152	4294317.921	7844	07-Nov-13	11072013-003.SSF	399035.653	18205
722123.592	4294318.162	7532	07-Nov-13	11072013-003.SSF	399036.526	18206
722124.028	4294318.472	7409	07-Nov-13	11072013-003.SSF	399037.65	18207
722124.339	4294318.742	7100	07-Nov-13	11072013-003.SSF	399038.573	18208
722124.686	4294318.966	7863	07-Nov-13	11072013-003.SSF	399039.595	18209
722125.015	4294319.076	7851	07-Nov-13	11072013-003.SSF	399040.543	18210
722125.196	4294319.046	7596	07-Nov-13	11072013-003.SSF	399041.653	18211
722124.932	4294319.154	8390	07-Nov-13	11072013-003.SSF	399042.599	18212
722124.484	4294319.281	8604	07-Nov-13	11072013-003.SSF	399043.652	18213
722123.954	4294319.171	8650	07-Nov-13	11072013-003.SSF	399044.575	18214
722123.33	4294319.081	8893	07-Nov-13	11072013-003.SSF	399045.629	18215
722123.001	4294319.114	8775	07-Nov-13	11072013-003.SSF	399046.516	18216
722122.676	4294319.077	8483	07-Nov-13	11072013-003.SSF	399047.6331	18217
722122.346	4294318.821	8289	07-Nov-13	11072013-003.SSF	399048.525	18218
722121.876	4294318.388	8187	07-Nov-13	11072013-003.SSF	399049.623	18219
722121.502	4294318.123	8280	07-Nov-13	11072013-003.SSF	399050.4919	18220
722121.122	4294317.943	8310	07-Nov-13	11072013-003.SSF	399051.597	18221
722120.836	4294317.809	8177	07-Nov-13	11072013-003.SSF	399052.499	18222
722120.317	4294317.393	8559	07-Nov-13	11072013-003.SSF	399053.608	18223
722119.623	4294316.937	8647	07-Nov-13	11072013-003.SSF	399054.505	18224
722118.708	4294316.579	9124	07-Nov-13	11072013-003.SSF	399055.556	18225
722118.191	4294316.503	8657	07-Nov-13	11072013-003.SSF	399056.507	18226
722118.103	4294316.651	8267	07-Nov-13	11072013-003.SSF	399057.556	18227
722118.316	4294316.742	8385	07-Nov-13	11072013-003.SSF	399058.485	18228
722118.658	4294316.803	8046	07-Nov-13	11072013-003.SSF	399059.6219	18229
722118.971	4294317.189	7961	07-Nov-13	11072013-003.SSF	399060.543	18230
722119.285	4294317.88	8085	07-Nov-13	11072013-003.SSF	399061.546	18231
722119.52	4294318.368	8515	07-Nov-13	11072013-003.SSF	399062.476	18232
722119.911	4294318.661	8547	07-Nov-13	11072013-003.SSF	399063.595	18233
722120.309	4294318.749	8565	07-Nov-13	11072013-003.SSF	399064.524	18234
722120.736	4294318.884	8515	07-Nov-13	11072013-003.SSF	399065.644	18235
722120.893	4294319.092	8757	07-Nov-13	11072013-003.SSF	399066.573	18236
722120.774	4294318.96	8496	07-Nov-13	11072013-003.SSF	399067.693	18237
722120.521	4294318.722	8821	07-Nov-13	11072013-003.SSF	399068.615	18238

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722120.214	4294318.597	8344	07-Nov-13	11072013-003.SSF	399069.642	18239
722120.063	4294318.551	8534	07-Nov-13	11072013-003.SSF	399070.55	18240
722119.976	4294318.453	7687	07-Nov-13	11072013-003.SSF	399071.641	18241
722119.849	4294318.461	7946	07-Nov-13	11072013-003.SSF	399072.573	18242
722119.681	4294318.601	7950	07-Nov-13	11072013-003.SSF	399073.58	18243
722119.571	4294318.719	8754	07-Nov-13	11072013-003.SSF	399074.542	18244
722119.523	4294318.782	8434	07-Nov-13	11072013-003.SSF	399075.6071	18245
722119.49	4294318.801	7976	07-Nov-13	11072013-003.SSF	399076.553	18246
722119.465	4294318.83	7637	07-Nov-13	11072013-003.SSF	399077.691	18247
722119.463	4294318.848	7326	07-Nov-13	11072013-003.SSF	399078.587	18248
722119.47	4294318.843	7391	07-Nov-13	11072013-003.SSF	399079.674	18249
722119.552	4294318.736	7742	07-Nov-13	11072013-003.SSF	399080.488	18250
722119.704	4294318.507	8082	07-Nov-13	11072013-003.SSF	399081.604	18251
722119.761	4294318.47	8274	07-Nov-13	11072013-003.SSF	399082.507	18252
722119.781	4294318.576	8629	07-Nov-13	11072013-003.SSF	399083.629	18253
722119.803	4294318.639	8701	07-Nov-13	11072013-003.SSF	399084.49	18254
722119.826	4294318.696	8314	07-Nov-13	11072013-003.SSF	399085.672	18255
722119.828	4294318.732	8291	07-Nov-13	11072013-003.SSF	399086.5229	18256
722119.854	4294318.8	9044	07-Nov-13	11072013-003.SSF	399087.676	18257
722119.876	4294318.857	8687	07-Nov-13	11072013-003.SSF	399088.568	18258
722119.859	4294318.9	8479	07-Nov-13	11072013-003.SSF	399089.6	18259
722119.897	4294318.864	8662	07-Nov-13	11072013-003.SSF	399090.519	18260
722119.991	4294318.606	8764	07-Nov-13	11072013-003.SSF	399091.6689	18261
722120.157	4294318.238	8687	07-Nov-13	11072013-003.SSF	399092.5389	18262
722120.494	4294317.644	8921	07-Nov-13	11072013-003.SSF	399093.668	18263
722120.599	4294317.065	8258	07-Nov-13	11072013-003.SSF	399094.593	18264
722120.804	4294316.374	7600	07-Nov-13	11072013-003.SSF	399095.636	18265
722121.086	4294315.715	7042	07-Nov-13	11072013-003.SSF	399096.575	18266
722121.163	4294314.949	6346	07-Nov-13	11072013-003.SSF	399097.588	18267
722121.131	4294314.225	5887	07-Nov-13	11072013-003.SSF	399098.519	18268
722121.026	4294313.517	6116	07-Nov-13	11072013-003.SSF	399099.626	18269
722120.968	4294313.198	5690	07-Nov-13	11072013-003.SSF	399100.527	18270
722121.031	4294313.018	5646	07-Nov-13	11072013-003.SSF	399101.588	18271
722121.173	4294312.927	5981	07-Nov-13	11072013-003.SSF	399102.519	18272
722121.305	4294312.835	5959	07-Nov-13	11072013-003.SSF	399103.6021	18273
722121.251	4294312.735	6044	07-Nov-13	11072013-003.SSF	399104.514	18274
722121.165	4294312.687	5582	07-Nov-13	11072013-003.SSF	399105.639	18275
722121.181	4294312.873	5442	07-Nov-13	11072013-003.SSF	399106.55	18276
722121.371	4294313.272	5784	07-Nov-13	11072013-003.SSF	399107.566	18277
722121.856	4294314.439	5425	07-Nov-13	11072013-003.SSF	399109.575	18278
722121.805	4294314.804	5549	07-Nov-13	11072013-003.SSF	399110.553	18279
722121.691	4294314.729	5611	07-Nov-13	11072013-003.SSF	399111.579	18280
722121.722	4294314.572	5294	07-Nov-13	11072013-003.SSF	399112.49	18281
722121.897	4294314.583	5400	07-Nov-13	11072013-003.SSF	399113.5909	18282
722121.99	4294314.607	5580	07-Nov-13	11072013-003.SSF	399114.571	18283
722121.988	4294314.55	5344	07-Nov-13	11072013-003.SSF	399115.538	18284
722121.965	4294314.487	5706	07-Nov-13	11072013-003.SSF	399116.524	18285

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722121.921	4294314.452	6435	07-Nov-13	11072013-003.SSF	399117.576	18286
722121.759	4294314.601	6237	07-Nov-13	11072013-003.SSF	399118.519	18287
722121.26	4294314.883	6036	07-Nov-13	11072013-003.SSF	399119.5341	18288
722120.477	4294315.034	6147	07-Nov-13	11072013-003.SSF	399120.548	18289
722119.771	4294314.98	6368	07-Nov-13	11072013-003.SSF	399121.575	18290
722119.256	4294314.6	5884	07-Nov-13	11072013-003.SSF	399122.568	18291
722118.739	4294314.085	6175	07-Nov-13	11072013-003.SSF	399123.651	18292
722118.296	4294313.869	6398	07-Nov-13	11072013-003.SSF	399124.573	18293
722117.864	4294313.944	6711	07-Nov-13	11072013-003.SSF	399125.55	18294
722117.672	4294314.377	7375	07-Nov-13	11072013-003.SSF	399126.498	18295
722117.775	4294314.896	7786	07-Nov-13	11072013-003.SSF	399127.5179	18296
722117.888	4294315.043	8144	07-Nov-13	11072013-003.SSF	399128.453	18297
722117.917	4294314.957	8076	07-Nov-13	11072013-003.SSF	399129.61	18298
722117.947	4294314.909	7925	07-Nov-13	11072013-003.SSF	399130.547	18299
722117.974	4294314.924	8170	07-Nov-13	11072013-003.SSF	399131.569	18300
722117.985	4294314.969	8121	07-Nov-13	11072013-003.SSF	399132.505	18301
722117.971	4294314.994	8280	07-Nov-13	11072013-003.SSF	399133.538	18302
722117.915	4294314.977	8235	07-Nov-13	11072013-003.SSF	399134.47	18303
722117.766	4294315.037	7917	07-Nov-13	11072013-003.SSF	399135.543	18304
722117.323	4294315.224	8128	07-Nov-13	11072013-003.SSF	399136.472	18305
722116.681	4294315.41	8059	07-Nov-13	11072013-003.SSF	399137.621	18306
722116.431	4294315.687	8411	07-Nov-13	11072013-003.SSF	399138.532	18307
722116.039	4294316.021	8923	07-Nov-13	11072013-003.SSF	399139.566	18308
722115.599	4294316.107	8387	07-Nov-13	11072013-003.SSF	399140.5439	18309
722115.389	4294316.076	8055	07-Nov-13	11072013-003.SSF	399141.569	18310
722115.323	4294316.149	8161	07-Nov-13	11072013-003.SSF	399142.489	18311
722115.262	4294316.219	8370	07-Nov-13	11072013-003.SSF	399143.626	18312
722115.255	4294316.174	8481	07-Nov-13	11072013-003.SSF	399144.536	18313
722115.13	4294316.38	8475	07-Nov-13	11072013-003.SSF	399145.644	18314
722115.447	4294316.377	8617	07-Nov-13	11072013-003.SSF	399147.626	18315
722115.646	4294316.254	8627	07-Nov-13	11072013-003.SSF	399148.548	18316
722115.732	4294316.142	8445	07-Nov-13	11072013-003.SSF	399149.646	18317
722115.739	4294316.137	8178	07-Nov-13	11072013-003.SSF	399150.4449	18318
722115.725	4294316.18	7750	07-Nov-13	11072013-003.SSF	399151.536	18319
722115.697	4294316.2	7959	07-Nov-13	11072013-003.SSF	399152.458	18320
722115.925	4294316.163	8009	07-Nov-13	11072013-003.SSF	399153.532	18321
722116.605	4294316.012	8780	07-Nov-13	11072013-003.SSF	399154.459	18322
722117.516	4294315.847	9071	07-Nov-13	11072013-003.SSF	399155.566	18323
722118.188	4294315.864	8372	07-Nov-13	11072013-003.SSF	399156.464	18324
722119.216	4294316.201	8519	07-Nov-13	11072013-003.SSF	399157.552	18325
722119.888	4294316.872	8115	07-Nov-13	11072013-003.SSF	399158.524	18326
722119.895	4294317.785	8412	07-Nov-13	11072013-003.SSF	399159.5959	18327
722119.417	4294318.582	8039	07-Nov-13	11072013-003.SSF	399160.522	18328
722118.858	4294319.258	7904	07-Nov-13	11072013-003.SSF	399161.652	18329
722118.65	4294319.587	7716	07-Nov-13	11072013-003.SSF	399162.516	18330
722118.435	4294319.987	7745	07-Nov-13	11072013-003.SSF	399163.559	18331
722118.316	4294320.306	8076	07-Nov-13	11072013-003.SSF	399164.474	18332

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722118.119	4294320.571	8660	07-Nov-13	11072013-003.SSF	399165.545	18333
722117.617	4294320.718	8599	07-Nov-13	11072013-003.SSF	399166.519	18334
722117.048	4294320.545	8467	07-Nov-13	11072013-003.SSF	399167.538	18335
722116.582	4294320.095	8550	07-Nov-13	11072013-003.SSF	399168.463	18336
722116.09	4294319.693	8447	07-Nov-13	11072013-003.SSF	399169.582	18337
722115.876	4294319.705	8201	07-Nov-13	11072013-003.SSF	399170.5601	18338
722115.679	4294319.834	7845	07-Nov-13	11072013-003.SSF	399171.587	18339
722115.427	4294319.791	8133	07-Nov-13	11072013-003.SSF	399172.511	18340
722115.17	4294319.587	8947	07-Nov-13	11072013-003.SSF	399173.673	18341
722115.104	4294319.512	8483	07-Nov-13	11072013-003.SSF	399174.49	18342
722115.022	4294319.508	8461	07-Nov-13	11072013-003.SSF	399175.564	18343
722114.93	4294319.539	8059	07-Nov-13	11072013-003.SSF	399176.504	18344
722114.885	4294319.592	8268	07-Nov-13	11072013-003.SSF	399177.547	18345
722114.835	4294319.668	8918	07-Nov-13	11072013-003.SSF	399178.465	18346
722114.721	4294319.767	8706	07-Nov-13	11072013-003.SSF	399179.582	18347
722114.771	4294319.725	9135	07-Nov-13	11072013-003.SSF	399180.551	18348
722114.868	4294319.606	8730	07-Nov-13	11072013-003.SSF	399181.566	18349
722114.846	4294319.526	8848	07-Nov-13	11072013-003.SSF	399182.4709	18350
722114.902	4294319.417	8637	07-Nov-13	11072013-003.SSF	399183.588	18351
722115.077	4294319.398	8713	07-Nov-13	11072013-003.SSF	399184.52	18352
722115.276	4294319.517	8553	07-Nov-13	11072013-003.SSF	399185.563	18353
722115.36	4294319.604	8726	07-Nov-13	11072013-003.SSF	399186.4821	18354
722115.345	4294319.597	8801	07-Nov-13	11072013-003.SSF	399187.599	18355
722115.345	4294319.595	8295	07-Nov-13	11072013-003.SSF	399188.462	18356
722115.398	4294319.622	8476	07-Nov-13	11072013-003.SSF	399189.557	18357
722115.435	4294319.622	8593	07-Nov-13	11072013-003.SSF	399190.49	18358
722115.447	4294319.616	8658	07-Nov-13	11072013-003.SSF	399191.576	18359
722115.444	4294319.61	9055	07-Nov-13	11072013-003.SSF	399192.504	18360
722115.458	4294319.595	8791	07-Nov-13	11072013-003.SSF	399193.525	18361
722115.494	4294319.585	8102	07-Nov-13	11072013-003.SSF	399194.5291	18362
722115.519	4294319.567	8067	07-Nov-13	11072013-003.SSF	399195.589	18363
722115.527	4294319.551	8670	07-Nov-13	11072013-003.SSF	399196.521	18364
722115.537	4294319.539	8844	07-Nov-13	11072013-003.SSF	399197.621	18365
722115.553	4294319.522	8822	07-Nov-13	11072013-003.SSF	399198.498	18366
722115.575	4294319.492	8270	07-Nov-13	11072013-003.SSF	399199.511	18367
722115.501	4294319.416	8702	07-Nov-13	11072013-003.SSF	399200.437	18368
722115.444	4294319.294	8772	07-Nov-13	11072013-003.SSF	399201.556	18369
722115.568	4294319.372	8992	07-Nov-13	11072013-003.SSF	399202.459	18370
722115.645	4294319.658	8950	07-Nov-13	11072013-003.SSF	399203.51	18371
722115.628	4294320.009	8987	07-Nov-13	11072013-003.SSF	399204.4399	18372
722115.64	4294320.425	8640	07-Nov-13	11072013-003.SSF	399205.496	18373
722115.714	4294320.674	8242	07-Nov-13	11072013-003.SSF	399206.416	18374
722115.846	4294320.981	8716	07-Nov-13	11072013-003.SSF	399207.516	18375
722115.923	4294321.338	8585	07-Nov-13	11072013-003.SSF	399208.4301	18376
722115.619	4294321.819	8384	07-Nov-13	11072013-003.SSF	399209.575	18377
722115.129	4294322.186	8338	07-Nov-13	11072013-003.SSF	399210.541	18378
722114.985	4294322.541	8268	07-Nov-13	11072013-003.SSF	399211.562	18379

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722114.933	4294322.867	8070	07-Nov-13	11072013-003.SSF	399212.48	18380
722114.579	4294323.425	8432	07-Nov-13	11072013-003.SSF	399213.597	18381
722114.356	4294323.988	8215	07-Nov-13	11072013-003.SSF	399214.538	18382
722114.162	4294324.615	8468	07-Nov-13	11072013-003.SSF	399215.536	18383
722113.898	4294325.182	8601	07-Nov-13	11072013-003.SSF	399216.448	18384
722113.759	4294325.85	9064	07-Nov-13	11072013-003.SSF	399217.593	18385
722113.738	4294326.424	9078	07-Nov-13	11072013-003.SSF	399218.516	18386
722113.815	4294327.146	8650	07-Nov-13	11072013-003.SSF	399219.599	18387
722113.967	4294327.736	8646	07-Nov-13	11072013-003.SSF	399220.443	18388
722113.945	4294328.48	9131	07-Nov-13	11072013-003.SSF	399221.615	18389
722113.726	4294328.718	9043	07-Nov-13	11072013-003.SSF	399222.525	18390
722113.568	4294328.859	9032	07-Nov-13	11072013-003.SSF	399223.632	18391
722113.458	4294329.121	9594	07-Nov-13	11072013-003.SSF	399224.519	18392
722113.331	4294329.44	9076	07-Nov-13	11072013-003.SSF	399225.55	18393
722113.366	4294329.684	8660	07-Nov-13	11072013-003.SSF	399226.469	18394
722113.436	4294329.854	9056	07-Nov-13	11072013-003.SSF	399227.5179	18395
722113.403	4294330.069	9399	07-Nov-13	11072013-003.SSF	399228.413	18396
722113.213	4294330.816	9052	07-Nov-13	11072013-003.SSF	399229.558	18397
722113.055	4294331.363	8939	07-Nov-13	11072013-003.SSF	399230.494	18398
722113.078	4294331.444	9078	07-Nov-13	11072013-003.SSF	399231.577	18399
722113.175	4294331.305	8729	07-Nov-13	11072013-003.SSF	399232.537	18400
722113.243	4294331.222	9020	07-Nov-13	11072013-003.SSF	399233.609	18401
722113.327	4294331.046	8493	07-Nov-13	11072013-003.SSF	399234.514	18402
722113.389	4294330.606	9037	07-Nov-13	11072013-003.SSF	399235.623	18403
722113.515	4294330.055	9193	07-Nov-13	11072013-003.SSF	399236.556	18404
722113.595	4294329.326	8764	07-Nov-13	11072013-003.SSF	399237.6	18405
722113.579	4294328.599	8964	07-Nov-13	11072013-003.SSF	399238.538	18406
722113.631	4294327.831	9077	07-Nov-13	11072013-003.SSF	399239.549	18407
722113.626	4294327.193	9478	07-Nov-13	11072013-003.SSF	399240.542	18408
722113.718	4294326.731	8596	07-Nov-13	11072013-003.SSF	399241.5551	18409
722113.822	4294326.536	8232	07-Nov-13	11072013-003.SSF	399242.467	18410
722113.906	4294326.48	8141	07-Nov-13	11072013-003.SSF	399243.579	18411
722114.093	4294326.375	8404	07-Nov-13	11072013-003.SSF	399244.479	18412
722114.232	4294326.002	8132	07-Nov-13	11072013-003.SSF	399245.5291	18413
722114.327	4294325.487	8107	07-Nov-13	11072013-003.SSF	399246.519	18414
722114.447	4294324.914	8182	07-Nov-13	11072013-003.SSF	399247.5229	18415
722114.348	4294324.444	8525	07-Nov-13	11072013-003.SSF	399248.5229	18416
722114.338	4294324.143	8508	07-Nov-13	11072013-003.SSF	399249.5179	18417
722114.454	4294323.889	8475	07-Nov-13	11072013-003.SSF	399250.449	18418
722114.437	4294323.592	8997	07-Nov-13	11072013-003.SSF	399251.6121	18419
722114.424	4294323.413	8991	07-Nov-13	11072013-003.SSF	399252.464	18420
722114.458	4294323.028	8567	07-Nov-13	11072013-003.SSF	399253.593	18421
722114.555	4294322.642	8906	07-Nov-13	11072013-003.SSF	399254.519	18422
722114.636	4294322.239	8595	07-Nov-13	11072013-003.SSF	399255.5439	18423
722114.655	4294321.883	8697	07-Nov-13	11072013-003.SSF	399256.532	18424
722114.724	4294321.618	8859	07-Nov-13	11072013-003.SSF	399257.537	18425
722114.906	4294321.712	8853	07-Nov-13	11072013-003.SSF	399258.528	18426

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722114.937	4294321.951	8512	07-Nov-13	11072013-003.SSF	399259.593	18427
722114.72	4294322.126	8201	07-Nov-13	11072013-003.SSF	399260.422	18428
722114.201	4294322.52	8820	07-Nov-13	11072013-003.SSF	399261.509	18429
722113.718	4294322.699	7976	07-Nov-13	11072013-003.SSF	399262.436	18430
722113.572	4294322.469	8469	07-Nov-13	11072013-003.SSF	399263.549	18431
722113.588	4294322.12	9039	07-Nov-13	11072013-003.SSF	399264.504	18432
722113.445	4294321.753	9269	07-Nov-13	11072013-003.SSF	399265.5389	18433
722113.303	4294321.652	8626	07-Nov-13	11072013-003.SSF	399266.473	18434
722113.218	4294321.717	8595	07-Nov-13	11072013-003.SSF	399267.4969	18435
722113.216	4294321.645	8712	07-Nov-13	11072013-003.SSF	399268.452	18436
722113.2	4294321.521	8598	07-Nov-13	11072013-003.SSF	399269.557	18437
722113.18	4294321.466	8421	07-Nov-13	11072013-003.SSF	399270.439	18438
722113.223	4294321.372	8622	07-Nov-13	11072013-003.SSF	399271.559	18439
722113.298	4294321.308	8697	07-Nov-13	11072013-003.SSF	399272.425	18440
722113.365	4294321.255	8859	07-Nov-13	11072013-003.SSF	399273.557	18441
722113.393	4294321.221	8231	07-Nov-13	11072013-003.SSF	399274.4919	18442
722113.413	4294321.201	8290	07-Nov-13	11072013-003.SSF	399275.5601	18443
722113.42	4294321.169	8338	07-Nov-13	11072013-003.SSF	399276.4919	18444
722113.445	4294321.151	8470	07-Nov-13	11072013-003.SSF	399277.5229	18445
722113.507	4294321.182	8747	07-Nov-13	11072013-003.SSF	399278.479	18446
722113.575	4294321.21	8827	07-Nov-13	11072013-003.SSF	399279.536	18447
722113.582	4294321.203	8993	07-Nov-13	11072013-003.SSF	399280.452	18448
722113.558	4294321.178	9168	07-Nov-13	11072013-003.SSF	399281.543	18449
722113.542	4294321.167	8704	07-Nov-13	11072013-003.SSF	399282.488	18450
722113.531	4294321.154	8571	07-Nov-13	11072013-003.SSF	399283.511	18451
722113.533	4294321.146	8301	07-Nov-13	11072013-003.SSF	399284.4449	18452
722113.541	4294321.14	8269	07-Nov-13	11072013-003.SSF	399285.545	18453
722113.546	4294321.143	8139	07-Nov-13	11072013-003.SSF	399286.4709	18454
722113.552	4294321.15	8658	07-Nov-13	11072013-003.SSF	399287.597	18455
722113.567	4294321.136	8845	07-Nov-13	11072013-003.SSF	399288.453	18456
722113.657	4294321.121	8628	07-Nov-13	11072013-003.SSF	399289.585	18457
722113.74	4294321.069	8295	07-Nov-13	11072013-003.SSF	399290.438	18458
722113.771	4294320.977	8416	07-Nov-13	11072013-003.SSF	399291.528	18459
722113.752	4294321.008	8296	07-Nov-13	11072013-003.SSF	399292.468	18460
722113.711	4294321.11	8161	07-Nov-13	11072013-003.SSF	399293.494	18461
722113.64	4294321.111	7673	07-Nov-13	11072013-003.SSF	399294.418	18462
722113.559	4294320.98	8006	07-Nov-13	11072013-003.SSF	399295.553	18463
722113.586	4294320.997	8666	07-Nov-13	11072013-003.SSF	399296.3929	18464
722113.676	4294321.163	8632	07-Nov-13	11072013-003.SSF	399297.537	18465
722113.68	4294321.169	8755	07-Nov-13	11072013-003.SSF	399298.394	18466
722113.637	4294321.128	8712	07-Nov-13	11072013-003.SSF	399299.533	18467
722113.596	4294321.143	8755	07-Nov-13	11072013-003.SSF	399300.447	18468
722113.588	4294321.15	8352	07-Nov-13	11072013-003.SSF	399301.578	18469
722113.613	4294321.131	8951	07-Nov-13	11072013-003.SSF	399302.504	18470
722113.627	4294321.112	9205	07-Nov-13	11072013-003.SSF	399303.5811	18471
722113.628	4294321.109	9063	07-Nov-13	11072013-003.SSF	399304.429	18472
722113.623	4294321.106	7999	07-Nov-13	11072013-003.SSF	399305.594	18473

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722113.637	4294321.087	8217	07-Nov-13	11072013-003.SSF	399307.491	18475
722113.644	4294321.055	8214	07-Nov-13	11072013-003.SSF	399308.465	18476
722113.646	4294321.03	8243	07-Nov-13	11072013-003.SSF	399309.5341	18477
722113.649	4294321.016	8521	07-Nov-13	11072013-003.SSF	399310.465	18478
722113.654	4294321.014	8333	07-Nov-13	11072013-003.SSF	399311.485	18479
722113.658	4294321.013	8355	07-Nov-13	11072013-003.SSF	399312.392	18480
722113.666	4294321.022	8877	07-Nov-13	11072013-003.SSF	399313.562	18481
722113.666	4294321.038	8683	07-Nov-13	11072013-003.SSF	399314.462	18482
722113.66	4294321.018	8492	07-Nov-13	11072013-003.SSF	399315.526	18483
722113.666	4294321.002	8489	07-Nov-13	11072013-003.SSF	399316.41	18484
722113.666	4294321.002	8765	07-Nov-13	11072013-003.SSF	399317.452	18485
722113.82	4294320.915	9280	07-Nov-13	11072013-003.SSF	399318.3979	18486
722114.3	4294320.635	9277	07-Nov-13	11072013-003.SSF	399319.448	18487
722114.692	4294320.203	9088	07-Nov-13	11072013-003.SSF	399320.455	18488
722114.833	4294319.629	8870	07-Nov-13	11072013-003.SSF	399321.595	18489
722114.776	4294319.269	8812	07-Nov-13	11072013-003.SSF	399322.443	18490
722114.544	4294318.887	8444	07-Nov-13	11072013-003.SSF	399323.558	18491
722114.207	4294318.858	8500	07-Nov-13	11072013-003.SSF	399324.49	18492
722113.958	4294319.164	8786	07-Nov-13	11072013-003.SSF	399325.5811	18493
722114.044	4294319.389	8602	07-Nov-13	11072013-003.SSF	399326.51	18494
722114.011	4294319.603	9046	07-Nov-13	11072013-003.SSF	399327.552	18495
722113.974	4294319.876	8876	07-Nov-13	11072013-003.SSF	399328.475	18496
722114.293	4294320.195	9072	07-Nov-13	11072013-003.SSF	399329.5229	18497
722114.606	4294320.148	8718	07-Nov-13	11072013-003.SSF	399330.437	18498
722114.606	4294319.751	9006	07-Nov-13	11072013-003.SSF	399331.5601	18499
722114.496	4294319.374	9033	07-Nov-13	11072013-003.SSF	399332.457	18500
722114.316	4294318.862	8268	07-Nov-13	11072013-003.SSF	399333.573	18501
722114.022	4294318.516	8416	07-Nov-13	11072013-003.SSF	399334.467	18502
722113.759	4294318.297	8746	07-Nov-13	11072013-003.SSF	399335.535	18503
722113.649	4294318.312	9217	07-Nov-13	11072013-003.SSF	399336.365	18504
722113.636	4294318.469	8762	07-Nov-13	11072013-003.SSF	399337.474	18505
722113.963	4294318.846	8896	07-Nov-13	11072013-003.SSF	399338.387	18506
722114.351	4294319.63	8919	07-Nov-13	11072013-003.SSF	399339.469	18507
722114.068	4294320.385	8984	07-Nov-13	11072013-003.SSF	399340.439	18508
722113.337	4294321.394	8406	07-Nov-13	11072013-003.SSF	399341.506	18509
722112.882	4294322.291	8516	07-Nov-13	11072013-003.SSF	399342.421	18510
722112.798	4294322.857	9147	07-Nov-13	11072013-003.SSF	399343.559	18511
722112.853	4294323.042	8970	07-Nov-13	11072013-003.SSF	399344.415	18512
722112.983	4294323.376	9066	07-Nov-13	11072013-003.SSF	399345.545	18513
722113.07	4294323.788	9644	07-Nov-13	11072013-003.SSF	399346.502	18514
722113.075	4294324.213	9100	07-Nov-13	11072013-003.SSF	399347.536	18515
722113.18	4294324.359	8883	07-Nov-13	11072013-003.SSF	399348.436	18516
722113.265	4294324.581	8469	07-Nov-13	11072013-003.SSF	399349.557	18517
722113.143	4294324.781	8521	07-Nov-13	11072013-003.SSF	399350.4351	18518
722112.997	4294324.843	8408	07-Nov-13	11072013-003.SSF	399351.45	18519
722112.984	4294324.89	7849	07-Nov-13	11072013-003.SSF	399352.465	18520

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722113.125	4294324.744	8950	07-Nov-13	11072013-003.SSF	399355.48	18523
722113.107	4294324.707	8897	07-Nov-13	11072013-003.SSF	399356.438	18524
722113.05	4294324.567	8597	07-Nov-13	11072013-003.SSF	399357.4561	18525
722113.041	4294324.533	8848	07-Nov-13	11072013-003.SSF	399358.48	18526
722113.072	4294324.74	8509	07-Nov-13	11072013-003.SSF	399359.5341	18527
722113.125	4294324.889	8799	07-Nov-13	11072013-003.SSF	399360.403	18528
722113.234	4294324.915	9037	07-Nov-13	11072013-003.SSF	399361.52	18529
722113.324	4294324.975	8398	07-Nov-13	11072013-003.SSF	399362.423	18530
722113.324	4294325.063	8519	07-Nov-13	11072013-003.SSF	399363.543	18531
722113.241	4294325.101	8587	07-Nov-13	11072013-003.SSF	399364.405	18532
722113.115	4294325.108	8340	07-Nov-13	11072013-003.SSF	399365.511	18533
722113.026	4294325.168	8456	07-Nov-13	11072013-003.SSF	399366.413	18534
722113.066	4294325.3	8514	07-Nov-13	11072013-003.SSF	399367.564	18535
722113.343	4294325.437	9506	07-Nov-13	11072013-003.SSF	399368.488	18536
722113.632	4294325.753	9547	07-Nov-13	11072013-003.SSF	399369.4741	18537
722113.738	4294326.359	9465	07-Nov-13	11072013-003.SSF	399370.4519	18538
722113.762	4294327.297	8602	07-Nov-13	11072013-003.SSF	399371.5281	18539
722113.627	4294328.037	8821	07-Nov-13	11072013-003.SSF	399372.4399	18540
722113.376	4294328.62	8869	07-Nov-13	11072013-003.SSF	399373.481	18541
722113.089	4294328.923	8911	07-Nov-13	11072013-003.SSF	399374.436	18542
722112.571	4294329.153	8905	07-Nov-13	11072013-003.SSF	399375.467	18543
722112.147	4294329.373	8474	07-Nov-13	11072013-003.SSF	399376.4009	18544
722111.841	4294329.694	7669	07-Nov-13	11072013-003.SSF	399377.4309	18545
722111.461	4294330.054	8116	07-Nov-13	11072013-003.SSF	399378.4819	18546
722111.158	4294330.417	8173	07-Nov-13	11072013-003.SSF	399379.5061	18547
722111.039	4294330.861	8602	07-Nov-13	11072013-003.SSF	399380.4399	18548
722110.86	4294331.329	8896	07-Nov-13	11072013-003.SSF	399381.4509	18549
722110.712	4294331.696	9526	07-Nov-13	11072013-003.SSF	399382.385	18550
722110.713	4294332.15	9446	07-Nov-13	11072013-003.SSF	399383.51	18551
722110.644	4294332.276	9048	07-Nov-13	11072013-003.SSF	399384.4221	18552
722110.545	4294332.292	8374	07-Nov-13	11072013-003.SSF	399385.4629	18553
722110.586	4294332.282	8355	07-Nov-13	11072013-003.SSF	399386.416	18554
722110.607	4294332.235	8255	07-Nov-13	11072013-003.SSF	399387.469	18555
722110.466	4294332.201	8531	07-Nov-13	11072013-003.SSF	399388.396	18556
722110.348	4294332.08	7904	07-Nov-13	11072013-003.SSF	399389.512	18557
722110.456	4294332.142	8376	07-Nov-13	11072013-003.SSF	399390.4099	18558
722110.658	4294332.215	8056	07-Nov-13	11072013-003.SSF	399391.5139	18559
722110.817	4294331.998	8401	07-Nov-13	11072013-003.SSF	399392.446	18560
722111.075	4294331.432	8791	07-Nov-13	11072013-003.SSF	399393.5049	18561
722111.397	4294330.898	8305	07-Nov-13	11072013-003.SSF	399394.396	18562
722112.02	4294330.427	8264	07-Nov-13	11072013-003.SSF	399395.5271	18563
722112.682	4294330.17	8998	07-Nov-13	11072013-003.SSF	399396.418	18564
722113.614	4294329.888	8849	07-Nov-13	11072013-003.SSF	399397.5139	18565
722114.231	4294329.652	8427	07-Nov-13	11072013-003.SSF	399398.4009	18566
722114.61	4294329.393	8760	07-Nov-13	11072013-003.SSF	399399.5349	18567

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722114.773	4294329.311	8730	07-Nov-13	11072013-003.SSF	399400.489	18568
722114.929	4294329.326	8533	07-Nov-13	11072013-003.SSF	399401.5029	18569
722114.999	4294329.338	9277	07-Nov-13	11072013-003.SSF	399402.395	18570
722115.108	4294329.455	9208	07-Nov-13	11072013-003.SSF	399403.531	18571
722115.324	4294329.489	8622	07-Nov-13	11072013-003.SSF	399404.406	18572
722115.865	4294329.365	8562	07-Nov-13	11072013-003.SSF	399405.55	18573
722116.353	4294329.214	8491	07-Nov-13	11072013-003.SSF	399406.4419	18574
722116.61	4294328.55	8954	07-Nov-13	11072013-003.SSF	399407.5491	18575
722116.463	4294327.816	8411	07-Nov-13	11072013-003.SSF	399408.4619	18576
722116.194	4294327.261	8751	07-Nov-13	11072013-003.SSF	399409.52	18577
722115.986	4294326.776	8687	07-Nov-13	11072013-003.SSF	399410.4009	18578
722115.715	4294325.752	8869	07-Nov-13	11072013-003.SSF	399411.543	18579
722115.587	4294324.794	9421	07-Nov-13	11072013-003.SSF	399412.4729	18580
722115.571	4294323.769	8802	07-Nov-13	11072013-003.SSF	399413.5439	18581
722115.605	4294323.071	8221	07-Nov-13	11072013-003.SSF	399414.4341	18582
722115.595	4294322.424	8314	07-Nov-13	11072013-003.SSF	399415.5139	18583
722115.492	4294322.123	8134	07-Nov-13	11072013-003.SSF	399416.408	18584
722115.305	4294322.036	8228	07-Nov-13	11072013-003.SSF	399417.541	18585
722115.19	4294321.977	8168	07-Nov-13	11072013-003.SSF	399418.374	18586
722115.065	4294321.76	8659	07-Nov-13	11072013-003.SSF	399419.5391	18587
722115.039	4294321.506	8268	07-Nov-13	11072013-003.SSF	399420.3579	18588
722115.052	4294321.259	8408	07-Nov-13	11072013-003.SSF	399421.4729	18589
722114.911	4294321.159	8097	07-Nov-13	11072013-003.SSF	399422.4031	18590
722114.516	4294320.811	7944	07-Nov-13	11072013-003.SSF	399423.4099	18591
722114.207	4294320.326	8256	07-Nov-13	11072013-003.SSF	399424.3311	18592
722114.04	4294319.994	8161	07-Nov-13	11072013-003.SSF	399425.541	18593
722114.065	4294319.955	8055	07-Nov-13	11072013-003.SSF	399426.479	18594
722114.138	4294319.979	8731	07-Nov-13	11072013-003.SSF	399427.501	18595
722114.36	4294319.929	8714	07-Nov-13	11072013-003.SSF	399428.437	18596
722114.73	4294319.729	8674	07-Nov-13	11072013-003.SSF	399429.511	18597
722114.755	4294319.58	8771	07-Nov-13	11072013-003.SSF	399430.3459	18598
722114.444	4294319.591	9096	07-Nov-13	11072013-003.SSF	399431.4729	18599
722114.282	4294319.681	8664	07-Nov-13	11072013-003.SSF	399432.3491	18600
722114.393	4294319.588	8421	07-Nov-13	11072013-003.SSF	399433.4419	18601
722114.651	4294319.215	8456	07-Nov-13	11072013-003.SSF	399434.4021	18602
722114.81	4294318.678	8379	07-Nov-13	11072013-003.SSF	399435.47	18603
722114.879	4294318.387	8456	07-Nov-13	11072013-003.SSF	399436.3799	18604
722114.936	4294318.375	8281	07-Nov-13	11072013-003.SSF	399437.448	18605
722114.952	4294318.401	8648	07-Nov-13	11072013-003.SSF	399438.3711	18606
722114.739	4294318.423	8869	07-Nov-13	11072013-003.SSF	399439.4951	18607
722114.348	4294318.33	9279	07-Nov-13	11072013-003.SSF	399440.3921	18608
722113.85	4294318.026	9352	07-Nov-13	11072013-003.SSF	399441.49	18609
722113.578	4294317.758	8905	07-Nov-13	11072013-003.SSF	399442.3569	18610
722113.42	4294317.224	8542	07-Nov-13	11072013-003.SSF	399443.5081	18611
722113.391	4294316.733	8509	07-Nov-13	11072013-003.SSF	399444.3669	18612
722113.523	4294316.332	8739	07-Nov-13	11072013-003.SSF	399445.531	18613
722113.468	4294316.295	8320	07-Nov-13	11072013-003.SSF	399446.439	18614

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722113.318	4294316.468	7972	07-Nov-13	11072013-003.SSF	399447.5259	18615
722113.369	4294316.609	8077	07-Nov-13	11072013-003.SSF	399448.4319	18616
722113.448	4294316.578	8436	07-Nov-13	11072013-003.SSF	399449.5439	18617
722113.466	4294316.603	8210	07-Nov-13	11072013-003.SSF	399450.4751	18618
722113.523	4294316.715	8225	07-Nov-13	11072013-003.SSF	399451.51	18619
722113.496	4294316.66	8609	07-Nov-13	11072013-003.SSF	399452.4871	18620
722113.425	4294316.551	9073	07-Nov-13	11072013-003.SSF	399453.5569	18621
722113.451	4294316.539	8936	07-Nov-13	11072013-003.SSF	399454.4041	18622
722113.472	4294316.63	8889	07-Nov-13	11072013-003.SSF	399455.5061	18623
722113.553	4294316.741	8435	07-Nov-13	11072013-003.SSF	399456.4619	18624
722113.649	4294316.936	8509	07-Nov-13	11072013-003.SSF	399457.5439	18625
722113.562	4294317.168	8409	07-Nov-13	11072013-003.SSF	399458.481	18626
722113.56	4294317.35	8465	07-Nov-13	11072013-003.SSF	399459.5291	18627
722113.645	4294317.363	8121	07-Nov-13	11072013-003.SSF	399460.449	18628
722113.677	4294317.357	9053	07-Nov-13	11072013-003.SSF	399461.489	18629
722113.654	4294317.453	9075	07-Nov-13	11072013-003.SSF	399462.4319	18630
722113.496	4294317.451	8412	07-Nov-13	11072013-003.SSF	399463.478	18631
722113.274	4294317.434	8249	07-Nov-13	11072013-003.SSF	399464.4131	18632
722113.333	4294317.717	8007	07-Nov-13	11072013-003.SSF	399465.4451	18633
722113.765	4294318.202	8299	07-Nov-13	11072013-003.SSF	399466.3579	18634
722114.428	4294318.85	8066	07-Nov-13	11072013-003.SSF	399467.4839	18635
722114.85	4294319.188	7964	07-Nov-13	11072013-003.SSF	399468.4009	18636
722114.92	4294319.511	8275	07-Nov-13	11072013-003.SSF	399469.522	18637
722114.489	4294320.02	8052	07-Nov-13	11072013-003.SSF	399470.4399	18638
722114.019	4294320.821	7807	07-Nov-13	11072013-003.SSF	399471.458	18639
722114.222	4294321.57	8336	07-Nov-13	11072013-003.SSF	399472.3999	18640
722115.171	4294322.28	8251	07-Nov-13	11072013-003.SSF	399473.4441	18641
722116.276	4294322.672	8496	07-Nov-13	11072013-003.SSF	399474.3611	18642
722117.318	4294322.597	8199	07-Nov-13	11072013-003.SSF	399475.4341	18643
722117.708	4294322.014	8039	07-Nov-13	11072013-003.SSF	399476.3879	18644
722117.995	4294321.135	7897	07-Nov-13	11072013-003.SSF	399477.406	18645
722118.351	4294320.559	8177	07-Nov-13	11072013-003.SSF	399478.3411	18646
722118.587	4294320.594	8432	07-Nov-13	11072013-003.SSF	399479.4231	18647
722118.887	4294320.643	8020	07-Nov-13	11072013-003.SSF	399480.395	18648
722119.27	4294320.125	8036	07-Nov-13	11072013-003.SSF	399481.4399	18649
722119.624	4294319.428	7970	07-Nov-13	11072013-003.SSF	399482.3931	18650
722119.892	4294318.968	8466	07-Nov-13	11072013-003.SSF	399483.5071	18651
722120.033	4294318.878	8399	07-Nov-13	11072013-003.SSF	399484.3311	18652
722120.529	4294318.546	8580	07-Nov-13	11072013-003.SSF	399485.439	18653
722120.892	4294317.73	8238	07-Nov-13	11072013-003.SSF	399486.446	18654
722121.008	4294317.012	7394	07-Nov-13	11072013-003.SSF	399487.5029	18655
722121.067	4294316.825	7481	07-Nov-13	11072013-003.SSF	399488.4199	18656
722121.187	4294316.833	7778	07-Nov-13	11072013-003.SSF	399489.4341	18657
722121.226	4294316.818	7810	07-Nov-13	11072013-003.SSF	399490.342	18658
722121.129	4294316.689	8023	07-Nov-13	11072013-003.SSF	399491.4529	18659
722121.21	4294316.666	8653	07-Nov-13	11072013-003.SSF	399492.354	18660
722121.37	4294316.72	8640	07-Nov-13	11072013-003.SSF	399493.3979	18661

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722121.463	4294316.752	8355	07-Nov-13	11072013-003.SSF	399494.332	18662
722121.595	4294316.729	8637	07-Nov-13	11072013-003.SSF	399495.4451	18663
722121.482	4294316.565	7881	07-Nov-13	11072013-003.SSF	399496.3259	18664
722121.067	4294315.997	7845	07-Nov-13	11072013-003.SSF	399497.479	18665
722120.804	4294315.182	7345	07-Nov-13	11072013-003.SSF	399498.3811	18666
722120.284	4294314.217	5872	07-Nov-13	11072013-003.SSF	399499.426	18667
722119.43	4294313.554	5680	07-Nov-13	11072013-003.SSF	399500.3479	18668
722118.025	4294312.914	5482	07-Nov-13	11072013-003.SSF	399501.5	18669
722116.896	4294312.461	5326	07-Nov-13	11072013-003.SSF	399502.4341	18670
722115.848	4294311.845	5313	07-Nov-13	11072013-003.SSF	399503.4509	18671
722114.854	4294311.024	5463	07-Nov-13	11072013-003.SSF	399504.4331	18672
722113.713	4294310.16	5803	07-Nov-13	11072013-003.SSF	399505.4851	18673
722112.747	4294309.655	6384	07-Nov-13	11072013-003.SSF	399506.364	18674
722111.517	4294309.292	5916	07-Nov-13	11072013-003.SSF	399507.4309	18675
722110.289	4294309.053	5690	07-Nov-13	11072013-003.SSF	399508.416	18676
722109.012	4294308.702	5803	07-Nov-13	11072013-003.SSF	399509.48	18677
722106.876	4294307.454	6093	07-Nov-13	11072013-003.SSF	399511.4929	18679
722105.853	4294306.779	6105	07-Nov-13	11072013-003.SSF	399512.3931	18680
722104.688	4294306.105	5541	07-Nov-13	11072013-003.SSF	399513.4231	18681
722103.628	4294305.712	5787	07-Nov-13	11072013-003.SSF	399514.4331	18682
722102.441	4294305.662	5580	07-Nov-13	11072013-003.SSF	399515.468	18683
722101.232	4294305.748	5238	07-Nov-13	11072013-003.SSF	399516.376	18684
722099.752	4294305.762	5092	07-Nov-13	11072013-003.SSF	399517.4871	18685
722098.689	4294305.582	5384	07-Nov-13	11072013-003.SSF	399518.373	18686
722097.482	4294305.178	5623	07-Nov-13	11072013-003.SSF	399519.4231	18687
722096.327	4294304.715	5795	07-Nov-13	11072013-003.SSF	399520.3921	18688
722095.161	4294304.194	5570	07-Nov-13	11072013-003.SSF	399521.3879	18689
722094.118	4294303.709	5503	07-Nov-13	11072013-003.SSF	399522.322	18690
722092.883	4294303.13	5495	07-Nov-13	11072013-003.SSF	399523.4451	18691
722091.999	4294302.597	5708	07-Nov-13	11072013-003.SSF	399524.345	18692
722091.12	4294301.754	5618	07-Nov-13	11072013-003.SSF	399525.5381	18693
722090.816	4294301.066	5283	07-Nov-13	11072013-003.SSF	399526.4451	18694
722090.781	4294300.445	4629	07-Nov-13	11072013-003.SSF	399527.512	18695
722090.822	4294300.36	4441	07-Nov-13	11072013-003.SSF	399528.448	18696
722090.865	4294300.557	4110	07-Nov-13	11072013-003.SSF	399529.4771	18697
722090.894	4294300.633	4089	07-Nov-13	11072013-003.SSF	399530.396	18698
722090.918	4294300.625	4415	07-Nov-13	11072013-003.SSF	399531.4319	18699
722090.897	4294300.619	4411	07-Nov-13	11072013-003.SSF	399532.323	18700
722090.83	4294300.599	4206	07-Nov-13	11072013-003.SSF	399533.439	18701
722090.8	4294300.656	4001	07-Nov-13	11072013-003.SSF	399534.3201	18702
722090.769	4294300.835	4103	07-Nov-13	11072013-003.SSF	399535.489	18703
722090.784	4294300.936	4070	07-Nov-13	11072013-003.SSF	399536.356	18704
722090.795	4294301.013	4284	07-Nov-13	11072013-003.SSF	399537.4751	18705
722090.839	4294301.04	3715	07-Nov-13	11072013-003.SSF	399538.3779	18706
722091.131	4294301.155	3484	07-Nov-13	11072013-003.SSF	399539.4839	18707
722091.594	4294301.548	3497	07-Nov-13	11072013-003.SSF	399540.459	18708
722091.837	4294301.885	3535	07-Nov-13	11072013-003.SSF	399541.4829	18709

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722091.246	4294301.758	4355	07-Nov-13	11072013-003.SSF	399543.4929	18711
722091.109	4294301.793	4032	07-Nov-13	11072013-003.SSF	399544.3799	18712
722091.118	4294301.949	3806	07-Nov-13	11072013-003.SSF	399545.438	18713
722091.093	4294302.071	4173	07-Nov-13	11072013-003.SSF	399546.4021	18714
722090.992	4294302.154	4035	07-Nov-13	11072013-003.SSF	399547.416	18715
722090.843	4294302.146	4054	07-Nov-13	11072013-003.SSF	399548.4131	18716
722090.727	4294302.212	4125	07-Nov-13	11072013-003.SSF	399549.4819	18717
722090.668	4294302.232	4285	07-Nov-13	11072013-003.SSF	399550.376	18718
722090.605	4294302.359	4098	07-Nov-13	11072013-003.SSF	399551.4629	18719
722090.546	4294302.434	4007	07-Nov-13	11072013-003.SSF	399552.3811	18720
722090.484	4294302.375	3911	07-Nov-13	11072013-003.SSF	399553.4719	18721
722090.451	4294302.452	4030	07-Nov-13	11072013-003.SSF	399554.395	18722
722090.424	4294302.519	4059	07-Nov-13	11072013-003.SSF	399555.459	18723
722090.42	4294302.566	4106	07-Nov-13	11072013-003.SSF	399556.3789	18724
722090.424	4294302.591	4169	07-Nov-13	11072013-003.SSF	399557.5281	18725
722090.419	4294302.615	4213	07-Nov-13	11072013-003.SSF	399558.3411	18726
722090.414	4294302.659	3922	07-Nov-13	11072013-003.SSF	399559.4419	18727
722090.402	4294302.653	3526	07-Nov-13	11072013-003.SSF	399560.3931	18728
722090.389	4294302.624	3716	07-Nov-13	11072013-003.SSF	399561.468	18729
722090.381	4294302.622	3545	07-Nov-13	11072013-003.SSF	399562.325	18730
722090.394	4294302.652	3996	07-Nov-13	11072013-003.SSF	399563.4409	18731
722126.224	4294316.585	3919	07-Nov-13	11072013-003.SSF	400372.0759	18732
722126.207	4294316.74	3689	07-Nov-13	11072013-003.SSF	400373.1799	18733
722126.176	4294316.841	4017	07-Nov-13	11072013-003.SSF	400374.199	18734
722126.149	4294316.935	4015	07-Nov-13	11072013-003.SSF	400375.197	18735
722126.146	4294316.994	4171	07-Nov-13	11072013-003.SSF	400376.114	18736
722126.149	4294317.097	3733	07-Nov-13	11072013-003.SSF	400377.2351	18737
722126.158	4294317.147	3960	07-Nov-13	11072013-003.SSF	400378.1169	18738
722126.162	4294317.13	3907	07-Nov-13	11072013-003.SSF	400379.1699	18739
722126.163	4294317.067	4110	07-Nov-13	11072013-003.SSF	400380.123	18740
722126.145	4294317.162	4172	07-Nov-13	11072013-003.SSF	400381.1689	18741
722126.144	4294317.233	4139	07-Nov-13	11072013-003.SSF	400382.1631	18742
722126.172	4294317.346	3933	07-Nov-13	11072013-003.SSF	400383.175	18743
722126.196	4294317.47	4207	07-Nov-13	11072013-003.SSF	400384.085	18744
722126.207	4294317.446	3911	07-Nov-13	11072013-003.SSF	400385.303	18745
722126.202	4294317.398	4135	07-Nov-13	11072013-003.SSF	400386.144	18746
722126.204	4294317.349	4261	07-Nov-13	11072013-003.SSF	400387.293	18747
722126.219	4294317.339	4271	07-Nov-13	11072013-003.SSF	400388.189	18748
722126.248	4294317.264	4120	07-Nov-13	11072013-003.SSF	400389.321	18749
722126.294	4294317.096	4140	07-Nov-13	11072013-003.SSF	400390.1689	18750
722126.279	4294317.091	4383	07-Nov-13	11072013-003.SSF	400391.2051	18751
722126.263	4294317.059	4218	07-Nov-13	11072013-003.SSF	400392.062	18752
722126.276	4294316.917	3941	07-Nov-13	11072013-003.SSF	400393.2141	18753
722126.33	4294316.737	4054	07-Nov-13	11072013-003.SSF	400394.27	18754
722126.276	4294316.74	3990	07-Nov-13	11072013-003.SSF	400395.2959	18755
722126.247	4294316.694	3894	07-Nov-13	11072013-003.SSF	400396.189	18756

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722126.249	4294316.442	3878	07-Nov-13	11072013-003.SSF	400397.2639	18757
722126.192	4294316.417	4221	07-Nov-13	11072013-003.SSF	400398.1069	18758
722126.163	4294316.34	4579	07-Nov-13	11072013-003.SSF	400399.27	18759
722126.142	4294316.415	4578	07-Nov-13	11072013-003.SSF	400400.1169	18760
722126.193	4294316.521	4188	07-Nov-13	11072013-003.SSF	400401.2549	18761
722126.325	4294316.55	4268	07-Nov-13	11072013-003.SSF	400402.1689	18762
722126.348	4294316.82	4373	07-Nov-13	11072013-003.SSF	400403.1631	18763
722126.263	4294316.855	4432	07-Nov-13	11072013-003.SSF	400404.208	18764
722126.362	4294316.711	4301	07-Nov-13	11072013-003.SSF	400405.1121	18765
722127.016	4294316.611	4286	07-Nov-13	11072013-003.SSF	400406.0549	18766
722127.449	4294316.445	4166	07-Nov-13	11072013-003.SSF	400407.1379	18767
722127.468	4294316.17	3941	07-Nov-13	11072013-003.SSF	400408.1079	18768
722127.468	4294316.017	4189	07-Nov-13	11072013-003.SSF	400409.1189	18769
722127.464	4294315.924	3976	07-Nov-13	11072013-003.SSF	400410.082	18770
722127.476	4294315.868	4246	07-Nov-13	11072013-003.SSF	400411.2229	18771
722127.328	4294315.942	4076	07-Nov-13	11072013-003.SSF	400412.094	18772
722127.229	4294316.038	4160	07-Nov-13	11072013-003.SSF	400413.1299	18773
722127.325	4294315.933	3922	07-Nov-13	11072013-003.SSF	400414.0779	18774
722127.285	4294315.85	4021	07-Nov-13	11072013-003.SSF	400415.2319	18775
722127.188	4294315.901	4249	07-Nov-13	11072013-003.SSF	400416.103	18776
722127.081	4294315.931	4738	07-Nov-13	11072013-003.SSF	400417.2261	18777
722126.949	4294315.875	4637	07-Nov-13	11072013-003.SSF	400418.2319	18778
722126.853	4294315.869	4588	07-Nov-13	11072013-003.SSF	400419.1851	18779
722126.832	4294315.889	4688	07-Nov-13	11072013-003.SSF	400420.0591	18780
722126.853	4294315.807	4632	07-Nov-13	11072013-003.SSF	400421.176	18781
722126.874	4294315.707	4375	07-Nov-13	11072013-003.SSF	400422.1279	18782
722126.854	4294315.722	4441	07-Nov-13	11072013-003.SSF	400423.2009	18783
722126.828	4294315.757	4005	07-Nov-13	11072013-003.SSF	400424.0161	18784
722126.805	4294315.755	4150	07-Nov-13	11072013-003.SSF	400425.252	18785
722126.196	4294315.863	3991	07-Nov-13	11072013-003.SSF	400429.228	18786
722126.196	4294315.806	3910	07-Nov-13	11072013-003.SSF	400430.064	18787
722126.427	4294315.949	3947	07-Nov-13	11072013-003.SSF	400431.248	18788
722126.426	4294316.066	4462	07-Nov-13	11072013-003.SSF	400432.1931	18789
722126.121	4294316.041	4940	07-Nov-13	11072013-003.SSF	400433.1721	18790
722125.697	4294315.961	4856	07-Nov-13	11072013-003.SSF	400434.2319	18791
722125.158	4294315.763	4884	07-Nov-13	11072013-003.SSF	400435.26	18792
722124.478	4294315.688	4960	07-Nov-13	11072013-003.SSF	400436.2029	18793
722123.471	4294315.885	5385	07-Nov-13	11072013-003.SSF	400437.3469	18794
722122.751	4294315.87	5384	07-Nov-13	11072013-003.SSF	400438.175	18795
722121.837	4294315.496	5181	07-Nov-13	11072013-003.SSF	400439.25	18796
722120.906	4294315.358	5764	07-Nov-13	11072013-003.SSF	400440.147	18797
722119.689	4294315.697	6790	07-Nov-13	11072013-003.SSF	400441.2571	18798
722119.073	4294316.15	6892	07-Nov-13	11072013-003.SSF	400442.0869	18799
722118.433	4294316.903	7407	07-Nov-13	11072013-003.SSF	400443.2251	18800
722117.777	4294317.264	7781	07-Nov-13	11072013-003.SSF	400444.134	18801
722117.441	4294317.52	7249	07-Nov-13	11072013-003.SSF	400445.293	18802
722117.85	4294317.72	7273	07-Nov-13	11072013-003.SSF	400446.041	18803

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722119.184	4294317.809	7638	07-Nov-13	11072013-003.SSF	400447.1489	18804
722119.922	4294317.727	7754	07-Nov-13	11072013-003.SSF	400448.0649	18805
722120.239	4294317.72	7316	07-Nov-13	11072013-003.SSF	400449.1931	18806
722120.149	4294317.996	7933	07-Nov-13	11072013-003.SSF	400450.1589	18807
722119.757	4294318.343	8340	07-Nov-13	11072013-003.SSF	400451.1689	18808
722119.344	4294318.741	8208	07-Nov-13	11072013-003.SSF	400452.1399	18809
722118.737	4294319.182	8172	07-Nov-13	11072013-003.SSF	400453.323	18810
722118.509	4294319.518	8259	07-Nov-13	11072013-003.SSF	400454.073	18811
722118.092	4294319.777	8693	07-Nov-13	11072013-003.SSF	400455.2859	18812
722117.463	4294320.13	8767	07-Nov-13	11072013-003.SSF	400456.2109	18813
722116.748	4294320.556	8899	07-Nov-13	11072013-003.SSF	400457.217	18814
722116.293	4294320.833	8313	07-Nov-13	11072013-003.SSF	400458.104	18815
722115.845	4294320.912	8066	07-Nov-13	11072013-003.SSF	400459.3701	18816
722115.478	4294320.819	8062	07-Nov-13	11072013-003.SSF	400460.1011	18817
722114.54	4294320.768	8660	07-Nov-13	11072013-003.SSF	400462.1819	18819
722114.396	4294320.885	9033	07-Nov-13	11072013-003.SSF	400463.165	18820
722113.763	4294320.767	9071	07-Nov-13	11072013-003.SSF	400464.189	18821
722113.15	4294320.582	9040	07-Nov-13	11072013-003.SSF	400465.262	18822
722113.058	4294320.287	8662	07-Nov-13	11072013-003.SSF	400466.0869	18823
722113.459	4294320.033	8757	07-Nov-13	11072013-003.SSF	400467.2729	18824
722114.121	4294320.036	8983	07-Nov-13	11072013-003.SSF	400468.124	18825
722115.36	4294319.741	8856	07-Nov-13	11072013-003.SSF	400469.3411	18826
722116.107	4294319.517	8874	07-Nov-13	11072013-003.SSF	400470.105	18827
722116.949	4294319.209	8816	07-Nov-13	11072013-003.SSF	400471.304	18828
722117.277	4294319.081	8656	07-Nov-13	11072013-003.SSF	400472.0591	18829
722117.606	4294319.098	8424	07-Nov-13	11072013-003.SSF	400473.2241	18830
722117.889	4294319.135	7933	07-Nov-13	11072013-003.SSF	400474.085	18831
722118.575	4294319.049	8220	07-Nov-13	11072013-003.SSF	400475.1931	18832
722119.398	4294318.716	8351	07-Nov-13	11072013-003.SSF	400476.1399	18833
722120.173	4294318.31	7975	07-Nov-13	11072013-003.SSF	400477.1311	18834
722120.846	4294318.026	7876	07-Nov-13	11072013-003.SSF	400478.095	18835
722120.668	4294317.258	7925	07-Nov-13	11072013-003.SSF	400479.155	18836
722119.766	4294316.533	7893	07-Nov-13	11072013-003.SSF	400480.0471	18837
722118.74	4294316.495	9007	07-Nov-13	11072013-003.SSF	400481.167	18838
722118.181	4294316.945	8644	07-Nov-13	11072013-003.SSF	400482.062	18839
722117.638	4294317.465	8154	07-Nov-13	11072013-003.SSF	400483.2419	18840
722117.233	4294317.786	8502	07-Nov-13	11072013-003.SSF	400484.145	18841
722116.664	4294318.073	8524	07-Nov-13	11072013-003.SSF	400485.2561	18842
722116.255	4294318.342	8492	07-Nov-13	11072013-003.SSF	400486.175	18843
722115.827	4294318.575	8729	07-Nov-13	11072013-003.SSF	400487.2981	18844
722115.445	4294318.791	9028	07-Nov-13	11072013-003.SSF	400488.1951	18845
722114.765	4294318.966	8775	07-Nov-13	11072013-003.SSF	400489.2639	18846
722114.124	4294319.106	8341	07-Nov-13	11072013-003.SSF	400490.2581	18847
722113.528	4294319.264	8727	07-Nov-13	11072013-003.SSF	400491.197	18848
722113.031	4294319.493	8733	07-Nov-13	11072013-003.SSF	400492.0681	18849
722112.414	4294319.74	9097	07-Nov-13	11072013-003.SSF	400493.166	18850
722111.965	4294319.877	9295	07-Nov-13	11072013-003.SSF	400494.175	18851

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722111.708	4294319.775	9481	07-Nov-13	11072013-003.SSF	400495.271	18852
722111.631	4294319.706	9150	07-Nov-13	11072013-003.SSF	400496.137	18853
722111.705	4294319.821	9249	07-Nov-13	11072013-003.SSF	400497.2571	18854
722111.824	4294319.758	8938	07-Nov-13	11072013-003.SSF	400498.082	18855
722112.069	4294319.491	9167	07-Nov-13	11072013-003.SSF	400499.2791	18856
722112.168	4294319.338	9529	07-Nov-13	11072013-003.SSF	400500.0791	18857
722111.918	4294319.376	9027	07-Nov-13	11072013-003.SSF	400501.0869	18858
722111.694	4294319.491	9480	07-Nov-13	11072013-003.SSF	400502.0959	18859
722111.718	4294319.516	8970	07-Nov-13	11072013-003.SSF	400503.24	18860
722111.764	4294319.505	8360	07-Nov-13	11072013-003.SSF	400504.0471	18861
722111.892	4294319.426	8130	07-Nov-13	11072013-003.SSF	400505.2561	18862
722111.838	4294319.628	8361	07-Nov-13	11072013-003.SSF	400506.1069	18863
722111.817	4294319.834	8775	07-Nov-13	11072013-003.SSF	400507.2581	18864
722111.958	4294319.946	8408	07-Nov-13	11072013-003.SSF	400508.1021	18865
722111.992	4294320.236	8539	07-Nov-13	11072013-003.SSF	400509.271	18866
722111.983	4294320.227	7961	07-Nov-13	11072013-003.SSF	400510.0669	18867
722112.306	4294319.894	8423	07-Nov-13	11072013-003.SSF	400511.218	18868
722112.403	4294319.424	8780	07-Nov-13	11072013-003.SSF	400512.042	18869
722112.778	4294318.745	8854	07-Nov-13	11072013-003.SSF	400513.0811	18870
722113.082	4294318.425	8880	07-Nov-13	11072013-003.SSF	400514.0181	18871
722112.92	4294318.162	8767	07-Nov-13	11072013-003.SSF	400515.2739	18872
722112.935	4294317.968	8111	07-Nov-13	11072013-003.SSF	400516.094	18873
722113.297	4294317.86	8553	07-Nov-13	11072013-003.SSF	400517.2649	18874
722113.654	4294317.559	7968	07-Nov-13	11072013-003.SSF	400518.113	18875
722114.098	4294317.085	9117	07-Nov-13	11072013-003.SSF	400519.2749	18876
722114.312	4294316.756	8286	07-Nov-13	11072013-003.SSF	400520.1289	18877
722114.666	4294316.496	8156	07-Nov-13	11072013-003.SSF	400521.178	18878
722115.234	4294316.272	8210	07-Nov-13	11072013-003.SSF	400522.1069	18879
722115.962	4294316.105	8450	07-Nov-13	11072013-003.SSF	400523.1851	18880
722116.372	4294315.851	8046	07-Nov-13	11072013-003.SSF	400524.1321	18881
722116.747	4294315.583	8058	07-Nov-13	11072013-003.SSF	400525.23	18882
722117.19	4294315.455	7660	07-Nov-13	11072013-003.SSF	400526.1021	18883
722117.61	4294315.231	7976	07-Nov-13	11072013-003.SSF	400527.2371	18884
722117.747	4294314.951	7959	07-Nov-13	11072013-003.SSF	400528.1421	18885
722117.591	4294314.2	7754	07-Nov-13	11072013-003.SSF	400529.325	18886
722117.367	4294313.974	7414	07-Nov-13	11072013-003.SSF	400530.0659	18887
722116.833	4294314.386	7245	07-Nov-13	11072013-003.SSF	400531.177	18888
722116.448	4294314.702	7375	07-Nov-13	11072013-003.SSF	400532.043	18889
722115.983	4294314.966	7366	07-Nov-13	11072013-003.SSF	400533.2629	18890
722115.598	4294315.252	8013	07-Nov-13	11072013-003.SSF	400534.1431	18891
722115.059	4294315.738	7762	07-Nov-13	11072013-003.SSF	400535.2	18892
722114.499	4294316.066	8124	07-Nov-13	11072013-003.SSF	400536.073	18893
722113.657	4294316.776	8192	07-Nov-13	11072013-003.SSF	400537.323	18894
722113.218	4294317.141	8568	07-Nov-13	11072013-003.SSF	400538.0549	18895
722112.728	4294317.641	9049	07-Nov-13	11072013-003.SSF	400539.3069	18896
722112.44	4294317.863	8937	07-Nov-13	11072013-003.SSF	400540.0649	18897
722111.855	4294318.314	9167	07-Nov-13	11072013-003.SSF	400541.156	18898

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722111.633	4294318.653	8959	07-Nov-13	11072013-003.SSF	400542.1101	18899
722111.941	4294318.438	8894	07-Nov-13	11072013-003.SSF	400543.1599	18900
722112.254	4294317.88	8363	07-Nov-13	11072013-003.SSF	400544.113	18901
722112.465	4294317.277	8431	07-Nov-13	11072013-003.SSF	400545.155	18902
722112.606	4294316.823	8755	07-Nov-13	11072013-003.SSF	400546.073	18903
722112.952	4294316.439	8832	07-Nov-13	11072013-003.SSF	400547.2561	18904
722113.168	4294316.299	8110	07-Nov-13	11072013-003.SSF	400548.0869	18905
722113.488	4294315.994	8484	07-Nov-13	11072013-003.SSF	400549.251	18906
722113.863	4294315.686	8732	07-Nov-13	11072013-003.SSF	400550.0779	18907
722114.112	4294315.363	8722	07-Nov-13	11072013-003.SSF	400551.2571	18908
722114.261	4294315.383	8341	07-Nov-13	11072013-003.SSF	400552.022	18909
722114.319	4294315.18	8246	07-Nov-13	11072013-003.SSF	400553.157	18910
722114.684	4294314.995	7481	07-Nov-13	11072013-003.SSF	400554.002	18911
722115.347	4294314.376	7755	07-Nov-13	11072013-003.SSF	400555.321	18912
722115.363	4294313.919	7250	07-Nov-13	11072013-003.SSF	400556.103	18913
722114.873	4294313.72	7715	07-Nov-13	11072013-003.SSF	400557.2041	18914
722114.533	4294313.873	7910	07-Nov-13	11072013-003.SSF	400558.072	18915
722114.149	4294314.218	7982	07-Nov-13	11072013-003.SSF	400559.116	18916
722113.775	4294314.747	8150	07-Nov-13	11072013-003.SSF	400560.198	18917
722113.266	4294315.398	8544	07-Nov-13	11072013-003.SSF	400561.2859	18918
722112.964	4294315.904	8421	07-Nov-13	11072013-003.SSF	400562.136	18919
722112.564	4294316.498	8569	07-Nov-13	11072013-003.SSF	400563.3081	18920
722112.241	4294316.978	8615	07-Nov-13	11072013-003.SSF	400564.1221	18921
722111.92	4294317.616	8341	07-Nov-13	11072013-003.SSF	400565.158	18922
722111.917	4294318.267	8216	07-Nov-13	11072013-003.SSF	400566.1179	18923
722112.501	4294318.591	8627	07-Nov-13	11072013-003.SSF	400567.072	18924
722112.803	4294318.072	8685	07-Nov-13	11072013-003.SSF	400567.95	18925
722113.242	4294317.215	8523	07-Nov-13	11072013-003.SSF	400569.0811	18926
722114.133	4294316.812	8221	07-Nov-13	11072013-003.SSF	400570.051	18927
722115.194	4294316.548	8172	07-Nov-13	11072013-003.SSF	400571.1201	18928
722115.918	4294315.962	8219	07-Nov-13	11072013-003.SSF	400572.0811	18929
722116.776	4294315.325	7953	07-Nov-13	11072013-003.SSF	400573.0901	18930
722117.694	4294315.017	7653	07-Nov-13	11072013-003.SSF	400574.0259	18931
722119.277	4294314.569	7402	07-Nov-13	11072013-003.SSF	400575.261	18932
722120.279	4294314.319	6451	07-Nov-13	11072013-003.SSF	400576.1699	18933
722121.189	4294314.27	5796	07-Nov-13	11072013-003.SSF	400577.187	18934
722122.099	4294314.524	5540	07-Nov-13	11072013-003.SSF	400578.115	18935
722122.951	4294315.159	5891	07-Nov-13	11072013-003.SSF	400579.126	18936
722123.744	4294315.785	5489	07-Nov-13	11072013-003.SSF	400580.0601	18937
722124.358	4294315.785	5495	07-Nov-13	11072013-003.SSF	400581.2529	18938
722124.369	4294315.403	5261	07-Nov-13	11072013-003.SSF	400582.1531	18939
722124.19	4294315.25	4991	07-Nov-13	11072013-003.SSF	400583.1609	18940
722124.097	4294315.337	4772	07-Nov-13	11072013-003.SSF	400584.0359	18941
722124.104	4294315.338	4799	07-Nov-13	11072013-003.SSF	400585.2649	18942
722124.109	4294315.313	4927	07-Nov-13	11072013-003.SSF	400586.1179	18943
722124.038	4294315.223	4601	07-Nov-13	11072013-003.SSF	400587.271	18944
722123.919	4294315.218	4268	07-Nov-13	11072013-003.SSF	400588.1011	18945

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722123.884	4294315.285	4628	07-Nov-13	11072013-003.SSF	400589.269	18946
722123.861	4294315.401	4418	07-Nov-13	11072013-003.SSF	400590.0569	18947
722123.675	4294315.53	4578	07-Nov-13	11072013-003.SSF	400591.0869	18948
722123.522	4294315.571	4667	07-Nov-13	11072013-003.SSF	400592.0691	18949
722123.544	4294315.572	4335	07-Nov-13	11072013-003.SSF	400593.2061	18950
722123.615	4294315.633	4421	07-Nov-13	11072013-003.SSF	400594.0459	18951
722123.368	4294315.768	4516	07-Nov-13	11072013-003.SSF	400595.126	18952
722123.282	4294315.812	4730	07-Nov-13	11072013-003.SSF	400596.082	18953
722123.542	4294316.299	4468	07-Nov-13	11072013-003.SSF	400597.1609	18954
722123.474	4294316.672	4538	07-Nov-13	11072013-003.SSF	400598.011	18955
722124.007	4294316.538	4413	07-Nov-13	11072013-003.SSF	400599.2141	18956
722124.193	4294316.246	3892	07-Nov-13	11072013-003.SSF	400600.0891	18957
722124.3	4294316.057	3959	07-Nov-13	11072013-003.SSF	400601.208	18958
722124.304	4294315.993	4439	07-Nov-13	11072013-003.SSF	400602.0991	18959
722124.248	4294316.023	4590	07-Nov-13	11072013-003.SSF	400603.217	18960
722124.203	4294316.051	4419	07-Nov-13	11072013-003.SSF	400604.0381	18961
722124.214	4294315.955	4495	07-Nov-13	11072013-003.SSF	400605.1001	18962
722124.221	4294315.854	4276	07-Nov-13	11072013-003.SSF	400606.0371	18963
722124.364	4294315.64	4633	07-Nov-13	11072013-003.SSF	400607.1621	18964
722124.417	4294315.432	4481	07-Nov-13	11072013-003.SSF	400608.051	18965
722124.392	4294315.211	4523	07-Nov-13	11072013-003.SSF	400609.2339	18966
722124.328	4294315.074	4321	07-Nov-13	11072013-003.SSF	400610.1311	18967
722124.066	4294314.738	4568	07-Nov-13	11072013-003.SSF	400611.1919	18968
722123.841	4294314.522	4519	07-Nov-13	11072013-003.SSF	400612.113	18969
722123.614	4294314.387	4230	07-Nov-13	11072013-003.SSF	400613.0569	18970
722123.351	4294314.313	4051	07-Nov-13	11072013-003.SSF	400613.988	18971
722123.183	4294314.247	4281	07-Nov-13	11072013-003.SSF	400615.1631	18972
722122.977	4294314.22	4410	07-Nov-13	11072013-003.SSF	400616.094	18973
722122.692	4294314.189	4708	07-Nov-13	11072013-003.SSF	400617.1589	18974
722122.52	4294314.248	4748	07-Nov-13	11072013-003.SSF	400618.0681	18975
722122.868	4294314.635	4553	07-Nov-13	11072013-003.SSF	400619.1699	18976
722123.036	4294314.72	4271	07-Nov-13	11072013-003.SSF	400620.0081	18977
722123.476	4294314.781	4225	07-Nov-13	11072013-003.SSF	400621.1599	18978
722123.464	4294314.842	4716	07-Nov-13	11072013-003.SSF	400622.0901	18979
722123.57	4294314.784	4483	07-Nov-13	11072013-003.SSF	400623.123	18980
722123.674	4294314.446	4494	07-Nov-13	11072013-003.SSF	400623.9609	18981
722123.555	4294314.122	4410	07-Nov-13	11072013-003.SSF	400625.241	18982
722123.594	4294314	4086	07-Nov-13	11072013-003.SSF	400626.0071	18983
722123.584	4294313.995	4263	07-Nov-13	11072013-003.SSF	400627.1589	18984
722124.491	4294314.679	4351	07-Nov-13	11072013-003.SSF	400783.177	18985
722124.447	4294314.585	4143	07-Nov-13	11072013-003.SSF	400783.9961	18986
722124.378	4294314.533	4062	07-Nov-13	11072013-003.SSF	400785.1021	18987
722124.295	4294314.477	3957	07-Nov-13	11072013-003.SSF	400785.9729	18988
722124.222	4294314.424	3906	07-Nov-13	11072013-003.SSF	400787.0129	18989
722124.227	4294314.395	3862	07-Nov-13	11072013-003.SSF	400787.908	18990
722124.205	4294314.281	4430	07-Nov-13	11072013-003.SSF	400788.9771	18991
722124.3	4294314.203	4456	07-Nov-13	11072013-003.SSF	400789.9109	18992

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722124.338	4294314.187	4787	07-Nov-13	11072013-003.SSF	400791.134	18993
722124.345	4294314.234	4912	07-Nov-13	11072013-003.SSF	400792.0759	18994
722125.206	4294314.669	4033	07-Nov-13	11072013-003.SSF	400799.998	18995
722125.131	4294314.706	4196	07-Nov-13	11072013-003.SSF	400801.0779	18996
722125.094	4294314.73	4228	07-Nov-13	11072013-003.SSF	400802.0591	18997
722125.107	4294314.703	4350	07-Nov-13	11072013-003.SSF	400803.072	18998
722125.134	4294314.697	4104	07-Nov-13	11072013-003.SSF	400804.002	18999
722125.17	4294314.715	3809	07-Nov-13	11072013-003.SSF	400805.0549	19000
722125.213	4294314.728	3777	07-Nov-13	11072013-003.SSF	400805.989	19001
722125.23	4294314.776	3939	07-Nov-13	11072013-003.SSF	400806.991	19002
722125.248	4294314.857	3776	07-Nov-13	11072013-003.SSF	400807.9929	19003
722125.023	4294315.175	3279	07-Nov-13	11072013-003.SSF	400808.9829	19004
722124.353	4294315.339	3824	07-Nov-13	11072013-003.SSF	400809.9851	19005
722123.551	4294315.58	3696	07-Nov-13	11072013-003.SSF	400811.0259	19006
722123.371	4294315.576	3781	07-Nov-13	11072013-003.SSF	400811.9231	19007
722123.402	4294315.379	4047	07-Nov-13	11072013-003.SSF	400812.9951	19008
722123.566	4294315.512	4256	07-Nov-13	11072013-003.SSF	400813.8921	19009
722123.741	4294315.75	4314	07-Nov-13	11072013-003.SSF	400815.061	19010
722123.749	4294315.728	4354	07-Nov-13	11072013-003.SSF	400815.9419	19011
722123.688	4294315.657	4121	07-Nov-13	11072013-003.SSF	400817.0381	19012
722123.737	4294315.625	4133	07-Nov-13	11072013-003.SSF	400818	19013
722123.927	4294315.59	4207	07-Nov-13	11072013-003.SSF	400819.0879	19014
722123.978	4294315.537	3806	07-Nov-13	11072013-003.SSF	400819.957	19015
722123.872	4294315.5	4541	07-Nov-13	11072013-003.SSF	400821.0471	19016
722124.048	4294315.709	4302	07-Nov-13	11072013-003.SSF	400822.094	19017
722124.192	4294315.829	4849	07-Nov-13	11072013-003.SSF	400823.137	19018
722124.136	4294315.755	4513	07-Nov-13	11072013-003.SSF	400823.9751	19019
722124.068	4294315.629	4406	07-Nov-13	11072013-003.SSF	400825.0681	19020
722124.145	4294315.541	4556	07-Nov-13	11072013-003.SSF	400825.9561	19021
722124.43	4294315.236	4310	07-Nov-13	11072013-003.SSF	400827.0779	19022
722124.465	4294315.183	4862	07-Nov-13	11072013-003.SSF	400828.0139	19023
722124.422	4294315.487	5217	07-Nov-13	11072013-003.SSF	400829.0601	19024
722123.752	4294315.788	5724	07-Nov-13	11072013-003.SSF	400830.0149	19025
722122.451	4294315.958	5942	07-Nov-13	11072013-003.SSF	400831.0769	19026
722121.485	4294316.175	5720	07-Nov-13	11072013-003.SSF	400831.9719	19027
722119.741	4294316.684	6337	07-Nov-13	11072013-003.SSF	400833.197	19028
722118.475	4294317.307	7307	07-Nov-13	11072013-003.SSF	400834.0911	19029
722117.39	4294318.059	7208	07-Nov-13	11072013-003.SSF	400835.0371	19030
722116.584	4294318.723	7579	07-Nov-13	11072013-003.SSF	400835.863	19031
722115.318	4294319.501	8066	07-Nov-13	11072013-003.SSF	400837.052	19032
722113.981	4294320.037	8287	07-Nov-13	11072013-003.SSF	400837.938	19033
722112.767	4294321.318	8824	07-Nov-13	11072013-003.SSF	400839.043	19034
722112.752	4294322.538	9021	07-Nov-13	11072013-003.SSF	400839.927	19035
722113.267	4294323.77	8794	07-Nov-13	11072013-003.SSF	400841.103	19036
722113.992	4294324.632	8171	07-Nov-13	11072013-003.SSF	400842.0681	19037
722114.889	4294325.536	8009	07-Nov-13	11072013-003.SSF	400842.9609	19038
722115.868	4294326.784	7947	07-Nov-13	11072013-003.SSF	400843.9551	19039

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722116.88	4294328.202	8213	07-Nov-13	11072013-003.SSF	400845.0681	19040
722117.804	4294329.187	8347	07-Nov-13	11072013-003.SSF	400846.0061	19041
722118.337	4294330.124	8287	07-Nov-13	11072013-003.SSF	400847.0391	19042
722118.276	4294330.877	8614	07-Nov-13	11072013-003.SSF	400847.9199	19043
722118.041	4294332.02	8955	07-Nov-13	11072013-003.SSF	400849.051	19044
722118.091	4294333.05	8517	07-Nov-13	11072013-003.SSF	400849.9929	19045
722117.878	4294333.968	8458	07-Nov-13	11072013-003.SSF	400851.1951	19046
722117.752	4294334.297	8928	07-Nov-13	11072013-003.SSF	400851.917	19047
722117.862	4294334.575	8659	07-Nov-13	11072013-003.SSF	400853.092	19048
722117.93	4294334.697	8786	07-Nov-13	11072013-003.SSF	400853.9109	19049
722117.996	4294335.023	9509	07-Nov-13	11072013-003.SSF	400855.1221	19050
722118.101	4294335.179	9286	07-Nov-13	11072013-003.SSF	400855.9529	19051
722118.139	4294335.185	9416	07-Nov-13	11072013-003.SSF	400857.0779	19052
722118.104	4294335.027	9346	07-Nov-13	11072013-003.SSF	400857.9861	19053
722118.035	4294334.725	9412	07-Nov-13	11072013-003.SSF	400859.0769	19054
722117.917	4294334.431	8669	07-Nov-13	11072013-003.SSF	400860	19055
722117.918	4294334.049	8716	07-Nov-13	11072013-003.SSF	400861.0039	19056
722118.192	4294333.616	9365	07-Nov-13	11072013-003.SSF	400861.9719	19057
722118.504	4294333.162	9175	07-Nov-13	11072013-003.SSF	400863.105	19058
722118.594	4294332.868	8798	07-Nov-13	11072013-003.SSF	400863.9829	19059
722118.761	4294332.502	8939	07-Nov-13	11072013-003.SSF	400865.002	19060
722118.77	4294332.123	8846	07-Nov-13	11072013-003.SSF	400866.0229	19061
722118.76	4294331.555	8943	07-Nov-13	11072013-003.SSF	400867.0691	19062
722118.573	4294331.037	8975	07-Nov-13	11072013-003.SSF	400867.97	19063
722118.083	4294330.649	9383	07-Nov-13	11072013-003.SSF	400869.0349	19064
722117.511	4294330.522	8848	07-Nov-13	11072013-003.SSF	400870.0801	19065
722117.484	4294330.595	8404	07-Nov-13	11072013-003.SSF	400871.0291	19066
722117.763	4294330.925	8395	07-Nov-13	11072013-003.SSF	400871.9819	19067
722118.16	4294331.219	9469	07-Nov-13	11072013-003.SSF	400873.032	19068
722118.348	4294331.509	8851	07-Nov-13	11072013-003.SSF	400873.9871	19069
722118.247	4294332.125	8766	07-Nov-13	11072013-003.SSF	400875.093	19070
722118.117	4294332.649	8516	07-Nov-13	11072013-003.SSF	400875.9341	19071
722117.959	4294333.085	7985	07-Nov-13	11072013-003.SSF	400877.062	19072
722117.882	4294333.284	8466	07-Nov-13	11072013-003.SSF	400877.8669	19073
722117.605	4294333.691	8820	07-Nov-13	11072013-003.SSF	400879.0901	19074
722117.534	4294334.031	9146	07-Nov-13	11072013-003.SSF	400879.927	19075
722117.554	4294334.395	8827	07-Nov-13	11072013-003.SSF	400880.9641	19076
722117.647	4294334.546	8835	07-Nov-13	11072013-003.SSF	400881.9009	19077
722117.692	4294334.657	9237	07-Nov-13	11072013-003.SSF	400882.9189	19078
722117.578	4294334.819	9726	07-Nov-13	11072013-003.SSF	400883.907	19079
722117.557	4294334.919	9468	07-Nov-13	11072013-003.SSF	400884.926	19080
722117.569	4294334.939	9368	07-Nov-13	11072013-003.SSF	400885.7991	19081
722117.576	4294334.971	9897	07-Nov-13	11072013-003.SSF	400886.8889	19082
722117.587	4294335.011	9347	07-Nov-13	11072013-003.SSF	400887.8479	19083
722117.592	4294335.049	9607	07-Nov-13	11072013-003.SSF	400888.8879	19084
722117.609	4294335.081	9379	07-Nov-13	11072013-003.SSF	400889.801	19085
722117.707	4294334.968	9978	07-Nov-13	11072013-003.SSF	400891.0359	19086

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722117.781	4294334.867	9498	07-Nov-13	11072013-003.SSF	400891.8411	19087
722117.697	4294334.782	9182	07-Nov-13	11072013-003.SSF	400892.97	19088
722117.652	4294334.534	8795	07-Nov-13	11072013-003.SSF	400893.8921	19089
722117.177	4294334.445	8569	07-Nov-13	11072013-003.SSF	400895.033	19090
722116.721	4294334.431	8540	07-Nov-13	11072013-003.SSF	400895.9451	19091
722116.673	4294334.48	8509	07-Nov-13	11072013-003.SSF	400897.116	19092
722116.93	4294334.315	8962	07-Nov-13	11072013-003.SSF	400898.988	19093
722117.244	4294333.77	8993	07-Nov-13	11072013-003.SSF	400899.8899	19094
722118.119	4294332.703	9048	07-Nov-13	11072013-003.SSF	400901.0471	19095
722118.542	4294331.919	9155	07-Nov-13	11072013-003.SSF	400901.9309	19096
722118.105	4294330.91	9912	07-Nov-13	11072013-003.SSF	400902.9939	19097
722117.318	4294330.089	9235	07-Nov-13	11072013-003.SSF	400903.8379	19098
722116.556	4294328.843	8975	07-Nov-13	11072013-003.SSF	400905.072	19099
722116.636	4294327.697	8723	07-Nov-13	11072013-003.SSF	400906.0149	19100
722116.835	4294326.516	8762	07-Nov-13	11072013-003.SSF	400907.0171	19101
722116.423	4294325.727	9158	07-Nov-13	11072013-003.SSF	400907.9661	19102
722115.507	4294325.103	8564	07-Nov-13	11072013-003.SSF	400909.0549	19103
722114.97	4294324.427	8253	07-Nov-13	11072013-003.SSF	400910.002	19104
722114.959	4294323.309	8885	07-Nov-13	11072013-003.SSF	400911.033	19105
722114.914	4294322.429	8538	07-Nov-13	11072013-003.SSF	400911.9861	19106
722114.692	4294321.901	8582	07-Nov-13	11072013-003.SSF	400913.043	19107
722114.871	4294321.444	8210	07-Nov-13	11072013-003.SSF	400913.8269	19108
722115.288	4294320.732	8833	07-Nov-13	11072013-003.SSF	400914.9451	19109
722115.338	4294320.14	9123	07-Nov-13	11072013-003.SSF	400915.8369	19110
722115.242	4294319.324	9377	07-Nov-13	11072013-003.SSF	400916.906	19111
722114.956	4294319.027	8589	07-Nov-13	11072013-003.SSF	400917.907	19112
722114.42	4294319.472	8529	07-Nov-13	11072013-003.SSF	400918.908	19113
722113.961	4294320.23	8652	07-Nov-13	11072013-003.SSF	400919.876	19114
722113.974	4294320.509	8362	07-Nov-13	11072013-003.SSF	400920.957	19115
722114.225	4294320.336	8813	07-Nov-13	11072013-003.SSF	400921.8831	19116
722114.319	4294320.338	8760	07-Nov-13	11072013-003.SSF	400922.988	19117
722114.351	4294320.378	8437	07-Nov-13	11072013-003.SSF	400923.8601	19118
722114.392	4294320.405	8121	07-Nov-13	11072013-003.SSF	400924.9839	19119
722114.419	4294320.425	8183	07-Nov-13	11072013-003.SSF	400925.825	19120
722114.441	4294320.45	8285	07-Nov-13	11072013-003.SSF	400926.8379	19121
722114.454	4294320.467	8253	07-Nov-13	11072013-003.SSF	400927.7539	19122
722114.463	4294320.476	8482	07-Nov-13	11072013-003.SSF	400928.8889	19123
722114.472	4294320.479	8633	07-Nov-13	11072013-003.SSF	400929.7649	19124
722114.487	4294320.484	8433	07-Nov-13	11072013-003.SSF	400930.9651	19125
722114.483	4294320.491	8509	07-Nov-13	11072013-003.SSF	400931.8569	19126
722114.471	4294320.505	8453	07-Nov-13	11072013-003.SSF	400933.0481	19127
722114.465	4294320.538	8490	07-Nov-13	11072013-003.SSF	400933.8049	19128
722114.464	4294320.574	8503	07-Nov-13	11072013-003.SSF	400934.9241	19129
722114.411	4294320.751	8593	07-Nov-13	11072013-003.SSF	400935.8491	19130
722114.296	4294321.106	8073	07-Nov-13	11072013-003.SSF	400936.9409	19131
722114.175	4294321.738	8051	07-Nov-13	11072013-003.SSF	400937.8811	19132
722114.092	4294322.777	8684	07-Nov-13	11072013-003.SSF	400938.9341	19133

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722114.384	4294323.643	8019	07-Nov-13	11072013-003.SSF	400939.8101	19134
722114.846	4294324.771	8141	07-Nov-13	11072013-003.SSF	400941.031	19135
722114.674	4294325.538	8726	07-Nov-13	11072013-003.SSF	400941.9609	19136
722114.224	4294326.204	8756	07-Nov-13	11072013-003.SSF	400942.9929	19137
722114.099	4294326.534	8915	07-Nov-13	11072013-003.SSF	400943.9529	19138
722114.23	4294326.604	8674	07-Nov-13	11072013-003.SSF	400944.988	19139
722114.127	4294326.671	9252	07-Nov-13	11072013-003.SSF	400945.8831	19140
722113.919	4294326.868	9277	07-Nov-13	11072013-003.SSF	400946.95	19141
722114	4294327.101	9077	07-Nov-13	11072013-003.SSF	400949.0859	19142
722113.973	4294327.007	8863	07-Nov-13	11072013-003.SSF	400949.8879	19143
722113.945	4294326.863	9081	07-Nov-13	11072013-003.SSF	400950.9741	19144
722113.866	4294326.878	9345	07-Nov-13	11072013-003.SSF	400951.938	19145
722113.82	4294326.884	8999	07-Nov-13	11072013-003.SSF	400952.9741	19146
722113.775	4294326.89	9127	07-Nov-13	11072013-003.SSF	400953.9189	19147
722113.759	4294326.922	8711	07-Nov-13	11072013-003.SSF	400954.9829	19148
722113.77	4294326.925	9257	07-Nov-13	11072013-003.SSF	400955.77	19149
722113.768	4294326.905	9130	07-Nov-13	11072013-003.SSF	400956.9819	19150
722113.75	4294326.875	8833	07-Nov-13	11072013-003.SSF	400957.78	19151
722113.741	4294326.856	8606	07-Nov-13	11072013-003.SSF	400958.821	19152
722113.749	4294326.861	9303	07-Nov-13	11072013-003.SSF	400959.7429	19153
722113.713	4294326.898	8788	07-Nov-13	11072013-003.SSF	400960.9971	19154
722113.631	4294327.005	8663	07-Nov-13	11072013-003.SSF	400961.812	19155
722113.563	4294327.102	9095	07-Nov-13	11072013-003.SSF	400962.8999	19156
722113.545	4294327.09	9421	07-Nov-13	11072013-003.SSF	400963.8589	19157
722113.535	4294327.087	9042	07-Nov-13	11072013-003.SSF	400964.9299	19158
722113.534	4294327.107	9121	07-Nov-13	11072013-003.SSF	400965.8401	19159
722113.52	4294327.135	9195	07-Nov-13	11072013-003.SSF	400966.9441	19160
722113.513	4294327.143	9335	07-Nov-13	11072013-003.SSF	400967.863	19161
722113.552	4294327.111	8468	07-Nov-13	11072013-003.SSF	400968.9661	19162
722113.622	4294327.001	8588	07-Nov-13	11072013-003.SSF	400969.8469	19163
722113.688	4294326.86	8468	07-Nov-13	11072013-003.SSF	400970.9419	19164
722113.718	4294326.857	8633	07-Nov-13	11072013-003.SSF	400971.8301	19165
722113.734	4294326.908	8711	07-Nov-13	11072013-003.SSF	400972.936	19166
722113.734	4294326.951	8687	07-Nov-13	11072013-003.SSF	400973.8779	19167
722113.748	4294326.996	8531	07-Nov-13	11072013-003.SSF	400974.8911	19168
722113.759	4294326.993	8991	07-Nov-13	11072013-003.SSF	400975.894	19169
722113.733	4294326.965	9490	07-Nov-13	11072013-003.SSF	400976.9041	19170
722113.725	4294326.934	9260	07-Nov-13	11072013-003.SSF	400977.8911	19171
722113.73	4294326.979	9101	07-Nov-13	11072013-003.SSF	400979.0359	19172
722113.739	4294327.03	9072	07-Nov-13	11072013-003.SSF	400979.8101	19173
722113.752	4294327.047	9078	07-Nov-13	11072013-003.SSF	400980.958	19174
722113.745	4294327.044	8601	07-Nov-13	11072013-003.SSF	400981.864	19175
722113.703	4294327.021	8468	07-Nov-13	11072013-003.SSF	400982.9199	19176
722113.659	4294326.951	8430	07-Nov-13	11072013-003.SSF	400983.8999	19177
722113.664	4294326.928	8372	07-Nov-13	11072013-003.SSF	400984.9729	19178
722113.676	4294326.986	8984	07-Nov-13	11072013-003.SSF	400985.791	19179
722113.683	4294327.031	8728	07-Nov-13	11072013-003.SSF	400986.908	19180

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722113.68	4294327.038	8705	07-Nov-13	11072013-003.SSF	400987.7949	19181
722113.661	4294327.02	9021	07-Nov-13	11072013-003.SSF	400988.8899	19182
722113.638	4294327.032	9537	07-Nov-13	11072013-003.SSF	400989.7981	19183
722113.636	4294327.099	9152	07-Nov-13	11072013-003.SSF	400991.012	19184
722113.647	4294327.118	9288	07-Nov-13	11072013-003.SSF	400991.8091	19185
722113.674	4294327.109	8772	07-Nov-13	11072013-003.SSF	400993.0229	19186
722113.669	4294327.102	8961	07-Nov-13	11072013-003.SSF	400993.9619	19187
722113.669	4294327.068	9346	07-Nov-13	11072013-003.SSF	400994.8879	19188
722113.689	4294327.042	9089	07-Nov-13	11072013-003.SSF	400995.855	19189
722113.665	4294326.997	9155	07-Nov-13	11072013-003.SSF	400997.0681	19190
722113.629	4294327.11	8922	07-Nov-13	11072013-003.SSF	400997.8579	19191
722113.628	4294327.159	9211	07-Nov-13	11072013-003.SSF	400999.0229	19192
722113.662	4294327.012	9141	07-Nov-13	11072013-003.SSF	400999.814	19193
722113.688	4294326.963	9327	07-Nov-13	11072013-003.SSF	401001.052	19194
722113.686	4294327.026	9566	07-Nov-13	11072013-003.SSF	401001.8391	19195
722113.686	4294327.097	9153	07-Nov-13	11072013-003.SSF	401002.9131	19196
722113.695	4294327.027	9461	07-Nov-13	11072013-003.SSF	401003.842	19197
722113.703	4294326.914	9177	07-Nov-13	11072013-003.SSF	401005.083	19198
722113.701	4294326.932	9084	07-Nov-13	11072013-003.SSF	401005.9099	19199
722113.693	4294326.948	8582	07-Nov-13	11072013-003.SSF	401006.9409	19200
722113.694	4294326.95	8675	07-Nov-13	11072013-003.SSF	401007.844	19201
722113.678	4294326.974	8944	07-Nov-13	11072013-003.SSF	401009.031	19202
722113.64	4294327.009	8609	07-Nov-13	11072013-003.SSF	401009.968	19203
722113.605	4294327.09	7827	07-Nov-13	11072013-003.SSF	401011.093	19204
722113.635	4294327.108	8010	07-Nov-13	11072013-003.SSF	401011.8459	19205
722113.682	4294327.09	8256	07-Nov-13	11072013-003.SSF	401012.929	19206
722113.7	4294327.051	9129	07-Nov-13	11072013-003.SSF	401013.8311	19207
722113.723	4294327.047	8742	07-Nov-13	11072013-003.SSF	401015.0791	19208
722113.725	4294327.058	8540	07-Nov-13	11072013-003.SSF	401015.874	19209
722113.716	4294327.033	8711	07-Nov-13	11072013-003.SSF	401017.1079	19210
722113.704	4294327.013	8222	07-Nov-13	11072013-003.SSF	401017.8821	19211
722113.697	4294326.983	8652	07-Nov-13	11072013-003.SSF	401018.9341	19212
722113.688	4294326.94	7709	07-Nov-13	11072013-003.SSF	401019.833	19213
722113.682	4294326.926	8154	07-Nov-13	11072013-003.SSF	401020.918	19214
722113.699	4294326.942	8539	07-Nov-13	11072013-003.SSF	401021.8669	19215
722113.717	4294326.966	8560	07-Nov-13	11072013-003.SSF	401022.9741	19216
722113.735	4294326.976	8752	07-Nov-13	11072013-003.SSF	401023.9089	19217
722113.752	4294326.974	9296	07-Nov-13	11072013-003.SSF	401024.9309	19218
722113.747	4294326.967	9001	07-Nov-13	11072013-003.SSF	401025.864	19219
722113.737	4294326.962	8918	07-Nov-13	11072013-003.SSF	401026.884	19220
722113.734	4294326.966	8969	07-Nov-13	11072013-003.SSF	401027.7939	19221
722113.734	4294326.981	8622	07-Nov-13	11072013-003.SSF	401028.939	19222
722113.733	4294326.984	8382	07-Nov-13	11072013-003.SSF	401029.802	19223
722113.73	4294326.991	8157	07-Nov-13	11072013-003.SSF	401030.897	19224
722113.721	4294327.001	8158	07-Nov-13	11072013-003.SSF	401031.8201	19225
722113.718	4294327.011	8189	07-Nov-13	11072013-003.SSF	401032.9541	19226
722113.721	4294327.029	8596	07-Nov-13	11072013-003.SSF	401033.894	19227

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722113.72	4294327.037	8143	07-Nov-13	11072013-003.SSF	401034.9541	19228
722113.718	4294327.043	8150	07-Nov-13	11072013-003.SSF	401035.8369	19229
722113.713	4294327.053	8064	07-Nov-13	11072013-003.SSF	401037.0081	19230
722113.708	4294327.07	8384	07-Nov-13	11072013-003.SSF	401037.822	19231
722113.724	4294327.08	8766	07-Nov-13	11072013-003.SSF	401039.1089	19232
722113.74	4294327.101	8411	07-Nov-13	11072013-003.SSF	401039.886	19233
722113.74	4294327.112	8946	07-Nov-13	11072013-003.SSF	401040.948	19234
722113.749	4294327.131	8714	07-Nov-13	11072013-003.SSF	401041.854	19235
722113.748	4294327.186	8697	07-Nov-13	11072013-003.SSF	401042.9541	19236
722113.735	4294327.179	8349	07-Nov-13	11072013-003.SSF	401043.7959	19237
722113.744	4294327.128	8551	07-Nov-13	11072013-003.SSF	401044.8889	19238
722113.749	4294327.116	8387	07-Nov-13	11072013-003.SSF	401045.8369	19239
722113.727	4294327.08	8648	07-Nov-13	11072013-003.SSF	401046.8469	19240
722113.688	4294327.02	8232	07-Nov-13	11072013-003.SSF	401047.8049	19241
722113.642	4294327.03	8965	07-Nov-13	11072013-003.SSF	401048.8459	19242
722113.622	4294327.047	8388	07-Nov-13	11072013-003.SSF	401049.803	19243
722113.637	4294327.012	9053	07-Nov-13	11072013-003.SSF	401050.967	19244
722113.633	4294327.015	8887	07-Nov-13	11072013-003.SSF	401051.877	19245
722113.63	4294327.007	8591	07-Nov-13	11072013-003.SSF	401052.968	19246
722113.621	4294326.992	8605	07-Nov-13	11072013-003.SSF	401053.8779	19247
722113.592	4294326.975	8665	07-Nov-13	11072013-003.SSF	401054.9099	19248
722113.555	4294326.991	9157	07-Nov-13	11072013-003.SSF	401055.7859	19249
722113.52	4294326.991	9470	07-Nov-13	11072013-003.SSF	401056.9309	19250
722113.524	4294326.983	8927	07-Nov-13	11072013-003.SSF	401057.8049	19251
722113.559	4294326.963	8846	07-Nov-13	11072013-003.SSF	401058.928	19252
722113.585	4294326.976	8763	07-Nov-13	11072013-003.SSF	401059.8059	19253
722113.601	4294326.995	8889	07-Nov-13	11072013-003.SSF	401060.9729	19254
722113.613	4294326.977	9313	07-Nov-13	11072013-003.SSF	401061.8	19255
722113.627	4294326.967	9161	07-Nov-13	11072013-003.SSF	401062.978	19256
722113.625	4294326.994	8693	07-Nov-13	11072013-003.SSF	401063.9719	19257
722113.584	4294327.075	8625	07-Nov-13	11072013-003.SSF	401064.9761	19258
722113.695	4294327.153	9344	07-Nov-13	11072013-003.SSF	401065.9829	19259
722114.309	4294326.829	9606	07-Nov-13	11072013-003.SSF	401066.991	19260
722114.907	4294326.413	9288	07-Nov-13	11072013-003.SSF	401067.822	19261
722115.61	4294326.168	9169	07-Nov-13	11072013-003.SSF	401068.991	19262
722115.931	4294326.764	8878	07-Nov-13	11072013-003.SSF	401069.821	19263
722116.233	4294327.932	8683	07-Nov-13	11072013-003.SSF	401070.8789	19264
722116.516	4294328.846	9242	07-Nov-13	11072013-003.SSF	401071.8469	19265
722117.079	4294329.517	9383	07-Nov-13	11072013-003.SSF	401072.9771	19266
722117.707	4294330.012	9305	07-Nov-13	11072013-003.SSF	401073.8521	19267
722117.993	4294330.784	8924	07-Nov-13	11072013-003.SSF	401074.916	19268
722118.137	4294331.456	8860	07-Nov-13	11072013-003.SSF	401075.917	19269
722118.118	4294331.882	9453	07-Nov-13	11072013-003.SSF	401076.917	19270
722118.094	4294332.154	9532	07-Nov-13	11072013-003.SSF	401077.802	19271
722117.98	4294332.501	9202	07-Nov-13	11072013-003.SSF	401078.875	19272
722117.84	4294332.87	9728	07-Nov-13	11072013-003.SSF	401079.8259	19273
722117.606	4294333.255	9259	07-Nov-13	11072013-003.SSF	401080.884	19274

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722117.195	4294333.924	8925	07-Nov-13	11072013-003.SSF	401082.9409	19276
722117.055	4294334.156	9610	07-Nov-13	11072013-003.SSF	401083.874	19277
722117.028	4294334.39	9913	07-Nov-13	11072013-003.SSF	401084.927	19278
722116.96	4294334.554	9468	07-Nov-13	11072013-003.SSF	401085.8101	19279
722117.064	4294334.709	9803	07-Nov-13	11072013-003.SSF	401086.8391	19280
722117.138	4294334.854	9062	07-Nov-13	11072013-003.SSF	401087.7439	19281
722117.206	4294335.02	9185	07-Nov-13	11072013-003.SSF	401088.8789	19282
722117.25	4294335.189	8924	07-Nov-13	11072013-003.SSF	401089.8301	19283
722117.393	4294335.393	9534	07-Nov-13	11072013-003.SSF	401090.8679	19284
722117.508	4294335.625	8820	07-Nov-13	11072013-003.SSF	401091.793	19285
722117.697	4294335.707	8666	07-Nov-13	11072013-003.SSF	401092.9231	19286
722117.932	4294335.748	8632	07-Nov-13	11072013-003.SSF	401093.761	19287
722118.284	4294335.913	9295	07-Nov-13	11072013-003.SSF	401094.925	19288
722118.349	4294336.201	9203	07-Nov-13	11072013-003.SSF	401095.801	19289
722118.283	4294336.496	9527	07-Nov-13	11072013-003.SSF	401096.8391	19290
722118.3	4294336.435	8786	07-Nov-13	11072013-003.SSF	401097.73	19291
722118.476	4294336.182	8632	07-Nov-13	11072013-003.SSF	401098.843	19292
722118.568	4294335.871	8650	07-Nov-13	11072013-003.SSF	401099.7361	19293
722118.613	4294335.463	9463	07-Nov-13	11072013-003.SSF	401100.937	19294
722118.481	4294335.162	9628	07-Nov-13	11072013-003.SSF	401101.856	19295
722118.437	4294334.628	9323	07-Nov-13	11072013-003.SSF	401102.9951	19296
722118.41	4294334.183	8994	07-Nov-13	11072013-003.SSF	401103.896	19297
722118.338	4294333.768	8696	07-Nov-13	11072013-003.SSF	401104.9399	19298
722118.253	4294333.533	9002	07-Nov-13	11072013-003.SSF	401105.821	19299
722118.198	4294333.235	8986	07-Nov-13	11072013-003.SSF	401106.927	19300
722118.126	4294333.006	9187	07-Nov-13	11072013-003.SSF	401107.8301	19301
722117.867	4294332.605	8977	07-Nov-13	11072013-003.SSF	401108.875	19302
722117.752	4294332.173	8687	07-Nov-13	11072013-003.SSF	401109.78	19303
722117.776	4294331.792	9244	07-Nov-13	11072013-003.SSF	401110.886	19304
722117.803	4294331.488	9977	07-Nov-13	11072013-003.SSF	401111.7949	19305
722117.736	4294331.027	9594	07-Nov-13	11072013-003.SSF	401112.8799	19306
722117.6	4294330.621	9252	07-Nov-13	11072013-003.SSF	401113.844	19307
722117.563	4294330.189	9171	07-Nov-13	11072013-003.SSF	401115.116	19308
722117.425	4294329.993	9824	07-Nov-13	11072013-003.SSF	401115.864	19309
722116.992	4294329.877	9801	07-Nov-13	11072013-003.SSF	401116.9541	19310
722116.619	4294330.096	9495	07-Nov-13	11072013-003.SSF	401117.9299	19311
722116.29	4294330.228	9173	07-Nov-13	11072013-003.SSF	401118.9431	19312
722116.093	4294330.22	8160	07-Nov-13	11072013-003.SSF	401119.854	19313
722116.002	4294330.222	8550	07-Nov-13	11072013-003.SSF	401120.947	19314
722116.023	4294330.241	8612	07-Nov-13	11072013-003.SSF	401121.855	19315
722116.062	4294330.247	8714	07-Nov-13	11072013-003.SSF	401122.886	19316
722116.082	4294330.245	9026	07-Nov-13	11072013-003.SSF	401123.8181	19317
722116.095	4294330.254	8580	07-Nov-13	11072013-003.SSF	401124.8931	19318
722116.097	4294330.263	9116	07-Nov-13	11072013-003.SSF	401125.834	19319
722116.121	4294330.254	8668	07-Nov-13	11072013-003.SSF	401126.925	19320
722116.143	4294330.228	9293	07-Nov-13	11072013-003.SSF	401127.803	19321

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722116.144	4294330.234	9240	07-Nov-13	11072013-003.SSF	401129.7991	19323
722116.107	4294330.246	8925	07-Nov-13	11072013-003.SSF	401130.875	19324
722116.1	4294330.23	8590	07-Nov-13	11072013-003.SSF	401131.824	19325
722116.165	4294330.241	8274	07-Nov-13	11072013-003.SSF	401132.957	19326
722116.236	4294330.273	8052	07-Nov-13	11072013-003.SSF	401133.8391	19327
722116.29	4294330.351	8616	07-Nov-13	11072013-003.SSF	401134.886	19328
722116.285	4294330.372	9317	07-Nov-13	11072013-003.SSF	401135.8259	19329
722116.285	4294330.33	8923	07-Nov-13	11072013-003.SSF	401136.894	19330
722116.267	4294330.295	8417	07-Nov-13	11072013-003.SSF	401137.834	19331
722116.252	4294330.279	8304	07-Nov-13	11072013-003.SSF	401138.887	19332
722116.252	4294330.273	8414	07-Nov-13	11072013-003.SSF	401139.843	19333
722116.245	4294330.276	8925	07-Nov-13	11072013-003.SSF	401140.876	19334
722116.241	4294330.267	8290	07-Nov-13	11072013-003.SSF	401141.8049	19335
722116.236	4294330.246	8548	07-Nov-13	11072013-003.SSF	401142.874	19336
722116.24	4294330.23	9008	07-Nov-13	11072013-003.SSF	401143.801	19337
722116.254	4294330.214	8712	07-Nov-13	11072013-003.SSF	401144.8821	19338
722116.246	4294330.199	9063	07-Nov-13	11072013-003.SSF	401145.7639	19339
722116.237	4294330.185	8870	07-Nov-13	11072013-003.SSF	401146.8291	19340
722116.243	4294330.185	8754	07-Nov-13	11072013-003.SSF	401147.751	19341
722116.255	4294330.177	8502	07-Nov-13	11072013-003.SSF	401148.8811	19342
722116.245	4294330.182	8847	07-Nov-13	11072013-003.SSF	401149.7891	19343
722116.23	4294330.219	9184	07-Nov-13	11072013-003.SSF	401150.95	19344
722116.214	4294330.228	8391	07-Nov-13	11072013-003.SSF	401151.7529	19345
722116.17	4294330.21	8080	07-Nov-13	11072013-003.SSF	401152.9709	19346
722116.177	4294330.205	8235	07-Nov-13	11072013-003.SSF	401153.821	19347
722116.182	4294330.148	8502	07-Nov-13	11072013-003.SSF	401154.8459	19348
722116.186	4294330.132	8682	07-Nov-13	11072013-003.SSF	401155.8701	19349
722116.182	4294330.151	8746	07-Nov-13	11072013-003.SSF	401156.9309	19350
722116.173	4294330.182	9300	07-Nov-13	11072013-003.SSF	401157.7991	19351
722116.164	4294330.189	9033	07-Nov-13	11072013-003.SSF	401158.927	19352
722116.177	4294330.191	9513	07-Nov-13	11072013-003.SSF	401159.7739	19353
722116.25	4294330.268	9904	07-Nov-13	11072013-003.SSF	401160.865	19354
722116.282	4294330.275	9418	07-Nov-13	11072013-003.SSF	401161.7839	19355
722116.265	4294330.265	9033	07-Nov-13	11072013-003.SSF	401162.8879	19356
722116.232	4294330.27	9198	07-Nov-13	11072013-003.SSF	401163.769	19357
722116.256	4294330.372	8819	07-Nov-13	11072013-003.SSF	401164.887	19358
722116.216	4294330.301	9040	07-Nov-13	11072013-003.SSF	401165.8521	19359
722116.066	4294330.176	8752	07-Nov-13	11072013-003.SSF	401166.8689	19360
722116.052	4294330.16	9146	07-Nov-13	11072013-003.SSF	401167.77	19361
722116.062	4294330.219	8699	07-Nov-13	11072013-003.SSF	401168.8779	19362
722116.046	4294330.258	8666	07-Nov-13	11072013-003.SSF	401169.803	19363
722116.02	4294330.283	8789	07-Nov-13	11072013-003.SSF	401170.8611	19364
722116.001	4294330.28	8664	07-Nov-13	11072013-003.SSF	401171.8259	19365
722115.996	4294330.277	8706	07-Nov-13	11072013-003.SSF	401172.9451	19366
722116.007	4294330.28	9209	07-Nov-13	11072013-003.SSF	401173.8101	19367
722116.023	4294330.305	9230	07-Nov-13	11072013-003.SSF	401174.9399	19368

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722116.052	4294330.322	8537	07-Nov-13	11072013-003.SSF	401175.7971	19369
722116.057	4294330.344	8964	07-Nov-13	11072013-003.SSF	401176.9661	19370
722116.05	4294330.333	9407	07-Nov-13	11072013-003.SSF	401177.8359	19371
722116.027	4294330.313	8989	07-Nov-13	11072013-003.SSF	401178.9189	19372
722116.054	4294330.28	8641	07-Nov-13	11072013-003.SSF	401179.8359	19373
722116.112	4294330.208	8828	07-Nov-13	11072013-003.SSF	401180.8999	19374
722116.145	4294330.149	8408	07-Nov-13	11072013-003.SSF	401181.8101	19375
722116.193	4294330.18	8509	07-Nov-13	11072013-003.SSF	401182.835	19376
722116.502	4294330.239	8596	07-Nov-13	11072013-003.SSF	401183.7429	19377
722117.315	4294330.288	9110	07-Nov-13	11072013-003.SSF	401184.896	19378
722118.104	4294330.353	8552	07-Nov-13	11072013-003.SSF	401185.7881	19379
722118.873	4294330.053	8718	07-Nov-13	11072013-003.SSF	401186.7959	19380
722119.129	4294329.877	8586	07-Nov-13	11072013-003.SSF	401187.717	19381
722119.298	4294330.087	8647	07-Nov-13	11072013-003.SSF	401188.876	19382
722119.425	4294330.457	9079	07-Nov-13	11072013-003.SSF	401189.7581	19383
722119.611	4294330.846	9089	07-Nov-13	11072013-003.SSF	401190.896	19384
722119.77	4294331.193	9462	07-Nov-13	11072013-003.SSF	401191.823	19385
722119.826	4294331.571	9447	07-Nov-13	11072013-003.SSF	401192.886	19386
722119.962	4294331.874	8846	07-Nov-13	11072013-003.SSF	401193.8301	19387
722120.151	4294332.222	8591	07-Nov-13	11072013-003.SSF	401194.856	19388
722120.315	4294332.541	9265	07-Nov-13	11072013-003.SSF	401195.8049	19389
722120.484	4294332.847	9441	07-Nov-13	11072013-003.SSF	401196.969	19390
722120.492	4294333.157	9016	07-Nov-13	11072013-003.SSF	401197.8291	19391
722120.369	4294333.535	8874	07-Nov-13	11072013-003.SSF	401198.8579	19392
722120.425	4294333.727	8801	07-Nov-13	11072013-003.SSF	401199.802	19393
722120.41	4294333.885	8520	07-Nov-13	11072013-003.SSF	401200.856	19394
722120.459	4294333.986	8918	07-Nov-13	11072013-003.SSF	401201.822	19395
722120.532	4294334.15	8646	07-Nov-13	11072013-003.SSF	401202.877	19396
722120.568	4294334.378	8981	07-Nov-13	11072013-003.SSF	401203.814	19397
722120.458	4294334.699	9221	07-Nov-13	11072013-003.SSF	401204.8501	19398
722120.487	4294334.955	8922	07-Nov-13	11072013-003.SSF	401205.8191	19399
722120.627	4294335.095	8596	07-Nov-13	11072013-003.SSF	401206.8569	19400
722120.657	4294335.126	8675	07-Nov-13	11072013-003.SSF	401207.8149	19401
722120.663	4294335.132	8202	07-Nov-13	11072013-003.SSF	401208.9199	19402
722120.356	4294334.857	8806	07-Nov-13	11072013-003.SSF	401209.792	19403
722119.821	4294334.84	8958	07-Nov-13	11072013-003.SSF	401210.95	19404
722119.275	4294335.26	8834	07-Nov-13	11072013-003.SSF	401211.7771	19405
722118.689	4294335.714	8794	07-Nov-13	11072013-003.SSF	401212.887	19406
722118.537	4294335.838	9026	07-Nov-13	11072013-003.SSF	401213.811	19407
722118.792	4294335.966	9277	07-Nov-13	11072013-003.SSF	401214.8621	19408
722119.114	4294335.994	8923	07-Nov-13	11072013-003.SSF	401215.782	19409
722119.144	4294335.993	9159	07-Nov-13	11072013-003.SSF	401216.9009	19410
722118.99	4294336.058	9059	07-Nov-13	11072013-003.SSF	401217.8279	19411
722118.796	4294336.127	9356	07-Nov-13	11072013-003.SSF	401218.863	19412
722118.983	4294336.184	8607	07-Nov-13	11072013-003.SSF	401219.783	19413
722119.426	4294336.408	8471	07-Nov-13	11072013-003.SSF	401220.8259	19414
722119.538	4294336.772	9130	07-Nov-13	11072013-003.SSF	401221.7529	19415

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722119.31	4294337.242	9081	07-Nov-13	11072013-003.SSF	401222.854	19416
722119.408	4294337.877	9068	07-Nov-13	11072013-003.SSF	401223.792	19417
722119.385	4294338.603	8813	07-Nov-13	11072013-003.SSF	401224.845	19418
722119.428	4294338.957	8452	07-Nov-13	11072013-003.SSF	401225.769	19419
722119.6	4294339.328	8542	07-Nov-13	11072013-003.SSF	401226.8979	19420
722119.766	4294339.439	8727	07-Nov-13	11072013-003.SSF	401227.793	19421
722119.986	4294339.844	8719	07-Nov-13	11072013-003.SSF	401228.842	19422
722120.158	4294340.083	8669	07-Nov-13	11072013-003.SSF	401229.7571	19423
722120.711	4294340.063	8739	07-Nov-13	11072013-003.SSF	401230.876	19424
722120.866	4294339.885	9160	07-Nov-13	11072013-003.SSF	401231.801	19425
722120.473	4294339.599	9262	07-Nov-13	11072013-003.SSF	401232.832	19426
722120.025	4294339.503	9117	07-Nov-13	11072013-003.SSF	401233.7749	19427
722119.844	4294339.395	9313	07-Nov-13	11072013-003.SSF	401234.8701	19428
722119.684	4294339.347	8861	07-Nov-13	11072013-003.SSF	401235.814	19429
722119.441	4294339.191	9207	07-Nov-13	11072013-003.SSF	401236.9341	19430
722119.245	4294339.052	8434	07-Nov-13	11072013-003.SSF	401237.783	19431
722118.94	4294338.945	8951	07-Nov-13	11072013-003.SSF	401238.8721	19432
722118.783	4294338.832	8575	07-Nov-13	11072013-003.SSF	401239.7649	19433
722118.558	4294338.799	8986	07-Nov-13	11072013-003.SSF	401240.845	19434
722118.456	4294338.813	9037	07-Nov-13	11072013-003.SSF	401241.7439	19435
722118.347	4294338.754	9276	07-Nov-13	11072013-003.SSF	401242.822	19436
722118.376	4294338.669	9222	07-Nov-13	11072013-003.SSF	401243.7261	19437
722118.547	4294338.419	9200	07-Nov-13	11072013-003.SSF	401244.8899	19438
722118.46	4294338.289	9075	07-Nov-13	11072013-003.SSF	401245.8301	19439
722118.474	4294338.144	9222	07-Nov-13	11072013-003.SSF	401246.927	19440
722118.584	4294338.031	9575	07-Nov-13	11072013-003.SSF	401247.8101	19441
722118.894	4294337.842	9668	07-Nov-13	11072013-003.SSF	401248.928	19442
722119.254	4294337.463	8768	07-Nov-13	11072013-003.SSF	401249.8181	19443
722119.385	4294336.833	9297	07-Nov-13	11072013-003.SSF	401250.8279	19444
722119.308	4294336.104	9137	07-Nov-13	11072013-003.SSF	401251.8169	19445
722119.027	4294335.653	9159	07-Nov-13	11072013-003.SSF	401252.8411	19446
722118.67	4294335.317	8632	07-Nov-13	11072013-003.SSF	401253.7581	19447
722118.259	4294335.001	8725	07-Nov-13	11072013-003.SSF	401254.8679	19448
722117.958	4294334.911	8853	07-Nov-13	11072013-003.SSF	401255.7429	19449
722117.67	4294334.643	8925	07-Nov-13	11072013-003.SSF	401256.8081	19450
722117.52	4294334.336	8830	07-Nov-13	11072013-003.SSF	401257.7451	19451
722117.272	4294334.183	8972	07-Nov-13	11072013-003.SSF	401258.8459	19452
722117.15	4294334.208	9509	07-Nov-13	11072013-003.SSF	401259.752	19453
722117.127	4294334.215	8844	07-Nov-13	11072013-003.SSF	401260.834	19454
722117.116	4294334.208	8957	07-Nov-13	11072013-003.SSF	401261.7539	19455
722117.088	4294334.247	9058	07-Nov-13	11072013-003.SSF	401262.8589	19456
722117.104	4294334.354	9160	07-Nov-13	11072013-003.SSF	401263.793	19457
722117.514	4294334.424	8775	07-Nov-13	11072013-003.SSF	401264.8999	19458
722118.083	4294334.738	8896	07-Nov-13	11072013-003.SSF	401265.7361	19459
722118.568	4294335.364	9046	07-Nov-13	11072013-003.SSF	401266.8621	19460
722118.712	4294335.988	9056	07-Nov-13	11072013-003.SSF	401267.7561	19461
722119.073	4294336.592	8506	07-Nov-13	11072013-003.SSF	401268.7639	19462

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722119.381	4294337.143	8205	07-Nov-13	11072013-003.SSF	401269.729	19463
722119.58	4294337.74	8312	07-Nov-13	11072013-003.SSF	401270.8579	19464
722119.719	4294337.961	8553	07-Nov-13	11072013-003.SSF	401271.666	19465
722120.262	4294337.852	8591	07-Nov-13	11072013-003.SSF	401272.7581	19466
722120.434	4294337.829	9023	07-Nov-13	11072013-003.SSF	401273.6931	19467
722120.16	4294338.052	8571	07-Nov-13	11072013-003.SSF	401274.8169	19468
722120.157	4294338.144	8473	07-Nov-13	11072013-003.SSF	401275.7439	19469
722120.201	4294338.143	8576	07-Nov-13	11072013-003.SSF	401276.8821	19470
722120.211	4294338.156	8086	07-Nov-13	11072013-003.SSF	401277.7119	19471
722120.164	4294338.164	8163	07-Nov-13	11072013-003.SSF	401278.8689	19472
722120.105	4294338.151	8109	07-Nov-13	11072013-003.SSF	401279.6851	19473
722120.097	4294338.134	8611	07-Nov-13	11072013-003.SSF	401280.8611	19474
722120.128	4294338.134	8736	07-Nov-13	11072013-003.SSF	401281.8069	19475
722120.144	4294338.139	8416	07-Nov-13	11072013-003.SSF	401282.8391	19476
722120.15	4294338.131	7997	07-Nov-13	11072013-003.SSF	401283.8191	19477
722120.126	4294338.118	8255	07-Nov-13	11072013-003.SSF	401284.917	19478
722120.102	4294338.121	8641	07-Nov-13	11072013-003.SSF	401285.7791	19479
722120.08	4294338.129	8948	07-Nov-13	11072013-003.SSF	401286.8811	19480
722120.075	4294338.13	8678	07-Nov-13	11072013-003.SSF	401287.7749	19481
722120.072	4294338.131	8721	07-Nov-13	11072013-003.SSF	401288.866	19482
722120.085	4294338.115	8828	07-Nov-13	11072013-003.SSF	401289.7629	19483
722120.101	4294338.094	8656	07-Nov-13	11072013-003.SSF	401290.8821	19484
722120.105	4294338.105	8896	07-Nov-13	11072013-003.SSF	401291.762	19485
722120.1	4294338.118	8379	07-Nov-13	11072013-003.SSF	401292.8069	19486
722120.101	4294338.121	8733	07-Nov-13	11072013-003.SSF	401293.6919	19487
722120.09	4294338.119	8565	07-Nov-13	11072013-003.SSF	401294.781	19488
722120.085	4294338.129	8575	07-Nov-13	11072013-003.SSF	401295.7661	19489
722120.119	4294338.164	8911	07-Nov-13	11072013-003.SSF	401296.938	19490
722120.124	4294338.174	8822	07-Nov-13	11072013-003.SSF	401297.769	19491
722120.123	4294338.178	8345	07-Nov-13	11072013-003.SSF	401298.8379	19492
722120.135	4294338.224	9291	07-Nov-13	11072013-003.SSF	401299.75	19493
722120.146	4294338.315	9261	07-Nov-13	11072013-003.SSF	401300.844	19494
722120.16	4294338.354	8644	07-Nov-13	11072013-003.SSF	401301.748	19495
722120.182	4294338.365	9272	07-Nov-13	11072013-003.SSF	401302.79	19496
722120.169	4294338.415	9063	07-Nov-13	11072013-003.SSF	401303.7261	19497
722119.984	4294338.527	9478	07-Nov-13	11072013-003.SSF	401304.8269	19498
722120.02	4294338.743	9179	07-Nov-13	11072013-003.SSF	401305.79	19499
722120.348	4294338.887	9198	07-Nov-13	11072013-003.SSF	401306.8491	19500
722120.552	4294338.985	9246	07-Nov-13	11072013-003.SSF	401307.761	19501
722120.628	4294339.186	9161	07-Nov-13	11072013-003.SSF	401308.8721	19502
722120.516	4294339.367	8258	07-Nov-13	11072013-003.SSF	401309.7261	19503
722120.421	4294339.552	8627	07-Nov-13	11072013-003.SSF	401310.856	19504
722120.408	4294339.608	8700	07-Nov-13	11072013-003.SSF	401311.7671	19505
722120.411	4294339.628	8839	07-Nov-13	11072013-003.SSF	401312.822	19506
722120.438	4294339.626	8999	07-Nov-13	11072013-003.SSF	401313.7739	19507
722120.466	4294339.638	9202	07-Nov-13	11072013-003.SSF	401314.814	19508
722120.482	4294339.648	8566	07-Nov-13	11072013-003.SSF	401315.7561	19509

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722120.501	4294339.652	8471	07-Nov-13	11072013-003.SSF	401316.8	19510
722120.522	4294339.651	8267	07-Nov-13	11072013-003.SSF	401317.749	19511
722120.529	4294339.64	8782	07-Nov-13	11072013-003.SSF	401318.8091	19512
722120.537	4294339.636	8540	07-Nov-13	11072013-003.SSF	401319.7451	19513
722120.538	4294339.656	8568	07-Nov-13	11072013-003.SSF	401320.804	19514
722120.536	4294339.673	8735	07-Nov-13	11072013-003.SSF	401321.761	19515
722120.535	4294339.698	8693	07-Nov-13	11072013-003.SSF	401322.8601	19516
722120.541	4294339.717	8490	07-Nov-13	11072013-003.SSF	401323.749	19517
722120.536	4294339.75	8563	07-Nov-13	11072013-003.SSF	401324.8501	19518
722120.52	4294339.772	8686	07-Nov-13	11072013-003.SSF	401325.7041	19519
722120.514	4294339.768	8703	07-Nov-13	11072013-003.SSF	401326.7839	19520
722120.512	4294339.769	9096	07-Nov-13	11072013-003.SSF	401327.686	19521
722120.507	4294339.795	8671	07-Nov-13	11072013-003.SSF	401328.822	19522
722120.492	4294339.836	7742	07-Nov-13	11072013-003.SSF	401329.71	19523
722120.472	4294339.884	7992	07-Nov-13	11072013-003.SSF	401330.7939	19524
722120.458	4294339.918	8328	07-Nov-13	11072013-003.SSF	401331.709	19525
722120.443	4294339.956	8224	07-Nov-13	11072013-003.SSF	401332.821	19526
722120.439	4294339.972	8489	07-Nov-13	11072013-003.SSF	401333.731	19527
722120.415	4294340.002	8592	07-Nov-13	11072013-003.SSF	401334.8201	19528
722120.396	4294340.023	8103	07-Nov-13	11072013-003.SSF	401335.7319	19529
722120.375	4294340.052	8008	07-Nov-13	11072013-003.SSF	401336.866	19530
722120.372	4294340.036	7879	07-Nov-13	11072013-003.SSF	401337.7671	19531
722120.343	4294340.047	8152	07-Nov-13	11072013-003.SSF	401338.8679	19532
722120.329	4294340.073	8568	07-Nov-13	11072013-003.SSF	401339.7661	19533
722120.32	4294340.1	8607	07-Nov-13	11072013-003.SSF	401340.833	19534
722120.313	4294340.104	9251	07-Nov-13	11072013-003.SSF	401341.7219	19535
722120.306	4294340.1	9486	07-Nov-13	11072013-003.SSF	401342.833	19536
722120.302	4294340.107	8793	07-Nov-13	11072013-003.SSF	401343.749	19537
722120.307	4294340.117	8958	07-Nov-13	11072013-003.SSF	401344.77	19538
722120.316	4294340.129	9194	07-Nov-13	11072013-003.SSF	401345.7771	19539
722120.326	4294340.142	9476	07-Nov-13	11072013-003.SSF	401346.8821	19540
722120.328	4294340.15	9193	07-Nov-13	11072013-003.SSF	401347.7781	19541
722120.336	4294340.117	8853	07-Nov-13	11072013-003.SSF	401348.8821	19542
722120.335	4294340.074	8520	07-Nov-13	11072013-003.SSF	401349.783	19543
722120.342	4294340.062	7950	07-Nov-13	11072013-003.SSF	401350.7461	19544
722120.367	4294340.071	8349	07-Nov-13	11072013-003.SSF	401351.676	19545
722120.393	4294340.082	8656	07-Nov-13	11072013-003.SSF	401352.8091	19546
722120.403	4294340.084	8829	07-Nov-13	11072013-003.SSF	401353.6489	19547
722120.424	4294340.088	9069	07-Nov-13	11072013-003.SSF	401354.7661	19548
722120.322	4294340.022	9526	07-Nov-13	11072013-003.SSF	401355.729	19549
722120.001	4294340.046	8778	07-Nov-13	11072013-003.SSF	401356.8491	19550
722119.886	4294340.132	8950	07-Nov-13	11072013-003.SSF	401357.782	19551
722119.987	4294340.11	8454	07-Nov-13	11072013-003.SSF	401358.7949	19552
722120.074	4294340.055	8175	07-Nov-13	11072013-003.SSF	401359.7109	19553
722120.212	4294339.886	8708	07-Nov-13	11072013-003.SSF	401360.855	19554
722120.249	4294339.693	8941	07-Nov-13	11072013-003.SSF	401361.7771	19555
722120.121	4294339.441	9184	07-Nov-13	11072013-003.SSF	401362.907	19556

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722119.877	4294339.28	8976	07-Nov-13	11072013-003.SSF	401363.825	19557
722119.652	4294338.826	9361	07-Nov-13	11072013-003.SSF	401364.8669	19558
722119.706	4294338.018	8813	07-Nov-13	11072013-003.SSF	401365.738	19559
722119.648	4294337.036	8572	07-Nov-13	11072013-003.SSF	401366.783	19560
722119.262	4294336.438	8654	07-Nov-13	11072013-003.SSF	401367.7241	19561
722118.629	4294335.56	8625	07-Nov-13	11072013-003.SSF	401368.856	19562
722118.276	4294334.726	8437	07-Nov-13	11072013-003.SSF	401369.6819	19563
722118.35	4294333.636	8825	07-Nov-13	11072013-003.SSF	401370.864	19564
722118.743	4294332.803	9067	07-Nov-13	11072013-003.SSF	401371.707	19565
722118.853	4294331.815	8647	07-Nov-13	11072013-003.SSF	401372.8521	19566
722118.57	4294331.456	8314	07-Nov-13	11072013-003.SSF	401373.7429	19567
722118.27	4294330.975	8246	07-Nov-13	11072013-003.SSF	401374.8711	19568
722118.013	4294330.306	7893	07-Nov-13	11072013-003.SSF	401375.6741	19569
722117.521	4294329.123	8587	07-Nov-13	11072013-003.SSF	401376.7629	19570
722117.05	4294327.958	8903	07-Nov-13	11072013-003.SSF	401377.6699	19571
722116.541	4294326.685	8360	07-Nov-13	11072013-003.SSF	401378.7529	19572
722116.23	4294325.703	8737	07-Nov-13	11072013-003.SSF	401379.7361	19573
722116.142	4294324.732	8515	07-Nov-13	11072013-003.SSF	401380.7759	19574
722116.204	4294323.846	8712	07-Nov-13	11072013-003.SSF	401381.696	19575
722116.338	4294322.483	8770	07-Nov-13	11072013-003.SSF	401382.8069	19576
722116.521	4294321.449	7978	07-Nov-13	11072013-003.SSF	401383.644	19577
722116.742	4294320.347	8328	07-Nov-13	11072013-003.SSF	401384.7119	19578
722116.895	4294319.493	8479	07-Nov-13	11072013-003.SSF	401385.6599	19579
722117.032	4294318.486	8152	07-Nov-13	11072013-003.SSF	401386.717	19580
722117.342	4294317.603	7585	07-Nov-13	11072013-003.SSF	401387.6689	19581
722118.134	4294316.894	8099	07-Nov-13	11072013-003.SSF	401388.8059	19582
722118.82	4294316.484	8538	07-Nov-13	11072013-003.SSF	401389.6499	19583
722119.502	4294315.7	8298	07-Nov-13	11072013-003.SSF	401390.7429	19584
722120.049	4294315.02	7555	07-Nov-13	11072013-003.SSF	401391.668	19585
722120.771	4294314.872	7084	07-Nov-13	11072013-003.SSF	401392.708	19586
722121.415	4294315.248	6025	07-Nov-13	11072013-003.SSF	401393.634	19587
722122.142	4294315.709	5946	07-Nov-13	11072013-003.SSF	401394.7209	19588
722122.927	4294315.807	5895	07-Nov-13	11072013-003.SSF	401395.636	19589
722123.972	4294315.667	5730	07-Nov-13	11072013-003.SSF	401396.7771	19590
722124.965	4294315.566	5001	07-Nov-13	11072013-003.SSF	401397.7	19591
722125.771	4294315.57	4665	07-Nov-13	11072013-003.SSF	401398.728	19592
722125.781	4294315.724	4109	07-Nov-13	11072013-003.SSF	401399.6389	19593
722125.345	4294315.858	3939	07-Nov-13	11072013-003.SSF	401400.821	19594
722125.138	4294315.838	3715	07-Nov-13	11072013-003.SSF	401401.738	19595
722125.099	4294315.847	3672	07-Nov-13	11072013-003.SSF	401402.863	19596
722125.588	4294315.56	3560	07-Nov-13	11072013-003.SSF	401426.7798	19597
722125.578	4294315.573	4057	07-Nov-13	11072013-003.SSF	401427.7031	19598
722125.608	4294315.563	3954	07-Nov-13	11072013-003.SSF	401428.8071	19599
722125.486	4294315.672	3829	07-Nov-13	11072013-003.SSF	401429.7158	19600
722125.445	4294315.775	3819	07-Nov-13	11072013-003.SSF	401430.856	19601
722125.399	4294315.837	3670	07-Nov-13	11072013-003.SSF	401431.7329	19602
722125.359	4294315.885	3977	07-Nov-13	11072013-003.SSF	401432.8408	19603

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722116.844	4294327.635	5152	07-Nov-13	11072013-003.SSF	401756.4409	19605
722116.817	4294328.012	4548	07-Nov-13	11072013-003.SSF	401757.377	19606
722116.746	4294328.375	4291	07-Nov-13	11072013-003.SSF	401758.4751	19607
722116.743	4294328.5	4078	07-Nov-13	11072013-003.SSF	401759.396	19608
722116.752	4294328.897	4529	07-Nov-13	11072013-003.SSF	401760.688	19609
722116.719	4294328.933	4632	07-Nov-13	11072013-003.SSF	401761.6411	19610
722116.736	4294329.156	5216	07-Nov-13	11072013-003.SSF	401762.6509	19611
722116.61	4294329.362	5073	07-Nov-13	11072013-003.SSF	401764.7119	19612
722116.301	4294329.836	5080	07-Nov-13	11072013-003.SSF	401767.6021	19613
722116.262	4294330.231	5546	07-Nov-13	11072013-003.SSF	401769.5659	19614
722116.838	4294331.745	4520	07-Nov-13	11072013-003.SSF	401779.521	19615
722116.94	4294331.719	4695	07-Nov-13	11072013-003.SSF	401780.6201	19616
722117.032	4294331.724	4928	07-Nov-13	11072013-003.SSF	401781.5581	19617
722117.036	4294331.722	4399	07-Nov-13	11072013-003.SSF	401782.625	19618
722116.772	4294331.272	4762	07-Nov-13	11072013-003.SSF	401783.6172	19619
722116.618	4294330.97	4396	07-Nov-13	11072013-003.SSF	401784.6211	19620
722116.787	4294330.494	4468	07-Nov-13	11072013-003.SSF	401785.6162	19621
722116.771	4294329.786	4725	07-Nov-13	11072013-003.SSF	401786.6338	19622
722116.445	4294329.267	4795	07-Nov-13	11072013-003.SSF	401787.6118	19623
722116.058	4294328.692	5277	07-Nov-13	11072013-003.SSF	401788.604	19624
722115.901	4294328.188	5068	07-Nov-13	11072013-003.SSF	401789.603	19625
722116.05	4294327.909	4973	07-Nov-13	11072013-003.SSF	401790.6279	19626
722116.166	4294327.702	5272	07-Nov-13	11072013-003.SSF	401791.6211	19627
722116.091	4294327.459	5043	07-Nov-13	11072013-003.SSF	401792.6401	19628
722116.075	4294327.26	4382	07-Nov-13	11072013-003.SSF	401793.542	19629
722116.197	4294327.037	4474	07-Nov-13	11072013-003.SSF	401794.6919	19630
722116.448	4294326.864	4812	07-Nov-13	11072013-003.SSF	401795.6621	19631
722116.845	4294326.658	4829	07-Nov-13	11072013-003.SSF	401796.7119	19632
722116.824	4294326.501	4554	07-Nov-13	11072013-003.SSF	401797.6108	19633
722116.541	4294326.485	4616	07-Nov-13	11072013-003.SSF	401798.647	19634
722116.438	4294326.442	4974	07-Nov-13	11072013-003.SSF	401799.6558	19635
722116.503	4294326.381	4770	07-Nov-13	11072013-003.SSF	401800.6382	19636
722116.588	4294326.449	4573	07-Nov-13	11072013-003.SSF	401801.5801	19637
722116.655	4294326.577	4905	07-Nov-13	11072013-003.SSF	401802.604	19638
722116.693	4294326.389	4506	07-Nov-13	11072013-003.SSF	401803.6152	19639
722116.546	4294325.897	5242	07-Nov-13	11072013-003.SSF	401804.6162	19640
722116.273	4294325.633	4913	07-Nov-13	11072013-003.SSF	401805.6011	19641
722116.195	4294325.774	4886	07-Nov-13	11072013-003.SSF	401806.6221	19642
722116.347	4294325.987	4998	07-Nov-13	11072013-003.SSF	401807.603	19643
722116.432	4294326.193	4919	07-Nov-13	11072013-003.SSF	401808.6519	19644
722116.405	4294326.407	5392	07-Nov-13	11072013-003.SSF	401809.6348	19645
722116.426	4294326.438	5320	07-Nov-13	11072013-003.SSF	401810.6138	19646
722116.431	4294326.322	4927	07-Nov-13	11072013-003.SSF	401811.5508	19647
722116.354	4294326.3	5411	07-Nov-13	11072013-003.SSF	401812.6221	19648
722116.327	4294326.359	4859	07-Nov-13	11072013-003.SSF	401813.5542	19649
722116.423	4294326.353	4616	07-Nov-13	11072013-003.SSF	401814.6982	19650

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722116.615	4294326.181	4921	07-Nov-13	11072013-003.SSF	401816.731	19652
722116.632	4294326.148	5491	07-Nov-13	11072013-003.SSF	401817.5498	19653
722116.623	4294326.119	4941	07-Nov-13	11072013-003.SSF	401818.6841	19654
722116.629	4294326.102	4834	07-Nov-13	11072013-003.SSF	401819.5659	19655
722116.67	4294326.173	4789	07-Nov-13	11072013-003.SSF	401820.6099	19656
722116.714	4294326.309	4726	07-Nov-13	11072013-003.SSF	401821.5508	19657
722116.736	4294326.414	4968	07-Nov-13	11072013-003.SSF	401822.6001	19658
722116.758	4294326.441	4774	07-Nov-13	11072013-003.SSF	401823.498	19659
722116.794	4294326.437	4808	07-Nov-13	11072013-003.SSF	401824.5791	19660
722116.808	4294326.419	4684	07-Nov-13	11072013-003.SSF	401825.5571	19661
722116.83	4294326.408	4885	07-Nov-13	11072013-003.SSF	401826.6982	19662
722116.853	4294326.394	4720	07-Nov-13	11072013-003.SSF	401827.5542	19663
722116.881	4294326.348	4710	07-Nov-13	11072013-003.SSF	401828.6992	19664
722116.921	4294326.311	4284	07-Nov-13	11072013-003.SSF	401829.561	19665
722116.955	4294326.267	4450	07-Nov-13	11072013-003.SSF	401830.6572	19666
722116.942	4294326.168	4588	07-Nov-13	11072013-003.SSF	401831.5332	19667
722116.919	4294326.033	4928	07-Nov-13	11072013-003.SSF	401832.5698	19668
722116.911	4294325.983	5044	07-Nov-13	11072013-003.SSF	401833.5752	19669
722116.917	4294325.953	5485	07-Nov-13	11072013-003.SSF	401834.5908	19670
722116.876	4294325.959	5103	07-Nov-13	11072013-003.SSF	401835.5962	19671
722116.816	4294326.033	5588	07-Nov-13	11072013-003.SSF	401836.6699	19672
722116.719	4294326.015	5280	07-Nov-13	11072013-003.SSF	401837.5239	19673
722116.52	4294325.95	4748	07-Nov-13	11072013-003.SSF	401838.688	19674
722116.489	4294325.94	5003	07-Nov-13	11072013-003.SSF	401839.5439	19675
722116.507	4294325.946	4681	07-Nov-13	11072013-003.SSF	401840.6631	19676
722116.526	4294326.004	4658	07-Nov-13	11072013-003.SSF	401841.5039	19677
722116.839	4294326.242	4623	07-Nov-13	11072013-003.SSF	401842.6362	19678
722117.292	4294326.674	5675	07-Nov-13	11072013-003.SSF	401843.5811	19679
722117.564	4294327.437	6267	07-Nov-13	11072013-003.SSF	401844.668	19680
722117.75	4294328.113	7290	07-Nov-13	11072013-003.SSF	401845.5322	19681
722118.289	4294328.959	8293	07-Nov-13	11072013-003.SSF	401846.6602	19682
722118.739	4294329.743	9067	07-Nov-13	11072013-003.SSF	401847.6118	19683
722118.787	4294330.65	8625	07-Nov-13	11072013-003.SSF	401848.6689	19684
722118.638	4294331.271	8527	07-Nov-13	11072013-003.SSF	401849.5571	19685
722118.702	4294331.742	8298	07-Nov-13	11072013-003.SSF	401850.6611	19686
722118.878	4294331.882	9250	07-Nov-13	11072013-003.SSF	401851.563	19687
722118.941	4294331.97	9373	07-Nov-13	11072013-003.SSF	401852.6089	19688
722118.873	4294332.052	8790	07-Nov-13	11072013-003.SSF	401853.5991	19689
722118.794	4294332.09	8327	07-Nov-13	11072013-003.SSF	401854.6621	19690
722118.789	4294332.082	8636	07-Nov-13	11072013-003.SSF	401855.5269	19691
722118.845	4294332.065	8473	07-Nov-13	11072013-003.SSF	401856.5981	19692
722118.877	4294332.092	8816	07-Nov-13	11072013-003.SSF	401857.498	19693
722118.874	4294332.177	9054	07-Nov-13	11072013-003.SSF	401858.5972	19694
722118.962	4294332.494	8242	07-Nov-13	11072013-003.SSF	401859.5469	19695
722119.118	4294333.188	8964	07-Nov-13	11072013-003.SSF	401860.6152	19696
722119.011	4294333.974	9122	07-Nov-13	11072013-003.SSF	401861.623	19697

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722118.818	4294335.548	9415	07-Nov-13	11072013-003.SSF	401863.563	19699
722119.042	4294336.296	10261	07-Nov-13	11072013-003.SSF	401864.6929	19700
722119.144	4294336.842	9641	07-Nov-13	11072013-003.SSF	401865.5332	19701
722119.208	4294337.479	9316	07-Nov-13	11072013-003.SSF	401866.5801	19702
722119.204	4294337.953	8412	07-Nov-13	11072013-003.SSF	401867.457	19703
722119.184	4294338.52	8459	07-Nov-13	11072013-003.SSF	401868.5542	19704
722119.227	4294338.989	8883	07-Nov-13	11072013-003.SSF	401869.5439	19705
722119.265	4294339.404	8439	07-Nov-13	11072013-003.SSF	401870.668	19706
722119.332	4294339.621	8437	07-Nov-13	11072013-003.SSF	401871.606	19707
722119.437	4294339.765	8548	07-Nov-13	11072013-003.SSF	401872.6099	19708
722119.446	4294339.878	8341	07-Nov-13	11072013-003.SSF	401873.5229	19709
722119.382	4294340.145	8786	07-Nov-13	11072013-003.SSF	401874.6621	19710
722119.335	4294340.468	9240	07-Nov-13	11072013-003.SSF	401875.5249	19711
722119.293	4294340.96	9000	07-Nov-13	11072013-003.SSF	401876.563	19712
722119.214	4294341.368	8677	07-Nov-13	11072013-003.SSF	401877.4941	19713
722119.135	4294341.667	8961	07-Nov-13	11072013-003.SSF	401878.6338	19714
722119.045	4294341.839	8753	07-Nov-13	11072013-003.SSF	401879.542	19715
722118.889	4294342.175	8793	07-Nov-13	11072013-003.SSF	401880.626	19716
722118.791	4294342.546	8861	07-Nov-13	11072013-003.SSF	401881.5332	19717
722118.734	4294342.755	8719	07-Nov-13	11072013-003.SSF	401882.6299	19718
722118.545	4294342.56	8662	07-Nov-13	11072013-003.SSF	401883.5542	19719
722118.292	4294342.069	8705	07-Nov-13	11072013-003.SSF	401884.584	19720
722118.127	4294341.535	8436	07-Nov-13	11072013-003.SSF	401885.5518	19721
722118.038	4294341.063	8735	07-Nov-13	11072013-003.SSF	401886.5811	19722
722117.967	4294340.75	8491	07-Nov-13	11072013-003.SSF	401887.519	19723
722117.838	4294340.411	8586	07-Nov-13	11072013-003.SSF	401888.6479	19724
722117.784	4294340.059	8670	07-Nov-13	11072013-003.SSF	401889.5439	19725
722117.868	4294339.553	7981	07-Nov-13	11072013-003.SSF	401890.6421	19726
722117.921	4294339.21	8982	07-Nov-13	11072013-003.SSF	401891.562	19727
722117.602	4294338.982	8637	07-Nov-13	11072013-003.SSF	401892.603	19728
722117.247	4294339.036	8968	07-Nov-13	11072013-003.SSF	401893.5088	19729
722117.273	4294339.52	9132	07-Nov-13	11072013-003.SSF	401894.6528	19730
722117.401	4294339.994	8947	07-Nov-13	11072013-003.SSF	401895.5518	19731
722117.473	4294340.469	8700	07-Nov-13	11072013-003.SSF	401896.6411	19732
722117.502	4294340.903	8501	07-Nov-13	11072013-003.SSF	401897.5239	19733
722117.546	4294341.386	8194	07-Nov-13	11072013-003.SSF	401898.6099	19734
722117.513	4294341.852	7264	07-Nov-13	11072013-003.SSF	401899.5342	19735
722117.597	4294342.424	7641	07-Nov-13	11072013-003.SSF	401900.6328	19736
722117.847	4294342.945	7680	07-Nov-13	11072013-003.SSF	401901.5508	19737
722118.111	4294343.322	7972	07-Nov-13	11072013-003.SSF	401902.5698	19738
722118.391	4294343.461	8542	07-Nov-13	11072013-003.SSF	401903.4888	19739
722118.801	4294343.575	8585	07-Nov-13	11072013-003.SSF	401904.5962	19740
722119.111	4294343.597	8399	07-Nov-13	11072013-003.SSF	401905.5479	19741
722119.43	4294343.539	8804	07-Nov-13	11072013-003.SSF	401906.5781	19742
722119.804	4294343.396	9025	07-Nov-13	11072013-003.SSF	401907.5308	19743
722120.287	4294343.293	8661	07-Nov-13	11072013-003.SSF	401908.6528	19744

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722120.132	4294343.299	9280	07-Nov-13	11072013-003.SSF	401910.5562	19746
722120.204	4294343.111	8482	07-Nov-13	11072013-003.SSF	401911.5029	19747
722120.58	4294342.802	9211	07-Nov-13	11072013-003.SSF	401912.564	19748
722120.85	4294342.6	8954	07-Nov-13	11072013-003.SSF	401913.4702	19749
722120.914	4294342.473	9139	07-Nov-13	11072013-003.SSF	401914.5908	19750
722120.925	4294342.444	9123	07-Nov-13	11072013-003.SSF	401915.584	19751
722121.034	4294342.328	8829	07-Nov-13	11072013-003.SSF	401916.6318	19752
722121.202	4294342.125	9391	07-Nov-13	11072013-003.SSF	401917.5791	19753
722121.463	4294341.788	8987	07-Nov-13	11072013-003.SSF	401918.6528	19754
722121.885	4294341.515	9405	07-Nov-13	11072013-003.SSF	401919.5708	19755
722122.264	4294341.244	8913	07-Nov-13	11072013-003.SSF	401920.543	19756
722122.339	4294341.019	8403	07-Nov-13	11072013-003.SSF	401921.479	19757
722122.318	4294340.86	8702	07-Nov-13	11072013-003.SSF	401922.6138	19758
722122.347	4294340.794	8952	07-Nov-13	11072013-003.SSF	401923.4541	19759
722122.343	4294340.748	8710	07-Nov-13	11072013-003.SSF	401924.582	19760
722122.332	4294340.715	9017	07-Nov-13	11072013-003.SSF	401925.5518	19761
722122.381	4294340.676	10059	07-Nov-13	11072013-003.SSF	401926.6621	19762
722122.543	4294340.636	9776	07-Nov-13	11072013-003.SSF	401927.561	19763
722122.486	4294340.436	9624	07-Nov-13	11072013-003.SSF	401928.6499	19764
722122.182	4294340.087	9808	07-Nov-13	11072013-003.SSF	401929.5459	19765
722121.84	4294339.984	8524	07-Nov-13	11072013-003.SSF	401930.646	19766
722121.563	4294340.148	9542	07-Nov-13	11072013-003.SSF	401931.4922	19767
722121.058	4294340.383	8877	07-Nov-13	11072013-003.SSF	401932.6611	19768
722120.832	4294340.361	8196	07-Nov-13	11072013-003.SSF	401933.4761	19769
722120.646	4294339.863	8413	07-Nov-13	11072013-003.SSF	401934.6299	19770
722120.562	4294339.247	8834	07-Nov-13	11072013-003.SSF	401935.543	19771
722120.605	4294338.613	8952	07-Nov-13	11072013-003.SSF	401936.6279	19772
722120.646	4294338.292	9093	07-Nov-13	11072013-003.SSF	401937.4722	19773
722120.447	4294337.956	9135	07-Nov-13	11072013-003.SSF	401938.584	19774
722119.922	4294337.712	8940	07-Nov-13	11072013-003.SSF	401939.498	19775
722119.325	4294337.722	9071	07-Nov-13	11072013-003.SSF	401940.6382	19776
722119.195	4294338.021	8455	07-Nov-13	11072013-003.SSF	401941.5259	19777
722119.164	4294338.579	8678	07-Nov-13	11072013-003.SSF	401942.6099	19778
722119.271	4294338.965	9081	07-Nov-13	11072013-003.SSF	401943.5449	19779
722119.627	4294339.103	8573	07-Nov-13	11072013-003.SSF	401944.6338	19780
722119.912	4294339.119	8835	07-Nov-13	11072013-003.SSF	401945.5171	19781
722119.976	4294338.937	8622	07-Nov-13	11072013-003.SSF	401946.6348	19782
722119.798	4294338.47	8547	07-Nov-13	11072013-003.SSF	401947.5259	19783
722119.679	4294337.584	8730	07-Nov-13	11072013-003.SSF	401948.5991	19784
722119.664	4294336.644	8923	07-Nov-13	11072013-003.SSF	401949.5488	19785
722119.319	4294335.704	9242	07-Nov-13	11072013-003.SSF	401950.5952	19786
722118.819	4294335.017	9053	07-Nov-13	11072013-003.SSF	401951.4951	19787
722118.434	4294334.193	8902	07-Nov-13	11072013-003.SSF	401952.562	19788
722118.359	4294333.421	8472	07-Nov-13	11072013-003.SSF	401953.4331	19789
722118.184	4294332.305	8726	07-Nov-13	11072013-003.SSF	401954.5649	19790
722117.801	4294331.415	8763	07-Nov-13	11072013-003.SSF	401955.5298	19791

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722118.011	4294328.376	7915	07-Nov-13	11072013-003.SSF	401958.6421	19794
722117.781	4294327.627	8112	07-Nov-13	11072013-003.SSF	401959.5249	19795
722117.194	4294326.805	7810	07-Nov-13	11072013-003.SSF	401960.6602	19796
722116.728	4294326.286	6846	07-Nov-13	11072013-003.SSF	401961.52	19797
722116.346	4294325.852	6641	07-Nov-13	11072013-003.SSF	401962.6191	19798
722116.344	4294325.732	5820	07-Nov-13	11072013-003.SSF	401963.519	19799
722116.447	4294325.806	5546	07-Nov-13	11072013-003.SSF	401964.5972	19800
722116.459	4294325.958	5032	07-Nov-13	11072013-003.SSF	401965.5381	19801
722116.498	4294326.061	4690	07-Nov-13	11072013-003.SSF	401966.6582	19802
722116.543	4294326.067	5271	07-Nov-13	11072013-003.SSF	401967.4849	19803
722116.582	4294326.058	4922	07-Nov-13	11072013-003.SSF	401968.5981	19804
722116.623	4294326.086	4883	07-Nov-13	11072013-003.SSF	401969.499	19805
722116.705	4294326.136	4712	07-Nov-13	11072013-003.SSF	401970.6479	19806
722116.728	4294326.169	4803	07-Nov-13	11072013-003.SSF	401971.4961	19807
722116.713	4294326.188	5289	07-Nov-13	11072013-003.SSF	401972.6221	19808
722116.744	4294326.162	5480	07-Nov-13	11072013-003.SSF	401973.54	19809
722116.803	4294326.144	5182	07-Nov-13	11072013-003.SSF	401974.645	19810
722116.743	4294326.232	4527	07-Nov-13	11072013-003.SSF	401975.5542	19811
722116.724	4294326.371	4279	07-Nov-13	11072013-003.SSF	401976.5562	19812
722116.871	4294326.445	4379	07-Nov-13	11072013-003.SSF	401977.4668	19813
722117.036	4294326.485	4256	07-Nov-13	11072013-003.SSF	401978.5972	19814
722117.142	4294326.531	4321	07-Nov-13	11072013-003.SSF	401979.5088	19815
722117.336	4294326.814	4455	07-Nov-13	11072013-003.SSF	401980.6372	19816
722117.343	4294326.748	4906	07-Nov-13	11072013-003.SSF	401981.5078	19817
722117.257	4294326.187	5160	07-Nov-13	11072013-003.SSF	401982.6431	19818
722117.292	4294325.835	5070	07-Nov-13	11072013-003.SSF	401983.5298	19819
722117.291	4294325.74	4764	07-Nov-13	11072013-003.SSF	401984.6011	19820
722117.22	4294325.92	4817	07-Nov-13	11072013-003.SSF	401985.5249	19821
722117.142	4294326.212	4607	07-Nov-13	11072013-003.SSF	401986.6372	19822
722117.209	4294326.365	4594	07-Nov-13	11072013-003.SSF	401987.5259	19823
722117.076	4294326.407	5111	07-Nov-13	11072013-003.SSF	401988.6382	19824
722117.135	4294326.495	4795	07-Nov-13	11072013-003.SSF	401989.5229	19825
722117.441	4294326.621	5344	07-Nov-13	11072013-003.SSF	401990.562	19826
722117.685	4294326.678	5196	07-Nov-13	11072013-003.SSF	401991.5479	19827
722117.796	4294326.699	5165	07-Nov-13	11072013-003.SSF	401992.6558	19828
722239.095	4294320.502	1974	07-Nov-13	11072013-004.SSF	409697.249	19830
722239.092	4294320.488	2827	07-Nov-13	11072013-004.SSF	409698.282	19831
722239.083	4294320.477	2970	07-Nov-13	11072013-004.SSF	409699.281	19832
722239.058	4294320.471	3186	07-Nov-13	11072013-004.SSF	409700.238	19833
722239.041	4294320.46	3419	07-Nov-13	11072013-004.SSF	409701.224	19834
722239.041	4294320.459	3476	07-Nov-13	11072013-004.SSF	409702.34	19835
722238.912	4294320.478	3492	07-Nov-13	11072013-004.SSF	409703.317	19836
722119.732	4294334.274	8113	07-Nov-13	11072013-004.SSF	410030.74	19837
722119.73	4294334.274	8418	07-Nov-13	11072013-004.SSF	410031.221	19838
722119.717	4294334.18	8725	07-Nov-13	11072013-004.SSF	410032.094	19839

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722119.767	4294333.922	7950	07-Nov-13	11072013-004.SSF	410033.937	19841
722119.889	4294333.752	8364	07-Nov-13	11072013-004.SSF	410035.194	19842
722119.915	4294333.666	7719	07-Nov-13	11072013-004.SSF	410036.185	19843
722119.854	4294333.824	7575	07-Nov-13	11072013-004.SSF	410037.183	19844
722119.766	4294334.019	8093	07-Nov-13	11072013-004.SSF	410038.203	19845
722119.688	4294334.106	7627	07-Nov-13	11072013-004.SSF	410039.291	19846
722119.643	4294334.149	7882	07-Nov-13	11072013-004.SSF	410040.109	19847
722119.457	4294334.017	8116	07-Nov-13	11072013-004.SSF	410041.186	19848
722119.344	4294334.025	8908	07-Nov-13	11072013-004.SSF	410042.124	19849
722119.177	4294333.936	8873	07-Nov-13	11072013-004.SSF	410043.189	19850
722119.078	4294334.13	8786	07-Nov-13	11072013-004.SSF	410044.075	19851
722119.013	4294334.325	8219	07-Nov-13	11072013-004.SSF	410045.153	19852
722119.119	4294334.349	8696	07-Nov-13	11072013-004.SSF	410046.068	19853
722119.073	4294334.365	8506	07-Nov-13	11072013-004.SSF	410047.159	19854
722119.006	4294334.336	8362	07-Nov-13	11072013-004.SSF	410048.05	19855
722118.681	4294334.241	8386	07-Nov-13	11072013-004.SSF	410049.239	19856
722118.402	4294334.184	8842	07-Nov-13	11072013-004.SSF	410050.092	19857
722118.192	4294334.208	8918	07-Nov-13	11072013-004.SSF	410051.236	19858
722118.089	4294334.257	8744	07-Nov-13	11072013-004.SSF	410052.084	19859
722118.004	4294334.317	8983	07-Nov-13	11072013-004.SSF	410053.25	19860
722118.029	4294334.323	8795	07-Nov-13	11072013-004.SSF	410054.067	19861
722118.154	4294334.322	8960	07-Nov-13	11072013-004.SSF	410055.239	19862
722118.143	4294334.27	8505	07-Nov-13	11072013-004.SSF	410056.057	19863
722118.113	4294334.132	8759	07-Nov-13	11072013-004.SSF	410057.249	19864
722118.047	4294334.019	8264	07-Nov-13	11072013-004.SSF	410058.169	19865
722117.849	4294333.895	8309	07-Nov-13	11072013-004.SSF	410059.269	19866
722117.669	4294333.73	8423	07-Nov-13	11072013-004.SSF	410060.258	19867
722117.521	4294333.61	8930	07-Nov-13	11072013-004.SSF	410061.267	19868
722117.294	4294333.471	8743	07-Nov-13	11072013-004.SSF	410062.097	19869
722117.024	4294333.426	8945	07-Nov-13	11072013-004.SSF	410063.187	19870
722116.847	4294333.32	8407	07-Nov-13	11072013-004.SSF	410064.175	19871
722116.886	4294333.166	8194	07-Nov-13	11072013-004.SSF	410065.181	19872
722116.803	4294333.004	8509	07-Nov-13	11072013-004.SSF	410066.053	19873
722116.641	4294332.89	7973	07-Nov-13	11072013-004.SSF	410067.112	19874
722116.548	4294332.777	8002	07-Nov-13	11072013-004.SSF	410068.108	19875
722116.505	4294332.784	8499	07-Nov-13	11072013-004.SSF	410069.125	19876
722116.417	4294332.794	8628	07-Nov-13	11072013-004.SSF	410070.067	19877
722116.432	4294332.861	8543	07-Nov-13	11072013-004.SSF	410071.146	19878
722116.464	4294332.937	8188	07-Nov-13	11072013-004.SSF	410072.1	19879
722116.548	4294333.027	8138	07-Nov-13	11072013-004.SSF	410073.14	19880
722116.543	4294333.17	7863	07-Nov-13	11072013-004.SSF	410074.131	19881
722116.637	4294333.319	8090	07-Nov-13	11072013-004.SSF	410075.172	19882
722116.796	4294333.403	8503	07-Nov-13	11072013-004.SSF	410076.101	19883
722117.006	4294333.501	8420	07-Nov-13	11072013-004.SSF	410077.179	19884
722117.149	4294333.593	8006	07-Nov-13	11072013-004.SSF	410077.999	19885
722117.315	4294333.754	8261	07-Nov-13	11072013-004.SSF	410079.24	19886

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722117.584	4294334.232	8208	07-Nov-13	11072013-004.SSF	410081.243	19888
722117.518	4294334.28	8217	07-Nov-13	11072013-004.SSF	410082.105	19889
722117.464	4294334.364	8649	07-Nov-13	11072013-004.SSF	410083.161	19890
722117.671	4294334.469	8705	07-Nov-13	11072013-004.SSF	410084.001	19891
722117.91	4294334.463	8706	07-Nov-13	11072013-004.SSF	410085.218	19892
722118.069	4294334.572	8325	07-Nov-13	11072013-004.SSF	410086.061	19893
722118.15	4294335.014	7908	07-Nov-13	11072013-004.SSF	410087.163	19894
722118.25	4294335.13	8003	07-Nov-13	11072013-004.SSF	410088.045	19895
722118.37	4294335.439	8229	07-Nov-13	11072013-004.SSF	410089.09	19896
722118.332	4294335.44	8589	07-Nov-13	11072013-004.SSF	410090.13	19897
722118.561	4294335.349	8873	07-Nov-13	11072013-004.SSF	410091.295	19898
722118.681	4294335.363	8524	07-Nov-13	11072013-004.SSF	410092.149	19899
722118.984	4294335.479	9309	07-Nov-13	11072013-004.SSF	410093.206	19900
722119.313	4294335.747	8626	07-Nov-13	11072013-004.SSF	410094.163	19901
722119.883	4294335.935	8550	07-Nov-13	11072013-004.SSF	410095.189	19902
722120.199	4294336.319	8514	07-Nov-13	11072013-004.SSF	410096.062	19903
722120.576	4294336.69	8531	07-Nov-13	11072013-004.SSF	410097.133	19904
722120.655	4294336.945	8294	07-Nov-13	11072013-004.SSF	410098.146	19905
722120.809	4294337.036	8947	07-Nov-13	11072013-004.SSF	410099.242	19906
722121.081	4294337.043	9293	07-Nov-13	11072013-004.SSF	410100.111	19907
722121.376	4294336.992	8902	07-Nov-13	11072013-004.SSF	410101.203	19908
722121.579	4294336.901	8360	07-Nov-13	11072013-004.SSF	410102.155	19909
722121.664	4294336.87	7912	07-Nov-13	11072013-004.SSF	410103.192	19910
722121.686	4294336.824	8081	07-Nov-13	11072013-004.SSF	410104.077	19911
722121.657	4294336.752	8123	07-Nov-13	11072013-004.SSF	410105.143	19912
722121.634	4294336.612	8731	07-Nov-13	11072013-004.SSF	410106.037	19913
722121.72	4294336.446	7649	07-Nov-13	11072013-004.SSF	410107.196	19914
722121.948	4294336.241	7917	07-Nov-13	11072013-004.SSF	410107.953	19915
722122.131	4294335.944	7926	07-Nov-13	11072013-004.SSF	410109.119	19916
722122.215	4294335.707	8223	07-Nov-13	11072013-004.SSF	410110.04	19917
722122.074	4294335.064	8593	07-Nov-13	11072013-004.SSF	410111.141	19918
722121.653	4294334.919	8823	07-Nov-13	11072013-004.SSF	410112.069	19919
722122.11	4294334.639	9140	07-Nov-13	11072013-004.SSF	410113.154	19920
722122.416	4294334.767	8726	07-Nov-13	11072013-004.SSF	410114.023	19921
722122.362	4294335.334	9033	07-Nov-13	11072013-004.SSF	410115.265	19922
722122.39	4294335.635	8494	07-Nov-13	11072013-004.SSF	410116.134	19923
722122.329	4294335.467	8880	07-Nov-13	11072013-004.SSF	410117.259	19924
722122.262	4294335.395	8370	07-Nov-13	11072013-004.SSF	410118.188	19925
722122.194	4294335.51	8533	07-Nov-13	11072013-004.SSF	410119.183	19926
722122.474	4294335.939	9585	07-Nov-13	11072013-004.SSF	410120.084	19927
722122.518	4294336.473	9224	07-Nov-13	11072013-004.SSF	410121.308	19928
722122.605	4294336.733	9358	07-Nov-13	11072013-004.SSF	410122.192	19929
722122.469	4294336.998	9231	07-Nov-13	11072013-004.SSF	410123.205	19930
722122.092	4294337.344	8987	07-Nov-13	11072013-004.SSF	410124.151	19931
722122.068	4294337.745	8625	07-Nov-13	11072013-004.SSF	410125.179	19932
722122.041	4294337.973	8227	07-Nov-13	11072013-004.SSF	410126.232	19933

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722122.164	4294338.194	8371	07-Nov-13	11072013-004.SSF	410128.073	19935
722122.455	4294337.881	8106	07-Nov-13	11072013-004.SSF	410129.194	19936
722122.547	4294337.736	8565	07-Nov-13	11072013-004.SSF	410130.067	19937
722122.301	4294337.983	8395	07-Nov-13	11072013-004.SSF	410131.236	19938
722122.329	4294338.195	8539	07-Nov-13	11072013-004.SSF	410132.114	19939
722121.726	4294338.899	8688	07-Nov-13	11072013-004.SSF	410133.161	19940
722121.554	4294339.433	8337	07-Nov-13	11072013-004.SSF	410134.119	19941
722121.4	4294339.772	7352	07-Nov-13	11072013-004.SSF	410135.167	19942
722121.165	4294340.291	7203	07-Nov-13	11072013-004.SSF	410136.081	19943
722121.123	4294341.013	8326	07-Nov-13	11072013-004.SSF	410137.27	19944
722121.019	4294341.615	7961	07-Nov-13	11072013-004.SSF	410138.166	19945
722120.807	4294342.468	8310	07-Nov-13	11072013-004.SSF	410139.195	19946
722120.973	4294342.847	8904	07-Nov-13	11072013-004.SSF	410140.131	19947
722120.983	4294343.55	8481	07-Nov-13	11072013-004.SSF	410141.11	19948
722120.895	4294343.979	9180	07-Nov-13	11072013-004.SSF	410142.121	19949
722120.908	4294344.229	9326	07-Nov-13	11072013-004.SSF	410143.162	19950
722120.506	4294344.722	8915	07-Nov-13	11072013-004.SSF	410144.077	19951
722119.76	4294345.339	8399	07-Nov-13	11072013-004.SSF	410145.177	19952
722119.455	4294345.644	8340	07-Nov-13	11072013-004.SSF	410146.16	19953
722119.398	4294345.679	8606	07-Nov-13	11072013-004.SSF	410147.198	19954
722118.872	4294346.379	8598	07-Nov-13	11072013-004.SSF	410148.087	19955
722118.419	4294346.561	8609	07-Nov-13	11072013-004.SSF	410149.165	19956
722118.266	4294346.573	9037	07-Nov-13	11072013-004.SSF	410150.079	19957
722118.017	4294347.144	9302	07-Nov-13	11072013-004.SSF	410151.134	19958
722117.882	4294347.619	8690	07-Nov-13	11072013-004.SSF	410152.133	19959
722117.816	4294348.012	9058	07-Nov-13	11072013-004.SSF	410153.202	19960
722117.645	4294348.127	8770	07-Nov-13	11072013-004.SSF	410154.127	19961
722117.186	4294348.328	8855	07-Nov-13	11072013-004.SSF	410155.246	19962
722116.938	4294348.512	8994	07-Nov-13	11072013-004.SSF	410156.04	19963
722115.813	4294349.106	8644	07-Nov-13	11072013-004.SSF	410157.149	19964
722115.429	4294349.349	8409	07-Nov-13	11072013-004.SSF	410158.084	19965
722115.079	4294349.94	8030	07-Nov-13	11072013-004.SSF	410159.209	19966
722115.12	4294350.679	8057	07-Nov-13	11072013-004.SSF	410160.089	19967
722114.766	4294351.695	7757	07-Nov-13	11072013-004.SSF	410161.183	19968
722114.765	4294352.324	8001	07-Nov-13	11072013-004.SSF	410162.136	19969
722114.584	4294352.788	8108	07-Nov-13	11072013-004.SSF	410163.178	19970
722114.701	4294353.091	7815	07-Nov-13	11072013-004.SSF	410164.107	19971
722114.778	4294353.5	7793	07-Nov-13	11072013-004.SSF	410165.16	19972
722114.903	4294353.996	8284	07-Nov-13	11072013-004.SSF	410166.161	19973
722114.821	4294354.691	8649	07-Nov-13	11072013-004.SSF	410167.246	19974
722114.786	4294354.87	9575	07-Nov-13	11072013-004.SSF	410168.134	19975
722114.467	4294355.262	9376	07-Nov-13	11072013-004.SSF	410169.279	19976
722119.688	4294333.24	8518	07-Nov-13	11072013-004.SSF	410780.918	19977
722119.587	4294333.261	8931	07-Nov-13	11072013-004.SSF	410781.823	19978
722119.497	4294333.269	8429	07-Nov-13	11072013-004.SSF	410782.9041	19979
722119.485	4294333.278	8393	07-Nov-13	11072013-004.SSF	410783.801	19980

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722119.482	4294333.285	8299	07-Nov-13	11072013-004.SSF	410784.903	19981
722119.47	4294333.289	8493	07-Nov-13	11072013-004.SSF	410785.832	19982
722119.439	4294333.309	8490	07-Nov-13	11072013-004.SSF	410786.925	19983
722119.455	4294333.307	8555	07-Nov-13	11072013-004.SSF	410787.828	19984
722119.465	4294333.317	8607	07-Nov-13	11072013-004.SSF	410788.96	19985
722119.474	4294333.323	8921	07-Nov-13	11072013-004.SSF	410789.858	19986
722119.48	4294333.322	8363	07-Nov-13	11072013-004.SSF	410790.827	19987
722119.47	4294333.329	8589	07-Nov-13	11072013-004.SSF	410791.7271	19988
722119.448	4294333.348	8034	07-Nov-13	11072013-004.SSF	410792.826	19989
722119.436	4294333.356	8059	07-Nov-13	11072013-004.SSF	410793.7271	19990
722119.418	4294333.365	8155	07-Nov-13	11072013-004.SSF	410794.873	19991
722119.408	4294333.376	8082	07-Nov-13	11072013-004.SSF	410795.769	19992
722119.408	4294333.392	8551	07-Nov-13	11072013-004.SSF	410796.944	19993
722119.418	4294333.391	8642	07-Nov-13	11072013-004.SSF	410797.842	19994
722119.4	4294333.411	8454	07-Nov-13	11072013-004.SSF	410798.946	19995
722119.405	4294333.414	8655	07-Nov-13	11072013-004.SSF	410799.806	19996
722119.397	4294333.427	8521	07-Nov-13	11072013-004.SSF	410800.915	19997
722119.416	4294333.426	8588	07-Nov-13	11072013-004.SSF	410801.729	19998
722120.299	4294332.779	8487	07-Nov-13	11072013-004.SSF	410817.813	19999
722120.457	4294332.706	8179	07-Nov-13	11072013-004.SSF	410818.918	20000
722120.62	4294332.609	8688	07-Nov-13	11072013-004.SSF	410819.7841	20001
722120.938	4294332.374	8547	07-Nov-13	11072013-004.SSF	410820.941	20002
722121.1	4294332.237	8505	07-Nov-13	11072013-004.SSF	410821.8149	20003
722121.279	4294332.105	8526	07-Nov-13	11072013-004.SSF	410822.939	20004
722121.357	4294332.046	8936	07-Nov-13	11072013-004.SSF	410823.823	20005
722121.569	4294331.919	9166	07-Nov-13	11072013-004.SSF	410824.9399	20006
722121.609	4294331.902	9296	07-Nov-13	11072013-004.SSF	410825.816	20007
722121.568	4294331.798	8979	07-Nov-13	11072013-004.SSF	410826.938	20008
722121.469	4294331.857	8830	07-Nov-13	11072013-004.SSF	410827.79	20009
722121.172	4294332.109	8349	07-Nov-13	11072013-004.SSF	410828.864	20010
722120.851	4294332.397	8131	07-Nov-13	11072013-004.SSF	410829.855	20011
722120.567	4294332.504	8114	07-Nov-13	11072013-004.SSF	410830.913	20012
722120.462	4294332.508	8621	07-Nov-13	11072013-004.SSF	410831.839	20013
722120.445	4294332.464	8412	07-Nov-13	11072013-004.SSF	410832.8409	20014
722119.778	4294332.664	8220	07-Nov-13	11072013-004.SSF	410851.7531	20015
722119.847	4294332.594	8223	07-Nov-13	11072013-004.SSF	410852.9041	20016
722119.895	4294332.517	8653	07-Nov-13	11072013-004.SSF	410853.759	20017
722119.946	4294332.424	8377	07-Nov-13	11072013-004.SSF	410854.837	20018
722119.992	4294332.368	8402	07-Nov-13	11072013-004.SSF	410855.803	20019
722120.094	4294332.286	8011	07-Nov-13	11072013-004.SSF	410856.814	20020
722120.176	4294332.24	8324	07-Nov-13	11072013-004.SSF	410857.7581	20021
722120.283	4294332.212	8207	07-Nov-13	11072013-004.SSF	410858.924	20022
722120.237	4294332.236	8501	07-Nov-13	11072013-004.SSF	410859.811	20023
722120.182	4294332.255	8232	07-Nov-13	11072013-004.SSF	410860.925	20024
722120.205	4294332.225	8433	07-Nov-13	11072013-004.SSF	410861.754	20025
722120.278	4294332.037	8411	07-Nov-13	11072013-004.SSF	410862.847	20026
722120.37	4294331.751	8796	07-Nov-13	11072013-004.SSF	410863.802	20027

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722120.329	4294331.594	8622	07-Nov-13	11072013-004.SSF	410864.885	20028
722120.545	4294331.394	8660	07-Nov-13	11072013-004.SSF	410865.795	20029
722121.001	4294331.076	8673	07-Nov-13	11072013-004.SSF	410866.8781	20030
722121.261	4294330.928	8749	07-Nov-13	11072013-004.SSF	410867.762	20031
722121.594	4294330.663	8461	07-Nov-13	11072013-004.SSF	410868.879	20032
722121.629	4294330.339	8322	07-Nov-13	11072013-004.SSF	410869.736	20033
722121.638	4294329.794	8239	07-Nov-13	11072013-004.SSF	410871.781	20034
722121.906	4294329.72	8392	07-Nov-13	11072013-004.SSF	410872.885	20035
722122.062	4294329.915	7983	07-Nov-13	11072013-004.SSF	410873.755	20036
722121.936	4294331.234	8662	07-Nov-13	11072013-004.SSF	410880.92	20037
722121.955	4294331.329	9192	07-Nov-13	11072013-004.SSF	410881.78	20038
722117.924	4294333.255	8056	07-Nov-13	11072013-004.SSF	410900.8	20039
722117.899	4294333.449	8146	07-Nov-13	11072013-004.SSF	410901.7531	20040
722117.994	4294333.59	8317	07-Nov-13	11072013-004.SSF	410902.79	20041
722118.071	4294333.617	8181	07-Nov-13	11072013-004.SSF	410903.718	20042
722118.034	4294334.148	8651	07-Nov-13	11072013-004.SSF	410904.792	20043
722118.058	4294334.575	8586	07-Nov-13	11072013-004.SSF	410905.799	20044
722118.133	4294334.821	7882	07-Nov-13	11072013-004.SSF	410906.885	20045
722118.233	4294334.936	7591	07-Nov-13	11072013-004.SSF	410907.828	20046
722118.374	4294334.923	7930	07-Nov-13	11072013-004.SSF	410908.911	20047
722118.429	4294335.201	7775	07-Nov-13	11072013-004.SSF	410909.863	20048
722118.437	4294335.576	7793	07-Nov-13	11072013-004.SSF	410910.922	20049
722118.456	4294335.735	8494	07-Nov-13	11072013-004.SSF	410911.801	20050
722118.584	4294335.763	8467	07-Nov-13	11072013-004.SSF	410912.923	20051
722118.704	4294335.749	8678	07-Nov-13	11072013-004.SSF	410913.8199	20052
722118.748	4294335.791	8729	07-Nov-13	11072013-004.SSF	410914.924	20053
722118.748	4294335.891	9260	07-Nov-13	11072013-004.SSF	410915.8101	20054
722118.65	4294335.822	8831	07-Nov-13	11072013-004.SSF	410916.885	20055
722118.565	4294335.822	8282	07-Nov-13	11072013-004.SSF	410917.771	20056
722118.525	4294335.698	8461	07-Nov-13	11072013-004.SSF	410918.843	20057
722118.544	4294335.707	8884	07-Nov-13	11072013-004.SSF	410919.75	20058
722118.532	4294335.669	8672	07-Nov-13	11072013-004.SSF	410920.873	20059
722118.465	4294335.628	8358	07-Nov-13	11072013-004.SSF	410921.728	20060
722118.545	4294335.435	8324	07-Nov-13	11072013-004.SSF	410922.8199	20061
722118.794	4294335.217	8679	07-Nov-13	11072013-004.SSF	410923.772	20062
722119.25	4294335.058	8317	07-Nov-13	11072013-004.SSF	410924.843	20063
722117.957	4294347.398	8410	07-Nov-13	11072013-004.SSF	410974.8409	20064
722117.763	4294348.277	8301	07-Nov-13	11072013-004.SSF	410975.726	20065
722116.478	4294355.037	9630	07-Nov-13	11072013-004.SSF	410986.813	20066
722116.483	4294355.595	9032	07-Nov-13	11072013-004.SSF	410987.728	20067
722116.447	4294356.197	8665	07-Nov-13	11072013-004.SSF	410988.756	20068
722116.175	4294356.541	9104	07-Nov-13	11072013-004.SSF	410989.71	20069
722115.735	4294356.887	8676	07-Nov-13	11072013-004.SSF	410990.824	20070
722115.337	4294357.294	8570	07-Nov-13	11072013-004.SSF	410991.7209	20071
722115.078	4294357.798	8795	07-Nov-13	11072013-004.SSF	410992.813	20072
722114.89	4294358.15	8517	07-Nov-13	11072013-004.SSF	410993.761	20073
722114.635	4294358.244	8556	07-Nov-13	11072013-004.SSF	410994.813	20074

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722115.031	4294358.444	8600	07-Nov-13	11072013-004.SSF	410995.707	20075
722115.801	4294359.003	8482	07-Nov-13	11072013-004.SSF	410996.781	20076
722116.287	4294359.389	8679	07-Nov-13	11072013-004.SSF	410997.681	20077
722116.984	4294359.957	8932	07-Nov-13	11072013-004.SSF	410998.797	20078
722117.228	4294360.922	9366	07-Nov-13	11072013-004.SSF	410999.748	20079
722117.644	4294362.164	8861	07-Nov-13	11072013-004.SSF	411000.811	20080
722117.41	4294362.953	8509	07-Nov-13	11072013-004.SSF	411001.769	20081
722116.949	4294363.421	8289	07-Nov-13	11072013-004.SSF	411002.868	20082
722116.738	4294363.723	8187	07-Nov-13	11072013-004.SSF	411003.723	20083
722116.622	4294363.749	8963	07-Nov-13	11072013-004.SSF	411004.811	20084
722116.474	4294363.886	8911	07-Nov-13	11072013-004.SSF	411005.715	20085
722116.395	4294363.98	9092	07-Nov-13	11072013-004.SSF	411006.834	20086
722116.236	4294364.228	9344	07-Nov-13	11072013-004.SSF	411007.793	20087
722116.294	4294364.847	9096	07-Nov-13	11072013-004.SSF	411008.807	20088
722115.958	4294365.138	9001	07-Nov-13	11072013-004.SSF	411009.772	20089
722115.597	4294365.099	8985	07-Nov-13	11072013-004.SSF	411010.8361	20090
722115.291	4294365.1	8959	07-Nov-13	11072013-004.SSF	411011.684	20091
722115.006	4294364.968	9240	07-Nov-13	11072013-004.SSF	411012.823	20092
722114.69	4294364.837	9097	07-Nov-13	11072013-004.SSF	411013.708	20093
722114.47	4294364.631	8994	07-Nov-13	11072013-004.SSF	411014.812	20094
722114.337	4294364.436	8434	07-Nov-13	11072013-004.SSF	411015.72	20095
722114.202	4294364.109	8366	07-Nov-13	11072013-004.SSF	411016.775	20096
722113.944	4294363.873	8508	07-Nov-13	11072013-004.SSF	411017.755	20097
722113.729	4294363.805	8746	07-Nov-13	11072013-004.SSF	411018.845	20098
722113.568	4294363.847	8857	07-Nov-13	11072013-004.SSF	411019.7271	20099
722113.388	4294363.782	8679	07-Nov-13	11072013-004.SSF	411020.8571	20100
722113.197	4294363.671	8692	07-Nov-13	11072013-004.SSF	411021.754	20101
722113.091	4294364.242	8812	07-Nov-13	11072013-004.SSF	411022.804	20102
722112.965	4294364.316	8376	07-Nov-13	11072013-004.SSF	411023.766	20103
722112.654	4294364.741	8649	07-Nov-13	11072013-004.SSF	411024.879	20104
722112.338	4294364.498	8667	07-Nov-13	11072013-004.SSF	411025.72	20105
722112.046	4294364.141	8573	07-Nov-13	11072013-004.SSF	411026.796	20106
722111.876	4294363.809	9150	07-Nov-13	11072013-004.SSF	411027.689	20107
722111.784	4294363.833	8956	07-Nov-13	11072013-004.SSF	411028.778	20108
722111.697	4294363.655	9185	07-Nov-13	11072013-004.SSF	411029.6899	20109
722111.442	4294363.043	9067	07-Nov-13	11072013-004.SSF	411030.821	20110
722111.188	4294362.357	9300	07-Nov-13	11072013-004.SSF	411031.7209	20111
722110.974	4294362.039	9311	07-Nov-13	11072013-004.SSF	411032.799	20112
722110.806	4294361.398	9662	07-Nov-13	11072013-004.SSF	411033.677	20113
722110.635	4294360.801	9575	07-Nov-13	11072013-004.SSF	411034.835	20114
722110.525	4294360.39	9338	07-Nov-13	11072013-004.SSF	411035.701	20115
722110.367	4294360.157	8613	07-Nov-13	11072013-004.SSF	411036.7939	20116
722110.402	4294360.046	8872	07-Nov-13	11072013-004.SSF	411037.709	20117
722110.32	4294359.663	8928	07-Nov-13	11072013-004.SSF	411038.826	20118
722110.304	4294359.452	9012	07-Nov-13	11072013-004.SSF	411039.707	20119
722110.334	4294359.014	8789	07-Nov-13	11072013-004.SSF	411040.812	20120
722110.451	4294358.742	8919	07-Nov-13	11072013-004.SSF	411041.7061	20121

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722110.525	4294358.243	8512	07-Nov-13	11072013-004.SSF	411042.813	20122
722110.625	4294357.819	8988	07-Nov-13	11072013-004.SSF	411043.762	20123
722110.801	4294357.22	8745	07-Nov-13	11072013-004.SSF	411044.826	20124
722110.936	4294356.587	9029	07-Nov-13	11072013-004.SSF	411045.7111	20125
722111.207	4294355.949	8904	07-Nov-13	11072013-004.SSF	411046.8199	20126
722111.317	4294355.655	9103	07-Nov-13	11072013-004.SSF	411047.723	20127
722111.471	4294355.179	9823	07-Nov-13	11072013-004.SSF	411048.812	20128
722111.635	4294354.522	9418	07-Nov-13	11072013-004.SSF	411049.704	20129
722111.846	4294353.758	9227	07-Nov-13	11072013-004.SSF	411050.796	20130
722111.839	4294353.421	9083	07-Nov-13	11072013-004.SSF	411051.73	20131
722111.896	4294352.891	8881	07-Nov-13	11072013-004.SSF	411052.796	20132
722111.922	4294352.435	8798	07-Nov-13	11072013-004.SSF	411053.667	20133
722112.081	4294351.912	8384	07-Nov-13	11072013-004.SSF	411054.775	20134
722112.212	4294351.579	8548	07-Nov-13	11072013-004.SSF	411055.714	20135
722112.411	4294351.029	8611	07-Nov-13	11072013-004.SSF	411056.843	20136
722112.492	4294350.771	9118	07-Nov-13	11072013-004.SSF	411057.775	20137
722112.746	4294350.2	9246	07-Nov-13	11072013-004.SSF	411058.855	20138
722113.002	4294349.771	9723	07-Nov-13	11072013-004.SSF	411059.724	20139
722113.364	4294349.218	9392	07-Nov-13	11072013-004.SSF	411060.782	20140
722113.467	4294348.919	9055	07-Nov-13	11072013-004.SSF	411061.679	20141
722113.649	4294348.59	9106	07-Nov-13	11072013-004.SSF	411062.756	20142
722113.804	4294348.278	8474	07-Nov-13	11072013-004.SSF	411063.728	20143
722114.095	4294347.994	8824	07-Nov-13	11072013-004.SSF	411064.728	20144
722114.442	4294347.842	8923	07-Nov-13	11072013-004.SSF	411065.707	20145
722114.655	4294347.311	8672	07-Nov-13	11072013-004.SSF	411066.807	20146
722114.968	4294346.607	8958	07-Nov-13	11072013-004.SSF	411067.707	20147
722115.203	4294345.861	8774	07-Nov-13	11072013-004.SSF	411068.8409	20148
722115.35	4294345.49	8737	07-Nov-13	11072013-004.SSF	411069.741	20149
722115.522	4294344.993	8477	07-Nov-13	11072013-004.SSF	411070.818	20150
722115.679	4294344.504	8593	07-Nov-13	11072013-004.SSF	411071.718	20151
722115.858	4294344.074	8756	07-Nov-13	11072013-004.SSF	411072.7939	20152
722116.082	4294343.947	8608	07-Nov-13	11072013-004.SSF	411073.691	20153
722116.383	4294343.624	8877	07-Nov-13	11072013-004.SSF	411074.778	20154
722116.402	4294343.034	8585	07-Nov-13	11072013-004.SSF	411075.7111	20155
722116.181	4294342.266	8519	07-Nov-13	11072013-004.SSF	411076.788	20156
722116.139	4294341.939	8445	07-Nov-13	11072013-004.SSF	411077.674	20157
722116.105	4294341.765	8987	07-Nov-13	11072013-004.SSF	411078.7939	20158
722116.21	4294341.646	9015	07-Nov-13	11072013-004.SSF	411079.657	20159
722116.278	4294341.694	9316	07-Nov-13	11072013-004.SSF	411080.799	20160
722116.315	4294341.871	9477	07-Nov-13	11072013-004.SSF	411081.759	20161
722116.344	4294342.046	9208	07-Nov-13	11072013-004.SSF	411082.863	20162
722116.594	4294341.879	8975	07-Nov-13	11072013-004.SSF	411083.698	20163
722116.702	4294341.812	8633	07-Nov-13	11072013-004.SSF	411084.863	20164
722116.784	4294341.871	7991	07-Nov-13	11072013-004.SSF	411085.724	20165
722116.843	4294342.072	8312	07-Nov-13	11072013-004.SSF	411086.812	20166
722116.792	4294342.396	8373	07-Nov-13	11072013-004.SSF	411087.6949	20167
722116.718	4294342.503	8302	07-Nov-13	11072013-004.SSF	411088.761	20168

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722116.612	4294342.646	8360	07-Nov-13	11072013-004.SSF	411089.696	20169
722116.523	4294342.748	7950	07-Nov-13	11072013-004.SSF	411090.819	20170
722116.426	4294342.907	8994	07-Nov-13	11072013-004.SSF	411091.726	20171
722116.337	4294343.139	9237	07-Nov-13	11072013-004.SSF	411092.7791	20172
722116.315	4294343.071	9463	07-Nov-13	11072013-004.SSF	411093.738	20173
722116.558	4294342.716	9208	07-Nov-13	11072013-004.SSF	411094.783	20174
722116.719	4294342.217	9042	07-Nov-13	11072013-004.SSF	411095.686	20175
722117.037	4294341.681	9068	07-Nov-13	11072013-004.SSF	411096.723	20176
722117.35	4294341.4	8993	07-Nov-13	11072013-004.SSF	411097.637	20177
722117.606	4294341.186	8763	07-Nov-13	11072013-004.SSF	411098.717	20178
722117.721	4294341.043	8559	07-Nov-13	11072013-004.SSF	411099.715	20179
722117.685	4294341.049	8775	07-Nov-13	11072013-004.SSF	411100.864	20180
722117.736	4294341.103	8775	07-Nov-13	11072013-004.SSF	411101.774	20181
722117.703	4294341.365	8948	07-Nov-13	11072013-004.SSF	411102.801	20182
722117.57	4294341.561	9233	07-Nov-13	11072013-004.SSF	411103.7	20183
722117.561	4294341.619	9168	07-Nov-13	11072013-004.SSF	411104.802	20184
722117.659	4294341.466	9447	07-Nov-13	11072013-004.SSF	411105.7	20185
722117.774	4294341.168	8644	07-Nov-13	11072013-004.SSF	411106.772	20186
722117.795	4294341.039	8995	07-Nov-13	11072013-004.SSF	411107.756	20187
722117.75	4294341.191	8389	07-Nov-13	11072013-004.SSF	411108.756	20188
722117.702	4294341.444	8859	07-Nov-13	11072013-004.SSF	411109.707	20189
722117.685	4294341.704	8905	07-Nov-13	11072013-004.SSF	411110.78	20190
722117.727	4294341.68	8504	07-Nov-13	11072013-004.SSF	411111.7111	20191
722117.77	4294341.834	8608	07-Nov-13	11072013-004.SSF	411112.8	20192
722117.642	4294342.002	8555	07-Nov-13	11072013-004.SSF	411113.667	20193
722111.169	4294359.498	9306	07-Nov-13	11072013-004.SSF	411165.6801	20194
722111.188	4294360.145	8969	07-Nov-13	11072013-004.SSF	411166.822	20195
722111.409	4294360.612	8930	07-Nov-13	11072013-004.SSF	411167.677	20196
722111.722	4294361.225	8705	07-Nov-13	11072013-004.SSF	411168.725	20197
722111.849	4294361.381	8879	07-Nov-13	11072013-004.SSF	411169.7061	20198
722111.946	4294361.662	8797	07-Nov-13	11072013-004.SSF	411170.78	20199
722112.179	4294361.719	8803	07-Nov-13	11072013-004.SSF	411171.658	20200
722112.499	4294361.884	8732	07-Nov-13	11072013-004.SSF	411172.715	20201
722112.765	4294361.936	8429	07-Nov-13	11072013-004.SSF	411173.708	20202
722113.25	4294362.085	8394	07-Nov-13	11072013-004.SSF	411174.811	20203
722113.275	4294362.439	7661	07-Nov-13	11072013-004.SSF	411175.714	20204
722113.12	4294362.718	7294	07-Nov-13	11072013-004.SSF	411176.778	20205
722112.916	4294363.111	6600	07-Nov-13	11072013-004.SSF	411177.735	20206
722112.953	4294363.408	6750	07-Nov-13	11072013-004.SSF	411178.79	20207
722113.419	4294363.519	6714	07-Nov-13	11072013-004.SSF	411179.671	20208
722114.292	4294363.522	6702	07-Nov-13	11072013-004.SSF	411180.786	20209
722115.258	4294364.098	6319	07-Nov-13	11072013-004.SSF	411181.71	20210
722116.259	4294364.575	6337	07-Nov-13	11072013-004.SSF	411182.734	20211
722116.744	4294364.579	6643	07-Nov-13	11072013-004.SSF	411183.6639	20212
722116.708	4294364.563	6644	07-Nov-13	11072013-004.SSF	411184.775	20213
722116.925	4294364.628	7135	07-Nov-13	11072013-004.SSF	411185.699	20214
722117.067	4294365.001	7740	07-Nov-13	11072013-004.SSF	411186.825	20215

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722117.159	4294365.271	8059	07-Nov-13	11072013-004.SSF	411187.653	20216
722117.48	4294365.513	8448	07-Nov-13	11072013-004.SSF	411188.8199	20217
722117.494	4294366.218	8502	07-Nov-13	11072013-004.SSF	411189.718	20218
722117.125	4294366.901	8547	07-Nov-13	11072013-004.SSF	411190.772	20219
722116.881	4294367.436	8092	07-Nov-13	11072013-004.SSF	411191.71	20220
722116.587	4294368.102	8504	07-Nov-13	11072013-004.SSF	411192.76	20221
722116.274	4294368.543	8159	07-Nov-13	11072013-004.SSF	411193.7111	20222
722115.895	4294369.291	7657	07-Nov-13	11072013-004.SSF	411194.79	20223
722115.626	4294369.664	7509	07-Nov-13	11072013-004.SSF	411195.661	20224
722115.053	4294370.062	7996	07-Nov-13	11072013-004.SSF	411196.704	20225
722114.676	4294370.153	7948	07-Nov-13	11072013-004.SSF	411197.663	20226
722114.08	4294370.276	8355	07-Nov-13	11072013-004.SSF	411198.724	20227
722113.728	4294370.232	8525	07-Nov-13	11072013-004.SSF	411199.59	20228
722113.598	4294370.004	8433	07-Nov-13	11072013-004.SSF	411200.709	20229
722113.579	4294369.731	8711	07-Nov-13	11072013-004.SSF	411201.66	20230
722113.545	4294369.535	8312	07-Nov-13	11072013-004.SSF	411202.724	20231
722113.438	4294369.297	8784	07-Nov-13	11072013-004.SSF	411203.676	20232
722113.039	4294368.867	9321	07-Nov-13	11072013-004.SSF	411204.748	20233
722112.847	4294368.588	9413	07-Nov-13	11072013-004.SSF	411205.647	20234
722112.483	4294368.365	8707	07-Nov-13	11072013-004.SSF	411206.675	20235
722112.341	4294367.971	9000	07-Nov-13	11072013-004.SSF	411207.632	20236
722112.035	4294367.673	9735	07-Nov-13	11072013-004.SSF	411208.7469	20237
722111.647	4294367.413	9608	07-Nov-13	11072013-004.SSF	411209.634	20238
722111.073	4294367.104	8517	07-Nov-13	11072013-004.SSF	411210.782	20239
722110.727	4294366.722	8983	07-Nov-13	11072013-004.SSF	411211.657	20240
722110.459	4294366.279	8788	07-Nov-13	11072013-004.SSF	411212.751	20241
722110.377	4294366.018	9443	07-Nov-13	11072013-004.SSF	411213.6479	20242
722110.214	4294365.868	9572	07-Nov-13	11072013-004.SSF	411214.756	20243
722110.054	4294365.551	8976	07-Nov-13	11072013-004.SSF	411215.611	20244
722109.835	4294365.164	8544	07-Nov-13	11072013-004.SSF	411216.725	20245
722109.698	4294364.985	9156	07-Nov-13	11072013-004.SSF	411217.6121	20246
722109.494	4294364.922	9058	07-Nov-13	11072013-004.SSF	411218.678	20247
722109.348	4294364.608	9595	07-Nov-13	11072013-004.SSF	411219.696	20248
722109.198	4294364.142	9739	07-Nov-13	11072013-004.SSF	411220.701	20249
722109.133	4294363.842	9686	07-Nov-13	11072013-004.SSF	411221.713	20250
722109.063	4294363.663	10338	07-Nov-13	11072013-004.SSF	411222.697	20251
722108.956	4294363.325	9355	07-Nov-13	11072013-004.SSF	411223.677	20252
722108.87	4294362.937	9312	07-Nov-13	11072013-004.SSF	411224.713	20253
722108.818	4294362.698	8965	07-Nov-13	11072013-004.SSF	411225.627	20254
722108.83	4294362.714	8740	07-Nov-13	11072013-004.SSF	411226.683	20255
722108.888	4294362.645	8966	07-Nov-13	11072013-004.SSF	411227.618	20256
722108.842	4294362.631	8943	07-Nov-13	11072013-004.SSF	411228.6689	20257
722108.715	4294362.513	9335	07-Nov-13	11072013-004.SSF	411229.6801	20258
722108.608	4294362.241	8754	07-Nov-13	11072013-004.SSF	411230.733	20259
722108.645	4294362.118	8704	07-Nov-13	11072013-004.SSF	411231.684	20260
722108.743	4294361.92	8413	07-Nov-13	11072013-004.SSF	411232.73	20261
722108.848	4294361.598	9075	07-Nov-13	11072013-004.SSF	411233.7271	20262

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722108.86	4294361.108	8892	07-Nov-13	11072013-004.SSF	411234.704	20263
722108.804	4294360.749	9007	07-Nov-13	11072013-004.SSF	411235.704	20264
722108.799	4294360.385	9386	07-Nov-13	11072013-004.SSF	411236.797	20265
722109.002	4294359.988	8497	07-Nov-13	11072013-004.SSF	411237.671	20266
722109.255	4294359.323	8717	07-Nov-13	11072013-004.SSF	411238.752	20267
722109.529	4294358.699	8338	07-Nov-13	11072013-004.SSF	411239.667	20268
722109.853	4294358.104	8230	07-Nov-13	11072013-004.SSF	411240.71	20269
722110.08	4294357.536	8199	07-Nov-13	11072013-004.SSF	411241.6949	20270
722110.377	4294356.9	8782	07-Nov-13	11072013-004.SSF	411242.681	20271
722110.577	4294356.244	8787	07-Nov-13	11072013-004.SSF	411243.667	20272
722110.77	4294355.618	9300	07-Nov-13	11072013-004.SSF	411244.725	20273
722110.945	4294354.925	9116	07-Nov-13	11072013-004.SSF	411245.713	20274
722111.179	4294354.405	8593	07-Nov-13	11072013-004.SSF	411246.6899	20275
722111.316	4294353.806	8943	07-Nov-13	11072013-004.SSF	411247.665	20276
722111.34	4294353.134	8413	07-Nov-13	11072013-004.SSF	411248.7469	20277
722111.309	4294352.519	9112	07-Nov-13	11072013-004.SSF	411249.666	20278
722111.451	4294351.87	9520	07-Nov-13	11072013-004.SSF	411250.6479	20279
722111.693	4294351.165	9180	07-Nov-13	11072013-004.SSF	411251.644	20280
722112.02	4294350.891	9071	07-Nov-13	11072013-004.SSF	411252.668	20281
722112.219	4294350.614	8710	07-Nov-13	11072013-004.SSF	411253.645	20282
722112.498	4294350.174	8672	07-Nov-13	11072013-004.SSF	411254.641	20283
722112.75	4294349.977	8395	07-Nov-13	11072013-004.SSF	411255.696	20284
722112.972	4294349.933	8000	07-Nov-13	11072013-004.SSF	411256.791	20285
722113.134	4294349.339	8272	07-Nov-13	11072013-004.SSF	411257.667	20286
722113.182	4294348.795	8853	07-Nov-13	11072013-004.SSF	411258.75	20287
722113.254	4294348.108	8895	07-Nov-13	11072013-004.SSF	411259.653	20288
722113.596	4294347.027	8385	07-Nov-13	11072013-004.SSF	411260.7159	20289
722113.848	4294346.078	8999	07-Nov-13	11072013-004.SSF	411261.691	20290
722114.092	4294345.27	9277	07-Nov-13	11072013-004.SSF	411262.7159	20291
722114.279	4294344.635	8743	07-Nov-13	11072013-004.SSF	411263.616	20292
722114.582	4294343.866	8120	07-Nov-13	11072013-004.SSF	411264.731	20293
722114.759	4294343.403	8812	07-Nov-13	11072013-004.SSF	411265.635	20294
722114.714	4294342.743	8662	07-Nov-13	11072013-004.SSF	411266.733	20295
722114.695	4294342.843	8817	07-Nov-13	11072013-004.SSF	411267.619	20296
722114.539	4294342.632	8844	07-Nov-13	11072013-004.SSF	411268.719	20297
722114.517	4294341.958	9310	07-Nov-13	11072013-004.SSF	411269.667	20298
722114.633	4294341.482	8409	07-Nov-13	11072013-004.SSF	411270.722	20299
722114.75	4294341.182	8090	07-Nov-13	11072013-004.SSF	411271.572	20300
722115.255	4294340.556	8510	07-Nov-13	11072013-004.SSF	411272.723	20301
722115.762	4294340.008	9070	07-Nov-13	11072013-004.SSF	411273.5811	20302
722116.246	4294339.414	8926	07-Nov-13	11072013-004.SSF	411274.735	20303
722116.652	4294338.816	8418	07-Nov-13	11072013-004.SSF	411275.7111	20304
722117.311	4294338.112	8673	07-Nov-13	11072013-004.SSF	411276.792	20305
722117.53	4294337.831	8876	07-Nov-13	11072013-004.SSF	411277.657	20306
722118.196	4294337.258	8742	07-Nov-13	11072013-004.SSF	411278.797	20307
722118.349	4294337.222	8892	07-Nov-13	11072013-004.SSF	411279.7419	20308
722118.667	4294337.408	8879	07-Nov-13	11072013-004.SSF	411280.7531	20309

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722118.73	4294337.639	8872	07-Nov-13	11072013-004.SSF	411281.687	20310
722118.907	4294337.878	9273	07-Nov-13	11072013-004.SSF	411282.756	20311
722118.987	4294337.988	9558	07-Nov-13	11072013-004.SSF	411283.677	20312
722119.283	4294338.292	9126	07-Nov-13	11072013-004.SSF	411284.723	20313
722119.216	4294338.699	9101	07-Nov-13	11072013-004.SSF	411285.666	20314
722119.156	4294339.246	9101	07-Nov-13	11072013-004.SSF	411286.749	20315
722119.094	4294339.617	8569	07-Nov-13	11072013-004.SSF	411287.707	20316
722118.852	4294340.344	8975	07-Nov-13	11072013-004.SSF	411288.75	20317
722118.813	4294340.74	8891	07-Nov-13	11072013-004.SSF	411289.6591	20318
722118.883	4294341.262	9049	07-Nov-13	11072013-004.SSF	411290.771	20319
722118.78	4294341.641	9163	07-Nov-13	11072013-004.SSF	411291.655	20320
722118.745	4294342.135	9069	07-Nov-13	11072013-004.SSF	411292.7159	20321
722118.492	4294342.522	8783	07-Nov-13	11072013-004.SSF	411293.671	20322
722118.345	4294342.828	8578	07-Nov-13	11072013-004.SSF	411294.793	20323
722118.17	4294343.127	8853	07-Nov-13	11072013-004.SSF	411295.733	20324
722118.065	4294343.648	8737	07-Nov-13	11072013-004.SSF	411296.746	20325
722117.838	4294344.214	8994	07-Nov-13	11072013-004.SSF	411297.697	20326
722117.543	4294344.981	8839	07-Nov-13	11072013-004.SSF	411298.772	20327
722117.183	4294345.705	8422	07-Nov-13	11072013-004.SSF	411299.724	20328
722116.814	4294346.511	8187	07-Nov-13	11072013-004.SSF	411300.772	20329
722116.452	4294347.206	8445	07-Nov-13	11072013-004.SSF	411301.635	20330
722116.097	4294347.802	9003	07-Nov-13	11072013-004.SSF	411302.799	20331
722116.033	4294347.804	9294	07-Nov-13	11072013-004.SSF	411303.639	20332
722116.077	4294347.752	9427	07-Nov-13	11072013-004.SSF	411304.718	20333
722115.924	4294348.192	9458	07-Nov-13	11072013-004.SSF	411305.655	20334
722115.8	4294348.772	9287	07-Nov-13	11072013-004.SSF	411306.693	20335
722115.704	4294349.148	9236	07-Nov-13	11072013-004.SSF	411307.6591	20336
722115.39	4294349.72	9328	07-Nov-13	11072013-004.SSF	411308.7321	20337
722115.232	4294349.912	9972	07-Nov-13	11072013-004.SSF	411309.6591	20338
722114.965	4294350.316	9907	07-Nov-13	11072013-004.SSF	411310.74	20339
722114.581	4294350.709	9472	07-Nov-13	11072013-004.SSF	411311.688	20340
722114.34	4294351.196	8771	07-Nov-13	11072013-004.SSF	411312.661	20341
722114.394	4294351.55	8953	07-Nov-13	11072013-004.SSF	411313.5909	20342
722114.401	4294351.92	9348	07-Nov-13	11072013-004.SSF	411314.751	20343
722114.487	4294352.195	9308	07-Nov-13	11072013-004.SSF	411315.6639	20344
722114.559	4294352.369	9413	07-Nov-13	11072013-004.SSF	411316.707	20345
722114.611	4294352.613	8962	07-Nov-13	11072013-004.SSF	411317.63	20346
722114.654	4294353.07	8934	07-Nov-13	11072013-004.SSF	411318.701	20347
722114.755	4294353.463	8707	07-Nov-13	11072013-004.SSF	411319.59	20348
722114.859	4294353.972	8985	07-Nov-13	11072013-004.SSF	411320.718	20349
722115.099	4294354.397	8557	07-Nov-13	11072013-004.SSF	411321.7159	20350
722115.102	4294354.777	8668	07-Nov-13	11072013-004.SSF	411322.724	20351
722115.232	4294354.96	8633	07-Nov-13	11072013-004.SSF	411323.679	20352
722115.43	4294355.344	8396	07-Nov-13	11072013-004.SSF	411324.774	20353
722115.598	4294355.754	8930	07-Nov-13	11072013-004.SSF	411325.631	20354
722115.846	4294356.317	8608	07-Nov-13	11072013-004.SSF	411326.705	20355
722116.133	4294356.79	8344	07-Nov-13	11072013-004.SSF	411327.6071	20356

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722116.516	4294357.707	7664	07-Nov-13	11072013-004.SSF	411328.692	20357
722116.742	4294358.262	8128	07-Nov-13	11072013-004.SSF	411329.625	20358
722116.882	4294358.811	6957	07-Nov-13	11072013-004.SSF	411330.738	20359
722116.943	4294359.083	6778	07-Nov-13	11072013-004.SSF	411331.6379	20360
722116.787	4294360.435	7368	07-Nov-13	11072013-004.SSF	411332.762	20361
722116.003	4294362.234	7916	07-Nov-13	11072013-004.SSF	411333.687	20362
722114.731	4294363.924	7415	07-Nov-13	11072013-004.SSF	411334.7111	20363
722113.962	4294365.127	7531	07-Nov-13	11072013-004.SSF	411335.656	20364
722113.56	4294365.46	7956	07-Nov-13	11072013-004.SSF	411336.658	20365
722113.425	4294365.436	7933	07-Nov-13	11072013-004.SSF	411337.5959	20366
722113.202	4294365.464	8415	07-Nov-13	11072013-004.SSF	411338.66	20367
722112.961	4294365.524	8445	07-Nov-13	11072013-004.SSF	411339.589	20368
722112.472	4294365.748	8223	07-Nov-13	11072013-004.SSF	411340.692	20369
722112.028	4294366.081	8120	07-Nov-13	11072013-004.SSF	411341.651	20370
722111.736	4294366.445	8445	07-Nov-13	11072013-004.SSF	411342.771	20371
722111.827	4294366.919	8703	07-Nov-13	11072013-004.SSF	411343.625	20372
722111.34	4294367.193	8188	07-Nov-13	11072013-004.SSF	411344.7159	20373
722110.983	4294367.411	8033	07-Nov-13	11072013-004.SSF	411345.657	20374
722110.472	4294367.545	8456	07-Nov-13	11072013-004.SSF	411346.707	20375
722110.331	4294368.055	9264	07-Nov-13	11072013-004.SSF	411347.655	20376
722110.094	4294368.311	8901	07-Nov-13	11072013-004.SSF	411348.6851	20377
722109.842	4294368.154	8891	07-Nov-13	11072013-004.SSF	411349.6479	20378
722109.643	4294367.971	8436	07-Nov-13	11072013-004.SSF	411350.6429	20379
722109.499	4294367.935	8533	07-Nov-13	11072013-004.SSF	411351.6219	20380
722109.307	4294367.971	8407	07-Nov-13	11072013-004.SSF	411352.65	20381
722109.175	4294368.094	7811	07-Nov-13	11072013-004.SSF	411353.575	20382
722108.846	4294368.119	8384	07-Nov-13	11072013-004.SSF	411354.642	20383
722108.531	4294368.005	8458	07-Nov-13	11072013-004.SSF	411355.687	20384
722108.329	4294367.727	8613	07-Nov-13	11072013-004.SSF	411356.722	20385
722108.14	4294367.665	9157	07-Nov-13	11072013-004.SSF	411357.668	20386
722107.849	4294367.084	9066	07-Nov-13	11072013-004.SSF	411358.733	20387
722107.777	4294366.438	8909	07-Nov-13	11072013-004.SSF	411359.6899	20388
722107.601	4294365.085	8862	07-Nov-13	11072013-004.SSF	411361.7061	20389
722107.708	4294364.727	8870	07-Nov-13	11072013-004.SSF	411362.759	20390
722107.625	4294364.401	8507	07-Nov-13	11072013-004.SSF	411363.634	20391
722107.436	4294364.067	9382	07-Nov-13	11072013-004.SSF	411364.778	20392
722107.292	4294363.678	9162	07-Nov-13	11072013-004.SSF	411365.6071	20393
722107.279	4294363.107	8829	07-Nov-13	11072013-004.SSF	411366.675	20394
722107.282	4294362.532	9173	07-Nov-13	11072013-004.SSF	411367.575	20395
722107.304	4294362.014	8370	07-Nov-13	11072013-004.SSF	411368.715	20396
722107.333	4294361.615	8495	07-Nov-13	11072013-004.SSF	411369.556	20397
722107.454	4294360.926	9084	07-Nov-13	11072013-004.SSF	411370.691	20398
722107.596	4294360.371	9249	07-Nov-13	11072013-004.SSF	411371.547	20399
722107.95	4294359.863	8885	07-Nov-13	11072013-004.SSF	411372.625	20400
722108.069	4294359.535	9573	07-Nov-13	11072013-004.SSF	411373.593	20401
722107.992	4294359.015	9037	07-Nov-13	11072013-004.SSF	411374.623	20402
722107.861	4294358.233	9388	07-Nov-13	11072013-004.SSF	411375.6949	20403

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722107.892	4294356.964	8636	07-Nov-13	11072013-004.SSF	411377.6689	20405
722107.89	4294356.467	8360	07-Nov-13	11072013-004.SSF	411378.7061	20406
722108.063	4294355.914	8452	07-Nov-13	11072013-004.SSF	411379.693	20407
722108.318	4294355.244	8129	07-Nov-13	11072013-004.SSF	411380.6801	20408
722108.608	4294354.658	8443	07-Nov-13	11072013-004.SSF	411381.658	20409
722108.998	4294353.703	8424	07-Nov-13	11072013-004.SSF	411382.681	20410
722109.241	4294352.952	8676	07-Nov-13	11072013-004.SSF	411383.657	20411
722109.593	4294352.482	8480	07-Nov-13	11072013-004.SSF	411384.7321	20412
722109.797	4294351.915	8692	07-Nov-13	11072013-004.SSF	411385.589	20413
722110.16	4294350.918	8827	07-Nov-13	11072013-004.SSF	411386.6899	20414
722110.327	4294350.338	9082	07-Nov-13	11072013-004.SSF	411387.59	20415
722110.474	4294349.834	9204	07-Nov-13	11072013-004.SSF	411388.693	20416
722110.738	4294349.467	9017	07-Nov-13	11072013-004.SSF	411389.599	20417
722110.988	4294349.025	9399	07-Nov-13	11072013-004.SSF	411390.699	20418
722111.154	4294348.636	9232	07-Nov-13	11072013-004.SSF	411391.677	20419
722111.369	4294348.499	8463	07-Nov-13	11072013-004.SSF	411392.6899	20420
722111.76	4294348.401	8338	07-Nov-13	11072013-004.SSF	411393.681	20421
722112.027	4294348.117	8365	07-Nov-13	11072013-004.SSF	411394.759	20422
722112.262	4294347.878	8568	07-Nov-13	11072013-004.SSF	411395.629	20423
722112.41	4294347.405	8929	07-Nov-13	11072013-004.SSF	411396.684	20424
722112.406	4294347.085	8877	07-Nov-13	11072013-004.SSF	411397.583	20425
722112.345	4294346.505	8961	07-Nov-13	11072013-004.SSF	411398.652	20426
722112.429	4294345.87	8520	07-Nov-13	11072013-004.SSF	411399.614	20427
722112.629	4294345.264	8857	07-Nov-13	11072013-004.SSF	411400.703	20428
722112.955	4294344.824	8477	07-Nov-13	11072013-004.SSF	411401.5861	20429
722113.267	4294344.127	8668	07-Nov-13	11072013-004.SSF	411402.705	20430
722113.336	4294343.854	8506	07-Nov-13	11072013-004.SSF	411403.663	20431
722113.36	4294343.438	8924	07-Nov-13	11072013-004.SSF	411404.657	20432
722113.38	4294342.939	9190	07-Nov-13	11072013-004.SSF	411405.598	20433
722113.337	4294342.679	8837	07-Nov-13	11072013-004.SSF	411406.613	20434
722113.338	4294342.439	8990	07-Nov-13	11072013-004.SSF	411407.629	20435
722113.399	4294342.093	8725	07-Nov-13	11072013-004.SSF	411408.621	20436
722113.449	4294341.933	8800	07-Nov-13	11072013-004.SSF	411409.543	20437
722113.536	4294341.882	8385	07-Nov-13	11072013-004.SSF	411410.592	20438
722113.719	4294341.649	8609	07-Nov-13	11072013-004.SSF	411411.558	20439
722113.956	4294341.363	8427	07-Nov-13	11072013-004.SSF	411412.681	20440
722114.086	4294341.023	8235	07-Nov-13	11072013-004.SSF	411413.564	20441
722114.249	4294340.505	8690	07-Nov-13	11072013-004.SSF	411414.637	20442
722114.432	4294340.171	8465	07-Nov-13	11072013-004.SSF	411415.595	20443
722114.63	4294340.007	8782	07-Nov-13	11072013-004.SSF	411416.7581	20444
722114.934	4294339.713	8989	07-Nov-13	11072013-004.SSF	411417.637	20445
722115.092	4294339.29	8521	07-Nov-13	11072013-004.SSF	411418.688	20446
722115.402	4294338.725	8416	07-Nov-13	11072013-004.SSF	411419.598	20447
722115.728	4294338.195	8289	07-Nov-13	11072013-004.SSF	411420.673	20448
722115.839	4294337.884	8435	07-Nov-13	11072013-004.SSF	411421.6281	20449
722116.009	4294337.349	8667	07-Nov-13	11072013-004.SSF	411422.683	20450

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722116.546	4294336.543	8371	07-Nov-13	11072013-004.SSF	411424.698	20452
722116.7	4294336.633	8766	07-Nov-13	11072013-004.SSF	411425.653	20453
722116.846	4294336.728	8531	07-Nov-13	11072013-004.SSF	411426.744	20454
722116.864	4294336.633	8683	07-Nov-13	11072013-004.SSF	411427.6331	20455
722116.867	4294336.456	8732	07-Nov-13	11072013-004.SSF	411428.713	20456
722116.897	4294336.306	8557	07-Nov-13	11072013-004.SSF	411429.681	20457
722116.926	4294336.165	8983	07-Nov-13	11072013-004.SSF	411430.7061	20458
722116.947	4294336.053	8390	07-Nov-13	11072013-004.SSF	411431.594	20459
722116.995	4294335.935	8357	07-Nov-13	11072013-004.SSF	411432.66	20460
722117.078	4294335.886	8953	07-Nov-13	11072013-004.SSF	411433.543	20461
722117.489	4294335.7	9506	07-Nov-13	11072013-004.SSF	411434.699	20462
722117.856	4294335.506	8857	07-Nov-13	11072013-004.SSF	411435.6331	20463
722118.081	4294335.328	8732	07-Nov-13	11072013-004.SSF	411436.717	20464
722118.171	4294335.237	8902	07-Nov-13	11072013-004.SSF	411437.597	20465
722118.241	4294335.163	8599	07-Nov-13	11072013-004.SSF	411438.749	20466
722118.243	4294335.134	8550	07-Nov-13	11072013-004.SSF	411439.579	20467
722118.223	4294335.093	8319	07-Nov-13	11072013-004.SSF	411440.707	20468
722118.193	4294335.078	8692	07-Nov-13	11072013-004.SSF	411441.589	20469
722118.155	4294335.122	9089	07-Nov-13	11072013-004.SSF	411442.725	20470
722118.132	4294335.173	8817	07-Nov-13	11072013-004.SSF	411443.6169	20471
722118.101	4294335.226	8972	07-Nov-13	11072013-004.SSF	411444.709	20472
722238.159	4294322.06	4697	08-Nov-13	11082013-001.SSF	481080.464	20473
722238.202	4294321.991	4532	08-Nov-13	11082013-001.SSF	481081.524	20474
722238.277	4294321.872	4604	08-Nov-13	11082013-001.SSF	481082.463	20475
722238.369	4294321.74	4277	08-Nov-13	11082013-001.SSF	481083.416	20476
722238.46	4294321.577	4176	08-Nov-13	11082013-001.SSF	481084.426	20477
722238.506	4294321.38	4081	08-Nov-13	11082013-001.SSF	481085.481	20478
722238.576	4294321.146	4193	08-Nov-13	11082013-001.SSF	481086.53	20479
722238.659	4294320.901	4055	08-Nov-13	11082013-001.SSF	481087.493	20480
722238.755	4294320.524	3934	08-Nov-13	11082013-001.SSF	481088.583	20481
722238.847	4294320.161	4282	08-Nov-13	11082013-001.SSF	481089.427	20482
722239.055	4294319.423	4749	08-Nov-13	11082013-001.SSF	481090.567	20483
722239.367	4294318.406	4546	08-Nov-13	11082013-001.SSF	481091.514	20484
722239.191	4294317.871	4695	08-Nov-13	11082013-001.SSF	481092.545	20485
722238.784	4294317.198	4785	08-Nov-13	11082013-001.SSF	481093.507	20486
722238.457	4294314.827	4679	08-Nov-13	11082013-001.SSF	481094.613	20487
722238.424	4294312.743	4477	08-Nov-13	11082013-001.SSF	481095.475	20488
722238.059	4294311.127	4648	08-Nov-13	11082013-001.SSF	481096.567	20489
722237.832	4294310.746	4587	08-Nov-13	11082013-001.SSF	481097.451	20490
722237.998	4294311.094	4357	08-Nov-13	11082013-001.SSF	481098.517	20491
722238.437	4294311.269	4161	08-Nov-13	11082013-001.SSF	481099.449	20492
722238.922	4294310.871	4073	08-Nov-13	11082013-001.SSF	481100.503	20493
722238.281	4294310.564	4105	08-Nov-13	11082013-001.SSF	481101.415	20494
722237.13	4294310.039	4579	08-Nov-13	11082013-001.SSF	481102.506	20495
722235.906	4294309.542	4301	08-Nov-13	11082013-001.SSF	481103.478	20496
722234.657	4294308.666	4406	08-Nov-13	11082013-001.SSF	481104.474	20497

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722234.258	4294307.19	4458	08-Nov-13	11082013-001.SSF	481105.397	20498
722233.965	4294305.066	4743	08-Nov-13	11082013-001.SSF	481106.481	20499
722233.673	4294303.067	4168	08-Nov-13	11082013-001.SSF	481107.398	20500
722233.423	4294300.481	4264	08-Nov-13	11082013-001.SSF	481108.489	20501
722233.254	4294298.752	4408	08-Nov-13	11082013-001.SSF	481109.407	20502
722233.282	4294297.439	4580	08-Nov-13	11082013-001.SSF	481110.48	20503
722234.423	4294302.396	4796	08-Nov-13	11082013-001.SSF	481111.41	20504
722236.145	4294313.011	5007	08-Nov-13	11082013-001.SSF	481112.501	20505
722236.562	4294315.755	4976	08-Nov-13	11082013-001.SSF	481113.457	20506
722236.72	4294316.365	4652	08-Nov-13	11082013-001.SSF	481114.56	20507
722236.817	4294316.351	4889	08-Nov-13	11082013-001.SSF	481115.355	20508
722236.908	4294316.062	4842	08-Nov-13	11082013-001.SSF	481116.468	20509
722236.952	4294315.839	4561	08-Nov-13	11082013-001.SSF	481117.42	20510
722236.993	4294315.63	4508	08-Nov-13	11082013-001.SSF	481118.492	20511
722237.022	4294315.495	4846	08-Nov-13	11082013-001.SSF	481119.416	20512
722237.043	4294315.382	4548	08-Nov-13	11082013-001.SSF	481120.485	20513
722237.036	4294315.386	4163	08-Nov-13	11082013-001.SSF	481121.388	20514
722237.038	4294315.343	4194	08-Nov-13	11082013-001.SSF	481122.466	20515
722237.107	4294314.931	3889	08-Nov-13	11082013-001.SSF	481123.424	20516
722237.184	4294314.332	3844	08-Nov-13	11082013-001.SSF	481124.511	20517
722237.218	4294313.778	4487	08-Nov-13	11082013-001.SSF	481125.43	20518
722237.216	4294313.16	4294	08-Nov-13	11082013-001.SSF	481126.52	20519
722237.236	4294312.757	4133	08-Nov-13	11082013-001.SSF	481127.407	20520
722237.28	4294312.435	4410	08-Nov-13	11082013-001.SSF	481128.429	20521
722237.275	4294312.467	4543	08-Nov-13	11082013-001.SSF	481129.354	20522
722237.265	4294312.749	4422	08-Nov-13	11082013-001.SSF	481130.488	20523
722237.273	4294312.939	4047	08-Nov-13	11082013-001.SSF	481131.463	20524
722237.301	4294312.858	4204	08-Nov-13	11082013-001.SSF	481132.528	20525
722237.278	4294312.838	4427	08-Nov-13	11082013-001.SSF	481133.493	20526
722237.221	4294312.991	4260	08-Nov-13	11082013-001.SSF	481134.499	20527
722237.201	4294312.991	4196	08-Nov-13	11082013-001.SSF	481135.449	20528
722237.181	4294312.982	4843	08-Nov-13	11082013-001.SSF	481136.523	20529
722237.17	4294312.989	4434	08-Nov-13	11082013-001.SSF	481137.498	20530
722237.157	4294313.008	4369	08-Nov-13	11082013-001.SSF	481138.494	20531
722237.149	4294312.965	4677	08-Nov-13	11082013-001.SSF	481139.493	20532
722237.155	4294312.792	4423	08-Nov-13	11082013-001.SSF	481140.581	20533
722237.13	4294312.775	4700	08-Nov-13	11082013-001.SSF	481141.438	20534
722237.095	4294312.803	4331	08-Nov-13	11082013-001.SSF	481142.529	20535
722237.085	4294312.862	4634	08-Nov-13	11082013-001.SSF	481143.51	20536
722237.144	4294312.731	4721	08-Nov-13	11082013-001.SSF	481144.509	20537
722237.197	4294312.497	4860	08-Nov-13	11082013-001.SSF	481145.396	20538
722237.166	4294312.486	4601	08-Nov-13	11082013-001.SSF	481146.549	20539
722237.172	4294312.422	4876	08-Nov-13	11082013-001.SSF	481147.423	20540
722237.176	4294312.365	4647	08-Nov-13	11082013-001.SSF	481148.534	20541
722237.178	4294312.296	4211	08-Nov-13	11082013-001.SSF	481149.406	20542
722237.178	4294312.172	4131	08-Nov-13	11082013-001.SSF	481150.505	20543
722237.173	4294312.043	4067	08-Nov-13	11082013-001.SSF	481151.46	20544

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722237.111	4294312.057	4335	08-Nov-13	11082013-001.SSF	481153.402	20546
722237.163	4294311.946	4771	08-Nov-13	11082013-001.SSF	481154.543	20547
722237.21	4294311.804	4528	08-Nov-13	11082013-001.SSF	481155.396	20548
722237.215	4294311.775	4332	08-Nov-13	11082013-001.SSF	481156.475	20549
722237.228	4294311.734	4004	08-Nov-13	11082013-001.SSF	481157.402	20550
722237.25	4294311.68	4362	08-Nov-13	11082013-001.SSF	481158.48	20551
722237.26	4294311.654	3781	08-Nov-13	11082013-001.SSF	481159.378	20552
722237.273	4294311.618	3826	08-Nov-13	11082013-001.SSF	481160.487	20553
722237.287	4294311.585	4213	08-Nov-13	11082013-001.SSF	481161.429	20554
722237.307	4294311.497	4402	08-Nov-13	11082013-001.SSF	481162.573	20555
722237.323	4294311.38	4411	08-Nov-13	11082013-001.SSF	481163.508	20556
722237.326	4294311.266	4439	08-Nov-13	11082013-001.SSF	481164.486	20557
722237.319	4294311.181	4537	08-Nov-13	11082013-001.SSF	481165.368	20558
722237.31	4294311.08	4434	08-Nov-13	11082013-001.SSF	481166.443	20559
722237.306	4294311.015	4159	08-Nov-13	11082013-001.SSF	481167.378	20560
722237.311	4294310.955	4297	08-Nov-13	11082013-001.SSF	481168.44	20561
722237.324	4294310.857	4554	08-Nov-13	11082013-001.SSF	481169.432	20562
722237.334	4294310.763	4249	08-Nov-13	11082013-001.SSF	481170.49	20563
722237.346	4294310.691	4377	08-Nov-13	11082013-001.SSF	481171.438	20564
722237.367	4294310.602	4337	08-Nov-13	11082013-001.SSF	481172.493	20565
722237.379	4294310.521	4090	08-Nov-13	11082013-001.SSF	481173.421	20566
722237.374	4294310.471	3986	08-Nov-13	11082013-001.SSF	481174.502	20567
722237.367	4294310.433	4396	08-Nov-13	11082013-001.SSF	481175.487	20568
722237.362	4294310.366	4168	08-Nov-13	11082013-001.SSF	481176.572	20569
722237.353	4294310.309	4421	08-Nov-13	11082013-001.SSF	481177.477	20570
722237.34	4294310.26	4549	08-Nov-13	11082013-001.SSF	481178.522	20571
722237.327	4294310.224	4036	08-Nov-13	11082013-001.SSF	481179.476	20572
722237.32	4294310.181	4003	08-Nov-13	11082013-001.SSF	481180.485	20573
722237.321	4294310.136	4107	08-Nov-13	11082013-001.SSF	481181.44	20574
722237.338	4294310.005	4335	08-Nov-13	11082013-001.SSF	481182.541	20575
722237.358	4294309.813	4133	08-Nov-13	11082013-001.SSF	481183.393	20576
722237.374	4294309.579	3945	08-Nov-13	11082013-001.SSF	481184.486	20577
722237.386	4294309.389	4039	08-Nov-13	11082013-001.SSF	481185.537	20578
722237.389	4294309.216	4162	08-Nov-13	11082013-001.SSF	481186.583	20579
722237.395	4294309.171	4148	08-Nov-13	11082013-001.SSF	481187.587	20580
722237.417	4294309.024	4253	08-Nov-13	11082013-001.SSF	481188.628	20581
722237.429	4294308.851	4327	08-Nov-13	11082013-001.SSF	481189.409	20582
722237.421	4294308.658	4121	08-Nov-13	11082013-001.SSF	481190.465	20583
722237.406	4294308.493	4163	08-Nov-13	11082013-001.SSF	481191.395	20584
722237.394	4294308.336	3939	08-Nov-13	11082013-001.SSF	481192.423	20585
722237.38	4294308.249	4225	08-Nov-13	11082013-001.SSF	481193.357	20586
722237.367	4294308.159	4139	08-Nov-13	11082013-001.SSF	481194.492	20587
722237.394	4294308.153	4368	08-Nov-13	11082013-001.SSF	481195.375	20588
722237.475	4294308.336	4714	08-Nov-13	11082013-001.SSF	481196.472	20589
722237.359	4294308.466	4594	08-Nov-13	11082013-001.SSF	481197.422	20590
722237.18	4294308.54	4406	08-Nov-13	11082013-001.SSF	481198.544	20591

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722237.097	4294308.825	4308	08-Nov-13	11082013-001.SSF	481199.445	20592
722236.971	4294309.041	4268	08-Nov-13	11082013-001.SSF	481200.487	20593
722236.938	4294308.914	4298	08-Nov-13	11082013-001.SSF	481201.412	20594
722236.872	4294309.034	4368	08-Nov-13	11082013-001.SSF	481202.498	20595
722236.909	4294309.327	4804	08-Nov-13	11082013-001.SSF	481203.427	20596
722237.074	4294309.431	4285	08-Nov-13	11082013-001.SSF	481204.406	20597
722237.248	4294309.326	4218	08-Nov-13	11082013-001.SSF	481205.381	20598
722237.313	4294309.108	4517	08-Nov-13	11082013-001.SSF	481206.456	20599
722237.371	4294308.94	4191	08-Nov-13	11082013-001.SSF	481207.424	20600
722237.407	4294308.894	4352	08-Nov-13	11082013-001.SSF	481208.477	20601
722237.429	4294308.734	4428	08-Nov-13	11082013-001.SSF	481209.428	20602
722237.452	4294308.617	4658	08-Nov-13	11082013-001.SSF	481210.479	20603
722237.484	4294308.637	4690	08-Nov-13	11082013-001.SSF	481211.416	20604
722237.534	4294308.542	4505	08-Nov-13	11082013-001.SSF	481212.464	20605
722237.543	4294308.477	4799	08-Nov-13	11082013-001.SSF	481213.351	20606
722237.514	4294308.489	4972	08-Nov-13	11082013-001.SSF	481214.437	20607
722237.463	4294308.354	5084	08-Nov-13	11082013-001.SSF	481215.362	20608
722237.337	4294308.436	4757	08-Nov-13	11082013-001.SSF	481216.511	20609
722237.264	4294308.699	4498	08-Nov-13	11082013-001.SSF	481217.36	20610
722237.266	4294308.763	4750	08-Nov-13	11082013-001.SSF	481218.416	20611
722236.863	4294313.872	4682	08-Nov-13	11082013-001.SSF	481219.404	20612
722236.231	4294321.288	4501	08-Nov-13	11082013-001.SSF	481220.443	20613
722236.119	4294321.183	4286	08-Nov-13	11082013-001.SSF	481221.343	20614
722235.959	4294321.227	4143	08-Nov-13	11082013-001.SSF	481222.458	20615
722235.888	4294321.33	4356	08-Nov-13	11082013-001.SSF	481223.399	20616
722235.766	4294321.418	4827	08-Nov-13	11082013-001.SSF	481224.484	20617
722235.661	4294321.484	4898	08-Nov-13	11082013-001.SSF	481225.409	20618
722235.594	4294321.486	4075	08-Nov-13	11082013-001.SSF	481226.448	20619
722235.622	4294321.525	4234	08-Nov-13	11082013-001.SSF	481227.455	20620
722235.686	4294321.555	4264	08-Nov-13	11082013-001.SSF	481228.463	20621
722235.752	4294321.529	4131	08-Nov-13	11082013-001.SSF	481229.405	20622
722235.845	4294321.431	4476	08-Nov-13	11082013-001.SSF	481230.442	20623
722235.883	4294321.328	4243	08-Nov-13	11082013-001.SSF	481231.349	20624
722235.817	4294321.328	4381	08-Nov-13	11082013-001.SSF	481232.498	20625
722235.748	4294321.202	4797	08-Nov-13	11082013-001.SSF	481233.312	20626
722235.9	4294320.929	5113	08-Nov-13	11082013-001.SSF	481234.415	20627
722236.063	4294320.863	4488	08-Nov-13	11082013-001.SSF	481235.35	20628
722235.956	4294320.908	4707	08-Nov-13	11082013-001.SSF	481236.409	20629
722235.846	4294321.012	5415	08-Nov-13	11082013-001.SSF	481237.335	20630
722235.926	4294321.14	5371	08-Nov-13	11082013-001.SSF	481238.421	20631
722236.065	4294321.169	5226	08-Nov-13	11082013-001.SSF	481239.374	20632
722236.216	4294321.152	5257	08-Nov-13	11082013-001.SSF	481240.451	20633
722236.269	4294321.171	5372	08-Nov-13	11082013-001.SSF	481241.43	20634
722236.028	4294321.239	5684	08-Nov-13	11082013-001.SSF	481242.459	20635
722235.319	4294321.377	5770	08-Nov-13	11082013-001.SSF	481243.381	20636
722233.938	4294321.605	5840	08-Nov-13	11082013-001.SSF	481244.496	20637
722232.735	4294321.684	5655	08-Nov-13	11082013-001.SSF	481245.336	20638

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722231.104	4294321.643	5513	08-Nov-13	11082013-001.SSF	481246.448	20639
722229.794	4294321.585	5538	08-Nov-13	11082013-001.SSF	481247.345	20640
722228.378	4294321.476	5373	08-Nov-13	11082013-001.SSF	481248.372	20641
722227.176	4294321.425	5430	08-Nov-13	11082013-001.SSF	481249.324	20642
722225.767	4294321.463	5581	08-Nov-13	11082013-001.SSF	481250.455	20643
722224.492	4294321.493	5907	08-Nov-13	11082013-001.SSF	481251.404	20644
722223.028	4294321.576	5572	08-Nov-13	11082013-001.SSF	481252.441	20645
722221.64	4294321.761	5302	08-Nov-13	11082013-001.SSF	481253.445	20646
722220.261	4294322.041	4835	08-Nov-13	11082013-001.SSF	481254.455	20647
722219.058	4294322.314	4969	08-Nov-13	11082013-001.SSF	481255.328	20648
722217.498	4294322.71	5045	08-Nov-13	11082013-001.SSF	481256.442	20649
722216.202	4294323.009	5253	08-Nov-13	11082013-001.SSF	481257.361	20650
722214.75	4294323.285	5227	08-Nov-13	11082013-001.SSF	481258.467	20651
722213.652	4294323.383	5160	08-Nov-13	11082013-001.SSF	481259.371	20652
722212.462	4294323.294	4927	08-Nov-13	11082013-001.SSF	481260.543	20653
722211.921	4294323.137	5111	08-Nov-13	11082013-001.SSF	481261.434	20654
722211.638	4294322.981	5613	08-Nov-13	11082013-001.SSF	481262.535	20655
722211.292	4294322.94	5700	08-Nov-13	11082013-001.SSF	481263.462	20656
722210.666	4294323.008	5493	08-Nov-13	11082013-001.SSF	481264.487	20657
722210.129	4294323.139	5790	08-Nov-13	11082013-001.SSF	481265.389	20658
722209.812	4294323.242	5784	08-Nov-13	11082013-001.SSF	481266.419	20659
722209.825	4294323.254	5938	08-Nov-13	11082013-001.SSF	481267.347	20660
722209.807	4294323.147	5913	08-Nov-13	11082013-001.SSF	481268.393	20661
722209.727	4294323.169	6101	08-Nov-13	11082013-001.SSF	481269.298	20662
722209.747	4294323.764	5545	08-Nov-13	11082013-001.SSF	481270.439	20663
722209.792	4294324.133	6164	08-Nov-13	11082013-001.SSF	481271.38	20664
722209.435	4294324.194	6101	08-Nov-13	11082013-001.SSF	481272.409	20665
722208.676	4294324.355	5422	08-Nov-13	11082013-001.SSF	481273.413	20666
722207.847	4294324.704	5690	08-Nov-13	11082013-001.SSF	481274.437	20667
722207.088	4294325.056	5615	08-Nov-13	11082013-001.SSF	481275.433	20668
722206.509	4294325.309	5859	08-Nov-13	11082013-001.SSF	481276.432	20669
722206.241	4294325.543	6288	08-Nov-13	11082013-001.SSF	481277.384	20670
722206.05	4294325.811	6303	08-Nov-13	11082013-001.SSF	481278.406	20671
722205.849	4294325.961	6795	08-Nov-13	11082013-001.SSF	481279.335	20672
722205.688	4294326.086	6328	08-Nov-13	11082013-001.SSF	481280.417	20673
722205.458	4294326.177	6262	08-Nov-13	11082013-001.SSF	481281.418	20674
722204.97	4294326.24	5945	08-Nov-13	11082013-001.SSF	481282.425	20675
722204.479	4294326.478	7479	08-Nov-13	11082013-001.SSF	481283.433	20676
722204.131	4294326.781	6730	08-Nov-13	11082013-001.SSF	481284.436	20677
722203.833	4294327.036	6992	08-Nov-13	11082013-001.SSF	481285.333	20678
722203.601	4294327.15	6428	08-Nov-13	11082013-001.SSF	481286.454	20679
722203.502	4294327.096	6887	08-Nov-13	11082013-001.SSF	481287.326	20680
722203.388	4294327.174	7091	08-Nov-13	11082013-001.SSF	481288.448	20681
722203.305	4294327.32	7323	08-Nov-13	11082013-001.SSF	481289.406	20682
722203.245	4294327.375	6990	08-Nov-13	11082013-001.SSF	481290.434	20683
722203.036	4294327.362	6937	08-Nov-13	11082013-001.SSF	481291.343	20684
722202.457	4294327.192	8154	08-Nov-13	11082013-001.SSF	481292.465	20685

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722202.04	4294326.712	7228	08-Nov-13	11082013-001.SSF	481293.422	20686
722201.756	4294325.638	6607	08-Nov-13	11082013-001.SSF	481294.488	20687
722201.392	4294324.732	6601	08-Nov-13	11082013-001.SSF	481295.344	20688
722200.643	4294323.931	7320	08-Nov-13	11082013-001.SSF	481296.48	20689
722200.155	4294323.412	6780	08-Nov-13	11082013-001.SSF	481297.37	20690
722199.745	4294322.662	6075	08-Nov-13	11082013-001.SSF	481298.472	20691
722199.279	4294322.135	6468	08-Nov-13	11082013-001.SSF	481299.346	20692
722198.349	4294321.604	6117	08-Nov-13	11082013-001.SSF	481300.466	20693
722197.558	4294321.184	6659	08-Nov-13	11082013-001.SSF	481301.332	20694
722196.707	4294320.65	5947	08-Nov-13	11082013-001.SSF	481302.465	20695
722196.005	4294320.386	6655	08-Nov-13	11082013-001.SSF	481303.333	20696
722194.961	4294320.239	5923	08-Nov-13	11082013-001.SSF	481304.443	20697
722194.127	4294320.124	6991	08-Nov-13	11082013-001.SSF	481305.328	20698
722193.28	4294319.641	7027	08-Nov-13	11082013-001.SSF	481306.359	20699
722192.494	4294319.002	6917	08-Nov-13	11082013-001.SSF	481307.319	20700
722191.549	4294318.646	7759	08-Nov-13	11082013-001.SSF	481308.36	20701
722190.634	4294318.574	7009	08-Nov-13	11082013-001.SSF	481309.341	20702
722189.512	4294318.255	7182	08-Nov-13	11082013-001.SSF	481310.474	20703
722188.526	4294317.996	8245	08-Nov-13	11082013-001.SSF	481311.339	20704
722187.13	4294317.946	8061	08-Nov-13	11082013-001.SSF	481312.518	20705
722186.245	4294318.036	8255	08-Nov-13	11082013-001.SSF	481313.369	20706
722185.218	4294318.126	8753	08-Nov-13	11082013-001.SSF	481314.468	20707
722184.451	4294318.209	8548	08-Nov-13	11082013-001.SSF	481315.308	20708
722183.708	4294318.556	8017	08-Nov-13	11082013-001.SSF	481316.429	20709
722183.377	4294318.884	7164	08-Nov-13	11082013-001.SSF	481317.361	20710
722183.216	4294319.022	8391	08-Nov-13	11082013-001.SSF	481318.388	20711
722183.164	4294319.029	8367	08-Nov-13	11082013-001.SSF	481319.297	20712
722183.172	4294319.058	8062	08-Nov-13	11082013-001.SSF	481320.456	20713
722183.166	4294319.098	8225	08-Nov-13	11082013-001.SSF	481321.368	20714
722183.14	4294319.129	7546	08-Nov-13	11082013-001.SSF	481322.407	20715
722183.127	4294319.141	7766	08-Nov-13	11082013-001.SSF	481323.329	20716
722183.109	4294319.159	6591	08-Nov-13	11082013-001.SSF	481324.414	20717
722183.089	4294319.179	6778	08-Nov-13	11082013-001.SSF	481325.355	20718
722183.102	4294319.198	6854	08-Nov-13	11082013-001.SSF	481326.386	20719
722183.106	4294319.2	7053	08-Nov-13	11082013-001.SSF	481327.312	20720
722183.085	4294319.191	6983	08-Nov-13	11082013-001.SSF	481328.437	20721
722182.971	4294319.192	8495	08-Nov-13	11082013-001.SSF	481329.379	20722
722182.483	4294319.276	7464	08-Nov-13	11082013-001.SSF	481330.445	20723
722181.77	4294319.453	7956	08-Nov-13	11082013-001.SSF	481331.406	20724
722180.946	4294319.499	8379	08-Nov-13	11082013-001.SSF	481332.447	20725
722180.211	4294319.438	8064	08-Nov-13	11082013-001.SSF	481333.37	20726
722179.309	4294319.586	8166	08-Nov-13	11082013-001.SSF	481334.399	20727
722178.498	4294319.78	7921	08-Nov-13	11082013-001.SSF	481335.35	20728
722177.7	4294319.863	8370	08-Nov-13	11082013-001.SSF	481336.474	20729
722177.051	4294319.82	8032	08-Nov-13	11082013-001.SSF	481337.387	20730
722176.294	4294319.527	7828	08-Nov-13	11082013-001.SSF	481338.445	20731
722175.836	4294319.293	7987	08-Nov-13	11082013-001.SSF	481339.386	20732

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722175.788	4294319.311	6706	08-Nov-13	11082013-001.SSF	481340.442	20733
722175.76	4294319.388	7736	08-Nov-13	11082013-001.SSF	481341.418	20734
722175.321	4294319.315	7874	08-Nov-13	11082013-001.SSF	481342.49	20735
722174.69	4294319.096	6288	08-Nov-13	11082013-001.SSF	481343.379	20736
722173.779	4294318.863	7152	08-Nov-13	11082013-001.SSF	481344.458	20737
722173.124	4294318.838	8088	08-Nov-13	11082013-001.SSF	481345.337	20738
722172.484	4294318.738	8922	08-Nov-13	11082013-001.SSF	481346.397	20739
722171.989	4294318.495	8800	08-Nov-13	11082013-001.SSF	481347.31	20740
722171.506	4294318.099	9160	08-Nov-13	11082013-001.SSF	481348.433	20741
722171.135	4294317.863	8410	08-Nov-13	11082013-001.SSF	481349.409	20742
722170.878	4294317.635	8732	08-Nov-13	11082013-001.SSF	481350.481	20743
722170.554	4294317.291	7373	08-Nov-13	11082013-001.SSF	481351.448	20744
722170.197	4294316.814	7993	08-Nov-13	11082013-001.SSF	481352.464	20745
722169.865	4294316.138	7098	08-Nov-13	11082013-001.SSF	481353.394	20746
722169.6	4294315.018	7324	08-Nov-13	11082013-001.SSF	481354.479	20747
722169.712	4294314.193	7471	08-Nov-13	11082013-001.SSF	481355.35	20748
722169.81	4294313.515	7387	08-Nov-13	11082013-001.SSF	481356.395	20749
722169.67	4294313.144	7997	08-Nov-13	11082013-001.SSF	481357.316	20750
722169.502	4294312.821	7009	08-Nov-13	11082013-001.SSF	481358.359	20751
722169.167	4294312.459	7242	08-Nov-13	11082013-001.SSF	481359.322	20752
722168.549	4294311.841	8620	08-Nov-13	11082013-001.SSF	481360.355	20753
722167.714	4294311.054	7315	08-Nov-13	11082013-001.SSF	481361.377	20754
722166.806	4294310.494	8548	08-Nov-13	11082013-001.SSF	481362.417	20755
722165.995	4294310.326	8107	08-Nov-13	11082013-001.SSF	481363.35	20756
722165.016	4294310.224	7336	08-Nov-13	11082013-001.SSF	481364.387	20757
722163.953	4294310.096	7204	08-Nov-13	11082013-001.SSF	481365.362	20758
722162.668	4294310.163	6571	08-Nov-13	11082013-001.SSF	481366.442	20759
722161.579	4294310.31	6262	08-Nov-13	11082013-001.SSF	481367.386	20760
722160.379	4294310.193	7175	08-Nov-13	11082013-001.SSF	481368.449	20761
722159.291	4294309.775	5874	08-Nov-13	11082013-001.SSF	481369.449	20762
722158.387	4294309.354	6102	08-Nov-13	11082013-001.SSF	481370.38	20763
722157.505	4294309.062	7315	08-Nov-13	11082013-001.SSF	481371.317	20764
722156.354	4294308.992	6509	08-Nov-13	11082013-001.SSF	481372.443	20765
722155.335	4294309.038	6307	08-Nov-13	11082013-001.SSF	481373.413	20766
722154.396	4294309.117	7456	08-Nov-13	11082013-001.SSF	481374.427	20767
722153.937	4294309.421	6124	08-Nov-13	11082013-001.SSF	481375.326	20768
722153.883	4294309.911	6091	08-Nov-13	11082013-001.SSF	481376.373	20769
722153.89	4294310.046	6892	08-Nov-13	11082013-001.SSF	481377.338	20770
722153.596	4294309.985	7723	08-Nov-13	11082013-001.SSF	481378.436	20771
722153.043	4294309.93	8621	08-Nov-13	11082013-001.SSF	481379.376	20772
722152.137	4294309.505	8905	08-Nov-13	11082013-001.SSF	481380.477	20773
722151.412	4294308.966	9096	08-Nov-13	11082013-001.SSF	481381.356	20774
722150.74	4294308.646	10104	08-Nov-13	11082013-001.SSF	481382.373	20775
722150.383	4294308.725	10356	08-Nov-13	11082013-001.SSF	481383.362	20776
722150.216	4294308.95	10929	08-Nov-13	11082013-001.SSF	481384.444	20777
722150.217	4294309.026	9632	08-Nov-13	11082013-001.SSF	481385.373	20778
722150.264	4294308.982	10118	08-Nov-13	11082013-001.SSF	481386.46	20779

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722150.252	4294308.944	9519	08-Nov-13	11082013-001.SSF	481387.361	20780
722150.141	4294308.938	10540	08-Nov-13	11082013-001.SSF	481388.54	20781
722150.121	4294308.95	9805	08-Nov-13	11082013-001.SSF	481389.3	20782
722150.129	4294308.894	9591	08-Nov-13	11082013-001.SSF	481390.432	20783
722149.901	4294308.709	9897	08-Nov-13	11082013-001.SSF	481391.411	20784
722149.344	4294308.371	9074	08-Nov-13	11082013-001.SSF	481392.458	20785
722148.674	4294307.981	10008	08-Nov-13	11082013-001.SSF	481393.383	20786
722147.899	4294307.493	9762	08-Nov-13	11082013-001.SSF	481394.414	20787
722147.132	4294307.023	10480	08-Nov-13	11082013-001.SSF	481395.343	20788
722146.047	4294306.58	8770	08-Nov-13	11082013-001.SSF	481396.483	20789
722145.27	4294306.3	7832	08-Nov-13	11082013-001.SSF	481397.404	20790
722144.588	4294305.68	8228	08-Nov-13	11082013-001.SSF	481398.483	20791
722144.01	4294305.011	8477	08-Nov-13	11082013-001.SSF	481399.365	20792
722143.103	4294304.451	9199	08-Nov-13	11082013-001.SSF	481400.343	20793
722141.981	4294304.018	7429	08-Nov-13	11082013-001.SSF	481401.365	20794
722141.156	4294303.473	8007	08-Nov-13	11082013-001.SSF	481402.366	20795
722140.578	4294302.892	8692	08-Nov-13	11082013-001.SSF	481403.338	20796
722139.809	4294302.341	7813	08-Nov-13	11082013-001.SSF	481404.372	20797
722139.084	4294301.851	6963	08-Nov-13	11082013-001.SSF	481405.278	20798
722138.437	4294301.152	6090	08-Nov-13	11082013-001.SSF	481406.405	20799
722137.996	4294300.506	6502	08-Nov-13	11082013-001.SSF	481407.323	20800
722137.428	4294300.048	7385	08-Nov-13	11082013-001.SSF	481408.363	20801
722136.939	4294299.899	7036	08-Nov-13	11082013-001.SSF	481409.38	20802
722136.598	4294299.716	6709	08-Nov-13	11082013-001.SSF	481410.449	20803
722136.379	4294299.562	6537	08-Nov-13	11082013-001.SSF	481411.374	20804
722135.848	4294299.246	6284	08-Nov-13	11082013-001.SSF	481412.494	20805
722135.057	4294298.875	6401	08-Nov-13	11082013-001.SSF	481413.392	20806
722134.114	4294298.287	6250	08-Nov-13	11082013-001.SSF	481414.502	20807
722133.526	4294297.706	6122	08-Nov-13	11082013-001.SSF	481415.383	20808
722132.802	4294297.19	5760	08-Nov-13	11082013-001.SSF	481416.305	20809
722131.835	4294296.822	6330	08-Nov-13	11082013-001.SSF	481417.309	20810
722130.878	4294296.448	6048	08-Nov-13	11082013-001.SSF	481418.381	20811
722130.261	4294295.998	5868	08-Nov-13	11082013-001.SSF	481419.301	20812
722129.665	4294295.47	6400	08-Nov-13	11082013-001.SSF	481420.339	20813
722129.261	4294295.352	6760	08-Nov-13	11082013-001.SSF	481421.338	20814
722129.178	4294295.342	7720	08-Nov-13	11082013-001.SSF	481422.359	20815
722129.245	4294295.208	6190	08-Nov-13	11082013-001.SSF	481423.288	20816
722129.307	4294295.077	6047	08-Nov-13	11082013-001.SSF	481424.375	20817
722129.294	4294295.018	6032	08-Nov-13	11082013-001.SSF	481425.315	20818
722129.18	4294295.038	5853	08-Nov-13	11082013-001.SSF	481426.401	20819
722129.103	4294295.201	5565	08-Nov-13	11082013-001.SSF	481427.342	20820
722129.083	4294295.385	5163	08-Nov-13	11082013-001.SSF	481428.462	20821
722129.03	4294295.385	6466	08-Nov-13	11082013-001.SSF	481429.403	20822
722128.904	4294295.367	6836	08-Nov-13	11082013-001.SSF	481430.454	20823
722128.663	4294295.341	7229	08-Nov-13	11082013-001.SSF	481431.375	20824
722128.086	4294295.279	6847	08-Nov-13	11082013-001.SSF	481432.413	20825
722127.498	4294295.346	6901	08-Nov-13	11082013-001.SSF	481433.354	20826

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722126.819	4294295.517	7545	08-Nov-13	11082013-001.SSF	481434.377	20827
722126.038	4294295.811	6746	08-Nov-13	11082013-001.SSF	481435.343	20828
722125.384	4294296.436	7326	08-Nov-13	11082013-001.SSF	481436.375	20829
722124.995	4294297.086	5761	08-Nov-13	11082013-001.SSF	481437.309	20830
722124.607	4294297.471	5963	08-Nov-13	11082013-001.SSF	481438.334	20831
722124.436	4294297.556	6391	08-Nov-13	11082013-001.SSF	481439.37	20832
722124.453	4294297.59	6817	08-Nov-13	11082013-001.SSF	481440.435	20833
722124.487	4294297.607	6006	08-Nov-13	11082013-001.SSF	481441.352	20834
722124.536	4294297.625	6311	08-Nov-13	11082013-001.SSF	481442.36	20835
722124.568	4294297.641	7355	08-Nov-13	11082013-001.SSF	481443.37	20836
722124.585	4294297.655	5549	08-Nov-13	11082013-001.SSF	481444.413	20837
722124.605	4294297.659	5956	08-Nov-13	11082013-001.SSF	481445.349	20838
722124.644	4294297.628	6320	08-Nov-13	11082013-001.SSF	481446.367	20839
722124.677	4294297.537	6440	08-Nov-13	11082013-001.SSF	481447.392	20840
722124.673	4294297.452	6290	08-Nov-13	11082013-001.SSF	481448.412	20841
722124.661	4294297.432	6282	08-Nov-13	11082013-001.SSF	481449.344	20842
722124.65	4294297.424	5890	08-Nov-13	11082013-001.SSF	481450.353	20843
722124.61	4294297.42	6453	08-Nov-13	11082013-001.SSF	481451.381	20844
722124.578	4294297.494	6683	08-Nov-13	11082013-001.SSF	481452.411	20845
722124.637	4294297.566	6471	08-Nov-13	11082013-001.SSF	481453.312	20846
722124.683	4294297.493	7167	08-Nov-13	11082013-001.SSF	481454.41	20847
722124.615	4294297.458	6772	08-Nov-13	11082013-001.SSF	481455.359	20848
722124.829	4294297.456	6244	08-Nov-13	11082013-001.SSF	481456.39	20849
722125.348	4294297.256	6241	08-Nov-13	11082013-001.SSF	481457.327	20850
722126.094	4294296.764	6690	08-Nov-13	11082013-001.SSF	481458.455	20851
722126.775	4294296.59	6832	08-Nov-13	11082013-001.SSF	481459.361	20852
722127.646	4294296.806	6568	08-Nov-13	11082013-001.SSF	481460.351	20853
722128.661	4294297.096	7162	08-Nov-13	11082013-001.SSF	481461.31	20854
722129.864	4294297.196	6500	08-Nov-13	11082013-001.SSF	481462.341	20855
722130.8	4294297.338	6875	08-Nov-13	11082013-001.SSF	481463.341	20856
722131.51	4294297.852	6518	08-Nov-13	11082013-001.SSF	481464.405	20857
722132.2	4294298.391	6879	08-Nov-13	11082013-001.SSF	481465.361	20858
722133.112	4294298.789	7030	08-Nov-13	11082013-001.SSF	481466.331	20859
722134.249	4294299.139	6827	08-Nov-13	11082013-001.SSF	481467.313	20860
722135.52	4294299.544	6356	08-Nov-13	11082013-001.SSF	481468.347	20861
722136.572	4294300.023	6959	08-Nov-13	11082013-001.SSF	481469.281	20862
722137.505	4294300.751	6930	08-Nov-13	11082013-001.SSF	481470.361	20863
722138.193	4294301.52	7252	08-Nov-13	11082013-001.SSF	481471.385	20864
722138.947	4294302.104	6703	08-Nov-13	11082013-001.SSF	481472.408	20865
722139.976	4294302.474	8005	08-Nov-13	11082013-001.SSF	481473.336	20866
722141.463	4294302.844	7161	08-Nov-13	11082013-001.SSF	481474.455	20867
722142.59	4294303.196	8030	08-Nov-13	11082013-001.SSF	481475.357	20868
722143.784	4294303.855	7857	08-Nov-13	11082013-001.SSF	481476.396	20869
722144.868	4294304.641	8504	08-Nov-13	11082013-001.SSF	481477.359	20870
722146.158	4294305.557	8756	08-Nov-13	11082013-001.SSF	481478.39	20871
722147.371	4294306.334	10109	08-Nov-13	11082013-001.SSF	481479.344	20872
722148.457	4294306.813	9427	08-Nov-13	11082013-001.SSF	481480.362	20873

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722149.444	4294306.954	8026	08-Nov-13	11082013-001.SSF	481481.32	20874
722150.715	4294307.07	8576	08-Nov-13	11082013-001.SSF	481482.362	20875
722151.951	4294307.234	9194	08-Nov-13	11082013-001.SSF	481483.325	20876
722153.271	4294307.55	9588	08-Nov-13	11082013-001.SSF	481484.367	20877
722154.408	4294307.981	8757	08-Nov-13	11082013-001.SSF	481485.359	20878
722155.278	4294308.442	8669	08-Nov-13	11082013-001.SSF	481486.385	20879
722156.144	4294308.668	8167	08-Nov-13	11082013-001.SSF	481487.42	20880
722157.303	4294308.763	7651	08-Nov-13	11082013-001.SSF	481488.428	20881
722158.431	4294309.005	7522	08-Nov-13	11082013-001.SSF	481489.426	20882
722159.24	4294309.478	7340	08-Nov-13	11082013-001.SSF	481490.361	20883
722160.06	4294310.09	6125	08-Nov-13	11082013-001.SSF	481491.352	20884
722161.033	4294310.498	5762	08-Nov-13	11082013-001.SSF	481492.406	20885
722162.056	4294310.555	6068	08-Nov-13	11082013-001.SSF	481493.374	20886
722163.303	4294310.396	7547	08-Nov-13	11082013-001.SSF	481494.429	20887
722164.371	4294310.332	6416	08-Nov-13	11082013-001.SSF	481495.356	20888
722165.418	4294310.517	8294	08-Nov-13	11082013-001.SSF	481496.375	20889
722166.243	4294310.839	8133	08-Nov-13	11082013-001.SSF	481497.314	20890
722166.941	4294311.077	8333	08-Nov-13	11082013-001.SSF	481498.342	20891
722167.799	4294311.028	8173	08-Nov-13	11082013-001.SSF	481499.419	20892
722168.538	4294311.101	8493	08-Nov-13	11082013-001.SSF	481500.375	20893
722169.225	4294311.616	9353	08-Nov-13	11082013-001.SSF	481501.37	20894
722170.08	4294312.423	9598	08-Nov-13	11082013-001.SSF	481502.414	20895
722170.879	4294313.187	8849	08-Nov-13	11082013-001.SSF	481503.367	20896
722171.7	4294314.114	8962	08-Nov-13	11082013-001.SSF	481504.382	20897
722172.302	4294314.989	9170	08-Nov-13	11082013-001.SSF	481505.317	20898
722172.778	4294315.921	8352	08-Nov-13	11082013-001.SSF	481506.423	20899
722173.317	4294316.523	9198	08-Nov-13	11082013-001.SSF	481507.314	20900
722174.273	4294316.855	8599	08-Nov-13	11082013-001.SSF	481508.341	20901
722175.314	4294317.095	7669	08-Nov-13	11082013-001.SSF	481509.273	20902
722176.539	4294317.643	8577	08-Nov-13	11082013-001.SSF	481510.38	20903
722177.466	4294318.273	9134	08-Nov-13	11082013-001.SSF	481511.262	20904
722178.629	4294318.869	8613	08-Nov-13	11082013-001.SSF	481512.305	20905
722179.778	4294318.787	8513	08-Nov-13	11082013-001.SSF	481513.361	20906
722180.699	4294318.277	9268	08-Nov-13	11082013-001.SSF	481514.293	20907
722181.596	4294317.803	8407	08-Nov-13	11082013-001.SSF	481515.286	20908
722182.89	4294317.739	8341	08-Nov-13	11082013-001.SSF	481516.393	20909
722184.179	4294317.697	8415	08-Nov-13	11082013-001.SSF	481517.334	20910
722185.455	4294317.479	7563	08-Nov-13	11082013-001.SSF	481518.362	20911
722186.393	4294317.365	8311	08-Nov-13	11082013-001.SSF	481519.312	20912
722187.375	4294317.634	9127	08-Nov-13	11082013-001.SSF	481520.38	20913
722188.349	4294317.916	7562	08-Nov-13	11082013-001.SSF	481521.326	20914
722189.513	4294317.946	7740	08-Nov-13	11082013-001.SSF	481522.367	20915
722190.75	4294317.938	8235	08-Nov-13	11082013-001.SSF	481523.382	20916
722191.989	4294318.103	8628	08-Nov-13	11082013-001.SSF	481524.404	20917
722192.745	4294318.342	8487	08-Nov-13	11082013-001.SSF	481525.238	20918
722193.171	4294318.539	7822	08-Nov-13	11082013-001.SSF	481526.44	20919
722193.283	4294318.348	6995	08-Nov-13	11082013-001.SSF	481527.314	20920

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722193.272	4294318.074	7118	08-Nov-13	11082013-001.SSF	481528.321	20921
722193.214	4294317.959	6939	08-Nov-13	11082013-001.SSF	481529.301	20922
722193.191	4294317.898	7765	08-Nov-13	11082013-001.SSF	481530.421	20923
722193.184	4294317.839	8901	08-Nov-13	11082013-001.SSF	481531.378	20924
722193.203	4294317.802	7295	08-Nov-13	11082013-001.SSF	481532.365	20925
722193.37	4294317.904	8123	08-Nov-13	11082013-001.SSF	481533.294	20926
722193.965	4294318.377	8241	08-Nov-13	11082013-001.SSF	481534.404	20927
722194.682	4294318.844	7700	08-Nov-13	11082013-001.SSF	481535.315	20928
722195.61	4294319.09	6635	08-Nov-13	11082013-001.SSF	481536.376	20929
722196.516	4294319.088	6608	08-Nov-13	11082013-001.SSF	481537.33	20930
722197.572	4294319.274	7712	08-Nov-13	11082013-001.SSF	481538.382	20931
722198.403	4294319.771	7208	08-Nov-13	11082013-001.SSF	481539.303	20932
722199.199	4294320.495	6752	08-Nov-13	11082013-001.SSF	481540.381	20933
722199.818	4294320.854	6638	08-Nov-13	11082013-001.SSF	481541.305	20934
722200.581	4294321.076	6819	08-Nov-13	11082013-001.SSF	481542.354	20935
722201.286	4294321.334	5875	08-Nov-13	11082013-001.SSF	481543.324	20936
722202.21	4294321.6	5563	08-Nov-13	11082013-001.SSF	481544.423	20937
722203.135	4294321.677	5881	08-Nov-13	11082013-001.SSF	481545.316	20938
722204.058	4294321.621	6285	08-Nov-13	11082013-001.SSF	481546.427	20939
722204.483	4294321.603	7271	08-Nov-13	11082013-001.SSF	481547.316	20940
722204.712	4294321.563	6558	08-Nov-13	11082013-001.SSF	481548.418	20941
722204.746	4294321.517	7189	08-Nov-13	11082013-001.SSF	481549.34	20942
722204.705	4294321.486	7617	08-Nov-13	11082013-001.SSF	481550.419	20943
722204.678	4294321.468	7484	08-Nov-13	11082013-001.SSF	481551.286	20944
722204.768	4294321.536	7421	08-Nov-13	11082013-001.SSF	481552.39	20945
722205.122	4294321.76	7135	08-Nov-13	11082013-001.SSF	481553.304	20946
722205.849	4294322.121	8173	08-Nov-13	11082013-001.SSF	481554.322	20947
722206.698	4294322.496	7623	08-Nov-13	11082013-001.SSF	481555.33	20948
722207.725	4294322.838	6735	08-Nov-13	11082013-001.SSF	481556.401	20949
722208.722	4294322.756	6483	08-Nov-13	11082013-001.SSF	481557.376	20950
722209.581	4294322.005	5386	08-Nov-13	11082013-001.SSF	481558.378	20951
722209.848	4294320.873	5280	08-Nov-13	11082013-001.SSF	481559.393	20952
722209.332	4294320.087	5797	08-Nov-13	11082013-001.SSF	481560.384	20953
722208.636	4294319.833	5841	08-Nov-13	11082013-001.SSF	481561.377	20954
722207.981	4294319.739	5963	08-Nov-13	11082013-001.SSF	481562.413	20955
722207.416	4294319.649	6129	08-Nov-13	11082013-001.SSF	481563.39	20956
722206.822	4294319.65	6782	08-Nov-13	11082013-001.SSF	481564.363	20957
722206.188	4294319.71	7171	08-Nov-13	11082013-001.SSF	481565.36	20958
722205.625	4294319.709	7706	08-Nov-13	11082013-001.SSF	481566.399	20959
722205.037	4294319.657	8586	08-Nov-13	11082013-001.SSF	481567.401	20960
722204.512	4294319.616	7786	08-Nov-13	11082013-001.SSF	481568.376	20961
722204.227	4294319.462	7976	08-Nov-13	11082013-001.SSF	481569.293	20962
722203.945	4294319.34	6524	08-Nov-13	11082013-001.SSF	481570.462	20963
722203.691	4294319.296	7271	08-Nov-13	11082013-001.SSF	481571.359	20964
722203.431	4294319.15	5987	08-Nov-13	11082013-001.SSF	481572.349	20965
722203.234	4294319.029	6595	08-Nov-13	11082013-001.SSF	481573.239	20966
722202.889	4294318.874	5818	08-Nov-13	11082013-001.SSF	481574.413	20967

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722202.671	4294318.726	6078	08-Nov-13	11082013-001.SSF	481575.286	20968
722202.52	4294318.568	7099	08-Nov-13	11082013-001.SSF	481576.348	20969
722202.136	4294318.611	6244	08-Nov-13	11082013-001.SSF	481577.311	20970
722201.571	4294318.486	6001	08-Nov-13	11082013-001.SSF	481578.322	20971
722200.862	4294318.464	5933	08-Nov-13	11082013-001.SSF	481579.38	20972
722200.478	4294318.321	6020	08-Nov-13	11082013-001.SSF	481580.443	20973
722200.273	4294318.171	6292	08-Nov-13	11082013-001.SSF	481581.36	20974
722199.918	4294318.094	5923	08-Nov-13	11082013-001.SSF	481582.413	20975
722199.527	4294318.012	6856	08-Nov-13	11082013-001.SSF	481583.387	20976
722198.992	4294317.964	6574	08-Nov-13	11082013-001.SSF	481584.378	20977
722198.366	4294317.773	7313	08-Nov-13	11082013-001.SSF	481585.309	20978
722197.623	4294317.624	7138	08-Nov-13	11082013-001.SSF	481586.311	20979
722197.017	4294317.504	6974	08-Nov-13	11082013-001.SSF	481587.269	20980
722196.427	4294317.406	6993	08-Nov-13	11082013-001.SSF	481588.32	20981
722195.892	4294317.292	6796	08-Nov-13	11082013-001.SSF	481589.309	20982
722195.285	4294317.206	7164	08-Nov-13	11082013-001.SSF	481590.45	20983
722194.802	4294317.019	8121	08-Nov-13	11082013-001.SSF	481591.353	20984
722194.205	4294316.737	8450	08-Nov-13	11082013-001.SSF	481592.358	20985
722193.648	4294316.371	7812	08-Nov-13	11082013-001.SSF	481593.367	20986
722193.195	4294316.174	6693	08-Nov-13	11082013-001.SSF	481594.351	20987
722192.739	4294316.098	8003	08-Nov-13	11082013-001.SSF	481595.349	20988
722192.339	4294316.064	7910	08-Nov-13	11082013-001.SSF	481596.389	20989
722191.99	4294315.945	7677	08-Nov-13	11082013-001.SSF	481597.341	20990
722191.513	4294315.776	7739	08-Nov-13	11082013-001.SSF	481598.407	20991
722191.06	4294315.614	8355	08-Nov-13	11082013-001.SSF	481599.288	20992
722190.387	4294315.39	7458	08-Nov-13	11082013-001.SSF	481600.412	20993
722189.896	4294315.219	7084	08-Nov-13	11082013-001.SSF	481601.306	20994
722189.351	4294315.106	8311	08-Nov-13	11082013-001.SSF	481602.341	20995
722188.81	4294314.967	7777	08-Nov-13	11082013-001.SSF	481603.341	20996
722188.327	4294314.853	8124	08-Nov-13	11082013-001.SSF	481604.385	20997
722187.961	4294314.702	8421	08-Nov-13	11082013-001.SSF	481605.371	20998
722187.595	4294314.529	8285	08-Nov-13	11082013-001.SSF	481606.39	20999
722187.303	4294314.389	7441	08-Nov-13	11082013-001.SSF	481607.365	21000
722187.051	4294314.266	7770	08-Nov-13	11082013-001.SSF	481608.361	21001
722186.767	4294314.192	8062	08-Nov-13	11082013-001.SSF	481609.368	21002
722186.489	4294314.12	7445	08-Nov-13	11082013-001.SSF	481610.335	21003
722186.082	4294314.234	8191	08-Nov-13	11082013-001.SSF	481611.312	21004
722185.53	4294314.509	8797	08-Nov-13	11082013-001.SSF	481612.338	21005
722185.212	4294314.91	9549	08-Nov-13	11082013-001.SSF	481613.237	21006
722184.84	4294315.346	8477	08-Nov-13	11082013-001.SSF	481614.337	21007
722184.569	4294315.627	7939	08-Nov-13	11082013-001.SSF	481615.32	21008
722184.342	4294315.912	9544	08-Nov-13	11082013-001.SSF	481616.386	21009
722184.148	4294316.117	8476	08-Nov-13	11082013-001.SSF	481617.267	21010
722183.761	4294316.365	8239	08-Nov-13	11082013-001.SSF	481618.427	21011
722183.39	4294316.488	8869	08-Nov-13	11082013-001.SSF	481619.363	21012
722182.908	4294316.625	8817	08-Nov-13	11082013-001.SSF	481620.356	21013
722182.29	4294316.799	8294	08-Nov-13	11082013-001.SSF	481621.378	21014

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722181.766	4294317.118	8613	08-Nov-13	11082013-001.SSF	481622.383	21015
722181.403	4294317.288	8363	08-Nov-13	11082013-001.SSF	481623.294	21016
722181.027	4294317.326	9590	08-Nov-13	11082013-001.SSF	481624.407	21017
722180.707	4294317.446	8727	08-Nov-13	11082013-001.SSF	481625.36	21018
722180.338	4294317.54	8782	08-Nov-13	11082013-001.SSF	481626.39	21019
722179.952	4294317.516	9215	08-Nov-13	11082013-001.SSF	481627.411	21020
722179.847	4294317.385	7733	08-Nov-13	11082013-001.SSF	481628.349	21021
722180.103	4294317.324	8293	08-Nov-13	11082013-001.SSF	481629.397	21022
722180.235	4294317.34	8583	08-Nov-13	11082013-001.SSF	481630.358	21023
722180.149	4294317.393	8895	08-Nov-13	11082013-001.SSF	481631.365	21024
722180.078	4294317.428	8703	08-Nov-13	11082013-001.SSF	481632.381	21025
722180.044	4294317.444	8596	08-Nov-13	11082013-001.SSF	481633.392	21026
722180.006	4294317.472	9379	08-Nov-13	11082013-001.SSF	481634.38	21027
722179.991	4294317.498	8764	08-Nov-13	11082013-001.SSF	481635.327	21028
722179.974	4294317.526	8881	08-Nov-13	11082013-001.SSF	481636.305	21029
722179.939	4294317.537	7680	08-Nov-13	11082013-001.SSF	481637.306	21030
722179.915	4294317.54	7740	08-Nov-13	11082013-001.SSF	481638.331	21031
722179.901	4294317.553	8535	08-Nov-13	11082013-001.SSF	481639.275	21032
722179.886	4294317.555	8343	08-Nov-13	11082013-001.SSF	481640.386	21033
722179.857	4294317.537	8416	08-Nov-13	11082013-001.SSF	481641.386	21034
722179.842	4294317.535	8674	08-Nov-13	11082013-001.SSF	481642.356	21035
722179.822	4294317.509	8768	08-Nov-13	11082013-001.SSF	481643.398	21036
722179.807	4294317.489	9002	08-Nov-13	11082013-001.SSF	481644.356	21037
722179.798	4294317.491	8610	08-Nov-13	11082013-001.SSF	481645.312	21038
722179.72	4294317.489	8452	08-Nov-13	11082013-001.SSF	481646.308	21039
722179.372	4294317.515	8443	08-Nov-13	11082013-001.SSF	481647.35	21040
722178.895	4294317.73	8561	08-Nov-13	11082013-001.SSF	481648.403	21041
722178.487	4294317.785	8590	08-Nov-13	11082013-001.SSF	481649.299	21042
722177.882	4294317.737	9257	08-Nov-13	11082013-001.SSF	481650.315	21043
722177.241	4294317.606	9094	08-Nov-13	11082013-001.SSF	481651.318	21044
722176.602	4294317.386	9203	08-Nov-13	11082013-001.SSF	481652.327	21045
722176.153	4294317.203	8871	08-Nov-13	11082013-001.SSF	481653.338	21046
722175.833	4294317.085	8877	08-Nov-13	11082013-001.SSF	481654.363	21047
722175.433	4294316.891	9209	08-Nov-13	11082013-001.SSF	481655.267	21048
722174.834	4294316.694	9622	08-Nov-13	11082013-001.SSF	481656.326	21049
722174.518	4294316.724	8255	08-Nov-13	11082013-001.SSF	481657.256	21050
722174.446	4294316.85	8423	08-Nov-13	11082013-001.SSF	481658.294	21051
722174.438	4294316.884	8226	08-Nov-13	11082013-001.SSF	481659.33	21052
722174.306	4294316.861	9046	08-Nov-13	11082013-001.SSF	481660.307	21053
722174.093	4294316.753	9521	08-Nov-13	11082013-001.SSF	481661.276	21054
722174.148	4294316.725	8740	08-Nov-13	11082013-001.SSF	481662.34	21055
722174.333	4294316.757	10315	08-Nov-13	11082013-001.SSF	481663.215	21056
722174.616	4294316.714	9418	08-Nov-13	11082013-001.SSF	481664.306	21057
722174.853	4294316.617	8654	08-Nov-13	11082013-001.SSF	481665.269	21058
722175.032	4294316.469	8703	08-Nov-13	11082013-001.SSF	481666.336	21059
722175.02	4294316.406	10005	08-Nov-13	11082013-001.SSF	481667.328	21060
722174.986	4294316.413	8801	08-Nov-13	11082013-001.SSF	481668.308	21061

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722174.891	4294316.255	8822	08-Nov-13	11082013-001.SSF	481670.306	21063
722174.574	4294316.661	8955	08-Nov-13	11082013-001.SSF	481671.167	21064
722174.42	4294316.781	9468	08-Nov-13	11082013-001.SSF	481672.294	21065
722174.37	4294317.085	8607	08-Nov-13	11082013-001.SSF	481673.168	21066
722174.194	4294317.311	9262	08-Nov-13	11082013-001.SSF	481674.3	21067
722174.086	4294317.443	8975	08-Nov-13	11082013-001.SSF	481675.155	21068
722174.132	4294317.413	8483	08-Nov-13	11082013-001.SSF	481676.225	21069
722174.182	4294317.365	8121	08-Nov-13	11082013-001.SSF	481677.26	21070
722174.153	4294317.466	8000	08-Nov-13	11082013-001.SSF	481678.235	21071
722174.102	4294317.578	8330	08-Nov-13	11082013-001.SSF	481679.224	21072
722174.04	4294317.58	9162	08-Nov-13	11082013-001.SSF	481680.302	21073
722174.015	4294317.557	8020	08-Nov-13	11082013-001.SSF	481681.312	21074
722174.026	4294317.562	7705	08-Nov-13	11082013-001.SSF	481682.325	21075
722174.015	4294317.522	9366	08-Nov-13	11082013-001.SSF	481683.333	21076
722173.993	4294317.406	9541	08-Nov-13	11082013-001.SSF	481684.339	21077
722173.991	4294317.387	7785	08-Nov-13	11082013-001.SSF	481685.303	21078
722174.01	4294317.379	7946	08-Nov-13	11082013-001.SSF	481686.277	21079
722174.038	4294317.375	8616	08-Nov-13	11082013-001.SSF	481687.265	21080
722174.055	4294317.343	8154	08-Nov-13	11082013-001.SSF	481688.387	21081
722174.065	4294317.328	8518	08-Nov-13	11082013-001.SSF	481689.224	21082
722174.085	4294317.303	8009	08-Nov-13	11082013-001.SSF	481690.347	21083
722174.092	4294317.284	8752	08-Nov-13	11082013-001.SSF	481691.306	21084
722174.095	4294317.278	8608	08-Nov-13	11082013-001.SSF	481692.317	21085
722174.096	4294317.271	8542	08-Nov-13	11082013-001.SSF	481693.329	21086
722174.103	4294317.258	8585	08-Nov-13	11082013-001.SSF	481694.344	21087
722174.111	4294317.218	7756	08-Nov-13	11082013-001.SSF	481695.337	21088
722174.117	4294317.184	8809	08-Nov-13	11082013-001.SSF	481696.251	21089
722174.136	4294317.182	8322	08-Nov-13	11082013-001.SSF	481697.289	21090
722174.149	4294317.137	9430	08-Nov-13	11082013-001.SSF	481698.275	21091
722174.144	4294316.973	8867	08-Nov-13	11082013-001.SSF	481699.213	21092
722174.138	4294316.842	7916	08-Nov-13	11082013-001.SSF	481700.271	21093
722174.127	4294316.76	8429	08-Nov-13	11082013-001.SSF	481701.298	21094
722174.135	4294316.716	8617	08-Nov-13	11082013-001.SSF	481702.3	21095
722174.16	4294316.69	8514	08-Nov-13	11082013-001.SSF	481703.232	21096
722174.193	4294316.753	8308	08-Nov-13	11082013-001.SSF	481704.329	21097
722174.224	4294316.83	8137	08-Nov-13	11082013-001.SSF	481705.26	21098
722174.25	4294316.793	7194	08-Nov-13	11082013-001.SSF	481706.344	21099
722174.242	4294316.766	7708	08-Nov-13	11082013-001.SSF	481707.264	21100
722174.213	4294316.759	8467	08-Nov-13	11082013-001.SSF	481708.389	21101
722174.17	4294316.777	9346	08-Nov-13	11082013-001.SSF	481709.254	21102
722174.14	4294316.779	8876	08-Nov-13	11082013-001.SSF	481710.278	21103
722174.089	4294316.854	8909	08-Nov-13	11082013-001.SSF	481711.23	21104
722174.022	4294316.9	8587	08-Nov-13	11082013-001.SSF	481712.306	21105
722173.965	4294316.929	9016	08-Nov-13	11082013-001.SSF	481713.233	21106
722173.919	4294316.984	9244	08-Nov-13	11082013-001.SSF	481714.329	21107
722173.909	4294316.983	8941	08-Nov-13	11082013-001.SSF	481715.264	21108

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722173.881	4294317.004	8835	08-Nov-13	11082013-001.SSF	481716.333	21109
722173.815	4294317.099	8778	08-Nov-13	11082013-001.SSF	481717.269	21110
722173.786	4294317.134	8164	08-Nov-13	11082013-001.SSF	481718.335	21111
722173.821	4294317.131	9121	08-Nov-13	11082013-001.SSF	481719.259	21112
722173.863	4294317.143	9330	08-Nov-13	11082013-001.SSF	481720.329	21113
722173.88	4294317.143	9352	08-Nov-13	11082013-001.SSF	481721.244	21114
722173.831	4294317.13	8908	08-Nov-13	11082013-001.SSF	481722.321	21115
722173.828	4294317.169	7867	08-Nov-13	11082013-001.SSF	481723.226	21116
722173.996	4294317.394	7906	08-Nov-13	11082013-001.SSF	481724.325	21117
722174.029	4294317.55	9566	08-Nov-13	11082013-001.SSF	481725.27	21118
722174.107	4294317.537	9231	08-Nov-13	11082013-001.SSF	481726.315	21119
722174.422	4294317.455	8698	08-Nov-13	11082013-001.SSF	481727.249	21120
722174.6	4294317.205	8414	08-Nov-13	11082013-001.SSF	481728.33	21121
722174.605	4294316.974	9093	08-Nov-13	11082013-001.SSF	481729.22	21122
722174.725	4294316.869	7853	08-Nov-13	11082013-001.SSF	481730.263	21123
722174.821	4294316.823	8323	08-Nov-13	11082013-001.SSF	481731.235	21124
722174.892	4294316.783	8591	08-Nov-13	11082013-001.SSF	481732.317	21125
722174.927	4294316.765	8177	08-Nov-13	11082013-001.SSF	481733.301	21126
722174.977	4294316.737	8344	08-Nov-13	11082013-001.SSF	481734.343	21127
722175.047	4294316.743	9136	08-Nov-13	11082013-001.SSF	481735.276	21128
722175.022	4294316.814	7924	08-Nov-13	11082013-001.SSF	481736.235	21129
722175.008	4294316.816	8101	08-Nov-13	11082013-001.SSF	481737.292	21130
722175.033	4294316.68	8685	08-Nov-13	11082013-001.SSF	481738.278	21131
722174.782	4294316.623	7871	08-Nov-13	11082013-001.SSF	481739.272	21132
722174.672	4294316.651	8148	08-Nov-13	11082013-001.SSF	481740.345	21133
722174.8	4294316.752	8757	08-Nov-13	11082013-001.SSF	481741.313	21134
722174.916	4294316.825	8189	08-Nov-13	11082013-001.SSF	481742.35	21135
722174.958	4294316.794	8077	08-Nov-13	11082013-001.SSF	481743.338	21136
722174.981	4294316.767	8559	08-Nov-13	11082013-001.SSF	481744.303	21137
722174.967	4294316.781	7779	08-Nov-13	11082013-001.SSF	481745.292	21138
722174.896	4294316.775	8095	08-Nov-13	11082013-001.SSF	481746.383	21139
722174.623	4294316.727	7813	08-Nov-13	11082013-001.SSF	481747.35	21140
722174.345	4294316.534	8163	08-Nov-13	11082013-001.SSF	481748.371	21141
722174.281	4294316.338	8880	08-Nov-13	11082013-001.SSF	481749.358	21142
722174.386	4294316.351	9210	08-Nov-13	11082013-001.SSF	481750.291	21143
722174.585	4294316.439	9112	08-Nov-13	11082013-001.SSF	481751.291	21144
722174.273	4294316.579	8189	08-Nov-13	11082013-001.SSF	481753.273	21145
722174.067	4294316.546	8677	08-Nov-13	11082013-001.SSF	481754.287	21146
722173.84	4294316.355	8598	08-Nov-13	11082013-001.SSF	481755.196	21147
722173.429	4294316.119	8199	08-Nov-13	11082013-001.SSF	481756.273	21148
722173.088	4294315.958	9070	08-Nov-13	11082013-001.SSF	481757.143	21149
722172.703	4294315.608	8447	08-Nov-13	11082013-001.SSF	481758.309	21150
722172.508	4294315.222	7991	08-Nov-13	11082013-001.SSF	481759.279	21151
722172.231	4294314.887	7398	08-Nov-13	11082013-001.SSF	481760.307	21152
722172.059	4294314.416	8449	08-Nov-13	11082013-001.SSF	481761.282	21153
722171.791	4294313.719	8712	08-Nov-13	11082013-001.SSF	481762.386	21154
722171.497	4294313.107	8628	08-Nov-13	11082013-001.SSF	481763.316	21155

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722170.754	4294312.258	7724	08-Nov-13	11082013-001.SSF	481765.28	21157
722170.283	4294311.683	8441	08-Nov-13	11082013-001.SSF	481766.366	21158
722169.818	4294311.125	9100	08-Nov-13	11082013-001.SSF	481767.31	21159
722169.337	4294310.618	9085	08-Nov-13	11082013-001.SSF	481768.302	21160
722168.887	4294310.254	9321	08-Nov-13	11082013-001.SSF	481769.23	21161
722168.552	4294309.853	9380	08-Nov-13	11082013-001.SSF	481770.351	21162
722168.295	4294309.458	8105	08-Nov-13	11082013-001.SSF	481771.254	21163
722167.94	4294309.209	8626	08-Nov-13	11082013-001.SSF	481772.311	21164
722167.621	4294309.143	8636	08-Nov-13	11082013-001.SSF	481773.246	21165
722167.195	4294308.862	8129	08-Nov-13	11082013-001.SSF	481774.368	21166
722166.741	4294308.702	7372	08-Nov-13	11082013-001.SSF	481775.31	21167
722166.303	4294308.557	7123	08-Nov-13	11082013-001.SSF	481776.386	21168
722165.879	4294308.382	7240	08-Nov-13	11082013-001.SSF	481777.328	21169
722165.396	4294308.131	6700	08-Nov-13	11082013-001.SSF	481778.333	21170
722165.011	4294307.992	6325	08-Nov-13	11082013-001.SSF	481779.203	21171
722164.628	4294307.958	6471	08-Nov-13	11082013-001.SSF	481780.269	21172
722164.227	4294307.913	7527	08-Nov-13	11082013-001.SSF	481781.32	21173
722163.8	4294307.872	7852	08-Nov-13	11082013-001.SSF	481782.352	21174
722163.364	4294307.776	7063	08-Nov-13	11082013-001.SSF	481783.378	21175
722162.906	4294307.653	7585	08-Nov-13	11082013-001.SSF	481784.398	21176
722162.492	4294307.621	7746	08-Nov-13	11082013-001.SSF	481785.261	21177
722162.066	4294307.496	8416	08-Nov-13	11082013-001.SSF	481786.395	21178
722161.649	4294307.393	7054	08-Nov-13	11082013-001.SSF	481787.347	21179
722161.082	4294307.285	7163	08-Nov-13	11082013-001.SSF	481788.339	21180
722160.465	4294307.17	7671	08-Nov-13	11082013-001.SSF	481789.294	21181
722159.938	4294307.013	6687	08-Nov-13	11082013-001.SSF	481790.257	21182
722159.458	4294306.991	6262	08-Nov-13	11082013-001.SSF	481791.236	21183
722158.939	4294306.969	8345	08-Nov-13	11082013-001.SSF	481792.318	21184
722158.562	4294306.9	7846	08-Nov-13	11082013-001.SSF	481793.32	21185
722158.197	4294306.775	7451	08-Nov-13	11082013-001.SSF	481794.327	21186
722157.894	4294306.703	8163	08-Nov-13	11082013-001.SSF	481795.296	21187
722157.532	4294306.549	8160	08-Nov-13	11082013-001.SSF	481796.393	21188
722157.204	4294306.399	9540	08-Nov-13	11082013-001.SSF	481797.37	21189
722156.872	4294306.321	8775	08-Nov-13	11082013-001.SSF	481798.391	21190
722156.613	4294306.277	9843	08-Nov-13	11082013-001.SSF	481799.36	21191
722156.298	4294306.295	9811	08-Nov-13	11082013-001.SSF	481800.357	21192
722155.946	4294306.227	8782	08-Nov-13	11082013-001.SSF	481801.301	21193
722155.512	4294306.131	8795	08-Nov-13	11082013-001.SSF	481802.396	21194
722155.245	4294306.081	9429	08-Nov-13	11082013-001.SSF	481803.341	21195
722155.178	4294306.075	8057	08-Nov-13	11082013-001.SSF	481804.346	21196
722155.199	4294306.061	8948	08-Nov-13	11082013-001.SSF	481805.28	21197
722155.184	4294306.018	7793	08-Nov-13	11082013-001.SSF	481806.332	21198
722155.077	4294306.04	8698	08-Nov-13	11082013-001.SSF	481807.257	21199
722154.737	4294306.134	8834	08-Nov-13	11082013-001.SSF	481808.355	21200
722154.292	4294305.922	8898	08-Nov-13	11082013-001.SSF	481809.298	21201
722153.767	4294305.627	10024	08-Nov-13	11082013-001.SSF	481810.275	21202

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722153.004	4294305.308	8689	08-Nov-13	11082013-001.SSF	481812.291	21204
722152.648	4294305.204	8682	08-Nov-13	11082013-001.SSF	481813.254	21205
722152.109	4294304.997	8380	08-Nov-13	11082013-001.SSF	481814.29	21206
722151.441	4294304.788	9295	08-Nov-13	11082013-001.SSF	481815.291	21207
722150.809	4294304.533	9163	08-Nov-13	11082013-001.SSF	481816.297	21208
722150.398	4294304.247	9641	08-Nov-13	11082013-001.SSF	481817.27	21209
722150.047	4294304.161	8920	08-Nov-13	11082013-001.SSF	481818.217	21210
722149.633	4294304.124	9580	08-Nov-13	11082013-001.SSF	481819.135	21211
722149.169	4294304.026	8695	08-Nov-13	11082013-001.SSF	481820.336	21212
722148.828	4294303.913	8773	08-Nov-13	11082013-001.SSF	481821.288	21213
722148.479	4294303.818	8883	08-Nov-13	11082013-001.SSF	481822.319	21214
722148.154	4294303.783	9690	08-Nov-13	11082013-001.SSF	481823.172	21215
722147.668	4294303.709	8422	08-Nov-13	11082013-001.SSF	481824.331	21216
722147.25	4294303.514	8135	08-Nov-13	11082013-001.SSF	481825.274	21217
722146.774	4294303.227	8304	08-Nov-13	11082013-001.SSF	481826.364	21218
722146.397	4294303.011	8106	08-Nov-13	11082013-001.SSF	481827.3	21219
722146.023	4294302.83	7486	08-Nov-13	11082013-001.SSF	481828.341	21220
722145.688	4294302.674	8771	08-Nov-13	11082013-001.SSF	481829.28	21221
722145.315	4294302.39	6963	08-Nov-13	11082013-001.SSF	481830.343	21222
722145.021	4294302.087	7560	08-Nov-13	11082013-001.SSF	481831.3	21223
722144.762	4294301.873	7350	08-Nov-13	11082013-001.SSF	481832.316	21224
722144.525	4294301.796	8617	08-Nov-13	11082013-001.SSF	481833.262	21225
722144.259	4294301.69	7914	08-Nov-13	11082013-001.SSF	481834.311	21226
722144.031	4294301.628	7588	08-Nov-13	11082013-001.SSF	481835.275	21227
722143.82	4294301.398	7687	08-Nov-13	11082013-001.SSF	481836.319	21228
722143.589	4294301.136	7201	08-Nov-13	11082013-001.SSF	481837.262	21229
722143.273	4294300.886	7020	08-Nov-13	11082013-001.SSF	481838.31	21230
722142.991	4294300.706	5895	08-Nov-13	11082013-001.SSF	481839.169	21231
722142.586	4294300.467	5540	08-Nov-13	11082013-001.SSF	481840.269	21232
722142.231	4294300.245	6124	08-Nov-13	11082013-001.SSF	481841.125	21233
722141.599	4294299.963	6121	08-Nov-13	11082013-001.SSF	481842.306	21234
722141.171	4294299.717	7140	08-Nov-13	11082013-001.SSF	481843.228	21235
722140.761	4294299.468	7155	08-Nov-13	11082013-001.SSF	481844.198	21236
722140.359	4294299.218	8178	08-Nov-13	11082013-001.SSF	481845.262	21237
722140.061	4294299.02	7714	08-Nov-13	11082013-001.SSF	481846.189	21238
722139.732	4294298.685	6788	08-Nov-13	11082013-001.SSF	481847.26	21239
722139.388	4294298.285	6437	08-Nov-13	11082013-001.SSF	481848.312	21240
722139.123	4294297.878	5894	08-Nov-13	11082013-001.SSF	481849.317	21241
722138.872	4294297.518	6515	08-Nov-13	11082013-001.SSF	481850.239	21242
722138.509	4294297.168	6218	08-Nov-13	11082013-001.SSF	481851.191	21243
722138.016	4294296.914	6594	08-Nov-13	11082013-001.SSF	481852.271	21244
722137.541	4294296.747	5818	08-Nov-13	11082013-001.SSF	481853.254	21245
722137.067	4294296.574	5748	08-Nov-13	11082013-001.SSF	481854.343	21246
722136.65	4294296.479	5753	08-Nov-13	11082013-001.SSF	481855.294	21247
722136.253	4294296.379	6162	08-Nov-13	11082013-001.SSF	481856.228	21248
722135.76	4294296.18	6940	08-Nov-13	11082013-001.SSF	481857.34	21249

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722134.827	4294295.823	6021	08-Nov-13	11082013-001.SSF	481859.265	21251
722134.463	4294295.551	5917	08-Nov-13	11082013-001.SSF	481860.286	21252
722134.122	4294295.302	6088	08-Nov-13	11082013-001.SSF	481861.201	21253
722133.766	4294295.01	5992	08-Nov-13	11082013-001.SSF	481862.306	21254
722133.461	4294294.778	5967	08-Nov-13	11082013-001.SSF	481863.207	21255
722133.174	4294294.56	5538	08-Nov-13	11082013-001.SSF	481864.194	21256
722132.793	4294294.377	6517	08-Nov-13	11082013-001.SSF	481865.303	21257
722132.326	4294294.104	6279	08-Nov-13	11082013-001.SSF	481866.346	21258
722131.906	4294293.815	6669	08-Nov-13	11082013-001.SSF	481867.299	21259
722131.573	4294293.513	6587	08-Nov-13	11082013-001.SSF	481868.3	21260
722131.251	4294293.254	6806	08-Nov-13	11082013-001.SSF	481869.208	21261
722130.933	4294292.954	6081	08-Nov-13	11082013-001.SSF	481870.266	21262
722130.665	4294292.778	6210	08-Nov-13	11082013-001.SSF	481871.123	21263
722130.342	4294292.517	5898	08-Nov-13	11082013-001.SSF	481872.29	21264
722130.116	4294292.394	6430	08-Nov-13	11082013-001.SSF	481873.117	21265
722129.95	4294292.141	7097	08-Nov-13	11082013-001.SSF	481874.284	21266
722129.867	4294291.908	6394	08-Nov-13	11082013-001.SSF	481875.168	21267
722129.521	4294291.802	7718	08-Nov-13	11082013-001.SSF	481876.319	21268
722129.26	4294291.654	7449	08-Nov-13	11082013-001.SSF	481877.208	21269
722128.922	4294291.469	6422	08-Nov-13	11082013-001.SSF	481878.307	21270
722128.672	4294291.362	6885	08-Nov-13	11082013-001.SSF	481879.181	21271
722128.337	4294291.291	7751	08-Nov-13	11082013-001.SSF	481880.352	21272
722128.138	4294291.082	7248	08-Nov-13	11082013-001.SSF	481881.308	21273
722127.862	4294290.897	6063	08-Nov-13	11082013-001.SSF	481882.318	21274
722127.594	4294290.7	6795	08-Nov-13	11082013-001.SSF	481883.185	21275
722127.073	4294290.364	6348	08-Nov-13	11082013-001.SSF	481884.309	21276
722126.57	4294290.024	6867	08-Nov-13	11082013-001.SSF	481885.278	21277
722125.937	4294289.91	7657	08-Nov-13	11082013-001.SSF	481886.307	21278
722125.337	4294290.114	7224	08-Nov-13	11082013-001.SSF	481887.312	21279
722125.318	4294290.529	7206	08-Nov-13	11082013-001.SSF	481888.316	21280
722125.795	4294291.083	6931	08-Nov-13	11082013-001.SSF	481889.301	21281
722126.517	4294291.572	6472	08-Nov-13	11082013-001.SSF	481890.385	21282
722127.019	4294291.894	6598	08-Nov-13	11082013-001.SSF	481891.326	21283
722127.457	4294292.177	7049	08-Nov-13	11082013-001.SSF	481892.368	21284
722127.921	4294292.468	7072	08-Nov-13	11082013-001.SSF	481893.33	21285
722128.429	4294292.712	7078	08-Nov-13	11082013-001.SSF	481894.295	21286
722128.778	4294292.936	5849	08-Nov-13	11082013-001.SSF	481895.286	21287
722129.018	4294293.228	6207	08-Nov-13	11082013-001.SSF	481896.352	21288
722129.308	4294293.357	5572	08-Nov-13	11082013-001.SSF	481897.328	21289
722129.626	4294293.447	6089	08-Nov-13	11082013-001.SSF	481898.301	21290
722129.944	4294293.601	7042	08-Nov-13	11082013-001.SSF	481899.263	21291
722130.294	4294293.792	7940	08-Nov-13	11082013-001.SSF	481900.298	21292
722130.59	4294294.077	6935	08-Nov-13	11082013-001.SSF	481901.261	21293
722130.953	4294294.37	4913	08-Nov-13	11082013-001.SSF	481902.323	21294
722131.372	4294294.654	5628	08-Nov-13	11082013-001.SSF	481903.281	21295
722131.837	4294294.935	5693	08-Nov-13	11082013-001.SSF	481904.317	21296

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722132.489	4294295.406	6547	08-Nov-13	11082013-001.SSF	481906.341	21298
722132.824	4294295.685	6550	08-Nov-13	11082013-001.SSF	481907.321	21299
722133.214	4294295.915	6347	08-Nov-13	11082013-001.SSF	481908.344	21300
722133.655	4294296.218	6956	08-Nov-13	11082013-001.SSF	481909.377	21301
722134.116	4294296.501	6779	08-Nov-13	11082013-001.SSF	481910.363	21302
722134.499	4294296.822	6105	08-Nov-13	11082013-001.SSF	481911.313	21303
722134.835	4294297.159	6356	08-Nov-13	11082013-001.SSF	481912.328	21304
722135.137	4294297.453	6028	08-Nov-13	11082013-001.SSF	481913.199	21305
722135.578	4294297.676	6610	08-Nov-13	11082013-001.SSF	481914.326	21306
722135.94	4294297.919	5943	08-Nov-13	11082013-001.SSF	481915.276	21307
722136.344	4294298.145	5784	08-Nov-13	11082013-001.SSF	481916.251	21308
722136.776	4294298.49	5991	08-Nov-13	11082013-001.SSF	481917.189	21309
722137.283	4294298.847	6431	08-Nov-13	11082013-001.SSF	481918.314	21310
722137.59	4294299.068	5688	08-Nov-13	11082013-001.SSF	481919.084	21311
722138.064	4294299.336	6259	08-Nov-13	11082013-001.SSF	481920.307	21312
722138.392	4294299.6	6544	08-Nov-13	11082013-001.SSF	481921.152	21313
722138.942	4294299.83	7036	08-Nov-13	11082013-001.SSF	481922.39	21314
722139.271	4294299.99	6739	08-Nov-13	11082013-001.SSF	481923.165	21315
722139.791	4294300.345	7234	08-Nov-13	11082013-001.SSF	481924.354	21316
722140.121	4294300.658	6518	08-Nov-13	11082013-001.SSF	481925.18	21317
722140.576	4294300.937	7479	08-Nov-13	11082013-001.SSF	481926.35	21318
722140.889	4294301.098	6640	08-Nov-13	11082013-001.SSF	481927.294	21319
722141.207	4294301.234	6310	08-Nov-13	11082013-001.SSF	481928.299	21320
722141.55	4294301.465	5696	08-Nov-13	11082013-001.SSF	481929.267	21321
722142.003	4294301.742	5506	08-Nov-13	11082013-001.SSF	481930.308	21322
722142.395	4294302.038	6120	08-Nov-13	11082013-001.SSF	481931.277	21323
722142.819	4294302.307	5775	08-Nov-13	11082013-001.SSF	481932.306	21324
722143.208	4294302.646	7010	08-Nov-13	11082013-001.SSF	481933.289	21325
722143.521	4294302.893	8202	08-Nov-13	11082013-001.SSF	481934.331	21326
722143.782	4294303.132	8380	08-Nov-13	11082013-001.SSF	481935.271	21327
722144.125	4294303.375	9475	08-Nov-13	11082013-001.SSF	481936.274	21328
722144.523	4294303.604	10138	08-Nov-13	11082013-001.SSF	481937.276	21329
722144.972	4294303.804	7994	08-Nov-13	11082013-001.SSF	481938.311	21330
722145.362	4294303.998	9468	08-Nov-13	11082013-001.SSF	481939.196	21331
722145.846	4294304.056	8907	08-Nov-13	11082013-001.SSF	481940.37	21332
722146.202	4294304.151	8946	08-Nov-13	11082013-001.SSF	481941.365	21333
722146.552	4294304.284	9346	08-Nov-13	11082013-001.SSF	481942.37	21334
722146.862	4294304.444	9476	08-Nov-13	11082013-001.SSF	481943.142	21335
722147.416	4294304.675	10049	08-Nov-13	11082013-001.SSF	481944.313	21336
722147.73	4294304.807	8782	08-Nov-13	11082013-001.SSF	481945.083	21337
722147.826	4294304.825	9395	08-Nov-13	11082013-001.SSF	481946.272	21338
722147.733	4294304.718	9488	08-Nov-13	11082013-001.SSF	481947.159	21339
722147.462	4294304.739	9122	08-Nov-13	11082013-001.SSF	481948.244	21340
722147.298	4294304.773	9300	08-Nov-13	11082013-001.SSF	481949.067	21341
722147.077	4294304.733	9345	08-Nov-13	11082013-001.SSF	481950.293	21342
722146.999	4294304.685	9236	08-Nov-13	11082013-001.SSF	481951.198	21343

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722147.325	4294304.7	9450	08-Nov-13	11082013-001.SSF	481953.159	21345
722147.741	4294304.847	8902	08-Nov-13	11082013-001.SSF	481954.256	21346
722148.084	4294305.017	8915	08-Nov-13	11082013-001.SSF	481955.265	21347
722148.465	4294305.233	9578	08-Nov-13	11082013-001.SSF	481956.306	21348
722148.914	4294305.539	8934	08-Nov-13	11082013-001.SSF	481957.316	21349
722149.454	4294305.859	10153	08-Nov-13	11082013-001.SSF	481958.358	21350
722149.822	4294306.064	9858	08-Nov-13	11082013-001.SSF	481959.292	21351
722149.991	4294306.087	8404	08-Nov-13	11082013-001.SSF	481960.295	21352
722150.002	4294306.106	8731	08-Nov-13	11082013-001.SSF	481961.254	21353
722149.875	4294306.282	9202	08-Nov-13	11082013-001.SSF	481962.29	21354
722149.769	4294306.328	8690	08-Nov-13	11082013-001.SSF	481963.245	21355
722149.754	4294306.201	10122	08-Nov-13	11082013-001.SSF	481964.286	21356
722149.763	4294306.16	9940	08-Nov-13	11082013-001.SSF	481965.167	21357
722149.77	4294306.164	10375	08-Nov-13	11082013-001.SSF	481966.334	21358
722149.769	4294306.173	9343	08-Nov-13	11082013-001.SSF	481967.294	21359
722149.763	4294306.175	9776	08-Nov-13	11082013-001.SSF	481968.334	21360
722149.76	4294306.162	9944	08-Nov-13	11082013-001.SSF	481969.135	21361
722149.761	4294306.138	8816	08-Nov-13	11082013-001.SSF	481970.283	21362
722149.762	4294306.129	8714	08-Nov-13	11082013-001.SSF	481971.107	21363
722149.779	4294306.137	9048	08-Nov-13	11082013-001.SSF	481972.267	21364
722149.771	4294306.145	8712	08-Nov-13	11082013-001.SSF	481973.168	21365
722149.779	4294306.183	8808	08-Nov-13	11082013-001.SSF	481974.219	21366
722149.785	4294306.188	9372	08-Nov-13	11082013-001.SSF	481975.175	21367
722149.842	4294306.169	8703	08-Nov-13	11082013-001.SSF	481976.292	21368
722149.858	4294306.152	9525	08-Nov-13	11082013-001.SSF	481977.19	21369
722149.858	4294306.147	9281	08-Nov-13	11082013-001.SSF	481978.265	21370
722149.853	4294306.128	9190	08-Nov-13	11082013-001.SSF	481979.186	21371
722149.906	4294306.127	8657	08-Nov-13	11082013-001.SSF	481980.302	21372
722150.061	4294306.142	7954	08-Nov-13	11082013-001.SSF	481981.149	21373
722150.54	4294306.247	8408	08-Nov-13	11082013-001.SSF	481982.381	21374
722150.911	4294306.407	7982	08-Nov-13	11082013-001.SSF	481983.214	21375
722151.273	4294306.567	8445	08-Nov-13	11082013-001.SSF	481984.198	21376
722151.55	4294306.618	8831	08-Nov-13	11082013-001.SSF	481985.172	21377
722151.964	4294306.707	8118	08-Nov-13	11082013-001.SSF	481986.326	21378
722152.302	4294306.642	8509	08-Nov-13	11082013-001.SSF	481987.21	21379
722152.741	4294306.72	9417	08-Nov-13	11082013-001.SSF	481988.287	21380
722153.131	4294306.84	10904	08-Nov-13	11082013-001.SSF	481989.192	21381
722153.724	4294307.049	10376	08-Nov-13	11082013-001.SSF	481990.303	21382
722154.194	4294307.058	9284	08-Nov-13	11082013-001.SSF	481991.126	21383
722154.745	4294307.133	8801	08-Nov-13	11082013-001.SSF	481992.323	21384
722155.022	4294307.166	9220	08-Nov-13	11082013-001.SSF	481993.266	21385
722155.071	4294307.199	9055	08-Nov-13	11082013-001.SSF	481994.259	21386
722154.987	4294307.238	8893	08-Nov-13	11082013-001.SSF	481995.295	21387
722154.967	4294307.289	10053	08-Nov-13	11082013-001.SSF	481996.27	21388
722154.975	4294307.312	9353	08-Nov-13	11082013-001.SSF	481997.32	21389
722154.993	4294307.351	9328	08-Nov-13	11082013-001.SSF	481998.254	21390

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722154.813	4294307.44	9172	08-Nov-13	11082013-001.SSF	481999.296	21391
722154.684	4294307.461	10543	08-Nov-13	11082013-001.SSF	482000.357	21392
722154.732	4294307.437	10735	08-Nov-13	11082013-001.SSF	482001.325	21393
722154.811	4294307.417	10214	08-Nov-13	11082013-001.SSF	482002.291	21394
722154.898	4294307.41	9993	08-Nov-13	11082013-001.SSF	482003.228	21395
722155.082	4294307.39	10448	08-Nov-13	11082013-001.SSF	482004.288	21396
722155.071	4294307.367	9752	08-Nov-13	11082013-001.SSF	482005.153	21397
722154.889	4294307.357	9938	08-Nov-13	11082013-001.SSF	482006.289	21398
722154.838	4294307.376	9324	08-Nov-13	11082013-001.SSF	482007.236	21399
722154.813	4294307.413	9681	08-Nov-13	11082013-001.SSF	482008.271	21400
722154.834	4294307.43	9530	08-Nov-13	11082013-001.SSF	482009.099	21401
722154.932	4294307.474	9252	08-Nov-13	11082013-001.SSF	482010.349	21402
722155.13	4294307.492	9243	08-Nov-13	11082013-001.SSF	482011.176	21403
722155.654	4294307.337	9300	08-Nov-13	11082013-001.SSF	482012.341	21404
722156.157	4294307.398	7725	08-Nov-13	11082013-001.SSF	482013.264	21405
722156.868	4294307.557	8141	08-Nov-13	11082013-001.SSF	482014.317	21406
722157.482	4294307.694	8395	08-Nov-13	11082013-001.SSF	482015.277	21407
722158.161	4294307.799	7139	08-Nov-13	11082013-001.SSF	482016.371	21408
722158.594	4294307.9	7604	08-Nov-13	11082013-001.SSF	482017.169	21409
722158.935	4294307.976	7601	08-Nov-13	11082013-001.SSF	482018.34	21410
722159.237	4294308.099	7570	08-Nov-13	11082013-001.SSF	482019.278	21411
722159.783	4294308.281	7862	08-Nov-13	11082013-001.SSF	482020.298	21412
722160.227	4294308.468	6855	08-Nov-13	11082013-001.SSF	482021.205	21413
722160.622	4294308.664	7263	08-Nov-13	11082013-001.SSF	482022.25	21414
722160.995	4294308.834	6586	08-Nov-13	11082013-001.SSF	482023.258	21415
722161.379	4294308.921	7106	08-Nov-13	11082013-001.SSF	482024.221	21416
722161.799	4294308.99	6486	08-Nov-13	11082013-001.SSF	482025.261	21417
722162.314	4294309.054	6271	08-Nov-13	11082013-001.SSF	482026.316	21418
722162.844	4294309.117	6097	08-Nov-13	11082013-001.SSF	482027.232	21419
722163.465	4294309.346	6654	08-Nov-13	11082013-001.SSF	482028.271	21420
722164.072	4294309.539	6567	08-Nov-13	11082013-001.SSF	482029.13	21421
722164.853	4294309.767	6671	08-Nov-13	11082013-001.SSF	482030.266	21422
722165.427	4294309.898	7727	08-Nov-13	11082013-001.SSF	482031.124	21423
722166.071	4294310.045	7751	08-Nov-13	11082013-001.SSF	482032.27	21424
722166.545	4294310.154	8598	08-Nov-13	11082013-001.SSF	482033.288	21425
722167.086	4294310.289	8359	08-Nov-13	11082013-001.SSF	482034.333	21426
722167.599	4294310.419	8689	08-Nov-13	11082013-001.SSF	482035.16	21427
722168.172	4294310.566	8052	08-Nov-13	11082013-001.SSF	482036.145	21428
722168.379	4294310.93	7773	08-Nov-13	11082013-001.SSF	482037.121	21429
722168.484	4294311.463	8093	08-Nov-13	11082013-001.SSF	482038.263	21430
722168.527	4294311.686	8953	08-Nov-13	11082013-001.SSF	482039.222	21431
722168.701	4294311.902	8448	08-Nov-13	11082013-001.SSF	482040.292	21432
722168.967	4294312.218	9102	08-Nov-13	11082013-001.SSF	482041.14	21433
722169.327	4294312.677	8575	08-Nov-13	11082013-001.SSF	482042.341	21434
722169.495	4294313.148	8324	08-Nov-13	11082013-001.SSF	482043.278	21435
722169.827	4294313.762	7481	08-Nov-13	11082013-001.SSF	482044.222	21436
722170.39	4294314.451	7960	08-Nov-13	11082013-001.SSF	482045.299	21437

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722170.73	4294314.798	7390	08-Nov-13	11082013-001.SSF	482046.231	21438
722170.876	4294314.992	7547	08-Nov-13	11082013-001.SSF	482047.135	21439
722171.277	4294315.427	7166	08-Nov-13	11082013-001.SSF	482048.304	21440
722171.524	4294315.814	7971	08-Nov-13	11082013-001.SSF	482049.192	21441
722171.741	4294316.146	7843	08-Nov-13	11082013-001.SSF	482050.173	21442
722171.934	4294316.661	7780	08-Nov-13	11082013-001.SSF	482051.164	21443
722172.247	4294317.315	7945	08-Nov-13	11082013-001.SSF	482052.267	21444
722172.651	4294317.79	8046	08-Nov-13	11082013-001.SSF	482053.252	21445
722173.147	4294318.019	8521	08-Nov-13	11082013-001.SSF	482054.293	21446
722173.641	4294318.19	8460	08-Nov-13	11082013-001.SSF	482055.202	21447
722174.352	4294318.307	8415	08-Nov-13	11082013-001.SSF	482056.322	21448
722174.845	4294318.427	8493	08-Nov-13	11082013-001.SSF	482057.205	21449
722175.419	4294318.55	8423	08-Nov-13	11082013-001.SSF	482058.363	21450
722175.804	4294318.652	8796	08-Nov-13	11082013-001.SSF	482059.246	21451
722176.278	4294318.679	9639	08-Nov-13	11082013-001.SSF	482060.329	21452
722176.645	4294318.617	9069	08-Nov-13	11082013-001.SSF	482061.307	21453
722177.028	4294318.522	8687	08-Nov-13	11082013-001.SSF	482062.279	21454
722177.427	4294318.504	8891	08-Nov-13	11082013-001.SSF	482063.114	21455
722178.001	4294318.416	8943	08-Nov-13	11082013-001.SSF	482064.361	21456
722178.482	4294318.481	8985	08-Nov-13	11082013-001.SSF	482065.288	21457
722179.041	4294318.576	8426	08-Nov-13	11082013-001.SSF	482066.289	21458
722179.47	4294318.737	8946	08-Nov-13	11082013-001.SSF	482067.151	21459
722179.943	4294318.769	9346	08-Nov-13	11082013-001.SSF	482068.32	21460
722180.365	4294318.619	8456	08-Nov-13	11082013-001.SSF	482069.318	21461
722180.669	4294318.405	8804	08-Nov-13	11082013-001.SSF	482070.313	21462
722180.947	4294318.296	9221	08-Nov-13	11082013-001.SSF	482071.221	21463
722181.344	4294318.217	9385	08-Nov-13	11082013-001.SSF	482072.248	21464
722181.692	4294318.156	8376	08-Nov-13	11082013-001.SSF	482073.187	21465
722182.094	4294318.145	8154	08-Nov-13	11082013-001.SSF	482074.307	21466
722182.371	4294318.036	8578	08-Nov-13	11082013-001.SSF	482075.276	21467
722182.688	4294318.014	8384	08-Nov-13	11082013-001.SSF	482076.355	21468
722183.032	4294317.924	8456	08-Nov-13	11082013-001.SSF	482077.287	21469
722183.714	4294317.878	9104	08-Nov-13	11082013-001.SSF	482078.356	21470
722184.31	4294317.876	8906	08-Nov-13	11082013-001.SSF	482079.179	21471
722184.889	4294317.859	9396	08-Nov-13	11082013-001.SSF	482080.307	21472
722185.277	4294317.755	9129	08-Nov-13	11082013-001.SSF	482081.141	21473
722185.891	4294317.595	8372	08-Nov-13	11082013-001.SSF	482082.298	21474
722186.311	4294317.442	8843	08-Nov-13	11082013-001.SSF	482083.159	21475
722187.106	4294317.516	9290	08-Nov-13	11082013-001.SSF	482084.356	21476
722187.753	4294317.616	7962	08-Nov-13	11082013-001.SSF	482085.291	21477
722188.197	4294317.73	8350	08-Nov-13	11082013-001.SSF	482086.204	21478
722188.662	4294317.853	7457	08-Nov-13	11082013-001.SSF	482087.288	21479
722189.154	4294318.051	8404	08-Nov-13	11082013-001.SSF	482088.319	21480
722189.757	4294318.15	6661	08-Nov-13	11082013-001.SSF	482089.262	21481
722190.519	4294318.36	8325	08-Nov-13	11082013-001.SSF	482090.291	21482
722191.088	4294318.468	7361	08-Nov-13	11082013-001.SSF	482091.12	21483
722191.767	4294318.51	7630	08-Nov-13	11082013-001.SSF	482092.272	21484

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722192.314	4294318.513	7457	08-Nov-13	11082013-001.SSF	482093.145	21485
722192.969	4294318.569	7204	08-Nov-13	11082013-001.SSF	482094.298	21486
722193.384	4294318.498	6871	08-Nov-13	11082013-001.SSF	482095.257	21487
722193.857	4294318.587	6037	08-Nov-13	11082013-001.SSF	482096.31	21488
722194.359	4294318.752	6374	08-Nov-13	11082013-001.SSF	482097.138	21489
722195.188	4294319.046	6693	08-Nov-13	11082013-001.SSF	482098.274	21490
722195.757	4294319.173	6533	08-Nov-13	11082013-001.SSF	482099.106	21491
722196.453	4294319.287	7033	08-Nov-13	11082013-001.SSF	482100.288	21492
722197.011	4294319.327	7398	08-Nov-13	11082013-001.SSF	482101.256	21493
722197.605	4294319.474	5899	08-Nov-13	11082013-001.SSF	482102.27	21494
722198.258	4294319.612	6097	08-Nov-13	11082013-001.SSF	482103.262	21495
722198.809	4294319.716	7344	08-Nov-13	11082013-001.SSF	482104.215	21496
722199.15	4294319.777	7686	08-Nov-13	11082013-001.SSF	482105.187	21497
722199.319	4294320.002	6391	08-Nov-13	11082013-001.SSF	482106.2679	21498
722199.532	4294320.222	7297	08-Nov-13	11082013-001.SSF	482107.126	21499
722199.879	4294320.593	7104	08-Nov-13	11082013-001.SSF	482108.297	21500
722200.221	4294320.856	6786	08-Nov-13	11082013-001.SSF	482109.175	21501
722200.644	4294321.129	6436	08-Nov-13	11082013-001.SSF	482110.199	21502
722201.014	4294321.293	6499	08-Nov-13	11082013-001.SSF	482111.089	21503
722201.455	4294321.561	7204	08-Nov-13	11082013-001.SSF	482112.172	21504
722201.762	4294321.682	6571	08-Nov-13	11082013-001.SSF	482113.199	21505
722202.182	4294321.817	6064	08-Nov-13	11082013-001.SSF	482114.2729	21506
722202.794	4294321.949	5934	08-Nov-13	11082013-001.SSF	482115.264	21507
722203.397	4294321.966	6277	08-Nov-13	11082013-001.SSF	482116.191	21508
722203.933	4294321.936	5819	08-Nov-13	11082013-001.SSF	482117.177	21509
722204.584	4294322.028	5977	08-Nov-13	11082013-001.SSF	482118.306	21510
722205.099	4294322.095	6831	08-Nov-13	11082013-001.SSF	482119.255	21511
722205.677	4294322.169	6717	08-Nov-13	11082013-001.SSF	482120.257	21512
722206.216	4294322.239	6569	08-Nov-13	11082013-001.SSF	482121.1	21513
722206.947	4294322.4	6592	08-Nov-13	11082013-001.SSF	482122.316	21514
722207.325	4294322.434	5816	08-Nov-13	11082013-001.SSF	482123.103	21515
722207.903	4294322.523	5592	08-Nov-13	11082013-001.SSF	482124.306	21516
722208.43	4294322.626	5620	08-Nov-13	11082013-001.SSF	482125.22	21517
722209.13	4294322.791	5539	08-Nov-13	11082013-001.SSF	482126.28	21518
722209.673	4294322.874	5020	08-Nov-13	11082013-001.SSF	482127.183	21519
722210.091	4294322.866	5644	08-Nov-13	11082013-001.SSF	482128.191	21520
722210.06	4294322.928	5424	08-Nov-13	11082013-001.SSF	482129.215	21521
722209.993	4294323.412	5901	08-Nov-13	11082013-001.SSF	482130.176	21522
722209.989	4294323.679	5753	08-Nov-13	11082013-001.SSF	482131.084	21523
722210.041	4294323.719	5733	08-Nov-13	11082013-001.SSF	482132.265	21524
722210.056	4294323.755	5490	08-Nov-13	11082013-001.SSF	482133.134	21525
722209.914	4294323.739	5675	08-Nov-13	11082013-001.SSF	482134.173	21526
722209.569	4294323.598	5660	08-Nov-13	11082013-001.SSF	482135.184	21527
722208.925	4294323.593	5936	08-Nov-13	11082013-001.SSF	482136.3101	21528
722208.373	4294323.528	6576	08-Nov-13	11082013-001.SSF	482137.165	21529
722207.655	4294323.279	6474	08-Nov-13	11082013-001.SSF	482138.3521	21530
722207.21	4294323.114	6388	08-Nov-13	11082013-001.SSF	482139.137	21531

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722206.743	4294322.951	5785	08-Nov-13	11082013-001.SSF	482140.161	21532
722206.374	4294322.785	6157	08-Nov-13	11082013-001.SSF	482141.1	21533
722205.877	4294322.55	7869	08-Nov-13	11082013-001.SSF	482142.269	21534
722205.475	4294322.362	7247	08-Nov-13	11082013-001.SSF	482143.145	21535
722204.94	4294322.244	7031	08-Nov-13	11082013-001.SSF	482144.191	21536
722204.56	4294322.167	6438	08-Nov-13	11082013-001.SSF	482145.1281	21537
722204.053	4294322.082	5609	08-Nov-13	11082013-001.SSF	482146.264	21538
722203.594	4294321.969	5915	08-Nov-13	11082013-001.SSF	482147.139	21539
722202.993	4294321.762	5892	08-Nov-13	11082013-001.SSF	482148.157	21540
722202.392	4294321.601	5977	08-Nov-13	11082013-001.SSF	482149.0959	21541
722201.72	4294321.576	5421	08-Nov-13	11082013-001.SSF	482150.187	21542
722201.21	4294321.539	6364	08-Nov-13	11082013-001.SSF	482151.083	21543
722200.726	4294321.245	6241	08-Nov-13	11082013-001.SSF	482152.127	21544
722200.213	4294321.08	6510	08-Nov-13	11082013-001.SSF	482153.058	21545
722199.617	4294320.958	8017	08-Nov-13	11082013-001.SSF	482154.189	21546
722199.058	4294320.835	7254	08-Nov-13	11082013-001.SSF	482155.1169	21547
722198.45	4294320.644	7573	08-Nov-13	11082013-001.SSF	482156.292	21548
722197.953	4294320.544	5883	08-Nov-13	11082013-001.SSF	482157.147	21549
722197.207	4294320.358	6384	08-Nov-13	11082013-001.SSF	482158.2371	21550
722196.569	4294320.245	6426	08-Nov-13	11082013-001.SSF	482159.174	21551
722195.868	4294320.149	6886	08-Nov-13	11082013-001.SSF	482160.292	21552
722195.408	4294320.069	6131	08-Nov-13	11082013-001.SSF	482161.1	21553
722194.606	4294319.821	6123	08-Nov-13	11082013-001.SSF	482162.379	21554
722194.148	4294319.713	6090	08-Nov-13	11082013-001.SSF	482163.0031	21555
722193.582	4294319.582	7222	08-Nov-13	11082013-001.SSF	482164.083	21556
722193.165	4294319.612	7745	08-Nov-13	11082013-001.SSF	482165.119	21557
722192.908	4294319.471	7276	08-Nov-13	11082013-001.SSF	482166.167	21558
722192.648	4294319.412	7129	08-Nov-13	11082013-001.SSF	482167.064	21559
722192.012	4294319.22	7902	08-Nov-13	11082013-001.SSF	482168.281	21560
722191.502	4294319.04	7675	08-Nov-13	11082013-001.SSF	482169.094	21561
722190.907	4294318.829	6359	08-Nov-13	11082013-001.SSF	482170.287	21562
722190.514	4294318.665	8519	08-Nov-13	11082013-001.SSF	482171.104	21563
722189.903	4294318.491	7950	08-Nov-13	11082013-001.SSF	482172.272	21564
722189.401	4294318.396	9007	08-Nov-13	11082013-001.SSF	482173.168	21565
722188.845	4294318.272	8431	08-Nov-13	11082013-001.SSF	482174.264	21566
722188.346	4294318.139	8407	08-Nov-13	11082013-001.SSF	482175.109	21567
722187.723	4294318.028	8462	08-Nov-13	11082013-001.SSF	482176.196	21568
722187.194	4294318.038	7665	08-Nov-13	11082013-001.SSF	482177.084	21569
722186.578	4294318.136	8426	08-Nov-13	11082013-001.SSF	482178.151	21570
722185.94	4294318.231	8436	08-Nov-13	11082013-001.SSF	482179.1021	21571
722185.325	4294318.376	8529	08-Nov-13	11082013-001.SSF	482180.165	21572
722184.76	4294318.477	7352	08-Nov-13	11082013-001.SSF	482181.0699	21573
722184.11	4294318.591	8948	08-Nov-13	11082013-001.SSF	482182.292	21574
722183.636	4294318.597	7697	08-Nov-13	11082013-001.SSF	482183.108	21575
722182.845	4294318.806	9484	08-Nov-13	11082013-001.SSF	482184.288	21576
722182.06	4294319.064	9871	08-Nov-13	11082013-001.SSF	482185.163	21577
722181.277	4294319.488	9067	08-Nov-13	11082013-001.SSF	482186.2629	21578

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722180.221	4294319.693	8659	08-Nov-13	11082013-001.SSF	482188.324	21580
722179.782	4294319.634	8884	08-Nov-13	11082013-001.SSF	482189.1379	21581
722179.243	4294319.638	8701	08-Nov-13	11082013-001.SSF	482190.1331	21582
722178.713	4294319.621	7665	08-Nov-13	11082013-001.SSF	482191.1479	21583
722178.114	4294319.592	8306	08-Nov-13	11082013-001.SSF	482192.127	21584
722177.615	4294319.546	9156	08-Nov-13	11082013-001.SSF	482193.165	21585
722177.299	4294319.607	8409	08-Nov-13	11082013-001.SSF	482194.301	21586
722177.079	4294319.56	8072	08-Nov-13	11082013-001.SSF	482195.082	21587
722176.625	4294319.382	7898	08-Nov-13	11082013-001.SSF	482196.1541	21588
722176.235	4294319.295	7974	08-Nov-13	11082013-001.SSF	482197.066	21589
722175.709	4294319.155	8353	08-Nov-13	11082013-001.SSF	482198.149	21590
722175.31	4294319.012	8448	08-Nov-13	11082013-001.SSF	482199.114	21591
722174.749	4294319.008	8052	08-Nov-13	11082013-001.SSF	482200.156	21592
722174.22	4294318.803	8913	08-Nov-13	11082013-001.SSF	482201.033	21593
722173.52	4294318.402	8498	08-Nov-13	11082013-001.SSF	482202.098	21594
722173.13	4294318.104	9534	08-Nov-13	11082013-001.SSF	482203.092	21595
722172.751	4294317.958	7963	08-Nov-13	11082013-001.SSF	482204.208	21596
722172.481	4294317.816	8171	08-Nov-13	11082013-001.SSF	482205.198	21597
722172.141	4294317.564	8432	08-Nov-13	11082013-001.SSF	482206.231	21598
722171.863	4294317.218	9008	08-Nov-13	11082013-001.SSF	482207.126	21599
722171.447	4294316.808	8252	08-Nov-13	11082013-001.SSF	482208.176	21600
722171.131	4294316.344	7493	08-Nov-13	11082013-001.SSF	482209.059	21601
722170.72	4294315.606	7393	08-Nov-13	11082013-001.SSF	482210.296	21602
722170.463	4294315.058	7428	08-Nov-13	11082013-001.SSF	482211.181	21603
722170.096	4294314.472	7437	08-Nov-13	11082013-001.SSF	482212.177	21604
722169.707	4294313.843	6899	08-Nov-13	11082013-001.SSF	482213.214	21605
722169.431	4294313.388	7455	08-Nov-13	11082013-001.SSF	482214.3051	21606
722169.286	4294313.154	8883	08-Nov-13	11082013-001.SSF	482215.1801	21607
722168.971	4294312.775	8280	08-Nov-13	11082013-001.SSF	482216.302	21608
722168.624	4294312.404	7920	08-Nov-13	11082013-001.SSF	482217.132	21609
722168.151	4294311.93	8130	08-Nov-13	11082013-001.SSF	482218.2791	21610
722167.767	4294311.825	8092	08-Nov-13	11082013-001.SSF	482219.184	21611
722167.305	4294311.86	8263	08-Nov-13	11082013-001.SSF	482220.2679	21612
722167.056	4294312.117	8186	08-Nov-13	11082013-001.SSF	482221.119	21613
722166.654	4294312.527	8346	08-Nov-13	11082013-001.SSF	482222.295	21614
722166.574	4294312.73	9076	08-Nov-13	11082013-001.SSF	482223.13	21615
722166.641	4294312.729	6439	08-Nov-13	11082013-001.SSF	482224.3199	21616
722166.516	4294312.467	7159	08-Nov-13	11082013-001.SSF	482225.08	21617
722166.084	4294312.097	7610	08-Nov-13	11082013-001.SSF	482226.224	21618
722165.715	4294312.014	8742	08-Nov-13	11082013-001.SSF	482227.097	21619
722165.162	4294311.864	8845	08-Nov-13	11082013-001.SSF	482228.201	21620
722164.727	4294311.732	8241	08-Nov-13	11082013-001.SSF	482229.1071	21621
722164.292	4294311.755	6410	08-Nov-13	11082013-001.SSF	482230.156	21622
722163.98	4294311.694	6078	08-Nov-13	11082013-001.SSF	482231.106	21623
722163.53	4294311.571	6289	08-Nov-13	11082013-001.SSF	482232.1379	21624
722163.146	4294311.403	5553	08-Nov-13	11082013-001.SSF	482233.004	21625

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722162.295	4294311.258	6020	08-Nov-13	11082013-001.SSF	482235.126	21627
722161.775	4294311.068	5756	08-Nov-13	11082013-001.SSF	482236.178	21628
722161.369	4294310.922	5638	08-Nov-13	11082013-001.SSF	482237.052	21629
722160.868	4294310.885	5721	08-Nov-13	11082013-001.SSF	482238.177	21630
722160.517	4294310.807	5633	08-Nov-13	11082013-001.SSF	482239.015	21631
722160.179	4294310.724	6146	08-Nov-13	11082013-001.SSF	482240.163	21632
722159.942	4294310.59	6606	08-Nov-13	11082013-001.SSF	482241.101	21633
722159.542	4294310.522	6331	08-Nov-13	11082013-001.SSF	482242.249	21634
722159.235	4294310.474	6502	08-Nov-13	11082013-001.SSF	482243.104	21635
722158.822	4294310.411	6158	08-Nov-13	11082013-001.SSF	482244.308	21636
722158.517	4294310.35	5804	08-Nov-13	11082013-001.SSF	482245.077	21637
722158.1	4294310.308	5920	08-Nov-13	11082013-001.SSF	482246.24	21638
722157.874	4294310.317	5790	08-Nov-13	11082013-001.SSF	482247.092	21639
722157.711	4294310.166	5996	08-Nov-13	11082013-001.SSF	482248.166	21640
722157.54	4294310.035	6343	08-Nov-13	11082013-001.SSF	482249.1	21641
722157.255	4294309.732	7646	08-Nov-13	11082013-001.SSF	482250.156	21642
722156.871	4294309.529	7131	08-Nov-13	11082013-001.SSF	482251.0179	21643
722156.501	4294309.253	7422	08-Nov-13	11082013-001.SSF	482252.079	21644
722156.138	4294309.129	7165	08-Nov-13	11082013-001.SSF	482253.017	21645
722155.591	4294308.777	6201	08-Nov-13	11082013-001.SSF	482254.225	21646
722155.083	4294308.508	6460	08-Nov-13	11082013-001.SSF	482255.076	21647
722154.624	4294308.172	6267	08-Nov-13	11082013-001.SSF	482256.168	21648
722154.349	4294308.063	7957	08-Nov-13	11082013-001.SSF	482257.0699	21649
722153.97	4294308.004	7929	08-Nov-13	11082013-001.SSF	482258.2889	21650
722153.736	4294307.899	8612	08-Nov-13	11082013-001.SSF	482259.0699	21651
722153.164	4294307.83	8873	08-Nov-13	11082013-001.SSF	482260.1541	21652
722152.539	4294307.775	8968	08-Nov-13	11082013-001.SSF	482261.2371	21653
722152.027	4294307.577	8992	08-Nov-13	11082013-001.SSF	482262.2581	21654
722151.599	4294307.52	9088	08-Nov-13	11082013-001.SSF	482263.092	21655
722150.824	4294307.607	8242	08-Nov-13	11082013-001.SSF	482264.2679	21656
722150.284	4294307.592	8600	08-Nov-13	11082013-001.SSF	482265.0909	21657
722149.629	4294307.367	9170	08-Nov-13	11082013-001.SSF	482266.215	21658
722149.31	4294307.192	9522	08-Nov-13	11082013-001.SSF	482267.095	21659
722148.898	4294307.163	9820	08-Nov-13	11082013-001.SSF	482268.261	21660
722148.623	4294307.15	10045	08-Nov-13	11082013-001.SSF	482269.13	21661
722148.257	4294307.093	9021	08-Nov-13	11082013-001.SSF	482270.261	21662
722147.998	4294307.027	8885	08-Nov-13	11082013-001.SSF	482271.125	21663
722147.642	4294306.899	8791	08-Nov-13	11082013-001.SSF	482272.116	21664
722147.288	4294306.685	8707	08-Nov-13	11082013-001.SSF	482273.0601	21665
722146.869	4294306.477	8687	08-Nov-13	11082013-001.SSF	482274.127	21666
722146.596	4294306.31	9611	08-Nov-13	11082013-001.SSF	482275.134	21667
722146.339	4294306.167	9783	08-Nov-13	11082013-001.SSF	482276.14	21668
722146.172	4294305.954	9105	08-Nov-13	11082013-001.SSF	482277	21669
722145.812	4294305.762	8666	08-Nov-13	11082013-001.SSF	482278.095	21670
722145.66	4294305.524	8826	08-Nov-13	11082013-001.SSF	482279.053	21671
722145.329	4294305.245	9076	08-Nov-13	11082013-001.SSF	482280.278	21672

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722144.533	4294304.711	7984	08-Nov-13	11082013-001.SSF	482282.074	21674
722144.192	4294304.396	8896	08-Nov-13	11082013-001.SSF	482283.1121	21675
722143.808	4294304.167	8614	08-Nov-13	11082013-001.SSF	482284.095	21676
722143.409	4294303.938	8603	08-Nov-13	11082013-001.SSF	482285.078	21677
722143.045	4294303.749	7791	08-Nov-13	11082013-001.SSF	482286.123	21678
722142.647	4294303.651	8937	08-Nov-13	11082013-001.SSF	482287.087	21679
722142.227	4294303.388	6974	08-Nov-13	11082013-001.SSF	482288.274	21680
722141.911	4294303.196	7383	08-Nov-13	11082013-001.SSF	482289.131	21681
722141.703	4294302.966	6615	08-Nov-13	11082013-001.SSF	482290.08	21682
722141.451	4294302.893	7533	08-Nov-13	11082013-001.SSF	482291.0341	21683
722141.233	4294302.663	8003	08-Nov-13	11082013-001.SSF	482292.097	21684
722140.981	4294302.517	7641	08-Nov-13	11082013-001.SSF	482293.064	21685
722140.652	4294302.291	7130	08-Nov-13	11082013-001.SSF	482294.257	21686
722140.356	4294302.187	6612	08-Nov-13	11082013-001.SSF	482295.025	21687
722140.019	4294301.891	7113	08-Nov-13	11082013-001.SSF	482296.2321	21688
722139.822	4294301.709	6968	08-Nov-13	11082013-001.SSF	482296.988	21689
722139.366	4294301.412	7472	08-Nov-13	11082013-001.SSF	482298.264	21690
722139.034	4294301.323	6698	08-Nov-13	11082013-001.SSF	482298.991	21691
722138.363	4294300.93	7164	08-Nov-13	11082013-001.SSF	482300.314	21692
722138.017	4294300.717	6381	08-Nov-13	11082013-001.SSF	482301.054	21693
722137.762	4294300.449	7145	08-Nov-13	11082013-001.SSF	482302.098	21694
722137.358	4294300.188	6856	08-Nov-13	11082013-001.SSF	482303.14	21695
722136.737	4294299.738	6334	08-Nov-13	11082013-001.SSF	482304.312	21696
722136.314	4294299.504	5723	08-Nov-13	11082013-001.SSF	482305.054	21697
722135.666	4294299.162	6339	08-Nov-13	11082013-001.SSF	482306.229	21698
722135.201	4294299.006	6325	08-Nov-13	11082013-001.SSF	482306.978	21699
722134.537	4294298.721	5931	08-Nov-13	11082013-001.SSF	482308.202	21700
722134.12	4294298.582	6403	08-Nov-13	11082013-001.SSF	482309.0551	21701
722133.739	4294298.286	6881	08-Nov-13	11082013-001.SSF	482310.204	21702
722133.44	4294298.062	6670	08-Nov-13	11082013-001.SSF	482311.063	21703
722132.956	4294297.76	6407	08-Nov-13	11082013-001.SSF	482312.231	21704
722132.618	4294297.564	6791	08-Nov-13	11082013-001.SSF	482313.0811	21705
722132.295	4294297.338	7638	08-Nov-13	11082013-001.SSF	482314.179	21706
722132.009	4294297.2	5479	08-Nov-13	11082013-001.SSF	482314.998	21707
722131.582	4294296.95	6157	08-Nov-13	11082013-001.SSF	482316.264	21708
722131.277	4294296.862	5619	08-Nov-13	11082013-001.SSF	482317.087	21709
722130.812	4294296.537	6318	08-Nov-13	11082013-001.SSF	482318.1801	21710
722130.327	4294296.177	6289	08-Nov-13	11082013-001.SSF	482319.129	21711
722129.833	4294295.732	6342	08-Nov-13	11082013-001.SSF	482320.2939	21712
722129.576	4294295.59	7105	08-Nov-13	11082013-001.SSF	482320.99	21713
722129.195	4294295.342	6636	08-Nov-13	11082013-001.SSF	482322.248	21714
722128.898	4294295.169	6759	08-Nov-13	11082013-001.SSF	482323.12	21715
722128.509	4294294.882	6729	08-Nov-13	11082013-001.SSF	482324.288	21716
722128.236	4294294.681	6482	08-Nov-13	11082013-001.SSF	482325.137	21717
722127.945	4294294.437	7320	08-Nov-13	11082013-001.SSF	482326.254	21718
722127.601	4294294.354	7110	08-Nov-13	11082013-001.SSF	482327.1591	21719

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722127.054	4294294.121	7027	08-Nov-13	11082013-001.SSF	482328.277	21720
722126.734	4294293.949	6010	08-Nov-13	11082013-001.SSF	482329.014	21721
722126.548	4294293.876	5840	08-Nov-13	11082013-001.SSF	482330.151	21722
722126.484	4294293.88	6705	08-Nov-13	11082013-001.SSF	482331.004	21723
722126.373	4294293.739	6326	08-Nov-13	11082013-001.SSF	482332.031	21724
722126.266	4294293.452	6381	08-Nov-13	11082013-001.SSF	482332.9709	21725
722126.348	4294293.312	6575	08-Nov-13	11082013-001.SSF	482334.082	21726
722126.15	4294293.542	6983	08-Nov-13	11082013-001.SSF	482334.9771	21727
722126.208	4294294.017	7476	08-Nov-13	11082013-001.SSF	482336.147	21728
722126.237	4294294.024	7179	08-Nov-13	11082013-001.SSF	482337.001	21729
722126.315	4294293.952	7104	08-Nov-13	11082013-001.SSF	482338.108	21730
722126.38	4294294.071	7416	08-Nov-13	11082013-001.SSF	482338.996	21731
722125.952	4294294.261	7284	08-Nov-13	11082013-001.SSF	482340.184	21732
722125.416	4294294.344	7581	08-Nov-13	11082013-001.SSF	482341.088	21733
722125.154	4294294.417	7085	08-Nov-13	11082013-001.SSF	482342.1591	21734
722125.264	4294294.556	6271	08-Nov-13	11082013-001.SSF	482343.058	21735
722125.449	4294295.075	5711	08-Nov-13	11082013-001.SSF	482344.198	21736
722125.607	4294295.563	6647	08-Nov-13	11082013-001.SSF	482346.108	21738
722125.662	4294295.827	5921	08-Nov-13	11082013-001.SSF	482347.0439	21739
722125.754	4294295.789	6218	08-Nov-13	11082013-001.SSF	482348.061	21740
722125.543	4294295.516	7254	08-Nov-13	11082013-001.SSF	482349.0129	21741
722125.333	4294295.58	6973	08-Nov-13	11082013-001.SSF	482350.031	21742
722125.384	4294295.48	6603	08-Nov-13	11082013-001.SSF	482351.049	21743
722125.694	4294295.023	7200	08-Nov-13	11082013-001.SSF	482352.093	21744
722125.909	4294294.609	7170	08-Nov-13	11082013-001.SSF	482353.037	21745
722126.012	4294294.367	7102	08-Nov-13	11082013-001.SSF	482354.15	21746
722125.978	4294294.387	7205	08-Nov-13	11082013-001.SSF	482355.0861	21747
722125.949	4294294.441	5987	08-Nov-13	11082013-001.SSF	482356.0389	21748
722125.945	4294294.408	6340	08-Nov-13	11082013-001.SSF	482357.053	21749
722125.962	4294294.349	6775	08-Nov-13	11082013-001.SSF	482358.078	21750
722125.992	4294294.271	6823	08-Nov-13	11082013-001.SSF	482359.0229	21751
722126.064	4294294.081	5966	08-Nov-13	11082013-001.SSF	482360.0699	21752
722126.046	4294293.976	5613	08-Nov-13	11082013-001.SSF	482361.045	21753
722125.885	4294293.997	6037	08-Nov-13	11082013-001.SSF	482362.014	21754
722125.819	4294293.921	6164	08-Nov-13	11082013-001.SSF	482363.0909	21755
722125.917	4294293.814	6611	08-Nov-13	11082013-001.SSF	482364.051	21756
722125.85	4294293.993	7262	08-Nov-13	11082013-001.SSF	482365.001	21757
722126.057	4294294.127	6975	08-Nov-13	11082013-001.SSF	482365.978	21758
722126.252	4294294.072	6005	08-Nov-13	11082013-001.SSF	482366.974	21759
722126.19	4294294.128	6302	08-Nov-13	11082013-001.SSF	482368.016	21760
722125.975	4294294.309	6855	08-Nov-13	11082013-001.SSF	482368.99	21761
722125.864	4294294.432	5823	08-Nov-13	11082013-001.SSF	482370.073	21762
722125.861	4294294.444	6078	08-Nov-13	11082013-001.SSF	482371.005	21763
722125.842	4294294.447	6243	08-Nov-13	11082013-001.SSF	482372.121	21764
722126.005	4294294.567	5880	08-Nov-13	11082013-001.SSF	482373.037	21765
722126.159	4294294.603	6480	08-Nov-13	11082013-001.SSF	482374.069	21766
722126.004	4294294.491	6210	08-Nov-13	11082013-001.SSF	482375.0341	21767

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722125.93	4294294.319	5659	08-Nov-13	11082013-001.SSF	482377.0179	21769
722125.878	4294294.376	5936	08-Nov-13	11082013-001.SSF	482378.05	21770
722125.91	4294294.34	6246	08-Nov-13	11082013-001.SSF	482378.9969	21771
722126.097	4294294.243	6391	08-Nov-13	11082013-001.SSF	482380.198	21772
722126.192	4294294.174	6457	08-Nov-13	11082013-001.SSF	482381.054	21773
722126.166	4294294.105	6744	08-Nov-13	11082013-001.SSF	482382.09	21774
722126.173	4294294.091	6456	08-Nov-13	11082013-001.SSF	482383.032	21775
722126.32	4294294.087	5754	08-Nov-13	11082013-001.SSF	482384.051	21776
722126.431	4294293.961	6086	08-Nov-13	11082013-001.SSF	482385.009	21777
722126.52	4294294.067	6561	08-Nov-13	11082013-001.SSF	482386.11	21778
722126.551	4294294.175	6980	08-Nov-13	11082013-001.SSF	482387.0861	21779
722126.557	4294294.121	6305	08-Nov-13	11082013-001.SSF	482388.0551	21780
722126.566	4294294.074	5664	08-Nov-13	11082013-001.SSF	482389.005	21781
722126.504	4294294.102	5979	08-Nov-13	11082013-001.SSF	482390.067	21782
722126.549	4294294.066	6010	08-Nov-13	11082013-001.SSF	482391.012	21783
722126.508	4294294.148	7339	08-Nov-13	11082013-001.SSF	482392.099	21784
722126.524	4294294.161	7204	08-Nov-13	11082013-001.SSF	482393.004	21785
722126.502	4294294.088	6391	08-Nov-13	11082013-001.SSF	482394.106	21786
722126.494	4294293.934	6727	08-Nov-13	11082013-001.SSF	482395.0129	21787
722126.923	4294294.173	5793	08-Nov-13	11082013-001.SSF	482395.993	21788
722126.724	4294294.206	6266	08-Nov-13	11082013-001.SSF	482396.9919	21789
722126.386	4294294.102	7056	08-Nov-13	11082013-001.SSF	482398.125	21790
722126.362	4294293.827	6624	08-Nov-13	11082013-001.SSF	482398.959	21791
722126.065	4294293.428	6426	08-Nov-13	11082013-001.SSF	482400.0389	21792
722125.478	4294293.157	6279	08-Nov-13	11082013-001.SSF	482401.043	21793
722125.083	4294293.092	6850	08-Nov-13	11082013-001.SSF	482402.0649	21794
722124.957	4294293.011	6992	08-Nov-13	11082013-001.SSF	482403.0699	21795
722124.69	4294292.875	6398	08-Nov-13	11082013-001.SSF	482404.105	21796
722124.254	4294292.635	7149	08-Nov-13	11082013-001.SSF	482405.024	21797
722123.787	4294292.824	6047	08-Nov-13	11082013-001.SSF	482406.0811	21798
722123.648	4294293.229	6101	08-Nov-13	11082013-001.SSF	482407.025	21799
722123.543	4294293.543	5843	08-Nov-13	11082013-001.SSF	482408.064	21800
722123.515	4294293.831	6009	08-Nov-13	11082013-001.SSF	482409.017	21801
722123.078	4294293.969	6123	08-Nov-13	11082013-001.SSF	482410.067	21802
722122.358	4294294.072	6960	08-Nov-13	11082013-001.SSF	482411.0081	21803
722121.966	4294293.839	6270	08-Nov-13	11082013-001.SSF	482412.046	21804
722121.777	4294293.366	6697	08-Nov-13	11082013-001.SSF	482413.017	21805
722121.542	4294292.954	6534	08-Nov-13	11082013-001.SSF	482414.04	21806
722121.537	4294292.378	7003	08-Nov-13	11082013-001.SSF	482415.145	21807
722121.454	4294291.922	7481	08-Nov-13	11082013-001.SSF	482416.141	21808
722121.409	4294291.498	7600	08-Nov-13	11082013-001.SSF	482417.001	21809
722121.4	4294291.286	7270	08-Nov-13	11082013-001.SSF	482418.101	21810
722121.271	4294291.661	7787	08-Nov-13	11082013-001.SSF	482419.132	21811
722121.243	4294292.078	7136	08-Nov-13	11082013-001.SSF	482420.071	21812
722121.301	4294292.361	7154	08-Nov-13	11082013-001.SSF	482420.842	21813
722121.32	4294292.859	6858	08-Nov-13	11082013-001.SSF	482422.063	21814

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722121.24	4294293.573	6601	08-Nov-13	11082013-001.SSF	482423.9871	21816
722120.866	4294294.217	6300	08-Nov-13	11082013-001.SSF	482424.842	21817
722120.694	4294295.076	6285	08-Nov-13	11082013-001.SSF	482426.171	21818
722120.656	4294295.529	6551	08-Nov-13	11082013-001.SSF	482426.986	21819
722120.724	4294296.172	6378	08-Nov-13	11082013-001.SSF	482428.113	21820
722120.61	4294296.667	6154	08-Nov-13	11082013-001.SSF	482428.986	21821
722120.507	4294297.332	6428	08-Nov-13	11082013-001.SSF	482430.075	21822
722120.328	4294297.711	6947	08-Nov-13	11082013-001.SSF	482430.936	21823
722120.236	4294298.124	6986	08-Nov-13	11082013-001.SSF	482432.073	21824
722120.123	4294298.565	6186	08-Nov-13	11082013-001.SSF	482432.946	21825
722120.249	4294298.863	7126	08-Nov-13	11082013-001.SSF	482433.986	21826
722120.602	4294299.127	5741	08-Nov-13	11082013-001.SSF	482434.941	21827
722121.099	4294299.275	6244	08-Nov-13	11082013-001.SSF	482436.051	21828
722121.632	4294299.411	6661	08-Nov-13	11082013-001.SSF	482437.02	21829
722122.088	4294299.583	6855	08-Nov-13	11082013-001.SSF	482438.1801	21830
722122.311	4294299.787	6753	08-Nov-13	11082013-001.SSF	482438.9611	21831
722122.973	4294299.863	7058	08-Nov-13	11082013-001.SSF	482440.149	21832
722123.547	4294299.926	7014	08-Nov-13	11082013-001.SSF	482441.0341	21833
722123.808	4294300.103	7003	08-Nov-13	11082013-001.SSF	482442.074	21834
722123.766	4294300.197	6851	08-Nov-13	11082013-001.SSF	482442.9091	21835
722123.7	4294300.283	6752	08-Nov-13	11082013-001.SSF	482444.016	21836
722123.621	4294300.184	6818	08-Nov-13	11082013-001.SSF	482444.99	21837
722123.922	4294299.692	6474	08-Nov-13	11082013-001.SSF	482446.064	21838
722123.906	4294299.457	7048	08-Nov-13	11082013-001.SSF	482447.062	21839
722123.631	4294299.323	6832	08-Nov-13	11082013-001.SSF	482448.059	21840
722123.33	4294299.076	6208	08-Nov-13	11082013-001.SSF	482449.137	21841
722122.989	4294298.86	6198	08-Nov-13	11082013-001.SSF	482450.077	21842
722122.523	4294298.556	5869	08-Nov-13	11082013-001.SSF	482451.083	21843
722122.095	4294298.183	5861	08-Nov-13	11082013-001.SSF	482452.08	21844
722121.741	4294297.916	6652	08-Nov-13	11082013-001.SSF	482452.981	21845
722121.397	4294297.769	5734	08-Nov-13	11082013-001.SSF	482454.089	21846
722121.263	4294297.839	6320	08-Nov-13	11082013-001.SSF	482454.9821	21847
722121.429	4294297.552	6680	08-Nov-13	11082013-001.SSF	482456.0699	21848
722121.73	4294297.391	6410	08-Nov-13	11082013-001.SSF	482457.037	21849
722122.236	4294297.49	6372	08-Nov-13	11082013-001.SSF	482458.1591	21850
722122.535	4294297.55	6034	08-Nov-13	11082013-001.SSF	482459.038	21851
722122.86	4294297.667	6462	08-Nov-13	11082013-001.SSF	482460.093	21852
722123.341	4294297.787	5963	08-Nov-13	11082013-001.SSF	482460.994	21853
722123.928	4294297.996	7081	08-Nov-13	11082013-001.SSF	482462.087	21854
722124.393	4294298.152	5580	08-Nov-13	11082013-001.SSF	482462.995	21855
722124.857	4294298.386	6176	08-Nov-13	11082013-001.SSF	482464.082	21856
722125.222	4294298.601	6554	08-Nov-13	11082013-001.SSF	482465.005	21857
722125.53	4294298.773	6357	08-Nov-13	11082013-001.SSF	482466.0291	21858
722125.77	4294298.945	6419	08-Nov-13	11082013-001.SSF	482466.866	21859
722126.321	4294299.066	6825	08-Nov-13	11082013-001.SSF	482468.147	21860
722126.88	4294298.977	6356	08-Nov-13	11082013-001.SSF	482468.864	21861

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722128.025	4294298.864	5710	08-Nov-13	11082013-001.SSF	482471.05	21863
722127.415	4294298.597	6407	08-Nov-13	11082013-001.SSF	482472.0959	21864
722127.133	4294298.367	6671	08-Nov-13	11082013-001.SSF	482472.981	21865
722126.802	4294298.256	7638	08-Nov-13	11082013-001.SSF	482474.04	21866
722126.272	4294297.925	6259	08-Nov-13	11082013-001.SSF	482475.024	21867
722125.764	4294297.431	6127	08-Nov-13	11082013-001.SSF	482476.106	21868
722125.453	4294297.197	7111	08-Nov-13	11082013-001.SSF	482476.9821	21869
722125.099	4294296.941	6997	08-Nov-13	11082013-001.SSF	482478.001	21870
722124.63	4294296.607	6789	08-Nov-13	11082013-001.SSF	482478.933	21871
722124.02	4294296.123	6557	08-Nov-13	11082013-001.SSF	482480.168	21872
722123.697	4294295.825	6398	08-Nov-13	11082013-001.SSF	482480.899	21873
722123.196	4294295.525	6709	08-Nov-13	11082013-001.SSF	482482.024	21874
722123.044	4294295.325	6027	08-Nov-13	11082013-001.SSF	482482.99	21875
722122.954	4294294.78	7450	08-Nov-13	11082013-001.SSF	482484.103	21876
722123.084	4294294.849	6902	08-Nov-13	11082013-001.SSF	482485.005	21877
722124.017	4294295.169	5625	08-Nov-13	11082013-001.SSF	482486.04	21878
722124.62	4294295.354	6277	08-Nov-13	11082013-001.SSF	482486.868	21879
722125.116	4294295.46	6088	08-Nov-13	11082013-001.SSF	482488.011	21880
722125.381	4294295.611	6142	08-Nov-13	11082013-001.SSF	482488.963	21881
722125.66	4294295.786	6455	08-Nov-13	11082013-001.SSF	482490.088	21882
722125.925	4294295.93	5933	08-Nov-13	11082013-001.SSF	482490.9919	21883
722126.27	4294296.074	6065	08-Nov-13	11082013-001.SSF	482492.057	21884
722126.631	4294296.292	6406	08-Nov-13	11082013-001.SSF	482493.021	21885
722127.142	4294296.415	6011	08-Nov-13	11082013-001.SSF	482494.111	21886
722127.595	4294296.584	6244	08-Nov-13	11082013-001.SSF	482495.007	21887
722128.118	4294296.906	5941	08-Nov-13	11082013-001.SSF	482496.0861	21888
722128.576	4294297.108	6082	08-Nov-13	11082013-001.SSF	482496.984	21889
722129.114	4294297.238	6016	08-Nov-13	11082013-001.SSF	482498.042	21890
722129.609	4294297.453	6066	08-Nov-13	11082013-001.SSF	482498.943	21891
722130.185	4294297.848	6946	08-Nov-13	11082013-001.SSF	482499.993	21892
722130.86	4294298.218	7526	08-Nov-13	11082013-001.SSF	482500.9561	21893
722131.489	4294298.734	6441	08-Nov-13	11082013-001.SSF	482502.0389	21894
722132.069	4294299.075	6590	08-Nov-13	11082013-001.SSF	482503.005	21895
722132.655	4294299.395	6747	08-Nov-13	11082013-001.SSF	482504.0551	21896
722133.082	4294299.657	6697	08-Nov-13	11082013-001.SSF	482504.955	21897
722133.519	4294299.824	6564	08-Nov-13	11082013-001.SSF	482506.212	21898
722133.866	4294299.868	6471	08-Nov-13	11082013-001.SSF	482506.986	21899
722134.445	4294300.069	6327	08-Nov-13	11082013-001.SSF	482508.127	21900
722134.775	4294300.265	7012	08-Nov-13	11082013-001.SSF	482508.947	21901
722135.136	4294300.562	6733	08-Nov-13	11082013-001.SSF	482510.135	21902
722135.425	4294300.747	6123	08-Nov-13	11082013-001.SSF	482510.999	21903
722135.754	4294300.889	6630	08-Nov-13	11082013-001.SSF	482512.006	21904
722136.105	4294301.001	7147	08-Nov-13	11082013-001.SSF	482512.985	21905
722136.464	4294301.083	6167	08-Nov-13	11082013-001.SSF	482514.006	21906
722136.825	4294301.213	5843	08-Nov-13	11082013-001.SSF	482514.978	21907
722137.225	4294301.437	7122	08-Nov-13	11082013-001.SSF	482516.118	21908

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722137.804	4294301.938	6910	08-Nov-13	11082013-001.SSF	482518.05	21910
722138.063	4294302.135	6647	08-Nov-13	11082013-001.SSF	482519.001	21911
722138.352	4294302.29	6287	08-Nov-13	11082013-001.SSF	482520.087	21912
722138.524	4294302.464	7211	08-Nov-13	11082013-001.SSF	482520.896	21913
722138.838	4294302.662	7623	08-Nov-13	11082013-001.SSF	482522.115	21914
722139.015	4294302.833	7695	08-Nov-13	11082013-001.SSF	482522.9919	21915
722139.314	4294302.962	7443	08-Nov-13	11082013-001.SSF	482524.113	21916
722139.588	4294303.169	7261	08-Nov-13	11082013-001.SSF	482524.993	21917
722140.004	4294303.413	7305	08-Nov-13	11082013-001.SSF	482526.02	21918
722140.399	4294303.757	7646	08-Nov-13	11082013-001.SSF	482526.9771	21919
722140.918	4294304.006	8331	08-Nov-13	11082013-001.SSF	482528.071	21920
722141.391	4294304.269	8443	08-Nov-13	11082013-001.SSF	482528.9821	21921
722141.906	4294304.542	9160	08-Nov-13	11082013-001.SSF	482530.082	21922
722142.198	4294304.748	7690	08-Nov-13	11082013-001.SSF	482530.991	21923
722142.617	4294304.914	7592	08-Nov-13	11082013-001.SSF	482532.094	21924
722142.887	4294305.077	8108	08-Nov-13	11082013-001.SSF	482532.996	21925
722143.236	4294305.201	8897	08-Nov-13	11082013-001.SSF	482534.153	21926
722143.578	4294305.319	8824	08-Nov-13	11082013-001.SSF	482534.98	21927
722144.025	4294305.582	8566	08-Nov-13	11082013-001.SSF	482536.062	21928
722144.447	4294305.966	8951	08-Nov-13	11082013-001.SSF	482537.021	21929
722144.911	4294306.319	9048	08-Nov-13	11082013-001.SSF	482538.02	21930
722145.384	4294306.555	8112	08-Nov-13	11082013-001.SSF	482538.989	21931
722145.854	4294307.074	8718	08-Nov-13	11082013-001.SSF	482540.14	21932
722146.449	4294307.351	8449	08-Nov-13	11082013-001.SSF	482541.037	21933
722147.213	4294307.65	8712	08-Nov-13	11082013-001.SSF	482542.057	21934
722147.811	4294307.884	9348	08-Nov-13	11082013-001.SSF	482543.012	21935
722148.345	4294308.227	9807	08-Nov-13	11082013-001.SSF	482544.045	21936
722148.789	4294308.531	9801	08-Nov-13	11082013-001.SSF	482545.016	21937
722149.161	4294308.827	9530	08-Nov-13	11082013-001.SSF	482546.074	21938
722149.503	4294308.992	8772	08-Nov-13	11082013-001.SSF	482546.984	21939
722150.081	4294309.313	9393	08-Nov-13	11082013-001.SSF	482548.075	21940
722150.387	4294309.592	9188	08-Nov-13	11082013-001.SSF	482548.9871	21941
722150.459	4294309.772	9377	08-Nov-13	11082013-001.SSF	482550.085	21942
722150.31	4294310.005	9394	08-Nov-13	11082013-001.SSF	482551.007	21943
722150.046	4294310.371	9248	08-Nov-13	11082013-001.SSF	482552.041	21944
722149.666	4294310.614	9332	08-Nov-13	11082013-001.SSF	482552.8621	21945
722149.337	4294311.039	9833	08-Nov-13	11082013-001.SSF	482554.0959	21946
722149.083	4294311.373	9658	08-Nov-13	11082013-001.SSF	482555.088	21947
722148.953	4294311.908	9434	08-Nov-13	11082013-001.SSF	482555.978	21948
722148.838	4294312.345	9078	08-Nov-13	11082013-001.SSF	482556.928	21949
722148.602	4294312.535	9349	08-Nov-13	11082013-001.SSF	482558.168	21950
722148.559	4294312.642	9987	08-Nov-13	11082013-001.SSF	482558.9919	21951
722148.372	4294312.727	8167	08-Nov-13	11082013-001.SSF	482560.093	21952
722148.467	4294312.81	7681	08-Nov-13	11082013-001.SSF	482561.027	21953
722148.651	4294312.922	7650	08-Nov-13	11082013-001.SSF	482562.1429	21954
722148.759	4294313.108	7702	08-Nov-13	11082013-001.SSF	482562.9919	21955

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722148.586	4294313.309	7906	08-Nov-13	11082013-001.SSF	482564.866	21957
722148.565	4294313.313	8126	08-Nov-13	11082013-001.SSF	482565.975	21958
722148.395	4294313.07	7881	08-Nov-13	11082013-001.SSF	482566.793	21959
722148.303	4294312.716	8360	08-Nov-13	11082013-001.SSF	482567.969	21960
722148.486	4294312.266	8360	08-Nov-13	11082013-001.SSF	482568.917	21961
722148.929	4294311.512	9620	08-Nov-13	11082013-001.SSF	482570.1379	21962
722149.148	4294311.016	9095	08-Nov-13	11082013-001.SSF	482570.984	21963
722149.326	4294310.649	8243	08-Nov-13	11082013-001.SSF	482572.135	21964
722149.541	4294310.361	8121	08-Nov-13	11082013-001.SSF	482572.928	21965
722149.754	4294310.04	8780	08-Nov-13	11082013-001.SSF	482573.974	21966
722149.913	4294309.917	9515	08-Nov-13	11082013-001.SSF	482574.925	21967
722150.21	4294309.794	9758	08-Nov-13	11082013-001.SSF	482576.139	21968
722150.459	4294309.831	9729	08-Nov-13	11082013-001.SSF	482576.899	21969
722150.938	4294309.962	8642	08-Nov-13	11082013-001.SSF	482578	21970
722151.305	4294310.214	9301	08-Nov-13	11082013-001.SSF	482578.874	21971
722152.013	4294310.648	8377	08-Nov-13	11082013-001.SSF	482580.089	21972
722152.566	4294311.054	7374	08-Nov-13	11082013-001.SSF	482580.934	21973
722153.268	4294311.273	6733	08-Nov-13	11082013-001.SSF	482582.147	21974
722153.589	4294311.344	7203	08-Nov-13	11082013-001.SSF	482582.937	21975
722154.191	4294311.64	6330	08-Nov-13	11082013-001.SSF	482584.033	21976
722154.678	4294311.953	5883	08-Nov-13	11082013-001.SSF	482585.012	21977
722155.076	4294312.025	6197	08-Nov-13	11082013-001.SSF	482585.923	21978
722155.465	4294312.187	6589	08-Nov-13	11082013-001.SSF	482586.901	21979
722155.812	4294312.35	6537	08-Nov-13	11082013-001.SSF	482587.9189	21980
722155.979	4294312.423	6974	08-Nov-13	11082013-001.SSF	482588.901	21981
722156.293	4294312.573	5643	08-Nov-13	11082013-001.SSF	482590.15	21982
722156.604	4294312.704	6354	08-Nov-13	11082013-001.SSF	482590.921	21983
722157.164	4294312.859	5878	08-Nov-13	11082013-001.SSF	482592.063	21984
722157.564	4294312.948	6186	08-Nov-13	11082013-001.SSF	482592.97	21985
722158.119	4294312.977	6946	08-Nov-13	11082013-001.SSF	482594.079	21986
722158.638	4294312.992	6506	08-Nov-13	11082013-001.SSF	482595	21987
722158.975	4294313.007	6126	08-Nov-13	11082013-001.SSF	482595.965	21988
722159.238	4294313.22	6241	08-Nov-13	11082013-001.SSF	482596.837	21989
722159.648	4294313.189	5640	08-Nov-13	11082013-001.SSF	482598.011	21990
722160.075	4294313.049	6022	08-Nov-13	11082013-001.SSF	482598.946	21991
722160.46	4294312.933	6623	08-Nov-13	11082013-001.SSF	482599.9969	21992
722160.831	4294312.98	7026	08-Nov-13	11082013-001.SSF	482600.816	21993
722161.536	4294312.908	7486	08-Nov-13	11082013-001.SSF	482602.0229	21994
722161.958	4294312.845	7571	08-Nov-13	11082013-001.SSF	482602.868	21995
722162.428	4294312.753	8073	08-Nov-13	11082013-001.SSF	482604.032	21996
722162.931	4294312.841	6578	08-Nov-13	11082013-001.SSF	482604.931	21997
722163.561	4294312.945	8274	08-Nov-13	11082013-001.SSF	482605.981	21998
722163.87	4294312.953	8998	08-Nov-13	11082013-001.SSF	482606.871	21999
722164.143	4294312.87	8879	08-Nov-13	11082013-001.SSF	482608.011	22000
722164.356	4294312.953	8550	08-Nov-13	11082013-001.SSF	482608.875	22001
722164.783	4294313.471	7657	08-Nov-13	11082013-001.SSF	482610.1021	22002

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722165.335	4294313.879	7854	08-Nov-13	11082013-001.SSF	482611.072	22003
722165.693	4294314.294	7393	08-Nov-13	11082013-001.SSF	482611.98	22004
722165.783	4294314.353	7788	08-Nov-13	11082013-001.SSF	482612.864	22005
722165.897	4294314.213	7347	08-Nov-13	11082013-001.SSF	482613.978	22006
722166.222	4294314.221	6726	08-Nov-13	11082013-001.SSF	482614.842	22007
722166.82	4294314.592	6781	08-Nov-13	11082013-001.SSF	482615.976	22008
722167.326	4294314.659	6435	08-Nov-13	11082013-001.SSF	482616.939	22009
722167.658	4294314.772	5653	08-Nov-13	11082013-001.SSF	482617.968	22010
722167.936	4294315.308	5782	08-Nov-13	11082013-001.SSF	482618.938	22011
722168.175	4294315.949	6192	08-Nov-13	11082013-001.SSF	482619.887	22012
722168.648	4294316.42	6117	08-Nov-13	11082013-001.SSF	482620.918	22013
722169.056	4294317.162	7109	08-Nov-13	11082013-001.SSF	482622.274	22014
722169.252	4294317.494	7927	08-Nov-13	11082013-001.SSF	482622.924	22015
722169.448	4294318.066	9361	08-Nov-13	11082013-001.SSF	482624.027	22016
722169.618	4294318.358	8400	08-Nov-13	11082013-001.SSF	482624.843	22017
722169.875	4294318.871	8040	08-Nov-13	11082013-001.SSF	482626.049	22018
722170.204	4294319.106	6630	08-Nov-13	11082013-001.SSF	482626.817	22019
722170.403	4294319.286	7447	08-Nov-13	11082013-001.SSF	482627.897	22020
722170.514	4294319.55	7772	08-Nov-13	11082013-001.SSF	482628.8669	22021
722170.674	4294319.939	8513	08-Nov-13	11082013-001.SSF	482629.864	22022
722170.857	4294320.257	8698	08-Nov-13	11082013-001.SSF	482630.887	22023
722170.928	4294320.507	8834	08-Nov-13	11082013-001.SSF	482631.938	22024
722171.024	4294320.827	9228	08-Nov-13	11082013-001.SSF	482632.889	22025
722171.391	4294321.358	8067	08-Nov-13	11082013-001.SSF	482633.933	22026
722171.767	4294321.603	9036	08-Nov-13	11082013-001.SSF	482634.879	22027
722172.29	4294321.516	8289	08-Nov-13	11082013-001.SSF	482635.892	22028
722172.785	4294321.311	8132	08-Nov-13	11082013-001.SSF	482636.887	22029
722173.31	4294321.07	7733	08-Nov-13	11082013-001.SSF	482637.962	22030
722173.818	4294320.955	7183	08-Nov-13	11082013-001.SSF	482638.814	22031
722174.264	4294321.122	8306	08-Nov-13	11082013-001.SSF	482639.921	22032
722174.65	4294321.263	8046	08-Nov-13	11082013-001.SSF	482640.848	22033
722175.304	4294321.278	7231	08-Nov-13	11082013-001.SSF	482641.9301	22034
722175.865	4294321.147	7237	08-Nov-13	11082013-001.SSF	482642.827	22035
722176.482	4294321.075	7719	08-Nov-13	11082013-001.SSF	482643.943	22036
722176.967	4294320.985	7840	08-Nov-13	11082013-001.SSF	482644.848	22037
722177.667	4294320.919	8110	08-Nov-13	11082013-001.SSF	482645.892	22038
722178.548	4294320.857	8177	08-Nov-13	11082013-001.SSF	482646.8929	22039
722179.246	4294321.058	8764	08-Nov-13	11082013-001.SSF	482647.949	22040
722179.663	4294321.248	7801	08-Nov-13	11082013-001.SSF	482648.954	22041
722180.177	4294321.257	8550	08-Nov-13	11082013-001.SSF	482649.974	22042
722180.654	4294321.312	7777	08-Nov-13	11082013-001.SSF	482650.806	22043
722181.206	4294321.418	7914	08-Nov-13	11082013-001.SSF	482651.912	22044
722181.565	4294321.268	8278	08-Nov-13	11082013-001.SSF	482652.894	22045
722181.852	4294321.089	8639	08-Nov-13	11082013-001.SSF	482653.897	22046
722182.04	4294321.008	8070	08-Nov-13	11082013-001.SSF	482654.849	22047
722182.348	4294321	8107	08-Nov-13	11082013-001.SSF	482655.882	22048
722182.758	4294321.035	8206	08-Nov-13	11082013-001.SSF	482656.792	22049

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722183.101	4294321.235	9071	08-Nov-13	11082013-001.SSF	482657.938	22050
722183.127	4294321.486	7968	08-Nov-13	11082013-001.SSF	482658.7889	22051
722183.074	4294321.832	7752	08-Nov-13	11082013-001.SSF	482660.095	22052
722182.982	4294322.326	7248	08-Nov-13	11082013-001.SSF	482660.931	22053
722182.889	4294323.116	7092	08-Nov-13	11082013-001.SSF	482662.114	22054
722183.111	4294323.346	7173	08-Nov-13	11082013-001.SSF	482662.865	22055
722183.381	4294323.6	6743	08-Nov-13	11082013-001.SSF	482663.972	22056
722183.34	4294323.787	6935	08-Nov-13	11082013-001.SSF	482664.865	22057
722183.073	4294323.877	8094	08-Nov-13	11082013-001.SSF	482665.972	22058
722182.837	4294323.855	7513	08-Nov-13	11082013-001.SSF	482666.958	22059
722182.865	4294323.47	7158	08-Nov-13	11082013-001.SSF	482667.949	22060
722182.761	4294322.914	8359	08-Nov-13	11082013-001.SSF	482668.802	22061
722182.863	4294322.208	7039	08-Nov-13	11082013-001.SSF	482669.994	22062
722182.967	4294321.549	7760	08-Nov-13	11082013-001.SSF	482670.822	22063
722183.033	4294320.559	7700	08-Nov-13	11082013-001.SSF	482671.9	22064
722182.705	4294319.922	8075	08-Nov-13	11082013-001.SSF	482672.882	22065
722181.951	4294320.056	8648	08-Nov-13	11082013-001.SSF	482673.943	22066
722181.222	4294320.517	8042	08-Nov-13	11082013-001.SSF	482674.795	22067
722181.024	4294321.273	8070	08-Nov-13	11082013-001.SSF	482675.967	22068
722181.136	4294321.774	7987	08-Nov-13	11082013-001.SSF	482676.83	22069
722181.449	4294322.429	8087	08-Nov-13	11082013-001.SSF	482678.031	22070
722181.353	4294322.693	6791	08-Nov-13	11082013-001.SSF	482678.9139	22071
722181.222	4294323.132	8478	08-Nov-13	11082013-001.SSF	482679.908	22072
722181.144	4294323.041	7669	08-Nov-13	11082013-001.SSF	482680.856	22073
722180.896	4294322.295	7647	08-Nov-13	11082013-001.SSF	482681.98	22074
722180.817	4294321.765	7342	08-Nov-13	11082013-001.SSF	482682.859	22075
722180.885	4294321.23	7985	08-Nov-13	11082013-001.SSF	482684.019	22076
722181.311	4294320.852	8386	08-Nov-13	11082013-001.SSF	482684.884	22077
722182.003	4294320.434	7856	08-Nov-13	11082013-001.SSF	482685.958	22078
722182.492	4294320.098	8354	08-Nov-13	11082013-001.SSF	482686.834	22079
722183.154	4294319.751	7968	08-Nov-13	11082013-001.SSF	482687.98	22080
722183.799	4294319.41	7992	08-Nov-13	11082013-001.SSF	482688.947	22081
722184.387	4294319.17	8088	08-Nov-13	11082013-001.SSF	482689.998	22082
722184.804	4294319.083	9372	08-Nov-13	11082013-001.SSF	482690.826	22083
722185.424	4294319.14	9003	08-Nov-13	11082013-001.SSF	482691.969	22084
722185.973	4294319.088	8370	08-Nov-13	11082013-001.SSF	482692.924	22085
722186.572	4294319.1	7492	08-Nov-13	11082013-001.SSF	482693.969	22086
722187.019	4294319.046	7813	08-Nov-13	11082013-001.SSF	482694.772	22087
722188.208	4294318.936	8670	08-Nov-13	11082013-001.SSF	482696.828	22089
722189.47	4294319.357	8634	08-Nov-13	11082013-001.SSF	482698.976	22091
722189.994	4294319.659	7588	08-Nov-13	11082013-001.SSF	482700.02	22092
722190.271	4294319.969	7087	08-Nov-13	11082013-001.SSF	482700.837	22093
722190.653	4294320.245	7951	08-Nov-13	11082013-001.SSF	482701.934	22094
722191.066	4294320.481	8347	08-Nov-13	11082013-001.SSF	482702.938	22095
722191.435	4294320.797	5957	08-Nov-13	11082013-001.SSF	482704.04	22096
722191.865	4294320.897	6599	08-Nov-13	11082013-001.SSF	482704.7939	22097
722192.875	4294320.698	6929	08-Nov-13	11082013-001.SSF	482705.9871	22098

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722193.731	4294320.731	6502	08-Nov-13	11082013-001.SSF	482706.783	22099
722194.918	4294320.922	6218	08-Nov-13	11082013-001.SSF	482708.058	22100
722195.317	4294320.997	7284	08-Nov-13	11082013-001.SSF	482708.777	22101
722195.766	4294321.126	6381	08-Nov-13	11082013-001.SSF	482709.927	22102
722195.981	4294321.361	6215	08-Nov-13	11082013-001.SSF	482710.853	22103
722196.271	4294321.59	6410	08-Nov-13	11082013-001.SSF	482711.973	22104
722196.548	4294321.639	5832	08-Nov-13	11082013-001.SSF	482712.829	22105
722196.975	4294321.696	5877	08-Nov-13	11082013-001.SSF	482714.03	22106
722197.442	4294321.783	7019	08-Nov-13	11082013-001.SSF	482714.875	22107
722197.995	4294321.976	6674	08-Nov-13	11082013-001.SSF	482715.983	22108
722198.622	4294322.137	7578	08-Nov-13	11082013-001.SSF	482716.813	22109
722199.406	4294322.534	6814	08-Nov-13	11082013-001.SSF	482717.939	22110
722199.869	4294322.781	6653	08-Nov-13	11082013-001.SSF	482718.77	22111
722200.133	4294323.064	7243	08-Nov-13	11082013-001.SSF	482719.874	22112
722200.338	4294323.427	7211	08-Nov-13	11082013-001.SSF	482720.796	22113
722200.866	4294323.7	7322	08-Nov-13	11082013-001.SSF	482721.9399	22114
722201.304	4294323.754	7950	08-Nov-13	11082013-001.SSF	482722.7841	22115
722201.943	4294323.898	7777	08-Nov-13	11082013-001.SSF	482723.879	22116
722202.48	4294324.152	7374	08-Nov-13	11082013-001.SSF	482724.77	22117
722203.196	4294324.338	7693	08-Nov-13	11082013-001.SSF	482725.932	22118
722203.848	4294324.554	6003	08-Nov-13	11082013-001.SSF	482726.9351	22119
722204.427	4294324.551	6826	08-Nov-13	11082013-001.SSF	482727.937	22120
722204.862	4294324.419	6116	08-Nov-13	11082013-001.SSF	482728.793	22121
722205.322	4294324.366	6899	08-Nov-13	11082013-001.SSF	482729.9399	22122
722205.705	4294324.493	6315	08-Nov-13	11082013-001.SSF	482730.814	22123
722206.256	4294324.599	5838	08-Nov-13	11082013-001.SSF	482731.998	22124
722206.605	4294324.672	6239	08-Nov-13	11082013-001.SSF	482732.8409	22125
722207.077	4294324.823	6030	08-Nov-13	11082013-001.SSF	482734.019	22126
722207.447	4294324.871	6716	08-Nov-13	11082013-001.SSF	482734.895	22127
722207.786	4294324.943	6313	08-Nov-13	11082013-001.SSF	482735.924	22128
722208.015	4294324.863	6237	08-Nov-13	11082013-001.SSF	482736.792	22129
722208.348	4294324.945	6659	08-Nov-13	11082013-001.SSF	482737.92	22130
722208.723	4294324.988	6645	08-Nov-13	11082013-001.SSF	482738.8	22131
722209.17	4294325.092	6311	08-Nov-13	11082013-001.SSF	482739.853	22132
722209.634	4294325.219	5891	08-Nov-13	11082013-001.SSF	482740.834	22133
722210.206	4294325.214	5931	08-Nov-13	11082013-001.SSF	482741.9821	22134
722210.501	4294325.139	5849	08-Nov-13	11082013-001.SSF	482742.806	22135
722210.779	4294325.12	6558	08-Nov-13	11082013-001.SSF	482743.9871	22136
722210.526	4294325.335	6109	08-Nov-13	11082013-001.SSF	482744.874	22137
722210.276	4294325.288	5937	08-Nov-13	11082013-001.SSF	482745.944	22138
722209.844	4294325.222	6741	08-Nov-13	11082013-001.SSF	482746.838	22139
722208.661	4294325.174	6305	08-Nov-13	11082013-001.SSF	482747.954	22140
722208.389	4294325.108	6106	08-Nov-13	11082013-001.SSF	482748.755	22141
722208.41	4294325.042	6536	08-Nov-13	11082013-001.SSF	482749.965	22142
722208.559	4294325.014	5474	08-Nov-13	11082013-001.SSF	482750.795	22143
722208.555	4294324.946	6169	08-Nov-13	11082013-001.SSF	482751.9189	22144
722208.123	4294325.01	6144	08-Nov-13	11082013-001.SSF	482752.894	22145

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722207.456	4294325.012	7653	08-Nov-13	11082013-001.SSF	482753.906	22146
722206.987	4294325.236	6773	08-Nov-13	11082013-001.SSF	482754.827	22147
722206.593	4294325.64	6763	08-Nov-13	11082013-001.SSF	482755.923	22148
722206.334	4294325.843	6311	08-Nov-13	11082013-001.SSF	482756.821	22149
722205.974	4294325.822	5876	08-Nov-13	11082013-001.SSF	482757.901	22150
722205.619	4294325.659	6073	08-Nov-13	11082013-001.SSF	482758.782	22151
722205.163	4294325.459	6978	08-Nov-13	11082013-001.SSF	482759.849	22152
722204.805	4294325.295	8224	08-Nov-13	11082013-001.SSF	482760.824	22153
722204.592	4294325.178	6706	08-Nov-13	11082013-001.SSF	482761.885	22154
722204.386	4294325.13	6536	08-Nov-13	11082013-001.SSF	482762.8	22155
722203.893	4294325.151	6104	08-Nov-13	11082013-001.SSF	482763.905	22156
722203.199	4294325.097	7256	08-Nov-13	11082013-001.SSF	482764.804	22157
722202.273	4294324.975	7784	08-Nov-13	11082013-001.SSF	482765.8979	22158
722201.609	4294324.728	8006	08-Nov-13	11082013-001.SSF	482766.859	22159
722200.966	4294324.533	7461	08-Nov-13	11082013-001.SSF	482767.921	22160
722200.29	4294324.409	6605	08-Nov-13	11082013-001.SSF	482768.85	22161
722199.813	4294324.462	6361	08-Nov-13	11082013-001.SSF	482769.937	22162
722199.535	4294325.052	6780	08-Nov-13	11082013-001.SSF	482770.838	22163
722199.408	4294325.604	6915	08-Nov-13	11082013-001.SSF	482771.931	22164
722199.701	4294325.715	6858	08-Nov-13	11082013-001.SSF	482772.8831	22165
722200.053	4294325.754	6694	08-Nov-13	11082013-001.SSF	482773.8879	22166
722200.348	4294325.784	6653	08-Nov-13	11082013-001.SSF	482774.785	22167
722200.878	4294325.824	7243	08-Nov-13	11082013-001.SSF	482775.936	22168
722201.424	4294325.967	7061	08-Nov-13	11082013-001.SSF	482776.859	22169
722201.898	4294325.921	7135	08-Nov-13	11082013-001.SSF	482777.97	22170
722202.176	4294326.042	6463	08-Nov-13	11082013-001.SSF	482778.8149	22171
722202.497	4294326.134	6896	08-Nov-13	11082013-001.SSF	482779.876	22172
722202.902	4294326.254	6734	08-Nov-13	11082013-001.SSF	482780.786	22173
722203.608	4294326.484	6843	08-Nov-13	11082013-001.SSF	482781.884	22174
722204.154	4294326.583	6840	08-Nov-13	11082013-001.SSF	482782.7939	22175
722204.716	4294326.499	6990	08-Nov-13	11082013-001.SSF	482783.8929	22176
722205.122	4294326.496	6637	08-Nov-13	11082013-001.SSF	482784.8199	22177
722205.794	4294326.795	7239	08-Nov-13	11082013-001.SSF	482785.881	22178
722206.057	4294327.172	6730	08-Nov-13	11082013-001.SSF	482786.796	22179
722206.006	4294327.555	6498	08-Nov-13	11082013-001.SSF	482787.886	22180
722205.77	4294327.492	5647	08-Nov-13	11082013-001.SSF	482788.786	22181
722205.124	4294327.358	7187	08-Nov-13	11082013-001.SSF	482789.8781	22182
722204.466	4294327.274	5906	08-Nov-13	11082013-001.SSF	482790.806	22183
722203.813	4294327.076	6190	08-Nov-13	11082013-001.SSF	482791.8929	22184
722203.32	4294326.822	6647	08-Nov-13	11082013-001.SSF	482792.865	22185
722203.011	4294326.676	6731	08-Nov-13	11082013-001.SSF	482793.9399	22186
722202.665	4294326.693	6753	08-Nov-13	11082013-001.SSF	482794.868	22187
722202.134	4294326.473	7358	08-Nov-13	11082013-001.SSF	482795.829	22188
722201.567	4294326.274	6879	08-Nov-13	11082013-001.SSF	482796.8199	22189
722200.892	4294326.115	6310	08-Nov-13	11082013-001.SSF	482797.905	22190
722200.279	4294325.993	5777	08-Nov-13	11082013-001.SSF	482798.817	22191
722199.653	4294325.847	5972	08-Nov-13	11082013-001.SSF	482799.891	22192

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722199.194	4294325.961	6529	08-Nov-13	11082013-001.SSF	482800.876	22193
722198.488	4294326.708	6702	08-Nov-13	11082013-001.SSF	482801.962	22194
722198.4	4294327.032	6655	08-Nov-13	11082013-001.SSF	482802.876	22195
722198.942	4294326.883	7004	08-Nov-13	11082013-001.SSF	482803.926	22196
722199.496	4294326.893	6041	08-Nov-13	11082013-001.SSF	482804.777	22197
722200.349	4294327.026	6870	08-Nov-13	11082013-001.SSF	482805.889	22198
722201.138	4294327.077	7717	08-Nov-13	11082013-001.SSF	482806.7469	22199
722202.409	4294326.963	7599	08-Nov-13	11082013-001.SSF	482807.879	22200
722203.233	4294326.945	6520	08-Nov-13	11082013-001.SSF	482808.756	22201
722203.879	4294326.987	6790	08-Nov-13	11082013-001.SSF	482809.88	22202
722204.346	4294327.013	6197	08-Nov-13	11082013-001.SSF	482810.834	22203
722204.877	4294327.163	7549	08-Nov-13	11082013-001.SSF	482811.932	22204
722205.189	4294327.357	7407	08-Nov-13	11082013-001.SSF	482812.869	22205
722205.677	4294327.334	6742	08-Nov-13	11082013-001.SSF	482813.928	22206
722206.247	4294327.39	6605	08-Nov-13	11082013-001.SSF	482814.8199	22207
722206.913	4294327.597	6511	08-Nov-13	11082013-001.SSF	482815.8781	22208
722206.984	4294327.691	7027	08-Nov-13	11082013-001.SSF	482816.861	22209
722206.412	4294327.88	6767	08-Nov-13	11082013-001.SSF	482817.928	22210
722205.812	4294327.888	6032	08-Nov-13	11082013-001.SSF	482818.858	22211
722205.415	4294327.755	6402	08-Nov-13	11082013-001.SSF	482819.869	22212
722205.159	4294327.773	6640	08-Nov-13	11082013-001.SSF	482820.8149	22213
722204.686	4294327.902	5910	08-Nov-13	11082013-001.SSF	482821.8719	22214
722204.259	4294327.824	6137	08-Nov-13	11082013-001.SSF	482822.744	22215
722203.729	4294327.702	7084	08-Nov-13	11082013-001.SSF	482823.863	22216
722203.134	4294327.362	6991	08-Nov-13	11082013-001.SSF	482824.782	22217
722202.281	4294326.779	7027	08-Nov-13	11082013-001.SSF	482825.906	22218
722201.666	4294326.505	6497	08-Nov-13	11082013-001.SSF	482826.813	22219
722201.075	4294326.414	6634	08-Nov-13	11082013-001.SSF	482827.963	22220
722200.705	4294326.392	7658	08-Nov-13	11082013-001.SSF	482828.751	22221
722200.175	4294326.257	6474	08-Nov-13	11082013-001.SSF	482829.911	22222
722199.761	4294326.142	6838	08-Nov-13	11082013-001.SSF	482830.769	22223
722199.117	4294326.258	6809	08-Nov-13	11082013-001.SSF	482831.978	22224
722198.8	4294326.441	6622	08-Nov-13	11082013-001.SSF	482832.8149	22225
722198.589	4294326.809	6995	08-Nov-13	11082013-001.SSF	482833.865	22226
722198.506	4294327.166	6908	08-Nov-13	11082013-001.SSF	482834.803	22227
722198.486	4294327.584	6197	08-Nov-13	11082013-001.SSF	482835.957	22228
722198.373	4294327.867	6409	08-Nov-13	11082013-001.SSF	482836.818	22229
722198.311	4294328.223	7392	08-Nov-13	11082013-001.SSF	482837.951	22230
722198.085	4294328.459	6828	08-Nov-13	11082013-001.SSF	482838.769	22231
722197.812	4294328.951	6717	08-Nov-13	11082013-001.SSF	482839.951	22232
722197.388	4294329.592	5938	08-Nov-13	11082013-001.SSF	482840.87	22233
722197.123	4294330.1	6532	08-Nov-13	11082013-001.SSF	482841.988	22234
722197.358	4294330.245	6133	08-Nov-13	11082013-001.SSF	482842.776	22235
722197.801	4294330.528	5613	08-Nov-13	11082013-001.SSF	482843.989	22236
722198.07	4294330.427	6120	08-Nov-13	11082013-001.SSF	482844.791	22237
722198.514	4294330.026	6510	08-Nov-13	11082013-001.SSF	482845.787	22238
722198.788	4294329.494	7687	08-Nov-13	11082013-001.SSF	482846.729	22239

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722199.057	4294328.775	7321	08-Nov-13	11082013-001.SSF	482847.7889	22240
722199.07	4294328.267	7320	08-Nov-13	11082013-001.SSF	482848.7321	22241
722199.073	4294327.882	6900	08-Nov-13	11082013-001.SSF	482849.813	22242
722199.139	4294327.524	7095	08-Nov-13	11082013-001.SSF	482850.7939	22243
722199.319	4294327.101	5853	08-Nov-13	11082013-001.SSF	482851.835	22244
722199.461	4294326.767	5850	08-Nov-13	11082013-001.SSF	482852.783	22245
722199.505	4294326.711	6178	08-Nov-13	11082013-001.SSF	482853.8	22246
722199.828	4294326.964	6554	08-Nov-13	11082013-001.SSF	482854.759	22247
722200.171	4294327.33	7008	08-Nov-13	11082013-001.SSF	482855.986	22248
722200.158	4294327.62	7032	08-Nov-13	11082013-001.SSF	482856.839	22249
722200.041	4294328.001	7218	08-Nov-13	11082013-001.SSF	482857.889	22250
722199.907	4294328.421	6304	08-Nov-13	11082013-001.SSF	482858.84	22251
722199.776	4294328.986	7366	08-Nov-13	11082013-001.SSF	482859.9871	22252
722199.805	4294329.472	6821	08-Nov-13	11082013-001.SSF	482860.799	22253
722200.052	4294330.186	6805	08-Nov-13	11082013-001.SSF	482861.885	22254
722200.384	4294330.508	7221	08-Nov-13	11082013-001.SSF	482862.826	22255
722200.654	4294330.354	6695	08-Nov-13	11082013-001.SSF	482863.875	22256
722200.838	4294330.08	6563	08-Nov-13	11082013-001.SSF	482864.788	22257
722200.995	4294329.622	6981	08-Nov-13	11082013-001.SSF	482865.828	22258
722201.044	4294329.142	7595	08-Nov-13	11082013-001.SSF	482866.776	22259
722201.306	4294328.553	7148	08-Nov-13	11082013-001.SSF	482867.802	22260
722201.47	4294327.901	7517	08-Nov-13	11082013-001.SSF	482868.793	22261
722201.607	4294327.596	7069	08-Nov-13	11082013-001.SSF	482869.793	22262
722202.49	4294327.472	6747	08-Nov-13	11082013-001.SSF	482870.87	22263
722203.244	4294327.567	6787	08-Nov-13	11082013-001.SSF	482871.99	22264
722203.458	4294327.459	6616	08-Nov-13	11082013-001.SSF	482872.832	22265
722203.558	4294327.535	6964	08-Nov-13	11082013-001.SSF	482873.8831	22266
722203.786	4294327.702	6301	08-Nov-13	11082013-001.SSF	482874.834	22267
722204.176	4294327.903	6525	08-Nov-13	11082013-001.SSF	482875.8979	22268
722204.426	4294328.042	7061	08-Nov-13	11082013-001.SSF	482876.858	22269
722204.583	4294328.227	6565	08-Nov-13	11082013-001.SSF	482877.932	22270
722204.725	4294328.457	6231	08-Nov-13	11082013-001.SSF	482878.822	22271
722205.109	4294328.764	6056	08-Nov-13	11082013-001.SSF	482880.0179	22272
722205.415	4294328.82	6711	08-Nov-13	11082013-001.SSF	482880.73	22273
722206.193	4294328.506	7107	08-Nov-13	11082013-001.SSF	482881.947	22274
722206.406	4294328.151	7537	08-Nov-13	11082013-001.SSF	482882.786	22275
722206.562	4294327.588	6474	08-Nov-13	11082013-001.SSF	482883.819	22276
722206.608	4294327.09	6448	08-Nov-13	11082013-001.SSF	482884.749	22277
722206.737	4294326.589	6292	08-Nov-13	11082013-001.SSF	482885.812	22278
722206.94	4294326.041	5833	08-Nov-13	11082013-001.SSF	482886.766	22279
722207.195	4294325.57	5853	08-Nov-13	11082013-001.SSF	482887.8669	22280
722207.339	4294325.275	7130	08-Nov-13	11082013-001.SSF	482888.698	22281
722207.551	4294324.929	6702	08-Nov-13	11082013-001.SSF	482889.861	22282
722207.816	4294324.662	6895	08-Nov-13	11082013-001.SSF	482890.809	22283
722208.206	4294324.624	6764	08-Nov-13	11082013-001.SSF	482891.918	22284
722208.776	4294324.64	5381	08-Nov-13	11082013-001.SSF	482892.7419	22285
722209.78	4294324.523	5726	08-Nov-13	11082013-001.SSF	482893.923	22286

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722211.405	4294324.433	5719	08-Nov-13	11082013-001.SSF	482895.942	22288
722211.935	4294324.616	5264	08-Nov-13	11082013-001.SSF	482896.829	22289
722212.675	4294324.869	5241	08-Nov-13	11082013-001.SSF	482897.952	22290
722213.649	4294324.656	5100	08-Nov-13	11082013-001.SSF	482898.849	22291
722214.961	4294324.214	5629	08-Nov-13	11082013-001.SSF	482899.892	22292
722216.069	4294323.859	5303	08-Nov-13	11082013-001.SSF	482900.786	22293
722217.266	4294323.548	5136	08-Nov-13	11082013-001.SSF	482901.8929	22294
722218.189	4294323.535	5836	08-Nov-13	11082013-001.SSF	482902.7841	22295
722219.513	4294323.563	5510	08-Nov-13	11082013-001.SSF	482903.886	22296
722220.492	4294323.348	5094	08-Nov-13	11082013-001.SSF	482904.762	22297
722221.54	4294322.88	4703	08-Nov-13	11082013-001.SSF	482905.825	22298
722222.442	4294322.436	5000	08-Nov-13	11082013-001.SSF	482906.7371	22299
722223.536	4294322.153	5017	08-Nov-13	11082013-001.SSF	482907.8409	22300
722224.475	4294322.15	4570	08-Nov-13	11082013-001.SSF	482908.7841	22301
722225.329	4294321.932	5473	08-Nov-13	11082013-001.SSF	482909.84	22302
722225.918	4294321.474	5486	08-Nov-13	11082013-001.SSF	482910.7841	22303
722226.907	4294320.945	5606	08-Nov-13	11082013-001.SSF	482911.947	22304
722227.834	4294320.887	5403	08-Nov-13	11082013-001.SSF	482912.723	22305
722229.053	4294320.865	5882	08-Nov-13	11082013-001.SSF	482913.822	22306
722229.925	4294320.612	5716	08-Nov-13	11082013-001.SSF	482914.757	22307
722230.984	4294320.161	5315	08-Nov-13	11082013-001.SSF	482915.792	22308
722232.099	4294319.7	5487	08-Nov-13	11082013-001.SSF	482916.772	22309
722233.109	4294319.456	5546	08-Nov-13	11082013-001.SSF	482917.743	22310
722233.995	4294319.306	5820	08-Nov-13	11082013-001.SSF	482918.678	22311
722234.777	4294319.142	6078	08-Nov-13	11082013-001.SSF	482919.771	22312
722235.071	4294319.055	5654	08-Nov-13	11082013-001.SSF	482920.7841	22313
722234.91	4294318.91	5355	08-Nov-13	11082013-001.SSF	482921.8409	22314
722234.666	4294318.748	5337	08-Nov-13	11082013-001.SSF	482922.787	22315
722234.605	4294318.673	5492	08-Nov-13	11082013-001.SSF	482923.809	22316
722234.617	4294318.655	5197	08-Nov-13	11082013-001.SSF	482924.8	22317
722234.651	4294318.678	5765	08-Nov-13	11082013-001.SSF	482925.78	22318
722234.566	4294318.69	5500	08-Nov-13	11082013-001.SSF	482926.746	22319
722234.376	4294318.678	5546	08-Nov-13	11082013-001.SSF	482927.821	22320
722234.224	4294318.645	5572	08-Nov-13	11082013-001.SSF	482928.79	22321
722234.144	4294318.441	5129	08-Nov-13	11082013-001.SSF	482929.772	22322
722234.205	4294318.15	5457	08-Nov-13	11082013-001.SSF	482930.786	22323
722234.376	4294318.008	5312	08-Nov-13	11082013-001.SSF	482931.8361	22324
722234.577	4294317.959	5568	08-Nov-13	11082013-001.SSF	482932.764	22325
722234.667	4294317.926	5464	08-Nov-13	11082013-001.SSF	482933.902	22326
722234.76	4294317.867	4941	08-Nov-13	11082013-001.SSF	482934.8051	22327
722234.894	4294317.789	5472	08-Nov-13	11082013-001.SSF	482935.875	22328
722234.937	4294317.736	5508	08-Nov-13	11082013-001.SSF	482936.8	22329
722234.986	4294317.652	5745	08-Nov-13	11082013-001.SSF	482937.801	22330
722234.999	4294317.655	5977	08-Nov-13	11082013-001.SSF	482938.802	22331
722235.081	4294317.683	5574	08-Nov-13	11082013-001.SSF	482939.806	22332
722235.151	4294317.726	5243	08-Nov-13	11082013-001.SSF	482940.829	22333

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722235.099	4294317.912	5446	08-Nov-13	11082013-001.SSF	482941.918	22334
722235.024	4294317.921	5576	08-Nov-13	11082013-001.SSF	482942.79	22335
722234.87	4294317.907	5191	08-Nov-13	11082013-001.SSF	482943.859	22336
722234.762	4294317.886	5095	08-Nov-13	11082013-001.SSF	482944.769	22337
722234.68	4294317.895	5476	08-Nov-13	11082013-001.SSF	482945.8	22338
722234.607	4294317.905	5607	08-Nov-13	11082013-001.SSF	482946.765	22339
722234.572	4294317.909	5659	08-Nov-13	11082013-001.SSF	482947.869	22340
722234.595	4294317.91	5373	08-Nov-13	11082013-001.SSF	482948.7629	22341
722234.662	4294317.922	4815	08-Nov-13	11082013-001.SSF	482949.7841	22342
722234.672	4294317.938	4951	08-Nov-13	11082013-001.SSF	482950.7271	22343
722223.18	4294357.035	4083	08-Nov-13	11082013-002.SSF	486778.634	22344
722224.212	4294356.875	3977	08-Nov-13	11082013-002.SSF	486779.531	22345
722225.74	4294356.628	4045	08-Nov-13	11082013-002.SSF	486780.463	22346
722226.918	4294356.44	4368	08-Nov-13	11082013-002.SSF	486781.447	22347
722227.876	4294356.28	4279	08-Nov-13	11082013-002.SSF	486782.545	22348
722228.456	4294356.171	4837	08-Nov-13	11082013-002.SSF	486783.419	22349
722229.016	4294356.075	4716	08-Nov-13	11082013-002.SSF	486784.434	22350
722229.387	4294355.985	4557	08-Nov-13	11082013-002.SSF	486785.364	22351
722229.693	4294355.873	4513	08-Nov-13	11082013-002.SSF	486786.405	22352
722229.962	4294355.775	4076	08-Nov-13	11082013-002.SSF	486787.371	22353
722230.2	4294355.677	4370	08-Nov-13	11082013-002.SSF	486788.447	22354
722230.365	4294355.618	4566	08-Nov-13	11082013-002.SSF	486789.415	22355
722230.513	4294355.573	4473	08-Nov-13	11082013-002.SSF	486790.452	22356
722230.646	4294355.527	4601	08-Nov-13	11082013-002.SSF	486791.428	22357
722230.774	4294355.477	4575	08-Nov-13	11082013-002.SSF	486792.516	22358
722233.578	4294355.859	4553	08-Nov-13	11082013-002.SSF	486793.451	22359
722236.958	4294356.357	4654	08-Nov-13	11082013-002.SSF	486794.506	22360
722236.983	4294356.361	4335	08-Nov-13	11082013-002.SSF	486795.363	22361
722237.104	4294356.38	4411	08-Nov-13	11082013-002.SSF	486796.463	22362
722237.281	4294356.408	4551	08-Nov-13	11082013-002.SSF	486797.403	22363
722237.491	4294356.453	4855	08-Nov-13	11082013-002.SSF	486798.479	22364
722237.549	4294356.47	4748	08-Nov-13	11082013-002.SSF	486799.396	22365
722237.568	4294356.47	4658	08-Nov-13	11082013-002.SSF	486800.541	22366
722237.698	4294356.488	4780	08-Nov-13	11082013-002.SSF	486801.388	22367
722237.9	4294356.521	4383	08-Nov-13	11082013-002.SSF	486802.483	22368
722238.137	4294356.563	4408	08-Nov-13	11082013-002.SSF	486803.379	22369
722238.559	4294356.643	4204	08-Nov-13	11082013-002.SSF	486804.495	22370
722238.735	4294356.674	4007	08-Nov-13	11082013-002.SSF	486805.418	22371
722238.842	4294356.688	3913	08-Nov-13	11082013-002.SSF	486806.491	22372
722238.857	4294356.721	4155	08-Nov-13	11082013-002.SSF	486807.434	22373
722238.808	4294356.79	4272	08-Nov-13	11082013-002.SSF	486808.499	22374
722238.813	4294356.834	4525	08-Nov-13	11082013-002.SSF	486809.427	22375
722238.827	4294356.854	4225	08-Nov-13	11082013-002.SSF	486810.481	22376
722238.687	4294356.851	4117	08-Nov-13	11082013-002.SSF	486811.372	22377
722238.25	4294356.859	4258	08-Nov-13	11082013-002.SSF	486812.523	22378
722238.092	4294356.735	4413	08-Nov-13	11082013-002.SSF	486813.388	22379
722238.158	4294356.43	4544	08-Nov-13	11082013-002.SSF	486814.461	22380

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722238.276	4294356.308	4122	08-Nov-13	11082013-002.SSF	486816.493	22382
722238.265	4294356.341	4073	08-Nov-13	11082013-002.SSF	486817.332	22383
722238.16	4294356.211	4323	08-Nov-13	11082013-002.SSF	486818.498	22384
722238.087	4294356.023	4314	08-Nov-13	11082013-002.SSF	486819.388	22385
722237.939	4294355.87	4047	08-Nov-13	11082013-002.SSF	486820.471	22386
722237.787	4294355.834	4128	08-Nov-13	11082013-002.SSF	486821.368	22387
722237.677	4294355.844	4422	08-Nov-13	11082013-002.SSF	486822.467	22388
722237.622	4294355.873	4517	08-Nov-13	11082013-002.SSF	486823.318	22389
722237.551	4294355.901	4281	08-Nov-13	11082013-002.SSF	486824.414	22390
722237.515	4294355.943	3878	08-Nov-13	11082013-002.SSF	486825.318	22391
722237.508	4294356.011	4028	08-Nov-13	11082013-002.SSF	486826.476	22392
722237.499	4294356.064	3998	08-Nov-13	11082013-002.SSF	486827.353	22393
722237.51	4294356.092	4208	08-Nov-13	11082013-002.SSF	486828.417	22394
722237.598	4294355.969	4204	08-Nov-13	11082013-002.SSF	486829.343	22395
722237.729	4294355.748	4615	08-Nov-13	11082013-002.SSF	486830.437	22396
722237.858	4294355.655	4388	08-Nov-13	11082013-002.SSF	486831.386	22397
722237.835	4294355.72	4096	08-Nov-13	11082013-002.SSF	486832.431	22398
722237.702	4294355.869	3970	08-Nov-13	11082013-002.SSF	486833.379	22399
722237.526	4294355.96	4161	08-Nov-13	11082013-002.SSF	486834.492	22400
722237.583	4294355.914	4081	08-Nov-13	11082013-002.SSF	486835.406	22401
722237.884	4294355.87	4416	08-Nov-13	11082013-002.SSF	486836.531	22402
722237.95	4294355.946	4344	08-Nov-13	11082013-002.SSF	486837.456	22403
722238.045	4294356.04	4213	08-Nov-13	11082013-002.SSF	486838.535	22404
722238.097	4294356.093	4492	08-Nov-13	11082013-002.SSF	486839.458	22405
722238.14	4294356.12	4342	08-Nov-13	11082013-002.SSF	486840.543	22406
722238.172	4294356.138	4332	08-Nov-13	11082013-002.SSF	486841.371	22407
722238.213	4294356.137	4177	08-Nov-13	11082013-002.SSF	486842.414	22408
722238.267	4294356.124	4090	08-Nov-13	11082013-002.SSF	486843.355	22409
722238.341	4294356.161	4273	08-Nov-13	11082013-002.SSF	486844.536	22410
722238.375	4294356.163	4398	08-Nov-13	11082013-002.SSF	486845.388	22411
722238.398	4294356.082	4739	08-Nov-13	11082013-002.SSF	486846.511	22412
722238.371	4294356.034	4788	08-Nov-13	11082013-002.SSF	486847.375	22413
722238.281	4294356.028	4478	08-Nov-13	11082013-002.SSF	486848.584	22414
722238.267	4294356.028	4529	08-Nov-13	11082013-002.SSF	486849.433	22415
722238.274	4294356.052	4385	08-Nov-13	11082013-002.SSF	486850.444	22416
722238.236	4294356.086	4664	08-Nov-13	11082013-002.SSF	486851.434	22417
722238.172	4294356.088	4281	08-Nov-13	11082013-002.SSF	486852.457	22418
722238.084	4294356.142	4155	08-Nov-13	11082013-002.SSF	486853.432	22419
722237.973	4294356.316	4100	08-Nov-13	11082013-002.SSF	486854.484	22420
722237.933	4294356.473	3792	08-Nov-13	11082013-002.SSF	486855.29	22421
722237.925	4294356.596	3913	08-Nov-13	11082013-002.SSF	486856.362	22422
722237.979	4294356.517	3847	08-Nov-13	11082013-002.SSF	486857.309	22423
722238.203	4294356.214	3948	08-Nov-13	11082013-002.SSF	486858.423	22424
722238.309	4294356.08	4312	08-Nov-13	11082013-002.SSF	486859.379	22425
722238.264	4294356.131	4166	08-Nov-13	11082013-002.SSF	486860.477	22426
722238.231	4294356.146	4376	08-Nov-13	11082013-002.SSF	486861.37	22427

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722238.224	4294356.133	4456	08-Nov-13	11082013-002.SSF	486862.456	22428
722238.24	4294356.145	4576	08-Nov-13	11082013-002.SSF	486863.435	22429
722238.242	4294356.176	4727	08-Nov-13	11082013-002.SSF	486864.438	22430
722238.19	4294356.258	4608	08-Nov-13	11082013-002.SSF	486865.38	22431
722238.148	4294356.413	4752	08-Nov-13	11082013-002.SSF	486866.455	22432
722238.253	4294356.425	4661	08-Nov-13	11082013-002.SSF	486867.331	22433
722238.458	4294356.248	5411	08-Nov-13	11082013-002.SSF	486868.407	22434
722238.449	4294356.131	5384	08-Nov-13	11082013-002.SSF	486869.306	22435
722238.213	4294356.199	5248	08-Nov-13	11082013-002.SSF	486870.39	22436
722238.035	4294356.282	5247	08-Nov-13	11082013-002.SSF	486871.386	22437
722237.98	4294356.215	5419	08-Nov-13	11082013-002.SSF	486872.423	22438
722237.844	4294356.11	5125	08-Nov-13	11082013-002.SSF	486873.381	22439
722237.369	4294355.826	5290	08-Nov-13	11082013-002.SSF	486874.415	22440
722236.717	4294355.584	4911	08-Nov-13	11082013-002.SSF	486875.367	22441
722236.134	4294355.776	5687	08-Nov-13	11082013-002.SSF	486876.477	22442
722235.838	4294356.189	5711	08-Nov-13	11082013-002.SSF	486877.357	22443
722235.518	4294356.763	5552	08-Nov-13	11082013-002.SSF	486878.45	22444
722235.427	4294357.204	5531	08-Nov-13	11082013-002.SSF	486879.319	22445
722235.611	4294357.517	5503	08-Nov-13	11082013-002.SSF	486880.353	22446
722235.643	4294357.544	5278	08-Nov-13	11082013-002.SSF	486881.326	22447
722235.477	4294357.493	5526	08-Nov-13	11082013-002.SSF	486882.449	22448
722235.444	4294357.487	5951	08-Nov-13	11082013-002.SSF	486883.308	22449
722235.424	4294357.503	5335	08-Nov-13	11082013-002.SSF	486884.436	22450
722235.4	4294357.497	4996	08-Nov-13	11082013-002.SSF	486885.384	22451
722235.342	4294357.455	5390	08-Nov-13	11082013-002.SSF	486886.511	22452
722235.3	4294357.4	5364	08-Nov-13	11082013-002.SSF	486887.359	22453
722235.305	4294357.168	5244	08-Nov-13	11082013-002.SSF	486889.345	22455
722235.213	4294357.077	5275	08-Nov-13	11082013-002.SSF	486890.379	22456
722234.776	4294356.889	5464	08-Nov-13	11082013-002.SSF	486891.331	22457
722233.78	4294356.71	5496	08-Nov-13	11082013-002.SSF	486892.394	22458
722232.687	4294356.763	5289	08-Nov-13	11082013-002.SSF	486893.367	22459
722231.523	4294356.901	5517	08-Nov-13	11082013-002.SSF	486894.428	22460
722230.501	4294356.863	5421	08-Nov-13	11082013-002.SSF	486895.354	22461
722229.224	4294356.575	6124	08-Nov-13	11082013-002.SSF	486896.373	22462
722228.02	4294356.237	5491	08-Nov-13	11082013-002.SSF	486897.326	22463
722226.842	4294355.945	5601	08-Nov-13	11082013-002.SSF	486898.401	22464
722225.753	4294355.777	5828	08-Nov-13	11082013-002.SSF	486899.408	22465
722224.722	4294355.713	5775	08-Nov-13	11082013-002.SSF	486900.36	22466
722223.67	4294355.836	6211	08-Nov-13	11082013-002.SSF	486901.375	22467
722222.532	4294356.059	6772	08-Nov-13	11082013-002.SSF	486902.456	22468
722221.601	4294356.088	7153	08-Nov-13	11082013-002.SSF	486903.314	22469
722220.434	4294355.771	6057	08-Nov-13	11082013-002.SSF	486904.378	22470
722219.292	4294355.276	5724	08-Nov-13	11082013-002.SSF	486905.399	22471
722218.072	4294354.948	5680	08-Nov-13	11082013-002.SSF	486906.484	22472
722217.105	4294354.843	5475	08-Nov-13	11082013-002.SSF	486907.357	22473
722215.866	4294354.734	5434	08-Nov-13	11082013-002.SSF	486908.422	22474
722214.747	4294354.523	5494	08-Nov-13	11082013-002.SSF	486909.352	22475

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722213.497	4294354.015	5243	08-Nov-13	11082013-002.SSF	486910.438	22476
722212.436	4294353.457	5506	08-Nov-13	11082013-002.SSF	486911.344	22477
722211.225	4294352.885	5295	08-Nov-13	11082013-002.SSF	486912.36	22478
722210.064	4294352.501	5611	08-Nov-13	11082013-002.SSF	486913.355	22479
722208.907	4294352.33	5353	08-Nov-13	11082013-002.SSF	486914.362	22480
722207.715	4294352.26	4946	08-Nov-13	11082013-002.SSF	486915.344	22481
722206.472	4294352.126	5227	08-Nov-13	11082013-002.SSF	486916.361	22482
722205.447	4294351.855	5122	08-Nov-13	11082013-002.SSF	486917.262	22483
722204.135	4294351.264	5371	08-Nov-13	11082013-002.SSF	486918.395	22484
722203.067	4294350.769	5361	08-Nov-13	11082013-002.SSF	486919.278	22485
722201.738	4294350.257	5753	08-Nov-13	11082013-002.SSF	486920.451	22486
722200.874	4294350.025	5636	08-Nov-13	11082013-002.SSF	486921.379	22487
722200.102	4294350.054	5908	08-Nov-13	11082013-002.SSF	486922.372	22488
722199.448	4294350.367	6265	08-Nov-13	11082013-002.SSF	486923.3	22489
722198.757	4294350.849	7206	08-Nov-13	11082013-002.SSF	486924.386	22490
722198.363	4294351.055	7141	08-Nov-13	11082013-002.SSF	486925.345	22491
722198.121	4294351.166	7035	08-Nov-13	11082013-002.SSF	486926.463	22492
722197.764	4294351.354	7638	08-Nov-13	11082013-002.SSF	486927.402	22493
722197.225	4294351.711	7099	08-Nov-13	11082013-002.SSF	486928.445	22494
722196.83	4294352.151	7145	08-Nov-13	11082013-002.SSF	486929.37	22495
722196.515	4294352.636	7366	08-Nov-13	11082013-002.SSF	486930.382	22496
722196.227	4294353.063	7541	08-Nov-13	11082013-002.SSF	486931.406	22497
722195.93	4294353.527	7645	08-Nov-13	11082013-002.SSF	486932.459	22498
722195.645	4294353.935	7281	08-Nov-13	11082013-002.SSF	486933.395	22499
722195.428	4294354.295	7880	08-Nov-13	11082013-002.SSF	486934.403	22500
722195.334	4294354.698	7670	08-Nov-13	11082013-002.SSF	486935.332	22501
722195.133	4294355.276	7407	08-Nov-13	11082013-002.SSF	486936.389	22502
722194.949	4294355.763	8452	08-Nov-13	11082013-002.SSF	486937.403	22503
722194.843	4294356.182	7543	08-Nov-13	11082013-002.SSF	486938.464	22504
722194.719	4294356.639	7075	08-Nov-13	11082013-002.SSF	486939.428	22505
722194.505	4294357.255	8309	08-Nov-13	11082013-002.SSF	486940.443	22506
722194.319	4294357.869	9247	08-Nov-13	11082013-002.SSF	486941.368	22507
722194.149	4294358.518	8821	08-Nov-13	11082013-002.SSF	486942.417	22508
722194.027	4294359.09	9345	08-Nov-13	11082013-002.SSF	486943.326	22509
722193.724	4294359.85	8876	08-Nov-13	11082013-002.SSF	486944.469	22510
722193.349	4294360.477	9209	08-Nov-13	11082013-002.SSF	486945.338	22511
722192.826	4294361.403	8602	08-Nov-13	11082013-002.SSF	486946.457	22512
722192.359	4294362.27	8870	08-Nov-13	11082013-002.SSF	486947.384	22513
722191.831	4294363.249	8847	08-Nov-13	11082013-002.SSF	486948.413	22514
722191.369	4294363.95	8872	08-Nov-13	11082013-002.SSF	486949.32	22515
722191.06	4294364.146	8339	08-Nov-13	11082013-002.SSF	486951.367	22516
722191.167	4294363.338	8895	08-Nov-13	11082013-002.SSF	486952.473	22517
722191.396	4294362.644	9333	08-Nov-13	11082013-002.SSF	486953.385	22518
722191.735	4294361.983	9323	08-Nov-13	11082013-002.SSF	486954.406	22519
722191.929	4294361.701	9350	08-Nov-13	11082013-002.SSF	486955.331	22520
722192.033	4294361.665	9327	08-Nov-13	11082013-002.SSF	486956.473	22521
722192.09	4294361.665	9622	08-Nov-13	11082013-002.SSF	486957.373	22522

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722192.172	4294361.694	8825	08-Nov-13	11082013-002.SSF	486958.415	22523
722192.215	4294361.712	8716	08-Nov-13	11082013-002.SSF	486959.385	22524
722192.285	4294361.626	7849	08-Nov-13	11082013-002.SSF	486960.354	22525
722192.521	4294361.331	8472	08-Nov-13	11082013-002.SSF	486961.3	22526
722192.833	4294360.768	9648	08-Nov-13	11082013-002.SSF	486962.325	22527
722193.033	4294360.092	10242	08-Nov-13	11082013-002.SSF	486963.35	22528
722193.3	4294359.33	8650	08-Nov-13	11082013-002.SSF	486964.416	22529
722193.448	4294358.608	7832	08-Nov-13	11082013-002.SSF	486965.384	22530
722193.582	4294357.921	8828	08-Nov-13	11082013-002.SSF	486966.42	22531
722193.794	4294357.451	7547	08-Nov-13	11082013-002.SSF	486967.348	22532
722194.11	4294357.004	7586	08-Nov-13	11082013-002.SSF	486968.457	22533
722194.364	4294356.587	8016	08-Nov-13	11082013-002.SSF	486969.379	22534
722194.471	4294356.252	8454	08-Nov-13	11082013-002.SSF	486970.383	22535
722194.566	4294356.13	8413	08-Nov-13	11082013-002.SSF	486971.327	22536
722194.832	4294355.895	8553	08-Nov-13	11082013-002.SSF	486972.352	22537
722195.063	4294355.433	7756	08-Nov-13	11082013-002.SSF	486973.298	22538
722195.159	4294354.796	8349	08-Nov-13	11082013-002.SSF	486974.411	22539
722195.196	4294354.423	7997	08-Nov-13	11082013-002.SSF	486975.336	22540
722195.253	4294354.28	7069	08-Nov-13	11082013-002.SSF	486976.436	22541
722195.279	4294354.258	7077	08-Nov-13	11082013-002.SSF	486977.353	22542
722195.27	4294354.224	6299	08-Nov-13	11082013-002.SSF	486978.382	22543
722195.354	4294354.167	7155	08-Nov-13	11082013-002.SSF	486979.395	22544
722195.751	4294353.827	7068	08-Nov-13	11082013-002.SSF	486980.437	22545
722196.154	4294353.218	7377	08-Nov-13	11082013-002.SSF	486981.359	22546
722196.542	4294352.692	7844	08-Nov-13	11082013-002.SSF	486982.383	22547
722196.867	4294352.315	7421	08-Nov-13	11082013-002.SSF	486983.428	22548
722197.174	4294351.811	8485	08-Nov-13	11082013-002.SSF	486984.448	22549
722197.429	4294351.377	7461	08-Nov-13	11082013-002.SSF	486985.34	22550
722197.386	4294350.774	7955	08-Nov-13	11082013-002.SSF	486986.372	22551
722197.041	4294350.171	7268	08-Nov-13	11082013-002.SSF	486987.302	22552
722196.592	4294350.018	6977	08-Nov-13	11082013-002.SSF	486988.315	22553
722196.112	4294350.441	7624	08-Nov-13	11082013-002.SSF	486989.321	22554
722195.639	4294351.397	8239	08-Nov-13	11082013-002.SSF	486991.266	22555
722195.299	4294351.996	7459	08-Nov-13	11082013-002.SSF	486992.386	22556
722195.058	4294352.69	6725	08-Nov-13	11082013-002.SSF	486993.306	22557
722194.805	4294353.52	7591	08-Nov-13	11082013-002.SSF	486994.366	22558
722194.577	4294354.115	6937	08-Nov-13	11082013-002.SSF	486995.335	22559
722194.351	4294354.611	8214	08-Nov-13	11082013-002.SSF	486996.363	22560
722193.971	4294355.063	7303	08-Nov-13	11082013-002.SSF	486997.341	22561
722193.607	4294355.628	7346	08-Nov-13	11082013-002.SSF	486998.387	22562
722193.362	4294356.14	6576	08-Nov-13	11082013-002.SSF	486999.333	22563
722193.111	4294356.744	7434	08-Nov-13	11082013-002.SSF	487000.338	22564
722192.747	4294357.505	7678	08-Nov-13	11082013-002.SSF	487001.305	22565
722192.328	4294358.285	9299	08-Nov-13	11082013-002.SSF	487002.33	22566
722192.15	4294358.836	7815	08-Nov-13	11082013-002.SSF	487003.271	22567
722191.951	4294359.567	8193	08-Nov-13	11082013-002.SSF	487004.392	22568
722191.718	4294360.313	8258	08-Nov-13	11082013-002.SSF	487005.33	22569

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722190.972	4294361.615	8811	08-Nov-13	11082013-002.SSF	487007.37	22571
722190.703	4294361.915	7422	08-Nov-13	11082013-002.SSF	487008.292	22572
722190.317	4294361.794	7915	08-Nov-13	11082013-002.SSF	487009.267	22573
722189.789	4294361.096	9689	08-Nov-13	11082013-002.SSF	487010.436	22574
722189.742	4294360.528	9832	08-Nov-13	11082013-002.SSF	487011.343	22575
722189.995	4294359.877	9508	08-Nov-13	11082013-002.SSF	487012.443	22576
722190.196	4294359.208	7777	08-Nov-13	11082013-002.SSF	487013.366	22577
722190.466	4294358.424	7134	08-Nov-13	11082013-002.SSF	487014.392	22578
722190.691	4294357.78	7123	08-Nov-13	11082013-002.SSF	487015.333	22579
722190.89	4294357.199	7301	08-Nov-13	11082013-002.SSF	487016.389	22580
722191.053	4294356.718	8545	08-Nov-13	11082013-002.SSF	487017.337	22581
722191.306	4294355.97	8496	08-Nov-13	11082013-002.SSF	487018.351	22582
722191.891	4294355.171	8508	08-Nov-13	11082013-002.SSF	487019.368	22583
722192.39	4294354.641	7468	08-Nov-13	11082013-002.SSF	487020.352	22584
722192.626	4294354.348	6967	08-Nov-13	11082013-002.SSF	487021.304	22585
722192.872	4294353.84	7051	08-Nov-13	11082013-002.SSF	487022.34	22586
722192.959	4294352.947	8122	08-Nov-13	11082013-002.SSF	487023.289	22587
722193.244	4294352.225	7370	08-Nov-13	11082013-002.SSF	487024.328	22588
722194.235	4294350.988	6895	08-Nov-13	11082013-002.SSF	487026.459	22589
722194.891	4294349.713	7421	08-Nov-13	11082013-002.SSF	487028.494	22590
722194.747	4294349.22	8155	08-Nov-13	11082013-002.SSF	487029.373	22591
722194.36	4294349.145	7078	08-Nov-13	11082013-002.SSF	487030.338	22592
722193.849	4294349.47	6569	08-Nov-13	11082013-002.SSF	487031.268	22593
722193.372	4294349.985	7372	08-Nov-13	11082013-002.SSF	487032.283	22594
722193.039	4294350.654	7903	08-Nov-13	11082013-002.SSF	487033.319	22595
722192.575	4294351.396	7345	08-Nov-13	11082013-002.SSF	487034.329	22596
722192.03	4294352.074	8496	08-Nov-13	11082013-002.SSF	487035.337	22597
722191.528	4294352.69	8814	08-Nov-13	11082013-002.SSF	487036.264	22598
722190.912	4294353.535	8443	08-Nov-13	11082013-002.SSF	487037.296	22599
722190.57	4294354.509	8591	08-Nov-13	11082013-002.SSF	487038.324	22600
722190.386	4294355.426	9197	08-Nov-13	11082013-002.SSF	487039.336	22601
722190.107	4294356.357	7969	08-Nov-13	11082013-002.SSF	487040.353	22602
722189.95	4294357.424	8802	08-Nov-13	11082013-002.SSF	487041.38	22603
722189.797	4294358.339	7840	08-Nov-13	11082013-002.SSF	487042.394	22604
722189.667	4294358.997	8290	08-Nov-13	11082013-002.SSF	487043.33	22605
722189.676	4294359.712	7922	08-Nov-13	11082013-002.SSF	487044.397	22606
722189.528	4294360.248	7680	08-Nov-13	11082013-002.SSF	487045.345	22607
722189.32	4294360.666	8460	08-Nov-13	11082013-002.SSF	487046.383	22608
722189.404	4294360.902	8265	08-Nov-13	11082013-002.SSF	487047.294	22609
722189.681	4294360.876	8186	08-Nov-13	11082013-002.SSF	487048.334	22610
722189.751	4294360.474	8136	08-Nov-13	11082013-002.SSF	487049.317	22611
722189.865	4294359.7	8394	08-Nov-13	11082013-002.SSF	487050.41	22612
722190.161	4294358.911	8698	08-Nov-13	11082013-002.SSF	487051.32	22613
722190.363	4294357.996	8924	08-Nov-13	11082013-002.SSF	487052.335	22614
722190.324	4294357.116	8681	08-Nov-13	11082013-002.SSF	487053.275	22615
722190.341	4294356.188	8800	08-Nov-13	11082013-002.SSF	487054.307	22616

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722190.522	4294355.234	9730	08-Nov-13	11082013-002.SSF	487055.389	22617
722190.672	4294354.311	8042	08-Nov-13	11082013-002.SSF	487056.367	22618
722191.031	4294353.463	8880	08-Nov-13	11082013-002.SSF	487057.278	22619
722191.973	4294352.511	7350	08-Nov-13	11082013-002.SSF	487058.386	22620
722192.53	4294351.886	6787	08-Nov-13	11082013-002.SSF	487059.267	22621
722192.902	4294351.204	6977	08-Nov-13	11082013-002.SSF	487060.374	22622
722193.497	4294350.622	8074	08-Nov-13	11082013-002.SSF	487061.389	22623
722194.139	4294350.084	7868	08-Nov-13	11082013-002.SSF	487062.339	22624
722194.791	4294349.504	6827	08-Nov-13	11082013-002.SSF	487063.381	22625
722195.488	4294348.962	6686	08-Nov-13	11082013-002.SSF	487064.412	22626
722195.756	4294348.314	6351	08-Nov-13	11082013-002.SSF	487065.351	22627
722195.272	4294347.431	5831	08-Nov-13	11082013-002.SSF	487066.37	22628
722194.39	4294346.492	5853	08-Nov-13	11082013-002.SSF	487067.43	22629
722193.632	4294345.679	5415	08-Nov-13	11082013-002.SSF	487068.347	22630
722192.791	4294344.841	5430	08-Nov-13	11082013-002.SSF	487069.354	22631
722191.874	4294344.173	5829	08-Nov-13	11082013-002.SSF	487070.335	22632
722190.795	4294343.67	5904	08-Nov-13	11082013-002.SSF	487071.356	22633
722189.688	4294343.289	5094	08-Nov-13	11082013-002.SSF	487072.386	22634
722188.723	4294342.868	5505	08-Nov-13	11082013-002.SSF	487073.311	22635
722187.619	4294342.263	5729	08-Nov-13	11082013-002.SSF	487074.365	22636
722186.569	4294341.867	5847	08-Nov-13	11082013-002.SSF	487075.34	22637
722185.579	4294341.971	5741	08-Nov-13	11082013-002.SSF	487076.346	22638
722184.883	4294342.576	6574	08-Nov-13	11082013-002.SSF	487077.366	22639
722184.383	4294343.129	7883	08-Nov-13	11082013-002.SSF	487078.379	22640
722183.904	4294343.512	7581	08-Nov-13	11082013-002.SSF	487079.394	22641
722182.876	4294344.491	7883	08-Nov-13	11082013-002.SSF	487081.362	22642
722182.439	4294344.858	9681	08-Nov-13	11082013-002.SSF	487082.379	22643
722182.13	4294345.211	8630	08-Nov-13	11082013-002.SSF	487083.398	22644
722181.801	4294345.521	8427	08-Nov-13	11082013-002.SSF	487084.342	22645
722181.435	4294345.87	8857	08-Nov-13	11082013-002.SSF	487085.337	22646
722181.138	4294346.15	8634	08-Nov-13	11082013-002.SSF	487086.339	22647
722180.764	4294346.371	8338	08-Nov-13	11082013-002.SSF	487087.307	22648
722180.208	4294346.765	8084	08-Nov-13	11082013-002.SSF	487088.343	22649
722179.739	4294347.339	9611	08-Nov-13	11082013-002.SSF	487089.409	22650
722179.303	4294347.822	10022	08-Nov-13	11082013-002.SSF	487090.346	22651
722178.814	4294348.378	9045	08-Nov-13	11082013-002.SSF	487091.372	22652
722178.502	4294349.033	9341	08-Nov-13	11082013-002.SSF	487092.347	22653
722178.071	4294349.725	8155	08-Nov-13	11082013-002.SSF	487093.368	22654
722177.623	4294350.313	8519	08-Nov-13	11082013-002.SSF	487094.324	22655
722177.09	4294350.7	8339	08-Nov-13	11082013-002.SSF	487095.333	22656
722176.4	4294350.858	9345	08-Nov-13	11082013-002.SSF	487096.36	22657
722175.826	4294350.879	9806	08-Nov-13	11082013-002.SSF	487097.333	22658
722175.253	4294350.822	8841	08-Nov-13	11082013-002.SSF	487098.322	22659
722174.539	4294350.668	9080	08-Nov-13	11082013-002.SSF	487099.351	22660
722173.885	4294350.487	7880	08-Nov-13	11082013-002.SSF	487100.402	22661
722172.747	4294351.12	8540	08-Nov-13	11082013-002.SSF	487102.417	22662
722172.23	4294351.263	9005	08-Nov-13	11082013-002.SSF	487103.33	22663

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722171.664	4294351.132	9091	08-Nov-13	11082013-002.SSF	487104.397	22664
722171.138	4294350.935	8932	08-Nov-13	11082013-002.SSF	487105.332	22665
722170.52	4294350.931	9193	08-Nov-13	11082013-002.SSF	487106.346	22666
722169.787	4294351.138	8748	08-Nov-13	11082013-002.SSF	487107.348	22667
722168.953	4294351.56	8187	08-Nov-13	11082013-002.SSF	487108.348	22668
722168.062	4294351.917	9306	08-Nov-13	11082013-002.SSF	487109.368	22669
722167.348	4294352.131	9166	08-Nov-13	11082013-002.SSF	487110.338	22670
722166.737	4294352.287	9383	08-Nov-13	11082013-002.SSF	487111.279	22671
722164.924	4294352.525	8562	08-Nov-13	11082013-002.SSF	487113.351	22672
722164.257	4294352.691	8320	08-Nov-13	11082013-002.SSF	487114.281	22673
722163.578	4294352.841	8560	08-Nov-13	11082013-002.SSF	487115.345	22674
722162.863	4294353.105	8890	08-Nov-13	11082013-002.SSF	487116.373	22675
722162.279	4294353.219	9485	08-Nov-13	11082013-002.SSF	487117.318	22676
722161.702	4294353.297	9450	08-Nov-13	11082013-002.SSF	487118.409	22677
722161.13	4294353.346	8992	08-Nov-13	11082013-002.SSF	487119.343	22678
722160.345	4294353.199	8668	08-Nov-13	11082013-002.SSF	487120.332	22679
722159.389	4294353.066	9217	08-Nov-13	11082013-002.SSF	487121.346	22680
722158.567	4294353.028	8574	08-Nov-13	11082013-002.SSF	487122.349	22681
722157.95	4294352.967	8743	08-Nov-13	11082013-002.SSF	487123.29	22682
722157.187	4294352.862	9716	08-Nov-13	11082013-002.SSF	487124.316	22683
722156.369	4294352.65	9509	08-Nov-13	11082013-002.SSF	487125.343	22684
722155.606	4294352.478	9307	08-Nov-13	11082013-002.SSF	487126.351	22685
722154.946	4294352.379	8056	08-Nov-13	11082013-002.SSF	487127.366	22686
722154.374	4294352.293	7804	08-Nov-13	11082013-002.SSF	487128.329	22687
722153.672	4294352.268	9481	08-Nov-13	11082013-002.SSF	487129.303	22688
722152.917	4294352.191	8790	08-Nov-13	11082013-002.SSF	487130.348	22689
722152.214	4294352.011	9037	08-Nov-13	11082013-002.SSF	487131.376	22690
722151.748	4294351.73	9009	08-Nov-13	11082013-002.SSF	487132.404	22691
722151.53	4294351.714	9482	08-Nov-13	11082013-002.SSF	487133.337	22692
722151.501	4294351.868	9090	08-Nov-13	11082013-002.SSF	487134.431	22693
722151.696	4294351.764	8392	08-Nov-13	11082013-002.SSF	487135.337	22694
722151.802	4294351.494	8068	08-Nov-13	11082013-002.SSF	487136.341	22695
722151.829	4294351.286	8707	08-Nov-13	11082013-002.SSF	487137.356	22696
722151.961	4294351.075	7756	08-Nov-13	11082013-002.SSF	487138.399	22697
722152.038	4294350.978	8119	08-Nov-13	11082013-002.SSF	487139.332	22698
722152.191	4294351.098	8119	08-Nov-13	11082013-002.SSF	487140.345	22699
722152.525	4294351.273	7940	08-Nov-13	11082013-002.SSF	487141.296	22700
722153.223	4294351.401	8225	08-Nov-13	11082013-002.SSF	487142.393	22701
722153.912	4294351.577	10276	08-Nov-13	11082013-002.SSF	487143.328	22702
722154.729	4294351.834	9469	08-Nov-13	11082013-002.SSF	487144.298	22703
722155.723	4294352.006	9027	08-Nov-13	11082013-002.SSF	487145.334	22704
722156.636	4294352.131	8497	08-Nov-13	11082013-002.SSF	487146.429	22705
722157.327	4294352.194	8604	08-Nov-13	11082013-002.SSF	487147.342	22706
722158.092	4294352.197	8211	08-Nov-13	11082013-002.SSF	487148.341	22707
722158.777	4294352.324	7722	08-Nov-13	11082013-002.SSF	487149.383	22708
722159.416	4294352.521	8080	08-Nov-13	11082013-002.SSF	487150.329	22709
722160.152	4294352.57	7990	08-Nov-13	11082013-002.SSF	487151.272	22710

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722160.957	4294352.619	8447	08-Nov-13	11082013-002.SSF	487152.261	22711
722161.763	4294352.826	8681	08-Nov-13	11082013-002.SSF	487153.279	22712
722162.569	4294352.948	9100	08-Nov-13	11082013-002.SSF	487154.35	22713
722163.226	4294352.963	9415	08-Nov-13	11082013-002.SSF	487155.325	22714
722164.616	4294352.777	8958	08-Nov-13	11082013-002.SSF	487157.354	22715
722165.509	4294352.651	7729	08-Nov-13	11082013-002.SSF	487158.394	22716
722166.253	4294352.435	8082	08-Nov-13	11082013-002.SSF	487159.348	22717
722166.949	4294352.141	9070	08-Nov-13	11082013-002.SSF	487160.344	22718
722167.676	4294351.894	10907	08-Nov-13	11082013-002.SSF	487161.334	22719
722168.291	4294351.574	10916	08-Nov-13	11082013-002.SSF	487162.368	22720
722168.754	4294351.295	9449	08-Nov-13	11082013-002.SSF	487163.247	22721
722170.566	4294350.493	9058	08-Nov-13	11082013-002.SSF	487165.34	22723
722171.284	4294350.094	9434	08-Nov-13	11082013-002.SSF	487166.391	22724
722171.812	4294349.931	10038	08-Nov-13	11082013-002.SSF	487167.394	22725
722172.415	4294349.927	8989	08-Nov-13	11082013-002.SSF	487168.32	22726
722173.394	4294350.234	8667	08-Nov-13	11082013-002.SSF	487169.308	22727
722174.468	4294350.354	9307	08-Nov-13	11082013-002.SSF	487170.317	22728
722175.356	4294349.955	9016	08-Nov-13	11082013-002.SSF	487171.332	22729
722176.207	4294349.582	8644	08-Nov-13	11082013-002.SSF	487172.338	22730
722177.013	4294349.224	8671	08-Nov-13	11082013-002.SSF	487173.337	22731
722177.875	4294348.614	9307	08-Nov-13	11082013-002.SSF	487174.44	22732
722178.579	4294348.175	8087	08-Nov-13	11082013-002.SSF	487175.339	22733
722179.223	4294347.723	9401	08-Nov-13	11082013-002.SSF	487176.282	22734
722179.907	4294346.982	8080	08-Nov-13	11082013-002.SSF	487177.296	22735
722180.618	4294346.296	9160	08-Nov-13	11082013-002.SSF	487178.298	22736
722181.314	4294345.697	9100	08-Nov-13	11082013-002.SSF	487179.286	22737
722181.901	4294344.762	9445	08-Nov-13	11082013-002.SSF	487180.362	22738
722182.344	4294343.979	9021	08-Nov-13	11082013-002.SSF	487181.402	22739
722182.886	4294343.393	9515	08-Nov-13	11082013-002.SSF	487182.433	22740
722183.054	4294342.843	7658	08-Nov-13	11082013-002.SSF	487183.401	22741
722182.514	4294342.262	7074	08-Nov-13	11082013-002.SSF	487184.456	22742
722181.844	4294342.003	7228	08-Nov-13	11082013-002.SSF	487185.347	22743
722181.334	4294342.262	7777	08-Nov-13	11082013-002.SSF	487186.34	22744
722181.109	4294342.893	9684	08-Nov-13	11082013-002.SSF	487187.293	22745
722180.71	4294343.701	7971	08-Nov-13	11082013-002.SSF	487188.411	22746
722180.263	4294344.317	9012	08-Nov-13	11082013-002.SSF	487189.345	22747
722179.782	4294344.942	9243	08-Nov-13	11082013-002.SSF	487190.337	22748
722179.217	4294345.525	8430	08-Nov-13	11082013-002.SSF	487191.309	22749
722178.677	4294346.146	8827	08-Nov-13	11082013-002.SSF	487192.319	22750
722178.309	4294346.884	8627	08-Nov-13	11082013-002.SSF	487193.333	22751
722177.841	4294347.435	8816	08-Nov-13	11082013-002.SSF	487194.363	22752
722177.051	4294347.514	9014	08-Nov-13	11082013-002.SSF	487195.38	22753
722176.122	4294347.499	9783	08-Nov-13	11082013-002.SSF	487196.409	22754
722175.32	4294347.628	10065	08-Nov-13	11082013-002.SSF	487197.365	22755
722174.497	4294347.792	8636	08-Nov-13	11082013-002.SSF	487198.393	22756
722173.668	4294348.04	9149	08-Nov-13	11082013-002.SSF	487199.333	22757
722172.781	4294348.482	8527	08-Nov-13	11082013-002.SSF	487200.344	22758

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722172.078	4294348.801	9181	08-Nov-13	11082013-002.SSF	487201.377	22759
722171.431	4294348.9	9015	08-Nov-13	11082013-002.SSF	487202.406	22760
722170.7	4294348.949	8613	08-Nov-13	11082013-002.SSF	487203.343	22761
722169.695	4294349.125	9143	08-Nov-13	11082013-002.SSF	487204.39	22762
722168.907	4294349.409	8316	08-Nov-13	11082013-002.SSF	487205.302	22763
722168.35	4294349.708	9849	08-Nov-13	11082013-002.SSF	487206.343	22764
722167.959	4294349.893	8402	08-Nov-13	11082013-002.SSF	487207.386	22765
722167.587	4294350.023	8430	08-Nov-13	11082013-002.SSF	487208.374	22766
722167.012	4294350.173	7267	08-Nov-13	11082013-002.SSF	487209.366	22767
722166.269	4294350.426	7937	08-Nov-13	11082013-002.SSF	487210.37	22768
722165.659	4294350.64	8824	08-Nov-13	11082013-002.SSF	487211.3	22769
722164.995	4294350.882	9136	08-Nov-13	11082013-002.SSF	487212.313	22770
722164.325	4294351.194	9544	08-Nov-13	11082013-002.SSF	487213.247	22771
722163.419	4294351.533	9436	08-Nov-13	11082013-002.SSF	487214.336	22772
722162.717	4294351.85	9139	08-Nov-13	11082013-002.SSF	487215.271	22773
722162.141	4294352.028	9544	08-Nov-13	11082013-002.SSF	487216.291	22774
722161.491	4294351.98	8506	08-Nov-13	11082013-002.SSF	487217.208	22775
722160.395	4294351.866	9236	08-Nov-13	11082013-002.SSF	487218.316	22776
722159.495	4294351.734	9209	08-Nov-13	11082013-002.SSF	487219.309	22777
722158.631	4294351.576	10162	08-Nov-13	11082013-002.SSF	487220.36	22778
722156.971	4294351.376	8172	08-Nov-13	11082013-002.SSF	487222.282	22780
722156.062	4294351.211	9693	08-Nov-13	11082013-002.SSF	487223.277	22781
722154.876	4294351.099	8243	08-Nov-13	11082013-002.SSF	487224.353	22782
722154.074	4294350.966	7850	08-Nov-13	11082013-002.SSF	487225.28	22783
722153.418	4294350.512	8262	08-Nov-13	11082013-002.SSF	487226.303	22784
722152.616	4294350.025	9115	08-Nov-13	11082013-002.SSF	487227.278	22785
722151.994	4294349.807	9194	08-Nov-13	11082013-002.SSF	487229.181	22786
722152.868	4294350.042	8988	08-Nov-13	11082013-002.SSF	487230.343	22787
722153.845	4294350.259	7887	08-Nov-13	11082013-002.SSF	487231.284	22788
722154.838	4294350.268	8811	08-Nov-13	11082013-002.SSF	487232.336	22789
722155.558	4294350.247	8593	08-Nov-13	11082013-002.SSF	487233.286	22790
722156.433	4294350.302	8718	08-Nov-13	11082013-002.SSF	487234.307	22791
722157.453	4294350.31	9649	08-Nov-13	11082013-002.SSF	487235.261	22792
722158.309	4294350.372	9192	08-Nov-13	11082013-002.SSF	487236.271	22793
722158.931	4294350.722	9138	08-Nov-13	11082013-002.SSF	487237.216	22794
722159.75	4294351.256	8674	08-Nov-13	11082013-002.SSF	487238.404	22795
722160.379	4294351.571	8318	08-Nov-13	11082013-002.SSF	487239.245	22796
722161.37	4294351.783	8979	08-Nov-13	11082013-002.SSF	487240.347	22797
722162.299	4294351.82	8035	08-Nov-13	11082013-002.SSF	487241.313	22798
722163.224	4294351.685	9268	08-Nov-13	11082013-002.SSF	487242.323	22799
722163.895	4294351.437	9007	08-Nov-13	11082013-002.SSF	487243.287	22800
722164.439	4294351.182	8401	08-Nov-13	11082013-002.SSF	487244.383	22801
722164.898	4294350.752	9810	08-Nov-13	11082013-002.SSF	487245.299	22802
722165.307	4294349.933	8392	08-Nov-13	11082013-002.SSF	487246.345	22803
722165.672	4294349.166	9688	08-Nov-13	11082013-002.SSF	487247.405	22804
722165.985	4294348.702	8572	08-Nov-13	11082013-002.SSF	487248.387	22805
722166.3	4294348.381	9463	08-Nov-13	11082013-002.SSF	487249.323	22806

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722166.713	4294347.946	8605	08-Nov-13	11082013-002.SSF	487250.351	22807
722167.174	4294347.66	8181	08-Nov-13	11082013-002.SSF	487251.302	22808
722168.231	4294347.381	8506	08-Nov-13	11082013-002.SSF	487253.288	22809
722168.833	4294347.417	9236	08-Nov-13	11082013-002.SSF	487254.34	22810
722169.495	4294347.548	8189	08-Nov-13	11082013-002.SSF	487255.212	22811
722170.504	4294347.475	9067	08-Nov-13	11082013-002.SSF	487256.359	22812
722171.265	4294347.359	8896	08-Nov-13	11082013-002.SSF	487257.33	22813
722171.85	4294347.277	9124	08-Nov-13	11082013-002.SSF	487258.289	22814
722172.531	4294347.17	8251	08-Nov-13	11082013-002.SSF	487259.336	22815
722173.273	4294347.104	10582	08-Nov-13	11082013-002.SSF	487260.292	22816
722173.899	4294346.943	9425	08-Nov-13	11082013-002.SSF	487261.289	22817
722174.393	4294346.864	8656	08-Nov-13	11082013-002.SSF	487262.309	22818
722175.063	4294346.899	8524	08-Nov-13	11082013-002.SSF	487263.307	22819
722176.025	4294346.767	9271	08-Nov-13	11082013-002.SSF	487264.311	22820
722177.984	4294346.375	9692	08-Nov-13	11082013-002.SSF	487266.318	22821
722179.463	4294345.041	8810	08-Nov-13	11082013-002.SSF	487268.332	22822
722179.826	4294344.399	8892	08-Nov-13	11082013-002.SSF	487269.316	22823
722180.167	4294343.604	8703	08-Nov-13	11082013-002.SSF	487270.381	22824
722180.745	4294342.957	9315	08-Nov-13	11082013-002.SSF	487271.324	22825
722181.47	4294342.228	8988	08-Nov-13	11082013-002.SSF	487272.33	22826
722182.187	4294341.192	7437	08-Nov-13	11082013-002.SSF	487273.328	22827
722182.701	4294340.174	6689	08-Nov-13	11082013-002.SSF	487274.34	22828
722182.63	4294339.35	6262	08-Nov-13	11082013-002.SSF	487275.276	22829
722181.909	4294338.624	6455	08-Nov-13	11082013-002.SSF	487276.311	22830
722180.918	4294338.271	5660	08-Nov-13	11082013-002.SSF	487277.235	22831
722179.811	4294337.897	5869	08-Nov-13	11082013-002.SSF	487278.327	22832
722178.957	4294337.44	5956	08-Nov-13	11082013-002.SSF	487279.261	22833
722177.905	4294336.861	5953	08-Nov-13	11082013-002.SSF	487280.321	22834
722176.886	4294336.322	6018	08-Nov-13	11082013-002.SSF	487281.281	22835
722175.965	4294335.733	6138	08-Nov-13	11082013-002.SSF	487282.363	22836
722175.363	4294335.239	5764	08-Nov-13	11082013-002.SSF	487283.322	22837
722174.649	4294334.735	5567	08-Nov-13	11082013-002.SSF	487284.341	22838
722173.925	4294334.465	5554	08-Nov-13	11082013-002.SSF	487285.186	22839
722172.607	4294334.193	5869	08-Nov-13	11082013-002.SSF	487286.331	22840
722171.52	4294333.879	5889	08-Nov-13	11082013-002.SSF	487287.216	22841
722170.493	4294333.374	5682	08-Nov-13	11082013-002.SSF	487288.284	22842
722169.631	4294332.844	5671	08-Nov-13	11082013-002.SSF	487289.191	22843
722168.467	4294332.343	5747	08-Nov-13	11082013-002.SSF	487290.281	22844
722167.343	4294332.085	5528	08-Nov-13	11082013-002.SSF	487291.258	22845
722166.176	4294331.794	5824	08-Nov-13	11082013-002.SSF	487292.265	22846
722165.143	4294331.319	5826	08-Nov-13	11082013-002.SSF	487293.214	22847
722163.966	4294330.662	5842	08-Nov-13	11082013-002.SSF	487294.337	22848
722162.917	4294330.324	5176	08-Nov-13	11082013-002.SSF	487295.362	22849
722161.729	4294330.162	6486	08-Nov-13	11082013-002.SSF	487296.407	22850
722160.713	4294330.008	5372	08-Nov-13	11082013-002.SSF	487297.289	22851
722159.452	4294329.77	5782	08-Nov-13	11082013-002.SSF	487298.44	22852
722158.454	4294329.543	5873	08-Nov-13	11082013-002.SSF	487299.341	22853

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722157.352	4294329.336	5373	08-Nov-13	11082013-002.SSF	487300.296	22854
722156.162	4294329.264	5700	08-Nov-13	11082013-002.SSF	487301.298	22855
722154.945	4294329.169	5576	08-Nov-13	11082013-002.SSF	487302.389	22856
722153.895	4294328.943	5536	08-Nov-13	11082013-002.SSF	487303.341	22857
722152.799	4294328.69	5544	08-Nov-13	11082013-002.SSF	487304.342	22858
722151.769	4294328.551	5781	08-Nov-13	11082013-002.SSF	487305.298	22859
722150.607	4294328.403	5674	08-Nov-13	11082013-002.SSF	487306.277	22860
722149.435	4294328.144	5959	08-Nov-13	11082013-002.SSF	487307.245	22861
722148.295	4294327.787	6375	08-Nov-13	11082013-002.SSF	487308.3	22862
722147.336	4294327.623	7113	08-Nov-13	11082013-002.SSF	487309.282	22863
722146.633	4294327.912	8048	08-Nov-13	11082013-002.SSF	487310.314	22864
722146.358	4294328.409	8462	08-Nov-13	11082013-002.SSF	487311.203	22865
722146.009	4294328.998	8565	08-Nov-13	11082013-002.SSF	487312.357	22866
722145.636	4294329.427	8441	08-Nov-13	11082013-002.SSF	487313.271	22867
722145.087	4294329.866	8020	08-Nov-13	11082013-002.SSF	487314.384	22868
722144.708	4294330.235	7285	08-Nov-13	11082013-002.SSF	487315.261	22869
722144.343	4294330.698	7821	08-Nov-13	11082013-002.SSF	487316.288	22870
722144.125	4294331.137	8345	08-Nov-13	11082013-002.SSF	487317.244	22871
722143.951	4294331.542	7966	08-Nov-13	11082013-002.SSF	487318.307	22872
722143.685	4294331.848	8021	08-Nov-13	11082013-002.SSF	487319.2	22873
722143.228	4294332.251	8725	08-Nov-13	11082013-002.SSF	487320.302	22874
722142.754	4294332.623	8421	08-Nov-13	11082013-002.SSF	487321.362	22875
722142.344	4294332.739	7655	08-Nov-13	11082013-002.SSF	487322.364	22876
722141.939	4294332.754	8603	08-Nov-13	11082013-002.SSF	487323.365	22877
722141.478	4294332.951	8361	08-Nov-13	11082013-002.SSF	487324.368	22878
722141.16	4294333.283	8660	08-Nov-13	11082013-002.SSF	487325.21	22879
722140.993	4294333.918	8165	08-Nov-13	11082013-002.SSF	487326.285	22880
722140.813	4294334.445	9241	08-Nov-13	11082013-002.SSF	487327.308	22881
722140.537	4294334.777	9540	08-Nov-13	11082013-002.SSF	487328.397	22882
722140.491	4294334.747	8265	08-Nov-13	11082013-002.SSF	487329.306	22883
722140.8	4294334.313	8876	08-Nov-13	11082013-002.SSF	487330.289	22884
722141.314	4294333.615	8459	08-Nov-13	11082013-002.SSF	487331.353	22885
722141.872	4294333.014	9525	08-Nov-13	11082013-002.SSF	487332.304	22886
722142.392	4294332.313	8891	08-Nov-13	11082013-002.SSF	487333.302	22887
722142.779	4294331.632	8252	08-Nov-13	11082013-002.SSF	487334.379	22888
722143.092	4294331.173	8243	08-Nov-13	11082013-002.SSF	487335.273	22889
722143.488	4294330.565	8270	08-Nov-13	11082013-002.SSF	487336.282	22890
722143.919	4294329.946	8427	08-Nov-13	11082013-002.SSF	487337.204	22891
722144.171	4294329.152	7627	08-Nov-13	11082013-002.SSF	487338.268	22892
722144.182	4294328.432	8116	08-Nov-13	11082013-002.SSF	487339.23	22893
722143.931	4294327.885	8239	08-Nov-13	11082013-002.SSF	487340.375	22894
722143.282	4294327.728	8239	08-Nov-13	11082013-002.SSF	487341.332	22895
722142.624	4294327.944	8180	08-Nov-13	11082013-002.SSF	487342.372	22896
722142.324	4294328.41	8285	08-Nov-13	11082013-002.SSF	487343.244	22897
722141.929	4294329.068	8161	08-Nov-13	11082013-002.SSF	487344.332	22898
722141.682	4294329.645	8850	08-Nov-13	11082013-002.SSF	487345.29	22899
722141.395	4294330.325	9142	08-Nov-13	11082013-002.SSF	487346.412	22900

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722140.341	4294332.12	8892	08-Nov-13	11082013-002.SSF	487350.308	22903
722140.384	4294332.524	9093	08-Nov-13	11082013-002.SSF	487351.295	22904
722140.503	4294332.756	8723	08-Nov-13	11082013-002.SSF	487352.362	22905
722140.53	4294332.501	9290	08-Nov-13	11082013-002.SSF	487353.247	22906
722140.233	4294331.711	10482	08-Nov-13	11082013-002.SSF	487354.342	22907
722139.977	4294331.059	10150	08-Nov-13	11082013-002.SSF	487355.295	22908
722139.957	4294330.576	9437	08-Nov-13	11082013-002.SSF	487356.295	22909
722140.16	4294330.206	9679	08-Nov-13	11082013-002.SSF	487357.219	22910
722141.109	4294329.065	8620	08-Nov-13	11082013-002.SSF	487359.278	22911
722141.466	4294328.321	7797	08-Nov-13	11082013-002.SSF	487360.309	22912
722141.758	4294327.409	8249	08-Nov-13	11082013-002.SSF	487361.244	22913
722141.728	4294326.323	8602	08-Nov-13	11082013-002.SSF	487362.284	22914
722141.365	4294325.844	7850	08-Nov-13	11082013-002.SSF	487363.249	22915
722140.751	4294325.948	8622	08-Nov-13	11082013-002.SSF	487364.252	22916
722140.367	4294326.384	8695	08-Nov-13	11082013-002.SSF	487365.263	22917
722140.189	4294326.923	7814	08-Nov-13	11082013-002.SSF	487366.318	22918
722139.947	4294327.493	7293	08-Nov-13	11082013-002.SSF	487367.283	22919
722139.559	4294328.275	7943	08-Nov-13	11082013-002.SSF	487368.345	22920
722139.08	4294329.049	8825	08-Nov-13	11082013-002.SSF	487369.355	22921
722138.569	4294329.75	8596	08-Nov-13	11082013-002.SSF	487370.329	22922
722138.086	4294330.383	8659	08-Nov-13	11082013-002.SSF	487371.304	22923
722137.921	4294331.003	9424	08-Nov-13	11082013-002.SSF	487372.319	22924
722138.523	4294330.774	9079	08-Nov-13	11082013-002.SSF	487374.354	22925
722138.893	4294330.343	8989	08-Nov-13	11082013-002.SSF	487375.325	22926
722139.679	4294329.778	8427	08-Nov-13	11082013-002.SSF	487376.388	22927
722140.447	4294329.111	8167	08-Nov-13	11082013-002.SSF	487377.368	22928
722141.235	4294328.577	8611	08-Nov-13	11082013-002.SSF	487378.321	22929
722141.999	4294328.119	8212	08-Nov-13	11082013-002.SSF	487379.232	22930
722142.669	4294327.601	7603	08-Nov-13	11082013-002.SSF	487380.386	22931
722142.932	4294327.335	7331	08-Nov-13	11082013-002.SSF	487381.325	22932
722142.92	4294327.081	6722	08-Nov-13	11082013-002.SSF	487382.314	22933
722142.842	4294326.929	6540	08-Nov-13	11082013-002.SSF	487383.331	22934
722142.828	4294326.927	7155	08-Nov-13	11082013-002.SSF	487384.385	22935
722142.763	4294327.017	6018	08-Nov-13	11082013-002.SSF	487385.305	22936
722142.711	4294327.124	6288	08-Nov-13	11082013-002.SSF	487386.361	22937
722142.667	4294327.151	7212	08-Nov-13	11082013-002.SSF	487387.311	22938
722142.628	4294327.197	7563	08-Nov-13	11082013-002.SSF	487388.322	22939
722142.643	4294327.303	6637	08-Nov-13	11082013-002.SSF	487390.306	22940
722142.66	4294327.352	6789	08-Nov-13	11082013-002.SSF	487391.246	22941
722142.651	4294327.462	6167	08-Nov-13	11082013-002.SSF	487392.363	22942
722142.671	4294327.454	6107	08-Nov-13	11082013-002.SSF	487393.325	22943
722142.589	4294327.319	6596	08-Nov-13	11082013-002.SSF	487394.251	22944
722141.789	4294326.199	6175	08-Nov-13	11082013-002.SSF	487398.232	22945
722142.011	4294326.382	6738	08-Nov-13	11082013-002.SSF	487400.191	22946
722142.178	4294326.517	6514	08-Nov-13	11082013-002.SSF	487401.284	22947
722142.197	4294326.442	6458	08-Nov-13	11082013-002.SSF	487402.192	22948

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722142.131	4294326.608	6834	08-Nov-13	11082013-002.SSF	487403.204	22949
722142.105	4294326.735	6868	08-Nov-13	11082013-002.SSF	487404.199	22950
722141.964	4294326.847	6277	08-Nov-13	11082013-002.SSF	487405.327	22951
722141.772	4294326.947	6219	08-Nov-13	11082013-002.SSF	487406.367	22952
722141.597	4294327.066	6414	08-Nov-13	11082013-002.SSF	487407.28	22953
722141.556	4294327.181	6823	08-Nov-13	11082013-002.SSF	487408.275	22954
722141.829	4294327.128	6446	08-Nov-13	11082013-002.SSF	487409.176	22955
722141.995	4294327.103	6557	08-Nov-13	11082013-002.SSF	487410.31	22956
722142.103	4294327.133	7339	08-Nov-13	11082013-002.SSF	487411.196	22957
722142.322	4294327.24	6994	08-Nov-13	11082013-002.SSF	487412.187	22958
722142.371	4294327.276	6908	08-Nov-13	11082013-002.SSF	487413.169	22959
722142.406	4294327.292	6467	08-Nov-13	11082013-002.SSF	487414.192	22960
722142.453	4294327.335	6326	08-Nov-13	11082013-002.SSF	487415.158	22961
722237.628	4294315.447	4939	12-Nov-13	11122013-002.SSF	223263.451	22962
722237.508	4294315.583	5201	12-Nov-13	11122013-002.SSF	223264.518	22963
722237.568	4294315.559	4808	12-Nov-13	11122013-002.SSF	223265.51	22964
722237.665	4294315.503	5127	12-Nov-13	11122013-002.SSF	223266.59	22965
722237.615	4294315.493	4931	12-Nov-13	11122013-002.SSF	223267.552	22966
722238.176	4294315.827	5482	12-Nov-13	11122013-002.SSF	223273.53	22967
722238.364	4294315.837	5551	12-Nov-13	11122013-002.SSF	223274.581	22968
722238.465	4294315.812	4990	12-Nov-13	11122013-002.SSF	223275.53	22969
722238.664	4294315.695	4899	12-Nov-13	11122013-002.SSF	223276.535	22970
722238.93	4294315.558	4938	12-Nov-13	11122013-002.SSF	223277.433	22971
722239.095	4294315.428	5020	12-Nov-13	11122013-002.SSF	223278.553	22972
722239.123	4294315.382	5021	12-Nov-13	11122013-002.SSF	223279.47	22973
722239.19	4294315.371	4902	12-Nov-13	11122013-002.SSF	223280.609	22974
722239.251	4294315.362	5300	12-Nov-13	11122013-002.SSF	223281.496	22975
722239.318	4294315.34	5276	12-Nov-13	11122013-002.SSF	223282.648	22976
722239.36	4294315.315	5382	12-Nov-13	11122013-002.SSF	223283.484	22977
722239.394	4294315.292	5277	12-Nov-13	11122013-002.SSF	223284.095	22978
722239.506	4294315.221	4963	12-Nov-13	11122013-002.SSF	223285.504	22979
722239.036	4294315.353	4823	12-Nov-13	11122013-002.SSF	223290.644	22980
722238.922	4294315.353	5191	12-Nov-13	11122013-002.SSF	223292.607	22981
722239.714	4294312.357	4730	12-Nov-13	11122013-002.SSF	223380.52	22982
722239.744	4294312.37	4971	12-Nov-13	11122013-002.SSF	223381.431	22983
722239.757	4294312.382	5218	12-Nov-13	11122013-002.SSF	223382.527	22984
722239.756	4294312.384	5215	12-Nov-13	11122013-002.SSF	223383.515	22985
722239.716	4294312.367	5348	12-Nov-13	11122013-002.SSF	223385.511	22986
722239.691	4294312.362	5386	12-Nov-13	11122013-002.SSF	223386.556	22987
722239.646	4294312.343	4710	12-Nov-13	11122013-002.SSF	223389.534	22988
722239.624	4294312.542	5340	12-Nov-13	11122013-002.SSF	223399.53	22989
722239.604	4294312.55	5148	12-Nov-13	11122013-002.SSF	223400.524	22990
722239.567	4294312.509	5109	12-Nov-13	11122013-002.SSF	223404.559	22991
722239.589	4294312.518	5131	12-Nov-13	11122013-002.SSF	223405.452	22992
722239.645	4294312.576	4834	12-Nov-13	11122013-002.SSF	223407.448	22993
722239.624	4294312.599	5021	12-Nov-13	11122013-002.SSF	223408.535	22994
722239.552	4294312.593	4879	12-Nov-13	11122013-002.SSF	223409.439	22995

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722239.462	4294312.56	4860	12-Nov-13	11122013-002.SSF	223410.546	22996
722239.41	4294312.533	4863	12-Nov-13	11122013-002.SSF	223411.524	22997
722239.359	4294312.52	5090	12-Nov-13	11122013-002.SSF	223412.544	22998
722239.277	4294312.472	5083	12-Nov-13	11122013-002.SSF	223413.504	22999
722239.176	4294312.381	4712	12-Nov-13	11122013-002.SSF	223414.603	23000
722239.134	4294312.37	5223	12-Nov-13	11122013-002.SSF	223415.518	23001
722239.237	4294312.389	4805	12-Nov-13	11122013-002.SSF	223416.616	23002
722239.387	4294312.518	5223	12-Nov-13	11122013-002.SSF	223417.517	23003
722237.82	4294313.533	4798	12-Nov-13	11122013-002.SSF	223418.612	23004
722237.487	4294314.188	4560	12-Nov-13	11122013-002.SSF	223420.564	23005
722237.808	4294314.272	4650	12-Nov-13	11122013-002.SSF	223421.469	23006
722238.077	4294314.335	4288	12-Nov-13	11122013-002.SSF	223422.561	23007
722238.267	4294314.342	4249	12-Nov-13	11122013-002.SSF	223423.473	23008
722238.463	4294314.338	5022	12-Nov-13	11122013-002.SSF	223424.619	23009
722238.682	4294314.485	5437	12-Nov-13	11122013-002.SSF	223429.463	23010
722238.581	4294314.377	5271	12-Nov-13	11122013-002.SSF	223435.568	23011
722238.025	4294314.193	5253	12-Nov-13	11122013-002.SSF	223440.642	23012
722237.916	4294314.183	4747	12-Nov-13	11122013-002.SSF	223441.477	23013
722237.792	4294314.163	4545	12-Nov-13	11122013-002.SSF	223442.581	23014
722237.65	4294314.117	4994	12-Nov-13	11122013-002.SSF	223443.468	23015
722237.341	4294314.044	4609	12-Nov-13	11122013-002.SSF	223444.547	23016
722237.047	4294313.98	5450	12-Nov-13	11122013-002.SSF	223445.442	23017
722236.686	4294313.904	5585	12-Nov-13	11122013-002.SSF	223446.59	23018
722236.441	4294313.85	5482	12-Nov-13	11122013-002.SSF	223447.438	23019
722235.168	4294313.174	5031	12-Nov-13	11122013-002.SSF	223453.491	23020
722234.869	4294312.892	5559	12-Nov-13	11122013-002.SSF	223461.473	23021
722234.882	4294312.891	5527	12-Nov-13	11122013-002.SSF	223462.484	23022
722234.92	4294312.862	4946	12-Nov-13	11122013-002.SSF	223465.494	23023
722234.88	4294312.821	4995	12-Nov-13	11122013-002.SSF	223466.513	23024
722234.871	4294312.783	5259	12-Nov-13	11122013-002.SSF	223468.566	23025
722234.875	4294312.779	4905	12-Nov-13	11122013-002.SSF	223469.464	23026
722234.799	4294312.797	5432	12-Nov-13	11122013-002.SSF	223471.419	23027
722234.697	4294312.825	4705	12-Nov-13	11122013-002.SSF	223472.455	23028
722234.646	4294312.846	4957	12-Nov-13	11122013-002.SSF	223473.443	23029
722234.588	4294312.887	5425	12-Nov-13	11122013-002.SSF	223475.396	23030
722234.565	4294312.869	5001	12-Nov-13	11122013-002.SSF	223476.546	23031
722234.525	4294312.805	4696	12-Nov-13	11122013-002.SSF	223477.404	23032
722234.44	4294312.728	4786	12-Nov-13	11122013-002.SSF	223478.521	23033
722234.371	4294312.718	5250	12-Nov-13	11122013-002.SSF	223479.365	23034
722234.269	4294312.668	5098	12-Nov-13	11122013-002.SSF	223480.613	23035
722234.212	4294312.602	4862	12-Nov-13	11122013-002.SSF	223481.51	23036
722234.36	4294312.699	4769	12-Nov-13	11122013-002.SSF	223483.522	23037
722234.46	4294312.784	4550	12-Nov-13	11122013-002.SSF	223484.524	23038
722234.553	4294312.862	4959	12-Nov-13	11122013-002.SSF	223485.519	23039
722235.059	4294312.981	4928	12-Nov-13	11122013-002.SSF	223492.496	23040
722235.134	4294312.963	4527	12-Nov-13	11122013-002.SSF	223496.5	23041
722235.042	4294312.957	4901	12-Nov-13	11122013-002.SSF	223497.399	23042

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722234.919	4294312.949	5266	12-Nov-13	11122013-002.SSF	223499.385	23044
722234.845	4294312.958	4672	12-Nov-13	11122013-002.SSF	223500.524	23045
722234.757	4294312.959	4728	12-Nov-13	11122013-002.SSF	223501.488	23046
722234.549	4294312.876	4542	12-Nov-13	11122013-002.SSF	223502.577	23047
722234.332	4294312.766	4876	12-Nov-13	11122013-002.SSF	223503.432	23048
722234.1	4294312.65	4770	12-Nov-13	11122013-002.SSF	223504.531	23049
722233.506	4294312.395	4792	12-Nov-13	11122013-002.SSF	223508.498	23050
722233.442	4294312.342	4758	12-Nov-13	11122013-002.SSF	223509.477	23051
722233.776	4294312.106	5263	12-Nov-13	11122013-002.SSF	223511.469	23052
722234.027	4294311.834	5042	12-Nov-13	11122013-002.SSF	223513.477	23053
722234.232	4294311.702	5018	12-Nov-13	11122013-002.SSF	223514.498	23054
722234.359	4294311.611	5080	12-Nov-13	11122013-002.SSF	223515.432	23055
722234.481	4294311.556	4650	12-Nov-13	11122013-002.SSF	223516.56	23056
722234.511	4294311.554	4940	12-Nov-13	11122013-002.SSF	223517.458	23057
722234.432	4294311.578	4901	12-Nov-13	11122013-002.SSF	223518.51	23058
722234.321	4294311.624	4684	12-Nov-13	11122013-002.SSF	223519.422	23059
722234.021	4294311.678	4809	12-Nov-13	11122013-002.SSF	223521.497	23060
722233.914	4294311.664	5300	12-Nov-13	11122013-002.SSF	223522.502	23061
722234.011	4294311.779	5193	12-Nov-13	11122013-002.SSF	223523.448	23062
722234.403	4294312.102	5306	12-Nov-13	11122013-002.SSF	223524.572	23063
722234.898	4294312.362	5640	12-Nov-13	11122013-002.SSF	223525.455	23064
722235.349	4294312.495	5385	12-Nov-13	11122013-002.SSF	223526.541	23065
722235.442	4294312.473	5061	12-Nov-13	11122013-002.SSF	223527.419	23066
722235.587	4294312.447	4752	12-Nov-13	11122013-002.SSF	223528.476	23067
722235.769	4294312.462	4644	12-Nov-13	11122013-002.SSF	223529.441	23068
722235.962	4294312.483	5184	12-Nov-13	11122013-002.SSF	223530.507	23069
722236.115	4294312.486	5173	12-Nov-13	11122013-002.SSF	223531.479	23070
722236.283	4294312.499	4852	12-Nov-13	11122013-002.SSF	223532.536	23071
722236.466	4294312.471	4799	12-Nov-13	11122013-002.SSF	223534.447	23072
722236.612	4294312.495	5092	12-Nov-13	11122013-002.SSF	223535.411	23073
722236.798	4294312.557	4836	12-Nov-13	11122013-002.SSF	223536.435	23074
722236.955	4294312.619	4790	12-Nov-13	11122013-002.SSF	223537.333	23075
722237.263	4294312.755	5169	12-Nov-13	11122013-002.SSF	223538.441	23076
722237.592	4294312.929	4910	12-Nov-13	11122013-002.SSF	223539.422	23077
722237.943	4294313.126	4367	12-Nov-13	11122013-002.SSF	223540.523	23078
722238.16	4294313.228	4429	12-Nov-13	11122013-002.SSF	223541.425	23079
722238.363	4294313.338	5086	12-Nov-13	11122013-002.SSF	223542.492	23080
722238.473	4294313.389	5516	12-Nov-13	11122013-002.SSF	223543.49	23081
722238.572	4294313.444	5172	12-Nov-13	11122013-002.SSF	223544.58	23082
722238.665	4294313.497	4912	12-Nov-13	11122013-002.SSF	223545.43	23083
722238.78	4294313.559	5080	12-Nov-13	11122013-002.SSF	223546.448	23084
722238.858	4294313.605	5430	12-Nov-13	11122013-002.SSF	223547.378	23085
722238.887	4294313.626	5327	12-Nov-13	11122013-002.SSF	223548.492	23086
722238.906	4294313.67	5501	12-Nov-13	11122013-002.SSF	223549.37	23087
722238.97	4294313.772	5202	12-Nov-13	11122013-002.SSF	223550.455	23088
722239.033	4294313.866	4988	12-Nov-13	11122013-002.SSF	223551.391	23089

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722239.022	4294313.967	5044	12-Nov-13	11122013-002.SSF	223553.372	23091
722238.988	4294313.961	5080	12-Nov-13	11122013-002.SSF	223554.491	23092
722238.999	4294313.946	5160	12-Nov-13	11122013-002.SSF	223555.423	23093
722239.026	4294313.926	5137	12-Nov-13	11122013-002.SSF	223556.566	23094
722239.073	4294313.916	4795	12-Nov-13	11122013-002.SSF	223557.413	23095
722239.185	4294313.852	5164	12-Nov-13	11122013-002.SSF	223558.51	23096
722239.261	4294313.812	5095	12-Nov-13	11122013-002.SSF	223559.411	23097
722239.283	4294313.819	5108	12-Nov-13	11122013-002.SSF	223560.514	23098
722239.284	4294313.85	5431	12-Nov-13	11122013-002.SSF	223561.413	23099
722239.274	4294313.88	5425	12-Nov-13	11122013-002.SSF	223562.517	23100
722239.237	4294313.9	4971	12-Nov-13	11122013-002.SSF	223563.406	23101
722239.123	4294313.856	4521	12-Nov-13	11122013-002.SSF	223564.528	23102
722239.035	4294313.769	4313	12-Nov-13	11122013-002.SSF	223565.448	23103
722239.012	4294313.71	4181	12-Nov-13	11122013-002.SSF	223566.522	23104
722239.006	4294313.671	5232	12-Nov-13	11122013-002.SSF	223567.469	23105
722238.936	4294313.668	4795	12-Nov-13	11122013-002.SSF	223568.477	23106
722238.834	4294313.781	4632	12-Nov-13	11122013-002.SSF	223569.508	23107
722238.672	4294314.001	5013	12-Nov-13	11122013-002.SSF	223570.571	23108
722238.48	4294314.156	4822	12-Nov-13	11122013-002.SSF	223571.503	23109
722238.376	4294314.218	4640	12-Nov-13	11122013-002.SSF	223572.49	23110
722238.36	4294314.219	4687	12-Nov-13	11122013-002.SSF	223573.488	23111
722238.397	4294314.209	4984	12-Nov-13	11122013-002.SSF	223574.512	23112
722238.458	4294314.21	4851	12-Nov-13	11122013-002.SSF	223575.466	23113
722244.422	4294321.791	3676	12-Nov-13	11122013-002.SSF	223715.439	23114
722244.434	4294321.813	3853	12-Nov-13	11122013-002.SSF	223716.506	23115
722244.42	4294321.8	3796	12-Nov-13	11122013-002.SSF	223717.445	23116
722244.414	4294321.797	3732	12-Nov-13	11122013-002.SSF	223718.477	23117
722244.41	4294321.806	3622	12-Nov-13	11122013-002.SSF	223719.446	23118
722244.409	4294321.812	3768	12-Nov-13	11122013-002.SSF	223720.427	23119
722244.398	4294321.811	3967	12-Nov-13	11122013-002.SSF	223721.399	23120
722244.387	4294321.799	4041	12-Nov-13	11122013-002.SSF	223722.428	23121
722244.392	4294321.777	3991	12-Nov-13	11122013-002.SSF	223723.339	23122
722244.384	4294321.725	3895	12-Nov-13	11122013-002.SSF	223724.475	23123
722244.355	4294321.701	3861	12-Nov-13	11122013-002.SSF	223725.352	23124
722244.35	4294321.695	3988	12-Nov-13	11122013-002.SSF	223726.465	23125
722244.445	4294321.654	3849	12-Nov-13	11122013-002.SSF	223727.388	23126
722244.577	4294321.645	4026	12-Nov-13	11122013-002.SSF	223728.472	23127
722244.579	4294321.63	3816	12-Nov-13	11122013-002.SSF	223729.39	23128
722244.487	4294321.578	3803	12-Nov-13	11122013-002.SSF	223730.44	23129
722244.425	4294321.567	3938	12-Nov-13	11122013-002.SSF	223731.402	23130
722244.395	4294321.578	3835	12-Nov-13	11122013-002.SSF	223732.435	23131
722244.385	4294321.579	4163	12-Nov-13	11122013-002.SSF	223733.266	23132
722244.38	4294321.571	4314	12-Nov-13	11122013-002.SSF	223734.405	23133
722244.358	4294321.564	4121	12-Nov-13	11122013-002.SSF	223735.328	23134
722244.334	4294321.511	4080	12-Nov-13	11122013-002.SSF	223736.447	23135
722244.335	4294321.454	4005	12-Nov-13	11122013-002.SSF	223737.263	23136

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722244.353	4294321.417	3936	12-Nov-13	11122013-002.SSF	223739.337	23138
722244.331	4294321.442	3880	12-Nov-13	11122013-002.SSF	223740.455	23139
722244.284	4294321.443	3864	12-Nov-13	11122013-002.SSF	223741.401	23140
722244.287	4294321.463	4097	12-Nov-13	11122013-002.SSF	223742.429	23141
722244.313	4294321.517	3855	12-Nov-13	11122013-002.SSF	223743.362	23142
722244.267	4294321.561	3864	12-Nov-13	11122013-002.SSF	223744.437	23143
722244.239	4294321.593	3873	12-Nov-13	11122013-002.SSF	223745.368	23144
722244.261	4294321.61	4130	12-Nov-13	11122013-002.SSF	223746.464	23145
722244.299	4294321.574	4100	12-Nov-13	11122013-002.SSF	223747.338	23146
722244.385	4294321.367	3792	12-Nov-13	11122013-002.SSF	223748.428	23147
722244.467	4294321.152	4013	12-Nov-13	11122013-002.SSF	223749.375	23148
722244.565	4294321.21	4140	12-Nov-13	11122013-002.SSF	223750.449	23149
722244.648	4294321.437	4354	12-Nov-13	11122013-002.SSF	223751.36	23150
722244.693	4294321.698	4339	12-Nov-13	11122013-002.SSF	223752.427	23151
722244.72	4294321.76	4225	12-Nov-13	11122013-002.SSF	223753.38	23152
722244.692	4294321.746	3861	12-Nov-13	11122013-002.SSF	223754.428	23153
722244.587	4294321.618	3884	12-Nov-13	11122013-002.SSF	223755.364	23154
722244.786	4294321.414	4331	12-Nov-13	11122013-002.SSF	223756.413	23155
722245.197	4294321.159	4641	12-Nov-13	11122013-002.SSF	223757.402	23156
722245.23	4294320.887	4718	12-Nov-13	11122013-002.SSF	223758.452	23157
722245.081	4294320.871	4904	12-Nov-13	11122013-002.SSF	223759.408	23158
722245.001	4294320.944	4551	12-Nov-13	11122013-002.SSF	223760.346	23159
722244.965	4294320.932	4817	12-Nov-13	11122013-002.SSF	223761.305	23160
722245.064	4294320.941	5132	12-Nov-13	11122013-002.SSF	223762.398	23161
722245.185	4294320.949	5467	12-Nov-13	11122013-002.SSF	223763.297	23162
722245.246	4294320.967	5497	12-Nov-13	11122013-002.SSF	223764.4	23163
722245.169	4294321.005	5440	12-Nov-13	11122013-002.SSF	223765.362	23164
722245.166	4294321.015	5235	12-Nov-13	11122013-002.SSF	223766.395	23165
722245.214	4294320.984	5089	12-Nov-13	11122013-002.SSF	223767.291	23166
722245.312	4294321.038	5533	12-Nov-13	11122013-002.SSF	223768.404	23167
722245.356	4294321.087	5197	12-Nov-13	11122013-002.SSF	223769.308	23168
722245.274	4294321.095	5001	12-Nov-13	11122013-002.SSF	223770.426	23169
722245.176	4294321.087	5280	12-Nov-13	11122013-002.SSF	223771.292	23170
722245.328	4294320.924	5475	12-Nov-13	11122013-002.SSF	223772.403	23171
722245.344	4294320.699	5404	12-Nov-13	11122013-002.SSF	223773.339	23172
722245.299	4294320.522	5042	12-Nov-13	11122013-002.SSF	223774.427	23173
722245.316	4294320.45	5169	12-Nov-13	11122013-002.SSF	223775.344	23174
722245.337	4294320.432	4820	12-Nov-13	11122013-002.SSF	223776.394	23175
722245.366	4294320.399	5163	12-Nov-13	11122013-002.SSF	223777.333	23176
722245.369	4294320.2	5364	12-Nov-13	11122013-002.SSF	223778.42	23177
722245.366	4294319.956	5500	12-Nov-13	11122013-002.SSF	223779.319	23178
722245.512	4294319.806	5673	12-Nov-13	11122013-002.SSF	223780.34	23179
722245.672	4294319.831	5734	12-Nov-13	11122013-002.SSF	223781.348	23180
722245.613	4294319.845	5430	12-Nov-13	11122013-002.SSF	223782.378	23181
722245.565	4294319.788	5357	12-Nov-13	11122013-002.SSF	223783.288	23182
722245.628	4294319.59	5331	12-Nov-13	11122013-002.SSF	223784.309	23183

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722245.951	4294319.402	5684	12-Nov-13	11122013-002.SSF	223786.346	23185
722246.077	4294319.326	5665	12-Nov-13	11122013-002.SSF	223787.342	23186
722246.088	4294319.262	5766	12-Nov-13	11122013-002.SSF	223788.387	23187
722246.121	4294319.113	5885	12-Nov-13	11122013-002.SSF	223790.407	23188
722246.163	4294319.084	5846	12-Nov-13	11122013-002.SSF	223791.361	23189
722246.196	4294319.006	5568	12-Nov-13	11122013-002.SSF	223792.38	23190
722246.229	4294318.958	5787	12-Nov-13	11122013-002.SSF	223793.385	23191
722246.221	4294318.937	5812	12-Nov-13	11122013-002.SSF	223794.458	23192
722246.327	4294318.938	5924	12-Nov-13	11122013-002.SSF	223795.462	23193
722246.582	4294318.929	5995	12-Nov-13	11122013-002.SSF	223796.4	23194
722246.882	4294318.814	6214	12-Nov-13	11122013-002.SSF	223797.359	23195
722247.146	4294318.697	6443	12-Nov-13	11122013-002.SSF	223798.421	23196
722247.159	4294318.637	7281	12-Nov-13	11122013-002.SSF	223799.454	23197
722247.139	4294318.666	7160	12-Nov-13	11122013-002.SSF	223800.43	23198
722247.182	4294318.77	7700	12-Nov-13	11122013-002.SSF	223801.395	23199
722247.197	4294318.817	8045	12-Nov-13	11122013-002.SSF	223802.426	23200
722247.226	4294318.826	6961	12-Nov-13	11122013-002.SSF	223803.34	23201
722247.257	4294318.825	7170	12-Nov-13	11122013-002.SSF	223804.377	23202
722247.348	4294318.875	7702	12-Nov-13	11122013-002.SSF	223805.329	23203
722247.53	4294318.925	6875	12-Nov-13	11122013-002.SSF	223806.445	23204
722247.612	4294318.756	7239	12-Nov-13	11122013-002.SSF	223807.376	23205
722247.886	4294318.467	7839	12-Nov-13	11122013-002.SSF	223808.482	23206
722248.277	4294318.292	7840	12-Nov-13	11122013-002.SSF	223809.399	23207
722248.553	4294318.16	7630	12-Nov-13	11122013-002.SSF	223810.343	23208
722248.734	4294318.064	8237	12-Nov-13	11122013-002.SSF	223811.322	23209
722249.167	4294318.102	7969	12-Nov-13	11122013-002.SSF	223812.431	23210
722249.559	4294318.204	6942	12-Nov-13	11122013-002.SSF	223813.393	23211
722249.619	4294318.232	7135	12-Nov-13	11122013-002.SSF	223814.385	23212
722249.477	4294318.173	7514	12-Nov-13	11122013-002.SSF	223815.338	23213
722249.448	4294318.093	7608	12-Nov-13	11122013-002.SSF	223816.38	23214
722249.511	4294317.999	8652	12-Nov-13	11122013-002.SSF	223817.311	23215
722249.546	4294317.972	7263	12-Nov-13	11122013-002.SSF	223818.365	23216
722249.434	4294317.966	6825	12-Nov-13	11122013-002.SSF	223819.363	23217
722249.185	4294317.617	7346	12-Nov-13	11122013-002.SSF	223820.445	23218
722249.169	4294317.041	7986	12-Nov-13	11122013-002.SSF	223821.399	23219
722249.442	4294316.517	8386	12-Nov-13	11122013-002.SSF	223822.385	23220
722249.907	4294316.328	8246	12-Nov-13	11122013-002.SSF	223823.411	23221
722250.352	4294316.302	8841	12-Nov-13	11122013-002.SSF	223824.425	23222
722250.766	4294316.263	9530	12-Nov-13	11122013-002.SSF	223825.344	23223
722251.341	4294316.274	7752	12-Nov-13	11122013-002.SSF	223826.398	23224
722251.789	4294316.205	6648	12-Nov-13	11122013-002.SSF	223827.339	23225
722252.193	4294316.064	7812	12-Nov-13	11122013-002.SSF	223828.348	23226
722252.647	4294315.931	7803	12-Nov-13	11122013-002.SSF	223829.252	23227
722253.354	4294315.703	7710	12-Nov-13	11122013-002.SSF	223830.341	23228
722254.077	4294315.474	9427	12-Nov-13	11122013-002.SSF	223831.3	23229
722254.896	4294315.367	9047	12-Nov-13	11122013-002.SSF	223832.374	23230

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722255.491	4294315.245	9251	12-Nov-13	11122013-002.SSF	223833.34	23231
722255.934	4294315.164	8343	12-Nov-13	11122013-002.SSF	223834.363	23232
722256.356	4294315.212	9585	12-Nov-13	11122013-002.SSF	223835.347	23233
722256.894	4294315.331	9566	12-Nov-13	11122013-002.SSF	223836.44	23234
722257.324	4294315.521	10041	12-Nov-13	11122013-002.SSF	223837.405	23235
722257.717	4294315.679	8570	12-Nov-13	11122013-002.SSF	223838.434	23236
722258.09	4294315.644	7632	12-Nov-13	11122013-002.SSF	223839.318	23237
722258.534	4294315.432	8628	12-Nov-13	11122013-002.SSF	223840.353	23238
722259.065	4294315.179	8457	12-Nov-13	11122013-002.SSF	223841.417	23239
722259.712	4294315.037	7604	12-Nov-13	11122013-002.SSF	223842.41	23240
722260.338	4294314.952	7811	12-Nov-13	11122013-002.SSF	223843.358	23241
722260.923	4294314.796	8582	12-Nov-13	11122013-002.SSF	223844.384	23242
722261.359	4294314.7	8175	12-Nov-13	11122013-002.SSF	223845.367	23243
722261.852	4294314.655	8343	12-Nov-13	11122013-002.SSF	223846.401	23244
722262.393	4294314.691	9316	12-Nov-13	11122013-002.SSF	223847.356	23245
722262.941	4294314.689	8809	12-Nov-13	11122013-002.SSF	223848.393	23246
722263.283	4294314.769	8442	12-Nov-13	11122013-002.SSF	223849.426	23247
722263.533	4294314.871	8560	12-Nov-13	11122013-002.SSF	223850.461	23248
722263.731	4294314.918	8080	12-Nov-13	11122013-002.SSF	223851.364	23249
722263.992	4294314.946	8770	12-Nov-13	11122013-002.SSF	223852.426	23250
722264.032	4294314.922	8072	12-Nov-13	11122013-002.SSF	223853.376	23251
722263.781	4294314.867	8828	12-Nov-13	11122013-002.SSF	223854.411	23252
722263.297	4294314.759	7937	12-Nov-13	11122013-002.SSF	223855.381	23253
722262.563	4294314.994	8584	12-Nov-13	11122013-002.SSF	223856.527	23254
722262.151	4294315.54	7666	12-Nov-13	11122013-002.SSF	223857.354	23255
722261.75	4294316.153	7976	12-Nov-13	11122013-002.SSF	223858.395	23256
722261.285	4294316.337	7424	12-Nov-13	11122013-002.SSF	223859.358	23257
722260.703	4294316.278	8156	12-Nov-13	11122013-002.SSF	223860.344	23258
722260.1	4294316.16	8759	12-Nov-13	11122013-002.SSF	223861.331	23259
722259.472	4294316.161	9089	12-Nov-13	11122013-002.SSF	223862.32	23260
722258.831	4294316.192	9112	12-Nov-13	11122013-002.SSF	223863.268	23261
722258.078	4294316.377	7558	12-Nov-13	11122013-002.SSF	223864.443	23262
722257.467	4294316.494	7499	12-Nov-13	11122013-002.SSF	223865.388	23263
722256.693	4294316.674	7815	12-Nov-13	11122013-002.SSF	223866.459	23264
722255.953	4294316.885	8283	12-Nov-13	11122013-002.SSF	223867.423	23265
722255.347	4294317.134	8100	12-Nov-13	11122013-002.SSF	223868.449	23266
722254.96	4294317.281	7155	12-Nov-13	11122013-002.SSF	223869.363	23267
722254.588	4294317.319	9198	12-Nov-13	11122013-002.SSF	223870.347	23268
722254.286	4294317.345	7849	12-Nov-13	11122013-002.SSF	223871.37	23269
722253.977	4294317.489	9252	12-Nov-13	11122013-002.SSF	223872.403	23270
722253.585	4294317.601	7863	12-Nov-13	11122013-002.SSF	223873.422	23271
722253.196	4294317.629	8505	12-Nov-13	11122013-002.SSF	223874.351	23272
722252.702	4294317.696	7886	12-Nov-13	11122013-002.SSF	223875.346	23273
722252.024	4294317.774	7491	12-Nov-13	11122013-002.SSF	223876.36	23274
722251.346	4294318.021	7963	12-Nov-13	11122013-002.SSF	223877.342	23275
722250.767	4294318.311	7780	12-Nov-13	11122013-002.SSF	223878.339	23276
722250.314	4294318.463	8275	12-Nov-13	11122013-002.SSF	223879.374	23277

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722249.932	4294318.435	8518	12-Nov-13	11122013-002.SSF	223880.363	23278
722249.516	4294318.359	7799	12-Nov-13	11122013-002.SSF	223881.324	23279
722249.104	4294318.307	7680	12-Nov-13	11122013-002.SSF	223882.384	23280
722248.719	4294318.17	7980	12-Nov-13	11122013-002.SSF	223883.285	23281
722248.158	4294318.073	7755	12-Nov-13	11122013-002.SSF	223884.34	23282
722247.666	4294318.039	6798	12-Nov-13	11122013-002.SSF	223885.309	23283
722247.25	4294318.318	7849	12-Nov-13	11122013-002.SSF	223886.423	23284
722246.828	4294318.542	7812	12-Nov-13	11122013-002.SSF	223887.453	23285
722246.867	4294318.555	6573	12-Nov-13	11122013-002.SSF	223888.419	23286
722247.526	4294318.479	7373	12-Nov-13	11122013-002.SSF	223889.425	23287
722248.353	4294318.383	8023	12-Nov-13	11122013-002.SSF	223890.448	23288
722249.071	4294318.554	6896	12-Nov-13	11122013-002.SSF	223891.435	23289
722249.722	4294318.832	6884	12-Nov-13	11122013-002.SSF	223892.356	23290
722250.397	4294319.244	6701	12-Nov-13	11122013-002.SSF	223893.403	23291
722251.049	4294319.475	6685	12-Nov-13	11122013-002.SSF	223894.442	23292
722251.582	4294319.592	7122	12-Nov-13	11122013-002.SSF	223895.347	23293
722252.267	4294319.581	7790	12-Nov-13	11122013-002.SSF	223896.41	23294
722252.873	4294319.574	6717	12-Nov-13	11122013-002.SSF	223897.315	23295
722253.499	4294319.516	8189	12-Nov-13	11122013-002.SSF	223898.368	23296
722253.903	4294319.49	8017	12-Nov-13	11122013-002.SSF	223899.36	23297
722254.138	4294319.335	9144	12-Nov-13	11122013-002.SSF	223900.295	23298
722254.598	4294319.093	7686	12-Nov-13	11122013-002.SSF	223901.29	23299
722255.288	4294318.931	7291	12-Nov-13	11122013-002.SSF	223902.341	23300
722255.856	4294318.908	7792	12-Nov-13	11122013-002.SSF	223903.267	23301
722256.532	4294319.044	8188	12-Nov-13	11122013-002.SSF	223904.451	23302
722257.046	4294319.15	8197	12-Nov-13	11122013-002.SSF	223905.461	23303
722257.508	4294319.092	7749	12-Nov-13	11122013-002.SSF	223906.367	23304
722257.959	4294318.884	7187	12-Nov-13	11122013-002.SSF	223907.332	23305
722258.157	4294318.5	8156	12-Nov-13	11122013-002.SSF	223908.38	23306
722258.406	4294318.339	8459	12-Nov-13	11122013-002.SSF	223909.36	23307
722258.775	4294318.265	8835	12-Nov-13	11122013-002.SSF	223910.397	23308
722259.034	4294318.335	8178	12-Nov-13	11122013-002.SSF	223911.403	23309
722259.311	4294318.282	9094	12-Nov-13	11122013-002.SSF	223912.383	23310
722259.616	4294318.154	8693	12-Nov-13	11122013-002.SSF	223913.347	23311
722259.712	4294317.897	7723	12-Nov-13	11122013-002.SSF	223914.304	23312
722259.755	4294317.615	8021	12-Nov-13	11122013-002.SSF	223915.381	23313
722259.991	4294317.65	7465	12-Nov-13	11122013-002.SSF	223916.379	23314
722260.187	4294317.598	7296	12-Nov-13	11122013-002.SSF	223917.317	23315
722260.62	4294317.6	8094	12-Nov-13	11122013-002.SSF	223918.361	23316
722261.364	4294317.577	8713	12-Nov-13	11122013-002.SSF	223919.275	23317
722262.22	4294317.55	8088	12-Nov-13	11122013-002.SSF	223920.361	23318
722262.504	4294317.312	8082	12-Nov-13	11122013-002.SSF	223921.396	23319
722262.611	4294317.096	8440	12-Nov-13	11122013-002.SSF	223922.353	23320
722262.821	4294316.988	9340	12-Nov-13	11122013-002.SSF	223923.361	23321
722262.963	4294316.696	8785	12-Nov-13	11122013-002.SSF	223924.357	23322
722263.138	4294316.455	8376	12-Nov-13	11122013-002.SSF	223925.392	23323
722263.347	4294316.304	8004	12-Nov-13	11122013-002.SSF	223926.374	23324

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722263.698	4294316.16	8571	12-Nov-13	11122013-002.SSF	223927.375	23325
722264.159	4294315.953	8652	12-Nov-13	11122013-002.SSF	223928.331	23326
722264.543	4294315.661	8733	12-Nov-13	11122013-002.SSF	223929.319	23327
722264.699	4294315.472	8363	12-Nov-13	11122013-002.SSF	223930.356	23328
722264.789	4294315.45	8270	12-Nov-13	11122013-002.SSF	223931.395	23329
722264.905	4294315.431	8427	12-Nov-13	11122013-002.SSF	223932.354	23330
722265.118	4294315.423	7507	12-Nov-13	11122013-002.SSF	223933.385	23331
722265.23	4294315.406	7756	12-Nov-13	11122013-002.SSF	223934.332	23332
722265.196	4294315.317	8659	12-Nov-13	11122013-002.SSF	223935.352	23333
722265.322	4294315.196	8914	12-Nov-13	11122013-002.SSF	223936.322	23334
722265.32	4294315.089	8168	12-Nov-13	11122013-002.SSF	223937.36	23335
722264.525	4294315.028	8192	12-Nov-13	11122013-002.SSF	223938.363	23336
722263.918	4294314.951	8498	12-Nov-13	11122013-002.SSF	223939.309	23337
722263.584	4294314.522	8184	12-Nov-13	11122013-002.SSF	223940.35	23338
722263.419	4294313.987	8286	12-Nov-13	11122013-002.SSF	223941.249	23339
722263.148	4294313.646	6301	12-Nov-13	11122013-002.SSF	223942.276	23340
722262.958	4294313.399	6653	12-Nov-13	11122013-002.SSF	223943.331	23341
722262.947	4294313.271	7783	12-Nov-13	11122013-002.SSF	223944.311	23342
722263.004	4294313.289	8426	12-Nov-13	11122013-002.SSF	223945.369	23343
722263.057	4294313.328	8526	12-Nov-13	11122013-002.SSF	223946.354	23344
722263.106	4294313.336	7861	12-Nov-13	11122013-002.SSF	223947.332	23345
722263.133	4294313.3	8415	12-Nov-13	11122013-002.SSF	223948.377	23346
722263.148	4294313.253	8043	12-Nov-13	11122013-002.SSF	223949.311	23347
722263.179	4294313.237	8281	12-Nov-13	11122013-002.SSF	223950.319	23348
722263.22	4294313.242	9000	12-Nov-13	11122013-002.SSF	223951.304	23349
722263.277	4294313.211	8490	12-Nov-13	11122013-002.SSF	223952.328	23350
722263.269	4294313.091	8092	12-Nov-13	11122013-002.SSF	223953.291	23351
722263.193	4294312.873	8293	12-Nov-13	11122013-002.SSF	223954.293	23352
722263.211	4294312.808	8823	12-Nov-13	11122013-002.SSF	223955.322	23353
722263.426	4294313.015	7815	12-Nov-13	11122013-002.SSF	223956.401	23354
722263.528	4294313.126	8523	12-Nov-13	11122013-002.SSF	223957.286	23355
722263.457	4294313.135	7261	12-Nov-13	11122013-002.SSF	223958.379	23356
722263.4	4294313.133	7335	12-Nov-13	11122013-002.SSF	223959.34	23357
722263.358	4294313.114	8043	12-Nov-13	11122013-002.SSF	223960.377	23358
722263.354	4294313.102	7982	12-Nov-13	11122013-002.SSF	223961.318	23359
722263.395	4294313.117	6832	12-Nov-13	11122013-002.SSF	223962.336	23360
722263.412	4294313.099	7168	12-Nov-13	11122013-002.SSF	223963.352	23361
722263.43	4294313.046	8272	12-Nov-13	11122013-002.SSF	223964.354	23362
722263.433	4294312.992	8368	12-Nov-13	11122013-002.SSF	223965.335	23363
722263.44	4294312.941	8092	12-Nov-13	11122013-002.SSF	223966.319	23364
722263.45	4294312.901	6973	12-Nov-13	11122013-002.SSF	223967.301	23365
722263.436	4294312.899	7623	12-Nov-13	11122013-002.SSF	223968.368	23366
722263.389	4294312.948	8625	12-Nov-13	11122013-002.SSF	223969.275	23367
722263.279	4294312.881	7766	12-Nov-13	11122013-002.SSF	223970.389	23368
722263.101	4294312.712	7251	12-Nov-13	11122013-002.SSF	223971.389	23369
722262.806	4294312.629	7663	12-Nov-13	11122013-002.SSF	223972.365	23370
722262.352	4294312.593	8245	12-Nov-13	11122013-002.SSF	223973.353	23371

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722261.633	4294312.609	8031	12-Nov-13	11122013-002.SSF	223974.416	23372
722260.886	4294312.671	7587	12-Nov-13	11122013-002.SSF	223975.341	23373
722260.139	4294312.887	7987	12-Nov-13	11122013-002.SSF	223976.307	23374
722259.373	4294313.013	8626	12-Nov-13	11122013-002.SSF	223977.381	23375
722258.738	4294313.077	7406	12-Nov-13	11122013-002.SSF	223978.387	23376
722258.22	4294313.161	7461	12-Nov-13	11122013-002.SSF	223979.311	23377
722257.54	4294313.183	7595	12-Nov-13	11122013-002.SSF	223980.351	23378
722256.808	4294313.431	7568	12-Nov-13	11122013-002.SSF	223981.378	23379
722256.12	4294313.629	8252	12-Nov-13	11122013-002.SSF	223982.403	23380
722255.491	4294313.689	8003	12-Nov-13	11122013-002.SSF	223983.398	23381
722254.995	4294313.67	8060	12-Nov-13	11122013-002.SSF	223984.339	23382
722254.593	4294313.674	8645	12-Nov-13	11122013-002.SSF	223985.33	23383
722254.119	4294313.717	7861	12-Nov-13	11122013-002.SSF	223986.38	23384
722253.621	4294313.659	7335	12-Nov-13	11122013-002.SSF	223987.288	23385
722253.005	4294313.78	7353	12-Nov-13	11122013-002.SSF	223988.375	23386
722252.534	4294313.883	8348	12-Nov-13	11122013-002.SSF	223989.304	23387
722252.143	4294314.031	8537	12-Nov-13	11122013-002.SSF	223990.303	23388
722251.708	4294314.107	7564	12-Nov-13	11122013-002.SSF	223991.346	23389
722251.242	4294314.11	6841	12-Nov-13	11122013-002.SSF	223992.426	23390
722250.881	4294314.063	7140	12-Nov-13	11122013-002.SSF	223993.303	23391
722250.561	4294314.138	7155	12-Nov-13	11122013-002.SSF	223994.313	23392
722250.16	4294314.215	7158	12-Nov-13	11122013-002.SSF	223995.338	23393
722249.605	4294314.397	7969	12-Nov-13	11122013-002.SSF	223996.369	23394
722249.05	4294314.565	7182	12-Nov-13	11122013-002.SSF	223997.326	23395
722248.52	4294314.632	7945	12-Nov-13	11122013-002.SSF	223998.376	23396
722248.018	4294314.597	7686	12-Nov-13	11122013-002.SSF	223999.36	23397
722247.328	4294314.836	8551	12-Nov-13	11122013-002.SSF	224000.353	23398
722246.512	4294315.253	8167	12-Nov-13	11122013-002.SSF	224001.331	23399
722245.89	4294315.885	7172	12-Nov-13	11122013-002.SSF	224002.343	23400
722245.703	4294316.591	6563	12-Nov-13	11122013-002.SSF	224003.352	23401
722245.515	4294317.086	5821	12-Nov-13	11122013-002.SSF	224004.329	23402
722244.892	4294317.354	6131	12-Nov-13	11122013-002.SSF	224005.354	23403
722244.104	4294317.948	5524	12-Nov-13	11122013-002.SSF	224006.365	23404
722243.399	4294318.912	5552	12-Nov-13	11122013-002.SSF	224007.337	23405
722242.624	4294319.96	5748	12-Nov-13	11122013-002.SSF	224008.381	23406
722241.885	4294320.696	5513	12-Nov-13	11122013-002.SSF	224009.418	23407
722241.52	4294321.16	5051	12-Nov-13	11122013-002.SSF	224010.345	23408
722241.471	4294321.571	4446	12-Nov-13	11122013-002.SSF	224011.367	23409
722241.464	4294321.675	4961	12-Nov-13	11122013-002.SSF	224012.337	23410
722241.321	4294321.526	4688	12-Nov-13	11122013-002.SSF	224013.35	23411
722240.995	4294321.291	4962	12-Nov-13	11122013-002.SSF	224014.393	23412
722240.595	4294320.906	4846	12-Nov-13	11122013-002.SSF	224015.294	23413
722240.12	4294320.551	4541	12-Nov-13	11122013-002.SSF	224016.384	23414
722239.999	4294320.534	4691	12-Nov-13	11122013-002.SSF	224017.352	23415
722240.064	4294320.636	4889	12-Nov-13	11122013-002.SSF	224018.385	23416
722240.047	4294320.703	4647	12-Nov-13	11122013-002.SSF	224019.339	23417
722239.918	4294320.848	4624	12-Nov-13	11122013-002.SSF	224020.344	23418

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722239.761	4294321.141	4938	12-Nov-13	11122013-002.SSF	224021.228	23419
722239.943	4294321.506	4882	12-Nov-13	11122013-002.SSF	224022.289	23420
722240.25	4294321.626	4839	12-Nov-13	11122013-002.SSF	224023.33	23421
722240.434	4294321.515	4799	12-Nov-13	11122013-002.SSF	224024.352	23422
722240.496	4294321.689	5069	12-Nov-13	11122013-002.SSF	224025.273	23423
722240.167	4294322.285	5521	12-Nov-13	11122013-002.SSF	224026.278	23424
722239.26	4294322.916	5040	12-Nov-13	11122013-002.SSF	224027.302	23425
722238.162	4294323.16	4763	12-Nov-13	11122013-002.SSF	224028.357	23426
722237.311	4294322.921	4862	12-Nov-13	11122013-002.SSF	224029.294	23427
722236.617	4294322.263	4745	12-Nov-13	11122013-002.SSF	224030.404	23428
722236.044	4294321.47	4814	12-Nov-13	11122013-002.SSF	224031.366	23429
722235.339	4294320.703	4305	12-Nov-13	11122013-002.SSF	224032.292	23430
722234.733	4294319.99	4747	12-Nov-13	11122013-002.SSF	224033.336	23431
722234.657	4294319.363	4882	12-Nov-13	11122013-002.SSF	224034.307	23432
722234.759	4294318.705	4794	12-Nov-13	11122013-002.SSF	224035.273	23433
722234.59	4294318.097	5006	12-Nov-13	11122013-002.SSF	224036.352	23434
722234.465	4294317.891	4961	12-Nov-13	11122013-002.SSF	224037.292	23435
722234.5	4294317.895	4793	12-Nov-13	11122013-002.SSF	224038.323	23436
722234.533	4294317.876	4976	12-Nov-13	11122013-002.SSF	224039.306	23437
722234.602	4294317.793	5326	12-Nov-13	11122013-002.SSF	224040.37	23438
722234.671	4294317.717	5253	12-Nov-13	11122013-002.SSF	224041.407	23439
722234.703	4294317.674	5287	12-Nov-13	11122013-002.SSF	224042.415	23440
722234.729	4294317.642	5411	12-Nov-13	11122013-002.SSF	224043.373	23441
722234.778	4294317.613	5414	12-Nov-13	11122013-002.SSF	224044.414	23442
722234.809	4294317.598	4875	12-Nov-13	11122013-002.SSF	224045.343	23443
722234.797	4294317.586	5150	12-Nov-13	11122013-002.SSF	224046.32	23444
722234.745	4294317.585	5019	12-Nov-13	11122013-002.SSF	224047.351	23445
722234.713	4294317.588	5291	12-Nov-13	11122013-002.SSF	224048.351	23446
722234.736	4294317.581	5226	12-Nov-13	11122013-002.SSF	224049.363	23447
722234.776	4294317.557	5234	12-Nov-13	11122013-002.SSF	224050.326	23448
722234.807	4294317.53	5299	12-Nov-13	11122013-002.SSF	224051.249	23449
722234.817	4294317.502	5283	12-Nov-13	11122013-002.SSF	224052.289	23450
722234.819	4294317.501	5267	12-Nov-13	11122013-002.SSF	224053.29	23451
722234.802	4294317.511	4905	12-Nov-13	11122013-002.SSF	224054.315	23452
722234.778	4294317.513	5136	12-Nov-13	11122013-002.SSF	224055.25	23453
722234.792	4294317.508	4929	12-Nov-13	11122013-002.SSF	224056.341	23454
722234.805	4294317.535	5217	12-Nov-13	11122013-002.SSF	224057.267	23455
722234.813	4294317.653	5372	12-Nov-13	11122013-002.SSF	224058.273	23456
722234.925	4294317.733	5062	12-Nov-13	11122013-002.SSF	224059.217	23457
722235.027	4294317.73	5022	12-Nov-13	11122013-002.SSF	224060.346	23458
722235.001	4294317.699	5225	12-Nov-13	11122013-002.SSF	224061.283	23459
722234.908	4294317.784	5084	12-Nov-13	11122013-002.SSF	224062.312	23460
722234.797	4294317.985	5297	12-Nov-13	11122013-002.SSF	224063.272	23461
722234.725	4294318.072	5312	12-Nov-13	11122013-002.SSF	224064.297	23462
722234.794	4294318.005	5613	12-Nov-13	11122013-002.SSF	224065.289	23463
722234.805	4294317.919	5452	12-Nov-13	11122013-002.SSF	224066.313	23464
722234.612	4294317.785	5249	12-Nov-13	11122013-002.SSF	224067.292	23465

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722234.574	4294317.729	4999	12-Nov-13	11122013-002.SSF	224069.287	23467
722234.73	4294317.748	5235	12-Nov-13	11122013-002.SSF	224070.352	23468
722234.767	4294317.655	5314	12-Nov-13	11122013-002.SSF	224071.309	23469
722234.692	4294317.566	5374	12-Nov-13	11122013-002.SSF	224072.345	23470
722234.664	4294317.577	5640	12-Nov-13	11122013-002.SSF	224073.284	23471
722234.657	4294317.611	5677	12-Nov-13	11122013-002.SSF	224074.366	23472
722234.632	4294317.632	5826	12-Nov-13	11122013-002.SSF	224075.344	23473
722234.597	4294317.648	5430	12-Nov-13	11122013-002.SSF	224076.377	23474
722234.579	4294317.659	5274	12-Nov-13	11122013-002.SSF	224077.315	23475
722234.575	4294317.634	5359	12-Nov-13	11122013-002.SSF	224078.299	23476
722234.606	4294317.564	5489	12-Nov-13	11122013-002.SSF	224079.309	23477
722234.637	4294317.588	5502	12-Nov-13	11122013-002.SSF	224080.324	23478
722234.604	4294317.693	5390	12-Nov-13	11122013-002.SSF	224081.31	23479
722234.581	4294317.739	5522	12-Nov-13	11122013-002.SSF	224082.361	23480
722234.593	4294317.745	5551	12-Nov-13	11122013-002.SSF	224083.277	23481
722234.599	4294317.744	5470	12-Nov-13	11122013-002.SSF	224084.338	23482
722234.6	4294317.754	5087	12-Nov-13	11122013-002.SSF	224085.288	23483
722234.584	4294317.763	4908	12-Nov-13	11122013-002.SSF	224086.319	23484
722234.573	4294317.779	5011	12-Nov-13	11122013-002.SSF	224087.288	23485
722234.553	4294317.792	5196	12-Nov-13	11122013-002.SSF	224088.25	23486
722234.536	4294317.788	5285	12-Nov-13	11122013-002.SSF	224089.31	23487
722234.548	4294317.779	5485	12-Nov-13	11122013-002.SSF	224090.358	23488
722234.568	4294317.757	5328	12-Nov-13	11122013-002.SSF	224091.289	23489
722234.556	4294317.716	5344	12-Nov-13	11122013-002.SSF	224092.331	23490
722234.527	4294317.686	5098	12-Nov-13	11122013-002.SSF	224093.321	23491
722234.515	4294317.671	5560	12-Nov-13	11122013-002.SSF	224094.271	23492
722234.522	4294317.666	5385	12-Nov-13	11122013-002.SSF	224095.359	23493
722234.493	4294317.667	5009	12-Nov-13	11122013-002.SSF	224096.424	23494
722234.455	4294317.664	5030	12-Nov-13	11122013-002.SSF	224097.369	23495
722234.46	4294317.671	5064	12-Nov-13	11122013-002.SSF	224098.444	23496
722234.471	4294317.685	5879	12-Nov-13	11122013-002.SSF	224099.325	23497
722234.473	4294317.706	5632	12-Nov-13	11122013-002.SSF	224100.357	23498
722234.482	4294317.733	5598	12-Nov-13	11122013-002.SSF	224101.402	23499
722234.528	4294317.828	5421	12-Nov-13	11122013-002.SSF	224102.365	23500
722234.593	4294317.967	5532	12-Nov-13	11122013-002.SSF	224103.408	23501
722234.57	4294317.956	5159	12-Nov-13	11122013-002.SSF	224104.356	23502
722234.532	4294317.916	5099	12-Nov-13	11122013-002.SSF	224105.267	23503
722234.531	4294317.944	4841	12-Nov-13	11122013-002.SSF	224106.423	23504
722234.502	4294317.962	5198	12-Nov-13	11122013-002.SSF	224107.339	23505
722234.468	4294317.922	4986	12-Nov-13	11122013-002.SSF	224108.39	23506
722234.462	4294317.857	5107	12-Nov-13	11122013-002.SSF	224109.3	23507
722234.471	4294317.817	5385	12-Nov-13	11122013-002.SSF	224110.379	23508
722234.476	4294317.797	5061	12-Nov-13	11122013-002.SSF	224111.298	23509
722234.459	4294317.757	5277	12-Nov-13	11122013-002.SSF	224112.304	23510
722234.437	4294317.68	5293	12-Nov-13	11122013-002.SSF	224113.3	23511
722234.379	4294317.565	5625	12-Nov-13	11122013-002.SSF	224114.241	23512

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722234.164	4294317.356	5168	12-Nov-13	11122013-002.SSF	224116.404	23514
722234.03	4294317.353	5217	12-Nov-13	11122013-002.SSF	224117.401	23515
722233.912	4294317.441	5379	12-Nov-13	11122013-002.SSF	224118.405	23516
722233.83	4294317.415	5171	12-Nov-13	11122013-002.SSF	224119.377	23517
722233.787	4294317.311	4588	12-Nov-13	11122013-002.SSF	224120.338	23518
722233.891	4294317.395	5056	12-Nov-13	11122013-002.SSF	224121.229	23519
722234.068	4294317.509	5341	12-Nov-13	11122013-002.SSF	224122.358	23520
722234.215	4294317.587	5446	12-Nov-13	11122013-002.SSF	224123.295	23521
722234.268	4294317.556	4958	12-Nov-13	11122013-002.SSF	224124.311	23522
722234.226	4294317.46	5256	12-Nov-13	11122013-002.SSF	224125.323	23523
722234.204	4294317.419	5401	12-Nov-13	11122013-002.SSF	224126.333	23524
722234.198	4294317.437	4966	12-Nov-13	11122013-002.SSF	224127.338	23525
722234.176	4294317.453	5216	12-Nov-13	11122013-002.SSF	224128.367	23526
722234.157	4294317.445	5184	12-Nov-13	11122013-002.SSF	224129.299	23527
722234.126	4294317.416	4918	12-Nov-13	11122013-002.SSF	224130.389	23528
722234.12	4294317.406	5399	12-Nov-13	11122013-002.SSF	224131.295	23529
722234.103	4294317.37	5347	12-Nov-13	11122013-002.SSF	224132.36	23530
722234.101	4294317.343	5100	12-Nov-13	11122013-002.SSF	224133.357	23531
722234.111	4294317.318	4488	12-Nov-13	11122013-002.SSF	224134.348	23532
722234.126	4294317.302	4647	12-Nov-13	11122013-002.SSF	224135.311	23533
722234.2	4294317.397	4601	12-Nov-13	11122013-002.SSF	224136.379	23534
722234.358	4294317.641	4913	12-Nov-13	11122013-002.SSF	224137.309	23535
722234.608	4294317.863	5081	12-Nov-13	11122013-002.SSF	224138.361	23536
722234.92	4294317.915	5310	12-Nov-13	11122013-002.SSF	224139.378	23537
722235.201	4294317.909	5139	12-Nov-13	11122013-002.SSF	224140.3	23538
722235.319	4294317.889	5358	12-Nov-13	11122013-002.SSF	224141.36	23539
722235.34	4294317.9	5294	12-Nov-13	11122013-002.SSF	224142.41	23540
722235.365	4294317.919	5512	12-Nov-13	11122013-002.SSF	224143.296	23541
722235.335	4294317.917	5418	12-Nov-13	11122013-002.SSF	224144.407	23542
722235.314	4294317.931	5785	12-Nov-13	11122013-002.SSF	224145.312	23543
722235.523	4294317.98	5414	12-Nov-13	11122013-002.SSF	224146.377	23544
722235.782	4294317.957	5505	12-Nov-13	11122013-002.SSF	224147.375	23545
722235.951	4294317.999	5879	12-Nov-13	11122013-002.SSF	224148.367	23546
722235.886	4294318.066	5309	12-Nov-13	11122013-002.SSF	224149.398	23547
722235.819	4294318.032	5589	12-Nov-13	11122013-002.SSF	224150.312	23548
722235.992	4294317.947	5873	12-Nov-13	11122013-002.SSF	224151.385	23549
722236.105	4294317.881	5779	12-Nov-13	11122013-002.SSF	224152.373	23550
722236.104	4294317.876	5673	12-Nov-13	11122013-002.SSF	224153.302	23551
722235.988	4294317.954	5373	12-Nov-13	11122013-002.SSF	224154.403	23552
722235.923	4294318.002	5227	12-Nov-13	11122013-002.SSF	224155.32	23553
722235.926	4294317.991	5145	12-Nov-13	11122013-002.SSF	224156.308	23554
722235.887	4294317.963	4792	12-Nov-13	11122013-002.SSF	224157.27	23555
722235.81	4294317.97	4780	12-Nov-13	11122013-002.SSF	224158.376	23556
722235.764	4294317.997	5066	12-Nov-13	11122013-002.SSF	224159.324	23557
722235.762	4294318.008	5227	12-Nov-13	11122013-002.SSF	224160.29	23558
722235.777	4294318.005	4807	12-Nov-13	11122013-002.SSF	224161.321	23559

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722235.787	4294317.952	5701	12-Nov-13	11122013-002.SSF	224164.349	23562
722235.796	4294317.991	5652	12-Nov-13	11122013-002.SSF	224165.301	23563
722235.833	4294318.084	5902	12-Nov-13	11122013-002.SSF	224166.332	23564
722235.908	4294318.128	5157	12-Nov-13	11122013-002.SSF	224167.34	23565
722235.892	4294318.103	4948	12-Nov-13	11122013-002.SSF	224168.343	23566
722235.923	4294317.989	5198	12-Nov-13	11122013-002.SSF	224169.304	23567
722236.11	4294317.719	4829	12-Nov-13	11122013-002.SSF	224170.359	23568
722236.278	4294317.675	5048	12-Nov-13	11122013-002.SSF	224171.287	23569
722236.36	4294317.748	5112	12-Nov-13	11122013-002.SSF	224172.367	23570
722236.292	4294317.87	5140	12-Nov-13	11122013-002.SSF	224173.334	23571
722236.285	4294317.921	5201	12-Nov-13	11122013-002.SSF	224174.367	23572
722236.307	4294317.844	5265	12-Nov-13	11122013-002.SSF	224175.215	23573
722236.303	4294317.807	5474	12-Nov-13	11122013-002.SSF	224176.271	23574
722236.307	4294317.833	5344	12-Nov-13	11122013-002.SSF	224177.206	23575
722236.27	4294317.858	5601	12-Nov-13	11122013-002.SSF	224178.356	23576
722236.275	4294317.854	5670	12-Nov-13	11122013-002.SSF	224179.281	23577
722236.306	4294317.797	5522	12-Nov-13	11122013-002.SSF	224180.283	23578
722236.197	4294317.82	5213	12-Nov-13	11122013-002.SSF	224181.367	23579
722236.065	4294317.839	5355	12-Nov-13	11122013-002.SSF	224182.354	23580
722235.98	4294317.817	5322	12-Nov-13	11122013-002.SSF	224183.346	23581
722235.967	4294317.869	5386	12-Nov-13	11122013-002.SSF	224184.28	23582
722236.021	4294317.999	5565	12-Nov-13	11122013-002.SSF	224185.265	23583
722236.094	4294318.031	5755	12-Nov-13	11122013-002.SSF	224186.398	23584
722236.185	4294317.909	5449	12-Nov-13	11122013-002.SSF	224187.321	23585
722236.206	4294317.902	5525	12-Nov-13	11122013-002.SSF	224188.383	23586
722236.071	4294318.167	5358	12-Nov-13	11122013-002.SSF	224189.346	23587
722235.951	4294318.449	5361	12-Nov-13	11122013-002.SSF	224190.363	23588
722235.847	4294318.559	5213	12-Nov-13	11122013-002.SSF	224191.355	23589
722235.809	4294318.598	5145	12-Nov-13	11122013-002.SSF	224192.369	23590
722235.819	4294318.634	5144	12-Nov-13	11122013-002.SSF	224193.305	23591
722235.819	4294318.651	4821	12-Nov-13	11122013-002.SSF	224194.354	23592
722235.796	4294318.642	4984	12-Nov-13	11122013-002.SSF	224195.297	23593
722235.811	4294318.611	5031	12-Nov-13	11122013-002.SSF	224196.339	23594
722235.963	4294318.572	4907	12-Nov-13	11122013-002.SSF	224197.296	23595
722236.041	4294318.548	4980	12-Nov-13	11122013-002.SSF	224198.32	23596
722235.947	4294318.578	5186	12-Nov-13	11122013-002.SSF	224199.253	23597
722235.849	4294318.624	5145	12-Nov-13	11122013-002.SSF	224200.332	23598
722235.803	4294318.649	5144	12-Nov-13	11122013-002.SSF	224201.272	23599
722235.757	4294318.664	4978	12-Nov-13	11122013-002.SSF	224202.299	23600
722235.743	4294318.674	5208	12-Nov-13	11122013-002.SSF	224203.197	23601
722235.809	4294318.708	5194	12-Nov-13	11122013-002.SSF	224204.256	23602
722236.088	4294318.696	4999	12-Nov-13	11122013-002.SSF	224205.24	23603
722236.314	4294318.597	4859	12-Nov-13	11122013-002.SSF	224206.262	23604
722236.341	4294318.477	5103	12-Nov-13	11122013-002.SSF	224207.174	23605
722236.51	4294318.438	4850	12-Nov-13	11122013-002.SSF	224208.293	23606

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722236.647	4294318.473	5045	12-Nov-13	11122013-002.SSF	224211.314	23609
722236.762	4294318.319	5335	12-Nov-13	11122013-002.SSF	224212.36	23610
722236.712	4294318.16	4876	12-Nov-13	11122013-002.SSF	224213.209	23611
722236.649	4294318.145	4437	12-Nov-13	11122013-002.SSF	224214.446	23612
722236.786	4294318.28	4543	12-Nov-13	11122013-002.SSF	224215.28	23613
722236.932	4294318.44	4393	12-Nov-13	11122013-002.SSF	224216.363	23614
722236.869	4294318.429	4661	12-Nov-13	11122013-002.SSF	224217.31	23615
722236.704	4294318.415	4849	12-Nov-13	11122013-002.SSF	224218.411	23616
722236.698	4294318.466	5165	12-Nov-13	11122013-002.SSF	224219.283	23617
722236.828	4294318.454	4945	12-Nov-13	11122013-002.SSF	224220.351	23618
722236.923	4294318.418	4882	12-Nov-13	11122013-002.SSF	224221.357	23619
722236.964	4294318.43	4703	12-Nov-13	11122013-002.SSF	224222.36	23620
722237.016	4294318.446	4460	12-Nov-13	11122013-002.SSF	224223.235	23621
722237.001	4294318.446	4354	12-Nov-13	11122013-002.SSF	224224.321	23622
722236.978	4294318.459	4609	12-Nov-13	11122013-002.SSF	224225.285	23623
722236.947	4294318.423	4362	12-Nov-13	11122013-002.SSF	224226.301	23624
722236.978	4294318.413	4539	12-Nov-13	11122013-002.SSF	224227.269	23625
722237.045	4294318.459	4293	12-Nov-13	11122013-002.SSF	224228.24	23626
722237.019	4294318.485	4440	12-Nov-13	11122013-002.SSF	224229.157	23627
722237.005	4294318.452	4260	12-Nov-13	11122013-002.SSF	224230.358	23628
722237.021	4294318.385	4496	12-Nov-13	11122013-002.SSF	224231.329	23629
722237.014	4294318.338	4141	12-Nov-13	11122013-002.SSF	224232.367	23630
722236.964	4294318.317	4407	12-Nov-13	11122013-002.SSF	224233.209	23631
722236.958	4294318.309	4016	12-Nov-13	11122013-002.SSF	224234.332	23632
722236.95	4294318.306	4490	12-Nov-13	11122013-002.SSF	224235.281	23633
722236.979	4294318.323	4490	12-Nov-13	11122013-002.SSF	224236.413	23634
722236.976	4294318.332	4851	12-Nov-13	11122013-002.SSF	224237.155	23635
722236.939	4294318.34	4588	12-Nov-13	11122013-002.SSF	224238.24	23636
722236.964	4294318.355	5078	12-Nov-13	11122013-002.SSF	224239.211	23637
722236.984	4294318.373	4769	12-Nov-13	11122013-002.SSF	224240.235	23638
722236.962	4294318.369	4790	12-Nov-13	11122013-002.SSF	224241.189	23639
722246.551	4294308.888	3745	12-Nov-13	11122013-003.SSF	238463.504	23640
722246.551	4294308.887	3937	12-Nov-13	11122013-003.SSF	238464.54	23641
722246.558	4294308.882	3974	12-Nov-13	11122013-003.SSF	238465.41	23642
722246.557	4294308.861	3883	12-Nov-13	11122013-003.SSF	238466.37	23643
722246.53	4294308.823	4167	12-Nov-13	11122013-003.SSF	238467.418	23644
722246.515	4294308.792	4129	12-Nov-13	11122013-003.SSF	238468.318	23645
722246.499	4294308.75	3775	12-Nov-13	11122013-003.SSF	238469.415	23646
722246.49	4294308.722	3825	12-Nov-13	11122013-003.SSF	238470.445	23647
722246.483	4294308.699	3713	12-Nov-13	11122013-003.SSF	238471.513	23648
722246.481	4294308.682	3862	12-Nov-13	11122013-003.SSF	238472.445	23649
722246.477	4294308.663	4178	12-Nov-13	11122013-003.SSF	238473.437	23650
722246.437	4294308.713	4398	12-Nov-13	11122013-003.SSF	238474.356	23651
722182.199	4294412.942	8262	12-Nov-13	11122013-003.SSF	239092.191	23652
722182.168	4294412.935	9205	12-Nov-13	11122013-003.SSF	239093.183	23653

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722182.053	4294412.905	8571	12-Nov-13	11122013-003.SSF	239094.244	23654
722181.808	4294412.813	7212	12-Nov-13	11122013-003.SSF	239095.265	23655
722181.606	4294412.748	7893	12-Nov-13	11122013-003.SSF	239096.201	23656
722181.443	4294412.709	9203	12-Nov-13	11122013-003.SSF	239097.261	23657
722181.324	4294412.668	8990	12-Nov-13	11122013-003.SSF	239098.22	23658
722181.2	4294412.602	8757	12-Nov-13	11122013-003.SSF	239099.364	23659
722181.096	4294412.548	9509	12-Nov-13	11122013-003.SSF	239100.211	23660
722180.93	4294412.501	8557	12-Nov-13	11122013-003.SSF	239101.254	23661
722180.778	4294412.438	8289	12-Nov-13	11122013-003.SSF	239102.285	23662
722180.578	4294412.249	7412	12-Nov-13	11122013-003.SSF	239103.287	23663
722180.482	4294412.152	7643	12-Nov-13	11122013-003.SSF	239104.103	23664
722180.53	4294412.192	8600	12-Nov-13	11122013-003.SSF	239105.34	23665
722180.67	4294412.25	8200	12-Nov-13	11122013-003.SSF	239106.283	23666
722180.757	4294412.288	7895	12-Nov-13	11122013-003.SSF	239107.271	23667
722180.736	4294412.233	8123	12-Nov-13	11122013-003.SSF	239108.268	23668
722180.719	4294412.229	8121	12-Nov-13	11122013-003.SSF	239109.294	23669
722180.82	4294412.262	9350	12-Nov-13	11122013-003.SSF	239110.181	23670
722180.975	4294412.336	8667	12-Nov-13	11122013-003.SSF	239111.181	23671
722181.211	4294412.482	9157	12-Nov-13	11122013-003.SSF	239112.176	23672
722181.531	4294412.71	8589	12-Nov-13	11122013-003.SSF	239113.239	23673
722181.816	4294412.897	9167	12-Nov-13	11122013-003.SSF	239114.104	23674
722182.169	4294413.179	8261	12-Nov-13	11122013-003.SSF	239115.272	23675
722182.439	4294413.413	8815	12-Nov-13	11122013-003.SSF	239116.186	23676
722182.687	4294413.591	8924	12-Nov-13	11122013-003.SSF	239117.347	23677
722182.829	4294413.686	8801	12-Nov-13	11122013-003.SSF	239118.149	23678
722182.939	4294413.781	8140	12-Nov-13	11122013-003.SSF	239119.261	23679
722183.101	4294413.892	8875	12-Nov-13	11122013-003.SSF	239120.195	23680
722183.086	4294413.876	10228	12-Nov-13	11122013-003.SSF	239121.344	23681
722183.07	4294413.844	9037	12-Nov-13	11122013-003.SSF	239122.286	23682
722182.857	4294413.728	8799	12-Nov-13	11122013-003.SSF	239123.36	23683
722182.469	4294413.538	8769	12-Nov-13	11122013-003.SSF	239124.213	23684
722181.965	4294413.094	8312	12-Nov-13	11122013-003.SSF	239125.304	23685
722182.424	4294413.071	8678	12-Nov-13	11122013-003.SSF	239126.256	23686
722182.519	4294413.074	8229	12-Nov-13	11122013-003.SSF	239127.239	23687
722182.511	4294413.017	8267	12-Nov-13	11122013-003.SSF	239128.226	23688
722182.497	4294413.013	8456	12-Nov-13	11122013-003.SSF	239129.373	23689
722182.442	4294413.006	8204	12-Nov-13	11122013-003.SSF	239130.191	23690
722182.223	4294412.833	8201	12-Nov-13	11122013-003.SSF	239131.25	23691
722182.026	4294412.732	9040	12-Nov-13	11122013-003.SSF	239132.253	23692
722182.06	4294412.842	9520	12-Nov-13	11122013-003.SSF	239133.22	23693
722182.388	4294413.112	8830	12-Nov-13	11122013-003.SSF	239134.194	23694
722182.405	4294413.209	9107	12-Nov-13	11122013-003.SSF	239135.281	23695
722182.43	4294413.087	9626	12-Nov-13	11122013-003.SSF	239136.26	23696
722182.544	4294412.903	8826	12-Nov-13	11122013-003.SSF	239137.319	23697
722182.652	4294412.761	8116	12-Nov-13	11122013-003.SSF	239138.148	23698
722182.939	4294412.516	8839	12-Nov-13	11122013-003.SSF	239139.277	23699
722183.201	4294412.333	8719	12-Nov-13	11122013-003.SSF	239140.289	23700

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722183.288	4294412.26	8720	12-Nov-13	11122013-003.SSF	239141.295	23701
722183.233	4294412.295	9830	12-Nov-13	11122013-003.SSF	239142.219	23702
722183.13	4294412.361	8817	12-Nov-13	11122013-003.SSF	239143.346	23703
722183.07	4294412.377	9074	12-Nov-13	11122013-003.SSF	239144.209	23704
722183.033	4294412.361	8868	12-Nov-13	11122013-003.SSF	239145.323	23705
722183.03	4294412.334	9774	12-Nov-13	11122013-003.SSF	239146.24	23706
722183.02	4294412.301	9471	12-Nov-13	11122013-003.SSF	239147.366	23707
722183.022	4294412.259	9118	12-Nov-13	11122013-003.SSF	239148.238	23708
722183.038	4294412.239	8969	12-Nov-13	11122013-003.SSF	239149.345	23709
722183.02	4294412.249	8062	12-Nov-13	11122013-003.SSF	239150.25	23710
722182.879	4294412.325	8255	12-Nov-13	11122013-003.SSF	239151.337	23711
722182.757	4294412.428	9233	12-Nov-13	11122013-003.SSF	239152.245	23712
722182.708	4294412.495	8098	12-Nov-13	11122013-003.SSF	239153.351	23713
722182.684	4294412.49	7544	12-Nov-13	11122013-003.SSF	239154.342	23714
722182.64	4294412.484	8396	12-Nov-13	11122013-003.SSF	239155.365	23715
722182.608	4294412.497	7799	12-Nov-13	11122013-003.SSF	239156.226	23716
722182.66	4294412.528	8189	12-Nov-13	11122013-003.SSF	239157.33	23717
722182.695	4294412.498	8797	12-Nov-13	11122013-003.SSF	239158.255	23718
722182.553	4294412.333	7899	12-Nov-13	11122013-003.SSF	239159.281	23719
722182.491	4294412.236	9234	12-Nov-13	11122013-003.SSF	239160.217	23720
722182.56	4294412.243	9718	12-Nov-13	11122013-003.SSF	239161.297	23721
722182.632	4294412.32	8999	12-Nov-13	11122013-003.SSF	239162.262	23722
722182.678	4294412.392	9420	12-Nov-13	11122013-003.SSF	239163.334	23723
722182.679	4294412.419	9555	12-Nov-13	11122013-003.SSF	239164.276	23724
722182.603	4294412.456	7998	12-Nov-13	11122013-003.SSF	239165.177	23725
722182.528	4294412.555	8119	12-Nov-13	11122013-003.SSF	239166.268	23726
722182.483	4294412.534	7759	12-Nov-13	11122013-003.SSF	239167.185	23727
722182.506	4294412.204	8300	12-Nov-13	11122013-003.SSF	239169.283	23728
722182.487	4294412.019	9545	12-Nov-13	11122013-003.SSF	239170.295	23729
722182.481	4294411.883	9616	12-Nov-13	11122013-003.SSF	239171.315	23730
722182.485	4294411.81	9214	12-Nov-13	11122013-003.SSF	239172.241	23731
722182.533	4294411.956	9923	12-Nov-13	11122013-003.SSF	239173.357	23732
722182.65	4294412.052	9201	12-Nov-13	11122013-003.SSF	239174.235	23733
722182.795	4294412.05	9110	12-Nov-13	11122013-003.SSF	239175.271	23734
722182.793	4294412.017	8307	12-Nov-13	11122013-003.SSF	239176.228	23735
722182.744	4294411.704	8137	12-Nov-13	11122013-003.SSF	239177.257	23736
722182.529	4294411.417	8454	12-Nov-13	11122013-003.SSF	239178.195	23737
722182.361	4294411.042	8383	12-Nov-13	11122013-003.SSF	239179.183	23738
722182.028	4294410.848	8666	12-Nov-13	11122013-003.SSF	239180.317	23739
722181.697	4294410.793	8226	12-Nov-13	11122013-003.SSF	239181.358	23740
722181.474	4294410.722	9526	12-Nov-13	11122013-003.SSF	239182.31	23741
722181.185	4294410.536	9161	12-Nov-13	11122013-003.SSF	239183.317	23742
722180.775	4294410.326	8320	12-Nov-13	11122013-003.SSF	239184.244	23743
722180.255	4294410.071	8170	12-Nov-13	11122013-003.SSF	239185.324	23744
722179.852	4294409.82	7862	12-Nov-13	11122013-003.SSF	239186.267	23745
722179.528	4294409.503	8415	12-Nov-13	11122013-003.SSF	239187.299	23746
722179.041	4294409.305	9093	12-Nov-13	11122013-003.SSF	239188.327	23747

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722178.171	4294408.831	10461	12-Nov-13	11122013-003.SSF	239190.256	23748
722177.643	4294408.714	9095	12-Nov-13	11122013-003.SSF	239191.288	23749
722177.185	4294408.592	8213	12-Nov-13	11122013-003.SSF	239192.292	23750
722176.82	4294408.269	8503	12-Nov-13	11122013-003.SSF	239193.31	23751
722176.483	4294407.873	8876	12-Nov-13	11122013-003.SSF	239194.196	23752
722176.117	4294407.147	9089	12-Nov-13	11122013-003.SSF	239195.281	23753
722175.557	4294406.522	6142	12-Nov-13	11122013-003.SSF	239196.31	23754
722175.172	4294406.114	7475	12-Nov-13	11122013-003.SSF	239197.318	23755
722174.917	4294405.994	6428	12-Nov-13	11122013-003.SSF	239198.229	23756
722174.618	4294405.86	6857	12-Nov-13	11122013-003.SSF	239199.341	23757
722174.4	4294405.702	6574	12-Nov-13	11122013-003.SSF	239200.196	23758
722174.133	4294405.358	5903	12-Nov-13	11122013-003.SSF	239201.28	23759
722173.856	4294404.916	6583	12-Nov-13	11122013-003.SSF	239202.222	23760
722173.572	4294404.39	5936	12-Nov-13	11122013-003.SSF	239203.332	23761
722173.44	4294403.996	7176	12-Nov-13	11122013-003.SSF	239204.173	23762
722173.248	4294403.431	6984	12-Nov-13	11122013-003.SSF	239205.281	23763
722173.178	4294402.931	7236	12-Nov-13	11122013-003.SSF	239206.139	23764
722172.847	4294402.307	5829	12-Nov-13	11122013-003.SSF	239207.367	23765
722172.623	4294401.781	6188	12-Nov-13	11122013-003.SSF	239208.288	23766
722172.352	4294401.289	5657	12-Nov-13	11122013-003.SSF	239209.319	23767
722172.142	4294400.909	6797	12-Nov-13	11122013-003.SSF	239210.273	23768
722171.885	4294400.494	6019	12-Nov-13	11122013-003.SSF	239211.283	23769
722171.591	4294399.98	7567	12-Nov-13	11122013-003.SSF	239212.221	23770
722171.441	4294399.638	6781	12-Nov-13	11122013-003.SSF	239213.271	23771
722171.389	4294399.385	6615	12-Nov-13	11122013-003.SSF	239214.233	23772
722171.242	4294398.965	6993	12-Nov-13	11122013-003.SSF	239215.279	23773
722171.169	4294398.563	7118	12-Nov-13	11122013-003.SSF	239216.131	23774
722170.977	4294398.005	6729	12-Nov-13	11122013-003.SSF	239217.287	23775
722170.928	4294397.248	5792	12-Nov-13	11122013-003.SSF	239218.575	23776
722170.937	4294396.836	5845	12-Nov-13	11122013-003.SSF	239219.27	23777
722171.016	4294396.329	6153	12-Nov-13	11122013-003.SSF	239220.274	23778
722171.121	4294395.945	5738	12-Nov-13	11122013-003.SSF	239221.265	23779
722171.245	4294395.562	6445	12-Nov-13	11122013-003.SSF	239222.203	23780
722171.372	4294394.994	6171	12-Nov-13	11122013-003.SSF	239223.266	23781
722171.558	4294394.464	7182	12-Nov-13	11122013-003.SSF	239224.179	23782
722171.781	4294393.954	6085	12-Nov-13	11122013-003.SSF	239225.322	23783
722171.988	4294393.632	6711	12-Nov-13	11122013-003.SSF	239226.261	23784
722172.041	4294393.208	5997	12-Nov-13	11122013-003.SSF	239227.361	23785
722172.051	4294392.8	7379	12-Nov-13	11122013-003.SSF	239228.314	23786
722172.06	4294392.409	6315	12-Nov-13	11122013-003.SSF	239229.348	23787
722172.025	4294392.027	7158	12-Nov-13	11122013-003.SSF	239230.264	23788
722172.022	4294391.581	6259	12-Nov-13	11122013-003.SSF	239231.279	23789
722172.151	4294391.112	6724	12-Nov-13	11122013-003.SSF	239232.194	23790
722172.289	4294390.553	6451	12-Nov-13	11122013-003.SSF	239233.291	23791
722172.361	4294390.149	7282	12-Nov-13	11122013-003.SSF	239234.202	23792
722172.341	4294389.695	6740	12-Nov-13	11122013-003.SSF	239235.212	23793
722172.391	4294389.181	6635	12-Nov-13	11122013-003.SSF	239236.171	23794

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722172.544	4294388.725	5978	12-Nov-13	11122013-003.SSF	239237.151	23795
722172.788	4294388.24	6340	12-Nov-13	11122013-003.SSF	239238.178	23796
722172.99	4294387.73	5932	12-Nov-13	11122013-003.SSF	239239.116	23797
722173.257	4294387.105	7174	12-Nov-13	11122013-003.SSF	239240.188	23798
722173.538	4294386.547	6503	12-Nov-13	11122013-003.SSF	239241.219	23799
722173.962	4294386.18	6576	12-Nov-13	11122013-003.SSF	239242.201	23800
722174.41	4294385.624	6774	12-Nov-13	11122013-003.SSF	239243.223	23801
722174.712	4294384.929	7243	12-Nov-13	11122013-003.SSF	239244.273	23802
722174.963	4294384.254	7661	12-Nov-13	11122013-003.SSF	239245.232	23803
722175.353	4294383.585	7225	12-Nov-13	11122013-003.SSF	239246.181	23804
722175.766	4294382.867	7206	12-Nov-13	11122013-003.SSF	239247.233	23805
722176.238	4294382.236	7711	12-Nov-13	11122013-003.SSF	239248.252	23806
722176.671	4294381.613	7657	12-Nov-13	11122013-003.SSF	239249.255	23807
722177.117	4294381.137	7734	12-Nov-13	11122013-003.SSF	239250.206	23808
722177.672	4294380.522	5983	12-Nov-13	11122013-003.SSF	239251.324	23809
722178.12	4294380.027	6503	12-Nov-13	11122013-003.SSF	239252.255	23810
722178.402	4294379.517	6006	12-Nov-13	11122013-003.SSF	239253.204	23811
722178.646	4294379.049	5972	12-Nov-13	11122013-003.SSF	239254.097	23812
722179.068	4294378.396	6074	12-Nov-13	11122013-003.SSF	239255.21	23813
722179.319	4294377.958	7278	12-Nov-13	11122013-003.SSF	239256.057	23814
722179.768	4294377.448	6829	12-Nov-13	11122013-003.SSF	239257.261	23815
722180.029	4294377.146	5607	12-Nov-13	11122013-003.SSF	239258.073	23816
722180.063	4294377.101	6362	12-Nov-13	11122013-003.SSF	239259.281	23817
722180.078	4294377.196	5970	12-Nov-13	11122013-003.SSF	239260.249	23818
722180.072	4294377.333	6903	12-Nov-13	11122013-003.SSF	239261.199	23819
722180.023	4294377.352	5986	12-Nov-13	11122013-003.SSF	239262.324	23820
722180.004	4294377.28	6924	12-Nov-13	11122013-003.SSF	239263.258	23821
722180.016	4294377.196	6561	12-Nov-13	11122013-003.SSF	239264.185	23822
722180.104	4294377.128	6140	12-Nov-13	11122013-003.SSF	239265.25	23823
722180.256	4294377.058	6785	12-Nov-13	11122013-003.SSF	239266.116	23824
722180.866	4294376.836	6886	12-Nov-13	11122013-003.SSF	239267.224	23825
722181.408	4294376.381	6581	12-Nov-13	11122013-003.SSF	239268.085	23826
722181.954	4294375.617	7495	12-Nov-13	11122013-003.SSF	239269.237	23827
722182.356	4294375.123	6734	12-Nov-13	11122013-003.SSF	239270.054	23828
722182.603	4294374.614	6693	12-Nov-13	11122013-003.SSF	239271.256	23829
722182.775	4294374.416	6413	12-Nov-13	11122013-003.SSF	239272.096	23830
722183.185	4294374.132	6973	12-Nov-13	11122013-003.SSF	239273.178	23831
722183.567	4294373.916	7023	12-Nov-13	11122013-003.SSF	239274.206	23832
722184.174	4294373.509	7635	12-Nov-13	11122013-003.SSF	239275.266	23833
722184.838	4294373.128	6948	12-Nov-13	11122013-003.SSF	239276.222	23834
722185.475	4294372.828	6597	12-Nov-13	11122013-003.SSF	239277.239	23835
722185.934	4294372.409	5699	12-Nov-13	11122013-003.SSF	239278.251	23836
722186.465	4294371.824	5958	12-Nov-13	11122013-003.SSF	239279.301	23837
722186.912	4294371.11	6066	12-Nov-13	11122013-003.SSF	239280.16	23838
722187.562	4294370.123	6474	12-Nov-13	11122013-003.SSF	239281.24	23839
722187.997	4294369.472	7318	12-Nov-13	11122013-003.SSF	239282.077	23840
722188.139	4294368.773	7499	12-Nov-13	11122013-003.SSF	239283.286	23841

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722188.256	4294368.276	6915	12-Nov-13	11122013-003.SSF	239284.173	23842
722188.369	4294367.521	7008	12-Nov-13	11122013-003.SSF	239285.243	23843
722188.584	4294366.715	7152	12-Nov-13	11122013-003.SSF	239286.238	23844
722188.8	4294365.823	6468	12-Nov-13	11122013-003.SSF	239287.302	23845
722188.959	4294365.026	7287	12-Nov-13	11122013-003.SSF	239288.161	23846
722189.093	4294364	6591	12-Nov-13	11122013-003.SSF	239289.318	23847
722189.235	4294363.413	6118	12-Nov-13	11122013-003.SSF	239290.118	23848
722189.401	4294362.694	5639	12-Nov-13	11122013-003.SSF	239291.293	23849
722189.558	4294362.332	6014	12-Nov-13	11122013-003.SSF	239292.07	23850
722190.178	4294361.958	5990	12-Nov-13	11122013-003.SSF	239293.233	23851
722190.518	4294362.024	5657	12-Nov-13	11122013-003.SSF	239294.131	23852
722190.745	4294362.358	5469	12-Nov-13	11122013-003.SSF	239295.22	23853
722190.756	4294362.667	5784	12-Nov-13	11122013-003.SSF	239296.197	23854
722190.59	4294362.957	5691	12-Nov-13	11122013-003.SSF	239297.159	23855
722190.505	4294363.259	5751	12-Nov-13	11122013-003.SSF	239297.986	23856
722190.24	4294363.978	5365	12-Nov-13	11122013-003.SSF	239299.187	23857
722190.015	4294364.538	5515	12-Nov-13	11122013-003.SSF	239300.051	23858
722189.84	4294365.141	5877	12-Nov-13	11122013-003.SSF	239301.237	23859
722189.706	4294365.562	6359	12-Nov-13	11122013-003.SSF	239302.015	23860
722189.513	4294366.29	5609	12-Nov-13	11122013-003.SSF	239303.236	23861
722189.324	4294366.777	6043	12-Nov-13	11122013-003.SSF	239304.144	23862
722189.177	4294367.277	5881	12-Nov-13	11122013-003.SSF	239305.118	23863
722189.033	4294367.804	6000	12-Nov-13	11122013-003.SSF	239306.154	23864
722188.971	4294368.278	6307	12-Nov-13	11122013-003.SSF	239307.101	23865
722188.763	4294368.865	6467	12-Nov-13	11122013-003.SSF	239308.193	23866
722188.677	4294369.29	5830	12-Nov-13	11122013-003.SSF	239309.21	23867
722188.577	4294369.681	6092	12-Nov-13	11122013-003.SSF	239310.162	23868
722188.555	4294370.285	5794	12-Nov-13	11122013-003.SSF	239311.294	23869
722188.312	4294370.759	5996	12-Nov-13	11122013-003.SSF	239312.295	23870
722188.004	4294371.184	6028	12-Nov-13	11122013-003.SSF	239313.245	23871
722187.515	4294371.665	5603	12-Nov-13	11122013-003.SSF	239314.261	23872
722186.989	4294372.268	5379	12-Nov-13	11122013-003.SSF	239315.259	23873
722186.558	4294372.757	5651	12-Nov-13	11122013-003.SSF	239316.126	23874
722186.038	4294373.392	5668	12-Nov-13	11122013-003.SSF	239317.323	23875
722185.612	4294373.767	5281	12-Nov-13	11122013-003.SSF	239318.212	23876
722185.16	4294374.109	5445	12-Nov-13	11122013-003.SSF	239319.132	23877
722184.503	4294374.469	6018	12-Nov-13	11122013-003.SSF	239320.21	23878
722183.87	4294374.909	6112	12-Nov-13	11122013-003.SSF	239321.235	23879
722183.299	4294375.305	5201	12-Nov-13	11122013-003.SSF	239322.186	23880
722182.773	4294375.762	5581	12-Nov-13	11122013-003.SSF	239323.201	23881
722182.302	4294376.139	5659	12-Nov-13	11122013-003.SSF	239324.183	23882
722181.826	4294376.533	5598	12-Nov-13	11122013-003.SSF	239325.266	23883
722181.363	4294376.862	5114	12-Nov-13	11122013-003.SSF	239326.173	23884
722180.837	4294377.298	5066	12-Nov-13	11122013-003.SSF	239327.244	23885
722180.457	4294377.641	5482	12-Nov-13	11122013-003.SSF	239328.051	23886
722180.014	4294378.094	5626	12-Nov-13	11122013-003.SSF	239329.195	23887
722179.763	4294378.412	5550	12-Nov-13	11122013-003.SSF	239330.079	23888

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722179.521	4294378.825	5769	12-Nov-13	11122013-003.SSF	239331.137	23889
722179.252	4294379.199	5892	12-Nov-13	11122013-003.SSF	239332.177	23890
722178.986	4294379.552	6244	12-Nov-13	11122013-003.SSF	239333.166	23891
722178.808	4294379.817	6331	12-Nov-13	11122013-003.SSF	239334.053	23892
722178.44	4294380.273	5452	12-Nov-13	11122013-003.SSF	239335.297	23893
722178.194	4294380.683	5969	12-Nov-13	11122013-003.SSF	239336.261	23894
722177.827	4294380.958	5923	12-Nov-13	11122013-003.SSF	239337.219	23895
722177.58	4294381.218	5926	12-Nov-13	11122013-003.SSF	239338.129	23896
722176.961	4294381.503	6078	12-Nov-13	11122013-003.SSF	239339.257	23897
722176.704	4294381.983	6829	12-Nov-13	11122013-003.SSF	239340.186	23898
722176.396	4294382.698	5726	12-Nov-13	11122013-003.SSF	239341.311	23899
722176.122	4294383.27	5688	12-Nov-13	11122013-003.SSF	239342.226	23900
722175.852	4294383.808	5643	12-Nov-13	11122013-003.SSF	239343.252	23901
722175.46	4294384.327	5574	12-Nov-13	11122013-003.SSF	239344.226	23902
722174.986	4294384.833	5805	12-Nov-13	11122013-003.SSF	239345.234	23903
722174.589	4294385.362	5793	12-Nov-13	11122013-003.SSF	239346.291	23904
722174.38	4294385.828	5868	12-Nov-13	11122013-003.SSF	239347.336	23905
722174.299	4294386.247	6100	12-Nov-13	11122013-003.SSF	239348.228	23906
722174.129	4294386.719	6037	12-Nov-13	11122013-003.SSF	239349.222	23907
722173.936	4294387.128	5241	12-Nov-13	11122013-003.SSF	239350.057	23908
722173.689	4294387.681	5505	12-Nov-13	11122013-003.SSF	239351.342	23909
722173.613	4294388.076	5422	12-Nov-13	11122013-003.SSF	239352.228	23910
722173.54	4294388.515	5284	12-Nov-13	11122013-003.SSF	239353.211	23911
722173.443	4294388.919	5282	12-Nov-13	11122013-003.SSF	239354.261	23912
722173.411	4294389.205	5686	12-Nov-13	11122013-003.SSF	239355.059	23913
722173.399	4294389.516	5996	12-Nov-13	11122013-003.SSF	239355.985	23914
722173.2	4294390.05	5503	12-Nov-13	11122013-003.SSF	239357.191	23915
722173.007	4294390.521	5627	12-Nov-13	11122013-003.SSF	239358.07	23916
722172.842	4294391.146	5758	12-Nov-13	11122013-003.SSF	239359.182	23917
722172.741	4294391.733	5834	12-Nov-13	11122013-003.SSF	239360.113	23918
722172.61	4294392.439	5989	12-Nov-13	11122013-003.SSF	239361.205	23919
722172.417	4294393.237	6218	12-Nov-13	11122013-003.SSF	239362.308	23920
722172.382	4294393.907	7014	12-Nov-13	11122013-003.SSF	239363.16	23921
722172.392	4294394.697	6463	12-Nov-13	11122013-003.SSF	239364.209	23922
722172.461	4294395.243	5576	12-Nov-13	11122013-003.SSF	239365.056	23923
722172.368	4294395.982	5826	12-Nov-13	11122013-003.SSF	239366.111	23924
722172.498	4294396.639	5422	12-Nov-13	11122013-003.SSF	239367.139	23925
722172.529	4294397.352	5705	12-Nov-13	11122013-003.SSF	239367.97	23926
722172.757	4294398.119	5909	12-Nov-13	11122013-003.SSF	239369.182	23927
722172.887	4294398.724	5846	12-Nov-13	11122013-003.SSF	239370.058	23928
722173.271	4294399.593	5867	12-Nov-13	11122013-003.SSF	239371.216	23929
722173.581	4294400.234	5835	12-Nov-13	11122013-003.SSF	239372.083	23930
722174.028	4294400.774	5854	12-Nov-13	11122013-003.SSF	239373.189	23931
722174.304	4294401.287	5610	12-Nov-13	11122013-003.SSF	239374.223	23932
722174.618	4294401.804	5616	12-Nov-13	11122013-003.SSF	239375.21	23933
722174.779	4294402.579	5251	12-Nov-13	11122013-003.SSF	239376.239	23934
722174.954	4294403.35	5496	12-Nov-13	11122013-003.SSF	239377.264	23935

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722175.464	4294404.601	5695	12-Nov-13	11122013-003.SSF	239379.228	23937
722175.825	4294404.995	5910	12-Nov-13	11122013-003.SSF	239380.196	23938
722176.149	4294405.344	5995	12-Nov-13	11122013-003.SSF	239381.214	23939
722176.365	4294405.678	6268	12-Nov-13	11122013-003.SSF	239382.079	23940
722176.791	4294406.264	6610	12-Nov-13	11122013-003.SSF	239383.252	23941
722177.208	4294406.767	6152	12-Nov-13	11122013-003.SSF	239384.121	23942
722177.788	4294407.292	7718	12-Nov-13	11122013-003.SSF	239385.143	23943
722178.263	4294407.708	7929	12-Nov-13	11122013-003.SSF	239386.175	23944
722178.762	4294408.13	8192	12-Nov-13	11122013-003.SSF	239387.176	23945
722179.259	4294408.686	9578	12-Nov-13	11122013-003.SSF	239388.18	23946
722179.64	4294409.031	8454	12-Nov-13	11122013-003.SSF	239389.217	23947
722179.783	4294409.383	8953	12-Nov-13	11122013-003.SSF	239390.099	23948
722180.173	4294409.738	8538	12-Nov-13	11122013-003.SSF	239391.208	23949
722180.494	4294410.044	7804	12-Nov-13	11122013-003.SSF	239392.024	23950
722181.012	4294410.342	8491	12-Nov-13	11122013-003.SSF	239393.21	23951
722181.278	4294410.639	8872	12-Nov-13	11122013-003.SSF	239394.098	23952
722181.606	4294410.966	10228	12-Nov-13	11122013-003.SSF	239395.184	23953
722181.913	4294411.311	9727	12-Nov-13	11122013-003.SSF	239396.108	23954
722182.407	4294411.679	8731	12-Nov-13	11122013-003.SSF	239397.262	23955
722182.768	4294411.924	8782	12-Nov-13	11122013-003.SSF	239398.17	23956
722183.324	4294411.85	9905	12-Nov-13	11122013-003.SSF	239399.244	23957
722183.844	4294411.499	8806	12-Nov-13	11122013-003.SSF	239400.103	23958
722184.364	4294410.742	8651	12-Nov-13	11122013-003.SSF	239401.174	23959
722184.56	4294410.086	8943	12-Nov-13	11122013-003.SSF	239402.053	23960
722184.287	4294409.372	9615	12-Nov-13	11122013-003.SSF	239403.26	23961
722183.934	4294408.993	8973	12-Nov-13	11122013-003.SSF	239404.16	23962
722183.513	4294408.714	9263	12-Nov-13	11122013-003.SSF	239405.37	23963
722183.279	4294408.565	8586	12-Nov-13	11122013-003.SSF	239406.043	23964
722182.909	4294408.27	8416	12-Nov-13	11122013-003.SSF	239407.15	23965
722182.525	4294407.955	7804	12-Nov-13	11122013-003.SSF	239408.167	23966
722181.997	4294407.577	7981	12-Nov-13	11122013-003.SSF	239409.258	23967
722181.368	4294407.364	8775	12-Nov-13	11122013-003.SSF	239410.085	23968
722180.46	4294406.987	8103	12-Nov-13	11122013-003.SSF	239411.223	23969
722179.651	4294406.604	8416	12-Nov-13	11122013-003.SSF	239412.263	23970
722179.019	4294406.056	9694	12-Nov-13	11122013-003.SSF	239413.183	23971
722178.276	4294405.653	9413	12-Nov-13	11122013-003.SSF	239413.998	23972
722177.55	4294404.912	8293	12-Nov-13	11122013-003.SSF	239415.258	23973
722177.247	4294404.567	6963	12-Nov-13	11122013-003.SSF	239416.108	23974
722177.121	4294404.29	5610	12-Nov-13	11122013-003.SSF	239417.264	23975
722176.956	4294404.073	5599	12-Nov-13	11122013-003.SSF	239418.211	23976
722176.734	4294403.788	5684	12-Nov-13	11122013-003.SSF	239419.158	23977
722176.498	4294403.376	5620	12-Nov-13	11122013-003.SSF	239420.198	23978
722176.252	4294402.949	5868	12-Nov-13	11122013-003.SSF	239421.14	23979
722176.12	4294402.464	5651	12-Nov-13	11122013-003.SSF	239422.108	23980
722175.954	4294401.954	5953	12-Nov-13	11122013-003.SSF	239423.252	23981
722175.843	4294401.516	6071	12-Nov-13	11122013-003.SSF	239424.111	23982

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722175.492	4294400.599	5868	12-Nov-13	11122013-003.SSF	239426.063	23984
722175.114	4294400.068	6466	12-Nov-13	11122013-003.SSF	239427.223	23985
722174.992	4294399.524	6173	12-Nov-13	11122013-003.SSF	239428.152	23986
722174.866	4294398.955	5995	12-Nov-13	11122013-003.SSF	239429.159	23987
722174.848	4294398.339	5622	12-Nov-13	11122013-003.SSF	239430.181	23988
722174.665	4294397.69	6098	12-Nov-13	11122013-003.SSF	239431.173	23989
722174.665	4294397.123	5706	12-Nov-13	11122013-003.SSF	239432.041	23990
722174.56	4294396.359	6165	12-Nov-13	11122013-003.SSF	239433.272	23991
722174.587	4294395.792	6401	12-Nov-13	11122013-003.SSF	239434.09	23992
722174.482	4294394.984	5100	12-Nov-13	11122013-003.SSF	239435.267	23993
722174.57	4294394.527	5359	12-Nov-13	11122013-003.SSF	239436.093	23994
722174.7	4294393.983	6614	12-Nov-13	11122013-003.SSF	239437.155	23995
722174.826	4294393.536	5853	12-Nov-13	11122013-003.SSF	239438.06	23996
722174.818	4294393.019	5977	12-Nov-13	11122013-003.SSF	239439.29	23997
722174.87	4294392.648	5777	12-Nov-13	11122013-003.SSF	239440.098	23998
722174.98	4294392.105	6516	12-Nov-13	11122013-003.SSF	239441.255	23999
722175.106	4294391.74	6729	12-Nov-13	11122013-003.SSF	239442.095	24000
722175.203	4294391.26	5583	12-Nov-13	11122013-003.SSF	239443.154	24001
722175.406	4294390.807	5818	12-Nov-13	11122013-003.SSF	239444.054	24002
722175.59	4294390.251	6115	12-Nov-13	11122013-003.SSF	239445.244	24003
722175.716	4294389.942	5878	12-Nov-13	11122013-003.SSF	239446.044	24004
722175.929	4294389.529	6014	12-Nov-13	11122013-003.SSF	239447.141	24005
722176.238	4294389.188	6665	12-Nov-13	11122013-003.SSF	239448.142	24006
722176.511	4294388.722	6256	12-Nov-13	11122013-003.SSF	239449.175	24007
722176.722	4294388.295	6424	12-Nov-13	11122013-003.SSF	239450.094	24008
722176.992	4294387.87	6946	12-Nov-13	11122013-003.SSF	239451.279	24009
722177.129	4294387.476	6566	12-Nov-13	11122013-003.SSF	239452.142	24010
722177.424	4294386.861	6077	12-Nov-13	11122013-003.SSF	239453.256	24011
722177.648	4294386.307	5438	12-Nov-13	11122013-003.SSF	239454.087	24012
722178.126	4294385.661	5667	12-Nov-13	11122013-003.SSF	239455.196	24013
722178.445	4294385.012	6495	12-Nov-13	11122013-003.SSF	239456.081	24014
722178.985	4294384.247	5795	12-Nov-13	11122013-003.SSF	239457.296	24015
722179.259	4294383.7	7168	12-Nov-13	11122013-003.SSF	239458.17	24016
722179.635	4294383.254	6112	12-Nov-13	11122013-003.SSF	239459.264	24017
722179.802	4294382.909	7318	12-Nov-13	11122013-003.SSF	239460.078	24018
722180.096	4294382.57	7019	12-Nov-13	11122013-003.SSF	239461.304	24019
722180.242	4294382.368	7155	12-Nov-13	11122013-003.SSF	239462.145	24020
722180.305	4294382.133	7488	12-Nov-13	11122013-003.SSF	239463.24	24021
722180.412	4294381.992	7392	12-Nov-13	11122013-003.SSF	239464.096	24022
722180.694	4294381.655	7608	12-Nov-13	11122013-003.SSF	239465.204	24023
722181.077	4294381.231	6882	12-Nov-13	11122013-003.SSF	239466.083	24024
722181.674	4294380.459	7030	12-Nov-13	11122013-003.SSF	239467.268	24025
722182.112	4294379.936	6737	12-Nov-13	11122013-003.SSF	239468.155	24026
722182.557	4294379.331	6934	12-Nov-13	11122013-003.SSF	239469.227	24027
722183.031	4294378.944	6803	12-Nov-13	11122013-003.SSF	239470.094	24028
722183.563	4294378.352	7581	12-Nov-13	11122013-003.SSF	239471.076	24029

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722184.721	4294377.383	6503	12-Nov-13	11122013-003.SSF	239473.179	24031
722185.11	4294377.072	7116	12-Nov-13	11122013-003.SSF	239473.983	24032
722185.652	4294376.563	7419	12-Nov-13	11122013-003.SSF	239475.141	24033
722186.207	4294376.292	6294	12-Nov-13	11122013-003.SSF	239475.999	24034
722186.883	4294375.834	7093	12-Nov-13	11122013-003.SSF	239477.08	24035
722187.581	4294375.634	6243	12-Nov-13	11122013-003.SSF	239478.018	24036
722188.054	4294375.191	6120	12-Nov-13	11122013-003.SSF	239479.077	24037
722188.517	4294374.935	5940	12-Nov-13	11122013-003.SSF	239480.05	24038
722189.058	4294374.648	7147	12-Nov-13	11122013-003.SSF	239481.193	24039
722189.469	4294374.317	6527	12-Nov-13	11122013-003.SSF	239482.104	24040
722189.755	4294373.907	6611	12-Nov-13	11122013-003.SSF	239483.189	24041
722190.022	4294373.66	5793	12-Nov-13	11122013-003.SSF	239484.0341	24042
722190.267	4294373.315	6551	12-Nov-13	11122013-003.SSF	239485.115	24043
722190.662	4294373.195	6437	12-Nov-13	11122013-003.SSF	239485.97	24044
722190.974	4294372.902	6299	12-Nov-13	11122013-003.SSF	239487.193	24045
722191.216	4294372.565	6104	12-Nov-13	11122013-003.SSF	239488.045	24046
722191.432	4294372.138	5996	12-Nov-13	11122013-003.SSF	239489.165	24047
722191.467	4294371.779	5533	12-Nov-13	11122013-003.SSF	239490.106	24048
722191.446	4294371.427	6202	12-Nov-13	11122013-003.SSF	239491.272	24049
722191.554	4294371.131	6980	12-Nov-13	11122013-003.SSF	239492.162	24050
722191.643	4294370.803	6275	12-Nov-13	11122013-003.SSF	239493.098	24051
722191.625	4294370.46	6638	12-Nov-13	11122013-003.SSF	239494.113	24052
722191.84	4294369.938	7029	12-Nov-13	11122013-003.SSF	239495.244	24053
722191.946	4294369.337	7247	12-Nov-13	11122013-003.SSF	239496.059	24054
722192.168	4294368.553	7211	12-Nov-13	11122013-003.SSF	239497.098	24055
722192.268	4294367.883	7053	12-Nov-13	11122013-003.SSF	239498.103	24056
722192.525	4294367.33	6383	12-Nov-13	11122013-003.SSF	239499.1121	24057
722192.774	4294366.698	7745	12-Nov-13	11122013-003.SSF	239500.062	24058
722193.019	4294365.85	6226	12-Nov-13	11122013-003.SSF	239501.267	24059
722193.043	4294365.227	7076	12-Nov-13	11122013-003.SSF	239502.1801	24060
722193.042	4294364.572	7379	12-Nov-13	11122013-003.SSF	239503.1899	24061
722192.937	4294364.079	6915	12-Nov-13	11122013-003.SSF	239504.063	24062
722192.868	4294363.489	5788	12-Nov-13	11122013-003.SSF	239505.134	24063
722192.789	4294362.918	5700	12-Nov-13	11122013-003.SSF	239506.149	24064
722192.51	4294362.254	5681	12-Nov-13	11122013-003.SSF	239507.163	24065
722192.577	4294361.506	6210	12-Nov-13	11122013-003.SSF	239508.131	24066
722192.476	4294360.808	6082	12-Nov-13	11122013-003.SSF	239509.2531	24067
722192.03	4294360.556	5416	12-Nov-13	11122013-003.SSF	239510.111	24068
722191.244	4294360.276	5386	12-Nov-13	11122013-003.SSF	239511.261	24069
722190.725	4294360.163	5610	12-Nov-13	11122013-003.SSF	239512.113	24070
722190.323	4294360.263	6268	12-Nov-13	11122013-003.SSF	239513.193	24071
722190.207	4294360.355	6160	12-Nov-13	11122013-003.SSF	239514.071	24072
722190.264	4294360.292	7570	12-Nov-13	11122013-003.SSF	239515.3	24073
722190.356	4294360.132	7922	12-Nov-13	11122013-003.SSF	239516.053	24074
722190.549	4294359.875	8160	12-Nov-13	11122013-003.SSF	239517.15	24075
722190.797	4294359.898	8490	12-Nov-13	11122013-003.SSF	239518.047	24076

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722190.872	4294360.031	7162	12-Nov-13	11122013-003.SSF	239519.269	24077
722190.47	4294360.433	7910	12-Nov-13	11122013-003.SSF	239520.139	24078
722190.028	4294360.754	9237	12-Nov-13	11122013-003.SSF	239521.207	24079
722189.889	4294360.684	8999	12-Nov-13	11122013-003.SSF	239522.09	24080
722189.906	4294360.461	9180	12-Nov-13	11122013-003.SSF	239523.167	24081
722189.741	4294360.554	7815	12-Nov-13	11122013-003.SSF	239524.075	24082
722189.581	4294360.811	8703	12-Nov-13	11122013-003.SSF	239525.205	24083
722189.531	4294360.865	8025	12-Nov-13	11122013-003.SSF	239526.05	24084
722189.575	4294360.83	8786	12-Nov-13	11122013-003.SSF	239527.261	24085
722189.512	4294360.687	7146	12-Nov-13	11122013-003.SSF	239528.1021	24086
722189.327	4294360.619	7726	12-Nov-13	11122013-003.SSF	239529.266	24087
722189.174	4294360.687	8801	12-Nov-13	11122013-003.SSF	239530.0601	24088
722189.002	4294360.743	8740	12-Nov-13	11122013-003.SSF	239531.124	24089
722188.848	4294360.79	9295	12-Nov-13	11122013-003.SSF	239532.068	24090
722188.71	4294360.963	8083	12-Nov-13	11122013-003.SSF	239533.137	24091
722188.615	4294361.121	8201	12-Nov-13	11122013-003.SSF	239534.132	24092
722188.589	4294361.249	9160	12-Nov-13	11122013-003.SSF	239535.116	24093
722188.532	4294361.363	7690	12-Nov-13	11122013-003.SSF	239536.095	24094
722188.396	4294361.483	8372	12-Nov-13	11122013-003.SSF	239537.226	24095
722188.343	4294361.638	8033	12-Nov-13	11122013-003.SSF	239538.098	24096
722188.348	4294361.836	7978	12-Nov-13	11122013-003.SSF	239539.082	24097
722188.354	4294362.006	8594	12-Nov-13	11122013-003.SSF	239540.149	24098
722188.405	4294362.052	9828	12-Nov-13	11122013-003.SSF	239541.261	24099
722188.419	4294362.063	8667	12-Nov-13	11122013-003.SSF	239542.076	24100
722188.341	4294362.091	8466	12-Nov-13	11122013-003.SSF	239543.255	24101
722188.312	4294362.147	8506	12-Nov-13	11122013-003.SSF	239544.064	24102
722310.036	4294386.395	5135	14-Nov-13	11142012-001.SSF	400562	24103
722310.036	4294386.395	5048	14-Nov-13	11142012-001.SSF	400563	24104
722310.036	4294386.395	5112	14-Nov-13	11142012-001.SSF	400564	24105
722310.036	4294386.395	4645	14-Nov-13	11142012-001.SSF	400565	24106
722310.036	4294386.395	4908	14-Nov-13	11142012-001.SSF	400566	24107
722310.036	4294386.395	5183	14-Nov-13	11142012-001.SSF	400567	24108
722310.036	4294386.395	4910	14-Nov-13	11142012-001.SSF	400568	24109
722310.036	4294386.395	4562	14-Nov-13	11142012-001.SSF	400569	24110
722310.036	4294386.395	4546	14-Nov-13	11142012-001.SSF	400570	24111
722310.036	4294386.395	4672	14-Nov-13	11142012-001.SSF	400571	24112
722310.036	4294386.395	4870	14-Nov-13	11142012-001.SSF	400572	24113
722310.036	4294386.395	5019	14-Nov-13	11142012-001.SSF	400573	24114
722310.036	4294386.395	4841	14-Nov-13	11142012-001.SSF	400574	24115
722310.036	4294386.395	4395	14-Nov-13	11142012-001.SSF	400575	24116
722310.036	4294386.395	4392	14-Nov-13	11142012-001.SSF	400576	24117
722310.036	4294386.395	4473	14-Nov-13	11142012-001.SSF	400577	24118
722310.036	4294386.395	4518	14-Nov-13	11142012-001.SSF	400578	24119
722310.036	4294386.395	4277	14-Nov-13	11142012-001.SSF	400580	24121
722310.036	4294386.395	4250	14-Nov-13	11142012-001.SSF	400581	24122
722310.036	4294386.395	4648	14-Nov-13	11142012-001.SSF	400582	24123
722310.036	4294386.395	4744	14-Nov-13	11142012-001.SSF	400583	24124

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722310.036	4294386.395	5039	14-Nov-13	11142012-001.SSF	400584	24125
722310.036	4294386.395	4739	14-Nov-13	11142012-001.SSF	400585	24126
722310.036	4294386.395	4721	14-Nov-13	11142012-001.SSF	400586	24127
722310.036	4294386.395	4710	14-Nov-13	11142012-001.SSF	400587	24128
722310.036	4294386.395	4779	14-Nov-13	11142012-001.SSF	400588	24129
722310.036	4294386.395	4593	14-Nov-13	11142012-001.SSF	400589	24130
722310.036	4294386.395	4683	14-Nov-13	11142012-001.SSF	400590	24131
722310.036	4294386.395	4479	14-Nov-13	11142012-001.SSF	400591	24132
722310.036	4294386.395	4710	14-Nov-13	11142012-001.SSF	400592	24133
722310.036	4294386.395	4689	14-Nov-13	11142012-001.SSF	400593	24134
722310.036	4294386.395	4715	14-Nov-13	11142012-001.SSF	400594	24135
722310.036	4294386.395	4662	14-Nov-13	11142012-001.SSF	400595	24136
722310.036	4294386.395	4917	14-Nov-13	11142012-001.SSF	400596	24137
722310.052	4294386.387	7097	14-Nov-13	11142012-001.SSF	402089.585	24138
722310.1	4294386.364	7294	14-Nov-13	11142012-001.SSF	402090.6429	24139
722310.151	4294386.35	7853	14-Nov-13	11142012-001.SSF	402091.613	24140
722310.178	4294386.35	6793	14-Nov-13	11142012-001.SSF	402092.661	24141
722310.195	4294386.349	7038	14-Nov-13	11142012-001.SSF	402093.634	24142
722310.211	4294386.336	7699	14-Nov-13	11142012-001.SSF	402094.708	24143
722310.201	4294386.345	7234	14-Nov-13	11142012-001.SSF	402095.652	24144
722310.185	4294386.333	7508	14-Nov-13	11142012-001.SSF	402096.696	24145
722310.212	4294386.302	7487	14-Nov-13	11142012-001.SSF	402097.645	24146
722310.254	4294386.292	8081	14-Nov-13	11142012-001.SSF	402098.66	24147
722310.263	4294386.299	7330	14-Nov-13	11142012-001.SSF	402099.609	24148
722310.274	4294386.359	8552	14-Nov-13	11142012-001.SSF	402100.662	24149
722310.292	4294386.42	8018	14-Nov-13	11142012-001.SSF	402101.613	24150
722310.283	4294386.431	7494	14-Nov-13	11142012-001.SSF	402102.645	24151
722310.265	4294386.421	8113	14-Nov-13	11142012-001.SSF	402103.653	24152
722310.262	4294386.403	8508	14-Nov-13	11142012-001.SSF	402104.6479	24153
722310.258	4294386.385	7737	14-Nov-13	11142012-001.SSF	402105.554	24154
722310.242	4294386.373	8024	14-Nov-13	11142012-001.SSF	402106.686	24155
722310.225	4294386.346	7196	14-Nov-13	11142012-001.SSF	402107.632	24156
722310.214	4294386.341	8729	14-Nov-13	11142012-001.SSF	402108.625	24157
722310.216	4294386.381	8482	14-Nov-13	11142012-001.SSF	402109.559	24158
722310.219	4294386.419	8060	14-Nov-13	11142012-001.SSF	402110.627	24159
722310.218	4294386.42	7085	14-Nov-13	11142012-001.SSF	402111.621	24160
722310.225	4294386.418	6781	14-Nov-13	11142012-001.SSF	402112.615	24161
722310.235	4294386.419	6945	14-Nov-13	11142012-001.SSF	402113.571	24162
722310.239	4294386.412	7436	14-Nov-13	11142012-001.SSF	402114.613	24163
722310.238	4294386.399	7949	14-Nov-13	11142012-001.SSF	402115.603	24164
722310.239	4294386.39	7117	14-Nov-13	11142012-001.SSF	402116.627	24165
722310.243	4294386.396	7599	14-Nov-13	11142012-001.SSF	402117.609	24166
722310.243	4294386.405	7449	14-Nov-13	11142012-001.SSF	402118.7061	24167
722310.237	4294386.403	7412	14-Nov-13	11142012-001.SSF	402119.574	24168
722310.23	4294386.392	7943	14-Nov-13	11142012-001.SSF	402120.728	24169
722310.222	4294386.38	6785	14-Nov-13	11142012-001.SSF	402121.646	24170
722310.178	4294386.343	7336	14-Nov-13	11142012-001.SSF	402122.7321	24171

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722310.185	4294386.259	6803	14-Nov-13	11142012-001.SSF	402124.6541	24173
722310.202	4294386.258	6921	14-Nov-13	11142012-001.SSF	402125.5341	24174
722310.215	4294386.261	7280	14-Nov-13	11142012-001.SSF	402126.679	24175
722310.228	4294386.264	7400	14-Nov-13	11142012-001.SSF	402127.5811	24176
722310.239	4294386.28	8090	14-Nov-13	11142012-001.SSF	402128.631	24177
722310.245	4294386.303	8472	14-Nov-13	11142012-001.SSF	402129.558	24178
722310.251	4294386.332	7158	14-Nov-13	11142012-001.SSF	402130.653	24179
722310.26	4294386.346	8749	14-Nov-13	11142012-001.SSF	402131.498	24180
722310.278	4294386.356	7797	14-Nov-13	11142012-001.SSF	402132.699	24181
722310.284	4294386.349	7889	14-Nov-13	11142012-001.SSF	402133.546	24182
722310.286	4294386.339	6832	14-Nov-13	11142012-001.SSF	402134.584	24183
722310.305	4294386.335	7978	14-Nov-13	11142012-001.SSF	402135.573	24184
722310.388	4294386.294	8414	14-Nov-13	11142012-001.SSF	402136.688	24185
722310.476	4294386.274	8133	14-Nov-13	11142012-001.SSF	402137.575	24186
722310.516	4294386.308	7403	14-Nov-13	11142012-001.SSF	402138.614	24187
722310.452	4294386.349	7880	14-Nov-13	11142012-001.SSF	402139.549	24188
722310.343	4294386.359	6740	14-Nov-13	11142012-001.SSF	402140.652	24189
722310.329	4294386.373	7625	14-Nov-13	11142012-001.SSF	402141.58	24190
722310.329	4294386.583	7876	14-Nov-13	11142012-001.SSF	402142.662	24191
722310.352	4294386.735	7849	14-Nov-13	11142012-001.SSF	402143.611	24192
722310.441	4294386.663	8022	14-Nov-13	11142012-001.SSF	402144.709	24193
722310.477	4294386.596	8335	14-Nov-13	11142012-001.SSF	402145.564	24194
722310.483	4294386.617	8114	14-Nov-13	11142012-001.SSF	402146.618	24195
722310.442	4294386.67	6738	14-Nov-13	11142012-001.SSF	402147.556	24196
722310.366	4294386.692	7864	14-Nov-13	11142012-001.SSF	402148.6121	24197
722310.34	4294386.684	7936	14-Nov-13	11142012-001.SSF	402149.566	24198
722310.336	4294386.672	8104	14-Nov-13	11142012-001.SSF	402150.671	24199
722310.303	4294386.628	8086	14-Nov-13	11142012-001.SSF	402151.608	24200
722310.27	4294386.544	8171	14-Nov-13	11142012-001.SSF	402152.645	24201
722310.334	4294386.499	9093	14-Nov-13	11142012-001.SSF	402153.552	24202
722310.476	4294386.511	7763	14-Nov-13	11142012-001.SSF	402154.686	24203
722310.525	4294386.523	7700	14-Nov-13	11142012-001.SSF	402155.549	24204
722310.516	4294386.496	8675	14-Nov-13	11142012-001.SSF	402156.608	24205
722310.471	4294386.467	7748	14-Nov-13	11142012-001.SSF	402157.5389	24206
722310.401	4294386.482	7937	14-Nov-13	11142012-001.SSF	402158.5811	24207
722310.352	4294386.52	6904	14-Nov-13	11142012-001.SSF	402159.511	24208
722310.33	4294386.523	6886	14-Nov-13	11142012-001.SSF	402160.651	24209
722310.324	4294386.49	8651	14-Nov-13	11142012-001.SSF	402161.509	24210
722310.324	4294386.437	8253	14-Nov-13	11142012-001.SSF	402162.6379	24211
722310.242	4294386.512	8243	14-Nov-13	11142012-001.SSF	402163.559	24212
722310.085	4294386.6	8120	14-Nov-13	11142012-001.SSF	402164.613	24213
722310.056	4294386.574	7790	14-Nov-13	11142012-001.SSF	402165.46	24214
722310.106	4294386.528	7557	14-Nov-13	11142012-001.SSF	402166.579	24215
722310.124	4294386.531	7979	14-Nov-13	11142012-001.SSF	402167.548	24216
722310.133	4294386.536	8775	14-Nov-13	11142012-001.SSF	402168.5649	24217
722310.143	4294386.544	7983	14-Nov-13	11142012-001.SSF	402169.4919	24218

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722310.156	4294386.567	7953	14-Nov-13	11142012-001.SSF	402171.4919	24220
722310.136	4294386.539	8708	14-Nov-13	11142012-001.SSF	402172.626	24221
722310.129	4294386.537	8687	14-Nov-13	11142012-001.SSF	402173.553	24222
722310.356	4294386.746	8171	14-Nov-13	11142012-001.SSF	402174.6169	24223
722310.736	4294387.162	8463	14-Nov-13	11142012-001.SSF	402175.458	24224
722311.42	4294387.661	9255	14-Nov-13	11142012-001.SSF	402176.625	24225
722312.007	4294387.909	9993	14-Nov-13	11142012-001.SSF	402177.511	24226
722312.6	4294388.392	8048	14-Nov-13	11142012-001.SSF	402178.632	24227
722312.947	4294388.673	9482	14-Nov-13	11142012-001.SSF	402179.532	24228
722313.313	4294388.911	9270	14-Nov-13	11142012-001.SSF	402180.564	24229
722313.768	4294389.277	8317	14-Nov-13	11142012-001.SSF	402181.578	24230
722314.369	4294389.87	8079	14-Nov-13	11142012-001.SSF	402182.601	24231
722314.771	4294390.546	8680	14-Nov-13	11142012-001.SSF	402183.561	24232
722315.098	4294390.952	7840	14-Nov-13	11142012-001.SSF	402184.605	24233
722315.487	4294391.182	7960	14-Nov-13	11142012-001.SSF	402185.5341	24234
722316.127	4294391.432	8740	14-Nov-13	11142012-001.SSF	402186.667	24235
722316.532	4294391.743	9265	14-Nov-13	11142012-001.SSF	402187.515	24236
722316.886	4294392.315	8826	14-Nov-13	11142012-001.SSF	402188.637	24237
722317.32	4294392.601	8986	14-Nov-13	11142012-001.SSF	402189.551	24238
722317.766	4294392.781	8156	14-Nov-13	11142012-001.SSF	402190.552	24239
722318.01	4294393.014	9359	14-Nov-13	11142012-001.SSF	402191.552	24240
722318.234	4294393.433	9060	14-Nov-13	11142012-001.SSF	402192.551	24241
722318.438	4294393.763	7995	14-Nov-13	11142012-001.SSF	402193.5389	24242
722318.638	4294394.115	7998	14-Nov-13	11142012-001.SSF	402194.637	24243
722318.829	4294394.324	7519	14-Nov-13	11142012-001.SSF	402195.481	24244
722319.093	4294394.444	8299	14-Nov-13	11142012-001.SSF	402196.61	24245
722319.148	4294394.549	8645	14-Nov-13	11142012-001.SSF	402197.5439	24246
722318.928	4294394.661	9391	14-Nov-13	11142012-001.SSF	402198.604	24247
722318.712	4294394.577	8407	14-Nov-13	11142012-001.SSF	402199.562	24248
722318.637	4294394.545	7952	14-Nov-13	11142012-001.SSF	402200.6219	24249
722318.575	4294394.728	8108	14-Nov-13	11142012-001.SSF	402201.585	24250
722318.464	4294394.883	8957	14-Nov-13	11142012-001.SSF	402202.587	24251
722318.528	4294394.869	8389	14-Nov-13	11142012-001.SSF	402203.589	24252
722318.642	4294394.921	8337	14-Nov-13	11142012-001.SSF	402204.6121	24253
722318.537	4294395.073	8834	14-Nov-13	11142012-001.SSF	402205.592	24254
722318.418	4294395.146	8598	14-Nov-13	11142012-001.SSF	402206.608	24255
722318.415	4294395.118	9109	14-Nov-13	11142012-001.SSF	402207.547	24256
722318.438	4294395.073	8457	14-Nov-13	11142012-001.SSF	402208.668	24257
722318.456	4294395.067	8774	14-Nov-13	11142012-001.SSF	402209.533	24258
722318.47	4294395.067	8523	14-Nov-13	11142012-001.SSF	402210.644	24259
722318.48	4294395.049	8761	14-Nov-13	11142012-001.SSF	402211.4969	24260
722318.498	4294395.023	8880	14-Nov-13	11142012-001.SSF	402212.557	24261
722318.509	4294395.016	9150	14-Nov-13	11142012-001.SSF	402213.485	24262
722318.519	4294395.042	10387	14-Nov-13	11142012-001.SSF	402214.6479	24263
722318.525	4294395.095	9047	14-Nov-13	11142012-001.SSF	402215.571	24264
722318.531	4294395.128	8651	14-Nov-13	11142012-001.SSF	402216.572	24265

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722318.549	4294395.095	7533	14-Nov-13	11142012-001.SSF	402217.542	24266
722318.557	4294395.028	8243	14-Nov-13	11142012-001.SSF	402218.667	24267
722318.542	4294394.997	8810	14-Nov-13	11142012-001.SSF	402219.512	24268
722318.527	4294394.988	8682	14-Nov-13	11142012-001.SSF	402220.6591	24269
722318.517	4294394.97	9430	14-Nov-13	11142012-001.SSF	402221.593	24270
722318.505	4294394.922	9137	14-Nov-13	11142012-001.SSF	402222.651	24271
722318.499	4294394.898	9964	14-Nov-13	11142012-001.SSF	402223.573	24272
722318.493	4294394.894	9121	14-Nov-13	11142012-001.SSF	402224.599	24273
722318.493	4294394.903	8940	14-Nov-13	11142012-001.SSF	402225.547	24274
722318.499	4294394.91	9315	14-Nov-13	11142012-001.SSF	402226.674	24275
722318.496	4294394.91	9258	14-Nov-13	11142012-001.SSF	402227.5959	24276
722318.487	4294394.91	8854	14-Nov-13	11142012-001.SSF	402228.661	24277
722318.484	4294394.908	8393	14-Nov-13	11142012-001.SSF	402229.571	24278
722318.482	4294394.908	7918	14-Nov-13	11142012-001.SSF	402230.536	24279
722318.478	4294394.909	8489	14-Nov-13	11142012-001.SSF	402231.4709	24280
722318.47	4294394.906	7822	14-Nov-13	11142012-001.SSF	402232.615	24281
722318.462	4294394.902	7625	14-Nov-13	11142012-001.SSF	402233.5229	24282
722318.457	4294394.902	7606	14-Nov-13	11142012-001.SSF	402234.537	24283
722318.454	4294394.912	8861	14-Nov-13	11142012-001.SSF	402235.5229	24284
722318.453	4294394.92	8785	14-Nov-13	11142012-001.SSF	402236.642	24285
722318.456	4294394.917	8256	14-Nov-13	11142012-001.SSF	402237.5389	24286
722318.46	4294394.916	8754	14-Nov-13	11142012-001.SSF	402238.639	24287
722318.466	4294394.946	8788	14-Nov-13	11142012-001.SSF	402239.5389	24288
722318.484	4294395.047	8497	14-Nov-13	11142012-001.SSF	402240.647	24289
722318.532	4294395.074	9234	14-Nov-13	11142012-001.SSF	402241.552	24290
722318.462	4294395.024	9748	14-Nov-13	11142012-001.SSF	402242.584	24291
722318.315	4294394.957	8437	14-Nov-13	11142012-001.SSF	402243.5341	24292
722318.312	4294394.989	9279	14-Nov-13	11142012-001.SSF	402244.579	24293
722318.524	4294394.853	8799	14-Nov-13	11142012-001.SSF	402245.538	24294
722318.689	4294394.464	7780	14-Nov-13	11142012-001.SSF	402246.662	24295
722318.61	4294394.303	8665	14-Nov-13	11142012-001.SSF	402247.584	24296
722318.583	4294394.312	8616	14-Nov-13	11142012-001.SSF	402248.646	24297
722318.64	4294394.36	8394	14-Nov-13	11142012-001.SSF	402249.501	24298
722318.708	4294394.39	9238	14-Nov-13	11142012-001.SSF	402250.653	24299
722318.784	4294394.38	8339	14-Nov-13	11142012-001.SSF	402251.587	24300
722318.874	4294394.363	8505	14-Nov-13	11142012-001.SSF	402252.585	24301
722318.954	4294394.344	8516	14-Nov-13	11142012-001.SSF	402253.5389	24302
722319.023	4294394.332	8189	14-Nov-13	11142012-001.SSF	402254.5861	24303
722319.063	4294394.341	9127	14-Nov-13	11142012-001.SSF	402255.5811	24304
722319.079	4294394.345	9571	14-Nov-13	11142012-001.SSF	402256.6281	24305
722319.081	4294394.335	8992	14-Nov-13	11142012-001.SSF	402257.554	24306
722319.092	4294394.328	8728	14-Nov-13	11142012-001.SSF	402258.58	24307
722319.09	4294394.337	8542	14-Nov-13	11142012-001.SSF	402259.501	24308
722319.093	4294394.349	9185	14-Nov-13	11142012-001.SSF	402260.674	24309
722319.116	4294394.348	9166	14-Nov-13	11142012-001.SSF	402261.512	24310
722319.148	4294394.35	8591	14-Nov-13	11142012-001.SSF	402262.571	24311
722319.157	4294394.365	8868	14-Nov-13	11142012-001.SSF	402263.526	24312

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722319.161	4294394.387	8697	14-Nov-13	11142012-001.SSF	402264.6591	24313
722319.171	4294394.384	9644	14-Nov-13	11142012-001.SSF	402265.459	24314
722319.19	4294394.392	8411	14-Nov-13	11142012-001.SSF	402266.592	24315
722319.204	4294394.428	8012	14-Nov-13	11142012-001.SSF	402267.5291	24316
722319.219	4294394.447	8333	14-Nov-13	11142012-001.SSF	402268.564	24317
722319.229	4294394.432	8293	14-Nov-13	11142012-001.SSF	402269.502	24318
722319.236	4294394.414	9543	14-Nov-13	11142012-001.SSF	402270.563	24319
722319.242	4294394.409	9945	14-Nov-13	11142012-001.SSF	402271.511	24320
722319.24	4294394.404	9986	14-Nov-13	11142012-001.SSF	402272.549	24321
722319.237	4294394.398	8976	14-Nov-13	11142012-001.SSF	402273.475	24322
722319.241	4294394.393	8514	14-Nov-13	11142012-001.SSF	402274.61	24323
722319.238	4294394.395	9718	14-Nov-13	11142012-001.SSF	402275.5439	24324
722319.234	4294394.398	8789	14-Nov-13	11142012-001.SSF	402276.5861	24325
722319.236	4294394.399	8347	14-Nov-13	11142012-001.SSF	402277.502	24326
722319.238	4294394.396	8296	14-Nov-13	11142012-001.SSF	402278.63	24327
722319.246	4294394.396	8108	14-Nov-13	11142012-001.SSF	402279.558	24328
722319.249	4294394.397	9248	14-Nov-13	11142012-001.SSF	402280.563	24329
722319.246	4294394.396	8312	14-Nov-13	11142012-001.SSF	402281.489	24330
722319.238	4294394.395	8558	14-Nov-13	11142012-001.SSF	402282.5389	24331
722319.233	4294394.399	8109	14-Nov-13	11142012-001.SSF	402283.5179	24332
722319.239	4294394.402	8627	14-Nov-13	11142012-001.SSF	402284.538	24333
722319.243	4294394.4	9866	14-Nov-13	11142012-001.SSF	402285.568	24334
722319.238	4294394.399	8406	14-Nov-13	11142012-001.SSF	402286.642	24335
722319.233	4294394.399	9661	14-Nov-13	11142012-001.SSF	402287.588	24336
722319.227	4294394.399	8775	14-Nov-13	11142012-001.SSF	402288.644	24337
722319.214	4294394.408	8193	14-Nov-13	11142012-001.SSF	402289.582	24338
722319.198	4294394.411	9608	14-Nov-13	11142012-001.SSF	402290.5699	24339
722319.19	4294394.396	9152	14-Nov-13	11142012-001.SSF	402291.5129	24340
722319.189	4294394.375	9398	14-Nov-13	11142012-001.SSF	402292.5551	24341
722319.182	4294394.372	8619	14-Nov-13	11142012-001.SSF	402293.524	24342
722319.172	4294394.381	7825	14-Nov-13	11142012-001.SSF	402294.556	24343
722319.181	4294394.373	8766	14-Nov-13	11142012-001.SSF	402295.562	24344
722319.205	4294394.349	9331	14-Nov-13	11142012-001.SSF	402296.558	24345
722319.216	4294394.336	8242	14-Nov-13	11142012-001.SSF	402297.494	24346
722319.202	4294394.341	8720	14-Nov-13	11142012-001.SSF	402298.5601	24347
722319.183	4294394.345	9110	14-Nov-13	11142012-001.SSF	402299.51	24348
722319.189	4294394.346	8937	14-Nov-13	11142012-001.SSF	402300.577	24349
722319.209	4294394.348	9494	14-Nov-13	11142012-001.SSF	402301.578	24350
722319.22	4294394.349	8283	14-Nov-13	11142012-001.SSF	402302.635	24351
722319.228	4294394.352	8340	14-Nov-13	11142012-001.SSF	402303.4771	24352
722319.238	4294394.357	8565	14-Nov-13	11142012-001.SSF	402304.636	24353
722319.222	4294394.349	8681	14-Nov-13	11142012-001.SSF	402305.519	24354
722319.195	4294394.328	8170	14-Nov-13	11142012-001.SSF	402306.635	24355
722319.2	4294394.327	7652	14-Nov-13	11142012-001.SSF	402307.463	24356
722319.222	4294394.331	8063	14-Nov-13	11142012-001.SSF	402308.641	24357
722319.227	4294394.325	7505	14-Nov-13	11142012-001.SSF	402309.467	24358
722319.226	4294394.316	8686	14-Nov-13	11142012-001.SSF	402310.557	24359

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722319.231	4294394.317	8681	14-Nov-13	11142012-001.SSF	402311.521	24360
722319.236	4294394.323	9580	14-Nov-13	11142012-001.SSF	402312.584	24361
722319.235	4294394.328	9535	14-Nov-13	11142012-001.SSF	402313.535	24362
722319.234	4294394.329	8653	14-Nov-13	11142012-001.SSF	402314.571	24363
722319.237	4294394.332	9123	14-Nov-13	11142012-001.SSF	402315.567	24364
722319.224	4294394.352	8610	14-Nov-13	11142012-001.SSF	402316.618	24365
722319.177	4294394.447	7612	14-Nov-13	11142012-001.SSF	402317.5439	24366
722319.067	4294394.762	7873	14-Nov-13	11142012-001.SSF	402318.595	24367
722319.082	4294395.081	10068	14-Nov-13	11142012-001.SSF	402319.549	24368
722319.302	4294395.185	8907	14-Nov-13	11142012-001.SSF	402320.583	24369
722319.486	4294395.106	8766	14-Nov-13	11142012-001.SSF	402321.484	24370
722319.56	4294395.014	8341	14-Nov-13	11142012-001.SSF	402322.553	24371
722319.537	4294395.017	8025	14-Nov-13	11142012-001.SSF	402323.5031	24372
722319.513	4294395.016	8396	14-Nov-13	11142012-001.SSF	402324.595	24373
722319.551	4294394.94	8729	14-Nov-13	11142012-001.SSF	402325.566	24374
722319.811	4294394.924	9382	14-Nov-13	11142012-001.SSF	402326.557	24375
722320.336	4294394.886	9125	14-Nov-13	11142012-001.SSF	402327.496	24376
722321.116	4294394.682	9541	14-Nov-13	11142012-001.SSF	402328.576	24377
722321.757	4294394.312	9135	14-Nov-13	11142012-001.SSF	402329.502	24378
722322.474	4294393.698	9213	14-Nov-13	11142012-001.SSF	402330.626	24379
722323.06	4294393.172	8753	14-Nov-13	11142012-001.SSF	402331.505	24380
722323.617	4294392.538	7288	14-Nov-13	11142012-001.SSF	402332.6021	24381
722323.862	4294392.11	7732	14-Nov-13	11142012-001.SSF	402333.585	24382
722323.976	4294391.566	8323	14-Nov-13	11142012-001.SSF	402334.618	24383
722324.113	4294390.928	9490	14-Nov-13	11142012-001.SSF	402335.564	24384
722324.375	4294390.275	8522	14-Nov-13	11142012-001.SSF	402336.6021	24385
722324.609	4294389.84	8370	14-Nov-13	11142012-001.SSF	402337.496	24386
722324.878	4294389.417	8362	14-Nov-13	11142012-001.SSF	402338.561	24387
722325.209	4294388.997	7550	14-Nov-13	11142012-001.SSF	402339.509	24388
722325.764	4294388.438	8187	14-Nov-13	11142012-001.SSF	402340.553	24389
722326.36	4294387.877	7747	14-Nov-13	11142012-001.SSF	402341.467	24390
722326.865	4294387.162	7396	14-Nov-13	11142012-001.SSF	402342.481	24391
722327.103	4294386.467	7969	14-Nov-13	11142012-001.SSF	402343.4709	24392
722327.181	4294385.8	8682	14-Nov-13	11142012-001.SSF	402344.495	24393
722327.147	4294385.061	7840	14-Nov-13	11142012-001.SSF	402345.476	24394
722327.068	4294384.186	7870	14-Nov-13	11142012-001.SSF	402346.554	24395
722326.96	4294383.619	8747	14-Nov-13	11142012-001.SSF	402347.467	24396
722326.895	4294383.199	8786	14-Nov-13	11142012-001.SSF	402348.554	24397
722326.898	4294383.024	9426	14-Nov-13	11142012-001.SSF	402349.4969	24398
722326.839	4294383.018	8536	14-Nov-13	11142012-001.SSF	402350.574	24399
722326.802	4294383.096	8824	14-Nov-13	11142012-001.SSF	402351.4771	24400
722326.823	4294383.218	9256	14-Nov-13	11142012-001.SSF	402352.6071	24401
722326.825	4294383.256	8914	14-Nov-13	11142012-001.SSF	402353.516	24402
722326.773	4294383.212	8348	14-Nov-13	11142012-001.SSF	402354.582	24403
722326.706	4294382.916	8447	14-Nov-13	11142012-001.SSF	402355.5291	24404
722326.718	4294382.441	9401	14-Nov-13	11142012-001.SSF	402356.55	24405
722326.812	4294382.281	9250	14-Nov-13	11142012-001.SSF	402357.551	24406

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722326.863	4294382.343	8762	14-Nov-13	11142012-001.SSF	402358.5389	24407
722326.984	4294382.428	8730	14-Nov-13	11142012-001.SSF	402359.521	24408
722327.247	4294382.561	8842	14-Nov-13	11142012-001.SSF	402360.585	24409
722327.345	4294382.664	7970	14-Nov-13	11142012-001.SSF	402361.4821	24410
722327.302	4294382.738	8142	14-Nov-13	11142012-001.SSF	402362.578	24411
722327.275	4294382.759	8455	14-Nov-13	11142012-001.SSF	402363.48	24412
722327.272	4294382.744	8804	14-Nov-13	11142012-001.SSF	402364.545	24413
722327.27	4294382.738	9101	14-Nov-13	11142012-001.SSF	402365.5031	24414
722327.233	4294382.749	8275	14-Nov-13	11142012-001.SSF	402366.592	24415
722327.162	4294382.751	8518	14-Nov-13	11142012-001.SSF	402367.473	24416
722327.14	4294382.734	8189	14-Nov-13	11142012-001.SSF	402368.53	24417
722327.219	4294382.72	8137	14-Nov-13	11142012-001.SSF	402369.483	24418
722327.278	4294382.733	8364	14-Nov-13	11142012-001.SSF	402370.574	24419
722327.282	4294382.733	8751	14-Nov-13	11142012-001.SSF	402371.489	24420
722327.29	4294382.716	8787	14-Nov-13	11142012-001.SSF	402372.557	24421
722327.299	4294382.706	7507	14-Nov-13	11142012-001.SSF	402373.527	24422
722327.291	4294382.714	8716	14-Nov-13	11142012-001.SSF	402374.573	24423
722327.284	4294382.734	7879	14-Nov-13	11142012-001.SSF	402375.502	24424
722327.279	4294382.747	7639	14-Nov-13	11142012-001.SSF	402376.589	24425
722327.273	4294382.746	8930	14-Nov-13	11142012-001.SSF	402377.514	24426
722327.274	4294382.742	8952	14-Nov-13	11142012-001.SSF	402378.528	24427
722327.275	4294382.733	8268	14-Nov-13	11142012-001.SSF	402379.464	24428
722327.265	4294382.702	8814	14-Nov-13	11142012-001.SSF	402426.571	24429
722327.276	4294382.709	7903	14-Nov-13	11142012-001.SSF	402427.407	24430
722327.242	4294382.715	8366	14-Nov-13	11142012-001.SSF	402428.4821	24431
722327.156	4294382.737	8031	14-Nov-13	11142012-001.SSF	402429.421	24432
722327.108	4294382.93	8457	14-Nov-13	11142012-001.SSF	402430.568	24433
722327.096	4294383.083	8294	14-Nov-13	11142012-001.SSF	402431.437	24434
722327.086	4294383.158	7863	14-Nov-13	11142012-001.SSF	402432.474	24435
722327.142	4294383.065	6285	14-Nov-13	11142012-001.SSF	402433.4091	24436
722327.182	4294382.538	8021	14-Nov-13	11142012-001.SSF	402434.543	24437
722327.135	4294381.96	8365	14-Nov-13	11142012-001.SSF	402435.478	24438
722327.284	4294381.52	8421	14-Nov-13	11142012-001.SSF	402436.5129	24439
722327.652	4294381.191	9155	14-Nov-13	11142012-001.SSF	402437.396	24440
722328.235	4294380.555	8918	14-Nov-13	11142012-001.SSF	402438.506	24441
722328.661	4294380.055	9099	14-Nov-13	11142012-001.SSF	402439.387	24442
722329.026	4294379.443	8155	14-Nov-13	11142012-001.SSF	402440.5439	24443
722329.426	4294378.785	8968	14-Nov-13	11142012-001.SSF	402441.463	24444
722330.175	4294377.973	8902	14-Nov-13	11142012-001.SSF	402442.545	24445
722330.67	4294377.356	9755	14-Nov-13	11142012-001.SSF	402443.4611	24446
722331.2	4294376.644	9368	14-Nov-13	11142012-001.SSF	402444.578	24447
722331.801	4294375.893	8972	14-Nov-13	11142012-001.SSF	402445.549	24448
722332.371	4294374.974	8693	14-Nov-13	11142012-001.SSF	402446.594	24449
722332.806	4294374.319	8143	14-Nov-13	11142012-001.SSF	402447.535	24450
722333.22	4294373.619	7496	14-Nov-13	11142012-001.SSF	402448.584	24451
722333.589	4294372.877	8444	14-Nov-13	11142012-001.SSF	402449.5	24452
722334.214	4294372.048	9011	14-Nov-13	11142012-001.SSF	402450.605	24453

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722335.006	4294370.35	8903	14-Nov-13	11142012-001.SSF	402452.604	24455
722335.311	4294369.731	9275	14-Nov-13	11142012-001.SSF	402453.468	24456
722335.738	4294369.164	7689	14-Nov-13	11142012-001.SSF	402454.579	24457
722336.117	4294368.716	8342	14-Nov-13	11142012-001.SSF	402455.441	24458
722336.537	4294368.277	8235	14-Nov-13	11142012-001.SSF	402456.468	24459
722336.468	4294368.029	8328	14-Nov-13	11142012-001.SSF	402457.405	24460
722335.993	4294367.822	8082	14-Nov-13	11142012-001.SSF	402458.5341	24461
722335.853	4294367.814	6880	14-Nov-13	11142012-001.SSF	402459.368	24462
722335.845	4294367.849	7540	14-Nov-13	11142012-001.SSF	402460.538	24463
722335.912	4294367.911	7585	14-Nov-13	11142012-001.SSF	402461.454	24464
722336.043	4294368.058	8016	14-Nov-13	11142012-001.SSF	402462.5179	24465
722335.957	4294368.019	9354	14-Nov-13	11142012-001.SSF	402463.4351	24466
722335.769	4294367.911	8968	14-Nov-13	11142012-001.SSF	402464.567	24467
722335.73	4294367.926	9052	14-Nov-13	11142012-001.SSF	402465.459	24468
722335.74	4294367.963	7903	14-Nov-13	11142012-001.SSF	402466.5031	24469
722335.751	4294367.973	8155	14-Nov-13	11142012-001.SSF	402467.425	24470
722335.743	4294368.002	8879	14-Nov-13	11142012-001.SSF	402468.505	24471
722335.728	4294368.047	8489	14-Nov-13	11142012-001.SSF	402469.407	24472
722335.722	4294368.077	7852	14-Nov-13	11142012-001.SSF	402470.5439	24473
722335.724	4294368.079	7753	14-Nov-13	11142012-001.SSF	402471.462	24474
722335.717	4294368.074	8778	14-Nov-13	11142012-001.SSF	402472.52	24475
722335.709	4294368.07	8164	14-Nov-13	11142012-001.SSF	402473.441	24476
722335.709	4294368.07	8041	14-Nov-13	11142012-001.SSF	402474.483	24477
722335.714	4294368.064	8010	14-Nov-13	11142012-001.SSF	402475.385	24478
722335.718	4294368.053	7732	14-Nov-13	11142012-001.SSF	402476.535	24479
722335.737	4294368.043	8563	14-Nov-13	11142012-001.SSF	402477.47	24480
722335.76	4294368.03	9251	14-Nov-13	11142012-001.SSF	402478.472	24481
722335.755	4294368.028	8582	14-Nov-13	11142012-001.SSF	402479.463	24482
722335.741	4294368.034	7875	14-Nov-13	11142012-001.SSF	402480.5229	24483
722335.739	4294368.039	8388	14-Nov-13	11142012-001.SSF	402481.429	24484
722335.722	4294368.064	8397	14-Nov-13	11142012-001.SSF	402482.573	24485
722335.707	4294368.097	8339	14-Nov-13	11142012-001.SSF	402483.489	24486
722336.193	4294368.993	8520	14-Nov-13	11142012-001.SSF	402557.385	24487
722336.297	4294368.969	8250	14-Nov-13	11142012-001.SSF	402558.434	24488
722336.567	4294368.779	8542	14-Nov-13	11142012-001.SSF	402559.3521	24489
722337.111	4294368.085	9455	14-Nov-13	11142012-001.SSF	402560.554	24490
722337.637	4294367.459	8994	14-Nov-13	11142012-001.SSF	402561.478	24491
722338.259	4294366.753	9928	14-Nov-13	11142012-001.SSF	402562.5081	24492
722338.892	4294365.942	8962	14-Nov-13	11142012-001.SSF	402563.484	24493
722339.595	4294365.136	9350	14-Nov-13	11142012-001.SSF	402564.561	24494
722339.989	4294364.65	8937	14-Nov-13	11142012-001.SSF	402565.449	24495
722340.424	4294364.16	8294	14-Nov-13	11142012-001.SSF	402566.4969	24496
722340.959	4294363.685	8643	14-Nov-13	11142012-001.SSF	402567.35	24497
722341.707	4294362.872	8790	14-Nov-13	11142012-001.SSF	402568.45	24498
722342.198	4294362.202	9187	14-Nov-13	11142012-001.SSF	402569.411	24499
722342.619	4294361.588	8447	14-Nov-13	11142012-001.SSF	402570.4919	24500

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722343.987	4294360.19	8155	14-Nov-13	11142012-001.SSF	402572.498	24502
722344.563	4294359.531	8789	14-Nov-13	11142012-001.SSF	402573.415	24503
722345.069	4294358.811	8677	14-Nov-13	11142012-001.SSF	402574.425	24504
722345.684	4294358.112	8079	14-Nov-13	11142012-001.SSF	402575.354	24505
722346.322	4294357.306	8319	14-Nov-13	11142012-001.SSF	402576.481	24506
722346.602	4294356.795	8380	14-Nov-13	11142012-001.SSF	402577.4189	24507
722346.827	4294356.49	8185	14-Nov-13	11142012-001.SSF	402578.447	24508
722346.844	4294356.546	7896	14-Nov-13	11142012-001.SSF	402579.438	24509
722346.736	4294356.665	7284	14-Nov-13	11142012-001.SSF	402580.447	24510
722346.24	4294356.971	7019	14-Nov-13	11142012-001.SSF	402734.511	24511
722346.61	4294356.332	7845	14-Nov-13	11142012-001.SSF	402735.407	24512
722347.285	4294355.6	8051	14-Nov-13	11142012-001.SSF	402736.4021	24513
722347.963	4294354.941	9392	14-Nov-13	11142012-001.SSF	402737.4221	24514
722348.533	4294354.226	8138	14-Nov-13	11142012-001.SSF	402738.4021	24515
722349.255	4294353.524	8394	14-Nov-13	11142012-001.SSF	402739.342	24516
722349.954	4294352.81	9298	14-Nov-13	11142012-001.SSF	402740.448	24517
722350.291	4294352.244	8624	14-Nov-13	11142012-001.SSF	402741.3101	24518
722350.918	4294351.267	8156	14-Nov-13	11142012-001.SSF	402742.4409	24519
722351.468	4294350.365	8459	14-Nov-13	11142012-001.SSF	402743.4031	24520
722352.005	4294349.522	8234	14-Nov-13	11142012-001.SSF	402744.447	24521
722352.612	4294348.793	9108	14-Nov-13	11142012-001.SSF	402745.3501	24522
722353.218	4294347.859	8517	14-Nov-13	11142012-001.SSF	402746.3999	24523
722353.596	4294347.099	8399	14-Nov-13	11142012-001.SSF	402747.3621	24524
722354.112	4294346.402	8670	14-Nov-13	11142012-001.SSF	402748.4221	24525
722354.523	4294345.854	8655	14-Nov-13	11142012-001.SSF	402749.4189	24526
722355.174	4294345.438	9391	14-Nov-13	11142012-001.SSF	402750.4609	24527
722356.033	4294344.928	8587	14-Nov-13	11142012-001.SSF	402751.4199	24528
722356.683	4294344.169	9557	14-Nov-13	11142012-001.SSF	402752.438	24529
722356.947	4294343.608	8689	14-Nov-13	11142012-001.SSF	402753.3611	24530
722357.025	4294343.304	7452	14-Nov-13	11142012-001.SSF	402754.4641	24531
722356.954	4294343.217	8373	14-Nov-13	11142012-001.SSF	402755.353	24532
722356.722	4294343.189	7703	14-Nov-13	11142012-001.SSF	402756.396	24533
722356.573	4294343.189	7625	14-Nov-13	11142012-001.SSF	402757.377	24534
722357.253	4294343.867	8152	14-Nov-13	11142012-001.SSF	402849.4009	24535
722357.469	4294343.431	7438	14-Nov-13	11142012-001.SSF	402850.437	24536
722357.762	4294342.801	8189	14-Nov-13	11142012-001.SSF	402851.416	24537
722358.108	4294342.256	8377	14-Nov-13	11142012-001.SSF	402852.4431	24538
722358.407	4294341.774	8694	14-Nov-13	11142012-001.SSF	402853.3701	24539
722358.828	4294341.062	8533	14-Nov-13	11142012-001.SSF	402854.3811	24540
722359.477	4294340.358	6783	14-Nov-13	11142012-001.SSF	402855.3491	24541
722360.081	4294339.683	7845	14-Nov-13	11142012-001.SSF	402856.3611	24542
722360.541	4294339.025	9551	14-Nov-13	11142012-001.SSF	402857.3921	24543
722361.223	4294338.236	9168	14-Nov-13	11142012-001.SSF	402858.4441	24544
722361.749	4294337.442	8832	14-Nov-13	11142012-001.SSF	402859.3521	24545
722362.097	4294336.732	9228	14-Nov-13	11142012-001.SSF	402860.3459	24546
722362.512	4294336.243	9657	14-Nov-13	11142012-001.SSF	402861.311	24547

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722364.114	4294335.596	8171	14-Nov-13	11142012-001.SSF	402863.3879	24549
722365.032	4294335.587	8822	14-Nov-13	11142012-001.SSF	402864.426	24550
722365.834	4294335.367	7935	14-Nov-13	11142012-001.SSF	402865.332	24551
722366.62	4294335.034	8673	14-Nov-13	11142012-001.SSF	402866.353	24552
722367.29	4294334.787	8558	14-Nov-13	11142012-001.SSF	402867.387	24553
722367.97	4294334.253	8079	14-Nov-13	11142012-001.SSF	402868.3899	24554
722368.561	4294333.563	7420	14-Nov-13	11142012-001.SSF	402869.293	24555
722368.959	4294332.883	8335	14-Nov-13	11142012-001.SSF	402870.4089	24556
722369.045	4294332.421	8053	14-Nov-13	11142012-001.SSF	402871.303	24557
722369.053	4294331.929	8403	14-Nov-13	11142012-001.SSF	402872.408	24558
722368.987	4294331.803	7740	14-Nov-13	11142012-001.SSF	402873.3191	24559
722368.825	4294331.906	7455	14-Nov-13	11142012-001.SSF	402874.4021	24560
722310.53	4294398.013	9093	14-Nov-13	11142012-001.SSF	403226.3301	24561
722310.783	4294398.238	8783	14-Nov-13	11142012-001.SSF	403227.2729	24562
722310.947	4294398.631	9305	14-Nov-13	11142012-001.SSF	403228.3989	24563
722311.015	4294399.29	8673	14-Nov-13	11142012-001.SSF	403229.343	24564
722310.87	4294400.113	9379	14-Nov-13	11142012-001.SSF	403230.3589	24565
722310.591	4294400.776	8494	14-Nov-13	11142012-001.SSF	403231.314	24566
722310.261	4294401.547	8933	14-Nov-13	11142012-001.SSF	403232.3889	24567
722309.85	4294402.219	8606	14-Nov-13	11142012-001.SSF	403233.2749	24568
722309.264	4294402.97	9116	14-Nov-13	11142012-001.SSF	403234.2839	24569
722308.79	4294403.635	9359	14-Nov-13	11142012-001.SSF	403235.1809	24570
722308.077	4294404.586	8189	14-Nov-13	11142012-001.SSF	403236.343	24571
722307.707	4294405.246	9067	14-Nov-13	11142012-001.SSF	403237.157	24572
722307.681	4294406.138	9106	14-Nov-13	11142012-001.SSF	403238.2261	24573
722307.692	4294407.147	8306	14-Nov-13	11142012-001.SSF	403239.27	24574
722307.474	4294408.12	8226	14-Nov-13	11142012-001.SSF	403240.2661	24575
722307.239	4294408.874	7906	14-Nov-13	11142012-001.SSF	403241.179	24576
722307.063	4294409.563	8516	14-Nov-13	11142012-001.SSF	403242.282	24577
722306.819	4294409.991	9449	14-Nov-13	11142012-001.SSF	403243.1931	24578
722306.46	4294410.243	8572	14-Nov-13	11142012-001.SSF	403244.29	24579
722306.227	4294410.437	8743	14-Nov-13	11142012-001.SSF	403245.2351	24580
722306.336	4294410.599	7705	14-Nov-13	11142012-001.SSF	403246.344	24581
722306.668	4294410.623	9126	14-Nov-13	11142012-001.SSF	403247.27	24582
722306.924	4294410.562	9061	14-Nov-13	11142012-001.SSF	403248.3721	24583
722306.924	4294410.52	8895	14-Nov-13	11142012-001.SSF	403249.2729	24584
722306.889	4294410.512	10653	14-Nov-13	11142012-001.SSF	403250.1819	24585
722306.941	4294410.519	10373	14-Nov-13	11142012-001.SSF	403251.259	24586
722306.97	4294410.535	8893	14-Nov-13	11142012-001.SSF	403252.2749	24587
722307	4294410.552	8643	14-Nov-13	11142012-001.SSF	403253.251	24588
722306.99	4294410.555	8670	14-Nov-13	11142012-001.SSF	403254.3149	24589
722306.996	4294410.551	8857	14-Nov-13	11142012-001.SSF	403255.2661	24590
722307.015	4294410.545	9504	14-Nov-13	11142012-001.SSF	403256.3069	24591
722307.025	4294410.554	9216	14-Nov-13	11142012-001.SSF	403257.252	24592
722307.037	4294410.557	8814	14-Nov-13	11142012-001.SSF	403258.2571	24593
722307.063	4294410.544	8113	14-Nov-13	11142012-001.SSF	403259.1689	24594

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722307.099	4294410.545	8358	14-Nov-13	11142012-001.SSF	403260.3191	24595
722307.118	4294410.536	8629	14-Nov-13	11142012-001.SSF	403261.217	24596
722307.353	4294410.244	7584	14-Nov-13	11142012-001.SSF	403320.301	24597
722307.331	4294410.273	8526	14-Nov-13	11142012-001.SSF	403321.2319	24598
722307.055	4294410.702	9001	14-Nov-13	11142012-001.SSF	403322.345	24599
722306.779	4294411.332	9330	14-Nov-13	11142012-001.SSF	403323.282	24600
722306.488	4294412.062	9412	14-Nov-13	11142012-001.SSF	403324.377	24601
722306.132	4294412.473	8863	14-Nov-13	11142012-001.SSF	403325.2339	24602
722305.631	4294412.906	9566	14-Nov-13	11142012-001.SSF	403326.3411	24603
722305.005	4294413.254	7911	14-Nov-13	11142012-001.SSF	403327.251	24604
722304.029	4294413.535	8547	14-Nov-13	11142012-001.SSF	403328.2939	24605
722303.249	4294413.818	7447	14-Nov-13	11142012-001.SSF	403329.2639	24606
722302.405	4294414.307	8701	14-Nov-13	11142012-001.SSF	403330.3369	24607
722301.475	4294414.698	8535	14-Nov-13	11142012-001.SSF	403331.293	24608
722300.457	4294414.999	8883	14-Nov-13	11142012-001.SSF	403332.2971	24609
722299.595	4294415.461	8491	14-Nov-13	11142012-001.SSF	403333.3279	24610
722298.894	4294416.093	8872	14-Nov-13	11142012-001.SSF	403334.3401	24611
722298.171	4294416.535	9208	14-Nov-13	11142012-001.SSF	403335.291	24612
722297.487	4294416.837	9892	14-Nov-13	11142012-001.SSF	403336.178	24613
722296.652	4294417.031	9103	14-Nov-13	11142012-001.SSF	403337.24	24614
722295.611	4294416.83	8365	14-Nov-13	11142012-001.SSF	403338.302	24615
722294.868	4294416.701	9201	14-Nov-13	11142012-001.SSF	403339.095	24616
722294.21	4294416.825	8810	14-Nov-13	11142012-001.SSF	403340.272	24617
722293.855	4294416.941	10332	14-Nov-13	11142012-001.SSF	403341.1819	24618
722293.265	4294417.303	8583	14-Nov-13	11142012-001.SSF	403342.3169	24619
722292.71	4294417.916	9555	14-Nov-13	11142012-001.SSF	403343.27	24620
722292.177	4294418.787	9258	14-Nov-13	11142012-001.SSF	403344.2881	24621
722291.82	4294419.402	8194	14-Nov-13	11142012-001.SSF	403345.0581	24622
722291.089	4294420.163	8348	14-Nov-13	11142012-001.SSF	403346.302	24623
722290.685	4294420.691	9377	14-Nov-13	11142012-001.SSF	403347.054	24624
722290.112	4294421.46	9994	14-Nov-13	11142012-001.SSF	403348.2959	24625
722289.895	4294421.778	9248	14-Nov-13	11142012-001.SSF	403349.0471	24626
722289.87	4294422.061	9332	14-Nov-13	11142012-001.SSF	403350.2729	24627
722289.864	4294422.175	10253	14-Nov-13	11142012-001.SSF	403351.186	24628
722289.944	4294422.127	9403	14-Nov-13	11142012-001.SSF	403352.3369	24629
722289.286	4294421.29	9125	14-Nov-13	11142012-001.SSF	403498.199	24630
722289.181	4294421.413	8971	14-Nov-13	11142012-001.SSF	403499.238	24631
722288.897	4294421.913	8302	14-Nov-13	11142012-001.SSF	403500.2781	24632
722288.58	4294422.645	8405	14-Nov-13	11142012-001.SSF	403501.1021	24633
722287.892	4294423.866	9181	14-Nov-13	11142012-001.SSF	403502.2241	24634
722287.187	4294424.792	8655	14-Nov-13	11142012-001.SSF	403503.0569	24635
722286.246	4294426.063	9993	14-Nov-13	11142012-001.SSF	403504.2319	24636
722285.774	4294427.01	10178	14-Nov-13	11142012-001.SSF	403505.0569	24637
722285.124	4294428.362	10104	14-Nov-13	11142012-001.SSF	403506.261	24638
722284.514	4294429.222	8676	14-Nov-13	11142012-001.SSF	403507.113	24639
722283.891	4294430.091	8889	14-Nov-13	11142012-001.SSF	403508.1809	24640
722283.754	4294430.566	8612	14-Nov-13	11142012-001.SSF	403509.1001	24641

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722283.809	4294430.75	8450	14-Nov-13	11142012-001.SSF	403511.0381	24643
722283.776	4294430.788	8592	14-Nov-13	11142012-001.SSF	403512.1521	24644
722283.758	4294430.818	8778	14-Nov-13	11142012-001.SSF	403513.2061	24645
722283.75	4294430.831	8104	14-Nov-13	11142012-001.SSF	403514.209	24646
722283.707	4294430.793	7756	14-Nov-13	11142012-001.SSF	403515.1499	24647
722283.508	4294430.688	7639	14-Nov-13	11142012-001.SSF	403516.2219	24648
722283.377	4294430.63	8329	14-Nov-13	11142012-001.SSF	403517.1421	24649
722283.386	4294430.739	7932	14-Nov-13	11142012-001.SSF	403518.2129	24650
722283.327	4294430.791	8253	14-Nov-13	11142012-001.SSF	403519.0701	24651
722283.257	4294430.725	8363	14-Nov-13	11142012-001.SSF	403520.3	24652
722283.257	4294430.723	8660	14-Nov-13	11142012-001.SSF	403521.104	24653
722283.281	4294430.74	9305	14-Nov-13	11142012-001.SSF	403522.272	24654
722283.291	4294430.752	9406	14-Nov-13	11142012-001.SSF	403523.175	24655
722283.239	4294430.788	8321	14-Nov-13	11142012-001.SSF	403524.2151	24656
722283.069	4294430.863	9100	14-Nov-13	11142012-001.SSF	403525.0569	24657
722282.659	4294431.093	9145	14-Nov-13	11142012-001.SSF	403526.304	24658
722282.385	4294431.288	8676	14-Nov-13	11142012-001.SSF	403527.1179	24659
722281.998	4294431.678	8109	14-Nov-13	11142012-001.SSF	403528.2739	24660
722281.859	4294432.046	8747	14-Nov-13	11142012-001.SSF	403529.1101	24661
722281.837	4294432.375	8996	14-Nov-13	11142012-001.SSF	403530.239	24662
722281.899	4294432.512	8339	14-Nov-13	11142012-001.SSF	403531.1389	24663
722281.927	4294432.67	8415	14-Nov-13	11142012-001.SSF	403532.1399	24664
722281.959	4294432.74	8823	14-Nov-13	11142012-001.SSF	403533.175	24665
722281.917	4294432.777	9135	14-Nov-13	11142012-001.SSF	403534.252	24666
722281.877	4294432.814	9153	14-Nov-13	11142012-001.SSF	403535.144	24667
722281.831	4294432.848	8828	14-Nov-13	11142012-001.SSF	403536.322	24668
722281.807	4294432.872	8297	14-Nov-13	11142012-001.SSF	403537.1819	24669
722281.873	4294432.988	8734	14-Nov-13	11142012-001.SSF	403538.2	24670
722282.252	4294433.491	8183	14-Nov-13	11142012-001.SSF	403539.2549	24671
722282.494	4294433.791	8556	14-Nov-13	11142012-001.SSF	403540.269	24672
722282.462	4294433.778	9759	14-Nov-13	11142012-001.SSF	403541.064	24673
722282.411	4294433.715	9849	14-Nov-13	11142012-001.SSF	403542.3181	24674
722282.403	4294433.717	9872	14-Nov-13	11142012-001.SSF	403543.053	24675
722282.374	4294433.731	9038	14-Nov-13	11142012-001.SSF	403544.261	24676
722282.356	4294433.729	9159	14-Nov-13	11142012-001.SSF	403545.144	24677
722282.336	4294433.734	10390	14-Nov-13	11142012-001.SSF	403546.249	24678
722282.321	4294433.731	9047	14-Nov-13	11142012-001.SSF	403547.1599	24679
722282.308	4294433.726	8081	14-Nov-13	11142012-001.SSF	403548.1509	24680
722282.291	4294433.72	8410	14-Nov-13	11142012-001.SSF	403549.124	24681
722282.278	4294433.699	9122	14-Nov-13	11142012-001.SSF	403550.2971	24682
722282.272	4294433.681	9300	14-Nov-13	11142012-001.SSF	403551.116	24683
722282.247	4294433.692	8295	14-Nov-13	11142012-001.SSF	403552.2329	24684
722282.225	4294433.695	8853	14-Nov-13	11142012-001.SSF	403553.075	24685
722282.224	4294433.719	9443	14-Nov-13	11142012-001.SSF	403554.196	24686
722282.25	4294433.74	8511	14-Nov-13	11142012-001.SSF	403555.116	24687
722282.034	4294433.569	8487	14-Nov-13	11142012-001.SSF	403556.166	24688

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722281.848	4294433.458	9262	14-Nov-13	11142012-001.SSF	403557.0901	24689
722281.889	4294433.469	8585	14-Nov-13	11142012-001.SSF	403558.2351	24690
722281.884	4294433.479	8716	14-Nov-13	11142012-001.SSF	403559.062	24691
722281.834	4294433.554	8059	14-Nov-13	11142012-001.SSF	403560.1819	24692
722281.868	4294433.701	8284	14-Nov-13	11142012-001.SSF	403561.063	24693
722281.93	4294433.787	9451	14-Nov-13	11142012-001.SSF	403562.324	24694
722281.946	4294433.778	10102	14-Nov-13	11142012-001.SSF	403563.1699	24695
722281.92	4294433.711	10775	14-Nov-13	11142012-001.SSF	403564.252	24696
722281.894	4294433.673	10134	14-Nov-13	11142012-001.SSF	403565.0359	24697
722281.877	4294433.635	9373	14-Nov-13	11142012-001.SSF	403566.2959	24698
722281.866	4294433.601	8073	14-Nov-13	11142012-001.SSF	403567.2061	24699
722281.842	4294433.562	9098	14-Nov-13	11142012-001.SSF	403568.3159	24700
722281.825	4294433.549	8334	14-Nov-13	11142012-001.SSF	403569.0359	24701
722281.815	4294433.533	9733	14-Nov-13	11142012-001.SSF	403570.2061	24702
722281.81	4294433.516	9273	14-Nov-13	11142012-001.SSF	403571.033	24703
722281.788	4294433.489	8438	14-Nov-13	11142012-001.SSF	403572.2949	24704
722281.767	4294433.471	9129	14-Nov-13	11142012-001.SSF	403573.1689	24705
722281.745	4294433.443	8402	14-Nov-13	11142012-001.SSF	403574.27	24706
722281.734	4294433.424	8070	14-Nov-13	11142012-001.SSF	403575.114	24707
722281.718	4294433.385	9217	14-Nov-13	11142012-001.SSF	403576.335	24708
722281.703	4294433.31	9894	14-Nov-13	11142012-001.SSF	403577.1179	24709
722281.687	4294433.229	9613	14-Nov-13	11142012-001.SSF	403578.177	24710
722281.722	4294433.329	9213	14-Nov-13	11142012-001.SSF	403579.092	24711
722281.718	4294433.413	8393	14-Nov-13	11142012-001.SSF	403580.168	24712
722281.674	4294433.413	9478	14-Nov-13	11142012-001.SSF	403581.093	24713
722281.625	4294433.415	10199	14-Nov-13	11142012-001.SSF	403582.158	24714
722281.599	4294433.365	9150	14-Nov-13	11142012-001.SSF	403583.082	24715
722281.578	4294433.32	7897	14-Nov-13	11142012-001.SSF	403584.208	24716
722281.575	4294433.298	8994	14-Nov-13	11142012-001.SSF	403585.0549	24717
722281.567	4294433.248	8308	14-Nov-13	11142012-001.SSF	403586.178	24718
722281.536	4294433.199	8407	14-Nov-13	11142012-001.SSF	403587.0569	24719
722281.527	4294433.151	8551	14-Nov-13	11142012-001.SSF	403588.314	24720
722281.533	4294433.119	8227	14-Nov-13	11142012-001.SSF	403589.0339	24721
722281.523	4294433.103	8627	14-Nov-13	11142012-001.SSF	403590.134	24722
722281.515	4294433.109	9086	14-Nov-13	11142012-001.SSF	403591.074	24723
722281.512	4294433.112	8631	14-Nov-13	11142012-001.SSF	403592.292	24724
722281.511	4294433.11	8698	14-Nov-13	11142012-001.SSF	403593.1699	24725
722281.501	4294433.11	9284	14-Nov-13	11142012-001.SSF	403594.1919	24726
722281.487	4294433.108	10481	14-Nov-13	11142012-001.SSF	403595.1221	24727
722281.476	4294433.099	8590	14-Nov-13	11142012-001.SSF	403596.2339	24728
722281.469	4294433.089	7667	14-Nov-13	11142012-001.SSF	403597.082	24729
722281.491	4294433.129	9656	14-Nov-13	11142012-001.SSF	403598.188	24730
722281.53	4294433.35	9884	14-Nov-13	11142012-001.SSF	403599.134	24731
722281.674	4294433.398	9221	14-Nov-13	11142012-001.SSF	403600.1331	24732
722281.788	4294433.238	9355	14-Nov-13	11142012-001.SSF	403601.0029	24733
722281.741	4294433.215	9628	14-Nov-13	11142012-001.SSF	403602.177	24734
722281.787	4294433.239	9757	14-Nov-13	11142012-001.SSF	403603.061	24735

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722281.962	4294433.657	10119	14-Nov-13	11142012-001.SSF	403604.075	24736
722282.341	4294433.879	8409	14-Nov-13	11142012-001.SSF	403604.949	24737
722282.655	4294433.741	8882	14-Nov-13	11142012-001.SSF	403606.1531	24738
722282.57	4294433.758	8370	14-Nov-13	11142012-001.SSF	403607.0891	24739
722282.564	4294433.861	8812	14-Nov-13	11142012-001.SSF	403608.1069	24740
722282.589	4294433.899	8653	14-Nov-13	11142012-001.SSF	403609.1321	24741
722282.581	4294433.861	8973	14-Nov-13	11142012-001.SSF	403610.1321	24742
722282.565	4294433.833	9323	14-Nov-13	11142012-001.SSF	403611.073	24743
722282.381	4294433.926	7880	14-Nov-13	11142012-001.SSF	403612.1411	24744
722282.072	4294433.754	8540	14-Nov-13	11142012-001.SSF	403613.0759	24745
722281.9	4294433.628	9005	14-Nov-13	11142012-001.SSF	403614.0879	24746
722281.968	4294433.777	8821	14-Nov-13	11142012-001.SSF	403614.998	24747
722282.05	4294433.836	8355	14-Nov-13	11142012-001.SSF	403616.0659	24748
722282.033	4294433.839	7848	14-Nov-13	11142012-001.SSF	403617.0359	24749
722282.034	4294433.875	9552	14-Nov-13	11142012-001.SSF	403618.2419	24750
722282.095	4294433.893	8508	14-Nov-13	11142012-001.SSF	403619.1101	24751
722282.134	4294433.678	9387	14-Nov-13	11142012-001.SSF	403620.061	24752
722282.065	4294433.58	9456	14-Nov-13	11142012-001.SSF	403621.0669	24753
722282.005	4294433.643	9744	14-Nov-13	11142012-001.SSF	403622.0701	24754
722282.038	4294433.586	9036	14-Nov-13	11142012-001.SSF	403623.001	24755
722282.006	4294433.593	8859	14-Nov-13	11142012-001.SSF	403624.2319	24756
722281.976	4294433.586	9624	14-Nov-13	11142012-001.SSF	403625.1389	24757
722281.958	4294433.597	9186	14-Nov-13	11142012-001.SSF	403626.2019	24758
722281.966	4294433.628	9676	14-Nov-13	11142012-001.SSF	403627.1279	24759
722281.987	4294433.646	9259	14-Nov-13	11142012-001.SSF	403628.2629	24760
722281.986	4294433.647	9334	14-Nov-13	11142012-001.SSF	403629.073	24761
722281.991	4294433.653	9533	14-Nov-13	11142012-001.SSF	403630.0601	24762
722282.031	4294433.626	8533	14-Nov-13	11142012-001.SSF	403631.0901	24763
722360.34	4294323.06	7915	14-Nov-13	11142012-001.SSF	403914.877	24764
722360.684	4294324.605	7057	14-Nov-13	11142013-002.SSF	404012.082	24765
722360.694	4294324.619	7794	14-Nov-13	11142013-002.SSF	404012.882	24766
722360.683	4294324.639	8128	14-Nov-13	11142013-002.SSF	404014.03	24767
722360.703	4294324.67	8353	14-Nov-13	11142013-002.SSF	404015.897	24769
722360.923	4294324.763	9318	14-Nov-13	11142013-002.SSF	404016.886	24770
722360.779	4294324.374	8569	14-Nov-13	11142013-002.SSF	404017.956	24771
722360.704	4294324.192	8922	14-Nov-13	11142013-002.SSF	404018.898	24772
722360.648	4294324.063	9040	14-Nov-13	11142013-002.SSF	404020.114	24773
722360.632	4294324.017	8380	14-Nov-13	11142013-002.SSF	404020.84	24774
722360.617	4294323.961	8425	14-Nov-13	11142013-002.SSF	404021.922	24775
722360.601	4294323.921	8946	14-Nov-13	11142013-002.SSF	404022.905	24776
722360.584	4294323.886	9106	14-Nov-13	11142013-002.SSF	404024.052	24777
722360.575	4294323.866	8336	14-Nov-13	11142013-002.SSF	404024.874	24778
722360.568	4294323.839	7754	14-Nov-13	11142013-002.SSF	404026.102	24779
722360.539	4294323.824	7158	14-Nov-13	11142013-002.SSF	404026.983	24780
722360.533	4294323.893	7279	14-Nov-13	11142013-002.SSF	404028.062	24781
722360.596	4294323.873	8029	14-Nov-13	11142013-002.SSF	404028.99	24782
722360.61	4294323.801	8847	14-Nov-13	11142013-002.SSF	404030.025	24783

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722360.595	4294323.706	8302	14-Nov-13	11142013-002.SSF	404030.866	24784
722360.59	4294323.595	8675	14-Nov-13	11142013-002.SSF	404031.932	24785
722360.599	4294323.536	9038	14-Nov-13	11142013-002.SSF	404032.845	24786
722360.589	4294323.484	7419	14-Nov-13	11142013-002.SSF	404034.038	24787
722360.578	4294323.462	7345	14-Nov-13	11142013-002.SSF	404034.411	24788
722360.675	4294323.32	7296	14-Nov-13	11142013-002.SSF	404035.902	24789
722360.725	4294323.223	8664	14-Nov-13	11142013-002.SSF	404036.869	24790
722360.788	4294323.306	8124	14-Nov-13	11142013-002.SSF	404038.952	24792
722360.684	4294323.295	7701	14-Nov-13	11142013-002.SSF	404039.888	24793
722360.525	4294323.183	6935	14-Nov-13	11142013-002.SSF	404040.943	24794
722360.516	4294323.1	7793	14-Nov-13	11142013-002.SSF	404042.089	24795
722360.563	4294323.088	7918	14-Nov-13	11142013-002.SSF	404042.906	24796
722360.593	4294323.123	7139	14-Nov-13	11142013-002.SSF	404043.939	24797
722360.496	4294323.188	7995	14-Nov-13	11142013-002.SSF	404044.859	24798
722360.216	4294323.289	8058	14-Nov-13	11142013-002.SSF	404046.055	24799
722360.004	4294323.518	7714	14-Nov-13	11142013-002.SSF	404046.953	24800
722359.398	4294324.341	9458	14-Nov-13	11142013-002.SSF	404047.985	24801
722358.676	4294325.073	8574	14-Nov-13	11142013-002.SSF	404048.815	24802
722357.513	4294325.902	8143	14-Nov-13	11142013-002.SSF	404049.99	24803
722356.615	4294326.565	8572	14-Nov-13	11142013-002.SSF	404050.806	24804
722355.369	4294328.154	7611	14-Nov-13	11142013-002.SSF	404052.106	24805
722354.794	4294329.144	7302	14-Nov-13	11142013-002.SSF	404052.857	24806
722353.827	4294330.374	8125	14-Nov-13	11142013-002.SSF	404053.925	24807
722352.839	4294331.318	9321	14-Nov-13	11142013-002.SSF	404054.851	24808
722351.756	4294332.603	7880	14-Nov-13	11142013-002.SSF	404056.021	24809
722351.202	4294333.806	7940	14-Nov-13	11142013-002.SSF	404056.828	24810
722350.472	4294335.528	8255	14-Nov-13	11142013-002.SSF	404058.078	24811
722349.883	4294336.371	7823	14-Nov-13	11142013-002.SSF	404058.837	24812
722348.848	4294337.482	8256	14-Nov-13	11142013-002.SSF	404059.957	24813
722348.259	4294338.516	8004	14-Nov-13	11142013-002.SSF	404060.849	24814
722347.619	4294339.957	8871	14-Nov-13	11142013-002.SSF	404062.025	24815
722346.934	4294341.005	8817	14-Nov-13	11142013-002.SSF	404062.97	24816
722345.683	4294342.181	8264	14-Nov-13	11142013-002.SSF	404064.082	24817
722344.721	4294342.994	8486	14-Nov-13	11142013-002.SSF	404064.966	24818
722343.73	4294344.167	8541	14-Nov-13	11142013-002.SSF	404066.089	24819
722342.93	4294345.294	9125	14-Nov-13	11142013-002.SSF	404066.966	24820
722341.984	4294346.601	8371	14-Nov-13	11142013-002.SSF	404068.005	24821
722340.888	4294347.683	7162	14-Nov-13	11142013-002.SSF	404068.977	24822
722339.666	4294348.524	7640	14-Nov-13	11142013-002.SSF	404070.016	24823
722339.038	4294349.244	7940	14-Nov-13	11142013-002.SSF	404070.83	24824
722338.428	4294350.604	7025	14-Nov-13	11142013-002.SSF	404072.059	24825
722338.074	4294351.461	8116	14-Nov-13	11142013-002.SSF	404072.818	24826
722337.155	4294352.655	9409	14-Nov-13	11142013-002.SSF	404073.979	24827
722336.279	4294353.4	8652	14-Nov-13	11142013-002.SSF	404074.847	24828
722335.431	4294354.555	8373	14-Nov-13	11142013-002.SSF	404075.958	24829
722334.926	4294355.472	8183	14-Nov-13	11142013-002.SSF	404076.814	24830
722334.376	4294356.384	7175	14-Nov-13	11142013-002.SSF	404077.876	24831

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722334.028	4294356.751	7494	14-Nov-13	11142013-002.SSF	404078.953	24832
722333.791	4294356.756	7723	14-Nov-13	11142013-002.SSF	404079.958	24833
722333.584	4294356.623	8261	14-Nov-13	11142013-002.SSF	404080.908	24834
722333.433	4294356.467	8305	14-Nov-13	11142013-002.SSF	404082.067	24835
722333.478	4294356.449	8526	14-Nov-13	11142013-002.SSF	404082.846	24836
722333.659	4294356.736	7741	14-Nov-13	11142013-002.SSF	404084.056	24837
722333.681	4294357.175	7965	14-Nov-13	11142013-002.SSF	404084.954	24838
722333.744	4294357.272	8951	14-Nov-13	11142013-002.SSF	404085.991	24839
722333.78	4294357.163	8928	14-Nov-13	11142013-002.SSF	404086.842	24840
722333.819	4294357.061	8472	14-Nov-13	11142013-002.SSF	404088.008	24841
722333.849	4294357	7698	14-Nov-13	11142013-002.SSF	404088.881	24842
722333.894	4294356.669	8044	14-Nov-13	11142013-002.SSF	404089.992	24843
722333.908	4294356.372	8041	14-Nov-13	11142013-002.SSF	404090.91	24844
722333.909	4294356.324	9450	14-Nov-13	11142013-002.SSF	404091.964	24845
722333.946	4294356.325	8452	14-Nov-13	11142013-002.SSF	404092.858	24846
722333.982	4294356.351	7933	14-Nov-13	11142013-002.SSF	404093.911	24847
722334.035	4294356.418	7533	14-Nov-13	11142013-002.SSF	404094.925	24848
722334.054	4294356.456	6893	14-Nov-13	11142013-002.SSF	404095.918	24849
722334.055	4294356.48	7933	14-Nov-13	11142013-002.SSF	404096.913	24850
722334.095	4294356.521	7593	14-Nov-13	11142013-002.SSF	404097.949	24851
722334.113	4294356.515	8798	14-Nov-13	11142013-002.SSF	404098.913	24852
722334.112	4294356.544	8559	14-Nov-13	11142013-002.SSF	404099.958	24853
722334.119	4294356.635	8020	14-Nov-13	11142013-002.SSF	404100.933	24854
722334.116	4294356.667	8335	14-Nov-13	11142013-002.SSF	404101.951	24855
722334.094	4294356.642	8173	14-Nov-13	11142013-002.SSF	404102.941	24856
722334.057	4294356.628	7833	14-Nov-13	11142013-002.SSF	404103.977	24857
722334.034	4294356.616	8108	14-Nov-13	11142013-002.SSF	404104.831	24858
722334.018	4294356.602	6917	14-Nov-13	11142013-002.SSF	404105.881	24859
722334.008	4294356.606	8119	14-Nov-13	11142013-002.SSF	404106.881	24860
722334	4294356.617	7039	14-Nov-13	11142013-002.SSF	404108.016	24861
722333.999	4294356.614	8780	14-Nov-13	11142013-002.SSF	404108.851	24862
722333.992	4294356.6	7715	14-Nov-13	11142013-002.SSF	404110.093	24863
722333.988	4294356.57	7208	14-Nov-13	11142013-002.SSF	404110.836	24864
722334.016	4294356.528	8402	14-Nov-13	11142013-002.SSF	404112.005	24865
722334.02	4294356.659	8190	14-Nov-13	11142013-002.SSF	404112.84	24866
722333.977	4294356.789	8707	14-Nov-13	11142013-002.SSF	404113.94	24867
722333.96	4294356.754	7937	14-Nov-13	11142013-002.SSF	404114.851	24868
722333.963	4294356.767	8224	14-Nov-13	11142013-002.SSF	404115.965	24869
722333.985	4294356.832	7516	14-Nov-13	11142013-002.SSF	404116.823	24870
722334.005	4294356.902	9049	14-Nov-13	11142013-002.SSF	404117.922	24871
722334.009	4294356.945	7392	14-Nov-13	11142013-002.SSF	404118.848	24872
722334.01	4294356.986	8148	14-Nov-13	11142013-002.SSF	404119.951	24873
722334.02	4294357.02	7977	14-Nov-13	11142013-002.SSF	404120.841	24874
722334.029	4294357.056	8594	14-Nov-13	11142013-002.SSF	404121.905	24875
722334.024	4294357.077	7488	14-Nov-13	11142013-002.SSF	404122.882	24876
722334.017	4294357.099	7212	14-Nov-13	11142013-002.SSF	404123.883	24877
722334.01	4294357.12	7323	14-Nov-13	11142013-002.SSF	404124.825	24878

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722334.012	4294357.139	8310	14-Nov-13	11142013-002.SSF	404125.938	24879
722334.018	4294357.15	8317	14-Nov-13	11142013-002.SSF	404126.884	24880
722334.014	4294357.161	7239	14-Nov-13	11142013-002.SSF	404127.956	24881
722334.024	4294357.17	7330	14-Nov-13	11142013-002.SSF	404128.888	24882
722334.033	4294357.178	7652	14-Nov-13	11142013-002.SSF	404130.101	24883
722334.027	4294357.176	8963	14-Nov-13	11142013-002.SSF	404130.836	24884
722334.05	4294356.986	7970	14-Nov-13	11142013-002.SSF	404132.017	24885
722334.032	4294356.726	8232	14-Nov-13	11142013-002.SSF	404132.87	24886
722333.963	4294356.564	8238	14-Nov-13	11142013-002.SSF	404134.003	24887
722333.967	4294356.55	8269	14-Nov-13	11142013-002.SSF	404134.856	24888
722333.949	4294356.532	8877	14-Nov-13	11142013-002.SSF	404135.958	24889
722333.939	4294356.523	7949	14-Nov-13	11142013-002.SSF	404136.892	24890
722333.962	4294356.543	8737	14-Nov-13	11142013-002.SSF	404137.948	24891
722333.963	4294356.554	7674	14-Nov-13	11142013-002.SSF	404138.944	24892
722333.948	4294356.554	8128	14-Nov-13	11142013-002.SSF	404139.947	24893
722333.933	4294356.582	8212	14-Nov-13	11142013-002.SSF	404140.853	24894
722333.928	4294356.603	8293	14-Nov-13	11142013-002.SSF	404141.999	24895
722333.926	4294356.607	7653	14-Nov-13	11142013-002.SSF	404142.852	24896
722333.923	4294356.627	8093	14-Nov-13	11142013-002.SSF	404143.993	24897
722333.917	4294356.644	7123	14-Nov-13	11142013-002.SSF	404144.874	24898
722333.929	4294356.656	8471	14-Nov-13	11142013-002.SSF	404146.092	24899
722333.939	4294356.666	8147	14-Nov-13	11142013-002.SSF	404146.985	24900
722333.94	4294356.672	7046	14-Nov-13	11142013-002.SSF	404147.909	24901
722333.942	4294356.661	8151	14-Nov-13	11142013-002.SSF	404148.898	24902
722333.948	4294356.662	8668	14-Nov-13	11142013-002.SSF	404149.902	24903
722333.952	4294356.669	8557	14-Nov-13	11142013-002.SSF	404150.761	24904
722333.948	4294356.673	8169	14-Nov-13	11142013-002.SSF	404151.823	24905
722333.944	4294356.676	8522	14-Nov-13	11142013-002.SSF	404152.852	24906
722333.951	4294356.678	8100	14-Nov-13	11142013-002.SSF	404153.862	24907
722333.952	4294356.672	8775	14-Nov-13	11142013-002.SSF	404154.762	24908
722333.946	4294356.664	7983	14-Nov-13	11142013-002.SSF	404155.943	24909
722333.952	4294356.66	9166	14-Nov-13	11142013-002.SSF	404156.873	24910
722333.96	4294356.657	8351	14-Nov-13	11142013-002.SSF	404157.931	24911
722333.958	4294356.652	7458	14-Nov-13	11142013-002.SSF	404158.819	24912
722333.961	4294356.651	7684	14-Nov-13	11142013-002.SSF	404159.936	24913
722333.985	4294356.653	7741	14-Nov-13	11142013-002.SSF	404160.788	24914
722334.03	4294356.784	9255	14-Nov-13	11142013-002.SSF	404161.834	24915
722334.025	4294356.901	7503	14-Nov-13	11142013-002.SSF	404162.752	24916
722333.983	4294356.889	8536	14-Nov-13	11142013-002.SSF	404163.868	24917
722333.967	4294356.863	9004	14-Nov-13	11142013-002.SSF	404164.781	24918
722333.951	4294356.845	7021	14-Nov-13	11142013-002.SSF	404165.862	24919
722333.959	4294356.822	8565	14-Nov-13	11142013-002.SSF	404166.794	24920
722333.971	4294356.822	7811	14-Nov-13	11142013-002.SSF	404167.862	24921
722333.937	4294356.811	8583	14-Nov-13	11142013-002.SSF	404168.795	24922
722333.927	4294356.807	7815	14-Nov-13	11142013-002.SSF	404169.92	24923
722333.944	4294356.81	9753	14-Nov-13	11142013-002.SSF	404170.854	24924
722333.901	4294356.79	8078	14-Nov-13	11142013-002.SSF	404171.896	24925

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722333.864	4294356.773	8499	14-Nov-13	11142013-002.SSF	404172.83	24926
722333.905	4294356.763	7765	14-Nov-13	11142013-002.SSF	404173.866	24927
722333.952	4294356.768	8061	14-Nov-13	11142013-002.SSF	404174.865	24928
722333.924	4294356.783	8165	14-Nov-13	11142013-002.SSF	404175.932	24929
722333.918	4294356.9	8521	14-Nov-13	11142013-002.SSF	404176.871	24930
722333.956	4294357.031	7200	14-Nov-13	11142013-002.SSF	404177.928	24931
722333.962	4294356.945	8220	14-Nov-13	11142013-002.SSF	404178.872	24932
722333.775	4294356.778	7185	14-Nov-13	11142013-002.SSF	404179.951	24933
722333.478	4294356.983	8156	14-Nov-13	11142013-002.SSF	404180.866	24934
722332.753	4294357.419	8009	14-Nov-13	11142013-002.SSF	404181.912	24935
722332.119	4294357.762	8452	14-Nov-13	11142013-002.SSF	404182.869	24936
722331.806	4294358.192	9133	14-Nov-13	11142013-002.SSF	404183.941	24937
722331.209	4294358.834	8853	14-Nov-13	11142013-002.SSF	404184.906	24938
722330.44	4294359.61	8663	14-Nov-13	11142013-002.SSF	404185.885	24939
722329.868	4294360.57	8675	14-Nov-13	11142013-002.SSF	404186.81	24940
722329.234	4294361.794	8229	14-Nov-13	11142013-002.SSF	404187.868	24941
722328.536	4294362.819	7997	14-Nov-13	11142013-002.SSF	404188.79	24942
722327.482	4294363.868	7909	14-Nov-13	11142013-002.SSF	404189.868	24943
722326.61	4294364.898	8217	14-Nov-13	11142013-002.SSF	404190.867	24944
722325.875	4294366.334	9224	14-Nov-13	11142013-002.SSF	404191.925	24945
722325.308	4294367.435	9026	14-Nov-13	11142013-002.SSF	404192.798	24946
722324.385	4294368.727	8706	14-Nov-13	11142013-002.SSF	404193.983	24947
722323.619	4294369.434	8446	14-Nov-13	11142013-002.SSF	404194.819	24948
722322.744	4294370.46	7931	14-Nov-13	11142013-002.SSF	404195.968	24949
722322.205	4294371.482	9453	14-Nov-13	11142013-002.SSF	404196.929	24950
722321.549	4294372.501	7973	14-Nov-13	11142013-002.SSF	404197.969	24951
722320.748	4294373.294	7723	14-Nov-13	11142013-002.SSF	404198.893	24952
722319.852	4294374.193	8261	14-Nov-13	11142013-002.SSF	404199.937	24953
722319.209	4294375.205	8815	14-Nov-13	11142013-002.SSF	404200.853	24954
722318.449	4294376.502	8923	14-Nov-13	11142013-002.SSF	404201.963	24955
722317.719	4294377.343	8951	14-Nov-13	11142013-002.SSF	404202.821	24956
722316.759	4294378.246	9137	14-Nov-13	11142013-002.SSF	404203.941	24957
722316.164	4294379.098	8764	14-Nov-13	11142013-002.SSF	404204.852	24958
722315.585	4294380.335	8071	14-Nov-13	11142013-002.SSF	404205.958	24959
722314.964	4294381.365	7537	14-Nov-13	11142013-002.SSF	404206.892	24960
722313.96	4294382.334	7644	14-Nov-13	11142013-002.SSF	404207.919	24961
722313.103	4294383.195	8691	14-Nov-13	11142013-002.SSF	404208.869	24962
722312.462	4294384.527	8742	14-Nov-13	11142013-002.SSF	404209.971	24963
722312.119	4294385.481	9025	14-Nov-13	11142013-002.SSF	404210.781	24964
722311.36	4294386.423	8496	14-Nov-13	11142013-002.SSF	404211.793	24965
722310.416	4294387.037	9264	14-Nov-13	11142013-002.SSF	404212.732	24966
722309.516	4294387.85	7476	14-Nov-13	11142013-002.SSF	404213.788	24967
722308.911	4294388.794	8229	14-Nov-13	11142013-002.SSF	404214.724	24968
722307.857	4294389.913	7277	14-Nov-13	11142013-002.SSF	404215.992	24969
722307.099	4294390.592	8899	14-Nov-13	11142013-002.SSF	404216.857	24970
722306.372	4294391.707	8434	14-Nov-13	11142013-002.SSF	404217.932	24971
722305.736	4294392.823	8438	14-Nov-13	11142013-002.SSF	404218.922	24972

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722304.884	4294393.756	8439	14-Nov-13	11142013-002.SSF	404219.979	24973
722304.143	4294394.433	9340	14-Nov-13	11142013-002.SSF	404220.821	24974
722303.518	4294395.456	8035	14-Nov-13	11142013-002.SSF	404221.897	24975
722303.135	4294396.481	8068	14-Nov-13	11142013-002.SSF	404222.838	24976
722302.492	4294397.464	10027	14-Nov-13	11142013-002.SSF	404223.831	24977
722301.552	4294398.287	8446	14-Nov-13	11142013-002.SSF	404224.78	24978
722300.497	4294399.17	8081	14-Nov-13	11142013-002.SSF	404225.873	24979
722299.875	4294399.979	8950	14-Nov-13	11142013-002.SSF	404226.804	24980
722299.373	4294400.96	8717	14-Nov-13	11142013-002.SSF	404227.925	24981
722299.066	4294401.869	7759	14-Nov-13	11142013-002.SSF	404228.862	24982
722298.623	4294402.741	8209	14-Nov-13	11142013-002.SSF	404229.881	24983
722297.899	4294403.267	8952	14-Nov-13	11142013-002.SSF	404230.766	24984
722296.843	4294403.869	8178	14-Nov-13	11142013-002.SSF	404231.824	24985
722296.119	4294404.572	8644	14-Nov-13	11142013-002.SSF	404232.752	24986
722295.525	4294405.754	8491	14-Nov-13	11142013-002.SSF	404233.881	24987
722295.057	4294406.762	7822	14-Nov-13	11142013-002.SSF	404234.816	24988
722294.255	4294407.78	8195	14-Nov-13	11142013-002.SSF	404235.891	24989
722293.326	4294408.526	8589	14-Nov-13	11142013-002.SSF	404236.811	24990
722292.351	4294409.332	8537	14-Nov-13	11142013-002.SSF	404237.832	24991
722291.788	4294410.059	8224	14-Nov-13	11142013-002.SSF	404238.795	24992
722291.603	4294410.8	8566	14-Nov-13	11142013-002.SSF	404239.855	24993
722291.422	4294411.495	9191	14-Nov-13	11142013-002.SSF	404240.758	24994
722290.759	4294412.392	8028	14-Nov-13	11142013-002.SSF	404241.916	24995
722290.131	4294413.033	7647	14-Nov-13	11142013-002.SSF	404242.744	24996
722289.433	4294413.894	8661	14-Nov-13	11142013-002.SSF	404243.875	24997
722288.886	4294414.645	9275	14-Nov-13	11142013-002.SSF	404244.747	24998
722287.864	4294415.805	9428	14-Nov-13	11142013-002.SSF	404245.948	24999
722286.87	4294416.489	8567	14-Nov-13	11142013-002.SSF	404246.861	25000
722285.803	4294417.323	8891	14-Nov-13	11142013-002.SSF	404247.893	25001
722285.002	4294418.486	8943	14-Nov-13	11142013-002.SSF	404248.871	25002
722284.308	4294419.758	8745	14-Nov-13	11142013-002.SSF	404249.882	25003
722283.45	4294420.876	9566	14-Nov-13	11142013-002.SSF	404250.852	25004
722282.238	4294421.864	10131	14-Nov-13	11142013-002.SSF	404251.861	25005
722281.186	4294422.706	9973	14-Nov-13	11142013-002.SSF	404252.771	25006
722280.101	4294423.936	9753	14-Nov-13	11142013-002.SSF	404253.909	25007
722279.37	4294425.156	9248	14-Nov-13	11142013-002.SSF	404254.869	25008
722278.714	4294426.373	8132	14-Nov-13	11142013-002.SSF	404255.867	25009
722277.873	4294427.313	7343	14-Nov-13	11142013-002.SSF	404256.782	25010
722276.754	4294428.297	7595	14-Nov-13	11142013-002.SSF	404257.857	25011
722275.932	4294429.2	9009	14-Nov-13	11142013-002.SSF	404258.819	25012
722275.131	4294430.538	7952	14-Nov-13	11142013-002.SSF	404259.862	25013
722274.451	4294431.816	9068	14-Nov-13	11142013-002.SSF	404260.877	25014
722273.633	4294432.942	7727	14-Nov-13	11142013-002.SSF	404261.925	25015
722272.749	4294433.731	8801	14-Nov-13	11142013-002.SSF	404262.794	25016
722271.753	4294434.788	8020	14-Nov-13	11142013-002.SSF	404263.93	25017
722271.205	4294435.817	8035	14-Nov-13	11142013-002.SSF	404264.831	25018
722270.587	4294436.934	8848	14-Nov-13	11142013-002.SSF	404265.878	25019

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722269.843	4294437.789	8422	14-Nov-13	11142013-002.SSF	404266.793	25020
722268.868	4294438.764	8915	14-Nov-13	11142013-002.SSF	404267.947	25021
722268.255	4294439.664	8498	14-Nov-13	11142013-002.SSF	404268.866	25022
722267.561	4294440.752	7734	14-Nov-13	11142013-002.SSF	404269.948	25023
722266.796	4294441.612	8113	14-Nov-13	11142013-002.SSF	404270.82	25024
722265.851	4294442.598	8928	14-Nov-13	11142013-002.SSF	404271.838	25025
722265.104	4294443.708	8172	14-Nov-13	11142013-002.SSF	404272.85	25026
722264.459	4294444.847	8583	14-Nov-13	11142013-002.SSF	404273.86	25027
722263.595	4294445.69	7755	14-Nov-13	11142013-002.SSF	404274.795	25028
722262.419	4294446.479	8958	14-Nov-13	11142013-002.SSF	404275.889	25029
722261.686	4294447.232	9289	14-Nov-13	11142013-002.SSF	404276.795	25030
722261.169	4294448.085	9342	14-Nov-13	11142013-002.SSF	404277.898	25031
722261.137	4294448.354	9235	14-Nov-13	11142013-002.SSF	404278.786	25032
722261.16	4294448.363	9389	14-Nov-13	11142013-002.SSF	404279.888	25033
722261.111	4294448.298	9697	14-Nov-13	11142013-002.SSF	404280.739	25034
722261.064	4294448.21	8634	14-Nov-13	11142013-002.SSF	404281.882	25035
722261.09	4294448.248	9148	14-Nov-13	11142013-002.SSF	404282.708	25036
722261.088	4294448.279	9397	14-Nov-13	11142013-002.SSF	404283.869	25037
722261.073	4294448.289	8229	14-Nov-13	11142013-002.SSF	404284.791	25038
722261.061	4294448.299	8897	14-Nov-13	11142013-002.SSF	404285.89	25039
722261.062	4294448.305	8734	14-Nov-13	11142013-002.SSF	404286.832	25040
722261.068	4294448.322	8753	14-Nov-13	11142013-002.SSF	404287.849	25041
722261.066	4294448.345	8338	14-Nov-13	11142013-002.SSF	404288.769	25042
722261.05	4294448.355	9554	14-Nov-13	11142013-002.SSF	404289.907	25043
722261.045	4294448.404	8988	14-Nov-13	11142013-002.SSF	404290.829	25044
722260.726	4294448.602	8067	14-Nov-13	11142013-002.SSF	404291.841	25045
722260.193	4294449.247	8046	14-Nov-13	11142013-002.SSF	404292.753	25046
722259.561	4294450.376	7951	14-Nov-13	11142013-002.SSF	404293.87	25047
722258.916	4294451.266	7747	14-Nov-13	11142013-002.SSF	404294.802	25048
722257.982	4294452.103	7517	14-Nov-13	11142013-002.SSF	404295.895	25049
722257.3	4294452.88	8269	14-Nov-13	11142013-002.SSF	404296.802	25050
722256.609	4294454.055	8187	14-Nov-13	11142013-002.SSF	404297.927	25051
722255.932	4294454.996	8197	14-Nov-13	11142013-002.SSF	404298.834	25052
722254.96	4294455.946	8589	14-Nov-13	11142013-002.SSF	404299.861	25053
722254.086	4294456.8	9137	14-Nov-13	11142013-002.SSF	404300.828	25054
722253.27	4294458.024	9154	14-Nov-13	11142013-002.SSF	404301.863	25055
722252.556	4294459.107	8948	14-Nov-13	11142013-002.SSF	404302.762	25056
722251.595	4294460.208	7847	14-Nov-13	11142013-002.SSF	404303.814	25057
722250.633	4294461.231	8231	14-Nov-13	11142013-002.SSF	404304.83	25058
722249.799	4294462.319	8088	14-Nov-13	11142013-002.SSF	404305.848	25059
722249.221	4294463.362	9102	14-Nov-13	11142013-002.SSF	404306.76	25060
722248.358	4294464.419	9085	14-Nov-13	11142013-002.SSF	404307.841	25061
722247.531	4294465.183	9051	14-Nov-13	11142013-002.SSF	404308.793	25062
722246.862	4294466.124	8442	14-Nov-13	11142013-002.SSF	404309.827	25063
722246.324	4294467.219	9430	14-Nov-13	11142013-002.SSF	404310.787	25064
722245.506	4294468.359	8897	14-Nov-13	11142013-002.SSF	404311.88	25065
722244.492	4294469.205	9184	14-Nov-13	11142013-002.SSF	404312.813	25066

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722243.445	4294470.129	8656	14-Nov-13	11142013-002.SSF	404313.8	25067
722242.587	4294471.29	8434	14-Nov-13	11142013-002.SSF	404314.821	25068
722241.815	4294472.299	7418	14-Nov-13	11142013-002.SSF	404315.838	25069
722241.023	4294473.119	7404	14-Nov-13	11142013-002.SSF	404316.745	25070
722240.063	4294473.94	8391	14-Nov-13	11142013-002.SSF	404317.857	25071
722239.412	4294475.003	8487	14-Nov-13	11142013-002.SSF	404318.763	25072
722238.562	4294476.294	7792	14-Nov-13	11142013-002.SSF	404319.797	25073
722237.563	4294477.394	8848	14-Nov-13	11142013-002.SSF	404320.824	25074
722236.434	4294478.385	8602	14-Nov-13	11142013-002.SSF	404321.918	25075
722235.705	4294479.289	8180	14-Nov-13	11142013-002.SSF	404322.813	25076
722235.1	4294480.304	8285	14-Nov-13	11142013-002.SSF	404323.835	25077
722234.415	4294481.18	9061	14-Nov-13	11142013-002.SSF	404324.838	25078
722233.502	4294482.051	8055	14-Nov-13	11142013-002.SSF	404325.903	25079
722232.874	4294482.852	8163	14-Nov-13	11142013-002.SSF	404326.751	25080
722232.151	4294484.004	8101	14-Nov-13	11142013-002.SSF	404327.825	25081
722231.487	4294484.938	8385	14-Nov-13	11142013-002.SSF	404328.738	25082
722230.525	4294485.956	8096	14-Nov-13	11142013-002.SSF	404329.828	25083
722229.754	4294486.913	9734	14-Nov-13	11142013-002.SSF	404330.736	25084
722228.826	4294488.173	9633	14-Nov-13	11142013-002.SSF	404331.857	25085
722228.063	4294489.103	8228	14-Nov-13	11142013-002.SSF	404332.763	25086
722226.994	4294490.118	9437	14-Nov-13	11142013-002.SSF	404333.902	25087
722226.315	4294490.941	8659	14-Nov-13	11142013-002.SSF	404334.746	25088
722225.548	4294492.353	8464	14-Nov-13	11142013-002.SSF	404335.936	25089
722225.047	4294493.329	8206	14-Nov-13	11142013-002.SSF	404336.711	25090
722224.104	4294494.526	7631	14-Nov-13	11142013-002.SSF	404337.829	25091
722223.169	4294495.289	8478	14-Nov-13	11142013-002.SSF	404338.784	25092
722222.337	4294496.193	8299	14-Nov-13	11142013-002.SSF	404339.839	25093
722221.8	4294497.222	9664	14-Nov-13	11142013-002.SSF	404340.791	25094
722220.99	4294498.269	8536	14-Nov-13	11142013-002.SSF	404341.84	25095
722220.048	4294499.105	8164	14-Nov-13	11142013-002.SSF	404342.797	25096
722219.154	4294500.129	8521	14-Nov-13	11142013-002.SSF	404343.839	25097
722218.472	4294501.083	8310	14-Nov-13	11142013-002.SSF	404344.776	25098
722217.691	4294502.274	8527	14-Nov-13	11142013-002.SSF	404345.884	25099
722217.038	4294503.237	8102	14-Nov-13	11142013-002.SSF	404346.806	25100
722217.035	4294504.367	8415	14-Nov-13	11142013-002.SSF	404347.847	25101
722217.873	4294505.15	7953	14-Nov-13	11142013-002.SSF	404348.854	25102
722219.084	4294505.033	7628	14-Nov-13	11142013-002.SSF	404349.884	25103
722220.017	4294504.33	8777	14-Nov-13	11142013-002.SSF	404350.757	25104
722220.798	4294503.245	8314	14-Nov-13	11142013-002.SSF	404351.877	25105
722221.269	4294502.313	8648	14-Nov-13	11142013-002.SSF	404352.748	25106
722222.079	4294501.121	9182	14-Nov-13	11142013-002.SSF	404353.831	25107
722223.007	4294500.171	9375	14-Nov-13	11142013-002.SSF	404354.769	25108
722223.958	4294499.181	8973	14-Nov-13	11142013-002.SSF	404355.801	25109
722224.86	4294498.089	9053	14-Nov-13	11142013-002.SSF	404356.792	25110
722225.83	4294496.68	9523	14-Nov-13	11142013-002.SSF	404357.876	25111
722226.644	4294495.674	8591	14-Nov-13	11142013-002.SSF	404358.707	25112
722227.872	4294494.549	8837	14-Nov-13	11142013-002.SSF	404359.838	25113

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722228.704	4294493.763	8929	14-Nov-13	11142013-002.SSF	404360.702	25114
722229.7	4294492.422	8202	14-Nov-13	11142013-002.SSF	404361.883	25115
722230.319	4294491.364	8470	14-Nov-13	11142013-002.SSF	404362.755	25116
722231.267	4294490.21	9047	14-Nov-13	11142013-002.SSF	404363.842	25117
722232.27	4294489.329	8621	14-Nov-13	11142013-002.SSF	404364.753	25118
722233.348	4294488.238	8935	14-Nov-13	11142013-002.SSF	404365.913	25119
722233.719	4294487.446	8624	14-Nov-13	11142013-002.SSF	404366.765	25120
722234.066	4294486.693	9026	14-Nov-13	11142013-002.SSF	404367.827	25121
722234.387	4294486.436	8856	14-Nov-13	11142013-002.SSF	404368.761	25122
722234.472	4294486.41	8514	14-Nov-13	11142013-002.SSF	404369.776	25123
722234.432	4294486.458	8818	14-Nov-13	11142013-002.SSF	404370.762	25124
722234.41	4294486.487	8444	14-Nov-13	11142013-002.SSF	404371.87	25125
722234.403	4294486.494	9881	14-Nov-13	11142013-002.SSF	404372.782	25126
722234.401	4294486.471	7870	14-Nov-13	11142013-002.SSF	404373.866	25127
722234.396	4294486.442	8837	14-Nov-13	11142013-002.SSF	404374.807	25128
722234.373	4294486.428	8629	14-Nov-13	11142013-002.SSF	404375.888	25129
722234.328	4294486.422	9147	14-Nov-13	11142013-002.SSF	404376.81	25130
722234.291	4294486.438	7597	14-Nov-13	11142013-002.SSF	404377.915	25131
722234.302	4294486.449	7749	14-Nov-13	11142013-002.SSF	404378.821	25132
722234.316	4294486.449	8207	14-Nov-13	11142013-002.SSF	404379.872	25133
722234.323	4294486.441	8561	14-Nov-13	11142013-002.SSF	404380.749	25134
722234.358	4294486.415	8560	14-Nov-13	11142013-002.SSF	404381.873	25135
722234.383	4294486.398	8170	14-Nov-13	11142013-002.SSF	404382.775	25136
722234.358	4294486.397	7832	14-Nov-13	11142013-002.SSF	404383.881	25137
722234.354	4294486.4	8678	14-Nov-13	11142013-002.SSF	404384.823	25138
722234.374	4294486.394	9129	14-Nov-13	11142013-002.SSF	404385.773	25139
722234.377	4294486.388	8462	14-Nov-13	11142013-002.SSF	404386.737	25140
722234.371	4294486.401	8145	14-Nov-13	11142013-002.SSF	404387.778	25141
722234.371	4294486.426	8546	14-Nov-13	11142013-002.SSF	404388.731	25142
722234.367	4294486.452	8286	14-Nov-13	11142013-002.SSF	404389.887	25143
722234.367	4294486.456	7171	14-Nov-13	11142013-002.SSF	404390.778	25144
722234.372	4294486.454	8602	14-Nov-13	11142013-002.SSF	404391.789	25145
722234.374	4294486.45	7640	14-Nov-13	11142013-002.SSF	404392.788	25146
722234.368	4294486.45	8540	14-Nov-13	11142013-002.SSF	404393.871	25147
722234.369	4294486.451	7775	14-Nov-13	11142013-002.SSF	404394.741	25148
722234.372	4294486.448	8843	14-Nov-13	11142013-002.SSF	404395.828	25149
722234.367	4294486.448	8511	14-Nov-13	11142013-002.SSF	404396.765	25150
722234.364	4294486.442	9387	14-Nov-13	11142013-002.SSF	404397.796	25151
722234.361	4294486.43	8347	14-Nov-13	11142013-002.SSF	404398.721	25152
722234.355	4294486.424	8926	14-Nov-13	11142013-002.SSF	404399.834	25153
722234.347	4294486.408	8471	14-Nov-13	11142013-002.SSF	404400.764	25154
722234.398	4294486.371	6738	14-Nov-13	11142013-002.SSF	404401.816	25155
722234.584	4294486.297	8344	14-Nov-13	11142013-002.SSF	404402.743	25156
722234.983	4294486.032	8266	14-Nov-13	11142013-002.SSF	404403.84	25157
722235.415	4294485.412	8666	14-Nov-13	11142013-002.SSF	404404.723	25158
722236.189	4294484.293	8796	14-Nov-13	11142013-002.SSF	404405.859	25159
722237.074	4294483.509	8049	14-Nov-13	11142013-002.SSF	404406.82	25160

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722237.885	4294482.633	8612	14-Nov-13	11142013-002.SSF	404407.816	25161
722238.506	4294481.668	8813	14-Nov-13	11142013-002.SSF	404408.749	25162
722239.341	4294480.568	8173	14-Nov-13	11142013-002.SSF	404409.866	25163
722240.171	4294479.836	9093	14-Nov-13	11142013-002.SSF	404410.788	25164
722241.053	4294478.966	8123	14-Nov-13	11142013-002.SSF	404411.815	25165
722241.875	4294478.055	8210	14-Nov-13	11142013-002.SSF	404412.82	25166
722242.811	4294477.358	8982	14-Nov-13	11142013-002.SSF	404413.852	25167
722243.637	4294476.72	7975	14-Nov-13	11142013-002.SSF	404414.786	25168
722244.37	4294475.976	8504	14-Nov-13	11142013-002.SSF	404415.853	25169
722245.028	4294475.284	8906	14-Nov-13	11142013-002.SSF	404416.779	25170
722245.69	4294474.426	9456	14-Nov-13	11142013-002.SSF	404417.859	25171
722245.785	4294474.093	8874	14-Nov-13	11142013-002.SSF	404418.697	25172
722245.647	4294473.955	8248	14-Nov-13	11142013-002.SSF	404419.849	25173
722245.584	4294473.942	9232	14-Nov-13	11142013-002.SSF	404420.742	25174
722245.607	4294474.082	8098	14-Nov-13	11142013-002.SSF	404421.813	25175
722245.688	4294474.227	8534	14-Nov-13	11142013-002.SSF	404422.73	25176
722245.704	4294474.298	7533	14-Nov-13	11142013-002.SSF	404423.789	25177
722245.714	4294474.295	7973	14-Nov-13	11142013-002.SSF	404424.793	25178
722245.676	4294474.245	8023	14-Nov-13	11142013-002.SSF	404425.881	25179
722245.654	4294474.22	8606	14-Nov-13	11142013-002.SSF	404426.73	25180
722245.649	4294474.214	8391	14-Nov-13	11142013-002.SSF	404427.882	25181
722245.671	4294474.371	8610	14-Nov-13	11142013-002.SSF	404526.806	25182
722245.682	4294474.317	8392	14-Nov-13	11142013-002.SSF	404527.766	25183
722245.901	4294474.144	7408	14-Nov-13	11142013-002.SSF	404528.708	25184
722246.407	4294473.381	8332	14-Nov-13	11142013-002.SSF	404529.822	25185
722246.812	4294472.252	8683	14-Nov-13	11142013-002.SSF	404530.766	25186
722247.411	4294471.027	8590	14-Nov-13	11142013-002.SSF	404531.801	25187
722248.308	4294470.045	8537	14-Nov-13	11142013-002.SSF	404532.764	25188
722249.295	4294469.06	8494	14-Nov-13	11142013-002.SSF	404533.778	25189
722250.055	4294467.982	9713	14-Nov-13	11142013-002.SSF	404534.705	25190
722250.857	4294466.652	9508	14-Nov-13	11142013-002.SSF	404535.866	25191
722251.485	4294465.646	9067	14-Nov-13	11142013-002.SSF	404536.783	25192
722252.606	4294464.423	8866	14-Nov-13	11142013-002.SSF	404537.866	25193
722253.615	4294463.6	8606	14-Nov-13	11142013-002.SSF	404538.733	25194
722254.642	4294462.65	8511	14-Nov-13	11142013-002.SSF	404539.797	25195
722255.37	4294461.539	9118	14-Nov-13	11142013-002.SSF	404540.696	25196
722256.199	4294460.154	8789	14-Nov-13	11142013-002.SSF	404541.764	25197
722256.926	4294459.08	8737	14-Nov-13	11142013-002.SSF	404542.708	25198
722257.972	4294458.052	8664	14-Nov-13	11142013-002.SSF	404543.737	25199
722259.005	4294457.048	8886	14-Nov-13	11142013-002.SSF	404544.715	25200
722259.985	4294455.724	9691	14-Nov-13	11142013-002.SSF	404545.801	25201
722260.565	4294454.622	10072	14-Nov-13	11142013-002.SSF	404546.641	25202
722261.283	4294453.313	9418	14-Nov-13	11142013-002.SSF	404547.706	25203
722262.089	4294452.25	8984	14-Nov-13	11142013-002.SSF	404548.63	25204
722263.046	4294450.987	9326	14-Nov-13	11142013-002.SSF	404549.763	25205
722263.746	4294449.805	8631	14-Nov-13	11142013-002.SSF	404550.758	25206
722264.438	4294448.481	8697	14-Nov-13	11142013-002.SSF	404551.841	25207

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722265.185	4294447.552	8714	14-Nov-13	11142013-002.SSF	404552.722	25208
722266.225	4294446.59	8748	14-Nov-13	11142013-002.SSF	404553.761	25209
722267.096	4294445.653	8787	14-Nov-13	11142013-002.SSF	404554.758	25210
722267.892	4294444.399	9246	14-Nov-13	11142013-002.SSF	404555.816	25211
722268.603	4294443.315	8401	14-Nov-13	11142013-002.SSF	404556.751	25212
722269.705	4294442.25	8130	14-Nov-13	11142013-002.SSF	404557.791	25213
722270.921	4294441.324	8602	14-Nov-13	11142013-002.SSF	404558.766	25214
722272.072	4294440.292	8870	14-Nov-13	11142013-002.SSF	404559.807	25215
722272.983	4294439.045	9387	14-Nov-13	11142013-002.SSF	404560.785	25216
722273.777	4294437.676	9637	14-Nov-13	11142013-002.SSF	404561.804	25217
722274.612	4294436.684	9159	14-Nov-13	11142013-002.SSF	404562.688	25218
722275.887	4294435.568	9039	14-Nov-13	11142013-002.SSF	404563.848	25219
722276.592	4294434.77	8500	14-Nov-13	11142013-002.SSF	404564.687	25220
722277.406	4294433.589	7585	14-Nov-13	11142013-002.SSF	404565.713	25221
722278.13	4294432.368	8166	14-Nov-13	11142013-002.SSF	404566.639	25222
722279.029	4294431.103	8971	14-Nov-13	11142013-002.SSF	404567.709	25223
722280.125	4294430.047	9202	14-Nov-13	11142013-002.SSF	404568.713	25224
722281.212	4294428.961	8300	14-Nov-13	11142013-002.SSF	404569.735	25225
722282.049	4294427.705	8885	14-Nov-13	11142013-002.SSF	404570.693	25226
722282.868	4294426.191	8971	14-Nov-13	11142013-002.SSF	404571.782	25227
722283.736	4294425.123	8692	14-Nov-13	11142013-002.SSF	404572.743	25228
722284.939	4294424.212	8413	14-Nov-13	11142013-002.SSF	404573.754	25229
722285.945	4294423.345	8226	14-Nov-13	11142013-002.SSF	404574.691	25230
722286.95	4294422.012	9023	14-Nov-13	11142013-002.SSF	404575.777	25231
722287.697	4294420.744	8075	14-Nov-13	11142013-002.SSF	404576.721	25232
722288.596	4294419.519	8079	14-Nov-13	11142013-002.SSF	404577.765	25233
722289.657	4294418.485	9519	14-Nov-13	11142013-002.SSF	404578.721	25234
722290.871	4294417.348	9280	14-Nov-13	11142013-002.SSF	404579.848	25235
722291.633	4294416.386	8380	14-Nov-13	11142013-002.SSF	404580.735	25236
722292.251	4294415.245	8425	14-Nov-13	11142013-002.SSF	404581.761	25237
722292.812	4294414.372	8166	14-Nov-13	11142013-002.SSF	404582.674	25238
722293.843	4294413.447	9241	14-Nov-13	11142013-002.SSF	404583.791	25239
722294.608	4294412.78	8550	14-Nov-13	11142013-002.SSF	404584.665	25240
722295.256	4294411.876	8347	14-Nov-13	11142013-002.SSF	404585.731	25241
722295.677	4294411.098	8837	14-Nov-13	11142013-002.SSF	404586.597	25242
722296.359	4294410.145	9439	14-Nov-13	11142013-002.SSF	404587.748	25243
722297.068	4294409.513	8029	14-Nov-13	11142013-002.SSF	404588.608	25244
722297.979	4294408.69	8187	14-Nov-13	11142013-002.SSF	404589.747	25245
722298.484	4294407.892	8257	14-Nov-13	11142013-002.SSF	404590.681	25246
722298.942	4294406.903	9894	14-Nov-13	11142013-002.SSF	404591.75	25247
722299.536	4294406.052	9343	14-Nov-13	11142013-002.SSF	404592.715	25248
722300.493	4294405.178	9506	14-Nov-13	11142013-002.SSF	404593.749	25249
722301.336	4294404.357	8166	14-Nov-13	11142013-002.SSF	404594.742	25250
722301.924	4294403.402	8641	14-Nov-13	11142013-002.SSF	404595.792	25251
722302.28	4294402.456	8040	14-Nov-13	11142013-002.SSF	404596.675	25252
722302.929	4294401.409	8010	14-Nov-13	11142013-002.SSF	404597.754	25253
722303.776	4294400.695	7822	14-Nov-13	11142013-002.SSF	404598.71	25254

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722304.669	4294399.921	8375	14-Nov-13	11142013-002.SSF	404599.755	25255
722305.238	4294399.063	8844	14-Nov-13	11142013-002.SSF	404600.604	25256
722305.908	4294397.844	8511	14-Nov-13	11142013-002.SSF	404601.684	25257
722306.682	4294396.917	7857	14-Nov-13	11142013-002.SSF	404602.596	25258
722307.714	4294395.978	8954	14-Nov-13	11142013-002.SSF	404603.674	25259
722308.463	4294395.064	8358	14-Nov-13	11142013-002.SSF	404604.592	25260
722309.2	4294393.717	8119	14-Nov-13	11142013-002.SSF	404605.712	25261
722309.864	4294392.565	7909	14-Nov-13	11142013-002.SSF	404606.63	25262
722311.098	4294391.297	8997	14-Nov-13	11142013-002.SSF	404607.757	25263
722312.046	4294390.54	8969	14-Nov-13	11142013-002.SSF	404608.594	25264
722313.086	4294389.447	8212	14-Nov-13	11142013-002.SSF	404609.724	25265
722313.813	4294388.433	9343	14-Nov-13	11142013-002.SSF	404610.643	25266
722314.73	4294387.322	8905	14-Nov-13	11142013-002.SSF	404611.718	25267
722315.725	4294386.434	8706	14-Nov-13	11142013-002.SSF	404612.591	25268
722316.999	4294385.202	8386	14-Nov-13	11142013-002.SSF	404613.743	25269
722317.736	4294384.09	8126	14-Nov-13	11142013-002.SSF	404614.624	25270
722318.545	4294382.49	6921	14-Nov-13	11142013-002.SSF	404615.781	25271
722319.251	4294381.453	7250	14-Nov-13	11142013-002.SSF	404616.641	25272
722320.363	4294380.401	8232	14-Nov-13	11142013-002.SSF	404617.708	25273
722321.22	4294379.519	7968	14-Nov-13	11142013-002.SSF	404618.646	25274
722322.02	4294378.296	8292	14-Nov-13	11142013-002.SSF	404619.703	25275
722322.677	4294377.14	9453	14-Nov-13	11142013-002.SSF	404620.663	25276
722323.594	4294376.088	8663	14-Nov-13	11142013-002.SSF	404621.697	25277
722324.621	4294375.291	8465	14-Nov-13	11142013-002.SSF	404622.643	25278
722325.603	4294374.389	9076	14-Nov-13	11142013-002.SSF	404623.698	25279
722326.334	4294373.253	8539	14-Nov-13	11142013-002.SSF	404624.658	25280
722327.092	4294371.785	8044	14-Nov-13	11142013-002.SSF	404625.739	25281
722328.115	4294370.581	8041	14-Nov-13	11142013-002.SSF	404626.696	25282
722329.458	4294369.449	6480	14-Nov-13	11142013-002.SSF	404627.813	25283
722330.254	4294368.677	7800	14-Nov-13	11142013-002.SSF	404628.66	25284
722331.287	4294367.289	8520	14-Nov-13	11142013-002.SSF	404629.802	25285
722332.056	4294366.169	8250	14-Nov-13	11142013-002.SSF	404630.643	25286
722333.303	4294364.853	8152	14-Nov-13	11142013-002.SSF	404631.781	25287
722334.363	4294363.909	9178	14-Nov-13	11142013-002.SSF	404632.744	25288
722335.176	4294362.795	8504	14-Nov-13	11142013-002.SSF	404633.782	25289
722335.84	4294361.602	8726	14-Nov-13	11142013-002.SSF	404634.748	25290
722336.644	4294360.336	9351	14-Nov-13	11142013-002.SSF	404635.796	25291
722337.589	4294359.392	9477	14-Nov-13	11142013-002.SSF	404636.648	25292
722338.844	4294358.22	8339	14-Nov-13	11142013-002.SSF	404637.782	25293
722339.63	4294357.132	9645	14-Nov-13	11142013-002.SSF	404638.697	25294
722340.435	4294355.849	10121	14-Nov-13	11142013-002.SSF	404639.722	25295
722341.367	4294354.754	8080	14-Nov-13	11142013-002.SSF	404640.721	25296
722342.345	4294353.871	8800	14-Nov-13	11142013-002.SSF	404641.699	25297
722343.124	4294353.011	8980	14-Nov-13	11142013-002.SSF	404642.697	25298
722343.868	4294351.807	8905	14-Nov-13	11142013-002.SSF	404643.761	25299
722344.613	4294350.666	9156	14-Nov-13	11142013-002.SSF	404644.694	25300
722345.701	4294349.529	9219	14-Nov-13	11142013-002.SSF	404645.766	25301

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722346.565	4294348.722	9444	14-Nov-13	11142013-002.SSF	404646.688	25302
722347.285	4294347.68	8571	14-Nov-13	11142013-002.SSF	404647.716	25303
722347.877	4294346.582	7962	14-Nov-13	11142013-002.SSF	404648.647	25304
722348.817	4294345.479	8890	14-Nov-13	11142013-002.SSF	404649.742	25305
722349.624	4294344.739	8882	14-Nov-13	11142013-002.SSF	404650.599	25306
722350.412	4294343.669	8280	14-Nov-13	11142013-002.SSF	404651.638	25307
722351.004	4294342.448	8580	14-Nov-13	11142013-002.SSF	404652.597	25308
722351.854	4294341.098	8685	14-Nov-13	11142013-002.SSF	404653.714	25309
722352.761	4294340.16	8321	14-Nov-13	11142013-002.SSF	404654.612	25310
722353.781	4294338.995	8710	14-Nov-13	11142013-002.SSF	404655.72	25311
722354.384	4294338.024	8357	14-Nov-13	11142013-002.SSF	404656.607	25312
722355.059	4294336.79	8209	14-Nov-13	11142013-002.SSF	404657.712	25313
722355.899	4294335.738	9132	14-Nov-13	11142013-002.SSF	404658.638	25314
722356.974	4294334.512	8733	14-Nov-13	11142013-002.SSF	404659.721	25315
722357.873	4294333.239	8393	14-Nov-13	11142013-002.SSF	404660.744	25316
722358.702	4294331.891	9478	14-Nov-13	11142013-002.SSF	404661.784	25317
722359.555	4294330.787	9719	14-Nov-13	11142013-002.SSF	404662.726	25318
722360.548	4294329.716	7980	14-Nov-13	11142013-002.SSF	404663.795	25319
722361.248	4294328.852	8205	14-Nov-13	11142013-002.SSF	404664.68	25320
722361.941	4294327.733	8801	14-Nov-13	11142013-002.SSF	404665.728	25321
722362.495	4294326.814	9700	14-Nov-13	11142013-002.SSF	404666.67	25322
722363.169	4294326.226	8455	14-Nov-13	11142013-002.SSF	404667.773	25323
722363.698	4294326.25	8383	14-Nov-13	11142013-002.SSF	404668.629	25324
722364.446	4294326.748	8636	14-Nov-13	11142013-002.SSF	404669.758	25325
722364.829	4294327.13	7619	14-Nov-13	11142013-002.SSF	404670.651	25326
722364.841	4294327.591	8594	14-Nov-13	11142013-002.SSF	404671.784	25327
722364.225	4294328.215	7998	14-Nov-13	11142013-002.SSF	404672.702	25328
722363.102	4294329.094	7219	14-Nov-13	11142013-002.SSF	404673.807	25329
722362.307	4294329.809	7894	14-Nov-13	11142013-002.SSF	404674.658	25330
722361.461	4294330.948	7913	14-Nov-13	11142013-002.SSF	404675.716	25331
722360.745	4294332.148	8578	14-Nov-13	11142013-002.SSF	404676.702	25332
722359.744	4294333.305	8054	14-Nov-13	11142013-002.SSF	404677.767	25333
722358.821	4294334.076	9123	14-Nov-13	11142013-002.SSF	404678.604	25334
722357.727	4294335.21	8400	14-Nov-13	11142013-002.SSF	404679.765	25335
722357.087	4294336.33	7350	14-Nov-13	11142013-002.SSF	404680.658	25336
722356.29	4294337.829	8317	14-Nov-13	11142013-002.SSF	404681.813	25337
722355.429	4294338.91	8079	14-Nov-13	11142013-002.SSF	404682.75	25338
722354.292	4294339.988	9070	14-Nov-13	11142013-002.SSF	404683.821	25339
722353.473	4294340.841	8837	14-Nov-13	11142013-002.SSF	404684.674	25340
722352.53	4294342.197	8929	14-Nov-13	11142013-002.SSF	404685.78	25341
722351.839	4294343.414	8712	14-Nov-13	11142013-002.SSF	404686.679	25342
722350.977	4294344.682	7548	14-Nov-13	11142013-002.SSF	404687.724	25343
722349.985	4294345.607	9237	14-Nov-13	11142013-002.SSF	404688.666	25344
722348.843	4294346.608	8399	14-Nov-13	11142013-002.SSF	404689.733	25345
722347.989	4294347.681	8340	14-Nov-13	11142013-002.SSF	404690.625	25346
722346.979	4294349.193	8235	14-Nov-13	11142013-002.SSF	404691.743	25347
722346.155	4294350.397	7848	14-Nov-13	11142013-002.SSF	404692.714	25348

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722345.174	4294351.577	8442	14-Nov-13	11142013-002.SSF	404693.738	25349
722344.286	4294352.543	8080	14-Nov-13	11142013-002.SSF	404694.639	25350
722343.301	4294353.755	7600	14-Nov-13	11142013-002.SSF	404695.77	25351
722342.616	4294354.821	8260	14-Nov-13	11142013-002.SSF	404696.61	25352
722341.756	4294356.267	8845	14-Nov-13	11142013-002.SSF	404697.695	25353
722340.888	4294357.441	9201	14-Nov-13	11142013-002.SSF	404698.647	25354
722339.704	4294358.558	8600	14-Nov-13	11142013-002.SSF	404699.721	25355
722338.794	4294359.444	7580	14-Nov-13	11142013-002.SSF	404700.62	25356
722337.795	4294360.838	8495	14-Nov-13	11142013-002.SSF	404701.725	25357
722336.97	4294362.183	8693	14-Nov-13	11142013-002.SSF	404702.663	25358
722336.011	4294363.483	9613	14-Nov-13	11142013-002.SSF	404703.728	25359
722335.051	4294364.417	9003	14-Nov-13	11142013-002.SSF	404704.65	25360
722333.956	4294365.445	9270	14-Nov-13	11142013-002.SSF	404705.683	25361
722333.027	4294366.587	8767	14-Nov-13	11142013-002.SSF	404706.643	25362
722332.127	4294368.001	9122	14-Nov-13	11142013-002.SSF	404707.705	25363
722331.278	4294369.165	9570	14-Nov-13	11142013-002.SSF	404708.647	25364
722330.079	4294370.28	9412	14-Nov-13	11142013-002.SSF	404709.707	25365
722328.985	4294371.256	8833	14-Nov-13	11142013-002.SSF	404710.679	25366
722328.067	4294372.474	9018	14-Nov-13	11142013-002.SSF	404711.647	25367
722327.287	4294373.847	8044	14-Nov-13	11142013-002.SSF	404712.64	25368
722326.41	4294375.141	8911	14-Nov-13	11142013-002.SSF	404713.739	25369
722325.415	4294376.058	7927	14-Nov-13	11142013-002.SSF	404714.672	25370
722324.196	4294377.165	8522	14-Nov-13	11142013-002.SSF	404715.791	25371
722323.383	4294378.27	7710	14-Nov-13	11142013-002.SSF	404716.711	25372
722322.533	4294379.687	8437	14-Nov-13	11142013-002.SSF	404717.795	25373
722321.857	4294380.725	7599	14-Nov-13	11142013-002.SSF	404718.641	25374
722320.726	4294382.02	8050	14-Nov-13	11142013-002.SSF	404719.726	25375
722319.657	4294383.053	8282	14-Nov-13	11142013-002.SSF	404720.638	25376
722318.558	4294384.287	8010	14-Nov-13	11142013-002.SSF	404721.746	25377
722317.715	4294385.53	8632	14-Nov-13	11142013-002.SSF	404722.714	25378
722316.871	4294386.858	9208	14-Nov-13	11142013-002.SSF	404723.706	25379
722316.016	4294387.991	8122	14-Nov-13	11142013-002.SSF	404724.617	25380
722314.736	4294389.233	8870	14-Nov-13	11142013-002.SSF	404725.781	25381
722313.915	4294390.065	8697	14-Nov-13	11142013-002.SSF	404726.636	25382
722312.988	4294391.427	8834	14-Nov-13	11142013-002.SSF	404727.79	25383
722312.346	4294392.513	9498	14-Nov-13	11142013-002.SSF	404728.639	25384
722311.38	4294393.809	8254	14-Nov-13	11142013-002.SSF	404729.753	25385
722310.421	4294394.685	9083	14-Nov-13	11142013-002.SSF	404730.662	25386
722309.456	4294395.632	7641	14-Nov-13	11142013-002.SSF	404731.712	25387
722308.813	4294396.717	8420	14-Nov-13	11142013-002.SSF	404732.697	25388
722308.225	4294397.922	8525	14-Nov-13	11142013-002.SSF	404733.694	25389
722307.391	4294399.098	8011	14-Nov-13	11142013-002.SSF	404734.699	25390
722306.325	4294400.147	9562	14-Nov-13	11142013-002.SSF	404735.715	25391
722305.43	4294401.061	9740	14-Nov-13	11142013-002.SSF	404736.627	25392
722304.497	4294402.311	8585	14-Nov-13	11142013-002.SSF	404737.741	25393
722303.806	4294403.386	9256	14-Nov-13	11142013-002.SSF	404738.651	25394
722302.816	4294404.592	8284	14-Nov-13	11142013-002.SSF	404739.732	25395

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722301.843	4294405.416	7741	14-Nov-13	11142013-002.SSF	404740.639	25396
722300.781	4294406.319	8355	14-Nov-13	11142013-002.SSF	404741.741	25397
722300.1	4294407.158	9378	14-Nov-13	11142013-002.SSF	404742.643	25398
722299.354	4294408.364	8974	14-Nov-13	11142013-002.SSF	404743.783	25399
722298.765	4294409.399	8363	14-Nov-13	11142013-002.SSF	404744.73	25400
722298.112	4294410.536	8901	14-Nov-13	11142013-002.SSF	404745.769	25401
722297.46	4294411.42	8825	14-Nov-13	11142013-002.SSF	404746.636	25402
722296.487	4294412.315	9526	14-Nov-13	11142013-002.SSF	404747.685	25403
722295.44	4294413.117	8921	14-Nov-13	11142013-002.SSF	404748.693	25404
722294.364	4294414.132	8620	14-Nov-13	11142013-002.SSF	404749.781	25405
722293.603	4294415.067	8755	14-Nov-13	11142013-002.SSF	404750.593	25406
722292.61	4294416.542	8008	14-Nov-13	11142013-002.SSF	404751.727	25407
722291.935	4294417.714	8984	14-Nov-13	11142013-002.SSF	404752.608	25408
722290.977	4294419.03	8653	14-Nov-13	11142013-002.SSF	404753.645	25409
722289.878	4294420.094	8913	14-Nov-13	11142013-002.SSF	404754.596	25410
722288.653	4294421.316	8498	14-Nov-13	11142013-002.SSF	404755.789	25411
722287.906	4294422.363	8034	14-Nov-13	11142013-002.SSF	404756.651	25412
722286.963	4294423.779	8098	14-Nov-13	11142013-002.SSF	404757.765	25413
722286.121	4294424.825	9074	14-Nov-13	11142013-002.SSF	404758.676	25414
722284.874	4294426.044	8388	14-Nov-13	11142013-002.SSF	404759.758	25415
722283.792	4294426.982	8577	14-Nov-13	11142013-002.SSF	404760.652	25416
722282.675	4294428.08	8714	14-Nov-13	11142013-002.SSF	404761.737	25417
722281.986	4294429.193	8808	14-Nov-13	11142013-002.SSF	404762.615	25418
722281.287	4294430.736	8382	14-Nov-13	11142013-002.SSF	404763.664	25419
722280.539	4294432.064	8455	14-Nov-13	11142013-002.SSF	404764.616	25420
722279.452	4294433.294	9014	14-Nov-13	11142013-002.SSF	404765.675	25421
722278.507	4294434.254	9423	14-Nov-13	11142013-002.SSF	404766.576	25422
722277.44	4294435.686	8025	14-Nov-13	11142013-002.SSF	404767.714	25423
722276.667	4294437.038	9086	14-Nov-13	11142013-002.SSF	404768.66	25424
722275.867	4294438.327	8271	14-Nov-13	11142013-002.SSF	404769.634	25425
722274.792	4294439.503	8278	14-Nov-13	11142013-002.SSF	404770.638	25426
722273.531	4294440.574	9239	14-Nov-13	11142013-002.SSF	404771.689	25427
722272.606	4294441.473	9570	14-Nov-13	11142013-002.SSF	404772.583	25428
722271.559	4294442.848	9022	14-Nov-13	11142013-002.SSF	404773.684	25429
722270.762	4294444.068	8825	14-Nov-13	11142013-002.SSF	404774.574	25430
722269.681	4294445.514	9226	14-Nov-13	11142013-002.SSF	404775.747	25431
722268.561	4294446.516	9836	14-Nov-13	11142013-002.SSF	404776.669	25432
722267.29	4294447.656	9419	14-Nov-13	11142013-002.SSF	404777.702	25433
722266.362	4294448.78	8625	14-Nov-13	11142013-002.SSF	404778.606	25434
722265.5	4294450.244	8636	14-Nov-13	11142013-002.SSF	404779.708	25435
722264.856	4294451.423	7769	14-Nov-13	11142013-002.SSF	404780.622	25436
722263.846	4294452.715	8902	14-Nov-13	11142013-002.SSF	404781.678	25437
722262.857	4294453.683	8645	14-Nov-13	11142013-002.SSF	404782.597	25438
722261.877	4294454.738	8941	14-Nov-13	11142013-002.SSF	404783.679	25439
722261.199	4294455.856	7965	14-Nov-13	11142013-002.SSF	404784.605	25440
722260.443	4294457.252	9011	14-Nov-13	11142013-002.SSF	404785.678	25441
722259.578	4294458.336	9933	14-Nov-13	11142013-002.SSF	404786.626	25442

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722258.26	4294459.443	8693	14-Nov-13	11142013-002.SSF	404787.77	25443
722257.371	4294460.275	8413	14-Nov-13	11142013-002.SSF	404788.629	25444
722256.439	4294461.551	8973	14-Nov-13	11142013-002.SSF	404789.67	25445
722255.659	4294462.781	8243	14-Nov-13	11142013-002.SSF	404790.59	25446
722254.625	4294464.019	8870	14-Nov-13	11142013-002.SSF	404791.722	25447
722253.677	4294464.858	9417	14-Nov-13	11142013-002.SSF	404792.549	25448
722252.388	4294466.155	8144	14-Nov-13	11142013-002.SSF	404793.695	25449
722251.624	4294467.314	8216	14-Nov-13	11142013-002.SSF	404794.593	25450
722250.857	4294468.785	8294	14-Nov-13	11142013-002.SSF	404795.644	25451
722250.174	4294469.983	8313	14-Nov-13	11142013-002.SSF	404796.578	25452
722249.07	4294471.181	9218	14-Nov-13	11142013-002.SSF	404797.729	25453
722248.084	4294471.966	8424	14-Nov-13	11142013-002.SSF	404798.589	25454
722247.011	4294473.092	9336	14-Nov-13	11142013-002.SSF	404799.734	25455
722246.346	4294474.263	9084	14-Nov-13	11142013-002.SSF	404800.67	25456
722245.589	4294475.653	9111	14-Nov-13	11142013-002.SSF	404801.72	25457
722244.714	4294476.796	9657	14-Nov-13	11142013-002.SSF	404802.61	25458
722243.374	4294478.085	8834	14-Nov-13	11142013-002.SSF	404803.722	25459
722242.385	4294479.125	8508	14-Nov-13	11142013-002.SSF	404804.661	25460
722241.523	4294480.432	8517	14-Nov-13	11142013-002.SSF	404805.629	25461
722240.759	4294481.767	8939	14-Nov-13	11142013-002.SSF	404806.558	25462
722239.818	4294483.088	7905	14-Nov-13	11142013-002.SSF	404807.631	25463
722238.708	4294484.192	7496	14-Nov-13	11142013-002.SSF	404808.646	25464
722237.555	4294485.314	8564	14-Nov-13	11142013-002.SSF	404809.656	25465
722236.599	4294486.54	8351	14-Nov-13	11142013-002.SSF	404810.604	25466
722235.759	4294487.974	8417	14-Nov-13	11142013-002.SSF	404811.619	25467
722235.063	4294489.159	8554	14-Nov-13	11142013-002.SSF	404812.518	25468
722233.888	4294490.513	9158	14-Nov-13	11142013-002.SSF	404813.634	25469
722232.778	4294491.513	9459	14-Nov-13	11142013-002.SSF	404814.56	25470
722231.666	4294492.769	9625	14-Nov-13	11142013-002.SSF	404815.726	25471
722230.907	4294493.939	10026	14-Nov-13	11142013-002.SSF	404816.62	25472
722229.944	4294495.362	8596	14-Nov-13	11142013-002.SSF	404817.709	25473
722228.938	4294496.443	9109	14-Nov-13	11142013-002.SSF	404818.607	25474
722227.626	4294497.606	8457	14-Nov-13	11142013-002.SSF	404819.713	25475
722226.775	4294498.604	9194	14-Nov-13	11142013-002.SSF	404820.643	25476
722225.93	4294500.009	8478	14-Nov-13	11142013-002.SSF	404821.669	25477
722225.105	4294501.335	9529	14-Nov-13	11142013-002.SSF	404822.577	25478
722223.89	4294502.806	9372	14-Nov-13	11142013-002.SSF	404823.706	25479
722222.95	4294503.682	8643	14-Nov-13	11142013-002.SSF	404824.573	25480
722222.091	4294504.669	9210	14-Nov-13	11142013-002.SSF	404825.65	25481
722221.657	4294505.648	7822	14-Nov-13	11142013-002.SSF	404826.557	25482
722221.471	4294506.951	7655	14-Nov-13	11142013-002.SSF	404827.647	25483
722221.72	4294507.768	7434	14-Nov-13	11142013-002.SSF	404828.53	25484
722222.41	4294508.361	8038	14-Nov-13	11142013-002.SSF	404829.694	25485
722223.103	4294508.589	7649	14-Nov-13	11142013-002.SSF	404830.572	25486
722224.359	4294508.748	8242	14-Nov-13	11142013-002.SSF	404831.736	25487
722225.373	4294508.62	7910	14-Nov-13	11142013-002.SSF	404832.641	25488
722226.189	4294507.864	8457	14-Nov-13	11142013-002.SSF	404833.735	25489

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722226.68	4294506.825	9164	14-Nov-13	11142013-002.SSF	404834.607	25490
722227.418	4294505.332	8351	14-Nov-13	11142013-002.SSF	404835.72	25491
722228.359	4294504.252	9017	14-Nov-13	11142013-002.SSF	404836.622	25492
722229.614	4294503.124	8074	14-Nov-13	11142013-002.SSF	404837.694	25493
722230.383	4294502.19	8948	14-Nov-13	11142013-002.SSF	404838.546	25494
722231.067	4294500.853	8717	14-Nov-13	11142013-002.SSF	404839.629	25495
722231.641	4294499.651	8629	14-Nov-13	11142013-002.SSF	404840.552	25496
722232.636	4294498.37	8817	14-Nov-13	11142013-002.SSF	404841.615	25497
722233.691	4294497.298	9104	14-Nov-13	11142013-002.SSF	404842.595	25498
722234.682	4294496.168	8516	14-Nov-13	11142013-002.SSF	404843.633	25499
722235.544	4294494.912	7799	14-Nov-13	11142013-002.SSF	404844.605	25500
722236.405	4294493.429	8429	14-Nov-13	11142013-002.SSF	404845.667	25501
722237.249	4294492.309	7957	14-Nov-13	11142013-002.SSF	404846.599	25502
722238.311	4294491.236	8499	14-Nov-13	11142013-002.SSF	404847.62	25503
722239.226	4294490.254	7704	14-Nov-13	11142013-002.SSF	404848.551	25504
722240.308	4294488.791	8106	14-Nov-13	11142013-002.SSF	404849.709	25505
722241.086	4294487.569	8026	14-Nov-13	11142013-002.SSF	404850.559	25506
722242.027	4294486.153	8186	14-Nov-13	11142013-002.SSF	404851.678	25507
722242.86	4294485.209	9066	14-Nov-13	11142013-002.SSF	404852.58	25508
722243.864	4294484.157	9796	14-Nov-13	11142013-002.SSF	404853.618	25509
722244.664	4294483.139	9439	14-Nov-13	11142013-002.SSF	404854.54	25510
722245.432	4294481.791	9799	14-Nov-13	11142013-002.SSF	404855.628	25511
722246.125	4294480.668	8960	14-Nov-13	11142013-002.SSF	404856.587	25512
722247.191	4294479.586	8420	14-Nov-13	11142013-002.SSF	404857.689	25513
722248.127	4294478.699	8165	14-Nov-13	11142013-002.SSF	404858.597	25514
722249.131	4294477.425	9601	14-Nov-13	11142013-002.SSF	404859.672	25515
722249.918	4294476.175	7410	14-Nov-13	11142013-002.SSF	404860.632	25516
722250.776	4294474.995	8092	14-Nov-13	11142013-002.SSF	404861.654	25517
722251.642	4294474.094	8923	14-Nov-13	11142013-002.SSF	404862.591	25518
722252.6	4294473.061	8291	14-Nov-13	11142013-002.SSF	404863.683	25519
722253.364	4294471.984	8942	14-Nov-13	11142013-002.SSF	404864.596	25520
722254.246	4294470.508	8055	14-Nov-13	11142013-002.SSF	404865.722	25521
722254.97	4294469.535	8643	14-Nov-13	11142013-002.SSF	404866.562	25522
722256.234	4294468.306	7831	14-Nov-13	11142013-002.SSF	404867.707	25523
722257.227	4294467.34	7777	14-Nov-13	11142013-002.SSF	404868.613	25524
722258.295	4294466.175	8124	14-Nov-13	11142013-002.SSF	404869.692	25525
722259.042	4294465.196	9261	14-Nov-13	11142013-002.SSF	404870.486	25526
722260.064	4294463.746	9035	14-Nov-13	11142013-002.SSF	404871.608	25527
722261.049	4294462.655	8348	14-Nov-13	11142013-002.SSF	404872.529	25528
722262.369	4294461.472	8897	14-Nov-13	11142013-002.SSF	404873.658	25529
722263.166	4294460.615	8494	14-Nov-13	11142013-002.SSF	404874.51	25530
722264.202	4294459.103	8783	14-Nov-13	11142013-002.SSF	404875.736	25531
722264.96	4294457.789	7476	14-Nov-13	11142013-002.SSF	404876.63	25532
722265.925	4294456.424	8139	14-Nov-13	11142013-002.SSF	404877.698	25533
722266.947	4294455.521	8274	14-Nov-13	11142013-002.SSF	404878.567	25534
722268.28	4294454.341	8788	14-Nov-13	11142013-002.SSF	404879.702	25535
722269.236	4294453.218	9697	14-Nov-13	11142013-002.SSF	404880.633	25536

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722270.237	4294451.811	8754	14-Nov-13	11142013-002.SSF	404881.717	25537
722270.993	4294450.844	8068	14-Nov-13	11142013-002.SSF	404882.555	25538
722272.241	4294449.625	8227	14-Nov-13	11142013-002.SSF	404883.685	25539
722273.265	4294448.569	7966	14-Nov-13	11142013-002.SSF	404884.624	25540
722274.26	4294447.267	8921	14-Nov-13	11142013-002.SSF	404885.658	25541
722275.078	4294445.967	8680	14-Nov-13	11142013-002.SSF	404886.596	25542
722276.032	4294444.632	8680	14-Nov-13	11142013-002.SSF	404887.656	25543
722277.058	4294443.624	8650	14-Nov-13	11142013-002.SSF	404888.585	25544
722278.237	4294442.466	8822	14-Nov-13	11142013-002.SSF	404889.712	25545
722278.967	4294441.509	8175	14-Nov-13	11142013-002.SSF	404890.564	25546
722279.816	4294440.158	8373	14-Nov-13	11142013-002.SSF	404891.666	25547
722280.58	4294439.097	9533	14-Nov-13	11142013-002.SSF	404892.615	25548
722281.715	4294438.061	8893	14-Nov-13	11142013-002.SSF	404893.654	25549
722282.775	4294437.121	7983	14-Nov-13	11142013-002.SSF	404894.571	25550
722283.788	4294435.868	8355	14-Nov-13	11142013-002.SSF	404895.607	25551
722284.535	4294434.625	10368	14-Nov-13	11142013-002.SSF	404896.53	25552
722285.345	4294433.328	9402	14-Nov-13	11142013-002.SSF	404897.568	25553
722286.303	4294432.279	9010	14-Nov-13	11142013-002.SSF	404898.565	25554
722287.335	4294431.241	9722	14-Nov-13	11142013-002.SSF	404899.617	25555
722288.199	4294430.215	9300	14-Nov-13	11142013-002.SSF	404900.531	25556
722289.28	4294428.703	8625	14-Nov-13	11142013-002.SSF	404901.645	25557
722290.12	4294427.607	9296	14-Nov-13	11142013-002.SSF	404902.526	25558
722291.281	4294426.438	9044	14-Nov-13	11142013-002.SSF	404903.637	25559
722292.237	4294425.469	8681	14-Nov-13	11142013-002.SSF	404904.548	25560
722293.264	4294424.124	9040	14-Nov-13	11142013-002.SSF	404905.686	25561
722293.966	4294422.922	8440	14-Nov-13	11142013-002.SSF	404906.598	25562
722294.781	4294421.644	8650	14-Nov-13	11142013-002.SSF	404907.63	25563
722295.813	4294420.484	8282	14-Nov-13	11142013-002.SSF	404908.582	25564
722297.134	4294419.123	8340	14-Nov-13	11142013-002.SSF	404909.697	25565
722298.015	4294418.085	9105	14-Nov-13	11142013-002.SSF	404910.578	25566
722298.926	4294416.787	8516	14-Nov-13	11142013-002.SSF	404911.59	25567
722299.771	4294415.55	8759	14-Nov-13	11142013-002.SSF	404912.587	25568
722300.748	4294414.552	9570	14-Nov-13	11142013-002.SSF	404913.665	25569
722301.524	4294413.943	9165	14-Nov-13	11142013-002.SSF	404914.52	25570
722302.371	4294413.218	9200	14-Nov-13	11142013-002.SSF	404915.659	25571
722302.844	4294412.663	8900	14-Nov-13	11142013-002.SSF	404916.573	25572
722303.262	4294411.905	8045	14-Nov-13	11142013-002.SSF	404917.69	25573
722303.549	4294411.213	8881	14-Nov-13	11142013-002.SSF	404918.616	25574
722303.954	4294410.45	8910	14-Nov-13	11142013-002.SSF	404919.669	25575
722304.459	4294409.845	8437	14-Nov-13	11142013-002.SSF	404920.572	25576
722305.243	4294409.141	9039	14-Nov-13	11142013-002.SSF	404921.642	25577
722305.934	4294408.41	8950	14-Nov-13	11142013-002.SSF	404922.582	25578
722306.548	4294407.447	8837	14-Nov-13	11142013-002.SSF	404923.705	25579
722306.902	4294406.622	8899	14-Nov-13	11142013-002.SSF	404924.619	25580
722307.245	4294405.661	9694	14-Nov-13	11142013-002.SSF	404925.642	25581
722307.674	4294404.853	8183	14-Nov-13	11142013-002.SSF	404926.545	25582
722308.471	4294403.985	7806	14-Nov-13	11142013-002.SSF	404927.653	25583

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722309.133	4294403.225	8161	14-Nov-13	11142013-002.SSF	404928.57	25584
722309.865	4294402.088	9060	14-Nov-13	11142013-002.SSF	404929.629	25585
722310.54	4294401.009	8205	14-Nov-13	11142013-002.SSF	404930.538	25586
722311.532	4294399.826	8081	14-Nov-13	11142013-002.SSF	404931.664	25587
722312.308	4294399.036	8660	14-Nov-13	11142013-002.SSF	404932.557	25588
722313.139	4294397.886	9992	14-Nov-13	11142013-002.SSF	404933.697	25589
722313.662	4294396.931	8888	14-Nov-13	11142013-002.SSF	404934.535	25590
722314.516	4294395.789	9032	14-Nov-13	11142013-002.SSF	404935.659	25591
722315.445	4294395.002	8618	14-Nov-13	11142013-002.SSF	404936.596	25592
722316.448	4294394.164	9384	14-Nov-13	11142013-002.SSF	404937.687	25593
722317.212	4294393.327	7716	14-Nov-13	11142013-002.SSF	404938.546	25594
722318.269	4294392.032	9039	14-Nov-13	11142013-002.SSF	404939.689	25595
722319.163	4294391.043	8079	14-Nov-13	11142013-002.SSF	404940.568	25596
722320.277	4294389.905	8800	14-Nov-13	11142013-002.SSF	404941.731	25597
722320.986	4294389.052	9130	14-Nov-13	11142013-002.SSF	404942.616	25598
722321.822	4294387.859	8702	14-Nov-13	11142013-002.SSF	404943.643	25599
722322.616	4294386.785	8595	14-Nov-13	11142013-002.SSF	404944.578	25600
722323.688	4294385.772	7668	14-Nov-13	11142013-002.SSF	404945.598	25601
722324.765	4294384.949	8727	14-Nov-13	11142013-002.SSF	404946.513	25602
722325.917	4294383.937	8632	14-Nov-13	11142013-002.SSF	404947.668	25603
722326.674	4294382.982	7648	14-Nov-13	11142013-002.SSF	404948.5	25604
722327.648	4294381.504	8212	14-Nov-13	11142013-002.SSF	404949.627	25605
722328.476	4294380.528	8443	14-Nov-13	11142013-002.SSF	404950.557	25606
722329.533	4294379.711	7750	14-Nov-13	11142013-002.SSF	404951.599	25607
722330.4	4294378.977	8387	14-Nov-13	11142013-002.SSF	404952.526	25608
722331.273	4294377.847	9206	14-Nov-13	11142013-002.SSF	404953.565	25609
722332.046	4294376.667	9351	14-Nov-13	11142013-002.SSF	404954.501	25610
722333.149	4294375.468	8698	14-Nov-13	11142013-002.SSF	404955.645	25611
722334.116	4294374.805	8774	14-Nov-13	11142013-002.SSF	404956.494	25612
722335.21	4294373.954	8013	14-Nov-13	11142013-002.SSF	404957.573	25613
722336.033	4294372.827	9023	14-Nov-13	11142013-002.SSF	404958.581	25614
722336.863	4294371.451	8945	14-Nov-13	11142013-002.SSF	404959.628	25615
722337.75	4294370.359	8056	14-Nov-13	11142013-002.SSF	404960.542	25616
722338.908	4294369.352	8794	14-Nov-13	11142013-002.SSF	404961.594	25617
722339.809	4294368.585	7238	14-Nov-13	11142013-002.SSF	404962.479	25618
722340.77	4294367.411	7479	14-Nov-13	11142013-002.SSF	404963.544	25619
722341.568	4294366.172	7900	14-Nov-13	11142013-002.SSF	404964.506	25620
722342.611	4294364.989	7465	14-Nov-13	11142013-002.SSF	404965.567	25621
722343.777	4294364.074	8436	14-Nov-13	11142013-002.SSF	404966.59	25622
722344.756	4294363.168	7989	14-Nov-13	11142013-002.SSF	404967.587	25623
722345.591	4294362.003	9287	14-Nov-13	11142013-002.SSF	404968.569	25624
722346.424	4294360.58	8471	14-Nov-13	11142013-002.SSF	404969.656	25625
722347.164	4294359.643	7968	14-Nov-13	11142013-002.SSF	404970.464	25626
722348.284	4294358.593	8172	14-Nov-13	11142013-002.SSF	404971.538	25627
722349.226	4294357.647	7773	14-Nov-13	11142013-002.SSF	404972.552	25628
722350.099	4294356.462	7823	14-Nov-13	11142013-002.SSF	404973.55	25629
722350.95	4294355.184	7655	14-Nov-13	11142013-002.SSF	404974.527	25630

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722352.009	4294354.023	7974	14-Nov-13	11142013-002.SSF	404975.537	25631
722353.087	4294353.155	8023	14-Nov-13	11142013-002.SSF	404976.449	25632
722354.198	4294352.106	8576	14-Nov-13	11142013-002.SSF	404977.584	25633
722354.927	4294351.025	8728	14-Nov-13	11142013-002.SSF	404978.522	25634
722355.709	4294349.728	7706	14-Nov-13	11142013-002.SSF	404979.576	25635
722356.671	4294348.645	7746	14-Nov-13	11142013-002.SSF	404980.568	25636
722357.774	4294347.587	8356	14-Nov-13	11142013-002.SSF	404981.611	25637
722358.698	4294346.439	8059	14-Nov-13	11142013-002.SSF	404982.575	25638
722359.596	4294345.061	8104	14-Nov-13	11142013-002.SSF	404983.615	25639
722360.414	4294344.041	8536	14-Nov-13	11142013-002.SSF	404984.526	25640
722361.52	4294343.109	9544	14-Nov-13	11142013-002.SSF	404985.618	25641
722362.365	4294342.393	8926	14-Nov-13	11142013-002.SSF	404986.518	25642
722363.27	4294341.299	9641	14-Nov-13	11142013-002.SSF	404987.607	25643
722364.011	4294340.224	9190	14-Nov-13	11142013-002.SSF	404988.512	25644
722365.058	4294339.081	7937	14-Nov-13	11142013-002.SSF	404989.555	25645
722366.124	4294338.136	8734	14-Nov-13	11142013-002.SSF	404990.538	25646
722367.076	4294336.954	8693	14-Nov-13	11142013-002.SSF	404991.64	25647
722367.714	4294335.763	8473	14-Nov-13	11142013-002.SSF	404992.555	25648
722368.495	4294334.364	9198	14-Nov-13	11142013-002.SSF	404993.664	25649
722369.366	4294333.431	9169	14-Nov-13	11142013-002.SSF	404994.575	25650
722370.338	4294332.498	8982	14-Nov-13	11142013-002.SSF	404995.582	25651
722370.994	4294331.811	7705	14-Nov-13	11142013-002.SSF	404996.524	25652
722371.577	4294331.831	7596	14-Nov-13	11142013-002.SSF	404997.571	25653
722372.093	4294332.558	8139	14-Nov-13	11142013-002.SSF	404998.477	25654
722372.415	4294333.877	7914	14-Nov-13	11142013-002.SSF	404999.618	25655
722372.126	4294335.032	7558	14-Nov-13	11142013-002.SSF	405000.597	25656
722371.422	4294336.075	7919	14-Nov-13	11142013-002.SSF	405001.651	25657
722370.553	4294336.91	7590	14-Nov-13	11142013-002.SSF	405002.582	25658
722369.611	4294337.936	8017	14-Nov-13	11142013-002.SSF	405003.611	25659
722368.911	4294338.976	8814	14-Nov-13	11142013-002.SSF	405004.542	25660
722368.064	4294340.223	8503	14-Nov-13	11142013-002.SSF	405005.655	25661
722367.218	4294341.121	7196	14-Nov-13	11142013-002.SSF	405006.514	25662
722365.96	4294342.202	8699	14-Nov-13	11142013-002.SSF	405007.613	25663
722365.061	4294343.153	8744	14-Nov-13	11142013-002.SSF	405008.52	25664
722364.295	4294344.371	8126	14-Nov-13	11142013-002.SSF	405009.587	25665
722363.697	4294345.433	8001	14-Nov-13	11142013-002.SSF	405010.546	25666
722362.847	4294346.509	6560	14-Nov-13	11142013-002.SSF	405011.57	25667
722361.836	4294347.454	8480	14-Nov-13	11142013-002.SSF	405012.531	25668
722360.814	4294348.469	7940	14-Nov-13	11142013-002.SSF	405013.623	25669
722360.174	4294349.412	8135	14-Nov-13	11142013-002.SSF	405014.592	25670
722359.537	4294350.432	7703	14-Nov-13	11142013-002.SSF	405015.616	25671
722358.756	4294351.3	9186	14-Nov-13	11142013-002.SSF	405016.567	25672
722357.767	4294352.245	8776	14-Nov-13	11142013-002.SSF	405017.685	25673
722357.139	4294353.095	9484	14-Nov-13	11142013-002.SSF	405018.531	25674
722356.372	4294354.383	8821	14-Nov-13	11142013-002.SSF	405019.67	25675
722355.756	4294355.215	8625	14-Nov-13	11142013-002.SSF	405020.462	25676
722354.706	4294356.242	8576	14-Nov-13	11142013-002.SSF	405021.592	25677

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722353.903	4294357.037	8924	14-Nov-13	11142013-002.SSF	405022.452	25678
722353.001	4294358.311	8381	14-Nov-13	11142013-002.SSF	405023.625	25679
722352.461	4294359.224	8065	14-Nov-13	11142013-002.SSF	405024.454	25680
722351.478	4294360.337	7416	14-Nov-13	11142013-002.SSF	405025.605	25681
722350.342	4294361.205	8124	14-Nov-13	11142013-002.SSF	405026.558	25682
722349.229	4294362.355	7761	14-Nov-13	11142013-002.SSF	405027.599	25683
722348.484	4294363.56	9410	14-Nov-13	11142013-002.SSF	405028.524	25684
722347.69	4294364.935	9912	14-Nov-13	11142013-002.SSF	405029.632	25685
722346.934	4294365.928	7728	14-Nov-13	11142013-002.SSF	405030.547	25686
722345.917	4294367.017	8592	14-Nov-13	11142013-002.SSF	405031.623	25687
722345.206	4294368.014	9648	14-Nov-13	11142013-002.SSF	405032.517	25688
722344.541	4294369.315	8292	14-Nov-13	11142013-002.SSF	405033.622	25689
722343.883	4294370.327	8073	14-Nov-13	11142013-002.SSF	405034.5649	25690
722342.892	4294371.321	7778	14-Nov-13	11142013-002.SSF	405035.579	25691
722341.987	4294372.199	9354	14-Nov-13	11142013-002.SSF	405036.48	25692
722341.212	4294373.314	8908	14-Nov-13	11142013-002.SSF	405037.5229	25693
722340.731	4294374.384	8227	14-Nov-13	11142013-002.SSF	405038.531	25694
722340.322	4294375.27	8716	14-Nov-13	11142013-002.SSF	405039.5389	25695
722339.693	4294376.103	9469	14-Nov-13	11142013-002.SSF	405040.547	25696
722338.738	4294377.075	8547	14-Nov-13	11142013-002.SSF	405041.666	25697
722337.998	4294377.972	8887	14-Nov-13	11142013-002.SSF	405042.5389	25698
722337.082	4294379.307	9121	14-Nov-13	11142013-002.SSF	405043.675	25699
722336.342	4294380.293	9450	14-Nov-13	11142013-002.SSF	405044.559	25700
722335.445	4294381.253	8992	14-Nov-13	11142013-002.SSF	405045.558	25701
722334.565	4294382.148	8068	14-Nov-13	11142013-002.SSF	405046.543	25702
722333.765	4294383.278	8647	14-Nov-13	11142013-002.SSF	405047.573	25703
722333.126	4294384.464	8221	14-Nov-13	11142013-002.SSF	405048.527	25704
722332.335	4294385.682	8745	14-Nov-13	11142013-002.SSF	405049.585	25705
722331.487	4294386.555	9146	14-Nov-13	11142013-002.SSF	405050.554	25706
722330.624	4294387.281	8586	14-Nov-13	11142013-002.SSF	405051.585	25707
722329.914	4294387.965	8656	14-Nov-13	11142013-002.SSF	405052.554	25708
722329.152	4294388.833	9184	14-Nov-13	11142013-002.SSF	405053.5909	25709
722328.252	4294389.769	9736	14-Nov-13	11142013-002.SSF	405054.576	25710
722327.266	4294390.609	9004	14-Nov-13	11142013-002.SSF	405055.502	25711
722326.344	4294391.383	9031	14-Nov-13	11142013-002.SSF	405056.422	25712
722325.464	4294392.466	8257	14-Nov-13	11142013-002.SSF	405057.5649	25713
722324.929	4294393.477	8904	14-Nov-13	11142013-002.SSF	405058.47	25714
722324.14	4294394.722	9096	14-Nov-13	11142013-002.SSF	405059.59	25715
722323.305	4294395.534	9444	14-Nov-13	11142013-002.SSF	405060.449	25716
722322.159	4294396.522	8781	14-Nov-13	11142013-002.SSF	405061.608	25717
722321.43	4294397.444	9695	14-Nov-13	11142013-002.SSF	405062.526	25718
722320.782	4294398.587	9713	14-Nov-13	11142013-002.SSF	405063.538	25719
722320.143	4294399.551	8998	14-Nov-13	11142013-002.SSF	405064.455	25720
722318.98	4294400.605	8789	14-Nov-13	11142013-002.SSF	405065.656	25721
722318.134	4294401.358	8977	14-Nov-13	11142013-002.SSF	405066.533	25722
722317.299	4294402.528	8394	14-Nov-13	11142013-002.SSF	405067.636	25723
722316.647	4294403.519	8638	14-Nov-13	11142013-002.SSF	405068.536	25724

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722315.618	4294404.486	8129	14-Nov-13	11142013-002.SSF	405069.629	25725
722314.678	4294405.225	9112	14-Nov-13	11142013-002.SSF	405070.548	25726
722313.85	4294406.311	8848	14-Nov-13	11142013-002.SSF	405071.6219	25727
722313.3	4294407.371	9652	14-Nov-13	11142013-002.SSF	405072.543	25728
722312.519	4294408.415	8923	14-Nov-13	11142013-002.SSF	405073.559	25729
722311.526	4294409.238	9040	14-Nov-13	11142013-002.SSF	405074.494	25730
722310.404	4294410.263	8650	14-Nov-13	11142013-002.SSF	405075.646	25731
722309.934	4294411.058	7982	14-Nov-13	11142013-002.SSF	405076.514	25732
722309.569	4294411.963	9255	14-Nov-13	11142013-002.SSF	405077.556	25733
722309.026	4294412.922	8673	14-Nov-13	11142013-002.SSF	405078.577	25734
722308.278	4294414.076	8378	14-Nov-13	11142013-002.SSF	405079.6281	25735
722307.647	4294415.046	8274	14-Nov-13	11142013-002.SSF	405080.507	25736
722306.857	4294416.059	8788	14-Nov-13	11142013-002.SSF	405081.533	25737
722305.908	4294417.015	8287	14-Nov-13	11142013-002.SSF	405082.562	25738
722304.725	4294417.963	8431	14-Nov-13	11142013-002.SSF	405083.61	25739
722303.637	4294418.746	7807	14-Nov-13	11142013-002.SSF	405084.541	25740
722302.587	4294419.686	8912	14-Nov-13	11142013-002.SSF	405085.573	25741
722301.726	4294420.748	8768	14-Nov-13	11142013-002.SSF	405086.525	25742
722300.788	4294422.011	8852	14-Nov-13	11142013-002.SSF	405087.558	25743
722299.892	4294423.087	9653	14-Nov-13	11142013-002.SSF	405088.498	25744
722298.763	4294424.237	8713	14-Nov-13	11142013-002.SSF	405089.535	25745
722297.624	4294425.284	7668	14-Nov-13	11142013-002.SSF	405090.469	25746
722296.5	4294426.38	8817	14-Nov-13	11142013-002.SSF	405091.504	25747
722295.627	4294427.495	10274	14-Nov-13	11142013-002.SSF	405092.52	25748
722294.77	4294428.718	9228	14-Nov-13	11142013-002.SSF	405093.53	25749
722293.899	4294429.856	9654	14-Nov-13	11142013-002.SSF	405094.504	25750
722292.888	4294430.9	8916	14-Nov-13	11142013-002.SSF	405095.494	25751
722291.874	4294431.853	8289	14-Nov-13	11142013-002.SSF	405096.431	25752
722290.886	4294433.088	9152	14-Nov-13	11142013-002.SSF	405097.536	25753
722290.228	4294434.205	7958	14-Nov-13	11142013-002.SSF	405098.4771	25754
722289.523	4294435.312	7659	14-Nov-13	11142013-002.SSF	405099.5389	25755
722288.617	4294436.275	8965	14-Nov-13	11142013-002.SSF	405100.548	25756
722287.54	4294437.336	8211	14-Nov-13	11142013-002.SSF	405101.585	25757
722286.674	4294438.405	9042	14-Nov-13	11142013-002.SSF	405102.547	25758
722285.855	4294439.603	8050	14-Nov-13	11142013-002.SSF	405103.597	25759
722285.171	4294440.56	8612	14-Nov-13	11142013-002.SSF	405104.465	25760
722284.136	4294441.739	9113	14-Nov-13	11142013-002.SSF	405105.579	25761
722283.219	4294442.649	8938	14-Nov-13	11142013-002.SSF	405106.459	25762
722282.12	4294443.923	8474	14-Nov-13	11142013-002.SSF	405107.6121	25763
722281.454	4294444.945	8028	14-Nov-13	11142013-002.SSF	405108.483	25764
722280.711	4294446.088	9597	14-Nov-13	11142013-002.SSF	405109.543	25765
722279.884	4294446.962	9029	14-Nov-13	11142013-002.SSF	405110.465	25766
722278.806	4294447.896	9847	14-Nov-13	11142013-002.SSF	405111.488	25767
722277.891	4294448.887	7831	14-Nov-13	11142013-002.SSF	405112.483	25768
722277.167	4294450.028	9367	14-Nov-13	11142013-002.SSF	405113.517	25769
722276.578	4294451.007	9212	14-Nov-13	11142013-002.SSF	405114.4449	25770
722275.615	4294452.076	8273	14-Nov-13	11142013-002.SSF	405115.5389	25771

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722274.595	4294452.995	8398	14-Nov-13	11142013-002.SSF	405116.4659	25772
722273.571	4294454.224	9689	14-Nov-13	11142013-002.SSF	405117.621	25773
722273.044	4294455.24	8182	14-Nov-13	11142013-002.SSF	405118.546	25774
722272.339	4294456.311	8105	14-Nov-13	11142013-002.SSF	405119.593	25775
722271.498	4294457.109	9466	14-Nov-13	11142013-002.SSF	405120.517	25776
722270.634	4294457.971	8786	14-Nov-13	11142013-002.SSF	405121.574	25777
722270.038	4294458.999	7176	14-Nov-13	11142013-002.SSF	405122.5551	25778
722269.308	4294460.237	7944	14-Nov-13	11142013-002.SSF	405123.642	25779
722268.484	4294461.129	7836	14-Nov-13	11142013-002.SSF	405124.501	25780
722267.344	4294462.138	8649	14-Nov-13	11142013-002.SSF	405125.541	25781
722266.449	4294463.161	9182	14-Nov-13	11142013-002.SSF	405126.51	25782
722265.736	4294464.401	8745	14-Nov-13	11142013-002.SSF	405127.579	25783
722265.147	4294465.371	7916	14-Nov-13	11142013-002.SSF	405128.519	25784
722264.21	4294466.33	9119	14-Nov-13	11142013-002.SSF	405129.573	25785
722263.307	4294467.148	9090	14-Nov-13	11142013-002.SSF	405130.457	25786
722262.418	4294468.326	8422	14-Nov-13	11142013-002.SSF	405131.556	25787
722261.802	4294469.423	8735	14-Nov-13	11142013-002.SSF	405132.502	25788
722260.98	4294470.488	9053	14-Nov-13	11142013-002.SSF	405133.533	25789
722260.173	4294471.253	8323	14-Nov-13	11142013-002.SSF	405134.422	25790
722259.336	4294472.244	7841	14-Nov-13	11142013-002.SSF	405135.566	25791
722258.822	4294473.193	8920	14-Nov-13	11142013-002.SSF	405136.493	25792
722258.164	4294474.194	8620	14-Nov-13	11142013-002.SSF	405137.493	25793
722257.333	4294475.01	10315	14-Nov-13	11142013-002.SSF	405138.434	25794
722256.259	4294475.987	9058	14-Nov-13	11142013-002.SSF	405139.571	25795
722255.5	4294476.951	9374	14-Nov-13	11142013-002.SSF	405140.5179	25796
722254.69	4294478.045	9123	14-Nov-13	11142013-002.SSF	405141.553	25797
722253.824	4294478.954	8880	14-Nov-13	11142013-002.SSF	405142.49	25798
722252.808	4294479.96	8190	14-Nov-13	11142013-002.SSF	405143.594	25799
722252.132	4294480.854	8167	14-Nov-13	11142013-002.SSF	405144.51	25800
722251.404	4294481.934	7622	14-Nov-13	11142013-002.SSF	405145.542	25801
722250.542	4294483	7875	14-Nov-13	11142013-002.SSF	405146.535	25802
722249.585	4294484.061	7668	14-Nov-13	11142013-002.SSF	405147.532	25803
722248.769	4294485.168	7227	14-Nov-13	11142013-002.SSF	405148.559	25804
722248.124	4294486.311	7897	14-Nov-13	11142013-002.SSF	405149.601	25805
722247.421	4294487.226	8304	14-Nov-13	11142013-002.SSF	405150.538	25806
722246.422	4294488.099	8796	14-Nov-13	11142013-002.SSF	405151.545	25807
722245.482	4294488.91	8769	14-Nov-13	11142013-002.SSF	405152.464	25808
722244.605	4294490.047	8492	14-Nov-13	11142013-002.SSF	405153.522	25809
722243.965	4294491.267	8573	14-Nov-13	11142013-002.SSF	405154.506	25810
722243.144	4294492.491	9043	14-Nov-13	11142013-002.SSF	405155.613	25811
722242.333	4294493.227	9371	14-Nov-13	11142013-002.SSF	405156.453	25812
722241.255	4294494.162	9902	14-Nov-13	11142013-002.SSF	405157.604	25813
722240.682	4294494.978	9705	14-Nov-13	11142013-002.SSF	405158.459	25814
722239.978	4294496.139	8726	14-Nov-13	11142013-002.SSF	405159.61	25815
722239.315	4294496.916	8361	14-Nov-13	11142013-002.SSF	405160.4561	25816
722238.379	4294497.9	9140	14-Nov-13	11142013-002.SSF	405161.5439	25817
722237.633	4294498.976	8345	14-Nov-13	11142013-002.SSF	405162.542	25818

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722236.96	4294500.209	8146	14-Nov-13	11142013-002.SSF	405163.588	25819
722236.187	4294501.248	8786	14-Nov-13	11142013-002.SSF	405164.5229	25820
722235.094	4294502.308	8376	14-Nov-13	11142013-002.SSF	405165.5699	25821
722234.24	4294503.204	7674	14-Nov-13	11142013-002.SSF	405166.507	25822
722233.476	4294504.365	8698	14-Nov-13	11142013-002.SSF	405167.5699	25823
722232.795	4294505.491	7484	14-Nov-13	11142013-002.SSF	405168.517	25824
722231.944	4294506.591	8411	14-Nov-13	11142013-002.SSF	405169.521	25825
722231.037	4294507.507	8882	14-Nov-13	11142013-002.SSF	405170.472	25826
722230.207	4294508.543	8190	14-Nov-13	11142013-002.SSF	405171.557	25827
722229.8	4294509.586	7897	14-Nov-13	11142013-002.SSF	405172.4871	25828
722229.749	4294510.927	8544	14-Nov-13	11142013-002.SSF	405173.578	25829
722230.259	4294511.87	8616	14-Nov-13	11142013-002.SSF	405174.516	25830
722231.181	4294512.221	8904	14-Nov-13	11142013-002.SSF	405175.5439	25831
722231.973	4294511.793	9306	14-Nov-13	11142013-002.SSF	405176.479	25832
722232.893	4294510.877	8836	14-Nov-13	11142013-002.SSF	405177.536	25833
722233.898	4294510.026	7429	14-Nov-13	11142013-002.SSF	405178.4659	25834
722235.133	4294508.922	7287	14-Nov-13	11142013-002.SSF	405179.634	25835
722235.797	4294508.089	8002	14-Nov-13	11142013-002.SSF	405180.449	25836
722236.506	4294506.968	8630	14-Nov-13	11142013-002.SSF	405181.536	25837
722237.115	4294506.083	8967	14-Nov-13	11142013-002.SSF	405182.453	25838
722238.126	4294505.097	8902	14-Nov-13	11142013-002.SSF	405183.5389	25839
722239.135	4294504.34	9065	14-Nov-13	11142013-002.SSF	405184.449	25840
722240.119	4294503.366	9046	14-Nov-13	11142013-002.SSF	405185.53	25841
722240.808	4294502.207	8591	14-Nov-13	11142013-002.SSF	405186.538	25842
722241.588	4294501.029	9018	14-Nov-13	11142013-002.SSF	405187.566	25843
722242.455	4294500.214	8254	14-Nov-13	11142013-002.SSF	405188.485	25844
722243.384	4294499.416	8183	14-Nov-13	11142013-002.SSF	405189.501	25845
722244.058	4294498.528	8976	14-Nov-13	11142013-002.SSF	405190.4351	25846
722244.828	4294497.416	8754	14-Nov-13	11142013-002.SSF	405191.5291	25847
722245.672	4294496.633	8758	14-Nov-13	11142013-002.SSF	405192.436	25848
722246.753	4294495.711	8609	14-Nov-13	11142013-002.SSF	405193.556	25849
722247.479	4294494.764	9232	14-Nov-13	11142013-002.SSF	405194.473	25850
722248.291	4294493.452	8398	14-Nov-13	11142013-002.SSF	405195.552	25851
722249.148	4294492.409	8519	14-Nov-13	11142013-002.SSF	405196.485	25852
722250.221	4294491.373	8370	14-Nov-13	11142013-002.SSF	405197.576	25853
722250.948	4294490.539	8182	14-Nov-13	11142013-002.SSF	405198.4449	25854
722251.751	4294489.385	8825	14-Nov-13	11142013-002.SSF	405199.537	25855
722252.364	4294488.446	8836	14-Nov-13	11142013-002.SSF	405200.4351	25856
722253.248	4294487.426	9139	14-Nov-13	11142013-002.SSF	405201.533	25857
722254.113	4294486.582	8674	14-Nov-13	11142013-002.SSF	405202.467	25858
722255.028	4294485.429	7808	14-Nov-13	11142013-002.SSF	405203.5699	25859
722255.776	4294484.372	8012	14-Nov-13	11142013-002.SSF	405204.495	25860
722256.89	4294483.17	9983	14-Nov-13	11142013-002.SSF	405205.558	25861
722257.891	4294482.246	9095	14-Nov-13	11142013-002.SSF	405206.464	25862
722258.769	4294481.221	9054	14-Nov-13	11142013-002.SSF	405207.563	25863
722259.359	4294480.208	8953	14-Nov-13	11142013-002.SSF	405208.516	25864
722260.094	4294479.074	8358	14-Nov-13	11142013-002.SSF	405209.5229	25865

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722260.994	4294478.116	8329	14-Nov-13	11142013-002.SSF	405210.431	25866
722262.219	4294476.962	8382	14-Nov-13	11142013-002.SSF	405211.531	25867
722263.147	4294475.892	9415	14-Nov-13	11142013-002.SSF	405212.455	25868
722264.061	4294474.558	8264	14-Nov-13	11142013-002.SSF	405213.553	25869
722264.798	4294473.56	7706	14-Nov-13	11142013-002.SSF	405214.52	25870
722265.677	4294472.659	8106	14-Nov-13	11142013-002.SSF	405215.5811	25871
722266.305	4294471.871	7936	14-Nov-13	11142013-002.SSF	405216.528	25872
722266.833	4294471.003	9304	14-Nov-13	11142013-002.SSF	405217.573	25873
722267.503	4294470.263	9106	14-Nov-13	11142013-002.SSF	405218.512	25874
722268.43	4294469.338	9146	14-Nov-13	11142013-002.SSF	405219.587	25875
722269.051	4294468.503	8766	14-Nov-13	11142013-002.SSF	405220.377	25876
722269.8	4294467.155	8641	14-Nov-13	11142013-002.SSF	405221.505	25877
722270.485	4294466.129	9570	14-Nov-13	11142013-002.SSF	405222.431	25878
722271.508	4294465.178	9802	14-Nov-13	11142013-002.SSF	405223.446	25879
722272.5	4294464.274	8330	14-Nov-13	11142013-002.SSF	405224.448	25880
722273.334	4294463.146	9612	14-Nov-13	11142013-002.SSF	405225.501	25881
722274.082	4294461.997	8703	14-Nov-13	11142013-002.SSF	405226.469	25882
722275.006	4294460.896	9435	14-Nov-13	11142013-002.SSF	405227.475	25883
722276.081	4294459.937	9258	14-Nov-13	11142013-002.SSF	405228.479	25884
722277.041	4294459.037	9094	14-Nov-13	11142013-002.SSF	405229.469	25885
722277.844	4294457.967	9863	14-Nov-13	11142013-002.SSF	405230.493	25886
722278.565	4294456.719	8646	14-Nov-13	11142013-002.SSF	405231.542	25887
722279.394	4294455.664	10291	14-Nov-13	11142013-002.SSF	405232.5439	25888
722280.404	4294454.811	9322	14-Nov-13	11142013-002.SSF	405233.549	25889
722281.204	4294454.066	8870	14-Nov-13	11142013-002.SSF	405234.47	25890
722281.839	4294453.263	8367	14-Nov-13	11142013-002.SSF	405235.467	25891
722282.49	4294452.519	9322	14-Nov-13	11142013-002.SSF	405236.424	25892
722283.546	4294451.586	8750	14-Nov-13	11142013-002.SSF	405237.572	25893
722284.291	4294450.785	8727	14-Nov-13	11142013-002.SSF	405238.455	25894
722285.002	4294449.723	9202	14-Nov-13	11142013-002.SSF	405239.569	25895
722285.655	4294448.95	8660	14-Nov-13	11142013-002.SSF	405240.451	25896
722286.69	4294448.066	8525	14-Nov-13	11142013-002.SSF	405241.545	25897
722287.477	4294447.193	8281	14-Nov-13	11142013-002.SSF	405242.468	25898
722288.198	4294445.854	8520	14-Nov-13	11142013-002.SSF	405243.5959	25899
722288.748	4294444.835	9300	14-Nov-13	11142013-002.SSF	405244.458	25900
722289.598	4294443.859	8805	14-Nov-13	11142013-002.SSF	405245.484	25901
722290.464	4294443.07	9161	14-Nov-13	11142013-002.SSF	405246.423	25902
722291.273	4294442.044	8290	14-Nov-13	11142013-002.SSF	405247.472	25903
722291.908	4294441.043	8312	14-Nov-13	11142013-002.SSF	405248.428	25904
722292.735	4294440.07	8798	14-Nov-13	11142013-002.SSF	405249.509	25905
722293.555	4294439.288	9579	14-Nov-13	11142013-002.SSF	405250.444	25906
722294.338	4294438.269	10075	14-Nov-13	11142013-002.SSF	405251.481	25907
722294.968	4294437.316	8758	14-Nov-13	11142013-002.SSF	405252.39	25908
722295.994	4294436.194	8849	14-Nov-13	11142013-002.SSF	405253.531	25909
722296.855	4294435.35	9412	14-Nov-13	11142013-002.SSF	405254.4611	25910
722297.6	4294434.289	9373	14-Nov-13	11142013-002.SSF	405255.5389	25911
722298.167	4294433.311	8553	14-Nov-13	11142013-002.SSF	405256.448	25912

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722299.012	4294432.286	8618	14-Nov-13	11142013-002.SSF	405257.524	25913
722299.881	4294431.505	9054	14-Nov-13	11142013-002.SSF	405258.4561	25914
722300.758	4294430.453	9763	14-Nov-13	11142013-002.SSF	405259.515	25915
722301.359	4294429.391	8261	14-Nov-13	11142013-002.SSF	405260.438	25916
722302.052	4294428.214	8725	14-Nov-13	11142013-002.SSF	405261.551	25917
722302.787	4294427.425	9441	14-Nov-13	11142013-002.SSF	405262.463	25918
722303.733	4294426.527	9320	14-Nov-13	11142013-002.SSF	405263.5229	25919
722304.576	4294425.494	8660	14-Nov-13	11142013-002.SSF	405264.525	25920
722305.374	4294424.362	8165	14-Nov-13	11142013-002.SSF	405265.532	25921
722306.213	4294423.416	8731	14-Nov-13	11142013-002.SSF	405266.473	25922
722307.254	4294422.493	9232	14-Nov-13	11142013-002.SSF	405267.516	25923
722308.063	4294421.568	8158	14-Nov-13	11142013-002.SSF	405268.459	25924
722308.849	4294420.275	8129	14-Nov-13	11142013-002.SSF	405269.554	25925
722309.454	4294419.373	8632	14-Nov-13	11142013-002.SSF	405270.342	25926
722310.539	4294418.349	9238	14-Nov-13	11142013-002.SSF	405271.454	25927
722311.585	4294417.496	10079	14-Nov-13	11142013-002.SSF	405272.433	25928
722312.52	4294416.397	9330	14-Nov-13	11142013-002.SSF	405273.452	25929
722313.238	4294415.289	8602	14-Nov-13	11142013-002.SSF	405274.36	25930
722314.106	4294414.046	8960	14-Nov-13	11142013-002.SSF	405275.458	25931
722314.989	4294413.109	8960	14-Nov-13	11142013-002.SSF	405276.417	25932
722315.818	4294412.124	10370	14-Nov-13	11142013-002.SSF	405277.463	25933
722316.32	4294411.096	9012	14-Nov-13	11142013-002.SSF	405278.418	25934
722316.888	4294409.999	8823	14-Nov-13	11142013-002.SSF	405279.438	25935
722317.759	4294409.092	8265	14-Nov-13	11142013-002.SSF	405280.4399	25936
722318.825	4294408.148	8876	14-Nov-13	11142013-002.SSF	405281.567	25937
722319.6	4294407.25	8639	14-Nov-13	11142013-002.SSF	405282.48	25938
722320.497	4294405.988	10440	14-Nov-13	11142013-002.SSF	405283.6	25939
722321.251	4294405.055	9630	14-Nov-13	11142013-002.SSF	405284.517	25940
722322.153	4294404.214	9037	14-Nov-13	11142013-002.SSF	405285.535	25941
722322.916	4294403.458	8589	14-Nov-13	11142013-002.SSF	405286.465	25942
722323.772	4294402.363	7907	14-Nov-13	11142013-002.SSF	405287.568	25943
722324.61	4294401.359	8486	14-Nov-13	11142013-002.SSF	405288.525	25944
722325.624	4294400.419	8631	14-Nov-13	11142013-002.SSF	405289.577	25945
722326.354	4294399.721	8608	14-Nov-13	11142013-002.SSF	405290.4189	25946
722327.137	4294398.733	8452	14-Nov-13	11142013-002.SSF	405291.455	25947
722327.863	4294397.739	8593	14-Nov-13	11142013-002.SSF	405292.38	25948
722328.818	4294396.653	9318	14-Nov-13	11142013-002.SSF	405293.488	25949
722329.59	4294395.835	8749	14-Nov-13	11142013-002.SSF	405294.415	25950
722330.274	4294394.859	9627	14-Nov-13	11142013-002.SSF	405295.45	25951
722330.888	4294393.904	8077	14-Nov-13	11142013-002.SSF	405296.407	25952
722331.648	4294392.947	7659	14-Nov-13	11142013-002.SSF	405297.443	25953
722332.38	4294392.197	8634	14-Nov-13	11142013-002.SSF	405298.384	25954
722333.187	4294391.164	8788	14-Nov-13	11142013-002.SSF	405299.496	25955
722333.774	4294390.203	10957	14-Nov-13	11142013-002.SSF	405300.353	25956
722334.65	4294388.949	9279	14-Nov-13	11142013-002.SSF	405301.516	25957
722335.484	4294388.159	8229	14-Nov-13	11142013-002.SSF	405302.448	25958
722336.315	4294387.406	8747	14-Nov-13	11142013-002.SSF	405303.446	25959

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722337.83	4294385.297	7746	14-Nov-13	11142013-002.SSF	405305.509	25961
722338.55	4294384.427	9286	14-Nov-13	11142013-002.SSF	405306.434	25962
722339.467	4294383.535	9821	14-Nov-13	11142013-002.SSF	405307.458	25963
722340.317	4294382.574	8305	14-Nov-13	11142013-002.SSF	405308.411	25964
722341.247	4294381.306	8166	14-Nov-13	11142013-002.SSF	405309.532	25965
722341.963	4294380.43	8731	14-Nov-13	11142013-002.SSF	405310.448	25966
722342.842	4294379.689	9022	14-Nov-13	11142013-002.SSF	405311.5081	25967
722343.603	4294378.962	8585	14-Nov-13	11142013-002.SSF	405312.4449	25968
722344.399	4294377.774	8836	14-Nov-13	11142013-002.SSF	405313.517	25969
722345.135	4294376.749	7999	14-Nov-13	11142013-002.SSF	405314.45	25970
722346.103	4294375.905	8839	14-Nov-13	11142013-002.SSF	405315.547	25971
722346.851	4294375.252	9080	14-Nov-13	11142013-002.SSF	405316.4561	25972
722347.577	4294374.243	9170	14-Nov-13	11142013-002.SSF	405317.4771	25973
722348.252	4294373.187	10092	14-Nov-13	11142013-002.SSF	405318.411	25974
722349.258	4294372.095	8613	14-Nov-13	11142013-002.SSF	405319.533	25975
722350.204	4294371.264	8363	14-Nov-13	11142013-002.SSF	405320.443	25976
722351.161	4294370.19	8690	14-Nov-13	11142013-002.SSF	405321.463	25977
722351.951	4294369.074	7962	14-Nov-13	11142013-002.SSF	405322.4771	25978
722352.752	4294368.083	8800	14-Nov-13	11142013-002.SSF	405323.536	25979
722353.49	4294367.265	9790	14-Nov-13	11142013-002.SSF	405324.4659	25980
722354.287	4294366.231	8957	14-Nov-13	11142013-002.SSF	405325.45	25981
722354.994	4294365.169	8359	14-Nov-13	11142013-002.SSF	405326.3409	25982
722355.852	4294364.02	8239	14-Nov-13	11142013-002.SSF	405327.439	25983
722356.603	4294363.234	7610	14-Nov-13	11142013-002.SSF	405328.34	25984
722357.392	4294362.217	8742	14-Nov-13	11142013-002.SSF	405329.405	25985
722358.168	4294361.238	7435	14-Nov-13	11142013-002.SSF	405330.427	25986
722358.639	4294360.727	8909	14-Nov-13	11142013-002.SSF	405330.9919	25987
722359.686	4294359.957	8047	14-Nov-13	11142013-002.SSF	405331.959	25988
722360.696	4294359.061	8641	14-Nov-13	11142013-002.SSF	405333.033	25989
722361.164	4294358.206	8310	14-Nov-13	11142013-002.SSF	405333.965	25990
722361.997	4294356.834	9037	14-Nov-13	11142013-002.SSF	405335.413	25991
722362.748	4294355.949	8919	14-Nov-13	11142013-002.SSF	405336.3781	25992
722363.653	4294355.066	8680	14-Nov-13	11142013-002.SSF	405337.476	25993
722364.145	4294354.457	7900	14-Nov-13	11142013-002.SSF	405338.335	25994
722364.641	4294353.729	8575	14-Nov-13	11142013-002.SSF	405339.421	25995
722365.336	4294353.018	8113	14-Nov-13	11142013-002.SSF	405340.403	25996
722366.107	4294352.201	8268	14-Nov-13	11142013-002.SSF	405341.396	25997
722366.743	4294351.365	9417	14-Nov-13	11142013-002.SSF	405342.324	25998
722367.612	4294350.298	9044	14-Nov-13	11142013-002.SSF	405343.465	25999
722368.305	4294349.423	9262	14-Nov-13	11142013-002.SSF	405344.413	26000
722368.858	4294348.403	8297	14-Nov-13	11142013-002.SSF	405345.446	26001
722369.387	4294347.539	8194	14-Nov-13	11142013-002.SSF	405346.405	26002
722370.22	4294346.798	8048	14-Nov-13	11142013-002.SSF	405347.4399	26003
722370.994	4294346.195	8552	14-Nov-13	11142013-002.SSF	405348.448	26004
722371.315	4294345.633	8558	14-Nov-13	11142013-002.SSF	405349.462	26005
722371.516	4294345.002	9189	14-Nov-13	11142013-002.SSF	405350.431	26006

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722373.085	4294343.552	8216	14-Nov-13	11142013-002.SSF	405352.458	26008
722374.12	4294342.954	8954	14-Nov-13	11142013-002.SSF	405353.4969	26009
722374.97	4294342.206	9258	14-Nov-13	11142013-002.SSF	405354.429	26010
722375.932	4294340.867	9454	14-Nov-13	11142013-002.SSF	405355.557	26011
722376.532	4294339.81	9143	14-Nov-13	11142013-002.SSF	405356.376	26012
722377.341	4294338.589	8286	14-Nov-13	11142013-002.SSF	405357.507	26013
722378.016	4294337.859	8161	14-Nov-13	11142013-002.SSF	405358.392	26014
722378.499	4294337.253	7740	14-Nov-13	11142013-002.SSF	405359.4709	26015
722378.507	4294337.08	9075	14-Nov-13	11142013-002.SSF	405360.415	26016
722117.245	4294369.378	7552	14-Nov-13	11142013-003.SSF	405970.218	26017
722117.251	4294369.385	7438	14-Nov-13	11142013-003.SSF	405971.246	26018
722117.272	4294369.406	7349	14-Nov-13	11142013-003.SSF	405972.083	26019
722117.289	4294369.406	7927	14-Nov-13	11142013-003.SSF	405973.135	26020
722117.296	4294369.436	7861	14-Nov-13	11142013-003.SSF	405974.172	26021
722117.298	4294369.435	7515	14-Nov-13	11142013-003.SSF	405975.275	26022
722117.308	4294369.432	7398	14-Nov-13	11142013-003.SSF	405976.176	26023
722117.334	4294369.433	8149	14-Nov-13	11142013-003.SSF	405977.359	26024
722117.352	4294369.444	8097	14-Nov-13	11142013-003.SSF	405978.28	26025
722117.395	4294369.451	7454	14-Nov-13	11142013-003.SSF	405979.329	26026
722117.435	4294369.443	8223	14-Nov-13	11142013-003.SSF	405980.274	26027
722117.485	4294369.427	6825	14-Nov-13	11142013-003.SSF	405981.284	26028
722117.609	4294369.45	8606	14-Nov-13	11142013-003.SSF	405982.296	26029
722117.703	4294369.55	7971	14-Nov-13	11142013-003.SSF	405983.36	26030
722117.7	4294369.624	7123	14-Nov-13	11142013-003.SSF	405984.294	26031
722117.654	4294369.688	7900	14-Nov-13	11142013-003.SSF	405985.317	26032
722117.642	4294369.747	7495	14-Nov-13	11142013-003.SSF	405986.198	26033
722117.753	4294369.705	8263	14-Nov-13	11142013-003.SSF	405987.357	26034
722117.863	4294369.594	8456	14-Nov-13	11142013-003.SSF	405988.188	26035
722118.07	4294369.583	8144	14-Nov-13	11142013-003.SSF	405989.267	26036
722118.255	4294369.696	7676	14-Nov-13	11142013-003.SSF	405990.214	26037
722118.329	4294369.958	7289	14-Nov-13	11142013-003.SSF	405991.223	26038
722118.241	4294370.311	6262	14-Nov-13	11142013-003.SSF	405992.229	26039
722118.158	4294370.339	7775	14-Nov-13	11142013-003.SSF	405993.256	26040
722118.05	4294370.151	7643	14-Nov-13	11142013-003.SSF	405994.222	26041
722118.226	4294370.099	7101	14-Nov-13	11142013-003.SSF	405995.302	26042
722118.606	4294370.008	7025	14-Nov-13	11142013-003.SSF	405996.315	26043
722118.878	4294370.033	7906	14-Nov-13	11142013-003.SSF	405997.349	26044
722119.078	4294370.173	7256	14-Nov-13	11142013-003.SSF	405998.306	26045
722119.157	4294370.445	6224	14-Nov-13	11142013-003.SSF	405999.335	26046
722119.07	4294370.718	6086	14-Nov-13	11142013-003.SSF	406000.276	26047
722118.876	4294370.834	5507	14-Nov-13	11142013-003.SSF	406001.309	26048
722118.624	4294370.871	5962	14-Nov-13	11142013-003.SSF	406002.265	26049
722118.308	4294370.554	6796	14-Nov-13	11142013-003.SSF	406003.288	26050
722117.894	4294370.038	7219	14-Nov-13	11142013-003.SSF	406004.317	26051
722117.859	4294369.531	7714	14-Nov-13	11142013-003.SSF	406005.255	26052
722118.044	4294368.903	7028	14-Nov-13	11142013-003.SSF	406006.25	26053

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722118.924	4294368.772	6649	14-Nov-13	11142013-003.SSF	406008.188	26055
722119.358	4294368.899	6153	14-Nov-13	11142013-003.SSF	406009.262	26056
722119.656	4294369.144	7358	14-Nov-13	11142013-003.SSF	406010.31	26057
722119.757	4294369.391	7029	14-Nov-13	11142013-003.SSF	406011.219	26058
722119.636	4294369.841	6227	14-Nov-13	11142013-003.SSF	406012.231	26059
722119.498	4294370.331	6085	14-Nov-13	11142013-003.SSF	406013.247	26060
722119.048	4294370.502	6226	14-Nov-13	11142013-003.SSF	406014.318	26061
722118.418	4294370.499	6896	14-Nov-13	11142013-003.SSF	406015.286	26062
722117.804	4294370.143	7484	14-Nov-13	11142013-003.SSF	406016.318	26063
722117.335	4294369.799	7121	14-Nov-13	11142013-003.SSF	406017.279	26064
722117.304	4294369.485	6640	14-Nov-13	11142013-003.SSF	406018.33	26065
722117.374	4294369.066	6090	14-Nov-13	11142013-003.SSF	406019.346	26066
722117.591	4294368.813	6412	14-Nov-13	11142013-003.SSF	406020.188	26067
722117.972	4294368.446	5563	14-Nov-13	11142013-003.SSF	406021.346	26068
722118.251	4294368.381	5679	14-Nov-13	11142013-003.SSF	406022.275	26069
722118.613	4294368.362	5489	14-Nov-13	11142013-003.SSF	406023.28	26070
722118.961	4294368.477	6108	14-Nov-13	11142013-003.SSF	406024.255	26071
722119.484	4294368.722	6387	14-Nov-13	11142013-003.SSF	406025.413	26072
722119.772	4294368.975	6186	14-Nov-13	11142013-003.SSF	406026.186	26073
722120.047	4294369.291	7246	14-Nov-13	11142013-003.SSF	406027.182	26074
722120.208	4294369.621	8141	14-Nov-13	11142013-003.SSF	406028.229	26075
722120.414	4294370.111	8005	14-Nov-13	11142013-003.SSF	406029.301	26076
722120.3	4294370.597	7191	14-Nov-13	11142013-003.SSF	406030.268	26077
722119.937	4294371.092	5397	14-Nov-13	11142013-003.SSF	406031.296	26078
722119.648	4294371.264	5728	14-Nov-13	11142013-003.SSF	406032.264	26079
722119.544	4294371.49	5616	14-Nov-13	11142013-003.SSF	406033.252	26080
722119.588	4294371.863	5739	14-Nov-13	11142013-003.SSF	406034.176	26081
722119.269	4294372.175	7282	14-Nov-13	11142013-003.SSF	406035.304	26082
722118.865	4294372.347	7910	14-Nov-13	11142013-003.SSF	406036.268	26083
722118.452	4294372.324	7887	14-Nov-13	11142013-003.SSF	406037.253	26084
722118.018	4294372.166	7552	14-Nov-13	11142013-003.SSF	406038.211	26085
722117.581	4294371.752	6088	14-Nov-13	11142013-003.SSF	406039.351	26086
722117.26	4294371.37	6262	14-Nov-13	11142013-003.SSF	406040.153	26087
722116.767	4294370.753	5858	14-Nov-13	11142013-003.SSF	406041.4	26088
722116.436	4294370.245	5755	14-Nov-13	11142013-003.SSF	406042.206	26089
722116.416	4294369.66	5727	14-Nov-13	11142013-003.SSF	406043.18	26090
722116.812	4294369.203	5929	14-Nov-13	11142013-003.SSF	406044.155	26091
722117.253	4294368.796	5562	14-Nov-13	11142013-003.SSF	406045.34	26092
722117.84	4294368.77	5461	14-Nov-13	11142013-003.SSF	406046.296	26093
722118.591	4294368.837	5802	14-Nov-13	11142013-003.SSF	406047.341	26094
722119.138	4294369.12	5656	14-Nov-13	11142013-003.SSF	406048.235	26095
722119.895	4294369.48	6009	14-Nov-13	11142013-003.SSF	406049.321	26096
722120.478	4294369.847	6903	14-Nov-13	11142013-003.SSF	406050.148	26097
722121.047	4294370.388	7073	14-Nov-13	11142013-003.SSF	406051.287	26098
722121.277	4294370.859	9268	14-Nov-13	11142013-003.SSF	406052.24	26099
722121.479	4294371.564	9277	14-Nov-13	11142013-003.SSF	406053.319	26100

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722121.53	4294372.126	7179	14-Nov-13	11142013-003.SSF	406054.256	26101
722121.405	4294372.732	6714	14-Nov-13	11142013-003.SSF	406055.287	26102
722121.254	4294373.092	6508	14-Nov-13	11142013-003.SSF	406056.23	26103
722121.228	4294373.307	6697	14-Nov-13	11142013-003.SSF	406057.324	26104
722121.034	4294373.307	7014	14-Nov-13	11142013-003.SSF	406058.236	26105
722120.714	4294373.235	7153	14-Nov-13	11142013-003.SSF	406059.175	26106
722120.748	4294373.46	7578	14-Nov-13	11142013-003.SSF	406060.172	26107
722120.83	4294373.632	8164	14-Nov-13	11142013-003.SSF	406061.268	26108
722120.465	4294373.587	8731	14-Nov-13	11142013-003.SSF	406062.141	26109
722119.57	4294373.891	7162	14-Nov-13	11142013-003.SSF	406063.245	26110
722118.762	4294374.049	8840	14-Nov-13	11142013-003.SSF	406064.23	26111
722118.123	4294374.275	9410	14-Nov-13	11142013-003.SSF	406065.338	26112
722117.549	4294374.269	8892	14-Nov-13	11142013-003.SSF	406066.272	26113
722116.874	4294374.26	8073	14-Nov-13	11142013-003.SSF	406067.29	26114
722116.378	4294374.187	7268	14-Nov-13	11142013-003.SSF	406068.265	26115
722115.962	4294373.892	7367	14-Nov-13	11142013-003.SSF	406069.358	26116
722115.66	4294373.434	7601	14-Nov-13	11142013-003.SSF	406070.243	26117
722115.162	4294372.754	6940	14-Nov-13	11142013-003.SSF	406071.353	26118
722114.741	4294372.137	6505	14-Nov-13	11142013-003.SSF	406072.236	26119
722114.249	4294371.321	6204	14-Nov-13	11142013-003.SSF	406073.35	26120
722114.114	4294370.627	6351	14-Nov-13	11142013-003.SSF	406074.245	26121
722114.152	4294369.828	6191	14-Nov-13	11142013-003.SSF	406075.316	26122
722114.286	4294369.332	5795	14-Nov-13	11142013-003.SSF	406076.236	26123
722114.827	4294368.851	5623	14-Nov-13	11142013-003.SSF	406077.303	26124
722115.413	4294368.426	5548	14-Nov-13	11142013-003.SSF	406078.187	26125
722116.387	4294368.171	5768	14-Nov-13	11142013-003.SSF	406079.279	26126
722117.4	4294367.859	5712	14-Nov-13	11142013-003.SSF	406080.246	26127
722118.405	4294367.676	5860	14-Nov-13	11142013-003.SSF	406081.205	26128
722119.205	4294367.232	5824	14-Nov-13	11142013-003.SSF	406082.249	26129
722119.582	4294366.942	6096	14-Nov-13	11142013-003.SSF	406083.213	26130
722119.823	4294366.971	6414	14-Nov-13	11142013-003.SSF	406084.271	26131
722119.98	4294367.129	7093	14-Nov-13	11142013-003.SSF	406085.242	26132
722120.119	4294367.509	8133	14-Nov-13	11142013-003.SSF	406086.172	26133
722120.526	4294367.756	7703	14-Nov-13	11142013-003.SSF	406087.254	26134
722120.95	4294367.919	9245	14-Nov-13	11142013-003.SSF	406088.151	26135
722121.424	4294368.178	9181	14-Nov-13	11142013-003.SSF	406089.156	26136
722121.619	4294368.645	9855	14-Nov-13	11142013-003.SSF	406090.207	26137
722121.814	4294369.063	8133	14-Nov-13	11142013-003.SSF	406091.298	26138
722122.023	4294369.337	8753	14-Nov-13	11142013-003.SSF	406092.296	26139
722121.824	4294369.583	8788	14-Nov-13	11142013-003.SSF	406093.274	26140
722121.774	4294369.866	8167	14-Nov-13	11142013-003.SSF	406094.3	26141
722121.873	4294370.071	8431	14-Nov-13	11142013-003.SSF	406095.267	26142
722121.918	4294370.557	7837	14-Nov-13	11142013-003.SSF	406096.208	26143
722121.893	4294371.032	7719	14-Nov-13	11142013-003.SSF	406097.195	26144
722122.023	4294371.361	8200	14-Nov-13	11142013-003.SSF	406098.198	26145
722122.423	4294371.674	8680	14-Nov-13	11142013-003.SSF	406099.276	26146
722122.589	4294371.8	8440	14-Nov-13	11142013-003.SSF	406100.238	26147

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722122.589	4294371.82	8650	14-Nov-13	11142013-003.SSF	406101.31	26148
722122.616	4294371.695	8552	14-Nov-13	11142013-003.SSF	406102.177	26149
722122.502	4294371.175	9488	14-Nov-13	11142013-003.SSF	406103.343	26150
722122.211	4294370.697	9542	14-Nov-13	11142013-003.SSF	406104.209	26151
722121.79	4294370.687	7215	14-Nov-13	11142013-003.SSF	406105.301	26152
722121.595	4294370.858	7593	14-Nov-13	11142013-003.SSF	406106.273	26153
722121.381	4294370.767	8708	14-Nov-13	11142013-003.SSF	406107.341	26154
722121.033	4294370.694	8477	14-Nov-13	11142013-003.SSF	406108.239	26155
722120.573	4294370.573	8389	14-Nov-13	11142013-003.SSF	406109.291	26156
722120.236	4294370.492	8007	14-Nov-13	11142013-003.SSF	406110.202	26157
722119.836	4294370.151	9112	14-Nov-13	11142013-003.SSF	406111.199	26158
722119.496	4294369.875	8758	14-Nov-13	11142013-003.SSF	406112.155	26159
722119.117	4294369.627	7499	14-Nov-13	11142013-003.SSF	406113.223	26160
722118.979	4294369.561	7275	14-Nov-13	11142013-003.SSF	406114.204	26161
722119.063	4294369.49	7578	14-Nov-13	11142013-003.SSF	406115.222	26162
722119.15	4294369.371	7144	14-Nov-13	11142013-003.SSF	406116.241	26163
722119.115	4294369.438	7696	14-Nov-13	11142013-003.SSF	406117.246	26164
722119.096	4294369.525	7324	14-Nov-13	11142013-003.SSF	406118.208	26165
722119.102	4294369.6	7201	14-Nov-13	11142013-003.SSF	406119.287	26166
722119.098	4294369.643	7440	14-Nov-13	11142013-003.SSF	406120.197	26167
722119.098	4294369.688	7110	14-Nov-13	11142013-003.SSF	406121.298	26168
722119.103	4294369.733	6637	14-Nov-13	11142013-003.SSF	406122.219	26169
722119.099	4294369.784	6309	14-Nov-13	11142013-003.SSF	406123.294	26170
722119.09	4294369.824	7097	14-Nov-13	11142013-003.SSF	406124.321	26171
722119.099	4294369.877	6994	14-Nov-13	11142013-003.SSF	406125.644	26172
722119.099	4294369.877	6458	14-Nov-13	11142013-003.SSF	406125.645	26173
722119.108	4294369.911	6804	14-Nov-13	11142013-003.SSF	406126.665	26174
722119.109	4294369.935	7281	14-Nov-13	11142013-003.SSF	406127.563	26175
722119.105	4294369.962	7820	14-Nov-13	11142013-003.SSF	406128.619	26176
722119.11	4294370.019	7715	14-Nov-13	11142013-003.SSF	406130.24	26177
722119.115	4294370.07	6188	14-Nov-13	11142013-003.SSF	406131.241	26178
722119.125	4294370.067	7187	14-Nov-13	11142013-003.SSF	406132.135	26179
722119.163	4294370.034	7796	14-Nov-13	11142013-003.SSF	406133.236	26180
722119.183	4294370.035	6719	14-Nov-13	11142013-003.SSF	406134.227	26181
722119.165	4294370.036	6870	14-Nov-13	11142013-003.SSF	406135.219	26182
722119.143	4294370.043	6967	14-Nov-13	11142013-003.SSF	406136.208	26183
722119.138	4294370.058	7291	14-Nov-13	11142013-003.SSF	406137.207	26184
722119.136	4294370.072	8212	14-Nov-13	11142013-003.SSF	406138.244	26185
722119.137	4294370.084	7663	14-Nov-13	11142013-003.SSF	406139.234	26186
722119.137	4294370.09	7646	14-Nov-13	11142013-003.SSF	406140.237	26187
722119.142	4294370.095	7491	14-Nov-13	11142013-003.SSF	406141.292	26188
722119.155	4294370.091	7002	14-Nov-13	11142013-003.SSF	406142.187	26189
722119.165	4294370.09	7840	14-Nov-13	11142013-003.SSF	406143.307	26190
722261.399	4294426.58	4082	14-Nov-13	11142013-004.SSF	414811	26191
722261.399	4294426.58	4591	14-Nov-13	11142013-004.SSF	414812	26192
722261.399	4294426.58	4547	14-Nov-13	11142013-004.SSF	414813	26193
722261.399	4294426.58	4155	14-Nov-13	11142013-004.SSF	414814	26194

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722261.399	4294426.58	4467	14-Nov-13	11142013-004.SSF	414815	26195
722261.399	4294426.58	4762	14-Nov-13	11142013-004.SSF	414816	26196
722261.399	4294426.58	5176	14-Nov-13	11142013-004.SSF	414817	26197
722261.399	4294426.58	4734	14-Nov-13	11142013-004.SSF	414818	26198
722261.399	4294426.58	4545	14-Nov-13	11142013-004.SSF	414819	26199
722261.399	4294426.58	4589	14-Nov-13	11142013-004.SSF	414820	26200
722261.399	4294426.58	5034	14-Nov-13	11142013-004.SSF	414821	26201
722261.399	4294426.58	7066	14-Nov-13	11142013-004.SSF	420434.6592	26202
722261.374	4294426.601	7976	14-Nov-13	11142013-004.SSF	420435.5186	26203
722261.355	4294426.627	7904	14-Nov-13	11142013-004.SSF	420436.5635	26204
722261.341	4294426.635	7796	14-Nov-13	11142013-004.SSF	420437.5059	26205
722261.303	4294426.643	7649	14-Nov-13	11142013-004.SSF	420438.5527	26206
722261.295	4294426.653	7282	14-Nov-13	11142013-004.SSF	420439.5254	26207
722261.355	4294426.668	7820	14-Nov-13	11142013-004.SSF	420440.4854	26208
722261.465	4294426.656	8075	14-Nov-13	11142013-004.SSF	420441.417	26209
722261.41	4294426.62	7388	14-Nov-13	11142013-004.SSF	420442.5635	26210
722261.072	4294426.394	8177	14-Nov-13	11142013-004.SSF	420443.4434	26211
722260.417	4294425.691	8944	14-Nov-13	11142013-004.SSF	420444.4971	26212
722259.677	4294424.766	7696	14-Nov-13	11142013-004.SSF	420445.4912	26213
722258.832	4294424.005	8224	14-Nov-13	11142013-004.SSF	420446.5215	26214
722258.168	4294423.666	7606	14-Nov-13	11142013-004.SSF	420447.4463	26215
722257.708	4294423.419	7781	14-Nov-13	11142013-004.SSF	420448.5654	26216
722257.531	4294423.279	7915	14-Nov-13	11142013-004.SSF	420449.459	26217
722257.243	4294423.01	8579	14-Nov-13	11142013-004.SSF	420450.6152	26218
722256.827	4294422.807	7574	14-Nov-13	11142013-004.SSF	420451.4775	26219
722256.282	4294422.586	7833	14-Nov-13	11142013-004.SSF	420452.5527	26220
722255.853	4294422.455	8198	14-Nov-13	11142013-004.SSF	420453.4932	26221
722255.361	4294422.195	7329	14-Nov-13	11142013-004.SSF	420454.5488	26222
722255.075	4294421.807	8102	14-Nov-13	11142013-004.SSF	420455.4443	26223
722255.194	4294421.697	8505	14-Nov-13	11142013-004.SSF	420456.585	26224
722255.358	4294421.836	8396	14-Nov-13	11142013-004.SSF	420457.4951	26225
722254.994	4294421.658	8009	14-Nov-13	11142013-004.SSF	420458.5195	26226
722254.264	4294421.431	8962	14-Nov-13	11142013-004.SSF	420459.5049	26227
722253.772	4294421.43	8480	14-Nov-13	11142013-004.SSF	420460.5615	26228
722253.725	4294421.449	8510	14-Nov-13	11142013-004.SSF	420461.4951	26229
722253.85	4294421.432	6987	14-Nov-13	11142013-004.SSF	420462.5732	26230
722253.932	4294421.33	7387	14-Nov-13	11142013-004.SSF	420463.4434	26231
722253.875	4294421.091	6886	14-Nov-13	11142013-004.SSF	420464.543	26232
722253.818	4294420.778	7331	14-Nov-13	11142013-004.SSF	420465.4307	26233
722253.846	4294420.324	8043	14-Nov-13	11142013-004.SSF	420466.5146	26234
722253.804	4294420.084	7710	14-Nov-13	11142013-004.SSF	420467.415	26235
722253.766	4294419.815	8137	14-Nov-13	11142013-004.SSF	420468.5254	26236
722253.882	4294419.539	7164	14-Nov-13	11142013-004.SSF	420469.5283	26237
722253.927	4294419.22	6291	14-Nov-13	11142013-004.SSF	420470.5439	26238
722253.965	4294418.807	6522	14-Nov-13	11142013-004.SSF	420471.4092	26239
722254.1	4294418.302	7180	14-Nov-13	11142013-004.SSF	420472.5098	26240
722254.078	4294418.042	7225	14-Nov-13	11142013-004.SSF	420473.4414	26241

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722253.722	4294417.902	7356	14-Nov-13	11142013-004.SSF	420474.5352	26242
722253.032	4294417.756	7359	14-Nov-13	11142013-004.SSF	420475.4727	26243
722251.796	4294417.554	8499	14-Nov-13	11142013-004.SSF	420476.5469	26244
722250.63	4294417.345	9175	14-Nov-13	11142013-004.SSF	420477.4912	26245
722249.61	4294416.778	8803	14-Nov-13	11142013-004.SSF	420478.5674	26246
722248.991	4294416.297	8741	14-Nov-13	11142013-004.SSF	420479.4932	26247
722248.526	4294415.897	9505	14-Nov-13	11142013-004.SSF	420480.5469	26248
722248.062	4294415.623	8016	14-Nov-13	11142013-004.SSF	420481.4512	26249
722247.196	4294415.323	8874	14-Nov-13	11142013-004.SSF	420482.5771	26250
722246.526	4294414.941	8728	14-Nov-13	11142013-004.SSF	420483.4463	26251
722245.725	4294414.306	8572	14-Nov-13	11142013-004.SSF	420484.583	26252
722245.062	4294413.641	8966	14-Nov-13	11142013-004.SSF	420485.5166	26253
722244.228	4294412.757	7885	14-Nov-13	11142013-004.SSF	420486.5527	26254
722243.544	4294412.026	8211	14-Nov-13	11142013-004.SSF	420487.4863	26255
722243.129	4294411.466	5652	14-Nov-13	11142013-004.SSF	420488.625	26256
722243.055	4294411.315	6874	14-Nov-13	11142013-004.SSF	420489.4756	26257
722243.085	4294411.139	6818	14-Nov-13	11142013-004.SSF	420490.543	26258
722243.016	4294410.807	6684	14-Nov-13	11142013-004.SSF	420491.5039	26259
722242.737	4294410.3	7641	14-Nov-13	11142013-004.SSF	420492.6299	26260
722242.53	4294409.884	8150	14-Nov-13	11142013-004.SSF	420493.5391	26261
722242.599	4294409.425	7407	14-Nov-13	11142013-004.SSF	420494.541	26262
722242.843	4294408.841	7162	14-Nov-13	11142013-004.SSF	420495.4434	26263
722242.994	4294407.948	6650	14-Nov-13	11142013-004.SSF	420496.5283	26264
722243.065	4294407.461	6312	14-Nov-13	11142013-004.SSF	420497.4414	26265
722243.219	4294407.322	6228	14-Nov-13	11142013-004.SSF	420498.5439	26266
722243.303	4294407.294	6867	14-Nov-13	11142013-004.SSF	420499.4561	26267
722243.357	4294407.15	6786	14-Nov-13	11142013-004.SSF	420500.541	26268
722243.664	4294406.945	6676	14-Nov-13	11142013-004.SSF	420501.4492	26269
722244.419	4294406.588	6409	14-Nov-13	11142013-004.SSF	420502.4922	26270
722245.34	4294406.065	6102	14-Nov-13	11142013-004.SSF	420503.4209	26271
722246.41	4294405.084	6685	14-Nov-13	11142013-004.SSF	420504.5498	26272
722247.016	4294404.04	6137	14-Nov-13	11142013-004.SSF	420505.541	26273
722247.404	4294403.093	6064	14-Nov-13	11142013-004.SSF	420506.5537	26274
722247.725	4294402.388	6586	14-Nov-13	11142013-004.SSF	420507.4619	26275
722248.009	4294401.413	5876	14-Nov-13	11142013-004.SSF	420508.6006	26276
722248.171	4294400.464	5938	14-Nov-13	11142013-004.SSF	420509.54	26277
722248.49	4294399.626	6846	14-Nov-13	11142013-004.SSF	420510.5664	26278
722248.709	4294399.19	7471	14-Nov-13	11142013-004.SSF	420511.4121	26279
722248.758	4294398.892	6997	14-Nov-13	11142013-004.SSF	420512.5293	26280
722248.78	4294398.76	7929	14-Nov-13	11142013-004.SSF	420513.4355	26281
722248.962	4294398.587	6902	14-Nov-13	11142013-004.SSF	420514.5352	26282
722249.107	4294398.365	8295	14-Nov-13	11142013-004.SSF	420515.4209	26283
722249.22	4294397.97	7233	14-Nov-13	11142013-004.SSF	420516.5137	26284
722249.263	4294397.65	7448	14-Nov-13	11142013-004.SSF	420517.4199	26285
722249.344	4294397.334	7592	14-Nov-13	11142013-004.SSF	420518.5293	26286
722249.478	4294397.067	7298	14-Nov-13	11142013-004.SSF	420519.3672	26287
722249.699	4294396.53	7704	14-Nov-13	11142013-004.SSF	420520.5342	26288

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722249.892	4294396.031	6906	14-Nov-13	11142013-004.SSF	420521.4482	26289
722249.96	4294395.49	7066	14-Nov-13	11142013-004.SSF	420522.5488	26290
722249.846	4294395.2	7346	14-Nov-13	11142013-004.SSF	420523.4395	26291
722249.771	4294394.996	7896	14-Nov-13	11142013-004.SSF	420524.5439	26292
722249.827	4294394.889	7704	14-Nov-13	11142013-004.SSF	420525.3398	26293
722249.909	4294394.763	6636	14-Nov-13	11142013-004.SSF	420526.4092	26294
722269.522	4294431.215	8728	14-Nov-13	11142013-004.SSF	421666.3281	26295
722269.491	4294431.232	8962	14-Nov-13	11142013-004.SSF	421667.1416	26296
722269.096	4294431.371	8390	14-Nov-13	11142013-004.SSF	421668.2871	26297
722268.744	4294431.827	8637	14-Nov-13	11142013-004.SSF	421669.1104	26298
722268.64	4294432.217	7679	14-Nov-13	11142013-004.SSF	421670.248	26299
722268.66	4294432.173	8130	14-Nov-13	11142013-004.SSF	421671.0889	26300
722268.695	4294432.046	8722	14-Nov-13	11142013-004.SSF	421672.1846	26301
722268.676	4294431.963	8090	14-Nov-13	11142013-004.SSF	421673.043	26302
722268.416	4294431.82	9042	14-Nov-13	11142013-004.SSF	421674.1396	26303
722267.731	4294431.914	8950	14-Nov-13	11142013-004.SSF	421675.2656	26304
722267.12	4294431.794	9257	14-Nov-13	11142013-004.SSF	421676.2832	26305
722266.716	4294431.563	9424	14-Nov-13	11142013-004.SSF	421677.0947	26306
722266.357	4294431.367	9046	14-Nov-13	11142013-004.SSF	421678.1445	26307
722266.377	4294431.334	8591	14-Nov-13	11142013-004.SSF	421679.0527	26308
722266.157	4294431.382	8628	14-Nov-13	11142013-004.SSF	421680.1826	26309
722265.59	4294431.023	9207	14-Nov-13	11142013-004.SSF	421681.1826	26310
722264.841	4294430.789	9291	14-Nov-13	11142013-004.SSF	421682.2061	26311
722264.213	4294430.54	8923	14-Nov-13	11142013-004.SSF	421683.0674	26312
722263.561	4294430.261	9370	14-Nov-13	11142013-004.SSF	421684.251	26313
722263.328	4294430.106	9572	14-Nov-13	11142013-004.SSF	421685.0566	26314
722263.305	4294430.079	9353	14-Nov-13	11142013-004.SSF	421686.2422	26315
722263.195	4294430.215	8788	14-Nov-13	11142013-004.SSF	421687.1377	26316
722262.772	4294430.078	8347	14-Nov-13	11142013-004.SSF	421688.2412	26317
722262.529	4294429.924	9976	14-Nov-13	11142013-004.SSF	421689.0586	26318
722262.53	4294429.949	8704	14-Nov-13	11142013-004.SSF	421690.1152	26319
722262.621	4294429.851	8536	14-Nov-13	11142013-004.SSF	421691.0908	26320
722262.66	4294429.652	8764	14-Nov-13	11142013-004.SSF	421692.1631	26321
722262.67	4294429.632	7591	14-Nov-13	11142013-004.SSF	421693.0361	26322
722262.502	4294429.445	8167	14-Nov-13	11142013-004.SSF	421694.2451	26323
722262.133	4294429.035	8612	14-Nov-13	11142013-004.SSF	421695.0635	26324
722261.373	4294427.749	7733	14-Nov-13	11142013-004.SSF	421696.2783	26325
722260.717	4294426.756	7303	14-Nov-13	11142013-004.SSF	421697.0801	26326
722259.944	4294425.49	7556	14-Nov-13	11142013-004.SSF	421698.2695	26327
722259.644	4294424.934	7379	14-Nov-13	11142013-004.SSF	421699.0762	26328
722259.296	4294424.598	7004	14-Nov-13	11142013-004.SSF	421700.2588	26329
722259.043	4294424.448	7721	14-Nov-13	11142013-004.SSF	421701.0615	26330
722258.56	4294424.243	7240	14-Nov-13	11142013-004.SSF	421702.1104	26331
722257.988	4294423.801	7270	14-Nov-13	11142013-004.SSF	421703.0342	26332
722256.59	4294423.221	7487	14-Nov-13	11142013-004.SSF	421704.2402	26333
722255.619	4294422.826	8681	14-Nov-13	11142013-004.SSF	421705.0654	26334
722254.596	4294422.31	9430	14-Nov-13	11142013-004.SSF	421706.2432	26335

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722253.263	4294421.222	9334	14-Nov-13	11142013-004.SSF	421708.2646	26337
722252.53	4294420.447	8003	14-Nov-13	11142013-004.SSF	421709.1133	26338
722251.402	4294419.463	7101	14-Nov-13	11142013-004.SSF	421710.2598	26339
722250.786	4294418.736	7415	14-Nov-13	11142013-004.SSF	421711.0898	26340
722249.919	4294417.709	7553	14-Nov-13	11142013-004.SSF	421712.1357	26341
722249.099	4294416.646	8218	14-Nov-13	11142013-004.SSF	421713.165	26342
722248.559	4294415.763	9734	14-Nov-13	11142013-004.SSF	421714.21	26343
722247.864	4294415.325	9513	14-Nov-13	11142013-004.SSF	421715.0732	26344
722246.943	4294414.858	10358	14-Nov-13	11142013-004.SSF	421716.0811	26345
722246.37	4294414.379	9549	14-Nov-13	11142013-004.SSF	421717.0605	26346
722245.567	4294414.002	8837	14-Nov-13	11142013-004.SSF	421718.2363	26347
722245.243	4294413.641	9589	14-Nov-13	11142013-004.SSF	421719.083	26348
722245.465	4294413.243	9177	14-Nov-13	11142013-004.SSF	421720.126	26349
722246.047	4294413.173	8534	14-Nov-13	11142013-004.SSF	421721.0762	26350
722246.387	4294413.641	8223	14-Nov-13	11142013-004.SSF	421722.1377	26351
722246.739	4294414.339	8385	14-Nov-13	11142013-004.SSF	421723.0527	26352
722247.525	4294415.041	8426	14-Nov-13	11142013-004.SSF	421724.0791	26353
722248.334	4294415.833	7686	14-Nov-13	11142013-004.SSF	421725.0244	26354
722249.554	4294416.728	9301	14-Nov-13	11142013-004.SSF	421726.2754	26355
722250.229	4294417.258	8445	14-Nov-13	11142013-004.SSF	421727.0557	26356
722250.98	4294418.302	8651	14-Nov-13	11142013-004.SSF	421728.0654	26357
722251.646	4294419.408	9093	14-Nov-13	11142013-004.SSF	421729.0801	26358
722252.246	4294420.095	9443	14-Nov-13	11142013-004.SSF	421730.127	26359
722252.667	4294420.704	7760	14-Nov-13	11142013-004.SSF	421731.0166	26360
722253.523	4294421.682	8990	14-Nov-13	11142013-004.SSF	421732.0918	26361
722254.595	4294422.341	8757	14-Nov-13	11142013-004.SSF	421733.124	26362
722255.633	4294422.709	8339	14-Nov-13	11142013-004.SSF	421734.1133	26363
722256.511	4294422.876	7845	14-Nov-13	11142013-004.SSF	421734.9355	26364
722257.644	4294423.175	7931	14-Nov-13	11142013-004.SSF	421736.248	26365
722258.301	4294423.626	7892	14-Nov-13	11142013-004.SSF	421737.0645	26366
722259.033	4294424.298	7673	14-Nov-13	11142013-004.SSF	421738.0869	26367
722259.696	4294424.858	7438	14-Nov-13	11142013-004.SSF	421739.0801	26368
722260.489	4294425.663	6389	14-Nov-13	11142013-004.SSF	421740.2559	26369
722260.974	4294426.322	7267	14-Nov-13	11142013-004.SSF	421741.1328	26370
722261.763	4294427.089	8056	14-Nov-13	11142013-004.SSF	421742.2451	26371
722262.404	4294427.565	7984	14-Nov-13	11142013-004.SSF	421743.0547	26372
722262.833	4294428.262	8386	14-Nov-13	11142013-004.SSF	421744.0762	26373
722263.315	4294428.905	8366	14-Nov-13	11142013-004.SSF	421745.127	26374
722263.755	4294429.459	8541	14-Nov-13	11142013-004.SSF	421746.1162	26375
722264.121	4294429.973	8165	14-Nov-13	11142013-004.SSF	421747.1074	26376
722264.65	4294430.354	8131	14-Nov-13	11142013-004.SSF	421748.2305	26377
722265.049	4294430.667	8452	14-Nov-13	11142013-004.SSF	421749.1016	26378
722265.647	4294430.957	8533	14-Nov-13	11142013-004.SSF	421750.2412	26379
722266.128	4294431.099	8523	14-Nov-13	11142013-004.SSF	421751.0566	26380
722266.933	4294431.448	8730	14-Nov-13	11142013-004.SSF	421752.2305	26381
722267.402	4294431.836	9202	14-Nov-13	11142013-004.SSF	421753.0547	26382

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722268.556	4294431.925	9005	14-Nov-13	11142013-004.SSF	421755.0645	26384
722268.929	4294430.801	8941	14-Nov-13	11142013-004.SSF	421756.1816	26385
722268.716	4294429.854	8925	14-Nov-13	11142013-004.SSF	421757.1221	26386
722268.075	4294429.38	8591	14-Nov-13	11142013-004.SSF	421758.2529	26387
722267.401	4294429.34	8028	14-Nov-13	11142013-004.SSF	421759.0586	26388
722266.133	4294428.724	8577	14-Nov-13	11142013-004.SSF	421760.2598	26389
722265.502	4294428.294	9014	14-Nov-13	11142013-004.SSF	421761.083	26390
722265.313	4294427.942	7203	14-Nov-13	11142013-004.SSF	421762.1641	26391
722265.074	4294427.831	7950	14-Nov-13	11142013-004.SSF	421763.0889	26392
722264.76	4294427.668	8497	14-Nov-13	11142013-004.SSF	421764.2256	26393
722264.569	4294427.596	7374	14-Nov-13	11142013-004.SSF	421765.0547	26394
722264.461	4294427.607	7633	14-Nov-13	11142013-004.SSF	421766.2314	26395
722264.379	4294427.573	7548	14-Nov-13	11142013-004.SSF	421767.0586	26396
722263.752	4294427.547	8577	14-Nov-13	11142013-004.SSF	421768.2139	26397
722263.257	4294427.406	8024	14-Nov-13	11142013-004.SSF	421769.0488	26398
722263.118	4294427.006	8396	14-Nov-13	11142013-004.SSF	421770.1494	26399
722262.889	4294426.616	7739	14-Nov-13	11142013-004.SSF	421771.1572	26400
722262.474	4294425.865	7124	14-Nov-13	11142013-004.SSF	421772.1807	26401
722261.883	4294425.13	6941	14-Nov-13	11142013-004.SSF	421773.0352	26402
722261.105	4294424.226	6805	14-Nov-13	11142013-004.SSF	421774.1904	26403
722260.658	4294423.393	7251	14-Nov-13	11142013-004.SSF	421775.0596	26404
722259.936	4294422.597	8472	14-Nov-13	11142013-004.SSF	421775.9756	26405
722259.113	4294422.112	8118	14-Nov-13	11142013-004.SSF	421777.0654	26406
722258.785	4294421.201	7459	14-Nov-13	11142013-004.SSF	421778.1475	26407
722258.545	4294420.405	8464	14-Nov-13	11142013-004.SSF	421778.9893	26408
722257.901	4294419.752	8746	14-Nov-13	11142013-004.SSF	421780.0586	26409
722257.335	4294419.285	8996	14-Nov-13	11142013-004.SSF	421781.083	26410
722256.864	4294418.492	8579	14-Nov-13	11142013-004.SSF	421782.1201	26411
722256.178	4294417.868	7965	14-Nov-13	11142013-004.SSF	421783.0527	26412
722255.151	4294416.926	8081	14-Nov-13	11142013-004.SSF	421784.0801	26413
722254.238	4294416.257	7360	14-Nov-13	11142013-004.SSF	421785.0635	26414
722253.937	4294416.076	7300	14-Nov-13	11142013-004.SSF	421786.0752	26415
722253.777	4294415.708	7495	14-Nov-13	11142013-004.SSF	421787.0527	26416
722252.94	4294415.15	8173	14-Nov-13	11142013-004.SSF	421788.042	26417
722251.804	4294414.683	7983	14-Nov-13	11142013-004.SSF	421789.0996	26418
722251.102	4294414.346	8445	14-Nov-13	11142013-004.SSF	421790.124	26419
722250.573	4294414.138	8621	14-Nov-13	11142013-004.SSF	421791.0723	26420
722249.987	4294413.849	9085	14-Nov-13	11142013-004.SSF	421792.0791	26421
722249.752	4294413.635	8871	14-Nov-13	11142013-004.SSF	421793.0225	26422
722249.677	4294413.447	8937	14-Nov-13	11142013-004.SSF	421794.0391	26423
722249.345	4294413.355	9014	14-Nov-13	11142013-004.SSF	421795.0254	26424
722248.877	4294413.53	8643	14-Nov-13	11142013-004.SSF	421796.0088	26425
722248.485	4294413.783	7560	14-Nov-13	11142013-004.SSF	421796.9941	26426
722247.982	4294413.688	8610	14-Nov-13	11142013-004.SSF	421798.0996	26427
722247.541	4294413.078	8482	14-Nov-13	11142013-004.SSF	421798.9404	26428
722246.488	4294412.346	8330	14-Nov-13	11142013-004.SSF	421800.1123	26429

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722245.604	4294411.694	8238	14-Nov-13	11142013-004.SSF	421802.1348	26431
722245.58	4294411.447	8019	14-Nov-13	11142013-004.SSF	421803.0557	26432
722245.383	4294411.063	5517	14-Nov-13	11142013-004.SSF	421804.1992	26433
722245.177	4294410.693	5931	14-Nov-13	11142013-004.SSF	421805.1191	26434
722245.51	4294410.06	5863	14-Nov-13	11142013-004.SSF	421806.1006	26435
722245.865	4294409.032	5843	14-Nov-13	11142013-004.SSF	421807.0303	26436
722246.025	4294407.884	6871	14-Nov-13	11142013-004.SSF	421808.1357	26437
722246.513	4294407.502	6697	14-Nov-13	11142013-004.SSF	421809.0723	26438
722247.285	4294406.867	6984	14-Nov-13	11142013-004.SSF	421810.0635	26439
722248.082	4294406.132	7236	14-Nov-13	11142013-004.SSF	421810.9951	26440
722248.699	4294405.616	6189	14-Nov-13	11142013-004.SSF	421812.0742	26441
722248.685	4294404.866	7787	14-Nov-13	11142013-004.SSF	421813.0723	26442
722249.115	4294403.731	7016	14-Nov-13	11142013-004.SSF	421814.0645	26443
722249.14	4294402.564	7754	14-Nov-13	11142013-004.SSF	421814.9639	26444
722249.089	4294401.302	7968	14-Nov-13	11142013-004.SSF	421816.0752	26445
722249.092	4294400.445	7752	14-Nov-13	11142013-004.SSF	421817.0635	26446
722249.007	4294399.723	7188	14-Nov-13	11142013-004.SSF	421818.0771	26447
722249.065	4294399.307	8667	14-Nov-13	11142013-004.SSF	421819.0342	26448
722249.116	4294398.776	6576	14-Nov-13	11142013-004.SSF	421820.1006	26449
722249.62	4294398.152	7374	14-Nov-13	11142013-004.SSF	421821.0381	26450
722250.439	4294397.357	7933	14-Nov-13	11142013-004.SSF	421822.0879	26451
722250.645	4294396.396	7353	14-Nov-13	11142013-004.SSF	421823.002	26452
722251.293	4294395.104	6878	14-Nov-13	11142013-004.SSF	421824.1152	26453
722251.606	4294394.319	6369	14-Nov-13	11142013-004.SSF	421825.0674	26454
722251.14	4294393.985	7262	14-Nov-13	11142013-004.SSF	421826.0586	26455
722250.408	4294393.707	7305	14-Nov-13	11142013-004.SSF	421827.0713	26456
722249.684	4294393.802	7736	14-Nov-13	11142013-004.SSF	421828.0781	26457
722248.539	4294394.229	7214	14-Nov-13	11142013-004.SSF	421829.1396	26458
722247.837	4294394.836	7203	14-Nov-13	11142013-004.SSF	421830.0889	26459
722247.742	4294395.786	8280	14-Nov-13	11142013-004.SSF	421830.959	26460
722246.983	4294396.564	7830	14-Nov-13	11142013-004.SSF	421832.1113	26461
722246.371	4294396.984	7567	14-Nov-13	11142013-004.SSF	421832.9209	26462
722246.166	4294398.056	6992	14-Nov-13	11142013-004.SSF	421834.1133	26463
722245.945	4294398.675	6968	14-Nov-13	11142013-004.SSF	421835.0029	26464
722245.604	4294399.436	7592	14-Nov-13	11142013-004.SSF	421836.1182	26465
722245.331	4294399.909	7208	14-Nov-13	11142013-004.SSF	421836.9395	26466
722245.315	4294400.563	7562	14-Nov-13	11142013-004.SSF	421838.1729	26467
722245.315	4294401.209	7680	14-Nov-13	11142013-004.SSF	421839.0234	26468
722245.537	4294400.84	7470	14-Nov-13	11142013-004.SSF	421840.0684	26469
722246.532	4294399.592	7357	14-Nov-13	11142013-004.SSF	421840.9941	26470
722247.253	4294398.163	7269	14-Nov-13	11142013-004.SSF	421842.0781	26471
722247.298	4294397.19	7877	14-Nov-13	11142013-004.SSF	421843.0059	26472
722247.908	4294396.411	8119	14-Nov-13	11142013-004.SSF	421844.0439	26473
722248.491	4294395.591	8179	14-Nov-13	11142013-004.SSF	421844.9902	26474
722248.581	4294394.405	8525	14-Nov-13	11142013-004.SSF	421846.1211	26475
722249.171	4294393.615	7351	14-Nov-13	11142013-004.SSF	421847.0488	26476

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722250.198	4294392.921	7367	14-Nov-13	11142013-004.SSF	421848.9307	26478
722249.972	4294393.394	7871	14-Nov-13	11142013-004.SSF	421907.0254	26479
722249.872	4294393.622	7998	14-Nov-13	11142013-004.SSF	421908.0283	26480
722249.929	4294394.265	7579	14-Nov-13	11142013-004.SSF	421908.9658	26481
722249.457	4294395.351	7174	14-Nov-13	11142013-004.SSF	421910.0664	26482
722248.815	4294396.153	7943	14-Nov-13	11142013-004.SSF	421910.9141	26483
722248.669	4294397.232	7626	14-Nov-13	11142013-004.SSF	421912.0557	26484
722248.532	4294398.181	8806	14-Nov-13	11142013-004.SSF	421912.998	26485
722247.756	4294399.125	8771	14-Nov-13	11142013-004.SSF	421914.0332	26486
722247.504	4294399.907	8073	14-Nov-13	11142013-004.SSF	421914.9648	26487
722247.696	4294400.88	7358	14-Nov-13	11142013-004.SSF	421916.0938	26488
722247.353	4294401.555	7299	14-Nov-13	11142013-004.SSF	421916.9971	26489
722246.976	4294402.35	6025	14-Nov-13	11142013-004.SSF	421918.002	26490
722247.038	4294403.058	6644	14-Nov-13	11142013-004.SSF	421918.9355	26491
722246.564	4294403.774	6191	14-Nov-13	11142013-004.SSF	421920.1289	26492
722246.219	4294404.386	7277	14-Nov-13	11142013-004.SSF	421920.957	26493
722245.986	4294405.371	7039	14-Nov-13	11142013-004.SSF	421922.1309	26494
722245.601	4294405.961	6829	14-Nov-13	11142013-004.SSF	421923.0381	26495
722244.891	4294406.286	6207	14-Nov-13	11142013-004.SSF	421924.0527	26496
722244.782	4294406.707	6652	14-Nov-13	11142013-004.SSF	421924.9893	26497
722244.491	4294407.418	7183	14-Nov-13	11142013-004.SSF	421926.04	26498
722244.082	4294407.91	6595	14-Nov-13	11142013-004.SSF	421926.9092	26499
722244.108	4294408.671	6359	14-Nov-13	11142013-004.SSF	421928.0713	26500
722244.116	4294409.286	6134	14-Nov-13	11142013-004.SSF	421928.9502	26501
722243.735	4294409.794	5960	14-Nov-13	11142013-004.SSF	421930.1221	26502
722243.895	4294409.879	6007	14-Nov-13	11142013-004.SSF	421931.0615	26503
722244.219	4294409.924	6123	14-Nov-13	11142013-004.SSF	421932.0391	26504
722244.246	4294410.136	6150	14-Nov-13	11142013-004.SSF	421933.0039	26505
722244.033	4294410.448	7027	14-Nov-13	11142013-004.SSF	421934.0781	26506
722243.966	4294410.499	6347	14-Nov-13	11142013-004.SSF	421934.9492	26507
722243.885	4294410.653	5710	14-Nov-13	11142013-004.SSF	421936.1094	26508
722244.291	4294411.02	6941	14-Nov-13	11142013-004.SSF	421937.0293	26509
722244.695	4294411.835	8995	14-Nov-13	11142013-004.SSF	421938.1123	26510
722244.825	4294412.282	9029	14-Nov-13	11142013-004.SSF	421938.9854	26511
722244.892	4294412.892	8857	14-Nov-13	11142013-004.SSF	421939.998	26512
722245.36	4294413.301	7704	14-Nov-13	11142013-004.SSF	421940.9365	26513
722246.23	4294413.399	8226	14-Nov-13	11142013-004.SSF	421942.0391	26514
722246.805	4294414.031	8296	14-Nov-13	11142013-004.SSF	421942.8789	26515
722248.094	4294414.62	7714	14-Nov-13	11142013-004.SSF	421944.0254	26516
722249.154	4294414.879	8138	14-Nov-13	11142013-004.SSF	421944.9424	26517
722249.914	4294415.473	8304	14-Nov-13	11142013-004.SSF	421946.0547	26518
722250.532	4294415.845	8526	14-Nov-13	11142013-004.SSF	421946.9814	26519
722251.488	4294416.78	8401	14-Nov-13	11142013-004.SSF	421948.2422	26520
722252.041	4294417.245	7920	14-Nov-13	11142013-004.SSF	421948.915	26521
722252.968	4294417.432	6780	14-Nov-13	11142013-004.SSF	421950.0566	26522
722253.493	4294417.859	8115	14-Nov-13	11142013-004.SSF	421950.9824	26523

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722255.039	4294418.692	8314	14-Nov-13	11142013-004.SSF	421952.9834	26525
722255.494	4294419.559	7388	14-Nov-13	11142013-004.SSF	421954.0996	26526
722256.039	4294419.971	8447	14-Nov-13	11142013-004.SSF	421954.9873	26527
722256.872	4294420.36	7541	14-Nov-13	11142013-004.SSF	421956.043	26528
722257.303	4294421.254	8395	14-Nov-13	11142013-004.SSF	421957.0352	26529
722257.665	4294422.172	7409	14-Nov-13	11142013-004.SSF	421958.1084	26530
722258.131	4294422.422	7882	14-Nov-13	11142013-004.SSF	421958.9209	26531
722258.863	4294422.808	7100	14-Nov-13	11142013-004.SSF	421960.0586	26532
722259.148	4294423.487	8855	14-Nov-13	11142013-004.SSF	421960.9863	26533
722259.603	4294423.918	8633	14-Nov-13	11142013-004.SSF	421962.0488	26534
722260.014	4294424.133	7738	14-Nov-13	11142013-004.SSF	421962.998	26535
722260.481	4294424.346	8204	14-Nov-13	11142013-004.SSF	421964.0508	26536
722260.956	4294424.732	8081	14-Nov-13	11142013-004.SSF	421965.0566	26537
722261.277	4294425.305	7270	14-Nov-13	11142013-004.SSF	421966.0576	26538
722261.642	4294425.536	7907	14-Nov-13	11142013-004.SSF	421966.9824	26539
722262.047	4294426.048	7136	14-Nov-13	11142013-004.SSF	421968.0049	26540
722262.294	4294426.926	7604	14-Nov-13	11142013-004.SSF	421968.9395	26541
722262.807	4294427.691	7241	14-Nov-13	11142013-004.SSF	421970.0342	26542
722263.195	4294428.414	7330	14-Nov-13	11142013-004.SSF	421970.8926	26543
722263.831	4294429.172	7022	14-Nov-13	11142013-004.SSF	421971.9883	26544
722264.335	4294429.609	7905	14-Nov-13	11142013-004.SSF	421972.875	26545
722264.933	4294430.193	7526	14-Nov-13	11142013-004.SSF	421974.0127	26546
722265.584	4294430.349	8901	14-Nov-13	11142013-004.SSF	421974.8828	26547
722266.475	4294430.385	9155	14-Nov-13	11142013-004.SSF	421976.0508	26548
722267.008	4294431.084	9488	14-Nov-13	11142013-004.SSF	421977.0742	26549
722267.813	4294431.475	8012	14-Nov-13	11142013-004.SSF	421978.1328	26550
722268.246	4294431.543	8813	14-Nov-13	11142013-004.SSF	421978.9521	26551
722268.238	4294431.437	9043	14-Nov-13	11142013-004.SSF	421979.9873	26552
722268.116	4294431.153	7931	14-Nov-13	11142013-004.SSF	421980.8857	26553
722267.95	4294430.869	8972	14-Nov-13	11142013-004.SSF	421982.0518	26554
722267.708	4294430.665	9263	14-Nov-13	11142013-004.SSF	421982.9658	26555
722267.236	4294430.437	9635	14-Nov-13	11142013-004.SSF	421983.9248	26556
722266.692	4294430.245	9399	14-Nov-13	11142013-004.SSF	421984.8682	26557
722266.196	4294429.978	8109	14-Nov-13	11142013-004.SSF	421986.0137	26558
722265.817	4294429.948	8177	14-Nov-13	11142013-004.SSF	421986.96	26559
722265.322	4294429.83	8284	14-Nov-13	11142013-004.SSF	421987.96	26560
722264.585	4294429.671	8401	14-Nov-13	11142013-004.SSF	421988.9629	26561
722263.772	4294429.195	8730	14-Nov-13	11142013-004.SSF	421989.9443	26562
722263.01	4294428.698	7312	14-Nov-13	11142013-004.SSF	421990.8633	26563
722262.046	4294428.552	6898	14-Nov-13	11142013-004.SSF	421992.001	26564
722261.315	4294428.163	7784	14-Nov-13	11142013-004.SSF	421992.8643	26565
722260.407	4294427.434	7856	14-Nov-13	11142013-004.SSF	421994.0117	26566
722259.631	4294427.121	7994	14-Nov-13	11142013-004.SSF	421994.9521	26567
722258.874	4294426.656	7338	14-Nov-13	11142013-004.SSF	421996.042	26568
722258.43	4294426.045	8374	14-Nov-13	11142013-004.SSF	421996.9619	26569
722257.731	4294425.525	7523	14-Nov-13	11142013-004.SSF	421998.0264	26570

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722256.533	4294424.462	7707	14-Nov-13	11142013-004.SSF	421999.9502	26572
722255.982	4294424.049	8167	14-Nov-13	11142013-004.SSF	422000.9365	26573
722255.232	4294423.684	8101	14-Nov-13	11142013-004.SSF	422002.0684	26574
722254.773	4294423.033	9015	14-Nov-13	11142013-004.SSF	422002.9932	26575
722254.057	4294422.56	9003	14-Nov-13	11142013-004.SSF	422004.0977	26576
722253.268	4294422.519	7921	14-Nov-13	11142013-004.SSF	422005.0137	26577
722252.621	4294422.459	6930	14-Nov-13	11142013-004.SSF	422006.1016	26578
722252.392	4294422.54	8152	14-Nov-13	11142013-004.SSF	422006.9102	26579
722252.231	4294422.447	7738	14-Nov-13	11142013-004.SSF	422008.0879	26580
722252.067	4294422.212	7784	14-Nov-13	11142013-004.SSF	422008.8994	26581
722251.798	4294421.998	8516	14-Nov-13	11142013-004.SSF	422009.959	26582
722251.539	4294421.856	8489	14-Nov-13	11142013-004.SSF	422010.8623	26583
722251.136	4294421.5	8782	14-Nov-13	11142013-004.SSF	422011.9229	26584
722250.564	4294421.002	8735	14-Nov-13	11142013-004.SSF	422012.9238	26585
722250.1	4294419.861	8033	14-Nov-13	11142013-004.SSF	422013.9893	26586
722249.306	4294418.932	7408	14-Nov-13	11142013-004.SSF	422014.8672	26587
722248.291	4294417.403	7342	14-Nov-13	11142013-004.SSF	422016.0615	26588
722247.768	4294416.406	8885	14-Nov-13	11142013-004.SSF	422016.9893	26589
722247.295	4294415.832	8791	14-Nov-13	11142013-004.SSF	422018.0186	26590
722247.029	4294415.281	8737	14-Nov-13	11142013-004.SSF	422018.8848	26591
722246.418	4294414.697	9204	14-Nov-13	11142013-004.SSF	422019.9629	26592
722246.046	4294414.521	10131	14-Nov-13	11142013-004.SSF	422020.9043	26593
722246.044	4294414.562	9762	14-Nov-13	11142013-004.SSF	422021.9854	26594
722246.045	4294414.552	9400	14-Nov-13	11142013-004.SSF	422022.8604	26595
722246.052	4294414.453	7330	14-Nov-13	11142013-004.SSF	422024.0029	26596
722246.124	4294414.455	9992	14-Nov-13	11142013-004.SSF	422024.8936	26597
722246.201	4294414.519	8948	14-Nov-13	11142013-004.SSF	422026.1152	26598
722246.262	4294414.573	8567	14-Nov-13	11142013-004.SSF	422027.0137	26599
722246.182	4294414.239	8201	14-Nov-13	11142013-004.SSF	422028.0352	26600
722245.942	4294413.626	9640	14-Nov-13	11142013-004.SSF	422029.0176	26601
722245.538	4294413.373	8650	14-Nov-13	11142013-004.SSF	422030.0225	26602
722245.275	4294413.467	7952	14-Nov-13	11142013-004.SSF	422030.9307	26603
722245.258	4294413.397	9758	14-Nov-13	11142013-004.SSF	422031.9893	26604
722244.912	4294413.202	9219	14-Nov-13	11142013-004.SSF	422032.8936	26605
722244.65	4294412.365	8995	14-Nov-13	11142013-004.SSF	422033.915	26606
722244.132	4294411.716	7348	14-Nov-13	11142013-004.SSF	422034.8359	26607
722243.361	4294411.692	6547	14-Nov-13	11142013-004.SSF	422035.9443	26608
722243.351	4294411.5	6496	14-Nov-13	11142013-004.SSF	422036.8359	26609
722243.39	4294410.571	6124	14-Nov-13	11142013-004.SSF	422038.0967	26610
722243.447	4294409.62	7231	14-Nov-13	11142013-004.SSF	422038.9189	26611
722243.608	4294408.145	6877	14-Nov-13	11142013-004.SSF	422040.0986	26612
722243.523	4294407.274	7419	14-Nov-13	11142013-004.SSF	422040.9014	26613
722244.027	4294406.236	6115	14-Nov-13	11142013-004.SSF	422042.1201	26614
722244.462	4294405.73	6478	14-Nov-13	11142013-004.SSF	422042.9414	26615
722244.461	4294405.566	7169	14-Nov-13	11142013-004.SSF	422043.9512	26616
722244.544	4294405.584	7342	14-Nov-13	11142013-004.SSF	422044.9463	26617

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722245.218	4294405.032	6593	14-Nov-13	11142013-004.SSF	422046.7979	26619
722246.068	4294404.676	6448	14-Nov-13	11142013-004.SSF	422047.9541	26620
722246.928	4294404.118	7132	14-Nov-13	11142013-004.SSF	422048.9053	26621
722247.481	4294403.322	6943	14-Nov-13	11142013-004.SSF	422049.9639	26622
722246.93	4294401.026	7041	14-Nov-13	11142013-004.SSF	422051.9951	26624
722246.723	4294400.043	7040	14-Nov-13	11142013-004.SSF	422052.9365	26625
722246.891	4294399.136	7760	14-Nov-13	11142013-004.SSF	422053.9746	26626
722247.39	4294398.388	6680	14-Nov-13	11142013-004.SSF	422054.9912	26627
722247.929	4294397.72	7340	14-Nov-13	11142013-004.SSF	422056.0723	26628
722248.215	4294397.285	6395	14-Nov-13	11142013-004.SSF	422056.9473	26629
722235.288	4294310.44	4807	15-Nov-13	11152013-0001.SSF	480912.628	26630
722235.294	4294310.44	5186	15-Nov-13	11152013-0001.SSF	480913.576	26631
722235.307	4294310.439	4845	15-Nov-13	11152013-0001.SSF	480914.49	26632
722235.318	4294310.445	4870	15-Nov-13	11152013-0001.SSF	480915.543	26633
722235.322	4294310.443	5289	15-Nov-13	11152013-0001.SSF	480916.496	26634
722235.32	4294310.446	4925	15-Nov-13	11152013-0001.SSF	480917.516	26635
722235.313	4294310.449	5223	15-Nov-13	11152013-0001.SSF	480918.495	26636
722235.308	4294310.439	5015	15-Nov-13	11152013-0001.SSF	480919.523	26637
722235.311	4294310.423	5416	15-Nov-13	11152013-0001.SSF	480920.56	26638
722235.311	4294310.415	5131	15-Nov-13	11152013-0001.SSF	480921.671	26639
722235.308	4294310.415	4724	15-Nov-13	11152013-0001.SSF	480922.599	26640
722235.31	4294310.411	4637	15-Nov-13	11152013-0001.SSF	480923.612	26641
722235.315	4294310.406	4896	15-Nov-13	11152013-0001.SSF	480924.5	26642
722235.305	4294310.399	5079	15-Nov-13	11152013-0001.SSF	480925.665	26643
722235.297	4294310.399	5407	15-Nov-13	11152013-0001.SSF	480926.533	26644
722235.294	4294310.403	5343	15-Nov-13	11152013-0001.SSF	480927.628	26645
722235.29	4294310.402	5646	15-Nov-13	11152013-0001.SSF	480928.594	26646
722235.281	4294310.396	5403	15-Nov-13	11152013-0001.SSF	480929.706	26647
722235.266	4294310.384	4884	15-Nov-13	11152013-0001.SSF	480930.61	26648
722149.916	4294308.927	8384	15-Nov-13	11152013-0001.SSF	481371.455	26649
722149.912	4294308.932	7676	15-Nov-13	11152013-0001.SSF	481372.353	26650
722149.912	4294309	8579	15-Nov-13	11152013-0001.SSF	481373.425	26651
722149.846	4294309.049	8744	15-Nov-13	11152013-0001.SSF	481374.317	26652
722149.719	4294309.051	9896	15-Nov-13	11152013-0001.SSF	481375.389	26653
722149.705	4294309.073	8534	15-Nov-13	11152013-0001.SSF	481376.361	26654
722149.712	4294309.153	8703	15-Nov-13	11152013-0001.SSF	481377.389	26655
722149.575	4294309.321	9705	15-Nov-13	11152013-0001.SSF	481378.315	26656
722149.33	4294309.787	8786	15-Nov-13	11152013-0001.SSF	481379.425	26657
722149.079	4294310.288	9846	15-Nov-13	11152013-0001.SSF	481380.362	26658
722148.775	4294310.847	9211	15-Nov-13	11152013-0001.SSF	481381.488	26659
722148.597	4294311.254	9262	15-Nov-13	11152013-0001.SSF	481382.435	26660
722148.586	4294311.548	8915	15-Nov-13	11152013-0001.SSF	481383.434	26661
722148.637	4294311.719	8379	15-Nov-13	11152013-0001.SSF	481384.417	26662
722148.569	4294311.96	9294	15-Nov-13	11152013-0001.SSF	481385.43	26663
722148.487	4294312.314	8833	15-Nov-13	11152013-0001.SSF	481386.441	26664
722148.479	4294312.596	8388	15-Nov-13	11152013-0001.SSF	481387.513	26665

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722148.487	4294312.629	7536	15-Nov-13	11152013-0001.SSF	481389.436	26667
722148.384	4294312.58	8064	15-Nov-13	11152013-0001.SSF	481390.392	26668
722148.364	4294312.598	8496	15-Nov-13	11152013-0001.SSF	481391.405	26669
722148.389	4294312.637	8934	15-Nov-13	11152013-0001.SSF	481392.342	26670
722148.312	4294312.542	7573	15-Nov-13	11152013-0001.SSF	481393.447	26671
722148.205	4294312.484	9273	15-Nov-13	11152013-0001.SSF	481394.315	26672
722148.234	4294312.739	8618	15-Nov-13	11152013-0001.SSF	481395.449	26673
722148.298	4294312.876	8664	15-Nov-13	11152013-0001.SSF	481396.364	26674
722148.45	4294312.833	8166	15-Nov-13	11152013-0001.SSF	481397.406	26675
722148.668	4294312.729	8641	15-Nov-13	11152013-0001.SSF	481398.39	26676
722148.836	4294312.604	8250	15-Nov-13	11152013-0001.SSF	481399.486	26677
722148.926	4294312.395	9172	15-Nov-13	11152013-0001.SSF	481400.417	26678
722148.825	4294312.01	9613	15-Nov-13	11152013-0001.SSF	481401.443	26679
722148.715	4294311.715	8913	15-Nov-13	11152013-0001.SSF	481402.345	26680
722148.731	4294311.521	9398	15-Nov-13	11152013-0001.SSF	481403.454	26681
722148.762	4294311.403	8529	15-Nov-13	11152013-0001.SSF	481404.372	26682
722148.848	4294311.249	8852	15-Nov-13	11152013-0001.SSF	481405.445	26683
722149.075	4294311.052	10103	15-Nov-13	11152013-0001.SSF	481406.358	26684
722149.434	4294310.73	9125	15-Nov-13	11152013-0001.SSF	481407.396	26685
722149.669	4294310.392	9211	15-Nov-13	11152013-0001.SSF	481408.316	26686
722149.637	4294310.105	9352	15-Nov-13	11152013-0001.SSF	481409.44	26687
722149.466	4294310.155	9658	15-Nov-13	11152013-0001.SSF	481410.348	26688
722149.301	4294310.208	9014	15-Nov-13	11152013-0001.SSF	481411.386	26689
722149.177	4294310.189	8943	15-Nov-13	11152013-0001.SSF	481412.333	26690
722149.039	4294310.468	9285	15-Nov-13	11152013-0001.SSF	481413.437	26691
722148.958	4294310.691	9791	15-Nov-13	11152013-0001.SSF	481414.396	26692
722148.967	4294310.777	8898	15-Nov-13	11152013-0001.SSF	481415.401	26693
722148.961	4294310.829	9064	15-Nov-13	11152013-0001.SSF	481416.406	26694
722148.905	4294310.943	9286	15-Nov-13	11152013-0001.SSF	481417.432	26695
722148.795	4294311.133	9611	15-Nov-13	11152013-0001.SSF	481418.331	26696
722148.608	4294311.367	9543	15-Nov-13	11152013-0001.SSF	481419.477	26697
722148.675	4294311.529	9345	15-Nov-13	11152013-0001.SSF	481420.316	26698
722148.809	4294311.7	9176	15-Nov-13	11152013-0001.SSF	481421.384	26699
722148.73	4294311.771	9494	15-Nov-13	11152013-0001.SSF	481422.333	26700
722148.604	4294311.867	7983	15-Nov-13	11152013-0001.SSF	481423.35	26701
722148.449	4294311.992	8205	15-Nov-13	11152013-0001.SSF	481424.296	26702
722148.098	4294312.127	8741	15-Nov-13	11152013-0001.SSF	481425.375	26703
722147.969	4294312.207	8545	15-Nov-13	11152013-0001.SSF	481426.33	26704
722148.102	4294312.22	9396	15-Nov-13	11152013-0001.SSF	481427.406	26705
722148.177	4294312.285	8019	15-Nov-13	11152013-0001.SSF	481428.348	26706
722148.125	4294312.471	8274	15-Nov-13	11152013-0001.SSF	481429.382	26707
722147.889	4294312.567	8968	15-Nov-13	11152013-0001.SSF	481430.364	26708
722147.659	4294312.532	8572	15-Nov-13	11152013-0001.SSF	481431.416	26709
722147.602	4294312.505	8683	15-Nov-13	11152013-0001.SSF	481432.329	26710
722147.588	4294312.454	8800	15-Nov-13	11152013-0001.SSF	481433.386	26711
722147.638	4294312.456	7990	15-Nov-13	11152013-0001.SSF	481434.31	26712

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722147.819	4294312.707	9347	15-Nov-13	11152013-0001.SSF	481435.496	26713
722147.867	4294312.825	9176	15-Nov-13	11152013-0001.SSF	481436.31	26714
722147.805	4294312.768	8894	15-Nov-13	11152013-0001.SSF	481437.439	26715
722147.753	4294312.717	9513	15-Nov-13	11152013-0001.SSF	481438.364	26716
722147.72	4294312.69	8948	15-Nov-13	11152013-0001.SSF	481439.412	26717
722147.678	4294312.659	9227	15-Nov-13	11152013-0001.SSF	481440.37	26718
722147.569	4294312.612	8366	15-Nov-13	11152013-0001.SSF	481441.378	26719
722147.469	4294312.594	8203	15-Nov-13	11152013-0001.SSF	481442.346	26720
722147.467	4294312.632	7970	15-Nov-13	11152013-0001.SSF	481443.395	26721
722147.497	4294312.641	7482	15-Nov-13	11152013-0001.SSF	481444.375	26722
722147.486	4294312.631	7780	15-Nov-13	11152013-0001.SSF	481445.459	26723
722147.595	4294312.59	9745	15-Nov-13	11152013-0001.SSF	481446.432	26724
722147.926	4294312.606	9246	15-Nov-13	11152013-0001.SSF	481447.425	26725
722148.241	4294312.826	8221	15-Nov-13	11152013-0001.SSF	481448.323	26726
722148.519	4294313.192	7425	15-Nov-13	11152013-0001.SSF	481449.455	26727
722148.59	4294313.422	7826	15-Nov-13	11152013-0001.SSF	481450.366	26728
722148.565	4294313.473	7476	15-Nov-13	11152013-0001.SSF	481451.374	26729
722148.56	4294313.263	8169	15-Nov-13	11152013-0001.SSF	481452.334	26730
722148.673	4294313.014	8402	15-Nov-13	11152013-0001.SSF	481453.355	26731
722148.684	4294312.832	8040	15-Nov-13	11152013-0001.SSF	481454.36	26732
722148.667	4294312.576	8340	15-Nov-13	11152013-0001.SSF	481455.44	26733
722148.84	4294312.152	8895	15-Nov-13	11152013-0001.SSF	481456.369	26734
722149.039	4294311.665	8703	15-Nov-13	11152013-0001.SSF	481457.51	26735
722149.21	4294311.621	9556	15-Nov-13	11152013-0001.SSF	481458.343	26736
722149.35	4294311.776	9829	15-Nov-13	11152013-0001.SSF	481459.392	26737
722149.316	4294311.878	8427	15-Nov-13	11152013-0001.SSF	481460.376	26738
722149.258	4294311.883	9697	15-Nov-13	11152013-0001.SSF	481461.461	26739
722149.217	4294311.775	9324	15-Nov-13	11152013-0001.SSF	481462.415	26740
722149.241	4294311.584	10341	15-Nov-13	11152013-0001.SSF	481463.431	26741
722149.314	4294311.292	9005	15-Nov-13	11152013-0001.SSF	481464.408	26742
722149.567	4294311.087	9511	15-Nov-13	11152013-0001.SSF	481465.468	26743
722149.834	4294310.914	8557	15-Nov-13	11152013-0001.SSF	481466.42	26744
722150.049	4294310.461	8079	15-Nov-13	11152013-0001.SSF	481467.48	26745
722150.285	4294310.192	9070	15-Nov-13	11152013-0001.SSF	481468.451	26746
722150.478	4294310.045	8597	15-Nov-13	11152013-0001.SSF	481469.469	26747
722150.495	4294309.85	8479	15-Nov-13	11152013-0001.SSF	481470.372	26748
722150.429	4294309.715	7549	15-Nov-13	11152013-0001.SSF	481471.399	26749
722004.164	4294339.984	5463	20-Dec-13	ALEX122013.SSF	508607.625	26750
722004.163	4294339.991	5517	20-Dec-13	ALEX122013.SSF	508608.68	26751
722004.159	4294340	5788	20-Dec-13	ALEX122013.SSF	508609.551	26752
722004.153	4294340.007	5656	20-Dec-13	ALEX122013.SSF	508610.677	26753
722004.151	4294340.015	5746	20-Dec-13	ALEX122013.SSF	508611.545	26754
722004.164	4294340.021	5580	20-Dec-13	ALEX122013.SSF	508612.642	26755
722004.174	4294340.025	5441	20-Dec-13	ALEX122013.SSF	508613.526	26756
722004.185	4294340.027	5730	20-Dec-13	ALEX122013.SSF	508614.642	26757
722004.189	4294340.031	4969	20-Dec-13	ALEX122013.SSF	508615.553	26758
722004.201	4294340.029	4910	20-Dec-13	ALEX122013.SSF	508616.628	26759

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722004.213	4294340.017	5072	20-Dec-13	ALEX122013.SSF	508617.569	26760
722004.192	4294339.953	4885	20-Dec-13	ALEX122013.SSF	508618.666	26761
722004.112	4294340.003	5118	20-Dec-13	ALEX122013.SSF	508619.599	26762
722004.084	4294340.206	5684	20-Dec-13	ALEX122013.SSF	508620.657	26763
722004.198	4294340.288	5574	20-Dec-13	ALEX122013.SSF	508621.584	26764
722004.327	4294340.233	5678	20-Dec-13	ALEX122013.SSF	508622.656	26765
722004.374	4294340.169	5586	20-Dec-13	ALEX122013.SSF	508623.545	26766
722004.387	4294340.111	5880	20-Dec-13	ALEX122013.SSF	508624.625	26767
722004.379	4294340.076	5625	20-Dec-13	ALEX122013.SSF	508625.521	26768
722004.359	4294340.048	5646	20-Dec-13	ALEX122013.SSF	508626.644	26769
722004.36	4294340.021	5358	20-Dec-13	ALEX122013.SSF	508627.543	26770
722004.364	4294339.98	5444	20-Dec-13	ALEX122013.SSF	508628.645	26771
722004.3	4294339.995	5274	20-Dec-13	ALEX122013.SSF	508629.544	26772
722004.145	4294340.034	5569	20-Dec-13	ALEX122013.SSF	508630.599	26773
722004.105	4294339.994	5637	20-Dec-13	ALEX122013.SSF	508631.571	26774
722004.138	4294339.954	5346	20-Dec-13	ALEX122013.SSF	508632.625	26775
722004.139	4294339.967	5392	20-Dec-13	ALEX122013.SSF	508633.589	26776
722004.149	4294339.975	5950	20-Dec-13	ALEX122013.SSF	508634.651	26777
722003.998	4294340.008	5597	20-Dec-13	ALEX122013.SSF	508635.489	26778
721976.072	4294345.948	6420	20-Dec-13	ALEX122013.SSF	508721.544	26779
721976.054	4294345.932	6412	20-Dec-13	ALEX122013.SSF	508722.611	26780
721976.047	4294345.93	6973	20-Dec-13	ALEX122013.SSF	508723.505	26781
721976.043	4294345.94	6213	20-Dec-13	ALEX122013.SSF	508724.609	26782
721976.033	4294345.941	7793	20-Dec-13	ALEX122013.SSF	508725.515	26783
721975.992	4294345.919	8038	20-Dec-13	ALEX122013.SSF	508726.598	26784
721975.914	4294345.905	7619	20-Dec-13	ALEX122013.SSF	508727.543	26785
721975.833	4294345.911	7215	20-Dec-13	ALEX122013.SSF	508728.641	26786
721975.838	4294345.919	7503	20-Dec-13	ALEX122013.SSF	508729.462	26787
721975.875	4294345.931	6135	20-Dec-13	ALEX122013.SSF	508730.524	26788
721975.893	4294345.905	6453	20-Dec-13	ALEX122013.SSF	508731.457	26789
721975.911	4294345.831	6773	20-Dec-13	ALEX122013.SSF	508732.567	26790
721975.934	4294345.802	6433	20-Dec-13	ALEX122013.SSF	508733.411	26791
721975.963	4294345.865	6738	20-Dec-13	ALEX122013.SSF	508734.5	26792
721976.085	4294345.955	6604	20-Dec-13	ALEX122013.SSF	508735.518	26793
721976.421	4294346.093	6931	20-Dec-13	ALEX122013.SSF	508736.549	26794
721976.821	4294346.24	7042	20-Dec-13	ALEX122013.SSF	508737.457	26795
721977.323	4294346.47	7310	20-Dec-13	ALEX122013.SSF	508738.594	26796
721977.706	4294346.644	7497	20-Dec-13	ALEX122013.SSF	508739.503	26797
721978.126	4294346.818	6344	20-Dec-13	ALEX122013.SSF	508740.6	26798
721978.452	4294346.941	7406	20-Dec-13	ALEX122013.SSF	508741.472	26799
721978.895	4294347.145	7581	20-Dec-13	ALEX122013.SSF	508742.565	26800
721979.246	4294347.366	8285	20-Dec-13	ALEX122013.SSF	508743.433	26801
721979.683	4294347.64	7411	20-Dec-13	ALEX122013.SSF	508744.499	26802
721980.063	4294347.894	7132	20-Dec-13	ALEX122013.SSF	508745.477	26803
721980.48	4294348.174	7213	20-Dec-13	ALEX122013.SSF	508746.578	26804
721980.802	4294348.415	7233	20-Dec-13	ALEX122013.SSF	508747.479	26805
721981.147	4294348.835	6488	20-Dec-13	ALEX122013.SSF	508748.576	26806

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721981.472	4294349.164	6752	20-Dec-13	ALEX122013.SSF	508749.534	26807
721981.897	4294349.395	6518	20-Dec-13	ALEX122013.SSF	508750.491	26808
721982.35	4294349.676	6609	20-Dec-13	ALEX122013.SSF	508751.422	26809
721982.803	4294350.102	7142	20-Dec-13	ALEX122013.SSF	508752.52	26810
721983.152	4294350.477	6751	20-Dec-13	ALEX122013.SSF	508753.482	26811
721983.509	4294350.824	6110	20-Dec-13	ALEX122013.SSF	508754.553	26812
721983.753	4294351.046	6387	20-Dec-13	ALEX122013.SSF	508755.481	26813
721983.948	4294351.231	6310	20-Dec-13	ALEX122013.SSF	508756.635	26814
721984.116	4294351.372	5801	20-Dec-13	ALEX122013.SSF	508757.494	26815
721984.39	4294351.55	5940	20-Dec-13	ALEX122013.SSF	508758.561	26816
721984.673	4294351.752	6124	20-Dec-13	ALEX122013.SSF	508759.526	26817
721985.071	4294352.071	7501	20-Dec-13	ALEX122013.SSF	508760.609	26818
721985.494	4294352.404	6795	20-Dec-13	ALEX122013.SSF	508761.519	26819
721986.106	4294352.805	6858	20-Dec-13	ALEX122013.SSF	508762.592	26820
721986.78	4294353.189	6844	20-Dec-13	ALEX122013.SSF	508763.559	26821
721987.538	4294353.643	5866	20-Dec-13	ALEX122013.SSF	508764.628	26822
721988.058	4294354.003	5835	20-Dec-13	ALEX122013.SSF	508765.436	26823
721988.595	4294354.531	5562	20-Dec-13	ALEX122013.SSF	508766.508	26824
721988.978	4294354.976	5963	20-Dec-13	ALEX122013.SSF	508767.481	26825
721989.316	4294355.349	5784	20-Dec-13	ALEX122013.SSF	508768.523	26826
721989.52	4294355.661	6126	20-Dec-13	ALEX122013.SSF	508769.485	26827
721989.835	4294356.035	5941	20-Dec-13	ALEX122013.SSF	508770.574	26828
721990.274	4294356.317	6263	20-Dec-13	ALEX122013.SSF	508771.525	26829
721990.862	4294356.58	6605	20-Dec-13	ALEX122013.SSF	508772.61	26830
721991.255	4294356.77	6061	20-Dec-13	ALEX122013.SSF	508773.465	26831
721991.692	4294357.101	5663	20-Dec-13	ALEX122013.SSF	508774.595	26832
721992.077	4294357.378	5678	20-Dec-13	ALEX122013.SSF	508775.516	26833
721992.549	4294357.676	5841	20-Dec-13	ALEX122013.SSF	508776.614	26834
721992.945	4294357.863	5835	20-Dec-13	ALEX122013.SSF	508777.516	26835
721993.354	4294358.182	5998	20-Dec-13	ALEX122013.SSF	508778.649	26836
721993.575	4294358.5	5729	20-Dec-13	ALEX122013.SSF	508779.515	26837
721993.94	4294358.914	5930	20-Dec-13	ALEX122013.SSF	508780.643	26838
721994.305	4294359.099	6080	20-Dec-13	ALEX122013.SSF	508781.526	26839
721994.806	4294359.14	5910	20-Dec-13	ALEX122013.SSF	508782.591	26840
721995.186	4294359.234	5852	20-Dec-13	ALEX122013.SSF	508783.482	26841
721995.598	4294359.491	6269	20-Dec-13	ALEX122013.SSF	508784.571	26842
721995.462	4294356.568	7752	20-Dec-13	ALEX122013.SSF	508847.725	26843
721995.462	4294356.568	6348	20-Dec-13	ALEX122013.SSF	508847.729	26844
721995.462	4294356.568	6927	20-Dec-13	ALEX122013.SSF	508847.733	26845
721995.465	4294356.581	6561	20-Dec-13	ALEX122013.SSF	508848.584	26846
721995.482	4294356.607	6410	20-Dec-13	ALEX122013.SSF	508849.375	26847
721995.5	4294356.632	5892	20-Dec-13	ALEX122013.SSF	508850.606	26848
721995.447	4294356.626	5779	20-Dec-13	ALEX122013.SSF	508851.504	26849
721995.43	4294356.747	5906	20-Dec-13	ALEX122013.SSF	508852.584	26850
721995.559	4294356.961	7284	20-Dec-13	ALEX122013.SSF	508853.463	26851
721995.7	4294357.058	7701	20-Dec-13	ALEX122013.SSF	508854.523	26852
721995.6	4294356.955	7325	20-Dec-13	ALEX122013.SSF	508855.485	26853

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721995.351	4294356.838	6931	20-Dec-13	ALEX122013.SSF	508856.59	26854
721995.262	4294356.767	6322	20-Dec-13	ALEX122013.SSF	508857.454	26855
721995.305	4294356.693	7010	20-Dec-13	ALEX122013.SSF	508858.552	26856
721995.405	4294356.657	6972	20-Dec-13	ALEX122013.SSF	508859.499	26857
721995.486	4294356.692	6723	20-Dec-13	ALEX122013.SSF	508860.556	26858
721995.487	4294356.793	6750	20-Dec-13	ALEX122013.SSF	508861.514	26859
721995.548	4294356.769	7297	20-Dec-13	ALEX122013.SSF	508862.551	26860
721995.669	4294356.635	7044	20-Dec-13	ALEX122013.SSF	508863.463	26861
721995.755	4294356.562	6771	20-Dec-13	ALEX122013.SSF	508864.51	26862
721995.756	4294356.655	6372	20-Dec-13	ALEX122013.SSF	508865.462	26863
721995.659	4294356.815	6603	20-Dec-13	ALEX122013.SSF	508866.606	26864
721995.592	4294356.845	7440	20-Dec-13	ALEX122013.SSF	508867.48	26865
721995.586	4294356.846	7950	20-Dec-13	ALEX122013.SSF	508868.508	26866
721995.597	4294356.844	7807	20-Dec-13	ALEX122013.SSF	508869.448	26867
721995.595	4294356.848	7382	20-Dec-13	ALEX122013.SSF	508870.553	26868
721995.572	4294356.848	6975	20-Dec-13	ALEX122013.SSF	508871.441	26869
721995.541	4294356.78	6453	20-Dec-13	ALEX122013.SSF	508872.587	26870
721995.529	4294356.738	6005	20-Dec-13	ALEX122013.SSF	508873.506	26871
721995.515	4294356.732	7142	20-Dec-13	ALEX122013.SSF	508874.534	26872
721995.51	4294356.729	6555	20-Dec-13	ALEX122013.SSF	508875.454	26873
721995.511	4294356.719	6618	20-Dec-13	ALEX122013.SSF	508876.515	26874
721995.512	4294356.714	7054	20-Dec-13	ALEX122013.SSF	508877.481	26875
721995.511	4294356.71	6683	20-Dec-13	ALEX122013.SSF	508878.575	26876
721995.506	4294356.707	6621	20-Dec-13	ALEX122013.SSF	508879.444	26877
721995.499	4294356.706	7535	20-Dec-13	ALEX122013.SSF	508880.546	26878
721995.5	4294356.705	6923	20-Dec-13	ALEX122013.SSF	508881.428	26879
721995.507	4294356.696	6141	20-Dec-13	ALEX122013.SSF	508882.56	26880
721995.534	4294356.687	6785	20-Dec-13	ALEX122013.SSF	508883.427	26881
721995.594	4294356.694	6406	20-Dec-13	ALEX122013.SSF	508884.495	26882
721995.554	4294356.575	6701	20-Dec-13	ALEX122013.SSF	508885.454	26883
721995.377	4294356.299	7165	20-Dec-13	ALEX122013.SSF	508886.525	26884
721995.322	4294356.231	7761	20-Dec-13	ALEX122013.SSF	508887.407	26885
721995.511	4294356.349	7160	20-Dec-13	ALEX122013.SSF	508888.503	26886
721995.996	4294356.551	6710	20-Dec-13	ALEX122013.SSF	508889.439	26887
721996.969	4294357.202	7437	20-Dec-13	ALEX122013.SSF	508890.556	26888
721997.819	4294358.02	7079	20-Dec-13	ALEX122013.SSF	508891.422	26889
721998.875	4294359.113	7410	20-Dec-13	ALEX122013.SSF	508892.554	26890
721999.452	4294359.648	6202	20-Dec-13	ALEX122013.SSF	508893.421	26891
721999.741	4294359.769	6110	20-Dec-13	ALEX122013.SSF	508894.574	26892
721999.738	4294359.621	6807	20-Dec-13	ALEX122013.SSF	508895.457	26893
721999.593	4294359.507	7552	20-Dec-13	ALEX122013.SSF	508896.594	26894
721999.395	4294359.402	8096	20-Dec-13	ALEX122013.SSF	508897.519	26895
721999.271	4294359.082	7537	20-Dec-13	ALEX122013.SSF	508898.555	26896
721999.152	4294358.763	7104	20-Dec-13	ALEX122013.SSF	508899.481	26897
721998.868	4294358.505	7026	20-Dec-13	ALEX122013.SSF	508900.548	26898
721998.551	4294358.403	6886	20-Dec-13	ALEX122013.SSF	508901.391	26899
721998.047	4294358.227	7991	20-Dec-13	ALEX122013.SSF	508902.55	26900

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721997.678	4294358.042	7428	20-Dec-13	ALEX122013.SSF	508903.362	26901
721997.103	4294357.802	7617	20-Dec-13	ALEX122013.SSF	508904.525	26902
721996.726	4294357.51	7454	20-Dec-13	ALEX122013.SSF	508905.367	26903
721996.31	4294357.039	6693	20-Dec-13	ALEX122013.SSF	508906.434	26904
721995.982	4294356.668	6653	20-Dec-13	ALEX122013.SSF	508907.362	26905
721995.607	4294356.328	6283	20-Dec-13	ALEX122013.SSF	508908.428	26906
721995.16	4294356	6671	20-Dec-13	ALEX122013.SSF	508909.38	26907
721994.511	4294355.633	6857	20-Dec-13	ALEX122013.SSF	508910.487	26908
721993.907	4294355.44	7174	20-Dec-13	ALEX122013.SSF	508911.443	26909
721993.292	4294355.187	6893	20-Dec-13	ALEX122013.SSF	508912.502	26910
721992.753	4294354.953	6763	20-Dec-13	ALEX122013.SSF	508913.441	26911
721992.225	4294354.569	6851	20-Dec-13	ALEX122013.SSF	508914.465	26912
721991.804	4294354.118	6692	20-Dec-13	ALEX122013.SSF	508915.384	26913
721991.293	4294353.663	8003	20-Dec-13	ALEX122013.SSF	508916.459	26914
721990.855	4294353.45	7190	20-Dec-13	ALEX122013.SSF	508917.38	26915
721990.228	4294353.325	6957	20-Dec-13	ALEX122013.SSF	508918.538	26916
721989.768	4294353.102	7079	20-Dec-13	ALEX122013.SSF	508919.396	26917
721989.21	4294352.756	6960	20-Dec-13	ALEX122013.SSF	508920.455	26918
721988.787	4294352.376	8190	20-Dec-13	ALEX122013.SSF	508921.408	26919
721988.371	4294351.959	7267	20-Dec-13	ALEX122013.SSF	508922.518	26920
721987.928	4294351.65	6916	20-Dec-13	ALEX122013.SSF	508923.433	26921
721987.318	4294351.302	7039	20-Dec-13	ALEX122013.SSF	508924.468	26922
721986.663	4294350.924	7309	20-Dec-13	ALEX122013.SSF	508925.465	26923
721986.139	4294350.382	6987	20-Dec-13	ALEX122013.SSF	508926.496	26924
721985.82	4294349.935	7117	20-Dec-13	ALEX122013.SSF	508927.449	26925
721985.535	4294349.517	7689	20-Dec-13	ALEX122013.SSF	508928.495	26926
721985.278	4294349.21	7712	20-Dec-13	ALEX122013.SSF	508929.449	26927
721984.832	4294348.918	7478	20-Dec-13	ALEX122013.SSF	508930.574	26928
721984.352	4294348.73	8109	20-Dec-13	ALEX122013.SSF	508931.42	26929
721983.63	4294348.511	7097	20-Dec-13	ALEX122013.SSF	508932.561	26930
721983.104	4294348.307	7504	20-Dec-13	ALEX122013.SSF	508933.462	26931
721982.487	4294348.035	6766	20-Dec-13	ALEX122013.SSF	508934.516	26932
721982.002	4294347.669	6371	20-Dec-13	ALEX122013.SSF	508935.474	26933
721981.615	4294347.214	7503	20-Dec-13	ALEX122013.SSF	508936.543	26934
721981.277	4294346.863	6615	20-Dec-13	ALEX122013.SSF	508937.471	26935
721980.785	4294346.539	7293	20-Dec-13	ALEX122013.SSF	508938.543	26936
721980.33	4294346.293	7223	20-Dec-13	ALEX122013.SSF	508939.475	26937
721979.849	4294346.005	7446	20-Dec-13	ALEX122013.SSF	508940.474	26938
721979.346	4294345.633	7111	20-Dec-13	ALEX122013.SSF	508941.41	26939
721978.726	4294345.166	8527	20-Dec-13	ALEX122013.SSF	508942.475	26940
721978.222	4294344.905	9242	20-Dec-13	ALEX122013.SSF	508943.427	26941
721977.759	4294344.76	8160	20-Dec-13	ALEX122013.SSF	508944.504	26942
721977.482	4294344.736	7440	20-Dec-13	ALEX122013.SSF	508945.389	26943
721977.439	4294344.703	8400	20-Dec-13	ALEX122013.SSF	508946.48	26944
721977.526	4294344.624	7920	20-Dec-13	ALEX122013.SSF	508947.48	26945
721977.392	4294344.677	7650	20-Dec-13	ALEX122013.SSF	508948.481	26946
721977.308	4294344.825	8032	20-Dec-13	ALEX122013.SSF	508949.481	26947

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721977.599	4294344.787	8248	20-Dec-13	ALEX122013.SSF	508950.542	26948
721977.937	4294344.255	7342	20-Dec-13	ALEX122013.SSF	508951.507	26949
721978.299	4294343.267	7625	20-Dec-13	ALEX122013.SSF	508952.518	26950
721978.689	4294342.569	7606	20-Dec-13	ALEX122013.SSF	508953.519	26951
721978.866	4294342.418	8711	20-Dec-13	ALEX122013.SSF	508954.561	26952
721978.828	4294342.489	8268	20-Dec-13	ALEX122013.SSF	508955.45	26953
721978.728	4294342.61	8037	20-Dec-13	ALEX122013.SSF	508956.527	26954
721978.428	4294342.812	6749	20-Dec-13	ALEX122013.SSF	508957.427	26955
721977.786	4294343.143	8647	20-Dec-13	ALEX122013.SSF	508958.516	26956
721977.555	4294343.231	7921	20-Dec-13	ALEX122013.SSF	508959.379	26957
721977.663	4294343.183	9090	20-Dec-13	ALEX122013.SSF	508960.588	26958
721977.712	4294343.231	8212	20-Dec-13	ALEX122013.SSF	508961.382	26959
721977.726	4294343.41	7363	20-Dec-13	ALEX122013.SSF	508962.532	26960
721977.691	4294343.584	7391	20-Dec-13	ALEX122013.SSF	508963.412	26961
721977.813	4294343.753	7517	20-Dec-13	ALEX122013.SSF	508964.505	26962
721978.118	4294343.94	7609	20-Dec-13	ALEX122013.SSF	508965.461	26963
721978.556	4294344.157	6942	20-Dec-13	ALEX122013.SSF	508966.445	26964
721979.054	4294344.368	8395	20-Dec-13	ALEX122013.SSF	508967.364	26965
721979.649	4294344.676	8579	20-Dec-13	ALEX122013.SSF	508968.504	26966
721980.135	4294344.913	7844	20-Dec-13	ALEX122013.SSF	508969.359	26967
721980.925	4294345.297	8051	20-Dec-13	ALEX122013.SSF	508970.568	26968
721981.373	4294345.546	7862	20-Dec-13	ALEX122013.SSF	508971.405	26969
721981.766	4294345.96	8235	20-Dec-13	ALEX122013.SSF	508972.514	26970
721981.988	4294346.324	8718	20-Dec-13	ALEX122013.SSF	508973.464	26971
721982.258	4294346.664	7909	20-Dec-13	ALEX122013.SSF	508974.537	26972
721982.562	4294346.864	8037	20-Dec-13	ALEX122013.SSF	508975.386	26973
721983.006	4294347.122	8699	20-Dec-13	ALEX122013.SSF	508976.466	26974
721983.286	4294347.386	7935	20-Dec-13	ALEX122013.SSF	508977.474	26975
721983.554	4294347.622	7653	20-Dec-13	ALEX122013.SSF	508978.464	26976
721983.946	4294347.835	7613	20-Dec-13	ALEX122013.SSF	508979.42	26977
721984.462	4294348.055	6913	20-Dec-13	ALEX122013.SSF	508980.502	26978
721984.835	4294348.312	6738	20-Dec-13	ALEX122013.SSF	508981.388	26979
721985.198	4294348.607	7624	20-Dec-13	ALEX122013.SSF	508982.44	26980
721985.5	4294348.876	8656	20-Dec-13	ALEX122013.SSF	508983.389	26981
721985.832	4294349.233	8344	20-Dec-13	ALEX122013.SSF	508984.485	26982
721986.172	4294349.491	7216	20-Dec-13	ALEX122013.SSF	508985.379	26983
721986.625	4294349.698	8434	20-Dec-13	ALEX122013.SSF	508986.479	26984
721986.996	4294349.812	7658	20-Dec-13	ALEX122013.SSF	508987.373	26985
721987.473	4294350.009	8184	20-Dec-13	ALEX122013.SSF	508988.521	26986
721987.843	4294350.2	8256	20-Dec-13	ALEX122013.SSF	508989.388	26987
721988.272	4294350.528	8814	20-Dec-13	ALEX122013.SSF	508990.539	26988
721988.562	4294350.765	8653	20-Dec-13	ALEX122013.SSF	508991.406	26989
721988.939	4294351.063	7563	20-Dec-13	ALEX122013.SSF	508992.485	26990
721989.247	4294351.299	8190	20-Dec-13	ALEX122013.SSF	508993.414	26991
721989.588	4294351.631	8827	20-Dec-13	ALEX122013.SSF	508994.478	26992
721989.855	4294351.951	9527	20-Dec-13	ALEX122013.SSF	508995.407	26993
721990.118	4294352.3	9341	20-Dec-13	ALEX122013.SSF	508996.428	26994

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721990.581	4294352.791	7499	20-Dec-13	ALEX122013.SSF	508998.437	26996
721990.97	4294352.944	8444	20-Dec-13	ALEX122013.SSF	508999.422	26997
721991.403	4294353.159	7931	20-Dec-13	ALEX122013.SSF	509000.477	26998
721991.828	4294353.407	7622	20-Dec-13	ALEX122013.SSF	509001.436	26999
721992.328	4294353.713	7905	20-Dec-13	ALEX122013.SSF	509002.521	27000
721992.79	4294353.935	8426	20-Dec-13	ALEX122013.SSF	509003.453	27001
721993.358	4294354.178	6966	20-Dec-13	ALEX122013.SSF	509004.67	27002
721993.627	4294354.322	7831	20-Dec-13	ALEX122013.SSF	509005.353	27003
721994.02	4294354.565	8497	20-Dec-13	ALEX122013.SSF	509006.434	27004
721994.361	4294354.808	8304	20-Dec-13	ALEX122013.SSF	509007.424	27005
721994.653	4294355.017	7926	20-Dec-13	ALEX122013.SSF	509008.44	27006
721994.862	4294355.253	7201	20-Dec-13	ALEX122013.SSF	509009.337	27007
721995.141	4294355.51	8130	20-Dec-13	ALEX122013.SSF	509010.455	27008
721995.426	4294355.688	7312	20-Dec-13	ALEX122013.SSF	509011.37	27009
721995.703	4294355.867	9298	20-Dec-13	ALEX122013.SSF	509012.475	27010
721995.884	4294355.936	9134	20-Dec-13	ALEX122013.SSF	509013.37	27011
721996.061	4294356.023	8793	20-Dec-13	ALEX122013.SSF	509014.481	27012
721996.143	4294356.101	8888	20-Dec-13	ALEX122013.SSF	509015.393	27013
721996.225	4294356.106	7682	20-Dec-13	ALEX122013.SSF	509016.477	27014
721996.339	4294356.165	8910	20-Dec-13	ALEX122013.SSF	509017.361	27015
721996.711	4294356.33	8347	20-Dec-13	ALEX122013.SSF	509018.447	27016
721997.271	4294356.502	7847	20-Dec-13	ALEX122013.SSF	509019.445	27017
721997.75	4294356.726	6881	20-Dec-13	ALEX122013.SSF	509020.361	27018
721998.132	4294356.91	7750	20-Dec-13	ALEX122013.SSF	509021.376	27019
721998.456	4294357.179	8507	20-Dec-13	ALEX122013.SSF	509022.418	27020
721998.689	4294357.502	8576	20-Dec-13	ALEX122013.SSF	509023.332	27021
721999.005	4294357.85	7784	20-Dec-13	ALEX122013.SSF	509024.365	27022
721999.434	4294358.091	7736	20-Dec-13	ALEX122013.SSF	509025.336	27023
721999.963	4294358.314	7604	20-Dec-13	ALEX122013.SSF	509026.481	27024
722000.345	4294358.494	8531	20-Dec-13	ALEX122013.SSF	509027.412	27025
722000.696	4294358.679	7682	20-Dec-13	ALEX122013.SSF	509028.443	27026
722000.884	4294358.809	6780	20-Dec-13	ALEX122013.SSF	509029.409	27027
722000.967	4294358.763	7335	20-Dec-13	ALEX122013.SSF	509030.447	27028
722000.959	4294358.828	7567	20-Dec-13	ALEX122013.SSF	509031.411	27029
722000.752	4294359.024	7246	20-Dec-13	ALEX122013.SSF	509032.437	27030
722000.69	4294358.954	7181	20-Dec-13	ALEX122013.SSF	509033.391	27031
722001.139	4294358.62	7255	20-Dec-13	ALEX122013.SSF	509034.509	27032
722001.481	4294358.435	7304	20-Dec-13	ALEX122013.SSF	509035.447	27033
722001.439	4294358.571	8246	20-Dec-13	ALEX122013.SSF	509036.483	27034
722001.489	4294358.665	8901	20-Dec-13	ALEX122013.SSF	509037.405	27035
722001.869	4294358.61	7805	20-Dec-13	ALEX122013.SSF	509038.464	27036
722001.981	4294358.628	8641	20-Dec-13	ALEX122013.SSF	509039.422	27037
722001.766	4294358.581	6870	20-Dec-13	ALEX122013.SSF	509040.475	27038
722001.502	4294358.411	7387	20-Dec-13	ALEX122013.SSF	509041.398	27039
722001.173	4294358.197	7247	20-Dec-13	ALEX122013.SSF	509042.44	27040
722000.854	4294358.007	8111	20-Dec-13	ALEX122013.SSF	509043.354	27041

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722000.197	4294357.548	7669	20-Dec-13	ALEX122013.SSF	509045.383	27043
722000.291	4294357.408	8487	20-Dec-13	ALEX122013.SSF	509046.439	27044
722000.39	4294357.341	7882	20-Dec-13	ALEX122013.SSF	509047.353	27045
722000.284	4294357.19	8990	20-Dec-13	ALEX122013.SSF	509048.416	27046
722000.089	4294357.122	7737	20-Dec-13	ALEX122013.SSF	509049.326	27047
722000.01	4294357.146	7664	20-Dec-13	ALEX122013.SSF	509050.479	27048
722000.028	4294357.053	7586	20-Dec-13	ALEX122013.SSF	509051.456	27049
721999.991	4294356.902	7536	20-Dec-13	ALEX122013.SSF	509052.466	27050
721999.843	4294356.788	7314	20-Dec-13	ALEX122013.SSF	509053.472	27051
721999.499	4294356.675	8368	20-Dec-13	ALEX122013.SSF	509054.517	27052
721999.152	4294356.542	7252	20-Dec-13	ALEX122013.SSF	509055.414	27053
721998.767	4294356.409	8233	20-Dec-13	ALEX122013.SSF	509056.5	27054
721998.456	4294356.317	8328	20-Dec-13	ALEX122013.SSF	509057.366	27055
721998.149	4294356.011	8652	20-Dec-13	ALEX122013.SSF	509058.45	27056
721997.925	4294355.66	7803	20-Dec-13	ALEX122013.SSF	509059.41	27057
721997.626	4294355.32	8100	20-Dec-13	ALEX122013.SSF	509060.519	27058
721997.335	4294355.091	9195	20-Dec-13	ALEX122013.SSF	509061.378	27059
721996.885	4294354.844	7878	20-Dec-13	ALEX122013.SSF	509062.472	27060
721996.48	4294354.69	7789	20-Dec-13	ALEX122013.SSF	509063.447	27061
721996.027	4294354.498	8007	20-Dec-13	ALEX122013.SSF	509064.456	27062
721995.581	4294354.252	8962	20-Dec-13	ALEX122013.SSF	509065.385	27063
721995.097	4294353.981	8390	20-Dec-13	ALEX122013.SSF	509066.435	27064
721994.703	4294353.756	9087	20-Dec-13	ALEX122013.SSF	509067.4	27065
721994.324	4294353.561	7762	20-Dec-13	ALEX122013.SSF	509068.428	27066
721994.047	4294353.336	7400	20-Dec-13	ALEX122013.SSF	509069.399	27067
721993.819	4294353.06	8390	20-Dec-13	ALEX122013.SSF	509070.487	27068
721993.649	4294352.8	8487	20-Dec-13	ALEX122013.SSF	509071.367	27069
721993.397	4294352.482	8452	20-Dec-13	ALEX122013.SSF	509072.481	27070
721993.167	4294352.26	8203	20-Dec-13	ALEX122013.SSF	509073.433	27071
721992.898	4294352.02	9460	20-Dec-13	ALEX122013.SSF	509074.488	27072
721992.615	4294351.762	7825	20-Dec-13	ALEX122013.SSF	509075.386	27073
721992.335	4294351.454	8196	20-Dec-13	ALEX122013.SSF	509076.466	27074
721992.193	4294351.181	7509	20-Dec-13	ALEX122013.SSF	509077.435	27075
721991.956	4294350.973	7547	20-Dec-13	ALEX122013.SSF	509078.483	27076
721991.685	4294350.872	8336	20-Dec-13	ALEX122013.SSF	509079.415	27077
721991.365	4294350.772	9044	20-Dec-13	ALEX122013.SSF	509080.457	27078
721990.997	4294350.6	8171	20-Dec-13	ALEX122013.SSF	509081.397	27079
721990.545	4294350.356	8192	20-Dec-13	ALEX122013.SSF	509082.452	27080
721990.118	4294350.14	7418	20-Dec-13	ALEX122013.SSF	509083.371	27081
721989.591	4294349.927	7704	20-Dec-13	ALEX122013.SSF	509084.515	27082
721989.235	4294349.793	8136	20-Dec-13	ALEX122013.SSF	509085.37	27083
721988.945	4294349.489	8994	20-Dec-13	ALEX122013.SSF	509086.5	27084
721988.854	4294349.25	9568	20-Dec-13	ALEX122013.SSF	509087.369	27085
721988.822	4294349.069	8752	20-Dec-13	ALEX122013.SSF	509088.507	27086
721988.889	4294349.095	8998	20-Dec-13	ALEX122013.SSF	509089.341	27087
721989.058	4294349.145	8399	20-Dec-13	ALEX122013.SSF	509090.452	27088

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721989.089	4294349.159	8250	20-Dec-13	ALEX122013.SSF	509091.387	27089
721989.012	4294349.176	8242	20-Dec-13	ALEX122013.SSF	509092.414	27090
721988.995	4294349.092	7970	20-Dec-13	ALEX122013.SSF	509093.381	27091
721988.919	4294349.024	8442	20-Dec-13	ALEX122013.SSF	509094.41	27092
721988.762	4294349.008	8470	20-Dec-13	ALEX122013.SSF	509095.347	27093
721988.589	4294348.949	9137	20-Dec-13	ALEX122013.SSF	509096.386	27094
721988.407	4294348.915	8134	20-Dec-13	ALEX122013.SSF	509097.323	27095
721988.21	4294348.802	9413	20-Dec-13	ALEX122013.SSF	509098.412	27096
721988.072	4294348.618	9313	20-Dec-13	ALEX122013.SSF	509099.311	27097
721987.972	4294348.365	9828	20-Dec-13	ALEX122013.SSF	509100.358	27098
721987.859	4294348.166	8217	20-Dec-13	ALEX122013.SSF	509101.305	27099
721987.684	4294347.986	8534	20-Dec-13	ALEX122013.SSF	509102.45	27100
721987.483	4294347.93	8853	20-Dec-13	ALEX122013.SSF	509103.301	27101
721987.22	4294347.765	8993	20-Dec-13	ALEX122013.SSF	509104.444	27102
721987.05	4294347.625	8968	20-Dec-13	ALEX122013.SSF	509105.394	27103
721986.859	4294347.522	8962	20-Dec-13	ALEX122013.SSF	509106.407	27104
721986.69	4294347.471	8681	20-Dec-13	ALEX122013.SSF	509107.418	27105
721986.578	4294347.412	9455	20-Dec-13	ALEX122013.SSF	509108.443	27106
721986.523	4294347.282	8333	20-Dec-13	ALEX122013.SSF	509109.429	27107
721986.383	4294347.112	8053	20-Dec-13	ALEX122013.SSF	509110.371	27108
721986.25	4294346.919	7593	20-Dec-13	ALEX122013.SSF	509111.376	27109
721986.085	4294346.833	8078	20-Dec-13	ALEX122013.SSF	509112.396	27110
721985.821	4294346.798	8709	20-Dec-13	ALEX122013.SSF	509113.38	27111
721985.443	4294346.783	9107	20-Dec-13	ALEX122013.SSF	509114.431	27112
721985.104	4294346.715	9386	20-Dec-13	ALEX122013.SSF	509115.393	27113
721984.871	4294346.662	10566	20-Dec-13	ALEX122013.SSF	509116.391	27114
721984.769	4294346.572	9361	20-Dec-13	ALEX122013.SSF	509117.344	27115
721984.837	4294346.562	8730	20-Dec-13	ALEX122013.SSF	509118.397	27116
721984.935	4294346.583	9892	20-Dec-13	ALEX122013.SSF	509119.285	27117
721984.858	4294346.563	10363	20-Dec-13	ALEX122013.SSF	509120.476	27118
721984.681	4294346.528	9791	20-Dec-13	ALEX122013.SSF	509121.321	27119
721984.414	4294346.375	10697	20-Dec-13	ALEX122013.SSF	509122.432	27120
721984.235	4294346.179	9964	20-Dec-13	ALEX122013.SSF	509123.36	27121
721984.089	4294346.042	8911	20-Dec-13	ALEX122013.SSF	509124.414	27122
721983.935	4294345.878	8947	20-Dec-13	ALEX122013.SSF	509125.375	27123
721983.638	4294345.622	7937	20-Dec-13	ALEX122013.SSF	509126.451	27124
721983.35	4294345.337	7744	20-Dec-13	ALEX122013.SSF	509127.351	27125
721983.079	4294344.966	8086	20-Dec-13	ALEX122013.SSF	509128.427	27126
721982.829	4294344.657	7481	20-Dec-13	ALEX122013.SSF	509129.392	27127
721982.482	4294344.367	7660	20-Dec-13	ALEX122013.SSF	509130.497	27128
721982.21	4294344.202	8155	20-Dec-13	ALEX122013.SSF	509131.428	27129
721981.917	4294344.031	7858	20-Dec-13	ALEX122013.SSF	509132.5	27130
721981.643	4294343.839	8324	20-Dec-13	ALEX122013.SSF	509133.363	27131
721981.271	4294343.59	8381	20-Dec-13	ALEX122013.SSF	509134.444	27132
721980.9	4294343.437	7555	20-Dec-13	ALEX122013.SSF	509135.377	27133
721980.476	4294343.331	7888	20-Dec-13	ALEX122013.SSF	509136.403	27134
721980.105	4294343.265	7942	20-Dec-13	ALEX122013.SSF	509137.357	27135

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721979.707	4294343.133	7925	20-Dec-13	ALEX122013.SSF	509138.398	27136
721979.324	4294343.038	7711	20-Dec-13	ALEX122013.SSF	509139.381	27137
721978.972	4294342.894	7627	20-Dec-13	ALEX122013.SSF	509140.477	27138
721978.711	4294342.941	8387	20-Dec-13	ALEX122013.SSF	509141.441	27139
721978.628	4294343.033	8006	20-Dec-13	ALEX122013.SSF	509142.513	27140
721978.591	4294343.001	8661	20-Dec-13	ALEX122013.SSF	509143.434	27141
721978.297	4294342.948	8705	20-Dec-13	ALEX122013.SSF	509144.478	27142
721978.09	4294342.816	9556	20-Dec-13	ALEX122013.SSF	509145.315	27143
721978.061	4294342.391	10309	20-Dec-13	ALEX122013.SSF	509146.406	27144
721978.262	4294342.018	9177	20-Dec-13	ALEX122013.SSF	509147.306	27145
721978.78	4294341.757	9464	20-Dec-13	ALEX122013.SSF	509148.416	27146
721978.927	4294341.722	8366	20-Dec-13	ALEX122013.SSF	509149.379	27147
721978.593	4294341.783	9561	20-Dec-13	ALEX122013.SSF	509150.478	27148
721978.296	4294341.824	8930	20-Dec-13	ALEX122013.SSF	509151.381	27149
721978.35	4294341.906	9222	20-Dec-13	ALEX122013.SSF	509152.45	27150
721978.539	4294341.911	9115	20-Dec-13	ALEX122013.SSF	509153.394	27151
721978.679	4294341.861	7979	20-Dec-13	ALEX122013.SSF	509154.398	27152
721978.892	4294341.918	9044	20-Dec-13	ALEX122013.SSF	509155.402	27153
721979.161	4294342.078	9551	20-Dec-13	ALEX122013.SSF	509156.474	27154
721979.42	4294342.209	9227	20-Dec-13	ALEX122013.SSF	509157.424	27155
721979.743	4294342.358	8306	20-Dec-13	ALEX122013.SSF	509158.49	27156
721980.009	4294342.514	8173	20-Dec-13	ALEX122013.SSF	509159.365	27157
721980.283	4294342.736	9721	20-Dec-13	ALEX122013.SSF	509160.404	27158
721980.536	4294342.873	9600	20-Dec-13	ALEX122013.SSF	509161.376	27159
721980.691	4294343.001	10230	20-Dec-13	ALEX122013.SSF	509162.388	27160
721980.786	4294343.048	9697	20-Dec-13	ALEX122013.SSF	509163.363	27161
721980.976	4294343.065	8484	20-Dec-13	ALEX122013.SSF	509164.427	27162
721981.172	4294343.168	9021	20-Dec-13	ALEX122013.SSF	509165.382	27163
721981.438	4294343.205	9425	20-Dec-13	ALEX122013.SSF	509166.436	27164
721981.62	4294343.219	9166	20-Dec-13	ALEX122013.SSF	509167.362	27165
721981.735	4294343.355	8741	20-Dec-13	ALEX122013.SSF	509168.433	27166
721981.886	4294343.413	9715	20-Dec-13	ALEX122013.SSF	509169.357	27167
721981.997	4294343.397	9629	20-Dec-13	ALEX122013.SSF	509170.365	27168
721982.014	4294343.433	9127	20-Dec-13	ALEX122013.SSF	509171.365	27169
721982.136	4294343.546	8701	20-Dec-13	ALEX122013.SSF	509172.442	27170
721982.248	4294343.706	10905	20-Dec-13	ALEX122013.SSF	509173.355	27171
721982.391	4294343.777	9896	20-Dec-13	ALEX122013.SSF	509174.424	27172
721982.526	4294343.749	8984	20-Dec-13	ALEX122013.SSF	509175.365	27173
721982.554	4294343.884	8216	20-Dec-13	ALEX122013.SSF	509176.445	27174
721982.608	4294344.059	9134	20-Dec-13	ALEX122013.SSF	509177.397	27175
721982.747	4294344.197	9813	20-Dec-13	ALEX122013.SSF	509178.35	27176
721982.885	4294344.348	7103	20-Dec-13	ALEX122013.SSF	509179.324	27177
721983.035	4294344.465	8285	20-Dec-13	ALEX122013.SSF	509180.367	27178
721983.131	4294344.603	8341	20-Dec-13	ALEX122013.SSF	509181.324	27179
721983.334	4294344.681	8865	20-Dec-13	ALEX122013.SSF	509182.416	27180
721983.546	4294344.691	9086	20-Dec-13	ALEX122013.SSF	509183.332	27181
721983.706	4294344.731	9711	20-Dec-13	ALEX122013.SSF	509184.418	27182

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721983.826	4294344.759	10018	20-Dec-13	ALEX122013.SSF	509185.368	27183
721983.857	4294344.895	10754	20-Dec-13	ALEX122013.SSF	509186.35	27184
721983.853	4294345.068	9438	20-Dec-13	ALEX122013.SSF	509187.343	27185
721983.968	4294345.076	11359	20-Dec-13	ALEX122013.SSF	509188.348	27186
721984.118	4294344.996	10279	20-Dec-13	ALEX122013.SSF	509189.333	27187
721984.187	4294344.937	9350	20-Dec-13	ALEX122013.SSF	509190.469	27188
721984.195	4294344.915	8997	20-Dec-13	ALEX122013.SSF	509191.412	27189
721984.135	4294344.955	9389	20-Dec-13	ALEX122013.SSF	509192.418	27190
721984.033	4294345.03	9877	20-Dec-13	ALEX122013.SSF	509193.387	27191
721983.943	4294345.048	11289	20-Dec-13	ALEX122013.SSF	509194.477	27192
721983.94	4294345.017	12962	20-Dec-13	ALEX122013.SSF	509195.369	27193
721984	4294345.009	11760	20-Dec-13	ALEX122013.SSF	509196.381	27194
721984.061	4294345.032	10500	20-Dec-13	ALEX122013.SSF	509197.277	27195
721984.12	4294345.045	10845	20-Dec-13	ALEX122013.SSF	509198.395	27196
721984.114	4294345.047	11351	20-Dec-13	ALEX122013.SSF	509199.35	27197
721984.066	4294345.052	10878	20-Dec-13	ALEX122013.SSF	509200.387	27198
721984.066	4294345.031	10129	20-Dec-13	ALEX122013.SSF	509201.383	27199
721984.132	4294344.937	10932	20-Dec-13	ALEX122013.SSF	509202.445	27200
721984.138	4294344.851	11433	20-Dec-13	ALEX122013.SSF	509203.424	27201
721984.131	4294344.734	9188	20-Dec-13	ALEX122013.SSF	509204.394	27202
721984.063	4294344.621	10037	20-Dec-13	ALEX122013.SSF	509205.317	27203
721983.915	4294344.69	8659	20-Dec-13	ALEX122013.SSF	509206.462	27204
721983.934	4294344.883	10054	20-Dec-13	ALEX122013.SSF	509207.397	27205
721984.079	4294345.016	10643	20-Dec-13	ALEX122013.SSF	509208.447	27206
721984.167	4294345.041	11601	20-Dec-13	ALEX122013.SSF	509209.371	27207
721984.188	4294345.054	11930	20-Dec-13	ALEX122013.SSF	509210.423	27208
721984.303	4294345.063	10602	20-Dec-13	ALEX122013.SSF	509211.38	27209
721984.313	4294345.167	11620	20-Dec-13	ALEX122013.SSF	509212.431	27210
721984.267	4294345.291	12385	20-Dec-13	ALEX122013.SSF	509213.375	27211
721984.37	4294345.305	12396	20-Dec-13	ALEX122013.SSF	509214.357	27212
721984.498	4294345.253	12279	20-Dec-13	ALEX122013.SSF	509215.362	27213
721984.472	4294345.354	10509	20-Dec-13	ALEX122013.SSF	509216.395	27214
721984.413	4294345.537	12527	20-Dec-13	ALEX122013.SSF	509217.426	27215
721984.485	4294345.589	12341	20-Dec-13	ALEX122013.SSF	509218.487	27216
721984.604	4294345.581	12115	20-Dec-13	ALEX122013.SSF	509219.36	27217
721984.68	4294345.702	10109	20-Dec-13	ALEX122013.SSF	509220.365	27218
721984.689	4294345.845	11527	20-Dec-13	ALEX122013.SSF	509221.298	27219
721984.834	4294345.824	12751	20-Dec-13	ALEX122013.SSF	509222.339	27220
721984.983	4294345.765	9727	20-Dec-13	ALEX122013.SSF	509223.343	27221
721984.987	4294345.924	10052	20-Dec-13	ALEX122013.SSF	509224.422	27222
721985.071	4294346.027	11273	20-Dec-13	ALEX122013.SSF	509225.364	27223
721985.311	4294345.988	9118	20-Dec-13	ALEX122013.SSF	509226.408	27224
721985.489	4294346.054	7559	20-Dec-13	ALEX122013.SSF	509227.377	27225
721985.592	4294346.227	8910	20-Dec-13	ALEX122013.SSF	509228.419	27226
721985.679	4294346.394	7357	20-Dec-13	ALEX122013.SSF	509229.363	27227
721985.975	4294346.554	8349	20-Dec-13	ALEX122013.SSF	509230.452	27228
721986.271	4294346.659	8927	20-Dec-13	ALEX122013.SSF	509231.391	27229

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721986.52	4294346.734	8681	20-Dec-13	ALEX122013.SSF	509232.481	27230
721986.75	4294346.869	8620	20-Dec-13	ALEX122013.SSF	509233.391	27231
721987.05	4294347.056	8905	20-Dec-13	ALEX122013.SSF	509234.416	27232
721987.263	4294347.198	8016	20-Dec-13	ALEX122013.SSF	509235.389	27233
721987.37	4294347.324	7374	20-Dec-13	ALEX122013.SSF	509236.38	27234
721987.525	4294347.441	8383	20-Dec-13	ALEX122013.SSF	509237.41	27235
721987.722	4294347.623	9986	20-Dec-13	ALEX122013.SSF	509238.448	27236
721987.933	4294347.851	8946	20-Dec-13	ALEX122013.SSF	509239.425	27237
721988.16	4294348.091	8266	20-Dec-13	ALEX122013.SSF	509240.362	27238
721988.42	4294348.279	8306	20-Dec-13	ALEX122013.SSF	509241.4	27239
721988.604	4294348.408	8916	20-Dec-13	ALEX122013.SSF	509242.356	27240
721988.848	4294348.442	9279	20-Dec-13	ALEX122013.SSF	509243.382	27241
721989.123	4294348.411	9489	20-Dec-13	ALEX122013.SSF	509244.437	27242
721989.363	4294348.43	7862	20-Dec-13	ALEX122013.SSF	509245.366	27243
721989.658	4294348.489	8385	20-Dec-13	ALEX122013.SSF	509246.362	27244
721989.979	4294348.585	7436	20-Dec-13	ALEX122013.SSF	509247.416	27245
721990.238	4294348.754	8639	20-Dec-13	ALEX122013.SSF	509248.422	27246
721990.423	4294348.92	6870	20-Dec-13	ALEX122013.SSF	509249.375	27247
721990.621	4294349.134	7357	20-Dec-13	ALEX122013.SSF	509250.462	27248
721990.776	4294349.265	7749	20-Dec-13	ALEX122013.SSF	509251.426	27249
721990.921	4294349.388	7757	20-Dec-13	ALEX122013.SSF	509252.471	27250
721991.017	4294349.536	8198	20-Dec-13	ALEX122013.SSF	509253.408	27251
721991.108	4294349.729	8689	20-Dec-13	ALEX122013.SSF	509254.471	27252
721991.239	4294349.905	9102	20-Dec-13	ALEX122013.SSF	509255.365	27253
721991.508	4294350.127	8695	20-Dec-13	ALEX122013.SSF	509256.418	27254
721991.768	4294350.315	8264	20-Dec-13	ALEX122013.SSF	509257.36	27255
721992.107	4294350.403	8306	20-Dec-13	ALEX122013.SSF	509258.405	27256
721992.378	4294350.458	7746	20-Dec-13	ALEX122013.SSF	509259.359	27257
721992.707	4294350.554	7906	20-Dec-13	ALEX122013.SSF	509260.455	27258
721992.967	4294350.751	7226	20-Dec-13	ALEX122013.SSF	509261.393	27259
721993.179	4294350.925	8136	20-Dec-13	ALEX122013.SSF	509262.452	27260
721993.35	4294350.998	8154	20-Dec-13	ALEX122013.SSF	509263.369	27261
721993.502	4294351.045	8398	20-Dec-13	ALEX122013.SSF	509264.405	27262
721993.612	4294351.1	8549	20-Dec-13	ALEX122013.SSF	509265.358	27263
721993.76	4294351.254	9307	20-Dec-13	ALEX122013.SSF	509266.384	27264
721993.985	4294351.425	7936	20-Dec-13	ALEX122013.SSF	509267.385	27265
721994.153	4294351.6	8464	20-Dec-13	ALEX122013.SSF	509268.435	27266
721994.279	4294351.79	7906	20-Dec-13	ALEX122013.SSF	509269.346	27267
721994.472	4294352.077	6776	20-Dec-13	ALEX122013.SSF	509270.4	27268
721994.729	4294352.38	7694	20-Dec-13	ALEX122013.SSF	509271.354	27269
721994.999	4294352.702	8103	20-Dec-13	ALEX122013.SSF	509272.31	27270
721995.275	4294352.959	7935	20-Dec-13	ALEX122013.SSF	509273.315	27271
721995.56	4294353.186	8433	20-Dec-13	ALEX122013.SSF	509274.357	27272
721995.846	4294353.336	7598	20-Dec-13	ALEX122013.SSF	509275.365	27273
721996.109	4294353.479	7419	20-Dec-13	ALEX122013.SSF	509276.423	27274
721996.323	4294353.604	8035	20-Dec-13	ALEX122013.SSF	509277.387	27275
721996.568	4294353.768	8818	20-Dec-13	ALEX122013.SSF	509278.388	27276

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721996.86	4294353.925	8414	20-Dec-13	ALEX122013.SSF	509279.426	27277
721997.076	4294354.105	7923	20-Dec-13	ALEX122013.SSF	509280.359	27278
721997.337	4294354.306	7770	20-Dec-13	ALEX122013.SSF	509281.353	27279
721997.668	4294354.51	7342	20-Dec-13	ALEX122013.SSF	509282.403	27280
721997.954	4294354.688	7205	20-Dec-13	ALEX122013.SSF	509283.364	27281
721998.176	4294354.864	7381	20-Dec-13	ALEX122013.SSF	509284.414	27282
721998.33	4294355.02	8415	20-Dec-13	ALEX122013.SSF	509285.36	27283
721998.551	4294355.217	8163	20-Dec-13	ALEX122013.SSF	509286.379	27284
721998.784	4294355.354	7891	20-Dec-13	ALEX122013.SSF	509287.352	27285
721998.991	4294355.468	7792	20-Dec-13	ALEX122013.SSF	509288.383	27286
721999.239	4294355.616	8908	20-Dec-13	ALEX122013.SSF	509289.372	27287
721999.554	4294355.778	7627	20-Dec-13	ALEX122013.SSF	509290.459	27288
721999.827	4294355.936	7606	20-Dec-13	ALEX122013.SSF	509291.387	27289
722000.053	4294356.133	7541	20-Dec-13	ALEX122013.SSF	509292.391	27290
722000.257	4294356.319	7945	20-Dec-13	ALEX122013.SSF	509293.366	27291
722000.502	4294356.506	8136	20-Dec-13	ALEX122013.SSF	509294.398	27292
722000.777	4294356.686	7914	20-Dec-13	ALEX122013.SSF	509295.35	27293
722001.032	4294356.908	7798	20-Dec-13	ALEX122013.SSF	509296.382	27294
722001.251	4294357.142	7739	20-Dec-13	ALEX122013.SSF	509297.429	27295
722001.454	4294357.332	7875	20-Dec-13	ALEX122013.SSF	509298.371	27296
722001.68	4294357.486	7128	20-Dec-13	ALEX122013.SSF	509299.403	27297
722001.803	4294357.629	7032	20-Dec-13	ALEX122013.SSF	509300.347	27298
722001.941	4294357.673	8268	20-Dec-13	ALEX122013.SSF	509301.26	27299
722002.196	4294357.547	7347	20-Dec-13	ALEX122013.SSF	509302.325	27300
722002.384	4294357.516	7386	20-Dec-13	ALEX122013.SSF	509303.312	27301
722002.441	4294357.4	8206	20-Dec-13	ALEX122013.SSF	509304.328	27302
722002.569	4294357.034	8891	20-Dec-13	ALEX122013.SSF	509305.353	27303
722003.029	4294356.545	7683	20-Dec-13	ALEX122013.SSF	509306.356	27304
722003.634	4294356.055	7681	20-Dec-13	ALEX122013.SSF	509307.353	27305
722003.938	4294355.839	7830	20-Dec-13	ALEX122013.SSF	509308.393	27306
722003.827	4294356.017	8257	20-Dec-13	ALEX122013.SSF	509309.319	27307
722003.515	4294356.323	8124	20-Dec-13	ALEX122013.SSF	509310.365	27308
722003.54	4294356.403	7521	20-Dec-13	ALEX122013.SSF	509311.276	27309
722003.8	4294356.487	7910	20-Dec-13	ALEX122013.SSF	509312.379	27310
722003.864	4294356.573	7347	20-Dec-13	ALEX122013.SSF	509313.304	27311
722003.722	4294356.626	7027	20-Dec-13	ALEX122013.SSF	509314.38	27312
722003.366	4294356.593	6826	20-Dec-13	ALEX122013.SSF	509315.32	27313
722003.012	4294356.411	7226	20-Dec-13	ALEX122013.SSF	509316.345	27314
722002.873	4294356.141	7536	20-Dec-13	ALEX122013.SSF	509317.299	27315
722002.67	4294355.915	8814	20-Dec-13	ALEX122013.SSF	509318.355	27316
722002.553	4294355.796	8173	20-Dec-13	ALEX122013.SSF	509319.327	27317
722002.579	4294355.753	7383	20-Dec-13	ALEX122013.SSF	509320.293	27318
722002.593	4294355.751	9525	20-Dec-13	ALEX122013.SSF	509321.366	27319
722002.579	4294355.739	9341	20-Dec-13	ALEX122013.SSF	509322.365	27320
722002.563	4294355.758	9415	20-Dec-13	ALEX122013.SSF	509323.344	27321
722002.5	4294355.786	8354	20-Dec-13	ALEX122013.SSF	509324.298	27322
722002.351	4294355.713	7758	20-Dec-13	ALEX122013.SSF	509325.311	27323

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722002.157	4294355.642	7819	20-Dec-13	ALEX122013.SSF	509326.358	27324
722002.067	4294355.613	8109	20-Dec-13	ALEX122013.SSF	509327.313	27325
722002.04	4294355.457	8558	20-Dec-13	ALEX122013.SSF	509328.383	27326
722001.863	4294355.273	8349	20-Dec-13	ALEX122013.SSF	509329.342	27327
722001.686	4294355.035	8867	20-Dec-13	ALEX122013.SSF	509330.383	27328
722001.538	4294354.855	8936	20-Dec-13	ALEX122013.SSF	509331.271	27329
722001.278	4294354.585	6854	20-Dec-13	ALEX122013.SSF	509332.341	27330
722001.022	4294354.41	8613	20-Dec-13	ALEX122013.SSF	509333.289	27331
722000.805	4294354.21	8753	20-Dec-13	ALEX122013.SSF	509334.339	27332
722000.642	4294353.971	7828	20-Dec-13	ALEX122013.SSF	509335.368	27333
722000.442	4294353.73	8227	20-Dec-13	ALEX122013.SSF	509336.352	27334
722000.23	4294353.493	8956	20-Dec-13	ALEX122013.SSF	509337.383	27335
722000.084	4294353.241	8419	20-Dec-13	ALEX122013.SSF	509338.374	27336
721999.952	4294353.026	7564	20-Dec-13	ALEX122013.SSF	509339.332	27337
721999.78	4294352.863	7921	20-Dec-13	ALEX122013.SSF	509340.36	27338
721999.599	4294352.826	7140	20-Dec-13	ALEX122013.SSF	509341.39	27339
721999.416	4294352.729	8025	20-Dec-13	ALEX122013.SSF	509342.334	27340
721999.244	4294352.573	7016	20-Dec-13	ALEX122013.SSF	509343.363	27341
721999.063	4294352.405	7214	20-Dec-13	ALEX122013.SSF	509344.399	27342
721998.911	4294352.241	6723	20-Dec-13	ALEX122013.SSF	509345.361	27343
721998.729	4294352.11	7440	20-Dec-13	ALEX122013.SSF	509346.398	27344
721998.491	4294351.993	8010	20-Dec-13	ALEX122013.SSF	509347.354	27345
721998.15	4294351.79	8602	20-Dec-13	ALEX122013.SSF	509348.414	27346
721997.831	4294351.574	8300	20-Dec-13	ALEX122013.SSF	509349.373	27347
721997.57	4294351.342	7715	20-Dec-13	ALEX122013.SSF	509350.377	27348
721997.398	4294351.215	7988	20-Dec-13	ALEX122013.SSF	509351.321	27349
721997.246	4294351.083	9257	20-Dec-13	ALEX122013.SSF	509352.352	27350
721997.121	4294350.989	8344	20-Dec-13	ALEX122013.SSF	509353.245	27351
721996.902	4294350.873	7966	20-Dec-13	ALEX122013.SSF	509354.287	27352
721996.663	4294350.781	7241	20-Dec-13	ALEX122013.SSF	509355.356	27353
721996.403	4294350.628	8110	20-Dec-13	ALEX122013.SSF	509356.327	27354
721996.103	4294350.499	8657	20-Dec-13	ALEX122013.SSF	509357.32	27355
721995.748	4294350.317	8584	20-Dec-13	ALEX122013.SSF	509358.358	27356
721995.483	4294350.198	8656	20-Dec-13	ALEX122013.SSF	509359.306	27357
721995.212	4294350.085	7924	20-Dec-13	ALEX122013.SSF	509360.359	27358
721994.95	4294349.954	7771	20-Dec-13	ALEX122013.SSF	509361.315	27359
721994.655	4294349.747	8662	20-Dec-13	ALEX122013.SSF	509362.35	27360
721994.481	4294349.672	8105	20-Dec-13	ALEX122013.SSF	509363.291	27361
721994.35	4294349.51	8326	20-Dec-13	ALEX122013.SSF	509364.327	27362
721994.169	4294349.264	8861	20-Dec-13	ALEX122013.SSF	509365.353	27363
721993.98	4294349.007	9145	20-Dec-13	ALEX122013.SSF	509366.326	27364
721993.777	4294348.787	9096	20-Dec-13	ALEX122013.SSF	509367.358	27365
721993.528	4294348.624	8844	20-Dec-13	ALEX122013.SSF	509368.36	27366
721993.291	4294348.507	8571	20-Dec-13	ALEX122013.SSF	509369.316	27367
721993.09	4294348.298	8532	20-Dec-13	ALEX122013.SSF	509370.355	27368
721992.936	4294348.075	8913	20-Dec-13	ALEX122013.SSF	509371.296	27369
721992.683	4294347.859	8228	20-Dec-13	ALEX122013.SSF	509372.357	27370

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721992.4	4294347.763	8417	20-Dec-13	ALEX122013.SSF	509373.308	27371
721992.148	4294347.584	7804	20-Dec-13	ALEX122013.SSF	509374.334	27372
721991.936	4294347.43	7651	20-Dec-13	ALEX122013.SSF	509375.356	27373
721991.714	4294347.282	8542	20-Dec-13	ALEX122013.SSF	509376.309	27374
721991.407	4294347.184	8615	20-Dec-13	ALEX122013.SSF	509377.348	27375
721991.105	4294347.121	8904	20-Dec-13	ALEX122013.SSF	509378.299	27376
721990.861	4294347.13	8046	20-Dec-13	ALEX122013.SSF	509379.272	27377
721990.535	4294347.077	8131	20-Dec-13	ALEX122013.SSF	509380.351	27378
721990.247	4294347.005	8512	20-Dec-13	ALEX122013.SSF	509381.388	27379
721990.096	4294346.973	8818	20-Dec-13	ALEX122013.SSF	509382.412	27380
721990.102	4294346.841	7844	20-Dec-13	ALEX122013.SSF	509383.379	27381
721990.089	4294346.639	8231	20-Dec-13	ALEX122013.SSF	509384.403	27382
721990.039	4294346.433	8837	20-Dec-13	ALEX122013.SSF	509385.349	27383
721989.912	4294346.226	8479	20-Dec-13	ALEX122013.SSF	509386.392	27384
721989.78	4294346.099	8449	20-Dec-13	ALEX122013.SSF	509387.337	27385
721989.647	4294345.994	7572	20-Dec-13	ALEX122013.SSF	509388.339	27386
721989.511	4294345.815	8106	20-Dec-13	ALEX122013.SSF	509389.328	27387
721989.275	4294345.632	8153	20-Dec-13	ALEX122013.SSF	509390.368	27388
721989.004	4294345.516	8068	20-Dec-13	ALEX122013.SSF	509391.406	27389
721988.783	4294345.401	7417	20-Dec-13	ALEX122013.SSF	509392.349	27390
721988.536	4294345.239	8124	20-Dec-13	ALEX122013.SSF	509393.399	27391
721988.319	4294345.076	8361	20-Dec-13	ALEX122013.SSF	509394.337	27392
721988.059	4294344.865	9500	20-Dec-13	ALEX122013.SSF	509395.359	27393
721987.758	4294344.738	7985	20-Dec-13	ALEX122013.SSF	509396.32	27394
721987.47	4294344.619	8116	20-Dec-13	ALEX122013.SSF	509397.362	27395
721987.174	4294344.595	8539	20-Dec-13	ALEX122013.SSF	509398.354	27396
721986.944	4294344.567	7714	20-Dec-13	ALEX122013.SSF	509399.314	27397
721986.878	4294344.452	8498	20-Dec-13	ALEX122013.SSF	509400.356	27398
721986.785	4294344.422	8514	20-Dec-13	ALEX122013.SSF	509401.382	27399
721986.757	4294344.418	7888	20-Dec-13	ALEX122013.SSF	509402.348	27400
721986.772	4294344.409	8932	20-Dec-13	ALEX122013.SSF	509403.313	27401
721986.742	4294344.411	7993	20-Dec-13	ALEX122013.SSF	509404.294	27402
721986.714	4294344.364	8568	20-Dec-13	ALEX122013.SSF	509405.351	27403
721986.652	4294344.285	10002	20-Dec-13	ALEX122013.SSF	509406.339	27404
721986.433	4294344.26	8980	20-Dec-13	ALEX122013.SSF	509407.336	27405
721986.155	4294344.237	9115	20-Dec-13	ALEX122013.SSF	509408.373	27406
721985.938	4294344.241	8998	20-Dec-13	ALEX122013.SSF	509409.369	27407
721985.79	4294344.144	9149	20-Dec-13	ALEX122013.SSF	509410.378	27408
721985.655	4294343.986	8677	20-Dec-13	ALEX122013.SSF	509411.366	27409
721985.372	4294343.915	9129	20-Dec-13	ALEX122013.SSF	509412.382	27410
721985.088	4294343.833	8072	20-Dec-13	ALEX122013.SSF	509413.392	27411
721984.911	4294343.638	8678	20-Dec-13	ALEX122013.SSF	509414.406	27412
721984.733	4294343.445	8499	20-Dec-13	ALEX122013.SSF	509415.376	27413
721984.533	4294343.268	8545	20-Dec-13	ALEX122013.SSF	509416.43	27414
721984.39	4294343.035	9336	20-Dec-13	ALEX122013.SSF	509417.395	27415
721984.181	4294342.727	9354	20-Dec-13	ALEX122013.SSF	509418.447	27416
721983.974	4294342.424	9748	20-Dec-13	ALEX122013.SSF	509419.425	27417

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721983.784	4294342.174	10057	20-Dec-13	ALEX122013.SSF	509420.361	27418
721983.586	4294341.953	9714	20-Dec-13	ALEX122013.SSF	509421.334	27419
721983.315	4294341.892	9898	20-Dec-13	ALEX122013.SSF	509422.367	27420
721983.114	4294341.839	10994	20-Dec-13	ALEX122013.SSF	509423.359	27421
721983.055	4294341.748	9708	20-Dec-13	ALEX122013.SSF	509424.42	27422
721982.919	4294341.638	9717	20-Dec-13	ALEX122013.SSF	509425.304	27423
721982.7	4294341.445	8759	20-Dec-13	ALEX122013.SSF	509426.433	27424
721982.496	4294341.417	9630	20-Dec-13	ALEX122013.SSF	509427.337	27425
721982.26	4294341.389	8197	20-Dec-13	ALEX122013.SSF	509428.373	27426
721982.082	4294341.313	8679	20-Dec-13	ALEX122013.SSF	509429.295	27427
721981.855	4294341.157	8469	20-Dec-13	ALEX122013.SSF	509430.371	27428
721981.755	4294340.879	9947	20-Dec-13	ALEX122013.SSF	509431.268	27429
721981.591	4294340.573	8336	20-Dec-13	ALEX122013.SSF	509432.292	27430
721981.404	4294340.355	8174	20-Dec-13	ALEX122013.SSF	509433.291	27431
721981.308	4294340.268	8883	20-Dec-13	ALEX122013.SSF	509434.273	27432
721981.074	4294340.266	9840	20-Dec-13	ALEX122013.SSF	509435.291	27433
721980.832	4294340.296	8910	20-Dec-13	ALEX122013.SSF	509436.27	27434
721980.803	4294340.269	8407	20-Dec-13	ALEX122013.SSF	509437.295	27435
721980.782	4294340.211	8072	20-Dec-13	ALEX122013.SSF	509438.283	27436
721980.526	4294340.332	7718	20-Dec-13	ALEX122013.SSF	509439.297	27437
721980.415	4294340.414	8469	20-Dec-13	ALEX122013.SSF	509440.368	27438
721980.626	4294340.167	10157	20-Dec-13	ALEX122013.SSF	509441.239	27439
721980.813	4294339.608	8239	20-Dec-13	ALEX122013.SSF	509442.279	27440
721981.038	4294339.109	8269	20-Dec-13	ALEX122013.SSF	509443.336	27441
721981.339	4294338.907	8487	20-Dec-13	ALEX122013.SSF	509444.353	27442
721981.434	4294338.884	8932	20-Dec-13	ALEX122013.SSF	509445.352	27443
721981.373	4294338.98	9073	20-Dec-13	ALEX122013.SSF	509446.35	27444
721981.026	4294339.203	9198	20-Dec-13	ALEX122013.SSF	509447.366	27445
721980.585	4294339.349	8059	20-Dec-13	ALEX122013.SSF	509448.42	27446
721980.465	4294339.38	8554	20-Dec-13	ALEX122013.SSF	509449.386	27447
721980.526	4294339.347	8798	20-Dec-13	ALEX122013.SSF	509450.385	27448
721980.539	4294339.321	8889	20-Dec-13	ALEX122013.SSF	509451.347	27449
721980.602	4294339.34	8972	20-Dec-13	ALEX122013.SSF	509452.394	27450
721980.728	4294339.342	8693	20-Dec-13	ALEX122013.SSF	509453.373	27451
721980.954	4294339.363	8113	20-Dec-13	ALEX122013.SSF	509454.361	27452
721981.194	4294339.438	10728	20-Dec-13	ALEX122013.SSF	509455.284	27453
721981.396	4294339.473	8892	20-Dec-13	ALEX122013.SSF	509456.334	27454
721981.55	4294339.426	8853	20-Dec-13	ALEX122013.SSF	509457.313	27455
721981.642	4294339.512	9083	20-Dec-13	ALEX122013.SSF	509458.302	27456
721981.748	4294339.673	8720	20-Dec-13	ALEX122013.SSF	509459.348	27457
721981.876	4294339.804	7880	20-Dec-13	ALEX122013.SSF	509460.4	27458
721982.067	4294339.935	8990	20-Dec-13	ALEX122013.SSF	509461.305	27459
721982.343	4294340.092	7767	20-Dec-13	ALEX122013.SSF	509462.399	27460
721982.559	4294340.202	7762	20-Dec-13	ALEX122013.SSF	509463.38	27461
721982.711	4294340.36	9050	20-Dec-13	ALEX122013.SSF	509464.312	27462
721982.879	4294340.539	8622	20-Dec-13	ALEX122013.SSF	509465.312	27463
721983.052	4294340.757	9295	20-Dec-13	ALEX122013.SSF	509466.395	27464

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721983.553	4294341.281	8351	20-Dec-13	ALEX122013.SSF	509468.305	27466
721983.846	4294341.529	8717	20-Dec-13	ALEX122013.SSF	509469.327	27467
721983.975	4294341.75	8779	20-Dec-13	ALEX122013.SSF	509470.345	27468
721984.1	4294341.966	9424	20-Dec-13	ALEX122013.SSF	509471.358	27469
721984.331	4294342.236	8746	20-Dec-13	ALEX122013.SSF	509472.391	27470
721984.602	4294342.484	8966	20-Dec-13	ALEX122013.SSF	509473.386	27471
721984.812	4294342.678	8871	20-Dec-13	ALEX122013.SSF	509474.309	27472
721985.094	4294342.818	8788	20-Dec-13	ALEX122013.SSF	509475.366	27473
721985.416	4294343.005	7927	20-Dec-13	ALEX122013.SSF	509476.415	27474
721985.628	4294343.154	8491	20-Dec-13	ALEX122013.SSF	509477.364	27475
721985.84	4294343.264	9052	20-Dec-13	ALEX122013.SSF	509478.397	27476
721986.079	4294343.33	9103	20-Dec-13	ALEX122013.SSF	509479.349	27477
721986.382	4294343.41	8696	20-Dec-13	ALEX122013.SSF	509480.279	27478
721986.714	4294343.496	8864	20-Dec-13	ALEX122013.SSF	509481.351	27479
721986.91	4294343.601	9146	20-Dec-13	ALEX122013.SSF	509482.301	27480
721987.089	4294343.727	9426	20-Dec-13	ALEX122013.SSF	509483.285	27481
721987.277	4294343.945	8836	20-Dec-13	ALEX122013.SSF	509484.297	27482
721987.374	4294344.117	9589	20-Dec-13	ALEX122013.SSF	509485.178	27483
721987.536	4294344.246	8127	20-Dec-13	ALEX122013.SSF	509486.343	27484
721987.7	4294344.327	8542	20-Dec-13	ALEX122013.SSF	509487.279	27485
721987.934	4294344.43	8525	20-Dec-13	ALEX122013.SSF	509488.271	27486
721988.108	4294344.523	8071	20-Dec-13	ALEX122013.SSF	509489.318	27487
721988.301	4294344.506	8047	20-Dec-13	ALEX122013.SSF	509490.359	27488
721988.501	4294344.509	8372	20-Dec-13	ALEX122013.SSF	509491.339	27489
721988.719	4294344.627	8813	20-Dec-13	ALEX122013.SSF	509492.344	27490
721988.896	4294344.769	7543	20-Dec-13	ALEX122013.SSF	509493.331	27491
721989.068	4294344.941	8786	20-Dec-13	ALEX122013.SSF	509494.347	27492
721989.242	4294345.124	8196	20-Dec-13	ALEX122013.SSF	509495.281	27493
721989.463	4294345.279	8469	20-Dec-13	ALEX122013.SSF	509496.302	27494
721989.643	4294345.424	8687	20-Dec-13	ALEX122013.SSF	509497.278	27495
721989.826	4294345.543	8201	20-Dec-13	ALEX122013.SSF	509498.31	27496
721989.932	4294345.667	7930	20-Dec-13	ALEX122013.SSF	509499.287	27497
721990.096	4294345.799	8642	20-Dec-13	ALEX122013.SSF	509500.359	27498
721990.254	4294345.99	8130	20-Dec-13	ALEX122013.SSF	509501.351	27499
721990.41	4294346.235	8782	20-Dec-13	ALEX122013.SSF	509502.363	27500
721990.51	4294346.494	8465	20-Dec-13	ALEX122013.SSF	509503.308	27501
721990.685	4294346.754	8986	20-Dec-13	ALEX122013.SSF	509504.346	27502
721990.957	4294347.007	8126	20-Dec-13	ALEX122013.SSF	509505.284	27503
721991.338	4294347.205	7851	20-Dec-13	ALEX122013.SSF	509506.325	27504
721991.63	4294347.424	7693	20-Dec-13	ALEX122013.SSF	509507.31	27505
721991.927	4294347.563	7923	20-Dec-13	ALEX122013.SSF	509508.32	27506
721992.202	4294347.719	8520	20-Dec-13	ALEX122013.SSF	509509.292	27507
721992.574	4294347.883	8670	20-Dec-13	ALEX122013.SSF	509510.352	27508
721992.889	4294348.052	8407	20-Dec-13	ALEX122013.SSF	509511.337	27509
721993.163	4294348.212	8192	20-Dec-13	ALEX122013.SSF	509512.353	27510
721993.434	4294348.327	7688	20-Dec-13	ALEX122013.SSF	509513.312	27511

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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721993.963	4294348.5	8468	20-Dec-13	ALEX122013.SSF	509515.312	27513
721994.113	4294348.587	8447	20-Dec-13	ALEX122013.SSF	509516.314	27514
721994.306	4294348.765	7541	20-Dec-13	ALEX122013.SSF	509517.291	27515
721994.536	4294349.011	7615	20-Dec-13	ALEX122013.SSF	509518.364	27516
721994.735	4294349.22	7784	20-Dec-13	ALEX122013.SSF	509519.281	27517
721994.865	4294349.381	8246	20-Dec-13	ALEX122013.SSF	509520.36	27518
721994.989	4294349.538	6981	20-Dec-13	ALEX122013.SSF	509521.269	27519
721995.195	4294349.677	7655	20-Dec-13	ALEX122013.SSF	509522.25	27520
721995.416	4294349.838	8183	20-Dec-13	ALEX122013.SSF	509523.311	27521
721995.579	4294349.976	7596	20-Dec-13	ALEX122013.SSF	509524.359	27522
721995.758	4294350.142	6939	20-Dec-13	ALEX122013.SSF	509525.348	27523
721995.997	4294350.264	8304	20-Dec-13	ALEX122013.SSF	509526.401	27524
721996.224	4294350.41	8436	20-Dec-13	ALEX122013.SSF	509527.312	27525
721996.432	4294350.548	7599	20-Dec-13	ALEX122013.SSF	509528.307	27526
721996.659	4294350.733	7599	20-Dec-13	ALEX122013.SSF	509529.31	27527
721996.906	4294350.937	7210	20-Dec-13	ALEX122013.SSF	509530.288	27528
721997.179	4294351.173	8072	20-Dec-13	ALEX122013.SSF	509531.316	27529
721997.413	4294351.366	8858	20-Dec-13	ALEX122013.SSF	509532.353	27530
721997.63	4294351.546	8184	20-Dec-13	ALEX122013.SSF	509533.281	27531
721997.85	4294351.748	8796	20-Dec-13	ALEX122013.SSF	509534.393	27532
721997.988	4294351.911	7719	20-Dec-13	ALEX122013.SSF	509535.267	27533
721998.174	4294352.079	8229	20-Dec-13	ALEX122013.SSF	509536.342	27534
721998.379	4294352.207	7817	20-Dec-13	ALEX122013.SSF	509537.315	27535
721998.643	4294352.345	8374	20-Dec-13	ALEX122013.SSF	509538.371	27536
721998.857	4294352.445	7733	20-Dec-13	ALEX122013.SSF	509539.279	27537
721999.23	4294352.528	7873	20-Dec-13	ALEX122013.SSF	509540.392	27538
721999.506	4294352.641	7068	20-Dec-13	ALEX122013.SSF	509541.255	27539
721999.819	4294352.875	8817	20-Dec-13	ALEX122013.SSF	509542.336	27540
722000.176	4294353.128	8264	20-Dec-13	ALEX122013.SSF	509543.316	27541
722000.583	4294353.316	7556	20-Dec-13	ALEX122013.SSF	509544.313	27542
722000.904	4294353.414	7889	20-Dec-13	ALEX122013.SSF	509545.277	27543
722001.201	4294353.575	7762	20-Dec-13	ALEX122013.SSF	509546.316	27544
722001.439	4294353.831	8090	20-Dec-13	ALEX122013.SSF	509547.276	27545
722001.764	4294354.119	8502	20-Dec-13	ALEX122013.SSF	509548.319	27546
722002.067	4294354.214	8185	20-Dec-13	ALEX122013.SSF	509549.266	27547
722002.353	4294354.319	7746	20-Dec-13	ALEX122013.SSF	509550.389	27548
722002.623	4294354.436	8686	20-Dec-13	ALEX122013.SSF	509551.363	27549
722002.868	4294354.641	8231	20-Dec-13	ALEX122013.SSF	509552.41	27550
722002.996	4294354.869	8298	20-Dec-13	ALEX122013.SSF	509553.367	27551
722003.16	4294355.133	9214	20-Dec-13	ALEX122013.SSF	509554.423	27552
722003.298	4294355.27	7883	20-Dec-13	ALEX122013.SSF	509555.306	27553
722003.391	4294355.385	8151	20-Dec-13	ALEX122013.SSF	509556.422	27554
722003.446	4294355.457	7797	20-Dec-13	ALEX122013.SSF	509557.286	27555
722003.608	4294355.472	8339	20-Dec-13	ALEX122013.SSF	509558.404	27556
722003.623	4294355.555	7065	20-Dec-13	ALEX122013.SSF	509559.342	27557
722003.621	4294355.653	7856	20-Dec-13	ALEX122013.SSF	509560.349	27558

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722003.726	4294355.478	8414	20-Dec-13	ALEX122013.SSF	509561.299	27559
722003.926	4294355.096	8703	20-Dec-13	ALEX122013.SSF	509562.335	27560
722004.322	4294354.696	8415	20-Dec-13	ALEX122013.SSF	509563.326	27561
722004.77	4294354.322	7053	20-Dec-13	ALEX122013.SSF	509564.333	27562
722004.831	4294354.156	7367	20-Dec-13	ALEX122013.SSF	509565.261	27563
722004.501	4294354.245	7821	20-Dec-13	ALEX122013.SSF	509566.291	27564
722004.242	4294354.288	8225	20-Dec-13	ALEX122013.SSF	509567.232	27565
722004.174	4294354.036	8626	20-Dec-13	ALEX122013.SSF	509568.338	27566
722004.151	4294353.904	8366	20-Dec-13	ALEX122013.SSF	509569.282	27567
722004.157	4294353.833	9081	20-Dec-13	ALEX122013.SSF	509570.402	27568
722004.022	4294353.71	8360	20-Dec-13	ALEX122013.SSF	509571.331	27569
722003.68	4294353.598	8180	20-Dec-13	ALEX122013.SSF	509572.319	27570
722003.341	4294353.526	7955	20-Dec-13	ALEX122013.SSF	509573.276	27571
722002.987	4294353.462	8138	20-Dec-13	ALEX122013.SSF	509574.419	27572
722002.736	4294353.345	8154	20-Dec-13	ALEX122013.SSF	509575.362	27573
722002.481	4294353.136	7468	20-Dec-13	ALEX122013.SSF	509576.42	27574
722002.28	4294352.854	6727	20-Dec-13	ALEX122013.SSF	509577.369	27575
722002.133	4294352.576	7501	20-Dec-13	ALEX122013.SSF	509578.421	27576
722002.04	4294352.362	7725	20-Dec-13	ALEX122013.SSF	509579.288	27577
722001.888	4294352.206	8801	20-Dec-13	ALEX122013.SSF	509580.272	27578
722001.603	4294351.997	7600	20-Dec-13	ALEX122013.SSF	509581.321	27579
722001.326	4294351.77	7240	20-Dec-13	ALEX122013.SSF	509582.338	27580
722001.044	4294351.526	7840	20-Dec-13	ALEX122013.SSF	509583.307	27581
722000.651	4294351.337	7570	20-Dec-13	ALEX122013.SSF	509584.386	27582
722000.38	4294351.158	8282	20-Dec-13	ALEX122013.SSF	509585.277	27583
722000.117	4294350.978	7560	20-Dec-13	ALEX122013.SSF	509586.4	27584
721999.916	4294350.827	9000	20-Dec-13	ALEX122013.SSF	509587.281	27585
721999.738	4294350.683	8220	20-Dec-13	ALEX122013.SSF	509588.386	27586
721999.633	4294350.667	7575	20-Dec-13	ALEX122013.SSF	509589.358	27587
721999.652	4294350.656	7653	20-Dec-13	ALEX122013.SSF	509590.36	27588
721999.629	4294350.618	6953	20-Dec-13	ALEX122013.SSF	509591.208	27589
721999.468	4294350.411	8008	20-Dec-13	ALEX122013.SSF	509592.283	27590
721999.258	4294350.21	7882	20-Dec-13	ALEX122013.SSF	509593.225	27591
721999.103	4294349.962	8030	20-Dec-13	ALEX122013.SSF	509594.221	27592
721998.895	4294349.727	8067	20-Dec-13	ALEX122013.SSF	509595.264	27593
721998.631	4294349.458	7687	20-Dec-13	ALEX122013.SSF	509596.29	27594
721998.401	4294349.282	8581	20-Dec-13	ALEX122013.SSF	509597.25	27595
721998.167	4294349.088	8565	20-Dec-13	ALEX122013.SSF	509598.304	27596
721997.921	4294348.92	7271	20-Dec-13	ALEX122013.SSF	509599.268	27597
721997.648	4294348.707	6888	20-Dec-13	ALEX122013.SSF	509600.361	27598
721997.338	4294348.581	6672	20-Dec-13	ALEX122013.SSF	509601.314	27599
721997.012	4294348.379	7008	20-Dec-13	ALEX122013.SSF	509602.396	27600
721996.769	4294348.201	6852	20-Dec-13	ALEX122013.SSF	509603.291	27601
721996.431	4294347.955	7623	20-Dec-13	ALEX122013.SSF	509604.421	27602
721996.149	4294347.788	7231	20-Dec-13	ALEX122013.SSF	509605.293	27603
721995.754	4294347.557	8598	20-Dec-13	ALEX122013.SSF	509606.328	27604
721995.392	4294347.312	8389	20-Dec-13	ALEX122013.SSF	509607.321	27605

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721995.104	4294346.981	8757	20-Dec-13	ALEX122013.SSF	509608.392	27606
721994.798	4294346.674	8909	20-Dec-13	ALEX122013.SSF	509609.325	27607
721994.392	4294346.289	7447	20-Dec-13	ALEX122013.SSF	509610.354	27608
721994.073	4294345.993	8403	20-Dec-13	ALEX122013.SSF	509611.236	27609
721993.715	4294345.614	8640	20-Dec-13	ALEX122013.SSF	509612.4	27610
721993.484	4294345.383	8010	20-Dec-13	ALEX122013.SSF	509613.259	27611
721993.236	4294345.206	8692	20-Dec-13	ALEX122013.SSF	509614.383	27612
721992.992	4294345.128	9463	20-Dec-13	ALEX122013.SSF	509615.289	27613
721992.612	4294345.057	9356	20-Dec-13	ALEX122013.SSF	509616.296	27614
721992.295	4294344.985	8039	20-Dec-13	ALEX122013.SSF	509617.213	27615
721992.069	4294344.776	9239	20-Dec-13	ALEX122013.SSF	509618.289	27616
721991.925	4294344.547	8820	20-Dec-13	ALEX122013.SSF	509619.256	27617
721991.737	4294344.282	6945	20-Dec-13	ALEX122013.SSF	509620.367	27618
721991.498	4294344.057	7106	20-Dec-13	ALEX122013.SSF	509621.266	27619
721991.042	4294343.661	7866	20-Dec-13	ALEX122013.SSF	509622.38	27620
721990.713	4294343.407	8086	20-Dec-13	ALEX122013.SSF	509623.19	27621
721990.37	4294343.141	7961	20-Dec-13	ALEX122013.SSF	509624.359	27622
721990.072	4294343.047	8530	20-Dec-13	ALEX122013.SSF	509625.282	27623
721989.73	4294342.885	8132	20-Dec-13	ALEX122013.SSF	509626.343	27624
721989.452	4294342.762	8003	20-Dec-13	ALEX122013.SSF	509627.344	27625
721989.104	4294342.679	8060	20-Dec-13	ALEX122013.SSF	509628.382	27626
721988.817	4294342.659	7595	20-Dec-13	ALEX122013.SSF	509629.286	27627
721988.48	4294342.646	7628	20-Dec-13	ALEX122013.SSF	509630.358	27628
721988.213	4294342.582	7937	20-Dec-13	ALEX122013.SSF	509631.281	27629
721987.865	4294342.398	8824	20-Dec-13	ALEX122013.SSF	509632.347	27630
721987.565	4294342.191	7516	20-Dec-13	ALEX122013.SSF	509633.288	27631
721987.241	4294341.989	8659	20-Dec-13	ALEX122013.SSF	509634.356	27632
721986.984	4294341.844	8734	20-Dec-13	ALEX122013.SSF	509635.162	27633
721986.595	4294341.64	7973	20-Dec-13	ALEX122013.SSF	509636.291	27634
721986.305	4294341.544	8713	20-Dec-13	ALEX122013.SSF	509637.191	27635
721985.989	4294341.415	8658	20-Dec-13	ALEX122013.SSF	509638.325	27636
721985.75	4294341.281	8794	20-Dec-13	ALEX122013.SSF	509639.175	27637
721985.34	4294341.113	9278	20-Dec-13	ALEX122013.SSF	509640.317	27638
721985.001	4294341.01	7899	20-Dec-13	ALEX122013.SSF	509641.271	27639
721984.639	4294340.835	8485	20-Dec-13	ALEX122013.SSF	509642.323	27640
721984.397	4294340.659	8301	20-Dec-13	ALEX122013.SSF	509643.177	27641
721984.175	4294340.42	9905	20-Dec-13	ALEX122013.SSF	509644.307	27642
721984.004	4294340.332	7816	20-Dec-13	ALEX122013.SSF	509645.285	27643
721983.746	4294340.204	8464	20-Dec-13	ALEX122013.SSF	509646.2841	27644
721983.411	4294340.065	8596	20-Dec-13	ALEX122013.SSF	509647.2469	27645
721983.12	4294339.869	8599	20-Dec-13	ALEX122013.SSF	509648.271	27646
721982.957	4294339.801	7699	20-Dec-13	ALEX122013.SSF	509649.168	27647
721982.791	4294339.613	8225	20-Dec-13	ALEX122013.SSF	509650.421	27648
721982.629	4294339.48	8056	20-Dec-13	ALEX122013.SSF	509651.313	27649
721982.373	4294339.305	7204	20-Dec-13	ALEX122013.SSF	509652.3929	27650
721982.257	4294339.09	8341	20-Dec-13	ALEX122013.SSF	509653.272	27651
721982.129	4294338.767	8295	20-Dec-13	ALEX122013.SSF	509654.3571	27652

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721982.013	4294338.535	9093	20-Dec-13	ALEX122013.SSF	509655.3521	27653
721982.016	4294338.409	8513	20-Dec-13	ALEX122013.SSF	509656.278	27654
721981.99	4294338.393	7948	20-Dec-13	ALEX122013.SSF	509657.264	27655
721981.697	4294338.561	7957	20-Dec-13	ALEX122013.SSF	509658.318	27656
721981.665	4294338.61	7719	20-Dec-13	ALEX122013.SSF	509659.254	27657
721981.742	4294338.212	8829	20-Dec-13	ALEX122013.SSF	509660.335	27658
721981.788	4294337.767	8327	20-Dec-13	ALEX122013.SSF	509661.278	27659
721982.197	4294337.231	9191	20-Dec-13	ALEX122013.SSF	509662.338	27660
721982.808	4294336.877	7188	20-Dec-13	ALEX122013.SSF	509663.3409	27661
721983.261	4294336.797	7347	20-Dec-13	ALEX122013.SSF	509664.369	27662
721983.295	4294336.821	8736	20-Dec-13	ALEX122013.SSF	509665.307	27663
721983.131	4294336.944	8034	20-Dec-13	ALEX122013.SSF	509666.4091	27664
721982.875	4294337.133	6898	20-Dec-13	ALEX122013.SSF	509667.304	27665
721982.583	4294337.253	7634	20-Dec-13	ALEX122013.SSF	509668.418	27666
721982.372	4294337.117	8388	20-Dec-13	ALEX122013.SSF	509669.256	27667
721982.266	4294336.851	7677	20-Dec-13	ALEX122013.SSF	509670.344	27668
721982.319	4294336.763	8309	20-Dec-13	ALEX122013.SSF	509671.224	27669
721982.268	4294336.819	7327	20-Dec-13	ALEX122013.SSF	509672.384	27670
721982.264	4294336.93	8611	20-Dec-13	ALEX122013.SSF	509673.356	27671
721982.317	4294337.09	8002	20-Dec-13	ALEX122013.SSF	509674.399	27672
721982.467	4294337.198	7910	20-Dec-13	ALEX122013.SSF	509675.282	27673
721982.779	4294337.201	8217	20-Dec-13	ALEX122013.SSF	509676.229	27674
721983.159	4294337.35	7634	20-Dec-13	ALEX122013.SSF	509677.2159	27675
721983.565	4294337.592	7728	20-Dec-13	ALEX122013.SSF	509678.251	27676
721983.938	4294337.981	7902	20-Dec-13	ALEX122013.SSF	509679.2679	27677
721984.147	4294338.363	7795	20-Dec-13	ALEX122013.SSF	509680.3669	27678
721984.223	4294338.63	7889	20-Dec-13	ALEX122013.SSF	509681.3571	27679
721984.306	4294338.825	7882	20-Dec-13	ALEX122013.SSF	509682.355	27680
721984.489	4294338.98	7550	20-Dec-13	ALEX122013.SSF	509683.226	27681
721984.758	4294339.24	8697	20-Dec-13	ALEX122013.SSF	509684.3879	27682
721984.837	4294339.506	8384	20-Dec-13	ALEX122013.SSF	509685.267	27683
721984.927	4294339.752	8846	20-Dec-13	ALEX122013.SSF	509686.27	27684
721985.089	4294339.9	8421	20-Dec-13	ALEX122013.SSF	509687.239	27685
721985.323	4294339.981	7835	20-Dec-13	ALEX122013.SSF	509688.24	27686
721985.49	4294340.114	7517	20-Dec-13	ALEX122013.SSF	509689.225	27687
721985.769	4294340.246	9279	20-Dec-13	ALEX122013.SSF	509690.281	27688
721986.024	4294340.443	8680	20-Dec-13	ALEX122013.SSF	509691.252	27689
721986.287	4294340.677	7750	20-Dec-13	ALEX122013.SSF	509692.259	27690
721986.534	4294340.89	7547	20-Dec-13	ALEX122013.SSF	509693.248	27691
721986.854	4294341.025	7496	20-Dec-13	ALEX122013.SSF	509694.3	27692
721987.126	4294341.268	7184	20-Dec-13	ALEX122013.SSF	509695.308	27693
721987.356	4294341.58	7676	20-Dec-13	ALEX122013.SSF	509696.358	27694
721987.542	4294341.854	7379	20-Dec-13	ALEX122013.SSF	509697.282	27695
721987.782	4294342.105	8984	20-Dec-13	ALEX122013.SSF	509698.264	27696
721988.039	4294342.229	8726	20-Dec-13	ALEX122013.SSF	509699.1851	27697
721988.327	4294342.24	8781	20-Dec-13	ALEX122013.SSF	509700.37	27698
721988.515	4294342.316	8585	20-Dec-13	ALEX122013.SSF	509701.3199	27699

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721988.744	4294342.494	9406	20-Dec-13	ALEX122013.SSF	509702.366	27700
721988.955	4294342.689	8831	20-Dec-13	ALEX122013.SSF	509703.3199	27701
721989.232	4294342.836	9498	20-Dec-13	ALEX122013.SSF	509704.39	27702
721989.411	4294342.983	8854	20-Dec-13	ALEX122013.SSF	509705.299	27703
721989.615	4294343.216	9083	20-Dec-13	ALEX122013.SSF	509706.324	27704
721989.827	4294343.438	9141	20-Dec-13	ALEX122013.SSF	509707.157	27705
721990.221	4294343.509	9575	20-Dec-13	ALEX122013.SSF	509708.257	27706
721990.45	4294343.632	10463	20-Dec-13	ALEX122013.SSF	509709.192	27707
721990.69	4294343.841	8916	20-Dec-13	ALEX122013.SSF	509710.2889	27708
721990.915	4294344.061	8139	20-Dec-13	ALEX122013.SSF	509711.218	27709
721991.224	4294344.198	7884	20-Dec-13	ALEX122013.SSF	509712.287	27710
721991.481	4294344.331	8901	20-Dec-13	ALEX122013.SSF	509713.21	27711
721991.825	4294344.43	8435	20-Dec-13	ALEX122013.SSF	509714.3149	27712
721992.086	4294344.595	7508	20-Dec-13	ALEX122013.SSF	509715.1639	27713
721992.353	4294344.738	8717	20-Dec-13	ALEX122013.SSF	509716.266	27714
721992.563	4294344.805	9019	20-Dec-13	ALEX122013.SSF	509717.131	27715
721992.798	4294344.876	9484	20-Dec-13	ALEX122013.SSF	509718.3101	27716
721993.039	4294344.993	10501	20-Dec-13	ALEX122013.SSF	509719.259	27717
721993.333	4294345.109	7815	20-Dec-13	ALEX122013.SSF	509720.351	27718
721993.611	4294345.176	7773	20-Dec-13	ALEX122013.SSF	509721.1949	27719
721993.86	4294345.391	9263	20-Dec-13	ALEX122013.SSF	509722.314	27720
721994.088	4294345.58	8856	20-Dec-13	ALEX122013.SSF	509723.266	27721
721994.352	4294345.7	8814	20-Dec-13	ALEX122013.SSF	509724.3199	27722
721994.555	4294345.825	10993	20-Dec-13	ALEX122013.SSF	509725.313	27723
721994.623	4294345.84	10068	20-Dec-13	ALEX122013.SSF	509726.371	27724
721994.729	4294345.726	9657	20-Dec-13	ALEX122013.SSF	509727.349	27725
721994.772	4294345.682	9284	20-Dec-13	ALEX122013.SSF	509728.292	27726
721994.732	4294345.735	11201	20-Dec-13	ALEX122013.SSF	509729.1949	27727
721994.703	4294345.839	10150	20-Dec-13	ALEX122013.SSF	509730.316	27728
721994.663	4294345.891	11267	20-Dec-13	ALEX122013.SSF	509731.229	27729
721994.614	4294345.944	9446	20-Dec-13	ALEX122013.SSF	509732.351	27730
721994.61	4294346.011	8361	20-Dec-13	ALEX122013.SSF	509733.313	27731
721994.644	4294346.057	8450	20-Dec-13	ALEX122013.SSF	509734.373	27732
721994.827	4294346.089	7992	20-Dec-13	ALEX122013.SSF	509735.338	27733
721995.081	4294346.148	8838	20-Dec-13	ALEX122013.SSF	509736.3051	27734
721995.357	4294346.183	8899	20-Dec-13	ALEX122013.SSF	509737.2679	27735
721995.67	4294346.4	8014	20-Dec-13	ALEX122013.SSF	509738.3409	27736
721995.949	4294346.617	8063	20-Dec-13	ALEX122013.SSF	509739.364	27737
721996.119	4294346.844	7536	20-Dec-13	ALEX122013.SSF	509740.213	27738
721996.271	4294347.009	7164	20-Dec-13	ALEX122013.SSF	509741.136	27739
721996.547	4294347.209	7131	20-Dec-13	ALEX122013.SSF	509742.271	27740
721996.716	4294347.309	7602	20-Dec-13	ALEX122013.SSF	509743.118	27741
721997.009	4294347.503	7600	20-Dec-13	ALEX122013.SSF	509744.28	27742
721997.18	4294347.688	8680	20-Dec-13	ALEX122013.SSF	509745.171	27743
721997.571	4294347.845	8740	20-Dec-13	ALEX122013.SSF	509746.377	27744
721997.834	4294347.946	8485	20-Dec-13	ALEX122013.SSF	509747.24	27745
721998.123	4294348.147	7911	20-Dec-13	ALEX122013.SSF	509748.324	27746

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721998.33	4294348.381	7347	20-Dec-13	ALEX122013.SSF	509749.287	27747
721998.69	4294348.641	7687	20-Dec-13	ALEX122013.SSF	509750.443	27748
721998.966	4294348.825	8131	20-Dec-13	ALEX122013.SSF	509751.25	27749
721999.333	4294349.07	9442	20-Dec-13	ALEX122013.SSF	509752.314	27750
721999.654	4294349.136	8360	20-Dec-13	ALEX122013.SSF	509753.207	27751
722000.018	4294349.161	8990	20-Dec-13	ALEX122013.SSF	509754.262	27752
722000.138	4294349.362	9477	20-Dec-13	ALEX122013.SSF	509755.1	27753
722000.349	4294349.641	8399	20-Dec-13	ALEX122013.SSF	509756.1851	27754
722000.603	4294349.79	8910	20-Dec-13	ALEX122013.SSF	509757.141	27755
722000.869	4294349.961	9217	20-Dec-13	ALEX122013.SSF	509758.1071	27756
722001.14	4294350.07	9144	20-Dec-13	ALEX122013.SSF	509759.1379	27757
722001.455	4294350.24	9066	20-Dec-13	ALEX122013.SSF	509760.275	27758
722001.703	4294350.397	8716	20-Dec-13	ALEX122013.SSF	509761.288	27759
722001.936	4294350.627	9529	20-Dec-13	ALEX122013.SSF	509762.3409	27760
722002.155	4294350.713	8922	20-Dec-13	ALEX122013.SSF	509763.262	27761
722002.423	4294350.784	8590	20-Dec-13	ALEX122013.SSF	509764.238	27762
722002.619	4294350.962	8087	20-Dec-13	ALEX122013.SSF	509765.181	27763
722002.864	4294351.248	8861	20-Dec-13	ALEX122013.SSF	509766.276	27764
722003.074	4294351.437	8515	20-Dec-13	ALEX122013.SSF	509767.239	27765
722003.349	4294351.668	8639	20-Dec-13	ALEX122013.SSF	509768.262	27766
722003.553	4294351.885	8339	20-Dec-13	ALEX122013.SSF	509769.145	27767
722003.893	4294352.048	7785	20-Dec-13	ALEX122013.SSF	509770.3361	27768
722004.141	4294352.202	8246	20-Dec-13	ALEX122013.SSF	509771.299	27769
722004.361	4294352.369	7671	20-Dec-13	ALEX122013.SSF	509772.278	27770
722004.449	4294352.49	8067	20-Dec-13	ALEX122013.SSF	509773.2	27771
722004.651	4294352.6	8167	20-Dec-13	ALEX122013.SSF	509774.345	27772
722004.734	4294352.7	8101	20-Dec-13	ALEX122013.SSF	509775.225	27773
722004.874	4294352.696	7875	20-Dec-13	ALEX122013.SSF	509776.314	27774
722005.1	4294352.646	8868	20-Dec-13	ALEX122013.SSF	509777.204	27775
722005.191	4294352.705	8307	20-Dec-13	ALEX122013.SSF	509778.292	27776
722005.17	4294352.854	9697	20-Dec-13	ALEX122013.SSF	509779.291	27777
722005.025	4294353.162	8574	20-Dec-13	ALEX122013.SSF	509780.311	27778
722004.824	4294353.277	8023	20-Dec-13	ALEX122013.SSF	509781.167	27779
722004.98	4294353.075	9506	20-Dec-13	ALEX122013.SSF	509782.325	27780
722005.238	4294352.719	8646	20-Dec-13	ALEX122013.SSF	509783.135	27781
722005.458	4294352.374	8491	20-Dec-13	ALEX122013.SSF	509784.28	27782
722005.565	4294352.344	8392	20-Dec-13	ALEX122013.SSF	509785.2841	27783
722005.481	4294352.33	8008	20-Dec-13	ALEX122013.SSF	509786.298	27784
722005.309	4294352.321	9142	20-Dec-13	ALEX122013.SSF	509787.165	27785
722005.328	4294352.354	8225	20-Dec-13	ALEX122013.SSF	509788.395	27786
722005.36	4294352.352	8536	20-Dec-13	ALEX122013.SSF	509789.335	27787
722005.37	4294352.346	9394	20-Dec-13	ALEX122013.SSF	509790.201	27788
722005.385	4294352.342	8678	20-Dec-13	ALEX122013.SSF	509791.34	27789
722005.392	4294352.34	9219	20-Dec-13	ALEX122013.SSF	509792.321	27790
722005.395	4294352.335	9775	20-Dec-13	ALEX122013.SSF	509793.531	27791
722005.394	4294352.329	8533	20-Dec-13	ALEX122013.SSF	509794.224	27792
722005.392	4294352.316	7893	20-Dec-13	ALEX122013.SSF	509795.282	27793

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722005.388	4294352.306	7853	20-Dec-13	ALEX122013.SSF	509796.272	27794
722005.386	4294352.3	8323	20-Dec-13	ALEX122013.SSF	509797.249	27795
722005.386	4294352.294	8231	20-Dec-13	ALEX122013.SSF	509798.271	27796
722005.378	4294352.289	8567	20-Dec-13	ALEX122013.SSF	509799.295	27797
722005.367	4294352.289	9131	20-Dec-13	ALEX122013.SSF	509800.301	27798
722005.36	4294352.299	8253	20-Dec-13	ALEX122013.SSF	509801.248	27799
722005.357	4294352.31	7913	20-Dec-13	ALEX122013.SSF	509802.276	27800
722005.353	4294352.318	8248	20-Dec-13	ALEX122013.SSF	509803.201	27801
722005.344	4294352.319	7732	20-Dec-13	ALEX122013.SSF	509804.3571	27802
722005.34	4294352.317	8563	20-Dec-13	ALEX122013.SSF	509805.071	27803
722005.341	4294352.322	8170	20-Dec-13	ALEX122013.SSF	509806.276	27804
722005.334	4294352.326	8822	20-Dec-13	ALEX122013.SSF	509807.1591	27805
722005.334	4294352.33	8655	20-Dec-13	ALEX122013.SSF	509808.307	27806
722005.329	4294352.332	8343	20-Dec-13	ALEX122013.SSF	509809.088	27807
722005.329	4294352.328	8716	20-Dec-13	ALEX122013.SSF	509810.3361	27808
722005.335	4294352.328	8539	20-Dec-13	ALEX122013.SSF	509811.2159	27809
722005.328	4294352.33	8434	20-Dec-13	ALEX122013.SSF	509812.363	27810
722005.33	4294352.332	10388	20-Dec-13	ALEX122013.SSF	509813.184	27811
722005.337	4294352.331	9377	20-Dec-13	ALEX122013.SSF	509814.2791	27812
722005.333	4294352.328	8494	20-Dec-13	ALEX122013.SSF	509815.183	27813
722005.334	4294352.324	8333	20-Dec-13	ALEX122013.SSF	509816.205	27814
722005.341	4294352.332	8563	20-Dec-13	ALEX122013.SSF	509817.213	27815
722005.339	4294352.34	9491	20-Dec-13	ALEX122013.SSF	509818.2419	27816
722005.341	4294352.342	8222	20-Dec-13	ALEX122013.SSF	509819.141	27817
722005.329	4294352.35	9585	20-Dec-13	ALEX122013.SSF	509820.131	27818
722005.338	4294352.359	8666	20-Dec-13	ALEX122013.SSF	509821.157	27819
722005.337	4294352.365	8766	20-Dec-13	ALEX122013.SSF	509822.214	27820
722005.344	4294352.37	9091	20-Dec-13	ALEX122013.SSF	509823.205	27821
722005.338	4294352.365	7882	20-Dec-13	ALEX122013.SSF	509824.229	27822
722005.338	4294352.359	9110	20-Dec-13	ALEX122013.SSF	509825.087	27823
722005.334	4294352.365	9237	20-Dec-13	ALEX122013.SSF	509826.33	27824
722005.331	4294352.352	6929	20-Dec-13	ALEX122013.SSF	509827.219	27825
722005.368	4294352.285	8662	20-Dec-13	ALEX122013.SSF	509828.261	27826
722005.388	4294352.293	8105	20-Dec-13	ALEX122013.SSF	509829.126	27827
722005.345	4294352.325	8026	20-Dec-13	ALEX122013.SSF	509830.299	27828
722005.382	4294352.132	7496	20-Dec-13	ALEX122013.SSF	509831.277	27829
722005.545	4294351.902	7244	20-Dec-13	ALEX122013.SSF	509832.293	27830
722005.772	4294351.804	7871	20-Dec-13	ALEX122013.SSF	509833.1591	27831
722005.961	4294351.759	8057	20-Dec-13	ALEX122013.SSF	509834.223	27832
722005.809	4294351.704	6784	20-Dec-13	ALEX122013.SSF	509835.162	27833
722005.347	4294351.637	8926	20-Dec-13	ALEX122013.SSF	509836.2	27834
722004.909	4294351.568	8471	20-Dec-13	ALEX122013.SSF	509837.338	27835
722004.644	4294351.536	9198	20-Dec-13	ALEX122013.SSF	509838.223	27836
722004.265	4294351.354	8539	20-Dec-13	ALEX122013.SSF	509839.313	27837
722003.881	4294351.17	8104	20-Dec-13	ALEX122013.SSF	509840.298	27838
722003.539	4294351.024	8056	20-Dec-13	ALEX122013.SSF	509841.149	27839
722003.131	4294350.92	8224	20-Dec-13	ALEX122013.SSF	509842.283	27840

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722002.818	4294350.734	9466	20-Dec-13	ALEX122013.SSF	509843.2531	27841
722002.481	4294350.573	8996	20-Dec-13	ALEX122013.SSF	509844.306	27842
722002.155	4294350.349	8729	20-Dec-13	ALEX122013.SSF	509845.287	27843
722001.802	4294350.145	7402	20-Dec-13	ALEX122013.SSF	509846.3571	27844
722001.487	4294349.917	7820	20-Dec-13	ALEX122013.SSF	509847.349	27845
722001.208	4294349.774	9185	20-Dec-13	ALEX122013.SSF	509848.245	27846
722000.917	4294349.653	8086	20-Dec-13	ALEX122013.SSF	509849.127	27847
722000.572	4294349.4	9011	20-Dec-13	ALEX122013.SSF	509850.3051	27848
722000.304	4294349.184	8613	20-Dec-13	ALEX122013.SSF	509851.139	27849
721999.998	4294348.979	8783	20-Dec-13	ALEX122013.SSF	509852.337	27850
721999.821	4294348.783	10205	20-Dec-13	ALEX122013.SSF	509853.186	27851
721999.569	4294348.625	10801	20-Dec-13	ALEX122013.SSF	509854.3101	27852
721999.544	4294348.509	8640	20-Dec-13	ALEX122013.SSF	509855.335	27853
721999.734	4294348.358	7830	20-Dec-13	ALEX122013.SSF	509856.361	27854
721999.838	4294348.269	7357	20-Dec-13	ALEX122013.SSF	509857.239	27855
721999.918	4294348.269	8769	20-Dec-13	ALEX122013.SSF	509858.333	27856
721999.812	4294348.15	10232	20-Dec-13	ALEX122013.SSF	509859.3409	27857
721999.601	4294347.973	9188	20-Dec-13	ALEX122013.SSF	509860.33	27858
721999.465	4294347.746	8837	20-Dec-13	ALEX122013.SSF	509861.307	27859
721999.281	4294347.536	9079	20-Dec-13	ALEX122013.SSF	509862.293	27860
721999.084	4294347.283	9019	20-Dec-13	ALEX122013.SSF	509863.177	27861
721998.831	4294346.979	9305	20-Dec-13	ALEX122013.SSF	509864.337	27862
721998.673	4294346.694	9166	20-Dec-13	ALEX122013.SSF	509865.338	27863
721998.507	4294346.479	9851	20-Dec-13	ALEX122013.SSF	509866.2209	27864
721998.294	4294346.258	9573	20-Dec-13	ALEX122013.SSF	509867.327	27865
721998.133	4294346.109	9233	20-Dec-13	ALEX122013.SSF	509868.278	27866
721997.968	4294345.925	9538	20-Dec-13	ALEX122013.SSF	509869.13	27867
721997.727	4294345.725	9914	20-Dec-13	ALEX122013.SSF	509870.204	27868
721997.497	4294345.479	10008	20-Dec-13	ALEX122013.SSF	509871.088	27869
721997.14	4294345.235	11532	20-Dec-13	ALEX122013.SSF	509872.265	27870
721996.891	4294345.041	9633	20-Dec-13	ALEX122013.SSF	509873.16	27871
721996.719	4294344.92	8018	20-Dec-13	ALEX122013.SSF	509874.259	27872
721996.621	4294344.814	9174	20-Dec-13	ALEX122013.SSF	509875.106	27873
721996.433	4294344.761	9883	20-Dec-13	ALEX122013.SSF	509876.299	27874
721996.281	4294344.655	10361	20-Dec-13	ALEX122013.SSF	509877.2679	27875
721995.965	4294344.495	9730	20-Dec-13	ALEX122013.SSF	509878.248	27876
721995.564	4294344.307	8822	20-Dec-13	ALEX122013.SSF	509879.204	27877
721995.175	4294344.143	9315	20-Dec-13	ALEX122013.SSF	509880.287	27878
721994.988	4294343.944	8658	20-Dec-13	ALEX122013.SSF	509881.136	27879
721994.865	4294343.739	8854	20-Dec-13	ALEX122013.SSF	509882.2679	27880
721994.744	4294343.569	9473	20-Dec-13	ALEX122013.SSF	509883.126	27881
721994.543	4294343.636	9178	20-Dec-13	ALEX122013.SSF	509884.343	27882
721994.412	4294343.753	9134	20-Dec-13	ALEX122013.SSF	509885.328	27883
721994.427	4294343.753	7953	20-Dec-13	ALEX122013.SSF	509886.308	27884
721994.443	4294343.721	9548	20-Dec-13	ALEX122013.SSF	509887.149	27885
721994.464	4294343.62	8987	20-Dec-13	ALEX122013.SSF	509888.324	27886
721994.421	4294343.52	8666	20-Dec-13	ALEX122013.SSF	509889.347	27887

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721994.263	4294343.481	9696	20-Dec-13	ALEX122013.SSF	509890.312	27888
721994.058	4294343.434	8484	20-Dec-13	ALEX122013.SSF	509891.3101	27889
721993.901	4294343.385	7431	20-Dec-13	ALEX122013.SSF	509892.299	27890
721993.838	4294343.206	8217	20-Dec-13	ALEX122013.SSF	509893.141	27891
721993.604	4294342.889	8594	20-Dec-13	ALEX122013.SSF	509894.321	27892
721993.474	4294342.735	8088	20-Dec-13	ALEX122013.SSF	509895.089	27893
721993.293	4294342.48	8322	20-Dec-13	ALEX122013.SSF	509896.2	27894
721993.114	4294342.185	8560	20-Dec-13	ALEX122013.SSF	509897.09	27895
721992.852	4294342.021	8650	20-Dec-13	ALEX122013.SSF	509898.082	27896
721992.397	4294341.885	8162	20-Dec-13	ALEX122013.SSF	509899.1541	27897
721992.024	4294341.793	7860	20-Dec-13	ALEX122013.SSF	509900.281	27898
721991.793	4294341.595	9135	20-Dec-13	ALEX122013.SSF	509901.233	27899
721991.637	4294341.417	7863	20-Dec-13	ALEX122013.SSF	509902.3361	27900
721991.502	4294341.236	8746	20-Dec-13	ALEX122013.SSF	509903.266	27901
721991.339	4294340.927	9026	20-Dec-13	ALEX122013.SSF	509904.318	27902
721991.136	4294340.674	9516	20-Dec-13	ALEX122013.SSF	509905.301	27903
721990.85	4294340.451	9159	20-Dec-13	ALEX122013.SSF	509906.33	27904
721990.585	4294340.233	8739	20-Dec-13	ALEX122013.SSF	509907.209	27905
721990.376	4294339.995	8335	20-Dec-13	ALEX122013.SSF	509908.337	27906
721990.256	4294339.837	8623	20-Dec-13	ALEX122013.SSF	509909.1	27907
721989.928	4294339.703	8096	20-Dec-13	ALEX122013.SSF	509910.295	27908
721989.696	4294339.53	9074	20-Dec-13	ALEX122013.SSF	509911.1429	27909
721989.316	4294339.361	7908	20-Dec-13	ALEX122013.SSF	509912.333	27910
721989.065	4294339.206	8277	20-Dec-13	ALEX122013.SSF	509913.1021	27911
721988.678	4294339.143	8219	20-Dec-13	ALEX122013.SSF	509914.2939	27912
721988.474	4294339.061	8175	20-Dec-13	ALEX122013.SSF	509915.097	27913
721988.129	4294338.957	9333	20-Dec-13	ALEX122013.SSF	509916.222	27914
721987.879	4294338.761	8573	20-Dec-13	ALEX122013.SSF	509917.085	27915
721987.614	4294338.588	7603	20-Dec-13	ALEX122013.SSF	509918.269	27916
721987.353	4294338.487	7631	20-Dec-13	ALEX122013.SSF	509919.217	27917
721987.09	4294338.444	8687	20-Dec-13	ALEX122013.SSF	509920.2939	27918
721986.95	4294338.377	7361	20-Dec-13	ALEX122013.SSF	509921.312	27919
721986.831	4294338.293	8140	20-Dec-13	ALEX122013.SSF	509922.3	27920
721986.597	4294338.24	8725	20-Dec-13	ALEX122013.SSF	509923.271	27921
721986.3	4294338.208	8181	20-Dec-13	ALEX122013.SSF	509924.272	27922
721986.102	4294338.143	7325	20-Dec-13	ALEX122013.SSF	509925.104	27923
721985.914	4294337.931	7261	20-Dec-13	ALEX122013.SSF	509926.2531	27924
721985.679	4294337.746	7725	20-Dec-13	ALEX122013.SSF	509927.223	27925
721985.347	4294337.653	7241	20-Dec-13	ALEX122013.SSF	509928.257	27926
721985.061	4294337.539	7060	20-Dec-13	ALEX122013.SSF	509929.207	27927
721984.876	4294337.412	7825	20-Dec-13	ALEX122013.SSF	509930.293	27928
721984.748	4294337.314	7656	20-Dec-13	ALEX122013.SSF	509931.252	27929
721984.707	4294337.152	7974	20-Dec-13	ALEX122013.SSF	509932.2729	27930
721984.603	4294337.055	8443	20-Dec-13	ALEX122013.SSF	509933.121	27931
721984.361	4294336.822	9401	20-Dec-13	ALEX122013.SSF	509934.293	27932
721984.145	4294336.679	9760	20-Dec-13	ALEX122013.SSF	509935.085	27933
721983.922	4294336.486	8680	20-Dec-13	ALEX122013.SSF	509936.147	27934

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721983.888	4294336.417	9160	20-Dec-13	ALEX122013.SSF	509937.0601	27935
721983.808	4294336.595	8950	20-Dec-13	ALEX122013.SSF	509938.26	27936
721983.603	4294336.875	8717	20-Dec-13	ALEX122013.SSF	509939.089	27937
721983.729	4294337.087	8539	20-Dec-13	ALEX122013.SSF	509940.314	27938
721983.856	4294336.845	8734	20-Dec-13	ALEX122013.SSF	509941.157	27939
721984.066	4294336.355	7583	20-Dec-13	ALEX122013.SSF	509942.347	27940
721984.385	4294336.119	8136	20-Dec-13	ALEX122013.SSF	509943.155	27941
721984.497	4294336.163	8394	20-Dec-13	ALEX122013.SSF	509944.317	27942
721984.544	4294336.243	8218	20-Dec-13	ALEX122013.SSF	509945.095	27943
721984.486	4294336.328	8024	20-Dec-13	ALEX122013.SSF	509946.264	27944
721984.36	4294336.542	8516	20-Dec-13	ALEX122013.SSF	509947.1591	27945
721984.355	4294336.613	9299	20-Dec-13	ALEX122013.SSF	509948.3051	27946
721984.447	4294336.539	8384	20-Dec-13	ALEX122013.SSF	509949.186	27947
721984.496	4294336.397	8936	20-Dec-13	ALEX122013.SSF	509950.278	27948
721984.429	4294336.338	8024	20-Dec-13	ALEX122013.SSF	509951.085	27949
721984.589	4294336.258	8636	20-Dec-13	ALEX122013.SSF	509952.266	27950
721984.795	4294336.365	8249	20-Dec-13	ALEX122013.SSF	509953.1281	27951
721984.979	4294336.539	8062	20-Dec-13	ALEX122013.SSF	509954.3	27952
721985.074	4294336.571	8645	20-Dec-13	ALEX122013.SSF	509955.085	27953
721985.208	4294336.579	8461	20-Dec-13	ALEX122013.SSF	509956.293	27954
721985.389	4294336.631	8025	20-Dec-13	ALEX122013.SSF	509957.05	27955
721985.53	4294336.759	7106	20-Dec-13	ALEX122013.SSF	509958.1479	27956
721985.676	4294336.796	7116	20-Dec-13	ALEX122013.SSF	509959.002	27957
721985.85	4294336.906	7569	20-Dec-13	ALEX122013.SSF	509960.339	27958
721986.031	4294336.968	8462	20-Dec-13	ALEX122013.SSF	509961.106	27959
721986.296	4294337.176	7365	20-Dec-13	ALEX122013.SSF	509962.365	27960
721986.456	4294337.327	7511	20-Dec-13	ALEX122013.SSF	509963.106	27961
721986.66	4294337.636	7518	20-Dec-13	ALEX122013.SSF	509964.37	27962
721986.85	4294337.81	7999	20-Dec-13	ALEX122013.SSF	509965.222	27963
721987.185	4294338.088	7459	20-Dec-13	ALEX122013.SSF	509966.33	27964
721987.5	4294338.244	6935	20-Dec-13	ALEX122013.SSF	509967.241	27965
721987.748	4294338.501	8333	20-Dec-13	ALEX122013.SSF	509968.125	27966
721988.038	4294338.739	8083	20-Dec-13	ALEX122013.SSF	509969.095	27967
721988.482	4294339.075	8651	20-Dec-13	ALEX122013.SSF	509970.24	27968
721988.873	4294339.199	7592	20-Dec-13	ALEX122013.SSF	509971.316	27969
721989.18	4294339.218	7118	20-Dec-13	ALEX122013.SSF	509972.261	27970
721989.454	4294339.229	7719	20-Dec-13	ALEX122013.SSF	509973.129	27971
721989.818	4294339.408	7780	20-Dec-13	ALEX122013.SSF	509974.33	27972
721990.053	4294339.491	7735	20-Dec-13	ALEX122013.SSF	509975.145	27973
721990.486	4294339.578	8653	20-Dec-13	ALEX122013.SSF	509976.314	27974
721990.777	4294339.633	8493	20-Dec-13	ALEX122013.SSF	509977.1071	27975
721991.125	4294339.836	8633	20-Dec-13	ALEX122013.SSF	509978.264	27976
721991.301	4294339.966	9388	20-Dec-13	ALEX122013.SSF	509979.124	27977
721991.65	4294340.071	7837	20-Dec-13	ALEX122013.SSF	509980.29	27978
721991.869	4294340.121	7119	20-Dec-13	ALEX122013.SSF	509981.1219	27979
721992.205	4294340.245	6879	20-Dec-13	ALEX122013.SSF	509982.308	27980
721992.41	4294340.382	7570	20-Dec-13	ALEX122013.SSF	509983.142	27981

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721992.738	4294340.558	8222	20-Dec-13	ALEX122013.SSF	509984.153	27982
721993.075	4294340.673	7395	20-Dec-13	ALEX122013.SSF	509985.085	27983
721993.465	4294340.892	8178	20-Dec-13	ALEX122013.SSF	509986.266	27984
721993.627	4294341.047	7774	20-Dec-13	ALEX122013.SSF	509986.9919	27985
721993.916	4294341.307	9293	20-Dec-13	ALEX122013.SSF	509988.146	27986
721994.052	4294341.431	8113	20-Dec-13	ALEX122013.SSF	509989.03	27987
721994.271	4294341.601	7218	20-Dec-13	ALEX122013.SSF	509990.158	27988
721994.256	4294341.822	7714	20-Dec-13	ALEX122013.SSF	509991.043	27989
721994.433	4294341.864	7928	20-Dec-13	ALEX122013.SSF	509992.158	27990
721994.659	4294342.03	8522	20-Dec-13	ALEX122013.SSF	509992.9821	27991
721994.967	4294342.375	8550	20-Dec-13	ALEX122013.SSF	509994.165	27992
721994.996	4294342.744	9187	20-Dec-13	ALEX122013.SSF	509995.0601	27993
721995.084	4294342.968	10307	20-Dec-13	ALEX122013.SSF	509996.0909	27994
721995.313	4294343.191	9986	20-Dec-13	ALEX122013.SSF	509997.147	27995
721995.372	4294343.32	10026	20-Dec-13	ALEX122013.SSF	509998.249	27996
721995.433	4294343.278	9526	20-Dec-13	ALEX122013.SSF	509999.03	27997
721995.457	4294343.209	9161	20-Dec-13	ALEX122013.SSF	510000.1949	27998
721995.468	4294343.189	9580	20-Dec-13	ALEX122013.SSF	510001.137	27999
721995.492	4294343.175	9355	20-Dec-13	ALEX122013.SSF	510002.272	28000
721995.514	4294343.18	9628	20-Dec-13	ALEX122013.SSF	510003.13	28001
721995.543	4294343.233	8227	20-Dec-13	ALEX122013.SSF	510004.2729	28002
721995.582	4294343.299	9076	20-Dec-13	ALEX122013.SSF	510005.109	28003
721995.679	4294343.536	8359	20-Dec-13	ALEX122013.SSF	510006.274	28004
721995.78	4294343.603	9019	20-Dec-13	ALEX122013.SSF	510007.069	28005
721996.003	4294343.761	8255	20-Dec-13	ALEX122013.SSF	510008.2841	28006
721996.221	4294343.819	7733	20-Dec-13	ALEX122013.SSF	510009.045	28007
721996.479	4294344.056	8053	20-Dec-13	ALEX122013.SSF	510010.2841	28008
721996.674	4294344.181	9153	20-Dec-13	ALEX122013.SSF	510011.114	28009
721996.908	4294344.544	8828	20-Dec-13	ALEX122013.SSF	510012.335	28010
721996.921	4294344.706	8147	20-Dec-13	ALEX122013.SSF	510013.088	28011
721997.042	4294344.706	8576	20-Dec-13	ALEX122013.SSF	510014.277	28012
721997.177	4294344.783	8744	20-Dec-13	ALEX122013.SSF	510015.089	28013
721997.471	4294344.799	10196	20-Dec-13	ALEX122013.SSF	510016.119	28014
721997.637	4294344.968	9359	20-Dec-13	ALEX122013.SSF	510017.022	28015
721997.917	4294345.272	10139	20-Dec-13	ALEX122013.SSF	510018.291	28016
721998.082	4294345.521	10125	20-Dec-13	ALEX122013.SSF	510019.051	28017
721998.329	4294345.759	9071	20-Dec-13	ALEX122013.SSF	510020.0909	28018
721998.552	4294346.092	8807	20-Dec-13	ALEX122013.SSF	510021.0699	28019
721998.807	4294346.292	8711	20-Dec-13	ALEX122013.SSF	510022.14	28020
721999.191	4294346.468	8178	20-Dec-13	ALEX122013.SSF	510023.108	28021
721999.635	4294346.581	8914	20-Dec-13	ALEX122013.SSF	510024.15	28022
721999.89	4294346.767	8858	20-Dec-13	ALEX122013.SSF	510025.09	28023
722000.186	4294346.982	8244	20-Dec-13	ALEX122013.SSF	510026.283	28024
722000.365	4294347.205	9441	20-Dec-13	ALEX122013.SSF	510027.105	28025
722000.663	4294347.446	9110	20-Dec-13	ALEX122013.SSF	510028.281	28026
722000.942	4294347.724	9207	20-Dec-13	ALEX122013.SSF	510029.106	28027
722001.236	4294347.896	8152	20-Dec-13	ALEX122013.SSF	510030.2061	28028

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722001.829	4294348.021	9014	20-Dec-13	ALEX122013.SSF	510032.124	28030
722002.074	4294348.17	10053	20-Dec-13	ALEX122013.SSF	510033.171	28031
722002.247	4294348.403	9023	20-Dec-13	ALEX122013.SSF	510034.218	28032
722002.573	4294348.662	9965	20-Dec-13	ALEX122013.SSF	510035.15	28033
722002.994	4294348.755	8761	20-Dec-13	ALEX122013.SSF	510036.165	28034
722003.213	4294348.883	8580	20-Dec-13	ALEX122013.SSF	510037.1591	28035
722003.492	4294348.93	9225	20-Dec-13	ALEX122013.SSF	510038.161	28036
722003.851	4294349.056	8966	20-Dec-13	ALEX122013.SSF	510039.188	28037
722004.184	4294349.186	8211	20-Dec-13	ALEX122013.SSF	510040.2729	28038
722004.407	4294349.307	9043	20-Dec-13	ALEX122013.SSF	510041.146	28039
722004.532	4294349.451	9100	20-Dec-13	ALEX122013.SSF	510042.2729	28040
722004.611	4294349.666	9145	20-Dec-13	ALEX122013.SSF	510043.104	28041
722004.798	4294349.913	8916	20-Dec-13	ALEX122013.SSF	510044.27	28042
722005.038	4294350.017	8499	20-Dec-13	ALEX122013.SSF	510045.084	28043
722005.232	4294350.142	9654	20-Dec-13	ALEX122013.SSF	510046.145	28044
722005.377	4294350.185	9163	20-Dec-13	ALEX122013.SSF	510047.136	28045
722005.302	4294350.379	7751	20-Dec-13	ALEX122013.SSF	510048.192	28046
722005.389	4294350.618	8537	20-Dec-13	ALEX122013.SSF	510049.1071	28047
722005.65	4294350.998	8284	20-Dec-13	ALEX122013.SSF	510050.167	28048
722005.905	4294351.155	8221	20-Dec-13	ALEX122013.SSF	510050.994	28049
722006.016	4294351.202	8175	20-Dec-13	ALEX122013.SSF	510052.078	28050
722005.881	4294351.371	8673	20-Dec-13	ALEX122013.SSF	510053.0861	28051
722005.897	4294351.389	8318	20-Dec-13	ALEX122013.SSF	510054.0959	28052
722005.952	4294351.401	8319	20-Dec-13	ALEX122013.SSF	510055.015	28053
722005.725	4294351.607	8710	20-Dec-13	ALEX122013.SSF	510056.225	28054
722005.573	4294351.724	7727	20-Dec-13	ALEX122013.SSF	510056.991	28055
722005.806	4294351.188	8801	20-Dec-13	ALEX122013.SSF	510058.196	28056
722006.335	4294350.661	9130	20-Dec-13	ALEX122013.SSF	510059.016	28057
722007.202	4294350.026	8372	20-Dec-13	ALEX122013.SSF	510060.275	28058
722007.381	4294349.873	9863	20-Dec-13	ALEX122013.SSF	510061.078	28059
722007.324	4294349.994	9035	20-Dec-13	ALEX122013.SSF	510062.189	28060
722007.317	4294350.078	8559	20-Dec-13	ALEX122013.SSF	510063.0341	28061
722007.257	4294350.256	7419	20-Dec-13	ALEX122013.SSF	510064.275	28062
722007.177	4294350.451	8575	20-Dec-13	ALEX122013.SSF	510065.167	28063
722007.16	4294350.687	7573	20-Dec-13	ALEX122013.SSF	510066.177	28064
722007.263	4294350.774	7953	20-Dec-13	ALEX122013.SSF	510067.083	28065
722007.274	4294350.825	8978	20-Dec-13	ALEX122013.SSF	510068.231	28066
722007.389	4294350.674	8874	20-Dec-13	ALEX122013.SSF	510069.067	28067
722007.565	4294350.557	8698	20-Dec-13	ALEX122013.SSF	510070.067	28068
722007.462	4294350.682	8594	20-Dec-13	ALEX122013.SSF	510071.049	28069
722007.341	4294350.752	10368	20-Dec-13	ALEX122013.SSF	510072.162	28070
722007.275	4294350.76	9342	20-Dec-13	ALEX122013.SSF	510073.089	28071
722007.241	4294350.766	9085	20-Dec-13	ALEX122013.SSF	510074.104	28072
722007.239	4294350.632	8661	20-Dec-13	ALEX122013.SSF	510074.9919	28073
722007.068	4294350.546	9095	20-Dec-13	ALEX122013.SSF	510076.1591	28074
722006.78	4294350.266	9173	20-Dec-13	ALEX122013.SSF	510077.021	28075

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722005.138	4294349.343	8171	20-Dec-13	ALEX122013.SSF	510079.035	28077
722004.101	4294348.906	9602	20-Dec-13	ALEX122013.SSF	510080.075	28078
722003.332	4294348.328	9390	20-Dec-13	ALEX122013.SSF	510081.077	28079
722003.45	4294348.031	8437	20-Dec-13	ALEX122013.SSF	510082.121	28080
722004.184	4294348.25	8889	20-Dec-13	ALEX122013.SSF	510083.028	28081
722004.911	4294348.92	8582	20-Dec-13	ALEX122013.SSF	510084.099	28082
722005.458	4294349.536	8655	20-Dec-13	ALEX122013.SSF	510085.069	28083
722005.922	4294349.763	8673	20-Dec-13	ALEX122013.SSF	510086.066	28084
722006.042	4294349.761	8738	20-Dec-13	ALEX122013.SSF	510087.0551	28085
722005.775	4294349.795	8784	20-Dec-13	ALEX122013.SSF	510088.181	28086
722005.636	4294349.735	8286	20-Dec-13	ALEX122013.SSF	510089.006	28087
722005.657	4294349.555	9391	20-Dec-13	ALEX122013.SSF	510090.276	28088
722005.589	4294349.461	9607	20-Dec-13	ALEX122013.SSF	510090.991	28089
722005.234	4294349.353	8642	20-Dec-13	ALEX122013.SSF	510092.218	28090
722004.945	4294349.258	8340	20-Dec-13	ALEX122013.SSF	510093.01	28091
722004.488	4294349.089	7335	20-Dec-13	ALEX122013.SSF	510094.151	28092
722004.159	4294348.86	8493	20-Dec-13	ALEX122013.SSF	510095.0551	28093
722003.812	4294348.681	8423	20-Dec-13	ALEX122013.SSF	510096.214	28094
722003.579	4294348.563	7476	20-Dec-13	ALEX122013.SSF	510097.063	28095
722003.337	4294348.409	8799	20-Dec-13	ALEX122013.SSF	510098.1021	28096
722003.124	4294348.277	8619	20-Dec-13	ALEX122013.SSF	510099.057	28097
722003.05	4294348.126	8695	20-Dec-13	ALEX122013.SSF	510100.248	28098
722002.852	4294348.011	8593	20-Dec-13	ALEX122013.SSF	510101.22	28099
722002.481	4294347.774	8748	20-Dec-13	ALEX122013.SSF	510102.301	28100
722002.247	4294347.549	8727	20-Dec-13	ALEX122013.SSF	510103.1429	28101
722001.988	4294347.212	7551	20-Dec-13	ALEX122013.SSF	510104.309	28102
722001.759	4294346.991	9028	20-Dec-13	ALEX122013.SSF	510105.082	28103
722001.386	4294346.784	8527	20-Dec-13	ALEX122013.SSF	510106.042	28104
722001.019	4294346.544	9571	20-Dec-13	ALEX122013.SSF	510107.04	28105
722000.75	4294346.249	9172	20-Dec-13	ALEX122013.SSF	510108.059	28106
722000.5	4294345.857	8773	20-Dec-13	ALEX122013.SSF	510109.054	28107
722000.534	4294345.627	7473	20-Dec-13	ALEX122013.SSF	510110.1021	28108
722000.569	4294345.678	7838	20-Dec-13	ALEX122013.SSF	510111.269	28109
722000.52	4294345.693	8349	20-Dec-13	ALEX122013.SSF	510112.151	28110
722000.493	4294345.648	8477	20-Dec-13	ALEX122013.SSF	510113.115	28111
722000.374	4294345.528	8449	20-Dec-13	ALEX122013.SSF	510114.129	28112
722000.202	4294345.279	9312	20-Dec-13	ALEX122013.SSF	510115.024	28113
721999.939	4294345.027	8148	20-Dec-13	ALEX122013.SSF	510116.061	28114
721999.59	4294344.873	9207	20-Dec-13	ALEX122013.SSF	510117.099	28115
721999.277	4294344.73	8811	20-Dec-13	ALEX122013.SSF	510118.099	28116
721999.033	4294344.621	8863	20-Dec-13	ALEX122013.SSF	510118.922	28117
721998.709	4294344.448	9175	20-Dec-13	ALEX122013.SSF	510120.298	28118
721998.468	4294344.348	8294	20-Dec-13	ALEX122013.SSF	510121.058	28119
721998.028	4294344.172	8313	20-Dec-13	ALEX122013.SSF	510122.124	28120
721997.607	4294343.857	8408	20-Dec-13	ALEX122013.SSF	510123.115	28121
721997.096	4294343.548	8342	20-Dec-13	ALEX122013.SSF	510124.205	28122

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721996.128	4294342.944	9513	20-Dec-13	ALEX122013.SSF	510126.132	28124
721995.771	4294342.633	8738	20-Dec-13	ALEX122013.SSF	510127.077	28125
721995.505	4294342.275	9114	20-Dec-13	ALEX122013.SSF	510128.14	28126
721995.28	4294341.848	8548	20-Dec-13	ALEX122013.SSF	510129.174	28127
721995.148	4294341.572	8227	20-Dec-13	ALEX122013.SSF	510130.082	28128
721995.038	4294341.346	9616	20-Dec-13	ALEX122013.SSF	510131.037	28129
721994.801	4294341.221	8674	20-Dec-13	ALEX122013.SSF	510132.026	28130
721994.553	4294341.059	7538	20-Dec-13	ALEX122013.SSF	510133.0601	28131
721994.463	4294340.867	7944	20-Dec-13	ALEX122013.SSF	510134.063	28132
721994.313	4294340.733	8226	20-Dec-13	ALEX122013.SSF	510135.078	28133
721994.042	4294340.737	6436	20-Dec-13	ALEX122013.SSF	510136.1219	28134
721993.884	4294340.597	8359	20-Dec-13	ALEX122013.SSF	510137.088	28135
721993.554	4294340.353	7579	20-Dec-13	ALEX122013.SSF	510138.332	28136
721993.294	4294340.071	7115	20-Dec-13	ALEX122013.SSF	510139.089	28137
721993.003	4294339.759	7418	20-Dec-13	ALEX122013.SSF	510140.093	28138
721992.675	4294339.568	7734	20-Dec-13	ALEX122013.SSF	510141.13	28139
721992.355	4294339.528	7723	20-Dec-13	ALEX122013.SSF	510142.136	28140
721992.079	4294339.277	8081	20-Dec-13	ALEX122013.SSF	510143.088	28141
721991.814	4294339.079	7960	20-Dec-13	ALEX122013.SSF	510144.0909	28142
721991.562	4294338.826	8180	20-Dec-13	ALEX122013.SSF	510145.132	28143
721991.287	4294338.607	8057	20-Dec-13	ALEX122013.SSF	510146.233	28144
721991.024	4294338.4	7324	20-Dec-13	ALEX122013.SSF	510147.0551	28145
721990.816	4294338.064	7861	20-Dec-13	ALEX122013.SSF	510148.118	28146
721990.652	4294337.783	7575	20-Dec-13	ALEX122013.SSF	510149.019	28147
721990.437	4294337.493	7833	20-Dec-13	ALEX122013.SSF	510150.073	28148
721990.381	4294337.173	8618	20-Dec-13	ALEX122013.SSF	510151.03	28149
721990.161	4294336.979	8724	20-Dec-13	ALEX122013.SSF	510152.167	28150
721989.992	4294336.817	7461	20-Dec-13	ALEX122013.SSF	510153.058	28151
721989.729	4294336.538	6965	20-Dec-13	ALEX122013.SSF	510154.106	28152
721989.4	4294336.325	7201	20-Dec-13	ALEX122013.SSF	510155.1071	28153
721989.187	4294336.219	7170	20-Dec-13	ALEX122013.SSF	510156.119	28154
721988.953	4294336.058	8032	20-Dec-13	ALEX122013.SSF	510157.099	28155
721988.619	4294335.756	7648	20-Dec-13	ALEX122013.SSF	510158.155	28156
721988.232	4294335.584	7732	20-Dec-13	ALEX122013.SSF	510159.269	28157
721987.978	4294335.489	7513	20-Dec-13	ALEX122013.SSF	510160.057	28158
721987.675	4294335.429	8868	20-Dec-13	ALEX122013.SSF	510161.052	28159
721987.282	4294335.395	7947	20-Dec-13	ALEX122013.SSF	510162.08	28160
721986.821	4294335.451	9006	20-Dec-13	ALEX122013.SSF	510163.056	28161
721986.364	4294335.25	8641	20-Dec-13	ALEX122013.SSF	510164.155	28162
721986.007	4294335.116	7590	20-Dec-13	ALEX122013.SSF	510165.08	28163
721985.57	4294334.847	8647	20-Dec-13	ALEX122013.SSF	510166.135	28164
721985.286	4294334.8	8282	20-Dec-13	ALEX122013.SSF	510167.032	28165
721985.22	4294334.754	8910	20-Dec-13	ALEX122013.SSF	510168.111	28166
721985.234	4294334.706	8137	20-Dec-13	ALEX122013.SSF	510169.079	28167
721985.183	4294334.771	8874	20-Dec-13	ALEX122013.SSF	510170.146	28168
721985.244	4294334.798	7888	20-Dec-13	ALEX122013.SSF	510171.02	28169

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721984.842	4294334.975	7342	20-Dec-13	ALEX122013.SSF	510172.067	28170
721984.617	4294335.187	7535	20-Dec-13	ALEX122013.SSF	510173.01	28171
721984.796	4294335.028	7553	20-Dec-13	ALEX122013.SSF	510174.076	28172
721984.93	4294334.655	7678	20-Dec-13	ALEX122013.SSF	510175.09	28173
721985.354	4294334.268	7709	20-Dec-13	ALEX122013.SSF	510176.137	28174
721985.604	4294334.045	7477	20-Dec-13	ALEX122013.SSF	510177.082	28175
721985.693	4294333.978	7839	20-Dec-13	ALEX122013.SSF	510178.203	28176
721985.703	4294333.95	7869	20-Dec-13	ALEX122013.SSF	510179.144	28177
721985.376	4294334.113	7577	20-Dec-13	ALEX122013.SSF	510180.093	28178
721985.163	4294334.46	7954	20-Dec-13	ALEX122013.SSF	510181.0699	28179
721985.18	4294334.347	7598	20-Dec-13	ALEX122013.SSF	510182.048	28180
721985.139	4294334.187	6759	20-Dec-13	ALEX122013.SSF	510182.957	28181
721985.282	4294334.089	7120	20-Dec-13	ALEX122013.SSF	510184.047	28182
721985.272	4294334.27	6910	20-Dec-13	ALEX122013.SSF	510185.124	28183
721985.387	4294334.337	7547	20-Dec-13	ALEX122013.SSF	510186.103	28184
721985.612	4294334.429	7376	20-Dec-13	ALEX122013.SSF	510187.067	28185
721985.776	4294334.43	7034	20-Dec-13	ALEX122013.SSF	510188.0551	28186
721985.874	4294334.391	8358	20-Dec-13	ALEX122013.SSF	510189.03	28187
721986.042	4294334.449	8239	20-Dec-13	ALEX122013.SSF	510190.067	28188
721986.256	4294334.542	7729	20-Dec-13	ALEX122013.SSF	510190.979	28189
721986.54	4294334.659	8322	20-Dec-13	ALEX122013.SSF	510192.061	28190
721986.816	4294334.759	8050	20-Dec-13	ALEX122013.SSF	510193.08	28191
721987.123	4294334.836	8042	20-Dec-13	ALEX122013.SSF	510194.066	28192
721987.431	4294334.938	7770	20-Dec-13	ALEX122013.SSF	510195.093	28193
721987.761	4294335.127	8212	20-Dec-13	ALEX122013.SSF	510196.106	28194
721988.034	4294335.277	8503	20-Dec-13	ALEX122013.SSF	510197.118	28195
721988.33	4294335.509	9026	20-Dec-13	ALEX122013.SSF	510198.106	28196
721988.664	4294335.579	7866	20-Dec-13	ALEX122013.SSF	510199.101	28197
721988.999	4294335.734	8266	20-Dec-13	ALEX122013.SSF	510200.053	28198
721989.312	4294335.846	8606	20-Dec-13	ALEX122013.SSF	510201.129	28199
721989.629	4294336.026	8511	20-Dec-13	ALEX122013.SSF	510202.17	28200
721989.955	4294336.19	8068	20-Dec-13	ALEX122013.SSF	510203.109	28201
721990.36	4294336.417	8407	20-Dec-13	ALEX122013.SSF	510204.14	28202
721990.676	4294336.47	7591	20-Dec-13	ALEX122013.SSF	510205.021	28203
721991.042	4294336.723	7237	20-Dec-13	ALEX122013.SSF	510206.059	28204
721991.262	4294337.013	8169	20-Dec-13	ALEX122013.SSF	510207.079	28205
721991.47	4294337.355	7952	20-Dec-13	ALEX122013.SSF	510208.066	28206
721991.634	4294337.636	7148	20-Dec-13	ALEX122013.SSF	510209.025	28207
721991.831	4294337.968	8117	20-Dec-13	ALEX122013.SSF	510210.1021	28208
721992.08	4294338.213	8509	20-Dec-13	ALEX122013.SSF	510211.03	28209
721992.244	4294338.563	8307	20-Dec-13	ALEX122013.SSF	510211.991	28210
721992.443	4294338.84	8197	20-Dec-13	ALEX122013.SSF	510212.917	28211
721992.892	4294339.185	8829	20-Dec-13	ALEX122013.SSF	510214.025	28212
721993.263	4294339.451	8897	20-Dec-13	ALEX122013.SSF	510215.054	28213
721993.485	4294339.714	8194	20-Dec-13	ALEX122013.SSF	510216.168	28214
721993.599	4294339.915	9098	20-Dec-13	ALEX122013.SSF	510217.097	28215
721993.889	4294340.054	8454	20-Dec-13	ALEX122013.SSF	510218.127	28216

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721994.225	4294340.168	8113	20-Dec-13	ALEX122013.SSF	510219.022	28217
721994.662	4294340.181	7818	20-Dec-13	ALEX122013.SSF	510220.093	28218
721995.082	4294340.38	7924	20-Dec-13	ALEX122013.SSF	510221.104	28219
721995.58	4294340.418	7801	20-Dec-13	ALEX122013.SSF	510222.139	28220
721996.056	4294340.566	8550	20-Dec-13	ALEX122013.SSF	510223.006	28221
721996.592	4294340.689	8887	20-Dec-13	ALEX122013.SSF	510224.106	28222
721996.896	4294340.913	8192	20-Dec-13	ALEX122013.SSF	510225.0341	28223
721997.131	4294341.239	8558	20-Dec-13	ALEX122013.SSF	510226.047	28224
721997.34	4294341.619	8379	20-Dec-13	ALEX122013.SSF	510227.042	28225
721997.586	4294341.767	8395	20-Dec-13	ALEX122013.SSF	510228.051	28226
721997.891	4294341.985	8998	20-Dec-13	ALEX122013.SSF	510229.0439	28227
721998.211	4294342.307	8909	20-Dec-13	ALEX122013.SSF	510230.098	28228
721998.431	4294342.566	7807	20-Dec-13	ALEX122013.SSF	510231.095	28229
721998.656	4294342.662	8641	20-Dec-13	ALEX122013.SSF	510232.1281	28230
721998.891	4294342.766	7890	20-Dec-13	ALEX122013.SSF	510233.05	28231
721999.111	4294342.947	7432	20-Dec-13	ALEX122013.SSF	510234.152	28232
721999.223	4294343.182	6598	20-Dec-13	ALEX122013.SSF	510235.089	28233
721999.227	4294343.32	8369	20-Dec-13	ALEX122013.SSF	510236.103	28234
721999.272	4294343.442	7522	20-Dec-13	ALEX122013.SSF	510237.09	28235
721999.362	4294343.485	7880	20-Dec-13	ALEX122013.SSF	510238.0861	28236
721999.423	4294343.401	8360	20-Dec-13	ALEX122013.SSF	510239.139	28237
721999.424	4294343.561	9140	20-Dec-13	ALEX122013.SSF	510240.095	28238
721999.551	4294343.703	7685	20-Dec-13	ALEX122013.SSF	510240.9771	28239
721999.877	4294343.822	7351	20-Dec-13	ALEX122013.SSF	510242.089	28240
722000.188	4294344.096	7897	20-Dec-13	ALEX122013.SSF	510243.075	28241
722000.525	4294344.175	8064	20-Dec-13	ALEX122013.SSF	510244.097	28242
722000.802	4294344.267	8406	20-Dec-13	ALEX122013.SSF	510244.978	28243
722001.005	4294344.468	8101	20-Dec-13	ALEX122013.SSF	510246.132	28244
722001.078	4294344.617	8745	20-Dec-13	ALEX122013.SSF	510246.885	28245
722001.35	4294344.861	9236	20-Dec-13	ALEX122013.SSF	510248.064	28246
722001.704	4294345.043	9029	20-Dec-13	ALEX122013.SSF	510248.957	28247
722002.09	4294345.333	8857	20-Dec-13	ALEX122013.SSF	510250.108	28248
722002.448	4294345.512	8574	20-Dec-13	ALEX122013.SSF	510251.0959	28249
722002.902	4294345.876	8383	20-Dec-13	ALEX122013.SSF	510252.113	28250
722003.322	4294346.021	8006	20-Dec-13	ALEX122013.SSF	510252.984	28251
722003.836	4294346.385	8541	20-Dec-13	ALEX122013.SSF	510254.1281	28252
722004.166	4294346.592	8615	20-Dec-13	ALEX122013.SSF	510254.99	28253
722004.622	4294347.053	8423	20-Dec-13	ALEX122013.SSF	510256.078	28254
722005.133	4294347.444	8796	20-Dec-13	ALEX122013.SSF	510257.088	28255
722005.641	4294347.909	8529	20-Dec-13	ALEX122013.SSF	510258.093	28256
722006	4294348.223	8312	20-Dec-13	ALEX122013.SSF	510258.986	28257
722006.417	4294348.644	8348	20-Dec-13	ALEX122013.SSF	510260.197	28258
722006.581	4294348.89	8507	20-Dec-13	ALEX122013.SSF	510260.979	28259
722006.854	4294349.215	8726	20-Dec-13	ALEX122013.SSF	510262.149	28260
722006.969	4294349.396	7851	20-Dec-13	ALEX122013.SSF	510263.141	28261
722006.998	4294349.538	9283	20-Dec-13	ALEX122013.SSF	510263.99	28262
722007.148	4294349.768	8590	20-Dec-13	ALEX122013.SSF	510264.991	28263

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722007.232	4294349.906	7577	20-Dec-13	ALEX122013.SSF	510266.024	28264
722007.109	4294350.006	7804	20-Dec-13	ALEX122013.SSF	510266.921	28265
722007.079	4294349.698	8671	20-Dec-13	ALEX122013.SSF	510267.99	28266
722007.716	4294348.788	9847	20-Dec-13	ALEX122013.SSF	510269.066	28267
722008.824	4294348.109	8072	20-Dec-13	ALEX122013.SSF	510270.1801	28268
722009.185	4294348.039	9008	20-Dec-13	ALEX122013.SSF	510270.9709	28269
722008.952	4294348.184	8912	20-Dec-13	ALEX122013.SSF	510272.113	28270
722008.786	4294348.342	8708	20-Dec-13	ALEX122013.SSF	510272.972	28271
722008.526	4294348.538	8327	20-Dec-13	ALEX122013.SSF	510274.1169	28272
722008.252	4294348.722	9101	20-Dec-13	ALEX122013.SSF	510274.994	28273
722007.991	4294348.791	8335	20-Dec-13	ALEX122013.SSF	510276.123	28274
722007.879	4294348.786	8234	20-Dec-13	ALEX122013.SSF	510276.916	28275
722007.72	4294348.784	8328	20-Dec-13	ALEX122013.SSF	510278.089	28276
722007.704	4294348.804	7962	20-Dec-13	ALEX122013.SSF	510278.99	28277
722007.707	4294348.862	7720	20-Dec-13	ALEX122013.SSF	510280.0291	28278
722007.721	4294348.894	8140	20-Dec-13	ALEX122013.SSF	510281.1071	28279
722007.71	4294348.929	7345	20-Dec-13	ALEX122013.SSF	510282.068	28280
722007.702	4294348.942	8466	20-Dec-13	ALEX122013.SSF	510282.984	28281
722007.682	4294348.946	9196	20-Dec-13	ALEX122013.SSF	510284.052	28282
722007.822	4294349.288	8238	20-Dec-13	ALEX122013.SSF	510358.085	28283
722007.822	4294349.254	9019	20-Dec-13	ALEX122013.SSF	510358.927	28284
722007.835	4294349.228	8915	20-Dec-13	ALEX122013.SSF	510359.9659	28285
722007.823	4294349.182	8768	20-Dec-13	ALEX122013.SSF	510361	28286
722007.811	4294349.144	7322	20-Dec-13	ALEX122013.SSF	510362	28287
722007.811	4294349.11	7950	20-Dec-13	ALEX122013.SSF	510362.887	28288
722007.821	4294349.077	8377	20-Dec-13	ALEX122013.SSF	510363.944	28289
722007.834	4294349.062	9384	20-Dec-13	ALEX122013.SSF	510364.886	28290
722007.821	4294349.03	9456	20-Dec-13	ALEX122013.SSF	510366.1949	28291
722007.842	4294349.029	8514	20-Dec-13	ALEX122013.SSF	510366.925	28292
722007.867	4294348.827	9088	20-Dec-13	ALEX122013.SSF	510368.1071	28293
722007.829	4294348.784	8812	20-Dec-13	ALEX122013.SSF	510368.98	28294
722008.002	4294348.87	9553	20-Dec-13	ALEX122013.SSF	510370.1169	28295
722008.093	4294348.881	9438	20-Dec-13	ALEX122013.SSF	510370.941	28296
722008.042	4294348.833	10039	20-Dec-13	ALEX122013.SSF	510372.051	28297
722007.924	4294348.824	7969	20-Dec-13	ALEX122013.SSF	510372.995	28298
722007.671	4294348.649	8322	20-Dec-13	ALEX122013.SSF	510374.129	28299
722007.304	4294348.577	7720	20-Dec-13	ALEX122013.SSF	510375.095	28300
722006.85	4294348.378	8020	20-Dec-13	ALEX122013.SSF	510376.053	28301
722006.608	4294348.202	7825	20-Dec-13	ALEX122013.SSF	510376.952	28302
722006.269	4294347.892	7716	20-Dec-13	ALEX122013.SSF	510378.16	28303
722006.048	4294347.595	9459	20-Dec-13	ALEX122013.SSF	510379.005	28304
722005.823	4294347.237	7764	20-Dec-13	ALEX122013.SSF	510380.082	28305
722005.616	4294347.081	7611	20-Dec-13	ALEX122013.SSF	510380.9919	28306
722005.386	4294346.853	8112	20-Dec-13	ALEX122013.SSF	510382.14	28307
722005.298	4294346.676	8358	20-Dec-13	ALEX122013.SSF	510382.993	28308
722004.871	4294346.592	8059	20-Dec-13	ALEX122013.SSF	510384.135	28309
722004.525	4294346.514	8554	20-Dec-13	ALEX122013.SSF	510385.015	28310

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722004.217	4294346.425	9278	20-Dec-13	ALEX122013.SSF	510386.094	28311
722003.91	4294346.379	9219	20-Dec-13	ALEX122013.SSF	510386.9771	28312
722003.58	4294346.371	9175	20-Dec-13	ALEX122013.SSF	510388.0179	28313
722003.399	4294346.079	8923	20-Dec-13	ALEX122013.SSF	510388.967	28314
722003.089	4294345.818	9131	20-Dec-13	ALEX122013.SSF	510390.015	28315
722002.774	4294345.533	9122	20-Dec-13	ALEX122013.SSF	510390.813	28316
722002.384	4294345.095	8370	20-Dec-13	ALEX122013.SSF	510391.97	28317
722002.099	4294344.705	8812	20-Dec-13	ALEX122013.SSF	510392.8149	28318
722001.881	4294344.351	8353	20-Dec-13	ALEX122013.SSF	510393.954	28319
722001.733	4294344.169	8148	20-Dec-13	ALEX122013.SSF	510394.803	28320
722001.523	4294344.008	8127	20-Dec-13	ALEX122013.SSF	510395.984	28321
722001.32	4294343.873	7761	20-Dec-13	ALEX122013.SSF	510396.826	28322
722001.008	4294343.719	7640	20-Dec-13	ALEX122013.SSF	510397.951	28323
722000.762	4294343.446	8570	20-Dec-13	ALEX122013.SSF	510398.936	28324
722000.601	4294343.203	8682	20-Dec-13	ALEX122013.SSF	510400.101	28325
722000.426	4294343.071	8680	20-Dec-13	ALEX122013.SSF	510400.8719	28326
722000.056	4294342.875	8290	20-Dec-13	ALEX122013.SSF	510402.033	28327
721999.758	4294342.663	7952	20-Dec-13	ALEX122013.SSF	510402.9301	28328
721999.405	4294342.458	8138	20-Dec-13	ALEX122013.SSF	510404.063	28329
721999.195	4294342.444	8664	20-Dec-13	ALEX122013.SSF	510404.9709	28330
721999.098	4294342.364	8766	20-Dec-13	ALEX122013.SSF	510406.079	28331
721998.963	4294342.264	8371	20-Dec-13	ALEX122013.SSF	510406.98	28332
721998.806	4294342.113	7972	20-Dec-13	ALEX122013.SSF	510408.127	28333
721998.683	4294341.977	8203	20-Dec-13	ALEX122013.SSF	510408.868	28334
721998.412	4294341.674	8771	20-Dec-13	ALEX122013.SSF	510410.1429	28335
721998.143	4294341.509	8612	20-Dec-13	ALEX122013.SSF	510411.139	28336
721997.956	4294341.276	7883	20-Dec-13	ALEX122013.SSF	510412.073	28337
721997.739	4294341.052	9770	20-Dec-13	ALEX122013.SSF	510413.0081	28338
721997.539	4294340.85	8532	20-Dec-13	ALEX122013.SSF	510414.015	28339
721997.308	4294340.69	9273	20-Dec-13	ALEX122013.SSF	510414.944	28340
721997.086	4294340.294	7988	20-Dec-13	ALEX122013.SSF	510416.127	28341
721996.944	4294339.972	7967	20-Dec-13	ALEX122013.SSF	510417.0081	28342
721996.727	4294339.629	9191	20-Dec-13	ALEX122013.SSF	510418.057	28343
721996.521	4294339.433	8508	20-Dec-13	ALEX122013.SSF	510418.9351	28344
721996.219	4294339.208	8907	20-Dec-13	ALEX122013.SSF	510420.031	28345
721995.994	4294339.08	8526	20-Dec-13	ALEX122013.SSF	510420.97	28346
721995.829	4294338.849	7651	20-Dec-13	ALEX122013.SSF	510422.004	28347
721995.551	4294338.651	7762	20-Dec-13	ALEX122013.SSF	510422.887	28348
721995.199	4294338.304	8300	20-Dec-13	ALEX122013.SSF	510423.976	28349
721994.54	4294337.948	7658	20-Dec-13	ALEX122013.SSF	510426.1121	28351
721994.426	4294337.849	7404	20-Dec-13	ALEX122013.SSF	510426.861	28352
721994.135	4294337.799	7191	20-Dec-13	ALEX122013.SSF	510428.069	28353
721993.985	4294337.766	8247	20-Dec-13	ALEX122013.SSF	510428.8979	28354
721993.749	4294337.66	8362	20-Dec-13	ALEX122013.SSF	510430.0031	28355
721993.632	4294337.487	8480	20-Dec-13	ALEX122013.SSF	510430.957	28356
721993.45	4294337.317	8300	20-Dec-13	ALEX122013.SSF	510432.035	28357
721993.274	4294337.116	7715	20-Dec-13	ALEX122013.SSF	510432.88	28358

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721992.946	4294336.931	7838	20-Dec-13	ALEX122013.SSF	510433.976	28359
721992.591	4294336.72	7689	20-Dec-13	ALEX122013.SSF	510434.9561	28360
721992.273	4294336.512	9182	20-Dec-13	ALEX122013.SSF	510435.993	28361
721992.029	4294336.312	7845	20-Dec-13	ALEX122013.SSF	510436.975	28362
721991.688	4294336.101	7091	20-Dec-13	ALEX122013.SSF	510437.995	28363
721991.376	4294335.83	7623	20-Dec-13	ALEX122013.SSF	510438.993	28364
721991.117	4294335.624	8505	20-Dec-13	ALEX122013.SSF	510440.0291	28365
721990.925	4294335.467	7616	20-Dec-13	ALEX122013.SSF	510440.816	28366
721990.6	4294335.241	7754	20-Dec-13	ALEX122013.SSF	510441.947	28367
721990.376	4294335.053	8958	20-Dec-13	ALEX122013.SSF	510442.953	28368
721990.076	4294334.927	8119	20-Dec-13	ALEX122013.SSF	510443.936	28369
721989.754	4294334.83	7519	20-Dec-13	ALEX122013.SSF	510444.934	28370
721989.496	4294334.688	6620	20-Dec-13	ALEX122013.SSF	510445.9139	28371
721989.271	4294334.463	7955	20-Dec-13	ALEX122013.SSF	510446.984	28372
721989.097	4294334.212	7808	20-Dec-13	ALEX122013.SSF	510447.964	28373
721988.821	4294334.152	8192	20-Dec-13	ALEX122013.SSF	510448.858	28374
721988.441	4294334.088	8168	20-Dec-13	ALEX122013.SSF	510449.984	28375
721988.181	4294334.002	8642	20-Dec-13	ALEX122013.SSF	510450.9871	28376
721987.909	4294333.918	8400	20-Dec-13	ALEX122013.SSF	510452.016	28377
721987.579	4294333.828	8340	20-Dec-13	ALEX122013.SSF	510452.979	28378
721987.252	4294333.728	7845	20-Dec-13	ALEX122013.SSF	510453.978	28379
721987.067	4294333.696	7061	20-Dec-13	ALEX122013.SSF	510454.826	28380
721986.818	4294333.629	7225	20-Dec-13	ALEX122013.SSF	510455.938	28381
721986.582	4294333.518	7146	20-Dec-13	ALEX122013.SSF	510456.929	28382
721986.346	4294333.46	8236	20-Dec-13	ALEX122013.SSF	510457.981	28383
721986.343	4294333.412	8359	20-Dec-13	ALEX122013.SSF	510458.944	28384
721986.571	4294333.282	8179	20-Dec-13	ALEX122013.SSF	510460.094	28385
721986.709	4294333.156	7265	20-Dec-13	ALEX122013.SSF	510460.895	28386
721986.617	4294332.968	7456	20-Dec-13	ALEX122013.SSF	510461.994	28387
721986.396	4294333.088	8104	20-Dec-13	ALEX122013.SSF	510462.892	28388
721986.566	4294333.361	7156	20-Dec-13	ALEX122013.SSF	510463.986	28389
721986.59	4294332.912	7519	20-Dec-13	ALEX122013.SSF	510464.9351	28390
721986.544	4294332.213	7879	20-Dec-13	ALEX122013.SSF	510465.924	28391
721986.795	4294331.883	7430	20-Dec-13	ALEX122013.SSF	510466.928	28392
721986.559	4294332.059	7347	20-Dec-13	ALEX122013.SSF	510468.118	28393
721986.363	4294332.237	7147	20-Dec-13	ALEX122013.SSF	510468.876	28394
721986.4	4294332.267	8056	20-Dec-13	ALEX122013.SSF	510470.145	28395
721986.527	4294332.185	6874	20-Dec-13	ALEX122013.SSF	510470.903	28396
721986.69	4294332.175	7838	20-Dec-13	ALEX122013.SSF	510472.097	28397
721986.849	4294332.251	6849	20-Dec-13	ALEX122013.SSF	510472.938	28398
721987.069	4294332.53	7442	20-Dec-13	ALEX122013.SSF	510474.009	28399
721987.299	4294332.608	7920	20-Dec-13	ALEX122013.SSF	510475.007	28400
721987.443	4294332.597	8760	20-Dec-13	ALEX122013.SSF	510476.0601	28401
721987.35	4294332.609	8130	20-Dec-13	ALEX122013.SSF	510476.972	28402
721987.383	4294332.569	8122	20-Dec-13	ALEX122013.SSF	510478.0229	28403
721987.429	4294332.552	7250	20-Dec-13	ALEX122013.SSF	510478.873	28404
721987.484	4294332.553	7152	20-Dec-13	ALEX122013.SSF	510480.011	28405

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721987.55	4294332.517	7278	20-Dec-13	ALEX122013.SSF	510480.8979	28406
721987.609	4294332.642	8269	20-Dec-13	ALEX122013.SSF	510481.981	28407
721987.853	4294332.675	7467	20-Dec-13	ALEX122013.SSF	510482.916	28408
721988.24	4294332.929	7627	20-Dec-13	ALEX122013.SSF	510483.989	28409
721988.52	4294333.026	8116	20-Dec-13	ALEX122013.SSF	510484.903	28410
721988.759	4294333.194	7399	20-Dec-13	ALEX122013.SSF	510485.98	28411
721988.858	4294333.307	7249	20-Dec-13	ALEX122013.SSF	510486.793	28412
721988.972	4294333.494	8712	20-Dec-13	ALEX122013.SSF	510487.9189	28413
721989.067	4294333.568	7368	20-Dec-13	ALEX122013.SSF	510488.906	28414
721989.375	4294333.676	8142	20-Dec-13	ALEX122013.SSF	510490.121	28415
721989.669	4294333.792	8575	20-Dec-13	ALEX122013.SSF	510490.887	28416
721990.087	4294333.98	8174	20-Dec-13	ALEX122013.SSF	510491.999	28417
721990.484	4294334.203	8223	20-Dec-13	ALEX122013.SSF	510492.983	28418
721990.949	4294334.4	7905	20-Dec-13	ALEX122013.SSF	510494.073	28419
721991.317	4294334.599	8272	20-Dec-13	ALEX122013.SSF	510494.869	28420
721991.763	4294334.768	7199	20-Dec-13	ALEX122013.SSF	510495.96	28421
721991.986	4294334.983	7139	20-Dec-13	ALEX122013.SSF	510496.842	28422
721992.268	4294335.044	7792	20-Dec-13	ALEX122013.SSF	510498.04	28423
721992.592	4294335.181	8156	20-Dec-13	ALEX122013.SSF	510498.9449	28424
721992.912	4294335.331	8204	20-Dec-13	ALEX122013.SSF	510500.0909	28425
721993.057	4294335.544	8081	20-Dec-13	ALEX122013.SSF	510500.928	28426
721993.226	4294335.708	8170	20-Dec-13	ALEX122013.SSF	510501.953	28427
721993.456	4294335.96	7682	20-Dec-13	ALEX122013.SSF	510502.855	28428
721993.8	4294336.104	8340	20-Dec-13	ALEX122013.SSF	510503.944	28429
721994.078	4294336.288	8715	20-Dec-13	ALEX122013.SSF	510504.827	28430
721994.32	4294336.429	8928	20-Dec-13	ALEX122013.SSF	510505.937	28431
721994.505	4294336.595	8352	20-Dec-13	ALEX122013.SSF	510506.819	28432
721994.735	4294336.923	8268	20-Dec-13	ALEX122013.SSF	510508.152	28433
721994.882	4294337.125	8457	20-Dec-13	ALEX122013.SSF	510508.859	28434
721995.086	4294337.42	7874	20-Dec-13	ALEX122013.SSF	510509.9301	28435
721995.203	4294337.762	8538	20-Dec-13	ALEX122013.SSF	510510.882	28436
721995.304	4294338.05	7474	20-Dec-13	ALEX122013.SSF	510511.975	28437
721995.363	4294338.258	9488	20-Dec-13	ALEX122013.SSF	510512.871	28438
721995.553	4294338.503	8582	20-Dec-13	ALEX122013.SSF	510513.9871	28439
721995.778	4294338.651	7935	20-Dec-13	ALEX122013.SSF	510514.873	28440
721996.222	4294338.922	9603	20-Dec-13	ALEX122013.SSF	510515.954	28441
721996.637	4294339.126	8791	20-Dec-13	ALEX122013.SSF	510516.829	28442
721997.125	4294339.329	9457	20-Dec-13	ALEX122013.SSF	510517.951	28443
721997.455	4294339.381	8754	20-Dec-13	ALEX122013.SSF	510518.845	28444
721997.867	4294339.511	8788	20-Dec-13	ALEX122013.SSF	510519.949	28445
721998.213	4294339.652	9367	20-Dec-13	ALEX122013.SSF	510520.972	28446
721998.598	4294339.901	8581	20-Dec-13	ALEX122013.SSF	510522.032	28447
721998.888	4294339.957	9315	20-Dec-13	ALEX122013.SSF	510522.827	28448
721999.244	4294340.134	8718	20-Dec-13	ALEX122013.SSF	510523.983	28449
721999.475	4294340.223	8749	20-Dec-13	ALEX122013.SSF	510524.825	28450
721999.798	4294340.479	7707	20-Dec-13	ALEX122013.SSF	510526.069	28451
722000.003	4294340.613	8317	20-Dec-13	ALEX122013.SSF	510526.974	28452

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722000.339	4294340.776	9039	20-Dec-13	ALEX122013.SSF	510528.057	28453
722000.426	4294340.902	8169	20-Dec-13	ALEX122013.SSF	510528.866	28454
722000.648	4294341.071	7982	20-Dec-13	ALEX122013.SSF	510529.941	28455
722000.827	4294341.248	8445	20-Dec-13	ALEX122013.SSF	510530.781	28456
722001.025	4294341.506	9581	20-Dec-13	ALEX122013.SSF	510531.86	28457
722001.09	4294341.727	7705	20-Dec-13	ALEX122013.SSF	510532.781	28458
722001.261	4294341.874	8736	20-Dec-13	ALEX122013.SSF	510533.837	28459
722001.349	4294341.896	9084	20-Dec-13	ALEX122013.SSF	510534.744	28460
722001.35	4294341.923	7971	20-Dec-13	ALEX122013.SSF	510535.9821	28461
722001.507	4294341.879	8502	20-Dec-13	ALEX122013.SSF	510536.816	28462
722001.734	4294342.145	8605	20-Dec-13	ALEX122013.SSF	510537.98	28463
722001.895	4294342.399	8631	20-Dec-13	ALEX122013.SSF	510538.979	28464
722002.102	4294342.684	8877	20-Dec-13	ALEX122013.SSF	510539.974	28465
722002.292	4294342.803	7889	20-Dec-13	ALEX122013.SSF	510540.874	28466
722002.567	4294342.962	8452	20-Dec-13	ALEX122013.SSF	510542	28467
722002.841	4294343.101	9163	20-Dec-13	ALEX122013.SSF	510543	28468
722003.292	4294343.261	7870	20-Dec-13	ALEX122013.SSF	510544.006	28469
722003.483	4294343.441	8327	20-Dec-13	ALEX122013.SSF	510544.8621	28470
722003.73	4294343.572	8081	20-Dec-13	ALEX122013.SSF	510545.965	28471
722003.978	4294343.674	7690	20-Dec-13	ALEX122013.SSF	510546.97	28472
722004.337	4294343.804	8492	20-Dec-13	ALEX122013.SSF	510548.153	28473
722004.501	4294343.901	7853	20-Dec-13	ALEX122013.SSF	510548.812	28474
722004.82	4294344.127	8113	20-Dec-13	ALEX122013.SSF	510549.962	28475
722004.962	4294344.333	7338	20-Dec-13	ALEX122013.SSF	510550.874	28476
722005.186	4294344.552	8134	20-Dec-13	ALEX122013.SSF	510552.015	28477
722005.343	4294344.715	8393	20-Dec-13	ALEX122013.SSF	510552.927	28478
722005.598	4294345.007	8608	20-Dec-13	ALEX122013.SSF	510554.01	28479
722005.747	4294345.296	9022	20-Dec-13	ALEX122013.SSF	510554.89	28480
722005.924	4294345.556	8735	20-Dec-13	ALEX122013.SSF	510555.936	28481
722006.029	4294345.745	9143	20-Dec-13	ALEX122013.SSF	510556.8669	28482
722006.267	4294345.862	8526	20-Dec-13	ALEX122013.SSF	510557.877	28483
722006.381	4294346.126	9331	20-Dec-13	ALEX122013.SSF	510558.765	28484
722006.682	4294346.457	8152	20-Dec-13	ALEX122013.SSF	510559.881	28485
721988.084	4294330.149	7497	20-Dec-13	ALEX122013.SSF	510695.615	28486
721988.085	4294330.129	8084	20-Dec-13	ALEX122013.SSF	510695.929	28487
721988.089	4294330.112	7691	20-Dec-13	ALEX122013.SSF	510696.884	28488
721988.095	4294330.1	7532	20-Dec-13	ALEX122013.SSF	510697.97	28489
721988.098	4294330.097	8153	20-Dec-13	ALEX122013.SSF	510698.823	28490
721988.1	4294330.105	8338	20-Dec-13	ALEX122013.SSF	510699.929	28491
721988.123	4294330.081	8324	20-Dec-13	ALEX122013.SSF	510700.7661	28492
721988.163	4294330.034	8141	20-Dec-13	ALEX122013.SSF	510701.8311	28493
721988.161	4294330.025	7765	20-Dec-13	ALEX122013.SSF	510702.7939	28494
721988.143	4294330.046	8751	20-Dec-13	ALEX122013.SSF	510703.8779	28495
721988.14	4294330.065	7587	20-Dec-13	ALEX122013.SSF	510704.8501	28496
721988.142	4294330.085	8497	20-Dec-13	ALEX122013.SSF	510705.7939	28497
721988.138	4294330.098	8934	20-Dec-13	ALEX122013.SSF	510706.8459	28498
721988.131	4294330.106	7633	20-Dec-13	ALEX122013.SSF	510707.843	28499

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721988.127	4294330.113	7968	20-Dec-13	ALEX122013.SSF	510708.8479	28500
721988.126	4294330.115	7932	20-Dec-13	ALEX122013.SSF	510709.844	28501
721988.112	4294330.124	6453	20-Dec-13	ALEX122013.SSF	510710.8491	28502
721988.103	4294330.149	7043	20-Dec-13	ALEX122013.SSF	510711.8501	28503
721988.106	4294330.166	7601	20-Dec-13	ALEX122013.SSF	510712.856	28504
721988.099	4294330.172	7655	20-Dec-13	ALEX122013.SSF	510713.856	28505
721988.094	4294330.185	8183	20-Dec-13	ALEX122013.SSF	510714.833	28506
721988.106	4294330.2	7506	20-Dec-13	ALEX122013.SSF	510715.896	28507
721988.155	4294330.324	7426	20-Dec-13	ALEX122013.SSF	510716.792	28508
721988.366	4294330.441	6536	20-Dec-13	ALEX122013.SSF	510717.947	28509
721988.309	4294330.406	7214	20-Dec-13	ALEX122013.SSF	510718.7419	28510
721988.112	4294330.334	7923	20-Dec-13	ALEX122013.SSF	510719.855	28511
721988.159	4294330.377	8760	20-Dec-13	ALEX122013.SSF	510720.7639	28512
721988.392	4294330.466	8640	20-Dec-13	ALEX122013.SSF	510721.78	28513
721988.658	4294330.519	7800	20-Dec-13	ALEX122013.SSF	510722.7019	28514
721988.926	4294330.505	7920	20-Dec-13	ALEX122013.SSF	510723.749	28515
721989.047	4294330.736	6960	20-Dec-13	ALEX122013.SSF	510724.6941	28516
721989.049	4294331.003	7260	20-Dec-13	ALEX122013.SSF	510725.8621	28517
721989.121	4294331.175	7485	20-Dec-13	ALEX122013.SSF	510726.7041	28518
721989.306	4294331.463	7931	20-Dec-13	ALEX122013.SSF	510727.769	28519
721989.53	4294331.71	7953	20-Dec-13	ALEX122013.SSF	510728.7371	28520
721989.785	4294331.919	8528	20-Dec-13	ALEX122013.SSF	510729.8779	28521
721990.025	4294332.045	8762	20-Dec-13	ALEX122013.SSF	510730.8081	28522
721990.269	4294332.148	9540	20-Dec-13	ALEX122013.SSF	510731.865	28523
721990.46	4294332.264	7665	20-Dec-13	ALEX122013.SSF	510732.811	28524
721990.801	4294332.431	9116	20-Dec-13	ALEX122013.SSF	510733.8359	28525
721991.088	4294332.621	7919	20-Dec-13	ALEX122013.SSF	510734.7959	28526
721991.318	4294332.773	8040	20-Dec-13	ALEX122013.SSF	510735.8979	28527
721991.512	4294332.842	8340	20-Dec-13	ALEX122013.SSF	510736.8611	28528
721991.816	4294333.006	8115	20-Dec-13	ALEX122013.SSF	510737.9561	28529
721992.16	4294333.15	8598	20-Dec-13	ALEX122013.SSF	510738.8621	28530
721992.6	4294333.462	8749	20-Dec-13	ALEX122013.SSF	510739.947	28531
721992.822	4294333.645	9357	20-Dec-13	ALEX122013.SSF	510740.7939	28532
721993.134	4294333.882	8759	20-Dec-13	ALEX122013.SSF	510741.8689	28533
721993.383	4294334.119	7920	20-Dec-13	ALEX122013.SSF	510742.8091	28534
721993.712	4294334.285	7620	20-Dec-13	ALEX122013.SSF	510743.8831	28535
721993.874	4294334.408	7785	20-Dec-13	ALEX122013.SSF	510744.8049	28536
721994.159	4294334.524	7376	20-Dec-13	ALEX122013.SSF	510745.8899	28537
721994.249	4294334.732	7724	20-Dec-13	ALEX122013.SSF	510746.7791	28538
721994.316	4294334.909	7901	20-Dec-13	ALEX122013.SSF	510747.8621	28539
721994.417	4294335.035	8365	20-Dec-13	ALEX122013.SSF	510748.78	28540
721994.719	4294335.217	8241	20-Dec-13	ALEX122013.SSF	510749.9209	28541
721994.95	4294335.402	8360	20-Dec-13	ALEX122013.SSF	510750.772	28542
721995.173	4294335.631	8960	20-Dec-13	ALEX122013.SSF	510751.7881	28543
721995.357	4294335.93	8330	20-Dec-13	ALEX122013.SSF	510752.7749	28544
721995.574	4294336.187	9522	20-Dec-13	ALEX122013.SSF	510753.8511	28545
721995.781	4294336.404	8260	20-Dec-13	ALEX122013.SSF	510754.7839	28546

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721996.073	4294336.633	8245	20-Dec-13	ALEX122013.SSF	510755.833	28547
721996.277	4294336.883	7551	20-Dec-13	ALEX122013.SSF	510756.792	28548
721996.472	4294337.081	8367	20-Dec-13	ALEX122013.SSF	510757.936	28549
721996.701	4294337.132	8242	20-Dec-13	ALEX122013.SSF	510758.8269	28550
721997.035	4294337.219	9080	20-Dec-13	ALEX122013.SSF	510759.9331	28551
721997.319	4294337.338	9410	20-Dec-13	ALEX122013.SSF	510760.825	28552
721997.728	4294337.5	8772	20-Dec-13	ALEX122013.SSF	510761.9241	28553
721997.949	4294337.597	8673	20-Dec-13	ALEX122013.SSF	510762.8	28554
721998.235	4294337.719	8288	20-Dec-13	ALEX122013.SSF	510763.928	28555
721998.405	4294337.913	7412	20-Dec-13	ALEX122013.SSF	510764.7371	28556
721998.729	4294338.181	8453	20-Dec-13	ALEX122013.SSF	510765.814	28557
721999.003	4294338.485	8593	20-Dec-13	ALEX122013.SSF	510766.7141	28558
721999.379	4294338.787	8028	20-Dec-13	ALEX122013.SSF	510767.8291	28559
721999.621	4294339.104	7677	20-Dec-13	ALEX122013.SSF	510768.7161	28560
721999.964	4294339.406	8009	20-Dec-13	ALEX122013.SSF	510769.8159	28561
722000.216	4294339.712	8482	20-Dec-13	ALEX122013.SSF	510770.7151	28562
722000.508	4294339.904	8600	20-Dec-13	ALEX122013.SSF	510771.8369	28563
722000.758	4294340.133	8630	20-Dec-13	ALEX122013.SSF	510772.7361	28564
722001.161	4294340.473	8457	20-Dec-13	ALEX122013.SSF	510773.8589	28565
722001.424	4294340.777	7814	20-Dec-13	ALEX122013.SSF	510774.751	28566
722001.705	4294341.123	9273	20-Dec-13	ALEX122013.SSF	510775.8711	28567
722001.923	4294341.299	8738	20-Dec-13	ALEX122013.SSF	510776.6931	28568
722002.177	4294341.436	8064	20-Dec-13	ALEX122013.SSF	510777.7991	28569
722002.453	4294341.578	8466	20-Dec-13	ALEX122013.SSF	510778.752	28570
722002.82	4294341.771	9706	20-Dec-13	ALEX122013.SSF	510779.8721	28571
722003.127	4294342.074	8396	20-Dec-13	ALEX122013.SSF	510780.7241	28572
722003.58	4294342.457	7349	20-Dec-13	ALEX122013.SSF	510781.813	28573
722003.913	4294342.569	9067	20-Dec-13	ALEX122013.SSF	510782.801	28574
722004.244	4294342.565	7996	20-Dec-13	ALEX122013.SSF	510783.8	28575
722004.424	4294342.636	8059	20-Dec-13	ALEX122013.SSF	510784.8049	28576
722004.675	4294342.736	7474	20-Dec-13	ALEX122013.SSF	510785.823	28577
722004.962	4294342.998	8738	20-Dec-13	ALEX122013.SSF	510786.822	28578
722005.345	4294343.178	7254	20-Dec-13	ALEX122013.SSF	510787.821	28579
722005.641	4294343.412	8353	20-Dec-13	ALEX122013.SSF	510788.72	28580
722006.035	4294343.541	7638	20-Dec-13	ALEX122013.SSF	510789.8479	28581
722006.31	4294343.696	7159	20-Dec-13	ALEX122013.SSF	510790.7319	28582
722006.599	4294343.955	7879	20-Dec-13	ALEX122013.SSF	510791.833	28583
722006.755	4294344.311	10160	20-Dec-13	ALEX122013.SSF	510792.7339	28584
722006.931	4294344.643	8930	20-Dec-13	ALEX122013.SSF	510793.793	28585
722007.116	4294344.954	8502	20-Dec-13	ALEX122013.SSF	510794.7451	28586
722007.376	4294345.234	9115	20-Dec-13	ALEX122013.SSF	510795.8049	28587
722007.669	4294345.465	8939	20-Dec-13	ALEX122013.SSF	510796.717	28588
722008.055	4294345.59	9074	20-Dec-13	ALEX122013.SSF	510797.812	28589
722008.304	4294345.529	8478	20-Dec-13	ALEX122013.SSF	510798.6731	28590
722008.459	4294345.362	8389	20-Dec-13	ALEX122013.SSF	510799.7771	28591
722008.447	4294345.266	8667	20-Dec-13	ALEX122013.SSF	510800.7881	28592
722008.27	4294345.389	8257	20-Dec-13	ALEX122013.SSF	510801.863	28593

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722008.373	4294345.449	8304	20-Dec-13	ALEX122013.SSF	510802.751	28594
722008.702	4294345.55	7986	20-Dec-13	ALEX122013.SSF	510803.8269	28595
722008.979	4294345.603	8176	20-Dec-13	ALEX122013.SSF	510804.8601	28596
722009.222	4294345.67	8464	20-Dec-13	ALEX122013.SSF	510805.8921	28597
722009.315	4294345.791	8566	20-Dec-13	ALEX122013.SSF	510806.7009	28598
722009.456	4294345.904	8471	20-Dec-13	ALEX122013.SSF	510807.7471	28599
722009.53	4294346.005	8838	20-Dec-13	ALEX122013.SSF	510808.7041	28600
722009.661	4294346.058	9199	20-Dec-13	ALEX122013.SSF	510809.7739	28601
722009.663	4294346.199	8329	20-Dec-13	ALEX122013.SSF	510810.834	28602
722009.498	4294346.374	9552	20-Dec-13	ALEX122013.SSF	510811.802	28603
722009.516	4294346.25	9438	20-Dec-13	ALEX122013.SSF	510812.7151	28604
722010.008	4294345.83	8779	20-Dec-13	ALEX122013.SSF	510813.834	28605
722010.642	4294345.457	8314	20-Dec-13	ALEX122013.SSF	510814.8411	28606
722010.87	4294345.278	8408	20-Dec-13	ALEX122013.SSF	510815.791	28607
722010.614	4294345.438	7922	20-Dec-13	ALEX122013.SSF	510816.676	28608
722009.989	4294346.05	7680	20-Dec-13	ALEX122013.SSF	510817.8069	28609
722009.773	4294346.199	9030	20-Dec-13	ALEX122013.SSF	510818.678	28610
722009.938	4294346.297	9247	20-Dec-13	ALEX122013.SSF	510819.8411	28611
722010.256	4294346.244	9002	20-Dec-13	ALEX122013.SSF	510820.6641	28612
722010.46	4294346.058	8880	20-Dec-13	ALEX122013.SSF	510821.7319	28613
722010.328	4294346.01	8220	20-Dec-13	ALEX122013.SSF	510822.7129	28614
722010.136	4294346.022	8355	20-Dec-13	ALEX122013.SSF	510823.814	28615
722009.962	4294345.967	9348	20-Dec-13	ALEX122013.SSF	510824.676	28616
722009.687	4294345.707	8817	20-Dec-13	ALEX122013.SSF	510825.8799	28617
722009.461	4294345.535	8654	20-Dec-13	ALEX122013.SSF	510826.728	28618
722009.192	4294345.224	8343	20-Dec-13	ALEX122013.SSF	510827.7949	28619
722008.951	4294344.997	8385	20-Dec-13	ALEX122013.SSF	510828.8191	28620
722008.741	4294344.768	9656	20-Dec-13	ALEX122013.SSF	510829.7981	28621
722008.497	4294344.634	9194	20-Dec-13	ALEX122013.SSF	510830.75	28622
722008.219	4294344.339	8658	20-Dec-13	ALEX122013.SSF	510831.8701	28623
722007.921	4294344.127	8524	20-Dec-13	ALEX122013.SSF	510832.7549	28624
722007.494	4294343.748	8341	20-Dec-13	ALEX122013.SSF	510833.853	28625
722007.227	4294343.439	8775	20-Dec-13	ALEX122013.SSF	510834.7661	28626
722007.057	4294343.063	8763	20-Dec-13	ALEX122013.SSF	510835.8091	28627
722006.902	4294342.781	8671	20-Dec-13	ALEX122013.SSF	510836.7161	28628
722006.778	4294342.486	8797	20-Dec-13	ALEX122013.SSF	510837.7791	28629
722006.703	4294342.178	8649	20-Dec-13	ALEX122013.SSF	510838.7371	28630
722006.532	4294341.797	7592	20-Dec-13	ALEX122013.SSF	510839.8091	28631
722006.316	4294341.543	9128	20-Dec-13	ALEX122013.SSF	510840.793	28632
722006.054	4294341.26	9152	20-Dec-13	ALEX122013.SSF	510841.8821	28633
722005.766	4294341.102	8648	20-Dec-13	ALEX122013.SSF	510842.759	28634
722005.477	4294340.877	7382	20-Dec-13	ALEX122013.SSF	510843.834	28635
722005.19	4294340.756	8175	20-Dec-13	ALEX122013.SSF	510844.7339	28636
722004.829	4294340.525	8163	20-Dec-13	ALEX122013.SSF	510845.855	28637
722004.524	4294340.435	9031	20-Dec-13	ALEX122013.SSF	510846.759	28638
722004.137	4294340.34	7717	20-Dec-13	ALEX122013.SSF	510847.8379	28639
722003.892	4294340.207	7419	20-Dec-13	ALEX122013.SSF	510848.7229	28640

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722003.606	4294340.004	9265	20-Dec-13	ALEX122013.SSF	510849.7981	28641
722003.252	4294339.933	9366	20-Dec-13	ALEX122013.SSF	510850.752	28642
722002.809	4294339.829	9331	20-Dec-13	ALEX122013.SSF	510851.905	28643
722002.669	4294339.607	8512	20-Dec-13	ALEX122013.SSF	510852.7771	28644
722002.439	4294339.325	9028	20-Dec-13	ALEX122013.SSF	510853.8459	28645
722002.242	4294339.109	8294	20-Dec-13	ALEX122013.SSF	510854.72	28646
722001.957	4294338.964	8206	20-Dec-13	ALEX122013.SSF	510855.802	28647
722001.775	4294338.841	8591	20-Dec-13	ALEX122013.SSF	510856.791	28648
722001.575	4294338.703	7848	20-Dec-13	ALEX122013.SSF	510857.8669	28649
722001.414	4294338.521	8202	20-Dec-13	ALEX122013.SSF	510858.7329	28650
722001.128	4294338.267	7600	20-Dec-13	ALEX122013.SSF	510859.8069	28651
722000.882	4294337.96	7870	20-Dec-13	ALEX122013.SSF	510860.7361	28652
722000.594	4294337.674	8177	20-Dec-13	ALEX122013.SSF	510861.801	28653
722000.33	4294337.369	7144	20-Dec-13	ALEX122013.SSF	510862.7681	28654
722000.031	4294337.08	7876	20-Dec-13	ALEX122013.SSF	510863.833	28655
721999.823	4294336.782	8989	20-Dec-13	ALEX122013.SSF	510864.7319	28656
721999.511	4294336.506	8457	20-Dec-13	ALEX122013.SSF	510865.7981	28657
721999.289	4294336.271	8834	20-Dec-13	ALEX122013.SSF	510866.7161	28658
721999.062	4294336.103	8028	20-Dec-13	ALEX122013.SSF	510867.873	28659
721998.867	4294335.945	8817	20-Dec-13	ALEX122013.SSF	510868.7949	28660
721998.609	4294335.81	8444	20-Dec-13	ALEX122013.SSF	510869.8359	28661
721998.409	4294335.606	8321	20-Dec-13	ALEX122013.SSF	510870.8101	28662
721998.181	4294335.49	8050	20-Dec-13	ALEX122013.SSF	510871.8899	28663
721998.028	4294335.308	7802	20-Dec-13	ALEX122013.SSF	510872.741	28664
721997.832	4294335.07	8550	20-Dec-13	ALEX122013.SSF	510873.8301	28665
721997.624	4294334.912	8917	20-Dec-13	ALEX122013.SSF	510874.812	28666
721997.34	4294334.857	9789	20-Dec-13	ALEX122013.SSF	510875.7881	28667
721997	4294334.754	9947	20-Dec-13	ALEX122013.SSF	510876.7539	28668
721996.69	4294334.53	9056	20-Dec-13	ALEX122013.SSF	510877.791	28669
721996.494	4294334.422	8624	20-Dec-13	ALEX122013.SSF	510878.793	28670
721996.201	4294334.367	7976	20-Dec-13	ALEX122013.SSF	510879.8621	28671
721995.858	4294334.214	8414	20-Dec-13	ALEX122013.SSF	510880.708	28672
721995.42	4294334.032	9183	20-Dec-13	ALEX122013.SSF	510881.823	28673
721995.082	4294333.804	8235	20-Dec-13	ALEX122013.SSF	510882.709	28674
721994.646	4294333.58	8658	20-Dec-13	ALEX122013.SSF	510883.75	28675
721994.423	4294333.211	7954	20-Dec-13	ALEX122013.SSF	510884.717	28676
721994.277	4294332.757	9368	20-Dec-13	ALEX122013.SSF	510885.8459	28677
721994.107	4294332.48	8252	20-Dec-13	ALEX122013.SSF	510886.709	28678
721993.982	4294332.298	8633	20-Dec-13	ALEX122013.SSF	510887.8301	28679
721993.875	4294332.165	8278	20-Dec-13	ALEX122013.SSF	510888.7029	28680
721993.692	4294331.946	8669	20-Dec-13	ALEX122013.SSF	510889.8191	28681
721993.546	4294331.702	7687	20-Dec-13	ALEX122013.SSF	510890.687	28682
721993.365	4294331.432	7621	20-Dec-13	ALEX122013.SSF	510891.801	28683
721993.234	4294331.324	7725	20-Dec-13	ALEX122013.SSF	510892.7119	28684
721993.087	4294331.278	7511	20-Dec-13	ALEX122013.SSF	510893.835	28685
721993.012	4294331.304	8328	20-Dec-13	ALEX122013.SSF	510894.7759	28686
721992.94	4294331.37	8292	20-Dec-13	ALEX122013.SSF	510895.7	28687

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721992.905	4294331.314	7473	20-Dec-13	ALEX122013.SSF	510896.707	28688
721992.727	4294331.235	8708	20-Dec-13	ALEX122013.SSF	510897.6931	28689
721992.389	4294331.069	8567	20-Dec-13	ALEX122013.SSF	510898.698	28690
721991.993	4294330.969	7511	20-Dec-13	ALEX122013.SSF	510899.7939	28691
721991.782	4294330.805	7368	20-Dec-13	ALEX122013.SSF	510900.6799	28692
721991.623	4294330.614	8502	20-Dec-13	ALEX122013.SSF	510901.7219	28693
721991.527	4294330.387	7915	20-Dec-13	ALEX122013.SSF	510902.6311	28694
721991.215	4294330.275	7979	20-Dec-13	ALEX122013.SSF	510903.7771	28695
721990.902	4294330.279	8474	20-Dec-13	ALEX122013.SSF	510904.6221	28696
721990.601	4294330.255	8208	20-Dec-13	ALEX122013.SSF	510905.6731	28697
721990.311	4294330.157	8232	20-Dec-13	ALEX122013.SSF	510906.6379	28698
721989.94	4294329.988	7428	20-Dec-13	ALEX122013.SSF	510907.7371	28699
721989.661	4294329.927	7737	20-Dec-13	ALEX122013.SSF	510908.6289	28700
721989.477	4294329.908	8114	20-Dec-13	ALEX122013.SSF	510909.6799	28701
721989.324	4294329.919	8958	20-Dec-13	ALEX122013.SSF	510910.707	28702
721989.219	4294329.899	8359	20-Dec-13	ALEX122013.SSF	510911.7771	28703
721989.103	4294329.921	8149	20-Dec-13	ALEX122013.SSF	510912.6431	28704
721988.831	4294330.034	7287	20-Dec-13	ALEX122013.SSF	510913.751	28705
721988.827	4294329.854	7942	20-Dec-13	ALEX122013.SSF	510914.7319	28706
721989.009	4294329.434	7865	20-Dec-13	ALEX122013.SSF	510915.699	28707
721989.16	4294329.099	8056	20-Dec-13	ALEX122013.SSF	510916.627	28708
721989.202	4294328.952	7624	20-Dec-13	ALEX122013.SSF	510917.7361	28709
721989.222	4294328.941	7726	20-Dec-13	ALEX122013.SSF	510918.667	28710
721989.516	4294328.879	9221	20-Dec-13	ALEX122013.SSF	510919.7439	28711
721989.877	4294328.793	8215	20-Dec-13	ALEX122013.SSF	510920.7041	28712
721990.049	4294328.728	8894	20-Dec-13	ALEX122013.SSF	510921.7949	28713
721989.745	4294328.688	7323	20-Dec-13	ALEX122013.SSF	510922.76	28714
721989.241	4294328.632	8220	20-Dec-13	ALEX122013.SSF	510923.8269	28715
721989.221	4294328.663	9375	20-Dec-13	ALEX122013.SSF	510924.7009	28716
721989.329	4294328.791	8163	20-Dec-13	ALEX122013.SSF	510925.7949	28717
721989.36	4294328.866	8941	20-Dec-13	ALEX122013.SSF	510926.7771	28718
721989.415	4294328.85	8355	20-Dec-13	ALEX122013.SSF	510927.7729	28719
721989.443	4294328.811	8598	20-Dec-13	ALEX122013.SSF	510928.729	28720
721989.455	4294328.771	9379	20-Dec-13	ALEX122013.SSF	510929.8491	28721
721989.459	4294328.749	8735	20-Dec-13	ALEX122013.SSF	510930.6631	28722
721989.474	4294328.723	8483	20-Dec-13	ALEX122013.SSF	510931.927	28723
721989.487	4294328.711	8631	20-Dec-13	ALEX122013.SSF	510932.8779	28724
721989.506	4294328.707	7437	20-Dec-13	ALEX122013.SSF	510933.7991	28725
721989.514	4294328.7	9329	20-Dec-13	ALEX122013.SSF	510934.7129	28726
721989.509	4294328.682	9052	20-Dec-13	ALEX122013.SSF	510935.8159	28727
721989.511	4294328.669	8623	20-Dec-13	ALEX122013.SSF	510936.7151	28728
721989.518	4294328.668	8635	20-Dec-13	ALEX122013.SSF	510937.751	28729
721989.525	4294328.673	8217	20-Dec-13	ALEX122013.SSF	510938.771	28730
721989.521	4294328.665	7927	20-Dec-13	ALEX122013.SSF	510939.7981	28731
721989.522	4294328.659	8311	20-Dec-13	ALEX122013.SSF	510940.7361	28732
721989.504	4294328.68	9217	20-Dec-13	ALEX122013.SSF	510941.8279	28733
721989.515	4294328.75	8034	20-Dec-13	ALEX122013.SSF	510942.696	28734

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721989.613	4294328.899	8308	20-Dec-13	ALEX122013.SSF	510943.875	28735
721989.642	4294328.861	7327	20-Dec-13	ALEX122013.SSF	510944.74	28736
721989.626	4294329.023	7261	20-Dec-13	ALEX122013.SSF	510945.793	28737
721989.718	4294328.945	8985	20-Dec-13	ALEX122013.SSF	510946.7329	28738
721989.848	4294328.764	9086	20-Dec-13	ALEX122013.SSF	510947.7959	28739
721989.95	4294328.662	8481	20-Dec-13	ALEX122013.SSF	510948.728	28740
721989.944	4294328.697	7820	20-Dec-13	ALEX122013.SSF	510949.811	28741
721989.952	4294328.845	7835	20-Dec-13	ALEX122013.SSF	510950.698	28742
721990.051	4294329.051	7958	20-Dec-13	ALEX122013.SSF	510951.78	28743
721990.286	4294329.152	8379	20-Dec-13	ALEX122013.SSF	510952.7351	28744
721990.635	4294329.318	7885	20-Dec-13	ALEX122013.SSF	510953.8059	28745
721990.967	4294329.348	9321	20-Dec-13	ALEX122013.SSF	510954.6941	28746
721991.291	4294329.49	8810	20-Dec-13	ALEX122013.SSF	510955.832	28747
721991.549	4294329.593	8742	20-Dec-13	ALEX122013.SSF	510956.7361	28748
721991.856	4294329.808	8185	20-Dec-13	ALEX122013.SSF	510957.7419	28749
721992.143	4294329.94	8196	20-Dec-13	ALEX122013.SSF	510958.6819	28750
721992.48	4294330.222	7419	20-Dec-13	ALEX122013.SSF	510959.8049	28751
721992.79	4294330.362	8274	20-Dec-13	ALEX122013.SSF	510960.6941	28752
721993.175	4294330.596	8488	20-Dec-13	ALEX122013.SSF	510961.7839	28753
721993.486	4294330.721	8392	20-Dec-13	ALEX122013.SSF	510962.707	28754
721993.829	4294330.88	8158	20-Dec-13	ALEX122013.SSF	510963.7429	28755
721994.065	4294331.082	7649	20-Dec-13	ALEX122013.SSF	510964.7429	28756
721994.318	4294331.336	8302	20-Dec-13	ALEX122013.SSF	510965.709	28757
721994.528	4294331.587	8255	20-Dec-13	ALEX122013.SSF	510966.6699	28758
721994.729	4294331.862	8813	20-Dec-13	ALEX122013.SSF	510967.7759	28759
721994.869	4294332.121	7903	20-Dec-13	ALEX122013.SSF	510968.6809	28760
721995.071	4294332.443	9116	20-Dec-13	ALEX122013.SSF	510969.7671	28761
721995.189	4294332.689	7829	20-Dec-13	ALEX122013.SSF	510970.666	28762
721995.329	4294332.918	7717	20-Dec-13	ALEX122013.SSF	510971.7251	28763
721995.494	4294333.199	7059	20-Dec-13	ALEX122013.SSF	510972.666	28764
721995.758	4294333.536	8754	20-Dec-13	ALEX122013.SSF	510973.6931	28765
721996.02	4294333.936	7798	20-Dec-13	ALEX122013.SSF	510974.6689	28766
721996.325	4294334.264	8279	20-Dec-13	ALEX122013.SSF	510975.7949	28767
721996.533	4294334.502	8100	20-Dec-13	ALEX122013.SSF	510976.6841	28768
721996.885	4294334.727	8175	20-Dec-13	ALEX122013.SSF	510977.7629	28769
721997.238	4294334.88	8403	20-Dec-13	ALEX122013.SSF	510978.72	28770
721997.453	4294335.005	8580	20-Dec-13	ALEX122013.SSF	510979.7261	28771
721997.639	4294335.047	9375	20-Dec-13	ALEX122013.SSF	510980.707	28772
721997.92	4294335.111	8523	20-Dec-13	ALEX122013.SSF	510981.7881	28773
721998.168	4294335.193	8311	20-Dec-13	ALEX122013.SSF	510982.698	28774
721998.387	4294335.331	8977	20-Dec-13	ALEX122013.SSF	510983.8069	28775
721998.599	4294335.48	8724	20-Dec-13	ALEX122013.SSF	510984.7051	28776
721998.896	4294335.753	8241	20-Dec-13	ALEX122013.SSF	510985.8081	28777
721999.142	4294335.923	7850	20-Dec-13	ALEX122013.SSF	510986.6941	28778
721999.416	4294336.102	7752	20-Dec-13	ALEX122013.SSF	510987.73	28779
721999.661	4294336.35	7878	20-Dec-13	ALEX122013.SSF	510988.6521	28780
721999.91	4294336.716	8359	20-Dec-13	ALEX122013.SSF	510989.752	28781

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722000.195	4294336.961	7999	20-Dec-13	ALEX122013.SSF	510990.6951	28782
722000.565	4294337.195	7910	20-Dec-13	ALEX122013.SSF	510991.7529	28783
722000.922	4294337.37	8427	20-Dec-13	ALEX122013.SSF	510992.698	28784
722001.315	4294337.494	8257	20-Dec-13	ALEX122013.SSF	510993.78	28785
722001.609	4294337.69	7854	20-Dec-13	ALEX122013.SSF	510994.678	28786
722001.906	4294337.873	7963	20-Dec-13	ALEX122013.SSF	510995.708	28787
722002.168	4294338.065	8921	20-Dec-13	ALEX122013.SSF	510996.626	28788
722002.536	4294338.195	8980	20-Dec-13	ALEX122013.SSF	510997.7029	28789
722002.878	4294338.32	8215	20-Dec-13	ALEX122013.SSF	510998.687	28790
722003.261	4294338.447	7873	20-Dec-13	ALEX122013.SSF	510999.781	28791
722003.55	4294338.643	8298	20-Dec-13	ALEX122013.SSF	511000.707	28792
722003.882	4294338.734	8734	20-Dec-13	ALEX122013.SSF	511001.7261	28793
722004.197	4294338.803	7823	20-Dec-13	ALEX122013.SSF	511002.6731	28794
722004.514	4294338.967	9546	20-Dec-13	ALEX122013.SSF	511003.738	28795
722004.791	4294339.202	8146	20-Dec-13	ALEX122013.SSF	511004.6709	28796
722005.114	4294339.448	8666	20-Dec-13	ALEX122013.SSF	511005.6951	28797
722005.372	4294339.698	7926	20-Dec-13	ALEX122013.SSF	511006.6509	28798
722005.586	4294339.964	7741	20-Dec-13	ALEX122013.SSF	511007.7009	28799
722005.773	4294340.245	8025	20-Dec-13	ALEX122013.SSF	511008.6541	28800
722006.055	4294340.459	8096	20-Dec-13	ALEX122013.SSF	511009.729	28801
722006.288	4294340.691	8624	20-Dec-13	ALEX122013.SSF	511010.7061	28802
722006.454	4294340.957	8456	20-Dec-13	ALEX122013.SSF	511011.7939	28803
722006.631	4294341.258	8474	20-Dec-13	ALEX122013.SSF	511012.6941	28804
722006.958	4294341.477	8868	20-Dec-13	ALEX122013.SSF	511013.6951	28805
722007.336	4294341.693	7917	20-Dec-13	ALEX122013.SSF	511014.6609	28806
722007.621	4294341.886	7799	20-Dec-13	ALEX122013.SSF	511015.7109	28807
722007.788	4294342.074	8399	20-Dec-13	ALEX122013.SSF	511016.5911	28808
722008.032	4294342.323	7920	20-Dec-13	ALEX122013.SSF	511017.7649	28809
722008.291	4294342.53	7410	20-Dec-13	ALEX122013.SSF	511018.6411	28810
722008.62	4294342.672	7912	20-Dec-13	ALEX122013.SSF	511019.741	28811
722008.892	4294342.874	8278	20-Dec-13	ALEX122013.SSF	511020.6831	28812
722009.273	4294343.005	7799	20-Dec-13	ALEX122013.SSF	511021.7649	28813
722009.634	4294343.169	8460	20-Dec-13	ALEX122013.SSF	511022.7251	28814
722010.007	4294343.44	8115	20-Dec-13	ALEX122013.SSF	511023.7791	28815
722010.297	4294343.784	7848	20-Dec-13	ALEX122013.SSF	511024.7261	28816
722010.619	4294343.916	9072	20-Dec-13	ALEX122013.SSF	511025.7839	28817
722010.93	4294344.065	8748	20-Dec-13	ALEX122013.SSF	511026.73	28818
722011.273	4294344.289	8187	20-Dec-13	ALEX122013.SSF	511027.803	28819
722011.439	4294344.482	8226	20-Dec-13	ALEX122013.SSF	511028.6731	28820
722011.473	4294344.69	7996	20-Dec-13	ALEX122013.SSF	511029.7759	28821
722011.516	4294344.737	7969	20-Dec-13	ALEX122013.SSF	511030.6641	28822
722011.372	4294344.832	8292	20-Dec-13	ALEX122013.SSF	511031.759	28823
722011.115	4294344.929	8253	20-Dec-13	ALEX122013.SSF	511032.6609	28824
722010.944	4294344.764	8963	20-Dec-13	ALEX122013.SSF	511033.6899	28825
722011.152	4294344.396	7940	20-Dec-13	ALEX122013.SSF	511034.6399	28826
722011.875	4294344.064	7955	20-Dec-13	ALEX122013.SSF	511035.6951	28827
722012.349	4294343.989	8498	20-Dec-13	ALEX122013.SSF	511036.6479	28828

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722012.271	4294344.099	7644	20-Dec-13	ALEX122013.SSF	511037.7119	28829
722012.231	4294344.374	7941	20-Dec-13	ALEX122013.SSF	511038.6709	28830
722012.328	4294344.334	8885	20-Dec-13	ALEX122013.SSF	511039.7251	28831
722012.323	4294344.431	8731	20-Dec-13	ALEX122013.SSF	511040.5769	28832
722012.28	4294344.703	8602	20-Dec-13	ALEX122013.SSF	511041.679	28833
722012.237	4294344.799	8270	20-Dec-13	ALEX122013.SSF	511042.623	28834
722012.173	4294344.776	9057	20-Dec-13	ALEX122013.SSF	511043.7109	28835
722011.957	4294344.774	8414	20-Dec-13	ALEX122013.SSF	511044.668	28836
722011.668	4294344.583	8823	20-Dec-13	ALEX122013.SSF	511045.678	28837
722011.385	4294344.282	9285	20-Dec-13	ALEX122013.SSF	511046.615	28838
722011.056	4294343.932	9401	20-Dec-13	ALEX122013.SSF	511047.6731	28839
722010.889	4294343.6	8770	20-Dec-13	ALEX122013.SSF	511048.6479	28840
722010.816	4294343.251	8582	20-Dec-13	ALEX122013.SSF	511049.7141	28841
722010.755	4294342.988	10395	20-Dec-13	ALEX122013.SSF	511050.6121	28842
722010.596	4294342.778	8268	20-Dec-13	ALEX122013.SSF	511051.7	28843
722010.475	4294342.69	8007	20-Dec-13	ALEX122013.SSF	511052.6379	28844
722010.54	4294342.664	9022	20-Dec-13	ALEX122013.SSF	511053.7429	28845
722010.614	4294342.739	8945	20-Dec-13	ALEX122013.SSF	511054.6001	28846
722010.535	4294342.895	9136	20-Dec-13	ALEX122013.SSF	511055.73	28847
722010.432	4294342.964	9184	20-Dec-13	ALEX122013.SSF	511056.6279	28848
722010.323	4294342.874	9286	20-Dec-13	ALEX122013.SSF	511057.7329	28849
722010.304	4294342.683	9011	20-Dec-13	ALEX122013.SSF	511058.7339	28850
722010.164	4294342.519	8163	20-Dec-13	ALEX122013.SSF	511059.7339	28851
722009.877	4294342.362	8310	20-Dec-13	ALEX122013.SSF	511060.6411	28852
722009.532	4294342.183	9367	20-Dec-13	ALEX122013.SSF	511061.7271	28853
722009.253	4294341.992	9122	20-Dec-13	ALEX122013.SSF	511062.6909	28854
722009.004	4294341.804	8610	20-Dec-13	ALEX122013.SSF	511063.6919	28855
722008.764	4294341.705	8002	20-Dec-13	ALEX122013.SSF	511064.658	28856
722008.476	4294341.585	8030	20-Dec-13	ALEX122013.SSF	511065.646	28857
722008.167	4294341.39	8037	20-Dec-13	ALEX122013.SSF	511066.6201	28858
722007.876	4294341.153	8219	20-Dec-13	ALEX122013.SSF	511067.6699	28859
722007.637	4294340.951	8445	20-Dec-13	ALEX122013.SSF	511068.6521	28860
722007.417	4294340.653	8321	20-Dec-13	ALEX122013.SSF	511069.7	28861
722007.148	4294340.384	8500	20-Dec-13	ALEX122013.SSF	511070.6899	28862
722006.857	4294340.131	7705	20-Dec-13	ALEX122013.SSF	511071.7461	28863
722006.567	4294339.877	8586	20-Dec-13	ALEX122013.SSF	511072.6931	28864
722006.206	4294339.629	7696	20-Dec-13	ALEX122013.SSF	511073.7141	28865
722005.876	4294339.399	8884	20-Dec-13	ALEX122013.SSF	511074.6589	28866
722005.566	4294339.119	8641	20-Dec-13	ALEX122013.SSF	511075.7151	28867
722005.29	4294338.906	8910	20-Dec-13	ALEX122013.SSF	511076.6609	28868
722005.017	4294338.702	8287	20-Dec-13	ALEX122013.SSF	511077.7461	28869
722004.785	4294338.606	7772	20-Dec-13	ALEX122013.SSF	511078.6631	28870
722004.582	4294338.448	7793	20-Dec-13	ALEX122013.SSF	511079.6641	28871
722004.379	4294338.17	9268	20-Dec-13	ALEX122013.SSF	511080.718	28872
722004.273	4294337.841	7897	20-Dec-13	ALEX122013.SSF	511081.699	28873
722004.155	4294337.566	8634	20-Dec-13	ALEX122013.SSF	511082.688	28874
722003.946	4294337.298	8218	20-Dec-13	ALEX122013.SSF	511083.73	28875

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722003.425	4294336.728	7571	20-Dec-13	ALEX122013.SSF	511085.6841	28877
722003.192	4294336.465	8402	20-Dec-13	ALEX122013.SSF	511086.636	28878
722002.888	4294336.186	8820	20-Dec-13	ALEX122013.SSF	511087.6899	28879
722002.588	4294335.996	9015	20-Dec-13	ALEX122013.SSF	511088.614	28880
722002.324	4294335.76	9513	20-Dec-13	ALEX122013.SSF	511089.6499	28881
722002.157	4294335.558	8048	20-Dec-13	ALEX122013.SSF	511090.6001	28882
722001.972	4294335.335	8672	20-Dec-13	ALEX122013.SSF	511091.6899	28883
722001.687	4294335.202	9098	20-Dec-13	ALEX122013.SSF	511092.5859	28884
722001.222	4294334.915	7614	20-Dec-13	ALEX122013.SSF	511093.688	28885
722000.85	4294334.706	8413	20-Dec-13	ALEX122013.SSF	511094.623	28886
722000.485	4294334.569	8463	20-Dec-13	ALEX122013.SSF	511095.7041	28887
722000.125	4294334.418	8955	20-Dec-13	ALEX122013.SSF	511096.6521	28888
721999.638	4294334.127	7968	20-Dec-13	ALEX122013.SSF	511097.7439	28889
721999.326	4294333.947	9252	20-Dec-13	ALEX122013.SSF	511098.6819	28890
721998.991	4294333.849	8643	20-Dec-13	ALEX122013.SSF	511099.7271	28891
721998.726	4294333.806	8340	20-Dec-13	ALEX122013.SSF	511100.6489	28892
721998.467	4294333.721	8535	20-Dec-13	ALEX122013.SSF	511101.719	28893
721998.19	4294333.568	8343	20-Dec-13	ALEX122013.SSF	511102.6851	28894
721997.88	4294333.404	7786	20-Dec-13	ALEX122013.SSF	511103.7661	28895
721997.697	4294333.304	8966	20-Dec-13	ALEX122013.SSF	511104.6431	28896
721997.452	4294333.213	7551	20-Dec-13	ALEX122013.SSF	511105.688	28897
721997.251	4294333.105	9718	20-Dec-13	ALEX122013.SSF	511106.627	28898
721996.989	4294332.984	8579	20-Dec-13	ALEX122013.SSF	511107.6941	28899
721996.793	4294332.834	8115	20-Dec-13	ALEX122013.SSF	511108.646	28900
721996.653	4294332.656	7728	20-Dec-13	ALEX122013.SSF	511109.7319	28901
721996.574	4294332.51	8592	20-Dec-13	ALEX122013.SSF	511110.573	28902
721996.367	4294332.221	9138	20-Dec-13	ALEX122013.SSF	511111.7209	28903
721996.129	4294332.002	9004	20-Dec-13	ALEX122013.SSF	511112.6221	28904
721995.778	4294331.842	8521	20-Dec-13	ALEX122013.SSF	511113.7029	28905
721995.5	4294331.739	8040	20-Dec-13	ALEX122013.SSF	511114.593	28906
721995.184	4294331.547	8370	20-Dec-13	ALEX122013.SSF	511115.6909	28907
721994.929	4294331.345	7342	20-Dec-13	ALEX122013.SSF	511116.6809	28908
721994.697	4294331.172	8045	20-Dec-13	ALEX122013.SSF	511117.6799	28909
721994.487	4294331.004	7891	20-Dec-13	ALEX122013.SSF	511118.582	28910
721994.198	4294330.818	8782	20-Dec-13	ALEX122013.SSF	511119.7061	28911
721993.967	4294330.645	7655	20-Dec-13	ALEX122013.SSF	511120.6851	28912
721993.698	4294330.482	8244	20-Dec-13	ALEX122013.SSF	511121.6699	28913
721993.458	4294330.344	8661	20-Dec-13	ALEX122013.SSF	511122.624	28914
721993.197	4294330.153	8555	20-Dec-13	ALEX122013.SSF	511123.6951	28915
721992.84	4294329.996	8138	20-Dec-13	ALEX122013.SSF	511124.665	28916
721992.43	4294329.826	7614	20-Dec-13	ALEX122013.SSF	511125.717	28917
721992.163	4294329.665	8083	20-Dec-13	ALEX122013.SSF	511126.6001	28918
721991.881	4294329.418	8561	20-Dec-13	ALEX122013.SSF	511127.6509	28919
721991.632	4294329.262	7930	20-Dec-13	ALEX122013.SSF	511128.6321	28920
721991.382	4294329.127	8252	20-Dec-13	ALEX122013.SSF	511129.7129	28921
721991.146	4294329.05	8693	20-Dec-13	ALEX122013.SSF	511130.595	28922

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721990.889	4294328.91	7783	20-Dec-13	ALEX122013.SSF	511131.6589	28923
721990.799	4294328.725	7616	20-Dec-13	ALEX122013.SSF	511132.6421	28924
721990.699	4294328.661	8864	20-Dec-13	ALEX122013.SSF	511133.6731	28925
721990.665	4294328.603	9086	20-Dec-13	ALEX122013.SSF	511134.655	28926
721990.625	4294328.46	9261	20-Dec-13	ALEX122013.SSF	511135.6819	28927
721990.427	4294328.359	8315	20-Dec-13	ALEX122013.SSF	511136.573	28928
721990.321	4294328.278	8018	20-Dec-13	ALEX122013.SSF	511137.665	28929
721990.321	4294328.105	8754	20-Dec-13	ALEX122013.SSF	511138.6289	28930
721990.457	4294327.761	7918	20-Dec-13	ALEX122013.SSF	511139.7019	28931
721990.883	4294327.558	7799	20-Dec-13	ALEX122013.SSF	511140.635	28932
721991.211	4294327.493	8280	20-Dec-13	ALEX122013.SSF	511141.678	28933
721991.069	4294327.654	8670	20-Dec-13	ALEX122013.SSF	511142.6289	28934
721990.666	4294327.838	8287	20-Dec-13	ALEX122013.SSF	511143.7029	28935
721990.602	4294327.804	7951	20-Dec-13	ALEX122013.SSF	511144.6499	28936
721990.72	4294327.706	7777	20-Dec-13	ALEX122013.SSF	511145.7051	28937
721990.728	4294327.645	8424	20-Dec-13	ALEX122013.SSF	511146.6641	28938
721990.801	4294327.595	9336	20-Dec-13	ALEX122013.SSF	511147.729	28939
721991	4294327.597	8484	20-Dec-13	ALEX122013.SSF	511148.5879	28940
721991.318	4294327.725	9351	20-Dec-13	ALEX122013.SSF	511149.699	28941
721991.41	4294327.855	9087	20-Dec-13	ALEX122013.SSF	511150.7129	28942
721991.48	4294327.846	8332	20-Dec-13	ALEX122013.SSF	511151.74	28943
721991.613	4294327.879	8713	20-Dec-13	ALEX122013.SSF	511152.6201	28944
721991.726	4294327.989	8478	20-Dec-13	ALEX122013.SSF	511153.738	28945
721991.733	4294328.02	7879	20-Dec-13	ALEX122013.SSF	511154.5991	28946
721991.785	4294327.976	8719	20-Dec-13	ALEX122013.SSF	511155.7129	28947
721991.928	4294327.998	8030	20-Dec-13	ALEX122013.SSF	511156.585	28948
721992.154	4294328.199	8277	20-Dec-13	ALEX122013.SSF	511157.6699	28949
721992.463	4294328.441	8519	20-Dec-13	ALEX122013.SSF	511158.6709	28950
721992.855	4294328.746	9660	20-Dec-13	ALEX122013.SSF	511159.752	28951
721993.153	4294328.82	8115	20-Dec-13	ALEX122013.SSF	511160.5901	28952
721993.46	4294328.948	8358	20-Dec-13	ALEX122013.SSF	511161.6431	28953
721993.725	4294329.064	7939	20-Dec-13	ALEX122013.SSF	511162.6489	28954
721993.999	4294329.228	7954	20-Dec-13	ALEX122013.SSF	511163.6851	28955
721994.274	4294329.331	7808	20-Dec-13	ALEX122013.SSF	511164.6431	28956
721994.531	4294329.494	7952	20-Dec-13	ALEX122013.SSF	511165.6431	28957
721994.74	4294329.681	7568	20-Dec-13	ALEX122013.SSF	511166.532	28958
721995.068	4294329.939	8702	20-Dec-13	ALEX122013.SSF	511167.6599	28959
721995.334	4294330.2	7545	20-Dec-13	ALEX122013.SSF	511168.5569	28960
721995.64	4294330.6	8186	20-Dec-13	ALEX122013.SSF	511169.667	28961
721995.894	4294330.91	8346	20-Dec-13	ALEX122013.SSF	511170.616	28962
721996.118	4294331.154	8326	20-Dec-13	ALEX122013.SSF	511171.616	28963
721996.325	4294331.356	9041	20-Dec-13	ALEX122013.SSF	511172.6101	28964
721996.504	4294331.582	8470	20-Dec-13	ALEX122013.SSF	511173.7	28965
721996.672	4294331.796	9137	20-Dec-13	ALEX122013.SSF	511174.6079	28966
721996.828	4294332.011	7654	20-Dec-13	ALEX122013.SSF	511175.6179	28967
721996.982	4294332.105	7343	20-Dec-13	ALEX122013.SSF	511176.5491	28968
721997.257	4294332.266	7626	20-Dec-13	ALEX122013.SSF	511177.6531	28969

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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721998.061	4294332.671	8404	20-Dec-13	ALEX122013.SSF	511179.6521	28971
721998.39	4294332.849	8851	20-Dec-13	ALEX122013.SSF	511180.5911	28972
721998.753	4294333.113	8572	20-Dec-13	ALEX122013.SSF	511181.7051	28973
721999.023	4294333.217	8023	20-Dec-13	ALEX122013.SSF	511182.53	28974
721999.372	4294333.35	7556	20-Dec-13	ALEX122013.SSF	511183.627	28975
721999.752	4294333.46	8249	20-Dec-13	ALEX122013.SSF	511184.615	28976
722000.172	4294333.562	8812	20-Dec-13	ALEX122013.SSF	511185.6089	28977
722000.585	4294333.617	8563	20-Dec-13	ALEX122013.SSF	511186.5769	28978
722001.001	4294333.756	8290	20-Dec-13	ALEX122013.SSF	511187.6631	28979
722001.244	4294333.828	8042	20-Dec-13	ALEX122013.SSF	511188.5601	28980
722001.511	4294333.959	8700	20-Dec-13	ALEX122013.SSF	511189.6121	28981
722001.725	4294334.164	8445	20-Dec-13	ALEX122013.SSF	511190.5649	28982
722001.995	4294334.359	8801	20-Dec-13	ALEX122013.SSF	511191.657	28983
722002.184	4294334.488	8050	20-Dec-13	ALEX122013.SSF	511192.551	28984
722002.386	4294334.569	8432	20-Dec-13	ALEX122013.SSF	511193.655	28985
722002.463	4294334.734	9008	20-Dec-13	ALEX122013.SSF	511194.554	28986
722002.576	4294335.019	8912	20-Dec-13	ALEX122013.SSF	511195.6489	28987
722002.749	4294335.304	7658	20-Dec-13	ALEX122013.SSF	511196.627	28988
722002.969	4294335.543	7974	20-Dec-13	ALEX122013.SSF	511197.707	28989
722003.179	4294335.724	8803	20-Dec-13	ALEX122013.SSF	511198.6101	28990
722003.525	4294335.883	8801	20-Dec-13	ALEX122013.SSF	511199.6831	28991
722003.792	4294336.025	8770	20-Dec-13	ALEX122013.SSF	511200.5891	28992
722004.054	4294336.128	7832	20-Dec-13	ALEX122013.SSF	511201.6689	28993
722004.258	4294336.231	8596	20-Dec-13	ALEX122013.SSF	511202.53	28994
722004.477	4294336.352	7434	20-Dec-13	ALEX122013.SSF	511203.616	28995
722004.663	4294336.505	7768	20-Dec-13	ALEX122013.SSF	511204.5071	28996
722004.901	4294336.76	8542	20-Dec-13	ALEX122013.SSF	511205.595	28997
722005.089	4294336.994	8645	20-Dec-13	ALEX122013.SSF	511206.5811	28998
722005.219	4294337.267	8941	20-Dec-13	ALEX122013.SSF	511207.6589	28999
722005.301	4294337.52	8655	20-Dec-13	ALEX122013.SSF	511208.5481	29000
722005.388	4294337.845	7893	20-Dec-13	ALEX122013.SSF	511209.634	29001
722005.498	4294338.128	7763	20-Dec-13	ALEX122013.SSF	511210.5911	29002
722005.737	4294338.389	8151	20-Dec-13	ALEX122013.SSF	511211.7029	29003
722005.978	4294338.563	7707	20-Dec-13	ALEX122013.SSF	511212.6089	29004
722006.27	4294338.772	7717	20-Dec-13	ALEX122013.SSF	511213.676	29005
722006.624	4294338.973	7119	20-Dec-13	ALEX122013.SSF	511214.6321	29006
722007.104	4294339.286	7689	20-Dec-13	ALEX122013.SSF	511215.6919	29007
722007.505	4294339.49	7382	20-Dec-13	ALEX122013.SSF	511216.6169	29008
722007.935	4294339.699	8865	20-Dec-13	ALEX122013.SSF	511217.6909	29009
722008.343	4294339.881	8726	20-Dec-13	ALEX122013.SSF	511218.6179	29010
722008.836	4294340.257	8511	20-Dec-13	ALEX122013.SSF	511219.6299	29011
722009.246	4294340.504	7378	20-Dec-13	ALEX122013.SSF	511220.4951	29012
722009.679	4294340.712	8594	20-Dec-13	ALEX122013.SSF	511221.6221	29013
722009.983	4294340.828	8418	20-Dec-13	ALEX122013.SSF	511222.5071	29014
722010.29	4294341.019	8164	20-Dec-13	ALEX122013.SSF	511223.6079	29015
722010.403	4294341.232	8581	20-Dec-13	ALEX122013.SSF	511224.4661	29016

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722010.515	4294341.535	8655	20-Dec-13	ALEX122013.SSF	511225.7051	29017
722010.578	4294341.697	8283	20-Dec-13	ALEX122013.SSF	511226.6179	29018
722010.69	4294341.854	9451	20-Dec-13	ALEX122013.SSF	511227.7061	29019
722010.751	4294341.957	7912	20-Dec-13	ALEX122013.SSF	511228.5759	29020
722010.883	4294342.059	8098	20-Dec-13	ALEX122013.SSF	511229.74	29021
722011.101	4294342.147	8714	20-Dec-13	ALEX122013.SSF	511230.6011	29022
722011.419	4294342.233	8928	20-Dec-13	ALEX122013.SSF	511231.647	29023
722011.655	4294342.25	9732	20-Dec-13	ALEX122013.SSF	511232.5549	29024
722011.951	4294342.16	9363	20-Dec-13	ALEX122013.SSF	511233.6899	29025
722012.032	4294342.147	8430	20-Dec-13	ALEX122013.SSF	511234.5439	29026
722011.922	4294342.238	9517	20-Dec-13	ALEX122013.SSF	511235.6531	29027
722011.816	4294342.296	8949	20-Dec-13	ALEX122013.SSF	511236.6111	29028
722011.833	4294342.247	8777	20-Dec-13	ALEX122013.SSF	511237.679	29029
722011.864	4294342.209	7984	20-Dec-13	ALEX122013.SSF	511238.6089	29030
722011.761	4294342.216	9376	20-Dec-13	ALEX122013.SSF	511239.6509	29031
722011.72	4294342.217	8464	20-Dec-13	ALEX122013.SSF	511240.5959	29032
722011.912	4294342.254	8446	20-Dec-13	ALEX122013.SSF	511241.645	29033
722012.328	4294342.237	7631	20-Dec-13	ALEX122013.SSF	511242.553	29034
722012.863	4294342.086	8208	20-Dec-13	ALEX122013.SSF	511243.6389	29035
722013.027	4294341.971	8262	20-Dec-13	ALEX122013.SSF	511244.551	29036
722012.748	4294341.829	7945	20-Dec-13	ALEX122013.SSF	511245.655	29037
722012.347	4294341.946	8526	20-Dec-13	ALEX122013.SSF	511246.5581	29038
722012.193	4294342.028	8671	20-Dec-13	ALEX122013.SSF	511247.592	29039
722012.289	4294341.969	8077	20-Dec-13	ALEX122013.SSF	511248.5229	29040
722012.385	4294341.969	9759	20-Dec-13	ALEX122013.SSF	511249.6331	29041
722012.423	4294341.971	7870	20-Dec-13	ALEX122013.SSF	511250.55	29042
722012.474	4294341.918	8867	20-Dec-13	ALEX122013.SSF	511251.6721	29043
722012.493	4294341.896	8606	20-Dec-13	ALEX122013.SSF	511252.5181	29044
722012.478	4294341.901	8091	20-Dec-13	ALEX122013.SSF	511253.593	29045
722012.524	4294341.868	8683	20-Dec-13	ALEX122013.SSF	511254.561	29046
722012.561	4294341.757	9070	20-Dec-13	ALEX122013.SSF	511255.679	29047
722012.532	4294341.73	7547	20-Dec-13	ALEX122013.SSF	511256.644	29048
722012.567	4294341.737	8186	20-Dec-13	ALEX122013.SSF	511257.6631	29049
722012.591	4294341.729	9066	20-Dec-13	ALEX122013.SSF	511258.604	29050
722012.569	4294341.705	8836	20-Dec-13	ALEX122013.SSF	511259.6589	29051
722012.548	4294341.678	7579	20-Dec-13	ALEX122013.SSF	511260.5859	29052
722012.534	4294341.646	7654	20-Dec-13	ALEX122013.SSF	511261.6809	29053
722012.521	4294341.617	9083	20-Dec-13	ALEX122013.SSF	511262.655	29054
722012.518	4294341.593	8721	20-Dec-13	ALEX122013.SSF	511263.7109	29055
722012.519	4294341.579	8300	20-Dec-13	ALEX122013.SSF	511264.637	29056
722012.519	4294341.564	7955	20-Dec-13	ALEX122013.SSF	511265.6699	29057
722012.52	4294341.551	7718	20-Dec-13	ALEX122013.SSF	511266.5391	29058
722012.526	4294341.542	8439	20-Dec-13	ALEX122013.SSF	511267.582	29059
722012.529	4294341.535	8590	20-Dec-13	ALEX122013.SSF	511268.5359	29060
722012.534	4294341.523	8777	20-Dec-13	ALEX122013.SSF	511269.6169	29061
722012.548	4294341.519	7984	20-Dec-13	ALEX122013.SSF	511270.5071	29062
722012.564	4294341.516	8146	20-Dec-13	ALEX122013.SSF	511271.5991	29063

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722012.581	4294341.512	8399	20-Dec-13	ALEX122013.SSF	511273.604	29065
722012.587	4294341.511	8970	20-Dec-13	ALEX122013.SSF	511274.5081	29066
722012.596	4294341.511	7942	20-Dec-13	ALEX122013.SSF	511275.675	29067
722012.599	4294341.506	8855	20-Dec-13	ALEX122013.SSF	511276.6111	29068
722012.599	4294341.492	8813	20-Dec-13	ALEX122013.SSF	511277.6299	29069
722012.606	4294341.484	8593	20-Dec-13	ALEX122013.SSF	511278.5271	29070
722012.615	4294341.484	9318	20-Dec-13	ALEX122013.SSF	511279.626	29071
722012.619	4294341.484	8869	20-Dec-13	ALEX122013.SSF	511280.4241	29072
722012.622	4294341.477	9867	20-Dec-13	ALEX122013.SSF	511281.49	29073
722012.622	4294341.451	8737	20-Dec-13	ALEX122013.SSF	511282.4509	29074
722012.68	4294341.362	8124	20-Dec-13	ALEX122013.SSF	511283.5239	29075
722012.919	4294341.335	7491	20-Dec-13	ALEX122013.SSF	511284.457	29076
722013.256	4294341.447	8052	20-Dec-13	ALEX122013.SSF	511285.6509	29077
722013.258	4294341.475	9993	20-Dec-13	ALEX122013.SSF	511286.52	29078
722013.165	4294341.575	9788	20-Dec-13	ALEX122013.SSF	511287.5969	29079
722013.072	4294341.717	9497	20-Dec-13	ALEX122013.SSF	511288.5769	29080
722012.964	4294341.695	9604	20-Dec-13	ALEX122013.SSF	511289.6279	29081
722012.769	4294341.553	9031	20-Dec-13	ALEX122013.SSF	511290.551	29082
722012.331	4294341.274	8977	20-Dec-13	ALEX122013.SSF	511291.595	29083
722011.851	4294341.021	8454	20-Dec-13	ALEX122013.SSF	511292.5801	29084
722011.38	4294340.887	8383	20-Dec-13	ALEX122013.SSF	511293.6279	29085
722010.984	4294340.831	7466	20-Dec-13	ALEX122013.SSF	511294.593	29086
722010.722	4294340.769	7986	20-Dec-13	ALEX122013.SSF	511295.594	29087
722010.533	4294340.642	8566	20-Dec-13	ALEX122013.SSF	511296.5129	29088
722010.155	4294340.251	8051	20-Dec-13	ALEX122013.SSF	511297.5969	29089
722009.809	4294339.86	9273	20-Dec-13	ALEX122013.SSF	511298.4661	29090
722009.434	4294339.444	8318	20-Dec-13	ALEX122013.SSF	511299.6101	29091
722009.226	4294339.103	8289	20-Dec-13	ALEX122013.SSF	511300.509	29092
722008.916	4294338.856	8882	20-Dec-13	ALEX122013.SSF	511301.5859	29093
722008.612	4294338.799	8940	20-Dec-13	ALEX122013.SSF	511302.5491	29094
722008.503	4294338.573	8595	20-Dec-13	ALEX122013.SSF	511303.6499	29095
722008.428	4294338.284	8028	20-Dec-13	ALEX122013.SSF	511304.5349	29096
722008.147	4294338.015	8607	20-Dec-13	ALEX122013.SSF	511305.6179	29097
722007.743	4294337.822	7702	20-Dec-13	ALEX122013.SSF	511306.6299	29098
722007.234	4294337.684	7925	20-Dec-13	ALEX122013.SSF	511307.696	29099
722006.827	4294337.49	7291	20-Dec-13	ALEX122013.SSF	511308.5491	29100
722006.401	4294337.16	8122	20-Dec-13	ALEX122013.SSF	511309.625	29101
722006.082	4294336.832	7940	20-Dec-13	ALEX122013.SSF	511310.502	29102
722005.736	4294336.321	8765	20-Dec-13	ALEX122013.SSF	511311.6321	29103
722005.512	4294335.96	8731	20-Dec-13	ALEX122013.SSF	511312.5049	29104
722005.309	4294335.62	8542	20-Dec-13	ALEX122013.SSF	511313.5791	29105
722005.162	4294335.436	9065	20-Dec-13	ALEX122013.SSF	511314.52	29106
722004.874	4294335.271	8746	20-Dec-13	ALEX122013.SSF	511315.6021	29107
722004.516	4294335.127	7346	20-Dec-13	ALEX122013.SSF	511316.562	29108
722004.176	4294334.82	8496	20-Dec-13	ALEX122013.SSF	511317.667	29109
722003.912	4294334.556	8184	20-Dec-13	ALEX122013.SSF	511318.5259	29110

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722003.117	4294333.992	8641	20-Dec-13	ALEX122013.SSF	511320.627	29112
722002.835	4294333.764	9060	20-Dec-13	ALEX122013.SSF	511321.686	29113
722002.691	4294333.5	10155	20-Dec-13	ALEX122013.SSF	511322.561	29114
722002.528	4294333.158	8988	20-Dec-13	ALEX122013.SSF	511323.624	29115
722002.381	4294332.892	7767	20-Dec-13	ALEX122013.SSF	511324.5869	29116
722002.195	4294332.663	8572	20-Dec-13	ALEX122013.SSF	511325.6399	29117
722001.927	4294332.501	8533	20-Dec-13	ALEX122013.SSF	511326.616	29118
722001.535	4294332.359	7443	20-Dec-13	ALEX122013.SSF	511327.625	29119
722001.155	4294332.167	8250	20-Dec-13	ALEX122013.SSF	511328.5459	29120
722000.688	4294331.969	8422	20-Dec-13	ALEX122013.SSF	511329.626	29121
722000.233	4294331.709	8885	20-Dec-13	ALEX122013.SSF	511330.6221	29122
721999.721	4294331.381	8731	20-Dec-13	ALEX122013.SSF	511331.6311	29123
721999.258	4294331.03	7582	20-Dec-13	ALEX122013.SSF	511332.6379	29124
721998.814	4294330.686	7805	20-Dec-13	ALEX122013.SSF	511333.707	29125
721998.534	4294330.378	7711	20-Dec-13	ALEX122013.SSF	511334.6189	29126
721998.385	4294330.109	9277	20-Dec-13	ALEX122013.SSF	511335.6299	29127
721998.312	4294329.921	9069	20-Dec-13	ALEX122013.SSF	511336.6001	29128
721998.2	4294329.774	8597	20-Dec-13	ALEX122013.SSF	511337.6201	29129
721998.037	4294329.623	7999	20-Dec-13	ALEX122013.SSF	511338.5029	29130
721997.766	4294329.442	7879	20-Dec-13	ALEX122013.SSF	511339.636	29131
721997.571	4294329.299	8390	20-Dec-13	ALEX122013.SSF	511340.541	29132
721997.389	4294328.992	8007	20-Dec-13	ALEX122013.SSF	511341.6799	29133
721997.269	4294328.76	8572	20-Dec-13	ALEX122013.SSF	511342.5181	29134
721997.093	4294328.569	8533	20-Dec-13	ALEX122013.SSF	511343.616	29135
721996.885	4294328.465	8073	20-Dec-13	ALEX122013.SSF	511344.5859	29136
721996.67	4294328.371	8318	20-Dec-13	ALEX122013.SSF	511345.646	29137
721996.506	4294328.279	8829	20-Dec-13	ALEX122013.SSF	511346.5281	29138
721996.239	4294328.14	8777	20-Dec-13	ALEX122013.SSF	511347.6421	29139
721995.967	4294327.958	8344	20-Dec-13	ALEX122013.SSF	511348.593	29140
721995.599	4294327.711	8416	20-Dec-13	ALEX122013.SSF	511349.6179	29141
721995.197	4294327.511	8584	20-Dec-13	ALEX122013.SSF	511350.5161	29142
721994.708	4294327.173	8836	20-Dec-13	ALEX122013.SSF	511351.6699	29143
721994.327	4294326.982	8599	20-Dec-13	ALEX122013.SSF	511352.5181	29144
721993.883	4294326.748	7669	20-Dec-13	ALEX122013.SSF	511353.6101	29145
721993.626	4294326.526	8607	20-Dec-13	ALEX122013.SSF	511354.5071	29146
721993.369	4294326.293	8692	20-Dec-13	ALEX122013.SSF	511355.6101	29147
721993.128	4294326.129	8413	20-Dec-13	ALEX122013.SSF	511356.502	29148
721992.785	4294325.874	8193	20-Dec-13	ALEX122013.SSF	511357.606	29149
721992.563	4294325.623	8348	20-Dec-13	ALEX122013.SSF	511358.5181	29150
721992.407	4294325.359	7997	20-Dec-13	ALEX122013.SSF	511359.5879	29151
721992.311	4294325.157	7819	20-Dec-13	ALEX122013.SSF	511360.54	29152
721992.28	4294324.903	7384	20-Dec-13	ALEX122013.SSF	511361.6221	29153
721992.326	4294324.696	7816	20-Dec-13	ALEX122013.SSF	511362.5291	29154
721992.115	4294324.696	7504	20-Dec-13	ALEX122013.SSF	511363.6389	29155
721991.939	4294324.918	8236	20-Dec-13	ALEX122013.SSF	511364.554	29156
721991.856	4294324.998	8299	20-Dec-13	ALEX122013.SSF	511365.5691	29157

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721991.736	4294324.755	8404	20-Dec-13	ALEX122013.SSF	511366.5659	29158
721991.878	4294324.54	7801	20-Dec-13	ALEX122013.SSF	511367.5891	29159
721992.147	4294324.442	7230	20-Dec-13	ALEX122013.SSF	511368.5129	29160
721992.332	4294324.343	7657	20-Dec-13	ALEX122013.SSF	511369.562	29161
721992.266	4294324.343	7884	20-Dec-13	ALEX122013.SSF	511370.4729	29162
721991.964	4294324.553	8091	20-Dec-13	ALEX122013.SSF	511371.5591	29163
721991.792	4294324.744	8082	20-Dec-13	ALEX122013.SSF	511372.4529	29164
721991.774	4294324.839	9250	20-Dec-13	ALEX122013.SSF	511373.5171	29165
721991.848	4294324.847	8432	20-Dec-13	ALEX122013.SSF	511374.4741	29166
721991.965	4294324.902	8108	20-Dec-13	ALEX122013.SSF	511375.6279	29167
721991.999	4294325.015	8267	20-Dec-13	ALEX122013.SSF	511376.5229	29168
721991.99	4294325.034	9446	20-Dec-13	ALEX122013.SSF	511377.5959	29169
721991.987	4294324.944	8601	20-Dec-13	ALEX122013.SSF	511378.562	29170
721991.998	4294324.893	8600	20-Dec-13	ALEX122013.SSF	511379.5681	29171
721992.061	4294324.917	8090	20-Dec-13	ALEX122013.SSF	511380.4609	29172
721992.364	4294324.947	7242	20-Dec-13	ALEX122013.SSF	511381.5649	29173
721992.769	4294325.024	7990	20-Dec-13	ALEX122013.SSF	511382.554	29174
721993.165	4294325.049	7427	20-Dec-13	ALEX122013.SSF	511383.5481	29175
721993.52	4294325.13	8576	20-Dec-13	ALEX122013.SSF	511384.467	29176
721993.946	4294325.413	8684	20-Dec-13	ALEX122013.SSF	511385.5959	29177
721994.279	4294325.668	8861	20-Dec-13	ALEX122013.SSF	511386.533	29178
721994.591	4294325.923	7975	20-Dec-13	ALEX122013.SSF	511387.6311	29179
721994.821	4294326.14	8323	20-Dec-13	ALEX122013.SSF	511388.561	29180
721995.117	4294326.425	7661	20-Dec-13	ALEX122013.SSF	511389.6189	29181
721995.438	4294326.794	7705	20-Dec-13	ALEX122013.SSF	511390.5439	29182
721995.823	4294327.156	8016	20-Dec-13	ALEX122013.SSF	511391.6101	29183
721996.113	4294327.094	8184	20-Dec-13	ALEX122013.SSF	511392.5039	29184
721996.286	4294326.688	8076	20-Dec-13	ALEX122013.SSF	511393.5691	29185
721996.256	4294326.312	7419	20-Dec-13	ALEX122013.SSF	511394.5491	29186
721996.157	4294326.013	7704	20-Dec-13	ALEX122013.SSF	511395.5659	29187
721995.948	4294325.787	9186	20-Dec-13	ALEX122013.SSF	511396.52	29188
721995.75	4294325.56	8176	20-Dec-13	ALEX122013.SSF	511397.5911	29189
721995.761	4294325.269	7954	20-Dec-13	ALEX122013.SSF	511398.4919	29190
721995.953	4294324.801	7658	20-Dec-13	ALEX122013.SSF	511399.6221	29191
721996.181	4294324.546	6954	20-Dec-13	ALEX122013.SSF	511400.5081	29192
721996.359	4294324.278	8878	20-Dec-13	ALEX122013.SSF	511401.5759	29193
721996.466	4294323.945	8129	20-Dec-13	ALEX122013.SSF	511402.563	29194
721996.501	4294323.424	8842	20-Dec-13	ALEX122013.SSF	511403.6389	29195
721996.482	4294322.818	8630	20-Dec-13	ALEX122013.SSF	511404.5791	29196
721996.55	4294322.152	8247	20-Dec-13	ALEX122013.SSF	511405.623	29197
721996.647	4294321.678	8242	20-Dec-13	ALEX122013.SSF	511406.4971	29198
721996.921	4294321.292	8060	20-Dec-13	ALEX122013.SSF	511407.5659	29199
721997.357	4294320.977	8675	20-Dec-13	ALEX122013.SSF	511408.561	29200
721997.745	4294320.734	7958	20-Dec-13	ALEX122013.SSF	511409.627	29201
721998.03	4294320.729	8499	20-Dec-13	ALEX122013.SSF	511410.4729	29202
721998.492	4294320.809	8275	20-Dec-13	ALEX122013.SSF	511411.5911	29203
721998.81	4294320.848	7528	20-Dec-13	ALEX122013.SSF	511412.468	29204

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721999.18	4294320.879	8602	20-Dec-13	ALEX122013.SSF	511413.582	29205
721999.598	4294320.97	7790	20-Dec-13	ALEX122013.SSF	511414.458	29206
722000.265	4294320.993	9147	20-Dec-13	ALEX122013.SSF	511415.6521	29207
722000.714	4294320.901	9547	20-Dec-13	ALEX122013.SSF	511416.5681	29208
722001.129	4294320.892	8476	20-Dec-13	ALEX122013.SSF	511417.6479	29209
722001.394	4294320.94	8809	20-Dec-13	ALEX122013.SSF	511418.5129	29210
722001.691	4294321.098	8712	20-Dec-13	ALEX122013.SSF	511419.574	29211
722002.021	4294321.36	8238	20-Dec-13	ALEX122013.SSF	511420.5249	29212
722002.456	4294321.752	8599	20-Dec-13	ALEX122013.SSF	511421.613	29213
722002.641	4294322.156	9079	20-Dec-13	ALEX122013.SSF	511422.511	29214
722002.576	4294322.643	8840	20-Dec-13	ALEX122013.SSF	511423.6179	29215
722002.42	4294322.88	7940	20-Dec-13	ALEX122013.SSF	511424.5701	29216
722002.214	4294323.152	8975	20-Dec-13	ALEX122013.SSF	511425.614	29217
722001.947	4294323.463	8243	20-Dec-13	ALEX122013.SSF	511426.5769	29218
722001.628	4294323.785	7521	20-Dec-13	ALEX122013.SSF	511427.624	29219
722001.338	4294323.999	7070	20-Dec-13	ALEX122013.SSF	511428.5139	29220
722000.973	4294324.189	7107	20-Dec-13	ALEX122013.SSF	511429.5991	29221
722000.727	4294324.357	9037	20-Dec-13	ALEX122013.SSF	511430.5371	29222
722000.527	4294324.564	7449	20-Dec-13	ALEX122013.SSF	511431.657	29223
722000.408	4294324.657	7952	20-Dec-13	ALEX122013.SSF	511432.4861	29224
722000.103	4294324.774	7718	20-Dec-13	ALEX122013.SSF	511433.5869	29225
721999.733	4294324.958	7239	20-Dec-13	ALEX122013.SSF	511434.4871	29226
721999.417	4294325.243	7480	20-Dec-13	ALEX122013.SSF	511435.5149	29227
721999.294	4294325.521	7480	20-Dec-13	ALEX122013.SSF	511436.4451	29228
721999.226	4294325.811	7870	20-Dec-13	ALEX122013.SSF	511437.5869	29229
721999.287	4294326.135	9077	20-Dec-13	ALEX122013.SSF	511438.459	29230
721999.404	4294326.649	8359	20-Dec-13	ALEX122013.SSF	511439.5779	29231
721999.364	4294326.925	8509	20-Dec-13	ALEX122013.SSF	511440.512	29232
721999.293	4294327.2	8727	20-Dec-13	ALEX122013.SSF	511441.5681	29233
721999.197	4294327.458	9142	20-Dec-13	ALEX122013.SSF	511442.4419	29234
721999.049	4294327.818	8645	20-Dec-13	ALEX122013.SSF	511443.5559	29235
721998.958	4294328.101	8821	20-Dec-13	ALEX122013.SSF	511444.457	29236
721998.801	4294328.418	8775	20-Dec-13	ALEX122013.SSF	511445.5901	29237
721998.603	4294328.681	7293	20-Dec-13	ALEX122013.SSF	511446.488	29238
721998.246	4294329.001	8183	20-Dec-13	ALEX122013.SSF	511447.5681	29239
721997.88	4294329.226	8376	20-Dec-13	ALEX122013.SSF	511448.5669	29240
721997.45	4294329.331	7974	20-Dec-13	ALEX122013.SSF	511449.5791	29241
721997.133	4294329.304	8353	20-Dec-13	ALEX122013.SSF	511450.5129	29242
721996.935	4294329.115	9498	20-Dec-13	ALEX122013.SSF	511451.5029	29243
721996.739	4294328.838	9214	20-Dec-13	ALEX122013.SSF	511452.512	29244
721996.592	4294328.585	7793	20-Dec-13	ALEX122013.SSF	511453.5249	29245
721996.481	4294328.316	7498	20-Dec-13	ALEX122013.SSF	511454.439	29246
721996.322	4294327.856	7664	20-Dec-13	ALEX122013.SSF	511455.5049	29247
721996.31	4294327.489	8246	20-Dec-13	ALEX122013.SSF	511456.425	29248
721996.181	4294327.137	6201	20-Dec-13	ALEX122013.SSF	511457.584	29249
721995.914	4294326.79	8420	20-Dec-13	ALEX122013.SSF	511458.4109	29250
721995.712	4294326.242	9065	20-Dec-13	ALEX122013.SSF	511459.5339	29251

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721995.749	4294325.953	9046	20-Dec-13	ALEX122013.SSF	511460.4751	29252
721995.727	4294325.794	7571	20-Dec-13	ALEX122013.SSF	511461.5391	29253
721995.441	4294325.732	7263	20-Dec-13	ALEX122013.SSF	511462.5281	29254
721995.262	4294325.822	7215	20-Dec-13	ALEX122013.SSF	511463.5759	29255
721995.338	4294325.921	7203	20-Dec-13	ALEX122013.SSF	511464.554	29256
721995.429	4294325.97	7891	20-Dec-13	ALEX122013.SSF	511465.5229	29257
721995.473	4294326.022	7642	20-Dec-13	ALEX122013.SSF	511466.4089	29258
721995.464	4294326.186	7520	20-Dec-13	ALEX122013.SSF	511467.554	29259
721995.449	4294326.556	8270	20-Dec-13	ALEX122013.SSF	511468.4609	29260
721995.605	4294327.325	7857	20-Dec-13	ALEX122013.SSF	511469.4761	29261
721996.005	4294328.247	8054	20-Dec-13	ALEX122013.SSF	511470.498	29262
721996.649	4294329.268	7863	20-Dec-13	ALEX122013.SSF	511471.604	29263
721997.372	4294329.928	7275	20-Dec-13	ALEX122013.SSF	511472.533	29264
721998.174	4294330.052	8358	20-Dec-13	ALEX122013.SSF	511473.6111	29265
721998.691	4294329.637	8059	20-Dec-13	ALEX122013.SSF	511474.4971	29266
721998.911	4294328.734	7955	20-Dec-13	ALEX122013.SSF	511475.616	29267
721998.678	4294328.15	9008	20-Dec-13	ALEX122013.SSF	511476.5049	29268
721998.479	4294327.916	8012	20-Dec-13	ALEX122013.SSF	511477.582	29269
721998.506	4294327.948	7793	20-Dec-13	ALEX122013.SSF	511478.551	29270
721998.524	4294327.986	8518	20-Dec-13	ALEX122013.SSF	511479.6531	29271
721998.517	4294328.008	8969	20-Dec-13	ALEX122013.SSF	511480.5239	29272
721998.523	4294328.047	8452	20-Dec-13	ALEX122013.SSF	511481.5349	29273
721998.537	4294328.087	8426	20-Dec-13	ALEX122013.SSF	511482.5601	29274
721998.646	4294328.112	7998	20-Dec-13	ALEX122013.SSF	511483.615	29275
721998.824	4294328.235	8239	20-Dec-13	ALEX122013.SSF	511484.54	29276
721999.138	4294328.383	7189	20-Dec-13	ALEX122013.SSF	511485.635	29277
721999.454	4294328.559	8487	20-Dec-13	ALEX122013.SSF	511486.5081	29278
721999.782	4294328.898	7702	20-Dec-13	ALEX122013.SSF	511487.6331	29279
721999.948	4294329.175	8285	20-Dec-13	ALEX122013.SSF	511488.512	29280
722000.083	4294329.486	7711	20-Dec-13	ALEX122013.SSF	511489.6379	29281
722000.205	4294329.68	7657	20-Dec-13	ALEX122013.SSF	511490.561	29282
722000.443	4294329.85	8634	20-Dec-13	ALEX122013.SSF	511491.6221	29283
722000.691	4294329.974	8248	20-Dec-13	ALEX122013.SSF	511492.5049	29284
722001.016	4294330.225	7972	20-Dec-13	ALEX122013.SSF	511493.593	29285
722001.313	4294330.458	9283	20-Dec-13	ALEX122013.SSF	511494.4751	29286
722001.679	4294330.77	8320	20-Dec-13	ALEX122013.SSF	511495.512	29287
722002.07	4294331.068	7420	20-Dec-13	ALEX122013.SSF	511496.5259	29288
722002.49	4294331.361	8845	20-Dec-13	ALEX122013.SSF	511497.5759	29289
722002.796	4294331.572	8751	20-Dec-13	ALEX122013.SSF	511498.4519	29290
722003.127	4294331.824	9777	20-Dec-13	ALEX122013.SSF	511499.5391	29291
722003.393	4294332.126	7754	20-Dec-13	ALEX122013.SSF	511500.5029	29292
722003.663	4294332.44	9438	20-Dec-13	ALEX122013.SSF	511501.49	29293
722003.925	4294332.752	8569	20-Dec-13	ALEX122013.SSF	511502.47	29294
722004.189	4294333.14	9492	20-Dec-13	ALEX122013.SSF	511503.5259	29295
722004.417	4294333.46	9003	20-Dec-13	ALEX122013.SSF	511504.4609	29296
722004.68	4294333.766	8520	20-Dec-13	ALEX122013.SSF	511505.627	29297
722004.84	4294333.968	7020	20-Dec-13	ALEX122013.SSF	511506.4451	29298

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722005.076	4294334.151	8535	20-Dec-13	ALEX122013.SSF	511507.6211	29299
722005.315	4294334.314	8013	20-Dec-13	ALEX122013.SSF	511508.533	29300
722005.713	4294334.524	7403	20-Dec-13	ALEX122013.SSF	511509.606	29301
722006.056	4294334.722	8871	20-Dec-13	ALEX122013.SSF	511510.4871	29302
722006.468	4294334.961	8277	20-Dec-13	ALEX122013.SSF	511511.552	29303
722006.936	4294335.171	8939	20-Dec-13	ALEX122013.SSF	511512.5591	29304
722007.359	4294335.346	8655	20-Dec-13	ALEX122013.SSF	511513.6021	29305
722007.619	4294335.492	9513	20-Dec-13	ALEX122013.SSF	511514.5171	29306
722007.798	4294335.798	8108	20-Dec-13	ALEX122013.SSF	511515.6179	29307
722007.977	4294336.061	8627	20-Dec-13	ALEX122013.SSF	511516.5371	29308
722008.308	4294336.334	8546	20-Dec-13	ALEX122013.SSF	511517.5759	29309
722008.693	4294336.481	8916	20-Dec-13	ALEX122013.SSF	511518.5471	29310
722009.073	4294336.671	7899	20-Dec-13	ALEX122013.SSF	511519.6211	29311
722009.289	4294336.85	7914	20-Dec-13	ALEX122013.SSF	511520.4299	29312
722009.534	4294337.066	8818	20-Dec-13	ALEX122013.SSF	511521.585	29313
722009.653	4294337.264	9584	20-Dec-13	ALEX122013.SSF	511522.511	29314
722009.778	4294337.532	9506	20-Dec-13	ALEX122013.SSF	511523.5659	29315
722009.889	4294337.761	8346	20-Dec-13	ALEX122013.SSF	511524.436	29316
722009.986	4294338.018	8266	20-Dec-13	ALEX122013.SSF	511525.478	29317
722010.09	4294338.223	8366	20-Dec-13	ALEX122013.SSF	511526.426	29318
722010.304	4294338.432	8181	20-Dec-13	ALEX122013.SSF	511527.5439	29319
722010.556	4294338.636	8495	20-Dec-13	ALEX122013.SSF	511528.4221	29320
722010.93	4294338.936	8513	20-Dec-13	ALEX122013.SSF	511529.5569	29321
722011.248	4294339.173	7798	20-Dec-13	ALEX122013.SSF	511530.542	29322
722011.662	4294339.36	8279	20-Dec-13	ALEX122013.SSF	511531.616	29323
722012.073	4294339.519	8010	20-Dec-13	ALEX122013.SSF	511532.5591	29324
722012.531	4294339.668	8452	20-Dec-13	ALEX122013.SSF	511533.604	29325
722012.87	4294339.855	8186	20-Dec-13	ALEX122013.SSF	511534.53	29326
722013.092	4294340.13	7848	20-Dec-13	ALEX122013.SSF	511535.563	29327
722013.248	4294340.235	8202	20-Dec-13	ALEX122013.SSF	511536.511	29328
722013.37	4294340.299	9010	20-Dec-13	ALEX122013.SSF	511537.5879	29329
722013.285	4294340.403	8462	20-Dec-13	ALEX122013.SSF	511538.436	29330
722013.076	4294340.5	7875	20-Dec-13	ALEX122013.SSF	511539.592	29331
722013.12	4294340.479	8448	20-Dec-13	ALEX122013.SSF	511540.4751	29332
722013.248	4294340.415	8982	20-Dec-13	ALEX122013.SSF	511541.5991	29333
722013.375	4294340.298	8395	20-Dec-13	ALEX122013.SSF	511542.5549	29334
722013.595	4294340.08	9839	20-Dec-13	ALEX122013.SSF	511543.595	29335
722013.694	4294339.963	8639	20-Dec-13	ALEX122013.SSF	511544.4609	29336
722013.714	4294339.922	7980	20-Dec-13	ALEX122013.SSF	511545.5381	29337
722013.73	4294339.909	8865	20-Dec-13	ALEX122013.SSF	511546.4089	29338
722013.596	4294340.074	8876	20-Dec-13	ALEX122013.SSF	511547.5549	29339
722013.39	4294340.443	8069	20-Dec-13	ALEX122013.SSF	511548.4351	29340
722013.444	4294340.59	8737	20-Dec-13	ALEX122013.SSF	511549.533	29341
722013.808	4294340.211	7464	20-Dec-13	ALEX122013.SSF	511550.4709	29342
722014.083	4294339.785	7476	20-Dec-13	ALEX122013.SSF	511551.5249	29343
722013.982	4294339.593	8739	20-Dec-13	ALEX122013.SSF	511552.4021	29344
722013.677	4294339.354	7854	20-Dec-13	ALEX122013.SSF	511553.5139	29345

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722013.412	4294339.14	9163	20-Dec-13	ALEX122013.SSF	511554.397	29346
722013.01	4294338.915	8891	20-Dec-13	ALEX122013.SSF	511555.498	29347
722012.713	4294338.653	9872	20-Dec-13	ALEX122013.SSF	511556.4651	29348
722012.431	4294338.401	9038	20-Dec-13	ALEX122013.SSF	511557.5669	29349
722012.24	4294338.277	8319	20-Dec-13	ALEX122013.SSF	511558.45	29350
722012.058	4294338.04	7840	20-Dec-13	ALEX122013.SSF	511559.5391	29351
722011.988	4294337.681	9040	20-Dec-13	ALEX122013.SSF	511560.5129	29352
722011.857	4294337.351	9670	20-Dec-13	ALEX122013.SSF	511561.6121	29353
722011.663	4294337.192	9137	20-Dec-13	ALEX122013.SSF	511562.511	29354
722011.342	4294337.018	9064	20-Dec-13	ALEX122013.SSF	511563.5381	29355
722010.942	4294336.829	8896	20-Dec-13	ALEX122013.SSF	511564.521	29356
722010.536	4294336.654	8884	20-Dec-13	ALEX122013.SSF	511565.4771	29357
722010.148	4294336.454	9271	20-Dec-13	ALEX122013.SSF	511566.415	29358
722009.702	4294336.149	9157	20-Dec-13	ALEX122013.SSF	511567.4939	29359
722009.311	4294335.83	8229	20-Dec-13	ALEX122013.SSF	511568.4319	29360
722008.963	4294335.452	8837	20-Dec-13	ALEX122013.SSF	511569.5081	29361
722008.737	4294335.204	8779	20-Dec-13	ALEX122013.SSF	511570.479	29362
722008.487	4294334.916	8884	20-Dec-13	ALEX122013.SSF	511571.5161	29363
722008.185	4294334.628	8941	20-Dec-13	ALEX122013.SSF	511572.4121	29364
722007.67	4294334.276	8175	20-Dec-13	ALEX122013.SSF	511573.5061	29365
722007.196	4294333.957	6813	20-Dec-13	ALEX122013.SSF	511574.4241	29366
722006.65	4294333.65	9533	20-Dec-13	ALEX122013.SSF	511575.501	29367
722006.29	4294333.421	9013	20-Dec-13	ALEX122013.SSF	511576.3821	29368
722005.889	4294333.097	8973	20-Dec-13	ALEX122013.SSF	511577.4209	29369
722005.472	4294332.707	8663	20-Dec-13	ALEX122013.SSF	511578.384	29370
722005.207	4294332.258	8375	20-Dec-13	ALEX122013.SSF	511579.437	29371
722005.091	4294331.939	8514	20-Dec-13	ALEX122013.SSF	511580.4851	29372
722004.805	4294331.757	7588	20-Dec-13	ALEX122013.SSF	511581.5471	29373
722004.407	4294331.579	8737	20-Dec-13	ALEX122013.SSF	511582.489	29374
722003.856	4294331.354	9174	20-Dec-13	ALEX122013.SSF	511583.5669	29375
722003.338	4294331.07	7633	20-Dec-13	ALEX122013.SSF	511584.5181	29376
722002.811	4294330.764	8148	20-Dec-13	ALEX122013.SSF	511585.511	29377
722002.319	4294330.534	8937	20-Dec-13	ALEX122013.SSF	511586.4851	29378
722001.863	4294330.292	8294	20-Dec-13	ALEX122013.SSF	511587.542	29379
722001.526	4294330.064	8043	20-Dec-13	ALEX122013.SSF	511588.4971	29380
722001.196	4294329.761	8400	20-Dec-13	ALEX122013.SSF	511589.5549	29381
722000.912	4294329.475	8340	20-Dec-13	ALEX122013.SSF	511590.5039	29382
722000.658	4294329.16	8145	20-Dec-13	ALEX122013.SSF	511591.5581	29383
722000.467	4294328.925	8336	20-Dec-13	ALEX122013.SSF	511592.4309	29384
722000.257	4294328.651	7904	20-Dec-13	ALEX122013.SSF	511593.531	29385
722000.114	4294328.402	8636	20-Dec-13	ALEX122013.SSF	511594.5061	29386
721999.923	4294328.23	8009	20-Dec-13	ALEX122013.SSF	511595.593	29387
721999.798	4294328.107	8482	20-Dec-13	ALEX122013.SSF	511596.4741	29388
721999.658	4294327.983	6560	20-Dec-13	ALEX122013.SSF	511597.5471	29389
721999.454	4294327.98	7310	20-Dec-13	ALEX122013.SSF	511598.5029	29390
721999.155	4294328.033	7107	20-Dec-13	ALEX122013.SSF	511599.5691	29391
721998.919	4294328.241	7897	20-Dec-13	ALEX122013.SSF	511600.438	29392

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721998.56	4294328.744	8214	20-Dec-13	ALEX122013.SSF	511601.5129	29393
721998.078	4294329.033	8413	20-Dec-13	ALEX122013.SSF	511602.3989	29394
721997.272	4294329.005	7683	20-Dec-13	ALEX122013.SSF	511603.4829	29395
721996.534	4294328.737	7920	20-Dec-13	ALEX122013.SSF	511604.4331	29396
721995.991	4294328.158	8910	20-Dec-13	ALEX122013.SSF	511605.5229	29397
721995.803	4294327.423	7237	20-Dec-13	ALEX122013.SSF	511606.509	29398
721995.685	4294326.681	7419	20-Dec-13	ALEX122013.SSF	511607.5061	29399
721995.73	4294326.126	7345	20-Dec-13	ALEX122013.SSF	511608.4771	29400
721995.783	4294325.749	7296	20-Dec-13	ALEX122013.SSF	511609.5581	29401
721995.676	4294325.482	7494	20-Dec-13	ALEX122013.SSF	511610.489	29402
721995.533	4294325.13	7903	20-Dec-13	ALEX122013.SSF	511611.55	29403
721995.308	4294324.874	7736	20-Dec-13	ALEX122013.SSF	511612.491	29404
721994.993	4294324.628	8414	20-Dec-13	ALEX122013.SSF	511613.489	29405
721994.69	4294324.398	8643	20-Dec-13	ALEX122013.SSF	511614.4551	29406
721994.305	4294324.17	7560	20-Dec-13	ALEX122013.SSF	511615.499	29407
721993.965	4294324.032	7140	20-Dec-13	ALEX122013.SSF	511616.3711	29408
721993.618	4294323.94	8055	20-Dec-13	ALEX122013.SSF	511617.4619	29409
721993.522	4294323.735	8133	20-Dec-13	ALEX122013.SSF	511618.408	29410
721993.419	4294323.547	9503	20-Dec-13	ALEX122013.SSF	511619.481	29411
721993.259	4294323.683	8676	20-Dec-13	ALEX122013.SSF	511620.4709	29412
721993.268	4294323.705	8349	20-Dec-13	ALEX122013.SSF	511621.542	29413
721993.174	4294323.506	7817	20-Dec-13	ALEX122013.SSF	511622.3999	29414
721993.111	4294323.281	8494	20-Dec-13	ALEX122013.SSF	511623.5391	29415
721993.284	4294323.257	7943	20-Dec-13	ALEX122013.SSF	511624.4131	29416
721993.393	4294323.3	9276	20-Dec-13	ALEX122013.SSF	511625.582	29417
721993.3	4294323.371	8739	20-Dec-13	ALEX122013.SSF	511626.5081	29418
721993.503	4294323.332	7674	20-Dec-13	ALEX122013.SSF	511627.5591	29419
721993.898	4294323.224	8278	20-Dec-13	ALEX122013.SSF	511628.502	29420
721993.847	4294323.177	7919	20-Dec-13	ALEX122013.SSF	511629.5601	29421
721993.453	4294323.072	8220	20-Dec-13	ALEX122013.SSF	511630.45	29422
721993.237	4294322.986	7515	20-Dec-13	ALEX122013.SSF	511631.5081	29423
721993.33	4294323.048	7878	20-Dec-13	ALEX122013.SSF	511632.365	29424
721993.573	4294323.176	7609	20-Dec-13	ALEX122013.SSF	511633.447	29425
721993.906	4294323.432	7452	20-Dec-13	ALEX122013.SSF	511634.3789	29426
721994.504	4294323.806	7623	20-Dec-13	ALEX122013.SSF	511635.551	29427
721995.098	4294324.041	7905	20-Dec-13	ALEX122013.SSF	511636.4919	29428
721995.566	4294324.301	7526	20-Dec-13	ALEX122013.SSF	511637.51	29429
721995.792	4294324.433	8061	20-Dec-13	ALEX122013.SSF	511638.4209	29430
721995.842	4294324.646	7505	20-Dec-13	ALEX122013.SSF	511639.509	29431
721995.597	4294325.09	8116	20-Dec-13	ALEX122013.SSF	511640.4929	29432
721995.242	4294325.558	8179	20-Dec-13	ALEX122013.SSF	511641.4871	29433
721994.974	4294325.944	8494	20-Dec-13	ALEX122013.SSF	511642.4939	29434
721994.963	4294326.5	7973	20-Dec-13	ALEX122013.SSF	511643.5	29435
721995.192	4294327.354	9133	20-Dec-13	ALEX122013.SSF	511644.4751	29436
721995.417	4294328.373	8583	20-Dec-13	ALEX122013.SSF	511645.5049	29437
721995.709	4294329.119	7515	20-Dec-13	ALEX122013.SSF	511646.377	29438
721996.626	4294329.69	7638	20-Dec-13	ALEX122013.SSF	511647.5	29439

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721997.722	4294329.766	8179	20-Dec-13	ALEX122013.SSF	511648.384	29440
721999.162	4294329.464	8345	20-Dec-13	ALEX122013.SSF	511649.49	29441
721999.83	4294328.903	8746	20-Dec-13	ALEX122013.SSF	511650.4009	29442
722000.001	4294327.99	9176	20-Dec-13	ALEX122013.SSF	511651.5061	29443
721999.988	4294327.384	8864	20-Dec-13	ALEX122013.SSF	511652.394	29444
721999.875	4294326.958	7916	20-Dec-13	ALEX122013.SSF	511653.467	29445
721999.864	4294326.881	8009	20-Dec-13	ALEX122013.SSF	511654.447	29446
721999.956	4294327.01	8542	20-Dec-13	ALEX122013.SSF	511655.5061	29447
722000.104	4294327.144	7925	20-Dec-13	ALEX122013.SSF	511656.4089	29448
722000.363	4294327.378	8551	20-Dec-13	ALEX122013.SSF	511657.5271	29449
722000.55	4294327.575	7987	20-Dec-13	ALEX122013.SSF	511658.425	29450
722000.854	4294327.924	9227	20-Dec-13	ALEX122013.SSF	511659.553	29451
722001.191	4294328.201	8816	20-Dec-13	ALEX122013.SSF	511660.418	29452
722001.645	4294328.499	9014	20-Dec-13	ALEX122013.SSF	511661.491	29453
722002.035	4294328.683	8313	20-Dec-13	ALEX122013.SSF	511662.4089	29454
722002.507	4294328.868	8978	20-Dec-13	ALEX122013.SSF	511663.4609	29455
722002.93	4294329.12	8124	20-Dec-13	ALEX122013.SSF	511664.4241	29456
722003.377	4294329.363	8121	20-Dec-13	ALEX122013.SSF	511665.488	29457
722003.767	4294329.646	7880	20-Dec-13	ALEX122013.SSF	511666.4309	29458
722004.223	4294329.993	8750	20-Dec-13	ALEX122013.SSF	511667.5161	29459
722004.532	4294330.312	8007	20-Dec-13	ALEX122013.SSF	511668.407	29460
722004.853	4294330.757	8092	20-Dec-13	ALEX122013.SSF	511669.573	29461
722005.065	4294331.057	8143	20-Dec-13	ALEX122013.SSF	511670.3821	29462
722000.374	4294319.864	7166	20-Dec-13	ALEX122013.SSF	511784.626	29463
722000.373	4294319.863	8151	20-Dec-13	ALEX122013.SSF	511784.6279	29464
721999.775	4294319.917	8097	20-Dec-13	ALEX122013.SSF	511785.4851	29465
721999.173	4294320.371	8489	20-Dec-13	ALEX122013.SSF	511786.4189	29466
721998.659	4294320.956	7871	20-Dec-13	ALEX122013.SSF	511787.499	29467
721998.333	4294321.117	7817	20-Dec-13	ALEX122013.SSF	511788.396	29468
721998.018	4294321.033	8194	20-Dec-13	ALEX122013.SSF	511789.458	29469
721997.783	4294320.928	8378	20-Dec-13	ALEX122013.SSF	511790.4021	29470
721997.268	4294320.889	7254	20-Dec-13	ALEX122013.SSF	511791.478	29471
721996.808	4294321.07	8143	20-Dec-13	ALEX122013.SSF	511792.354	29472
721996.555	4294321.598	7676	20-Dec-13	ALEX122013.SSF	511793.521	29473
721996.538	4294321.994	7919	20-Dec-13	ALEX122013.SSF	511794.4331	29474
721996.463	4294322.217	8849	20-Dec-13	ALEX122013.SSF	511795.4231	29475
721996.263	4294322.192	8242	20-Dec-13	ALEX122013.SSF	511796.4131	29476
721996.159	4294321.937	7760	20-Dec-13	ALEX122013.SSF	511797.4431	29477
721996.199	4294321.746	7310	20-Dec-13	ALEX122013.SSF	511798.3789	29478
721996.283	4294321.826	7887	20-Dec-13	ALEX122013.SSF	511799.4409	29479
721996.315	4294321.913	7642	20-Dec-13	ALEX122013.SSF	511800.425	29480
721996.302	4294321.915	8210	20-Dec-13	ALEX122013.SSF	511801.4231	29481
721996.268	4294321.932	8052	20-Dec-13	ALEX122013.SSF	511802.3569	29482
721996.228	4294321.973	8253	20-Dec-13	ALEX122013.SSF	511803.5	29483
721996.206	4294322.013	8723	20-Dec-13	ALEX122013.SSF	511804.426	29484
721996.177	4294322.041	8120	20-Dec-13	ALEX122013.SSF	511805.4209	29485
721996.151	4294322.048	8120	20-Dec-13	ALEX122013.SSF	511806.3679	29486

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721996.107	4294322.067	8832	20-Dec-13	ALEX122013.SSF	511808.3779	29488
721996.053	4294322.125	8928	20-Dec-13	ALEX122013.SSF	511809.49	29489
721996.033	4294322.158	8604	20-Dec-13	ALEX122013.SSF	511810.4041	29490
721996.037	4294322.158	8245	20-Dec-13	ALEX122013.SSF	511811.4409	29491
721996.045	4294322.153	7851	20-Dec-13	ALEX122013.SSF	511812.4761	29492
721996.046	4294322.156	7752	20-Dec-13	ALEX122013.SSF	511813.5161	29493
721996.046	4294322.157	8628	20-Dec-13	ALEX122013.SSF	511814.4299	29494
721996.045	4294322.159	8877	20-Dec-13	ALEX122013.SSF	511815.4021	29495
721996.048	4294322.252	7889	20-Dec-13	ALEX122013.SSF	511816.3921	29496
721996.098	4294322.337	6922	20-Dec-13	ALEX122013.SSF	511817.4319	29497
721996.237	4294322.078	8030	20-Dec-13	ALEX122013.SSF	511818.4529	29498
721996.436	4294321.796	8097	20-Dec-13	ALEX122013.SSF	511819.4519	29499
721996.614	4294321.771	8624	20-Dec-13	ALEX122013.SSF	511820.3999	29500
721996.819	4294321.809	8846	20-Dec-13	ALEX122013.SSF	511821.4041	29501
721996.972	4294321.779	8451	20-Dec-13	ALEX122013.SSF	511822.3711	29502
721996.879	4294321.751	7812	20-Dec-13	ALEX122013.SSF	511823.4089	29503
721996.601	4294321.668	7953	20-Dec-13	ALEX122013.SSF	511824.3259	29504
721996.123	4294321.518	7688	20-Dec-13	ALEX122013.SSF	511825.4729	29505
721995.771	4294321.401	7382	20-Dec-13	ALEX122013.SSF	511826.438	29506
721995.442	4294321.256	7245	20-Dec-13	ALEX122013.SSF	511827.521	29507
721995.221	4294321.184	7481	20-Dec-13	ALEX122013.SSF	511828.458	29508
721995.048	4294320.987	8170	20-Dec-13	ALEX122013.SSF	511829.5161	29509
721994.883	4294320.732	6932	20-Dec-13	ALEX122013.SSF	511830.3811	29510
721994.542	4294320.743	8243	20-Dec-13	ALEX122013.SSF	511831.531	29511
721994.443	4294320.998	7730	20-Dec-13	ALEX122013.SSF	511832.418	29512
721994.576	4294321.131	8112	20-Dec-13	ALEX122013.SSF	511833.4851	29513
721994.566	4294321.055	7338	20-Dec-13	ALEX122013.SSF	511834.436	29514
721994.77	4294320.952	7834	20-Dec-13	ALEX122013.SSF	511835.488	29515
721995.25	4294320.864	7478	20-Dec-13	ALEX122013.SSF	511836.3311	29516
721995.664	4294320.812	8319	20-Dec-13	ALEX122013.SSF	511837.449	29517
721995.545	4294320.872	7480	20-Dec-13	ALEX122013.SSF	511838.3679	29518
721995.077	4294320.964	7390	20-Dec-13	ALEX122013.SSF	511839.4729	29519
721994.944	4294321.012	8297	20-Dec-13	ALEX122013.SSF	511840.377	29520
721995.253	4294321.165	7474	20-Dec-13	ALEX122013.SSF	511841.4871	29521
721995.647	4294321.367	7778	20-Dec-13	ALEX122013.SSF	511842.4861	29522
721996.154	4294321.531	8064	20-Dec-13	ALEX122013.SSF	511843.5029	29523
721996.605	4294321.679	7776	20-Dec-13	ALEX122013.SSF	511844.437	29524
721996.97	4294321.808	8184	20-Dec-13	ALEX122013.SSF	511845.5061	29525
721997.129	4294321.78	6666	20-Dec-13	ALEX122013.SSF	511846.3911	29526
721997.392	4294321.49	8656	20-Dec-13	ALEX122013.SSF	511847.4109	29527
721997.926	4294321.184	7294	20-Dec-13	ALEX122013.SSF	511848.3789	29528
721998.521	4294320.891	7493	20-Dec-13	ALEX122013.SSF	511849.4189	29529
721999.021	4294320.703	7903	20-Dec-13	ALEX122013.SSF	511850.436	29530
721999.638	4294320.824	8276	20-Dec-13	ALEX122013.SSF	511851.47	29531
722000.209	4294321.044	7829	20-Dec-13	ALEX122013.SSF	511852.373	29532
722000.729	4294321.26	7567	20-Dec-13	ALEX122013.SSF	511853.45	29533

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722001.532	4294321.316	8362	20-Dec-13	ALEX122013.SSF	511855.438	29535
722002.097	4294321.722	7790	20-Dec-13	ALEX122013.SSF	511856.364	29536
722002.555	4294322.42	7497	20-Dec-13	ALEX122013.SSF	511857.3821	29537
722002.587	4294323.162	7364	20-Dec-13	ALEX122013.SSF	511858.4231	29538
722002.06	4294323.662	7481	20-Dec-13	ALEX122013.SSF	511859.4829	29539
722001.454	4294323.67	8260	20-Dec-13	ALEX122013.SSF	511860.448	29540
722001.219	4294323.546	7675	20-Dec-13	ALEX122013.SSF	511861.4351	29541
722001.112	4294323.768	8128	20-Dec-13	ALEX122013.SSF	511862.436	29542
722000.886	4294324.29	8122	20-Dec-13	ALEX122013.SSF	511863.498	29543
722000.691	4294324.577	8030	20-Dec-13	ALEX122013.SSF	511864.3721	29544
722000.537	4294324.725	8337	20-Dec-13	ALEX122013.SSF	511865.4319	29545
722000.58	4294324.777	7334	20-Dec-13	ALEX122013.SSF	511866.3799	29546
722000.536	4294324.566	6783	20-Dec-13	ALEX122013.SSF	511867.45	29547
722000.402	4294324.359	6795	20-Dec-13	ALEX122013.SSF	511868.3779	29548
722000.426	4294324.295	7638	20-Dec-13	ALEX122013.SSF	511869.3579	29549
722000.757	4294324.37	7369	20-Dec-13	ALEX122013.SSF	511870.429	29550
722001.111	4294324.557	8802	20-Dec-13	ALEX122013.SSF	511871.4761	29551
722001.397	4294324.808	8080	20-Dec-13	ALEX122013.SSF	511872.418	29552
722001.656	4294325.231	7330	20-Dec-13	ALEX122013.SSF	511873.5049	29553
722001.878	4294325.578	8162	20-Dec-13	ALEX122013.SSF	511874.46	29554
722002.091	4294325.871	8670	20-Dec-13	ALEX122013.SSF	511875.4221	29555
722002.281	4294326.112	8467	20-Dec-13	ALEX122013.SSF	511876.3469	29556
722002.522	4294326.47	8357	20-Dec-13	ALEX122013.SSF	511877.4141	29557
722002.785	4294326.796	7699	20-Dec-13	ALEX122013.SSF	511878.405	29558
722003.164	4294327.094	8344	20-Dec-13	ALEX122013.SSF	511879.4419	29559
722003.568	4294327.313	8416	20-Dec-13	ALEX122013.SSF	511880.425	29560
722004.038	4294327.488	7774	20-Dec-13	ALEX122013.SSF	511881.4451	29561
722004.482	4294327.612	8393	20-Dec-13	ALEX122013.SSF	511882.3479	29562
722004.974	4294327.731	8128	20-Dec-13	ALEX122013.SSF	511883.397	29563
722005.389	4294327.927	9622	20-Dec-13	ALEX122013.SSF	511884.4609	29564
722005.743	4294328.17	9995	20-Dec-13	ALEX122013.SSF	511885.4431	29565
722005.98	4294328.385	9098	20-Dec-13	ALEX122013.SSF	511886.415	29566
722006.131	4294328.392	8844	20-Dec-13	ALEX122013.SSF	511887.479	29567
722006.198	4294328.345	9651	20-Dec-13	ALEX122013.SSF	511888.4221	29568
722006.092	4294328.367	8652	20-Dec-13	ALEX122013.SSF	511889.4629	29569
722005.968	4294328.415	9093	20-Dec-13	ALEX122013.SSF	511890.3679	29570
722005.879	4294328.497	7583	20-Dec-13	ALEX122013.SSF	511891.4529	29571
722005.957	4294328.53	8795	20-Dec-13	ALEX122013.SSF	511892.4451	29572
722006.289	4294328.627	9219	20-Dec-13	ALEX122013.SSF	511893.5029	29573
722006.684	4294328.785	8964	20-Dec-13	ALEX122013.SSF	511894.4319	29574
722007.139	4294328.972	8841	20-Dec-13	ALEX122013.SSF	511895.447	29575
722007.423	4294329.211	9050	20-Dec-13	ALEX122013.SSF	511896.3059	29576
722007.694	4294329.477	9342	20-Dec-13	ALEX122013.SSF	511897.3611	29577
722007.938	4294329.731	10495	20-Dec-13	ALEX122013.SSF	511898.3191	29578
722008.133	4294330.006	10034	20-Dec-13	ALEX122013.SSF	511899.4089	29579
722008.305	4294330.18	9498	20-Dec-13	ALEX122013.SSF	511900.356	29580

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722008.789	4294330.477	8536	20-Dec-13	ALEX122013.SSF	511902.4099	29582
722009.029	4294330.74	9904	20-Dec-13	ALEX122013.SSF	511903.4221	29583
722009.194	4294331.05	9616	20-Dec-13	ALEX122013.SSF	511904.3679	29584
722009.415	4294331.333	8674	20-Dec-13	ALEX122013.SSF	511905.4661	29585
722009.521	4294331.534	8948	20-Dec-13	ALEX122013.SSF	511906.4551	29586
722009.462	4294331.593	9827	20-Dec-13	ALEX122013.SSF	511907.468	29587
722009.399	4294331.542	8906	20-Dec-13	ALEX122013.SSF	511908.4351	29588
722009.376	4294331.502	8646	20-Dec-13	ALEX122013.SSF	511909.4871	29589
722009.457	4294331.495	8851	20-Dec-13	ALEX122013.SSF	511910.3469	29590
722009.709	4294331.59	7162	20-Dec-13	ALEX122013.SSF	511911.426	29591
722009.996	4294331.761	8420	20-Dec-13	ALEX122013.SSF	511912.436	29592
722010.346	4294331.944	8585	20-Dec-13	ALEX122013.SSF	511913.4021	29593
722010.796	4294332.112	8446	20-Dec-13	ALEX122013.SSF	511914.3779	29594
722011.3	4294332.26	7871	20-Dec-13	ALEX122013.SSF	511915.417	29595
722011.617	4294332.569	8208	20-Dec-13	ALEX122013.SSF	511916.377	29596
722011.831	4294332.968	9192	20-Dec-13	ALEX122013.SSF	511917.4741	29597
722011.952	4294333.249	8838	20-Dec-13	ALEX122013.SSF	511918.3149	29598
722011.975	4294333.53	7789	20-Dec-13	ALEX122013.SSF	511919.365	29599
722012.045	4294333.703	8607	20-Dec-13	ALEX122013.SSF	511920.385	29600
722012.256	4294333.883	8242	20-Dec-13	ALEX122013.SSF	511921.425	29601
722012.476	4294334.058	7820	20-Dec-13	ALEX122013.SSF	511922.3721	29602
722012.761	4294334.286	7595	20-Dec-13	ALEX122013.SSF	511923.4399	29603
722013.058	4294334.525	7568	20-Dec-13	ALEX122013.SSF	511924.4209	29604
722013.394	4294334.76	8192	20-Dec-13	ALEX122013.SSF	511925.4431	29605
722013.677	4294334.997	9068	20-Dec-13	ALEX122013.SSF	511926.3811	29606
722014.024	4294335.257	9497	20-Dec-13	ALEX122013.SSF	511927.4231	29607
722014.353	4294335.505	9874	20-Dec-13	ALEX122013.SSF	511928.3789	29608
722014.741	4294335.75	8888	20-Dec-13	ALEX122013.SSF	511929.4189	29609
722015.169	4294335.88	9662	20-Dec-13	ALEX122013.SSF	511930.3201	29610
722015.574	4294336.12	7965	20-Dec-13	ALEX122013.SSF	511931.4041	29611
722015.855	4294336.299	8081	20-Dec-13	ALEX122013.SSF	511932.417	29612
722015.975	4294336.394	9550	20-Dec-13	ALEX122013.SSF	511933.4951	29613
722015.857	4294336.526	8597	20-Dec-13	ALEX122013.SSF	511934.3931	29614
722015.779	4294336.523	8359	20-Dec-13	ALEX122013.SSF	511935.4121	29615
722015.915	4294336.151	8659	20-Dec-13	ALEX122013.SSF	511936.387	29616
722016.286	4294335.775	7085	20-Dec-13	ALEX122013.SSF	511937.4141	29617
722016.995	4294335.636	7891	20-Dec-13	ALEX122013.SSF	511938.406	29618
722017.689	4294335.636	7912	20-Dec-13	ALEX122013.SSF	511939.407	29619
722017.794	4294335.729	8068	20-Dec-13	ALEX122013.SSF	511940.3159	29620
722017.439	4294335.946	8047	20-Dec-13	ALEX122013.SSF	511941.4021	29621
722017.107	4294336.095	8431	20-Dec-13	ALEX122013.SSF	511942.394	29622
722016.948	4294335.959	9007	20-Dec-13	ALEX122013.SSF	511943.4609	29623
722017.025	4294335.622	8072	20-Dec-13	ALEX122013.SSF	511944.314	29624
722017.199	4294335.382	8168	20-Dec-13	ALEX122013.SSF	511945.3789	29625
722017.219	4294335.372	8192	20-Dec-13	ALEX122013.SSF	511946.344	29626
722017.199	4294335.404	9008	20-Dec-13	ALEX122013.SSF	511947.375	29627

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722016.639	4294335.29	7868	20-Dec-13	ALEX122013.SSF	511949.4519	29629
722016.241	4294334.924	8387	20-Dec-13	ALEX122013.SSF	511950.3989	29630
722015.915	4294334.561	8966	20-Dec-13	ALEX122013.SSF	511951.3989	29631
722015.686	4294334.348	7311	20-Dec-13	ALEX122013.SSF	511952.366	29632
722015.44	4294334.155	8938	20-Dec-13	ALEX122013.SSF	511953.428	29633
722015.098	4294333.962	7034	20-Dec-13	ALEX122013.SSF	511954.447	29634
722014.742	4294333.775	8988	20-Dec-13	ALEX122013.SSF	511955.425	29635
722014.358	4294333.58	8874	20-Dec-13	ALEX122013.SSF	511956.3391	29636
722013.816	4294333.329	9539	20-Dec-13	ALEX122013.SSF	511957.396	29637
722013.219	4294333.027	8055	20-Dec-13	ALEX122013.SSF	511958.4951	29638
722012.707	4294332.687	8373	20-Dec-13	ALEX122013.SSF	511959.5129	29639
722012.251	4294332.364	7763	20-Dec-13	ALEX122013.SSF	511960.3989	29640
722011.714	4294331.933	7820	20-Dec-13	ALEX122013.SSF	511961.4939	29641
722011.366	4294331.598	9245	20-Dec-13	ALEX122013.SSF	511962.363	29642
722011.041	4294331.182	8881	20-Dec-13	ALEX122013.SSF	511963.4231	29643
722010.836	4294330.882	9210	20-Dec-13	ALEX122013.SSF	511964.376	29644
722010.635	4294330.58	9322	20-Dec-13	ALEX122013.SSF	511965.3669	29645
722010.389	4294330.215	8120	20-Dec-13	ALEX122013.SSF	511966.3701	29646
722010.106	4294329.884	8240	20-Dec-13	ALEX122013.SSF	511967.3721	29647
722009.815	4294329.685	8780	20-Dec-13	ALEX122013.SSF	511968.3311	29648
722009.515	4294329.499	9275	20-Dec-13	ALEX122013.SSF	511969.314	29649
722009.194	4294329.202	9368	20-Dec-13	ALEX122013.SSF	511970.3921	29650
722008.883	4294328.915	8882	20-Dec-13	ALEX122013.SSF	511971.3611	29651
722008.484	4294328.64	8430	20-Dec-13	ALEX122013.SSF	511972.3359	29652
722008.029	4294328.388	9637	20-Dec-13	ALEX122013.SSF	511973.3479	29653
722007.672	4294328.141	9309	20-Dec-13	ALEX122013.SSF	511974.3059	29654
722007.267	4294327.842	9227	20-Dec-13	ALEX122013.SSF	511975.4409	29655
722006.8	4294327.574	8696	20-Dec-13	ALEX122013.SSF	511976.428	29656
722006.331	4294327.373	8414	20-Dec-13	ALEX122013.SSF	511977.406	29657
722006.148	4294327.173	7833	20-Dec-13	ALEX122013.SSF	511978.3611	29658
722006.243	4294327.046	8948	20-Dec-13	ALEX122013.SSF	511979.4519	29659
722006.274	4294327.02	8837	20-Dec-13	ALEX122013.SSF	511980.301	29660
722006.107	4294326.973	8479	20-Dec-13	ALEX122013.SSF	511981.408	29661
722005.734	4294326.913	8629	20-Dec-13	ALEX122013.SSF	511982.355	29662
722005.341	4294326.646	8577	20-Dec-13	ALEX122013.SSF	511983.396	29663
722005.085	4294326.28	8384	20-Dec-13	ALEX122013.SSF	511984.3291	29664
722004.782	4294325.832	8666	20-Dec-13	ALEX122013.SSF	511985.491	29665
722004.499	4294325.578	7266	20-Dec-13	ALEX122013.SSF	511986.385	29666
722004.066	4294325.418	7126	20-Dec-13	ALEX122013.SSF	511987.3979	29667
722003.564	4294325.175	7061	20-Dec-13	ALEX122013.SSF	511988.4121	29668
722002.965	4294324.859	7885	20-Dec-13	ALEX122013.SSF	511989.4819	29669
722002.559	4294324.552	8331	20-Dec-13	ALEX122013.SSF	511990.3779	29670
722002.207	4294324.248	8712	20-Dec-13	ALEX122013.SSF	511991.3521	29671
722001.92	4294324.022	6948	20-Dec-13	ALEX122013.SSF	511992.345	29672
722001.945	4294323.482	7827	20-Dec-13	ALEX122013.SSF	511993.426	29673
722002.239	4294322.556	8016	20-Dec-13	ALEX122013.SSF	511994.4031	29674

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722002.914	4294321.252	7588	20-Dec-13	ALEX122013.SSF	511996.2971	29676
722002.415	4294320.914	6847	20-Dec-13	ALEX122013.SSF	511997.376	29677
722001.766	4294320.413	7771	20-Dec-13	ALEX122013.SSF	511998.3799	29678
722001.136	4294320.127	7792	20-Dec-13	ALEX122013.SSF	511999.356	29679
722000.203	4294320.176	7768	20-Dec-13	ALEX122013.SSF	512000.4551	29680
721999.276	4294320.105	8992	20-Dec-13	ALEX122013.SSF	512001.459	29681
721998.561	4294320.096	8398	20-Dec-13	ALEX122013.SSF	512002.427	29682
721998.172	4294320.378	8699	20-Dec-13	ALEX122013.SSF	512003.458	29683
721997.951	4294320.593	7935	20-Dec-13	ALEX122013.SSF	512004.416	29684
721997.547	4294320.622	7263	20-Dec-13	ALEX122013.SSF	512005.4529	29685
721997.21	4294320.428	8235	20-Dec-13	ALEX122013.SSF	512006.3279	29686
721996.921	4294320.07	7758	20-Dec-13	ALEX122013.SSF	512007.4431	29687
721996.717	4294319.838	8929	20-Dec-13	ALEX122013.SSF	512008.396	29688
721996.54	4294319.558	8892	20-Dec-13	ALEX122013.SSF	512009.373	29689
721996.255	4294319.329	8553	20-Dec-13	ALEX122013.SSF	512010.4041	29690
721995.865	4294319.262	7928	20-Dec-13	ALEX122013.SSF	512011.3679	29691
721995.794	4294319.209	7952	20-Dec-13	ALEX122013.SSF	512012.4031	29692
721996.029	4294319.079	7928	20-Dec-13	ALEX122013.SSF	512013.3479	29693
721995.9	4294318.786	6962	20-Dec-13	ALEX122013.SSF	512014.4221	29694
721995.919	4294318.573	7980	20-Dec-13	ALEX122013.SSF	512015.4221	29695
721996.245	4294318.462	7365	20-Dec-13	ALEX122013.SSF	512016.3879	29696
721996.277	4294318.423	7991	20-Dec-13	ALEX122013.SSF	512017.438	29697
721995.999	4294318.407	7818	20-Dec-13	ALEX122013.SSF	512018.2771	29698
721995.702	4294318.318	8764	20-Dec-13	ALEX122013.SSF	512019.3911	29699
721995.849	4294318.365	7291	20-Dec-13	ALEX122013.SSF	512020.3589	29700
721996.021	4294318.471	7582	20-Dec-13	ALEX122013.SSF	512021.4661	29701
721995.952	4294318.48	7895	20-Dec-13	ALEX122013.SSF	512022.4431	29702
721995.899	4294318.512	7704	20-Dec-13	ALEX122013.SSF	512023.5081	29703
721995.921	4294318.501	6996	20-Dec-13	ALEX122013.SSF	512024.4041	29704
721996.045	4294318.425	8019	20-Dec-13	ALEX122013.SSF	512025.418	29705
721996.295	4294318.509	8184	20-Dec-13	ALEX122013.SSF	512026.373	29706
721996.53	4294318.773	8076	20-Dec-13	ALEX122013.SSF	512027.4331	29707
721996.675	4294318.945	8349	20-Dec-13	ALEX122013.SSF	512028.3989	29708
721996.95	4294319.038	7997	20-Dec-13	ALEX122013.SSF	512029.46	29709
721997.274	4294319.053	7879	20-Dec-13	ALEX122013.SSF	512030.3191	29710
721997.62	4294319.19	6949	20-Dec-13	ALEX122013.SSF	512031.3259	29711
721997.909	4294319.423	7827	20-Dec-13	ALEX122013.SSF	512032.2949	29712
721998.19	4294319.809	8497	20-Dec-13	ALEX122013.SSF	512033.4199	29713
721998.364	4294320.108	9024	20-Dec-13	ALEX122013.SSF	512034.2739	29714
721998.687	4294320.388	8196	20-Dec-13	ALEX122013.SSF	512035.4551	29715
721998.988	4294320.557	8889	20-Dec-13	ALEX122013.SSF	512036.3601	29716
721999.371	4294320.739	8642	20-Dec-13	ALEX122013.SSF	512037.45	29717
721999.683	4294320.91	7560	20-Dec-13	ALEX122013.SSF	512038.438	29718
721999.928	4294321.076	8700	20-Dec-13	ALEX122013.SSF	512039.4241	29719
722000.24	4294321.07	9045	20-Dec-13	ALEX122013.SSF	512040.3511	29720
722000.909	4294320.962	8381	20-Dec-13	ALEX122013.SSF	512041.458	29721

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722002.059	4294321.442	8189	20-Dec-13	ALEX122013.SSF	512043.386	29723
722002.356	4294321.78	8107	20-Dec-13	ALEX122013.SSF	512044.3569	29724
722002.528	4294322.076	8656	20-Dec-13	ALEX122013.SSF	512045.4109	29725
722002.601	4294322.416	8374	20-Dec-13	ALEX122013.SSF	512046.365	29726
722002.661	4294322.853	8333	20-Dec-13	ALEX122013.SSF	512047.387	29727
722002.76	4294323.2	8083	20-Dec-13	ALEX122013.SSF	512048.374	29728
722002.904	4294323.574	9191	20-Dec-13	ALEX122013.SSF	512049.4351	29729
722003.026	4294323.891	7307	20-Dec-13	ALEX122013.SSF	512050.3611	29730
722003.247	4294324.196	7856	20-Dec-13	ALEX122013.SSF	512051.396	29731
722003.501	4294324.443	8474	20-Dec-13	ALEX122013.SSF	512052.2791	29732
722003.925	4294324.76	8448	20-Dec-13	ALEX122013.SSF	512053.4041	29733
722004.326	4294324.99	8682	20-Dec-13	ALEX122013.SSF	512054.3101	29734
722004.824	4294325.209	8980	20-Dec-13	ALEX122013.SSF	512055.3811	29735
722005.359	4294325.437	8695	20-Dec-13	ALEX122013.SSF	512056.429	29736
722005.879	4294325.667	8773	20-Dec-13	ALEX122013.SSF	512057.3789	29737
722006.373	4294325.955	8193	20-Dec-13	ALEX122013.SSF	512058.3931	29738
722006.873	4294326.18	8468	20-Dec-13	ALEX122013.SSF	512059.4309	29739
722007.315	4294326.419	8807	20-Dec-13	ALEX122013.SSF	512060.373	29740
722007.665	4294326.652	7931	20-Dec-13	ALEX122013.SSF	512061.4131	29741
722007.866	4294326.915	8643	20-Dec-13	ALEX122013.SSF	512062.3679	29742
722008.041	4294327.306	8370	20-Dec-13	ALEX122013.SSF	512063.344	29743
722008.339	4294327.753	8482	20-Dec-13	ALEX122013.SSF	512064.4619	29744
722008.528	4294328.022	7940	20-Dec-13	ALEX122013.SSF	512065.3921	29745
722008.622	4294328.23	7325	20-Dec-13	ALEX122013.SSF	512066.3401	29746
722008.765	4294328.46	7561	20-Dec-13	ALEX122013.SSF	512067.427	29747
722008.931	4294328.701	7710	20-Dec-13	ALEX122013.SSF	512068.3789	29748
722009.144	4294328.937	9967	20-Dec-13	ALEX122013.SSF	512069.3931	29749
722009.326	4294329.162	9512	20-Dec-13	ALEX122013.SSF	512070.302	29750
722009.563	4294329.475	8618	20-Dec-13	ALEX122013.SSF	512071.446	29751
722009.81	4294329.687	9024	20-Dec-13	ALEX122013.SSF	512072.4009	29752
722010.028	4294329.834	7926	20-Dec-13	ALEX122013.SSF	512073.384	29753
722010.216	4294329.99	8701	20-Dec-13	ALEX122013.SSF	512074.3999	29754
722010.429	4294330.174	9375	20-Dec-13	ALEX122013.SSF	512075.4409	29755
722010.661	4294330.385	8433	20-Dec-13	ALEX122013.SSF	512076.3191	29756
722011.018	4294330.684	8258	20-Dec-13	ALEX122013.SSF	512077.4099	29757
722011.266	4294330.907	8514	20-Dec-13	ALEX122013.SSF	512078.3201	29758
722011.558	4294331.05	9598	20-Dec-13	ALEX122013.SSF	512079.374	29759
722011.898	4294331.071	8789	20-Dec-13	ALEX122013.SSF	512080.3159	29760
722012.32	4294331.117	8767	20-Dec-13	ALEX122013.SSF	512081.3259	29761
722012.68	4294331.205	8491	20-Dec-13	ALEX122013.SSF	512082.241	29762
722013.026	4294331.545	7972	20-Dec-13	ALEX122013.SSF	512083.3999	29763
722013.359	4294331.797	7723	20-Dec-13	ALEX122013.SSF	512084.332	29764
722013.845	4294332.045	7661	20-Dec-13	ALEX122013.SSF	512085.416	29765
722014.205	4294332.271	8155	20-Dec-13	ALEX122013.SSF	512086.3479	29766
722014.483	4294332.618	8398	20-Dec-13	ALEX122013.SSF	512087.4509	29767
722014.742	4294332.852	8369	20-Dec-13	ALEX122013.SSF	512088.302	29768

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722015.813	4294333.977	8615	20-Dec-13	ALEX122013.SSF	512091.4121	29771
722016.035	4294334.386	7253	20-Dec-13	ALEX122013.SSF	512092.3181	29772
722016.33	4294334.833	7993	20-Dec-13	ALEX122013.SSF	512093.4099	29773
722016.512	4294335.105	8388	20-Dec-13	ALEX122013.SSF	512094.3181	29774
722016.67	4294335.24	7287	20-Dec-13	ALEX122013.SSF	512095.4089	29775
722016.709	4294335.274	8683	20-Dec-13	ALEX122013.SSF	512096.3059	29776
722016.534	4294335.215	8600	20-Dec-13	ALEX122013.SSF	512097.457	29777
722016.451	4294335.137	7940	20-Dec-13	ALEX122013.SSF	512098.4221	29778
722016.496	4294335.085	7955	20-Dec-13	ALEX122013.SSF	512099.4009	29779
722016.584	4294335.12	8918	20-Dec-13	ALEX122013.SSF	512100.3811	29780
722016.582	4294335.19	8079	20-Dec-13	ALEX122013.SSF	512101.3479	29781
722016.489	4294335.135	7390	20-Dec-13	ALEX122013.SSF	512102.394	29782
722016.489	4294335.053	6977	20-Dec-13	ALEX122013.SSF	512103.3789	29783
722016.537	4294335.009	8494	20-Dec-13	ALEX122013.SSF	512104.3069	29784
722016.575	4294334.974	8663	20-Dec-13	ALEX122013.SSF	512105.4441	29785
722016.604	4294334.944	8166	20-Dec-13	ALEX122013.SSF	512106.342	29786
722016.655	4294334.911	8131	20-Dec-13	ALEX122013.SSF	512107.406	29787
722016.71	4294334.879	8182	20-Dec-13	ALEX122013.SSF	512108.3181	29788
722016.742	4294334.856	8135	20-Dec-13	ALEX122013.SSF	512109.407	29789
722016.738	4294334.858	8784	20-Dec-13	ALEX122013.SSF	512110.3279	29790
722016.72	4294334.871	8706	20-Dec-13	ALEX122013.SSF	512111.4021	29791
722016.71	4294334.895	8956	20-Dec-13	ALEX122013.SSF	512112.354	29792
722016.714	4294334.925	7789	20-Dec-13	ALEX122013.SSF	512113.3789	29793
722016.705	4294334.934	8037	20-Dec-13	ALEX122013.SSF	512114.415	29794
722016.687	4294334.929	7949	20-Dec-13	ALEX122013.SSF	512115.4089	29795
722016.674	4294334.925	8587	20-Dec-13	ALEX122013.SSF	512116.322	29796
722016.662	4294334.926	7816	20-Dec-13	ALEX122013.SSF	512117.3569	29797
722016.72	4294334.983	9304	20-Dec-13	ALEX122013.SSF	512118.3711	29798
722016.843	4294335.123	8866	20-Dec-13	ALEX122013.SSF	512119.4241	29799
722017.069	4294334.838	7939	20-Dec-13	ALEX122013.SSF	512143.5339	29800
722017.048	4294334.921	8645	20-Dec-13	ALEX122013.SSF	512144.3101	29801
722017	4294335.011	8551	20-Dec-13	ALEX122013.SSF	512145.4099	29802
722016.96	4294335.043	7597	20-Dec-13	ALEX122013.SSF	512146.3491	29803
722016.925	4294335.066	8709	20-Dec-13	ALEX122013.SSF	512147.4209	29804
722016.88	4294335.1	8207	20-Dec-13	ALEX122013.SSF	512148.3589	29805
722016.801	4294335.159	7691	20-Dec-13	ALEX122013.SSF	512149.3491	29806
722016.819	4294335.205	7923	20-Dec-13	ALEX122013.SSF	512150.3379	29807
722017.172	4294335.31	7200	20-Dec-13	ALEX122013.SSF	512151.3879	29808
722017.547	4294335.222	7890	20-Dec-13	ALEX122013.SSF	512152.3201	29809
722017.871	4294334.671	8062	20-Dec-13	ALEX122013.SSF	512153.2739	29810
722018.214	4294334.182	7925	20-Dec-13	ALEX122013.SSF	512154.3081	29811
722018.318	4294334.049	7381	20-Dec-13	ALEX122013.SSF	512155.301	29812
722018.198	4294334.096	8835	20-Dec-13	ALEX122013.SSF	512156.2109	29813
722017.823	4294334.494	8748	20-Dec-13	ALEX122013.SSF	512157.343	29814
722017.533	4294335.016	7767	20-Dec-13	ALEX122013.SSF	512158.2891	29815

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722017.763	4294334.948	8968	20-Dec-13	ALEX122013.SSF	512160.3181	29817
722017.933	4294334.783	8092	20-Dec-13	ALEX122013.SSF	512161.364	29818
722017.945	4294334.741	8773	20-Dec-13	ALEX122013.SSF	512162.3291	29819
722017.871	4294334.791	9063	20-Dec-13	ALEX122013.SSF	512163.3401	29820
722017.784	4294334.828	8235	20-Dec-13	ALEX122013.SSF	512164.344	29821
722017.769	4294334.759	7728	20-Dec-13	ALEX122013.SSF	512165.3149	29822
722017.799	4294334.679	8622	20-Dec-13	ALEX122013.SSF	512166.3369	29823
722017.721	4294334.608	8605	20-Dec-13	ALEX122013.SSF	512167.376	29824
722017.493	4294334.531	7791	20-Dec-13	ALEX122013.SSF	512168.281	29825
722017.202	4294334.236	7527	20-Dec-13	ALEX122013.SSF	512169.373	29826
722016.927	4294333.907	8092	20-Dec-13	ALEX122013.SSF	512170.363	29827
722016.727	4294333.512	7873	20-Dec-13	ALEX122013.SSF	512171.3491	29828
722016.605	4294333.145	8688	20-Dec-13	ALEX122013.SSF	512172.3579	29829
722016.493	4294332.894	8862	20-Dec-13	ALEX122013.SSF	512173.4241	29830
722016.426	4294332.737	8575	20-Dec-13	ALEX122013.SSF	512174.3059	29831
722016.284	4294332.504	8564	20-Dec-13	ALEX122013.SSF	512175.373	29832
722015.989	4294332.28	9281	20-Dec-13	ALEX122013.SSF	512176.3279	29833
722015.531	4294331.975	7990	20-Dec-13	ALEX122013.SSF	512177.3701	29834
722015.073	4294331.709	8117	20-Dec-13	ALEX122013.SSF	512178.3191	29835
722014.53	4294331.507	8179	20-Dec-13	ALEX122013.SSF	512179.4121	29836
722014.137	4294331.203	8704	20-Dec-13	ALEX122013.SSF	512180.3889	29837
722013.804	4294330.857	9886	20-Dec-13	ALEX122013.SSF	512181.408	29838
722013.595	4294330.59	8051	20-Dec-13	ALEX122013.SSF	512182.408	29839
722013.415	4294330.397	9123	20-Dec-13	ALEX122013.SSF	512183.3911	29840
722013.255	4294330.116	8490	20-Dec-13	ALEX122013.SSF	512184.3911	29841
722013.114	4294329.853	7522	20-Dec-13	ALEX122013.SSF	512185.386	29842
722012.874	4294329.668	9080	20-Dec-13	ALEX122013.SSF	512186.2629	29843
722012.449	4294329.348	9350	20-Dec-13	ALEX122013.SSF	512187.363	29844
722011.995	4294329.054	9387	20-Dec-13	ALEX122013.SSF	512188.3491	29845
722011.533	4294328.796	9067	20-Dec-13	ALEX122013.SSF	512189.313	29846
722011.062	4294328.586	8506	20-Dec-13	ALEX122013.SSF	512190.2991	29847
722010.661	4294328.286	8156	20-Dec-13	ALEX122013.SSF	512191.2859	29848
722010.25	4294327.96	8729	20-Dec-13	ALEX122013.SSF	512192.283	29849
722009.925	4294327.562	8302	20-Dec-13	ALEX122013.SSF	512193.2849	29850
722009.684	4294327.268	8525	20-Dec-13	ALEX122013.SSF	512194.293	29851
722009.453	4294327.012	9091	20-Dec-13	ALEX122013.SSF	512195.301	29852
722009.226	4294326.79	8272	20-Dec-13	ALEX122013.SSF	512196.3169	29853
722009.054	4294326.559	7918	20-Dec-13	ALEX122013.SSF	512197.3669	29854
722008.868	4294326.34	7499	20-Dec-13	ALEX122013.SSF	512198.3401	29855
722008.614	4294326.109	9165	20-Dec-13	ALEX122013.SSF	512199.3459	29856
722008.344	4294325.88	9461	20-Dec-13	ALEX122013.SSF	512200.325	29857
722007.961	4294325.72	9205	20-Dec-13	ALEX122013.SSF	512201.363	29858
722007.621	4294325.573	9561	20-Dec-13	ALEX122013.SSF	512202.3369	29859
722007.311	4294325.361	8390	20-Dec-13	ALEX122013.SSF	512203.3899	29860
722007.017	4294325.176	8697	20-Dec-13	ALEX122013.SSF	512204.313	29861
722006.616	4294324.963	8624	20-Dec-13	ALEX122013.SSF	512205.364	29862

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722006.208	4294324.719	8336	20-Dec-13	ALEX122013.SSF	512206.301	29863
722005.8	4294324.522	8804	20-Dec-13	ALEX122013.SSF	512207.29	29864
722005.491	4294324.304	8411	20-Dec-13	ALEX122013.SSF	512208.2119	29865
722005.141	4294323.984	8042	20-Dec-13	ALEX122013.SSF	512209.3369	29866
722004.83	4294323.567	8040	20-Dec-13	ALEX122013.SSF	512210.3091	29867
722004.491	4294323.152	8700	20-Dec-13	ALEX122013.SSF	512211.3491	29868
722004.29	4294322.817	8175	20-Dec-13	ALEX122013.SSF	512212.3059	29869
722004.143	4294322.511	9243	20-Dec-13	ALEX122013.SSF	512213.394	29870
722004.006	4294322.309	8761	20-Dec-13	ALEX122013.SSF	512214.2991	29871
722003.959	4294322.232	8850	20-Dec-13	ALEX122013.SSF	512215.3459	29872
722003.962	4294322.256	8962	20-Dec-13	ALEX122013.SSF	512216.387	29873
722003.974	4294322.138	8300	20-Dec-13	ALEX122013.SSF	512217.4829	29874
722003.894	4294321.899	8075	20-Dec-13	ALEX122013.SSF	512218.394	29875
722003.661	4294321.684	7388	20-Dec-13	ALEX122013.SSF	512219.344	29876
722003.426	4294321.535	8687	20-Dec-13	ALEX122013.SSF	512220.2051	29877
722003.134	4294321.382	8471	20-Dec-13	ALEX122013.SSF	512221.373	29878
722002.928	4294321.258	7428	20-Dec-13	ALEX122013.SSF	512222.272	29879
722002.65	4294321.094	7887	20-Dec-13	ALEX122013.SSF	512223.3169	29880
722002.223	4294320.988	6981	20-Dec-13	ALEX122013.SSF	512224.311	29881
722001.748	4294320.893	7535	20-Dec-13	ALEX122013.SSF	512225.355	29882
722001.36	4294320.859	7403	20-Dec-13	ALEX122013.SSF	512226.322	29883
722001.097	4294320.701	8331	20-Dec-13	ALEX122013.SSF	512227.302	29884
722000.95	4294320.51	8292	20-Dec-13	ALEX122013.SSF	512228.2881	29885
722000.863	4294320.376	8433	20-Dec-13	ALEX122013.SSF	512229.2639	29886
722000.545	4294320.251	8528	20-Dec-13	ALEX122013.SSF	512230.323	29887
722000.068	4294319.886	8072	20-Dec-13	ALEX122013.SSF	512231.3911	29888
721999.634	4294319.511	7598	20-Dec-13	ALEX122013.SSF	512232.332	29889
721999.133	4294319.104	8799	20-Dec-13	ALEX122013.SSF	512233.47	29890
721998.828	4294318.803	8410	20-Dec-13	ALEX122013.SSF	512234.333	29891
721998.434	4294318.519	7112	20-Dec-13	ALEX122013.SSF	512235.3679	29892
721998.049	4294318.373	8018	20-Dec-13	ALEX122013.SSF	512236.3459	29893
721997.554	4294318.258	7914	20-Dec-13	ALEX122013.SSF	512237.3899	29894
721997.089	4294318.015	7678	20-Dec-13	ALEX122013.SSF	512238.3789	29895
721996.81	4294317.809	7799	20-Dec-13	ALEX122013.SSF	512239.4399	29896
721996.787	4294317.672	8190	20-Dec-13	ALEX122013.SSF	512240.3049	29897
721996.735	4294317.57	9277	20-Dec-13	ALEX122013.SSF	512241.363	29898
721996.561	4294317.65	8619	20-Dec-13	ALEX122013.SSF	512242.2739	29899
721996.693	4294317.66	8424	20-Dec-13	ALEX122013.SSF	512243.325	29900
721996.742	4294317.463	8346	20-Dec-13	ALEX122013.SSF	512244.3049	29901
721996.758	4294317.211	8476	20-Dec-13	ALEX122013.SSF	512245.374	29902
721997.017	4294317.029	8659	20-Dec-13	ALEX122013.SSF	512246.373	29903
721997.257	4294316.904	8194	20-Dec-13	ALEX122013.SSF	512247.335	29904
721997.378	4294316.821	8117	20-Dec-13	ALEX122013.SSF	512248.3601	29905
721997.429	4294316.763	7779	20-Dec-13	ALEX122013.SSF	512249.407	29906
721997.395	4294316.757	8245	20-Dec-13	ALEX122013.SSF	512250.3679	29907
721997.226	4294316.751	8781	20-Dec-13	ALEX122013.SSF	512251.355	29908
721997.112	4294316.529	8165	20-Dec-13	ALEX122013.SSF	512252.3101	29909

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721997.176	4294316.212	8881	20-Dec-13	ALEX122013.SSF	512253.4141	29910
721997.289	4294316.071	7800	20-Dec-13	ALEX122013.SSF	512254.366	29911
721997.38	4294316.175	8550	20-Dec-13	ALEX122013.SSF	512255.2749	29912
721997.493	4294316.495	9157	20-Dec-13	ALEX122013.SSF	512256.229	29913
721997.802	4294316.824	8859	20-Dec-13	ALEX122013.SSF	512257.2839	29914
721998.132	4294317.001	8245	20-Dec-13	ALEX122013.SSF	512258.251	29915
721998.567	4294317.23	8001	20-Dec-13	ALEX122013.SSF	512259.2241	29916
721999.139	4294317.541	7250	20-Dec-13	ALEX122013.SSF	512260.2581	29917
721999.725	4294317.712	7692	20-Dec-13	ALEX122013.SSF	512261.2881	29918
722000.208	4294317.926	9753	20-Dec-13	ALEX122013.SSF	512262.24	29919
722000.577	4294318.143	8708	20-Dec-13	ALEX122013.SSF	512263.353	29920
722000.774	4294318.424	8357	20-Dec-13	ALEX122013.SSF	512264.292	29921
722001.026	4294318.74	8719	20-Dec-13	ALEX122013.SSF	512265.292	29922
722001.365	4294319.144	8299	20-Dec-13	ALEX122013.SSF	512266.272	29923
722001.64	4294319.596	8405	20-Dec-13	ALEX122013.SSF	512267.2681	29924
722001.842	4294319.996	7471	20-Dec-13	ALEX122013.SSF	512268.2451	29925
722002.17	4294320.317	9277	20-Dec-13	ALEX122013.SSF	512269.29	29926
722002.563	4294320.58	8289	20-Dec-13	ALEX122013.SSF	512270.3081	29927
722002.965	4294320.772	8492	20-Dec-13	ALEX122013.SSF	512271.28	29928
722003.356	4294321.043	7433	20-Dec-13	ALEX122013.SSF	512272.2881	29929
722003.739	4294321.275	8848	20-Dec-13	ALEX122013.SSF	512273.3149	29930
722003.999	4294321.521	8422	20-Dec-13	ALEX122013.SSF	512274.2959	29931
722004.243	4294321.805	8405	20-Dec-13	ALEX122013.SSF	512275.3201	29932
722004.499	4294322.112	7741	20-Dec-13	ALEX122013.SSF	512276.304	29933
722004.812	4294322.352	6675	20-Dec-13	ALEX122013.SSF	512277.3191	29934
722005.114	4294322.642	8658	20-Dec-13	ALEX122013.SSF	512278.3931	29935
722005.4	4294322.848	8704	20-Dec-13	ALEX122013.SSF	512279.3201	29936
722005.709	4294323.088	8732	20-Dec-13	ALEX122013.SSF	512280.281	29937
722006.065	4294323.33	7541	20-Dec-13	ALEX122013.SSF	512281.3101	29938
722006.394	4294323.615	8155	20-Dec-13	ALEX122013.SSF	512282.312	29939
722006.689	4294323.807	8279	20-Dec-13	ALEX122013.SSF	512283.334	29940
722006.916	4294324.054	8489	20-Dec-13	ALEX122013.SSF	512284.3169	29941
722007.185	4294324.287	8512	20-Dec-13	ALEX122013.SSF	512285.29	29942
722007.484	4294324.572	7438	20-Dec-13	ALEX122013.SSF	512286.325	29943
722007.753	4294324.831	8099	20-Dec-13	ALEX122013.SSF	512287.333	29944
722007.945	4294325.134	8445	20-Dec-13	ALEX122013.SSF	512288.333	29945
722008.105	4294325.433	9251	20-Dec-13	ALEX122013.SSF	512289.3511	29946
722008.272	4294325.697	9272	20-Dec-13	ALEX122013.SSF	512290.2771	29947
722008.494	4294325.914	8888	20-Dec-13	ALEX122013.SSF	512291.2471	29948
722008.727	4294326.088	8732	20-Dec-13	ALEX122013.SSF	512292.2959	29949
722008.989	4294326.26	8033	20-Dec-13	ALEX122013.SSF	512293.311	29950
722009.302	4294326.462	7858	20-Dec-13	ALEX122013.SSF	512294.2881	29951
722009.627	4294326.673	8894	20-Dec-13	ALEX122013.SSF	512295.3069	29952
722009.876	4294326.855	8763	20-Dec-13	ALEX122013.SSF	512296.2849	29953
722010.151	4294326.96	7920	20-Dec-13	ALEX122013.SSF	512297.291	29954
722010.371	4294327.05	7470	20-Dec-13	ALEX122013.SSF	512298.165	29955
722010.711	4294327.235	8587	20-Dec-13	ALEX122013.SSF	512299.2791	29956

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722011.071	4294327.422	8867	20-Dec-13	ALEX122013.SSF	512300.292	29957
722011.467	4294327.622	7646	20-Dec-13	ALEX122013.SSF	512301.333	29958
722011.822	4294327.873	7971	20-Dec-13	ALEX122013.SSF	512302.26	29959
722012.255	4294328.24	8443	20-Dec-13	ALEX122013.SSF	512303.2981	29960
722012.63	4294328.397	9640	20-Dec-13	ALEX122013.SSF	512304.167	29961
722013.115	4294328.665	8590	20-Dec-13	ALEX122013.SSF	512305.3701	29962
722013.413	4294328.85	8717	20-Dec-13	ALEX122013.SSF	512306.261	29963
722013.749	4294329.262	9619	20-Dec-13	ALEX122013.SSF	512307.4529	29964
722013.971	4294329.501	8734	20-Dec-13	ALEX122013.SSF	512308.2939	29965
722014.211	4294329.688	8663	20-Dec-13	ALEX122013.SSF	512309.2891	29966
722014.423	4294329.787	8976	20-Dec-13	ALEX122013.SSF	512310.2681	29967
722014.617	4294329.944	8184	20-Dec-13	ALEX122013.SSF	512311.262	29968
722014.836	4294330.082	7686	20-Dec-13	ALEX122013.SSF	512312.2361	29969
722015.068	4294330.351	8881	20-Dec-13	ALEX122013.SSF	512313.239	29970
722015.286	4294330.6	7260	20-Dec-13	ALEX122013.SSF	512314.2339	29971
722015.491	4294330.905	8265	20-Dec-13	ALEX122013.SSF	512315.3159	29972
722015.689	4294331.094	8152	20-Dec-13	ALEX122013.SSF	512316.3191	29973
722015.846	4294331.352	7784	20-Dec-13	ALEX122013.SSF	512317.374	29974
722016.031	4294331.513	7946	20-Dec-13	ALEX122013.SSF	512318.2729	29975
722016.27	4294331.757	7896	20-Dec-13	ALEX122013.SSF	512319.364	29976
722016.472	4294331.925	8328	20-Dec-13	ALEX122013.SSF	512320.2749	29977
722016.714	4294332.176	7971	20-Dec-13	ALEX122013.SSF	512321.304	29978
722016.968	4294332.376	8772	20-Dec-13	ALEX122013.SSF	512322.304	29979
722017.152	4294332.604	8193	20-Dec-13	ALEX122013.SSF	512323.293	29980
722017.315	4294332.723	10268	20-Dec-13	ALEX122013.SSF	512324.239	29981
722017.465	4294332.889	9887	20-Dec-13	ALEX122013.SSF	512325.314	29982
722017.638	4294333.029	8741	20-Dec-13	ALEX122013.SSF	512326.2881	29983
722017.89	4294333.252	7915	20-Dec-13	ALEX122013.SSF	512327.355	29984
722018.182	4294333.319	8189	20-Dec-13	ALEX122013.SSF	512328.1951	29985
722017.753	4294331.548	8727	20-Dec-13	ALEX122013.SSF	512352.438	29986
722017.754	4294331.545	8482	20-Dec-13	ALEX122013.SSF	512353.354	29987
722017.635	4294331.573	8600	20-Dec-13	ALEX122013.SSF	512354.353	29988
722017.541	4294331.467	8720	20-Dec-13	ALEX122013.SSF	512355.323	29989
722017.469	4294331.255	8690	20-Dec-13	ALEX122013.SSF	512356.3049	29990
722017.271	4294331.044	8622	20-Dec-13	ALEX122013.SSF	512357.3181	29991
722017.034	4294330.766	7525	20-Dec-13	ALEX122013.SSF	512358.353	29992
722016.801	4294330.493	7671	20-Dec-13	ALEX122013.SSF	512359.3301	29993
722016.53	4294330.315	8667	20-Dec-13	ALEX122013.SSF	512360.189	29994
722016.139	4294330.163	8167	20-Dec-13	ALEX122013.SSF	512361.2971	29995
722015.985	4294330.122	8221	20-Dec-13	ALEX122013.SSF	512362.314	29996
722016.12	4294330.03	8415	20-Dec-13	ALEX122013.SSF	512363.3579	29997
722016.157	4294329.906	8163	20-Dec-13	ALEX122013.SSF	512364.3201	29998
722016.14	4294329.751	9241	20-Dec-13	ALEX122013.SSF	512365.3291	29999
722016.126	4294329.491	8700	20-Dec-13	ALEX122013.SSF	512366.2991	30000
722015.858	4294329.232	8265	20-Dec-13	ALEX122013.SSF	512367.373	30001
722015.645	4294329	8546	20-Dec-13	ALEX122013.SSF	512368.175	30002
722015.35	4294328.699	8106	20-Dec-13	ALEX122013.SSF	512369.384	30003

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722015.076	4294328.537	8176	20-Dec-13	ALEX122013.SSF	512370.3181	30004
722014.78	4294328.35	8194	20-Dec-13	ALEX122013.SSF	512371.3059	30005
722014.431	4294328.146	8828	20-Dec-13	ALEX122013.SSF	512372.2781	30006
722014.003	4294327.97	8057	20-Dec-13	ALEX122013.SSF	512373.343	30007
722013.443	4294327.945	8014	20-Dec-13	ALEX122013.SSF	512374.3149	30008
722012.838	4294327.687	9233	20-Dec-13	ALEX122013.SSF	512375.3879	30009
722012.413	4294327.372	8488	20-Dec-13	ALEX122013.SSF	512376.3721	30010
722012.123	4294327.028	8482	20-Dec-13	ALEX122013.SSF	512377.3911	30011
722011.944	4294326.722	9470	20-Dec-13	ALEX122013.SSF	512378.3669	30012
722011.732	4294326.424	8427	20-Dec-13	ALEX122013.SSF	512379.397	30013
722011.539	4294326.187	9277	20-Dec-13	ALEX122013.SSF	512380.1831	30014
722011.197	4294325.86	8049	20-Dec-13	ALEX122013.SSF	512381.2981	30015
722010.921	4294325.617	8222	20-Dec-13	ALEX122013.SSF	512382.2681	30016
722010.574	4294325.336	8265	20-Dec-13	ALEX122013.SSF	512383.4419	30017
722010.276	4294325.133	8096	20-Dec-13	ALEX122013.SSF	512384.2681	30018
722009.771	4294324.818	8894	20-Dec-13	ALEX122013.SSF	512385.303	30019
722009.249	4294324.487	8373	20-Dec-13	ALEX122013.SSF	512386.291	30020
722008.756	4294324.234	8933	20-Dec-13	ALEX122013.SSF	512387.3059	30021
722008.354	4294323.919	8833	20-Dec-13	ALEX122013.SSF	512388.175	30022
722007.851	4294323.549	9438	20-Dec-13	ALEX122013.SSF	512389.3149	30023
722007.555	4294323.214	9199	20-Dec-13	ALEX122013.SSF	512390.165	30024
722007.156	4294322.807	8689	20-Dec-13	ALEX122013.SSF	512391.2759	30025
722006.819	4294322.496	7842	20-Dec-13	ALEX122013.SSF	512392.2581	30026
722006.521	4294322.334	7960	20-Dec-13	ALEX122013.SSF	512393.3	30027
722006.258	4294322.179	7900	20-Dec-13	ALEX122013.SSF	512394.2351	30028
722006.175	4294322.042	8815	20-Dec-13	ALEX122013.SSF	512395.314	30029
722006.226	4294321.758	7903	20-Dec-13	ALEX122013.SSF	512396.3091	30030
722006.136	4294321.347	7376	20-Dec-13	ALEX122013.SSF	512397.2859	30031
722005.936	4294321.015	8804	20-Dec-13	ALEX122013.SSF	512398.3379	30032
722005.734	4294320.768	9161	20-Dec-13	ALEX122013.SSF	512399.321	30033
722005.489	4294320.54	8020	20-Dec-13	ALEX122013.SSF	512400.2229	30034
722005.141	4294320.255	7075	20-Dec-13	ALEX122013.SSF	512401.3269	30035
722004.8	4294320.033	7588	20-Dec-13	ALEX122013.SSF	512402.282	30036
722004.419	4294319.825	6787	20-Dec-13	ALEX122013.SSF	512403.2581	30037
722004.078	4294319.676	7066	20-Dec-13	ALEX122013.SSF	512404.1411	30038
722003.564	4294319.401	7466	20-Dec-13	ALEX122013.SSF	512405.311	30039
722003.138	4294319.181	7806	20-Dec-13	ALEX122013.SSF	512406.2539	30040
722002.692	4294318.983	8401	20-Dec-13	ALEX122013.SSF	512407.3149	30041
722002.19	4294318.898	8280	20-Dec-13	ALEX122013.SSF	512408.28	30042
722001.659	4294318.607	8880	20-Dec-13	ALEX122013.SSF	512409.3181	30043
722001.273	4294318.267	8340	20-Dec-13	ALEX122013.SSF	512410.304	30044
722001.081	4294317.918	8175	20-Dec-13	ALEX122013.SSF	512411.4189	30045
722000.952	4294317.726	8283	20-Dec-13	ALEX122013.SSF	512412.3049	30046
722000.606	4294317.46	7351	20-Dec-13	ALEX122013.SSF	512413.3821	30047
722000.185	4294317.248	7957	20-Dec-13	ALEX122013.SSF	512414.3921	30048
721999.855	4294317.052	8889	20-Dec-13	ALEX122013.SSF	512415.3069	30049
721999.551	4294316.964	7142	20-Dec-13	ALEX122013.SSF	512416.145	30050

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721999.14	4294316.755	7125	20-Dec-13	ALEX122013.SSF	512417.26	30051
721998.808	4294316.6	8201	20-Dec-13	ALEX122013.SSF	512418.2271	30052
721998.488	4294316.442	7960	20-Dec-13	ALEX122013.SSF	512419.24	30053
721998.297	4294316.274	8650	20-Dec-13	ALEX122013.SSF	512420.1799	30054
721998.23	4294316.085	8012	20-Dec-13	ALEX122013.SSF	512421.3789	30055
721998.376	4294315.974	7973	20-Dec-13	ALEX122013.SSF	512422.21	30056
721998.442	4294315.948	7573	20-Dec-13	ALEX122013.SSF	512423.3401	30057
721998.227	4294316.009	8193	20-Dec-13	ALEX122013.SSF	512424.385	30058
721998.243	4294315.925	7808	20-Dec-13	ALEX122013.SSF	512425.3201	30059
721998.591	4294315.64	7592	20-Dec-13	ALEX122013.SSF	512426.1431	30060
721999.046	4294315.26	8258	20-Dec-13	ALEX122013.SSF	512427.272	30061
721999.18	4294315.276	7674	20-Dec-13	ALEX122013.SSF	512428.2949	30062
721999.477	4294315.384	8848	20-Dec-13	ALEX122013.SSF	512429.4199	30063
721999.594	4294315.298	7912	20-Dec-13	ALEX122013.SSF	512430.1899	30064
721999.423	4294314.941	8458	20-Dec-13	ALEX122013.SSF	512431.261	30065
721999.313	4294314.413	8054	20-Dec-13	ALEX122013.SSF	512432.3311	30066
721999.278	4294314.164	8193	20-Dec-13	ALEX122013.SSF	512433.322	30067
721998.805	4294314.4	8021	20-Dec-13	ALEX122013.SSF	512481.5	30068
721998.805	4294314.4	8755	20-Dec-13	ALEX122013.SSF	512481.501	30069
721998.798	4294314.389	7558	20-Dec-13	ALEX122013.SSF	512482.1909	30070
721998.844	4294314.411	8879	20-Dec-13	ALEX122013.SSF	512483.2549	30071
721999.007	4294314.547	9120	20-Dec-13	ALEX122013.SSF	512484.3391	30072
721998.878	4294314.599	7695	20-Dec-13	ALEX122013.SSF	512485.2971	30073
721998.603	4294314.479	8403	20-Dec-13	ALEX122013.SSF	512486.168	30074
721998.72	4294314.251	8190	20-Dec-13	ALEX122013.SSF	512487.3799	30075
721998.962	4294314.302	8497	20-Dec-13	ALEX122013.SSF	512488.217	30076
721999.346	4294314.481	7494	20-Dec-13	ALEX122013.SSF	512489.324	30077
721999.618	4294314.713	8293	20-Dec-13	ALEX122013.SSF	512490.0969	30078
722000.109	4294315.04	7533	20-Dec-13	ALEX122013.SSF	512491.2681	30079
722000.508	4294315.332	8123	20-Dec-13	ALEX122013.SSF	512492.092	30080
722000.949	4294315.82	8360	20-Dec-13	ALEX122013.SSF	512493.311	30081
722001.191	4294316.18	8180	20-Dec-13	ALEX122013.SSF	512494.2451	30082
722001.375	4294316.5	7985	20-Dec-13	ALEX122013.SSF	512495.228	30083
722001.545	4294316.778	8926	20-Dec-13	ALEX122013.SSF	512496.3621	30084
722001.728	4294316.937	8471	20-Dec-13	ALEX122013.SSF	512497.2891	30085
722001.957	4294317.086	7968	20-Dec-13	ALEX122013.SSF	512498.1731	30086
722002.294	4294317.312	7302	20-Dec-13	ALEX122013.SSF	512499.252	30087
722002.568	4294317.454	7555	20-Dec-13	ALEX122013.SSF	512500.1899	30088
722002.902	4294317.587	8159	20-Dec-13	ALEX122013.SSF	512501.188	30089
722003.315	4294317.637	7619	20-Dec-13	ALEX122013.SSF	512502.177	30090
722003.731	4294317.821	7725	20-Dec-13	ALEX122013.SSF	512503.2639	30091
722004.134	4294317.948	7061	20-Dec-13	ALEX122013.SSF	512504.2959	30092
722004.509	4294318.162	7375	20-Dec-13	ALEX122013.SSF	512505.2939	30093
722004.848	4294318.411	8263	20-Dec-13	ALEX122013.SSF	512506.218	30094
722005.223	4294318.738	7736	20-Dec-13	ALEX122013.SSF	512507.2859	30095
722005.568	4294318.975	7964	20-Dec-13	ALEX122013.SSF	512508.3181	30096
722005.941	4294319.282	8171	20-Dec-13	ALEX122013.SSF	512509.3259	30097

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722006.23	4294319.532	8042	20-Dec-13	ALEX122013.SSF	512510.208	30098
722006.428	4294319.849	7980	20-Dec-13	ALEX122013.SSF	512511.24	30099
722006.541	4294320.104	8565	20-Dec-13	ALEX122013.SSF	512512.2009	30100
722006.827	4294320.44	8231	20-Dec-13	ALEX122013.SSF	512513.292	30101
722007.093	4294320.741	8928	20-Dec-13	ALEX122013.SSF	512514.2671	30102
722007.358	4294321.069	8232	20-Dec-13	ALEX122013.SSF	512515.343	30103
722007.561	4294321.312	8028	20-Dec-13	ALEX122013.SSF	512516.155	30104
722007.813	4294321.728	7707	20-Dec-13	ALEX122013.SSF	512517.3301	30105
722008.013	4294321.996	8376	20-Dec-13	ALEX122013.SSF	512518.303	30106
722008.269	4294322.27	8334	20-Dec-13	ALEX122013.SSF	512519.3411	30107
722008.549	4294322.579	8353	20-Dec-13	ALEX122013.SSF	512520.3259	30108
722008.796	4294322.862	8028	20-Dec-13	ALEX122013.SSF	512521.219	30109
722009.148	4294323.136	8607	20-Dec-13	ALEX122013.SSF	512522.2581	30110
722009.46	4294323.386	8931	20-Dec-13	ALEX122013.SSF	512523.2461	30111
722009.772	4294323.575	8113	20-Dec-13	ALEX122013.SSF	512524.2319	30112
722010.094	4294323.758	8178	20-Dec-13	ALEX122013.SSF	512525.3379	30113
722010.391	4294323.922	9424	20-Dec-13	ALEX122013.SSF	512526.3191	30114
722010.639	4294324.16	8866	20-Dec-13	ALEX122013.SSF	512527.387	30115
722010.846	4294324.407	8126	20-Dec-13	ALEX122013.SSF	512528.353	30116
722011.028	4294324.705	8391	20-Dec-13	ALEX122013.SSF	512529.2471	30117
722011.226	4294324.996	8338	20-Dec-13	ALEX122013.SSF	512530.217	30118
722011.45	4294325.267	7934	20-Dec-13	ALEX122013.SSF	512531.3301	30119
722011.66	4294325.431	8193	20-Dec-13	ALEX122013.SSF	512532.1741	30120
722011.949	4294325.585	8528	20-Dec-13	ALEX122013.SSF	512533.25	30121
722012.24	4294325.724	8222	20-Dec-13	ALEX122013.SSF	512534.1741	30122
722012.61	4294325.927	7665	20-Dec-13	ALEX122013.SSF	512535.324	30123
722012.845	4294326.025	7436	20-Dec-13	ALEX122013.SSF	512536.241	30124
722013.027	4294326.163	7109	20-Dec-13	ALEX122013.SSF	512537.3181	30125
722013.201	4294326.265	7357	20-Dec-13	ALEX122013.SSF	512538.083	30126
722013.448	4294326.471	8169	20-Dec-13	ALEX122013.SSF	512539.1699	30127
722013.715	4294326.659	8792	20-Dec-13	ALEX122013.SSF	512540.1121	30128
722014.098	4294326.949	8738	20-Dec-13	ALEX122013.SSF	512541.301	30129
722014.353	4294327.136	9174	20-Dec-13	ALEX122013.SSF	512542.2	30130
722014.581	4294327.312	8893	20-Dec-13	ALEX122013.SSF	512543.311	30131
722014.879	4294327.495	8223	20-Dec-13	ALEX122013.SSF	512544.2629	30132
722015.27	4294327.687	8535	20-Dec-13	ALEX122013.SSF	512545.3411	30133
722015.551	4294327.837	8253	20-Dec-13	ALEX122013.SSF	512546.2141	30134
722015.764	4294328.124	7913	20-Dec-13	ALEX122013.SSF	512547.2029	30135
722016.081	4294328.448	8368	20-Dec-13	ALEX122013.SSF	512548.3779	30136
722016.266	4294328.661	7522	20-Dec-13	ALEX122013.SSF	512549.229	30137
722016.489	4294328.914	9500	20-Dec-13	ALEX122013.SSF	512550.1621	30138
722016.852	4294329.325	8675	20-Dec-13	ALEX122013.SSF	512551.2881	30139
722017.235	4294329.635	8528	20-Dec-13	ALEX122013.SSF	512552.2891	30140
722017.488	4294329.963	9122	20-Dec-13	ALEX122013.SSF	512553.2629	30141
722017.745	4294330.177	8910	20-Dec-13	ALEX122013.SSF	512554.1211	30142
722018.012	4294330.487	9367	20-Dec-13	ALEX122013.SSF	512555.1841	30143
722018.343	4294330.698	9212	20-Dec-13	ALEX122013.SSF	512556.1599	30144

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722018.662	4294330.932	7703	20-Dec-13	ALEX122013.SSF	512557.176	30145
722018.991	4294330.998	7205	20-Dec-13	ALEX122013.SSF	512558.1101	30146
722019.28	4294331.207	8131	20-Dec-13	ALEX122013.SSF	512559.283	30147
722019.458	4294331.307	8572	20-Dec-13	ALEX122013.SSF	512560.0769	30148
722019.749	4294331.518	8503	20-Dec-13	ALEX122013.SSF	512561.3	30149
722019.792	4294331.695	8786	20-Dec-13	ALEX122013.SSF	512562.2549	30150
722019.83	4294331.754	8646	20-Dec-13	ALEX122013.SSF	512563.179	30151
722019.559	4294331.866	8521	20-Dec-13	ALEX122013.SSF	512564.187	30152
722019.225	4294331.967	7020	20-Dec-13	ALEX122013.SSF	512565.2219	30153
722019.178	4294331.941	8925	20-Dec-13	ALEX122013.SSF	512566.23	30154
722019.496	4294331.724	8921	20-Dec-13	ALEX122013.SSF	512567.1919	30155
722020.262	4294331.217	7900	20-Dec-13	ALEX122013.SSF	512568.197	30156
722020.699	4294330.863	9055	20-Dec-13	ALEX122013.SSF	512569.1951	30157
722020.722	4294330.805	8593	20-Dec-13	ALEX122013.SSF	512570.186	30158
722020.561	4294330.948	8538	20-Dec-13	ALEX122013.SSF	512571.2141	30159
722020.47	4294331.155	7294	20-Dec-13	ALEX122013.SSF	512572.1101	30160
722020.643	4294330.925	7613	20-Dec-13	ALEX122013.SSF	512573.1741	30161
722020.951	4294330.781	7573	20-Dec-13	ALEX122013.SSF	512574.074	30162
722021.175	4294330.754	7323	20-Dec-13	ALEX122013.SSF	512575.2351	30163
722021.144	4294330.752	7800	20-Dec-13	ALEX122013.SSF	512576.0879	30164
722021.08	4294330.717	8040	20-Dec-13	ALEX122013.SSF	512577.2461	30165
722021.055	4294330.682	8610	20-Dec-13	ALEX122013.SSF	512578.0769	30166
722020.895	4294330.599	8242	20-Dec-13	ALEX122013.SSF	512579.2561	30167
722020.622	4294330.486	8150	20-Dec-13	ALEX122013.SSF	512580.2839	30168
722020.255	4294330.383	7917	20-Dec-13	ALEX122013.SSF	512581.283	30169
722019.942	4294330.236	9449	20-Dec-13	ALEX122013.SSF	512582.165	30170
722019.56	4294330.019	8482	20-Dec-13	ALEX122013.SSF	512583.2949	30171
722019.287	4294329.803	8870	20-Dec-13	ALEX122013.SSF	512584.2529	30172
722019.003	4294329.552	8937	20-Dec-13	ALEX122013.SSF	512585.3101	30173
722018.745	4294329.305	8294	20-Dec-13	ALEX122013.SSF	512586.366	30174
722018.548	4294329.099	8103	20-Dec-13	ALEX122013.SSF	512587.271	30175
722018.317	4294328.88	8205	20-Dec-13	ALEX122013.SSF	512588.283	30176
722018.012	4294328.643	8351	20-Dec-13	ALEX122013.SSF	512589.3411	30177
722017.732	4294328.299	7998	20-Dec-13	ALEX122013.SSF	512590.333	30178
722017.464	4294327.97	8359	20-Dec-13	ALEX122013.SSF	512591.325	30179
722017.252	4294327.678	8359	20-Dec-13	ALEX122013.SSF	512592.2109	30180
722016.964	4294327.425	8360	20-Dec-13	ALEX122013.SSF	512593.2041	30181
722016.674	4294327.099	10190	20-Dec-13	ALEX122013.SSF	512594.2959	30182
722016.393	4294326.869	8397	20-Dec-13	ALEX122013.SSF	512595.22	30183
722016.122	4294326.639	8999	20-Dec-13	ALEX122013.SSF	512596.0859	30184
722015.831	4294326.405	9150	20-Dec-13	ALEX122013.SSF	512597.114	30185
722015.568	4294326.159	8317	20-Dec-13	ALEX122013.SSF	512598.0869	30186
722015.186	4294325.991	9369	20-Dec-13	ALEX122013.SSF	512599.228	30187
722014.852	4294325.831	9062	20-Dec-13	ALEX122013.SSF	512600.2561	30188
722014.6	4294325.613	9045	20-Dec-13	ALEX122013.SSF	512601.269	30189
722014.405	4294325.359	7871	20-Dec-13	ALEX122013.SSF	512602.304	30190
722014.24	4294325.221	7908	20-Dec-13	ALEX122013.SSF	512603.375	30191

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722014.095	4294325.229	8127	20-Dec-13	ALEX122013.SSF	512604.3159	30192
722013.974	4294325.146	7581	20-Dec-13	ALEX122013.SSF	512605.2319	30193
722013.832	4294324.972	8435	20-Dec-13	ALEX122013.SSF	512606.0991	30194
722013.556	4294324.792	9938	20-Dec-13	ALEX122013.SSF	512607.175	30195
722013.262	4294324.565	8394	20-Dec-13	ALEX122013.SSF	512608.1021	30196
722012.925	4294324.258	8368	20-Dec-13	ALEX122013.SSF	512609.282	30197
722012.675	4294324.05	9112	20-Dec-13	ALEX122013.SSF	512610.1689	30198
722012.303	4294323.817	8668	20-Dec-13	ALEX122013.SSF	512611.2061	30199
722011.977	4294323.531	8557	20-Dec-13	ALEX122013.SSF	512612.127	30200
722011.561	4294323.181	8289	20-Dec-13	ALEX122013.SSF	512613.272	30201
722011.267	4294322.861	9662	20-Dec-13	ALEX122013.SSF	512614.051	30202
722010.926	4294322.454	9135	20-Dec-13	ALEX122013.SSF	512615.188	30203
722010.683	4294322.128	9273	20-Dec-13	ALEX122013.SSF	512616.1321	30204
722010.478	4294321.798	8378	20-Dec-13	ALEX122013.SSF	512617.2151	30205
722010.342	4294321.554	8004	20-Dec-13	ALEX122013.SSF	512618.0791	30206
722010.205	4294321.351	8211	20-Dec-13	ALEX122013.SSF	512619.156	30207
722010.019	4294321.245	8442	20-Dec-13	ALEX122013.SSF	512620.116	30208
722009.765	4294321.008	7450	20-Dec-13	ALEX122013.SSF	512621.197	30209
722009.583	4294320.771	8012	20-Dec-13	ALEX122013.SSF	512622.124	30210
722009.3	4294320.554	8993	20-Dec-13	ALEX122013.SSF	512623.252	30211
722009.06	4294320.351	8728	20-Dec-13	ALEX122013.SSF	512624.1489	30212
722008.768	4294320.075	8362	20-Dec-13	ALEX122013.SSF	512625.3181	30213
722008.547	4294319.843	9560	20-Dec-13	ALEX122013.SSF	512626.2229	30214
722008.221	4294319.536	8210	20-Dec-13	ALEX122013.SSF	512627.241	30215
722007.835	4294319.276	8382	20-Dec-13	ALEX122013.SSF	512628.209	30216
722007.434	4294319.095	8155	20-Dec-13	ALEX122013.SSF	512629.291	30217
722007.149	4294318.992	9629	20-Dec-13	ALEX122013.SSF	512630.115	30218
722006.778	4294318.773	8287	20-Dec-13	ALEX122013.SSF	512631.2251	30219
722006.491	4294318.716	7861	20-Dec-13	ALEX122013.SSF	512632.0491	30220
722006.097	4294318.564	7785	20-Dec-13	ALEX122013.SSF	512633.3091	30221
722005.864	4294318.5	7076	20-Dec-13	ALEX122013.SSF	512634.1001	30222
722005.466	4294318.36	7499	20-Dec-13	ALEX122013.SSF	512635.3269	30223
722005.244	4294318.193	8085	20-Dec-13	ALEX122013.SSF	512636.106	30224
722004.989	4294317.948	7601	20-Dec-13	ALEX122013.SSF	512637.1389	30225
722004.796	4294317.741	6850	20-Dec-13	ALEX122013.SSF	512638.105	30226
722004.484	4294317.507	7352	20-Dec-13	ALEX122013.SSF	512639.1919	30227
722004.32	4294317.285	8438	20-Dec-13	ALEX122013.SSF	512640.0171	30228
722004.073	4294317.03	8229	20-Dec-13	ALEX122013.SSF	512641.156	30229
722003.776	4294316.842	8237	20-Dec-13	ALEX122013.SSF	512642.0229	30230
722003.414	4294316.529	7579	20-Dec-13	ALEX122013.SSF	512643.104	30231
722003.076	4294316.398	8134	20-Dec-13	ALEX122013.SSF	512644.02	30232
722002.704	4294316.081	7733	20-Dec-13	ALEX122013.SSF	512645.1279	30233
722002.405	4294315.861	7183	20-Dec-13	ALEX122013.SSF	512646.0481	30234
722001.997	4294315.479	8186	20-Dec-13	ALEX122013.SSF	512647.1299	30235
722001.772	4294315.258	7956	20-Dec-13	ALEX122013.SSF	512648.0581	30236
722001.611	4294314.966	7149	20-Dec-13	ALEX122013.SSF	512649.1431	30237
722001.481	4294314.684	7427	20-Dec-13	ALEX122013.SSF	512650.1389	30238

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722001.176	4294314.332	7766	20-Dec-13	ALEX122013.SSF	512651.301	30239
722000.992	4294314.115	8961	20-Dec-13	ALEX122013.SSF	512652.105	30240
722000.809	4294313.812	8480	20-Dec-13	ALEX122013.SSF	512653.323	30241
722000.683	4294313.622	8980	20-Dec-13	ALEX122013.SSF	512654.1621	30242
722000.558	4294313.378	7527	20-Dec-13	ALEX122013.SSF	512655.3181	30243
722000.494	4294313.247	8152	20-Dec-13	ALEX122013.SSF	512656.064	30244
722000.518	4294313.135	7948	20-Dec-13	ALEX122013.SSF	512657.124	30245
722000.596	4294313.002	9037	20-Dec-13	ALEX122013.SSF	512658.1211	30246
722000.421	4294312.99	8589	20-Dec-13	ALEX122013.SSF	512659.186	30247
722000.079	4294313.212	8807	20-Dec-13	ALEX122013.SSF	512660.1631	30248
722000.283	4294313.25	9221	20-Dec-13	ALEX122013.SSF	512661.2891	30249
722000.584	4294313.124	8455	20-Dec-13	ALEX122013.SSF	512662.1299	30250
722000.445	4294312.921	8054	20-Dec-13	ALEX122013.SSF	512663.2029	30251
722000.578	4294312.584	8163	20-Dec-13	ALEX122013.SSF	512664.157	30252
722001.076	4294312.369	7890	20-Dec-13	ALEX122013.SSF	512665.1541	30253
722001.117	4294312.337	8452	20-Dec-13	ALEX122013.SSF	512666.0859	30254
722000.86	4294312.465	8803	20-Dec-13	ALEX122013.SSF	512667.3181	30255
722000.605	4294312.623	8771	20-Dec-13	ALEX122013.SSF	512668.103	30256
722000.448	4294312.65	7592	20-Dec-13	ALEX122013.SSF	512669.228	30257
722000.426	4294312.683	8228	20-Dec-13	ALEX122013.SSF	512670.0859	30258
722000.397	4294312.869	7937	20-Dec-13	ALEX122013.SSF	512671.2229	30259
722000.333	4294312.903	8194	20-Dec-13	ALEX122013.SSF	512672.031	30260
722000.247	4294312.857	8198	20-Dec-13	ALEX122013.SSF	512673.1201	30261
722000.116	4294312.742	8439	20-Dec-13	ALEX122013.SSF	512674.031	30262
721999.927	4294312.529	8410	20-Dec-13	ALEX122013.SSF	512675.2781	30263
721999.832	4294312.484	8432	20-Dec-13	ALEX122013.SSF	512676.103	30264
721999.79	4294312.547	8168	20-Dec-13	ALEX122013.SSF	512677.1909	30265
721999.857	4294312.673	8342	20-Dec-13	ALEX122013.SSF	512678.103	30266
721999.912	4294312.733	7365	20-Dec-13	ALEX122013.SSF	512679.199	30267
721999.949	4294312.747	8291	20-Dec-13	ALEX122013.SSF	512680.092	30268
722000.097	4294312.817	8733	20-Dec-13	ALEX122013.SSF	512681.229	30269
722000.139	4294312.826	8663	20-Dec-13	ALEX122013.SSF	512682.1279	30270
722000.088	4294312.923	8075	20-Dec-13	ALEX122013.SSF	512683.3701	30271
722000.063	4294312.961	8409	20-Dec-13	ALEX122013.SSF	512684.0991	30272
722000.222	4294313.072	7772	20-Dec-13	ALEX122013.SSF	512685.1521	30273
722000.523	4294313.246	7913	20-Dec-13	ALEX122013.SSF	512686.1909	30274
722000.939	4294313.42	7348	20-Dec-13	ALEX122013.SSF	512687.2971	30275
722001.33	4294313.555	8287	20-Dec-13	ALEX122013.SSF	512688.198	30276
722001.75	4294313.678	8341	20-Dec-13	ALEX122013.SSF	512689.209	30277
722002.101	4294313.852	8895	20-Dec-13	ALEX122013.SSF	512690.0959	30278
722002.544	4294314.038	8163	20-Dec-13	ALEX122013.SSF	512691.3379	30279
722002.849	4294314.171	8131	20-Dec-13	ALEX122013.SSF	512692.115	30280
722003.216	4294314.366	7732	20-Dec-13	ALEX122013.SSF	512693.115	30281
722003.569	4294314.624	7963	20-Dec-13	ALEX122013.SSF	512694.144	30282
722003.919	4294314.799	8081	20-Dec-13	ALEX122013.SSF	512695.1941	30283
722004.266	4294314.936	7570	20-Dec-13	ALEX122013.SSF	512696.1089	30284
722004.639	4294315.148	8252	20-Dec-13	ALEX122013.SSF	512697.3	30285

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722004.858	4294315.326	7883	20-Dec-13	ALEX122013.SSF	512698.0669	30286
722005.152	4294315.65	8000	20-Dec-13	ALEX122013.SSF	512699.314	30287
722005.372	4294315.866	8540	20-Dec-13	ALEX122013.SSF	512700.1851	30288
722005.562	4294316.129	7775	20-Dec-13	ALEX122013.SSF	512701.1768	30289
722005.782	4294316.325	7313	20-Dec-13	ALEX122013.SSF	512702.0708	30290
722006.009	4294316.636	8368	20-Dec-13	ALEX122013.SSF	512703.2939	30291
722006.232	4294316.816	7642	20-Dec-13	ALEX122013.SSF	512704.1738	30292
722006.517	4294317.016	8210	20-Dec-13	ALEX122013.SSF	512705.1802	30293
722006.822	4294317.244	7782	20-Dec-13	ALEX122013.SSF	512706.1558	30294
722007.114	4294317.478	8845	20-Dec-13	ALEX122013.SSF	512707.167	30295
722007.393	4294317.679	8421	20-Dec-13	ALEX122013.SSF	512708.1162	30296
722007.784	4294317.916	7925	20-Dec-13	ALEX122013.SSF	512709.2861	30297
722008.122	4294318.065	8101	20-Dec-13	ALEX122013.SSF	512710.0352	30298
722008.502	4294318.347	8895	20-Dec-13	ALEX122013.SSF	512711.0942	30299
722008.817	4294318.575	9063	20-Dec-13	ALEX122013.SSF	512712.041	30300
722009.122	4294318.813	8746	20-Dec-13	ALEX122013.SSF	512713.291	30301
722009.325	4294318.993	6806	20-Dec-13	ALEX122013.SSF	512714.0449	30302
722009.749	4294319.193	7221	20-Dec-13	ALEX122013.SSF	512715.1611	30303
722010.061	4294319.435	8585	20-Dec-13	ALEX122013.SSF	512716.0391	30304
722010.472	4294319.641	9376	20-Dec-13	ALEX122013.SSF	512717.1479	30305
722010.827	4294319.878	9364	20-Dec-13	ALEX122013.SSF	512718.0908	30306
722011.226	4294320.032	8881	20-Dec-13	ALEX122013.SSF	512719.2378	30307
722011.511	4294320.217	8670	20-Dec-13	ALEX122013.SSF	512720.1089	30308
722011.909	4294320.415	8017	20-Dec-13	ALEX122013.SSF	512721.124	30309
722012.272	4294320.762	9264	20-Dec-13	ALEX122013.SSF	512722.105	30310
722012.615	4294320.932	8106	20-Dec-13	ALEX122013.SSF	512723.105	30311
722012.851	4294321.183	8716	20-Dec-13	ALEX122013.SSF	512724.043	30312
722013.113	4294321.325	8419	20-Dec-13	ALEX122013.SSF	512725.0649	30313
722013.341	4294321.503	7804	20-Dec-13	ALEX122013.SSF	512726.0229	30314
722013.563	4294321.699	8491	20-Dec-13	ALEX122013.SSF	512727.0679	30315
722013.893	4294321.963	8872	20-Dec-13	ALEX122013.SSF	512728.0552	30316
722014.249	4294322.238	8728	20-Dec-13	ALEX122013.SSF	512729.2368	30317
722014.515	4294322.454	8632	20-Dec-13	ALEX122013.SSF	512730.1099	30318
722014.827	4294322.69	7678	20-Dec-13	ALEX122013.SSF	512731.1948	30319
722015.064	4294322.84	8429	20-Dec-13	ALEX122013.SSF	512732.0801	30320
722015.323	4294323.128	8497	20-Dec-13	ALEX122013.SSF	512733.1758	30321
722015.589	4294323.448	8544	20-Dec-13	ALEX122013.SSF	512734.1841	30322
722015.725	4294323.708	8106	20-Dec-13	ALEX122013.SSF	512735.0962	30323
722015.912	4294323.944	8926	20-Dec-13	ALEX122013.SSF	512736.1079	30324
722016.008	4294324.189	8231	20-Dec-13	ALEX122013.SSF	512737.1099	30325
722016.225	4294324.392	8448	20-Dec-13	ALEX122013.SSF	512738.1792	30326
722016.439	4294324.768	8892	20-Dec-13	ALEX122013.SSF	512739.252	30327
722016.712	4294325.046	8823	20-Dec-13	ALEX122013.SSF	512740.1089	30328
722016.99	4294325.409	7275	20-Dec-13	ALEX122013.SSF	512741.2139	30329
722017.22	4294325.562	8268	20-Dec-13	ALEX122013.SSF	512742.189	30330
722017.509	4294325.753	7317	20-Dec-13	ALEX122013.SSF	512743.249	30331
722017.781	4294325.857	9029	20-Dec-13	ALEX122013.SSF	512744.2148	30332

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722018.174	4294326.048	8017	20-Dec-13	ALEX122013.SSF	512745.3252	30333
722018.492	4294326.204	8604	20-Dec-13	ALEX122013.SSF	512746.168	30334
722018.855	4294326.521	8151	20-Dec-13	ALEX122013.SSF	512747.314	30335
722019.059	4294326.686	8157	20-Dec-13	ALEX122013.SSF	512748.0962	30336
722019.353	4294326.889	8879	20-Dec-13	ALEX122013.SSF	512749.1958	30337
722019.58	4294326.965	8010	20-Dec-13	ALEX122013.SSF	512750.104	30338
722019.788	4294327.277	8092	20-Dec-13	ALEX122013.SSF	512751.2769	30339
722019.972	4294327.391	8893	20-Dec-13	ALEX122013.SSF	512752.1841	30340
722020.209	4294327.631	9273	20-Dec-13	ALEX122013.SSF	512753.2168	30341
722020.402	4294327.756	7988	20-Dec-13	ALEX122013.SSF	512754.1172	30342
722020.576	4294328.134	8057	20-Dec-13	ALEX122013.SSF	512755.3188	30343
722020.704	4294328.405	8134	20-Dec-13	ALEX122013.SSF	512756.1538	30344
722020.909	4294328.739	7583	20-Dec-13	ALEX122013.SSF	512757.2119	30345
722021.157	4294328.9	8736	20-Dec-13	ALEX122013.SSF	512758.1182	30346
722021.237	4294329.265	8094	20-Dec-13	ALEX122013.SSF	512759.1919	30347
722021.104	4294329.58	8623	20-Dec-13	ALEX122013.SSF	512760.0801	30348
722021.378	4294329.525	8846	20-Dec-13	ALEX122013.SSF	512761.3018	30349
722021.585	4294329.385	8511	20-Dec-13	ALEX122013.SSF	512762.0688	30350
722021.515	4294329.549	8007	20-Dec-13	ALEX122013.SSF	512763.2349	30351
722021.491	4294329.847	7852	20-Dec-13	ALEX122013.SSF	512764.0859	30352
722021.86	4294329.684	7633	20-Dec-13	ALEX122013.SSF	512765.2319	30353
722022.23	4294329.194	7638	20-Dec-13	ALEX122013.SSF	512766.0601	30354
722022.791	4294328.47	9049	20-Dec-13	ALEX122013.SSF	512767.251	30355
722023.103	4294328.22	7932	20-Dec-13	ALEX122013.SSF	512768.0781	30356
722023.13	4294328.223	7923	20-Dec-13	ALEX122013.SSF	512769.1592	30357
722022.84	4294328.513	7830	20-Dec-13	ALEX122013.SSF	512770.0361	30358
722022.531	4294329.109	8677	20-Dec-13	ALEX122013.SSF	512771.2861	30359
722022.501	4294329.294	8769	20-Dec-13	ALEX122013.SSF	512772.1099	30360
722022.496	4294329.277	7292	20-Dec-13	ALEX122013.SSF	512773.189	30361
722022.426	4294329.142	8273	20-Dec-13	ALEX122013.SSF	512774.1089	30362
722022.608	4294328.959	9448	20-Dec-13	ALEX122013.SSF	512775.2588	30363
722022.69	4294328.967	9262	20-Dec-13	ALEX122013.SSF	512776.1191	30364
722022.595	4294329.059	9665	20-Dec-13	ALEX122013.SSF	512777.1709	30365
722022.421	4294329.155	8552	20-Dec-13	ALEX122013.SSF	512778.0298	30366
722022.345	4294329.072	8374	20-Dec-13	ALEX122013.SSF	512779.2642	30367
722022.398	4294328.942	8993	20-Dec-13	ALEX122013.SSF	512780.085	30368
722022.195	4294328.789	7918	20-Dec-13	ALEX122013.SSF	512781.1641	30369
722021.874	4294328.581	8369	20-Dec-13	ALEX122013.SSF	512782.0879	30370
722021.518	4294328.294	8092	20-Dec-13	ALEX122013.SSF	512783.2578	30371
722021.219	4294327.963	8803	20-Dec-13	ALEX122013.SSF	512784.1362	30372
722020.735	4294327.584	8920	20-Dec-13	ALEX122013.SSF	512785.2031	30373
722020.298	4294327.282	8110	20-Dec-13	ALEX122013.SSF	512786.1309	30374
722019.809	4294326.918	8297	20-Dec-13	ALEX122013.SSF	512787.2432	30375
722019.46	4294326.584	9214	20-Dec-13	ALEX122013.SSF	512788.1191	30376
722019.152	4294326.316	9563	20-Dec-13	ALEX122013.SSF	512789.1221	30377
722018.844	4294326.01	9171	20-Dec-13	ALEX122013.SSF	512790.0698	30378
722018.688	4294325.617	8682	20-Dec-13	ALEX122013.SSF	512791.1372	30379

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722018.408	4294325.365	7701	20-Dec-13	ALEX122013.SSF	512792.124	30380
722018.074	4294325.007	7877	20-Dec-13	ALEX122013.SSF	512793.1479	30381
722017.659	4294324.724	7639	20-Dec-13	ALEX122013.SSF	512794.1538	30382
722017.203	4294324.354	8119	20-Dec-13	ALEX122013.SSF	512795.2881	30383
722016.912	4294324.112	8140	20-Dec-13	ALEX122013.SSF	512796.022	30384
722016.411	4294323.586	8697	20-Dec-13	ALEX122013.SSF	512797.29	30385
722016.26	4294323.323	8474	20-Dec-13	ALEX122013.SSF	512798.0562	30386
722016.039	4294322.854	8688	20-Dec-13	ALEX122013.SSF	512799.2749	30387
722015.745	4294322.477	8352	20-Dec-13	ALEX122013.SSF	512800.2178	30388
722015.422	4294322.146	8568	20-Dec-13	ALEX122013.SSF	512801.2598	30389
722015.194	4294321.955	8712	20-Dec-13	ALEX122013.SSF	512802.1162	30390
722014.849	4294321.894	8148	20-Dec-13	ALEX122013.SSF	512803.167	30391
722014.57	4294321.803	7587	20-Dec-13	ALEX122013.SSF	512804.125	30392
722014.235	4294321.655	9666	20-Dec-13	ALEX122013.SSF	512805.1489	30393
722013.907	4294321.467	7606	20-Dec-13	ALEX122013.SSF	512806.0659	30394
722013.354	4294321.286	8801	20-Dec-13	ALEX122013.SSF	512807.2998	30395
722013.017	4294320.979	8560	20-Dec-13	ALEX122013.SSF	512808.186	30396
722012.694	4294320.572	8320	20-Dec-13	ALEX122013.SSF	512809.2632	30397
722012.43	4294320.258	8200	20-Dec-13	ALEX122013.SSF	512810.1362	30398
722012.134	4294319.932	6850	20-Dec-13	ALEX122013.SSF	512811.123	30399
722011.802	4294319.564	8072	20-Dec-13	ALEX122013.SSF	512812.0918	30400
722011.571	4294319.106	9188	20-Dec-13	ALEX122013.SSF	512813.1919	30401
722011.459	4294318.815	9557	20-Dec-13	ALEX122013.SSF	512814.1001	30402
722011.283	4294318.636	8629	20-Dec-13	ALEX122013.SSF	512815.1968	30403
722011.096	4294318.573	8157	20-Dec-13	ALEX122013.SSF	512816.0068	30404
722010.825	4294318.378	8759	20-Dec-13	ALEX122013.SSF	512817.2729	30405
722010.593	4294318.222	8040	20-Dec-13	ALEX122013.SSF	512818.1631	30406
722010.289	4294318.045	8850	20-Dec-13	ALEX122013.SSF	512819.124	30407
722010.009	4294317.876	9082	20-Dec-13	ALEX122013.SSF	512820.0742	30408
722009.649	4294317.753	7700	20-Dec-13	ALEX122013.SSF	512821.1279	30409
722009.311	4294317.629	8405	20-Dec-13	ALEX122013.SSF	512822.1758	30410
722008.908	4294317.473	8101	20-Dec-13	ALEX122013.SSF	512823.2568	30411
722008.594	4294317.299	8475	20-Dec-13	ALEX122013.SSF	512824.0908	30412
722008.13	4294316.999	8178	20-Dec-13	ALEX122013.SSF	512825.2739	30413
722007.766	4294316.813	8734	20-Dec-13	ALEX122013.SSF	512826.209	30414
722007.42	4294316.479	8333	20-Dec-13	ALEX122013.SSF	512827.2852	30415
722007.189	4294316.25	8383	20-Dec-13	ALEX122013.SSF	512828.1221	30416
722006.877	4294315.91	7346	20-Dec-13	ALEX122013.SSF	512829.0942	30417
722006.49	4294315.602	7146	20-Dec-13	ALEX122013.SSF	512830.146	30418
722006.14	4294315.22	7576	20-Dec-13	ALEX122013.SSF	512831.1982	30419
722005.861	4294314.97	7414	20-Dec-13	ALEX122013.SSF	512832.1401	30420
722005.485	4294314.718	6533	20-Dec-13	ALEX122013.SSF	512833.3652	30421
722005.222	4294314.632	6283	20-Dec-13	ALEX122013.SSF	512834.1709	30422
722004.967	4294314.395	7421	20-Dec-13	ALEX122013.SSF	512835.188	30423
722004.741	4294314.146	7285	20-Dec-13	ALEX122013.SSF	512836.085	30424
722004.475	4294313.721	7071	20-Dec-13	ALEX122013.SSF	512837.1768	30425
722004.293	4294313.434	7587	20-Dec-13	ALEX122013.SSF	512838.0898	30426

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722003.984	4294313.182	7837	20-Dec-13	ALEX122013.SSF	512839.3091	30427
722003.805	4294313.099	7539	20-Dec-13	ALEX122013.SSF	512840.0928	30428
722003.486	4294312.998	7764	20-Dec-13	ALEX122013.SSF	512841.1182	30429
722003.199	4294312.798	8241	20-Dec-13	ALEX122013.SSF	512842.0342	30430
722002.773	4294312.678	8240	20-Dec-13	ALEX122013.SSF	512843.084	30431
722002.39	4294312.376	7760	20-Dec-13	ALEX122013.SSF	512844.0859	30432
722001.978	4294312.278	8270	20-Dec-13	ALEX122013.SSF	512845.313	30433
722001.654	4294312.131	8127	20-Dec-13	ALEX122013.SSF	512846.1768	30434
722001.35	4294311.972	8482	20-Dec-13	ALEX122013.SSF	512847.1768	30435
722001.176	4294311.84	8450	20-Dec-13	ALEX122013.SSF	512848.105	30436
722001.276	4294311.627	7602	20-Dec-13	ALEX122013.SSF	512849.1328	30437
722001	4294311.684	8530	20-Dec-13	ALEX122013.SSF	512850.0708	30438
722000.791	4294311.606	8612	20-Dec-13	ALEX122013.SSF	512851.2881	30439
722000.738	4294311.284	8303	20-Dec-13	ALEX122013.SSF	512852.0308	30440
722000.679	4294310.622	8555	20-Dec-13	ALEX122013.SSF	512853.271	30441
722000.604	4294310.328	7479	20-Dec-13	ALEX122013.SSF	512854.0859	30442
722000.526	4294310.209	7779	20-Dec-13	ALEX122013.SSF	512855.2769	30443
722000.655	4294310.219	8035	20-Dec-13	ALEX122013.SSF	512856.0962	30444
722000.736	4294310.223	8158	20-Dec-13	ALEX122013.SSF	512857.2729	30445
722000.745	4294310.204	8009	20-Dec-13	ALEX122013.SSF	512858.1392	30446
722000.736	4294310.227	7522	20-Dec-13	ALEX122013.SSF	512859.1631	30447
722000.782	4294310.192	8660	20-Dec-13	ALEX122013.SSF	512860.1729	30448
722000.838	4294310.064	7535	20-Dec-13	ALEX122013.SSF	512861.3398	30449
722000.837	4294310.066	7613	20-Dec-13	ALEX122013.SSF	512862.0791	30450
722000.798	4294310.274	7693	20-Dec-13	ALEX122013.SSF	512863.209	30451
722000.833	4294310.379	8823	20-Dec-13	ALEX122013.SSF	512864.2168	30452
722000.938	4294310.367	7335	20-Dec-13	ALEX122013.SSF	512865.248	30453
722000.994	4294310.344	7623	20-Dec-13	ALEX122013.SSF	512866.0908	30454
722001.039	4294310.315	8116	20-Dec-13	ALEX122013.SSF	512867.333	30455
722001.055	4294310.302	7999	20-Dec-13	ALEX122013.SSF	512868.0059	30456
722001.082	4294310.291	7189	20-Dec-13	ALEX122013.SSF	512869.2231	30457
722001.106	4294310.282	8547	20-Dec-13	ALEX122013.SSF	512870.3169	30458
722001.125	4294310.272	9457	20-Dec-13	ALEX122013.SSF	512871.2969	30459
722001.137	4294310.262	8154	20-Dec-13	ALEX122013.SSF	512871.9961	30460
722001.148	4294310.251	7858	20-Dec-13	ALEX122013.SSF	512873.1489	30461
722001.149	4294310.248	8714	20-Dec-13	ALEX122013.SSF	512874.1509	30462
722001.153	4294310.251	8928	20-Dec-13	ALEX122013.SSF	512875.1401	30463
722001.156	4294310.256	8862	20-Dec-13	ALEX122013.SSF	512876.0342	30464
722001.166	4294310.257	8125	20-Dec-13	ALEX122013.SSF	512877.0088	30465
722001.162	4294310.277	8811	20-Dec-13	ALEX122013.SSF	512878.0112	30466
722001.173	4294310.273	8652	20-Dec-13	ALEX122013.SSF	512878.9712	30467
722001.209	4294310.238	7653	20-Dec-13	ALEX122013.SSF	512880.042	30468
722001.203	4294310.23	7673	20-Dec-13	ALEX122013.SSF	512881.2871	30469
722001.194	4294310.234	8728	20-Dec-13	ALEX122013.SSF	512882.082	30470
722001.181	4294310.242	8152	20-Dec-13	ALEX122013.SSF	512883.2788	30471
722001.176	4294310.244	7648	20-Dec-13	ALEX122013.SSF	512884.0352	30472
722001.179	4294310.238	8002	20-Dec-13	ALEX122013.SSF	512885.0889	30473

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722001.185	4294310.24	8000	20-Dec-13	ALEX122013.SSF	512885.9482	30474
722001.184	4294310.247	8150	20-Dec-13	ALEX122013.SSF	512886.9458	30475
722001.184	4294310.256	7317	20-Dec-13	ALEX122013.SSF	512887.9761	30476
722001.188	4294310.259	7289	20-Dec-13	ALEX122013.SSF	512888.9512	30477
722000.915	4294310.169	8242	20-Dec-13	ALEX122013.SSF	512889.9312	30478
722000.564	4294310.038	8150	20-Dec-13	ALEX122013.SSF	512891.0068	30479
722000.466	4294310.046	8517	20-Dec-13	ALEX122013.SSF	512891.9849	30480
722000.724	4294310.179	7889	20-Dec-13	ALEX122013.SSF	512893.106	30481
722001.136	4294310.371	8302	20-Dec-13	ALEX122013.SSF	512894.0449	30482
722001.855	4294310.448	8555	20-Dec-13	ALEX122013.SSF	512895.1738	30483
722002.416	4294310.753	8828	20-Dec-13	ALEX122013.SSF	512896.0981	30484
722002.893	4294311.138	8747	20-Dec-13	ALEX122013.SSF	512897.1221	30485
722003.355	4294311.52	8246	20-Dec-13	ALEX122013.SSF	512898.0762	30486
722003.776	4294311.947	7161	20-Dec-13	ALEX122013.SSF	512899.1489	30487
722004.132	4294312.242	7640	20-Dec-13	ALEX122013.SSF	512900.0532	30488
722004.434	4294312.541	7760	20-Dec-13	ALEX122013.SSF	512901.0142	30489
722004.746	4294312.737	8150	20-Dec-13	ALEX122013.SSF	512902.0059	30490
722005.114	4294312.979	7947	20-Dec-13	ALEX122013.SSF	512903.0151	30491
722005.687	4294313.125	7537	20-Dec-13	ALEX122013.SSF	512904.0771	30492
722006.226	4294313.476	7494	20-Dec-13	ALEX122013.SSF	512905.0801	30493
722006.593	4294313.78	8173	20-Dec-13	ALEX122013.SSF	512905.98	30494
722006.971	4294314.198	8373	20-Dec-13	ALEX122013.SSF	512907.084	30495
722007.261	4294314.514	7643	20-Dec-13	ALEX122013.SSF	512907.9731	30496
722007.712	4294314.999	8270	20-Dec-13	ALEX122013.SSF	512909.1069	30497
722007.944	4294315.369	8937	20-Dec-13	ALEX122013.SSF	512910.084	30498
722008.135	4294315.649	8024	20-Dec-13	ALEX122013.SSF	512911.0889	30499
722008.432	4294315.883	7526	20-Dec-13	ALEX122013.SSF	512912.0889	30500
722008.948	4294316.089	7131	20-Dec-13	ALEX122013.SSF	512913.083	30501
722009.436	4294316.385	8442	20-Dec-13	ALEX122013.SSF	512914.0542	30502
722009.992	4294316.559	8710	20-Dec-13	ALEX122013.SSF	512915.0532	30503
722010.53	4294316.808	8675	20-Dec-13	ALEX122013.SSF	512915.9521	30504
722011.134	4294317.048	8074	20-Dec-13	ALEX122013.SSF	512917.1289	30505
722011.591	4294317.332	7748	20-Dec-13	ALEX122013.SSF	512918.019	30506
722012.039	4294317.625	8027	20-Dec-13	ALEX122013.SSF	512919.1099	30507
722012.375	4294317.937	8606	20-Dec-13	ALEX122013.SSF	512920.1392	30508
722012.682	4294318.148	8841	20-Dec-13	ALEX122013.SSF	512921.144	30509
722013.072	4294318.485	8540	20-Dec-13	ALEX122013.SSF	512922.1641	30510
722013.385	4294318.86	7565	20-Dec-13	ALEX122013.SSF	512923.1079	30511
722013.642	4294319.218	9331	20-Dec-13	ALEX122013.SSF	512924.0278	30512
722013.843	4294319.598	8932	20-Dec-13	ALEX122013.SSF	512925.1519	30513
722013.975	4294319.86	8233	20-Dec-13	ALEX122013.SSF	512926.104	30514
722014.161	4294320.027	7848	20-Dec-13	ALEX122013.SSF	512927.1758	30515
722014.386	4294320.136	8172	20-Dec-13	ALEX122013.SSF	512928.0391	30516
722014.828	4294320.471	8613	20-Dec-13	ALEX122013.SSF	512929.2261	30517
722015.098	4294320.76	8513	20-Dec-13	ALEX122013.SSF	512930.0342	30518
722015.473	4294321.088	7438	20-Dec-13	ALEX122013.SSF	512931.1372	30519
722015.771	4294321.35	8009	20-Dec-13	ALEX122013.SSF	512931.9858	30520

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722016.179	4294321.638	7402	20-Dec-13	ALEX122013.SSF	512933.0879	30521
722016.52	4294321.744	7280	20-Dec-13	ALEX122013.SSF	512933.9922	30522
722016.972	4294321.989	9170	20-Dec-13	ALEX122013.SSF	512935.0991	30523
722017.326	4294322.174	8562	20-Dec-13	ALEX122013.SSF	512936.0059	30524
722017.508	4294322.487	9190	20-Dec-13	ALEX122013.SSF	512937.0439	30525
722017.755	4294322.678	8447	20-Dec-13	ALEX122013.SSF	512938.0098	30526
722018.245	4294322.934	8051	20-Dec-13	ALEX122013.SSF	512939.0811	30527
722018.711	4294322.998	7593	20-Dec-13	ALEX122013.SSF	512940.0972	30528
722018.996	4294323.215	8648	20-Dec-13	ALEX122013.SSF	512941.0952	30529
722019.184	4294323.48	8462	20-Dec-13	ALEX122013.SSF	512942.0132	30530
722019.493	4294323.855	8475	20-Dec-13	ALEX122013.SSF	512943.1079	30531
722019.853	4294323.971	8808	20-Dec-13	ALEX122013.SSF	512943.9902	30532
722020.152	4294324.173	8172	20-Dec-13	ALEX122013.SSF	512945.1079	30533
722020.189	4294324.405	8493	20-Dec-13	ALEX122013.SSF	512945.9961	30534
722020.401	4294324.814	9233	20-Dec-13	ALEX122013.SSF	512947.1289	30535
722020.495	4294325.123	8488	20-Dec-13	ALEX122013.SSF	512948.1152	30536
722020.612	4294325.417	8182	20-Dec-13	ALEX122013.SSF	512949.1108	30537
722020.772	4294325.725	7685	20-Dec-13	ALEX122013.SSF	512950.0381	30538
722021.009	4294326.094	7171	20-Dec-13	ALEX122013.SSF	512951.062	30539
722021.105	4294326.389	7552	20-Dec-13	ALEX122013.SSF	512951.959	30540
722021.246	4294326.683	8608	20-Dec-13	ALEX122013.SSF	512953.0918	30541
722021.496	4294326.954	8302	20-Dec-13	ALEX122013.SSF	512953.9771	30542
722021.791	4294327.308	8465	20-Dec-13	ALEX122013.SSF	512955.1592	30543
722022.029	4294327.503	8086	20-Dec-13	ALEX122013.SSF	512956.0898	30544
722022.303	4294327.647	7481	20-Dec-13	ALEX122013.SSF	512957.0898	30545
722022.597	4294327.683	8120	20-Dec-13	ALEX122013.SSF	512958.0239	30546
722022.61	4294327.941	7915	20-Dec-13	ALEX122013.SSF	512959.145	30547
722022.673	4294328.083	8878	20-Dec-13	ALEX122013.SSF	512960.0029	30548
722022.812	4294328.046	7979	20-Dec-13	ALEX122013.SSF	512961.124	30549
722022.668	4294328.168	7845	20-Dec-13	ALEX122013.SSF	512962.1279	30550
722022.448	4294328.423	6851	20-Dec-13	ALEX122013.SSF	512963.1841	30551
722022.447	4294328.289	7472	20-Dec-13	ALEX122013.SSF	512964.124	30552
722022.719	4294327.939	7808	20-Dec-13	ALEX122013.SSF	512965.1099	30553
722022.981	4294327.57	7562	20-Dec-13	ALEX122013.SSF	512965.9258	30554
722023.292	4294327.098	7290	20-Dec-13	ALEX122013.SSF	512967.0059	30555
722023.362	4294326.971	7402	20-Dec-13	ALEX122013.SSF	512968.019	30556
722023.424	4294327.013	7130	20-Dec-13	ALEX122013.SSF	512969.0039	30557
722023.542	4294327.07	8082	20-Dec-13	ALEX122013.SSF	512969.959	30558
722023.551	4294327.183	6670	20-Dec-13	ALEX122013.SSF	512971.041	30559
722023.423	4294327.244	7247	20-Dec-13	ALEX122013.SSF	512972.0259	30560
722023.483	4294327.246	7001	20-Dec-13	ALEX122013.SSF	512973.1338	30561
722023.753	4294326.605	7060	20-Dec-13	ALEX122013.SSF	512973.999	30562
722024.242	4294326.475	7435	20-Dec-13	ALEX122013.SSF	512975.1069	30563
722024.46	4294326.682	8878	20-Dec-13	ALEX122013.SSF	512976.165	30564
722024.302	4294326.88	7889	20-Dec-13	ALEX122013.SSF	512977.0698	30565
722024.026	4294327.114	8002	20-Dec-13	ALEX122013.SSF	512978.0508	30566
722023.854	4294327.01	8030	20-Dec-13	ALEX122013.SSF	512979.0952	30567

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722023.712	4294326.987	9387	20-Dec-13	ALEX122013.SSF	512980.1489	30568
722023.458	4294326.971	7747	20-Dec-13	ALEX122013.SSF	512981.145	30569
722023.211	4294326.888	7906	20-Dec-13	ALEX122013.SSF	512982.2061	30570
722022.966	4294326.681	8186	20-Dec-13	ALEX122013.SSF	512983.1768	30571
722022.769	4294326.383	7926	20-Dec-13	ALEX122013.SSF	512984.0459	30572
722022.298	4294326.106	8821	20-Dec-13	ALEX122013.SSF	512985.064	30573
722021.883	4294325.77	7845	20-Dec-13	ALEX122013.SSF	512986.002	30574
722021.477	4294325.464	7901	20-Dec-13	ALEX122013.SSF	512987.0498	30575
722021.159	4294325.106	7885	20-Dec-13	ALEX122013.SSF	512988.125	30576
722020.954	4294324.866	8631	20-Dec-13	ALEX122013.SSF	512989.0879	30577
722020.697	4294324.73	8037	20-Dec-13	ALEX122013.SSF	512989.9141	30578
722020.485	4294324.436	8939	20-Dec-13	ALEX122013.SSF	512991.0078	30579
722020.129	4294324.214	8235	20-Dec-13	ALEX122013.SSF	512992.0112	30580
722019.703	4294323.819	8628	20-Dec-13	ALEX122013.SSF	512993.0781	30581
722019.295	4294323.641	8607	20-Dec-13	ALEX122013.SSF	512993.917	30582
722018.819	4294323.266	9021	20-Dec-13	ALEX122013.SSF	512995.0991	30583
722018.568	4294322.974	9305	20-Dec-13	ALEX122013.SSF	512996.0762	30584
722018.396	4294322.678	8506	20-Dec-13	ALEX122013.SSF	512997.1538	30585
722018.219	4294322.427	8666	20-Dec-13	ALEX122013.SSF	512998.125	30586
722253.51	4294310.86	4527	21-Dec-13	ALEX122113 (1).SSF	568999.408	30587
722253.497	4294310.844	4624	21-Dec-13	ALEX122113 (1).SSF	569000.265	30588
722253.477	4294310.836	5211	21-Dec-13	ALEX122113 (1).SSF	569001.327	30589
722253.477	4294310.83	5038	21-Dec-13	ALEX122113 (1).SSF	569002.275	30590
722253.474	4294310.821	4889	21-Dec-13	ALEX122113 (1).SSF	569003.349	30591
722253.478	4294310.814	4962	21-Dec-13	ALEX122113 (1).SSF	569004.273	30592
722253.506	4294310.815	5049	21-Dec-13	ALEX122113 (1).SSF	569005.259	30593
722253.516	4294310.772	5307	21-Dec-13	ALEX122113 (1).SSF	569006.192	30594
722253.641	4294310.619	5145	21-Dec-13	ALEX122113 (1).SSF	569007.301	30595
722253.71	4294310.54	4979	21-Dec-13	ALEX122113 (1).SSF	569008.231	30596
722253.798	4294310.491	4698	21-Dec-13	ALEX122113 (1).SSF	569009.288	30597
722253.9	4294310.401	5208	21-Dec-13	ALEX122113 (1).SSF	569010.279	30598
722253.968	4294310.3	5021	21-Dec-13	ALEX122113 (1).SSF	569011.276	30599
722254.005	4294310.225	4864	21-Dec-13	ALEX122113 (1).SSF	569012.225	30600
722254.045	4294310.177	4709	21-Dec-13	ALEX122113 (1).SSF	569013.292	30601
722254.06	4294310.172	4868	21-Dec-13	ALEX122113 (1).SSF	569014.196	30602
722254.04	4294310.214	5011	21-Dec-13	ALEX122113 (1).SSF	569015.316	30603
722254.043	4294310.246	5136	21-Dec-13	ALEX122113 (1).SSF	569016.193	30604
722254.063	4294310.264	5311	21-Dec-13	ALEX122113 (1).SSF	569017.311	30605
722254.043	4294310.268	5132	21-Dec-13	ALEX122113 (1).SSF	569018.173	30606
722254.076	4294310.252	5032	21-Dec-13	ALEX122113 (1).SSF	569019.234	30607
722254.044	4294310.205	5125	21-Dec-13	ALEX122113 (1).SSF	569020.141	30608
722254.037	4294310.161	5170	21-Dec-13	ALEX122113 (1).SSF	569021.184	30609
722254.056	4294310.108	5616	21-Dec-13	ALEX122113 (1).SSF	569022.156	30610
722254.051	4294310.091	5409	21-Dec-13	ALEX122113 (1).SSF	569023.115	30611
722254.074	4294310.059	5435	21-Dec-13	ALEX122113 (1).SSF	569024.053	30612
722254.087	4294310.055	5142	21-Dec-13	ALEX122113 (1).SSF	569025.268	30613
722254.1	4294310.041	5090	21-Dec-13	ALEX122113 (1).SSF	569026.11	30614

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722254.122	4294310.03	5263	21-Dec-13	ALEX122113 (1).SSF	569027.262	30615
722254.12	4294310.034	5060	21-Dec-13	ALEX122113 (1).SSF	569028.104	30616
722254.113	4294310.054	4923	21-Dec-13	ALEX122113 (1).SSF	569029.29	30617
722254.101	4294310.074	4794	21-Dec-13	ALEX122113 (1).SSF	569030.181	30618
722254.1	4294310.083	5037	21-Dec-13	ALEX122113 (1).SSF	569031.26	30619
722254.1	4294310.109	5353	21-Dec-13	ALEX122113 (1).SSF	569032.239	30620
722254.057	4294310.084	5216	21-Dec-13	ALEX122113 (1).SSF	569033.285	30621
722254.108	4294310.094	5124	21-Dec-13	ALEX122113 (1).SSF	569034.162	30622
722254.091	4294310.084	4989	21-Dec-13	ALEX122113 (1).SSF	569035.174	30623
722254.113	4294310.102	4441	21-Dec-13	ALEX122113 (1).SSF	569036.139	30624
722254.117	4294310.101	4793	21-Dec-13	ALEX122113 (1).SSF	569037.217	30625
722254.147	4294310.101	4878	21-Dec-13	ALEX122113 (1).SSF	569038.171	30626
722254.089	4294310.087	5294	21-Dec-13	ALEX122113 (1).SSF	569039.246	30627
722254.115	4294310.097	5048	21-Dec-13	ALEX122113 (1).SSF	569040.256	30628
722254.134	4294310.09	4872	21-Dec-13	ALEX122113 (1).SSF	569041.312	30629
722254.164	4294310.081	4503	21-Dec-13	ALEX122113 (1).SSF	569042.165	30630
722254.132	4294310.072	4985	21-Dec-13	ALEX122113 (1).SSF	569043.219	30631
722254.169	4294310.091	5241	21-Dec-13	ALEX122113 (1).SSF	569044.207	30632
722254.149	4294310.069	5071	21-Dec-13	ALEX122113 (1).SSF	569045.362	30633
722254.141	4294310.068	5207	21-Dec-13	ALEX122113 (1).SSF	569046.228	30634
722254.131	4294310.073	5336	21-Dec-13	ALEX122113 (1).SSF	569047.293	30635
722254.129	4294310.068	4951	21-Dec-13	ALEX122113 (1).SSF	569048.268	30636
722254.133	4294310.064	4788	21-Dec-13	ALEX122113 (1).SSF	569049.326	30637
722254.125	4294310.056	4838	21-Dec-13	ALEX122113 (1).SSF	569050.234	30638
722254.125	4294310.052	5136	21-Dec-13	ALEX122113 (1).SSF	569051.253	30639
722254.122	4294310.048	5071	21-Dec-13	ALEX122113 (1).SSF	569052.205	30640
722254.139	4294310.048	4743	21-Dec-13	ALEX122113 (1).SSF	569053.286	30641
722254.157	4294310.046	5240	21-Dec-13	ALEX122113 (1).SSF	569054.23	30642
722254.156	4294310.04	5160	21-Dec-13	ALEX122113 (1).SSF	569055.35	30643
722254.163	4294310.038	5152	21-Dec-13	ALEX122113 (1).SSF	569056.31	30644
722254.165	4294310.046	4998	21-Dec-13	ALEX122113 (1).SSF	569057.359	30645
722254.147	4294310.063	4851	21-Dec-13	ALEX122113 (1).SSF	569058.207	30646
722254.12	4294310.081	4401	21-Dec-13	ALEX122113 (1).SSF	569059.38	30647
722254.116	4294310.099	4680	21-Dec-13	ALEX122113 (1).SSF	569060.169	30648
722254.09	4294310.107	4995	21-Dec-13	ALEX122113 (1).SSF	569061.304	30649
722254.126	4294310.109	5142	21-Dec-13	ALEX122113 (1).SSF	569062.194	30650
722254.119	4294310.069	5547	21-Dec-13	ALEX122113 (1).SSF	569063.286	30651
722254.112	4294310.055	5025	21-Dec-13	ALEX122113 (1).SSF	569064.181	30652
722254.094	4294310.06	4964	21-Dec-13	ALEX122113 (1).SSF	569065.346	30653
722254.096	4294310.072	4585	21-Dec-13	ALEX122113 (1).SSF	569066.261	30654
722254.092	4294310.072	5121	21-Dec-13	ALEX122113 (1).SSF	569067.332	30655
722254.081	4294310.081	5183	21-Dec-13	ALEX122113 (1).SSF	569068.309	30656
722254.082	4294310.081	5263	21-Dec-13	ALEX122113 (1).SSF	569069.338	30657
722254.089	4294310.064	4978	21-Dec-13	ALEX122113 (1).SSF	569070.187	30658
722254.115	4294310.047	4877	21-Dec-13	ALEX122113 (1).SSF	569071.359	30659
722254.036	4294310.051	4723	21-Dec-13	ALEX122113 (1).SSF	569072.272	30660
721983.784	4294347.677	7948	21-Dec-13	ALEX122113 (1).SSF	569866.053	30661

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721983.79	4294347.688	8857	21-Dec-13	ALEX122113 (1).SSF	569866.991	30662
721983.778	4294347.73	8334	21-Dec-13	ALEX122113 (1).SSF	569867.868	30663
721983.733	4294347.767	8233	21-Dec-13	ALEX122113 (1).SSF	569869.011	30664
721983.755	4294347.814	9108	21-Dec-13	ALEX122113 (1).SSF	569869.929	30665
721983.776	4294347.846	8697	21-Dec-13	ALEX122113 (1).SSF	569870.995	30666
721983.785	4294347.862	8594	21-Dec-13	ALEX122113 (1).SSF	569871.849	30667
721983.765	4294347.817	8868	21-Dec-13	ALEX122113 (1).SSF	569872.956	30668
721983.789	4294347.861	8277	21-Dec-13	ALEX122113 (1).SSF	569873.924	30669
721983.851	4294347.63	7259	21-Dec-13	ALEX122113 (1).SSF	569874.923	30670
721984.403	4294347.861	8325	21-Dec-13	ALEX122113 (1).SSF	569875.894	30671
721984.848	4294348.278	9221	21-Dec-13	ALEX122113 (1).SSF	569876.946	30672
721984.767	4294348.612	8485	21-Dec-13	ALEX122113 (1).SSF	569877.847	30673
721985.014	4294348.801	8271	21-Dec-13	ALEX122113 (1).SSF	569879.002	30674
721985.387	4294349.024	8277	21-Dec-13	ALEX122113 (1).SSF	569879.878	30675
721985.444	4294349.643	7709	21-Dec-13	ALEX122113 (1).SSF	569880.939	30676
721985.721	4294350.508	8707	21-Dec-13	ALEX122113 (1).SSF	569881.808	30677
721986.769	4294351.61	8836	21-Dec-13	ALEX122113 (1).SSF	569882.89	30678
721987.639	4294352.527	8869	21-Dec-13	ALEX122113 (1).SSF	569883.827	30679
721988.516	4294353.446	8067	21-Dec-13	ALEX122113 (1).SSF	569884.891	30680
721989.382	4294354.165	8347	21-Dec-13	ALEX122113 (1).SSF	569885.817	30681
721990.57	4294355.152	7726	21-Dec-13	ALEX122113 (1).SSF	569886.936	30682
721991.693	4294355.925	6791	21-Dec-13	ALEX122113 (1).SSF	569887.886	30683
721992.734	4294356.703	7908	21-Dec-13	ALEX122113 (1).SSF	569888.925	30684
721993.533	4294357.499	7107	21-Dec-13	ALEX122113 (1).SSF	569889.807	30685
721994.719	4294358.576	6246	21-Dec-13	ALEX122113 (1).SSF	569890.934	30686
721995.872	4294359.361	6391	21-Dec-13	ALEX122113 (1).SSF	569891.916	30687
721996.777	4294360.127	7147	21-Dec-13	ALEX122113 (1).SSF	569892.941	30688
721997.462	4294360.865	7307	21-Dec-13	ALEX122113 (1).SSF	569893.865	30689
721997.937	4294361.383	6656	21-Dec-13	ALEX122113 (1).SSF	569894.975	30690
721998.179	4294361.262	7154	21-Dec-13	ALEX122113 (1).SSF	569895.77	30691
721998.386	4294361.072	7158	21-Dec-13	ALEX122113 (1).SSF	569896.834	30692
721998.369	4294361.092	6829	21-Dec-13	ALEX122113 (1).SSF	569897.768	30693
721998.357	4294361.147	7137	21-Dec-13	ALEX122113 (1).SSF	569898.89	30694
721998.362	4294361.124	7544	21-Dec-13	ALEX122113 (1).SSF	569899.787	30695
721998.34	4294361.077	6896	21-Dec-13	ALEX122113 (1).SSF	569900.874	30696
721998.296	4294361.066	6194	21-Dec-13	ALEX122113 (1).SSF	569901.8	30697
721998.209	4294361.068	6312	21-Dec-13	ALEX122113 (1).SSF	569902.923	30698
721998.127	4294361.118	6702	21-Dec-13	ALEX122113 (1).SSF	569903.8	30699
721998.104	4294361.165	6325	21-Dec-13	ALEX122113 (1).SSF	569904.91	30700
721998.115	4294361.144	7491	21-Dec-13	ALEX122113 (1).SSF	569905.842	30701
721998.158	4294361.081	6342	21-Dec-13	ALEX122113 (1).SSF	569906.999	30702
721998.202	4294361.029	6745	21-Dec-13	ALEX122113 (1).SSF	569907.906	30703
721998.16	4294360.99	7056	21-Dec-13	ALEX122113 (1).SSF	569909.057	30704
721998.113	4294360.966	7464	21-Dec-13	ALEX122113 (1).SSF	569910.003	30705
721998.076	4294360.883	7926	21-Dec-13	ALEX122113 (1).SSF	569911.018	30706
721998.075	4294360.839	6661	21-Dec-13	ALEX122113 (1).SSF	569911.919	30707
721998.072	4294360.796	6345	21-Dec-13	ALEX122113 (1).SSF	569912.978	30708

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721998.07	4294360.765	7376	21-Dec-13	ALEX122113 (1).SSF	569913.829	30709
721998.041	4294360.748	7034	21-Dec-13	ALEX122113 (1).SSF	569915.038	30710
721998.018	4294360.743	6408	21-Dec-13	ALEX122113 (1).SSF	569915.753	30711
721998.033	4294360.752	7722	21-Dec-13	ALEX122113 (1).SSF	569916.929	30712
721998.059	4294360.758	6880	21-Dec-13	ALEX122113 (1).SSF	569917.767	30713
721998.078	4294360.767	6940	21-Dec-13	ALEX122113 (1).SSF	569918.861	30714
721998.081	4294360.776	6535	21-Dec-13	ALEX122113 (1).SSF	569919.76	30715
721998.06	4294360.791	6913	21-Dec-13	ALEX122113 (1).SSF	569921.012	30716
721997.892	4294360.649	6468	21-Dec-13	ALEX122113 (1).SSF	569921.806	30717
721997.448	4294360.362	6717	21-Dec-13	ALEX122113 (1).SSF	569922.934	30718
721996.929	4294360.102	7169	21-Dec-13	ALEX122113 (1).SSF	569923.877	30719
721996.208	4294359.638	6892	21-Dec-13	ALEX122113 (1).SSF	569924.886	30720
721995.513	4294359.139	7573	21-Dec-13	ALEX122113 (1).SSF	569925.885	30721
721994.76	4294358.683	7653	21-Dec-13	ALEX122113 (1).SSF	569926.954	30722
721994.027	4294358.236	6683	21-Dec-13	ALEX122113 (1).SSF	569927.964	30723
721993.195	4294357.679	6350	21-Dec-13	ALEX122113 (1).SSF	569928.981	30724
721992.437	4294357.1	6327	21-Dec-13	ALEX122113 (1).SSF	569929.937	30725
721991.664	4294356.582	6592	21-Dec-13	ALEX122113 (1).SSF	569930.908	30726
721990.826	4294356.104	7318	21-Dec-13	ALEX122113 (1).SSF	569931.871	30727
721989.956	4294355.511	7409	21-Dec-13	ALEX122113 (1).SSF	569932.925	30728
721989.213	4294354.965	5872	21-Dec-13	ALEX122113 (1).SSF	569933.817	30729
721988.292	4294354.263	6183	21-Dec-13	ALEX122113 (1).SSF	569934.947	30730
721987.573	4294353.778	6218	21-Dec-13	ALEX122113 (1).SSF	569935.838	30731
721986.657	4294353.233	6054	21-Dec-13	ALEX122113 (1).SSF	569936.879	30732
721985.932	4294352.761	6635	21-Dec-13	ALEX122113 (1).SSF	569937.77	30733
721985.09	4294352.166	7988	21-Dec-13	ALEX122113 (1).SSF	569938.891	30734
721984.354	4294351.609	7727	21-Dec-13	ALEX122113 (1).SSF	569939.832	30735
721983.549	4294351.066	6881	21-Dec-13	ALEX122113 (1).SSF	569940.851	30736
721982.736	4294350.573	7600	21-Dec-13	ALEX122113 (1).SSF	569941.886	30737
721981.858	4294350.049	7450	21-Dec-13	ALEX122113 (1).SSF	569942.903	30738
721981.074	4294349.537	7052	21-Dec-13	ALEX122113 (1).SSF	569943.812	30739
721980.105	4294348.877	7493	21-Dec-13	ALEX122113 (1).SSF	569944.886	30740
721979.28	4294348.411	7243	21-Dec-13	ALEX122113 (1).SSF	569945.762	30741
721978.305	4294347.912	8441	21-Dec-13	ALEX122113 (1).SSF	569946.877	30742
721977.581	4294347.426	8650	21-Dec-13	ALEX122113 (1).SSF	569947.781	30743
721976.692	4294346.81	7892	21-Dec-13	ALEX122113 (1).SSF	569948.988	30744
721976.222	4294346.376	7463	21-Dec-13	ALEX122113 (1).SSF	569949.769	30745
721975.586	4294345.859	7745	21-Dec-13	ALEX122113 (1).SSF	569951.027	30746
721975.192	4294345.933	6886	21-Dec-13	ALEX122113 (1).SSF	569951.815	30747
721974.46	4294345.812	6971	21-Dec-13	ALEX122113 (1).SSF	569953.012	30748
721974.022	4294345.449	6273	21-Dec-13	ALEX122113 (1).SSF	569953.863	30749
721973.348	4294344.918	6998	21-Dec-13	ALEX122113 (1).SSF	569954.924	30750
721972.734	4294344.567	7809	21-Dec-13	ALEX122113 (1).SSF	569955.831	30751
721972.143	4294344.095	7082	21-Dec-13	ALEX122113 (1).SSF	569956.884	30752
721971.75	4294343.781	6120	21-Dec-13	ALEX122113 (1).SSF	569957.761	30753
721971.376	4294343.537	7620	21-Dec-13	ALEX122113 (1).SSF	569958.877	30754
721971.201	4294343.386	8595	21-Dec-13	ALEX122113 (1).SSF	569959.873	30755

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721971.246	4294343.218	6978	21-Dec-13	ALEX122113 (1).SSF	569960.965	30756
721971.281	4294343.281	8284	21-Dec-13	ALEX122113 (1).SSF	569961.827	30757
721971.224	4294343.311	7351	21-Dec-13	ALEX122113 (1).SSF	569962.939	30758
721971.177	4294343.259	7867	21-Dec-13	ALEX122113 (1).SSF	569963.876	30759
721971.155	4294343.195	7637	21-Dec-13	ALEX122113 (1).SSF	569964.924	30760
721971.128	4294343.167	7579	21-Dec-13	ALEX122113 (1).SSF	569965.831	30761
721971.057	4294343.125	7834	21-Dec-13	ALEX122113 (1).SSF	569966.96	30762
721971.061	4294343.027	7928	21-Dec-13	ALEX122113 (1).SSF	569967.928	30763
721971.148	4294342.997	7832	21-Dec-13	ALEX122113 (1).SSF	569968.935	30764
721971.193	4294343.076	7508	21-Dec-13	ALEX122113 (1).SSF	569969.842	30765
721971.256	4294343.06	7337	21-Dec-13	ALEX122113 (1).SSF	569970.961	30766
721971.231	4294343.037	7684	21-Dec-13	ALEX122113 (1).SSF	569971.84	30767
721971.155	4294343.067	7591	21-Dec-13	ALEX122113 (1).SSF	569972.878	30768
721971.143	4294343.118	7207	21-Dec-13	ALEX122113 (1).SSF	569973.827	30769
721971.086	4294343.137	7322	21-Dec-13	ALEX122113 (1).SSF	569974.986	30770
721970.734	4294342.854	7500	21-Dec-13	ALEX122113 (1).SSF	569975.794	30771
721969.815	4294342.225	8835	21-Dec-13	ALEX122113 (1).SSF	569976.928	30772
721969.191	4294342.156	8598	21-Dec-13	ALEX122113 (1).SSF	569977.763	30773
721968.69	4294342.174	8059	21-Dec-13	ALEX122113 (1).SSF	569978.901	30774
721968.454	4294341.641	7745	21-Dec-13	ALEX122113 (1).SSF	569979.78	30775
721967.972	4294340.602	7756	21-Dec-13	ALEX122113 (1).SSF	569981.077	30776
721967.675	4294339.951	6469	21-Dec-13	ALEX122113 (1).SSF	569981.781	30777
721967.326	4294338.817	7077	21-Dec-13	ALEX122113 (1).SSF	569982.966	30778
721967.04	4294338.115	5879	21-Dec-13	ALEX122113 (1).SSF	569983.845	30779
721966.584	4294337.262	6989	21-Dec-13	ALEX122113 (1).SSF	569984.922	30780
721966.18	4294336.485	6727	21-Dec-13	ALEX122113 (1).SSF	569985.841	30781
721965.551	4294335.565	6811	21-Dec-13	ALEX122113 (1).SSF	569986.943	30782
721965.15	4294334.736	6202	21-Dec-13	ALEX122113 (1).SSF	569987.763	30783
721964.838	4294333.608	6290	21-Dec-13	ALEX122113 (1).SSF	569988.968	30784
721964.62	4294333.078	6004	21-Dec-13	ALEX122113 (1).SSF	569989.785	30785
721964.289	4294332.145	5927	21-Dec-13	ALEX122113 (1).SSF	569991.13	30786
721964.006	4294331.518	6244	21-Dec-13	ALEX122113 (1).SSF	569991.885	30787
721963.501	4294330.601	6691	21-Dec-13	ALEX122113 (1).SSF	569992.995	30788
721963.159	4294329.886	6742	21-Dec-13	ALEX122113 (1).SSF	569993.825	30789
721962.684	4294328.964	6785	21-Dec-13	ALEX122113 (1).SSF	569994.902	30790
721962.294	4294328.137	7876	21-Dec-13	ALEX122113 (1).SSF	569995.8	30791
721961.896	4294327.12	7159	21-Dec-13	ALEX122113 (1).SSF	569996.883	30792
721961.474	4294326.314	7099	21-Dec-13	ALEX122113 (1).SSF	569997.835	30793
721960.878	4294325.532	7385	21-Dec-13	ALEX122113 (1).SSF	569998.882	30794
721960.421	4294324.722	7456	21-Dec-13	ALEX122113 (1).SSF	569999.887	30795
721960.139	4294323.866	6814	21-Dec-13	ALEX122113 (1).SSF	570000.884	30796
721959.835	4294323.115	6713	21-Dec-13	ALEX122113 (1).SSF	570001.823	30797
721959.382	4294322.236	6898	21-Dec-13	ALEX122113 (1).SSF	570002.884	30798
721958.994	4294321.2	5774	21-Dec-13	ALEX122113 (1).SSF	570003.948	30799
721958.698	4294320.318	6635	21-Dec-13	ALEX122113 (1).SSF	570004.896	30800
721958.347	4294319.578	6998	21-Dec-13	ALEX122113 (1).SSF	570005.768	30801
721957.869	4294318.75	7149	21-Dec-13	ALEX122113 (1).SSF	570006.811	30802

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721957.581	4294317.922	6947	21-Dec-13	ALEX122113 (1).SSF	570007.766	30803
721957.353	4294316.961	7196	21-Dec-13	ALEX122113 (1).SSF	570008.806	30804
721957.046	4294316.086	6359	21-Dec-13	ALEX122113 (1).SSF	570009.813	30805
721956.667	4294315.172	5909	21-Dec-13	ALEX122113 (1).SSF	570010.813	30806
721956.407	4294314.311	6281	21-Dec-13	ALEX122113 (1).SSF	570011.733	30807
721956.293	4294313.166	6400	21-Dec-13	ALEX122113 (1).SSF	570012.8	30808
721956.144	4294312.067	5920	21-Dec-13	ALEX122113 (1).SSF	570013.804	30809
721955.852	4294310.949	5962	21-Dec-13	ALEX122113 (1).SSF	570014.864	30810
721955.595	4294309.971	6855	21-Dec-13	ALEX122113 (1).SSF	570015.878	30811
721955.451	4294308.901	5930	21-Dec-13	ALEX122113 (1).SSF	570016.931	30812
721955.29	4294308.01	6529	21-Dec-13	ALEX122113 (1).SSF	570017.794	30813
721955.013	4294307.001	5892	21-Dec-13	ALEX122113 (1).SSF	570018.865	30814
721954.815	4294306.06	6934	21-Dec-13	ALEX122113 (1).SSF	570019.8199	30815
721954.797	4294304.987	7223	21-Dec-13	ALEX122113 (1).SSF	570020.877	30816
721954.756	4294304.155	6126	21-Dec-13	ALEX122113 (1).SSF	570021.8101	30817
721954.492	4294303.156	5761	21-Dec-13	ALEX122113 (1).SSF	570022.871	30818
721954.215	4294302.223	5970	21-Dec-13	ALEX122113 (1).SSF	570023.828	30819
721954.087	4294301.155	6573	21-Dec-13	ALEX122113 (1).SSF	570024.88	30820
721954.005	4294300.256	5750	21-Dec-13	ALEX122113 (1).SSF	570025.762	30821
721953.724	4294299.18	6176	21-Dec-13	ALEX122113 (1).SSF	570026.827	30822
721953.393	4294298.383	6704	21-Dec-13	ALEX122113 (1).SSF	570027.756	30823
721953.34	4294297.573	6026	21-Dec-13	ALEX122113 (1).SSF	570028.8409	30824
721953.386	4294297.138	6014	21-Dec-13	ALEX122113 (1).SSF	570029.761	30825
721953.385	4294296.773	6095	21-Dec-13	ALEX122113 (1).SSF	570030.8831	30826
721953.378	4294296.242	6053	21-Dec-13	ALEX122113 (1).SSF	570031.799	30827
721953.318	4294295.376	5872	21-Dec-13	ALEX122113 (1).SSF	570032.854	30828
721952.952	4294294.703	6131	21-Dec-13	ALEX122113 (1).SSF	570033.7889	30829
721952.269	4294294.085	6362	21-Dec-13	ALEX122113 (1).SSF	570034.885	30830
721951.916	4294293.549	5790	21-Dec-13	ALEX122113 (1).SSF	570035.7679	30831
721951.695	4294292.764	5635	21-Dec-13	ALEX122113 (1).SSF	570036.868	30832
721951.672	4294292.149	5727	21-Dec-13	ALEX122113 (1).SSF	570037.804	30833
721951.612	4294291.426	5732	21-Dec-13	ALEX122113 (1).SSF	570038.873	30834
721951.473	4294290.612	5452	21-Dec-13	ALEX122113 (1).SSF	570039.816	30835
721951.433	4294289.624	5474	21-Dec-13	ALEX122113 (1).SSF	570040.887	30836
721951.315	4294288.883	5899	21-Dec-13	ALEX122113 (1).SSF	570041.819	30837
721951.097	4294288.241	5816	21-Dec-13	ALEX122113 (1).SSF	570042.832	30838
721950.972	4294287.574	5709	21-Dec-13	ALEX122113 (1).SSF	570043.759	30839
721950.885	4294286.713	5753	21-Dec-13	ALEX122113 (1).SSF	570044.819	30840
721950.669	4294285.928	5314	21-Dec-13	ALEX122113 (1).SSF	570045.748	30841
721950.429	4294285.048	5254	21-Dec-13	ALEX122113 (1).SSF	570046.89	30842
721950.621	4294284.542	6007	21-Dec-13	ALEX122113 (1).SSF	570047.83	30843
721951.027	4294284.046	5636	21-Dec-13	ALEX122113 (1).SSF	570048.8571	30844
721951.426	4294283.566	5368	21-Dec-13	ALEX122113 (1).SSF	570049.811	30845
721951.969	4294282.944	5913	21-Dec-13	ALEX122113 (1).SSF	570050.8459	30846
721952.431	4294282.357	5763	21-Dec-13	ALEX122113 (1).SSF	570051.8521	30847
721952.754	4294281.652	6249	21-Dec-13	ALEX122113 (1).SSF	570052.865	30848
721953.031	4294280.857	6902	21-Dec-13	ALEX122113 (1).SSF	570053.7939	30849

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721953.616	4294279.943	6795	21-Dec-13	ALEX122113 (1).SSF	570054.928	30850
721954.225	4294279.467	5958	21-Dec-13	ALEX122113 (1).SSF	570055.7629	30851
721955.005	4294278.945	6524	21-Dec-13	ALEX122113 (1).SSF	570056.903	30852
721955.692	4294278.66	7181	21-Dec-13	ALEX122113 (1).SSF	570057.809	30853
721956.557	4294278.349	5497	21-Dec-13	ALEX122113 (1).SSF	570058.921	30854
721957.201	4294278.068	5950	21-Dec-13	ALEX122113 (1).SSF	570059.795	30855
721958.029	4294277.738	6686	21-Dec-13	ALEX122113 (1).SSF	570060.859	30856
721958.667	4294277.452	5841	21-Dec-13	ALEX122113 (1).SSF	570061.786	30857
721959.436	4294277.054	5918	21-Dec-13	ALEX122113 (1).SSF	570062.933	30858
721960.181	4294276.712	6621	21-Dec-13	ALEX122113 (1).SSF	570063.837	30859
721961.007	4294276.382	6245	21-Dec-13	ALEX122113 (1).SSF	570064.875	30860
721961.603	4294275.984	6451	21-Dec-13	ALEX122113 (1).SSF	570065.797	30861
721963.028	4294275.188	6425	21-Dec-13	ALEX122113 (1).SSF	570067.771	30863
721963.802	4294274.883	6286	21-Dec-13	ALEX122113 (1).SSF	570068.855	30864
721964.436	4294274.528	7091	21-Dec-13	ALEX122113 (1).SSF	570069.778	30865
721965.277	4294274.131	7083	21-Dec-13	ALEX122113 (1).SSF	570070.974	30866
721965.722	4294273.811	6540	21-Dec-13	ALEX122113 (1).SSF	570071.7321	30867
721966.359	4294273.274	7065	21-Dec-13	ALEX122113 (1).SSF	570072.9611	30868
721966.834	4294273.022	6716	21-Dec-13	ALEX122113 (1).SSF	570073.788	30869
721967.611	4294272.669	6839	21-Dec-13	ALEX122113 (1).SSF	570074.875	30870
721968.222	4294272.397	6690	21-Dec-13	ALEX122113 (1).SSF	570075.646	30871
721969.085	4294272.088	5872	21-Dec-13	ALEX122113 (1).SSF	570076.818	30872
721969.707	4294271.819	6507	21-Dec-13	ALEX122113 (1).SSF	570077.738	30873
721970.494	4294271.425	6546	21-Dec-13	ALEX122113 (1).SSF	570078.776	30874
721971.2	4294271.064	6856	21-Dec-13	ALEX122113 (1).SSF	570079.7419	30875
721971.973	4294270.665	6574	21-Dec-13	ALEX122113 (1).SSF	570080.8621	30876
721972.647	4294270.395	6893	21-Dec-13	ALEX122113 (1).SSF	570081.802	30877
721973.357	4294270.047	7063	21-Dec-13	ALEX122113 (1).SSF	570082.833	30878
721973.962	4294269.708	6986	21-Dec-13	ALEX122113 (1).SSF	570083.748	30879
721974.586	4294269.396	6756	21-Dec-13	ALEX122113 (1).SSF	570084.8979	30880
721974.968	4294269.138	6639	21-Dec-13	ALEX122113 (1).SSF	570085.844	30881
721975.473	4294268.86	6969	21-Dec-13	ALEX122113 (1).SSF	570086.84	30882
721976.086	4294268.53	6242	21-Dec-13	ALEX122113 (1).SSF	570087.759	30883
721976.853	4294268.101	7050	21-Dec-13	ALEX122113 (1).SSF	570088.8879	30884
721977.243	4294267.855	7012	21-Dec-13	ALEX122113 (1).SSF	570089.835	30885
721977.555	4294267.693	6613	21-Dec-13	ALEX122113 (1).SSF	570090.917	30886
721977.963	4294267.605	7353	21-Dec-13	ALEX122113 (1).SSF	570091.757	30887
721978.6	4294267.268	6998	21-Dec-13	ALEX122113 (1).SSF	570092.916	30888
721979.127	4294266.674	6189	21-Dec-13	ALEX122113 (1).SSF	570093.809	30889
721979.565	4294265.998	6131	21-Dec-13	ALEX122113 (1).SSF	570094.837	30890
721979.81	4294265.542	6034	21-Dec-13	ALEX122113 (1).SSF	570095.764	30891
721980.29	4294264.97	5966	21-Dec-13	ALEX122113 (1).SSF	570096.8979	30892
721980.672	4294264.416	6161	21-Dec-13	ALEX122113 (1).SSF	570097.752	30893
721981.092	4294263.772	5970	21-Dec-13	ALEX122113 (1).SSF	570098.801	30894
721981.423	4294263.383	5998	21-Dec-13	ALEX122113 (1).SSF	570099.7271	30895
721981.794	4294262.9	7109	21-Dec-13	ALEX122113 (1).SSF	570100.829	30896
721982.279	4294262.291	6997	21-Dec-13	ALEX122113 (1).SSF	570101.7419	30897

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721982.954	4294261.502	6309	21-Dec-13	ALEX122113 (1).SSF	570102.874	30898
721983.384	4294260.908	6647	21-Dec-13	ALEX122113 (1).SSF	570103.762	30899
721984.026	4294260.158	7211	21-Dec-13	ALEX122113 (1).SSF	570104.9091	30900
721984.336	4294259.562	6603	21-Dec-13	ALEX122113 (1).SSF	570105.845	30901
721984.346	4294259.265	6090	21-Dec-13	ALEX122113 (1).SSF	570106.869	30902
721984.397	4294259.309	5658	21-Dec-13	ALEX122113 (1).SSF	570107.77	30903
721984.374	4294259.399	5995	21-Dec-13	ALEX122113 (1).SSF	570108.897	30904
721984.387	4294259.41	6237	21-Dec-13	ALEX122113 (1).SSF	570109.825	30905
721984.518	4294259.161	6839	21-Dec-13	ALEX122113 (1).SSF	570110.8831	30906
721984.91	4294258.549	6600	21-Dec-13	ALEX122113 (1).SSF	570111.804	30907
721985.541	4294257.851	7200	21-Dec-13	ALEX122113 (1).SSF	570112.847	30908
721986.1	4294257.25	6420	21-Dec-13	ALEX122113 (1).SSF	570113.776	30909
721986.745	4294256.562	6885	21-Dec-13	ALEX122113 (1).SSF	570114.825	30910
721987.208	4294256.114	6521	21-Dec-13	ALEX122113 (1).SSF	570115.755	30911
721987.807	4294255.609	6190	21-Dec-13	ALEX122113 (1).SSF	570116.929	30912
721988.332	4294255.056	7067	21-Dec-13	ALEX122113 (1).SSF	570117.83	30913
721988.729	4294254.338	8006	21-Dec-13	ALEX122113 (1).SSF	570118.855	30914
721988.974	4294253.901	7191	21-Dec-13	ALEX122113 (1).SSF	570119.791	30915
721989.348	4294253.535	7228	21-Dec-13	ALEX122113 (1).SSF	570120.817	30916
721989.69	4294253.206	7447	21-Dec-13	ALEX122113 (1).SSF	570121.76	30917
721990.276	4294252.664	8281	21-Dec-13	ALEX122113 (1).SSF	570122.826	30918
721990.82	4294251.989	7620	21-Dec-13	ALEX122113 (1).SSF	570123.761	30919
721991.413	4294251.316	7725	21-Dec-13	ALEX122113 (1).SSF	570124.788	30920
721991.879	4294250.709	7391	21-Dec-13	ALEX122113 (1).SSF	570125.76	30921
721992.36	4294249.957	8088	21-Dec-13	ALEX122113 (1).SSF	570126.839	30922
721992.763	4294249.335	8202	21-Dec-13	ALEX122113 (1).SSF	570127.788	30923
721993.499	4294248.442	7480	21-Dec-13	ALEX122113 (1).SSF	570128.839	30924
721994.093	4294247.776	7480	21-Dec-13	ALEX122113 (1).SSF	570129.771	30925
721994.544	4294247.16	7780	21-Dec-13	ALEX122113 (1).SSF	570130.752	30926
721994.942	4294246.559	7675	21-Dec-13	ALEX122113 (1).SSF	570131.75	30927
721995.512	4294245.824	7798	21-Dec-13	ALEX122113 (1).SSF	570132.856	30928
721995.987	4294245.17	7889	21-Dec-13	ALEX122113 (1).SSF	570133.7729	30929
721996.506	4294244.495	7972	21-Dec-13	ALEX122113 (1).SSF	570134.855	30930
721996.997	4294243.816	7933	21-Dec-13	ALEX122113 (1).SSF	570135.793	30931
721997.518	4294243.071	8853	21-Dec-13	ALEX122113 (1).SSF	570136.821	30932
721997.7	4294242.401	7733	21-Dec-13	ALEX122113 (1).SSF	570137.827	30933
721997.852	4294241.977	8293	21-Dec-13	ALEX122113 (1).SSF	570138.8621	30934
721998.169	4294241.83	8793	21-Dec-13	ALEX122113 (1).SSF	570139.787	30935
721998.599	4294241.413	8888	21-Dec-13	ALEX122113 (1).SSF	570140.8571	30936
721999.01	4294240.971	7352	21-Dec-13	ALEX122113 (1).SSF	570141.673	30937
721999.616	4294240.395	8528	21-Dec-13	ALEX122113 (1).SSF	570142.859	30938
721999.971	4294239.842	8582	21-Dec-13	ALEX122113 (1).SSF	570143.775	30939
722000.601	4294239.062	8775	21-Dec-13	ALEX122113 (1).SSF	570144.828	30940
722001.286	4294238.316	8703	21-Dec-13	ALEX122113 (1).SSF	570145.707	30941
722001.741	4294237.545	8056	21-Dec-13	ALEX122113 (1).SSF	570146.807	30942
722002.08	4294236.949	7864	21-Dec-13	ALEX122113 (1).SSF	570147.71	30943
722002.724	4294236.172	8146	21-Dec-13	ALEX122113 (1).SSF	570148.817	30944

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722003.096	4294235.675	7976	21-Dec-13	ALEX122113 (1).SSF	570149.726	30945
722003.66	4294235.022	8054	21-Dec-13	ALEX122113 (1).SSF	570150.782	30946
722004.315	4294234.305	7293	21-Dec-13	ALEX122113 (1).SSF	570151.688	30947
722004.787	4294233.63	7793	21-Dec-13	ALEX122113 (1).SSF	570152.79	30948
722005.204	4294233.153	8008	21-Dec-13	ALEX122113 (1).SSF	570153.7159	30949
722005.952	4294232.328	7702	21-Dec-13	ALEX122113 (1).SSF	570154.858	30950
722006.589	4294231.551	8855	21-Dec-13	ALEX122113 (1).SSF	570155.8	30951
722007.195	4294230.993	9023	21-Dec-13	ALEX122113 (1).SSF	570156.876	30952
722007.511	4294230.504	8166	21-Dec-13	ALEX122113 (1).SSF	570157.776	30953
722007.503	4294229.98	6781	21-Dec-13	ALEX122113 (1).SSF	570158.941	30954
722007.447	4294229.821	8145	21-Dec-13	ALEX122113 (1).SSF	570159.816	30955
722007.578	4294229.722	8006	21-Dec-13	ALEX122113 (1).SSF	570160.8199	30956
722007.823	4294229.51	9171	21-Dec-13	ALEX122113 (1).SSF	570161.827	30957
722007.542	4294229.191	8113	21-Dec-13	ALEX122113 (1).SSF	570162.834	30958
722006.889	4294228.829	7548	21-Dec-13	ALEX122113 (1).SSF	570163.718	30959
722006.309	4294228.289	7827	21-Dec-13	ALEX122113 (1).SSF	570164.884	30960
722006.21	4294227.916	7776	21-Dec-13	ALEX122113 (1).SSF	570165.709	30961
722006.33	4294227.491	8124	21-Dec-13	ALEX122113 (1).SSF	570166.781	30962
722006.597	4294227.184	8631	21-Dec-13	ALEX122113 (1).SSF	570167.743	30963
722006.885	4294226.682	8517	21-Dec-13	ALEX122113 (1).SSF	570168.818	30964
722007.097	4294226.017	8369	21-Dec-13	ALEX122113 (1).SSF	570169.694	30965
722007.314	4294225.41	7402	21-Dec-13	ALEX122113 (1).SSF	570170.843	30966
722007.395	4294225.339	8750	21-Dec-13	ALEX122113 (1).SSF	570171.708	30967
722007.43	4294225.451	6777	21-Dec-13	ALEX122113 (1).SSF	570172.766	30968
722007.632	4294225.556	8534	21-Dec-13	ALEX122113 (1).SSF	570173.771	30969
722008.043	4294225.299	8253	21-Dec-13	ALEX122113 (1).SSF	570174.769	30970
722008.464	4294224.872	8333	21-Dec-13	ALEX122113 (1).SSF	570175.697	30971
722009.105	4294224.353	8743	21-Dec-13	ALEX122113 (1).SSF	570176.851	30972
722009.505	4294224.019	8216	21-Dec-13	ALEX122113 (1).SSF	570177.73	30973
722009.797	4294223.565	7514	21-Dec-13	ALEX122113 (1).SSF	570178.843	30974
722010.174	4294223.127	7458	21-Dec-13	ALEX122113 (1).SSF	570179.771	30975
722010.659	4294222.643	7984	21-Dec-13	ALEX122113 (1).SSF	570180.845	30976
722010.997	4294222.234	9496	21-Dec-13	ALEX122113 (1).SSF	570181.7419	30977
722011.638	4294221.693	8584	21-Dec-13	ALEX122113 (1).SSF	570182.873	30978
722012.239	4294221.176	8776	21-Dec-13	ALEX122113 (1).SSF	570183.812	30979
722012.809	4294220.669	7984	21-Dec-13	ALEX122113 (1).SSF	570184.847	30980
722013.229	4294220.019	7396	21-Dec-13	ALEX122113 (1).SSF	570185.821	30981
722013.617	4294219.3	7489	21-Dec-13	ALEX122113 (1).SSF	570186.939	30982
722014.01	4294218.878	8082	21-Dec-13	ALEX122113 (1).SSF	570187.786	30983
722014.373	4294218.57	7660	21-Dec-13	ALEX122113 (1).SSF	570188.816	30984
722014.444	4294218.303	7945	21-Dec-13	ALEX122113 (1).SSF	570189.786	30985
722014.258	4294218.09	7056	21-Dec-13	ALEX122113 (1).SSF	570190.8199	30986
722014.3	4294218.007	7314	21-Dec-13	ALEX122113 (1).SSF	570191.698	30987
722014.489	4294217.895	7318	21-Dec-13	ALEX122113 (1).SSF	570192.844	30988
722014.722	4294217.857	6899	21-Dec-13	ALEX122113 (1).SSF	570193.739	30989
722014.828	4294217.856	7635	21-Dec-13	ALEX122113 (1).SSF	570194.7939	30990
722014.792	4294217.968	8448	21-Dec-13	ALEX122113 (1).SSF	570195.746	30991

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722014.483	4294218.144	7512	21-Dec-13	ALEX122113 (1).SSF	570196.8831	30992
722014.573	4294218.022	7038	21-Dec-13	ALEX122113 (1).SSF	570197.817	30993
722014.997	4294217.679	7249	21-Dec-13	ALEX122113 (1).SSF	570198.868	30994
722015.11	4294217.49	6732	21-Dec-13	ALEX122113 (1).SSF	570199.8149	30995
722014.987	4294217.398	7053	21-Dec-13	ALEX122113 (1).SSF	570200.839	30996
722014.792	4294217.469	6653	21-Dec-13	ALEX122113 (1).SSF	570201.766	30997
722014.656	4294217.558	7903	21-Dec-13	ALEX122113 (1).SSF	570202.845	30998
722014.514	4294217.967	7676	21-Dec-13	ALEX122113 (1).SSF	570203.707	30999
722014.878	4294218.836	7169	21-Dec-13	ALEX122113 (1).SSF	570204.8199	31000
722015.744	4294219.156	7852	21-Dec-13	ALEX122113 (1).SSF	570205.749	31001
722016.697	4294218.827	8173	21-Dec-13	ALEX122113 (1).SSF	570206.849	31002
722017.103	4294218.004	8163	21-Dec-13	ALEX122113 (1).SSF	570207.757	31003
722017.097	4294217.07	8070	21-Dec-13	ALEX122113 (1).SSF	570208.8459	31004
722016.408	4294216.677	7447	21-Dec-13	ALEX122113 (1).SSF	570209.809	31005
722015.606	4294216.383	6962	21-Dec-13	ALEX122113 (1).SSF	570210.8719	31006
722015.464	4294216.289	7590	21-Dec-13	ALEX122113 (1).SSF	570211.812	31007
722015.781	4294215.877	6937	21-Dec-13	ALEX122113 (1).SSF	570212.908	31008
722016.298	4294215.579	7434	21-Dec-13	ALEX122113 (1).SSF	570213.7889	31009
722016.765	4294215.216	7408	21-Dec-13	ALEX122113 (1).SSF	570214.8621	31010
722017.046	4294214.847	7852	21-Dec-13	ALEX122113 (1).SSF	570215.795	31011
722017.532	4294214.324	7663	21-Dec-13	ALEX122113 (1).SSF	570216.886	31012
722018.058	4294213.808	7135	21-Dec-13	ALEX122113 (1).SSF	570217.7371	31013
722018.61	4294213.097	7694	21-Dec-13	ALEX122113 (1).SSF	570218.817	31014
722019.031	4294212.547	8493	21-Dec-13	ALEX122113 (1).SSF	570219.7321	31015
722019.654	4294211.764	9413	21-Dec-13	ALEX122113 (1).SSF	570220.798	31016
722020.172	4294211.043	7933	21-Dec-13	ALEX122113 (1).SSF	570221.762	31017
722020.638	4294210.336	7833	21-Dec-13	ALEX122113 (1).SSF	570222.912	31018
722020.862	4294209.799	8228	21-Dec-13	ALEX122113 (1).SSF	570223.757	31019
722021.147	4294209.264	8387	21-Dec-13	ALEX122113 (1).SSF	570224.764	31020
722021.623	4294208.735	8186	21-Dec-13	ALEX122113 (1).SSF	570225.7729	31021
722022.086	4294208.008	7776	21-Dec-13	ALEX122113 (1).SSF	570226.8781	31022
722022.623	4294207.602	7944	21-Dec-13	ALEX122113 (1).SSF	570227.736	31023
722023.215	4294206.949	8346	21-Dec-13	ALEX122113 (1).SSF	570228.795	31024
722023.553	4294206.3	7876	21-Dec-13	ALEX122113 (1).SSF	570229.7321	31025
722024.029	4294205.677	8119	21-Dec-13	ALEX122113 (1).SSF	570230.7729	31026
722024.589	4294205.154	7819	21-Dec-13	ALEX122113 (1).SSF	570231.759	31027
722025.107	4294204.693	7235	21-Dec-13	ALEX122113 (1).SSF	570232.772	31028
722025.359	4294204.168	7718	21-Dec-13	ALEX122113 (1).SSF	570233.73	31029
722025.581	4294203.403	8109	21-Dec-13	ALEX122113 (1).SSF	570234.845	31030
722025.747	4294202.695	7787	21-Dec-13	ALEX122113 (1).SSF	570235.725	31031
722025.899	4294201.95	7466	21-Dec-13	ALEX122113 (1).SSF	570236.79	31032
722026.09	4294201.467	7296	21-Dec-13	ALEX122113 (1).SSF	570237.666	31033
722026.445	4294200.852	7824	21-Dec-13	ALEX122113 (1).SSF	570238.772	31034
722026.949	4294200.448	7026	21-Dec-13	ALEX122113 (1).SSF	570239.7629	31035
722027.56	4294200.303	8446	21-Dec-13	ALEX122113 (1).SSF	570240.824	31036
722028.049	4294200.049	7961	21-Dec-13	ALEX122113 (1).SSF	570241.723	31037
722028.685	4294199.513	8020	21-Dec-13	ALEX122113 (1).SSF	570242.8199	31038

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722029.152	4294199.132	8215	21-Dec-13	ALEX122113 (1).SSF	570243.724	31039
722029.384	4294198.85	6853	21-Dec-13	ALEX122113 (1).SSF	570244.827	31040
722029.342	4294198.766	7623	21-Dec-13	ALEX122113 (1).SSF	570245.764	31041
722029.298	4294198.704	7965	21-Dec-13	ALEX122113 (1).SSF	570246.8	31042
722029.4	4294198.583	7241	21-Dec-13	ALEX122113 (1).SSF	570247.718	31043
722029.553	4294198.209	8020	21-Dec-13	ALEX122113 (1).SSF	570248.786	31044
722029.891	4294197.688	7345	21-Dec-13	ALEX122113 (1).SSF	570249.712	31045
722030.45	4294196.937	9156	21-Dec-13	ALEX122113 (1).SSF	570250.839	31046
722031.033	4294196.275	7989	21-Dec-13	ALEX122113 (1).SSF	570251.788	31047
722031.589	4294195.561	7997	21-Dec-13	ALEX122113 (1).SSF	570252.843	31048
722032.154	4294194.948	7999	21-Dec-13	ALEX122113 (1).SSF	570253.777	31049
722032.769	4294194.333	8299	21-Dec-13	ALEX122113 (1).SSF	570254.882	31050
722033.054	4294193.828	8885	21-Dec-13	ALEX122113 (1).SSF	570255.666	31051
722033.615	4294193.003	8911	21-Dec-13	ALEX122113 (1).SSF	570256.76	31052
722034.196	4294192.369	7267	21-Dec-13	ALEX122113 (1).SSF	570257.678	31053
722034.827	4294191.615	7487	21-Dec-13	ALEX122113 (1).SSF	570258.776	31054
722035.291	4294190.996	8711	21-Dec-13	ALEX122113 (1).SSF	570259.691	31055
722035.897	4294190.304	9708	21-Dec-13	ALEX122113 (1).SSF	570260.86	31056
722036.374	4294189.688	9507	21-Dec-13	ALEX122113 (1).SSF	570261.734	31057
722037.011	4294188.833	9096	21-Dec-13	ALEX122113 (1).SSF	570262.842	31058
722037.58	4294188.242	8814	21-Dec-13	ALEX122113 (1).SSF	570263.72	31059
722038.303	4294187.509	8083	21-Dec-13	ALEX122113 (1).SSF	570264.864	31060
722038.739	4294186.974	8321	21-Dec-13	ALEX122113 (1).SSF	570265.667	31061
722039.403	4294186.253	7540	21-Dec-13	ALEX122113 (1).SSF	570266.7729	31062
722039.994	4294185.689	7255	21-Dec-13	ALEX122113 (1).SSF	570267.73	31063
722040.539	4294185.099	8113	21-Dec-13	ALEX122113 (1).SSF	570268.738	31064
722041.159	4294184.369	7938	21-Dec-13	ALEX122113 (1).SSF	570269.74	31065
722041.812	4294183.694	8404	21-Dec-13	ALEX122113 (1).SSF	570270.7581	31066
722042.234	4294183.068	7891	21-Dec-13	ALEX122113 (1).SSF	570271.689	31067
722042.636	4294182.129	6562	21-Dec-13	ALEX122113 (1).SSF	570272.822	31068
722043.095	4294181.372	7730	21-Dec-13	ALEX122113 (1).SSF	570273.731	31069
722043.699	4294180.535	6732	21-Dec-13	ALEX122113 (1).SSF	570274.833	31070
722044.165	4294179.888	7173	21-Dec-13	ALEX122113 (1).SSF	570275.726	31071
722044.758	4294179.233	6473	21-Dec-13	ALEX122113 (1).SSF	570276.826	31072
722045.283	4294178.671	6328	21-Dec-13	ALEX122113 (1).SSF	570277.728	31073
722045.842	4294177.897	6022	21-Dec-13	ALEX122113 (1).SSF	570278.832	31074
722046.425	4294177.411	5990	21-Dec-13	ALEX122113 (1).SSF	570279.743	31075
722047.014	4294176.987	7271	21-Dec-13	ALEX122113 (1).SSF	570280.731	31076
722047.472	4294176.444	8117	21-Dec-13	ALEX122113 (1).SSF	570281.731	31077
722047.955	4294175.727	8179	21-Dec-13	ALEX122113 (1).SSF	570282.719	31078
722048.432	4294175.13	7024	21-Dec-13	ALEX122113 (1).SSF	570283.7209	31079
722048.81	4294174.642	7696	21-Dec-13	ALEX122113 (1).SSF	570284.7469	31080
722049.242	4294173.987	8074	21-Dec-13	ALEX122113 (1).SSF	570285.734	31081
722049.751	4294173.08	7238	21-Dec-13	ALEX122113 (1).SSF	570286.8459	31082
722049.988	4294172.402	6459	21-Dec-13	ALEX122113 (1).SSF	570287.7841	31083
722050.212	4294171.793	6685	21-Dec-13	ALEX122113 (1).SSF	570288.809	31084
722050.432	4294171.187	6561	21-Dec-13	ALEX122113 (1).SSF	570289.788	31085

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722050.826	4294170.443	7220	21-Dec-13	ALEX122113 (1).SSF	570290.743	31086
722051.286	4294169.732	6695	21-Dec-13	ALEX122113 (1).SSF	570291.6851	31087
722051.612	4294169	6803	21-Dec-13	ALEX122113 (1).SSF	570292.73	31088
722051.853	4294168.257	6681	21-Dec-13	ALEX122113 (1).SSF	570293.673	31089
722052.134	4294167.449	6180	21-Dec-13	ALEX122113 (1).SSF	570294.797	31090
722052.229	4294166.938	6375	21-Dec-13	ALEX122113 (1).SSF	570295.7469	31091
722052.216	4294166.293	6453	21-Dec-13	ALEX122113 (1).SSF	570296.756	31092
722052.05	4294165.536	6923	21-Dec-13	ALEX122113 (1).SSF	570297.7371	31093
722051.825	4294164.643	5931	21-Dec-13	ALEX122113 (1).SSF	570298.749	31094
722051.72	4294163.809	5869	21-Dec-13	ALEX122113 (1).SSF	570299.723	31095
722051.616	4294162.871	6256	21-Dec-13	ALEX122113 (1).SSF	570300.843	31096
722051.552	4294162.235	6784	21-Dec-13	ALEX122113 (1).SSF	570301.697	31097
722051.439	4294161.391	5679	21-Dec-13	ALEX122113 (1).SSF	570302.8149	31098
722051.22	4294160.546	5549	21-Dec-13	ALEX122113 (1).SSF	570303.775	31099
722051.068	4294159.634	5746	21-Dec-13	ALEX122113 (1).SSF	570304.845	31100
722051.083	4294158.894	5865	21-Dec-13	ALEX122113 (1).SSF	570305.731	31101
722051.111	4294157.878	5639	21-Dec-13	ALEX122113 (1).SSF	570306.7729	31102
722051.061	4294156.957	5954	21-Dec-13	ALEX122113 (1).SSF	570307.709	31103
722050.933	4294156.092	5458	21-Dec-13	ALEX122113 (1).SSF	570308.797	31104
722050.954	4294155.527	5770	21-Dec-13	ALEX122113 (1).SSF	570309.6541	31105
722051.109	4294155.054	6073	21-Dec-13	ALEX122113 (1).SSF	570310.74	31106
722051.106	4294154.69	5712	21-Dec-13	ALEX122113 (1).SSF	570311.632	31107
722050.853	4294153.83	5547	21-Dec-13	ALEX122113 (1).SSF	570312.804	31108
722050.777	4294152.984	6202	21-Dec-13	ALEX122113 (1).SSF	570313.66	31109
722050.86	4294152.071	5780	21-Dec-13	ALEX122113 (1).SSF	570314.785	31110
722050.901	4294151.68	6056	21-Dec-13	ALEX122113 (1).SSF	570315.691	31111
722051.005	4294151.434	5991	21-Dec-13	ALEX122113 (1).SSF	570316.849	31112
722051.042	4294151.502	5891	21-Dec-13	ALEX122113 (1).SSF	570317.746	31113
722051.061	4294151.717	6261	21-Dec-13	ALEX122113 (1).SSF	570318.814	31114
722051.139	4294151.801	7505	21-Dec-13	ALEX122113 (1).SSF	570319.736	31115
722051.321	4294151.959	6226	21-Dec-13	ALEX122113 (1).SSF	570320.8459	31116
722051.68	4294152.167	6533	21-Dec-13	ALEX122113 (1).SSF	570321.746	31117
722052.128	4294152.667	6047	21-Dec-13	ALEX122113 (1).SSF	570322.8409	31118
722052.277	4294153.21	7277	21-Dec-13	ALEX122113 (1).SSF	570323.76	31119
722052.491	4294153.906	6589	21-Dec-13	ALEX122113 (1).SSF	570324.8571	31120
722052.701	4294154.324	6987	21-Dec-13	ALEX122113 (1).SSF	570325.655	31121
722053.013	4294155.132	6187	21-Dec-13	ALEX122113 (1).SSF	570326.774	31122
722053.443	4294155.795	7546	21-Dec-13	ALEX122113 (1).SSF	570327.743	31123
722054.035	4294156.551	8246	21-Dec-13	ALEX122113 (1).SSF	570328.821	31124
722054.607	4294157.019	6951	21-Dec-13	ALEX122113 (1).SSF	570329.723	31125
722055.311	4294157.419	7348	21-Dec-13	ALEX122113 (1).SSF	570330.756	31126
722055.912	4294157.792	8047	21-Dec-13	ALEX122113 (1).SSF	570331.662	31127
722056.48	4294158.035	9541	21-Dec-13	ALEX122113 (1).SSF	570332.797	31128
722056.863	4294157.956	9225	21-Dec-13	ALEX122113 (1).SSF	570333.6949	31129
722057.493	4294157.864	8816	21-Dec-13	ALEX122113 (1).SSF	570334.7321	31130
722058.155	4294157.947	9074	21-Dec-13	ALEX122113 (1).SSF	570335.697	31131
722058.877	4294158.159	9378	21-Dec-13	ALEX122113 (1).SSF	570336.729	31132

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722059.453	4294158.365	10024	21-Dec-13	ALEX122113 (1).SSF	570337.698	31133
722059.815	4294158.481	9976	21-Dec-13	ALEX122113 (1).SSF	570338.746	31134
722059.898	4294158.486	10054	21-Dec-13	ALEX122113 (1).SSF	570339.698	31135
722059.911	4294158.531	9353	21-Dec-13	ALEX122113 (1).SSF	570340.822	31136
722060.104	4294158.529	9178	21-Dec-13	ALEX122113 (1).SSF	570341.687	31137
722060.439	4294158.706	10034	21-Dec-13	ALEX122113 (1).SSF	570342.75	31138
722060.656	4294158.903	9978	21-Dec-13	ALEX122113 (1).SSF	570343.75	31139
722060.741	4294159.052	10024	21-Dec-13	ALEX122113 (1).SSF	570344.75	31140
722060.821	4294159.101	9196	21-Dec-13	ALEX122113 (1).SSF	570345.73	31141
722061.054	4294159.088	9919	21-Dec-13	ALEX122113 (1).SSF	570346.745	31142
722061.207	4294159.078	9379	21-Dec-13	ALEX122113 (1).SSF	570347.734	31143
722061.324	4294158.936	9635	21-Dec-13	ALEX122113 (1).SSF	570348.786	31144
722061.273	4294158.829	9248	21-Dec-13	ALEX122113 (1).SSF	570349.735	31145
722061.243	4294158.789	8822	21-Dec-13	ALEX122113 (1).SSF	570350.796	31146
722061.203	4294158.788	8265	21-Dec-13	ALEX122113 (1).SSF	570351.672	31147
722061.125	4294158.791	7766	21-Dec-13	ALEX122113 (1).SSF	570352.781	31148
722061.062	4294158.8	8301	21-Dec-13	ALEX122113 (1).SSF	570353.734	31149
722061.042	4294158.796	8585	21-Dec-13	ALEX122113 (1).SSF	570354.814	31150
722061.077	4294158.759	7966	21-Dec-13	ALEX122113 (1).SSF	570355.702	31151
722061.098	4294158.725	8351	21-Dec-13	ALEX122113 (1).SSF	570356.803	31152
722061.094	4294158.718	9288	21-Dec-13	ALEX122113 (1).SSF	570357.7	31153
722061.095	4294158.725	8412	21-Dec-13	ALEX122113 (1).SSF	570358.798	31154
722061.087	4294158.744	9063	21-Dec-13	ALEX122113 (1).SSF	570359.722	31155
722061.075	4294158.765	8085	21-Dec-13	ALEX122113 (1).SSF	570360.8361	31156
722061.069	4294158.78	8021	21-Dec-13	ALEX122113 (1).SSF	570361.749	31157
722061.087	4294158.787	9475	21-Dec-13	ALEX122113 (1).SSF	570362.755	31158
722061.105	4294158.787	9089	21-Dec-13	ALEX122113 (1).SSF	570363.715	31159
722061.097	4294158.792	8032	21-Dec-13	ALEX122113 (1).SSF	570364.769	31160
722061.08	4294158.789	9298	21-Dec-13	ALEX122113 (1).SSF	570365.6219	31161
722061.078	4294158.775	9284	21-Dec-13	ALEX122113 (1).SSF	570366.7419	31162
722061.081	4294158.765	8951	21-Dec-13	ALEX122113 (1).SSF	570367.6379	31163
722061.08	4294158.762	8147	21-Dec-13	ALEX122113 (1).SSF	570368.755	31164
722061.101	4294158.754	8246	21-Dec-13	ALEX122113 (1).SSF	570369.6689	31165
722061.127	4294158.735	9141	21-Dec-13	ALEX122113 (1).SSF	570370.8311	31166
722061.128	4294158.727	8585	21-Dec-13	ALEX122113 (1).SSF	570371.6639	31167
722061.134	4294158.716	8596	21-Dec-13	ALEX122113 (1).SSF	570372.8199	31168
722061.105	4294158.739	10039	21-Dec-13	ALEX122113 (1).SSF	570373.754	31169
722061.026	4294158.793	9679	21-Dec-13	ALEX122113 (1).SSF	570374.762	31170
722061.021	4294158.807	9290	21-Dec-13	ALEX122113 (1).SSF	570375.634	31171
722061.028	4294158.794	9252	21-Dec-13	ALEX122113 (1).SSF	570376.754	31172
722061.057	4294158.774	8673	21-Dec-13	ALEX122113 (1).SSF	570377.661	31173
722061.086	4294158.753	9398	21-Dec-13	ALEX122113 (1).SSF	570378.702	31174
722061.088	4294158.739	8739	21-Dec-13	ALEX122113 (1).SSF	570379.652	31175
722061.078	4294158.732	8965	21-Dec-13	ALEX122113 (1).SSF	570380.734	31176
722061.073	4294158.726	10401	21-Dec-13	ALEX122113 (1).SSF	570381.656	31177
722061.07	4294158.721	9560	21-Dec-13	ALEX122113 (1).SSF	570382.7321	31178
722061.066	4294158.715	8630	21-Dec-13	ALEX122113 (1).SSF	570383.644	31179

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722061.051	4294158.709	9477	21-Dec-13	ALEX122113 (1).SSF	570384.744	31180
722061.037	4294158.719	9659	21-Dec-13	ALEX122113 (1).SSF	570385.624	31181
722061.029	4294158.727	9585	21-Dec-13	ALEX122113 (1).SSF	570386.7419	31182
722061.032	4294158.725	8456	21-Dec-13	ALEX122113 (1).SSF	570387.594	31183
722061.033	4294158.719	9464	21-Dec-13	ALEX122113 (1).SSF	570388.728	31184
722061.026	4294158.72	9236	21-Dec-13	ALEX122113 (1).SSF	570389.627	31185
722061.016	4294158.723	8939	21-Dec-13	ALEX122113 (1).SSF	570390.729	31186
722061.019	4294158.714	9674	21-Dec-13	ALEX122113 (1).SSF	570391.585	31187
722061.033	4294158.697	9618	21-Dec-13	ALEX122113 (1).SSF	570392.725	31188
722061.052	4294158.685	9664	21-Dec-13	ALEX122113 (1).SSF	570393.6479	31189
722061.077	4294158.67	9706	21-Dec-13	ALEX122113 (1).SSF	570394.658	31190
722061.079	4294158.657	9026	21-Dec-13	ALEX122113 (1).SSF	570395.717	31191
722061.091	4294158.645	9726	21-Dec-13	ALEX122113 (1).SSF	570396.755	31192
722061.101	4294158.632	9061	21-Dec-13	ALEX122113 (1).SSF	570397.655	31193
722061.094	4294158.627	9705	21-Dec-13	ALEX122113 (1).SSF	570398.762	31194
722061.088	4294158.64	8606	21-Dec-13	ALEX122113 (1).SSF	570399.635	31195
722061.07	4294158.661	9621	21-Dec-13	ALEX122113 (1).SSF	570400.7469	31196
722061.12	4294158.664	9155	21-Dec-13	ALEX122113 (1).SSF	570401.7419	31197
722061.165	4294158.663	9368	21-Dec-13	ALEX122113 (1).SSF	570402.754	31198
722061.177	4294158.661	8222	21-Dec-13	ALEX122113 (1).SSF	570403.701	31199
722061.171	4294158.668	10065	21-Dec-13	ALEX122113 (1).SSF	570404.775	31200
722061.165	4294158.68	9266	21-Dec-13	ALEX122113 (1).SSF	570405.631	31201
722061.165	4294158.697	8946	21-Dec-13	ALEX122113 (1).SSF	570406.746	31202
722061.174	4294158.706	9526	21-Dec-13	ALEX122113 (1).SSF	570407.641	31203
722061.189	4294158.715	8471	21-Dec-13	ALEX122113 (1).SSF	570408.736	31204
722061.203	4294158.717	9738	21-Dec-13	ALEX122113 (1).SSF	570409.661	31205
722061.213	4294158.717	7954	21-Dec-13	ALEX122113 (1).SSF	570410.816	31206
722061.218	4294158.722	8438	21-Dec-13	ALEX122113 (1).SSF	570411.718	31207
722061.22	4294158.731	8529	21-Dec-13	ALEX122113 (1).SSF	570412.735	31208
722061.226	4294158.738	8642	21-Dec-13	ALEX122113 (1).SSF	570413.72	31209
722061.233	4294158.746	7800	21-Dec-13	ALEX122113 (1).SSF	570414.749	31210
722061.233	4294158.757	8880	21-Dec-13	ALEX122113 (1).SSF	570415.693	31211
722061.23	4294158.772	9150	21-Dec-13	ALEX122113 (1).SSF	570416.752	31212
722061.233	4294158.775	8917	21-Dec-13	ALEX122113 (1).SSF	570417.655	31213
722061.239	4294158.771	8439	21-Dec-13	ALEX122113 (1).SSF	570418.75	31214
722061.224	4294158.764	7660	21-Dec-13	ALEX122113 (1).SSF	570419.7209	31215
722061.221	4294158.758	8275	21-Dec-13	ALEX122113 (1).SSF	570420.718	31216
722061.224	4294158.752	8638	21-Dec-13	ALEX122113 (1).SSF	570421.719	31217
722061.246	4294158.738	8789	21-Dec-13	ALEX122113 (1).SSF	570422.746	31218
722061.242	4294158.732	8647	21-Dec-13	ALEX122113 (1).SSF	570423.645	31219
722061.225	4294158.723	8971	21-Dec-13	ALEX122113 (1).SSF	570424.765	31220
722061.217	4294158.715	9142	21-Dec-13	ALEX122113 (1).SSF	570425.619	31221
722061.198	4294158.717	8105	21-Dec-13	ALEX122113 (1).SSF	570426.684	31222
722061.176	4294158.724	9226	21-Dec-13	ALEX122113 (1).SSF	570427.67	31223
722061.163	4294158.721	9686	21-Dec-13	ALEX122113 (1).SSF	570428.761	31224
722061.155	4294158.713	9771	21-Dec-13	ALEX122113 (1).SSF	570429.665	31225
722061.132	4294158.72	8383	21-Dec-13	ALEX122113 (1).SSF	570430.7159	31226

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722061.105	4294158.732	9175	21-Dec-13	ALEX122113 (1).SSF	570431.6169	31227
722061.087	4294158.746	8714	21-Dec-13	ALEX122113 (1).SSF	570432.7209	31228
722061.083	4294158.74	9288	21-Dec-13	ALEX122113 (1).SSF	570433.649	31229
722061.088	4294158.728	8832	21-Dec-13	ALEX122113 (1).SSF	570434.751	31230
722061.081	4294158.725	8328	21-Dec-13	ALEX122113 (1).SSF	570435.636	31231
722061.07	4294158.722	8772	21-Dec-13	ALEX122113 (1).SSF	570436.726	31232
722061.066	4294158.717	9483	21-Dec-13	ALEX122113 (1).SSF	570437.63	31233
722061.068	4294158.712	9420	21-Dec-13	ALEX122113 (1).SSF	570438.735	31234
722061.071	4294158.712	8805	21-Dec-13	ALEX122113 (1).SSF	570439.668	31235
722061.059	4294158.722	8951	21-Dec-13	ALEX122113 (1).SSF	570440.798	31236
722061.05	4294158.733	8688	21-Dec-13	ALEX122113 (1).SSF	570441.708	31237
722061.04	4294158.741	9582	21-Dec-13	ALEX122113 (1).SSF	570442.7531	31238
722061.033	4294158.743	9565	21-Dec-13	ALEX122113 (1).SSF	570443.6479	31239
722061.019	4294158.745	9081	21-Dec-13	ALEX122113 (1).SSF	570444.75	31240
722061.02	4294158.738	9650	21-Dec-13	ALEX122113 (1).SSF	570445.627	31241
722060.999	4294158.736	10302	21-Dec-13	ALEX122113 (1).SSF	570446.729	31242
722061	4294158.73	10495	21-Dec-13	ALEX122113 (1).SSF	570447.642	31243
722061.011	4294158.725	9164	21-Dec-13	ALEX122113 (1).SSF	570448.746	31244
722061.012	4294158.717	8531	21-Dec-13	ALEX122113 (1).SSF	570449.647	31245
722061.025	4294158.719	10112	21-Dec-13	ALEX122113 (1).SSF	570450.738	31246
722061.043	4294158.728	9308	21-Dec-13	ALEX122113 (1).SSF	570451.5959	31247
722061.058	4294158.745	9077	21-Dec-13	ALEX122113 (1).SSF	570452.702	31248
722061.064	4294158.753	9079	21-Dec-13	ALEX122113 (1).SSF	570453.6379	31249
722061.061	4294158.759	7429	21-Dec-13	ALEX122113 (1).SSF	570454.709	31250
722061.058	4294158.765	8547	21-Dec-13	ALEX122113 (1).SSF	570455.658	31251
722061.059	4294158.766	8767	21-Dec-13	ALEX122113 (1).SSF	570456.687	31252
722061.055	4294158.761	8523	21-Dec-13	ALEX122113 (1).SSF	570457.615	31253
722061.053	4294158.757	8640	21-Dec-13	ALEX122113 (1).SSF	570458.713	31254
722061.051	4294158.76	9390	21-Dec-13	ALEX122113 (1).SSF	570459.698	31255
722061.048	4294158.762	8977	21-Dec-13	ALEX122113 (1).SSF	570460.743	31256
722061.054	4294158.764	9534	21-Dec-13	ALEX122113 (1).SSF	570461.724	31257
722061.055	4294158.765	9043	21-Dec-13	ALEX122113 (1).SSF	570462.751	31258
722061.051	4294158.763	8681	21-Dec-13	ALEX122113 (1).SSF	570463.708	31259
722061.053	4294158.765	9130	21-Dec-13	ALEX122113 (1).SSF	570464.743	31260
722061.055	4294158.768	8912	21-Dec-13	ALEX122113 (1).SSF	570465.65	31261
722061.049	4294158.771	9788	21-Dec-13	ALEX122113 (1).SSF	570466.793	31262
722061.042	4294158.771	9527	21-Dec-13	ALEX122113 (1).SSF	570467.7111	31263
722061.036	4294158.772	10391	21-Dec-13	ALEX122113 (1).SSF	570468.767	31264
722061.031	4294158.776	10878	21-Dec-13	ALEX122113 (1).SSF	570469.708	31265
722061.025	4294158.782	9349	21-Dec-13	ALEX122113 (1).SSF	570470.76	31266
722061.029	4294158.79	9957	21-Dec-13	ALEX122113 (1).SSF	570471.7	31267
722061.033	4294158.8	10409	21-Dec-13	ALEX122113 (1).SSF	570472.7581	31268
722061.026	4294158.803	8662	21-Dec-13	ALEX122113 (1).SSF	570473.634	31269
722060.993	4294158.822	8525	21-Dec-13	ALEX122113 (1).SSF	570474.79	31270
722060.958	4294158.845	8761	21-Dec-13	ALEX122113 (1).SSF	570475.675	31271
722060.949	4294158.846	8790	21-Dec-13	ALEX122113 (1).SSF	570476.793	31272
722060.963	4294158.829	8617	21-Dec-13	ALEX122113 (1).SSF	570477.6429	31273

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722060.989	4294158.798	8754	21-Dec-13	ALEX122113 (1).SSF	570478.7791	31274
722060.995	4294158.79	8608	21-Dec-13	ALEX122113 (1).SSF	570479.66	31275
722061.006	4294158.785	8482	21-Dec-13	ALEX122113 (1).SSF	570480.741	31276
722061.017	4294158.777	8960	21-Dec-13	ALEX122113 (1).SSF	570481.62	31277
722061.015	4294158.765	9410	21-Dec-13	ALEX122113 (1).SSF	570482.772	31278
722061.01	4294158.761	8892	21-Dec-13	ALEX122113 (1).SSF	570483.627	31279
722061.011	4294158.76	9393	21-Dec-13	ALEX122113 (1).SSF	570484.748	31280
722061.012	4294158.761	9188	21-Dec-13	ALEX122113 (1).SSF	570485.614	31281
722061.008	4294158.757	10367	21-Dec-13	ALEX122113 (1).SSF	570486.705	31282
722061.01	4294158.753	9371	21-Dec-13	ALEX122113 (1).SSF	570487.601	31283
722061.022	4294158.75	9063	21-Dec-13	ALEX122113 (1).SSF	570488.7	31284
722061.034	4294158.748	9045	21-Dec-13	ALEX122113 (1).SSF	570489.647	31285
722061.045	4294158.747	9371	21-Dec-13	ALEX122113 (1).SSF	570490.729	31286
722061.047	4294158.749	9153	21-Dec-13	ALEX122113 (1).SSF	570491.637	31287
722061.038	4294158.746	8348	21-Dec-13	ALEX122113 (1).SSF	570492.746	31288
722061.03	4294158.746	8237	21-Dec-13	ALEX122113 (1).SSF	570493.5649	31289
722061.017	4294158.744	9199	21-Dec-13	ALEX122113 (1).SSF	570494.709	31290
722060.946	4294158.769	9049	21-Dec-13	ALEX122113 (1).SSF	570495.6021	31291
722060.887	4294158.79	8832	21-Dec-13	ALEX122113 (1).SSF	570496.634	31292
722060.851	4294158.802	9918	21-Dec-13	ALEX122113 (1).SSF	570497.608	31293
722060.767	4294158.827	9859	21-Dec-13	ALEX122113 (1).SSF	570498.717	31294
722060.751	4294158.83	9484	21-Dec-13	ALEX122113 (1).SSF	570499.5909	31295
722060.73	4294158.83	8671	21-Dec-13	ALEX122113 (1).SSF	570500.718	31296
722060.745	4294158.806	8197	21-Dec-13	ALEX122113 (1).SSF	570501.6021	31297
722060.777	4294158.784	9369	21-Dec-13	ALEX122113 (1).SSF	570502.698	31298
722060.744	4294158.795	10442	21-Dec-13	ALEX122113 (1).SSF	570503.58	31299
722060.675	4294158.817	9810	21-Dec-13	ALEX122113 (1).SSF	570504.739	31300
722060.74	4294158.787	8692	21-Dec-13	ALEX122113 (1).SSF	570505.64	31301
722060.798	4294158.748	8713	21-Dec-13	ALEX122113 (1).SSF	570506.694	31302
722060.815	4294158.735	8598	21-Dec-13	ALEX122113 (1).SSF	570507.627	31303
722060.802	4294158.729	8389	21-Dec-13	ALEX122113 (1).SSF	570508.7111	31304
722060.768	4294158.746	8457	21-Dec-13	ALEX122113 (1).SSF	570509.615	31305
722060.737	4294158.757	8354	21-Dec-13	ALEX122113 (1).SSF	570510.613	31306
722060.721	4294158.758	8688	21-Dec-13	ALEX122113 (1).SSF	570511.59	31307
722060.725	4294158.763	9012	21-Dec-13	ALEX122113 (1).SSF	570512.637	31308
722060.704	4294158.765	9273	21-Dec-13	ALEX122113 (1).SSF	570513.558	31309
722060.669	4294158.766	8768	21-Dec-13	ALEX122113 (1).SSF	570514.677	31310
722060.667	4294158.747	9542	21-Dec-13	ALEX122113 (1).SSF	570515.632	31311
722060.692	4294158.722	9495	21-Dec-13	ALEX122113 (1).SSF	570516.735	31312
722060.706	4294158.705	9333	21-Dec-13	ALEX122113 (1).SSF	570517.621	31313
722060.719	4294158.672	8873	21-Dec-13	ALEX122113 (1).SSF	570518.655	31314
722060.74	4294158.641	8338	21-Dec-13	ALEX122113 (1).SSF	570519.609	31315
722060.758	4294158.618	9194	21-Dec-13	ALEX122113 (1).SSF	570520.709	31316
722060.768	4294158.606	8898	21-Dec-13	ALEX122113 (1).SSF	570521.61	31317
722060.752	4294158.617	9394	21-Dec-13	ALEX122113 (1).SSF	570522.705	31318
722060.717	4294158.623	8798	21-Dec-13	ALEX122113 (1).SSF	570523.588	31319
722060.731	4294158.601	10089	21-Dec-13	ALEX122113 (1).SSF	570524.696	31320

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722060.74	4294158.601	9872	21-Dec-13	ALEX122113 (1).SSF	570525.635	31321
722060.745	4294158.624	9578	21-Dec-13	ALEX122113 (1).SSF	570526.697	31322
722060.738	4294158.629	9834	21-Dec-13	ALEX122113 (1).SSF	570527.624	31323
722060.728	4294158.636	8398	21-Dec-13	ALEX122113 (1).SSF	570528.725	31324
722060.717	4294158.651	8819	21-Dec-13	ALEX122113 (1).SSF	570529.671	31325
722060.69	4294158.662	8895	21-Dec-13	ALEX122113 (1).SSF	570530.78	31326
722060.663	4294158.666	8793	21-Dec-13	ALEX122113 (1).SSF	570531.699	31327
722060.66	4294158.653	9638	21-Dec-13	ALEX122113 (1).SSF	570532.688	31328
722060.676	4294158.636	9729	21-Dec-13	ALEX122113 (1).SSF	570533.62	31329
722060.695	4294158.624	9242	21-Dec-13	ALEX122113 (1).SSF	570534.733	31330
722060.697	4294158.625	9150	21-Dec-13	ALEX122113 (1).SSF	570535.6479	31331
722060.7	4294158.623	8407	21-Dec-13	ALEX122113 (1).SSF	570536.739	31332
722060.71	4294158.615	8672	21-Dec-13	ALEX122113 (1).SSF	570537.615	31333
722060.718	4294158.6	8738	21-Dec-13	ALEX122113 (1).SSF	570538.7159	31334
722060.738	4294158.582	8694	21-Dec-13	ALEX122113 (1).SSF	570539.616	31335
722060.77	4294158.573	8743	21-Dec-13	ALEX122113 (1).SSF	570540.7729	31336
722060.775	4294158.581	8992	21-Dec-13	ALEX122113 (1).SSF	570541.642	31337
722060.779	4294158.591	9119	21-Dec-13	ALEX122113 (1).SSF	570542.743	31338
722060.779	4294158.602	8609	21-Dec-13	ALEX122113 (1).SSF	570543.609	31339
722060.779	4294158.617	9832	21-Dec-13	ALEX122113 (1).SSF	570544.7469	31340
722060.794	4294158.626	9088	21-Dec-13	ALEX122113 (1).SSF	570545.668	31341
722060.799	4294158.638	8902	21-Dec-13	ALEX122113 (1).SSF	570546.7581	31342
722060.788	4294158.659	9095	21-Dec-13	ALEX122113 (1).SSF	570547.675	31343
722060.778	4294158.686	9323	21-Dec-13	ALEX122113 (1).SSF	570548.76	31344
722060.751	4294158.716	9861	21-Dec-13	ALEX122113 (1).SSF	570549.658	31345
722060.725	4294158.726	9335	21-Dec-13	ALEX122113 (1).SSF	570550.708	31346
722060.71	4294158.747	8903	21-Dec-13	ALEX122113 (1).SSF	570551.6331	31347
722060.699	4294158.779	8616	21-Dec-13	ALEX122113 (1).SSF	570552.6379	31348
722060.688	4294158.816	10074	21-Dec-13	ALEX122113 (1).SSF	570553.611	31349
722060.671	4294158.855	8638	21-Dec-13	ALEX122113 (1).SSF	570554.71	31350
722060.668	4294158.88	8669	21-Dec-13	ALEX122113 (1).SSF	570555.615	31351
722060.671	4294158.914	9097	21-Dec-13	ALEX122113 (1).SSF	570556.724	31352
722060.674	4294158.942	8964	21-Dec-13	ALEX122113 (1).SSF	570557.6071	31353
722060.663	4294158.97	8871	21-Dec-13	ALEX122113 (1).SSF	570558.689	31354
722060.687	4294158.975	9475	21-Dec-13	ALEX122113 (1).SSF	570559.635	31355
722060.72	4294158.965	8579	21-Dec-13	ALEX122113 (1).SSF	570560.701	31356
722060.727	4294158.964	10275	21-Dec-13	ALEX122113 (1).SSF	570561.609	31357
722060.732	4294158.925	9498	21-Dec-13	ALEX122113 (1).SSF	570562.6899	31358
722060.735	4294158.927	8644	21-Dec-13	ALEX122113 (1).SSF	570563.592	31359
722060.725	4294158.9	8971	21-Dec-13	ALEX122113 (1).SSF	570564.652	31360
722060.706	4294158.843	9322	21-Dec-13	ALEX122113 (1).SSF	570565.642	31361
722060.703	4294158.793	9530	21-Dec-13	ALEX122113 (1).SSF	570566.7419	31362
722060.695	4294158.769	9102	21-Dec-13	ALEX122113 (1).SSF	570567.6591	31363
722060.699	4294158.752	8215	21-Dec-13	ALEX122113 (1).SSF	570568.755	31364
722060.729	4294158.733	9614	21-Dec-13	ALEX122113 (1).SSF	570569.681	31365
722060.765	4294158.71	8913	21-Dec-13	ALEX122113 (1).SSF	570570.714	31366
722060.769	4294158.694	9578	21-Dec-13	ALEX122113 (1).SSF	570571.594	31367

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722060.766	4294158.675	8514	21-Dec-13	ALEX122113 (1).SSF	570572.624	31368
722060.769	4294158.655	8248	21-Dec-13	ALEX122113 (1).SSF	570573.6071	31369
722060.787	4294158.463	8182	21-Dec-13	ALEX122113 (1).SSF	570574.6479	31370
722060.709	4294158.272	8825	21-Dec-13	ALEX122113 (1).SSF	570575.579	31371
722060.644	4294158.126	8866	21-Dec-13	ALEX122113 (1).SSF	570576.757	31372
722060.729	4294158.06	10196	21-Dec-13	ALEX122113 (1).SSF	570577.606	31373
722060.863	4294158.045	9779	21-Dec-13	ALEX122113 (1).SSF	570578.681	31374
722060.986	4294158.221	10169	21-Dec-13	ALEX122113 (1).SSF	570579.631	31375
722061.129	4294158.554	9806	21-Dec-13	ALEX122113 (1).SSF	570580.73	31376
722061.196	4294158.789	9711	21-Dec-13	ALEX122113 (1).SSF	570581.576	31377
722061.285	4294159.025	9837	21-Dec-13	ALEX122113 (1).SSF	570582.636	31378
722061.349	4294159.087	8879	21-Dec-13	ALEX122113 (1).SSF	570583.582	31379
722061.341	4294158.998	9660	21-Dec-13	ALEX122113 (1).SSF	570584.644	31380
722061.226	4294158.84	9555	21-Dec-13	ALEX122113 (1).SSF	570585.6071	31381
722061.31	4294158.811	8778	21-Dec-13	ALEX122113 (1).SSF	570586.635	31382
722061.804	4294158.809	8764	21-Dec-13	ALEX122113 (1).SSF	570587.621	31383
722062.271	4294158.808	7621	21-Dec-13	ALEX122113 (1).SSF	570588.657	31384
722062.517	4294158.791	8655	21-Dec-13	ALEX122113 (1).SSF	570589.541	31385
722062.879	4294158.771	9813	21-Dec-13	ALEX122113 (1).SSF	570590.6541	31386
722063.166	4294158.862	9323	21-Dec-13	ALEX122113 (1).SSF	570591.5699	31387
722063.455	4294158.985	9441	21-Dec-13	ALEX122113 (1).SSF	570592.6639	31388
722063.642	4294159.096	10250	21-Dec-13	ALEX122113 (1).SSF	570593.542	31389
722063.527	4294159.282	10122	21-Dec-13	ALEX122113 (1).SSF	570594.589	31390
722062.957	4294159.054	9850	21-Dec-13	ALEX122113 (1).SSF	570595.65	31391
722062.476	4294158.675	8612	21-Dec-13	ALEX122113 (1).SSF	570596.724	31392
722062.312	4294158.584	8903	21-Dec-13	ALEX122113 (1).SSF	570597.652	31393
722062.507	4294159.026	8345	21-Dec-13	ALEX122113 (1).SSF	570598.6851	31394
722062.796	4294159.608	9796	21-Dec-13	ALEX122113 (1).SSF	570599.64	31395
722063.131	4294160.145	9049	21-Dec-13	ALEX122113 (1).SSF	570600.644	31396
722063.558	4294160.572	9732	21-Dec-13	ALEX122113 (1).SSF	570601.538	31397
722063.94	4294161.037	9663	21-Dec-13	ALEX122113 (1).SSF	570602.624	31398
722064.221	4294161.4	9675	21-Dec-13	ALEX122113 (1).SSF	570603.5439	31399
722064.917	4294161.781	9618	21-Dec-13	ALEX122113 (1).SSF	570604.611	31400
722065.57	4294162.217	8914	21-Dec-13	ALEX122113 (1).SSF	570605.54	31401
722066.091	4294162.844	8828	21-Dec-13	ALEX122113 (1).SSF	570606.647	31402
722066.426	4294163.285	9047	21-Dec-13	ALEX122113 (1).SSF	570607.595	31403
722066.718	4294163.631	8921	21-Dec-13	ALEX122113 (1).SSF	570608.5959	31404
722067.148	4294163.905	8380	21-Dec-13	ALEX122113 (1).SSF	570609.599	31405
722067.678	4294164.27	8935	21-Dec-13	ALEX122113 (1).SSF	570610.6331	31406
722068.028	4294164.664	9913	21-Dec-13	ALEX122113 (1).SSF	570611.5341	31407
722068.385	4294165.196	10218	21-Dec-13	ALEX122113 (1).SSF	570612.6591	31408
722068.507	4294165.543	9244	21-Dec-13	ALEX122113 (1).SSF	570613.598	31409
722068.628	4294165.782	9661	21-Dec-13	ALEX122113 (1).SSF	570614.626	31410
722068.893	4294165.979	10605	21-Dec-13	ALEX122113 (1).SSF	570615.563	31411
722069.111	4294166.363	10691	21-Dec-13	ALEX122113 (1).SSF	570616.62	31412
722069.298	4294166.83	9603	21-Dec-13	ALEX122113 (1).SSF	570617.561	31413
722069.593	4294167.408	9810	21-Dec-13	ALEX122113 (1).SSF	570618.61	31414

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722069.652	4294167.95	9772	21-Dec-13	ALEX122113 (1).SSF	570619.572	31415
722069.555	4294168.466	10483	21-Dec-13	ALEX122113 (1).SSF	570620.6801	31416
722069.502	4294168.979	10031	21-Dec-13	ALEX122113 (1).SSF	570621.621	31417
722069.726	4294169.685	9827	21-Dec-13	ALEX122113 (1).SSF	570622.673	31418
722070.333	4294170.292	9986	21-Dec-13	ALEX122113 (1).SSF	570623.657	31419
722070.781	4294170.89	10086	21-Dec-13	ALEX122113 (1).SSF	570624.728	31420
722070.987	4294171.368	9451	21-Dec-13	ALEX122113 (1).SSF	570625.5699	31421
722071.15	4294171.857	9532	21-Dec-13	ALEX122113 (1).SSF	570626.662	31422
722071.336	4294172.156	8623	21-Dec-13	ALEX122113 (1).SSF	570627.578	31423
722071.657	4294172.464	7886	21-Dec-13	ALEX122113 (1).SSF	570628.692	31424
722071.953	4294172.672	10071	21-Dec-13	ALEX122113 (1).SSF	570629.627	31425
722072.299	4294172.867	9897	21-Dec-13	ALEX122113 (1).SSF	570630.652	31426
722072.385	4294173.026	8714	21-Dec-13	ALEX122113 (1).SSF	570631.594	31427
722072.541	4294173.25	10068	21-Dec-13	ALEX122113 (1).SSF	570632.725	31428
722073.033	4294173.497	9597	21-Dec-13	ALEX122113 (1).SSF	570633.629	31429
722073.516	4294173.873	9269	21-Dec-13	ALEX122113 (1).SSF	570634.686	31430
722073.875	4294174.185	9067	21-Dec-13	ALEX122113 (1).SSF	570635.631	31431
722074.347	4294174.343	8626	21-Dec-13	ALEX122113 (1).SSF	570636.644	31432
722074.586	4294174.311	8546	21-Dec-13	ALEX122113 (1).SSF	570637.632	31433
722074.488	4294174.271	8556	21-Dec-13	ALEX122113 (1).SSF	570638.65	31434
722074.299	4294174.232	9249	21-Dec-13	ALEX122113 (1).SSF	570639.568	31435
722074.177	4294174.067	8912	21-Dec-13	ALEX122113 (1).SSF	570640.6801	31436
722074.245	4294173.828	8108	21-Dec-13	ALEX122113 (1).SSF	570641.5551	31437
722074.434	4294173.551	8747	21-Dec-13	ALEX122113 (1).SSF	570642.637	31438
722074.538	4294173.537	9116	21-Dec-13	ALEX122113 (1).SSF	570643.551	31439
722074.739	4294173.492	9599	21-Dec-13	ALEX122113 (1).SSF	570644.649	31440
722075.059	4294173.518	9150	21-Dec-13	ALEX122113 (1).SSF	570645.528	31441
722075.447	4294173.819	9547	21-Dec-13	ALEX122113 (1).SSF	570646.639	31442
722075.682	4294174.075	9196	21-Dec-13	ALEX122113 (1).SSF	570647.532	31443
722075.927	4294174.36	8179	21-Dec-13	ALEX122113 (1).SSF	570648.625	31444
722076.23	4294174.474	9274	21-Dec-13	ALEX122113 (1).SSF	570649.541	31445
722076.816	4294174.462	9488	21-Dec-13	ALEX122113 (1).SSF	570650.645	31446
722077.377	4294174.425	9272	21-Dec-13	ALEX122113 (1).SSF	570651.5959	31447
722077.876	4294174.47	9398	21-Dec-13	ALEX122113 (1).SSF	570652.623	31448
722078.227	4294174.624	9369	21-Dec-13	ALEX122113 (1).SSF	570653.55	31449
722078.868	4294174.966	8582	21-Dec-13	ALEX122113 (1).SSF	570654.645	31450
722079.596	4294175.324	8505	21-Dec-13	ALEX122113 (1).SSF	570655.545	31451
722080.653	4294175.723	10166	21-Dec-13	ALEX122113 (1).SSF	570656.722	31452
722081.327	4294175.923	10281	21-Dec-13	ALEX122113 (1).SSF	570657.592	31453
722082.061	4294176.1	10010	21-Dec-13	ALEX122113 (1).SSF	570658.618	31454
722082.803	4294176.135	9312	21-Dec-13	ALEX122113 (1).SSF	570659.536	31455
722083.59	4294176.243	9528	21-Dec-13	ALEX122113 (1).SSF	570660.637	31456
722083.975	4294176.583	9402	21-Dec-13	ALEX122113 (1).SSF	570661.553	31457
722084.495	4294176.992	9790	21-Dec-13	ALEX122113 (1).SSF	570662.636	31458
722085.156	4294177.157	9227	21-Dec-13	ALEX122113 (1).SSF	570663.564	31459
722085.891	4294177.286	9206	21-Dec-13	ALEX122113 (1).SSF	570664.606	31460
722086.479	4294177.442	8751	21-Dec-13	ALEX122113 (1).SSF	570665.55	31461

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722087.162	4294177.51	8098	21-Dec-13	ALEX122113 (1).SSF	570666.653	31462
722087.492	4294177.497	9014	21-Dec-13	ALEX122113 (1).SSF	570667.548	31463
722087.543	4294177.551	9123	21-Dec-13	ALEX122113 (1).SSF	570668.631	31464
722087.567	4294177.723	9810	21-Dec-13	ALEX122113 (1).SSF	570669.579	31465
722087.868	4294177.981	9142	21-Dec-13	ALEX122113 (1).SSF	570670.64	31466
722088.373	4294178.26	10295	21-Dec-13	ALEX122113 (1).SSF	570671.65	31467
722088.915	4294178.574	8874	21-Dec-13	ALEX122113 (1).SSF	570672.662	31468
722089.462	4294178.92	9898	21-Dec-13	ALEX122113 (1).SSF	570673.583	31469
722090.145	4294179.264	10964	21-Dec-13	ALEX122113 (1).SSF	570674.719	31470
722090.616	4294179.394	8621	21-Dec-13	ALEX122113 (1).SSF	570675.5811	31471
722091.025	4294179.507	9535	21-Dec-13	ALEX122113 (1).SSF	570676.714	31472
722091.304	4294179.629	9913	21-Dec-13	ALEX122113 (1).SSF	570677.582	31473
722091.874	4294179.854	10368	21-Dec-13	ALEX122113 (1).SSF	570678.687	31474
722092.324	4294180.016	9792	21-Dec-13	ALEX122113 (1).SSF	570679.626	31475
722092.692	4294180.062	9648	21-Dec-13	ALEX122113 (1).SSF	570680.627	31476
722093.024	4294180.084	8202	21-Dec-13	ALEX122113 (1).SSF	570681.505	31477
722093.411	4294180.231	8830	21-Dec-13	ALEX122113 (1).SSF	570682.624	31478
722093.603	4294180.401	9377	21-Dec-13	ALEX122113 (1).SSF	570683.6	31479
722093.746	4294180.458	10504	21-Dec-13	ALEX122113 (1).SSF	570684.625	31480
722093.84	4294180.551	10606	21-Dec-13	ALEX122113 (1).SSF	570685.542	31481
722093.753	4294180.607	9191	21-Dec-13	ALEX122113 (1).SSF	570686.651	31482
722093.625	4294180.516	8988	21-Dec-13	ALEX122113 (1).SSF	570687.5179	31483
722093.58	4294180.453	9177	21-Dec-13	ALEX122113 (1).SSF	570688.609	31484
722093.637	4294180.536	9524	21-Dec-13	ALEX122113 (1).SSF	570689.561	31485
722093.782	4294180.728	9371	21-Dec-13	ALEX122113 (1).SSF	570690.644	31486
722094.071	4294180.925	9632	21-Dec-13	ALEX122113 (1).SSF	570691.571	31487
722094.547	4294181.157	8408	21-Dec-13	ALEX122113 (1).SSF	570692.6331	31488
722094.993	4294181.318	8792	21-Dec-13	ALEX122113 (1).SSF	570693.554	31489
722095.732	4294181.576	9038	21-Dec-13	ALEX122113 (1).SSF	570694.663	31490
722096.454	4294181.876	10239	21-Dec-13	ALEX122113 (1).SSF	570695.545	31491
722097.22	4294182.441	9160	21-Dec-13	ALEX122113 (1).SSF	570696.641	31492
722097.7	4294182.924	9400	21-Dec-13	ALEX122113 (1).SSF	570697.564	31493
722098.199	4294183.315	9130	21-Dec-13	ALEX122113 (1).SSF	570698.67	31494
722098.54	4294183.539	9152	21-Dec-13	ALEX122113 (1).SSF	570699.588	31495
722098.98	4294183.808	9578	21-Dec-13	ALEX122113 (1).SSF	570700.645	31496
722099.493	4294184.184	9324	21-Dec-13	ALEX122113 (1).SSF	570701.571	31497
722100.116	4294184.625	9651	21-Dec-13	ALEX122113 (1).SSF	570702.588	31498
722100.626	4294184.979	10932	21-Dec-13	ALEX122113 (1).SSF	570703.501	31499
722101.077	4294185.41	10173	21-Dec-13	ALEX122113 (1).SSF	570704.6021	31500
722101.498	4294185.738	8603	21-Dec-13	ALEX122113 (1).SSF	570705.576	31501
722102.101	4294186.071	8600	21-Dec-13	ALEX122113 (1).SSF	570706.646	31502
722102.528	4294186.404	9920	21-Dec-13	ALEX122113 (1).SSF	570707.5601	31503
722102.989	4294186.849	8480	21-Dec-13	ALEX122113 (1).SSF	570708.692	31504
722103.524	4294187.319	9290	21-Dec-13	ALEX122113 (1).SSF	570709.63	31505
722104.118	4294187.85	8922	21-Dec-13	ALEX122113 (1).SSF	570710.653	31506
722104.589	4294188.253	8470	21-Dec-13	ALEX122113 (1).SSF	570711.569	31507
722105.058	4294188.781	9017	21-Dec-13	ALEX122113 (1).SSF	570712.682	31508

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722105.478	4294189.284	8824	21-Dec-13	ALEX122113 (1).SSF	570713.619	31509
722105.987	4294189.897	7606	21-Dec-13	ALEX122113 (1).SSF	570714.644	31510
722106.374	4294190.352	9791	21-Dec-13	ALEX122113 (1).SSF	570715.563	31511
722106.936	4294190.769	9078	21-Dec-13	ALEX122113 (1).SSF	570716.691	31512
722107.497	4294191.24	9469	21-Dec-13	ALEX122113 (1).SSF	570717.636	31513
722107.957	4294191.807	8667	21-Dec-13	ALEX122113 (1).SSF	570718.6281	31514
722108.353	4294192.303	9307	21-Dec-13	ALEX122113 (1).SSF	570719.562	31515
722108.929	4294192.91	8626	21-Dec-13	ALEX122113 (1).SSF	570720.675	31516
722109.47	4294193.428	8846	21-Dec-13	ALEX122113 (1).SSF	570721.6071	31517
722110.121	4294193.91	9441	21-Dec-13	ALEX122113 (1).SSF	570722.65	31518
722110.683	4294194.434	9530	21-Dec-13	ALEX122113 (1).SSF	570723.582	31519
722111.267	4294195.158	8442	21-Dec-13	ALEX122113 (1).SSF	570724.629	31520
722111.819	4294195.785	8320	21-Dec-13	ALEX122113 (1).SSF	570725.54	31521
722112.472	4294196.545	8080	21-Dec-13	ALEX122113 (1).SSF	570726.677	31522
722112.818	4294197.087	7420	21-Dec-13	ALEX122113 (1).SSF	570727.542	31523
722113.192	4294197.75	6505	21-Dec-13	ALEX122113 (1).SSF	570728.605	31524
722113.5	4294198.333	6966	21-Dec-13	ALEX122113 (1).SSF	570729.546	31525
722113.711	4294198.952	7531	21-Dec-13	ALEX122113 (1).SSF	570730.673	31526
722113.819	4294199.465	6592	21-Dec-13	ALEX122113 (1).SSF	570731.505	31527
722114.104	4294200.304	5802	21-Dec-13	ALEX122113 (1).SSF	570732.635	31528
722114.512	4294201.034	5686	21-Dec-13	ALEX122113 (1).SSF	570733.55	31529
722115.14	4294201.724	5741	21-Dec-13	ALEX122113 (1).SSF	570734.6169	31530
722115.838	4294202.294	5996	21-Dec-13	ALEX122113 (1).SSF	570735.578	31531
722116.596	4294202.967	5668	21-Dec-13	ALEX122113 (1).SSF	570736.653	31532
722117.173	4294203.576	5873	21-Dec-13	ALEX122113 (1).SSF	570737.579	31533
722117.732	4294204.255	5628	21-Dec-13	ALEX122113 (1).SSF	570738.644	31534
722118.192	4294204.758	6001	21-Dec-13	ALEX122113 (1).SSF	570739.516	31535
722118.729	4294205.417	6360	21-Dec-13	ALEX122113 (1).SSF	570740.674	31536
722118.788	4294205.996	6360	21-Dec-13	ALEX122113 (1).SSF	570741.5291	31537
722118.521	4294206.79	6510	21-Dec-13	ALEX122113 (1).SSF	570742.6379	31538
722118.388	4294207.236	6146	21-Dec-13	ALEX122113 (1).SSF	570743.595	31539
722118.37	4294207.362	6336	21-Dec-13	ALEX122113 (1).SSF	570744.66	31540
722118.267	4294207.331	6984	21-Dec-13	ALEX122113 (1).SSF	570745.548	31541
722118.165	4294207.285	7476	21-Dec-13	ALEX122113 (1).SSF	570746.613	31542
722118.195	4294207.269	7299	21-Dec-13	ALEX122113 (1).SSF	570747.474	31543
722118.24	4294207.244	6324	21-Dec-13	ALEX122113 (1).SSF	570748.599	31544
722118.093	4294207.154	6151	21-Dec-13	ALEX122113 (1).SSF	570749.557	31545
722117.649	4294207.081	7687	21-Dec-13	ALEX122113 (1).SSF	570750.6	31546
722117	4294207.22	7532	21-Dec-13	ALEX122113 (1).SSF	570751.618	31547
722116.315	4294207.497	5963	21-Dec-13	ALEX122113 (1).SSF	570752.6479	31548
722115.707	4294207.857	6976	21-Dec-13	ALEX122113 (1).SSF	570753.5861	31549
722115.084	4294208.379	6184	21-Dec-13	ALEX122113 (1).SSF	570754.673	31550
722114.644	4294208.751	5626	21-Dec-13	ALEX122113 (1).SSF	570755.542	31551
722114.046	4294209.271	6037	21-Dec-13	ALEX122113 (1).SSF	570756.588	31552
722113.641	4294209.696	6569	21-Dec-13	ALEX122113 (1).SSF	570757.4659	31553
722113.544	4294209.906	6442	21-Dec-13	ALEX122113 (1).SSF	570758.6219	31554
722113.645	4294209.911	6560	21-Dec-13	ALEX122113 (1).SSF	570759.4969	31555

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722113.79	4294209.936	5925	21-Dec-13	ALEX122113 (1).SSF	570760.6541	31556
722114.235	4294209.795	5830	21-Dec-13	ALEX122113 (1).SSF	570761.5861	31557
722115.099	4294209.317	5756	21-Dec-13	ALEX122113 (1).SSF	570762.62	31558
722115.8	4294208.763	6073	21-Dec-13	ALEX122113 (1).SSF	570763.567	31559
722116.507	4294208.223	5958	21-Dec-13	ALEX122113 (1).SSF	570764.62	31560
722117.137	4294208.027	5841	21-Dec-13	ALEX122113 (1).SSF	570765.542	31561
722117.806	4294208.338	6248	21-Dec-13	ALEX122113 (1).SSF	570766.6899	31562
722118.263	4294208.888	7082	21-Dec-13	ALEX122113 (1).SSF	570767.629	31563
722118.669	4294209.504	6990	21-Dec-13	ALEX122113 (1).SSF	570768.537	31564
722119.002	4294210.21	7755	21-Dec-13	ALEX122113 (1).SSF	570769.521	31565
722119.011	4294210.99	8169	21-Dec-13	ALEX122113 (1).SSF	570770.567	31566
722118.721	4294211.699	7952	21-Dec-13	ALEX122113 (1).SSF	570771.5439	31567
722118.35	4294212.429	7328	21-Dec-13	ALEX122113 (1).SSF	570772.616	31568
722117.981	4294213.04	8642	21-Dec-13	ALEX122113 (1).SSF	570773.481	31569
722117.429	4294213.855	8490	21-Dec-13	ALEX122113 (1).SSF	570774.627	31570
722117.058	4294214.383	7372	21-Dec-13	ALEX122113 (1).SSF	570775.556	31571
722116.596	4294214.942	7573	21-Dec-13	ALEX122113 (1).SSF	570776.546	31572
722116.118	4294215.567	7203	21-Dec-13	ALEX122113 (1).SSF	570777.504	31573
722115.768	4294216.164	7590	21-Dec-13	ALEX122113 (1).SSF	570778.5861	31574
722115.606	4294216.418	8107	21-Dec-13	ALEX122113 (1).SSF	570779.481	31575
722115.476	4294216.503	7577	21-Dec-13	ALEX122113 (1).SSF	570780.563	31576
722115.426	4294216.554	7744	21-Dec-13	ALEX122113 (1).SSF	570781.5601	31577
722115.435	4294216.616	6916	21-Dec-13	ALEX122113 (1).SSF	570782.614	31578
722115.47	4294216.659	7999	21-Dec-13	ALEX122113 (1).SSF	570783.494	31579
722115.513	4294216.722	7579	21-Dec-13	ALEX122113 (1).SSF	570784.618	31580
722115.476	4294216.755	7805	21-Dec-13	ALEX122113 (1).SSF	570785.296	31581
722115.209	4294216.877	6961	21-Dec-13	ALEX122113 (1).SSF	570786.291	31582
722114.725	4294217.226	7260	21-Dec-13	ALEX122113 (1).SSF	570787.202	31583
722114.172	4294217.829	6135	21-Dec-13	ALEX122113 (1).SSF	570788.338	31584
722113.795	4294218.25	7323	21-Dec-13	ALEX122113 (1).SSF	570789.319	31585
722113.186	4294218.681	7501	21-Dec-13	ALEX122113 (1).SSF	570790.609	31586
722112.723	4294219.091	7815	21-Dec-13	ALEX122113 (1).SSF	570791.52	31587
722112.126	4294219.598	7503	21-Dec-13	ALEX122113 (1).SSF	570792.568	31588
722111.581	4294220.065	8776	21-Dec-13	ALEX122113 (1).SSF	570793.5179	31589
722111.048	4294220.654	9394	21-Dec-13	ALEX122113 (1).SSF	570794.542	31590
722110.512	4294221.255	8408	21-Dec-13	ALEX122113 (1).SSF	570795.55	31591
722109.939	4294221.741	8102	21-Dec-13	ALEX122113 (1).SSF	570796.5341	31592
722109.457	4294222.174	8835	21-Dec-13	ALEX122113 (1).SSF	570797.478	31593
722108.985	4294222.817	9138	21-Dec-13	ALEX122113 (1).SSF	570798.54	31594
722108.518	4294223.491	9064	21-Dec-13	ALEX122113 (1).SSF	570799.515	31595
722107.951	4294224.154	9436	21-Dec-13	ALEX122113 (1).SSF	570800.592	31596
722107.461	4294224.649	9979	21-Dec-13	ALEX122113 (1).SSF	570801.531	31597
722106.955	4294225.085	10054	21-Dec-13	ALEX122113 (1).SSF	570802.562	31598
722106.493	4294225.501	8663	21-Dec-13	ALEX122113 (1).SSF	570803.528	31599
722106.166	4294226.071	9066	21-Dec-13	ALEX122113 (1).SSF	570804.564	31600
722105.957	4294226.577	9436	21-Dec-13	ALEX122113 (1).SSF	570805.4561	31601
722105.48	4294227.096	9559	21-Dec-13	ALEX122113 (1).SSF	570806.606	31602

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722104.952	4294227.425	9319	21-Dec-13	ALEX122113 (1).SSF	570807.46	31603
722104.133	4294227.97	9290	21-Dec-13	ALEX122113 (1).SSF	570808.608	31604
722103.534	4294228.421	10242	21-Dec-13	ALEX122113 (1).SSF	570809.473	31605
722102.841	4294228.953	10030	21-Dec-13	ALEX122113 (1).SSF	570810.671	31606
722102.486	4294229.313	9287	21-Dec-13	ALEX122113 (1).SSF	570811.5959	31607
722102.152	4294229.776	9761	21-Dec-13	ALEX122113 (1).SSF	570812.597	31608
722101.765	4294230.295	8380	21-Dec-13	ALEX122113 (1).SSF	570813.599	31609
722101.29	4294230.65	9985	21-Dec-13	ALEX122113 (1).SSF	570814.6071	31610
722100.855	4294230.823	8766	21-Dec-13	ALEX122113 (1).SSF	570815.5	31611
722100.394	4294231.1	8731	21-Dec-13	ALEX122113 (1).SSF	570816.527	31612
722099.931	4294231.511	9922	21-Dec-13	ALEX122113 (1).SSF	570817.53	31613
722099.44	4294231.926	9290	21-Dec-13	ALEX122113 (1).SSF	570818.561	31614
722099.04	4294232.29	9942	21-Dec-13	ALEX122113 (1).SSF	570819.432	31615
722098.584	4294232.882	8875	21-Dec-13	ALEX122113 (1).SSF	570820.619	31616
722098.165	4294233.291	9479	21-Dec-13	ALEX122113 (1).SSF	570821.576	31617
722097.558	4294233.528	9269	21-Dec-13	ALEX122113 (1).SSF	570822.615	31618
722096.994	4294233.824	9157	21-Dec-13	ALEX122113 (1).SSF	570823.58	31619
722096.504	4294234.34	9579	21-Dec-13	ALEX122113 (1).SSF	570824.6429	31620
722096.066	4294234.822	9744	21-Dec-13	ALEX122113 (1).SSF	570825.563	31621
722095.538	4294235.324	9426	21-Dec-13	ALEX122113 (1).SSF	570826.589	31622
722095.126	4294235.808	9286	21-Dec-13	ALEX122113 (1).SSF	570827.526	31623
722094.674	4294236.315	10121	21-Dec-13	ALEX122113 (1).SSF	570828.563	31624
722094.223	4294236.676	8290	21-Dec-13	ALEX122113 (1).SSF	570829.504	31625
722093.688	4294237.129	9542	21-Dec-13	ALEX122113 (1).SSF	570830.632	31626
722093.318	4294237.651	10125	21-Dec-13	ALEX122113 (1).SSF	570831.526	31627
722092.929	4294238.343	9521	21-Dec-13	ALEX122113 (1).SSF	570832.6331	31628
722092.54	4294238.854	9400	21-Dec-13	ALEX122113 (1).SSF	570833.567	31629
722091.983	4294239.381	9160	21-Dec-13	ALEX122113 (1).SSF	570834.575	31630
722091.461	4294239.903	9430	21-Dec-13	ALEX122113 (1).SSF	570835.4561	31631
722090.806	4294240.749	10247	21-Dec-13	ALEX122113 (1).SSF	570836.641	31632
722090.372	4294241.274	8411	21-Dec-13	ALEX122113 (1).SSF	570837.473	31633
722089.766	4294241.848	8883	21-Dec-13	ALEX122113 (1).SSF	570838.6429	31634
722089.351	4294242.268	9570	21-Dec-13	ALEX122113 (1).SSF	570839.4771	31635
722088.837	4294242.942	9712	21-Dec-13	ALEX122113 (1).SSF	570840.5811	31636
722088.384	4294243.539	8458	21-Dec-13	ALEX122113 (1).SSF	570841.496	31637
722087.744	4294244.187	9044	21-Dec-13	ALEX122113 (1).SSF	570842.598	31638
722087.164	4294244.633	9071	21-Dec-13	ALEX122113 (1).SSF	570843.543	31639
722086.589	4294245.085	8747	21-Dec-13	ALEX122113 (1).SSF	570844.552	31640
722086.125	4294245.596	9476	21-Dec-13	ALEX122113 (1).SSF	570845.5081	31641
722085.614	4294246.194	8879	21-Dec-13	ALEX122113 (1).SSF	570846.562	31642
722085.088	4294246.602	9120	21-Dec-13	ALEX122113 (1).SSF	570847.501	31643
722084.549	4294247.019	8970	21-Dec-13	ALEX122113 (1).SSF	570848.557	31644
722084.25	4294247.574	8992	21-Dec-13	ALEX122113 (1).SSF	570849.5081	31645
722083.98	4294248.257	9898	21-Dec-13	ALEX122113 (1).SSF	570850.558	31646
722083.582	4294248.729	9494	21-Dec-13	ALEX122113 (1).SSF	570851.525	31647
722083.108	4294249.159	8223	21-Dec-13	ALEX122113 (1).SSF	570852.603	31648
722082.754	4294249.567	10125	21-Dec-13	ALEX122113 (1).SSF	570853.472	31649

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722082.189	4294250.071	10241	21-Dec-13	ALEX122113 (1).SSF	570854.6021	31650
722081.679	4294250.414	7810	21-Dec-13	ALEX122113 (1).SSF	570855.467	31651
722080.99	4294250.821	7082	21-Dec-13	ALEX122113 (1).SSF	570856.54	31652
722080.371	4294251.107	6720	21-Dec-13	ALEX122113 (1).SSF	570857.4611	31653
722079.595	4294251.467	6120	21-Dec-13	ALEX122113 (1).SSF	570858.53	31654
722078.91	4294251.908	5835	21-Dec-13	ALEX122113 (1).SSF	570859.476	31655
722078.216	4294252.597	5734	21-Dec-13	ALEX122113 (1).SSF	570860.651	31656
722077.711	4294253.14	6038	21-Dec-13	ALEX122113 (1).SSF	570861.5081	31657
722076.974	4294253.771	6044	21-Dec-13	ALEX122113 (1).SSF	570862.6281	31658
722076.443	4294254.17	5882	21-Dec-13	ALEX122113 (1).SSF	570863.498	31659
722075.989	4294254.662	5333	21-Dec-13	ALEX122113 (1).SSF	570864.62	31660
722075.758	4294255.113	5580	21-Dec-13	ALEX122113 (1).SSF	570865.468	31661
722075.461	4294255.707	5786	21-Dec-13	ALEX122113 (1).SSF	570866.516	31662
722075.195	4294256.153	5422	21-Dec-13	ALEX122113 (1).SSF	570867.499	31663
722074.959	4294256.596	5720	21-Dec-13	ALEX122113 (1).SSF	570868.579	31664
722074.686	4294256.971	6172	21-Dec-13	ALEX122113 (1).SSF	570869.475	31665
722074.276	4294257.455	7513	21-Dec-13	ALEX122113 (1).SSF	570870.649	31666
722074.058	4294257.907	7248	21-Dec-13	ALEX122113 (1).SSF	570871.575	31667
722073.755	4294258.404	7362	21-Dec-13	ALEX122113 (1).SSF	570872.5811	31668
722073.365	4294258.85	8170	21-Dec-13	ALEX122113 (1).SSF	570873.527	31669
722072.873	4294259.434	9002	21-Dec-13	ALEX122113 (1).SSF	570874.636	31670
722072.429	4294259.998	9570	21-Dec-13	ALEX122113 (1).SSF	570875.554	31671
722071.948	4294260.623	8962	21-Dec-13	ALEX122113 (1).SSF	570876.6021	31672
722071.651	4294261.188	7850	21-Dec-13	ALEX122113 (1).SSF	570877.551	31673
722071.537	4294261.698	7812	21-Dec-13	ALEX122113 (1).SSF	570878.599	31674
722071.499	4294261.905	8193	21-Dec-13	ALEX122113 (1).SSF	570879.485	31675
722071.42	4294261.966	8018	21-Dec-13	ALEX122113 (1).SSF	570880.562	31676
722071.283	4294261.998	7884	21-Dec-13	ALEX122113 (1).SSF	570881.521	31677
722070.954	4294262.214	8811	21-Dec-13	ALEX122113 (1).SSF	570882.582	31678
722070.492	4294262.752	8412	21-Dec-13	ALEX122113 (1).SSF	570883.621	31679
722070.084	4294263.417	7863	21-Dec-13	ALEX122113 (1).SSF	570884.6169	31680
722069.671	4294263.984	8085	21-Dec-13	ALEX122113 (1).SSF	570885.552	31681
722069.126	4294264.609	8801	21-Dec-13	ALEX122113 (1).SSF	570886.6479	31682
722068.733	4294265.089	8290	21-Dec-13	ALEX122113 (1).SSF	570887.504	31683
722068.135	4294265.745	7922	21-Dec-13	ALEX122113 (1).SSF	570888.651	31684
722067.683	4294266.237	8400	21-Dec-13	ALEX122113 (1).SSF	570889.557	31685
722067.322	4294266.819	9480	21-Dec-13	ALEX122113 (1).SSF	570890.569	31686
722067.068	4294267.357	8340	21-Dec-13	ALEX122113 (1).SSF	570891.427	31687
722066.626	4294268.012	8925	21-Dec-13	ALEX122113 (1).SSF	570892.562	31688
722066.199	4294268.474	7961	21-Dec-13	ALEX122113 (1).SSF	570893.438	31689
722065.685	4294269.177	7720	21-Dec-13	ALEX122113 (1).SSF	570894.599	31690
722065.331	4294269.849	8590	21-Dec-13	ALEX122113 (1).SSF	570895.517	31691
722064.883	4294270.634	8537	21-Dec-13	ALEX122113 (1).SSF	570896.563	31692
722064.47	4294271.163	7654	21-Dec-13	ALEX122113 (1).SSF	570897.452	31693
722063.954	4294271.746	9263	21-Dec-13	ALEX122113 (1).SSF	570898.5291	31694
722063.542	4294272.314	8946	21-Dec-13	ALEX122113 (1).SSF	570899.476	31695
722063.041	4294272.973	9166	21-Dec-13	ALEX122113 (1).SSF	570900.6071	31696

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722062.663	4294273.429	10121	21-Dec-13	ALEX122113 (1).SSF	570901.3979	31697
722062.105	4294274.265	8890	21-Dec-13	ALEX122113 (1).SSF	570902.619	31698
722061.698	4294274.892	7922	21-Dec-13	ALEX122113 (1).SSF	570903.417	31699
722061.087	4294275.656	8760	21-Dec-13	ALEX122113 (1).SSF	570904.525	31700
722060.597	4294276.222	7830	21-Dec-13	ALEX122113 (1).SSF	570905.475	31701
722060.085	4294276.888	8377	21-Dec-13	ALEX122113 (1).SSF	570906.515	31702
722059.591	4294277.532	8724	21-Dec-13	ALEX122113 (1).SSF	570907.485	31703
722059.051	4294278.254	8391	21-Dec-13	ALEX122113 (1).SSF	570908.573	31704
722058.621	4294278.848	8337	21-Dec-13	ALEX122113 (1).SSF	570909.436	31705
722058.116	4294279.592	7934	21-Dec-13	ALEX122113 (1).SSF	570910.546	31706
722057.657	4294280.224	8163	21-Dec-13	ALEX122113 (1).SSF	570911.5601	31707
722057.169	4294280.888	9420	21-Dec-13	ALEX122113 (1).SSF	570912.616	31708
722056.786	4294281.506	8955	21-Dec-13	ALEX122113 (1).SSF	570913.553	31709
722056.328	4294282.187	8538	21-Dec-13	ALEX122113 (1).SSF	570914.563	31710
722055.868	4294282.768	9214	21-Dec-13	ALEX122113 (1).SSF	570915.463	31711
722055.247	4294283.508	9533	21-Dec-13	ALEX122113 (1).SSF	570916.561	31712
722054.74	4294284.15	9493	21-Dec-13	ALEX122113 (1).SSF	570917.469	31713
722054.159	4294284.898	9033	21-Dec-13	ALEX122113 (1).SSF	570918.598	31714
722053.64	4294285.526	8558	21-Dec-13	ALEX122113 (1).SSF	570919.506	31715
722053.123	4294286.24	8769	21-Dec-13	ALEX122113 (1).SSF	570920.5811	31716
722052.728	4294286.786	8312	21-Dec-13	ALEX122113 (1).SSF	570921.483	31717
722052.218	4294287.438	8228	21-Dec-13	ALEX122113 (1).SSF	570922.537	31718
722051.801	4294288.044	8297	21-Dec-13	ALEX122113 (1).SSF	570923.475	31719
722051.277	4294288.733	8524	21-Dec-13	ALEX122113 (1).SSF	570924.552	31720
722050.792	4294289.29	8671	21-Dec-13	ALEX122113 (1).SSF	570925.51	31721
722050.318	4294289.89	7777	21-Dec-13	ALEX122113 (1).SSF	570926.501	31722
722049.878	4294290.462	8664	21-Dec-13	ALEX122113 (1).SSF	570927.459	31723
722049.529	4294290.929	7866	21-Dec-13	ALEX122113 (1).SSF	570928.484	31724
722049.243	4294291.414	8386	21-Dec-13	ALEX122113 (1).SSF	570929.467	31725
722048.764	4294292.097	8756	21-Dec-13	ALEX122113 (1).SSF	570930.549	31726
722048.278	4294292.615	7829	21-Dec-13	ALEX122113 (1).SSF	570931.438	31727
722047.711	4294293.276	8767	21-Dec-13	ALEX122113 (1).SSF	570932.537	31728
722047.224	4294294.009	8161	21-Dec-13	ALEX122113 (1).SSF	570933.4919	31729
722046.691	4294294.781	7590	21-Dec-13	ALEX122113 (1).SSF	570934.506	31730
722046.192	4294295.424	7327	21-Dec-13	ALEX122113 (1).SSF	570935.472	31731
722045.723	4294296.148	8402	21-Dec-13	ALEX122113 (1).SSF	570936.498	31732
722045.277	4294296.872	7920	21-Dec-13	ALEX122113 (1).SSF	570937.425	31733
722044.742	4294297.594	8190	21-Dec-13	ALEX122113 (1).SSF	570938.515	31734
722044.3	4294298.145	7567	21-Dec-13	ALEX122113 (1).SSF	570939.473	31735
722043.694	4294298.863	7562	21-Dec-13	ALEX122113 (1).SSF	570940.59	31736
722043.314	4294299.373	7860	21-Dec-13	ALEX122113 (1).SSF	570941.468	31737
722042.972	4294300.094	7905	21-Dec-13	ALEX122113 (1).SSF	570942.554	31738
722042.622	4294300.822	7556	21-Dec-13	ALEX122113 (1).SSF	570943.486	31739
722042.156	4294301.494	7889	21-Dec-13	ALEX122113 (1).SSF	570944.576	31740
722041.679	4294302.055	8122	21-Dec-13	ALEX122113 (1).SSF	570945.469	31741
722041.025	4294302.847	8480	21-Dec-13	ALEX122113 (1).SSF	570946.531	31742
722040.519	4294303.489	9290	21-Dec-13	ALEX122113 (1).SSF	570947.5081	31743

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722040.135	4294304.162	7572	21-Dec-13	ALEX122113 (1).SSF	570948.583	31744
722039.86	4294304.782	8673	21-Dec-13	ALEX122113 (1).SSF	570949.49	31745
722039.451	4294305.444	8078	21-Dec-13	ALEX122113 (1).SSF	570950.491	31746
722038.954	4294306.06	8059	21-Dec-13	ALEX122113 (1).SSF	570951.4351	31747
722038.389	4294306.842	9182	21-Dec-13	ALEX122113 (1).SSF	570952.574	31748
722038.022	4294307.375	8955	21-Dec-13	ALEX122113 (1).SSF	570953.481	31749
722037.583	4294307.976	8568	21-Dec-13	ALEX122113 (1).SSF	570954.4871	31750
722037.133	4294308.659	7842	21-Dec-13	ALEX122113 (1).SSF	570955.436	31751
722036.614	4294309.363	7510	21-Dec-13	ALEX122113 (1).SSF	570956.547	31752
722036.175	4294309.865	8567	21-Dec-13	ALEX122113 (1).SSF	570957.474	31753
722035.721	4294310.519	9161	21-Dec-13	ALEX122113 (1).SSF	570958.4969	31754
722035.268	4294311.161	8470	21-Dec-13	ALEX122113 (1).SSF	570959.4659	31755
722034.662	4294311.794	8567	21-Dec-13	ALEX122113 (1).SSF	570960.551	31756
722034.133	4294312.284	8081	21-Dec-13	ALEX122113 (1).SSF	570961.556	31757
722033.722	4294312.866	8200	21-Dec-13	ALEX122113 (1).SSF	570962.569	31758
722033.378	4294313.521	8230	21-Dec-13	ALEX122113 (1).SSF	570963.489	31759
722032.93	4294314.242	8177	21-Dec-13	ALEX122113 (1).SSF	570964.537	31760
722032.47	4294314.852	8494	21-Dec-13	ALEX122113 (1).SSF	570965.446	31761
722031.956	4294315.654	8033	21-Dec-13	ALEX122113 (1).SSF	570966.538	31762
722031.548	4294316.424	7648	21-Dec-13	ALEX122113 (1).SSF	570967.4919	31763
722031.062	4294317.179	8962	21-Dec-13	ALEX122113 (1).SSF	570968.5179	31764
722030.519	4294317.79	8780	21-Dec-13	ALEX122113 (1).SSF	570969.453	31765
722029.916	4294318.493	8645	21-Dec-13	ALEX122113 (1).SSF	570970.533	31766
722029.52	4294319.114	8731	21-Dec-13	ALEX122113 (1).SSF	570971.469	31767
722029.019	4294319.847	7252	21-Dec-13	ALEX122113 (1).SSF	570972.535	31768
722028.451	4294320.464	7123	21-Dec-13	ALEX122113 (1).SSF	570973.4561	31769
722027.776	4294321.203	8951	21-Dec-13	ALEX122113 (1).SSF	570974.573	31770
722027.32	4294321.815	8447	21-Dec-13	ALEX122113 (1).SSF	570975.439	31771
722026.729	4294322.607	8171	21-Dec-13	ALEX122113 (1).SSF	570976.554	31772
722026.326	4294323.112	8823	21-Dec-13	ALEX122113 (1).SSF	570977.385	31773
722025.821	4294323.75	9255	21-Dec-13	ALEX122113 (1).SSF	570978.498	31774
722025.366	4294324.348	8343	21-Dec-13	ALEX122113 (1).SSF	570979.4351	31775
722024.78	4294325.044	9946	21-Dec-13	ALEX122113 (1).SSF	570980.538	31776
722024.265	4294325.639	8816	21-Dec-13	ALEX122113 (1).SSF	570981.475	31777
722023.709	4294326.403	8054	21-Dec-13	ALEX122113 (1).SSF	570982.5551	31778
722023.262	4294327.058	8853	21-Dec-13	ALEX122113 (1).SSF	570983.478	31779
722022.7	4294327.763	9923	21-Dec-13	ALEX122113 (1).SSF	570984.558	31780
722022.301	4294328.307	8600	21-Dec-13	ALEX122113 (1).SSF	570985.446	31781
722021.864	4294328.899	9080	21-Dec-13	ALEX122113 (1).SSF	570986.578	31782
722021.455	4294329.365	8960	21-Dec-13	ALEX122113 (1).SSF	570987.434	31783
722020.869	4294330.107	10340	21-Dec-13	ALEX122113 (1).SSF	570988.546	31784
722020.379	4294330.76	8885	21-Dec-13	ALEX122113 (1).SSF	570989.4709	31785
722019.775	4294331.456	8851	21-Dec-13	ALEX122113 (1).SSF	570990.536	31786
722019.291	4294332.01	8572	21-Dec-13	ALEX122113 (1).SSF	570991.447	31787
722018.826	4294332.796	8833	21-Dec-13	ALEX122113 (1).SSF	570992.53	31788
722018.442	4294333.52	9738	21-Dec-13	ALEX122113 (1).SSF	570993.486	31789
722017.904	4294334.213	8404	21-Dec-13	ALEX122113 (1).SSF	570994.5031	31790

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722017.405	4294334.808	7471	21-Dec-13	ALEX122113 (1).SSF	570995.421	31791
722016.982	4294335.579	8617	21-Dec-13	ALEX122113 (1).SSF	570996.52	31792
722016.583	4294336.365	10074	21-Dec-13	ALEX122113 (1).SSF	570997.49	31793
722016.144	4294337.049	9358	21-Dec-13	ALEX122113 (1).SSF	570998.5031	31794
722015.801	4294337.47	8819	21-Dec-13	ALEX122113 (1).SSF	570999.4139	31795
722015.269	4294337.933	9435	21-Dec-13	ALEX122113 (1).SSF	571000.517	31796
722014.676	4294338.508	10578	21-Dec-13	ALEX122113 (1).SSF	571001.521	31797
722014.149	4294339.291	9304	21-Dec-13	ALEX122113 (1).SSF	571002.532	31798
722013.699	4294340.062	9046	21-Dec-13	ALEX122113 (1).SSF	571003.437	31799
722013.117	4294340.89	9431	21-Dec-13	ALEX122113 (1).SSF	571004.507	31800
722012.629	4294341.571	9288	21-Dec-13	ALEX122113 (1).SSF	571005.436	31801
722012.003	4294342.42	9402	21-Dec-13	ALEX122113 (1).SSF	571006.595	31802
722011.552	4294342.893	9670	21-Dec-13	ALEX122113 (1).SSF	571007.447	31803
722011.023	4294343.531	8927	21-Dec-13	ALEX122113 (1).SSF	571008.516	31804
722010.527	4294344.294	10181	21-Dec-13	ALEX122113 (1).SSF	571009.4919	31805
722010.113	4294344.882	10555	21-Dec-13	ALEX122113 (1).SSF	571010.443	31806
722009.767	4294345.36	9539	21-Dec-13	ALEX122113 (1).SSF	571011.361	31807
722009.24	4294346.158	8354	21-Dec-13	ALEX122113 (1).SSF	571012.501	31808
722008.776	4294346.788	8418	21-Dec-13	ALEX122113 (1).SSF	571013.402	31809
722008.257	4294347.491	9124	21-Dec-13	ALEX122113 (1).SSF	571014.4351	31810
722007.744	4294348.212	9121	21-Dec-13	ALEX122113 (1).SSF	571015.439	31811
722007.173	4294348.93	9510	21-Dec-13	ALEX122113 (1).SSF	571016.562	31812
722006.684	4294349.523	9097	21-Dec-13	ALEX122113 (1).SSF	571017.479	31813
722006.132	4294350.237	8394	21-Dec-13	ALEX122113 (1).SSF	571018.577	31814
722005.722	4294350.787	8968	21-Dec-13	ALEX122113 (1).SSF	571019.49	31815
722005.237	4294351.466	9562	21-Dec-13	ALEX122113 (1).SSF	571020.54	31816
722004.841	4294352.161	8810	21-Dec-13	ALEX122113 (1).SSF	571021.496	31817
722004.351	4294352.957	9432	21-Dec-13	ALEX122113 (1).SSF	571022.59	31818
722003.867	4294353.433	7758	21-Dec-13	ALEX122113 (1).SSF	571023.4399	31819
722003.253	4294353.927	7789	21-Dec-13	ALEX122113 (1).SSF	571024.526	31820
722002.838	4294354.464	7917	21-Dec-13	ALEX122113 (1).SSF	571025.428	31821
722002.419	4294355.216	10259	21-Dec-13	ALEX122113 (1).SSF	571026.545	31822
722002.013	4294355.704	8445	21-Dec-13	ALEX122113 (1).SSF	571027.5179	31823
722001.558	4294356.089	9311	21-Dec-13	ALEX122113 (1).SSF	571028.545	31824
722001.255	4294356.532	8207	21-Dec-13	ALEX122113 (1).SSF	571029.465	31825
722000.933	4294357.209	8801	21-Dec-13	ALEX122113 (1).SSF	571030.5389	31826
722000.593	4294357.701	8320	21-Dec-13	ALEX122113 (1).SSF	571031.381	31827
721999.977	4294358.267	7990	21-Dec-13	ALEX122113 (1).SSF	571032.507	31828
721999.503	4294358.822	9197	21-Dec-13	ALEX122113 (1).SSF	571033.4139	31829
721999.126	4294359.609	8899	21-Dec-13	ALEX122113 (1).SSF	571034.5229	31830
721998.779	4294360.174	7834	21-Dec-13	ALEX122113 (1).SSF	571035.426	31831
721998.344	4294360.663	8138	21-Dec-13	ALEX122113 (1).SSF	571036.441	31832
721998.036	4294360.875	7824	21-Dec-13	ALEX122113 (1).SSF	571037.38	31833
721997.852	4294360.847	7026	21-Dec-13	ALEX122113 (1).SSF	571038.526	31834
721997.819	4294360.579	8296	21-Dec-13	ALEX122113 (1).SSF	571039.446	31835
721997.641	4294360.088	7174	21-Dec-13	ALEX122113 (1).SSF	571040.516	31836
721997.443	4294359.836	7613	21-Dec-13	ALEX122113 (1).SSF	571041.432	31837

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721997.39	4294359.821	6943	21-Dec-13	ALEX122113 (1).SSF	571042.531	31838
721997.409	4294359.907	6023	21-Dec-13	ALEX122113 (1).SSF	571043.5139	31839
721997.414	4294359.907	6338	21-Dec-13	ALEX122113 (1).SSF	571044.5291	31840
721997.418	4294359.873	7404	21-Dec-13	ALEX122113 (1).SSF	571045.418	31841
721997.36	4294359.845	7401	21-Dec-13	ALEX122113 (1).SSF	571046.541	31842
721997.273	4294359.813	6740	21-Dec-13	ALEX122113 (1).SSF	571047.447	31843
721997.19	4294359.81	7115	21-Dec-13	ALEX122113 (1).SSF	571048.5759	31844
721997.102	4294359.819	7628	21-Dec-13	ALEX122113 (1).SSF	571049.417	31845
721996.988	4294359.808	7007	21-Dec-13	ALEX122113 (1).SSF	571050.575	31846
721996.917	4294359.775	6881	21-Dec-13	ALEX122113 (1).SSF	571051.4951	31847
721996.751	4294359.736	7150	21-Dec-13	ALEX122113 (1).SSF	571052.572	31848
721996.631	4294359.737	7787	21-Dec-13	ALEX122113 (1).SSF	571053.6279	31849
721996.561	4294359.727	7376	21-Dec-13	ALEX122113 (1).SSF	571054.5049	31850
721996.526	4294359.729	8174	21-Dec-13	ALEX122113 (1).SSF	571055.4541	31851
721996.598	4294359.767	6843	21-Dec-13	ALEX122113 (1).SSF	571056.5171	31852
721996.705	4294359.812	7950	21-Dec-13	ALEX122113 (1).SSF	571057.4431	31853
721996.814	4294359.876	7537	21-Dec-13	ALEX122113 (1).SSF	571058.5659	31854
721996.857	4294359.909	7434	21-Dec-13	ALEX122113 (1).SSF	571059.4441	31855
721996.814	4294359.897	7078	21-Dec-13	ALEX122113 (1).SSF	571060.561	31856
721996.76	4294359.897	7739	21-Dec-13	ALEX122113 (1).SSF	571061.3999	31857
721996.763	4294359.962	8025	21-Dec-13	ALEX122113 (1).SSF	571062.5439	31858
721996.779	4294360.011	7886	21-Dec-13	ALEX122113 (1).SSF	571063.4451	31859
721996.825	4294360.06	6381	21-Dec-13	ALEX122113 (1).SSF	571064.5559	31860
721996.892	4294360.093	7235	21-Dec-13	ALEX122113 (1).SSF	571065.376	31861
721996.962	4294360.081	7208	21-Dec-13	ALEX122113 (1).SSF	571066.499	31862
721996.97	4294360.067	7022	21-Dec-13	ALEX122113 (1).SSF	571067.4309	31863
721997.015	4294360.057	8115	21-Dec-13	ALEX122113 (1).SSF	571068.469	31864
721997.126	4294359.994	8358	21-Dec-13	ALEX122113 (1).SSF	571069.4351	31865
721997.264	4294359.967	7819	21-Dec-13	ALEX122113 (1).SSF	571070.53	31866
721997.325	4294359.952	7595	21-Dec-13	ALEX122113 (1).SSF	571071.4221	31867
721997.329	4294359.939	8588	21-Dec-13	ALEX122113 (1).SSF	571072.572	31868
721997.331	4294359.952	7847	21-Dec-13	ALEX122113 (1).SSF	571073.5061	31869
721997.294	4294359.995	7241	21-Dec-13	ALEX122113 (1).SSF	571074.5371	31870
721997.271	4294360.107	8200	21-Dec-13	ALEX122113 (1).SSF	571075.4299	31871
721997.271	4294360.179	7510	21-Dec-13	ALEX122113 (1).SSF	571076.533	31872
721997.26	4294360.093	7487	21-Dec-13	ALEX122113 (1).SSF	571077.4309	31873
721997.27	4294359.996	7781	21-Dec-13	ALEX122113 (1).SSF	571078.54	31874
721997.269	4294359.993	7315	21-Dec-13	ALEX122113 (1).SSF	571079.4309	31875
721997.282	4294360.03	7439	21-Dec-13	ALEX122113 (1).SSF	571080.531	31876
721997.313	4294360.063	7019	21-Dec-13	ALEX122113 (1).SSF	571081.446	31877
721997.311	4294360.018	8265	21-Dec-13	ALEX122113 (1).SSF	571082.5039	31878
721997.292	4294359.928	7526	21-Dec-13	ALEX122113 (1).SSF	571083.4141	31879
721997.26	4294359.891	7551	21-Dec-13	ALEX122113 (1).SSF	571084.561	31880
721997.216	4294359.881	7437	21-Dec-13	ALEX122113 (1).SSF	571085.3391	31881
721997.196	4294359.818	7169	21-Dec-13	ALEX122113 (1).SSF	571086.5	31882
721997.221	4294359.778	7372	21-Dec-13	ALEX122113 (1).SSF	571087.355	31883
721997.265	4294359.751	7993	21-Dec-13	ALEX122113 (1).SSF	571088.4189	31884

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721997.276	4294359.72	7758	21-Dec-13	ALEX122113 (1).SSF	571089.3911	31885
721997.274	4294359.679	6619	21-Dec-13	ALEX122113 (1).SSF	571090.54	31886
721997.272	4294359.667	6514	21-Dec-13	ALEX122113 (1).SSF	571091.4541	31887
721997.253	4294359.696	7748	21-Dec-13	ALEX122113 (1).SSF	571092.489	31888
721997.273	4294359.726	7157	21-Dec-13	ALEX122113 (1).SSF	571093.3931	31889
721997.48	4294359.817	7249	21-Dec-13	ALEX122113 (1).SSF	571094.5029	31890
721997.837	4294359.981	7212	21-Dec-13	ALEX122113 (1).SSF	571095.3821	31891
721998.259	4294360.098	7263	21-Dec-13	ALEX122113 (1).SSF	571096.5039	31892
721998.427	4294360.103	7605	21-Dec-13	ALEX122113 (1).SSF	571097.426	31893
721998.656	4294359.965	7751	21-Dec-13	ALEX122113 (1).SSF	571098.46	31894
721999.033	4294359.527	8118	21-Dec-13	ALEX122113 (1).SSF	571099.3811	31895
721999.686	4294358.676	8749	21-Dec-13	ALEX122113 (1).SSF	571100.4609	31896
722000.344	4294357.894	8427	21-Dec-13	ALEX122113 (1).SSF	571101.467	31897
722000.927	4294357.091	8437	21-Dec-13	ALEX122113 (1).SSF	571102.5291	31898
722001.257	4294356.366	9069	21-Dec-13	ALEX122113 (1).SSF	571103.468	31899
722001.507	4294355.753	8717	21-Dec-13	ALEX122113 (1).SSF	571104.4709	31900
722001.865	4294355.208	8269	21-Dec-13	ALEX122113 (1).SSF	571105.4299	31901
722002.275	4294354.565	10047	21-Dec-13	ALEX122113 (1).SSF	571106.4751	31902
722002.499	4294354.098	10702	21-Dec-13	ALEX122113 (1).SSF	571107.458	31903
722002.67	4294353.901	10085	21-Dec-13	ALEX122113 (1).SSF	571108.4741	31904
722003.033	4294353.794	9271	21-Dec-13	ALEX122113 (1).SSF	571109.4399	31905
722003.641	4294353.579	8257	21-Dec-13	ALEX122113 (1).SSF	571110.4709	31906
722004.087	4294353.374	8064	21-Dec-13	ALEX122113 (1).SSF	571111.4009	31907
722004.114	4294353.15	8196	21-Dec-13	ALEX122113 (1).SSF	571112.4189	31908
722003.958	4294352.97	7419	21-Dec-13	ALEX122113 (1).SSF	571113.343	31909
722003.9	4294352.926	8154	21-Dec-13	ALEX122113 (1).SSF	571114.4221	31910
722003.896	4294352.936	8728	21-Dec-13	ALEX122113 (1).SSF	571115.3411	31911
722003.906	4294352.988	8872	21-Dec-13	ALEX122113 (1).SSF	571116.426	31912
722004.074	4294353.011	8968	21-Dec-13	ALEX122113 (1).SSF	571117.366	31913
722004.409	4294352.847	7942	21-Dec-13	ALEX122113 (1).SSF	571118.49	31914
722004.709	4294352.5	8075	21-Dec-13	ALEX122113 (1).SSF	571119.3269	31915
722005.345	4294351.7	7988	21-Dec-13	ALEX122113 (1).SSF	571120.5769	31916
722005.787	4294350.989	8237	21-Dec-13	ALEX122113 (1).SSF	571121.5049	31917
722006.271	4294350.061	9679	21-Dec-13	ALEX122113 (1).SSF	571122.583	31918
722006.614	4294349.374	9109	21-Dec-13	ALEX122113 (1).SSF	571123.4641	31919
722007.059	4294348.536	9837	21-Dec-13	ALEX122113 (1).SSF	571124.5811	31920
722007.362	4294347.984	8909	21-Dec-13	ALEX122113 (1).SSF	571125.342	31921
722007.665	4294347.421	9397	21-Dec-13	ALEX122113 (1).SSF	571126.478	31922
722007.874	4294347.023	8829	21-Dec-13	ALEX122113 (1).SSF	571127.386	31923
722008.081	4294346.368	8657	21-Dec-13	ALEX122113 (1).SSF	571128.4961	31924
722008.144	4294345.895	9064	21-Dec-13	ALEX122113 (1).SSF	571129.365	31925
722008.165	4294345.408	9886	21-Dec-13	ALEX122113 (1).SSF	571130.5339	31926
722008.193	4294345.113	9641	21-Dec-13	ALEX122113 (1).SSF	571131.4709	31927
722008.418	4294344.966	8680	21-Dec-13	ALEX122113 (1).SSF	571132.5071	31928
722008.547	4294344.88	9580	21-Dec-13	ALEX122113 (1).SSF	571133.45	31929
722008.494	4294344.69	9205	21-Dec-13	ALEX122113 (1).SSF	571134.4709	31930
722008.433	4294344.611	8991	21-Dec-13	ALEX122113 (1).SSF	571135.449	31931

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722008.436	4294344.636	9777	21-Dec-13	ALEX122113 (1).SSF	571136.5371	31932
722008.413	4294344.662	8414	21-Dec-13	ALEX122113 (1).SSF	571137.447	31933
722008.353	4294344.67	9363	21-Dec-13	ALEX122113 (1).SSF	571138.4629	31934
722008.254	4294344.613	9750	21-Dec-13	ALEX122113 (1).SSF	571139.4241	31935
722008.037	4294344.54	8707	21-Dec-13	ALEX122113 (1).SSF	571140.551	31936
722007.852	4294344.572	8417	21-Dec-13	ALEX122113 (1).SSF	571141.3799	31937
722007.607	4294344.637	9244	21-Dec-13	ALEX122113 (1).SSF	571142.499	31938
722007.498	4294344.624	9601	21-Dec-13	ALEX122113 (1).SSF	571143.3979	31939
722007.503	4294344.639	10500	21-Dec-13	ALEX122113 (1).SSF	571144.481	31940
722007.473	4294344.625	9765	21-Dec-13	ALEX122113 (1).SSF	571145.4419	31941
722007.316	4294344.459	9371	21-Dec-13	ALEX122113 (1).SSF	571146.4729	31942
722007.297	4294344.353	10353	21-Dec-13	ALEX122113 (1).SSF	571147.3931	31943
722007.815	4294344.399	9548	21-Dec-13	ALEX122113 (1).SSF	571148.5569	31944
722008.327	4294344.449	9167	21-Dec-13	ALEX122113 (1).SSF	571149.386	31945
722008.985	4294344.434	10841	21-Dec-13	ALEX122113 (1).SSF	571150.448	31946
722009.565	4294344.436	9940	21-Dec-13	ALEX122113 (1).SSF	571151.3689	31947
722010.229	4294344.376	9205	21-Dec-13	ALEX122113 (1).SSF	571152.531	31948
722010.719	4294343.934	9621	21-Dec-13	ALEX122113 (1).SSF	571153.428	31949
722011.315	4294343.033	10565	21-Dec-13	ALEX122113 (1).SSF	571154.501	31950
722011.873	4294342.113	9301	21-Dec-13	ALEX122113 (1).SSF	571155.438	31951
722012.392	4294341.186	8865	21-Dec-13	ALEX122113 (1).SSF	571156.459	31952
722012.791	4294340.339	9356	21-Dec-13	ALEX122113 (1).SSF	571157.3611	31953
722013.38	4294339.326	9299	21-Dec-13	ALEX122113 (1).SSF	571158.4839	31954
722013.833	4294338.749	9465	21-Dec-13	ALEX122113 (1).SSF	571159.3721	31955
722014.42	4294338.031	9116	21-Dec-13	ALEX122113 (1).SSF	571160.437	31956
722014.886	4294337.446	8159	21-Dec-13	ALEX122113 (1).SSF	571161.356	31957
722015.479	4294336.736	8579	21-Dec-13	ALEX122113 (1).SSF	571162.439	31958
722016.074	4294336.013	10455	21-Dec-13	ALEX122113 (1).SSF	571163.3711	31959
722016.613	4294335.364	9213	21-Dec-13	ALEX122113 (1).SSF	571164.385	31960
722017.227	4294334.653	9353	21-Dec-13	ALEX122113 (1).SSF	571165.343	31961
722017.914	4294333.587	10048	21-Dec-13	ALEX122113 (1).SSF	571166.4661	31962
722018.29	4294332.904	9592	21-Dec-13	ALEX122113 (1).SSF	571167.405	31963
722018.797	4294332.281	10708	21-Dec-13	ALEX122113 (1).SSF	571168.4419	31964
722019.307	4294331.683	9517	21-Dec-13	ALEX122113 (1).SSF	571169.407	31965
722020.009	4294330.928	8709	21-Dec-13	ALEX122113 (1).SSF	571170.4851	31966
722020.552	4294330.271	9287	21-Dec-13	ALEX122113 (1).SSF	571171.426	31967
722021.042	4294329.566	8261	21-Dec-13	ALEX122113 (1).SSF	571172.4609	31968
722021.611	4294328.91	9445	21-Dec-13	ALEX122113 (1).SSF	571173.4209	31969
722022.292	4294328.16	9471	21-Dec-13	ALEX122113 (1).SSF	571174.4939	31970
722022.816	4294327.441	8697	21-Dec-13	ALEX122113 (1).SSF	571175.4299	31971
722023.412	4294326.673	9854	21-Dec-13	ALEX122113 (1).SSF	571176.489	31972
722024.003	4294326.008	9573	21-Dec-13	ALEX122113 (1).SSF	571177.4351	31973
722024.593	4294325.244	8783	21-Dec-13	ALEX122113 (1).SSF	571178.5039	31974
722025.01	4294324.684	8705	21-Dec-13	ALEX122113 (1).SSF	571179.3921	31975
722025.447	4294323.993	8866	21-Dec-13	ALEX122113 (1).SSF	571180.4221	31976
722025.825	4294323.25	10076	21-Dec-13	ALEX122113 (1).SSF	571181.355	31977
722026.327	4294322.452	9299	21-Dec-13	ALEX122113 (1).SSF	571182.3931	31978

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722026.816	4294321.81	10035	21-Dec-13	ALEX122113 (1).SSF	571183.3081	31979
722027.23	4294321.208	10158	21-Dec-13	ALEX122113 (1).SSF	571184.4221	31980
722027.524	4294320.832	8539	21-Dec-13	ALEX122113 (1).SSF	571185.3391	31981
722027.953	4294320.263	8884	21-Dec-13	ALEX122113 (1).SSF	571186.4551	31982
722028.312	4294319.666	9511	21-Dec-13	ALEX122113 (1).SSF	571187.364	31983
722028.781	4294318.87	7267	21-Dec-13	ALEX122113 (1).SSF	571188.447	31984
722029.227	4294318.201	7637	21-Dec-13	ALEX122113 (1).SSF	571189.396	31985
722029.65	4294317.522	9139	21-Dec-13	ALEX122113 (1).SSF	571190.415	31986
722030.116	4294316.77	8734	21-Dec-13	ALEX122113 (1).SSF	571191.4209	31987
722030.698	4294316.071	9383	21-Dec-13	ALEX122113 (1).SSF	571192.425	31988
722031.199	4294315.484	8916	21-Dec-13	ALEX122113 (1).SSF	571193.3711	31989
722031.713	4294314.774	8499	21-Dec-13	ALEX122113 (1).SSF	571194.429	31990
722032.358	4294313.977	9474	21-Dec-13	ALEX122113 (1).SSF	571195.4561	31991
722032.876	4294313.287	8008	21-Dec-13	ALEX122113 (1).SSF	571196.4529	31992
722033.265	4294312.691	10012	21-Dec-13	ALEX122113 (1).SSF	571197.3779	31993
722033.64	4294312.061	9673	21-Dec-13	ALEX122113 (1).SSF	571198.5129	31994
722033.97	4294311.559	9828	21-Dec-13	ALEX122113 (1).SSF	571199.45	31995
722034.333	4294311.024	9927	21-Dec-13	ALEX122113 (1).SSF	571200.4209	31996
722034.73	4294310.473	9231	21-Dec-13	ALEX122113 (1).SSF	571201.416	31997
722035.258	4294309.824	9268	21-Dec-13	ALEX122113 (1).SSF	571202.3979	31998
722035.921	4294309.065	8677	21-Dec-13	ALEX122113 (1).SSF	571203.406	31999
722036.586	4294308.248	8229	21-Dec-13	ALEX122113 (1).SSF	571204.4241	32000
722037.048	4294307.6	7967	21-Dec-13	ALEX122113 (1).SSF	571205.3359	32001
722037.476	4294307.083	8501	21-Dec-13	ALEX122113 (1).SSF	571206.48	32002
722037.905	4294306.59	9895	21-Dec-13	ALEX122113 (1).SSF	571207.375	32003
722038.404	4294305.872	9344	21-Dec-13	ALEX122113 (1).SSF	571208.3989	32004
722038.752	4294305.364	9716	21-Dec-13	ALEX122113 (1).SSF	571209.4199	32005
722038.852	4294305.138	8939	21-Dec-13	ALEX122113 (1).SSF	571210.4509	32006
722038.795	4294305.017	7994	21-Dec-13	ALEX122113 (1).SSF	571211.4009	32007
722038.736	4294304.959	8928	21-Dec-13	ALEX122113 (1).SSF	571212.458	32008
722038.832	4294304.893	8562	21-Dec-13	ALEX122113 (1).SSF	571213.375	32009
722039.045	4294304.757	9130	21-Dec-13	ALEX122113 (1).SSF	571214.47	32010
722039.193	4294304.637	10292	21-Dec-13	ALEX122113 (1).SSF	571215.325	32011
722039.303	4294304.522	8693	21-Dec-13	ALEX122113 (1).SSF	571216.416	32012
722039.307	4294304.508	7933	21-Dec-13	ALEX122113 (1).SSF	571217.3101	32013
722039.187	4294304.576	8373	21-Dec-13	ALEX122113 (1).SSF	571218.363	32014
722039.121	4294304.591	8963	21-Dec-13	ALEX122113 (1).SSF	571219.27	32015
722039.054	4294304.626	8840	21-Dec-13	ALEX122113 (1).SSF	571220.4829	32016
722039.113	4294304.658	8780	21-Dec-13	ALEX122113 (1).SSF	571221.4121	32017
722039.302	4294304.626	9605	21-Dec-13	ALEX122113 (1).SSF	571222.446	32018
722039.409	4294304.487	9511	21-Dec-13	ALEX122113 (1).SSF	571223.365	32019
722039.638	4294304.164	8167	21-Dec-13	ALEX122113 (1).SSF	571224.4819	32020
722039.905	4294303.798	8882	21-Dec-13	ALEX122113 (1).SSF	571225.325	32021
722040.307	4294303.152	9420	21-Dec-13	ALEX122113 (1).SSF	571226.394	32022
722040.665	4294302.699	8625	21-Dec-13	ALEX122113 (1).SSF	571227.3721	32023
722041.135	4294302.125	8336	21-Dec-13	ALEX122113 (1).SSF	571228.4641	32024
722041.528	4294301.505	8384	21-Dec-13	ALEX122113 (1).SSF	571229.386	32025

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722041.935	4294300.783	9116	21-Dec-13	ALEX122113 (1).SSF	571230.468	32026
722042.23	4294300.235	8129	21-Dec-13	ALEX122113 (1).SSF	571231.4431	32027
722042.62	4294299.535	7582	21-Dec-13	ALEX122113 (1).SSF	571232.532	32028
722042.958	4294299.062	8105	21-Dec-13	ALEX122113 (1).SSF	571233.427	32029
722043.265	4294298.65	8236	21-Dec-13	ALEX122113 (1).SSF	571234.46	32030
722043.551	4294298.189	8629	21-Dec-13	ALEX122113 (1).SSF	571235.3579	32031
722044.004	4294297.531	8037	21-Dec-13	ALEX122113 (1).SSF	571236.439	32032
722044.43	4294297.007	7709	21-Dec-13	ALEX122113 (1).SSF	571237.335	32033
722044.828	4294296.557	9337	21-Dec-13	ALEX122113 (1).SSF	571238.428	32034
722045.12	4294296.094	9294	21-Dec-13	ALEX122113 (1).SSF	571239.4121	32035
722045.514	4294295.501	9013	21-Dec-13	ALEX122113 (1).SSF	571240.5081	32036
722045.972	4294294.943	8283	21-Dec-13	ALEX122113 (1).SSF	571241.4189	32037
722046.612	4294294.094	8130	21-Dec-13	ALEX122113 (1).SSF	571242.467	32038
722047.178	4294293.396	8692	21-Dec-13	ALEX122113 (1).SSF	571243.429	32039
722047.789	4294292.738	8803	21-Dec-13	ALEX122113 (1).SSF	571244.4709	32040
722048.338	4294292.025	9371	21-Dec-13	ALEX122113 (1).SSF	571245.3679	32041
722048.964	4294291.216	8792	21-Dec-13	ALEX122113 (1).SSF	571246.4629	32042
722049.332	4294290.778	8738	21-Dec-13	ALEX122113 (1).SSF	571247.3081	32043
722049.887	4294290.043	9354	21-Dec-13	ALEX122113 (1).SSF	571248.416	32044
722050.461	4294289.3	8728	21-Dec-13	ALEX122113 (1).SSF	571249.3931	32045
722050.895	4294288.746	9892	21-Dec-13	ALEX122113 (1).SSF	571250.4351	32046
722051.327	4294288.204	9043	21-Dec-13	ALEX122113 (1).SSF	571251.344	32047
722051.991	4294287.338	9580	21-Dec-13	ALEX122113 (1).SSF	571252.4751	32048
722052.44	4294286.721	9055	21-Dec-13	ALEX122113 (1).SSF	571253.3401	32049
722052.805	4294286.064	9163	21-Dec-13	ALEX122113 (1).SSF	571254.48	32050
722053.192	4294285.483	8711	21-Dec-13	ALEX122113 (1).SSF	571255.3789	32051
722053.724	4294284.729	9737	21-Dec-13	ALEX122113 (1).SSF	571256.51	32052
722054.152	4294284.159	9994	21-Dec-13	ALEX122113 (1).SSF	571257.4041	32053
722054.743	4294283.409	8528	21-Dec-13	ALEX122113 (1).SSF	571258.5	32054
722055.208	4294282.819	8852	21-Dec-13	ALEX122113 (1).SSF	571259.3521	32055
722055.841	4294282.251	10283	21-Dec-13	ALEX122113 (1).SSF	571260.374	32056
722056.381	4294281.863	10490	21-Dec-13	ALEX122113 (1).SSF	571261.3059	32057
722056.809	4294281.194	9732	21-Dec-13	ALEX122113 (1).SSF	571262.4651	32058
722057.178	4294280.567	8853	21-Dec-13	ALEX122113 (1).SSF	571263.3989	32059
722057.617	4294279.976	8183	21-Dec-13	ALEX122113 (1).SSF	571264.4561	32060
722058.142	4294279.356	8645	21-Dec-13	ALEX122113 (1).SSF	571265.418	32061
722058.663	4294278.704	8431	21-Dec-13	ALEX122113 (1).SSF	571266.4309	32062
722059.014	4294278.186	8587	21-Dec-13	ALEX122113 (1).SSF	571267.439	32063
722059.3	4294277.72	9197	21-Dec-13	ALEX122113 (1).SSF	571268.426	32064
722059.734	4294277.173	8419	21-Dec-13	ALEX122113 (1).SSF	571269.3469	32065
722060.164	4294276.55	9154	21-Dec-13	ALEX122113 (1).SSF	571270.395	32066
722060.577	4294275.88	9278	21-Dec-13	ALEX122113 (1).SSF	571271.321	32067
722061.19	4294275.002	8559	21-Dec-13	ALEX122113 (1).SSF	571272.396	32068
722061.743	4294274.335	8500	21-Dec-13	ALEX122113 (1).SSF	571273.312	32069
722062.385	4294273.402	8815	21-Dec-13	ALEX122113 (1).SSF	571274.426	32070
722062.848	4294272.632	9283	21-Dec-13	ALEX122113 (1).SSF	571275.313	32071
722063.394	4294271.797	9431	21-Dec-13	ALEX122113 (1).SSF	571276.458	32072

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722063.959	4294271.124	8627	21-Dec-13	ALEX122113 (1).SSF	571277.3899	32073
722064.676	4294270.183	8726	21-Dec-13	ALEX122113 (1).SSF	571278.439	32074
722065.226	4294269.319	9951	21-Dec-13	ALEX122113 (1).SSF	571279.342	32075
722065.97	4294268.295	10048	21-Dec-13	ALEX122113 (1).SSF	571280.4661	32076
722066.585	4294267.515	8692	21-Dec-13	ALEX122113 (1).SSF	571281.3601	32077
722067.18	4294266.692	8773	21-Dec-13	ALEX122113 (1).SSF	571282.5061	32078
722067.588	4294266.079	7863	21-Dec-13	ALEX122113 (1).SSF	571283.4209	32079
722068.094	4294265.293	8655	21-Dec-13	ALEX122113 (1).SSF	571284.427	32080
722068.512	4294264.564	8463	21-Dec-13	ALEX122113 (1).SSF	571285.356	32081
722068.964	4294263.928	9646	21-Dec-13	ALEX122113 (1).SSF	571286.438	32082
722069.566	4294263.369	8561	21-Dec-13	ALEX122113 (1).SSF	571287.365	32083
722070.399	4294262.521	9100	21-Dec-13	ALEX122113 (1).SSF	571288.4099	32084
722070.985	4294261.768	8395	21-Dec-13	ALEX122113 (1).SSF	571289.3569	32085
722071.349	4294261.133	8968	21-Dec-13	ALEX122113 (1).SSF	571290.4031	32086
722071.591	4294260.508	9232	21-Dec-13	ALEX122113 (1).SSF	571291.408	32087
722071.819	4294259.963	8848	21-Dec-13	ALEX122113 (1).SSF	571292.416	32088
722072.095	4294259.542	9052	21-Dec-13	ALEX122113 (1).SSF	571293.3169	32089
722072.546	4294258.909	9163	21-Dec-13	ALEX122113 (1).SSF	571294.4309	32090
722072.794	4294258.333	8350	21-Dec-13	ALEX122113 (1).SSF	571295.332	32091
722072.608	4294257.941	8357	21-Dec-13	ALEX122113 (1).SSF	571296.4031	32092
722072.311	4294257.877	8329	21-Dec-13	ALEX122113 (1).SSF	571297.4419	32093
722071.961	4294257.743	8982	21-Dec-13	ALEX122113 (1).SSF	571298.467	32094
722071.584	4294257.761	8635	21-Dec-13	ALEX122113 (1).SSF	571299.3979	32095
722071.244	4294257.968	8609	21-Dec-13	ALEX122113 (1).SSF	571300.446	32096
722070.829	4294258.314	7822	21-Dec-13	ALEX122113 (1).SSF	571301.4231	32097
722070.344	4294258.917	8255	21-Dec-13	ALEX122113 (1).SSF	571302.438	32098
722069.903	4294259.519	8723	21-Dec-13	ALEX122113 (1).SSF	571303.3569	32099
722069.282	4294260.145	9501	21-Dec-13	ALEX122113 (1).SSF	571304.4309	32100
722068.833	4294260.709	8855	21-Dec-13	ALEX122113 (1).SSF	571305.354	32101
722068.427	4294261.425	8693	21-Dec-13	ALEX122113 (1).SSF	571306.3979	32102
722068.036	4294261.943	7573	21-Dec-13	ALEX122113 (1).SSF	571307.355	32103
722067.84	4294262.111	8013	21-Dec-13	ALEX122113 (1).SSF	571308.4451	32104
722067.854	4294262.073	7793	21-Dec-13	ALEX122113 (1).SSF	571309.385	32105
722067.871	4294262.08	8398	21-Dec-13	ALEX122113 (1).SSF	571310.4509	32106
722067.891	4294262.103	8339	21-Dec-13	ALEX122113 (1).SSF	571311.3779	32107
722067.891	4294262.124	9375	21-Dec-13	ALEX122113 (1).SSF	571312.4441	32108
722067.919	4294262.144	10083	21-Dec-13	ALEX122113 (1).SSF	571313.3711	32109
722067.996	4294262.214	8190	21-Dec-13	ALEX122113 (1).SSF	571314.4121	32110
722068.04	4294262.282	8467	21-Dec-13	ALEX122113 (1).SSF	571315.386	32111
722067.93	4294262.355	8717	21-Dec-13	ALEX122113 (1).SSF	571316.4231	32112
722067.614	4294262.555	7909	21-Dec-13	ALEX122113 (1).SSF	571317.3569	32113
722067.118	4294263.041	8367	21-Dec-13	ALEX122113 (1).SSF	571318.4221	32114
722066.678	4294263.535	7912	21-Dec-13	ALEX122113 (1).SSF	571319.3831	32115
722066.182	4294264.134	7798	21-Dec-13	ALEX122113 (1).SSF	571320.46	32116
722065.795	4294264.711	8549	21-Dec-13	ALEX122113 (1).SSF	571321.3601	32117
722065.297	4294265.351	9637	21-Dec-13	ALEX122113 (1).SSF	571322.458	32118
722064.834	4294265.837	7839	21-Dec-13	ALEX122113 (1).SSF	571323.3269	32119

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722064.314	4294266.545	8679	21-Dec-13	ALEX122113 (1).SSF	571324.4641	32120
722063.924	4294267.073	7840	21-Dec-13	ALEX122113 (1).SSF	571325.3521	32121
722063.39	4294267.661	8710	21-Dec-13	ALEX122113 (1).SSF	571326.406	32122
722062.981	4294268.198	9167	21-Dec-13	ALEX122113 (1).SSF	571327.3469	32123
722062.535	4294268.867	9311	21-Dec-13	ALEX122113 (1).SSF	571328.385	32124
722062.054	4294269.529	8778	21-Dec-13	ALEX122113 (1).SSF	571329.3081	32125
722061.455	4294270.277	8944	21-Dec-13	ALEX122113 (1).SSF	571330.3569	32126
722060.925	4294270.962	9046	21-Dec-13	ALEX122113 (1).SSF	571331.3059	32127
722060.378	4294271.75	8801	21-Dec-13	ALEX122113 (1).SSF	571332.3711	32128
722059.832	4294272.452	8200	21-Dec-13	ALEX122113 (1).SSF	571333.3159	32129
722059.311	4294273.228	9310	21-Dec-13	ALEX122113 (1).SSF	571334.3711	32130
722058.831	4294273.927	8837	21-Dec-13	ALEX122113 (1).SSF	571335.3621	32131
722058.126	4294274.704	9199	21-Dec-13	ALEX122113 (1).SSF	571336.4351	32132
722057.574	4294275.415	9169	21-Dec-13	ALEX122113 (1).SSF	571337.364	32133
722057.016	4294276.251	10212	21-Dec-13	ALEX122113 (1).SSF	571338.4021	32134
722056.509	4294277.003	10383	21-Dec-13	ALEX122113 (1).SSF	571339.3611	32135
722056.042	4294277.729	9525	21-Dec-13	ALEX122113 (1).SSF	571340.3401	32136
722055.474	4294278.538	8681	21-Dec-13	ALEX122113 (1).SSF	571341.356	32137
722054.862	4294279.342	8410	21-Dec-13	ALEX122113 (1).SSF	571342.3879	32138
722054.29	4294280.037	8762	21-Dec-13	ALEX122113 (1).SSF	571343.312	32139
722053.663	4294280.769	8610	21-Dec-13	ALEX122113 (1).SSF	571344.3391	32140
722053.203	4294281.538	8872	21-Dec-13	ALEX122113 (1).SSF	571345.3621	32141
722052.782	4294282.405	10528	21-Dec-13	ALEX122113 (1).SSF	571346.478	32142
722052.406	4294283.064	10282	21-Dec-13	ALEX122113 (1).SSF	571347.418	32143
722052.075	4294283.701	9860	21-Dec-13	ALEX122113 (1).SSF	571348.4771	32144
722051.843	4294284.162	9275	21-Dec-13	ALEX122113 (1).SSF	571349.4031	32145
722051.7	4294284.416	9998	21-Dec-13	ALEX122113 (1).SSF	571350.407	32146
722051.715	4294284.427	9939	21-Dec-13	ALEX122113 (1).SSF	571351.3831	32147
722051.77	4294284.419	9325	21-Dec-13	ALEX122113 (1).SSF	571352.4041	32148
722051.773	4294284.469	8991	21-Dec-13	ALEX122113 (1).SSF	571353.415	32149
722051.644	4294284.641	9807	21-Dec-13	ALEX122113 (1).SSF	571354.4641	32150
722051.445	4294284.966	10072	21-Dec-13	ALEX122113 (1).SSF	571355.311	32151
722051.05	4294285.563	9448	21-Dec-13	ALEX122113 (1).SSF	571356.3601	32152
722050.484	4294286.164	9862	21-Dec-13	ALEX122113 (1).SSF	571357.321	32153
722049.835	4294286.827	10385	21-Dec-13	ALEX122113 (1).SSF	571358.3679	32154
722049.424	4294287.274	9376	21-Dec-13	ALEX122113 (1).SSF	571359.3081	32155
722048.994	4294287.789	8644	21-Dec-13	ALEX122113 (1).SSF	571360.437	32156
722048.549	4294288.361	8971	21-Dec-13	ALEX122113 (1).SSF	571361.324	32157
722047.978	4294289.079	8362	21-Dec-13	ALEX122113 (1).SSF	571362.3831	32158
722047.622	4294289.632	8960	21-Dec-13	ALEX122113 (1).SSF	571363.3101	32159
722047.207	4294290.265	9170	21-Dec-13	ALEX122113 (1).SSF	571364.4021	32160
722046.624	4294290.901	9612	21-Dec-13	ALEX122113 (1).SSF	571365.394	32161
722046.104	4294291.624	8103	21-Dec-13	ALEX122113 (1).SSF	571366.4351	32162
722045.697	4294292.221	9495	21-Dec-13	ALEX122113 (1).SSF	571367.343	32163
722045.072	4294292.904	9153	21-Dec-13	ALEX122113 (1).SSF	571368.4519	32164
722044.66	4294293.441	9578	21-Dec-13	ALEX122113 (1).SSF	571369.3369	32165
722044.255	4294294.063	8454	21-Dec-13	ALEX122113 (1).SSF	571370.4341	32166

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722043.839	4294294.542	8323	21-Dec-13	ALEX122113 (1).SSF	571371.2891	32167
722043.323	4294295.173	8471	21-Dec-13	ALEX122113 (1).SSF	571372.323	32168
722042.818	4294295.944	8657	21-Dec-13	ALEX122113 (1).SSF	571373.417	32169
722042.243	4294296.581	8314	21-Dec-13	ALEX122113 (1).SSF	571374.428	32170
722041.755	4294297.097	8558	21-Dec-13	ALEX122113 (1).SSF	571375.2681	32171
722041.164	4294297.865	8409	21-Dec-13	ALEX122113 (1).SSF	571376.3821	32172
722040.668	4294298.474	8612	21-Dec-13	ALEX122113 (1).SSF	571377.3069	32173
722040.018	4294299.115	7913	21-Dec-13	ALEX122113 (1).SSF	571378.3259	32174
722039.427	4294299.835	8248	21-Dec-13	ALEX122113 (1).SSF	571379.3601	32175
722038.891	4294300.547	8182	21-Dec-13	ALEX122113 (1).SSF	571380.4609	32176
722038.383	4294301.128	8585	21-Dec-13	ALEX122113 (1).SSF	571381.3779	32177
722037.863	4294301.851	9076	21-Dec-13	ALEX122113 (1).SSF	571382.3779	32178
722037.36	4294302.589	9259	21-Dec-13	ALEX122113 (1).SSF	571383.4209	32179
722036.728	4294303.315	9484	21-Dec-13	ALEX122113 (1).SSF	571384.47	32180
722036.217	4294303.961	9061	21-Dec-13	ALEX122113 (1).SSF	571385.3621	32181
722035.707	4294304.745	8085	21-Dec-13	ALEX122113 (1).SSF	571386.4341	32182
722035.225	4294305.356	9161	21-Dec-13	ALEX122113 (1).SSF	571387.4099	32183
722034.704	4294305.965	8260	21-Dec-13	ALEX122113 (1).SSF	571388.481	32184
722034.252	4294306.563	8995	21-Dec-13	ALEX122113 (1).SSF	571389.3689	32185
722033.688	4294307.274	8308	21-Dec-13	ALEX122113 (1).SSF	571390.3679	32186
722033.133	4294307.913	7927	21-Dec-13	ALEX122113 (1).SSF	571391.3091	32187
722032.618	4294308.683	7771	21-Dec-13	ALEX122113 (1).SSF	571392.3899	32188
722032.235	4294309.397	8572	21-Dec-13	ALEX122113 (1).SSF	571393.2991	32189
722031.717	4294310.108	9253	21-Dec-13	ALEX122113 (1).SSF	571394.3701	32190
722031.296	4294310.666	9633	21-Dec-13	ALEX122113 (1).SSF	571395.397	32191
722030.731	4294311.37	7958	21-Dec-13	ALEX122113 (1).SSF	571396.478	32192
722030.171	4294311.951	9909	21-Dec-13	ALEX122113 (1).SSF	571397.354	32193
722029.552	4294312.634	9167	21-Dec-13	ALEX122113 (1).SSF	571398.4529	32194
722029.098	4294313.283	9491	21-Dec-13	ALEX122113 (1).SSF	571399.3799	32195
722028.565	4294313.992	9063	21-Dec-13	ALEX122113 (1).SSF	571400.373	32196
722027.928	4294314.662	8145	21-Dec-13	ALEX122113 (1).SSF	571401.387	32197
722027.36	4294315.435	7766	21-Dec-13	ALEX122113 (1).SSF	571402.4399	32198
722026.888	4294316.227	8331	21-Dec-13	ALEX122113 (1).SSF	571403.377	32199
722026.365	4294316.97	8803	21-Dec-13	ALEX122113 (1).SSF	571404.375	32200
722025.877	4294317.597	9310	21-Dec-13	ALEX122113 (1).SSF	571405.3831	32201
722025.324	4294318.369	9617	21-Dec-13	ALEX122113 (1).SSF	571406.4419	32202
722024.789	4294319.104	9364	21-Dec-13	ALEX122113 (1).SSF	571407.4121	32203
722024.22	4294319.78	9301	21-Dec-13	ALEX122113 (1).SSF	571408.384	32204
722023.685	4294320.475	9945	21-Dec-13	ALEX122113 (1).SSF	571409.4309	32205
722023.298	4294321.057	8336	21-Dec-13	ALEX122113 (1).SSF	571410.3911	32206
722022.883	4294321.707	9224	21-Dec-13	ALEX122113 (1).SSF	571411.375	32207
722022.493	4294322.536	10316	21-Dec-13	ALEX122113 (1).SSF	571412.4629	32208
722022.222	4294323.077	9629	21-Dec-13	ALEX122113 (1).SSF	571413.354	32209
722021.807	4294323.498	8797	21-Dec-13	ALEX122113 (1).SSF	571414.501	32210
722021.416	4294323.576	8949	21-Dec-13	ALEX122113 (1).SSF	571415.3799	32211
722021.044	4294323.368	9317	21-Dec-13	ALEX122113 (1).SSF	571416.4221	32212
722021.004	4294323.154	8809	21-Dec-13	ALEX122113 (1).SSF	571417.416	32213

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722021.127	4294323.015	9702	21-Dec-13	ALEX122113 (1).SSF	571418.4041	32214
722021.347	4294322.755	10555	21-Dec-13	ALEX122113 (1).SSF	571419.405	32215
722021.673	4294322.247	9179	21-Dec-13	ALEX122113 (1).SSF	571420.3789	32216
722021.911	4294321.627	9044	21-Dec-13	ALEX122113 (1).SSF	571421.4751	32217
722021.847	4294321.443	9821	21-Dec-13	ALEX122113 (1).SSF	571422.418	32218
722021.733	4294321.503	10135	21-Dec-13	ALEX122113 (1).SSF	571423.3521	32219
722021.695	4294321.55	9733	21-Dec-13	ALEX122113 (1).SSF	571424.418	32220
722021.685	4294321.534	9333	21-Dec-13	ALEX122113 (1).SSF	571425.366	32221
722021.672	4294321.523	9143	21-Dec-13	ALEX122113 (1).SSF	571426.3721	32222
722021.662	4294321.526	9275	21-Dec-13	ALEX122113 (1).SSF	571427.293	32223
722021.67	4294321.535	9069	21-Dec-13	ALEX122113 (1).SSF	571428.3931	32224
722021.702	4294321.552	8507	21-Dec-13	ALEX122113 (1).SSF	571429.3049	32225
722021.732	4294321.586	8786	21-Dec-13	ALEX122113 (1).SSF	571430.364	32226
722021.765	4294321.585	9216	21-Dec-13	ALEX122113 (1).SSF	571431.4141	32227
722021.801	4294321.541	9294	21-Dec-13	ALEX122113 (1).SSF	571432.3999	32228
722021.76	4294321.529	9163	21-Dec-13	ALEX122113 (1).SSF	571433.332	32229
722021.764	4294321.496	8351	21-Dec-13	ALEX122113 (1).SSF	571434.4121	32230
722021.831	4294321.436	8957	21-Dec-13	ALEX122113 (1).SSF	571435.304	32231
722021.756	4294321.464	9079	21-Dec-13	ALEX122113 (1).SSF	571436.4319	32232
722021.693	4294321.462	7939	21-Dec-13	ALEX122113 (1).SSF	571437.3259	32233
722021.649	4294321.459	8345	21-Dec-13	ALEX122113 (1).SSF	571438.426	32234
722021.655	4294321.464	8806	21-Dec-13	ALEX122113 (1).SSF	571439.4031	32235
722021.705	4294321.444	10061	21-Dec-13	ALEX122113 (1).SSF	571440.4231	32236
722021.767	4294321.413	9085	21-Dec-13	ALEX122113 (1).SSF	571441.333	32237
722022.094	4294321.132	8451	21-Dec-13	ALEX122113 (1).SSF	571442.488	32238
722022.45	4294320.734	8532	21-Dec-13	ALEX122113 (1).SSF	571443.3359	32239
722022.917	4294320.055	9153	21-Dec-13	ALEX122113 (1).SSF	571444.4819	32240
722023.143	4294319.651	9698	21-Dec-13	ALEX122113 (1).SSF	571445.3491	32241
722023.193	4294319.438	8964	21-Dec-13	ALEX122113 (1).SSF	571446.344	32242
722023.175	4294319.402	8751	21-Dec-13	ALEX122113 (1).SSF	571447.2859	32243
722023.223	4294319.415	9177	21-Dec-13	ALEX122113 (1).SSF	571448.364	32244
722023.22	4294319.397	8414	21-Dec-13	ALEX122113 (1).SSF	571449.281	32245
722023.208	4294319.37	9273	21-Dec-13	ALEX122113 (1).SSF	571450.4021	32246
722023.218	4294319.375	9338	21-Dec-13	ALEX122113 (1).SSF	571451.252	32247
722023.204	4294319.398	9114	21-Dec-13	ALEX122113 (1).SSF	571452.3411	32248
722023.196	4294319.396	9598	21-Dec-13	ALEX122113 (1).SSF	571453.2859	32249
722023.221	4294319.368	9809	21-Dec-13	ALEX122113 (1).SSF	571454.304	32250
722023.228	4294319.355	10852	21-Dec-13	ALEX122113 (1).SSF	571455.3291	32251
722023.184	4294319.31	9793	21-Dec-13	ALEX122113 (1).SSF	571456.3491	32252
722023.122	4294319.25	9288	21-Dec-13	ALEX122113 (1).SSF	571457.3569	32253
722023.087	4294319.242	9162	21-Dec-13	ALEX122113 (1).SSF	571458.3621	32254
722023.036	4294319.298	9640	21-Dec-13	ALEX122113 (1).SSF	571459.3049	32255
722023.014	4294319.36	8350	21-Dec-13	ALEX122113 (1).SSF	571460.353	32256
722023.052	4294319.397	8357	21-Dec-13	ALEX122113 (1).SSF	571461.4031	32257
722023.102	4294319.346	8569	21-Dec-13	ALEX122113 (1).SSF	571462.4131	32258
722023.137	4294319.148	7722	21-Dec-13	ALEX122113 (1).SSF	571463.3369	32259
722023.043	4294318.917	9280	21-Dec-13	ALEX122113 (1).SSF	571464.3259	32260

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722023.052	4294318.803	9790	21-Dec-13	ALEX122113 (1).SSF	571465.345	32261
722023.388	4294318.792	9617	21-Dec-13	ALEX122113 (1).SSF	571466.4209	32262
722023.641	4294318.723	9514	21-Dec-13	ALEX122113 (1).SSF	571467.293	32263
722023.711	4294318.368	9068	21-Dec-13	ALEX122113 (1).SSF	571468.3821	32264
722023.59	4294318.207	8027	21-Dec-13	ALEX122113 (1).SSF	571469.323	32265
722023.589	4294318.328	9746	21-Dec-13	ALEX122113 (1).SSF	571470.345	32266
722023.813	4294318.595	8556	21-Dec-13	ALEX122113 (1).SSF	571471.325	32267
722023.845	4294318.938	8379	21-Dec-13	ALEX122113 (1).SSF	571472.342	32268
722023.699	4294319.064	8364	21-Dec-13	ALEX122113 (1).SSF	571473.332	32269
722023.765	4294318.855	8571	21-Dec-13	ALEX122113 (1).SSF	571474.3721	32270
722023.841	4294318.67	8442	21-Dec-13	ALEX122113 (1).SSF	571475.355	32271
722023.85	4294318.575	8980	21-Dec-13	ALEX122113 (1).SSF	571476.3879	32272
722023.722	4294318.59	8875	21-Dec-13	ALEX122113 (1).SSF	571477.3569	32273
722023.476	4294318.664	9658	21-Dec-13	ALEX122113 (1).SSF	571478.3811	32274
722023.35	4294318.629	9344	21-Dec-13	ALEX122113 (1).SSF	571479.365	32275
722023.397	4294318.465	9086	21-Dec-13	ALEX122113 (1).SSF	571480.3921	32276
722023.499	4294318.288	9171	21-Dec-13	ALEX122113 (1).SSF	571481.333	32277
722023.773	4294318.017	8652	21-Dec-13	ALEX122113 (1).SSF	571482.3091	32278
722024.145	4294317.775	9303	21-Dec-13	ALEX122113 (1).SSF	571483.332	32279
722024.385	4294317.549	8985	21-Dec-13	ALEX122113 (1).SSF	571484.3621	32280
722024.629	4294317.338	8606	21-Dec-13	ALEX122113 (1).SSF	571485.3579	32281
722024.675	4294317.385	9231	21-Dec-13	ALEX122113 (1).SSF	571486.408	32282
722024.586	4294317.542	9718	21-Dec-13	ALEX122113 (1).SSF	571487.373	32283
722024.686	4294317.608	8819	21-Dec-13	ALEX122113 (1).SSF	571488.4719	32284
722024.79	4294317.652	10305	21-Dec-13	ALEX122113 (1).SSF	571489.3689	32285
722024.869	4294317.724	10526	21-Dec-13	ALEX122113 (1).SSF	571490.4719	32286
722024.897	4294317.778	9771	21-Dec-13	ALEX122113 (1).SSF	571491.3101	32287
722024.822	4294317.906	9762	21-Dec-13	ALEX122113 (1).SSF	571492.3899	32288
722024.623	4294318.109	8380	21-Dec-13	ALEX122113 (1).SSF	571493.2781	32289
722024.511	4294318.269	7645	21-Dec-13	ALEX122113 (1).SSF	571494.3811	32290
722024.587	4294318.231	8301	21-Dec-13	ALEX122113 (1).SSF	571495.2781	32291
722024.645	4294318.171	9455	21-Dec-13	ALEX122113 (1).SSF	571496.3989	32292
722024.672	4294318.134	9413	21-Dec-13	ALEX122113 (1).SSF	571497.3799	32293
722024.695	4294318.105	8293	21-Dec-13	ALEX122113 (1).SSF	571498.4209	32294
722024.775	4294318.088	8613	21-Dec-13	ALEX122113 (1).SSF	571499.2939	32295
722025.067	4294317.965	10643	21-Dec-13	ALEX122113 (1).SSF	571500.2991	32296
722025.534	4294317.499	9320	21-Dec-13	ALEX122113 (1).SSF	571501.2849	32297
722025.925	4294316.912	10190	21-Dec-13	ALEX122113 (1).SSF	571502.2729	32298
722026.267	4294316.513	9807	21-Dec-13	ALEX122113 (1).SSF	571503.272	32299
722026.638	4294316.069	9082	21-Dec-13	ALEX122113 (1).SSF	571504.3081	32300
722027.166	4294315.565	8570	21-Dec-13	ALEX122113 (1).SSF	571505.373	32301
722027.698	4294315.148	9612	21-Dec-13	ALEX122113 (1).SSF	571506.3291	32302
722028.133	4294314.623	9303	21-Dec-13	ALEX122113 (1).SSF	571507.2781	32303
722028.544	4294314.069	8265	21-Dec-13	ALEX122113 (1).SSF	571508.3401	32304
722028.838	4294313.62	8666	21-Dec-13	ALEX122113 (1).SSF	571509.2839	32305
722029.212	4294312.769	8766	21-Dec-13	ALEX122113 (1).SSF	571510.426	32306
722029.605	4294312.047	9061	21-Dec-13	ALEX122113 (1).SSF	571511.303	32307

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722030.066	4294311.318	9015	21-Dec-13	ALEX122113 (1).SSF	571512.314	32308
722030.552	4294310.418	8913	21-Dec-13	ALEX122113 (1).SSF	571513.354	32309
722030.985	4294309.667	9728	21-Dec-13	ALEX122113 (1).SSF	571514.3391	32310
722031.44	4294309.106	9392	21-Dec-13	ALEX122113 (1).SSF	571515.313	32311
722031.995	4294308.366	9368	21-Dec-13	ALEX122113 (1).SSF	571516.3411	32312
722032.553	4294307.55	8882	21-Dec-13	ALEX122113 (1).SSF	571517.3501	32313
722032.985	4294306.829	8340	21-Dec-13	ALEX122113 (1).SSF	571518.3779	32314
722033.416	4294306.056	9045	21-Dec-13	ALEX122113 (1).SSF	571519.3789	32315
722033.839	4294305.313	8531	21-Dec-13	ALEX122113 (1).SSF	571520.3679	32316
722034.363	4294304.551	8943	21-Dec-13	ALEX122113 (1).SSF	571521.405	32317
722034.783	4294303.924	7785	21-Dec-13	ALEX122113 (1).SSF	571522.3181	32318
722035.269	4294303.158	8216	21-Dec-13	ALEX122113 (1).SSF	571523.345	32319
722035.863	4294302.278	9584	21-Dec-13	ALEX122113 (1).SSF	571524.4509	32320
722036.263	4294301.609	8036	21-Dec-13	ALEX122113 (1).SSF	571525.3511	32321
722036.656	4294300.837	8099	21-Dec-13	ALEX122113 (1).SSF	571526.355	32322
722037.082	4294300.191	9134	21-Dec-13	ALEX122113 (1).SSF	571527.2749	32323
722037.657	4294299.515	8553	21-Dec-13	ALEX122113 (1).SSF	571528.2771	32324
722038.089	4294298.835	8858	21-Dec-13	ALEX122113 (1).SSF	571529.2161	32325
722038.534	4294297.885	8754	21-Dec-13	ALEX122113 (1).SSF	571530.3579	32326
722039.024	4294297.111	9028	21-Dec-13	ALEX122113 (1).SSF	571531.3159	32327
722039.6	4294296.4	10027	21-Dec-13	ALEX122113 (1).SSF	571532.314	32328
722040.038	4294295.642	8836	21-Dec-13	ALEX122113 (1).SSF	571533.2849	32329
722040.625	4294294.717	9319	21-Dec-13	ALEX122113 (1).SSF	571534.416	32330
722041.102	4294294.119	9229	21-Dec-13	ALEX122113 (1).SSF	571535.26	32331
722041.858	4294293.244	8727	21-Dec-13	ALEX122113 (1).SSF	571536.4189	32332
722042.513	4294292.491	10162	21-Dec-13	ALEX122113 (1).SSF	571537.364	32333
722043.055	4294291.795	9590	21-Dec-13	ALEX122113 (1).SSF	571538.3899	32334
722043.403	4294291.209	10227	21-Dec-13	ALEX122113 (1).SSF	571539.291	32335
722043.786	4294290.433	9217	21-Dec-13	ALEX122113 (1).SSF	571540.4041	32336
722044.187	4294289.82	8994	21-Dec-13	ALEX122113 (1).SSF	571541.2771	32337
722044.807	4294289.259	9298	21-Dec-13	ALEX122113 (1).SSF	571542.2971	32338
722045.114	4294289.017	8894	21-Dec-13	ALEX122113 (1).SSF	571543.3059	32339
722045.021	4294288.961	10053	21-Dec-13	ALEX122113 (1).SSF	571544.3779	32340
722044.952	4294288.891	9983	21-Dec-13	ALEX122113 (1).SSF	571545.3359	32341
722045.051	4294288.577	9005	21-Dec-13	ALEX122113 (1).SSF	571546.3621	32342
722045.401	4294287.923	8341	21-Dec-13	ALEX122113 (1).SSF	571547.3521	32343
722045.96	4294287.128	10755	21-Dec-13	ALEX122113 (1).SSF	571548.321	32344
722046.681	4294286.379	9558	21-Dec-13	ALEX122113 (1).SSF	571549.353	32345
722047.246	4294285.78	9679	21-Dec-13	ALEX122113 (1).SSF	571550.3459	32346
722047.732	4294285.151	10070	21-Dec-13	ALEX122113 (1).SSF	571551.3269	32347
722048.41	4294284.332	9087	21-Dec-13	ALEX122113 (1).SSF	571552.363	32348
722048.947	4294283.656	9142	21-Dec-13	ALEX122113 (1).SSF	571553.28	32349
722049.391	4294282.978	9455	21-Dec-13	ALEX122113 (1).SSF	571554.2859	32350
722049.888	4294282.182	9713	21-Dec-13	ALEX122113 (1).SSF	571555.3789	32351
722050.311	4294281.556	8518	21-Dec-13	ALEX122113 (1).SSF	571556.3701	32352
722050.883	4294280.835	9779	21-Dec-13	ALEX122113 (1).SSF	571557.3511	32353
722051.621	4294279.947	9405	21-Dec-13	ALEX122113 (1).SSF	571558.4231	32354

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722052.168	4294279.257	9311	21-Dec-13	ALEX122113 (1).SSF	571559.3669	32355
722052.61	4294278.517	10397	21-Dec-13	ALEX122113 (1).SSF	571560.3501	32356
722053.087	4294277.743	10429	21-Dec-13	ALEX122113 (1).SSF	571561.3521	32357
722053.675	4294277.037	9507	21-Dec-13	ALEX122113 (1).SSF	571562.3491	32358
722054.127	4294276.488	9667	21-Dec-13	ALEX122113 (1).SSF	571563.2529	32359
722054.623	4294275.846	9946	21-Dec-13	ALEX122113 (1).SSF	571564.2849	32360
722055.29	4294275.061	9986	21-Dec-13	ALEX122113 (1).SSF	571565.324	32361
722056.094	4294274.118	9036	21-Dec-13	ALEX122113 (1).SSF	571566.4089	32362
722056.781	4294273.356	9759	21-Dec-13	ALEX122113 (1).SSF	571567.3469	32363
722057.328	4294272.715	9309	21-Dec-13	ALEX122113 (1).SSF	571568.3459	32364
722057.822	4294272.002	8987	21-Dec-13	ALEX122113 (1).SSF	571569.2971	32365
722058.37	4294271.235	8666	21-Dec-13	ALEX122113 (1).SSF	571570.323	32366
722058.87	4294270.603	7746	21-Dec-13	ALEX122113 (1).SSF	571571.324	32367
722059.356	4294269.902	8716	21-Dec-13	ALEX122113 (1).SSF	571572.312	32368
722059.855	4294269.184	8839	21-Dec-13	ALEX122113 (1).SSF	571573.3091	32369
722060.313	4294268.6	9109	21-Dec-13	ALEX122113 (1).SSF	571574.301	32370
722060.859	4294267.891	9327	21-Dec-13	ALEX122113 (1).SSF	571575.323	32371
722061.439	4294267.269	9352	21-Dec-13	ALEX122113 (1).SSF	571576.3721	32372
722061.945	4294266.781	9268	21-Dec-13	ALEX122113 (1).SSF	571577.3721	32373
722062.563	4294266.083	10597	21-Dec-13	ALEX122113 (1).SSF	571578.3679	32374
722063.183	4294265.417	10989	21-Dec-13	ALEX122113 (1).SSF	571579.4189	32375
722063.721	4294264.87	11237	21-Dec-13	ALEX122113 (1).SSF	571580.325	32376
722064.261	4294264.168	8779	21-Dec-13	ALEX122113 (1).SSF	571581.303	32377
722064.678	4294263.578	9034	21-Dec-13	ALEX122113 (1).SSF	571582.3059	32378
722065.182	4294263.027	9068	21-Dec-13	ALEX122113 (1).SSF	571583.313	32379
722065.65	4294262.429	9527	21-Dec-13	ALEX122113 (1).SSF	571584.3059	32380
722066.092	4294261.845	8261	21-Dec-13	ALEX122113 (1).SSF	571585.323	32381
722066.68	4294261.174	9475	21-Dec-13	ALEX122113 (1).SSF	571586.3291	32382
722067.233	4294260.465	8639	21-Dec-13	ALEX122113 (1).SSF	571587.304	32383
722067.75	4294259.74	8129	21-Dec-13	ALEX122113 (1).SSF	571588.365	32384
722067.974	4294259.107	8362	21-Dec-13	ALEX122113 (1).SSF	571589.386	32385
722067.773	4294258.728	9530	21-Dec-13	ALEX122113 (1).SSF	571590.3521	32386
722067.425	4294258.521	8712	21-Dec-13	ALEX122113 (1).SSF	571591.2419	32387
722067.155	4294258.036	9288	21-Dec-13	ALEX122113 (1).SSF	571592.2981	32388
722066.735	4294257.82	8292	21-Dec-13	ALEX122113 (1).SSF	571593.2959	32389
722066.448	4294257.858	8433	21-Dec-13	ALEX122113 (1).SSF	571594.281	32390
722066.171	4294257.966	8918	21-Dec-13	ALEX122113 (1).SSF	571595.3291	32391
722065.658	4294258.302	8469	21-Dec-13	ALEX122113 (1).SSF	571596.3589	32392
722065.26	4294258.851	8567	21-Dec-13	ALEX122113 (1).SSF	571597.312	32393
722064.876	4294259.579	7961	21-Dec-13	ALEX122113 (1).SSF	571598.384	32394
722064.429	4294260.168	8020	21-Dec-13	ALEX122113 (1).SSF	571599.3	32395
722063.924	4294260.725	9415	21-Dec-13	ALEX122113 (1).SSF	571600.293	32396
722063.583	4294261.32	9403	21-Dec-13	ALEX122113 (1).SSF	571601.3411	32397
722063.297	4294261.904	9251	21-Dec-13	ALEX122113 (1).SSF	571602.3601	32398
722062.889	4294262.413	9272	21-Dec-13	ALEX122113 (1).SSF	571603.312	32399
722062.519	4294263.079	10988	21-Dec-13	ALEX122113 (1).SSF	571604.3611	32400
722062.29	4294263.688	10637	21-Dec-13	ALEX122113 (1).SSF	571605.271	32401

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722061.833	4294264.333	10189	21-Dec-13	ALEX122113 (1).SSF	571606.3379	32402
722061.384	4294265.034	9147	21-Dec-13	ALEX122113 (1).SSF	571607.303	32403
722060.963	4294265.774	8947	21-Dec-13	ALEX122113 (1).SSF	571608.3279	32404
722060.415	4294266.401	8566	21-Dec-13	ALEX122113 (1).SSF	571609.3411	32405
722059.856	4294267.073	8981	21-Dec-13	ALEX122113 (1).SSF	571610.3411	32406
722059.329	4294267.821	8875	21-Dec-13	ALEX122113 (1).SSF	571611.3589	32407
722058.758	4294268.555	8909	21-Dec-13	ALEX122113 (1).SSF	571612.3979	32408
722058.342	4294269.161	8917	21-Dec-13	ALEX122113 (1).SSF	571613.3269	32409
722057.874	4294269.89	8049	21-Dec-13	ALEX122113 (1).SSF	571614.354	32410
722057.395	4294270.534	9392	21-Dec-13	ALEX122113 (1).SSF	571615.261	32411
722056.843	4294271.234	9308	21-Dec-13	ALEX122113 (1).SSF	571616.313	32412
722056.352	4294271.931	8747	21-Dec-13	ALEX122113 (1).SSF	571617.2561	32413
722055.805	4294272.688	9206	21-Dec-13	ALEX122113 (1).SSF	571618.281	32414
722055.127	4294273.381	8361	21-Dec-13	ALEX122113 (1).SSF	571619.3049	32415
722054.565	4294274.022	9050	21-Dec-13	ALEX122113 (1).SSF	571620.3391	32416
722054.084	4294274.64	8922	21-Dec-13	ALEX122113 (1).SSF	571621.2939	32417
722053.473	4294275.284	8620	21-Dec-13	ALEX122113 (1).SSF	571622.3589	32418
722053.018	4294275.858	8755	21-Dec-13	ALEX122113 (1).SSF	571623.3149	32419
722052.451	4294276.58	8788	21-Dec-13	ALEX122113 (1).SSF	571624.3279	32420
722051.91	4294277.194	9307	21-Dec-13	ALEX122113 (1).SSF	571625.1831	32421
722051.344	4294277.832	10096	21-Dec-13	ALEX122113 (1).SSF	571626.282	32422
722050.799	4294278.59	9694	21-Dec-13	ALEX122113 (1).SSF	571627.3259	32423
722050.292	4294279.353	10613	21-Dec-13	ALEX122113 (1).SSF	571628.2891	32424
722049.797	4294279.998	8863	21-Dec-13	ALEX122113 (1).SSF	571629.2461	32425
722049.291	4294280.638	8786	21-Dec-13	ALEX122113 (1).SSF	571630.2949	32426
722048.836	4294281.185	8736	21-Dec-13	ALEX122113 (1).SSF	571631.2561	32427
722048.271	4294281.823	9354	21-Dec-13	ALEX122113 (1).SSF	571632.282	32428
722047.828	4294282.533	7798	21-Dec-13	ALEX122113 (1).SSF	571633.2261	32429
722047.331	4294283.412	9149	21-Dec-13	ALEX122113 (1).SSF	571634.334	32430
722046.846	4294284.087	9397	21-Dec-13	ALEX122113 (1).SSF	571635.2871	32431
722046.353	4294284.792	8079	21-Dec-13	ALEX122113 (1).SSF	571636.3491	32432
722045.897	4294285.513	9219	21-Dec-13	ALEX122113 (1).SSF	571637.2749	32433
722045.319	4294286.295	8875	21-Dec-13	ALEX122113 (1).SSF	571638.272	32434
722044.687	4294287.09	9478	21-Dec-13	ALEX122113 (1).SSF	571639.3259	32435
722044.106	4294287.94	9209	21-Dec-13	ALEX122113 (1).SSF	571640.353	32436
722043.592	4294288.714	9322	21-Dec-13	ALEX122113 (1).SSF	571641.282	32437
722042.939	4294289.457	9080	21-Dec-13	ALEX122113 (1).SSF	571642.321	32438
722042.376	4294290.121	8780	21-Dec-13	ALEX122113 (1).SSF	571643.2781	32439
722041.942	4294290.899	9155	21-Dec-13	ALEX122113 (1).SSF	571644.322	32440
722041.489	4294291.524	9278	21-Dec-13	ALEX122113 (1).SSF	571645.2781	32441
722040.875	4294292.11	8769	21-Dec-13	ALEX122113 (1).SSF	571646.324	32442
722040.325	4294292.666	9512	21-Dec-13	ALEX122113 (1).SSF	571647.28	32443
722039.664	4294293.499	8948	21-Dec-13	ALEX122113 (1).SSF	571648.426	32444
722039.064	4294294.173	9077	21-Dec-13	ALEX122113 (1).SSF	571649.374	32445
722038.507	4294294.759	8629	21-Dec-13	ALEX122113 (1).SSF	571650.366	32446
722037.991	4294295.409	8754	21-Dec-13	ALEX122113 (1).SSF	571651.3201	32447
722037.418	4294296.128	7964	21-Dec-13	ALEX122113 (1).SSF	571652.3721	32448

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722036.918	4294296.69	8662	21-Dec-13	ALEX122113 (1).SSF	571653.281	32449
722036.399	4294297.408	9272	21-Dec-13	ALEX122113 (1).SSF	571654.3479	32450
722035.993	4294298.004	9278	21-Dec-13	ALEX122113 (1).SSF	571655.2949	32451
722035.452	4294298.657	9399	21-Dec-13	ALEX122113 (1).SSF	571656.4089	32452
722034.995	4294299.289	9700	21-Dec-13	ALEX122113 (1).SSF	571657.3369	32453
722034.542	4294299.895	9685	21-Dec-13	ALEX122113 (1).SSF	571658.3101	32454
722034.074	4294300.477	9231	21-Dec-13	ALEX122113 (1).SSF	571659.3369	32455
722033.66	4294301.169	8757	21-Dec-13	ALEX122113 (1).SSF	571660.3579	32456
722033.225	4294301.729	9149	21-Dec-13	ALEX122113 (1).SSF	571661.3149	32457
722032.662	4294302.283	9487	21-Dec-13	ALEX122113 (1).SSF	571662.344	32458
722032.108	4294302.969	9421	21-Dec-13	ALEX122113 (1).SSF	571663.3511	32459
722031.575	4294303.593	9405	21-Dec-13	ALEX122113 (1).SSF	571664.3911	32460
722031.134	4294304.055	8561	21-Dec-13	ALEX122113 (1).SSF	571665.2991	32461
722030.63	4294304.679	8230	21-Dec-13	ALEX122113 (1).SSF	571666.2971	32462
722030.073	4294305.428	8357	21-Dec-13	ALEX122113 (1).SSF	571667.3511	32463
722029.601	4294306.017	8299	21-Dec-13	ALEX122113 (1).SSF	571668.3369	32464
722029.137	4294306.603	8914	21-Dec-13	ALEX122113 (1).SSF	571669.3821	32465
722028.622	4294307.294	9218	21-Dec-13	ALEX122113 (1).SSF	571670.3789	32466
722028.101	4294307.904	9114	21-Dec-13	ALEX122113 (1).SSF	571671.3479	32467
722027.598	4294308.433	8428	21-Dec-13	ALEX122113 (1).SSF	571672.3391	32468
722027.089	4294309.077	9217	21-Dec-13	ALEX122113 (1).SSF	571673.3201	32469
722026.532	4294309.737	10194	21-Dec-13	ALEX122113 (1).SSF	571674.376	32470
722026.089	4294310.205	9178	21-Dec-13	ALEX122113 (1).SSF	571675.2629	32471
722025.537	4294310.886	9674	21-Dec-13	ALEX122113 (1).SSF	571676.3459	32472
722025.044	4294311.489	10548	21-Dec-13	ALEX122113 (1).SSF	571677.248	32473
722024.523	4294312.113	10767	21-Dec-13	ALEX122113 (1).SSF	571678.283	32474
722024.014	4294312.782	9711	21-Dec-13	ALEX122113 (1).SSF	571679.249	32475
722023.49	4294313.466	9778	21-Dec-13	ALEX122113 (1).SSF	571680.262	32476
722022.999	4294314.095	8984	21-Dec-13	ALEX122113 (1).SSF	571681.292	32477
722022.538	4294314.807	9206	21-Dec-13	ALEX122113 (1).SSF	571682.324	32478
722022.092	4294315.516	9651	21-Dec-13	ALEX122113 (1).SSF	571683.259	32479
722021.472	4294316.321	10212	21-Dec-13	ALEX122113 (1).SSF	571684.2791	32480
722020.948	4294317.086	9306	21-Dec-13	ALEX122113 (1).SSF	571685.3301	32481
722020.486	4294317.704	9293	21-Dec-13	ALEX122113 (1).SSF	571686.354	32482
722019.967	4294318.249	9506	21-Dec-13	ALEX122113 (1).SSF	571687.2959	32483
722019.454	4294318.946	10878	21-Dec-13	ALEX122113 (1).SSF	571688.333	32484
722018.964	4294319.627	10339	21-Dec-13	ALEX122113 (1).SSF	571689.2759	32485
722018.296	4294320.182	9094	21-Dec-13	ALEX122113 (1).SSF	571690.3479	32486
722017.895	4294320.408	9233	21-Dec-13	ALEX122113 (1).SSF	571691.2859	32487
722017.822	4294320.489	10468	21-Dec-13	ALEX122113 (1).SSF	571692.322	32488
722017.845	4294320.524	10087	21-Dec-13	ALEX122113 (1).SSF	571693.249	32489
722017.671	4294320.521	9721	21-Dec-13	ALEX122113 (1).SSF	571694.333	32490
722017.617	4294320.464	9120	21-Dec-13	ALEX122113 (1).SSF	571695.26	32491
722017.771	4294320.451	8190	21-Dec-13	ALEX122113 (1).SSF	571696.3301	32492
722017.806	4294320.498	8977	21-Dec-13	ALEX122113 (1).SSF	571697.2739	32493
722017.769	4294320.544	9714	21-Dec-13	ALEX122113 (1).SSF	571698.3821	32494
722017.786	4294320.578	10258	21-Dec-13	ALEX122113 (1).SSF	571699.303	32495

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722017.787	4294320.603	9734	21-Dec-13	ALEX122113 (1).SSF	571700.3469	32496
722017.776	4294320.606	9633	21-Dec-13	ALEX122113 (1).SSF	571701.2649	32497
722017.752	4294320.611	10838	21-Dec-13	ALEX122113 (1).SSF	571702.3911	32498
722017.741	4294320.633	10419	21-Dec-13	ALEX122113 (1).SSF	571703.324	32499
722017.731	4294320.638	9775	21-Dec-13	ALEX122113 (1).SSF	571704.3311	32500
722017.729	4294320.625	10033	21-Dec-13	ALEX122113 (1).SSF	571705.2981	32501
722017.725	4294320.613	10278	21-Dec-13	ALEX122113 (1).SSF	571706.3721	32502
722017.699	4294320.623	9229	21-Dec-13	ALEX122113 (1).SSF	571707.217	32503
722017.638	4294320.63	9837	21-Dec-13	ALEX122113 (1).SSF	571708.2739	32504
722017.618	4294320.612	9629	21-Dec-13	ALEX122113 (1).SSF	571709.2151	32505
722017.63	4294320.623	9247	21-Dec-13	ALEX122113 (1).SSF	571710.3501	32506
722017.638	4294320.629	9361	21-Dec-13	ALEX122113 (1).SSF	571711.2549	32507
722017.644	4294320.644	9480	21-Dec-13	ALEX122113 (1).SSF	571712.3589	32508
722017.669	4294320.642	10350	21-Dec-13	ALEX122113 (1).SSF	571713.2671	32509
722017.707	4294320.635	9517	21-Dec-13	ALEX122113 (1).SSF	571714.291	32510
722017.729	4294320.63	9789	21-Dec-13	ALEX122113 (1).SSF	571715.333	32511
722017.712	4294320.645	9857	21-Dec-13	ALEX122113 (1).SSF	571716.363	32512
722017.706	4294320.657	10174	21-Dec-13	ALEX122113 (1).SSF	571717.3181	32513
722017.676	4294320.666	9053	21-Dec-13	ALEX122113 (1).SSF	571718.3979	32514
722017.626	4294320.664	9823	21-Dec-13	ALEX122113 (1).SSF	571719.3269	32515
722017.584	4294320.637	9296	21-Dec-13	ALEX122113 (1).SSF	571720.3291	32516
722017.551	4294320.624	8954	21-Dec-13	ALEX122113 (1).SSF	571721.2959	32517
722017.511	4294320.591	8868	21-Dec-13	ALEX122113 (1).SSF	571722.374	32518
722017.515	4294320.584	9597	21-Dec-13	ALEX122113 (1).SSF	571723.3201	32519
722017.559	4294320.674	10169	21-Dec-13	ALEX122113 (1).SSF	571724.3711	32520
722017.568	4294320.725	9622	21-Dec-13	ALEX122113 (1).SSF	571725.262	32521
722017.553	4294320.754	9635	21-Dec-13	ALEX122113 (1).SSF	571726.241	32522
722017.512	4294320.772	8498	21-Dec-13	ALEX122113 (1).SSF	571727.1799	32523
722017.453	4294320.81	9834	21-Dec-13	ALEX122113 (1).SSF	571728.2561	32524
722017.402	4294320.849	8398	21-Dec-13	ALEX122113 (1).SSF	571729.1531	32525
722017.392	4294320.814	9029	21-Dec-13	ALEX122113 (1).SSF	571730.272	32526
722017.443	4294320.748	9247	21-Dec-13	ALEX122113 (1).SSF	571731.2319	32527
722017.201	4294320.803	9721	21-Dec-13	ALEX122113 (1).SSF	571732.26	32528
722017.031	4294320.851	10560	21-Dec-13	ALEX122113 (1).SSF	571733.2241	32529
722016.932	4294320.865	9210	21-Dec-13	ALEX122113 (1).SSF	571734.324	32530
722016.895	4294320.834	8842	21-Dec-13	ALEX122113 (1).SSF	571735.2019	32531
722016.869	4294320.746	9680	21-Dec-13	ALEX122113 (1).SSF	571736.3181	32532
722016.817	4294320.758	10010	21-Dec-13	ALEX122113 (1).SSF	571737.2209	32533
722016.854	4294320.743	10182	21-Dec-13	ALEX122113 (1).SSF	571738.3459	32534
722016.928	4294320.46	9745	21-Dec-13	ALEX122113 (1).SSF	571739.259	32535
722016.637	4294320.086	9576	21-Dec-13	ALEX122113 (1).SSF	571740.3669	32536
722016.311	4294320.092	10374	21-Dec-13	ALEX122113 (1).SSF	571741.3149	32537
722016.033	4294320.162	10003	21-Dec-13	ALEX122113 (1).SSF	571742.333	32538
722015.88	4294320.204	8981	21-Dec-13	ALEX122113 (1).SSF	571743.2009	32539
722015.911	4294320.128	9205	21-Dec-13	ALEX122113 (1).SSF	571744.3579	32540
722016.002	4294319.915	8931	21-Dec-13	ALEX122113 (1).SSF	571745.2729	32541
722016.065	4294320.095	9192	21-Dec-13	ALEX122113 (1).SSF	571746.3521	32542

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722016.186	4294320.255	8238	21-Dec-13	ALEX122113 (1).SSF	571747.2629	32543
722016.367	4294320.156	7729	21-Dec-13	ALEX122113 (1).SSF	571748.4041	32544
722016.47	4294320.105	9642	21-Dec-13	ALEX122113 (1).SSF	571749.2771	32545
722016.553	4294320.124	8980	21-Dec-13	ALEX122113 (1).SSF	571750.345	32546
722016.595	4294320.162	9055	21-Dec-13	ALEX122113 (1).SSF	571751.2759	32547
722016.611	4294320.25	9163	21-Dec-13	ALEX122113 (1).SSF	571752.2981	32548
722016.603	4294320.341	8561	21-Dec-13	ALEX122113 (1).SSF	571753.23	32549
722016.605	4294320.348	9160	21-Dec-13	ALEX122113 (1).SSF	571754.314	32550
722016.616	4294320.35	8860	21-Dec-13	ALEX122113 (1).SSF	571755.249	32551
722016.589	4294320.446	9535	21-Dec-13	ALEX122113 (1).SSF	571756.3069	32552
722016.585	4294320.526	10153	21-Dec-13	ALEX122113 (1).SSF	571757.229	32553
722016.615	4294320.484	10578	21-Dec-13	ALEX122113 (1).SSF	571758.3511	32554
722016.618	4294320.29	10204	21-Dec-13	ALEX122113 (1).SSF	571759.22	32555
722016.647	4294319.886	9091	21-Dec-13	ALEX122113 (1).SSF	571760.2859	32556
722016.783	4294319.488	8632	21-Dec-13	ALEX122113 (1).SSF	571761.3291	32557
722016.858	4294319.229	9118	21-Dec-13	ALEX122113 (1).SSF	571762.2959	32558
722016.816	4294319.172	9359	21-Dec-13	ALEX122113 (1).SSF	571763.2229	32559
722016.861	4294319.144	9120	21-Dec-13	ALEX122113 (1).SSF	571764.2939	32560
722017.165	4294318.813	9540	21-Dec-13	ALEX122113 (1).SSF	571765.1951	32561
722017.679	4294318.171	9435	21-Dec-13	ALEX122113 (1).SSF	571766.262	32562
722018.13	4294317.626	9198	21-Dec-13	ALEX122113 (1).SSF	571767.1909	32563
722018.625	4294316.954	9499	21-Dec-13	ALEX122113 (1).SSF	571768.303	32564
722019.103	4294316.282	9484	21-Dec-13	ALEX122113 (1).SSF	571769.2581	32565
722019.656	4294315.561	8851	21-Dec-13	ALEX122113 (1).SSF	571770.3601	32566
722020.062	4294314.943	9892	21-Dec-13	ALEX122113 (1).SSF	571771.2029	32567
722020.629	4294314.109	8833	21-Dec-13	ALEX122113 (1).SSF	571772.366	32568
722021.008	4294313.606	10158	21-Dec-13	ALEX122113 (1).SSF	571773.1919	32569
722021.503	4294312.693	8959	21-Dec-13	ALEX122113 (1).SSF	571774.3521	32570
722021.971	4294311.906	9649	21-Dec-13	ALEX122113 (1).SSF	571775.2791	32571
722022.604	4294311.119	10572	21-Dec-13	ALEX122113 (1).SSF	571776.293	32572
722023.223	4294310.429	9843	21-Dec-13	ALEX122113 (1).SSF	571777.311	32573
722023.742	4294309.854	9210	21-Dec-13	ALEX122113 (1).SSF	571778.2371	32574
722024.344	4294309.167	9022	21-Dec-13	ALEX122113 (1).SSF	571779.179	32575
722024.978	4294308.436	9035	21-Dec-13	ALEX122113 (1).SSF	571780.3469	32576
722025.468	4294307.843	8139	21-Dec-13	ALEX122113 (1).SSF	571781.3201	32577
722026.03	4294307.243	7854	21-Dec-13	ALEX122113 (1).SSF	571782.3921	32578
722026.556	4294306.724	9283	21-Dec-13	ALEX122113 (1).SSF	571783.322	32579
722027.102	4294305.975	10181	21-Dec-13	ALEX122113 (1).SSF	571784.335	32580
722027.564	4294305.231	8515	21-Dec-13	ALEX122113 (1).SSF	571785.271	32581
722028.155	4294304.451	8908	21-Dec-13	ALEX122113 (1).SSF	571786.3491	32582
722028.677	4294303.77	8707	21-Dec-13	ALEX122113 (1).SSF	571787.302	32583
722029.276	4294302.953	8176	21-Dec-13	ALEX122113 (1).SSF	571788.313	32584
722029.935	4294302.158	9064	21-Dec-13	ALEX122113 (1).SSF	571789.271	32585
722030.65	4294301.38	8026	21-Dec-13	ALEX122113 (1).SSF	571790.313	32586
722031.181	4294300.6	8396	21-Dec-13	ALEX122113 (1).SSF	571791.3279	32587
722031.673	4294299.79	9089	21-Dec-13	ALEX122113 (1).SSF	571792.301	32588
722032.257	4294299.066	9682	21-Dec-13	ALEX122113 (1).SSF	571793.2419	32589

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722032.902	4294298.429	10070	21-Dec-13	ALEX122113 (1).SSF	571794.2109	32590
722033.546	4294297.743	9717	21-Dec-13	ALEX122113 (1).SSF	571795.313	32591
722034.198	4294296.996	9719	21-Dec-13	ALEX122113 (1).SSF	571796.3411	32592
722034.703	4294296.305	9630	21-Dec-13	ALEX122113 (1).SSF	571797.23	32593
722035.3	4294295.263	9457	21-Dec-13	ALEX122113 (1).SSF	571798.3921	32594
722035.783	4294294.531	10704	21-Dec-13	ALEX122113 (1).SSF	571799.301	32595
722036.365	4294293.875	9696	21-Dec-13	ALEX122113 (1).SSF	571800.3279	32596
722036.872	4294293.204	9624	21-Dec-13	ALEX122113 (1).SSF	571801.2791	32597
722037.404	4294292.397	9246	21-Dec-13	ALEX122113 (1).SSF	571802.3059	32598
722037.961	4294291.721	8551	21-Dec-13	ALEX122113 (1).SSF	571803.1919	32599
722038.636	4294290.942	8617	21-Dec-13	ALEX122113 (1).SSF	571804.354	32600
722039.051	4294290.367	10704	21-Dec-13	ALEX122113 (1).SSF	571805.1431	32601
722039.626	4294289.525	10656	21-Dec-13	ALEX122113 (1).SSF	571806.228	32602
722040.079	4294288.907	8184	21-Dec-13	ALEX122113 (1).SSF	571807.1489	32603
722040.592	4294288.041	8466	21-Dec-13	ALEX122113 (1).SSF	571808.321	32604
722040.955	4294287.468	8296	21-Dec-13	ALEX122113 (1).SSF	571809.156	32605
722041.568	4294286.796	8854	21-Dec-13	ALEX122113 (1).SSF	571810.313	32606
722042.07	4294286.093	8513	21-Dec-13	ALEX122113 (1).SSF	571811.2959	32607
722042.572	4294285.237	8098	21-Dec-13	ALEX122113 (1).SSF	571812.3159	32608
722043.067	4294284.505	8864	21-Dec-13	ALEX122113 (1).SSF	571813.2549	32609
722043.621	4294283.873	8966	21-Dec-13	ALEX122113 (1).SSF	571814.3279	32610
722044.146	4294283.237	8811	21-Dec-13	ALEX122113 (1).SSF	571815.271	32611
722044.71	4294282.504	9192	21-Dec-13	ALEX122113 (1).SSF	571816.248	32612
722045.244	4294281.814	9468	21-Dec-13	ALEX122113 (1).SSF	571817.304	32613
722045.794	4294281.03	10347	21-Dec-13	ALEX122113 (1).SSF	571818.2429	32614
722046.265	4294280.291	10746	21-Dec-13	ALEX122113 (1).SSF	571819.158	32615
722046.99	4294279.459	9436	21-Dec-13	ALEX122113 (1).SSF	571820.3269	32616
722047.583	4294278.801	8929	21-Dec-13	ALEX122113 (1).SSF	571821.325	32617
722048.157	4294278.158	9612	21-Dec-13	ALEX122113 (1).SSF	571822.2859	32618
722048.83	4294277.419	9063	21-Dec-13	ALEX122113 (1).SSF	571823.2451	32619
722049.644	4294276.471	9165	21-Dec-13	ALEX122113 (1).SSF	571824.3311	32620
722050.089	4294275.729	9911	21-Dec-13	ALEX122113 (1).SSF	571825.2451	32621
722050.64	4294274.894	9168	21-Dec-13	ALEX122113 (1).SSF	571826.2419	32622
722051.225	4294274.198	8202	21-Dec-13	ALEX122113 (1).SSF	571827.1799	32623
722051.843	4294273.357	9820	21-Dec-13	ALEX122113 (1).SSF	571828.3369	32624
722052.296	4294272.628	9205	21-Dec-13	ALEX122113 (1).SSF	571829.2429	32625
722052.8	4294271.825	8721	21-Dec-13	ALEX122113 (1).SSF	571830.2109	32626
722053.359	4294271.039	9380	21-Dec-13	ALEX122113 (1).SSF	571831.2739	32627
722054.005	4294270.196	8795	21-Dec-13	ALEX122113 (1).SSF	571832.2981	32628
722054.56	4294269.436	9488	21-Dec-13	ALEX122113 (1).SSF	571833.343	32629
722055.092	4294268.874	8822	21-Dec-13	ALEX122113 (1).SSF	571834.2571	32630
722055.828	4294268.253	8685	21-Dec-13	ALEX122113 (1).SSF	571835.3	32631
722056.647	4294267.339	8231	21-Dec-13	ALEX122113 (1).SSF	571836.2981	32632
722057.297	4294266.437	8688	21-Dec-13	ALEX122113 (1).SSF	571837.2971	32633
722057.845	4294265.773	8202	21-Dec-13	ALEX122113 (1).SSF	571838.2791	32634
722058.425	4294265.036	9070	21-Dec-13	ALEX122113 (1).SSF	571839.313	32635
722059.103	4294264.084	8687	21-Dec-13	ALEX122113 (1).SSF	571840.3479	32636

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722059.603	4294263.27	8921	21-Dec-13	ALEX122113 (1).SSF	571841.312	32637
722060.154	4294262.545	8800	21-Dec-13	ALEX122113 (1).SSF	571842.3779	32638
722060.662	4294262.055	8800	21-Dec-13	ALEX122113 (1).SSF	571843.2839	32639
722061.281	4294261.489	8740	21-Dec-13	ALEX122113 (1).SSF	571844.3789	32640
722061.664	4294261.036	9085	21-Dec-13	ALEX122113 (1).SSF	571845.2839	32641
722062.113	4294260.405	9621	21-Dec-13	ALEX122113 (1).SSF	571846.325	32642
722062.576	4294259.764	9455	21-Dec-13	ALEX122113 (1).SSF	571847.373	32643
722062.953	4294259.251	8873	21-Dec-13	ALEX122113 (1).SSF	571848.3049	32644
722063.392	4294258.66	8848	21-Dec-13	ALEX122113 (1).SSF	571849.2871	32645
722063.633	4294258.112	9772	21-Dec-13	ALEX122113 (1).SSF	571850.2849	32646
722063.464	4294258.015	8563	21-Dec-13	ALEX122113 (1).SSF	571851.145	32647
722063.114	4294258.054	7960	21-Dec-13	ALEX122113 (1).SSF	571852.2581	32648
722062.846	4294257.629	8950	21-Dec-13	ALEX122113 (1).SSF	571853.1799	32649
722062.269	4294257.26	7787	21-Dec-13	ALEX122113 (1).SSF	571854.2959	32650
722061.998	4294257.168	8636	21-Dec-13	ALEX122113 (1).SSF	571855.262	32651
722062.034	4294257.207	8369	21-Dec-13	ALEX122113 (1).SSF	571856.3369	32652
722062.018	4294257.284	8662	21-Dec-13	ALEX122113 (1).SSF	571857.2329	32653
722061.766	4294257.467	8075	21-Dec-13	ALEX122113 (1).SSF	571858.2439	32654
722061.376	4294257.877	8048	21-Dec-13	ALEX122113 (1).SSF	571859.2	32655
722060.918	4294258.553	7952	21-Dec-13	ALEX122113 (1).SSF	571860.3521	32656
722060.475	4294259.088	8378	21-Dec-13	ALEX122113 (1).SSF	571861.2461	32657
722059.92	4294259.73	8994	21-Dec-13	ALEX122113 (1).SSF	571862.4431	32658
722059.616	4294260.118	8368	21-Dec-13	ALEX122113 (1).SSF	571863.187	32659
722059.035	4294260.776	7702	21-Dec-13	ALEX122113 (1).SSF	571864.321	32660
722058.629	4294261.365	8615	21-Dec-13	ALEX122113 (1).SSF	571865.2971	32661
722058.306	4294262.083	9353	21-Dec-13	ALEX122113 (1).SSF	571866.3831	32662
722057.801	4294262.667	8818	21-Dec-13	ALEX122113 (1).SSF	571867.3621	32663
722057.21	4294263.129	9494	21-Dec-13	ALEX122113 (1).SSF	571868.2891	32664
722056.698	4294263.743	8193	21-Dec-13	ALEX122113 (1).SSF	571869.3469	32665
722056.278	4294264.324	7208	21-Dec-13	ALEX122113 (1).SSF	571870.3831	32666
722055.891	4294264.748	8342	21-Dec-13	ALEX122113 (1).SSF	571871.2129	32667
722055.296	4294265.471	9555	21-Dec-13	ALEX122113 (1).SSF	571872.3401	32668
722054.762	4294266.082	9078	21-Dec-13	ALEX122113 (1).SSF	571873.3169	32669
722054.148	4294266.657	9439	21-Dec-13	ALEX122113 (1).SSF	571874.3149	32670
722053.599	4294267.327	8780	21-Dec-13	ALEX122113 (1).SSF	571875.3091	32671
722053.105	4294268.157	8945	21-Dec-13	ALEX122113 (1).SSF	571876.343	32672
722052.721	4294268.752	9406	21-Dec-13	ALEX122113 (1).SSF	571877.1831	32673
722052.112	4294269.461	8351	21-Dec-13	ALEX122113 (1).SSF	571878.322	32674
722051.535	4294270.151	8688	21-Dec-13	ALEX122113 (1).SSF	571879.3459	32675
722051.032	4294270.764	9822	21-Dec-13	ALEX122113 (1).SSF	571880.303	32676
722050.532	4294271.352	9685	21-Dec-13	ALEX122113 (1).SSF	571881.2141	32677
722050.01	4294272.079	8301	21-Dec-13	ALEX122113 (1).SSF	571882.2561	32678
722049.544	4294272.787	8825	21-Dec-13	ALEX122113 (1).SSF	571883.302	32679
722049.043	4294273.376	8386	21-Dec-13	ALEX122113 (1).SSF	571884.2881	32680
722048.483	4294273.896	8066	21-Dec-13	ALEX122113 (1).SSF	571885.2661	32681
722047.962	4294274.506	8826	21-Dec-13	ALEX122113 (1).SSF	571886.3069	32682
722047.521	4294275.118	8386	21-Dec-13	ALEX122113 (1).SSF	571887.2629	32683

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722046.879	4294275.805	9086	21-Dec-13	ALEX122113 (1).SSF	571888.3149	32684
722046.376	4294276.386	9171	21-Dec-13	ALEX122113 (1).SSF	571889.2319	32685
722045.932	4294277.106	9613	21-Dec-13	ALEX122113 (1).SSF	571890.27	32686
722045.411	4294277.846	9723	21-Dec-13	ALEX122113 (1).SSF	571891.2891	32687
722044.761	4294278.611	8160	21-Dec-13	ALEX122113 (1).SSF	571892.314	32688
722044.086	4294279.281	8190	21-Dec-13	ALEX122113 (1).SSF	571893.304	32689
722043.594	4294279.856	8047	21-Dec-13	ALEX122113 (1).SSF	571894.2781	32690
722043.114	4294280.441	8582	21-Dec-13	ALEX122113 (1).SSF	571895.283	32691
722042.463	4294281.068	9915	21-Dec-13	ALEX122113 (1).SSF	571896.321	32692
722041.931	4294281.636	9828	21-Dec-13	ALEX122113 (1).SSF	571897.2271	32693
722041.416	4294282.425	9867	21-Dec-13	ALEX122113 (1).SSF	571898.303	32694
722040.972	4294283.044	9007	21-Dec-13	ALEX122113 (1).SSF	571899.21	32695
722040.314	4294283.729	8191	21-Dec-13	ALEX122113 (1).SSF	571900.3621	32696
722039.852	4294284.281	8647	21-Dec-13	ALEX122113 (1).SSF	571901.2241	32697
722039.339	4294284.987	9032	21-Dec-13	ALEX122113 (1).SSF	571902.3721	32698
722038.809	4294285.535	8018	21-Dec-13	ALEX122113 (1).SSF	571903.3369	32699
722038.273	4294286.194	8724	21-Dec-13	ALEX122113 (1).SSF	571904.3821	32700
722037.873	4294286.829	9951	21-Dec-13	ALEX122113 (1).SSF	571905.269	32701
722037.367	4294287.544	10107	21-Dec-13	ALEX122113 (1).SSF	571906.2891	32702
722037.015	4294288.017	9757	21-Dec-13	ALEX122113 (1).SSF	571907.1021	32703
722036.545	4294288.626	9759	21-Dec-13	ALEX122113 (1).SSF	571908.2141	32704
722036.057	4294289.144	9699	21-Dec-13	ALEX122113 (1).SSF	571909.1311	32705
722035.356	4294289.863	9985	21-Dec-13	ALEX122113 (1).SSF	571910.342	32706
722034.9	4294290.401	8706	21-Dec-13	ALEX122113 (1).SSF	571911.104	32707
722034.281	4294291.23	9646	21-Dec-13	ALEX122113 (1).SSF	571912.2771	32708
722033.696	4294291.816	9551	21-Dec-13	ALEX122113 (1).SSF	571913.238	32709
722033.137	4294292.419	9168	21-Dec-13	ALEX122113 (1).SSF	571914.2671	32710
722032.587	4294293.028	9102	21-Dec-13	ALEX122113 (1).SSF	571915.3169	32711
722031.962	4294293.564	9955	21-Dec-13	ALEX122113 (1).SSF	571916.291	32712
722031.416	4294294.122	9329	21-Dec-13	ALEX122113 (1).SSF	571917.313	32713
722030.901	4294294.751	9592	21-Dec-13	ALEX122113 (1).SSF	571918.301	32714
722030.392	4294295.37	9298	21-Dec-13	ALEX122113 (1).SSF	571919.269	32715
722029.918	4294296.012	9134	21-Dec-13	ALEX122113 (1).SSF	571920.293	32716
722029.49	4294296.7	7983	21-Dec-13	ALEX122113 (1).SSF	571921.241	32717
722028.995	4294297.47	8955	21-Dec-13	ALEX122113 (1).SSF	571922.3081	32718
722028.49	4294298.062	9528	21-Dec-13	ALEX122113 (1).SSF	571923.231	32719
722027.999	4294298.718	9402	21-Dec-13	ALEX122113 (1).SSF	571924.2949	32720
722027.637	4294299.301	9160	21-Dec-13	ALEX122113 (1).SSF	571925.1621	32721
722027.028	4294300.096	8350	21-Dec-13	ALEX122113 (1).SSF	571926.3069	32722
722026.64	4294300.653	9017	21-Dec-13	ALEX122113 (1).SSF	571927.188	32723
722026.196	4294301.443	7984	21-Dec-13	ALEX122113 (1).SSF	571928.2849	32724
722025.651	4294302.16	8386	21-Dec-13	ALEX122113 (1).SSF	571929.2729	32725
722025.029	4294302.827	8636	21-Dec-13	ALEX122113 (1).SSF	571930.282	32726
722024.494	4294303.503	8489	21-Dec-13	ALEX122113 (1).SSF	571931.249	32727
722024.025	4294304.267	9352	21-Dec-13	ALEX122113 (1).SSF	571932.2571	32728
722023.595	4294304.877	9328	21-Dec-13	ALEX122113 (1).SSF	571933.1201	32729
722023.139	4294305.563	9472	21-Dec-13	ALEX122113 (1).SSF	571934.3069	32730

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722022.704	4294306.153	8968	21-Dec-13	ALEX122113 (1).SSF	571935.301	32731
722022.038	4294306.842	8632	21-Dec-13	ALEX122113 (1).SSF	571936.3359	32732
722021.446	4294307.545	9148	21-Dec-13	ALEX122113 (1).SSF	571937.323	32733
722020.931	4294308.299	9037	21-Dec-13	ALEX122113 (1).SSF	571938.3579	32734
722020.418	4294308.897	8889	21-Dec-13	ALEX122113 (1).SSF	571939.27	32735
722019.882	4294309.419	9572	21-Dec-13	ALEX122113 (1).SSF	571940.187	32736
722019.43	4294309.995	9053	21-Dec-13	ALEX122113 (1).SSF	571941.113	32737
722018.997	4294310.883	10633	21-Dec-13	ALEX122113 (1).SSF	571942.1841	32738
722018.534	4294311.61	9888	21-Dec-13	ALEX122113 (1).SSF	571943.1731	32739
722017.933	4294312.28	10062	21-Dec-13	ALEX122113 (1).SSF	571944.1841	32740
722017.467	4294312.83	9235	21-Dec-13	ALEX122113 (1).SSF	571945.1289	32741
722017.026	4294313.468	9239	21-Dec-13	ALEX122113 (1).SSF	571946.291	32742
722016.501	4294313.964	8789	21-Dec-13	ALEX122113 (1).SSF	571947.2339	32743
722015.941	4294314.475	9277	21-Dec-13	ALEX122113 (1).SSF	571948.27	32744
722015.448	4294315.121	10179	21-Dec-13	ALEX122113 (1).SSF	571949.271	32745
722014.913	4294315.755	11004	21-Dec-13	ALEX122113 (1).SSF	571950.2991	32746
722014.467	4294316.317	9891	21-Dec-13	ALEX122113 (1).SSF	571951.3401	32747
722014.12	4294316.964	8532	21-Dec-13	ALEX122113 (1).SSF	571952.3601	32748
722013.746	4294317.498	9813	21-Dec-13	ALEX122113 (1).SSF	571953.3721	32749
722013.31	4294317.606	10643	21-Dec-13	ALEX122113 (1).SSF	571954.406	32750
722012.946	4294317.34	9530	21-Dec-13	ALEX122113 (1).SSF	571955.3181	32751
722012.602	4294317.001	10422	21-Dec-13	ALEX122113 (1).SSF	571956.2251	32752
722012.361	4294316.801	10315	21-Dec-13	ALEX122113 (1).SSF	571957.146	32753
722012.313	4294316.844	9989	21-Dec-13	ALEX122113 (1).SSF	571958.2109	32754
722012.306	4294316.934	9187	21-Dec-13	ALEX122113 (1).SSF	571959.187	32755
722012.313	4294316.801	9406	21-Dec-13	ALEX122113 (1).SSF	571960.3049	32756
722012.467	4294316.509	8471	21-Dec-13	ALEX122113 (1).SSF	571961.2261	32757
722012.865	4294315.978	10548	21-Dec-13	ALEX122113 (1).SSF	571962.251	32758
722013.284	4294315.378	8757	21-Dec-13	ALEX122113 (1).SSF	571963.1011	32759
722013.839	4294314.426	9929	21-Dec-13	ALEX122113 (1).SSF	571964.2571	32760
722014.335	4294313.713	9892	21-Dec-13	ALEX122113 (1).SSF	571965.2939	32761
722014.754	4294313.123	9463	21-Dec-13	ALEX122113 (1).SSF	571966.314	32762
722015.081	4294312.489	9565	21-Dec-13	ALEX122113 (1).SSF	571967.2051	32763
722015.52	4294311.568	9621	21-Dec-13	ALEX122113 (1).SSF	571968.313	32764
722015.962	4294310.88	8915	21-Dec-13	ALEX122113 (1).SSF	571969.2251	32765
722016.49	4294310.204	8918	21-Dec-13	ALEX122113 (1).SSF	571970.302	32766
722016.975	4294309.607	8619	21-Dec-13	ALEX122113 (1).SSF	571971.166	32767
722017.622	4294308.735	9265	21-Dec-13	ALEX122113 (1).SSF	571972.4131	32768
722017.988	4294308.242	8286	21-Dec-13	ALEX122113 (1).SSF	571973.1599	32769
722018.481	4294307.458	8581	21-Dec-13	ALEX122113 (1).SSF	571974.22	32770
722018.988	4294306.656	9255	21-Dec-13	ALEX122113 (1).SSF	571975.2891	32771
722019.55	4294305.946	10263	21-Dec-13	ALEX122113 (1).SSF	571976.2839	32772
722020.028	4294305.308	9646	21-Dec-13	ALEX122113 (1).SSF	571977.1919	32773
722020.575	4294304.397	10391	21-Dec-13	ALEX122113 (1).SSF	571978.2759	32774
722021.025	4294303.602	10458	21-Dec-13	ALEX122113 (1).SSF	571979.1731	32775
722021.669	4294302.74	8854	21-Dec-13	ALEX122113 (1).SSF	571980.272	32776
722022.283	4294302.126	9047	21-Dec-13	ALEX122113 (1).SSF	571981.2141	32777

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722022.843	4294301.468	9126	21-Dec-13	ALEX122113 (1).SSF	571982.1609	32778
722023.374	4294300.688	8821	21-Dec-13	ALEX122113 (1).SSF	571983.1699	32779
722023.93	4294300.054	9645	21-Dec-13	ALEX122113 (1).SSF	571984.147	32780
722024.521	4294299.517	9821	21-Dec-13	ALEX122113 (1).SSF	571985.1631	32781
722025.091	4294298.786	10225	21-Dec-13	ALEX122113 (1).SSF	571986.2219	32782
722025.541	4294298.193	9846	21-Dec-13	ALEX122113 (1).SSF	571987.0659	32783
722026.3	4294297.464	9151	21-Dec-13	ALEX122113 (1).SSF	571988.2671	32784
722026.822	4294296.852	8587	21-Dec-13	ALEX122113 (1).SSF	571989.2219	32785
722027.363	4294296.148	8807	21-Dec-13	ALEX122113 (1).SSF	571990.26	32786
722027.929	4294295.563	8471	21-Dec-13	ALEX122113 (1).SSF	571991.145	32787
722028.581	4294294.928	8178	21-Dec-13	ALEX122113 (1).SSF	571992.2151	32788
722029.093	4294294.202	8044	21-Dec-13	ALEX122113 (1).SSF	571993.1831	32789
722029.656	4294293.432	8281	21-Dec-13	ALEX122113 (1).SSF	571994.248	32790
722030.271	4294292.768	8370	21-Dec-13	ALEX122113 (1).SSF	571995.2949	32791
722030.892	4294292.05	8902	21-Dec-13	ALEX122113 (1).SSF	571996.3081	32792
722031.439	4294291.356	9545	21-Dec-13	ALEX122113 (1).SSF	571997.2261	32793
722032.084	4294290.562	9106	21-Dec-13	ALEX122113 (1).SSF	571998.344	32794
722032.561	4294290	8966	21-Dec-13	ALEX122113 (1).SSF	571999.231	32795
722033.114	4294289.258	8901	21-Dec-13	ALEX122113 (1).SSF	572000.271	32796
722033.568	4294288.579	9545	21-Dec-13	ALEX122113 (1).SSF	572001.178	32797
722034.35	4294287.791	10696	21-Dec-13	ALEX122113 (1).SSF	572002.415	32798
722034.842	4294287.404	9694	21-Dec-13	ALEX122113 (1).SSF	572003.1541	32799
722035.593	4294286.559	9653	21-Dec-13	ALEX122113 (1).SSF	572004.3469	32800
722036.002	4294285.956	10063	21-Dec-13	ALEX122113 (1).SSF	572005.106	32801
722036.633	4294285.174	11036	21-Dec-13	ALEX122113 (1).SSF	572006.252	32802
722037.266	4294284.597	9119	21-Dec-13	ALEX122113 (1).SSF	572007.1589	32803
722037.849	4294283.917	9119	21-Dec-13	ALEX122113 (1).SSF	572008.231	32804
722038.331	4294283.311	8940	21-Dec-13	ALEX122113 (1).SSF	572009.084	32805
722039.214	4294282.469	8595	21-Dec-13	ALEX122113 (1).SSF	572010.304	32806
722039.855	4294281.804	9288	21-Dec-13	ALEX122113 (1).SSF	572011.3379	32807
722040.435	4294281.167	8832	21-Dec-13	ALEX122113 (1).SSF	572012.342	32808
722041.016	4294280.611	8598	21-Dec-13	ALEX122113 (1).SSF	572013.2109	32809
722041.77	4294279.842	10009	21-Dec-13	ALEX122113 (1).SSF	572014.365	32810
722042.284	4294279.171	10602	21-Dec-13	ALEX122113 (1).SSF	572015.322	32811
722042.946	4294278.462	9130	21-Dec-13	ALEX122113 (1).SSF	572016.3279	32812
722043.532	4294277.98	10202	21-Dec-13	ALEX122113 (1).SSF	572017.158	32813
722044.295	4294277.186	9780	21-Dec-13	ALEX122113 (1).SSF	572018.3521	32814
722044.725	4294276.582	8925	21-Dec-13	ALEX122113 (1).SSF	572019.1321	32815
722045.263	4294275.872	8471	21-Dec-13	ALEX122113 (1).SSF	572020.127	32816
722045.924	4294275.254	8298	21-Dec-13	ALEX122113 (1).SSF	572021.075	32817
722046.591	4294274.631	9244	21-Dec-13	ALEX122113 (1).SSF	572022.137	32818
722047.191	4294274.01	7861	21-Dec-13	ALEX122113 (1).SSF	572023.0769	32819
722047.859	4294273.239	7845	21-Dec-13	ALEX122113 (1).SSF	572024.2119	32820
722048.497	4294272.645	7031	21-Dec-13	ALEX122113 (1).SSF	572025.269	32821
722049.043	4294272.095	7428	21-Dec-13	ALEX122113 (1).SSF	572026.3049	32822
722049.509	4294271.458	8667	21-Dec-13	ALEX122113 (1).SSF	572027.2781	32823
722050.041	4294270.759	8976	21-Dec-13	ALEX122113 (1).SSF	572028.3101	32824

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722050.67	4294270.129	8844	21-Dec-13	ALEX122113 (1).SSF	572029.3459	32825
722051.147	4294269.513	9201	21-Dec-13	ALEX122113 (1).SSF	572030.2971	32826
722051.52	4294268.813	9050	21-Dec-13	ALEX122113 (1).SSF	572031.2771	32827
722052.081	4294268.059	9762	21-Dec-13	ALEX122113 (1).SSF	572032.292	32828
722052.866	4294267.314	9070	21-Dec-13	ALEX122113 (1).SSF	572033.2209	32829
722053.643	4294266.47	9257	21-Dec-13	ALEX122113 (1).SSF	572034.2429	32830
722054.233	4294265.568	9124	21-Dec-13	ALEX122113 (1).SSF	572035.27	32831
722054.74	4294264.854	9331	21-Dec-13	ALEX122113 (1).SSF	572036.1819	32832
722055.337	4294264.303	8482	21-Dec-13	ALEX122113 (1).SSF	572037.2109	32833
722055.711	4294263.905	8180	21-Dec-13	ALEX122113 (1).SSF	572038.2329	32834
722055.829	4294263.721	7925	21-Dec-13	ALEX122113 (1).SSF	572039.2329	32835
722055.894	4294263.704	8641	21-Dec-13	ALEX122113 (1).SSF	572040.269	32836
722056.18	4294263.591	8460	21-Dec-13	ALEX122113 (1).SSF	572041.186	32837
722056.329	4294263.516	8895	21-Dec-13	ALEX122113 (1).SSF	572042.3259	32838
722056.362	4294263.482	8073	21-Dec-13	ALEX122113 (1).SSF	572043.187	32839
722056.361	4294263.489	7988	21-Dec-13	ALEX122113 (1).SSF	572044.3989	32840
722056.363	4294263.472	7517	21-Dec-13	ALEX122113 (1).SSF	572045.105	32841
722056.413	4294263.292	8359	21-Dec-13	ALEX122113 (1).SSF	572046.2539	32842
722056.596	4294262.946	9349	21-Dec-13	ALEX122113 (1).SSF	572047.2871	32843
722056.946	4294262.52	8727	21-Dec-13	ALEX122113 (1).SSF	572048.2471	32844
722057.331	4294262.092	9352	21-Dec-13	ALEX122113 (1).SSF	572049.1001	32845
722057.848	4294261.382	7888	21-Dec-13	ALEX122113 (1).SSF	572050.2791	32846
722058.186	4294260.726	9172	21-Dec-13	ALEX122113 (1).SSF	572051.2419	32847
722058.656	4294260.005	8593	21-Dec-13	ALEX122113 (1).SSF	572052.2439	32848
722059.398	4294259.307	8778	21-Dec-13	ALEX122113 (1).SSF	572053.2339	32849
722060.044	4294258.852	8344	21-Dec-13	ALEX122113 (1).SSF	572054.2561	32850
722060.057	4294258.669	8836	21-Dec-13	ALEX122113 (1).SSF	572055.0649	32851
722059.896	4294258.534	7909	21-Dec-13	ALEX122113 (1).SSF	572056.2791	32852
722059.898	4294258.459	8277	21-Dec-13	ALEX122113 (1).SSF	572057.136	32853
722059.984	4294258.403	7739	21-Dec-13	ALEX122113 (1).SSF	572058.2209	32854
722060.054	4294258.382	8775	21-Dec-13	ALEX122113 (1).SSF	572059.125	32855
722059.985	4294258.284	8133	21-Dec-13	ALEX122113 (1).SSF	572060.259	32856
722059.871	4294258.114	8363	21-Dec-13	ALEX122113 (1).SSF	572061.2329	32857
722059.545	4294257.748	8330	21-Dec-13	ALEX122113 (1).SSF	572062.2871	32858
722059.102	4294257.465	7692	21-Dec-13	ALEX122113 (1).SSF	572063.2371	32859
722058.68	4294257.166	8343	21-Dec-13	ALEX122113 (1).SSF	572064.283	32860
722058.497	4294256.941	9495	21-Dec-13	ALEX122113 (1).SSF	572065.302	32861
722058.53	4294256.934	8763	21-Dec-13	ALEX122113 (1).SSF	572066.2971	32862
722058.604	4294256.999	8341	21-Dec-13	ALEX122113 (1).SSF	572067.126	32863
722058.631	4294257.036	9375	21-Dec-13	ALEX122113 (1).SSF	572068.2949	32864
722058.656	4294257.085	7533	21-Dec-13	ALEX122113 (1).SSF	572069.147	32865
722058.734	4294257.167	8423	21-Dec-13	ALEX122113 (1).SSF	572070.252	32866
722058.776	4294257.183	7716	21-Dec-13	ALEX122113 (1).SSF	572071.2571	32867
722058.813	4294257.201	8679	21-Dec-13	ALEX122113 (1).SSF	572072.2849	32868
722058.844	4294257.214	9549	21-Dec-13	ALEX122113 (1).SSF	572073.228	32869
722058.842	4294257.207	8087	21-Dec-13	ALEX122113 (1).SSF	572074.2439	32870
722058.776	4294257.159	8351	21-Dec-13	ALEX122113 (1).SSF	572075.0549	32871

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722058.741	4294257.009	8568	21-Dec-13	ALEX122113 (1).SSF	572076.241	32872
722058.788	4294256.973	8472	21-Dec-13	ALEX122113 (1).SSF	572077.0481	32873
722058.767	4294257.109	7878	21-Dec-13	ALEX122113 (1).SSF	572078.1841	32874
722058.748	4294257.156	8299	21-Dec-13	ALEX122113 (1).SSF	572079.0181	32875
722058.751	4294257.311	7834	21-Dec-13	ALEX122113 (1).SSF	572080.2629	32876
722058.693	4294257.491	8558	21-Dec-13	ALEX122113 (1).SSF	572081.157	32877
722058.592	4294257.556	8139	21-Dec-13	ALEX122113 (1).SSF	572082.303	32878
722058.618	4294257.44	8365	21-Dec-13	ALEX122113 (1).SSF	572083.0171	32879
722058.564	4294257.436	8271	21-Dec-13	ALEX122113 (1).SSF	572084.2009	32880
722058.529	4294257.591	7917	21-Dec-13	ALEX122113 (1).SSF	572085.144	32881
722058.541	4294257.639	8009	21-Dec-13	ALEX122113 (1).SSF	572086.303	32882
722058.539	4294257.676	6712	21-Dec-13	ALEX122113 (1).SSF	572087.2041	32883
722058.542	4294257.729	6852	21-Dec-13	ALEX122113 (1).SSF	572088.261	32884
722058.498	4294257.802	7833	21-Dec-13	ALEX122113 (1).SSF	572089.1179	32885
722058.207	4294258.091	7628	21-Dec-13	ALEX122113 (1).SSF	572090.2859	32886
722057.856	4294258.42	7697	21-Dec-13	ALEX122113 (1).SSF	572091.105	32887
722057.211	4294259.141	7204	21-Dec-13	ALEX122113 (1).SSF	572092.324	32888
722056.814	4294259.65	9121	21-Dec-13	ALEX122113 (1).SSF	572093.062	32889
722056.014	4294260.416	8700	21-Dec-13	ALEX122113 (1).SSF	572094.3159	32890
722055.527	4294260.881	8175	21-Dec-13	ALEX122113 (1).SSF	572095.1079	32891
722055.25	4294261.506	8883	21-Dec-13	ALEX122113 (1).SSF	572096.281	32892
722055.18	4294261.726	8521	21-Dec-13	ALEX122113 (1).SSF	572097.0649	32893
722055.095	4294261.665	7830	21-Dec-13	ALEX122113 (1).SSF	572098.322	32894
722055.103	4294261.635	7567	21-Dec-13	ALEX122113 (1).SSF	572099.0801	32895
722055.052	4294261.654	9512	21-Dec-13	ALEX122113 (1).SSF	572100.2871	32896
722054.894	4294261.817	8798	21-Dec-13	ALEX122113 (1).SSF	572101.155	32897
722054.491	4294262.318	7659	21-Dec-13	ALEX122113 (1).SSF	572102.2639	32898
722054.023	4294262.891	8635	21-Dec-13	ALEX122113 (1).SSF	572103.1509	32899
722053.431	4294263.52	7918	21-Dec-13	ALEX122113 (1).SSF	572104.156	32900
722052.853	4294263.927	9029	21-Dec-13	ALEX122113 (1).SSF	572105.0061	32901
722052.015	4294264.709	8947	21-Dec-13	ALEX122113 (1).SSF	572106.2859	32902
722051.661	4294265.217	9046	21-Dec-13	ALEX122113 (1).SSF	572106.9839	32903
722051.069	4294266.063	8771	21-Dec-13	ALEX122113 (1).SSF	572108.1589	32904
722050.657	4294266.544	7863	21-Dec-13	ALEX122113 (1).SSF	572108.9961	32905
722050.075	4294267.27	8385	21-Dec-13	ALEX122113 (1).SSF	572110.0859	32906
722049.597	4294268.019	8906	21-Dec-13	ALEX122113 (1).SSF	572111.0371	32907
722048.926	4294268.745	8316	21-Dec-13	ALEX122113 (1).SSF	572112.1631	32908
722048.284	4294269.215	7959	21-Dec-13	ALEX122113 (1).SSF	572113.1631	32909
722047.74	4294269.75	7179	21-Dec-13	ALEX122113 (1).SSF	572114.094	32910
722047.256	4294270.441	8275	21-Dec-13	ALEX122113 (1).SSF	572115.113	32911
722046.621	4294271.113	7888	21-Dec-13	ALEX122113 (1).SSF	572116.1521	32912
722046.011	4294271.687	7732	21-Dec-13	ALEX122113 (1).SSF	572117.1709	32913
722045.425	4294272.431	8203	21-Dec-13	ALEX122113 (1).SSF	572118.2649	32914
722044.902	4294273.111	8530	21-Dec-13	ALEX122113 (1).SSF	572119.1841	32915
722044.226	4294273.862	7922	21-Dec-13	ALEX122113 (1).SSF	572120.2739	32916
722043.716	4294274.429	8880	21-Dec-13	ALEX122113 (1).SSF	572121.137	32917
722043.188	4294275.079	8310	21-Dec-13	ALEX122113 (1).SSF	572122.1399	32918

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722042.579	4294275.712	8257	21-Dec-13	ALEX122113 (1).SSF	572123.1179	32919
722042.053	4294276.372	8514	21-Dec-13	ALEX122113 (1).SSF	572124.2009	32920
722041.708	4294276.984	9328	21-Dec-13	ALEX122113 (1).SSF	572125.157	32921
722041.219	4294277.614	8842	21-Dec-13	ALEX122113 (1).SSF	572126.134	32922
722040.699	4294278.139	8690	21-Dec-13	ALEX122113 (1).SSF	572127.0769	32923
722040.186	4294278.807	8802	21-Dec-13	ALEX122113 (1).SSF	572128.136	32924
722039.743	4294279.483	9130	21-Dec-13	ALEX122113 (1).SSF	572129.0649	32925
722039.118	4294280.176	8252	21-Dec-13	ALEX122113 (1).SSF	572130.272	32926
722038.781	4294280.592	7883	21-Dec-13	ALEX122113 (1).SSF	572131.0171	32927
722038.352	4294281.276	7970	21-Dec-13	ALEX122113 (1).SSF	572132.106	32928
722037.767	4294281.856	8052	21-Dec-13	ALEX122113 (1).SSF	572133.041	32929
722037.186	4294282.485	7713	21-Dec-13	ALEX122113 (1).SSF	572134.2251	32930
722036.892	4294282.976	7898	21-Dec-13	ALEX122113 (1).SSF	572135.0061	32931
722036.217	4294283.822	8214	21-Dec-13	ALEX122113 (1).SSF	572136.231	32932
722035.683	4294284.33	8263	21-Dec-13	ALEX122113 (1).SSF	572137.0581	32933
722034.964	4294285.088	9206	21-Dec-13	ALEX122113 (1).SSF	572138.22	32934
722034.516	4294285.631	9081	21-Dec-13	ALEX122113 (1).SSF	572139.1299	32935
722033.792	4294286.309	9230	21-Dec-13	ALEX122113 (1).SSF	572140.2671	32936
722033.288	4294286.855	9327	21-Dec-13	ALEX122113 (1).SSF	572141.1111	32937
722032.709	4294287.538	8662	21-Dec-13	ALEX122113 (1).SSF	572142.2739	32938
722032.241	4294288.009	10145	21-Dec-13	ALEX122113 (1).SSF	572143.0291	32939
722031.616	4294288.837	9796	21-Dec-13	ALEX122113 (1).SSF	572144.2681	32940
722031.259	4294289.405	9679	21-Dec-13	ALEX122113 (1).SSF	572145.0879	32941
722030.653	4294290.217	9409	21-Dec-13	ALEX122113 (1).SSF	572146.2339	32942
722030.273	4294290.729	9042	21-Dec-13	ALEX122113 (1).SSF	572147.073	32943
722029.675	4294291.518	9670	21-Dec-13	ALEX122113 (1).SSF	572148.2549	32944
722029.227	4294292.084	9797	21-Dec-13	ALEX122113 (1).SSF	572149.0129	32945
722028.648	4294292.829	9439	21-Dec-13	ALEX122113 (1).SSF	572150.198	32946
722028.306	4294293.434	9409	21-Dec-13	ALEX122113 (1).SSF	572151.0701	32947
722027.807	4294294.26	8022	21-Dec-13	ALEX122113 (1).SSF	572152.325	32948
722027.401	4294294.688	7615	21-Dec-13	ALEX122113 (1).SSF	572153.0669	32949
722026.718	4294295.435	9374	21-Dec-13	ALEX122113 (1).SSF	572154.219	32950
722026.3	4294295.967	8463	21-Dec-13	ALEX122113 (1).SSF	572155.085	32951
722025.483	4294296.72	9015	21-Dec-13	ALEX122113 (1).SSF	572156.283	32952
722024.97	4294297.249	7983	21-Dec-13	ALEX122113 (1).SSF	572157.05	32953
722024.293	4294298.018	9346	21-Dec-13	ALEX122113 (1).SSF	572158.2991	32954
722023.81	4294298.328	9296	21-Dec-13	ALEX122113 (1).SSF	572159.0449	32955
722023.213	4294298.913	8444	21-Dec-13	ALEX122113 (1).SSF	572160.2959	32956
722022.898	4294299.385	8291	21-Dec-13	ALEX122113 (1).SSF	572161.0291	32957
722022.474	4294300.173	9902	21-Dec-13	ALEX122113 (1).SSF	572162.271	32958
722022.269	4294300.683	9045	21-Dec-13	ALEX122113 (1).SSF	572163.0349	32959
722021.8	4294301.411	9281	21-Dec-13	ALEX122113 (1).SSF	572164.1121	32960
722021.26	4294301.994	8620	21-Dec-13	ALEX122113 (1).SSF	572165.1011	32961
722020.641	4294302.801	7915	21-Dec-13	ALEX122113 (1).SSF	572166.2759	32962
722020.223	4294303.534	8848	21-Dec-13	ALEX122113 (1).SSF	572167.179	32963
722019.64	4294304.285	8962	21-Dec-13	ALEX122113 (1).SSF	572168.2141	32964
722019.163	4294304.792	8660	21-Dec-13	ALEX122113 (1).SSF	572169.0581	32965

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722018.585	4294305.689	8585	21-Dec-13	ALEX122113 (1).SSF	572170.2759	32966
722018.104	4294306.338	9766	21-Dec-13	ALEX122113 (1).SSF	572171.1379	32967
722017.545	4294306.939	8621	21-Dec-13	ALEX122113 (1).SSF	572172.1011	32968
722016.972	4294307.605	8455	21-Dec-13	ALEX122113 (1).SSF	572173.1499	32969
722016.446	4294308.235	8864	21-Dec-13	ALEX122113 (1).SSF	572174.1211	32970
722015.755	4294308.865	9656	21-Dec-13	ALEX122113 (1).SSF	572175.0779	32971
722015.143	4294309.529	9854	21-Dec-13	ALEX122113 (1).SSF	572176.0991	32972
722014.71	4294310.217	7953	21-Dec-13	ALEX122113 (1).SSF	572177.0381	32973
722014.16	4294311.048	8708	21-Dec-13	ALEX122113 (1).SSF	572178.27	32974
722013.72	4294311.577	8207	21-Dec-13	ALEX122113 (1).SSF	572179.1489	32975
722013.129	4294312.345	9371	21-Dec-13	ALEX122113 (1).SSF	572180.2791	32976
722012.703	4294312.922	8643	21-Dec-13	ALEX122113 (1).SSF	572181.125	32977
722011.983	4294313.612	8340	21-Dec-13	ALEX122113 (1).SSF	572182.2529	32978
722011.519	4294314.09	9435	21-Dec-13	ALEX122113 (1).SSF	572183.124	32979
722011.072	4294314.662	8208	21-Dec-13	ALEX122113 (1).SSF	572184.1479	32980
722010.515	4294315.25	8112	21-Dec-13	ALEX122113 (1).SSF	572185.0701	32981
722009.869	4294315.803	9678	21-Dec-13	ALEX122113 (1).SSF	572186.2241	32982
722009.324	4294315.957	9199	21-Dec-13	ALEX122113 (1).SSF	572187.137	32983
722008.763	4294315.719	8089	21-Dec-13	ALEX122113 (1).SSF	572188.178	32984
722008.776	4294315.38	8892	21-Dec-13	ALEX122113 (1).SSF	572189.228	32985
722008.985	4294315.113	9933	21-Dec-13	ALEX122113 (1).SSF	572190.259	32986
722009.231	4294314.856	8933	21-Dec-13	ALEX122113 (1).SSF	572191.073	32987
722009.629	4294314.341	8863	21-Dec-13	ALEX122113 (1).SSF	572192.3149	32988
722009.91	4294313.92	8336	21-Dec-13	ALEX122113 (1).SSF	572193.1121	32989
722010.397	4294313.256	8174	21-Dec-13	ALEX122113 (1).SSF	572194.1851	32990
722010.868	4294312.73	8763	21-Dec-13	ALEX122113 (1).SSF	572195.1421	32991
722011.334	4294312.18	8340	21-Dec-13	ALEX122113 (1).SSF	572196.095	32992
722011.888	4294311.56	8625	21-Dec-13	ALEX122113 (1).SSF	572197.062	32993
722012.52	4294310.886	8186	21-Dec-13	ALEX122113 (1).SSF	572198.2729	32994
722012.92	4294310.282	8826	21-Dec-13	ALEX122113 (1).SSF	572199.105	32995
722013.469	4294309.366	10066	21-Dec-13	ALEX122113 (1).SSF	572200.2661	32996
722013.968	4294308.782	10106	21-Dec-13	ALEX122113 (1).SSF	572201.1121	32997
722014.697	4294307.978	10656	21-Dec-13	ALEX122113 (1).SSF	572202.2791	32998
722015.123	4294307.412	9054	21-Dec-13	ALEX122113 (1).SSF	572203.1079	32999
722015.849	4294306.509	8353	21-Dec-13	ALEX122113 (1).SSF	572204.2971	33000
722016.354	4294305.946	9078	21-Dec-13	ALEX122113 (1).SSF	572205.1201	33001
722017.003	4294305.111	9439	21-Dec-13	ALEX122113 (1).SSF	572206.2439	33002
722017.453	4294304.439	9559	21-Dec-13	ALEX122113 (1).SSF	572207.093	33003
722018.071	4294303.641	8570	21-Dec-13	ALEX122113 (1).SSF	572208.252	33004
722018.527	4294303.093	8742	21-Dec-13	ALEX122113 (1).SSF	572209.1011	33005
722019.018	4294302.439	8965	21-Dec-13	ALEX122113 (1).SSF	572210.062	33006
722019.578	4294301.623	9141	21-Dec-13	ALEX122113 (1).SSF	572211.043	33007
722020.227	4294300.849	8465	21-Dec-13	ALEX122113 (1).SSF	572212.0859	33008
722020.863	4294300.112	9436	21-Dec-13	ALEX122113 (1).SSF	572213.103	33009
722021.41	4294299.444	9019	21-Dec-13	ALEX122113 (1).SSF	572214.1831	33010
722021.9	4294298.96	9934	21-Dec-13	ALEX122113 (1).SSF	572215.0281	33011
722022.915	4294297.684	9073	21-Dec-13	ALEX122113 (1).SSF	572217.0681	33013

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722023.549	4294297.018	7638	21-Dec-13	ALEX122113 (1).SSF	572218.241	33014
722023.913	4294296.642	8689	21-Dec-13	ALEX122113 (1).SSF	572219.0081	33015
722024.416	4294295.76	8382	21-Dec-13	ALEX122113 (1).SSF	572220.2329	33016
722024.768	4294295.121	8815	21-Dec-13	ALEX122113 (1).SSF	572221.084	33017
722025.333	4294294.388	9584	21-Dec-13	ALEX122113 (1).SSF	572222.2151	33018
722025.81	4294293.702	9266	21-Dec-13	ALEX122113 (1).SSF	572223.084	33019
722026.498	4294292.72	9246	21-Dec-13	ALEX122113 (1).SSF	572224.251	33020
722027.027	4294292.164	8941	21-Dec-13	ALEX122113 (1).SSF	572225.0601	33021
722027.792	4294291.465	9135	21-Dec-13	ALEX122113 (1).SSF	572226.1331	33022
722028.326	4294290.875	8403	21-Dec-13	ALEX122113 (1).SSF	572227.1021	33023
722028.921	4294290.146	8611	21-Dec-13	ALEX122113 (1).SSF	572228.1809	33024
722029.393	4294289.534	9202	21-Dec-13	ALEX122113 (1).SSF	572229.158	33025
722029.744	4294288.937	9800	21-Dec-13	ALEX122113 (1).SSF	572230.0649	33026
722030.247	4294288.254	9620	21-Dec-13	ALEX122113 (1).SSF	572231.042	33027
722030.877	4294287.628	9215	21-Dec-13	ALEX122113 (1).SSF	572232.1411	33028
722031.328	4294286.972	8753	21-Dec-13	ALEX122113 (1).SSF	572233.03	33029
722032.182	4294285.913	8668	21-Dec-13	ALEX122113 (1).SSF	572234.175	33030
722032.863	4294285.274	9007	21-Dec-13	ALEX122113 (1).SSF	572235.1079	33031
722033.418	4294284.704	9901	21-Dec-13	ALEX122113 (1).SSF	572236.2991	33032
722033.827	4294284.242	9225	21-Dec-13	ALEX122113 (1).SSF	572237.1079	33033
722034.522	4294283.446	8966	21-Dec-13	ALEX122113 (1).SSF	572238.0759	33034
722035.038	4294282.811	7461	21-Dec-13	ALEX122113 (1).SSF	572239.1289	33035
722035.48	4294282.14	7955	21-Dec-13	ALEX122113 (1).SSF	572240.125	33036
722035.978	4294281.443	8018	21-Dec-13	ALEX122113 (1).SSF	572241.011	33037
722036.71	4294280.698	7824	21-Dec-13	ALEX122113 (1).SSF	572242.0879	33038
722037.34	4294280.009	7356	21-Dec-13	ALEX122113 (1).SSF	572243.0259	33039
722037.949	4294279.144	6969	21-Dec-13	ALEX122113 (1).SSF	572244.2329	33040
722038.572	4294278.424	7622	21-Dec-13	ALEX122113 (1).SSF	572245.156	33041
722039.208	4294277.713	8355	21-Dec-13	ALEX122113 (1).SSF	572246.24	33042
722039.783	4294277.056	7998	21-Dec-13	ALEX122113 (1).SSF	572247.209	33043
722040.372	4294276.389	7879	21-Dec-13	ALEX122113 (1).SSF	572248.1699	33044
722040.97	4294275.832	8270	21-Dec-13	ALEX122113 (1).SSF	572249.042	33045
722041.702	4294275.165	9087	21-Dec-13	ALEX122113 (1).SSF	572250.187	33046
722042.067	4294274.698	8392	21-Dec-13	ALEX122113 (1).SSF	572250.9851	33047
722042.697	4294273.832	8548	21-Dec-13	ALEX122113 (1).SSF	572252.2429	33048
722043.141	4294273.296	8647	21-Dec-13	ALEX122113 (1).SSF	572253.053	33049
722043.834	4294272.551	7951	21-Dec-13	ALEX122113 (1).SSF	572254.177	33050
722044.431	4294271.884	10447	21-Dec-13	ALEX122113 (1).SSF	572255.0439	33051
722045.067	4294271.201	8162	21-Dec-13	ALEX122113 (1).SSF	572256.115	33052
722045.541	4294270.623	7920	21-Dec-13	ALEX122113 (1).SSF	572256.988	33053
722046.297	4294269.567	8400	21-Dec-13	ALEX122113 (1).SSF	572258.2	33054
722046.791	4294268.972	7710	21-Dec-13	ALEX122113 (1).SSF	572258.9729	33055
722047.59	4294268.211	8887	21-Dec-13	ALEX122113 (1).SSF	572260.1841	33056
722048.071	4294267.701	8012	21-Dec-13	ALEX122113 (1).SSF	572261.063	33057
722048.673	4294267.033	7793	21-Dec-13	ALEX122113 (1).SSF	572262.0779	33058
722049.197	4294266.406	8878	21-Dec-13	ALEX122113 (1).SSF	572263.0381	33059
722049.794	4294265.502	8939	21-Dec-13	ALEX122113 (1).SSF	572264.282	33060

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722050.311	4294264.865	8625	21-Dec-13	ALEX122113 (1).SSF	572265.1951	33061
722050.805	4294264.398	8636	21-Dec-13	ALEX122113 (1).SSF	572266.094	33062
722051.324	4294263.885	9029	21-Dec-13	ALEX122113 (1).SSF	572267.0691	33063
722051.851	4294263.112	9487	21-Dec-13	ALEX122113 (1).SSF	572268.1599	33064
722052.419	4294262.317	7801	21-Dec-13	ALEX122113 (1).SSF	572269.0281	33065
722053.355	4294261.315	7470	21-Dec-13	ALEX122113 (1).SSF	572270.209	33066
722053.939	4294260.648	7057	21-Dec-13	ALEX122113 (1).SSF	572271.0449	33067
722054.668	4294259.903	6294	21-Dec-13	ALEX122113 (1).SSF	572272.1899	33068
722055.215	4294259.486	6373	21-Dec-13	ALEX122113 (1).SSF	572273.021	33069
722055.93	4294258.776	6183	21-Dec-13	ALEX122113 (1).SSF	572274.02	33070
722056.633	4294258.017	6645	21-Dec-13	ALEX122113 (1).SSF	572275.0869	33071
722057.289	4294257.425	7511	21-Dec-13	ALEX122113 (1).SSF	572276.0801	33072
722057.853	4294256.914	7728	21-Dec-13	ALEX122113 (1).SSF	572277.075	33073
722058.19	4294256.431	7722	21-Dec-13	ALEX122113 (1).SSF	572278.0959	33074
722058.431	4294256.079	7390	21-Dec-13	ALEX122113 (1).SSF	572279.0901	33075
722058.681	4294255.947	8267	21-Dec-13	ALEX122113 (1).SSF	572280.1431	33076
722058.797	4294255.914	8036	21-Dec-13	ALEX122113 (1).SSF	572281.0559	33077
722058.651	4294255.707	7319	21-Dec-13	ALEX122113 (1).SSF	572282.1421	33078
722058.529	4294255.427	7950	21-Dec-13	ALEX122113 (1).SSF	572283.0549	33079
722058.248	4294254.91	6487	21-Dec-13	ALEX122113 (1).SSF	572284.2229	33080
722057.962	4294254.459	6301	21-Dec-13	ALEX122113 (1).SSF	572285.1079	33081
722057.7	4294253.974	6225	21-Dec-13	ALEX122113 (1).SSF	572286.1721	33082
722057.642	4294253.962	6656	21-Dec-13	ALEX122113 (1).SSF	572287.0801	33083
722057.415	4294254.012	6884	21-Dec-13	ALEX122113 (1).SSF	572288.075	33084
722057.228	4294253.934	6461	21-Dec-13	ALEX122113 (1).SSF	572289.0271	33085
722057.122	4294253.935	6475	21-Dec-13	ALEX122113 (1).SSF	572290.092	33086
722057.141	4294253.878	6298	21-Dec-13	ALEX122113 (1).SSF	572291.0601	33087
722057.172	4294253.886	5774	21-Dec-13	ALEX122113 (1).SSF	572292.1489	33088
722057.176	4294253.912	7610	21-Dec-13	ALEX122113 (1).SSF	572293.0149	33089
722057.157	4294253.893	6882	21-Dec-13	ALEX122113 (1).SSF	572294.1221	33090
722057.109	4294253.866	7150	21-Dec-13	ALEX122113 (1).SSF	572295.0601	33091
722057.022	4294253.826	6797	21-Dec-13	ALEX122113 (1).SSF	572296.0449	33092
722056.939	4294253.866	6469	21-Dec-13	ALEX122113 (1).SSF	572297.041	33093
722056.862	4294254.079	7527	21-Dec-13	ALEX122113 (1).SSF	572298.064	33094
722056.781	4294254.297	6652	21-Dec-13	ALEX122113 (1).SSF	572298.968	33095
722056.398	4294254.733	7033	21-Dec-13	ALEX122113 (1).SSF	572300.062	33096
722055.879	4294255.259	6267	21-Dec-13	ALEX122113 (1).SSF	572301.0039	33097
722055.308	4294255.731	7537	21-Dec-13	ALEX122113 (1).SSF	572302.0391	33098
722054.875	4294256.226	6384	21-Dec-13	ALEX122113 (1).SSF	572302.9861	33099
722054.395	4294256.901	6039	21-Dec-13	ALEX122113 (1).SSF	572304.019	33100
722053.874	4294257.324	6554	21-Dec-13	ALEX122113 (1).SSF	572304.9839	33101
722053.283	4294257.875	6618	21-Dec-13	ALEX122113 (1).SSF	572306.123	33102
722052.943	4294258.46	6334	21-Dec-13	ALEX122113 (1).SSF	572307.0129	33103
722052.471	4294259.012	6743	21-Dec-13	ALEX122113 (1).SSF	572308.009	33104
722051.95	4294259.538	7086	21-Dec-13	ALEX122113 (1).SSF	572308.946	33105
722051.404	4294260.259	7771	21-Dec-13	ALEX122113 (1).SSF	572310.1379	33106
722050.885	4294260.718	6922	21-Dec-13	ALEX122113 (1).SSF	572311.0291	33107

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722050.267	4294261.28	6710	21-Dec-13	ALEX122113 (1).SSF	572312.158	33108
722049.93	4294261.689	6957	21-Dec-13	ALEX122113 (1).SSF	572313.031	33109
722049.3	4294262.216	7739	21-Dec-13	ALEX122113 (1).SSF	572314.0659	33110
722048.705	4294262.841	7485	21-Dec-13	ALEX122113 (1).SSF	572315.1831	33111
722048.33	4294263.447	8771	21-Dec-13	ALEX122113 (1).SSF	572316.1311	33112
722047.781	4294264.081	6662	21-Dec-13	ALEX122113 (1).SSF	572317.1011	33113
722047.228	4294264.639	6855	21-Dec-13	ALEX122113 (1).SSF	572318.105	33114
722046.805	4294265.22	6423	21-Dec-13	ALEX122113 (1).SSF	572319.093	33115
722046.263	4294265.914	8866	21-Dec-13	ALEX122113 (1).SSF	572320.2009	33116
722045.881	4294266.376	8816	21-Dec-13	ALEX122113 (1).SSF	572321.063	33117
722045.504	4294267.006	7214	21-Dec-13	ALEX122113 (1).SSF	572322.083	33118
722044.976	4294267.688	8313	21-Dec-13	ALEX122113 (1).SSF	572323.1599	33119
722044.457	4294268.087	8168	21-Dec-13	ALEX122113 (1).SSF	572324.0271	33120
722043.861	4294268.647	7652	21-Dec-13	ALEX122113 (1).SSF	572325.011	33121
722043.368	4294269.423	8003	21-Dec-13	ALEX122113 (1).SSF	572326.134	33122
722042.895	4294269.891	6350	21-Dec-13	ALEX122113 (1).SSF	572326.9709	33123
722042.283	4294270.525	6507	21-Dec-13	ALEX122113 (1).SSF	572328.0879	33124
722041.96	4294271.031	7747	21-Dec-13	ALEX122113 (1).SSF	572328.9221	33125
722041.303	4294271.705	7576	21-Dec-13	ALEX122113 (1).SSF	572330.147	33126
722040.931	4294272.131	8434	21-Dec-13	ALEX122113 (1).SSF	572331.01	33127
722040.782	4294272.569	7118	21-Dec-13	ALEX122113 (1).SSF	572332.168	33128
722040.724	4294272.751	7449	21-Dec-13	ALEX122113 (1).SSF	572333.1179	33129
722040.635	4294272.74	8372	21-Dec-13	ALEX122113 (1).SSF	572334.2019	33130
722040.566	4294272.711	7463	21-Dec-13	ALEX122113 (1).SSF	572335.0991	33131
722040.438	4294272.782	7205	21-Dec-13	ALEX122113 (1).SSF	572336.2219	33132
722040.312	4294273.009	6301	21-Dec-13	ALEX122113 (1).SSF	572337.0391	33133
722040.045	4294273.505	7875	21-Dec-13	ALEX122113 (1).SSF	572338.1699	33134
722039.714	4294273.905	7638	21-Dec-13	ALEX122113 (1).SSF	572339.114	33135
722039.274	4294274.509	8149	21-Dec-13	ALEX122113 (1).SSF	572340.1521	33136
722038.869	4294275.037	7587	21-Dec-13	ALEX122113 (1).SSF	572341.0969	33137
722038.443	4294275.362	7597	21-Dec-13	ALEX122113 (1).SSF	572342.0959	33138
722038.277	4294275.522	6699	21-Dec-13	ALEX122113 (1).SSF	572342.998	33139
722038.356	4294275.571	7824	21-Dec-13	ALEX122113 (1).SSF	572344.1479	33140
722038.374	4294275.587	8526	21-Dec-13	ALEX122113 (1).SSF	572345.1021	33141
722038.352	4294275.526	7861	21-Dec-13	ALEX122113 (1).SSF	572346.114	33142
722038.363	4294275.6	7755	21-Dec-13	ALEX122113 (1).SSF	572347.104	33143
722038.376	4294275.733	7038	21-Dec-13	ALEX122113 (1).SSF	572348.116	33144
722038.215	4294275.734	8089	21-Dec-13	ALEX122113 (1).SSF	572349.0991	33145
722038.141	4294275.845	8502	21-Dec-13	ALEX122113 (1).SSF	572350.1069	33146
722038.156	4294275.902	6715	21-Dec-13	ALEX122113 (1).SSF	572350.9709	33147
722038.077	4294275.836	7649	21-Dec-13	ALEX122113 (1).SSF	572352.105	33148
722038.11	4294275.856	6682	21-Dec-13	ALEX122113 (1).SSF	572353.0161	33149
722038.041	4294275.887	7070	21-Dec-13	ALEX122113 (1).SSF	572354.1069	33150
722038.031	4294275.862	7347	21-Dec-13	ALEX122113 (1).SSF	572354.998	33151
722038.13	4294275.911	8587	21-Dec-13	ALEX122113 (1).SSF	572356.064	33152
722038.126	4294275.945	7833	21-Dec-13	ALEX122113 (1).SSF	572357.0371	33153
722038.139	4294275.983	7339	21-Dec-13	ALEX122113 (1).SSF	572358.1411	33154

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722038.172	4294275.994	7084	21-Dec-13	ALEX122113 (1).SSF	572359.1079	33155
722038.18	4294276.009	7591	21-Dec-13	ALEX122113 (1).SSF	572360.1499	33156
722038.178	4294275.997	7935	21-Dec-13	ALEX122113 (1).SSF	572361.0291	33157
722038.162	4294275.934	8297	21-Dec-13	ALEX122113 (1).SSF	572362.1399	33158
722038.152	4294275.934	7684	21-Dec-13	ALEX122113 (1).SSF	572363.02	33159
722038.166	4294275.992	7111	21-Dec-13	ALEX122113 (1).SSF	572364.1211	33160
722038.141	4294275.941	7267	21-Dec-13	ALEX122113 (1).SSF	572365.1831	33161
722038.046	4294275.782	7757	21-Dec-13	ALEX122113 (1).SSF	572366.2029	33162
722038.046	4294275.787	8239	21-Dec-13	ALEX122113 (1).SSF	572367.0701	33163
722038.045	4294276.091	8089	21-Dec-13	ALEX122113 (1).SSF	572368.082	33164
722037.772	4294276.384	7482	21-Dec-13	ALEX122113 (1).SSF	572369.03	33165
722037.202	4294276.996	7360	21-Dec-13	ALEX122113 (1).SSF	572370.0649	33166
722036.735	4294277.617	7160	21-Dec-13	ALEX122113 (1).SSF	572370.9209	33167
722035.974	4294278.382	7420	21-Dec-13	ALEX122113 (1).SSF	572372.219	33168
722035.588	4294278.758	7225	21-Dec-13	ALEX122113 (1).SSF	572372.9199	33169
722035.26	4294279.108	7386	21-Dec-13	ALEX122113 (1).SSF	572374.02	33170
722035.253	4294279.322	6946	21-Dec-13	ALEX122113 (1).SSF	572375.062	33171
722035.471	4294279.523	6416	21-Dec-13	ALEX122113 (1).SSF	572376.167	33172
722035.651	4294279.648	7394	21-Dec-13	ALEX122113 (1).SSF	572377.0381	33173
722035.745	4294279.721	7728	21-Dec-13	ALEX122113 (1).SSF	572378.0991	33174
722035.718	4294279.721	7962	21-Dec-13	ALEX122113 (1).SSF	572378.95	33175
722035.637	4294279.716	6280	21-Dec-13	ALEX122113 (1).SSF	572380.0911	33176
722035.563	4294279.783	6430	21-Dec-13	ALEX122113 (1).SSF	572380.9871	33177
722035.521	4294279.845	7697	21-Dec-13	ALEX122113 (1).SSF	572382.104	33178
722035.508	4294279.89	6454	21-Dec-13	ALEX122113 (1).SSF	572383.105	33179
722035.481	4294279.931	6743	21-Dec-13	ALEX122113 (1).SSF	572384.187	33180
722035.408	4294279.959	6786	21-Dec-13	ALEX122113 (1).SSF	572384.9871	33181
722035.305	4294279.982	8266	21-Dec-13	ALEX122113 (1).SSF	572386.1819	33182
722035.174	4294279.965	8186	21-Dec-13	ALEX122113 (1).SSF	572387.073	33183
722034.872	4294280.15	7716	21-Dec-13	ALEX122113 (1).SSF	572388.136	33184
722034.498	4294280.591	7449	21-Dec-13	ALEX122113 (1).SSF	572389.01	33185
722034	4294280.998	7742	21-Dec-13	ALEX122113 (1).SSF	572390.0769	33186
722033.592	4294281.42	7845	21-Dec-13	ALEX122113 (1).SSF	572391.0359	33187
722033.246	4294281.854	7421	21-Dec-13	ALEX122113 (1).SSF	572392.0439	33188
722033.143	4294281.933	7135	21-Dec-13	ALEX122113 (1).SSF	572392.989	33189
722033.164	4294281.828	6614	21-Dec-13	ALEX122113 (1).SSF	572394.093	33190
722033.19	4294281.771	8343	21-Dec-13	ALEX122113 (1).SSF	572394.99	33191
722033.198	4294281.741	8055	21-Dec-13	ALEX122113 (1).SSF	572396.146	33192
722033.174	4294281.753	8253	21-Dec-13	ALEX122113 (1).SSF	572397.0291	33193
722033.209	4294281.799	7733	21-Dec-13	ALEX122113 (1).SSF	572398.061	33194
722033.001	4294282.016	7783	21-Dec-13	ALEX122113 (1).SSF	572399.0239	33195
722032.31	4294282.356	7826	21-Dec-13	ALEX122113 (1).SSF	572400.134	33196
722031.787	4294282.787	8616	21-Dec-13	ALEX122113 (1).SSF	572401.1021	33197
722031.48	4294283.413	8034	21-Dec-13	ALEX122113 (1).SSF	572402.1399	33198
722031.052	4294283.937	8278	21-Dec-13	ALEX122113 (1).SSF	572403.1431	33199
722030.797	4294284.14	8729	21-Dec-13	ALEX122113 (1).SSF	572404.2339	33200
722030.856	4294284.097	8092	21-Dec-13	ALEX122113 (1).SSF	572405.085	33201

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722030.887	4294284.045	8413	21-Dec-13	ALEX122113 (1).SSF	572406.158	33202
722030.9	4294284.04	8463	21-Dec-13	ALEX122113 (1).SSF	572407.033	33203
722030.874	4294284.101	7335	21-Dec-13	ALEX122113 (1).SSF	572408.1169	33204
722030.621	4294284.311	8433	21-Dec-13	ALEX122113 (1).SSF	572409.032	33205
722030.163	4294284.781	7598	21-Dec-13	ALEX122113 (1).SSF	572410.0891	33206
722029.816	4294285.243	7509	21-Dec-13	ALEX122113 (1).SSF	572410.9871	33207
722029.205	4294285.723	7997	21-Dec-13	ALEX122113 (1).SSF	572411.9971	33208
722028.655	4294286.182	8059	21-Dec-13	ALEX122113 (1).SSF	572413.001	33209
722028.197	4294286.805	8284	21-Dec-13	ALEX122113 (1).SSF	572414.0081	33210
722027.666	4294287.538	8761	21-Dec-13	ALEX122113 (1).SSF	572415.001	33211
722027.174	4294288.025	7770	21-Dec-13	ALEX122113 (1).SSF	572416.1069	33212
722027.05	4294288.098	8872	21-Dec-13	ALEX122113 (1).SSF	572416.8979	33213
722027.106	4294288.102	7528	21-Dec-13	ALEX122113 (1).SSF	572417.9961	33214
722027.14	4294288.083	7972	21-Dec-13	ALEX122113 (1).SSF	572418.925	33215
722027.134	4294288.012	8683	21-Dec-13	ALEX122113 (1).SSF	572420.1201	33216
722027.222	4294288.026	8980	21-Dec-13	ALEX122113 (1).SSF	572420.9719	33217
722027.336	4294288.045	8305	21-Dec-13	ALEX122113 (1).SSF	572422.1169	33218
722027.336	4294288.02	8256	21-Dec-13	ALEX122113 (1).SSF	572422.97	33219
722027.331	4294288.054	8304	21-Dec-13	ALEX122113 (1).SSF	572424.1101	33220
722027.34	4294288.116	7986	21-Dec-13	ALEX122113 (1).SSF	572425.0901	33221
722027.359	4294288.113	7726	21-Dec-13	ALEX122113 (1).SSF	572426.042	33222
722027.286	4294288.091	7901	21-Dec-13	ALEX122113 (1).SSF	572426.9551	33223
722027.257	4294288.1	7705	21-Dec-13	ALEX122113 (1).SSF	572428.2529	33224
722027.225	4294288.031	8646	21-Dec-13	ALEX122113 (1).SSF	572428.9751	33225
722027.035	4294287.954	8881	21-Dec-13	ALEX122113 (1).SSF	572430.155	33226
722027.019	4294287.957	8490	21-Dec-13	ALEX122113 (1).SSF	572430.937	33227
722027.066	4294288	9352	21-Dec-13	ALEX122113 (1).SSF	572432.0869	33228
722027.128	4294288.035	8608	21-Dec-13	ALEX122113 (1).SSF	572432.9231	33229
722027.04	4294288.142	7702	21-Dec-13	ALEX122113 (1).SSF	572434.0591	33230
722026.631	4294288.619	8225	21-Dec-13	ALEX122113 (1).SSF	572435.0959	33231
722025.996	4294289.358	8746	21-Dec-13	ALEX122113 (1).SSF	572436.0569	33232
722025.366	4294290.016	9386	21-Dec-13	ALEX122113 (1).SSF	572436.958	33233
722024.827	4294290.855	9006	21-Dec-13	ALEX122113 (1).SSF	572438.094	33234
722024.526	4294291.707	8851	21-Dec-13	ALEX122113 (1).SSF	572439.0659	33235
722024.064	4294292.44	7972	21-Dec-13	ALEX122113 (1).SSF	572440.0569	33236
722023.48	4294292.965	8713	21-Dec-13	ALEX122113 (1).SSF	572440.8621	33237
722022.732	4294293.726	9978	21-Dec-13	ALEX122113 (1).SSF	572442.01	33238
722022.28	4294294.36	9394	21-Dec-13	ALEX122113 (1).SSF	572442.9209	33239
722021.659	4294295.133	9128	21-Dec-13	ALEX122113 (1).SSF	572443.9199	33240
722020.951	4294296.001	8582	21-Dec-13	ALEX122113 (1).SSF	572445.1021	33241
722020.394	4294296.819	8715	21-Dec-13	ALEX122113 (1).SSF	572446.188	33242
722020.018	4294297.421	9528	21-Dec-13	ALEX122113 (1).SSF	572446.9241	33243
722019.269	4294298.179	9402	21-Dec-13	ALEX122113 (1).SSF	572447.9971	33244
722018.467	4294298.766	9340	21-Dec-13	ALEX122113 (1).SSF	572449.1179	33245
722017.934	4294299.411	9175	21-Dec-13	ALEX122113 (1).SSF	572450.0491	33246
722017.468	4294300.123	8803	21-Dec-13	ALEX122113 (1).SSF	572450.928	33247
722016.871	4294300.97	9221	21-Dec-13	ALEX122113 (1).SSF	572452.1101	33248

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722016.339	4294301.701	8725	21-Dec-13	ALEX122113 (1).SSF	572453.0569	33249
722015.765	4294302.408	9291	21-Dec-13	ALEX122113 (1).SSF	572454.0569	33250
722015.24	4294302.927	9192	21-Dec-13	ALEX122113 (1).SSF	572454.9299	33251
722014.665	4294303.646	8958	21-Dec-13	ALEX122113 (1).SSF	572456.0281	33252
722014.153	4294304.251	9649	21-Dec-13	ALEX122113 (1).SSF	572456.979	33253
722013.266	4294304.949	8802	21-Dec-13	ALEX122113 (1).SSF	572458.103	33254
722012.702	4294305.464	9400	21-Dec-13	ALEX122113 (1).SSF	572458.9629	33255
722012.279	4294306.201	9790	21-Dec-13	ALEX122113 (1).SSF	572460.0959	33256
722011.934	4294306.936	8837	21-Dec-13	ALEX122113 (1).SSF	572460.991	33257
722011.35	4294307.722	8539	21-Dec-13	ALEX122113 (1).SSF	572462.042	33258
722010.9	4294308.287	8164	21-Dec-13	ALEX122113 (1).SSF	572462.9939	33259
722010.364	4294309.125	8101	21-Dec-13	ALEX122113 (1).SSF	572464.1189	33260
722009.875	4294309.865	6945	21-Dec-13	ALEX122113 (1).SSF	572464.9939	33261
722009.332	4294310.618	8696	21-Dec-13	ALEX122113 (1).SSF	572466.127	33262
722008.985	4294311.066	8264	21-Dec-13	ALEX122113 (1).SSF	572466.8779	33263
722008.392	4294311.771	8516	21-Dec-13	ALEX122113 (1).SSF	572468.0161	33264
722007.8	4294312.285	7709	21-Dec-13	ALEX122113 (1).SSF	572468.9751	33265
722007.233	4294312.548	8347	21-Dec-13	ALEX122113 (1).SSF	572470.032	33266
722006.968	4294312.953	8896	21-Dec-13	ALEX122113 (1).SSF	572470.895	33267
722006.542	4294313.614	7954	21-Dec-13	ALEX122113 (1).SSF	572472.0811	33268
722006.25	4294313.542	9038	21-Dec-13	ALEX122113 (1).SSF	572472.9209	33269
722006.23	4294313.067	8979	21-Dec-13	ALEX122113 (1).SSF	572474.0649	33270
722006.228	4294312.945	8305	21-Dec-13	ALEX122113 (1).SSF	572474.9561	33271
722006.186	4294312.917	8436	21-Dec-13	ALEX122113 (1).SSF	572476.0291	33272
722006.111	4294312.962	8649	21-Dec-13	ALEX122113 (1).SSF	572476.9771	33273
722006.084	4294312.967	8072	21-Dec-13	ALEX122113 (1).SSF	572478.115	33274
722006.375	4294312.707	7996	21-Dec-13	ALEX122113 (1).SSF	572478.9919	33275
722006.822	4294312.122	9189	21-Dec-13	ALEX122113 (1).SSF	572480.1689	33276
722007.038	4294311.687	8267	21-Dec-13	ALEX122113 (1).SSF	572480.9609	33277
722007.63	4294310.844	8936	21-Dec-13	ALEX122113 (1).SSF	572482.114	33278
722008.085	4294310.271	8834	21-Dec-13	ALEX122113 (1).SSF	572483.0061	33279
722008.418	4294309.65	8808	21-Dec-13	ALEX122113 (1).SSF	572484.0339	33280
722008.837	4294309.082	7872	21-Dec-13	ALEX122113 (1).SSF	572484.9939	33281
722009.293	4294308.649	9348	21-Dec-13	ALEX122113 (1).SSF	572486.0471	33282
722009.663	4294308.36	8247	21-Dec-13	ALEX122113 (1).SSF	572486.9099	33283
722009.807	4294308.2	8961	21-Dec-13	ALEX122113 (1).SSF	572488.0171	33284
722009.856	4294308.148	8270	21-Dec-13	ALEX122113 (1).SSF	572488.9519	33285
722009.869	4294308.241	8697	21-Dec-13	ALEX122113 (1).SSF	572490.094	33286
722009.806	4294308.389	8534	21-Dec-13	ALEX122113 (1).SSF	572490.979	33287
722009.91	4294308.401	9213	21-Dec-13	ALEX122113 (1).SSF	572492.0259	33288
722010.006	4294308.316	8573	21-Dec-13	ALEX122113 (1).SSF	572492.9829	33289
722010.082	4294308.196	8743	21-Dec-13	ALEX122113 (1).SSF	572494.1069	33290
722010.38	4294307.812	8756	21-Dec-13	ALEX122113 (1).SSF	572494.9751	33291
722010.971	4294307.248	7769	21-Dec-13	ALEX122113 (1).SSF	572496.1021	33292
722011.362	4294306.797	7942	21-Dec-13	ALEX122113 (1).SSF	572496.9519	33293
722011.806	4294306.061	8135	21-Dec-13	ALEX122113 (1).SSF	572498.114	33294
722012.148	4294305.637	8363	21-Dec-13	ALEX122113 (1).SSF	572499.0171	33295

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722012.61	4294304.969	8871	21-Dec-13	ALEX122113 (1).SSF	572500.062	33296
722013	4294304.344	9117	21-Dec-13	ALEX122113 (1).SSF	572500.9741	33297
722013.633	4294303.663	8489	21-Dec-13	ALEX122113 (1).SSF	572501.946	33298
722014.213	4294302.967	8392	21-Dec-13	ALEX122113 (1).SSF	572502.9099	33299
722014.708	4294302.286	8548	21-Dec-13	ALEX122113 (1).SSF	572503.9939	33300
722015.276	4294301.646	8257	21-Dec-13	ALEX122113 (1).SSF	572504.9341	33301
722016.022	4294300.815	8874	21-Dec-13	ALEX122113 (1).SSF	572506.01	33302
722016.525	4294300.126	9538	21-Dec-13	ALEX122113 (1).SSF	572506.9661	33303
722017.155	4294299.346	9044	21-Dec-13	ALEX122113 (1).SSF	572508.002	33304
722017.655	4294298.723	9281	21-Dec-13	ALEX122113 (1).SSF	572508.9771	33305
722018.221	4294297.966	9130	21-Dec-13	ALEX122113 (1).SSF	572510.104	33306
722018.784	4294297.25	9452	21-Dec-13	ALEX122113 (1).SSF	572511.0991	33307
722019.407	4294296.558	8603	21-Dec-13	ALEX122113 (1).SSF	572512.0559	33308
722019.864	4294295.894	8270	21-Dec-13	ALEX122113 (1).SSF	572512.9431	33309
722020.334	4294295.055	8217	21-Dec-13	ALEX122113 (1).SSF	572514.061	33310
722020.879	4294294.432	8534	21-Dec-13	ALEX122113 (1).SSF	572514.9441	33311
722021.63	4294293.711	8613	21-Dec-13	ALEX122113 (1).SSF	572515.9651	33312
722022.128	4294293.022	8753	21-Dec-13	ALEX122113 (1).SSF	572516.874	33313
722022.889	4294292.112	7318	21-Dec-13	ALEX122113 (1).SSF	572518.012	33314
722023.537	4294291.529	7619	21-Dec-13	ALEX122113 (1).SSF	572518.948	33315
722024.334	4294290.614	6435	21-Dec-13	ALEX122113 (1).SSF	572520.1421	33316
722024.815	4294289.803	6978	21-Dec-13	ALEX122113 (1).SSF	572521.02	33317
722025.459	4294288.889	6184	21-Dec-13	ALEX122113 (1).SSF	572522.062	33318
722026.028	4294288.269	6946	21-Dec-13	ALEX122113 (1).SSF	572523.011	33319
722026.482	4294287.587	7016	21-Dec-13	ALEX122113 (1).SSF	572523.99	33320
722027.061	4294286.864	6434	21-Dec-13	ALEX122113 (1).SSF	572524.9331	33321
722027.706	4294286.34	7308	21-Dec-13	ALEX122113 (1).SSF	572525.937	33322
722028.3	4294285.814	7167	21-Dec-13	ALEX122113 (1).SSF	572526.8491	33323
722029.001	4294284.876	7071	21-Dec-13	ALEX122113 (1).SSF	572528.012	33324
722029.633	4294284.097	5818	21-Dec-13	ALEX122113 (1).SSF	572528.9341	33325
722030.196	4294283.395	6381	21-Dec-13	ALEX122113 (1).SSF	572530.0681	33326
722030.657	4294282.758	6485	21-Dec-13	ALEX122113 (1).SSF	572530.9961	33327
722031.356	4294282.014	7471	21-Dec-13	ALEX122113 (1).SSF	572532.009	33328
722032.162	4294281.242	7147	21-Dec-13	ALEX122113 (1).SSF	572532.9919	33329
722032.819	4294280.44	7217	21-Dec-13	ALEX122113 (1).SSF	572534.0359	33330
722033.485	4294279.654	7624	21-Dec-13	ALEX122113 (1).SSF	572534.9561	33331
722034.16	4294278.952	8236	21-Dec-13	ALEX122113 (1).SSF	572535.9529	33332
722034.506	4294278.393	7429	21-Dec-13	ALEX122113 (1).SSF	572536.8689	33333
722034.878	4294277.635	7617	21-Dec-13	ALEX122113 (1).SSF	572537.9751	33334
722035.214	4294277.176	7064	21-Dec-13	ALEX122113 (1).SSF	572538.864	33335
722035.772	4294276.503	8066	21-Dec-13	ALEX122113 (1).SSF	572539.9529	33336
722036.34	4294275.822	7056	21-Dec-13	ALEX122113 (1).SSF	572540.876	33337
722037.074	4294275.101	7014	21-Dec-13	ALEX122113 (1).SSF	572541.9041	33338
722037.808	4294274.506	8083	21-Dec-13	ALEX122113 (1).SSF	572542.842	33339
722038.585	4294273.78	7571	21-Dec-13	ALEX122113 (1).SSF	572544.0339	33340
722039.276	4294272.978	7892	21-Dec-13	ALEX122113 (1).SSF	572544.9189	33341
722039.984	4294272.101	7403	21-Dec-13	ALEX122113 (1).SSF	572546.002	33342

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722040.538	4294271.359	7310	21-Dec-13	ALEX122113 (1).SSF	572546.9441	33343
722041.107	4294270.622	7107	21-Dec-13	ALEX122113 (1).SSF	572548.064	33344
722041.657	4294270.124	7417	21-Dec-13	ALEX122113 (1).SSF	572548.8491	33345
722042.526	4294269.252	7134	21-Dec-13	ALEX122113 (1).SSF	572549.98	33346
722043.108	4294268.385	6973	21-Dec-13	ALEX122113 (1).SSF	572550.9509	33347
722043.543	4294267.654	6003	21-Dec-13	ALEX122113 (1).SSF	572551.916	33348
722044.135	4294267.036	6661	21-Dec-13	ALEX122113 (1).SSF	572552.8889	33349
722044.738	4294266.338	6405	21-Dec-13	ALEX122113 (1).SSF	572553.9399	33350
722045.225	4294265.672	6971	21-Dec-13	ALEX122113 (1).SSF	572554.8879	33351
722046.133	4294264.789	6423	21-Dec-13	ALEX122113 (1).SSF	572556.0359	33352
722046.592	4294264.304	5985	21-Dec-13	ALEX122113 (1).SSF	572556.9221	33353
722047.247	4294263.622	6089	21-Dec-13	ALEX122113 (1).SSF	572557.9419	33354
722047.973	4294262.895	6063	21-Dec-13	ALEX122113 (1).SSF	572558.864	33355
722048.806	4294261.934	6645	21-Dec-13	ALEX122113 (1).SSF	572560.0879	33356
722049.265	4294261.274	6452	21-Dec-13	ALEX122113 (1).SSF	572560.9819	33357
722049.971	4294260.472	6623	21-Dec-13	ALEX122113 (1).SSF	572562.0081	33358
722050.543	4294259.811	6875	21-Dec-13	ALEX122113 (1).SSF	572562.9939	33359
722051.083	4294259.177	7119	21-Dec-13	ALEX122113 (1).SSF	572563.9951	33360
722051.752	4294258.58	5889	21-Dec-13	ALEX122113 (1).SSF	572564.8789	33361
722052.475	4294257.812	5988	21-Dec-13	ALEX122113 (1).SSF	572565.9871	33362
722053.05	4294256.996	5920	21-Dec-13	ALEX122113 (1).SSF	572567.012	33363
722053.624	4294256.272	6690	21-Dec-13	ALEX122113 (1).SSF	572567.927	33364
722054.236	4294255.677	7132	21-Dec-13	ALEX122113 (1).SSF	572568.842	33365
722054.929	4294254.915	6283	21-Dec-13	ALEX122113 (1).SSF	572569.9231	33366
722055.432	4294254.237	5711	21-Dec-13	ALEX122113 (1).SSF	572570.916	33367
722055.98	4294253.605	6175	21-Dec-13	ALEX122113 (1).SSF	572571.9529	33368
722056.494	4294253.043	6373	21-Dec-13	ALEX122113 (1).SSF	572572.8669	33369
722056.919	4294252.459	6003	21-Dec-13	ALEX122113 (1).SSF	572573.9661	33370
722056.999	4294252.33	6024	21-Dec-13	ALEX122113 (1).SSF	572574.896	33371
722057.03	4294252.352	6474	21-Dec-13	ALEX122113 (1).SSF	572576.0659	33372
722056.997	4294252.342	6132	21-Dec-13	ALEX122113 (1).SSF	572577.0081	33373
722057.013	4294252.086	6603	21-Dec-13	ALEX122113 (1).SSF	572578.0029	33374
722056.908	4294251.619	6030	21-Dec-13	ALEX122113 (1).SSF	572578.8831	33375
722056.633	4294250.724	7046	21-Dec-13	ALEX122113 (1).SSF	572579.989	33376
722056.162	4294250.147	6981	21-Dec-13	ALEX122113 (1).SSF	572580.8831	33377
722055.811	4294250.068	7145	21-Dec-13	ALEX122113 (1).SSF	572582.0681	33378
722055.653	4294250.202	6586	21-Dec-13	ALEX122113 (1).SSF	572582.884	33379
722055.206	4294250.477	6054	21-Dec-13	ALEX122113 (1).SSF	572583.9839	33380
722054.66	4294251.031	5930	21-Dec-13	ALEX122113 (1).SSF	572584.988	33381
722054.128	4294251.675	5983	21-Dec-13	ALEX122113 (1).SSF	572586.0039	33382
722053.521	4294252.168	5663	21-Dec-13	ALEX122113 (1).SSF	572587.0569	33383
722052.883	4294252.676	5810	21-Dec-13	ALEX122113 (1).SSF	572588.0281	33384
722052.49	4294253.147	5938	21-Dec-13	ALEX122113 (1).SSF	572588.884	33385
722051.94	4294253.774	6697	21-Dec-13	ALEX122113 (1).SSF	572590.1201	33386
722050.992	4294255.034	6200	21-Dec-13	ALEX122113 (1).SSF	572592.0491	33388
722050.517	4294255.516	5880	21-Dec-13	ALEX122113 (1).SSF	572592.8911	33389
722049.852	4294256.278	6067	21-Dec-13	ALEX122113 (1).SSF	572594.074	33390

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722049.542	4294256.748	6647	21-Dec-13	ALEX122113 (1).SSF	572594.874	33391
722048.931	4294257.375	6521	21-Dec-13	ALEX122113 (1).SSF	572595.9819	33392
722048.378	4294257.918	6400	21-Dec-13	ALEX122113 (1).SSF	572596.9221	33393
722047.811	4294258.59	7150	21-Dec-13	ALEX122113 (1).SSF	572598.053	33394
722047.526	4294258.828	7307	21-Dec-13	ALEX122113 (1).SSF	572598.875	33395
722047.573	4294258.913	7406	21-Dec-13	ALEX122113 (1).SSF	572600.019	33396
722047.707	4294258.976	7461	21-Dec-13	ALEX122113 (1).SSF	572600.9419	33397
722047.692	4294258.948	6035	21-Dec-13	ALEX122113 (1).SSF	572602.0459	33398
722047.641	4294258.923	5757	21-Dec-13	ALEX122113 (1).SSF	572602.8811	33399
722047.611	4294258.919	6696	21-Dec-13	ALEX122113 (1).SSF	572603.95	33400
722047.59	4294258.942	6654	21-Dec-13	ALEX122113 (1).SSF	572604.8811	33401
722047.581	4294258.958	7663	21-Dec-13	ALEX122113 (1).SSF	572605.875	33402
722047.358	4294259.064	6686	21-Dec-13	ALEX122113 (1).SSF	572606.886	33403
722046.871	4294259.298	6471	21-Dec-13	ALEX122113 (1).SSF	572607.928	33404
722046.433	4294259.608	6927	21-Dec-13	ALEX122113 (1).SSF	572608.8779	33405
722045.955	4294260.149	6112	21-Dec-13	ALEX122113 (1).SSF	572609.9331	33406
722045.531	4294260.724	5906	21-Dec-13	ALEX122113 (1).SSF	572610.8879	33407
722045.046	4294261.317	5635	21-Dec-13	ALEX122113 (1).SSF	572611.915	33408
722044.718	4294261.92	5772	21-Dec-13	ALEX122113 (1).SSF	572612.9031	33409
722044.279	4294262.599	7084	21-Dec-13	ALEX122113 (1).SSF	572613.905	33410
722043.844	4294263.139	5911	21-Dec-13	ALEX122113 (1).SSF	572614.8159	33411
722043.315	4294263.849	5531	21-Dec-13	ALEX122113 (1).SSF	572615.874	33412
722042.811	4294264.427	5774	21-Dec-13	ALEX122113 (1).SSF	572616.833	33413
722042.297	4294264.886	5685	21-Dec-13	ALEX122113 (1).SSF	572617.876	33414
722041.769	4294265.481	6107	21-Dec-13	ALEX122113 (1).SSF	572618.884	33415
722041.25	4294266.126	6596	21-Dec-13	ALEX122113 (1).SSF	572619.884	33416
722040.641	4294266.746	6869	21-Dec-13	ALEX122113 (1).SSF	572620.9309	33417
722040.064	4294267.427	6697	21-Dec-13	ALEX122113 (1).SSF	572621.9109	33418
722039.602	4294268.047	6534	21-Dec-13	ALEX122113 (1).SSF	572622.905	33419
722038.994	4294268.697	6793	21-Dec-13	ALEX122113 (1).SSF	572623.905	33420
722038.465	4294269.326	7728	21-Dec-13	ALEX122113 (1).SSF	572624.8711	33421
722037.911	4294269.97	7632	21-Dec-13	ALEX122113 (1).SSF	572625.9121	33422
722037.315	4294270.53	6528	21-Dec-13	ALEX122113 (1).SSF	572626.8411	33423
722036.759	4294271.098	6492	21-Dec-13	ALEX122113 (1).SSF	572627.916	33424
722036.22	4294271.795	6483	21-Dec-13	ALEX122113 (1).SSF	572628.9141	33425
722035.655	4294272.545	6660	21-Dec-13	ALEX122113 (1).SSF	572629.9021	33426
722035.078	4294273.141	6555	21-Dec-13	ALEX122113 (1).SSF	572630.833	33427
722034.405	4294273.887	6948	21-Dec-13	ALEX122113 (1).SSF	572631.938	33428
722033.949	4294274.652	7317	21-Dec-13	ALEX122113 (1).SSF	572632.9199	33429
722033.337	4294275.387	6359	21-Dec-13	ALEX122113 (1).SSF	572633.946	33430
722032.795	4294275.913	6900	21-Dec-13	ALEX122113 (1).SSF	572634.864	33431
722032.228	4294276.459	6135	21-Dec-13	ALEX122113 (1).SSF	572635.8889	33432
722031.694	4294276.987	6093	21-Dec-13	ALEX122113 (1).SSF	572636.8201	33433
722031.164	4294277.614	6803	21-Dec-13	ALEX122113 (1).SSF	572637.949	33434
722030.739	4294278.298	6151	21-Dec-13	ALEX122113 (1).SSF	572638.8879	33435
722030.086	4294279.27	5947	21-Dec-13	ALEX122113 (1).SSF	572640.1211	33436
722029.601	4294279.756	7030	21-Dec-13	ALEX122113 (1).SSF	572640.876	33437

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722028.898	4294280.203	7607	21-Dec-13	ALEX122113 (1).SSF	572641.936	33438
722028.345	4294280.723	6221	21-Dec-13	ALEX122113 (1).SSF	572642.895	33439
722027.852	4294281.488	6685	21-Dec-13	ALEX122113 (1).SSF	572643.938	33440
722027.286	4294282.205	6741	21-Dec-13	ALEX122113 (1).SSF	572644.9021	33441
722026.661	4294282.891	5555	21-Dec-13	ALEX122113 (1).SSF	572645.8701	33442
722026.088	4294283.626	6049	21-Dec-13	ALEX122113 (1).SSF	572646.8611	33443
722025.585	4294284.394	6080	21-Dec-13	ALEX122113 (1).SSF	572647.9021	33444
722025.017	4294284.981	6860	21-Dec-13	ALEX122113 (1).SSF	572648.833	33445
722024.378	4294285.674	6245	21-Dec-13	ALEX122113 (1).SSF	572649.8779	33446
722023.983	4294286.454	6121	21-Dec-13	ALEX122113 (1).SSF	572650.759	33447
722023.444	4294287.318	6150	21-Dec-13	ALEX122113 (1).SSF	572651.9451	33448
722022.966	4294287.87	7807	21-Dec-13	ALEX122113 (1).SSF	572652.801	33449
722022.415	4294288.62	6482	21-Dec-13	ALEX122113 (1).SSF	572653.8601	33450
722021.941	4294289.386	6420	21-Dec-13	ALEX122113 (1).SSF	572654.821	33451
722021.313	4294290.269	6885	21-Dec-13	ALEX122113 (1).SSF	572655.8889	33452
722020.71	4294290.929	6581	21-Dec-13	ALEX122113 (1).SSF	572656.8291	33453
722019.983	4294291.805	7225	21-Dec-13	ALEX122113 (1).SSF	572658.0359	33454
722019.524	4294292.432	7146	21-Dec-13	ALEX122113 (1).SSF	572658.8279	33455
722018.68	4294293.213	7396	21-Dec-13	ALEX122113 (1).SSF	572659.9309	33456
722018.051	4294293.812	9559	21-Dec-13	ALEX122113 (1).SSF	572660.8169	33457
722017.451	4294294.556	9379	21-Dec-13	ALEX122113 (1).SSF	572661.8679	33458
722017.003	4294295.224	8975	21-Dec-13	ALEX122113 (1).SSF	572662.8191	33459
722016.328	4294295.943	8423	21-Dec-13	ALEX122113 (1).SSF	572663.853	33460
722015.681	4294296.561	8406	21-Dec-13	ALEX122113 (1).SSF	572664.8521	33461
722015.029	4294297.423	8401	21-Dec-13	ALEX122113 (1).SSF	572665.9299	33462
722014.49	4294298.107	9900	21-Dec-13	ALEX122113 (1).SSF	572666.8879	33463
722013.872	4294298.815	8895	21-Dec-13	ALEX122113 (1).SSF	572667.95	33464
722013.36	4294299.529	9363	21-Dec-13	ALEX122113 (1).SSF	572668.8601	33465
722012.889	4294300.388	9331	21-Dec-13	ALEX122113 (1).SSF	572669.929	33466
722012.239	4294301.087	9892	21-Dec-13	ALEX122113 (1).SSF	572670.8669	33467
722011.532	4294301.803	8953	21-Dec-13	ALEX122113 (1).SSF	572671.926	33468
722011.119	4294302.52	9078	21-Dec-13	ALEX122113 (1).SSF	572672.8479	33469
722010.464	4294303.391	9169	21-Dec-13	ALEX122113 (1).SSF	572673.99	33470
722010.041	4294303.883	8142	21-Dec-13	ALEX122113 (1).SSF	572674.825	33471
722009.485	4294304.55	9655	21-Dec-13	ALEX122113 (1).SSF	572675.9541	33472
722008.905	4294305.207	9824	21-Dec-13	ALEX122113 (1).SSF	572676.866	33473
722008.153	4294305.984	9326	21-Dec-13	ALEX122113 (1).SSF	572677.9729	33474
722007.648	4294306.633	8481	21-Dec-13	ALEX122113 (1).SSF	572678.9221	33475
722007.214	4294307.34	8420	21-Dec-13	ALEX122113 (1).SSF	572679.9771	33476
722006.725	4294307.876	9095	21-Dec-13	ALEX122113 (1).SSF	572680.7839	33477
722006.103	4294308.636	8843	21-Dec-13	ALEX122113 (1).SSF	572681.9351	33478
722005.728	4294309.255	9651	21-Dec-13	ALEX122113 (1).SSF	572682.8291	33479
722005.16	4294309.965	8682	21-Dec-13	ALEX122113 (1).SSF	572683.8779	33480
722004.669	4294310.45	8650	21-Dec-13	ALEX122113 (1).SSF	572684.769	33481
722004.166	4294311.118	8702	21-Dec-13	ALEX122113 (1).SSF	572685.9661	33482
722004.005	4294311.502	8415	21-Dec-13	ALEX122113 (1).SSF	572686.8411	33483
722003.926	4294311.659	9813	21-Dec-13	ALEX122113 (1).SSF	572687.9971	33484

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722003.907	4294311.574	8633	21-Dec-13	ALEX122113 (1).SSF	572688.8491	33485
722003.828	4294311.442	9418	21-Dec-13	ALEX122113 (1).SSF	572689.9961	33486
722003.779	4294311.405	8834	21-Dec-13	ALEX122113 (1).SSF	572690.8701	33487
722003.786	4294311.414	9738	21-Dec-13	ALEX122113 (1).SSF	572691.896	33488
722003.811	4294311.431	10144	21-Dec-13	ALEX122113 (1).SSF	572692.8259	33489
722003.806	4294311.371	8386	21-Dec-13	ALEX122113 (1).SSF	572693.8311	33490
722003.789	4294311.307	8966	21-Dec-13	ALEX122113 (1).SSF	572694.8669	33491
722003.775	4294311.307	8361	21-Dec-13	ALEX122113 (1).SSF	572695.9529	33492
722003.791	4294311.328	10070	21-Dec-13	ALEX122113 (1).SSF	572696.8831	33493
722003.787	4294311.344	9117	21-Dec-13	ALEX122113 (1).SSF	572697.9399	33494
722003.781	4294311.358	8759	21-Dec-13	ALEX122113 (1).SSF	572698.821	33495
722003.806	4294311.378	8730	21-Dec-13	ALEX122113 (1).SSF	572699.9529	33496
722003.874	4294311.411	9322	21-Dec-13	ALEX122113 (1).SSF	572701.011	33497
722003.909	4294311.394	8870	21-Dec-13	ALEX122113 (1).SSF	572701.9431	33498
722003.936	4294311.39	9537	21-Dec-13	ALEX122113 (1).SSF	572702.8459	33499
722004.075	4294311.464	9404	21-Dec-13	ALEX122113 (1).SSF	572703.8979	33500
722004.206	4294311.484	8351	21-Dec-13	ALEX122113 (1).SSF	572704.8159	33501
722004.246	4294311.479	9407	21-Dec-13	ALEX122113 (1).SSF	572705.908	33502
722004.196	4294311.476	9491	21-Dec-13	ALEX122113 (1).SSF	572706.814	33503
722004.098	4294311.48	9573	21-Dec-13	ALEX122113 (1).SSF	572707.9741	33504
722004.042	4294311.492	9713	21-Dec-13	ALEX122113 (1).SSF	572708.9041	33505
722003.968	4294311.46	9198	21-Dec-13	ALEX122113 (1).SSF	572751.9031	33506
722003.958	4294311.451	9589	21-Dec-13	ALEX122113 (1).SSF	572752.8181	33507
722003.942	4294311.466	8997	21-Dec-13	ALEX122113 (1).SSF	572753.8491	33508
722003.984	4294311.412	8789	21-Dec-13	ALEX122113 (1).SSF	572754.8069	33509
722003.938	4294311.257	8797	21-Dec-13	ALEX122113 (1).SSF	572755.9431	33510
722003.819	4294311.223	10029	21-Dec-13	ALEX122113 (1).SSF	572756.842	33511
722003.864	4294311.265	8027	21-Dec-13	ALEX122113 (1).SSF	572757.8679	33512
722003.837	4294311.254	9026	21-Dec-13	ALEX122113 (1).SSF	572758.8621	33513
722003.78	4294311.194	9126	21-Dec-13	ALEX122113 (1).SSF	572759.9089	33514
722003.783	4294311.189	9691	21-Dec-13	ALEX122113 (1).SSF	572760.929	33515
722003.783	4294311.257	8752	21-Dec-13	ALEX122113 (1).SSF	572761.8899	33516
722003.835	4294311.35	8788	21-Dec-13	ALEX122113 (1).SSF	572762.853	33517
722003.855	4294311.364	8797	21-Dec-13	ALEX122113 (1).SSF	572763.9299	33518
722003.868	4294311.273	9369	21-Dec-13	ALEX122113 (1).SSF	572764.835	33519
722003.801	4294310.82	8432	21-Dec-13	ALEX122113 (1).SSF	572765.928	33520
722003.617	4294310.623	9578	21-Dec-13	ALEX122113 (1).SSF	572766.833	33521
722003.425	4294310.558	8814	21-Dec-13	ALEX122113 (1).SSF	572767.9351	33522
722003.172	4294310.071	8893	21-Dec-13	ALEX122113 (1).SSF	572768.8291	33523
722002.507	4294309.418	10593	21-Dec-13	ALEX122113 (1).SSF	572769.887	33524
722001.98	4294309.214	9038	21-Dec-13	ALEX122113 (1).SSF	572770.738	33525
722001.779	4294309.193	8289	21-Dec-13	ALEX122113 (1).SSF	572771.8779	33526
722001.838	4294309.228	8432	21-Dec-13	ALEX122113 (1).SSF	572772.7739	33527
722001.858	4294309.2	9608	21-Dec-13	ALEX122113 (1).SSF	572773.8799	33528
722001.861	4294309.18	10502	21-Dec-13	ALEX122113 (1).SSF	572774.801	33529
722001.872	4294309.206	9585	21-Dec-13	ALEX122113 (1).SSF	572775.8679	33530
722001.9	4294309.228	8846	21-Dec-13	ALEX122113 (1).SSF	572776.873	33531

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722001.899	4294309.25	7851	21-Dec-13	ALEX122113 (1).SSF	572777.897	33532
722001.891	4294309.327	8233	21-Dec-13	ALEX122113 (1).SSF	572778.761	33533
722001.905	4294309.358	9408	21-Dec-13	ALEX122113 (1).SSF	572779.9021	33534
722001.879	4294309.248	9312	21-Dec-13	ALEX122113 (1).SSF	572780.845	33535
722001.906	4294309.199	8808	21-Dec-13	ALEX122113 (1).SSF	572781.9819	33536
722001.879	4294309.192	9192	21-Dec-13	ALEX122113 (1).SSF	572782.8589	33537
722001.862	4294309.178	9768	21-Dec-13	ALEX122113 (1).SSF	572783.906	33538
722001.926	4294309.148	8862	21-Dec-13	ALEX122113 (1).SSF	572784.8301	33539
722001.969	4294309.027	9895	21-Dec-13	ALEX122113 (1).SSF	572785.8989	33540
722002.005	4294308.974	9584	21-Dec-13	ALEX122113 (1).SSF	572786.825	33541
722002.102	4294308.988	9026	21-Dec-13	ALEX122113 (1).SSF	572787.926	33542
722002.099	4294309.092	9816	21-Dec-13	ALEX122113 (1).SSF	572788.804	33543
722002.05	4294309.172	9444	21-Dec-13	ALEX122113 (1).SSF	572789.9089	33544
722002.033	4294309.17	9801	21-Dec-13	ALEX122113 (1).SSF	572790.8081	33545
722002.044	4294309.232	9560	21-Dec-13	ALEX122113 (1).SSF	572791.9199	33546
722002.071	4294309.336	9770	21-Dec-13	ALEX122113 (1).SSF	572792.8279	33547
722002.127	4294309.511	9822	21-Dec-13	ALEX122113 (1).SSF	572793.8789	33548
722002.249	4294309.505	8365	21-Dec-13	ALEX122113 (1).SSF	572794.8721	33549
722002.301	4294309.474	9981	21-Dec-13	ALEX122113 (1).SSF	572795.8491	33550
722002.274	4294309.476	9725	21-Dec-13	ALEX122113 (1).SSF	572796.748	33551
722002.275	4294309.51	8911	21-Dec-13	ALEX122113 (1).SSF	572797.8511	33552
722002.274	4294309.574	9277	21-Dec-13	ALEX122113 (1).SSF	572798.741	33553
722002.281	4294309.615	9969	21-Dec-13	ALEX122113 (1).SSF	572799.842	33554
722002.234	4294309.605	10082	21-Dec-13	ALEX122113 (1).SSF	572800.7329	33555
722002.195	4294309.604	9210	21-Dec-13	ALEX122113 (1).SSF	572801.833	33556
722002.069	4294309.49	9562	21-Dec-13	ALEX122113 (1).SSF	572802.748	33557
722001.88	4294309.372	8750	21-Dec-13	ALEX122113 (1).SSF	572803.8259	33558
722001.805	4294309.406	9687	21-Dec-13	ALEX122113 (1).SSF	572804.7361	33559
722001.736	4294309.468	9952	21-Dec-13	ALEX122113 (1).SSF	572805.886	33560
722001.877	4294309.689	9058	21-Dec-13	ALEX122113 (1).SSF	572806.8169	33561
722002.191	4294310.133	9674	21-Dec-13	ALEX122113 (1).SSF	572807.8279	33562
722002.284	4294310.38	9618	21-Dec-13	ALEX122113 (1).SSF	572808.7271	33563
722002.294	4294310.427	9004	21-Dec-13	ALEX122113 (1).SSF	572809.864	33564
722002.289	4294310.376	9511	21-Dec-13	ALEX122113 (1).SSF	572810.802	33565
722002.215	4294310.138	9217	21-Dec-13	ALEX122113 (1).SSF	572811.9351	33566
722002.225	4294310.031	10134	21-Dec-13	ALEX122113 (1).SSF	572812.7981	33567
722002.288	4294310.129	10693	21-Dec-13	ALEX122113 (1).SSF	572813.9309	33568
722002.268	4294310.135	8403	21-Dec-13	ALEX122113 (1).SSF	572814.8611	33569
722002.232	4294310.16	9780	21-Dec-13	ALEX122113 (1).SSF	572815.894	33570
722002.217	4294310.186	10215	21-Dec-13	ALEX122113 (1).SSF	572816.811	33571
722002.144	4294310.039	9363	21-Dec-13	ALEX122113 (1).SSF	572817.9309	33572
722002.176	4294310.017	8971	21-Dec-13	ALEX122113 (1).SSF	572818.7629	33573
722002.253	4294310.159	8872	21-Dec-13	ALEX122113 (1).SSF	572820.1321	33574
722002.26	4294310.163	9988	21-Dec-13	ALEX122113 (1).SSF	572820.866	33575
722002.236	4294310.127	8977	21-Dec-13	ALEX122113 (1).SSF	572821.947	33576
722002.205	4294310.09	9564	21-Dec-13	ALEX122113 (1).SSF	572822.8411	33577
722002.187	4294310.073	10191	21-Dec-13	ALEX122113 (1).SSF	572823.8779	33578

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722002.174	4294310.046	10077	21-Dec-13	ALEX122113 (1).SSF	572824.834	33579
722002.179	4294310.01	9689	21-Dec-13	ALEX122113 (1).SSF	572825.8301	33580
722002.175	4294309.983	9112	21-Dec-13	ALEX122113 (1).SSF	572826.7649	33581
722002.184	4294309.953	10018	21-Dec-13	ALEX122113 (1).SSF	572827.8311	33582
722002.188	4294309.856	9644	21-Dec-13	ALEX122113 (1).SSF	572828.7849	33583
722002.18	4294309.701	9731	21-Dec-13	ALEX122113 (1).SSF	572829.843	33584
722002.174	4294309.682	9782	21-Dec-13	ALEX122113 (1).SSF	572830.7649	33585
722002.154	4294309.672	9975	21-Dec-13	ALEX122113 (1).SSF	572831.864	33586
722002.178	4294309.675	9543	21-Dec-13	ALEX122113 (1).SSF	572832.8391	33587
722002.146	4294309.744	9886	21-Dec-13	ALEX122113 (1).SSF	572833.8611	33588
722002.243	4294309.981	9731	21-Dec-13	ALEX122113 (1).SSF	572834.761	33589
722002.519	4294310.459	8883	21-Dec-13	ALEX122113 (1).SSF	572835.8669	33590
722002.754	4294310.376	9480	21-Dec-13	ALEX122113 (1).SSF	572836.7871	33591
722002.883	4294310.098	9330	21-Dec-13	ALEX122113 (1).SSF	572837.7959	33592
722002.878	4294309.904	9322	21-Dec-13	ALEX122113 (1).SSF	572838.7891	33593
722002.93	4294309.83	9950	21-Dec-13	ALEX122113 (1).SSF	572839.8669	33594
722003.076	4294309.744	9447	21-Dec-13	ALEX122113 (1).SSF	572840.833	33595
722003.367	4294309.445	9982	21-Dec-13	ALEX122113 (1).SSF	572841.938	33596
722003.558	4294309.244	10295	21-Dec-13	ALEX122113 (1).SSF	572842.866	33597
722003.799	4294309.294	10283	21-Dec-13	ALEX122113 (1).SSF	572843.9399	33598
722003.945	4294309.346	8691	21-Dec-13	ALEX122113 (1).SSF	572844.8391	33599
722004.127	4294309.07	9222	21-Dec-13	ALEX122113 (1).SSF	572845.8491	33600
722004.274	4294308.86	9865	21-Dec-13	ALEX122113 (1).SSF	572846.877	33601
722004.383	4294308.709	9876	21-Dec-13	ALEX122113 (1).SSF	572847.926	33602
722004.404	4294308.622	10239	21-Dec-13	ALEX122113 (1).SSF	572848.853	33603
722004.406	4294308.564	9909	21-Dec-13	ALEX122113 (1).SSF	572849.844	33604
722004.381	4294308.538	8867	21-Dec-13	ALEX122113 (1).SSF	572850.782	33605
722004.316	4294308.538	8306	21-Dec-13	ALEX122113 (1).SSF	572851.8989	33606
722004.263	4294308.549	10266	21-Dec-13	ALEX122113 (1).SSF	572852.7639	33607
722004.204	4294308.563	10666	21-Dec-13	ALEX122113 (1).SSF	572853.8621	33608
722004.16	4294308.574	10736	21-Dec-13	ALEX122113 (1).SSF	572854.7939	33609
722004.114	4294308.592	9974	21-Dec-13	ALEX122113 (1).SSF	572855.844	33610
722004.069	4294308.617	8493	21-Dec-13	ALEX122113 (1).SSF	572856.824	33611
722004.014	4294308.645	7703	21-Dec-13	ALEX122113 (1).SSF	572857.948	33612
722003.997	4294308.655	9455	21-Dec-13	ALEX122113 (1).SSF	572858.781	33613
722003.968	4294308.674	10554	21-Dec-13	ALEX122113 (1).SSF	572859.8931	33614
722003.956	4294308.685	9808	21-Dec-13	ALEX122113 (1).SSF	572860.7429	33615
722003.925	4294308.697	10042	21-Dec-13	ALEX122113 (1).SSF	572861.875	33616
722003.949	4294308.677	9140	21-Dec-13	ALEX122113 (1).SSF	572862.709	33617
722003.974	4294308.657	8585	21-Dec-13	ALEX122113 (1).SSF	572863.8701	33618
722003.992	4294308.648	9346	21-Dec-13	ALEX122113 (1).SSF	572864.7991	33619
722004.132	4294308.678	10586	21-Dec-13	ALEX122113 (1).SSF	572865.8391	33620
722004	4294309.015	10476	21-Dec-13	ALEX122113 (1).SSF	572866.731	33621
722003.74	4294309.374	10029	21-Dec-13	ALEX122113 (1).SSF	572867.824	33622
722003.558	4294309.408	9707	21-Dec-13	ALEX122113 (1).SSF	572868.7439	33623
722003.638	4294309.321	9656	21-Dec-13	ALEX122113 (1).SSF	572869.8999	33624
722003.754	4294309.277	10304	21-Dec-13	ALEX122113 (1).SSF	572870.79	33625

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722003.823	4294309.201	9296	21-Dec-13	ALEX122113 (1).SSF	572871.9041	33626
722003.816	4294309.111	9164	21-Dec-13	ALEX122113 (1).SSF	572872.793	33627
722003.843	4294309.014	8621	21-Dec-13	ALEX122113 (1).SSF	572873.8359	33628
722003.859	4294308.971	8575	21-Dec-13	ALEX122113 (1).SSF	572874.7791	33629
722003.952	4294308.882	8983	21-Dec-13	ALEX122113 (1).SSF	572875.8701	33630
722004.025	4294308.818	9626	21-Dec-13	ALEX122113 (1).SSF	572876.863	33631
722004.061	4294308.795	9546	21-Dec-13	ALEX122113 (1).SSF	572877.8831	33632
722004.111	4294308.767	9796	21-Dec-13	ALEX122113 (1).SSF	572878.821	33633
722004.198	4294308.763	9859	21-Dec-13	ALEX122113 (1).SSF	572879.8899	33634
722004.31	4294308.742	9274	21-Dec-13	ALEX122113 (1).SSF	572880.7581	33635
722004.201	4294308.747	8258	21-Dec-13	ALEX122113 (1).SSF	572881.8779	33636
722004.084	4294308.73	8634	21-Dec-13	ALEX122113 (1).SSF	572882.7251	33637
722004.146	4294308.706	8608	21-Dec-13	ALEX122113 (1).SSF	572883.8779	33638
722004.263	4294308.691	9832	21-Dec-13	ALEX122113 (1).SSF	572884.748	33639
722004.283	4294308.803	9688	21-Dec-13	ALEX122113 (1).SSF	572885.8159	33640
722004.271	4294308.884	9112	21-Dec-13	ALEX122113 (1).SSF	572886.7439	33641
722004.43	4294308.615	8848	21-Dec-13	ALEX122113 (1).SSF	572887.7791	33642
722004.674	4294308.101	9232	21-Dec-13	ALEX122113 (1).SSF	572888.7451	33643
722005.127	4294307.376	8818	21-Dec-13	ALEX122113 (1).SSF	572889.7681	33644
722005.673	4294306.764	8744	21-Dec-13	ALEX122113 (1).SSF	572890.75	33645
722006.382	4294305.982	9746	21-Dec-13	ALEX122113 (1).SSF	572891.843	33646
722006.837	4294305.276	9156	21-Dec-13	ALEX122113 (1).SSF	572892.7859	33647
722006.923	4294304.659	10119	21-Dec-13	ALEX122113 (1).SSF	572893.9761	33648
722006.759	4294304.604	9039	21-Dec-13	ALEX122113 (1).SSF	572894.824	33649
722006.443	4294305.16	9130	21-Dec-13	ALEX122113 (1).SSF	572896.0081	33650
722006.054	4294305.813	9422	21-Dec-13	ALEX122113 (1).SSF	572896.739	33651
722005.413	4294306.817	9105	21-Dec-13	ALEX122113 (1).SSF	572897.907	33652
722004.907	4294307.511	9806	21-Dec-13	ALEX122113 (1).SSF	572898.769	33653
722004.207	4294308.25	9891	21-Dec-13	ALEX122113 (1).SSF	572899.8391	33654
722003.729	4294308.682	8923	21-Dec-13	ALEX122113 (1).SSF	572900.6521	33655
722003.363	4294309.134	9700	21-Dec-13	ALEX122113 (1).SSF	572901.7791	33656
722003.29	4294309.326	8995	21-Dec-13	ALEX122113 (1).SSF	572902.6731	33657
722003.307	4294309.367	9598	21-Dec-13	ALEX122113 (1).SSF	572903.741	33658
722003.517	4294309.398	9299	21-Dec-13	ALEX122113 (1).SSF	572904.699	33659
722003.953	4294309.232	9435	21-Dec-13	ALEX122113 (1).SSF	572905.866	33660
722004.295	4294308.666	10128	21-Dec-13	ALEX122113 (1).SSF	572906.76	33661
722004.879	4294307.707	9582	21-Dec-13	ALEX122113 (1).SSF	572907.8989	33662
722005.295	4294307.09	9055	21-Dec-13	ALEX122113 (1).SSF	572908.7439	33663
722005.759	4294306.134	9164	21-Dec-13	ALEX122113 (1).SSF	572909.8999	33664
722006.168	4294305.421	9251	21-Dec-13	ALEX122113 (1).SSF	572910.749	33665
722006.747	4294304.758	8372	21-Dec-13	ALEX122113 (1).SSF	572911.8511	33666
722007.26	4294304.09	8483	21-Dec-13	ALEX122113 (1).SSF	572912.7729	33667
722007.686	4294303.182	8510	21-Dec-13	ALEX122113 (1).SSF	572913.925	33668
722008.103	4294302.667	8607	21-Dec-13	ALEX122113 (1).SSF	572914.7429	33669
722008.671	4294301.923	9652	21-Dec-13	ALEX122113 (1).SSF	572915.8779	33670
722009.055	4294301.283	9853	21-Dec-13	ALEX122113 (1).SSF	572916.7991	33671
722009.707	4294300.501	9813	21-Dec-13	ALEX122113 (1).SSF	572917.8721	33672

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722010.316	4294299.783	9533	21-Dec-13	ALEX122113 (1).SSF	572918.7971	33673
722010.886	4294298.886	8533	21-Dec-13	ALEX122113 (1).SSF	572919.8579	33674
722011.351	4294298.164	9693	21-Dec-13	ALEX122113 (1).SSF	572920.7361	33675
722011.957	4294297.465	9173	21-Dec-13	ALEX122113 (1).SSF	572921.772	33676
722012.513	4294296.785	8023	21-Dec-13	ALEX122113 (1).SSF	572922.71	33677
722013.131	4294295.799	9236	21-Dec-13	ALEX122113 (1).SSF	572923.844	33678
722013.658	4294295.071	9449	21-Dec-13	ALEX122113 (1).SSF	572924.771	33679
722014.375	4294294.181	8092	21-Dec-13	ALEX122113 (1).SSF	572925.8479	33680
722014.882	4294293.465	7873	21-Dec-13	ALEX122113 (1).SSF	572926.8459	33681
722015.449	4294292.711	8538	21-Dec-13	ALEX122113 (1).SSF	572927.9141	33682
722015.909	4294292.133	7534	21-Dec-13	ALEX122113 (1).SSF	572928.7351	33683
722016.458	4294291.308	6803	21-Dec-13	ALEX122113 (1).SSF	572929.885	33684
722016.955	4294290.678	7191	21-Dec-13	ALEX122113 (1).SSF	572930.7429	33685
722017.562	4294289.981	7197	21-Dec-13	ALEX122113 (1).SSF	572931.8181	33686
722018.039	4294289.241	6299	21-Dec-13	ALEX122113 (1).SSF	572932.7571	33687
722018.614	4294288.312	6322	21-Dec-13	ALEX122113 (1).SSF	572933.8501	33688
722019.093	4294287.748	5780	21-Dec-13	ALEX122113 (1).SSF	572934.6741	33689
722019.734	4294286.949	5493	21-Dec-13	ALEX122113 (1).SSF	572935.8491	33690
722020.175	4294286.284	5490	21-Dec-13	ALEX122113 (1).SSF	572936.781	33691
722020.719	4294285.614	5743	21-Dec-13	ALEX122113 (1).SSF	572937.823	33692
722021.227	4294284.916	5690	21-Dec-13	ALEX122113 (1).SSF	572938.7839	33693
722021.758	4294284.124	5586	21-Dec-13	ALEX122113 (1).SSF	572939.825	33694
722022.467	4294283.397	5977	21-Dec-13	ALEX122113 (1).SSF	572940.7539	33695
722023.278	4294282.549	6246	21-Dec-13	ALEX122113 (1).SSF	572941.7891	33696
722023.898	4294281.7	6241	21-Dec-13	ALEX122113 (1).SSF	572942.7939	33697
722024.533	4294280.831	6480	21-Dec-13	ALEX122113 (1).SSF	572943.8101	33698
722025.139	4294280.07	6180	21-Dec-13	ALEX122113 (1).SSF	572944.7749	33699
722025.863	4294279.234	6315	21-Dec-13	ALEX122113 (1).SSF	572945.873	33700
722026.428	4294278.448	6168	21-Dec-13	ALEX122113 (1).SSF	572946.822	33701
722027.061	4294277.548	5313	21-Dec-13	ALEX122113 (1).SSF	572947.9819	33702
722027.561	4294276.974	5388	21-Dec-13	ALEX122113 (1).SSF	572948.8369	33703
722028.096	4294276.228	5663	21-Dec-13	ALEX122113 (1).SSF	572949.8369	33704
722028.622	4294275.43	5623	21-Dec-13	ALEX122113 (1).SSF	572950.804	33705
722029.298	4294274.614	5638	21-Dec-13	ALEX122113 (1).SSF	572951.8191	33706
722029.938	4294273.976	5706	21-Dec-13	ALEX122113 (1).SSF	572952.7629	33707
722030.626	4294273.082	5992	21-Dec-13	ALEX122113 (1).SSF	572953.9199	33708
722031.155	4294272.325	6027	21-Dec-13	ALEX122113 (1).SSF	572954.762	33709
722031.938	4294271.486	5812	21-Dec-13	ALEX122113 (1).SSF	572955.9089	33710
722032.384	4294270.901	6127	21-Dec-13	ALEX122113 (1).SSF	572956.75	33711
722032.829	4294270.063	5942	21-Dec-13	ALEX122113 (1).SSF	572957.844	33712
722033.336	4294269.417	6047	21-Dec-13	ALEX122113 (1).SSF	572958.804	33713
722033.822	4294268.904	5875	21-Dec-13	ALEX122113 (1).SSF	572959.8369	33714
722033.939	4294268.692	5787	21-Dec-13	ALEX122113 (1).SSF	572960.7129	33715
722033.823	4294268.686	7090	21-Dec-13	ALEX122113 (1).SSF	572961.8069	33716
722033.705	4294268.792	7112	21-Dec-13	ALEX122113 (1).SSF	572962.7061	33717
722033.526	4294269.27	6458	21-Dec-13	ALEX122113 (1).SSF	572963.8899	33718
722033.417	4294269.706	5391	21-Dec-13	ALEX122113 (1).SSF	572964.762	33719

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722033.659	4294269.893	4960	21-Dec-13	ALEX122113 (1).SSF	572965.762	33720
722034.268	4294270.058	5362	21-Dec-13	ALEX122113 (1).SSF	572966.696	33721
722035.105	4294270.249	5821	21-Dec-13	ALEX122113 (1).SSF	572967.8159	33722
722035.809	4294270.032	5569	21-Dec-13	ALEX122113 (1).SSF	572968.7009	33723
722036.376	4294269.965	5518	21-Dec-13	ALEX122113 (1).SSF	572969.814	33724
722036.388	4294270.336	5676	21-Dec-13	ALEX122113 (1).SSF	572970.688	33725
722036.145	4294270.644	5780	21-Dec-13	ALEX122113 (1).SSF	572971.7791	33726
722035.629	4294270.953	6652	21-Dec-13	ALEX122113 (1).SSF	572972.709	33727
722034.886	4294271.495	6673	21-Dec-13	ALEX122113 (1).SSF	572973.7791	33728
722034.335	4294272.095	6588	21-Dec-13	ALEX122113 (1).SSF	572974.7161	33729
722033.804	4294272.782	6567	21-Dec-13	ALEX122113 (1).SSF	572975.7451	33730
722033.251	4294273.373	5852	21-Dec-13	ALEX122113 (1).SSF	572976.678	33731
722032.466	4294274.139	5842	21-Dec-13	ALEX122113 (1).SSF	572977.821	33732
722031.914	4294274.775	6031	21-Dec-13	ALEX122113 (1).SSF	572978.7419	33733
722031.215	4294275.536	6040	21-Dec-13	ALEX122113 (1).SSF	572979.8	33734
722030.699	4294276.098	5527	21-Dec-13	ALEX122113 (1).SSF	572980.6941	33735
722030.142	4294276.872	5801	21-Dec-13	ALEX122113 (1).SSF	572981.823	33736
722029.66	4294277.517	5993	21-Dec-13	ALEX122113 (1).SSF	572982.7681	33737
722029.069	4294278.115	6387	21-Dec-13	ALEX122113 (1).SSF	572983.842	33738
722028.778	4294278.249	6247	21-Dec-13	ALEX122113 (1).SSF	572984.699	33739
722029.089	4294278.11	6242	21-Dec-13	ALEX122113 (1).SSF	572985.8149	33740
722029.646	4294277.817	6510	21-Dec-13	ALEX122113 (1).SSF	572986.793	33741
722030.215	4294277.201	6307	21-Dec-13	ALEX122113 (1).SSF	572987.791	33742
722030.787	4294276.368	6287	21-Dec-13	ALEX122113 (1).SSF	572988.76	33743
722031.529	4294275.466	6191	21-Dec-13	ALEX122113 (1).SSF	572989.8301	33744
722032.33	4294274.847	6108	21-Dec-13	ALEX122113 (1).SSF	572990.812	33745
722033.143	4294274.104	5620	21-Dec-13	ALEX122113 (1).SSF	572991.8669	33746
722033.681	4294273.425	6131	21-Dec-13	ALEX122113 (1).SSF	572992.74	33747
722034.568	4294272.564	6693	21-Dec-13	ALEX122113 (1).SSF	572993.8269	33748
722035.349	4294271.905	5869	21-Dec-13	ALEX122113 (1).SSF	572994.751	33749
722036.163	4294271.057	5836	21-Dec-13	ALEX122113 (1).SSF	572995.7991	33750
722036.862	4294270.221	5998	21-Dec-13	ALEX122113 (1).SSF	572996.72	33751
722037.813	4294269.317	6329	21-Dec-13	ALEX122113 (1).SSF	572997.845	33752
722038.462	4294268.737	6112	21-Dec-13	ALEX122113 (1).SSF	572998.7051	33753
722039.122	4294267.97	6658	21-Dec-13	ALEX122113 (1).SSF	572999.874	33754
722039.66	4294267.41	6974	21-Dec-13	ALEX122113 (1).SSF	573000.6741	33755
722040.377	4294266.767	6453	21-Dec-13	ALEX122113 (1).SSF	573001.7151	33756
722040.968	4294266.101	5933	21-Dec-13	ALEX122113 (1).SSF	573002.7061	33757
722041.518	4294265.271	6060	21-Dec-13	ALEX122113 (1).SSF	573003.782	33758
722042.082	4294264.65	6255	21-Dec-13	ALEX122113 (1).SSF	573004.6479	33759
722042.891	4294263.914	5510	21-Dec-13	ALEX122113 (1).SSF	573005.7949	33760
722043.536	4294263.254	6152	21-Dec-13	ALEX122113 (1).SSF	573006.729	33761
722044.295	4294262.45	5768	21-Dec-13	ALEX122113 (1).SSF	573007.7959	33762
722044.955	4294261.844	5658	21-Dec-13	ALEX122113 (1).SSF	573008.7949	33763
722045.618	4294261.213	5732	21-Dec-13	ALEX122113 (1).SSF	573009.7991	33764
722046.268	4294260.535	5909	21-Dec-13	ALEX122113 (1).SSF	573010.8101	33765
722047.009	4294259.828	6431	21-Dec-13	ALEX122113 (1).SSF	573011.8491	33766

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722047.658	4294259.212	6167	21-Dec-13	ALEX122113 (1).SSF	573012.7671	33767
722048.42	4294258.389	6281	21-Dec-13	ALEX122113 (1).SSF	573013.793	33768
722049.16	4294257.579	6400	21-Dec-13	ALEX122113 (1).SSF	573014.792	33769
722049.982	4294256.873	6580	21-Dec-13	ALEX122113 (1).SSF	573015.781	33770
722050.694	4294256.218	7045	21-Dec-13	ALEX122113 (1).SSF	573016.759	33771
722051.393	4294255.337	6981	21-Dec-13	ALEX122113 (1).SSF	573017.8359	33772
722051.962	4294254.585	7025	21-Dec-13	ALEX122113 (1).SSF	573018.752	33773
722052.738	4294253.83	5506	21-Dec-13	ALEX122113 (1).SSF	573019.791	33774
722053.47	4294253.163	6404	21-Dec-13	ALEX122113 (1).SSF	573020.77	33775
722054.117	4294252.443	5971	21-Dec-13	ALEX122113 (1).SSF	573021.814	33776
722054.67	4294251.766	6379	21-Dec-13	ALEX122113 (1).SSF	573022.77	33777
722055.235	4294251.232	6364	21-Dec-13	ALEX122113 (1).SSF	573023.7671	33778
722055.562	4294250.939	6451	21-Dec-13	ALEX122113 (1).SSF	573024.6841	33779
722055.649	4294250.783	6712	21-Dec-13	ALEX122113 (1).SSF	573025.7571	33780
722055.536	4294250.785	6628	21-Dec-13	ALEX122113 (1).SSF	573026.699	33781
722055.274	4294250.942	5917	21-Dec-13	ALEX122113 (1).SSF	573027.7839	33782
722055.109	4294251.053	5841	21-Dec-13	ALEX122113 (1).SSF	573028.655	33783
722055.008	4294251.026	6180	21-Dec-13	ALEX122113 (1).SSF	573029.7161	33784
722054.699	4294251.186	6157	21-Dec-13	ALEX122113 (1).SSF	573030.6909	33785
722053.944	4294251.955	6509	21-Dec-13	ALEX122113 (1).SSF	573031.8979	33786
722053.339	4294252.583	6667	21-Dec-13	ALEX122113 (1).SSF	573032.6899	33787
722052.443	4294253.378	6346	21-Dec-13	ALEX122113 (1).SSF	573033.8059	33788
722051.706	4294253.992	6476	21-Dec-13	ALEX122113 (1).SSF	573034.7549	33789
722050.913	4294254.81	6449	21-Dec-13	ALEX122113 (1).SSF	573035.823	33790
722050.248	4294255.601	7012	21-Dec-13	ALEX122113 (1).SSF	573036.665	33791
722049.391	4294256.635	7033	21-Dec-13	ALEX122113 (1).SSF	573037.7629	33792
722048.644	4294257.485	6348	21-Dec-13	ALEX122113 (1).SSF	573038.7371	33793
722047.82	4294258.302	7317	21-Dec-13	ALEX122113 (1).SSF	573039.7561	33794
722046.965	4294259.097	7259	21-Dec-13	ALEX122113 (1).SSF	573040.7429	33795
722046.167	4294259.963	6345	21-Dec-13	ALEX122113 (1).SSF	573041.8611	33796
722045.588	4294260.714	6836	21-Dec-13	ALEX122113 (1).SSF	573042.7871	33797
722044.864	4294261.562	6629	21-Dec-13	ALEX122113 (1).SSF	573043.804	33798
722044.152	4294262.304	6487	21-Dec-13	ALEX122113 (1).SSF	573044.8201	33799
722043.378	4294263.014	5971	21-Dec-13	ALEX122113 (1).SSF	573045.8149	33800
722042.634	4294263.584	6186	21-Dec-13	ALEX122113 (1).SSF	573046.6699	33801
722041.753	4294264.409	6174	21-Dec-13	ALEX122113 (1).SSF	573047.832	33802
722041.245	4294265.075	6043	21-Dec-13	ALEX122113 (1).SSF	573048.6699	33803
722040.489	4294265.961	6361	21-Dec-13	ALEX122113 (1).SSF	573049.7939	33804
722039.743	4294266.676	6210	21-Dec-13	ALEX122113 (1).SSF	573050.7891	33805
722039.006	4294267.302	6532	21-Dec-13	ALEX122113 (1).SSF	573051.811	33806
722038.408	4294268.041	6583	21-Dec-13	ALEX122113 (1).SSF	573052.79	33807
722037.769	4294268.96	5543	21-Dec-13	ALEX122113 (1).SSF	573053.8379	33808
722037.194	4294269.703	6073	21-Dec-13	ALEX122113 (1).SSF	573054.7209	33809
722036.359	4294270.62	6027	21-Dec-13	ALEX122113 (1).SSF	573055.8621	33810
722035.708	4294271.225	5917	21-Dec-13	ALEX122113 (1).SSF	573056.7209	33811
722034.931	4294272.017	6554	21-Dec-13	ALEX122113 (1).SSF	573057.7959	33812
722034.356	4294272.733	6528	21-Dec-13	ALEX122113 (1).SSF	573058.7	33813

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722033.614	4294273.553	6552	21-Dec-13	ALEX122113 (1).SSF	573059.8169	33814
722032.939	4294274.197	6528	21-Dec-13	ALEX122113 (1).SSF	573060.7661	33815
722032.273	4294274.964	6342	21-Dec-13	ALEX122113 (1).SSF	573061.811	33816
722031.716	4294275.751	6025	21-Dec-13	ALEX122113 (1).SSF	573062.7241	33817
722031.028	4294276.617	5804	21-Dec-13	ALEX122113 (1).SSF	573063.8269	33818
722030.39	4294277.217	6331	21-Dec-13	ALEX122113 (1).SSF	573064.751	33819
722029.672	4294277.877	6442	21-Dec-13	ALEX122113 (1).SSF	573065.822	33820
722029.156	4294278.575	6110	21-Dec-13	ALEX122113 (1).SSF	573066.7729	33821
722028.596	4294279.346	5997	21-Dec-13	ALEX122113 (1).SSF	573067.77	33822
722028.012	4294279.995	5916	21-Dec-13	ALEX122113 (1).SSF	573068.729	33823
722027.337	4294280.744	5585	21-Dec-13	ALEX122113 (1).SSF	573069.8479	33824
722026.942	4294281.455	5729	21-Dec-13	ALEX122113 (1).SSF	573070.707	33825
722026.374	4294282.387	6573	21-Dec-13	ALEX122113 (1).SSF	573071.8091	33826
722025.79	4294283.017	6743	21-Dec-13	ALEX122113 (1).SSF	573072.7429	33827
722025.443	4294283.359	7265	21-Dec-13	ALEX122113 (1).SSF	573073.76	33828
722025.458	4294283.339	6346	21-Dec-13	ALEX122113 (1).SSF	573074.7439	33829
722025.472	4294283.271	6776	21-Dec-13	ALEX122113 (1).SSF	573075.7241	33830
722025.473	4294283.204	5684	21-Dec-13	ALEX122113 (1).SSF	573076.676	33831
722025.486	4294283.133	6121	21-Dec-13	ALEX122113 (1).SSF	573077.728	33832
722025.392	4294283.271	6900	21-Dec-13	ALEX122113 (1).SSF	573078.678	33833
722024.982	4294283.679	6495	21-Dec-13	ALEX122113 (1).SSF	573079.728	33834
722024.351	4294284.193	6080	21-Dec-13	ALEX122113 (1).SSF	573080.7209	33835
722023.755	4294284.796	7460	21-Dec-13	ALEX122113 (1).SSF	573081.7759	33836
722023.272	4294285.385	6785	21-Dec-13	ALEX122113 (1).SSF	573082.658	33837
722022.62	4294286.161	6024	21-Dec-13	ALEX122113 (1).SSF	573083.7351	33838
722021.96	4294286.736	6459	21-Dec-13	ALEX122113 (1).SSF	573084.6831	33839
722021.241	4294287.353	6624	21-Dec-13	ALEX122113 (1).SSF	573085.824	33840
722020.777	4294288.059	6024	21-Dec-13	ALEX122113 (1).SSF	573086.7781	33841
722020.214	4294288.847	6609	21-Dec-13	ALEX122113 (1).SSF	573087.8369	33842
722019.623	4294289.365	6542	21-Dec-13	ALEX122113 (1).SSF	573088.7241	33843
722018.962	4294290.037	6465	21-Dec-13	ALEX122113 (1).SSF	573089.7739	33844
722018.751	4294290.46	6369	21-Dec-13	ALEX122113 (1).SSF	573090.6421	33845
722018.679	4294290.604	6752	21-Dec-13	ALEX122113 (1).SSF	573091.7529	33846
722018.562	4294290.81	6878	21-Dec-13	ALEX122113 (1).SSF	573092.6489	33847
722018.139	4294291.412	6579	21-Dec-13	ALEX122113 (1).SSF	573093.7632	33848
722017.702	4294292.069	6805	21-Dec-13	ALEX122113 (1).SSF	573094.7002	33849
722017.414	4294292.944	7191	21-Dec-13	ALEX122113 (1).SSF	573095.7861	33850
722017.138	4294293.69	8247	21-Dec-13	ALEX122113 (1).SSF	573096.6538	33851
722016.581	4294294.709	8542	21-Dec-13	ALEX122113 (1).SSF	573097.7959	33852
722016.034	4294295.464	8315	21-Dec-13	ALEX122113 (1).SSF	573098.6899	33853
722015.355	4294296.345	9218	21-Dec-13	ALEX122113 (1).SSF	573099.7759	33854
722014.877	4294297.157	9084	21-Dec-13	ALEX122113 (1).SSF	573100.7422	33855
722014.419	4294297.972	8601	21-Dec-13	ALEX122113 (1).SSF	573101.8101	33856
722014.141	4294298.385	8810	21-Dec-13	ALEX122113 (1).SSF	573102.7642	33857
722014.044	4294298.476	10152	21-Dec-13	ALEX122113 (1).SSF	573103.8159	33858
722014.068	4294298.491	8868	21-Dec-13	ALEX122113 (1).SSF	573104.7598	33859
722013.982	4294298.499	8757	21-Dec-13	ALEX122113 (1).SSF	573105.7651	33860

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722013.708	4294298.696	9359	21-Dec-13	ALEX122113 (1).SSF	573106.6909	33861
722013.251	4294299.261	9540	21-Dec-13	ALEX122113 (1).SSF	573107.7729	33862
722012.802	4294299.705	8775	21-Dec-13	ALEX122113 (1).SSF	573108.689	33863
722012.253	4294299.885	9633	21-Dec-13	ALEX122113 (1).SSF	573109.731	33864
722011.702	4294300.04	9638	21-Dec-13	ALEX122113 (1).SSF	573110.7119	33865
722011.283	4294300.667	8739	21-Dec-13	ALEX122113 (1).SSF	573111.7148	33866
722011.113	4294301.529	9655	21-Dec-13	ALEX122113 (1).SSF	573112.666	33867
722010.945	4294302.617	9853	21-Dec-13	ALEX122113 (1).SSF	573113.793	33868
722010.645	4294303.401	9633	21-Dec-13	ALEX122113 (1).SSF	573114.6411	33869
722010.154	4294304.253	10208	21-Dec-13	ALEX122113 (1).SSF	573115.6899	33870
722009.738	4294305.033	8942	21-Dec-13	ALEX122113 (1).SSF	573116.6401	33871
722009.359	4294305.985	10245	21-Dec-13	ALEX122113 (1).SSF	573117.7202	33872
722008.942	4294306.836	10211	21-Dec-13	ALEX122113 (1).SSF	573118.6992	33873
722008.48	4294307.672	9513	21-Dec-13	ALEX122113 (1).SSF	573119.7441	33874
722008.174	4294308.493	8918	21-Dec-13	ALEX122113 (1).SSF	573120.689	33875
722007.681	4294309.193	9429	21-Dec-13	ALEX122113 (1).SSF	573121.7549	33876
722006.906	4294309.265	9767	21-Dec-13	ALEX122113 (1).SSF	573122.7378	33877
722006.007	4294308.956	8861	21-Dec-13	ALEX122113 (1).SSF	573123.7891	33878
722005.122	4294308.705	9475	21-Dec-13	ALEX122113 (1).SSF	573124.7788	33879
722004.24	4294308.492	9929	21-Dec-13	ALEX122113 (1).SSF	573125.7588	33880
722003.836	4294308.131	8932	21-Dec-13	ALEX122113 (1).SSF	573126.6719	33881
722003.849	4294307.831	8743	21-Dec-13	ALEX122113 (1).SSF	573127.7891	33882
722003.917	4294307.803	9445	21-Dec-13	ALEX122113 (1).SSF	573128.6992	33883
722004.089	4294307.76	8991	21-Dec-13	ALEX122113 (1).SSF	573129.7598	33884
722004.34	4294307.623	8847	21-Dec-13	ALEX122113 (1).SSF	573130.6709	33885
722004.775	4294307.251	9532	21-Dec-13	ALEX122113 (1).SSF	573131.7832	33886
722005.236	4294306.705	9643	21-Dec-13	ALEX122113 (1).SSF	573132.686	33887
722005.93	4294305.908	8740	21-Dec-13	ALEX122113 (1).SSF	573133.8481	33888
722006.484	4294305.378	8695	21-Dec-13	ALEX122113 (1).SSF	573134.6621	33889
722006.941	4294304.736	9283	21-Dec-13	ALEX122113 (1).SSF	573135.7129	33890
722007.329	4294304.271	9251	21-Dec-13	ALEX122113 (1).SSF	573136.624	33891
722007.937	4294303.788	8702	21-Dec-13	ALEX122113 (1).SSF	573137.7231	33892
722008.457	4294303.222	9315	21-Dec-13	ALEX122113 (1).SSF	573138.6602	33893
722009.091	4294302.465	9258	21-Dec-13	ALEX122113 (1).SSF	573139.7378	33894
722009.554	4294301.883	9454	21-Dec-13	ALEX122113 (1).SSF	573140.6621	33895
722010.033	4294301.195	9833	21-Dec-13	ALEX122113 (1).SSF	573141.7051	33896
722010.519	4294300.545	8608	21-Dec-13	ALEX122113 (1).SSF	573142.6621	33897
722011.131	4294299.986	9442	21-Dec-13	ALEX122113 (1).SSF	573143.7349	33898
722011.698	4294299.416	8360	21-Dec-13	ALEX122113 (1).SSF	573144.6519	33899
722012.332	4294298.612	10040	21-Dec-13	ALEX122113 (1).SSF	573145.7559	33900
722012.828	4294298.042	10160	21-Dec-13	ALEX122113 (1).SSF	573146.6802	33901
722013.529	4294297.235	9590	21-Dec-13	ALEX122113 (1).SSF	573147.771	33902
722014.135	4294296.429	9987	21-Dec-13	ALEX122113 (1).SSF	573148.7178	33903
722014.849	4294295.614	8017	21-Dec-13	ALEX122113 (1).SSF	573149.749	33904
722015.43	4294295.013	7764	21-Dec-13	ALEX122113 (1).SSF	573150.5991	33905
722016.214	4294294.121	7731	21-Dec-13	ALEX122113 (1).SSF	573151.7412	33906
722016.721	4294293.419	6762	21-Dec-13	ALEX122113 (1).SSF	573152.6162	33907

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722017.344	4294292.604	7150	21-Dec-13	ALEX122113 (1).SSF	573153.7358	33908
722017.813	4294291.943	7937	21-Dec-13	ALEX122113 (1).SSF	573154.6738	33909
722018.398	4294291.102	6994	21-Dec-13	ALEX122113 (1).SSF	573155.7808	33910
722018.953	4294290.481	6728	21-Dec-13	ALEX122113 (1).SSF	573156.6572	33911
722019.742	4294289.76	6272	21-Dec-13	ALEX122113 (1).SSF	573157.7881	33912
722020.208	4294289.231	6878	21-Dec-13	ALEX122113 (1).SSF	573158.6538	33913
722020.795	4294288.489	7539	21-Dec-13	ALEX122113 (1).SSF	573159.7061	33914
722021.174	4294287.953	6145	21-Dec-13	ALEX122113 (1).SSF	573160.7261	33915
722021.232	4294287.839	6666	21-Dec-13	ALEX122113 (1).SSF	573161.791	33916
722021.283	4294287.859	6646	21-Dec-13	ALEX122113 (1).SSF	573162.7222	33917
722021.298	4294287.842	5681	21-Dec-13	ALEX122113 (1).SSF	573163.7319	33918
722021.245	4294287.814	6083	21-Dec-13	ALEX122113 (1).SSF	573164.7471	33919
722021.206	4294287.805	7220	21-Dec-13	ALEX122113 (1).SSF	573165.748	33920
722021.178	4294287.804	7205	21-Dec-13	ALEX122113 (1).SSF	573166.7002	33921
722021.054	4294287.722	6781	21-Dec-13	ALEX122113 (1).SSF	573167.7651	33922
722021.116	4294287.379	7035	21-Dec-13	ALEX122113 (1).SSF	573168.6938	33923
722021.502	4294286.839	6828	21-Dec-13	ALEX122113 (1).SSF	573169.71	33924
722021.88	4294286.331	6627	21-Dec-13	ALEX122113 (1).SSF	573170.6909	33925
722022.403	4294285.649	7297	21-Dec-13	ALEX122113 (1).SSF	573171.7192	33926
722022.84	4294285.056	6054	21-Dec-13	ALEX122113 (1).SSF	573172.6689	33927
722023.41	4294284.406	6290	21-Dec-13	ALEX122113 (1).SSF	573173.772	33928
722024.013	4294283.772	5748	21-Dec-13	ALEX122113 (1).SSF	573174.6992	33929
722024.727	4294282.9	5873	21-Dec-13	ALEX122113 (1).SSF	573175.7822	33930
722025.383	4294282.089	6183	21-Dec-13	ALEX122113 (1).SSF	573176.7368	33931
722026.088	4294281.353	5146	21-Dec-13	ALEX122113 (1).SSF	573177.8242	33932
722026.735	4294280.797	6014	21-Dec-13	ALEX122113 (1).SSF	573178.667	33933
722027.59	4294280.056	6470	21-Dec-13	ALEX122113 (1).SSF	573179.7832	33934
722028.212	4294279.484	6297	21-Dec-13	ALEX122113 (1).SSF	573180.6738	33935
722028.887	4294278.705	6734	21-Dec-13	ALEX122113 (1).SSF	573181.7202	33936
722029.459	4294277.983	6213	21-Dec-13	ALEX122113 (1).SSF	573182.6382	33937
722030.123	4294277.257	6473	21-Dec-13	ALEX122113 (1).SSF	573183.7349	33938
722030.757	4294276.577	6388	21-Dec-13	ALEX122113 (1).SSF	573184.6499	33939
722031.413	4294275.764	5827	21-Dec-13	ALEX122113 (1).SSF	573185.7808	33940
722032.007	4294275.166	6400	21-Dec-13	ALEX122113 (1).SSF	573186.731	33941
722032.802	4294274.465	5880	21-Dec-13	ALEX122113 (1).SSF	573187.8208	33942
722033.367	4294273.849	5962	21-Dec-13	ALEX122113 (1).SSF	573188.6689	33943
722034.005	4294273	5610	21-Dec-13	ALEX122113 (1).SSF	573189.7378	33944
722034.526	4294272.293	5706	21-Dec-13	ALEX122113 (1).SSF	573190.6538	33945
722035.15	4294271.499	6112	21-Dec-13	ALEX122113 (1).SSF	573191.7471	33946
722035.635	4294270.805	6478	21-Dec-13	ALEX122113 (1).SSF	573192.6831	33947
722036.22	4294269.993	6179	21-Dec-13	ALEX122113 (1).SSF	573193.7871	33948
722036.619	4294269.396	7005	21-Dec-13	ALEX122113 (1).SSF	573194.7261	33949
722037.136	4294268.692	6491	21-Dec-13	ALEX122113 (1).SSF	573195.731	33950
722037.724	4294268.011	6662	21-Dec-13	ALEX122113 (1).SSF	573196.6489	33951
722038.456	4294267.28	6075	21-Dec-13	ALEX122113 (1).SSF	573197.7529	33952
722039.032	4294266.538	6798	21-Dec-13	ALEX122113 (1).SSF	573198.7451	33953
722039.646	4294265.703	6679	21-Dec-13	ALEX122113 (1).SSF	573199.7808	33954

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722040.262	4294265.102	7640	21-Dec-13	ALEX122113 (1).SSF	573200.6489	33955
722041.042	4294264.441	6920	21-Dec-13	ALEX122113 (1).SSF	573201.7549	33956
722041.629	4294263.854	6920	21-Dec-13	ALEX122113 (1).SSF	573202.605	33957
722042.399	4294263.116	6080	21-Dec-13	ALEX122113 (1).SSF	573203.6768	33958
722043.049	4294262.582	5660	21-Dec-13	ALEX122113 (1).SSF	573204.5898	33959
722043.859	4294261.792	6011	21-Dec-13	ALEX122113 (1).SSF	573205.7651	33960
722044.373	4294261.135	6409	21-Dec-13	ALEX122113 (1).SSF	573206.6548	33961
722045.082	4294260.424	6213	21-Dec-13	ALEX122113 (1).SSF	573207.7119	33962
722045.719	4294259.862	5903	21-Dec-13	ALEX122113 (1).SSF	573208.7012	33963
722046.405	4294259.216	6338	21-Dec-13	ALEX122113 (1).SSF	573209.708	33964
722047.1	4294258.504	7284	21-Dec-13	ALEX122113 (1).SSF	573210.6802	33965
722047.906	4294257.775	7071	21-Dec-13	ALEX122113 (1).SSF	573211.6748	33966
722048.647	4294257.211	6567	21-Dec-13	ALEX122113 (1).SSF	573212.5908	33967
722049.421	4294256.621	7672	21-Dec-13	ALEX122113 (1).SSF	573213.6851	33968
722050.046	4294256.125	7318	21-Dec-13	ALEX122113 (1).SSF	573214.6108	33969
722050.653	4294255.611	6389	21-Dec-13	ALEX122113 (1).SSF	573215.749	33970
722051.123	4294255.097	5767	21-Dec-13	ALEX122113 (1).SSF	573216.6592	33971
722051.771	4294254.427	6341	21-Dec-13	ALEX122113 (1).SSF	573217.7598	33972
722052.334	4294253.946	6083	21-Dec-13	ALEX122113 (1).SSF	573218.6489	33973
722052.992	4294253.262	6290	21-Dec-13	ALEX122113 (1).SSF	573219.77	33974
722053.444	4294252.694	6222	21-Dec-13	ALEX122113 (1).SSF	573220.6328	33975
722054.02	4294252.038	7045	21-Dec-13	ALEX122113 (1).SSF	573221.7231	33976
722054.505	4294251.517	6651	21-Dec-13	ALEX122113 (1).SSF	573222.6289	33977
722055.109	4294250.751	6372	21-Dec-13	ALEX122113 (1).SSF	573223.7822	33978
722055.266	4294250.124	6183	21-Dec-13	ALEX122113 (1).SSF	573224.6948	33979
722055.023	4294249.368	6615	21-Dec-13	ALEX122113 (1).SSF	573225.75	33980
722054.451	4294248.836	7053	21-Dec-13	ALEX122113 (1).SSF	573226.708	33981
722053.94	4294248.427	6683	21-Dec-13	ALEX122113 (1).SSF	573227.7461	33982
722053.801	4294248.309	7161	21-Dec-13	ALEX122113 (1).SSF	573228.647	33983
722053.705	4294248.296	6410	21-Dec-13	ALEX122113 (1).SSF	573229.8018	33984
722053.594	4294248.328	7332	21-Dec-13	ALEX122113 (1).SSF	573230.7192	33985
722053.292	4294248.71	6813	21-Dec-13	ALEX122113 (1).SSF	573231.73	33986
722052.769	4294249.287	6323	21-Dec-13	ALEX122113 (1).SSF	573232.6582	33987
722052.042	4294249.878	5360	21-Dec-13	ALEX122113 (1).SSF	573233.7778	33988
722051.527	4294250.359	5415	21-Dec-13	ALEX122113 (1).SSF	573234.7051	33989
722051.002	4294250.981	6113	21-Dec-13	ALEX122113 (1).SSF	573235.7998	33990
722050.505	4294251.512	6358	21-Dec-13	ALEX122113 (1).SSF	573236.687	33991
722049.926	4294252.055	6449	21-Dec-13	ALEX122113 (1).SSF	573237.749	33992
722049.414	4294252.641	6772	21-Dec-13	ALEX122113 (1).SSF	573238.71	33993
722048.849	4294253.34	6823	21-Dec-13	ALEX122113 (1).SSF	573239.751	33994
722048.289	4294253.874	6445	21-Dec-13	ALEX122113 (1).SSF	573240.6621	33995
722047.489	4294254.436	7071	21-Dec-13	ALEX122113 (1).SSF	573241.7861	33996
722046.877	4294254.976	7527	21-Dec-13	ALEX122113 (1).SSF	573242.6489	33997
722046.206	4294255.703	7612	21-Dec-13	ALEX122113 (1).SSF	573243.7612	33998
722045.654	4294256.246	6283	21-Dec-13	ALEX122113 (1).SSF	573244.6489	33999
722044.956	4294256.976	6670	21-Dec-13	ALEX122113 (1).SSF	573245.793	34000
722044.449	4294257.587	6347	21-Dec-13	ALEX122113 (1).SSF	573246.6802	34001

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722043.719	4294258.375	6085	21-Dec-13	ALEX122113 (1).SSF	573247.8579	34002
722043.248	4294258.877	6051	21-Dec-13	ALEX122113 (1).SSF	573248.7168	34003
722042.615	4294259.587	7264	21-Dec-13	ALEX122113 (1).SSF	573249.8188	34004
722042.161	4294260.193	6406	21-Dec-13	ALEX122113 (1).SSF	573250.6509	34005
722041.539	4294260.911	6581	21-Dec-13	ALEX122113 (1).SSF	573251.6738	34006
722040.913	4294261.418	7855	21-Dec-13	ALEX122113 (1).SSF	573252.5942	34007
722040.214	4294262.054	7694	21-Dec-13	ALEX122113 (1).SSF	573253.6792	34008
722039.706	4294262.642	6543	21-Dec-13	ALEX122113 (1).SSF	573254.585	34009
722039.011	4294263.307	6795	21-Dec-13	ALEX122113 (1).SSF	573255.7349	34010
722038.445	4294263.861	7188	21-Dec-13	ALEX122113 (1).SSF	573256.6318	34011
722037.864	4294264.638	6867	21-Dec-13	ALEX122113 (1).SSF	573257.7432	34012
722037.303	4294265.227	6853	21-Dec-13	ALEX122113 (1).SSF	573258.688	34013
722036.76	4294265.695	7006	21-Dec-13	ALEX122113 (1).SSF	573259.689	34014
722036.303	4294266.295	6611	21-Dec-13	ALEX122113 (1).SSF	573260.646	34015
722035.685	4294267.062	6903	21-Dec-13	ALEX122113 (1).SSF	573261.77	34016
722035.172	4294267.531	7725	21-Dec-13	ALEX122113 (1).SSF	573262.6382	34017
722034.481	4294268.238	6281	21-Dec-13	ALEX122113 (1).SSF	573263.7598	34018
722033.971	4294268.892	5680	21-Dec-13	ALEX122113 (1).SSF	573264.6792	34019
722033.364	4294269.607	5932	21-Dec-13	ALEX122113 (1).SSF	573265.688	34020
722032.826	4294270.244	6169	21-Dec-13	ALEX122113 (1).SSF	573266.6519	34021
722032.34	4294270.989	6552	21-Dec-13	ALEX122113 (1).SSF	573267.6948	34022
722031.818	4294271.688	6147	21-Dec-13	ALEX122113 (1).SSF	573268.6548	34023
722031.068	4294272.424	6666	21-Dec-13	ALEX122113 (1).SSF	573269.7578	34024
722030.437	4294272.994	5935	21-Dec-13	ALEX122113 (1).SSF	573270.6841	34025
722029.835	4294273.733	5588	21-Dec-13	ALEX122113 (1).SSF	573271.749	34026
722029.33	4294274.431	6031	21-Dec-13	ALEX122113 (1).SSF	573272.6211	34027
722028.813	4294275.054	5516	21-Dec-13	ALEX122113 (1).SSF	573273.6738	34028
722028.563	4294275.205	5675	21-Dec-13	ALEX122113 (1).SSF	573274.5889	34029
722028.481	4294275.194	5690	21-Dec-13	ALEX122113 (1).SSF	573275.7451	34030
722028.529	4294275.148	5608	21-Dec-13	ALEX122113 (1).SSF	573276.645	34031
722028.588	4294275.127	6042	21-Dec-13	ALEX122113 (1).SSF	573277.7612	34032
722028.605	4294275.125	6106	21-Dec-13	ALEX122113 (1).SSF	573278.6699	34033
722028.638	4294275.137	6176	21-Dec-13	ALEX122113 (1).SSF	573279.7891	34034
722028.572	4294275.24	5616	21-Dec-13	ALEX122113 (1).SSF	573280.6548	34035
722028.313	4294275.521	5656	21-Dec-13	ALEX122113 (1).SSF	573281.7061	34036
722028.165	4294275.75	5401	21-Dec-13	ALEX122113 (1).SSF	573282.6509	34037
722028.155	4294275.848	5866	21-Dec-13	ALEX122113 (1).SSF	573283.793	34038
722027.954	4294276.019	5864	21-Dec-13	ALEX122113 (1).SSF	573284.6362	34039
722027.433	4294276.494	6224	21-Dec-13	ALEX122113 (1).SSF	573285.7412	34040
722026.922	4294277.05	5483	21-Dec-13	ALEX122113 (1).SSF	573286.6499	34041
722026.35	4294277.784	5844	21-Dec-13	ALEX122113 (1).SSF	573287.6938	34042
722025.813	4294278.422	5717	21-Dec-13	ALEX122113 (1).SSF	573288.625	34043
722025.242	4294279.066	5556	21-Dec-13	ALEX122113 (1).SSF	573289.7271	34044
722024.779	4294279.714	5847	21-Dec-13	ALEX122113 (1).SSF	573290.6582	34045
722024.24	4294280.525	5719	21-Dec-13	ALEX122113 (1).SSF	573291.771	34046
722023.679	4294281.126	5842	21-Dec-13	ALEX122113 (1).SSF	573292.7119	34047
722023.056	4294281.742	6158	21-Dec-13	ALEX122113 (1).SSF	573293.7412	34048

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722022.633	4294282.452	5759	21-Dec-13	ALEX122113 (1).SSF	573294.6611	34049
722022.131	4294283.291	5662	21-Dec-13	ALEX122113 (1).SSF	573295.749	34050
722021.689	4294283.778	6608	21-Dec-13	ALEX122113 (1).SSF	573296.5688	34051
722021.047	4294284.475	6872	21-Dec-13	ALEX122113 (1).SSF	573297.6592	34052
722020.537	4294285.163	6938	21-Dec-13	ALEX122113 (1).SSF	573298.5991	34053
722019.829	4294285.958	6174	21-Dec-13	ALEX122113 (1).SSF	573299.7349	34054
722019.23	4294286.507	5645	21-Dec-13	ALEX122113 (1).SSF	573300.645	34055
722018.55	4294287.277	6040	21-Dec-13	ALEX122113 (1).SSF	573301.687	34056
722017.928	4294288.069	6765	21-Dec-13	ALEX122113 (1).SSF	573302.6089	34057
722017.191	4294288.978	7601	21-Dec-13	ALEX122113 (1).SSF	573303.7178	34058
722016.632	4294289.512	7150	21-Dec-13	ALEX122113 (1).SSF	573304.5508	34059
722015.799	4294290.253	7697	21-Dec-13	ALEX122113 (1).SSF	573305.7622	34060
722015.221	4294290.891	7028	21-Dec-13	ALEX122113 (1).SSF	573306.6792	34061
722014.597	4294291.823	7673	21-Dec-13	ALEX122113 (1).SSF	573307.7788	34062
722014.086	4294292.666	7138	21-Dec-13	ALEX122113 (1).SSF	573308.708	34063
722013.322	4294293.437	7814	21-Dec-13	ALEX122113 (1).SSF	573309.75	34064
722012.611	4294294.052	8073	21-Dec-13	ALEX122113 (1).SSF	573310.666	34065
722012	4294294.883	8588	21-Dec-13	ALEX122113 (1).SSF	573311.688	34066
722011.562	4294295.641	8957	21-Dec-13	ALEX122113 (1).SSF	573312.606	34067
722010.988	4294296.458	8089	21-Dec-13	ALEX122113 (1).SSF	573313.7339	34068
722010.494	4294297.073	8352	21-Dec-13	ALEX122113 (1).SSF	573314.6431	34069
722009.999	4294297.913	7878	21-Dec-13	ALEX122113 (1).SSF	573315.731	34070
722009.617	4294298.667	9019	21-Dec-13	ALEX122113 (1).SSF	573316.6382	34071
722009.077	4294299.538	8434	21-Dec-13	ALEX122113 (1).SSF	573317.7598	34072
722008.547	4294300.128	10238	21-Dec-13	ALEX122113 (1).SSF	573318.6631	34073
722007.969	4294300.76	9999	21-Dec-13	ALEX122113 (1).SSF	573319.687	34074
722007.565	4294301.336	10090	21-Dec-13	ALEX122113 (1).SSF	573320.6548	34075
722007.118	4294301.906	9422	21-Dec-13	ALEX122113 (1).SSF	573321.6758	34076
722006.587	4294302.519	9435	21-Dec-13	ALEX122113 (1).SSF	573322.6968	34077
722006.173	4294303.2	9978	21-Dec-13	ALEX122113 (1).SSF	573323.7329	34078
722005.837	4294303.848	9274	21-Dec-13	ALEX122113 (1).SSF	573324.666	34079
722005.393	4294304.597	9158	21-Dec-13	ALEX122113 (1).SSF	573325.6992	34080
722005.124	4294305.327	9189	21-Dec-13	ALEX122113 (1).SSF	573326.6328	34081
722004.932	4294305.975	9527	21-Dec-13	ALEX122113 (1).SSF	573327.6548	34082
722004.677	4294306.303	9791	21-Dec-13	ALEX122113 (1).SSF	573328.6309	34083
722004.391	4294306.528	8808	21-Dec-13	ALEX122113 (1).SSF	573329.6748	34084
722004.079	4294307.003	9222	21-Dec-13	ALEX122113 (1).SSF	573330.6719	34085
722003.657	4294307.646	11215	21-Dec-13	ALEX122113 (1).SSF	573331.7231	34086
722003.197	4294308.03	9284	21-Dec-13	ALEX122113 (1).SSF	573332.6411	34087
722002.783	4294308.372	8381	21-Dec-13	ALEX122113 (1).SSF	573333.7612	34088
722002.714	4294308.557	8515	21-Dec-13	ALEX122113 (1).SSF	573334.6348	34089
722002.693	4294308.707	9568	21-Dec-13	ALEX122113 (1).SSF	573335.7339	34090
722002.688	4294308.734	9142	21-Dec-13	ALEX122113 (1).SSF	573336.644	34091
722002.702	4294308.712	10085	21-Dec-13	ALEX122113 (1).SSF	573337.75	34092
722002.747	4294308.691	8701	21-Dec-13	ALEX122113 (1).SSF	573338.6582	34093
722002.81	4294308.711	9435	21-Dec-13	ALEX122113 (1).SSF	573339.7402	34094
722002.735	4294308.632	9138	21-Dec-13	ALEX122113 (1).SSF	573340.6411	34095

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722002.543	4294308.509	9454	21-Dec-13	ALEX122113 (1).SSF	573341.6499	34096
722002.467	4294308.572	10103	21-Dec-13	ALEX122113 (1).SSF	573342.6592	34097
722002.46	4294308.693	8976	21-Dec-13	ALEX122113 (1).SSF	573343.7002	34098
722002.406	4294308.704	8934	21-Dec-13	ALEX122113 (1).SSF	573344.6089	34099
722002.339	4294308.693	8713	21-Dec-13	ALEX122113 (1).SSF	573345.751	34100
722002.323	4294308.481	9708	21-Dec-13	ALEX122113 (1).SSF	573346.665	34101
722002.414	4294308.135	9267	21-Dec-13	ALEX122113 (1).SSF	573347.6782	34102
722002.486	4294307.989	10056	21-Dec-13	ALEX122113 (1).SSF	573348.6689	34103
722002.492	4294308.019	9714	21-Dec-13	ALEX122113 (1).SSF	573349.73	34104
722002.547	4294308.066	9268	21-Dec-13	ALEX122113 (1).SSF	573350.6572	34105
722002.578	4294308.066	8617	21-Dec-13	ALEX122113 (1).SSF	573351.6851	34106
722002.524	4294308.046	8094	21-Dec-13	ALEX122113 (1).SSF	573352.582	34107
722002.474	4294308.056	8053	21-Dec-13	ALEX122113 (1).SSF	573353.7212	34108
722002.498	4294308.046	9363	21-Dec-13	ALEX122113 (1).SSF	573354.646	34109
722002.469	4294307.947	9660	21-Dec-13	ALEX122113 (1).SSF	573355.7148	34110
722002.404	4294307.908	9315	21-Dec-13	ALEX122113 (1).SSF	573356.7129	34111
722002.35	4294307.948	8748	21-Dec-13	ALEX122113 (1).SSF	573357.7261	34112
722002.342	4294307.994	9567	21-Dec-13	ALEX122113 (1).SSF	573358.667	34113
722002.42	4294307.989	9592	21-Dec-13	ALEX122113 (1).SSF	573359.6899	34114
722002.609	4294308.019	9418	21-Dec-13	ALEX122113 (1).SSF	573360.6309	34115
722002.799	4294308.075	8294	21-Dec-13	ALEX122113 (1).SSF	573361.6611	34116
722002.835	4294308.098	8673	21-Dec-13	ALEX122113 (1).SSF	573362.5479	34117
722002.785	4294308.172	9038	21-Dec-13	ALEX122113 (1).SSF	573363.6558	34118
722002.784	4294308.204	9849	21-Dec-13	ALEX122113 (1).SSF	573364.5781	34119
722002.793	4294308.21	9632	21-Dec-13	ALEX122113 (1).SSF	573365.6611	34120
722002.766	4294308.235	9518	21-Dec-13	ALEX122113 (1).SSF	573366.6089	34121
722002.725	4294308.243	8859	21-Dec-13	ALEX122113 (1).SSF	573367.6021	34122
722002.692	4294308.229	9385	21-Dec-13	ALEX122113 (1).SSF	573368.5928	34123
722002.677	4294308.199	9276	21-Dec-13	ALEX122113 (1).SSF	573369.6128	34124
722002.667	4294308.153	9099	21-Dec-13	ALEX122113 (1).SSF	573370.5732	34125
722002.64	4294308.124	9684	21-Dec-13	ALEX122113 (1).SSF	573371.623	34126
722002.613	4294308.13	9291	21-Dec-13	ALEX122113 (1).SSF	573372.5962	34127
722002.59	4294308.122	9102	21-Dec-13	ALEX122113 (1).SSF	573373.7109	34128
722002.58	4294308.09	9175	21-Dec-13	ALEX122113 (1).SSF	573374.6362	34129
722002.626	4294308.044	9524	21-Dec-13	ALEX122113 (1).SSF	573375.6948	34130
722002.685	4294308.054	8471	21-Dec-13	ALEX122113 (1).SSF	573376.6138	34131
722002.81	4294308.07	9137	21-Dec-13	ALEX122113 (1).SSF	573377.6108	34132
722002.803	4294308.196	9244	21-Dec-13	ALEX122113 (1).SSF	573378.5239	34133
722002.641	4294308.272	9211	21-Dec-13	ALEX122113 (1).SSF	573379.6812	34134
722002.517	4294308.206	8722	21-Dec-13	ALEX122113 (1).SSF	573380.6401	34135
722002.448	4294308.117	9890	21-Dec-13	ALEX122113 (1).SSF	573381.6719	34136
722002.446	4294308.038	9432	21-Dec-13	ALEX122113 (1).SSF	573382.5908	34137
722002.534	4294307.978	9678	21-Dec-13	ALEX122113 (1).SSF	573383.7002	34138
722002.685	4294307.936	9799	21-Dec-13	ALEX122113 (1).SSF	573384.5972	34139
722002.762	4294307.986	9379	21-Dec-13	ALEX122113 (1).SSF	573385.6538	34140
722002.777	4294307.938	9095	21-Dec-13	ALEX122113 (1).SSF	573386.5591	34141
722002.86	4294307.819	9443	21-Dec-13	ALEX122113 (1).SSF	573387.7148	34142

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722002.934	4294307.834	9801	21-Dec-13	ALEX122113 (1).SSF	573388.623	34143
722003.003	4294307.791	9080	21-Dec-13	ALEX122113 (1).SSF	573389.7031	34144
722003.003	4294307.769	9980	21-Dec-13	ALEX122113 (1).SSF	573390.5508	34145
722002.959	4294307.787	8885	21-Dec-13	ALEX122113 (1).SSF	573391.6958	34146
722002.955	4294307.808	9661	21-Dec-13	ALEX122113 (1).SSF	573392.585	34147
722003.007	4294307.834	8835	21-Dec-13	ALEX122113 (1).SSF	573393.626	34148
722003.073	4294307.866	8448	21-Dec-13	ALEX122113 (1).SSF	573394.5322	34149
722003.092	4294307.938	9312	21-Dec-13	ALEX122113 (1).SSF	573395.687	34150
722003.073	4294307.963	9288	21-Dec-13	ALEX122113 (1).SSF	573396.583	34151
722003.047	4294307.955	8412	21-Dec-13	ALEX122113 (1).SSF	573397.666	34152
722003.033	4294307.933	9153	21-Dec-13	ALEX122113 (1).SSF	573398.606	34153
722002.958	4294307.892	9098	21-Dec-13	ALEX122113 (1).SSF	573399.6299	34154
722002.918	4294307.903	9894	21-Dec-13	ALEX122113 (1).SSF	573400.5649	34155
722002.918	4294307.93	8713	21-Dec-13	ALEX122113 (1).SSF	573401.5952	34156
722002.913	4294307.864	10518	21-Dec-13	ALEX122113 (1).SSF	573402.5278	34157
722002.922	4294307.762	8779	21-Dec-13	ALEX122113 (1).SSF	573403.665	34158
722002.942	4294307.74	8704	21-Dec-13	ALEX122113 (1).SSF	573404.5068	34159
722002.948	4294307.755	10576	21-Dec-13	ALEX122113 (1).SSF	573405.627	34160
722002.906	4294307.787	9694	21-Dec-13	ALEX122113 (1).SSF	573406.5889	34161
722002.849	4294307.75	9143	21-Dec-13	ALEX122113 (1).SSF	573407.6108	34162
722002.82	4294307.683	9126	21-Dec-13	ALEX122113 (1).SSF	573408.5581	34163
722002.785	4294307.67	9541	21-Dec-13	ALEX122113 (1).SSF	573409.604	34164
722002.718	4294307.676	8595	21-Dec-13	ALEX122113 (1).SSF	573410.5708	34165
722002.659	4294307.605	8658	21-Dec-13	ALEX122113 (1).SSF	573411.6719	34166
722002.661	4294307.55	9364	21-Dec-13	ALEX122113 (1).SSF	573412.5718	34167
722002.76	4294307.549	8881	21-Dec-13	ALEX122113 (1).SSF	573413.689	34168
722002.846	4294307.559	8640	21-Dec-13	ALEX122113 (1).SSF	573414.626	34169
722002.899	4294307.561	9030	21-Dec-13	ALEX122113 (1).SSF	573415.7261	34170
722002.919	4294307.576	9367	21-Dec-13	ALEX122113 (1).SSF	573416.5811	34171
722002.948	4294307.616	9332	21-Dec-13	ALEX122113 (1).SSF	573417.7559	34172
722002.957	4294307.647	8513	21-Dec-13	ALEX122113 (1).SSF	573418.6528	34173
722002.962	4294307.667	8788	21-Dec-13	ALEX122113 (1).SSF	573419.729	34174
722002.939	4294307.684	9157	21-Dec-13	ALEX122113 (1).SSF	573420.54	34175
722002.913	4294307.741	8079	21-Dec-13	ALEX122113 (1).SSF	573421.645	34176
722002.948	4294307.764	8379	21-Dec-13	ALEX122113 (1).SSF	573422.5508	34177
722002.973	4294307.759	10045	21-Dec-13	ALEX122113 (1).SSF	573423.6558	34178
722003.007	4294307.802	9441	21-Dec-13	ALEX122113 (1).SSF	573424.5771	34179
722003.098	4294307.954	8780	21-Dec-13	ALEX122113 (1).SSF	573425.6289	34180
722003.134	4294307.917	9215	21-Dec-13	ALEX122113 (1).SSF	573426.6309	34181
722003.148	4294307.66	9023	21-Dec-13	ALEX122113 (1).SSF	573427.6392	34182
722003.14	4294307.546	9036	21-Dec-13	ALEX122113 (1).SSF	573428.5649	34183
722003.094	4294307.48	9549	21-Dec-13	ALEX122113 (1).SSF	573429.6719	34184
722003.116	4294307.413	8867	21-Dec-13	ALEX122113 (1).SSF	573430.5532	34185
722003.231	4294307.345	9806	21-Dec-13	ALEX122113 (1).SSF	573431.6748	34186
722003.231	4294307.318	8661	21-Dec-13	ALEX122113 (1).SSF	573432.647	34187
722002.977	4294307.418	10385	21-Dec-13	ALEX122113 (1).SSF	573433.6841	34188
722002.658	4294307.631	10186	21-Dec-13	ALEX122113 (1).SSF	573434.5942	34189

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722002.317	4294307.794	9416	21-Dec-13	ALEX122113 (1).SSF	573435.6699	34190
722002.189	4294307.821	10348	21-Dec-13	ALEX122113 (1).SSF	573436.5679	34191
722002.305	4294307.997	9993	21-Dec-13	ALEX122113 (1).SSF	573437.6069	34192
722002.083	4294308.446	9188	21-Dec-13	ALEX122113 (1).SSF	573438.5229	34193
722001.343	4294308.919	9017	21-Dec-13	ALEX122113 (1).SSF	573439.6099	34194
722001.032	4294308.983	9574	21-Dec-13	ALEX122113 (1).SSF	573440.6338	34195
722001.05	4294308.76	9413	21-Dec-13	ALEX122113 (1).SSF	573441.6558	34196
722001.033	4294308.525	9883	21-Dec-13	ALEX122113 (1).SSF	573442.5552	34197
722001.011	4294308.351	9671	21-Dec-13	ALEX122113 (1).SSF	573443.6812	34198
722001.062	4294308.464	10487	21-Dec-13	ALEX122113 (1).SSF	573444.605	34199
722001.087	4294308.851	10451	21-Dec-13	ALEX122113 (1).SSF	573445.647	34200
722001.079	4294309.11	9723	21-Dec-13	ALEX122113 (1).SSF	573446.6211	34201
722001.085	4294309.111	9390	21-Dec-13	ALEX122113 (1).SSF	573447.7402	34202
722000.993	4294309.056	9487	21-Dec-13	ALEX122113 (1).SSF	573448.6128	34203
722000.854	4294309.045	9242	21-Dec-13	ALEX122113 (1).SSF	573449.6411	34204
722000.81	4294309.019	9510	21-Dec-13	ALEX122113 (1).SSF	573450.5732	34205
722000.795	4294309.018	9127	21-Dec-13	ALEX122113 (1).SSF	573451.5972	34206
722000.781	4294309.092	9122	21-Dec-13	ALEX122113 (1).SSF	573452.5249	34207
722000.781	4294309.017	9870	21-Dec-13	ALEX122113 (1).SSF	573453.603	34208
722000.858	4294308.742	10027	21-Dec-13	ALEX122113 (1).SSF	573454.5771	34209
722001.014	4294308.452	9437	21-Dec-13	ALEX122113 (1).SSF	573455.5952	34210
722001.188	4294308.273	10178	21-Dec-13	ALEX122113 (1).SSF	573456.5322	34211
722001.384	4294308.204	9972	21-Dec-13	ALEX122113 (1).SSF	573457.6509	34212
722001.434	4294308.25	9423	21-Dec-13	ALEX122113 (1).SSF	573458.5791	34213
722001.396	4294308.303	8475	21-Dec-13	ALEX122113 (1).SSF	573459.6201	34214
722001.362	4294308.316	9408	21-Dec-13	ALEX122113 (1).SSF	573460.5361	34215
722001.365	4294308.298	8382	21-Dec-13	ALEX122113 (1).SSF	573461.6548	34216
722001.397	4294308.258	8571	21-Dec-13	ALEX122113 (1).SSF	573462.6118	34217
722001.419	4294308.271	9876	21-Dec-13	ALEX122113 (1).SSF	573463.7158	34218
722001.424	4294308.309	8649	21-Dec-13	ALEX122113 (1).SSF	573464.6011	34219
722001.427	4294308.315	8852	21-Dec-13	ALEX122113 (1).SSF	573465.667	34220
722001.407	4294308.308	8753	21-Dec-13	ALEX122113 (1).SSF	573466.5801	34221
722001.344	4294308.271	9298	21-Dec-13	ALEX122113 (1).SSF	573467.6958	34222
722001.342	4294308.22	10064	21-Dec-13	ALEX122113 (1).SSF	573468.5972	34223
722001.344	4294308.202	9566	21-Dec-13	ALEX122113 (1).SSF	573469.7168	34224
722001.292	4294308.217	9081	21-Dec-13	ALEX122113 (1).SSF	573470.5742	34225
722001.228	4294308.163	9500	21-Dec-13	ALEX122113 (1).SSF	573471.6851	34226
722001.222	4294308.038	9755	21-Dec-13	ALEX122113 (1).SSF	573472.6172	34227
722001.228	4294307.919	9188	21-Dec-13	ALEX122113 (1).SSF	573473.6841	34228
722001.24	4294307.972	8807	21-Dec-13	ALEX122113 (1).SSF	573474.5659	34229
722001.275	4294308.102	10001	21-Dec-13	ALEX122113 (1).SSF	573475.5708	34230
722001.315	4294308.178	9940	21-Dec-13	ALEX122113 (1).SSF	573476.5112	34231
722001.363	4294308.201	8875	21-Dec-13	ALEX122113 (1).SSF	573477.6299	34232
722001.367	4294308.224	8758	21-Dec-13	ALEX122113 (1).SSF	573478.5371	34233
722001.297	4294308.261	8399	21-Dec-13	ALEX122113 (1).SSF	573479.6338	34234
722001.257	4294308.269	8940	21-Dec-13	ALEX122113 (1).SSF	573480.6011	34235
722001.274	4294308.232	7995	21-Dec-13	ALEX122113 (1).SSF	573481.709	34236

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722001.317	4294308.206	9528	21-Dec-13	ALEX122113 (1).SSF	573482.5708	34237
722001.356	4294308.215	9912	21-Dec-13	ALEX122113 (1).SSF	573483.6572	34238
722001.374	4294308.232	8958	21-Dec-13	ALEX122113 (1).SSF	573484.6108	34239
722001.403	4294308.246	8839	21-Dec-13	ALEX122113 (1).SSF	573485.688	34240
722001.413	4294308.258	9709	21-Dec-13	ALEX122113 (1).SSF	573486.6211	34241
722001.427	4294308.259	9567	21-Dec-13	ALEX122113 (1).SSF	573487.7129	34242
722001.441	4294308.261	10012	21-Dec-13	ALEX122113 (1).SSF	573488.6509	34243
722001.471	4294308.262	10243	21-Dec-13	ALEX122113 (1).SSF	573489.6602	34244
722001.481	4294308.261	9850	21-Dec-13	ALEX122113 (1).SSF	573490.5449	34245
722001.481	4294308.275	9542	21-Dec-13	ALEX122113 (1).SSF	573491.6021	34246
722001.458	4294308.29	9345	21-Dec-13	ALEX122113 (1).SSF	573492.564	34247
722001.356	4294308.31	10076	21-Dec-13	ALEX122113 (1).SSF	573493.6509	34248
722001.231	4294308.315	9389	21-Dec-13	ALEX122113 (1).SSF	573494.5962	34249
722001.177	4294308.332	8527	21-Dec-13	ALEX122113 (1).SSF	573495.6479	34250
722001.183	4294308.362	9151	21-Dec-13	ALEX122113 (1).SSF	573496.6069	34251
722001.215	4294308.375	8677	21-Dec-13	ALEX122113 (1).SSF	573497.6748	34252
722001.271	4294308.39	9489	21-Dec-13	ALEX122113 (1).SSF	573498.6372	34253
722001.31	4294308.4	9692	21-Dec-13	ALEX122113 (1).SSF	573499.6572	34254
722001.34	4294308.38	9353	21-Dec-13	ALEX122113 (1).SSF	573500.519	34255
722001.39	4294308.361	8668	21-Dec-13	ALEX122113 (1).SSF	573501.6152	34256
722001.415	4294308.372	9577	21-Dec-13	ALEX122113 (1).SSF	573502.541	34257
722001.43	4294308.376	8574	21-Dec-13	ALEX122113 (1).SSF	573503.606	34258
722001.435	4294308.368	8473	21-Dec-13	ALEX122113 (1).SSF	573504.54	34259
722001.458	4294308.354	9798	21-Dec-13	ALEX122113 (1).SSF	573505.6641	34260
722001.487	4294308.347	9229	21-Dec-13	ALEX122113 (1).SSF	573506.5952	34261
722001.487	4294308.352	9537	21-Dec-13	ALEX122113 (1).SSF	573507.6362	34262
722001.495	4294308.35	9914	21-Dec-13	ALEX122113 (1).SSF	573508.6099	34263
722001.514	4294308.344	8928	21-Dec-13	ALEX122113 (1).SSF	573509.7148	34264
722001.526	4294308.34	9672	21-Dec-13	ALEX122113 (1).SSF	573510.5791	34265
722001.515	4294308.323	9408	21-Dec-13	ALEX122113 (1).SSF	573511.6519	34266
722001.495	4294308.291	9672	21-Dec-13	ALEX122113 (1).SSF	573512.5762	34267
722001.467	4294308.258	9018	21-Dec-13	ALEX122113 (1).SSF	573513.707	34268
722001.453	4294308.228	10084	21-Dec-13	ALEX122113 (1).SSF	573514.5479	34269
722001.427	4294308.187	9421	21-Dec-13	ALEX122113 (1).SSF	573515.6929	34270
722001.408	4294308.154	8595	21-Dec-13	ALEX122113 (1).SSF	573516.5801	34271
722001.395	4294308.127	9048	21-Dec-13	ALEX122113 (1).SSF	573517.603	34272
722001.37	4294308.116	10182	21-Dec-13	ALEX122113 (1).SSF	573518.5752	34273
722001.336	4294308.09	9505	21-Dec-13	ALEX122113 (1).SSF	573519.6899	34274
722001.315	4294308.062	9786	21-Dec-13	ALEX122113 (1).SSF	573520.5142	34275
722001.301	4294308.035	9496	21-Dec-13	ALEX122113 (1).SSF	573521.4878	34276
722001.295	4294308.022	8404	21-Dec-13	ALEX122113 (1).SSF	573522.4668	34277
722001.296	4294308.032	9601	21-Dec-13	ALEX122113 (1).SSF	573523.5298	34278
722001.308	4294308.046	10230	21-Dec-13	ALEX122113 (1).SSF	573524.4912	34279
722001.341	4294308.054	9397	21-Dec-13	ALEX122113 (1).SSF	573525.7178	34280
722001.36	4294308.049	9399	21-Dec-13	ALEX122113 (1).SSF	573526.5742	34281
722001.429	4294308.047	9280	21-Dec-13	ALEX122113 (1).SSF	573527.646	34282
722001.461	4294308.049	9610	21-Dec-13	ALEX122113 (1).SSF	573528.5488	34283

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722001.467	4294308.059	9152	21-Dec-13	ALEX122113 (1).SSF	573529.6938	34284
722001.483	4294308.07	9608	21-Dec-13	ALEX122113 (1).SSF	573530.5112	34285
722001.451	4294308.023	8582	21-Dec-13	ALEX122113 (1).SSF	573531.6479	34286
722001.409	4294308.002	9045	21-Dec-13	ALEX122113 (1).SSF	573532.561	34287
722001.317	4294308.037	8951	21-Dec-13	ALEX122113 (1).SSF	573533.6401	34288
722001.331	4294307.993	9978	21-Dec-13	ALEX122113 (1).SSF	573534.502	34289
722001.264	4294307.677	8674	21-Dec-13	ALEX122113 (1).SSF	573535.627	34290
722000.887	4294307.259	9668	21-Dec-13	ALEX122113 (1).SSF	573536.562	34291
722000.352	4294306.807	9857	21-Dec-13	ALEX122113 (1).SSF	573537.5742	34292
721999.831	4294306.373	8974	21-Dec-13	ALEX122113 (1).SSF	573538.4912	34293
721999.179	4294305.707	9653	21-Dec-13	ALEX122113 (1).SSF	573539.6152	34294
721998.737	4294305.202	9133	21-Dec-13	ALEX122113 (1).SSF	573540.542	34295
721998.449	4294304.965	9693	21-Dec-13	ALEX122113 (1).SSF	573541.6641	34296
721998.41	4294304.972	9983	21-Dec-13	ALEX122113 (1).SSF	573542.5122	34297
721998.477	4294304.99	9275	21-Dec-13	ALEX122113 (1).SSF	573543.644	34298
721998.631	4294305.017	8529	21-Dec-13	ALEX122113 (1).SSF	573544.4912	34299
721998.785	4294305.001	9542	21-Dec-13	ALEX122113 (1).SSF	573545.6191	34300
721998.724	4294304.87	8985	21-Dec-13	ALEX122113 (1).SSF	573546.605	34301
721998.699	4294304.775	8306	21-Dec-13	ALEX122113 (1).SSF	573547.665	34302
721998.691	4294304.734	9546	21-Dec-13	ALEX122113 (1).SSF	573548.5308	34303
721998.455	4294304.507	10726	21-Dec-13	ALEX122113 (1).SSF	573549.6699	34304
721998.058	4294304.034	10001	21-Dec-13	ALEX122113 (1).SSF	573550.5762	34305
721997.526	4294303.32	10420	21-Dec-13	ALEX122113 (1).SSF	573551.6479	34306
721997.072	4294302.78	9835	21-Dec-13	ALEX122113 (1).SSF	573552.5181	34307
721996.502	4294302.117	9778	21-Dec-13	ALEX122113 (1).SSF	573553.6001	34308
721996.082	4294301.528	10124	21-Dec-13	ALEX122113 (1).SSF	573554.5142	34309
721995.565	4294300.878	9971	21-Dec-13	ALEX122113 (1).SSF	573555.583	34310
721995.04	4294300.396	9752	21-Dec-13	ALEX122113 (1).SSF	573556.4961	34311
721994.448	4294299.741	10688	21-Dec-13	ALEX122113 (1).SSF	573557.5898	34312
721993.97	4294299.045	9572	21-Dec-13	ALEX122113 (1).SSF	573558.5869	34313
721993.435	4294298.412	9743	21-Dec-13	ALEX122113 (1).SSF	573559.6021	34314
721992.878	4294297.81	8585	21-Dec-13	ALEX122113 (1).SSF	573560.5898	34315
721992.386	4294297.119	8716	21-Dec-13	ALEX122113 (1).SSF	573561.6558	34316
721991.934	4294296.523	9229	21-Dec-13	ALEX122113 (1).SSF	573562.5918	34317
721991.338	4294295.861	8847	21-Dec-13	ALEX122113 (1).SSF	573563.6191	34318
721990.863	4294295.255	10162	21-Dec-13	ALEX122113 (1).SSF	573564.5571	34319
721990.332	4294294.615	8360	21-Dec-13	ALEX122113 (1).SSF	573565.6641	34320
721989.896	4294294.214	9200	21-Dec-13	ALEX122113 (1).SSF	573566.5142	34321
721989.342	4294293.627	8750	21-Dec-13	ALEX122113 (1).SSF	573567.644	34322
721988.867	4294293.084	8937	21-Dec-13	ALEX122113 (1).SSF	573568.5161	34323
721988.176	4294292.445	9464	21-Dec-13	ALEX122113 (1).SSF	573569.6489	34324
721987.74	4294291.982	10016	21-Dec-13	ALEX122113 (1).SSF	573570.498	34325
721987.366	4294291.339	9914	21-Dec-13	ALEX122113 (1).SSF	573571.5791	34326
721987.044	4294290.805	9408	21-Dec-13	ALEX122113 (1).SSF	573572.5518	34327
721986.625	4294290.189	8922	21-Dec-13	ALEX122113 (1).SSF	573573.5552	34328
721986.215	4294289.537	8980	21-Dec-13	ALEX122113 (1).SSF	573574.5151	34329
721985.728	4294288.96	9865	21-Dec-13	ALEX122113 (1).SSF	573575.5952	34330

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721985.257	4294288.457	9636	21-Dec-13	ALEX122113 (1).SSF	573576.5278	34331
721984.692	4294287.721	9189	21-Dec-13	ALEX122113 (1).SSF	573577.5771	34332
721984.16	4294287.106	9557	21-Dec-13	ALEX122113 (1).SSF	573578.519	34333
721983.627	4294286.45	8959	21-Dec-13	ALEX122113 (1).SSF	573579.6411	34334
721983.244	4294285.878	9589	21-Dec-13	ALEX122113 (1).SSF	573580.5039	34335
721982.669	4294285.176	9027	21-Dec-13	ALEX122113 (1).SSF	573581.5361	34336
721982.067	4294284.464	7897	21-Dec-13	ALEX122113 (1).SSF	573582.561	34337
721981.605	4294283.727	6864	21-Dec-13	ALEX122113 (1).SSF	573583.5889	34338
721981.196	4294283.091	7446	21-Dec-13	ALEX122113 (1).SSF	573584.498	34339
721980.542	4294282.335	6811	21-Dec-13	ALEX122113 (1).SSF	573585.6382	34340
721980.044	4294281.775	6202	21-Dec-13	ALEX122113 (1).SSF	573586.4819	34341
721979.371	4294281.005	7190	21-Dec-13	ALEX122113 (1).SSF	573587.5869	34342
721978.782	4294280.443	6117	21-Dec-13	ALEX122113 (1).SSF	573588.5288	34343
721978.2	4294279.848	6509	21-Dec-13	ALEX122113 (1).SSF	573589.6318	34344
721977.731	4294279.278	5936	21-Dec-13	ALEX122113 (1).SSF	573590.5361	34345
721977.11	4294278.593	6211	21-Dec-13	ALEX122113 (1).SSF	573591.647	34346
721976.649	4294278.012	6802	21-Dec-13	ALEX122113 (1).SSF	573592.5669	34347
721976.211	4294277.348	6380	21-Dec-13	ALEX122113 (1).SSF	573593.5659	34348
721975.643	4294276.777	6395	21-Dec-13	ALEX122113 (1).SSF	573594.5469	34349
721974.967	4294276.283	6728	21-Dec-13	ALEX122113 (1).SSF	573595.5371	34350
721974.458	4294275.717	6302	21-Dec-13	ALEX122113 (1).SSF	573596.5469	34351
721974.147	4294275.095	7635	21-Dec-13	ALEX122113 (1).SSF	573597.5688	34352
721973.817	4294274.561	6888	21-Dec-13	ALEX122113 (1).SSF	573598.4692	34353
721973.243	4294273.78	8352	21-Dec-13	ALEX122113 (1).SSF	573599.6401	34354
721972.903	4294273.097	8988	21-Dec-13	ALEX122113 (1).SSF	573600.5781	34355
721972.453	4294272.403	8217	21-Dec-13	ALEX122113 (1).SSF	573601.6729	34356
721971.931	4294271.877	8354	21-Dec-13	ALEX122113 (1).SSF	573602.5752	34357
721971.45	4294271.311	8808	21-Dec-13	ALEX122113 (1).SSF	573603.6641	34358
721971.133	4294270.932	8502	21-Dec-13	ALEX122113 (1).SSF	573604.562	34359
721970.646	4294270.443	8065	21-Dec-13	ALEX122113 (1).SSF	573605.6299	34360
721970.342	4294270.153	7416	21-Dec-13	ALEX122113 (1).SSF	573606.4722	34361
721970.134	4294269.988	7704	21-Dec-13	ALEX122113 (1).SSF	573607.6152	34362
721969.853	4294270.099	8886	21-Dec-13	ALEX122113 (1).SSF	573608.5518	34363
721969.146	4294270.407	8281	21-Dec-13	ALEX122113 (1).SSF	573609.605	34364
721968.66	4294270.491	6480	21-Dec-13	ALEX122113 (1).SSF	573610.5532	34365
721968.582	4294270.511	7140	21-Dec-13	ALEX122113 (1).SSF	573611.5972	34366
721968.594	4294270.668	7245	21-Dec-13	ALEX122113 (1).SSF	573612.4849	34367
721968.651	4294270.863	7691	21-Dec-13	ALEX122113 (1).SSF	573613.626	34368
721968.749	4294270.915	9213	21-Dec-13	ALEX122113 (1).SSF	573614.4858	34369
721968.835	4294270.932	8243	21-Dec-13	ALEX122113 (1).SSF	573615.6431	34370
721968.855	4294270.856	8270	21-Dec-13	ALEX122113 (1).SSF	573616.5918	34371
721968.869	4294270.718	7707	21-Dec-13	ALEX122113 (1).SSF	573617.6182	34372
721968.9	4294270.646	7747	21-Dec-13	ALEX122113 (1).SSF	573618.5742	34373
721968.906	4294270.635	7126	21-Dec-13	ALEX122113 (1).SSF	573619.6211	34374
721968.895	4294270.637	7301	21-Dec-13	ALEX122113 (1).SSF	573620.5181	34375
721968.951	4294270.662	8875	21-Dec-13	ALEX122113 (1).SSF	573621.5952	34376
721969.083	4294270.784	7049	21-Dec-13	ALEX122113 (1).SSF	573622.5371	34377

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721969.281	4294270.956	7702	21-Dec-13	ALEX122113 (1).SSF	573623.5771	34378
721969.297	4294271.108	8585	21-Dec-13	ALEX122113 (1).SSF	573624.5781	34379
721969.318	4294271.335	8086	21-Dec-13	ALEX122113 (1).SSF	573625.6362	34380
721969.626	4294271.705	8531	21-Dec-13	ALEX122113 (1).SSF	573626.585	34381
721970.113	4294272.333	8523	21-Dec-13	ALEX122113 (1).SSF	573627.666	34382
721970.58	4294272.959	8190	21-Dec-13	ALEX122113 (1).SSF	573628.541	34383
721971.208	4294273.739	8557	21-Dec-13	ALEX122113 (1).SSF	573629.665	34384
721971.524	4294274.155	8739	21-Dec-13	ALEX122113 (1).SSF	573630.4829	34385
721971.961	4294274.705	8035	21-Dec-13	ALEX122113 (1).SSF	573631.6011	34386
721972.404	4294275.215	7498	21-Dec-13	ALEX122113 (1).SSF	573632.4888	34387
721972.799	4294275.717	7544	21-Dec-13	ALEX122113 (1).SSF	573633.6182	34388
721973.026	4294276.053	6896	21-Dec-13	ALEX122113 (1).SSF	573634.4712	34389
721973.46	4294276.736	7424	21-Dec-13	ALEX122113 (1).SSF	573635.6191	34390
721973.849	4294277.33	7316	21-Dec-13	ALEX122113 (1).SSF	573636.5498	34391
721974.407	4294277.879	6389	21-Dec-13	ALEX122113 (1).SSF	573637.6338	34392
721974.962	4294278.417	6457	21-Dec-13	ALEX122113 (1).SSF	573638.5581	34393
721975.467	4294279.165	6204	21-Dec-13	ALEX122113 (1).SSF	573639.6318	34394
721975.745	4294279.689	6051	21-Dec-13	ALEX122113 (1).SSF	573640.5029	34395
721976.074	4294280.107	6079	21-Dec-13	ALEX122113 (1).SSF	573641.5981	34396
721976.238	4294280.21	6289	21-Dec-13	ALEX122113 (1).SSF	573642.542	34397
721976.26	4294280.268	7692	21-Dec-13	ALEX122113 (1).SSF	573643.6479	34398
721976.257	4294280.317	6153	21-Dec-13	ALEX122113 (1).SSF	573644.5518	34399
721976.249	4294280.288	5832	21-Dec-13	ALEX122113 (1).SSF	573645.5669	34400
721976.247	4294280.248	6582	21-Dec-13	ALEX122113 (1).SSF	573646.458	34401
721976.237	4294280.22	6865	21-Dec-13	ALEX122113 (1).SSF	573647.6138	34402
721976.324	4294280.283	6156	21-Dec-13	ALEX122113 (1).SSF	573648.5142	34403
721976.642	4294280.646	5953	21-Dec-13	ALEX122113 (1).SSF	573649.5859	34404
721977.028	4294281.196	6168	21-Dec-13	ALEX122113 (1).SSF	573650.4839	34405
721977.652	4294281.971	7242	21-Dec-13	ALEX122113 (1).SSF	573651.5972	34406
721978.214	4294282.582	8080	21-Dec-13	ALEX122113 (1).SSF	573652.4482	34407
721978.862	4294283.414	7120	21-Dec-13	ALEX122113 (1).SSF	573653.562	34408
721979.303	4294284.068	7120	21-Dec-13	ALEX122113 (1).SSF	573654.4492	34409
721979.9	4294284.845	7000	21-Dec-13	ALEX122113 (1).SSF	573655.5298	34410
721980.537	4294285.599	7930	21-Dec-13	ALEX122113 (1).SSF	573656.542	34411
721981.185	4294286.346	8702	21-Dec-13	ALEX122113 (1).SSF	573657.5879	34412
721981.703	4294286.89	9435	21-Dec-13	ALEX122113 (1).SSF	573658.4902	34413
721982.21	4294287.331	8058	21-Dec-13	ALEX122113 (1).SSF	573659.605	34414
721982.368	4294287.341	9574	21-Dec-13	ALEX122113 (1).SSF	573660.5308	34415
721982.35	4294287.223	9083	21-Dec-13	ALEX122113 (1).SSF	573661.6362	34416
721982.308	4294287.406	9831	21-Dec-13	ALEX122113 (1).SSF	573662.5229	34417
721982.402	4294287.935	9477	21-Dec-13	ALEX122113 (1).SSF	573663.603	34418
721982.748	4294288.492	8819	21-Dec-13	ALEX122113 (1).SSF	573664.5059	34419
721983.344	4294289.216	8595	21-Dec-13	ALEX122113 (1).SSF	573665.4951	34420
721983.9	4294289.873	9918	21-Dec-13	ALEX122113 (1).SSF	573666.418	34421
721984.488	4294290.524	9319	21-Dec-13	ALEX122113 (1).SSF	573667.499	34422
721985.026	4294291.146	8959	21-Dec-13	ALEX122113 (1).SSF	573668.459	34423
721985.538	4294291.876	9800	21-Dec-13	ALEX122113 (1).SSF	573669.543	34424

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721985.987	4294292.496	8720	21-Dec-13	ALEX122113 (1).SSF	573670.563	34425
721986.569	4294293.248	9170	21-Dec-13	ALEX122113 (1).SSF	573671.6519	34426
721987.005	4294293.792	9252	21-Dec-13	ALEX122113 (1).SSF	573672.5591	34427
721987.462	4294294.316	9543	21-Dec-13	ALEX122113 (1).SSF	573673.5918	34428
721987.916	4294294.893	10365	21-Dec-13	ALEX122113 (1).SSF	573674.519	34429
721988.459	4294295.62	9971	21-Dec-13	ALEX122113 (1).SSF	573675.647	34430
721988.866	4294296.054	9483	21-Dec-13	ALEX122113 (1).SSF	573676.5532	34431
721989.327	4294296.59	9240	21-Dec-13	ALEX122113 (1).SSF	573677.562	34432
721989.856	4294297.272	9810	21-Dec-13	ALEX122113 (1).SSF	573678.5732	34433
721990.408	4294297.842	9772	21-Dec-13	ALEX122113 (1).SSF	573679.5718	34434
721990.81	4294298.261	9973	21-Dec-13	ALEX122113 (1).SSF	573680.4229	34435
721991.391	4294298.996	10203	21-Dec-13	ALEX122113 (1).SSF	573681.5801	34436
721991.948	4294299.657	10050	21-Dec-13	ALEX122113 (1).SSF	573682.502	34437
721992.493	4294300.398	10912	21-Dec-13	ALEX122113 (1).SSF	573683.5952	34438
721992.93	4294301.017	9658	21-Dec-13	ALEX122113 (1).SSF	573684.4888	34439
721993.577	4294301.864	10004	21-Dec-13	ALEX122113 (1).SSF	573685.6309	34440
721993.991	4294302.529	9971	21-Dec-13	ALEX122113 (1).SSF	573686.5308	34441
721994.456	4294303.245	9302	21-Dec-13	ALEX122113 (1).SSF	573687.5532	34442
721994.95	4294303.867	9975	21-Dec-13	ALEX122113 (1).SSF	573688.4868	34443
721995.391	4294304.485	10623	21-Dec-13	ALEX122113 (1).SSF	573689.6011	34444
721995.617	4294304.742	9286	21-Dec-13	ALEX122113 (1).SSF	573690.542	34445
721995.728	4294304.782	8891	21-Dec-13	ALEX122113 (1).SSF	573691.6602	34446
721995.697	4294304.781	8883	21-Dec-13	ALEX122113 (1).SSF	573692.5649	34447
721995.667	4294304.769	9090	21-Dec-13	ALEX122113 (1).SSF	573693.5732	34448
721995.651	4294304.799	9562	21-Dec-13	ALEX122113 (1).SSF	573694.5781	34449
721995.612	4294304.775	9710	21-Dec-13	ALEX122113 (1).SSF	573695.5498	34450
721995.649	4294304.753	9447	21-Dec-13	ALEX122113 (1).SSF	573696.5181	34451
721995.703	4294304.768	9502	21-Dec-13	ALEX122113 (1).SSF	573697.5098	34452
721995.696	4294304.837	8885	21-Dec-13	ALEX122113 (1).SSF	573698.5308	34453
721995.911	4294305.135	9391	21-Dec-13	ALEX122113 (1).SSF	573699.5342	34454
721996.381	4294305.569	8887	21-Dec-13	ALEX122113 (1).SSF	573700.4199	34455
721996.994	4294306.195	9812	21-Dec-13	ALEX122113 (1).SSF	573701.5479	34456
721997.46	4294306.78	9083	21-Dec-13	ALEX122113 (1).SSF	573702.4619	34457
721998.069	4294307.482	9740	21-Dec-13	ALEX122113 (1).SSF	573703.5088	34458
721998.534	4294307.986	8885	21-Dec-13	ALEX122113 (1).SSF	573704.4199	34459
721999.059	4294308.554	8461	21-Dec-13	ALEX122113 (1).SSF	573705.5459	34460
721999.601	4294309.149	8925	21-Dec-13	ALEX122113 (1).SSF	573706.5591	34461
722000.128	4294309.849	9041	21-Dec-13	ALEX122113 (1).SSF	573707.5698	34462
722000.543	4294310.497	9640	21-Dec-13	ALEX122113 (1).SSF	573708.478	34463
722000.869	4294310.983	9430	21-Dec-13	ALEX122113 (1).SSF	573709.6118	34464
722000.906	4294311.063	9935	21-Dec-13	ALEX122113 (1).SSF	573710.5298	34465
722000.855	4294311.107	9746	21-Dec-13	ALEX122113 (1).SSF	573711.6421	34466
722000.863	4294311.267	9516	21-Dec-13	ALEX122113 (1).SSF	573712.5488	34467
722000.89	4294311.45	9879	21-Dec-13	ALEX122113 (1).SSF	573713.5991	34468
722000.826	4294311.524	8979	21-Dec-13	ALEX122113 (1).SSF	573714.5112	34469
722000.596	4294311.73	8695	21-Dec-13	ALEX122113 (1).SSF	573715.6362	34470
722000.36	4294311.896	10093	21-Dec-13	ALEX122113 (1).SSF	573716.4512	34471

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722000.084	4294312.078	10173	21-Dec-13	ALEX122113 (1).SSF	573717.605	34472
722000.032	4294312.163	9413	21-Dec-13	ALEX122113 (1).SSF	573718.5132	34473
722000.025	4294312.192	10093	21-Dec-13	ALEX122113 (1).SSF	573719.5391	34474
721999.94	4294312.197	10623	21-Dec-13	ALEX122113 (1).SSF	573720.4888	34475
721999.839	4294312.193	10185	21-Dec-13	ALEX122113 (1).SSF	573721.6001	34476
721999.819	4294312.213	10106	21-Dec-13	ALEX122113 (1).SSF	573722.48	34477
721999.813	4294312.208	10056	21-Dec-13	ALEX122113 (1).SSF	573723.5488	34478
721999.696	4294311.994	9894	21-Dec-13	ALEX122113 (1).SSF	573724.5171	34479
721999.273	4294311.442	9553	21-Dec-13	ALEX122113 (1).SSF	573725.624	34480
721998.721	4294310.959	11238	21-Dec-13	ALEX122113 (1).SSF	573726.5088	34481
721998.025	4294310.275	10639	21-Dec-13	ALEX122113 (1).SSF	573727.5981	34482
721997.503	4294309.612	9949	21-Dec-13	ALEX122113 (1).SSF	573728.4858	34483
721996.852	4294308.786	9837	21-Dec-13	ALEX122113 (1).SSF	573729.5918	34484
721996.382	4294308.128	9449	21-Dec-13	ALEX122113 (1).SSF	573730.4512	34485
721995.905	4294307.375	9352	21-Dec-13	ALEX122113 (1).SSF	573731.5122	34486
721995.499	4294306.828	10228	21-Dec-13	ALEX122113 (1).SSF	573732.4438	34487
721994.961	4294306.167	9547	21-Dec-13	ALEX122113 (1).SSF	573733.5059	34488
721994.522	4294305.538	10006	21-Dec-13	ALEX122113 (1).SSF	573734.4438	34489
721993.966	4294304.769	9971	21-Dec-13	ALEX122113 (1).SSF	573735.5718	34490
721993.391	4294304.107	9903	21-Dec-13	ALEX122113 (1).SSF	573736.5249	34491
721992.732	4294303.434	9405	21-Dec-13	ALEX122113 (1).SSF	573737.5859	34492
721992.157	4294302.87	9581	21-Dec-13	ALEX122113 (1).SSF	573738.4771	34493
721991.548	4294302.158	10075	21-Dec-13	ALEX122113 (1).SSF	573739.5869	34494
721991.181	4294301.605	9479	21-Dec-13	ALEX122113 (1).SSF	573740.4321	34495
721990.695	4294300.89	8459	21-Dec-13	ALEX122113 (1).SSF	573741.5669	34496
721990.291	4294300.422	9615	21-Dec-13	ALEX122113 (1).SSF	573742.4648	34497
721989.826	4294299.81	11163	21-Dec-13	ALEX122113 (1).SSF	573743.562	34498
721989.474	4294299.295	9780	21-Dec-13	ALEX122113 (1).SSF	573744.4102	34499
721988.933	4294298.641	8535	21-Dec-13	ALEX122113 (1).SSF	573745.563	34500
721988.528	4294298.087	10353	21-Dec-13	ALEX122113 (1).SSF	573746.4229	34501
721988.032	4294297.308	10088	21-Dec-13	ALEX122113 (1).SSF	573747.5449	34502
721987.649	4294296.824	10112	21-Dec-13	ALEX122113 (1).SSF	573748.4541	34503
721987.231	4294296.339	9398	21-Dec-13	ALEX122113 (1).SSF	573749.4692	34504
721986.759	4294295.738	9549	21-Dec-13	ALEX122113 (1).SSF	573750.4932	34505
721986.223	4294295.109	9167	21-Dec-13	ALEX122113 (1).SSF	573751.5679	34506
721985.831	4294294.525	9611	21-Dec-13	ALEX122113 (1).SSF	573752.5288	34507
721985.498	4294293.888	10083	21-Dec-13	ALEX122113 (1).SSF	573753.5679	34508
721985.082	4294293.371	9870	21-Dec-13	ALEX122113 (1).SSF	573754.5039	34509
721984.436	4294292.762	8437	21-Dec-13	ALEX122113 (1).SSF	573755.543	34510
721983.808	4294292.231	8379	21-Dec-13	ALEX122113 (1).SSF	573756.5039	34511
721983.073	4294291.76	8755	21-Dec-13	ALEX122113 (1).SSF	573757.5342	34512
721982.402	4294291.299	9418	21-Dec-13	ALEX122113 (1).SSF	573758.4771	34513
721981.803	4294290.602	9584	21-Dec-13	ALEX122113 (1).SSF	573759.561	34514
721981.352	4294289.938	8816	21-Dec-13	ALEX122113 (1).SSF	573760.4521	34515
721980.78	4294289.222	9314	21-Dec-13	ALEX122113 (1).SSF	573761.5142	34516
721980.338	4294288.583	8958	21-Dec-13	ALEX122113 (1).SSF	573762.4302	34517
721979.849	4294287.68	9319	21-Dec-13	ALEX122113 (1).SSF	573763.564	34518

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721979.424	4294287.012	9889	21-Dec-13	ALEX122113 (1).SSF	573764.3989	34519
721978.758	4294285.973	8832	21-Dec-13	ALEX122113 (1).SSF	573765.543	34520
721978.28	4294285.115	7488	21-Dec-13	ALEX122113 (1).SSF	573766.5308	34521
721977.739	4294284.393	7992	21-Dec-13	ALEX122113 (1).SSF	573767.6211	34522
721977.212	4294283.76	8298	21-Dec-13	ALEX122113 (1).SSF	573768.5059	34523
721976.602	4294282.839	8614	21-Dec-13	ALEX122113 (1).SSF	573769.584	34524
721976.103	4294282.18	8183	21-Dec-13	ALEX122113 (1).SSF	573770.4639	34525
721975.485	4294281.472	7536	21-Dec-13	ALEX122113 (1).SSF	573771.5962	34526
721975.128	4294280.823	6864	21-Dec-13	ALEX122113 (1).SSF	573772.479	34527
721974.714	4294280.01	7386	21-Dec-13	ALEX122113 (1).SSF	573773.5332	34528
721974.199	4294279.376	6586	21-Dec-13	ALEX122113 (1).SSF	573774.5098	34529
721973.648	4294278.742	6866	21-Dec-13	ALEX122113 (1).SSF	573775.522	34530
721973.236	4294278.12	6936	21-Dec-13	ALEX122113 (1).SSF	573776.459	34531
721972.689	4294277.356	6654	21-Dec-13	ALEX122113 (1).SSF	573777.604	34532
721972.212	4294276.799	8593	21-Dec-13	ALEX122113 (1).SSF	573778.4858	34533
721971.765	4294276.161	7968	21-Dec-13	ALEX122113 (1).SSF	573779.5889	34534
721971.418	4294275.566	6942	21-Dec-13	ALEX122113 (1).SSF	573780.5059	34535
721970.851	4294274.791	7525	21-Dec-13	ALEX122113 (1).SSF	573781.6099	34536
721970.395	4294274.206	9171	21-Dec-13	ALEX122113 (1).SSF	573782.4731	34537
721969.793	4294273.517	8682	21-Dec-13	ALEX122113 (1).SSF	573783.5229	34538
721969.227	4294272.952	8020	21-Dec-13	ALEX122113 (1).SSF	573784.5098	34539
721968.768	4294272.4	7945	21-Dec-13	ALEX122113 (1).SSF	573785.5532	34540
721968.261	4294271.861	7926	21-Dec-13	ALEX122113 (1).SSF	573786.5371	34541
721967.768	4294271.398	8101	21-Dec-13	ALEX122113 (1).SSF	573787.521	34542
721967.548	4294271.104	8895	21-Dec-13	ALEX122113 (1).SSF	573788.5249	34543
721967.559	4294271.017	8433	21-Dec-13	ALEX122113 (1).SSF	573789.5298	34544
721967.56	4294271.059	8378	21-Dec-13	ALEX122113 (1).SSF	573790.4658	34545
721967.505	4294271.17	8484	21-Dec-13	ALEX122113 (1).SSF	573791.5879	34546
721967.415	4294271.311	8481	21-Dec-13	ALEX122113 (1).SSF	573792.5171	34547
721967.059	4294271.548	8030	21-Dec-13	ALEX122113 (1).SSF	573793.561	34548
721966.62	4294271.723	8067	21-Dec-13	ALEX122113 (1).SSF	573794.4131	34549
721966.24	4294271.809	7687	21-Dec-13	ALEX122113 (1).SSF	573795.5562	34550
721966.207	4294271.815	8431	21-Dec-13	ALEX122113 (1).SSF	573796.4072	34551
721966.285	4294271.905	8407	21-Dec-13	ALEX122113 (1).SSF	573797.4941	34552
721966.399	4294272.067	7862	21-Dec-13	ALEX122113 (1).SSF	573798.4482	34553
721966.499	4294272.25	8835	21-Dec-13	ALEX122113 (1).SSF	573799.5479	34554
721966.493	4294272.351	8238	21-Dec-13	ALEX122113 (1).SSF	573800.4268	34555
721966.507	4294272.341	9289	21-Dec-13	ALEX122113 (1).SSF	573801.519	34556
721966.519	4294272.364	8952	21-Dec-13	ALEX122113 (1).SSF	573802.3931	34557
721966.375	4294272.585	7968	21-Dec-13	ALEX122113 (1).SSF	573803.543	34558
721966.224	4294272.721	7422	21-Dec-13	ALEX122113 (1).SSF	573804.4458	34559
721966.147	4294272.781	8065	21-Dec-13	ALEX122113 (1).SSF	573805.543	34560
721966.135	4294272.79	9396	21-Dec-13	ALEX122113 (1).SSF	573806.374	34561
721966.185	4294272.732	8649	21-Dec-13	ALEX122113 (1).SSF	573807.478	34562
721966.268	4294272.697	8822	21-Dec-13	ALEX122113 (1).SSF	573808.4399	34563
721966.496	4294272.863	9615	21-Dec-13	ALEX122113 (1).SSF	573809.481	34564
721966.869	4294273.238	8883	21-Dec-13	ALEX122113 (1).SSF	573810.418	34565

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721967.171	4294273.693	9031	21-Dec-13	ALEX122113 (1).SSF	573811.5552	34566
721967.357	4294274.004	9487	21-Dec-13	ALEX122113 (1).SSF	573812.4619	34567
721967.656	4294274.466	8042	21-Dec-13	ALEX122113 (1).SSF	573813.582	34568
721967.899	4294274.723	8070	21-Dec-13	ALEX122113 (1).SSF	573814.416	34569
721968.275	4294274.87	8047	21-Dec-13	ALEX122113 (1).SSF	573815.5479	34570
721968.626	4294275.053	8162	21-Dec-13	ALEX122113 (1).SSF	573816.3892	34571
721969.061	4294275.675	8580	21-Dec-13	ALEX122113 (1).SSF	573817.522	34572
721969.236	4294276.401	7905	21-Dec-13	ALEX122113 (1).SSF	573818.4741	34573
721969.318	4294277.019	8276	21-Dec-13	ALEX122113 (1).SSF	573819.4902	34574
721969.402	4294277.254	9029	21-Dec-13	ALEX122113 (1).SSF	573820.374	34575
721969.516	4294277.444	7717	21-Dec-13	ALEX122113 (1).SSF	573821.479	34576
721969.714	4294277.736	7779	21-Dec-13	ALEX122113 (1).SSF	573822.4331	34577
721970.178	4294278.27	7344	21-Dec-13	ALEX122113 (1).SSF	573823.4731	34578
721970.697	4294278.84	8256	21-Dec-13	ALEX122113 (1).SSF	573824.418	34579
721971.33	4294279.351	7464	21-Dec-13	ALEX122113 (1).SSF	573825.54	34580
721971.885	4294279.85	6516	21-Dec-13	ALEX122113 (1).SSF	573826.4629	34581
721972.438	4294280.582	6849	21-Dec-13	ALEX122113 (1).SSF	573827.5708	34582
721972.905	4294281.188	5943	21-Dec-13	ALEX122113 (1).SSF	573828.4731	34583
721973.541	4294281.829	5983	21-Dec-13	ALEX122113 (1).SSF	573829.4922	34584
721974.039	4294282.446	6515	21-Dec-13	ALEX122113 (1).SSF	573830.4419	34585
721974.528	4294283.217	6758	21-Dec-13	ALEX122113 (1).SSF	573831.5068	34586
721975.057	4294283.872	7089	21-Dec-13	ALEX122113 (1).SSF	573832.4502	34587
721975.586	4294284.502	7442	21-Dec-13	ALEX122113 (1).SSF	573833.438	34588
721975.997	4294285.095	6960	21-Dec-13	ALEX122113 (1).SSF	573834.3618	34589
721976.527	4294285.935	6180	21-Dec-13	ALEX122113 (1).SSF	573835.541	34590
721976.944	4294286.402	7245	21-Dec-13	ALEX122113 (1).SSF	573836.3862	34591
721977.495	4294286.868	7781	21-Dec-13	ALEX122113 (1).SSF	573837.4761	34592
721978.057	4294287.57	8395	21-Dec-13	ALEX122113 (1).SSF	573838.438	34593
721978.667	4294288.413	8459	21-Dec-13	ALEX122113 (1).SSF	573839.543	34594
721979.066	4294288.938	9674	21-Dec-13	ALEX122113 (1).SSF	573840.3882	34595
721979.78	4294289.79	10488	21-Dec-13	ALEX122113 (1).SSF	573841.5029	34596
721980.459	4294290.54	10092	21-Dec-13	ALEX122113 (1).SSF	573842.4121	34597
721980.99	4294291.265	9663	21-Dec-13	ALEX122113 (1).SSF	573843.4409	34598
721981.347	4294291.997	10275	21-Dec-13	ALEX122113 (1).SSF	573844.4199	34599
721981.794	4294292.666	9678	21-Dec-13	ALEX122113 (1).SSF	573845.5039	34600
721982.156	4294293.245	9439	21-Dec-13	ALEX122113 (1).SSF	573846.417	34601
721982.64	4294294.041	9920	21-Dec-13	ALEX122113 (1).SSF	573847.4951	34602
721983.188	4294294.674	9590	21-Dec-13	ALEX122113 (1).SSF	573848.416	34603
721983.704	4294295.308	9777	21-Dec-13	ALEX122113 (1).SSF	573849.5239	34604
721983.982	4294295.638	10874	21-Dec-13	ALEX122113 (1).SSF	573850.4229	34605
721984.38	4294295.962	10608	21-Dec-13	ALEX122113 (1).SSF	573851.5288	34606
721984.629	4294296.209	9822	21-Dec-13	ALEX122113 (1).SSF	573852.4702	34607
721984.688	4294296.497	9145	21-Dec-13	ALEX122113 (1).SSF	573853.5488	34608
721984.723	4294296.711	9186	21-Dec-13	ALEX122113 (1).SSF	573854.4399	34609
721984.972	4294297.03	9496	21-Dec-13	ALEX122113 (1).SSF	573855.4912	34610
721985.292	4294297.48	9634	21-Dec-13	ALEX122113 (1).SSF	573856.4531	34611
721985.69	4294298.134	10898	21-Dec-13	ALEX122113 (1).SSF	573857.4951	34612

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721986.183	4294298.837	10524	21-Dec-13	ALEX122113 (1).SSF	573858.4082	34613
721986.705	4294299.45	9021	21-Dec-13	ALEX122113 (1).SSF	573859.4951	34614
721986.919	4294299.567	10355	21-Dec-13	ALEX122113 (1).SSF	573860.4521	34615
721986.958	4294299.49	9908	21-Dec-13	ALEX122113 (1).SSF	573861.479	34616
721986.934	4294299.447	9527	21-Dec-13	ALEX122113 (1).SSF	573862.416	34617
721986.976	4294299.36	9491	21-Dec-13	ALEX122113 (1).SSF	573863.5649	34618
721987.051	4294299.259	10053	21-Dec-13	ALEX122113 (1).SSF	573864.4829	34619
721987.06	4294299.294	9473	21-Dec-13	ALEX122113 (1).SSF	573865.4561	34620
721987.004	4294299.395	9538	21-Dec-13	ALEX122113 (1).SSF	573866.3672	34621
721986.984	4294299.503	9554	21-Dec-13	ALEX122113 (1).SSF	573867.4702	34622
721987.068	4294299.783	10008	21-Dec-13	ALEX122113 (1).SSF	573868.4038	34623
721987.44	4294300.274	10392	21-Dec-13	ALEX122113 (1).SSF	573869.416	34624
721988.047	4294300.949	10068	21-Dec-13	ALEX122113 (1).SSF	573870.4268	34625
721988.518	4294301.786	11067	21-Dec-13	ALEX122113 (1).SSF	573871.4961	34626
721988.845	4294302.468	9666	21-Dec-13	ALEX122113 (1).SSF	573872.4282	34627
721989.436	4294303.269	9376	21-Dec-13	ALEX122113 (1).SSF	573873.501	34628
721989.96	4294303.914	10654	21-Dec-13	ALEX122113 (1).SSF	573874.3862	34629
721990.595	4294304.697	8933	21-Dec-13	ALEX122113 (1).SSF	573875.5469	34630
721991.158	4294305.335	10003	21-Dec-13	ALEX122113 (1).SSF	573876.4639	34631
721991.742	4294305.878	9041	21-Dec-13	ALEX122113 (1).SSF	573877.5361	34632
721992.258	4294306.241	9190	21-Dec-13	ALEX122113 (1).SSF	573878.4668	34633
721992.919	4294306.851	8957	21-Dec-13	ALEX122113 (1).SSF	573879.502	34634
721993.482	4294307.595	9589	21-Dec-13	ALEX122113 (1).SSF	573880.4502	34635
721994.062	4294308.284	10557	21-Dec-13	ALEX122113 (1).SSF	573881.4849	34636
721994.55	4294308.884	10589	21-Dec-13	ALEX122113 (1).SSF	573882.4541	34637
721995.071	4294309.743	11497	21-Dec-13	ALEX122113 (1).SSF	573883.4858	34638
721995.583	4294310.407	10194	21-Dec-13	ALEX122113 (1).SSF	573884.4209	34639
721996.073	4294310.943	9718	21-Dec-13	ALEX122113 (1).SSF	573885.5601	34640
721996.438	4294311.388	9989	21-Dec-13	ALEX122113 (1).SSF	573886.3892	34641
721997.009	4294312.069	9757	21-Dec-13	ALEX122113 (1).SSF	573887.522	34642
721997.361	4294312.558	10839	21-Dec-13	ALEX122113 (1).SSF	573888.4541	34643
721997.712	4294313.08	9939	21-Dec-13	ALEX122113 (1).SSF	573889.5381	34644
721998.103	4294313.625	8485	21-Dec-13	ALEX122113 (1).SSF	573890.4482	34645
721998.482	4294314.094	10221	21-Dec-13	ALEX122113 (1).SSF	573891.4609	34646
721998.622	4294314.15	11435	21-Dec-13	ALEX122113 (1).SSF	573892.373	34647
721998.642	4294314.018	9728	21-Dec-13	ALEX122113 (1).SSF	573893.5078	34648
721998.607	4294314.037	8612	21-Dec-13	ALEX122113 (1).SSF	573894.439	34649
721998.427	4294314.212	9203	21-Dec-13	ALEX122113 (1).SSF	573895.5049	34650
721998.21	4294314.445	8540	21-Dec-13	ALEX122113 (1).SSF	573896.4331	34651
721997.939	4294314.633	9815	21-Dec-13	ALEX122113 (1).SSF	573897.5	34652
721997.747	4294314.682	10373	21-Dec-13	ALEX122113 (1).SSF	573898.396	34653
721997.694	4294314.56	9553	21-Dec-13	ALEX122113 (1).SSF	573899.4932	34654
721997.709	4294314.3	10368	21-Dec-13	ALEX122113 (1).SSF	573900.438	34655
721997.492	4294314.276	9912	21-Dec-13	ALEX122113 (1).SSF	573901.48	34656
721997.219	4294314.449	9018	21-Dec-13	ALEX122113 (1).SSF	573902.3779	34657
721997.125	4294314.517	9904	21-Dec-13	ALEX122113 (1).SSF	573903.4849	34658
721997.204	4294314.497	10276	21-Dec-13	ALEX122113 (1).SSF	573904.4668	34659

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721997.259	4294314.567	10279	21-Dec-13	ALEX122113 (1).SSF	573905.5049	34660
721997.21	4294314.652	9379	21-Dec-13	ALEX122113 (1).SSF	573906.3472	34661
721997.137	4294314.776	10205	21-Dec-13	ALEX122113 (1).SSF	573907.4238	34662
721997.111	4294314.877	9031	21-Dec-13	ALEX122113 (1).SSF	573908.4199	34663
721997.056	4294314.929	9997	21-Dec-13	ALEX122113 (1).SSF	573909.499	34664
721997.015	4294314.93	9999	21-Dec-13	ALEX122113 (1).SSF	573910.4629	34665
721996.98	4294314.828	11260	21-Dec-13	ALEX122113 (1).SSF	573911.5259	34666
721996.817	4294314.656	9595	21-Dec-13	ALEX122113 (1).SSF	573912.375	34667
721996.404	4294314.239	8398	21-Dec-13	ALEX122113 (1).SSF	573913.4751	34668
721996.03	4294313.804	10079	21-Dec-13	ALEX122113 (1).SSF	573914.4438	34669
721995.774	4294313.601	9630	21-Dec-13	ALEX122113 (1).SSF	573915.4512	34670
721995.707	4294313.605	9817	21-Dec-13	ALEX122113 (1).SSF	573916.396	34671
721995.697	4294313.615	10254	21-Dec-13	ALEX122113 (1).SSF	573917.4341	34672
721995.642	4294313.575	9253	21-Dec-13	ALEX122113 (1).SSF	573918.417	34673
721995.64	4294313.509	9033	21-Dec-13	ALEX122113 (1).SSF	573919.3999	34674
721995.66	4294313.456	9428	21-Dec-13	ALEX122113 (1).SSF	573920.416	34675
721995.685	4294313.423	10037	21-Dec-13	ALEX122113 (1).SSF	573921.479	34676
721995.708	4294313.401	10069	21-Dec-13	ALEX122113 (1).SSF	573922.3198	34677
721995.712	4294313.392	9837	21-Dec-13	ALEX122113 (1).SSF	573923.4458	34678
721995.698	4294313.399	8999	21-Dec-13	ALEX122113 (1).SSF	573924.3408	34679
721995.744	4294313.364	10050	21-Dec-13	ALEX122113 (1).SSF	573925.4951	34680
721995.794	4294313.339	10012	21-Dec-13	ALEX122113 (1).SSF	573926.5259	34681
721995.777	4294313.359	9403	21-Dec-13	ALEX122113 (1).SSF	573927.5479	34682
721995.801	4294313.381	10150	21-Dec-13	ALEX122113 (1).SSF	573928.4731	34683
721995.89	4294313.397	9227	21-Dec-13	ALEX122113 (1).SSF	573929.5732	34684
721995.951	4294313.408	9086	21-Dec-13	ALEX122113 (1).SSF	573930.4609	34685
721995.985	4294313.416	10341	21-Dec-13	ALEX122113 (1).SSF	573931.0249	34686
721996.049	4294313.454	10415	21-Dec-13	ALEX122113 (1).SSF	573931.9692	34687
721996.033	4294313.482	9953	21-Dec-13	ALEX122113 (1).SSF	573933.0742	34688
721996.033	4294313.439	9688	21-Dec-13	ALEX122113 (1).SSF	573933.9902	34689
721995.916	4294313.256	9022	21-Dec-13	ALEX122113 (1).SSF	573935.4531	34690
721995.592	4294312.983	8855	21-Dec-13	ALEX122113 (1).SSF	573936.4409	34691
721995.145	4294312.527	8333	21-Dec-13	ALEX122113 (1).SSF	573937.4302	34692
721994.69	4294311.963	9343	21-Dec-13	ALEX122113 (1).SSF	573938.4102	34693
721994.31	4294311.574	9236	21-Dec-13	ALEX122113 (1).SSF	573939.5269	34694
721994.038	4294311.487	8609	21-Dec-13	ALEX122113 (1).SSF	573940.3638	34695
721993.647	4294311.332	9172	21-Dec-13	ALEX122113 (1).SSF	573941.394	34696
721993.335	4294310.909	9283	21-Dec-13	ALEX122113 (1).SSF	573942.3188	34697
721992.931	4294310.074	9490	21-Dec-13	ALEX122113 (1).SSF	573943.4141	34698
721992.551	4294309.403	8882	21-Dec-13	ALEX122113 (1).SSF	573944.3032	34699
721992.125	4294308.611	9570	21-Dec-13	ALEX122113 (1).SSF	573945.4692	34700
721991.654	4294307.886	8752	21-Dec-13	ALEX122113 (1).SSF	573946.458	34701
721990.936	4294307.03	10318	21-Dec-13	ALEX122113 (1).SSF	573947.5459	34702
721990.448	4294306.372	9479	21-Dec-13	ALEX122113 (1).SSF	573948.4531	34703
721989.932	4294305.59	9090	21-Dec-13	ALEX122113 (1).SSF	573949.521	34704
721989.437	4294304.933	9172	21-Dec-13	ALEX122113 (1).SSF	573950.4351	34705
721988.992	4294304.348	10003	21-Dec-13	ALEX122113 (1).SSF	573951.4531	34706

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721988.653	4294303.904	9700	21-Dec-13	ALEX122113 (1).SSF	573952.438	34707
721988.257	4294303.376	10555	21-Dec-13	ALEX122113 (1).SSF	573953.5049	34708
721987.845	4294302.783	10588	21-Dec-13	ALEX122113 (1).SSF	573954.481	34709
721987.41	4294302.251	9307	21-Dec-13	ALEX122113 (1).SSF	573955.4302	34710
721987.01	4294301.763	9826	21-Dec-13	ALEX122113 (1).SSF	573956.3599	34711
721986.508	4294301.077	9356	21-Dec-13	ALEX122113 (1).SSF	573957.4668	34712
721986.037	4294300.597	8549	21-Dec-13	ALEX122113 (1).SSF	573958.3589	34713
721985.477	4294300.024	9097	21-Dec-13	ALEX122113 (1).SSF	573959.3979	34714
721984.975	4294299.334	9714	21-Dec-13	ALEX122113 (1).SSF	573960.417	34715
721984.473	4294298.695	8398	21-Dec-13	ALEX122113 (1).SSF	573961.4702	34716
721984.085	4294298.193	9509	21-Dec-13	ALEX122113 (1).SSF	573962.4111	34717
721983.645	4294297.549	10237	21-Dec-13	ALEX122113 (1).SSF	573963.4761	34718
721983.203	4294296.979	9009	21-Dec-13	ALEX122113 (1).SSF	573964.415	34719
721982.751	4294296.443	10112	21-Dec-13	ALEX122113 (1).SSF	573965.4351	34720
721982.308	4294295.952	10576	21-Dec-13	ALEX122113 (1).SSF	573966.3408	34721
721981.666	4294295.284	10472	21-Dec-13	ALEX122113 (1).SSF	573967.4541	34722
721981.215	4294294.681	10478	21-Dec-13	ALEX122113 (1).SSF	573968.376	34723
721980.671	4294293.892	10029	21-Dec-13	ALEX122113 (1).SSF	573969.4922	34724
721980.089	4294293.243	9437	21-Dec-13	ALEX122113 (1).SSF	573970.436	34725
721979.498	4294292.602	9919	21-Dec-13	ALEX122113 (1).SSF	573971.5479	34726
721979.173	4294292.231	10369	21-Dec-13	ALEX122113 (1).SSF	573972.4482	34727
721978.829	4294291.78	9222	21-Dec-13	ALEX122113 (1).SSF	573973.4678	34728
721978.492	4294291.166	10225	21-Dec-13	ALEX122113 (1).SSF	573974.4668	34729
721978.161	4294290.458	9396	21-Dec-13	ALEX122113 (1).SSF	573975.4678	34730
721977.734	4294289.726	10119	21-Dec-13	ALEX122113 (1).SSF	573976.4092	34731
721977.127	4294288.917	10239	21-Dec-13	ALEX122113 (1).SSF	573977.4229	34732
721976.624	4294288.271	9340	21-Dec-13	ALEX122113 (1).SSF	573978.374	34733
721976.3	4294287.872	8995	21-Dec-13	ALEX122113 (1).SSF	573979.4639	34734
721976.172	4294287.805	7588	21-Dec-13	ALEX122113 (1).SSF	573980.4268	34735
721976.105	4294287.724	8377	21-Dec-13	ALEX122113 (1).SSF	573981.4912	34736
721975.991	4294287.45	7464	21-Dec-13	ALEX122113 (1).SSF	573982.4028	34737
721975.752	4294286.854	8376	21-Dec-13	ALEX122113 (1).SSF	573983.4751	34738
721975.443	4294286.345	8244	21-Dec-13	ALEX122113 (1).SSF	573984.394	34739
721975.05	4294285.922	8061	21-Dec-13	ALEX122113 (1).SSF	573985.3569	34740
721974.633	4294285.418	7235	21-Dec-13	ALEX122113 (1).SSF	573986.3081	34741
721974.011	4294284.608	6968	21-Dec-13	ALEX122113 (1).SSF	573987.4429	34742
721973.494	4294283.896	6992	21-Dec-13	ALEX122113 (1).SSF	573988.3652	34743
721973.05	4294283.174	7028	21-Dec-13	ALEX122113 (1).SSF	573989.3779	34744
721972.558	4294282.474	7097	21-Dec-13	ALEX122113 (1).SSF	573990.3418	34745
721971.961	4294281.663	6904	21-Dec-13	ALEX122113 (1).SSF	573991.4541	34746
721971.524	4294280.985	6316	21-Dec-13	ALEX122113 (1).SSF	573992.3818	34747
721971.002	4294280.275	6049	21-Dec-13	ALEX122113 (1).SSF	573993.4692	34748
721970.586	4294279.697	6753	21-Dec-13	ALEX122113 (1).SSF	573994.4028	34749
721970.132	4294279.013	7838	21-Dec-13	ALEX122113 (1).SSF	573995.4409	34750
721969.604	4294278.379	8409	21-Dec-13	ALEX122113 (1).SSF	573996.437	34751
721969.017	4294277.79	7022	21-Dec-13	ALEX122113 (1).SSF	573997.438	34752
721968.533	4294277.22	8175	21-Dec-13	ALEX122113 (1).SSF	573998.3691	34753

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721968.079	4294276.436	8013	21-Dec-13	ALEX122113 (1).SSF	573999.438	34754
721967.662	4294275.696	8393	21-Dec-13	ALEX122113 (1).SSF	574000.3701	34755
721967.164	4294274.911	7528	21-Dec-13	ALEX122113 (1).SSF	574001.416	34756
721966.735	4294274.225	8242	21-Dec-13	ALEX122113 (1).SSF	574002.374	34757
721966.287	4294273.578	8720	21-Dec-13	ALEX122113 (1).SSF	574003.4199	34758
721965.9	4294273.05	8750	21-Dec-13	ALEX122113 (1).SSF	574004.3652	34759
721965.591	4294272.477	9207	21-Dec-13	ALEX122113 (1).SSF	574005.5298	34760
721965.451	4294272.266	8242	21-Dec-13	ALEX122113 (1).SSF	574006.418	34761
721965.359	4294272.271	7820	21-Dec-13	ALEX122113 (1).SSF	574007.4839	34762
721965.299	4294272.359	7295	21-Dec-13	ALEX122113 (1).SSF	574008.4399	34763
721965.207	4294272.575	7793	21-Dec-13	ALEX122113 (1).SSF	574009.54	34764
721965.05	4294272.814	8458	21-Dec-13	ALEX122113 (1).SSF	574010.3999	34765
721964.765	4294273.036	9254	21-Dec-13	ALEX122113 (1).SSF	574011.439	34766
721964.435	4294273.063	8733	21-Dec-13	ALEX122113 (1).SSF	574012.4482	34767
721964.16	4294272.945	8273	21-Dec-13	ALEX122113 (1).SSF	574013.48	34768
721964.141	4294272.867	7798	21-Dec-13	ALEX122113 (1).SSF	574014.4971	34769
721964.181	4294272.854	7919	21-Dec-13	ALEX122113 (1).SSF	574015.3701	34770
721964.133	4294272.844	7470	21-Dec-13	ALEX122113 (1).SSF	574016.3311	34771
721964.096	4294272.875	8467	21-Dec-13	ALEX122113 (1).SSF	574017.4351	34772
721964.091	4294273.088	7696	21-Dec-13	ALEX122113 (1).SSF	574018.3521	34773
721964.108	4294273.421	7714	21-Dec-13	ALEX122113 (1).SSF	574019.4678	34774
721964.186	4294273.603	8648	21-Dec-13	ALEX122113 (1).SSF	574020.4092	34775
721964.339	4294273.897	7592	21-Dec-13	ALEX122113 (1).SSF	574021.4629	34776
721964.589	4294274.465	6848	21-Dec-13	ALEX122113 (1).SSF	574022.3979	34777
721964.897	4294275.256	8462	21-Dec-13	ALEX122113 (1).SSF	574023.4878	34778
721965.112	4294275.783	7755	21-Dec-13	ALEX122113 (1).SSF	574024.374	34779
721965.443	4294276.429	6948	21-Dec-13	ALEX122113 (1).SSF	574025.4502	34780
721965.719	4294276.973	6777	21-Dec-13	ALEX122113 (1).SSF	574026.2949	34781
721966.136	4294277.528	7604	21-Dec-13	ALEX122113 (1).SSF	574027.418	34782
721966.405	4294277.864	7241	21-Dec-13	ALEX122113 (1).SSF	574028.3638	34783
721966.666	4294278.278	7540	21-Dec-13	ALEX122113 (1).SSF	574029.3999	34784
721967.019	4294278.87	7825	21-Dec-13	ALEX122113 (1).SSF	574030.3418	34785
721967.384	4294279.615	7956	21-Dec-13	ALEX122113 (1).SSF	574031.3838	34786
721967.7	4294280.161	7719	21-Dec-13	ALEX122113 (1).SSF	574032.2959	34787
721968.186	4294280.827	7029	21-Dec-13	ALEX122113 (1).SSF	574033.4209	34788
721968.654	4294281.486	6647	21-Dec-13	ALEX122113 (1).SSF	574034.3599	34789
721969.193	4294282.142	6671	21-Dec-13	ALEX122113 (1).SSF	574035.4639	34790
721969.619	4294282.732	6018	21-Dec-13	ALEX122113 (1).SSF	574036.4819	34791
721970.084	4294283.367	6137	21-Dec-13	ALEX122113 (1).SSF	574037.5269	34792
721970.609	4294283.861	6694	21-Dec-13	ALEX122113 (1).SSF	574038.4009	34793
721971.218	4294284.441	6083	21-Dec-13	ALEX122113 (1).SSF	574039.5112	34794
721971.62	4294284.949	7881	21-Dec-13	ALEX122113 (1).SSF	574040.4072	34795
721972.171	4294285.608	7520	21-Dec-13	ALEX122113 (1).SSF	574041.4419	34796
721972.568	4294286.16	8030	21-Dec-13	ALEX122113 (1).SSF	574042.375	34797
721972.87	4294286.635	7467	21-Dec-13	ALEX122113 (1).SSF	574043.4829	34798
721973.187	4294286.969	7417	21-Dec-13	ALEX122113 (1).SSF	574044.3999	34799
721973.694	4294287.44	7764	21-Dec-13	ALEX122113 (1).SSF	574045.4189	34800

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721974.293	4294288.049	8361	21-Dec-13	ALEX122113 (1).SSF	574046.3691	34801
721974.881	4294288.799	9380	21-Dec-13	ALEX122113 (1).SSF	574047.4912	34802
721975.199	4294289.281	7865	21-Dec-13	ALEX122113 (1).SSF	574048.3301	34803
721975.696	4294290.068	9136	21-Dec-13	ALEX122113 (1).SSF	574049.479	34804
721976.181	4294290.801	9184	21-Dec-13	ALEX122113 (1).SSF	574050.4038	34805
721976.715	4294291.452	8926	21-Dec-13	ALEX122113 (1).SSF	574051.5181	34806
721977.024	4294291.789	7271	21-Dec-13	ALEX122113 (1).SSF	574052.4189	34807
721977.34	4294292.154	9018	21-Dec-13	ALEX122113 (1).SSF	574053.5039	34808
721977.684	4294292.595	8974	21-Dec-13	ALEX122113 (1).SSF	574054.4888	34809
721978.242	4294293.284	9773	21-Dec-13	ALEX122113 (1).SSF	574055.4629	34810
721978.897	4294294.108	9613	21-Dec-13	ALEX122113 (1).SSF	574056.4219	34811
721979.396	4294294.832	9603	21-Dec-13	ALEX122113 (1).SSF	574057.4971	34812
721979.686	4294295.249	9930	21-Dec-13	ALEX122113 (1).SSF	574058.396	34813
721979.961	4294295.704	10282	21-Dec-13	ALEX122113 (1).SSF	574059.4199	34814
721980.24	4294296.276	11141	21-Dec-13	ALEX122113 (1).SSF	574060.3691	34815
721980.751	4294297.037	10557	21-Dec-13	ALEX122113 (1).SSF	574061.4619	34816
721981.209	4294297.656	9479	21-Dec-13	ALEX122113 (1).SSF	574062.3071	34817
721981.754	4294298.35	10920	21-Dec-13	ALEX122113 (1).SSF	574063.4111	34818
721982.123	4294298.729	10140	21-Dec-13	ALEX122113 (1).SSF	574064.314	34819
721982.544	4294299.124	9697	21-Dec-13	ALEX122113 (1).SSF	574065.376	34820
721982.975	4294299.576	8964	21-Dec-13	ALEX122113 (1).SSF	574066.333	34821
721983.482	4294300.161	8481	21-Dec-13	ALEX122113 (1).SSF	574067.4321	34822
721983.96	4294300.606	9800	21-Dec-13	ALEX122113 (1).SSF	574068.3491	34823
721984.343	4294301.063	9980	21-Dec-13	ALEX122113 (1).SSF	574069.4502	34824
721984.523	4294301.456	8885	21-Dec-13	ALEX122113 (1).SSF	574070.3779	34825
721984.821	4294302.028	10981	21-Dec-13	ALEX122113 (1).SSF	574071.4282	34826
721985.097	4294302.531	9165	21-Dec-13	ALEX122113 (1).SSF	574072.4629	34827
721985.44	4294303.059	10541	21-Dec-13	ALEX122113 (1).SSF	574073.4131	34828
721985.917	4294303.648	11365	21-Dec-13	ALEX122113 (1).SSF	574074.416	34829
721986.482	4294304.238	11061	21-Dec-13	ALEX122113 (1).SSF	574075.4639	34830
721986.899	4294304.707	9755	21-Dec-13	ALEX122113 (1).SSF	574076.3398	34831
721987.341	4294305.152	11468	21-Dec-13	ALEX122113 (1).SSF	574077.4429	34832
721987.718	4294305.516	10157	21-Dec-13	ALEX122113 (1).SSF	574078.3428	34833
721988.193	4294306.098	9199	21-Dec-13	ALEX122113 (1).SSF	574079.4668	34834
721988.581	4294306.585	9229	21-Dec-13	ALEX122113 (1).SSF	574080.3262	34835
721989.119	4294307.301	10017	21-Dec-13	ALEX122113 (1).SSF	574081.3999	34836
721989.572	4294308.014	10484	21-Dec-13	ALEX122113 (1).SSF	574082.2979	34837
721990.122	4294308.704	9791	21-Dec-13	ALEX122113 (1).SSF	574083.373	34838
721990.493	4294309.254	9227	21-Dec-13	ALEX122113 (1).SSF	574084.3931	34839
721990.81	4294309.937	10046	21-Dec-13	ALEX122113 (1).SSF	574085.3901	34840
721991.266	4294310.708	9111	21-Dec-13	ALEX122113 (1).SSF	574086.356	34841
721991.739	4294311.394	9838	21-Dec-13	ALEX122113 (1).SSF	574087.3711	34842
721992.254	4294311.725	9539	21-Dec-13	ALEX122113 (1).SSF	574088.373	34843
721992.734	4294312.096	10372	21-Dec-13	ALEX122113 (1).SSF	574089.4058	34844
721993.134	4294312.658	9283	21-Dec-13	ALEX122113 (1).SSF	574090.4321	34845
721993.598	4294313.381	10000	21-Dec-13	ALEX122113 (1).SSF	574091.4409	34846
721994.093	4294314.164	10300	21-Dec-13	ALEX122113 (1).SSF	574092.3599	34847

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721994.626	4294314.836	9415	21-Dec-13	ALEX122113 (1).SSF	574093.4341	34848
721994.982	4294315.184	9193	21-Dec-13	ALEX122113 (1).SSF	574094.3398	34849
721995.332	4294315.619	9828	21-Dec-13	ALEX122113 (1).SSF	574095.3799	34850
721995.724	4294316.145	11907	21-Dec-13	ALEX122113 (1).SSF	574096.3281	34851
721996.116	4294316.818	9546	21-Dec-13	ALEX122113 (1).SSF	574097.4219	34852
721996.272	4294317.154	9736	21-Dec-13	ALEX122113 (1).SSF	574098.3638	34853
721996.282	4294317.271	9604	21-Dec-13	ALEX122113 (1).SSF	574099.4658	34854
721996.249	4294317.345	10261	21-Dec-13	ALEX122113 (1).SSF	574100.3511	34855
721996.191	4294317.448	9645	21-Dec-13	ALEX122113 (1).SSF	574101.4229	34856
721996.086	4294317.512	10481	21-Dec-13	ALEX122113 (1).SSF	574102.333	34857
721996.12	4294317.525	9610	21-Dec-13	ALEX122113 (1).SSF	574103.3599	34858
721996.409	4294317.365	9002	21-Dec-13	ALEX122113 (1).SSF	574104.3672	34859
721996.49	4294317.268	10200	21-Dec-13	ALEX122113 (1).SSF	574105.481	34860
721996.27	4294317.403	9780	21-Dec-13	ALEX122113 (1).SSF	574106.4561	34861
721996.081	4294317.453	9525	21-Dec-13	ALEX122113 (1).SSF	574107.4321	34862
721995.981	4294317.508	10301	21-Dec-13	ALEX122113 (1).SSF	574108.438	34863
721995.958	4294317.737	9325	21-Dec-13	ALEX122113 (1).SSF	574109.3862	34864
721996.13	4294318.042	10341	21-Dec-13	ALEX122113 (1).SSF	574110.374	34865
721996.294	4294318.088	11285	21-Dec-13	ALEX122113 (1).SSF	574111.3999	34866
721996.322	4294317.967	9691	21-Dec-13	ALEX122113 (1).SSF	574112.3472	34867
721996.264	4294317.988	9622	21-Dec-13	ALEX122113 (1).SSF	574113.396	34868
721996.19	4294318.017	9395	21-Dec-13	ALEX122113 (1).SSF	574114.3579	34869
721996.154	4294318.021	9789	21-Dec-13	ALEX122113 (1).SSF	574115.3848	34870
721996.105	4294318.017	10877	21-Dec-13	ALEX122113 (1).SSF	574116.3472	34871
721996.059	4294317.963	10309	21-Dec-13	ALEX122113 (1).SSF	574117.3608	34872
721996.027	4294317.909	9207	21-Dec-13	ALEX122113 (1).SSF	574118.3599	34873
721995.989	4294317.858	9892	21-Dec-13	ALEX122113 (1).SSF	574119.3872	34874
721995.983	4294317.82	9973	21-Dec-13	ALEX122113 (1).SSF	574120.3701	34875
721995.982	4294317.787	10293	21-Dec-13	ALEX122113 (1).SSF	574121.3652	34876
721995.97	4294317.77	10823	21-Dec-13	ALEX122113 (1).SSF	574122.3608	34877
721995.974	4294317.747	9365	21-Dec-13	ALEX122113 (1).SSF	574123.4722	34878
721995.993	4294317.716	10711	21-Dec-13	ALEX122113 (1).SSF	574124.3608	34879
721996.008	4294317.694	9787	21-Dec-13	ALEX122113 (1).SSF	574125.3862	34880
721996.013	4294317.693	10337	21-Dec-13	ALEX122113 (1).SSF	574126.3291	34881
721996.006	4294317.679	10084	21-Dec-13	ALEX122113 (1).SSF	574127.3911	34882
721995.999	4294317.658	9391	21-Dec-13	ALEX122113 (1).SSF	574128.334	34883
721995.997	4294317.633	9727	21-Dec-13	ALEX122113 (1).SSF	574129.3408	34884
721996	4294317.612	9962	21-Dec-13	ALEX122113 (1).SSF	574130.3901	34885
721995.983	4294317.595	10620	21-Dec-13	ALEX122113 (1).SSF	574131.4971	34886
721995.973	4294317.584	10185	21-Dec-13	ALEX122113 (1).SSF	574132.3599	34887
721995.959	4294317.575	10406	21-Dec-13	ALEX122113 (1).SSF	574133.4609	34888
721995.954	4294317.572	10101	21-Dec-13	ALEX122113 (1).SSF	574134.3882	34889
721995.956	4294317.568	9965	21-Dec-13	ALEX122113 (1).SSF	574135.3779	34890
721995.956	4294317.562	9841	21-Dec-13	ALEX122113 (1).SSF	574136.334	34891
721995.951	4294317.558	9510	21-Dec-13	ALEX122113 (1).SSF	574137.4111	34892
721995.944	4294317.557	9517	21-Dec-13	ALEX122113 (1).SSF	574138.3389	34893
721995.926	4294317.552	9789	21-Dec-13	ALEX122113 (1).SSF	574139.3901	34894

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721995.921	4294317.538	9707	21-Dec-13	ALEX122113 (1).SSF	574140.3291	34895
721995.91	4294317.538	10376	21-Dec-13	ALEX122113 (1).SSF	574141.4351	34896
721995.914	4294317.562	9704	21-Dec-13	ALEX122113 (1).SSF	574142.3379	34897
721995.713	4294317.079	9021	21-Dec-13	ALEX122113 (1).SSF	574285.4229	34898
721995.713	4294317.079	9095	21-Dec-13	ALEX122113 (1).SSF	574286.2842	34899
721995.715	4294317.087	10643	21-Dec-13	ALEX122113 (1).SSF	574287.4341	34900
721995.714	4294317.084	9951	21-Dec-13	ALEX122113 (1).SSF	574288.2871	34901
721995.718	4294317.059	9717	21-Dec-13	ALEX122113 (1).SSF	574289.377	34902
721995.731	4294317.053	9509	21-Dec-13	ALEX122113 (1).SSF	574290.333	34903
721995.78	4294317.042	9577	21-Dec-13	ALEX122113 (1).SSF	574291.4209	34904
721995.839	4294316.995	9534	21-Dec-13	ALEX122113 (1).SSF	574292.3462	34905
721995.917	4294316.92	9733	21-Dec-13	ALEX122113 (1).SSF	574293.4048	34906
721996.007	4294316.846	9693	21-Dec-13	ALEX122113 (1).SSF	574294.3828	34907
721996.062	4294316.842	9503	21-Dec-13	ALEX122113 (1).SSF	574295.314	34908
721996.014	4294316.916	9185	21-Dec-13	ALEX122113 (1).SSF	574296.3442	34909
721995.776	4294317.03	9106	21-Dec-13	ALEX122113 (1).SSF	574297.3789	34910
721995.582	4294317.18	9626	21-Dec-13	ALEX122113 (1).SSF	574298.3262	34911
721995.598	4294317.265	9156	21-Dec-13	ALEX122113 (1).SSF	574299.4131	34912
721995.677	4294317.25	9519	21-Dec-13	ALEX122113 (1).SSF	574300.4219	34913
721995.627	4294317.169	9729	21-Dec-13	ALEX122113 (1).SSF	574301.4199	34914
721995.478	4294316.879	9452	21-Dec-13	ALEX122113 (1).SSF	574302.4092	34915
721995.22	4294316.456	9083	21-Dec-13	ALEX122113 (1).SSF	574303.3892	34916
721994.905	4294316.072	9500	21-Dec-13	ALEX122113 (1).SSF	574304.2788	34917
721994.432	4294315.445	9635	21-Dec-13	ALEX122113 (1).SSF	574305.3721	34918
721993.911	4294314.736	9968	21-Dec-13	ALEX122113 (1).SSF	574306.3071	34919
721993.329	4294313.942	9392	21-Dec-13	ALEX122113 (1).SSF	574307.417	34920
721992.924	4294313.382	9338	21-Dec-13	ALEX122113 (1).SSF	574308.3208	34921
721992.339	4294312.705	9264	21-Dec-13	ALEX122113 (1).SSF	574309.3838	34922
721991.823	4294312.12	9336	21-Dec-13	ALEX122113 (1).SSF	574310.3091	34923
721991.358	4294311.608	9444	21-Dec-13	ALEX122113 (1).SSF	574311.3389	34924
721990.977	4294311.15	9201	21-Dec-13	ALEX122113 (1).SSF	574312.2939	34925
721990.478	4294310.492	9800	21-Dec-13	ALEX122113 (1).SSF	574313.3799	34926
721989.968	4294309.938	9920	21-Dec-13	ALEX122113 (1).SSF	574314.334	34927
721989.445	4294309.368	9830	21-Dec-13	ALEX122113 (1).SSF	574315.3721	34928
721989.026	4294308.825	9717	21-Dec-13	ALEX122113 (1).SSF	574316.292	34929
721988.44	4294308.277	10199	21-Dec-13	ALEX122113 (1).SSF	574317.4268	34930
721987.95	4294307.863	8430	21-Dec-13	ALEX122113 (1).SSF	574318.2471	34931
721987.33	4294307.02	8887	21-Dec-13	ALEX122113 (1).SSF	574319.3818	34932
721986.866	4294306.342	8821	21-Dec-13	ALEX122113 (1).SSF	574320.3491	34933
721986.421	4294305.764	8505	21-Dec-13	ALEX122113 (1).SSF	574321.3169	34934
721985.972	4294305.126	9776	21-Dec-13	ALEX122113 (1).SSF	574322.2891	34935
721985.491	4294304.592	10244	21-Dec-13	ALEX122113 (1).SSF	574323.3652	34936
721985.027	4294304.188	10601	21-Dec-13	ALEX122113 (1).SSF	574324.3672	34937
721984.641	4294303.65	9340	21-Dec-13	ALEX122113 (1).SSF	574325.374	34938
721984.345	4294303.129	10465	21-Dec-13	ALEX122113 (1).SSF	574326.3408	34939
721984.009	4294302.614	9486	21-Dec-13	ALEX122113 (1).SSF	574327.4102	34940
721983.617	4294302.078	9901	21-Dec-13	ALEX122113 (1).SSF	574328.3638	34941

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721983.064	4294301.525	10515	21-Dec-13	ALEX122113 (1).SSF	574329.3682	34942
721982.596	4294301.064	9918	21-Dec-13	ALEX122113 (1).SSF	574330.2778	34943
721982.132	4294300.435	9919	21-Dec-13	ALEX122113 (1).SSF	574331.3511	34944
721981.657	4294299.764	9140	21-Dec-13	ALEX122113 (1).SSF	574332.3159	34945
721981.21	4294299.123	9275	21-Dec-13	ALEX122113 (1).SSF	574333.2998	34946
721980.806	4294298.607	9218	21-Dec-13	ALEX122113 (1).SSF	574334.3291	34947
721980.394	4294297.986	8934	21-Dec-13	ALEX122113 (1).SSF	574335.3569	34948
721979.971	4294297.286	9433	21-Dec-13	ALEX122113 (1).SSF	574336.2021	34949
721979.292	4294296.335	10008	21-Dec-13	ALEX122113 (1).SSF	574337.3872	34950
721978.835	4294295.751	8982	21-Dec-13	ALEX122113 (1).SSF	574338.2729	34951
721978.316	4294294.969	10105	21-Dec-13	ALEX122113 (1).SSF	574339.3218	34952
721977.776	4294294.247	10926	21-Dec-13	ALEX122113 (1).SSF	574340.2808	34953
721977.221	4294293.684	9691	21-Dec-13	ALEX122113 (1).SSF	574341.311	34954
721976.706	4294293.076	9082	21-Dec-13	ALEX122113 (1).SSF	574342.354	34955
721976.111	4294292.271	8690	21-Dec-13	ALEX122113 (1).SSF	574343.3628	34956
721975.604	4294291.569	9702	21-Dec-13	ALEX122113 (1).SSF	574344.2788	34957
721975.1	4294291.016	10375	21-Dec-13	ALEX122113 (1).SSF	574345.4082	34958
721974.685	4294290.548	9344	21-Dec-13	ALEX122113 (1).SSF	574346.3501	34959
721974.205	4294289.812	9326	21-Dec-13	ALEX122113 (1).SSF	574347.3672	34960
721973.682	4294289.143	8751	21-Dec-13	ALEX122113 (1).SSF	574348.3711	34961
721973.193	4294288.606	7917	21-Dec-13	ALEX122113 (1).SSF	574349.4419	34962
721972.852	4294288.18	9629	21-Dec-13	ALEX122113 (1).SSF	574350.2808	34963
721972.371	4294287.61	8227	21-Dec-13	ALEX122113 (1).SSF	574351.3032	34964
721972.004	4294287.093	7216	21-Dec-13	ALEX122113 (1).SSF	574352.335	34965
721971.694	4294286.615	7414	21-Dec-13	ALEX122113 (1).SSF	574353.3418	34966
721971.313	4294286.097	6053	21-Dec-13	ALEX122113 (1).SSF	574354.3291	34967
721970.839	4294285.331	6215	21-Dec-13	ALEX122113 (1).SSF	574355.3921	34968
721970.333	4294284.596	7133	21-Dec-13	ALEX122113 (1).SSF	574356.3809	34969
721969.785	4294283.949	6613	21-Dec-13	ALEX122113 (1).SSF	574357.3799	34970
721969.237	4294283.207	6903	21-Dec-13	ALEX122113 (1).SSF	574358.3999	34971
721968.741	4294282.541	6255	21-Dec-13	ALEX122113 (1).SSF	574359.376	34972
721968.359	4294282.029	6573	21-Dec-13	ALEX122113 (1).SSF	574360.272	34973
721967.964	4294281.343	7733	21-Dec-13	ALEX122113 (1).SSF	574361.3242	34974
721967.462	4294280.631	7783	21-Dec-13	ALEX122113 (1).SSF	574362.332	34975
721966.951	4294280.019	6356	21-Dec-13	ALEX122113 (1).SSF	574363.3281	34976
721966.566	4294279.408	6178	21-Dec-13	ALEX122113 (1).SSF	574364.3032	34977
721966.094	4294278.705	7514	21-Dec-13	ALEX122113 (1).SSF	574365.416	34978
721965.691	4294278.224	7458	21-Dec-13	ALEX122113 (1).SSF	574366.3149	34979
721965.192	4294277.699	7804	21-Dec-13	ALEX122113 (1).SSF	574367.3828	34980
721964.644	4294277.434	7981	21-Dec-13	ALEX122113 (1).SSF	574368.2949	34981
721964.264	4294277.306	7125	21-Dec-13	ALEX122113 (1).SSF	574369.3701	34982
721964.303	4294277.202	7841	21-Dec-13	ALEX122113 (1).SSF	574370.3198	34983
721964.459	4294277.059	9070	21-Dec-13	ALEX122113 (1).SSF	574371.4829	34984
721964.51	4294276.992	7817	21-Dec-13	ALEX122113 (1).SSF	574372.3569	34985
721964.521	4294276.931	6844	21-Dec-13	ALEX122113 (1).SSF	574373.3491	34986
721964.44	4294276.738	6391	21-Dec-13	ALEX122113 (1).SSF	574374.3818	34987
721964.094	4294276.319	6547	21-Dec-13	ALEX122113 (1).SSF	574375.4111	34988

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721963.717	4294275.839	6827	21-Dec-13	ALEX122113 (1).SSF	574376.3101	34989
721963.372	4294275.185	7016	21-Dec-13	ALEX122113 (1).SSF	574377.4019	34990
721963.108	4294274.563	8594	21-Dec-13	ALEX122113 (1).SSF	574378.3369	34991
721962.923	4294273.944	9168	21-Dec-13	ALEX122113 (1).SSF	574379.396	34992
721962.885	4294273.671	8862	21-Dec-13	ALEX122113 (1).SSF	574380.3101	34993
721962.886	4294273.588	8545	21-Dec-13	ALEX122113 (1).SSF	574381.3979	34994
721962.907	4294273.569	7896	21-Dec-13	ALEX122113 (1).SSF	574382.313	34995
721962.852	4294273.717	6834	21-Dec-13	ALEX122113 (1).SSF	574383.3828	34996
721962.526	4294273.986	7558	21-Dec-13	ALEX122113 (1).SSF	574384.2729	34997
721961.832	4294274.212	6959	21-Dec-13	ALEX122113 (1).SSF	574385.499	34998
721961.639	4294274.104	7410	21-Dec-13	ALEX122113 (1).SSF	574386.2368	34999
721961.693	4294273.929	8002	21-Dec-13	ALEX122113 (1).SSF	574387.2881	35000
721961.505	4294274.043	6440	21-Dec-13	ALEX122113 (1).SSF	574388.353	35001
721961.28	4294274.34	7190	21-Dec-13	ALEX122113 (1).SSF	574389.313	35002
721961.349	4294274.616	7227	21-Dec-13	ALEX122113 (1).SSF	574390.3301	35003
721961.505	4294274.7	8077	21-Dec-13	ALEX122113 (1).SSF	574391.375	35004
721961.577	4294274.735	7179	21-Dec-13	ALEX122113 (1).SSF	574392.3188	35005
721961.509	4294274.807	8124	21-Dec-13	ALEX122113 (1).SSF	574393.3418	35006
721961.412	4294274.921	7881	21-Dec-13	ALEX122113 (1).SSF	574394.3169	35007
721961.472	4294274.996	8060	21-Dec-13	ALEX122113 (1).SSF	574395.3618	35008
721961.639	4294275.11	8135	21-Dec-13	ALEX122113 (1).SSF	574396.2271	35009
721961.951	4294275.605	7553	21-Dec-13	ALEX122113 (1).SSF	574397.3442	35010
721962.316	4294276.179	7678	21-Dec-13	ALEX122113 (1).SSF	574398.2871	35011
721962.63	4294276.801	7349	21-Dec-13	ALEX122113 (1).SSF	574399.3779	35012
721962.564	4294277.095	7897	21-Dec-13	ALEX122113 (1).SSF	574400.292	35013
721962.426	4294277.109	7794	21-Dec-13	ALEX122113 (1).SSF	574401.4038	35014
721962.481	4294277.097	7318	21-Dec-13	ALEX122113 (1).SSF	574402.2979	35015
721962.782	4294277.392	7229	21-Dec-13	ALEX122113 (1).SSF	574403.3198	35016
721963.237	4294277.986	8377	21-Dec-13	ALEX122113 (1).SSF	574404.3188	35017
721963.715	4294278.529	8094	21-Dec-13	ALEX122113 (1).SSF	574405.2959	35018
721964.143	4294278.987	7093	21-Dec-13	ALEX122113 (1).SSF	574406.27	35019
721964.454	4294279.49	6423	21-Dec-13	ALEX122113 (1).SSF	574407.3052	35020
721964.93	4294280.046	6765	21-Dec-13	ALEX122113 (1).SSF	574408.3379	35021
721965.58	4294280.616	7121	21-Dec-13	ALEX122113 (1).SSF	574409.355	35022
721966.089	4294281.178	6310	21-Dec-13	ALEX122113 (1).SSF	574410.3208	35023
721966.531	4294281.757	5537	21-Dec-13	ALEX122113 (1).SSF	574411.3442	35024
721967.124	4294282.371	5635	21-Dec-13	ALEX122113 (1).SSF	574412.3472	35025
721967.747	4294283.084	6019	21-Dec-13	ALEX122113 (1).SSF	574413.4141	35026
721968.158	4294283.615	6787	21-Dec-13	ALEX122113 (1).SSF	574414.2378	35027
721968.736	4294284.389	5950	21-Dec-13	ALEX122113 (1).SSF	574415.3892	35028
721969.114	4294284.939	6414	21-Dec-13	ALEX122113 (1).SSF	574416.1938	35029
721969.582	4294285.71	6553	21-Dec-13	ALEX122113 (1).SSF	574417.3838	35030
721969.995	4294286.296	6948	21-Dec-13	ALEX122113 (1).SSF	574418.2988	35031
721970.621	4294287.114	7077	21-Dec-13	ALEX122113 (1).SSF	574419.3481	35032
721971.19	4294287.844	6749	21-Dec-13	ALEX122113 (1).SSF	574420.3618	35033
721971.701	4294288.607	6577	21-Dec-13	ALEX122113 (1).SSF	574421.396	35034
721972.196	4294289.274	8304	21-Dec-13	ALEX122113 (1).SSF	574422.3071	35035

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721972.678	4294289.869	8166	21-Dec-13	ALEX122113 (1).SSF	574423.3018	35036
721973.119	4294290.447	8401	21-Dec-13	ALEX122113 (1).SSF	574424.3071	35037
721973.731	4294291.296	8700	21-Dec-13	ALEX122113 (1).SSF	574425.4082	35038
721974.226	4294292.019	8295	21-Dec-13	ALEX122113 (1).SSF	574426.3018	35039
721974.782	4294292.828	9213	21-Dec-13	ALEX122113 (1).SSF	574427.3032	35040
721975.325	4294293.536	9563	21-Dec-13	ALEX122113 (1).SSF	574428.3008	35041
721975.866	4294294.353	9501	21-Dec-13	ALEX122113 (1).SSF	574429.332	35042
721976.391	4294295.095	9635	21-Dec-13	ALEX122113 (1).SSF	574430.2852	35043
721976.899	4294295.761	9608	21-Dec-13	ALEX122113 (1).SSF	574431.3159	35044
721977.267	4294296.315	10142	21-Dec-13	ALEX122113 (1).SSF	574432.27	35045
721977.735	4294297.111	8865	21-Dec-13	ALEX122113 (1).SSF	574433.354	35046
721978.112	4294297.691	9896	21-Dec-13	ALEX122113 (1).SSF	574434.2622	35047
721978.514	4294298.157	9164	21-Dec-13	ALEX122113 (1).SSF	574435.353	35048
721979.027	4294298.625	9011	21-Dec-13	ALEX122113 (1).SSF	574436.3511	35049
721979.61	4294299.448	8762	21-Dec-13	ALEX122113 (1).SSF	574437.4048	35050
721980.106	4294300.192	9450	21-Dec-13	ALEX122113 (1).SSF	574438.269	35051
721980.549	4294300.919	10312	21-Dec-13	ALEX122113 (1).SSF	574439.3389	35052
721980.793	4294301.371	10198	21-Dec-13	ALEX122113 (1).SSF	574440.27	35053
721981.251	4294302.066	9779	21-Dec-13	ALEX122113 (1).SSF	574441.311	35054
721981.7	4294302.766	9465	21-Dec-13	ALEX122113 (1).SSF	574442.1719	35055
721982.255	4294303.457	10886	21-Dec-13	ALEX122113 (1).SSF	574443.3398	35056
721982.671	4294303.773	9891	21-Dec-13	ALEX122113 (1).SSF	574444.2559	35057
721983.161	4294304.341	9072	21-Dec-13	ALEX122113 (1).SSF	574445.3652	35058
721983.697	4294305.007	10458	21-Dec-13	ALEX122113 (1).SSF	574446.332	35059
721984.215	4294305.687	10954	21-Dec-13	ALEX122113 (1).SSF	574447.3672	35060
721984.573	4294306.243	10178	21-Dec-13	ALEX122113 (1).SSF	574448.2969	35061
721985.105	4294307.002	10554	21-Dec-13	ALEX122113 (1).SSF	574449.3809	35062
721985.609	4294307.741	9358	21-Dec-13	ALEX122113 (1).SSF	574450.3418	35063
721986.092	4294308.513	8819	21-Dec-13	ALEX122113 (1).SSF	574451.3809	35064
721986.555	4294309.178	9015	21-Dec-13	ALEX122113 (1).SSF	574452.2949	35065
721987.186	4294309.955	9783	21-Dec-13	ALEX122113 (1).SSF	574453.2998	35066
721987.897	4294310.723	10695	21-Dec-13	ALEX122113 (1).SSF	574454.2778	35067
721988.573	4294311.437	9423	21-Dec-13	ALEX122113 (1).SSF	574455.3442	35068
721989.01	4294312.058	9526	21-Dec-13	ALEX122113 (1).SSF	574456.2119	35069
721989.514	4294312.769	10001	21-Dec-13	ALEX122113 (1).SSF	574457.2632	35070
721989.995	4294313.413	9880	21-Dec-13	ALEX122113 (1).SSF	574458.2861	35071
721990.442	4294314.146	10120	21-Dec-13	ALEX122113 (1).SSF	574459.3242	35072
721990.913	4294314.73	10480	21-Dec-13	ALEX122113 (1).SSF	574460.2959	35073
721991.387	4294315.347	9640	21-Dec-13	ALEX122113 (1).SSF	574461.3081	35074
721991.862	4294315.884	10660	21-Dec-13	ALEX122113 (1).SSF	574462.1919	35075
721992.793	4294316.449	10435	21-Dec-13	ALEX122113 (1).SSF	574463.2959	35076
721993.529	4294317.017	9538	21-Dec-13	ALEX122113 (1).SSF	574464.2729	35077
721994.008	4294317.737	8954	21-Dec-13	ALEX122113 (1).SSF	574465.2891	35078
721994.328	4294318.385	9288	21-Dec-13	ALEX122113 (1).SSF	574466.2378	35079
721994.546	4294319.082	9732	21-Dec-13	ALEX122113 (1).SSF	574467.3091	35080
721994.698	4294319.611	9903	21-Dec-13	ALEX122113 (1).SSF	574468.3271	35081
721994.859	4294319.809	9795	21-Dec-13	ALEX122113 (1).SSF	574469.3032	35082

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721994.854	4294319.817	10128	21-Dec-13	ALEX122113 (1).SSF	574470.2388	35083
721994.659	4294320.07	9162	21-Dec-13	ALEX122113 (1).SSF	574471.335	35084
721994.352	4294320.43	8800	21-Dec-13	ALEX122113 (1).SSF	574472.2798	35085
721994.084	4294320.718	9370	21-Dec-13	ALEX122113 (1).SSF	574473.3101	35086
721993.988	4294320.934	10082	21-Dec-13	ALEX122113 (1).SSF	574474.1768	35087
721993.915	4294321.015	10410	21-Dec-13	ALEX122113 (1).SSF	574475.291	35088
721993.788	4294320.879	9052	21-Dec-13	ALEX122113 (1).SSF	574476.3008	35089
721993.601	4294320.478	8383	21-Dec-13	ALEX122113 (1).SSF	574477.314	35090
721993.236	4294319.974	9356	21-Dec-13	ALEX122113 (1).SSF	574478.2549	35091
721992.568	4294319.256	9749	21-Dec-13	ALEX122113 (1).SSF	574479.3662	35092
721992.046	4294318.603	9667	21-Dec-13	ALEX122113 (1).SSF	574480.2251	35093
721991.533	4294317.86	10036	21-Dec-13	ALEX122113 (1).SSF	574481.3091	35094
721991.172	4294317.33	9049	21-Dec-13	ALEX122113 (1).SSF	574482.145	35095
721990.62	4294316.498	9282	21-Dec-13	ALEX122113 (1).SSF	574483.2231	35096
721990.066	4294315.9	8650	21-Dec-13	ALEX122113 (1).SSF	574484.2671	35097
721989.803	4294315.97	9962	21-Dec-13	ALEX122113 (1).SSF	574485.292	35098
721989.785	4294316.044	9360	21-Dec-13	ALEX122113 (1).SSF	574486.2891	35099
721989.701	4294315.593	9060	21-Dec-13	ALEX122113 (1).SSF	574487.3359	35100
721989.387	4294315.058	9405	21-Dec-13	ALEX122113 (1).SSF	574488.269	35101
721988.845	4294314.573	9341	21-Dec-13	ALEX122113 (1).SSF	574489.3579	35102
721988.801	4294314.443	9595	21-Dec-13	ALEX122113 (1).SSF	574490.2202	35103
721989.024	4294314.457	9719	21-Dec-13	ALEX122113 (1).SSF	574491.2168	35104
721989.05	4294314.377	10019	21-Dec-13	ALEX122113 (1).SSF	574492.25	35105
721989	4294314.307	10155	21-Dec-13	ALEX122113 (1).SSF	574493.27	35106
721988.965	4294314.233	8478	21-Dec-13	ALEX122113 (1).SSF	574494.2778	35107
721988.864	4294314.048	9529	21-Dec-13	ALEX122113 (1).SSF	574495.2769	35108
721988.525	4294313.594	9522	21-Dec-13	ALEX122113 (1).SSF	574496.3159	35109
721988.188	4294313.036	9370	21-Dec-13	ALEX122113 (1).SSF	574497.25	35110
721987.93	4294312.491	9632	21-Dec-13	ALEX122113 (1).SSF	574498.269	35111
721987.526	4294311.945	10988	21-Dec-13	ALEX122113 (1).SSF	574499.3291	35112
721987.06	4294311.325	9527	21-Dec-13	ALEX122113 (1).SSF	574500.2852	35113
721986.557	4294310.737	9941	21-Dec-13	ALEX122113 (1).SSF	574501.3042	35114
721985.971	4294310.302	10285	21-Dec-13	ALEX122113 (1).SSF	574502.2568	35115
721985.434	4294309.733	9561	21-Dec-13	ALEX122113 (1).SSF	574503.335	35116
721985.033	4294309.175	8690	21-Dec-13	ALEX122113 (1).SSF	574504.2271	35117
721984.463	4294308.565	9372	21-Dec-13	ALEX122113 (1).SSF	574505.248	35118
721983.995	4294308.013	10563	21-Dec-13	ALEX122113 (1).SSF	574506.3071	35119
721983.654	4294307.524	10260	21-Dec-13	ALEX122113 (1).SSF	574507.2441	35120
721983.171	4294307.045	9975	21-Dec-13	ALEX122113 (1).SSF	574508.249	35121
721982.733	4294306.574	10113	21-Dec-13	ALEX122113 (1).SSF	574509.2539	35122
721982.41	4294305.995	9638	21-Dec-13	ALEX122113 (1).SSF	574510.231	35123
721981.932	4294305.381	9489	21-Dec-13	ALEX122113 (1).SSF	574511.2402	35124
721981.404	4294304.84	9572	21-Dec-13	ALEX122113 (1).SSF	574512.1938	35125
721980.897	4294304.025	9443	21-Dec-13	ALEX122113 (1).SSF	574513.3149	35126
721980.452	4294303.278	10130	21-Dec-13	ALEX122113 (1).SSF	574514.2969	35127
721979.998	4294302.59	10002	21-Dec-13	ALEX122113 (1).SSF	574515.3398	35128
721979.616	4294302.084	8650	21-Dec-13	ALEX122113 (1).SSF	574516.2729	35129

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721979.091	4294301.457	9782	21-Dec-13	ALEX122113 (1).SSF	574517.2979	35130
721978.668	4294300.801	10275	21-Dec-13	ALEX122113 (1).SSF	574518.2002	35131
721978.287	4294299.893	11298	21-Dec-13	ALEX122113 (1).SSF	574519.3281	35132
721977.851	4294299.215	10774	21-Dec-13	ALEX122113 (1).SSF	574520.2358	35133
721977.22	4294298.544	10433	21-Dec-13	ALEX122113 (1).SSF	574521.335	35134
721976.732	4294297.954	9298	21-Dec-13	ALEX122113 (1).SSF	574522.271	35135
721976.172	4294297.267	10634	21-Dec-13	ALEX122113 (1).SSF	574523.269	35136
721975.679	4294296.683	10398	21-Dec-13	ALEX122113 (1).SSF	574524.1938	35137
721975.15	4294295.922	8389	21-Dec-13	ALEX122113 (1).SSF	574525.332	35138
721974.597	4294295.274	9597	21-Dec-13	ALEX122113 (1).SSF	574526.271	35139
721974.048	4294294.631	8999	21-Dec-13	ALEX122113 (1).SSF	574527.269	35140
721973.68	4294294.064	8490	21-Dec-13	ALEX122113 (1).SSF	574528.2661	35141
721973.171	4294293.286	9022	21-Dec-13	ALEX122113 (1).SSF	574529.3599	35142
721972.76	4294292.608	9215	21-Dec-13	ALEX122113 (1).SSF	574530.2222	35143
721972.339	4294291.896	9533	21-Dec-13	ALEX122113 (1).SSF	574531.3008	35144
721971.979	4294291.302	9343	21-Dec-13	ALEX122113 (1).SSF	574532.1909	35145
721971.498	4294290.351	9416	21-Dec-13	ALEX122113 (1).SSF	574533.2681	35146
721971.017	4294289.582	9884	21-Dec-13	ALEX122113 (1).SSF	574534.2461	35147
721970.444	4294288.977	8711	21-Dec-13	ALEX122113 (1).SSF	574535.25	35148
721970.016	4294288.315	7577	21-Dec-13	ALEX122113 (1).SSF	574536.231	35149
721969.614	4294287.598	8554	21-Dec-13	ALEX122113 (1).SSF	574537.2979	35150
721969.202	4294287.002	6968	21-Dec-13	ALEX122113 (1).SSF	574538.1738	35151
721968.727	4294286.149	7712	21-Dec-13	ALEX122113 (1).SSF	574539.2998	35152
721968.421	4294285.483	7718	21-Dec-13	ALEX122113 (1).SSF	574540.2241	35153
721967.758	4294284.771	7329	21-Dec-13	ALEX122113 (1).SSF	574541.3809	35154
721967.182	4294284.168	6572	21-Dec-13	ALEX122113 (1).SSF	574542.3101	35155
721966.691	4294283.379	6653	21-Dec-13	ALEX122113 (1).SSF	574543.3491	35156
721966.274	4294282.819	6343	21-Dec-13	ALEX122113 (1).SSF	574544.2158	35157
721965.672	4294282.215	5966	21-Dec-13	ALEX122113 (1).SSF	574545.3311	35158
721965.213	4294281.604	6296	21-Dec-13	ALEX122113 (1).SSF	574546.2842	35159
721964.793	4294280.953	6704	21-Dec-13	ALEX122113 (1).SSF	574547.2222	35160
721964.357	4294280.361	6356	21-Dec-13	ALEX122113 (1).SSF	574548.2749	35161
721964.019	4294279.777	6419	21-Dec-13	ALEX122113 (1).SSF	574549.3799	35162
721963.658	4294279.27	6524	21-Dec-13	ALEX122113 (1).SSF	574550.2959	35163
721963.143	4294278.605	6346	21-Dec-13	ALEX122113 (1).SSF	574551.2969	35164
721962.728	4294277.95	7136	21-Dec-13	ALEX122113 (1).SSF	574552.2349	35165
721962.292	4294277.336	6854	21-Dec-13	ALEX122113 (1).SSF	574553.3311	35166
721961.836	4294276.899	7293	21-Dec-13	ALEX122113 (1).SSF	574554.1748	35167
721961.371	4294276.184	7703	21-Dec-13	ALEX122113 (1).SSF	574555.2632	35168
721961.162	4294275.587	7115	21-Dec-13	ALEX122113 (1).SSF	574556.2979	35169
721960.867	4294275.35	6729	21-Dec-13	ALEX122113 (1).SSF	574557.3638	35170
721960.712	4294275.315	8252	21-Dec-13	ALEX122113 (1).SSF	574558.29	35171
721960.684	4294275.276	7973	21-Dec-13	ALEX122113 (1).SSF	574559.3359	35172
721960.728	4294275.214	6613	21-Dec-13	ALEX122113 (1).SSF	574560.2319	35173
721960.707	4294275.202	6005	21-Dec-13	ALEX122113 (1).SSF	574561.3101	35174
721960.617	4294275.243	7276	21-Dec-13	ALEX122113 (1).SSF	574562.2612	35175
721960.381	4294275.319	6529	21-Dec-13	ALEX122113 (1).SSF	574563.3491	35176

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721960.019	4294275.418	7992	21-Dec-13	ALEX122113 (1).SSF	574564.2949	35177
721959.706	4294275.468	6558	21-Dec-13	ALEX122113 (1).SSF	574565.2588	35178
721959.584	4294275.482	6589	21-Dec-13	ALEX122113 (1).SSF	574566.1621	35179
721959.564	4294275.469	7197	21-Dec-13	ALEX122113 (1).SSF	574567.2349	35180
721959.544	4294275.3	6659	21-Dec-13	ALEX122113 (1).SSF	574568.23	35181
721959.606	4294275.231	6735	21-Dec-13	ALEX122113 (1).SSF	574569.3062	35182
721959.667	4294275.24	7113	21-Dec-13	ALEX122113 (1).SSF	574570.2349	35183
721959.712	4294275.249	7448	21-Dec-13	ALEX122113 (1).SSF	574571.3301	35184
721959.681	4294275.375	7322	21-Dec-13	ALEX122113 (1).SSF	574572.1602	35185
721959.559	4294275.754	6420	21-Dec-13	ALEX122113 (1).SSF	574573.291	35186
721959.504	4294275.921	6247	21-Dec-13	ALEX122113 (1).SSF	574574.2451	35187
721959.55	4294276.091	7412	21-Dec-13	ALEX122113 (1).SSF	574575.252	35188
721959.682	4294276.549	7703	21-Dec-13	ALEX122113 (1).SSF	574576.2461	35189
721959.945	4294277.15	7895	21-Dec-13	ALEX122113 (1).SSF	574577.2759	35190
721960.208	4294277.713	7434	21-Dec-13	ALEX122113 (1).SSF	574578.2622	35191
721960.51	4294278.254	6958	21-Dec-13	ALEX122113 (1).SSF	574579.3511	35192
721960.892	4294278.735	8009	21-Dec-13	ALEX122113 (1).SSF	574580.2612	35193
721961.323	4294279.416	6922	21-Dec-13	ALEX122113 (1).SSF	574581.356	35194
721961.624	4294279.924	7400	21-Dec-13	ALEX122113 (1).SSF	574582.293	35195
721962.031	4294280.399	6500	21-Dec-13	ALEX122113 (1).SSF	574583.3091	35196
721962.362	4294280.73	6755	21-Dec-13	ALEX122113 (1).SSF	574584.272	35197
721962.431	4294280.907	7058	21-Dec-13	ALEX122113 (1).SSF	574585.3379	35198
721962.368	4294280.936	6504	21-Dec-13	ALEX122113 (1).SSF	574586.2939	35199
721962.353	4294280.888	7296	21-Dec-13	ALEX122113 (1).SSF	574587.314	35200
721962.41	4294280.871	6324	21-Dec-13	ALEX122113 (1).SSF	574588.2358	35201
721962.452	4294280.814	7491	21-Dec-13	ALEX122113 (1).SSF	574589.3262	35202
721962.48	4294280.765	6432	21-Dec-13	ALEX122113 (1).SSF	574590.2598	35203
721962.499	4294280.744	7338	21-Dec-13	ALEX122113 (1).SSF	574591.2988	35204
721962.671	4294280.836	6604	21-Dec-13	ALEX122113 (1).SSF	574592.2749	35205
721962.987	4294281.256	7321	21-Dec-13	ALEX122113 (1).SSF	574593.311	35206
721963.276	4294281.852	6480	21-Dec-13	ALEX122113 (1).SSF	574594.1582	35207
721963.926	4294282.682	6720	21-Dec-13	ALEX122113 (1).SSF	574595.2939	35208
721964.553	4294283.112	7230	21-Dec-13	ALEX122113 (1).SSF	574596.27	35209
721965.048	4294283.447	6547	21-Dec-13	ALEX122113 (1).SSF	574597.3198	35210
721965.48	4294284.003	5950	21-Dec-13	ALEX122113 (1).SSF	574598.2778	35211
721965.865	4294284.799	6227	21-Dec-13	ALEX122113 (1).SSF	574599.3101	35212
721966.18	4294285.459	7286	21-Dec-13	ALEX122113 (1).SSF	574600.2598	35213
721966.648	4294286.135	6261	21-Dec-13	ALEX122113 (1).SSF	574601.2612	35214
721967.09	4294286.822	5795	21-Dec-13	ALEX122113 (1).SSF	574602.2461	35215
721967.442	4294287.555	6027	21-Dec-13	ALEX122113 (1).SSF	574603.2842	35216
721967.92	4294288.276	6580	21-Dec-13	ALEX122113 (1).SSF	574604.293	35217
721968.306	4294288.792	6565	21-Dec-13	ALEX122113 (1).SSF	574605.2749	35218
721968.422	4294289.164	6561	21-Dec-13	ALEX122113 (1).SSF	574606.1221	35219
721968.914	4294289.994	7340	21-Dec-13	ALEX122113 (1).SSF	574607.2959	35220
721969.422	4294290.694	6875	21-Dec-13	ALEX122113 (1).SSF	574608.1768	35221
721969.842	4294291.333	7748	21-Dec-13	ALEX122113 (1).SSF	574609.2021	35222
721970.461	4294292.152	8807	21-Dec-13	ALEX122113 (1).SSF	574610.3091	35223

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721971.065	4294293.014	9071	21-Dec-13	ALEX122113 (1).SSF	574611.291	35224
721971.506	4294293.772	9948	21-Dec-13	ALEX122113 (1).SSF	574612.2798	35225
721971.885	4294294.302	10797	21-Dec-13	ALEX122113 (1).SSF	574613.3418	35226
721972.091	4294294.643	10109	21-Dec-13	ALEX122113 (1).SSF	574614.1738	35227
721972.552	4294295.271	9337	21-Dec-13	ALEX122113 (1).SSF	574615.3218	35228
721973.019	4294295.954	9594	21-Dec-13	ALEX122113 (1).SSF	574616.2949	35229
721973.511	4294296.765	9148	21-Dec-13	ALEX122113 (1).SSF	574617.3569	35230
721973.91	4294297.499	9247	21-Dec-13	ALEX122113 (1).SSF	574618.3091	35231
721974.431	4294298.175	9271	21-Dec-13	ALEX122113 (1).SSF	574619.3872	35232
721974.812	4294298.582	9697	21-Dec-13	ALEX122113 (1).SSF	574620.3198	35233
721975.126	4294298.979	9264	21-Dec-13	ALEX122113 (1).SSF	574621.3052	35234
721975.5	4294299.448	9546	21-Dec-13	ALEX122113 (1).SSF	574622.1768	35235
721976.037	4294300.349	9676	21-Dec-13	ALEX122113 (1).SSF	574623.2852	35236
721976.534	4294301.054	10609	21-Dec-13	ALEX122113 (1).SSF	574624.1509	35237
721977.073	4294301.793	10872	21-Dec-13	ALEX122113 (1).SSF	574625.207	35238
721977.354	4294302.162	10938	21-Dec-13	ALEX122113 (1).SSF	574626.3599	35239
721977.392	4294302.1	9634	21-Dec-13	ALEX122113 (1).SSF	574627.3262	35240
721977.375	4294301.87	11168	21-Dec-13	ALEX122113 (1).SSF	574628.3242	35241
721977.364	4294301.685	9992	21-Dec-13	ALEX122113 (1).SSF	574629.353	35242
721977.316	4294301.653	10748	21-Dec-13	ALEX122113 (1).SSF	574630.2139	35243
721977.25	4294301.87	9767	21-Dec-13	ALEX122113 (1).SSF	574631.1851	35244
721977.604	4294302.513	10271	21-Dec-13	ALEX122113 (1).SSF	574632.3081	35245
721978.05	4294303.158	10188	21-Dec-13	ALEX122113 (1).SSF	574633.3188	35246
721978.38	4294303.628	9477	21-Dec-13	ALEX122113 (1).SSF	574634.3032	35247
721978.684	4294304.006	8849	21-Dec-13	ALEX122113 (1).SSF	574635.27	35248
721979.09	4294304.477	9382	21-Dec-13	ALEX122113 (1).SSF	574636.2891	35249
721979.728	4294305.042	9665	21-Dec-13	ALEX122113 (1).SSF	574637.2832	35250
721980.302	4294305.652	10006	21-Dec-13	ALEX122113 (1).SSF	574638.3208	35251
721980.668	4294306.06	10781	21-Dec-13	ALEX122113 (1).SSF	574639.3208	35252
721981.1	4294306.473	9865	21-Dec-13	ALEX122113 (1).SSF	574640.3062	35253
721981.536	4294307.112	10656	21-Dec-13	ALEX122113 (1).SSF	574641.3091	35254
721982.075	4294307.791	10734	21-Dec-13	ALEX122113 (1).SSF	574642.3218	35255
721982.532	4294308.332	10783	21-Dec-13	ALEX122113 (1).SSF	574643.377	35256
721982.842	4294308.729	10256	21-Dec-13	ALEX122113 (1).SSF	574644.397	35257
721983.185	4294309.16	8984	21-Dec-13	ALEX122113 (1).SSF	574645.3291	35258
721983.552	4294309.714	9506	21-Dec-13	ALEX122113 (1).SSF	574646.2661	35259
721984.028	4294310.486	10116	21-Dec-13	ALEX122113 (1).SSF	574647.3442	35260
721984.365	4294311.122	9909	21-Dec-13	ALEX122113 (1).SSF	574648.1968	35261
721984.761	4294311.743	9557	21-Dec-13	ALEX122113 (1).SSF	574649.355	35262
721985.018	4294312.111	9349	21-Dec-13	ALEX122113 (1).SSF	574650.21	35263
721985.402	4294312.586	10347	21-Dec-13	ALEX122113 (1).SSF	574651.3091	35264
721985.887	4294313.097	10297	21-Dec-13	ALEX122113 (1).SSF	574652.248	35265
721986.367	4294313.72	10494	21-Dec-13	ALEX122113 (1).SSF	574653.2402	35266
721986.914	4294314.46	10903	21-Dec-13	ALEX122113 (1).SSF	574654.271	35267
721987.393	4294315.055	9296	21-Dec-13	ALEX122113 (1).SSF	574655.1831	35268
721987.858	4294315.558	10004	21-Dec-13	ALEX122113 (1).SSF	574656.146	35269
721988.21	4294316.009	8951	21-Dec-13	ALEX122113 (1).SSF	574657.3101	35270

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721988.397	4294316.345	9557	21-Dec-13	ALEX122113 (1).SSF	574658.2041	35271
721988.843	4294316.949	10009	21-Dec-13	ALEX122113 (1).SSF	574659.2842	35272
721989.282	4294317.563	9702	21-Dec-13	ALEX122113 (1).SSF	574660.0552	35273
721989.871	4294318.318	10345	21-Dec-13	ALEX122113 (1).SSF	574661.2798	35274
721990.279	4294318.709	10086	21-Dec-13	ALEX122113 (1).SSF	574662.1631	35275
721990.715	4294319.427	8941	21-Dec-13	ALEX122113 (1).SSF	574663.27	35276
721991.125	4294319.972	10305	21-Dec-13	ALEX122113 (1).SSF	574664.1841	35277
721991.683	4294320.527	9806	21-Dec-13	ALEX122113 (1).SSF	574665.3101	35278
721992.082	4294321.111	10701	21-Dec-13	ALEX122113 (1).SSF	574666.123	35279
721992.814	4294321.887	8705	21-Dec-13	ALEX122113 (1).SSF	574667.3701	35280
721993.211	4294322.188	10066	21-Dec-13	ALEX122113 (1).SSF	574668.188	35281
721993.316	4294322.323	9866	21-Dec-13	ALEX122113 (1).SSF	574669.2388	35282
721993.381	4294322.233	9036	21-Dec-13	ALEX122113 (1).SSF	574670.105	35283
721993.384	4294322.09	9819	21-Dec-13	ALEX122113 (1).SSF	574671.2529	35284
721993.204	4294322.133	9054	21-Dec-13	ALEX122113 (1).SSF	574672.1211	35285
721992.872	4294322.548	10093	21-Dec-13	ALEX122113 (1).SSF	574673.311	35286
721992.702	4294322.814	8613	21-Dec-13	ALEX122113 (1).SSF	574674.0718	35287
721992.623	4294322.928	8843	21-Dec-13	ALEX122113 (1).SSF	574675.1489	35288
721992.504	4294322.977	9740	21-Dec-13	ALEX122113 (1).SSF	574676.2192	35289
721992.352	4294323.002	10115	21-Dec-13	ALEX122113 (1).SSF	574677.3042	35290
721992.292	4294322.946	9608	21-Dec-13	ALEX122113 (1).SSF	574678.1382	35291
721992.251	4294322.776	9842	21-Dec-13	ALEX122113 (1).SSF	574679.251	35292
721992.12	4294322.687	9810	21-Dec-13	ALEX122113 (1).SSF	574680.2568	35293
721992.073	4294322.598	9682	21-Dec-13	ALEX122113 (1).SSF	574681.3818	35294
721992.06	4294322.535	8960	21-Dec-13	ALEX122113 (1).SSF	574682.1992	35295
721992.079	4294322.448	9800	21-Dec-13	ALEX122113 (1).SSF	574683.3198	35296
721992.107	4294322.39	8960	21-Dec-13	ALEX122113 (1).SSF	574684.1821	35297
721992.096	4294322.355	8510	21-Dec-13	ALEX122113 (1).SSF	574685.291	35298
721992.084	4294322.336	8217	21-Dec-13	ALEX122113 (1).SSF	574686.2441	35299
721992.053	4294322.359	8474	21-Dec-13	ALEX122113 (1).SSF	574687.2788	35300
721992.024	4294322.431	9078	21-Dec-13	ALEX122113 (1).SSF	574688.1372	35301
721991.158	4294321.348	9882	21-Dec-13	ALEX122113 (1).SSF	574691.1611	35304
721990.731	4294320.757	10300	21-Dec-13	ALEX122113 (1).SSF	574692.0151	35305
721990.225	4294320.276	8755	21-Dec-13	ALEX122113 (1).SSF	574693.125	35306
721989.801	4294319.702	9328	21-Dec-13	ALEX122113 (1).SSF	574694.1362	35307
721989.256	4294319.018	10162	21-Dec-13	ALEX122113 (1).SSF	574695.2749	35308
721988.852	4294318.543	9290	21-Dec-13	ALEX122113 (1).SSF	574696.1768	35309
721988.46	4294317.997	10092	21-Dec-13	ALEX122113 (1).SSF	574697.3311	35310
721988.049	4294317.559	10053	21-Dec-13	ALEX122113 (1).SSF	574698.2861	35311
721987.613	4294317.006	8693	21-Dec-13	ALEX122113 (1).SSF	574699.1738	35312
721987.237	4294316.478	9703	21-Dec-13	ALEX122113 (1).SSF	574700.1592	35313
721986.85	4294316.005	9236	21-Dec-13	ALEX122113 (1).SSF	574701.3101	35314
721986.49	4294315.552	9359	21-Dec-13	ALEX122113 (1).SSF	574702.2422	35315
721985.912	4294314.884	8279	21-Dec-13	ALEX122113 (1).SSF	574703.3101	35316
721985.439	4294314.215	9720	21-Dec-13	ALEX122113 (1).SSF	574704.1821	35317
721985.001	4294313.51	9780	21-Dec-13	ALEX122113 (1).SSF	574705.2402	35318
721984.677	4294313.013	9315	21-Dec-13	ALEX122113 (1).SSF	574706.1479	35319

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721984.321	4294312.397	9408	21-Dec-13	ALEX122113 (1).SSF	574707.2441	35320
721983.865	4294311.817	9972	21-Dec-13	ALEX122113 (1).SSF	574708.1162	35321
721983.258	4294310.99	10203	21-Dec-13	ALEX122113 (1).SSF	574709.249	35322
721982.972	4294310.515	9840	21-Dec-13	ALEX122113 (1).SSF	574710.106	35323
721982.691	4294310.062	8310	21-Dec-13	ALEX122113 (1).SSF	574711.2178	35324
721982.496	4294309.557	8655	21-Dec-13	ALEX122113 (1).SSF	574712.082	35325
721981.99	4294308.724	9932	21-Dec-13	ALEX122113 (1).SSF	574713.231	35326
721981.547	4294308.052	10643	21-Dec-13	ALEX122113 (1).SSF	574714.251	35327
721981.225	4294307.626	10370	21-Dec-13	ALEX122113 (1).SSF	574715.189	35328
721980.929	4294307.257	9072	21-Dec-13	ALEX122113 (1).SSF	574716.1001	35329
721980.512	4294306.578	10218	21-Dec-13	ALEX122113 (1).SSF	574717.2451	35330
721980.05	4294306.006	9904	21-Dec-13	ALEX122113 (1).SSF	574718.0952	35331
721979.47	4294305.305	9406	21-Dec-13	ALEX122113 (1).SSF	574719.2378	35332
721979.122	4294304.814	9821	21-Dec-13	ALEX122113 (1).SSF	574720.1709	35333
721978.657	4294304.142	10045	21-Dec-13	ALEX122113 (1).SSF	574721.2559	35334
721978.261	4294303.454	9381	21-Dec-13	ALEX122113 (1).SSF	574722.187	35335
721977.792	4294302.799	8495	21-Dec-13	ALEX122113 (1).SSF	574723.2378	35336
721977.431	4294302.324	9293	21-Dec-13	ALEX122113 (1).SSF	574724.269	35337
721977.193	4294301.893	10063	21-Dec-13	ALEX122113 (1).SSF	574725.2871	35338
721976.873	4294301.482	9146	21-Dec-13	ALEX122113 (1).SSF	574726.1318	35339
721976.164	4294300.605	9936	21-Dec-13	ALEX122113 (1).SSF	574727.2778	35340
721975.647	4294299.935	8904	21-Dec-13	ALEX122113 (1).SSF	574728.1821	35341
721975.231	4294299.391	9516	21-Dec-13	ALEX122113 (1).SSF	574729.3208	35342
721974.981	4294299.045	9099	21-Dec-13	ALEX122113 (1).SSF	574730.313	35343
721974.645	4294298.648	8934	21-Dec-13	ALEX122113 (1).SSF	574731.3032	35344
721974.249	4294298.165	8833	21-Dec-13	ALEX122113 (1).SSF	574732.2402	35345
721973.696	4294297.51	8808	21-Dec-13	ALEX122113 (1).SSF	574733.3101	35346
721973.248	4294296.832	10092	21-Dec-13	ALEX122113 (1).SSF	574734.209	35347
721972.772	4294296.052	9543	21-Dec-13	ALEX122113 (1).SSF	574735.29	35348
721972.433	4294295.568	7905	21-Dec-13	ALEX122113 (1).SSF	574736.2119	35349
721972.047	4294294.997	8726	21-Dec-13	ALEX122113 (1).SSF	574737.3198	35350
721971.554	4294294.4	8601	21-Dec-13	ALEX122113 (1).SSF	574738.2368	35351
721970.995	4294293.588	8780	21-Dec-13	ALEX122113 (1).SSF	574739.2578	35352
721970.596	4294292.916	9335	21-Dec-13	ALEX122113 (1).SSF	574740.085	35353
721970.122	4294292.33	9263	21-Dec-13	ALEX122113 (1).SSF	574741.165	35354
721969.756	4294291.901	9366	21-Dec-13	ALEX122113 (1).SSF	574742.1729	35355
721969.302	4294291.26	9601	21-Dec-13	ALEX122113 (1).SSF	574743.2539	35356
721968.902	4294290.542	9180	21-Dec-13	ALEX122113 (1).SSF	574744.1851	35357
721968.401	4294289.808	8992	21-Dec-13	ALEX122113 (1).SSF	574745.2861	35358
721968.091	4294289.464	9388	21-Dec-13	ALEX122113 (1).SSF	574746.1201	35359
721967.909	4294289.123	8767	21-Dec-13	ALEX122113 (1).SSF	574747.3169	35360
721967.766	4294288.892	7291	21-Dec-13	ALEX122113 (1).SSF	574748.1279	35361
721967.456	4294288.619	7072	21-Dec-13	ALEX122113 (1).SSF	574749.1948	35362
721967.09	4294288.372	7528	21-Dec-13	ALEX122113 (1).SSF	574750.2871	35363
721966.931	4294288.093	7522	21-Dec-13	ALEX122113 (1).SSF	574751.2988	35364
721966.777	4294287.492	7010	21-Dec-13	ALEX122113 (1).SSF	574752.2222	35365
721966.254	4294286.653	7992	21-Dec-13	ALEX122113 (1).SSF	574753.3232	35366

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721965.801	4294286.095	6918	21-Dec-13	ALEX122113 (1).SSF	574754.1621	35367
721965.299	4294285.331	6679	21-Dec-13	ALEX122113 (1).SSF	574755.2749	35368
721964.835	4294284.647	6579	21-Dec-13	ALEX122113 (1).SSF	574756.2271	35369
721964.328	4294283.949	6357	21-Dec-13	ALEX122113 (1).SSF	574757.2861	35370
721964.024	4294283.476	5879	21-Dec-13	ALEX122113 (1).SSF	574758.0889	35371
721963.491	4294282.741	6539	21-Dec-13	ALEX122113 (1).SSF	574759.293	35372
721963.109	4294282.228	6345	21-Dec-13	ALEX122113 (1).SSF	574760.0972	35373
721962.702	4294281.612	6296	21-Dec-13	ALEX122113 (1).SSF	574761.2192	35374
721962.386	4294281.129	5736	21-Dec-13	ALEX122113 (1).SSF	574762.1318	35375
721961.958	4294280.468	6981	21-Dec-13	ALEX122113 (1).SSF	574763.2891	35376
721961.585	4294279.914	6605	21-Dec-13	ALEX122113 (1).SSF	574764.2339	35377
721961.105	4294279.346	6151	21-Dec-13	ALEX122113 (1).SSF	574765.2588	35378
721960.691	4294278.8	6697	21-Dec-13	ALEX122113 (1).SSF	574766.1948	35379
721960.358	4294278.109	6984	21-Dec-13	ALEX122113 (1).SSF	574767.2588	35380
721960.094	4294277.616	6786	21-Dec-13	ALEX122113 (1).SSF	574768.1919	35381
721959.83	4294277.207	7216	21-Dec-13	ALEX122113 (1).SSF	574769.1812	35382
721959.639	4294276.633	7024	21-Dec-13	ALEX122113 (1).SSF	574770.2139	35383
721959.347	4294276.113	7456	21-Dec-13	ALEX122113 (1).SSF	574771.1582	35384
721958.997	4294275.903	6574	21-Dec-13	ALEX122113 (1).SSF	574772.084	35385
721958.796	4294275.957	6185	21-Dec-13	ALEX122113 (1).SSF	574773.27	35386
721958.768	4294275.993	7426	21-Dec-13	ALEX122113 (1).SSF	574774.1152	35387
721958.702	4294276.015	6926	21-Dec-13	ALEX122113 (1).SSF	574775.1191	35388
721958.661	4294276.035	7941	21-Dec-13	ALEX122113 (1).SSF	574775.8872	35389
721958.673	4294276.046	7325	21-Dec-13	ALEX122113 (1).SSF	574777.0918	35390
721958.714	4294276.052	6601	21-Dec-13	ALEX122113 (1).SSF	574778.041	35391
721958.754	4294276.057	7230	21-Dec-13	ALEX122113 (1).SSF	574779.0908	35392
721958.786	4294276.066	7777	21-Dec-13	ALEX122113 (1).SSF	574780.1279	35393
721958.809	4294276.063	7644	21-Dec-13	ALEX122113 (1).SSF	574781.1992	35394
721958.818	4294276.051	7041	21-Dec-13	ALEX122113 (1).SSF	574782.0591	35395
721958.898	4294276.004	7370	21-Dec-13	ALEX122113 (1).SSF	574783.269	35396
721958.93	4294275.981	6912	21-Dec-13	ALEX122113 (1).SSF	574784.1582	35397
721958.939	4294275.972	6888	21-Dec-13	ALEX122113 (1).SSF	574785.2622	35398
721958.958	4294276.007	6792	21-Dec-13	ALEX122113 (1).SSF	574786.2891	35399
721958.854	4294276.042	7158	21-Dec-13	ALEX122113 (1).SSF	574787.2842	35400
721958.711	4294276.026	8059	21-Dec-13	ALEX122113 (1).SSF	574788.272	35401
721958.684	4294275.961	7624	21-Dec-13	ALEX122113 (1).SSF	574789.3721	35402
721958.627	4294275.932	6976	21-Dec-13	ALEX122113 (1).SSF	574790.2798	35403
721958.459	4294275.971	7834	21-Dec-13	ALEX122113 (1).SSF	574791.311	35404
721958.28	4294275.985	8528	21-Dec-13	ALEX122113 (1).SSF	574792.1279	35405
721957.951	4294276.059	7232	21-Dec-13	ALEX122113 (1).SSF	574793.314	35406
721957.942	4294276.155	7148	21-Dec-13	ALEX122113 (1).SSF	574794.1299	35407
721957.894	4294276.283	7337	21-Dec-13	ALEX122113 (1).SSF	574795.2842	35408
721957.656	4294276.73	7174	21-Dec-13	ALEX122113 (1).SSF	574796.2969	35409
721957.778	4294277	7103	21-Dec-13	ALEX122113 (1).SSF	574797.2671	35410
721957.968	4294276.934	7326	21-Dec-13	ALEX122113 (1).SSF	574798.2539	35411
721957.963	4294276.858	6091	21-Dec-13	ALEX122113 (1).SSF	574799.2661	35412
721957.945	4294276.844	6892	21-Dec-13	ALEX122113 (1).SSF	574800.167	35413

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721957.928	4294276.873	6493	21-Dec-13	ALEX122113 (1).SSF	574801.1812	35414
721957.931	4294276.962	7023	21-Dec-13	ALEX122113 (1).SSF	574802.2241	35415
721958.009	4294277.252	7515	21-Dec-13	ALEX122113 (1).SSF	574803.2441	35416
721958.242	4294277.736	7188	21-Dec-13	ALEX122113 (1).SSF	574804.145	35417
721958.637	4294278.491	6357	21-Dec-13	ALEX122113 (1).SSF	574805.2729	35418
721958.809	4294279.021	7559	21-Dec-13	ALEX122113 (1).SSF	574806.0928	35419
721959.254	4294279.822	7470	21-Dec-13	ALEX122113 (1).SSF	574807.3711	35420
721959.508	4294280.321	7237	21-Dec-13	ALEX122113 (1).SSF	574808.0908	35421
721959.822	4294280.83	7959	21-Dec-13	ALEX122113 (1).SSF	574809.1191	35422
721960.257	4294281.425	7059	21-Dec-13	ALEX122113 (1).SSF	574810.2319	35423
721960.655	4294282.111	6805	21-Dec-13	ALEX122113 (1).SSF	574811.2139	35424
721961.035	4294282.709	6762	21-Dec-13	ALEX122113 (1).SSF	574812.1582	35425
721961.573	4294283.282	5360	21-Dec-13	ALEX122113 (1).SSF	574813.2051	35426
721962.069	4294284.06	5722	21-Dec-13	ALEX122113 (1).SSF	574814.272	35427
721962.529	4294284.744	5949	21-Dec-13	ALEX122113 (1).SSF	574815.3179	35428
721962.914	4294285.262	5978	21-Dec-13	ALEX122113 (1).SSF	574816.228	35429
721963.357	4294285.952	6427	21-Dec-13	ALEX122113 (1).SSF	574817.2271	35430
721963.865	4294286.606	6736	21-Dec-13	ALEX122113 (1).SSF	574818.1548	35431
721964.371	4294287.163	6096	21-Dec-13	ALEX122113 (1).SSF	574819.1538	35432
721964.836	4294287.796	6744	21-Dec-13	ALEX122113 (1).SSF	574820.2881	35433
721965.33	4294288.322	6876	21-Dec-13	ALEX122113 (1).SSF	574821.2559	35434
721965.754	4294288.75	7539	21-Dec-13	ALEX122113 (1).SSF	574822.165	35435
721965.993	4294289.199	7344	21-Dec-13	ALEX122113 (1).SSF	574823.3062	35436
721966.235	4294289.588	8436	21-Dec-13	ALEX122113 (1).SSF	574824.103	35437
721966.605	4294290.43	8889	21-Dec-13	ALEX122113 (1).SSF	574825.2729	35438
721966.928	4294290.973	7892	21-Dec-13	ALEX122113 (1).SSF	574826.127	35439
721967.483	4294291.541	8963	21-Dec-13	ALEX122113 (1).SSF	574827.2021	35440
721967.84	4294292.097	9260	21-Dec-13	ALEX122113 (1).SSF	574828.1489	35441
721968.432	4294293.106	7895	21-Dec-13	ALEX122113 (1).SSF	574829.2979	35442
721968.905	4294293.778	8813	21-Dec-13	ALEX122113 (1).SSF	574830.0962	35443
721969.278	4294294.319	10213	21-Dec-13	ALEX122113 (1).SSF	574831.1699	35444
721969.697	4294294.922	8643	21-Dec-13	ALEX122113 (1).SSF	574832.085	35445
721970.325	4294295.97	9930	21-Dec-13	ALEX122113 (1).SSF	574833.3242	35446
721970.713	4294296.54	9442	21-Dec-13	ALEX122113 (1).SSF	574834.0942	35447
721971.315	4294297.273	9800	21-Dec-13	ALEX122113 (1).SSF	574835.3091	35448
721971.624	4294297.814	10700	21-Dec-13	ALEX122113 (1).SSF	574836.0811	35449
721972.143	4294298.774	10325	21-Dec-13	ALEX122113 (1).SSF	574837.2461	35450
721972.59	4294299.466	8941	21-Dec-13	ALEX122113 (1).SSF	574838.2388	35451
721972.931	4294300.035	9075	21-Dec-13	ALEX122113 (1).SSF	574839.2178	35452
721973.31	4294300.655	10008	21-Dec-13	ALEX122113 (1).SSF	574840.1099	35453
721973.812	4294301.592	9762	21-Dec-13	ALEX122113 (1).SSF	574841.2788	35454
721974.126	4294302.067	10540	21-Dec-13	ALEX122113 (1).SSF	574842.0771	35455
721974.774	4294302.648	10135	21-Dec-13	ALEX122113 (1).SSF	574843.3008	35456
721975.161	4294303.188	10573	21-Dec-13	ALEX122113 (1).SSF	574844.1162	35457
721975.716	4294304.108	10773	21-Dec-13	ALEX122113 (1).SSF	574845.269	35458
721976.082	4294304.654	10733	21-Dec-13	ALEX122113 (1).SSF	574846.0918	35459
721976.421	4294305.215	9523	21-Dec-13	ALEX122113 (1).SSF	574847.311	35460

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721976.759	4294305.667	10121	21-Dec-13	ALEX122113 (1).SSF	574848.0601	35461
721977.377	4294306.565	9370	21-Dec-13	ALEX122113 (1).SSF	574849.2422	35462
721977.764	4294307.109	10262	21-Dec-13	ALEX122113 (1).SSF	574850.1602	35463
721978.185	4294307.536	10725	21-Dec-13	ALEX122113 (1).SSF	574851.2842	35464
721978.418	4294307.849	11051	21-Dec-13	ALEX122113 (1).SSF	574852.1099	35465
721978.825	4294308.391	10203	21-Dec-13	ALEX122113 (1).SSF	574853.1992	35466
721979.259	4294308.915	9810	21-Dec-13	ALEX122113 (1).SSF	574854.1118	35467
721979.85	4294309.637	9322	21-Dec-13	ALEX122113 (1).SSF	574855.1729	35468
721980.301	4294310.301	10220	21-Dec-13	ALEX122113 (1).SSF	574856.0229	35469
721980.848	4294310.984	10085	21-Dec-13	ALEX122113 (1).SSF	574857.3291	35470
721981.153	4294311.287	9811	21-Dec-13	ALEX122113 (1).SSF	574858.0879	35471
721981.554	4294311.809	10492	21-Dec-13	ALEX122113 (1).SSF	574859.3398	35472
721981.963	4294312.287	10723	21-Dec-13	ALEX122113 (1).SSF	574860.1519	35473
721982.59	4294313.124	10931	21-Dec-13	ALEX122113 (1).SSF	574861.2939	35474
721982.995	4294313.635	11582	21-Dec-13	ALEX122113 (1).SSF	574862.0742	35475
721983.44	4294314.063	11025	21-Dec-13	ALEX122113 (1).SSF	574863.2808	35476
721983.727	4294314.393	9956	21-Dec-13	ALEX122113 (1).SSF	574864.1362	35477
721984.29	4294314.913	9149	21-Dec-13	ALEX122113 (1).SSF	574865.0879	35478
721984.954	4294315.698	10297	21-Dec-13	ALEX122113 (1).SSF	574866.1162	35479
721985.424	4294316.504	10104	21-Dec-13	ALEX122113 (1).SSF	574867.2119	35480
721985.812	4294317.075	10176	21-Dec-13	ALEX122113 (1).SSF	574868.103	35481
721986.147	4294317.676	11424	21-Dec-13	ALEX122113 (1).SSF	574869.1572	35482
721986.549	4294318.24	9756	21-Dec-13	ALEX122113 (1).SSF	574870.0908	35483
721987.046	4294319.032	9999	21-Dec-13	ALEX122113 (1).SSF	574871.082	35484
721987.521	4294319.74	8919	21-Dec-13	ALEX122113 (1).SSF	574872.0342	35485
721988.127	4294320.3	8380	21-Dec-13	ALEX122113 (1).SSF	574873.1968	35486
721988.554	4294320.784	9115	21-Dec-13	ALEX122113 (1).SSF	574874.0698	35487
721989.203	4294321.687	11428	21-Dec-13	ALEX122113 (1).SSF	574875.2642	35488
721989.64	4294322.25	9937	21-Dec-13	ALEX122113 (1).SSF	574876.0781	35489
721990.003	4294322.755	10074	21-Dec-13	ALEX122113 (1).SSF	574877.1499	35490
721990.429	4294323.112	8098	21-Dec-13	ALEX122113 (1).SSF	574878.0439	35491
721990.881	4294323.832	8534	21-Dec-13	ALEX122113 (1).SSF	574879.2158	35492
721991.349	4294324.44	9273	21-Dec-13	ALEX122113 (1).SSF	574880.1641	35493
721991.579	4294324.739	9908	21-Dec-13	ALEX122113 (1).SSF	574881.1851	35494
721991.445	4294324.81	10157	21-Dec-13	ALEX122113 (1).SSF	574882.252	35495
721991.215	4294324.863	10279	21-Dec-13	ALEX122113 (1).SSF	574883.3149	35496
721990.977	4294325.049	10039	21-Dec-13	ALEX122113 (1).SSF	574884.0859	35497
721990.491	4294325.339	10310	21-Dec-13	ALEX122113 (1).SSF	574885.2969	35498
721990.189	4294325.256	9147	21-Dec-13	ALEX122113 (1).SSF	574886.1519	35499
721990.125	4294325.003	8467	21-Dec-13	ALEX122113 (1).SSF	574887.2202	35500
721990.176	4294324.929	9466	21-Dec-13	ALEX122113 (1).SSF	574888.1821	35501
721990.196	4294324.908	8846	21-Dec-13	ALEX122113 (1).SSF	574889.3149	35502
721990.189	4294324.87	9711	21-Dec-13	ALEX122113 (1).SSF	574890.1021	35503
721990.124	4294324.897	10138	21-Dec-13	ALEX122113 (1).SSF	574891.0952	35504
721990.07	4294324.983	9794	21-Dec-13	ALEX122113 (1).SSF	574892.1372	35505
721990.043	4294325.076	10518	21-Dec-13	ALEX122113 (1).SSF	574893.1841	35506
721989.952	4294325.154	9559	21-Dec-13	ALEX122113 (1).SSF	574894.126	35507

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721989.74	4294324.916	10069	21-Dec-13	ALEX122113 (1).SSF	574895.2422	35508
721989.457	4294324.455	10647	21-Dec-13	ALEX122113 (1).SSF	574896.1152	35509
721989.068	4294323.875	10072	21-Dec-13	ALEX122113 (1).SSF	574897.1328	35510
721988.692	4294323.248	9268	21-Dec-13	ALEX122113 (1).SSF	574898.1328	35511
721988.239	4294322.641	8287	21-Dec-13	ALEX122113 (1).SSF	574899.2661	35512
721987.859	4294322.216	8821	21-Dec-13	ALEX122113 (1).SSF	574900.1411	35513
721987.439	4294321.579	9465	21-Dec-13	ALEX122113 (1).SSF	574901.1172	35514
721987.071	4294320.989	9716	21-Dec-13	ALEX122113 (1).SSF	574902.0332	35515
721986.548	4294320.223	9569	21-Dec-13	ALEX122113 (1).SSF	574903.3042	35516
721986.206	4294319.611	9982	21-Dec-13	ALEX122113 (1).SSF	574904.124	35517
721985.642	4294318.89	9695	21-Dec-13	ALEX122113 (1).SSF	574905.1919	35518
721985.279	4294318.486	9563	21-Dec-13	ALEX122113 (1).SSF	574905.9722	35519
721984.999	4294317.751	9651	21-Dec-13	ALEX122113 (1).SSF	574907.1602	35520
721984.649	4294317.112	10782	21-Dec-13	ALEX122113 (1).SSF	574908.0381	35521
721984.109	4294316.409	9985	21-Dec-13	ALEX122113 (1).SSF	574909.0791	35522
721983.741	4294315.9	9816	21-Dec-13	ALEX122113 (1).SSF	574910.0942	35523
721983.242	4294315.302	10464	21-Dec-13	ALEX122113 (1).SSF	574911.1582	35524
721982.763	4294314.592	10626	21-Dec-13	ALEX122113 (1).SSF	574912.085	35525
721982.237	4294313.857	10936	21-Dec-13	ALEX122113 (1).SSF	574913.249	35526
721981.898	4294313.386	9724	21-Dec-13	ALEX122113 (1).SSF	574914.209	35527
721981.539	4294312.7	10411	21-Dec-13	ALEX122113 (1).SSF	574915.2559	35528
721981.098	4294312.045	9442	21-Dec-13	ALEX122113 (1).SSF	574916.1758	35529
721980.531	4294311.397	10550	21-Dec-13	ALEX122113 (1).SSF	574917.3081	35530
721980.17	4294310.937	10347	21-Dec-13	ALEX122113 (1).SSF	574918.125	35531
721979.649	4294310.103	10357	21-Dec-13	ALEX122113 (1).SSF	574919.2041	35532
721979.159	4294309.347	10089	21-Dec-13	ALEX122113 (1).SSF	574920.1328	35533
721978.619	4294308.873	9122	21-Dec-13	ALEX122113 (1).SSF	574921.2139	35534
721978.261	4294308.576	9240	21-Dec-13	ALEX122113 (1).SSF	574922.1338	35535
721977.934	4294307.944	9660	21-Dec-13	ALEX122113 (1).SSF	574923.3052	35536
721977.563	4294307.287	10335	21-Dec-13	ALEX122113 (1).SSF	574924.1821	35537
721977.042	4294306.455	9723	21-Dec-13	ALEX122113 (1).SSF	574925.1919	35538
721976.57	4294305.73	9661	21-Dec-13	ALEX122113 (1).SSF	574926.084	35539
721976.094	4294305.051	10275	21-Dec-13	ALEX122113 (1).SSF	574927.147	35540
721975.698	4294304.591	11688	21-Dec-13	ALEX122113 (1).SSF	574928.189	35541
721975.227	4294304.101	10272	21-Dec-13	ALEX122113 (1).SSF	574929.3071	35542
721974.899	4294303.625	10638	21-Dec-13	ALEX122113 (1).SSF	574930.0898	35543
721974.323	4294302.864	10249	21-Dec-13	ALEX122113 (1).SSF	574931.082	35544
721973.845	4294302.014	10212	21-Dec-13	ALEX122113 (1).SSF	574932.1362	35545
721973.488	4294301.385	10713	21-Dec-13	ALEX122113 (1).SSF	574933.1079	35546
721973.145	4294300.911	10358	21-Dec-13	ALEX122113 (1).SSF	574934.1211	35547
721972.892	4294300.519	10989	21-Dec-13	ALEX122113 (1).SSF	574935.1758	35548
721972.705	4294300.143	11147	21-Dec-13	ALEX122113 (1).SSF	574936.106	35549
721972.17	4294299.42	10106	21-Dec-13	ALEX122113 (1).SSF	574937.2788	35550
721971.548	4294298.864	10476	21-Dec-13	ALEX122113 (1).SSF	574938.105	35551
721970.924	4294298.122	9009	21-Dec-13	ALEX122113 (1).SSF	574939.1782	35552
721970.646	4294297.538	8372	21-Dec-13	ALEX122113 (1).SSF	574940.083	35553
721970.063	4294296.723	9833	21-Dec-13	ALEX122113 (1).SSF	574941.2622	35554

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721969.637	4294295.985	9598	21-Dec-13	ALEX122113 (1).SSF	574942.1519	35555
721969.278	4294295.334	8909	21-Dec-13	ALEX122113 (1).SSF	574943.1831	35556
721968.991	4294294.935	8977	21-Dec-13	ALEX122113 (1).SSF	574944.0889	35557
721968.705	4294294.393	9174	21-Dec-13	ALEX122113 (1).SSF	574945.1699	35558
721968.369	4294293.793	8743	21-Dec-13	ALEX122113 (1).SSF	574946.0908	35559
721967.815	4294292.82	8636	21-Dec-13	ALEX122113 (1).SSF	574947.2988	35560
721967.422	4294292.247	8759	21-Dec-13	ALEX122113 (1).SSF	574948.083	35561
721966.847	4294291.528	9839	21-Dec-13	ALEX122113 (1).SSF	574949.3252	35562
721966.538	4294291.101	8910	21-Dec-13	ALEX122113 (1).SSF	574950.1221	35563
721966.024	4294290.496	8407	21-Dec-13	ALEX122113 (1).SSF	574951.1162	35564
721965.546	4294289.873	8671	21-Dec-13	ALEX122113 (1).SSF	574952.0308	35565
721965.255	4294289.209	7927	21-Dec-13	ALEX122113 (1).SSF	574953.0762	35566
721965.093	4294288.805	8072	21-Dec-13	ALEX122113 (1).SSF	574953.9731	35567
721964.82	4294288.381	6938	21-Dec-13	ALEX122113 (1).SSF	574955.271	35568
721964.467	4294287.995	7344	21-Dec-13	ALEX122113 (1).SSF	574956.1802	35569
721963.885	4294287.194	7926	21-Dec-13	ALEX122113 (1).SSF	574957.2031	35570
721963.327	4294286.454	6811	21-Dec-13	ALEX122113 (1).SSF	574958.1309	35571
721962.773	4294285.717	6322	21-Dec-13	ALEX122113 (1).SSF	574959.2749	35572
721962.514	4294285.199	6980	21-Dec-13	ALEX122113 (1).SSF	574960.0952	35573
721962.083	4294284.449	5465	21-Dec-13	ALEX122113 (1).SSF	574961.0698	35574
721961.565	4294283.637	5751	21-Dec-13	ALEX122113 (1).SSF	574962.0879	35575
721961.083	4294282.998	5898	21-Dec-13	ALEX122113 (1).SSF	574963.2261	35576
721960.727	4294282.577	6010	21-Dec-13	ALEX122113 (1).SSF	574963.9619	35577
721960.219	4294281.624	5953	21-Dec-13	ALEX122113 (1).SSF	574965.1611	35578
721959.915	4294280.948	5802	21-Dec-13	ALEX122113 (1).SSF	574966.103	35579
721959.539	4294280.357	5746	21-Dec-13	ALEX122113 (1).SSF	574967.2671	35580
721959.255	4294279.882	6375	21-Dec-13	ALEX122113 (1).SSF	574968.0889	35581
721958.655	4294279.159	7143	21-Dec-13	ALEX122113 (1).SSF	574969.1528	35582
721958.113	4294278.557	6975	21-Dec-13	ALEX122113 (1).SSF	574970.0972	35583
721957.821	4294277.832	6723	21-Dec-13	ALEX122113 (1).SSF	574971.1802	35584
721957.563	4294277.232	6721	21-Dec-13	ALEX122113 (1).SSF	574972.1758	35585
721957.283	4294276.709	6390	21-Dec-13	ALEX122113 (1).SSF	574973.1719	35586
721957.14	4294276.442	7657	21-Dec-13	ALEX122113 (1).SSF	574974.0151	35587
721957.092	4294276.405	6534	21-Dec-13	ALEX122113 (1).SSF	574975.23	35588
721957.042	4294276.461	7303	21-Dec-13	ALEX122113 (1).SSF	574976.1362	35589
721956.808	4294276.593	7196	21-Dec-13	ALEX122113 (1).SSF	574977.271	35590
721956.664	4294276.657	6749	21-Dec-13	ALEX122113 (1).SSF	574978.043	35591
721956.642	4294276.634	7207	21-Dec-13	ALEX122113 (1).SSF	574979.3091	35592
721956.675	4294276.593	7021	21-Dec-13	ALEX122113 (1).SSF	574980.0391	35593
721956.784	4294276.602	6645	21-Dec-13	ALEX122113 (1).SSF	574981.2261	35594
721956.836	4294276.595	7061	21-Dec-13	ALEX122113 (1).SSF	574981.9888	35595
721956.554	4294276.732	7165	21-Dec-13	ALEX122113 (1).SSF	574983.1641	35596
721956.132	4294276.959	6681	21-Dec-13	ALEX122113 (1).SSF	574983.9941	35597
721955.664	4294277.252	6710	21-Dec-13	ALEX122113 (1).SSF	574985.0962	35598
721955.632	4294277.332	6717	21-Dec-13	ALEX122113 (1).SSF	574986.0869	35599
721955.556	4294277.427	7349	21-Dec-13	ALEX122113 (1).SSF	574987.2412	35600
721955.483	4294277.66	7267	21-Dec-13	ALEX122113 (1).SSF	574988.001	35601

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721955.449	4294277.926	7066	21-Dec-13	ALEX122113 (1).SSF	574989.2271	35602
721955.43	4294277.997	7226	21-Dec-13	ALEX122113 (1).SSF	574990.0889	35603
721955.403	4294278.409	7296	21-Dec-13	ALEX122113 (1).SSF	574991.1279	35604
721955.499	4294278.884	6624	21-Dec-13	ALEX122113 (1).SSF	574992.0791	35605
721955.933	4294279.301	7236	21-Dec-13	ALEX122113 (1).SSF	574993.1089	35606
721956.357	4294279.854	6249	21-Dec-13	ALEX122113 (1).SSF	574994.0889	35607
721956.869	4294280.551	6482	21-Dec-13	ALEX122113 (1).SSF	574995.082	35608
721957.35	4294281.214	7350	21-Dec-13	ALEX122113 (1).SSF	574996.0581	35609
721957.638	4294281.751	7087	21-Dec-13	ALEX122113 (1).SSF	574997.1719	35610
721957.936	4294282.261	6752	21-Dec-13	ALEX122113 (1).SSF	574998.127	35611
721958.41	4294283.086	6068	21-Dec-13	ALEX122113 (1).SSF	574999.2881	35612
721958.736	4294283.528	5755	21-Dec-13	ALEX122113 (1).SSF	574999.9639	35613
721959.3	4294284.01	5780	21-Dec-13	ALEX122113 (1).SSF	575001.0308	35614
721959.614	4294284.654	5726	21-Dec-13	ALEX122113 (1).SSF	575002.0132	35615
721960.026	4294285.434	5651	21-Dec-13	ALEX122113 (1).SSF	575003.2168	35616
721960.357	4294285.868	5914	21-Dec-13	ALEX122113 (1).SSF	575004.1152	35617
721960.736	4294286.499	6139	21-Dec-13	ALEX122113 (1).SSF	575005.269	35618
721961.12	4294287.058	6007	21-Dec-13	ALEX122113 (1).SSF	575006.082	35619
721961.68	4294287.768	5996	21-Dec-13	ALEX122113 (1).SSF	575007.2622	35620
721961.971	4294288.176	6507	21-Dec-13	ALEX122113 (1).SSF	575008.0811	35621
721962.462	4294288.909	6693	21-Dec-13	ALEX122113 (1).SSF	575009.292	35622
721962.76	4294289.513	8063	21-Dec-13	ALEX122113 (1).SSF	575010.0791	35623
721963.167	4294290.305	8315	21-Dec-13	ALEX122113 (1).SSF	575011.168	35624
721963.622	4294290.907	7299	21-Dec-13	ALEX122113 (1).SSF	575012.0718	35625
721964.028	4294291.448	7794	21-Dec-13	ALEX122113 (1).SSF	575013.0879	35626
721964.361	4294291.966	9028	21-Dec-13	ALEX122113 (1).SSF	575014.1201	35627
721964.69	4294292.632	8917	21-Dec-13	ALEX122113 (1).SSF	575015.0952	35628
721965.059	4294293.204	9339	21-Dec-13	ALEX122113 (1).SSF	575015.9819	35629
721965.551	4294293.826	8904	21-Dec-13	ALEX122113 (1).SSF	575017.1108	35630
721965.938	4294294.465	8346	21-Dec-13	ALEX122113 (1).SSF	575018.0288	35631
721966.557	4294295.271	9016	21-Dec-13	ALEX122113 (1).SSF	575019.0898	35632
721967.16	4294295.988	8974	21-Dec-13	ALEX122113 (1).SSF	575020.1572	35633
721967.542	4294296.497	9623	21-Dec-13	ALEX122113 (1).SSF	575021.1489	35634
721967.831	4294296.91	8766	21-Dec-13	ALEX122113 (1).SSF	575022.1279	35635
721968.174	4294297.586	9031	21-Dec-13	ALEX122113 (1).SSF	575023.0889	35636
721968.637	4294298.46	9855	21-Dec-13	ALEX122113 (1).SSF	575024.105	35637
721969.063	4294299.408	9437	21-Dec-13	ALEX122113 (1).SSF	575025.0942	35638
721969.46	4294300.022	10249	21-Dec-13	ALEX122113 (1).SSF	575025.9971	35639
721970.06	4294300.61	9312	21-Dec-13	ALEX122113 (1).SSF	575027.2061	35640
721970.324	4294300.97	8868	21-Dec-13	ALEX122113 (1).SSF	575028.0869	35641
721970.825	4294301.449	9387	21-Dec-13	ALEX122113 (1).SSF	575029.1621	35642
721971.274	4294302.01	9006	21-Dec-13	ALEX122113 (1).SSF	575030.0332	35643
721971.861	4294302.763	9541	21-Dec-13	ALEX122113 (1).SSF	575031.0171	35644
721972.413	4294303.403	10845	21-Dec-13	ALEX122113 (1).SSF	575032.1548	35645
721972.751	4294303.952	9911	21-Dec-13	ALEX122113 (1).SSF	575033.1411	35646
721973.109	4294304.482	10068	21-Dec-13	ALEX122113 (1).SSF	575034.0308	35647
721973.605	4294305.384	10317	21-Dec-13	ALEX122113 (1).SSF	575035.1421	35648

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721973.979	4294306.106	9989	21-Dec-13	ALEX122113 (1).SSF	575036.064	35649
721974.485	4294306.641	11317	21-Dec-13	ALEX122113 (1).SSF	575037.1958	35650
721974.861	4294307.147	10818	21-Dec-13	ALEX122113 (1).SSF	575038.106	35651
721975.382	4294307.906	9557	21-Dec-13	ALEX122113 (1).SSF	575039.106	35652
721975.84	4294308.631	10249	21-Dec-13	ALEX122113 (1).SSF	575040.1089	35653
721976.239	4294309.176	9942	21-Dec-13	ALEX122113 (1).SSF	575041.1001	35654
721976.656	4294309.547	10675	21-Dec-13	ALEX122113 (1).SSF	575042.0078	35655
721977.158	4294310.09	11279	21-Dec-13	ALEX122113 (1).SSF	575043.0918	35656
721977.663	4294310.656	9329	21-Dec-13	ALEX122113 (1).SSF	575044.103	35657
721978.051	4294311.169	8902	21-Dec-13	ALEX122113 (1).SSF	575045.0698	35658
721978.195	4294311.525	9545	21-Dec-13	ALEX122113 (1).SSF	575046.0449	35659
721978.593	4294311.937	9226	21-Dec-13	ALEX122113 (1).SSF	575047.1401	35660
721978.854	4294312.394	9806	21-Dec-13	ALEX122113 (1).SSF	575047.9648	35661
721979.314	4294313.242	8421	21-Dec-13	ALEX122113 (1).SSF	575049.1118	35662
721979.638	4294313.823	10325	21-Dec-13	ALEX122113 (1).SSF	575050.0161	35663
721979.836	4294314.268	9091	21-Dec-13	ALEX122113 (1).SSF	575051.1099	35664
721980.061	4294314.556	9652	21-Dec-13	ALEX122113 (1).SSF	575052.064	35665
721980.309	4294315.139	10243	21-Dec-13	ALEX122113 (1).SSF	575053.0269	35666
721980.725	4294315.915	9791	21-Dec-13	ALEX122113 (1).SSF	575054.1099	35667
721981.16	4294316.533	9527	21-Dec-13	ALEX122113 (1).SSF	575055.124	35668
721981.451	4294317.107	10601	21-Dec-13	ALEX122113 (1).SSF	575056.02	35669
721982.056	4294317.883	9910	21-Dec-13	ALEX122113 (1).SSF	575057.0811	35670
721982.664	4294318.591	9077	21-Dec-13	ALEX122113 (1).SSF	575058.02	35671
721983.139	4294319.13	10699	21-Dec-13	ALEX122113 (1).SSF	575059.1001	35672
721983.551	4294319.426	9424	21-Dec-13	ALEX122113 (1).SSF	575060.019	35673
721984.136	4294320.076	10006	21-Dec-13	ALEX122113 (1).SSF	575061.1431	35674
721984.713	4294320.803	9371	21-Dec-13	ALEX122113 (1).SSF	575062.083	35675
721985.245	4294321.572	10173	21-Dec-13	ALEX122113 (1).SSF	575063.1172	35676
721985.554	4294321.987	9263	21-Dec-13	ALEX122113 (1).SSF	575063.9922	35677
721985.996	4294322.412	9095	21-Dec-13	ALEX122113 (1).SSF	575065.0879	35678
721986.414	4294323.066	10194	21-Dec-13	ALEX122113 (1).SSF	575065.9932	35679
721986.927	4294323.83	9688	21-Dec-13	ALEX122113 (1).SSF	575067.146	35680
721987.355	4294324.247	9712	21-Dec-13	ALEX122113 (1).SSF	575068.0181	35681
721987.778	4294324.753	8878	21-Dec-13	ALEX122113 (1).SSF	575069.0571	35682
721988.243	4294325.242	9239	21-Dec-13	ALEX122113 (1).SSF	575069.9248	35683
721988.915	4294326.04	9210	21-Dec-13	ALEX122113 (1).SSF	575071.228	35684
721989.139	4294326.412	9982	21-Dec-13	ALEX122113 (1).SSF	575071.9492	35685
721989.481	4294326.785	9905	21-Dec-13	ALEX122113 (1).SSF	575073.124	35686
721989.662	4294326.999	9586	21-Dec-13	ALEX122113 (1).SSF	575073.9541	35687
721989.549	4294327.462	9506	21-Dec-13	ALEX122113 (1).SSF	575075.0708	35688
721989.157	4294327.858	9696	21-Dec-13	ALEX122113 (1).SSF	575076.0791	35689
721988.753	4294328.09	10554	21-Dec-13	ALEX122113 (1).SSF	575077.1821	35690
721988.73	4294328.193	10437	21-Dec-13	ALEX122113 (1).SSF	575078.062	35691
721988.79	4294328.14	9854	21-Dec-13	ALEX122113 (1).SSF	575079.1079	35692
721988.713	4294328.014	9213	21-Dec-13	ALEX122113 (1).SSF	575080.0552	35693
721988.689	4294327.954	8873	21-Dec-13	ALEX122113 (1).SSF	575081.0791	35694
721988.682	4294327.895	9268	21-Dec-13	ALEX122113 (1).SSF	575081.9771	35695

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721988.586	4294327.85	9457	21-Dec-13	ALEX122113 (1).SSF	575082.9771	35696
721988.62	4294327.803	8814	21-Dec-13	ALEX122113 (1).SSF	575083.9731	35697
721988.638	4294327.784	9253	21-Dec-13	ALEX122113 (1).SSF	575085.0771	35698
721988.703	4294327.75	9513	21-Dec-13	ALEX122113 (1).SSF	575086.146	35699
721988.72	4294327.662	9488	21-Dec-13	ALEX122113 (1).SSF	575087.5469	35700
721988.731	4294327.629	9242	21-Dec-13	ALEX122113 (1).SSF	575088.0591	35701
721988.76	4294327.577	9780	21-Dec-13	ALEX122113 (1).SSF	575089.1792	35702
721988.775	4294327.543	9165	21-Dec-13	ALEX122113 (1).SSF	575090.0698	35703
721988.772	4294327.516	8411	21-Dec-13	ALEX122113 (1).SSF	575091.0581	35704
721988.716	4294327.531	9393	21-Dec-13	ALEX122113 (1).SSF	575091.9429	35705
721988.651	4294327.594	8858	21-Dec-13	ALEX122113 (1).SSF	575093.0308	35706
721988.605	4294327.631	9324	21-Dec-13	ALEX122113 (1).SSF	575094.0132	35707
721988.558	4294327.517	9051	21-Dec-13	ALEX122113 (1).SSF	575095.0811	35708
721988.391	4294327.257	10482	21-Dec-13	ALEX122113 (1).SSF	575096.019	35709
721987.874	4294326.635	9190	21-Dec-13	ALEX122113 (1).SSF	575097.1431	35710
721987.436	4294326.116	9197	21-Dec-13	ALEX122113 (1).SSF	575098.0151	35711
721987.058	4294325.575	9349	21-Dec-13	ALEX122113 (1).SSF	575099.0791	35712
721986.614	4294325.079	9567	21-Dec-13	ALEX122113 (1).SSF	575099.9399	35713
721986.113	4294324.292	8962	21-Dec-13	ALEX122113 (1).SSF	575101.0942	35714
721985.826	4294323.794	9170	21-Dec-13	ALEX122113 (1).SSF	575102.0171	35715
721985.453	4294323.446	9042	21-Dec-13	ALEX122113 (1).SSF	575103.0859	35716
721985.026	4294322.901	9340	21-Dec-13	ALEX122113 (1).SSF	575104.1421	35717
721984.601	4294322.28	10495	21-Dec-13	ALEX122113 (1).SSF	575105.0581	35718
721984.089	4294321.494	9703	21-Dec-13	ALEX122113 (1).SSF	575106.1001	35719
721983.573	4294320.846	9176	21-Dec-13	ALEX122113 (1).SSF	575107.1729	35720
721983.297	4294320.471	9614	21-Dec-13	ALEX122113 (1).SSF	575107.8999	35721
721982.886	4294319.851	9813	21-Dec-13	ALEX122113 (1).SSF	575109.1338	35722
721982.569	4294319.501	9173	21-Dec-13	ALEX122113 (1).SSF	575109.9419	35723
721982.335	4294319.07	9583	21-Dec-13	ALEX122113 (1).SSF	575111.0991	35724
721982.088	4294318.688	11186	21-Dec-13	ALEX122113 (1).SSF	575112.0259	35725
721981.63	4294317.982	9186	21-Dec-13	ALEX122113 (1).SSF	575113.2002	35726
721981.262	4294317.455	10066	21-Dec-13	ALEX122113 (1).SSF	575114.0288	35727
721980.801	4294316.941	9116	21-Dec-13	ALEX122113 (1).SSF	575114.9761	35728
721980.495	4294316.46	9899	21-Dec-13	ALEX122113 (1).SSF	575115.9341	35729
721980.04	4294315.864	9885	21-Dec-13	ALEX122113 (1).SSF	575117.0352	35730
721979.611	4294315.268	9671	21-Dec-13	ALEX122113 (1).SSF	575117.9932	35731
721979.229	4294314.697	10157	21-Dec-13	ALEX122113 (1).SSF	575119.0991	35732
721978.954	4294314.261	9409	21-Dec-13	ALEX122113 (1).SSF	575120.0581	35733
721978.522	4294313.397	10902	21-Dec-13	ALEX122113 (1).SSF	575121.2231	35734
721978.135	4294312.877	10855	21-Dec-13	ALEX122113 (1).SSF	575121.9868	35735
721977.576	4294312.262	10484	21-Dec-13	ALEX122113 (1).SSF	575123.2329	35736
721977.303	4294311.823	8861	21-Dec-13	ALEX122113 (1).SSF	575124.0322	35737
721976.704	4294311.138	9295	21-Dec-13	ALEX122113 (1).SSF	575125.0601	35738
721976.154	4294310.383	9913	21-Dec-13	ALEX122113 (1).SSF	575126.002	35739
721975.729	4294309.777	9228	21-Dec-13	ALEX122113 (1).SSF	575127.1152	35740
721975.371	4294309.462	9657	21-Dec-13	ALEX122113 (1).SSF	575128.0869	35741
721975.026	4294309.03	9014	21-Dec-13	ALEX122113 (1).SSF	575129.0469	35742

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721974.561	4294308.467	10023	21-Dec-13	ALEX122113 (1).SSF	575129.9341	35743
721974.003	4294307.667	9615	21-Dec-13	ALEX122113 (1).SSF	575131.0371	35744
721973.739	4294307.179	9993	21-Dec-13	ALEX122113 (1).SSF	575131.9438	35745
721973.395	4294306.733	10898	21-Dec-13	ALEX122113 (1).SSF	575133.0059	35746
721973.102	4294306.262	8724	21-Dec-13	ALEX122113 (1).SSF	575133.9521	35747
721972.538	4294305.508	9021	21-Dec-13	ALEX122113 (1).SSF	575135.1392	35748
721972.111	4294304.829	10115	21-Dec-13	ALEX122113 (1).SSF	575136.0142	35749
721971.556	4294304.087	10088	21-Dec-13	ALEX122113 (1).SSF	575137.0811	35750
721971.073	4294303.56	9452	21-Dec-13	ALEX122113 (1).SSF	575138.083	35751
721970.74	4294303.105	9473	21-Dec-13	ALEX122113 (1).SSF	575139.103	35752
721970.45	4294302.67	9868	21-Dec-13	ALEX122113 (1).SSF	575140.0342	35753
721970.143	4294302.104	10207	21-Dec-13	ALEX122113 (1).SSF	575140.96	35754
721969.6	4294301.278	9661	21-Dec-13	ALEX122113 (1).SSF	575142.0479	35755
721969.127	4294300.675	9705	21-Dec-13	ALEX122113 (1).SSF	575142.9858	35756
721968.672	4294300.192	8816	21-Dec-13	ALEX122113 (1).SSF	575144.0889	35757
721968.261	4294299.789	8774	21-Dec-13	ALEX122113 (1).SSF	575145.0708	35758
721967.973	4294299.331	8913	21-Dec-13	ALEX122113 (1).SSF	575146.0122	35759
721967.64	4294298.624	10328	21-Dec-13	ALEX122113 (1).SSF	575147.188	35760
721967.281	4294297.943	10202	21-Dec-13	ALEX122113 (1).SSF	575148.1631	35761
721966.849	4294297.164	11190	21-Dec-13	ALEX122113 (1).SSF	575149.1172	35762
721966.372	4294296.325	9817	21-Dec-13	ALEX122113 (1).SSF	575150.0811	35763
721965.944	4294295.679	9504	21-Dec-13	ALEX122113 (1).SSF	575151.0649	35764
721965.531	4294295.283	9696	21-Dec-13	ALEX122113 (1).SSF	575152.001	35765
721965.167	4294294.828	9174	21-Dec-13	ALEX122113 (1).SSF	575153.0649	35766
721964.692	4294294.293	8773	21-Dec-13	ALEX122113 (1).SSF	575154.0488	35767
721964.147	4294293.479	8493	21-Dec-13	ALEX122113 (1).SSF	575155.0708	35768
721963.789	4294292.728	9113	21-Dec-13	ALEX122113 (1).SSF	575155.936	35769
721963.283	4294292.02	9058	21-Dec-13	ALEX122113 (1).SSF	575157.0181	35770
721962.877	4294291.421	8504	21-Dec-13	ALEX122113 (1).SSF	575157.9468	35771
721962.317	4294290.639	7916	21-Dec-13	ALEX122113 (1).SSF	575159.1079	35772
721961.969	4294290.172	7618	21-Dec-13	ALEX122113 (1).SSF	575159.8779	35773
721961.602	4294289.594	7537	21-Dec-13	ALEX122113 (1).SSF	575161.0649	35774
721961.288	4294289.183	7074	21-Dec-13	ALEX122113 (1).SSF	575161.9639	35775
721960.85	4294288.41	7618	21-Dec-13	ALEX122113 (1).SSF	575163.1548	35776
721960.619	4294287.981	7424	21-Dec-13	ALEX122113 (1).SSF	575163.9351	35777
721960.347	4294287.517	7706	21-Dec-13	ALEX122113 (1).SSF	575165.0991	35778
721960.071	4294287.103	6096	21-Dec-13	ALEX122113 (1).SSF	575165.9609	35779
721959.596	4294286.506	6714	21-Dec-13	ALEX122113 (1).SSF	575167.1182	35780
721959.348	4294286.083	6568	21-Dec-13	ALEX122113 (1).SSF	575167.9629	35781
721959.088	4294285.43	6502	21-Dec-13	ALEX122113 (1).SSF	575169.0171	35782
721958.748	4294284.554	6185	21-Dec-13	ALEX122113 (1).SSF	575170.145	35783
721958.251	4294283.791	5836	21-Dec-13	ALEX122113 (1).SSF	575171.1519	35784
721957.782	4294283.202	6012	21-Dec-13	ALEX122113 (1).SSF	575172.0479	35785
721957.412	4294282.706	5789	21-Dec-13	ALEX122113 (1).SSF	575173.0781	35786
721957.026	4294282.242	6206	21-Dec-13	ALEX122113 (1).SSF	575174.0361	35787
721956.673	4294281.614	6651	21-Dec-13	ALEX122113 (1).SSF	575175.064	35788
721956.378	4294281.006	6732	21-Dec-13	ALEX122113 (1).SSF	575176.0181	35789

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721956.015	4294280.53	6813	21-Dec-13	ALEX122113 (1).SSF	575177.0298	35790
721955.804	4294280.144	6983	21-Dec-13	ALEX122113 (1).SSF	575178.021	35791
721955.444	4294279.486	7835	21-Dec-13	ALEX122113 (1).SSF	575179.1392	35792
721955.199	4294278.932	6819	21-Dec-13	ALEX122113 (1).SSF	575180.0479	35793
721954.966	4294278.542	6744	21-Dec-13	ALEX122113 (1).SSF	575181.0698	35794
721954.714	4294278.3	7356	21-Dec-13	ALEX122113 (1).SSF	575182.0259	35795
721954.68	4294278.107	6849	21-Dec-13	ALEX122113 (1).SSF	575183.0708	35796
721954.795	4294278.069	6482	21-Dec-13	ALEX122113 (1).SSF	575184.019	35797
721954.898	4294277.99	6360	21-Dec-13	ALEX122113 (1).SSF	575185.0942	35798
721954.889	4294277.954	6930	21-Dec-13	ALEX122113 (1).SSF	575185.958	35799
721954.721	4294278.032	7222	21-Dec-13	ALEX122113 (1).SSF	575186.9912	35800
721954.452	4294278.068	7265	21-Dec-13	ALEX122113 (1).SSF	575187.9341	35801
721954.069	4294278.131	7336	21-Dec-13	ALEX122113 (1).SSF	575189.041	35802
721953.915	4294278.142	6544	21-Dec-13	ALEX122113 (1).SSF	575189.9922	35803
721953.906	4294278.148	6676	21-Dec-13	ALEX122113 (1).SSF	575191.001	35804
721953.845	4294278.159	6259	21-Dec-13	ALEX122113 (1).SSF	575191.9668	35805
721953.6	4294278.139	7024	21-Dec-13	ALEX122113 (1).SSF	575193.0371	35806
721953.397	4294278.114	6766	21-Dec-13	ALEX122113 (1).SSF	575193.9409	35807
721953.353	4294278.135	6761	21-Dec-13	ALEX122113 (1).SSF	575195.1411	35808
721953.297	4294278.304	6460	21-Dec-13	ALEX122113 (1).SSF	575196.0259	35809
721953.12	4294278.579	7465	21-Dec-13	ALEX122113 (1).SSF	575197.0659	35810
721953.125	4294278.709	6756	21-Dec-13	ALEX122113 (1).SSF	575197.998	35811
721953.171	4294278.798	7179	21-Dec-13	ALEX122113 (1).SSF	575199.1099	35812
721953.355	4294278.759	5964	21-Dec-13	ALEX122113 (1).SSF	575200.0581	35813
721953.47	4294278.695	6310	21-Dec-13	ALEX122113 (1).SSF	575201.0508	35814
721953.547	4294278.706	6617	21-Dec-13	ALEX122113 (1).SSF	575201.9971	35815
721953.604	4294278.972	6426	21-Dec-13	ALEX122113 (1).SSF	575202.9868	35816
721953.732	4294279.47	6796	21-Dec-13	ALEX122113 (1).SSF	575203.9292	35817
721953.896	4294280.196	7579	21-Dec-13	ALEX122113 (1).SSF	575205.1592	35818
721953.973	4294280.522	7834	21-Dec-13	ALEX122113 (1).SSF	575205.939	35819
721954.149	4294280.853	7418	21-Dec-13	ALEX122113 (1).SSF	575207.0649	35820
721954.384	4294281.061	7584	21-Dec-13	ALEX122113 (1).SSF	575208.0708	35821
721954.54	4294281.439	7866	21-Dec-13	ALEX122113 (1).SSF	575209.041	35822
721954.885	4294282.008	7306	21-Dec-13	ALEX122113 (1).SSF	575210.105	35823
721955.329	4294282.626	6596	21-Dec-13	ALEX122113 (1).SSF	575210.9922	35824
721955.654	4294283.181	6509	21-Dec-13	ALEX122113 (1).SSF	575211.9868	35825
721956.065	4294283.76	6457	21-Dec-13	ALEX122113 (1).SSF	575213.0591	35826
721956.312	4294284.362	5646	21-Dec-13	ALEX122113 (1).SSF	575213.9551	35827
721956.47	4294284.703	6108	21-Dec-13	ALEX122113 (1).SSF	575215.0298	35828
721956.61	4294284.683	5274	21-Dec-13	ALEX122113 (1).SSF	575216.0342	35829
721956.646	4294284.627	5585	21-Dec-13	ALEX122113 (1).SSF	575216.9961	35830
721956.69	4294284.688	5811	21-Dec-13	ALEX122113 (1).SSF	575218.0151	35831
721956.892	4294285.18	5841	21-Dec-13	ALEX122113 (1).SSF	575219.147	35832
721957.176	4294285.862	5805	21-Dec-13	ALEX122113 (1).SSF	575220.2202	35833
721957.426	4294286.228	6347	21-Dec-13	ALEX122113 (1).SSF	575220.792	35834
721957.849	4294286.865	5246	21-Dec-13	ALEX122113 (1).SSF	575221.771	35835
721958.194	4294287.391	5523	21-Dec-13	ALEX122113 (1).SSF	575222.8188	35836

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721958.568	4294287.774	6511	21-Dec-13	ALEX122113 (1).SSF	575223.6572	35837
721959.214	4294288.688	6041	21-Dec-13	ALEX122113 (1).SSF	575225.105	35838
721959.512	4294289.247	5978	21-Dec-13	ALEX122113 (1).SSF	575226.0088	35839
721959.918	4294289.854	6438	21-Dec-13	ALEX122113 (1).SSF	575227.0811	35840
721960.276	4294290.469	7129	21-Dec-13	ALEX122113 (1).SSF	575228.0298	35841
721960.675	4294291.159	6792	21-Dec-13	ALEX122113 (1).SSF	575229.0781	35842
721961.022	4294291.657	7728	21-Dec-13	ALEX122113 (1).SSF	575230.0391	35843
721961.339	4294292.269	8022	21-Dec-13	ALEX122113 (1).SSF	575230.9868	35844
721961.754	4294292.801	8335	21-Dec-13	ALEX122113 (1).SSF	575231.9258	35845
721962.234	4294293.2	8474	21-Dec-13	ALEX122113 (1).SSF	575232.9868	35846
721962.485	4294293.834	8388	21-Dec-13	ALEX122113 (1).SSF	575233.958	35847
721962.929	4294294.772	8487	21-Dec-13	ALEX122113 (1).SSF	575235.1572	35848
721963.311	4294295.288	9201	21-Dec-13	ALEX122113 (1).SSF	575235.9321	35849
721963.634	4294295.9	10070	21-Dec-13	ALEX122113 (1).SSF	575236.9438	35850
721964.014	4294296.517	9297	21-Dec-13	ALEX122113 (1).SSF	575237.8979	35851
721964.565	4294297.346	9944	21-Dec-13	ALEX122113 (1).SSF	575239.063	35852
721964.826	4294297.826	10076	21-Dec-13	ALEX122113 (1).SSF	575239.9551	35853
721965.12	4294298.175	9029	21-Dec-13	ALEX122113 (1).SSF	575241.0371	35854
721965.339	4294298.573	10267	21-Dec-13	ALEX122113 (1).SSF	575242.001	35855
721965.857	4294299.281	9676	21-Dec-13	ALEX122113 (1).SSF	575243.0898	35856
721966.775	4294300.803	8869	21-Dec-13	ALEX122113 (1).SSF	575244.9902	35858
721967.206	4294301.269	10527	21-Dec-13	ALEX122113 (1).SSF	575245.8408	35859
721967.556	4294301.725	9862	21-Dec-13	ALEX122113 (1).SSF	575246.8818	35860
721967.828	4294302.163	9395	21-Dec-13	ALEX122113 (1).SSF	575247.8271	35861
721968.266	4294302.87	10058	21-Dec-13	ALEX122113 (1).SSF	575249.0981	35862
721968.624	4294303.405	9594	21-Dec-13	ALEX122113 (1).SSF	575249.917	35863
721969.181	4294304.311	10258	21-Dec-13	ALEX122113 (1).SSF	575251.042	35864
721969.691	4294305.008	9824	21-Dec-13	ALEX122113 (1).SSF	575252.002	35865
721970.136	4294305.517	10406	21-Dec-13	ALEX122113 (1).SSF	575253.0542	35866
721970.367	4294305.907	9891	21-Dec-13	ALEX122113 (1).SSF	575254.0078	35867
721970.817	4294306.525	11172	21-Dec-13	ALEX122113 (1).SSF	575255.0972	35868
721971.297	4294307.236	10503	21-Dec-13	ALEX122113 (1).SSF	575255.9829	35869
721971.941	4294308.118	9495	21-Dec-13	ALEX122113 (1).SSF	575257.0991	35870
721972.462	4294308.725	10293	21-Dec-13	ALEX122113 (1).SSF	575258.0029	35871
721972.802	4294309.242	10943	21-Dec-13	ALEX122113 (1).SSF	575259.1001	35872
721973.548	4294310.441	10576	21-Dec-13	ALEX122113 (1).SSF	575260.9248	35874
721974.135	4294311.215	10144	21-Dec-13	ALEX122113 (1).SSF	575261.9238	35875
721974.667	4294311.884	9016	21-Dec-13	ALEX122113 (1).SSF	575262.916	35876
721974.936	4294312.247	9484	21-Dec-13	ALEX122113 (1).SSF	575263.8809	35877
721975.434	4294312.723	10651	21-Dec-13	ALEX122113 (1).SSF	575265.106	35878
721975.813	4294313.368	11272	21-Dec-13	ALEX122113 (1).SSF	575265.9868	35879
721976.335	4294314.14	10798	21-Dec-13	ALEX122113 (1).SSF	575267.0459	35880
721976.864	4294314.735	9269	21-Dec-13	ALEX122113 (1).SSF	575268.105	35881
721977.304	4294315.152	10627	21-Dec-13	ALEX122113 (1).SSF	575269.0942	35882
721977.682	4294315.516	9106	21-Dec-13	ALEX122113 (1).SSF	575270.0249	35883
721977.915	4294315.923	9626	21-Dec-13	ALEX122113 (1).SSF	575271	35884
721978.39	4294316.447	9306	21-Dec-13	ALEX122113 (1).SSF	575271.957	35885

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721978.888	4294317.325	10516	21-Dec-13	ALEX122113 (1).SSF	575273.0088	35886
721979.315	4294318.008	11119	21-Dec-13	ALEX122113 (1).SSF	575273.9678	35887
721979.843	4294318.644	9919	21-Dec-13	ALEX122113 (1).SSF	575275.0781	35888
721980.194	4294319.136	9980	21-Dec-13	ALEX122113 (1).SSF	575275.8921	35889
721980.768	4294319.954	10085	21-Dec-13	ALEX122113 (1).SSF	575277.0161	35890
721981.24	4294320.749	9991	21-Dec-13	ALEX122113 (1).SSF	575277.9888	35891
721981.552	4294321.355	9817	21-Dec-13	ALEX122113 (1).SSF	575279.0298	35892
721981.853	4294321.775	9354	21-Dec-13	ALEX122113 (1).SSF	575279.897	35893
721982.279	4294322.442	8728	21-Dec-13	ALEX122113 (1).SSF	575280.9248	35894
721982.794	4294323.181	9322	21-Dec-13	ALEX122113 (1).SSF	575281.9009	35895
721983.282	4294323.784	9860	21-Dec-13	ALEX122113 (1).SSF	575282.917	35896
721983.559	4294324.205	9455	21-Dec-13	ALEX122113 (1).SSF	575283.7822	35897
721984.101	4294324.938	8453	21-Dec-13	ALEX122113 (1).SSF	575284.939	35898
721984.569	4294325.578	9133	21-Dec-13	ALEX122113 (1).SSF	575285.8311	35899
721985.075	4294326.178	9633	21-Dec-13	ALEX122113 (1).SSF	575287.0718	35900
721985.42	4294326.489	8858	21-Dec-13	ALEX122113 (1).SSF	575287.9609	35901
721985.835	4294327.017	9534	21-Dec-13	ALEX122113 (1).SSF	575288.9722	35902
721986.385	4294327.603	9823	21-Dec-13	ALEX122113 (1).SSF	575289.9541	35903
721987.157	4294328.541	9626	21-Dec-13	ALEX122113 (1).SSF	575291.1382	35904
721987.51	4294328.997	9426	21-Dec-13	ALEX122113 (1).SSF	575291.8511	35905
721987.882	4294329.4	8206	21-Dec-13	ALEX122113 (1).SSF	575293.0332	35906
721987.828	4294329.678	9101	21-Dec-13	ALEX122113 (1).SSF	575293.979	35907
721987.437	4294329.573	9295	21-Dec-13	ALEX122113 (1).SSF	575295.0049	35908
721987.156	4294329.77	9164	21-Dec-13	ALEX122113 (1).SSF	575295.8252	35909
721986.875	4294330.297	10061	21-Dec-13	ALEX122113 (1).SSF	575297.0698	35910
721986.954	4294330.526	9565	21-Dec-13	ALEX122113 (1).SSF	575297.8169	35911
721986.872	4294330.837	9201	21-Dec-13	ALEX122113 (1).SSF	575298.9302	35912
721986.896	4294330.935	8990	21-Dec-13	ALEX122113 (1).SSF	575299.8662	35913
721987.017	4294330.997	8307	21-Dec-13	ALEX122113 (1).SSF	575300.9302	35914
721987.147	4294330.946	9847	21-Dec-13	ALEX122113 (1).SSF	575301.832	35915
721987.308	4294330.818	8671	21-Dec-13	ALEX122113 (1).SSF	575303.042	35916
721987.37	4294330.773	7507	21-Dec-13	ALEX122113 (1).SSF	575303.9248	35917
721987.381	4294330.737	7937	21-Dec-13	ALEX122113 (1).SSF	575305.0791	35918
721987.352	4294330.722	8974	21-Dec-13	ALEX122113 (1).SSF	575305.9858	35919
721987.328	4294330.73	8633	21-Dec-13	ALEX122113 (1).SSF	575307.1079	35920
721987.321	4294330.744	8908	21-Dec-13	ALEX122113 (1).SSF	575308.021	35921
721987.319	4294330.766	9247	21-Dec-13	ALEX122113 (1).SSF	575309.0752	35922
721987.304	4294330.783	8431	21-Dec-13	ALEX122113 (1).SSF	575309.9849	35923
721987.281	4294330.794	9097	21-Dec-13	ALEX122113 (1).SSF	575311.5439	35924
721987.273	4294330.799	8514	21-Dec-13	ALEX122113 (1).SSF	575312.0142	35925
721987.249	4294330.806	8968	21-Dec-13	ALEX122113 (1).SSF	575313.0581	35926
721987.217	4294330.819	9352	21-Dec-13	ALEX122113 (1).SSF	575314.085	35927
721987.212	4294330.814	8758	21-Dec-13	ALEX122113 (1).SSF	575315.0342	35928
721987.105	4294330.442	7669	21-Dec-13	ALEX122113 (1).SSF	575409.875	35929
721987.1	4294330.428	8037	21-Dec-13	ALEX122113 (1).SSF	575410.9331	35930
721987.092	4294330.45	8159	21-Dec-13	ALEX122113 (1).SSF	575411.8628	35931
721987.069	4294330.528	8370	21-Dec-13	ALEX122113 (1).SSF	575412.9761	35932

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721987.087	4294330.53	9532	21-Dec-13	ALEX122113 (1).SSF	575413.8711	35933
721987.052	4294330.565	9253	21-Dec-13	ALEX122113 (1).SSF	575414.876	35934
721987.031	4294330.601	9153	21-Dec-13	ALEX122113 (1).SSF	575415.8379	35935
721987.029	4294330.631	8078	21-Dec-13	ALEX122113 (1).SSF	575416.9048	35936
721987.039	4294330.649	8469	21-Dec-13	ALEX122113 (1).SSF	575417.9209	35937
721987.04	4294330.647	7667	21-Dec-13	ALEX122113 (1).SSF	575418.9331	35938
721987.032	4294330.641	9326	21-Dec-13	ALEX122113 (1).SSF	575419.9102	35939
721987.044	4294330.649	8631	21-Dec-13	ALEX122113 (1).SSF	575420.9282	35940
721987.055	4294330.65	8908	21-Dec-13	ALEX122113 (1).SSF	575421.9932	35941
721987.02	4294330.669	9997	21-Dec-13	ALEX122113 (1).SSF	575423.0962	35942
721987.035	4294330.661	9069	21-Dec-13	ALEX122113 (1).SSF	575423.9839	35943
721987.053	4294330.594	9077	21-Dec-13	ALEX122113 (1).SSF	575425.021	35944
721987.046	4294330.562	9229	21-Dec-13	ALEX122113 (1).SSF	575425.8218	35945
721986.939	4294330.567	8217	21-Dec-13	ALEX122113 (1).SSF	575426.9922	35946
721986.828	4294330.528	8834	21-Dec-13	ALEX122113 (1).SSF	575427.8882	35947
721986.898	4294330.374	8958	21-Dec-13	ALEX122113 (1).SSF	575428.958	35948
721987.039	4294330.27	9499	21-Dec-13	ALEX122113 (1).SSF	575429.8188	35949
721987.154	4294330.199	8614	21-Dec-13	ALEX122113 (1).SSF	575431.0742	35950
721987.105	4294330.218	8603	21-Dec-13	ALEX122113 (1).SSF	575431.8262	35951
721986.974	4294330.303	8541	21-Dec-13	ALEX122113 (1).SSF	575432.978	35952
721986.89	4294330.132	8705	21-Dec-13	ALEX122113 (1).SSF	575433.793	35953
721986.7	4294330.06	9886	21-Dec-13	ALEX122113 (1).SSF	575434.9302	35954
721986.561	4294330.266	8801	21-Dec-13	ALEX122113 (1).SSF	575435.771	35955
721986.304	4294330.515	8380	21-Dec-13	ALEX122113 (1).SSF	575436.9028	35956
721986.026	4294330.363	8035	21-Dec-13	ALEX122113 (1).SSF	575437.8281	35957
721985.895	4294330.035	9358	21-Dec-13	ALEX122113 (1).SSF	575438.8672	35958
721985.813	4294329.829	8729	21-Dec-13	ALEX122113 (1).SSF	575439.7979	35959
721985.547	4294329.526	9832	21-Dec-13	ALEX122113 (1).SSF	575440.979	35960
721985.241	4294329.08	9448	21-Dec-13	ALEX122113 (1).SSF	575441.9141	35961
721984.769	4294328.644	8452	21-Dec-13	ALEX122113 (1).SSF	575443.0801	35962
721984.467	4294328.32	8923	21-Dec-13	ALEX122113 (1).SSF	575443.9092	35963
721984.183	4294327.847	9790	21-Dec-13	ALEX122113 (1).SSF	575444.9312	35964
721983.697	4294327.249	9977	21-Dec-13	ALEX122113 (1).SSF	575445.916	35965
721983.161	4294326.612	9334	21-Dec-13	ALEX122113 (1).SSF	575446.918	35966
721982.867	4294326.184	9653	21-Dec-13	ALEX122113 (1).SSF	575447.8408	35967
721982.496	4294325.599	9373	21-Dec-13	ALEX122113 (1).SSF	575448.917	35968
721982.148	4294325.012	9783	21-Dec-13	ALEX122113 (1).SSF	575449.8311	35969
721981.602	4294324.283	8625	21-Dec-13	ALEX122113 (1).SSF	575450.978	35970
721981.261	4294323.786	9356	21-Dec-13	ALEX122113 (1).SSF	575451.8589	35971
721981.002	4294323.26	8549	21-Dec-13	ALEX122113 (1).SSF	575452.9629	35972
721980.651	4294322.769	8707	21-Dec-13	ALEX122113 (1).SSF	575453.834	35973
721980.16	4294321.944	9526	21-Dec-13	ALEX122113 (1).SSF	575454.9541	35974
721979.828	4294321.327	9431	21-Dec-13	ALEX122113 (1).SSF	575455.8589	35975
721978.884	4294320.076	8599	21-Dec-13	ALEX122113 (1).SSF	575457.9019	35977
721978.466	4294319.447	10249	21-Dec-13	ALEX122113 (1).SSF	575458.9302	35978
721978.026	4294319.004	9462	21-Dec-13	ALEX122113 (1).SSF	575459.8599	35979
721977.501	4294318.429	9715	21-Dec-13	ALEX122113 (1).SSF	575460.8638	35980

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721976.985	4294317.908	9597	21-Dec-13	ALEX122113 (1).SSF	575461.792	35981
721976.537	4294317.333	8009	21-Dec-13	ALEX122113 (1).SSF	575462.9121	35982
721976.273	4294316.953	9832	21-Dec-13	ALEX122113 (1).SSF	575463.7891	35983
721975.759	4294316.283	9898	21-Dec-13	ALEX122113 (1).SSF	575464.9219	35984
721975.411	4294315.65	10274	21-Dec-13	ALEX122113 (1).SSF	575465.7632	35985
721974.964	4294314.942	11148	21-Dec-13	ALEX122113 (1).SSF	575466.9302	35986
721974.53	4294314.469	9957	21-Dec-13	ALEX122113 (1).SSF	575467.8052	35987
721973.923	4294313.631	11459	21-Dec-13	ALEX122113 (1).SSF	575468.9419	35988
721973.65	4294313.144	10065	21-Dec-13	ALEX122113 (1).SSF	575469.7612	35989
721973.268	4294312.525	9686	21-Dec-13	ALEX122113 (1).SSF	575470.9702	35990
721973.008	4294312.006	8601	21-Dec-13	ALEX122113 (1).SSF	575471.8809	35991
721972.528	4294311.232	10040	21-Dec-13	ALEX122113 (1).SSF	575472.9429	35992
721972.079	4294310.492	11000	21-Dec-13	ALEX122113 (1).SSF	575473.8271	35993
721971.631	4294309.759	10550	21-Dec-13	ALEX122113 (1).SSF	575474.959	35994
721971.293	4294309.303	10317	21-Dec-13	ALEX122113 (1).SSF	575475.854	35995
721970.896	4294308.599	10289	21-Dec-13	ALEX122113 (1).SSF	575476.916	35996
721970.409	4294307.924	10012	21-Dec-13	ALEX122113 (1).SSF	575477.8618	35997
721969.744	4294307.26	9673	21-Dec-13	ALEX122113 (1).SSF	575478.916	35998
721969.288	4294306.716	10608	21-Dec-13	ALEX122113 (1).SSF	575479.8188	35999
721968.764	4294305.951	10512	21-Dec-13	ALEX122113 (1).SSF	575480.9302	36000
721968.359	4294305.336	9258	21-Dec-13	ALEX122113 (1).SSF	575481.915	36001
721968.024	4294304.712	9904	21-Dec-13	ALEX122113 (1).SSF	575482.9141	36002
721967.703	4294304.121	10096	21-Dec-13	ALEX122113 (1).SSF	575483.832	36003
721967.2	4294303.235	10324	21-Dec-13	ALEX122113 (1).SSF	575484.9771	36004
721966.818	4294302.667	9481	21-Dec-13	ALEX122113 (1).SSF	575485.8682	36005
721966.443	4294302.233	10620	21-Dec-13	ALEX122113 (1).SSF	575486.8379	36006
721966.013	4294301.626	10035	21-Dec-13	ALEX122113 (1).SSF	575487.8682	36007
721965.494	4294300.927	9708	21-Dec-13	ALEX122113 (1).SSF	575488.833	36008
721964.999	4294300.194	8607	21-Dec-13	ALEX122113 (1).SSF	575489.8052	36009
721964.591	4294299.509	9172	21-Dec-13	ALEX122113 (1).SSF	575490.895	36010
721964.373	4294299.105	9643	21-Dec-13	ALEX122113 (1).SSF	575491.812	36011
721964.03	4294298.582	9490	21-Dec-13	ALEX122113 (1).SSF	575492.8872	36012
721963.746	4294298.07	8522	21-Dec-13	ALEX122113 (1).SSF	575493.7729	36013
721963.319	4294297.272	9450	21-Dec-13	ALEX122113 (1).SSF	575494.8979	36014
721962.845	4294296.487	9472	21-Dec-13	ALEX122113 (1).SSF	575495.8882	36015
721962.358	4294295.773	9628	21-Dec-13	ALEX122113 (1).SSF	575496.9312	36016
721962.075	4294295.329	9187	21-Dec-13	ALEX122113 (1).SSF	575497.877	36017
721961.65	4294294.664	10366	21-Dec-13	ALEX122113 (1).SSF	575498.9399	36018
721961.193	4294293.823	8771	21-Dec-13	ALEX122113 (1).SSF	575499.8701	36019
721960.726	4294293.034	8313	21-Dec-13	ALEX122113 (1).SSF	575500.9448	36020
721960.33	4294292.56	9218	21-Dec-13	ALEX122113 (1).SSF	575501.8481	36021
721959.819	4294291.82	8604	21-Dec-13	ALEX122113 (1).SSF	575502.9531	36022
721959.468	4294291.313	7461	21-Dec-13	ALEX122113 (1).SSF	575503.833	36023
721959.117	4294290.846	8405	21-Dec-13	ALEX122113 (1).SSF	575504.8882	36024
721958.935	4294290.42	7291	21-Dec-13	ALEX122113 (1).SSF	575505.7998	36025
721958.661	4294289.55	6382	21-Dec-13	ALEX122113 (1).SSF	575507.0488	36026
721958.41	4294289.054	7625	21-Dec-13	ALEX122113 (1).SSF	575507.7979	36027

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721958.179	4294288.669	8176	21-Dec-13	ALEX122113 (1).SSF	575508.8711	36028
721958	4294288.402	6454	21-Dec-13	ALEX122113 (1).SSF	575509.769	36029
721957.642	4294287.827	7463	21-Dec-13	ALEX122113 (1).SSF	575510.9092	36030
721957.165	4294287.177	5766	21-Dec-13	ALEX122113 (1).SSF	575511.7959	36031
721956.565	4294286.288	6078	21-Dec-13	ALEX122113 (1).SSF	575512.9248	36032
721956.156	4294285.749	6359	21-Dec-13	ALEX122113 (1).SSF	575513.9072	36033
721955.678	4294285.255	5174	21-Dec-13	ALEX122113 (1).SSF	575514.876	36034
721955.204	4294284.588	5213	21-Dec-13	ALEX122113 (1).SSF	575515.855	36035
721954.791	4294283.811	5385	21-Dec-13	ALEX122113 (1).SSF	575516.8701	36036
721954.27	4294283.137	5429	21-Dec-13	ALEX122113 (1).SSF	575517.769	36037
721953.745	4294282.368	5843	21-Dec-13	ALEX122113 (1).SSF	575518.8652	36038
721953.513	4294281.848	6024	21-Dec-13	ALEX122113 (1).SSF	575519.7559	36039
721953.27	4294281.328	6159	21-Dec-13	ALEX122113 (1).SSF	575520.8789	36040
721953.094	4294280.85	7119	21-Dec-13	ALEX122113 (1).SSF	575521.8779	36041
721952.828	4294280.281	7420	21-Dec-13	ALEX122113 (1).SSF	575522.8921	36042
721952.533	4294279.762	7075	21-Dec-13	ALEX122113 (1).SSF	575523.856	36043
721952.297	4294279.438	6538	21-Dec-13	ALEX122113 (1).SSF	575524.9438	36044
721952.066	4294279.342	6164	21-Dec-13	ALEX122113 (1).SSF	575525.7832	36045
721951.771	4294279.201	6841	21-Dec-13	ALEX122113 (1).SSF	575527.02	36046
721951.717	4294279.139	7020	21-Dec-13	ALEX122113 (1).SSF	575527.7388	36047
721951.695	4294279.07	6945	21-Dec-13	ALEX122113 (1).SSF	575528.894	36048
721951.721	4294279.132	6716	21-Dec-13	ALEX122113 (1).SSF	575529.73	36049
721951.613	4294279.073	7259	21-Dec-13	ALEX122113 (1).SSF	575530.9541	36050
721951.615	4294279.01	7335	21-Dec-13	ALEX122113 (1).SSF	575531.8242	36051
721951.465	4294278.95	7233	21-Dec-13	ALEX122113 (1).SSF	575532.9561	36052
721951.32	4294278.998	8498	21-Dec-13	ALEX122113 (1).SSF	575533.897	36053
721950.996	4294279.002	7374	21-Dec-13	ALEX122113 (1).SSF	575535.001	36054
721950.852	4294279.06	6973	21-Dec-13	ALEX122113 (1).SSF	575535.769	36055
721950.836	4294279.166	6813	21-Dec-13	ALEX122113 (1).SSF	575536.9058	36056
721950.84	4294279.202	7523	21-Dec-13	ALEX122113 (1).SSF	575537.752	36057
721950.977	4294279.26	6590	21-Dec-13	ALEX122113 (1).SSF	575538.8408	36058
721951.141	4294279.623	6807	21-Dec-13	ALEX122113 (1).SSF	575539.8418	36059
721951.116	4294279.84	7582	21-Dec-13	ALEX122113 (1).SSF	575540.8799	36060
721951.01	4294279.937	6965	21-Dec-13	ALEX122113 (1).SSF	575541.7549	36061
721951.004	4294280.07	8341	21-Dec-13	ALEX122113 (1).SSF	575542.876	36062
721951.028	4294280.071	6795	21-Dec-13	ALEX122113 (1).SSF	575543.835	36063
721951.013	4294280.137	7728	21-Dec-13	ALEX122113 (1).SSF	575544.9312	36064
721951.061	4294280.254	7212	21-Dec-13	ALEX122113 (1).SSF	575545.8252	36065
721951.32	4294280.601	7473	21-Dec-13	ALEX122113 (1).SSF	575546.998	36066
721951.586	4294280.794	6908	21-Dec-13	ALEX122113 (1).SSF	575547.8721	36067
721951.735	4294280.98	7187	21-Dec-13	ALEX122113 (1).SSF	575548.936	36068
721951.935	4294281.319	5920	21-Dec-13	ALEX122113 (1).SSF	575549.8271	36069
721952.294	4294281.822	6510	21-Dec-13	ALEX122113 (1).SSF	575550.9141	36070
721952.412	4294282.244	6341	21-Dec-13	ALEX122113 (1).SSF	575551.7959	36071
721952.628	4294283.029	6835	21-Dec-13	ALEX122113 (1).SSF	575552.9502	36072
721952.963	4294283.528	5953	21-Dec-13	ALEX122113 (1).SSF	575553.7998	36073
721953.332	4294284.186	6432	21-Dec-13	ALEX122113 (1).SSF	575554.938	36074

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721953.651	4294284.768	6498	21-Dec-13	ALEX122113 (1).SSF	575555.7969	36075
721954.167	4294285.597	5914	21-Dec-13	ALEX122113 (1).SSF	575556.9282	36076
721954.466	4294286.167	5816	21-Dec-13	ALEX122113 (1).SSF	575557.8472	36077
721954.875	4294286.823	6009	21-Dec-13	ALEX122113 (1).SSF	575558.917	36078
721955.255	4294287.454	5930	21-Dec-13	ALEX122113 (1).SSF	575559.8379	36079
721955.632	4294288.169	6228	21-Dec-13	ALEX122113 (1).SSF	575560.9209	36080
721955.91	4294288.633	5877	21-Dec-13	ALEX122113 (1).SSF	575561.8018	36081
721956.196	4294289.12	6088	21-Dec-13	ALEX122113 (1).SSF	575562.894	36082
721956.567	4294289.694	6322	21-Dec-13	ALEX122113 (1).SSF	575563.813	36083
721956.995	4294290.426	7430	21-Dec-13	ALEX122113 (1).SSF	575564.832	36084
721957.294	4294290.949	6927	21-Dec-13	ALEX122113 (1).SSF	575565.7622	36085
721957.629	4294291.228	7852	21-Dec-13	ALEX122113 (1).SSF	575566.96	36086
721957.837	4294291.399	6913	21-Dec-13	ALEX122113 (1).SSF	575567.8428	36087
721958.044	4294291.748	7578	21-Dec-13	ALEX122113 (1).SSF	575569.0161	36088
721958.242	4294292.089	7354	21-Dec-13	ALEX122113 (1).SSF	575569.8262	36089
721958.704	4294292.837	7958	21-Dec-13	ALEX122113 (1).SSF	575570.8491	36090
721959.288	4294293.472	7839	21-Dec-13	ALEX122113 (1).SSF	575571.8359	36091
721959.814	4294294.081	7780	21-Dec-13	ALEX122113 (1).SSF	575572.8569	36092
721960.255	4294294.725	7495	21-Dec-13	ALEX122113 (1).SSF	575573.7622	36093
721960.786	4294295.581	7303	21-Dec-13	ALEX122113 (1).SSF	575574.9502	36094
721961.053	4294296.012	7796	21-Dec-13	ALEX122113 (1).SSF	575575.8472	36095
721961.36	4294296.478	8549	21-Dec-13	ALEX122113 (1).SSF	575576.874	36096
721961.624	4294297.089	7747	21-Dec-13	ALEX122113 (1).SSF	575577.792	36097
721962.147	4294297.84	8116	21-Dec-13	ALEX122113 (1).SSF	575578.8452	36098
721962.801	4294298.539	8419	21-Dec-13	ALEX122113 (1).SSF	575579.8472	36099
721963.276	4294299.161	8554	21-Dec-13	ALEX122113 (1).SSF	575580.9209	36100
721963.546	4294299.587	8708	21-Dec-13	ALEX122113 (1).SSF	575581.8008	36101
721963.925	4294300.232	9107	21-Dec-13	ALEX122113 (1).SSF	575582.8242	36102
721964.49	4294301.061	8576	21-Dec-13	ALEX122113 (1).SSF	575583.855	36103
721965.039	4294301.799	8414	21-Dec-13	ALEX122113 (1).SSF	575584.9058	36104
721965.287	4294302.178	9903	21-Dec-13	ALEX122113 (1).SSF	575585.7842	36105
721965.582	4294302.645	10095	21-Dec-13	ALEX122113 (1).SSF	575586.939	36106
721965.778	4294303.03	9243	21-Dec-13	ALEX122113 (1).SSF	575587.8218	36107
721966.079	4294303.534	9541	21-Dec-13	ALEX122113 (1).SSF	575588.8589	36108
721966.477	4294304.114	8775	21-Dec-13	ALEX122113 (1).SSF	575589.8828	36109
721966.974	4294304.874	9753	21-Dec-13	ALEX122113 (1).SSF	575590.8589	36110
721967.467	4294305.668	9548	21-Dec-13	ALEX122113 (1).SSF	575591.7861	36111
721967.959	4294306.359	9977	21-Dec-13	ALEX122113 (1).SSF	575592.9019	36112
721968.261	4294306.697	9754	21-Dec-13	ALEX122113 (1).SSF	575593.8149	36113
721968.491	4294307.182	9758	21-Dec-13	ALEX122113 (1).SSF	575594.8931	36114
721968.719	4294307.702	9549	21-Dec-13	ALEX122113 (1).SSF	575595.8521	36115
721969.155	4294308.448	9677	21-Dec-13	ALEX122113 (1).SSF	575596.874	36116
721969.667	4294309.09	8719	21-Dec-13	ALEX122113 (1).SSF	575597.8198	36117
721970.291	4294309.971	9829	21-Dec-13	ALEX122113 (1).SSF	575598.9458	36118
721970.743	4294310.676	10407	21-Dec-13	ALEX122113 (1).SSF	575599.8638	36119
721971.119	4294311.183	9982	21-Dec-13	ALEX122113 (1).SSF	575600.895	36120
721971.329	4294311.681	9245	21-Dec-13	ALEX122113 (1).SSF	575601.812	36121

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721971.624	4294312.198	9571	21-Dec-13	ALEX122113 (1).SSF	575602.8242	36122
721972.101	4294312.827	9472	21-Dec-13	ALEX122113 (1).SSF	575603.8481	36123
721972.752	4294313.519	9628	21-Dec-13	ALEX122113 (1).SSF	575604.833	36124
721973.337	4294314.128	9187	21-Dec-13	ALEX122113 (1).SSF	575605.7852	36125
721973.691	4294314.637	9706	21-Dec-13	ALEX122113 (1).SSF	575606.9038	36126
721973.881	4294315.005	9566	21-Dec-13	ALEX122113 (1).SSF	575607.8159	36127
721974.102	4294315.576	10821	21-Dec-13	ALEX122113 (1).SSF	575608.8242	36128
721974.493	4294316.312	10115	21-Dec-13	ALEX122113 (1).SSF	575609.7529	36129
721975.115	4294317.23	9788	21-Dec-13	ALEX122113 (1).SSF	575610.8691	36130
721975.47	4294317.746	10787	21-Dec-13	ALEX122113 (1).SSF	575611.7222	36131
721975.711	4294318.107	10676	21-Dec-13	ALEX122113 (1).SSF	575612.8569	36132
721975.72	4294318.113	10889	21-Dec-13	ALEX122113 (1).SSF	575613.77	36133
721975.776	4294318.055	9682	21-Dec-13	ALEX122113 (1).SSF	575614.7769	36134
721975.857	4294317.956	10040	21-Dec-13	ALEX122113 (1).SSF	575615.7871	36135
721975.82	4294318.082	9560	21-Dec-13	ALEX122113 (1).SSF	575616.9292	36136
721975.761	4294318.126	10250	21-Dec-13	ALEX122113 (1).SSF	575617.8291	36137
721975.74	4294318.198	10062	21-Dec-13	ALEX122113 (1).SSF	575618.9238	36138
721975.943	4294318.437	10435	21-Dec-13	ALEX122113 (1).SSF	575619.8501	36139
721976.363	4294318.912	11009	21-Dec-13	ALEX122113 (1).SSF	575620.9058	36140
721976.693	4294319.461	9832	21-Dec-13	ALEX122113 (1).SSF	575621.8062	36141
721977.275	4294320.312	10138	21-Dec-13	ALEX122113 (1).SSF	575622.9102	36142
721977.668	4294320.945	9854	21-Dec-13	ALEX122113 (1).SSF	575623.8071	36143
721978.006	4294321.528	10413	21-Dec-13	ALEX122113 (1).SSF	575624.916	36144
721978.266	4294321.956	9893	21-Dec-13	ALEX122113 (1).SSF	575625.832	36145
721978.499	4294322.375	9943	21-Dec-13	ALEX122113 (1).SSF	575626.835	36146
721978.843	4294322.781	10226	21-Dec-13	ALEX122113 (1).SSF	575627.7578	36147
721979.415	4294323.361	8466	21-Dec-13	ALEX122113 (1).SSF	575628.873	36148
721979.908	4294323.875	10096	21-Dec-13	ALEX122113 (1).SSF	575629.7441	36149
721980.461	4294324.504	9184	21-Dec-13	ALEX122113 (1).SSF	575630.9009	36150
721980.777	4294325.019	10276	21-Dec-13	ALEX122113 (1).SSF	575631.73	36151
721981.319	4294325.818	9259	21-Dec-13	ALEX122113 (1).SSF	575632.9038	36152
721981.827	4294326.452	8854	21-Dec-13	ALEX122113 (1).SSF	575633.8091	36153
721982.183	4294326.832	9353	21-Dec-13	ALEX122113 (1).SSF	575634.8149	36154
721982.276	4294327.162	9778	21-Dec-13	ALEX122113 (1).SSF	575635.7622	36155
721982.422	4294327.72	9074	21-Dec-13	ALEX122113 (1).SSF	575636.8218	36156
721982.701	4294328.305	10177	21-Dec-13	ALEX122113 (1).SSF	575637.6968	36157
721983.192	4294329.163	9432	21-Dec-13	ALEX122113 (1).SSF	575638.8589	36158
721983.477	4294329.762	10248	21-Dec-13	ALEX122113 (1).SSF	575639.731	36159
721983.898	4294330.472	10722	21-Dec-13	ALEX122113 (1).SSF	575640.7769	36160
721984.447	4294331.211	8410	21-Dec-13	ALEX122113 (1).SSF	575641.7822	36161
721985.009	4294331.816	9212	21-Dec-13	ALEX122113 (1).SSF	575642.853	36162
721985.322	4294332.102	7703	21-Dec-13	ALEX122113 (1).SSF	575643.7842	36163
721985.544	4294332.327	7955	21-Dec-13	ALEX122113 (1).SSF	575644.8101	36164
721985.675	4294332.532	8199	21-Dec-13	ALEX122113 (1).SSF	575645.7412	36165
721985.847	4294332.696	8679	21-Dec-13	ALEX122113 (1).SSF	575646.8682	36166
721985.801	4294332.735	9280	21-Dec-13	ALEX122113 (1).SSF	575647.7681	36167
721985.718	4294332.735	9010	21-Dec-13	ALEX122113 (1).SSF	575648.7749	36168

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721985.677	4294332.662	8972	21-Dec-13	ALEX122113 (1).SSF	575649.7192	36169
721985.68	4294332.576	9953	21-Dec-13	ALEX122113 (1).SSF	575650.7871	36170
721985.702	4294332.502	8428	21-Dec-13	ALEX122113 (1).SSF	575651.7139	36171
721985.708	4294332.478	9187	21-Dec-13	ALEX122113 (1).SSF	575652.8408	36172
721985.688	4294332.468	8656	21-Dec-13	ALEX122113 (1).SSF	575653.729	36173
721985.67	4294332.433	9724	21-Dec-13	ALEX122113 (1).SSF	575654.875	36174
721985.663	4294332.384	8551	21-Dec-13	ALEX122113 (1).SSF	575655.8481	36175
721985.657	4294332.329	8287	21-Dec-13	ALEX122113 (1).SSF	575656.8599	36176
721985.635	4294332.265	8462	21-Dec-13	ALEX122113 (1).SSF	575657.8428	36177
721985.632	4294332.243	8835	21-Dec-13	ALEX122113 (1).SSF	575658.8408	36178
721985.649	4294332.171	9648	21-Dec-13	ALEX122113 (1).SSF	575659.7559	36179
721985.672	4294332.076	8562	21-Dec-13	ALEX122113 (1).SSF	575660.8462	36180
721985.702	4294332.146	8650	21-Dec-13	ALEX122113 (1).SSF	575661.7549	36181
721985.768	4294332.283	8762	21-Dec-13	ALEX122113 (1).SSF	575662.8911	36182
721985.812	4294332.345	8970	21-Dec-13	ALEX122113 (1).SSF	575663.7251	36183
721985.88	4294332.47	8422	21-Dec-13	ALEX122113 (1).SSF	575664.8462	36184
721985.913	4294332.567	8765	21-Dec-13	ALEX122113 (1).SSF	575665.7358	36185
721985.899	4294332.544	8941	21-Dec-13	ALEX122113 (1).SSF	575666.875	36186
721985.884	4294332.505	8865	21-Dec-13	ALEX122113 (1).SSF	575667.7651	36187
721985.873	4294332.45	8696	21-Dec-13	ALEX122113 (1).SSF	575668.7822	36188
721985.851	4294332.394	8684	21-Dec-13	ALEX122113 (1).SSF	575669.7051	36189
721985.819	4294332.374	8921	21-Dec-13	ALEX122113 (1).SSF	575670.896	36190
721985.777	4294332.367	8200	21-Dec-13	ALEX122113 (1).SSF	575671.8149	36191
721985.726	4294332.315	8920	21-Dec-13	ALEX122113 (1).SSF	575672.8018	36192
721985.713	4294332.281	8590	21-Dec-13	ALEX122113 (1).SSF	575673.7349	36193
721985.718	4294332.291	8087	21-Dec-13	ALEX122113 (1).SSF	575674.8389	36194
721985.752	4294332.271	7301	21-Dec-13	ALEX122113 (1).SSF	575675.7412	36195
721985.791	4294332.267	7195	21-Dec-13	ALEX122113 (1).SSF	575676.8799	36196
721985.733	4294332.443	7499	21-Dec-13	ALEX122113 (1).SSF	575677.7178	36197
721985.495	4294332.78	8114	21-Dec-13	ALEX122113 (1).SSF	575678.8799	36198
721985.074	4294332.91	8238	21-Dec-13	ALEX122113 (1).SSF	575679.7891	36199
721984.91	4294332.793	9259	21-Dec-13	ALEX122113 (1).SSF	575680.834	36200
721984.989	4294332.658	8404	21-Dec-13	ALEX122113 (1).SSF	575681.79	36201
721985.01	4294332.667	9121	21-Dec-13	ALEX122113 (1).SSF	575682.811	36202
721985.006	4294332.732	7770	21-Dec-13	ALEX122113 (1).SSF	575683.7612	36203
721985.013	4294332.799	8812	21-Dec-13	ALEX122113 (1).SSF	575684.7788	36204
721984.997	4294332.873	8413	21-Dec-13	ALEX122113 (1).SSF	575685.7388	36205
721984.975	4294332.931	8103	21-Dec-13	ALEX122113 (1).SSF	575686.8921	36206
721985.017	4294332.905	8505	21-Dec-13	ALEX122113 (1).SSF	575687.7749	36207
721985.045	4294332.834	8906	21-Dec-13	ALEX122113 (1).SSF	575688.8911	36208
721985.032	4294332.814	8136	21-Dec-13	ALEX122113 (1).SSF	575689.751	36209
721985.026	4294332.817	8094	21-Dec-13	ALEX122113 (1).SSF	575690.7549	36210
721985.025	4294332.81	7813	21-Dec-13	ALEX122113 (1).SSF	575691.689	36211
721985.074	4294332.788	8643	21-Dec-13	ALEX122113 (1).SSF	575692.8179	36212
721985.121	4294332.754	8040	21-Dec-13	ALEX122113 (1).SSF	575693.7041	36213
721985.089	4294332.719	9450	21-Dec-13	ALEX122113 (1).SSF	575694.7251	36214
721985.009	4294332.691	8572	21-Dec-13	ALEX122113 (1).SSF	575695.7959	36215

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721984.966	4294332.67	9523	21-Dec-13	ALEX122113 (1).SSF	575696.875	36216
721984.96	4294332.665	9071	21-Dec-13	ALEX122113 (1).SSF	575697.7871	36217
721984.976	4294332.65	8867	21-Dec-13	ALEX122113 (1).SSF	575698.8071	36218
721984.98	4294332.628	9686	21-Dec-13	ALEX122113 (1).SSF	575699.7261	36219
721984.982	4294332.595	9351	21-Dec-13	ALEX122113 (1).SSF	575700.873	36220
721985	4294332.594	9628	21-Dec-13	ALEX122113 (1).SSF	575701.7271	36221
721985.033	4294332.598	9787	21-Dec-13	ALEX122113 (1).SSF	575702.874	36222
721985.061	4294332.626	8776	21-Dec-13	ALEX122113 (1).SSF	575703.7129	36223
721984.985	4294332.643	8794	21-Dec-13	ALEX122113 (1).SSF	575704.876	36224
721984.909	4294332.624	9188	21-Dec-13	ALEX122113 (1).SSF	575705.7822	36225
721984.896	4294332.578	8777	21-Dec-13	ALEX122113 (1).SSF	575706.8198	36226
721984.91	4294332.567	9664	21-Dec-13	ALEX122113 (1).SSF	575707.7852	36227
721984.908	4294332.573	9016	21-Dec-13	ALEX122113 (1).SSF	575708.9312	36228
721984.916	4294332.58	8734	21-Dec-13	ALEX122113 (1).SSF	575709.7739	36229
721984.898	4294332.586	7643	21-Dec-13	ALEX122113 (1).SSF	575710.8618	36230
721984.86	4294332.585	9411	21-Dec-13	ALEX122113 (1).SSF	575711.7559	36231
721984.777	4294332.591	9102	21-Dec-13	ALEX122113 (1).SSF	575712.8979	36232
721984.706	4294332.637	8935	21-Dec-13	ALEX122113 (1).SSF	575713.73	36233
721984.69	4294332.654	8864	21-Dec-13	ALEX122113 (1).SSF	575714.8521	36234
721984.67	4294332.606	9506	21-Dec-13	ALEX122113 (1).SSF	575715.7461	36235
721984.628	4294332.565	10056	21-Dec-13	ALEX122113 (1).SSF	575716.8149	36236
721984.724	4294332.521	9234	21-Dec-13	ALEX122113 (1).SSF	575717.7368	36237
721984.835	4294332.475	8878	21-Dec-13	ALEX122113 (1).SSF	575718.814	36238
721984.814	4294332.56	8309	21-Dec-13	ALEX122113 (1).SSF	575719.6768	36239
721984.738	4294332.652	9637	21-Dec-13	ALEX122113 (1).SSF	575720.8301	36240
721984.754	4294332.678	8469	21-Dec-13	ALEX122113 (1).SSF	575721.793	36241
721984.785	4294332.683	8717	21-Dec-13	ALEX122113 (1).SSF	575722.835	36242
721984.786	4294332.693	8899	21-Dec-13	ALEX122113 (1).SSF	575723.752	36243
721984.792	4294332.705	8194	21-Dec-13	ALEX122113 (1).SSF	575724.8828	36244
721984.837	4294332.699	9278	21-Dec-13	ALEX122113 (1).SSF	575725.666	36245
721984.85	4294332.681	8619	21-Dec-13	ALEX122113 (1).SSF	575726.8262	36246
721984.766	4294332.699	8695	21-Dec-13	ALEX122113 (1).SSF	575727.7412	36247
721984.601	4294332.544	8353	21-Dec-13	ALEX122113 (1).SSF	575728.8281	36248
721984.551	4294332.427	8838	21-Dec-13	ALEX122113 (1).SSF	575729.665	36249
721984.596	4294332.385	8809	21-Dec-13	ALEX122113 (1).SSF	575730.8071	36250
721984.64	4294332.395	8112	21-Dec-13	ALEX122113 (1).SSF	575731.6968	36251
721984.651	4294332.399	8988	21-Dec-13	ALEX122113 (1).SSF	575732.7842	36252
721984.685	4294332.412	8727	21-Dec-13	ALEX122113 (1).SSF	575733.6851	36253
721984.601	4294332.312	8751	21-Dec-13	ALEX122113 (1).SSF	575734.7969	36254
721984.317	4294331.921	9058	21-Dec-13	ALEX122113 (1).SSF	575735.7388	36255
721983.828	4294331.212	9374	21-Dec-13	ALEX122113 (1).SSF	575736.8398	36256
721983.432	4294330.629	9453	21-Dec-13	ALEX122113 (1).SSF	575737.7349	36257
721983.037	4294330.078	8903	21-Dec-13	ALEX122113 (1).SSF	575738.8452	36258
721982.598	4294329.676	8075	21-Dec-13	ALEX122113 (1).SSF	575739.7642	36259
721982.077	4294329.051	8499	21-Dec-13	ALEX122113 (1).SSF	575740.7959	36260
721981.688	4294328.421	9114	21-Dec-13	ALEX122113 (1).SSF	575741.7241	36261
721981.336	4294327.885	9478	21-Dec-13	ALEX122113 (1).SSF	575742.751	36262

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721980.948	4294327.342	8429	21-Dec-13	ALEX122113 (1).SSF	575743.7109	36263
721980.433	4294326.608	9997	21-Dec-13	ALEX122113 (1).SSF	575744.751	36264
721979.924	4294325.891	9159	21-Dec-13	ALEX122113 (1).SSF	575745.8081	36265
721979.496	4294325.273	9399	21-Dec-13	ALEX122113 (1).SSF	575746.8271	36266
721979.082	4294324.676	9430	21-Dec-13	ALEX122113 (1).SSF	575747.7681	36267
721978.656	4294323.915	9197	21-Dec-13	ALEX122113 (1).SSF	575748.8442	36268
721978.341	4294323.407	9619	21-Dec-13	ALEX122113 (1).SSF	575749.7788	36269
721977.902	4294322.959	9334	21-Dec-13	ALEX122113 (1).SSF	575750.8481	36270
721977.469	4294322.447	8993	21-Dec-13	ALEX122113 (1).SSF	575751.7471	36271
721976.97	4294321.694	10558	21-Dec-13	ALEX122113 (1).SSF	575752.855	36272
721976.63	4294321.208	8939	21-Dec-13	ALEX122113 (1).SSF	575753.748	36273
721976.287	4294320.589	8985	21-Dec-13	ALEX122113 (1).SSF	575754.8521	36274
721975.939	4294320.031	9266	21-Dec-13	ALEX122113 (1).SSF	575755.77	36275
721975.497	4294319.498	9816	21-Dec-13	ALEX122113 (1).SSF	575756.8081	36276
721975.108	4294318.972	9924	21-Dec-13	ALEX122113 (1).SSF	575757.731	36277
721974.658	4294318.261	9681	21-Dec-13	ALEX122113 (1).SSF	575758.7632	36278
721974.282	4294317.685	10040	21-Dec-13	ALEX122113 (1).SSF	575759.6938	36279
721973.875	4294317.019	10730	21-Dec-13	ALEX122113 (1).SSF	575760.8979	36280
721973.461	4294316.327	10812	21-Dec-13	ALEX122113 (1).SSF	575761.8311	36281
721972.9	4294315.46	10413	21-Dec-13	ALEX122113 (1).SSF	575762.9009	36282
721972.492	4294314.917	10133	21-Dec-13	ALEX122113 (1).SSF	575763.8008	36283
721972.143	4294314.503	9223	21-Dec-13	ALEX122113 (1).SSF	575764.8418	36284
721971.835	4294314.088	9446	21-Dec-13	ALEX122113 (1).SSF	575765.7769	36285
721971.327	4294313.414	9051	21-Dec-13	ALEX122113 (1).SSF	575766.8799	36286
721970.875	4294312.711	9702	21-Dec-13	ALEX122113 (1).SSF	575767.8169	36287
721970.419	4294311.969	8395	21-Dec-13	ALEX122113 (1).SSF	575768.8999	36288
721969.903	4294311.364	10499	21-Dec-13	ALEX122113 (1).SSF	575769.8198	36289
721969.299	4294310.613	8894	21-Dec-13	ALEX122113 (1).SSF	575770.8408	36290
721968.903	4294310.031	10353	21-Dec-13	ALEX122113 (1).SSF	575771.7661	36291
721968.537	4294309.568	8828	21-Dec-13	ALEX122113 (1).SSF	575772.7671	36292
721968.118	4294309.019	9947	21-Dec-13	ALEX122113 (1).SSF	575773.7671	36293
721967.7	4294308.267	9416	21-Dec-13	ALEX122113 (1).SSF	575774.77	36294
721967.288	4294307.488	9074	21-Dec-13	ALEX122113 (1).SSF	575775.772	36295
721966.857	4294306.864	10038	21-Dec-13	ALEX122113 (1).SSF	575776.7861	36296
721966.576	4294306.437	10369	21-Dec-13	ALEX122113 (1).SSF	575777.6948	36297
721966.231	4294305.755	8922	21-Dec-13	ALEX122113 (1).SSF	575778.8091	36298
721965.756	4294305.01	10330	21-Dec-13	ALEX122113 (1).SSF	575779.7588	36299
721965.198	4294304.329	10412	21-Dec-13	ALEX122113 (1).SSF	575780.835	36300
721964.867	4294303.897	10433	21-Dec-13	ALEX122113 (1).SSF	575781.7769	36301
721964.595	4294303.283	10648	21-Dec-13	ALEX122113 (1).SSF	575782.8218	36302
721964.281	4294302.5	9142	21-Dec-13	ALEX122113 (1).SSF	575783.7622	36303
721963.736	4294301.696	8525	21-Dec-13	ALEX122113 (1).SSF	575784.8721	36304
721963.407	4294301.3	8491	21-Dec-13	ALEX122113 (1).SSF	575785.6538	36305
721963.039	4294300.811	9622	21-Dec-13	ALEX122113 (1).SSF	575786.7759	36306
721962.776	4294300.424	7985	21-Dec-13	ALEX122113 (1).SSF	575787.6812	36307
721962.367	4294299.899	7966	21-Dec-13	ALEX122113 (1).SSF	575788.7939	36308
721961.906	4294299.334	8771	21-Dec-13	ALEX122113 (1).SSF	575789.7021	36309

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721961.245	4294298.372	7773	21-Dec-13	ALEX122113 (1).SSF	575790.8442	36310
721960.807	4294297.68	8093	21-Dec-13	ALEX122113 (1).SSF	575791.7402	36311
721960.248	4294297.063	8113	21-Dec-13	ALEX122113 (1).SSF	575792.8491	36312
721959.747	4294296.488	7608	21-Dec-13	ALEX122113 (1).SSF	575793.7432	36313
721959.189	4294295.726	8682	21-Dec-13	ALEX122113 (1).SSF	575794.7949	36314
721958.835	4294295.171	8020	21-Dec-13	ALEX122113 (1).SSF	575795.6938	36315
721958.599	4294294.627	8395	21-Dec-13	ALEX122113 (1).SSF	575796.7871	36316
721958.348	4294294.053	8068	21-Dec-13	ALEX122113 (1).SSF	575797.7388	36317
721957.875	4294293.216	8197	21-Dec-13	ALEX122113 (1).SSF	575798.9048	36318
721957.564	4294292.724	7599	21-Dec-13	ALEX122113 (1).SSF	575799.7388	36319
721957.135	4294292.171	7839	21-Dec-13	ALEX122113 (1).SSF	575800.752	36320
721956.762	4294291.697	7960	21-Dec-13	ALEX122113 (1).SSF	575801.7549	36321
721956.549	4294291.306	8020	21-Dec-13	ALEX122113 (1).SSF	575802.833	36322
721956.35	4294290.945	7915	21-Dec-13	ALEX122113 (1).SSF	575803.731	36323
721955.945	4294290.32	6898	21-Dec-13	ALEX122113 (1).SSF	575804.7671	36324
721955.456	4294289.712	6164	21-Dec-13	ALEX122113 (1).SSF	575805.7412	36325
721954.942	4294289.141	6131	21-Dec-13	ALEX122113 (1).SSF	575806.8462	36326
721954.535	4294288.538	6002	21-Dec-13	ALEX122113 (1).SSF	575807.7529	36327
721953.907	4294287.764	6031	21-Dec-13	ALEX122113 (1).SSF	575808.8628	36328
721953.451	4294287.175	5897	21-Dec-13	ALEX122113 (1).SSF	575809.8008	36329
721953.108	4294286.547	5604	21-Dec-13	ALEX122113 (1).SSF	575810.751	36330
721952.717	4294285.888	5971	21-Dec-13	ALEX122113 (1).SSF	575811.6938	36331
721952.242	4294285.321	5796	21-Dec-13	ALEX122113 (1).SSF	575812.749	36332
721951.974	4294284.868	5637	21-Dec-13	ALEX122113 (1).SSF	575813.6699	36333
721951.619	4294284.22	5775	21-Dec-13	ALEX122113 (1).SSF	575814.7251	36334
721951.118	4294283.613	5933	21-Dec-13	ALEX122113 (1).SSF	575815.7749	36335
721950.649	4294282.99	6007	21-Dec-13	ALEX122113 (1).SSF	575816.7969	36336
721950.32	4294282.464	5876	21-Dec-13	ALEX122113 (1).SSF	575817.73	36337
721949.973	4294282.051	6260	21-Dec-13	ALEX122113 (1).SSF	575818.8511	36338
721949.828	4294282.079	7265	21-Dec-13	ALEX122113 (1).SSF	575819.7808	36339
721949.767	4294282.158	6256	21-Dec-13	ALEX122113 (1).SSF	575820.7471	36340
721949.816	4294282.113	6574	21-Dec-13	ALEX122113 (1).SSF	575821.644	36341
721949.841	4294281.885	6293	21-Dec-13	ALEX122113 (1).SSF	575822.751	36342
721949.867	4294281.731	6140	21-Dec-13	ALEX122113 (1).SSF	575823.645	36343
721949.857	4294281.611	6365	21-Dec-13	ALEX122113 (1).SSF	575824.749	36344
721949.696	4294281.606	6541	21-Dec-13	ALEX122113 (1).SSF	575825.7349	36345
721949.356	4294281.686	6885	21-Dec-13	ALEX122113 (1).SSF	575826.8569	36346
721949.118	4294281.781	6131	21-Dec-13	ALEX122113 (1).SSF	575827.709	36347
721948.791	4294281.888	6483	21-Dec-13	ALEX122113 (1).SSF	575828.8169	36348
721948.614	4294282.025	6990	21-Dec-13	ALEX122113 (1).SSF	575829.7402	36349
721948.34	4294282.003	6397	21-Dec-13	ALEX122113 (1).SSF	575830.835	36350
721948.231	4294281.985	6119	21-Dec-13	ALEX122113 (1).SSF	575831.709	36351
721948.169	4294281.988	6329	21-Dec-13	ALEX122113 (1).SSF	575832.812	36352
721948.166	4294282.022	6303	21-Dec-13	ALEX122113 (1).SSF	575833.7119	36353
721948.156	4294282.052	5925	21-Dec-13	ALEX122113 (1).SSF	575834.812	36354
721948.124	4294282.104	6123	21-Dec-13	ALEX122113 (1).SSF	575835.7241	36355
721947.948	4294282.173	6241	21-Dec-13	ALEX122113 (1).SSF	575836.8242	36356

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721947.818	4294282.23	5805	21-Dec-13	ALEX122113 (1).SSF	575837.7261	36357
721947.787	4294282.38	5853	21-Dec-13	ALEX122113 (1).SSF	575838.7749	36358
721947.754	4294282.441	6007	21-Dec-13	ALEX122113 (1).SSF	575839.7212	36359
721947.553	4294282.412	5462	21-Dec-13	ALEX122113 (1).SSF	575840.855	36360
721947.451	4294282.274	6518	21-Dec-13	ALEX122113 (1).SSF	575841.7949	36361
721947.329	4294282.033	6879	21-Dec-13	ALEX122113 (1).SSF	575842.8081	36362
721947.071	4294281.846	6790	21-Dec-13	ALEX122113 (1).SSF	575843.7979	36363
721946.807	4294281.827	6017	21-Dec-13	ALEX122113 (1).SSF	575844.7969	36364
721946.597	4294281.424	6006	21-Dec-13	ALEX122113 (1).SSF	575845.749	36365
721946.788	4294280.575	6296	21-Dec-13	ALEX122113 (1).SSF	575846.75	36366
721947.143	4294279.893	6494	21-Dec-13	ALEX122113 (1).SSF	575847.75	36367
721947.346	4294279.491	6273	21-Dec-13	ALEX122113 (1).SSF	575848.7642	36368
721947.281	4294279.385	6908	21-Dec-13	ALEX122113 (1).SSF	575849.6631	36369
721947.236	4294279.599	6887	21-Dec-13	ALEX122113 (1).SSF	575850.751	36370
721947.162	4294279.979	6911	21-Dec-13	ALEX122113 (1).SSF	575851.6631	36371
721946.904	4294280.265	7068	21-Dec-13	ALEX122113 (1).SSF	575852.728	36372
721947.008	4294280.264	6807	21-Dec-13	ALEX122113 (1).SSF	575853.6699	36373
721947.356	4294280.256	6591	21-Dec-13	ALEX122113 (1).SSF	575854.7778	36374
721947.492	4294280.333	6238	21-Dec-13	ALEX122113 (1).SSF	575855.728	36375
721947.464	4294280.432	6524	21-Dec-13	ALEX122113 (1).SSF	575856.7998	36376
721947.408	4294280.387	6581	21-Dec-13	ALEX122113 (1).SSF	575857.7139	36377
721947.22	4294280.453	6895	21-Dec-13	ALEX122113 (1).SSF	575858.8242	36378
721946.883	4294280.645	6373	21-Dec-13	ALEX122113 (1).SSF	575859.7422	36379
721946.577	4294281.106	6303	21-Dec-13	ALEX122113 (1).SSF	575860.8062	36380
721946.898	4294281.477	5723	21-Dec-13	ALEX122113 (1).SSF	575861.7378	36381
721947.698	4294281.803	5791	21-Dec-13	ALEX122113 (1).SSF	575862.8242	36382
721948.405	4294282.021	5636	21-Dec-13	ALEX122113 (1).SSF	575863.6338	36383
721949.197	4294282.138	6073	21-Dec-13	ALEX122113 (1).SSF	575864.8071	36384
721949.399	4294282.497	5928	21-Dec-13	ALEX122113 (1).SSF	575865.7402	36385
721949.568	4294282.973	6423	21-Dec-13	ALEX122113 (1).SSF	575866.7861	36386
721949.848	4294283.411	6195	21-Dec-13	ALEX122113 (1).SSF	575867.7061	36387
721950.209	4294284.058	6018	21-Dec-13	ALEX122113 (1).SSF	575868.8149	36388
721950.645	4294284.668	6037	21-Dec-13	ALEX122113 (1).SSF	575869.707	36389
721951.234	4294285.59	6058	21-Dec-13	ALEX122113 (1).SSF	575870.8311	36390
721951.515	4294286.217	5920	21-Dec-13	ALEX122113 (1).SSF	575871.7461	36391
721951.818	4294286.858	6045	21-Dec-13	ALEX122113 (1).SSF	575872.8071	36392
721952.146	4294287.599	6197	21-Dec-13	ALEX122113 (1).SSF	575873.7578	36393
721952.513	4294288.281	6289	21-Dec-13	ALEX122113 (1).SSF	575874.7969	36394
721952.786	4294288.742	6093	21-Dec-13	ALEX122113 (1).SSF	575875.6699	36395
721953.014	4294289.279	5630	21-Dec-13	ALEX122113 (1).SSF	575876.6958	36396
721953.101	4294289.625	6159	21-Dec-13	ALEX122113 (1).SSF	575877.6729	36397
721953.151	4294289.723	6189	21-Dec-13	ALEX122113 (1).SSF	575878.7378	36398
721953.189	4294289.746	5876	21-Dec-13	ALEX122113 (1).SSF	575879.6079	36399
721953.226	4294289.782	6388	21-Dec-13	ALEX122113 (1).SSF	575880.8032	36400
721953.24	4294289.807	6637	21-Dec-13	ALEX122113 (1).SSF	575881.7129	36401
721953.258	4294289.858	5834	21-Dec-13	ALEX122113 (1).SSF	575882.9448	36402
721953.302	4294289.851	6027	21-Dec-13	ALEX122113 (1).SSF	575883.7148	36403

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721953.29	4294289.983	6068	21-Dec-13	ALEX122113 (1).SSF	575884.7212	36404
721953.326	4294290.295	6407	21-Dec-13	ALEX122113 (1).SSF	575885.707	36405
721953.587	4294290.691	6731	21-Dec-13	ALEX122113 (1).SSF	575886.811	36406
721953.815	4294291.103	6423	21-Dec-13	ALEX122113 (1).SSF	575887.709	36407
721954.095	4294291.755	6353	21-Dec-13	ALEX122113 (1).SSF	575888.793	36408
721954.415	4294292.235	6868	21-Dec-13	ALEX122113 (1).SSF	575889.71	36409
721954.717	4294292.657	6727	21-Dec-13	ALEX122113 (1).SSF	575890.707	36410
721954.995	4294293.207	6661	21-Dec-13	ALEX122113 (1).SSF	575891.688	36411
721955.321	4294293.733	7335	21-Dec-13	ALEX122113 (1).SSF	575892.7031	36412
721955.711	4294294.14	9423	21-Dec-13	ALEX122113 (1).SSF	575893.7012	36413
721956.196	4294294.743	9136	21-Dec-13	ALEX122113 (1).SSF	575894.6982	36414
721956.787	4294295.496	10054	21-Dec-13	ALEX122113 (1).SSF	575895.7212	36415
721957.293	4294296.164	9833	21-Dec-13	ALEX122113 (1).SSF	575896.7158	36416
721957.559	4294296.634	9448	21-Dec-13	ALEX122113 (1).SSF	575897.7329	36417
721957.835	4294297.076	10372	21-Dec-13	ALEX122113 (1).SSF	575898.7622	36418
721958.194	4294297.547	9523	21-Dec-13	ALEX122113 (1).SSF	575899.6968	36419
721958.687	4294298.116	8470	21-Dec-13	ALEX122113 (1).SSF	575900.771	36420
721959.079	4294298.618	8747	21-Dec-13	ALEX122113 (1).SSF	575901.7231	36421
721959.429	4294298.962	7706	21-Dec-13	ALEX122113 (1).SSF	575902.771	36422
721959.726	4294299.198	6576	21-Dec-13	ALEX122113 (1).SSF	575903.6768	36423
721960.072	4294299.732	6144	21-Dec-13	ALEX122113 (1).SSF	575904.8091	36424
721960.459	4294300.364	7356	21-Dec-13	ALEX122113 (1).SSF	575905.7061	36425
721960.937	4294301.117	8049	21-Dec-13	ALEX122113 (1).SSF	575906.8179	36426
721961.168	4294301.515	8702	21-Dec-13	ALEX122113 (1).SSF	575907.688	36427
721961.457	4294302.045	8685	21-Dec-13	ALEX122113 (1).SSF	575908.7559	36428
721961.764	4294302.832	8141	21-Dec-13	ALEX122113 (1).SSF	575909.7041	36429
721962.171	4294303.699	8005	21-Dec-13	ALEX122113 (1).SSF	575910.7632	36430
721962.624	4294304.46	9111	21-Dec-13	ALEX122113 (1).SSF	575911.749	36431
721963.127	4294305.204	8967	21-Dec-13	ALEX122113 (1).SSF	575912.8071	36432
721963.492	4294305.702	10492	21-Dec-13	ALEX122113 (1).SSF	575913.6909	36433
721963.824	4294306.293	9823	21-Dec-13	ALEX122113 (1).SSF	575914.833	36434
721963.975	4294306.74	9085	21-Dec-13	ALEX122113 (1).SSF	575915.6738	36435
721964.199	4294307.329	9051	21-Dec-13	ALEX122113 (1).SSF	575916.7368	36436
721964.484	4294307.869	8862	21-Dec-13	ALEX122113 (1).SSF	575917.6802	36437
721964.929	4294308.459	9595	21-Dec-13	ALEX122113 (1).SSF	575918.7402	36438
721965.416	4294309.015	11159	21-Dec-13	ALEX122113 (1).SSF	575919.6958	36439
721965.918	4294309.604	9839	21-Dec-13	ALEX122113 (1).SSF	575920.7422	36440
721966.328	4294310.214	10080	21-Dec-13	ALEX122113 (1).SSF	575921.7349	36441
721966.672	4294310.657	10290	21-Dec-13	ALEX122113 (1).SSF	575922.8018	36442
721966.917	4294311.035	10102	21-Dec-13	ALEX122113 (1).SSF	575923.7441	36443
721967.072	4294311.367	10865	21-Dec-13	ALEX122113 (1).SSF	575924.77	36444
721967.236	4294311.669	10486	21-Dec-13	ALEX122113 (1).SSF	575925.666	36445
721967.503	4294312.009	9671	21-Dec-13	ALEX122113 (1).SSF	575926.7549	36446
721967.736	4294312.386	10038	21-Dec-13	ALEX122113 (1).SSF	575927.7241	36447
721967.916	4294312.796	8749	21-Dec-13	ALEX122113 (1).SSF	575928.7012	36448
721968.149	4294313.151	9447	21-Dec-13	ALEX122113 (1).SSF	575929.666	36449
721968.461	4294313.609	10012	21-Dec-13	ALEX122113 (1).SSF	575930.7632	36450

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721968.735	4294314.105	8923	21-Dec-13	ALEX122113 (1).SSF	575931.6929	36451
721969.136	4294314.759	10840	21-Dec-13	ALEX122113 (1).SSF	575932.8262	36452
721969.498	4294315.265	9850	21-Dec-13	ALEX122113 (1).SSF	575933.7598	36453
721970.003	4294315.908	9272	21-Dec-13	ALEX122113 (1).SSF	575934.7778	36454
721970.562	4294316.461	8438	21-Dec-13	ALEX122113 (1).SSF	575935.6528	36455
721971.25	4294317.301	9429	21-Dec-13	ALEX122113 (1).SSF	575936.7559	36456
721971.67	4294317.928	9017	21-Dec-13	ALEX122113 (1).SSF	575937.6572	36457
721972.087	4294318.557	9424	21-Dec-13	ALEX122113 (1).SSF	575938.7588	36458
721972.366	4294318.947	8972	21-Dec-13	ALEX122113 (1).SSF	575939.6919	36459
721972.685	4294319.293	8951	21-Dec-13	ALEX122113 (1).SSF	575940.7881	36460
721972.9	4294319.632	9858	21-Dec-13	ALEX122113 (1).SSF	575941.6689	36461
721973.237	4294320.105	9364	21-Dec-13	ALEX122113 (1).SSF	575942.7949	36462
721973.613	4294320.685	9871	21-Dec-13	ALEX122113 (1).SSF	575943.7358	36463
721974.179	4294321.382	9517	21-Dec-13	ALEX122113 (1).SSF	575944.7412	36464
721974.84	4294322.135	9279	21-Dec-13	ALEX122113 (1).SSF	575945.687	36465
721975.534	4294322.892	9220	21-Dec-13	ALEX122113 (1).SSF	575946.7832	36466
721975.897	4294323.36	9715	21-Dec-13	ALEX122113 (1).SSF	575947.667	36467
721976.192	4294323.953	9448	21-Dec-13	ALEX122113 (1).SSF	575948.7441	36468
721976.472	4294324.399	9532	21-Dec-13	ALEX122113 (1).SSF	575949.7109	36469
721976.826	4294325.055	9673	21-Dec-13	ALEX122113 (1).SSF	575950.7231	36470
721977.26	4294325.751	9468	21-Dec-13	ALEX122113 (1).SSF	575951.644	36471
721977.8	4294326.602	9567	21-Dec-13	ALEX122113 (1).SSF	575952.7251	36472
721978.2	4294327.145	8991	21-Dec-13	ALEX122113 (1).SSF	575953.6118	36473
721978.707	4294327.701	8548	21-Dec-13	ALEX122113 (1).SSF	575954.7529	36474
721979.004	4294328.094	8707	21-Dec-13	ALEX122113 (1).SSF	575955.5962	36475
721979.333	4294328.594	9226	21-Dec-13	ALEX122113 (1).SSF	575956.6968	36476
721979.691	4294329.138	9506	21-Dec-13	ALEX122113 (1).SSF	575957.584	36477
721980.276	4294329.861	9246	21-Dec-13	ALEX122113 (1).SSF	575958.6719	36478
721980.826	4294330.6	8701	21-Dec-13	ALEX122113 (1).SSF	575959.584	36479
721981.49	4294331.531	8475	21-Dec-13	ALEX122113 (1).SSF	575960.748	36480
721981.942	4294332.078	8718	21-Dec-13	ALEX122113 (1).SSF	575961.7051	36481
721982.309	4294332.446	8329	21-Dec-13	ALEX122113 (1).SSF	575962.7339	36482
721982.577	4294332.749	10002	21-Dec-13	ALEX122113 (1).SSF	575963.6919	36483
721982.886	4294333.178	8530	21-Dec-13	ALEX122113 (1).SSF	575964.731	36484
721983.177	4294333.509	8072	21-Dec-13	ALEX122113 (1).SSF	575965.667	36485
721983.587	4294333.918	8708	21-Dec-13	ALEX122113 (1).SSF	575966.7412	36486
721984	4294334.309	8297	21-Dec-13	ALEX122113 (1).SSF	575967.6792	36487
721984.327	4294334.806	8884	21-Dec-13	ALEX122113 (1).SSF	575968.7358	36488
721984.298	4294335.253	10891	21-Dec-13	ALEX122113 (1).SSF	575969.667	36489
721984.018	4294335.824	10102	21-Dec-13	ALEX122113 (1).SSF	575970.7632	36490
721983.63	4294336.133	9275	21-Dec-13	ALEX122113 (1).SSF	575971.689	36491
721983.341	4294336.135	9129	21-Dec-13	ALEX122113 (1).SSF	575972.8198	36492
721983.364	4294335.948	9212	21-Dec-13	ALEX122113 (1).SSF	575973.6948	36493
721983.462	4294335.795	9113	21-Dec-13	ALEX122113 (1).SSF	575974.8418	36494
721983.444	4294335.775	8518	21-Dec-13	ALEX122113 (1).SSF	575975.6538	36495
721983.361	4294335.762	9809	21-Dec-13	ALEX122113 (1).SSF	575976.6572	36496
721983.28	4294335.742	9802	21-Dec-13	ALEX122113 (1).SSF	575977.7021	36497

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721983.229	4294335.709	9620	21-Dec-13	ALEX122113 (1).SSF	575978.7139	36498
721983.2	4294335.652	9215	21-Dec-13	ALEX122113 (1).SSF	575979.6611	36499
721983.166	4294335.613	9503	21-Dec-13	ALEX122113 (1).SSF	575980.7568	36500
721983.029	4294335.675	9096	21-Dec-13	ALEX122113 (1).SSF	575981.647	36501
721982.849	4294335.833	9834	21-Dec-13	ALEX122113 (1).SSF	575982.749	36502
721982.753	4294335.733	9928	21-Dec-13	ALEX122113 (1).SSF	575983.687	36503
721982.625	4294335.298	8752	21-Dec-13	ALEX122113 (1).SSF	575984.7739	36504
721982.396	4294334.8	8848	21-Dec-13	ALEX122113 (1).SSF	575985.6768	36505
721981.959	4294334.116	9442	21-Dec-13	ALEX122113 (1).SSF	575986.7778	36506
721981.512	4294333.527	9710	21-Dec-13	ALEX122113 (1).SSF	575987.6548	36507
721981.06	4294332.924	9807	21-Dec-13	ALEX122113 (1).SSF	575988.771	36508
721980.799	4294332.574	9262	21-Dec-13	ALEX122113 (1).SSF	575989.6968	36509
721980.4	4294332.171	7895	21-Dec-13	ALEX122113 (1).SSF	575990.729	36510
721979.985	4294331.647	9773	21-Dec-13	ALEX122113 (1).SSF	575991.6392	36511
721979.557	4294331.027	9373	21-Dec-13	ALEX122113 (1).SSF	575992.7622	36512
721979.346	4294330.659	10113	21-Dec-13	ALEX122113 (1).SSF	575993.6758	36513
721979.139	4294330.248	9098	21-Dec-13	ALEX122113 (1).SSF	575994.7168	36514
721978.893	4294329.854	9444	21-Dec-13	ALEX122113 (1).SSF	575995.623	36515
721978.463	4294329.172	9351	21-Dec-13	ALEX122113 (1).SSF	575996.7212	36516
721978.074	4294328.621	9777	21-Dec-13	ALEX122113 (1).SSF	575997.5859	36517
721977.559	4294327.928	9494	21-Dec-13	ALEX122113 (1).SSF	575998.749	36518
721977.221	4294327.315	10503	21-Dec-13	ALEX122113 (1).SSF	575999.624	36519
721976.802	4294326.488	11235	21-Dec-13	ALEX122113 (1).SSF	576000.7451	36520
721976.484	4294325.979	9768	21-Dec-13	ALEX122113 (1).SSF	576001.582	36521
721976.059	4294325.232	9642	21-Dec-13	ALEX122113 (1).SSF	576002.7002	36522
721975.679	4294324.632	9160	21-Dec-13	ALEX122113 (1).SSF	576003.6221	36523
721975.224	4294324.058	8500	21-Dec-13	ALEX122113 (1).SSF	576004.7251	36524
721974.894	4294323.63	9355	21-Dec-13	ALEX122113 (1).SSF	576005.6729	36525
721974.418	4294322.975	10108	21-Dec-13	ALEX122113 (1).SSF	576006.7651	36526
721973.918	4294322.203	9757	21-Dec-13	ALEX122113 (1).SSF	576007.7041	36527
721973.452	4294321.534	9849	21-Dec-13	ALEX122113 (1).SSF	576008.7808	36528
721973.154	4294321.215	8852	21-Dec-13	ALEX122113 (1).SSF	576009.6958	36529
721972.884	4294320.909	9023	21-Dec-13	ALEX122113 (1).SSF	576010.7891	36530
721972.796	4294320.798	9545	21-Dec-13	ALEX122113 (1).SSF	576011.707	36531
721972.695	4294320.732	8056	21-Dec-13	ALEX122113 (1).SSF	576012.7988	36532
721972.682	4294320.655	9484	21-Dec-13	ALEX122113 (1).SSF	576013.709	36533
721972.585	4294320.592	9121	21-Dec-13	ALEX122113 (1).SSF	576014.7871	36534
721972.489	4294320.682	10050	21-Dec-13	ALEX122113 (1).SSF	576015.5771	36535
721972.442	4294320.543	9502	21-Dec-13	ALEX122113 (1).SSF	576016.7222	36536
721972.559	4294320.224	9545	21-Dec-13	ALEX122113 (1).SSF	576017.6069	36537
721972.668	4294320.034	9976	21-Dec-13	ALEX122113 (1).SSF	576018.6602	36538
721972.674	4294320.09	9274	21-Dec-13	ALEX122113 (1).SSF	576019.6069	36539
721972.664	4294320.216	9458	21-Dec-13	ALEX122113 (1).SSF	576020.7202	36540
721972.66	4294320.148	10374	21-Dec-13	ALEX122113 (1).SSF	576021.6479	36541
721972.694	4294320.118	9253	21-Dec-13	ALEX122113 (1).SSF	576022.7979	36542
721972.712	4294320.187	7863	21-Dec-13	ALEX122113 (1).SSF	576023.6509	36543
721972.708	4294320.248	8745	21-Dec-13	ALEX122113 (1).SSF	576024.7998	36544

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721972.69	4294320.273	8006	21-Dec-13	ALEX122113 (1).SSF	576025.5771	36545
721972.679	4294320.204	8721	21-Dec-13	ALEX122113 (1).SSF	576026.6729	36546
721972.691	4294320.053	9590	21-Dec-13	ALEX122113 (1).SSF	576027.625	36547
721972.728	4294319.966	9567	21-Dec-13	ALEX122113 (1).SSF	576028.6992	36548
721972.736	4294319.966	9202	21-Dec-13	ALEX122113 (1).SSF	576029.582	36549
721972.72	4294320.008	8690	21-Dec-13	ALEX122113 (1).SSF	576030.6968	36550
721972.705	4294320.082	10152	21-Dec-13	ALEX122113 (1).SSF	576031.6479	36551
721972.656	4294320.208	8388	21-Dec-13	ALEX122113 (1).SSF	576032.7192	36552
721972.639	4294320.313	9417	21-Dec-13	ALEX122113 (1).SSF	576033.6201	36553
721972.628	4294320.323	8924	21-Dec-13	ALEX122113 (1).SSF	576034.7031	36554
721972.61	4294320.288	7511	21-Dec-13	ALEX122113 (1).SSF	576035.7148	36555
721972.585	4294320.289	8837	21-Dec-13	ALEX122113 (1).SSF	576036.7388	36556
721972.564	4294320.303	9199	21-Dec-13	ALEX122113 (1).SSF	576037.6572	36557
721972.534	4294320.248	9499	21-Dec-13	ALEX122113 (1).SSF	576038.7949	36558
721972.554	4294320.256	9605	21-Dec-13	ALEX122113 (1).SSF	576039.7109	36559
721972.586	4294320.254	10051	21-Dec-13	ALEX122113 (1).SSF	576040.7451	36560
721972.612	4294320.239	9832	21-Dec-13	ALEX122113 (1).SSF	576041.6519	36561
721972.621	4294320.231	10438	21-Dec-13	ALEX122113 (1).SSF	576042.7471	36562
721972.623	4294320.206	9539	21-Dec-13	ALEX122113 (1).SSF	576043.7158	36563
721972.539	4294320.163	10515	21-Dec-13	ALEX122113 (1).SSF	576044.7378	36564
721972.466	4294320.126	10518	21-Dec-13	ALEX122113 (1).SSF	576045.6372	36565
721972.471	4294320.11	9349	21-Dec-13	ALEX122113 (1).SSF	576046.752	36566
721972.504	4294320.118	9447	21-Dec-13	ALEX122113 (1).SSF	576047.5981	36567
721972.504	4294320.098	9922	21-Dec-13	ALEX122113 (1).SSF	576048.7358	36568
721972.478	4294320.071	8690	21-Dec-13	ALEX122113 (1).SSF	576049.6841	36569
721972.466	4294319.965	10212	21-Dec-13	ALEX122113 (1).SSF	576050.709	36570
721972.239	4294319.617	11313	21-Dec-13	ALEX122113 (1).SSF	576051.71	36571
721971.872	4294319.033	10448	21-Dec-13	ALEX122113 (1).SSF	576052.7778	36572
721971.576	4294318.505	10742	21-Dec-13	ALEX122113 (1).SSF	576053.688	36573
721971.159	4294317.967	10665	21-Dec-13	ALEX122113 (1).SSF	576054.7178	36574
721970.734	4294317.353	9236	21-Dec-13	ALEX122113 (1).SSF	576055.6392	36575
721970.256	4294316.61	10079	21-Dec-13	ALEX122113 (1).SSF	576056.689	36576
721969.863	4294316.108	9060	21-Dec-13	ALEX122113 (1).SSF	576057.6538	36577
721969.512	4294315.64	8205	21-Dec-13	ALEX122113 (1).SSF	576058.6782	36578
721958.722	4294299.505	9401	21-Dec-13	ALEX122113 (1).SSF	576085.5601	36579
721958.722	4294299.505	10090	21-Dec-13	ALEX122113 (1).SSF	576085.561	36580
721958.722	4294299.505	10532	21-Dec-13	ALEX122113 (1).SSF	576085.561	36581
721958.722	4294299.504	10103	21-Dec-13	ALEX122113 (1).SSF	576085.562	36582
721958.722	4294299.504	10085	21-Dec-13	ALEX122113 (1).SSF	576085.562	36583
721958.721	4294299.503	9391	21-Dec-13	ALEX122113 (1).SSF	576085.563	36584
721958.721	4294299.503	9307	21-Dec-13	ALEX122113 (1).SSF	576085.564	36585
721958.721	4294299.503	9437	21-Dec-13	ALEX122113 (1).SSF	576085.564	36586
721958.72	4294299.502	9799	21-Dec-13	ALEX122113 (1).SSF	576085.5649	36587
721958.72	4294299.502	9889	21-Dec-13	ALEX122113 (1).SSF	576085.5659	36588
721958.72	4294299.502	9552	21-Dec-13	ALEX122113 (1).SSF	576085.5659	36589
721958.72	4294299.501	10038	21-Dec-13	ALEX122113 (1).SSF	576085.5669	36590
721958.72	4294299.501	10189	21-Dec-13	ALEX122113 (1).SSF	576085.5669	36591

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721958.719	4294299.5	9747	21-Dec-13	ALEX122113 (1).SSF	576085.5688	36592
721958.719	4294299.5	8917	21-Dec-13	ALEX122113 (1).SSF	576085.5688	36593
721958.719	4294299.499	9489	21-Dec-13	ALEX122113 (1).SSF	576085.5698	36594
721958.719	4294299.499	9512	21-Dec-13	ALEX122113 (1).SSF	576085.5698	36595
721958.718	4294299.498	9158	21-Dec-13	ALEX122113 (1).SSF	576085.5708	36596
721958.718	4294299.498	9279	21-Dec-13	ALEX122113 (1).SSF	576085.5718	36597
721958.718	4294299.498	9760	21-Dec-13	ALEX122113 (1).SSF	576085.5718	36598
721958.717	4294299.497	9640	21-Dec-13	ALEX122113 (1).SSF	576085.5732	36599
721958.717	4294299.496	8920	21-Dec-13	ALEX122113 (1).SSF	576085.5742	36600
721958.716	4294299.496	8740	21-Dec-13	ALEX122113 (1).SSF	576085.5752	36601
721958.716	4294299.496	9055	21-Dec-13	ALEX122113 (1).SSF	576085.5752	36602
721958.716	4294299.495	7843	21-Dec-13	ALEX122113 (1).SSF	576085.5762	36603
721958.716	4294299.495	8741	21-Dec-13	ALEX122113 (1).SSF	576085.5762	36604
721958.716	4294299.494	7105	21-Dec-13	ALEX122113 (1).SSF	576085.5771	36605
721958.715	4294299.494	7206	21-Dec-13	ALEX122113 (1).SSF	576085.5781	36606
721958.715	4294299.493	8101	21-Dec-13	ALEX122113 (1).SSF	576085.5791	36607
721958.715	4294299.493	8355	21-Dec-13	ALEX122113 (1).SSF	576085.5801	36608
721958.714	4294299.491	8838	21-Dec-13	ALEX122113 (1).SSF	576085.582	36609
721958.713	4294299.491	8989	21-Dec-13	ALEX122113 (1).SSF	576085.583	36610
721958.713	4294299.49	9627	21-Dec-13	ALEX122113 (1).SSF	576085.584	36611
721958.713	4294299.489	8467	21-Dec-13	ALEX122113 (1).SSF	576085.585	36612
721958.712	4294299.489	9586	21-Dec-13	ALEX122113 (1).SSF	576085.5859	36613
721957.655	4294297.919	8726	21-Dec-13	ALEX122113 (1).SSF	576088.6851	36614
721957.483	4294297.65	7761	21-Dec-13	ALEX122113 (1).SSF	576089.6118	36615
721957.284	4294297.339	7610	21-Dec-13	ALEX122113 (1).SSF	576090.6841	36616
721957.111	4294297.068	7572	21-Dec-13	ALEX122113 (1).SSF	576091.6152	36617
721956.917	4294296.766	7533	21-Dec-13	ALEX122113 (1).SSF	576092.6548	36618
721956.917	4294296.766	6353	21-Dec-13	ALEX122113 (1).SSF	576092.6558	36619
721956.917	4294296.766	6162	21-Dec-13	ALEX122113 (1).SSF	576092.6572	36620
721956.917	4294296.765	6850	21-Dec-13	ALEX122113 (1).SSF	576092.6582	36621
721956.916	4294296.765	6512	21-Dec-13	ALEX122113 (1).SSF	576092.6592	36622
721956.916	4294296.765	7448	21-Dec-13	ALEX122113 (1).SSF	576092.6602	36623
721956.731	4294296.475	5942	21-Dec-13	ALEX122113 (1).SSF	576093.6582	36624
721954.511	4294293.007	6379	21-Dec-13	ALEX122113 (1).SSF	576105.5991	36625
721954.3	4294292.677	6485	21-Dec-13	ALEX122113 (1).SSF	576106.7339	36626
721954.127	4294292.406	5521	21-Dec-13	ALEX122113 (1).SSF	576107.668	36627
721953.932	4294292.101	5603	21-Dec-13	ALEX122113 (1).SSF	576108.7158	36628
721953.76	4294291.832	5956	21-Dec-13	ALEX122113 (1).SSF	576109.6431	36629
721953.569	4294291.535	5473	21-Dec-13	ALEX122113 (1).SSF	576110.667	36630
721953.393	4294291.26	5651	21-Dec-13	ALEX122113 (1).SSF	576111.6128	36631
721953.199	4294290.956	5503	21-Dec-13	ALEX122113 (1).SSF	576112.6611	36632
721953.025	4294290.684	6021	21-Dec-13	ALEX122113 (1).SSF	576113.5962	36633
721952.809	4294290.347	5707	21-Dec-13	ALEX122113 (1).SSF	576114.7549	36634
721952.641	4294290.084	5790	21-Dec-13	ALEX122113 (1).SSF	576115.6602	36635
721952.423	4294289.744	6114	21-Dec-13	ALEX122113 (1).SSF	576116.8311	36636
721952.263	4294289.494	5773	21-Dec-13	ALEX122113 (1).SSF	576117.6929	36637
721952.055	4294289.168	6224	21-Dec-13	ALEX122113 (1).SSF	576118.8149	36638

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721951.882	4294288.898	6399	21-Dec-13	ALEX122113 (1).SSF	576119.7451	36639
721951.693	4294288.602	6039	21-Dec-13	ALEX122113 (1).SSF	576120.7632	36640
721951.523	4294288.338	5790	21-Dec-13	ALEX122113 (1).SSF	576121.6748	36641
721951.331	4294288.037	5724	21-Dec-13	ALEX122113 (1).SSF	576122.71	36642
721951.155	4294287.763	6347	21-Dec-13	ALEX122113 (1).SSF	576123.6528	36643
721950.959	4294287.457	6836	21-Dec-13	ALEX122113 (1).SSF	576124.708	36644
721950.781	4294287.178	5879	21-Dec-13	ALEX122113 (1).SSF	576125.666	36645
721950.587	4294286.875	5527	21-Dec-13	ALEX122113 (1).SSF	576126.7109	36646
721950.411	4294286.6	6078	21-Dec-13	ALEX122113 (1).SSF	576127.6572	36647
721950.216	4294286.295	6329	21-Dec-13	ALEX122113 (1).SSF	576128.708	36648
721950.037	4294286.015	6562	21-Dec-13	ALEX122113 (1).SSF	576129.6709	36649
721949.834	4294285.698	5360	21-Dec-13	ALEX122113 (1).SSF	576130.7612	36650
721949.674	4294285.449	5985	21-Dec-13	ALEX122113 (1).SSF	576131.6201	36651
721949.474	4294285.135	6359	21-Dec-13	ALEX122113 (1).SSF	576132.7012	36652
721949.291	4294284.849	5700	21-Dec-13	ALEX122113 (1).SSF	576133.6841	36653
721948.947	4294284.936	6033	21-Dec-13	ALEX122113 (1).SSF	576134.6641	36654
721948.554	4294285.168	6057	21-Dec-13	ALEX122113 (1).SSF	576135.6392	36655
721948.275	4294285.138	5927	21-Dec-13	ALEX122113 (1).SSF	576136.6938	36656
721948.073	4294284.819	6266	21-Dec-13	ALEX122113 (1).SSF	576137.6421	36657
721947.808	4294284.234	6156	21-Dec-13	ALEX122113 (1).SSF	576138.687	36658
721947.367	4294283.797	6568	21-Dec-13	ALEX122113 (1).SSF	576139.6558	36659
721947.292	4294283.592	5778	21-Dec-13	ALEX122113 (1).SSF	576140.6582	36660
721947.421	4294283.772	5875	21-Dec-13	ALEX122113 (1).SSF	576141.5972	36661
721959.918	4294306.69	6499	21-Dec-13	ALEX122113 (1).SSF	576303.2271	36662
721960.031	4294306.872	5857	21-Dec-13	ALEX122113 (1).SSF	576304.7729	36663
721960.074	4294306.941	6069	21-Dec-13	ALEX122113 (1).SSF	576305.3618	36664
721960.074	4294306.942	5837	21-Dec-13	ALEX122113 (1).SSF	576305.3672	36665
721960.074	4294306.942	6163	21-Dec-13	ALEX122113 (1).SSF	576305.3721	36666
721960.075	4294306.943	6401	21-Dec-13	ALEX122113 (1).SSF	576305.376	36667
721960.075	4294306.943	6550	21-Dec-13	ALEX122113 (1).SSF	576305.3809	36668
721960.075	4294306.944	6257	21-Dec-13	ALEX122113 (1).SSF	576305.3838	36669
721960.076	4294306.944	6244	21-Dec-13	ALEX122113 (1).SSF	576305.3882	36670
721960.076	4294306.945	5821	21-Dec-13	ALEX122113 (1).SSF	576305.3911	36671
721960.076	4294306.945	5554	21-Dec-13	ALEX122113 (1).SSF	576305.394	36672
721960.077	4294306.946	5599	21-Dec-13	ALEX122113 (1).SSF	576305.3999	36673
721960.077	4294306.947	5279	21-Dec-13	ALEX122113 (1).SSF	576305.4102	36674
721960.078	4294306.948	5557	21-Dec-13	ALEX122113 (1).SSF	576305.417	36675
721960.078	4294306.948	6298	21-Dec-13	ALEX122113 (1).SSF	576305.4209	36676
721960.078	4294306.949	5872	21-Dec-13	ALEX122113 (1).SSF	576305.4238	36677
721960.079	4294306.949	6370	21-Dec-13	ALEX122113 (1).SSF	576305.4282	36678
721960.079	4294306.949	5762	21-Dec-13	ALEX122113 (1).SSF	576305.4312	36679
721960.079	4294306.95	6256	21-Dec-13	ALEX122113 (1).SSF	576305.4351	36680
721960.079	4294306.95	6484	21-Dec-13	ALEX122113 (1).SSF	576305.439	36681
721960.197	4294307.141	6511	21-Dec-13	ALEX122113 (1).SSF	576307.061	36682
721960.198	4294307.143	6247	21-Dec-13	ALEX122113 (1).SSF	576307.0718	36683
721960.199	4294307.144	7142	21-Dec-13	ALEX122113 (1).SSF	576307.084	36684
721960.2	4294307.145	7065	21-Dec-13	ALEX122113 (1).SSF	576307.0942	36685

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721960.201	4294307.147	6776	21-Dec-13	ALEX122113 (1).SSF	576307.105	36686
721960.202	4294307.148	6944	21-Dec-13	ALEX122113 (1).SSF	576307.1172	36687
721960.202	4294307.149	7136	21-Dec-13	ALEX122113 (1).SSF	576307.127	36688
721960.203	4294307.151	7214	21-Dec-13	ALEX122113 (1).SSF	576307.1382	36689
721960.204	4294307.152	6423	21-Dec-13	ALEX122113 (1).SSF	576307.1479	36690
721960.204	4294307.152	6915	21-Dec-13	ALEX122113 (1).SSF	576307.1538	36691
721960.206	4294307.155	7578	21-Dec-13	ALEX122113 (1).SSF	576307.1729	36692
721960.206	4294307.156	8734	21-Dec-13	ALEX122113 (1).SSF	576307.1841	36693
721960.207	4294307.157	8153	21-Dec-13	ALEX122113 (1).SSF	576307.1948	36694
721960.209	4294307.16	8248	21-Dec-13	ALEX122113 (1).SSF	576307.2178	36695
721960.21	4294307.162	9172	21-Dec-13	ALEX122113 (1).SSF	576307.2388	36696
721960.211	4294307.164	9253	21-Dec-13	ALEX122113 (1).SSF	576307.2529	36697
721960.212	4294307.165	8943	21-Dec-13	ALEX122113 (1).SSF	576307.2632	36698
721960.213	4294307.167	8445	21-Dec-13	ALEX122113 (1).SSF	576307.2739	36699
721960.214	4294307.168	9041	21-Dec-13	ALEX122113 (1).SSF	576307.2842	36700
721960.214	4294307.168	8860	21-Dec-13	ALEX122113 (1).SSF	576307.2871	36701
721960.215	4294307.169	9625	21-Dec-13	ALEX122113 (1).SSF	576307.2969	36702
721960.215	4294307.169	8346	21-Dec-13	ALEX122113 (1).SSF	576307.2988	36703
721960.215	4294307.171	8116	21-Dec-13	ALEX122113 (1).SSF	576307.3081	36704
721960.216	4294307.171	7639	21-Dec-13	ALEX122113 (1).SSF	576307.3101	36705
721960.216	4294307.172	8869	21-Dec-13	ALEX122113 (1).SSF	576307.3188	36706
721960.217	4294307.173	8307	21-Dec-13	ALEX122113 (1).SSF	576307.3291	36707
721960.218	4294307.174	8647	21-Dec-13	ALEX122113 (1).SSF	576307.3398	36708
721960.218	4294307.175	8281	21-Dec-13	ALEX122113 (1).SSF	576307.3428	36709
721960.219	4294307.176	9390	21-Dec-13	ALEX122113 (1).SSF	576307.353	36710
721960.22	4294307.178	9367	21-Dec-13	ALEX122113 (1).SSF	576307.3672	36711
721960.22	4294307.178	9512	21-Dec-13	ALEX122113 (1).SSF	576307.3711	36712
721960.22	4294307.178	8648	21-Dec-13	ALEX122113 (1).SSF	576307.374	36713
721960.22	4294307.179	8222	21-Dec-13	ALEX122113 (1).SSF	576307.377	36714
721960.221	4294307.179	8865	21-Dec-13	ALEX122113 (1).SSF	576307.3838	36715
721960.222	4294307.181	10136	21-Dec-13	ALEX122113 (1).SSF	576307.3989	36716
721960.224	4294307.184	10154	21-Dec-13	ALEX122113 (1).SSF	576307.4189	36717
721960.225	4294307.186	10008	21-Dec-13	ALEX122113 (1).SSF	576307.4351	36718
721960.226	4294307.188	9612	21-Dec-13	ALEX122113 (1).SSF	576307.4521	36719
721960.227	4294307.189	10023	21-Dec-13	ALEX122113 (1).SSF	576307.4639	36720
721960.228	4294307.19	8595	21-Dec-13	ALEX122113 (1).SSF	576307.4771	36721
721960.229	4294307.192	8898	21-Dec-13	ALEX122113 (1).SSF	576307.4902	36722
721960.23	4294307.194	9124	21-Dec-13	ALEX122113 (1).SSF	576307.5029	36723
721960.231	4294307.196	9271	21-Dec-13	ALEX122113 (1).SSF	576307.5239	36724
721960.232	4294307.197	9187	21-Dec-13	ALEX122113 (1).SSF	576307.5361	36725
721960.233	4294307.199	9677	21-Dec-13	ALEX122113 (1).SSF	576307.5479	36726
721960.234	4294307.2	9619	21-Dec-13	ALEX122113 (1).SSF	576307.5591	36727
721960.235	4294307.202	9484	21-Dec-13	ALEX122113 (1).SSF	576307.5708	36728
721960.236	4294307.203	8521	21-Dec-13	ALEX122113 (1).SSF	576307.5859	36729
721960.237	4294307.206	10050	21-Dec-13	ALEX122113 (1).SSF	576307.606	36730
721960.238	4294307.207	10792	21-Dec-13	ALEX122113 (1).SSF	576307.6191	36731
721960.239	4294307.209	11338	21-Dec-13	ALEX122113 (1).SSF	576307.6318	36732

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721960.24	4294307.21	9464	21-Dec-13	ALEX122113 (1).SSF	576307.646	36733
721960.24	4294307.211	9686	21-Dec-13	ALEX122113 (1).SSF	576307.6519	36734
721960.242	4294307.214	9771	21-Dec-13	ALEX122113 (1).SSF	576307.6748	36735
721960.243	4294307.215	8832	21-Dec-13	ALEX122113 (1).SSF	576307.689	36736
721960.244	4294307.216	9468	21-Dec-13	ALEX122113 (1).SSF	576307.6938	36737
721960.244	4294307.217	8277	21-Dec-13	ALEX122113 (1).SSF	576307.7021	36738
721960.245	4294307.218	9269	21-Dec-13	ALEX122113 (1).SSF	576307.709	36739
721960.245	4294307.218	9967	21-Dec-13	ALEX122113 (1).SSF	576307.7139	36740
721960.246	4294307.219	9691	21-Dec-13	ALEX122113 (1).SSF	576307.7231	36741
721960.246	4294307.22	9172	21-Dec-13	ALEX122113 (1).SSF	576307.731	36742
721960.247	4294307.221	9403	21-Dec-13	ALEX122113 (1).SSF	576307.7358	36743
721960.247	4294307.222	9041	21-Dec-13	ALEX122113 (1).SSF	576307.7432	36744
721960.248	4294307.222	8590	21-Dec-13	ALEX122113 (1).SSF	576307.748	36745
721960.248	4294307.223	8807	21-Dec-13	ALEX122113 (1).SSF	576307.7549	36746
721960.248	4294307.224	8711	21-Dec-13	ALEX122113 (1).SSF	576307.7588	36747
721960.252	4294307.229	8298	21-Dec-13	ALEX122113 (1).SSF	576307.8062	36748
721960.252	4294307.23	8704	21-Dec-13	ALEX122113 (1).SSF	576307.812	36749
721960.252	4294307.23	10096	21-Dec-13	ALEX122113 (1).SSF	576307.8149	36750
721960.253	4294307.231	9334	21-Dec-13	ALEX122113 (1).SSF	576307.8188	36751
721960.253	4294307.231	9443	21-Dec-13	ALEX122113 (1).SSF	576307.8242	36752
721960.253	4294307.232	10971	21-Dec-13	ALEX122113 (1).SSF	576307.8271	36753
721960.254	4294307.232	9732	21-Dec-13	ALEX122113 (1).SSF	576307.8311	36754
721960.254	4294307.233	9633	21-Dec-13	ALEX122113 (1).SSF	576307.8369	36755
721960.254	4294307.233	9578	21-Dec-13	ALEX122113 (1).SSF	576307.8408	36756
721960.255	4294307.234	8664	21-Dec-13	ALEX122113 (1).SSF	576307.8462	36757
721960.255	4294307.234	8106	21-Dec-13	ALEX122113 (1).SSF	576307.8501	36758
721960.255	4294307.235	9706	21-Dec-13	ALEX122113 (1).SSF	576307.853	36759
721960.256	4294307.236	10316	21-Dec-13	ALEX122113 (1).SSF	576307.8599	36760
721960.256	4294307.236	10409	21-Dec-13	ALEX122113 (1).SSF	576307.8628	36761
721960.256	4294307.237	10192	21-Dec-13	ALEX122113 (1).SSF	576307.8691	36762
721960.257	4294307.237	10138	21-Dec-13	ALEX122113 (1).SSF	576307.873	36763
721960.257	4294307.238	9584	21-Dec-13	ALEX122113 (1).SSF	576307.8799	36764
721960.258	4294307.239	10016	21-Dec-13	ALEX122113 (1).SSF	576307.8862	36765
721960.258	4294307.24	11114	21-Dec-13	ALEX122113 (1).SSF	576307.894	36766
721960.259	4294307.241	9468	21-Dec-13	ALEX122113 (1).SSF	576307.9038	36767
721960.259	4294307.241	9627	21-Dec-13	ALEX122113 (1).SSF	576307.9082	36768
721960.26	4294307.242	10296	21-Dec-13	ALEX122113 (1).SSF	576307.916	36769
721960.261	4294307.243	10344	21-Dec-13	ALEX122113 (1).SSF	576307.9268	36770
721960.261	4294307.245	9816	21-Dec-13	ALEX122113 (1).SSF	576307.938	36771
721960.262	4294307.246	9744	21-Dec-13	ALEX122113 (1).SSF	576307.9458	36772
721960.263	4294307.247	9756	21-Dec-13	ALEX122113 (1).SSF	576307.9551	36773
721960.263	4294307.248	9819	21-Dec-13	ALEX122113 (1).SSF	576307.9639	36774
721960.264	4294307.248	11334	21-Dec-13	ALEX122113 (1).SSF	576307.9678	36775
721960.264	4294307.249	11383	21-Dec-13	ALEX122113 (1).SSF	576307.9741	36776
721960.264	4294307.25	9776	21-Dec-13	ALEX122113 (1).SSF	576307.979	36777
721960.266	4294307.252	8024	21-Dec-13	ALEX122113 (1).SSF	576307.9961	36778
721960.267	4294307.254	9356	21-Dec-13	ALEX122113 (1).SSF	576308.0122	36779

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721960.268	4294307.256	8969	21-Dec-13	ALEX122113 (1).SSF	576308.0298	36780
721960.269	4294307.256	9682	21-Dec-13	ALEX122113 (1).SSF	576308.0371	36781
721960.269	4294307.258	9800	21-Dec-13	ALEX122113 (1).SSF	576308.0488	36782
721960.27	4294307.259	10010	21-Dec-13	ALEX122113 (1).SSF	576308.0591	36783
721960.271	4294307.26	10032	21-Dec-13	ALEX122113 (1).SSF	576308.0688	36784
721960.272	4294307.261	9708	21-Dec-13	ALEX122113 (1).SSF	576308.0791	36785
721960.272	4294307.263	8997	21-Dec-13	ALEX122113 (1).SSF	576308.0908	36786
721960.273	4294307.264	9119	21-Dec-13	ALEX122113 (1).SSF	576308.1021	36787
721960.274	4294307.266	9960	21-Dec-13	ALEX122113 (1).SSF	576308.1162	36788
721960.275	4294307.267	9390	21-Dec-13	ALEX122113 (1).SSF	576308.1279	36789
721960.276	4294307.269	9397	21-Dec-13	ALEX122113 (1).SSF	576308.1431	36790
721960.277	4294307.271	9879	21-Dec-13	ALEX122113 (1).SSF	576308.1572	36791
721960.278	4294307.272	10809	21-Dec-13	ALEX122113 (1).SSF	576308.1719	36792
721960.279	4294307.274	10772	21-Dec-13	ALEX122113 (1).SSF	576308.1851	36793
721960.281	4294307.276	9683	21-Dec-13	ALEX122113 (1).SSF	576308.2041	36794
721960.282	4294307.278	9860	21-Dec-13	ALEX122113 (1).SSF	576308.2192	36795
721960.283	4294307.28	9545	21-Dec-13	ALEX122113 (1).SSF	576308.2349	36796
721960.284	4294307.282	8656	21-Dec-13	ALEX122113 (1).SSF	576308.2539	36797
721960.285	4294307.284	8554	21-Dec-13	ALEX122113 (1).SSF	576308.269	36798
721960.287	4294307.286	9338	21-Dec-13	ALEX122113 (1).SSF	576308.2852	36799
721960.288	4294307.287	10194	21-Dec-13	ALEX122113 (1).SSF	576308.2979	36800
721960.291	4294307.292	10138	21-Dec-13	ALEX122113 (1).SSF	576308.3389	36801
721960.291	4294307.293	9284	21-Dec-13	ALEX122113 (1).SSF	576308.3481	36802
721960.292	4294307.294	8441	21-Dec-13	ALEX122113 (1).SSF	576308.355	36803
721960.292	4294307.295	9910	21-Dec-13	ALEX122113 (1).SSF	576308.3628	36804
721960.293	4294307.296	10457	21-Dec-13	ALEX122113 (1).SSF	576308.3701	36805
721960.293	4294307.297	10384	21-Dec-13	ALEX122113 (1).SSF	576308.3789	36806
721960.294	4294307.298	10246	21-Dec-13	ALEX122113 (1).SSF	576308.3862	36807
721960.295	4294307.299	9641	21-Dec-13	ALEX122113 (1).SSF	576308.397	36808
721960.295	4294307.3	9460	21-Dec-13	ALEX122113 (1).SSF	576308.4058	36809
721960.296	4294307.301	11065	21-Dec-13	ALEX122113 (1).SSF	576308.4189	36810
721960.297	4294307.303	11106	21-Dec-13	ALEX122113 (1).SSF	576308.4302	36811
721960.298	4294307.305	9586	21-Dec-13	ALEX122113 (1).SSF	576308.4448	36812
721960.299	4294307.306	9473	21-Dec-13	ALEX122113 (1).SSF	576308.458	36813
721960.301	4294307.308	9464	21-Dec-13	ALEX122113 (1).SSF	576308.4771	36814
721960.301	4294307.309	9476	21-Dec-13	ALEX122113 (1).SSF	576308.4868	36815
721960.302	4294307.311	9689	21-Dec-13	ALEX122113 (1).SSF	576308.499	36816
721960.303	4294307.312	10162	21-Dec-13	ALEX122113 (1).SSF	576308.5112	36817
721960.304	4294307.314	9920	21-Dec-13	ALEX122113 (1).SSF	576308.5259	36818
721960.305	4294307.315	8540	21-Dec-13	ALEX122113 (1).SSF	576308.5371	36819
721960.306	4294307.318	8615	21-Dec-13	ALEX122113 (1).SSF	576308.5562	36820
721960.307	4294307.319	9413	21-Dec-13	ALEX122113 (1).SSF	576308.5708	36821
721960.309	4294307.322	9373	21-Dec-13	ALEX122113 (1).SSF	576308.5952	36822
721960.311	4294307.326	9483	21-Dec-13	ALEX122113 (1).SSF	576308.625	36823
721960.312	4294307.327	10680	21-Dec-13	ALEX122113 (1).SSF	576308.6372	36824
721960.313	4294307.328	9990	21-Dec-13	ALEX122113 (1).SSF	576308.6479	36825
721960.314	4294307.33	9577	21-Dec-13	ALEX122113 (1).SSF	576308.6582	36826

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721960.314	4294307.331	9864	21-Dec-13	ALEX122113 (1).SSF	576308.668	36827
721960.315	4294307.332	9216	21-Dec-13	ALEX122113 (1).SSF	576308.6782	36828
721960.388	4294307.449	9684	21-Dec-13	ALEX122113 (1).SSF	576309.6729	36829
721960.456	4294307.559	9561	21-Dec-13	ALEX122113 (1).SSF	576310.6069	36830
721963.879	4294312.992	8980	21-Dec-13	ALEX122113 (1).SSF	576362.9722	36831
721963.879	4294312.992	8397	21-Dec-13	ALEX122113 (1).SSF	576362.979	36832
721963.879	4294312.992	9119	21-Dec-13	ALEX122113 (1).SSF	576362.9829	36833
721963.879	4294312.992	9750	21-Dec-13	ALEX122113 (1).SSF	576362.9912	36834
721963.879	4294312.992	11107	21-Dec-13	ALEX122113 (1).SSF	576363.0151	36835
721963.878	4294312.992	10606	21-Dec-13	ALEX122113 (1).SSF	576363.0161	36836
721963.878	4294312.992	9941	21-Dec-13	ALEX122113 (1).SSF	576363.0171	36837
721963.878	4294312.992	10015	21-Dec-13	ALEX122113 (1).SSF	576363.0181	36838
721963.878	4294312.993	9764	21-Dec-13	ALEX122113 (1).SSF	576363.019	36839
721963.878	4294312.993	9581	21-Dec-13	ALEX122113 (1).SSF	576363.02	36840
721963.878	4294312.993	9235	21-Dec-13	ALEX122113 (1).SSF	576363.021	36841
721963.878	4294312.993	10138	21-Dec-13	ALEX122113 (1).SSF	576363.022	36842
721963.878	4294312.993	9584	21-Dec-13	ALEX122113 (1).SSF	576363.0229	36843
721963.878	4294312.993	9266	21-Dec-13	ALEX122113 (1).SSF	576363.0239	36844
721963.878	4294312.993	9426	21-Dec-13	ALEX122113 (1).SSF	576363.0249	36845
721963.878	4294312.993	9166	21-Dec-13	ALEX122113 (1).SSF	576363.0259	36846
721963.878	4294312.993	9221	21-Dec-13	ALEX122113 (1).SSF	576363.0269	36847
721963.878	4294312.993	9835	21-Dec-13	ALEX122113 (1).SSF	576363.0278	36848
721963.878	4294312.993	10529	21-Dec-13	ALEX122113 (1).SSF	576363.0288	36849
721963.877	4294312.993	9172	21-Dec-13	ALEX122113 (1).SSF	576363.0298	36850
721963.877	4294312.993	9343	21-Dec-13	ALEX122113 (1).SSF	576363.0308	36851
721963.877	4294312.993	9535	21-Dec-13	ALEX122113 (1).SSF	576363.0322	36852
721963.877	4294312.993	10514	21-Dec-13	ALEX122113 (1).SSF	576363.0332	36853
721963.877	4294312.993	9348	21-Dec-13	ALEX122113 (1).SSF	576363.0342	36854
721963.877	4294312.993	9597	21-Dec-13	ALEX122113 (1).SSF	576363.0352	36855
721963.877	4294312.993	9839	21-Dec-13	ALEX122113 (1).SSF	576363.0361	36856
721963.877	4294312.993	9690	21-Dec-13	ALEX122113 (1).SSF	576363.0371	36857
721963.877	4294312.993	9382	21-Dec-13	ALEX122113 (1).SSF	576363.0381	36858
721963.877	4294312.993	9185	21-Dec-13	ALEX122113 (1).SSF	576363.0391	36859
721963.877	4294312.993	9436	21-Dec-13	ALEX122113 (1).SSF	576363.04	36860
721963.877	4294312.993	8509	21-Dec-13	ALEX122113 (1).SSF	576363.041	36861
721963.877	4294312.993	9387	21-Dec-13	ALEX122113 (1).SSF	576363.042	36862
721963.877	4294312.993	9697	21-Dec-13	ALEX122113 (1).SSF	576363.043	36863
721963.877	4294312.993	9774	21-Dec-13	ALEX122113 (1).SSF	576363.0439	36864
721963.876	4294312.993	9133	21-Dec-13	ALEX122113 (1).SSF	576363.0449	36865
721963.876	4294312.993	10323	21-Dec-13	ALEX122113 (1).SSF	576363.0459	36866
721963.876	4294312.994	10260	21-Dec-13	ALEX122113 (1).SSF	576363.0469	36867
721963.876	4294312.994	9825	21-Dec-13	ALEX122113 (1).SSF	576363.0479	36868
721963.876	4294312.994	9536	21-Dec-13	ALEX122113 (1).SSF	576363.0488	36869
721963.876	4294312.994	9884	21-Dec-13	ALEX122113 (1).SSF	576363.0498	36870
721963.876	4294312.994	10001	21-Dec-13	ALEX122113 (1).SSF	576363.0508	36871
721963.876	4294312.994	9880	21-Dec-13	ALEX122113 (1).SSF	576363.0518	36872
721963.876	4294312.994	9820	21-Dec-13	ALEX122113 (1).SSF	576363.0532	36873

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721963.876	4294312.994	9565	21-Dec-13	ALEX122113 (1).SSF	576363.0542	36874
721963.876	4294312.994	9231	21-Dec-13	ALEX122113 (1).SSF	576363.0552	36875
721963.876	4294312.994	9537	21-Dec-13	ALEX122113 (1).SSF	576363.0562	36876
721963.876	4294312.994	9404	21-Dec-13	ALEX122113 (1).SSF	576363.0571	36877
721963.876	4294312.994	8981	21-Dec-13	ALEX122113 (1).SSF	576363.0581	36878
721963.875	4294312.994	9295	21-Dec-13	ALEX122113 (1).SSF	576363.0591	36879
721963.875	4294312.994	9943	21-Dec-13	ALEX122113 (1).SSF	576363.0601	36880
721963.875	4294312.994	9356	21-Dec-13	ALEX122113 (1).SSF	576363.061	36881
721963.875	4294312.994	9299	21-Dec-13	ALEX122113 (1).SSF	576363.062	36882
721963.875	4294312.994	9554	21-Dec-13	ALEX122113 (1).SSF	576363.063	36883
721963.875	4294312.994	9288	21-Dec-13	ALEX122113 (1).SSF	576363.064	36884
721963.753	4294313.061	9762	21-Dec-13	ALEX122113 (1).SSF	576365.3281	36885
721963.725	4294313.089	9130	21-Dec-13	ALEX122113 (1).SSF	576366.4092	36886
721963.685	4294313.078	9092	21-Dec-13	ALEX122113 (1).SSF	576367.3291	36887
721963.605	4294313.002	9593	21-Dec-13	ALEX122113 (1).SSF	576368.4482	36888
721963.575	4294312.949	8998	21-Dec-13	ALEX122113 (1).SSF	576369.3232	36889
721963.542	4294312.891	10409	21-Dec-13	ALEX122113 (1).SSF	576370.562	36890
721963.523	4294312.863	9052	21-Dec-13	ALEX122113 (1).SSF	576371.4941	36891
721963.502	4294312.814	9133	21-Dec-13	ALEX122113 (1).SSF	576372.584	36892
721963.482	4294312.782	8823	21-Dec-13	ALEX122113 (1).SSF	576373.5122	36893
721963.473	4294312.785	9345	21-Dec-13	ALEX122113 (1).SSF	576374.6489	36894
721963.475	4294312.789	10106	21-Dec-13	ALEX122113 (1).SSF	576375.5591	36895
721963.478	4294312.79	10386	21-Dec-13	ALEX122113 (1).SSF	576376.623	36896
721963.478	4294312.79	10456	21-Dec-13	ALEX122113 (1).SSF	576377.5391	36897
721963.478	4294312.79	10294	21-Dec-13	ALEX122113 (1).SSF	576378.6582	36898
721963.478	4294312.79	9593	21-Dec-13	ALEX122113 (1).SSF	576379.5781	36899
721963.478	4294312.79	9178	21-Dec-13	ALEX122113 (1).SSF	576380.5952	36900
721963.478	4294312.79	9764	21-Dec-13	ALEX122113 (1).SSF	576381.6108	36901
721963.478	4294312.79	9761	21-Dec-13	ALEX122113 (1).SSF	576382.625	36902
721963.478	4294312.79	9580	21-Dec-13	ALEX122113 (1).SSF	576383.5361	36903
721963.478	4294312.79	10135	21-Dec-13	ALEX122113 (1).SSF	576384.6538	36904
721963.478	4294312.79	9703	21-Dec-13	ALEX122113 (1).SSF	576385.5649	36905
721963.478	4294312.79	10106	21-Dec-13	ALEX122113 (1).SSF	576386.6802	36906
721963.478	4294312.79	9246	21-Dec-13	ALEX122113 (1).SSF	576387.5918	36907
721963.478	4294312.79	8251	21-Dec-13	ALEX122113 (1).SSF	576388.9268	36908
721963.478	4294312.79	8752	21-Dec-13	ALEX122113 (1).SSF	576389.5361	36909
721963.478	4294312.79	9208	21-Dec-13	ALEX122113 (1).SSF	576390.6548	36910
721963.478	4294312.79	9232	21-Dec-13	ALEX122113 (1).SSF	576391.5649	36911
721963.478	4294312.79	9658	21-Dec-13	ALEX122113 (1).SSF	576392.6792	36912
721963.478	4294312.79	10514	21-Dec-13	ALEX122113 (1).SSF	576393.5171	36913
721963.478	4294312.79	9708	21-Dec-13	ALEX122113 (1).SSF	576394.6079	36914
721963.478	4294312.79	9987	21-Dec-13	ALEX122113 (1).SSF	576395.5972	36915
721963.478	4294312.79	10206	21-Dec-13	ALEX122113 (1).SSF	576396.6538	36916
721963.478	4294312.79	10351	21-Dec-13	ALEX122113 (1).SSF	576397.542	36917
721963.478	4294312.79	9337	21-Dec-13	ALEX122113 (1).SSF	576398.6582	36918
721963.478	4294312.79	9774	21-Dec-13	ALEX122113 (1).SSF	576399.5732	36919
721963.478	4294312.79	9373	21-Dec-13	ALEX122113 (1).SSF	576400.5952	36920

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721963.478	4294312.79	9663	21-Dec-13	ALEX122113 (1).SSF	576401.5249	36921
721963.478	4294312.79	9735	21-Dec-13	ALEX122113 (1).SSF	576402.6631	36922
721963.478	4294312.79	8313	21-Dec-13	ALEX122113 (1).SSF	576403.6001	36923
721963.478	4294312.79	9548	21-Dec-13	ALEX122113 (1).SSF	576404.6172	36924
721963.478	4294312.79	9287	21-Dec-13	ALEX122113 (1).SSF	576405.5308	36925
721963.478	4294312.79	8561	21-Dec-13	ALEX122113 (1).SSF	576406.645	36926
721963.478	4294312.79	9250	21-Dec-13	ALEX122113 (1).SSF	576407.5181	36927
721963.478	4294312.79	10292	21-Dec-13	ALEX122113 (1).SSF	576408.7202	36928
721963.478	4294312.79	10163	21-Dec-13	ALEX122113 (1).SSF	576409.5449	36929
721963.478	4294312.79	11180	21-Dec-13	ALEX122113 (1).SSF	576410.6572	36930
721963.478	4294312.79	9245	21-Dec-13	ALEX122113 (1).SSF	576411.5732	36931
721963.478	4294312.79	10621	21-Dec-13	ALEX122113 (1).SSF	576412.645	36932
721963.478	4294312.79	9105	21-Dec-13	ALEX122113 (1).SSF	576413.5542	36933
721963.478	4294312.79	8696	21-Dec-13	ALEX122113 (1).SSF	576414.668	36934
721963.478	4294312.79	9824	21-Dec-13	ALEX122113 (1).SSF	576415.585	36935
721963.478	4294312.79	8486	21-Dec-13	ALEX122113 (1).SSF	576416.5952	36936
721963.478	4294312.79	9291	21-Dec-13	ALEX122113 (1).SSF	576417.6108	36937
721963.478	4294312.79	8862	21-Dec-13	ALEX122113 (1).SSF	576418.6538	36938
721963.478	4294312.79	8335	21-Dec-13	ALEX122113 (1).SSF	576419.563	36939
721963.478	4294312.79	9524	21-Dec-13	ALEX122113 (1).SSF	576420.6699	36940
721963.478	4294312.79	10151	21-Dec-13	ALEX122113 (1).SSF	576421.5889	36941
721963.478	4294312.79	9437	21-Dec-13	ALEX122113 (1).SSF	576422.605	36942
721963.478	4294312.79	8839	21-Dec-13	ALEX122113 (1).SSF	576423.5352	36943
721963.478	4294312.79	9709	21-Dec-13	ALEX122113 (1).SSF	576424.5859	36944
721963.478	4294312.79	9657	21-Dec-13	ALEX122113 (1).SSF	576425.5669	36945
721963.478	4294312.79	9224	21-Dec-13	ALEX122113 (1).SSF	576426.5791	36946
721963.478	4294312.79	8636	21-Dec-13	ALEX122113 (1).SSF	576427.54	36947
721963.478	4294312.79	8519	21-Dec-13	ALEX122113 (1).SSF	576428.5581	36948
721963.478	4294312.79	9779	21-Dec-13	ALEX122113 (1).SSF	576429.4692	36949
721963.478	4294312.79	9435	21-Dec-13	ALEX122113 (1).SSF	576430.6221	36950
721963.478	4294312.79	10068	21-Dec-13	ALEX122113 (1).SSF	576431.5322	36951
721963.478	4294312.79	10587	21-Dec-13	ALEX122113 (1).SSF	576432.6572	36952
721963.478	4294312.79	9966	21-Dec-13	ALEX122113 (1).SSF	576433.6172	36953
722253.51	4294310.86	4527	21-Dec-13	ALEX122113.SSF	568999.408	36954
722253.497	4294310.844	4624	21-Dec-13	ALEX122113.SSF	569000.265	36955
722253.477	4294310.836	5211	21-Dec-13	ALEX122113.SSF	569001.327	36956
722253.477	4294310.83	5038	21-Dec-13	ALEX122113.SSF	569002.275	36957
722253.474	4294310.821	4889	21-Dec-13	ALEX122113.SSF	569003.349	36958
722253.478	4294310.814	4962	21-Dec-13	ALEX122113.SSF	569004.273	36959
722253.506	4294310.815	5049	21-Dec-13	ALEX122113.SSF	569005.259	36960
722253.516	4294310.772	5307	21-Dec-13	ALEX122113.SSF	569006.192	36961
722253.641	4294310.619	5145	21-Dec-13	ALEX122113.SSF	569007.301	36962
722253.71	4294310.54	4979	21-Dec-13	ALEX122113.SSF	569008.231	36963
722253.798	4294310.491	4698	21-Dec-13	ALEX122113.SSF	569009.288	36964
722253.9	4294310.401	5208	21-Dec-13	ALEX122113.SSF	569010.279	36965
722253.968	4294310.3	5021	21-Dec-13	ALEX122113.SSF	569011.276	36966
722254.005	4294310.225	4864	21-Dec-13	ALEX122113.SSF	569012.225	36967

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722254.045	4294310.177	4709	21-Dec-13	ALEX122113.SSF	569013.292	36968
722254.06	4294310.172	4868	21-Dec-13	ALEX122113.SSF	569014.196	36969
722254.04	4294310.214	5011	21-Dec-13	ALEX122113.SSF	569015.316	36970
722254.043	4294310.246	5136	21-Dec-13	ALEX122113.SSF	569016.193	36971
722254.063	4294310.264	5311	21-Dec-13	ALEX122113.SSF	569017.311	36972
722254.043	4294310.268	5132	21-Dec-13	ALEX122113.SSF	569018.173	36973
722254.076	4294310.252	5032	21-Dec-13	ALEX122113.SSF	569019.234	36974
722254.044	4294310.205	5125	21-Dec-13	ALEX122113.SSF	569020.141	36975
722254.037	4294310.161	5170	21-Dec-13	ALEX122113.SSF	569021.184	36976
722254.056	4294310.108	5616	21-Dec-13	ALEX122113.SSF	569022.156	36977
722254.051	4294310.091	5409	21-Dec-13	ALEX122113.SSF	569023.115	36978
722254.074	4294310.059	5435	21-Dec-13	ALEX122113.SSF	569024.053	36979
722254.087	4294310.055	5142	21-Dec-13	ALEX122113.SSF	569025.268	36980
722254.1	4294310.041	5090	21-Dec-13	ALEX122113.SSF	569026.11	36981
722254.122	4294310.03	5263	21-Dec-13	ALEX122113.SSF	569027.262	36982
722254.12	4294310.034	5060	21-Dec-13	ALEX122113.SSF	569028.104	36983
722254.113	4294310.054	4923	21-Dec-13	ALEX122113.SSF	569029.29	36984
722254.101	4294310.074	4794	21-Dec-13	ALEX122113.SSF	569030.181	36985
722254.1	4294310.083	5037	21-Dec-13	ALEX122113.SSF	569031.26	36986
722254.1	4294310.109	5353	21-Dec-13	ALEX122113.SSF	569032.239	36987
722254.057	4294310.084	5216	21-Dec-13	ALEX122113.SSF	569033.285	36988
722254.108	4294310.094	5124	21-Dec-13	ALEX122113.SSF	569034.162	36989
722254.091	4294310.084	4989	21-Dec-13	ALEX122113.SSF	569035.174	36990
722254.113	4294310.102	4441	21-Dec-13	ALEX122113.SSF	569036.139	36991
722254.117	4294310.101	4793	21-Dec-13	ALEX122113.SSF	569037.217	36992
722254.147	4294310.101	4878	21-Dec-13	ALEX122113.SSF	569038.171	36993
722254.089	4294310.087	5294	21-Dec-13	ALEX122113.SSF	569039.246	36994
722254.115	4294310.097	5048	21-Dec-13	ALEX122113.SSF	569040.256	36995
722254.134	4294310.09	4872	21-Dec-13	ALEX122113.SSF	569041.312	36996
722254.164	4294310.081	4503	21-Dec-13	ALEX122113.SSF	569042.165	36997
722254.132	4294310.072	4985	21-Dec-13	ALEX122113.SSF	569043.219	36998
722254.169	4294310.091	5241	21-Dec-13	ALEX122113.SSF	569044.207	36999
722254.149	4294310.069	5071	21-Dec-13	ALEX122113.SSF	569045.362	37000
722254.141	4294310.068	5207	21-Dec-13	ALEX122113.SSF	569046.228	37001
722254.131	4294310.073	5336	21-Dec-13	ALEX122113.SSF	569047.293	37002
722254.129	4294310.068	4951	21-Dec-13	ALEX122113.SSF	569048.268	37003
722254.133	4294310.064	4788	21-Dec-13	ALEX122113.SSF	569049.326	37004
722254.125	4294310.056	4838	21-Dec-13	ALEX122113.SSF	569050.234	37005
722254.125	4294310.052	5136	21-Dec-13	ALEX122113.SSF	569051.253	37006
722254.122	4294310.048	5071	21-Dec-13	ALEX122113.SSF	569052.205	37007
722254.139	4294310.048	4743	21-Dec-13	ALEX122113.SSF	569053.286	37008
722254.157	4294310.046	5240	21-Dec-13	ALEX122113.SSF	569054.23	37009
722254.156	4294310.04	5160	21-Dec-13	ALEX122113.SSF	569055.35	37010
722254.163	4294310.038	5152	21-Dec-13	ALEX122113.SSF	569056.31	37011
722254.165	4294310.046	4998	21-Dec-13	ALEX122113.SSF	569057.359	37012
722254.147	4294310.063	4851	21-Dec-13	ALEX122113.SSF	569058.207	37013
722254.12	4294310.081	4401	21-Dec-13	ALEX122113.SSF	569059.38	37014

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722254.116	4294310.099	4680	21-Dec-13	ALEX122113.SSF	569060.169	37015
722254.09	4294310.107	4995	21-Dec-13	ALEX122113.SSF	569061.304	37016
722254.126	4294310.109	5142	21-Dec-13	ALEX122113.SSF	569062.194	37017
722254.119	4294310.069	5547	21-Dec-13	ALEX122113.SSF	569063.286	37018
722254.112	4294310.055	5025	21-Dec-13	ALEX122113.SSF	569064.181	37019
722254.094	4294310.06	4964	21-Dec-13	ALEX122113.SSF	569065.346	37020
722254.096	4294310.072	4585	21-Dec-13	ALEX122113.SSF	569066.261	37021
722254.092	4294310.072	5121	21-Dec-13	ALEX122113.SSF	569067.332	37022
722254.081	4294310.081	5183	21-Dec-13	ALEX122113.SSF	569068.309	37023
722254.082	4294310.081	5263	21-Dec-13	ALEX122113.SSF	569069.338	37024
722254.089	4294310.064	4978	21-Dec-13	ALEX122113.SSF	569070.187	37025
722254.115	4294310.047	4877	21-Dec-13	ALEX122113.SSF	569071.359	37026
722254.036	4294310.051	4723	21-Dec-13	ALEX122113.SSF	569072.272	37027
721983.784	4294347.677	7948	21-Dec-13	ALEX122113.SSF	569866.053	37028
721983.79	4294347.688	8857	21-Dec-13	ALEX122113.SSF	569866.991	37029
721983.778	4294347.73	8334	21-Dec-13	ALEX122113.SSF	569867.868	37030
721983.733	4294347.767	8233	21-Dec-13	ALEX122113.SSF	569869.011	37031
721983.755	4294347.814	9108	21-Dec-13	ALEX122113.SSF	569869.929	37032
721983.776	4294347.846	8697	21-Dec-13	ALEX122113.SSF	569870.995	37033
721983.785	4294347.862	8594	21-Dec-13	ALEX122113.SSF	569871.849	37034
721983.765	4294347.817	8868	21-Dec-13	ALEX122113.SSF	569872.956	37035
721983.789	4294347.861	8277	21-Dec-13	ALEX122113.SSF	569873.924	37036
721983.851	4294347.63	7259	21-Dec-13	ALEX122113.SSF	569874.923	37037
721984.403	4294347.861	8325	21-Dec-13	ALEX122113.SSF	569875.894	37038
721984.848	4294348.278	9221	21-Dec-13	ALEX122113.SSF	569876.946	37039
721984.767	4294348.612	8485	21-Dec-13	ALEX122113.SSF	569877.847	37040
721985.014	4294348.801	8271	21-Dec-13	ALEX122113.SSF	569879.002	37041
721985.387	4294349.024	8277	21-Dec-13	ALEX122113.SSF	569879.878	37042
721985.444	4294349.643	7709	21-Dec-13	ALEX122113.SSF	569880.939	37043
721985.721	4294350.508	8707	21-Dec-13	ALEX122113.SSF	569881.808	37044
721986.769	4294351.61	8836	21-Dec-13	ALEX122113.SSF	569882.89	37045
721987.639	4294352.527	8869	21-Dec-13	ALEX122113.SSF	569883.827	37046
721988.516	4294353.446	8067	21-Dec-13	ALEX122113.SSF	569884.891	37047
721989.382	4294354.165	8347	21-Dec-13	ALEX122113.SSF	569885.817	37048
721990.57	4294355.152	7726	21-Dec-13	ALEX122113.SSF	569886.936	37049
721991.693	4294355.925	6791	21-Dec-13	ALEX122113.SSF	569887.886	37050
721992.734	4294356.703	7908	21-Dec-13	ALEX122113.SSF	569888.925	37051
721993.533	4294357.499	7107	21-Dec-13	ALEX122113.SSF	569889.807	37052
721994.719	4294358.576	6246	21-Dec-13	ALEX122113.SSF	569890.934	37053
721995.872	4294359.361	6391	21-Dec-13	ALEX122113.SSF	569891.916	37054
721996.777	4294360.127	7147	21-Dec-13	ALEX122113.SSF	569892.941	37055
721997.462	4294360.865	7307	21-Dec-13	ALEX122113.SSF	569893.865	37056
721997.937	4294361.383	6656	21-Dec-13	ALEX122113.SSF	569894.975	37057
721998.179	4294361.262	7154	21-Dec-13	ALEX122113.SSF	569895.77	37058
721998.386	4294361.072	7158	21-Dec-13	ALEX122113.SSF	569896.834	37059
721998.369	4294361.092	6829	21-Dec-13	ALEX122113.SSF	569897.768	37060
721998.357	4294361.147	7137	21-Dec-13	ALEX122113.SSF	569898.89	37061

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721998.362	4294361.124	7544	21-Dec-13	ALEX122113.SSF	569899.787	37062
721998.34	4294361.077	6896	21-Dec-13	ALEX122113.SSF	569900.874	37063
721998.296	4294361.066	6194	21-Dec-13	ALEX122113.SSF	569901.8	37064
721998.209	4294361.068	6312	21-Dec-13	ALEX122113.SSF	569902.923	37065
721998.127	4294361.118	6702	21-Dec-13	ALEX122113.SSF	569903.8	37066
721998.104	4294361.165	6325	21-Dec-13	ALEX122113.SSF	569904.91	37067
721998.115	4294361.144	7491	21-Dec-13	ALEX122113.SSF	569905.842	37068
721998.158	4294361.081	6342	21-Dec-13	ALEX122113.SSF	569906.999	37069
721998.202	4294361.029	6745	21-Dec-13	ALEX122113.SSF	569907.906	37070
721998.16	4294360.99	7056	21-Dec-13	ALEX122113.SSF	569909.057	37071
721998.113	4294360.966	7464	21-Dec-13	ALEX122113.SSF	569910.003	37072
721998.076	4294360.883	7926	21-Dec-13	ALEX122113.SSF	569911.018	37073
721998.075	4294360.839	6661	21-Dec-13	ALEX122113.SSF	569911.919	37074
721998.072	4294360.796	6345	21-Dec-13	ALEX122113.SSF	569912.978	37075
721998.07	4294360.765	7376	21-Dec-13	ALEX122113.SSF	569913.829	37076
721998.041	4294360.748	7034	21-Dec-13	ALEX122113.SSF	569915.038	37077
721998.018	4294360.743	6408	21-Dec-13	ALEX122113.SSF	569915.753	37078
721998.033	4294360.752	7722	21-Dec-13	ALEX122113.SSF	569916.929	37079
721998.059	4294360.758	6880	21-Dec-13	ALEX122113.SSF	569917.767	37080
721998.078	4294360.767	6940	21-Dec-13	ALEX122113.SSF	569918.861	37081
721998.081	4294360.776	6535	21-Dec-13	ALEX122113.SSF	569919.76	37082
721998.06	4294360.791	6913	21-Dec-13	ALEX122113.SSF	569921.012	37083
721997.892	4294360.649	6468	21-Dec-13	ALEX122113.SSF	569921.806	37084
721997.448	4294360.362	6717	21-Dec-13	ALEX122113.SSF	569922.934	37085
721996.929	4294360.102	7169	21-Dec-13	ALEX122113.SSF	569923.877	37086
721996.208	4294359.638	6892	21-Dec-13	ALEX122113.SSF	569924.886	37087
721995.513	4294359.139	7573	21-Dec-13	ALEX122113.SSF	569925.885	37088
721994.76	4294358.683	7653	21-Dec-13	ALEX122113.SSF	569926.954	37089
721994.027	4294358.236	6683	21-Dec-13	ALEX122113.SSF	569927.964	37090
721993.195	4294357.679	6350	21-Dec-13	ALEX122113.SSF	569928.981	37091
721992.437	4294357.1	6327	21-Dec-13	ALEX122113.SSF	569929.937	37092
721991.664	4294356.582	6592	21-Dec-13	ALEX122113.SSF	569930.908	37093
721990.826	4294356.104	7318	21-Dec-13	ALEX122113.SSF	569931.871	37094
721989.956	4294355.511	7409	21-Dec-13	ALEX122113.SSF	569932.925	37095
721989.213	4294354.965	5872	21-Dec-13	ALEX122113.SSF	569933.817	37096
721988.292	4294354.263	6183	21-Dec-13	ALEX122113.SSF	569934.947	37097
721987.573	4294353.778	6218	21-Dec-13	ALEX122113.SSF	569935.838	37098
721986.657	4294353.233	6054	21-Dec-13	ALEX122113.SSF	569936.879	37099
721985.932	4294352.761	6635	21-Dec-13	ALEX122113.SSF	569937.77	37100
721985.09	4294352.166	7988	21-Dec-13	ALEX122113.SSF	569938.891	37101
721984.354	4294351.609	7727	21-Dec-13	ALEX122113.SSF	569939.832	37102
721983.549	4294351.066	6881	21-Dec-13	ALEX122113.SSF	569940.851	37103
721982.736	4294350.573	7600	21-Dec-13	ALEX122113.SSF	569941.886	37104
721981.858	4294350.049	7450	21-Dec-13	ALEX122113.SSF	569942.903	37105
721981.074	4294349.537	7052	21-Dec-13	ALEX122113.SSF	569943.812	37106
721980.105	4294348.877	7493	21-Dec-13	ALEX122113.SSF	569944.886	37107
721979.28	4294348.411	7243	21-Dec-13	ALEX122113.SSF	569945.762	37108

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721978.305	4294347.912	8441	21-Dec-13	ALEX122113.SSF	569946.877	37109
721977.581	4294347.426	8650	21-Dec-13	ALEX122113.SSF	569947.781	37110
721976.692	4294346.81	7892	21-Dec-13	ALEX122113.SSF	569948.988	37111
721976.222	4294346.376	7463	21-Dec-13	ALEX122113.SSF	569949.769	37112
721975.586	4294345.859	7745	21-Dec-13	ALEX122113.SSF	569951.027	37113
721975.192	4294345.933	6886	21-Dec-13	ALEX122113.SSF	569951.815	37114
721974.46	4294345.812	6971	21-Dec-13	ALEX122113.SSF	569953.012	37115
721974.022	4294345.449	6273	21-Dec-13	ALEX122113.SSF	569953.863	37116
721973.348	4294344.918	6998	21-Dec-13	ALEX122113.SSF	569954.924	37117
721972.734	4294344.567	7809	21-Dec-13	ALEX122113.SSF	569955.831	37118
721972.143	4294344.095	7082	21-Dec-13	ALEX122113.SSF	569956.884	37119
721971.75	4294343.781	6120	21-Dec-13	ALEX122113.SSF	569957.761	37120
721971.376	4294343.537	7620	21-Dec-13	ALEX122113.SSF	569958.877	37121
721971.201	4294343.386	8595	21-Dec-13	ALEX122113.SSF	569959.873	37122
721971.246	4294343.218	6978	21-Dec-13	ALEX122113.SSF	569960.965	37123
721971.281	4294343.281	8284	21-Dec-13	ALEX122113.SSF	569961.827	37124
721971.224	4294343.311	7351	21-Dec-13	ALEX122113.SSF	569962.939	37125
721971.177	4294343.259	7867	21-Dec-13	ALEX122113.SSF	569963.876	37126
721971.155	4294343.195	7637	21-Dec-13	ALEX122113.SSF	569964.924	37127
721971.128	4294343.167	7579	21-Dec-13	ALEX122113.SSF	569965.831	37128
721971.057	4294343.125	7834	21-Dec-13	ALEX122113.SSF	569966.96	37129
721971.061	4294343.027	7928	21-Dec-13	ALEX122113.SSF	569967.928	37130
721971.148	4294342.997	7832	21-Dec-13	ALEX122113.SSF	569968.935	37131
721971.193	4294343.076	7508	21-Dec-13	ALEX122113.SSF	569969.842	37132
721971.256	4294343.06	7337	21-Dec-13	ALEX122113.SSF	569970.961	37133
721971.231	4294343.037	7684	21-Dec-13	ALEX122113.SSF	569971.84	37134
721971.155	4294343.067	7591	21-Dec-13	ALEX122113.SSF	569972.878	37135
721971.143	4294343.118	7207	21-Dec-13	ALEX122113.SSF	569973.827	37136
721971.086	4294343.137	7322	21-Dec-13	ALEX122113.SSF	569974.986	37137
721970.734	4294342.854	7500	21-Dec-13	ALEX122113.SSF	569975.794	37138
721969.815	4294342.225	8835	21-Dec-13	ALEX122113.SSF	569976.928	37139
721969.191	4294342.156	8598	21-Dec-13	ALEX122113.SSF	569977.763	37140
721968.69	4294342.174	8059	21-Dec-13	ALEX122113.SSF	569978.901	37141
721968.454	4294341.641	7745	21-Dec-13	ALEX122113.SSF	569979.78	37142
721967.972	4294340.602	7756	21-Dec-13	ALEX122113.SSF	569981.077	37143
721967.675	4294339.951	6469	21-Dec-13	ALEX122113.SSF	569981.781	37144
721967.326	4294338.817	7077	21-Dec-13	ALEX122113.SSF	569982.966	37145
721967.04	4294338.115	5879	21-Dec-13	ALEX122113.SSF	569983.845	37146
721966.584	4294337.262	6989	21-Dec-13	ALEX122113.SSF	569984.922	37147
721966.18	4294336.485	6727	21-Dec-13	ALEX122113.SSF	569985.841	37148
721965.551	4294335.565	6811	21-Dec-13	ALEX122113.SSF	569986.943	37149
721965.15	4294334.736	6202	21-Dec-13	ALEX122113.SSF	569987.763	37150
721964.838	4294333.608	6290	21-Dec-13	ALEX122113.SSF	569988.968	37151
721964.62	4294333.078	6004	21-Dec-13	ALEX122113.SSF	569989.785	37152
721964.289	4294332.145	5927	21-Dec-13	ALEX122113.SSF	569991.13	37153
721964.006	4294331.518	6244	21-Dec-13	ALEX122113.SSF	569991.885	37154
721963.501	4294330.601	6691	21-Dec-13	ALEX122113.SSF	569992.995	37155

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721963.159	4294329.886	6742	21-Dec-13	ALEX122113.SSF	569993.825	37156
721962.684	4294328.964	6785	21-Dec-13	ALEX122113.SSF	569994.902	37157
721962.294	4294328.137	7876	21-Dec-13	ALEX122113.SSF	569995.8	37158
721961.896	4294327.12	7159	21-Dec-13	ALEX122113.SSF	569996.883	37159
721961.474	4294326.314	7099	21-Dec-13	ALEX122113.SSF	569997.835	37160
721960.878	4294325.532	7385	21-Dec-13	ALEX122113.SSF	569998.882	37161
721960.421	4294324.722	7456	21-Dec-13	ALEX122113.SSF	569999.887	37162
721960.139	4294323.866	6814	21-Dec-13	ALEX122113.SSF	570000.884	37163
721959.835	4294323.115	6713	21-Dec-13	ALEX122113.SSF	570001.823	37164
721959.382	4294322.236	6898	21-Dec-13	ALEX122113.SSF	570002.884	37165
721958.994	4294321.2	5774	21-Dec-13	ALEX122113.SSF	570003.948	37166
721958.698	4294320.318	6635	21-Dec-13	ALEX122113.SSF	570004.896	37167
721958.347	4294319.578	6998	21-Dec-13	ALEX122113.SSF	570005.768	37168
721957.869	4294318.75	7149	21-Dec-13	ALEX122113.SSF	570006.811	37169
721957.581	4294317.922	6947	21-Dec-13	ALEX122113.SSF	570007.766	37170
721957.353	4294316.961	7196	21-Dec-13	ALEX122113.SSF	570008.806	37171
721957.046	4294316.086	6359	21-Dec-13	ALEX122113.SSF	570009.813	37172
721956.667	4294315.172	5909	21-Dec-13	ALEX122113.SSF	570010.813	37173
721956.407	4294314.311	6281	21-Dec-13	ALEX122113.SSF	570011.733	37174
721956.293	4294313.166	6400	21-Dec-13	ALEX122113.SSF	570012.8	37175
721956.144	4294312.067	5920	21-Dec-13	ALEX122113.SSF	570013.804	37176
721955.852	4294310.949	5962	21-Dec-13	ALEX122113.SSF	570014.864	37177
721955.595	4294309.971	6855	21-Dec-13	ALEX122113.SSF	570015.878	37178
721955.451	4294308.901	5930	21-Dec-13	ALEX122113.SSF	570016.931	37179
721955.29	4294308.01	6529	21-Dec-13	ALEX122113.SSF	570017.794	37180
721955.013	4294307.001	5892	21-Dec-13	ALEX122113.SSF	570018.865	37181
721954.815	4294306.06	6934	21-Dec-13	ALEX122113.SSF	570019.8199	37182
721954.797	4294304.987	7223	21-Dec-13	ALEX122113.SSF	570020.877	37183
721954.756	4294304.155	6126	21-Dec-13	ALEX122113.SSF	570021.8101	37184
721954.492	4294303.156	5761	21-Dec-13	ALEX122113.SSF	570022.871	37185
721954.215	4294302.223	5970	21-Dec-13	ALEX122113.SSF	570023.828	37186
721954.087	4294301.155	6573	21-Dec-13	ALEX122113.SSF	570024.88	37187
721954.005	4294300.256	5750	21-Dec-13	ALEX122113.SSF	570025.762	37188
721953.724	4294299.18	6176	21-Dec-13	ALEX122113.SSF	570026.827	37189
721953.393	4294298.383	6704	21-Dec-13	ALEX122113.SSF	570027.756	37190
721953.34	4294297.573	6026	21-Dec-13	ALEX122113.SSF	570028.8409	37191
721953.386	4294297.138	6014	21-Dec-13	ALEX122113.SSF	570029.761	37192
721953.385	4294296.773	6095	21-Dec-13	ALEX122113.SSF	570030.8831	37193
721953.378	4294296.242	6053	21-Dec-13	ALEX122113.SSF	570031.799	37194
721953.318	4294295.376	5872	21-Dec-13	ALEX122113.SSF	570032.854	37195
721952.952	4294294.703	6131	21-Dec-13	ALEX122113.SSF	570033.7889	37196
721952.269	4294294.085	6362	21-Dec-13	ALEX122113.SSF	570034.885	37197
721951.916	4294293.549	5790	21-Dec-13	ALEX122113.SSF	570035.7679	37198
721951.695	4294292.764	5635	21-Dec-13	ALEX122113.SSF	570036.868	37199
721951.672	4294292.149	5727	21-Dec-13	ALEX122113.SSF	570037.804	37200
721951.612	4294291.426	5732	21-Dec-13	ALEX122113.SSF	570038.873	37201
721951.473	4294290.612	5452	21-Dec-13	ALEX122113.SSF	570039.816	37202

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721951.433	4294289.624	5474	21-Dec-13	ALEX122113.SSF	570040.887	37203
721951.315	4294288.883	5899	21-Dec-13	ALEX122113.SSF	570041.819	37204
721951.097	4294288.241	5816	21-Dec-13	ALEX122113.SSF	570042.832	37205
721950.972	4294287.574	5709	21-Dec-13	ALEX122113.SSF	570043.759	37206
721950.885	4294286.713	5753	21-Dec-13	ALEX122113.SSF	570044.819	37207
721950.669	4294285.928	5314	21-Dec-13	ALEX122113.SSF	570045.748	37208
721950.429	4294285.048	5254	21-Dec-13	ALEX122113.SSF	570046.89	37209
721950.621	4294284.542	6007	21-Dec-13	ALEX122113.SSF	570047.83	37210
721951.027	4294284.046	5636	21-Dec-13	ALEX122113.SSF	570048.8571	37211
721951.426	4294283.566	5368	21-Dec-13	ALEX122113.SSF	570049.811	37212
721951.969	4294282.944	5913	21-Dec-13	ALEX122113.SSF	570050.8459	37213
721952.431	4294282.357	5763	21-Dec-13	ALEX122113.SSF	570051.8521	37214
721952.754	4294281.652	6249	21-Dec-13	ALEX122113.SSF	570052.865	37215
721953.031	4294280.857	6902	21-Dec-13	ALEX122113.SSF	570053.7939	37216
721953.616	4294279.943	6795	21-Dec-13	ALEX122113.SSF	570054.928	37217
721954.225	4294279.467	5958	21-Dec-13	ALEX122113.SSF	570055.7629	37218
721955.005	4294278.945	6524	21-Dec-13	ALEX122113.SSF	570056.903	37219
721955.692	4294278.66	7181	21-Dec-13	ALEX122113.SSF	570057.809	37220
721956.557	4294278.349	5497	21-Dec-13	ALEX122113.SSF	570058.921	37221
721957.201	4294278.068	5950	21-Dec-13	ALEX122113.SSF	570059.795	37222
721958.029	4294277.738	6686	21-Dec-13	ALEX122113.SSF	570060.859	37223
721958.667	4294277.452	5841	21-Dec-13	ALEX122113.SSF	570061.786	37224
721959.436	4294277.054	5918	21-Dec-13	ALEX122113.SSF	570062.933	37225
721960.181	4294276.712	6621	21-Dec-13	ALEX122113.SSF	570063.837	37226
721961.007	4294276.382	6245	21-Dec-13	ALEX122113.SSF	570064.875	37227
721961.603	4294275.984	6451	21-Dec-13	ALEX122113.SSF	570065.797	37228
721963.028	4294275.188	6425	21-Dec-13	ALEX122113.SSF	570067.771	37230
721963.802	4294274.883	6286	21-Dec-13	ALEX122113.SSF	570068.855	37231
721964.436	4294274.528	7091	21-Dec-13	ALEX122113.SSF	570069.778	37232
721965.277	4294274.131	7083	21-Dec-13	ALEX122113.SSF	570070.974	37233
721965.722	4294273.811	6540	21-Dec-13	ALEX122113.SSF	570071.7321	37234
721966.359	4294273.274	7065	21-Dec-13	ALEX122113.SSF	570072.9611	37235
721966.834	4294273.022	6716	21-Dec-13	ALEX122113.SSF	570073.788	37236
721967.611	4294272.669	6839	21-Dec-13	ALEX122113.SSF	570074.875	37237
721968.222	4294272.397	6690	21-Dec-13	ALEX122113.SSF	570075.646	37238
721969.085	4294272.088	5872	21-Dec-13	ALEX122113.SSF	570076.818	37239
721969.707	4294271.819	6507	21-Dec-13	ALEX122113.SSF	570077.738	37240
721970.494	4294271.425	6546	21-Dec-13	ALEX122113.SSF	570078.776	37241
721971.2	4294271.064	6856	21-Dec-13	ALEX122113.SSF	570079.7419	37242
721971.973	4294270.665	6574	21-Dec-13	ALEX122113.SSF	570080.8621	37243
721972.647	4294270.395	6893	21-Dec-13	ALEX122113.SSF	570081.802	37244
721973.357	4294270.047	7063	21-Dec-13	ALEX122113.SSF	570082.833	37245
721973.962	4294269.708	6986	21-Dec-13	ALEX122113.SSF	570083.748	37246
721974.586	4294269.396	6756	21-Dec-13	ALEX122113.SSF	570084.8979	37247
721974.968	4294269.138	6639	21-Dec-13	ALEX122113.SSF	570085.844	37248
721975.473	4294268.86	6969	21-Dec-13	ALEX122113.SSF	570086.84	37249
721976.086	4294268.53	6242	21-Dec-13	ALEX122113.SSF	570087.759	37250

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721976.853	4294268.101	7050	21-Dec-13	ALEX122113.SSF	570088.8879	37251
721977.243	4294267.855	7012	21-Dec-13	ALEX122113.SSF	570089.835	37252
721977.555	4294267.693	6613	21-Dec-13	ALEX122113.SSF	570090.917	37253
721977.963	4294267.605	7353	21-Dec-13	ALEX122113.SSF	570091.757	37254
721978.6	4294267.268	6998	21-Dec-13	ALEX122113.SSF	570092.916	37255
721979.127	4294266.674	6189	21-Dec-13	ALEX122113.SSF	570093.809	37256
721979.565	4294265.998	6131	21-Dec-13	ALEX122113.SSF	570094.837	37257
721979.81	4294265.542	6034	21-Dec-13	ALEX122113.SSF	570095.764	37258
721980.29	4294264.97	5966	21-Dec-13	ALEX122113.SSF	570096.8979	37259
721980.672	4294264.416	6161	21-Dec-13	ALEX122113.SSF	570097.752	37260
721981.092	4294263.772	5970	21-Dec-13	ALEX122113.SSF	570098.801	37261
721981.423	4294263.383	5998	21-Dec-13	ALEX122113.SSF	570099.7271	37262
721981.794	4294262.9	7109	21-Dec-13	ALEX122113.SSF	570100.829	37263
721982.279	4294262.291	6997	21-Dec-13	ALEX122113.SSF	570101.7419	37264
721982.954	4294261.502	6309	21-Dec-13	ALEX122113.SSF	570102.874	37265
721983.384	4294260.908	6647	21-Dec-13	ALEX122113.SSF	570103.762	37266
721984.026	4294260.158	7211	21-Dec-13	ALEX122113.SSF	570104.9091	37267
721984.336	4294259.562	6603	21-Dec-13	ALEX122113.SSF	570105.845	37268
721984.346	4294259.265	6090	21-Dec-13	ALEX122113.SSF	570106.869	37269
721984.397	4294259.309	5658	21-Dec-13	ALEX122113.SSF	570107.77	37270
721984.374	4294259.399	5995	21-Dec-13	ALEX122113.SSF	570108.897	37271
721984.387	4294259.41	6237	21-Dec-13	ALEX122113.SSF	570109.825	37272
721984.518	4294259.161	6839	21-Dec-13	ALEX122113.SSF	570110.8831	37273
721984.91	4294258.549	6600	21-Dec-13	ALEX122113.SSF	570111.804	37274
721985.541	4294257.851	7200	21-Dec-13	ALEX122113.SSF	570112.847	37275
721986.1	4294257.25	6420	21-Dec-13	ALEX122113.SSF	570113.776	37276
721986.745	4294256.562	6885	21-Dec-13	ALEX122113.SSF	570114.825	37277
721987.208	4294256.114	6521	21-Dec-13	ALEX122113.SSF	570115.755	37278
721987.807	4294255.609	6190	21-Dec-13	ALEX122113.SSF	570116.929	37279
721988.332	4294255.056	7067	21-Dec-13	ALEX122113.SSF	570117.83	37280
721988.729	4294254.338	8006	21-Dec-13	ALEX122113.SSF	570118.855	37281
721988.974	4294253.901	7191	21-Dec-13	ALEX122113.SSF	570119.791	37282
721989.348	4294253.535	7228	21-Dec-13	ALEX122113.SSF	570120.817	37283
721989.69	4294253.206	7447	21-Dec-13	ALEX122113.SSF	570121.76	37284
721990.276	4294252.664	8281	21-Dec-13	ALEX122113.SSF	570122.826	37285
721990.82	4294251.989	7620	21-Dec-13	ALEX122113.SSF	570123.761	37286
721991.413	4294251.316	7725	21-Dec-13	ALEX122113.SSF	570124.788	37287
721991.879	4294250.709	7391	21-Dec-13	ALEX122113.SSF	570125.76	37288
721992.36	4294249.957	8088	21-Dec-13	ALEX122113.SSF	570126.839	37289
721992.763	4294249.335	8202	21-Dec-13	ALEX122113.SSF	570127.788	37290
721993.499	4294248.442	7480	21-Dec-13	ALEX122113.SSF	570128.839	37291
721994.093	4294247.776	7480	21-Dec-13	ALEX122113.SSF	570129.771	37292
721994.544	4294247.16	7780	21-Dec-13	ALEX122113.SSF	570130.752	37293
721994.942	4294246.559	7675	21-Dec-13	ALEX122113.SSF	570131.75	37294
721995.512	4294245.824	7798	21-Dec-13	ALEX122113.SSF	570132.856	37295
721995.987	4294245.17	7889	21-Dec-13	ALEX122113.SSF	570133.7729	37296
721996.506	4294244.495	7972	21-Dec-13	ALEX122113.SSF	570134.855	37297

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721996.997	4294243.816	7933	21-Dec-13	ALEX122113.SSF	570135.793	37298
721997.518	4294243.071	8853	21-Dec-13	ALEX122113.SSF	570136.821	37299
721997.7	4294242.401	7733	21-Dec-13	ALEX122113.SSF	570137.827	37300
721997.852	4294241.977	8293	21-Dec-13	ALEX122113.SSF	570138.8621	37301
721998.169	4294241.83	8793	21-Dec-13	ALEX122113.SSF	570139.787	37302
721998.599	4294241.413	8888	21-Dec-13	ALEX122113.SSF	570140.8571	37303
721999.01	4294240.971	7352	21-Dec-13	ALEX122113.SSF	570141.673	37304
721999.616	4294240.395	8528	21-Dec-13	ALEX122113.SSF	570142.859	37305
721999.971	4294239.842	8582	21-Dec-13	ALEX122113.SSF	570143.775	37306
722000.601	4294239.062	8775	21-Dec-13	ALEX122113.SSF	570144.828	37307
722001.286	4294238.316	8703	21-Dec-13	ALEX122113.SSF	570145.707	37308
722001.741	4294237.545	8056	21-Dec-13	ALEX122113.SSF	570146.807	37309
722002.08	4294236.949	7864	21-Dec-13	ALEX122113.SSF	570147.71	37310
722002.724	4294236.172	8146	21-Dec-13	ALEX122113.SSF	570148.817	37311
722003.096	4294235.675	7976	21-Dec-13	ALEX122113.SSF	570149.726	37312
722003.66	4294235.022	8054	21-Dec-13	ALEX122113.SSF	570150.782	37313
722004.315	4294234.305	7293	21-Dec-13	ALEX122113.SSF	570151.688	37314
722004.787	4294233.63	7793	21-Dec-13	ALEX122113.SSF	570152.79	37315
722005.204	4294233.153	8008	21-Dec-13	ALEX122113.SSF	570153.7159	37316
722005.952	4294232.328	7702	21-Dec-13	ALEX122113.SSF	570154.858	37317
722006.589	4294231.551	8855	21-Dec-13	ALEX122113.SSF	570155.8	37318
722007.195	4294230.993	9023	21-Dec-13	ALEX122113.SSF	570156.876	37319
722007.511	4294230.504	8166	21-Dec-13	ALEX122113.SSF	570157.776	37320
722007.503	4294229.98	6781	21-Dec-13	ALEX122113.SSF	570158.941	37321
722007.447	4294229.821	8145	21-Dec-13	ALEX122113.SSF	570159.816	37322
722007.578	4294229.722	8006	21-Dec-13	ALEX122113.SSF	570160.8199	37323
722007.823	4294229.51	9171	21-Dec-13	ALEX122113.SSF	570161.827	37324
722007.542	4294229.191	8113	21-Dec-13	ALEX122113.SSF	570162.834	37325
722006.889	4294228.829	7548	21-Dec-13	ALEX122113.SSF	570163.718	37326
722006.309	4294228.289	7827	21-Dec-13	ALEX122113.SSF	570164.884	37327
722006.21	4294227.916	7776	21-Dec-13	ALEX122113.SSF	570165.709	37328
722006.33	4294227.491	8124	21-Dec-13	ALEX122113.SSF	570166.781	37329
722006.597	4294227.184	8631	21-Dec-13	ALEX122113.SSF	570167.743	37330
722006.885	4294226.682	8517	21-Dec-13	ALEX122113.SSF	570168.818	37331
722007.097	4294226.017	8369	21-Dec-13	ALEX122113.SSF	570169.694	37332
722007.314	4294225.41	7402	21-Dec-13	ALEX122113.SSF	570170.843	37333
722007.395	4294225.339	8750	21-Dec-13	ALEX122113.SSF	570171.708	37334
722007.43	4294225.451	6777	21-Dec-13	ALEX122113.SSF	570172.766	37335
722007.632	4294225.556	8534	21-Dec-13	ALEX122113.SSF	570173.771	37336
722008.043	4294225.299	8253	21-Dec-13	ALEX122113.SSF	570174.769	37337
722008.464	4294224.872	8333	21-Dec-13	ALEX122113.SSF	570175.697	37338
722009.105	4294224.353	8743	21-Dec-13	ALEX122113.SSF	570176.851	37339
722009.505	4294224.019	8216	21-Dec-13	ALEX122113.SSF	570177.73	37340
722009.797	4294223.565	7514	21-Dec-13	ALEX122113.SSF	570178.843	37341
722010.174	4294223.127	7458	21-Dec-13	ALEX122113.SSF	570179.771	37342
722010.659	4294222.643	7984	21-Dec-13	ALEX122113.SSF	570180.845	37343
722010.997	4294222.234	9496	21-Dec-13	ALEX122113.SSF	570181.7419	37344

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722011.638	4294221.693	8584	21-Dec-13	ALEX122113.SSF	570182.873	37345
722012.239	4294221.176	8776	21-Dec-13	ALEX122113.SSF	570183.812	37346
722012.809	4294220.669	7984	21-Dec-13	ALEX122113.SSF	570184.847	37347
722013.229	4294220.019	7396	21-Dec-13	ALEX122113.SSF	570185.821	37348
722013.617	4294219.3	7489	21-Dec-13	ALEX122113.SSF	570186.939	37349
722014.01	4294218.878	8082	21-Dec-13	ALEX122113.SSF	570187.786	37350
722014.373	4294218.57	7660	21-Dec-13	ALEX122113.SSF	570188.816	37351
722014.444	4294218.303	7945	21-Dec-13	ALEX122113.SSF	570189.786	37352
722014.258	4294218.09	7056	21-Dec-13	ALEX122113.SSF	570190.8199	37353
722014.3	4294218.007	7314	21-Dec-13	ALEX122113.SSF	570191.698	37354
722014.489	4294217.895	7318	21-Dec-13	ALEX122113.SSF	570192.844	37355
722014.722	4294217.857	6899	21-Dec-13	ALEX122113.SSF	570193.739	37356
722014.828	4294217.856	7635	21-Dec-13	ALEX122113.SSF	570194.7939	37357
722014.792	4294217.968	8448	21-Dec-13	ALEX122113.SSF	570195.746	37358
722014.483	4294218.144	7512	21-Dec-13	ALEX122113.SSF	570196.8831	37359
722014.573	4294218.022	7038	21-Dec-13	ALEX122113.SSF	570197.817	37360
722014.997	4294217.679	7249	21-Dec-13	ALEX122113.SSF	570198.868	37361
722015.11	4294217.49	6732	21-Dec-13	ALEX122113.SSF	570199.8149	37362
722014.987	4294217.398	7053	21-Dec-13	ALEX122113.SSF	570200.839	37363
722014.792	4294217.469	6653	21-Dec-13	ALEX122113.SSF	570201.766	37364
722014.656	4294217.558	7903	21-Dec-13	ALEX122113.SSF	570202.845	37365
722014.514	4294217.967	7676	21-Dec-13	ALEX122113.SSF	570203.707	37366
722014.878	4294218.836	7169	21-Dec-13	ALEX122113.SSF	570204.8199	37367
722015.744	4294219.156	7852	21-Dec-13	ALEX122113.SSF	570205.749	37368
722016.697	4294218.827	8173	21-Dec-13	ALEX122113.SSF	570206.849	37369
722017.103	4294218.004	8163	21-Dec-13	ALEX122113.SSF	570207.757	37370
722017.097	4294217.07	8070	21-Dec-13	ALEX122113.SSF	570208.8459	37371
722016.408	4294216.677	7447	21-Dec-13	ALEX122113.SSF	570209.809	37372
722015.606	4294216.383	6962	21-Dec-13	ALEX122113.SSF	570210.8719	37373
722015.464	4294216.289	7590	21-Dec-13	ALEX122113.SSF	570211.812	37374
722015.781	4294215.877	6937	21-Dec-13	ALEX122113.SSF	570212.908	37375
722016.298	4294215.579	7434	21-Dec-13	ALEX122113.SSF	570213.7889	37376
722016.765	4294215.216	7408	21-Dec-13	ALEX122113.SSF	570214.8621	37377
722017.046	4294214.847	7852	21-Dec-13	ALEX122113.SSF	570215.795	37378
722017.532	4294214.324	7663	21-Dec-13	ALEX122113.SSF	570216.886	37379
722018.058	4294213.808	7135	21-Dec-13	ALEX122113.SSF	570217.7371	37380
722018.61	4294213.097	7694	21-Dec-13	ALEX122113.SSF	570218.817	37381
722019.031	4294212.547	8493	21-Dec-13	ALEX122113.SSF	570219.7321	37382
722019.654	4294211.764	9413	21-Dec-13	ALEX122113.SSF	570220.798	37383
722020.172	4294211.043	7933	21-Dec-13	ALEX122113.SSF	570221.762	37384
722020.638	4294210.336	7833	21-Dec-13	ALEX122113.SSF	570222.912	37385
722020.862	4294209.799	8228	21-Dec-13	ALEX122113.SSF	570223.757	37386
722021.147	4294209.264	8387	21-Dec-13	ALEX122113.SSF	570224.764	37387
722021.623	4294208.735	8186	21-Dec-13	ALEX122113.SSF	570225.7729	37388
722022.086	4294208.008	7776	21-Dec-13	ALEX122113.SSF	570226.8781	37389
722022.623	4294207.602	7944	21-Dec-13	ALEX122113.SSF	570227.736	37390
722023.215	4294206.949	8346	21-Dec-13	ALEX122113.SSF	570228.795	37391

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722023.553	4294206.3	7876	21-Dec-13	ALEX122113.SSF	570229.7321	37392
722024.029	4294205.677	8119	21-Dec-13	ALEX122113.SSF	570230.7729	37393
722024.589	4294205.154	7819	21-Dec-13	ALEX122113.SSF	570231.759	37394
722025.107	4294204.693	7235	21-Dec-13	ALEX122113.SSF	570232.772	37395
722025.359	4294204.168	7718	21-Dec-13	ALEX122113.SSF	570233.73	37396
722025.581	4294203.403	8109	21-Dec-13	ALEX122113.SSF	570234.845	37397
722025.747	4294202.695	7787	21-Dec-13	ALEX122113.SSF	570235.725	37398
722025.899	4294201.95	7466	21-Dec-13	ALEX122113.SSF	570236.79	37399
722026.09	4294201.467	7296	21-Dec-13	ALEX122113.SSF	570237.666	37400
722026.445	4294200.852	7824	21-Dec-13	ALEX122113.SSF	570238.772	37401
722026.949	4294200.448	7026	21-Dec-13	ALEX122113.SSF	570239.7629	37402
722027.56	4294200.303	8446	21-Dec-13	ALEX122113.SSF	570240.824	37403
722028.049	4294200.049	7961	21-Dec-13	ALEX122113.SSF	570241.723	37404
722028.685	4294199.513	8020	21-Dec-13	ALEX122113.SSF	570242.8199	37405
722029.152	4294199.132	8215	21-Dec-13	ALEX122113.SSF	570243.724	37406
722029.384	4294198.85	6853	21-Dec-13	ALEX122113.SSF	570244.827	37407
722029.342	4294198.766	7623	21-Dec-13	ALEX122113.SSF	570245.764	37408
722029.298	4294198.704	7965	21-Dec-13	ALEX122113.SSF	570246.8	37409
722029.4	4294198.583	7241	21-Dec-13	ALEX122113.SSF	570247.718	37410
722029.553	4294198.209	8020	21-Dec-13	ALEX122113.SSF	570248.786	37411
722029.891	4294197.688	7345	21-Dec-13	ALEX122113.SSF	570249.712	37412
722030.45	4294196.937	9156	21-Dec-13	ALEX122113.SSF	570250.839	37413
722031.033	4294196.275	7989	21-Dec-13	ALEX122113.SSF	570251.788	37414
722031.589	4294195.561	7997	21-Dec-13	ALEX122113.SSF	570252.843	37415
722032.154	4294194.948	7999	21-Dec-13	ALEX122113.SSF	570253.777	37416
722032.769	4294194.333	8299	21-Dec-13	ALEX122113.SSF	570254.882	37417
722033.054	4294193.828	8885	21-Dec-13	ALEX122113.SSF	570255.666	37418
722033.615	4294193.003	8911	21-Dec-13	ALEX122113.SSF	570256.76	37419
722034.196	4294192.369	7267	21-Dec-13	ALEX122113.SSF	570257.678	37420
722034.827	4294191.615	7487	21-Dec-13	ALEX122113.SSF	570258.776	37421
722035.291	4294190.996	8711	21-Dec-13	ALEX122113.SSF	570259.691	37422
722035.897	4294190.304	9708	21-Dec-13	ALEX122113.SSF	570260.86	37423
722036.374	4294189.688	9507	21-Dec-13	ALEX122113.SSF	570261.734	37424
722037.011	4294188.833	9096	21-Dec-13	ALEX122113.SSF	570262.842	37425
722037.58	4294188.242	8814	21-Dec-13	ALEX122113.SSF	570263.72	37426
722038.303	4294187.509	8083	21-Dec-13	ALEX122113.SSF	570264.864	37427
722038.739	4294186.974	8321	21-Dec-13	ALEX122113.SSF	570265.667	37428
722039.403	4294186.253	7540	21-Dec-13	ALEX122113.SSF	570266.7729	37429
722039.994	4294185.689	7255	21-Dec-13	ALEX122113.SSF	570267.73	37430
722040.539	4294185.099	8113	21-Dec-13	ALEX122113.SSF	570268.738	37431
722041.159	4294184.369	7938	21-Dec-13	ALEX122113.SSF	570269.74	37432
722041.812	4294183.694	8404	21-Dec-13	ALEX122113.SSF	570270.7581	37433
722042.234	4294183.068	7891	21-Dec-13	ALEX122113.SSF	570271.689	37434
722042.636	4294182.129	6562	21-Dec-13	ALEX122113.SSF	570272.822	37435
722043.095	4294181.372	7730	21-Dec-13	ALEX122113.SSF	570273.731	37436
722043.699	4294180.535	6732	21-Dec-13	ALEX122113.SSF	570274.833	37437
722044.165	4294179.888	7173	21-Dec-13	ALEX122113.SSF	570275.726	37438

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722044.758	4294179.233	6473	21-Dec-13	ALEX122113.SSF	570276.826	37439
722045.283	4294178.671	6328	21-Dec-13	ALEX122113.SSF	570277.728	37440
722045.842	4294177.897	6022	21-Dec-13	ALEX122113.SSF	570278.832	37441
722046.425	4294177.411	5990	21-Dec-13	ALEX122113.SSF	570279.743	37442
722047.014	4294176.987	7271	21-Dec-13	ALEX122113.SSF	570280.731	37443
722047.472	4294176.444	8117	21-Dec-13	ALEX122113.SSF	570281.731	37444
722047.955	4294175.727	8179	21-Dec-13	ALEX122113.SSF	570282.719	37445
722048.432	4294175.13	7024	21-Dec-13	ALEX122113.SSF	570283.7209	37446
722048.81	4294174.642	7696	21-Dec-13	ALEX122113.SSF	570284.7469	37447
722049.242	4294173.987	8074	21-Dec-13	ALEX122113.SSF	570285.734	37448
722049.751	4294173.08	7238	21-Dec-13	ALEX122113.SSF	570286.8459	37449
722049.988	4294172.402	6459	21-Dec-13	ALEX122113.SSF	570287.7841	37450
722050.212	4294171.793	6685	21-Dec-13	ALEX122113.SSF	570288.809	37451
722050.432	4294171.187	6561	21-Dec-13	ALEX122113.SSF	570289.788	37452
722050.826	4294170.443	7220	21-Dec-13	ALEX122113.SSF	570290.743	37453
722051.286	4294169.732	6695	21-Dec-13	ALEX122113.SSF	570291.6851	37454
722051.612	4294169	6803	21-Dec-13	ALEX122113.SSF	570292.73	37455
722051.853	4294168.257	6681	21-Dec-13	ALEX122113.SSF	570293.673	37456
722052.134	4294167.449	6180	21-Dec-13	ALEX122113.SSF	570294.797	37457
722052.229	4294166.938	6375	21-Dec-13	ALEX122113.SSF	570295.7469	37458
722052.216	4294166.293	6453	21-Dec-13	ALEX122113.SSF	570296.756	37459
722052.05	4294165.536	6923	21-Dec-13	ALEX122113.SSF	570297.7371	37460
722051.825	4294164.643	5931	21-Dec-13	ALEX122113.SSF	570298.749	37461
722051.72	4294163.809	5869	21-Dec-13	ALEX122113.SSF	570299.723	37462
722051.616	4294162.871	6256	21-Dec-13	ALEX122113.SSF	570300.843	37463
722051.552	4294162.235	6784	21-Dec-13	ALEX122113.SSF	570301.697	37464
722051.439	4294161.391	5679	21-Dec-13	ALEX122113.SSF	570302.8149	37465
722051.22	4294160.546	5549	21-Dec-13	ALEX122113.SSF	570303.775	37466
722051.068	4294159.634	5746	21-Dec-13	ALEX122113.SSF	570304.845	37467
722051.083	4294158.894	5865	21-Dec-13	ALEX122113.SSF	570305.731	37468
722051.111	4294157.878	5639	21-Dec-13	ALEX122113.SSF	570306.7729	37469
722051.061	4294156.957	5954	21-Dec-13	ALEX122113.SSF	570307.709	37470
722050.933	4294156.092	5458	21-Dec-13	ALEX122113.SSF	570308.797	37471
722050.954	4294155.527	5770	21-Dec-13	ALEX122113.SSF	570309.6541	37472
722051.109	4294155.054	6073	21-Dec-13	ALEX122113.SSF	570310.74	37473
722051.106	4294154.69	5712	21-Dec-13	ALEX122113.SSF	570311.632	37474
722050.853	4294153.83	5547	21-Dec-13	ALEX122113.SSF	570312.804	37475
722050.777	4294152.984	6202	21-Dec-13	ALEX122113.SSF	570313.66	37476
722050.86	4294152.071	5780	21-Dec-13	ALEX122113.SSF	570314.785	37477
722050.901	4294151.68	6056	21-Dec-13	ALEX122113.SSF	570315.691	37478
722051.005	4294151.434	5991	21-Dec-13	ALEX122113.SSF	570316.849	37479
722051.042	4294151.502	5891	21-Dec-13	ALEX122113.SSF	570317.746	37480
722051.061	4294151.717	6261	21-Dec-13	ALEX122113.SSF	570318.814	37481
722051.139	4294151.801	7505	21-Dec-13	ALEX122113.SSF	570319.736	37482
722051.321	4294151.959	6226	21-Dec-13	ALEX122113.SSF	570320.8459	37483
722051.68	4294152.167	6533	21-Dec-13	ALEX122113.SSF	570321.746	37484
722052.128	4294152.667	6047	21-Dec-13	ALEX122113.SSF	570322.8409	37485

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722052.277	4294153.21	7277	21-Dec-13	ALEX122113.SSF	570323.76	37486
722052.491	4294153.906	6589	21-Dec-13	ALEX122113.SSF	570324.8571	37487
722052.701	4294154.324	6987	21-Dec-13	ALEX122113.SSF	570325.655	37488
722053.013	4294155.132	6187	21-Dec-13	ALEX122113.SSF	570326.774	37489
722053.443	4294155.795	7546	21-Dec-13	ALEX122113.SSF	570327.743	37490
722054.035	4294156.551	8246	21-Dec-13	ALEX122113.SSF	570328.821	37491
722054.607	4294157.019	6951	21-Dec-13	ALEX122113.SSF	570329.723	37492
722055.311	4294157.419	7348	21-Dec-13	ALEX122113.SSF	570330.756	37493
722055.912	4294157.792	8047	21-Dec-13	ALEX122113.SSF	570331.662	37494
722056.48	4294158.035	9541	21-Dec-13	ALEX122113.SSF	570332.797	37495
722056.863	4294157.956	9225	21-Dec-13	ALEX122113.SSF	570333.6949	37496
722057.493	4294157.864	8816	21-Dec-13	ALEX122113.SSF	570334.7321	37497
722058.155	4294157.947	9074	21-Dec-13	ALEX122113.SSF	570335.697	37498
722058.877	4294158.159	9378	21-Dec-13	ALEX122113.SSF	570336.729	37499
722059.453	4294158.365	10024	21-Dec-13	ALEX122113.SSF	570337.698	37500
722059.815	4294158.481	9976	21-Dec-13	ALEX122113.SSF	570338.746	37501
722059.898	4294158.486	10054	21-Dec-13	ALEX122113.SSF	570339.698	37502
722059.911	4294158.531	9353	21-Dec-13	ALEX122113.SSF	570340.822	37503
722060.104	4294158.529	9178	21-Dec-13	ALEX122113.SSF	570341.687	37504
722060.439	4294158.706	10034	21-Dec-13	ALEX122113.SSF	570342.75	37505
722060.656	4294158.903	9978	21-Dec-13	ALEX122113.SSF	570343.75	37506
722060.741	4294159.052	10024	21-Dec-13	ALEX122113.SSF	570344.75	37507
722060.821	4294159.101	9196	21-Dec-13	ALEX122113.SSF	570345.73	37508
722061.054	4294159.088	9919	21-Dec-13	ALEX122113.SSF	570346.745	37509
722061.207	4294159.078	9379	21-Dec-13	ALEX122113.SSF	570347.734	37510
722061.324	4294158.936	9635	21-Dec-13	ALEX122113.SSF	570348.786	37511
722061.273	4294158.829	9248	21-Dec-13	ALEX122113.SSF	570349.735	37512
722061.243	4294158.789	8822	21-Dec-13	ALEX122113.SSF	570350.796	37513
722061.203	4294158.788	8265	21-Dec-13	ALEX122113.SSF	570351.672	37514
722061.125	4294158.791	7766	21-Dec-13	ALEX122113.SSF	570352.781	37515
722061.062	4294158.8	8301	21-Dec-13	ALEX122113.SSF	570353.734	37516
722061.042	4294158.796	8585	21-Dec-13	ALEX122113.SSF	570354.814	37517
722061.077	4294158.759	7966	21-Dec-13	ALEX122113.SSF	570355.702	37518
722061.098	4294158.725	8351	21-Dec-13	ALEX122113.SSF	570356.803	37519
722061.094	4294158.718	9288	21-Dec-13	ALEX122113.SSF	570357.7	37520
722061.095	4294158.725	8412	21-Dec-13	ALEX122113.SSF	570358.798	37521
722061.087	4294158.744	9063	21-Dec-13	ALEX122113.SSF	570359.722	37522
722061.075	4294158.765	8085	21-Dec-13	ALEX122113.SSF	570360.8361	37523
722061.069	4294158.78	8021	21-Dec-13	ALEX122113.SSF	570361.749	37524
722061.087	4294158.787	9475	21-Dec-13	ALEX122113.SSF	570362.755	37525
722061.105	4294158.787	9089	21-Dec-13	ALEX122113.SSF	570363.715	37526
722061.097	4294158.792	8032	21-Dec-13	ALEX122113.SSF	570364.769	37527
722061.08	4294158.789	9298	21-Dec-13	ALEX122113.SSF	570365.6219	37528
722061.078	4294158.775	9284	21-Dec-13	ALEX122113.SSF	570366.7419	37529
722061.081	4294158.765	8951	21-Dec-13	ALEX122113.SSF	570367.6379	37530
722061.08	4294158.762	8147	21-Dec-13	ALEX122113.SSF	570368.755	37531
722061.101	4294158.754	8246	21-Dec-13	ALEX122113.SSF	570369.6689	37532

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722061.127	4294158.735	9141	21-Dec-13	ALEX122113.SSF	570370.8311	37533
722061.128	4294158.727	8585	21-Dec-13	ALEX122113.SSF	570371.6639	37534
722061.134	4294158.716	8596	21-Dec-13	ALEX122113.SSF	570372.8199	37535
722061.105	4294158.739	10039	21-Dec-13	ALEX122113.SSF	570373.754	37536
722061.026	4294158.793	9679	21-Dec-13	ALEX122113.SSF	570374.762	37537
722061.021	4294158.807	9290	21-Dec-13	ALEX122113.SSF	570375.634	37538
722061.028	4294158.794	9252	21-Dec-13	ALEX122113.SSF	570376.754	37539
722061.057	4294158.774	8673	21-Dec-13	ALEX122113.SSF	570377.661	37540
722061.086	4294158.753	9398	21-Dec-13	ALEX122113.SSF	570378.702	37541
722061.088	4294158.739	8739	21-Dec-13	ALEX122113.SSF	570379.652	37542
722061.078	4294158.732	8965	21-Dec-13	ALEX122113.SSF	570380.734	37543
722061.073	4294158.726	10401	21-Dec-13	ALEX122113.SSF	570381.656	37544
722061.07	4294158.721	9560	21-Dec-13	ALEX122113.SSF	570382.7321	37545
722061.066	4294158.715	8630	21-Dec-13	ALEX122113.SSF	570383.644	37546
722061.051	4294158.709	9477	21-Dec-13	ALEX122113.SSF	570384.744	37547
722061.037	4294158.719	9659	21-Dec-13	ALEX122113.SSF	570385.624	37548
722061.029	4294158.727	9585	21-Dec-13	ALEX122113.SSF	570386.7419	37549
722061.032	4294158.725	8456	21-Dec-13	ALEX122113.SSF	570387.594	37550
722061.033	4294158.719	9464	21-Dec-13	ALEX122113.SSF	570388.728	37551
722061.026	4294158.72	9236	21-Dec-13	ALEX122113.SSF	570389.627	37552
722061.016	4294158.723	8939	21-Dec-13	ALEX122113.SSF	570390.729	37553
722061.019	4294158.714	9674	21-Dec-13	ALEX122113.SSF	570391.585	37554
722061.033	4294158.697	9618	21-Dec-13	ALEX122113.SSF	570392.725	37555
722061.052	4294158.685	9664	21-Dec-13	ALEX122113.SSF	570393.6479	37556
722061.077	4294158.67	9706	21-Dec-13	ALEX122113.SSF	570394.658	37557
722061.079	4294158.657	9026	21-Dec-13	ALEX122113.SSF	570395.717	37558
722061.091	4294158.645	9726	21-Dec-13	ALEX122113.SSF	570396.755	37559
722061.101	4294158.632	9061	21-Dec-13	ALEX122113.SSF	570397.655	37560
722061.094	4294158.627	9705	21-Dec-13	ALEX122113.SSF	570398.762	37561
722061.088	4294158.64	8606	21-Dec-13	ALEX122113.SSF	570399.635	37562
722061.07	4294158.661	9621	21-Dec-13	ALEX122113.SSF	570400.7469	37563
722061.12	4294158.664	9155	21-Dec-13	ALEX122113.SSF	570401.7419	37564
722061.165	4294158.663	9368	21-Dec-13	ALEX122113.SSF	570402.754	37565
722061.177	4294158.661	8222	21-Dec-13	ALEX122113.SSF	570403.701	37566
722061.171	4294158.668	10065	21-Dec-13	ALEX122113.SSF	570404.775	37567
722061.165	4294158.68	9266	21-Dec-13	ALEX122113.SSF	570405.631	37568
722061.165	4294158.697	8946	21-Dec-13	ALEX122113.SSF	570406.746	37569
722061.174	4294158.706	9526	21-Dec-13	ALEX122113.SSF	570407.641	37570
722061.189	4294158.715	8471	21-Dec-13	ALEX122113.SSF	570408.736	37571
722061.203	4294158.717	9738	21-Dec-13	ALEX122113.SSF	570409.661	37572
722061.213	4294158.717	7954	21-Dec-13	ALEX122113.SSF	570410.816	37573
722061.218	4294158.722	8438	21-Dec-13	ALEX122113.SSF	570411.718	37574
722061.22	4294158.731	8529	21-Dec-13	ALEX122113.SSF	570412.735	37575
722061.226	4294158.738	8642	21-Dec-13	ALEX122113.SSF	570413.72	37576
722061.233	4294158.746	7800	21-Dec-13	ALEX122113.SSF	570414.749	37577
722061.233	4294158.757	8880	21-Dec-13	ALEX122113.SSF	570415.693	37578
722061.23	4294158.772	9150	21-Dec-13	ALEX122113.SSF	570416.752	37579

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722061.233	4294158.775	8917	21-Dec-13	ALEX122113.SSF	570417.655	37580
722061.239	4294158.771	8439	21-Dec-13	ALEX122113.SSF	570418.75	37581
722061.224	4294158.764	7660	21-Dec-13	ALEX122113.SSF	570419.7209	37582
722061.221	4294158.758	8275	21-Dec-13	ALEX122113.SSF	570420.718	37583
722061.224	4294158.752	8638	21-Dec-13	ALEX122113.SSF	570421.719	37584
722061.246	4294158.738	8789	21-Dec-13	ALEX122113.SSF	570422.746	37585
722061.242	4294158.732	8647	21-Dec-13	ALEX122113.SSF	570423.645	37586
722061.225	4294158.723	8971	21-Dec-13	ALEX122113.SSF	570424.765	37587
722061.217	4294158.715	9142	21-Dec-13	ALEX122113.SSF	570425.619	37588
722061.198	4294158.717	8105	21-Dec-13	ALEX122113.SSF	570426.684	37589
722061.176	4294158.724	9226	21-Dec-13	ALEX122113.SSF	570427.67	37590
722061.163	4294158.721	9686	21-Dec-13	ALEX122113.SSF	570428.761	37591
722061.155	4294158.713	9771	21-Dec-13	ALEX122113.SSF	570429.665	37592
722061.132	4294158.72	8383	21-Dec-13	ALEX122113.SSF	570430.7159	37593
722061.105	4294158.732	9175	21-Dec-13	ALEX122113.SSF	570431.6169	37594
722061.087	4294158.746	8714	21-Dec-13	ALEX122113.SSF	570432.7209	37595
722061.083	4294158.74	9288	21-Dec-13	ALEX122113.SSF	570433.649	37596
722061.088	4294158.728	8832	21-Dec-13	ALEX122113.SSF	570434.751	37597
722061.081	4294158.725	8328	21-Dec-13	ALEX122113.SSF	570435.636	37598
722061.07	4294158.722	8772	21-Dec-13	ALEX122113.SSF	570436.726	37599
722061.066	4294158.717	9483	21-Dec-13	ALEX122113.SSF	570437.63	37600
722061.068	4294158.712	9420	21-Dec-13	ALEX122113.SSF	570438.735	37601
722061.071	4294158.712	8805	21-Dec-13	ALEX122113.SSF	570439.668	37602
722061.059	4294158.722	8951	21-Dec-13	ALEX122113.SSF	570440.798	37603
722061.05	4294158.733	8688	21-Dec-13	ALEX122113.SSF	570441.708	37604
722061.04	4294158.741	9582	21-Dec-13	ALEX122113.SSF	570442.7531	37605
722061.033	4294158.743	9565	21-Dec-13	ALEX122113.SSF	570443.6479	37606
722061.019	4294158.745	9081	21-Dec-13	ALEX122113.SSF	570444.75	37607
722061.02	4294158.738	9650	21-Dec-13	ALEX122113.SSF	570445.627	37608
722060.999	4294158.736	10302	21-Dec-13	ALEX122113.SSF	570446.729	37609
722061	4294158.73	10495	21-Dec-13	ALEX122113.SSF	570447.642	37610
722061.011	4294158.725	9164	21-Dec-13	ALEX122113.SSF	570448.746	37611
722061.012	4294158.717	8531	21-Dec-13	ALEX122113.SSF	570449.647	37612
722061.025	4294158.719	10112	21-Dec-13	ALEX122113.SSF	570450.738	37613
722061.043	4294158.728	9308	21-Dec-13	ALEX122113.SSF	570451.5959	37614
722061.058	4294158.745	9077	21-Dec-13	ALEX122113.SSF	570452.702	37615
722061.064	4294158.753	9079	21-Dec-13	ALEX122113.SSF	570453.6379	37616
722061.061	4294158.759	7429	21-Dec-13	ALEX122113.SSF	570454.709	37617
722061.058	4294158.765	8547	21-Dec-13	ALEX122113.SSF	570455.658	37618
722061.059	4294158.766	8767	21-Dec-13	ALEX122113.SSF	570456.687	37619
722061.055	4294158.761	8523	21-Dec-13	ALEX122113.SSF	570457.615	37620
722061.053	4294158.757	8640	21-Dec-13	ALEX122113.SSF	570458.713	37621
722061.051	4294158.76	9390	21-Dec-13	ALEX122113.SSF	570459.698	37622
722061.048	4294158.762	8977	21-Dec-13	ALEX122113.SSF	570460.743	37623
722061.054	4294158.764	9534	21-Dec-13	ALEX122113.SSF	570461.724	37624
722061.055	4294158.765	9043	21-Dec-13	ALEX122113.SSF	570462.751	37625
722061.051	4294158.763	8681	21-Dec-13	ALEX122113.SSF	570463.708	37626

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722061.053	4294158.765	9130	21-Dec-13	ALEX122113.SSF	570464.743	37627
722061.055	4294158.768	8912	21-Dec-13	ALEX122113.SSF	570465.65	37628
722061.049	4294158.771	9788	21-Dec-13	ALEX122113.SSF	570466.793	37629
722061.042	4294158.771	9527	21-Dec-13	ALEX122113.SSF	570467.7111	37630
722061.036	4294158.772	10391	21-Dec-13	ALEX122113.SSF	570468.767	37631
722061.031	4294158.776	10878	21-Dec-13	ALEX122113.SSF	570469.708	37632
722061.025	4294158.782	9349	21-Dec-13	ALEX122113.SSF	570470.76	37633
722061.029	4294158.79	9957	21-Dec-13	ALEX122113.SSF	570471.7	37634
722061.033	4294158.8	10409	21-Dec-13	ALEX122113.SSF	570472.7581	37635
722061.026	4294158.803	8662	21-Dec-13	ALEX122113.SSF	570473.634	37636
722060.993	4294158.822	8525	21-Dec-13	ALEX122113.SSF	570474.79	37637
722060.958	4294158.845	8761	21-Dec-13	ALEX122113.SSF	570475.675	37638
722060.949	4294158.846	8790	21-Dec-13	ALEX122113.SSF	570476.793	37639
722060.963	4294158.829	8617	21-Dec-13	ALEX122113.SSF	570477.6429	37640
722060.989	4294158.798	8754	21-Dec-13	ALEX122113.SSF	570478.7791	37641
722060.995	4294158.79	8608	21-Dec-13	ALEX122113.SSF	570479.66	37642
722061.006	4294158.785	8482	21-Dec-13	ALEX122113.SSF	570480.741	37643
722061.017	4294158.777	8960	21-Dec-13	ALEX122113.SSF	570481.62	37644
722061.015	4294158.765	9410	21-Dec-13	ALEX122113.SSF	570482.772	37645
722061.01	4294158.761	8892	21-Dec-13	ALEX122113.SSF	570483.627	37646
722061.011	4294158.76	9393	21-Dec-13	ALEX122113.SSF	570484.748	37647
722061.012	4294158.761	9188	21-Dec-13	ALEX122113.SSF	570485.614	37648
722061.008	4294158.757	10367	21-Dec-13	ALEX122113.SSF	570486.705	37649
722061.01	4294158.753	9371	21-Dec-13	ALEX122113.SSF	570487.601	37650
722061.022	4294158.75	9063	21-Dec-13	ALEX122113.SSF	570488.7	37651
722061.034	4294158.748	9045	21-Dec-13	ALEX122113.SSF	570489.647	37652
722061.045	4294158.747	9371	21-Dec-13	ALEX122113.SSF	570490.729	37653
722061.047	4294158.749	9153	21-Dec-13	ALEX122113.SSF	570491.637	37654
722061.038	4294158.746	8348	21-Dec-13	ALEX122113.SSF	570492.746	37655
722061.03	4294158.746	8237	21-Dec-13	ALEX122113.SSF	570493.5649	37656
722061.017	4294158.744	9199	21-Dec-13	ALEX122113.SSF	570494.709	37657
722060.946	4294158.769	9049	21-Dec-13	ALEX122113.SSF	570495.6021	37658
722060.887	4294158.79	8832	21-Dec-13	ALEX122113.SSF	570496.634	37659
722060.851	4294158.802	9918	21-Dec-13	ALEX122113.SSF	570497.608	37660
722060.767	4294158.827	9859	21-Dec-13	ALEX122113.SSF	570498.717	37661
722060.751	4294158.83	9484	21-Dec-13	ALEX122113.SSF	570499.5909	37662
722060.73	4294158.83	8671	21-Dec-13	ALEX122113.SSF	570500.718	37663
722060.745	4294158.806	8197	21-Dec-13	ALEX122113.SSF	570501.6021	37664
722060.777	4294158.784	9369	21-Dec-13	ALEX122113.SSF	570502.698	37665
722060.744	4294158.795	10442	21-Dec-13	ALEX122113.SSF	570503.58	37666
722060.675	4294158.817	9810	21-Dec-13	ALEX122113.SSF	570504.739	37667
722060.74	4294158.787	8692	21-Dec-13	ALEX122113.SSF	570505.64	37668
722060.798	4294158.748	8713	21-Dec-13	ALEX122113.SSF	570506.694	37669
722060.815	4294158.735	8598	21-Dec-13	ALEX122113.SSF	570507.627	37670
722060.802	4294158.729	8389	21-Dec-13	ALEX122113.SSF	570508.7111	37671
722060.768	4294158.746	8457	21-Dec-13	ALEX122113.SSF	570509.615	37672
722060.737	4294158.757	8354	21-Dec-13	ALEX122113.SSF	570510.613	37673

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722060.721	4294158.758	8688	21-Dec-13	ALEX122113.SSF	570511.59	37674
722060.725	4294158.763	9012	21-Dec-13	ALEX122113.SSF	570512.637	37675
722060.704	4294158.765	9273	21-Dec-13	ALEX122113.SSF	570513.558	37676
722060.669	4294158.766	8768	21-Dec-13	ALEX122113.SSF	570514.677	37677
722060.667	4294158.747	9542	21-Dec-13	ALEX122113.SSF	570515.632	37678
722060.692	4294158.722	9495	21-Dec-13	ALEX122113.SSF	570516.735	37679
722060.706	4294158.705	9333	21-Dec-13	ALEX122113.SSF	570517.621	37680
722060.719	4294158.672	8873	21-Dec-13	ALEX122113.SSF	570518.655	37681
722060.74	4294158.641	8338	21-Dec-13	ALEX122113.SSF	570519.609	37682
722060.758	4294158.618	9194	21-Dec-13	ALEX122113.SSF	570520.709	37683
722060.768	4294158.606	8898	21-Dec-13	ALEX122113.SSF	570521.61	37684
722060.752	4294158.617	9394	21-Dec-13	ALEX122113.SSF	570522.705	37685
722060.717	4294158.623	8798	21-Dec-13	ALEX122113.SSF	570523.588	37686
722060.731	4294158.601	10089	21-Dec-13	ALEX122113.SSF	570524.696	37687
722060.74	4294158.601	9872	21-Dec-13	ALEX122113.SSF	570525.635	37688
722060.745	4294158.624	9578	21-Dec-13	ALEX122113.SSF	570526.697	37689
722060.738	4294158.629	9834	21-Dec-13	ALEX122113.SSF	570527.624	37690
722060.728	4294158.636	8398	21-Dec-13	ALEX122113.SSF	570528.725	37691
722060.717	4294158.651	8819	21-Dec-13	ALEX122113.SSF	570529.671	37692
722060.69	4294158.662	8895	21-Dec-13	ALEX122113.SSF	570530.78	37693
722060.663	4294158.666	8793	21-Dec-13	ALEX122113.SSF	570531.699	37694
722060.66	4294158.653	9638	21-Dec-13	ALEX122113.SSF	570532.688	37695
722060.676	4294158.636	9729	21-Dec-13	ALEX122113.SSF	570533.62	37696
722060.695	4294158.624	9242	21-Dec-13	ALEX122113.SSF	570534.733	37697
722060.697	4294158.625	9150	21-Dec-13	ALEX122113.SSF	570535.6479	37698
722060.7	4294158.623	8407	21-Dec-13	ALEX122113.SSF	570536.739	37699
722060.71	4294158.615	8672	21-Dec-13	ALEX122113.SSF	570537.615	37700
722060.718	4294158.6	8738	21-Dec-13	ALEX122113.SSF	570538.7159	37701
722060.738	4294158.582	8694	21-Dec-13	ALEX122113.SSF	570539.616	37702
722060.77	4294158.573	8743	21-Dec-13	ALEX122113.SSF	570540.7729	37703
722060.775	4294158.581	8992	21-Dec-13	ALEX122113.SSF	570541.642	37704
722060.779	4294158.591	9119	21-Dec-13	ALEX122113.SSF	570542.743	37705
722060.779	4294158.602	8609	21-Dec-13	ALEX122113.SSF	570543.609	37706
722060.779	4294158.617	9832	21-Dec-13	ALEX122113.SSF	570544.7469	37707
722060.794	4294158.626	9088	21-Dec-13	ALEX122113.SSF	570545.668	37708
722060.799	4294158.638	8902	21-Dec-13	ALEX122113.SSF	570546.7581	37709
722060.788	4294158.659	9095	21-Dec-13	ALEX122113.SSF	570547.675	37710
722060.778	4294158.686	9323	21-Dec-13	ALEX122113.SSF	570548.76	37711
722060.751	4294158.716	9861	21-Dec-13	ALEX122113.SSF	570549.658	37712
722060.725	4294158.726	9335	21-Dec-13	ALEX122113.SSF	570550.708	37713
722060.71	4294158.747	8903	21-Dec-13	ALEX122113.SSF	570551.6331	37714
722060.699	4294158.779	8616	21-Dec-13	ALEX122113.SSF	570552.6379	37715
722060.688	4294158.816	10074	21-Dec-13	ALEX122113.SSF	570553.611	37716
722060.671	4294158.855	8638	21-Dec-13	ALEX122113.SSF	570554.71	37717
722060.668	4294158.88	8669	21-Dec-13	ALEX122113.SSF	570555.615	37718
722060.671	4294158.914	9097	21-Dec-13	ALEX122113.SSF	570556.724	37719
722060.674	4294158.942	8964	21-Dec-13	ALEX122113.SSF	570557.6071	37720

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722060.663	4294158.97	8871	21-Dec-13	ALEX122113.SSF	570558.689	37721
722060.687	4294158.975	9475	21-Dec-13	ALEX122113.SSF	570559.635	37722
722060.72	4294158.965	8579	21-Dec-13	ALEX122113.SSF	570560.701	37723
722060.727	4294158.964	10275	21-Dec-13	ALEX122113.SSF	570561.609	37724
722060.732	4294158.925	9498	21-Dec-13	ALEX122113.SSF	570562.6899	37725
722060.735	4294158.927	8644	21-Dec-13	ALEX122113.SSF	570563.592	37726
722060.725	4294158.9	8971	21-Dec-13	ALEX122113.SSF	570564.652	37727
722060.706	4294158.843	9322	21-Dec-13	ALEX122113.SSF	570565.642	37728
722060.703	4294158.793	9530	21-Dec-13	ALEX122113.SSF	570566.7419	37729
722060.695	4294158.769	9102	21-Dec-13	ALEX122113.SSF	570567.6591	37730
722060.699	4294158.752	8215	21-Dec-13	ALEX122113.SSF	570568.755	37731
722060.729	4294158.733	9614	21-Dec-13	ALEX122113.SSF	570569.681	37732
722060.765	4294158.71	8913	21-Dec-13	ALEX122113.SSF	570570.714	37733
722060.769	4294158.694	9578	21-Dec-13	ALEX122113.SSF	570571.594	37734
722060.766	4294158.675	8514	21-Dec-13	ALEX122113.SSF	570572.624	37735
722060.769	4294158.655	8248	21-Dec-13	ALEX122113.SSF	570573.6071	37736
722060.787	4294158.463	8182	21-Dec-13	ALEX122113.SSF	570574.6479	37737
722060.709	4294158.272	8825	21-Dec-13	ALEX122113.SSF	570575.579	37738
722060.644	4294158.126	8866	21-Dec-13	ALEX122113.SSF	570576.757	37739
722060.729	4294158.06	10196	21-Dec-13	ALEX122113.SSF	570577.606	37740
722060.863	4294158.045	9779	21-Dec-13	ALEX122113.SSF	570578.681	37741
722060.986	4294158.221	10169	21-Dec-13	ALEX122113.SSF	570579.631	37742
722061.129	4294158.554	9806	21-Dec-13	ALEX122113.SSF	570580.73	37743
722061.196	4294158.789	9711	21-Dec-13	ALEX122113.SSF	570581.576	37744
722061.285	4294159.025	9837	21-Dec-13	ALEX122113.SSF	570582.636	37745
722061.349	4294159.087	8879	21-Dec-13	ALEX122113.SSF	570583.582	37746
722061.341	4294158.998	9660	21-Dec-13	ALEX122113.SSF	570584.644	37747
722061.226	4294158.84	9555	21-Dec-13	ALEX122113.SSF	570585.6071	37748
722061.31	4294158.811	8778	21-Dec-13	ALEX122113.SSF	570586.635	37749
722061.804	4294158.809	8764	21-Dec-13	ALEX122113.SSF	570587.621	37750
722062.271	4294158.808	7621	21-Dec-13	ALEX122113.SSF	570588.657	37751
722062.517	4294158.791	8655	21-Dec-13	ALEX122113.SSF	570589.541	37752
722062.879	4294158.771	9813	21-Dec-13	ALEX122113.SSF	570590.6541	37753
722063.166	4294158.862	9323	21-Dec-13	ALEX122113.SSF	570591.5699	37754
722063.455	4294158.985	9441	21-Dec-13	ALEX122113.SSF	570592.6639	37755
722063.642	4294159.096	10250	21-Dec-13	ALEX122113.SSF	570593.542	37756
722063.527	4294159.282	10122	21-Dec-13	ALEX122113.SSF	570594.589	37757
722062.957	4294159.054	9850	21-Dec-13	ALEX122113.SSF	570595.65	37758
722062.476	4294158.675	8612	21-Dec-13	ALEX122113.SSF	570596.724	37759
722062.312	4294158.584	8903	21-Dec-13	ALEX122113.SSF	570597.652	37760
722062.507	4294159.026	8345	21-Dec-13	ALEX122113.SSF	570598.6851	37761
722062.796	4294159.608	9796	21-Dec-13	ALEX122113.SSF	570599.64	37762
722063.131	4294160.145	9049	21-Dec-13	ALEX122113.SSF	570600.644	37763
722063.558	4294160.572	9732	21-Dec-13	ALEX122113.SSF	570601.538	37764
722063.94	4294161.037	9663	21-Dec-13	ALEX122113.SSF	570602.624	37765
722064.221	4294161.4	9675	21-Dec-13	ALEX122113.SSF	570603.5439	37766
722064.917	4294161.781	9618	21-Dec-13	ALEX122113.SSF	570604.611	37767

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722065.57	4294162.217	8914	21-Dec-13	ALEX122113.SSF	570605.54	37768
722066.091	4294162.844	8828	21-Dec-13	ALEX122113.SSF	570606.647	37769
722066.426	4294163.285	9047	21-Dec-13	ALEX122113.SSF	570607.595	37770
722066.718	4294163.631	8921	21-Dec-13	ALEX122113.SSF	570608.5959	37771
722067.148	4294163.905	8380	21-Dec-13	ALEX122113.SSF	570609.599	37772
722067.678	4294164.27	8935	21-Dec-13	ALEX122113.SSF	570610.6331	37773
722068.028	4294164.664	9913	21-Dec-13	ALEX122113.SSF	570611.5341	37774
722068.385	4294165.196	10218	21-Dec-13	ALEX122113.SSF	570612.6591	37775
722068.507	4294165.543	9244	21-Dec-13	ALEX122113.SSF	570613.598	37776
722068.628	4294165.782	9661	21-Dec-13	ALEX122113.SSF	570614.626	37777
722068.893	4294165.979	10605	21-Dec-13	ALEX122113.SSF	570615.563	37778
722069.111	4294166.363	10691	21-Dec-13	ALEX122113.SSF	570616.62	37779
722069.298	4294166.83	9603	21-Dec-13	ALEX122113.SSF	570617.561	37780
722069.593	4294167.408	9810	21-Dec-13	ALEX122113.SSF	570618.61	37781
722069.652	4294167.95	9772	21-Dec-13	ALEX122113.SSF	570619.572	37782
722069.555	4294168.466	10483	21-Dec-13	ALEX122113.SSF	570620.6801	37783
722069.502	4294168.979	10031	21-Dec-13	ALEX122113.SSF	570621.621	37784
722069.726	4294169.685	9827	21-Dec-13	ALEX122113.SSF	570622.673	37785
722070.333	4294170.292	9986	21-Dec-13	ALEX122113.SSF	570623.657	37786
722070.781	4294170.89	10086	21-Dec-13	ALEX122113.SSF	570624.728	37787
722070.987	4294171.368	9451	21-Dec-13	ALEX122113.SSF	570625.5699	37788
722071.15	4294171.857	9532	21-Dec-13	ALEX122113.SSF	570626.662	37789
722071.336	4294172.156	8623	21-Dec-13	ALEX122113.SSF	570627.578	37790
722071.657	4294172.464	7886	21-Dec-13	ALEX122113.SSF	570628.692	37791
722071.953	4294172.672	10071	21-Dec-13	ALEX122113.SSF	570629.627	37792
722072.299	4294172.867	9897	21-Dec-13	ALEX122113.SSF	570630.652	37793
722072.385	4294173.026	8714	21-Dec-13	ALEX122113.SSF	570631.594	37794
722072.541	4294173.25	10068	21-Dec-13	ALEX122113.SSF	570632.725	37795
722073.033	4294173.497	9597	21-Dec-13	ALEX122113.SSF	570633.629	37796
722073.516	4294173.873	9269	21-Dec-13	ALEX122113.SSF	570634.686	37797
722073.875	4294174.185	9067	21-Dec-13	ALEX122113.SSF	570635.631	37798
722074.347	4294174.343	8626	21-Dec-13	ALEX122113.SSF	570636.644	37799
722074.586	4294174.311	8546	21-Dec-13	ALEX122113.SSF	570637.632	37800
722074.488	4294174.271	8556	21-Dec-13	ALEX122113.SSF	570638.65	37801
722074.299	4294174.232	9249	21-Dec-13	ALEX122113.SSF	570639.568	37802
722074.177	4294174.067	8912	21-Dec-13	ALEX122113.SSF	570640.6801	37803
722074.245	4294173.828	8108	21-Dec-13	ALEX122113.SSF	570641.5551	37804
722074.434	4294173.551	8747	21-Dec-13	ALEX122113.SSF	570642.637	37805
722074.538	4294173.537	9116	21-Dec-13	ALEX122113.SSF	570643.551	37806
722074.739	4294173.492	9599	21-Dec-13	ALEX122113.SSF	570644.649	37807
722075.059	4294173.518	9150	21-Dec-13	ALEX122113.SSF	570645.528	37808
722075.447	4294173.819	9547	21-Dec-13	ALEX122113.SSF	570646.639	37809
722075.682	4294174.075	9196	21-Dec-13	ALEX122113.SSF	570647.532	37810
722075.927	4294174.36	8179	21-Dec-13	ALEX122113.SSF	570648.625	37811
722076.23	4294174.474	9274	21-Dec-13	ALEX122113.SSF	570649.541	37812
722076.816	4294174.462	9488	21-Dec-13	ALEX122113.SSF	570650.645	37813
722077.377	4294174.425	9272	21-Dec-13	ALEX122113.SSF	570651.5959	37814

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722077.876	4294174.47	9398	21-Dec-13	ALEX122113.SSF	570652.623	37815
722078.227	4294174.624	9369	21-Dec-13	ALEX122113.SSF	570653.55	37816
722078.868	4294174.966	8582	21-Dec-13	ALEX122113.SSF	570654.645	37817
722079.596	4294175.324	8505	21-Dec-13	ALEX122113.SSF	570655.545	37818
722080.653	4294175.723	10166	21-Dec-13	ALEX122113.SSF	570656.722	37819
722081.327	4294175.923	10281	21-Dec-13	ALEX122113.SSF	570657.592	37820
722082.061	4294176.1	10010	21-Dec-13	ALEX122113.SSF	570658.618	37821
722082.803	4294176.135	9312	21-Dec-13	ALEX122113.SSF	570659.536	37822
722083.59	4294176.243	9528	21-Dec-13	ALEX122113.SSF	570660.637	37823
722083.975	4294176.583	9402	21-Dec-13	ALEX122113.SSF	570661.553	37824
722084.495	4294176.992	9790	21-Dec-13	ALEX122113.SSF	570662.636	37825
722085.156	4294177.157	9227	21-Dec-13	ALEX122113.SSF	570663.564	37826
722085.891	4294177.286	9206	21-Dec-13	ALEX122113.SSF	570664.606	37827
722086.479	4294177.442	8751	21-Dec-13	ALEX122113.SSF	570665.55	37828
722087.162	4294177.51	8098	21-Dec-13	ALEX122113.SSF	570666.653	37829
722087.492	4294177.497	9014	21-Dec-13	ALEX122113.SSF	570667.548	37830
722087.543	4294177.551	9123	21-Dec-13	ALEX122113.SSF	570668.631	37831
722087.567	4294177.723	9810	21-Dec-13	ALEX122113.SSF	570669.579	37832
722087.868	4294177.981	9142	21-Dec-13	ALEX122113.SSF	570670.64	37833
722088.373	4294178.26	10295	21-Dec-13	ALEX122113.SSF	570671.65	37834
722088.915	4294178.574	8874	21-Dec-13	ALEX122113.SSF	570672.662	37835
722089.462	4294178.92	9898	21-Dec-13	ALEX122113.SSF	570673.583	37836
722090.145	4294179.264	10964	21-Dec-13	ALEX122113.SSF	570674.719	37837
722090.616	4294179.394	8621	21-Dec-13	ALEX122113.SSF	570675.5811	37838
722091.025	4294179.507	9535	21-Dec-13	ALEX122113.SSF	570676.714	37839
722091.304	4294179.629	9913	21-Dec-13	ALEX122113.SSF	570677.582	37840
722091.874	4294179.854	10368	21-Dec-13	ALEX122113.SSF	570678.687	37841
722092.324	4294180.016	9792	21-Dec-13	ALEX122113.SSF	570679.626	37842
722092.692	4294180.062	9648	21-Dec-13	ALEX122113.SSF	570680.627	37843
722093.024	4294180.084	8202	21-Dec-13	ALEX122113.SSF	570681.505	37844
722093.411	4294180.231	8830	21-Dec-13	ALEX122113.SSF	570682.624	37845
722093.603	4294180.401	9377	21-Dec-13	ALEX122113.SSF	570683.6	37846
722093.746	4294180.458	10504	21-Dec-13	ALEX122113.SSF	570684.625	37847
722093.84	4294180.551	10606	21-Dec-13	ALEX122113.SSF	570685.542	37848
722093.753	4294180.607	9191	21-Dec-13	ALEX122113.SSF	570686.651	37849
722093.625	4294180.516	8988	21-Dec-13	ALEX122113.SSF	570687.5179	37850
722093.58	4294180.453	9177	21-Dec-13	ALEX122113.SSF	570688.609	37851
722093.637	4294180.536	9524	21-Dec-13	ALEX122113.SSF	570689.561	37852
722093.782	4294180.728	9371	21-Dec-13	ALEX122113.SSF	570690.644	37853
722094.071	4294180.925	9632	21-Dec-13	ALEX122113.SSF	570691.571	37854
722094.547	4294181.157	8408	21-Dec-13	ALEX122113.SSF	570692.6331	37855
722094.993	4294181.318	8792	21-Dec-13	ALEX122113.SSF	570693.554	37856
722095.732	4294181.576	9038	21-Dec-13	ALEX122113.SSF	570694.663	37857
722096.454	4294181.876	10239	21-Dec-13	ALEX122113.SSF	570695.545	37858
722097.22	4294182.441	9160	21-Dec-13	ALEX122113.SSF	570696.641	37859
722097.7	4294182.924	9400	21-Dec-13	ALEX122113.SSF	570697.564	37860
722098.199	4294183.315	9130	21-Dec-13	ALEX122113.SSF	570698.67	37861

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722098.54	4294183.539	9152	21-Dec-13	ALEX122113.SSF	570699.588	37862
722098.98	4294183.808	9578	21-Dec-13	ALEX122113.SSF	570700.645	37863
722099.493	4294184.184	9324	21-Dec-13	ALEX122113.SSF	570701.571	37864
722100.116	4294184.625	9651	21-Dec-13	ALEX122113.SSF	570702.588	37865
722100.626	4294184.979	10932	21-Dec-13	ALEX122113.SSF	570703.501	37866
722101.077	4294185.41	10173	21-Dec-13	ALEX122113.SSF	570704.6021	37867
722101.498	4294185.738	8603	21-Dec-13	ALEX122113.SSF	570705.576	37868
722102.101	4294186.071	8600	21-Dec-13	ALEX122113.SSF	570706.646	37869
722102.528	4294186.404	9920	21-Dec-13	ALEX122113.SSF	570707.5601	37870
722102.989	4294186.849	8480	21-Dec-13	ALEX122113.SSF	570708.692	37871
722103.524	4294187.319	9290	21-Dec-13	ALEX122113.SSF	570709.63	37872
722104.118	4294187.85	8922	21-Dec-13	ALEX122113.SSF	570710.653	37873
722104.589	4294188.253	8470	21-Dec-13	ALEX122113.SSF	570711.569	37874
722105.058	4294188.781	9017	21-Dec-13	ALEX122113.SSF	570712.682	37875
722105.478	4294189.284	8824	21-Dec-13	ALEX122113.SSF	570713.619	37876
722105.987	4294189.897	7606	21-Dec-13	ALEX122113.SSF	570714.644	37877
722106.374	4294190.352	9791	21-Dec-13	ALEX122113.SSF	570715.563	37878
722106.936	4294190.769	9078	21-Dec-13	ALEX122113.SSF	570716.691	37879
722107.497	4294191.24	9469	21-Dec-13	ALEX122113.SSF	570717.636	37880
722107.957	4294191.807	8667	21-Dec-13	ALEX122113.SSF	570718.6281	37881
722108.353	4294192.303	9307	21-Dec-13	ALEX122113.SSF	570719.562	37882
722108.929	4294192.91	8626	21-Dec-13	ALEX122113.SSF	570720.675	37883
722109.47	4294193.428	8846	21-Dec-13	ALEX122113.SSF	570721.6071	37884
722110.121	4294193.91	9441	21-Dec-13	ALEX122113.SSF	570722.65	37885
722110.683	4294194.434	9530	21-Dec-13	ALEX122113.SSF	570723.582	37886
722111.267	4294195.158	8442	21-Dec-13	ALEX122113.SSF	570724.629	37887
722111.819	4294195.785	8320	21-Dec-13	ALEX122113.SSF	570725.54	37888
722112.472	4294196.545	8080	21-Dec-13	ALEX122113.SSF	570726.677	37889
722112.818	4294197.087	7420	21-Dec-13	ALEX122113.SSF	570727.542	37890
722113.192	4294197.75	6505	21-Dec-13	ALEX122113.SSF	570728.605	37891
722113.5	4294198.333	6966	21-Dec-13	ALEX122113.SSF	570729.546	37892
722113.711	4294198.952	7531	21-Dec-13	ALEX122113.SSF	570730.673	37893
722113.819	4294199.465	6592	21-Dec-13	ALEX122113.SSF	570731.505	37894
722114.104	4294200.304	5802	21-Dec-13	ALEX122113.SSF	570732.635	37895
722114.512	4294201.034	5686	21-Dec-13	ALEX122113.SSF	570733.55	37896
722115.14	4294201.724	5741	21-Dec-13	ALEX122113.SSF	570734.6169	37897
722115.838	4294202.294	5996	21-Dec-13	ALEX122113.SSF	570735.578	37898
722116.596	4294202.967	5668	21-Dec-13	ALEX122113.SSF	570736.653	37899
722117.173	4294203.576	5873	21-Dec-13	ALEX122113.SSF	570737.579	37900
722117.732	4294204.255	5628	21-Dec-13	ALEX122113.SSF	570738.644	37901
722118.192	4294204.758	6001	21-Dec-13	ALEX122113.SSF	570739.516	37902
722118.729	4294205.417	6360	21-Dec-13	ALEX122113.SSF	570740.674	37903
722118.788	4294205.996	6360	21-Dec-13	ALEX122113.SSF	570741.5291	37904
722118.521	4294206.79	6510	21-Dec-13	ALEX122113.SSF	570742.6379	37905
722118.388	4294207.236	6146	21-Dec-13	ALEX122113.SSF	570743.595	37906
722118.37	4294207.362	6336	21-Dec-13	ALEX122113.SSF	570744.66	37907
722118.267	4294207.331	6984	21-Dec-13	ALEX122113.SSF	570745.548	37908

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722118.165	4294207.285	7476	21-Dec-13	ALEX122113.SSF	570746.613	37909
722118.195	4294207.269	7299	21-Dec-13	ALEX122113.SSF	570747.474	37910
722118.24	4294207.244	6324	21-Dec-13	ALEX122113.SSF	570748.599	37911
722118.093	4294207.154	6151	21-Dec-13	ALEX122113.SSF	570749.557	37912
722117.649	4294207.081	7687	21-Dec-13	ALEX122113.SSF	570750.6	37913
722117	4294207.22	7532	21-Dec-13	ALEX122113.SSF	570751.618	37914
722116.315	4294207.497	5963	21-Dec-13	ALEX122113.SSF	570752.6479	37915
722115.707	4294207.857	6976	21-Dec-13	ALEX122113.SSF	570753.5861	37916
722115.084	4294208.379	6184	21-Dec-13	ALEX122113.SSF	570754.673	37917
722114.644	4294208.751	5626	21-Dec-13	ALEX122113.SSF	570755.542	37918
722114.046	4294209.271	6037	21-Dec-13	ALEX122113.SSF	570756.588	37919
722113.641	4294209.696	6569	21-Dec-13	ALEX122113.SSF	570757.4659	37920
722113.544	4294209.906	6442	21-Dec-13	ALEX122113.SSF	570758.6219	37921
722113.645	4294209.911	6560	21-Dec-13	ALEX122113.SSF	570759.4969	37922
722113.79	4294209.936	5925	21-Dec-13	ALEX122113.SSF	570760.6541	37923
722114.235	4294209.795	5830	21-Dec-13	ALEX122113.SSF	570761.5861	37924
722115.099	4294209.317	5756	21-Dec-13	ALEX122113.SSF	570762.62	37925
722115.8	4294208.763	6073	21-Dec-13	ALEX122113.SSF	570763.567	37926
722116.507	4294208.223	5958	21-Dec-13	ALEX122113.SSF	570764.62	37927
722117.137	4294208.027	5841	21-Dec-13	ALEX122113.SSF	570765.542	37928
722117.806	4294208.338	6248	21-Dec-13	ALEX122113.SSF	570766.6899	37929
722118.263	4294208.888	7082	21-Dec-13	ALEX122113.SSF	570767.629	37930
722118.669	4294209.504	6990	21-Dec-13	ALEX122113.SSF	570768.537	37931
722119.002	4294210.21	7755	21-Dec-13	ALEX122113.SSF	570769.521	37932
722119.011	4294210.99	8169	21-Dec-13	ALEX122113.SSF	570770.567	37933
722118.721	4294211.699	7952	21-Dec-13	ALEX122113.SSF	570771.5439	37934
722118.35	4294212.429	7328	21-Dec-13	ALEX122113.SSF	570772.616	37935
722117.981	4294213.04	8642	21-Dec-13	ALEX122113.SSF	570773.481	37936
722117.429	4294213.855	8490	21-Dec-13	ALEX122113.SSF	570774.627	37937
722117.058	4294214.383	7372	21-Dec-13	ALEX122113.SSF	570775.556	37938
722116.596	4294214.942	7573	21-Dec-13	ALEX122113.SSF	570776.546	37939
722116.118	4294215.567	7203	21-Dec-13	ALEX122113.SSF	570777.504	37940
722115.768	4294216.164	7590	21-Dec-13	ALEX122113.SSF	570778.5861	37941
722115.606	4294216.418	8107	21-Dec-13	ALEX122113.SSF	570779.481	37942
722115.476	4294216.503	7577	21-Dec-13	ALEX122113.SSF	570780.563	37943
722115.426	4294216.554	7744	21-Dec-13	ALEX122113.SSF	570781.5601	37944
722115.435	4294216.616	6916	21-Dec-13	ALEX122113.SSF	570782.614	37945
722115.47	4294216.659	7999	21-Dec-13	ALEX122113.SSF	570783.494	37946
722115.513	4294216.722	7579	21-Dec-13	ALEX122113.SSF	570784.618	37947
722115.476	4294216.755	7805	21-Dec-13	ALEX122113.SSF	570785.296	37948
722115.209	4294216.877	6961	21-Dec-13	ALEX122113.SSF	570786.291	37949
722114.725	4294217.226	7260	21-Dec-13	ALEX122113.SSF	570787.202	37950
722114.172	4294217.829	6135	21-Dec-13	ALEX122113.SSF	570788.338	37951
722113.795	4294218.25	7323	21-Dec-13	ALEX122113.SSF	570789.319	37952
722113.186	4294218.681	7501	21-Dec-13	ALEX122113.SSF	570790.609	37953
722112.723	4294219.091	7815	21-Dec-13	ALEX122113.SSF	570791.52	37954
722112.126	4294219.598	7503	21-Dec-13	ALEX122113.SSF	570792.568	37955

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722111.581	4294220.065	8776	21-Dec-13	ALEX122113.SSF	570793.5179	37956
722111.048	4294220.654	9394	21-Dec-13	ALEX122113.SSF	570794.542	37957
722110.512	4294221.255	8408	21-Dec-13	ALEX122113.SSF	570795.55	37958
722109.939	4294221.741	8102	21-Dec-13	ALEX122113.SSF	570796.5341	37959
722109.457	4294222.174	8835	21-Dec-13	ALEX122113.SSF	570797.478	37960
722108.985	4294222.817	9138	21-Dec-13	ALEX122113.SSF	570798.54	37961
722108.518	4294223.491	9064	21-Dec-13	ALEX122113.SSF	570799.515	37962
722107.951	4294224.154	9436	21-Dec-13	ALEX122113.SSF	570800.592	37963
722107.461	4294224.649	9979	21-Dec-13	ALEX122113.SSF	570801.531	37964
722106.955	4294225.085	10054	21-Dec-13	ALEX122113.SSF	570802.562	37965
722106.493	4294225.501	8663	21-Dec-13	ALEX122113.SSF	570803.528	37966
722106.166	4294226.071	9066	21-Dec-13	ALEX122113.SSF	570804.564	37967
722105.957	4294226.577	9436	21-Dec-13	ALEX122113.SSF	570805.4561	37968
722105.48	4294227.096	9559	21-Dec-13	ALEX122113.SSF	570806.606	37969
722104.952	4294227.425	9319	21-Dec-13	ALEX122113.SSF	570807.46	37970
722104.133	4294227.97	9290	21-Dec-13	ALEX122113.SSF	570808.608	37971
722103.534	4294228.421	10242	21-Dec-13	ALEX122113.SSF	570809.473	37972
722102.841	4294228.953	10030	21-Dec-13	ALEX122113.SSF	570810.671	37973
722102.486	4294229.313	9287	21-Dec-13	ALEX122113.SSF	570811.5959	37974
722102.152	4294229.776	9761	21-Dec-13	ALEX122113.SSF	570812.597	37975
722101.765	4294230.295	8380	21-Dec-13	ALEX122113.SSF	570813.599	37976
722101.29	4294230.65	9985	21-Dec-13	ALEX122113.SSF	570814.6071	37977
722100.855	4294230.823	8766	21-Dec-13	ALEX122113.SSF	570815.5	37978
722100.394	4294231.1	8731	21-Dec-13	ALEX122113.SSF	570816.527	37979
722099.931	4294231.511	9922	21-Dec-13	ALEX122113.SSF	570817.53	37980
722099.44	4294231.926	9290	21-Dec-13	ALEX122113.SSF	570818.561	37981
722099.04	4294232.29	9942	21-Dec-13	ALEX122113.SSF	570819.432	37982
722098.584	4294232.882	8875	21-Dec-13	ALEX122113.SSF	570820.619	37983
722098.165	4294233.291	9479	21-Dec-13	ALEX122113.SSF	570821.576	37984
722097.558	4294233.528	9269	21-Dec-13	ALEX122113.SSF	570822.615	37985
722096.994	4294233.824	9157	21-Dec-13	ALEX122113.SSF	570823.58	37986
722096.504	4294234.34	9579	21-Dec-13	ALEX122113.SSF	570824.6429	37987
722096.066	4294234.822	9744	21-Dec-13	ALEX122113.SSF	570825.563	37988
722095.538	4294235.324	9426	21-Dec-13	ALEX122113.SSF	570826.589	37989
722095.126	4294235.808	9286	21-Dec-13	ALEX122113.SSF	570827.526	37990
722094.674	4294236.315	10121	21-Dec-13	ALEX122113.SSF	570828.563	37991
722094.223	4294236.676	8290	21-Dec-13	ALEX122113.SSF	570829.504	37992
722093.688	4294237.129	9542	21-Dec-13	ALEX122113.SSF	570830.632	37993
722093.318	4294237.651	10125	21-Dec-13	ALEX122113.SSF	570831.526	37994
722092.929	4294238.343	9521	21-Dec-13	ALEX122113.SSF	570832.6331	37995
722092.54	4294238.854	9400	21-Dec-13	ALEX122113.SSF	570833.567	37996
722091.983	4294239.381	9160	21-Dec-13	ALEX122113.SSF	570834.575	37997
722091.461	4294239.903	9430	21-Dec-13	ALEX122113.SSF	570835.4561	37998
722090.806	4294240.749	10247	21-Dec-13	ALEX122113.SSF	570836.641	37999
722090.372	4294241.274	8411	21-Dec-13	ALEX122113.SSF	570837.473	38000
722089.766	4294241.848	8883	21-Dec-13	ALEX122113.SSF	570838.6429	38001
722089.351	4294242.268	9570	21-Dec-13	ALEX122113.SSF	570839.4771	38002

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722088.837	4294242.942	9712	21-Dec-13	ALEX122113.SSF	570840.5811	38003
722088.384	4294243.539	8458	21-Dec-13	ALEX122113.SSF	570841.496	38004
722087.744	4294244.187	9044	21-Dec-13	ALEX122113.SSF	570842.598	38005
722087.164	4294244.633	9071	21-Dec-13	ALEX122113.SSF	570843.543	38006
722086.589	4294245.085	8747	21-Dec-13	ALEX122113.SSF	570844.552	38007
722086.125	4294245.596	9476	21-Dec-13	ALEX122113.SSF	570845.5081	38008
722085.614	4294246.194	8879	21-Dec-13	ALEX122113.SSF	570846.562	38009
722085.088	4294246.602	9120	21-Dec-13	ALEX122113.SSF	570847.501	38010
722084.549	4294247.019	8970	21-Dec-13	ALEX122113.SSF	570848.557	38011
722084.25	4294247.574	8992	21-Dec-13	ALEX122113.SSF	570849.5081	38012
722083.98	4294248.257	9898	21-Dec-13	ALEX122113.SSF	570850.558	38013
722083.582	4294248.729	9494	21-Dec-13	ALEX122113.SSF	570851.525	38014
722083.108	4294249.159	8223	21-Dec-13	ALEX122113.SSF	570852.603	38015
722082.754	4294249.567	10125	21-Dec-13	ALEX122113.SSF	570853.472	38016
722082.189	4294250.071	10241	21-Dec-13	ALEX122113.SSF	570854.6021	38017
722081.679	4294250.414	7810	21-Dec-13	ALEX122113.SSF	570855.467	38018
722080.99	4294250.821	7082	21-Dec-13	ALEX122113.SSF	570856.54	38019
722080.371	4294251.107	6720	21-Dec-13	ALEX122113.SSF	570857.4611	38020
722079.595	4294251.467	6120	21-Dec-13	ALEX122113.SSF	570858.53	38021
722078.91	4294251.908	5835	21-Dec-13	ALEX122113.SSF	570859.476	38022
722078.216	4294252.597	5734	21-Dec-13	ALEX122113.SSF	570860.651	38023
722077.711	4294253.14	6038	21-Dec-13	ALEX122113.SSF	570861.5081	38024
722076.974	4294253.771	6044	21-Dec-13	ALEX122113.SSF	570862.6281	38025
722076.443	4294254.17	5882	21-Dec-13	ALEX122113.SSF	570863.498	38026
722075.989	4294254.662	5333	21-Dec-13	ALEX122113.SSF	570864.62	38027
722075.758	4294255.113	5580	21-Dec-13	ALEX122113.SSF	570865.468	38028
722075.461	4294255.707	5786	21-Dec-13	ALEX122113.SSF	570866.516	38029
722075.195	4294256.153	5422	21-Dec-13	ALEX122113.SSF	570867.499	38030
722074.959	4294256.596	5720	21-Dec-13	ALEX122113.SSF	570868.579	38031
722074.686	4294256.971	6172	21-Dec-13	ALEX122113.SSF	570869.475	38032
722074.276	4294257.455	7513	21-Dec-13	ALEX122113.SSF	570870.649	38033
722074.058	4294257.907	7248	21-Dec-13	ALEX122113.SSF	570871.575	38034
722073.755	4294258.404	7362	21-Dec-13	ALEX122113.SSF	570872.5811	38035
722073.365	4294258.85	8170	21-Dec-13	ALEX122113.SSF	570873.527	38036
722072.873	4294259.434	9002	21-Dec-13	ALEX122113.SSF	570874.636	38037
722072.429	4294259.998	9570	21-Dec-13	ALEX122113.SSF	570875.554	38038
722071.948	4294260.623	8962	21-Dec-13	ALEX122113.SSF	570876.6021	38039
722071.651	4294261.188	7850	21-Dec-13	ALEX122113.SSF	570877.551	38040
722071.537	4294261.698	7812	21-Dec-13	ALEX122113.SSF	570878.599	38041
722071.499	4294261.905	8193	21-Dec-13	ALEX122113.SSF	570879.485	38042
722071.42	4294261.966	8018	21-Dec-13	ALEX122113.SSF	570880.562	38043
722071.283	4294261.998	7884	21-Dec-13	ALEX122113.SSF	570881.521	38044
722070.954	4294262.214	8811	21-Dec-13	ALEX122113.SSF	570882.582	38045
722070.492	4294262.752	8412	21-Dec-13	ALEX122113.SSF	570883.621	38046
722070.084	4294263.417	7863	21-Dec-13	ALEX122113.SSF	570884.6169	38047
722069.671	4294263.984	8085	21-Dec-13	ALEX122113.SSF	570885.552	38048
722069.126	4294264.609	8801	21-Dec-13	ALEX122113.SSF	570886.6479	38049

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722068.733	4294265.089	8290	21-Dec-13	ALEX122113.SSF	570887.504	38050
722068.135	4294265.745	7922	21-Dec-13	ALEX122113.SSF	570888.651	38051
722067.683	4294266.237	8400	21-Dec-13	ALEX122113.SSF	570889.557	38052
722067.322	4294266.819	9480	21-Dec-13	ALEX122113.SSF	570890.569	38053
722067.068	4294267.357	8340	21-Dec-13	ALEX122113.SSF	570891.427	38054
722066.626	4294268.012	8925	21-Dec-13	ALEX122113.SSF	570892.562	38055
722066.199	4294268.474	7961	21-Dec-13	ALEX122113.SSF	570893.438	38056
722065.685	4294269.177	7720	21-Dec-13	ALEX122113.SSF	570894.599	38057
722065.331	4294269.849	8590	21-Dec-13	ALEX122113.SSF	570895.517	38058
722064.883	4294270.634	8537	21-Dec-13	ALEX122113.SSF	570896.563	38059
722064.47	4294271.163	7654	21-Dec-13	ALEX122113.SSF	570897.452	38060
722063.954	4294271.746	9263	21-Dec-13	ALEX122113.SSF	570898.5291	38061
722063.542	4294272.314	8946	21-Dec-13	ALEX122113.SSF	570899.476	38062
722063.041	4294272.973	9166	21-Dec-13	ALEX122113.SSF	570900.6071	38063
722062.663	4294273.429	10121	21-Dec-13	ALEX122113.SSF	570901.3979	38064
722062.105	4294274.265	8890	21-Dec-13	ALEX122113.SSF	570902.619	38065
722061.698	4294274.892	7922	21-Dec-13	ALEX122113.SSF	570903.417	38066
722061.087	4294275.656	8760	21-Dec-13	ALEX122113.SSF	570904.525	38067
722060.597	4294276.222	7830	21-Dec-13	ALEX122113.SSF	570905.475	38068
722060.085	4294276.888	8377	21-Dec-13	ALEX122113.SSF	570906.515	38069
722059.591	4294277.532	8724	21-Dec-13	ALEX122113.SSF	570907.485	38070
722059.051	4294278.254	8391	21-Dec-13	ALEX122113.SSF	570908.573	38071
722058.621	4294278.848	8337	21-Dec-13	ALEX122113.SSF	570909.436	38072
722058.116	4294279.592	7934	21-Dec-13	ALEX122113.SSF	570910.546	38073
722057.657	4294280.224	8163	21-Dec-13	ALEX122113.SSF	570911.5601	38074
722057.169	4294280.888	9420	21-Dec-13	ALEX122113.SSF	570912.616	38075
722056.786	4294281.506	8955	21-Dec-13	ALEX122113.SSF	570913.553	38076
722056.328	4294282.187	8538	21-Dec-13	ALEX122113.SSF	570914.563	38077
722055.868	4294282.768	9214	21-Dec-13	ALEX122113.SSF	570915.463	38078
722055.247	4294283.508	9533	21-Dec-13	ALEX122113.SSF	570916.561	38079
722054.74	4294284.15	9493	21-Dec-13	ALEX122113.SSF	570917.469	38080
722054.159	4294284.898	9033	21-Dec-13	ALEX122113.SSF	570918.598	38081
722053.64	4294285.526	8558	21-Dec-13	ALEX122113.SSF	570919.506	38082
722053.123	4294286.24	8769	21-Dec-13	ALEX122113.SSF	570920.5811	38083
722052.728	4294286.786	8312	21-Dec-13	ALEX122113.SSF	570921.483	38084
722052.218	4294287.438	8228	21-Dec-13	ALEX122113.SSF	570922.537	38085
722051.801	4294288.044	8297	21-Dec-13	ALEX122113.SSF	570923.475	38086
722051.277	4294288.733	8524	21-Dec-13	ALEX122113.SSF	570924.552	38087
722050.792	4294289.29	8671	21-Dec-13	ALEX122113.SSF	570925.51	38088
722050.318	4294289.89	7777	21-Dec-13	ALEX122113.SSF	570926.501	38089
722049.878	4294290.462	8664	21-Dec-13	ALEX122113.SSF	570927.459	38090
722049.529	4294290.929	7866	21-Dec-13	ALEX122113.SSF	570928.484	38091
722049.243	4294291.414	8386	21-Dec-13	ALEX122113.SSF	570929.467	38092
722048.764	4294292.097	8756	21-Dec-13	ALEX122113.SSF	570930.549	38093
722048.278	4294292.615	7829	21-Dec-13	ALEX122113.SSF	570931.438	38094
722047.711	4294293.276	8767	21-Dec-13	ALEX122113.SSF	570932.537	38095
722047.224	4294294.009	8161	21-Dec-13	ALEX122113.SSF	570933.4919	38096

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722046.691	4294294.781	7590	21-Dec-13	ALEX122113.SSF	570934.506	38097
722046.192	4294295.424	7327	21-Dec-13	ALEX122113.SSF	570935.472	38098
722045.723	4294296.148	8402	21-Dec-13	ALEX122113.SSF	570936.498	38099
722045.277	4294296.872	7920	21-Dec-13	ALEX122113.SSF	570937.425	38100
722044.742	4294297.594	8190	21-Dec-13	ALEX122113.SSF	570938.515	38101
722044.3	4294298.145	7567	21-Dec-13	ALEX122113.SSF	570939.473	38102
722043.694	4294298.863	7562	21-Dec-13	ALEX122113.SSF	570940.59	38103
722043.314	4294299.373	7860	21-Dec-13	ALEX122113.SSF	570941.468	38104
722042.972	4294300.094	7905	21-Dec-13	ALEX122113.SSF	570942.554	38105
722042.622	4294300.822	7556	21-Dec-13	ALEX122113.SSF	570943.486	38106
722042.156	4294301.494	7889	21-Dec-13	ALEX122113.SSF	570944.576	38107
722041.679	4294302.055	8122	21-Dec-13	ALEX122113.SSF	570945.469	38108
722041.025	4294302.847	8480	21-Dec-13	ALEX122113.SSF	570946.531	38109
722040.519	4294303.489	9290	21-Dec-13	ALEX122113.SSF	570947.5081	38110
722040.135	4294304.162	7572	21-Dec-13	ALEX122113.SSF	570948.583	38111
722039.86	4294304.782	8673	21-Dec-13	ALEX122113.SSF	570949.49	38112
722039.451	4294305.444	8078	21-Dec-13	ALEX122113.SSF	570950.491	38113
722038.954	4294306.06	8059	21-Dec-13	ALEX122113.SSF	570951.4351	38114
722038.389	4294306.842	9182	21-Dec-13	ALEX122113.SSF	570952.574	38115
722038.022	4294307.375	8955	21-Dec-13	ALEX122113.SSF	570953.481	38116
722037.583	4294307.976	8568	21-Dec-13	ALEX122113.SSF	570954.4871	38117
722037.133	4294308.659	7842	21-Dec-13	ALEX122113.SSF	570955.436	38118
722036.614	4294309.363	7510	21-Dec-13	ALEX122113.SSF	570956.547	38119
722036.175	4294309.865	8567	21-Dec-13	ALEX122113.SSF	570957.474	38120
722035.721	4294310.519	9161	21-Dec-13	ALEX122113.SSF	570958.4969	38121
722035.268	4294311.161	8470	21-Dec-13	ALEX122113.SSF	570959.4659	38122
722034.662	4294311.794	8567	21-Dec-13	ALEX122113.SSF	570960.551	38123
722034.133	4294312.284	8081	21-Dec-13	ALEX122113.SSF	570961.556	38124
722033.722	4294312.866	8200	21-Dec-13	ALEX122113.SSF	570962.569	38125
722033.378	4294313.521	8230	21-Dec-13	ALEX122113.SSF	570963.489	38126
722032.93	4294314.242	8177	21-Dec-13	ALEX122113.SSF	570964.537	38127
722032.47	4294314.852	8494	21-Dec-13	ALEX122113.SSF	570965.446	38128
722031.956	4294315.654	8033	21-Dec-13	ALEX122113.SSF	570966.538	38129
722031.548	4294316.424	7648	21-Dec-13	ALEX122113.SSF	570967.4919	38130
722031.062	4294317.179	8962	21-Dec-13	ALEX122113.SSF	570968.5179	38131
722030.519	4294317.79	8780	21-Dec-13	ALEX122113.SSF	570969.453	38132
722029.916	4294318.493	8645	21-Dec-13	ALEX122113.SSF	570970.533	38133
722029.52	4294319.114	8731	21-Dec-13	ALEX122113.SSF	570971.469	38134
722029.019	4294319.847	7252	21-Dec-13	ALEX122113.SSF	570972.535	38135
722028.451	4294320.464	7123	21-Dec-13	ALEX122113.SSF	570973.4561	38136
722027.776	4294321.203	8951	21-Dec-13	ALEX122113.SSF	570974.573	38137
722027.32	4294321.815	8447	21-Dec-13	ALEX122113.SSF	570975.439	38138
722026.729	4294322.607	8171	21-Dec-13	ALEX122113.SSF	570976.554	38139
722026.326	4294323.112	8823	21-Dec-13	ALEX122113.SSF	570977.385	38140
722025.821	4294323.75	9255	21-Dec-13	ALEX122113.SSF	570978.498	38141
722025.366	4294324.348	8343	21-Dec-13	ALEX122113.SSF	570979.4351	38142
722024.78	4294325.044	9946	21-Dec-13	ALEX122113.SSF	570980.538	38143

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722024.265	4294325.639	8816	21-Dec-13	ALEX122113.SSF	570981.475	38144
722023.709	4294326.403	8054	21-Dec-13	ALEX122113.SSF	570982.5551	38145
722023.262	4294327.058	8853	21-Dec-13	ALEX122113.SSF	570983.478	38146
722022.7	4294327.763	9923	21-Dec-13	ALEX122113.SSF	570984.558	38147
722022.301	4294328.307	8600	21-Dec-13	ALEX122113.SSF	570985.446	38148
722021.864	4294328.899	9080	21-Dec-13	ALEX122113.SSF	570986.578	38149
722021.455	4294329.365	8960	21-Dec-13	ALEX122113.SSF	570987.434	38150
722020.869	4294330.107	10340	21-Dec-13	ALEX122113.SSF	570988.546	38151
722020.379	4294330.76	8885	21-Dec-13	ALEX122113.SSF	570989.4709	38152
722019.775	4294331.456	8851	21-Dec-13	ALEX122113.SSF	570990.536	38153
722019.291	4294332.01	8572	21-Dec-13	ALEX122113.SSF	570991.447	38154
722018.826	4294332.796	8833	21-Dec-13	ALEX122113.SSF	570992.53	38155
722018.442	4294333.52	9738	21-Dec-13	ALEX122113.SSF	570993.486	38156
722017.904	4294334.213	8404	21-Dec-13	ALEX122113.SSF	570994.5031	38157
722017.405	4294334.808	7471	21-Dec-13	ALEX122113.SSF	570995.421	38158
722016.982	4294335.579	8617	21-Dec-13	ALEX122113.SSF	570996.52	38159
722016.583	4294336.365	10074	21-Dec-13	ALEX122113.SSF	570997.49	38160
722016.144	4294337.049	9358	21-Dec-13	ALEX122113.SSF	570998.5031	38161
722015.801	4294337.47	8819	21-Dec-13	ALEX122113.SSF	570999.4139	38162
722015.269	4294337.933	9435	21-Dec-13	ALEX122113.SSF	571000.517	38163
722014.676	4294338.508	10578	21-Dec-13	ALEX122113.SSF	571001.521	38164
722014.149	4294339.291	9304	21-Dec-13	ALEX122113.SSF	571002.532	38165
722013.699	4294340.062	9046	21-Dec-13	ALEX122113.SSF	571003.437	38166
722013.117	4294340.89	9431	21-Dec-13	ALEX122113.SSF	571004.507	38167
722012.629	4294341.571	9288	21-Dec-13	ALEX122113.SSF	571005.436	38168
722012.003	4294342.42	9402	21-Dec-13	ALEX122113.SSF	571006.595	38169
722011.552	4294342.893	9670	21-Dec-13	ALEX122113.SSF	571007.447	38170
722011.023	4294343.531	8927	21-Dec-13	ALEX122113.SSF	571008.516	38171
722010.527	4294344.294	10181	21-Dec-13	ALEX122113.SSF	571009.4919	38172
722010.113	4294344.882	10555	21-Dec-13	ALEX122113.SSF	571010.443	38173
722009.767	4294345.36	9539	21-Dec-13	ALEX122113.SSF	571011.361	38174
722009.24	4294346.158	8354	21-Dec-13	ALEX122113.SSF	571012.501	38175
722008.776	4294346.788	8418	21-Dec-13	ALEX122113.SSF	571013.402	38176
722008.257	4294347.491	9124	21-Dec-13	ALEX122113.SSF	571014.4351	38177
722007.744	4294348.212	9121	21-Dec-13	ALEX122113.SSF	571015.439	38178
722007.173	4294348.93	9510	21-Dec-13	ALEX122113.SSF	571016.562	38179
722006.684	4294349.523	9097	21-Dec-13	ALEX122113.SSF	571017.479	38180
722006.132	4294350.237	8394	21-Dec-13	ALEX122113.SSF	571018.577	38181
722005.722	4294350.787	8968	21-Dec-13	ALEX122113.SSF	571019.49	38182
722005.237	4294351.466	9562	21-Dec-13	ALEX122113.SSF	571020.54	38183
722004.841	4294352.161	8810	21-Dec-13	ALEX122113.SSF	571021.496	38184
722004.351	4294352.957	9432	21-Dec-13	ALEX122113.SSF	571022.59	38185
722003.867	4294353.433	7758	21-Dec-13	ALEX122113.SSF	571023.4399	38186
722003.253	4294353.927	7789	21-Dec-13	ALEX122113.SSF	571024.526	38187
722002.838	4294354.464	7917	21-Dec-13	ALEX122113.SSF	571025.428	38188
722002.419	4294355.216	10259	21-Dec-13	ALEX122113.SSF	571026.545	38189
722002.013	4294355.704	8445	21-Dec-13	ALEX122113.SSF	571027.5179	38190

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722001.558	4294356.089	9311	21-Dec-13	ALEX122113.SSF	571028.545	38191
722001.255	4294356.532	8207	21-Dec-13	ALEX122113.SSF	571029.465	38192
722000.933	4294357.209	8801	21-Dec-13	ALEX122113.SSF	571030.5389	38193
722000.593	4294357.701	8320	21-Dec-13	ALEX122113.SSF	571031.381	38194
721999.977	4294358.267	7990	21-Dec-13	ALEX122113.SSF	571032.507	38195
721999.503	4294358.822	9197	21-Dec-13	ALEX122113.SSF	571033.4139	38196
721999.126	4294359.609	8899	21-Dec-13	ALEX122113.SSF	571034.5229	38197
721998.779	4294360.174	7834	21-Dec-13	ALEX122113.SSF	571035.426	38198
721998.344	4294360.663	8138	21-Dec-13	ALEX122113.SSF	571036.441	38199
721998.036	4294360.875	7824	21-Dec-13	ALEX122113.SSF	571037.38	38200
721997.852	4294360.847	7026	21-Dec-13	ALEX122113.SSF	571038.526	38201
721997.819	4294360.579	8296	21-Dec-13	ALEX122113.SSF	571039.446	38202
721997.641	4294360.088	7174	21-Dec-13	ALEX122113.SSF	571040.516	38203
721997.443	4294359.836	7613	21-Dec-13	ALEX122113.SSF	571041.432	38204
721997.39	4294359.821	6943	21-Dec-13	ALEX122113.SSF	571042.531	38205
721997.409	4294359.907	6023	21-Dec-13	ALEX122113.SSF	571043.5139	38206
721997.414	4294359.907	6338	21-Dec-13	ALEX122113.SSF	571044.5291	38207
721997.418	4294359.873	7404	21-Dec-13	ALEX122113.SSF	571045.418	38208
721997.36	4294359.845	7401	21-Dec-13	ALEX122113.SSF	571046.541	38209
721997.273	4294359.813	6740	21-Dec-13	ALEX122113.SSF	571047.447	38210
721997.19	4294359.81	7115	21-Dec-13	ALEX122113.SSF	571048.5759	38211
721997.102	4294359.819	7628	21-Dec-13	ALEX122113.SSF	571049.417	38212
721996.988	4294359.808	7007	21-Dec-13	ALEX122113.SSF	571050.575	38213
721996.917	4294359.775	6881	21-Dec-13	ALEX122113.SSF	571051.4951	38214
721996.751	4294359.736	7150	21-Dec-13	ALEX122113.SSF	571052.572	38215
721996.631	4294359.737	7787	21-Dec-13	ALEX122113.SSF	571053.6279	38216
721996.561	4294359.727	7376	21-Dec-13	ALEX122113.SSF	571054.5049	38217
721996.526	4294359.729	8174	21-Dec-13	ALEX122113.SSF	571055.4541	38218
721996.598	4294359.767	6843	21-Dec-13	ALEX122113.SSF	571056.5171	38219
721996.705	4294359.812	7950	21-Dec-13	ALEX122113.SSF	571057.4431	38220
721996.814	4294359.876	7537	21-Dec-13	ALEX122113.SSF	571058.5659	38221
721996.857	4294359.909	7434	21-Dec-13	ALEX122113.SSF	571059.4441	38222
721996.814	4294359.897	7078	21-Dec-13	ALEX122113.SSF	571060.561	38223
721996.76	4294359.897	7739	21-Dec-13	ALEX122113.SSF	571061.3999	38224
721996.763	4294359.962	8025	21-Dec-13	ALEX122113.SSF	571062.5439	38225
721996.779	4294360.011	7886	21-Dec-13	ALEX122113.SSF	571063.4451	38226
721996.825	4294360.06	6381	21-Dec-13	ALEX122113.SSF	571064.5559	38227
721996.892	4294360.093	7235	21-Dec-13	ALEX122113.SSF	571065.376	38228
721996.962	4294360.081	7208	21-Dec-13	ALEX122113.SSF	571066.499	38229
721996.97	4294360.067	7022	21-Dec-13	ALEX122113.SSF	571067.4309	38230
721997.015	4294360.057	8115	21-Dec-13	ALEX122113.SSF	571068.469	38231
721997.126	4294359.994	8358	21-Dec-13	ALEX122113.SSF	571069.4351	38232
721997.264	4294359.967	7819	21-Dec-13	ALEX122113.SSF	571070.53	38233
721997.325	4294359.952	7595	21-Dec-13	ALEX122113.SSF	571071.4221	38234
721997.329	4294359.939	8588	21-Dec-13	ALEX122113.SSF	571072.572	38235
721997.331	4294359.952	7847	21-Dec-13	ALEX122113.SSF	571073.5061	38236
721997.294	4294359.995	7241	21-Dec-13	ALEX122113.SSF	571074.5371	38237

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721997.271	4294360.107	8200	21-Dec-13	ALEX122113.SSF	571075.4299	38238
721997.271	4294360.179	7510	21-Dec-13	ALEX122113.SSF	571076.533	38239
721997.26	4294360.093	7487	21-Dec-13	ALEX122113.SSF	571077.4309	38240
721997.27	4294359.996	7781	21-Dec-13	ALEX122113.SSF	571078.54	38241
721997.269	4294359.993	7315	21-Dec-13	ALEX122113.SSF	571079.4309	38242
721997.282	4294360.03	7439	21-Dec-13	ALEX122113.SSF	571080.531	38243
721997.313	4294360.063	7019	21-Dec-13	ALEX122113.SSF	571081.446	38244
721997.311	4294360.018	8265	21-Dec-13	ALEX122113.SSF	571082.5039	38245
721997.292	4294359.928	7526	21-Dec-13	ALEX122113.SSF	571083.4141	38246
721997.26	4294359.891	7551	21-Dec-13	ALEX122113.SSF	571084.561	38247
721997.216	4294359.881	7437	21-Dec-13	ALEX122113.SSF	571085.3391	38248
721997.196	4294359.818	7169	21-Dec-13	ALEX122113.SSF	571086.5	38249
721997.221	4294359.778	7372	21-Dec-13	ALEX122113.SSF	571087.355	38250
721997.265	4294359.751	7993	21-Dec-13	ALEX122113.SSF	571088.4189	38251
721997.276	4294359.72	7758	21-Dec-13	ALEX122113.SSF	571089.3911	38252
721997.274	4294359.679	6619	21-Dec-13	ALEX122113.SSF	571090.54	38253
721997.272	4294359.667	6514	21-Dec-13	ALEX122113.SSF	571091.4541	38254
721997.253	4294359.696	7748	21-Dec-13	ALEX122113.SSF	571092.489	38255
721997.273	4294359.726	7157	21-Dec-13	ALEX122113.SSF	571093.3931	38256
721997.48	4294359.817	7249	21-Dec-13	ALEX122113.SSF	571094.5029	38257
721997.837	4294359.981	7212	21-Dec-13	ALEX122113.SSF	571095.3821	38258
721998.259	4294360.098	7263	21-Dec-13	ALEX122113.SSF	571096.5039	38259
721998.427	4294360.103	7605	21-Dec-13	ALEX122113.SSF	571097.426	38260
721998.656	4294359.965	7751	21-Dec-13	ALEX122113.SSF	571098.46	38261
721999.033	4294359.527	8118	21-Dec-13	ALEX122113.SSF	571099.3811	38262
721999.686	4294358.676	8749	21-Dec-13	ALEX122113.SSF	571100.4609	38263
722000.344	4294357.894	8427	21-Dec-13	ALEX122113.SSF	571101.467	38264
722000.927	4294357.091	8437	21-Dec-13	ALEX122113.SSF	571102.5291	38265
722001.257	4294356.366	9069	21-Dec-13	ALEX122113.SSF	571103.468	38266
722001.507	4294355.753	8717	21-Dec-13	ALEX122113.SSF	571104.4709	38267
722001.865	4294355.208	8269	21-Dec-13	ALEX122113.SSF	571105.4299	38268
722002.275	4294354.565	10047	21-Dec-13	ALEX122113.SSF	571106.4751	38269
722002.499	4294354.098	10702	21-Dec-13	ALEX122113.SSF	571107.458	38270
722002.67	4294353.901	10085	21-Dec-13	ALEX122113.SSF	571108.4741	38271
722003.033	4294353.794	9271	21-Dec-13	ALEX122113.SSF	571109.4399	38272
722003.641	4294353.579	8257	21-Dec-13	ALEX122113.SSF	571110.4709	38273
722004.087	4294353.374	8064	21-Dec-13	ALEX122113.SSF	571111.4009	38274
722004.114	4294353.15	8196	21-Dec-13	ALEX122113.SSF	571112.4189	38275
722003.958	4294352.97	7419	21-Dec-13	ALEX122113.SSF	571113.343	38276
722003.9	4294352.926	8154	21-Dec-13	ALEX122113.SSF	571114.4221	38277
722003.896	4294352.936	8728	21-Dec-13	ALEX122113.SSF	571115.3411	38278
722003.906	4294352.988	8872	21-Dec-13	ALEX122113.SSF	571116.426	38279
722004.074	4294353.011	8968	21-Dec-13	ALEX122113.SSF	571117.366	38280
722004.409	4294352.847	7942	21-Dec-13	ALEX122113.SSF	571118.49	38281
722004.709	4294352.5	8075	21-Dec-13	ALEX122113.SSF	571119.3269	38282
722005.345	4294351.7	7988	21-Dec-13	ALEX122113.SSF	571120.5769	38283
722005.787	4294350.989	8237	21-Dec-13	ALEX122113.SSF	571121.5049	38284

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722006.271	4294350.061	9679	21-Dec-13	ALEX122113.SSF	571122.583	38285
722006.614	4294349.374	9109	21-Dec-13	ALEX122113.SSF	571123.4641	38286
722007.059	4294348.536	9837	21-Dec-13	ALEX122113.SSF	571124.5811	38287
722007.362	4294347.984	8909	21-Dec-13	ALEX122113.SSF	571125.342	38288
722007.665	4294347.421	9397	21-Dec-13	ALEX122113.SSF	571126.478	38289
722007.874	4294347.023	8829	21-Dec-13	ALEX122113.SSF	571127.386	38290
722008.081	4294346.368	8657	21-Dec-13	ALEX122113.SSF	571128.4961	38291
722008.144	4294345.895	9064	21-Dec-13	ALEX122113.SSF	571129.365	38292
722008.165	4294345.408	9886	21-Dec-13	ALEX122113.SSF	571130.5339	38293
722008.193	4294345.113	9641	21-Dec-13	ALEX122113.SSF	571131.4709	38294
722008.418	4294344.966	8680	21-Dec-13	ALEX122113.SSF	571132.5071	38295
722008.547	4294344.88	9580	21-Dec-13	ALEX122113.SSF	571133.45	38296
722008.494	4294344.69	9205	21-Dec-13	ALEX122113.SSF	571134.4709	38297
722008.433	4294344.611	8991	21-Dec-13	ALEX122113.SSF	571135.449	38298
722008.436	4294344.636	9777	21-Dec-13	ALEX122113.SSF	571136.5371	38299
722008.413	4294344.662	8414	21-Dec-13	ALEX122113.SSF	571137.447	38300
722008.353	4294344.67	9363	21-Dec-13	ALEX122113.SSF	571138.4629	38301
722008.254	4294344.613	9750	21-Dec-13	ALEX122113.SSF	571139.4241	38302
722008.037	4294344.54	8707	21-Dec-13	ALEX122113.SSF	571140.551	38303
722007.852	4294344.572	8417	21-Dec-13	ALEX122113.SSF	571141.3799	38304
722007.607	4294344.637	9244	21-Dec-13	ALEX122113.SSF	571142.499	38305
722007.498	4294344.624	9601	21-Dec-13	ALEX122113.SSF	571143.3979	38306
722007.503	4294344.639	10500	21-Dec-13	ALEX122113.SSF	571144.481	38307
722007.473	4294344.625	9765	21-Dec-13	ALEX122113.SSF	571145.4419	38308
722007.316	4294344.459	9371	21-Dec-13	ALEX122113.SSF	571146.4729	38309
722007.297	4294344.353	10353	21-Dec-13	ALEX122113.SSF	571147.3931	38310
722007.815	4294344.399	9548	21-Dec-13	ALEX122113.SSF	571148.5569	38311
722008.327	4294344.449	9167	21-Dec-13	ALEX122113.SSF	571149.386	38312
722008.985	4294344.434	10841	21-Dec-13	ALEX122113.SSF	571150.448	38313
722009.565	4294344.436	9940	21-Dec-13	ALEX122113.SSF	571151.3689	38314
722010.229	4294344.376	9205	21-Dec-13	ALEX122113.SSF	571152.531	38315
722010.719	4294343.934	9621	21-Dec-13	ALEX122113.SSF	571153.428	38316
722011.315	4294343.033	10565	21-Dec-13	ALEX122113.SSF	571154.501	38317
722011.873	4294342.113	9301	21-Dec-13	ALEX122113.SSF	571155.438	38318
722012.392	4294341.186	8865	21-Dec-13	ALEX122113.SSF	571156.459	38319
722012.791	4294340.339	9356	21-Dec-13	ALEX122113.SSF	571157.3611	38320
722013.38	4294339.326	9299	21-Dec-13	ALEX122113.SSF	571158.4839	38321
722013.833	4294338.749	9465	21-Dec-13	ALEX122113.SSF	571159.3721	38322
722014.42	4294338.031	9116	21-Dec-13	ALEX122113.SSF	571160.437	38323
722014.886	4294337.446	8159	21-Dec-13	ALEX122113.SSF	571161.356	38324
722015.479	4294336.736	8579	21-Dec-13	ALEX122113.SSF	571162.439	38325
722016.074	4294336.013	10455	21-Dec-13	ALEX122113.SSF	571163.3711	38326
722016.613	4294335.364	9213	21-Dec-13	ALEX122113.SSF	571164.385	38327
722017.227	4294334.653	9353	21-Dec-13	ALEX122113.SSF	571165.343	38328
722017.914	4294333.587	10048	21-Dec-13	ALEX122113.SSF	571166.4661	38329
722018.29	4294332.904	9592	21-Dec-13	ALEX122113.SSF	571167.405	38330
722018.797	4294332.281	10708	21-Dec-13	ALEX122113.SSF	571168.4419	38331

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722019.307	4294331.683	9517	21-Dec-13	ALEX122113.SSF	571169.407	38332
722020.009	4294330.928	8709	21-Dec-13	ALEX122113.SSF	571170.4851	38333
722020.552	4294330.271	9287	21-Dec-13	ALEX122113.SSF	571171.426	38334
722021.042	4294329.566	8261	21-Dec-13	ALEX122113.SSF	571172.4609	38335
722021.611	4294328.91	9445	21-Dec-13	ALEX122113.SSF	571173.4209	38336
722022.292	4294328.16	9471	21-Dec-13	ALEX122113.SSF	571174.4939	38337
722022.816	4294327.441	8697	21-Dec-13	ALEX122113.SSF	571175.4299	38338
722023.412	4294326.673	9854	21-Dec-13	ALEX122113.SSF	571176.489	38339
722024.003	4294326.008	9573	21-Dec-13	ALEX122113.SSF	571177.4351	38340
722024.593	4294325.244	8783	21-Dec-13	ALEX122113.SSF	571178.5039	38341
722025.01	4294324.684	8705	21-Dec-13	ALEX122113.SSF	571179.3921	38342
722025.447	4294323.993	8866	21-Dec-13	ALEX122113.SSF	571180.4221	38343
722025.825	4294323.25	10076	21-Dec-13	ALEX122113.SSF	571181.355	38344
722026.327	4294322.452	9299	21-Dec-13	ALEX122113.SSF	571182.3931	38345
722026.816	4294321.81	10035	21-Dec-13	ALEX122113.SSF	571183.3081	38346
722027.23	4294321.208	10158	21-Dec-13	ALEX122113.SSF	571184.4221	38347
722027.524	4294320.832	8539	21-Dec-13	ALEX122113.SSF	571185.3391	38348
722027.953	4294320.263	8884	21-Dec-13	ALEX122113.SSF	571186.4551	38349
722028.312	4294319.666	9511	21-Dec-13	ALEX122113.SSF	571187.364	38350
722028.781	4294318.87	7267	21-Dec-13	ALEX122113.SSF	571188.447	38351
722029.227	4294318.201	7637	21-Dec-13	ALEX122113.SSF	571189.396	38352
722029.65	4294317.522	9139	21-Dec-13	ALEX122113.SSF	571190.415	38353
722030.116	4294316.77	8734	21-Dec-13	ALEX122113.SSF	571191.4209	38354
722030.698	4294316.071	9383	21-Dec-13	ALEX122113.SSF	571192.425	38355
722031.199	4294315.484	8916	21-Dec-13	ALEX122113.SSF	571193.3711	38356
722031.713	4294314.774	8499	21-Dec-13	ALEX122113.SSF	571194.429	38357
722032.358	4294313.977	9474	21-Dec-13	ALEX122113.SSF	571195.4561	38358
722032.876	4294313.287	8008	21-Dec-13	ALEX122113.SSF	571196.4529	38359
722033.265	4294312.691	10012	21-Dec-13	ALEX122113.SSF	571197.3779	38360
722033.64	4294312.061	9673	21-Dec-13	ALEX122113.SSF	571198.5129	38361
722033.97	4294311.559	9828	21-Dec-13	ALEX122113.SSF	571199.45	38362
722034.333	4294311.024	9927	21-Dec-13	ALEX122113.SSF	571200.4209	38363
722034.73	4294310.473	9231	21-Dec-13	ALEX122113.SSF	571201.416	38364
722035.258	4294309.824	9268	21-Dec-13	ALEX122113.SSF	571202.3979	38365
722035.921	4294309.065	8677	21-Dec-13	ALEX122113.SSF	571203.406	38366
722036.586	4294308.248	8229	21-Dec-13	ALEX122113.SSF	571204.4241	38367
722037.048	4294307.6	7967	21-Dec-13	ALEX122113.SSF	571205.3359	38368
722037.476	4294307.083	8501	21-Dec-13	ALEX122113.SSF	571206.48	38369
722037.905	4294306.59	9895	21-Dec-13	ALEX122113.SSF	571207.375	38370
722038.404	4294305.872	9344	21-Dec-13	ALEX122113.SSF	571208.3989	38371
722038.752	4294305.364	9716	21-Dec-13	ALEX122113.SSF	571209.4199	38372
722038.852	4294305.138	8939	21-Dec-13	ALEX122113.SSF	571210.4509	38373
722038.795	4294305.017	7994	21-Dec-13	ALEX122113.SSF	571211.4009	38374
722038.736	4294304.959	8928	21-Dec-13	ALEX122113.SSF	571212.458	38375
722038.832	4294304.893	8562	21-Dec-13	ALEX122113.SSF	571213.375	38376
722039.045	4294304.757	9130	21-Dec-13	ALEX122113.SSF	571214.47	38377
722039.193	4294304.637	10292	21-Dec-13	ALEX122113.SSF	571215.325	38378

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722039.303	4294304.522	8693	21-Dec-13	ALEX122113.SSF	571216.416	38379
722039.307	4294304.508	7933	21-Dec-13	ALEX122113.SSF	571217.3101	38380
722039.187	4294304.576	8373	21-Dec-13	ALEX122113.SSF	571218.363	38381
722039.121	4294304.591	8963	21-Dec-13	ALEX122113.SSF	571219.27	38382
722039.054	4294304.626	8840	21-Dec-13	ALEX122113.SSF	571220.4829	38383
722039.113	4294304.658	8780	21-Dec-13	ALEX122113.SSF	571221.4121	38384
722039.302	4294304.626	9605	21-Dec-13	ALEX122113.SSF	571222.446	38385
722039.409	4294304.487	9511	21-Dec-13	ALEX122113.SSF	571223.365	38386
722039.638	4294304.164	8167	21-Dec-13	ALEX122113.SSF	571224.4819	38387
722039.905	4294303.798	8882	21-Dec-13	ALEX122113.SSF	571225.325	38388
722040.307	4294303.152	9420	21-Dec-13	ALEX122113.SSF	571226.394	38389
722040.665	4294302.699	8625	21-Dec-13	ALEX122113.SSF	571227.3721	38390
722041.135	4294302.125	8336	21-Dec-13	ALEX122113.SSF	571228.4641	38391
722041.528	4294301.505	8384	21-Dec-13	ALEX122113.SSF	571229.386	38392
722041.935	4294300.783	9116	21-Dec-13	ALEX122113.SSF	571230.468	38393
722042.23	4294300.235	8129	21-Dec-13	ALEX122113.SSF	571231.4431	38394
722042.62	4294299.535	7582	21-Dec-13	ALEX122113.SSF	571232.532	38395
722042.958	4294299.062	8105	21-Dec-13	ALEX122113.SSF	571233.427	38396
722043.265	4294298.65	8236	21-Dec-13	ALEX122113.SSF	571234.46	38397
722043.551	4294298.189	8629	21-Dec-13	ALEX122113.SSF	571235.3579	38398
722044.004	4294297.531	8037	21-Dec-13	ALEX122113.SSF	571236.439	38399
722044.43	4294297.007	7709	21-Dec-13	ALEX122113.SSF	571237.335	38400
722044.828	4294296.557	9337	21-Dec-13	ALEX122113.SSF	571238.428	38401
722045.12	4294296.094	9294	21-Dec-13	ALEX122113.SSF	571239.4121	38402
722045.514	4294295.501	9013	21-Dec-13	ALEX122113.SSF	571240.5081	38403
722045.972	4294294.943	8283	21-Dec-13	ALEX122113.SSF	571241.4189	38404
722046.612	4294294.094	8130	21-Dec-13	ALEX122113.SSF	571242.467	38405
722047.178	4294293.396	8692	21-Dec-13	ALEX122113.SSF	571243.429	38406
722047.789	4294292.738	8803	21-Dec-13	ALEX122113.SSF	571244.4709	38407
722048.338	4294292.025	9371	21-Dec-13	ALEX122113.SSF	571245.3679	38408
722048.964	4294291.216	8792	21-Dec-13	ALEX122113.SSF	571246.4629	38409
722049.332	4294290.778	8738	21-Dec-13	ALEX122113.SSF	571247.3081	38410
722049.887	4294290.043	9354	21-Dec-13	ALEX122113.SSF	571248.416	38411
722050.461	4294289.3	8728	21-Dec-13	ALEX122113.SSF	571249.3931	38412
722050.895	4294288.746	9892	21-Dec-13	ALEX122113.SSF	571250.4351	38413
722051.327	4294288.204	9043	21-Dec-13	ALEX122113.SSF	571251.344	38414
722051.991	4294287.338	9580	21-Dec-13	ALEX122113.SSF	571252.4751	38415
722052.44	4294286.721	9055	21-Dec-13	ALEX122113.SSF	571253.3401	38416
722052.805	4294286.064	9163	21-Dec-13	ALEX122113.SSF	571254.48	38417
722053.192	4294285.483	8711	21-Dec-13	ALEX122113.SSF	571255.3789	38418
722053.724	4294284.729	9737	21-Dec-13	ALEX122113.SSF	571256.51	38419
722054.152	4294284.159	9994	21-Dec-13	ALEX122113.SSF	571257.4041	38420
722054.743	4294283.409	8528	21-Dec-13	ALEX122113.SSF	571258.5	38421
722055.208	4294282.819	8852	21-Dec-13	ALEX122113.SSF	571259.3521	38422
722055.841	4294282.251	10283	21-Dec-13	ALEX122113.SSF	571260.374	38423
722056.381	4294281.863	10490	21-Dec-13	ALEX122113.SSF	571261.3059	38424
722056.809	4294281.194	9732	21-Dec-13	ALEX122113.SSF	571262.4651	38425

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722057.178	4294280.567	8853	21-Dec-13	ALEX122113.SSF	571263.3989	38426
722057.617	4294279.976	8183	21-Dec-13	ALEX122113.SSF	571264.4561	38427
722058.142	4294279.356	8645	21-Dec-13	ALEX122113.SSF	571265.418	38428
722058.663	4294278.704	8431	21-Dec-13	ALEX122113.SSF	571266.4309	38429
722059.014	4294278.186	8587	21-Dec-13	ALEX122113.SSF	571267.439	38430
722059.3	4294277.72	9197	21-Dec-13	ALEX122113.SSF	571268.426	38431
722059.734	4294277.173	8419	21-Dec-13	ALEX122113.SSF	571269.3469	38432
722060.164	4294276.55	9154	21-Dec-13	ALEX122113.SSF	571270.395	38433
722060.577	4294275.88	9278	21-Dec-13	ALEX122113.SSF	571271.321	38434
722061.19	4294275.002	8559	21-Dec-13	ALEX122113.SSF	571272.396	38435
722061.743	4294274.335	8500	21-Dec-13	ALEX122113.SSF	571273.312	38436
722062.385	4294273.402	8815	21-Dec-13	ALEX122113.SSF	571274.426	38437
722062.848	4294272.632	9283	21-Dec-13	ALEX122113.SSF	571275.313	38438
722063.394	4294271.797	9431	21-Dec-13	ALEX122113.SSF	571276.458	38439
722063.959	4294271.124	8627	21-Dec-13	ALEX122113.SSF	571277.3899	38440
722064.676	4294270.183	8726	21-Dec-13	ALEX122113.SSF	571278.439	38441
722065.226	4294269.319	9951	21-Dec-13	ALEX122113.SSF	571279.342	38442
722065.97	4294268.295	10048	21-Dec-13	ALEX122113.SSF	571280.4661	38443
722066.585	4294267.515	8692	21-Dec-13	ALEX122113.SSF	571281.3601	38444
722067.18	4294266.692	8773	21-Dec-13	ALEX122113.SSF	571282.5061	38445
722067.588	4294266.079	7863	21-Dec-13	ALEX122113.SSF	571283.4209	38446
722068.094	4294265.293	8655	21-Dec-13	ALEX122113.SSF	571284.427	38447
722068.512	4294264.564	8463	21-Dec-13	ALEX122113.SSF	571285.356	38448
722068.964	4294263.928	9646	21-Dec-13	ALEX122113.SSF	571286.438	38449
722069.566	4294263.369	8561	21-Dec-13	ALEX122113.SSF	571287.365	38450
722070.399	4294262.521	9100	21-Dec-13	ALEX122113.SSF	571288.4099	38451
722070.985	4294261.768	8395	21-Dec-13	ALEX122113.SSF	571289.3569	38452
722071.349	4294261.133	8968	21-Dec-13	ALEX122113.SSF	571290.4031	38453
722071.591	4294260.508	9232	21-Dec-13	ALEX122113.SSF	571291.408	38454
722071.819	4294259.963	8848	21-Dec-13	ALEX122113.SSF	571292.416	38455
722072.095	4294259.542	9052	21-Dec-13	ALEX122113.SSF	571293.3169	38456
722072.546	4294258.909	9163	21-Dec-13	ALEX122113.SSF	571294.4309	38457
722072.794	4294258.333	8350	21-Dec-13	ALEX122113.SSF	571295.332	38458
722072.608	4294257.941	8357	21-Dec-13	ALEX122113.SSF	571296.4031	38459
722072.311	4294257.877	8329	21-Dec-13	ALEX122113.SSF	571297.4419	38460
722071.961	4294257.743	8982	21-Dec-13	ALEX122113.SSF	571298.467	38461
722071.584	4294257.761	8635	21-Dec-13	ALEX122113.SSF	571299.3979	38462
722071.244	4294257.968	8609	21-Dec-13	ALEX122113.SSF	571300.446	38463
722070.829	4294258.314	7822	21-Dec-13	ALEX122113.SSF	571301.4231	38464
722070.344	4294258.917	8255	21-Dec-13	ALEX122113.SSF	571302.438	38465
722069.903	4294259.519	8723	21-Dec-13	ALEX122113.SSF	571303.3569	38466
722069.282	4294260.145	9501	21-Dec-13	ALEX122113.SSF	571304.4309	38467
722068.833	4294260.709	8855	21-Dec-13	ALEX122113.SSF	571305.354	38468
722068.427	4294261.425	8693	21-Dec-13	ALEX122113.SSF	571306.3979	38469
722068.036	4294261.943	7573	21-Dec-13	ALEX122113.SSF	571307.355	38470
722067.84	4294262.111	8013	21-Dec-13	ALEX122113.SSF	571308.4451	38471
722067.854	4294262.073	7793	21-Dec-13	ALEX122113.SSF	571309.385	38472

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722067.871	4294262.08	8398	21-Dec-13	ALEX122113.SSF	571310.4509	38473
722067.891	4294262.103	8339	21-Dec-13	ALEX122113.SSF	571311.3779	38474
722067.891	4294262.124	9375	21-Dec-13	ALEX122113.SSF	571312.4441	38475
722067.919	4294262.144	10083	21-Dec-13	ALEX122113.SSF	571313.3711	38476
722067.996	4294262.214	8190	21-Dec-13	ALEX122113.SSF	571314.4121	38477
722068.04	4294262.282	8467	21-Dec-13	ALEX122113.SSF	571315.386	38478
722067.93	4294262.355	8717	21-Dec-13	ALEX122113.SSF	571316.4231	38479
722067.614	4294262.555	7909	21-Dec-13	ALEX122113.SSF	571317.3569	38480
722067.118	4294263.041	8367	21-Dec-13	ALEX122113.SSF	571318.4221	38481
722066.678	4294263.535	7912	21-Dec-13	ALEX122113.SSF	571319.3831	38482
722066.182	4294264.134	7798	21-Dec-13	ALEX122113.SSF	571320.46	38483
722065.795	4294264.711	8549	21-Dec-13	ALEX122113.SSF	571321.3601	38484
722065.297	4294265.351	9637	21-Dec-13	ALEX122113.SSF	571322.458	38485
722064.834	4294265.837	7839	21-Dec-13	ALEX122113.SSF	571323.3269	38486
722064.314	4294266.545	8679	21-Dec-13	ALEX122113.SSF	571324.4641	38487
722063.924	4294267.073	7840	21-Dec-13	ALEX122113.SSF	571325.3521	38488
722063.39	4294267.661	8710	21-Dec-13	ALEX122113.SSF	571326.406	38489
722062.981	4294268.198	9167	21-Dec-13	ALEX122113.SSF	571327.3469	38490
722062.535	4294268.867	9311	21-Dec-13	ALEX122113.SSF	571328.385	38491
722062.054	4294269.529	8778	21-Dec-13	ALEX122113.SSF	571329.3081	38492
722061.455	4294270.277	8944	21-Dec-13	ALEX122113.SSF	571330.3569	38493
722060.925	4294270.962	9046	21-Dec-13	ALEX122113.SSF	571331.3059	38494
722060.378	4294271.75	8801	21-Dec-13	ALEX122113.SSF	571332.3711	38495
722059.832	4294272.452	8200	21-Dec-13	ALEX122113.SSF	571333.3159	38496
722059.311	4294273.228	9310	21-Dec-13	ALEX122113.SSF	571334.3711	38497
722058.831	4294273.927	8837	21-Dec-13	ALEX122113.SSF	571335.3621	38498
722058.126	4294274.704	9199	21-Dec-13	ALEX122113.SSF	571336.4351	38499
722057.574	4294275.415	9169	21-Dec-13	ALEX122113.SSF	571337.364	38500
722057.016	4294276.251	10212	21-Dec-13	ALEX122113.SSF	571338.4021	38501
722056.509	4294277.003	10383	21-Dec-13	ALEX122113.SSF	571339.3611	38502
722056.042	4294277.729	9525	21-Dec-13	ALEX122113.SSF	571340.3401	38503
722055.474	4294278.538	8681	21-Dec-13	ALEX122113.SSF	571341.356	38504
722054.862	4294279.342	8410	21-Dec-13	ALEX122113.SSF	571342.3879	38505
722054.29	4294280.037	8762	21-Dec-13	ALEX122113.SSF	571343.312	38506
722053.663	4294280.769	8610	21-Dec-13	ALEX122113.SSF	571344.3391	38507
722053.203	4294281.538	8872	21-Dec-13	ALEX122113.SSF	571345.3621	38508
722052.782	4294282.405	10528	21-Dec-13	ALEX122113.SSF	571346.478	38509
722052.406	4294283.064	10282	21-Dec-13	ALEX122113.SSF	571347.418	38510
722052.075	4294283.701	9860	21-Dec-13	ALEX122113.SSF	571348.4771	38511
722051.843	4294284.162	9275	21-Dec-13	ALEX122113.SSF	571349.4031	38512
722051.7	4294284.416	9998	21-Dec-13	ALEX122113.SSF	571350.407	38513
722051.715	4294284.427	9939	21-Dec-13	ALEX122113.SSF	571351.3831	38514
722051.77	4294284.419	9325	21-Dec-13	ALEX122113.SSF	571352.4041	38515
722051.773	4294284.469	8991	21-Dec-13	ALEX122113.SSF	571353.415	38516
722051.644	4294284.641	9807	21-Dec-13	ALEX122113.SSF	571354.4641	38517
722051.445	4294284.966	10072	21-Dec-13	ALEX122113.SSF	571355.311	38518
722051.05	4294285.563	9448	21-Dec-13	ALEX122113.SSF	571356.3601	38519

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722050.484	4294286.164	9862	21-Dec-13	ALEX122113.SSF	571357.321	38520
722049.835	4294286.827	10385	21-Dec-13	ALEX122113.SSF	571358.3679	38521
722049.424	4294287.274	9376	21-Dec-13	ALEX122113.SSF	571359.3081	38522
722048.994	4294287.789	8644	21-Dec-13	ALEX122113.SSF	571360.437	38523
722048.549	4294288.361	8971	21-Dec-13	ALEX122113.SSF	571361.324	38524
722047.978	4294289.079	8362	21-Dec-13	ALEX122113.SSF	571362.3831	38525
722047.622	4294289.632	8960	21-Dec-13	ALEX122113.SSF	571363.3101	38526
722047.207	4294290.265	9170	21-Dec-13	ALEX122113.SSF	571364.4021	38527
722046.624	4294290.901	9612	21-Dec-13	ALEX122113.SSF	571365.394	38528
722046.104	4294291.624	8103	21-Dec-13	ALEX122113.SSF	571366.4351	38529
722045.697	4294292.221	9495	21-Dec-13	ALEX122113.SSF	571367.343	38530
722045.072	4294292.904	9153	21-Dec-13	ALEX122113.SSF	571368.4519	38531
722044.66	4294293.441	9578	21-Dec-13	ALEX122113.SSF	571369.3369	38532
722044.255	4294294.063	8454	21-Dec-13	ALEX122113.SSF	571370.4341	38533
722043.839	4294294.542	8323	21-Dec-13	ALEX122113.SSF	571371.2891	38534
722043.323	4294295.173	8471	21-Dec-13	ALEX122113.SSF	571372.323	38535
722042.818	4294295.944	8657	21-Dec-13	ALEX122113.SSF	571373.417	38536
722042.243	4294296.581	8314	21-Dec-13	ALEX122113.SSF	571374.428	38537
722041.755	4294297.097	8558	21-Dec-13	ALEX122113.SSF	571375.2681	38538
722041.164	4294297.865	8409	21-Dec-13	ALEX122113.SSF	571376.3821	38539
722040.668	4294298.474	8612	21-Dec-13	ALEX122113.SSF	571377.3069	38540
722040.018	4294299.115	7913	21-Dec-13	ALEX122113.SSF	571378.3259	38541
722039.427	4294299.835	8248	21-Dec-13	ALEX122113.SSF	571379.3601	38542
722038.891	4294300.547	8182	21-Dec-13	ALEX122113.SSF	571380.4609	38543
722038.383	4294301.128	8585	21-Dec-13	ALEX122113.SSF	571381.3779	38544
722037.863	4294301.851	9076	21-Dec-13	ALEX122113.SSF	571382.3779	38545
722037.36	4294302.589	9259	21-Dec-13	ALEX122113.SSF	571383.4209	38546
722036.728	4294303.315	9484	21-Dec-13	ALEX122113.SSF	571384.47	38547
722036.217	4294303.961	9061	21-Dec-13	ALEX122113.SSF	571385.3621	38548
722035.707	4294304.745	8085	21-Dec-13	ALEX122113.SSF	571386.4341	38549
722035.225	4294305.356	9161	21-Dec-13	ALEX122113.SSF	571387.4099	38550
722034.704	4294305.965	8260	21-Dec-13	ALEX122113.SSF	571388.481	38551
722034.252	4294306.563	8995	21-Dec-13	ALEX122113.SSF	571389.3689	38552
722033.688	4294307.274	8308	21-Dec-13	ALEX122113.SSF	571390.3679	38553
722033.133	4294307.913	7927	21-Dec-13	ALEX122113.SSF	571391.3091	38554
722032.618	4294308.683	7771	21-Dec-13	ALEX122113.SSF	571392.3899	38555
722032.235	4294309.397	8572	21-Dec-13	ALEX122113.SSF	571393.2991	38556
722031.717	4294310.108	9253	21-Dec-13	ALEX122113.SSF	571394.3701	38557
722031.296	4294310.666	9633	21-Dec-13	ALEX122113.SSF	571395.397	38558
722030.731	4294311.37	7958	21-Dec-13	ALEX122113.SSF	571396.478	38559
722030.171	4294311.951	9909	21-Dec-13	ALEX122113.SSF	571397.354	38560
722029.552	4294312.634	9167	21-Dec-13	ALEX122113.SSF	571398.4529	38561
722029.098	4294313.283	9491	21-Dec-13	ALEX122113.SSF	571399.3799	38562
722028.565	4294313.992	9063	21-Dec-13	ALEX122113.SSF	571400.373	38563
722027.928	4294314.662	8145	21-Dec-13	ALEX122113.SSF	571401.387	38564
722027.36	4294315.435	7766	21-Dec-13	ALEX122113.SSF	571402.4399	38565
722026.888	4294316.227	8331	21-Dec-13	ALEX122113.SSF	571403.377	38566

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722026.365	4294316.97	8803	21-Dec-13	ALEX122113.SSF	571404.375	38567
722025.877	4294317.597	9310	21-Dec-13	ALEX122113.SSF	571405.3831	38568
722025.324	4294318.369	9617	21-Dec-13	ALEX122113.SSF	571406.4419	38569
722024.789	4294319.104	9364	21-Dec-13	ALEX122113.SSF	571407.4121	38570
722024.22	4294319.78	9301	21-Dec-13	ALEX122113.SSF	571408.384	38571
722023.685	4294320.475	9945	21-Dec-13	ALEX122113.SSF	571409.4309	38572
722023.298	4294321.057	8336	21-Dec-13	ALEX122113.SSF	571410.3911	38573
722022.883	4294321.707	9224	21-Dec-13	ALEX122113.SSF	571411.375	38574
722022.493	4294322.536	10316	21-Dec-13	ALEX122113.SSF	571412.4629	38575
722022.222	4294323.077	9629	21-Dec-13	ALEX122113.SSF	571413.354	38576
722021.807	4294323.498	8797	21-Dec-13	ALEX122113.SSF	571414.501	38577
722021.416	4294323.576	8949	21-Dec-13	ALEX122113.SSF	571415.3799	38578
722021.044	4294323.368	9317	21-Dec-13	ALEX122113.SSF	571416.4221	38579
722021.004	4294323.154	8809	21-Dec-13	ALEX122113.SSF	571417.416	38580
722021.127	4294323.015	9702	21-Dec-13	ALEX122113.SSF	571418.4041	38581
722021.347	4294322.755	10555	21-Dec-13	ALEX122113.SSF	571419.405	38582
722021.673	4294322.247	9179	21-Dec-13	ALEX122113.SSF	571420.3789	38583
722021.911	4294321.627	9044	21-Dec-13	ALEX122113.SSF	571421.4751	38584
722021.847	4294321.443	9821	21-Dec-13	ALEX122113.SSF	571422.418	38585
722021.733	4294321.503	10135	21-Dec-13	ALEX122113.SSF	571423.3521	38586
722021.695	4294321.55	9733	21-Dec-13	ALEX122113.SSF	571424.418	38587
722021.685	4294321.534	9333	21-Dec-13	ALEX122113.SSF	571425.366	38588
722021.672	4294321.523	9143	21-Dec-13	ALEX122113.SSF	571426.3721	38589
722021.662	4294321.526	9275	21-Dec-13	ALEX122113.SSF	571427.293	38590
722021.67	4294321.535	9069	21-Dec-13	ALEX122113.SSF	571428.3931	38591
722021.702	4294321.552	8507	21-Dec-13	ALEX122113.SSF	571429.3049	38592
722021.732	4294321.586	8786	21-Dec-13	ALEX122113.SSF	571430.364	38593
722021.765	4294321.585	9216	21-Dec-13	ALEX122113.SSF	571431.4141	38594
722021.801	4294321.541	9294	21-Dec-13	ALEX122113.SSF	571432.3999	38595
722021.76	4294321.529	9163	21-Dec-13	ALEX122113.SSF	571433.332	38596
722021.764	4294321.496	8351	21-Dec-13	ALEX122113.SSF	571434.4121	38597
722021.831	4294321.436	8957	21-Dec-13	ALEX122113.SSF	571435.304	38598
722021.756	4294321.464	9079	21-Dec-13	ALEX122113.SSF	571436.4319	38599
722021.693	4294321.462	7939	21-Dec-13	ALEX122113.SSF	571437.3259	38600
722021.649	4294321.459	8345	21-Dec-13	ALEX122113.SSF	571438.426	38601
722021.655	4294321.464	8806	21-Dec-13	ALEX122113.SSF	571439.4031	38602
722021.705	4294321.444	10061	21-Dec-13	ALEX122113.SSF	571440.4231	38603
722021.767	4294321.413	9085	21-Dec-13	ALEX122113.SSF	571441.333	38604
722022.094	4294321.132	8451	21-Dec-13	ALEX122113.SSF	571442.488	38605
722022.45	4294320.734	8532	21-Dec-13	ALEX122113.SSF	571443.3359	38606
722022.917	4294320.055	9153	21-Dec-13	ALEX122113.SSF	571444.4819	38607
722023.143	4294319.651	9698	21-Dec-13	ALEX122113.SSF	571445.3491	38608
722023.193	4294319.438	8964	21-Dec-13	ALEX122113.SSF	571446.344	38609
722023.175	4294319.402	8751	21-Dec-13	ALEX122113.SSF	571447.2859	38610
722023.223	4294319.415	9177	21-Dec-13	ALEX122113.SSF	571448.364	38611
722023.22	4294319.397	8414	21-Dec-13	ALEX122113.SSF	571449.281	38612
722023.208	4294319.37	9273	21-Dec-13	ALEX122113.SSF	571450.4021	38613

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722023.218	4294319.375	9338	21-Dec-13	ALEX122113.SSF	571451.252	38614
722023.204	4294319.398	9114	21-Dec-13	ALEX122113.SSF	571452.3411	38615
722023.196	4294319.396	9598	21-Dec-13	ALEX122113.SSF	571453.2859	38616
722023.221	4294319.368	9809	21-Dec-13	ALEX122113.SSF	571454.304	38617
722023.228	4294319.355	10852	21-Dec-13	ALEX122113.SSF	571455.3291	38618
722023.184	4294319.31	9793	21-Dec-13	ALEX122113.SSF	571456.3491	38619
722023.122	4294319.25	9288	21-Dec-13	ALEX122113.SSF	571457.3569	38620
722023.087	4294319.242	9162	21-Dec-13	ALEX122113.SSF	571458.3621	38621
722023.036	4294319.298	9640	21-Dec-13	ALEX122113.SSF	571459.3049	38622
722023.014	4294319.36	8350	21-Dec-13	ALEX122113.SSF	571460.353	38623
722023.052	4294319.397	8357	21-Dec-13	ALEX122113.SSF	571461.4031	38624
722023.102	4294319.346	8569	21-Dec-13	ALEX122113.SSF	571462.4131	38625
722023.137	4294319.148	7722	21-Dec-13	ALEX122113.SSF	571463.3369	38626
722023.043	4294318.917	9280	21-Dec-13	ALEX122113.SSF	571464.3259	38627
722023.052	4294318.803	9790	21-Dec-13	ALEX122113.SSF	571465.345	38628
722023.388	4294318.792	9617	21-Dec-13	ALEX122113.SSF	571466.4209	38629
722023.641	4294318.723	9514	21-Dec-13	ALEX122113.SSF	571467.293	38630
722023.711	4294318.368	9068	21-Dec-13	ALEX122113.SSF	571468.3821	38631
722023.59	4294318.207	8027	21-Dec-13	ALEX122113.SSF	571469.323	38632
722023.589	4294318.328	9746	21-Dec-13	ALEX122113.SSF	571470.345	38633
722023.813	4294318.595	8556	21-Dec-13	ALEX122113.SSF	571471.325	38634
722023.845	4294318.938	8379	21-Dec-13	ALEX122113.SSF	571472.342	38635
722023.699	4294319.064	8364	21-Dec-13	ALEX122113.SSF	571473.332	38636
722023.765	4294318.855	8571	21-Dec-13	ALEX122113.SSF	571474.3721	38637
722023.841	4294318.67	8442	21-Dec-13	ALEX122113.SSF	571475.355	38638
722023.85	4294318.575	8980	21-Dec-13	ALEX122113.SSF	571476.3879	38639
722023.722	4294318.59	8875	21-Dec-13	ALEX122113.SSF	571477.3569	38640
722023.476	4294318.664	9658	21-Dec-13	ALEX122113.SSF	571478.3811	38641
722023.35	4294318.629	9344	21-Dec-13	ALEX122113.SSF	571479.365	38642
722023.397	4294318.465	9086	21-Dec-13	ALEX122113.SSF	571480.3921	38643
722023.499	4294318.288	9171	21-Dec-13	ALEX122113.SSF	571481.333	38644
722023.773	4294318.017	8652	21-Dec-13	ALEX122113.SSF	571482.3091	38645
722024.145	4294317.775	9303	21-Dec-13	ALEX122113.SSF	571483.332	38646
722024.385	4294317.549	8985	21-Dec-13	ALEX122113.SSF	571484.3621	38647
722024.629	4294317.338	8606	21-Dec-13	ALEX122113.SSF	571485.3579	38648
722024.675	4294317.385	9231	21-Dec-13	ALEX122113.SSF	571486.408	38649
722024.586	4294317.542	9718	21-Dec-13	ALEX122113.SSF	571487.373	38650
722024.686	4294317.608	8819	21-Dec-13	ALEX122113.SSF	571488.4719	38651
722024.79	4294317.652	10305	21-Dec-13	ALEX122113.SSF	571489.3689	38652
722024.869	4294317.724	10526	21-Dec-13	ALEX122113.SSF	571490.4719	38653
722024.897	4294317.778	9771	21-Dec-13	ALEX122113.SSF	571491.3101	38654
722024.822	4294317.906	9762	21-Dec-13	ALEX122113.SSF	571492.3899	38655
722024.623	4294318.109	8380	21-Dec-13	ALEX122113.SSF	571493.2781	38656
722024.511	4294318.269	7645	21-Dec-13	ALEX122113.SSF	571494.3811	38657
722024.587	4294318.231	8301	21-Dec-13	ALEX122113.SSF	571495.2781	38658
722024.645	4294318.171	9455	21-Dec-13	ALEX122113.SSF	571496.3989	38659
722024.672	4294318.134	9413	21-Dec-13	ALEX122113.SSF	571497.3799	38660

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722024.695	4294318.105	8293	21-Dec-13	ALEX122113.SSF	571498.4209	38661
722024.775	4294318.088	8613	21-Dec-13	ALEX122113.SSF	571499.2939	38662
722025.067	4294317.965	10643	21-Dec-13	ALEX122113.SSF	571500.2991	38663
722025.534	4294317.499	9320	21-Dec-13	ALEX122113.SSF	571501.2849	38664
722025.925	4294316.912	10190	21-Dec-13	ALEX122113.SSF	571502.2729	38665
722026.267	4294316.513	9807	21-Dec-13	ALEX122113.SSF	571503.272	38666
722026.638	4294316.069	9082	21-Dec-13	ALEX122113.SSF	571504.3081	38667
722027.166	4294315.565	8570	21-Dec-13	ALEX122113.SSF	571505.373	38668
722027.698	4294315.148	9612	21-Dec-13	ALEX122113.SSF	571506.3291	38669
722028.133	4294314.623	9303	21-Dec-13	ALEX122113.SSF	571507.2781	38670
722028.544	4294314.069	8265	21-Dec-13	ALEX122113.SSF	571508.3401	38671
722028.838	4294313.62	8666	21-Dec-13	ALEX122113.SSF	571509.2839	38672
722029.212	4294312.769	8766	21-Dec-13	ALEX122113.SSF	571510.426	38673
722029.605	4294312.047	9061	21-Dec-13	ALEX122113.SSF	571511.303	38674
722030.066	4294311.318	9015	21-Dec-13	ALEX122113.SSF	571512.314	38675
722030.552	4294310.418	8913	21-Dec-13	ALEX122113.SSF	571513.354	38676
722030.985	4294309.667	9728	21-Dec-13	ALEX122113.SSF	571514.3391	38677
722031.44	4294309.106	9392	21-Dec-13	ALEX122113.SSF	571515.313	38678
722031.995	4294308.366	9368	21-Dec-13	ALEX122113.SSF	571516.3411	38679
722032.553	4294307.55	8882	21-Dec-13	ALEX122113.SSF	571517.3501	38680
722032.985	4294306.829	8340	21-Dec-13	ALEX122113.SSF	571518.3779	38681
722033.416	4294306.056	9045	21-Dec-13	ALEX122113.SSF	571519.3789	38682
722033.839	4294305.313	8531	21-Dec-13	ALEX122113.SSF	571520.3679	38683
722034.363	4294304.551	8943	21-Dec-13	ALEX122113.SSF	571521.405	38684
722034.783	4294303.924	7785	21-Dec-13	ALEX122113.SSF	571522.3181	38685
722035.269	4294303.158	8216	21-Dec-13	ALEX122113.SSF	571523.345	38686
722035.863	4294302.278	9584	21-Dec-13	ALEX122113.SSF	571524.4509	38687
722036.263	4294301.609	8036	21-Dec-13	ALEX122113.SSF	571525.3511	38688
722036.656	4294300.837	8099	21-Dec-13	ALEX122113.SSF	571526.355	38689
722037.082	4294300.191	9134	21-Dec-13	ALEX122113.SSF	571527.2749	38690
722037.657	4294299.515	8553	21-Dec-13	ALEX122113.SSF	571528.2771	38691
722038.089	4294298.835	8858	21-Dec-13	ALEX122113.SSF	571529.2161	38692
722038.534	4294297.885	8754	21-Dec-13	ALEX122113.SSF	571530.3579	38693
722039.024	4294297.111	9028	21-Dec-13	ALEX122113.SSF	571531.3159	38694
722039.6	4294296.4	10027	21-Dec-13	ALEX122113.SSF	571532.314	38695
722040.038	4294295.642	8836	21-Dec-13	ALEX122113.SSF	571533.2849	38696
722040.625	4294294.717	9319	21-Dec-13	ALEX122113.SSF	571534.416	38697
722041.102	4294294.119	9229	21-Dec-13	ALEX122113.SSF	571535.26	38698
722041.858	4294293.244	8727	21-Dec-13	ALEX122113.SSF	571536.4189	38699
722042.513	4294292.491	10162	21-Dec-13	ALEX122113.SSF	571537.364	38700
722043.055	4294291.795	9590	21-Dec-13	ALEX122113.SSF	571538.3899	38701
722043.403	4294291.209	10227	21-Dec-13	ALEX122113.SSF	571539.291	38702
722043.786	4294290.433	9217	21-Dec-13	ALEX122113.SSF	571540.4041	38703
722044.187	4294289.82	8994	21-Dec-13	ALEX122113.SSF	571541.2771	38704
722044.807	4294289.259	9298	21-Dec-13	ALEX122113.SSF	571542.2971	38705
722045.114	4294289.017	8894	21-Dec-13	ALEX122113.SSF	571543.3059	38706
722045.021	4294288.961	10053	21-Dec-13	ALEX122113.SSF	571544.3779	38707

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722044.952	4294288.891	9983	21-Dec-13	ALEX122113.SSF	571545.3359	38708
722045.051	4294288.577	9005	21-Dec-13	ALEX122113.SSF	571546.3621	38709
722045.401	4294287.923	8341	21-Dec-13	ALEX122113.SSF	571547.3521	38710
722045.96	4294287.128	10755	21-Dec-13	ALEX122113.SSF	571548.321	38711
722046.681	4294286.379	9558	21-Dec-13	ALEX122113.SSF	571549.353	38712
722047.246	4294285.78	9679	21-Dec-13	ALEX122113.SSF	571550.3459	38713
722047.732	4294285.151	10070	21-Dec-13	ALEX122113.SSF	571551.3269	38714
722048.41	4294284.332	9087	21-Dec-13	ALEX122113.SSF	571552.363	38715
722048.947	4294283.656	9142	21-Dec-13	ALEX122113.SSF	571553.28	38716
722049.391	4294282.978	9455	21-Dec-13	ALEX122113.SSF	571554.2859	38717
722049.888	4294282.182	9713	21-Dec-13	ALEX122113.SSF	571555.3789	38718
722050.311	4294281.556	8518	21-Dec-13	ALEX122113.SSF	571556.3701	38719
722050.883	4294280.835	9779	21-Dec-13	ALEX122113.SSF	571557.3511	38720
722051.621	4294279.947	9405	21-Dec-13	ALEX122113.SSF	571558.4231	38721
722052.168	4294279.257	9311	21-Dec-13	ALEX122113.SSF	571559.3669	38722
722052.61	4294278.517	10397	21-Dec-13	ALEX122113.SSF	571560.3501	38723
722053.087	4294277.743	10429	21-Dec-13	ALEX122113.SSF	571561.3521	38724
722053.675	4294277.037	9507	21-Dec-13	ALEX122113.SSF	571562.3491	38725
722054.127	4294276.488	9667	21-Dec-13	ALEX122113.SSF	571563.2529	38726
722054.623	4294275.846	9946	21-Dec-13	ALEX122113.SSF	571564.2849	38727
722055.29	4294275.061	9986	21-Dec-13	ALEX122113.SSF	571565.324	38728
722056.094	4294274.118	9036	21-Dec-13	ALEX122113.SSF	571566.4089	38729
722056.781	4294273.356	9759	21-Dec-13	ALEX122113.SSF	571567.3469	38730
722057.328	4294272.715	9309	21-Dec-13	ALEX122113.SSF	571568.3459	38731
722057.822	4294272.002	8987	21-Dec-13	ALEX122113.SSF	571569.2971	38732
722058.37	4294271.235	8666	21-Dec-13	ALEX122113.SSF	571570.323	38733
722058.87	4294270.603	7746	21-Dec-13	ALEX122113.SSF	571571.324	38734
722059.356	4294269.902	8716	21-Dec-13	ALEX122113.SSF	571572.312	38735
722059.855	4294269.184	8839	21-Dec-13	ALEX122113.SSF	571573.3091	38736
722060.313	4294268.6	9109	21-Dec-13	ALEX122113.SSF	571574.301	38737
722060.859	4294267.891	9327	21-Dec-13	ALEX122113.SSF	571575.323	38738
722061.439	4294267.269	9352	21-Dec-13	ALEX122113.SSF	571576.3721	38739
722061.945	4294266.781	9268	21-Dec-13	ALEX122113.SSF	571577.3721	38740
722062.563	4294266.083	10597	21-Dec-13	ALEX122113.SSF	571578.3679	38741
722063.183	4294265.417	10989	21-Dec-13	ALEX122113.SSF	571579.4189	38742
722063.721	4294264.87	11237	21-Dec-13	ALEX122113.SSF	571580.325	38743
722064.261	4294264.168	8779	21-Dec-13	ALEX122113.SSF	571581.303	38744
722064.678	4294263.578	9034	21-Dec-13	ALEX122113.SSF	571582.3059	38745
722065.182	4294263.027	9068	21-Dec-13	ALEX122113.SSF	571583.313	38746
722065.65	4294262.429	9527	21-Dec-13	ALEX122113.SSF	571584.3059	38747
722066.092	4294261.845	8261	21-Dec-13	ALEX122113.SSF	571585.323	38748
722066.68	4294261.174	9475	21-Dec-13	ALEX122113.SSF	571586.3291	38749
722067.233	4294260.465	8639	21-Dec-13	ALEX122113.SSF	571587.304	38750
722067.75	4294259.74	8129	21-Dec-13	ALEX122113.SSF	571588.365	38751
722067.974	4294259.107	8362	21-Dec-13	ALEX122113.SSF	571589.386	38752
722067.773	4294258.728	9530	21-Dec-13	ALEX122113.SSF	571590.3521	38753
722067.425	4294258.521	8712	21-Dec-13	ALEX122113.SSF	571591.2419	38754

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722067.155	4294258.036	9288	21-Dec-13	ALEX122113.SSF	571592.2981	38755
722066.735	4294257.82	8292	21-Dec-13	ALEX122113.SSF	571593.2959	38756
722066.448	4294257.858	8433	21-Dec-13	ALEX122113.SSF	571594.281	38757
722066.171	4294257.966	8918	21-Dec-13	ALEX122113.SSF	571595.3291	38758
722065.658	4294258.302	8469	21-Dec-13	ALEX122113.SSF	571596.3589	38759
722065.26	4294258.851	8567	21-Dec-13	ALEX122113.SSF	571597.312	38760
722064.876	4294259.579	7961	21-Dec-13	ALEX122113.SSF	571598.384	38761
722064.429	4294260.168	8020	21-Dec-13	ALEX122113.SSF	571599.3	38762
722063.924	4294260.725	9415	21-Dec-13	ALEX122113.SSF	571600.293	38763
722063.583	4294261.32	9403	21-Dec-13	ALEX122113.SSF	571601.3411	38764
722063.297	4294261.904	9251	21-Dec-13	ALEX122113.SSF	571602.3601	38765
722062.889	4294262.413	9272	21-Dec-13	ALEX122113.SSF	571603.312	38766
722062.519	4294263.079	10988	21-Dec-13	ALEX122113.SSF	571604.3611	38767
722062.29	4294263.688	10637	21-Dec-13	ALEX122113.SSF	571605.271	38768
722061.833	4294264.333	10189	21-Dec-13	ALEX122113.SSF	571606.3379	38769
722061.384	4294265.034	9147	21-Dec-13	ALEX122113.SSF	571607.303	38770
722060.963	4294265.774	8947	21-Dec-13	ALEX122113.SSF	571608.3279	38771
722060.415	4294266.401	8566	21-Dec-13	ALEX122113.SSF	571609.3411	38772
722059.856	4294267.073	8981	21-Dec-13	ALEX122113.SSF	571610.3411	38773
722059.329	4294267.821	8875	21-Dec-13	ALEX122113.SSF	571611.3589	38774
722058.758	4294268.555	8909	21-Dec-13	ALEX122113.SSF	571612.3979	38775
722058.342	4294269.161	8917	21-Dec-13	ALEX122113.SSF	571613.3269	38776
722057.874	4294269.89	8049	21-Dec-13	ALEX122113.SSF	571614.354	38777
722057.395	4294270.534	9392	21-Dec-13	ALEX122113.SSF	571615.261	38778
722056.843	4294271.234	9308	21-Dec-13	ALEX122113.SSF	571616.313	38779
722056.352	4294271.931	8747	21-Dec-13	ALEX122113.SSF	571617.2561	38780
722055.805	4294272.688	9206	21-Dec-13	ALEX122113.SSF	571618.281	38781
722055.127	4294273.381	8361	21-Dec-13	ALEX122113.SSF	571619.3049	38782
722054.565	4294274.022	9050	21-Dec-13	ALEX122113.SSF	571620.3391	38783
722054.084	4294274.64	8922	21-Dec-13	ALEX122113.SSF	571621.2939	38784
722053.473	4294275.284	8620	21-Dec-13	ALEX122113.SSF	571622.3589	38785
722053.018	4294275.858	8755	21-Dec-13	ALEX122113.SSF	571623.3149	38786
722052.451	4294276.58	8788	21-Dec-13	ALEX122113.SSF	571624.3279	38787
722051.91	4294277.194	9307	21-Dec-13	ALEX122113.SSF	571625.1831	38788
722051.344	4294277.832	10096	21-Dec-13	ALEX122113.SSF	571626.282	38789
722050.799	4294278.59	9694	21-Dec-13	ALEX122113.SSF	571627.3259	38790
722050.292	4294279.353	10613	21-Dec-13	ALEX122113.SSF	571628.2891	38791
722049.797	4294279.998	8863	21-Dec-13	ALEX122113.SSF	571629.2461	38792
722049.291	4294280.638	8786	21-Dec-13	ALEX122113.SSF	571630.2949	38793
722048.836	4294281.185	8736	21-Dec-13	ALEX122113.SSF	571631.2561	38794
722048.271	4294281.823	9354	21-Dec-13	ALEX122113.SSF	571632.282	38795
722047.828	4294282.533	7798	21-Dec-13	ALEX122113.SSF	571633.2261	38796
722047.331	4294283.412	9149	21-Dec-13	ALEX122113.SSF	571634.334	38797
722046.846	4294284.087	9397	21-Dec-13	ALEX122113.SSF	571635.2871	38798
722046.353	4294284.792	8079	21-Dec-13	ALEX122113.SSF	571636.3491	38799
722045.897	4294285.513	9219	21-Dec-13	ALEX122113.SSF	571637.2749	38800
722045.319	4294286.295	8875	21-Dec-13	ALEX122113.SSF	571638.272	38801

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722044.687	4294287.09	9478	21-Dec-13	ALEX122113.SSF	571639.3259	38802
722044.106	4294287.94	9209	21-Dec-13	ALEX122113.SSF	571640.353	38803
722043.592	4294288.714	9322	21-Dec-13	ALEX122113.SSF	571641.282	38804
722042.939	4294289.457	9080	21-Dec-13	ALEX122113.SSF	571642.321	38805
722042.376	4294290.121	8780	21-Dec-13	ALEX122113.SSF	571643.2781	38806
722041.942	4294290.899	9155	21-Dec-13	ALEX122113.SSF	571644.322	38807
722041.489	4294291.524	9278	21-Dec-13	ALEX122113.SSF	571645.2781	38808
722040.875	4294292.11	8769	21-Dec-13	ALEX122113.SSF	571646.324	38809
722040.325	4294292.666	9512	21-Dec-13	ALEX122113.SSF	571647.28	38810
722039.664	4294293.499	8948	21-Dec-13	ALEX122113.SSF	571648.426	38811
722039.064	4294294.173	9077	21-Dec-13	ALEX122113.SSF	571649.374	38812
722038.507	4294294.759	8629	21-Dec-13	ALEX122113.SSF	571650.366	38813
722037.991	4294295.409	8754	21-Dec-13	ALEX122113.SSF	571651.3201	38814
722037.418	4294296.128	7964	21-Dec-13	ALEX122113.SSF	571652.3721	38815
722036.918	4294296.69	8662	21-Dec-13	ALEX122113.SSF	571653.281	38816
722036.399	4294297.408	9272	21-Dec-13	ALEX122113.SSF	571654.3479	38817
722035.993	4294298.004	9278	21-Dec-13	ALEX122113.SSF	571655.2949	38818
722035.452	4294298.657	9399	21-Dec-13	ALEX122113.SSF	571656.4089	38819
722034.995	4294299.289	9700	21-Dec-13	ALEX122113.SSF	571657.3369	38820
722034.542	4294299.895	9685	21-Dec-13	ALEX122113.SSF	571658.3101	38821
722034.074	4294300.477	9231	21-Dec-13	ALEX122113.SSF	571659.3369	38822
722033.66	4294301.169	8757	21-Dec-13	ALEX122113.SSF	571660.3579	38823
722033.225	4294301.729	9149	21-Dec-13	ALEX122113.SSF	571661.3149	38824
722032.662	4294302.283	9487	21-Dec-13	ALEX122113.SSF	571662.344	38825
722032.108	4294302.969	9421	21-Dec-13	ALEX122113.SSF	571663.3511	38826
722031.575	4294303.593	9405	21-Dec-13	ALEX122113.SSF	571664.3911	38827
722031.134	4294304.055	8561	21-Dec-13	ALEX122113.SSF	571665.2991	38828
722030.63	4294304.679	8230	21-Dec-13	ALEX122113.SSF	571666.2971	38829
722030.073	4294305.428	8357	21-Dec-13	ALEX122113.SSF	571667.3511	38830
722029.601	4294306.017	8299	21-Dec-13	ALEX122113.SSF	571668.3369	38831
722029.137	4294306.603	8914	21-Dec-13	ALEX122113.SSF	571669.3821	38832
722028.622	4294307.294	9218	21-Dec-13	ALEX122113.SSF	571670.3789	38833
722028.101	4294307.904	9114	21-Dec-13	ALEX122113.SSF	571671.3479	38834
722027.598	4294308.433	8428	21-Dec-13	ALEX122113.SSF	571672.3391	38835
722027.089	4294309.077	9217	21-Dec-13	ALEX122113.SSF	571673.3201	38836
722026.532	4294309.737	10194	21-Dec-13	ALEX122113.SSF	571674.376	38837
722026.089	4294310.205	9178	21-Dec-13	ALEX122113.SSF	571675.2629	38838
722025.537	4294310.886	9674	21-Dec-13	ALEX122113.SSF	571676.3459	38839
722025.044	4294311.489	10548	21-Dec-13	ALEX122113.SSF	571677.248	38840
722024.523	4294312.113	10767	21-Dec-13	ALEX122113.SSF	571678.283	38841
722024.014	4294312.782	9711	21-Dec-13	ALEX122113.SSF	571679.249	38842
722023.49	4294313.466	9778	21-Dec-13	ALEX122113.SSF	571680.262	38843
722022.999	4294314.095	8984	21-Dec-13	ALEX122113.SSF	571681.292	38844
722022.538	4294314.807	9206	21-Dec-13	ALEX122113.SSF	571682.324	38845
722022.092	4294315.516	9651	21-Dec-13	ALEX122113.SSF	571683.259	38846
722021.472	4294316.321	10212	21-Dec-13	ALEX122113.SSF	571684.2791	38847
722020.948	4294317.086	9306	21-Dec-13	ALEX122113.SSF	571685.3301	38848

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722020.486	4294317.704	9293	21-Dec-13	ALEX122113.SSF	571686.354	38849
722019.967	4294318.249	9506	21-Dec-13	ALEX122113.SSF	571687.2959	38850
722019.454	4294318.946	10878	21-Dec-13	ALEX122113.SSF	571688.333	38851
722018.964	4294319.627	10339	21-Dec-13	ALEX122113.SSF	571689.2759	38852
722018.296	4294320.182	9094	21-Dec-13	ALEX122113.SSF	571690.3479	38853
722017.895	4294320.408	9233	21-Dec-13	ALEX122113.SSF	571691.2859	38854
722017.822	4294320.489	10468	21-Dec-13	ALEX122113.SSF	571692.322	38855
722017.845	4294320.524	10087	21-Dec-13	ALEX122113.SSF	571693.249	38856
722017.671	4294320.521	9721	21-Dec-13	ALEX122113.SSF	571694.333	38857
722017.617	4294320.464	9120	21-Dec-13	ALEX122113.SSF	571695.26	38858
722017.771	4294320.451	8190	21-Dec-13	ALEX122113.SSF	571696.3301	38859
722017.806	4294320.498	8977	21-Dec-13	ALEX122113.SSF	571697.2739	38860
722017.769	4294320.544	9714	21-Dec-13	ALEX122113.SSF	571698.3821	38861
722017.786	4294320.578	10258	21-Dec-13	ALEX122113.SSF	571699.303	38862
722017.787	4294320.603	9734	21-Dec-13	ALEX122113.SSF	571700.3469	38863
722017.776	4294320.606	9633	21-Dec-13	ALEX122113.SSF	571701.2649	38864
722017.752	4294320.611	10838	21-Dec-13	ALEX122113.SSF	571702.3911	38865
722017.741	4294320.633	10419	21-Dec-13	ALEX122113.SSF	571703.324	38866
722017.731	4294320.638	9775	21-Dec-13	ALEX122113.SSF	571704.3311	38867
722017.729	4294320.625	10033	21-Dec-13	ALEX122113.SSF	571705.2981	38868
722017.725	4294320.613	10278	21-Dec-13	ALEX122113.SSF	571706.3721	38869
722017.699	4294320.623	9229	21-Dec-13	ALEX122113.SSF	571707.217	38870
722017.638	4294320.63	9837	21-Dec-13	ALEX122113.SSF	571708.2739	38871
722017.618	4294320.612	9629	21-Dec-13	ALEX122113.SSF	571709.2151	38872
722017.63	4294320.623	9247	21-Dec-13	ALEX122113.SSF	571710.3501	38873
722017.638	4294320.629	9361	21-Dec-13	ALEX122113.SSF	571711.2549	38874
722017.644	4294320.644	9480	21-Dec-13	ALEX122113.SSF	571712.3589	38875
722017.669	4294320.642	10350	21-Dec-13	ALEX122113.SSF	571713.2671	38876
722017.707	4294320.635	9517	21-Dec-13	ALEX122113.SSF	571714.291	38877
722017.729	4294320.63	9789	21-Dec-13	ALEX122113.SSF	571715.333	38878
722017.712	4294320.645	9857	21-Dec-13	ALEX122113.SSF	571716.363	38879
722017.706	4294320.657	10174	21-Dec-13	ALEX122113.SSF	571717.3181	38880
722017.676	4294320.666	9053	21-Dec-13	ALEX122113.SSF	571718.3979	38881
722017.626	4294320.664	9823	21-Dec-13	ALEX122113.SSF	571719.3269	38882
722017.584	4294320.637	9296	21-Dec-13	ALEX122113.SSF	571720.3291	38883
722017.551	4294320.624	8954	21-Dec-13	ALEX122113.SSF	571721.2959	38884
722017.511	4294320.591	8868	21-Dec-13	ALEX122113.SSF	571722.374	38885
722017.515	4294320.584	9597	21-Dec-13	ALEX122113.SSF	571723.3201	38886
722017.559	4294320.674	10169	21-Dec-13	ALEX122113.SSF	571724.3711	38887
722017.568	4294320.725	9622	21-Dec-13	ALEX122113.SSF	571725.262	38888
722017.553	4294320.754	9635	21-Dec-13	ALEX122113.SSF	571726.241	38889
722017.512	4294320.772	8498	21-Dec-13	ALEX122113.SSF	571727.1799	38890
722017.453	4294320.81	9834	21-Dec-13	ALEX122113.SSF	571728.2561	38891
722017.402	4294320.849	8398	21-Dec-13	ALEX122113.SSF	571729.1531	38892
722017.392	4294320.814	9029	21-Dec-13	ALEX122113.SSF	571730.272	38893
722017.443	4294320.748	9247	21-Dec-13	ALEX122113.SSF	571731.2319	38894
722017.201	4294320.803	9721	21-Dec-13	ALEX122113.SSF	571732.26	38895

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722017.031	4294320.851	10560	21-Dec-13	ALEX122113.SSF	571733.2241	38896
722016.932	4294320.865	9210	21-Dec-13	ALEX122113.SSF	571734.324	38897
722016.895	4294320.834	8842	21-Dec-13	ALEX122113.SSF	571735.2019	38898
722016.869	4294320.746	9680	21-Dec-13	ALEX122113.SSF	571736.3181	38899
722016.817	4294320.758	10010	21-Dec-13	ALEX122113.SSF	571737.2209	38900
722016.854	4294320.743	10182	21-Dec-13	ALEX122113.SSF	571738.3459	38901
722016.928	4294320.46	9745	21-Dec-13	ALEX122113.SSF	571739.259	38902
722016.637	4294320.086	9576	21-Dec-13	ALEX122113.SSF	571740.3669	38903
722016.311	4294320.092	10374	21-Dec-13	ALEX122113.SSF	571741.3149	38904
722016.033	4294320.162	10003	21-Dec-13	ALEX122113.SSF	571742.333	38905
722015.88	4294320.204	8981	21-Dec-13	ALEX122113.SSF	571743.2009	38906
722015.911	4294320.128	9205	21-Dec-13	ALEX122113.SSF	571744.3579	38907
722016.002	4294319.915	8931	21-Dec-13	ALEX122113.SSF	571745.2729	38908
722016.065	4294320.095	9192	21-Dec-13	ALEX122113.SSF	571746.3521	38909
722016.186	4294320.255	8238	21-Dec-13	ALEX122113.SSF	571747.2629	38910
722016.367	4294320.156	7729	21-Dec-13	ALEX122113.SSF	571748.4041	38911
722016.47	4294320.105	9642	21-Dec-13	ALEX122113.SSF	571749.2771	38912
722016.553	4294320.124	8980	21-Dec-13	ALEX122113.SSF	571750.345	38913
722016.595	4294320.162	9055	21-Dec-13	ALEX122113.SSF	571751.2759	38914
722016.611	4294320.25	9163	21-Dec-13	ALEX122113.SSF	571752.2981	38915
722016.603	4294320.341	8561	21-Dec-13	ALEX122113.SSF	571753.23	38916
722016.605	4294320.348	9160	21-Dec-13	ALEX122113.SSF	571754.314	38917
722016.616	4294320.35	8860	21-Dec-13	ALEX122113.SSF	571755.249	38918
722016.589	4294320.446	9535	21-Dec-13	ALEX122113.SSF	571756.3069	38919
722016.585	4294320.526	10153	21-Dec-13	ALEX122113.SSF	571757.229	38920
722016.615	4294320.484	10578	21-Dec-13	ALEX122113.SSF	571758.3511	38921
722016.618	4294320.29	10204	21-Dec-13	ALEX122113.SSF	571759.22	38922
722016.647	4294319.886	9091	21-Dec-13	ALEX122113.SSF	571760.2859	38923
722016.783	4294319.488	8632	21-Dec-13	ALEX122113.SSF	571761.3291	38924
722016.858	4294319.229	9118	21-Dec-13	ALEX122113.SSF	571762.2959	38925
722016.816	4294319.172	9359	21-Dec-13	ALEX122113.SSF	571763.2229	38926
722016.861	4294319.144	9120	21-Dec-13	ALEX122113.SSF	571764.2939	38927
722017.165	4294318.813	9540	21-Dec-13	ALEX122113.SSF	571765.1951	38928
722017.679	4294318.171	9435	21-Dec-13	ALEX122113.SSF	571766.262	38929
722018.13	4294317.626	9198	21-Dec-13	ALEX122113.SSF	571767.1909	38930
722018.625	4294316.954	9499	21-Dec-13	ALEX122113.SSF	571768.303	38931
722019.103	4294316.282	9484	21-Dec-13	ALEX122113.SSF	571769.2581	38932
722019.656	4294315.561	8851	21-Dec-13	ALEX122113.SSF	571770.3601	38933
722020.062	4294314.943	9892	21-Dec-13	ALEX122113.SSF	571771.2029	38934
722020.629	4294314.109	8833	21-Dec-13	ALEX122113.SSF	571772.366	38935
722021.008	4294313.606	10158	21-Dec-13	ALEX122113.SSF	571773.1919	38936
722021.503	4294312.693	8959	21-Dec-13	ALEX122113.SSF	571774.3521	38937
722021.971	4294311.906	9649	21-Dec-13	ALEX122113.SSF	571775.2791	38938
722022.604	4294311.119	10572	21-Dec-13	ALEX122113.SSF	571776.293	38939
722023.223	4294310.429	9843	21-Dec-13	ALEX122113.SSF	571777.311	38940
722023.742	4294309.854	9210	21-Dec-13	ALEX122113.SSF	571778.2371	38941
722024.344	4294309.167	9022	21-Dec-13	ALEX122113.SSF	571779.179	38942

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722024.978	4294308.436	9035	21-Dec-13	ALEX122113.SSF	571780.3469	38943
722025.468	4294307.843	8139	21-Dec-13	ALEX122113.SSF	571781.3201	38944
722026.03	4294307.243	7854	21-Dec-13	ALEX122113.SSF	571782.3921	38945
722026.556	4294306.724	9283	21-Dec-13	ALEX122113.SSF	571783.322	38946
722027.102	4294305.975	10181	21-Dec-13	ALEX122113.SSF	571784.335	38947
722027.564	4294305.231	8515	21-Dec-13	ALEX122113.SSF	571785.271	38948
722028.155	4294304.451	8908	21-Dec-13	ALEX122113.SSF	571786.3491	38949
722028.677	4294303.77	8707	21-Dec-13	ALEX122113.SSF	571787.302	38950
722029.276	4294302.953	8176	21-Dec-13	ALEX122113.SSF	571788.313	38951
722029.935	4294302.158	9064	21-Dec-13	ALEX122113.SSF	571789.271	38952
722030.65	4294301.38	8026	21-Dec-13	ALEX122113.SSF	571790.313	38953
722031.181	4294300.6	8396	21-Dec-13	ALEX122113.SSF	571791.3279	38954
722031.673	4294299.79	9089	21-Dec-13	ALEX122113.SSF	571792.301	38955
722032.257	4294299.066	9682	21-Dec-13	ALEX122113.SSF	571793.2419	38956
722032.902	4294298.429	10070	21-Dec-13	ALEX122113.SSF	571794.2109	38957
722033.546	4294297.743	9717	21-Dec-13	ALEX122113.SSF	571795.313	38958
722034.198	4294296.996	9719	21-Dec-13	ALEX122113.SSF	571796.3411	38959
722034.703	4294296.305	9630	21-Dec-13	ALEX122113.SSF	571797.23	38960
722035.3	4294295.263	9457	21-Dec-13	ALEX122113.SSF	571798.3921	38961
722035.783	4294294.531	10704	21-Dec-13	ALEX122113.SSF	571799.301	38962
722036.365	4294293.875	9696	21-Dec-13	ALEX122113.SSF	571800.3279	38963
722036.872	4294293.204	9624	21-Dec-13	ALEX122113.SSF	571801.2791	38964
722037.404	4294292.397	9246	21-Dec-13	ALEX122113.SSF	571802.3059	38965
722037.961	4294291.721	8551	21-Dec-13	ALEX122113.SSF	571803.1919	38966
722038.636	4294290.942	8617	21-Dec-13	ALEX122113.SSF	571804.354	38967
722039.051	4294290.367	10704	21-Dec-13	ALEX122113.SSF	571805.1431	38968
722039.626	4294289.525	10656	21-Dec-13	ALEX122113.SSF	571806.228	38969
722040.079	4294288.907	8184	21-Dec-13	ALEX122113.SSF	571807.1489	38970
722040.592	4294288.041	8466	21-Dec-13	ALEX122113.SSF	571808.321	38971
722040.955	4294287.468	8296	21-Dec-13	ALEX122113.SSF	571809.156	38972
722041.568	4294286.796	8854	21-Dec-13	ALEX122113.SSF	571810.313	38973
722042.07	4294286.093	8513	21-Dec-13	ALEX122113.SSF	571811.2959	38974
722042.572	4294285.237	8098	21-Dec-13	ALEX122113.SSF	571812.3159	38975
722043.067	4294284.505	8864	21-Dec-13	ALEX122113.SSF	571813.2549	38976
722043.621	4294283.873	8966	21-Dec-13	ALEX122113.SSF	571814.3279	38977
722044.146	4294283.237	8811	21-Dec-13	ALEX122113.SSF	571815.271	38978
722044.71	4294282.504	9192	21-Dec-13	ALEX122113.SSF	571816.248	38979
722045.244	4294281.814	9468	21-Dec-13	ALEX122113.SSF	571817.304	38980
722045.794	4294281.03	10347	21-Dec-13	ALEX122113.SSF	571818.2429	38981
722046.265	4294280.291	10746	21-Dec-13	ALEX122113.SSF	571819.158	38982
722046.99	4294279.459	9436	21-Dec-13	ALEX122113.SSF	571820.3269	38983
722047.583	4294278.801	8929	21-Dec-13	ALEX122113.SSF	571821.325	38984
722048.157	4294278.158	9612	21-Dec-13	ALEX122113.SSF	571822.2859	38985
722048.83	4294277.419	9063	21-Dec-13	ALEX122113.SSF	571823.2451	38986
722049.644	4294276.471	9165	21-Dec-13	ALEX122113.SSF	571824.3311	38987
722050.089	4294275.729	9911	21-Dec-13	ALEX122113.SSF	571825.2451	38988
722050.64	4294274.894	9168	21-Dec-13	ALEX122113.SSF	571826.2419	38989

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722051.225	4294274.198	8202	21-Dec-13	ALEX122113.SSF	571827.1799	38990
722051.843	4294273.357	9820	21-Dec-13	ALEX122113.SSF	571828.3369	38991
722052.296	4294272.628	9205	21-Dec-13	ALEX122113.SSF	571829.2429	38992
722052.8	4294271.825	8721	21-Dec-13	ALEX122113.SSF	571830.2109	38993
722053.359	4294271.039	9380	21-Dec-13	ALEX122113.SSF	571831.2739	38994
722054.005	4294270.196	8795	21-Dec-13	ALEX122113.SSF	571832.2981	38995
722054.56	4294269.436	9488	21-Dec-13	ALEX122113.SSF	571833.343	38996
722055.092	4294268.874	8822	21-Dec-13	ALEX122113.SSF	571834.2571	38997
722055.828	4294268.253	8685	21-Dec-13	ALEX122113.SSF	571835.3	38998
722056.647	4294267.339	8231	21-Dec-13	ALEX122113.SSF	571836.2981	38999
722057.297	4294266.437	8688	21-Dec-13	ALEX122113.SSF	571837.2971	39000
722057.845	4294265.773	8202	21-Dec-13	ALEX122113.SSF	571838.2791	39001
722058.425	4294265.036	9070	21-Dec-13	ALEX122113.SSF	571839.313	39002
722059.103	4294264.084	8687	21-Dec-13	ALEX122113.SSF	571840.3479	39003
722059.603	4294263.27	8921	21-Dec-13	ALEX122113.SSF	571841.312	39004
722060.154	4294262.545	8800	21-Dec-13	ALEX122113.SSF	571842.3779	39005
722060.662	4294262.055	8800	21-Dec-13	ALEX122113.SSF	571843.2839	39006
722061.281	4294261.489	8740	21-Dec-13	ALEX122113.SSF	571844.3789	39007
722061.664	4294261.036	9085	21-Dec-13	ALEX122113.SSF	571845.2839	39008
722062.113	4294260.405	9621	21-Dec-13	ALEX122113.SSF	571846.325	39009
722062.576	4294259.764	9455	21-Dec-13	ALEX122113.SSF	571847.373	39010
722062.953	4294259.251	8873	21-Dec-13	ALEX122113.SSF	571848.3049	39011
722063.392	4294258.66	8848	21-Dec-13	ALEX122113.SSF	571849.2871	39012
722063.633	4294258.112	9772	21-Dec-13	ALEX122113.SSF	571850.2849	39013
722063.464	4294258.015	8563	21-Dec-13	ALEX122113.SSF	571851.145	39014
722063.114	4294258.054	7960	21-Dec-13	ALEX122113.SSF	571852.2581	39015
722062.846	4294257.629	8950	21-Dec-13	ALEX122113.SSF	571853.1799	39016
722062.269	4294257.26	7787	21-Dec-13	ALEX122113.SSF	571854.2959	39017
722061.998	4294257.168	8636	21-Dec-13	ALEX122113.SSF	571855.262	39018
722062.034	4294257.207	8369	21-Dec-13	ALEX122113.SSF	571856.3369	39019
722062.018	4294257.284	8662	21-Dec-13	ALEX122113.SSF	571857.2329	39020
722061.766	4294257.467	8075	21-Dec-13	ALEX122113.SSF	571858.2439	39021
722061.376	4294257.877	8048	21-Dec-13	ALEX122113.SSF	571859.2	39022
722060.918	4294258.553	7952	21-Dec-13	ALEX122113.SSF	571860.3521	39023
722060.475	4294259.088	8378	21-Dec-13	ALEX122113.SSF	571861.2461	39024
722059.92	4294259.73	8994	21-Dec-13	ALEX122113.SSF	571862.4431	39025
722059.616	4294260.118	8368	21-Dec-13	ALEX122113.SSF	571863.187	39026
722059.035	4294260.776	7702	21-Dec-13	ALEX122113.SSF	571864.321	39027
722058.629	4294261.365	8615	21-Dec-13	ALEX122113.SSF	571865.2971	39028
722058.306	4294262.083	9353	21-Dec-13	ALEX122113.SSF	571866.3831	39029
722057.801	4294262.667	8818	21-Dec-13	ALEX122113.SSF	571867.3621	39030
722057.21	4294263.129	9494	21-Dec-13	ALEX122113.SSF	571868.2891	39031
722056.698	4294263.743	8193	21-Dec-13	ALEX122113.SSF	571869.3469	39032
722056.278	4294264.324	7208	21-Dec-13	ALEX122113.SSF	571870.3831	39033
722055.891	4294264.748	8342	21-Dec-13	ALEX122113.SSF	571871.2129	39034
722055.296	4294265.471	9555	21-Dec-13	ALEX122113.SSF	571872.3401	39035
722054.762	4294266.082	9078	21-Dec-13	ALEX122113.SSF	571873.3169	39036

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722054.148	4294266.657	9439	21-Dec-13	ALEX122113.SSF	571874.3149	39037
722053.599	4294267.327	8780	21-Dec-13	ALEX122113.SSF	571875.3091	39038
722053.105	4294268.157	8945	21-Dec-13	ALEX122113.SSF	571876.343	39039
722052.721	4294268.752	9406	21-Dec-13	ALEX122113.SSF	571877.1831	39040
722052.112	4294269.461	8351	21-Dec-13	ALEX122113.SSF	571878.322	39041
722051.535	4294270.151	8688	21-Dec-13	ALEX122113.SSF	571879.3459	39042
722051.032	4294270.764	9822	21-Dec-13	ALEX122113.SSF	571880.303	39043
722050.532	4294271.352	9685	21-Dec-13	ALEX122113.SSF	571881.2141	39044
722050.01	4294272.079	8301	21-Dec-13	ALEX122113.SSF	571882.2561	39045
722049.544	4294272.787	8825	21-Dec-13	ALEX122113.SSF	571883.302	39046
722049.043	4294273.376	8386	21-Dec-13	ALEX122113.SSF	571884.2881	39047
722048.483	4294273.896	8066	21-Dec-13	ALEX122113.SSF	571885.2661	39048
722047.962	4294274.506	8826	21-Dec-13	ALEX122113.SSF	571886.3069	39049
722047.521	4294275.118	8386	21-Dec-13	ALEX122113.SSF	571887.2629	39050
722046.879	4294275.805	9086	21-Dec-13	ALEX122113.SSF	571888.3149	39051
722046.376	4294276.386	9171	21-Dec-13	ALEX122113.SSF	571889.2319	39052
722045.932	4294277.106	9613	21-Dec-13	ALEX122113.SSF	571890.27	39053
722045.411	4294277.846	9723	21-Dec-13	ALEX122113.SSF	571891.2891	39054
722044.761	4294278.611	8160	21-Dec-13	ALEX122113.SSF	571892.314	39055
722044.086	4294279.281	8190	21-Dec-13	ALEX122113.SSF	571893.304	39056
722043.594	4294279.856	8047	21-Dec-13	ALEX122113.SSF	571894.2781	39057
722043.114	4294280.441	8582	21-Dec-13	ALEX122113.SSF	571895.283	39058
722042.463	4294281.068	9915	21-Dec-13	ALEX122113.SSF	571896.321	39059
722041.931	4294281.636	9828	21-Dec-13	ALEX122113.SSF	571897.2271	39060
722041.416	4294282.425	9867	21-Dec-13	ALEX122113.SSF	571898.303	39061
722040.972	4294283.044	9007	21-Dec-13	ALEX122113.SSF	571899.21	39062
722040.314	4294283.729	8191	21-Dec-13	ALEX122113.SSF	571900.3621	39063
722039.852	4294284.281	8647	21-Dec-13	ALEX122113.SSF	571901.2241	39064
722039.339	4294284.987	9032	21-Dec-13	ALEX122113.SSF	571902.3721	39065
722038.809	4294285.535	8018	21-Dec-13	ALEX122113.SSF	571903.3369	39066
722038.273	4294286.194	8724	21-Dec-13	ALEX122113.SSF	571904.3821	39067
722037.873	4294286.829	9951	21-Dec-13	ALEX122113.SSF	571905.269	39068
722037.367	4294287.544	10107	21-Dec-13	ALEX122113.SSF	571906.2891	39069
722037.015	4294288.017	9757	21-Dec-13	ALEX122113.SSF	571907.1021	39070
722036.545	4294288.626	9759	21-Dec-13	ALEX122113.SSF	571908.2141	39071
722036.057	4294289.144	9699	21-Dec-13	ALEX122113.SSF	571909.1311	39072
722035.356	4294289.863	9985	21-Dec-13	ALEX122113.SSF	571910.342	39073
722034.9	4294290.401	8706	21-Dec-13	ALEX122113.SSF	571911.104	39074
722034.281	4294291.23	9646	21-Dec-13	ALEX122113.SSF	571912.2771	39075
722033.696	4294291.816	9551	21-Dec-13	ALEX122113.SSF	571913.238	39076
722033.137	4294292.419	9168	21-Dec-13	ALEX122113.SSF	571914.2671	39077
722032.587	4294293.028	9102	21-Dec-13	ALEX122113.SSF	571915.3169	39078
722031.962	4294293.564	9955	21-Dec-13	ALEX122113.SSF	571916.291	39079
722031.416	4294294.122	9329	21-Dec-13	ALEX122113.SSF	571917.313	39080
722030.901	4294294.751	9592	21-Dec-13	ALEX122113.SSF	571918.301	39081
722030.392	4294295.37	9298	21-Dec-13	ALEX122113.SSF	571919.269	39082
722029.918	4294296.012	9134	21-Dec-13	ALEX122113.SSF	571920.293	39083

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722029.49	4294296.7	7983	21-Dec-13	ALEX122113.SSF	571921.241	39084
722028.995	4294297.47	8955	21-Dec-13	ALEX122113.SSF	571922.3081	39085
722028.49	4294298.062	9528	21-Dec-13	ALEX122113.SSF	571923.231	39086
722027.999	4294298.718	9402	21-Dec-13	ALEX122113.SSF	571924.2949	39087
722027.637	4294299.301	9160	21-Dec-13	ALEX122113.SSF	571925.1621	39088
722027.028	4294300.096	8350	21-Dec-13	ALEX122113.SSF	571926.3069	39089
722026.64	4294300.653	9017	21-Dec-13	ALEX122113.SSF	571927.188	39090
722026.196	4294301.443	7984	21-Dec-13	ALEX122113.SSF	571928.2849	39091
722025.651	4294302.16	8386	21-Dec-13	ALEX122113.SSF	571929.2729	39092
722025.029	4294302.827	8636	21-Dec-13	ALEX122113.SSF	571930.282	39093
722024.494	4294303.503	8489	21-Dec-13	ALEX122113.SSF	571931.249	39094
722024.025	4294304.267	9352	21-Dec-13	ALEX122113.SSF	571932.2571	39095
722023.595	4294304.877	9328	21-Dec-13	ALEX122113.SSF	571933.1201	39096
722023.139	4294305.563	9472	21-Dec-13	ALEX122113.SSF	571934.3069	39097
722022.704	4294306.153	8968	21-Dec-13	ALEX122113.SSF	571935.301	39098
722022.038	4294306.842	8632	21-Dec-13	ALEX122113.SSF	571936.3359	39099
722021.446	4294307.545	9148	21-Dec-13	ALEX122113.SSF	571937.323	39100
722020.931	4294308.299	9037	21-Dec-13	ALEX122113.SSF	571938.3579	39101
722020.418	4294308.897	8889	21-Dec-13	ALEX122113.SSF	571939.27	39102
722019.882	4294309.419	9572	21-Dec-13	ALEX122113.SSF	571940.187	39103
722019.43	4294309.995	9053	21-Dec-13	ALEX122113.SSF	571941.113	39104
722018.997	4294310.883	10633	21-Dec-13	ALEX122113.SSF	571942.1841	39105
722018.534	4294311.61	9888	21-Dec-13	ALEX122113.SSF	571943.1731	39106
722017.933	4294312.28	10062	21-Dec-13	ALEX122113.SSF	571944.1841	39107
722017.467	4294312.83	9235	21-Dec-13	ALEX122113.SSF	571945.1289	39108
722017.026	4294313.468	9239	21-Dec-13	ALEX122113.SSF	571946.291	39109
722016.501	4294313.964	8789	21-Dec-13	ALEX122113.SSF	571947.2339	39110
722015.941	4294314.475	9277	21-Dec-13	ALEX122113.SSF	571948.27	39111
722015.448	4294315.121	10179	21-Dec-13	ALEX122113.SSF	571949.271	39112
722014.913	4294315.755	11004	21-Dec-13	ALEX122113.SSF	571950.2991	39113
722014.467	4294316.317	9891	21-Dec-13	ALEX122113.SSF	571951.3401	39114
722014.12	4294316.964	8532	21-Dec-13	ALEX122113.SSF	571952.3601	39115
722013.746	4294317.498	9813	21-Dec-13	ALEX122113.SSF	571953.3721	39116
722013.31	4294317.606	10643	21-Dec-13	ALEX122113.SSF	571954.406	39117
722012.946	4294317.34	9530	21-Dec-13	ALEX122113.SSF	571955.3181	39118
722012.602	4294317.001	10422	21-Dec-13	ALEX122113.SSF	571956.2251	39119
722012.361	4294316.801	10315	21-Dec-13	ALEX122113.SSF	571957.146	39120
722012.313	4294316.844	9989	21-Dec-13	ALEX122113.SSF	571958.2109	39121
722012.306	4294316.934	9187	21-Dec-13	ALEX122113.SSF	571959.187	39122
722012.313	4294316.801	9406	21-Dec-13	ALEX122113.SSF	571960.3049	39123
722012.467	4294316.509	8471	21-Dec-13	ALEX122113.SSF	571961.2261	39124
722012.865	4294315.978	10548	21-Dec-13	ALEX122113.SSF	571962.251	39125
722013.284	4294315.378	8757	21-Dec-13	ALEX122113.SSF	571963.1011	39126
722013.839	4294314.426	9929	21-Dec-13	ALEX122113.SSF	571964.2571	39127
722014.335	4294313.713	9892	21-Dec-13	ALEX122113.SSF	571965.2939	39128
722014.754	4294313.123	9463	21-Dec-13	ALEX122113.SSF	571966.314	39129
722015.081	4294312.489	9565	21-Dec-13	ALEX122113.SSF	571967.2051	39130

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722015.52	4294311.568	9621	21-Dec-13	ALEX122113.SSF	571968.313	39131
722015.962	4294310.88	8915	21-Dec-13	ALEX122113.SSF	571969.2251	39132
722016.49	4294310.204	8918	21-Dec-13	ALEX122113.SSF	571970.302	39133
722016.975	4294309.607	8619	21-Dec-13	ALEX122113.SSF	571971.166	39134
722017.622	4294308.735	9265	21-Dec-13	ALEX122113.SSF	571972.4131	39135
722017.988	4294308.242	8286	21-Dec-13	ALEX122113.SSF	571973.1599	39136
722018.481	4294307.458	8581	21-Dec-13	ALEX122113.SSF	571974.22	39137
722018.988	4294306.656	9255	21-Dec-13	ALEX122113.SSF	571975.2891	39138
722019.55	4294305.946	10263	21-Dec-13	ALEX122113.SSF	571976.2839	39139
722020.028	4294305.308	9646	21-Dec-13	ALEX122113.SSF	571977.1919	39140
722020.575	4294304.397	10391	21-Dec-13	ALEX122113.SSF	571978.2759	39141
722021.025	4294303.602	10458	21-Dec-13	ALEX122113.SSF	571979.1731	39142
722021.669	4294302.74	8854	21-Dec-13	ALEX122113.SSF	571980.272	39143
722022.283	4294302.126	9047	21-Dec-13	ALEX122113.SSF	571981.2141	39144
722022.843	4294301.468	9126	21-Dec-13	ALEX122113.SSF	571982.1609	39145
722023.374	4294300.688	8821	21-Dec-13	ALEX122113.SSF	571983.1699	39146
722023.93	4294300.054	9645	21-Dec-13	ALEX122113.SSF	571984.147	39147
722024.521	4294299.517	9821	21-Dec-13	ALEX122113.SSF	571985.1631	39148
722025.091	4294298.786	10225	21-Dec-13	ALEX122113.SSF	571986.2219	39149
722025.541	4294298.193	9846	21-Dec-13	ALEX122113.SSF	571987.0659	39150
722026.3	4294297.464	9151	21-Dec-13	ALEX122113.SSF	571988.2671	39151
722026.822	4294296.852	8587	21-Dec-13	ALEX122113.SSF	571989.2219	39152
722027.363	4294296.148	8807	21-Dec-13	ALEX122113.SSF	571990.26	39153
722027.929	4294295.563	8471	21-Dec-13	ALEX122113.SSF	571991.145	39154
722028.581	4294294.928	8178	21-Dec-13	ALEX122113.SSF	571992.2151	39155
722029.093	4294294.202	8044	21-Dec-13	ALEX122113.SSF	571993.1831	39156
722029.656	4294293.432	8281	21-Dec-13	ALEX122113.SSF	571994.248	39157
722030.271	4294292.768	8370	21-Dec-13	ALEX122113.SSF	571995.2949	39158
722030.892	4294292.05	8902	21-Dec-13	ALEX122113.SSF	571996.3081	39159
722031.439	4294291.356	9545	21-Dec-13	ALEX122113.SSF	571997.2261	39160
722032.084	4294290.562	9106	21-Dec-13	ALEX122113.SSF	571998.344	39161
722032.561	4294290	8966	21-Dec-13	ALEX122113.SSF	571999.231	39162
722033.114	4294289.258	8901	21-Dec-13	ALEX122113.SSF	572000.271	39163
722033.568	4294288.579	9545	21-Dec-13	ALEX122113.SSF	572001.178	39164
722034.35	4294287.791	10696	21-Dec-13	ALEX122113.SSF	572002.415	39165
722034.842	4294287.404	9694	21-Dec-13	ALEX122113.SSF	572003.1541	39166
722035.593	4294286.559	9653	21-Dec-13	ALEX122113.SSF	572004.3469	39167
722036.002	4294285.956	10063	21-Dec-13	ALEX122113.SSF	572005.106	39168
722036.633	4294285.174	11036	21-Dec-13	ALEX122113.SSF	572006.252	39169
722037.266	4294284.597	9119	21-Dec-13	ALEX122113.SSF	572007.1589	39170
722037.849	4294283.917	9119	21-Dec-13	ALEX122113.SSF	572008.231	39171
722038.331	4294283.311	8940	21-Dec-13	ALEX122113.SSF	572009.084	39172
722039.214	4294282.469	8595	21-Dec-13	ALEX122113.SSF	572010.304	39173
722039.855	4294281.804	9288	21-Dec-13	ALEX122113.SSF	572011.3379	39174
722040.435	4294281.167	8832	21-Dec-13	ALEX122113.SSF	572012.342	39175
722041.016	4294280.611	8598	21-Dec-13	ALEX122113.SSF	572013.2109	39176
722041.77	4294279.842	10009	21-Dec-13	ALEX122113.SSF	572014.365	39177

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722042.284	4294279.171	10602	21-Dec-13	ALEX122113.SSF	572015.322	39178
722042.946	4294278.462	9130	21-Dec-13	ALEX122113.SSF	572016.3279	39179
722043.532	4294277.98	10202	21-Dec-13	ALEX122113.SSF	572017.158	39180
722044.295	4294277.186	9780	21-Dec-13	ALEX122113.SSF	572018.3521	39181
722044.725	4294276.582	8925	21-Dec-13	ALEX122113.SSF	572019.1321	39182
722045.263	4294275.872	8471	21-Dec-13	ALEX122113.SSF	572020.127	39183
722045.924	4294275.254	8298	21-Dec-13	ALEX122113.SSF	572021.075	39184
722046.591	4294274.631	9244	21-Dec-13	ALEX122113.SSF	572022.137	39185
722047.191	4294274.01	7861	21-Dec-13	ALEX122113.SSF	572023.0769	39186
722047.859	4294273.239	7845	21-Dec-13	ALEX122113.SSF	572024.2119	39187
722048.497	4294272.645	7031	21-Dec-13	ALEX122113.SSF	572025.269	39188
722049.043	4294272.095	7428	21-Dec-13	ALEX122113.SSF	572026.3049	39189
722049.509	4294271.458	8667	21-Dec-13	ALEX122113.SSF	572027.2781	39190
722050.041	4294270.759	8976	21-Dec-13	ALEX122113.SSF	572028.3101	39191
722050.67	4294270.129	8844	21-Dec-13	ALEX122113.SSF	572029.3459	39192
722051.147	4294269.513	9201	21-Dec-13	ALEX122113.SSF	572030.2971	39193
722051.52	4294268.813	9050	21-Dec-13	ALEX122113.SSF	572031.2771	39194
722052.081	4294268.059	9762	21-Dec-13	ALEX122113.SSF	572032.292	39195
722052.866	4294267.314	9070	21-Dec-13	ALEX122113.SSF	572033.2209	39196
722053.643	4294266.47	9257	21-Dec-13	ALEX122113.SSF	572034.2429	39197
722054.233	4294265.568	9124	21-Dec-13	ALEX122113.SSF	572035.27	39198
722054.74	4294264.854	9331	21-Dec-13	ALEX122113.SSF	572036.1819	39199
722055.337	4294264.303	8482	21-Dec-13	ALEX122113.SSF	572037.2109	39200
722055.711	4294263.905	8180	21-Dec-13	ALEX122113.SSF	572038.2329	39201
722055.829	4294263.721	7925	21-Dec-13	ALEX122113.SSF	572039.2329	39202
722055.894	4294263.704	8641	21-Dec-13	ALEX122113.SSF	572040.269	39203
722056.18	4294263.591	8460	21-Dec-13	ALEX122113.SSF	572041.186	39204
722056.329	4294263.516	8895	21-Dec-13	ALEX122113.SSF	572042.3259	39205
722056.362	4294263.482	8073	21-Dec-13	ALEX122113.SSF	572043.187	39206
722056.361	4294263.489	7988	21-Dec-13	ALEX122113.SSF	572044.3989	39207
722056.363	4294263.472	7517	21-Dec-13	ALEX122113.SSF	572045.105	39208
722056.413	4294263.292	8359	21-Dec-13	ALEX122113.SSF	572046.2539	39209
722056.596	4294262.946	9349	21-Dec-13	ALEX122113.SSF	572047.2871	39210
722056.946	4294262.52	8727	21-Dec-13	ALEX122113.SSF	572048.2471	39211
722057.331	4294262.092	9352	21-Dec-13	ALEX122113.SSF	572049.1001	39212
722057.848	4294261.382	7888	21-Dec-13	ALEX122113.SSF	572050.2791	39213
722058.186	4294260.726	9172	21-Dec-13	ALEX122113.SSF	572051.2419	39214
722058.656	4294260.005	8593	21-Dec-13	ALEX122113.SSF	572052.2439	39215
722059.398	4294259.307	8778	21-Dec-13	ALEX122113.SSF	572053.2339	39216
722060.044	4294258.852	8344	21-Dec-13	ALEX122113.SSF	572054.2561	39217
722060.057	4294258.669	8836	21-Dec-13	ALEX122113.SSF	572055.0649	39218
722059.896	4294258.534	7909	21-Dec-13	ALEX122113.SSF	572056.2791	39219
722059.898	4294258.459	8277	21-Dec-13	ALEX122113.SSF	572057.136	39220
722059.984	4294258.403	7739	21-Dec-13	ALEX122113.SSF	572058.2209	39221
722060.054	4294258.382	8775	21-Dec-13	ALEX122113.SSF	572059.125	39222
722059.985	4294258.284	8133	21-Dec-13	ALEX122113.SSF	572060.259	39223
722059.871	4294258.114	8363	21-Dec-13	ALEX122113.SSF	572061.2329	39224

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722059.545	4294257.748	8330	21-Dec-13	ALEX122113.SSF	572062.2871	39225
722059.102	4294257.465	7692	21-Dec-13	ALEX122113.SSF	572063.2371	39226
722058.68	4294257.166	8343	21-Dec-13	ALEX122113.SSF	572064.283	39227
722058.497	4294256.941	9495	21-Dec-13	ALEX122113.SSF	572065.302	39228
722058.53	4294256.934	8763	21-Dec-13	ALEX122113.SSF	572066.2971	39229
722058.604	4294256.999	8341	21-Dec-13	ALEX122113.SSF	572067.126	39230
722058.631	4294257.036	9375	21-Dec-13	ALEX122113.SSF	572068.2949	39231
722058.656	4294257.085	7533	21-Dec-13	ALEX122113.SSF	572069.147	39232
722058.734	4294257.167	8423	21-Dec-13	ALEX122113.SSF	572070.252	39233
722058.776	4294257.183	7716	21-Dec-13	ALEX122113.SSF	572071.2571	39234
722058.813	4294257.201	8679	21-Dec-13	ALEX122113.SSF	572072.2849	39235
722058.844	4294257.214	9549	21-Dec-13	ALEX122113.SSF	572073.228	39236
722058.842	4294257.207	8087	21-Dec-13	ALEX122113.SSF	572074.2439	39237
722058.776	4294257.159	8351	21-Dec-13	ALEX122113.SSF	572075.0549	39238
722058.741	4294257.009	8568	21-Dec-13	ALEX122113.SSF	572076.241	39239
722058.788	4294256.973	8472	21-Dec-13	ALEX122113.SSF	572077.0481	39240
722058.767	4294257.109	7878	21-Dec-13	ALEX122113.SSF	572078.1841	39241
722058.748	4294257.156	8299	21-Dec-13	ALEX122113.SSF	572079.0181	39242
722058.751	4294257.311	7834	21-Dec-13	ALEX122113.SSF	572080.2629	39243
722058.693	4294257.491	8558	21-Dec-13	ALEX122113.SSF	572081.157	39244
722058.592	4294257.556	8139	21-Dec-13	ALEX122113.SSF	572082.303	39245
722058.618	4294257.44	8365	21-Dec-13	ALEX122113.SSF	572083.0171	39246
722058.564	4294257.436	8271	21-Dec-13	ALEX122113.SSF	572084.2009	39247
722058.529	4294257.591	7917	21-Dec-13	ALEX122113.SSF	572085.144	39248
722058.541	4294257.639	8009	21-Dec-13	ALEX122113.SSF	572086.303	39249
722058.539	4294257.676	6712	21-Dec-13	ALEX122113.SSF	572087.2041	39250
722058.542	4294257.729	6852	21-Dec-13	ALEX122113.SSF	572088.261	39251
722058.498	4294257.802	7833	21-Dec-13	ALEX122113.SSF	572089.1179	39252
722058.207	4294258.091	7628	21-Dec-13	ALEX122113.SSF	572090.2859	39253
722057.856	4294258.42	7697	21-Dec-13	ALEX122113.SSF	572091.105	39254
722057.211	4294259.141	7204	21-Dec-13	ALEX122113.SSF	572092.324	39255
722056.814	4294259.65	9121	21-Dec-13	ALEX122113.SSF	572093.062	39256
722056.014	4294260.416	8700	21-Dec-13	ALEX122113.SSF	572094.3159	39257
722055.527	4294260.881	8175	21-Dec-13	ALEX122113.SSF	572095.1079	39258
722055.25	4294261.506	8883	21-Dec-13	ALEX122113.SSF	572096.281	39259
722055.18	4294261.726	8521	21-Dec-13	ALEX122113.SSF	572097.0649	39260
722055.095	4294261.665	7830	21-Dec-13	ALEX122113.SSF	572098.322	39261
722055.103	4294261.635	7567	21-Dec-13	ALEX122113.SSF	572099.0801	39262
722055.052	4294261.654	9512	21-Dec-13	ALEX122113.SSF	572100.2871	39263
722054.894	4294261.817	8798	21-Dec-13	ALEX122113.SSF	572101.155	39264
722054.491	4294262.318	7659	21-Dec-13	ALEX122113.SSF	572102.2639	39265
722054.023	4294262.891	8635	21-Dec-13	ALEX122113.SSF	572103.1509	39266
722053.431	4294263.52	7918	21-Dec-13	ALEX122113.SSF	572104.156	39267
722052.853	4294263.927	9029	21-Dec-13	ALEX122113.SSF	572105.0061	39268
722052.015	4294264.709	8947	21-Dec-13	ALEX122113.SSF	572106.2859	39269
722051.661	4294265.217	9046	21-Dec-13	ALEX122113.SSF	572106.9839	39270
722051.069	4294266.063	8771	21-Dec-13	ALEX122113.SSF	572108.1589	39271

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722050.657	4294266.544	7863	21-Dec-13	ALEX122113.SSF	572108.9961	39272
722050.075	4294267.27	8385	21-Dec-13	ALEX122113.SSF	572110.0859	39273
722049.597	4294268.019	8906	21-Dec-13	ALEX122113.SSF	572111.0371	39274
722048.926	4294268.745	8316	21-Dec-13	ALEX122113.SSF	572112.1631	39275
722048.284	4294269.215	7959	21-Dec-13	ALEX122113.SSF	572113.1631	39276
722047.74	4294269.75	7179	21-Dec-13	ALEX122113.SSF	572114.094	39277
722047.256	4294270.441	8275	21-Dec-13	ALEX122113.SSF	572115.113	39278
722046.621	4294271.113	7888	21-Dec-13	ALEX122113.SSF	572116.1521	39279
722046.011	4294271.687	7732	21-Dec-13	ALEX122113.SSF	572117.1709	39280
722045.425	4294272.431	8203	21-Dec-13	ALEX122113.SSF	572118.2649	39281
722044.902	4294273.111	8530	21-Dec-13	ALEX122113.SSF	572119.1841	39282
722044.226	4294273.862	7922	21-Dec-13	ALEX122113.SSF	572120.2739	39283
722043.716	4294274.429	8880	21-Dec-13	ALEX122113.SSF	572121.137	39284
722043.188	4294275.079	8310	21-Dec-13	ALEX122113.SSF	572122.1399	39285
722042.579	4294275.712	8257	21-Dec-13	ALEX122113.SSF	572123.1179	39286
722042.053	4294276.372	8514	21-Dec-13	ALEX122113.SSF	572124.2009	39287
722041.708	4294276.984	9328	21-Dec-13	ALEX122113.SSF	572125.157	39288
722041.219	4294277.614	8842	21-Dec-13	ALEX122113.SSF	572126.134	39289
722040.699	4294278.139	8690	21-Dec-13	ALEX122113.SSF	572127.0769	39290
722040.186	4294278.807	8802	21-Dec-13	ALEX122113.SSF	572128.136	39291
722039.743	4294279.483	9130	21-Dec-13	ALEX122113.SSF	572129.0649	39292
722039.118	4294280.176	8252	21-Dec-13	ALEX122113.SSF	572130.272	39293
722038.781	4294280.592	7883	21-Dec-13	ALEX122113.SSF	572131.0171	39294
722038.352	4294281.276	7970	21-Dec-13	ALEX122113.SSF	572132.106	39295
722037.767	4294281.856	8052	21-Dec-13	ALEX122113.SSF	572133.041	39296
722037.186	4294282.485	7713	21-Dec-13	ALEX122113.SSF	572134.2251	39297
722036.892	4294282.976	7898	21-Dec-13	ALEX122113.SSF	572135.0061	39298
722036.217	4294283.822	8214	21-Dec-13	ALEX122113.SSF	572136.231	39299
722035.683	4294284.33	8263	21-Dec-13	ALEX122113.SSF	572137.0581	39300
722034.964	4294285.088	9206	21-Dec-13	ALEX122113.SSF	572138.22	39301
722034.516	4294285.631	9081	21-Dec-13	ALEX122113.SSF	572139.1299	39302
722033.792	4294286.309	9230	21-Dec-13	ALEX122113.SSF	572140.2671	39303
722033.288	4294286.855	9327	21-Dec-13	ALEX122113.SSF	572141.1111	39304
722032.709	4294287.538	8662	21-Dec-13	ALEX122113.SSF	572142.2739	39305
722032.241	4294288.009	10145	21-Dec-13	ALEX122113.SSF	572143.0291	39306
722031.616	4294288.837	9796	21-Dec-13	ALEX122113.SSF	572144.2681	39307
722031.259	4294289.405	9679	21-Dec-13	ALEX122113.SSF	572145.0879	39308
722030.653	4294290.217	9409	21-Dec-13	ALEX122113.SSF	572146.2339	39309
722030.273	4294290.729	9042	21-Dec-13	ALEX122113.SSF	572147.073	39310
722029.675	4294291.518	9670	21-Dec-13	ALEX122113.SSF	572148.2549	39311
722029.227	4294292.084	9797	21-Dec-13	ALEX122113.SSF	572149.0129	39312
722028.648	4294292.829	9439	21-Dec-13	ALEX122113.SSF	572150.198	39313
722028.306	4294293.434	9409	21-Dec-13	ALEX122113.SSF	572151.0701	39314
722027.807	4294294.26	8022	21-Dec-13	ALEX122113.SSF	572152.325	39315
722027.401	4294294.688	7615	21-Dec-13	ALEX122113.SSF	572153.0669	39316
722026.718	4294295.435	9374	21-Dec-13	ALEX122113.SSF	572154.219	39317
722026.3	4294295.967	8463	21-Dec-13	ALEX122113.SSF	572155.085	39318

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722025.483	4294296.72	9015	21-Dec-13	ALEX122113.SSF	572156.283	39319
722024.97	4294297.249	7983	21-Dec-13	ALEX122113.SSF	572157.05	39320
722024.293	4294298.018	9346	21-Dec-13	ALEX122113.SSF	572158.2991	39321
722023.81	4294298.328	9296	21-Dec-13	ALEX122113.SSF	572159.0449	39322
722023.213	4294298.913	8444	21-Dec-13	ALEX122113.SSF	572160.2959	39323
722022.898	4294299.385	8291	21-Dec-13	ALEX122113.SSF	572161.0291	39324
722022.474	4294300.173	9902	21-Dec-13	ALEX122113.SSF	572162.271	39325
722022.269	4294300.683	9045	21-Dec-13	ALEX122113.SSF	572163.0349	39326
722021.8	4294301.411	9281	21-Dec-13	ALEX122113.SSF	572164.1121	39327
722021.26	4294301.994	8620	21-Dec-13	ALEX122113.SSF	572165.1011	39328
722020.641	4294302.801	7915	21-Dec-13	ALEX122113.SSF	572166.2759	39329
722020.223	4294303.534	8848	21-Dec-13	ALEX122113.SSF	572167.179	39330
722019.64	4294304.285	8962	21-Dec-13	ALEX122113.SSF	572168.2141	39331
722019.163	4294304.792	8660	21-Dec-13	ALEX122113.SSF	572169.0581	39332
722018.585	4294305.689	8585	21-Dec-13	ALEX122113.SSF	572170.2759	39333
722018.104	4294306.338	9766	21-Dec-13	ALEX122113.SSF	572171.1379	39334
722017.545	4294306.939	8621	21-Dec-13	ALEX122113.SSF	572172.1011	39335
722016.972	4294307.605	8455	21-Dec-13	ALEX122113.SSF	572173.1499	39336
722016.446	4294308.235	8864	21-Dec-13	ALEX122113.SSF	572174.1211	39337
722015.755	4294308.865	9656	21-Dec-13	ALEX122113.SSF	572175.0779	39338
722015.143	4294309.529	9854	21-Dec-13	ALEX122113.SSF	572176.0991	39339
722014.71	4294310.217	7953	21-Dec-13	ALEX122113.SSF	572177.0381	39340
722014.16	4294311.048	8708	21-Dec-13	ALEX122113.SSF	572178.27	39341
722013.72	4294311.577	8207	21-Dec-13	ALEX122113.SSF	572179.1489	39342
722013.129	4294312.345	9371	21-Dec-13	ALEX122113.SSF	572180.2791	39343
722012.703	4294312.922	8643	21-Dec-13	ALEX122113.SSF	572181.125	39344
722011.983	4294313.612	8340	21-Dec-13	ALEX122113.SSF	572182.2529	39345
722011.519	4294314.09	9435	21-Dec-13	ALEX122113.SSF	572183.124	39346
722011.072	4294314.662	8208	21-Dec-13	ALEX122113.SSF	572184.1479	39347
722010.515	4294315.25	8112	21-Dec-13	ALEX122113.SSF	572185.0701	39348
722009.869	4294315.803	9678	21-Dec-13	ALEX122113.SSF	572186.2241	39349
722009.324	4294315.957	9199	21-Dec-13	ALEX122113.SSF	572187.137	39350
722008.763	4294315.719	8089	21-Dec-13	ALEX122113.SSF	572188.178	39351
722008.776	4294315.38	8892	21-Dec-13	ALEX122113.SSF	572189.228	39352
722008.985	4294315.113	9933	21-Dec-13	ALEX122113.SSF	572190.259	39353
722009.231	4294314.856	8933	21-Dec-13	ALEX122113.SSF	572191.073	39354
722009.629	4294314.341	8863	21-Dec-13	ALEX122113.SSF	572192.3149	39355
722009.91	4294313.92	8336	21-Dec-13	ALEX122113.SSF	572193.1121	39356
722010.397	4294313.256	8174	21-Dec-13	ALEX122113.SSF	572194.1851	39357
722010.868	4294312.73	8763	21-Dec-13	ALEX122113.SSF	572195.1421	39358
722011.334	4294312.18	8340	21-Dec-13	ALEX122113.SSF	572196.095	39359
722011.888	4294311.56	8625	21-Dec-13	ALEX122113.SSF	572197.062	39360
722012.52	4294310.886	8186	21-Dec-13	ALEX122113.SSF	572198.2729	39361
722012.92	4294310.282	8826	21-Dec-13	ALEX122113.SSF	572199.105	39362
722013.469	4294309.366	10066	21-Dec-13	ALEX122113.SSF	572200.2661	39363
722013.968	4294308.782	10106	21-Dec-13	ALEX122113.SSF	572201.1121	39364
722014.697	4294307.978	10656	21-Dec-13	ALEX122113.SSF	572202.2791	39365

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722015.123	4294307.412	9054	21-Dec-13	ALEX122113.SSF	572203.1079	39366
722015.849	4294306.509	8353	21-Dec-13	ALEX122113.SSF	572204.2971	39367
722016.354	4294305.946	9078	21-Dec-13	ALEX122113.SSF	572205.1201	39368
722017.003	4294305.111	9439	21-Dec-13	ALEX122113.SSF	572206.2439	39369
722017.453	4294304.439	9559	21-Dec-13	ALEX122113.SSF	572207.093	39370
722018.071	4294303.641	8570	21-Dec-13	ALEX122113.SSF	572208.252	39371
722018.527	4294303.093	8742	21-Dec-13	ALEX122113.SSF	572209.1011	39372
722019.018	4294302.439	8965	21-Dec-13	ALEX122113.SSF	572210.062	39373
722019.578	4294301.623	9141	21-Dec-13	ALEX122113.SSF	572211.043	39374
722020.227	4294300.849	8465	21-Dec-13	ALEX122113.SSF	572212.0859	39375
722020.863	4294300.112	9436	21-Dec-13	ALEX122113.SSF	572213.103	39376
722021.41	4294299.444	9019	21-Dec-13	ALEX122113.SSF	572214.1831	39377
722021.9	4294298.96	9934	21-Dec-13	ALEX122113.SSF	572215.0281	39378
722022.915	4294297.684	9073	21-Dec-13	ALEX122113.SSF	572217.0681	39380
722023.549	4294297.018	7638	21-Dec-13	ALEX122113.SSF	572218.241	39381
722023.913	4294296.642	8689	21-Dec-13	ALEX122113.SSF	572219.0081	39382
722024.416	4294295.76	8382	21-Dec-13	ALEX122113.SSF	572220.2329	39383
722024.768	4294295.121	8815	21-Dec-13	ALEX122113.SSF	572221.084	39384
722025.333	4294294.388	9584	21-Dec-13	ALEX122113.SSF	572222.2151	39385
722025.81	4294293.702	9266	21-Dec-13	ALEX122113.SSF	572223.084	39386
722026.498	4294292.72	9246	21-Dec-13	ALEX122113.SSF	572224.251	39387
722027.027	4294292.164	8941	21-Dec-13	ALEX122113.SSF	572225.0601	39388
722027.792	4294291.465	9135	21-Dec-13	ALEX122113.SSF	572226.1331	39389
722028.326	4294290.875	8403	21-Dec-13	ALEX122113.SSF	572227.1021	39390
722028.921	4294290.146	8611	21-Dec-13	ALEX122113.SSF	572228.1809	39391
722029.393	4294289.534	9202	21-Dec-13	ALEX122113.SSF	572229.158	39392
722029.744	4294288.937	9800	21-Dec-13	ALEX122113.SSF	572230.0649	39393
722030.247	4294288.254	9620	21-Dec-13	ALEX122113.SSF	572231.042	39394
722030.877	4294287.628	9215	21-Dec-13	ALEX122113.SSF	572232.1411	39395
722031.328	4294286.972	8753	21-Dec-13	ALEX122113.SSF	572233.03	39396
722032.182	4294285.913	8668	21-Dec-13	ALEX122113.SSF	572234.175	39397
722032.863	4294285.274	9007	21-Dec-13	ALEX122113.SSF	572235.1079	39398
722033.418	4294284.704	9901	21-Dec-13	ALEX122113.SSF	572236.2991	39399
722033.827	4294284.242	9225	21-Dec-13	ALEX122113.SSF	572237.1079	39400
722034.522	4294283.446	8966	21-Dec-13	ALEX122113.SSF	572238.0759	39401
722035.038	4294282.811	7461	21-Dec-13	ALEX122113.SSF	572239.1289	39402
722035.48	4294282.14	7955	21-Dec-13	ALEX122113.SSF	572240.125	39403
722035.978	4294281.443	8018	21-Dec-13	ALEX122113.SSF	572241.011	39404
722036.71	4294280.698	7824	21-Dec-13	ALEX122113.SSF	572242.0879	39405
722037.34	4294280.009	7356	21-Dec-13	ALEX122113.SSF	572243.0259	39406
722037.949	4294279.144	6969	21-Dec-13	ALEX122113.SSF	572244.2329	39407
722038.572	4294278.424	7622	21-Dec-13	ALEX122113.SSF	572245.156	39408
722039.208	4294277.713	8355	21-Dec-13	ALEX122113.SSF	572246.24	39409
722039.783	4294277.056	7998	21-Dec-13	ALEX122113.SSF	572247.209	39410
722040.372	4294276.389	7879	21-Dec-13	ALEX122113.SSF	572248.1699	39411
722040.97	4294275.832	8270	21-Dec-13	ALEX122113.SSF	572249.042	39412
722041.702	4294275.165	9087	21-Dec-13	ALEX122113.SSF	572250.187	39413

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722042.067	4294274.698	8392	21-Dec-13	ALEX122113.SSF	572250.9851	39414
722042.697	4294273.832	8548	21-Dec-13	ALEX122113.SSF	572252.2429	39415
722043.141	4294273.296	8647	21-Dec-13	ALEX122113.SSF	572253.053	39416
722043.834	4294272.551	7951	21-Dec-13	ALEX122113.SSF	572254.177	39417
722044.431	4294271.884	10447	21-Dec-13	ALEX122113.SSF	572255.0439	39418
722045.067	4294271.201	8162	21-Dec-13	ALEX122113.SSF	572256.115	39419
722045.541	4294270.623	7920	21-Dec-13	ALEX122113.SSF	572256.988	39420
722046.297	4294269.567	8400	21-Dec-13	ALEX122113.SSF	572258.2	39421
722046.791	4294268.972	7710	21-Dec-13	ALEX122113.SSF	572258.9729	39422
722047.59	4294268.211	8887	21-Dec-13	ALEX122113.SSF	572260.1841	39423
722048.071	4294267.701	8012	21-Dec-13	ALEX122113.SSF	572261.063	39424
722048.673	4294267.033	7793	21-Dec-13	ALEX122113.SSF	572262.0779	39425
722049.197	4294266.406	8878	21-Dec-13	ALEX122113.SSF	572263.0381	39426
722049.794	4294265.502	8939	21-Dec-13	ALEX122113.SSF	572264.282	39427
722050.311	4294264.865	8625	21-Dec-13	ALEX122113.SSF	572265.1951	39428
722050.805	4294264.398	8636	21-Dec-13	ALEX122113.SSF	572266.094	39429
722051.324	4294263.885	9029	21-Dec-13	ALEX122113.SSF	572267.0691	39430
722051.851	4294263.112	9487	21-Dec-13	ALEX122113.SSF	572268.1599	39431
722052.419	4294262.317	7801	21-Dec-13	ALEX122113.SSF	572269.0281	39432
722053.355	4294261.315	7470	21-Dec-13	ALEX122113.SSF	572270.209	39433
722053.939	4294260.648	7057	21-Dec-13	ALEX122113.SSF	572271.0449	39434
722054.668	4294259.903	6294	21-Dec-13	ALEX122113.SSF	572272.1899	39435
722055.215	4294259.486	6373	21-Dec-13	ALEX122113.SSF	572273.021	39436
722055.93	4294258.776	6183	21-Dec-13	ALEX122113.SSF	572274.02	39437
722056.633	4294258.017	6645	21-Dec-13	ALEX122113.SSF	572275.0869	39438
722057.289	4294257.425	7511	21-Dec-13	ALEX122113.SSF	572276.0801	39439
722057.853	4294256.914	7728	21-Dec-13	ALEX122113.SSF	572277.075	39440
722058.19	4294256.431	7722	21-Dec-13	ALEX122113.SSF	572278.0959	39441
722058.431	4294256.079	7390	21-Dec-13	ALEX122113.SSF	572279.0901	39442
722058.681	4294255.947	8267	21-Dec-13	ALEX122113.SSF	572280.1431	39443
722058.797	4294255.914	8036	21-Dec-13	ALEX122113.SSF	572281.0559	39444
722058.651	4294255.707	7319	21-Dec-13	ALEX122113.SSF	572282.1421	39445
722058.529	4294255.427	7950	21-Dec-13	ALEX122113.SSF	572283.0549	39446
722058.248	4294254.91	6487	21-Dec-13	ALEX122113.SSF	572284.2229	39447
722057.962	4294254.459	6301	21-Dec-13	ALEX122113.SSF	572285.1079	39448
722057.7	4294253.974	6225	21-Dec-13	ALEX122113.SSF	572286.1721	39449
722057.642	4294253.962	6656	21-Dec-13	ALEX122113.SSF	572287.0801	39450
722057.415	4294254.012	6884	21-Dec-13	ALEX122113.SSF	572288.075	39451
722057.228	4294253.934	6461	21-Dec-13	ALEX122113.SSF	572289.0271	39452
722057.122	4294253.935	6475	21-Dec-13	ALEX122113.SSF	572290.092	39453
722057.141	4294253.878	6298	21-Dec-13	ALEX122113.SSF	572291.0601	39454
722057.172	4294253.886	5774	21-Dec-13	ALEX122113.SSF	572292.1489	39455
722057.176	4294253.912	7610	21-Dec-13	ALEX122113.SSF	572293.0149	39456
722057.157	4294253.893	6882	21-Dec-13	ALEX122113.SSF	572294.1221	39457
722057.109	4294253.866	7150	21-Dec-13	ALEX122113.SSF	572295.0601	39458
722057.022	4294253.826	6797	21-Dec-13	ALEX122113.SSF	572296.0449	39459
722056.939	4294253.866	6469	21-Dec-13	ALEX122113.SSF	572297.041	39460

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722056.862	4294254.079	7527	21-Dec-13	ALEX122113.SSF	572298.064	39461
722056.781	4294254.297	6652	21-Dec-13	ALEX122113.SSF	572298.968	39462
722056.398	4294254.733	7033	21-Dec-13	ALEX122113.SSF	572300.062	39463
722055.879	4294255.259	6267	21-Dec-13	ALEX122113.SSF	572301.0039	39464
722055.308	4294255.731	7537	21-Dec-13	ALEX122113.SSF	572302.0391	39465
722054.875	4294256.226	6384	21-Dec-13	ALEX122113.SSF	572302.9861	39466
722054.395	4294256.901	6039	21-Dec-13	ALEX122113.SSF	572304.019	39467
722053.874	4294257.324	6554	21-Dec-13	ALEX122113.SSF	572304.9839	39468
722053.283	4294257.875	6618	21-Dec-13	ALEX122113.SSF	572306.123	39469
722052.943	4294258.46	6334	21-Dec-13	ALEX122113.SSF	572307.0129	39470
722052.471	4294259.012	6743	21-Dec-13	ALEX122113.SSF	572308.009	39471
722051.95	4294259.538	7086	21-Dec-13	ALEX122113.SSF	572308.946	39472
722051.404	4294260.259	7771	21-Dec-13	ALEX122113.SSF	572310.1379	39473
722050.885	4294260.718	6922	21-Dec-13	ALEX122113.SSF	572311.0291	39474
722050.267	4294261.28	6710	21-Dec-13	ALEX122113.SSF	572312.158	39475
722049.93	4294261.689	6957	21-Dec-13	ALEX122113.SSF	572313.031	39476
722049.3	4294262.216	7739	21-Dec-13	ALEX122113.SSF	572314.0659	39477
722048.705	4294262.841	7485	21-Dec-13	ALEX122113.SSF	572315.1831	39478
722048.33	4294263.447	8771	21-Dec-13	ALEX122113.SSF	572316.1311	39479
722047.781	4294264.081	6662	21-Dec-13	ALEX122113.SSF	572317.1011	39480
722047.228	4294264.639	6855	21-Dec-13	ALEX122113.SSF	572318.105	39481
722046.805	4294265.22	6423	21-Dec-13	ALEX122113.SSF	572319.093	39482
722046.263	4294265.914	8866	21-Dec-13	ALEX122113.SSF	572320.2009	39483
722045.881	4294266.376	8816	21-Dec-13	ALEX122113.SSF	572321.063	39484
722045.504	4294267.006	7214	21-Dec-13	ALEX122113.SSF	572322.083	39485
722044.976	4294267.688	8313	21-Dec-13	ALEX122113.SSF	572323.1599	39486
722044.457	4294268.087	8168	21-Dec-13	ALEX122113.SSF	572324.0271	39487
722043.861	4294268.647	7652	21-Dec-13	ALEX122113.SSF	572325.011	39488
722043.368	4294269.423	8003	21-Dec-13	ALEX122113.SSF	572326.134	39489
722042.895	4294269.891	6350	21-Dec-13	ALEX122113.SSF	572326.9709	39490
722042.283	4294270.525	6507	21-Dec-13	ALEX122113.SSF	572328.0879	39491
722041.96	4294271.031	7747	21-Dec-13	ALEX122113.SSF	572328.9221	39492
722041.303	4294271.705	7576	21-Dec-13	ALEX122113.SSF	572330.147	39493
722040.931	4294272.131	8434	21-Dec-13	ALEX122113.SSF	572331.01	39494
722040.782	4294272.569	7118	21-Dec-13	ALEX122113.SSF	572332.168	39495
722040.724	4294272.751	7449	21-Dec-13	ALEX122113.SSF	572333.1179	39496
722040.635	4294272.74	8372	21-Dec-13	ALEX122113.SSF	572334.2019	39497
722040.566	4294272.711	7463	21-Dec-13	ALEX122113.SSF	572335.0991	39498
722040.438	4294272.782	7205	21-Dec-13	ALEX122113.SSF	572336.2219	39499
722040.312	4294273.009	6301	21-Dec-13	ALEX122113.SSF	572337.0391	39500
722040.045	4294273.505	7875	21-Dec-13	ALEX122113.SSF	572338.1699	39501
722039.714	4294273.905	7638	21-Dec-13	ALEX122113.SSF	572339.114	39502
722039.274	4294274.509	8149	21-Dec-13	ALEX122113.SSF	572340.1521	39503
722038.869	4294275.037	7587	21-Dec-13	ALEX122113.SSF	572341.0969	39504
722038.443	4294275.362	7597	21-Dec-13	ALEX122113.SSF	572342.0959	39505
722038.277	4294275.522	6699	21-Dec-13	ALEX122113.SSF	572342.998	39506
722038.356	4294275.571	7824	21-Dec-13	ALEX122113.SSF	572344.1479	39507

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722038.374	4294275.587	8526	21-Dec-13	ALEX122113.SSF	572345.1021	39508
722038.352	4294275.526	7861	21-Dec-13	ALEX122113.SSF	572346.114	39509
722038.363	4294275.6	7755	21-Dec-13	ALEX122113.SSF	572347.104	39510
722038.376	4294275.733	7038	21-Dec-13	ALEX122113.SSF	572348.116	39511
722038.215	4294275.734	8089	21-Dec-13	ALEX122113.SSF	572349.0991	39512
722038.141	4294275.845	8502	21-Dec-13	ALEX122113.SSF	572350.1069	39513
722038.156	4294275.902	6715	21-Dec-13	ALEX122113.SSF	572350.9709	39514
722038.077	4294275.836	7649	21-Dec-13	ALEX122113.SSF	572352.105	39515
722038.11	4294275.856	6682	21-Dec-13	ALEX122113.SSF	572353.0161	39516
722038.041	4294275.887	7070	21-Dec-13	ALEX122113.SSF	572354.1069	39517
722038.031	4294275.862	7347	21-Dec-13	ALEX122113.SSF	572354.998	39518
722038.13	4294275.911	8587	21-Dec-13	ALEX122113.SSF	572356.064	39519
722038.126	4294275.945	7833	21-Dec-13	ALEX122113.SSF	572357.0371	39520
722038.139	4294275.983	7339	21-Dec-13	ALEX122113.SSF	572358.1411	39521
722038.172	4294275.994	7084	21-Dec-13	ALEX122113.SSF	572359.1079	39522
722038.18	4294276.009	7591	21-Dec-13	ALEX122113.SSF	572360.1499	39523
722038.178	4294275.997	7935	21-Dec-13	ALEX122113.SSF	572361.0291	39524
722038.162	4294275.934	8297	21-Dec-13	ALEX122113.SSF	572362.1399	39525
722038.152	4294275.934	7684	21-Dec-13	ALEX122113.SSF	572363.02	39526
722038.166	4294275.992	7111	21-Dec-13	ALEX122113.SSF	572364.1211	39527
722038.141	4294275.941	7267	21-Dec-13	ALEX122113.SSF	572365.1831	39528
722038.046	4294275.782	7757	21-Dec-13	ALEX122113.SSF	572366.2029	39529
722038.046	4294275.787	8239	21-Dec-13	ALEX122113.SSF	572367.0701	39530
722038.045	4294276.091	8089	21-Dec-13	ALEX122113.SSF	572368.082	39531
722037.772	4294276.384	7482	21-Dec-13	ALEX122113.SSF	572369.03	39532
722037.202	4294276.996	7360	21-Dec-13	ALEX122113.SSF	572370.0649	39533
722036.735	4294277.617	7160	21-Dec-13	ALEX122113.SSF	572370.9209	39534
722035.974	4294278.382	7420	21-Dec-13	ALEX122113.SSF	572372.219	39535
722035.588	4294278.758	7225	21-Dec-13	ALEX122113.SSF	572372.9199	39536
722035.26	4294279.108	7386	21-Dec-13	ALEX122113.SSF	572374.02	39537
722035.253	4294279.322	6946	21-Dec-13	ALEX122113.SSF	572375.062	39538
722035.471	4294279.523	6416	21-Dec-13	ALEX122113.SSF	572376.167	39539
722035.651	4294279.648	7394	21-Dec-13	ALEX122113.SSF	572377.0381	39540
722035.745	4294279.721	7728	21-Dec-13	ALEX122113.SSF	572378.0991	39541
722035.718	4294279.721	7962	21-Dec-13	ALEX122113.SSF	572378.95	39542
722035.637	4294279.716	6280	21-Dec-13	ALEX122113.SSF	572380.0911	39543
722035.563	4294279.783	6430	21-Dec-13	ALEX122113.SSF	572380.9871	39544
722035.521	4294279.845	7697	21-Dec-13	ALEX122113.SSF	572382.104	39545
722035.508	4294279.89	6454	21-Dec-13	ALEX122113.SSF	572383.105	39546
722035.481	4294279.931	6743	21-Dec-13	ALEX122113.SSF	572384.187	39547
722035.408	4294279.959	6786	21-Dec-13	ALEX122113.SSF	572384.9871	39548
722035.305	4294279.982	8266	21-Dec-13	ALEX122113.SSF	572386.1819	39549
722035.174	4294279.965	8186	21-Dec-13	ALEX122113.SSF	572387.073	39550
722034.872	4294280.15	7716	21-Dec-13	ALEX122113.SSF	572388.136	39551
722034.498	4294280.591	7449	21-Dec-13	ALEX122113.SSF	572389.01	39552
722034	4294280.998	7742	21-Dec-13	ALEX122113.SSF	572390.0769	39553
722033.592	4294281.42	7845	21-Dec-13	ALEX122113.SSF	572391.0359	39554

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722033.246	4294281.854	7421	21-Dec-13	ALEX122113.SSF	572392.0439	39555
722033.143	4294281.933	7135	21-Dec-13	ALEX122113.SSF	572392.989	39556
722033.164	4294281.828	6614	21-Dec-13	ALEX122113.SSF	572394.093	39557
722033.19	4294281.771	8343	21-Dec-13	ALEX122113.SSF	572394.99	39558
722033.198	4294281.741	8055	21-Dec-13	ALEX122113.SSF	572396.146	39559
722033.174	4294281.753	8253	21-Dec-13	ALEX122113.SSF	572397.0291	39560
722033.209	4294281.799	7733	21-Dec-13	ALEX122113.SSF	572398.061	39561
722033.001	4294282.016	7783	21-Dec-13	ALEX122113.SSF	572399.0239	39562
722032.31	4294282.356	7826	21-Dec-13	ALEX122113.SSF	572400.134	39563
722031.787	4294282.787	8616	21-Dec-13	ALEX122113.SSF	572401.1021	39564
722031.48	4294283.413	8034	21-Dec-13	ALEX122113.SSF	572402.1399	39565
722031.052	4294283.937	8278	21-Dec-13	ALEX122113.SSF	572403.1431	39566
722030.797	4294284.14	8729	21-Dec-13	ALEX122113.SSF	572404.2339	39567
722030.856	4294284.097	8092	21-Dec-13	ALEX122113.SSF	572405.085	39568
722030.887	4294284.045	8413	21-Dec-13	ALEX122113.SSF	572406.158	39569
722030.9	4294284.04	8463	21-Dec-13	ALEX122113.SSF	572407.033	39570
722030.874	4294284.101	7335	21-Dec-13	ALEX122113.SSF	572408.1169	39571
722030.621	4294284.311	8433	21-Dec-13	ALEX122113.SSF	572409.032	39572
722030.163	4294284.781	7598	21-Dec-13	ALEX122113.SSF	572410.0891	39573
722029.816	4294285.243	7509	21-Dec-13	ALEX122113.SSF	572410.9871	39574
722029.205	4294285.723	7997	21-Dec-13	ALEX122113.SSF	572411.9971	39575
722028.655	4294286.182	8059	21-Dec-13	ALEX122113.SSF	572413.001	39576
722028.197	4294286.805	8284	21-Dec-13	ALEX122113.SSF	572414.0081	39577
722027.666	4294287.538	8761	21-Dec-13	ALEX122113.SSF	572415.001	39578
722027.174	4294288.025	7770	21-Dec-13	ALEX122113.SSF	572416.1069	39579
722027.05	4294288.098	8872	21-Dec-13	ALEX122113.SSF	572416.8979	39580
722027.106	4294288.102	7528	21-Dec-13	ALEX122113.SSF	572417.9961	39581
722027.14	4294288.083	7972	21-Dec-13	ALEX122113.SSF	572418.925	39582
722027.134	4294288.012	8683	21-Dec-13	ALEX122113.SSF	572420.1201	39583
722027.222	4294288.026	8980	21-Dec-13	ALEX122113.SSF	572420.9719	39584
722027.336	4294288.045	8305	21-Dec-13	ALEX122113.SSF	572422.1169	39585
722027.336	4294288.02	8256	21-Dec-13	ALEX122113.SSF	572422.97	39586
722027.331	4294288.054	8304	21-Dec-13	ALEX122113.SSF	572424.1101	39587
722027.34	4294288.116	7986	21-Dec-13	ALEX122113.SSF	572425.0901	39588
722027.359	4294288.113	7726	21-Dec-13	ALEX122113.SSF	572426.042	39589
722027.286	4294288.091	7901	21-Dec-13	ALEX122113.SSF	572426.9551	39590
722027.257	4294288.1	7705	21-Dec-13	ALEX122113.SSF	572428.2529	39591
722027.225	4294288.031	8646	21-Dec-13	ALEX122113.SSF	572428.9751	39592
722027.035	4294287.954	8881	21-Dec-13	ALEX122113.SSF	572430.155	39593
722027.019	4294287.957	8490	21-Dec-13	ALEX122113.SSF	572430.937	39594
722027.066	4294288	9352	21-Dec-13	ALEX122113.SSF	572432.0869	39595
722027.128	4294288.035	8608	21-Dec-13	ALEX122113.SSF	572432.9231	39596
722027.04	4294288.142	7702	21-Dec-13	ALEX122113.SSF	572434.0591	39597
722026.631	4294288.619	8225	21-Dec-13	ALEX122113.SSF	572435.0959	39598
722025.996	4294289.358	8746	21-Dec-13	ALEX122113.SSF	572436.0569	39599
722025.366	4294290.016	9386	21-Dec-13	ALEX122113.SSF	572436.958	39600
722024.827	4294290.855	9006	21-Dec-13	ALEX122113.SSF	572438.094	39601

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722024.526	4294291.707	8851	21-Dec-13	ALEX122113.SSF	572439.0659	39602
722024.064	4294292.44	7972	21-Dec-13	ALEX122113.SSF	572440.0569	39603
722023.48	4294292.965	8713	21-Dec-13	ALEX122113.SSF	572440.8621	39604
722022.732	4294293.726	9978	21-Dec-13	ALEX122113.SSF	572442.01	39605
722022.28	4294294.36	9394	21-Dec-13	ALEX122113.SSF	572442.9209	39606
722021.659	4294295.133	9128	21-Dec-13	ALEX122113.SSF	572443.9199	39607
722020.951	4294296.001	8582	21-Dec-13	ALEX122113.SSF	572445.1021	39608
722020.394	4294296.819	8715	21-Dec-13	ALEX122113.SSF	572446.188	39609
722020.018	4294297.421	9528	21-Dec-13	ALEX122113.SSF	572446.9241	39610
722019.269	4294298.179	9402	21-Dec-13	ALEX122113.SSF	572447.9971	39611
722018.467	4294298.766	9340	21-Dec-13	ALEX122113.SSF	572449.1179	39612
722017.934	4294299.411	9175	21-Dec-13	ALEX122113.SSF	572450.0491	39613
722017.468	4294300.123	8803	21-Dec-13	ALEX122113.SSF	572450.928	39614
722016.871	4294300.97	9221	21-Dec-13	ALEX122113.SSF	572452.1101	39615
722016.339	4294301.701	8725	21-Dec-13	ALEX122113.SSF	572453.0569	39616
722015.765	4294302.408	9291	21-Dec-13	ALEX122113.SSF	572454.0569	39617
722015.24	4294302.927	9192	21-Dec-13	ALEX122113.SSF	572454.9299	39618
722014.665	4294303.646	8958	21-Dec-13	ALEX122113.SSF	572456.0281	39619
722014.153	4294304.251	9649	21-Dec-13	ALEX122113.SSF	572456.979	39620
722013.266	4294304.949	8802	21-Dec-13	ALEX122113.SSF	572458.103	39621
722012.702	4294305.464	9400	21-Dec-13	ALEX122113.SSF	572458.9629	39622
722012.279	4294306.201	9790	21-Dec-13	ALEX122113.SSF	572460.0959	39623
722011.934	4294306.936	8837	21-Dec-13	ALEX122113.SSF	572460.991	39624
722011.35	4294307.722	8539	21-Dec-13	ALEX122113.SSF	572462.042	39625
722010.9	4294308.287	8164	21-Dec-13	ALEX122113.SSF	572462.9939	39626
722010.364	4294309.125	8101	21-Dec-13	ALEX122113.SSF	572464.1189	39627
722009.875	4294309.865	6945	21-Dec-13	ALEX122113.SSF	572464.9939	39628
722009.332	4294310.618	8696	21-Dec-13	ALEX122113.SSF	572466.127	39629
722008.985	4294311.066	8264	21-Dec-13	ALEX122113.SSF	572466.8779	39630
722008.392	4294311.771	8516	21-Dec-13	ALEX122113.SSF	572468.0161	39631
722007.8	4294312.285	7709	21-Dec-13	ALEX122113.SSF	572468.9751	39632
722007.233	4294312.548	8347	21-Dec-13	ALEX122113.SSF	572470.032	39633
722006.968	4294312.953	8896	21-Dec-13	ALEX122113.SSF	572470.895	39634
722006.542	4294313.614	7954	21-Dec-13	ALEX122113.SSF	572472.0811	39635
722006.25	4294313.542	9038	21-Dec-13	ALEX122113.SSF	572472.9209	39636
722006.23	4294313.067	8979	21-Dec-13	ALEX122113.SSF	572474.0649	39637
722006.228	4294312.945	8305	21-Dec-13	ALEX122113.SSF	572474.9561	39638
722006.186	4294312.917	8436	21-Dec-13	ALEX122113.SSF	572476.0291	39639
722006.111	4294312.962	8649	21-Dec-13	ALEX122113.SSF	572476.9771	39640
722006.084	4294312.967	8072	21-Dec-13	ALEX122113.SSF	572478.115	39641
722006.375	4294312.707	7996	21-Dec-13	ALEX122113.SSF	572478.9919	39642
722006.822	4294312.122	9189	21-Dec-13	ALEX122113.SSF	572480.1689	39643
722007.038	4294311.687	8267	21-Dec-13	ALEX122113.SSF	572480.9609	39644
722007.63	4294310.844	8936	21-Dec-13	ALEX122113.SSF	572482.114	39645
722008.085	4294310.271	8834	21-Dec-13	ALEX122113.SSF	572483.0061	39646
722008.418	4294309.65	8808	21-Dec-13	ALEX122113.SSF	572484.0339	39647
722008.837	4294309.082	7872	21-Dec-13	ALEX122113.SSF	572484.9939	39648

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722009.293	4294308.649	9348	21-Dec-13	ALEX122113.SSF	572486.0471	39649
722009.663	4294308.36	8247	21-Dec-13	ALEX122113.SSF	572486.9099	39650
722009.807	4294308.2	8961	21-Dec-13	ALEX122113.SSF	572488.0171	39651
722009.856	4294308.148	8270	21-Dec-13	ALEX122113.SSF	572488.9519	39652
722009.869	4294308.241	8697	21-Dec-13	ALEX122113.SSF	572490.094	39653
722009.806	4294308.389	8534	21-Dec-13	ALEX122113.SSF	572490.979	39654
722009.91	4294308.401	9213	21-Dec-13	ALEX122113.SSF	572492.0259	39655
722010.006	4294308.316	8573	21-Dec-13	ALEX122113.SSF	572492.9829	39656
722010.082	4294308.196	8743	21-Dec-13	ALEX122113.SSF	572494.1069	39657
722010.38	4294307.812	8756	21-Dec-13	ALEX122113.SSF	572494.9751	39658
722010.971	4294307.248	7769	21-Dec-13	ALEX122113.SSF	572496.1021	39659
722011.362	4294306.797	7942	21-Dec-13	ALEX122113.SSF	572496.9519	39660
722011.806	4294306.061	8135	21-Dec-13	ALEX122113.SSF	572498.114	39661
722012.148	4294305.637	8363	21-Dec-13	ALEX122113.SSF	572499.0171	39662
722012.61	4294304.969	8871	21-Dec-13	ALEX122113.SSF	572500.062	39663
722013	4294304.344	9117	21-Dec-13	ALEX122113.SSF	572500.9741	39664
722013.633	4294303.663	8489	21-Dec-13	ALEX122113.SSF	572501.946	39665
722014.213	4294302.967	8392	21-Dec-13	ALEX122113.SSF	572502.9099	39666
722014.708	4294302.286	8548	21-Dec-13	ALEX122113.SSF	572503.9939	39667
722015.276	4294301.646	8257	21-Dec-13	ALEX122113.SSF	572504.9341	39668
722016.022	4294300.815	8874	21-Dec-13	ALEX122113.SSF	572506.01	39669
722016.525	4294300.126	9538	21-Dec-13	ALEX122113.SSF	572506.9661	39670
722017.155	4294299.346	9044	21-Dec-13	ALEX122113.SSF	572508.002	39671
722017.655	4294298.723	9281	21-Dec-13	ALEX122113.SSF	572508.9771	39672
722018.221	4294297.966	9130	21-Dec-13	ALEX122113.SSF	572510.104	39673
722018.784	4294297.25	9452	21-Dec-13	ALEX122113.SSF	572511.0991	39674
722019.407	4294296.558	8603	21-Dec-13	ALEX122113.SSF	572512.0559	39675
722019.864	4294295.894	8270	21-Dec-13	ALEX122113.SSF	572512.9431	39676
722020.334	4294295.055	8217	21-Dec-13	ALEX122113.SSF	572514.061	39677
722020.879	4294294.432	8534	21-Dec-13	ALEX122113.SSF	572514.9441	39678
722021.63	4294293.711	8613	21-Dec-13	ALEX122113.SSF	572515.9651	39679
722022.128	4294293.022	8753	21-Dec-13	ALEX122113.SSF	572516.874	39680
722022.889	4294292.112	7318	21-Dec-13	ALEX122113.SSF	572518.012	39681
722023.537	4294291.529	7619	21-Dec-13	ALEX122113.SSF	572518.948	39682
722024.334	4294290.614	6435	21-Dec-13	ALEX122113.SSF	572520.1421	39683
722024.815	4294289.803	6978	21-Dec-13	ALEX122113.SSF	572521.02	39684
722025.459	4294288.889	6184	21-Dec-13	ALEX122113.SSF	572522.062	39685
722026.028	4294288.269	6946	21-Dec-13	ALEX122113.SSF	572523.011	39686
722026.482	4294287.587	7016	21-Dec-13	ALEX122113.SSF	572523.99	39687
722027.061	4294286.864	6434	21-Dec-13	ALEX122113.SSF	572524.9331	39688
722027.706	4294286.34	7308	21-Dec-13	ALEX122113.SSF	572525.937	39689
722028.3	4294285.814	7167	21-Dec-13	ALEX122113.SSF	572526.8491	39690
722029.001	4294284.876	7071	21-Dec-13	ALEX122113.SSF	572528.012	39691
722029.633	4294284.097	5818	21-Dec-13	ALEX122113.SSF	572528.9341	39692
722030.196	4294283.395	6381	21-Dec-13	ALEX122113.SSF	572530.0681	39693
722030.657	4294282.758	6485	21-Dec-13	ALEX122113.SSF	572530.9961	39694
722031.356	4294282.014	7471	21-Dec-13	ALEX122113.SSF	572532.009	39695

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722032.162	4294281.242	7147	21-Dec-13	ALEX122113.SSF	572532.9919	39696
722032.819	4294280.44	7217	21-Dec-13	ALEX122113.SSF	572534.0359	39697
722033.485	4294279.654	7624	21-Dec-13	ALEX122113.SSF	572534.9561	39698
722034.16	4294278.952	8236	21-Dec-13	ALEX122113.SSF	572535.9529	39699
722034.506	4294278.393	7429	21-Dec-13	ALEX122113.SSF	572536.8689	39700
722034.878	4294277.635	7617	21-Dec-13	ALEX122113.SSF	572537.9751	39701
722035.214	4294277.176	7064	21-Dec-13	ALEX122113.SSF	572538.864	39702
722035.772	4294276.503	8066	21-Dec-13	ALEX122113.SSF	572539.9529	39703
722036.34	4294275.822	7056	21-Dec-13	ALEX122113.SSF	572540.876	39704
722037.074	4294275.101	7014	21-Dec-13	ALEX122113.SSF	572541.9041	39705
722037.808	4294274.506	8083	21-Dec-13	ALEX122113.SSF	572542.842	39706
722038.585	4294273.78	7571	21-Dec-13	ALEX122113.SSF	572544.0339	39707
722039.276	4294272.978	7892	21-Dec-13	ALEX122113.SSF	572544.9189	39708
722039.984	4294272.101	7403	21-Dec-13	ALEX122113.SSF	572546.002	39709
722040.538	4294271.359	7310	21-Dec-13	ALEX122113.SSF	572546.9441	39710
722041.107	4294270.622	7107	21-Dec-13	ALEX122113.SSF	572548.064	39711
722041.657	4294270.124	7417	21-Dec-13	ALEX122113.SSF	572548.8491	39712
722042.526	4294269.252	7134	21-Dec-13	ALEX122113.SSF	572549.98	39713
722043.108	4294268.385	6973	21-Dec-13	ALEX122113.SSF	572550.9509	39714
722043.543	4294267.654	6003	21-Dec-13	ALEX122113.SSF	572551.916	39715
722044.135	4294267.036	6661	21-Dec-13	ALEX122113.SSF	572552.8889	39716
722044.738	4294266.338	6405	21-Dec-13	ALEX122113.SSF	572553.9399	39717
722045.225	4294265.672	6971	21-Dec-13	ALEX122113.SSF	572554.8879	39718
722046.133	4294264.789	6423	21-Dec-13	ALEX122113.SSF	572556.0359	39719
722046.592	4294264.304	5985	21-Dec-13	ALEX122113.SSF	572556.9221	39720
722047.247	4294263.622	6089	21-Dec-13	ALEX122113.SSF	572557.9419	39721
722047.973	4294262.895	6063	21-Dec-13	ALEX122113.SSF	572558.864	39722
722048.806	4294261.934	6645	21-Dec-13	ALEX122113.SSF	572560.0879	39723
722049.265	4294261.274	6452	21-Dec-13	ALEX122113.SSF	572560.9819	39724
722049.971	4294260.472	6623	21-Dec-13	ALEX122113.SSF	572562.0081	39725
722050.543	4294259.811	6875	21-Dec-13	ALEX122113.SSF	572562.9939	39726
722051.083	4294259.177	7119	21-Dec-13	ALEX122113.SSF	572563.9951	39727
722051.752	4294258.58	5889	21-Dec-13	ALEX122113.SSF	572564.8789	39728
722052.475	4294257.812	5988	21-Dec-13	ALEX122113.SSF	572565.9871	39729
722053.05	4294256.996	5920	21-Dec-13	ALEX122113.SSF	572567.012	39730
722053.624	4294256.272	6690	21-Dec-13	ALEX122113.SSF	572567.927	39731
722054.236	4294255.677	7132	21-Dec-13	ALEX122113.SSF	572568.842	39732
722054.929	4294254.915	6283	21-Dec-13	ALEX122113.SSF	572569.9231	39733
722055.432	4294254.237	5711	21-Dec-13	ALEX122113.SSF	572570.916	39734
722055.98	4294253.605	6175	21-Dec-13	ALEX122113.SSF	572571.9529	39735
722056.494	4294253.043	6373	21-Dec-13	ALEX122113.SSF	572572.8669	39736
722056.919	4294252.459	6003	21-Dec-13	ALEX122113.SSF	572573.9661	39737
722056.999	4294252.33	6024	21-Dec-13	ALEX122113.SSF	572574.896	39738
722057.03	4294252.352	6474	21-Dec-13	ALEX122113.SSF	572576.0659	39739
722056.997	4294252.342	6132	21-Dec-13	ALEX122113.SSF	572577.0081	39740
722057.013	4294252.086	6603	21-Dec-13	ALEX122113.SSF	572578.0029	39741
722056.908	4294251.619	6030	21-Dec-13	ALEX122113.SSF	572578.8831	39742

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722056.633	4294250.724	7046	21-Dec-13	ALEX122113.SSF	572579.989	39743
722056.162	4294250.147	6981	21-Dec-13	ALEX122113.SSF	572580.8831	39744
722055.811	4294250.068	7145	21-Dec-13	ALEX122113.SSF	572582.0681	39745
722055.653	4294250.202	6586	21-Dec-13	ALEX122113.SSF	572582.884	39746
722055.206	4294250.477	6054	21-Dec-13	ALEX122113.SSF	572583.9839	39747
722054.66	4294251.031	5930	21-Dec-13	ALEX122113.SSF	572584.988	39748
722054.128	4294251.675	5983	21-Dec-13	ALEX122113.SSF	572586.0039	39749
722053.521	4294252.168	5663	21-Dec-13	ALEX122113.SSF	572587.0569	39750
722052.883	4294252.676	5810	21-Dec-13	ALEX122113.SSF	572588.0281	39751
722052.49	4294253.147	5938	21-Dec-13	ALEX122113.SSF	572588.884	39752
722051.94	4294253.774	6697	21-Dec-13	ALEX122113.SSF	572590.1201	39753
722050.992	4294255.034	6200	21-Dec-13	ALEX122113.SSF	572592.0491	39755
722050.517	4294255.516	5880	21-Dec-13	ALEX122113.SSF	572592.8911	39756
722049.852	4294256.278	6067	21-Dec-13	ALEX122113.SSF	572594.074	39757
722049.542	4294256.748	6647	21-Dec-13	ALEX122113.SSF	572594.874	39758
722048.931	4294257.375	6521	21-Dec-13	ALEX122113.SSF	572595.9819	39759
722048.378	4294257.918	6400	21-Dec-13	ALEX122113.SSF	572596.9221	39760
722047.811	4294258.59	7150	21-Dec-13	ALEX122113.SSF	572598.053	39761
722047.526	4294258.828	7307	21-Dec-13	ALEX122113.SSF	572598.875	39762
722047.573	4294258.913	7406	21-Dec-13	ALEX122113.SSF	572600.019	39763
722047.707	4294258.976	7461	21-Dec-13	ALEX122113.SSF	572600.9419	39764
722047.692	4294258.948	6035	21-Dec-13	ALEX122113.SSF	572602.0459	39765
722047.641	4294258.923	5757	21-Dec-13	ALEX122113.SSF	572602.8811	39766
722047.611	4294258.919	6696	21-Dec-13	ALEX122113.SSF	572603.95	39767
722047.59	4294258.942	6654	21-Dec-13	ALEX122113.SSF	572604.8811	39768
722047.581	4294258.958	7663	21-Dec-13	ALEX122113.SSF	572605.875	39769
722047.358	4294259.064	6686	21-Dec-13	ALEX122113.SSF	572606.886	39770
722046.871	4294259.298	6471	21-Dec-13	ALEX122113.SSF	572607.928	39771
722046.433	4294259.608	6927	21-Dec-13	ALEX122113.SSF	572608.8779	39772
722045.955	4294260.149	6112	21-Dec-13	ALEX122113.SSF	572609.9331	39773
722045.531	4294260.724	5906	21-Dec-13	ALEX122113.SSF	572610.8879	39774
722045.046	4294261.317	5635	21-Dec-13	ALEX122113.SSF	572611.915	39775
722044.718	4294261.92	5772	21-Dec-13	ALEX122113.SSF	572612.9031	39776
722044.279	4294262.599	7084	21-Dec-13	ALEX122113.SSF	572613.905	39777
722043.844	4294263.139	5911	21-Dec-13	ALEX122113.SSF	572614.8159	39778
722043.315	4294263.849	5531	21-Dec-13	ALEX122113.SSF	572615.874	39779
722042.811	4294264.427	5774	21-Dec-13	ALEX122113.SSF	572616.833	39780
722042.297	4294264.886	5685	21-Dec-13	ALEX122113.SSF	572617.876	39781
722041.769	4294265.481	6107	21-Dec-13	ALEX122113.SSF	572618.884	39782
722041.25	4294266.126	6596	21-Dec-13	ALEX122113.SSF	572619.884	39783
722040.641	4294266.746	6869	21-Dec-13	ALEX122113.SSF	572620.9309	39784
722040.064	4294267.427	6697	21-Dec-13	ALEX122113.SSF	572621.9109	39785
722039.602	4294268.047	6534	21-Dec-13	ALEX122113.SSF	572622.905	39786
722038.994	4294268.697	6793	21-Dec-13	ALEX122113.SSF	572623.905	39787
722038.465	4294269.326	7728	21-Dec-13	ALEX122113.SSF	572624.8711	39788
722037.911	4294269.97	7632	21-Dec-13	ALEX122113.SSF	572625.9121	39789
722037.315	4294270.53	6528	21-Dec-13	ALEX122113.SSF	572626.8411	39790

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722036.759	4294271.098	6492	21-Dec-13	ALEX122113.SSF	572627.916	39791
722036.22	4294271.795	6483	21-Dec-13	ALEX122113.SSF	572628.9141	39792
722035.655	4294272.545	6660	21-Dec-13	ALEX122113.SSF	572629.9021	39793
722035.078	4294273.141	6555	21-Dec-13	ALEX122113.SSF	572630.833	39794
722034.405	4294273.887	6948	21-Dec-13	ALEX122113.SSF	572631.938	39795
722033.949	4294274.652	7317	21-Dec-13	ALEX122113.SSF	572632.9199	39796
722033.337	4294275.387	6359	21-Dec-13	ALEX122113.SSF	572633.946	39797
722032.795	4294275.913	6900	21-Dec-13	ALEX122113.SSF	572634.864	39798
722032.228	4294276.459	6135	21-Dec-13	ALEX122113.SSF	572635.8889	39799
722031.694	4294276.987	6093	21-Dec-13	ALEX122113.SSF	572636.8201	39800
722031.164	4294277.614	6803	21-Dec-13	ALEX122113.SSF	572637.949	39801
722030.739	4294278.298	6151	21-Dec-13	ALEX122113.SSF	572638.8879	39802
722030.086	4294279.27	5947	21-Dec-13	ALEX122113.SSF	572640.1211	39803
722029.601	4294279.756	7030	21-Dec-13	ALEX122113.SSF	572640.876	39804
722028.898	4294280.203	7607	21-Dec-13	ALEX122113.SSF	572641.936	39805
722028.345	4294280.723	6221	21-Dec-13	ALEX122113.SSF	572642.895	39806
722027.852	4294281.488	6685	21-Dec-13	ALEX122113.SSF	572643.938	39807
722027.286	4294282.205	6741	21-Dec-13	ALEX122113.SSF	572644.9021	39808
722026.661	4294282.891	5555	21-Dec-13	ALEX122113.SSF	572645.8701	39809
722026.088	4294283.626	6049	21-Dec-13	ALEX122113.SSF	572646.8611	39810
722025.585	4294284.394	6080	21-Dec-13	ALEX122113.SSF	572647.9021	39811
722025.017	4294284.981	6860	21-Dec-13	ALEX122113.SSF	572648.833	39812
722024.378	4294285.674	6245	21-Dec-13	ALEX122113.SSF	572649.8779	39813
722023.983	4294286.454	6121	21-Dec-13	ALEX122113.SSF	572650.759	39814
722023.444	4294287.318	6150	21-Dec-13	ALEX122113.SSF	572651.9451	39815
722022.966	4294287.87	7807	21-Dec-13	ALEX122113.SSF	572652.801	39816
722022.415	4294288.62	6482	21-Dec-13	ALEX122113.SSF	572653.8601	39817
722021.941	4294289.386	6420	21-Dec-13	ALEX122113.SSF	572654.821	39818
722021.313	4294290.269	6885	21-Dec-13	ALEX122113.SSF	572655.8889	39819
722020.71	4294290.929	6581	21-Dec-13	ALEX122113.SSF	572656.8291	39820
722019.983	4294291.805	7225	21-Dec-13	ALEX122113.SSF	572658.0359	39821
722019.524	4294292.432	7146	21-Dec-13	ALEX122113.SSF	572658.8279	39822
722018.68	4294293.213	7396	21-Dec-13	ALEX122113.SSF	572659.9309	39823
722018.051	4294293.812	9559	21-Dec-13	ALEX122113.SSF	572660.8169	39824
722017.451	4294294.556	9379	21-Dec-13	ALEX122113.SSF	572661.8679	39825
722017.003	4294295.224	8975	21-Dec-13	ALEX122113.SSF	572662.8191	39826
722016.328	4294295.943	8423	21-Dec-13	ALEX122113.SSF	572663.853	39827
722015.681	4294296.561	8406	21-Dec-13	ALEX122113.SSF	572664.8521	39828
722015.029	4294297.423	8401	21-Dec-13	ALEX122113.SSF	572665.9299	39829
722014.49	4294298.107	9900	21-Dec-13	ALEX122113.SSF	572666.8879	39830
722013.872	4294298.815	8895	21-Dec-13	ALEX122113.SSF	572667.95	39831
722013.36	4294299.529	9363	21-Dec-13	ALEX122113.SSF	572668.8601	39832
722012.889	4294300.388	9331	21-Dec-13	ALEX122113.SSF	572669.929	39833
722012.239	4294301.087	9892	21-Dec-13	ALEX122113.SSF	572670.8669	39834
722011.532	4294301.803	8953	21-Dec-13	ALEX122113.SSF	572671.926	39835
722011.119	4294302.52	9078	21-Dec-13	ALEX122113.SSF	572672.8479	39836
722010.464	4294303.391	9169	21-Dec-13	ALEX122113.SSF	572673.99	39837

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722010.041	4294303.883	8142	21-Dec-13	ALEX122113.SSF	572674.825	39838
722009.485	4294304.55	9655	21-Dec-13	ALEX122113.SSF	572675.9541	39839
722008.905	4294305.207	9824	21-Dec-13	ALEX122113.SSF	572676.866	39840
722008.153	4294305.984	9326	21-Dec-13	ALEX122113.SSF	572677.9729	39841
722007.648	4294306.633	8481	21-Dec-13	ALEX122113.SSF	572678.9221	39842
722007.214	4294307.34	8420	21-Dec-13	ALEX122113.SSF	572679.9771	39843
722006.725	4294307.876	9095	21-Dec-13	ALEX122113.SSF	572680.7839	39844
722006.103	4294308.636	8843	21-Dec-13	ALEX122113.SSF	572681.9351	39845
722005.728	4294309.255	9651	21-Dec-13	ALEX122113.SSF	572682.8291	39846
722005.16	4294309.965	8682	21-Dec-13	ALEX122113.SSF	572683.8779	39847
722004.669	4294310.45	8650	21-Dec-13	ALEX122113.SSF	572684.769	39848
722004.166	4294311.118	8702	21-Dec-13	ALEX122113.SSF	572685.9661	39849
722004.005	4294311.502	8415	21-Dec-13	ALEX122113.SSF	572686.8411	39850
722003.926	4294311.659	9813	21-Dec-13	ALEX122113.SSF	572687.9971	39851
722003.907	4294311.574	8633	21-Dec-13	ALEX122113.SSF	572688.8491	39852
722003.828	4294311.442	9418	21-Dec-13	ALEX122113.SSF	572689.9961	39853
722003.779	4294311.405	8834	21-Dec-13	ALEX122113.SSF	572690.8701	39854
722003.786	4294311.414	9738	21-Dec-13	ALEX122113.SSF	572691.896	39855
722003.811	4294311.431	10144	21-Dec-13	ALEX122113.SSF	572692.8259	39856
722003.806	4294311.371	8386	21-Dec-13	ALEX122113.SSF	572693.8311	39857
722003.789	4294311.307	8966	21-Dec-13	ALEX122113.SSF	572694.8669	39858
722003.775	4294311.307	8361	21-Dec-13	ALEX122113.SSF	572695.9529	39859
722003.791	4294311.328	10070	21-Dec-13	ALEX122113.SSF	572696.8831	39860
722003.787	4294311.344	9117	21-Dec-13	ALEX122113.SSF	572697.9399	39861
722003.781	4294311.358	8759	21-Dec-13	ALEX122113.SSF	572698.821	39862
722003.806	4294311.378	8730	21-Dec-13	ALEX122113.SSF	572699.9529	39863
722003.874	4294311.411	9322	21-Dec-13	ALEX122113.SSF	572701.011	39864
722003.909	4294311.394	8870	21-Dec-13	ALEX122113.SSF	572701.9431	39865
722003.936	4294311.39	9537	21-Dec-13	ALEX122113.SSF	572702.8459	39866
722004.075	4294311.464	9404	21-Dec-13	ALEX122113.SSF	572703.8979	39867
722004.206	4294311.484	8351	21-Dec-13	ALEX122113.SSF	572704.8159	39868
722004.246	4294311.479	9407	21-Dec-13	ALEX122113.SSF	572705.908	39869
722004.196	4294311.476	9491	21-Dec-13	ALEX122113.SSF	572706.814	39870
722004.098	4294311.48	9573	21-Dec-13	ALEX122113.SSF	572707.9741	39871
722004.042	4294311.492	9713	21-Dec-13	ALEX122113.SSF	572708.9041	39872
722003.968	4294311.46	9198	21-Dec-13	ALEX122113.SSF	572751.9031	39873
722003.958	4294311.451	9589	21-Dec-13	ALEX122113.SSF	572752.8181	39874
722003.942	4294311.466	8997	21-Dec-13	ALEX122113.SSF	572753.8491	39875
722003.984	4294311.412	8789	21-Dec-13	ALEX122113.SSF	572754.8069	39876
722003.938	4294311.257	8797	21-Dec-13	ALEX122113.SSF	572755.9431	39877
722003.819	4294311.223	10029	21-Dec-13	ALEX122113.SSF	572756.842	39878
722003.864	4294311.265	8027	21-Dec-13	ALEX122113.SSF	572757.8679	39879
722003.837	4294311.254	9026	21-Dec-13	ALEX122113.SSF	572758.8621	39880
722003.78	4294311.194	9126	21-Dec-13	ALEX122113.SSF	572759.9089	39881
722003.783	4294311.189	9691	21-Dec-13	ALEX122113.SSF	572760.929	39882
722003.783	4294311.257	8752	21-Dec-13	ALEX122113.SSF	572761.8899	39883
722003.835	4294311.35	8788	21-Dec-13	ALEX122113.SSF	572762.853	39884

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722003.855	4294311.364	8797	21-Dec-13	ALEX122113.SSF	572763.9299	39885
722003.868	4294311.273	9369	21-Dec-13	ALEX122113.SSF	572764.835	39886
722003.801	4294310.82	8432	21-Dec-13	ALEX122113.SSF	572765.928	39887
722003.617	4294310.623	9578	21-Dec-13	ALEX122113.SSF	572766.833	39888
722003.425	4294310.558	8814	21-Dec-13	ALEX122113.SSF	572767.9351	39889
722003.172	4294310.071	8893	21-Dec-13	ALEX122113.SSF	572768.8291	39890
722002.507	4294309.418	10593	21-Dec-13	ALEX122113.SSF	572769.887	39891
722001.98	4294309.214	9038	21-Dec-13	ALEX122113.SSF	572770.738	39892
722001.779	4294309.193	8289	21-Dec-13	ALEX122113.SSF	572771.8779	39893
722001.838	4294309.228	8432	21-Dec-13	ALEX122113.SSF	572772.7739	39894
722001.858	4294309.2	9608	21-Dec-13	ALEX122113.SSF	572773.8799	39895
722001.861	4294309.18	10502	21-Dec-13	ALEX122113.SSF	572774.801	39896
722001.872	4294309.206	9585	21-Dec-13	ALEX122113.SSF	572775.8679	39897
722001.9	4294309.228	8846	21-Dec-13	ALEX122113.SSF	572776.873	39898
722001.899	4294309.25	7851	21-Dec-13	ALEX122113.SSF	572777.897	39899
722001.891	4294309.327	8233	21-Dec-13	ALEX122113.SSF	572778.761	39900
722001.905	4294309.358	9408	21-Dec-13	ALEX122113.SSF	572779.9021	39901
722001.879	4294309.248	9312	21-Dec-13	ALEX122113.SSF	572780.845	39902
722001.906	4294309.199	8808	21-Dec-13	ALEX122113.SSF	572781.9819	39903
722001.879	4294309.192	9192	21-Dec-13	ALEX122113.SSF	572782.8589	39904
722001.862	4294309.178	9768	21-Dec-13	ALEX122113.SSF	572783.906	39905
722001.926	4294309.148	8862	21-Dec-13	ALEX122113.SSF	572784.8301	39906
722001.969	4294309.027	9895	21-Dec-13	ALEX122113.SSF	572785.8989	39907
722002.005	4294308.974	9584	21-Dec-13	ALEX122113.SSF	572786.825	39908
722002.102	4294308.988	9026	21-Dec-13	ALEX122113.SSF	572787.926	39909
722002.099	4294309.092	9816	21-Dec-13	ALEX122113.SSF	572788.804	39910
722002.05	4294309.172	9444	21-Dec-13	ALEX122113.SSF	572789.9089	39911
722002.033	4294309.17	9801	21-Dec-13	ALEX122113.SSF	572790.8081	39912
722002.044	4294309.232	9560	21-Dec-13	ALEX122113.SSF	572791.9199	39913
722002.071	4294309.336	9770	21-Dec-13	ALEX122113.SSF	572792.8279	39914
722002.127	4294309.511	9822	21-Dec-13	ALEX122113.SSF	572793.8789	39915
722002.249	4294309.505	8365	21-Dec-13	ALEX122113.SSF	572794.8721	39916
722002.301	4294309.474	9981	21-Dec-13	ALEX122113.SSF	572795.8491	39917
722002.274	4294309.476	9725	21-Dec-13	ALEX122113.SSF	572796.748	39918
722002.275	4294309.51	8911	21-Dec-13	ALEX122113.SSF	572797.8511	39919
722002.274	4294309.574	9277	21-Dec-13	ALEX122113.SSF	572798.741	39920
722002.281	4294309.615	9969	21-Dec-13	ALEX122113.SSF	572799.842	39921
722002.234	4294309.605	10082	21-Dec-13	ALEX122113.SSF	572800.7329	39922
722002.195	4294309.604	9210	21-Dec-13	ALEX122113.SSF	572801.833	39923
722002.069	4294309.49	9562	21-Dec-13	ALEX122113.SSF	572802.748	39924
722001.88	4294309.372	8750	21-Dec-13	ALEX122113.SSF	572803.8259	39925
722001.805	4294309.406	9687	21-Dec-13	ALEX122113.SSF	572804.7361	39926
722001.736	4294309.468	9952	21-Dec-13	ALEX122113.SSF	572805.886	39927
722001.877	4294309.689	9058	21-Dec-13	ALEX122113.SSF	572806.8169	39928
722002.191	4294310.133	9674	21-Dec-13	ALEX122113.SSF	572807.8279	39929
722002.284	4294310.38	9618	21-Dec-13	ALEX122113.SSF	572808.7271	39930
722002.294	4294310.427	9004	21-Dec-13	ALEX122113.SSF	572809.864	39931

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722002.289	4294310.376	9511	21-Dec-13	ALEX122113.SSF	572810.802	39932
722002.215	4294310.138	9217	21-Dec-13	ALEX122113.SSF	572811.9351	39933
722002.225	4294310.031	10134	21-Dec-13	ALEX122113.SSF	572812.7981	39934
722002.288	4294310.129	10693	21-Dec-13	ALEX122113.SSF	572813.9309	39935
722002.268	4294310.135	8403	21-Dec-13	ALEX122113.SSF	572814.8611	39936
722002.232	4294310.16	9780	21-Dec-13	ALEX122113.SSF	572815.894	39937
722002.217	4294310.186	10215	21-Dec-13	ALEX122113.SSF	572816.811	39938
722002.144	4294310.039	9363	21-Dec-13	ALEX122113.SSF	572817.9309	39939
722002.176	4294310.017	8971	21-Dec-13	ALEX122113.SSF	572818.7629	39940
722002.253	4294310.159	8872	21-Dec-13	ALEX122113.SSF	572820.1321	39941
722002.26	4294310.163	9988	21-Dec-13	ALEX122113.SSF	572820.866	39942
722002.236	4294310.127	8977	21-Dec-13	ALEX122113.SSF	572821.947	39943
722002.205	4294310.09	9564	21-Dec-13	ALEX122113.SSF	572822.8411	39944
722002.187	4294310.073	10191	21-Dec-13	ALEX122113.SSF	572823.8779	39945
722002.174	4294310.046	10077	21-Dec-13	ALEX122113.SSF	572824.834	39946
722002.179	4294310.01	9689	21-Dec-13	ALEX122113.SSF	572825.8301	39947
722002.175	4294309.983	9112	21-Dec-13	ALEX122113.SSF	572826.7649	39948
722002.184	4294309.953	10018	21-Dec-13	ALEX122113.SSF	572827.8311	39949
722002.188	4294309.856	9644	21-Dec-13	ALEX122113.SSF	572828.7849	39950
722002.18	4294309.701	9731	21-Dec-13	ALEX122113.SSF	572829.843	39951
722002.174	4294309.682	9782	21-Dec-13	ALEX122113.SSF	572830.7649	39952
722002.154	4294309.672	9975	21-Dec-13	ALEX122113.SSF	572831.864	39953
722002.178	4294309.675	9543	21-Dec-13	ALEX122113.SSF	572832.8391	39954
722002.146	4294309.744	9886	21-Dec-13	ALEX122113.SSF	572833.8611	39955
722002.243	4294309.981	9731	21-Dec-13	ALEX122113.SSF	572834.761	39956
722002.519	4294310.459	8883	21-Dec-13	ALEX122113.SSF	572835.8669	39957
722002.754	4294310.376	9480	21-Dec-13	ALEX122113.SSF	572836.7871	39958
722002.883	4294310.098	9330	21-Dec-13	ALEX122113.SSF	572837.7959	39959
722002.878	4294309.904	9322	21-Dec-13	ALEX122113.SSF	572838.7891	39960
722002.93	4294309.83	9950	21-Dec-13	ALEX122113.SSF	572839.8669	39961
722003.076	4294309.744	9447	21-Dec-13	ALEX122113.SSF	572840.833	39962
722003.367	4294309.445	9982	21-Dec-13	ALEX122113.SSF	572841.938	39963
722003.558	4294309.244	10295	21-Dec-13	ALEX122113.SSF	572842.866	39964
722003.799	4294309.294	10283	21-Dec-13	ALEX122113.SSF	572843.9399	39965
722003.945	4294309.346	8691	21-Dec-13	ALEX122113.SSF	572844.8391	39966
722004.127	4294309.07	9222	21-Dec-13	ALEX122113.SSF	572845.8491	39967
722004.274	4294308.86	9865	21-Dec-13	ALEX122113.SSF	572846.877	39968
722004.383	4294308.709	9876	21-Dec-13	ALEX122113.SSF	572847.926	39969
722004.404	4294308.622	10239	21-Dec-13	ALEX122113.SSF	572848.853	39970
722004.406	4294308.564	9909	21-Dec-13	ALEX122113.SSF	572849.844	39971
722004.381	4294308.538	8867	21-Dec-13	ALEX122113.SSF	572850.782	39972
722004.316	4294308.538	8306	21-Dec-13	ALEX122113.SSF	572851.8989	39973
722004.263	4294308.549	10266	21-Dec-13	ALEX122113.SSF	572852.7639	39974
722004.204	4294308.563	10666	21-Dec-13	ALEX122113.SSF	572853.8621	39975
722004.16	4294308.574	10736	21-Dec-13	ALEX122113.SSF	572854.7939	39976
722004.114	4294308.592	9974	21-Dec-13	ALEX122113.SSF	572855.844	39977
722004.069	4294308.617	8493	21-Dec-13	ALEX122113.SSF	572856.824	39978

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722004.014	4294308.645	7703	21-Dec-13	ALEX122113.SSF	572857.948	39979
722003.997	4294308.655	9455	21-Dec-13	ALEX122113.SSF	572858.781	39980
722003.968	4294308.674	10554	21-Dec-13	ALEX122113.SSF	572859.8931	39981
722003.956	4294308.685	9808	21-Dec-13	ALEX122113.SSF	572860.7429	39982
722003.925	4294308.697	10042	21-Dec-13	ALEX122113.SSF	572861.875	39983
722003.949	4294308.677	9140	21-Dec-13	ALEX122113.SSF	572862.709	39984
722003.974	4294308.657	8585	21-Dec-13	ALEX122113.SSF	572863.8701	39985
722003.992	4294308.648	9346	21-Dec-13	ALEX122113.SSF	572864.7991	39986
722004.132	4294308.678	10586	21-Dec-13	ALEX122113.SSF	572865.8391	39987
722004	4294309.015	10476	21-Dec-13	ALEX122113.SSF	572866.731	39988
722003.74	4294309.374	10029	21-Dec-13	ALEX122113.SSF	572867.824	39989
722003.558	4294309.408	9707	21-Dec-13	ALEX122113.SSF	572868.7439	39990
722003.638	4294309.321	9656	21-Dec-13	ALEX122113.SSF	572869.8999	39991
722003.754	4294309.277	10304	21-Dec-13	ALEX122113.SSF	572870.79	39992
722003.823	4294309.201	9296	21-Dec-13	ALEX122113.SSF	572871.9041	39993
722003.816	4294309.111	9164	21-Dec-13	ALEX122113.SSF	572872.793	39994
722003.843	4294309.014	8621	21-Dec-13	ALEX122113.SSF	572873.8359	39995
722003.859	4294308.971	8575	21-Dec-13	ALEX122113.SSF	572874.7791	39996
722003.952	4294308.882	8983	21-Dec-13	ALEX122113.SSF	572875.8701	39997
722004.025	4294308.818	9626	21-Dec-13	ALEX122113.SSF	572876.863	39998
722004.061	4294308.795	9546	21-Dec-13	ALEX122113.SSF	572877.8831	39999
722004.111	4294308.767	9796	21-Dec-13	ALEX122113.SSF	572878.821	40000
722004.198	4294308.763	9859	21-Dec-13	ALEX122113.SSF	572879.8899	40001
722004.31	4294308.742	9274	21-Dec-13	ALEX122113.SSF	572880.7581	40002
722004.201	4294308.747	8258	21-Dec-13	ALEX122113.SSF	572881.8779	40003
722004.084	4294308.73	8634	21-Dec-13	ALEX122113.SSF	572882.7251	40004
722004.146	4294308.706	8608	21-Dec-13	ALEX122113.SSF	572883.8779	40005
722004.263	4294308.691	9832	21-Dec-13	ALEX122113.SSF	572884.748	40006
722004.283	4294308.803	9688	21-Dec-13	ALEX122113.SSF	572885.8159	40007
722004.271	4294308.884	9112	21-Dec-13	ALEX122113.SSF	572886.7439	40008
722004.43	4294308.615	8848	21-Dec-13	ALEX122113.SSF	572887.7791	40009
722004.674	4294308.101	9232	21-Dec-13	ALEX122113.SSF	572888.7451	40010
722005.127	4294307.376	8818	21-Dec-13	ALEX122113.SSF	572889.7681	40011
722005.673	4294306.764	8744	21-Dec-13	ALEX122113.SSF	572890.75	40012
722006.382	4294305.982	9746	21-Dec-13	ALEX122113.SSF	572891.843	40013
722006.837	4294305.276	9156	21-Dec-13	ALEX122113.SSF	572892.7859	40014
722006.923	4294304.659	10119	21-Dec-13	ALEX122113.SSF	572893.9761	40015
722006.759	4294304.604	9039	21-Dec-13	ALEX122113.SSF	572894.824	40016
722006.443	4294305.16	9130	21-Dec-13	ALEX122113.SSF	572896.0081	40017
722006.054	4294305.813	9422	21-Dec-13	ALEX122113.SSF	572896.739	40018
722005.413	4294306.817	9105	21-Dec-13	ALEX122113.SSF	572897.907	40019
722004.907	4294307.511	9806	21-Dec-13	ALEX122113.SSF	572898.769	40020
722004.207	4294308.25	9891	21-Dec-13	ALEX122113.SSF	572899.8391	40021
722003.729	4294308.682	8923	21-Dec-13	ALEX122113.SSF	572900.6521	40022
722003.363	4294309.134	9700	21-Dec-13	ALEX122113.SSF	572901.7791	40023
722003.29	4294309.326	8995	21-Dec-13	ALEX122113.SSF	572902.6731	40024
722003.307	4294309.367	9598	21-Dec-13	ALEX122113.SSF	572903.741	40025

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722003.517	4294309.398	9299	21-Dec-13	ALEX122113.SSF	572904.699	40026
722003.953	4294309.232	9435	21-Dec-13	ALEX122113.SSF	572905.866	40027
722004.295	4294308.666	10128	21-Dec-13	ALEX122113.SSF	572906.76	40028
722004.879	4294307.707	9582	21-Dec-13	ALEX122113.SSF	572907.8989	40029
722005.295	4294307.09	9055	21-Dec-13	ALEX122113.SSF	572908.7439	40030
722005.759	4294306.134	9164	21-Dec-13	ALEX122113.SSF	572909.8999	40031
722006.168	4294305.421	9251	21-Dec-13	ALEX122113.SSF	572910.749	40032
722006.747	4294304.758	8372	21-Dec-13	ALEX122113.SSF	572911.8511	40033
722007.26	4294304.09	8483	21-Dec-13	ALEX122113.SSF	572912.7729	40034
722007.686	4294303.182	8510	21-Dec-13	ALEX122113.SSF	572913.925	40035
722008.103	4294302.667	8607	21-Dec-13	ALEX122113.SSF	572914.7429	40036
722008.671	4294301.923	9652	21-Dec-13	ALEX122113.SSF	572915.8779	40037
722009.055	4294301.283	9853	21-Dec-13	ALEX122113.SSF	572916.7991	40038
722009.707	4294300.501	9813	21-Dec-13	ALEX122113.SSF	572917.8721	40039
722010.316	4294299.783	9533	21-Dec-13	ALEX122113.SSF	572918.7971	40040
722010.886	4294298.886	8533	21-Dec-13	ALEX122113.SSF	572919.8579	40041
722011.351	4294298.164	9693	21-Dec-13	ALEX122113.SSF	572920.7361	40042
722011.957	4294297.465	9173	21-Dec-13	ALEX122113.SSF	572921.772	40043
722012.513	4294296.785	8023	21-Dec-13	ALEX122113.SSF	572922.71	40044
722013.131	4294295.799	9236	21-Dec-13	ALEX122113.SSF	572923.844	40045
722013.658	4294295.071	9449	21-Dec-13	ALEX122113.SSF	572924.771	40046
722014.375	4294294.181	8092	21-Dec-13	ALEX122113.SSF	572925.8479	40047
722014.882	4294293.465	7873	21-Dec-13	ALEX122113.SSF	572926.8459	40048
722015.449	4294292.711	8538	21-Dec-13	ALEX122113.SSF	572927.9141	40049
722015.909	4294292.133	7534	21-Dec-13	ALEX122113.SSF	572928.7351	40050
722016.458	4294291.308	6803	21-Dec-13	ALEX122113.SSF	572929.885	40051
722016.955	4294290.678	7191	21-Dec-13	ALEX122113.SSF	572930.7429	40052
722017.562	4294289.981	7197	21-Dec-13	ALEX122113.SSF	572931.8181	40053
722018.039	4294289.241	6299	21-Dec-13	ALEX122113.SSF	572932.7571	40054
722018.614	4294288.312	6322	21-Dec-13	ALEX122113.SSF	572933.8501	40055
722019.093	4294287.748	5780	21-Dec-13	ALEX122113.SSF	572934.6741	40056
722019.734	4294286.949	5493	21-Dec-13	ALEX122113.SSF	572935.8491	40057
722020.175	4294286.284	5490	21-Dec-13	ALEX122113.SSF	572936.781	40058
722020.719	4294285.614	5743	21-Dec-13	ALEX122113.SSF	572937.823	40059
722021.227	4294284.916	5690	21-Dec-13	ALEX122113.SSF	572938.7839	40060
722021.758	4294284.124	5586	21-Dec-13	ALEX122113.SSF	572939.825	40061
722022.467	4294283.397	5977	21-Dec-13	ALEX122113.SSF	572940.7539	40062
722023.278	4294282.549	6246	21-Dec-13	ALEX122113.SSF	572941.7891	40063
722023.898	4294281.7	6241	21-Dec-13	ALEX122113.SSF	572942.7939	40064
722024.533	4294280.831	6480	21-Dec-13	ALEX122113.SSF	572943.8101	40065
722025.139	4294280.07	6180	21-Dec-13	ALEX122113.SSF	572944.7749	40066
722025.863	4294279.234	6315	21-Dec-13	ALEX122113.SSF	572945.873	40067
722026.428	4294278.448	6168	21-Dec-13	ALEX122113.SSF	572946.822	40068
722027.061	4294277.548	5313	21-Dec-13	ALEX122113.SSF	572947.9819	40069
722027.561	4294276.974	5388	21-Dec-13	ALEX122113.SSF	572948.8369	40070
722028.096	4294276.228	5663	21-Dec-13	ALEX122113.SSF	572949.8369	40071
722028.622	4294275.43	5623	21-Dec-13	ALEX122113.SSF	572950.804	40072

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722029.298	4294274.614	5638	21-Dec-13	ALEX122113.SSF	572951.8191	40073
722029.938	4294273.976	5706	21-Dec-13	ALEX122113.SSF	572952.7629	40074
722030.626	4294273.082	5992	21-Dec-13	ALEX122113.SSF	572953.9199	40075
722031.155	4294272.325	6027	21-Dec-13	ALEX122113.SSF	572954.762	40076
722031.938	4294271.486	5812	21-Dec-13	ALEX122113.SSF	572955.9089	40077
722032.384	4294270.901	6127	21-Dec-13	ALEX122113.SSF	572956.75	40078
722032.829	4294270.063	5942	21-Dec-13	ALEX122113.SSF	572957.844	40079
722033.336	4294269.417	6047	21-Dec-13	ALEX122113.SSF	572958.804	40080
722033.822	4294268.904	5875	21-Dec-13	ALEX122113.SSF	572959.8369	40081
722033.939	4294268.692	5787	21-Dec-13	ALEX122113.SSF	572960.7129	40082
722033.823	4294268.686	7090	21-Dec-13	ALEX122113.SSF	572961.8069	40083
722033.705	4294268.792	7112	21-Dec-13	ALEX122113.SSF	572962.7061	40084
722033.526	4294269.27	6458	21-Dec-13	ALEX122113.SSF	572963.8899	40085
722033.417	4294269.706	5391	21-Dec-13	ALEX122113.SSF	572964.762	40086
722033.659	4294269.893	4960	21-Dec-13	ALEX122113.SSF	572965.762	40087
722034.268	4294270.058	5362	21-Dec-13	ALEX122113.SSF	572966.696	40088
722035.105	4294270.249	5821	21-Dec-13	ALEX122113.SSF	572967.8159	40089
722035.809	4294270.032	5569	21-Dec-13	ALEX122113.SSF	572968.7009	40090
722036.376	4294269.965	5518	21-Dec-13	ALEX122113.SSF	572969.814	40091
722036.388	4294270.336	5676	21-Dec-13	ALEX122113.SSF	572970.688	40092
722036.145	4294270.644	5780	21-Dec-13	ALEX122113.SSF	572971.7791	40093
722035.629	4294270.953	6652	21-Dec-13	ALEX122113.SSF	572972.709	40094
722034.886	4294271.495	6673	21-Dec-13	ALEX122113.SSF	572973.7791	40095
722034.335	4294272.095	6588	21-Dec-13	ALEX122113.SSF	572974.7161	40096
722033.804	4294272.782	6567	21-Dec-13	ALEX122113.SSF	572975.7451	40097
722033.251	4294273.373	5852	21-Dec-13	ALEX122113.SSF	572976.678	40098
722032.466	4294274.139	5842	21-Dec-13	ALEX122113.SSF	572977.821	40099
722031.914	4294274.775	6031	21-Dec-13	ALEX122113.SSF	572978.7419	40100
722031.215	4294275.536	6040	21-Dec-13	ALEX122113.SSF	572979.8	40101
722030.699	4294276.098	5527	21-Dec-13	ALEX122113.SSF	572980.6941	40102
722030.142	4294276.872	5801	21-Dec-13	ALEX122113.SSF	572981.823	40103
722029.66	4294277.517	5993	21-Dec-13	ALEX122113.SSF	572982.7681	40104
722029.069	4294278.115	6387	21-Dec-13	ALEX122113.SSF	572983.842	40105
722028.778	4294278.249	6247	21-Dec-13	ALEX122113.SSF	572984.699	40106
722029.089	4294278.11	6242	21-Dec-13	ALEX122113.SSF	572985.8149	40107
722029.646	4294277.817	6510	21-Dec-13	ALEX122113.SSF	572986.793	40108
722030.215	4294277.201	6307	21-Dec-13	ALEX122113.SSF	572987.791	40109
722030.787	4294276.368	6287	21-Dec-13	ALEX122113.SSF	572988.76	40110
722031.529	4294275.466	6191	21-Dec-13	ALEX122113.SSF	572989.8301	40111
722032.33	4294274.847	6108	21-Dec-13	ALEX122113.SSF	572990.812	40112
722033.143	4294274.104	5620	21-Dec-13	ALEX122113.SSF	572991.8669	40113
722033.681	4294273.425	6131	21-Dec-13	ALEX122113.SSF	572992.74	40114
722034.568	4294272.564	6693	21-Dec-13	ALEX122113.SSF	572993.8269	40115
722035.349	4294271.905	5869	21-Dec-13	ALEX122113.SSF	572994.751	40116
722036.163	4294271.057	5836	21-Dec-13	ALEX122113.SSF	572995.7991	40117
722036.862	4294270.221	5998	21-Dec-13	ALEX122113.SSF	572996.72	40118
722037.813	4294269.317	6329	21-Dec-13	ALEX122113.SSF	572997.845	40119

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722038.462	4294268.737	6112	21-Dec-13	ALEX122113.SSF	572998.7051	40120
722039.122	4294267.97	6658	21-Dec-13	ALEX122113.SSF	572999.874	40121
722039.66	4294267.41	6974	21-Dec-13	ALEX122113.SSF	573000.6741	40122
722040.377	4294266.767	6453	21-Dec-13	ALEX122113.SSF	573001.7151	40123
722040.968	4294266.101	5933	21-Dec-13	ALEX122113.SSF	573002.7061	40124
722041.518	4294265.271	6060	21-Dec-13	ALEX122113.SSF	573003.782	40125
722042.082	4294264.65	6255	21-Dec-13	ALEX122113.SSF	573004.6479	40126
722042.891	4294263.914	5510	21-Dec-13	ALEX122113.SSF	573005.7949	40127
722043.536	4294263.254	6152	21-Dec-13	ALEX122113.SSF	573006.729	40128
722044.295	4294262.45	5768	21-Dec-13	ALEX122113.SSF	573007.7959	40129
722044.955	4294261.844	5658	21-Dec-13	ALEX122113.SSF	573008.7949	40130
722045.618	4294261.213	5732	21-Dec-13	ALEX122113.SSF	573009.7991	40131
722046.268	4294260.535	5909	21-Dec-13	ALEX122113.SSF	573010.8101	40132
722047.009	4294259.828	6431	21-Dec-13	ALEX122113.SSF	573011.8491	40133
722047.658	4294259.212	6167	21-Dec-13	ALEX122113.SSF	573012.7671	40134
722048.42	4294258.389	6281	21-Dec-13	ALEX122113.SSF	573013.793	40135
722049.16	4294257.579	6400	21-Dec-13	ALEX122113.SSF	573014.792	40136
722049.982	4294256.873	6580	21-Dec-13	ALEX122113.SSF	573015.781	40137
722050.694	4294256.218	7045	21-Dec-13	ALEX122113.SSF	573016.759	40138
722051.393	4294255.337	6981	21-Dec-13	ALEX122113.SSF	573017.8359	40139
722051.962	4294254.585	7025	21-Dec-13	ALEX122113.SSF	573018.752	40140
722052.738	4294253.83	5506	21-Dec-13	ALEX122113.SSF	573019.791	40141
722053.47	4294253.163	6404	21-Dec-13	ALEX122113.SSF	573020.77	40142
722054.117	4294252.443	5971	21-Dec-13	ALEX122113.SSF	573021.814	40143
722054.67	4294251.766	6379	21-Dec-13	ALEX122113.SSF	573022.77	40144
722055.235	4294251.232	6364	21-Dec-13	ALEX122113.SSF	573023.7671	40145
722055.562	4294250.939	6451	21-Dec-13	ALEX122113.SSF	573024.6841	40146
722055.649	4294250.783	6712	21-Dec-13	ALEX122113.SSF	573025.7571	40147
722055.536	4294250.785	6628	21-Dec-13	ALEX122113.SSF	573026.699	40148
722055.274	4294250.942	5917	21-Dec-13	ALEX122113.SSF	573027.7839	40149
722055.109	4294251.053	5841	21-Dec-13	ALEX122113.SSF	573028.655	40150
722055.008	4294251.026	6180	21-Dec-13	ALEX122113.SSF	573029.7161	40151
722054.699	4294251.186	6157	21-Dec-13	ALEX122113.SSF	573030.6909	40152
722053.944	4294251.955	6509	21-Dec-13	ALEX122113.SSF	573031.8979	40153
722053.339	4294252.583	6667	21-Dec-13	ALEX122113.SSF	573032.6899	40154
722052.443	4294253.378	6346	21-Dec-13	ALEX122113.SSF	573033.8059	40155
722051.706	4294253.992	6476	21-Dec-13	ALEX122113.SSF	573034.7549	40156
722050.913	4294254.81	6449	21-Dec-13	ALEX122113.SSF	573035.823	40157
722050.248	4294255.601	7012	21-Dec-13	ALEX122113.SSF	573036.665	40158
722049.391	4294256.635	7033	21-Dec-13	ALEX122113.SSF	573037.7629	40159
722048.644	4294257.485	6348	21-Dec-13	ALEX122113.SSF	573038.7371	40160
722047.82	4294258.302	7317	21-Dec-13	ALEX122113.SSF	573039.7561	40161
722046.965	4294259.097	7259	21-Dec-13	ALEX122113.SSF	573040.7429	40162
722046.167	4294259.963	6345	21-Dec-13	ALEX122113.SSF	573041.8611	40163
722045.588	4294260.714	6836	21-Dec-13	ALEX122113.SSF	573042.7871	40164
722044.864	4294261.562	6629	21-Dec-13	ALEX122113.SSF	573043.804	40165
722044.152	4294262.304	6487	21-Dec-13	ALEX122113.SSF	573044.8201	40166

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722043.378	4294263.014	5971	21-Dec-13	ALEX122113.SSF	573045.8149	40167
722042.634	4294263.584	6186	21-Dec-13	ALEX122113.SSF	573046.6699	40168
722041.753	4294264.409	6174	21-Dec-13	ALEX122113.SSF	573047.832	40169
722041.245	4294265.075	6043	21-Dec-13	ALEX122113.SSF	573048.6699	40170
722040.489	4294265.961	6361	21-Dec-13	ALEX122113.SSF	573049.7939	40171
722039.743	4294266.676	6210	21-Dec-13	ALEX122113.SSF	573050.7891	40172
722039.006	4294267.302	6532	21-Dec-13	ALEX122113.SSF	573051.811	40173
722038.408	4294268.041	6583	21-Dec-13	ALEX122113.SSF	573052.79	40174
722037.769	4294268.96	5543	21-Dec-13	ALEX122113.SSF	573053.8379	40175
722037.194	4294269.703	6073	21-Dec-13	ALEX122113.SSF	573054.7209	40176
722036.359	4294270.62	6027	21-Dec-13	ALEX122113.SSF	573055.8621	40177
722035.708	4294271.225	5917	21-Dec-13	ALEX122113.SSF	573056.7209	40178
722034.931	4294272.017	6554	21-Dec-13	ALEX122113.SSF	573057.7959	40179
722034.356	4294272.733	6528	21-Dec-13	ALEX122113.SSF	573058.7	40180
722033.614	4294273.553	6552	21-Dec-13	ALEX122113.SSF	573059.8169	40181
722032.939	4294274.197	6528	21-Dec-13	ALEX122113.SSF	573060.7661	40182
722032.273	4294274.964	6342	21-Dec-13	ALEX122113.SSF	573061.811	40183
722031.716	4294275.751	6025	21-Dec-13	ALEX122113.SSF	573062.7241	40184
722031.028	4294276.617	5804	21-Dec-13	ALEX122113.SSF	573063.8269	40185
722030.39	4294277.217	6331	21-Dec-13	ALEX122113.SSF	573064.751	40186
722029.672	4294277.877	6442	21-Dec-13	ALEX122113.SSF	573065.822	40187
722029.156	4294278.575	6110	21-Dec-13	ALEX122113.SSF	573066.7729	40188
722028.596	4294279.346	5997	21-Dec-13	ALEX122113.SSF	573067.77	40189
722028.012	4294279.995	5916	21-Dec-13	ALEX122113.SSF	573068.729	40190
722027.337	4294280.744	5585	21-Dec-13	ALEX122113.SSF	573069.8479	40191
722026.942	4294281.455	5729	21-Dec-13	ALEX122113.SSF	573070.707	40192
722026.374	4294282.387	6573	21-Dec-13	ALEX122113.SSF	573071.8091	40193
722025.79	4294283.017	6743	21-Dec-13	ALEX122113.SSF	573072.7429	40194
722025.443	4294283.359	7265	21-Dec-13	ALEX122113.SSF	573073.76	40195
722025.458	4294283.339	6346	21-Dec-13	ALEX122113.SSF	573074.7439	40196
722025.472	4294283.271	6776	21-Dec-13	ALEX122113.SSF	573075.7241	40197
722025.473	4294283.204	5684	21-Dec-13	ALEX122113.SSF	573076.676	40198
722025.486	4294283.133	6121	21-Dec-13	ALEX122113.SSF	573077.728	40199
722025.392	4294283.271	6900	21-Dec-13	ALEX122113.SSF	573078.678	40200
722024.982	4294283.679	6495	21-Dec-13	ALEX122113.SSF	573079.728	40201
722024.351	4294284.193	6080	21-Dec-13	ALEX122113.SSF	573080.7209	40202
722023.755	4294284.796	7460	21-Dec-13	ALEX122113.SSF	573081.7759	40203
722023.272	4294285.385	6785	21-Dec-13	ALEX122113.SSF	573082.658	40204
722022.62	4294286.161	6024	21-Dec-13	ALEX122113.SSF	573083.7351	40205
722021.96	4294286.736	6459	21-Dec-13	ALEX122113.SSF	573084.6831	40206
722021.241	4294287.353	6624	21-Dec-13	ALEX122113.SSF	573085.824	40207
722020.777	4294288.059	6024	21-Dec-13	ALEX122113.SSF	573086.7781	40208
722020.214	4294288.847	6609	21-Dec-13	ALEX122113.SSF	573087.8369	40209
722019.623	4294289.365	6542	21-Dec-13	ALEX122113.SSF	573088.7241	40210
722018.962	4294290.037	6465	21-Dec-13	ALEX122113.SSF	573089.7739	40211
722018.751	4294290.46	6369	21-Dec-13	ALEX122113.SSF	573090.6421	40212
722018.679	4294290.604	6752	21-Dec-13	ALEX122113.SSF	573091.7529	40213

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722018.562	4294290.81	6878	21-Dec-13	ALEX122113.SSF	573092.6489	40214
722018.139	4294291.412	6579	21-Dec-13	ALEX122113.SSF	573093.7632	40215
722017.702	4294292.069	6805	21-Dec-13	ALEX122113.SSF	573094.7002	40216
722017.414	4294292.944	7191	21-Dec-13	ALEX122113.SSF	573095.7861	40217
722017.138	4294293.69	8247	21-Dec-13	ALEX122113.SSF	573096.6538	40218
722016.581	4294294.709	8542	21-Dec-13	ALEX122113.SSF	573097.7959	40219
722016.034	4294295.464	8315	21-Dec-13	ALEX122113.SSF	573098.6899	40220
722015.355	4294296.345	9218	21-Dec-13	ALEX122113.SSF	573099.7759	40221
722014.877	4294297.157	9084	21-Dec-13	ALEX122113.SSF	573100.7422	40222
722014.419	4294297.972	8601	21-Dec-13	ALEX122113.SSF	573101.8101	40223
722014.141	4294298.385	8810	21-Dec-13	ALEX122113.SSF	573102.7642	40224
722014.044	4294298.476	10152	21-Dec-13	ALEX122113.SSF	573103.8159	40225
722014.068	4294298.491	8868	21-Dec-13	ALEX122113.SSF	573104.7598	40226
722013.982	4294298.499	8757	21-Dec-13	ALEX122113.SSF	573105.7651	40227
722013.708	4294298.696	9359	21-Dec-13	ALEX122113.SSF	573106.6909	40228
722013.251	4294299.261	9540	21-Dec-13	ALEX122113.SSF	573107.7729	40229
722012.802	4294299.705	8775	21-Dec-13	ALEX122113.SSF	573108.689	40230
722012.253	4294299.885	9633	21-Dec-13	ALEX122113.SSF	573109.731	40231
722011.702	4294300.04	9638	21-Dec-13	ALEX122113.SSF	573110.7119	40232
722011.283	4294300.667	8739	21-Dec-13	ALEX122113.SSF	573111.7148	40233
722011.113	4294301.529	9655	21-Dec-13	ALEX122113.SSF	573112.666	40234
722010.945	4294302.617	9853	21-Dec-13	ALEX122113.SSF	573113.793	40235
722010.645	4294303.401	9633	21-Dec-13	ALEX122113.SSF	573114.6411	40236
722010.154	4294304.253	10208	21-Dec-13	ALEX122113.SSF	573115.6899	40237
722009.738	4294305.033	8942	21-Dec-13	ALEX122113.SSF	573116.6401	40238
722009.359	4294305.985	10245	21-Dec-13	ALEX122113.SSF	573117.7202	40239
722008.942	4294306.836	10211	21-Dec-13	ALEX122113.SSF	573118.6992	40240
722008.48	4294307.672	9513	21-Dec-13	ALEX122113.SSF	573119.7441	40241
722008.174	4294308.493	8918	21-Dec-13	ALEX122113.SSF	573120.689	40242
722007.681	4294309.193	9429	21-Dec-13	ALEX122113.SSF	573121.7549	40243
722006.906	4294309.265	9767	21-Dec-13	ALEX122113.SSF	573122.7378	40244
722006.007	4294308.956	8861	21-Dec-13	ALEX122113.SSF	573123.7891	40245
722005.122	4294308.705	9475	21-Dec-13	ALEX122113.SSF	573124.7788	40246
722004.24	4294308.492	9929	21-Dec-13	ALEX122113.SSF	573125.7588	40247
722003.836	4294308.131	8932	21-Dec-13	ALEX122113.SSF	573126.6719	40248
722003.849	4294307.831	8743	21-Dec-13	ALEX122113.SSF	573127.7891	40249
722003.917	4294307.803	9445	21-Dec-13	ALEX122113.SSF	573128.6992	40250
722004.089	4294307.76	8991	21-Dec-13	ALEX122113.SSF	573129.7598	40251
722004.34	4294307.623	8847	21-Dec-13	ALEX122113.SSF	573130.6709	40252
722004.775	4294307.251	9532	21-Dec-13	ALEX122113.SSF	573131.7832	40253
722005.236	4294306.705	9643	21-Dec-13	ALEX122113.SSF	573132.686	40254
722005.93	4294305.908	8740	21-Dec-13	ALEX122113.SSF	573133.8481	40255
722006.484	4294305.378	8695	21-Dec-13	ALEX122113.SSF	573134.6621	40256
722006.941	4294304.736	9283	21-Dec-13	ALEX122113.SSF	573135.7129	40257
722007.329	4294304.271	9251	21-Dec-13	ALEX122113.SSF	573136.624	40258
722007.937	4294303.788	8702	21-Dec-13	ALEX122113.SSF	573137.7231	40259
722008.457	4294303.222	9315	21-Dec-13	ALEX122113.SSF	573138.6602	40260

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722009.091	4294302.465	9258	21-Dec-13	ALEX122113.SSF	573139.7378	40261
722009.554	4294301.883	9454	21-Dec-13	ALEX122113.SSF	573140.6621	40262
722010.033	4294301.195	9833	21-Dec-13	ALEX122113.SSF	573141.7051	40263
722010.519	4294300.545	8608	21-Dec-13	ALEX122113.SSF	573142.6621	40264
722011.131	4294299.986	9442	21-Dec-13	ALEX122113.SSF	573143.7349	40265
722011.698	4294299.416	8360	21-Dec-13	ALEX122113.SSF	573144.6519	40266
722012.332	4294298.612	10040	21-Dec-13	ALEX122113.SSF	573145.7559	40267
722012.828	4294298.042	10160	21-Dec-13	ALEX122113.SSF	573146.6802	40268
722013.529	4294297.235	9590	21-Dec-13	ALEX122113.SSF	573147.771	40269
722014.135	4294296.429	9987	21-Dec-13	ALEX122113.SSF	573148.7178	40270
722014.849	4294295.614	8017	21-Dec-13	ALEX122113.SSF	573149.749	40271
722015.43	4294295.013	7764	21-Dec-13	ALEX122113.SSF	573150.5991	40272
722016.214	4294294.121	7731	21-Dec-13	ALEX122113.SSF	573151.7412	40273
722016.721	4294293.419	6762	21-Dec-13	ALEX122113.SSF	573152.6162	40274
722017.344	4294292.604	7150	21-Dec-13	ALEX122113.SSF	573153.7358	40275
722017.813	4294291.943	7937	21-Dec-13	ALEX122113.SSF	573154.6738	40276
722018.398	4294291.102	6994	21-Dec-13	ALEX122113.SSF	573155.7808	40277
722018.953	4294290.481	6728	21-Dec-13	ALEX122113.SSF	573156.6572	40278
722019.742	4294289.76	6272	21-Dec-13	ALEX122113.SSF	573157.7881	40279
722020.208	4294289.231	6878	21-Dec-13	ALEX122113.SSF	573158.6538	40280
722020.795	4294288.489	7539	21-Dec-13	ALEX122113.SSF	573159.7061	40281
722021.174	4294287.953	6145	21-Dec-13	ALEX122113.SSF	573160.7261	40282
722021.232	4294287.839	6666	21-Dec-13	ALEX122113.SSF	573161.791	40283
722021.283	4294287.859	6646	21-Dec-13	ALEX122113.SSF	573162.7222	40284
722021.298	4294287.842	5681	21-Dec-13	ALEX122113.SSF	573163.7319	40285
722021.245	4294287.814	6083	21-Dec-13	ALEX122113.SSF	573164.7471	40286
722021.206	4294287.805	7220	21-Dec-13	ALEX122113.SSF	573165.748	40287
722021.178	4294287.804	7205	21-Dec-13	ALEX122113.SSF	573166.7002	40288
722021.054	4294287.722	6781	21-Dec-13	ALEX122113.SSF	573167.7651	40289
722021.116	4294287.379	7035	21-Dec-13	ALEX122113.SSF	573168.6938	40290
722021.502	4294286.839	6828	21-Dec-13	ALEX122113.SSF	573169.71	40291
722021.88	4294286.331	6627	21-Dec-13	ALEX122113.SSF	573170.6909	40292
722022.403	4294285.649	7297	21-Dec-13	ALEX122113.SSF	573171.7192	40293
722022.84	4294285.056	6054	21-Dec-13	ALEX122113.SSF	573172.6689	40294
722023.41	4294284.406	6290	21-Dec-13	ALEX122113.SSF	573173.772	40295
722024.013	4294283.772	5748	21-Dec-13	ALEX122113.SSF	573174.6992	40296
722024.727	4294282.9	5873	21-Dec-13	ALEX122113.SSF	573175.7822	40297
722025.383	4294282.089	6183	21-Dec-13	ALEX122113.SSF	573176.7368	40298
722026.088	4294281.353	5146	21-Dec-13	ALEX122113.SSF	573177.8242	40299
722026.735	4294280.797	6014	21-Dec-13	ALEX122113.SSF	573178.667	40300
722027.59	4294280.056	6470	21-Dec-13	ALEX122113.SSF	573179.7832	40301
722028.212	4294279.484	6297	21-Dec-13	ALEX122113.SSF	573180.6738	40302
722028.887	4294278.705	6734	21-Dec-13	ALEX122113.SSF	573181.7202	40303
722029.459	4294277.983	6213	21-Dec-13	ALEX122113.SSF	573182.6382	40304
722030.123	4294277.257	6473	21-Dec-13	ALEX122113.SSF	573183.7349	40305
722030.757	4294276.577	6388	21-Dec-13	ALEX122113.SSF	573184.6499	40306
722031.413	4294275.764	5827	21-Dec-13	ALEX122113.SSF	573185.7808	40307

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722032.007	4294275.166	6400	21-Dec-13	ALEX122113.SSF	573186.731	40308
722032.802	4294274.465	5880	21-Dec-13	ALEX122113.SSF	573187.8208	40309
722033.367	4294273.849	5962	21-Dec-13	ALEX122113.SSF	573188.6689	40310
722034.005	4294273	5610	21-Dec-13	ALEX122113.SSF	573189.7378	40311
722034.526	4294272.293	5706	21-Dec-13	ALEX122113.SSF	573190.6538	40312
722035.15	4294271.499	6112	21-Dec-13	ALEX122113.SSF	573191.7471	40313
722035.635	4294270.805	6478	21-Dec-13	ALEX122113.SSF	573192.6831	40314
722036.22	4294269.993	6179	21-Dec-13	ALEX122113.SSF	573193.7871	40315
722036.619	4294269.396	7005	21-Dec-13	ALEX122113.SSF	573194.7261	40316
722037.136	4294268.692	6491	21-Dec-13	ALEX122113.SSF	573195.731	40317
722037.724	4294268.011	6662	21-Dec-13	ALEX122113.SSF	573196.6489	40318
722038.456	4294267.28	6075	21-Dec-13	ALEX122113.SSF	573197.7529	40319
722039.032	4294266.538	6798	21-Dec-13	ALEX122113.SSF	573198.7451	40320
722039.646	4294265.703	6679	21-Dec-13	ALEX122113.SSF	573199.7808	40321
722040.262	4294265.102	7640	21-Dec-13	ALEX122113.SSF	573200.6489	40322
722041.042	4294264.441	6920	21-Dec-13	ALEX122113.SSF	573201.7549	40323
722041.629	4294263.854	6920	21-Dec-13	ALEX122113.SSF	573202.605	40324
722042.399	4294263.116	6080	21-Dec-13	ALEX122113.SSF	573203.6768	40325
722043.049	4294262.582	5660	21-Dec-13	ALEX122113.SSF	573204.5898	40326
722043.859	4294261.792	6011	21-Dec-13	ALEX122113.SSF	573205.7651	40327
722044.373	4294261.135	6409	21-Dec-13	ALEX122113.SSF	573206.6548	40328
722045.082	4294260.424	6213	21-Dec-13	ALEX122113.SSF	573207.7119	40329
722045.719	4294259.862	5903	21-Dec-13	ALEX122113.SSF	573208.7012	40330
722046.405	4294259.216	6338	21-Dec-13	ALEX122113.SSF	573209.708	40331
722047.1	4294258.504	7284	21-Dec-13	ALEX122113.SSF	573210.6802	40332
722047.906	4294257.775	7071	21-Dec-13	ALEX122113.SSF	573211.6748	40333
722048.647	4294257.211	6567	21-Dec-13	ALEX122113.SSF	573212.5908	40334
722049.421	4294256.621	7672	21-Dec-13	ALEX122113.SSF	573213.6851	40335
722050.046	4294256.125	7318	21-Dec-13	ALEX122113.SSF	573214.6108	40336
722050.653	4294255.611	6389	21-Dec-13	ALEX122113.SSF	573215.749	40337
722051.123	4294255.097	5767	21-Dec-13	ALEX122113.SSF	573216.6592	40338
722051.771	4294254.427	6341	21-Dec-13	ALEX122113.SSF	573217.7598	40339
722052.334	4294253.946	6083	21-Dec-13	ALEX122113.SSF	573218.6489	40340
722052.992	4294253.262	6290	21-Dec-13	ALEX122113.SSF	573219.77	40341
722053.444	4294252.694	6222	21-Dec-13	ALEX122113.SSF	573220.6328	40342
722054.02	4294252.038	7045	21-Dec-13	ALEX122113.SSF	573221.7231	40343
722054.505	4294251.517	6651	21-Dec-13	ALEX122113.SSF	573222.6289	40344
722055.109	4294250.751	6372	21-Dec-13	ALEX122113.SSF	573223.7822	40345
722055.266	4294250.124	6183	21-Dec-13	ALEX122113.SSF	573224.6948	40346
722055.023	4294249.368	6615	21-Dec-13	ALEX122113.SSF	573225.75	40347
722054.451	4294248.836	7053	21-Dec-13	ALEX122113.SSF	573226.708	40348
722053.94	4294248.427	6683	21-Dec-13	ALEX122113.SSF	573227.7461	40349
722053.801	4294248.309	7161	21-Dec-13	ALEX122113.SSF	573228.647	40350
722053.705	4294248.296	6410	21-Dec-13	ALEX122113.SSF	573229.8018	40351
722053.594	4294248.328	7332	21-Dec-13	ALEX122113.SSF	573230.7192	40352
722053.292	4294248.71	6813	21-Dec-13	ALEX122113.SSF	573231.73	40353
722052.769	4294249.287	6323	21-Dec-13	ALEX122113.SSF	573232.6582	40354

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722052.042	4294249.878	5360	21-Dec-13	ALEX122113.SSF	573233.7778	40355
722051.527	4294250.359	5415	21-Dec-13	ALEX122113.SSF	573234.7051	40356
722051.002	4294250.981	6113	21-Dec-13	ALEX122113.SSF	573235.7998	40357
722050.505	4294251.512	6358	21-Dec-13	ALEX122113.SSF	573236.687	40358
722049.926	4294252.055	6449	21-Dec-13	ALEX122113.SSF	573237.749	40359
722049.414	4294252.641	6772	21-Dec-13	ALEX122113.SSF	573238.71	40360
722048.849	4294253.34	6823	21-Dec-13	ALEX122113.SSF	573239.751	40361
722048.289	4294253.874	6445	21-Dec-13	ALEX122113.SSF	573240.6621	40362
722047.489	4294254.436	7071	21-Dec-13	ALEX122113.SSF	573241.7861	40363
722046.877	4294254.976	7527	21-Dec-13	ALEX122113.SSF	573242.6489	40364
722046.206	4294255.703	7612	21-Dec-13	ALEX122113.SSF	573243.7612	40365
722045.654	4294256.246	6283	21-Dec-13	ALEX122113.SSF	573244.6489	40366
722044.956	4294256.976	6670	21-Dec-13	ALEX122113.SSF	573245.793	40367
722044.449	4294257.587	6347	21-Dec-13	ALEX122113.SSF	573246.6802	40368
722043.719	4294258.375	6085	21-Dec-13	ALEX122113.SSF	573247.8579	40369
722043.248	4294258.877	6051	21-Dec-13	ALEX122113.SSF	573248.7168	40370
722042.615	4294259.587	7264	21-Dec-13	ALEX122113.SSF	573249.8188	40371
722042.161	4294260.193	6406	21-Dec-13	ALEX122113.SSF	573250.6509	40372
722041.539	4294260.911	6581	21-Dec-13	ALEX122113.SSF	573251.6738	40373
722040.913	4294261.418	7855	21-Dec-13	ALEX122113.SSF	573252.5942	40374
722040.214	4294262.054	7694	21-Dec-13	ALEX122113.SSF	573253.6792	40375
722039.706	4294262.642	6543	21-Dec-13	ALEX122113.SSF	573254.585	40376
722039.011	4294263.307	6795	21-Dec-13	ALEX122113.SSF	573255.7349	40377
722038.445	4294263.861	7188	21-Dec-13	ALEX122113.SSF	573256.6318	40378
722037.864	4294264.638	6867	21-Dec-13	ALEX122113.SSF	573257.7432	40379
722037.303	4294265.227	6853	21-Dec-13	ALEX122113.SSF	573258.688	40380
722036.76	4294265.695	7006	21-Dec-13	ALEX122113.SSF	573259.689	40381
722036.303	4294266.295	6611	21-Dec-13	ALEX122113.SSF	573260.646	40382
722035.685	4294267.062	6903	21-Dec-13	ALEX122113.SSF	573261.77	40383
722035.172	4294267.531	7725	21-Dec-13	ALEX122113.SSF	573262.6382	40384
722034.481	4294268.238	6281	21-Dec-13	ALEX122113.SSF	573263.7598	40385
722033.971	4294268.892	5680	21-Dec-13	ALEX122113.SSF	573264.6792	40386
722033.364	4294269.607	5932	21-Dec-13	ALEX122113.SSF	573265.688	40387
722032.826	4294270.244	6169	21-Dec-13	ALEX122113.SSF	573266.6519	40388
722032.34	4294270.989	6552	21-Dec-13	ALEX122113.SSF	573267.6948	40389
722031.818	4294271.688	6147	21-Dec-13	ALEX122113.SSF	573268.6548	40390
722031.068	4294272.424	6666	21-Dec-13	ALEX122113.SSF	573269.7578	40391
722030.437	4294272.994	5935	21-Dec-13	ALEX122113.SSF	573270.6841	40392
722029.835	4294273.733	5588	21-Dec-13	ALEX122113.SSF	573271.749	40393
722029.33	4294274.431	6031	21-Dec-13	ALEX122113.SSF	573272.6211	40394
722028.813	4294275.054	5516	21-Dec-13	ALEX122113.SSF	573273.6738	40395
722028.563	4294275.205	5675	21-Dec-13	ALEX122113.SSF	573274.5889	40396
722028.481	4294275.194	5690	21-Dec-13	ALEX122113.SSF	573275.7451	40397
722028.529	4294275.148	5608	21-Dec-13	ALEX122113.SSF	573276.645	40398
722028.588	4294275.127	6042	21-Dec-13	ALEX122113.SSF	573277.7612	40399
722028.605	4294275.125	6106	21-Dec-13	ALEX122113.SSF	573278.6699	40400
722028.638	4294275.137	6176	21-Dec-13	ALEX122113.SSF	573279.7891	40401

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722028.572	4294275.24	5616	21-Dec-13	ALEX122113.SSF	573280.6548	40402
722028.313	4294275.521	5656	21-Dec-13	ALEX122113.SSF	573281.7061	40403
722028.165	4294275.75	5401	21-Dec-13	ALEX122113.SSF	573282.6509	40404
722028.155	4294275.848	5866	21-Dec-13	ALEX122113.SSF	573283.793	40405
722027.954	4294276.019	5864	21-Dec-13	ALEX122113.SSF	573284.6362	40406
722027.433	4294276.494	6224	21-Dec-13	ALEX122113.SSF	573285.7412	40407
722026.922	4294277.05	5483	21-Dec-13	ALEX122113.SSF	573286.6499	40408
722026.35	4294277.784	5844	21-Dec-13	ALEX122113.SSF	573287.6938	40409
722025.813	4294278.422	5717	21-Dec-13	ALEX122113.SSF	573288.625	40410
722025.242	4294279.066	5556	21-Dec-13	ALEX122113.SSF	573289.7271	40411
722024.779	4294279.714	5847	21-Dec-13	ALEX122113.SSF	573290.6582	40412
722024.24	4294280.525	5719	21-Dec-13	ALEX122113.SSF	573291.771	40413
722023.679	4294281.126	5842	21-Dec-13	ALEX122113.SSF	573292.7119	40414
722023.056	4294281.742	6158	21-Dec-13	ALEX122113.SSF	573293.7412	40415
722022.633	4294282.452	5759	21-Dec-13	ALEX122113.SSF	573294.6611	40416
722022.131	4294283.291	5662	21-Dec-13	ALEX122113.SSF	573295.749	40417
722021.689	4294283.778	6608	21-Dec-13	ALEX122113.SSF	573296.5688	40418
722021.047	4294284.475	6872	21-Dec-13	ALEX122113.SSF	573297.6592	40419
722020.537	4294285.163	6938	21-Dec-13	ALEX122113.SSF	573298.5991	40420
722019.829	4294285.958	6174	21-Dec-13	ALEX122113.SSF	573299.7349	40421
722019.23	4294286.507	5645	21-Dec-13	ALEX122113.SSF	573300.645	40422
722018.55	4294287.277	6040	21-Dec-13	ALEX122113.SSF	573301.687	40423
722017.928	4294288.069	6765	21-Dec-13	ALEX122113.SSF	573302.6089	40424
722017.191	4294288.978	7601	21-Dec-13	ALEX122113.SSF	573303.7178	40425
722016.632	4294289.512	7150	21-Dec-13	ALEX122113.SSF	573304.5508	40426
722015.799	4294290.253	7697	21-Dec-13	ALEX122113.SSF	573305.7622	40427
722015.221	4294290.891	7028	21-Dec-13	ALEX122113.SSF	573306.6792	40428
722014.597	4294291.823	7673	21-Dec-13	ALEX122113.SSF	573307.7788	40429
722014.086	4294292.666	7138	21-Dec-13	ALEX122113.SSF	573308.708	40430
722013.322	4294293.437	7814	21-Dec-13	ALEX122113.SSF	573309.75	40431
722012.611	4294294.052	8073	21-Dec-13	ALEX122113.SSF	573310.666	40432
722012	4294294.883	8588	21-Dec-13	ALEX122113.SSF	573311.688	40433
722011.562	4294295.641	8957	21-Dec-13	ALEX122113.SSF	573312.606	40434
722010.988	4294296.458	8089	21-Dec-13	ALEX122113.SSF	573313.7339	40435
722010.494	4294297.073	8352	21-Dec-13	ALEX122113.SSF	573314.6431	40436
722009.999	4294297.913	7878	21-Dec-13	ALEX122113.SSF	573315.731	40437
722009.617	4294298.667	9019	21-Dec-13	ALEX122113.SSF	573316.6382	40438
722009.077	4294299.538	8434	21-Dec-13	ALEX122113.SSF	573317.7598	40439
722008.547	4294300.128	10238	21-Dec-13	ALEX122113.SSF	573318.6631	40440
722007.969	4294300.76	9999	21-Dec-13	ALEX122113.SSF	573319.687	40441
722007.565	4294301.336	10090	21-Dec-13	ALEX122113.SSF	573320.6548	40442
722007.118	4294301.906	9422	21-Dec-13	ALEX122113.SSF	573321.6758	40443
722006.587	4294302.519	9435	21-Dec-13	ALEX122113.SSF	573322.6968	40444
722006.173	4294303.2	9978	21-Dec-13	ALEX122113.SSF	573323.7329	40445
722005.837	4294303.848	9274	21-Dec-13	ALEX122113.SSF	573324.666	40446
722005.393	4294304.597	9158	21-Dec-13	ALEX122113.SSF	573325.6992	40447
722005.124	4294305.327	9189	21-Dec-13	ALEX122113.SSF	573326.6328	40448

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722004.932	4294305.975	9527	21-Dec-13	ALEX122113.SSF	573327.6548	40449
722004.677	4294306.303	9791	21-Dec-13	ALEX122113.SSF	573328.6309	40450
722004.391	4294306.528	8808	21-Dec-13	ALEX122113.SSF	573329.6748	40451
722004.079	4294307.003	9222	21-Dec-13	ALEX122113.SSF	573330.6719	40452
722003.657	4294307.646	11215	21-Dec-13	ALEX122113.SSF	573331.7231	40453
722003.197	4294308.03	9284	21-Dec-13	ALEX122113.SSF	573332.6411	40454
722002.783	4294308.372	8381	21-Dec-13	ALEX122113.SSF	573333.7612	40455
722002.714	4294308.557	8515	21-Dec-13	ALEX122113.SSF	573334.6348	40456
722002.693	4294308.707	9568	21-Dec-13	ALEX122113.SSF	573335.7339	40457
722002.688	4294308.734	9142	21-Dec-13	ALEX122113.SSF	573336.644	40458
722002.702	4294308.712	10085	21-Dec-13	ALEX122113.SSF	573337.75	40459
722002.747	4294308.691	8701	21-Dec-13	ALEX122113.SSF	573338.6582	40460
722002.81	4294308.711	9435	21-Dec-13	ALEX122113.SSF	573339.7402	40461
722002.735	4294308.632	9138	21-Dec-13	ALEX122113.SSF	573340.6411	40462
722002.543	4294308.509	9454	21-Dec-13	ALEX122113.SSF	573341.6499	40463
722002.467	4294308.572	10103	21-Dec-13	ALEX122113.SSF	573342.6592	40464
722002.46	4294308.693	8976	21-Dec-13	ALEX122113.SSF	573343.7002	40465
722002.406	4294308.704	8934	21-Dec-13	ALEX122113.SSF	573344.6089	40466
722002.339	4294308.693	8713	21-Dec-13	ALEX122113.SSF	573345.751	40467
722002.323	4294308.481	9708	21-Dec-13	ALEX122113.SSF	573346.665	40468
722002.414	4294308.135	9267	21-Dec-13	ALEX122113.SSF	573347.6782	40469
722002.486	4294307.989	10056	21-Dec-13	ALEX122113.SSF	573348.6689	40470
722002.492	4294308.019	9714	21-Dec-13	ALEX122113.SSF	573349.73	40471
722002.547	4294308.066	9268	21-Dec-13	ALEX122113.SSF	573350.6572	40472
722002.578	4294308.066	8617	21-Dec-13	ALEX122113.SSF	573351.6851	40473
722002.524	4294308.046	8094	21-Dec-13	ALEX122113.SSF	573352.582	40474
722002.474	4294308.056	8053	21-Dec-13	ALEX122113.SSF	573353.7212	40475
722002.498	4294308.046	9363	21-Dec-13	ALEX122113.SSF	573354.646	40476
722002.469	4294307.947	9660	21-Dec-13	ALEX122113.SSF	573355.7148	40477
722002.404	4294307.908	9315	21-Dec-13	ALEX122113.SSF	573356.7129	40478
722002.35	4294307.948	8748	21-Dec-13	ALEX122113.SSF	573357.7261	40479
722002.342	4294307.994	9567	21-Dec-13	ALEX122113.SSF	573358.667	40480
722002.42	4294307.989	9592	21-Dec-13	ALEX122113.SSF	573359.6899	40481
722002.609	4294308.019	9418	21-Dec-13	ALEX122113.SSF	573360.6309	40482
722002.799	4294308.075	8294	21-Dec-13	ALEX122113.SSF	573361.6611	40483
722002.835	4294308.098	8673	21-Dec-13	ALEX122113.SSF	573362.5479	40484
722002.785	4294308.172	9038	21-Dec-13	ALEX122113.SSF	573363.6558	40485
722002.784	4294308.204	9849	21-Dec-13	ALEX122113.SSF	573364.5781	40486
722002.793	4294308.21	9632	21-Dec-13	ALEX122113.SSF	573365.6611	40487
722002.766	4294308.235	9518	21-Dec-13	ALEX122113.SSF	573366.6089	40488
722002.725	4294308.243	8859	21-Dec-13	ALEX122113.SSF	573367.6021	40489
722002.692	4294308.229	9385	21-Dec-13	ALEX122113.SSF	573368.5928	40490
722002.677	4294308.199	9276	21-Dec-13	ALEX122113.SSF	573369.6128	40491
722002.667	4294308.153	9099	21-Dec-13	ALEX122113.SSF	573370.5732	40492
722002.64	4294308.124	9684	21-Dec-13	ALEX122113.SSF	573371.623	40493
722002.613	4294308.13	9291	21-Dec-13	ALEX122113.SSF	573372.5962	40494
722002.59	4294308.122	9102	21-Dec-13	ALEX122113.SSF	573373.7109	40495

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722002.58	4294308.09	9175	21-Dec-13	ALEX122113.SSF	573374.6362	40496
722002.626	4294308.044	9524	21-Dec-13	ALEX122113.SSF	573375.6948	40497
722002.685	4294308.054	8471	21-Dec-13	ALEX122113.SSF	573376.6138	40498
722002.81	4294308.07	9137	21-Dec-13	ALEX122113.SSF	573377.6108	40499
722002.803	4294308.196	9244	21-Dec-13	ALEX122113.SSF	573378.5239	40500
722002.641	4294308.272	9211	21-Dec-13	ALEX122113.SSF	573379.6812	40501
722002.517	4294308.206	8722	21-Dec-13	ALEX122113.SSF	573380.6401	40502
722002.448	4294308.117	9890	21-Dec-13	ALEX122113.SSF	573381.6719	40503
722002.446	4294308.038	9432	21-Dec-13	ALEX122113.SSF	573382.5908	40504
722002.534	4294307.978	9678	21-Dec-13	ALEX122113.SSF	573383.7002	40505
722002.685	4294307.936	9799	21-Dec-13	ALEX122113.SSF	573384.5972	40506
722002.762	4294307.986	9379	21-Dec-13	ALEX122113.SSF	573385.6538	40507
722002.777	4294307.938	9095	21-Dec-13	ALEX122113.SSF	573386.5591	40508
722002.86	4294307.819	9443	21-Dec-13	ALEX122113.SSF	573387.7148	40509
722002.934	4294307.834	9801	21-Dec-13	ALEX122113.SSF	573388.623	40510
722003.003	4294307.791	9080	21-Dec-13	ALEX122113.SSF	573389.7031	40511
722003.003	4294307.769	9980	21-Dec-13	ALEX122113.SSF	573390.5508	40512
722002.959	4294307.787	8885	21-Dec-13	ALEX122113.SSF	573391.6958	40513
722002.955	4294307.808	9661	21-Dec-13	ALEX122113.SSF	573392.585	40514
722003.007	4294307.834	8835	21-Dec-13	ALEX122113.SSF	573393.626	40515
722003.073	4294307.866	8448	21-Dec-13	ALEX122113.SSF	573394.5322	40516
722003.092	4294307.938	9312	21-Dec-13	ALEX122113.SSF	573395.687	40517
722003.073	4294307.963	9288	21-Dec-13	ALEX122113.SSF	573396.583	40518
722003.047	4294307.955	8412	21-Dec-13	ALEX122113.SSF	573397.666	40519
722003.033	4294307.933	9153	21-Dec-13	ALEX122113.SSF	573398.606	40520
722002.958	4294307.892	9098	21-Dec-13	ALEX122113.SSF	573399.6299	40521
722002.918	4294307.903	9894	21-Dec-13	ALEX122113.SSF	573400.5649	40522
722002.918	4294307.93	8713	21-Dec-13	ALEX122113.SSF	573401.5952	40523
722002.913	4294307.864	10518	21-Dec-13	ALEX122113.SSF	573402.5278	40524
722002.922	4294307.762	8779	21-Dec-13	ALEX122113.SSF	573403.665	40525
722002.942	4294307.74	8704	21-Dec-13	ALEX122113.SSF	573404.5068	40526
722002.948	4294307.755	10576	21-Dec-13	ALEX122113.SSF	573405.627	40527
722002.906	4294307.787	9694	21-Dec-13	ALEX122113.SSF	573406.5889	40528
722002.849	4294307.75	9143	21-Dec-13	ALEX122113.SSF	573407.6108	40529
722002.82	4294307.683	9126	21-Dec-13	ALEX122113.SSF	573408.5581	40530
722002.785	4294307.67	9541	21-Dec-13	ALEX122113.SSF	573409.604	40531
722002.718	4294307.676	8595	21-Dec-13	ALEX122113.SSF	573410.5708	40532
722002.659	4294307.605	8658	21-Dec-13	ALEX122113.SSF	573411.6719	40533
722002.661	4294307.55	9364	21-Dec-13	ALEX122113.SSF	573412.5718	40534
722002.76	4294307.549	8881	21-Dec-13	ALEX122113.SSF	573413.689	40535
722002.846	4294307.559	8640	21-Dec-13	ALEX122113.SSF	573414.626	40536
722002.899	4294307.561	9030	21-Dec-13	ALEX122113.SSF	573415.7261	40537
722002.919	4294307.576	9367	21-Dec-13	ALEX122113.SSF	573416.5811	40538
722002.948	4294307.616	9332	21-Dec-13	ALEX122113.SSF	573417.7559	40539
722002.957	4294307.647	8513	21-Dec-13	ALEX122113.SSF	573418.6528	40540
722002.962	4294307.667	8788	21-Dec-13	ALEX122113.SSF	573419.729	40541
722002.939	4294307.684	9157	21-Dec-13	ALEX122113.SSF	573420.54	40542

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722002.913	4294307.741	8079	21-Dec-13	ALEX122113.SSF	573421.645	40543
722002.948	4294307.764	8379	21-Dec-13	ALEX122113.SSF	573422.5508	40544
722002.973	4294307.759	10045	21-Dec-13	ALEX122113.SSF	573423.6558	40545
722003.007	4294307.802	9441	21-Dec-13	ALEX122113.SSF	573424.5771	40546
722003.098	4294307.954	8780	21-Dec-13	ALEX122113.SSF	573425.6289	40547
722003.134	4294307.917	9215	21-Dec-13	ALEX122113.SSF	573426.6309	40548
722003.148	4294307.66	9023	21-Dec-13	ALEX122113.SSF	573427.6392	40549
722003.14	4294307.546	9036	21-Dec-13	ALEX122113.SSF	573428.5649	40550
722003.094	4294307.48	9549	21-Dec-13	ALEX122113.SSF	573429.6719	40551
722003.116	4294307.413	8867	21-Dec-13	ALEX122113.SSF	573430.5532	40552
722003.231	4294307.345	9806	21-Dec-13	ALEX122113.SSF	573431.6748	40553
722003.231	4294307.318	8661	21-Dec-13	ALEX122113.SSF	573432.647	40554
722002.977	4294307.418	10385	21-Dec-13	ALEX122113.SSF	573433.6841	40555
722002.658	4294307.631	10186	21-Dec-13	ALEX122113.SSF	573434.5942	40556
722002.317	4294307.794	9416	21-Dec-13	ALEX122113.SSF	573435.6699	40557
722002.189	4294307.821	10348	21-Dec-13	ALEX122113.SSF	573436.5679	40558
722002.305	4294307.997	9993	21-Dec-13	ALEX122113.SSF	573437.6069	40559
722002.083	4294308.446	9188	21-Dec-13	ALEX122113.SSF	573438.5229	40560
722001.343	4294308.919	9017	21-Dec-13	ALEX122113.SSF	573439.6099	40561
722001.032	4294308.983	9574	21-Dec-13	ALEX122113.SSF	573440.6338	40562
722001.05	4294308.76	9413	21-Dec-13	ALEX122113.SSF	573441.6558	40563
722001.033	4294308.525	9883	21-Dec-13	ALEX122113.SSF	573442.5552	40564
722001.011	4294308.351	9671	21-Dec-13	ALEX122113.SSF	573443.6812	40565
722001.062	4294308.464	10487	21-Dec-13	ALEX122113.SSF	573444.605	40566
722001.087	4294308.851	10451	21-Dec-13	ALEX122113.SSF	573445.647	40567
722001.079	4294309.11	9723	21-Dec-13	ALEX122113.SSF	573446.6211	40568
722001.085	4294309.111	9390	21-Dec-13	ALEX122113.SSF	573447.7402	40569
722000.993	4294309.056	9487	21-Dec-13	ALEX122113.SSF	573448.6128	40570
722000.854	4294309.045	9242	21-Dec-13	ALEX122113.SSF	573449.6411	40571
722000.81	4294309.019	9510	21-Dec-13	ALEX122113.SSF	573450.5732	40572
722000.795	4294309.018	9127	21-Dec-13	ALEX122113.SSF	573451.5972	40573
722000.781	4294309.092	9122	21-Dec-13	ALEX122113.SSF	573452.5249	40574
722000.781	4294309.017	9870	21-Dec-13	ALEX122113.SSF	573453.603	40575
722000.858	4294308.742	10027	21-Dec-13	ALEX122113.SSF	573454.5771	40576
722001.014	4294308.452	9437	21-Dec-13	ALEX122113.SSF	573455.5952	40577
722001.188	4294308.273	10178	21-Dec-13	ALEX122113.SSF	573456.5322	40578
722001.384	4294308.204	9972	21-Dec-13	ALEX122113.SSF	573457.6509	40579
722001.434	4294308.25	9423	21-Dec-13	ALEX122113.SSF	573458.5791	40580
722001.396	4294308.303	8475	21-Dec-13	ALEX122113.SSF	573459.6201	40581
722001.362	4294308.316	9408	21-Dec-13	ALEX122113.SSF	573460.5361	40582
722001.365	4294308.298	8382	21-Dec-13	ALEX122113.SSF	573461.6548	40583
722001.397	4294308.258	8571	21-Dec-13	ALEX122113.SSF	573462.6118	40584
722001.419	4294308.271	9876	21-Dec-13	ALEX122113.SSF	573463.7158	40585
722001.424	4294308.309	8649	21-Dec-13	ALEX122113.SSF	573464.6011	40586
722001.427	4294308.315	8852	21-Dec-13	ALEX122113.SSF	573465.667	40587
722001.407	4294308.308	8753	21-Dec-13	ALEX122113.SSF	573466.5801	40588
722001.344	4294308.271	9298	21-Dec-13	ALEX122113.SSF	573467.6958	40589

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722001.342	4294308.22	10064	21-Dec-13	ALEX122113.SSF	573468.5972	40590
722001.344	4294308.202	9566	21-Dec-13	ALEX122113.SSF	573469.7168	40591
722001.292	4294308.217	9081	21-Dec-13	ALEX122113.SSF	573470.5742	40592
722001.228	4294308.163	9500	21-Dec-13	ALEX122113.SSF	573471.6851	40593
722001.222	4294308.038	9755	21-Dec-13	ALEX122113.SSF	573472.6172	40594
722001.228	4294307.919	9188	21-Dec-13	ALEX122113.SSF	573473.6841	40595
722001.24	4294307.972	8807	21-Dec-13	ALEX122113.SSF	573474.5659	40596
722001.275	4294308.102	10001	21-Dec-13	ALEX122113.SSF	573475.5708	40597
722001.315	4294308.178	9940	21-Dec-13	ALEX122113.SSF	573476.5112	40598
722001.363	4294308.201	8875	21-Dec-13	ALEX122113.SSF	573477.6299	40599
722001.367	4294308.224	8758	21-Dec-13	ALEX122113.SSF	573478.5371	40600
722001.297	4294308.261	8399	21-Dec-13	ALEX122113.SSF	573479.6338	40601
722001.257	4294308.269	8940	21-Dec-13	ALEX122113.SSF	573480.6011	40602
722001.274	4294308.232	7995	21-Dec-13	ALEX122113.SSF	573481.709	40603
722001.317	4294308.206	9528	21-Dec-13	ALEX122113.SSF	573482.5708	40604
722001.356	4294308.215	9912	21-Dec-13	ALEX122113.SSF	573483.6572	40605
722001.374	4294308.232	8958	21-Dec-13	ALEX122113.SSF	573484.6108	40606
722001.403	4294308.246	8839	21-Dec-13	ALEX122113.SSF	573485.688	40607
722001.413	4294308.258	9709	21-Dec-13	ALEX122113.SSF	573486.6211	40608
722001.427	4294308.259	9567	21-Dec-13	ALEX122113.SSF	573487.7129	40609
722001.441	4294308.261	10012	21-Dec-13	ALEX122113.SSF	573488.6509	40610
722001.471	4294308.262	10243	21-Dec-13	ALEX122113.SSF	573489.6602	40611
722001.481	4294308.261	9850	21-Dec-13	ALEX122113.SSF	573490.5449	40612
722001.481	4294308.275	9542	21-Dec-13	ALEX122113.SSF	573491.6021	40613
722001.458	4294308.29	9345	21-Dec-13	ALEX122113.SSF	573492.564	40614
722001.356	4294308.31	10076	21-Dec-13	ALEX122113.SSF	573493.6509	40615
722001.231	4294308.315	9389	21-Dec-13	ALEX122113.SSF	573494.5962	40616
722001.177	4294308.332	8527	21-Dec-13	ALEX122113.SSF	573495.6479	40617
722001.183	4294308.362	9151	21-Dec-13	ALEX122113.SSF	573496.6069	40618
722001.215	4294308.375	8677	21-Dec-13	ALEX122113.SSF	573497.6748	40619
722001.271	4294308.39	9489	21-Dec-13	ALEX122113.SSF	573498.6372	40620
722001.31	4294308.4	9692	21-Dec-13	ALEX122113.SSF	573499.6572	40621
722001.34	4294308.38	9353	21-Dec-13	ALEX122113.SSF	573500.519	40622
722001.39	4294308.361	8668	21-Dec-13	ALEX122113.SSF	573501.6152	40623
722001.415	4294308.372	9577	21-Dec-13	ALEX122113.SSF	573502.541	40624
722001.43	4294308.376	8574	21-Dec-13	ALEX122113.SSF	573503.606	40625
722001.435	4294308.368	8473	21-Dec-13	ALEX122113.SSF	573504.54	40626
722001.458	4294308.354	9798	21-Dec-13	ALEX122113.SSF	573505.6641	40627
722001.487	4294308.347	9229	21-Dec-13	ALEX122113.SSF	573506.5952	40628
722001.487	4294308.352	9537	21-Dec-13	ALEX122113.SSF	573507.6362	40629
722001.495	4294308.35	9914	21-Dec-13	ALEX122113.SSF	573508.6099	40630
722001.514	4294308.344	8928	21-Dec-13	ALEX122113.SSF	573509.7148	40631
722001.526	4294308.34	9672	21-Dec-13	ALEX122113.SSF	573510.5791	40632
722001.515	4294308.323	9408	21-Dec-13	ALEX122113.SSF	573511.6519	40633
722001.495	4294308.291	9672	21-Dec-13	ALEX122113.SSF	573512.5762	40634
722001.467	4294308.258	9018	21-Dec-13	ALEX122113.SSF	573513.707	40635
722001.453	4294308.228	10084	21-Dec-13	ALEX122113.SSF	573514.5479	40636

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722001.427	4294308.187	9421	21-Dec-13	ALEX122113.SSF	573515.6929	40637
722001.408	4294308.154	8595	21-Dec-13	ALEX122113.SSF	573516.5801	40638
722001.395	4294308.127	9048	21-Dec-13	ALEX122113.SSF	573517.603	40639
722001.37	4294308.116	10182	21-Dec-13	ALEX122113.SSF	573518.5752	40640
722001.336	4294308.09	9505	21-Dec-13	ALEX122113.SSF	573519.6899	40641
722001.315	4294308.062	9786	21-Dec-13	ALEX122113.SSF	573520.5142	40642
722001.301	4294308.035	9496	21-Dec-13	ALEX122113.SSF	573521.4878	40643
722001.295	4294308.022	8404	21-Dec-13	ALEX122113.SSF	573522.4668	40644
722001.296	4294308.032	9601	21-Dec-13	ALEX122113.SSF	573523.5298	40645
722001.308	4294308.046	10230	21-Dec-13	ALEX122113.SSF	573524.4912	40646
722001.341	4294308.054	9397	21-Dec-13	ALEX122113.SSF	573525.7178	40647
722001.36	4294308.049	9399	21-Dec-13	ALEX122113.SSF	573526.5742	40648
722001.429	4294308.047	9280	21-Dec-13	ALEX122113.SSF	573527.646	40649
722001.461	4294308.049	9610	21-Dec-13	ALEX122113.SSF	573528.5488	40650
722001.467	4294308.059	9152	21-Dec-13	ALEX122113.SSF	573529.6938	40651
722001.483	4294308.07	9608	21-Dec-13	ALEX122113.SSF	573530.5112	40652
722001.451	4294308.023	8582	21-Dec-13	ALEX122113.SSF	573531.6479	40653
722001.409	4294308.002	9045	21-Dec-13	ALEX122113.SSF	573532.561	40654
722001.317	4294308.037	8951	21-Dec-13	ALEX122113.SSF	573533.6401	40655
722001.331	4294307.993	9978	21-Dec-13	ALEX122113.SSF	573534.502	40656
722001.264	4294307.677	8674	21-Dec-13	ALEX122113.SSF	573535.627	40657
722000.887	4294307.259	9668	21-Dec-13	ALEX122113.SSF	573536.562	40658
722000.352	4294306.807	9857	21-Dec-13	ALEX122113.SSF	573537.5742	40659
721999.831	4294306.373	8974	21-Dec-13	ALEX122113.SSF	573538.4912	40660
721999.179	4294305.707	9653	21-Dec-13	ALEX122113.SSF	573539.6152	40661
721998.737	4294305.202	9133	21-Dec-13	ALEX122113.SSF	573540.542	40662
721998.449	4294304.965	9693	21-Dec-13	ALEX122113.SSF	573541.6641	40663
721998.41	4294304.972	9983	21-Dec-13	ALEX122113.SSF	573542.5122	40664
721998.477	4294304.99	9275	21-Dec-13	ALEX122113.SSF	573543.644	40665
721998.631	4294305.017	8529	21-Dec-13	ALEX122113.SSF	573544.4912	40666
721998.785	4294305.001	9542	21-Dec-13	ALEX122113.SSF	573545.6191	40667
721998.724	4294304.87	8985	21-Dec-13	ALEX122113.SSF	573546.605	40668
721998.699	4294304.775	8306	21-Dec-13	ALEX122113.SSF	573547.665	40669
721998.691	4294304.734	9546	21-Dec-13	ALEX122113.SSF	573548.5308	40670
721998.455	4294304.507	10726	21-Dec-13	ALEX122113.SSF	573549.6699	40671
721998.058	4294304.034	10001	21-Dec-13	ALEX122113.SSF	573550.5762	40672
721997.526	4294303.32	10420	21-Dec-13	ALEX122113.SSF	573551.6479	40673
721997.072	4294302.78	9835	21-Dec-13	ALEX122113.SSF	573552.5181	40674
721996.502	4294302.117	9778	21-Dec-13	ALEX122113.SSF	573553.6001	40675
721996.082	4294301.528	10124	21-Dec-13	ALEX122113.SSF	573554.5142	40676
721995.565	4294300.878	9971	21-Dec-13	ALEX122113.SSF	573555.583	40677
721995.04	4294300.396	9752	21-Dec-13	ALEX122113.SSF	573556.4961	40678
721994.448	4294299.741	10688	21-Dec-13	ALEX122113.SSF	573557.5898	40679
721993.97	4294299.045	9572	21-Dec-13	ALEX122113.SSF	573558.5869	40680
721993.435	4294298.412	9743	21-Dec-13	ALEX122113.SSF	573559.6021	40681
721992.878	4294297.81	8585	21-Dec-13	ALEX122113.SSF	573560.5898	40682
721992.386	4294297.119	8716	21-Dec-13	ALEX122113.SSF	573561.6558	40683

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721991.934	4294296.523	9229	21-Dec-13	ALEX122113.SSF	573562.5918	40684
721991.338	4294295.861	8847	21-Dec-13	ALEX122113.SSF	573563.6191	40685
721990.863	4294295.255	10162	21-Dec-13	ALEX122113.SSF	573564.5571	40686
721990.332	4294294.615	8360	21-Dec-13	ALEX122113.SSF	573565.6641	40687
721989.896	4294294.214	9200	21-Dec-13	ALEX122113.SSF	573566.5142	40688
721989.342	4294293.627	8750	21-Dec-13	ALEX122113.SSF	573567.644	40689
721988.867	4294293.084	8937	21-Dec-13	ALEX122113.SSF	573568.5161	40690
721988.176	4294292.445	9464	21-Dec-13	ALEX122113.SSF	573569.6489	40691
721987.74	4294291.982	10016	21-Dec-13	ALEX122113.SSF	573570.498	40692
721987.366	4294291.339	9914	21-Dec-13	ALEX122113.SSF	573571.5791	40693
721987.044	4294290.805	9408	21-Dec-13	ALEX122113.SSF	573572.5518	40694
721986.625	4294290.189	8922	21-Dec-13	ALEX122113.SSF	573573.5552	40695
721986.215	4294289.537	8980	21-Dec-13	ALEX122113.SSF	573574.5151	40696
721985.728	4294288.96	9865	21-Dec-13	ALEX122113.SSF	573575.5952	40697
721985.257	4294288.457	9636	21-Dec-13	ALEX122113.SSF	573576.5278	40698
721984.692	4294287.721	9189	21-Dec-13	ALEX122113.SSF	573577.5771	40699
721984.16	4294287.106	9557	21-Dec-13	ALEX122113.SSF	573578.519	40700
721983.627	4294286.45	8959	21-Dec-13	ALEX122113.SSF	573579.6411	40701
721983.244	4294285.878	9589	21-Dec-13	ALEX122113.SSF	573580.5039	40702
721982.669	4294285.176	9027	21-Dec-13	ALEX122113.SSF	573581.5361	40703
721982.067	4294284.464	7897	21-Dec-13	ALEX122113.SSF	573582.561	40704
721981.605	4294283.727	6864	21-Dec-13	ALEX122113.SSF	573583.5889	40705
721981.196	4294283.091	7446	21-Dec-13	ALEX122113.SSF	573584.498	40706
721980.542	4294282.335	6811	21-Dec-13	ALEX122113.SSF	573585.6382	40707
721980.044	4294281.775	6202	21-Dec-13	ALEX122113.SSF	573586.4819	40708
721979.371	4294281.005	7190	21-Dec-13	ALEX122113.SSF	573587.5869	40709
721978.782	4294280.443	6117	21-Dec-13	ALEX122113.SSF	573588.5288	40710
721978.2	4294279.848	6509	21-Dec-13	ALEX122113.SSF	573589.6318	40711
721977.731	4294279.278	5936	21-Dec-13	ALEX122113.SSF	573590.5361	40712
721977.11	4294278.593	6211	21-Dec-13	ALEX122113.SSF	573591.647	40713
721976.649	4294278.012	6802	21-Dec-13	ALEX122113.SSF	573592.5669	40714
721976.211	4294277.348	6380	21-Dec-13	ALEX122113.SSF	573593.5659	40715
721975.643	4294276.777	6395	21-Dec-13	ALEX122113.SSF	573594.5469	40716
721974.967	4294276.283	6728	21-Dec-13	ALEX122113.SSF	573595.5371	40717
721974.458	4294275.717	6302	21-Dec-13	ALEX122113.SSF	573596.5469	40718
721974.147	4294275.095	7635	21-Dec-13	ALEX122113.SSF	573597.5688	40719
721973.817	4294274.561	6888	21-Dec-13	ALEX122113.SSF	573598.4692	40720
721973.243	4294273.78	8352	21-Dec-13	ALEX122113.SSF	573599.6401	40721
721972.903	4294273.097	8988	21-Dec-13	ALEX122113.SSF	573600.5781	40722
721972.453	4294272.403	8217	21-Dec-13	ALEX122113.SSF	573601.6729	40723
721971.931	4294271.877	8354	21-Dec-13	ALEX122113.SSF	573602.5752	40724
721971.45	4294271.311	8808	21-Dec-13	ALEX122113.SSF	573603.6641	40725
721971.133	4294270.932	8502	21-Dec-13	ALEX122113.SSF	573604.562	40726
721970.646	4294270.443	8065	21-Dec-13	ALEX122113.SSF	573605.6299	40727
721970.342	4294270.153	7416	21-Dec-13	ALEX122113.SSF	573606.4722	40728
721970.134	4294269.988	7704	21-Dec-13	ALEX122113.SSF	573607.6152	40729
721969.853	4294270.099	8886	21-Dec-13	ALEX122113.SSF	573608.5518	40730

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721969.146	4294270.407	8281	21-Dec-13	ALEX122113.SSF	573609.605	40731
721968.66	4294270.491	6480	21-Dec-13	ALEX122113.SSF	573610.5532	40732
721968.582	4294270.511	7140	21-Dec-13	ALEX122113.SSF	573611.5972	40733
721968.594	4294270.668	7245	21-Dec-13	ALEX122113.SSF	573612.4849	40734
721968.651	4294270.863	7691	21-Dec-13	ALEX122113.SSF	573613.626	40735
721968.749	4294270.915	9213	21-Dec-13	ALEX122113.SSF	573614.4858	40736
721968.835	4294270.932	8243	21-Dec-13	ALEX122113.SSF	573615.6431	40737
721968.855	4294270.856	8270	21-Dec-13	ALEX122113.SSF	573616.5918	40738
721968.869	4294270.718	7707	21-Dec-13	ALEX122113.SSF	573617.6182	40739
721968.9	4294270.646	7747	21-Dec-13	ALEX122113.SSF	573618.5742	40740
721968.906	4294270.635	7126	21-Dec-13	ALEX122113.SSF	573619.6211	40741
721968.895	4294270.637	7301	21-Dec-13	ALEX122113.SSF	573620.5181	40742
721968.951	4294270.662	8875	21-Dec-13	ALEX122113.SSF	573621.5952	40743
721969.083	4294270.784	7049	21-Dec-13	ALEX122113.SSF	573622.5371	40744
721969.281	4294270.956	7702	21-Dec-13	ALEX122113.SSF	573623.5771	40745
721969.297	4294271.108	8585	21-Dec-13	ALEX122113.SSF	573624.5781	40746
721969.318	4294271.335	8086	21-Dec-13	ALEX122113.SSF	573625.6362	40747
721969.626	4294271.705	8531	21-Dec-13	ALEX122113.SSF	573626.585	40748
721970.113	4294272.333	8523	21-Dec-13	ALEX122113.SSF	573627.666	40749
721970.58	4294272.959	8190	21-Dec-13	ALEX122113.SSF	573628.541	40750
721971.208	4294273.739	8557	21-Dec-13	ALEX122113.SSF	573629.665	40751
721971.524	4294274.155	8739	21-Dec-13	ALEX122113.SSF	573630.4829	40752
721971.961	4294274.705	8035	21-Dec-13	ALEX122113.SSF	573631.6011	40753
721972.404	4294275.215	7498	21-Dec-13	ALEX122113.SSF	573632.4888	40754
721972.799	4294275.717	7544	21-Dec-13	ALEX122113.SSF	573633.6182	40755
721973.026	4294276.053	6896	21-Dec-13	ALEX122113.SSF	573634.4712	40756
721973.46	4294276.736	7424	21-Dec-13	ALEX122113.SSF	573635.6191	40757
721973.849	4294277.33	7316	21-Dec-13	ALEX122113.SSF	573636.5498	40758
721974.407	4294277.879	6389	21-Dec-13	ALEX122113.SSF	573637.6338	40759
721974.962	4294278.417	6457	21-Dec-13	ALEX122113.SSF	573638.5581	40760
721975.467	4294279.165	6204	21-Dec-13	ALEX122113.SSF	573639.6318	40761
721975.745	4294279.689	6051	21-Dec-13	ALEX122113.SSF	573640.5029	40762
721976.074	4294280.107	6079	21-Dec-13	ALEX122113.SSF	573641.5981	40763
721976.238	4294280.21	6289	21-Dec-13	ALEX122113.SSF	573642.542	40764
721976.26	4294280.268	7692	21-Dec-13	ALEX122113.SSF	573643.6479	40765
721976.257	4294280.317	6153	21-Dec-13	ALEX122113.SSF	573644.5518	40766
721976.249	4294280.288	5832	21-Dec-13	ALEX122113.SSF	573645.5669	40767
721976.247	4294280.248	6582	21-Dec-13	ALEX122113.SSF	573646.458	40768
721976.237	4294280.22	6865	21-Dec-13	ALEX122113.SSF	573647.6138	40769
721976.324	4294280.283	6156	21-Dec-13	ALEX122113.SSF	573648.5142	40770
721976.642	4294280.646	5953	21-Dec-13	ALEX122113.SSF	573649.5859	40771
721977.028	4294281.196	6168	21-Dec-13	ALEX122113.SSF	573650.4839	40772
721977.652	4294281.971	7242	21-Dec-13	ALEX122113.SSF	573651.5972	40773
721978.214	4294282.582	8080	21-Dec-13	ALEX122113.SSF	573652.4482	40774
721978.862	4294283.414	7120	21-Dec-13	ALEX122113.SSF	573653.562	40775
721979.303	4294284.068	7120	21-Dec-13	ALEX122113.SSF	573654.4492	40776
721979.9	4294284.845	7000	21-Dec-13	ALEX122113.SSF	573655.5298	40777

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721980.537	4294285.599	7930	21-Dec-13	ALEX122113.SSF	573656.542	40778
721981.185	4294286.346	8702	21-Dec-13	ALEX122113.SSF	573657.5879	40779
721981.703	4294286.89	9435	21-Dec-13	ALEX122113.SSF	573658.4902	40780
721982.21	4294287.331	8058	21-Dec-13	ALEX122113.SSF	573659.605	40781
721982.368	4294287.341	9574	21-Dec-13	ALEX122113.SSF	573660.5308	40782
721982.35	4294287.223	9083	21-Dec-13	ALEX122113.SSF	573661.6362	40783
721982.308	4294287.406	9831	21-Dec-13	ALEX122113.SSF	573662.5229	40784
721982.402	4294287.935	9477	21-Dec-13	ALEX122113.SSF	573663.603	40785
721982.748	4294288.492	8819	21-Dec-13	ALEX122113.SSF	573664.5059	40786
721983.344	4294289.216	8595	21-Dec-13	ALEX122113.SSF	573665.4951	40787
721983.9	4294289.873	9918	21-Dec-13	ALEX122113.SSF	573666.418	40788
721984.488	4294290.524	9319	21-Dec-13	ALEX122113.SSF	573667.499	40789
721985.026	4294291.146	8959	21-Dec-13	ALEX122113.SSF	573668.459	40790
721985.538	4294291.876	9800	21-Dec-13	ALEX122113.SSF	573669.543	40791
721985.987	4294292.496	8720	21-Dec-13	ALEX122113.SSF	573670.563	40792
721986.569	4294293.248	9170	21-Dec-13	ALEX122113.SSF	573671.6519	40793
721987.005	4294293.792	9252	21-Dec-13	ALEX122113.SSF	573672.5591	40794
721987.462	4294294.316	9543	21-Dec-13	ALEX122113.SSF	573673.5918	40795
721987.916	4294294.893	10365	21-Dec-13	ALEX122113.SSF	573674.519	40796
721988.459	4294295.62	9971	21-Dec-13	ALEX122113.SSF	573675.647	40797
721988.866	4294296.054	9483	21-Dec-13	ALEX122113.SSF	573676.5532	40798
721989.327	4294296.59	9240	21-Dec-13	ALEX122113.SSF	573677.562	40799
721989.856	4294297.272	9810	21-Dec-13	ALEX122113.SSF	573678.5732	40800
721990.408	4294297.842	9772	21-Dec-13	ALEX122113.SSF	573679.5718	40801
721990.81	4294298.261	9973	21-Dec-13	ALEX122113.SSF	573680.4229	40802
721991.391	4294298.996	10203	21-Dec-13	ALEX122113.SSF	573681.5801	40803
721991.948	4294299.657	10050	21-Dec-13	ALEX122113.SSF	573682.502	40804
721992.493	4294300.398	10912	21-Dec-13	ALEX122113.SSF	573683.5952	40805
721992.93	4294301.017	9658	21-Dec-13	ALEX122113.SSF	573684.4888	40806
721993.577	4294301.864	10004	21-Dec-13	ALEX122113.SSF	573685.6309	40807
721993.991	4294302.529	9971	21-Dec-13	ALEX122113.SSF	573686.5308	40808
721994.456	4294303.245	9302	21-Dec-13	ALEX122113.SSF	573687.5532	40809
721994.95	4294303.867	9975	21-Dec-13	ALEX122113.SSF	573688.4868	40810
721995.391	4294304.485	10623	21-Dec-13	ALEX122113.SSF	573689.6011	40811
721995.617	4294304.742	9286	21-Dec-13	ALEX122113.SSF	573690.542	40812
721995.728	4294304.782	8891	21-Dec-13	ALEX122113.SSF	573691.6602	40813
721995.697	4294304.781	8883	21-Dec-13	ALEX122113.SSF	573692.5649	40814
721995.667	4294304.769	9090	21-Dec-13	ALEX122113.SSF	573693.5732	40815
721995.651	4294304.799	9562	21-Dec-13	ALEX122113.SSF	573694.5781	40816
721995.612	4294304.775	9710	21-Dec-13	ALEX122113.SSF	573695.5498	40817
721995.649	4294304.753	9447	21-Dec-13	ALEX122113.SSF	573696.5181	40818
721995.703	4294304.768	9502	21-Dec-13	ALEX122113.SSF	573697.5098	40819
721995.696	4294304.837	8885	21-Dec-13	ALEX122113.SSF	573698.5308	40820
721995.911	4294305.135	9391	21-Dec-13	ALEX122113.SSF	573699.5342	40821
721996.381	4294305.569	8887	21-Dec-13	ALEX122113.SSF	573700.4199	40822
721996.994	4294306.195	9812	21-Dec-13	ALEX122113.SSF	573701.5479	40823
721997.46	4294306.78	9083	21-Dec-13	ALEX122113.SSF	573702.4619	40824

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721998.069	4294307.482	9740	21-Dec-13	ALEX122113.SSF	573703.5088	40825
721998.534	4294307.986	8885	21-Dec-13	ALEX122113.SSF	573704.4199	40826
721999.059	4294308.554	8461	21-Dec-13	ALEX122113.SSF	573705.5459	40827
721999.601	4294309.149	8925	21-Dec-13	ALEX122113.SSF	573706.5591	40828
722000.128	4294309.849	9041	21-Dec-13	ALEX122113.SSF	573707.5698	40829
722000.543	4294310.497	9640	21-Dec-13	ALEX122113.SSF	573708.478	40830
722000.869	4294310.983	9430	21-Dec-13	ALEX122113.SSF	573709.6118	40831
722000.906	4294311.063	9935	21-Dec-13	ALEX122113.SSF	573710.5298	40832
722000.855	4294311.107	9746	21-Dec-13	ALEX122113.SSF	573711.6421	40833
722000.863	4294311.267	9516	21-Dec-13	ALEX122113.SSF	573712.5488	40834
722000.89	4294311.45	9879	21-Dec-13	ALEX122113.SSF	573713.5991	40835
722000.826	4294311.524	8979	21-Dec-13	ALEX122113.SSF	573714.5112	40836
722000.596	4294311.73	8695	21-Dec-13	ALEX122113.SSF	573715.6362	40837
722000.36	4294311.896	10093	21-Dec-13	ALEX122113.SSF	573716.4512	40838
722000.084	4294312.078	10173	21-Dec-13	ALEX122113.SSF	573717.605	40839
722000.032	4294312.163	9413	21-Dec-13	ALEX122113.SSF	573718.5132	40840
722000.025	4294312.192	10093	21-Dec-13	ALEX122113.SSF	573719.5391	40841
721999.94	4294312.197	10623	21-Dec-13	ALEX122113.SSF	573720.4888	40842
721999.839	4294312.193	10185	21-Dec-13	ALEX122113.SSF	573721.6001	40843
721999.819	4294312.213	10106	21-Dec-13	ALEX122113.SSF	573722.48	40844
721999.813	4294312.208	10056	21-Dec-13	ALEX122113.SSF	573723.5488	40845
721999.696	4294311.994	9894	21-Dec-13	ALEX122113.SSF	573724.5171	40846
721999.273	4294311.442	9553	21-Dec-13	ALEX122113.SSF	573725.624	40847
721998.721	4294310.959	11238	21-Dec-13	ALEX122113.SSF	573726.5088	40848
721998.025	4294310.275	10639	21-Dec-13	ALEX122113.SSF	573727.5981	40849
721997.503	4294309.612	9949	21-Dec-13	ALEX122113.SSF	573728.4858	40850
721996.852	4294308.786	9837	21-Dec-13	ALEX122113.SSF	573729.5918	40851
721996.382	4294308.128	9449	21-Dec-13	ALEX122113.SSF	573730.4512	40852
721995.905	4294307.375	9352	21-Dec-13	ALEX122113.SSF	573731.5122	40853
721995.499	4294306.828	10228	21-Dec-13	ALEX122113.SSF	573732.4438	40854
721994.961	4294306.167	9547	21-Dec-13	ALEX122113.SSF	573733.5059	40855
721994.522	4294305.538	10006	21-Dec-13	ALEX122113.SSF	573734.4438	40856
721993.966	4294304.769	9971	21-Dec-13	ALEX122113.SSF	573735.5718	40857
721993.391	4294304.107	9903	21-Dec-13	ALEX122113.SSF	573736.5249	40858
721992.732	4294303.434	9405	21-Dec-13	ALEX122113.SSF	573737.5859	40859
721992.157	4294302.87	9581	21-Dec-13	ALEX122113.SSF	573738.4771	40860
721991.548	4294302.158	10075	21-Dec-13	ALEX122113.SSF	573739.5869	40861
721991.181	4294301.605	9479	21-Dec-13	ALEX122113.SSF	573740.4321	40862
721990.695	4294300.89	8459	21-Dec-13	ALEX122113.SSF	573741.5669	40863
721990.291	4294300.422	9615	21-Dec-13	ALEX122113.SSF	573742.4648	40864
721989.826	4294299.81	11163	21-Dec-13	ALEX122113.SSF	573743.562	40865
721989.474	4294299.295	9780	21-Dec-13	ALEX122113.SSF	573744.4102	40866
721988.933	4294298.641	8535	21-Dec-13	ALEX122113.SSF	573745.563	40867
721988.528	4294298.087	10353	21-Dec-13	ALEX122113.SSF	573746.4229	40868
721988.032	4294297.308	10088	21-Dec-13	ALEX122113.SSF	573747.5449	40869
721987.649	4294296.824	10112	21-Dec-13	ALEX122113.SSF	573748.4541	40870
721987.231	4294296.339	9398	21-Dec-13	ALEX122113.SSF	573749.4692	40871

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721986.759	4294295.738	9549	21-Dec-13	ALEX122113.SSF	573750.4932	40872
721986.223	4294295.109	9167	21-Dec-13	ALEX122113.SSF	573751.5679	40873
721985.831	4294294.525	9611	21-Dec-13	ALEX122113.SSF	573752.5288	40874
721985.498	4294293.888	10083	21-Dec-13	ALEX122113.SSF	573753.5679	40875
721985.082	4294293.371	9870	21-Dec-13	ALEX122113.SSF	573754.5039	40876
721984.436	4294292.762	8437	21-Dec-13	ALEX122113.SSF	573755.543	40877
721983.808	4294292.231	8379	21-Dec-13	ALEX122113.SSF	573756.5039	40878
721983.073	4294291.76	8755	21-Dec-13	ALEX122113.SSF	573757.5342	40879
721982.402	4294291.299	9418	21-Dec-13	ALEX122113.SSF	573758.4771	40880
721981.803	4294290.602	9584	21-Dec-13	ALEX122113.SSF	573759.561	40881
721981.352	4294289.938	8816	21-Dec-13	ALEX122113.SSF	573760.4521	40882
721980.78	4294289.222	9314	21-Dec-13	ALEX122113.SSF	573761.5142	40883
721980.338	4294288.583	8958	21-Dec-13	ALEX122113.SSF	573762.4302	40884
721979.849	4294287.68	9319	21-Dec-13	ALEX122113.SSF	573763.564	40885
721979.424	4294287.012	9889	21-Dec-13	ALEX122113.SSF	573764.3989	40886
721978.758	4294285.973	8832	21-Dec-13	ALEX122113.SSF	573765.543	40887
721978.28	4294285.115	7488	21-Dec-13	ALEX122113.SSF	573766.5308	40888
721977.739	4294284.393	7992	21-Dec-13	ALEX122113.SSF	573767.6211	40889
721977.212	4294283.76	8298	21-Dec-13	ALEX122113.SSF	573768.5059	40890
721976.602	4294282.839	8614	21-Dec-13	ALEX122113.SSF	573769.584	40891
721976.103	4294282.18	8183	21-Dec-13	ALEX122113.SSF	573770.4639	40892
721975.485	4294281.472	7536	21-Dec-13	ALEX122113.SSF	573771.5962	40893
721975.128	4294280.823	6864	21-Dec-13	ALEX122113.SSF	573772.479	40894
721974.714	4294280.01	7386	21-Dec-13	ALEX122113.SSF	573773.5332	40895
721974.199	4294279.376	6586	21-Dec-13	ALEX122113.SSF	573774.5098	40896
721973.648	4294278.742	6866	21-Dec-13	ALEX122113.SSF	573775.522	40897
721973.236	4294278.12	6936	21-Dec-13	ALEX122113.SSF	573776.459	40898
721972.689	4294277.356	6654	21-Dec-13	ALEX122113.SSF	573777.604	40899
721972.212	4294276.799	8593	21-Dec-13	ALEX122113.SSF	573778.4858	40900
721971.765	4294276.161	7968	21-Dec-13	ALEX122113.SSF	573779.5889	40901
721971.418	4294275.566	6942	21-Dec-13	ALEX122113.SSF	573780.5059	40902
721970.851	4294274.791	7525	21-Dec-13	ALEX122113.SSF	573781.6099	40903
721970.395	4294274.206	9171	21-Dec-13	ALEX122113.SSF	573782.4731	40904
721969.793	4294273.517	8682	21-Dec-13	ALEX122113.SSF	573783.5229	40905
721969.227	4294272.952	8020	21-Dec-13	ALEX122113.SSF	573784.5098	40906
721968.768	4294272.4	7945	21-Dec-13	ALEX122113.SSF	573785.5532	40907
721968.261	4294271.861	7926	21-Dec-13	ALEX122113.SSF	573786.5371	40908
721967.768	4294271.398	8101	21-Dec-13	ALEX122113.SSF	573787.521	40909
721967.548	4294271.104	8895	21-Dec-13	ALEX122113.SSF	573788.5249	40910
721967.559	4294271.017	8433	21-Dec-13	ALEX122113.SSF	573789.5298	40911
721967.56	4294271.059	8378	21-Dec-13	ALEX122113.SSF	573790.4658	40912
721967.505	4294271.17	8484	21-Dec-13	ALEX122113.SSF	573791.5879	40913
721967.415	4294271.311	8481	21-Dec-13	ALEX122113.SSF	573792.5171	40914
721967.059	4294271.548	8030	21-Dec-13	ALEX122113.SSF	573793.561	40915
721966.62	4294271.723	8067	21-Dec-13	ALEX122113.SSF	573794.4131	40916
721966.24	4294271.809	7687	21-Dec-13	ALEX122113.SSF	573795.5562	40917
721966.207	4294271.815	8431	21-Dec-13	ALEX122113.SSF	573796.4072	40918

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721966.285	4294271.905	8407	21-Dec-13	ALEX122113.SSF	573797.4941	40919
721966.399	4294272.067	7862	21-Dec-13	ALEX122113.SSF	573798.4482	40920
721966.499	4294272.25	8835	21-Dec-13	ALEX122113.SSF	573799.5479	40921
721966.493	4294272.351	8238	21-Dec-13	ALEX122113.SSF	573800.4268	40922
721966.507	4294272.341	9289	21-Dec-13	ALEX122113.SSF	573801.519	40923
721966.519	4294272.364	8952	21-Dec-13	ALEX122113.SSF	573802.3931	40924
721966.375	4294272.585	7968	21-Dec-13	ALEX122113.SSF	573803.543	40925
721966.224	4294272.721	7422	21-Dec-13	ALEX122113.SSF	573804.4458	40926
721966.147	4294272.781	8065	21-Dec-13	ALEX122113.SSF	573805.543	40927
721966.135	4294272.79	9396	21-Dec-13	ALEX122113.SSF	573806.374	40928
721966.185	4294272.732	8649	21-Dec-13	ALEX122113.SSF	573807.478	40929
721966.268	4294272.697	8822	21-Dec-13	ALEX122113.SSF	573808.4399	40930
721966.496	4294272.863	9615	21-Dec-13	ALEX122113.SSF	573809.481	40931
721966.869	4294273.238	8883	21-Dec-13	ALEX122113.SSF	573810.418	40932
721967.171	4294273.693	9031	21-Dec-13	ALEX122113.SSF	573811.5552	40933
721967.357	4294274.004	9487	21-Dec-13	ALEX122113.SSF	573812.4619	40934
721967.656	4294274.466	8042	21-Dec-13	ALEX122113.SSF	573813.582	40935
721967.899	4294274.723	8070	21-Dec-13	ALEX122113.SSF	573814.416	40936
721968.275	4294274.87	8047	21-Dec-13	ALEX122113.SSF	573815.5479	40937
721968.626	4294275.053	8162	21-Dec-13	ALEX122113.SSF	573816.3892	40938
721969.061	4294275.675	8580	21-Dec-13	ALEX122113.SSF	573817.522	40939
721969.236	4294276.401	7905	21-Dec-13	ALEX122113.SSF	573818.4741	40940
721969.318	4294277.019	8276	21-Dec-13	ALEX122113.SSF	573819.4902	40941
721969.402	4294277.254	9029	21-Dec-13	ALEX122113.SSF	573820.374	40942
721969.516	4294277.444	7717	21-Dec-13	ALEX122113.SSF	573821.479	40943
721969.714	4294277.736	7779	21-Dec-13	ALEX122113.SSF	573822.4331	40944
721970.178	4294278.27	7344	21-Dec-13	ALEX122113.SSF	573823.4731	40945
721970.697	4294278.84	8256	21-Dec-13	ALEX122113.SSF	573824.418	40946
721971.33	4294279.351	7464	21-Dec-13	ALEX122113.SSF	573825.54	40947
721971.885	4294279.85	6516	21-Dec-13	ALEX122113.SSF	573826.4629	40948
721972.438	4294280.582	6849	21-Dec-13	ALEX122113.SSF	573827.5708	40949
721972.905	4294281.188	5943	21-Dec-13	ALEX122113.SSF	573828.4731	40950
721973.541	4294281.829	5983	21-Dec-13	ALEX122113.SSF	573829.4922	40951
721974.039	4294282.446	6515	21-Dec-13	ALEX122113.SSF	573830.4419	40952
721974.528	4294283.217	6758	21-Dec-13	ALEX122113.SSF	573831.5068	40953
721975.057	4294283.872	7089	21-Dec-13	ALEX122113.SSF	573832.4502	40954
721975.586	4294284.502	7442	21-Dec-13	ALEX122113.SSF	573833.438	40955
721975.997	4294285.095	6960	21-Dec-13	ALEX122113.SSF	573834.3618	40956
721976.527	4294285.935	6180	21-Dec-13	ALEX122113.SSF	573835.541	40957
721976.944	4294286.402	7245	21-Dec-13	ALEX122113.SSF	573836.3862	40958
721977.495	4294286.868	7781	21-Dec-13	ALEX122113.SSF	573837.4761	40959
721978.057	4294287.57	8395	21-Dec-13	ALEX122113.SSF	573838.438	40960
721978.667	4294288.413	8459	21-Dec-13	ALEX122113.SSF	573839.543	40961
721979.066	4294288.938	9674	21-Dec-13	ALEX122113.SSF	573840.3882	40962
721979.78	4294289.79	10488	21-Dec-13	ALEX122113.SSF	573841.5029	40963
721980.459	4294290.54	10092	21-Dec-13	ALEX122113.SSF	573842.4121	40964
721980.99	4294291.265	9663	21-Dec-13	ALEX122113.SSF	573843.4409	40965

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721981.347	4294291.997	10275	21-Dec-13	ALEX122113.SSF	573844.4199	40966
721981.794	4294292.666	9678	21-Dec-13	ALEX122113.SSF	573845.5039	40967
721982.156	4294293.245	9439	21-Dec-13	ALEX122113.SSF	573846.417	40968
721982.64	4294294.041	9920	21-Dec-13	ALEX122113.SSF	573847.4951	40969
721983.188	4294294.674	9590	21-Dec-13	ALEX122113.SSF	573848.416	40970
721983.704	4294295.308	9777	21-Dec-13	ALEX122113.SSF	573849.5239	40971
721983.982	4294295.638	10874	21-Dec-13	ALEX122113.SSF	573850.4229	40972
721984.38	4294295.962	10608	21-Dec-13	ALEX122113.SSF	573851.5288	40973
721984.629	4294296.209	9822	21-Dec-13	ALEX122113.SSF	573852.4702	40974
721984.688	4294296.497	9145	21-Dec-13	ALEX122113.SSF	573853.5488	40975
721984.723	4294296.711	9186	21-Dec-13	ALEX122113.SSF	573854.4399	40976
721984.972	4294297.03	9496	21-Dec-13	ALEX122113.SSF	573855.4912	40977
721985.292	4294297.48	9634	21-Dec-13	ALEX122113.SSF	573856.4531	40978
721985.69	4294298.134	10898	21-Dec-13	ALEX122113.SSF	573857.4951	40979
721986.183	4294298.837	10524	21-Dec-13	ALEX122113.SSF	573858.4082	40980
721986.705	4294299.45	9021	21-Dec-13	ALEX122113.SSF	573859.4951	40981
721986.919	4294299.567	10355	21-Dec-13	ALEX122113.SSF	573860.4521	40982
721986.958	4294299.49	9908	21-Dec-13	ALEX122113.SSF	573861.479	40983
721986.934	4294299.447	9527	21-Dec-13	ALEX122113.SSF	573862.416	40984
721986.976	4294299.36	9491	21-Dec-13	ALEX122113.SSF	573863.5649	40985
721987.051	4294299.259	10053	21-Dec-13	ALEX122113.SSF	573864.4829	40986
721987.06	4294299.294	9473	21-Dec-13	ALEX122113.SSF	573865.4561	40987
721987.004	4294299.395	9538	21-Dec-13	ALEX122113.SSF	573866.3672	40988
721986.984	4294299.503	9554	21-Dec-13	ALEX122113.SSF	573867.4702	40989
721987.068	4294299.783	10008	21-Dec-13	ALEX122113.SSF	573868.4038	40990
721987.44	4294300.274	10392	21-Dec-13	ALEX122113.SSF	573869.416	40991
721988.047	4294300.949	10068	21-Dec-13	ALEX122113.SSF	573870.4268	40992
721988.518	4294301.786	11067	21-Dec-13	ALEX122113.SSF	573871.4961	40993
721988.845	4294302.468	9666	21-Dec-13	ALEX122113.SSF	573872.4282	40994
721989.436	4294303.269	9376	21-Dec-13	ALEX122113.SSF	573873.501	40995
721989.96	4294303.914	10654	21-Dec-13	ALEX122113.SSF	573874.3862	40996
721990.595	4294304.697	8933	21-Dec-13	ALEX122113.SSF	573875.5469	40997
721991.158	4294305.335	10003	21-Dec-13	ALEX122113.SSF	573876.4639	40998
721991.742	4294305.878	9041	21-Dec-13	ALEX122113.SSF	573877.5361	40999
721992.258	4294306.241	9190	21-Dec-13	ALEX122113.SSF	573878.4668	41000
721992.919	4294306.851	8957	21-Dec-13	ALEX122113.SSF	573879.502	41001
721993.482	4294307.595	9589	21-Dec-13	ALEX122113.SSF	573880.4502	41002
721994.062	4294308.284	10557	21-Dec-13	ALEX122113.SSF	573881.4849	41003
721994.55	4294308.884	10589	21-Dec-13	ALEX122113.SSF	573882.4541	41004
721995.071	4294309.743	11497	21-Dec-13	ALEX122113.SSF	573883.4858	41005
721995.583	4294310.407	10194	21-Dec-13	ALEX122113.SSF	573884.4209	41006
721996.073	4294310.943	9718	21-Dec-13	ALEX122113.SSF	573885.5601	41007
721996.438	4294311.388	9989	21-Dec-13	ALEX122113.SSF	573886.3892	41008
721997.009	4294312.069	9757	21-Dec-13	ALEX122113.SSF	573887.522	41009
721997.361	4294312.558	10839	21-Dec-13	ALEX122113.SSF	573888.4541	41010
721997.712	4294313.08	9939	21-Dec-13	ALEX122113.SSF	573889.5381	41011
721998.103	4294313.625	8485	21-Dec-13	ALEX122113.SSF	573890.4482	41012

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721998.482	4294314.094	10221	21-Dec-13	ALEX122113.SSF	573891.4609	41013
721998.622	4294314.15	11435	21-Dec-13	ALEX122113.SSF	573892.373	41014
721998.642	4294314.018	9728	21-Dec-13	ALEX122113.SSF	573893.5078	41015
721998.607	4294314.037	8612	21-Dec-13	ALEX122113.SSF	573894.439	41016
721998.427	4294314.212	9203	21-Dec-13	ALEX122113.SSF	573895.5049	41017
721998.21	4294314.445	8540	21-Dec-13	ALEX122113.SSF	573896.4331	41018
721997.939	4294314.633	9815	21-Dec-13	ALEX122113.SSF	573897.5	41019
721997.747	4294314.682	10373	21-Dec-13	ALEX122113.SSF	573898.396	41020
721997.694	4294314.56	9553	21-Dec-13	ALEX122113.SSF	573899.4932	41021
721997.709	4294314.3	10368	21-Dec-13	ALEX122113.SSF	573900.438	41022
721997.492	4294314.276	9912	21-Dec-13	ALEX122113.SSF	573901.48	41023
721997.219	4294314.449	9018	21-Dec-13	ALEX122113.SSF	573902.3779	41024
721997.125	4294314.517	9904	21-Dec-13	ALEX122113.SSF	573903.4849	41025
721997.204	4294314.497	10276	21-Dec-13	ALEX122113.SSF	573904.4668	41026
721997.259	4294314.567	10279	21-Dec-13	ALEX122113.SSF	573905.5049	41027
721997.21	4294314.652	9379	21-Dec-13	ALEX122113.SSF	573906.3472	41028
721997.137	4294314.776	10205	21-Dec-13	ALEX122113.SSF	573907.4238	41029
721997.111	4294314.877	9031	21-Dec-13	ALEX122113.SSF	573908.4199	41030
721997.056	4294314.929	9997	21-Dec-13	ALEX122113.SSF	573909.499	41031
721997.015	4294314.93	9999	21-Dec-13	ALEX122113.SSF	573910.4629	41032
721996.98	4294314.828	11260	21-Dec-13	ALEX122113.SSF	573911.5259	41033
721996.817	4294314.656	9595	21-Dec-13	ALEX122113.SSF	573912.375	41034
721996.404	4294314.239	8398	21-Dec-13	ALEX122113.SSF	573913.4751	41035
721996.03	4294313.804	10079	21-Dec-13	ALEX122113.SSF	573914.4438	41036
721995.774	4294313.601	9630	21-Dec-13	ALEX122113.SSF	573915.4512	41037
721995.707	4294313.605	9817	21-Dec-13	ALEX122113.SSF	573916.396	41038
721995.697	4294313.615	10254	21-Dec-13	ALEX122113.SSF	573917.4341	41039
721995.642	4294313.575	9253	21-Dec-13	ALEX122113.SSF	573918.417	41040
721995.64	4294313.509	9033	21-Dec-13	ALEX122113.SSF	573919.3999	41041
721995.66	4294313.456	9428	21-Dec-13	ALEX122113.SSF	573920.416	41042
721995.685	4294313.423	10037	21-Dec-13	ALEX122113.SSF	573921.479	41043
721995.708	4294313.401	10069	21-Dec-13	ALEX122113.SSF	573922.3198	41044
721995.712	4294313.392	9837	21-Dec-13	ALEX122113.SSF	573923.4458	41045
721995.698	4294313.399	8999	21-Dec-13	ALEX122113.SSF	573924.3408	41046
721995.744	4294313.364	10050	21-Dec-13	ALEX122113.SSF	573925.4951	41047
721995.794	4294313.339	10012	21-Dec-13	ALEX122113.SSF	573926.5259	41048
721995.777	4294313.359	9403	21-Dec-13	ALEX122113.SSF	573927.5479	41049
721995.801	4294313.381	10150	21-Dec-13	ALEX122113.SSF	573928.4731	41050
721995.89	4294313.397	9227	21-Dec-13	ALEX122113.SSF	573929.5732	41051
721995.951	4294313.408	9086	21-Dec-13	ALEX122113.SSF	573930.4609	41052
721995.985	4294313.416	10341	21-Dec-13	ALEX122113.SSF	573931.0249	41053
721996.049	4294313.454	10415	21-Dec-13	ALEX122113.SSF	573931.9692	41054
721996.033	4294313.482	9953	21-Dec-13	ALEX122113.SSF	573933.0742	41055
721996.033	4294313.439	9688	21-Dec-13	ALEX122113.SSF	573933.9902	41056
721995.916	4294313.256	9022	21-Dec-13	ALEX122113.SSF	573935.4531	41057
721995.592	4294312.983	8855	21-Dec-13	ALEX122113.SSF	573936.4409	41058
721995.145	4294312.527	8333	21-Dec-13	ALEX122113.SSF	573937.4302	41059

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721994.69	4294311.963	9343	21-Dec-13	ALEX122113.SSF	573938.4102	41060
721994.31	4294311.574	9236	21-Dec-13	ALEX122113.SSF	573939.5269	41061
721994.038	4294311.487	8609	21-Dec-13	ALEX122113.SSF	573940.3638	41062
721993.647	4294311.332	9172	21-Dec-13	ALEX122113.SSF	573941.394	41063
721993.335	4294310.909	9283	21-Dec-13	ALEX122113.SSF	573942.3188	41064
721992.931	4294310.074	9490	21-Dec-13	ALEX122113.SSF	573943.4141	41065
721992.551	4294309.403	8882	21-Dec-13	ALEX122113.SSF	573944.3032	41066
721992.125	4294308.611	9570	21-Dec-13	ALEX122113.SSF	573945.4692	41067
721991.654	4294307.886	8752	21-Dec-13	ALEX122113.SSF	573946.458	41068
721990.936	4294307.03	10318	21-Dec-13	ALEX122113.SSF	573947.5459	41069
721990.448	4294306.372	9479	21-Dec-13	ALEX122113.SSF	573948.4531	41070
721989.932	4294305.59	9090	21-Dec-13	ALEX122113.SSF	573949.521	41071
721989.437	4294304.933	9172	21-Dec-13	ALEX122113.SSF	573950.4351	41072
721988.992	4294304.348	10003	21-Dec-13	ALEX122113.SSF	573951.4531	41073
721988.653	4294303.904	9700	21-Dec-13	ALEX122113.SSF	573952.438	41074
721988.257	4294303.376	10555	21-Dec-13	ALEX122113.SSF	573953.5049	41075
721987.845	4294302.783	10588	21-Dec-13	ALEX122113.SSF	573954.481	41076
721987.41	4294302.251	9307	21-Dec-13	ALEX122113.SSF	573955.4302	41077
721987.01	4294301.763	9826	21-Dec-13	ALEX122113.SSF	573956.3599	41078
721986.508	4294301.077	9356	21-Dec-13	ALEX122113.SSF	573957.4668	41079
721986.037	4294300.597	8549	21-Dec-13	ALEX122113.SSF	573958.3589	41080
721985.477	4294300.024	9097	21-Dec-13	ALEX122113.SSF	573959.3979	41081
721984.975	4294299.334	9714	21-Dec-13	ALEX122113.SSF	573960.417	41082
721984.473	4294298.695	8398	21-Dec-13	ALEX122113.SSF	573961.4702	41083
721984.085	4294298.193	9509	21-Dec-13	ALEX122113.SSF	573962.4111	41084
721983.645	4294297.549	10237	21-Dec-13	ALEX122113.SSF	573963.4761	41085
721983.203	4294296.979	9009	21-Dec-13	ALEX122113.SSF	573964.415	41086
721982.751	4294296.443	10112	21-Dec-13	ALEX122113.SSF	573965.4351	41087
721982.308	4294295.952	10576	21-Dec-13	ALEX122113.SSF	573966.3408	41088
721981.666	4294295.284	10472	21-Dec-13	ALEX122113.SSF	573967.4541	41089
721981.215	4294294.681	10478	21-Dec-13	ALEX122113.SSF	573968.376	41090
721980.671	4294293.892	10029	21-Dec-13	ALEX122113.SSF	573969.4922	41091
721980.089	4294293.243	9437	21-Dec-13	ALEX122113.SSF	573970.436	41092
721979.498	4294292.602	9919	21-Dec-13	ALEX122113.SSF	573971.5479	41093
721979.173	4294292.231	10369	21-Dec-13	ALEX122113.SSF	573972.4482	41094
721978.829	4294291.78	9222	21-Dec-13	ALEX122113.SSF	573973.4678	41095
721978.492	4294291.166	10225	21-Dec-13	ALEX122113.SSF	573974.4668	41096
721978.161	4294290.458	9396	21-Dec-13	ALEX122113.SSF	573975.4678	41097
721977.734	4294289.726	10119	21-Dec-13	ALEX122113.SSF	573976.4092	41098
721977.127	4294288.917	10239	21-Dec-13	ALEX122113.SSF	573977.4229	41099
721976.624	4294288.271	9340	21-Dec-13	ALEX122113.SSF	573978.374	41100
721976.3	4294287.872	8995	21-Dec-13	ALEX122113.SSF	573979.4639	41101
721976.172	4294287.805	7588	21-Dec-13	ALEX122113.SSF	573980.4268	41102
721976.105	4294287.724	8377	21-Dec-13	ALEX122113.SSF	573981.4912	41103
721975.991	4294287.45	7464	21-Dec-13	ALEX122113.SSF	573982.4028	41104
721975.752	4294286.854	8376	21-Dec-13	ALEX122113.SSF	573983.4751	41105
721975.443	4294286.345	8244	21-Dec-13	ALEX122113.SSF	573984.394	41106

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721975.05	4294285.922	8061	21-Dec-13	ALEX122113.SSF	573985.3569	41107
721974.633	4294285.418	7235	21-Dec-13	ALEX122113.SSF	573986.3081	41108
721974.011	4294284.608	6968	21-Dec-13	ALEX122113.SSF	573987.4429	41109
721973.494	4294283.896	6992	21-Dec-13	ALEX122113.SSF	573988.3652	41110
721973.05	4294283.174	7028	21-Dec-13	ALEX122113.SSF	573989.3779	41111
721972.558	4294282.474	7097	21-Dec-13	ALEX122113.SSF	573990.3418	41112
721971.961	4294281.663	6904	21-Dec-13	ALEX122113.SSF	573991.4541	41113
721971.524	4294280.985	6316	21-Dec-13	ALEX122113.SSF	573992.3818	41114
721971.002	4294280.275	6049	21-Dec-13	ALEX122113.SSF	573993.4692	41115
721970.586	4294279.697	6753	21-Dec-13	ALEX122113.SSF	573994.4028	41116
721970.132	4294279.013	7838	21-Dec-13	ALEX122113.SSF	573995.4409	41117
721969.604	4294278.379	8409	21-Dec-13	ALEX122113.SSF	573996.437	41118
721969.017	4294277.79	7022	21-Dec-13	ALEX122113.SSF	573997.438	41119
721968.533	4294277.22	8175	21-Dec-13	ALEX122113.SSF	573998.3691	41120
721968.079	4294276.436	8013	21-Dec-13	ALEX122113.SSF	573999.438	41121
721967.662	4294275.696	8393	21-Dec-13	ALEX122113.SSF	574000.3701	41122
721967.164	4294274.911	7528	21-Dec-13	ALEX122113.SSF	574001.416	41123
721966.735	4294274.225	8242	21-Dec-13	ALEX122113.SSF	574002.374	41124
721966.287	4294273.578	8720	21-Dec-13	ALEX122113.SSF	574003.4199	41125
721965.9	4294273.05	8750	21-Dec-13	ALEX122113.SSF	574004.3652	41126
721965.591	4294272.477	9207	21-Dec-13	ALEX122113.SSF	574005.5298	41127
721965.451	4294272.266	8242	21-Dec-13	ALEX122113.SSF	574006.418	41128
721965.359	4294272.271	7820	21-Dec-13	ALEX122113.SSF	574007.4839	41129
721965.299	4294272.359	7295	21-Dec-13	ALEX122113.SSF	574008.4399	41130
721965.207	4294272.575	7793	21-Dec-13	ALEX122113.SSF	574009.54	41131
721965.05	4294272.814	8458	21-Dec-13	ALEX122113.SSF	574010.3999	41132
721964.765	4294273.036	9254	21-Dec-13	ALEX122113.SSF	574011.439	41133
721964.435	4294273.063	8733	21-Dec-13	ALEX122113.SSF	574012.4482	41134
721964.16	4294272.945	8273	21-Dec-13	ALEX122113.SSF	574013.48	41135
721964.141	4294272.867	7798	21-Dec-13	ALEX122113.SSF	574014.4971	41136
721964.181	4294272.854	7919	21-Dec-13	ALEX122113.SSF	574015.3701	41137
721964.133	4294272.844	7470	21-Dec-13	ALEX122113.SSF	574016.3311	41138
721964.096	4294272.875	8467	21-Dec-13	ALEX122113.SSF	574017.4351	41139
721964.091	4294273.088	7696	21-Dec-13	ALEX122113.SSF	574018.3521	41140
721964.108	4294273.421	7714	21-Dec-13	ALEX122113.SSF	574019.4678	41141
721964.186	4294273.603	8648	21-Dec-13	ALEX122113.SSF	574020.4092	41142
721964.339	4294273.897	7592	21-Dec-13	ALEX122113.SSF	574021.4629	41143
721964.589	4294274.465	6848	21-Dec-13	ALEX122113.SSF	574022.3979	41144
721964.897	4294275.256	8462	21-Dec-13	ALEX122113.SSF	574023.4878	41145
721965.112	4294275.783	7755	21-Dec-13	ALEX122113.SSF	574024.374	41146
721965.443	4294276.429	6948	21-Dec-13	ALEX122113.SSF	574025.4502	41147
721965.719	4294276.973	6777	21-Dec-13	ALEX122113.SSF	574026.2949	41148
721966.136	4294277.528	7604	21-Dec-13	ALEX122113.SSF	574027.418	41149
721966.405	4294277.864	7241	21-Dec-13	ALEX122113.SSF	574028.3638	41150
721966.666	4294278.278	7540	21-Dec-13	ALEX122113.SSF	574029.3999	41151
721967.019	4294278.87	7825	21-Dec-13	ALEX122113.SSF	574030.3418	41152
721967.384	4294279.615	7956	21-Dec-13	ALEX122113.SSF	574031.3838	41153

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721967.7	4294280.161	7719	21-Dec-13	ALEX122113.SSF	574032.2959	41154
721968.186	4294280.827	7029	21-Dec-13	ALEX122113.SSF	574033.4209	41155
721968.654	4294281.486	6647	21-Dec-13	ALEX122113.SSF	574034.3599	41156
721969.193	4294282.142	6671	21-Dec-13	ALEX122113.SSF	574035.4639	41157
721969.619	4294282.732	6018	21-Dec-13	ALEX122113.SSF	574036.4819	41158
721970.084	4294283.367	6137	21-Dec-13	ALEX122113.SSF	574037.5269	41159
721970.609	4294283.861	6694	21-Dec-13	ALEX122113.SSF	574038.4009	41160
721971.218	4294284.441	6083	21-Dec-13	ALEX122113.SSF	574039.5112	41161
721971.62	4294284.949	7881	21-Dec-13	ALEX122113.SSF	574040.4072	41162
721972.171	4294285.608	7520	21-Dec-13	ALEX122113.SSF	574041.4419	41163
721972.568	4294286.16	8030	21-Dec-13	ALEX122113.SSF	574042.375	41164
721972.87	4294286.635	7467	21-Dec-13	ALEX122113.SSF	574043.4829	41165
721973.187	4294286.969	7417	21-Dec-13	ALEX122113.SSF	574044.3999	41166
721973.694	4294287.44	7764	21-Dec-13	ALEX122113.SSF	574045.4189	41167
721974.293	4294288.049	8361	21-Dec-13	ALEX122113.SSF	574046.3691	41168
721974.881	4294288.799	9380	21-Dec-13	ALEX122113.SSF	574047.4912	41169
721975.199	4294289.281	7865	21-Dec-13	ALEX122113.SSF	574048.3301	41170
721975.696	4294290.068	9136	21-Dec-13	ALEX122113.SSF	574049.479	41171
721976.181	4294290.801	9184	21-Dec-13	ALEX122113.SSF	574050.4038	41172
721976.715	4294291.452	8926	21-Dec-13	ALEX122113.SSF	574051.5181	41173
721977.024	4294291.789	7271	21-Dec-13	ALEX122113.SSF	574052.4189	41174
721977.34	4294292.154	9018	21-Dec-13	ALEX122113.SSF	574053.5039	41175
721977.684	4294292.595	8974	21-Dec-13	ALEX122113.SSF	574054.4888	41176
721978.242	4294293.284	9773	21-Dec-13	ALEX122113.SSF	574055.4629	41177
721978.897	4294294.108	9613	21-Dec-13	ALEX122113.SSF	574056.4219	41178
721979.396	4294294.832	9603	21-Dec-13	ALEX122113.SSF	574057.4971	41179
721979.686	4294295.249	9930	21-Dec-13	ALEX122113.SSF	574058.396	41180
721979.961	4294295.704	10282	21-Dec-13	ALEX122113.SSF	574059.4199	41181
721980.24	4294296.276	11141	21-Dec-13	ALEX122113.SSF	574060.3691	41182
721980.751	4294297.037	10557	21-Dec-13	ALEX122113.SSF	574061.4619	41183
721981.209	4294297.656	9479	21-Dec-13	ALEX122113.SSF	574062.3071	41184
721981.754	4294298.35	10920	21-Dec-13	ALEX122113.SSF	574063.4111	41185
721982.123	4294298.729	10140	21-Dec-13	ALEX122113.SSF	574064.314	41186
721982.544	4294299.124	9697	21-Dec-13	ALEX122113.SSF	574065.376	41187
721982.975	4294299.576	8964	21-Dec-13	ALEX122113.SSF	574066.333	41188
721983.482	4294300.161	8481	21-Dec-13	ALEX122113.SSF	574067.4321	41189
721983.96	4294300.606	9800	21-Dec-13	ALEX122113.SSF	574068.3491	41190
721984.343	4294301.063	9980	21-Dec-13	ALEX122113.SSF	574069.4502	41191
721984.523	4294301.456	8885	21-Dec-13	ALEX122113.SSF	574070.3779	41192
721984.821	4294302.028	10981	21-Dec-13	ALEX122113.SSF	574071.4282	41193
721985.097	4294302.531	9165	21-Dec-13	ALEX122113.SSF	574072.4629	41194
721985.44	4294303.059	10541	21-Dec-13	ALEX122113.SSF	574073.4131	41195
721985.917	4294303.648	11365	21-Dec-13	ALEX122113.SSF	574074.416	41196
721986.482	4294304.238	11061	21-Dec-13	ALEX122113.SSF	574075.4639	41197
721986.899	4294304.707	9755	21-Dec-13	ALEX122113.SSF	574076.3398	41198
721987.341	4294305.152	11468	21-Dec-13	ALEX122113.SSF	574077.4429	41199
721987.718	4294305.516	10157	21-Dec-13	ALEX122113.SSF	574078.3428	41200

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721988.193	4294306.098	9199	21-Dec-13	ALEX122113.SSF	574079.4668	41201
721988.581	4294306.585	9229	21-Dec-13	ALEX122113.SSF	574080.3262	41202
721989.119	4294307.301	10017	21-Dec-13	ALEX122113.SSF	574081.3999	41203
721989.572	4294308.014	10484	21-Dec-13	ALEX122113.SSF	574082.2979	41204
721990.122	4294308.704	9791	21-Dec-13	ALEX122113.SSF	574083.373	41205
721990.493	4294309.254	9227	21-Dec-13	ALEX122113.SSF	574084.3931	41206
721990.81	4294309.937	10046	21-Dec-13	ALEX122113.SSF	574085.3901	41207
721991.266	4294310.708	9111	21-Dec-13	ALEX122113.SSF	574086.356	41208
721991.739	4294311.394	9838	21-Dec-13	ALEX122113.SSF	574087.3711	41209
721992.254	4294311.725	9539	21-Dec-13	ALEX122113.SSF	574088.373	41210
721992.734	4294312.096	10372	21-Dec-13	ALEX122113.SSF	574089.4058	41211
721993.134	4294312.658	9283	21-Dec-13	ALEX122113.SSF	574090.4321	41212
721993.598	4294313.381	10000	21-Dec-13	ALEX122113.SSF	574091.4409	41213
721994.093	4294314.164	10300	21-Dec-13	ALEX122113.SSF	574092.3599	41214
721994.626	4294314.836	9415	21-Dec-13	ALEX122113.SSF	574093.4341	41215
721994.982	4294315.184	9193	21-Dec-13	ALEX122113.SSF	574094.3398	41216
721995.332	4294315.619	9828	21-Dec-13	ALEX122113.SSF	574095.3799	41217
721995.724	4294316.145	11907	21-Dec-13	ALEX122113.SSF	574096.3281	41218
721996.116	4294316.818	9546	21-Dec-13	ALEX122113.SSF	574097.4219	41219
721996.272	4294317.154	9736	21-Dec-13	ALEX122113.SSF	574098.3638	41220
721996.282	4294317.271	9604	21-Dec-13	ALEX122113.SSF	574099.4658	41221
721996.249	4294317.345	10261	21-Dec-13	ALEX122113.SSF	574100.3511	41222
721996.191	4294317.448	9645	21-Dec-13	ALEX122113.SSF	574101.4229	41223
721996.086	4294317.512	10481	21-Dec-13	ALEX122113.SSF	574102.333	41224
721996.12	4294317.525	9610	21-Dec-13	ALEX122113.SSF	574103.3599	41225
721996.409	4294317.365	9002	21-Dec-13	ALEX122113.SSF	574104.3672	41226
721996.49	4294317.268	10200	21-Dec-13	ALEX122113.SSF	574105.481	41227
721996.27	4294317.403	9780	21-Dec-13	ALEX122113.SSF	574106.4561	41228
721996.081	4294317.453	9525	21-Dec-13	ALEX122113.SSF	574107.4321	41229
721995.981	4294317.508	10301	21-Dec-13	ALEX122113.SSF	574108.438	41230
721995.958	4294317.737	9325	21-Dec-13	ALEX122113.SSF	574109.3862	41231
721996.13	4294318.042	10341	21-Dec-13	ALEX122113.SSF	574110.374	41232
721996.294	4294318.088	11285	21-Dec-13	ALEX122113.SSF	574111.3999	41233
721996.322	4294317.967	9691	21-Dec-13	ALEX122113.SSF	574112.3472	41234
721996.264	4294317.988	9622	21-Dec-13	ALEX122113.SSF	574113.396	41235
721996.19	4294318.017	9395	21-Dec-13	ALEX122113.SSF	574114.3579	41236
721996.154	4294318.021	9789	21-Dec-13	ALEX122113.SSF	574115.3848	41237
721996.105	4294318.017	10877	21-Dec-13	ALEX122113.SSF	574116.3472	41238
721996.059	4294317.963	10309	21-Dec-13	ALEX122113.SSF	574117.3608	41239
721996.027	4294317.909	9207	21-Dec-13	ALEX122113.SSF	574118.3599	41240
721995.989	4294317.858	9892	21-Dec-13	ALEX122113.SSF	574119.3872	41241
721995.983	4294317.82	9973	21-Dec-13	ALEX122113.SSF	574120.3701	41242
721995.982	4294317.787	10293	21-Dec-13	ALEX122113.SSF	574121.3652	41243
721995.97	4294317.77	10823	21-Dec-13	ALEX122113.SSF	574122.3608	41244
721995.974	4294317.747	9365	21-Dec-13	ALEX122113.SSF	574123.4722	41245
721995.993	4294317.716	10711	21-Dec-13	ALEX122113.SSF	574124.3608	41246
721996.008	4294317.694	9787	21-Dec-13	ALEX122113.SSF	574125.3862	41247

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721996.013	4294317.693	10337	21-Dec-13	ALEX122113.SSF	574126.3291	41248
721996.006	4294317.679	10084	21-Dec-13	ALEX122113.SSF	574127.3911	41249
721995.999	4294317.658	9391	21-Dec-13	ALEX122113.SSF	574128.334	41250
721995.997	4294317.633	9727	21-Dec-13	ALEX122113.SSF	574129.3408	41251
721996	4294317.612	9962	21-Dec-13	ALEX122113.SSF	574130.3901	41252
721995.983	4294317.595	10620	21-Dec-13	ALEX122113.SSF	574131.4971	41253
721995.973	4294317.584	10185	21-Dec-13	ALEX122113.SSF	574132.3599	41254
721995.959	4294317.575	10406	21-Dec-13	ALEX122113.SSF	574133.4609	41255
721995.954	4294317.572	10101	21-Dec-13	ALEX122113.SSF	574134.3882	41256
721995.956	4294317.568	9965	21-Dec-13	ALEX122113.SSF	574135.3779	41257
721995.956	4294317.562	9841	21-Dec-13	ALEX122113.SSF	574136.334	41258
721995.951	4294317.558	9510	21-Dec-13	ALEX122113.SSF	574137.4111	41259
721995.944	4294317.557	9517	21-Dec-13	ALEX122113.SSF	574138.3389	41260
721995.926	4294317.552	9789	21-Dec-13	ALEX122113.SSF	574139.3901	41261
721995.921	4294317.538	9707	21-Dec-13	ALEX122113.SSF	574140.3291	41262
721995.91	4294317.538	10376	21-Dec-13	ALEX122113.SSF	574141.4351	41263
721995.914	4294317.562	9704	21-Dec-13	ALEX122113.SSF	574142.3379	41264
721995.713	4294317.079	9021	21-Dec-13	ALEX122113.SSF	574285.4229	41265
721995.713	4294317.079	9095	21-Dec-13	ALEX122113.SSF	574286.2842	41266
721995.715	4294317.087	10643	21-Dec-13	ALEX122113.SSF	574287.4341	41267
721995.714	4294317.084	9951	21-Dec-13	ALEX122113.SSF	574288.2871	41268
721995.718	4294317.059	9717	21-Dec-13	ALEX122113.SSF	574289.377	41269
721995.731	4294317.053	9509	21-Dec-13	ALEX122113.SSF	574290.333	41270
721995.78	4294317.042	9577	21-Dec-13	ALEX122113.SSF	574291.4209	41271
721995.839	4294316.995	9534	21-Dec-13	ALEX122113.SSF	574292.3462	41272
721995.917	4294316.92	9733	21-Dec-13	ALEX122113.SSF	574293.4048	41273
721996.007	4294316.846	9693	21-Dec-13	ALEX122113.SSF	574294.3828	41274
721996.062	4294316.842	9503	21-Dec-13	ALEX122113.SSF	574295.314	41275
721996.014	4294316.916	9185	21-Dec-13	ALEX122113.SSF	574296.3442	41276
721995.776	4294317.03	9106	21-Dec-13	ALEX122113.SSF	574297.3789	41277
721995.582	4294317.18	9626	21-Dec-13	ALEX122113.SSF	574298.3262	41278
721995.598	4294317.265	9156	21-Dec-13	ALEX122113.SSF	574299.4131	41279
721995.677	4294317.25	9519	21-Dec-13	ALEX122113.SSF	574300.4219	41280
721995.627	4294317.169	9729	21-Dec-13	ALEX122113.SSF	574301.4199	41281
721995.478	4294316.879	9452	21-Dec-13	ALEX122113.SSF	574302.4092	41282
721995.22	4294316.456	9083	21-Dec-13	ALEX122113.SSF	574303.3892	41283
721994.905	4294316.072	9500	21-Dec-13	ALEX122113.SSF	574304.2788	41284
721994.432	4294315.445	9635	21-Dec-13	ALEX122113.SSF	574305.3721	41285
721993.911	4294314.736	9968	21-Dec-13	ALEX122113.SSF	574306.3071	41286
721993.329	4294313.942	9392	21-Dec-13	ALEX122113.SSF	574307.417	41287
721992.924	4294313.382	9338	21-Dec-13	ALEX122113.SSF	574308.3208	41288
721992.339	4294312.705	9264	21-Dec-13	ALEX122113.SSF	574309.3838	41289
721991.823	4294312.12	9336	21-Dec-13	ALEX122113.SSF	574310.3091	41290
721991.358	4294311.608	9444	21-Dec-13	ALEX122113.SSF	574311.3389	41291
721990.977	4294311.15	9201	21-Dec-13	ALEX122113.SSF	574312.2939	41292
721990.478	4294310.492	9800	21-Dec-13	ALEX122113.SSF	574313.3799	41293
721989.968	4294309.938	9920	21-Dec-13	ALEX122113.SSF	574314.334	41294

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721989.445	4294309.368	9830	21-Dec-13	ALEX122113.SSF	574315.3721	41295
721989.026	4294308.825	9717	21-Dec-13	ALEX122113.SSF	574316.292	41296
721988.44	4294308.277	10199	21-Dec-13	ALEX122113.SSF	574317.4268	41297
721987.95	4294307.863	8430	21-Dec-13	ALEX122113.SSF	574318.2471	41298
721987.33	4294307.02	8887	21-Dec-13	ALEX122113.SSF	574319.3818	41299
721986.866	4294306.342	8821	21-Dec-13	ALEX122113.SSF	574320.3491	41300
721986.421	4294305.764	8505	21-Dec-13	ALEX122113.SSF	574321.3169	41301
721985.972	4294305.126	9776	21-Dec-13	ALEX122113.SSF	574322.2891	41302
721985.491	4294304.592	10244	21-Dec-13	ALEX122113.SSF	574323.3652	41303
721985.027	4294304.188	10601	21-Dec-13	ALEX122113.SSF	574324.3672	41304
721984.641	4294303.65	9340	21-Dec-13	ALEX122113.SSF	574325.374	41305
721984.345	4294303.129	10465	21-Dec-13	ALEX122113.SSF	574326.3408	41306
721984.009	4294302.614	9486	21-Dec-13	ALEX122113.SSF	574327.4102	41307
721983.617	4294302.078	9901	21-Dec-13	ALEX122113.SSF	574328.3638	41308
721983.064	4294301.525	10515	21-Dec-13	ALEX122113.SSF	574329.3682	41309
721982.596	4294301.064	9918	21-Dec-13	ALEX122113.SSF	574330.2778	41310
721982.132	4294300.435	9919	21-Dec-13	ALEX122113.SSF	574331.3511	41311
721981.657	4294299.764	9140	21-Dec-13	ALEX122113.SSF	574332.3159	41312
721981.21	4294299.123	9275	21-Dec-13	ALEX122113.SSF	574333.2998	41313
721980.806	4294298.607	9218	21-Dec-13	ALEX122113.SSF	574334.3291	41314
721980.394	4294297.986	8934	21-Dec-13	ALEX122113.SSF	574335.3569	41315
721979.971	4294297.286	9433	21-Dec-13	ALEX122113.SSF	574336.2021	41316
721979.292	4294296.335	10008	21-Dec-13	ALEX122113.SSF	574337.3872	41317
721978.835	4294295.751	8982	21-Dec-13	ALEX122113.SSF	574338.2729	41318
721978.316	4294294.969	10105	21-Dec-13	ALEX122113.SSF	574339.3218	41319
721977.776	4294294.247	10926	21-Dec-13	ALEX122113.SSF	574340.2808	41320
721977.221	4294293.684	9691	21-Dec-13	ALEX122113.SSF	574341.311	41321
721976.706	4294293.076	9082	21-Dec-13	ALEX122113.SSF	574342.354	41322
721976.111	4294292.271	8690	21-Dec-13	ALEX122113.SSF	574343.3628	41323
721975.604	4294291.569	9702	21-Dec-13	ALEX122113.SSF	574344.2788	41324
721975.1	4294291.016	10375	21-Dec-13	ALEX122113.SSF	574345.4082	41325
721974.685	4294290.548	9344	21-Dec-13	ALEX122113.SSF	574346.3501	41326
721974.205	4294289.812	9326	21-Dec-13	ALEX122113.SSF	574347.3672	41327
721973.682	4294289.143	8751	21-Dec-13	ALEX122113.SSF	574348.3711	41328
721973.193	4294288.606	7917	21-Dec-13	ALEX122113.SSF	574349.4419	41329
721972.852	4294288.18	9629	21-Dec-13	ALEX122113.SSF	574350.2808	41330
721972.371	4294287.61	8227	21-Dec-13	ALEX122113.SSF	574351.3032	41331
721972.004	4294287.093	7216	21-Dec-13	ALEX122113.SSF	574352.335	41332
721971.694	4294286.615	7414	21-Dec-13	ALEX122113.SSF	574353.3418	41333
721971.313	4294286.097	6053	21-Dec-13	ALEX122113.SSF	574354.3291	41334
721970.839	4294285.331	6215	21-Dec-13	ALEX122113.SSF	574355.3921	41335
721970.333	4294284.596	7133	21-Dec-13	ALEX122113.SSF	574356.3809	41336
721969.785	4294283.949	6613	21-Dec-13	ALEX122113.SSF	574357.3799	41337
721969.237	4294283.207	6903	21-Dec-13	ALEX122113.SSF	574358.3999	41338
721968.741	4294282.541	6255	21-Dec-13	ALEX122113.SSF	574359.376	41339
721968.359	4294282.029	6573	21-Dec-13	ALEX122113.SSF	574360.272	41340
721967.964	4294281.343	7733	21-Dec-13	ALEX122113.SSF	574361.3242	41341

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721967.462	4294280.631	7783	21-Dec-13	ALEX122113.SSF	574362.332	41342
721966.951	4294280.019	6356	21-Dec-13	ALEX122113.SSF	574363.3281	41343
721966.566	4294279.408	6178	21-Dec-13	ALEX122113.SSF	574364.3032	41344
721966.094	4294278.705	7514	21-Dec-13	ALEX122113.SSF	574365.416	41345
721965.691	4294278.224	7458	21-Dec-13	ALEX122113.SSF	574366.3149	41346
721965.192	4294277.699	7804	21-Dec-13	ALEX122113.SSF	574367.3828	41347
721964.644	4294277.434	7981	21-Dec-13	ALEX122113.SSF	574368.2949	41348
721964.264	4294277.306	7125	21-Dec-13	ALEX122113.SSF	574369.3701	41349
721964.303	4294277.202	7841	21-Dec-13	ALEX122113.SSF	574370.3198	41350
721964.459	4294277.059	9070	21-Dec-13	ALEX122113.SSF	574371.4829	41351
721964.51	4294276.992	7817	21-Dec-13	ALEX122113.SSF	574372.3569	41352
721964.521	4294276.931	6844	21-Dec-13	ALEX122113.SSF	574373.3491	41353
721964.44	4294276.738	6391	21-Dec-13	ALEX122113.SSF	574374.3818	41354
721964.094	4294276.319	6547	21-Dec-13	ALEX122113.SSF	574375.4111	41355
721963.717	4294275.839	6827	21-Dec-13	ALEX122113.SSF	574376.3101	41356
721963.372	4294275.185	7016	21-Dec-13	ALEX122113.SSF	574377.4019	41357
721963.108	4294274.563	8594	21-Dec-13	ALEX122113.SSF	574378.3369	41358
721962.923	4294273.944	9168	21-Dec-13	ALEX122113.SSF	574379.396	41359
721962.885	4294273.671	8862	21-Dec-13	ALEX122113.SSF	574380.3101	41360
721962.886	4294273.588	8545	21-Dec-13	ALEX122113.SSF	574381.3979	41361
721962.907	4294273.569	7896	21-Dec-13	ALEX122113.SSF	574382.313	41362
721962.852	4294273.717	6834	21-Dec-13	ALEX122113.SSF	574383.3828	41363
721962.526	4294273.986	7558	21-Dec-13	ALEX122113.SSF	574384.2729	41364
721961.832	4294274.212	6959	21-Dec-13	ALEX122113.SSF	574385.499	41365
721961.639	4294274.104	7410	21-Dec-13	ALEX122113.SSF	574386.2368	41366
721961.693	4294273.929	8002	21-Dec-13	ALEX122113.SSF	574387.2881	41367
721961.505	4294274.043	6440	21-Dec-13	ALEX122113.SSF	574388.353	41368
721961.28	4294274.34	7190	21-Dec-13	ALEX122113.SSF	574389.313	41369
721961.349	4294274.616	7227	21-Dec-13	ALEX122113.SSF	574390.3301	41370
721961.505	4294274.7	8077	21-Dec-13	ALEX122113.SSF	574391.375	41371
721961.577	4294274.735	7179	21-Dec-13	ALEX122113.SSF	574392.3188	41372
721961.509	4294274.807	8124	21-Dec-13	ALEX122113.SSF	574393.3418	41373
721961.412	4294274.921	7881	21-Dec-13	ALEX122113.SSF	574394.3169	41374
721961.472	4294274.996	8060	21-Dec-13	ALEX122113.SSF	574395.3618	41375
721961.639	4294275.11	8135	21-Dec-13	ALEX122113.SSF	574396.2271	41376
721961.951	4294275.605	7553	21-Dec-13	ALEX122113.SSF	574397.3442	41377
721962.316	4294276.179	7678	21-Dec-13	ALEX122113.SSF	574398.2871	41378
721962.63	4294276.801	7349	21-Dec-13	ALEX122113.SSF	574399.3779	41379
721962.564	4294277.095	7897	21-Dec-13	ALEX122113.SSF	574400.292	41380
721962.426	4294277.109	7794	21-Dec-13	ALEX122113.SSF	574401.4038	41381
721962.481	4294277.097	7318	21-Dec-13	ALEX122113.SSF	574402.2979	41382
721962.782	4294277.392	7229	21-Dec-13	ALEX122113.SSF	574403.3198	41383
721963.237	4294277.986	8377	21-Dec-13	ALEX122113.SSF	574404.3188	41384
721963.715	4294278.529	8094	21-Dec-13	ALEX122113.SSF	574405.2959	41385
721964.143	4294278.987	7093	21-Dec-13	ALEX122113.SSF	574406.27	41386
721964.454	4294279.49	6423	21-Dec-13	ALEX122113.SSF	574407.3052	41387
721964.93	4294280.046	6765	21-Dec-13	ALEX122113.SSF	574408.3379	41388

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721965.58	4294280.616	7121	21-Dec-13	ALEX122113.SSF	574409.355	41389
721966.089	4294281.178	6310	21-Dec-13	ALEX122113.SSF	574410.3208	41390
721966.531	4294281.757	5537	21-Dec-13	ALEX122113.SSF	574411.3442	41391
721967.124	4294282.371	5635	21-Dec-13	ALEX122113.SSF	574412.3472	41392
721967.747	4294283.084	6019	21-Dec-13	ALEX122113.SSF	574413.4141	41393
721968.158	4294283.615	6787	21-Dec-13	ALEX122113.SSF	574414.2378	41394
721968.736	4294284.389	5950	21-Dec-13	ALEX122113.SSF	574415.3892	41395
721969.114	4294284.939	6414	21-Dec-13	ALEX122113.SSF	574416.1938	41396
721969.582	4294285.71	6553	21-Dec-13	ALEX122113.SSF	574417.3838	41397
721969.995	4294286.296	6948	21-Dec-13	ALEX122113.SSF	574418.2988	41398
721970.621	4294287.114	7077	21-Dec-13	ALEX122113.SSF	574419.3481	41399
721971.19	4294287.844	6749	21-Dec-13	ALEX122113.SSF	574420.3618	41400
721971.701	4294288.607	6577	21-Dec-13	ALEX122113.SSF	574421.396	41401
721972.196	4294289.274	8304	21-Dec-13	ALEX122113.SSF	574422.3071	41402
721972.678	4294289.869	8166	21-Dec-13	ALEX122113.SSF	574423.3018	41403
721973.119	4294290.447	8401	21-Dec-13	ALEX122113.SSF	574424.3071	41404
721973.731	4294291.296	8700	21-Dec-13	ALEX122113.SSF	574425.4082	41405
721974.226	4294292.019	8295	21-Dec-13	ALEX122113.SSF	574426.3018	41406
721974.782	4294292.828	9213	21-Dec-13	ALEX122113.SSF	574427.3032	41407
721975.325	4294293.536	9563	21-Dec-13	ALEX122113.SSF	574428.3008	41408
721975.866	4294294.353	9501	21-Dec-13	ALEX122113.SSF	574429.332	41409
721976.391	4294295.095	9635	21-Dec-13	ALEX122113.SSF	574430.2852	41410
721976.899	4294295.761	9608	21-Dec-13	ALEX122113.SSF	574431.3159	41411
721977.267	4294296.315	10142	21-Dec-13	ALEX122113.SSF	574432.27	41412
721977.735	4294297.111	8865	21-Dec-13	ALEX122113.SSF	574433.354	41413
721978.112	4294297.691	9896	21-Dec-13	ALEX122113.SSF	574434.2622	41414
721978.514	4294298.157	9164	21-Dec-13	ALEX122113.SSF	574435.353	41415
721979.027	4294298.625	9011	21-Dec-13	ALEX122113.SSF	574436.3511	41416
721979.61	4294299.448	8762	21-Dec-13	ALEX122113.SSF	574437.4048	41417
721980.106	4294300.192	9450	21-Dec-13	ALEX122113.SSF	574438.269	41418
721980.549	4294300.919	10312	21-Dec-13	ALEX122113.SSF	574439.3389	41419
721980.793	4294301.371	10198	21-Dec-13	ALEX122113.SSF	574440.27	41420
721981.251	4294302.066	9779	21-Dec-13	ALEX122113.SSF	574441.311	41421
721981.7	4294302.766	9465	21-Dec-13	ALEX122113.SSF	574442.1719	41422
721982.255	4294303.457	10886	21-Dec-13	ALEX122113.SSF	574443.3398	41423
721982.671	4294303.773	9891	21-Dec-13	ALEX122113.SSF	574444.2559	41424
721983.161	4294304.341	9072	21-Dec-13	ALEX122113.SSF	574445.3652	41425
721983.697	4294305.007	10458	21-Dec-13	ALEX122113.SSF	574446.332	41426
721984.215	4294305.687	10954	21-Dec-13	ALEX122113.SSF	574447.3672	41427
721984.573	4294306.243	10178	21-Dec-13	ALEX122113.SSF	574448.2969	41428
721985.105	4294307.002	10554	21-Dec-13	ALEX122113.SSF	574449.3809	41429
721985.609	4294307.741	9358	21-Dec-13	ALEX122113.SSF	574450.3418	41430
721986.092	4294308.513	8819	21-Dec-13	ALEX122113.SSF	574451.3809	41431
721986.555	4294309.178	9015	21-Dec-13	ALEX122113.SSF	574452.2949	41432
721987.186	4294309.955	9783	21-Dec-13	ALEX122113.SSF	574453.2998	41433
721987.897	4294310.723	10695	21-Dec-13	ALEX122113.SSF	574454.2778	41434
721988.573	4294311.437	9423	21-Dec-13	ALEX122113.SSF	574455.3442	41435

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721989.01	4294312.058	9526	21-Dec-13	ALEX122113.SSF	574456.2119	41436
721989.514	4294312.769	10001	21-Dec-13	ALEX122113.SSF	574457.2632	41437
721989.995	4294313.413	9880	21-Dec-13	ALEX122113.SSF	574458.2861	41438
721990.442	4294314.146	10120	21-Dec-13	ALEX122113.SSF	574459.3242	41439
721990.913	4294314.73	10480	21-Dec-13	ALEX122113.SSF	574460.2959	41440
721991.387	4294315.347	9640	21-Dec-13	ALEX122113.SSF	574461.3081	41441
721991.862	4294315.884	10660	21-Dec-13	ALEX122113.SSF	574462.1919	41442
721992.793	4294316.449	10435	21-Dec-13	ALEX122113.SSF	574463.2959	41443
721993.529	4294317.017	9538	21-Dec-13	ALEX122113.SSF	574464.2729	41444
721994.008	4294317.737	8954	21-Dec-13	ALEX122113.SSF	574465.2891	41445
721994.328	4294318.385	9288	21-Dec-13	ALEX122113.SSF	574466.2378	41446
721994.546	4294319.082	9732	21-Dec-13	ALEX122113.SSF	574467.3091	41447
721994.698	4294319.611	9903	21-Dec-13	ALEX122113.SSF	574468.3271	41448
721994.859	4294319.809	9795	21-Dec-13	ALEX122113.SSF	574469.3032	41449
721994.854	4294319.817	10128	21-Dec-13	ALEX122113.SSF	574470.2388	41450
721994.659	4294320.07	9162	21-Dec-13	ALEX122113.SSF	574471.335	41451
721994.352	4294320.43	8800	21-Dec-13	ALEX122113.SSF	574472.2798	41452
721994.084	4294320.718	9370	21-Dec-13	ALEX122113.SSF	574473.3101	41453
721993.988	4294320.934	10082	21-Dec-13	ALEX122113.SSF	574474.1768	41454
721993.915	4294321.015	10410	21-Dec-13	ALEX122113.SSF	574475.291	41455
721993.788	4294320.879	9052	21-Dec-13	ALEX122113.SSF	574476.3008	41456
721993.601	4294320.478	8383	21-Dec-13	ALEX122113.SSF	574477.314	41457
721993.236	4294319.974	9356	21-Dec-13	ALEX122113.SSF	574478.2549	41458
721992.568	4294319.256	9749	21-Dec-13	ALEX122113.SSF	574479.3662	41459
721992.046	4294318.603	9667	21-Dec-13	ALEX122113.SSF	574480.2251	41460
721991.533	4294317.86	10036	21-Dec-13	ALEX122113.SSF	574481.3091	41461
721991.172	4294317.33	9049	21-Dec-13	ALEX122113.SSF	574482.145	41462
721990.62	4294316.498	9282	21-Dec-13	ALEX122113.SSF	574483.2231	41463
721990.066	4294315.9	8650	21-Dec-13	ALEX122113.SSF	574484.2671	41464
721989.803	4294315.97	9962	21-Dec-13	ALEX122113.SSF	574485.292	41465
721989.785	4294316.044	9360	21-Dec-13	ALEX122113.SSF	574486.2891	41466
721989.701	4294315.593	9060	21-Dec-13	ALEX122113.SSF	574487.3359	41467
721989.387	4294315.058	9405	21-Dec-13	ALEX122113.SSF	574488.269	41468
721988.845	4294314.573	9341	21-Dec-13	ALEX122113.SSF	574489.3579	41469
721988.801	4294314.443	9595	21-Dec-13	ALEX122113.SSF	574490.2202	41470
721989.024	4294314.457	9719	21-Dec-13	ALEX122113.SSF	574491.2168	41471
721989.05	4294314.377	10019	21-Dec-13	ALEX122113.SSF	574492.25	41472
721989	4294314.307	10155	21-Dec-13	ALEX122113.SSF	574493.27	41473
721988.965	4294314.233	8478	21-Dec-13	ALEX122113.SSF	574494.2778	41474
721988.864	4294314.048	9529	21-Dec-13	ALEX122113.SSF	574495.2769	41475
721988.525	4294313.594	9522	21-Dec-13	ALEX122113.SSF	574496.3159	41476
721988.188	4294313.036	9370	21-Dec-13	ALEX122113.SSF	574497.25	41477
721987.93	4294312.491	9632	21-Dec-13	ALEX122113.SSF	574498.269	41478
721987.526	4294311.945	10988	21-Dec-13	ALEX122113.SSF	574499.3291	41479
721987.06	4294311.325	9527	21-Dec-13	ALEX122113.SSF	574500.2852	41480
721986.557	4294310.737	9941	21-Dec-13	ALEX122113.SSF	574501.3042	41481
721985.971	4294310.302	10285	21-Dec-13	ALEX122113.SSF	574502.2568	41482

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721985.434	4294309.733	9561	21-Dec-13	ALEX122113.SSF	574503.335	41483
721985.033	4294309.175	8690	21-Dec-13	ALEX122113.SSF	574504.2271	41484
721984.463	4294308.565	9372	21-Dec-13	ALEX122113.SSF	574505.248	41485
721983.995	4294308.013	10563	21-Dec-13	ALEX122113.SSF	574506.3071	41486
721983.654	4294307.524	10260	21-Dec-13	ALEX122113.SSF	574507.2441	41487
721983.171	4294307.045	9975	21-Dec-13	ALEX122113.SSF	574508.249	41488
721982.733	4294306.574	10113	21-Dec-13	ALEX122113.SSF	574509.2539	41489
721982.41	4294305.995	9638	21-Dec-13	ALEX122113.SSF	574510.231	41490
721981.932	4294305.381	9489	21-Dec-13	ALEX122113.SSF	574511.2402	41491
721981.404	4294304.84	9572	21-Dec-13	ALEX122113.SSF	574512.1938	41492
721980.897	4294304.025	9443	21-Dec-13	ALEX122113.SSF	574513.3149	41493
721980.452	4294303.278	10130	21-Dec-13	ALEX122113.SSF	574514.2969	41494
721979.998	4294302.59	10002	21-Dec-13	ALEX122113.SSF	574515.3398	41495
721979.616	4294302.084	8650	21-Dec-13	ALEX122113.SSF	574516.2729	41496
721979.091	4294301.457	9782	21-Dec-13	ALEX122113.SSF	574517.2979	41497
721978.668	4294300.801	10275	21-Dec-13	ALEX122113.SSF	574518.2002	41498
721978.287	4294299.893	11298	21-Dec-13	ALEX122113.SSF	574519.3281	41499
721977.851	4294299.215	10774	21-Dec-13	ALEX122113.SSF	574520.2358	41500
721977.22	4294298.544	10433	21-Dec-13	ALEX122113.SSF	574521.335	41501
721976.732	4294297.954	9298	21-Dec-13	ALEX122113.SSF	574522.271	41502
721976.172	4294297.267	10634	21-Dec-13	ALEX122113.SSF	574523.269	41503
721975.679	4294296.683	10398	21-Dec-13	ALEX122113.SSF	574524.1938	41504
721975.15	4294295.922	8389	21-Dec-13	ALEX122113.SSF	574525.332	41505
721974.597	4294295.274	9597	21-Dec-13	ALEX122113.SSF	574526.271	41506
721974.048	4294294.631	8999	21-Dec-13	ALEX122113.SSF	574527.269	41507
721973.68	4294294.064	8490	21-Dec-13	ALEX122113.SSF	574528.2661	41508
721973.171	4294293.286	9022	21-Dec-13	ALEX122113.SSF	574529.3599	41509
721972.76	4294292.608	9215	21-Dec-13	ALEX122113.SSF	574530.2222	41510
721972.339	4294291.896	9533	21-Dec-13	ALEX122113.SSF	574531.3008	41511
721971.979	4294291.302	9343	21-Dec-13	ALEX122113.SSF	574532.1909	41512
721971.498	4294290.351	9416	21-Dec-13	ALEX122113.SSF	574533.2681	41513
721971.017	4294289.582	9884	21-Dec-13	ALEX122113.SSF	574534.2461	41514
721970.444	4294288.977	8711	21-Dec-13	ALEX122113.SSF	574535.25	41515
721970.016	4294288.315	7577	21-Dec-13	ALEX122113.SSF	574536.231	41516
721969.614	4294287.598	8554	21-Dec-13	ALEX122113.SSF	574537.2979	41517
721969.202	4294287.002	6968	21-Dec-13	ALEX122113.SSF	574538.1738	41518
721968.727	4294286.149	7712	21-Dec-13	ALEX122113.SSF	574539.2998	41519
721968.421	4294285.483	7718	21-Dec-13	ALEX122113.SSF	574540.2241	41520
721967.758	4294284.771	7329	21-Dec-13	ALEX122113.SSF	574541.3809	41521
721967.182	4294284.168	6572	21-Dec-13	ALEX122113.SSF	574542.3101	41522
721966.691	4294283.379	6653	21-Dec-13	ALEX122113.SSF	574543.3491	41523
721966.274	4294282.819	6343	21-Dec-13	ALEX122113.SSF	574544.2158	41524
721965.672	4294282.215	5966	21-Dec-13	ALEX122113.SSF	574545.3311	41525
721965.213	4294281.604	6296	21-Dec-13	ALEX122113.SSF	574546.2842	41526
721964.793	4294280.953	6704	21-Dec-13	ALEX122113.SSF	574547.2222	41527
721964.357	4294280.361	6356	21-Dec-13	ALEX122113.SSF	574548.2749	41528
721964.019	4294279.777	6419	21-Dec-13	ALEX122113.SSF	574549.3799	41529

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721963.658	4294279.27	6524	21-Dec-13	ALEX122113.SSF	574550.2959	41530
721963.143	4294278.605	6346	21-Dec-13	ALEX122113.SSF	574551.2969	41531
721962.728	4294277.95	7136	21-Dec-13	ALEX122113.SSF	574552.2349	41532
721962.292	4294277.336	6854	21-Dec-13	ALEX122113.SSF	574553.3311	41533
721961.836	4294276.899	7293	21-Dec-13	ALEX122113.SSF	574554.1748	41534
721961.371	4294276.184	7703	21-Dec-13	ALEX122113.SSF	574555.2632	41535
721961.162	4294275.587	7115	21-Dec-13	ALEX122113.SSF	574556.2979	41536
721960.867	4294275.35	6729	21-Dec-13	ALEX122113.SSF	574557.3638	41537
721960.712	4294275.315	8252	21-Dec-13	ALEX122113.SSF	574558.29	41538
721960.684	4294275.276	7973	21-Dec-13	ALEX122113.SSF	574559.3359	41539
721960.728	4294275.214	6613	21-Dec-13	ALEX122113.SSF	574560.2319	41540
721960.707	4294275.202	6005	21-Dec-13	ALEX122113.SSF	574561.3101	41541
721960.617	4294275.243	7276	21-Dec-13	ALEX122113.SSF	574562.2612	41542
721960.381	4294275.319	6529	21-Dec-13	ALEX122113.SSF	574563.3491	41543
721960.019	4294275.418	7992	21-Dec-13	ALEX122113.SSF	574564.2949	41544
721959.706	4294275.468	6558	21-Dec-13	ALEX122113.SSF	574565.2588	41545
721959.584	4294275.482	6589	21-Dec-13	ALEX122113.SSF	574566.1621	41546
721959.564	4294275.469	7197	21-Dec-13	ALEX122113.SSF	574567.2349	41547
721959.544	4294275.3	6659	21-Dec-13	ALEX122113.SSF	574568.23	41548
721959.606	4294275.231	6735	21-Dec-13	ALEX122113.SSF	574569.3062	41549
721959.667	4294275.24	7113	21-Dec-13	ALEX122113.SSF	574570.2349	41550
721959.712	4294275.249	7448	21-Dec-13	ALEX122113.SSF	574571.3301	41551
721959.681	4294275.375	7322	21-Dec-13	ALEX122113.SSF	574572.1602	41552
721959.559	4294275.754	6420	21-Dec-13	ALEX122113.SSF	574573.291	41553
721959.504	4294275.921	6247	21-Dec-13	ALEX122113.SSF	574574.2451	41554
721959.55	4294276.091	7412	21-Dec-13	ALEX122113.SSF	574575.252	41555
721959.682	4294276.549	7703	21-Dec-13	ALEX122113.SSF	574576.2461	41556
721959.945	4294277.15	7895	21-Dec-13	ALEX122113.SSF	574577.2759	41557
721960.208	4294277.713	7434	21-Dec-13	ALEX122113.SSF	574578.2622	41558
721960.51	4294278.254	6958	21-Dec-13	ALEX122113.SSF	574579.3511	41559
721960.892	4294278.735	8009	21-Dec-13	ALEX122113.SSF	574580.2612	41560
721961.323	4294279.416	6922	21-Dec-13	ALEX122113.SSF	574581.356	41561
721961.624	4294279.924	7400	21-Dec-13	ALEX122113.SSF	574582.293	41562
721962.031	4294280.399	6500	21-Dec-13	ALEX122113.SSF	574583.3091	41563
721962.362	4294280.73	6755	21-Dec-13	ALEX122113.SSF	574584.272	41564
721962.431	4294280.907	7058	21-Dec-13	ALEX122113.SSF	574585.3379	41565
721962.368	4294280.936	6504	21-Dec-13	ALEX122113.SSF	574586.2939	41566
721962.353	4294280.888	7296	21-Dec-13	ALEX122113.SSF	574587.314	41567
721962.41	4294280.871	6324	21-Dec-13	ALEX122113.SSF	574588.2358	41568
721962.452	4294280.814	7491	21-Dec-13	ALEX122113.SSF	574589.3262	41569
721962.48	4294280.765	6432	21-Dec-13	ALEX122113.SSF	574590.2598	41570
721962.499	4294280.744	7338	21-Dec-13	ALEX122113.SSF	574591.2988	41571
721962.671	4294280.836	6604	21-Dec-13	ALEX122113.SSF	574592.2749	41572
721962.987	4294281.256	7321	21-Dec-13	ALEX122113.SSF	574593.311	41573
721963.276	4294281.852	6480	21-Dec-13	ALEX122113.SSF	574594.1582	41574
721963.926	4294282.682	6720	21-Dec-13	ALEX122113.SSF	574595.2939	41575
721964.553	4294283.112	7230	21-Dec-13	ALEX122113.SSF	574596.27	41576

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721965.048	4294283.447	6547	21-Dec-13	ALEX122113.SSF	574597.3198	41577
721965.48	4294284.003	5950	21-Dec-13	ALEX122113.SSF	574598.2778	41578
721965.865	4294284.799	6227	21-Dec-13	ALEX122113.SSF	574599.3101	41579
721966.18	4294285.459	7286	21-Dec-13	ALEX122113.SSF	574600.2598	41580
721966.648	4294286.135	6261	21-Dec-13	ALEX122113.SSF	574601.2612	41581
721967.09	4294286.822	5795	21-Dec-13	ALEX122113.SSF	574602.2461	41582
721967.442	4294287.555	6027	21-Dec-13	ALEX122113.SSF	574603.2842	41583
721967.92	4294288.276	6580	21-Dec-13	ALEX122113.SSF	574604.293	41584
721968.306	4294288.792	6565	21-Dec-13	ALEX122113.SSF	574605.2749	41585
721968.422	4294289.164	6561	21-Dec-13	ALEX122113.SSF	574606.1221	41586
721968.914	4294289.994	7340	21-Dec-13	ALEX122113.SSF	574607.2959	41587
721969.422	4294290.694	6875	21-Dec-13	ALEX122113.SSF	574608.1768	41588
721969.842	4294291.333	7748	21-Dec-13	ALEX122113.SSF	574609.2021	41589
721970.461	4294292.152	8807	21-Dec-13	ALEX122113.SSF	574610.3091	41590
721971.065	4294293.014	9071	21-Dec-13	ALEX122113.SSF	574611.291	41591
721971.506	4294293.772	9948	21-Dec-13	ALEX122113.SSF	574612.2798	41592
721971.885	4294294.302	10797	21-Dec-13	ALEX122113.SSF	574613.3418	41593
721972.091	4294294.643	10109	21-Dec-13	ALEX122113.SSF	574614.1738	41594
721972.552	4294295.271	9337	21-Dec-13	ALEX122113.SSF	574615.3218	41595
721973.019	4294295.954	9594	21-Dec-13	ALEX122113.SSF	574616.2949	41596
721973.511	4294296.765	9148	21-Dec-13	ALEX122113.SSF	574617.3569	41597
721973.91	4294297.499	9247	21-Dec-13	ALEX122113.SSF	574618.3091	41598
721974.431	4294298.175	9271	21-Dec-13	ALEX122113.SSF	574619.3872	41599
721974.812	4294298.582	9697	21-Dec-13	ALEX122113.SSF	574620.3198	41600
721975.126	4294298.979	9264	21-Dec-13	ALEX122113.SSF	574621.3052	41601
721975.5	4294299.448	9546	21-Dec-13	ALEX122113.SSF	574622.1768	41602
721976.037	4294300.349	9676	21-Dec-13	ALEX122113.SSF	574623.2852	41603
721976.534	4294301.054	10609	21-Dec-13	ALEX122113.SSF	574624.1509	41604
721977.073	4294301.793	10872	21-Dec-13	ALEX122113.SSF	574625.207	41605
721977.354	4294302.162	10938	21-Dec-13	ALEX122113.SSF	574626.3599	41606
721977.392	4294302.1	9634	21-Dec-13	ALEX122113.SSF	574627.3262	41607
721977.375	4294301.87	11168	21-Dec-13	ALEX122113.SSF	574628.3242	41608
721977.364	4294301.685	9992	21-Dec-13	ALEX122113.SSF	574629.353	41609
721977.316	4294301.653	10748	21-Dec-13	ALEX122113.SSF	574630.2139	41610
721977.25	4294301.87	9767	21-Dec-13	ALEX122113.SSF	574631.1851	41611
721977.604	4294302.513	10271	21-Dec-13	ALEX122113.SSF	574632.3081	41612
721978.05	4294303.158	10188	21-Dec-13	ALEX122113.SSF	574633.3188	41613
721978.38	4294303.628	9477	21-Dec-13	ALEX122113.SSF	574634.3032	41614
721978.684	4294304.006	8849	21-Dec-13	ALEX122113.SSF	574635.27	41615
721979.09	4294304.477	9382	21-Dec-13	ALEX122113.SSF	574636.2891	41616
721979.728	4294305.042	9665	21-Dec-13	ALEX122113.SSF	574637.2832	41617
721980.302	4294305.652	10006	21-Dec-13	ALEX122113.SSF	574638.3208	41618
721980.668	4294306.06	10781	21-Dec-13	ALEX122113.SSF	574639.3208	41619
721981.1	4294306.473	9865	21-Dec-13	ALEX122113.SSF	574640.3062	41620
721981.536	4294307.112	10656	21-Dec-13	ALEX122113.SSF	574641.3091	41621
721982.075	4294307.791	10734	21-Dec-13	ALEX122113.SSF	574642.3218	41622
721982.532	4294308.332	10783	21-Dec-13	ALEX122113.SSF	574643.377	41623

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721982.842	4294308.729	10256	21-Dec-13	ALEX122113.SSF	574644.397	41624
721983.185	4294309.16	8984	21-Dec-13	ALEX122113.SSF	574645.3291	41625
721983.552	4294309.714	9506	21-Dec-13	ALEX122113.SSF	574646.2661	41626
721984.028	4294310.486	10116	21-Dec-13	ALEX122113.SSF	574647.3442	41627
721984.365	4294311.122	9909	21-Dec-13	ALEX122113.SSF	574648.1968	41628
721984.761	4294311.743	9557	21-Dec-13	ALEX122113.SSF	574649.355	41629
721985.018	4294312.111	9349	21-Dec-13	ALEX122113.SSF	574650.21	41630
721985.402	4294312.586	10347	21-Dec-13	ALEX122113.SSF	574651.3091	41631
721985.887	4294313.097	10297	21-Dec-13	ALEX122113.SSF	574652.248	41632
721986.367	4294313.72	10494	21-Dec-13	ALEX122113.SSF	574653.2402	41633
721986.914	4294314.46	10903	21-Dec-13	ALEX122113.SSF	574654.271	41634
721987.393	4294315.055	9296	21-Dec-13	ALEX122113.SSF	574655.1831	41635
721987.858	4294315.558	10004	21-Dec-13	ALEX122113.SSF	574656.146	41636
721988.21	4294316.009	8951	21-Dec-13	ALEX122113.SSF	574657.3101	41637
721988.397	4294316.345	9557	21-Dec-13	ALEX122113.SSF	574658.2041	41638
721988.843	4294316.949	10009	21-Dec-13	ALEX122113.SSF	574659.2842	41639
721989.282	4294317.563	9702	21-Dec-13	ALEX122113.SSF	574660.0552	41640
721989.871	4294318.318	10345	21-Dec-13	ALEX122113.SSF	574661.2798	41641
721990.279	4294318.709	10086	21-Dec-13	ALEX122113.SSF	574662.1631	41642
721990.715	4294319.427	8941	21-Dec-13	ALEX122113.SSF	574663.27	41643
721991.125	4294319.972	10305	21-Dec-13	ALEX122113.SSF	574664.1841	41644
721991.683	4294320.527	9806	21-Dec-13	ALEX122113.SSF	574665.3101	41645
721992.082	4294321.111	10701	21-Dec-13	ALEX122113.SSF	574666.123	41646
721992.814	4294321.887	8705	21-Dec-13	ALEX122113.SSF	574667.3701	41647
721993.211	4294322.188	10066	21-Dec-13	ALEX122113.SSF	574668.188	41648
721993.316	4294322.323	9866	21-Dec-13	ALEX122113.SSF	574669.2388	41649
721993.381	4294322.233	9036	21-Dec-13	ALEX122113.SSF	574670.105	41650
721993.384	4294322.09	9819	21-Dec-13	ALEX122113.SSF	574671.2529	41651
721993.204	4294322.133	9054	21-Dec-13	ALEX122113.SSF	574672.1211	41652
721992.872	4294322.548	10093	21-Dec-13	ALEX122113.SSF	574673.311	41653
721992.702	4294322.814	8613	21-Dec-13	ALEX122113.SSF	574674.0718	41654
721992.623	4294322.928	8843	21-Dec-13	ALEX122113.SSF	574675.1489	41655
721992.504	4294322.977	9740	21-Dec-13	ALEX122113.SSF	574676.2192	41656
721992.352	4294323.002	10115	21-Dec-13	ALEX122113.SSF	574677.3042	41657
721992.292	4294322.946	9608	21-Dec-13	ALEX122113.SSF	574678.1382	41658
721992.251	4294322.776	9842	21-Dec-13	ALEX122113.SSF	574679.251	41659
721992.12	4294322.687	9810	21-Dec-13	ALEX122113.SSF	574680.2568	41660
721992.073	4294322.598	9682	21-Dec-13	ALEX122113.SSF	574681.3818	41661
721992.06	4294322.535	8960	21-Dec-13	ALEX122113.SSF	574682.1992	41662
721992.079	4294322.448	9800	21-Dec-13	ALEX122113.SSF	574683.3198	41663
721992.107	4294322.39	8960	21-Dec-13	ALEX122113.SSF	574684.1821	41664
721992.096	4294322.355	8510	21-Dec-13	ALEX122113.SSF	574685.291	41665
721992.084	4294322.336	8217	21-Dec-13	ALEX122113.SSF	574686.2441	41666
721992.053	4294322.359	8474	21-Dec-13	ALEX122113.SSF	574687.2788	41667
721992.024	4294322.431	9078	21-Dec-13	ALEX122113.SSF	574688.1372	41668
721991.158	4294321.348	9882	21-Dec-13	ALEX122113.SSF	574691.1611	41671
721990.731	4294320.757	10300	21-Dec-13	ALEX122113.SSF	574692.0151	41672

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721990.225	4294320.276	8755	21-Dec-13	ALEX122113.SSF	574693.125	41673
721989.801	4294319.702	9328	21-Dec-13	ALEX122113.SSF	574694.1362	41674
721989.256	4294319.018	10162	21-Dec-13	ALEX122113.SSF	574695.2749	41675
721988.852	4294318.543	9290	21-Dec-13	ALEX122113.SSF	574696.1768	41676
721988.46	4294317.997	10092	21-Dec-13	ALEX122113.SSF	574697.3311	41677
721988.049	4294317.559	10053	21-Dec-13	ALEX122113.SSF	574698.2861	41678
721987.613	4294317.006	8693	21-Dec-13	ALEX122113.SSF	574699.1738	41679
721987.237	4294316.478	9703	21-Dec-13	ALEX122113.SSF	574700.1592	41680
721986.85	4294316.005	9236	21-Dec-13	ALEX122113.SSF	574701.3101	41681
721986.49	4294315.552	9359	21-Dec-13	ALEX122113.SSF	574702.2422	41682
721985.912	4294314.884	8279	21-Dec-13	ALEX122113.SSF	574703.3101	41683
721985.439	4294314.215	9720	21-Dec-13	ALEX122113.SSF	574704.1821	41684
721985.001	4294313.51	9780	21-Dec-13	ALEX122113.SSF	574705.2402	41685
721984.677	4294313.013	9315	21-Dec-13	ALEX122113.SSF	574706.1479	41686
721984.321	4294312.397	9408	21-Dec-13	ALEX122113.SSF	574707.2441	41687
721983.865	4294311.817	9972	21-Dec-13	ALEX122113.SSF	574708.1162	41688
721983.258	4294310.99	10203	21-Dec-13	ALEX122113.SSF	574709.249	41689
721982.972	4294310.515	9840	21-Dec-13	ALEX122113.SSF	574710.106	41690
721982.691	4294310.062	8310	21-Dec-13	ALEX122113.SSF	574711.2178	41691
721982.496	4294309.557	8655	21-Dec-13	ALEX122113.SSF	574712.082	41692
721981.99	4294308.724	9932	21-Dec-13	ALEX122113.SSF	574713.231	41693
721981.547	4294308.052	10643	21-Dec-13	ALEX122113.SSF	574714.251	41694
721981.225	4294307.626	10370	21-Dec-13	ALEX122113.SSF	574715.189	41695
721980.929	4294307.257	9072	21-Dec-13	ALEX122113.SSF	574716.1001	41696
721980.512	4294306.578	10218	21-Dec-13	ALEX122113.SSF	574717.2451	41697
721980.05	4294306.006	9904	21-Dec-13	ALEX122113.SSF	574718.0952	41698
721979.47	4294305.305	9406	21-Dec-13	ALEX122113.SSF	574719.2378	41699
721979.122	4294304.814	9821	21-Dec-13	ALEX122113.SSF	574720.1709	41700
721978.657	4294304.142	10045	21-Dec-13	ALEX122113.SSF	574721.2559	41701
721978.261	4294303.454	9381	21-Dec-13	ALEX122113.SSF	574722.187	41702
721977.792	4294302.799	8495	21-Dec-13	ALEX122113.SSF	574723.2378	41703
721977.431	4294302.324	9293	21-Dec-13	ALEX122113.SSF	574724.269	41704
721977.193	4294301.893	10063	21-Dec-13	ALEX122113.SSF	574725.2871	41705
721976.873	4294301.482	9146	21-Dec-13	ALEX122113.SSF	574726.1318	41706
721976.164	4294300.605	9936	21-Dec-13	ALEX122113.SSF	574727.2778	41707
721975.647	4294299.935	8904	21-Dec-13	ALEX122113.SSF	574728.1821	41708
721975.231	4294299.391	9516	21-Dec-13	ALEX122113.SSF	574729.3208	41709
721974.981	4294299.045	9099	21-Dec-13	ALEX122113.SSF	574730.313	41710
721974.645	4294298.648	8934	21-Dec-13	ALEX122113.SSF	574731.3032	41711
721974.249	4294298.165	8833	21-Dec-13	ALEX122113.SSF	574732.2402	41712
721973.696	4294297.51	8808	21-Dec-13	ALEX122113.SSF	574733.3101	41713
721973.248	4294296.832	10092	21-Dec-13	ALEX122113.SSF	574734.209	41714
721972.772	4294296.052	9543	21-Dec-13	ALEX122113.SSF	574735.29	41715
721972.433	4294295.568	7905	21-Dec-13	ALEX122113.SSF	574736.2119	41716
721972.047	4294294.997	8726	21-Dec-13	ALEX122113.SSF	574737.3198	41717
721971.554	4294294.4	8601	21-Dec-13	ALEX122113.SSF	574738.2368	41718
721970.995	4294293.588	8780	21-Dec-13	ALEX122113.SSF	574739.2578	41719

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721970.596	4294292.916	9335	21-Dec-13	ALEX122113.SSF	574740.085	41720
721970.122	4294292.33	9263	21-Dec-13	ALEX122113.SSF	574741.165	41721
721969.756	4294291.901	9366	21-Dec-13	ALEX122113.SSF	574742.1729	41722
721969.302	4294291.26	9601	21-Dec-13	ALEX122113.SSF	574743.2539	41723
721968.902	4294290.542	9180	21-Dec-13	ALEX122113.SSF	574744.1851	41724
721968.401	4294289.808	8992	21-Dec-13	ALEX122113.SSF	574745.2861	41725
721968.091	4294289.464	9388	21-Dec-13	ALEX122113.SSF	574746.1201	41726
721967.909	4294289.123	8767	21-Dec-13	ALEX122113.SSF	574747.3169	41727
721967.766	4294288.892	7291	21-Dec-13	ALEX122113.SSF	574748.1279	41728
721967.456	4294288.619	7072	21-Dec-13	ALEX122113.SSF	574749.1948	41729
721967.09	4294288.372	7528	21-Dec-13	ALEX122113.SSF	574750.2871	41730
721966.931	4294288.093	7522	21-Dec-13	ALEX122113.SSF	574751.2988	41731
721966.777	4294287.492	7010	21-Dec-13	ALEX122113.SSF	574752.2222	41732
721966.254	4294286.653	7992	21-Dec-13	ALEX122113.SSF	574753.3232	41733
721965.801	4294286.095	6918	21-Dec-13	ALEX122113.SSF	574754.1621	41734
721965.299	4294285.331	6679	21-Dec-13	ALEX122113.SSF	574755.2749	41735
721964.835	4294284.647	6579	21-Dec-13	ALEX122113.SSF	574756.2271	41736
721964.328	4294283.949	6357	21-Dec-13	ALEX122113.SSF	574757.2861	41737
721964.024	4294283.476	5879	21-Dec-13	ALEX122113.SSF	574758.0889	41738
721963.491	4294282.741	6539	21-Dec-13	ALEX122113.SSF	574759.293	41739
721963.109	4294282.228	6345	21-Dec-13	ALEX122113.SSF	574760.0972	41740
721962.702	4294281.612	6296	21-Dec-13	ALEX122113.SSF	574761.2192	41741
721962.386	4294281.129	5736	21-Dec-13	ALEX122113.SSF	574762.1318	41742
721961.958	4294280.468	6981	21-Dec-13	ALEX122113.SSF	574763.2891	41743
721961.585	4294279.914	6605	21-Dec-13	ALEX122113.SSF	574764.2339	41744
721961.105	4294279.346	6151	21-Dec-13	ALEX122113.SSF	574765.2588	41745
721960.691	4294278.8	6697	21-Dec-13	ALEX122113.SSF	574766.1948	41746
721960.358	4294278.109	6984	21-Dec-13	ALEX122113.SSF	574767.2588	41747
721960.094	4294277.616	6786	21-Dec-13	ALEX122113.SSF	574768.1919	41748
721959.83	4294277.207	7216	21-Dec-13	ALEX122113.SSF	574769.1812	41749
721959.639	4294276.633	7024	21-Dec-13	ALEX122113.SSF	574770.2139	41750
721959.347	4294276.113	7456	21-Dec-13	ALEX122113.SSF	574771.1582	41751
721958.997	4294275.903	6574	21-Dec-13	ALEX122113.SSF	574772.084	41752
721958.796	4294275.957	6185	21-Dec-13	ALEX122113.SSF	574773.27	41753
721958.768	4294275.993	7426	21-Dec-13	ALEX122113.SSF	574774.1152	41754
721958.702	4294276.015	6926	21-Dec-13	ALEX122113.SSF	574775.1191	41755
721958.661	4294276.035	7941	21-Dec-13	ALEX122113.SSF	574775.8872	41756
721958.673	4294276.046	7325	21-Dec-13	ALEX122113.SSF	574777.0918	41757
721958.714	4294276.052	6601	21-Dec-13	ALEX122113.SSF	574778.041	41758
721958.754	4294276.057	7230	21-Dec-13	ALEX122113.SSF	574779.0908	41759
721958.786	4294276.066	7777	21-Dec-13	ALEX122113.SSF	574780.1279	41760
721958.809	4294276.063	7644	21-Dec-13	ALEX122113.SSF	574781.1992	41761
721958.818	4294276.051	7041	21-Dec-13	ALEX122113.SSF	574782.0591	41762
721958.898	4294276.004	7370	21-Dec-13	ALEX122113.SSF	574783.269	41763
721958.93	4294275.981	6912	21-Dec-13	ALEX122113.SSF	574784.1582	41764
721958.939	4294275.972	6888	21-Dec-13	ALEX122113.SSF	574785.2622	41765
721958.958	4294276.007	6792	21-Dec-13	ALEX122113.SSF	574786.2891	41766

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721958.854	4294276.042	7158	21-Dec-13	ALEX122113.SSF	574787.2842	41767
721958.711	4294276.026	8059	21-Dec-13	ALEX122113.SSF	574788.272	41768
721958.684	4294275.961	7624	21-Dec-13	ALEX122113.SSF	574789.3721	41769
721958.627	4294275.932	6976	21-Dec-13	ALEX122113.SSF	574790.2798	41770
721958.459	4294275.971	7834	21-Dec-13	ALEX122113.SSF	574791.311	41771
721958.28	4294275.985	8528	21-Dec-13	ALEX122113.SSF	574792.1279	41772
721957.951	4294276.059	7232	21-Dec-13	ALEX122113.SSF	574793.314	41773
721957.942	4294276.155	7148	21-Dec-13	ALEX122113.SSF	574794.1299	41774
721957.894	4294276.283	7337	21-Dec-13	ALEX122113.SSF	574795.2842	41775
721957.656	4294276.73	7174	21-Dec-13	ALEX122113.SSF	574796.2969	41776
721957.778	4294277	7103	21-Dec-13	ALEX122113.SSF	574797.2671	41777
721957.968	4294276.934	7326	21-Dec-13	ALEX122113.SSF	574798.2539	41778
721957.963	4294276.858	6091	21-Dec-13	ALEX122113.SSF	574799.2661	41779
721957.945	4294276.844	6892	21-Dec-13	ALEX122113.SSF	574800.167	41780
721957.928	4294276.873	6493	21-Dec-13	ALEX122113.SSF	574801.1812	41781
721957.931	4294276.962	7023	21-Dec-13	ALEX122113.SSF	574802.2241	41782
721958.009	4294277.252	7515	21-Dec-13	ALEX122113.SSF	574803.2441	41783
721958.242	4294277.736	7188	21-Dec-13	ALEX122113.SSF	574804.145	41784
721958.637	4294278.491	6357	21-Dec-13	ALEX122113.SSF	574805.2729	41785
721958.809	4294279.021	7559	21-Dec-13	ALEX122113.SSF	574806.0928	41786
721959.254	4294279.822	7470	21-Dec-13	ALEX122113.SSF	574807.3711	41787
721959.508	4294280.321	7237	21-Dec-13	ALEX122113.SSF	574808.0908	41788
721959.822	4294280.83	7959	21-Dec-13	ALEX122113.SSF	574809.1191	41789
721960.257	4294281.425	7059	21-Dec-13	ALEX122113.SSF	574810.2319	41790
721960.655	4294282.111	6805	21-Dec-13	ALEX122113.SSF	574811.2139	41791
721961.035	4294282.709	6762	21-Dec-13	ALEX122113.SSF	574812.1582	41792
721961.573	4294283.282	5360	21-Dec-13	ALEX122113.SSF	574813.2051	41793
721962.069	4294284.06	5722	21-Dec-13	ALEX122113.SSF	574814.272	41794
721962.529	4294284.744	5949	21-Dec-13	ALEX122113.SSF	574815.3179	41795
721962.914	4294285.262	5978	21-Dec-13	ALEX122113.SSF	574816.228	41796
721963.357	4294285.952	6427	21-Dec-13	ALEX122113.SSF	574817.2271	41797
721963.865	4294286.606	6736	21-Dec-13	ALEX122113.SSF	574818.1548	41798
721964.371	4294287.163	6096	21-Dec-13	ALEX122113.SSF	574819.1538	41799
721964.836	4294287.796	6744	21-Dec-13	ALEX122113.SSF	574820.2881	41800
721965.33	4294288.322	6876	21-Dec-13	ALEX122113.SSF	574821.2559	41801
721965.754	4294288.75	7539	21-Dec-13	ALEX122113.SSF	574822.165	41802
721965.993	4294289.199	7344	21-Dec-13	ALEX122113.SSF	574823.3062	41803
721966.235	4294289.588	8436	21-Dec-13	ALEX122113.SSF	574824.103	41804
721966.605	4294290.43	8889	21-Dec-13	ALEX122113.SSF	574825.2729	41805
721966.928	4294290.973	7892	21-Dec-13	ALEX122113.SSF	574826.127	41806
721967.483	4294291.541	8963	21-Dec-13	ALEX122113.SSF	574827.2021	41807
721967.84	4294292.097	9260	21-Dec-13	ALEX122113.SSF	574828.1489	41808
721968.432	4294293.106	7895	21-Dec-13	ALEX122113.SSF	574829.2979	41809
721968.905	4294293.778	8813	21-Dec-13	ALEX122113.SSF	574830.0962	41810
721969.278	4294294.319	10213	21-Dec-13	ALEX122113.SSF	574831.1699	41811
721969.697	4294294.922	8643	21-Dec-13	ALEX122113.SSF	574832.085	41812
721970.325	4294295.97	9930	21-Dec-13	ALEX122113.SSF	574833.3242	41813

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721970.713	4294296.54	9442	21-Dec-13	ALEX122113.SSF	574834.0942	41814
721971.315	4294297.273	9800	21-Dec-13	ALEX122113.SSF	574835.3091	41815
721971.624	4294297.814	10700	21-Dec-13	ALEX122113.SSF	574836.0811	41816
721972.143	4294298.774	10325	21-Dec-13	ALEX122113.SSF	574837.2461	41817
721972.59	4294299.466	8941	21-Dec-13	ALEX122113.SSF	574838.2388	41818
721972.931	4294300.035	9075	21-Dec-13	ALEX122113.SSF	574839.2178	41819
721973.31	4294300.655	10008	21-Dec-13	ALEX122113.SSF	574840.1099	41820
721973.812	4294301.592	9762	21-Dec-13	ALEX122113.SSF	574841.2788	41821
721974.126	4294302.067	10540	21-Dec-13	ALEX122113.SSF	574842.0771	41822
721974.774	4294302.648	10135	21-Dec-13	ALEX122113.SSF	574843.3008	41823
721975.161	4294303.188	10573	21-Dec-13	ALEX122113.SSF	574844.1162	41824
721975.716	4294304.108	10773	21-Dec-13	ALEX122113.SSF	574845.269	41825
721976.082	4294304.654	10733	21-Dec-13	ALEX122113.SSF	574846.0918	41826
721976.421	4294305.215	9523	21-Dec-13	ALEX122113.SSF	574847.311	41827
721976.759	4294305.667	10121	21-Dec-13	ALEX122113.SSF	574848.0601	41828
721977.377	4294306.565	9370	21-Dec-13	ALEX122113.SSF	574849.2422	41829
721977.764	4294307.109	10262	21-Dec-13	ALEX122113.SSF	574850.1602	41830
721978.185	4294307.536	10725	21-Dec-13	ALEX122113.SSF	574851.2842	41831
721978.418	4294307.849	11051	21-Dec-13	ALEX122113.SSF	574852.1099	41832
721978.825	4294308.391	10203	21-Dec-13	ALEX122113.SSF	574853.1992	41833
721979.259	4294308.915	9810	21-Dec-13	ALEX122113.SSF	574854.1118	41834
721979.85	4294309.637	9322	21-Dec-13	ALEX122113.SSF	574855.1729	41835
721980.301	4294310.301	10220	21-Dec-13	ALEX122113.SSF	574856.0229	41836
721980.848	4294310.984	10085	21-Dec-13	ALEX122113.SSF	574857.3291	41837
721981.153	4294311.287	9811	21-Dec-13	ALEX122113.SSF	574858.0879	41838
721981.554	4294311.809	10492	21-Dec-13	ALEX122113.SSF	574859.3398	41839
721981.963	4294312.287	10723	21-Dec-13	ALEX122113.SSF	574860.1519	41840
721982.59	4294313.124	10931	21-Dec-13	ALEX122113.SSF	574861.2939	41841
721982.995	4294313.635	11582	21-Dec-13	ALEX122113.SSF	574862.0742	41842
721983.44	4294314.063	11025	21-Dec-13	ALEX122113.SSF	574863.2808	41843
721983.727	4294314.393	9956	21-Dec-13	ALEX122113.SSF	574864.1362	41844
721984.29	4294314.913	9149	21-Dec-13	ALEX122113.SSF	574865.0879	41845
721984.954	4294315.698	10297	21-Dec-13	ALEX122113.SSF	574866.1162	41846
721985.424	4294316.504	10104	21-Dec-13	ALEX122113.SSF	574867.2119	41847
721985.812	4294317.075	10176	21-Dec-13	ALEX122113.SSF	574868.103	41848
721986.147	4294317.676	11424	21-Dec-13	ALEX122113.SSF	574869.1572	41849
721986.549	4294318.24	9756	21-Dec-13	ALEX122113.SSF	574870.0908	41850
721987.046	4294319.032	9999	21-Dec-13	ALEX122113.SSF	574871.082	41851
721987.521	4294319.74	8919	21-Dec-13	ALEX122113.SSF	574872.0342	41852
721988.127	4294320.3	8380	21-Dec-13	ALEX122113.SSF	574873.1968	41853
721988.554	4294320.784	9115	21-Dec-13	ALEX122113.SSF	574874.0698	41854
721989.203	4294321.687	11428	21-Dec-13	ALEX122113.SSF	574875.2642	41855
721989.64	4294322.25	9937	21-Dec-13	ALEX122113.SSF	574876.0781	41856
721990.003	4294322.755	10074	21-Dec-13	ALEX122113.SSF	574877.1499	41857
721990.429	4294323.112	8098	21-Dec-13	ALEX122113.SSF	574878.0439	41858
721990.881	4294323.832	8534	21-Dec-13	ALEX122113.SSF	574879.2158	41859
721991.349	4294324.44	9273	21-Dec-13	ALEX122113.SSF	574880.1641	41860

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721991.579	4294324.739	9908	21-Dec-13	ALEX122113.SSF	574881.1851	41861
721991.445	4294324.81	10157	21-Dec-13	ALEX122113.SSF	574882.252	41862
721991.215	4294324.863	10279	21-Dec-13	ALEX122113.SSF	574883.3149	41863
721990.977	4294325.049	10039	21-Dec-13	ALEX122113.SSF	574884.0859	41864
721990.491	4294325.339	10310	21-Dec-13	ALEX122113.SSF	574885.2969	41865
721990.189	4294325.256	9147	21-Dec-13	ALEX122113.SSF	574886.1519	41866
721990.125	4294325.003	8467	21-Dec-13	ALEX122113.SSF	574887.2202	41867
721990.176	4294324.929	9466	21-Dec-13	ALEX122113.SSF	574888.1821	41868
721990.196	4294324.908	8846	21-Dec-13	ALEX122113.SSF	574889.3149	41869
721990.189	4294324.87	9711	21-Dec-13	ALEX122113.SSF	574890.1021	41870
721990.124	4294324.897	10138	21-Dec-13	ALEX122113.SSF	574891.0952	41871
721990.07	4294324.983	9794	21-Dec-13	ALEX122113.SSF	574892.1372	41872
721990.043	4294325.076	10518	21-Dec-13	ALEX122113.SSF	574893.1841	41873
721989.952	4294325.154	9559	21-Dec-13	ALEX122113.SSF	574894.126	41874
721989.74	4294324.916	10069	21-Dec-13	ALEX122113.SSF	574895.2422	41875
721989.457	4294324.455	10647	21-Dec-13	ALEX122113.SSF	574896.1152	41876
721989.068	4294323.875	10072	21-Dec-13	ALEX122113.SSF	574897.1328	41877
721988.692	4294323.248	9268	21-Dec-13	ALEX122113.SSF	574898.1328	41878
721988.239	4294322.641	8287	21-Dec-13	ALEX122113.SSF	574899.2661	41879
721987.859	4294322.216	8821	21-Dec-13	ALEX122113.SSF	574900.1411	41880
721987.439	4294321.579	9465	21-Dec-13	ALEX122113.SSF	574901.1172	41881
721987.071	4294320.989	9716	21-Dec-13	ALEX122113.SSF	574902.0332	41882
721986.548	4294320.223	9569	21-Dec-13	ALEX122113.SSF	574903.3042	41883
721986.206	4294319.611	9982	21-Dec-13	ALEX122113.SSF	574904.124	41884
721985.642	4294318.89	9695	21-Dec-13	ALEX122113.SSF	574905.1919	41885
721985.279	4294318.486	9563	21-Dec-13	ALEX122113.SSF	574905.9722	41886
721984.999	4294317.751	9651	21-Dec-13	ALEX122113.SSF	574907.1602	41887
721984.649	4294317.112	10782	21-Dec-13	ALEX122113.SSF	574908.0381	41888
721984.109	4294316.409	9985	21-Dec-13	ALEX122113.SSF	574909.0791	41889
721983.741	4294315.9	9816	21-Dec-13	ALEX122113.SSF	574910.0942	41890
721983.242	4294315.302	10464	21-Dec-13	ALEX122113.SSF	574911.1582	41891
721982.763	4294314.592	10626	21-Dec-13	ALEX122113.SSF	574912.085	41892
721982.237	4294313.857	10936	21-Dec-13	ALEX122113.SSF	574913.249	41893
721981.898	4294313.386	9724	21-Dec-13	ALEX122113.SSF	574914.209	41894
721981.539	4294312.7	10411	21-Dec-13	ALEX122113.SSF	574915.2559	41895
721981.098	4294312.045	9442	21-Dec-13	ALEX122113.SSF	574916.1758	41896
721980.531	4294311.397	10550	21-Dec-13	ALEX122113.SSF	574917.3081	41897
721980.17	4294310.937	10347	21-Dec-13	ALEX122113.SSF	574918.125	41898
721979.649	4294310.103	10357	21-Dec-13	ALEX122113.SSF	574919.2041	41899
721979.159	4294309.347	10089	21-Dec-13	ALEX122113.SSF	574920.1328	41900
721978.619	4294308.873	9122	21-Dec-13	ALEX122113.SSF	574921.2139	41901
721978.261	4294308.576	9240	21-Dec-13	ALEX122113.SSF	574922.1338	41902
721977.934	4294307.944	9660	21-Dec-13	ALEX122113.SSF	574923.3052	41903
721977.563	4294307.287	10335	21-Dec-13	ALEX122113.SSF	574924.1821	41904
721977.042	4294306.455	9723	21-Dec-13	ALEX122113.SSF	574925.1919	41905
721976.57	4294305.73	9661	21-Dec-13	ALEX122113.SSF	574926.084	41906
721976.094	4294305.051	10275	21-Dec-13	ALEX122113.SSF	574927.147	41907

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721975.698	4294304.591	11688	21-Dec-13	ALEX122113.SSF	574928.189	41908
721975.227	4294304.101	10272	21-Dec-13	ALEX122113.SSF	574929.3071	41909
721974.899	4294303.625	10638	21-Dec-13	ALEX122113.SSF	574930.0898	41910
721974.323	4294302.864	10249	21-Dec-13	ALEX122113.SSF	574931.082	41911
721973.845	4294302.014	10212	21-Dec-13	ALEX122113.SSF	574932.1362	41912
721973.488	4294301.385	10713	21-Dec-13	ALEX122113.SSF	574933.1079	41913
721973.145	4294300.911	10358	21-Dec-13	ALEX122113.SSF	574934.1211	41914
721972.892	4294300.519	10989	21-Dec-13	ALEX122113.SSF	574935.1758	41915
721972.705	4294300.143	11147	21-Dec-13	ALEX122113.SSF	574936.106	41916
721972.17	4294299.42	10106	21-Dec-13	ALEX122113.SSF	574937.2788	41917
721971.548	4294298.864	10476	21-Dec-13	ALEX122113.SSF	574938.105	41918
721970.924	4294298.122	9009	21-Dec-13	ALEX122113.SSF	574939.1782	41919
721970.646	4294297.538	8372	21-Dec-13	ALEX122113.SSF	574940.083	41920
721970.063	4294296.723	9833	21-Dec-13	ALEX122113.SSF	574941.2622	41921
721969.637	4294295.985	9598	21-Dec-13	ALEX122113.SSF	574942.1519	41922
721969.278	4294295.334	8909	21-Dec-13	ALEX122113.SSF	574943.1831	41923
721968.991	4294294.935	8977	21-Dec-13	ALEX122113.SSF	574944.0889	41924
721968.705	4294294.393	9174	21-Dec-13	ALEX122113.SSF	574945.1699	41925
721968.369	4294293.793	8743	21-Dec-13	ALEX122113.SSF	574946.0908	41926
721967.815	4294292.82	8636	21-Dec-13	ALEX122113.SSF	574947.2988	41927
721967.422	4294292.247	8759	21-Dec-13	ALEX122113.SSF	574948.083	41928
721966.847	4294291.528	9839	21-Dec-13	ALEX122113.SSF	574949.3252	41929
721966.538	4294291.101	8910	21-Dec-13	ALEX122113.SSF	574950.1221	41930
721966.024	4294290.496	8407	21-Dec-13	ALEX122113.SSF	574951.1162	41931
721965.546	4294289.873	8671	21-Dec-13	ALEX122113.SSF	574952.0308	41932
721965.255	4294289.209	7927	21-Dec-13	ALEX122113.SSF	574953.0762	41933
721965.093	4294288.805	8072	21-Dec-13	ALEX122113.SSF	574953.9731	41934
721964.82	4294288.381	6938	21-Dec-13	ALEX122113.SSF	574955.271	41935
721964.467	4294287.995	7344	21-Dec-13	ALEX122113.SSF	574956.1802	41936
721963.885	4294287.194	7926	21-Dec-13	ALEX122113.SSF	574957.2031	41937
721963.327	4294286.454	6811	21-Dec-13	ALEX122113.SSF	574958.1309	41938
721962.773	4294285.717	6322	21-Dec-13	ALEX122113.SSF	574959.2749	41939
721962.514	4294285.199	6980	21-Dec-13	ALEX122113.SSF	574960.0952	41940
721962.083	4294284.449	5465	21-Dec-13	ALEX122113.SSF	574961.0698	41941
721961.565	4294283.637	5751	21-Dec-13	ALEX122113.SSF	574962.0879	41942
721961.083	4294282.998	5898	21-Dec-13	ALEX122113.SSF	574963.2261	41943
721960.727	4294282.577	6010	21-Dec-13	ALEX122113.SSF	574963.9619	41944
721960.219	4294281.624	5953	21-Dec-13	ALEX122113.SSF	574965.1611	41945
721959.915	4294280.948	5802	21-Dec-13	ALEX122113.SSF	574966.103	41946
721959.539	4294280.357	5746	21-Dec-13	ALEX122113.SSF	574967.2671	41947
721959.255	4294279.882	6375	21-Dec-13	ALEX122113.SSF	574968.0889	41948
721958.655	4294279.159	7143	21-Dec-13	ALEX122113.SSF	574969.1528	41949
721958.113	4294278.557	6975	21-Dec-13	ALEX122113.SSF	574970.0972	41950
721957.821	4294277.832	6723	21-Dec-13	ALEX122113.SSF	574971.1802	41951
721957.563	4294277.232	6721	21-Dec-13	ALEX122113.SSF	574972.1758	41952
721957.283	4294276.709	6390	21-Dec-13	ALEX122113.SSF	574973.1719	41953
721957.14	4294276.442	7657	21-Dec-13	ALEX122113.SSF	574974.0151	41954

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721957.092	4294276.405	6534	21-Dec-13	ALEX122113.SSF	574975.23	41955
721957.042	4294276.461	7303	21-Dec-13	ALEX122113.SSF	574976.1362	41956
721956.808	4294276.593	7196	21-Dec-13	ALEX122113.SSF	574977.271	41957
721956.664	4294276.657	6749	21-Dec-13	ALEX122113.SSF	574978.043	41958
721956.642	4294276.634	7207	21-Dec-13	ALEX122113.SSF	574979.3091	41959
721956.675	4294276.593	7021	21-Dec-13	ALEX122113.SSF	574980.0391	41960
721956.784	4294276.602	6645	21-Dec-13	ALEX122113.SSF	574981.2261	41961
721956.836	4294276.595	7061	21-Dec-13	ALEX122113.SSF	574981.9888	41962
721956.554	4294276.732	7165	21-Dec-13	ALEX122113.SSF	574983.1641	41963
721956.132	4294276.959	6681	21-Dec-13	ALEX122113.SSF	574983.9941	41964
721955.664	4294277.252	6710	21-Dec-13	ALEX122113.SSF	574985.0962	41965
721955.632	4294277.332	6717	21-Dec-13	ALEX122113.SSF	574986.0869	41966
721955.556	4294277.427	7349	21-Dec-13	ALEX122113.SSF	574987.2412	41967
721955.483	4294277.66	7267	21-Dec-13	ALEX122113.SSF	574988.001	41968
721955.449	4294277.926	7066	21-Dec-13	ALEX122113.SSF	574989.2271	41969
721955.43	4294277.997	7226	21-Dec-13	ALEX122113.SSF	574990.0889	41970
721955.403	4294278.409	7296	21-Dec-13	ALEX122113.SSF	574991.1279	41971
721955.499	4294278.884	6624	21-Dec-13	ALEX122113.SSF	574992.0791	41972
721955.933	4294279.301	7236	21-Dec-13	ALEX122113.SSF	574993.1089	41973
721956.357	4294279.854	6249	21-Dec-13	ALEX122113.SSF	574994.0889	41974
721956.869	4294280.551	6482	21-Dec-13	ALEX122113.SSF	574995.082	41975
721957.35	4294281.214	7350	21-Dec-13	ALEX122113.SSF	574996.0581	41976
721957.638	4294281.751	7087	21-Dec-13	ALEX122113.SSF	574997.1719	41977
721957.936	4294282.261	6752	21-Dec-13	ALEX122113.SSF	574998.127	41978
721958.41	4294283.086	6068	21-Dec-13	ALEX122113.SSF	574999.2881	41979
721958.736	4294283.528	5755	21-Dec-13	ALEX122113.SSF	574999.9639	41980
721959.3	4294284.01	5780	21-Dec-13	ALEX122113.SSF	575001.0308	41981
721959.614	4294284.654	5726	21-Dec-13	ALEX122113.SSF	575002.0132	41982
721960.026	4294285.434	5651	21-Dec-13	ALEX122113.SSF	575003.2168	41983
721960.357	4294285.868	5914	21-Dec-13	ALEX122113.SSF	575004.1152	41984
721960.736	4294286.499	6139	21-Dec-13	ALEX122113.SSF	575005.269	41985
721961.12	4294287.058	6007	21-Dec-13	ALEX122113.SSF	575006.082	41986
721961.68	4294287.768	5996	21-Dec-13	ALEX122113.SSF	575007.2622	41987
721961.971	4294288.176	6507	21-Dec-13	ALEX122113.SSF	575008.0811	41988
721962.462	4294288.909	6693	21-Dec-13	ALEX122113.SSF	575009.292	41989
721962.76	4294289.513	8063	21-Dec-13	ALEX122113.SSF	575010.0791	41990
721963.167	4294290.305	8315	21-Dec-13	ALEX122113.SSF	575011.168	41991
721963.622	4294290.907	7299	21-Dec-13	ALEX122113.SSF	575012.0718	41992
721964.028	4294291.448	7794	21-Dec-13	ALEX122113.SSF	575013.0879	41993
721964.361	4294291.966	9028	21-Dec-13	ALEX122113.SSF	575014.1201	41994
721964.69	4294292.632	8917	21-Dec-13	ALEX122113.SSF	575015.0952	41995
721965.059	4294293.204	9339	21-Dec-13	ALEX122113.SSF	575015.9819	41996
721965.551	4294293.826	8904	21-Dec-13	ALEX122113.SSF	575017.1108	41997
721965.938	4294294.465	8346	21-Dec-13	ALEX122113.SSF	575018.0288	41998
721966.557	4294295.271	9016	21-Dec-13	ALEX122113.SSF	575019.0898	41999
721967.16	4294295.988	8974	21-Dec-13	ALEX122113.SSF	575020.1572	42000
721967.542	4294296.497	9623	21-Dec-13	ALEX122113.SSF	575021.1489	42001

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721967.831	4294296.91	8766	21-Dec-13	ALEX122113.SSF	575022.1279	42002
721968.174	4294297.586	9031	21-Dec-13	ALEX122113.SSF	575023.0889	42003
721968.637	4294298.46	9855	21-Dec-13	ALEX122113.SSF	575024.105	42004
721969.063	4294299.408	9437	21-Dec-13	ALEX122113.SSF	575025.0942	42005
721969.46	4294300.022	10249	21-Dec-13	ALEX122113.SSF	575025.9971	42006
721970.06	4294300.61	9312	21-Dec-13	ALEX122113.SSF	575027.2061	42007
721970.324	4294300.97	8868	21-Dec-13	ALEX122113.SSF	575028.0869	42008
721970.825	4294301.449	9387	21-Dec-13	ALEX122113.SSF	575029.1621	42009
721971.274	4294302.01	9006	21-Dec-13	ALEX122113.SSF	575030.0332	42010
721971.861	4294302.763	9541	21-Dec-13	ALEX122113.SSF	575031.0171	42011
721972.413	4294303.403	10845	21-Dec-13	ALEX122113.SSF	575032.1548	42012
721972.751	4294303.952	9911	21-Dec-13	ALEX122113.SSF	575033.1411	42013
721973.109	4294304.482	10068	21-Dec-13	ALEX122113.SSF	575034.0308	42014
721973.605	4294305.384	10317	21-Dec-13	ALEX122113.SSF	575035.1421	42015
721973.979	4294306.106	9989	21-Dec-13	ALEX122113.SSF	575036.064	42016
721974.485	4294306.641	11317	21-Dec-13	ALEX122113.SSF	575037.1958	42017
721974.861	4294307.147	10818	21-Dec-13	ALEX122113.SSF	575038.106	42018
721975.382	4294307.906	9557	21-Dec-13	ALEX122113.SSF	575039.106	42019
721975.84	4294308.631	10249	21-Dec-13	ALEX122113.SSF	575040.1089	42020
721976.239	4294309.176	9942	21-Dec-13	ALEX122113.SSF	575041.1001	42021
721976.656	4294309.547	10675	21-Dec-13	ALEX122113.SSF	575042.0078	42022
721977.158	4294310.09	11279	21-Dec-13	ALEX122113.SSF	575043.0918	42023
721977.663	4294310.656	9329	21-Dec-13	ALEX122113.SSF	575044.103	42024
721978.051	4294311.169	8902	21-Dec-13	ALEX122113.SSF	575045.0698	42025
721978.195	4294311.525	9545	21-Dec-13	ALEX122113.SSF	575046.0449	42026
721978.593	4294311.937	9226	21-Dec-13	ALEX122113.SSF	575047.1401	42027
721978.854	4294312.394	9806	21-Dec-13	ALEX122113.SSF	575047.9648	42028
721979.314	4294313.242	8421	21-Dec-13	ALEX122113.SSF	575049.1118	42029
721979.638	4294313.823	10325	21-Dec-13	ALEX122113.SSF	575050.0161	42030
721979.836	4294314.268	9091	21-Dec-13	ALEX122113.SSF	575051.1099	42031
721980.061	4294314.556	9652	21-Dec-13	ALEX122113.SSF	575052.064	42032
721980.309	4294315.139	10243	21-Dec-13	ALEX122113.SSF	575053.0269	42033
721980.725	4294315.915	9791	21-Dec-13	ALEX122113.SSF	575054.1099	42034
721981.16	4294316.533	9527	21-Dec-13	ALEX122113.SSF	575055.124	42035
721981.451	4294317.107	10601	21-Dec-13	ALEX122113.SSF	575056.02	42036
721982.056	4294317.883	9910	21-Dec-13	ALEX122113.SSF	575057.0811	42037
721982.664	4294318.591	9077	21-Dec-13	ALEX122113.SSF	575058.02	42038
721983.139	4294319.13	10699	21-Dec-13	ALEX122113.SSF	575059.1001	42039
721983.551	4294319.426	9424	21-Dec-13	ALEX122113.SSF	575060.019	42040
721984.136	4294320.076	10006	21-Dec-13	ALEX122113.SSF	575061.1431	42041
721984.713	4294320.803	9371	21-Dec-13	ALEX122113.SSF	575062.083	42042
721985.245	4294321.572	10173	21-Dec-13	ALEX122113.SSF	575063.1172	42043
721985.554	4294321.987	9263	21-Dec-13	ALEX122113.SSF	575063.9922	42044
721985.996	4294322.412	9095	21-Dec-13	ALEX122113.SSF	575065.0879	42045
721986.414	4294323.066	10194	21-Dec-13	ALEX122113.SSF	575065.9932	42046
721986.927	4294323.83	9688	21-Dec-13	ALEX122113.SSF	575067.146	42047
721987.355	4294324.247	9712	21-Dec-13	ALEX122113.SSF	575068.0181	42048

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721987.778	4294324.753	8878	21-Dec-13	ALEX122113.SSF	575069.0571	42049
721988.243	4294325.242	9239	21-Dec-13	ALEX122113.SSF	575069.9248	42050
721988.915	4294326.04	9210	21-Dec-13	ALEX122113.SSF	575071.228	42051
721989.139	4294326.412	9982	21-Dec-13	ALEX122113.SSF	575071.9492	42052
721989.481	4294326.785	9905	21-Dec-13	ALEX122113.SSF	575073.124	42053
721989.662	4294326.999	9586	21-Dec-13	ALEX122113.SSF	575073.9541	42054
721989.549	4294327.462	9506	21-Dec-13	ALEX122113.SSF	575075.0708	42055
721989.157	4294327.858	9696	21-Dec-13	ALEX122113.SSF	575076.0791	42056
721988.753	4294328.09	10554	21-Dec-13	ALEX122113.SSF	575077.1821	42057
721988.73	4294328.193	10437	21-Dec-13	ALEX122113.SSF	575078.062	42058
721988.79	4294328.14	9854	21-Dec-13	ALEX122113.SSF	575079.1079	42059
721988.713	4294328.014	9213	21-Dec-13	ALEX122113.SSF	575080.0552	42060
721988.689	4294327.954	8873	21-Dec-13	ALEX122113.SSF	575081.0791	42061
721988.682	4294327.895	9268	21-Dec-13	ALEX122113.SSF	575081.9771	42062
721988.586	4294327.85	9457	21-Dec-13	ALEX122113.SSF	575082.9771	42063
721988.62	4294327.803	8814	21-Dec-13	ALEX122113.SSF	575083.9731	42064
721988.638	4294327.784	9253	21-Dec-13	ALEX122113.SSF	575085.0771	42065
721988.703	4294327.75	9513	21-Dec-13	ALEX122113.SSF	575086.146	42066
721988.72	4294327.662	9488	21-Dec-13	ALEX122113.SSF	575087.5469	42067
721988.731	4294327.629	9242	21-Dec-13	ALEX122113.SSF	575088.0591	42068
721988.76	4294327.577	9780	21-Dec-13	ALEX122113.SSF	575089.1792	42069
721988.775	4294327.543	9165	21-Dec-13	ALEX122113.SSF	575090.0698	42070
721988.772	4294327.516	8411	21-Dec-13	ALEX122113.SSF	575091.0581	42071
721988.716	4294327.531	9393	21-Dec-13	ALEX122113.SSF	575091.9429	42072
721988.651	4294327.594	8858	21-Dec-13	ALEX122113.SSF	575093.0308	42073
721988.605	4294327.631	9324	21-Dec-13	ALEX122113.SSF	575094.0132	42074
721988.558	4294327.517	9051	21-Dec-13	ALEX122113.SSF	575095.0811	42075
721988.391	4294327.257	10482	21-Dec-13	ALEX122113.SSF	575096.019	42076
721987.874	4294326.635	9190	21-Dec-13	ALEX122113.SSF	575097.1431	42077
721987.436	4294326.116	9197	21-Dec-13	ALEX122113.SSF	575098.0151	42078
721987.058	4294325.575	9349	21-Dec-13	ALEX122113.SSF	575099.0791	42079
721986.614	4294325.079	9567	21-Dec-13	ALEX122113.SSF	575099.9399	42080
721986.113	4294324.292	8962	21-Dec-13	ALEX122113.SSF	575101.0942	42081
721985.826	4294323.794	9170	21-Dec-13	ALEX122113.SSF	575102.0171	42082
721985.453	4294323.446	9042	21-Dec-13	ALEX122113.SSF	575103.0859	42083
721985.026	4294322.901	9340	21-Dec-13	ALEX122113.SSF	575104.1421	42084
721984.601	4294322.28	10495	21-Dec-13	ALEX122113.SSF	575105.0581	42085
721984.089	4294321.494	9703	21-Dec-13	ALEX122113.SSF	575106.1001	42086
721983.573	4294320.846	9176	21-Dec-13	ALEX122113.SSF	575107.1729	42087
721983.297	4294320.471	9614	21-Dec-13	ALEX122113.SSF	575107.8999	42088
721982.886	4294319.851	9813	21-Dec-13	ALEX122113.SSF	575109.1338	42089
721982.569	4294319.501	9173	21-Dec-13	ALEX122113.SSF	575109.9419	42090
721982.335	4294319.07	9583	21-Dec-13	ALEX122113.SSF	575111.0991	42091
721982.088	4294318.688	11186	21-Dec-13	ALEX122113.SSF	575112.0259	42092
721981.63	4294317.982	9186	21-Dec-13	ALEX122113.SSF	575113.2002	42093
721981.262	4294317.455	10066	21-Dec-13	ALEX122113.SSF	575114.0288	42094
721980.801	4294316.941	9116	21-Dec-13	ALEX122113.SSF	575114.9761	42095

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721980.495	4294316.46	9899	21-Dec-13	ALEX122113.SSF	575115.9341	42096
721980.04	4294315.864	9885	21-Dec-13	ALEX122113.SSF	575117.0352	42097
721979.611	4294315.268	9671	21-Dec-13	ALEX122113.SSF	575117.9932	42098
721979.229	4294314.697	10157	21-Dec-13	ALEX122113.SSF	575119.0991	42099
721978.954	4294314.261	9409	21-Dec-13	ALEX122113.SSF	575120.0581	42100
721978.522	4294313.397	10902	21-Dec-13	ALEX122113.SSF	575121.2231	42101
721978.135	4294312.877	10855	21-Dec-13	ALEX122113.SSF	575121.9868	42102
721977.576	4294312.262	10484	21-Dec-13	ALEX122113.SSF	575123.2329	42103
721977.303	4294311.823	8861	21-Dec-13	ALEX122113.SSF	575124.0322	42104
721976.704	4294311.138	9295	21-Dec-13	ALEX122113.SSF	575125.0601	42105
721976.154	4294310.383	9913	21-Dec-13	ALEX122113.SSF	575126.002	42106
721975.729	4294309.777	9228	21-Dec-13	ALEX122113.SSF	575127.1152	42107
721975.371	4294309.462	9657	21-Dec-13	ALEX122113.SSF	575128.0869	42108
721975.026	4294309.03	9014	21-Dec-13	ALEX122113.SSF	575129.0469	42109
721974.561	4294308.467	10023	21-Dec-13	ALEX122113.SSF	575129.9341	42110
721974.003	4294307.667	9615	21-Dec-13	ALEX122113.SSF	575131.0371	42111
721973.739	4294307.179	9993	21-Dec-13	ALEX122113.SSF	575131.9438	42112
721973.395	4294306.733	10898	21-Dec-13	ALEX122113.SSF	575133.0059	42113
721973.102	4294306.262	8724	21-Dec-13	ALEX122113.SSF	575133.9521	42114
721972.538	4294305.508	9021	21-Dec-13	ALEX122113.SSF	575135.1392	42115
721972.111	4294304.829	10115	21-Dec-13	ALEX122113.SSF	575136.0142	42116
721971.556	4294304.087	10088	21-Dec-13	ALEX122113.SSF	575137.0811	42117
721971.073	4294303.56	9452	21-Dec-13	ALEX122113.SSF	575138.083	42118
721970.74	4294303.105	9473	21-Dec-13	ALEX122113.SSF	575139.103	42119
721970.45	4294302.67	9868	21-Dec-13	ALEX122113.SSF	575140.0342	42120
721970.143	4294302.104	10207	21-Dec-13	ALEX122113.SSF	575140.96	42121
721969.6	4294301.278	9661	21-Dec-13	ALEX122113.SSF	575142.0479	42122
721969.127	4294300.675	9705	21-Dec-13	ALEX122113.SSF	575142.9858	42123
721968.672	4294300.192	8816	21-Dec-13	ALEX122113.SSF	575144.0889	42124
721968.261	4294299.789	8774	21-Dec-13	ALEX122113.SSF	575145.0708	42125
721967.973	4294299.331	8913	21-Dec-13	ALEX122113.SSF	575146.0122	42126
721967.64	4294298.624	10328	21-Dec-13	ALEX122113.SSF	575147.188	42127
721967.281	4294297.943	10202	21-Dec-13	ALEX122113.SSF	575148.1631	42128
721966.849	4294297.164	11190	21-Dec-13	ALEX122113.SSF	575149.1172	42129
721966.372	4294296.325	9817	21-Dec-13	ALEX122113.SSF	575150.0811	42130
721965.944	4294295.679	9504	21-Dec-13	ALEX122113.SSF	575151.0649	42131
721965.531	4294295.283	9696	21-Dec-13	ALEX122113.SSF	575152.001	42132
721965.167	4294294.828	9174	21-Dec-13	ALEX122113.SSF	575153.0649	42133
721964.692	4294294.293	8773	21-Dec-13	ALEX122113.SSF	575154.0488	42134
721964.147	4294293.479	8493	21-Dec-13	ALEX122113.SSF	575155.0708	42135
721963.789	4294292.728	9113	21-Dec-13	ALEX122113.SSF	575155.936	42136
721963.283	4294292.02	9058	21-Dec-13	ALEX122113.SSF	575157.0181	42137
721962.877	4294291.421	8504	21-Dec-13	ALEX122113.SSF	575157.9468	42138
721962.317	4294290.639	7916	21-Dec-13	ALEX122113.SSF	575159.1079	42139
721961.969	4294290.172	7618	21-Dec-13	ALEX122113.SSF	575159.8779	42140
721961.602	4294289.594	7537	21-Dec-13	ALEX122113.SSF	575161.0649	42141
721961.288	4294289.183	7074	21-Dec-13	ALEX122113.SSF	575161.9639	42142

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721960.85	4294288.41	7618	21-Dec-13	ALEX122113.SSF	575163.1548	42143
721960.619	4294287.981	7424	21-Dec-13	ALEX122113.SSF	575163.9351	42144
721960.347	4294287.517	7706	21-Dec-13	ALEX122113.SSF	575165.0991	42145
721960.071	4294287.103	6096	21-Dec-13	ALEX122113.SSF	575165.9609	42146
721959.596	4294286.506	6714	21-Dec-13	ALEX122113.SSF	575167.1182	42147
721959.348	4294286.083	6568	21-Dec-13	ALEX122113.SSF	575167.9629	42148
721959.088	4294285.43	6502	21-Dec-13	ALEX122113.SSF	575169.0171	42149
721958.748	4294284.554	6185	21-Dec-13	ALEX122113.SSF	575170.145	42150
721958.251	4294283.791	5836	21-Dec-13	ALEX122113.SSF	575171.1519	42151
721957.782	4294283.202	6012	21-Dec-13	ALEX122113.SSF	575172.0479	42152
721957.412	4294282.706	5789	21-Dec-13	ALEX122113.SSF	575173.0781	42153
721957.026	4294282.242	6206	21-Dec-13	ALEX122113.SSF	575174.0361	42154
721956.673	4294281.614	6651	21-Dec-13	ALEX122113.SSF	575175.064	42155
721956.378	4294281.006	6732	21-Dec-13	ALEX122113.SSF	575176.0181	42156
721956.015	4294280.53	6813	21-Dec-13	ALEX122113.SSF	575177.0298	42157
721955.804	4294280.144	6983	21-Dec-13	ALEX122113.SSF	575178.021	42158
721955.444	4294279.486	7835	21-Dec-13	ALEX122113.SSF	575179.1392	42159
721955.199	4294278.932	6819	21-Dec-13	ALEX122113.SSF	575180.0479	42160
721954.966	4294278.542	6744	21-Dec-13	ALEX122113.SSF	575181.0698	42161
721954.714	4294278.3	7356	21-Dec-13	ALEX122113.SSF	575182.0259	42162
721954.68	4294278.107	6849	21-Dec-13	ALEX122113.SSF	575183.0708	42163
721954.795	4294278.069	6482	21-Dec-13	ALEX122113.SSF	575184.019	42164
721954.898	4294277.99	6360	21-Dec-13	ALEX122113.SSF	575185.0942	42165
721954.889	4294277.954	6930	21-Dec-13	ALEX122113.SSF	575185.958	42166
721954.721	4294278.032	7222	21-Dec-13	ALEX122113.SSF	575186.9912	42167
721954.452	4294278.068	7265	21-Dec-13	ALEX122113.SSF	575187.9341	42168
721954.069	4294278.131	7336	21-Dec-13	ALEX122113.SSF	575189.041	42169
721953.915	4294278.142	6544	21-Dec-13	ALEX122113.SSF	575189.9922	42170
721953.906	4294278.148	6676	21-Dec-13	ALEX122113.SSF	575191.001	42171
721953.845	4294278.159	6259	21-Dec-13	ALEX122113.SSF	575191.9668	42172
721953.6	4294278.139	7024	21-Dec-13	ALEX122113.SSF	575193.0371	42173
721953.397	4294278.114	6766	21-Dec-13	ALEX122113.SSF	575193.9409	42174
721953.353	4294278.135	6761	21-Dec-13	ALEX122113.SSF	575195.1411	42175
721953.297	4294278.304	6460	21-Dec-13	ALEX122113.SSF	575196.0259	42176
721953.12	4294278.579	7465	21-Dec-13	ALEX122113.SSF	575197.0659	42177
721953.125	4294278.709	6756	21-Dec-13	ALEX122113.SSF	575197.998	42178
721953.171	4294278.798	7179	21-Dec-13	ALEX122113.SSF	575199.1099	42179
721953.355	4294278.759	5964	21-Dec-13	ALEX122113.SSF	575200.0581	42180
721953.47	4294278.695	6310	21-Dec-13	ALEX122113.SSF	575201.0508	42181
721953.547	4294278.706	6617	21-Dec-13	ALEX122113.SSF	575201.9971	42182
721953.604	4294278.972	6426	21-Dec-13	ALEX122113.SSF	575202.9868	42183
721953.732	4294279.47	6796	21-Dec-13	ALEX122113.SSF	575203.9292	42184
721953.896	4294280.196	7579	21-Dec-13	ALEX122113.SSF	575205.1592	42185
721953.973	4294280.522	7834	21-Dec-13	ALEX122113.SSF	575205.939	42186
721954.149	4294280.853	7418	21-Dec-13	ALEX122113.SSF	575207.0649	42187
721954.384	4294281.061	7584	21-Dec-13	ALEX122113.SSF	575208.0708	42188
721954.54	4294281.439	7866	21-Dec-13	ALEX122113.SSF	575209.041	42189

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721954.885	4294282.008	7306	21-Dec-13	ALEX122113.SSF	575210.105	42190
721955.329	4294282.626	6596	21-Dec-13	ALEX122113.SSF	575210.9922	42191
721955.654	4294283.181	6509	21-Dec-13	ALEX122113.SSF	575211.9868	42192
721956.065	4294283.76	6457	21-Dec-13	ALEX122113.SSF	575213.0591	42193
721956.312	4294284.362	5646	21-Dec-13	ALEX122113.SSF	575213.9551	42194
721956.47	4294284.703	6108	21-Dec-13	ALEX122113.SSF	575215.0298	42195
721956.61	4294284.683	5274	21-Dec-13	ALEX122113.SSF	575216.0342	42196
721956.646	4294284.627	5585	21-Dec-13	ALEX122113.SSF	575216.9961	42197
721956.69	4294284.688	5811	21-Dec-13	ALEX122113.SSF	575218.0151	42198
721956.892	4294285.18	5841	21-Dec-13	ALEX122113.SSF	575219.147	42199
721957.176	4294285.862	5805	21-Dec-13	ALEX122113.SSF	575220.2202	42200
721957.426	4294286.228	6347	21-Dec-13	ALEX122113.SSF	575220.792	42201
721957.849	4294286.865	5246	21-Dec-13	ALEX122113.SSF	575221.771	42202
721958.194	4294287.391	5523	21-Dec-13	ALEX122113.SSF	575222.8188	42203
721958.568	4294287.774	6511	21-Dec-13	ALEX122113.SSF	575223.6572	42204
721959.214	4294288.688	6041	21-Dec-13	ALEX122113.SSF	575225.105	42205
721959.512	4294289.247	5978	21-Dec-13	ALEX122113.SSF	575226.0088	42206
721959.918	4294289.854	6438	21-Dec-13	ALEX122113.SSF	575227.0811	42207
721960.276	4294290.469	7129	21-Dec-13	ALEX122113.SSF	575228.0298	42208
721960.675	4294291.159	6792	21-Dec-13	ALEX122113.SSF	575229.0781	42209
721961.022	4294291.657	7728	21-Dec-13	ALEX122113.SSF	575230.0391	42210
721961.339	4294292.269	8022	21-Dec-13	ALEX122113.SSF	575230.9868	42211
721961.754	4294292.801	8335	21-Dec-13	ALEX122113.SSF	575231.9258	42212
721962.234	4294293.2	8474	21-Dec-13	ALEX122113.SSF	575232.9868	42213
721962.485	4294293.834	8388	21-Dec-13	ALEX122113.SSF	575233.958	42214
721962.929	4294294.772	8487	21-Dec-13	ALEX122113.SSF	575235.1572	42215
721963.311	4294295.288	9201	21-Dec-13	ALEX122113.SSF	575235.9321	42216
721963.634	4294295.9	10070	21-Dec-13	ALEX122113.SSF	575236.9438	42217
721964.014	4294296.517	9297	21-Dec-13	ALEX122113.SSF	575237.8979	42218
721964.565	4294297.346	9944	21-Dec-13	ALEX122113.SSF	575239.063	42219
721964.826	4294297.826	10076	21-Dec-13	ALEX122113.SSF	575239.9551	42220
721965.12	4294298.175	9029	21-Dec-13	ALEX122113.SSF	575241.0371	42221
721965.339	4294298.573	10267	21-Dec-13	ALEX122113.SSF	575242.001	42222
721965.857	4294299.281	9676	21-Dec-13	ALEX122113.SSF	575243.0898	42223
721966.775	4294300.803	8869	21-Dec-13	ALEX122113.SSF	575244.9902	42225
721967.206	4294301.269	10527	21-Dec-13	ALEX122113.SSF	575245.8408	42226
721967.556	4294301.725	9862	21-Dec-13	ALEX122113.SSF	575246.8818	42227
721967.828	4294302.163	9395	21-Dec-13	ALEX122113.SSF	575247.8271	42228
721968.266	4294302.87	10058	21-Dec-13	ALEX122113.SSF	575249.0981	42229
721968.624	4294303.405	9594	21-Dec-13	ALEX122113.SSF	575249.917	42230
721969.181	4294304.311	10258	21-Dec-13	ALEX122113.SSF	575251.042	42231
721969.691	4294305.008	9824	21-Dec-13	ALEX122113.SSF	575252.002	42232
721970.136	4294305.517	10406	21-Dec-13	ALEX122113.SSF	575253.0542	42233
721970.367	4294305.907	9891	21-Dec-13	ALEX122113.SSF	575254.0078	42234
721970.817	4294306.525	11172	21-Dec-13	ALEX122113.SSF	575255.0972	42235
721971.297	4294307.236	10503	21-Dec-13	ALEX122113.SSF	575255.9829	42236
721971.941	4294308.118	9495	21-Dec-13	ALEX122113.SSF	575257.0991	42237

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721972.462	4294308.725	10293	21-Dec-13	ALEX122113.SSF	575258.0029	42238
721972.802	4294309.242	10943	21-Dec-13	ALEX122113.SSF	575259.1001	42239
721973.548	4294310.441	10576	21-Dec-13	ALEX122113.SSF	575260.9248	42241
721974.135	4294311.215	10144	21-Dec-13	ALEX122113.SSF	575261.9238	42242
721974.667	4294311.884	9016	21-Dec-13	ALEX122113.SSF	575262.916	42243
721974.936	4294312.247	9484	21-Dec-13	ALEX122113.SSF	575263.8809	42244
721975.434	4294312.723	10651	21-Dec-13	ALEX122113.SSF	575265.106	42245
721975.813	4294313.368	11272	21-Dec-13	ALEX122113.SSF	575265.9868	42246
721976.335	4294314.14	10798	21-Dec-13	ALEX122113.SSF	575267.0459	42247
721976.864	4294314.735	9269	21-Dec-13	ALEX122113.SSF	575268.105	42248
721977.304	4294315.152	10627	21-Dec-13	ALEX122113.SSF	575269.0942	42249
721977.682	4294315.516	9106	21-Dec-13	ALEX122113.SSF	575270.0249	42250
721977.915	4294315.923	9626	21-Dec-13	ALEX122113.SSF	575271	42251
721978.39	4294316.447	9306	21-Dec-13	ALEX122113.SSF	575271.957	42252
721978.888	4294317.325	10516	21-Dec-13	ALEX122113.SSF	575273.0088	42253
721979.315	4294318.008	11119	21-Dec-13	ALEX122113.SSF	575273.9678	42254
721979.843	4294318.644	9919	21-Dec-13	ALEX122113.SSF	575275.0781	42255
721980.194	4294319.136	9980	21-Dec-13	ALEX122113.SSF	575275.8921	42256
721980.768	4294319.954	10085	21-Dec-13	ALEX122113.SSF	575277.0161	42257
721981.24	4294320.749	9991	21-Dec-13	ALEX122113.SSF	575277.9888	42258
721981.552	4294321.355	9817	21-Dec-13	ALEX122113.SSF	575279.0298	42259
721981.853	4294321.775	9354	21-Dec-13	ALEX122113.SSF	575279.897	42260
721982.279	4294322.442	8728	21-Dec-13	ALEX122113.SSF	575280.9248	42261
721982.794	4294323.181	9322	21-Dec-13	ALEX122113.SSF	575281.9009	42262
721983.282	4294323.784	9860	21-Dec-13	ALEX122113.SSF	575282.917	42263
721983.559	4294324.205	9455	21-Dec-13	ALEX122113.SSF	575283.7822	42264
721984.101	4294324.938	8453	21-Dec-13	ALEX122113.SSF	575284.939	42265
721984.569	4294325.578	9133	21-Dec-13	ALEX122113.SSF	575285.8311	42266
721985.075	4294326.178	9633	21-Dec-13	ALEX122113.SSF	575287.0718	42267
721985.42	4294326.489	8858	21-Dec-13	ALEX122113.SSF	575287.9609	42268
721985.835	4294327.017	9534	21-Dec-13	ALEX122113.SSF	575288.9722	42269
721986.385	4294327.603	9823	21-Dec-13	ALEX122113.SSF	575289.9541	42270
721987.157	4294328.541	9626	21-Dec-13	ALEX122113.SSF	575291.1382	42271
721987.51	4294328.997	9426	21-Dec-13	ALEX122113.SSF	575291.8511	42272
721987.882	4294329.4	8206	21-Dec-13	ALEX122113.SSF	575293.0332	42273
721987.828	4294329.678	9101	21-Dec-13	ALEX122113.SSF	575293.979	42274
721987.437	4294329.573	9295	21-Dec-13	ALEX122113.SSF	575295.0049	42275
721987.156	4294329.77	9164	21-Dec-13	ALEX122113.SSF	575295.8252	42276
721986.875	4294330.297	10061	21-Dec-13	ALEX122113.SSF	575297.0698	42277
721986.954	4294330.526	9565	21-Dec-13	ALEX122113.SSF	575297.8169	42278
721986.872	4294330.837	9201	21-Dec-13	ALEX122113.SSF	575298.9302	42279
721986.896	4294330.935	8990	21-Dec-13	ALEX122113.SSF	575299.8662	42280
721987.017	4294330.997	8307	21-Dec-13	ALEX122113.SSF	575300.9302	42281
721987.147	4294330.946	9847	21-Dec-13	ALEX122113.SSF	575301.832	42282
721987.308	4294330.818	8671	21-Dec-13	ALEX122113.SSF	575303.042	42283
721987.37	4294330.773	7507	21-Dec-13	ALEX122113.SSF	575303.9248	42284
721987.381	4294330.737	7937	21-Dec-13	ALEX122113.SSF	575305.0791	42285

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721987.352	4294330.722	8974	21-Dec-13	ALEX122113.SSF	575305.9858	42286
721987.328	4294330.73	8633	21-Dec-13	ALEX122113.SSF	575307.1079	42287
721987.321	4294330.744	8908	21-Dec-13	ALEX122113.SSF	575308.021	42288
721987.319	4294330.766	9247	21-Dec-13	ALEX122113.SSF	575309.0752	42289
721987.304	4294330.783	8431	21-Dec-13	ALEX122113.SSF	575309.9849	42290
721987.281	4294330.794	9097	21-Dec-13	ALEX122113.SSF	575311.5439	42291
721987.273	4294330.799	8514	21-Dec-13	ALEX122113.SSF	575312.0142	42292
721987.249	4294330.806	8968	21-Dec-13	ALEX122113.SSF	575313.0581	42293
721987.217	4294330.819	9352	21-Dec-13	ALEX122113.SSF	575314.085	42294
721987.212	4294330.814	8758	21-Dec-13	ALEX122113.SSF	575315.0342	42295
721987.105	4294330.442	7669	21-Dec-13	ALEX122113.SSF	575409.875	42296
721987.1	4294330.428	8037	21-Dec-13	ALEX122113.SSF	575410.9331	42297
721987.092	4294330.45	8159	21-Dec-13	ALEX122113.SSF	575411.8628	42298
721987.069	4294330.528	8370	21-Dec-13	ALEX122113.SSF	575412.9761	42299
721987.087	4294330.53	9532	21-Dec-13	ALEX122113.SSF	575413.8711	42300
721987.052	4294330.565	9253	21-Dec-13	ALEX122113.SSF	575414.876	42301
721987.031	4294330.601	9153	21-Dec-13	ALEX122113.SSF	575415.8379	42302
721987.029	4294330.631	8078	21-Dec-13	ALEX122113.SSF	575416.9048	42303
721987.039	4294330.649	8469	21-Dec-13	ALEX122113.SSF	575417.9209	42304
721987.04	4294330.647	7667	21-Dec-13	ALEX122113.SSF	575418.9331	42305
721987.032	4294330.641	9326	21-Dec-13	ALEX122113.SSF	575419.9102	42306
721987.044	4294330.649	8631	21-Dec-13	ALEX122113.SSF	575420.9282	42307
721987.055	4294330.65	8908	21-Dec-13	ALEX122113.SSF	575421.9932	42308
721987.02	4294330.669	9997	21-Dec-13	ALEX122113.SSF	575423.0962	42309
721987.035	4294330.661	9069	21-Dec-13	ALEX122113.SSF	575423.9839	42310
721987.053	4294330.594	9077	21-Dec-13	ALEX122113.SSF	575425.021	42311
721987.046	4294330.562	9229	21-Dec-13	ALEX122113.SSF	575425.8218	42312
721986.939	4294330.567	8217	21-Dec-13	ALEX122113.SSF	575426.9922	42313
721986.828	4294330.528	8834	21-Dec-13	ALEX122113.SSF	575427.8882	42314
721986.898	4294330.374	8958	21-Dec-13	ALEX122113.SSF	575428.958	42315
721987.039	4294330.27	9499	21-Dec-13	ALEX122113.SSF	575429.8188	42316
721987.154	4294330.199	8614	21-Dec-13	ALEX122113.SSF	575431.0742	42317
721987.105	4294330.218	8603	21-Dec-13	ALEX122113.SSF	575431.8262	42318
721986.974	4294330.303	8541	21-Dec-13	ALEX122113.SSF	575432.978	42319
721986.89	4294330.132	8705	21-Dec-13	ALEX122113.SSF	575433.793	42320
721986.7	4294330.06	9886	21-Dec-13	ALEX122113.SSF	575434.9302	42321
721986.561	4294330.266	8801	21-Dec-13	ALEX122113.SSF	575435.771	42322
721986.304	4294330.515	8380	21-Dec-13	ALEX122113.SSF	575436.9028	42323
721986.026	4294330.363	8035	21-Dec-13	ALEX122113.SSF	575437.8281	42324
721985.895	4294330.035	9358	21-Dec-13	ALEX122113.SSF	575438.8672	42325
721985.813	4294329.829	8729	21-Dec-13	ALEX122113.SSF	575439.7979	42326
721985.547	4294329.526	9832	21-Dec-13	ALEX122113.SSF	575440.979	42327
721985.241	4294329.08	9448	21-Dec-13	ALEX122113.SSF	575441.9141	42328
721984.769	4294328.644	8452	21-Dec-13	ALEX122113.SSF	575443.0801	42329
721984.467	4294328.32	8923	21-Dec-13	ALEX122113.SSF	575443.9092	42330
721984.183	4294327.847	9790	21-Dec-13	ALEX122113.SSF	575444.9312	42331
721983.697	4294327.249	9977	21-Dec-13	ALEX122113.SSF	575445.916	42332

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721983.161	4294326.612	9334	21-Dec-13	ALEX122113.SSF	575446.918	42333
721982.867	4294326.184	9653	21-Dec-13	ALEX122113.SSF	575447.8408	42334
721982.496	4294325.599	9373	21-Dec-13	ALEX122113.SSF	575448.917	42335
721982.148	4294325.012	9783	21-Dec-13	ALEX122113.SSF	575449.8311	42336
721981.602	4294324.283	8625	21-Dec-13	ALEX122113.SSF	575450.978	42337
721981.261	4294323.786	9356	21-Dec-13	ALEX122113.SSF	575451.8589	42338
721981.002	4294323.26	8549	21-Dec-13	ALEX122113.SSF	575452.9629	42339
721980.651	4294322.769	8707	21-Dec-13	ALEX122113.SSF	575453.834	42340
721980.16	4294321.944	9526	21-Dec-13	ALEX122113.SSF	575454.9541	42341
721979.828	4294321.327	9431	21-Dec-13	ALEX122113.SSF	575455.8589	42342
721978.884	4294320.076	8599	21-Dec-13	ALEX122113.SSF	575457.9019	42344
721978.466	4294319.447	10249	21-Dec-13	ALEX122113.SSF	575458.9302	42345
721978.026	4294319.004	9462	21-Dec-13	ALEX122113.SSF	575459.8599	42346
721977.501	4294318.429	9715	21-Dec-13	ALEX122113.SSF	575460.8638	42347
721976.985	4294317.908	9597	21-Dec-13	ALEX122113.SSF	575461.792	42348
721976.537	4294317.333	8009	21-Dec-13	ALEX122113.SSF	575462.9121	42349
721976.273	4294316.953	9832	21-Dec-13	ALEX122113.SSF	575463.7891	42350
721975.759	4294316.283	9898	21-Dec-13	ALEX122113.SSF	575464.9219	42351
721975.411	4294315.65	10274	21-Dec-13	ALEX122113.SSF	575465.7632	42352
721974.964	4294314.942	11148	21-Dec-13	ALEX122113.SSF	575466.9302	42353
721974.53	4294314.469	9957	21-Dec-13	ALEX122113.SSF	575467.8052	42354
721973.923	4294313.631	11459	21-Dec-13	ALEX122113.SSF	575468.9419	42355
721973.65	4294313.144	10065	21-Dec-13	ALEX122113.SSF	575469.7612	42356
721973.268	4294312.525	9686	21-Dec-13	ALEX122113.SSF	575470.9702	42357
721973.008	4294312.006	8601	21-Dec-13	ALEX122113.SSF	575471.8809	42358
721972.528	4294311.232	10040	21-Dec-13	ALEX122113.SSF	575472.9429	42359
721972.079	4294310.492	11000	21-Dec-13	ALEX122113.SSF	575473.8271	42360
721971.631	4294309.759	10550	21-Dec-13	ALEX122113.SSF	575474.959	42361
721971.293	4294309.303	10317	21-Dec-13	ALEX122113.SSF	575475.854	42362
721970.896	4294308.599	10289	21-Dec-13	ALEX122113.SSF	575476.916	42363
721970.409	4294307.924	10012	21-Dec-13	ALEX122113.SSF	575477.8618	42364
721969.744	4294307.26	9673	21-Dec-13	ALEX122113.SSF	575478.916	42365
721969.288	4294306.716	10608	21-Dec-13	ALEX122113.SSF	575479.8188	42366
721968.764	4294305.951	10512	21-Dec-13	ALEX122113.SSF	575480.9302	42367
721968.359	4294305.336	9258	21-Dec-13	ALEX122113.SSF	575481.915	42368
721968.024	4294304.712	9904	21-Dec-13	ALEX122113.SSF	575482.9141	42369
721967.703	4294304.121	10096	21-Dec-13	ALEX122113.SSF	575483.832	42370
721967.2	4294303.235	10324	21-Dec-13	ALEX122113.SSF	575484.9771	42371
721966.818	4294302.667	9481	21-Dec-13	ALEX122113.SSF	575485.8682	42372
721966.443	4294302.233	10620	21-Dec-13	ALEX122113.SSF	575486.8379	42373
721966.013	4294301.626	10035	21-Dec-13	ALEX122113.SSF	575487.8682	42374
721965.494	4294300.927	9708	21-Dec-13	ALEX122113.SSF	575488.833	42375
721964.999	4294300.194	8607	21-Dec-13	ALEX122113.SSF	575489.8052	42376
721964.591	4294299.509	9172	21-Dec-13	ALEX122113.SSF	575490.895	42377
721964.373	4294299.105	9643	21-Dec-13	ALEX122113.SSF	575491.812	42378
721964.03	4294298.582	9490	21-Dec-13	ALEX122113.SSF	575492.8872	42379
721963.746	4294298.07	8522	21-Dec-13	ALEX122113.SSF	575493.7729	42380

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721963.319	4294297.272	9450	21-Dec-13	ALEX122113.SSF	575494.8979	42381
721962.845	4294296.487	9472	21-Dec-13	ALEX122113.SSF	575495.8882	42382
721962.358	4294295.773	9628	21-Dec-13	ALEX122113.SSF	575496.9312	42383
721962.075	4294295.329	9187	21-Dec-13	ALEX122113.SSF	575497.877	42384
721961.65	4294294.664	10366	21-Dec-13	ALEX122113.SSF	575498.9399	42385
721961.193	4294293.823	8771	21-Dec-13	ALEX122113.SSF	575499.8701	42386
721960.726	4294293.034	8313	21-Dec-13	ALEX122113.SSF	575500.9448	42387
721960.33	4294292.56	9218	21-Dec-13	ALEX122113.SSF	575501.8481	42388
721959.819	4294291.82	8604	21-Dec-13	ALEX122113.SSF	575502.9531	42389
721959.468	4294291.313	7461	21-Dec-13	ALEX122113.SSF	575503.833	42390
721959.117	4294290.846	8405	21-Dec-13	ALEX122113.SSF	575504.8882	42391
721958.935	4294290.42	7291	21-Dec-13	ALEX122113.SSF	575505.7998	42392
721958.661	4294289.55	6382	21-Dec-13	ALEX122113.SSF	575507.0488	42393
721958.41	4294289.054	7625	21-Dec-13	ALEX122113.SSF	575507.7979	42394
721958.179	4294288.669	8176	21-Dec-13	ALEX122113.SSF	575508.8711	42395
721958	4294288.402	6454	21-Dec-13	ALEX122113.SSF	575509.769	42396
721957.642	4294287.827	7463	21-Dec-13	ALEX122113.SSF	575510.9092	42397
721957.165	4294287.177	5766	21-Dec-13	ALEX122113.SSF	575511.7959	42398
721956.565	4294286.288	6078	21-Dec-13	ALEX122113.SSF	575512.9248	42399
721956.156	4294285.749	6359	21-Dec-13	ALEX122113.SSF	575513.9072	42400
721955.678	4294285.255	5174	21-Dec-13	ALEX122113.SSF	575514.876	42401
721955.204	4294284.588	5213	21-Dec-13	ALEX122113.SSF	575515.855	42402
721954.791	4294283.811	5385	21-Dec-13	ALEX122113.SSF	575516.8701	42403
721954.27	4294283.137	5429	21-Dec-13	ALEX122113.SSF	575517.769	42404
721953.745	4294282.368	5843	21-Dec-13	ALEX122113.SSF	575518.8652	42405
721953.513	4294281.848	6024	21-Dec-13	ALEX122113.SSF	575519.7559	42406
721953.27	4294281.328	6159	21-Dec-13	ALEX122113.SSF	575520.8789	42407
721953.094	4294280.85	7119	21-Dec-13	ALEX122113.SSF	575521.8779	42408
721952.828	4294280.281	7420	21-Dec-13	ALEX122113.SSF	575522.8921	42409
721952.533	4294279.762	7075	21-Dec-13	ALEX122113.SSF	575523.856	42410
721952.297	4294279.438	6538	21-Dec-13	ALEX122113.SSF	575524.9438	42411
721952.066	4294279.342	6164	21-Dec-13	ALEX122113.SSF	575525.7832	42412
721951.771	4294279.201	6841	21-Dec-13	ALEX122113.SSF	575527.02	42413
721951.717	4294279.139	7020	21-Dec-13	ALEX122113.SSF	575527.7388	42414
721951.695	4294279.07	6945	21-Dec-13	ALEX122113.SSF	575528.894	42415
721951.721	4294279.132	6716	21-Dec-13	ALEX122113.SSF	575529.73	42416
721951.613	4294279.073	7259	21-Dec-13	ALEX122113.SSF	575530.9541	42417
721951.615	4294279.01	7335	21-Dec-13	ALEX122113.SSF	575531.8242	42418
721951.465	4294278.95	7233	21-Dec-13	ALEX122113.SSF	575532.9561	42419
721951.32	4294278.998	8498	21-Dec-13	ALEX122113.SSF	575533.897	42420
721950.996	4294279.002	7374	21-Dec-13	ALEX122113.SSF	575535.001	42421
721950.852	4294279.06	6973	21-Dec-13	ALEX122113.SSF	575535.769	42422
721950.836	4294279.166	6813	21-Dec-13	ALEX122113.SSF	575536.9058	42423
721950.84	4294279.202	7523	21-Dec-13	ALEX122113.SSF	575537.752	42424
721950.977	4294279.26	6590	21-Dec-13	ALEX122113.SSF	575538.8408	42425
721951.141	4294279.623	6807	21-Dec-13	ALEX122113.SSF	575539.8418	42426
721951.116	4294279.84	7582	21-Dec-13	ALEX122113.SSF	575540.8799	42427

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721951.01	4294279.937	6965	21-Dec-13	ALEX122113.SSF	575541.7549	42428
721951.004	4294280.07	8341	21-Dec-13	ALEX122113.SSF	575542.876	42429
721951.028	4294280.071	6795	21-Dec-13	ALEX122113.SSF	575543.835	42430
721951.013	4294280.137	7728	21-Dec-13	ALEX122113.SSF	575544.9312	42431
721951.061	4294280.254	7212	21-Dec-13	ALEX122113.SSF	575545.8252	42432
721951.32	4294280.601	7473	21-Dec-13	ALEX122113.SSF	575546.998	42433
721951.586	4294280.794	6908	21-Dec-13	ALEX122113.SSF	575547.8721	42434
721951.735	4294280.98	7187	21-Dec-13	ALEX122113.SSF	575548.936	42435
721951.935	4294281.319	5920	21-Dec-13	ALEX122113.SSF	575549.8271	42436
721952.294	4294281.822	6510	21-Dec-13	ALEX122113.SSF	575550.9141	42437
721952.412	4294282.244	6341	21-Dec-13	ALEX122113.SSF	575551.7959	42438
721952.628	4294283.029	6835	21-Dec-13	ALEX122113.SSF	575552.9502	42439
721952.963	4294283.528	5953	21-Dec-13	ALEX122113.SSF	575553.7998	42440
721953.332	4294284.186	6432	21-Dec-13	ALEX122113.SSF	575554.938	42441
721953.651	4294284.768	6498	21-Dec-13	ALEX122113.SSF	575555.7969	42442
721954.167	4294285.597	5914	21-Dec-13	ALEX122113.SSF	575556.9282	42443
721954.466	4294286.167	5816	21-Dec-13	ALEX122113.SSF	575557.8472	42444
721954.875	4294286.823	6009	21-Dec-13	ALEX122113.SSF	575558.917	42445
721955.255	4294287.454	5930	21-Dec-13	ALEX122113.SSF	575559.8379	42446
721955.632	4294288.169	6228	21-Dec-13	ALEX122113.SSF	575560.9209	42447
721955.91	4294288.633	5877	21-Dec-13	ALEX122113.SSF	575561.8018	42448
721956.196	4294289.12	6088	21-Dec-13	ALEX122113.SSF	575562.894	42449
721956.567	4294289.694	6322	21-Dec-13	ALEX122113.SSF	575563.813	42450
721956.995	4294290.426	7430	21-Dec-13	ALEX122113.SSF	575564.832	42451
721957.294	4294290.949	6927	21-Dec-13	ALEX122113.SSF	575565.7622	42452
721957.629	4294291.228	7852	21-Dec-13	ALEX122113.SSF	575566.96	42453
721957.837	4294291.399	6913	21-Dec-13	ALEX122113.SSF	575567.8428	42454
721958.044	4294291.748	7578	21-Dec-13	ALEX122113.SSF	575569.0161	42455
721958.242	4294292.089	7354	21-Dec-13	ALEX122113.SSF	575569.8262	42456
721958.704	4294292.837	7958	21-Dec-13	ALEX122113.SSF	575570.8491	42457
721959.288	4294293.472	7839	21-Dec-13	ALEX122113.SSF	575571.8359	42458
721959.814	4294294.081	7780	21-Dec-13	ALEX122113.SSF	575572.8569	42459
721960.255	4294294.725	7495	21-Dec-13	ALEX122113.SSF	575573.7622	42460
721960.786	4294295.581	7303	21-Dec-13	ALEX122113.SSF	575574.9502	42461
721961.053	4294296.012	7796	21-Dec-13	ALEX122113.SSF	575575.8472	42462
721961.36	4294296.478	8549	21-Dec-13	ALEX122113.SSF	575576.874	42463
721961.624	4294297.089	7747	21-Dec-13	ALEX122113.SSF	575577.792	42464
721962.147	4294297.84	8116	21-Dec-13	ALEX122113.SSF	575578.8452	42465
721962.801	4294298.539	8419	21-Dec-13	ALEX122113.SSF	575579.8472	42466
721963.276	4294299.161	8554	21-Dec-13	ALEX122113.SSF	575580.9209	42467
721963.546	4294299.587	8708	21-Dec-13	ALEX122113.SSF	575581.8008	42468
721963.925	4294300.232	9107	21-Dec-13	ALEX122113.SSF	575582.8242	42469
721964.49	4294301.061	8576	21-Dec-13	ALEX122113.SSF	575583.855	42470
721965.039	4294301.799	8414	21-Dec-13	ALEX122113.SSF	575584.9058	42471
721965.287	4294302.178	9903	21-Dec-13	ALEX122113.SSF	575585.7842	42472
721965.582	4294302.645	10095	21-Dec-13	ALEX122113.SSF	575586.939	42473
721965.778	4294303.03	9243	21-Dec-13	ALEX122113.SSF	575587.8218	42474

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721966.079	4294303.534	9541	21-Dec-13	ALEX122113.SSF	575588.8589	42475
721966.477	4294304.114	8775	21-Dec-13	ALEX122113.SSF	575589.8828	42476
721966.974	4294304.874	9753	21-Dec-13	ALEX122113.SSF	575590.8589	42477
721967.467	4294305.668	9548	21-Dec-13	ALEX122113.SSF	575591.7861	42478
721967.959	4294306.359	9977	21-Dec-13	ALEX122113.SSF	575592.9019	42479
721968.261	4294306.697	9754	21-Dec-13	ALEX122113.SSF	575593.8149	42480
721968.491	4294307.182	9758	21-Dec-13	ALEX122113.SSF	575594.8931	42481
721968.719	4294307.702	9549	21-Dec-13	ALEX122113.SSF	575595.8521	42482
721969.155	4294308.448	9677	21-Dec-13	ALEX122113.SSF	575596.874	42483
721969.667	4294309.09	8719	21-Dec-13	ALEX122113.SSF	575597.8198	42484
721970.291	4294309.971	9829	21-Dec-13	ALEX122113.SSF	575598.9458	42485
721970.743	4294310.676	10407	21-Dec-13	ALEX122113.SSF	575599.8638	42486
721971.119	4294311.183	9982	21-Dec-13	ALEX122113.SSF	575600.895	42487
721971.329	4294311.681	9245	21-Dec-13	ALEX122113.SSF	575601.812	42488
721971.624	4294312.198	9571	21-Dec-13	ALEX122113.SSF	575602.8242	42489
721972.101	4294312.827	9472	21-Dec-13	ALEX122113.SSF	575603.8481	42490
721972.752	4294313.519	9628	21-Dec-13	ALEX122113.SSF	575604.833	42491
721973.337	4294314.128	9187	21-Dec-13	ALEX122113.SSF	575605.7852	42492
721973.691	4294314.637	9706	21-Dec-13	ALEX122113.SSF	575606.9038	42493
721973.881	4294315.005	9566	21-Dec-13	ALEX122113.SSF	575607.8159	42494
721974.102	4294315.576	10821	21-Dec-13	ALEX122113.SSF	575608.8242	42495
721974.493	4294316.312	10115	21-Dec-13	ALEX122113.SSF	575609.7529	42496
721975.115	4294317.23	9788	21-Dec-13	ALEX122113.SSF	575610.8691	42497
721975.47	4294317.746	10787	21-Dec-13	ALEX122113.SSF	575611.7222	42498
721975.711	4294318.107	10676	21-Dec-13	ALEX122113.SSF	575612.8569	42499
721975.72	4294318.113	10889	21-Dec-13	ALEX122113.SSF	575613.77	42500
721975.776	4294318.055	9682	21-Dec-13	ALEX122113.SSF	575614.7769	42501
721975.857	4294317.956	10040	21-Dec-13	ALEX122113.SSF	575615.7871	42502
721975.82	4294318.082	9560	21-Dec-13	ALEX122113.SSF	575616.9292	42503
721975.761	4294318.126	10250	21-Dec-13	ALEX122113.SSF	575617.8291	42504
721975.74	4294318.198	10062	21-Dec-13	ALEX122113.SSF	575618.9238	42505
721975.943	4294318.437	10435	21-Dec-13	ALEX122113.SSF	575619.8501	42506
721976.363	4294318.912	11009	21-Dec-13	ALEX122113.SSF	575620.9058	42507
721976.693	4294319.461	9832	21-Dec-13	ALEX122113.SSF	575621.8062	42508
721977.275	4294320.312	10138	21-Dec-13	ALEX122113.SSF	575622.9102	42509
721977.668	4294320.945	9854	21-Dec-13	ALEX122113.SSF	575623.8071	42510
721978.006	4294321.528	10413	21-Dec-13	ALEX122113.SSF	575624.916	42511
721978.266	4294321.956	9893	21-Dec-13	ALEX122113.SSF	575625.832	42512
721978.499	4294322.375	9943	21-Dec-13	ALEX122113.SSF	575626.835	42513
721978.843	4294322.781	10226	21-Dec-13	ALEX122113.SSF	575627.7578	42514
721979.415	4294323.361	8466	21-Dec-13	ALEX122113.SSF	575628.873	42515
721979.908	4294323.875	10096	21-Dec-13	ALEX122113.SSF	575629.7441	42516
721980.461	4294324.504	9184	21-Dec-13	ALEX122113.SSF	575630.9009	42517
721980.777	4294325.019	10276	21-Dec-13	ALEX122113.SSF	575631.73	42518
721981.319	4294325.818	9259	21-Dec-13	ALEX122113.SSF	575632.9038	42519
721981.827	4294326.452	8854	21-Dec-13	ALEX122113.SSF	575633.8091	42520
721982.183	4294326.832	9353	21-Dec-13	ALEX122113.SSF	575634.8149	42521

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721982.276	4294327.162	9778	21-Dec-13	ALEX122113.SSF	575635.7622	42522
721982.422	4294327.72	9074	21-Dec-13	ALEX122113.SSF	575636.8218	42523
721982.701	4294328.305	10177	21-Dec-13	ALEX122113.SSF	575637.6968	42524
721983.192	4294329.163	9432	21-Dec-13	ALEX122113.SSF	575638.8589	42525
721983.477	4294329.762	10248	21-Dec-13	ALEX122113.SSF	575639.731	42526
721983.898	4294330.472	10722	21-Dec-13	ALEX122113.SSF	575640.7769	42527
721984.447	4294331.211	8410	21-Dec-13	ALEX122113.SSF	575641.7822	42528
721985.009	4294331.816	9212	21-Dec-13	ALEX122113.SSF	575642.853	42529
721985.322	4294332.102	7703	21-Dec-13	ALEX122113.SSF	575643.7842	42530
721985.544	4294332.327	7955	21-Dec-13	ALEX122113.SSF	575644.8101	42531
721985.675	4294332.532	8199	21-Dec-13	ALEX122113.SSF	575645.7412	42532
721985.847	4294332.696	8679	21-Dec-13	ALEX122113.SSF	575646.8682	42533
721985.801	4294332.735	9280	21-Dec-13	ALEX122113.SSF	575647.7681	42534
721985.718	4294332.735	9010	21-Dec-13	ALEX122113.SSF	575648.7749	42535
721985.677	4294332.662	8972	21-Dec-13	ALEX122113.SSF	575649.7192	42536
721985.68	4294332.576	9953	21-Dec-13	ALEX122113.SSF	575650.7871	42537
721985.702	4294332.502	8428	21-Dec-13	ALEX122113.SSF	575651.7139	42538
721985.708	4294332.478	9187	21-Dec-13	ALEX122113.SSF	575652.8408	42539
721985.688	4294332.468	8656	21-Dec-13	ALEX122113.SSF	575653.729	42540
721985.67	4294332.433	9724	21-Dec-13	ALEX122113.SSF	575654.875	42541
721985.663	4294332.384	8551	21-Dec-13	ALEX122113.SSF	575655.8481	42542
721985.657	4294332.329	8287	21-Dec-13	ALEX122113.SSF	575656.8599	42543
721985.635	4294332.265	8462	21-Dec-13	ALEX122113.SSF	575657.8428	42544
721985.632	4294332.243	8835	21-Dec-13	ALEX122113.SSF	575658.8408	42545
721985.649	4294332.171	9648	21-Dec-13	ALEX122113.SSF	575659.7559	42546
721985.672	4294332.076	8562	21-Dec-13	ALEX122113.SSF	575660.8462	42547
721985.702	4294332.146	8650	21-Dec-13	ALEX122113.SSF	575661.7549	42548
721985.768	4294332.283	8762	21-Dec-13	ALEX122113.SSF	575662.8911	42549
721985.812	4294332.345	8970	21-Dec-13	ALEX122113.SSF	575663.7251	42550
721985.88	4294332.47	8422	21-Dec-13	ALEX122113.SSF	575664.8462	42551
721985.913	4294332.567	8765	21-Dec-13	ALEX122113.SSF	575665.7358	42552
721985.899	4294332.544	8941	21-Dec-13	ALEX122113.SSF	575666.875	42553
721985.884	4294332.505	8865	21-Dec-13	ALEX122113.SSF	575667.7651	42554
721985.873	4294332.45	8696	21-Dec-13	ALEX122113.SSF	575668.7822	42555
721985.851	4294332.394	8684	21-Dec-13	ALEX122113.SSF	575669.7051	42556
721985.819	4294332.374	8921	21-Dec-13	ALEX122113.SSF	575670.896	42557
721985.777	4294332.367	8200	21-Dec-13	ALEX122113.SSF	575671.8149	42558
721985.726	4294332.315	8920	21-Dec-13	ALEX122113.SSF	575672.8018	42559
721985.713	4294332.281	8590	21-Dec-13	ALEX122113.SSF	575673.7349	42560
721985.718	4294332.291	8087	21-Dec-13	ALEX122113.SSF	575674.8389	42561
721985.752	4294332.271	7301	21-Dec-13	ALEX122113.SSF	575675.7412	42562
721985.791	4294332.267	7195	21-Dec-13	ALEX122113.SSF	575676.8799	42563
721985.733	4294332.443	7499	21-Dec-13	ALEX122113.SSF	575677.7178	42564
721985.495	4294332.78	8114	21-Dec-13	ALEX122113.SSF	575678.8799	42565
721985.074	4294332.91	8238	21-Dec-13	ALEX122113.SSF	575679.7891	42566
721984.91	4294332.793	9259	21-Dec-13	ALEX122113.SSF	575680.834	42567
721984.989	4294332.658	8404	21-Dec-13	ALEX122113.SSF	575681.79	42568

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721985.01	4294332.667	9121	21-Dec-13	ALEX122113.SSF	575682.811	42569
721985.006	4294332.732	7770	21-Dec-13	ALEX122113.SSF	575683.7612	42570
721985.013	4294332.799	8812	21-Dec-13	ALEX122113.SSF	575684.7788	42571
721984.997	4294332.873	8413	21-Dec-13	ALEX122113.SSF	575685.7388	42572
721984.975	4294332.931	8103	21-Dec-13	ALEX122113.SSF	575686.8921	42573
721985.017	4294332.905	8505	21-Dec-13	ALEX122113.SSF	575687.7749	42574
721985.045	4294332.834	8906	21-Dec-13	ALEX122113.SSF	575688.8911	42575
721985.032	4294332.814	8136	21-Dec-13	ALEX122113.SSF	575689.751	42576
721985.026	4294332.817	8094	21-Dec-13	ALEX122113.SSF	575690.7549	42577
721985.025	4294332.81	7813	21-Dec-13	ALEX122113.SSF	575691.689	42578
721985.074	4294332.788	8643	21-Dec-13	ALEX122113.SSF	575692.8179	42579
721985.121	4294332.754	8040	21-Dec-13	ALEX122113.SSF	575693.7041	42580
721985.089	4294332.719	9450	21-Dec-13	ALEX122113.SSF	575694.7251	42581
721985.009	4294332.691	8572	21-Dec-13	ALEX122113.SSF	575695.7959	42582
721984.966	4294332.67	9523	21-Dec-13	ALEX122113.SSF	575696.875	42583
721984.96	4294332.665	9071	21-Dec-13	ALEX122113.SSF	575697.7871	42584
721984.976	4294332.65	8867	21-Dec-13	ALEX122113.SSF	575698.8071	42585
721984.98	4294332.628	9686	21-Dec-13	ALEX122113.SSF	575699.7261	42586
721984.982	4294332.595	9351	21-Dec-13	ALEX122113.SSF	575700.873	42587
721985	4294332.594	9628	21-Dec-13	ALEX122113.SSF	575701.7271	42588
721985.033	4294332.598	9787	21-Dec-13	ALEX122113.SSF	575702.874	42589
721985.061	4294332.626	8776	21-Dec-13	ALEX122113.SSF	575703.7129	42590
721984.985	4294332.643	8794	21-Dec-13	ALEX122113.SSF	575704.876	42591
721984.909	4294332.624	9188	21-Dec-13	ALEX122113.SSF	575705.7822	42592
721984.896	4294332.578	8777	21-Dec-13	ALEX122113.SSF	575706.8198	42593
721984.91	4294332.567	9664	21-Dec-13	ALEX122113.SSF	575707.7852	42594
721984.908	4294332.573	9016	21-Dec-13	ALEX122113.SSF	575708.9312	42595
721984.916	4294332.58	8734	21-Dec-13	ALEX122113.SSF	575709.7739	42596
721984.898	4294332.586	7643	21-Dec-13	ALEX122113.SSF	575710.8618	42597
721984.86	4294332.585	9411	21-Dec-13	ALEX122113.SSF	575711.7559	42598
721984.777	4294332.591	9102	21-Dec-13	ALEX122113.SSF	575712.8979	42599
721984.706	4294332.637	8935	21-Dec-13	ALEX122113.SSF	575713.73	42600
721984.69	4294332.654	8864	21-Dec-13	ALEX122113.SSF	575714.8521	42601
721984.67	4294332.606	9506	21-Dec-13	ALEX122113.SSF	575715.7461	42602
721984.628	4294332.565	10056	21-Dec-13	ALEX122113.SSF	575716.8149	42603
721984.724	4294332.521	9234	21-Dec-13	ALEX122113.SSF	575717.7368	42604
721984.835	4294332.475	8878	21-Dec-13	ALEX122113.SSF	575718.814	42605
721984.814	4294332.56	8309	21-Dec-13	ALEX122113.SSF	575719.6768	42606
721984.738	4294332.652	9637	21-Dec-13	ALEX122113.SSF	575720.8301	42607
721984.754	4294332.678	8469	21-Dec-13	ALEX122113.SSF	575721.793	42608
721984.785	4294332.683	8717	21-Dec-13	ALEX122113.SSF	575722.835	42609
721984.786	4294332.693	8899	21-Dec-13	ALEX122113.SSF	575723.752	42610
721984.792	4294332.705	8194	21-Dec-13	ALEX122113.SSF	575724.8828	42611
721984.837	4294332.699	9278	21-Dec-13	ALEX122113.SSF	575725.666	42612
721984.85	4294332.681	8619	21-Dec-13	ALEX122113.SSF	575726.8262	42613
721984.766	4294332.699	8695	21-Dec-13	ALEX122113.SSF	575727.7412	42614
721984.601	4294332.544	8353	21-Dec-13	ALEX122113.SSF	575728.8281	42615

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721984.551	4294332.427	8838	21-Dec-13	ALEX122113.SSF	575729.665	42616
721984.596	4294332.385	8809	21-Dec-13	ALEX122113.SSF	575730.8071	42617
721984.64	4294332.395	8112	21-Dec-13	ALEX122113.SSF	575731.6968	42618
721984.651	4294332.399	8988	21-Dec-13	ALEX122113.SSF	575732.7842	42619
721984.685	4294332.412	8727	21-Dec-13	ALEX122113.SSF	575733.6851	42620
721984.601	4294332.312	8751	21-Dec-13	ALEX122113.SSF	575734.7969	42621
721984.317	4294331.921	9058	21-Dec-13	ALEX122113.SSF	575735.7388	42622
721983.828	4294331.212	9374	21-Dec-13	ALEX122113.SSF	575736.8398	42623
721983.432	4294330.629	9453	21-Dec-13	ALEX122113.SSF	575737.7349	42624
721983.037	4294330.078	8903	21-Dec-13	ALEX122113.SSF	575738.8452	42625
721982.598	4294329.676	8075	21-Dec-13	ALEX122113.SSF	575739.7642	42626
721982.077	4294329.051	8499	21-Dec-13	ALEX122113.SSF	575740.7959	42627
721981.688	4294328.421	9114	21-Dec-13	ALEX122113.SSF	575741.7241	42628
721981.336	4294327.885	9478	21-Dec-13	ALEX122113.SSF	575742.751	42629
721980.948	4294327.342	8429	21-Dec-13	ALEX122113.SSF	575743.7109	42630
721980.433	4294326.608	9997	21-Dec-13	ALEX122113.SSF	575744.751	42631
721979.924	4294325.891	9159	21-Dec-13	ALEX122113.SSF	575745.8081	42632
721979.496	4294325.273	9399	21-Dec-13	ALEX122113.SSF	575746.8271	42633
721979.082	4294324.676	9430	21-Dec-13	ALEX122113.SSF	575747.7681	42634
721978.656	4294323.915	9197	21-Dec-13	ALEX122113.SSF	575748.8442	42635
721978.341	4294323.407	9619	21-Dec-13	ALEX122113.SSF	575749.7788	42636
721977.902	4294322.959	9334	21-Dec-13	ALEX122113.SSF	575750.8481	42637
721977.469	4294322.447	8993	21-Dec-13	ALEX122113.SSF	575751.7471	42638
721976.97	4294321.694	10558	21-Dec-13	ALEX122113.SSF	575752.855	42639
721976.63	4294321.208	8939	21-Dec-13	ALEX122113.SSF	575753.748	42640
721976.287	4294320.589	8985	21-Dec-13	ALEX122113.SSF	575754.8521	42641
721975.939	4294320.031	9266	21-Dec-13	ALEX122113.SSF	575755.77	42642
721975.497	4294319.498	9816	21-Dec-13	ALEX122113.SSF	575756.8081	42643
721975.108	4294318.972	9924	21-Dec-13	ALEX122113.SSF	575757.731	42644
721974.658	4294318.261	9681	21-Dec-13	ALEX122113.SSF	575758.7632	42645
721974.282	4294317.685	10040	21-Dec-13	ALEX122113.SSF	575759.6938	42646
721973.875	4294317.019	10730	21-Dec-13	ALEX122113.SSF	575760.8979	42647
721973.461	4294316.327	10812	21-Dec-13	ALEX122113.SSF	575761.8311	42648
721972.9	4294315.46	10413	21-Dec-13	ALEX122113.SSF	575762.9009	42649
721972.492	4294314.917	10133	21-Dec-13	ALEX122113.SSF	575763.8008	42650
721972.143	4294314.503	9223	21-Dec-13	ALEX122113.SSF	575764.8418	42651
721971.835	4294314.088	9446	21-Dec-13	ALEX122113.SSF	575765.7769	42652
721971.327	4294313.414	9051	21-Dec-13	ALEX122113.SSF	575766.8799	42653
721970.875	4294312.711	9702	21-Dec-13	ALEX122113.SSF	575767.8169	42654
721970.419	4294311.969	8395	21-Dec-13	ALEX122113.SSF	575768.8999	42655
721969.903	4294311.364	10499	21-Dec-13	ALEX122113.SSF	575769.8198	42656
721969.299	4294310.613	8894	21-Dec-13	ALEX122113.SSF	575770.8408	42657
721968.903	4294310.031	10353	21-Dec-13	ALEX122113.SSF	575771.7661	42658
721968.537	4294309.568	8828	21-Dec-13	ALEX122113.SSF	575772.7671	42659
721968.118	4294309.019	9947	21-Dec-13	ALEX122113.SSF	575773.7671	42660
721967.7	4294308.267	9416	21-Dec-13	ALEX122113.SSF	575774.77	42661
721967.288	4294307.488	9074	21-Dec-13	ALEX122113.SSF	575775.772	42662

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721966.857	4294306.864	10038	21-Dec-13	ALEX122113.SSF	575776.7861	42663
721966.576	4294306.437	10369	21-Dec-13	ALEX122113.SSF	575777.6948	42664
721966.231	4294305.755	8922	21-Dec-13	ALEX122113.SSF	575778.8091	42665
721965.756	4294305.01	10330	21-Dec-13	ALEX122113.SSF	575779.7588	42666
721965.198	4294304.329	10412	21-Dec-13	ALEX122113.SSF	575780.835	42667
721964.867	4294303.897	10433	21-Dec-13	ALEX122113.SSF	575781.7769	42668
721964.595	4294303.283	10648	21-Dec-13	ALEX122113.SSF	575782.8218	42669
721964.281	4294302.5	9142	21-Dec-13	ALEX122113.SSF	575783.7622	42670
721963.736	4294301.696	8525	21-Dec-13	ALEX122113.SSF	575784.8721	42671
721963.407	4294301.3	8491	21-Dec-13	ALEX122113.SSF	575785.6538	42672
721963.039	4294300.811	9622	21-Dec-13	ALEX122113.SSF	575786.7759	42673
721962.776	4294300.424	7985	21-Dec-13	ALEX122113.SSF	575787.6812	42674
721962.367	4294299.899	7966	21-Dec-13	ALEX122113.SSF	575788.7939	42675
721961.906	4294299.334	8771	21-Dec-13	ALEX122113.SSF	575789.7021	42676
721961.245	4294298.372	7773	21-Dec-13	ALEX122113.SSF	575790.8442	42677
721960.807	4294297.68	8093	21-Dec-13	ALEX122113.SSF	575791.7402	42678
721960.248	4294297.063	8113	21-Dec-13	ALEX122113.SSF	575792.8491	42679
721959.747	4294296.488	7608	21-Dec-13	ALEX122113.SSF	575793.7432	42680
721959.189	4294295.726	8682	21-Dec-13	ALEX122113.SSF	575794.7949	42681
721958.835	4294295.171	8020	21-Dec-13	ALEX122113.SSF	575795.6938	42682
721958.599	4294294.627	8395	21-Dec-13	ALEX122113.SSF	575796.7871	42683
721958.348	4294294.053	8068	21-Dec-13	ALEX122113.SSF	575797.7388	42684
721957.875	4294293.216	8197	21-Dec-13	ALEX122113.SSF	575798.9048	42685
721957.564	4294292.724	7599	21-Dec-13	ALEX122113.SSF	575799.7388	42686
721957.135	4294292.171	7839	21-Dec-13	ALEX122113.SSF	575800.752	42687
721956.762	4294291.697	7960	21-Dec-13	ALEX122113.SSF	575801.7549	42688
721956.549	4294291.306	8020	21-Dec-13	ALEX122113.SSF	575802.833	42689
721956.35	4294290.945	7915	21-Dec-13	ALEX122113.SSF	575803.731	42690
721955.945	4294290.32	6898	21-Dec-13	ALEX122113.SSF	575804.7671	42691
721955.456	4294289.712	6164	21-Dec-13	ALEX122113.SSF	575805.7412	42692
721954.942	4294289.141	6131	21-Dec-13	ALEX122113.SSF	575806.8462	42693
721954.535	4294288.538	6002	21-Dec-13	ALEX122113.SSF	575807.7529	42694
721953.907	4294287.764	6031	21-Dec-13	ALEX122113.SSF	575808.8628	42695
721953.451	4294287.175	5897	21-Dec-13	ALEX122113.SSF	575809.8008	42696
721953.108	4294286.547	5604	21-Dec-13	ALEX122113.SSF	575810.751	42697
721952.717	4294285.888	5971	21-Dec-13	ALEX122113.SSF	575811.6938	42698
721952.242	4294285.321	5796	21-Dec-13	ALEX122113.SSF	575812.749	42699
721951.974	4294284.868	5637	21-Dec-13	ALEX122113.SSF	575813.6699	42700
721951.619	4294284.22	5775	21-Dec-13	ALEX122113.SSF	575814.7251	42701
721951.118	4294283.613	5933	21-Dec-13	ALEX122113.SSF	575815.7749	42702
721950.649	4294282.99	6007	21-Dec-13	ALEX122113.SSF	575816.7969	42703
721950.32	4294282.464	5876	21-Dec-13	ALEX122113.SSF	575817.73	42704
721949.973	4294282.051	6260	21-Dec-13	ALEX122113.SSF	575818.8511	42705
721949.828	4294282.079	7265	21-Dec-13	ALEX122113.SSF	575819.7808	42706
721949.767	4294282.158	6256	21-Dec-13	ALEX122113.SSF	575820.7471	42707
721949.816	4294282.113	6574	21-Dec-13	ALEX122113.SSF	575821.644	42708
721949.841	4294281.885	6293	21-Dec-13	ALEX122113.SSF	575822.751	42709

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721949.867	4294281.731	6140	21-Dec-13	ALEX122113.SSF	575823.645	42710
721949.857	4294281.611	6365	21-Dec-13	ALEX122113.SSF	575824.749	42711
721949.696	4294281.606	6541	21-Dec-13	ALEX122113.SSF	575825.7349	42712
721949.356	4294281.686	6885	21-Dec-13	ALEX122113.SSF	575826.8569	42713
721949.118	4294281.781	6131	21-Dec-13	ALEX122113.SSF	575827.709	42714
721948.791	4294281.888	6483	21-Dec-13	ALEX122113.SSF	575828.8169	42715
721948.614	4294282.025	6990	21-Dec-13	ALEX122113.SSF	575829.7402	42716
721948.34	4294282.003	6397	21-Dec-13	ALEX122113.SSF	575830.835	42717
721948.231	4294281.985	6119	21-Dec-13	ALEX122113.SSF	575831.709	42718
721948.169	4294281.988	6329	21-Dec-13	ALEX122113.SSF	575832.812	42719
721948.166	4294282.022	6303	21-Dec-13	ALEX122113.SSF	575833.7119	42720
721948.156	4294282.052	5925	21-Dec-13	ALEX122113.SSF	575834.812	42721
721948.124	4294282.104	6123	21-Dec-13	ALEX122113.SSF	575835.7241	42722
721947.948	4294282.173	6241	21-Dec-13	ALEX122113.SSF	575836.8242	42723
721947.818	4294282.23	5805	21-Dec-13	ALEX122113.SSF	575837.7261	42724
721947.787	4294282.38	5853	21-Dec-13	ALEX122113.SSF	575838.7749	42725
721947.754	4294282.441	6007	21-Dec-13	ALEX122113.SSF	575839.7212	42726
721947.553	4294282.412	5462	21-Dec-13	ALEX122113.SSF	575840.855	42727
721947.451	4294282.274	6518	21-Dec-13	ALEX122113.SSF	575841.7949	42728
721947.329	4294282.033	6879	21-Dec-13	ALEX122113.SSF	575842.8081	42729
721947.071	4294281.846	6790	21-Dec-13	ALEX122113.SSF	575843.7979	42730
721946.807	4294281.827	6017	21-Dec-13	ALEX122113.SSF	575844.7969	42731
721946.597	4294281.424	6006	21-Dec-13	ALEX122113.SSF	575845.749	42732
721946.788	4294280.575	6296	21-Dec-13	ALEX122113.SSF	575846.75	42733
721947.143	4294279.893	6494	21-Dec-13	ALEX122113.SSF	575847.75	42734
721947.346	4294279.491	6273	21-Dec-13	ALEX122113.SSF	575848.7642	42735
721947.281	4294279.385	6908	21-Dec-13	ALEX122113.SSF	575849.6631	42736
721947.236	4294279.599	6887	21-Dec-13	ALEX122113.SSF	575850.751	42737
721947.162	4294279.979	6911	21-Dec-13	ALEX122113.SSF	575851.6631	42738
721946.904	4294280.265	7068	21-Dec-13	ALEX122113.SSF	575852.728	42739
721947.008	4294280.264	6807	21-Dec-13	ALEX122113.SSF	575853.6699	42740
721947.356	4294280.256	6591	21-Dec-13	ALEX122113.SSF	575854.7778	42741
721947.492	4294280.333	6238	21-Dec-13	ALEX122113.SSF	575855.728	42742
721947.464	4294280.432	6524	21-Dec-13	ALEX122113.SSF	575856.7998	42743
721947.408	4294280.387	6581	21-Dec-13	ALEX122113.SSF	575857.7139	42744
721947.22	4294280.453	6895	21-Dec-13	ALEX122113.SSF	575858.8242	42745
721946.883	4294280.645	6373	21-Dec-13	ALEX122113.SSF	575859.7422	42746
721946.577	4294281.106	6303	21-Dec-13	ALEX122113.SSF	575860.8062	42747
721946.898	4294281.477	5723	21-Dec-13	ALEX122113.SSF	575861.7378	42748
721947.698	4294281.803	5791	21-Dec-13	ALEX122113.SSF	575862.8242	42749
721948.405	4294282.021	5636	21-Dec-13	ALEX122113.SSF	575863.6338	42750
721949.197	4294282.138	6073	21-Dec-13	ALEX122113.SSF	575864.8071	42751
721949.399	4294282.497	5928	21-Dec-13	ALEX122113.SSF	575865.7402	42752
721949.568	4294282.973	6423	21-Dec-13	ALEX122113.SSF	575866.7861	42753
721949.848	4294283.411	6195	21-Dec-13	ALEX122113.SSF	575867.7061	42754
721950.209	4294284.058	6018	21-Dec-13	ALEX122113.SSF	575868.8149	42755
721950.645	4294284.668	6037	21-Dec-13	ALEX122113.SSF	575869.707	42756

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721951.234	4294285.59	6058	21-Dec-13	ALEX122113.SSF	575870.8311	42757
721951.515	4294286.217	5920	21-Dec-13	ALEX122113.SSF	575871.7461	42758
721951.818	4294286.858	6045	21-Dec-13	ALEX122113.SSF	575872.8071	42759
721952.146	4294287.599	6197	21-Dec-13	ALEX122113.SSF	575873.7578	42760
721952.513	4294288.281	6289	21-Dec-13	ALEX122113.SSF	575874.7969	42761
721952.786	4294288.742	6093	21-Dec-13	ALEX122113.SSF	575875.6699	42762
721953.014	4294289.279	5630	21-Dec-13	ALEX122113.SSF	575876.6958	42763
721953.101	4294289.625	6159	21-Dec-13	ALEX122113.SSF	575877.6729	42764
721953.151	4294289.723	6189	21-Dec-13	ALEX122113.SSF	575878.7378	42765
721953.189	4294289.746	5876	21-Dec-13	ALEX122113.SSF	575879.6079	42766
721953.226	4294289.782	6388	21-Dec-13	ALEX122113.SSF	575880.8032	42767
721953.24	4294289.807	6637	21-Dec-13	ALEX122113.SSF	575881.7129	42768
721953.258	4294289.858	5834	21-Dec-13	ALEX122113.SSF	575882.9448	42769
721953.302	4294289.851	6027	21-Dec-13	ALEX122113.SSF	575883.7148	42770
721953.29	4294289.983	6068	21-Dec-13	ALEX122113.SSF	575884.7212	42771
721953.326	4294290.295	6407	21-Dec-13	ALEX122113.SSF	575885.707	42772
721953.587	4294290.691	6731	21-Dec-13	ALEX122113.SSF	575886.811	42773
721953.815	4294291.103	6423	21-Dec-13	ALEX122113.SSF	575887.709	42774
721954.095	4294291.755	6353	21-Dec-13	ALEX122113.SSF	575888.793	42775
721954.415	4294292.235	6868	21-Dec-13	ALEX122113.SSF	575889.71	42776
721954.717	4294292.657	6727	21-Dec-13	ALEX122113.SSF	575890.707	42777
721954.995	4294293.207	6661	21-Dec-13	ALEX122113.SSF	575891.688	42778
721955.321	4294293.733	7335	21-Dec-13	ALEX122113.SSF	575892.7031	42779
721955.711	4294294.14	9423	21-Dec-13	ALEX122113.SSF	575893.7012	42780
721956.196	4294294.743	9136	21-Dec-13	ALEX122113.SSF	575894.6982	42781
721956.787	4294295.496	10054	21-Dec-13	ALEX122113.SSF	575895.7212	42782
721957.293	4294296.164	9833	21-Dec-13	ALEX122113.SSF	575896.7158	42783
721957.559	4294296.634	9448	21-Dec-13	ALEX122113.SSF	575897.7329	42784
721957.835	4294297.076	10372	21-Dec-13	ALEX122113.SSF	575898.7622	42785
721958.194	4294297.547	9523	21-Dec-13	ALEX122113.SSF	575899.6968	42786
721958.687	4294298.116	8470	21-Dec-13	ALEX122113.SSF	575900.771	42787
721959.079	4294298.618	8747	21-Dec-13	ALEX122113.SSF	575901.7231	42788
721959.429	4294298.962	7706	21-Dec-13	ALEX122113.SSF	575902.771	42789
721959.726	4294299.198	6576	21-Dec-13	ALEX122113.SSF	575903.6768	42790
721960.072	4294299.732	6144	21-Dec-13	ALEX122113.SSF	575904.8091	42791
721960.459	4294300.364	7356	21-Dec-13	ALEX122113.SSF	575905.7061	42792
721960.937	4294301.117	8049	21-Dec-13	ALEX122113.SSF	575906.8179	42793
721961.168	4294301.515	8702	21-Dec-13	ALEX122113.SSF	575907.688	42794
721961.457	4294302.045	8685	21-Dec-13	ALEX122113.SSF	575908.7559	42795
721961.764	4294302.832	8141	21-Dec-13	ALEX122113.SSF	575909.7041	42796
721962.171	4294303.699	8005	21-Dec-13	ALEX122113.SSF	575910.7632	42797
721962.624	4294304.46	9111	21-Dec-13	ALEX122113.SSF	575911.749	42798
721963.127	4294305.204	8967	21-Dec-13	ALEX122113.SSF	575912.8071	42799
721963.492	4294305.702	10492	21-Dec-13	ALEX122113.SSF	575913.6909	42800
721963.824	4294306.293	9823	21-Dec-13	ALEX122113.SSF	575914.833	42801
721963.975	4294306.74	9085	21-Dec-13	ALEX122113.SSF	575915.6738	42802
721964.199	4294307.329	9051	21-Dec-13	ALEX122113.SSF	575916.7368	42803

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721964.484	4294307.869	8862	21-Dec-13	ALEX122113.SSF	575917.6802	42804
721964.929	4294308.459	9595	21-Dec-13	ALEX122113.SSF	575918.7402	42805
721965.416	4294309.015	11159	21-Dec-13	ALEX122113.SSF	575919.6958	42806
721965.918	4294309.604	9839	21-Dec-13	ALEX122113.SSF	575920.7422	42807
721966.328	4294310.214	10080	21-Dec-13	ALEX122113.SSF	575921.7349	42808
721966.672	4294310.657	10290	21-Dec-13	ALEX122113.SSF	575922.8018	42809
721966.917	4294311.035	10102	21-Dec-13	ALEX122113.SSF	575923.7441	42810
721967.072	4294311.367	10865	21-Dec-13	ALEX122113.SSF	575924.77	42811
721967.236	4294311.669	10486	21-Dec-13	ALEX122113.SSF	575925.666	42812
721967.503	4294312.009	9671	21-Dec-13	ALEX122113.SSF	575926.7549	42813
721967.736	4294312.386	10038	21-Dec-13	ALEX122113.SSF	575927.7241	42814
721967.916	4294312.796	8749	21-Dec-13	ALEX122113.SSF	575928.7012	42815
721968.149	4294313.151	9447	21-Dec-13	ALEX122113.SSF	575929.666	42816
721968.461	4294313.609	10012	21-Dec-13	ALEX122113.SSF	575930.7632	42817
721968.735	4294314.105	8923	21-Dec-13	ALEX122113.SSF	575931.6929	42818
721969.136	4294314.759	10840	21-Dec-13	ALEX122113.SSF	575932.8262	42819
721969.498	4294315.265	9850	21-Dec-13	ALEX122113.SSF	575933.7598	42820
721970.003	4294315.908	9272	21-Dec-13	ALEX122113.SSF	575934.7778	42821
721970.562	4294316.461	8438	21-Dec-13	ALEX122113.SSF	575935.6528	42822
721971.25	4294317.301	9429	21-Dec-13	ALEX122113.SSF	575936.7559	42823
721971.67	4294317.928	9017	21-Dec-13	ALEX122113.SSF	575937.6572	42824
721972.087	4294318.557	9424	21-Dec-13	ALEX122113.SSF	575938.7588	42825
721972.366	4294318.947	8972	21-Dec-13	ALEX122113.SSF	575939.6919	42826
721972.685	4294319.293	8951	21-Dec-13	ALEX122113.SSF	575940.7881	42827
721972.9	4294319.632	9858	21-Dec-13	ALEX122113.SSF	575941.6689	42828
721973.237	4294320.105	9364	21-Dec-13	ALEX122113.SSF	575942.7949	42829
721973.613	4294320.685	9871	21-Dec-13	ALEX122113.SSF	575943.7358	42830
721974.179	4294321.382	9517	21-Dec-13	ALEX122113.SSF	575944.7412	42831
721974.84	4294322.135	9279	21-Dec-13	ALEX122113.SSF	575945.687	42832
721975.534	4294322.892	9220	21-Dec-13	ALEX122113.SSF	575946.7832	42833
721975.897	4294323.36	9715	21-Dec-13	ALEX122113.SSF	575947.667	42834
721976.192	4294323.953	9448	21-Dec-13	ALEX122113.SSF	575948.7441	42835
721976.472	4294324.399	9532	21-Dec-13	ALEX122113.SSF	575949.7109	42836
721976.826	4294325.055	9673	21-Dec-13	ALEX122113.SSF	575950.7231	42837
721977.26	4294325.751	9468	21-Dec-13	ALEX122113.SSF	575951.644	42838
721977.8	4294326.602	9567	21-Dec-13	ALEX122113.SSF	575952.7251	42839
721978.2	4294327.145	8991	21-Dec-13	ALEX122113.SSF	575953.6118	42840
721978.707	4294327.701	8548	21-Dec-13	ALEX122113.SSF	575954.7529	42841
721979.004	4294328.094	8707	21-Dec-13	ALEX122113.SSF	575955.5962	42842
721979.333	4294328.594	9226	21-Dec-13	ALEX122113.SSF	575956.6968	42843
721979.691	4294329.138	9506	21-Dec-13	ALEX122113.SSF	575957.584	42844
721980.276	4294329.861	9246	21-Dec-13	ALEX122113.SSF	575958.6719	42845
721980.826	4294330.6	8701	21-Dec-13	ALEX122113.SSF	575959.584	42846
721981.49	4294331.531	8475	21-Dec-13	ALEX122113.SSF	575960.748	42847
721981.942	4294332.078	8718	21-Dec-13	ALEX122113.SSF	575961.7051	42848
721982.309	4294332.446	8329	21-Dec-13	ALEX122113.SSF	575962.7339	42849
721982.577	4294332.749	10002	21-Dec-13	ALEX122113.SSF	575963.6919	42850

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721982.886	4294333.178	8530	21-Dec-13	ALEX122113.SSF	575964.731	42851
721983.177	4294333.509	8072	21-Dec-13	ALEX122113.SSF	575965.667	42852
721983.587	4294333.918	8708	21-Dec-13	ALEX122113.SSF	575966.7412	42853
721984	4294334.309	8297	21-Dec-13	ALEX122113.SSF	575967.6792	42854
721984.327	4294334.806	8884	21-Dec-13	ALEX122113.SSF	575968.7358	42855
721984.298	4294335.253	10891	21-Dec-13	ALEX122113.SSF	575969.667	42856
721984.018	4294335.824	10102	21-Dec-13	ALEX122113.SSF	575970.7632	42857
721983.63	4294336.133	9275	21-Dec-13	ALEX122113.SSF	575971.689	42858
721983.341	4294336.135	9129	21-Dec-13	ALEX122113.SSF	575972.8198	42859
721983.364	4294335.948	9212	21-Dec-13	ALEX122113.SSF	575973.6948	42860
721983.462	4294335.795	9113	21-Dec-13	ALEX122113.SSF	575974.8418	42861
721983.444	4294335.775	8518	21-Dec-13	ALEX122113.SSF	575975.6538	42862
721983.361	4294335.762	9809	21-Dec-13	ALEX122113.SSF	575976.6572	42863
721983.28	4294335.742	9802	21-Dec-13	ALEX122113.SSF	575977.7021	42864
721983.229	4294335.709	9620	21-Dec-13	ALEX122113.SSF	575978.7139	42865
721983.2	4294335.652	9215	21-Dec-13	ALEX122113.SSF	575979.6611	42866
721983.166	4294335.613	9503	21-Dec-13	ALEX122113.SSF	575980.7568	42867
721983.029	4294335.675	9096	21-Dec-13	ALEX122113.SSF	575981.647	42868
721982.849	4294335.833	9834	21-Dec-13	ALEX122113.SSF	575982.749	42869
721982.753	4294335.733	9928	21-Dec-13	ALEX122113.SSF	575983.687	42870
721982.625	4294335.298	8752	21-Dec-13	ALEX122113.SSF	575984.7739	42871
721982.396	4294334.8	8848	21-Dec-13	ALEX122113.SSF	575985.6768	42872
721981.959	4294334.116	9442	21-Dec-13	ALEX122113.SSF	575986.7778	42873
721981.512	4294333.527	9710	21-Dec-13	ALEX122113.SSF	575987.6548	42874
721981.06	4294332.924	9807	21-Dec-13	ALEX122113.SSF	575988.771	42875
721980.799	4294332.574	9262	21-Dec-13	ALEX122113.SSF	575989.6968	42876
721980.4	4294332.171	7895	21-Dec-13	ALEX122113.SSF	575990.729	42877
721979.985	4294331.647	9773	21-Dec-13	ALEX122113.SSF	575991.6392	42878
721979.557	4294331.027	9373	21-Dec-13	ALEX122113.SSF	575992.7622	42879
721979.346	4294330.659	10113	21-Dec-13	ALEX122113.SSF	575993.6758	42880
721979.139	4294330.248	9098	21-Dec-13	ALEX122113.SSF	575994.7168	42881
721978.893	4294329.854	9444	21-Dec-13	ALEX122113.SSF	575995.623	42882
721978.463	4294329.172	9351	21-Dec-13	ALEX122113.SSF	575996.7212	42883
721978.074	4294328.621	9777	21-Dec-13	ALEX122113.SSF	575997.5859	42884
721977.559	4294327.928	9494	21-Dec-13	ALEX122113.SSF	575998.749	42885
721977.221	4294327.315	10503	21-Dec-13	ALEX122113.SSF	575999.624	42886
721976.802	4294326.488	11235	21-Dec-13	ALEX122113.SSF	576000.7451	42887
721976.484	4294325.979	9768	21-Dec-13	ALEX122113.SSF	576001.582	42888
721976.059	4294325.232	9642	21-Dec-13	ALEX122113.SSF	576002.7002	42889
721975.679	4294324.632	9160	21-Dec-13	ALEX122113.SSF	576003.6221	42890
721975.224	4294324.058	8500	21-Dec-13	ALEX122113.SSF	576004.7251	42891
721974.894	4294323.63	9355	21-Dec-13	ALEX122113.SSF	576005.6729	42892
721974.418	4294322.975	10108	21-Dec-13	ALEX122113.SSF	576006.7651	42893
721973.918	4294322.203	9757	21-Dec-13	ALEX122113.SSF	576007.7041	42894
721973.452	4294321.534	9849	21-Dec-13	ALEX122113.SSF	576008.7808	42895
721973.154	4294321.215	8852	21-Dec-13	ALEX122113.SSF	576009.6958	42896
721972.884	4294320.909	9023	21-Dec-13	ALEX122113.SSF	576010.7891	42897

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721972.796	4294320.798	9545	21-Dec-13	ALEX122113.SSF	576011.707	42898
721972.695	4294320.732	8056	21-Dec-13	ALEX122113.SSF	576012.7988	42899
721972.682	4294320.655	9484	21-Dec-13	ALEX122113.SSF	576013.709	42900
721972.585	4294320.592	9121	21-Dec-13	ALEX122113.SSF	576014.7871	42901
721972.489	4294320.682	10050	21-Dec-13	ALEX122113.SSF	576015.5771	42902
721972.442	4294320.543	9502	21-Dec-13	ALEX122113.SSF	576016.7222	42903
721972.559	4294320.224	9545	21-Dec-13	ALEX122113.SSF	576017.6069	42904
721972.668	4294320.034	9976	21-Dec-13	ALEX122113.SSF	576018.6602	42905
721972.674	4294320.09	9274	21-Dec-13	ALEX122113.SSF	576019.6069	42906
721972.664	4294320.216	9458	21-Dec-13	ALEX122113.SSF	576020.7202	42907
721972.66	4294320.148	10374	21-Dec-13	ALEX122113.SSF	576021.6479	42908
721972.694	4294320.118	9253	21-Dec-13	ALEX122113.SSF	576022.7979	42909
721972.712	4294320.187	7863	21-Dec-13	ALEX122113.SSF	576023.6509	42910
721972.708	4294320.248	8745	21-Dec-13	ALEX122113.SSF	576024.7998	42911
721972.69	4294320.273	8006	21-Dec-13	ALEX122113.SSF	576025.5771	42912
721972.679	4294320.204	8721	21-Dec-13	ALEX122113.SSF	576026.6729	42913
721972.691	4294320.053	9590	21-Dec-13	ALEX122113.SSF	576027.625	42914
721972.728	4294319.966	9567	21-Dec-13	ALEX122113.SSF	576028.6992	42915
721972.736	4294319.966	9202	21-Dec-13	ALEX122113.SSF	576029.582	42916
721972.72	4294320.008	8690	21-Dec-13	ALEX122113.SSF	576030.6968	42917
721972.705	4294320.082	10152	21-Dec-13	ALEX122113.SSF	576031.6479	42918
721972.656	4294320.208	8388	21-Dec-13	ALEX122113.SSF	576032.7192	42919
721972.639	4294320.313	9417	21-Dec-13	ALEX122113.SSF	576033.6201	42920
721972.628	4294320.323	8924	21-Dec-13	ALEX122113.SSF	576034.7031	42921
721972.61	4294320.288	7511	21-Dec-13	ALEX122113.SSF	576035.7148	42922
721972.585	4294320.289	8837	21-Dec-13	ALEX122113.SSF	576036.7388	42923
721972.564	4294320.303	9199	21-Dec-13	ALEX122113.SSF	576037.6572	42924
721972.534	4294320.248	9499	21-Dec-13	ALEX122113.SSF	576038.7949	42925
721972.554	4294320.256	9605	21-Dec-13	ALEX122113.SSF	576039.7109	42926
721972.586	4294320.254	10051	21-Dec-13	ALEX122113.SSF	576040.7451	42927
721972.612	4294320.239	9832	21-Dec-13	ALEX122113.SSF	576041.6519	42928
721972.621	4294320.231	10438	21-Dec-13	ALEX122113.SSF	576042.7471	42929
721972.623	4294320.206	9539	21-Dec-13	ALEX122113.SSF	576043.7158	42930
721972.539	4294320.163	10515	21-Dec-13	ALEX122113.SSF	576044.7378	42931
721972.466	4294320.126	10518	21-Dec-13	ALEX122113.SSF	576045.6372	42932
721972.471	4294320.11	9349	21-Dec-13	ALEX122113.SSF	576046.752	42933
721972.504	4294320.118	9447	21-Dec-13	ALEX122113.SSF	576047.5981	42934
721972.504	4294320.098	9922	21-Dec-13	ALEX122113.SSF	576048.7358	42935
721972.478	4294320.071	8690	21-Dec-13	ALEX122113.SSF	576049.6841	42936
721972.466	4294319.965	10212	21-Dec-13	ALEX122113.SSF	576050.709	42937
721972.239	4294319.617	11313	21-Dec-13	ALEX122113.SSF	576051.71	42938
721971.872	4294319.033	10448	21-Dec-13	ALEX122113.SSF	576052.7778	42939
721971.576	4294318.505	10742	21-Dec-13	ALEX122113.SSF	576053.688	42940
721971.159	4294317.967	10665	21-Dec-13	ALEX122113.SSF	576054.7178	42941
721970.734	4294317.353	9236	21-Dec-13	ALEX122113.SSF	576055.6392	42942
721970.256	4294316.61	10079	21-Dec-13	ALEX122113.SSF	576056.689	42943
721969.863	4294316.108	9060	21-Dec-13	ALEX122113.SSF	576057.6538	42944

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721969.512	4294315.64	8205	21-Dec-13	ALEX122113.SSF	576058.6782	42945
721958.722	4294299.505	9401	21-Dec-13	ALEX122113.SSF	576085.5601	42946
721958.722	4294299.505	10090	21-Dec-13	ALEX122113.SSF	576085.561	42947
721958.722	4294299.505	10532	21-Dec-13	ALEX122113.SSF	576085.561	42948
721958.722	4294299.504	10103	21-Dec-13	ALEX122113.SSF	576085.562	42949
721958.722	4294299.504	10085	21-Dec-13	ALEX122113.SSF	576085.562	42950
721958.721	4294299.503	9391	21-Dec-13	ALEX122113.SSF	576085.563	42951
721958.721	4294299.503	9307	21-Dec-13	ALEX122113.SSF	576085.564	42952
721958.721	4294299.503	9437	21-Dec-13	ALEX122113.SSF	576085.564	42953
721958.72	4294299.502	9799	21-Dec-13	ALEX122113.SSF	576085.5649	42954
721958.72	4294299.502	9889	21-Dec-13	ALEX122113.SSF	576085.5659	42955
721958.72	4294299.502	9552	21-Dec-13	ALEX122113.SSF	576085.5659	42956
721958.72	4294299.501	10038	21-Dec-13	ALEX122113.SSF	576085.5669	42957
721958.72	4294299.501	10189	21-Dec-13	ALEX122113.SSF	576085.5669	42958
721958.719	4294299.5	9747	21-Dec-13	ALEX122113.SSF	576085.5688	42959
721958.719	4294299.5	8917	21-Dec-13	ALEX122113.SSF	576085.5688	42960
721958.719	4294299.499	9489	21-Dec-13	ALEX122113.SSF	576085.5698	42961
721958.719	4294299.499	9512	21-Dec-13	ALEX122113.SSF	576085.5698	42962
721958.718	4294299.498	9158	21-Dec-13	ALEX122113.SSF	576085.5708	42963
721958.718	4294299.498	9279	21-Dec-13	ALEX122113.SSF	576085.5718	42964
721958.718	4294299.498	9760	21-Dec-13	ALEX122113.SSF	576085.5718	42965
721958.717	4294299.497	9640	21-Dec-13	ALEX122113.SSF	576085.5732	42966
721958.717	4294299.496	8920	21-Dec-13	ALEX122113.SSF	576085.5742	42967
721958.716	4294299.496	8740	21-Dec-13	ALEX122113.SSF	576085.5752	42968
721958.716	4294299.496	9055	21-Dec-13	ALEX122113.SSF	576085.5752	42969
721958.716	4294299.495	7843	21-Dec-13	ALEX122113.SSF	576085.5762	42970
721958.716	4294299.495	8741	21-Dec-13	ALEX122113.SSF	576085.5762	42971
721958.716	4294299.494	7105	21-Dec-13	ALEX122113.SSF	576085.5771	42972
721958.715	4294299.494	7206	21-Dec-13	ALEX122113.SSF	576085.5781	42973
721958.715	4294299.493	8101	21-Dec-13	ALEX122113.SSF	576085.5791	42974
721958.715	4294299.493	8355	21-Dec-13	ALEX122113.SSF	576085.5801	42975
721958.714	4294299.491	8838	21-Dec-13	ALEX122113.SSF	576085.582	42976
721958.713	4294299.491	8989	21-Dec-13	ALEX122113.SSF	576085.583	42977
721958.713	4294299.49	9627	21-Dec-13	ALEX122113.SSF	576085.584	42978
721958.713	4294299.489	8467	21-Dec-13	ALEX122113.SSF	576085.585	42979
721958.712	4294299.489	9586	21-Dec-13	ALEX122113.SSF	576085.5859	42980
721957.655	4294297.919	8726	21-Dec-13	ALEX122113.SSF	576088.6851	42981
721957.483	4294297.65	7761	21-Dec-13	ALEX122113.SSF	576089.6118	42982
721957.284	4294297.339	7610	21-Dec-13	ALEX122113.SSF	576090.6841	42983
721957.111	4294297.068	7572	21-Dec-13	ALEX122113.SSF	576091.6152	42984
721956.917	4294296.766	7533	21-Dec-13	ALEX122113.SSF	576092.6548	42985
721956.917	4294296.766	6353	21-Dec-13	ALEX122113.SSF	576092.6558	42986
721956.917	4294296.766	6162	21-Dec-13	ALEX122113.SSF	576092.6572	42987
721956.917	4294296.765	6850	21-Dec-13	ALEX122113.SSF	576092.6582	42988
721956.916	4294296.765	6512	21-Dec-13	ALEX122113.SSF	576092.6592	42989
721956.916	4294296.765	7448	21-Dec-13	ALEX122113.SSF	576092.6602	42990
721956.731	4294296.475	5942	21-Dec-13	ALEX122113.SSF	576093.6582	42991

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721954.511	4294293.007	6379	21-Dec-13	ALEX122113.SSF	576105.5991	42992
721954.3	4294292.677	6485	21-Dec-13	ALEX122113.SSF	576106.7339	42993
721954.127	4294292.406	5521	21-Dec-13	ALEX122113.SSF	576107.668	42994
721953.932	4294292.101	5603	21-Dec-13	ALEX122113.SSF	576108.7158	42995
721953.76	4294291.832	5956	21-Dec-13	ALEX122113.SSF	576109.6431	42996
721953.569	4294291.535	5473	21-Dec-13	ALEX122113.SSF	576110.667	42997
721953.393	4294291.26	5651	21-Dec-13	ALEX122113.SSF	576111.6128	42998
721953.199	4294290.956	5503	21-Dec-13	ALEX122113.SSF	576112.6611	42999
721953.025	4294290.684	6021	21-Dec-13	ALEX122113.SSF	576113.5962	43000
721952.809	4294290.347	5707	21-Dec-13	ALEX122113.SSF	576114.7549	43001
721952.641	4294290.084	5790	21-Dec-13	ALEX122113.SSF	576115.6602	43002
721952.423	4294289.744	6114	21-Dec-13	ALEX122113.SSF	576116.8311	43003
721952.263	4294289.494	5773	21-Dec-13	ALEX122113.SSF	576117.6929	43004
721952.055	4294289.168	6224	21-Dec-13	ALEX122113.SSF	576118.8149	43005
721951.882	4294288.898	6399	21-Dec-13	ALEX122113.SSF	576119.7451	43006
721951.693	4294288.602	6039	21-Dec-13	ALEX122113.SSF	576120.7632	43007
721951.523	4294288.338	5790	21-Dec-13	ALEX122113.SSF	576121.6748	43008
721951.331	4294288.037	5724	21-Dec-13	ALEX122113.SSF	576122.71	43009
721951.155	4294287.763	6347	21-Dec-13	ALEX122113.SSF	576123.6528	43010
721950.959	4294287.457	6836	21-Dec-13	ALEX122113.SSF	576124.708	43011
721950.781	4294287.178	5879	21-Dec-13	ALEX122113.SSF	576125.666	43012
721950.587	4294286.875	5527	21-Dec-13	ALEX122113.SSF	576126.7109	43013
721950.411	4294286.6	6078	21-Dec-13	ALEX122113.SSF	576127.6572	43014
721950.216	4294286.295	6329	21-Dec-13	ALEX122113.SSF	576128.708	43015
721950.037	4294286.015	6562	21-Dec-13	ALEX122113.SSF	576129.6709	43016
721949.834	4294285.698	5360	21-Dec-13	ALEX122113.SSF	576130.7612	43017
721949.674	4294285.449	5985	21-Dec-13	ALEX122113.SSF	576131.6201	43018
721949.474	4294285.135	6359	21-Dec-13	ALEX122113.SSF	576132.7012	43019
721949.291	4294284.849	5700	21-Dec-13	ALEX122113.SSF	576133.6841	43020
721948.947	4294284.936	6033	21-Dec-13	ALEX122113.SSF	576134.6641	43021
721948.554	4294285.168	6057	21-Dec-13	ALEX122113.SSF	576135.6392	43022
721948.275	4294285.138	5927	21-Dec-13	ALEX122113.SSF	576136.6938	43023
721948.073	4294284.819	6266	21-Dec-13	ALEX122113.SSF	576137.6421	43024
721947.808	4294284.234	6156	21-Dec-13	ALEX122113.SSF	576138.687	43025
721947.367	4294283.797	6568	21-Dec-13	ALEX122113.SSF	576139.6558	43026
721947.292	4294283.592	5778	21-Dec-13	ALEX122113.SSF	576140.6582	43027
721947.421	4294283.772	5875	21-Dec-13	ALEX122113.SSF	576141.5972	43028
721959.918	4294306.69	6499	21-Dec-13	ALEX122113.SSF	576303.2271	43029
721960.031	4294306.872	5857	21-Dec-13	ALEX122113.SSF	576304.7729	43030
721960.074	4294306.941	6069	21-Dec-13	ALEX122113.SSF	576305.3618	43031
721960.074	4294306.942	5837	21-Dec-13	ALEX122113.SSF	576305.3672	43032
721960.074	4294306.942	6163	21-Dec-13	ALEX122113.SSF	576305.3721	43033
721960.075	4294306.943	6401	21-Dec-13	ALEX122113.SSF	576305.376	43034
721960.075	4294306.943	6550	21-Dec-13	ALEX122113.SSF	576305.3809	43035
721960.075	4294306.944	6257	21-Dec-13	ALEX122113.SSF	576305.3838	43036
721960.076	4294306.944	6244	21-Dec-13	ALEX122113.SSF	576305.3882	43037
721960.076	4294306.945	5821	21-Dec-13	ALEX122113.SSF	576305.3911	43038

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721960.076	4294306.945	5554	21-Dec-13	ALEX122113.SSF	576305.394	43039
721960.077	4294306.946	5599	21-Dec-13	ALEX122113.SSF	576305.3999	43040
721960.077	4294306.947	5279	21-Dec-13	ALEX122113.SSF	576305.4102	43041
721960.078	4294306.948	5557	21-Dec-13	ALEX122113.SSF	576305.417	43042
721960.078	4294306.948	6298	21-Dec-13	ALEX122113.SSF	576305.4209	43043
721960.078	4294306.949	5872	21-Dec-13	ALEX122113.SSF	576305.4238	43044
721960.079	4294306.949	6370	21-Dec-13	ALEX122113.SSF	576305.4282	43045
721960.079	4294306.949	5762	21-Dec-13	ALEX122113.SSF	576305.4312	43046
721960.079	4294306.95	6256	21-Dec-13	ALEX122113.SSF	576305.4351	43047
721960.079	4294306.95	6484	21-Dec-13	ALEX122113.SSF	576305.439	43048
721960.197	4294307.141	6511	21-Dec-13	ALEX122113.SSF	576307.061	43049
721960.198	4294307.143	6247	21-Dec-13	ALEX122113.SSF	576307.0718	43050
721960.199	4294307.144	7142	21-Dec-13	ALEX122113.SSF	576307.084	43051
721960.2	4294307.145	7065	21-Dec-13	ALEX122113.SSF	576307.0942	43052
721960.201	4294307.147	6776	21-Dec-13	ALEX122113.SSF	576307.105	43053
721960.202	4294307.148	6944	21-Dec-13	ALEX122113.SSF	576307.1172	43054
721960.202	4294307.149	7136	21-Dec-13	ALEX122113.SSF	576307.127	43055
721960.203	4294307.151	7214	21-Dec-13	ALEX122113.SSF	576307.1382	43056
721960.204	4294307.152	6423	21-Dec-13	ALEX122113.SSF	576307.1479	43057
721960.204	4294307.152	6915	21-Dec-13	ALEX122113.SSF	576307.1538	43058
721960.206	4294307.155	7578	21-Dec-13	ALEX122113.SSF	576307.1729	43059
721960.206	4294307.156	8734	21-Dec-13	ALEX122113.SSF	576307.1841	43060
721960.207	4294307.157	8153	21-Dec-13	ALEX122113.SSF	576307.1948	43061
721960.209	4294307.16	8248	21-Dec-13	ALEX122113.SSF	576307.2178	43062
721960.21	4294307.162	9172	21-Dec-13	ALEX122113.SSF	576307.2388	43063
721960.211	4294307.164	9253	21-Dec-13	ALEX122113.SSF	576307.2529	43064
721960.212	4294307.165	8943	21-Dec-13	ALEX122113.SSF	576307.2632	43065
721960.213	4294307.167	8445	21-Dec-13	ALEX122113.SSF	576307.2739	43066
721960.214	4294307.168	9041	21-Dec-13	ALEX122113.SSF	576307.2842	43067
721960.214	4294307.168	8860	21-Dec-13	ALEX122113.SSF	576307.2871	43068
721960.215	4294307.169	9625	21-Dec-13	ALEX122113.SSF	576307.2969	43069
721960.215	4294307.169	8346	21-Dec-13	ALEX122113.SSF	576307.2988	43070
721960.215	4294307.171	8116	21-Dec-13	ALEX122113.SSF	576307.3081	43071
721960.216	4294307.171	7639	21-Dec-13	ALEX122113.SSF	576307.3101	43072
721960.216	4294307.172	8869	21-Dec-13	ALEX122113.SSF	576307.3188	43073
721960.217	4294307.173	8307	21-Dec-13	ALEX122113.SSF	576307.3291	43074
721960.218	4294307.174	8647	21-Dec-13	ALEX122113.SSF	576307.3398	43075
721960.218	4294307.175	8281	21-Dec-13	ALEX122113.SSF	576307.3428	43076
721960.219	4294307.176	9390	21-Dec-13	ALEX122113.SSF	576307.353	43077
721960.22	4294307.178	9367	21-Dec-13	ALEX122113.SSF	576307.3672	43078
721960.22	4294307.178	9512	21-Dec-13	ALEX122113.SSF	576307.3711	43079
721960.22	4294307.178	8648	21-Dec-13	ALEX122113.SSF	576307.374	43080
721960.22	4294307.179	8222	21-Dec-13	ALEX122113.SSF	576307.377	43081
721960.221	4294307.179	8865	21-Dec-13	ALEX122113.SSF	576307.3838	43082
721960.222	4294307.181	10136	21-Dec-13	ALEX122113.SSF	576307.3989	43083
721960.224	4294307.184	10154	21-Dec-13	ALEX122113.SSF	576307.4189	43084
721960.225	4294307.186	10008	21-Dec-13	ALEX122113.SSF	576307.4351	43085

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721960.226	4294307.188	9612	21-Dec-13	ALEX122113.SSF	576307.4521	43086
721960.227	4294307.189	10023	21-Dec-13	ALEX122113.SSF	576307.4639	43087
721960.228	4294307.19	8595	21-Dec-13	ALEX122113.SSF	576307.4771	43088
721960.229	4294307.192	8898	21-Dec-13	ALEX122113.SSF	576307.4902	43089
721960.23	4294307.194	9124	21-Dec-13	ALEX122113.SSF	576307.5029	43090
721960.231	4294307.196	9271	21-Dec-13	ALEX122113.SSF	576307.5239	43091
721960.232	4294307.197	9187	21-Dec-13	ALEX122113.SSF	576307.5361	43092
721960.233	4294307.199	9677	21-Dec-13	ALEX122113.SSF	576307.5479	43093
721960.234	4294307.2	9619	21-Dec-13	ALEX122113.SSF	576307.5591	43094
721960.235	4294307.202	9484	21-Dec-13	ALEX122113.SSF	576307.5708	43095
721960.236	4294307.203	8521	21-Dec-13	ALEX122113.SSF	576307.5859	43096
721960.237	4294307.206	10050	21-Dec-13	ALEX122113.SSF	576307.606	43097
721960.238	4294307.207	10792	21-Dec-13	ALEX122113.SSF	576307.6191	43098
721960.239	4294307.209	11338	21-Dec-13	ALEX122113.SSF	576307.6318	43099
721960.24	4294307.21	9464	21-Dec-13	ALEX122113.SSF	576307.646	43100
721960.24	4294307.211	9686	21-Dec-13	ALEX122113.SSF	576307.6519	43101
721960.242	4294307.214	9771	21-Dec-13	ALEX122113.SSF	576307.6748	43102
721960.243	4294307.215	8832	21-Dec-13	ALEX122113.SSF	576307.689	43103
721960.244	4294307.216	9468	21-Dec-13	ALEX122113.SSF	576307.6938	43104
721960.244	4294307.217	8277	21-Dec-13	ALEX122113.SSF	576307.7021	43105
721960.245	4294307.218	9269	21-Dec-13	ALEX122113.SSF	576307.709	43106
721960.245	4294307.218	9967	21-Dec-13	ALEX122113.SSF	576307.7139	43107
721960.246	4294307.219	9691	21-Dec-13	ALEX122113.SSF	576307.7231	43108
721960.246	4294307.22	9172	21-Dec-13	ALEX122113.SSF	576307.731	43109
721960.247	4294307.221	9403	21-Dec-13	ALEX122113.SSF	576307.7358	43110
721960.247	4294307.222	9041	21-Dec-13	ALEX122113.SSF	576307.7432	43111
721960.248	4294307.222	8590	21-Dec-13	ALEX122113.SSF	576307.748	43112
721960.248	4294307.223	8807	21-Dec-13	ALEX122113.SSF	576307.7549	43113
721960.248	4294307.224	8711	21-Dec-13	ALEX122113.SSF	576307.7588	43114
721960.252	4294307.229	8298	21-Dec-13	ALEX122113.SSF	576307.8062	43115
721960.252	4294307.23	8704	21-Dec-13	ALEX122113.SSF	576307.812	43116
721960.252	4294307.23	10096	21-Dec-13	ALEX122113.SSF	576307.8149	43117
721960.253	4294307.231	9334	21-Dec-13	ALEX122113.SSF	576307.8188	43118
721960.253	4294307.231	9443	21-Dec-13	ALEX122113.SSF	576307.8242	43119
721960.253	4294307.232	10971	21-Dec-13	ALEX122113.SSF	576307.8271	43120
721960.254	4294307.232	9732	21-Dec-13	ALEX122113.SSF	576307.8311	43121
721960.254	4294307.233	9633	21-Dec-13	ALEX122113.SSF	576307.8369	43122
721960.254	4294307.233	9578	21-Dec-13	ALEX122113.SSF	576307.8408	43123
721960.255	4294307.234	8664	21-Dec-13	ALEX122113.SSF	576307.8462	43124
721960.255	4294307.234	8106	21-Dec-13	ALEX122113.SSF	576307.8501	43125
721960.255	4294307.235	9706	21-Dec-13	ALEX122113.SSF	576307.853	43126
721960.256	4294307.236	10316	21-Dec-13	ALEX122113.SSF	576307.8599	43127
721960.256	4294307.236	10409	21-Dec-13	ALEX122113.SSF	576307.8628	43128
721960.256	4294307.237	10192	21-Dec-13	ALEX122113.SSF	576307.8691	43129
721960.257	4294307.237	10138	21-Dec-13	ALEX122113.SSF	576307.873	43130
721960.257	4294307.238	9584	21-Dec-13	ALEX122113.SSF	576307.8799	43131
721960.258	4294307.239	10016	21-Dec-13	ALEX122113.SSF	576307.8862	43132

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721960.258	4294307.24	11114	21-Dec-13	ALEX122113.SSF	576307.894	43133
721960.259	4294307.241	9468	21-Dec-13	ALEX122113.SSF	576307.9038	43134
721960.259	4294307.241	9627	21-Dec-13	ALEX122113.SSF	576307.9082	43135
721960.26	4294307.242	10296	21-Dec-13	ALEX122113.SSF	576307.916	43136
721960.261	4294307.243	10344	21-Dec-13	ALEX122113.SSF	576307.9268	43137
721960.261	4294307.245	9816	21-Dec-13	ALEX122113.SSF	576307.938	43138
721960.262	4294307.246	9744	21-Dec-13	ALEX122113.SSF	576307.9458	43139
721960.263	4294307.247	9756	21-Dec-13	ALEX122113.SSF	576307.9551	43140
721960.263	4294307.248	9819	21-Dec-13	ALEX122113.SSF	576307.9639	43141
721960.264	4294307.248	11334	21-Dec-13	ALEX122113.SSF	576307.9678	43142
721960.264	4294307.249	11383	21-Dec-13	ALEX122113.SSF	576307.9741	43143
721960.264	4294307.25	9776	21-Dec-13	ALEX122113.SSF	576307.979	43144
721960.266	4294307.252	8024	21-Dec-13	ALEX122113.SSF	576307.9961	43145
721960.267	4294307.254	9356	21-Dec-13	ALEX122113.SSF	576308.0122	43146
721960.268	4294307.256	8969	21-Dec-13	ALEX122113.SSF	576308.0298	43147
721960.269	4294307.256	9682	21-Dec-13	ALEX122113.SSF	576308.0371	43148
721960.269	4294307.258	9800	21-Dec-13	ALEX122113.SSF	576308.0488	43149
721960.27	4294307.259	10010	21-Dec-13	ALEX122113.SSF	576308.0591	43150
721960.271	4294307.26	10032	21-Dec-13	ALEX122113.SSF	576308.0688	43151
721960.272	4294307.261	9708	21-Dec-13	ALEX122113.SSF	576308.0791	43152
721960.272	4294307.263	8997	21-Dec-13	ALEX122113.SSF	576308.0908	43153
721960.273	4294307.264	9119	21-Dec-13	ALEX122113.SSF	576308.1021	43154
721960.274	4294307.266	9960	21-Dec-13	ALEX122113.SSF	576308.1162	43155
721960.275	4294307.267	9390	21-Dec-13	ALEX122113.SSF	576308.1279	43156
721960.276	4294307.269	9397	21-Dec-13	ALEX122113.SSF	576308.1431	43157
721960.277	4294307.271	9879	21-Dec-13	ALEX122113.SSF	576308.1572	43158
721960.278	4294307.272	10809	21-Dec-13	ALEX122113.SSF	576308.1719	43159
721960.279	4294307.274	10772	21-Dec-13	ALEX122113.SSF	576308.1851	43160
721960.281	4294307.276	9683	21-Dec-13	ALEX122113.SSF	576308.2041	43161
721960.282	4294307.278	9860	21-Dec-13	ALEX122113.SSF	576308.2192	43162
721960.283	4294307.28	9545	21-Dec-13	ALEX122113.SSF	576308.2349	43163
721960.284	4294307.282	8656	21-Dec-13	ALEX122113.SSF	576308.2539	43164
721960.285	4294307.284	8554	21-Dec-13	ALEX122113.SSF	576308.269	43165
721960.287	4294307.286	9338	21-Dec-13	ALEX122113.SSF	576308.2852	43166
721960.288	4294307.287	10194	21-Dec-13	ALEX122113.SSF	576308.2979	43167
721960.291	4294307.292	10138	21-Dec-13	ALEX122113.SSF	576308.3389	43168
721960.291	4294307.293	9284	21-Dec-13	ALEX122113.SSF	576308.3481	43169
721960.292	4294307.294	8441	21-Dec-13	ALEX122113.SSF	576308.355	43170
721960.292	4294307.295	9910	21-Dec-13	ALEX122113.SSF	576308.3628	43171
721960.293	4294307.296	10457	21-Dec-13	ALEX122113.SSF	576308.3701	43172
721960.293	4294307.297	10384	21-Dec-13	ALEX122113.SSF	576308.3789	43173
721960.294	4294307.298	10246	21-Dec-13	ALEX122113.SSF	576308.3862	43174
721960.295	4294307.299	9641	21-Dec-13	ALEX122113.SSF	576308.397	43175
721960.295	4294307.3	9460	21-Dec-13	ALEX122113.SSF	576308.4058	43176
721960.296	4294307.301	11065	21-Dec-13	ALEX122113.SSF	576308.4189	43177
721960.297	4294307.303	11106	21-Dec-13	ALEX122113.SSF	576308.4302	43178
721960.298	4294307.305	9586	21-Dec-13	ALEX122113.SSF	576308.4448	43179

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721960.299	4294307.306	9473	21-Dec-13	ALEX122113.SSF	576308.458	43180
721960.301	4294307.308	9464	21-Dec-13	ALEX122113.SSF	576308.4771	43181
721960.301	4294307.309	9476	21-Dec-13	ALEX122113.SSF	576308.4868	43182
721960.302	4294307.311	9689	21-Dec-13	ALEX122113.SSF	576308.499	43183
721960.303	4294307.312	10162	21-Dec-13	ALEX122113.SSF	576308.5112	43184
721960.304	4294307.314	9920	21-Dec-13	ALEX122113.SSF	576308.5259	43185
721960.305	4294307.315	8540	21-Dec-13	ALEX122113.SSF	576308.5371	43186
721960.306	4294307.318	8615	21-Dec-13	ALEX122113.SSF	576308.5562	43187
721960.307	4294307.319	9413	21-Dec-13	ALEX122113.SSF	576308.5708	43188
721960.309	4294307.322	9373	21-Dec-13	ALEX122113.SSF	576308.5952	43189
721960.311	4294307.326	9483	21-Dec-13	ALEX122113.SSF	576308.625	43190
721960.312	4294307.327	10680	21-Dec-13	ALEX122113.SSF	576308.6372	43191
721960.313	4294307.328	9990	21-Dec-13	ALEX122113.SSF	576308.6479	43192
721960.314	4294307.33	9577	21-Dec-13	ALEX122113.SSF	576308.6582	43193
721960.314	4294307.331	9864	21-Dec-13	ALEX122113.SSF	576308.668	43194
721960.315	4294307.332	9216	21-Dec-13	ALEX122113.SSF	576308.6782	43195
721960.388	4294307.449	9684	21-Dec-13	ALEX122113.SSF	576309.6729	43196
721960.456	4294307.559	9561	21-Dec-13	ALEX122113.SSF	576310.6069	43197
721963.879	4294312.992	8980	21-Dec-13	ALEX122113.SSF	576362.9722	43198
721963.879	4294312.992	8397	21-Dec-13	ALEX122113.SSF	576362.979	43199
721963.879	4294312.992	9119	21-Dec-13	ALEX122113.SSF	576362.9829	43200
721963.879	4294312.992	9750	21-Dec-13	ALEX122113.SSF	576362.9912	43201
721963.879	4294312.992	11107	21-Dec-13	ALEX122113.SSF	576363.0151	43202
721963.878	4294312.992	10606	21-Dec-13	ALEX122113.SSF	576363.0161	43203
721963.878	4294312.992	9941	21-Dec-13	ALEX122113.SSF	576363.0171	43204
721963.878	4294312.992	10015	21-Dec-13	ALEX122113.SSF	576363.0181	43205
721963.878	4294312.993	9764	21-Dec-13	ALEX122113.SSF	576363.019	43206
721963.878	4294312.993	9581	21-Dec-13	ALEX122113.SSF	576363.02	43207
721963.878	4294312.993	9235	21-Dec-13	ALEX122113.SSF	576363.021	43208
721963.878	4294312.993	10138	21-Dec-13	ALEX122113.SSF	576363.022	43209
721963.878	4294312.993	9584	21-Dec-13	ALEX122113.SSF	576363.0229	43210
721963.878	4294312.993	9266	21-Dec-13	ALEX122113.SSF	576363.0239	43211
721963.878	4294312.993	9426	21-Dec-13	ALEX122113.SSF	576363.0249	43212
721963.878	4294312.993	9166	21-Dec-13	ALEX122113.SSF	576363.0259	43213
721963.878	4294312.993	9221	21-Dec-13	ALEX122113.SSF	576363.0269	43214
721963.878	4294312.993	9835	21-Dec-13	ALEX122113.SSF	576363.0278	43215
721963.878	4294312.993	10529	21-Dec-13	ALEX122113.SSF	576363.0288	43216
721963.877	4294312.993	9172	21-Dec-13	ALEX122113.SSF	576363.0298	43217
721963.877	4294312.993	9343	21-Dec-13	ALEX122113.SSF	576363.0308	43218
721963.877	4294312.993	9535	21-Dec-13	ALEX122113.SSF	576363.0322	43219
721963.877	4294312.993	10514	21-Dec-13	ALEX122113.SSF	576363.0332	43220
721963.877	4294312.993	9348	21-Dec-13	ALEX122113.SSF	576363.0342	43221
721963.877	4294312.993	9597	21-Dec-13	ALEX122113.SSF	576363.0352	43222
721963.877	4294312.993	9839	21-Dec-13	ALEX122113.SSF	576363.0361	43223
721963.877	4294312.993	9690	21-Dec-13	ALEX122113.SSF	576363.0371	43224
721963.877	4294312.993	9382	21-Dec-13	ALEX122113.SSF	576363.0381	43225
721963.877	4294312.993	9185	21-Dec-13	ALEX122113.SSF	576363.0391	43226

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721963.877	4294312.993	9436	21-Dec-13	ALEX122113.SSF	576363.04	43227
721963.877	4294312.993	8509	21-Dec-13	ALEX122113.SSF	576363.041	43228
721963.877	4294312.993	9387	21-Dec-13	ALEX122113.SSF	576363.042	43229
721963.877	4294312.993	9697	21-Dec-13	ALEX122113.SSF	576363.043	43230
721963.877	4294312.993	9774	21-Dec-13	ALEX122113.SSF	576363.0439	43231
721963.876	4294312.993	9133	21-Dec-13	ALEX122113.SSF	576363.0449	43232
721963.876	4294312.993	10323	21-Dec-13	ALEX122113.SSF	576363.0459	43233
721963.876	4294312.994	10260	21-Dec-13	ALEX122113.SSF	576363.0469	43234
721963.876	4294312.994	9825	21-Dec-13	ALEX122113.SSF	576363.0479	43235
721963.876	4294312.994	9536	21-Dec-13	ALEX122113.SSF	576363.0488	43236
721963.876	4294312.994	9884	21-Dec-13	ALEX122113.SSF	576363.0498	43237
721963.876	4294312.994	10001	21-Dec-13	ALEX122113.SSF	576363.0508	43238
721963.876	4294312.994	9880	21-Dec-13	ALEX122113.SSF	576363.0518	43239
721963.876	4294312.994	9820	21-Dec-13	ALEX122113.SSF	576363.0532	43240
721963.876	4294312.994	9565	21-Dec-13	ALEX122113.SSF	576363.0542	43241
721963.876	4294312.994	9231	21-Dec-13	ALEX122113.SSF	576363.0552	43242
721963.876	4294312.994	9537	21-Dec-13	ALEX122113.SSF	576363.0562	43243
721963.876	4294312.994	9404	21-Dec-13	ALEX122113.SSF	576363.0571	43244
721963.876	4294312.994	8981	21-Dec-13	ALEX122113.SSF	576363.0581	43245
721963.875	4294312.994	9295	21-Dec-13	ALEX122113.SSF	576363.0591	43246
721963.875	4294312.994	9943	21-Dec-13	ALEX122113.SSF	576363.0601	43247
721963.875	4294312.994	9356	21-Dec-13	ALEX122113.SSF	576363.061	43248
721963.875	4294312.994	9299	21-Dec-13	ALEX122113.SSF	576363.062	43249
721963.875	4294312.994	9554	21-Dec-13	ALEX122113.SSF	576363.063	43250
721963.875	4294312.994	9288	21-Dec-13	ALEX122113.SSF	576363.064	43251
721963.753	4294313.061	9762	21-Dec-13	ALEX122113.SSF	576365.3281	43252
721963.725	4294313.089	9130	21-Dec-13	ALEX122113.SSF	576366.4092	43253
721963.685	4294313.078	9092	21-Dec-13	ALEX122113.SSF	576367.3291	43254
721963.605	4294313.002	9593	21-Dec-13	ALEX122113.SSF	576368.4482	43255
721963.575	4294312.949	8998	21-Dec-13	ALEX122113.SSF	576369.3232	43256
721963.542	4294312.891	10409	21-Dec-13	ALEX122113.SSF	576370.562	43257
721963.523	4294312.863	9052	21-Dec-13	ALEX122113.SSF	576371.4941	43258
721963.502	4294312.814	9133	21-Dec-13	ALEX122113.SSF	576372.584	43259
721963.482	4294312.782	8823	21-Dec-13	ALEX122113.SSF	576373.5122	43260
721963.473	4294312.785	9345	21-Dec-13	ALEX122113.SSF	576374.6489	43261
721963.475	4294312.789	10106	21-Dec-13	ALEX122113.SSF	576375.5591	43262
721963.478	4294312.79	10386	21-Dec-13	ALEX122113.SSF	576376.623	43263
721963.478	4294312.79	10456	21-Dec-13	ALEX122113.SSF	576377.5391	43264
721963.478	4294312.79	10294	21-Dec-13	ALEX122113.SSF	576378.6582	43265
721963.478	4294312.79	9593	21-Dec-13	ALEX122113.SSF	576379.5781	43266
721963.478	4294312.79	9178	21-Dec-13	ALEX122113.SSF	576380.5952	43267
721963.478	4294312.79	9764	21-Dec-13	ALEX122113.SSF	576381.6108	43268
721963.478	4294312.79	9761	21-Dec-13	ALEX122113.SSF	576382.625	43269
721963.478	4294312.79	9580	21-Dec-13	ALEX122113.SSF	576383.5361	43270
721963.478	4294312.79	10135	21-Dec-13	ALEX122113.SSF	576384.6538	43271
721963.478	4294312.79	9703	21-Dec-13	ALEX122113.SSF	576385.5649	43272
721963.478	4294312.79	10106	21-Dec-13	ALEX122113.SSF	576386.6802	43273

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721963.478	4294312.79	9246	21-Dec-13	ALEX122113.SSF	576387.5918	43274
721963.478	4294312.79	8251	21-Dec-13	ALEX122113.SSF	576388.9268	43275
721963.478	4294312.79	8752	21-Dec-13	ALEX122113.SSF	576389.5361	43276
721963.478	4294312.79	9208	21-Dec-13	ALEX122113.SSF	576390.6548	43277
721963.478	4294312.79	9232	21-Dec-13	ALEX122113.SSF	576391.5649	43278
721963.478	4294312.79	9658	21-Dec-13	ALEX122113.SSF	576392.6792	43279
721963.478	4294312.79	10514	21-Dec-13	ALEX122113.SSF	576393.5171	43280
721963.478	4294312.79	9708	21-Dec-13	ALEX122113.SSF	576394.6079	43281
721963.478	4294312.79	9987	21-Dec-13	ALEX122113.SSF	576395.5972	43282
721963.478	4294312.79	10206	21-Dec-13	ALEX122113.SSF	576396.6538	43283
721963.478	4294312.79	10351	21-Dec-13	ALEX122113.SSF	576397.542	43284
721963.478	4294312.79	9337	21-Dec-13	ALEX122113.SSF	576398.6582	43285
721963.478	4294312.79	9774	21-Dec-13	ALEX122113.SSF	576399.5732	43286
721963.478	4294312.79	9373	21-Dec-13	ALEX122113.SSF	576400.5952	43287
721963.478	4294312.79	9663	21-Dec-13	ALEX122113.SSF	576401.5249	43288
721963.478	4294312.79	9735	21-Dec-13	ALEX122113.SSF	576402.6631	43289
721963.478	4294312.79	8313	21-Dec-13	ALEX122113.SSF	576403.6001	43290
721963.478	4294312.79	9548	21-Dec-13	ALEX122113.SSF	576404.6172	43291
721963.478	4294312.79	9287	21-Dec-13	ALEX122113.SSF	576405.5308	43292
721963.478	4294312.79	8561	21-Dec-13	ALEX122113.SSF	576406.645	43293
721963.478	4294312.79	9250	21-Dec-13	ALEX122113.SSF	576407.5181	43294
721963.478	4294312.79	10292	21-Dec-13	ALEX122113.SSF	576408.7202	43295
721963.478	4294312.79	10163	21-Dec-13	ALEX122113.SSF	576409.5449	43296
721963.478	4294312.79	11180	21-Dec-13	ALEX122113.SSF	576410.6572	43297
721963.478	4294312.79	9245	21-Dec-13	ALEX122113.SSF	576411.5732	43298
721963.478	4294312.79	10621	21-Dec-13	ALEX122113.SSF	576412.645	43299
721963.478	4294312.79	9105	21-Dec-13	ALEX122113.SSF	576413.5542	43300
721963.478	4294312.79	8696	21-Dec-13	ALEX122113.SSF	576414.668	43301
721963.478	4294312.79	9824	21-Dec-13	ALEX122113.SSF	576415.585	43302
721963.478	4294312.79	8486	21-Dec-13	ALEX122113.SSF	576416.5952	43303
721963.478	4294312.79	9291	21-Dec-13	ALEX122113.SSF	576417.6108	43304
721963.478	4294312.79	8862	21-Dec-13	ALEX122113.SSF	576418.6538	43305
721963.478	4294312.79	8335	21-Dec-13	ALEX122113.SSF	576419.563	43306
721963.478	4294312.79	9524	21-Dec-13	ALEX122113.SSF	576420.6699	43307
721963.478	4294312.79	10151	21-Dec-13	ALEX122113.SSF	576421.5889	43308
721963.478	4294312.79	9437	21-Dec-13	ALEX122113.SSF	576422.605	43309
721963.478	4294312.79	8839	21-Dec-13	ALEX122113.SSF	576423.5352	43310
721963.478	4294312.79	9709	21-Dec-13	ALEX122113.SSF	576424.5859	43311
721963.478	4294312.79	9657	21-Dec-13	ALEX122113.SSF	576425.5669	43312
721963.478	4294312.79	9224	21-Dec-13	ALEX122113.SSF	576426.5791	43313
721963.478	4294312.79	8636	21-Dec-13	ALEX122113.SSF	576427.54	43314
721963.478	4294312.79	8519	21-Dec-13	ALEX122113.SSF	576428.5581	43315
721963.478	4294312.79	9779	21-Dec-13	ALEX122113.SSF	576429.4692	43316
721963.478	4294312.79	9435	21-Dec-13	ALEX122113.SSF	576430.6221	43317
721963.478	4294312.79	10068	21-Dec-13	ALEX122113.SSF	576431.5322	43318
721963.478	4294312.79	10587	21-Dec-13	ALEX122113.SSF	576432.6572	43319
721963.478	4294312.79	9966	21-Dec-13	ALEX122113.SSF	576433.6172	43320

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722246.853	4294310.296	5129	21-Dec-13	ALEX122113A.SSF	584065.121	43321
722246.853	4294310.296	5210	21-Dec-13	ALEX122113A.SSF	584065.955	43322
722246.853	4294310.296	5210	21-Dec-13	ALEX122113A.SSF	584067.05	43323
722246.853	4294310.296	5398	21-Dec-13	ALEX122113A.SSF	584067.995	43324
722246.868	4294310.265	5376	21-Dec-13	ALEX122113A.SSF	584069.028	43325
722246.924	4294310.235	5251	21-Dec-13	ALEX122113A.SSF	584070.622	43326
722246.978	4294310.206	5444	21-Dec-13	ALEX122113A.SSF	584071.672	43327
722247.036	4294310.174	5274	21-Dec-13	ALEX122113A.SSF	584072.649	43328
722247.099	4294310.143	4774	21-Dec-13	ALEX122113A.SSF	584073.65	43329
722247.15	4294310.127	4913	21-Dec-13	ALEX122113A.SSF	584074.571	43330
722247.192	4294310.123	4586	21-Dec-13	ALEX122113A.SSF	584075.625	43331
722247.212	4294310.116	4597	21-Dec-13	ALEX122113A.SSF	584076.624	43332
722247.277	4294310.025	5098	21-Dec-13	ALEX122113A.SSF	584077.648	43333
722247.366	4294309.92	5313	21-Dec-13	ALEX122113A.SSF	584078.582	43334
722247.443	4294309.847	5043	21-Dec-13	ALEX122113A.SSF	584079.632	43335
722247.483	4294309.799	4757	21-Dec-13	ALEX122113A.SSF	584080.614	43336
722247.513	4294309.74	4670	21-Dec-13	ALEX122113A.SSF	584081.651	43337
722247.537	4294309.692	5065	21-Dec-13	ALEX122113A.SSF	584082.527	43338
722247.565	4294309.645	5099	21-Dec-13	ALEX122113A.SSF	584083.657	43339
722247.595	4294309.614	5080	21-Dec-13	ALEX122113A.SSF	584084.611	43340
722247.643	4294309.589	5347	21-Dec-13	ALEX122113A.SSF	584085.727	43341
722247.674	4294309.579	5378	21-Dec-13	ALEX122113A.SSF	584086.594	43342
722247.692	4294309.562	5462	21-Dec-13	ALEX122113A.SSF	584087.678	43343
722247.715	4294309.547	5180	21-Dec-13	ALEX122113A.SSF	584088.667	43344
722247.725	4294309.499	5148	21-Dec-13	ALEX122113A.SSF	584089.706	43345
722247.753	4294309.458	4973	21-Dec-13	ALEX122113A.SSF	584090.578	43346
722247.811	4294309.418	4777	21-Dec-13	ALEX122113A.SSF	584091.639	43347
722247.855	4294309.38	4922	21-Dec-13	ALEX122113A.SSF	584092.564	43348
722247.891	4294309.338	5079	21-Dec-13	ALEX122113A.SSF	584093.638	43349
722247.908	4294309.308	5212	21-Dec-13	ALEX122113A.SSF	584094.573	43350
722247.921	4294309.292	5526	21-Dec-13	ALEX122113A.SSF	584095.592	43351
722247.936	4294309.274	5073	21-Dec-13	ALEX122113A.SSF	584096.577	43352
722247.953	4294309.238	4796	21-Dec-13	ALEX122113A.SSF	584097.618	43353
721974.297	4294310.741	7104	21-Dec-13	ALEX122113B.SSF	584774.44	43354
721974.299	4294310.743	6966	21-Dec-13	ALEX122113B.SSF	584775.409	43355
721974.3	4294310.749	7771	21-Dec-13	ALEX122113B.SSF	584776.263	43356
721974.299	4294310.757	7942	21-Dec-13	ALEX122113B.SSF	584777.432	43357
721974.301	4294310.758	6785	21-Dec-13	ALEX122113B.SSF	584778.315	43358
721974.303	4294310.757	7726	21-Dec-13	ALEX122113B.SSF	584779.343	43359
721974.303	4294310.752	6521	21-Dec-13	ALEX122113B.SSF	584780.273	43360
721974.299	4294310.772	6240	21-Dec-13	ALEX122113B.SSF	584781.371	43361
721974.295	4294310.779	6810	21-Dec-13	ALEX122113B.SSF	584782.378	43362
721974.292	4294310.777	5842	21-Dec-13	ALEX122113B.SSF	584783.395	43363
721974.287	4294310.774	5866	21-Dec-13	ALEX122113B.SSF	584784.367	43364
721974.282	4294310.778	6045	21-Dec-13	ALEX122113B.SSF	584785.369	43365
721974.285	4294310.783	6721	21-Dec-13	ALEX122113B.SSF	584786.303	43366
721974.301	4294310.763	6285	21-Dec-13	ALEX122113B.SSF	584787.473	43367

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721974.317	4294310.738	6491	21-Dec-13	ALEX122113B.SSF	584788.426	43368
721974.334	4294310.718	6693	21-Dec-13	ALEX122113B.SSF	584789.38	43369
721974.343	4294310.708	6713	21-Dec-13	ALEX122113B.SSF	584790.217	43370
721974.345	4294310.701	7468	21-Dec-13	ALEX122113B.SSF	584791.258	43371
721974.342	4294310.703	6937	21-Dec-13	ALEX122113B.SSF	584792.606	43372
721974.303	4294310.655	6774	21-Dec-13	ALEX122113B.SSF	584793.269	43373
721974.155	4294310.468	6823	21-Dec-13	ALEX122113B.SSF	584794.208	43374
721973.984	4294310.075	6986	21-Dec-13	ALEX122113B.SSF	584795.343	43375
721974.024	4294309.595	7416	21-Dec-13	ALEX122113B.SSF	584796.355	43376
721974.053	4294309.318	8274	21-Dec-13	ALEX122113B.SSF	584797.479	43377
721974.036	4294309.328	8818	21-Dec-13	ALEX122113B.SSF	584798.341	43378
721974.081	4294309.332	9104	21-Dec-13	ALEX122113B.SSF	584799.331	43379
721974.088	4294309.239	8366	21-Dec-13	ALEX122113B.SSF	584800.324	43380
721974.057	4294309.14	9921	21-Dec-13	ALEX122113B.SSF	584801.443	43381
721974.12	4294309.11	9530	21-Dec-13	ALEX122113B.SSF	584802.308	43382
721974.133	4294309.104	10182	21-Dec-13	ALEX122113B.SSF	584803.348	43383
721973.915	4294309.132	8065	21-Dec-13	ALEX122113B.SSF	584804.369	43384
721973.669	4294309.164	10386	21-Dec-13	ALEX122113B.SSF	584805.456	43385
721973.553	4294309.221	10126	21-Dec-13	ALEX122113B.SSF	584806.25	43386
721973.494	4294309.33	10511	21-Dec-13	ALEX122113B.SSF	584807.368	43387
721973.604	4294309.428	10518	21-Dec-13	ALEX122113B.SSF	584808.252	43388
721973.907	4294309.513	10009	21-Dec-13	ALEX122113B.SSF	584809.356	43389
721974.02	4294309.468	9252	21-Dec-13	ALEX122113B.SSF	584810.329	43390
721973.882	4294309.356	9993	21-Dec-13	ALEX122113B.SSF	584811.404	43391
721973.67	4294309.163	10208	21-Dec-13	ALEX122113B.SSF	584812.333	43392
721973.371	4294309.089	9782	21-Dec-13	ALEX122113B.SSF	584813.407	43393
721973.019	4294309.455	9195	21-Dec-13	ALEX122113B.SSF	584814.333	43394
721972.377	4294310.063	7728	21-Dec-13	ALEX122113B.SSF	584815.429	43395
721971.55	4294310.467	9192	21-Dec-13	ALEX122113B.SSF	584816.337	43396
721970.182	4294310.969	9438	21-Dec-13	ALEX122113B.SSF	584817.456	43397
721969.183	4294311.432	8659	21-Dec-13	ALEX122113B.SSF	584818.352	43398
721968.213	4294311.954	9364	21-Dec-13	ALEX122113B.SSF	584819.391	43399
721967.319	4294312.329	9031	21-Dec-13	ALEX122113B.SSF	584820.277	43400
721966.164	4294312.92	10057	21-Dec-13	ALEX122113B.SSF	584821.424	43401
721965.291	4294313.471	8004	21-Dec-13	ALEX122113B.SSF	584822.344	43402
721964.405	4294314.022	7551	21-Dec-13	ALEX122113B.SSF	584823.385	43403
721963.97	4294314.546	8667	21-Dec-13	ALEX122113B.SSF	584824.287	43404
721963.982	4294315.022	9787	21-Dec-13	ALEX122113B.SSF	584825.358	43405
721964.134	4294315.153	8296	21-Dec-13	ALEX122113B.SSF	584826.335	43406
721964.281	4294315.287	10654	21-Dec-13	ALEX122113B.SSF	584827.411	43407
721964.571	4294315.598	9083	21-Dec-13	ALEX122113B.SSF	584828.368	43408
721964.853	4294315.94	9531	21-Dec-13	ALEX122113B.SSF	584829.352	43409
721965.02	4294316.266	9402	21-Dec-13	ALEX122113B.SSF	584830.278	43410
721965.345	4294316.838	9430	21-Dec-13	ALEX122113B.SSF	584831.334	43411
721965.688	4294317.419	8717	21-Dec-13	ALEX122113B.SSF	584832.305	43412
721965.999	4294317.853	9109	21-Dec-13	ALEX122113B.SSF	584833.337	43413
721966.112	4294318.08	9237	21-Dec-13	ALEX122113B.SSF	584834.302	43414

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721966.133	4294318.293	9059	21-Dec-13	ALEX122113B.SSF	584835.374	43415
721966.293	4294318.555	9645	21-Dec-13	ALEX122113B.SSF	584836.335	43416
721966.571	4294318.91	10091	21-Dec-13	ALEX122113B.SSF	584837.325	43417
721966.926	4294319.35	8132	21-Dec-13	ALEX122113B.SSF	584838.363	43418
721967.306	4294319.887	9473	21-Dec-13	ALEX122113B.SSF	584839.369	43419
721967.791	4294320.579	9748	21-Dec-13	ALEX122113B.SSF	584840.358	43420
721968.416	4294321.343	8977	21-Dec-13	ALEX122113B.SSF	584841.307	43421
721969.054	4294322.139	9054	21-Dec-13	ALEX122113B.SSF	584842.341	43422
721969.587	4294322.74	9853	21-Dec-13	ALEX122113B.SSF	584843.387	43423
721970.062	4294323.23	8823	21-Dec-13	ALEX122113B.SSF	584844.325	43424
721970.66	4294323.87	10695	21-Dec-13	ALEX122113B.SSF	584845.361	43425
721971.346	4294324.513	9033	21-Dec-13	ALEX122113B.SSF	584846.405	43426
721971.853	4294325.094	8618	21-Dec-13	ALEX122113B.SSF	584847.4	43427
721972.161	4294325.604	9864	21-Dec-13	ALEX122113B.SSF	584848.31	43428
721972.587	4294326.272	9516	21-Dec-13	ALEX122113B.SSF	584849.384	43429
721973.109	4294326.897	9309	21-Dec-13	ALEX122113B.SSF	584850.355	43430
721973.613	4294327.388	9137	21-Dec-13	ALEX122113B.SSF	584851.411	43431
721973.914	4294327.719	9604	21-Dec-13	ALEX122113B.SSF	584852.294	43432
721974.303	4294328.173	9841	21-Dec-13	ALEX122113B.SSF	584853.467	43433
721974.601	4294328.411	9780	21-Dec-13	ALEX122113B.SSF	584854.356	43434
721974.786	4294328.542	9795	21-Dec-13	ALEX122113B.SSF	584855.384	43435
721974.824	4294328.582	10308	21-Dec-13	ALEX122113B.SSF	584856.337	43436
721974.851	4294328.607	9087	21-Dec-13	ALEX122113B.SSF	584857.403	43437
721974.873	4294328.606	9142	21-Dec-13	ALEX122113B.SSF	584858.352	43438
721974.882	4294328.609	9665	21-Dec-13	ALEX122113B.SSF	584859.352	43439
721974.889	4294328.62	9676	21-Dec-13	ALEX122113B.SSF	584860.28	43440
721974.882	4294328.73	9499	21-Dec-13	ALEX122113B.SSF	584861.292	43441
721974.916	4294329.148	10084	21-Dec-13	ALEX122113B.SSF	584862.321	43442
721975.194	4294329.616	9241	21-Dec-13	ALEX122113B.SSF	584863.265	43443
721975.72	4294330.162	9780	21-Dec-13	ALEX122113B.SSF	584864.303	43444
721976.338	4294330.904	9375	21-Dec-13	ALEX122113B.SSF	584865.335	43445
721976.962	4294331.633	8613	21-Dec-13	ALEX122113B.SSF	584866.342	43446
721977.398	4294332.188	9683	21-Dec-13	ALEX122113B.SSF	584867.274	43447
721977.825	4294332.786	9291	21-Dec-13	ALEX122113B.SSF	584868.264	43448
721978.418	4294333.415	9492	21-Dec-13	ALEX122113B.SSF	584869.274	43449
721978.851	4294333.967	8913	21-Dec-13	ALEX122113B.SSF	584870.329	43450
721979.157	4294334.485	9188	21-Dec-13	ALEX122113B.SSF	584871.359	43451
721979.737	4294335.071	10607	21-Dec-13	ALEX122113B.SSF	584872.323	43452
721980.389	4294335.791	9551	21-Dec-13	ALEX122113B.SSF	584873.341	43453
721980.787	4294336.524	8898	21-Dec-13	ALEX122113B.SSF	584874.353	43454
721981.261	4294337.259	10504	21-Dec-13	ALEX122113B.SSF	584875.323	43455
721981.847	4294337.889	10366	21-Dec-13	ALEX122113B.SSF	584876.218	43456
721982.411	4294338.355	10421	21-Dec-13	ALEX122113B.SSF	584877.248	43457
721982.853	4294338.681	9745	21-Dec-13	ALEX122113B.SSF	584878.257	43458
721983.161	4294339.019	9276	21-Dec-13	ALEX122113B.SSF	584879.267	43459
721983.304	4294339.307	9669	21-Dec-13	ALEX122113B.SSF	584880.325	43460
721983.369	4294339.417	9527	21-Dec-13	ALEX122113B.SSF	584881.362	43461

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721983.252	4294339.533	9581	21-Dec-13	ALEX122113B.SSF	584882.369	43462
721982.93	4294339.924	9625	21-Dec-13	ALEX122113B.SSF	584883.406	43463
721982.758	4294340.387	9306	21-Dec-13	ALEX122113B.SSF	584884.355	43464
721982.795	4294340.688	10906	21-Dec-13	ALEX122113B.SSF	584885.379	43465
721982.806	4294340.622	8726	21-Dec-13	ALEX122113B.SSF	584886.429	43466
721982.757	4294340.483	9861	21-Dec-13	ALEX122113B.SSF	584887.354	43467
721982.708	4294340.264	9455	21-Dec-13	ALEX122113B.SSF	584888.394	43468
721982.752	4294339.874	8873	21-Dec-13	ALEX122113B.SSF	584889.441	43469
721982.845	4294339.718	10318	21-Dec-13	ALEX122113B.SSF	584890.343	43470
721982.835	4294339.798	9239	21-Dec-13	ALEX122113B.SSF	584891.361	43471
721982.767	4294339.85	9120	21-Dec-13	ALEX122113B.SSF	584892.306	43472
721982.805	4294339.815	9690	21-Dec-13	ALEX122113B.SSF	584893.317	43473
721982.881	4294339.706	9772	21-Dec-13	ALEX122113B.SSF	584894.326	43474
721982.855	4294339.646	9013	21-Dec-13	ALEX122113B.SSF	584895.33	43475
721982.803	4294339.648	8493	21-Dec-13	ALEX122113B.SSF	584896.309	43476
721982.829	4294339.657	8543	21-Dec-13	ALEX122113B.SSF	584897.333	43477
721982.903	4294339.663	9455	21-Dec-13	ALEX122113B.SSF	584898.287	43478
721982.958	4294339.662	9114	21-Dec-13	ALEX122113B.SSF	584899.292	43479
721982.969	4294339.66	10078	21-Dec-13	ALEX122113B.SSF	584900.336	43480
721982.936	4294339.657	8969	21-Dec-13	ALEX122113B.SSF	584901.362	43481
721982.892	4294339.658	8782	21-Dec-13	ALEX122113B.SSF	584902.324	43482
721982.859	4294339.651	8435	21-Dec-13	ALEX122113B.SSF	584903.334	43483
721982.854	4294339.641	8318	21-Dec-13	ALEX122113B.SSF	584904.34	43484
721982.868	4294339.634	8769	21-Dec-13	ALEX122113B.SSF	584905.329	43485
721982.912	4294339.625	9242	21-Dec-13	ALEX122113B.SSF	584906.266	43486
721982.974	4294339.601	9000	21-Dec-13	ALEX122113B.SSF	584907.311	43487
721982.998	4294339.583	8700	21-Dec-13	ALEX122113B.SSF	584908.249	43488
721983.011	4294339.607	8595	21-Dec-13	ALEX122113B.SSF	584909.336	43489
721983.085	4294339.644	8658	21-Dec-13	ALEX122113B.SSF	584910.338	43490
721983.114	4294339.641	9304	21-Dec-13	ALEX122113B.SSF	584911.356	43491
721983.11	4294339.601	9286	21-Dec-13	ALEX122113B.SSF	584912.372	43492
721983.103	4294339.574	9881	21-Dec-13	ALEX122113B.SSF	584913.386	43493
721983.074	4294339.559	8260	21-Dec-13	ALEX122113B.SSF	584914.311	43494
721983.04	4294339.543	8095	21-Dec-13	ALEX122113B.SSF	584915.329	43495
721982.97	4294339.457	9853	21-Dec-13	ALEX122113B.SSF	584916.328	43496
721982.744	4294339.164	9963	21-Dec-13	ALEX122113B.SSF	584917.38	43497
721982.44	4294338.738	9360	21-Dec-13	ALEX122113B.SSF	584918.292	43498
721981.98	4294338.287	9750	21-Dec-13	ALEX122113B.SSF	584919.297	43499
721981.527	4294337.926	9277	21-Dec-13	ALEX122113B.SSF	584920.321	43500
721981.143	4294337.444	9309	21-Dec-13	ALEX122113B.SSF	584921.321	43501
721980.634	4294336.877	10307	21-Dec-13	ALEX122113B.SSF	584922.352	43502
721980.043	4294336.243	9446	21-Dec-13	ALEX122113B.SSF	584923.425	43503
721979.636	4294335.694	9111	21-Dec-13	ALEX122113B.SSF	584924.32	43504
721979.248	4294335.201	9028	21-Dec-13	ALEX122113B.SSF	584925.324	43505
721978.776	4294334.74	9547	21-Dec-13	ALEX122113B.SSF	584926.28	43506
721978.087	4294334.053	9826	21-Dec-13	ALEX122113B.SSF	584927.384	43507
721977.536	4294333.45	9596	21-Dec-13	ALEX122113B.SSF	584928.316	43508

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721976.979	4294332.807	10169	21-Dec-13	ALEX122113B.SSF	584929.305	43509
721976.48	4294332.149	8182	21-Dec-13	ALEX122113B.SSF	584930.253	43510
721975.974	4294331.481	9275	21-Dec-13	ALEX122113B.SSF	584931.377	43511
721975.554	4294330.946	9128	21-Dec-13	ALEX122113B.SSF	584932.292	43512
721974.964	4294330.16	9902	21-Dec-13	ALEX122113B.SSF	584933.389	43513
721974.432	4294329.528	9405	21-Dec-13	ALEX122113B.SSF	584934.331	43514
721973.858	4294328.858	9581	21-Dec-13	ALEX122113B.SSF	584935.336	43515
721973.298	4294328.042	9925	21-Dec-13	ALEX122113B.SSF	584936.35	43516
721972.784	4294327.233	9561	21-Dec-13	ALEX122113B.SSF	584937.39	43517
721972.293	4294326.563	9590	21-Dec-13	ALEX122113B.SSF	584938.289	43518
721971.748	4294325.801	10287	21-Dec-13	ALEX122113B.SSF	584939.296	43519
721971.293	4294325.071	9322	21-Dec-13	ALEX122113B.SSF	584940.322	43520
721970.708	4294324.341	9620	21-Dec-13	ALEX122113B.SSF	584941.352	43521
721970.165	4294323.657	9845	21-Dec-13	ALEX122113B.SSF	584942.287	43522
721969.691	4294322.797	9751	21-Dec-13	ALEX122113B.SSF	584943.373	43523
721969.261	4294322.124	9787	21-Dec-13	ALEX122113B.SSF	584944.295	43524
721968.779	4294321.38	9317	21-Dec-13	ALEX122113B.SSF	584945.324	43525
721968.251	4294320.489	9499	21-Dec-13	ALEX122113B.SSF	584946.342	43526
721967.683	4294319.65	9304	21-Dec-13	ALEX122113B.SSF	584947.349	43527
721967.217	4294318.914	9196	21-Dec-13	ALEX122113B.SSF	584948.386	43528
721966.774	4294318.139	8389	21-Dec-13	ALEX122113B.SSF	584949.402	43529
721966.214	4294317.404	8997	21-Dec-13	ALEX122113B.SSF	584950.346	43530
721965.523	4294316.617	9419	21-Dec-13	ALEX122113B.SSF	584951.372	43531
721964.96	4294315.809	9885	21-Dec-13	ALEX122113B.SSF	584952.434	43532
721964.577	4294315.174	8801	21-Dec-13	ALEX122113B.SSF	584953.377	43533
721964.152	4294314.533	8470	21-Dec-13	ALEX122113B.SSF	584954.328	43534
721963.683	4294313.767	9257	21-Dec-13	ALEX122113B.SSF	584955.347	43535
721963.312	4294313.125	8614	21-Dec-13	ALEX122113B.SSF	584956.241	43536
721962.766	4294312.357	8753	21-Dec-13	ALEX122113B.SSF	584957.322	43537
721962.279	4294311.703	8998	21-Dec-13	ALEX122113B.SSF	584958.234	43538
721961.779	4294310.953	8429	21-Dec-13	ALEX122113B.SSF	584959.336	43539
721961.294	4294310.263	8587	21-Dec-13	ALEX122113B.SSF	584960.24	43540
721960.679	4294309.346	8656	21-Dec-13	ALEX122113B.SSF	584961.335	43541
721960.232	4294308.624	8734	21-Dec-13	ALEX122113B.SSF	584962.249	43542
721959.63	4294307.844	9323	21-Dec-13	ALEX122113B.SSF	584963.348	43543
721959.131	4294307.217	9501	21-Dec-13	ALEX122113B.SSF	584964.275	43544
721958.664	4294306.429	8435	21-Dec-13	ALEX122113B.SSF	584965.348	43545
721958.308	4294305.901	9098	21-Dec-13	ALEX122113B.SSF	584966.234	43546
721958.144	4294306.003	8244	21-Dec-13	ALEX122113B.SSF	584967.372	43547
721958.234	4294306.201	8931	21-Dec-13	ALEX122113B.SSF	584968.262	43548
721958.184	4294305.883	8292	21-Dec-13	ALEX122113B.SSF	584969.341	43549
721957.844	4294305.295	8493	21-Dec-13	ALEX122113B.SSF	584970.237	43550
721957.215	4294304.431	8543	21-Dec-13	ALEX122113B.SSF	584971.307	43551
721956.742	4294303.662	8525	21-Dec-13	ALEX122113B.SSF	584972.242	43552
721956.346	4294302.73	8371	21-Dec-13	ALEX122113B.SSF	584973.32	43553
721955.943	4294301.987	8602	21-Dec-13	ALEX122113B.SSF	584974.238	43554
721955.504	4294301.249	8270	21-Dec-13	ALEX122113B.SSF	584975.326	43555

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721955.205	4294300.501	8637	21-Dec-13	ALEX122113B.SSF	584976.279	43556
721954.777	4294299.648	9659	21-Dec-13	ALEX122113B.SSF	584977.289	43557
721954.232	4294298.91	8715	21-Dec-13	ALEX122113B.SSF	584978.288	43558
721953.612	4294298.278	7548	21-Dec-13	ALEX122113B.SSF	584979.296	43559
721952.977	4294297.904	7947	21-Dec-13	ALEX122113B.SSF	584980.25	43560
721952.607	4294297.649	7176	21-Dec-13	ALEX122113B.SSF	584981.336	43561
721952.41	4294297.517	6654	21-Dec-13	ALEX122113B.SSF	584982.308	43562
721951.727	4294297.468	6943	21-Dec-13	ALEX122113B.SSF	584983.339	43563
721950.697	4294297.245	7166	21-Dec-13	ALEX122113B.SSF	584984.314	43564
721950.019	4294296.683	5691	21-Dec-13	ALEX122113B.SSF	584985.354	43565
721950.079	4294296.256	5618	21-Dec-13	ALEX122113B.SSF	584986.244	43566
721950.624	4294296.075	5833	21-Dec-13	ALEX122113B.SSF	584987.277	43567
721950.97	4294295.701	5382	21-Dec-13	ALEX122113B.SSF	584988.232	43568
721950.735	4294294.971	5990	21-Dec-13	ALEX122113B.SSF	584989.252	43569
721950.347	4294294.279	6521	21-Dec-13	ALEX122113B.SSF	584990.306	43570
721950.007	4294293.708	5910	21-Dec-13	ALEX122113B.SSF	584991.305	43571
721949.527	4294293.122	5499	21-Dec-13	ALEX122113B.SSF	584992.302	43572
721949.025	4294292.459	5523	21-Dec-13	ALEX122113B.SSF	584993.304	43573
721948.745	4294291.795	5244	21-Dec-13	ALEX122113B.SSF	584994.306	43574
721948.466	4294291.144	5552	21-Dec-13	ALEX122113B.SSF	584995.31	43575
721948.119	4294290.504	5696	21-Dec-13	ALEX122113B.SSF	584996.305	43576
721947.623	4294289.736	5476	21-Dec-13	ALEX122113B.SSF	584997.369	43577
721947.105	4294288.988	5480	21-Dec-13	ALEX122113B.SSF	584998.315	43578
721946.636	4294288.166	5647	21-Dec-13	ALEX122113B.SSF	584999.343	43579
721946.19	4294287.333	6199	21-Dec-13	ALEX122113B.SSF	585000.323	43580
721945.704	4294286.489	6079	21-Dec-13	ALEX122113B.SSF	585001.35	43581
721945.298	4294285.795	5690	21-Dec-13	ALEX122113B.SSF	585002.276	43582
721944.671	4294285.188	5608	21-Dec-13	ALEX122113B.SSF	585003.329	43583
721944.03	4294285.126	6228	21-Dec-13	ALEX122113B.SSF	585004.26	43584
721943.646	4294285.615	6070	21-Dec-13	ALEX122113B.SSF	585005.34	43585
721943.572	4294286.026	5621	21-Dec-13	ALEX122113B.SSF	585006.18	43586
721943.488	4294286.217	5892	21-Dec-13	ALEX122113B.SSF	585007.28	43587
721943.426	4294286.309	5924	21-Dec-13	ALEX122113B.SSF	585008.286	43588
721943.367	4294286.561	5537	21-Dec-13	ALEX122113B.SSF	585009.308	43589
721943.515	4294286.966	5432	21-Dec-13	ALEX122113B.SSF	585010.254	43590
721943.848	4294287.356	5005	21-Dec-13	ALEX122113B.SSF	585011.334	43591
721943.92	4294287.296	5298	21-Dec-13	ALEX122113B.SSF	585012.271	43592
721943.879	4294287.146	5095	21-Dec-13	ALEX122113B.SSF	585013.301	43593
721943.892	4294287.161	5603	21-Dec-13	ALEX122113B.SSF	585014.232	43594
721943.915	4294287.228	5612	21-Dec-13	ALEX122113B.SSF	585015.342	43595
721943.911	4294287.306	5976	21-Dec-13	ALEX122113B.SSF	585016.238	43596
721943.943	4294287.378	5799	21-Dec-13	ALEX122113B.SSF	585017.329	43597
721943.985	4294287.4	5654	21-Dec-13	ALEX122113B.SSF	585018.243	43598
721943.999	4294287.427	5783	21-Dec-13	ALEX122113B.SSF	585019.335	43599
721943.979	4294287.549	5983	21-Dec-13	ALEX122113B.SSF	585020.303	43600
721944.062	4294287.879	5678	21-Dec-13	ALEX122113B.SSF	585021.394	43601
721944.36	4294288.326	5504	21-Dec-13	ALEX122113B.SSF	585022.299	43602

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721944.733	4294288.996	5353	21-Dec-13	ALEX122113B.SSF	585023.323	43603
721944.95	4294289.583	5636	21-Dec-13	ALEX122113B.SSF	585024.362	43604
721945.239	4294289.961	5810	21-Dec-13	ALEX122113B.SSF	585025.344	43605
721945.555	4294290.101	5780	21-Dec-13	ALEX122113B.SSF	585026.283	43606
721945.653	4294290.03	5812	21-Dec-13	ALEX122113B.SSF	585027.335	43607
721945.623	4294289.988	5692	21-Dec-13	ALEX122113B.SSF	585028.257	43608
721945.525	4294290.096	6112	21-Dec-13	ALEX122113B.SSF	585029.374	43609
721945.453	4294290.439	5998	21-Dec-13	ALEX122113B.SSF	585030.283	43610
721945.659	4294291.011	6081	21-Dec-13	ALEX122113B.SSF	585031.334	43611
721946.045	4294291.586	5750	21-Dec-13	ALEX122113B.SSF	585032.242	43612
721946.513	4294292.248	7076	21-Dec-13	ALEX122113B.SSF	585033.253	43613
721946.903	4294292.752	6119	21-Dec-13	ALEX122113B.SSF	585034.262	43614
721947.343	4294293.005	5220	21-Dec-13	ALEX122113B.SSF	585035.33	43615
721947.651	4294293.155	6048	21-Dec-13	ALEX122113B.SSF	585036.279	43616
721947.685	4294293.347	6049	21-Dec-13	ALEX122113B.SSF	585037.298	43617
721947.704	4294293.642	5945	21-Dec-13	ALEX122113B.SSF	585038.24	43618
721947.96	4294294.15	6009	21-Dec-13	ALEX122113B.SSF	585039.273	43619
721948.309	4294294.778	6723	21-Dec-13	ALEX122113B.SSF	585040.329	43620
721948.691	4294295.308	6180	21-Dec-13	ALEX122113B.SSF	585041.344	43621
721949.081	4294295.715	7125	21-Dec-13	ALEX122113B.SSF	585042.274	43622
721949.511	4294296.235	6701	21-Dec-13	ALEX122113B.SSF	585043.346	43623
721949.9	4294296.749	6535	21-Dec-13	ALEX122113B.SSF	585044.284	43624
721950.333	4294297.283	6014	21-Dec-13	ALEX122113B.SSF	585045.337	43625
721950.676	4294297.67	6060	21-Dec-13	ALEX122113B.SSF	585046.273	43626
721951.058	4294298.053	6435	21-Dec-13	ALEX122113B.SSF	585047.309	43627
721951.369	4294298.511	6678	21-Dec-13	ALEX122113B.SSF	585048.287	43628
721951.584	4294299.088	6469	21-Dec-13	ALEX122113B.SSF	585049.294	43629
721951.849	4294299.606	7317	21-Dec-13	ALEX122113B.SSF	585050.17	43630
721952.329	4294300.166	7349	21-Dec-13	ALEX122113B.SSF	585051.321	43631
721952.603	4294300.486	7267	21-Dec-13	ALEX122113B.SSF	585052.195	43632
721952.838	4294301	6526	21-Dec-13	ALEX122113B.SSF	585053.32	43633
721953.261	4294301.666	6287	21-Dec-13	ALEX122113B.SSF	585054.268	43634
721953.882	4294302.645	7121	21-Dec-13	ALEX122113B.SSF	585055.341	43635
721954.327	4294303.417	6550	21-Dec-13	ALEX122113B.SSF	585056.257	43636
721954.738	4294304.163	6947	21-Dec-13	ALEX122113B.SSF	585057.391	43637
721955.108	4294304.747	7706	21-Dec-13	ALEX122113B.SSF	585058.296	43638
721955.587	4294305.458	7116	21-Dec-13	ALEX122113B.SSF	585059.29	43639
721955.913	4294306.059	7989	21-Dec-13	ALEX122113B.SSF	585060.136	43640
721956.381	4294306.804	8627	21-Dec-13	ALEX122113B.SSF	585061.25	43641
721956.819	4294307.468	8216	21-Dec-13	ALEX122113B.SSF	585062.238	43642
721957.173	4294308.194	8174	21-Dec-13	ALEX122113B.SSF	585063.265	43643
721957.54	4294308.899	8343	21-Dec-13	ALEX122113B.SSF	585064.217	43644
721958.069	4294309.634	8385	21-Dec-13	ALEX122113B.SSF	585065.251	43645
721958.639	4294310.29	9566	21-Dec-13	ALEX122113B.SSF	585066.209	43646
721959.159	4294311.08	7611	21-Dec-13	ALEX122113B.SSF	585067.308	43647
721959.623	4294311.766	7363	21-Dec-13	ALEX122113B.SSF	585068.292	43648
721960.206	4294312.417	8470	21-Dec-13	ALEX122113B.SSF	585069.258	43649

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721960.773	4294313.103	8387	21-Dec-13	ALEX122113B.SSF	585070.258	43650
721961.144	4294313.822	8246	21-Dec-13	ALEX122113B.SSF	585071.382	43651
721961.434	4294314.31	7491	21-Dec-13	ALEX122113B.SSF	585072.223	43652
721961.833	4294314.93	8803	21-Dec-13	ALEX122113B.SSF	585073.318	43653
721962.16	4294315.535	8230	21-Dec-13	ALEX122113B.SSF	585074.234	43654
721962.613	4294316.289	9197	21-Dec-13	ALEX122113B.SSF	585075.329	43655
721963.025	4294316.905	9469	21-Dec-13	ALEX122113B.SSF	585076.245	43656
721963.539	4294317.719	8727	21-Dec-13	ALEX122113B.SSF	585077.342	43657
721963.915	4294318.341	8632	21-Dec-13	ALEX122113B.SSF	585078.24	43658
721964.507	4294319.094	8218	21-Dec-13	ALEX122113B.SSF	585079.342	43659
721965.022	4294319.783	8444	21-Dec-13	ALEX122113B.SSF	585080.234	43660
721965.573	4294320.58	8831	21-Dec-13	ALEX122113B.SSF	585081.345	43661
721966.137	4294321.25	8207	21-Dec-13	ALEX122113B.SSF	585082.282	43662
721966.689	4294321.944	8021	21-Dec-13	ALEX122113B.SSF	585083.305	43663
721967.056	4294322.527	9205	21-Dec-13	ALEX122113B.SSF	585084.231	43664
721967.651	4294323.283	9201	21-Dec-13	ALEX122113B.SSF	585085.335	43665
721968.17	4294323.928	9320	21-Dec-13	ALEX122113B.SSF	585086.263	43666
721968.705	4294324.662	8090	21-Dec-13	ALEX122113B.SSF	585087.375	43667
721969.212	4294325.265	9102	21-Dec-13	ALEX122113B.SSF	585088.216	43668
721969.853	4294326.118	8905	21-Dec-13	ALEX122113B.SSF	585089.337	43669
721970.266	4294326.799	9876	21-Dec-13	ALEX122113B.SSF	585090.272	43670
721970.844	4294327.589	9069	21-Dec-13	ALEX122113B.SSF	585091.313	43671
721971.349	4294328.285	9917	21-Dec-13	ALEX122113B.SSF	585092.277	43672
721971.846	4294329.008	9739	21-Dec-13	ALEX122113B.SSF	585093.388	43673
721972.371	4294329.545	10084	21-Dec-13	ALEX122113B.SSF	585094.229	43674
721973.032	4294330.204	9541	21-Dec-13	ALEX122113B.SSF	585095.339	43675
721973.462	4294330.742	9495	21-Dec-13	ALEX122113B.SSF	585096.236	43676
721974.157	4294331.525	9963	21-Dec-13	ALEX122113B.SSF	585097.325	43677
721974.776	4294332.262	9301	21-Dec-13	ALEX122113B.SSF	585098.291	43678
721975.252	4294332.914	9405	21-Dec-13	ALEX122113B.SSF	585099.301	43679
721975.804	4294333.575	8321	21-Dec-13	ALEX122113B.SSF	585100.264	43680
721976.551	4294334.451	9310	21-Dec-13	ALEX122113B.SSF	585101.349	43681
721977.154	4294335.12	9287	21-Dec-13	ALEX122113B.SSF	585102.332	43682
721977.803	4294335.774	9551	21-Dec-13	ALEX122113B.SSF	585103.35	43683
721978.428	4294336.474	9798	21-Dec-13	ALEX122113B.SSF	585104.298	43684
721978.952	4294337.176	8779	21-Dec-13	ALEX122113B.SSF	585105.345	43685
721979.41	4294337.758	8944	21-Dec-13	ALEX122113B.SSF	585106.291	43686
721980.058	4294338.44	9526	21-Dec-13	ALEX122113B.SSF	585107.31	43687
721980.619	4294339.002	11051	21-Dec-13	ALEX122113B.SSF	585108.278	43688
721981.11	4294339.507	12213	21-Dec-13	ALEX122113B.SSF	585109.372	43689
721981.429	4294339.795	10463	21-Dec-13	ALEX122113B.SSF	585110.303	43690
721981.422	4294339.708	10595	21-Dec-13	ALEX122113B.SSF	585111.262	43691
721981.086	4294339.371	10629	21-Dec-13	ALEX122113B.SSF	585112.296	43692
721980.902	4294339.123	11507	21-Dec-13	ALEX122113B.SSF	585113.295	43693
721980.862	4294338.987	10226	21-Dec-13	ALEX122113B.SSF	585114.254	43694
721980.931	4294338.86	9246	21-Dec-13	ALEX122113B.SSF	585115.245	43695
721980.953	4294338.9	10261	21-Dec-13	ALEX122113B.SSF	585116.184	43696

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721981.035	4294339.182	9945	21-Dec-13	ALEX122113B.SSF	585117.277	43697
721981.261	4294339.465	10226	21-Dec-13	ALEX122113B.SSF	585118.226	43698
721981.663	4294339.813	9726	21-Dec-13	ALEX122113B.SSF	585119.225	43699
721982.059	4294340.218	9451	21-Dec-13	ALEX122113B.SSF	585120.253	43700
721982.213	4294340.491	9832	21-Dec-13	ALEX122113B.SSF	585121.238	43701
721982.219	4294340.719	9148	21-Dec-13	ALEX122113B.SSF	585122.174	43702
721982.101	4294341.02	9337	21-Dec-13	ALEX122113B.SSF	585123.272	43703
721982.191	4294341.222	10824	21-Dec-13	ALEX122113B.SSF	585124.227	43704
721982.576	4294341.132	9876	21-Dec-13	ALEX122113B.SSF	585125.28	43705
721982.705	4294340.942	9939	21-Dec-13	ALEX122113B.SSF	585126.192	43706
721982.693	4294341.015	10854	21-Dec-13	ALEX122113B.SSF	585127.274	43707
721982.535	4294341.298	11053	21-Dec-13	ALEX122113B.SSF	585128.228	43708
721982.368	4294341.591	11523	21-Dec-13	ALEX122113B.SSF	585129.204	43709
721982.362	4294341.741	11400	21-Dec-13	ALEX122113B.SSF	585130.246	43710
721982.444	4294341.73	10260	21-Dec-13	ALEX122113B.SSF	585131.291	43711
721982.397	4294341.648	10965	21-Dec-13	ALEX122113B.SSF	585132.26	43712
721982.265	4294341.588	9371	21-Dec-13	ALEX122113B.SSF	585133.368	43713
721982.174	4294341.592	10173	21-Dec-13	ALEX122113B.SSF	585134.235	43714
721982.076	4294341.619	10463	21-Dec-13	ALEX122113B.SSF	585135.34	43715
721982.069	4294341.624	9485	21-Dec-13	ALEX122113B.SSF	585136.279	43716
721982.094	4294341.557	9631	21-Dec-13	ALEX122113B.SSF	585137.31	43717
721982.093	4294341.381	9997	21-Dec-13	ALEX122113B.SSF	585138.263	43718
721981.894	4294341.028	9579	21-Dec-13	ALEX122113B.SSF	585139.293	43719
721981.401	4294340.559	8305	21-Dec-13	ALEX122113B.SSF	585140.194	43720
721980.691	4294339.926	9126	21-Dec-13	ALEX122113B.SSF	585141.292	43721
721980.215	4294339.37	9781	21-Dec-13	ALEX122113B.SSF	585142.255	43722
721979.782	4294338.793	10335	21-Dec-13	ALEX122113B.SSF	585143.363	43723
721979.373	4294338.321	10263	21-Dec-13	ALEX122113B.SSF	585144.315	43724
721978.882	4294337.715	9376	21-Dec-13	ALEX122113B.SSF	585145.274	43725
721978.371	4294337.042	8944	21-Dec-13	ALEX122113B.SSF	585146.311	43726
721977.842	4294336.439	8926	21-Dec-13	ALEX122113B.SSF	585147.36	43727
721977.323	4294335.924	8501	21-Dec-13	ALEX122113B.SSF	585148.267	43728
721976.758	4294335.396	9925	21-Dec-13	ALEX122113B.SSF	585149.354	43729
721976.417	4294335.036	9591	21-Dec-13	ALEX122113B.SSF	585150.185	43730
721976.044	4294334.477	8367	21-Dec-13	ALEX122113B.SSF	585151.264	43731
721975.708	4294333.879	9232	21-Dec-13	ALEX122113B.SSF	585152.201	43732
721975.199	4294333.21	9118	21-Dec-13	ALEX122113B.SSF	585153.279	43733
721974.887	4294332.878	8429	21-Dec-13	ALEX122113B.SSF	585154.182	43734
721974.801	4294332.827	8707	21-Dec-13	ALEX122113B.SSF	585155.25	43735
721974.798	4294332.84	10276	21-Dec-13	ALEX122113B.SSF	585156.123	43736
721974.806	4294332.839	9799	21-Dec-13	ALEX122113B.SSF	585157.24	43737
721974.858	4294332.787	8659	21-Dec-13	ALEX122113B.SSF	585158.309	43738
721974.991	4294332.527	8855	21-Dec-13	ALEX122113B.SSF	585159.28	43739
721974.9	4294332.03	9143	21-Dec-13	ALEX122113B.SSF	585160.237	43740
721974.379	4294331.478	9606	21-Dec-13	ALEX122113B.SSF	585161.227	43741
721973.825	4294330.993	9151	21-Dec-13	ALEX122113B.SSF	585162.21	43742
721973.289	4294330.293	9877	21-Dec-13	ALEX122113B.SSF	585163.267	43743

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721972.758	4294329.659	9699	21-Dec-13	ALEX122113B.SSF	585164.154	43744
721972.087	4294328.885	9775	21-Dec-13	ALEX122113B.SSF	585165.326	43745
721971.678	4294328.291	8353	21-Dec-13	ALEX122113B.SSF	585166.203	43746
721971.143	4294327.568	8328	21-Dec-13	ALEX122113B.SSF	585167.383	43747
721970.733	4294327.075	9492	21-Dec-13	ALEX122113B.SSF	585168.255	43748
721970.275	4294326.407	8763	21-Dec-13	ALEX122113B.SSF	585169.353	43749
721970.013	4294325.944	8640	21-Dec-13	ALEX122113B.SSF	585170.216	43750
721969.611	4294325.31	9660	21-Dec-13	ALEX122113B.SSF	585171.334	43751
721969.122	4294324.629	8955	21-Dec-13	ALEX122113B.SSF	585172.3	43752
721968.555	4294323.95	10368	21-Dec-13	ALEX122113B.SSF	585173.35	43753
721968.127	4294323.479	9132	21-Dec-13	ALEX122113B.SSF	585174.269	43754
721967.629	4294322.792	8883	21-Dec-13	ALEX122113B.SSF	585175.374	43755
721967.091	4294322.015	8040	21-Dec-13	ALEX122113B.SSF	585176.319	43756
721966.586	4294321.217	9060	21-Dec-13	ALEX122113B.SSF	585177.337	43757
721966.249	4294320.65	8025	21-Dec-13	ALEX122113B.SSF	585178.282	43758
721965.785	4294320.043	8726	21-Dec-13	ALEX122113B.SSF	585179.295	43759
721965.281	4294319.381	8631	21-Dec-13	ALEX122113B.SSF	585180.266	43760
721964.792	4294318.715	8938	21-Dec-13	ALEX122113B.SSF	585181.349	43761
721964.35	4294318.118	8594	21-Dec-13	ALEX122113B.SSF	585182.288	43762
721963.947	4294317.387	8298	21-Dec-13	ALEX122113B.SSF	585183.308	43763
721963.681	4294316.859	8734	21-Dec-13	ALEX122113B.SSF	585184.315	43764
721963.518	4294316.722	8693	21-Dec-13	ALEX122113B.SSF	585185.082	43765
721963.419	4294316.743	8023	21-Dec-13	ALEX122113B.SSF	585186.11	43766
721963.41	4294316.659	8726	21-Dec-13	ALEX122113B.SSF	585187.141	43767
721963.341	4294316.543	8151	21-Dec-13	ALEX122113B.SSF	585188.088	43768
721962.958	4294316.145	9027	21-Dec-13	ALEX122113B.SSF	585189.108	43769
721962.295	4294315.417	8407	21-Dec-13	ALEX122113B.SSF	585190.208	43770
721961.853	4294314.726	7951	21-Dec-13	ALEX122113B.SSF	585191.218	43771
721961.533	4294314.109	8797	21-Dec-13	ALEX122113B.SSF	585192.182	43772
721960.985	4294313.398	8349	21-Dec-13	ALEX122113B.SSF	585193.327	43773
721960.551	4294312.817	8927	21-Dec-13	ALEX122113B.SSF	585194.266	43774
721960.166	4294312.187	8561	21-Dec-13	ALEX122113B.SSF	585195.274	43775
721959.651	4294311.564	8710	21-Dec-13	ALEX122113B.SSF	585196.286	43776
721959.127	4294310.923	6857	21-Dec-13	ALEX122113B.SSF	585197.325	43777
721958.69	4294310.258	8708	21-Dec-13	ALEX122113B.SSF	585198.269	43778
721958.223	4294309.568	8573	21-Dec-13	ALEX122113B.SSF	585199.287	43779
721957.745	4294308.941	9043	21-Dec-13	ALEX122113B.SSF	585200.267	43780
721957.275	4294308.221	8561	21-Dec-13	ALEX122113B.SSF	585201.287	43781
721956.892	4294307.512	9040	21-Dec-13	ALEX122113B.SSF	585202.254	43782
721956.335	4294306.771	8860	21-Dec-13	ALEX122113B.SSF	585203.274	43783
721955.792	4294306.138	7945	21-Dec-13	ALEX122113B.SSF	585204.203	43784
721955.332	4294305.333	7086	21-Dec-13	ALEX122113B.SSF	585205.337	43785
721955.042	4294304.586	6391	21-Dec-13	ALEX122113B.SSF	585206.298	43786
721954.737	4294303.904	6157	21-Dec-13	ALEX122113B.SSF	585207.286	43787
721954.409	4294303.359	6519	21-Dec-13	ALEX122113B.SSF	585208.251	43788
721954.099	4294302.927	7720	21-Dec-13	ALEX122113B.SSF	585209.349	43789
721953.799	4294302.676	7420	21-Dec-13	ALEX122113B.SSF	585210.169	43790

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721953.194	4294302.244	6895	21-Dec-13	ALEX122113B.SSF	585211.294	43791
721952.783	4294301.667	7243	21-Dec-13	ALEX122113B.SSF	585212.219	43792
721952.364	4294300.962	6941	21-Dec-13	ALEX122113B.SSF	585213.253	43793
721951.887	4294300.179	8005	21-Dec-13	ALEX122113B.SSF	585214.246	43794
721951.349	4294299.319	5991	21-Dec-13	ALEX122113B.SSF	585215.28	43795
721950.823	4294298.661	7136	21-Dec-13	ALEX122113B.SSF	585216.221	43796
721950.225	4294298.003	6764	21-Dec-13	ALEX122113B.SSF	585217.305	43797
721949.75	4294297.473	7331	21-Dec-13	ALEX122113B.SSF	585218.266	43798
721949.348	4294296.978	9002	21-Dec-13	ALEX122113B.SSF	585219.286	43799
721949.078	4294296.486	8221	21-Dec-13	ALEX122113B.SSF	585220.186	43800
721948.896	4294295.857	6097	21-Dec-13	ALEX122113B.SSF	585221.245	43801
721948.436	4294295.317	6024	21-Dec-13	ALEX122113B.SSF	585222.161	43802
721947.589	4294294.62	6639	21-Dec-13	ALEX122113B.SSF	585223.336	43803
721947.076	4294293.984	5369	21-Dec-13	ALEX122113B.SSF	585224.288	43804
721946.669	4294293.221	5653	21-Dec-13	ALEX122113B.SSF	585225.293	43805
721946.307	4294292.575	5639	21-Dec-13	ALEX122113B.SSF	585226.257	43806
721945.799	4294291.94	5685	21-Dec-13	ALEX122113B.SSF	585227.284	43807
721945.274	4294291.353	5965	21-Dec-13	ALEX122113B.SSF	585228.22	43808
721944.698	4294290.62	5725	21-Dec-13	ALEX122113B.SSF	585229.253	43809
721944.083	4294289.926	5635	21-Dec-13	ALEX122113B.SSF	585230.282	43810
721943.447	4294289.347	5547	21-Dec-13	ALEX122113B.SSF	585231.299	43811
721942.96	4294288.806	6000	21-Dec-13	ALEX122113B.SSF	585232.27	43812
721942.503	4294288.146	5595	21-Dec-13	ALEX122113B.SSF	585233.3	43813
721942.067	4294287.651	5082	21-Dec-13	ALEX122113B.SSF	585234.217	43814
721941.534	4294287.327	5228	21-Dec-13	ALEX122113B.SSF	585235.273	43815
721940.914	4294287.148	4988	21-Dec-13	ALEX122113B.SSF	585236.247	43816
721940.13	4294287.244	4958	21-Dec-13	ALEX122113B.SSF	585237.281	43817
721939.702	4294287.612	5466	21-Dec-13	ALEX122113B.SSF	585238.08	43818
721939.799	4294288.235	5647	21-Dec-13	ALEX122113B.SSF	585239.288	43819
721940.12	4294288.534	5524	21-Dec-13	ALEX122113B.SSF	585240.262	43820
721940.394	4294288.833	5327	21-Dec-13	ALEX122113B.SSF	585241.294	43821
721940.566	4294289.105	5771	21-Dec-13	ALEX122113B.SSF	585242.119	43822
721941.085	4294289.662	5429	21-Dec-13	ALEX122113B.SSF	585243.338	43823
721941.483	4294290.153	5183	21-Dec-13	ALEX122113B.SSF	585244.153	43824
721941.858	4294290.843	5226	21-Dec-13	ALEX122113B.SSF	585245.278	43825
721942.318	4294291.431	5152	21-Dec-13	ALEX122113B.SSF	585246.27	43826
721942.856	4294292.048	5313	21-Dec-13	ALEX122113B.SSF	585247.307	43827
721943.185	4294292.52	5156	21-Dec-13	ALEX122113B.SSF	585248.073	43828
721943.797	4294293.281	4962	21-Dec-13	ALEX122113B.SSF	585249.294	43829
721944.166	4294293.75	5139	21-Dec-13	ALEX122113B.SSF	585250.068	43830
721944.774	4294294.633	5275	21-Dec-13	ALEX122113B.SSF	585251.303	43831
721945.202	4294295.124	5750	21-Dec-13	ALEX122113B.SSF	585252.115	43832
721945.915	4294295.707	5732	21-Dec-13	ALEX122113B.SSF	585253.294	43833
721946.439	4294296.275	5451	21-Dec-13	ALEX122113B.SSF	585254.201	43834
721946.815	4294296.949	5939	21-Dec-13	ALEX122113B.SSF	585255.273	43835
721947.258	4294297.619	6243	21-Dec-13	ALEX122113B.SSF	585256.216	43836
721947.773	4294298.316	6030	21-Dec-13	ALEX122113B.SSF	585257.219	43837

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721948.016	4294298.779	6041	21-Dec-13	ALEX122113B.SSF	585258.104	43838
721948.53	4294299.477	6765	21-Dec-13	ALEX122113B.SSF	585259.274	43839
721949.23	4294300.215	7031	21-Dec-13	ALEX122113B.SSF	585260.296	43840
721949.826	4294300.934	6828	21-Dec-13	ALEX122113B.SSF	585261.312	43841
721950.298	4294301.602	5967	21-Dec-13	ALEX122113B.SSF	585262.287	43842
721950.816	4294302.31	6221	21-Dec-13	ALEX122113B.SSF	585263.356	43843
721951.234	4294302.951	5573	21-Dec-13	ALEX122113B.SSF	585264.321	43844
721951.506	4294303.541	5464	21-Dec-13	ALEX122113B.SSF	585265.166	43845
721951.895	4294304.237	6246	21-Dec-13	ALEX122113B.SSF	585266.228	43846
721952.359	4294304.7	6361	21-Dec-13	ALEX122113B.SSF	585267.283	43847
721952.72	4294304.97	6450	21-Dec-13	ALEX122113B.SSF	585268.227	43848
721953.014	4294305.212	6502	21-Dec-13	ALEX122113B.SSF	585269.273	43849
721953.309	4294305.489	6665	21-Dec-13	ALEX122113B.SSF	585270.262	43850
721953.636	4294305.725	5986	21-Dec-13	ALEX122113B.SSF	585271.365	43851
721953.792	4294305.895	6319	21-Dec-13	ALEX122113B.SSF	585272.281	43852
721953.989	4294306.257	6551	21-Dec-13	ALEX122113B.SSF	585273.35	43853
721954.262	4294306.739	6287	21-Dec-13	ALEX122113B.SSF	585274.258	43854
721954.745	4294307.293	6092	21-Dec-13	ALEX122113B.SSF	585275.301	43855
721955.226	4294307.83	5989	21-Dec-13	ALEX122113B.SSF	585276.143	43856
721955.626	4294308.454	6746	21-Dec-13	ALEX122113B.SSF	585277.291	43857
721955.945	4294309.049	7746	21-Dec-13	ALEX122113B.SSF	585278.309	43858
721956.427	4294309.889	7846	21-Dec-13	ALEX122113B.SSF	585279.355	43859
721956.824	4294310.558	8591	21-Dec-13	ALEX122113B.SSF	585280.264	43860
721957.359	4294311.246	8838	21-Dec-13	ALEX122113B.SSF	585281.319	43861
721957.98	4294311.975	8419	21-Dec-13	ALEX122113B.SSF	585282.266	43862
721958.618	4294312.708	8314	21-Dec-13	ALEX122113B.SSF	585283.325	43863
721959.076	4294313.277	9338	21-Dec-13	ALEX122113B.SSF	585284.25	43864
721959.623	4294314.071	7644	21-Dec-13	ALEX122113B.SSF	585285.337	43865
721959.991	4294314.673	8571	21-Dec-13	ALEX122113B.SSF	585286.191	43866
721960.519	4294315.395	8652	21-Dec-13	ALEX122113B.SSF	585287.249	43867
721961.107	4294316.112	8763	21-Dec-13	ALEX122113B.SSF	585288.176	43868
721961.692	4294316.891	9060	21-Dec-13	ALEX122113B.SSF	585289.307	43869
721962.171	4294317.465	9525	21-Dec-13	ALEX122113B.SSF	585290.143	43870
721962.894	4294318.286	9491	21-Dec-13	ALEX122113B.SSF	585291.195	43871
721963.497	4294319.128	9363	21-Dec-13	ALEX122113B.SSF	585292.221	43872
721964.031	4294319.78	8820	21-Dec-13	ALEX122113B.SSF	585293.17	43873
721964.583	4294320.463	9315	21-Dec-13	ALEX122113B.SSF	585294.228	43874
721965.113	4294321.179	8148	21-Dec-13	ALEX122113B.SSF	585295.159	43875
721965.651	4294321.885	8607	21-Dec-13	ALEX122113B.SSF	585296.084	43876
721966.305	4294322.605	8572	21-Dec-13	ALEX122113B.SSF	585297.15	43877
721966.96	4294323.32	7933	21-Dec-13	ALEX122113B.SSF	585298.125	43878
721967.569	4294324.078	8673	21-Dec-13	ALEX122113B.SSF	585299.204	43879
721968.239	4294324.697	9308	21-Dec-13	ALEX122113B.SSF	585300.145	43880
721968.92	4294325.368	8987	21-Dec-13	ALEX122113B.SSF	585301.164	43881
721969.426	4294326.096	8606	21-Dec-13	ALEX122113B.SSF	585302.181	43882
721970.078	4294326.855	8331	21-Dec-13	ALEX122113B.SSF	585303.229	43883
721970.671	4294327.523	8713	21-Dec-13	ALEX122113B.SSF	585304.248	43884

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721971.196	4294328.257	8748	21-Dec-13	ALEX122113B.SSF	585305.266	43885
721971.634	4294328.883	9417	21-Dec-13	ALEX122113B.SSF	585306.098	43886
721972.198	4294329.658	9224	21-Dec-13	ALEX122113B.SSF	585307.218	43887
721972.79	4294330.387	9866	21-Dec-13	ALEX122113B.SSF	585308.235	43888
721973.327	4294331.016	8226	21-Dec-13	ALEX122113B.SSF	585309.268	43889
721973.816	4294331.512	10246	21-Dec-13	ALEX122113B.SSF	585310.083	43890
721974.623	4294332.375	9731	21-Dec-13	ALEX122113B.SSF	585311.248	43891
721975.075	4294332.915	9573	21-Dec-13	ALEX122113B.SSF	585312.102	43892
721975.765	4294333.658	9083	21-Dec-13	ALEX122113B.SSF	585313.26	43893
721976.34	4294334.281	9830	21-Dec-13	ALEX122113B.SSF	585314.157	43894
721976.908	4294334.814	9537	21-Dec-13	ALEX122113B.SSF	585315.273	43895
721977.294	4294335.11	9734	21-Dec-13	ALEX122113B.SSF	585316.105	43896
721977.865	4294335.642	9333	21-Dec-13	ALEX122113B.SSF	585317.32	43897
721978.21	4294335.95	8453	21-Dec-13	ALEX122113B.SSF	585318.102	43898
721978.714	4294336.346	9463	21-Dec-13	ALEX122113B.SSF	585319.255	43899
721979.124	4294336.778	8726	21-Dec-13	ALEX122113B.SSF	585320.11	43900
721979.7	4294337.332	9801	21-Dec-13	ALEX122113B.SSF	585321.141	43901
721980.178	4294337.805	10760	21-Dec-13	ALEX122113B.SSF	585322.204	43902
721980.497	4294338.224	9260	21-Dec-13	ALEX122113B.SSF	585323.206	43903
721980.828	4294338.654	9485	21-Dec-13	ALEX122113B.SSF	585324.085	43904
721981.429	4294339.331	9721	21-Dec-13	ALEX122113B.SSF	585325.194	43905
721981.888	4294339.773	10110	21-Dec-13	ALEX122113B.SSF	585326.127	43906
721982.298	4294340.152	9637	21-Dec-13	ALEX122113B.SSF	585327.172	43907
721982.497	4294340.568	9759	21-Dec-13	ALEX122113B.SSF	585328.274	43908
721982.489	4294340.738	10030	21-Dec-13	ALEX122113B.SSF	585329.167	43909
721982.453	4294340.701	8747	21-Dec-13	ALEX122113B.SSF	585330.139	43910
721982.333	4294340.788	9386	21-Dec-13	ALEX122113B.SSF	585331.342	43911
721982.237	4294341.006	9576	21-Dec-13	ALEX122113B.SSF	585332.073	43912
721982.08	4294341.487	10284	21-Dec-13	ALEX122113B.SSF	585333.293	43913
721982.001	4294341.563	9741	21-Dec-13	ALEX122113B.SSF	585334.133	43914
721982.165	4294341.548	9635	21-Dec-13	ALEX122113B.SSF	585335.261	43915
721982.198	4294341.559	9968	21-Dec-13	ALEX122113B.SSF	585336.073	43916
721981.916	4294341.368	9662	21-Dec-13	ALEX122113B.SSF	585337.152	43917
721981.609	4294341.264	9495	21-Dec-13	ALEX122113B.SSF	585338.227	43918
721981.524	4294341.256	10413	21-Dec-13	ALEX122113B.SSF	585339.281	43919
721981.534	4294341.242	10883	21-Dec-13	ALEX122113B.SSF	585340.122	43920
721981.537	4294341.224	9621	21-Dec-13	ALEX122113B.SSF	585341.222	43921
721981.519	4294341.187	9665	21-Dec-13	ALEX122113B.SSF	585342.118	43922
721981.522	4294340.993	8986	21-Dec-13	ALEX122113B.SSF	585343.123	43923
721981.148	4294340.641	10076	21-Dec-13	ALEX122113B.SSF	585344.151	43924
721980.526	4294340.145	8999	21-Dec-13	ALEX122113B.SSF	585345.277	43925
721980.184	4294339.703	9600	21-Dec-13	ALEX122113B.SSF	585346.116	43926
721979.575	4294339.142	9420	21-Dec-13	ALEX122113B.SSF	585347.28	43927
721979.095	4294338.709	10065	21-Dec-13	ALEX122113B.SSF	585348.135	43928
721978.642	4294338.099	8966	21-Dec-13	ALEX122113B.SSF	585349.176	43929
721978.125	4294337.557	8991	21-Dec-13	ALEX122113B.SSF	585350.258	43930
721977.636	4294337.062	8697	21-Dec-13	ALEX122113B.SSF	585351.285	43931

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721977.278	4294336.542	8834	21-Dec-13	ALEX122113B.SSF	585352.12	43932
721976.766	4294335.909	8838	21-Dec-13	ALEX122113B.SSF	585353.19	43933
721976.141	4294335.368	8659	21-Dec-13	ALEX122113B.SSF	585354.287	43934
721975.677	4294334.88	9664	21-Dec-13	ALEX122113B.SSF	585355.156	43935
721975.303	4294334.363	8956	21-Dec-13	ALEX122113B.SSF	585356.048	43936
721974.717	4294333.666	9529	21-Dec-13	ALEX122113B.SSF	585357.229	43937
721974.251	4294333.141	8712	21-Dec-13	ALEX122113B.SSF	585358.143	43938
721973.777	4294332.576	9468	21-Dec-13	ALEX122113B.SSF	585359.247	43939
721973.279	4294332.08	9357	21-Dec-13	ALEX122113B.SSF	585360.155	43940
721972.792	4294331.531	8369	21-Dec-13	ALEX122113B.SSF	585361.153	43941
721972.429	4294331.003	9322	21-Dec-13	ALEX122113B.SSF	585362.01	43942
721971.596	4294330.183	9170	21-Dec-13	ALEX122113B.SSF	585363.281	43943
721971.148	4294329.746	8952	21-Dec-13	ALEX122113B.SSF	585364.044	43944
721970.59	4294328.876	8838	21-Dec-13	ALEX122113B.SSF	585365.274	43945
721970.145	4294328.251	8839	21-Dec-13	ALEX122113B.SSF	585366.094	43946
721969.518	4294327.427	8569	21-Dec-13	ALEX122113B.SSF	585367.311	43947
721969.179	4294326.85	7212	21-Dec-13	ALEX122113B.SSF	585368.053	43948
721968.562	4294326.04	8073	21-Dec-13	ALEX122113B.SSF	585369.272	43949
721968.104	4294325.506	7358	21-Dec-13	ALEX122113B.SSF	585370.168	43950
721967.613	4294324.734	9249	21-Dec-13	ALEX122113B.SSF	585371.222	43951
721967.236	4294324.051	8162	21-Dec-13	ALEX122113B.SSF	585372.152	43952
721966.64	4294323.258	7350	21-Dec-13	ALEX122113B.SSF	585373.299	43953
721966.185	4294322.709	8557	21-Dec-13	ALEX122113B.SSF	585374.075	43954
721965.65	4294321.851	7569	21-Dec-13	ALEX122113B.SSF	585375.236	43955
721965.224	4294321.276	8762	21-Dec-13	ALEX122113B.SSF	585376.132	43956
721964.554	4294320.508	10140	21-Dec-13	ALEX122113B.SSF	585377.374	43957
721964.196	4294319.96	8805	21-Dec-13	ALEX122113B.SSF	585378.102	43958
721963.589	4294319.113	8081	21-Dec-13	ALEX122113B.SSF	585379.344	43959
721963.129	4294318.684	8320	21-Dec-13	ALEX122113B.SSF	585380.062	43960
721962.479	4294317.893	9430	21-Dec-13	ALEX122113B.SSF	585381.28	43961
721962.13	4294317.301	9197	21-Dec-13	ALEX122113B.SSF	585382.12	43962
721961.568	4294316.54	9619	21-Dec-13	ALEX122113B.SSF	585383.25	43963
721961.131	4294316.064	8674	21-Dec-13	ALEX122113B.SSF	585384.057	43964
721960.592	4294315.35	8138	21-Dec-13	ALEX122113B.SSF	585385.086	43965
721960.098	4294314.682	8934	21-Dec-13	ALEX122113B.SSF	585386.083	43966
721959.515	4294313.958	7963	21-Dec-13	ALEX122113B.SSF	585387.196	43967
721959.065	4294313.358	7961	21-Dec-13	ALEX122113B.SSF	585388.01	43968
721958.434	4294312.378	7990	21-Dec-13	ALEX122113B.SSF	585389.279	43969
721958.049	4294311.836	7097	21-Dec-13	ALEX122113B.SSF	585390.081	43970
721957.443	4294311.088	6874	21-Dec-13	ALEX122113B.SSF	585391.221	43971
721957.004	4294310.445	7568	21-Dec-13	ALEX122113B.SSF	585392.133	43972
721956.588	4294309.751	7292	21-Dec-13	ALEX122113B.SSF	585393.32	43973
721956.286	4294309.319	6623	21-Dec-13	ALEX122113B.SSF	585394.088	43974
721955.836	4294308.621	7655	21-Dec-13	ALEX122113B.SSF	585395.19	43975
721955.513	4294308.017	6954	21-Dec-13	ALEX122113B.SSF	585396.169	43976
721954.955	4294307.4	6958	21-Dec-13	ALEX122113B.SSF	585397.328	43977
721954.549	4294307.025	6509	21-Dec-13	ALEX122113B.SSF	585398.185	43978

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721954.31	4294306.64	7417	21-Dec-13	ALEX122113B.SSF	585399.122	43979
721954.201	4294306.392	5766	21-Dec-13	ALEX122113B.SSF	585400.091	43980
721954.023	4294306.318	6048	21-Dec-13	ALEX122113B.SSF	585401.048	43981
721953.87	4294306.203	6033	21-Dec-13	ALEX122113B.SSF	585402.014	43982
721953.657	4294305.724	5778	21-Dec-13	ALEX122113B.SSF	585403.196	43983
721953.238	4294305.323	5857	21-Dec-13	ALEX122113B.SSF	585403.918	43984
721952.424	4294304.627	6279	21-Dec-13	ALEX122113B.SSF	585405.305	43985
721952.104	4294304.306	6015	21-Dec-13	ALEX122113B.SSF	585406.129	43986
721951.43	4294303.638	6665	21-Dec-13	ALEX122113B.SSF	585407.276	43987
721950.931	4294303.031	6076	21-Dec-13	ALEX122113B.SSF	585408.203	43988
721950.451	4294302.347	5908	21-Dec-13	ALEX122113B.SSF	585409.334	43989
721950.003	4294301.833	5986	21-Dec-13	ALEX122113B.SSF	585410.12	43990
721949.258	4294301.06	6577	21-Dec-13	ALEX122113B.SSF	585411.302	43991
721948.837	4294300.566	7734	21-Dec-13	ALEX122113B.SSF	585412.138	43992
721948.199	4294299.841	6373	21-Dec-13	ALEX122113B.SSF	585413.282	43993
721947.704	4294299.292	6693	21-Dec-13	ALEX122113B.SSF	585414.098	43994
721947.148	4294298.535	6080	21-Dec-13	ALEX122113B.SSF	585415.204	43995
721946.64	4294297.948	6590	21-Dec-13	ALEX122113B.SSF	585416.062	43996
721945.92	4294297.167	7107	21-Dec-13	ALEX122113B.SSF	585417.292	43997
721945.548	4294296.587	6307	21-Dec-13	ALEX122113B.SSF	585418.151	43998
721944.942	4294295.872	7456	21-Dec-13	ALEX122113B.SSF	585419.3	43999
721944.455	4294295.441	6994	21-Dec-13	ALEX122113B.SSF	585420.07	44000
721943.859	4294294.663	5768	21-Dec-13	ALEX122113B.SSF	585421.24	44001
721943.411	4294294.075	5644	21-Dec-13	ALEX122113B.SSF	585422.117	44002
721942.886	4294293.266	5515	21-Dec-13	ALEX122113B.SSF	585423.233	44003
721942.497	4294292.626	5749	21-Dec-13	ALEX122113B.SSF	585424.038	44004
721941.911	4294291.82	5949	21-Dec-13	ALEX122113B.SSF	585425.289	44005
721941.482	4294291.322	6113	21-Dec-13	ALEX122113B.SSF	585426.104	44006
721940.963	4294290.718	6448	21-Dec-13	ALEX122113B.SSF	585427.079	44007
721940.555	4294290.245	6202	21-Dec-13	ALEX122113B.SSF	585428.043	44008
721939.97	4294289.653	5940	21-Dec-13	ALEX122113B.SSF	585429.124	44009
721939.374	4294289.317	5812	21-Dec-13	ALEX122113B.SSF	585430.122	44010
721938.927	4294289.442	5819	21-Dec-13	ALEX122113B.SSF	585431.26	44011
721938.618	4294289.675	6363	21-Dec-13	ALEX122113B.SSF	585432.083	44012
721938.172	4294290.096	8040	21-Dec-13	ALEX122113B.SSF	585433.256	44013
721938.04	4294290.329	8100	21-Dec-13	ALEX122113B.SSF	585434.189	44014
721937.978	4294290.508	7455	21-Dec-13	ALEX122113B.SSF	585435.08	44015
721937.862	4294290.66	7143	21-Dec-13	ALEX122113B.SSF	585436.005	44016
721938.137	4294291.017	7246	21-Dec-13	ALEX122113B.SSF	585437.06	44017
721938.531	4294291.587	9311	21-Dec-13	ALEX122113B.SSF	585438.023	44018
721939.104	4294292.318	8478	21-Dec-13	ALEX122113B.SSF	585439.227	44019
721939.521	4294292.722	6469	21-Dec-13	ALEX122113B.SSF	585440.074	44020
721940.044	4294293.411	6207	21-Dec-13	ALEX122113B.SSF	585441.231	44021
721940.51	4294293.98	5492	21-Dec-13	ALEX122113B.SSF	585442.117	44022
721940.997	4294294.7	5324	21-Dec-13	ALEX122113B.SSF	585443.231	44023
721941.279	4294295.357	5140	21-Dec-13	ALEX122113B.SSF	585444.093	44024
721941.728	4294296.028	5118	21-Dec-13	ALEX122113B.SSF	585445.178	44025

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721942.235	4294296.503	5227	21-Dec-13	ALEX122113B.SSF	585446.062	44026
721942.876	4294297.273	5452	21-Dec-13	ALEX122113B.SSF	585447.17	44027
721943.174	4294297.788	5324	21-Dec-13	ALEX122113B.SSF	585448.07	44028
721943.38	4294297.982	5837	21-Dec-13	ALEX122113B.SSF	585449.068	44029
721943.471	4294297.982	5541	21-Dec-13	ALEX122113B.SSF	585450.119	44030
721943.475	4294298.043	5456	21-Dec-13	ALEX122113B.SSF	585451.113	44031
721943.447	4294298.104	5514	21-Dec-13	ALEX122113B.SSF	585452.115	44032
721943.278	4294298.525	6087	21-Dec-13	ALEX122113B.SSF	585453.469	44033
721943.305	4294298.844	5841	21-Dec-13	ALEX122113B.SSF	585454.075	44034
721943.893	4294299.533	5730	21-Dec-13	ALEX122113B.SSF	585455.118	44035
721944.516	4294300.16	6133	21-Dec-13	ALEX122113B.SSF	585456.009	44036
721944.857	4294300.689	6110	21-Dec-13	ALEX122113B.SSF	585457.129	44037
721945.028	4294301.026	6207	21-Dec-13	ALEX122113B.SSF	585458.02	44038
721945.557	4294301.625	5927	21-Dec-13	ALEX122113B.SSF	585459.056	44039
721946.035	4294302.305	6139	21-Dec-13	ALEX122113B.SSF	585460.06	44040
721946.535	4294303.006	7354	21-Dec-13	ALEX122113B.SSF	585461.1	44041
721947.196	4294303.726	7238	21-Dec-13	ALEX122113B.SSF	585462.165	44042
721947.798	4294304.487	6939	21-Dec-13	ALEX122113B.SSF	585463.288	44043
721948.282	4294304.978	7765	21-Dec-13	ALEX122113B.SSF	585464.038	44044
721949.131	4294305.78	7131	21-Dec-13	ALEX122113B.SSF	585465.276	44045
721949.55	4294306.305	7542	21-Dec-13	ALEX122113B.SSF	585466.054	44046
721949.998	4294307.121	7555	21-Dec-13	ALEX122113B.SSF	585467.192	44047
721950.43	4294307.716	6809	21-Dec-13	ALEX122113B.SSF	585468.016	44048
721951.061	4294308.531	7672	21-Dec-13	ALEX122113B.SSF	585469.224	44049
721951.386	4294309.123	6898	21-Dec-13	ALEX122113B.SSF	585470.113	44050
721951.913	4294309.782	6884	21-Dec-13	ALEX122113B.SSF	585471.23	44051
721952.358	4294310.262	6791	21-Dec-13	ALEX122113B.SSF	585472.06	44052
721952.958	4294310.971	7367	21-Dec-13	ALEX122113B.SSF	585473.249	44053
721953.321	4294311.427	6941	21-Dec-13	ALEX122113B.SSF	585474.142	44054
721953.656	4294311.856	7255	21-Dec-13	ALEX122113B.SSF	585475.116	44055
721953.909	4294312.245	6464	21-Dec-13	ALEX122113B.SSF	585476.091	44056
721954.176	4294312.606	6086	21-Dec-13	ALEX122113B.SSF	585477.197	44057
721954.465	4294312.724	6081	21-Dec-13	ALEX122113B.SSF	585478.081	44058
721955.162	4294312.656	6260	21-Dec-13	ALEX122113B.SSF	585479.239	44059
721955.573	4294312.819	6485	21-Dec-13	ALEX122113B.SSF	585480.12	44060
721955.713	4294313.35	7171	21-Dec-13	ALEX122113B.SSF	585481.186	44061
721955.862	4294313.784	6922	21-Dec-13	ALEX122113B.SSF	585482.007	44062
721956.143	4294314.379	7580	21-Dec-13	ALEX122113B.SSF	585483.041	44063
721956.465	4294314.987	7055	21-Dec-13	ALEX122113B.SSF	585483.988	44064
721957.041	4294315.936	8123	21-Dec-13	ALEX122113B.SSF	585485.254	44065
721957.479	4294316.533	6891	21-Dec-13	ALEX122113B.SSF	585486.139	44066
721958.111	4294317.124	7752	21-Dec-13	ALEX122113B.SSF	585487.203	44067
721958.579	4294317.749	7248	21-Dec-13	ALEX122113B.SSF	585488.067	44068
721959.135	4294318.714	7602	21-Dec-13	ALEX122113B.SSF	585489.255	44069
721959.575	4294319.32	7870	21-Dec-13	ALEX122113B.SSF	585490.063	44070
721960.276	4294320.062	8267	21-Dec-13	ALEX122113B.SSF	585491.088	44071
721960.866	4294320.654	8096	21-Dec-13	ALEX122113B.SSF	585492.035	44072

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721961.544	4294321.249	8204	21-Dec-13	ALEX122113B.SSF	585493.245	44073
721962.092	4294321.904	8141	21-Dec-13	ALEX122113B.SSF	585494.256	44074
721962.523	4294322.471	8695	21-Dec-13	ALEX122113B.SSF	585495.116	44075
721962.938	4294323.009	8173	21-Dec-13	ALEX122113B.SSF	585495.998	44076
721963.557	4294323.868	7953	21-Dec-13	ALEX122113B.SSF	585497.153	44077
721964.668	4294325.189	8649	21-Dec-13	ALEX122113B.SSF	585499.253	44079
721965.189	4294325.725	8792	21-Dec-13	ALEX122113B.SSF	585500.102	44080
721965.731	4294326.525	9458	21-Dec-13	ALEX122113B.SSF	585501.214	44081
721966.225	4294327.076	9084	21-Dec-13	ALEX122113B.SSF	585502.031	44082
721966.866	4294327.871	8241	21-Dec-13	ALEX122113B.SSF	585503.203	44083
721967.326	4294328.563	8870	21-Dec-13	ALEX122113B.SSF	585504.09	44084
721967.973	4294329.39	7617	21-Dec-13	ALEX122113B.SSF	585505.262	44085
721968.438	4294329.897	8444	21-Dec-13	ALEX122113B.SSF	585506.006	44086
721969.212	4294330.749	8081	21-Dec-13	ALEX122113B.SSF	585507.145	44087
721969.739	4294331.451	8230	21-Dec-13	ALEX122113B.SSF	585508.094	44088
721970.474	4294332.195	7517	21-Dec-13	ALEX122113B.SSF	585509.17	44089
721971.084	4294332.773	8059	21-Dec-13	ALEX122113B.SSF	585510.066	44090
721971.685	4294333.576	8134	21-Dec-13	ALEX122113B.SSF	585511.091	44091
721972.182	4294334.255	8933	21-Dec-13	ALEX122113B.SSF	585512.111	44092
721972.804	4294334.966	8833	21-Dec-13	ALEX122113B.SSF	585513.255	44093
721973.373	4294335.537	8718	21-Dec-13	ALEX122113B.SSF	585514.077	44094
721974.009	4294336.281	9109	21-Dec-13	ALEX122113B.SSF	585515.094	44095
721974.65	4294336.835	9717	21-Dec-13	ALEX122113B.SSF	585516.083	44096
721975.353	4294337.289	9719	21-Dec-13	ALEX122113B.SSF	585517.095	44097
721976.03	4294337.796	7890	21-Dec-13	ALEX122113B.SSF	585518.107	44098
721976.507	4294338.433	7642	21-Dec-13	ALEX122113B.SSF	585519.087	44099
721977.13	4294339.178	8870	21-Dec-13	ALEX122113B.SSF	585520.072	44100
721977.78	4294339.915	9387	21-Dec-13	ALEX122113B.SSF	585521.171	44101
721978.34	4294340.5	7897	21-Dec-13	ALEX122113B.SSF	585522.172	44102
721979.032	4294341.067	10554	21-Dec-13	ALEX122113B.SSF	585523.175	44103
721979.56	4294341.505	10408	21-Dec-13	ALEX122113B.SSF	585524.048	44104
721980.265	4294342.236	11362	21-Dec-13	ALEX122113B.SSF	585525.307	44105
721980.746	4294342.706	11120	21-Dec-13	ALEX122113B.SSF	585526.182	44106
721981.1	4294343	10610	21-Dec-13	ALEX122113B.SSF	585527.133	44107
721981.188	4294343.054	9402	21-Dec-13	ALEX122113B.SSF	585528.046	44108
721981.17	4294343.088	9730	21-Dec-13	ALEX122113B.SSF	585529.196	44109
721981.077	4294343.269	10862	21-Dec-13	ALEX122113B.SSF	585530.105	44110
721980.988	4294343.775	9075	21-Dec-13	ALEX122113B.SSF	585531.238	44111
721980.869	4294344.215	9738	21-Dec-13	ALEX122113B.SSF	585532.047	44112
721980.67	4294344.328	9664	21-Dec-13	ALEX122113B.SSF	585533.135	44113
721980.586	4294344.434	10336	21-Dec-13	ALEX122113B.SSF	585534.113	44114
721980.56	4294344.526	9994	21-Dec-13	ALEX122113B.SSF	585535.063	44115
721980.576	4294344.404	10088	21-Dec-13	ALEX122113B.SSF	585536.051	44116
721980.57	4294344.289	9272	21-Dec-13	ALEX122113B.SSF	585537.068	44117
721980.357	4294344.089	9278	21-Dec-13	ALEX122113B.SSF	585537.978	44118
721979.723	4294343.572	8739	21-Dec-13	ALEX122113B.SSF	585539.176	44119
721979.075	4294343.144	8635	21-Dec-13	ALEX122113B.SSF	585540.058	44120

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721978.394	4294342.535	9088	21-Dec-13	ALEX122113B.SSF	585541.168	44121
721977.912	4294341.975	8602	21-Dec-13	ALEX122113B.SSF	585542.054	44122
721977.208	4294341.244	8330	21-Dec-13	ALEX122113B.SSF	585543.184	44123
721976.679	4294340.683	9522	21-Dec-13	ALEX122113B.SSF	585544.037	44124
721975.994	4294339.71	8530	21-Dec-13	ALEX122113B.SSF	585545.281	44125
721975.53	4294339.138	7952	21-Dec-13	ALEX122113B.SSF	585546.103	44126
721974.813	4294338.443	8288	21-Dec-13	ALEX122113B.SSF	585547.156	44127
721974.351	4294337.895	9062	21-Dec-13	ALEX122113B.SSF	585547.991	44128
721973.834	4294337.169	8505	21-Dec-13	ALEX122113B.SSF	585549.231	44129
721973.441	4294336.719	8006	21-Dec-13	ALEX122113B.SSF	585550.056	44130
721972.773	4294336.081	8421	21-Dec-13	ALEX122113B.SSF	585551.045	44131
721972.134	4294335.431	7985	21-Dec-13	ALEX122113B.SSF	585552.076	44132
721971.573	4294334.671	7906	21-Dec-13	ALEX122113B.SSF	585553.124	44133
721971.138	4294334.021	8066	21-Dec-13	ALEX122113B.SSF	585554.053	44134
721970.421	4294333.226	7086	21-Dec-13	ALEX122113B.SSF	585555.256	44135
721969.909	4294332.681	7141	21-Dec-13	ALEX122113B.SSF	585556.1	44136
721969.294	4294331.905	6585	21-Dec-13	ALEX122113B.SSF	585557.209	44137
721968.745	4294331.283	8096	21-Dec-13	ALEX122113B.SSF	585558.107	44138
721968.075	4294330.522	8804	21-Dec-13	ALEX122113B.SSF	585559.252	44139
721967.614	4294329.914	9521	21-Dec-13	ALEX122113B.SSF	585560.055	44140
721967.071	4294329.21	9670	21-Dec-13	ALEX122113B.SSF	585561.121	44141
721966.555	4294328.637	9347	21-Dec-13	ALEX122113B.SSF	585562.005	44142
721965.902	4294327.828	8936	21-Dec-13	ALEX122113B.SSF	585563.169	44143
721965.449	4294327.171	8924	21-Dec-13	ALEX122113B.SSF	585564.117	44144
721964.89	4294326.517	8681	21-Dec-13	ALEX122113B.SSF	585565.055	44145
721964.355	4294325.941	7120	21-Dec-13	ALEX122113B.SSF	585565.976	44146
721963.906	4294325.193	7840	21-Dec-13	ALEX122113B.SSF	585567.019	44147
721963.417	4294324.504	8110	21-Dec-13	ALEX122113B.SSF	585567.985	44148
721962.749	4294323.827	7577	21-Dec-13	ALEX122113B.SSF	585569.084	44149
721962.289	4294323.294	7654	21-Dec-13	ALEX122113B.SSF	585569.976	44150
721962.042	4294322.979	7703	21-Dec-13	ALEX122113B.SSF	585571.065	44151
721962.054	4294323.005	8166	21-Dec-13	ALEX122113B.SSF	585572.012	44152
721962.012	4294323.062	7111	21-Dec-13	ALEX122113B.SSF	585573.019	44153
721961.952	4294323.052	6697	21-Dec-13	ALEX122113B.SSF	585574.01	44154
721961.824	4294322.784	7074	21-Dec-13	ALEX122113B.SSF	585575.441	44155
721961.782	4294322.722	8818	21-Dec-13	ALEX122113B.SSF	585575.588	44156
721961.371	4294322.024	8294	21-Dec-13	ALEX122113B.SSF	585576.747	44157
721961.11	4294321.548	7833	21-Dec-13	ALEX122113B.SSF	585577.544	44158
721960.729	4294321.011	8078	21-Dec-13	ALEX122113B.SSF	585578.613	44159
721960.24	4294320.521	7659	21-Dec-13	ALEX122113B.SSF	585579.525	44160
721959.372	4294319.337	7705	21-Dec-13	ALEX122113B.SSF	585581.24	44161
721958.98	4294318.765	7296	21-Dec-13	ALEX122113B.SSF	585582.08	44162
721958.538	4294318.175	6564	21-Dec-13	ALEX122113B.SSF	585583.14	44163
721958.227	4294317.606	6801	21-Dec-13	ALEX122113B.SSF	585584.049	44164
721957.828	4294317.137	6140	21-Dec-13	ALEX122113B.SSF	585585.105	44165
721957.307	4294316.775	6367	21-Dec-13	ALEX122113B.SSF	585586.077	44166
721956.83	4294316.397	6212	21-Dec-13	ALEX122113B.SSF	585587.111	44167

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721956.565	4294315.985	6833	21-Dec-13	ALEX122113B.SSF	585588.044	44168
721956.08	4294315.81	6688	21-Dec-13	ALEX122113B.SSF	585589.224	44169
721955.682	4294315.825	5583	21-Dec-13	ALEX122113B.SSF	585590.056	44170
721955.475	4294315.382	6058	21-Dec-13	ALEX122113B.SSF	585591.13	44171
721955.305	4294314.705	6141	21-Dec-13	ALEX122113B.SSF	585592.153	44172
721954.899	4294314.182	5645	21-Dec-13	ALEX122113B.SSF	585593.297	44173
721954.692	4294313.934	7982	21-Dec-13	ALEX122113B.SSF	585593.993	44174
721954.218	4294313.285	7875	21-Dec-13	ALEX122113B.SSF	585595.117	44175
721953.831	4294312.617	8238	21-Dec-13	ALEX122113B.SSF	585595.971	44176
721953.306	4294311.893	7939	21-Dec-13	ALEX122113B.SSF	585597.058	44177
721952.772	4294311.285	7415	21-Dec-13	ALEX122113B.SSF	585598.057	44178
721952.154	4294310.498	6953	21-Dec-13	ALEX122113B.SSF	585599.096	44179
721951.632	4294309.882	7528	21-Dec-13	ALEX122113B.SSF	585600.027	44180
721951.054	4294309.224	8212	21-Dec-13	ALEX122113B.SSF	585601.098	44181
721950.551	4294308.522	6763	21-Dec-13	ALEX122113B.SSF	585602.074	44182
721949.97	4294307.938	7600	21-Dec-13	ALEX122113B.SSF	585603.029	44183
721949.464	4294307.445	6850	21-Dec-13	ALEX122113B.SSF	585603.979	44184
721948.755	4294306.69	7082	21-Dec-13	ALEX122113B.SSF	585605.087	44185
721948.233	4294306.038	6030	21-Dec-13	ALEX122113B.SSF	585606.031	44186
721947.586	4294305.231	7406	21-Dec-13	ALEX122113B.SSF	585607.133	44187
721947.004	4294304.513	7161	21-Dec-13	ALEX122113B.SSF	585608.003	44188
721946.484	4294303.659	5930	21-Dec-13	ALEX122113B.SSF	585609.036	44189
721946.053	4294302.963	6948	21-Dec-13	ALEX122113B.SSF	585610.006	44190
721945.47	4294302.272	6191	21-Dec-13	ALEX122113B.SSF	585610.99	44191
721944.974	4294301.727	6437	21-Dec-13	ALEX122113B.SSF	585611.998	44192
721944.454	4294301.086	6529	21-Dec-13	ALEX122113B.SSF	585613.004	44193
721943.875	4294300.441	5322	21-Dec-13	ALEX122113B.SSF	585613.99	44194
721943.095	4294299.811	5866	21-Dec-13	ALEX122113B.SSF	585614.999	44195
721942.477	4294299.245	5414	21-Dec-13	ALEX122113B.SSF	585615.977	44196
721941.942	4294298.563	5370	21-Dec-13	ALEX122113B.SSF	585616.958	44197
721941.237	4294297.757	5466	21-Dec-13	ALEX122113B.SSF	585618.047	44198
721940.587	4294297.052	5212	21-Dec-13	ALEX122113B.SSF	585619.047	44199
721940.006	4294296.421	5444	21-Dec-13	ALEX122113B.SSF	585619.97	44200
721939.494	4294295.696	5410	21-Dec-13	ALEX122113B.SSF	585621.067	44201
721938.89	4294295.243	5413	21-Dec-13	ALEX122113B.SSF	585621.969	44202
721938.082	4294295.086	5437	21-Dec-13	ALEX122113B.SSF	585622.994	44203
721937.545	4294295.4	5331	21-Dec-13	ALEX122113B.SSF	585623.906	44204
721937.068	4294296.246	5113	21-Dec-13	ALEX122113B.SSF	585625.111	44205
721936.857	4294296.967	5238	21-Dec-13	ALEX122113B.SSF	585626.076	44206
721936.862	4294297.236	4979	21-Dec-13	ALEX122113B.SSF	585627.126	44207
721936.999	4294297.19	5073	21-Dec-13	ALEX122113B.SSF	585628.117	44208
721937.095	4294297.13	4466	21-Dec-13	ALEX122113B.SSF	585629.091	44209
721937.126	4294297.109	5122	21-Dec-13	ALEX122113B.SSF	585630.041	44210
721937.166	4294297.073	5401	21-Dec-13	ALEX122113B.SSF	585631.008	44211
721937.183	4294297.122	5670	21-Dec-13	ALEX122113B.SSF	585631.918	44212
721937.513	4294297.408	5221	21-Dec-13	ALEX122113B.SSF	585633.11	44213
721937.946	4294297.951	5727	21-Dec-13	ALEX122113B.SSF	585633.982	44214

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721938.462	4294298.595	5119	21-Dec-13	ALEX122113B.SSF	585635.132	44215
721938.922	4294299.093	5354	21-Dec-13	ALEX122113B.SSF	585635.889	44216
721939.772	4294299.914	5336	21-Dec-13	ALEX122113B.SSF	585637.214	44217
721940.114	4294300.347	5499	21-Dec-13	ALEX122113B.SSF	585637.913	44218
721940.744	4294301.087	5583	21-Dec-13	ALEX122113B.SSF	585639.041	44219
721941.373	4294301.772	5833	21-Dec-13	ALEX122113B.SSF	585639.986	44220
721942.049	4294302.512	5426	21-Dec-13	ALEX122113B.SSF	585641.049	44221
721942.371	4294303.116	5377	21-Dec-13	ALEX122113B.SSF	585641.94	44222
721942.943	4294303.815	6032	21-Dec-13	ALEX122113B.SSF	585643.007	44223
721943.509	4294304.368	5095	21-Dec-13	ALEX122113B.SSF	585643.974	44224
721944.109	4294305.264	4943	21-Dec-13	ALEX122113B.SSF	585645.147	44225
721944.506	4294305.882	5008	21-Dec-13	ALEX122113B.SSF	585646.023	44226
721945.113	4294306.61	5404	21-Dec-13	ALEX122113B.SSF	585647.06	44227
721945.68	4294307.262	5605	21-Dec-13	ALEX122113B.SSF	585647.979	44228
721946.182	4294308.002	5898	21-Dec-13	ALEX122113B.SSF	585649.187	44229
721946.744	4294308.564	6966	21-Dec-13	ALEX122113B.SSF	585650.144	44230
721947.478	4294309.187	7111	21-Dec-13	ALEX122113B.SSF	585651.177	44231
721948.03	4294309.868	6967	21-Dec-13	ALEX122113B.SSF	585652.122	44232
721948.479	4294310.376	6092	21-Dec-13	ALEX122113B.SSF	585653.092	44233
721949.215	4294310.665	5644	21-Dec-13	ALEX122113B.SSF	585654.052	44234
721949.776	4294311.241	6661	21-Dec-13	ALEX122113B.SSF	585655.139	44235
721949.93	4294311.869	7005	21-Dec-13	ALEX122113B.SSF	585656.007	44236
721950.459	4294312.841	7271	21-Dec-13	ALEX122113B.SSF	585657.193	44237
721950.853	4294313.399	7158	21-Dec-13	ALEX122113B.SSF	585658.055	44238
721951.317	4294314.116	7399	21-Dec-13	ALEX122113B.SSF	585659.079	44239
721951.879	4294314.775	7849	21-Dec-13	ALEX122113B.SSF	585660.08	44240
721952.413	4294315.344	8232	21-Dec-13	ALEX122113B.SSF	585661.092	44241
721952.789	4294315.785	7488	21-Dec-13	ALEX122113B.SSF	585661.997	44242
721953.192	4294316.284	7512	21-Dec-13	ALEX122113B.SSF	585663.097	44243
721953.627	4294316.789	7908	21-Dec-13	ALEX122113B.SSF	585664.01	44244
721954.091	4294317.58	6777	21-Dec-13	ALEX122113B.SSF	585665.072	44245
721954.385	4294318.073	8204	21-Dec-13	ALEX122113B.SSF	585665.953	44246
721954.913	4294318.66	7991	21-Dec-13	ALEX122113B.SSF	585667.051	44247
721955.503	4294319.221	6677	21-Dec-13	ALEX122113B.SSF	585667.974	44248
721956.029	4294319.767	7519	21-Dec-13	ALEX122113B.SSF	585669.058	44249
721956.561	4294320.3	7099	21-Dec-13	ALEX122113B.SSF	585670.069	44250
721957.112	4294320.929	7415	21-Dec-13	ALEX122113B.SSF	585671.125	44251
721957.359	4294321.345	7313	21-Dec-13	ALEX122113B.SSF	585671.942	44252
721957.876	4294322.06	6658	21-Dec-13	ALEX122113B.SSF	585673.175	44253
721958.257	4294322.596	6494	21-Dec-13	ALEX122113B.SSF	585674.088	44254
721958.324	4294322.963	6633	21-Dec-13	ALEX122113B.SSF	585675.113	44255
721958.395	4294323.154	6188	21-Dec-13	ALEX122113B.SSF	585676.028	44256
721958.663	4294323.361	6707	21-Dec-13	ALEX122113B.SSF	585677.056	44257
721959.003	4294323.604	6326	21-Dec-13	ALEX122113B.SSF	585678.011	44258
721959.53	4294324.061	5792	21-Dec-13	ALEX122113B.SSF	585679.165	44259
721959.911	4294324.504	6453	21-Dec-13	ALEX122113B.SSF	585680.105	44260
721960.229	4294324.923	6893	21-Dec-13	ALEX122113B.SSF	585681.045	44261

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721960.691	4294325.488	7273	21-Dec-13	ALEX122113B.SSF	585682.021	44262
721961.308	4294326.1	6978	21-Dec-13	ALEX122113B.SSF	585683.127	44263
721961.779	4294326.597	6244	21-Dec-13	ALEX122113B.SSF	585683.977	44264
721962.293	4294327.175	6451	21-Dec-13	ALEX122113B.SSF	585685.072	44265
721962.67	4294327.743	7342	21-Dec-13	ALEX122113B.SSF	585686.013	44266
721963.362	4294328.438	7055	21-Dec-13	ALEX122113B.SSF	585687.106	44267
721963.885	4294328.973	6684	21-Dec-13	ALEX122113B.SSF	585687.998	44268
721964.356	4294329.691	6621	21-Dec-13	ALEX122113B.SSF	585689.028	44269
721965.018	4294330.487	6935	21-Dec-13	ALEX122113B.SSF	585690.072	44270
721965.593	4294331.062	7133	21-Dec-13	ALEX122113B.SSF	585691.026	44271
721966.151	4294331.695	7243	21-Dec-13	ALEX122113B.SSF	585692.077	44272
721966.718	4294332.275	7091	21-Dec-13	ALEX122113B.SSF	585693.063	44273
721967.177	4294332.69	6932	21-Dec-13	ALEX122113B.SSF	585694.005	44274
721967.727	4294333.304	7673	21-Dec-13	ALEX122113B.SSF	585695.063	44275
721968.204	4294333.911	8428	21-Dec-13	ALEX122113B.SSF	585695.901	44276
721968.696	4294334.557	8467	21-Dec-13	ALEX122113B.SSF	585697.01	44277
721969.13	4294335.194	8626	21-Dec-13	ALEX122113B.SSF	585697.971	44278
721969.713	4294335.929	7136	21-Dec-13	ALEX122113B.SSF	585698.999	44279
721970.298	4294336.528	7034	21-Dec-13	ALEX122113B.SSF	585699.968	44280
721970.925	4294337.174	7158	21-Dec-13	ALEX122113B.SSF	585700.99	44281
721971.478	4294337.801	7549	21-Dec-13	ALEX122113B.SSF	585701.929	44282
721972.16	4294338.345	7257	21-Dec-13	ALEX122113B.SSF	585702.999	44283
721972.807	4294338.955	8084	21-Dec-13	ALEX122113B.SSF	585703.934	44284
721973.384	4294339.609	7691	21-Dec-13	ALEX122113B.SSF	585704.984	44285
721973.893	4294340.195	6782	21-Dec-13	ALEX122113B.SSF	585705.927	44286
721974.672	4294340.961	7575	21-Dec-13	ALEX122113B.SSF	585707.103	44287
721975.131	4294341.498	6783	21-Dec-13	ALEX122113B.SSF	585707.929	44288
721975.704	4294342.188	7396	21-Dec-13	ALEX122113B.SSF	585709.092	44289
721976.381	4294342.758	8569	21-Dec-13	ALEX122113B.SSF	585710.068	44290
721977.005	4294343.181	8052	21-Dec-13	ALEX122113B.SSF	585710.978	44291
721977.558	4294343.701	8973	21-Dec-13	ALEX122113B.SSF	585711.911	44292
721978.367	4294344.42	8633	21-Dec-13	ALEX122113B.SSF	585713.119	44293
721978.938	4294344.748	8158	21-Dec-13	ALEX122113B.SSF	585713.969	44294
721979.524	4294345.246	9419	21-Dec-13	ALEX122113B.SSF	585715.063	44295
721979.854	4294345.654	8505	21-Dec-13	ALEX122113B.SSF	585716.028	44296
721979.877	4294346.017	9836	21-Dec-13	ALEX122113B.SSF	585717.08	44297
721979.741	4294346.483	8609	21-Dec-13	ALEX122113B.SSF	585718.012	44298
721979.547	4294346.722	8452	21-Dec-13	ALEX122113B.SSF	585719.068	44299
721979.729	4294346.542	8893	21-Dec-13	ALEX122113B.SSF	585719.967	44300
721980.074	4294346.298	10443	21-Dec-13	ALEX122113B.SSF	585721.076	44301
721980.122	4294346.076	10320	21-Dec-13	ALEX122113B.SSF	585721.958	44302
721979.92	4294346.278	10050	21-Dec-13	ALEX122113B.SSF	585723.099	44303
721979.709	4294346.698	8332	21-Dec-13	ALEX122113B.SSF	585723.976	44304
721979.406	4294347.087	8923	21-Dec-13	ALEX122113B.SSF	585725.107	44305
721979.234	4294347.148	8951	21-Dec-13	ALEX122113B.SSF	585725.944	44306
721979.057	4294347.007	8627	21-Dec-13	ALEX122113B.SSF	585727.133	44307
721979.039	4294346.914	9596	21-Dec-13	ALEX122113B.SSF	585728.031	44308

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721978.757	4294346.559	8939	21-Dec-13	ALEX122113B.SSF	585729.083	44309
721978.16	4294346.019	8625	21-Dec-13	ALEX122113B.SSF	585730.068	44310
721977.471	4294345.501	8726	21-Dec-13	ALEX122113B.SSF	585731.023	44311
721976.987	4294344.951	7551	21-Dec-13	ALEX122113B.SSF	585731.894	44312
721976.425	4294344.208	8517	21-Dec-13	ALEX122113B.SSF	585732.956	44313
721975.863	4294343.602	8519	21-Dec-13	ALEX122113B.SSF	585733.951	44314
721975.2	4294342.911	7560	21-Dec-13	ALEX122113B.SSF	585735.178	44315
721974.706	4294342.355	7560	21-Dec-13	ALEX122113B.SSF	585736.111	44316
721974.272	4294341.849	7140	21-Dec-13	ALEX122113B.SSF	585736.986	44317
721973.576	4294341.244	7515	21-Dec-13	ALEX122113B.SSF	585738.102	44318
721973.318	4294340.64	7668	21-Dec-13	ALEX122113B.SSF	585739.032	44319
721973.023	4294339.953	7497	21-Dec-13	ALEX122113B.SSF	585740.09	44320
721972.741	4294339.294	6914	21-Dec-13	ALEX122113B.SSF	585741.105	44321
721972.35	4294338.694	7248	21-Dec-13	ALEX122113B.SSF	585742.182	44322
721971.64	4294338.419	6612	21-Dec-13	ALEX122113B.SSF	585743.214	44323
721971.273	4294337.608	6783	21-Dec-13	ALEX122113B.SSF	585744.147	44324
721970.644	4294336.974	6975	21-Dec-13	ALEX122113B.SSF	585745.117	44325
721970.101	4294336.304	8163	21-Dec-13	ALEX122113B.SSF	585746.048	44326
721969.6	4294335.804	8041	21-Dec-13	ALEX122113B.SSF	585747.134	44327
721969.107	4294335.406	8070	21-Dec-13	ALEX122113B.SSF	585748.049	44328
721968.471	4294334.96	7957	21-Dec-13	ALEX122113B.SSF	585749.061	44329
721967.939	4294334.363	8439	21-Dec-13	ALEX122113B.SSF	585750.052	44330
721967.44	4294333.755	8230	21-Dec-13	ALEX122113B.SSF	585751.044	44331
721966.364	4294332.551	7331	21-Dec-13	ALEX122113B.SSF	585752.99	44333
721966.029	4294331.797	7503	21-Dec-13	ALEX122113B.SSF	585753.951	44334
721965.424	4294331.227	6345	21-Dec-13	ALEX122113B.SSF	585755.011	44335
721964.243	4294329.997	7206	21-Dec-13	ALEX122113B.SSF	585757.036	44337
721963.794	4294329.371	7111	21-Dec-13	ALEX122113B.SSF	585757.851	44338
721963.056	4294328.658	6637	21-Dec-13	ALEX122113B.SSF	585759.012	44339
721962.686	4294328.086	6669	21-Dec-13	ALEX122113B.SSF	585759.852	44340
721962.286	4294327.36	7487	21-Dec-13	ALEX122113B.SSF	585761.103	44341
721961.983	4294327.301	6581	21-Dec-13	ALEX122113B.SSF	585761.936	44342
721961.716	4294327.494	6565	21-Dec-13	ALEX122113B.SSF	585763.13	44343
721961.585	4294327.397	5751	21-Dec-13	ALEX122113B.SSF	585763.938	44344
721961.029	4294326.717	5785	21-Dec-13	ALEX122113B.SSF	585765.153	44345
721960.604	4294326.096	6119	21-Dec-13	ALEX122113B.SSF	585765.988	44346
721960.142	4294325.18	5909	21-Dec-13	ALEX122113B.SSF	585767.095	44347
721959.133	4294324.471	6821	21-Dec-13	ALEX122113B.SSF	585767.986	44348
721957.85	4294324.118	7195	21-Dec-13	ALEX122113B.SSF	585769.116	44349
721957.331	4294323.814	8128	21-Dec-13	ALEX122113B.SSF	585769.997	44350
721956.998	4294322.885	7642	21-Dec-13	ALEX122113B.SSF	585771.084	44351
721956.547	4294322.147	6650	21-Dec-13	ALEX122113B.SSF	585771.972	44352
721955.745	4294321.368	8232	21-Dec-13	ALEX122113B.SSF	585773.096	44353
721955.257	4294320.65	6978	21-Dec-13	ALEX122113B.SSF	585773.916	44354
721954.768	4294319.783	7294	21-Dec-13	ALEX122113B.SSF	585775.118	44355
721954.319	4294319.388	7463	21-Dec-13	ALEX122113B.SSF	585775.948	44356
721953.692	4294318.507	7836	21-Dec-13	ALEX122113B.SSF	585777.152	44357

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721953.41	4294317.953	7029	21-Dec-13	ALEX122113B.SSF	585777.961	44358
721952.728	4294317.337	8477	21-Dec-13	ALEX122113B.SSF	585779.124	44359
721952.188	4294316.784	7219	21-Dec-13	ALEX122113B.SSF	585779.97	44360
721951.682	4294316.029	7834	21-Dec-13	ALEX122113B.SSF	585781.105	44361
721951.162	4294315.562	7658	21-Dec-13	ALEX122113B.SSF	585781.921	44362
721950.327	4294314.966	7434	21-Dec-13	ALEX122113B.SSF	585783.096	44363
721950.18	4294314.56	6628	21-Dec-13	ALEX122113B.SSF	585783.926	44364
721950.024	4294314.11	5557	21-Dec-13	ALEX122113B.SSF	585785.144	44365
721949.39	4294313.828	5893	21-Dec-13	ALEX122113B.SSF	585785.99	44366
721948.217	4294313.269	5992	21-Dec-13	ALEX122113B.SSF	585787.194	44367
721947.63	4294312.714	5952	21-Dec-13	ALEX122113B.SSF	585788	44368
721947.31	4294311.8	6147	21-Dec-13	ALEX122113B.SSF	585789.117	44369
721946.956	4294311.173	5706	21-Dec-13	ALEX122113B.SSF	585789.996	44370
721946.389	4294310.708	6082	21-Dec-13	ALEX122113B.SSF	585791.177	44371
721946.332	4294310.623	5840	21-Dec-13	ALEX122113B.SSF	585791.969	44372
721946.102	4294310.836	5625	21-Dec-13	ALEX122113B.SSF	585793.081	44373
721945.426	4294311.02	6021	21-Dec-13	ALEX122113B.SSF	585793.874	44374
721944.566	4294311.383	5817	21-Dec-13	ALEX122113B.SSF	585795.024	44375
721944.368	4294311.652	5252	21-Dec-13	ALEX122113B.SSF	585795.925	44376
721944.234	4294311.864	5197	21-Dec-13	ALEX122113B.SSF	585796.9919	44377
721944.146	4294312.184	5330	21-Dec-13	ALEX122113B.SSF	585797.837	44378
721944.236	4294312.794	5271	21-Dec-13	ALEX122113B.SSF	585798.929	44379
721944.597	4294313.392	4907	21-Dec-13	ALEX122113B.SSF	585799.875	44380
721945.399	4294314.152	5040	21-Dec-13	ALEX122113B.SSF	585801.1121	44381
721945.855	4294314.812	5640	21-Dec-13	ALEX122113B.SSF	585801.95	44382
721946.375	4294315.582	5477	21-Dec-13	ALEX122113B.SSF	585802.996	44383
721946.885	4294316.01	5466	21-Dec-13	ALEX122113B.SSF	585803.9	44384
721947.396	4294316.704	5842	21-Dec-13	ALEX122113B.SSF	585805.002	44385
721947.624	4294317.391	5791	21-Dec-13	ALEX122113B.SSF	585805.923	44386
721948.017	4294317.849	5807	21-Dec-13	ALEX122113B.SSF	585806.953	44387
721948.682	4294318.283	6933	21-Dec-13	ALEX122113B.SSF	585807.925	44388
721949.514	4294319.19	6893	21-Dec-13	ALEX122113B.SSF	585809.1071	44389
721949.855	4294319.922	7603	21-Dec-13	ALEX122113B.SSF	585809.923	44390
721950.249	4294320.624	7001	21-Dec-13	ALEX122113B.SSF	585811.041	44391
721950.811	4294321.007	7600	21-Dec-13	ALEX122113B.SSF	585811.986	44392
721951.362	4294321.701	6850	21-Dec-13	ALEX122113B.SSF	585813.095	44393
721951.582	4294322.231	6602	21-Dec-13	ALEX122113B.SSF	585813.932	44394
721952.068	4294322.757	7170	21-Dec-13	ALEX122113B.SSF	585814.964	44395
721952.603	4294323.319	6892	21-Dec-13	ALEX122113B.SSF	585815.856	44396
721953.142	4294324.107	6343	21-Dec-13	ALEX122113B.SSF	585816.953	44397
721953.764	4294324.783	4823	21-Dec-13	ALEX122113B.SSF	585817.934	44398
721954.502	4294325.337	6125	21-Dec-13	ALEX122113B.SSF	585818.951	44399
721954.975	4294325.919	7411	21-Dec-13	ALEX122113B.SSF	585819.8571	44400
721955.555	4294326.609	7072	21-Dec-13	ALEX122113B.SSF	585820.9351	44401
721956.145	4294327.1	5758	21-Dec-13	ALEX122113B.SSF	585821.9139	44402
721956.731	4294327.658	6089	21-Dec-13	ALEX122113B.SSF	585822.911	44403
721957.357	4294328.192	7012	21-Dec-13	ALEX122113B.SSF	585823.9189	44404

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721958.043	4294328.695	6013	21-Dec-13	ALEX122113B.SSF	585825.092	44405
721958.459	4294329.235	6964	21-Dec-13	ALEX122113B.SSF	585825.9659	44406
721959.066	4294329.951	7291	21-Dec-13	ALEX122113B.SSF	585826.965	44407
721959.843	4294330.474	6892	21-Dec-13	ALEX122113B.SSF	585827.927	44408
721960.651	4294331.051	7423	21-Dec-13	ALEX122113B.SSF	585829.087	44409
721961.036	4294331.585	8336	21-Dec-13	ALEX122113B.SSF	585829.875	44410
721961.589	4294332.207	8474	21-Dec-13	ALEX122113B.SSF	585830.985	44411
721962.106	4294332.56	7248	21-Dec-13	ALEX122113B.SSF	585831.83	44412
721962.662	4294333.135	7632	21-Dec-13	ALEX122113B.SSF	585832.993	44413
721962.858	4294333.645	7188	21-Dec-13	ALEX122113B.SSF	585833.932	44414
721963.224	4294334.049	6507	21-Dec-13	ALEX122113B.SSF	585835.114	44415
721963.465	4294334.371	6486	21-Dec-13	ALEX122113B.SSF	585836.0081	44416
721963.659	4294334.622	6061	21-Dec-13	ALEX122113B.SSF	585837.002	44417
721963.846	4294335.035	6548	21-Dec-13	ALEX122113B.SSF	585838.045	44418
721963.756	4294335.015	5980	21-Dec-13	ALEX122113B.SSF	585839.03	44419
721963.497	4294335.042	6236	21-Dec-13	ALEX122113B.SSF	585839.9871	44420
721964.481	4294335.407	6599	21-Dec-13	ALEX122113B.SSF	585841.051	44421
721966.251	4294335.574	7657	21-Dec-13	ALEX122113B.SSF	585843.015	44423
721966.352	4294336.291	7416	21-Dec-13	ALEX122113B.SSF	585845.049	44425
721966.777	4294336.635	7464	21-Dec-13	ALEX122113B.SSF	585845.9041	44426
721967.362	4294337.345	7806	21-Dec-13	ALEX122113B.SSF	585846.929	44427
721967.597	4294338.066	7561	21-Dec-13	ALEX122113B.SSF	585847.995	44428
721967.959	4294338.463	6840	21-Dec-13	ALEX122113B.SSF	585848.95	44429
721968.493	4294339.067	6750	21-Dec-13	ALEX122113B.SSF	585849.915	44430
721968.985	4294340.062	6847	21-Dec-13	ALEX122113B.SSF	585851.0229	44431
721969.45	4294340.76	6482	21-Dec-13	ALEX122113B.SSF	585851.886	44432
721970.239	4294341.338	7350	21-Dec-13	ALEX122113B.SSF	585853.031	44433
721970.788	4294341.871	7897	21-Dec-13	ALEX122113B.SSF	585853.894	44434
721971.349	4294342.651	7884	21-Dec-13	ALEX122113B.SSF	585855.049	44435
721972.006	4294343.094	8061	21-Dec-13	ALEX122113B.SSF	585855.927	44436
721972.947	4294343.63	8015	21-Dec-13	ALEX122113B.SSF	585856.9611	44437
721973.56	4294344.34	9023	21-Dec-13	ALEX122113B.SSF	585857.976	44438
721974.169	4294344.944	8436	21-Dec-13	ALEX122113B.SSF	585858.962	44439
721974.919	4294345.357	7869	21-Dec-13	ALEX122113B.SSF	585859.806	44440
721975.783	4294346.141	8177	21-Dec-13	ALEX122113B.SSF	585860.925	44441
721976.069	4294346.724	8284	21-Dec-13	ALEX122113B.SSF	585861.826	44442
721976.554	4294347.176	7771	21-Dec-13	ALEX122113B.SSF	585862.931	44443
721977.218	4294347.49	8482	21-Dec-13	ALEX122113B.SSF	585863.84	44444
721977.66	4294347.903	8420	21-Dec-13	ALEX122113B.SSF	585864.951	44445
721977.812	4294348.206	9545	21-Dec-13	ALEX122113B.SSF	585865.812	44446
721977.887	4294348.394	9316	21-Dec-13	ALEX122113B.SSF	585866.9139	44447
721977.942	4294348.435	8509	21-Dec-13	ALEX122113B.SSF	585867.858	44448
721978.135	4294348.504	7527	21-Dec-13	ALEX122113B.SSF	585868.879	44449
721978.109	4294348.499	8482	21-Dec-13	ALEX122113B.SSF	585869.8199	44450
721977.982	4294348.458	8870	21-Dec-13	ALEX122113B.SSF	585870.9351	44451
721977.959	4294348.377	8667	21-Dec-13	ALEX122113B.SSF	585871.871	44452
721977.904	4294348.596	7657	21-Dec-13	ALEX122113B.SSF	585872.923	44453

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721977.738	4294349.086	7224	21-Dec-13	ALEX122113B.SSF	585873.825	44454
721977.43	4294349.524	6456	21-Dec-13	ALEX122113B.SSF	585874.902	44455
721977.281	4294349.684	6114	21-Dec-13	ALEX122113B.SSF	585875.818	44456
721977.225	4294349.765	6898	21-Dec-13	ALEX122113B.SSF	585876.9	44457
721977.458	4294349.601	6644	21-Dec-13	ALEX122113B.SSF	585877.906	44458
721977.613	4294349.5	6851	21-Dec-13	ALEX122113B.SSF	585878.905	44459
721977.371	4294349.386	5974	21-Dec-13	ALEX122113B.SSF	585879.833	44460
721976.986	4294348.919	7445	21-Dec-13	ALEX122113B.SSF	585880.927	44461
721976.46	4294348.527	6841	21-Dec-13	ALEX122113B.SSF	585881.8311	44462
721975.524	4294348.059	6840	21-Dec-13	ALEX122113B.SSF	585882.937	44463
721974.873	4294347.461	6780	21-Dec-13	ALEX122113B.SSF	585883.879	44464
721974.337	4294346.562	8055	21-Dec-13	ALEX122113B.SSF	585884.9139	44465
721973.846	4294345.855	7773	21-Dec-13	ALEX122113B.SSF	585885.853	44466
721973.05	4294345.342	7493	21-Dec-13	ALEX122113B.SSF	585886.8879	44467
721972.289	4294344.826	7633	21-Dec-13	ALEX122113B.SSF	585887.818	44468
721971.611	4294343.962	7638	21-Dec-13	ALEX122113B.SSF	585888.921	44469
721971.056	4294343.26	8749	21-Dec-13	ALEX122113B.SSF	585889.8521	44470
721970.2	4294342.623	9957	21-Dec-13	ALEX122113B.SSF	585891.0291	44471
721969.65	4294342.101	10109	21-Dec-13	ALEX122113B.SSF	585891.813	44472
721969.016	4294341.134	9037	21-Dec-13	ALEX122113B.SSF	585893.109	44473
721968.628	4294340.79	7629	21-Dec-13	ALEX122113B.SSF	585893.8621	44474
721968.087	4294340.368	7067	21-Dec-13	ALEX122113B.SSF	585894.8719	44475
721967.643	4294339.758	7226	21-Dec-13	ALEX122113B.SSF	585895.92	44476
721967.075	4294339.19	7716	21-Dec-13	ALEX122113B.SSF	585896.925	44477
721966.425	4294338.658	8499	21-Dec-13	ALEX122113B.SSF	585897.924	44478
721965.988	4294338.052	8424	21-Dec-13	ALEX122113B.SSF	585898.9821	44479
721965.738	4294337.401	6996	21-Dec-13	ALEX122113B.SSF	585899.9871	44480
721965.43	4294336.757	6489	21-Dec-13	ALEX122113B.SSF	585901.007	44481
721964.971	4294336.167	6122	21-Dec-13	ALEX122113B.SSF	585901.964	44482
721963.907	4294335.215	7080	21-Dec-13	ALEX122113B.SSF	585903.022	44483
721963.053	4294334.65	6480	21-Dec-13	ALEX122113B.SSF	585903.854	44484
721962.504	4294334.12	6750	21-Dec-13	ALEX122113B.SSF	585904.8571	44485
721962.103	4294333.693	6727	21-Dec-13	ALEX122113B.SSF	585905.847	44486
721961.546	4294333.329	6302	21-Dec-13	ALEX122113B.SSF	585906.931	44487
721961.136	4294332.848	6585	21-Dec-13	ALEX122113B.SSF	585907.866	44488
721960.952	4294332.502	7406	21-Dec-13	ALEX122113B.SSF	585908.941	44489
721960.937	4294332.527	6471	21-Dec-13	ALEX122113B.SSF	585909.876	44490
721960.932	4294332.644	6358	21-Dec-13	ALEX122113B.SSF	585910.941	44491
721960.922	4294332.766	6929	21-Dec-13	ALEX122113B.SSF	585911.873	44492
721960.926	4294332.871	7672	21-Dec-13	ALEX122113B.SSF	585912.8831	44493
721960.921	4294332.931	8098	21-Dec-13	ALEX122113B.SSF	585913.7939	44494
721960.916	4294333.003	5864	21-Dec-13	ALEX122113B.SSF	585914.9041	44495
721960.908	4294333.075	6114	21-Dec-13	ALEX122113B.SSF	585915.874	44496
721960.893	4294333.126	5908	21-Dec-13	ALEX122113B.SSF	585916.889	44497
721960.886	4294333.187	6535	21-Dec-13	ALEX122113B.SSF	585917.88	44498
721960.874	4294333.246	5324	21-Dec-13	ALEX122113B.SSF	585918.88	44499
721960.869	4294333.286	6354	21-Dec-13	ALEX122113B.SSF	585919.9301	44500

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721960.86	4294333.308	6688	21-Dec-13	ALEX122113B.SSF	585921.062	44501
721960.861	4294333.349	6575	21-Dec-13	ALEX122113B.SSF	585922.979	44503
721960.847	4294333.371	6773	21-Dec-13	ALEX122113B.SSF	585923.926	44504
721960.846	4294333.426	7003	21-Dec-13	ALEX122113B.SSF	585925.085	44505
721960.85	4294333.466	7091	21-Dec-13	ALEX122113B.SSF	585925.925	44506
721960.83	4294333.409	7742	21-Dec-13	ALEX122113B.SSF	585926.994	44507
721960.804	4294333.425	6795	21-Dec-13	ALEX122113B.SSF	585927.934	44508
721960.775	4294333.444	6138	21-Dec-13	ALEX122113B.SSF	585928.9771	44509
721960.743	4294333.463	6382	21-Dec-13	ALEX122113B.SSF	585930.093	44510
721960.714	4294333.481	6485	21-Dec-13	ALEX122113B.SSF	585931.13	44511
721960.684	4294333.5	7051	21-Dec-13	ALEX122113B.SSF	585932.196	44512
721960.679	4294333.53	6652	21-Dec-13	ALEX122113B.SSF	585933.2271	44513
721960.738	4294333.584	6643	21-Dec-13	ALEX122113B.SSF	585934.0551	44514
721960.767	4294333.563	7121	21-Dec-13	ALEX122113B.SSF	585935.124	44515
721960.821	4294333.52	6910	21-Dec-13	ALEX122113B.SSF	585935.9189	44516
721960.549	4294333.033	7354	21-Dec-13	ALEX122113B.SSF	585937.983	44518
721960.234	4294332.824	7058	21-Dec-13	ALEX122113B.SSF	585939.037	44519
721960.002	4294332.874	7524	21-Dec-13	ALEX122113B.SSF	585939.991	44520
721959.899	4294332.91	7641	21-Dec-13	ALEX122113B.SSF	585941.059	44521
721959.866	4294332.658	7160	21-Dec-13	ALEX122113B.SSF	585941.792	44522
721959.672	4294332.07	6620	21-Dec-13	ALEX122113B.SSF	585942.994	44523
721959.346	4294331.739	6665	21-Dec-13	ALEX122113B.SSF	585943.855	44524
721958.929	4294331.232	7306	21-Dec-13	ALEX122113B.SSF	585945.12	44525
721958.635	4294331.123	7286	21-Dec-13	ALEX122113B.SSF	585945.861	44526
721958.176	4294330.918	6651	21-Dec-13	ALEX122113B.SSF	585947.061	44527
721957.866	4294330.555	6283	21-Dec-13	ALEX122113B.SSF	585947.87	44528
721957.132	4294329.999	6610	21-Dec-13	ALEX122113B.SSF	585949.062	44529
721956.628	4294329.474	6872	21-Dec-13	ALEX122113B.SSF	585949.874	44530
721956.236	4294328.756	7688	21-Dec-13	ALEX122113B.SSF	585950.902	44531
721956.076	4294328.519	8042	21-Dec-13	ALEX122113B.SSF	585951.7889	44532
721956.049	4294328.673	8280	21-Dec-13	ALEX122113B.SSF	585952.983	44533
721956.079	4294328.759	6810	21-Dec-13	ALEX122113B.SSF	585953.889	44534
721956.065	4294328.711	7282	21-Dec-13	ALEX122113B.SSF	585954.963	44535
721956.062	4294328.701	6800	21-Dec-13	ALEX122113B.SSF	585955.777	44536
721956.06	4294328.716	7340	21-Dec-13	ALEX122113B.SSF	585956.915	44537
721956.054	4294328.734	6845	21-Dec-13	ALEX122113B.SSF	585957.865	44538
721956.003	4294328.778	6511	21-Dec-13	ALEX122113B.SSF	585958.876	44539
721955.922	4294328.785	7567	21-Dec-13	ALEX122113B.SSF	585959.825	44540
721955.883	4294328.738	6512	21-Dec-13	ALEX122113B.SSF	585960.879	44541
721955.883	4294328.723	6218	21-Dec-13	ALEX122113B.SSF	585961.832	44542
721955.892	4294328.601	6804	21-Dec-13	ALEX122113B.SSF	585962.891	44543
721955.894	4294328.386	7941	21-Dec-13	ALEX122113B.SSF	585963.879	44544
721955.673	4294328.225	7385	21-Dec-13	ALEX122113B.SSF	585964.921	44545
721955.501	4294328.007	6586	21-Dec-13	ALEX122113B.SSF	585965.8879	44546
721955.499	4294327.853	6356	21-Dec-13	ALEX122113B.SSF	585966.939	44547
721955.499	4294327.895	6899	21-Dec-13	ALEX122113B.SSF	585967.877	44548
721955.485	4294327.963	6112	21-Dec-13	ALEX122113B.SSF	585968.8831	44549

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721955.449	4294328.076	6057	21-Dec-13	ALEX122113B.SSF	585969.882	44550
721955.219	4294327.958	7176	21-Dec-13	ALEX122113B.SSF	585970.983	44551
721955.051	4294327.448	6864	21-Dec-13	ALEX122113B.SSF	585971.834	44552
721954.712	4294326.898	6636	21-Dec-13	ALEX122113B.SSF	585973.079	44553
721954.378	4294326.755	7359	21-Dec-13	ALEX122113B.SSF	585973.866	44554
721954.019	4294326.281	6489	21-Dec-13	ALEX122113B.SSF	585974.902	44555
721953.653	4294326.125	6452	21-Dec-13	ALEX122113B.SSF	585975.86	44556
721952.844	4294326.31	5719	21-Dec-13	ALEX122113B.SSF	585976.869	44557
721952.104	4294326.781	5400	21-Dec-13	ALEX122113B.SSF	585977.917	44558
721951.779	4294327.476	5467	21-Dec-13	ALEX122113B.SSF	585978.9659	44559
721951.551	4294327.852	5160	21-Dec-13	ALEX122113B.SSF	585979.913	44560
721951.541	4294328.005	5812	21-Dec-13	ALEX122113B.SSF	585980.927	44561
721951.795	4294328.167	5914	21-Dec-13	ALEX122113B.SSF	585981.824	44562
721952.043	4294328.726	6169	21-Dec-13	ALEX122113B.SSF	585982.932	44563
721952.142	4294329.303	5328	21-Dec-13	ALEX122113B.SSF	585983.92	44564
721952.627	4294329.768	5284	21-Dec-13	ALEX122113B.SSF	585984.944	44565
721953.251	4294330.282	5462	21-Dec-13	ALEX122113B.SSF	585985.859	44566
721953.774	4294331.053	5442	21-Dec-13	ALEX122113B.SSF	585986.92	44567
721954.181	4294331.693	5784	21-Dec-13	ALEX122113B.SSF	585987.821	44568
721954.969	4294332.199	6366	21-Dec-13	ALEX122113B.SSF	585988.95	44569
721955.688	4294332.613	7111	21-Dec-13	ALEX122113B.SSF	585989.826	44570
721956.33	4294333.388	7327	21-Dec-13	ALEX122113B.SSF	585990.959	44571
721956.886	4294334.031	6722	21-Dec-13	ALEX122113B.SSF	585991.9091	44572
721957.733	4294334.632	5985	21-Dec-13	ALEX122113B.SSF	585992.941	44573
721958.323	4294335.359	6164	21-Dec-13	ALEX122113B.SSF	585993.864	44574
721958.665	4294336.243	5981	21-Dec-13	ALEX122113B.SSF	585994.98	44575
721959.083	4294336.733	7162	21-Dec-13	ALEX122113B.SSF	585995.8	44576
721960.013	4294337.273	7040	21-Dec-13	ALEX122113B.SSF	585996.8831	44577
721960.785	4294337.933	6320	21-Dec-13	ALEX122113B.SSF	585997.863	44578
721961.315	4294338.673	5690	21-Dec-13	ALEX122113B.SSF	585998.889	44579
721961.881	4294339.147	5878	21-Dec-13	ALEX122113B.SSF	585999.894	44580
721962.65	4294339.505	5654	21-Dec-13	ALEX122113B.SSF	586000.9449	44581
721963.145	4294340.104	5930	21-Dec-13	ALEX122113B.SSF	586001.8199	44582
721963.564	4294340.906	6005	21-Dec-13	ALEX122113B.SSF	586002.918	44583
721964.189	4294341.395	6011	21-Dec-13	ALEX122113B.SSF	586003.9189	44584
721965.254	4294341.852	5946	21-Dec-13	ALEX122113B.SSF	586004.949	44585
721965.932	4294342.336	5634	21-Dec-13	ALEX122113B.SSF	586005.7791	44586
721966.543	4294343.175	5607	21-Dec-13	ALEX122113B.SSF	586006.8929	44587
721967.087	4294343.803	5568	21-Dec-13	ALEX122113B.SSF	586007.859	44588
721967.798	4294344.282	5840	21-Dec-13	ALEX122113B.SSF	586008.8781	44589
721968.555	4294344.933	5805	21-Dec-13	ALEX122113B.SSF	586009.809	44590
721969.395	4294345.931	6407	21-Dec-13	ALEX122113B.SSF	586010.943	44591
721969.968	4294346.409	6101	21-Dec-13	ALEX122113B.SSF	586011.798	44592
721970.855	4294346.822	6625	21-Dec-13	ALEX122113B.SSF	586013.088	44593
721971.383	4294347.196	6546	21-Dec-13	ALEX122113B.SSF	586013.8361	44594
721972.048	4294347.873	7126	21-Dec-13	ALEX122113B.SSF	586014.897	44595
721972.632	4294348.414	6791	21-Dec-13	ALEX122113B.SSF	586015.917	44596

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721973.508	4294348.813	6648	21-Dec-13	ALEX122113B.SSF	586016.964	44597
721974.154	4294349.25	7224	21-Dec-13	ALEX122113B.SSF	586017.8	44598
721974.76	4294349.92	7488	21-Dec-13	ALEX122113B.SSF	586018.976	44599
721975.294	4294350.049	6852	21-Dec-13	ALEX122113B.SSF	586019.875	44600
721976.189	4294350	7503	21-Dec-13	ALEX122113B.SSF	586020.941	44601
721976.897	4294350.252	6915	21-Dec-13	ALEX122113B.SSF	586021.762	44602
721977.442	4294350.281	7098	21-Dec-13	ALEX122113B.SSF	586022.84	44603
721977.585	4294349.605	6784	21-Dec-13	ALEX122113B.SSF	586023.797	44604
721977.839	4294348.728	7126	21-Dec-13	ALEX122113B.SSF	586024.879	44605
721977.831	4294347.966	7271	21-Dec-13	ALEX122113B.SSF	586025.8199	44606
721977.582	4294347.353	7878	21-Dec-13	ALEX122113B.SSF	586026.875	44607
721977.55	4294347.061	8899	21-Dec-13	ALEX122113B.SSF	586027.75	44608
721977.614	4294346.827	8134	21-Dec-13	ALEX122113B.SSF	586028.871	44609
721977.698	4294346.785	9383	21-Dec-13	ALEX122113B.SSF	586029.748	44610
721977.759	4294346.713	8346	21-Dec-13	ALEX122113B.SSF	586030.89	44611
721977.782	4294346.682	8896	21-Dec-13	ALEX122113B.SSF	586031.8199	44612
721977.77	4294346.714	9634	21-Dec-13	ALEX122113B.SSF	586032.897	44613
721977.753	4294346.736	8138	21-Dec-13	ALEX122113B.SSF	586033.859	44614
721977.731	4294346.754	8304	21-Dec-13	ALEX122113B.SSF	586034.957	44615
721977.723	4294346.774	7716	21-Dec-13	ALEX122113B.SSF	586035.786	44616
721977.719	4294346.789	8979	21-Dec-13	ALEX122113B.SSF	586036.937	44617
721977.718	4294346.787	8334	21-Dec-13	ALEX122113B.SSF	586037.783	44618
721977.712	4294346.78	9133	21-Dec-13	ALEX122113B.SSF	586038.928	44619
721977.727	4294346.795	8793	21-Dec-13	ALEX122113B.SSF	586039.843	44620
721977.731	4294346.813	8948	21-Dec-13	ALEX122113B.SSF	586040.911	44621
721977.735	4294346.819	8417	21-Dec-13	ALEX122113B.SSF	586041.848	44622
721977.747	4294346.819	7414	21-Dec-13	ALEX122113B.SSF	586042.886	44623
721977.615	4294346.582	7959	21-Dec-13	ALEX122113C.SSF	586154.817	44624
721977.615	4294346.582	8140	21-Dec-13	ALEX122113C.SSF	586155.665	44625
721977.621	4294346.574	7345	21-Dec-13	ALEX122113C.SSF	586156.756	44626
721977.623	4294346.564	7026	21-Dec-13	ALEX122113C.SSF	586157.615	44627
721977.623	4294346.555	7246	21-Dec-13	ALEX122113C.SSF	586158.752	44628
721977.623	4294346.561	7451	21-Dec-13	ALEX122113C.SSF	586159.626	44629
721977.614	4294346.573	7023	21-Dec-13	ALEX122113C.SSF	586160.809	44630
721977.619	4294346.575	7185	21-Dec-13	ALEX122113C.SSF	586161.77	44631
721977.61	4294346.585	7256	21-Dec-13	ALEX122113C.SSF	586162.866	44632
721977.598	4294346.601	7484	21-Dec-13	ALEX122113C.SSF	586163.754	44633
721977.588	4294346.613	6971	21-Dec-13	ALEX122113C.SSF	586164.902	44634
721977.581	4294346.605	6782	21-Dec-13	ALEX122113C.SSF	586165.797	44635
721977.579	4294346.598	8295	21-Dec-13	ALEX122113C.SSF	586166.927	44636
721977.584	4294346.595	8253	21-Dec-13	ALEX122113C.SSF	586167.839	44637
721977.587	4294346.585	9263	21-Dec-13	ALEX122113C.SSF	586168.869	44638
721977.592	4294346.583	8256	21-Dec-13	ALEX122113C.SSF	586169.8	44639
721977.568	4294346.572	6174	21-Dec-13	ALEX122113C.SSF	586170.838	44640
721977.564	4294346.552	6883	21-Dec-13	ALEX122113C.SSF	586171.807	44641
721977.578	4294346.547	7241	21-Dec-13	ALEX122113C.SSF	586172.913	44642
721977.57	4294346.557	7270	21-Dec-13	ALEX122113C.SSF	586173.763	44643

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721977.557	4294346.562	6917	21-Dec-13	ALEX122113C.SSF	586174.917	44644
721977.555	4294346.547	6529	21-Dec-13	ALEX122113C.SSF	586175.819	44645
721977.552	4294346.538	7662	21-Dec-13	ALEX122113C.SSF	586176.923	44646
721977.548	4294346.55	7135	21-Dec-13	ALEX122113C.SSF	586177.836	44647
721977.532	4294346.564	7634	21-Dec-13	ALEX122113C.SSF	586178.851	44648
721977.524	4294346.558	7668	21-Dec-13	ALEX122113C.SSF	586179.814	44649
721977.529	4294346.551	7407	21-Dec-13	ALEX122113C.SSF	586180.901	44650
721977.534	4294346.548	7731	21-Dec-13	ALEX122113C.SSF	586181.769	44651
721977.543	4294346.533	8053	21-Dec-13	ALEX122113C.SSF	586182.955	44652
721977.535	4294346.522	8043	21-Dec-13	ALEX122113C.SSF	586183.792	44653
721977.537	4294346.505	7590	21-Dec-13	ALEX122113C.SSF	586184.865	44654
721977.546	4294346.499	7087	21-Dec-13	ALEX122113C.SSF	586185.694	44655
721977.541	4294346.503	7832	21-Dec-13	ALEX122113C.SSF	586186.92	44656
721977.539	4294346.506	7118	21-Dec-13	ALEX122113C.SSF	586187.742	44657
721977.536	4294346.518	7059	21-Dec-13	ALEX122113C.SSF	586188.821	44658
721977.529	4294346.528	7765	21-Dec-13	ALEX122113C.SSF	586189.704	44659
721977.534	4294346.534	6575	21-Dec-13	ALEX122113C.SSF	586191.665	44661
721977.539	4294346.522	6623	21-Dec-13	ALEX122113C.SSF	586192.814	44662
721977.539	4294346.521	6636	21-Dec-13	ALEX122113C.SSF	586193.688	44663
722004.562	4294308.614	7746	21-Dec-13	ALEX122113C.SSF	586372.953	44664
722004.53	4294308.631	8326	21-Dec-13	ALEX122113C.SSF	586373.939	44665
722004.502	4294308.648	8351	21-Dec-13	ALEX122113C.SSF	586374.842	44666
722004.487	4294308.658	8208	21-Dec-13	ALEX122113C.SSF	586375.715	44667
722004.467	4294308.667	8802	21-Dec-13	ALEX122113C.SSF	586376.817	44668
722004.449	4294308.677	8950	21-Dec-13	ALEX122113C.SSF	586377.744	44669
722004.425	4294308.7	9077	21-Dec-13	ALEX122113C.SSF	586378.8	44670
722004.407	4294308.71	7969	21-Dec-13	ALEX122113C.SSF	586379.683	44671
722004.395	4294308.721	7632	21-Dec-13	ALEX122113C.SSF	586380.814	44672
722004.384	4294308.726	7098	21-Dec-13	ALEX122113C.SSF	586381.756	44673
722004.369	4294308.721	8464	21-Dec-13	ALEX122113C.SSF	586382.763	44674
722004.364	4294308.714	7936	21-Dec-13	ALEX122113C.SSF	586383.73	44675
722004.395	4294308.71	8104	21-Dec-13	ALEX122113C.SSF	586384.822	44676
722004.374	4294308.766	8326	21-Dec-13	ALEX122113C.SSF	586385.758	44677
722004.118	4294308.607	9161	21-Dec-13	ALEX122113C.SSF	586386.828	44678
722003.728	4294308.347	7930	21-Dec-13	ALEX122113C.SSF	586387.714	44679
722003.13	4294308.038	8402	21-Dec-13	ALEX122113C.SSF	586388.814	44680
722002.712	4294307.595	8790	21-Dec-13	ALEX122113C.SSF	586389.674	44681
722002.384	4294306.888	8077	21-Dec-13	ALEX122113C.SSF	586390.805	44682
722001.999	4294306.338	7899	21-Dec-13	ALEX122113C.SSF	586391.778	44683
722001.499	4294305.717	8275	21-Dec-13	ALEX122113C.SSF	586392.785	44684
722001.175	4294305.043	8548	21-Dec-13	ALEX122113C.SSF	586393.755	44685
722000.722	4294304.317	9427	21-Dec-13	ALEX122113C.SSF	586394.838	44686
722000.16	4294303.794	7936	21-Dec-13	ALEX122113C.SSF	586395.769	44687
721999.624	4294303.066	8374	21-Dec-13	ALEX122113C.SSF	586396.841	44688
721999.085	4294302.276	9263	21-Dec-13	ALEX122113C.SSF	586397.768	44689
721998.476	4294301.574	8976	21-Dec-13	ALEX122113C.SSF	586398.789	44690
721998.08	4294300.897	7974	21-Dec-13	ALEX122113C.SSF	586399.771	44691

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721997.506	4294300.212	8833	21-Dec-13	ALEX122113C.SSF	586400.782	44692
721996.913	4294299.737	8058	21-Dec-13	ALEX122113C.SSF	586401.677	44693
721996.409	4294299.075	8974	21-Dec-13	ALEX122113C.SSF	586402.747	44694
721996.046	4294298.61	9533	21-Dec-13	ALEX122113C.SSF	586403.659	44695
721995.654	4294298.16	8533	21-Dec-13	ALEX122113C.SSF	586404.726	44696
721995.4	4294297.617	8283	21-Dec-13	ALEX122113C.SSF	586405.686	44697
721994.974	4294297.074	8190	21-Dec-13	ALEX122113C.SSF	586406.773	44698
721994.566	4294296.706	8857	21-Dec-13	ALEX122113C.SSF	586407.638	44699
721994.255	4294296.383	8754	21-Dec-13	ALEX122113C.SSF	586408.776	44700
721994.142	4294296.148	8308	21-Dec-13	ALEX122113C.SSF	586409.64	44701
721993.81	4294295.612	8887	21-Dec-13	ALEX122113C.SSF	586410.819	44702
721993.447	4294295.241	8821	21-Dec-13	ALEX122113C.SSF	586411.747	44703
721993.158	4294294.787	8205	21-Dec-13	ALEX122113C.SSF	586412.775	44704
721992.786	4294294.404	8501	21-Dec-13	ALEX122113C.SSF	586413.716	44705
721992.147	4294294.034	9235	21-Dec-13	ALEX122113C.SSF	586414.828	44706
721991.797	4294293.631	7799	21-Dec-13	ALEX122113C.SSF	586415.616	44707
721991.386	4294292.986	8429	21-Dec-13	ALEX122113C.SSF	586416.677	44708
721990.889	4294292.453	9007	21-Dec-13	ALEX122113C.SSF	586417.656	44709
721990.373	4294291.9	9151	21-Dec-13	ALEX122113C.SSF	586418.698	44710
721989.972	4294291.398	8707	21-Dec-13	ALEX122113C.SSF	586419.601	44711
721989.427	4294290.876	9047	21-Dec-13	ALEX122113C.SSF	586420.704	44712
721989.025	4294290.425	8441	21-Dec-13	ALEX122113C.SSF	586421.659	44713
721988.695	4294289.878	8200	21-Dec-13	ALEX122113C.SSF	586422.726	44714
721988.338	4294289.51	8560	21-Dec-13	ALEX122113C.SSF	586423.71	44715
721987.89	4294289.04	7630	21-Dec-13	ALEX122113C.SSF	586424.699	44716
721987.33	4294288.552	8297	21-Dec-13	ALEX122113C.SSF	586425.682	44717
721986.648	4294287.967	7984	21-Dec-13	ALEX122113C.SSF	586426.791	44718
721986.169	4294287.172	7186	21-Dec-13	ALEX122113C.SSF	586427.743	44719
721985.582	4294286.474	7556	21-Dec-13	ALEX122113C.SSF	586428.781	44720
721985.064	4294285.998	7859	21-Dec-13	ALEX122113C.SSF	586429.726	44721
721984.673	4294285.257	7875	21-Dec-13	ALEX122113C.SSF	586430.763	44722
721984.232	4294284.458	7038	21-Dec-13	ALEX122113C.SSF	586431.7	44723
721983.64	4294283.593	6949	21-Dec-13	ALEX122113C.SSF	586432.762	44724
721983.243	4294282.847	5877	21-Dec-13	ALEX122113C.SSF	586433.676	44725
721982.794	4294282.031	6171	21-Dec-13	ALEX122113C.SSF	586434.824	44726
721982.322	4294281.669	5449	21-Dec-13	ALEX122113C.SSF	586435.682	44727
721981.643	4294281.154	5832	21-Dec-13	ALEX122113C.SSF	586436.821	44728
721981.234	4294280.604	6072	21-Dec-13	ALEX122113C.SSF	586437.682	44729
721980.681	4294279.924	5967	21-Dec-13	ALEX122113C.SSF	586438.77	44730
721980.17	4294279.317	6214	21-Dec-13	ALEX122113C.SSF	586439.699	44731
721979.725	4294278.587	5495	21-Dec-13	ALEX122113C.SSF	586440.697	44732
721979.277	4294278.005	5483	21-Dec-13	ALEX122113C.SSF	586441.677	44733
721978.722	4294277.464	5229	21-Dec-13	ALEX122113C.SSF	586442.713	44734
721978.33	4294276.955	5139	21-Dec-13	ALEX122113C.SSF	586443.641	44735
721978.009	4294276.419	5688	21-Dec-13	ALEX122113C.SSF	586444.722	44736
721977.766	4294275.951	6318	21-Dec-13	ALEX122113C.SSF	586445.677	44737
721977.52	4294275.428	6139	21-Dec-13	ALEX122113C.SSF	586446.714	44738

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721977.157	4294275.134	6334	21-Dec-13	ALEX122113C.SSF	586447.644	44739
721976.729	4294274.959	6323	21-Dec-13	ALEX122113C.SSF	586448.756	44740
721976.571	4294274.905	6451	21-Dec-13	ALEX122113C.SSF	586449.681	44741
721976.566	4294274.967	6802	21-Dec-13	ALEX122113C.SSF	586450.797	44742
721976.567	4294275.009	6080	21-Dec-13	ALEX122113C.SSF	586451.716	44743
721976.528	4294275.035	6560	21-Dec-13	ALEX122113C.SSF	586452.749	44744
721976.494	4294275.043	6060	21-Dec-13	ALEX122113C.SSF	586453.678	44745
721976.363	4294274.8	6652	21-Dec-13	ALEX122113C.SSF	586454.772	44746
721976.132	4294274.254	7813	21-Dec-13	ALEX122113C.SSF	586455.667	44747
721975.886	4294273.55	7803	21-Dec-13	ALEX122113C.SSF	586456.767	44748
721975.795	4294273.253	7290	21-Dec-13	ALEX122113C.SSF	586457.672	44749
721975.667	4294273.057	6472	21-Dec-13	ALEX122113C.SSF	586458.759	44750
721975.458	4294272.861	7408	21-Dec-13	ALEX122113C.SSF	586459.634	44751
721975.187	4294272.581	6742	21-Dec-13	ALEX122113C.SSF	586460.801	44752
721974.989	4294272.456	6605	21-Dec-13	ALEX122113C.SSF	586461.717	44753
721974.87	4294272.496	7231	21-Dec-13	ALEX122113C.SSF	586462.803	44754
721974.827	4294272.503	7327	21-Dec-13	ALEX122113C.SSF	586463.691	44755
721974.814	4294272.466	7202	21-Dec-13	ALEX122113C.SSF	586464.806	44756
721974.794	4294272.452	6870	21-Dec-13	ALEX122113C.SSF	586465.685	44757
721974.773	4294272.448	6727	21-Dec-13	ALEX122113C.SSF	586466.753	44758
721974.77	4294272.431	6602	21-Dec-13	ALEX122113C.SSF	586467.68	44759
721974.752	4294272.413	8220	21-Dec-13	ALEX122113C.SSF	586468.81	44760
721974.74	4294272.407	8235	21-Dec-13	ALEX122113C.SSF	586469.671	44761
721974.798	4294272.205	7818	21-Dec-13	ALEX122113C.SSF	586470.782	44762
721974.794	4294272.037	6604	21-Dec-13	ALEX122113C.SSF	586471.699	44763
721974.73	4294272.035	6631	21-Dec-13	ALEX122113C.SSF	586472.8	44764
721974.716	4294272.087	7087	21-Dec-13	ALEX122113C.SSF	586473.746	44765
721974.775	4294272.059	7382	21-Dec-13	ALEX122113C.SSF	586474.8	44766
721974.781	4294272.082	7155	21-Dec-13	ALEX122113C.SSF	586475.688	44767
721974.744	4294272.187	6288	21-Dec-13	ALEX122113C.SSF	586476.723	44768
721974.722	4294272.241	6852	21-Dec-13	ALEX122113C.SSF	586477.696	44769
721974.692	4294272.278	7293	21-Dec-13	ALEX122113C.SSF	586478.772	44770
721974.666	4294272.326	6443	21-Dec-13	ALEX122113C.SSF	586479.652	44771
721974.645	4294272.348	6451	21-Dec-13	ALEX122113C.SSF	586480.756	44772
721974.593	4294272.339	7372	21-Dec-13	ALEX122113C.SSF	586481.694	44773
721974.522	4294272.264	6373	21-Dec-13	ALEX122113C.SSF	586482.735	44774
721974.432	4294272.089	6813	21-Dec-13	ALEX122113C.SSF	586483.675	44775
721974.327	4294271.802	7103	21-Dec-13	ALEX122113C.SSF	586484.704	44776
721974.168	4294271.539	7505	21-Dec-13	ALEX122113C.SSF	586485.653	44777
721973.876	4294271.097	7936	21-Dec-13	ALEX122113C.SSF	586486.775	44778
721973.531	4294270.691	7204	21-Dec-13	ALEX122113C.SSF	586487.709	44779
721973.245	4294270.572	7171	21-Dec-13	ALEX122113C.SSF	586488.701	44780
721973.296	4294270.588	7102	21-Dec-13	ALEX122113C.SSF	586489.617	44781
721973.567	4294270.361	7325	21-Dec-13	ALEX122113C.SSF	586490.76	44782
721973.908	4294270.083	6361	21-Dec-13	ALEX122113C.SSF	586491.676	44783
721974.394	4294269.743	7110	21-Dec-13	ALEX122113C.SSF	586492.715	44784
721974.565	4294269.494	7057	21-Dec-13	ALEX122113C.SSF	586493.652	44785

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721974.55	4294269.542	7104	21-Dec-13	ALEX122113C.SSF	586494.777	44786
721974.497	4294269.706	6936	21-Dec-13	ALEX122113C.SSF	586495.718	44787
721974.43	4294269.734	7704	21-Dec-13	ALEX122113C.SSF	586496.693	44788
721974.363	4294269.722	6366	21-Dec-13	ALEX122113C.SSF	586497.632	44789
721974.295	4294269.747	6871	21-Dec-13	ALEX122113C.SSF	586498.76	44790
721974.243	4294269.771	7537	21-Dec-13	ALEX122113C.SSF	586499.625	44791
721974.138	4294269.783	6384	21-Dec-13	ALEX122113C.SSF	586500.78	44792
721974.126	4294269.845	5604	21-Dec-13	ALEX122113C.SSF	586501.642	44793
721974.221	4294270	6092	21-Dec-13	ALEX122113C.SSF	586502.949	44794
721974.23	4294270.039	7013	21-Dec-13	ALEX122113C.SSF	586503.716	44795
721974.25	4294270.062	6853	21-Dec-13	ALEX122113C.SSF	586504.737	44796
721974.24	4294270.057	6423	21-Dec-13	ALEX122113C.SSF	586505.675	44797
721974.21	4294270.043	6705	21-Dec-13	ALEX122113C.SSF	586506.774	44798
721974.123	4294270.01	6266	21-Dec-13	ALEX122113C.SSF	586507.696	44799
721974.002	4294269.969	6576	21-Dec-13	ALEX122113C.SSF	586508.741	44800
721973.937	4294269.977	6414	21-Dec-13	ALEX122113C.SSF	586509.678	44801
721973.904	4294269.99	6553	21-Dec-13	ALEX122113C.SSF	586510.748	44802
721973.905	4294269.97	7578	21-Dec-13	ALEX122113C.SSF	586511.667	44803
721973.898	4294269.957	6814	21-Dec-13	ALEX122113C.SSF	586512.806	44804
721973.86	4294270.008	6005	21-Dec-13	ALEX122113C.SSF	586513.741	44805
721973.851	4294270.056	6175	21-Dec-13	ALEX122113C.SSF	586514.788	44806
721973.854	4294270.058	6884	21-Dec-13	ALEX122113C.SSF	586515.648	44807
721973.87	4294270.06	6641	21-Dec-13	ALEX122113C.SSF	586516.685	44808
721973.881	4294269.989	6430	21-Dec-13	ALEX122113C.SSF	586517.623	44809
721973.868	4294269.89	6206	21-Dec-13	ALEX122113C.SSF	586518.666	44810
721973.869	4294269.868	7731	21-Dec-13	ALEX122113C.SSF	586519.606	44811
721973.888	4294269.868	7422	21-Dec-13	ALEX122113C.SSF	586520.703	44812
721973.901	4294269.862	7435	21-Dec-13	ALEX122113C.SSF	586521.599	44813
721973.912	4294269.829	6149	21-Dec-13	ALEX122113C.SSF	586522.721	44814
721973.931	4294269.793	6277	21-Dec-13	ALEX122113C.SSF	586523.656	44815
721973.917	4294269.804	6669	21-Dec-13	ALEX122113C.SSF	586524.734	44816
721973.899	4294269.91	7127	21-Dec-13	ALEX122113C.SSF	586525.648	44817
721973.992	4294269.934	7031	21-Dec-13	ALEX122113C.SSF	586526.705	44818
721974.024	4294269.924	6528	21-Dec-13	ALEX122113C.SSF	586527.654	44819
721973.978	4294269.936	7122	21-Dec-13	ALEX122113C.SSF	586528.688	44820
721973.962	4294269.926	6280	21-Dec-13	ALEX122113C.SSF	586529.631	44821
721973.942	4294269.997	6580	21-Dec-13	ALEX122113C.SSF	586530.649	44822
721973.909	4294270.096	6985	21-Dec-13	ALEX122113C.SSF	586531.572	44823
721973.891	4294270.159	7356	21-Dec-13	ALEX122113C.SSF	586532.694	44824
721973.907	4294270.188	6939	21-Dec-13	ALEX122113C.SSF	586533.619	44825
721973.917	4294270.192	7224	21-Dec-13	ALEX122113C.SSF	586534.659	44826
721973.891	4294270.122	7236	21-Dec-13	ALEX122113C.SSF	586535.656	44827
721973.838	4294270.019	6879	21-Dec-13	ALEX122113C.SSF	586536.814	44828
721973.836	4294270.028	6609	21-Dec-13	ALEX122113C.SSF	586537.641	44829
721973.914	4294269.967	5853	21-Dec-13	ALEX122113C.SSF	586538.793	44830
721973.955	4294269.855	6472	21-Dec-13	ALEX122113C.SSF	586539.712	44831
721973.956	4294269.835	7198	21-Dec-13	ALEX122113C.SSF	586540.774	44832

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721974.006	4294269.835	7019	21-Dec-13	ALEX122113C.SSF	586541.702	44833
721974.027	4294269.859	7215	21-Dec-13	ALEX122113C.SSF	586542.775	44834
721974.021	4294269.868	7323	21-Dec-13	ALEX122113C.SSF	586543.626	44835
721974.008	4294269.812	7620	21-Dec-13	ALEX122113C.SSF	586544.755	44836
721973.992	4294269.782	7245	21-Dec-13	ALEX122113C.SSF	586545.553	44837
721973.957	4294269.814	6071	21-Dec-13	ALEX122113C.SSF	586546.694	44838
721973.956	4294269.846	6948	21-Dec-13	ALEX122113C.SSF	586547.598	44839
721973.954	4294269.92	6807	21-Dec-13	ALEX122113C.SSF	586548.674	44840
721973.972	4294269.908	7071	21-Dec-13	ALEX122113C.SSF	586549.612	44841
721973.996	4294269.853	6268	21-Dec-13	ALEX122113C.SSF	586550.767	44842
721974.026	4294269.813	7087	21-Dec-13	ALEX122113C.SSF	586551.62	44843
721974.06	4294269.76	6901	21-Dec-13	ALEX122113C.SSF	586552.772	44844
721974.03	4294269.779	6855	21-Dec-13	ALEX122113C.SSF	586553.616	44845
721973.992	4294269.804	8133	21-Dec-13	ALEX122113C.SSF	586554.783	44846
721974.031	4294269.748	7583	21-Dec-13	ALEX122113C.SSF	586555.65	44847
721974.108	4294269.68	7326	21-Dec-13	ALEX122113C.SSF	586556.655	44848
721973.977	4294269.694	7381	21-Dec-13	ALEX122113C.SSF	586557.654	44849
721973.731	4294269.858	6975	21-Dec-13	ALEX122113C.SSF	586558.718	44850
721973.791	4294270.197	6753	21-Dec-13	ALEX122113C.SSF	586559.611	44851
721973.762	4294270.664	6278	21-Dec-13	ALEX122113C.SSF	586560.715	44852
721973.603	4294270.84	6099	21-Dec-13	ALEX122113C.SSF	586561.572	44853
721973.632	4294270.817	6685	21-Dec-13	ALEX122113C.SSF	586562.676	44854
721973.775	4294270.784	6501	21-Dec-13	ALEX122113C.SSF	586563.625	44855
721973.905	4294270.907	7325	21-Dec-13	ALEX122113C.SSF	586564.694	44856
721973.702	4294270.96	7231	21-Dec-13	ALEX122113C.SSF	586565.621	44857
721972.95	4294270.782	6967	21-Dec-13	ALEX122113C.SSF	586566.723	44858
721972.441	4294270.68	6423	21-Dec-13	ALEX122113C.SSF	586567.672	44859
721972.493	4294270.6	5153	21-Dec-13	ALEX122113C.SSF	586568.71	44860
721972.754	4294270.439	5523	21-Dec-13	ALEX122113C.SSF	586569.678	44861
721972.843	4294270.408	6107	21-Dec-13	ALEX122113C.SSF	586570.768	44862
721972.955	4294270.392	7046	21-Dec-13	ALEX122113C.SSF	586571.7	44863
721973.019	4294270.182	6572	21-Dec-13	ALEX122113C.SSF	586572.762	44864
721972.92	4294270.076	7073	21-Dec-13	ALEX122113C.SSF	586573.682	44865
721972.677	4294270.33	6088	21-Dec-13	ALEX122113C.SSF	586574.702	44866
721972.378	4294270.649	6772	21-Dec-13	ALEX122113C.SSF	586575.676	44867
721972.279	4294270.675	6403	21-Dec-13	ALEX122113C.SSF	586576.712	44868
721972.369	4294270.554	5800	21-Dec-13	ALEX122113C.SSF	586577.679	44869
721972.439	4294270.526	6277	21-Dec-13	ALEX122113C.SSF	586578.74	44870
721972.451	4294270.581	6369	21-Dec-13	ALEX122113C.SSF	586579.626	44871
721972.509	4294270.636	6272	21-Dec-13	ALEX122113C.SSF	586580.714	44872
721972.503	4294270.7	6728	21-Dec-13	ALEX122113C.SSF	586581.621	44873
721972.443	4294270.748	6932	21-Dec-13	ALEX122113C.SSF	586582.693	44874
721972.461	4294270.759	6833	21-Dec-13	ALEX122113C.SSF	586583.649	44875
721972.609	4294270.816	6838	21-Dec-13	ALEX122113C.SSF	586584.669	44876
721972.746	4294270.865	8249	21-Dec-13	ALEX122113C.SSF	586585.664	44877
721972.66	4294270.769	6832	21-Dec-13	ALEX122113C.SSF	586586.742	44878
721972.522	4294270.616	6808	21-Dec-13	ALEX122113C.SSF	586587.668	44879

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721972.462	4294270.585	6502	21-Dec-13	ALEX122113C.SSF	586588.718	44880
721972.459	4294270.613	7625	21-Dec-13	ALEX122113C.SSF	586589.645	44881
721972.477	4294270.645	7696	21-Dec-13	ALEX122113C.SSF	586590.659	44882
721972.502	4294270.664	6334	21-Dec-13	ALEX122113C.SSF	586591.592	44883
721972.521	4294270.661	7193	21-Dec-13	ALEX122113C.SSF	586592.626	44884
721972.535	4294270.664	6628	21-Dec-13	ALEX122113C.SSF	586593.641	44885
721972.547	4294270.676	7327	21-Dec-13	ALEX122113C.SSF	586594.667	44886
721972.555	4294270.696	6481	21-Dec-13	ALEX122113C.SSF	586595.658	44887
721972.57	4294270.709	7140	21-Dec-13	ALEX122113C.SSF	586596.684	44888
721972.597	4294270.674	6435	21-Dec-13	ALEX122113C.SSF	586597.613	44889
721972.605	4294270.553	6858	21-Dec-13	ALEX122113C.SSF	586598.77	44890
721972.579	4294270.485	6664	21-Dec-13	ALEX122113C.SSF	586599.639	44891
721972.551	4294270.56	6556	21-Dec-13	ALEX122113C.SSF	586600.763	44892
721972.798	4294270.846	5599	21-Dec-13	ALEX122113C.SSF	586601.615	44893
721973.434	4294271.492	5744	21-Dec-13	ALEX122113C.SSF	586602.748	44894
721973.926	4294272.223	5946	21-Dec-13	ALEX122113C.SSF	586603.684	44895
721974.34	4294272.958	5980	21-Dec-13	ALEX122113C.SSF	586604.717	44896
721974.748	4294273.443	6772	21-Dec-13	ALEX122113C.SSF	586605.658	44897
721975.36	4294274.173	7783	21-Dec-13	ALEX122113C.SSF	586606.692	44898
721975.97	4294275.002	6685	21-Dec-13	ALEX122113C.SSF	586607.656	44899
721976.543	4294275.68	6051	21-Dec-13	ALEX122113C.SSF	586608.696	44900
721976.832	4294276.077	6994	21-Dec-13	ALEX122113C.SSF	586609.663	44901
721976.905	4294276.243	6518	21-Dec-13	ALEX122113C.SSF	586610.673	44902
721977.004	4294276.339	5864	21-Dec-13	ALEX122113C.SSF	586611.621	44903
721977.359	4294276.739	6519	21-Dec-13	ALEX122113C.SSF	586612.719	44904
721977.808	4294277.194	5924	21-Dec-13	ALEX122113C.SSF	586613.641	44905
721978.553	4294277.722	5357	21-Dec-13	ALEX122113C.SSF	586614.703	44906
721979.321	4294278.419	5503	21-Dec-13	ALEX122113C.SSF	586615.661	44907
721979.892	4294279.295	5720	21-Dec-13	ALEX122113C.SSF	586616.698	44908
721980.407	4294279.944	6015	21-Dec-13	ALEX122113C.SSF	586617.603	44909
721981.292	4294280.679	6121	21-Dec-13	ALEX122113C.SSF	586618.734	44910
721981.864	4294281.383	5595	21-Dec-13	ALEX122113C.SSF	586619.578	44911
721982.468	4294282.408	5839	21-Dec-13	ALEX122113C.SSF	586620.686	44912
721983	4294283.053	5625	21-Dec-13	ALEX122113C.SSF	586621.538	44913
721983.805	4294283.831	5339	21-Dec-13	ALEX122113C.SSF	586622.623	44914
721984.375	4294284.538	5523	21-Dec-13	ALEX122113C.SSF	586623.594	44915
721984.987	4294285.245	7246	21-Dec-13	ALEX122113C.SSF	586624.664	44916
721985.688	4294285.978	9041	21-Dec-13	ALEX122113C.SSF	586625.572	44917
721986.316	4294286.795	8980	21-Dec-13	ALEX122113C.SSF	586626.68	44918
721986.737	4294287.321	8335	21-Dec-13	ALEX122113C.SSF	586627.589	44919
721987.441	4294288.194	8533	21-Dec-13	ALEX122113C.SSF	586628.662	44920
721987.919	4294288.939	8313	21-Dec-13	ALEX122113C.SSF	586629.619	44921
721988.283	4294289.391	8408	21-Dec-13	ALEX122113C.SSF	586630.685	44922
721988.741	4294289.891	8492	21-Dec-13	ALEX122113C.SSF	586631.585	44923
721989.52	4294290.791	7823	21-Dec-13	ALEX122113C.SSF	586632.717	44924
721990.22	4294291.415	8345	21-Dec-13	ALEX122113C.SSF	586633.638	44925
721990.753	4294292.043	8446	21-Dec-13	ALEX122113C.SSF	586634.67	44926

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721991.213	4294292.655	8981	21-Dec-13	ALEX122113C.SSF	586635.595	44927
721991.861	4294293.347	8425	21-Dec-13	ALEX122113C.SSF	586636.692	44928
721992.186	4294293.725	8196	21-Dec-13	ALEX122113C.SSF	586637.637	44929
721992.252	4294293.846	7089	21-Dec-13	ALEX122113C.SSF	586638.715	44930
721992.218	4294293.775	8372	21-Dec-13	ALEX122113C.SSF	586639.591	44931
721992.166	4294293.634	6953	21-Dec-13	ALEX122113C.SSF	586640.744	44932
721991.964	4294293.528	7468	21-Dec-13	ALEX122113C.SSF	586641.663	44933
721991.704	4294293.559	7267	21-Dec-13	ALEX122113C.SSF	586642.682	44934
721991.769	4294293.757	7696	21-Dec-13	ALEX122113C.SSF	586643.661	44935
721992.159	4294294.159	8074	21-Dec-13	ALEX122113C.SSF	586644.685	44936
721992.652	4294294.628	8168	21-Dec-13	ALEX122113C.SSF	586645.541	44937
721993.373	4294295.185	8882	21-Dec-13	ALEX122113C.SSF	586646.591	44938
721993.993	4294295.805	8610	21-Dec-13	ALEX122113C.SSF	586647.621	44939
721994.532	4294296.49	8302	21-Dec-13	ALEX122113C.SSF	586648.652	44940
721994.974	4294296.79	8315	21-Dec-13	ALEX122113C.SSF	586649.596	44941
721995.24	4294296.806	8049	21-Dec-13	ALEX122113C.SSF	586650.649	44942
721995.073	4294296.954	7832	21-Dec-13	ALEX122113C.SSF	586651.582	44943
721994.856	4294297.221	8348	21-Dec-13	ALEX122113C.SSF	586652.63	44944
721994.966	4294297.316	7877	21-Dec-13	ALEX122113C.SSF	586653.551	44945
721995.367	4294297.536	7609	21-Dec-13	ALEX122113C.SSF	586654.664	44946
721995.89	4294298.201	7812	21-Dec-13	ALEX122113C.SSF	586655.643	44947
721996.437	4294299.034	7713	21-Dec-13	ALEX122113C.SSF	586656.682	44948
721996.943	4294299.551	8048	21-Dec-13	ALEX122113C.SSF	586657.615	44949
721997.609	4294300.287	8762	21-Dec-13	ALEX122113C.SSF	586658.7	44950
721998.049	4294300.998	8490	21-Dec-13	ALEX122113C.SSF	586659.649	44951
721998.518	4294301.517	8122	21-Dec-13	ALEX122113C.SSF	586660.673	44952
721999.104	4294302.125	8630	21-Dec-13	ALEX122113C.SSF	586661.612	44953
721999.79	4294302.978	8397	21-Dec-13	ALEX122113C.SSF	586662.639	44954
722000.405	4294303.612	8069	21-Dec-13	ALEX122113C.SSF	586663.632	44955
722000.992	4294304.231	8647	21-Dec-13	ALEX122113C.SSF	586664.671	44956
722001.427	4294305.095	8551	21-Dec-13	ALEX122113C.SSF	586665.67	44957
722001.764	4294305.847	8947	21-Dec-13	ALEX122113C.SSF	586666.682	44958
722002.183	4294306.091	7517	21-Dec-13	ALEX122113C.SSF	586667.614	44959
722002.857	4294306.337	8269	21-Dec-13	ALEX122113C.SSF	586668.756	44960
722003.275	4294306.971	8277	21-Dec-13	ALEX122113C.SSF	586669.682	44961
722003.667	4294307.74	8849	21-Dec-13	ALEX122113C.SSF	586670.645	44962
722004.124	4294308.309	8662	21-Dec-13	ALEX122113C.SSF	586671.569	44963
722004.7	4294308.626	8315	21-Dec-13	ALEX122113C.SSF	586672.698	44964
722005.121	4294308.442	8528	21-Dec-13	ALEX122113C.SSF	586673.573	44965
722005.624	4294307.866	8372	21-Dec-13	ALEX122113C.SSF	586674.617	44966
722005.933	4294307.448	8213	21-Dec-13	ALEX122113C.SSF	586675.551	44967
722006.065	4294307.288	8053	21-Dec-13	ALEX122113C.SSF	586676.702	44968
722006.077	4294307.178	7893	21-Dec-13	ALEX122113C.SSF	586677.552	44969
722006.033	4294306.959	7643	21-Dec-13	ALEX122113C.SSF	586678.656	44970
722006.031	4294306.887	7400	21-Dec-13	ALEX122113C.SSF	586679.566	44971
722006.075	4294306.926	7970	21-Dec-13	ALEX122113C.SSF	586680.667	44972
722006.18	4294306.859	7572	21-Dec-13	ALEX122113C.SSF	586681.592	44973

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722006.352	4294306.709	7143	21-Dec-13	ALEX122113C.SSF	586682.668	44974
722006.443	4294306.721	8415	21-Dec-13	ALEX122113C.SSF	586683.607	44975
722006.325	4294306.873	7983	21-Dec-13	ALEX122113C.SSF	586684.729	44976
722006.257	4294306.982	8806	21-Dec-13	ALEX122113C.SSF	586685.583	44977
722006.543	4294307.008	9341	21-Dec-13	ALEX122113C.SSF	586686.734	44978
722006.795	4294306.941	8995	21-Dec-13	ALEX122113C.SSF	586687.586	44979
722006.812	4294306.865	7949	21-Dec-13	ALEX122113C.SSF	586688.668	44980
722006.707	4294306.879	8257	21-Dec-13	ALEX122113C.SSF	586689.638	44981
722006.647	4294306.933	7344	21-Dec-13	ALEX122113C.SSF	586690.667	44982
722006.587	4294306.97	6726	21-Dec-13	ALEX122113C.SSF	586691.611	44983
722006.507	4294307.032	7621	21-Dec-13	ALEX122113C.SSF	586692.657	44984
722006.459	4294307.066	7515	21-Dec-13	ALEX122113C.SSF	586693.56	44985
722006.456	4294307.069	7998	21-Dec-13	ALEX122113C.SSF	586694.642	44986
722006.329	4294307.072	8419	21-Dec-13	ALEX122113C.SSF	586695.666	44987
722006.206	4294306.857	8195	21-Dec-13	ALEX122113C.SSF	586696.715	44988
722006.477	4294306.451	8348	21-Dec-13	ALEX122113C.SSF	586697.56	44989
722006.858	4294305.986	8447	21-Dec-13	ALEX122113C.SSF	586698.702	44990
722006.99	4294305.79	7751	21-Dec-13	ALEX122113C.SSF	586699.586	44991
722007.425	4294305.552	7968	21-Dec-13	ALEX122113C.SSF	586700.686	44992
722007.69	4294305.429	7332	21-Dec-13	ALEX122113C.SSF	586701.572	44993
722007.541	4294305.262	8163	21-Dec-13	ALEX122113C.SSF	586702.699	44994
722007.394	4294305.122	7530	21-Dec-13	ALEX122113C.SSF	586703.557	44995
722007.405	4294305.14	7282	21-Dec-13	ALEX122113C.SSF	586704.701	44996
722007.474	4294305.242	7880	21-Dec-13	ALEX122113C.SSF	586705.652	44997
722007.526	4294305.32	8270	21-Dec-13	ALEX122113C.SSF	586706.693	44998
722007.544	4294305.378	8547	21-Dec-13	ALEX122113C.SSF	586707.623	44999
722007.555	4294305.459	7267	21-Dec-13	ALEX122113C.SSF	586708.673	45000
722007.482	4294305.523	7786	21-Dec-13	ALEX122113C.SSF	586709.63	45001
722007.386	4294305.547	8186	21-Dec-13	ALEX122113C.SSF	586710.68	45002
722007.413	4294305.574	7656	21-Dec-13	ALEX122113C.SSF	586711.641	45003
722007.457	4294305.627	7164	21-Dec-13	ALEX122113C.SSF	586712.683	45004
722007.475	4294305.657	7641	21-Dec-13	ALEX122113C.SSF	586713.639	45005
722007.538	4294305.545	7190	21-Dec-13	ALEX122113C.SSF	586714.672	45006
722007.648	4294305.42	9057	21-Dec-13	ALEX122113C.SSF	586715.56	45007
722007.789	4294305.402	8054	21-Dec-13	ALEX122113C.SSF	586716.626	45008
722007.829	4294305.425	8733	21-Dec-13	ALEX122113C.SSF	586717.561	45009
722007.782	4294305.445	8003	21-Dec-13	ALEX122113C.SSF	586718.633	45010
722007.733	4294305.461	8240	21-Dec-13	ALEX122113C.SSF	586719.575	45011
722007.711	4294305.465	7910	21-Dec-13	ALEX122113C.SSF	586720.666	45012
722007.699	4294305.503	8607	21-Dec-13	ALEX122113C.SSF	586721.619	45013
722007.693	4294305.566	7852	21-Dec-13	ALEX122113C.SSF	586722.677	45014
722007.662	4294305.589	7633	21-Dec-13	ALEX122113C.SSF	586723.596	45015
722007.644	4294305.624	8448	21-Dec-13	ALEX122113C.SSF	586724.634	45016
722007.595	4294305.656	8082	21-Dec-13	ALEX122113C.SSF	586725.555	45017
722007.457	4294305.639	8440	21-Dec-13	ALEX122113C.SSF	586726.628	45018
722007.476	4294305.784	8980	21-Dec-13	ALEX122113C.SSF	586727.555	45019
722007.651	4294306.13	8365	21-Dec-13	ALEX122113C.SSF	586728.692	45020

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722007.716	4294306.219	8121	21-Dec-13	ALEX122113C.SSF	586729.613	45021
722007.721	4294306.13	8150	21-Dec-13	ALEX122113C.SSF	586730.646	45022
722007.707	4294306.049	8067	21-Dec-13	ALEX122113C.SSF	586731.577	45023
722007.664	4294306.01	7357	21-Dec-13	ALEX122113C.SSF	586732.607	45024
722007.624	4294305.968	8499	21-Dec-13	ALEX122113C.SSF	586733.605	45025
722007.6	4294305.969	8964	21-Dec-13	ALEX122113C.SSF	586734.633	45026
722007.275	4294306.099	8421	21-Dec-13	ALEX122113C.SSF	586735.576	45027
722006.479	4294306.382	8465	21-Dec-13	ALEX122113C.SSF	586736.621	45028
722005.863	4294306.728	7936	21-Dec-13	ALEX122113C.SSF	586737.559	45029
722005.631	4294306.978	8224	21-Dec-13	ALEX122113C.SSF	586738.689	45030
722005.695	4294306.904	7996	21-Dec-13	ALEX122113C.SSF	586739.617	45031
722005.788	4294306.828	8809	21-Dec-13	ALEX122113C.SSF	586740.651	45032
722005.804	4294306.733	8532	21-Dec-13	ALEX122113C.SSF	586741.596	45033
722005.648	4294306.429	8283	21-Dec-13	ALEX122113C.SSF	586742.638	45034
722005.357	4294306.047	8970	21-Dec-13	ALEX122113C.SSF	586743.589	45035
722004.958	4294305.398	8782	21-Dec-13	ALEX122113C.SSF	586744.64	45036
722004.545	4294304.716	8195	21-Dec-13	ALEX122113C.SSF	586745.547	45037
722003.973	4294304.057	9129	21-Dec-13	ALEX122113C.SSF	586746.672	45038
722003.502	4294303.421	7952	21-Dec-13	ALEX122113C.SSF	586747.551	45039
722002.951	4294302.454	9098	21-Dec-13	ALEX122113C.SSF	586748.693	45040
722002.56	4294301.906	8694	21-Dec-13	ALEX122113C.SSF	586749.562	45041
722002.027	4294301.11	8593	21-Dec-13	ALEX122113C.SSF	586750.664	45042
722001.603	4294300.418	8508	21-Dec-13	ALEX122113C.SSF	586751.609	45043
722001.155	4294299.897	8097	21-Dec-13	ALEX122113C.SSF	586752.674	45044
722000.789	4294299.357	8504	21-Dec-13	ALEX122113C.SSF	586753.557	45045
722000.3	4294298.568	8756	21-Dec-13	ALEX122113C.SSF	586754.68	45046
721999.89	4294298.093	8699	21-Dec-13	ALEX122113C.SSF	586755.528	45047
721999.425	4294297.457	7844	21-Dec-13	ALEX122113C.SSF	586756.575	45048
721999.022	4294296.805	8201	21-Dec-13	ALEX122113C.SSF	586757.541	45049
721998.528	4294296.245	8800	21-Dec-13	ALEX122113C.SSF	586758.576	45050
721998.115	4294295.727	8380	21-Dec-13	ALEX122113C.SSF	586759.497	45051
721997.631	4294294.957	8965	21-Dec-13	ALEX122113C.SSF	586760.655	45052
721997.182	4294294.454	9351	21-Dec-13	ALEX122113C.SSF	586761.518	45053
721996.568	4294293.821	8037	21-Dec-13	ALEX122113C.SSF	586762.66	45054
721996.199	4294293.244	8339	21-Dec-13	ALEX122113C.SSF	586763.558	45055
721995.728	4294292.547	9075	21-Dec-13	ALEX122113C.SSF	586764.609	45056
721995.206	4294291.851	8898	21-Dec-13	ALEX122113C.SSF	586765.541	45057
721994.643	4294290.93	8734	21-Dec-13	ALEX122113C.SSF	586766.666	45058
721994.283	4294290.418	8543	21-Dec-13	ALEX122113C.SSF	586767.539	45059
721993.874	4294289.946	8706	21-Dec-13	ALEX122113C.SSF	586768.678	45060
721993.495	4294289.599	7786	21-Dec-13	ALEX122113C.SSF	586769.517	45061
721992.849	4294289	7856	21-Dec-13	ALEX122113C.SSF	586770.66	45062
721992.38	4294288.434	7544	21-Dec-13	ALEX122113C.SSF	586771.557	45063
721991.908	4294287.795	8006	21-Dec-13	ALEX122113C.SSF	586772.694	45064
721991.623	4294287.342	8661	21-Dec-13	ALEX122113C.SSF	586773.623	45065
721991.235	4294286.879	8885	21-Dec-13	ALEX122113C.SSF	586774.652	45066
721990.765	4294286.266	8401	21-Dec-13	ALEX122113C.SSF	586775.573	45067

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
721990.216	4294285.357	8040	21-Dec-13	ALEX122113C.SSF	586776.632	45068
721989.691	4294284.727	7920	21-Dec-13	ALEX122113C.SSF	586777.552	45069
721989.062	4294284.062	8130	21-Dec-13	ALEX122113C.SSF	586778.614	45070
721988.568	4294283.186	6022	21-Dec-13	ALEX122113C.SSF	586779.582	45071
721988.061	4294282.274	6185	21-Dec-13	ALEX122113C.SSF	586780.574	45072
721987.449	4294281.606	6376	21-Dec-13	ALEX122113C.SSF	586781.525	45073
721986.704	4294280.95	6124	21-Dec-13	ALEX122113C.SSF	586782.553	45074
721986.173	4294280.229	5896	21-Dec-13	ALEX122113C.SSF	586783.479	45075
721985.698	4294279.269	5286	21-Dec-13	ALEX122113C.SSF	586784.612	45076
721985.236	4294278.689	5696	21-Dec-13	ALEX122113C.SSF	586785.484	45077
721984.566	4294277.94	5814	21-Dec-13	ALEX122113C.SSF	586786.61	45078
721984.155	4294277.113	5820	21-Dec-13	ALEX122113C.SSF	586787.566	45079
721983.814	4294276.304	5118	21-Dec-13	ALEX122113C.SSF	586788.616	45080
721983.287	4294275.919	5557	21-Dec-13	ALEX122113C.SSF	586789.554	45081
721982.543	4294275.665	5638	21-Dec-13	ALEX122113C.SSF	586790.58	45082
721982.059	4294275.258	5916	21-Dec-13	ALEX122113C.SSF	586791.515	45083
721981.642	4294274.787	5945	21-Dec-13	ALEX122113C.SSF	586792.547	45084
721981.117	4294274.552	5947	21-Dec-13	ALEX122113C.SSF	586793.508	45085
721980.535	4294274.172	6610	21-Dec-13	ALEX122113C.SSF	586794.557	45086
721980.119	4294273.66	6602	21-Dec-13	ALEX122113C.SSF	586795.547	45087
721979.796	4294273.12	6540	21-Dec-13	ALEX122113C.SSF	586796.609	45088
721979.57	4294272.582	7065	21-Dec-13	ALEX122113C.SSF	586797.557	45089
721979.35	4294272.076	6506	21-Dec-13	ALEX122113C.SSF	586798.712	45090
721979.192	4294271.775	7626	21-Dec-13	ALEX122113C.SSF	586799.545	45091
721978.809	4294271.247	7036	21-Dec-13	ALEX122113C.SSF	586800.675	45092
721978.368	4294270.826	7549	21-Dec-13	ALEX122113C.SSF	586801.527	45093
721977.846	4294270.267	7017	21-Dec-13	ALEX122113C.SSF	586802.714	45094
721977.499	4294270.021	6554	21-Dec-13	ALEX122113C.SSF	586803.525	45095
721977.05	4294269.745	7308	21-Dec-13	ALEX122113C.SSF	586804.676	45096
721976.901	4294269.443	6237	21-Dec-13	ALEX122113C.SSF	586805.475	45097
721976.792	4294269.05	6209	21-Dec-13	ALEX122113C.SSF	586806.617	45098
721976.59	4294269.183	7072	21-Dec-13	ALEX122113C.SSF	586807.55	45099
721976.284	4294269.629	6148	21-Dec-13	ALEX122113C.SSF	586808.612	45100
721976.132	4294269.818	5965	21-Dec-13	ALEX122113C.SSF	586809.457	45101
721975.792	4294270.089	6093	21-Dec-13	ALEX122113C.SSF	586810.685	45102
721975.243	4294270.475	6383	21-Dec-13	ALEX122113C.SSF	586811.621	45103
721974.743	4294270.657	6485	21-Dec-13	ALEX122113C.SSF	586812.666	45104
721974.631	4294270.59	6541	21-Dec-13	ALEX122113C.SSF	586813.569	45105
721974.54	4294270.667	5918	21-Dec-13	ALEX122113C.SSF	586814.62	45106
721974.258	4294270.976	6509	21-Dec-13	ALEX122113C.SSF	586815.562	45107
721973.914	4294271.286	7027	21-Dec-13	ALEX122113C.SSF	586816.69	45108
721973.877	4294271.292	7336	21-Dec-13	ALEX122113C.SSF	586817.618	45109
721973.646	4294271.354	6964	21-Dec-13	ALEX122113C.SSF	586818.67	45110
721972.977	4294271.593	6121	21-Dec-13	ALEX122113C.SSF	586819.623	45111
721972.296	4294271.78	6570	21-Dec-13	ALEX122113C.SSF	586820.669	45112
721972.173	4294271.771	6802	21-Dec-13	ALEX122113C.SSF	586821.536	45113
721972.288	4294271.606	6001	21-Dec-13	ALEX122113C.SSF	586822.68	45114

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721972.366	4294271.399	6675	21-Dec-13	ALEX122113C.SSF	586823.578	45115
721972.759	4294271.038	5688	21-Dec-13	ALEX122113C.SSF	586824.599	45116
721973.358	4294270.61	5960	21-Dec-13	ALEX122113C.SSF	586825.475	45117
721974.258	4294270.169	6135	21-Dec-13	ALEX122113C.SSF	586826.623	45118
721974.908	4294269.944	7173	21-Dec-13	ALEX122113C.SSF	586827.472	45119
721975.638	4294269.59	6803	21-Dec-13	ALEX122113C.SSF	586828.546	45120
721976.306	4294269.327	7430	21-Dec-13	ALEX122113C.SSF	586829.542	45121
721976.861	4294268.991	6747	21-Dec-13	ALEX122113C.SSF	586830.564	45122
721977.02	4294268.62	6907	21-Dec-13	ALEX122113C.SSF	586831.48	45123
721976.967	4294268.44	6526	21-Dec-13	ALEX122113C.SSF	586832.574	45124
721977.035	4294268.461	5561	21-Dec-13	ALEX122113C.SSF	586833.571	45125
721977.211	4294268.476	6068	21-Dec-13	ALEX122113C.SSF	586834.55	45126
721977.359	4294268.464	6430	21-Dec-13	ALEX122113C.SSF	586835.474	45127
721977.45	4294268.44	6677	21-Dec-13	ALEX122113C.SSF	586836.493	45128
721977.447	4294268.292	5569	21-Dec-13	ALEX122113C.SSF	586837.493	45129
721977.412	4294268.176	5817	21-Dec-13	ALEX122113C.SSF	586838.541	45130
721977.632	4294268.463	6126	21-Dec-13	ALEX122113C.SSF	586839.491	45131
721978.179	4294268.966	6212	21-Dec-13	ALEX122113C.SSF	586840.58	45132
721978.592	4294269.474	7193	21-Dec-13	ALEX122113C.SSF	586841.474	45133
721979.173	4294270.356	7258	21-Dec-13	ALEX122113C.SSF	586842.545	45134
721979.787	4294271.154	7274	21-Dec-13	ALEX122113C.SSF	586843.452	45135
721980.275	4294271.88	7338	21-Dec-13	ALEX122113C.SSF	586844.549	45136
721980.56	4294272.294	6484	21-Dec-13	ALEX122113C.SSF	586845.569	45137
721980.961	4294272.915	6931	21-Dec-13	ALEX122113C.SSF	586846.635	45138
721981.223	4294273.61	7162	21-Dec-13	ALEX122113C.SSF	586847.593	45139
721981.631	4294274.216	6920	21-Dec-13	ALEX122113C.SSF	586848.674	45140
721982.168	4294274.792	6830	21-Dec-13	ALEX122113C.SSF	586849.573	45141
721982.629	4294275.481	6327	21-Dec-13	ALEX122113C.SSF	586850.592	45142
721983.011	4294276.027	5732	21-Dec-13	ALEX122113C.SSF	586851.568	45143
721983.531	4294276.68	6067	21-Dec-13	ALEX122113C.SSF	586852.596	45144
721983.903	4294277.411	5305	21-Dec-13	ALEX122113C.SSF	586853.532	45145
721984.335	4294278.203	5369	21-Dec-13	ALEX122113C.SSF	586854.595	45146
721984.935	4294278.82	5570	21-Dec-13	ALEX122113C.SSF	586855.574	45147
721985.482	4294279.478	5345	21-Dec-13	ALEX122113C.SSF	586856.636	45148
721985.879	4294280.044	5257	21-Dec-13	ALEX122113C.SSF	586857.51	45149
721986.602	4294280.793	5027	21-Dec-13	ALEX122113C.SSF	586858.655	45150
721987.144	4294281.562	5745	21-Dec-13	ALEX122113C.SSF	586859.605	45151
721987.504	4294282.393	5534	21-Dec-13	ALEX122113C.SSF	586860.665	45152
721987.773	4294282.831	6000	21-Dec-13	ALEX122113C.SSF	586861.515	45153
721988.26	4294283.517	5655	21-Dec-13	ALEX122113C.SSF	586862.642	45154
721988.743	4294284.289	6256	21-Dec-13	ALEX122113C.SSF	586863.576	45155
721989.331	4294284.994	7204	21-Dec-13	ALEX122113C.SSF	586864.638	45156
721989.777	4294285.494	8281	21-Dec-13	ALEX122113C.SSF	586865.56	45157
721990.318	4294286.131	8550	21-Dec-13	ALEX122113C.SSF	586866.644	45158
721990.785	4294286.682	8647	21-Dec-13	ALEX122113C.SSF	586867.504	45159
721991.176	4294287.251	8372	21-Dec-13	ALEX122113C.SSF	586868.623	45160
721991.332	4294287.451	8243	21-Dec-13	ALEX122113C.SSF	586869.498	45161

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721991.499	4294287.687	7880	21-Dec-13	ALEX122113C.SSF	586870.632	45162
721991.842	4294288.097	8150	21-Dec-13	ALEX122113C.SSF	586871.517	45163
721992.765	4294289.069	9237	21-Dec-13	ALEX122113C.SSF	586872.685	45164
721993.352	4294289.746	9089	21-Dec-13	ALEX122113C.SSF	586873.555	45165
721993.766	4294290.13	8632	21-Dec-13	ALEX122113C.SSF	586874.648	45166
721994.022	4294290.391	9056	21-Dec-13	ALEX122113C.SSF	586875.464	45167
721994.556	4294291.073	8497	21-Dec-13	ALEX122113C.SSF	586876.672	45168
721994.926	4294291.618	8154	21-Dec-13	ALEX122113C.SSF	586877.53	45169
721995.338	4294292.244	8068	21-Dec-13	ALEX122113C.SSF	586878.573	45170
721995.795	4294292.688	8437	21-Dec-13	ALEX122113C.SSF	586879.546	45171
721996.186	4294292.883	8559	21-Dec-13	ALEX122113C.SSF	586880.683	45172
721996.329	4294292.938	8019	21-Dec-13	ALEX122113C.SSF	586881.568	45173
721996.464	4294292.923	9235	21-Dec-13	ALEX122113C.SSF	586882.624	45174
721996.555	4294292.864	8398	21-Dec-13	ALEX122113C.SSF	586883.575	45175
721996.588	4294292.946	8219	21-Dec-13	ALEX122113C.SSF	586884.612	45176
721996.589	4294293.059	9435	21-Dec-13	ALEX122113C.SSF	586885.573	45177
721996.571	4294293.072	8988	21-Dec-13	ALEX122113C.SSF	586886.632	45178
721996.527	4294293.053	8517	21-Dec-13	ALEX122113C.SSF	586887.592	45179
721996.481	4294293.052	8459	21-Dec-13	ALEX122113C.SSF	586888.67	45180
721996.465	4294293.066	7785	21-Dec-13	ALEX122113C.SSF	586889.522	45181
721996.449	4294293.065	8816	21-Dec-13	ALEX122113C.SSF	586890.673	45182
721996.436	4294293.078	8354	21-Dec-13	ALEX122113C.SSF	586891.535	45183
721996.427	4294293.103	8988	21-Dec-13	ALEX122113C.SSF	586892.671	45184
721996.437	4294293.105	7407	21-Dec-13	ALEX122113C.SSF	586893.608	45185
721996.456	4294293.099	7521	21-Dec-13	ALEX122113C.SSF	586894.58	45186
721996.447	4294293.085	8750	21-Dec-13	ALEX122113C.SSF	586895.483	45187
721996.36	4294292.967	9267	21-Dec-13	ALEX122113C.SSF	586896.588	45188
721996.294	4294292.891	6937	21-Dec-13	ALEX122113C.SSF	586897.542	45189
721996.31	4294292.923	7434	21-Dec-13	ALEX122113C.SSF	586898.559	45190
721996.335	4294292.981	8638	21-Dec-13	ALEX122113C.SSF	586899.479	45191
721996.41	4294293.048	10019	21-Dec-13	ALEX122113C.SSF	586900.604	45192
721996.588	4294293.186	9615	21-Dec-13	ALEX122113C.SSF	586901.56	45193
721996.863	4294293.652	9003	21-Dec-13	ALEX122113C.SSF	586902.614	45194
721997.296	4294294.176	9330	21-Dec-13	ALEX122113C.SSF	586903.528	45195
721997.994	4294294.739	7132	21-Dec-13	ALEX122113C.SSF	586904.603	45196
721998.408	4294295.173	8323	21-Dec-13	ALEX122113C.SSF	586905.49	45197
721998.765	4294295.668	8111	21-Dec-13	ALEX122113C.SSF	586906.578	45198
721999.187	4294296.29	8357	21-Dec-13	ALEX122113C.SSF	586907.545	45199
721999.85	4294297.216	8089	21-Dec-13	ALEX122113C.SSF	586908.596	45200
722000.5	4294297.932	8862	21-Dec-13	ALEX122113C.SSF	586909.457	45201
722001.091	4294298.577	8035	21-Dec-13	ALEX122113C.SSF	586910.493	45202
722001.361	4294298.942	7919	21-Dec-13	ALEX122113C.SSF	586911.438	45203
722001.661	4294299.246	8429	21-Dec-13	ALEX122113C.SSF	586912.528	45204
722002.09	4294299.612	9187	21-Dec-13	ALEX122113C.SSF	586913.507	45205
722002.698	4294300.238	9046	21-Dec-13	ALEX122113C.SSF	586914.551	45206
722003.363	4294300.984	8891	21-Dec-13	ALEX122113C.SSF	586915.52	45207
722004.145	4294301.704	9063	21-Dec-13	ALEX122113C.SSF	586916.594	45208

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722004.604	4294302.238	9075	21-Dec-13	ALEX122113C.SSF	586917.545	45209
722004.979	4294302.733	9408	21-Dec-13	ALEX122113C.SSF	586918.597	45210
722005.433	4294303.284	8832	21-Dec-13	ALEX122113C.SSF	586919.529	45211
722006.032	4294304.098	9018	21-Dec-13	ALEX122113C.SSF	586920.609	45212
722006.447	4294304.66	8704	21-Dec-13	ALEX122113C.SSF	586921.536	45213
722006.842	4294305.122	8596	21-Dec-13	ALEX122113C.SSF	586922.666	45214
722007.274	4294305.406	7729	21-Dec-13	ALEX122113C.SSF	586923.559	45215
722007.783	4294305.588	8022	21-Dec-13	ALEX122113C.SSF	586924.585	45216
722007.947	4294305.592	7225	21-Dec-13	ALEX122113C.SSF	586925.497	45217
722007.772	4294305.522	8466	21-Dec-13	ALEX122113C.SSF	586926.519	45218
722007.669	4294305.389	8416	21-Dec-13	ALEX122113C.SSF	586927.448	45219
722008.307	4294305.027	7684	21-Dec-13	ALEX122113C.SSF	586928.596	45220
722009.176	4294304.611	8251	21-Dec-13	ALEX122113C.SSF	586929.563	45221
722009.743	4294304.393	7672	21-Dec-13	ALEX122113C.SSF	586930.569	45222
722009.93	4294304.446	7888	21-Dec-13	ALEX122113C.SSF	586931.497	45223
722009.795	4294304.462	7942	21-Dec-13	ALEX122113C.SSF	586932.558	45224
722009.547	4294304.286	8555	21-Dec-13	ALEX122113C.SSF	586933.454	45225
722009.071	4294303.817	8498	21-Dec-13	ALEX122113C.SSF	586934.603	45226
722008.506	4294303.269	8094	21-Dec-13	ALEX122113C.SSF	586935.542	45227
722007.963	4294302.507	9343	21-Dec-13	ALEX122113C.SSF	586936.599	45228
722007.499	4294301.839	8906	21-Dec-13	ALEX122113C.SSF	586937.53	45229
722006.824	4294301.218	8826	21-Dec-13	ALEX122113C.SSF	586938.67	45230
722006.388	4294300.713	9256	21-Dec-13	ALEX122113C.SSF	586939.498	45231
722005.856	4294299.906	8974	21-Dec-13	ALEX122113C.SSF	586940.555	45232
722005.316	4294299.277	8273	21-Dec-13	ALEX122113C.SSF	586941.475	45233
722004.662	4294298.484	8128	21-Dec-13	ALEX122113C.SSF	586942.647	45234
722004.143	4294297.752	8962	21-Dec-13	ALEX122113C.SSF	586943.551	45235
722003.503	4294297.06	7580	21-Dec-13	ALEX122113C.SSF	586944.586	45236
722003.021	4294296.517	7925	21-Dec-13	ALEX122113C.SSF	586945.452	45237
722002.533	4294295.7	8191	21-Dec-13	ALEX122113C.SSF	586946.526	45238
722002.061	4294295.052	9427	21-Dec-13	ALEX122113C.SSF	586947.479	45239
722001.393	4294294.442	8267	21-Dec-13	ALEX122113C.SSF	586948.512	45240
722000.84	4294293.837	7286	21-Dec-13	ALEX122113C.SSF	586949.445	45241
722000.326	4294293.191	8091	21-Dec-13	ALEX122113C.SSF	586950.547	45242
721999.826	4294292.68	7783	21-Dec-13	ALEX122113C.SSF	586951.46	45243
721999.161	4294291.902	7015	21-Dec-13	ALEX122113C.SSF	586952.643	45244
721998.729	4294291.367	8234	21-Dec-13	ALEX122113C.SSF	586953.491	45245
721998.118	4294290.726	7788	21-Dec-13	ALEX122113C.SSF	586954.574	45246
721997.641	4294290.106	7974	21-Dec-13	ALEX122113C.SSF	586955.448	45247
721997.09	4294289.375	8061	21-Dec-13	ALEX122113C.SSF	586956.507	45248
721996.547	4294288.946	7265	21-Dec-13	ALEX122113C.SSF	586957.427	45249
721995.935	4294288.292	8026	21-Dec-13	ALEX122113C.SSF	586958.572	45250
721995.598	4294287.6	8786	21-Dec-13	ALEX122113C.SSF	586959.408	45251
721995.067	4294286.721	9366	21-Dec-13	ALEX122113C.SSF	586960.558	45252
721994.596	4294286.108	9721	21-Dec-13	ALEX122113C.SSF	586961.419	45253
721993.993	4294285.28	8430	21-Dec-13	ALEX122113C.SSF	586962.56	45254
721993.492	4294284.801	7357	21-Dec-13	ALEX122113C.SSF	586963.413	45255

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721992.853	4294284.169	7509	21-Dec-13	ALEX122113C.SSF	586964.564	45256
721992.48	4294283.56	8027	21-Dec-13	ALEX122113C.SSF	586965.463	45257
721992.035	4294282.893	7586	21-Dec-13	ALEX122113C.SSF	586966.575	45258
721991.667	4294282.357	7056	21-Dec-13	ALEX122113C.SSF	586967.492	45259
721991.221	4294281.634	6264	21-Dec-13	ALEX122113C.SSF	586968.611	45260
721990.726	4294281.133	6396	21-Dec-13	ALEX122113C.SSF	586969.501	45261
721990.074	4294280.482	6609	21-Dec-13	ALEX122113C.SSF	586970.559	45262
721989.643	4294279.711	5972	21-Dec-13	ALEX122113C.SSF	586971.439	45263
721989.137	4294278.728	5804	21-Dec-13	ALEX122113C.SSF	586972.532	45264
721988.592	4294278.178	5672	21-Dec-13	ALEX122113C.SSF	586973.49	45265
721987.981	4294277.622	5823	21-Dec-13	ALEX122113C.SSF	586974.556	45266
721987.531	4294276.941	5810	21-Dec-13	ALEX122113C.SSF	586975.55	45267
721987.07	4294276.311	5803	21-Dec-13	ALEX122113C.SSF	586976.584	45268
721986.62	4294275.814	5469	21-Dec-13	ALEX122113C.SSF	586977.515	45269
721986.255	4294275.216	5461	21-Dec-13	ALEX122113C.SSF	586978.592	45270
721985.96	4294274.721	5539	21-Dec-13	ALEX122113C.SSF	586979.542	45271
721985.475	4294274.155	5111	21-Dec-13	ALEX122113C.SSF	586980.582	45272
721985.027	4294273.59	5530	21-Dec-13	ALEX122113C.SSF	586981.53	45273
721984.601	4294273.153	5600	21-Dec-13	ALEX122113C.SSF	586982.526	45274
721984.197	4294272.909	6330	21-Dec-13	ALEX122113C.SSF	586983.449	45275
721983.734	4294272.46	7492	21-Dec-13	ALEX122113C.SSF	586984.613	45276
721983.344	4294272.067	7213	21-Dec-13	ALEX122113C.SSF	586985.553	45277
721982.897	4294271.644	7023	21-Dec-13	ALEX122113C.SSF	586986.637	45278
721982.558	4294271.24	6765	21-Dec-13	ALEX122113C.SSF	586987.556	45279
721982.076	4294270.77	6311	21-Dec-13	ALEX122113C.SSF	586988.609	45280
721981.624	4294270.155	6438	21-Dec-13	ALEX122113C.SSF	586989.592	45281
721981.294	4294269.548	6739	21-Dec-13	ALEX122113C.SSF	586990.497	45282
721980.989	4294269.087	6844	21-Dec-13	ALEX122113C.SSF	586991.394	45283
721980.644	4294268.572	6721	21-Dec-13	ALEX122113C.SSF	586992.51	45284
721980.382	4294268.117	6600	21-Dec-13	ALEX122113C.SSF	586993.497	45285
721980.025	4294267.739	6810	21-Dec-13	ALEX122113C.SSF	586994.515	45286
721979.565	4294267.452	6652	21-Dec-13	ALEX122113C.SSF	586995.544	45287
721979.143	4294267.405	5713	21-Dec-13	ALEX122113C.SSF	586996.562	45288
721978.774	4294267.604	6116	21-Dec-13	ALEX122113C.SSF	586997.482	45289
721978.483	4294267.949	5533	21-Dec-13	ALEX122113C.SSF	586998.658	45290
721978.502	4294268.08	5925	21-Dec-13	ALEX122113C.SSF	586999.461	45291
721978.548	4294268.089	7082	21-Dec-13	ALEX122113C.SSF	587000.548	45292
721978.548	4294267.988	7830	21-Dec-13	ALEX122113C.SSF	587001.479	45293
721978.688	4294267.895	6067	21-Dec-13	ALEX122113C.SSF	587002.522	45294
721978.961	4294267.926	5920	21-Dec-13	ALEX122113C.SSF	587003.47	45295
721979.07	4294267.944	6300	21-Dec-13	ALEX122113C.SSF	587004.538	45296
721978.894	4294267.872	6165	21-Dec-13	ALEX122113C.SSF	587005.451	45297
721978.742	4294267.893	6221	21-Dec-13	ALEX122113C.SSF	587006.481	45298
721978.746	4294268.015	6175	21-Dec-13	ALEX122113C.SSF	587007.426	45299
721978.85	4294268.068	7064	21-Dec-13	ALEX122113C.SSF	587008.481	45300
721978.969	4294267.963	6416	21-Dec-13	ALEX122113C.SSF	587009.444	45301
721979.247	4294267.691	7034	21-Dec-13	ALEX122113C.SSF	587010.545	45302

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721979.725	4294267.391	6288	21-Dec-13	ALEX122113C.SSF	587011.396	45303
721980.165	4294266.847	5982	21-Dec-13	ALEX122113C.SSF	587012.542	45304
721980.064	4294266.489	6713	21-Dec-13	ALEX122113C.SSF	587013.483	45305
721979.974	4294266.346	6538	21-Dec-13	ALEX122113C.SSF	587014.523	45306
721980.039	4294266.297	6194	21-Dec-13	ALEX122113C.SSF	587015.453	45307
721980.129	4294266.19	6858	21-Dec-13	ALEX122113C.SSF	587016.586	45308
721980.231	4294266.148	7234	21-Dec-13	ALEX122113C.SSF	587017.465	45309
721980.498	4294266.153	7568	21-Dec-13	ALEX122113C.SSF	587018.602	45310
721980.573	4294266.109	7382	21-Dec-13	ALEX122113C.SSF	587019.453	45311
721980.345	4294266.199	7425	21-Dec-13	ALEX122113C.SSF	587020.542	45312
721980.185	4294266.442	7616	21-Dec-13	ALEX122113C.SSF	587021.451	45313
721980.182	4294266.525	7004	21-Dec-13	ALEX122113C.SSF	587022.491	45314
721980.294	4294266.425	6851	21-Dec-13	ALEX122113C.SSF	587023.414	45315
721980.52	4294266.383	7562	21-Dec-13	ALEX122113C.SSF	587024.553	45316
721980.598	4294266.354	7230	21-Dec-13	ALEX122113C.SSF	587025.584	45317
721980.622	4294266.314	7237	21-Dec-13	ALEX122113C.SSF	587026.577	45318
721980.648	4294266.276	6729	21-Dec-13	ALEX122113C.SSF	587027.504	45319
721980.659	4294266.22	7232	21-Dec-13	ALEX122113C.SSF	587028.616	45320
721980.652	4294266.166	7658	21-Dec-13	ALEX122113C.SSF	587029.47	45321
721980.641	4294266.103	7104	21-Dec-13	ALEX122113C.SSF	587030.547	45322
721980.629	4294266.052	6306	21-Dec-13	ALEX122113C.SSF	587031.468	45323
721980.611	4294265.962	6234	21-Dec-13	ALEX122113C.SSF	587032.544	45324
721980.576	4294265.884	5773	21-Dec-13	ALEX122113C.SSF	587033.43	45325
721980.509	4294265.856	6244	21-Dec-13	ALEX122113C.SSF	587034.559	45326
721980.48	4294265.874	5596	21-Dec-13	ALEX122113C.SSF	587035.451	45327
721980.462	4294265.933	5623	21-Dec-13	ALEX122113C.SSF	587036.577	45328
721980.435	4294266.018	6668	21-Dec-13	ALEX122113C.SSF	587037.49	45329
721980.415	4294266.165	7307	21-Dec-13	ALEX122113C.SSF	587038.606	45330
721980.423	4294266.264	6416	21-Dec-13	ALEX122113C.SSF	587039.446	45331
721980.402	4294266.28	5594	21-Dec-13	ALEX122113C.SSF	587040.548	45332
721980.356	4294266.25	5839	21-Dec-13	ALEX122113C.SSF	587041.476	45333
721980.329	4294266.172	5902	21-Dec-13	ALEX122113C.SSF	587042.509	45334
721980.331	4294266.074	6042	21-Dec-13	ALEX122113C.SSF	587043.471	45335
721980.336	4294266.057	6180	21-Dec-13	ALEX122113C.SSF	587044.566	45336
721980.318	4294266.08	6735	21-Dec-13	ALEX122113C.SSF	587045.471	45337
721980.292	4294266.103	6213	21-Dec-13	ALEX122113C.SSF	587046.58	45338
721980.308	4294266.26	6185	21-Dec-13	ALEX122113C.SSF	587047.514	45339
721980.325	4294266.489	5956	21-Dec-13	ALEX122113C.SSF	587048.612	45340
721980.264	4294266.442	7078	21-Dec-13	ALEX122113C.SSF	587049.454	45341
721980.183	4294266.236	7229	21-Dec-13	ALEX122113C.SSF	587050.577	45342
721980.186	4294266.169	6037	21-Dec-13	ALEX122113C.SSF	587051.467	45343
721980.196	4294266.166	6148	21-Dec-13	ALEX122113C.SSF	587052.557	45344
721980.196	4294266.167	5785	21-Dec-13	ALEX122113C.SSF	587053.474	45345
721980.195	4294266.164	5737	21-Dec-13	ALEX122113C.SSF	587054.567	45346
721980.193	4294266.155	6467	21-Dec-13	ALEX122113C.SSF	587055.448	45347
721980.232	4294266.189	7616	21-Dec-13	ALEX122113C.SSF	587056.551	45348
721980.313	4294266.26	6974	21-Dec-13	ALEX122113C.SSF	587057.457	45349

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721980.347	4294266.304	7233	21-Dec-13	ALEX122113C.SSF	587058.52	45350
721980.419	4294266.414	6158	21-Dec-13	ALEX122113C.SSF	587059.468	45351
721980.719	4294266.87	6939	21-Dec-13	ALEX122113C.SSF	587060.485	45352
721981.136	4294267.535	7255	21-Dec-13	ALEX122113C.SSF	587061.448	45353
721981.557	4294268.102	7783	21-Dec-13	ALEX122113C.SSF	587062.426	45354
721981.785	4294268.359	8006	21-Dec-13	ALEX122113C.SSF	587063.4	45355
721981.934	4294268.437	6501	21-Dec-13	ALEX122113C.SSF	587064.469	45356
721982.296	4294268.793	8105	21-Dec-13	ALEX122113C.SSF	587065.4	45357
721982.807	4294269.611	6886	21-Dec-13	ALEX122113C.SSF	587066.503	45358
721983.175	4294270.155	8081	21-Dec-13	ALEX122113C.SSF	587067.416	45359
721983.575	4294270.65	7300	21-Dec-13	ALEX122113C.SSF	587068.527	45360
721983.953	4294271.103	6895	21-Dec-13	ALEX122113C.SSF	587069.449	45361
721984.511	4294271.636	7093	21-Dec-13	ALEX122113C.SSF	587070.408	45362
721985.026	4294272.214	6543	21-Dec-13	ALEX122113C.SSF	587071.466	45363
721985.336	4294272.666	5835	21-Dec-13	ALEX122113C.SSF	587072.424	45364
721985.772	4294273.16	5615	21-Dec-13	ALEX122113C.SSF	587073.347	45365
721986.275	4294273.821	5551	21-Dec-13	ALEX122113C.SSF	587074.458	45366
721986.651	4294274.33	5770	21-Dec-13	ALEX122113C.SSF	587075.495	45367
721987.117	4294274.954	5225	21-Dec-13	ALEX122113C.SSF	587076.472	45368
721987.489	4294275.673	5002	21-Dec-13	ALEX122113C.SSF	587077.444	45369
721987.898	4294276.271	4981	21-Dec-13	ALEX122113C.SSF	587078.559	45370
721988.341	4294276.77	5134	21-Dec-13	ALEX122113C.SSF	587079.493	45371
721988.765	4294277.423	4890	21-Dec-13	ALEX122113C.SSF	587080.584	45372
721989.143	4294277.885	5466	21-Dec-13	ALEX122113C.SSF	587081.515	45373
721989.701	4294278.548	5272	21-Dec-13	ALEX122113C.SSF	587082.584	45374
721990.177	4294279.295	5530	21-Dec-13	ALEX122113C.SSF	587083.529	45375
721990.647	4294279.989	5736	21-Dec-13	ALEX122113C.SSF	587084.563	45376
721991.066	4294280.58	5784	21-Dec-13	ALEX122113C.SSF	587085.458	45377
721991.67	4294281.435	6058	21-Dec-13	ALEX122113C.SSF	587086.505	45378
721992.32	4294282.152	6952	21-Dec-13	ALEX122113C.SSF	587087.451	45379
721992.847	4294282.694	6388	21-Dec-13	ALEX122113C.SSF	587088.526	45380
721993.191	4294283.115	7897	21-Dec-13	ALEX122113C.SSF	587089.486	45381
721993.805	4294283.838	9024	21-Dec-13	ALEX122113C.SSF	587090.518	45382
721994.298	4294284.522	8586	21-Dec-13	ALEX122113C.SSF	587091.426	45383
721994.557	4294284.945	8746	21-Dec-13	ALEX122113C.SSF	587092.57	45384
721994.747	4294285.167	9506	21-Dec-13	ALEX122113C.SSF	587093.436	45385
721995.274	4294285.714	8256	21-Dec-13	ALEX122113C.SSF	587094.574	45386
721995.877	4294286.406	8454	21-Dec-13	ALEX122113C.SSF	587095.45	45387
721996.537	4294287.233	8893	21-Dec-13	ALEX122113C.SSF	587096.489	45388
721996.987	4294287.615	8286	21-Dec-13	ALEX122113C.SSF	587097.458	45389
721997.41	4294287.886	8130	21-Dec-13	ALEX122113C.SSF	587098.494	45390
721997.904	4294288.374	8332	21-Dec-13	ALEX122113C.SSF	587099.444	45391
721998.576	4294289.082	7483	21-Dec-13	ALEX122113C.SSF	587100.468	45392
721998.986	4294289.623	7901	21-Dec-13	ALEX122113C.SSF	587101.42	45393
721999.269	4294289.995	8185	21-Dec-13	ALEX122113C.SSF	587102.454	45394
721999.785	4294290.461	7656	21-Dec-13	ALEX122113C.SSF	587103.407	45395
722000.52	4294291.32	8304	21-Dec-13	ALEX122113C.SSF	587104.539	45396

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722000.945	4294291.901	8616	21-Dec-13	ALEX122113C.SSF	587105.403	45397
722001.333	4294292.578	8454	21-Dec-13	ALEX122113C.SSF	587106.566	45398
722001.626	4294293.156	7783	21-Dec-13	ALEX122113C.SSF	587107.482	45399
722002.066	4294293.706	8366	21-Dec-13	ALEX122113C.SSF	587108.493	45400
722002.46	4294294.131	8001	21-Dec-13	ALEX122113C.SSF	587109.432	45401
722002.872	4294294.586	9110	21-Dec-13	ALEX122113C.SSF	587110.454	45402
722003.399	4294295.054	9807	21-Dec-13	ALEX122113C.SSF	587111.385	45403
722003.985	4294295.669	9172	21-Dec-13	ALEX122113C.SSF	587112.505	45404
722004.31	4294296.169	8083	21-Dec-13	ALEX122113C.SSF	587113.375	45405
722004.814	4294296.921	8770	21-Dec-13	ALEX122113C.SSF	587114.513	45406
722005.171	4294297.528	9002	21-Dec-13	ALEX122113C.SSF	587115.453	45407
722005.585	4294298.167	8640	21-Dec-13	ALEX122113C.SSF	587116.527	45408
722006.143	4294298.776	8700	21-Dec-13	ALEX122113C.SSF	587117.46	45409
722006.688	4294299.655	8235	21-Dec-13	ALEX122113C.SSF	587118.531	45410
722006.965	4294300.394	9618	21-Dec-13	ALEX122113C.SSF	587119.457	45411
722007.382	4294300.939	9124	21-Dec-13	ALEX122113C.SSF	587120.455	45412
722008.019	4294301.51	8371	21-Dec-13	ALEX122113C.SSF	587121.414	45413
722008.616	4294302.432	7972	21-Dec-13	ALEX122113C.SSF	587122.549	45414
722008.91	4294302.989	7993	21-Dec-13	ALEX122113C.SSF	587123.408	45415
722009.477	4294303.448	8148	21-Dec-13	ALEX122113C.SSF	587124.471	45416
722009.964	4294303.543	8307	21-Dec-13	ALEX122113C.SSF	587125.459	45417
722010.024	4294303.24	8256	21-Dec-13	ALEX122113C.SSF	587126.507	45418
722009.993	4294303.132	8664	21-Dec-13	ALEX122113C.SSF	587127.467	45419
722010.184	4294303.191	8496	21-Dec-13	ALEX122113C.SSF	587128.502	45420
722010.532	4294302.825	8244	21-Dec-13	ALEX122113C.SSF	587129.453	45421
722010.82	4294302.111	8811	21-Dec-13	ALEX122113C.SSF	587130.56	45422
722010.708	4294301.681	8142	21-Dec-13	ALEX122113C.SSF	587131.384	45423
722010.373	4294301.274	7795	21-Dec-13	ALEX122113C.SSF	587132.532	45424
722010.323	4294301.263	9359	21-Dec-13	ALEX122113C.SSF	587133.463	45425
722010.316	4294301.361	8339	21-Dec-13	ALEX122113C.SSF	587134.502	45426
722010.159	4294301.267	9435	21-Dec-13	ALEX122113C.SSF	587135.452	45427
722010.058	4294301.147	8028	21-Dec-13	ALEX122113C.SSF	587136.478	45428
722009.948	4294300.904	7887	21-Dec-13	ALEX122113C.SSF	587137.42	45429
722009.553	4294300.335	8601	21-Dec-13	ALEX122113C.SSF	587138.446	45430
722009.226	4294299.79	8540	21-Dec-13	ALEX122113C.SSF	587139.381	45431
722008.903	4294299.178	7805	21-Dec-13	ALEX122113C.SSF	587140.47	45432
722008.441	4294298.704	8581	21-Dec-13	ALEX122113C.SSF	587141.407	45433
722007.918	4294298.229	8205	21-Dec-13	ALEX122113C.SSF	587142.459	45434
722007.526	4294297.777	7811	21-Dec-13	ALEX122113C.SSF	587143.44	45435
722007.052	4294297.397	9213	21-Dec-13	ALEX122113C.SSF	587144.477	45436
722006.627	4294296.957	8693	21-Dec-13	ALEX122113C.SSF	587145.357	45437
722006.111	4294296.049	8503	21-Dec-13	ALEX122113C.SSF	587146.456	45438
722005.577	4294295.335	8516	21-Dec-13	ALEX122113C.SSF	587147.36	45439
722004.854	4294294.581	9389	21-Dec-13	ALEX122113C.SSF	587148.442	45440
722004.36	4294293.878	8917	21-Dec-13	ALEX122113C.SSF	587149.367	45441
722003.851	4294293.177	8679	21-Dec-13	ALEX122113C.SSF	587150.447	45442
722003.38	4294292.606	8839	21-Dec-13	ALEX122113C.SSF	587151.39	45443

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722002.95	4294291.906	7915	21-Dec-13	ALEX122113C.SSF	587152.444	45444
722002.549	4294291.458	8488	21-Dec-13	ALEX122113C.SSF	587153.328	45445
722001.865	4294291.029	8632	21-Dec-13	ALEX122113C.SSF	587154.407	45446
722001.343	4294290.506	7798	21-Dec-13	ALEX122113C.SSF	587155.393	45447
722000.869	4294289.902	8459	21-Dec-13	ALEX122113C.SSF	587156.487	45448
722000.401	4294289.444	8175	21-Dec-13	ALEX122113C.SSF	587157.435	45449
721999.924	4294288.826	8523	21-Dec-13	ALEX122113C.SSF	587158.521	45450
721999.444	4294288.195	9030	21-Dec-13	ALEX122113C.SSF	587159.434	45451
721998.703	4294287.567	8047	21-Dec-13	ALEX122113C.SSF	587160.465	45452
721998.111	4294287.02	8612	21-Dec-13	ALEX122113C.SSF	587161.412	45453
721997.576	4294286.325	8633	21-Dec-13	ALEX122113C.SSF	587162.456	45454
721997.036	4294285.664	8968	21-Dec-13	ALEX122113C.SSF	587163.425	45455
721996.534	4294285.043	8302	21-Dec-13	ALEX122113C.SSF	587164.478	45456
721996.091	4294284.698	8195	21-Dec-13	ALEX122113C.SSF	587165.406	45457
721995.513	4294284.23	8198	21-Dec-13	ALEX122113C.SSF	587166.507	45458
721995.188	4294283.625	8799	21-Dec-13	ALEX122113C.SSF	587167.423	45459
721995.039	4294283.008	7570	21-Dec-13	ALEX122113C.SSF	587168.513	45460
721994.989	4294282.765	7682	21-Dec-13	ALEX122113C.SSF	587169.459	45461
721994.807	4294282.627	6780	21-Dec-13	ALEX122113C.SSF	587170.474	45462
721994.469	4294282.332	7905	21-Dec-13	ALEX122113C.SSF	587171.436	45463
721994.048	4294281.667	7196	21-Dec-13	ALEX122113C.SSF	587172.512	45464
721993.63	4294281.016	6329	21-Dec-13	ALEX122113C.SSF	587173.425	45465
721993.024	4294280.434	6142	21-Dec-13	ALEX122113C.SSF	587174.479	45466
721992.563	4294279.966	5813	21-Dec-13	ALEX122113C.SSF	587175.377	45467
721992.134	4294279.221	5640	21-Dec-13	ALEX122113C.SSF	587176.527	45468
721991.745	4294278.71	5400	21-Dec-13	ALEX122113C.SSF	587177.377	45469
721991.061	4294278.145	5482	21-Dec-13	ALEX122113C.SSF	587178.463	45470
721990.524	4294277.625	5348	21-Dec-13	ALEX122113C.SSF	587179.4139	45471
721990.03	4294277.094	5581	21-Dec-13	ALEX122113C.SSF	587180.463	45472
721989.546	4294276.606	5535	21-Dec-13	ALEX122113C.SSF	587181.42	45473
721989.092	4294275.878	5481	21-Dec-13	ALEX122113C.SSF	587182.498	45474
721988.776	4294275.308	5243	21-Dec-13	ALEX122113C.SSF	587183.405	45475
721988.237	4294274.785	4869	21-Dec-13	ALEX122113C.SSF	587184.554	45476
721987.782	4294274.213	4726	21-Dec-13	ALEX122113C.SSF	587185.453	45477
721987.233	4294273.436	4766	21-Dec-13	ALEX122113C.SSF	587186.455	45478
721986.608	4294272.806	5118	21-Dec-13	ALEX122113C.SSF	587187.443	45479
721986.089	4294272.189	5519	21-Dec-13	ALEX122113C.SSF	587188.443	45480
721985.695	4294271.506	6134	21-Dec-13	ALEX122113C.SSF	587189.402	45481
721985.158	4294270.842	7023	21-Dec-13	ALEX122113C.SSF	587190.502	45482
721984.678	4294270.357	8355	21-Dec-13	ALEX122113C.SSF	587191.464	45483
721984.336	4294269.909	8148	21-Dec-13	ALEX122113C.SSF	587192.46	45484
721984.007	4294269.596	7617	21-Dec-13	ALEX122113C.SSF	587193.457	45485
721983.543	4294269.253	7544	21-Dec-13	ALEX122113C.SSF	587194.458	45486
721983.152	4294268.809	7856	21-Dec-13	ALEX122113C.SSF	587195.355	45487
721982.716	4294268.248	7964	21-Dec-13	ALEX122113C.SSF	587196.403	45488
721982.276	4294267.736	7751	21-Dec-13	ALEX122113C.SSF	587197.334	45489
721981.812	4294267.138	7187	21-Dec-13	ALEX122113C.SSF	587198.425	45490

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721981.446	4294266.795	5696	21-Dec-13	ALEX122113C.SSF	587199.3409	45491
721981.123	4294266.627	5739	21-Dec-13	ALEX122113C.SSF	587200.476	45492
721981.074	4294266.672	5913	21-Dec-13	ALEX122113C.SSF	587201.376	45493
721981.208	4294266.632	6018	21-Dec-13	ALEX122113C.SSF	587202.417	45494
721981.427	4294266.323	5628	21-Dec-13	ALEX122113C.SSF	587203.347	45495
721981.734	4294265.875	5903	21-Dec-13	ALEX122113C.SSF	587204.467	45496
721981.859	4294265.709	5690	21-Dec-13	ALEX122113C.SSF	587205.4561	45497
721981.752	4294265.55	5376	21-Dec-13	ALEX122113C.SSF	587206.51	45498
721981.565	4294265.332	6001	21-Dec-13	ALEX122113C.SSF	587207.455	45499
721981.544	4294265.219	6525	21-Dec-13	ALEX122113C.SSF	587208.49	45500
721981.647	4294265.19	5951	21-Dec-13	ALEX122113C.SSF	587209.452	45501
721981.562	4294265.124	6131	21-Dec-13	ALEX122113C.SSF	587210.459	45502
721981.506	4294265.121	5313	21-Dec-13	ALEX122113C.SSF	587211.379	45503
721981.746	4294265.337	5703	21-Dec-13	ALEX122113C.SSF	587212.474	45504
721981.908	4294265.542	6110	21-Dec-13	ALEX122113C.SSF	587213.384	45505
721981.906	4294265.607	6837	21-Dec-13	ALEX122113C.SSF	587214.473	45506
721981.888	4294265.606	8399	21-Dec-13	ALEX122113C.SSF	587215.361	45507
721981.933	4294265.613	7410	21-Dec-13	ALEX122113C.SSF	587216.496	45508
721981.953	4294265.576	7342	21-Dec-13	ALEX122113C.SSF	587217.349	45509
721982.064	4294265.594	7415	21-Dec-13	ALEX122113C.SSF	587218.4821	45510
721982.356	4294266.024	6503	21-Dec-13	ALEX122113C.SSF	587219.373	45511
721982.729	4294266.932	7266	21-Dec-13	ALEX122113C.SSF	587220.459	45512
721982.938	4294267.471	6646	21-Dec-13	ALEX122113C.SSF	587221.37	45513
721983.137	4294267.714	6731	21-Dec-13	ALEX122113C.SSF	587222.464	45514
721983.34	4294267.868	7263	21-Dec-13	ALEX122113C.SSF	587223.368	45515
721983.839	4294268.381	7755	21-Dec-13	ALEX122113C.SSF	587224.474	45516
721984.26	4294268.974	7458	21-Dec-13	ALEX122113C.SSF	587225.3669	45517
721984.616	4294269.45	7894	21-Dec-13	ALEX122113C.SSF	587226.469	45518
721984.958	4294269.776	8003	21-Dec-13	ALEX122113C.SSF	587227.304	45519
721985.581	4294270.52	7401	21-Dec-13	ALEX122113C.SSF	587228.4561	45520
721986.048	4294270.974	7250	21-Dec-13	ALEX122113C.SSF	587229.327	45521
721986.513	4294271.403	6273	21-Dec-13	ALEX122113C.SSF	587230.486	45522
721986.819	4294271.873	6098	21-Dec-13	ALEX122113C.SSF	587231.339	45523
721987.404	4294272.523	5617	21-Dec-13	ALEX122113C.SSF	587232.397	45524
721987.881	4294273.093	5799	21-Dec-13	ALEX122113C.SSF	587233.3669	45525
721988.293	4294273.821	5580	21-Dec-13	ALEX122113C.SSF	587234.478	45526
721988.849	4294274.293	5688	21-Dec-13	ALEX122113C.SSF	587235.381	45527
721989.57	4294274.872	5254	21-Dec-13	ALEX122113C.SSF	587236.519	45528
721989.856	4294275.503	5325	21-Dec-13	ALEX122113C.SSF	587237.368	45529
721990.188	4294276.35	5523	21-Dec-13	ALEX122113C.SSF	587238.512	45530
721990.699	4294276.983	5499	21-Dec-13	ALEX122113C.SSF	587239.474	45531
721991.094	4294277.581	5096	21-Dec-13	ALEX122113C.SSF	587240.459	45532
721991.347	4294278.023	5094	21-Dec-13	ALEX122113C.SSF	587241.317	45533
721992.179	4294278.685	5550	21-Dec-13	ALEX122113C.SSF	587242.447	45534
721993.012	4294279.415	5147	21-Dec-13	ALEX122113C.SSF	587243.382	45535
721993.594	4294280.285	5970	21-Dec-13	ALEX122113C.SSF	587244.446	45536
721994.055	4294280.871	5630	21-Dec-13	ALEX122113C.SSF	587245.373	45537

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721994.915	4294281.581	5770	21-Dec-13	ALEX122113C.SSF	587246.543	45538
721995.485	4294282.311	6155	21-Dec-13	ALEX122113C.SSF	587247.437	45539
721995.944	4294283.149	6628	21-Dec-13	ALEX122113C.SSF	587248.516	45540
721996.335	4294283.59	7837	21-Dec-13	ALEX122113C.SSF	587249.37	45541
721996.942	4294284.154	7959	21-Dec-13	ALEX122113C.SSF	587250.489	45542
721997.448	4294284.742	8139	21-Dec-13	ALEX122113C.SSF	587251.332	45543
721998.119	4294285.394	8605	21-Dec-13	ALEX122113C.SSF	587252.381	45544
721998.679	4294285.874	8721	21-Dec-13	ALEX122113C.SSF	587253.306	45545
721999.171	4294286.619	8330	21-Dec-13	ALEX122113C.SSF	587254.412	45546
721999.676	4294287.242	9432	21-Dec-13	ALEX122113C.SSF	587255.411	45547
722000.478	4294287.784	9198	21-Dec-13	ALEX122113C.SSF	587256.451	45548
722000.971	4294288.274	8569	21-Dec-13	ALEX122113C.SSF	587257.3781	45549
722001.233	4294288.809	7992	21-Dec-13	ALEX122113C.SSF	587258.51	45550
722001.711	4294289.281	8748	21-Dec-13	ALEX122113C.SSF	587259.37	45551
722002.369	4294289.964	9177	21-Dec-13	ALEX122113C.SSF	587260.401	45552
722002.719	4294290.525	8174	21-Dec-13	ALEX122113C.SSF	587261.351	45553
722003.185	4294291.003	7863	21-Dec-13	ALEX122113C.SSF	587262.431	45554
722003.641	4294291.562	8835	21-Dec-13	ALEX122113C.SSF	587263.358	45555
722004.167	4294292.499	7788	21-Dec-13	ALEX122113C.SSF	587264.428	45556
722004.78	4294293.273	8247	21-Dec-13	ALEX122113C.SSF	587265.394	45557
722005.535	4294294.05	8212	21-Dec-13	ALEX122113C.SSF	587266.451	45558
722006.076	4294294.803	8293	21-Dec-13	ALEX122113C.SSF	587267.3979	45559
722006.621	4294295.542	7473	21-Dec-13	ALEX122113C.SSF	587268.436	45560
722007.298	4294296.209	8588	21-Dec-13	ALEX122113C.SSF	587269.439	45561
722007.904	4294296.955	8837	21-Dec-13	ALEX122113C.SSF	587270.467	45562
722008.325	4294297.617	8779	21-Dec-13	ALEX122113C.SSF	587271.385	45563
722008.952	4294298.266	8674	21-Dec-13	ALEX122113C.SSF	587272.453	45564
722009.588	4294298.87	8558	21-Dec-13	ALEX122113C.SSF	587273.42	45565
722010.075	4294299.612	8079	21-Dec-13	ALEX122113C.SSF	587274.479	45566
722010.43	4294300.051	8740	21-Dec-13	ALEX122113C.SSF	587275.3719	45567
722011.144	4294300.363	8725	21-Dec-13	ALEX122113C.SSF	587276.51	45568
722011.712	4294300.808	7671	21-Dec-13	ALEX122113C.SSF	587277.377	45569
722012.363	4294301.395	7107	21-Dec-13	ALEX122113C.SSF	587278.5179	45570
722012.688	4294301.259	8767	21-Dec-13	ALEX122113C.SSF	587279.371	45571
722012.929	4294300.495	9181	21-Dec-13	ALEX122113C.SSF	587280.4	45572
722013.102	4294299.671	8235	21-Dec-13	ALEX122113C.SSF	587281.4301	45573
722012.889	4294299.153	8718	21-Dec-13	ALEX122113C.SSF	587282.495	45574
722012.559	4294298.983	9109	21-Dec-13	ALEX122113C.SSF	587283.355	45575
722012.213	4294298.894	7347	21-Dec-13	ALEX122113C.SSF	587284.3979	45576
722012.122	4294298.839	7927	21-Dec-13	ALEX122113C.SSF	587285.369	45577
722012.213	4294298.785	8521	21-Dec-13	ALEX122113C.SSF	587286.4351	45578
722012.26	4294298.76	8040	21-Dec-13	ALEX122113C.SSF	587287.41	45579
722012.195	4294298.814	8370	21-Dec-13	ALEX122113C.SSF	587288.451	45580
722012.056	4294298.876	8362	21-Dec-13	ALEX122113C.SSF	587289.417	45581
722012.021	4294298.896	8450	21-Dec-13	ALEX122113C.SSF	587290.47	45582
722012.021	4294298.869	8532	21-Dec-13	ALEX122113C.SSF	587291.3831	45583
722012.028	4294298.827	9633	21-Dec-13	ALEX122113C.SSF	587292.408	45584

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722012.059	4294298.852	7538	21-Dec-13	ALEX122113C.SSF	587293.399	45585
722012.089	4294298.861	7974	21-Dec-13	ALEX122113C.SSF	587294.422	45586
722012.142	4294298.826	8533	21-Dec-13	ALEX122113C.SSF	587295.381	45587
722012.214	4294298.79	9183	21-Dec-13	ALEX122113C.SSF	587296.454	45588
722012.271	4294298.767	9075	21-Dec-13	ALEX122113C.SSF	587297.377	45589
722012.326	4294298.742	9258	21-Dec-13	ALEX122113C.SSF	587298.526	45590
722012.356	4294298.733	9784	21-Dec-13	ALEX122113C.SSF	587299.369	45591
722012.376	4294298.731	9376	21-Dec-13	ALEX122113C.SSF	587300.386	45592
722012.636	4294298.493	8381	21-Dec-13	ALEX122113C.SSF	587377.415	45593
722012.625	4294298.487	7615	21-Dec-13	ALEX122113C.SSF	587378.437	45594
722012.616	4294298.479	8414	21-Dec-13	ALEX122113C.SSF	587379.472	45595
722012.618	4294298.476	9273	21-Dec-13	ALEX122113C.SSF	587380.4	45596
722012.626	4294298.475	9128	21-Dec-13	ALEX122113C.SSF	587381.391	45597
722012.625	4294298.469	8642	21-Dec-13	ALEX122113C.SSF	587382.496	45598
722012.615	4294298.463	9060	21-Dec-13	ALEX122113C.SSF	587383.396	45599
722012.6	4294298.451	8535	21-Dec-13	ALEX122113C.SSF	587384.476	45600
722012.595	4294298.443	8283	21-Dec-13	ALEX122113C.SSF	587385.222	45601
722012.594	4294298.456	7801	21-Dec-13	ALEX122113C.SSF	587386.335	45602
722012.592	4294298.464	7290	21-Dec-13	ALEX122113C.SSF	587387.269	45603
722012.586	4294298.46	8542	21-Dec-13	ALEX122113C.SSF	587388.303	45604
722012.581	4294298.458	8705	21-Dec-13	ALEX122113C.SSF	587389.23	45605
722012.577	4294298.461	8146	21-Dec-13	ALEX122113C.SSF	587390.324	45606
722012.565	4294298.471	7736	21-Dec-13	ALEX122113C.SSF	587391.361	45607
722012.457	4294298.528	8684	21-Dec-13	ALEX122113C.SSF	587392.408	45608
722012.297	4294298.567	8662	21-Dec-13	ALEX122113C.SSF	587393.3831	45609
722012.282	4294298.508	8957	21-Dec-13	ALEX122113C.SSF	587394.335	45610
722012.2	4294298.201	8449	21-Dec-13	ALEX122113C.SSF	587395.379	45611
722011.803	4294297.574	8052	21-Dec-13	ALEX122113C.SSF	587396.4139	45612
722011.17	4294296.997	7683	21-Dec-13	ALEX122113C.SSF	587397.427	45613
722010.534	4294296.428	7770	21-Dec-13	ALEX122113C.SSF	587398.412	45614
722010.077	4294295.677	7762	21-Dec-13	ALEX122113C.SSF	587399.412	45615
722009.576	4294295.005	7400	21-Dec-13	ALEX122113C.SSF	587400.484	45616
722008.996	4294294.612	8270	21-Dec-13	ALEX122113C.SSF	587401.384	45617
722008.358	4294293.991	8337	21-Dec-13	ALEX122113C.SSF	587402.469	45618
722007.92	4294293.248	7424	21-Dec-13	ALEX122113C.SSF	587403.427	45619
722007.388	4294292.598	7556	21-Dec-13	ALEX122113C.SSF	587404.425	45620
722006.746	4294292.098	9299	21-Dec-13	ALEX122113C.SSF	587405.386	45621
722006.142	4294291.388	6914	21-Dec-13	ALEX122113C.SSF	587406.463	45622
722005.73	4294290.724	8058	21-Dec-13	ALEX122113C.SSF	587407.356	45623
722005.062	4294290.045	8584	21-Dec-13	ALEX122113C.SSF	587408.455	45624
722004.469	4294289.474	8536	21-Dec-13	ALEX122113C.SSF	587409.397	45625
722003.853	4294288.644	7864	21-Dec-13	ALEX122113C.SSF	587410.469	45626
722003.266	4294287.999	8506	21-Dec-13	ALEX122113C.SSF	587411.4139	45627
722002.606	4294287.36	8786	21-Dec-13	ALEX122113C.SSF	587412.474	45628
722002.103	4294286.629	9546	21-Dec-13	ALEX122113C.SSF	587413.425	45629
722001.662	4294285.918	8896	21-Dec-13	ALEX122113C.SSF	587414.399	45630
722001.2	4294285.312	7984	21-Dec-13	ALEX122113C.SSF	587415.369	45631

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722000.668	4294284.583	7006	21-Dec-13	ALEX122113C.SSF	587416.458	45632
722000.246	4294284.054	8951	21-Dec-13	ALEX122113C.SSF	587417.36	45633
721999.681	4294283.432	7248	21-Dec-13	ALEX122113C.SSF	587418.4659	45634
721999.205	4294282.762	8952	21-Dec-13	ALEX122113C.SSF	587419.364	45635
721998.715	4294281.967	7728	21-Dec-13	ALEX122113C.SSF	587420.3149	45636
721998.159	4294281.275	7644	21-Dec-13	ALEX122113C.SSF	587421.3149	45637
721997.527	4294280.585	7240	21-Dec-13	ALEX122113C.SSF	587422.402	45638
721997.042	4294279.827	6520	21-Dec-13	ALEX122113C.SSF	587423.3521	45639
721996.526	4294279.094	6280	21-Dec-13	ALEX122113C.SSF	587424.3929	45640
721995.923	4294278.684	5940	21-Dec-13	ALEX122113C.SSF	587425.406	45641
721995.279	4294278.256	5486	21-Dec-13	ALEX122113C.SSF	587426.425	45642
721994.767	4294277.637	5906	21-Dec-13	ALEX122113C.SSF	587427.368	45643
721994.286	4294276.924	5557	21-Dec-13	ALEX122113C.SSF	587428.35	45644
721993.763	4294276.38	5368	21-Dec-13	ALEX122113C.SSF	587429.28	45645
721993.137	4294275.766	5584	21-Dec-13	ALEX122113C.SSF	587430.417	45646
721992.714	4294275.071	5174	21-Dec-13	ALEX122113C.SSF	587431.385	45647
721992.189	4294274.406	5625	21-Dec-13	ALEX122113C.SSF	587432.484	45648
721991.676	4294274.009	5508	21-Dec-13	ALEX122113C.SSF	587433.392	45649
721991.229	4294273.364	5228	21-Dec-13	ALEX122113C.SSF	587434.39	45650
721990.843	4294272.532	4793	21-Dec-13	ALEX122113C.SSF	587435.401	45651
721990.185	4294271.97	4736	21-Dec-13	ALEX122113C.SSF	587436.4561	45652
721989.546	4294271.659	5094	21-Dec-13	ALEX122113C.SSF	587437.349	45653
721989.004	4294271.023	5370	21-Dec-13	ALEX122113C.SSF	587438.507	45654
721988.642	4294270.485	5825	21-Dec-13	ALEX122113C.SSF	587439.365	45655
721988.089	4294269.942	6254	21-Dec-13	ALEX122113C.SSF	587440.402	45656
721987.665	4294269.426	7593	21-Dec-13	ALEX122113C.SSF	587441.3979	45657
721987.35	4294268.954	7298	21-Dec-13	ALEX122113C.SSF	587442.3459	45658
721986.982	4294268.442	5961	21-Dec-13	ALEX122113C.SSF	587443.4091	45659
721986.684	4294267.867	6960	21-Dec-13	ALEX122113C.SSF	587444.377	45660
721986.37	4294267.265	6750	21-Dec-13	ALEX122113C.SSF	587445.338	45661
721985.887	4294266.738	7687	21-Dec-13	ALEX122113C.SSF	587446.397	45662
721985.462	4294266.286	7262	21-Dec-13	ALEX122113C.SSF	587447.363	45663
721984.986	4294265.721	8295	21-Dec-13	ALEX122113C.SSF	587448.446	45664
721984.456	4294265.239	7653	21-Dec-13	ALEX122113C.SSF	587449.415	45665
721983.983	4294264.731	6923	21-Dec-13	ALEX122113C.SSF	587450.387	45666
721983.565	4294264.218	8001	21-Dec-13	ALEX122113C.SSF	587451.3929	45667
721983.026	4294263.929	6830	21-Dec-13	ALEX122113C.SSF	587452.453	45668
721982.661	4294263.826	5457	21-Dec-13	ALEX122113C.SSF	587453.42	45669
721982.616	4294263.762	5799	21-Dec-13	ALEX122113C.SSF	587454.396	45670
721982.73	4294263.714	5925	21-Dec-13	ALEX122113C.SSF	587455.327	45671
721982.722	4294263.674	6025	21-Dec-13	ALEX122113C.SSF	587456.478	45672
721982.709	4294263.648	5624	21-Dec-13	ALEX122113C.SSF	587457.382	45673
721982.78	4294263.623	5601	21-Dec-13	ALEX122113C.SSF	587458.374	45674
721982.855	4294263.607	6083	21-Dec-13	ALEX122113C.SSF	587459.361	45675
721982.894	4294263.602	5476	21-Dec-13	ALEX122113C.SSF	587460.428	45676
721982.937	4294263.635	5502	21-Dec-13	ALEX122113C.SSF	587461.4399	45677
721983.012	4294263.665	5997	21-Dec-13	ALEX122113C.SSF	587462.447	45678

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721983.025	4294263.555	6644	21-Dec-13	ALEX122113C.SSF	587463.321	45679
721983.109	4294263.011	5951	21-Dec-13	ALEX122113C.SSF	587464.4399	45680
721983.46	4294262.468	5612	21-Dec-13	ALEX122113C.SSF	587465.3719	45681
721983.741	4294262.196	5729	21-Dec-13	ALEX122113C.SSF	587466.442	45682
721983.648	4294262.045	5667	21-Dec-13	ALEX122113C.SSF	587467.4139	45683
721983.519	4294261.704	5715	21-Dec-13	ALEX122113C.SSF	587468.459	45684
721983.487	4294261.548	5900	21-Dec-13	ALEX122113C.SSF	587469.381	45685
721983.475	4294261.612	7237	21-Dec-13	ALEX122113C.SSF	587470.4041	45686
721983.467	4294261.659	6399	21-Dec-13	ALEX122113C.SSF	587471.364	45687
721983.579	4294261.714	6400	21-Dec-13	ALEX122113C.SSF	587472.365	45688
721983.799	4294262.008	7420	21-Dec-13	ALEX122113C.SSF	587473.321	45689
721984.248	4294262.721	7045	21-Dec-13	ALEX122113C.SSF	587474.411	45690
721984.801	4294263.441	6261	21-Dec-13	ALEX122113C.SSF	587475.359	45691
721985.274	4294264.05	7325	21-Dec-13	ALEX122113C.SSF	587476.467	45692
721985.505	4294264.306	7951	21-Dec-13	ALEX122113C.SSF	587477.4561	45693
721985.715	4294264.637	7177	21-Dec-13	ALEX122113C.SSF	587478.411	45694
721986.092	4294265.352	8064	21-Dec-13	ALEX122113C.SSF	587479.413	45695
721986.667	4294266.207	7926	21-Dec-13	ALEX122113C.SSF	587480.437	45696
721987.005	4294266.768	7741	21-Dec-13	ALEX122113C.SSF	587481.3521	45697
721987.136	4294267.148	7065	21-Dec-13	ALEX122113C.SSF	587482.447	45698
721987.427	4294267.592	7016	21-Dec-13	ALEX122113C.SSF	587483.42	45699
721987.884	4294268.25	7424	21-Dec-13	ALEX122113C.SSF	587484.447	45700
721988.203	4294268.612	6806	21-Dec-13	ALEX122113C.SSF	587485.33	45701
721988.337	4294268.671	6921	21-Dec-13	ALEX122113C.SSF	587486.371	45702
721988.306	4294268.649	7280	21-Dec-13	ALEX122113C.SSF	587487.377	45703
721988.306	4294268.661	6920	21-Dec-13	ALEX122113C.SSF	587488.4139	45704
721988.31	4294268.701	7130	21-Dec-13	ALEX122113C.SSF	587489.385	45705
721988.272	4294268.738	6702	21-Dec-13	ALEX122113C.SSF	587490.45	45706
721988.384	4294268.812	6805	21-Dec-13	ALEX122113C.SSF	587491.285	45707
721988.935	4294269.299	6921	21-Dec-13	ALEX122113C.SSF	587492.395	45708
721989.326	4294269.851	5870	21-Dec-13	ALEX122113C.SSF	587493.3101	45709
721989.531	4294270.163	5694	21-Dec-13	ALEX122113C.SSF	587494.306	45710
721989.909	4294270.486	5820	21-Dec-13	ALEX122113C.SSF	587495.324	45711
721990.531	4294271.3	5801	21-Dec-13	ALEX122113C.SSF	587496.412	45712
721991.138	4294271.996	6405	21-Dec-13	ALEX122113C.SSF	587497.3051	45713
721991.753	4294272.663	5162	21-Dec-13	ALEX122113C.SSF	587498.363	45714
721992.103	4294273.259	5251	21-Dec-13	ALEX122113C.SSF	587499.251	45715
721992.674	4294273.971	5436	21-Dec-13	ALEX122113C.SSF	587500.376	45716
721993.102	4294274.432	5210	21-Dec-13	ALEX122113C.SSF	587501.319	45717
721993.49	4294274.829	4895	21-Dec-13	ALEX122113C.SSF	587502.349	45718
721994.149	4294275.19	4719	21-Dec-13	ALEX122113C.SSF	587503.426	45719
721994.801	4294275.749	4964	21-Dec-13	ALEX122113C.SSF	587504.426	45720
721995.326	4294276.43	5417	21-Dec-13	ALEX122113C.SSF	587505.3719	45721
721995.866	4294277.01	5387	21-Dec-13	ALEX122113C.SSF	587506.3459	45722
721996.424	4294277.572	5662	21-Dec-13	ALEX122113C.SSF	587507.338	45723
721996.875	4294278.423	5495	21-Dec-13	ALEX122113C.SSF	587508.4611	45724
721997.245	4294279.019	5341	21-Dec-13	ALEX122113C.SSF	587509.4	45725

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721997.876	4294279.623	5501	21-Dec-13	ALEX122113C.SSF	587510.405	45726
721998.453	4294280.296	6342	21-Dec-13	ALEX122113C.SSF	587511.368	45727
721998.916	4294280.882	6265	21-Dec-13	ALEX122113C.SSF	587512.46	45728
721999.489	4294281.277	7176	21-Dec-13	ALEX122113C.SSF	587513.3831	45729
722000.098	4294281.845	7434	21-Dec-13	ALEX122113C.SSF	587514.403	45730
722000.431	4294282.529	8908	21-Dec-13	ALEX122113C.SSF	587515.3149	45731
722000.989	4294283.301	7747	21-Dec-13	ALEX122113C.SSF	587516.38	45732
722001.669	4294283.924	8296	21-Dec-13	ALEX122113C.SSF	587517.366	45733
722002.298	4294284.592	8794	21-Dec-13	ALEX122113C.SSF	587518.3621	45734
722002.9	4294285.075	9068	21-Dec-13	ALEX122113C.SSF	587519.3831	45735
722003.508	4294285.566	8477	21-Dec-13	ALEX122113C.SSF	587520.425	45736
722004.013	4294286.251	7909	21-Dec-13	ALEX122113C.SSF	587521.327	45737
722004.635	4294287.045	7797	21-Dec-13	ALEX122113C.SSF	587522.441	45738
722005.089	4294287.535	7498	21-Dec-13	ALEX122113C.SSF	587523.353	45739
722005.557	4294288.181	8302	21-Dec-13	ALEX122113C.SSF	587524.339	45740
722006.187	4294288.839	8675	21-Dec-13	ALEX122113C.SSF	587525.3879	45741
722006.695	4294289.275	7748	21-Dec-13	ALEX122113C.SSF	587526.348	45742
722007.107	4294289.823	8507	21-Dec-13	ALEX122113C.SSF	587527.344	45743
722007.788	4294290.508	7796	21-Dec-13	ALEX122113C.SSF	587528.427	45744
722008.314	4294291.044	7829	21-Dec-13	ALEX122113C.SSF	587529.3311	45745
722008.796	4294291.686	7537	21-Dec-13	ALEX122113C.SSF	587530.379	45746
722009.388	4294292.25	7224	21-Dec-13	ALEX122113C.SSF	587531.323	45747
722009.865	4294292.881	7386	21-Dec-13	ALEX122113C.SSF	587532.412	45748
722010.067	4294293.464	8266	21-Dec-13	ALEX122113C.SSF	587533.375	45749
722010.504	4294294.084	8096	21-Dec-13	ALEX122113C.SSF	587534.386	45750
722011.006	4294294.693	8564	21-Dec-13	ALEX122113C.SSF	587535.408	45751
722011.448	4294295.228	7991	21-Dec-13	ALEX122113C.SSF	587536.429	45752
722011.949	4294295.823	7457	21-Dec-13	ALEX122113C.SSF	587537.402	45753
722012.366	4294296.579	8554	21-Dec-13	ALEX122113C.SSF	587538.475	45754
722012.685	4294297.091	8348	21-Dec-13	ALEX122113C.SSF	587539.468	45755
722013.634	4294297.78	7286	21-Dec-13	ALEX122113C.SSF	587541.399	45756
722012.812	4294296.73	7154	21-Dec-13	ALEX122113C.SSF	587544.359	45759
722012.601	4294296.681	7548	21-Dec-13	ALEX122113C.SSF	587545.319	45760
722012.962	4294296.885	7587	21-Dec-13	ALEX122113C.SSF	587546.303	45761
722014.397	4294295.479	7446	21-Dec-13	ALEX122113C.SSF	587553.3149	45767
722014.581	4294295.442	8041	21-Dec-13	ALEX122113C.SSF	587554.375	45768
722014.814	4294295.513	8490	21-Dec-13	ALEX122113C.SSF	587555.3101	45769
722014.939	4294295.566	7912	21-Dec-13	ALEX122113C.SSF	587556.3571	45770
722014.801	4294295.517	7288	21-Dec-13	ALEX122113C.SSF	587557.37	45771
722014.552	4294295.424	7792	21-Dec-13	ALEX122113C.SSF	587558.389	45772
722014.463	4294295.33	8098	21-Dec-13	ALEX122113C.SSF	587559.338	45773
722014.438	4294295.28	7874	21-Dec-13	ALEX122113C.SSF	587560.349	45774
722014.382	4294295.309	8088	21-Dec-13	ALEX122113C.SSF	587561.299	45775
722014.36	4294295.339	7482	21-Dec-13	ALEX122113C.SSF	587562.337	45776
722014.522	4294295.41	7690	21-Dec-13	ALEX122113C.SSF	587563.309	45777
722014.817	4294295.47	8612	21-Dec-13	ALEX122113C.SSF	587564.376	45778
722014.895	4294295.428	7613	21-Dec-13	ALEX122113C.SSF	587565.359	45779

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722014.828	4294295.25	8863	21-Dec-13	ALEX122113C.SSF	587566.332	45780
722014.821	4294294.905	8366	21-Dec-13	ALEX122113C.SSF	587567.3621	45781
722014.864	4294294.618	8451	21-Dec-13	ALEX122113C.SSF	587568.3929	45782
722014.81	4294294.559	7602	21-Dec-13	ALEX122113C.SSF	587569.326	45783
722014.721	4294294.677	7870	21-Dec-13	ALEX122113C.SSF	587570.3	45784
722014.746	4294294.91	8027	21-Dec-13	ALEX122113C.SSF	587571.271	45785
722014.423	4294294.698	7856	21-Dec-13	ALEX122113C.SSF	587572.368	45786
722013.993	4294294.081	8504	21-Dec-13	ALEX122113C.SSF	587573.264	45787
722013.648	4294293.485	7826	21-Dec-13	ALEX122113C.SSF	587574.317	45788
722013.169	4294293.014	8106	21-Dec-13	ALEX122113C.SSF	587575.3101	45789
722012.568	4294292.222	7336	21-Dec-13	ALEX122113C.SSF	587576.373	45790
722012.111	4294291.546	9244	21-Dec-13	ALEX122113C.SSF	587577.338	45791
722011.557	4294291.018	8491	21-Dec-13	ALEX122113C.SSF	587578.332	45792
722011.015	4294290.334	7672	21-Dec-13	ALEX122113C.SSF	587579.385	45793
722010.488	4294289.634	7618	21-Dec-13	ALEX122113C.SSF	587580.358	45794
722009.758	4294289.013	8264	21-Dec-13	ALEX122113C.SSF	587581.39	45795
722009.152	4294288.472	7466	21-Dec-13	ALEX122113C.SSF	587582.374	45796
722008.619	4294287.788	8136	21-Dec-13	ALEX122113C.SSF	587583.437	45797
722008.015	4294287.216	8364	21-Dec-13	ALEX122113C.SSF	587584.3831	45798
722007.513	4294286.755	8031	21-Dec-13	ALEX122113C.SSF	587585.304	45799
722007.062	4294286.245	7977	21-Dec-13	ALEX122113C.SSF	587586.339	45800
722006.437	4294285.714	8204	21-Dec-13	ALEX122113C.SSF	587587.283	45801
722005.598	4294284.957	7481	21-Dec-13	ALEX122113C.SSF	587588.4139	45802
722005.125	4294284.255	7540	21-Dec-13	ALEX122113C.SSF	587589.321	45803
722004.594	4294283.611	7555	21-Dec-13	ALEX122113C.SSF	587590.368	45804
722003.98	4294283.043	7408	21-Dec-13	ALEX122113C.SSF	587591.392	45805
722003.498	4294282.431	8812	21-Dec-13	ALEX122113C.SSF	587592.415	45806
722003.139	4294282.088	9223	21-Dec-13	ALEX122113C.SSF	587593.3719	45807
722002.626	4294281.885	8605	21-Dec-13	ALEX122113C.SSF	587594.391	45808
722002.113	4294281.458	7701	21-Dec-13	ALEX122113C.SSF	587595.374	45809
722001.828	4294280.908	7685	21-Dec-13	ALEX122113C.SSF	587596.3979	45810
722001.8	4294280.684	7021	21-Dec-13	ALEX122113C.SSF	587597.302	45811
722001.793	4294280.776	7185	21-Dec-13	ALEX122113C.SSF	587598.451	45812
722001.686	4294280.887	6806	21-Dec-13	ALEX122113C.SSF	587599.302	45813
722001.474	4294280.729	7221	21-Dec-13	ALEX122113C.SSF	587600.36	45814
722001.205	4294280.279	7625	21-Dec-13	ALEX122113C.SSF	587601.2939	45815
722000.769	4294279.763	7516	21-Dec-13	ALEX122113C.SSF	587602.326	45816
722000.338	4294279.253	6799	21-Dec-13	ALEX122113C.SSF	587603.313	45817
721999.975	4294278.584	6319	21-Dec-13	ALEX122113C.SSF	587604.355	45818
721999.594	4294278.017	5790	21-Dec-13	ALEX122113C.SSF	587605.313	45819
721998.976	4294277.581	5731	21-Dec-13	ALEX122113C.SSF	587606.4139	45820
721998.47	4294277.116	5526	21-Dec-13	ALEX122113C.SSF	587607.355	45821
721998.105	4294276.461	5471	21-Dec-13	ALEX122113C.SSF	587608.339	45822
721997.722	4294275.861	5635	21-Dec-13	ALEX122113C.SSF	587609.374	45823
721997.289	4294275.353	5554	21-Dec-13	ALEX122113C.SSF	587610.3831	45824
721996.938	4294274.806	5682	21-Dec-13	ALEX122113C.SSF	587611.411	45825
721996.487	4294274.358	5303	21-Dec-13	ALEX122113C.SSF	587612.38	45826

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721995.945	4294273.869	5525	21-Dec-13	ALEX122113C.SSF	587613.437	45827
721995.692	4294273.368	5553	21-Dec-13	ALEX122113C.SSF	587614.34	45828
721995.423	4294272.92	5426	21-Dec-13	ALEX122113C.SSF	587615.391	45829
721995.252	4294272.793	4792	21-Dec-13	ALEX122113C.SSF	587616.415	45830
721995.311	4294272.859	5065	21-Dec-13	ALEX122113C.SSF	587617.334	45831
721995.322	4294273.009	5189	21-Dec-13	ALEX122113C.SSF	587618.412	45832
721995.239	4294273.081	5124	21-Dec-13	ALEX122113C.SSF	587619.381	45833
721995.229	4294273.031	5702	21-Dec-13	ALEX122113C.SSF	587620.369	45834
721995.197	4294272.915	5307	21-Dec-13	ALEX122113C.SSF	587621.326	45835
721995.167	4294272.81	5167	21-Dec-13	ALEX122113C.SSF	587622.302	45836
721995.236	4294272.776	5366	21-Dec-13	ALEX122113C.SSF	587623.283	45837
721995.279	4294272.769	5493	21-Dec-13	ALEX122113C.SSF	587624.3311	45838
721995.233	4294272.735	5595	21-Dec-13	ALEX122113C.SSF	587625.318	45839
721995.069	4294272.662	5397	21-Dec-13	ALEX122113C.SSF	587626.392	45840
721994.994	4294272.586	5923	21-Dec-13	ALEX122113C.SSF	587627.3409	45841
721994.906	4294272.612	5514	21-Dec-13	ALEX122113C.SSF	587628.3719	45842
721994.787	4294272.63	5404	21-Dec-13	ALEX122113C.SSF	587629.394	45843
721994.902	4294272.513	5177	21-Dec-13	ALEX122113C.SSF	587630.4091	45844
721995.075	4294272.412	5642	21-Dec-13	ALEX122113C.SSF	587631.3311	45845
721995.125	4294272.323	5423	21-Dec-13	ALEX122113C.SSF	587632.3879	45846
721995.102	4294272.303	5833	21-Dec-13	ALEX122113C.SSF	587633.385	45847
721995.06	4294272.323	5681	21-Dec-13	ALEX122113C.SSF	587634.358	45848
721995.012	4294272.317	5633	21-Dec-13	ALEX122113C.SSF	587635.364	45849
721994.975	4294272.31	5418	21-Dec-13	ALEX122113C.SSF	587636.324	45850
721994.902	4294272.313	5380	21-Dec-13	ALEX122113C.SSF	587637.324	45851
721994.788	4294272.23	5239	21-Dec-13	ALEX122113C.SSF	587638.343	45852
721994.866	4294272.06	5542	21-Dec-13	ALEX122113C.SSF	587639.326	45853
721995.035	4294272.02	5434	21-Dec-13	ALEX122113C.SSF	587640.39	45854
721995.076	4294272.064	4992	21-Dec-13	ALEX122113C.SSF	587641.335	45855
721994.969	4294272.092	4713	21-Dec-13	ALEX122113C.SSF	587642.374	45856
721994.822	4294272.149	4481	21-Dec-13	ALEX122113C.SSF	587643.316	45857
721994.763	4294272.229	4950	21-Dec-13	ALEX122113C.SSF	587644.298	45858
721994.713	4294272.233	5582	21-Dec-13	ALEX122113C.SSF	587645.359	45859
721994.686	4294272.234	5180	21-Dec-13	ALEX122113C.SSF	587646.324	45860
721994.737	4294272.245	4781	21-Dec-13	ALEX122113C.SSF	587647.366	45861
721994.772	4294272.229	4961	21-Dec-13	ALEX122113C.SSF	587648.416	45862
721994.834	4294272.224	5558	21-Dec-13	ALEX122113C.SSF	587649.353	45863
721994.847	4294272.188	5444	21-Dec-13	ALEX122113C.SSF	587650.369	45864
721994.796	4294272.176	4930	21-Dec-13	ALEX122113C.SSF	587651.3051	45865
721994.792	4294272.217	5240	21-Dec-13	ALEX122113C.SSF	587652.368	45866
721994.853	4294272.191	5707	21-Dec-13	ALEX122113C.SSF	587653.3051	45867
721994.9	4294272.157	5393	21-Dec-13	ALEX122113C.SSF	587654.349	45868
721994.85	4294272.149	5726	21-Dec-13	ALEX122113C.SSF	587655.382	45869
721994.834	4294272.133	5523	21-Dec-13	ALEX122113C.SSF	587656.448	45870
721994.811	4294272.141	5342	21-Dec-13	ALEX122113C.SSF	587657.252	45871
721994.721	4294272.177	5562	21-Dec-13	ALEX122113C.SSF	587658.4	45872
721994.667	4294272.188	5603	21-Dec-13	ALEX122113C.SSF	587659.344	45873

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721994.637	4294272.159	5754	21-Dec-13	ALEX122113C.SSF	587660.363	45874
721994.626	4294272.053	5142	21-Dec-13	ALEX122113C.SSF	587661.317	45875
721994.657	4294271.817	5502	21-Dec-13	ALEX122113C.SSF	587662.379	45876
721994.677	4294271.579	5150	21-Dec-13	ALEX122113C.SSF	587663.281	45877
721994.607	4294271.398	5732	21-Dec-13	ALEX122113C.SSF	587664.322	45878
721994.378	4294271.288	6119	21-Dec-13	ALEX122113C.SSF	587665.285	45879
721994.188	4294271.13	5370	21-Dec-13	ALEX122113C.SSF	587666.344	45880
721994.033	4294271.026	5098	21-Dec-13	ALEX122113C.SSF	587667.309	45881
721993.937	4294270.854	5290	21-Dec-13	ALEX122113C.SSF	587668.3149	45882
721993.928	4294270.578	5315	21-Dec-13	ALEX122113C.SSF	587669.288	45883
721993.943	4294270.3	5585	21-Dec-13	ALEX122113C.SSF	587670.369	45884
721993.911	4294270.161	5796	21-Dec-13	ALEX122113C.SSF	587671.332	45885
721993.747	4294270.128	6553	21-Dec-13	ALEX122113C.SSF	587672.3669	45886
721993.677	4294270.268	5958	21-Dec-13	ALEX122113C.SSF	587673.3621	45887
721993.737	4294270.453	5924	21-Dec-13	ALEX122113C.SSF	587674.391	45888
721993.765	4294270.572	5515	21-Dec-13	ALEX122113C.SSF	587675.285	45889
721993.68	4294270.625	5682	21-Dec-13	ALEX122113C.SSF	587676.326	45890
721993.692	4294270.61	6008	21-Dec-13	ALEX122113C.SSF	587677.302	45891
721993.706	4294270.556	6258	21-Dec-13	ALEX122113C.SSF	587678.269	45892
721993.718	4294270.509	7384	21-Dec-13	ALEX122113C.SSF	587679.3	45893
721993.746	4294270.473	6406	21-Dec-13	ALEX122113C.SSF	587680.355	45894
721993.744	4294270.465	6521	21-Dec-13	ALEX122113C.SSF	587681.306	45895
721993.741	4294270.464	6010	21-Dec-13	ALEX122113C.SSF	587682.339	45896
721993.746	4294270.452	6013	21-Dec-13	ALEX122113C.SSF	587683.3051	45897
721993.737	4294270.425	5745	21-Dec-13	ALEX122113C.SSF	587684.3199	45898
721993.744	4294270.391	5624	21-Dec-13	ALEX122113C.SSF	587685.3199	45899
721993.74	4294270.325	6024	21-Dec-13	ALEX122113C.SSF	587686.321	45900
721993.647	4294270.145	5698	21-Dec-13	ALEX122113C.SSF	587687.261	45901
721993.583	4294269.885	5928	21-Dec-13	ALEX122113C.SSF	587688.392	45902
721993.503	4294269.792	6124	21-Dec-13	ALEX122113C.SSF	587689.335	45903
721993.267	4294269.658	6871	21-Dec-13	ALEX122113C.SSF	587690.353	45904
721992.951	4294269.562	7687	21-Dec-13	ALEX122113C.SSF	587691.244	45905
721992.744	4294269.598	7052	21-Dec-13	ALEX122113C.SSF	587692.313	45906
721992.856	4294269.609	6683	21-Dec-13	ALEX122113C.SSF	587693.28	45907
721992.976	4294269.574	6200	21-Dec-13	ALEX122113C.SSF	587694.345	45908
721993.061	4294269.549	6560	21-Dec-13	ALEX122113C.SSF	587695.304	45909
721993.135	4294269.542	6380	21-Dec-13	ALEX122113C.SSF	587696.376	45910
721993.145	4294269.532	5662	21-Dec-13	ALEX122113C.SSF	587697.3571	45911
721993.159	4294269.501	5525	21-Dec-13	ALEX122113C.SSF	587698.38	45912
721993.167	4294269.463	5643	21-Dec-13	ALEX122113C.SSF	587699.361	45913
721993.034	4294269.419	5701	21-Dec-13	ALEX122113C.SSF	587700.377	45914
721992.941	4294269.427	6341	21-Dec-13	ALEX122113C.SSF	587701.275	45915
721993.087	4294269.486	6415	21-Dec-13	ALEX122113C.SSF	587702.3571	45916
721993.174	4294269.484	6644	21-Dec-13	ALEX122113C.SSF	587703.267	45917
721993.181	4294269.469	6461	21-Dec-13	ALEX122113C.SSF	587704.299	45918
721993.194	4294269.431	6985	21-Dec-13	ALEX122113C.SSF	587705.298	45919
721993.137	4294269.268	6276	21-Dec-13	ALEX122113C.SSF	587706.379	45920

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721993.076	4294269.064	6238	21-Dec-13	ALEX122113C.SSF	587707.309	45921
721992.971	4294268.894	6599	21-Dec-13	ALEX122113C.SSF	587708.329	45922
721992.752	4294268.543	7230	21-Dec-13	ALEX122113C.SSF	587709.342	45923
721992.342	4294268.019	7327	21-Dec-13	ALEX122113C.SSF	587710.392	45924
721991.897	4294267.68	6211	21-Dec-13	ALEX122113C.SSF	587711.297	45925
721991.458	4294267.33	7162	21-Dec-13	ALEX122113C.SSF	587712.399	45926
721991.228	4294267.06	7670	21-Dec-13	ALEX122113C.SSF	587713.282	45927
721990.99	4294266.683	7227	21-Dec-13	ALEX122113C.SSF	587714.301	45928
721990.622	4294266.183	7477	21-Dec-13	ALEX122113C.SSF	587715.3409	45929
721990.045	4294265.818	7449	21-Dec-13	ALEX122113C.SSF	587716.387	45930
721989.492	4294265.437	7052	21-Dec-13	ALEX122113C.SSF	587717.335	45931
721988.995	4294264.982	8123	21-Dec-13	ALEX122113C.SSF	587718.33	45932
721988.491	4294264.617	7790	21-Dec-13	ALEX122113C.SSF	587719.322	45933
721988.061	4294264.098	7287	21-Dec-13	ALEX122113C.SSF	587720.334	45934
721987.726	4294263.519	7582	21-Dec-13	ALEX122113C.SSF	587721.306	45935
721987.272	4294263.051	7505	21-Dec-13	ALEX122113C.SSF	587722.375	45936
721986.831	4294262.624	7396	21-Dec-13	ALEX122113C.SSF	587723.29	45937
721986.287	4294262.103	6619	21-Dec-13	ALEX122113C.SSF	587724.403	45938
721985.926	4294261.763	6514	21-Dec-13	ALEX122113C.SSF	587725.382	45939
721985.709	4294261.46	6818	21-Dec-13	ALEX122113C.SSF	587726.45	45940
721985.458	4294261.365	5664	21-Dec-13	ALEX122113C.SSF	587727.349	45941
721985.131	4294261.471	5954	21-Dec-13	ALEX122113C.SSF	587728.382	45942
721984.967	4294261.586	5801	21-Dec-13	ALEX122113C.SSF	587729.335	45943
721984.912	4294261.619	5648	21-Dec-13	ALEX122113C.SSF	587730.3459	45944
721984.838	4294261.621	5794	21-Dec-13	ALEX122113C.SSF	587731.311	45945
721984.767	4294261.594	6598	21-Dec-13	ALEX122113C.SSF	587732.285	45946
721984.967	4294261.498	6344	21-Dec-13	ALEX122113C.SSF	587733.344	45947
721985.077	4294261.281	6596	21-Dec-13	ALEX122113C.SSF	587734.387	45948
721985.064	4294260.963	6839	21-Dec-13	ALEX122113C.SSF	587735.381	45949
721985.341	4294260.704	6479	21-Dec-13	ALEX122113C.SSF	587736.431	45950
721985.718	4294260.593	5760	21-Dec-13	ALEX122113C.SSF	587737.373	45951
721985.754	4294260.603	5490	21-Dec-13	ALEX122113C.SSF	587738.4	45952
721985.639	4294260.578	5848	21-Dec-13	ALEX122113C.SSF	587739.271	45953
721985.68	4294260.25	6228	21-Dec-13	ALEX122113C.SSF	587740.38	45954
721985.673	4294260.063	6447	21-Dec-13	ALEX122113C.SSF	587741.337	45955
721985.604	4294260.047	5732	21-Dec-13	ALEX122113C.SSF	587742.373	45956
721985.582	4294260.079	5909	21-Dec-13	ALEX122113C.SSF	587743.323	45957
721985.567	4294260.024	6161	21-Dec-13	ALEX122113C.SSF	587744.3051	45958
721985.51	4294259.889	5500	21-Dec-13	ALEX122113C.SSF	587745.277	45959
721985.479	4294259.822	5546	21-Dec-13	ALEX122113C.SSF	587746.311	45960
721985.475	4294259.801	7300	21-Dec-13	ALEX122113C.SSF	587747.276	45961
721985.457	4294259.777	7465	21-Dec-13	ALEX122113C.SSF	587748.277	45962
721985.463	4294259.789	6726	21-Dec-13	ALEX122113C.SSF	587749.189	45963
721985.473	4294259.765	6241	21-Dec-13	ALEX122113C.SSF	587750.376	45964
721985.422	4294259.697	6150	21-Dec-13	ALEX122113C.SSF	587751.2939	45965
721985.287	4294259.612	6637	21-Dec-13	ALEX122113C.SSF	587752.277	45966
721985.222	4294259.633	6339	21-Dec-13	ALEX122113C.SSF	587753.277	45967

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721985.27	4294259.667	6505	21-Dec-13	ALEX122113C.SSF	587754.286	45968
721985.309	4294259.617	6489	21-Dec-13	ALEX122113C.SSF	587755.254	45969
721985.395	4294259.499	6542	21-Dec-13	ALEX122113C.SSF	587756.38	45970
721985.468	4294259.403	6165	21-Dec-13	ALEX122113C.SSF	587757.327	45971
721985.533	4294259.409	6311	21-Dec-13	ALEX122113C.SSF	587758.34	45972
721985.583	4294259.524	6378	21-Dec-13	ALEX122113C.SSF	587759.303	45973
721985.577	4294259.588	5736	21-Dec-13	ALEX122113C.SSF	587760.363	45974
721985.562	4294259.553	5889	21-Dec-13	ALEX122113C.SSF	587761.347	45975
721985.594	4294259.557	6183	21-Dec-13	ALEX122113C.SSF	587762.354	45976
721985.629	4294259.579	6975	21-Dec-13	ALEX122113C.SSF	587763.3101	45977
721985.668	4294259.506	6423	21-Dec-13	ALEX122113C.SSF	587764.426	45978
721985.706	4294259.429	6676	21-Dec-13	ALEX122113C.SSF	587765.287	45979
721985.699	4294259.291	6259	21-Dec-13	ALEX122113C.SSF	587766.3361	45980
721985.636	4294259.231	5947	21-Dec-13	ALEX122113C.SSF	587767.3361	45981
721985.585	4294259.319	5620	21-Dec-13	ALEX122113C.SSF	587768.298	45982
721985.62	4294259.404	5328	21-Dec-13	ALEX122113C.SSF	587769.34	45983
721985.529	4294259.433	5345	21-Dec-13	ALEX122113C.SSF	587770.361	45984
721985.223	4294259.466	5766	21-Dec-13	ALEX122113C.SSF	587771.327	45985
721985.04	4294259.469	6123	21-Dec-13	ALEX122113C.SSF	587772.338	45986
721984.995	4294259.455	6300	21-Dec-13	ALEX122113C.SSF	587773.303	45987
721985.031	4294259.452	6615	21-Dec-13	ALEX122113C.SSF	587774.344	45988
721985.122	4294259.461	6170	21-Dec-13	ALEX122113C.SSF	587775.295	45989
721985.155	4294259.428	6762	21-Dec-13	ALEX122113C.SSF	587776.301	45990
721985.17	4294259.407	6460	21-Dec-13	ALEX122113C.SSF	587777.2841	45991
721985.203	4294259.409	5737	21-Dec-13	ALEX122113C.SSF	587778.2271	45992
721985.243	4294259.414	6175	21-Dec-13	ALEX122113C.SSF	587779.213	45993
721985.31	4294259.431	6673	21-Dec-13	ALEX122113C.SSF	587780.354	45994
721985.548	4294259.588	7188	21-Dec-13	ALEX122113C.SSF	587781.314	45995
721986.098	4294260.016	7437	21-Dec-13	ALEX122113C.SSF	587782.307	45996
721986.593	4294260.578	6989	21-Dec-13	ALEX122113C.SSF	587783.307	45997
721986.941	4294261.156	6607	21-Dec-13	ALEX122113C.SSF	587784.313	45998
721987.545	4294261.766	7141	21-Dec-13	ALEX122113C.SSF	587785.288	45999
721988.098	4294262.368	8445	21-Dec-13	ALEX122113C.SSF	587786.327	46000
721988.244	4294262.666	7361	21-Dec-13	ALEX122113C.SSF	587787.272	46001
721988.435	4294262.986	7450	21-Dec-13	ALEX122113C.SSF	587788.325	46002
721988.799	4294263.493	8492	21-Dec-13	ALEX122113C.SSF	587789.262	46003
721989.482	4294264.268	7583	21-Dec-13	ALEX122113C.SSF	587790.354	46004
721989.968	4294264.901	7895	21-Dec-13	ALEX122113C.SSF	587791.156	46005
721990.182	4294265.325	7494	21-Dec-13	ALEX122113C.SSF	587792.3149	46006
721990.347	4294265.451	9373	21-Dec-13	ALEX122113C.SSF	587793.261	46007
721990.75	4294265.847	8973	21-Dec-13	ALEX122113C.SSF	587794.285	46008
721991.234	4294266.391	7943	21-Dec-13	ALEX122113C.SSF	587795.27	46009
721991.652	4294267.064	7865	21-Dec-13	ALEX122113C.SSF	587796.3101	46010
721991.894	4294267.506	7906	21-Dec-13	ALEX122113C.SSF	587797.277	46011
721992.339	4294267.882	8336	21-Dec-13	ALEX122113C.SSF	587798.308	46012
721992.85	4294268.491	6944	21-Dec-13	ALEX122113C.SSF	587799.274	46013
721993.327	4294269.045	6236	21-Dec-13	ALEX122113C.SSF	587800.368	46014

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721993.609	4294269.434	6389	21-Dec-13	ALEX122113C.SSF	587801.3409	46015
721993.848	4294269.915	6577	21-Dec-13	ALEX122113C.SSF	587802.303	46016
721994.381	4294270.394	5766	21-Dec-13	ALEX122113C.SSF	587803.317	46017
721994.949	4294270.899	5591	21-Dec-13	ALEX122113C.SSF	587804.359	46018
721995.241	4294271.387	5672	21-Dec-13	ALEX122113C.SSF	587805.274	46019
721995.695	4294271.828	5973	21-Dec-13	ALEX122113C.SSF	587806.309	46020
721996.095	4294272.141	5317	21-Dec-13	ALEX122113C.SSF	587807.2111	46021
721996.366	4294272.519	5233	21-Dec-13	ALEX122113C.SSF	587808.3571	46022
721996.862	4294272.947	5126	21-Dec-13	ALEX122113C.SSF	587809.328	46023
721997.469	4294273.486	5103	21-Dec-13	ALEX122113C.SSF	587810.3781	46024
721997.836	4294273.847	5338	21-Dec-13	ALEX122113C.SSF	587811.286	46025
721998.48	4294274.314	5342	21-Dec-13	ALEX122113C.SSF	587812.422	46026
721998.977	4294274.854	5262	21-Dec-13	ALEX122113C.SSF	587813.295	46027
721999.454	4294275.541	4917	21-Dec-13	ALEX122113C.SSF	587814.343	46028
722000.076	4294276.162	5248	21-Dec-13	ALEX122113C.SSF	587815.283	46029
722000.797	4294276.918	5165	21-Dec-13	ALEX122113C.SSF	587816.351	46030
722001.186	4294277.448	5335	21-Dec-13	ALEX122113C.SSF	587817.191	46031
722001.914	4294278.15	5806	21-Dec-13	ALEX122113C.SSF	587818.311	46032
722002.471	4294278.781	5778	21-Dec-13	ALEX122113C.SSF	587819.296	46033
722002.818	4294279.392	6190	21-Dec-13	ALEX122113C.SSF	587820.282	46034
722003.437	4294280.175	7097	21-Dec-13	ALEX122113C.SSF	587821.325	46035
722004.102	4294281.019	7144	21-Dec-13	ALEX122113C.SSF	587822.395	46036
722004.519	4294281.671	7156	21-Dec-13	ALEX122113C.SSF	587823.2841	46037
722005.069	4294282.195	8929	21-Dec-13	ALEX122113C.SSF	587824.3621	46038
722005.499	4294282.507	8052	21-Dec-13	ALEX122113C.SSF	587825.269	46039
722005.943	4294283.122	8463	21-Dec-13	ALEX122113C.SSF	587826.3051	46040
722006.511	4294283.894	8835	21-Dec-13	ALEX122113C.SSF	587827.272	46041
722007.227	4294284.662	7908	21-Dec-13	ALEX122113C.SSF	587828.33	46042
722007.758	4294285.333	8157	21-Dec-13	ALEX122113C.SSF	587829.343	46043
722008.232	4294285.815	7859	21-Dec-13	ALEX122113C.SSF	587830.3571	46044
722008.614	4294286.215	7785	21-Dec-13	ALEX122113C.SSF	587831.313	46045
722008.999	4294286.917	7796	21-Dec-13	ALEX122113C.SSF	587832.343	46046
722009.554	4294287.609	9899	21-Dec-13	ALEX122113C.SSF	587833.269	46047
722010.334	4294288.277	8624	21-Dec-13	ALEX122113C.SSF	587834.2629	46048
722010.948	4294289.07	8666	21-Dec-13	ALEX122113C.SSF	587835.309	46049
722011.391	4294289.706	7836	21-Dec-13	ALEX122113C.SSF	587836.3361	46050
722011.956	4294290.279	6399	21-Dec-13	ALEX122113C.SSF	587837.318	46051
722012.485	4294291.016	6579	21-Dec-13	ALEX122113C.SSF	587838.364	46052
722012.814	4294291.576	7135	21-Dec-13	ALEX122113C.SSF	587839.276	46053
722013.444	4294292.138	7093	21-Dec-13	ALEX122113C.SSF	587840.342	46054
722013.976	4294292.634	7383	21-Dec-13	ALEX122113C.SSF	587841.238	46055
722014.301	4294293.198	6465	21-Dec-13	ALEX122113C.SSF	587842.2841	46056
722014.595	4294293.475	6716	21-Dec-13	ALEX122113C.SSF	587843.13	46057
722014.952	4294293.847	6329	21-Dec-13	ALEX122113C.SSF	587844.307	46058
722015.196	4294294.388	5913	21-Dec-13	ALEX122113C.SSF	587845.218	46059
722016.006	4294295.018	5951	21-Dec-13	ALEX122113C.SSF	587846.377	46060
722016.778	4294295.275	6505	21-Dec-13	ALEX122113C.SSF	587847.2531	46061

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722017.522	4294295.048	7926	21-Dec-13	ALEX122113C.SSF	587848.335	46062
722017.988	4294294.316	7111	21-Dec-13	ALEX122113C.SSF	587849.297	46063
722018.302	4294293.297	6727	21-Dec-13	ALEX122113C.SSF	587850.381	46064
722018.229	4294292.628	5972	21-Dec-13	ALEX122113C.SSF	587851.297	46065
722017.724	4294292.039	6194	21-Dec-13	ALEX122113C.SSF	587852.3199	46066
722017.174	4294291.431	6378	21-Dec-13	ALEX122113C.SSF	587853.3149	46067
722016.6	4294290.872	5974	21-Dec-13	ALEX122113C.SSF	587854.399	46068
722016.049	4294290.533	5720	21-Dec-13	ALEX122113C.SSF	587855.245	46069
722015.406	4294289.95	6202	21-Dec-13	ALEX122113C.SSF	587856.364	46070
722015.001	4294289.393	6020	21-Dec-13	ALEX122113C.SSF	587857.283	46071
722014.356	4294288.848	6337	21-Dec-13	ALEX122113C.SSF	587858.356	46072
722013.819	4294288.336	6834	21-Dec-13	ALEX122113C.SSF	587859.28	46073
722013.404	4294287.64	5938	21-Dec-13	ALEX122113C.SSF	587860.353	46074
722012.858	4294287.044	6175	21-Dec-13	ALEX122113C.SSF	587861.3719	46075
722012.15	4294286.341	7484	21-Dec-13	ALEX122113C.SSF	587862.3719	46076
722011.594	4294285.43	7331	21-Dec-13	ALEX122113C.SSF	587863.366	46077
722011.158	4294284.599	7322	21-Dec-13	ALEX122113C.SSF	587864.3521	46078
722010.768	4294283.975	7621	21-Dec-13	ALEX122113C.SSF	587865.324	46079
722010.458	4294283.533	8017	21-Dec-13	ALEX122113C.SSF	587866.363	46080
722010.261	4294283.418	7644	21-Dec-13	ALEX122113C.SSF	587867.2061	46081
722010.135	4294283.5	7101	21-Dec-13	ALEX122113C.SSF	587868.288	46082
722010.155	4294283.523	8075	21-Dec-13	ALEX122113C.SSF	587869.245	46083
722010.195	4294283.506	8258	21-Dec-13	ALEX122113C.SSF	587870.269	46084
722010.175	4294283.479	7794	21-Dec-13	ALEX122113C.SSF	587871.139	46085
722009.82	4294283.386	6928	21-Dec-13	ALEX122113C.SSF	587872.2469	46086
722009.481	4294283.062	8422	21-Dec-13	ALEX122113C.SSF	587873.068	46087
722009.173	4294282.426	7625	21-Dec-13	ALEX122113C.SSF	587874.228	46088
722008.624	4294282.045	7516	21-Dec-13	ALEX122113C.SSF	587875.278	46089
722007.995	4294281.496	8029	21-Dec-13	ALEX122113C.SSF	587876.313	46090
722007.525	4294280.92	7797	21-Dec-13	ALEX122113C.SSF	587877.25	46091
722006.931	4294280.475	6479	21-Dec-13	ALEX122113C.SSF	587878.229	46092
722006.212	4294279.982	7380	21-Dec-13	ALEX122113C.SSF	587879.249	46093
722005.599	4294279.102	6855	21-Dec-13	ALEX122113C.SSF	587880.375	46094
722005.152	4294278.369	7593	21-Dec-13	ALEX122113C.SSF	587881.3669	46095
722004.626	4294277.934	5978	21-Dec-13	ALEX122113C.SSF	587882.348	46096
722004.063	4294277.504	6152	21-Dec-13	ALEX122113C.SSF	587883.257	46097
722003.439	4294276.682	5888	21-Dec-13	ALEX122113C.SSF	587884.303	46098
722002.969	4294275.953	5314	21-Dec-13	ALEX122113C.SSF	587885.283	46099
722002.433	4294275.54	5336	21-Dec-13	ALEX122113C.SSF	587886.418	46100
722001.943	4294275.236	5282	21-Dec-13	ALEX122113C.SSF	587887.295	46101
722001.435	4294274.503	4973	21-Dec-13	ALEX122113C.SSF	587888.3929	46102
722001.035	4294273.914	5197	21-Dec-13	ALEX122113C.SSF	587889.313	46103
722000.512	4294273.436	5001	21-Dec-13	ALEX122113C.SSF	587890.302	46104
722000.12	4294272.93	5213	21-Dec-13	ALEX122113C.SSF	587891.2729	46105
721999.667	4294272.446	5295	21-Dec-13	ALEX122113C.SSF	587892.318	46106
721999.166	4294272.121	5505	21-Dec-13	ALEX122113C.SSF	587893.2581	46107
721998.795	4294271.607	5317	21-Dec-13	ALEX122113C.SSF	587894.321	46108

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721998.435	4294271.04	5586	21-Dec-13	ALEX122113C.SSF	587895.297	46109
721997.923	4294270.459	5774	21-Dec-13	ALEX122113C.SSF	587896.364	46110
721997.74	4294269.863	6293	21-Dec-13	ALEX122113C.SSF	587897.2939	46111
721997.862	4294269.309	5653	21-Dec-13	ALEX122113C.SSF	587898.359	46112
721997.857	4294269.119	5737	21-Dec-13	ALEX122113C.SSF	587899.295	46113
721997.572	4294269.044	5874	21-Dec-13	ALEX122113C.SSF	587900.37	46114
721997.277	4294269.058	5788	21-Dec-13	ALEX122113C.SSF	587901.307	46115
721996.995	4294269.064	6220	21-Dec-13	ALEX122113C.SSF	587902.297	46116
721996.859	4294269.03	7015	21-Dec-13	ALEX122113C.SSF	587903.356	46117
721996.966	4294269.042	6433	21-Dec-13	ALEX122113C.SSF	587904.313	46118
721997.045	4294269.018	5778	21-Dec-13	ALEX122113C.SSF	587905.2679	46119
721997.069	4294269.005	6217	21-Dec-13	ALEX122113C.SSF	587906.2889	46120
721997.066	4294269.014	5706	21-Dec-13	ALEX122113C.SSF	587907.3311	46121
721997.088	4294269.022	6015	21-Dec-13	ALEX122113C.SSF	587908.306	46122
721997.097	4294269.02	5810	21-Dec-13	ALEX122113C.SSF	587909.218	46123
721997.091	4294269.035	5945	21-Dec-13	ALEX122113C.SSF	587910.337	46124
721997.081	4294269.042	5677	21-Dec-13	ALEX122113C.SSF	587911.397	46125
721997.078	4294269.045	5646	21-Dec-13	ALEX122113C.SSF	587912.354	46126
721997.063	4294269.034	5711	21-Dec-13	ALEX122113C.SSF	587913.194	46127
721997	4294268.995	6137	21-Dec-13	ALEX122113C.SSF	587914.327	46128
721996.974	4294268.982	5976	21-Dec-13	ALEX122113C.SSF	587915.2939	46129
721996.972	4294268.979	5811	21-Dec-13	ALEX122113C.SSF	587916.366	46130
721996.995	4294268.986	5601	21-Dec-13	ALEX122113C.SSF	587917.3	46131
721997.037	4294268.945	6023	21-Dec-13	ALEX122113C.SSF	587918.271	46132
721997.016	4294268.782	6593	21-Dec-13	ALEX122113C.SSF	587919.269	46133
721996.879	4294268.567	5742	21-Dec-13	ALEX122113C.SSF	587920.3361	46134
721996.505	4294268.216	6158	21-Dec-13	ALEX122113C.SSF	587921.297	46135
721995.963	4294267.655	5894	21-Dec-13	ALEX122113C.SSF	587922.375	46136
721995.757	4294267.415	6140	21-Dec-13	ALEX122113C.SSF	587923.313	46137
721995.667	4294267.448	7295	21-Dec-13	ALEX122113C.SSF	587924.319	46138
721995.662	4294267.501	6653	21-Dec-13	ALEX122113C.SSF	587925.174	46139
721995.707	4294267.519	5960	21-Dec-13	ALEX122113C.SSF	587926.276	46140
721995.733	4294267.577	7125	21-Dec-13	ALEX122113C.SSF	587927.262	46141
721995.731	4294267.609	6851	21-Dec-13	ALEX122113C.SSF	587928.239	46142
721995.721	4294267.644	7173	21-Dec-13	ALEX122113C.SSF	587929.243	46143
721995.718	4294267.692	7013	21-Dec-13	ALEX122113C.SSF	587930.303	46144
721995.74	4294267.713	7513	21-Dec-13	ALEX122113C.SSF	587931.361	46145
721995.767	4294267.684	7398	21-Dec-13	ALEX122113C.SSF	587932.317	46146
721995.756	4294267.642	7339	21-Dec-13	ALEX122113C.SSF	587933.326	46147
721995.641	4294267.664	7054	21-Dec-13	ALEX122113C.SSF	587934.3831	46148
721995.537	4294267.687	6953	21-Dec-13	ALEX122113C.SSF	587935.281	46149
721995.517	4294267.683	6027	21-Dec-13	ALEX122113C.SSF	587936.272	46150
721995.661	4294267.658	6580	21-Dec-13	ALEX122113C.SSF	587937.255	46151
721996.035	4294267.558	6175	21-Dec-13	ALEX122113C.SSF	587938.288	46152
721996.211	4294267.328	6733	21-Dec-13	ALEX122113C.SSF	587939.262	46153
721995.934	4294267.021	7773	21-Dec-13	ALEX122113C.SSF	587940.304	46154
721995.58	4294266.98	6713	21-Dec-13	ALEX122113C.SSF	587941.271	46155

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721995.352	4294267.054	7978	21-Dec-13	ALEX122113C.SSF	587942.267	46156
721995.244	4294267.034	7754	21-Dec-13	ALEX122113C.SSF	587943.209	46157
721995.301	4294267.033	7998	21-Dec-13	ALEX122113C.SSF	587944.198	46158
721995.356	4294267.031	7729	21-Dec-13	ALEX122113C.SSF	587945.257	46159
721995.384	4294267.03	7302	21-Dec-13	ALEX122113C.SSF	587946.316	46160
721995.398	4294267.031	7225	21-Dec-13	ALEX122113C.SSF	587947.1429	46161
721995.163	4294266.882	6636	21-Dec-13	ALEX122113C.SSF	587948.296	46162
721994.881	4294266.563	6279	21-Dec-13	ALEX122113C.SSF	587949.241	46163
721994.58	4294266.069	7209	21-Dec-13	ALEX122113C.SSF	587950.308	46164
721994.165	4294265.79	6932	21-Dec-13	ALEX122113C.SSF	587951.2531	46165
721993.689	4294265.63	7643	21-Dec-13	ALEX122113C.SSF	587952.291	46166
721993.501	4294265.483	8030	21-Dec-13	ALEX122113C.SSF	587953.277	46167
721993.542	4294265.405	6987	21-Dec-13	ALEX122113C.SSF	587954.2889	46168
721993.594	4294265.402	6907	21-Dec-13	ALEX122113C.SSF	587955.291	46169
721993.635	4294265.416	7216	21-Dec-13	ALEX122113C.SSF	587956.2791	46170
721993.662	4294265.404	6754	21-Dec-13	ALEX122113C.SSF	587957.254	46171
721993.798	4294265.179	7448	21-Dec-13	ALEX122113C.SSF	587958.347	46172
721993.832	4294264.772	7382	21-Dec-13	ALEX122113C.SSF	587959.15	46173
721993.331	4294264.122	8355	21-Dec-13	ALEX122113C.SSF	587960.334	46174
721992.857	4294263.789	8808	21-Dec-13	ALEX122113C.SSF	587961.182	46175
721992.354	4294263.341	7842	21-Dec-13	ALEX122113C.SSF	587962.297	46176
721991.957	4294263.078	9220	21-Dec-13	ALEX122113C.SSF	587963.248	46177
721991.538	4294262.805	7195	21-Dec-13	ALEX122113C.SSF	587964.299	46178
721991.049	4294262.386	8368	21-Dec-13	ALEX122113C.SSF	587965.2791	46179
721990.379	4294261.879	8002	21-Dec-13	ALEX122113C.SSF	587966.322	46180
721989.927	4294261.392	7250	21-Dec-13	ALEX122113C.SSF	587967.245	46181
721989.399	4294260.882	8292	21-Dec-13	ALEX122113C.SSF	587968.348	46182
721988.948	4294260.535	8043	21-Dec-13	ALEX122113C.SSF	587969.145	46183
721988.553	4294259.952	6810	21-Dec-13	ALEX122113C.SSF	587970.3	46184
721988.191	4294259.606	6772	21-Dec-13	ALEX122113C.SSF	587971.25	46185
721987.636	4294259.296	6973	21-Dec-13	ALEX122113C.SSF	587972.333	46186
721987.313	4294259.057	6243	21-Dec-13	ALEX122113C.SSF	587973.1541	46187
721987.031	4294259.04	6090	21-Dec-13	ALEX122113C.SSF	587974.333	46188
721986.943	4294259.138	6532	21-Dec-13	ALEX122113C.SSF	587975.303	46189
721986.941	4294259.187	6733	21-Dec-13	ALEX122113C.SSF	587976.392	46190
721986.944	4294259.189	7203	21-Dec-13	ALEX122113C.SSF	587977.338	46191
721986.949	4294259.029	5940	21-Dec-13	ALEX122113C.SSF	587978.369	46192
721987.024	4294258.617	5677	21-Dec-13	ALEX122113C.SSF	587979.316	46193
721987.45	4294258.116	5586	21-Dec-13	ALEX122113C.SSF	587980.384	46194
721987.753	4294257.843	5347	21-Dec-13	ALEX122113C.SSF	587981.318	46195
721987.582	4294257.615	5985	21-Dec-13	ALEX122113C.SSF	587982.293	46196
721987.311	4294257.523	6279	21-Dec-13	ALEX122113C.SSF	587983.132	46197
721987.207	4294257.562	6460	21-Dec-13	ALEX122113C.SSF	587984.175	46198
721987.205	4294257.648	6955	21-Dec-13	ALEX122113C.SSF	587985.093	46199
721987.303	4294257.823	6688	21-Dec-13	ALEX122113C.SSF	587986.307	46200
721987.534	4294257.934	7432	21-Dec-13	ALEX122113C.SSF	587987.274	46201
721987.725	4294258.149	7228	21-Dec-13	ALEX122113C.SSF	587988.269	46202

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721987.801	4294258.368	7447	21-Dec-13	ALEX122113C.SSF	587989.2629	46203
721988.217	4294258.76	7651	21-Dec-13	ALEX122113C.SSF	587990.277	46204
721988.803	4294259.455	8182	21-Dec-13	ALEX122113C.SSF	587991.307	46205
721989.042	4294259.891	7085	21-Dec-13	ALEX122113C.SSF	587992.183	46206
721989.34	4294260.197	8221	21-Dec-13	ALEX122113C.SSF	587993.1689	46207
721989.869	4294260.786	8025	21-Dec-13	ALEX122113C.SSF	587994.27	46208
721990.411	4294261.247	8246	21-Dec-13	ALEX122113C.SSF	587995.277	46209
721990.928	4294261.701	7011	21-Dec-13	ALEX122113C.SSF	587996.328	46210
721991.351	4294262.272	7153	21-Dec-13	ALEX122113C.SSF	587997.265	46211
721991.96	4294262.913	8058	21-Dec-13	ALEX122113C.SSF	587998.285	46212
721992.365	4294263.284	7924	21-Dec-13	ALEX122113C.SSF	587999.269	46213
721992.433	4294263.417	7681	21-Dec-13	ALEX122113C.SSF	588000.276	46214
721992.683	4294263.668	7830	21-Dec-13	ALEX122113C.SSF	588001.295	46215
721993.172	4294264.279	8587	21-Dec-13	ALEX122113C.SSF	588002.306	46216
721993.621	4294264.785	8867	21-Dec-13	ALEX122113C.SSF	588003.149	46217
721993.932	4294265.078	8726	21-Dec-13	ALEX122113C.SSF	588004.309	46218
721993.919	4294265.16	8601	21-Dec-13	ALEX122113C.SSF	588005.233	46219
721994.125	4294265.577	8540	21-Dec-13	ALEX122113C.SSF	588006.316	46220
721994.546	4294266.164	7745	21-Dec-13	ALEX122113C.SSF	588007.2679	46221
721994.925	4294266.625	8236	21-Dec-13	ALEX122113C.SSF	588008.361	46222
721995.253	4294266.956	7159	21-Dec-13	ALEX122113C.SSF	588009.183	46223
721995.929	4294267.669	6919	21-Dec-13	ALEX122113C.SSF	588010.343	46224
721996.436	4294268.224	7400	21-Dec-13	ALEX122113C.SSF	588011.171	46225
721997.003	4294268.916	6260	21-Dec-13	ALEX122113C.SSF	588012.3521	46226
721997.262	4294269.178	6005	21-Dec-13	ALEX122113C.SSF	588013.353	46227
721997.648	4294269.359	5762	21-Dec-13	ALEX122113C.SSF	588014.326	46228
721998.191	4294269.835	5356	21-Dec-13	ALEX122113C.SSF	588015.292	46229
721998.735	4294270.7	4633	21-Dec-13	ALEX122113C.SSF	588016.343	46230
721999.21	4294271.373	4871	21-Dec-13	ALEX122113C.SSF	588017.3101	46231
721999.777	4294271.877	5252	21-Dec-13	ALEX122113C.SSF	588018.251	46232
722000.358	4294272.403	5302	21-Dec-13	ALEX122113C.SSF	588019.222	46233
722000.718	4294272.839	4932	21-Dec-13	ALEX122113C.SSF	588020.33	46234
722001.164	4294273.183	5144	21-Dec-13	ALEX122113C.SSF	588021.166	46235
722001.874	4294273.978	5728	21-Dec-13	ALEX122113C.SSF	588022.231	46236
722002.408	4294274.783	5607	21-Dec-13	ALEX122113C.SSF	588023.245	46237
722003.069	4294275.468	5854	21-Dec-13	ALEX122113C.SSF	588024.218	46238
722003.779	4294276.261	5797	21-Dec-13	ALEX122113C.SSF	588025.306	46239
722004.222	4294276.81	5751	21-Dec-13	ALEX122113C.SSF	588026.287	46240
722004.71	4294277.221	6010	21-Dec-13	ALEX122113C.SSF	588027.165	46241
722005.414	4294277.879	6873	21-Dec-13	ALEX122113C.SSF	588028.238	46242
722005.897	4294278.368	6428	21-Dec-13	ALEX122113C.SSF	588029.137	46243
722006.385	4294278.789	5897	21-Dec-13	ALEX122113C.SSF	588030.193	46244
722006.813	4294279.318	6122	21-Dec-13	ALEX122113C.SSF	588031.139	46245
722007.522	4294279.995	6990	21-Dec-13	ALEX122113C.SSF	588032.293	46246
722008.279	4294280.659	7117	21-Dec-13	ALEX122113C.SSF	588033.28	46247
722008.819	4294281.383	7089	21-Dec-13	ALEX122113C.SSF	588034.1479	46248
722009.238	4294282.044	6722	21-Dec-13	ALEX122113C.SSF	588035.2841	46249

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722009.832	4294282.654	7230	21-Dec-13	ALEX122113C.SSF	588036.375	46250
722010.408	4294283.361	6337	21-Dec-13	ALEX122113C.SSF	588037.365	46251
722010.795	4294283.884	6174	21-Dec-13	ALEX122113C.SSF	588038.197	46252
722011.431	4294284.455	6065	21-Dec-13	ALEX122113C.SSF	588039.309	46253
722011.988	4294285.107	5964	21-Dec-13	ALEX122113C.SSF	588040.327	46254
722012.405	4294285.523	5927	21-Dec-13	ALEX122113C.SSF	588041.1429	46255
722012.981	4294285.933	6476	21-Dec-13	ALEX122113C.SSF	588042.312	46256
722013.431	4294286.372	5609	21-Dec-13	ALEX122113C.SSF	588043.229	46257
722014.127	4294286.958	5757	21-Dec-13	ALEX122113C.SSF	588044.269	46258
722014.628	4294287.501	5818	21-Dec-13	ALEX122113C.SSF	588045.083	46259
722015.18	4294288.112	5575	21-Dec-13	ALEX122113C.SSF	588046.2729	46260
722015.818	4294288.414	6053	21-Dec-13	ALEX122113C.SSF	588047.199	46261
722016.334	4294288.793	5805	21-Dec-13	ALEX122113C.SSF	588048.093	46262
722016.545	4294289.251	6018	21-Dec-13	ALEX122113C.SSF	588049.057	46263
722016.911	4294289.741	5376	21-Dec-13	ALEX122113C.SSF	588050.272	46264
722017.213	4294290.182	5566	21-Dec-13	ALEX122113C.SSF	588051.1219	46265
722017.733	4294290.67	5726	21-Dec-13	ALEX122113C.SSF	588052.204	46266
722018.282	4294290.945	5906	21-Dec-13	ALEX122113C.SSF	588053.153	46267
722018.449	4294290.744	5677	21-Dec-13	ALEX122113C.SSF	588054.339	46268
722018.352	4294290.468	5818	21-Dec-13	ALEX122113C.SSF	588055.166	46269
722018.275	4294290.417	5913	21-Dec-13	ALEX122113C.SSF	588056.141	46270
722018.401	4294290.568	5412	21-Dec-13	ALEX122113C.SSF	588057.123	46271
722018.598	4294290.665	5887	21-Dec-13	ALEX122113C.SSF	588058.174	46272
722018.611	4294290.668	5942	21-Dec-13	ALEX122113C.SSF	588059.1479	46273
722018.526	4294290.6	5978	21-Dec-13	ALEX122113C.SSF	588060.226	46274
722018.223	4294290.418	5620	21-Dec-13	ALEX122113C.SSF	588061.104	46275
722018.081	4294290.23	5696	21-Dec-13	ALEX122113C.SSF	588062.296	46276
722018.419	4294290.171	5836	21-Dec-13	ALEX122113C.SSF	588063.177	46277
722019.077	4294289.795	5645	21-Dec-13	ALEX122113C.SSF	588064.1541	46278
722019.712	4294289.314	5875	21-Dec-13	ALEX122113C.SSF	588065.302	46279
722019.958	4294289.023	5915	21-Dec-13	ALEX122113C.SSF	588066.3521	46280
722020.075	4294288.832	5352	21-Dec-13	ALEX122113C.SSF	588067.306	46281
722020.167	4294288.782	5148	21-Dec-13	ALEX122113C.SSF	588068.202	46282
722020.197	4294288.877	4590	21-Dec-13	ALEX122113C.SSF	588069.17	46283
722020.158	4294289.019	4982	21-Dec-13	ALEX122113C.SSF	588070.168	46284
722020.097	4294289.088	5105	21-Dec-13	ALEX122113C.SSF	588071.146	46285
722019.969	4294289.064	5496	21-Dec-13	ALEX122113C.SSF	588072.212	46286
722019.808	4294288.873	5049	21-Dec-13	ALEX122113C.SSF	588073.078	46287
722019.47	4294288.264	5502	21-Dec-13	ALEX122113C.SSF	588074.172	46288
722018.962	4294287.802	5327	21-Dec-13	ALEX122113C.SSF	588075.093	46289
722018.279	4294287.206	5779	21-Dec-13	ALEX122113C.SSF	588076.291	46290
722017.897	4294286.627	5118	21-Dec-13	ALEX122113C.SSF	588077.1689	46291
722017.181	4294285.964	5331	21-Dec-13	ALEX122113C.SSF	588078.332	46292
722016.658	4294285.549	5976	21-Dec-13	ALEX122113C.SSF	588079.168	46293
722016.207	4294284.986	5754	21-Dec-13	ALEX122113C.SSF	588080.193	46294
722015.639	4294284.521	5479	21-Dec-13	ALEX122113C.SSF	588081.196	46295
722014.991	4294283.952	5429	21-Dec-13	ALEX122113C.SSF	588082.269	46296

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722014.545	4294283.356	5844	21-Dec-13	ALEX122113C.SSF	588083.114	46297
722013.825	4294282.614	6054	21-Dec-13	ALEX122113C.SSF	588084.267	46298
722013.314	4294282.102	6350	21-Dec-13	ALEX122113C.SSF	588085.123	46299
722012.814	4294281.357	6281	21-Dec-13	ALEX122113C.SSF	588086.265	46300
722012.343	4294280.871	5700	21-Dec-13	ALEX122113C.SSF	588087.104	46301
722011.701	4294280.215	6049	21-Dec-13	ALEX122113C.SSF	588088.282	46302
722011.323	4294279.661	5165	21-Dec-13	ALEX122113C.SSF	588089.1949	46303
722010.724	4294279.055	5388	21-Dec-13	ALEX122113C.SSF	588090.254	46304
722010.16	4294278.448	5895	21-Dec-13	ALEX122113C.SSF	588091.24	46305
722009.782	4294277.865	6188	21-Dec-13	ALEX122113C.SSF	588092.1949	46306
722009.365	4294277.346	6977	21-Dec-13	ALEX122113C.SSF	588093.152	46307
722008.776	4294276.598	6874	21-Dec-13	ALEX122113C.SSF	588094.265	46308
722008.283	4294275.946	6758	21-Dec-13	ALEX122113C.SSF	588095.313	46309
722007.754	4294275.451	6759	21-Dec-13	ALEX122113C.SSF	588096.264	46310
722007.217	4294274.784	7600	21-Dec-13	ALEX122113C.SSF	588097.3149	46311
722006.855	4294274.217	6400	21-Dec-13	ALEX122113C.SSF	588098.166	46312
722006.268	4294273.766	6060	21-Dec-13	ALEX122113C.SSF	588099.092	46313
722005.514	4294273.37	5227	21-Dec-13	ALEX122113C.SSF	588100.167	46314
722005.137	4294272.824	5235	21-Dec-13	ALEX122113C.SSF	588101.113	46315
722004.732	4294272.223	5089	21-Dec-13	ALEX122113C.SSF	588102.276	46316
722004.275	4294272.08	5555	21-Dec-13	ALEX122113C.SSF	588103.1591	46317
722003.995	4294272.16	5457	21-Dec-13	ALEX122113C.SSF	588104.275	46318
722004	4294272.238	5289	21-Dec-13	ALEX122113C.SSF	588105.097	46319
722004.042	4294272.254	5578	21-Dec-13	ALEX122113C.SSF	588106.309	46320
722004.052	4294272.248	5515	21-Dec-13	ALEX122113C.SSF	588107.054	46321
722004.086	4294272.256	5217	21-Dec-13	ALEX122113C.SSF	588108.2469	46322
722004.116	4294272.251	5169	21-Dec-13	ALEX122113C.SSF	588109.2321	46323
722004.22	4294272.252	5345	21-Dec-13	ALEX122113C.SSF	588110.318	46324
722004.399	4294272.259	5369	21-Dec-13	ALEX122113C.SSF	588111.083	46325
722004.534	4294272.281	5367	21-Dec-13	ALEX122113C.SSF	588112.2371	46326
722004.324	4294272.092	5239	21-Dec-13	ALEX122113C.SSF	588113.075	46327
722003.867	4294271.389	4949	21-Dec-13	ALEX122113C.SSF	588114.265	46328
722003.514	4294270.914	5176	21-Dec-13	ALEX122113C.SSF	588115.2791	46329
722003.146	4294270.544	5544	21-Dec-13	ALEX122113C.SSF	588116.321	46330
722002.722	4294270.126	5053	21-Dec-13	ALEX122113C.SSF	588117.329	46331
722002.225	4294269.829	4815	21-Dec-13	ALEX122113C.SSF	588118.27	46332
722001.7	4294269.612	4981	21-Dec-13	ALEX122113C.SSF	588119.17	46333
722001.245	4294269.191	5359	21-Dec-13	ALEX122113C.SSF	588120.297	46334
722001.066	4294268.888	5384	21-Dec-13	ALEX122113C.SSF	588121.194	46335
722000.691	4294268.436	5714	21-Dec-13	ALEX122113C.SSF	588122.192	46336
722000.206	4294267.778	6057	21-Dec-13	ALEX122113C.SSF	588123.062	46337
721999.497	4294267.048	6306	21-Dec-13	ALEX122113C.SSF	588124.161	46338
721998.872	4294266.602	6616	21-Dec-13	ALEX122113C.SSF	588125.057	46339
721998.402	4294265.938	7384	21-Dec-13	ALEX122113C.SSF	588126.254	46340
721998.002	4294265.588	7186	21-Dec-13	ALEX122113C.SSF	588127.187	46341
721997.534	4294265.178	8096	21-Dec-13	ALEX122113C.SSF	588128.166	46342
721997.166	4294264.576	7514	21-Dec-13	ALEX122113C.SSF	588129.136	46343

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721996.768	4294264.124	8508	21-Dec-13	ALEX122113C.SSF	588130.313	46344
721996.604	4294263.951	7347	21-Dec-13	ALEX122113C.SSF	588131.08	46345
721996.595	4294263.802	7656	21-Dec-13	ALEX122113C.SSF	588132.1591	46346
721996.601	4294263.778	8634	21-Dec-13	ALEX122113C.SSF	588133.087	46347
721996.574	4294263.795	7498	21-Dec-13	ALEX122113C.SSF	588134.175	46348
721996.524	4294263.788	7784	21-Dec-13	ALEX122113C.SSF	588135.083	46349
721996.501	4294263.773	7226	21-Dec-13	ALEX122113C.SSF	588136.246	46350
721996.495	4294263.771	7596	21-Dec-13	ALEX122113C.SSF	588137.079	46351
721996.464	4294263.759	7719	21-Dec-13	ALEX122113C.SSF	588138.1281	46352
721996.448	4294263.75	7419	21-Dec-13	ALEX122113C.SSF	588138.9969	46353
721996.429	4294263.747	8035	21-Dec-13	ALEX122113C.SSF	588140.277	46354
721996.405	4294263.755	7798	21-Dec-13	ALEX122113C.SSF	588141.0699	46355
721996.346	4294263.751	8519	21-Dec-13	ALEX122113C.SSF	588142.308	46356
721996.173	4294263.718	9420	21-Dec-13	ALEX122113C.SSF	588143.066	46357
721995.808	4294263.296	8895	21-Dec-13	ALEX122113C.SSF	588144.264	46358
721995.474	4294262.799	8283	21-Dec-13	ALEX122113C.SSF	588145.277	46359
721995	4294262.373	8640	21-Dec-13	ALEX122113C.SSF	588146.351	46360
721994.751	4294262.078	8370	21-Dec-13	ALEX122113C.SSF	588147.095	46361
721994.436	4294261.653	8992	21-Dec-13	ALEX122113C.SSF	588148.358	46362
721994.146	4294261.464	8368	21-Dec-13	ALEX122113C.SSF	588149.087	46363
721993.771	4294261.093	8662	21-Dec-13	ALEX122113C.SSF	588150.078	46364
721993.456	4294260.713	7115	21-Dec-13	ALEX122113C.SSF	588151.113	46365
721992.982	4294260.293	6938	21-Dec-13	ALEX122113C.SSF	588152.238	46366
721992.622	4294259.911	7704	21-Dec-13	ALEX122113C.SSF	588153.0699	46367
721992.14	4294259.43	7716	21-Dec-13	ALEX122113C.SSF	588154.234	46368
721991.776	4294259.037	7749	21-Dec-13	ALEX122113C.SSF	588155.082	46369
721991.276	4294258.44	7757	21-Dec-13	ALEX122113C.SSF	588156.233	46370
721990.908	4294258.063	6949	21-Dec-13	ALEX122113C.SSF	588157.073	46371
721990.542	4294257.555	7377	21-Dec-13	ALEX122113C.SSF	588158.098	46372
721990.057	4294257.146	8264	21-Dec-13	ALEX122113C.SSF	588159.085	46373
721989.387	4294256.721	7346	21-Dec-13	ALEX122113C.SSF	588160.309	46374
721989.098	4294256.452	6966	21-Dec-13	ALEX122113C.SSF	588161.057	46375
721988.739	4294256.419	6121	21-Dec-13	ALEX122113C.SSF	588162.275	46376
721988.605	4294256.483	6150	21-Dec-13	ALEX122113C.SSF	588163.074	46377
721988.604	4294256.609	5527	21-Dec-13	ALEX122113C.SSF	588164.309	46378
721988.679	4294256.658	5576	21-Dec-13	ALEX122113C.SSF	588165.121	46379
721988.827	4294256.639	5904	21-Dec-13	ALEX122113C.SSF	588166.321	46380
721988.917	4294256.625	5589	21-Dec-13	ALEX122113C.SSF	588167.162	46381
721989.056	4294256.595	6443	21-Dec-13	ALEX122113C.SSF	588168.182	46382
721989.09	4294256.603	7071	21-Dec-13	ALEX122113C.SSF	588169.101	46383
721989.043	4294256.616	6477	21-Dec-13	ALEX122113C.SSF	588170.17	46384
721989.051	4294256.621	7199	21-Dec-13	ALEX122113C.SSF	588171.1021	46385
721989.087	4294256.581	7290	21-Dec-13	ALEX122113C.SSF	588172.205	46386
721989.161	4294256.489	7072	21-Dec-13	ALEX122113C.SSF	588173.157	46387
721989.406	4294256.036	6238	21-Dec-13	ALEX122113C.SSF	588174.2531	46388
721989.736	4294255.583	6329	21-Dec-13	ALEX122113C.SSF	588175.064	46389
721990.061	4294255.194	5763	21-Dec-13	ALEX122113C.SSF	588176.229	46390

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721990.062	4294255.157	5634	21-Dec-13	ALEX122113C.SSF	588177.145	46391
721989.999	4294255.173	5749	21-Dec-13	ALEX122113C.SSF	588178.235	46392
721989.95	4294255.226	5876	21-Dec-13	ALEX122113C.SSF	588179.101	46393
721989.797	4294255.126	5907	21-Dec-13	ALEX122113C.SSF	588180.302	46394
721989.826	4294255.087	6640	21-Dec-13	ALEX122113C.SSF	588181.177	46395
721989.829	4294255.066	6940	21-Dec-13	ALEX122113C.SSF	588182.301	46396
721989.633	4294254.947	6805	21-Dec-13	ALEX122113C.SSF	588183.0601	46397
721989.468	4294254.876	7101	21-Dec-13	ALEX122113C.SSF	588184.329	46398
721989.429	4294254.909	6755	21-Dec-13	ALEX122113C.SSF	588185.052	46399
721989.361	4294255.021	7208	21-Dec-13	ALEX122113C.SSF	588186.203	46400
721989.309	4294255.08	6392	21-Dec-13	ALEX122113C.SSF	588187.02	46401
721989.562	4294255.134	7898	21-Dec-13	ALEX122113C.SSF	588188.165	46402
721989.774	4294255.302	8214	21-Dec-13	ALEX122113C.SSF	588189.077	46403
721990.086	4294255.55	8503	21-Dec-13	ALEX122113C.SSF	588190.272	46404
721990.603	4294255.934	7976	21-Dec-13	ALEX122113C.SSF	588191.106	46405
721991.38	4294256.799	7934	21-Dec-13	ALEX122113C.SSF	588192.306	46406
721991.579	4294257.247	7233	21-Dec-13	ALEX122113C.SSF	588193.074	46407
721991.941	4294257.636	8348	21-Dec-13	ALEX122113C.SSF	588194.178	46408
721992.423	4294258.135	8327	21-Dec-13	ALEX122113C.SSF	588195.0601	46409
721993.246	4294258.884	7481	21-Dec-13	ALEX122113C.SSF	588196.3051	46410
721993.656	4294259.192	7900	21-Dec-13	ALEX122113C.SSF	588197.064	46411
721994.066	4294259.758	8725	21-Dec-13	ALEX122113C.SSF	588198.3259	46412
721994.413	4294260.121	7581	21-Dec-13	ALEX122113C.SSF	588199.115	46413
721994.798	4294260.478	7895	21-Dec-13	ALEX122113C.SSF	588200.2749	46414
721994.923	4294260.711	8003	21-Dec-13	ALEX122113C.SSF	588201.1909	46415
721995.399	4294261.128	7641	21-Dec-13	ALEX122113C.SSF	588202.291	46416
721995.841	4294261.517	8300	21-Dec-13	ALEX122113C.SSF	588203.105	46417
721996.132	4294261.87	7895	21-Dec-13	ALEX122113C.SSF	588204.292	46418
721996.501	4294262.154	7943	21-Dec-13	ALEX122113C.SSF	588205.1709	46419
721997.15	4294262.846	7746	21-Dec-13	ALEX122113C.SSF	588206.3269	46420
721997.363	4294263.153	7696	21-Dec-13	ALEX122113C.SSF	588207.0991	46421
721997.658	4294263.416	8944	21-Dec-13	ALEX122113C.SSF	588208.144	46422
721998.136	4294263.785	9496	21-Dec-13	ALEX122113C.SSF	588209.1399	46423
721998.222	4294263.977	8134	21-Dec-13	ALEX122113C.SSF	588210.2991	46424
721998.122	4294264.019	8333	21-Dec-13	ALEX122113C.SSF	588210.991	46425
721998.386	4294264.257	8293	21-Dec-13	ALEX122113C.SSF	588212.3	46426
721998.723	4294264.571	7653	21-Dec-13	ALEX122113C.SSF	588213.0811	46427
721999.34	4294265.495	7943	21-Dec-13	ALEX122113C.SSF	588214.29	46428
721999.682	4294265.955	6665	21-Dec-13	ALEX122113C.SSF	588215.0339	46429
722000.133	4294266.322	6436	21-Dec-13	ALEX122113C.SSF	588216.2661	46430
722000.437	4294266.613	6829	21-Dec-13	ALEX122113C.SSF	588217.042	46431
722001.274	4294267.303	5937	21-Dec-13	ALEX122113C.SSF	588218.2461	46432
722001.962	4294267.775	6159	21-Dec-13	ALEX122113C.SSF	588219.0171	46433
722002.678	4294268.625	5505	21-Dec-13	ALEX122113C.SSF	588220.146	46434
722003.096	4294269.22	5826	21-Dec-13	ALEX122113C.SSF	588221.0559	46435
722003.83	4294269.802	5482	21-Dec-13	ALEX122113C.SSF	588222.248	46436
722004.483	4294270.392	5401	21-Dec-13	ALEX122113C.SSF	588223.041	46437

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722005.096	4294271.202	5355	21-Dec-13	ALEX122113C.SSF	588224.291	46438
722005.593	4294271.537	5195	21-Dec-13	ALEX122113C.SSF	588225.095	46439
722006.48	4294272.187	5734	21-Dec-13	ALEX122113C.SSF	588226.3059	46440
722006.858	4294272.772	5925	21-Dec-13	ALEX122113C.SSF	588227.1689	46441
722007.272	4294273.396	5672	21-Dec-13	ALEX122113C.SSF	588228.271	46442
722007.788	4294273.907	5710	21-Dec-13	ALEX122113C.SSF	588229.042	46443
722008.731	4294275.006	5747	21-Dec-13	ALEX122113C.SSF	588230.0901	46444
722009.13	4294275.783	6050	21-Dec-13	ALEX122113C.SSF	588231.0491	46445
722009.901	4294276.34	6594	21-Dec-13	ALEX122113C.SSF	588232.2461	46446
722010.573	4294276.775	6568	21-Dec-13	ALEX122113C.SSF	588233.0801	46447
722011.111	4294277.541	6022	21-Dec-13	ALEX122113C.SSF	588234.156	46448
722011.601	4294278.137	5768	21-Dec-13	ALEX122113C.SSF	588235.0959	46449
722012.464	4294278.833	5232	21-Dec-13	ALEX122113C.SSF	588236.332	46450
722012.9	4294279.395	5575	21-Dec-13	ALEX122113C.SSF	588237.0991	46451
722013.197	4294280.075	5648	21-Dec-13	ALEX122113C.SSF	588238.1699	46452
722013.703	4294280.544	6117	21-Dec-13	ALEX122113C.SSF	588239.125	46453
722014.361	4294281.093	6209	21-Dec-13	ALEX122113C.SSF	588240.1531	46454
722014.717	4294281.652	5984	21-Dec-13	ALEX122113C.SSF	588241.1489	46455
722015.355	4294282.135	5622	21-Dec-13	ALEX122113C.SSF	588242.2351	46456
722015.945	4294282.592	6080	21-Dec-13	ALEX122113C.SSF	588243.124	46457
722016.465	4294283.296	5670	21-Dec-13	ALEX122113C.SSF	588244.2859	46458
722016.991	4294283.723	5484	21-Dec-13	ALEX122113C.SSF	588245.0959	46459
722017.696	4294284.296	6062	21-Dec-13	ALEX122113C.SSF	588246.1599	46460
722018.056	4294284.985	5423	21-Dec-13	ALEX122113C.SSF	588247.1431	46461
722018.568	4294285.585	5240	21-Dec-13	ALEX122113C.SSF	588248.1179	46462
722019.32	4294286.111	5085	21-Dec-13	ALEX122113C.SSF	588249.1101	46463
722019.851	4294286.935	5260	21-Dec-13	ALEX122113C.SSF	588250.3491	46464
722019.976	4294287.362	5066	21-Dec-13	ALEX122113C.SSF	588251.0911	46465
722020.537	4294288.078	5497	21-Dec-13	ALEX122113C.SSF	588252.3411	46466
722021.063	4294288.555	5717	21-Dec-13	ALEX122113C.SSF	588253.1621	46467
722021.578	4294288.623	5511	21-Dec-13	ALEX122113C.SSF	588254.198	46468
722021.908	4294288.234	5515	21-Dec-13	ALEX122113C.SSF	588255.0249	46469
722022.586	4294287.453	5577	21-Dec-13	ALEX122113C.SSF	588256.2471	46470
722022.898	4294287.174	5274	21-Dec-13	ALEX122113C.SSF	588257.0991	46471
722022.917	4294287.193	5119	21-Dec-13	ALEX122113C.SSF	588258.155	46472
722022.915	4294287.252	5002	21-Dec-13	ALEX122113C.SSF	588259.0769	46473
722022.837	4294287.232	4936	21-Dec-13	ALEX122113C.SSF	588260.156	46474
722022.801	4294286.959	4846	21-Dec-13	ALEX122113C.SSF	588261.032	46475
722022.57	4294286.507	4758	21-Dec-13	ALEX122113C.SSF	588262.1221	46476
722022.336	4294286.229	4724	21-Dec-13	ALEX122113C.SSF	588263.1631	46477
722022.327	4294286.14	4922	21-Dec-13	ALEX122113C.SSF	588264.28	46478
722022.429	4294286.186	5596	21-Dec-13	ALEX122113C.SSF	588265.1621	46479
722022.476	4294286.176	5608	21-Dec-13	ALEX122113C.SSF	588266.2061	46480
722022.46	4294286.15	5306	21-Dec-13	ALEX122113C.SSF	588266.988	46481
722022.509	4294286.137	5002	21-Dec-13	ALEX122113C.SSF	588268.2151	46482
722022.536	4294286.085	5259	21-Dec-13	ALEX122113C.SSF	588269.0859	46483
722022.381	4294286.046	5148	21-Dec-13	ALEX122113C.SSF	588270.3169	46484

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722022.271	4294285.971	4943	21-Dec-13	ALEX122113C.SSF	588271.0359	46485
722021.759	4294285.611	5068	21-Dec-13	ALEX122113C.SSF	588272.123	46486
722021.057	4294285.079	5100	21-Dec-13	ALEX122113C.SSF	588273.116	46487
722020.549	4294284.302	5231	21-Dec-13	ALEX122113C.SSF	588274.208	46488
722020.174	4294283.765	5095	21-Dec-13	ALEX122113C.SSF	588275.1521	46489
722019.559	4294283.423	5341	21-Dec-13	ALEX122113C.SSF	588276.124	46490
722019.011	4294282.857	5505	21-Dec-13	ALEX122113C.SSF	588277.064	46491
722018.531	4294282.049	5088	21-Dec-13	ALEX122113C.SSF	588278.2881	46492
722018.101	4294281.712	4819	21-Dec-13	ALEX122113C.SSF	588279.0371	46493
722017.336	4294281.127	5313	21-Dec-13	ALEX122113C.SSF	588280.313	46494
722016.975	4294280.708	5538	21-Dec-13	ALEX122113C.SSF	588281.0569	46495
722016.29	4294280.098	5587	21-Dec-13	ALEX122113C.SSF	588282.199	46496
722015.613	4294279.569	5617	21-Dec-13	ALEX122113C.SSF	588283.135	46497
722015.005	4294278.711	5395	21-Dec-13	ALEX122113C.SSF	588284.1731	46498
722014.511	4294278.108	5712	21-Dec-13	ALEX122113C.SSF	588285.113	46499
722013.804	4294277.601	5710	21-Dec-13	ALEX122113C.SSF	588286.1809	46500
722013.165	4294276.981	5432	21-Dec-13	ALEX122113C.SSF	588287.0859	46501
722012.482	4294276.205	5538	21-Dec-13	ALEX122113C.SSF	588288.2141	46502
722011.828	4294275.714	5762	21-Dec-13	ALEX122113C.SSF	588289.1721	46503
722011.049	4294275.116	5476	21-Dec-13	ALEX122113C.SSF	588290.2949	46504
722010.664	4294274.652	5818	21-Dec-13	ALEX122113C.SSF	588290.979	46505
722009.965	4294274.053	5605	21-Dec-13	ALEX122113C.SSF	588292.199	46506
722009.369	4294273.738	5568	21-Dec-13	ALEX122113C.SSF	588293.094	46507
722008.809	4294273.15	5651	21-Dec-13	ALEX122113C.SSF	588294.0879	46508
722008.367	4294272.468	5511	21-Dec-13	ALEX122113C.SSF	588295.0549	46509
722007.63	4294271.882	5373	21-Dec-13	ALEX122113C.SSF	588296.303	46510
722007.202	4294271.551	5639	21-Dec-13	ALEX122113C.SSF	588297.0601	46511
722006.83	4294270.861	5137	21-Dec-13	ALEX122113C.SSF	588298.0911	46512
722006.397	4294270.307	5162	21-Dec-13	ALEX122113C.SSF	588299.063	46513
722005.772	4294269.855	4988	21-Dec-13	ALEX122113C.SSF	588300.083	46514
722005.397	4294269.131	5101	21-Dec-13	ALEX122113C.SSF	588301.1389	46515
722004.976	4294268.497	5111	21-Dec-13	ALEX122113C.SSF	588302.28	46516
722004.56	4294268.204	5140	21-Dec-13	ALEX122113C.SSF	588302.959	46517
722003.622	4294267.149	5276	21-Dec-13	ALEX122113C.SSF	588304.2759	46518
722003.348	4294266.598	5968	21-Dec-13	ALEX122113C.SSF	588304.958	46519
722002.905	4294266.098	5883	21-Dec-13	ALEX122113C.SSF	588306.1389	46520
722002.428	4294265.684	6279	21-Dec-13	ALEX122113C.SSF	588307.0139	46521
722001.936	4294265.083	6464	21-Dec-13	ALEX122113C.SSF	588308.2019	46522
722001.674	4294264.779	7256	21-Dec-13	ALEX122113C.SSF	588309.0259	46523
722001.4	4294264.485	7664	21-Dec-13	ALEX122113C.SSF	588310.3081	46524
722001.216	4294264.324	8096	21-Dec-13	ALEX122113C.SSF	588311.1189	46525
722000.545	4294264.046	6974	21-Dec-13	ALEX122113C.SSF	588312.3569	46526
721999.863	4294263.948	8913	21-Dec-13	ALEX122113C.SSF	588313.1001	46527
721999.418	4294263.939	8378	21-Dec-13	ALEX122113C.SSF	588314.3081	46528
721999.793	4294263.961	7944	21-Dec-13	ALEX122113C.SSF	588314.998	46529
722000.684	4294263.862	7536	21-Dec-13	ALEX122113C.SSF	588316.0549	46530
722000.985	4294263.486	7764	21-Dec-13	ALEX122113C.SSF	588317.0491	46531

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722001.136	4294263.204	7191	21-Dec-13	ALEX122113C.SSF	588318.071	46532
722001.014	4294263.189	6807	21-Dec-13	ALEX122113C.SSF	588319.0691	46533
722000.79	4294263.116	7012	21-Dec-13	ALEX122113C.SSF	588320.1509	46534
722000.978	4294263.041	8263	21-Dec-13	ALEX122113C.SSF	588321.1621	46535
722001.214	4294262.991	7315	21-Dec-13	ALEX122113C.SSF	588322.126	46536
722001.628	4294263.034	7469	21-Dec-13	ALEX122113C.SSF	588323.113	46537
722001.966	4294263.134	7567	21-Dec-13	ALEX122113C.SSF	588324.1079	46538
722001.734	4294263.239	8341	21-Dec-13	ALEX122113C.SSF	588325.2251	46539
722001.517	4294263.255	8445	21-Dec-13	ALEX122113C.SSF	588326.071	46540
722001.471	4294263.203	7931	21-Dec-13	ALEX122113C.SSF	588327.0779	46541
722001.645	4294263.438	7383	21-Dec-13	ALEX122113C.SSF	588328.1599	46542
722001.683	4294263.551	7125	21-Dec-13	ALEX122113C.SSF	588329.147	46543
722001.646	4294263.486	7811	21-Dec-13	ALEX122113C.SSF	588330.1069	46544
722001.778	4294263.768	8103	21-Dec-13	ALEX122113C.SSF	588331.1379	46545
722001.986	4294264.066	8505	21-Dec-13	ALEX122113C.SSF	588332.0811	46546
722002.126	4294264.135	7766	21-Dec-13	ALEX122113C.SSF	588333.116	46547
722002.181	4294264.024	7971	21-Dec-13	ALEX122113C.SSF	588334.0901	46548
722002.186	4294263.91	8473	21-Dec-13	ALEX122113C.SSF	588335.084	46549
722002.185	4294263.831	7608	21-Dec-13	ALEX122113C.SSF	588336.135	46550
722002.162	4294263.773	7242	21-Dec-13	ALEX122113C.SSF	588337.071	46551
722002.174	4294263.717	7900	21-Dec-13	ALEX122113C.SSF	588338.1189	46552
722002.236	4294263.566	6745	21-Dec-13	ALEX122113C.SSF	588339.052	46553
722002.361	4294263.574	7716	21-Dec-13	ALEX122113C.SSF	588340.0779	46554
722002.545	4294263.745	7719	21-Dec-13	ALEX122113C.SSF	588341.0391	46555
722002.774	4294263.982	8019	21-Dec-13	ALEX122113C.SSF	588342.219	46556
722002.916	4294264.115	7555	21-Dec-13	ALEX122113C.SSF	588343.0029	46557
722003.168	4294264.297	6928	21-Dec-13	ALEX122113C.SSF	588344.21	46558
722003.454	4294264.47	6742	21-Dec-13	ALEX122113C.SSF	588345.1809	46559
722003.707	4294264.74	5885	21-Dec-13	ALEX122113C.SSF	588346.1201	46560
722003.844	4294264.986	6887	21-Dec-13	ALEX122113C.SSF	588347.083	46561
722003.906	4294265.193	6851	21-Dec-13	ALEX122113C.SSF	588348.1819	46562
722003.9	4294265.433	7113	21-Dec-13	ALEX122113C.SSF	588349.0291	46563
722003.88	4294265.567	7208	21-Dec-13	ALEX122113C.SSF	588350.0559	46564
722003.842	4294265.487	6844	21-Dec-13	ALEX122113C.SSF	588351.0681	46565
722003.812	4294265.365	6660	21-Dec-13	ALEX122113C.SSF	588352.074	46566
722003.864	4294265.131	7695	21-Dec-13	ALEX122113C.SSF	588353.0291	46567
722004.062	4294265.419	7113	21-Dec-13	ALEX122113C.SSF	588354.0959	46568
722004.115	4294265.681	7028	21-Dec-13	ALEX122113C.SSF	588355.052	46569
722004.007	4294265.41	7247	21-Dec-13	ALEX122113C.SSF	588355.9951	46570
722003.98	4294265.21	7151	21-Dec-13	ALEX122113C.SSF	588356.95	46571
722003.979	4294265.17	7248	21-Dec-13	ALEX122113C.SSF	588357.9839	46572
722003.975	4294265.185	7212	21-Dec-13	ALEX122113C.SSF	588358.9341	46573
722003.999	4294265.166	6363	21-Dec-13	ALEX122113C.SSF	588359.9741	46574
722004.088	4294265.294	6330	21-Dec-13	ALEX122113C.SSF	588360.9189	46575
722004.578	4294265.67	6532	21-Dec-13	ALEX122113C.SSF	588362.2461	46576
722005.064	4294265.885	5644	21-Dec-13	ALEX122113C.SSF	588362.9221	46577
722006.012	4294266.721	5590	21-Dec-13	ALEX122113C.SSF	588364.0491	46578

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722006.632	4294267.272	4959	21-Dec-13	ALEX122113C.SSF	588364.978	46579
722007.09	4294267.58	5459	21-Dec-13	ALEX122113C.SSF	588366.0149	46580
722007.196	4294267.934	5073	21-Dec-13	ALEX122113C.SSF	588367.0359	46581
722007.087	4294268.104	5313	21-Dec-13	ALEX122113C.SSF	588368.0911	46582
722007.002	4294268.095	5374	21-Dec-13	ALEX122113C.SSF	588369.061	46583
722006.917	4294268.065	5047	21-Dec-13	ALEX122113C.SSF	588370.064	46584
722006.769	4294268.027	5269	21-Dec-13	ALEX122113C.SSF	588371.054	46585
722006.658	4294267.99	5101	21-Dec-13	ALEX122113C.SSF	588372.0569	46586
722006.664	4294267.95	4954	21-Dec-13	ALEX122113C.SSF	588372.9729	46587
722006.728	4294267.956	4782	21-Dec-13	ALEX122113C.SSF	588374.1221	46588
722006.77	4294267.946	5007	21-Dec-13	ALEX122113C.SSF	588375.03	46589
722006.735	4294267.991	5194	21-Dec-13	ALEX122113C.SSF	588376.1709	46590
722006.607	4294267.979	5359	21-Dec-13	ALEX122113C.SSF	588376.991	46591
722006.623	4294268.151	5092	21-Dec-13	ALEX122113C.SSF	588378.0969	46592
722007.16	4294268.475	4971	21-Dec-13	ALEX122113C.SSF	588379.0659	46593
722007.933	4294269.119	5091	21-Dec-13	ALEX122113C.SSF	588380.1531	46594
722008.309	4294269.513	5451	21-Dec-13	ALEX122113C.SSF	588380.9309	46595
722009.088	4294269.974	5324	21-Dec-13	ALEX122113C.SSF	588382.166	46596
722009.745	4294270.612	4824	21-Dec-13	ALEX122113C.SSF	588383.0969	46597
722010.305	4294271.35	5001	21-Dec-13	ALEX122113C.SSF	588384.187	46598
722010.864	4294271.773	4950	21-Dec-13	ALEX122113C.SSF	588384.9819	46599
722011.826	4294272.299	5484	21-Dec-13	ALEX122113C.SSF	588386.022	46600
722012.421	4294273.085	5747	21-Dec-13	ALEX122113C.SSF	588386.9819	46601
722012.989	4294273.834	5640	21-Dec-13	ALEX122113C.SSF	588388.063	46602
722013.68	4294274.257	6127	21-Dec-13	ALEX122113C.SSF	588389.0129	46603
722014.58	4294274.879	5222	21-Dec-13	ALEX122113C.SSF	588390.082	46604
722015.126	4294275.633	5712	21-Dec-13	ALEX122113C.SSF	588391.0569	46605
722015.538	4294276.262	5650	21-Dec-13	ALEX122113C.SSF	588392.124	46606
722016.141	4294276.681	5218	21-Dec-13	ALEX122113C.SSF	588393.061	46607
722017.047	4294277.147	5140	21-Dec-13	ALEX122113C.SSF	588394.114	46608
722017.495	4294277.667	5156	21-Dec-13	ALEX122113C.SSF	588395.02	46609
722017.774	4294278.207	5368	21-Dec-13	ALEX122113C.SSF	588396.04	46610
722018.14	4294278.6	5569	21-Dec-13	ALEX122113C.SSF	588397.0959	46611
722018.348	4294278.767	5382	21-Dec-13	ALEX122113C.SSF	588398.0149	46612
722018.293	4294278.835	5187	21-Dec-13	ALEX122113C.SSF	588398.9399	46613
722018.312	4294278.866	5513	21-Dec-13	ALEX122113C.SSF	588400.0979	46614
722018.377	4294278.876	5688	21-Dec-13	ALEX122113C.SSF	588401.1111	46615
722018.422	4294278.845	5112	21-Dec-13	ALEX122113C.SSF	588402.165	46616
722018.447	4294278.801	5470	21-Dec-13	ALEX122113C.SSF	588402.999	46617
722018.466	4294278.791	5454	21-Dec-13	ALEX122113C.SSF	588404.0481	46618
722018.484	4294278.78	5738	21-Dec-13	ALEX122113C.SSF	588405.0259	46619
722018.524	4294278.808	5125	21-Dec-13	ALEX122113C.SSF	588406.104	46620
722018.587	4294278.955	5478	21-Dec-13	ALEX122113C.SSF	588407.0669	46621
722018.755	4294279.102	4926	21-Dec-13	ALEX122113C.SSF	588408.0911	46622
722019.009	4294279.363	4706	21-Dec-13	ALEX122113C.SSF	588408.9819	46623
722019.416	4294279.931	5234	21-Dec-13	ALEX122113C.SSF	588410.2319	46624
722019.813	4294280.471	5307	21-Dec-13	ALEX122113C.SSF	588411.1489	46625

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722020.295	4294281.239	5707	21-Dec-13	ALEX122113C.SSF	588412.1499	46626
722020.572	4294281.965	5370	21-Dec-13	ALEX122113C.SSF	588413.0879	46627
722021.076	4294282.503	5263	21-Dec-13	ALEX122113C.SSF	588414.0969	46628
722021.796	4294282.854	5015	21-Dec-13	ALEX122113C.SSF	588415.0161	46629
722022.322	4294283.533	5206	21-Dec-13	ALEX122113C.SSF	588416.0359	46630
722022.556	4294284.207	5366	21-Dec-13	ALEX122113C.SSF	588416.96	46631
722022.994	4294284.645	5306	21-Dec-13	ALEX122113C.SSF	588418.0581	46632
722023.449	4294284.819	5099	21-Dec-13	ALEX122113C.SSF	588419.0391	46633
722023.903	4294285.201	5523	21-Dec-13	ALEX122113C.SSF	588420.085	46634
722024.513	4294285.292	5792	21-Dec-13	ALEX122113C.SSF	588421.021	46635
722025.321	4294284.734	5298	21-Dec-13	ALEX122113C.SSF	588422.166	46636
722025.741	4294284.265	5312	21-Dec-13	ALEX122113C.SSF	588422.947	46637
722026.013	4294284.126	5748	21-Dec-13	ALEX122113C.SSF	588424.2371	46638
722026.025	4294284.222	5391	21-Dec-13	ALEX122113C.SSF	588425.0459	46639
722026.101	4294284.178	5486	21-Dec-13	ALEX122113C.SSF	588426.0559	46640
722026.153	4294284.127	5928	21-Dec-13	ALEX122113C.SSF	588427.03	46641
722026.138	4294284.058	5547	21-Dec-13	ALEX122113C.SSF	588428.1121	46642
722026.115	4294284.016	5602	21-Dec-13	ALEX122113C.SSF	588428.9451	46643
722026.092	4294283.995	5259	21-Dec-13	ALEX122113C.SSF	588430.092	46644
722026.114	4294284.003	5358	21-Dec-13	ALEX122113C.SSF	588431.0271	46645
722026.133	4294283.934	5256	21-Dec-13	ALEX122113C.SSF	588432.071	46646
722026.108	4294283.839	5079	21-Dec-13	ALEX122113C.SSF	588433.082	46647
722026.085	4294283.817	4979	21-Dec-13	ALEX122113C.SSF	588434.0391	46648
722026.072	4294283.791	5351	21-Dec-13	ALEX122113C.SSF	588434.9771	46649
722026.085	4294283.792	5612	21-Dec-13	ALEX122113C.SSF	588436.103	46650
722026.132	4294283.881	5684	21-Dec-13	ALEX122113C.SSF	588436.9919	46651
722026.228	4294283.833	5455	21-Dec-13	ALEX122113C.SSF	588438.052	46652
722025.991	4294283.526	5528	21-Dec-13	ALEX122113C.SSF	588438.9761	46653
722025.562	4294282.986	5757	21-Dec-13	ALEX122113C.SSF	588440.095	46654
722025.353	4294282.572	5968	21-Dec-13	ALEX122113C.SSF	588440.9419	46655
722024.659	4294282.074	5532	21-Dec-13	ALEX122113C.SSF	588442.1499	46656
722024.116	4294281.714	5467	21-Dec-13	ALEX122113C.SSF	588442.8879	46657
722023.34	4294281.133	5580	21-Dec-13	ALEX122113C.SSF	588444.1201	46658
722022.679	4294280.787	5486	21-Dec-13	ALEX122113C.SSF	588445.095	46659
722022.005	4294280.277	4961	21-Dec-13	ALEX122113C.SSF	588446.084	46660
722021.563	4294279.641	5318	21-Dec-13	ALEX122113C.SSF	588447.084	46661
722021.029	4294279.163	4784	21-Dec-13	ALEX122113C.SSF	588448.021	46662
722020.464	4294278.544	4746	21-Dec-13	ALEX122113C.SSF	588448.9861	46663
722020.02	4294277.724	4822	21-Dec-13	ALEX122113C.SSF	588450.0791	46664
722019.55	4294277.21	5487	21-Dec-13	ALEX122113C.SSF	588450.9341	46665
722018.807	4294276.426	5651	21-Dec-13	ALEX122113C.SSF	588452.0759	46666
722018.363	4294275.769	5534	21-Dec-13	ALEX122113C.SSF	588452.9661	46667
722017.651	4294275.319	5655	21-Dec-13	ALEX122113C.SSF	588454.0591	46668
722016.897	4294275.027	6091	21-Dec-13	ALEX122113C.SSF	588454.99	46669
722016.309	4294274.211	5884	21-Dec-13	ALEX122113C.SSF	588456.019	46670
722015.879	4294273.338	6302	21-Dec-13	ALEX122113C.SSF	588457.0339	46671
722015.266	4294272.791	6525	21-Dec-13	ALEX122113C.SSF	588458.033	46672

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722014.727	4294272.383	6011	21-Dec-13	ALEX122113C.SSF	588458.926	46673
722014.224	4294271.675	5764	21-Dec-13	ALEX122113C.SSF	588460.1001	46674
722013.762	4294271.194	5687	21-Dec-13	ALEX122113C.SSF	588461.02	46675
722012.902	4294270.882	5794	21-Dec-13	ALEX122113C.SSF	588462.084	46676
722012.295	4294270.427	5936	21-Dec-13	ALEX122113C.SSF	588462.9331	46677
722011.645	4294269.453	5676	21-Dec-13	ALEX122113C.SSF	588464.2119	46678
722011.164	4294268.994	5638	21-Dec-13	ALEX122113C.SSF	588464.936	46679
722010.399	4294268.532	5541	21-Dec-13	ALEX122113C.SSF	588466.0339	46680
722009.959	4294268.038	5967	21-Dec-13	ALEX122113C.SSF	588466.929	46681
722009.445	4294267.49	5899	21-Dec-13	ALEX122113C.SSF	588468.0339	46682
722008.84	4294267.128	5583	21-Dec-13	ALEX122113C.SSF	588468.9331	46683
722008.039	4294266.517	5668	21-Dec-13	ALEX122113C.SSF	588470.083	46684
722007.709	4294265.927	5528	21-Dec-13	ALEX122113C.SSF	588470.9971	46685
722007.348	4294265.372	5922	21-Dec-13	ALEX122113C.SSF	588472.0559	46686
722006.79	4294265.024	6210	21-Dec-13	ALEX122113C.SSF	588472.968	46687
722006.121	4294264.235	7342	21-Dec-13	ALEX122113C.SSF	588474.0691	46688
722005.617	4294263.497	7295	21-Dec-13	ALEX122113C.SSF	588475.145	46689
722005.085	4294263.161	7584	21-Dec-13	ALEX122113C.SSF	588476.0359	46690
722004.324	4294262.67	6786	21-Dec-13	ALEX122113C.SSF	588476.9741	46691
722003.683	4294261.984	6646	21-Dec-13	ALEX122113C.SSF	588478.0979	46692
722003.459	4294261.535	6791	21-Dec-13	ALEX122113C.SSF	588478.9719	46693
722003.866	4294261.059	7668	21-Dec-13	ALEX122113C.SSF	588480.032	46694
722004.53	4294260.715	6987	21-Dec-13	ALEX122113C.SSF	588480.9861	46695
722004.831	4294260.731	8136	21-Dec-13	ALEX122113C.SSF	588481.9871	46696
722005.022	4294261.178	7794	21-Dec-13	ALEX122113C.SSF	588482.937	46697
722005.579	4294261.823	7798	21-Dec-13	ALEX122113C.SSF	588484.084	46698
722006.066	4294262.332	7259	21-Dec-13	ALEX122113C.SSF	588484.9351	46699
722006.371	4294262.939	7785	21-Dec-13	ALEX122113C.SSF	588486.134	46700
722006.79	4294263.39	8156	21-Dec-13	ALEX122113C.SSF	588486.9709	46701
722007.558	4294264.189	6899	21-Dec-13	ALEX122113C.SSF	588488.103	46702
722007.841	4294264.599	6254	21-Dec-13	ALEX122113C.SSF	588489.093	46703
722008.312	4294264.943	6290	21-Dec-13	ALEX122113C.SSF	588490.1221	46704
722008.792	4294265.526	5643	21-Dec-13	ALEX122113C.SSF	588490.9231	46705
722009.268	4294266.207	5859	21-Dec-13	ALEX122113C.SSF	588492.0271	46706
722009.828	4294266.526	5587	21-Dec-13	ALEX122113C.SSF	588492.958	46707
722010.586	4294267.309	5362	21-Dec-13	ALEX122113C.SSF	588494.051	46708
722011.166	4294268.039	5866	21-Dec-13	ALEX122113C.SSF	588495.092	46709
722011.719	4294268.481	5250	21-Dec-13	ALEX122113C.SSF	588496.084	46710
722012.238	4294269.025	5488	21-Dec-13	ALEX122113C.SSF	588496.957	46711
722012.881	4294269.621	5577	21-Dec-13	ALEX122113C.SSF	588498.012	46712
722013.549	4294269.946	5657	21-Dec-13	ALEX122113C.SSF	588498.979	46713
722014.281	4294270.704	6144	21-Dec-13	ALEX122113C.SSF	588500.178	46714
722014.726	4294271.164	5454	21-Dec-13	ALEX122113C.SSF	588500.981	46715
722015.473	4294271.533	6457	21-Dec-13	ALEX122113C.SSF	588502.0591	46716
722016.062	4294272.109	5934	21-Dec-13	ALEX122113C.SSF	588502.9651	46717
722016.586	4294272.789	6320	21-Dec-13	ALEX122113C.SSF	588504.0911	46718
722017.065	4294273.122	6290	21-Dec-13	ALEX122113C.SSF	588504.968	46719

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722017.827	4294273.689	5832	21-Dec-13	ALEX122113C.SSF	588506.156	46720
722018.369	4294274.001	5695	21-Dec-13	ALEX122113C.SSF	588506.9951	46721
722019.02	4294274.306	5888	21-Dec-13	ALEX122113C.SSF	588508.0439	46722
722019.523	4294274.903	5082	21-Dec-13	ALEX122113C.SSF	588509.0249	46723
722020.286	4294275.619	5288	21-Dec-13	ALEX122113C.SSF	588510.228	46724
722020.822	4294276.038	5135	21-Dec-13	ALEX122113C.SSF	588511.041	46725
722021.379	4294276.721	5850	21-Dec-13	ALEX122113C.SSF	588512.1521	46726
722021.967	4294277.265	5548	21-Dec-13	ALEX122113C.SSF	588513.04	46727
722022.579	4294277.775	5071	21-Dec-13	ALEX122113C.SSF	588514.0139	46728
722023.03	4294278.233	5185	21-Dec-13	ALEX122113C.SSF	588515.0959	46729
722023.741	4294278.685	5496	21-Dec-13	ALEX122113C.SSF	588516.134	46730
722024.43	4294279.302	5371	21-Dec-13	ALEX122113C.SSF	588517.0239	46731
722024.955	4294280.038	5136	21-Dec-13	ALEX122113C.SSF	588518.1489	46732
722025.332	4294280.448	4966	21-Dec-13	ALEX122113C.SSF	588519.03	46733
722025.892	4294281.128	4848	21-Dec-13	ALEX122113C.SSF	588520.0381	46734
722026.489	4294281.629	5442	21-Dec-13	ALEX122113C.SSF	588521.094	46735
722027.009	4294281.701	5138	21-Dec-13	ALEX122113C.SSF	588522.062	46736
722027.379	4294281.681	5193	21-Dec-13	ALEX122113C.SSF	588523.0139	46737
722027.36	4294281.769	5448	21-Dec-13	ALEX122113C.SSF	588524.1951	46738
722027.209	4294281.82	5794	21-Dec-13	ALEX122113C.SSF	588524.9241	46739
722026.893	4294282.13	5682	21-Dec-13	ALEX122113C.SSF	588526.1389	46740
722026.879	4294282.449	5663	21-Dec-13	ALEX122113C.SSF	588526.8799	46741
722027.504	4294282.84	5563	21-Dec-13	ALEX122113C.SSF	588528.1279	46742
722028.353	4294283.053	5312	21-Dec-13	ALEX122113C.SSF	588528.9409	46743
722029.325	4294282.84	5373	21-Dec-13	ALEX122113C.SSF	588530.092	46744
722029.645	4294282.251	4875	21-Dec-13	ALEX122113C.SSF	588530.949	46745
722029.71	4294281.397	5547	21-Dec-13	ALEX122113C.SSF	588532.0039	46746
722029.246	4294280.815	5565	21-Dec-13	ALEX122113C.SSF	588532.9719	46747
722028.532	4294280.599	5478	21-Dec-13	ALEX122113C.SSF	588534	46748
722028.294	4294280.544	5616	21-Dec-13	ALEX122113C.SSF	588535.0869	46749
722028.411	4294280.558	5529	21-Dec-13	ALEX122113C.SSF	588536.0491	46750
722028.659	4294280.635	5225	21-Dec-13	ALEX122113C.SSF	588537.021	46751
722028.816	4294280.646	5324	21-Dec-13	ALEX122113C.SSF	588538.113	46752
722028.808	4294280.594	5169	21-Dec-13	ALEX122113C.SSF	588539.012	46753
722028.806	4294280.557	5038	21-Dec-13	ALEX122113C.SSF	588540.0791	46754
722028.849	4294280.737	5091	21-Dec-13	ALEX122113C.SSF	588541.01	46755
722028.636	4294280.789	5106	21-Dec-13	ALEX122113C.SSF	588542.0649	46756
722028.289	4294280.272	5445	21-Dec-13	ALEX122113C.SSF	588543.0371	46757
722027.809	4294279.638	5567	21-Dec-13	ALEX122113C.SSF	588543.999	46758
722027.274	4294279.167	5726	21-Dec-13	ALEX122113C.SSF	588544.968	46759
722026.928	4294278.606	5748	21-Dec-13	ALEX122113C.SSF	588546.041	46760
722026.416	4294278.107	5446	21-Dec-13	ALEX122113C.SSF	588547.033	46761
722025.695	4294277.584	5591	21-Dec-13	ALEX122113C.SSF	588548.1079	46762
722025.193	4294277.088	5627	21-Dec-13	ALEX122113C.SSF	588549.134	46763
722024.607	4294276.717	5475	21-Dec-13	ALEX122113C.SSF	588550.011	46764
722023.905	4294276.25	5097	21-Dec-13	ALEX122113C.SSF	588550.9241	46765
722023.339	4294275.478	4952	21-Dec-13	ALEX122113C.SSF	588552.095	46766

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722022.739	4294274.778	5020	21-Dec-13	ALEX122113C.SSF	588553.0779	46767
722021.782	4294274.079	5224	21-Dec-13	ALEX122113C.SSF	588554.1841	46768
722021.358	4294273.596	5533	21-Dec-13	ALEX122113C.SSF	588554.8679	46769
722020.855	4294272.834	5730	21-Dec-13	ALEX122113C.SSF	588555.98	46770
722020.419	4294272.492	5645	21-Dec-13	ALEX122113C.SSF	588556.833	46771
722020.107	4294272.237	5605	21-Dec-13	ALEX122113C.SSF	588557.9829	46772
722020.083	4294272.21	5365	21-Dec-13	ALEX122113C.SSF	588558.824	46773
722019.888	4294272.098	5710	21-Dec-13	ALEX122113C.SSF	588559.981	46774
722019.361	4294271.837	5792	21-Dec-13	ALEX122113C.SSF	588560.9561	46775
722018.846	4294271.414	5793	21-Dec-13	ALEX122113C.SSF	588561.998	46776
722018.596	4294270.996	5276	21-Dec-13	ALEX122113C.SSF	588562.834	46777
722018.268	4294270.829	5630	21-Dec-13	ALEX122113C.SSF	588564.063	46778
722018.214	4294270.882	5387	21-Dec-13	ALEX122113C.SSF	588564.9299	46779
722018.088	4294270.722	5422	21-Dec-13	ALEX122113C.SSF	588566.054	46780
722017.902	4294270.251	5645	21-Dec-13	ALEX122113C.SSF	588566.9929	46781
722017.383	4294269.526	5965	21-Dec-13	ALEX122113C.SSF	588568.1189	46782
722016.87	4294269.139	6078	21-Dec-13	ALEX122113C.SSF	588568.8979	46783
722016.185	4294268.328	5774	21-Dec-13	ALEX122113C.SSF	588570.116	46784
722015.762	4294267.79	5430	21-Dec-13	ALEX122113C.SSF	588570.9729	46785
722015.088	4294267.408	5372	21-Dec-13	ALEX122113C.SSF	588572.0681	46786
722014.703	4294266.969	5234	21-Dec-13	ALEX122113C.SSF	588572.967	46787
722014.27	4294266.501	5246	21-Dec-13	ALEX122113C.SSF	588574.002	46788
722013.64	4294266.176	5388	21-Dec-13	ALEX122113C.SSF	588574.9619	46789
722012.641	4294265.14	5188	21-Dec-13	ALEX122113C.SSF	588576.9871	46791
722011.754	4294264.779	5506	21-Dec-13	ALEX122113C.SSF	588578.1179	46792
722011.015	4294263.892	5755	21-Dec-13	ALEX122113C.SSF	588579.97	46794
722010.702	4294263.483	5945	21-Dec-13	ALEX122113C.SSF	588580.8889	46795
722010.215	4294263.096	6234	21-Dec-13	ALEX122113C.SSF	588582.01	46796
722009.988	4294262.783	7528	21-Dec-13	ALEX122113C.SSF	588582.8401	46797
722009.568	4294262.341	7042	21-Dec-13	ALEX122113C.SSF	588584.022	46798
722008.939	4294262.152	6800	21-Dec-13	ALEX122113C.SSF	588584.894	46799
722008.185	4294261.775	6590	21-Dec-13	ALEX122113C.SSF	588586.114	46800
722007.729	4294261.459	6897	21-Dec-13	ALEX122113C.SSF	588587.0161	46801
722007.201	4294261.127	6974	21-Dec-13	ALEX122113C.SSF	588588.0281	46802
722006.743	4294260.7	7233	21-Dec-13	ALEX122113C.SSF	588588.99	46803
722006.634	4294260.404	6788	21-Dec-13	ALEX122113C.SSF	588590.1211	46804
722006.868	4294260.362	7397	21-Dec-13	ALEX122113C.SSF	588590.9409	46805
722007.291	4294259.887	8149	21-Dec-13	ALEX122113C.SSF	588592.176	46806
722007.577	4294259.388	8187	21-Dec-13	ALEX122113C.SSF	588592.9441	46807
722008.185	4294258.911	9067	21-Dec-13	ALEX122113C.SSF	588593.9961	46808
722008.514	4294258.557	8176	21-Dec-13	ALEX122113C.SSF	588594.9419	46809
722008.518	4294258.595	9124	21-Dec-13	ALEX122113C.SSF	588596.072	46810
722008.166	4294258.867	8371	21-Dec-13	ALEX122113C.SSF	588596.9661	46811
722008.336	4294258.938	7522	21-Dec-13	ALEX122113C.SSF	588598.186	46812
722008.802	4294259.087	7220	21-Dec-13	ALEX122113C.SSF	588599.0691	46813
722009.119	4294259.507	7145	21-Dec-13	ALEX122113C.SSF	588600.157	46814
722009.523	4294259.883	7606	21-Dec-13	ALEX122113C.SSF	588600.98	46815

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722010.296	4294260.603	7931	21-Dec-13	ALEX122113C.SSF	588602.0459	46816
722010.603	4294261.081	7053	21-Dec-13	ALEX122113C.SSF	588603.0049	46817
722011.203	4294261.464	7343	21-Dec-13	ALEX122113C.SSF	588604.134	46818
722011.813	4294262.066	6485	21-Dec-13	ALEX122113C.SSF	588605.0049	46819
722012.266	4294262.778	5957	21-Dec-13	ALEX122113C.SSF	588606.0791	46820
722012.6	4294262.982	6479	21-Dec-13	ALEX122113C.SSF	588606.9961	46821
722012.748	4294263.08	6119	21-Dec-13	ALEX122113C.SSF	588607.999	46822
722012.983	4294263.325	5700	21-Dec-13	ALEX122113C.SSF	588608.999	46823
722013.459	4294263.899	5831	21-Dec-13	ALEX122113C.SSF	588609.9829	46824
722014.198	4294264.511	5912	21-Dec-13	ALEX122113C.SSF	588610.9519	46825
722014.964	4294265.086	5598	21-Dec-13	ALEX122113C.SSF	588612.0559	46826
722015.153	4294265.539	5391	21-Dec-13	ALEX122113C.SSF	588612.8359	46827
722015.615	4294266.325	5702	21-Dec-13	ALEX122113C.SSF	588614.0291	46828
722016.006	4294267.005	5247	21-Dec-13	ALEX122113C.SSF	588614.8359	46829
722016.319	4294267.876	5554	21-Dec-13	ALEX122113C.SSF	588616.0281	46830
722016.798	4294268.454	6049	21-Dec-13	ALEX122113C.SSF	588616.979	46831
722017.375	4294269.222	6057	21-Dec-13	ALEX122113C.SSF	588618.085	46832
722017.555	4294269.68	5605	21-Dec-13	ALEX122113C.SSF	588618.8501	46833
722017.932	4294270.165	5748	21-Dec-13	ALEX122113C.SSF	588619.949	46834
722018.175	4294270.31	5955	21-Dec-13	ALEX122113C.SSF	588620.873	46835
722018.092	4294270.231	6072	21-Dec-13	ALEX122113C.SSF	588622.084	46836
722018.205	4294270.027	5847	21-Dec-13	ALEX122113C.SSF	588622.9919	46837
722018.361	4294269.298	6499	21-Dec-13	ALEX122113C.SSF	588624.0161	46838
722018.207	4294268.582	6037	21-Dec-13	ALEX122113C.SSF	588624.8711	46839
722017.619	4294267.782	5923	21-Dec-13	ALEX122113C.SSF	588626.042	46840
722017.088	4294267.343	5844	21-Dec-13	ALEX122113C.SSF	588626.825	46841
722016.428	4294266.453	5695	21-Dec-13	ALEX122113C.SSF	588628.0791	46842
722016.049	4294265.729	5588	21-Dec-13	ALEX122113C.SSF	588628.9751	46843
722015.556	4294265.179	5296	21-Dec-13	ALEX122113C.SSF	588629.9629	46844
722015.169	4294264.67	5274	21-Dec-13	ALEX122113C.SSF	588630.968	46845
722014.868	4294264.552	5479	21-Dec-13	ALEX122113C.SSF	588632.0581	46846
722014.742	4294264.742	5474	21-Dec-13	ALEX122113C.SSF	588632.8459	46847
722015.097	4294265.039	4856	21-Dec-13	ALEX122113C.SSF	588634.0601	46848
722015.627	4294265.294	5184	21-Dec-13	ALEX122113C.SSF	588634.9709	46849
722015.931	4294265.721	5481	21-Dec-13	ALEX122113C.SSF	588636.1289	46850
722016.267	4294266.13	5063	21-Dec-13	ALEX122113C.SSF	588636.9761	46851
722016.904	4294266.967	5053	21-Dec-13	ALEX122113C.SSF	588638.0559	46852
722017.322	4294267.572	4980	21-Dec-13	ALEX122113C.SSF	588638.99	46853
722017.839	4294267.986	5238	21-Dec-13	ALEX122113C.SSF	588639.9919	46854
722018.399	4294268.636	5451	21-Dec-13	ALEX122113C.SSF	588640.981	46855
722018.779	4294269.073	5616	21-Dec-13	ALEX122113C.SSF	588642.0879	46856
722018.977	4294269.123	5746	21-Dec-13	ALEX122113C.SSF	588642.929	46857
722019.501	4294269.534	6255	21-Dec-13	ALEX122113C.SSF	588644.082	46858
722020.225	4294270.041	5525	21-Dec-13	ALEX122113C.SSF	588644.978	46859
722021.049	4294270.568	5688	21-Dec-13	ALEX122113C.SSF	588646.1011	46860
722021.395	4294271.07	5944	21-Dec-13	ALEX122113C.SSF	588646.9961	46861
722022.083	4294271.668	5994	21-Dec-13	ALEX122113C.SSF	588648.1421	46862

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722022.655	4294272.056	5794	21-Dec-13	ALEX122113C.SSF	588648.8879	46863
722023.267	4294272.923	5494	21-Dec-13	ALEX122113C.SSF	588649.969	46864
722023.738	4294273.652	5265	21-Dec-13	ALEX122113C.SSF	588650.843	46865
722024.542	4294274.329	4994	21-Dec-13	ALEX122113C.SSF	588651.9241	46866
722025.207	4294274.961	5471	21-Dec-13	ALEX122113C.SSF	588652.8391	46867
722025.766	4294275.625	5515	21-Dec-13	ALEX122113C.SSF	588653.926	46868
722026.393	4294276.088	5389	21-Dec-13	ALEX122113C.SSF	588654.8369	46869
722027.337	4294276.89	5544	21-Dec-13	ALEX122113C.SSF	588655.929	46870
722027.902	4294277.724	5188	21-Dec-13	ALEX122113C.SSF	588656.8899	46871
722028.623	4294278.48	5183	21-Dec-13	ALEX122113C.SSF	588658.0371	46872
722029.232	4294278.827	5293	21-Dec-13	ALEX122113C.SSF	588658.9331	46873
722029.645	4294279.164	5025	21-Dec-13	ALEX122113C.SSF	588659.948	46874
722029.722	4294279.364	4814	21-Dec-13	ALEX122113C.SSF	588660.916	46875
722029.651	4294279.365	5032	21-Dec-13	ALEX122113C.SSF	588661.991	46876
722029.455	4294279.717	5186	21-Dec-13	ALEX122113C.SSF	588662.9751	46877
722029.877	4294279.78	5174	21-Dec-13	ALEX122113C.SSF	588663.9741	46878
722030.84	4294279.385	5093	21-Dec-13	ALEX122113C.SSF	588664.981	46879
722031.587	4294278.929	4590	21-Dec-13	ALEX122113C.SSF	588666.103	46880
722031.791	4294278.382	5034	21-Dec-13	ALEX122113C.SSF	588666.99	46881
722031.664	4294277.429	5381	21-Dec-13	ALEX122113C.SSF	588668.0449	46882
722031.464	4294276.86	5299	21-Dec-13	ALEX122113C.SSF	588668.9919	46883
722031.438	4294276.811	5201	21-Dec-13	ALEX122113C.SSF	588670.052	46884
722031.714	4294276.859	5468	21-Dec-13	ALEX122113C.SSF	588670.8679	46885
722031.823	4294276.707	5205	21-Dec-13	ALEX122113C.SSF	588672.0759	46886
722031.366	4294276.511	4930	21-Dec-13	ALEX122113C.SSF	588672.8311	46887
722030.59	4294276.143	5151	21-Dec-13	ALEX122113C.SSF	588673.9241	46888
722030.249	4294275.703	5005	21-Dec-13	ALEX122113C.SSF	588674.821	46889
722030.146	4294275.397	4600	21-Dec-13	ALEX122113C.SSF	588676.1279	46890
722030.127	4294275.454	4747	21-Dec-13	ALEX122113C.SSF	588676.7891	46891
722030.06	4294275.579	4905	21-Dec-13	ALEX122113C.SSF	588677.9771	46892
722029.982	4294275.627	5092	21-Dec-13	ALEX122113C.SSF	588679.0459	46893
722029.809	4294275.457	4949	21-Dec-13	ALEX122113C.SSF	588679.9919	46894
722029.566	4294275.015	4899	21-Dec-13	ALEX122113C.SSF	588681.0149	46895
722029.13	4294274.73	5088	21-Dec-13	ALEX122113C.SSF	588681.969	46896
722028.524	4294274.397	5277	21-Dec-13	ALEX122113C.SSF	588682.8521	46897
722027.912	4294273.825	5631	21-Dec-13	ALEX122113C.SSF	588683.9961	46898
722026.544	4294273.059	5868	21-Dec-13	ALEX122113C.SSF	588686.063	46900
722026.181	4294272.688	5355	21-Dec-13	ALEX122113C.SSF	588686.853	46901
722025.677	4294272.236	5217	21-Dec-13	ALEX122113C.SSF	588687.916	46902
722025.13	4294271.592	5222	21-Dec-13	ALEX122113C.SSF	588688.853	46903
722024.599	4294270.853	5270	21-Dec-13	ALEX122113C.SSF	588689.981	46904
722024.113	4294270.551	5379	21-Dec-13	ALEX122113C.SSF	588690.7729	46905
722023.395	4294269.919	5516	21-Dec-13	ALEX122113C.SSF	588691.9529	46906
722023.136	4294269.534	5435	21-Dec-13	ALEX122113C.SSF	588692.75	46907
722022.677	4294269.172	5749	21-Dec-13	ALEX122113C.SSF	588693.927	46908
722022.22	4294268.698	5776	21-Dec-13	ALEX122113C.SSF	588694.752	46909
722021.657	4294267.897	5747	21-Dec-13	ALEX122113C.SSF	588695.9121	46910

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722021.171	4294267.476	5587	21-Dec-13	ALEX122113C.SSF	588696.969	46911
722020.613	4294266.955	5558	21-Dec-13	ALEX122113C.SSF	588698.0349	46912
722020.062	4294266.457	5136	21-Dec-13	ALEX122113C.SSF	588698.8269	46913
722018.809	4294265.518	5463	21-Dec-13	ALEX122113C.SSF	588700.761	46915
722018.158	4294264.959	5675	21-Dec-13	ALEX122113C.SSF	588701.936	46916
722017.496	4294264.609	5645	21-Dec-13	ALEX122113C.SSF	588702.9629	46917
722017.102	4294264.14	5695	21-Dec-13	ALEX122113C.SSF	588703.946	46918
722016.604	4294263.671	5191	21-Dec-13	ALEX122113C.SSF	588704.9109	46919
722015.968	4294263.148	4960	21-Dec-13	ALEX122113C.SSF	588705.991	46920
722015.551	4294262.474	5520	21-Dec-13	ALEX122113C.SSF	588706.989	46921
722014.952	4294261.9	6352	21-Dec-13	ALEX122113C.SSF	588708.0349	46922
722014.32	4294261.528	5847	21-Dec-13	ALEX122113C.SSF	588708.989	46923
722014.009	4294261.194	6797	21-Dec-13	ALEX122113C.SSF	588709.988	46924
722013.686	4294260.862	7579	21-Dec-13	ALEX122113C.SSF	588710.9771	46925
722013.307	4294260.364	6454	21-Dec-13	ALEX122113C.SSF	588712.019	46926
722013.275	4294259.952	7103	21-Dec-13	ALEX122113C.SSF	588712.978	46927
722012.784	4294259.555	7596	21-Dec-13	ALEX122113C.SSF	588714.062	46928
722012.202	4294259.068	8169	21-Dec-13	ALEX122113C.SSF	588714.8611	46929
722011.672	4294258.625	8012	21-Dec-13	ALEX122113C.SSF	588715.9319	46930
722011.335	4294258.465	8603	21-Dec-13	ALEX122113C.SSF	588716.823	46931
722010.911	4294258.141	8660	21-Dec-13	ALEX122113C.SSF	588717.929	46932
722010.657	4294257.837	8015	21-Dec-13	ALEX122113C.SSF	588718.9341	46933
722010.249	4294257.564	8693	21-Dec-13	ALEX122113C.SSF	588719.9661	46934
722010.088	4294257.444	8713	21-Dec-13	ALEX122113C.SSF	588720.7771	46935
722010.118	4294257.428	8718	21-Dec-13	ALEX122113C.SSF	588722.1289	46936
722010.329	4294257.262	9529	21-Dec-13	ALEX122113C.SSF	588722.988	46937
722010.509	4294256.649	8412	21-Dec-13	ALEX122113C.SSF	588723.9961	46938
722010.576	4294256.287	8163	21-Dec-13	ALEX122113C.SSF	588724.7859	46939
722010.582	4294255.903	8340	21-Dec-13	ALEX122113C.SSF	588725.9819	46940
722010.7	4294255.815	9555	21-Dec-13	ALEX122113C.SSF	588726.791	46941
722010.969	4294255.825	10068	21-Dec-13	ALEX122113C.SSF	588728.0071	46942
722010.789	4294255.761	9117	21-Dec-13	ALEX122113C.SSF	588728.834	46943
722010.731	4294255.848	9419	21-Dec-13	ALEX122113C.SSF	588729.947	46944
722010.734	4294256.087	8415	21-Dec-13	ALEX122113C.SSF	588730.876	46945
722011.163	4294256.466	8853	21-Dec-13	ALEX122113C.SSF	588732.0039	46946
722011.746	4294257.084	9443	21-Dec-13	ALEX122113C.SSF	588732.8899	46947
722012.113	4294257.639	9920	21-Dec-13	ALEX122113C.SSF	588733.998	46948
722012.26	4294257.781	8990	21-Dec-13	ALEX122113C.SSF	588734.8899	46949
722012.331	4294257.961	8367	21-Dec-13	ALEX122113C.SSF	588735.9839	46950
722012.6	4294258.204	8572	21-Dec-13	ALEX122113C.SSF	588736.7749	46951
722013.257	4294258.837	8233	21-Dec-13	ALEX122113C.SSF	588737.939	46952
722013.447	4294259.151	7608	21-Dec-13	ALEX122113C.SSF	588738.8169	46953
722013.708	4294259.343	7662	21-Dec-13	ALEX122113C.SSF	588739.95	46954
722014.032	4294259.58	8125	21-Dec-13	ALEX122113C.SSF	588740.7949	46955
722014.526	4294260.019	8121	21-Dec-13	ALEX122113C.SSF	588741.929	46956
722014.996	4294260.511	6200	21-Dec-13	ALEX122113C.SSF	588742.7849	46957
722015.725	4294261.195	6890	21-Dec-13	ALEX122113C.SSF	588743.8799	46958

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722016.465	4294261.982	6102	21-Dec-13	ALEX122113C.SSF	588744.791	46959
722017.31	4294262.799	5813	21-Dec-13	ALEX122113C.SSF	588745.9141	46960
722017.821	4294263.076	5467	21-Dec-13	ALEX122113C.SSF	588746.7939	46961
722018.194	4294263.632	5130	21-Dec-13	ALEX122113C.SSF	588747.9561	46962
722018.702	4294264.025	5091	21-Dec-13	ALEX122113C.SSF	588748.8501	46963
722019.493	4294264.281	5256	21-Dec-13	ALEX122113C.SSF	588749.9121	46964
722019.913	4294264.691	5004	21-Dec-13	ALEX122113C.SSF	588750.8159	46965
722020.513	4294265.131	5364	21-Dec-13	ALEX122113C.SSF	588751.8831	46966
722021.113	4294265.4	5905	21-Dec-13	ALEX122113C.SSF	588752.855	46967
722021.557	4294265.956	5864	21-Dec-13	ALEX122113C.SSF	588753.926	46968
722021.951	4294266.408	6028	21-Dec-13	ALEX122113C.SSF	588754.8169	46969
722022.774	4294266.872	6145	21-Dec-13	ALEX122113C.SSF	588755.9331	46970
722023.47	4294267.602	5796	21-Dec-13	ALEX122113C.SSF	588756.835	46971
722023.985	4294268.389	5533	21-Dec-13	ALEX122113C.SSF	588757.9309	46972
722024.624	4294268.69	6007	21-Dec-13	ALEX122113C.SSF	588758.8911	46973
722025.39	4294269.193	6347	21-Dec-13	ALEX122113C.SSF	588759.9451	46974
722025.644	4294269.859	5365	21-Dec-13	ALEX122113C.SSF	588760.8821	46975
722026.173	4294270.335	5275	21-Dec-13	ALEX122113C.SSF	588761.949	46976
722026.929	4294270.58	4745	21-Dec-13	ALEX122113C.SSF	588762.927	46977
722027.411	4294271.186	5121	21-Dec-13	ALEX122113C.SSF	588763.9619	46978
722027.87	4294271.636	5183	21-Dec-13	ALEX122113C.SSF	588764.821	46979
722028.54	4294272.122	5233	21-Dec-13	ALEX122113C.SSF	588765.9231	46980
722028.932	4294272.57	5523	21-Dec-13	ALEX122113C.SSF	588766.834	46981
722029.551	4294273.07	5889	21-Dec-13	ALEX122113C.SSF	588767.8831	46982
722030.202	4294273.606	5518	21-Dec-13	ALEX122113C.SSF	588768.845	46983
722030.612	4294274.185	5031	21-Dec-13	ALEX122113C.SSF	588769.9209	46984
722031.11	4294274.628	5320	21-Dec-13	ALEX122113C.SSF	588770.906	46985
722031.732	4294275.262	5452	21-Dec-13	ALEX122113C.SSF	588771.9529	46986
722031.944	4294275.899	5339	21-Dec-13	ALEX122113C.SSF	588772.9399	46987
722032.345	4294276.214	5351	21-Dec-13	ALEX122113C.SSF	588773.98	46988
722032.797	4294276.294	5417	21-Dec-13	ALEX122113C.SSF	588774.9031	46989
722032.694	4294276.233	5717	21-Dec-13	ALEX122113C.SSF	588775.8621	46990
722032.427	4294276.125	5406	21-Dec-13	ALEX122113C.SSF	588776.8611	46991
722032.378	4294276.111	5643	21-Dec-13	ALEX122113C.SSF	588777.814	46992
722032.397	4294276.043	6226	21-Dec-13	ALEX122113C.SSF	588778.751	46993
722032.454	4294276.005	5666	21-Dec-13	ALEX122113C.SSF	588779.8721	46994
722032.493	4294275.994	5167	21-Dec-13	ALEX122113C.SSF	588780.811	46995
722032.496	4294276.015	5269	21-Dec-13	ALEX122113C.SSF	588781.97	46996
722032.518	4294275.975	5438	21-Dec-13	ALEX122113C.SSF	588782.8679	46997
722032.675	4294276.003	5294	21-Dec-13	ALEX122113C.SSF	588783.907	46998
722033.164	4294276.194	5033	21-Dec-13	ALEX122113C.SSF	588784.8311	46999
722033.901	4294275.981	4916	21-Dec-13	ALEX122113C.SSF	588785.9651	47000
722034.482	4294275.388	5442	21-Dec-13	ALEX122113C.SSF	588786.9651	47001
722034.921	4294274.902	5484	21-Dec-13	ALEX122113C.SSF	588787.8669	47002
722034.82	4294274.457	5694	21-Dec-13	ALEX122113C.SSF	588788.833	47003
722034.384	4294274.218	5955	21-Dec-13	ALEX122113C.SSF	588789.9619	47004
722034.439	4294274.285	6343	21-Dec-13	ALEX122113C.SSF	588790.8931	47005

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722034.427	4294274.272	5738	21-Dec-13	ALEX122113C.SSF	588791.9961	47006
722034.103	4294273.909	5620	21-Dec-13	ALEX122113C.SSF	588792.895	47007
722033.403	4294273.34	5336	21-Dec-13	ALEX122113C.SSF	588793.9971	47008
722032.829	4294272.965	5311	21-Dec-13	ALEX122113C.SSF	588794.8921	47009
722032.582	4294272.525	5103	21-Dec-13	ALEX122113C.SSF	588795.9331	47010
722032.211	4294272.169	5705	21-Dec-13	ALEX122113C.SSF	588796.8701	47011
722031.554	4294271.714	5481	21-Dec-13	ALEX122113C.SSF	588797.824	47012
722030.99	4294271.123	5701	21-Dec-13	ALEX122113C.SSF	588798.7729	47013
722030.359	4294270.575	5629	21-Dec-13	ALEX122113C.SSF	588799.822	47014
722029.723	4294270.051	5461	21-Dec-13	ALEX122113C.SSF	588800.762	47015
722029.104	4294269.381	5727	21-Dec-13	ALEX122113C.SSF	588801.8831	47016
722028.68	4294269.037	6101	21-Dec-13	ALEX122113C.SSF	588802.7429	47017
722028.031	4294268.376	5408	21-Dec-13	ALEX122113C.SSF	588803.8931	47018
722027.514	4294267.877	5862	21-Dec-13	ALEX122113C.SSF	588804.7319	47019
722026.668	4294267.465	5974	21-Dec-13	ALEX122113C.SSF	588805.9199	47020
722026.059	4294267.003	6635	21-Dec-13	ALEX122113C.SSF	588806.8469	47021
722025.566	4294266.435	6458	21-Dec-13	ALEX122113C.SSF	588807.9451	47022
722024.963	4294266.138	5574	21-Dec-13	ALEX122113C.SSF	588808.77	47023
722024.104	4294265.471	5633	21-Dec-13	ALEX122113C.SSF	588809.876	47024
722023.602	4294264.913	5801	21-Dec-13	ALEX122113C.SSF	588810.7371	47025
722023.108	4294264.459	5813	21-Dec-13	ALEX122113C.SSF	588811.822	47026
722022.783	4294264.015	5880	21-Dec-13	ALEX122113C.SSF	588812.7471	47027
722022.284	4294263.457	5782	21-Dec-13	ALEX122113C.SSF	588813.877	47028
722021.708	4294263.158	5637	21-Dec-13	ALEX122113C.SSF	588814.783	47029
722020.957	4294262.564	5946	21-Dec-13	ALEX122113C.SSF	588815.9399	47030
722020.353	4294262.113	5797	21-Dec-13	ALEX122113C.SSF	588816.8511	47031
722019.636	4294261.757	5961	21-Dec-13	ALEX122113C.SSF	588817.9189	47032
722019.224	4294261.362	5610	21-Dec-13	ALEX122113C.SSF	588818.782	47033
722018.759	4294260.963	5563	21-Dec-13	ALEX122113C.SSF	588819.907	47034
722018.322	4294260.716	6616	21-Dec-13	ALEX122113C.SSF	588820.792	47035
722017.833	4294260.176	6724	21-Dec-13	ALEX122113C.SSF	588821.948	47036
722017.578	4294259.845	6631	21-Dec-13	ALEX122113C.SSF	588822.801	47037
722017.339	4294259.866	7057	21-Dec-13	ALEX122113C.SSF	588823.8911	47038
722017.118	4294259.957	7254	21-Dec-13	ALEX122113C.SSF	588824.865	47039
722016.747	4294259.533	7603	21-Dec-13	ALEX122113C.SSF	588825.887	47040
722016.124	4294259	7541	21-Dec-13	ALEX122113C.SSF	588826.8069	47041
722015.455	4294258.37	7765	21-Dec-13	ALEX122113C.SSF	588827.949	47042
722014.992	4294257.893	8361	21-Dec-13	ALEX122113C.SSF	588828.811	47043
722014.465	4294257.322	8300	21-Dec-13	ALEX122113C.SSF	588829.9609	47044
722014.303	4294256.973	8735	21-Dec-13	ALEX122113C.SSF	588830.7629	47045
722013.888	4294256.556	8003	21-Dec-13	ALEX122113C.SSF	588831.8689	47046
722013.541	4294256.437	8451	21-Dec-13	ALEX122113C.SSF	588832.762	47047
722013.302	4294256.348	8862	21-Dec-13	ALEX122113C.SSF	588833.865	47048
722013.139	4294256.205	8425	21-Dec-13	ALEX122113C.SSF	588834.759	47049
722012.922	4294256.008	8826	21-Dec-13	ALEX122113C.SSF	588835.9839	47050
722012.823	4294255.945	9496	21-Dec-13	ALEX122113C.SSF	588836.8101	47051
722012.772	4294255.872	8674	21-Dec-13	ALEX122113C.SSF	588837.99	47052

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722012.648	4294255.872	8657	21-Dec-13	ALEX122113C.SSF	588838.7949	47053
722012.438	4294255.904	8972	21-Dec-13	ALEX122113C.SSF	588839.967	47054
722012.407	4294255.927	8843	21-Dec-13	ALEX122113C.SSF	588840.813	47055
722012.385	4294255.758	9290	21-Dec-13	ALEX122113C.SSF	588841.8811	47056
722012.368	4294255.626	8832	21-Dec-13	ALEX122113C.SSF	588842.8169	47057
722012.308	4294255.578	8778	21-Dec-13	ALEX122113C.SSF	588843.8779	47058
722012.229	4294255.135	8614	21-Dec-13	ALEX122113C.SSF	588844.821	47059
722012.482	4294254.421	8093	21-Dec-13	ALEX122113C.SSF	588845.9951	47060
722012.892	4294254.105	7843	21-Dec-13	ALEX122113C.SSF	588846.8159	47061
722013.52	4294253.853	9341	21-Dec-13	ALEX122113C.SSF	588848.001	47062
722013.768	4294253.878	9115	21-Dec-13	ALEX122113C.SSF	588848.803	47063
722013.497	4294253.86	9598	21-Dec-13	ALEX122113C.SSF	588849.8569	47064
722013.157	4294253.841	8909	21-Dec-13	ALEX122113C.SSF	588850.783	47065
722013.087	4294253.86	8497	21-Dec-13	ALEX122113C.SSF	588851.947	47066
722013.283	4294254.078	10104	21-Dec-13	ALEX122113C.SSF	588852.7859	47067
722013.901	4294254.669	9666	21-Dec-13	ALEX122113C.SSF	588853.887	47068
722014.469	4294255.465	9046	21-Dec-13	ALEX122113C.SSF	588854.8411	47069
722014.793	4294256.132	9431	21-Dec-13	ALEX122113C.SSF	588855.843	47070
722015.017	4294256.375	9318	21-Dec-13	ALEX122113C.SSF	588856.7581	47071
722015.486	4294256.866	8749	21-Dec-13	ALEX122113C.SSF	588857.95	47072
722015.957	4294257.25	8307	21-Dec-13	ALEX122113C.SSF	588858.7749	47073
722016.657	4294257.708	7477	21-Dec-13	ALEX122113C.SSF	588859.938	47074
722017.044	4294258.16	7539	21-Dec-13	ALEX122113C.SSF	588860.78	47075
722017.44	4294258.613	6564	21-Dec-13	ALEX122113C.SSF	588861.8579	47076
722017.781	4294258.783	6291	21-Dec-13	ALEX122113C.SSF	588862.7949	47077
722018.102	4294258.998	6162	21-Dec-13	ALEX122113C.SSF	588863.873	47078
722018.617	4294259.391	5821	21-Dec-13	ALEX122113C.SSF	588864.854	47079
722019.3	4294259.99	5659	21-Dec-13	ALEX122113C.SSF	588865.8911	47080
722019.545	4294260.375	5838	21-Dec-13	ALEX122113C.SSF	588866.866	47081
722019.851	4294260.803	5459	21-Dec-13	ALEX122113C.SSF	588867.926	47082
722020.222	4294261.309	5763	21-Dec-13	ALEX122113C.SSF	588868.7849	47083
722020.78	4294261.803	5656	21-Dec-13	ALEX122113C.SSF	588869.8491	47084
722021.33	4294262.139	5394	21-Dec-13	ALEX122113C.SSF	588870.79	47085
722021.754	4294262.558	5531	21-Dec-13	ALEX122113C.SSF	588871.897	47086
722022.19	4294262.867	5631	21-Dec-13	ALEX122113C.SSF	588872.832	47087
722022.899	4294263.481	5335	21-Dec-13	ALEX122113C.SSF	588873.9141	47088
722023.356	4294263.971	5543	21-Dec-13	ALEX122113C.SSF	588874.7881	47089
722024.116	4294264.393	5930	21-Dec-13	ALEX122113C.SSF	588875.927	47090
722024.8	4294264.796	6291	21-Dec-13	ALEX122113C.SSF	588876.8501	47091
722025.2	4294265.219	6042	21-Dec-13	ALEX122113C.SSF	588877.936	47092
722025.444	4294265.393	5371	21-Dec-13	ALEX122113C.SSF	588878.853	47093
722025.957	4294265.947	5653	21-Dec-13	ALEX122113C.SSF	588879.927	47094
722026.645	4294266.514	5810	21-Dec-13	ALEX122113C.SSF	588880.782	47095
722027.586	4294267.068	5660	21-Dec-13	ALEX122113C.SSF	588881.9419	47096
722028.085	4294267.637	5734	21-Dec-13	ALEX122113C.SSF	588882.842	47097
722028.79	4294268.094	5700	21-Dec-13	ALEX122113C.SSF	588883.877	47098
722029.54	4294268.347	5478	21-Dec-13	ALEX122113C.SSF	588884.844	47099

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722030.112	4294268.842	5564	21-Dec-13	ALEX122113C.SSF	588885.8711	47100
722030.755	4294269.351	5650	21-Dec-13	ALEX122113C.SSF	588886.843	47101
722031.522	4294269.939	5630	21-Dec-13	ALEX122113C.SSF	588887.8989	47102
722031.891	4294270.513	4937	21-Dec-13	ALEX122113C.SSF	588888.761	47103
722032.55	4294271.184	4869	21-Dec-13	ALEX122113C.SSF	588889.936	47104
722033.195	4294271.53	5611	21-Dec-13	ALEX122113C.SSF	588890.814	47105
722033.748	4294272.055	5024	21-Dec-13	ALEX122113C.SSF	588891.8879	47106
722034.323	4294272.475	5061	21-Dec-13	ALEX122113C.SSF	588892.833	47107
722034.947	4294272.907	5051	21-Dec-13	ALEX122113C.SSF	588893.865	47108
722035.326	4294273.312	5774	21-Dec-13	ALEX122113C.SSF	588894.8201	47109
722035.429	4294273.324	5775	21-Dec-13	ALEX122113C.SSF	588895.8831	47110
722035.292	4294273.018	5581	21-Dec-13	ALEX122113C.SSF	588896.8359	47111
722035.311	4294272.952	5539	21-Dec-13	ALEX122113C.SSF	588897.926	47112
722035.503	4294273.31	5718	21-Dec-13	ALEX122113C.SSF	588898.7561	47113
722036.067	4294273.478	5976	21-Dec-13	ALEX122113C.SSF	588899.926	47114
722036.657	4294273.163	5481	21-Dec-13	ALEX122113C.SSF	588900.7629	47115
722037.394	4294272.806	5573	21-Dec-13	ALEX122113C.SSF	588901.8889	47116
722037.667	4294272.388	5730	21-Dec-13	ALEX122113C.SSF	588902.8159	47117
722037.766	4294271.815	6003	21-Dec-13	ALEX122113C.SSF	588903.855	47118
722037.604	4294271.402	5979	21-Dec-13	ALEX122113C.SSF	588904.7871	47119
722037.26	4294271.091	6281	21-Dec-13	ALEX122113C.SSF	588905.8701	47120
722037.134	4294270.956	6370	21-Dec-13	ALEX122113C.SSF	588906.791	47121
722037.207	4294271.006	6572	21-Dec-13	ALEX122113C.SSF	588907.822	47122
722037.505	4294271.08	6293	21-Dec-13	ALEX122113C.SSF	588908.781	47123
722037.753	4294270.991	6073	21-Dec-13	ALEX122113C.SSF	588909.8059	47124
722037.441	4294270.764	6858	21-Dec-13	ALEX122113C.SSF	588910.739	47125
722036.795	4294270.274	6574	21-Dec-13	ALEX122113C.SSF	588911.8779	47126
722036.319	4294269.817	5927	21-Dec-13	ALEX122113C.SSF	588912.719	47127
722035.54	4294269.325	5303	21-Dec-13	ALEX122113C.SSF	588913.8789	47128
722035.036	4294268.914	6028	21-Dec-13	ALEX122113C.SSF	588914.728	47129
722034.393	4294268.403	5813	21-Dec-13	ALEX122113C.SSF	588915.7991	47130
722033.789	4294268.032	5662	21-Dec-13	ALEX122113C.SSF	588916.728	47131
722033.129	4294267.414	5457	21-Dec-13	ALEX122113C.SSF	588917.8711	47132
722032.749	4294266.922	5672	21-Dec-13	ALEX122113C.SSF	588918.728	47133
722032.113	4294266.412	5666	21-Dec-13	ALEX122113C.SSF	588919.875	47134
722031.563	4294265.911	5729	21-Dec-13	ALEX122113C.SSF	588920.802	47135
722031.078	4294265.316	5503	21-Dec-13	ALEX122113C.SSF	588921.832	47136
722030.627	4294264.92	5577	21-Dec-13	ALEX122113C.SSF	588922.791	47137
722030.035	4294264.456	5822	21-Dec-13	ALEX122113C.SSF	588923.8401	47138
722029.589	4294264.085	6050	21-Dec-13	ALEX122113C.SSF	588924.7991	47139
722029.275	4294263.898	6155	21-Dec-13	ALEX122113C.SSF	588925.8101	47140
722028.958	4294263.574	5908	21-Dec-13	ALEX122113C.SSF	588926.8479	47141
722028.306	4294263.037	6046	21-Dec-13	ALEX122113C.SSF	588927.8811	47142
722027.576	4294262.45	5177	21-Dec-13	ALEX122113C.SSF	588928.8159	47143
722026.895	4294261.903	5147	21-Dec-13	ALEX122113C.SSF	588929.917	47144
722026.445	4294261.691	5602	21-Dec-13	ALEX122113C.SSF	588930.8369	47145
722025.965	4294261.231	5536	21-Dec-13	ALEX122113C.SSF	588931.9331	47146

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722025.392	4294260.851	5461	21-Dec-13	ALEX122113C.SSF	588932.7739	47147
722024.549	4294260.446	5577	21-Dec-13	ALEX122113C.SSF	588933.8511	47148
722023.969	4294259.92	5582	21-Dec-13	ALEX122113C.SSF	588934.813	47149
722023.355	4294259.49	5810	21-Dec-13	ALEX122113C.SSF	588935.844	47150
722022.71	4294259.156	6208	21-Dec-13	ALEX122113C.SSF	588936.7771	47151
722021.995	4294258.493	6052	21-Dec-13	ALEX122113C.SSF	588937.9399	47152
722021.472	4294258.057	5959	21-Dec-13	ALEX122113C.SSF	588938.771	47153
722020.804	4294257.597	6854	21-Dec-13	ALEX122113C.SSF	588939.886	47154
722020.589	4294257.332	6123	21-Dec-13	ALEX122113C.SSF	588940.689	47155
722020.105	4294257.046	5986	21-Dec-13	ALEX122113C.SSF	588941.762	47156
722019.513	4294256.678	6339	21-Dec-13	ALEX122113C.SSF	588942.696	47157
722019.088	4294256.251	6145	21-Dec-13	ALEX122113C.SSF	588943.7451	47158
722018.788	4294255.962	6576	21-Dec-13	ALEX122113C.SSF	588944.696	47159
722018.235	4294255.502	7494	21-Dec-13	ALEX122113C.SSF	588945.7749	47160
722017.574	4294255.083	7843	21-Dec-13	ALEX122113C.SSF	588946.7161	47161
722016.647	4294254.729	7481	21-Dec-13	ALEX122113C.SSF	588947.8621	47162
722016.067	4294254.36	7750	21-Dec-13	ALEX122113C.SSF	588948.752	47163
722015.319	4294253.882	8867	21-Dec-13	ALEX122113C.SSF	588949.802	47164
722014.839	4294253.672	9236	21-Dec-13	ALEX122113C.SSF	588950.708	47165
722014.895	4294253.678	8399	21-Dec-13	ALEX122113C.SSF	588951.8821	47166
722014.973	4294253.698	8519	21-Dec-13	ALEX122113C.SSF	588952.7419	47167
722014.947	4294253.36	9930	21-Dec-13	ALEX122113C.SSF	588953.822	47168
722014.956	4294253.054	9982	21-Dec-13	ALEX122113C.SSF	588954.77	47169
722015.005	4294253.112	9635	21-Dec-13	ALEX122113C.SSF	588955.9331	47170
722014.963	4294253.177	8438	21-Dec-13	ALEX122113C.SSF	588956.8391	47171
722015.097	4294252.847	9999	21-Dec-13	ALEX122113C.SSF	588957.8459	47172
722015.268	4294252.218	10180	21-Dec-13	ALEX122113C.SSF	588958.7959	47173
722015.435	4294251.731	9445	21-Dec-13	ALEX122113C.SSF	588959.844	47174
722015.633	4294251.674	10242	21-Dec-13	ALEX122113C.SSF	588960.8	47175
722015.858	4294251.807	8270	21-Dec-13	ALEX122113C.SSF	588961.8589	47176
722016.09	4294251.925	7857	21-Dec-13	ALEX122113C.SSF	588962.7971	47177
722016.177	4294251.935	7904	21-Dec-13	ALEX122113C.SSF	588963.8811	47178
722016.153	4294252.194	8186	21-Dec-13	ALEX122113C.SSF	588964.814	47179
722016.585	4294252.802	7446	21-Dec-13	ALEX122113C.SSF	588965.9299	47180
722017.235	4294253.389	7741	21-Dec-13	ALEX122113C.SSF	588966.7971	47181
722017.768	4294253.983	7845	21-Dec-13	ALEX122113C.SSF	588967.8711	47182
722018.271	4294254.287	7691	21-Dec-13	ALEX122113C.SSF	588968.7571	47183
722019.096	4294254.906	8403	21-Dec-13	ALEX122113C.SSF	588969.8191	47184
722019.648	4294255.377	7140	21-Dec-13	ALEX122113C.SSF	588970.7871	47185
722020.039	4294255.546	6525	21-Dec-13	ALEX122113C.SSF	588971.9961	47186
722020.074	4294255.626	6047	21-Dec-13	ALEX122113C.SSF	588972.741	47187
722020.537	4294255.984	5996	21-Dec-13	ALEX122113C.SSF	588973.896	47188
722021.224	4294256.448	6088	21-Dec-13	ALEX122113C.SSF	588974.7471	47189
722021.716	4294256.938	6532	21-Dec-13	ALEX122113C.SSF	588975.793	47190
722022.168	4294257.221	5554	21-Dec-13	ALEX122113C.SSF	588976.7419	47191
722022.853	4294257.893	5569	21-Dec-13	ALEX122113C.SSF	588977.814	47192
722023.339	4294258.667	5630	21-Dec-13	ALEX122113C.SSF	588978.772	47193

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722023.938	4294259.207	5454	21-Dec-13	ALEX122113C.SSF	588979.8191	47194
722024.522	4294259.61	5475	21-Dec-13	ALEX122113C.SSF	588980.78	47195
722025.277	4294259.962	5502	21-Dec-13	ALEX122113C.SSF	588981.8711	47196
722025.93	4294260.295	5780	21-Dec-13	ALEX122113C.SSF	588982.813	47197
722026.367	4294260.749	5643	21-Dec-13	ALEX122113C.SSF	588983.8601	47198
722026.935	4294261.014	5432	21-Dec-13	ALEX122113C.SSF	588984.802	47199
722027.813	4294261.562	5815	21-Dec-13	ALEX122113C.SSF	588985.8789	47200
722028.247	4294262.236	5783	21-Dec-13	ALEX122113C.SSF	588986.7949	47201
722028.863	4294263.01	5383	21-Dec-13	ALEX122113C.SSF	588987.832	47202
722029.598	4294263.555	5555	21-Dec-13	ALEX122113C.SSF	588988.7971	47203
722030.275	4294264.243	5810	21-Dec-13	ALEX122113C.SSF	588989.9919	47204
722030.91	4294264.704	5953	21-Dec-13	ALEX122113C.SSF	588990.8059	47205
722031.787	4294265.14	5937	21-Dec-13	ALEX122113C.SSF	588991.823	47206
722032.317	4294265.63	6122	21-Dec-13	ALEX122113C.SSF	588992.8091	47207
722032.951	4294266.041	6510	21-Dec-13	ALEX122113C.SSF	588993.8701	47208
722033.72	4294266.267	5467	21-Dec-13	ALEX122113C.SSF	588994.8369	47209
722034.204	4294266.669	5505	21-Dec-13	ALEX122113C.SSF	588995.7891	47210
722034.81	4294267.133	6044	21-Dec-13	ALEX122113C.SSF	588996.7629	47211
722035.634	4294267.626	5446	21-Dec-13	ALEX122113C.SSF	588997.8521	47212
722035.994	4294268.038	5928	21-Dec-13	ALEX122113C.SSF	588998.73	47213
722036.55	4294268.476	6063	21-Dec-13	ALEX122113C.SSF	588999.7881	47214
722037.238	4294268.998	5783	21-Dec-13	ALEX122113C.SSF	589000.801	47215
722037.669	4294269.581	5773	21-Dec-13	ALEX122113C.SSF	589001.8069	47216
722038.091	4294269.796	6157	21-Dec-13	ALEX122113C.SSF	589002.7949	47217
722038.654	4294269.619	6969	21-Dec-13	ALEX122113C.SSF	589003.8181	47218
722039.057	4294269.094	6228	21-Dec-13	ALEX122113C.SSF	589004.79	47219
722039.502	4294268.34	5545	21-Dec-13	ALEX122113C.SSF	589005.8149	47220
722039.903	4294267.777	6067	21-Dec-13	ALEX122113C.SSF	589006.7739	47221
722040.361	4294267.575	6226	21-Dec-13	ALEX122113C.SSF	589007.7791	47222
722040.652	4294267.519	5995	21-Dec-13	ALEX122113C.SSF	589008.7229	47223
722040.659	4294267.715	6133	21-Dec-13	ALEX122113C.SSF	589009.8391	47224
722040.596	4294268.041	6543	21-Dec-13	ALEX122113C.SSF	589010.698	47225
722040.499	4294268.218	5963	21-Dec-13	ALEX122113C.SSF	589011.79	47226
722040.426	4294268.214	5536	21-Dec-13	ALEX122113C.SSF	589012.688	47227
722040.381	4294268.195	5911	21-Dec-13	ALEX122113C.SSF	589013.834	47228
722040.393	4294268.17	5935	21-Dec-13	ALEX122113C.SSF	589014.7129	47229
722040.39	4294268.104	6410	21-Dec-13	ALEX122113C.SSF	589015.8359	47230
722040.37	4294268.072	6445	21-Dec-13	ALEX122113C.SSF	589016.769	47231
722040.331	4294268.072	6190	21-Dec-13	ALEX122113C.SSF	589017.832	47232
722040.295	4294268.052	5681	21-Dec-13	ALEX122113C.SSF	589018.803	47233
722040.284	4294268.04	5723	21-Dec-13	ALEX122113C.SSF	589019.8721	47234
722040.292	4294268.048	6099	21-Dec-13	ALEX122113C.SSF	589020.7561	47235
722040.282	4294268.068	6235	21-Dec-13	ALEX122113C.SSF	589021.855	47236
722040.269	4294268.064	6238	21-Dec-13	ALEX122113C.SSF	589022.7529	47237
722040.249	4294268.071	5999	21-Dec-13	ALEX122113C.SSF	589023.783	47238
722040.242	4294268.077	5535	21-Dec-13	ALEX122113C.SSF	589024.7749	47239
722040.243	4294268.085	5888	21-Dec-13	ALEX122113C.SSF	589025.782	47240

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722040.243	4294268.087	6222	21-Dec-13	ALEX122113C.SSF	589026.7529	47241
722040.24	4294268.091	5588	21-Dec-13	ALEX122113C.SSF	589261.6919	47242
722040.241	4294268.09	5903	21-Dec-13	ALEX122113C.SSF	589262.6211	47243
722040.238	4294268.082	5615	21-Dec-13	ALEX122113C.SSF	589263.7329	47244
722040.203	4294268.067	6086	21-Dec-13	ALEX122113C.SSF	589267.7339	47245
722040.194	4294268.076	6257	21-Dec-13	ALEX122113C.SSF	589268.584	47246
722040.195	4294268.095	5944	21-Dec-13	ALEX122113C.SSF	589269.74	47247
722040.2	4294268.102	5983	21-Dec-13	ALEX122113C.SSF	589270.5859	47248
722040.207	4294268.106	6338	21-Dec-13	ALEX122113C.SSF	589271.7329	47249
722040.21	4294268.108	6714	21-Dec-13	ALEX122113C.SSF	589272.5801	47250
722040.207	4294268.108	7018	21-Dec-13	ALEX122113C.SSF	589273.657	47251
722040.199	4294268.107	5827	21-Dec-13	ALEX122113C.SSF	589274.6421	47252
722040.194	4294268.108	5587	21-Dec-13	ALEX122113C.SSF	589275.6509	47253
722040.192	4294268.1	5603	21-Dec-13	ALEX122113C.SSF	589276.656	47254
722040.186	4294268.094	5686	21-Dec-13	ALEX122113C.SSF	589277.7251	47255
722040.177	4294268.098	5808	21-Dec-13	ALEX122113C.SSF	589278.625	47256
722040.165	4294268.096	5900	21-Dec-13	ALEX122113C.SSF	589279.718	47257
722040.157	4294268.042	5763	21-Dec-13	ALEX122113C.SSF	589280.6389	47258
722040.16	4294267.865	5462	21-Dec-13	ALEX122113C.SSF	589281.6909	47259
722040.133	4294267.857	5817	21-Dec-13	ALEX122113C.SSF	589282.6431	47260
722040.096	4294267.944	6129	21-Dec-13	ALEX122113C.SSF	589283.6431	47261
722039.97	4294268.119	5628	21-Dec-13	ALEX122113C.SSF	589284.6589	47262
722040.105	4294268.365	5558	21-Dec-13	ALEX122113C.SSF	589285.759	47263
722040.457	4294268.293	5684	21-Dec-13	ALEX122113C.SSF	589286.604	47264
722040.276	4294268.044	6122	21-Dec-13	ALEX122113C.SSF	589287.728	47265
722039.577	4294267.665	5700	21-Dec-13	ALEX122113C.SSF	589288.7029	47266
722039.076	4294267.12	5599	21-Dec-13	ALEX122113C.SSF	589289.7141	47267
722038.667	4294266.722	5774	21-Dec-13	ALEX122113C.SSF	589290.7219	47268
722038.085	4294266.235	5535	21-Dec-13	ALEX122113C.SSF	589291.729	47269
722037.511	4294265.765	5566	21-Dec-13	ALEX122113C.SSF	589292.6321	47270
722036.769	4294265.39	5816	21-Dec-13	ALEX122113C.SSF	589293.7661	47271
722036.206	4294264.884	6129	21-Dec-13	ALEX122113C.SSF	589294.688	47272
722035.656	4294264.295	6183	21-Dec-13	ALEX122113C.SSF	589295.6589	47273
722035.108	4294263.938	6105	21-Dec-13	ALEX122113C.SSF	589296.644	47274
722034.532	4294263.465	5996	21-Dec-13	ALEX122113C.SSF	589297.686	47275
722033.902	4294262.958	5923	21-Dec-13	ALEX122113C.SSF	589298.6599	47276
722033.203	4294262.623	5986	21-Dec-13	ALEX122113C.SSF	589299.6741	47277
722032.801	4294262.283	5820	21-Dec-13	ALEX122113C.SSF	589300.5901	47278
722032.387	4294261.829	5823	21-Dec-13	ALEX122113C.SSF	589301.7129	47279
722031.877	4294261.509	5120	21-Dec-13	ALEX122113C.SSF	589302.6331	47280
722031.302	4294261.077	5445	21-Dec-13	ALEX122113C.SSF	589303.699	47281
722030.775	4294260.794	5950	21-Dec-13	ALEX122113C.SSF	589304.571	47282
722029.973	4294260.52	5484	21-Dec-13	ALEX122113C.SSF	589305.7241	47283
722029.415	4294260.111	5867	21-Dec-13	ALEX122113C.SSF	589306.6179	47284
722028.783	4294259.574	5903	21-Dec-13	ALEX122113C.SSF	589307.6819	47285
722028.116	4294259.207	5270	21-Dec-13	ALEX122113C.SSF	589308.634	47286
722027.354	4294258.645	5229	21-Dec-13	ALEX122113C.SSF	589309.759	47287

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722026.887	4294258.132	5236	21-Dec-13	ALEX122113C.SSF	589310.604	47288
722026.177	4294257.551	5383	21-Dec-13	ALEX122113C.SSF	589311.6931	47289
722025.507	4294257	6058	21-Dec-13	ALEX122113C.SSF	589312.5901	47290
722024.855	4294256.353	6497	21-Dec-13	ALEX122113C.SSF	589313.645	47291
722024.364	4294255.985	6754	21-Dec-13	ALEX122113C.SSF	589314.625	47292
722023.831	4294255.541	6218	21-Dec-13	ALEX122113C.SSF	589315.6389	47293
722023.275	4294254.958	6294	21-Dec-13	ALEX122113C.SSF	589316.6389	47294
722022.683	4294254.526	6703	21-Dec-13	ALEX122113C.SSF	589317.665	47295
722022.169	4294254.147	7196	21-Dec-13	ALEX122113C.SSF	589318.637	47296
722021.616	4294253.852	7229	21-Dec-13	ALEX122113C.SSF	589319.707	47297
722021.057	4294253.719	7027	21-Dec-13	ALEX122113C.SSF	589320.5791	47298
722020.45	4294253.35	7606	21-Dec-13	ALEX122113C.SSF	589321.6599	47299
722020.009	4294252.951	6641	21-Dec-13	ALEX122113C.SSF	589322.5759	47300
722019.271	4294252.565	7510	21-Dec-13	ALEX122113C.SSF	589323.7051	47301
722018.548	4294252.214	8777	21-Dec-13	ALEX122113C.SSF	589324.666	47302
722018.069	4294251.862	7564	21-Dec-13	ALEX122113C.SSF	589325.687	47303
722017.933	4294251.689	8521	21-Dec-13	ALEX122113C.SSF	589326.656	47304
722017.893	4294251.667	8280	21-Dec-13	ALEX122113C.SSF	589327.677	47305
722018.091	4294251.708	8400	21-Dec-13	ALEX122113C.SSF	589328.593	47306
722018.653	4294251.519	8430	21-Dec-13	ALEX122113C.SSF	589329.6909	47307
722019.156	4294251.171	8077	21-Dec-13	ALEX122113C.SSF	589330.627	47308
722019.54	4294250.866	8769	21-Dec-13	ALEX122113C.SSF	589331.7109	47309
722019.6	4294250.733	8072	21-Dec-13	ALEX122113C.SSF	589332.6179	47310
722019.411	4294250.75	8018	21-Dec-13	ALEX122113C.SSF	589333.6931	47311
722019.132	4294250.891	7254	21-Dec-13	ALEX122113C.SSF	589334.6221	47312
722019.137	4294251.018	7483	21-Dec-13	ALEX122113C.SSF	589335.71	47313
722019.355	4294251.064	7571	21-Dec-13	ALEX122113C.SSF	589336.6541	47314
722019.598	4294251.355	6932	21-Dec-13	ALEX122113C.SSF	589337.6741	47315
722020.097	4294251.803	7133	21-Dec-13	ALEX122113C.SSF	589338.6101	47316
722020.81	4294252.218	7063	21-Dec-13	ALEX122113C.SSF	589339.665	47317
722021.221	4294252.408	7436	21-Dec-13	ALEX122113C.SSF	589340.5569	47318
722021.66	4294252.707	7049	21-Dec-13	ALEX122113C.SSF	589341.6599	47319
722022.135	4294253.211	7252	21-Dec-13	ALEX122113C.SSF	589342.5659	47320
722022.745	4294253.868	7273	21-Dec-13	ALEX122113C.SSF	589343.678	47321
722023.325	4294254.215	7188	21-Dec-13	ALEX122113C.SSF	589344.552	47322
722024.138	4294254.714	7257	21-Dec-13	ALEX122113C.SSF	589345.78	47323
722024.568	4294254.997	5601	21-Dec-13	ALEX122113C.SSF	589346.6799	47324
722025.031	4294255.158	5273	21-Dec-13	ALEX122113C.SSF	589347.738	47325
722025.33	4294255.374	5643	21-Dec-13	ALEX122113C.SSF	589348.6299	47326
722025.854	4294255.702	5664	21-Dec-13	ALEX122113C.SSF	589349.762	47327
722026.408	4294256.057	5706	21-Dec-13	ALEX122113C.SSF	589350.5901	47328
722027.021	4294256.652	5340	21-Dec-13	ALEX122113C.SSF	589351.678	47329
722027.594	4294257.098	5793	21-Dec-13	ALEX122113C.SSF	589352.6169	47330
722028.345	4294257.654	6026	21-Dec-13	ALEX122113C.SSF	589353.665	47331
722028.906	4294258.194	5692	21-Dec-13	ALEX122113C.SSF	589354.592	47332
722029.559	4294258.679	5752	21-Dec-13	ALEX122113C.SSF	589355.709	47333
722030.086	4294259.136	5793	21-Dec-13	ALEX122113C.SSF	589356.6101	47334

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722030.782	4294259.674	5868	21-Dec-13	ALEX122113C.SSF	589357.679	47335
722031.353	4294260.021	6226	21-Dec-13	ALEX122113C.SSF	589358.553	47336
722031.876	4294260.48	5769	21-Dec-13	ALEX122113C.SSF	589359.6709	47337
722032.375	4294260.894	5503	21-Dec-13	ALEX122113C.SSF	589360.647	47338
722033.149	4294261.264	5757	21-Dec-13	ALEX122113C.SSF	589361.7461	47339
722033.613	4294261.584	5931	21-Dec-13	ALEX122113C.SSF	589362.6111	47340
722034.23	4294261.991	5519	21-Dec-13	ALEX122113C.SSF	589363.7029	47341
722034.895	4294262.428	5684	21-Dec-13	ALEX122113C.SSF	589364.666	47342
722035.399	4294262.91	5935	21-Dec-13	ALEX122113C.SSF	589365.6699	47343
722035.877	4294263.204	5655	21-Dec-13	ALEX122113C.SSF	589366.5601	47344
722036.565	4294263.521	5454	21-Dec-13	ALEX122113C.SSF	589367.686	47345
722036.92	4294263.921	5662	21-Dec-13	ALEX122113C.SSF	589368.645	47346
722037.467	4294264.318	6192	21-Dec-13	ALEX122113C.SSF	589369.696	47347
722038.224	4294264.646	6558	21-Dec-13	ALEX122113C.SSF	589370.623	47348
722038.938	4294265.104	5879	21-Dec-13	ALEX122113C.SSF	589371.7	47349
722039.415	4294265.447	5564	21-Dec-13	ALEX122113C.SSF	589372.5879	47350
722039.913	4294265.946	5492	21-Dec-13	ALEX122113C.SSF	589373.6609	47351
722040.147	4294266.404	5399	21-Dec-13	ALEX122113C.SSF	589374.6389	47352
722040.222	4294266.601	6187	21-Dec-13	ALEX122113C.SSF	589375.7029	47353
722040.306	4294266.762	6886	21-Dec-13	ALEX122113C.SSF	589376.614	47354
722040.775	4294267.171	6701	21-Dec-13	ALEX122113C.SSF	589377.6399	47355
722041.528	4294267.676	6235	21-Dec-13	ALEX122113C.SSF	589378.5911	47356
722042.274	4294267.99	6029	21-Dec-13	ALEX122113C.SSF	589379.657	47357
722042.676	4294267.689	6311	21-Dec-13	ALEX122113C.SSF	589380.5701	47358
722043.175	4294266.864	6146	21-Dec-13	ALEX122113C.SSF	589381.6189	47359
722043.589	4294266.022	6276	21-Dec-13	ALEX122113C.SSF	589382.6069	47360
722043.451	4294265.291	5623	21-Dec-13	ALEX122113C.SSF	589383.656	47361
722043.008	4294264.898	6156	21-Dec-13	ALEX122113C.SSF	589384.5969	47362
722042.667	4294264.723	7239	21-Dec-13	ALEX122113C.SSF	589385.6631	47363
722042.672	4294264.739	6099	21-Dec-13	ALEX122113C.SSF	589386.5701	47364
722042.648	4294264.719	6445	21-Dec-13	ALEX122113C.SSF	589387.6531	47365
722042.292	4294264.406	6951	21-Dec-13	ALEX122113C.SSF	589388.594	47366
722041.638	4294263.929	6987	21-Dec-13	ALEX122113C.SSF	589389.6169	47367
722040.917	4294263.607	6187	21-Dec-13	ALEX122113C.SSF	589390.574	47368
722040.281	4294263.258	6136	21-Dec-13	ALEX122113C.SSF	589391.614	47369
722039.755	4294262.915	6214	21-Dec-13	ALEX122113C.SSF	589392.5811	47370
722039.04	4294262.415	5480	21-Dec-13	ALEX122113C.SSF	589393.616	47371
722038.413	4294261.831	6315	21-Dec-13	ALEX122113C.SSF	589394.5991	47372
722037.799	4294261.434	5658	21-Dec-13	ALEX122113C.SSF	589395.7051	47373
722037.216	4294261.018	6055	21-Dec-13	ALEX122113C.SSF	589396.563	47374
722036.358	4294260.269	5450	21-Dec-13	ALEX122113C.SSF	589397.655	47375
722035.625	4294259.762	5406	21-Dec-13	ALEX122113C.SSF	589398.6289	47376
722034.987	4294259.211	5456	21-Dec-13	ALEX122113C.SSF	589399.6321	47377
722034.386	4294258.664	5596	21-Dec-13	ALEX122113C.SSF	589400.5979	47378
722033.656	4294258.225	5698	21-Dec-13	ALEX122113C.SSF	589401.6689	47379
722033.106	4294257.791	5222	21-Dec-13	ALEX122113C.SSF	589402.5891	47380
722032.5	4294257.238	5907	21-Dec-13	ALEX122113C.SSF	589403.657	47381

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722031.905	4294256.845	6220	21-Dec-13	ALEX122113C.SSF	589404.521	47382
722031.16	4294256.261	5842	21-Dec-13	ALEX122113C.SSF	589405.6709	47383
722030.682	4294255.873	5971	21-Dec-13	ALEX122113C.SSF	589406.542	47384
722030.019	4294255.592	5614	21-Dec-13	ALEX122113C.SSF	589407.6431	47385
722029.427	4294255.168	5655	21-Dec-13	ALEX122113C.SSF	589408.585	47386
722028.79	4294254.565	5678	21-Dec-13	ALEX122113C.SSF	589409.627	47387
722028.144	4294254.236	5669	21-Dec-13	ALEX122113C.SSF	589410.573	47388
722027.38	4294253.758	6054	21-Dec-13	ALEX122113C.SSF	589411.657	47389
722026.818	4294253.23	5572	21-Dec-13	ALEX122113C.SSF	589412.6001	47390
722026.258	4294252.906	5272	21-Dec-13	ALEX122113C.SSF	589413.668	47391
722025.763	4294252.614	5793	21-Dec-13	ALEX122113C.SSF	589414.5649	47392
722025.083	4294252.039	6327	21-Dec-13	ALEX122113C.SSF	589415.6499	47393
722024.407	4294251.502	5902	21-Dec-13	ALEX122113C.SSF	589416.595	47394
722023.672	4294250.803	7718	21-Dec-13	ALEX122113C.SSF	589417.7019	47395
722023.165	4294250.337	6999	21-Dec-13	ALEX122113C.SSF	589418.582	47396
722022.482	4294250.007	7000	21-Dec-13	ALEX122113C.SSF	589419.751	47397
722022.078	4294249.831	8530	21-Dec-13	ALEX122113C.SSF	589420.584	47398
722021.889	4294249.675	8072	21-Dec-13	ALEX122113C.SSF	589421.6609	47399
722021.929	4294249.663	8078	21-Dec-13	ALEX122113C.SSF	589422.5459	47400
722022.112	4294249.695	8199	21-Dec-13	ALEX122113C.SSF	589423.688	47401
722022.119	4294249.601	8500	21-Dec-13	ALEX122113C.SSF	589424.585	47402
722022.13	4294249.402	8275	21-Dec-13	ALEX122113C.SSF	589425.717	47403
722022.474	4294249.151	8578	21-Dec-13	ALEX122113C.SSF	589426.595	47404
722022.799	4294248.755	7754	21-Dec-13	ALEX122113C.SSF	589427.657	47405
722022.884	4294248.608	8238	21-Dec-13	ALEX122113C.SSF	589428.6169	47406
722022.902	4294248.679	7279	21-Dec-13	ALEX122113C.SSF	589429.6731	47407
722022.757	4294248.696	8029	21-Dec-13	ALEX122113C.SSF	589430.594	47408
722022.508	4294248.584	8817	21-Dec-13	ALEX122113C.SSF	589431.634	47409
722022.383	4294248.647	7784	21-Dec-13	ALEX122113C.SSF	589432.5559	47410
722022.549	4294248.939	7286	21-Dec-13	ALEX122113C.SSF	589433.646	47411
722022.93	4294249.224	8151	21-Dec-13	ALEX122113C.SSF	589434.502	47412
722023.671	4294249.687	7437	21-Dec-13	ALEX122113C.SSF	589435.6021	47413
722024.41	4294250.133	7259	21-Dec-13	ALEX122113C.SSF	589436.5911	47414
722024.925	4294250.647	7005	21-Dec-13	ALEX122113C.SSF	589437.6421	47415
722025.171	4294251.05	7241	21-Dec-13	ALEX122113C.SSF	589438.5859	47416
722025.337	4294251.211	6940	21-Dec-13	ALEX122113C.SSF	589439.6609	47417
722025.39	4294251.197	7405	21-Dec-13	ALEX122113C.SSF	589440.5911	47418
722025.453	4294251.103	7071	21-Dec-13	ALEX122113C.SSF	589441.6741	47419
722025.593	4294251.199	6627	21-Dec-13	ALEX122113C.SSF	589442.6331	47420
722025.868	4294251.491	6907	21-Dec-13	ALEX122113C.SSF	589443.696	47421
722026.376	4294251.81	7426	21-Dec-13	ALEX122113C.SSF	589444.6479	47422
722027.222	4294252.262	5876	21-Dec-13	ALEX122113C.SSF	589445.6621	47423
722027.887	4294252.647	5720	21-Dec-13	ALEX122113C.SSF	589446.55	47424
722028.545	4294253.01	5677	21-Dec-13	ALEX122113C.SSF	589447.606	47425
722029.22	4294253.546	5968	21-Dec-13	ALEX122113C.SSF	589448.6169	47426
722029.728	4294254.204	5735	21-Dec-13	ALEX122113C.SSF	589449.6101	47427
722030.244	4294254.722	5565	21-Dec-13	ALEX122113C.SSF	589450.5669	47428

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722031.062	4294255.168	6131	21-Dec-13	ALEX122113C.SSF	589451.6379	47429
722031.583	4294255.444	6992	21-Dec-13	ALEX122113C.SSF	589452.5879	47430
722032.037	4294255.598	6698	21-Dec-13	ALEX122113C.SSF	589453.6299	47431
722032.706	4294255.908	5394	21-Dec-13	ALEX122113C.SSF	589454.5701	47432
722033.506	4294256.528	5696	21-Dec-13	ALEX122113C.SSF	589455.6689	47433
722034.116	4294256.865	5687	21-Dec-13	ALEX122113C.SSF	589456.54	47434
722034.945	4294257.196	5936	21-Dec-13	ALEX122113C.SSF	589457.634	47435
722035.479	4294257.631	5799	21-Dec-13	ALEX122113C.SSF	589458.573	47436
722036.131	4294258.112	5444	21-Dec-13	ALEX122113C.SSF	589459.626	47437
722036.865	4294258.481	5522	21-Dec-13	ALEX122113C.SSF	589460.573	47438
722037.43	4294258.969	5709	21-Dec-13	ALEX122113C.SSF	589461.6479	47439
722037.971	4294259.476	6233	21-Dec-13	ALEX122113C.SSF	589462.606	47440
722038.863	4294260.19	6478	21-Dec-13	ALEX122113C.SSF	589463.603	47441
722039.597	4294260.872	6659	21-Dec-13	ALEX122113C.SSF	589464.5681	47442
722040.199	4294261.334	5805	21-Dec-13	ALEX122113C.SSF	589465.71	47443
722040.745	4294261.735	6250	21-Dec-13	ALEX122113C.SSF	589466.5811	47444
722041.322	4294262.25	6362	21-Dec-13	ALEX122113C.SSF	589467.647	47445
722041.661	4294262.493	6015	21-Dec-13	ALEX122113C.SSF	589468.603	47446
722042.032	4294262.731	5664	21-Dec-13	ALEX122113C.SSF	589469.6941	47447
722042.406	4294262.936	5436	21-Dec-13	ALEX122113C.SSF	589470.479	47448
722043.07	4294263.14	5270	21-Dec-13	ALEX122113C.SSF	589471.6479	47449
722043.325	4294263.198	5777	21-Dec-13	ALEX122113C.SSF	589472.5381	47450
722043.386	4294263.486	5597	21-Dec-13	ALEX122113C.SSF	589473.5701	47451
722043.708	4294263.989	5983	21-Dec-13	ALEX122113C.SSF	589474.5259	47452
722044.48	4294264.478	6203	21-Dec-13	ALEX122113C.SSF	589475.616	47453
722045.067	4294264.66	5851	21-Dec-13	ALEX122113C.SSF	589476.573	47454
722045.408	4294264.431	5719	21-Dec-13	ALEX122113C.SSF	589477.6599	47455
722045.612	4294263.783	5752	21-Dec-13	ALEX122113C.SSF	589478.564	47456
722045.593	4294262.921	5950	21-Dec-13	ALEX122113C.SSF	589479.6221	47457
722045.252	4294262.511	5649	21-Dec-13	ALEX122113C.SSF	589480.564	47458
722044.949	4294262.387	6118	21-Dec-13	ALEX122113C.SSF	589481.6289	47459
722044.972	4294262.378	5879	21-Dec-13	ALEX122113C.SSF	589482.554	47460
722045.015	4294262.201	6277	21-Dec-13	ALEX122113C.SSF	589483.688	47461
722044.698	4294261.838	5289	21-Dec-13	ALEX122113C.SSF	589484.6379	47462
722044.089	4294261.456	5675	21-Dec-13	ALEX122113C.SSF	589485.717	47463
722043.638	4294261.129	5876	21-Dec-13	ALEX122113C.SSF	589486.604	47464
722043.073	4294260.7	5574	21-Dec-13	ALEX122113C.SSF	589487.72	47465
722042.61	4294260.335	5408	21-Dec-13	ALEX122113C.SSF	589488.5559	47466
722042.128	4294259.721	5599	21-Dec-13	ALEX122113C.SSF	589489.7029	47467
722041.774	4294259.318	5872	21-Dec-13	ALEX122113C.SSF	589490.55	47468
722041.116	4294258.715	5755	21-Dec-13	ALEX122113C.SSF	589491.708	47469
722040.51	4294258.211	6117	21-Dec-13	ALEX122113C.SSF	589492.541	47470
722039.693	4294257.661	6359	21-Dec-13	ALEX122113C.SSF	589493.626	47471
722039.205	4294257.314	6060	21-Dec-13	ALEX122113C.SSF	589494.5549	47472
722038.809	4294256.988	5737	21-Dec-13	ALEX122113C.SSF	589495.6509	47473
722038.448	4294256.674	5139	21-Dec-13	ALEX122113C.SSF	589496.5071	47474
722037.822	4294256.264	5523	21-Dec-13	ALEX122113C.SSF	589497.5891	47475

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722037.201	4294255.968	5754	21-Dec-13	ALEX122113C.SSF	589498.5291	47476
722036.598	4294255.566	6229	21-Dec-13	ALEX122113C.SSF	589499.6499	47477
722036.146	4294255.257	5291	21-Dec-13	ALEX122113C.SSF	589500.5911	47478
722035.592	4294254.826	5788	21-Dec-13	ALEX122113C.SSF	589501.6289	47479
722035.043	4294254.385	5326	21-Dec-13	ALEX122113C.SSF	589502.552	47480
722034.278	4294253.942	5756	21-Dec-13	ALEX122113C.SSF	589503.6831	47481
722033.679	4294253.498	6162	21-Dec-13	ALEX122113C.SSF	589504.6331	47482
722033.017	4294252.979	6370	21-Dec-13	ALEX122113C.SSF	589505.6499	47483
722032.329	4294252.577	6092	21-Dec-13	ALEX122113C.SSF	589506.575	47484
722031.729	4294252.219	5993	21-Dec-13	ALEX122113C.SSF	589507.623	47485
722031.238	4294251.947	6567	21-Dec-13	ALEX122113C.SSF	589508.5869	47486
722030.542	4294251.571	6262	21-Dec-13	ALEX122113C.SSF	589509.6621	47487
722030.067	4294251.213	6515	21-Dec-13	ALEX122113C.SSF	589510.512	47488
722029.467	4294250.817	5828	21-Dec-13	ALEX122113C.SSF	589511.666	47489
722028.899	4294250.47	6016	21-Dec-13	ALEX122113C.SSF	589512.533	47490
722028.218	4294249.885	6099	21-Dec-13	ALEX122113C.SSF	589513.634	47491
722027.808	4294249.615	6174	21-Dec-13	ALEX122113C.SSF	589514.5891	47492
722027.614	4294249.608	6260	21-Dec-13	ALEX122113C.SSF	589515.585	47493
722027.614	4294249.597	6935	21-Dec-13	ALEX122113C.SSF	589516.5669	47494
722027.623	4294249.647	6473	21-Dec-13	ALEX122113C.SSF	589517.6069	47495
722027.573	4294249.77	6147	21-Dec-13	ALEX122113C.SSF	589518.5691	47496
722027.531	4294249.808	5587	21-Dec-13	ALEX122113C.SSF	589519.5649	47497
722027.511	4294249.77	6150	21-Dec-13	ALEX122113C.SSF	589520.563	47498
722027.443	4294249.668	7327	21-Dec-13	ALEX122113C.SSF	589521.657	47499
722027.373	4294249.566	6272	21-Dec-13	ALEX122113C.SSF	589522.593	47500
722027.341	4294249.368	6308	21-Dec-13	ALEX122113C.SSF	589523.6851	47501
722027.288	4294249.143	7427	21-Dec-13	ALEX122113C.SSF	589524.627	47502
722027.171	4294249.045	6956	21-Dec-13	ALEX122113C.SSF	589525.616	47503
722026.92	4294248.963	6419	21-Dec-13	ALEX122113C.SSF	589526.6299	47504
722026.476	4294248.6	6202	21-Dec-13	ALEX122113C.SSF	589527.6399	47505
722026.123	4294248.25	6510	21-Dec-13	ALEX122113C.SSF	589528.5371	47506
722025.964	4294248.064	6937	21-Dec-13	ALEX122113C.SSF	589529.687	47507
722025.952	4294248.085	6864	21-Dec-13	ALEX122113C.SSF	589530.49	47508
722025.858	4294248.107	8856	21-Dec-13	ALEX122113C.SSF	589531.6399	47509
722025.698	4294247.979	7584	21-Dec-13	ALEX122113C.SSF	589532.5039	47510
722025.287	4294247.787	7866	21-Dec-13	ALEX122113C.SSF	589533.584	47511
722024.811	4294247.764	7486	21-Dec-13	ALEX122113C.SSF	589534.532	47512
722024.607	4294247.846	8891	21-Dec-13	ALEX122113C.SSF	589535.698	47513
722024.742	4294247.883	8163	21-Dec-13	ALEX122113C.SSF	589536.6011	47514
722024.865	4294247.874	7410	21-Dec-13	ALEX122113C.SSF	589537.6179	47515
722024.85	4294247.875	7702	21-Dec-13	ALEX122113C.SSF	589538.5249	47516
722024.822	4294247.798	8075	21-Dec-13	ALEX122113C.SSF	589539.6799	47517
722024.913	4294247.687	8529	21-Dec-13	ALEX122113C.SSF	589540.4519	47518
722025.068	4294247.608	8522	21-Dec-13	ALEX122113C.SSF	589541.575	47519
722025.125	4294247.616	7290	21-Dec-13	ALEX122113C.SSF	589542.532	47520
722025.255	4294247.499	8422	21-Dec-13	ALEX122113C.SSF	589543.582	47521
722025.413	4294247.256	8525	21-Dec-13	ALEX122113C.SSF	589544.4829	47522

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722025.507	4294247.04	8581	21-Dec-13	ALEX122113C.SSF	589545.562	47523
722025.435	4294246.893	7755	21-Dec-13	ALEX122113C.SSF	589546.489	47524
722025.198	4294246.576	7068	21-Dec-13	ALEX122113C.SSF	589547.646	47525
722025.032	4294246.616	7107	21-Dec-13	ALEX122113C.SSF	589548.501	47526
722024.87	4294247.068	7747	21-Dec-13	ALEX122113C.SSF	589549.5559	47527
722024.785	4294247.422	8776	21-Dec-13	ALEX122113C.SSF	589550.5569	47528
722024.726	4294247.432	8194	21-Dec-13	ALEX122113C.SSF	589551.6089	47529
722024.703	4294247.261	7088	21-Dec-13	ALEX122113C.SSF	589552.553	47530
722024.822	4294247.155	8342	21-Dec-13	ALEX122113C.SSF	589553.624	47531
722025.119	4294247.245	8385	21-Dec-13	ALEX122113C.SSF	589554.5969	47532
722025.629	4294247.54	7736	21-Dec-13	ALEX122113C.SSF	589555.6709	47533
722026.152	4294247.857	7304	21-Dec-13	ALEX122113C.SSF	589556.5049	47534
722026.916	4294248.283	7526	21-Dec-13	ALEX122113C.SSF	589557.5791	47535
722027.403	4294248.668	7611	21-Dec-13	ALEX122113C.SSF	589558.4951	47536
722027.898	4294249.132	7422	21-Dec-13	ALEX122113C.SSF	589559.6299	47537
722028.422	4294249.506	6985	21-Dec-13	ALEX122113C.SSF	589560.479	47538
722029.058	4294249.992	5676	21-Dec-13	ALEX122113C.SSF	589561.5811	47539
722029.599	4294250.299	5405	21-Dec-13	ALEX122113C.SSF	589562.553	47540
722030.324	4294250.722	5245	21-Dec-13	ALEX122113C.SSF	589563.6179	47541
722030.809	4294251.195	5500	21-Dec-13	ALEX122113C.SSF	589564.551	47542
722031.316	4294251.557	5921	21-Dec-13	ALEX122113C.SSF	589565.6589	47543
722031.837	4294251.722	6015	21-Dec-13	ALEX122113C.SSF	589566.604	47544
722032.291	4294252.084	6091	21-Dec-13	ALEX122113C.SSF	589567.6499	47545
722032.752	4294252.545	5602	21-Dec-13	ALEX122113C.SSF	589568.623	47546
722033.485	4294253.096	5844	21-Dec-13	ALEX122113C.SSF	589569.6919	47547
722034.037	4294253.45	7126	21-Dec-13	ALEX122113C.SSF	589570.5139	47548
722034.697	4294253.766	6041	21-Dec-13	ALEX122113C.SSF	589571.55	47549
722035.319	4294254.212	5948	21-Dec-13	ALEX122113C.SSF	589572.5239	47550
722036.002	4294254.771	5603	21-Dec-13	ALEX122113C.SSF	589573.554	47551
722036.648	4294255.114	5792	21-Dec-13	ALEX122113C.SSF	589574.5071	47552
722037.165	4294255.486	5305	21-Dec-13	ALEX122113C.SSF	589575.5959	47553
722037.675	4294255.904	5144	21-Dec-13	ALEX122113C.SSF	589576.5979	47554
722038.406	4294256.341	5128	21-Dec-13	ALEX122113C.SSF	589577.6379	47555
722038.846	4294256.743	5254	21-Dec-13	ALEX122113C.SSF	589578.512	47556
722039.274	4294257.218	5093	21-Dec-13	ALEX122113C.SSF	589579.6011	47557
722039.65	4294257.506	5512	21-Dec-13	ALEX122113C.SSF	589580.5061	47558
722039.952	4294257.747	5846	21-Dec-13	ALEX122113C.SSF	589581.6101	47559
722040.088	4294257.876	6026	21-Dec-13	ALEX122113C.SSF	589582.502	47560
722040.437	4294258.108	6054	21-Dec-13	ALEX122113C.SSF	589583.5779	47561
722041.087	4294258.69	6000	21-Dec-13	ALEX122113C.SSF	589584.5569	47562
722041.774	4294259.507	6030	21-Dec-13	ALEX122113C.SSF	589585.623	47563
722042.246	4294259.964	6326	21-Dec-13	ALEX122113C.SSF	589586.4819	47564
722042.927	4294260.499	6651	21-Dec-13	ALEX122113C.SSF	589587.5759	47565
722043.508	4294260.931	6913	21-Dec-13	ALEX122113C.SSF	589588.55	47566
722044.012	4294261.164	5802	21-Dec-13	ALEX122113C.SSF	589589.6489	47567
722044.275	4294261.309	5963	21-Dec-13	ALEX122113C.SSF	589590.5061	47568
722044.426	4294261.473	5499	21-Dec-13	ALEX122113C.SSF	589591.6089	47569

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722044.505	4294261.464	5763	21-Dec-13	ALEX122113C.SSF	589592.4629	47570
722044.801	4294261.618	6062	21-Dec-13	ALEX122113C.SSF	589593.562	47571
722045.307	4294261.902	6225	21-Dec-13	ALEX122113C.SSF	589594.5439	47572
722045.902	4294261.968	6039	21-Dec-13	ALEX122113C.SSF	589595.5381	47573
722046.582	4294261.85	6060	21-Dec-13	ALEX122113C.SSF	589596.5229	47574
722047.231	4294261.484	6217	21-Dec-13	ALEX122113C.SSF	589597.5249	47575
722047.496	4294260.841	6354	21-Dec-13	ALEX122113C.SSF	589598.52	47576
722047.357	4294260.276	6298	21-Dec-13	ALEX122113C.SSF	589599.5859	47577
722047.188	4294260.144	6052	21-Dec-13	ALEX122113C.SSF	589600.5029	47578
722047.182	4294260.288	6949	21-Dec-13	ALEX122113C.SSF	589601.604	47579
722047.098	4294260.361	7407	21-Dec-13	ALEX122113C.SSF	589602.5449	47580
722046.692	4294260.032	6622	21-Dec-13	ALEX122113C.SSF	589603.584	47581
722046.136	4294259.549	6755	21-Dec-13	ALEX122113C.SSF	589604.5339	47582
722045.466	4294259.138	6488	21-Dec-13	ALEX122113C.SSF	589605.605	47583
722045.021	4294258.817	6572	21-Dec-13	ALEX122113C.SSF	589606.4409	47584
722044.432	4294258.38	5914	21-Dec-13	ALEX122113C.SSF	589607.6069	47585
722043.95	4294258.121	5959	21-Dec-13	ALEX122113C.SSF	589608.4641	47586
722043.483	4294257.752	6330	21-Dec-13	ALEX122113C.SSF	589609.52	47587
722043.117	4294257.355	5482	21-Dec-13	ALEX122113C.SSF	589610.55	47588
722042.531	4294256.827	5738	21-Dec-13	ALEX122113C.SSF	589611.604	47589
722041.929	4294256.231	5958	21-Dec-13	ALEX122113C.SSF	589612.5581	47590
722041.329	4294255.756	5714	21-Dec-13	ALEX122113C.SSF	589613.6079	47591
722040.755	4294255.369	5644	21-Dec-13	ALEX122113C.SSF	589614.574	47592
722040.045	4294254.854	5364	21-Dec-13	ALEX122113C.SSF	589615.6641	47593
722039.464	4294254.553	5515	21-Dec-13	ALEX122113C.SSF	589616.5471	47594
722038.873	4294254.09	6117	21-Dec-13	ALEX122113C.SSF	589617.615	47595
722038.429	4294253.571	5579	21-Dec-13	ALEX122113C.SSF	589618.501	47596
722037.718	4294253.04	5538	21-Dec-13	ALEX122113C.SSF	589619.624	47597
722037.145	4294252.627	6040	21-Dec-13	ALEX122113C.SSF	589620.5371	47598
722036.554	4294252.095	6450	21-Dec-13	ALEX122113C.SSF	589621.563	47599
722035.992	4294251.716	6202	21-Dec-13	ALEX122113C.SSF	589622.5149	47600
722035.51	4294251.347	6106	21-Dec-13	ALEX122113C.SSF	589623.574	47601
722035.036	4294250.916	5409	21-Dec-13	ALEX122113C.SSF	589624.531	47602
722034.255	4294250.435	5300	21-Dec-13	ALEX122113C.SSF	589625.55	47603
722033.568	4294250.026	6236	21-Dec-13	ALEX122113C.SSF	589626.498	47604
722032.944	4294249.599	6029	21-Dec-13	ALEX122113C.SSF	589627.552	47605
722032.299	4294249.067	6173	21-Dec-13	ALEX122113C.SSF	589628.502	47606
722031.63	4294248.331	5885	21-Dec-13	ALEX122113C.SSF	589629.5439	47607
722031.064	4294247.768	6115	21-Dec-13	ALEX122113C.SSF	589630.5591	47608
722030.447	4294247.225	7259	21-Dec-13	ALEX122113C.SSF	589631.5991	47609
722029.883	4294246.629	7304	21-Dec-13	ALEX122113C.SSF	589632.571	47610
722029.356	4294246.16	6356	21-Dec-13	ALEX122113C.SSF	589633.6111	47611
722028.982	4294245.775	7649	21-Dec-13	ALEX122113C.SSF	589634.5911	47612
722028.582	4294245.456	9022	21-Dec-13	ALEX122113C.SSF	589635.5769	47613
722028.12	4294245.408	8855	21-Dec-13	ALEX122113C.SSF	589636.533	47614
722027.883	4294245.401	9113	21-Dec-13	ALEX122113C.SSF	589637.592	47615
722028.05	4294245.285	7888	21-Dec-13	ALEX122113C.SSF	589638.5149	47616

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722028.325	4294245.008	8242	21-Dec-13	ALEX122113C.SSF	589639.595	47617
722028.525	4294244.642	7280	21-Dec-13	ALEX122113C.SSF	589640.4709	47618
722028.847	4294244.208	8300	21-Dec-13	ALEX122113C.SSF	589641.541	47619
722029.029	4294243.908	8345	21-Dec-13	ALEX122113C.SSF	589642.4861	47620
722029.128	4294243.713	8506	21-Dec-13	ALEX122113C.SSF	589643.6179	47621
722029.091	4294243.634	9146	21-Dec-13	ALEX122113C.SSF	589644.4771	47622
722028.777	4294243.458	8496	21-Dec-13	ALEX122113C.SSF	589645.5911	47623
722028.635	4294243.409	7974	21-Dec-13	ALEX122113C.SSF	589646.511	47624
722028.904	4294243.624	7213	21-Dec-13	ALEX122113C.SSF	589647.5769	47625
722029.359	4294244.024	7083	21-Dec-13	ALEX122113C.SSF	589648.438	47626
722029.947	4294244.657	6660	21-Dec-13	ALEX122113C.SSF	589649.6069	47627
722030.373	4294245	7665	21-Dec-13	ALEX122113C.SSF	589650.4709	47628
722031.103	4294245.498	7196	21-Dec-13	ALEX122113C.SSF	589651.5569	47629
722031.658	4294246.028	7259	21-Dec-13	ALEX122113C.SSF	589652.501	47630
722032.23	4294246.501	6645	21-Dec-13	ALEX122113C.SSF	589653.5681	47631
722032.919	4294246.916	6241	21-Dec-13	ALEX122113C.SSF	589654.519	47632
722033.57	4294247.465	6300	21-Dec-13	ALEX122113C.SSF	589655.6079	47633
722034.049	4294247.776	6277	21-Dec-13	ALEX122113C.SSF	589656.4839	47634
722034.87	4294248.087	6189	21-Dec-13	ALEX122113C.SSF	589657.6179	47635
722035.372	4294248.455	5651	21-Dec-13	ALEX122113C.SSF	589658.4761	47636
722035.901	4294248.894	5661	21-Dec-13	ALEX122113C.SSF	589659.554	47637
722036.434	4294248.997	5876	21-Dec-13	ALEX122113C.SSF	589660.4961	47638
722036.679	4294248.973	6134	21-Dec-13	ALEX122113C.SSF	589661.5139	47639
722036.556	4294249.098	5735	21-Dec-13	ALEX122113C.SSF	589662.488	47640
722036.614	4294249.288	5476	21-Dec-13	ALEX122113C.SSF	589663.552	47641
722036.892	4294249.359	5382	21-Dec-13	ALEX122113C.SSF	589664.502	47642
722037.131	4294249.289	5255	21-Dec-13	ALEX122113C.SSF	589665.613	47643
722037.216	4294249.301	5776	21-Dec-13	ALEX122113C.SSF	589666.446	47644
722037.408	4294249.668	5439	21-Dec-13	ALEX122113C.SSF	589667.5139	47645
722037.894	4294250.211	5639	21-Dec-13	ALEX122113C.SSF	589668.458	47646
722038.865	4294250.935	5437	21-Dec-13	ALEX122113C.SSF	589669.582	47647
722039.558	4294251.638	5398	21-Dec-13	ALEX122113C.SSF	589670.48	47648
722040.189	4294252.409	5324	21-Dec-13	ALEX122113C.SSF	589671.6221	47649
722040.716	4294252.814	5117	21-Dec-13	ALEX122113C.SSF	589672.552	47650
722041.336	4294253.342	5788	21-Dec-13	ALEX122113C.SSF	589673.6111	47651
722041.813	4294253.816	5950	21-Dec-13	ALEX122113C.SSF	589674.488	47652
722042.49	4294254.284	6041	21-Dec-13	ALEX122113C.SSF	589675.592	47653
722043.067	4294254.682	5933	21-Dec-13	ALEX122113C.SSF	589676.4451	47654
722043.68	4294255.318	5780	21-Dec-13	ALEX122113C.SSF	589677.499	47655
722044.22	4294255.862	6333	21-Dec-13	ALEX122113C.SSF	589678.437	47656
722045.034	4294256.428	6233	21-Dec-13	ALEX122113C.SSF	589679.478	47657
722045.778	4294256.99	5442	21-Dec-13	ALEX122113C.SSF	589680.5039	47658
722046.358	4294257.46	5603	21-Dec-13	ALEX122113C.SSF	589681.551	47659
722046.964	4294257.868	6317	21-Dec-13	ALEX122113C.SSF	589682.467	47660
722047.56	4294258.417	6499	21-Dec-13	ALEX122113C.SSF	589683.5239	47661
722048.005	4294258.86	7504	21-Dec-13	ALEX122113C.SSF	589684.448	47662
722048.769	4294259.333	7216	21-Dec-13	ALEX122113C.SSF	589685.562	47663

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722049.379	4294259.737	6514	21-Dec-13	ALEX122113C.SSF	589686.4861	47664
722049.905	4294259.805	7148	21-Dec-13	ALEX122113C.SSF	589687.52	47665
722050.369	4294259.38	6287	21-Dec-13	ALEX122113C.SSF	589688.4729	47666
722050.934	4294258.866	6077	21-Dec-13	ALEX122113C.SSF	589689.532	47667
722051.283	4294258.434	5429	21-Dec-13	ALEX122113C.SSF	589690.511	47668
722051.287	4294257.788	5926	21-Dec-13	ALEX122113C.SSF	589691.5681	47669
722051.104	4294257.263	5981	21-Dec-13	ALEX122113C.SSF	589692.5081	47670
722050.679	4294256.926	6262	21-Dec-13	ALEX122113C.SSF	589693.623	47671
722050.196	4294256.598	5708	21-Dec-13	ALEX122113C.SSF	589694.5259	47672
722049.523	4294256.114	6820	21-Dec-13	ALEX122113C.SSF	589695.592	47673
722048.924	4294255.805	6595	21-Dec-13	ALEX122113C.SSF	589696.5061	47674
722048.392	4294255.492	6838	21-Dec-13	ALEX122113C.SSF	589697.5701	47675
722047.964	4294255.229	6104	21-Dec-13	ALEX122113C.SSF	589698.4839	47676
722047.309	4294254.799	5846	21-Dec-13	ALEX122113C.SSF	589699.5901	47677
722046.852	4294254.333	5883	21-Dec-13	ALEX122113C.SSF	589700.4719	47678
722046.343	4294253.871	6099	21-Dec-13	ALEX122113C.SSF	589701.5791	47679
722045.908	4294253.519	5902	21-Dec-13	ALEX122113C.SSF	589702.48	47680
722045.467	4294252.984	5960	21-Dec-13	ALEX122113C.SSF	589703.6431	47681
722045.055	4294252.688	6075	21-Dec-13	ALEX122113C.SSF	589704.5549	47682
722044.481	4294252.329	6048	21-Dec-13	ALEX122113C.SSF	589705.5459	47683
722043.951	4294251.951	5712	21-Dec-13	ALEX122113C.SSF	589706.5061	47684
722043.371	4294251.682	5755	21-Dec-13	ALEX122113C.SSF	589707.583	47685
722042.872	4294251.398	5555	21-Dec-13	ALEX122113C.SSF	589708.448	47686
722042.086	4294250.834	5479	21-Dec-13	ALEX122113C.SSF	589709.635	47687
722041.473	4294250.464	5550	21-Dec-13	ALEX122113C.SSF	589710.4529	47688
722040.718	4294249.975	5581	21-Dec-13	ALEX122113C.SSF	589711.551	47689
722040.07	4294249.676	6012	21-Dec-13	ALEX122113C.SSF	589712.4851	47690
722039.36	4294249.457	5519	21-Dec-13	ALEX122113C.SSF	589713.522	47691
722038.969	4294249.143	5362	21-Dec-13	ALEX122113C.SSF	589714.4409	47692
722038.512	4294248.705	5903	21-Dec-13	ALEX122113C.SSF	589715.562	47693
722037.937	4294248.442	5465	21-Dec-13	ALEX122113C.SSF	589716.428	47694
722037.161	4294247.903	5354	21-Dec-13	ALEX122113C.SSF	589717.5891	47695
722036.611	4294247.429	5937	21-Dec-13	ALEX122113C.SSF	589718.4839	47696
722035.839	4294247.084	5604	21-Dec-13	ALEX122113C.SSF	589719.553	47697
722035.119	4294246.69	6205	21-Dec-13	ALEX122113C.SSF	589720.479	47698
722034.399	4294245.999	7641	21-Dec-13	ALEX122113C.SSF	589721.541	47699
722033.865	4294245.551	7400	21-Dec-13	ALEX122113C.SSF	589722.405	47700
722033.17	4294245.041	7190	21-Dec-13	ALEX122113C.SSF	589723.5481	47701
722032.653	4294244.565	7317	21-Dec-13	ALEX122113C.SSF	589724.4141	47702
722031.981	4294244.144	7679	21-Dec-13	ALEX122113C.SSF	589725.467	47703
722031.438	4294243.902	7230	21-Dec-13	ALEX122113C.SSF	589726.457	47704
722031.099	4294243.556	8077	21-Dec-13	ALEX122113C.SSF	589727.5139	47705
722031.057	4294243.145	8559	21-Dec-13	ALEX122113C.SSF	589728.4919	47706
722031.376	4294242.751	7839	21-Dec-13	ALEX122113C.SSF	589729.4619	47707
722031.889	4294242.398	8050	21-Dec-13	ALEX122113C.SSF	589730.5181	47708
722032.311	4294242.312	7442	21-Dec-13	ALEX122113C.SSF	589731.52	47709
722032.682	4294242.497	7830	21-Dec-13	ALEX122113C.SSF	589732.498	47710

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722033.186	4294242.716	7147	21-Dec-13	ALEX122113C.SSF	589733.5291	47711
722033.894	4294243.055	7697	21-Dec-13	ALEX122113C.SSF	589734.5161	47712
722034.578	4294243.539	6814	21-Dec-13	ALEX122113C.SSF	589735.5161	47713
722035.122	4294243.897	7013	21-Dec-13	ALEX122113C.SSF	589736.4541	47714
722035.814	4294244.321	5473	21-Dec-13	ALEX122113C.SSF	589737.491	47715
722036.429	4294244.854	5456	21-Dec-13	ALEX122113C.SSF	589738.4651	47716
722037.021	4294245.298	6421	21-Dec-13	ALEX122113C.SSF	589739.4741	47717
722037.731	4294245.617	5753	21-Dec-13	ALEX122113C.SSF	589740.4399	47718
722038.48	4294246.101	5982	21-Dec-13	ALEX122113C.SSF	589741.5349	47719
722039.046	4294246.555	5525	21-Dec-13	ALEX122113C.SSF	589742.428	47720
722039.905	4294247.026	5582	21-Dec-13	ALEX122113C.SSF	589743.4971	47721
722040.649	4294247.486	5787	21-Dec-13	ALEX122113C.SSF	589744.47	47722
722041.325	4294248	6880	21-Dec-13	ALEX122113C.SSF	589745.5	47723
722041.944	4294248.365	6670	21-Dec-13	ALEX122113C.SSF	589746.4629	47724
722042.346	4294248.621	6737	21-Dec-13	ALEX122113C.SSF	589747.5029	47725
722042.636	4294248.812	5944	21-Dec-13	ALEX122113C.SSF	589748.5139	47726
722043.303	4294249.256	6291	21-Dec-13	ALEX122113C.SSF	589749.5759	47727
722043.923	4294249.796	4939	21-Dec-13	ALEX122113C.SSF	589750.488	47728
722044.579	4294250.335	5215	21-Dec-13	ALEX122113C.SSF	589751.5449	47729
722045.374	4294250.823	5093	21-Dec-13	ALEX122113C.SSF	589752.5049	47730
722046.253	4294251.454	5895	21-Dec-13	ALEX122113C.SSF	589753.6079	47731
722046.88	4294251.863	5981	21-Dec-13	ALEX122113C.SSF	589754.4939	47732
722047.653	4294252.279	5959	21-Dec-13	ALEX122113C.SSF	589755.4829	47733
722048.27	4294252.765	5354	21-Dec-13	ALEX122113C.SSF	589756.46	47734
722048.869	4294253.311	5719	21-Dec-13	ALEX122113C.SSF	589757.5291	47735
722049.639	4294253.819	5857	21-Dec-13	ALEX122113C.SSF	589758.4719	47736
722050.321	4294254.397	6069	21-Dec-13	ALEX122113C.SSF	589759.46	47737
722050.867	4294254.995	6047	21-Dec-13	ALEX122113C.SSF	589760.5149	47738
722051.6	4294255.66	5824	21-Dec-13	ALEX122113C.SSF	589761.5691	47739
722052.14	4294256.062	5979	21-Dec-13	ALEX122113C.SSF	589762.4641	47740
722052.452	4294256.02	6205	21-Dec-13	ALEX122113C.SSF	589763.573	47741
722052.489	4294255.769	5601	21-Dec-13	ALEX122113C.SSF	589764.5139	47742
722052.476	4294255.612	6128	21-Dec-13	ALEX122113C.SSF	589765.519	47743
722052.45	4294255.523	5793	21-Dec-13	ALEX122113C.SSF	589766.447	47744
722052.379	4294255.347	5883	21-Dec-13	ALEX122113C.SSF	589767.551	47745
722052.313	4294255.183	6032	21-Dec-13	ALEX122113C.SSF	589768.541	47746
722052.235	4294255.044	6213	21-Dec-13	ALEX122113C.SSF	589769.5181	47747
722052.251	4294255.128	6259	21-Dec-13	ALEX122113C.SSF	589770.49	47748
722052.519	4294255.297	6065	21-Dec-13	ALEX122113C.SSF	589771.563	47749
722052.948	4294255.187	7052	21-Dec-13	ALEX122113C.SSF	589772.498	47750
722053.517	4294254.955	7556	21-Dec-13	ALEX122113C.SSF	589773.531	47751
722053.795	4294254.634	8069	21-Dec-13	ALEX122113C.SSF	589774.45	47752
722053.777	4294253.958	6727	21-Dec-13	ALEX122113C.SSF	589775.542	47753
722053.529	4294253.442	6271	21-Dec-13	ALEX122113C.SSF	589776.387	47754
722052.984	4294253.1	5977	21-Dec-13	ALEX122113C.SSF	589777.4839	47755
722052.652	4294252.971	6010	21-Dec-13	ALEX122113C.SSF	589778.426	47756
722052.392	4294252.817	5983	21-Dec-13	ALEX122113C.SSF	589779.4861	47757

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722052.166	4294252.575	6443	21-Dec-13	ALEX122113C.SSF	589780.4319	47758
722051.701	4294252.161	6471	21-Dec-13	ALEX122113C.SSF	589781.552	47759
722051.116	4294251.848	6957	21-Dec-13	ALEX122113C.SSF	589782.499	47760
722050.462	4294251.382	6359	21-Dec-13	ALEX122113C.SSF	589783.5349	47761
722049.873	4294250.941	6690	21-Dec-13	ALEX122113C.SSF	589784.4441	47762
722049.142	4294250.606	5823	21-Dec-13	ALEX122113C.SSF	589785.5249	47763
722048.66	4294250.267	5705	21-Dec-13	ALEX122113C.SSF	589786.481	47764
722048.185	4294249.85	5917	21-Dec-13	ALEX122113C.SSF	589787.5759	47765
722047.67	4294249.634	5428	21-Dec-13	ALEX122113C.SSF	589788.4929	47766
722047.085	4294249.281	5408	21-Dec-13	ALEX122113C.SSF	589789.53	47767
722046.55	4294248.873	5922	21-Dec-13	ALEX122113C.SSF	589790.4951	47768
722045.845	4294248.561	5911	21-Dec-13	ALEX122113C.SSF	589791.5979	47769
722045.265	4294248.214	5261	21-Dec-13	ALEX122113C.SSF	589792.511	47770
722044.536	4294247.659	5862	21-Dec-13	ALEX122113C.SSF	589793.5901	47771
722043.941	4294247.28	5502	21-Dec-13	ALEX122113C.SSF	589794.4141	47772
722043.339	4294246.762	6035	21-Dec-13	ALEX122113C.SSF	589795.5139	47773
722042.879	4294246.233	7453	21-Dec-13	ALEX122113C.SSF	589796.4961	47774
722042.251	4294245.731	7413	21-Dec-13	ALEX122113C.SSF	589797.541	47775
722041.837	4294245.383	6653	21-Dec-13	ALEX122113C.SSF	589798.481	47776
722041.472	4294245.167	6913	21-Dec-13	ALEX122113C.SSF	589799.511	47777
722040.941	4294245.022	5838	21-Dec-13	ALEX122113C.SSF	589800.418	47778
722040.149	4294244.588	5699	21-Dec-13	ALEX122113C.SSF	589801.5229	47779
722039.512	4294244.094	5695	21-Dec-13	ALEX122113C.SSF	589802.4231	47780
722038.672	4294243.652	5416	21-Dec-13	ALEX122113C.SSF	589803.519	47781
722038.007	4294243.24	5649	21-Dec-13	ALEX122113C.SSF	589804.4419	47782
722037.381	4294242.607	5540	21-Dec-13	ALEX122113C.SSF	589805.458	47783
722036.702	4294242.06	6318	21-Dec-13	ALEX122113C.SSF	589806.4619	47784
722035.948	4294241.496	6979	21-Dec-13	ALEX122113C.SSF	589807.4861	47785
722035.313	4294240.927	6245	21-Dec-13	ALEX122113C.SSF	589808.4009	47786
722034.635	4294240.515	7201	21-Dec-13	ALEX122113C.SSF	589809.4771	47787
722034.21	4294240.357	7830	21-Dec-13	ALEX122113C.SSF	589810.5161	47788
722034.106	4294240.231	7147	21-Dec-13	ALEX122113C.SSF	589811.531	47789
722034.327	4294239.959	7217	21-Dec-13	ALEX122113C.SSF	589812.519	47790
722034.765	4294239.505	8284	21-Dec-13	ALEX122113C.SSF	589813.521	47791
722035.174	4294239.052	7981	21-Dec-13	ALEX122113C.SSF	589814.521	47792
722035.455	4294238.768	7545	21-Dec-13	ALEX122113C.SSF	589815.593	47793
722035.587	4294238.75	7946	21-Dec-13	ALEX122113C.SSF	589816.499	47794
722035.625	4294238.832	7326	21-Dec-13	ALEX122113C.SSF	589817.5259	47795
722035.632	4294238.918	7801	21-Dec-13	ALEX122113C.SSF	589818.4451	47796
722035.923	4294239.123	8280	21-Dec-13	ALEX122113C.SSF	589819.5259	47797
722036.522	4294239.498	7620	21-Dec-13	ALEX122113C.SSF	589820.5239	47798
722037.116	4294240.06	7305	21-Dec-13	ALEX122113C.SSF	589821.5879	47799
722037.675	4294240.555	6686	21-Dec-13	ALEX122113C.SSF	589822.5149	47800
722038.47	4294241.08	7311	21-Dec-13	ALEX122113C.SSF	589823.5681	47801
722050.311	4294250.016	5908	21-Dec-13	ALEX122113C.SSF	589847.147	47802
722050.319	4294250.021	5755	21-Dec-13	ALEX122113C.SSF	589847.156	47803
722050.329	4294250.027	5787	21-Dec-13	ALEX122113C.SSF	589847.168	47804

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722050.333	4294250.03	6022	21-Dec-13	ALEX122113C.SSF	589847.1731	47805
722050.339	4294250.033	6282	21-Dec-13	ALEX122113C.SSF	589847.1799	47806
722050.343	4294250.035	6130	21-Dec-13	ALEX122113C.SSF	589847.1841	47807
722050.347	4294250.038	6932	21-Dec-13	ALEX122113C.SSF	589847.189	47808
722050.349	4294250.04	5779	21-Dec-13	ALEX122113C.SSF	589847.1919	47809
722050.353	4294250.042	5928	21-Dec-13	ALEX122113C.SSF	589847.196	47810
722050.356	4294250.044	5989	21-Dec-13	ALEX122113C.SSF	589847.2	47811
722050.359	4294250.046	5559	21-Dec-13	ALEX122113C.SSF	589847.2041	47812
722050.362	4294250.048	5609	21-Dec-13	ALEX122113C.SSF	589847.207	47813
722050.366	4294250.05	6573	21-Dec-13	ALEX122113C.SSF	589847.2119	47814
722050.369	4294250.052	6305	21-Dec-13	ALEX122113C.SSF	589847.2161	47815
722050.374	4294250.056	6316	21-Dec-13	ALEX122113C.SSF	589847.2219	47816
722050.379	4294250.058	6109	21-Dec-13	ALEX122113C.SSF	589847.2271	47817
722050.381	4294250.06	6131	21-Dec-13	ALEX122113C.SSF	589847.23	47818
722050.384	4294250.062	5642	21-Dec-13	ALEX122113C.SSF	589847.2339	47819
722050.389	4294250.065	5791	21-Dec-13	ALEX122113C.SSF	589847.239	47820
722050.393	4294250.067	5897	21-Dec-13	ALEX122113C.SSF	589847.2439	47821
722050.396	4294250.069	5665	21-Dec-13	ALEX122113C.SSF	589847.248	47822
722050.399	4294250.071	5369	21-Dec-13	ALEX122113C.SSF	589847.251	47823
722050.409	4294250.077	5367	21-Dec-13	ALEX122113C.SSF	589847.2629	47824
722050.652	4294250.231	5839	21-Dec-13	ALEX122113C.SSF	589847.552	47825
722051.424	4294250.691	5827	21-Dec-13	ALEX122113C.SSF	589848.5061	47826
722051.425	4294250.691	5850	21-Dec-13	ALEX122113C.SSF	589848.5071	47827
722051.426	4294250.691	5773	21-Dec-13	ALEX122113C.SSF	589848.5081	47828
722051.427	4294250.692	5836	21-Dec-13	ALEX122113C.SSF	589848.51	47830
722053.149	4294251.469	6088	21-Dec-13	ALEX122113C.SSF	589851.0029	47831
722053.528	4294251.718	5643	21-Dec-13	ALEX122113C.SSF	589851.9541	47832
722054.906	4294251.883	5461	21-Dec-13	ALEX122113C.SSF	589855.561	47833
722054.869	4294251.885	5697	21-Dec-13	ALEX122113C.SSF	589856.4709	47834
722045.279	4294243.027	5387	21-Dec-13	ALEX122113C.SSF	589884.7109	47835
722045.273	4294243.022	6600	21-Dec-13	ALEX122113C.SSF	589884.7219	47836
722045.261	4294243.013	6060	21-Dec-13	ALEX122113C.SSF	589884.7439	47837
722045.258	4294243.011	5925	21-Dec-13	ALEX122113C.SSF	589884.749	47838
722045.253	4294243.007	5628	21-Dec-13	ALEX122113C.SSF	589884.7581	47839
722045.246	4294243.002	5565	21-Dec-13	ALEX122113C.SSF	589884.77	47840
722045.238	4294242.996	5853	21-Dec-13	ALEX122113C.SSF	589884.7849	47841
722045.232	4294242.992	5645	21-Dec-13	ALEX122113C.SSF	589884.7959	47842
722045.217	4294242.981	5792	21-Dec-13	ALEX122113C.SSF	589884.822	47843
722045.18	4294242.955	5823	21-Dec-13	ALEX122113C.SSF	589884.887	47844
722045.175	4294242.951	5945	21-Dec-13	ALEX122113C.SSF	589884.897	47845
722045.168	4294242.946	5559	21-Dec-13	ALEX122113C.SSF	589884.9089	47846
722045.151	4294242.933	5452	21-Dec-13	ALEX122113C.SSF	589884.9399	47847
722045.148	4294242.931	5332	21-Dec-13	ALEX122113C.SSF	589884.9451	47848
722045.145	4294242.929	5241	21-Dec-13	ALEX122113C.SSF	589884.949	47849
722045.143	4294242.927	5453	21-Dec-13	ALEX122113C.SSF	589884.9541	47850
722045.14	4294242.925	5182	21-Dec-13	ALEX122113C.SSF	589884.959	47851
722045.136	4294242.923	5315	21-Dec-13	ALEX122113C.SSF	589884.9651	47852

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722045.13	4294242.918	5914	21-Dec-13	ALEX122113C.SSF	589884.9771	47853
722045.126	4294242.915	5599	21-Dec-13	ALEX122113C.SSF	589884.9829	47854
722045.119	4294242.91	5670	21-Dec-13	ALEX122113C.SSF	589884.9961	47855
722045.108	4294242.898	7901	21-Dec-13	ALEX122113C.SSF	589885.019	47856
722045.102	4294242.891	6835	21-Dec-13	ALEX122113C.SSF	589885.032	47857
722045.095	4294242.883	6118	21-Dec-13	ALEX122113C.SSF	589885.0471	47858
722045.083	4294242.869	6299	21-Dec-13	ALEX122113C.SSF	589885.073	47859
722045.077	4294242.862	7755	21-Dec-13	ALEX122113C.SSF	589885.0869	47860
722045.069	4294242.852	6228	21-Dec-13	ALEX122113C.SSF	589885.104	47861
722045.057	4294242.837	7017	21-Dec-13	ALEX122113C.SSF	589885.1321	47862
722044.908	4294242.662	5774	21-Dec-13	ALEX122113C.SSF	589885.458	47863
722044.467	4294242.281	6060	21-Dec-13	ALEX122113C.SSF	589886.4041	47864
722043.868	4294241.91	5722	21-Dec-13	ALEX122113C.SSF	589887.5271	47865
722041.552	4294240.392	5956	21-Dec-13	ALEX122113C.SSF	589890.894	47866
722041.548	4294240.389	6823	21-Dec-13	ALEX122113C.SSF	589890.8999	47867
722041.544	4294240.385	6656	21-Dec-13	ALEX122113C.SSF	589890.907	47868
722041.543	4294240.384	6974	21-Dec-13	ALEX122113C.SSF	589890.908	47869
722041.542	4294240.384	7053	21-Dec-13	ALEX122113C.SSF	589890.9089	47870
722041.542	4294240.383	7313	21-Dec-13	ALEX122113C.SSF	589890.9099	47871
722041.541	4294240.382	6808	21-Dec-13	ALEX122113C.SSF	589890.9109	47872
722041.093	4294240.108	7072	21-Dec-13	ALEX122113C.SSF	589891.519	47873
722040.408	4294239.793	6958	21-Dec-13	ALEX122113C.SSF	589892.4409	47874
722038.36	4294238.694	8099	21-Dec-13	ALEX122113C.SSF	589895.5601	47875
722037.868	4294238.555	9825	21-Dec-13	ALEX122113C.SSF	589896.3921	47876
722037.389	4294238.387	8396	21-Dec-13	ALEX122113C.SSF	589897.6221	47877
722037.223	4294238.443	7709	21-Dec-13	ALEX122113C.SSF	589900.55	47878
722037.302	4294238.495	8317	21-Dec-13	ALEX122113C.SSF	589901.425	47879
722037.23	4294238.547	9129	21-Dec-13	ALEX122113C.SSF	589902.436	47880
722037.354	4294238.331	8612	21-Dec-13	ALEX122113C.SSF	589903.5591	47881
722037.747	4294237.897	9293	21-Dec-13	ALEX122113C.SSF	589904.4939	47882
722038.163	4294237.541	8143	21-Dec-13	ALEX122113C.SSF	589905.533	47883
722038.427	4294237.35	8156	21-Dec-13	ALEX122113C.SSF	589906.356	47884
722038.672	4294237.125	8129	21-Dec-13	ALEX122113C.SSF	589907.446	47885
722038.776	4294237.09	8302	21-Dec-13	ALEX122113C.SSF	589908.365	47886
722038.842	4294237.171	8585	21-Dec-13	ALEX122113C.SSF	589909.4819	47887
722038.807	4294237.226	8626	21-Dec-13	ALEX122113C.SSF	589910.4199	47888
722038.737	4294237.24	9086	21-Dec-13	ALEX122113C.SSF	589911.5249	47889
722038.69	4294237.223	8931	21-Dec-13	ALEX122113C.SSF	589912.4131	47890
722038.646	4294237.185	8263	21-Dec-13	ALEX122113C.SSF	589913.502	47891
722038.75	4294237.187	8035	21-Dec-13	ALEX122113C.SSF	589914.428	47892
722039.046	4294237.246	7829	21-Dec-13	ALEX122113C.SSF	589915.4839	47893
722039.162	4294237.232	8107	21-Dec-13	ALEX122113C.SSF	589916.3701	47894
722039.079	4294237.222	7876	21-Dec-13	ALEX122113C.SSF	589917.499	47895
722039.166	4294237.474	8809	21-Dec-13	ALEX122113C.SSF	589918.467	47896
722044.526	4294241.491	8142	21-Dec-13	ALEX122113C.SSF	589984.6211	47897
722044.527	4294241.491	7615	21-Dec-13	ALEX122113C.SSF	589984.626	47898
722044.527	4294241.491	8264	21-Dec-13	ALEX122113C.SSF	589984.6289	47899

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722044.527	4294241.491	7286	21-Dec-13	ALEX122113C.SSF	589984.635	47900
722044.528	4294241.491	7791	21-Dec-13	ALEX122113C.SSF	589984.6389	47901
722044.528	4294241.491	7797	21-Dec-13	ALEX122113C.SSF	589984.6431	47902
722044.528	4294241.491	8219	21-Dec-13	ALEX122113C.SSF	589984.646	47903
722044.528	4294241.491	7365	21-Dec-13	ALEX122113C.SSF	589984.6489	47904
722044.529	4294241.491	5921	21-Dec-13	ALEX122113C.SSF	589984.6541	47905
722044.529	4294241.49	6180	21-Dec-13	ALEX122113C.SSF	589984.6589	47906
722044.529	4294241.49	6309	21-Dec-13	ALEX122113C.SSF	589984.6621	47907
722044.53	4294241.49	6017	21-Dec-13	ALEX122113C.SSF	589984.665	47908
722044.53	4294241.49	5769	21-Dec-13	ALEX122113C.SSF	589984.668	47909
722044.53	4294241.49	6033	21-Dec-13	ALEX122113C.SSF	589984.675	47910
722044.531	4294241.49	6026	21-Dec-13	ALEX122113C.SSF	589984.6799	47911
722044.531	4294241.49	6565	21-Dec-13	ALEX122113C.SSF	589984.6819	47912
722044.531	4294241.49	5871	21-Dec-13	ALEX122113C.SSF	589984.686	47913
722044.531	4294241.49	5882	21-Dec-13	ALEX122113C.SSF	589984.6899	47914
722044.532	4294241.49	6286	21-Dec-13	ALEX122113C.SSF	589984.6931	47915
722044.532	4294241.49	5687	21-Dec-13	ALEX122113C.SSF	589984.696	47916
722044.532	4294241.49	5989	21-Dec-13	ALEX122113C.SSF	589984.7029	47917
722044.533	4294241.49	5471	21-Dec-13	ALEX122113C.SSF	589984.708	47918
722044.533	4294241.49	5747	21-Dec-13	ALEX122113C.SSF	589984.7129	47919
722044.534	4294241.49	5920	21-Dec-13	ALEX122113C.SSF	589984.72	47920
722044.534	4294241.49	6015	21-Dec-13	ALEX122113C.SSF	589984.73	47921
722044.535	4294241.49	5450	21-Dec-13	ALEX122113C.SSF	589984.741	47922
722044.536	4294241.49	5811	21-Dec-13	ALEX122113C.SSF	589984.751	47923
722044.537	4294241.49	5563	21-Dec-13	ALEX122113C.SSF	589984.76	47924
722044.537	4294241.49	5694	21-Dec-13	ALEX122113C.SSF	589984.7671	47925
722044.537	4294241.49	5450	21-Dec-13	ALEX122113C.SSF	589984.7729	47926
722044.538	4294241.49	5908	21-Dec-13	ALEX122113C.SSF	589984.78	47927
722044.539	4294241.489	6113	21-Dec-13	ALEX122113C.SSF	589984.7881	47928
722044.541	4294241.489	9238	21-Dec-13	ALEX122113C.SSF	589984.8149	47929
722044.541	4294241.489	6929	21-Dec-13	ALEX122113C.SSF	589984.821	47930
722044.541	4294241.489	6622	21-Dec-13	ALEX122113C.SSF	589984.825	47931
722044.542	4294241.489	6545	21-Dec-13	ALEX122113C.SSF	589984.8311	47932
722044.542	4294241.489	6376	21-Dec-13	ALEX122113C.SSF	589984.835	47933
722044.542	4294241.489	6274	21-Dec-13	ALEX122113C.SSF	589984.8391	47934
722044.543	4294241.489	6488	21-Dec-13	ALEX122113C.SSF	589984.843	47935
722044.543	4294241.489	7112	21-Dec-13	ALEX122113C.SSF	589984.8479	47936
722044.544	4294241.489	6818	21-Dec-13	ALEX122113C.SSF	589984.8569	47937
722044.544	4294241.489	5844	21-Dec-13	ALEX122113C.SSF	589984.8611	47938
722044.544	4294241.489	5687	21-Dec-13	ALEX122113C.SSF	589984.8669	47939
722044.545	4294241.489	5854	21-Dec-13	ALEX122113C.SSF	589984.8701	47940
722044.545	4294241.489	6105	21-Dec-13	ALEX122113C.SSF	589984.873	47941
722044.547	4294241.489	5364	21-Dec-13	ALEX122113C.SSF	589984.905	47942
722044.547	4294241.489	5942	21-Dec-13	ALEX122113C.SSF	589984.908	47943
722044.548	4294241.488	6143	21-Dec-13	ALEX122113C.SSF	589984.9121	47944
722044.548	4294241.488	6486	21-Dec-13	ALEX122113C.SSF	589984.915	47945
722044.548	4294241.488	6571	21-Dec-13	ALEX122113C.SSF	589984.918	47946

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722044.548	4294241.488	6082	21-Dec-13	ALEX122113C.SSF	589984.9209	47947
722044.549	4294241.488	6020	21-Dec-13	ALEX122113C.SSF	589984.925	47948
722044.549	4294241.488	6622	21-Dec-13	ALEX122113C.SSF	589984.928	47949
722044.549	4294241.488	6455	21-Dec-13	ALEX122113C.SSF	589984.9331	47950
722044.549	4294241.488	7314	21-Dec-13	ALEX122113C.SSF	589984.936	47951
722044.55	4294241.488	7348	21-Dec-13	ALEX122113C.SSF	589984.939	47952
722044.55	4294241.488	6337	21-Dec-13	ALEX122113C.SSF	589984.9419	47953
722044.55	4294241.488	6564	21-Dec-13	ALEX122113C.SSF	589984.9451	47954
722044.55	4294241.488	6591	21-Dec-13	ALEX122113C.SSF	589984.949	47955
722044.551	4294241.488	6056	21-Dec-13	ALEX122113C.SSF	589984.9509	47956
722044.551	4294241.488	6471	21-Dec-13	ALEX122113C.SSF	589984.9551	47957
722044.551	4294241.488	6027	21-Dec-13	ALEX122113C.SSF	589984.958	47958
722044.551	4294241.488	5935	21-Dec-13	ALEX122113C.SSF	589984.9619	47959
722044.552	4294241.488	6158	21-Dec-13	ALEX122113C.SSF	589984.9661	47960
722044.552	4294241.488	7269	21-Dec-13	ALEX122113C.SSF	589984.97	47961
722044.553	4294241.488	6647	21-Dec-13	ALEX122113C.SSF	589984.981	47962
722044.549	4294241.486	6671	21-Dec-13	ALEX122113C.SSF	589985.458	47963
722044.539	4294241.482	7158	21-Dec-13	ALEX122113C.SSF	589986.3579	47964
722044.518	4294241.475	6589	21-Dec-13	ALEX122113C.SSF	589988.1831	47965
722044.518	4294241.475	5711	21-Dec-13	ALEX122113C.SSF	589988.1841	47966
722044.518	4294241.475	6295	21-Dec-13	ALEX122113C.SSF	589988.1851	47967
722044.518	4294241.475	5833	21-Dec-13	ALEX122113C.SSF	589988.186	47968
722044.518	4294241.475	5981	21-Dec-13	ALEX122113C.SSF	589988.187	47969
722044.518	4294241.475	5318	21-Dec-13	ALEX122113C.SSF	589988.188	47970
722044.517	4294241.475	5804	21-Dec-13	ALEX122113C.SSF	589988.2371	47971
722044.517	4294241.475	6646	21-Dec-13	ALEX122113C.SSF	589988.239	47972
722044.392	4294241.431	6491	21-Dec-13	ALEX122113C.SSF	589999.2119	47973
722044.391	4294241.431	6753	21-Dec-13	ALEX122113C.SSF	589999.2261	47974
722044.391	4294241.431	6578	21-Dec-13	ALEX122113C.SSF	589999.2561	47975
722044.391	4294241.431	5514	21-Dec-13	ALEX122113C.SSF	589999.2639	47976
722044.391	4294241.431	5404	21-Dec-13	ALEX122113C.SSF	589999.271	47977
722044.391	4294241.431	5642	21-Dec-13	ALEX122113C.SSF	589999.2771	47978
722044.391	4294241.431	5986	21-Dec-13	ALEX122113C.SSF	589999.281	47979
722044.391	4294241.431	6790	21-Dec-13	ALEX122113C.SSF	589999.2871	47980
722044.391	4294241.431	5807	21-Dec-13	ALEX122113C.SSF	589999.293	47981
722044.391	4294241.431	5764	21-Dec-13	ALEX122113C.SSF	589999.2981	47982
722044.391	4294241.431	5747	21-Dec-13	ALEX122113C.SSF	589999.2991	47983
722044.391	4294241.431	6015	21-Dec-13	ALEX122113C.SSF	589999.3	47984
722044.391	4294241.431	6260	21-Dec-13	ALEX122113C.SSF	589999.301	47985
722044.391	4294241.431	5435	21-Dec-13	ALEX122113C.SSF	589999.302	47986
722044.318	4294241.406	5554	21-Dec-13	ALEX122113C.SSF	590005.634	47987
722044.263	4294241.387	7648	21-Dec-13	ALEX122113C.SSF	590010.498	47988
722044.251	4294241.383	6772	21-Dec-13	ALEX122113C.SSF	590011.533	47989
722044.24	4294241.379	6463	21-Dec-13	ALEX122113C.SSF	590012.446	47990
722044.228	4294241.375	7015	21-Dec-13	ALEX122113C.SSF	590013.5601	47991
722044.218	4294241.371	6554	21-Dec-13	ALEX122113C.SSF	590014.4109	47992
722044.205	4294241.367	6117	21-Dec-13	ALEX122113C.SSF	590015.531	47993

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722044.194	4294241.363	5909	21-Dec-13	ALEX122113C.SSF	590016.47	47994
722044.179	4294241.358	5731	21-Dec-13	ALEX122113C.SSF	590017.8491	47995
722044.171	4294241.355	6139	21-Dec-13	ALEX122113C.SSF	590018.4651	47996
722044.159	4294241.351	5794	21-Dec-13	ALEX122113C.SSF	590019.5779	47997
722044.148	4294241.347	5929	21-Dec-13	ALEX122113C.SSF	590020.478	47998
722044.137	4294241.343	5660	21-Dec-13	ALEX122113C.SSF	590021.4951	47999
722044.126	4294241.339	6243	21-Dec-13	ALEX122113C.SSF	590022.428	48000
722044.114	4294241.335	6211	21-Dec-13	ALEX122113C.SSF	590023.4839	48001
722044.104	4294241.332	6202	21-Dec-13	ALEX122113C.SSF	590024.406	48002
722044.09	4294241.327	5701	21-Dec-13	ALEX122113C.SSF	590025.5569	48003
722044.08	4294241.324	6101	21-Dec-13	ALEX122113C.SSF	590026.4209	48004
722044.068	4294241.319	6295	21-Dec-13	ALEX122113C.SSF	590027.54	48005
722044.057	4294241.315	5915	21-Dec-13	ALEX122113C.SSF	590028.478	48006
722044.045	4294241.311	5682	21-Dec-13	ALEX122113C.SSF	590029.542	48007
722044.035	4294241.308	6436	21-Dec-13	ALEX122113C.SSF	590030.3999	48008
722044.023	4294241.304	6769	21-Dec-13	ALEX122113C.SSF	590031.4509	48009
722044.012	4294241.3	5802	21-Dec-13	ALEX122113C.SSF	590032.373	48010
722044	4294241.296	5633	21-Dec-13	ALEX122113C.SSF	590033.4871	48011
722043.989	4294241.292	5771	21-Dec-13	ALEX122113C.SSF	590034.405	48012
722043.977	4294241.288	5886	21-Dec-13	ALEX122113C.SSF	590035.458	48013
722043.967	4294241.284	6341	21-Dec-13	ALEX122113C.SSF	590036.387	48014
722043.954	4294241.28	6325	21-Dec-13	ALEX122113C.SSF	590037.499	48015
722044.001	4294241.28	5911	21-Dec-13	ALEX122113C.SSF	590038.3779	48016
722043.989	4294241.326	5980	21-Dec-13	ALEX122113C.SSF	590039.447	48017
722043.841	4294241.377	5797	21-Dec-13	ALEX122113C.SSF	590040.3821	48018
722043.795	4294241.37	5863	21-Dec-13	ALEX122113C.SSF	590041.4551	48019
722043.788	4294241.372	6623	21-Dec-13	ALEX122113C.SSF	590042.3899	48020
722043.791	4294241.394	5976	21-Dec-13	ALEX122113C.SSF	590043.47	48021
722043.787	4294241.408	6264	21-Dec-13	ALEX122113C.SSF	590044.4399	48022
722043.783	4294241.422	5916	21-Dec-13	ALEX122113C.SSF	590045.4399	48023
722043.96	4294241.344	6493	21-Dec-13	ALEX122113C.SSF	590046.3911	48024
722044.274	4294241.179	5463	21-Dec-13	ALEX122113C.SSF	590047.5559	48025
722044.144	4294241.248	5765	21-Dec-13	ALEX122113C.SSF	590048.373	48026
722043.603	4294241.508	6213	21-Dec-13	ALEX122113C.SSF	590049.459	48027
722043.246	4294241.62	6503	21-Dec-13	ALEX122113C.SSF	590050.3279	48028
722043.326	4294241.644	6395	21-Dec-13	ALEX122113C.SSF	590051.4929	48029
722043.578	4294241.732	6549	21-Dec-13	ALEX122113C.SSF	590052.3279	48030
722043.813	4294241.75	6467	21-Dec-13	ALEX122113C.SSF	590053.384	48031
722043.951	4294241.715	5993	21-Dec-13	ALEX122113C.SSF	590054.373	48032
722044.31	4294241.817	6437	21-Dec-13	ALEX122113C.SSF	590055.51	48033
722044.85	4294242.001	5989	21-Dec-13	ALEX122113C.SSF	590056.4409	48034
722045.411	4294242.38	6211	21-Dec-13	ALEX122113C.SSF	590057.5161	48035
722046.089	4294242.781	5812	21-Dec-13	ALEX122113C.SSF	590058.3979	48036
722046.936	4294243.146	6499	21-Dec-13	ALEX122113C.SSF	590059.4519	48037
722047.13	4294243.336	6127	21-Dec-13	ALEX122113C.SSF	590060.405	48038
722047.394	4294243.514	5537	21-Dec-13	ALEX122113C.SSF	590061.449	48039
722047.737	4294243.691	5590	21-Dec-13	ALEX122113C.SSF	590062.428	48040

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722048.079	4294244.115	5394	21-Dec-13	ALEX122113C.SSF	590063.4021	48041
722048.437	4294244.816	5854	21-Dec-13	ALEX122113C.SSF	590064.377	48042
722049.201	4294245.748	5910	21-Dec-13	ALEX122113C.SSF	590065.4561	48043
722050.246	4294246.505	5702	21-Dec-13	ALEX122113C.SSF	590066.4541	48044
722050.985	4294247.097	5832	21-Dec-13	ALEX122113C.SSF	590067.541	48045
722051.327	4294247.381	5590	21-Dec-13	ALEX122113C.SSF	590068.4829	48046
722051.784	4294247.767	5604	21-Dec-13	ALEX122113C.SSF	590069.4609	48047
722052.21	4294248.264	5620	21-Dec-13	ALEX122113C.SSF	590070.3821	48048
722052.743	4294248.811	5508	21-Dec-13	ALEX122113C.SSF	590071.7151	48049
722053.134	4294249.137	5513	21-Dec-13	ALEX122113C.SSF	590072.4189	48050
722053.678	4294249.723	5441	21-Dec-13	ALEX122113C.SSF	590073.5569	48051
722053.972	4294250.081	5723	21-Dec-13	ALEX122113C.SSF	590074.377	48052
722054.614	4294250.509	5304	21-Dec-13	ALEX122113C.SSF	590075.4529	48053
722055.314	4294250.792	5953	21-Dec-13	ALEX122113C.SSF	590076.4839	48054
722055.518	4294250.776	6049	21-Dec-13	ALEX122113C.SSF	590077.4441	48055
722055.494	4294250.637	6498	21-Dec-13	ALEX122113C.SSF	590078.8811	48056
722055.513	4294250.605	5707	21-Dec-13	ALEX122113C.SSF	590079.719	48057
722055.489	4294250.57	6060	21-Dec-13	ALEX122113C.SSF	590080.74	48058
722055.474	4294250.524	5445	21-Dec-13	ALEX122113C.SSF	590081.7649	48059
722055.498	4294250.497	5688	21-Dec-13	ALEX122113C.SSF	590082.447	48060
722055.518	4294250.471	5291	21-Dec-13	ALEX122113C.SSF	590083.5081	48061
722054.829	4294249.566	5601	21-Dec-13	ALEX122113C.SSF	590086.886	48062
722054.819	4294249.553	5633	21-Dec-13	ALEX122113C.SSF	590086.9141	48063
722054.818	4294249.551	5831	21-Dec-13	ALEX122113C.SSF	590086.918	48064
722054.817	4294249.55	6047	21-Dec-13	ALEX122113C.SSF	590086.9209	48065
722054.816	4294249.548	5591	21-Dec-13	ALEX122113C.SSF	590086.925	48066
722054.814	4294249.546	5485	21-Dec-13	ALEX122113C.SSF	590086.929	48067
722054.813	4294249.545	5755	21-Dec-13	ALEX122113C.SSF	590086.9319	48068
722054.811	4294249.542	5547	21-Dec-13	ALEX122113C.SSF	590086.938	48069
722054.81	4294249.54	5595	21-Dec-13	ALEX122113C.SSF	590086.9419	48070
722054.808	4294249.538	5674	21-Dec-13	ALEX122113C.SSF	590086.946	48071
722054.807	4294249.537	5659	21-Dec-13	ALEX122113C.SSF	590086.949	48072
722054.806	4294249.535	5797	21-Dec-13	ALEX122113C.SSF	590086.9529	48073
722054.805	4294249.533	5556	21-Dec-13	ALEX122113C.SSF	590086.9561	48074
722054.803	4294249.531	6117	21-Dec-13	ALEX122113C.SSF	590086.9609	48075
722054.802	4294249.529	5609	21-Dec-13	ALEX122113C.SSF	590086.9651	48076
722054.798	4294249.525	5652	21-Dec-13	ALEX122113C.SSF	590086.9741	48077
722054.754	4294249.465	5707	21-Dec-13	ALEX122113C.SSF	590087.1011	48078
722054.749	4294249.459	6010	21-Dec-13	ALEX122113C.SSF	590087.114	48079
722054.746	4294249.455	5908	21-Dec-13	ALEX122113C.SSF	590087.123	48080
722054.651	4294249.327	5200	21-Dec-13	ALEX122113C.SSF	590087.395	48081
722054.621	4294249.286	5310	21-Dec-13	ALEX122113C.SSF	590087.481	48082
722054.531	4294249.164	5627	21-Dec-13	ALEX122113C.SSF	590087.74	48083
722054.524	4294249.155	6285	21-Dec-13	ALEX122113C.SSF	590087.759	48084
722053.651	4294248.002	5777	21-Dec-13	ALEX122113C.SSF	590090.178	48085
722053.125	4294247.422	5717	21-Dec-13	ALEX122113C.SSF	590091.2251	48086
722052.489	4294246.72	5984	21-Dec-13	ALEX122113C.SSF	590092.4929	48087

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722043.151	4294237.499	6099	21-Dec-13	ALEX122113C.SSF	590110.699	48088
722043.149	4294237.496	8214	21-Dec-13	ALEX122113C.SSF	590110.7339	48089
722043.148	4294237.495	7843	21-Dec-13	ALEX122113C.SSF	590110.741	48090
722043.147	4294237.494	7331	21-Dec-13	ALEX122113C.SSF	590110.752	48091
722043.147	4294237.494	7322	21-Dec-13	ALEX122113C.SSF	590110.7581	48092
722043.147	4294237.493	6960	21-Dec-13	ALEX122113C.SSF	590110.7629	48093
722043.146	4294237.493	7080	21-Dec-13	ALEX122113C.SSF	590110.771	48094
722043.146	4294237.492	7200	21-Dec-13	ALEX122113C.SSF	590110.7759	48095
722043.146	4294237.492	6540	21-Dec-13	ALEX122113C.SSF	590110.781	48096
722043.145	4294237.491	6915	21-Dec-13	ALEX122113C.SSF	590110.7881	48097
722043.145	4294237.49	6738	21-Dec-13	ALEX122113C.SSF	590110.801	48098
722043.144	4294237.49	6574	21-Dec-13	ALEX122113C.SSF	590110.811	48099
722043.144	4294237.489	8903	21-Dec-13	ALEX122113C.SSF	590110.8191	48100
722043.143	4294237.488	8016	21-Dec-13	ALEX122113C.SSF	590110.8301	48101
722043.142	4294237.488	8124	21-Dec-13	ALEX122113C.SSF	590110.8369	48102
722043.142	4294237.487	7641	21-Dec-13	ALEX122113C.SSF	590110.844	48103
722043.142	4294237.486	7730	21-Dec-13	ALEX122113C.SSF	590110.8511	48104
722043.141	4294237.486	8172	21-Dec-13	ALEX122113C.SSF	590110.856	48105
722043.141	4294237.486	8493	21-Dec-13	ALEX122113C.SSF	590110.8569	48106
722043.141	4294237.486	7613	21-Dec-13	ALEX122113C.SSF	590110.8579	48107
722043.141	4294237.486	8743	21-Dec-13	ALEX122113C.SSF	590110.8589	48108
722043.141	4294237.486	8036	21-Dec-13	ALEX122113C.SSF	590110.8601	48109
722043.141	4294237.486	9149	21-Dec-13	ALEX122113C.SSF	590110.8611	48110
722043.141	4294237.486	9367	21-Dec-13	ALEX122113C.SSF	590110.8621	48111
722043.141	4294237.485	8641	21-Dec-13	ALEX122113C.SSF	590110.863	48112
722043.125	4294237.464	8010	21-Dec-13	ALEX122113C.SSF	590111.1279	48113
722043.086	4294237.411	8422	21-Dec-13	ALEX122113C.SSF	590111.7859	48114
722042.313	4294236.355	8465	21-Dec-13	ALEX122113C.SSF	590125.1299	48115
722042.272	4294236.297	8836	21-Dec-13	ALEX122113C.SSF	590125.9839	48116
722042.091	4294236.063	9379	21-Dec-13	ALEX122113C.SSF	590127.3311	48117
722041.431	4294235.597	8404	21-Dec-13	ALEX122113C.SSF	590128.6589	48118
722041.188	4294235.542	7651	21-Dec-13	ALEX122113C.SSF	590129.1279	48119
722040.575	4294235.847	7672	21-Dec-13	ALEX122113C.SSF	590132.655	48120
722040.574	4294235.847	7558	21-Dec-13	ALEX122113C.SSF	590132.6599	48121
722040.569	4294235.848	8339	21-Dec-13	ALEX122113C.SSF	590132.679	48122
722040.498	4294235.864	8205	21-Dec-13	ALEX122113C.SSF	590133.063	48123
722040.52	4294235.9	7901	21-Dec-13	ALEX122113C.SSF	590133.9241	48124
722040.595	4294235.917	8185	21-Dec-13	ALEX122113C.SSF	590135.075	48125
722040.595	4294235.917	8046	21-Dec-13	ALEX122113C.SSF	590135.0759	48126
722040.595	4294235.917	7741	21-Dec-13	ALEX122113C.SSF	590135.0769	48127
722040.595	4294235.917	8655	21-Dec-13	ALEX122113C.SSF	590135.0779	48128
722040.595	4294235.917	8883	21-Dec-13	ALEX122113C.SSF	590135.0791	48129
722040.595	4294235.917	9121	21-Dec-13	ALEX122113C.SSF	590135.0801	48130
722040.65	4294235.908	8610	21-Dec-13	ALEX122113C.SSF	590135.9629	48131
722040.679	4294235.918	8422	21-Dec-13	ALEX122113C.SSF	590136.792	48132
722040.679	4294235.918	8525	21-Dec-13	ALEX122113C.SSF	590136.793	48133
722040.679	4294235.918	8641	21-Dec-13	ALEX122113C.SSF	590136.7939	48134

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722040.692	4294235.926	8310	21-Dec-13	ALEX122113C.SSF	590137.4351	48135
722040.706	4294235.936	7957	21-Dec-13	ALEX122113C.SSF	590138.3611	48136
722040.766	4294235.976	8769	21-Dec-13	ALEX122113C.SSF	590140.0349	48137
722040.781	4294235.995	9212	21-Dec-13	ALEX122113C.SSF	590141.042	48138
722040.749	4294235.978	9323	21-Dec-13	ALEX122113C.SSF	590142.0029	48139
722040.75	4294235.973	8900	21-Dec-13	ALEX122113C.SSF	590142.937	48140
722040.751	4294235.967	7955	21-Dec-13	ALEX122113C.SSF	590143.9829	48141
722040.77	4294235.992	7868	21-Dec-13	ALEX122113C.SSF	590145.585	48142
722040.753	4294235.973	8207	21-Dec-13	ALEX122113C.SSF	590146.6421	48143
722040.751	4294235.944	8561	21-Dec-13	ALEX122113C.SSF	590147.606	48144
722040.636	4294236.188	7930	21-Dec-13	ALEX122113C.SSF	590150.4109	48145
722040.67	4294236.22	8612	21-Dec-13	ALEX122113C.SSF	590151.2529	48146
722040.657	4294236.077	8963	21-Dec-13	ALEX122113C.SSF	590158.002	48147
722040.657	4294236.077	7250	21-Dec-13	ALEX122113C.SSF	590158.011	48148
722040.657	4294236.078	8202	21-Dec-13	ALEX122113C.SSF	590158.02	48149
722040.657	4294236.078	9070	21-Dec-13	ALEX122113C.SSF	590158.0371	48150
722040.657	4294236.078	9227	21-Dec-13	ALEX122113C.SSF	590158.043	48151
722040.657	4294236.078	8696	21-Dec-13	ALEX122113C.SSF	590158.053	48152
722040.655	4294236.081	8144	21-Dec-13	ALEX122113C.SSF	590158.3479	48153
722040.654	4294236.079	8366	21-Dec-13	ALEX122113C.SSF	590159.427	48154
722040.65	4294236.076	7911	21-Dec-13	ALEX122113C.SSF	590160.387	48155
722040.648	4294236.078	8547	21-Dec-13	ALEX122113C.SSF	590160.4751	48156
722040.631	4294236.095	7747	21-Dec-13	ALEX122113C.SSF	590161.272	48157
722040.631	4294236.095	8266	21-Dec-13	ALEX122113C.SSF	590161.2781	48158
722040.631	4294236.095	8666	21-Dec-13	ALEX122113C.SSF	590161.281	48159
722040.631	4294236.095	9486	21-Dec-13	ALEX122113C.SSF	590161.2881	48160
722040.63	4294236.095	8431	21-Dec-13	ALEX122113C.SSF	590161.2949	48161
722040.403	4294236.049	9877	21-Dec-13	ALEX122113C.SSF	590172.2209	48162
722040.404	4294236.049	7329	21-Dec-13	ALEX122113C.SSF	590172.228	48163
722040.404	4294236.049	8342	21-Dec-13	ALEX122113C.SSF	590172.2329	48164
722040.404	4294236.049	7965	21-Dec-13	ALEX122113C.SSF	590172.2429	48165
722040.404	4294236.049	7991	21-Dec-13	ALEX122113C.SSF	590172.251	48166
722040.405	4294236.049	8058	21-Dec-13	ALEX122113C.SSF	590172.2739	48167
722040.405	4294236.049	8404	21-Dec-13	ALEX122113C.SSF	590172.2791	48168
722040.405	4294236.049	8791	21-Dec-13	ALEX122113C.SSF	590172.29	48169
722040.405	4294236.049	7957	21-Dec-13	ALEX122113C.SSF	590172.2959	48170
722040.405	4294236.049	8049	21-Dec-13	ALEX122113C.SSF	590172.301	48171
722040.406	4294236.049	8852	21-Dec-13	ALEX122113C.SSF	590172.3479	48172
722040.525	4294236.122	8543	21-Dec-13	ALEX122113C.SSF	590182.8679	48173
722040.525	4294236.122	8345	21-Dec-13	ALEX122113C.SSF	590182.8789	48174
722040.525	4294236.122	7816	21-Dec-13	ALEX122113C.SSF	590182.885	48175
722040.525	4294236.122	9484	21-Dec-13	ALEX122113C.SSF	590182.8921	48176
722040.525	4294236.122	8671	21-Dec-13	ALEX122113C.SSF	590182.8999	48177
722040.525	4294236.122	8137	21-Dec-13	ALEX122113C.SSF	590182.905	48178
722040.525	4294236.122	8604	21-Dec-13	ALEX122113C.SSF	590182.9109	48179
722040.525	4294236.122	8601	21-Dec-13	ALEX122113C.SSF	590182.916	48180
722040.525	4294236.122	8180	21-Dec-13	ALEX122113C.SSF	590182.9199	48181

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722040.525	4294236.122	9815	21-Dec-13	ALEX122113C.SSF	590182.9241	48182
722040.525	4294236.122	8753	21-Dec-13	ALEX122113C.SSF	590182.928	48183
722040.525	4294236.122	8638	21-Dec-13	ALEX122113C.SSF	590183.7871	48184
722040.604	4294236.05	8729	21-Dec-13	ALEX122113C.SSF	590184.9309	48185
722040.608	4294236.053	9562	21-Dec-13	ALEX122113C.SSF	590185.7871	48186
722040.612	4294236.058	8090	21-Dec-13	ALEX122113C.SSF	590186.804	48187
722040.612	4294236.058	9522	21-Dec-13	ALEX122113C.SSF	590186.8049	48188
722040.612	4294236.058	9880	21-Dec-13	ALEX122113C.SSF	590186.8059	48189
722040.612	4294236.058	8890	21-Dec-13	ALEX122113C.SSF	590186.8069	48190
722040.612	4294236.058	9752	21-Dec-13	ALEX122113C.SSF	590186.8081	48191
722040.612	4294236.058	8768	21-Dec-13	ALEX122113C.SSF	590186.8091	48192
722040.612	4294236.058	8582	21-Dec-13	ALEX122113C.SSF	590186.8101	48193
722040.612	4294236.058	8625	21-Dec-13	ALEX122113C.SSF	590186.811	48194
722040.612	4294236.058	9116	21-Dec-13	ALEX122113C.SSF	590186.812	48195
722040.612	4294236.058	10589	21-Dec-13	ALEX122113C.SSF	590186.813	48196
722040.612	4294236.058	9547	21-Dec-13	ALEX122113C.SSF	590186.814	48197
722040.612	4294236.058	8416	21-Dec-13	ALEX122113C.SSF	590186.8149	48198
722040.612	4294236.058	8974	21-Dec-13	ALEX122113C.SSF	590186.8159	48199
722040.612	4294236.058	9533	21-Dec-13	ALEX122113C.SSF	590186.8169	48200
722040.183	4294236.254	9793	21-Dec-13	ALEX122113C.SSF	590237.7029	48201
722040.183	4294236.254	8658	21-Dec-13	ALEX122113C.SSF	590237.7051	48202
722040.183	4294236.254	8644	21-Dec-13	ALEX122113C.SSF	590237.7109	48203
722040.183	4294236.254	9601	21-Dec-13	ALEX122113C.SSF	590237.7129	48204
722040.183	4294236.254	8760	21-Dec-13	ALEX122113C.SSF	590237.718	48205
722040.183	4294236.254	7650	21-Dec-13	ALEX122113C.SSF	590237.7261	48206
722040.183	4294236.254	8152	21-Dec-13	ALEX122113C.SSF	590237.729	48207
722040.183	4294236.254	9298	21-Dec-13	ALEX122113C.SSF	590237.7329	48208
722040.183	4294236.254	9074	21-Dec-13	ALEX122113C.SSF	590237.7361	48209
722040.183	4294236.255	9378	21-Dec-13	ALEX122113C.SSF	590237.7461	48210
722040.182	4294236.255	8224	21-Dec-13	ALEX122113C.SSF	590237.7539	48211
722040.182	4294236.255	9496	21-Dec-13	ALEX122113C.SSF	590237.759	48212
722040.182	4294236.255	8854	21-Dec-13	ALEX122113C.SSF	590237.7639	48213
722040.182	4294236.255	8243	21-Dec-13	ALEX122113C.SSF	590237.769	48214
722040.182	4294236.255	8481	21-Dec-13	ALEX122113C.SSF	590237.7781	48215
722040.182	4294236.255	8570	21-Dec-13	ALEX122113C.SSF	590237.7871	48216
722040.182	4294236.255	8232	21-Dec-13	ALEX122113C.SSF	590237.7939	48217
722040.182	4294236.255	7848	21-Dec-13	ALEX122113C.SSF	590237.7981	48218
722040.182	4294236.255	9222	21-Dec-13	ALEX122113C.SSF	590237.8049	48219
722040.182	4294236.255	9055	21-Dec-13	ALEX122113C.SSF	590237.823	48220
722040.182	4294236.255	8624	21-Dec-13	ALEX122113C.SSF	590237.833	48221
722040.182	4294236.255	8336	21-Dec-13	ALEX122113C.SSF	590237.8401	48222
722040.181	4294236.255	8084	21-Dec-13	ALEX122113C.SSF	590237.864	48223
722040.114	4294236.285	7661	21-Dec-13	ALEX122113C.SSF	590243.8589	48224
722040.114	4294236.285	8035	21-Dec-13	ALEX122113C.SSF	590243.8701	48225
722040.114	4294236.285	8218	21-Dec-13	ALEX122113C.SSF	590243.8821	48226
722040.114	4294236.285	8564	21-Dec-13	ALEX122113C.SSF	590243.8931	48227
722040.114	4294236.285	10541	21-Dec-13	ALEX122113C.SSF	590243.9141	48228

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722040.114	4294236.285	9055	21-Dec-13	ALEX122113C.SSF	590243.937	48229
722040.113	4294236.286	8833	21-Dec-13	ALEX122113C.SSF	590243.9719	48230
722040.113	4294236.286	9768	21-Dec-13	ALEX122113C.SSF	590243.9951	48231
722040.113	4294236.286	8682	21-Dec-13	ALEX122113C.SSF	590244.0161	48232
722040.112	4294236.286	8830	21-Dec-13	ALEX122113C.SSF	590244.052	48233
722040.112	4294236.286	8147	21-Dec-13	ALEX122113C.SSF	590244.064	48234
722040.112	4294236.286	8336	21-Dec-13	ALEX122113C.SSF	590244.0891	48235
722040.106	4294236.289	8804	21-Dec-13	ALEX122113C.SSF	590244.655	48236
722040.094	4294236.294	9431	21-Dec-13	ALEX122113C.SSF	590245.7019	48237
722040.094	4294236.294	8657	21-Dec-13	ALEX122113C.SSF	590245.7129	48238
722040.093	4294236.295	8524	21-Dec-13	ALEX122113C.SSF	590245.8091	48239
722040.093	4294236.295	8941	21-Dec-13	ALEX122113C.SSF	590245.8259	48240
722040.092	4294236.295	8505	21-Dec-13	ALEX122113C.SSF	590245.845	48241
722040.092	4294236.295	8666	21-Dec-13	ALEX122113C.SSF	590245.8589	48242
722040.092	4294236.295	8226	21-Dec-13	ALEX122113C.SSF	590245.8799	48243
722040.092	4294236.295	8146	21-Dec-13	ALEX122113C.SSF	590245.8989	48244
722040.092	4294236.295	8636	21-Dec-13	ALEX122113C.SSF	590245.9131	48245
722040.091	4294236.295	9389	21-Dec-13	ALEX122113C.SSF	590245.927	48246
722040.091	4294236.295	9217	21-Dec-13	ALEX122113C.SSF	590245.936	48247
722040.091	4294236.295	9354	21-Dec-13	ALEX122113C.SSF	590245.959	48248
722040.091	4294236.296	8938	21-Dec-13	ALEX122113C.SSF	590245.9719	48249
722040.091	4294236.296	8834	21-Dec-13	ALEX122113C.SSF	590245.98	48250
722040.091	4294236.296	9318	21-Dec-13	ALEX122113C.SSF	590245.99	48251
722040.091	4294236.296	8269	21-Dec-13	ALEX122113C.SSF	590246.0059	48252
722040.09	4294236.296	9417	21-Dec-13	ALEX122113C.SSF	590246.0239	48253
722040.09	4294236.296	8594	21-Dec-13	ALEX122113C.SSF	590246.0298	48254
722040.09	4294236.296	8958	21-Dec-13	ALEX122113C.SSF	590246.0391	48255
722040.09	4294236.296	8809	21-Dec-13	ALEX122113C.SSF	590246.0479	48256
722040.09	4294236.296	8472	21-Dec-13	ALEX122113C.SSF	590246.0752	48257
722040.089	4294236.296	9078	21-Dec-13	ALEX122113C.SSF	590246.1021	48258
722040.089	4294236.296	8479	21-Dec-13	ALEX122113C.SSF	590246.124	48259
722040.089	4294236.296	8869	21-Dec-13	ALEX122113C.SSF	590246.1421	48260
722040.089	4294236.297	8127	21-Dec-13	ALEX122113C.SSF	590246.1709	48261
722040.089	4294236.297	8782	21-Dec-13	ALEX122113C.SSF	590246.1812	48262
722040.088	4294236.297	8525	21-Dec-13	ALEX122113C.SSF	590246.1948	48263
722040.088	4294236.297	9061	21-Dec-13	ALEX122113C.SSF	590246.209	48264
722040.088	4294236.297	9285	21-Dec-13	ALEX122113C.SSF	590246.228	48265
722040.088	4294236.297	9551	21-Dec-13	ALEX122113C.SSF	590246.229	48266
722040.088	4294236.297	8958	21-Dec-13	ALEX122113C.SSF	590246.23	48267
722040.088	4294236.297	9469	21-Dec-13	ALEX122113C.SSF	590246.231	48268
722138.514	4294280.129	8457	21-Dec-13	ALEX122113C.SSF	590453.7988	48269
722138.548	4294280.144	7874	21-Dec-13	ALEX122113C.SSF	590453.8672	48270
722138.557	4294280.148	8688	21-Dec-13	ALEX122113C.SSF	590453.8862	48271
722138.558	4294280.149	8682	21-Dec-13	ALEX122113C.SSF	590453.8882	48272
722138.559	4294280.149	9280	21-Dec-13	ALEX122113C.SSF	590453.8892	48273
722138.559	4294280.149	8980	21-Dec-13	ALEX122113C.SSF	590453.8901	48274
722138.559	4294280.149	9265	21-Dec-13	ALEX122113C.SSF	590453.8901	48275

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722138.56	4294280.149	8646	21-Dec-13	ALEX122113C.SSF	590453.8911	48276
722138.56	4294280.15	8041	21-Dec-13	ALEX122113C.SSF	590453.8921	48277
722138.561	4294280.15	8610	21-Dec-13	ALEX122113C.SSF	590453.8931	48278
722138.561	4294280.15	9472	21-Dec-13	ALEX122113C.SSF	590453.894	48279
722138.562	4294280.15	9958	21-Dec-13	ALEX122113C.SSF	590453.895	48280
722138.562	4294280.15	10019	21-Dec-13	ALEX122113C.SSF	590453.895	48281
722138.562	4294280.15	8415	21-Dec-13	ALEX122113C.SSF	590453.896	48282
722138.563	4294280.151	7923	21-Dec-13	ALEX122113C.SSF	590453.897	48283
722138.563	4294280.151	8850	21-Dec-13	ALEX122113C.SSF	590453.8979	48284
722138.563	4294280.151	8752	21-Dec-13	ALEX122113C.SSF	590453.8989	48285
722138.564	4294280.151	8548	21-Dec-13	ALEX122113C.SSF	590453.8999	48286
722138.564	4294280.151	8587	21-Dec-13	ALEX122113C.SSF	590453.8999	48287
722138.564	4294280.151	8446	21-Dec-13	ALEX122113C.SSF	590453.9009	48288
722138.565	4294280.152	9071	21-Dec-13	ALEX122113C.SSF	590453.9019	48289
722138.565	4294280.152	8778	21-Dec-13	ALEX122113C.SSF	590453.9028	48290
722138.566	4294280.152	7954	21-Dec-13	ALEX122113C.SSF	590453.9038	48291
722138.566	4294280.152	8108	21-Dec-13	ALEX122113C.SSF	590453.9048	48292
722138.567	4294280.153	9287	21-Dec-13	ALEX122113C.SSF	590453.9058	48293
722138.567	4294280.153	9131	21-Dec-13	ALEX122113C.SSF	590453.9058	48294
722138.568	4294280.153	9183	21-Dec-13	ALEX122113C.SSF	590453.9072	48295
722138.568	4294280.153	8865	21-Dec-13	ALEX122113C.SSF	590453.9082	48296
722138.568	4294280.153	7886	21-Dec-13	ALEX122113C.SSF	590453.9092	48297
722138.569	4294280.153	8991	21-Dec-13	ALEX122113C.SSF	590453.9102	48298
722138.569	4294280.154	9718	21-Dec-13	ALEX122113C.SSF	590453.9111	48299
722138.569	4294280.154	7919	21-Dec-13	ALEX122113C.SSF	590453.9111	48300
722138.57	4294280.154	8850	21-Dec-13	ALEX122113C.SSF	590453.9121	48301
722138.57	4294280.154	8212	21-Dec-13	ALEX122113C.SSF	590453.9131	48302
722138.571	4294280.154	8263	21-Dec-13	ALEX122113C.SSF	590453.9141	48303
722138.571	4294280.155	9145	21-Dec-13	ALEX122113C.SSF	590453.915	48304
722138.572	4294280.155	9186	21-Dec-13	ALEX122113C.SSF	590453.916	48305
722138.572	4294280.155	8746	21-Dec-13	ALEX122113C.SSF	590453.917	48306
722138.573	4294280.155	9866	21-Dec-13	ALEX122113C.SSF	590453.918	48307
722138.573	4294280.155	8646	21-Dec-13	ALEX122113C.SSF	590453.9189	48308
722138.574	4294280.156	8461	21-Dec-13	ALEX122113C.SSF	590453.9199	48309
722138.574	4294280.156	8445	21-Dec-13	ALEX122113C.SSF	590453.9199	48310
722138.574	4294280.156	8741	21-Dec-13	ALEX122113C.SSF	590453.9209	48311
722138.575	4294280.156	9895	21-Dec-13	ALEX122113C.SSF	590453.9219	48312
722138.575	4294280.156	9074	21-Dec-13	ALEX122113C.SSF	590453.9229	48313
722138.576	4294280.156	9438	21-Dec-13	ALEX122113C.SSF	590453.9238	48314
722138.576	4294280.157	9139	21-Dec-13	ALEX122113C.SSF	590453.9248	48315
722138.577	4294280.157	8374	21-Dec-13	ALEX122113C.SSF	590453.9258	48316
722138.577	4294280.157	9263	21-Dec-13	ALEX122113C.SSF	590453.9268	48317
722138.578	4294280.157	9246	21-Dec-13	ALEX122113C.SSF	590453.9282	48318
722138.578	4294280.158	8341	21-Dec-13	ALEX122113C.SSF	590453.9292	48319
722138.579	4294280.158	8475	21-Dec-13	ALEX122113C.SSF	590453.9302	48320
722138.579	4294280.158	9228	21-Dec-13	ALEX122113C.SSF	590453.9312	48321
722138.58	4294280.158	9057	21-Dec-13	ALEX122113C.SSF	590453.9321	48322

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722138.58	4294280.158	8684	21-Dec-13	ALEX122113C.SSF	590453.9331	48323
722138.58	4294280.158	8441	21-Dec-13	ALEX122113C.SSF	590453.9331	48324
722138.581	4294280.159	8830	21-Dec-13	ALEX122113C.SSF	590453.9341	48325
722138.581	4294280.159	7937	21-Dec-13	ALEX122113C.SSF	590453.9351	48326
722138.582	4294280.159	7894	21-Dec-13	ALEX122113C.SSF	590453.936	48327
722138.638	4294280.184	7673	21-Dec-13	ALEX122113C.SSF	590454.0508	48328
722138.64	4294280.185	8878	21-Dec-13	ALEX122113C.SSF	590454.0542	48329
722138.641	4294280.186	8759	21-Dec-13	ALEX122113C.SSF	590454.0571	48330
722138.642	4294280.186	9060	21-Dec-13	ALEX122113C.SSF	590454.0591	48331
722138.644	4294280.187	9855	21-Dec-13	ALEX122113C.SSF	590454.063	48332
722138.645	4294280.187	9003	21-Dec-13	ALEX122113C.SSF	590454.0659	48333
722138.647	4294280.188	9300	21-Dec-13	ALEX122113C.SSF	590454.0688	48334
722138.649	4294280.189	9555	21-Dec-13	ALEX122113C.SSF	590454.0732	48335
722138.65	4294280.19	8358	21-Dec-13	ALEX122113C.SSF	590454.0762	48336
722138.652	4294280.19	8629	21-Dec-13	ALEX122113C.SSF	590454.0791	48337
722138.654	4294280.191	8247	21-Dec-13	ALEX122113C.SSF	590454.083	48338
722138.656	4294280.192	9502	21-Dec-13	ALEX122113C.SSF	590454.0879	48339
722138.663	4294280.195	9275	21-Dec-13	ALEX122113C.SSF	590454.1021	48340
722138.667	4294280.197	8618	21-Dec-13	ALEX122113C.SSF	590454.1099	48341
722138.683	4294280.204	9654	21-Dec-13	ALEX122113C.SSF	590454.1421	48342
722138.688	4294280.206	7963	21-Dec-13	ALEX122113C.SSF	590454.1528	48343
722138.694	4294280.209	7931	21-Dec-13	ALEX122113C.SSF	590454.166	48344
722138.7	4294280.212	7892	21-Dec-13	ALEX122113C.SSF	590454.1782	48345
722138.706	4294280.215	8753	21-Dec-13	ALEX122113C.SSF	590454.1899	48346
722138.714	4294280.218	8698	21-Dec-13	ALEX122113C.SSF	590454.2051	48347
722138.754	4294280.236	8234	21-Dec-13	ALEX122113C.SSF	590454.2871	48348
722138.759	4294280.238	9528	21-Dec-13	ALEX122113C.SSF	590454.2969	48349
722138.769	4294280.242	9972	21-Dec-13	ALEX122113C.SSF	590454.3179	48350
722138.776	4294280.246	8883	21-Dec-13	ALEX122113C.SSF	590454.332	48351
722138.783	4294280.249	7740	21-Dec-13	ALEX122113C.SSF	590454.3472	48352
722138.79	4294280.252	8265	21-Dec-13	ALEX122113C.SSF	590454.3599	48353
722138.795	4294280.254	8576	21-Dec-13	ALEX122113C.SSF	590454.3701	48354
722138.797	4294280.255	8624	21-Dec-13	ALEX122113C.SSF	590454.376	48355
722138.801	4294280.257	7766	21-Dec-13	ALEX122113C.SSF	590454.3828	48356
722138.805	4294280.258	8121	21-Dec-13	ALEX122113C.SSF	590454.3911	48357
722138.81	4294280.261	7370	21-Dec-13	ALEX122113C.SSF	590454.4009	48358
722138.814	4294280.262	8262	21-Dec-13	ALEX122113C.SSF	590454.4092	48359
722138.82	4294280.265	8695	21-Dec-13	ALEX122113C.SSF	590454.4229	48360
722138.824	4294280.267	9074	21-Dec-13	ALEX122113C.SSF	590454.4292	48361
722138.826	4294280.268	9348	21-Dec-13	ALEX122113C.SSF	590454.4341	48362
722138.828	4294280.269	9387	21-Dec-13	ALEX122113C.SSF	590454.438	48363
722138.829	4294280.269	8856	21-Dec-13	ALEX122113C.SSF	590454.4409	48364
722138.831	4294280.27	8514	21-Dec-13	ALEX122113C.SSF	590454.4438	48365
722138.832	4294280.271	8398	21-Dec-13	ALEX122113C.SSF	590454.4468	48366
722138.834	4294280.271	8099	21-Dec-13	ALEX122113C.SSF	590454.4502	48367
722138.835	4294280.272	7845	21-Dec-13	ALEX122113C.SSF	590454.4531	48368
722138.837	4294280.273	8291	21-Dec-13	ALEX122113C.SSF	590454.457	48369

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722138.839	4294280.274	7442	21-Dec-13	ALEX122113C.SSF	590454.46	48370
722138.841	4294280.274	7230	21-Dec-13	ALEX122113C.SSF	590454.4639	48371
722138.842	4294280.275	6127	21-Dec-13	ALEX122113C.SSF	590454.4668	48372
722138.844	4294280.276	6722	21-Dec-13	ALEX122113C.SSF	590454.4702	48373
722138.846	4294280.277	6240	21-Dec-13	ALEX122113C.SSF	590454.4741	48374
722138.847	4294280.277	6390	21-Dec-13	ALEX122113C.SSF	590454.4761	48375
722138.848	4294280.278	5846	21-Dec-13	ALEX122113C.SSF	590454.48	48376
722138.85	4294280.279	5552	21-Dec-13	ALEX122113C.SSF	590454.4829	48377
722138.851	4294280.279	5718	21-Dec-13	ALEX122113C.SSF	590454.4858	48378
722138.853	4294280.28	5796	21-Dec-13	ALEX122113C.SSF	590454.4888	48379
722138.854	4294280.281	5653	21-Dec-13	ALEX122113C.SSF	590454.4922	48380
722138.856	4294280.281	5835	21-Dec-13	ALEX122113C.SSF	590454.4951	48381
722138.858	4294280.282	6297	21-Dec-13	ALEX122113C.SSF	590454.499	48382
722138.859	4294280.283	6944	21-Dec-13	ALEX122113C.SSF	590454.502	48383
722138.861	4294280.283	6536	21-Dec-13	ALEX122113C.SSF	590454.5049	48384
722138.862	4294280.284	5796	21-Dec-13	ALEX122113C.SSF	590454.5078	48385
722138.864	4294280.285	6313	21-Dec-13	ALEX122113C.SSF	590454.5112	48386
722138.865	4294280.285	6528	21-Dec-13	ALEX122113C.SSF	590454.5142	48387
722138.869	4294280.287	6222	21-Dec-13	ALEX122113C.SSF	590454.521	48388
722138.87	4294280.287	5753	21-Dec-13	ALEX122113C.SSF	590454.5239	48389
722138.871	4294280.288	5816	21-Dec-13	ALEX122113C.SSF	590454.5269	48390
722138.873	4294280.289	5574	21-Dec-13	ALEX122113C.SSF	590454.5298	48391
722138.875	4294280.29	5992	21-Dec-13	ALEX122113C.SSF	590454.5342	48392
722138.877	4294280.29	6162	21-Dec-13	ALEX122113C.SSF	590454.5371	48393
722138.878	4294280.291	6010	21-Dec-13	ALEX122113C.SSF	590454.541	48394
722138.88	4294280.292	6288	21-Dec-13	ALEX122113C.SSF	590454.5449	48395
722138.882	4294280.293	7122	21-Dec-13	ALEX122113C.SSF	590454.5479	48396
722138.884	4294280.294	7030	21-Dec-13	ALEX122113C.SSF	590454.5518	48397
722138.885	4294280.294	6287	21-Dec-13	ALEX122113C.SSF	590454.5552	48398
722138.887	4294280.295	6191	21-Dec-13	ALEX122113C.SSF	590454.5581	48399
722138.889	4294280.296	5988	21-Dec-13	ALEX122113C.SSF	590454.562	48400
722138.891	4294280.297	6075	21-Dec-13	ALEX122113C.SSF	590454.5659	48401
722138.893	4294280.297	6798	21-Dec-13	ALEX122113C.SSF	590454.5698	48402
722138.894	4294280.298	6799	21-Dec-13	ALEX122113C.SSF	590454.5732	48403
722138.896	4294280.299	6350	21-Dec-13	ALEX122113C.SSF	590454.5771	48404
722246.206	4294313.108	3687	09-Jan-14	ALEX192014A.SSF	401267.405	48405
722246.2	4294313.069	3637	09-Jan-14	ALEX192014A.SSF	401268.464	48406
722246.197	4294313.011	3542	09-Jan-14	ALEX192014A.SSF	401269.374	48407
722246.208	4294312.968	3587	09-Jan-14	ALEX192014A.SSF	401270.475	48408
722246.215	4294312.931	3687	09-Jan-14	ALEX192014A.SSF	401271.408	48409
722246.225	4294312.899	3660	09-Jan-14	ALEX192014A.SSF	401272.422	48410
722246.239	4294312.87	3705	09-Jan-14	ALEX192014A.SSF	401273.389	48411
722246.256	4294312.86	3380	09-Jan-14	ALEX192014A.SSF	401274.484	48412
722246.261	4294312.871	3356	09-Jan-14	ALEX192014A.SSF	401275.414	48413
722246.277	4294312.867	3318	09-Jan-14	ALEX192014A.SSF	401276.437	48414
722246.368	4294312.81	3607	09-Jan-14	ALEX192014A.SSF	401277.34	48415
722246.586	4294312.558	3488	09-Jan-14	ALEX192014A.SSF	401278.437	48416

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722246.711	4294312.248	3522	09-Jan-14	ALEX192014A.SSF	401279.314	48417
722246.652	4294311.991	3553	09-Jan-14	ALEX192014A.SSF	401280.455	48418
722041.559	4294233.844	6046	09-Jan-14	ALEX192014A.SSF	402328.993	48419
722041.591	4294233.865	5936	09-Jan-14	ALEX192014A.SSF	402330.168	48420
722041.607	4294233.87	6144	09-Jan-14	ALEX192014A.SSF	402330.9561	48421
722041.633	4294233.887	6126	09-Jan-14	ALEX192014A.SSF	402332.366	48422
722041.639	4294233.896	6481	09-Jan-14	ALEX192014A.SSF	402333.026	48423
722041.645	4294233.91	6060	09-Jan-14	ALEX192014A.SSF	402334.118	48424
722041.653	4294233.919	5565	09-Jan-14	ALEX192014A.SSF	402335.019	48425
722041.653	4294233.93	6055	09-Jan-14	ALEX192014A.SSF	402336.005	48426
722041.66	4294233.938	6260	09-Jan-14	ALEX192014A.SSF	402337.019	48427
722041.666	4294233.933	5992	09-Jan-14	ALEX192014A.SSF	402338.111	48428
722041.665	4294233.946	6026	09-Jan-14	ALEX192014A.SSF	402339.0081	48429
722041.667	4294233.966	6007	09-Jan-14	ALEX192014A.SSF	402340.031	48430
722041.667	4294233.961	5966	09-Jan-14	ALEX192014A.SSF	402340.994	48431
722041.669	4294233.965	5771	09-Jan-14	ALEX192014A.SSF	402341.962	48432
722041.68	4294233.983	5706	09-Jan-14	ALEX192014A.SSF	402342.89	48433
722041.678	4294233.986	5670	09-Jan-14	ALEX192014A.SSF	402343.975	48434
722041.697	4294233.988	5791	09-Jan-14	ALEX192014A.SSF	402344.934	48435
722041.717	4294233.978	5515	09-Jan-14	ALEX192014A.SSF	402346.014	48436
722041.717	4294233.974	5434	09-Jan-14	ALEX192014A.SSF	402346.964	48437
722041.709	4294233.961	5284	09-Jan-14	ALEX192014A.SSF	402347.9969	48438
722041.699	4294233.962	5806	09-Jan-14	ALEX192014A.SSF	402349.056	48439
722041.687	4294233.977	6093	09-Jan-14	ALEX192014A.SSF	402350.1121	48440
722041.681	4294234.002	5315	09-Jan-14	ALEX192014A.SSF	402350.991	48441
722041.843	4294234.079	5772	09-Jan-14	ALEX192014A.SSF	402352.119	48442
722041.944	4294234.101	5894	09-Jan-14	ALEX192014A.SSF	402353.01	48443
722041.881	4294234.096	5730	09-Jan-14	ALEX192014A.SSF	402354.108	48444
722041.838	4294234.115	5983	09-Jan-14	ALEX192014A.SSF	402354.936	48445
722041.708	4294234.076	5788	09-Jan-14	ALEX192014A.SSF	402356.071	48446
722041.604	4294234.069	5910	09-Jan-14	ALEX192014A.SSF	402357.006	48447
722041.747	4294234.264	6017	09-Jan-14	ALEX192014A.SSF	402358.174	48448
722041.738	4294234.449	5402	09-Jan-14	ALEX192014A.SSF	402358.963	48449
722041.453	4294234.545	5716	09-Jan-14	ALEX192014A.SSF	402360.035	48450
722041.493	4294234.435	5975	09-Jan-14	ALEX192014A.SSF	402361.007	48451
722041.554	4294234.28	5510	09-Jan-14	ALEX192014A.SSF	402362.0129	48452
722041.619	4294234.55	5987	09-Jan-14	ALEX192014A.SSF	402362.955	48453
722041.846	4294234.833	6195	09-Jan-14	ALEX192014A.SSF	402364.057	48454
722041.992	4294234.961	6318	09-Jan-14	ALEX192014A.SSF	402365.011	48455
722042.186	4294235.257	5399	09-Jan-14	ALEX192014A.SSF	402365.9919	48456
722042.549	4294235.891	5280	09-Jan-14	ALEX192014A.SSF	402367.006	48457
722043.23	4294236.832	5055	09-Jan-14	ALEX192014A.SSF	402367.955	48458
722044.009	4294237.941	4560	09-Jan-14	ALEX192014A.SSF	402368.9091	48459
722044.57	4294239.119	4597	09-Jan-14	ALEX192014A.SSF	402370.099	48460
722045.104	4294239.71	4341	09-Jan-14	ALEX192014A.SSF	402370.975	48461
722045.947	4294240.773	4017	09-Jan-14	ALEX192014A.SSF	402372.202	48462
722046.273	4294241.431	3826	09-Jan-14	ALEX192014A.SSF	402372.912	48463

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722046.962	4294242.197	3630	09-Jan-14	ALEX192014A.SSF	402374.0909	48464
722047.518	4294242.75	3721	09-Jan-14	ALEX192014A.SSF	402374.936	48465
722048.052	4294243.461	4020	09-Jan-14	ALEX192014A.SSF	402375.9919	48466
722048.741	4294244.043	4153	09-Jan-14	ALEX192014A.SSF	402376.9301	48467
722049.517	4294244.829	4473	09-Jan-14	ALEX192014A.SSF	402378.068	48468
722049.818	4294245.647	4683	09-Jan-14	ALEX192014A.SSF	402378.8719	48469
722050.444	4294246.98	3887	09-Jan-14	ALEX192014A.SSF	402380.152	48470
722051.04	4294247.539	4276	09-Jan-14	ALEX192014A.SSF	402380.92	48471
722051.78	4294248.352	4362	09-Jan-14	ALEX192014A.SSF	402382.083	48472
722052.25	4294249.182	4419	09-Jan-14	ALEX192014A.SSF	402383.032	48473
722052.855	4294250.051	4300	09-Jan-14	ALEX192014A.SSF	402384.076	48474
722053.356	4294250.709	4144	09-Jan-14	ALEX192014A.SSF	402385.08	48475
722053.616	4294251.249	4236	09-Jan-14	ALEX192014A.SSF	402386.075	48476
722054.189	4294251.86	4505	09-Jan-14	ALEX192014A.SSF	402386.973	48477
722055.267	4294252.888	4724	09-Jan-14	ALEX192014A.SSF	402388.016	48478
722055.94	4294253.916	4960	09-Jan-14	ALEX192014A.SSF	402388.9771	48479
722056.751	4294255.022	5445	09-Jan-14	ALEX192014A.SSF	402390.063	48480
722057.621	4294255.796	5807	09-Jan-14	ALEX192014A.SSF	402390.986	48481
722058.489	4294256.899	5989	09-Jan-14	ALEX192014A.SSF	402392.085	48482
722059.204	4294257.838	5906	09-Jan-14	ALEX192014A.SSF	402392.991	48483
722060.562	4294258.764	5909	09-Jan-14	ALEX192014A.SSF	402394.099	48484
722061.631	4294259.287	5836	09-Jan-14	ALEX192014A.SSF	402394.981	48485
722062.341	4294260.072	5953	09-Jan-14	ALEX192014A.SSF	402396.095	48486
722062.918	4294260.856	6627	09-Jan-14	ALEX192014A.SSF	402396.996	48487
722063.586	4294261.744	6757	09-Jan-14	ALEX192014A.SSF	402398.016	48488
722063.898	4294262.551	6309	09-Jan-14	ALEX192014A.SSF	402398.9611	48489
722064.291	4294263.317	6887	09-Jan-14	ALEX192014A.SSF	402400.061	48490
722064.715	4294264.202	6317	09-Jan-14	ALEX192014A.SSF	402400.9821	48491
722065.33	4294265.475	6979	09-Jan-14	ALEX192014A.SSF	402402.168	48492
722065.863	4294266.058	7149	09-Jan-14	ALEX192014A.SSF	402402.9821	48493
722066.506	4294267.03	7163	09-Jan-14	ALEX192014A.SSF	402404.0699	48494
722067.206	4294267.784	6861	09-Jan-14	ALEX192014A.SSF	402404.979	48495
722068.032	4294267.732	7535	09-Jan-14	ALEX192014A.SSF	402406.073	48496
722068.296	4294267.164	7553	09-Jan-14	ALEX192014A.SSF	402407.0439	48497
722067.889	4294266.311	6718	09-Jan-14	ALEX192014A.SSF	402408.0959	48498
722067.24	4294265.513	5534	09-Jan-14	ALEX192014A.SSF	402408.98	48499
722066.716	4294264.705	5573	09-Jan-14	ALEX192014A.SSF	402410.04	48500
722065.985	4294264.007	6142	09-Jan-14	ALEX192014A.SSF	402410.9821	48501
722065.107	4294263.158	6845	09-Jan-14	ALEX192014A.SSF	402412	48502
722064.69	4294262.445	6091	09-Jan-14	ALEX192014A.SSF	402412.981	48503
722063.922	4294261.654	5569	09-Jan-14	ALEX192014A.SSF	402414.046	48504
722063.174	4294261	6020	09-Jan-14	ALEX192014A.SSF	402414.938	48505
722062.556	4294259.537	6577	09-Jan-14	ALEX192014A.SSF	402416.141	48506
722061.947	4294258.362	7674	09-Jan-14	ALEX192014A.SSF	402417.097	48507
722061.082	4294257.435	7048	09-Jan-14	ALEX192014A.SSF	402418.131	48508
722060.262	4294256.685	5752	09-Jan-14	ALEX192014A.SSF	402418.9659	48509
722059.558	4294255.548	6417	09-Jan-14	ALEX192014A.SSF	402420.089	48510

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722058.872	4294254.57	5676	09-Jan-14	ALEX192014A.SSF	402420.996	48511
722058.02	4294253.649	5743	09-Jan-14	ALEX192014A.SSF	402422.017	48512
722057.519	4294252.488	5157	09-Jan-14	ALEX192014A.SSF	402422.9611	48513
722057.045	4294251.299	4386	09-Jan-14	ALEX192014A.SSF	402424.038	48514
722056.507	4294250.881	4815	09-Jan-14	ALEX192014A.SSF	402424.999	48515
722056.02	4294250.348	4455	09-Jan-14	ALEX192014A.SSF	402425.986	48516
722055.352	4294249.726	4343	09-Jan-14	ALEX192014A.SSF	402426.948	48517
722054.401	4294248.926	4228	09-Jan-14	ALEX192014A.SSF	402428	48518
722053.774	4294247.83	4231	09-Jan-14	ALEX192014A.SSF	402428.886	48519
722053.182	4294246.459	3962	09-Jan-14	ALEX192014A.SSF	402430.01	48520
722052.643	4294245.532	4156	09-Jan-14	ALEX192014A.SSF	402430.916	48521
722051.958	4294244.417	4490	09-Jan-14	ALEX192014A.SSF	402432.017	48522
722051.67	4294243.838	4911	09-Jan-14	ALEX192014A.SSF	402432.918	48523
722051.111	4294243.548	4727	09-Jan-14	ALEX192014A.SSF	402434.0649	48524
722050.425	4294242.989	4684	09-Jan-14	ALEX192014A.SSF	402434.908	48525
722049.343	4294241.707	4749	09-Jan-14	ALEX192014A.SSF	402436.147	48526
722048.656	4294241.042	4404	09-Jan-14	ALEX192014A.SSF	402436.9969	48527
722047.94	4294240.041	4037	09-Jan-14	ALEX192014A.SSF	402438.024	48528
722047.492	4294239.036	3973	09-Jan-14	ALEX192014A.SSF	402439.011	48529
722046.718	4294238.19	4193	09-Jan-14	ALEX192014A.SSF	402440.0601	48530
722045.812	4294237.387	4451	09-Jan-14	ALEX192014A.SSF	402441.011	48531
722045.158	4294236.265	4574	09-Jan-14	ALEX192014A.SSF	402442.0439	48532
722044.355	4294235.17	4875	09-Jan-14	ALEX192014A.SSF	402442.98	48533
722043.371	4294234.317	6094	09-Jan-14	ALEX192014A.SSF	402444.094	48534
722043.166	4294233.829	5435	09-Jan-14	ALEX192014A.SSF	402444.993	48535
722043.565	4294233.296	5885	09-Jan-14	ALEX192014A.SSF	402446.0291	48536
722043.962	4294233.047	5867	09-Jan-14	ALEX192014A.SSF	402446.901	48537
722044.298	4294233.264	6098	09-Jan-14	ALEX192014A.SSF	402448.167	48538
722044.587	4294233.702	5934	09-Jan-14	ALEX192014A.SSF	402448.948	48539
722045.185	4294234.704	6330	09-Jan-14	ALEX192014A.SSF	402450.0699	48540
722046.164	4294236.608	5411	09-Jan-14	ALEX192014A.SSF	402452.056	48542
722047.454	4294238.435	4593	09-Jan-14	ALEX192014A.SSF	402454.073	48544
722048.556	4294240.259	3870	09-Jan-14	ALEX192014A.SSF	402456.017	48546
722049.189	4294240.894	3871	09-Jan-14	ALEX192014A.SSF	402456.821	48547
722049.893	4294241.994	4275	09-Jan-14	ALEX192014A.SSF	402458.024	48548
722050.665	4294242.871	4362	09-Jan-14	ALEX192014A.SSF	402458.941	48549
722051.758	4294243.707	4718	09-Jan-14	ALEX192014A.SSF	402459.989	48550
722052.337	4294244.638	4911	09-Jan-14	ALEX192014A.SSF	402460.937	48551
722052.938	4294245.84	4713	09-Jan-14	ALEX192014A.SSF	402462.105	48552
722053.638	4294246.536	4376	09-Jan-14	ALEX192014A.SSF	402462.916	48553
722054.448	4294247.509	4456	09-Jan-14	ALEX192014A.SSF	402463.906	48554
722054.97	4294248.391	4284	09-Jan-14	ALEX192014A.SSF	402464.861	48555
722055.543	4294249.028	4225	09-Jan-14	ALEX192014A.SSF	402465.9871	48556
722055.94	4294249.662	4115	09-Jan-14	ALEX192014A.SSF	402466.937	48557
722056.24	4294250.618	4317	09-Jan-14	ALEX192014A.SSF	402468.033	48558
722056.717	4294251.17	4768	09-Jan-14	ALEX192014A.SSF	402468.931	48559
722057.416	4294252.064	5352	09-Jan-14	ALEX192014A.SSF	402469.981	48560

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722057.962	4294252.896	5088	09-Jan-14	ALEX192014A.SSF	402470.891	48561
722058.779	4294253.705	4999	09-Jan-14	ALEX192014A.SSF	402471.947	48562
722059.541	4294254.644	5174	09-Jan-14	ALEX192014A.SSF	402472.885	48563
722060.082	4294255.737	5348	09-Jan-14	ALEX192014A.SSF	402473.918	48564
722060.749	4294256.398	5400	09-Jan-14	ALEX192014A.SSF	402474.8409	48565
722061.738	4294257.082	5648	09-Jan-14	ALEX192014A.SSF	402476.042	48566
722062.161	4294257.844	5847	09-Jan-14	ALEX192014A.SSF	402476.874	48567
722062.711	4294258.704	5921	09-Jan-14	ALEX192014A.SSF	402477.907	48568
722063.492	4294259.177	5633	09-Jan-14	ALEX192014A.SSF	402478.9	48569
722064.362	4294259.959	5943	09-Jan-14	ALEX192014A.SSF	402479.923	48570
722065.079	4294260.896	6201	09-Jan-14	ALEX192014A.SSF	402480.882	48571
722065.958	4294261.61	5940	09-Jan-14	ALEX192014A.SSF	402481.937	48572
722066.735	4294262.155	6596	09-Jan-14	ALEX192014A.SSF	402482.887	48573
722067.338	4294262.917	5909	09-Jan-14	ALEX192014A.SSF	402484.05	48574
722067.915	4294263.429	5903	09-Jan-14	ALEX192014A.SSF	402484.902	48575
722068.749	4294264.272	5983	09-Jan-14	ALEX192014A.SSF	402486.043	48576
722069.207	4294264.859	6170	09-Jan-14	ALEX192014A.SSF	402487.005	48577
722069.675	4294264.755	5832	09-Jan-14	ALEX192014A.SSF	402487.983	48578
722070.152	4294264.26	5801	09-Jan-14	ALEX192014A.SSF	402488.8621	48579
722070.337	4294263.438	5828	09-Jan-14	ALEX192014A.SSF	402489.993	48580
722070.012	4294262.519	6203	09-Jan-14	ALEX192014A.SSF	402490.941	48581
722069.528	4294261.674	6001	09-Jan-14	ALEX192014A.SSF	402491.976	48582
722069.012	4294261.163	6150	09-Jan-14	ALEX192014A.SSF	402492.848	48583
722068.496	4294260.23	6397	09-Jan-14	ALEX192014A.SSF	402493.951	48584
722068.19	4294259.405	6309	09-Jan-14	ALEX192014A.SSF	402494.885	48585
722067.443	4294258.691	5297	09-Jan-14	ALEX192014A.SSF	402495.96	48586
722066.62	4294258.029	5499	09-Jan-14	ALEX192014A.SSF	402496.895	48587
722065.838	4294256.97	5718	09-Jan-14	ALEX192014A.SSF	402498.099	48588
722065.26	4294256.344	5504	09-Jan-14	ALEX192014A.SSF	402498.948	48589
722064.431	4294255.688	5233	09-Jan-14	ALEX192014A.SSF	402500.058	48590
722063.7	4294254.808	5276	09-Jan-14	ALEX192014A.SSF	402501.0179	48591
722063.179	4294253.714	5075	09-Jan-14	ALEX192014A.SSF	402502.053	48592
722062.57	4294252.802	5622	09-Jan-14	ALEX192014A.SSF	402502.9871	48593
722061.745	4294251.893	5007	09-Jan-14	ALEX192014A.SSF	402504.007	48594
722061.292	4294251.082	4796	09-Jan-14	ALEX192014A.SSF	402504.9919	48595
722060.648	4294250.274	4963	09-Jan-14	ALEX192014A.SSF	402506.031	48596
722059.832	4294249.627	4569	09-Jan-14	ALEX192014A.SSF	402506.9821	48597
722059.054	4294248.76	4647	09-Jan-14	ALEX192014A.SSF	402508.054	48598
722058.23	4294247.917	4519	09-Jan-14	ALEX192014A.SSF	402509.007	48599
722057.457	4294246.955	4499	09-Jan-14	ALEX192014A.SSF	402510.052	48600
722057.06	4294246.001	4496	09-Jan-14	ALEX192014A.SSF	402510.856	48601
722056.34	4294244.662	4239	09-Jan-14	ALEX192014A.SSF	402512.048	48602
722055.582	4294243.932	4057	09-Jan-14	ALEX192014A.SSF	402512.871	48603
722054.608	4294243.088	4202	09-Jan-14	ALEX192014A.SSF	402513.881	48604
722053.918	4294242.237	4201	09-Jan-14	ALEX192014A.SSF	402514.8571	48605
722052.866	4294241.066	4553	09-Jan-14	ALEX192014A.SSF	402516.108	48606
722052.066	4294240.417	4173	09-Jan-14	ALEX192014A.SSF	402516.932	48607

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722051.159	4294239.189	4057	09-Jan-14	ALEX192014A.SSF	402518.144	48608
722050.678	4294238.418	3991	09-Jan-14	ALEX192014A.SSF	402518.889	48609
722049.704	4294237.441	4114	09-Jan-14	ALEX192014A.SSF	402519.963	48610
722048.944	4294236.737	4421	09-Jan-14	ALEX192014A.SSF	402520.813	48611
722048.304	4294235.705	4594	09-Jan-14	ALEX192014A.SSF	402521.905	48612
722047.65	4294234.872	4452	09-Jan-14	ALEX192014A.SSF	402522.825	48613
722046.621	4294234.049	4837	09-Jan-14	ALEX192014A.SSF	402524.045	48614
722046.096	4294233.327	5623	09-Jan-14	ALEX192014A.SSF	402524.887	48615
722045.708	4294232.335	6143	09-Jan-14	ALEX192014A.SSF	402525.932	48616
722045.528	4294231.675	5843	09-Jan-14	ALEX192014A.SSF	402526.88	48617
722045.862	4294231.152	7096	09-Jan-14	ALEX192014A.SSF	402527.968	48618
722046.628	4294230.771	6394	09-Jan-14	ALEX192014A.SSF	402528.926	48619
722047.232	4294230.696	5922	09-Jan-14	ALEX192014A.SSF	402529.946	48620
722047.581	4294231.392	6091	09-Jan-14	ALEX192014A.SSF	402530.8831	48621
722048.012	4294232.578	6952	09-Jan-14	ALEX192014A.SSF	402532.05	48622
722048.515	4294233.237	5878	09-Jan-14	ALEX192014A.SSF	402532.864	48623
722049.266	4294234.079	5136	09-Jan-14	ALEX192014A.SSF	402534.043	48624
722049.594	4294234.727	4794	09-Jan-14	ALEX192014A.SSF	402534.875	48625
722050.093	4294235.736	4796	09-Jan-14	ALEX192014A.SSF	402536.108	48626
722050.67	4294236.374	4453	09-Jan-14	ALEX192014A.SSF	402536.8719	48627
722051.57	4294237.37	4147	09-Jan-14	ALEX192014A.SSF	402538.01	48628
722052.05	4294238.302	3937	09-Jan-14	ALEX192014A.SSF	402538.918	48629
722052.57	4294239.331	3841	09-Jan-14	ALEX192014A.SSF	402539.941	48630
722053.408	4294240.206	3927	09-Jan-14	ALEX192014A.SSF	402540.882	48631
722054.332	4294241.347	4689	09-Jan-14	ALEX192014A.SSF	402542.043	48632
722054.811	4294242.279	5158	09-Jan-14	ALEX192014A.SSF	402542.979	48633
722055.659	4294243.095	5166	09-Jan-14	ALEX192014A.SSF	402544.043	48634
722056.481	4294243.69	4998	09-Jan-14	ALEX192014A.SSF	402545.007	48635
722056.988	4294244.66	4311	09-Jan-14	ALEX192014A.SSF	402545.999	48636
722058.064	4294246.469	4590	09-Jan-14	ALEX192014A.SSF	402548.077	48638
722058.77	4294247.219	4644	09-Jan-14	ALEX192014A.SSF	402548.9399	48639
722059.835	4294248.533	4195	09-Jan-14	ALEX192014A.SSF	402550.085	48640
722060.397	4294249.325	4489	09-Jan-14	ALEX192014A.SSF	402550.983	48641
722060.729	4294249.69	4468	09-Jan-14	ALEX192014A.SSF	402552	48642
722061.255	4294249.953	4988	09-Jan-14	ALEX192014A.SSF	402552.89	48643
722061.912	4294250.871	4913	09-Jan-14	ALEX192014A.SSF	402553.9449	48644
722062.42	4294251.979	4743	09-Jan-14	ALEX192014A.SSF	402554.995	48645
722062.986	4294252.683	4693	09-Jan-14	ALEX192014A.SSF	402555.985	48646
722063.616	4294253.58	5077	09-Jan-14	ALEX192014A.SSF	402556.856	48647
722064.254	4294254.747	5173	09-Jan-14	ALEX192014A.SSF	402558.03	48648
722064.774	4294255.306	5400	09-Jan-14	ALEX192014A.SSF	402558.979	48649
722065.494	4294256.321	5392	09-Jan-14	ALEX192014A.SSF	402560.036	48650
722066.072	4294257.32	5493	09-Jan-14	ALEX192014A.SSF	402561.011	48651
722066.773	4294257.917	6015	09-Jan-14	ALEX192014A.SSF	402562.014	48652
722067.546	4294258.454	7355	09-Jan-14	ALEX192014A.SSF	402562.8719	48653
722068.556	4294259.315	6579	09-Jan-14	ALEX192014A.SSF	402564.201	48654
722069.088	4294259.771	6624	09-Jan-14	ALEX192014A.SSF	402564.896	48655

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722069.943	4294260.652	7326	09-Jan-14	ALEX192014A.SSF	402565.99	48656
722070.351	4294261.369	6871	09-Jan-14	ALEX192014A.SSF	402566.829	48657
722070.891	4294262.009	6037	09-Jan-14	ALEX192014A.SSF	402567.9561	48658
722071.462	4294262.498	6261	09-Jan-14	ALEX192014A.SSF	402568.844	48659
722071.82	4294263.08	6155	09-Jan-14	ALEX192014A.SSF	402570.105	48660
722071.786	4294263.135	6248	09-Jan-14	ALEX192014A.SSF	402570.944	48661
722071.68	4294262.903	5672	09-Jan-14	ALEX192014A.SSF	402572.127	48662
722071.608	4294262.743	5298	09-Jan-14	ALEX192014A.SSF	402572.949	48663
722071.561	4294262.596	5252	09-Jan-14	ALEX192014A.SSF	402573.958	48664
722071.549	4294262.459	5857	09-Jan-14	ALEX192014A.SSF	402574.954	48665
722071.479	4294262.33	6009	09-Jan-14	ALEX192014A.SSF	402575.931	48666
722071.474	4294262.308	5773	09-Jan-14	ALEX192014A.SSF	402576.947	48667
722071.785	4294261.873	6082	09-Jan-14	ALEX192014A.SSF	402577.937	48668
722072.52	4294261.099	6440	09-Jan-14	ALEX192014A.SSF	402578.936	48669
722073.109	4294260.435	6240	09-Jan-14	ALEX192014A.SSF	402579.994	48670
722072.87	4294259.869	6960	09-Jan-14	ALEX192014A.SSF	402580.855	48671
722072.172	4294259.02	6720	09-Jan-14	ALEX192014A.SSF	402581.877	48672
722071.631	4294258.37	6330	09-Jan-14	ALEX192014A.SSF	402582.785	48673
722070.795	4294257.795	5298	09-Jan-14	ALEX192014A.SSF	402583.899	48674
722069.902	4294257.363	5583	09-Jan-14	ALEX192014A.SSF	402584.855	48675
722068.962	4294256.229	5443	09-Jan-14	ALEX192014A.SSF	402585.969	48676
722068.429	4294255.207	5469	09-Jan-14	ALEX192014A.SSF	402586.8781	48677
722067.627	4294254.287	4883	09-Jan-14	ALEX192014A.SSF	402587.974	48678
722066.795	4294253.713	4569	09-Jan-14	ALEX192014A.SSF	402588.8879	48679
722065.909	4294252.571	4738	09-Jan-14	ALEX192014A.SSF	402589.999	48680
722065.47	4294251.57	5252	09-Jan-14	ALEX192014A.SSF	402590.801	48681
722064.716	4294250.257	4979	09-Jan-14	ALEX192014A.SSF	402591.932	48682
722063.997	4294249.419	5156	09-Jan-14	ALEX192014A.SSF	402592.8	48683
722063.301	4294248.394	5367	09-Jan-14	ALEX192014A.SSF	402593.891	48684
722062.698	4294247.493	4849	09-Jan-14	ALEX192014A.SSF	402594.821	48685
722061.734	4294246.437	4977	09-Jan-14	ALEX192014A.SSF	402595.941	48686
722060.837	4294245.765	4780	09-Jan-14	ALEX192014A.SSF	402596.8781	48687
722060.115	4294244.687	4428	09-Jan-14	ALEX192014A.SSF	402597.95	48688
722059.563	4294243.565	4606	09-Jan-14	ALEX192014A.SSF	402598.884	48689
722058.606	4294242.647	4031	09-Jan-14	ALEX192014A.SSF	402599.908	48690
722057.615	4294242.025	4337	09-Jan-14	ALEX192014A.SSF	402600.775	48691
722056.691	4294240.91	4382	09-Jan-14	ALEX192014A.SSF	402601.8521	48692
722056.199	4294239.945	4355	09-Jan-14	ALEX192014A.SSF	402602.787	48693
722055.477	4294239.123	4452	09-Jan-14	ALEX192014A.SSF	402603.849	48694
722054.563	4294238.337	4057	09-Jan-14	ALEX192014A.SSF	402604.856	48695
722053.805	4294237.202	3939	09-Jan-14	ALEX192014A.SSF	402605.953	48696
722053.217	4294236.268	3935	09-Jan-14	ALEX192014A.SSF	402606.863	48697
722052.292	4294235.246	4080	09-Jan-14	ALEX192014A.SSF	402607.955	48698
722051.556	4294234.496	4635	09-Jan-14	ALEX192014A.SSF	402608.848	48699
722050.962	4294233.351	4482	09-Jan-14	ALEX192014A.SSF	402609.949	48700
722050.413	4294232.36	5266	09-Jan-14	ALEX192014A.SSF	402610.86	48701
722049.587	4294231.554	5887	09-Jan-14	ALEX192014A.SSF	402611.86	48702

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722048.794	4294231.078	5966	09-Jan-14	ALEX192014A.SSF	402612.7889	48703
722048.357	4294230.364	6236	09-Jan-14	ALEX192014A.SSF	402613.918	48704
722048.129	4294229.865	6073	09-Jan-14	ALEX192014A.SSF	402614.8621	48705
722047.935	4294229.6	6348	09-Jan-14	ALEX192014A.SSF	402615.9561	48706
722048.222	4294229.409	7317	09-Jan-14	ALEX192014A.SSF	402616.917	48707
722049.039	4294229.026	6869	09-Jan-14	ALEX192014A.SSF	402617.921	48708
722049.572	4294228.715	6967	09-Jan-14	ALEX192014A.SSF	402618.859	48709
722049.784	4294228.965	6991	09-Jan-14	ALEX192014A.SSF	402619.979	48710
722050.117	4294229.639	7267	09-Jan-14	ALEX192014A.SSF	402620.869	48711
722050.83	4294230.482	7247	09-Jan-14	ALEX192014A.SSF	402621.87	48712
722051.449	4294231.34	6731	09-Jan-14	ALEX192014A.SSF	402622.795	48713
722051.892	4294232.272	6183	09-Jan-14	ALEX192014A.SSF	402623.917	48714
722052.304	4294232.943	5213	09-Jan-14	ALEX192014A.SSF	402624.7889	48715
722053.018	4294234.012	4267	09-Jan-14	ALEX192014A.SSF	402625.959	48716
722053.456	4294235.023	4072	09-Jan-14	ALEX192014A.SSF	402626.913	48717
722054.01	4294236.114	4085	09-Jan-14	ALEX192014A.SSF	402627.915	48718
722054.815	4294236.943	3838	09-Jan-14	ALEX192014A.SSF	402628.913	48719
722055.657	4294237.904	4105	09-Jan-14	ALEX192014A.SSF	402629.923	48720
722056.284	4294238.885	4115	09-Jan-14	ALEX192014A.SSF	402630.8621	48721
722057.218	4294239.965	4040	09-Jan-14	ALEX192014A.SSF	402631.98	48722
722058.074	4294240.798	3945	09-Jan-14	ALEX192014A.SSF	402632.8781	48723
722058.88	4294242.062	3950	09-Jan-14	ALEX192014A.SSF	402633.9771	48724
722059.368	4294243.13	3973	09-Jan-14	ALEX192014A.SSF	402634.8781	48725
722060.148	4294244.224	4688	09-Jan-14	ALEX192014A.SSF	402635.942	48726
722061.103	4294245.119	4602	09-Jan-14	ALEX192014A.SSF	402636.9041	48727
722062.046	4294246.248	4718	09-Jan-14	ALEX192014A.SSF	402637.907	48728
722062.762	4294247.461	4596	09-Jan-14	ALEX192014A.SSF	402638.907	48729
722063.42	4294248.338	4835	09-Jan-14	ALEX192014A.SSF	402639.934	48730
722064.078	4294248.96	4737	09-Jan-14	ALEX192014A.SSF	402640.837	48731
722064.834	4294249.931	4802	09-Jan-14	ALEX192014A.SSF	402641.946	48732
722065.379	4294250.832	5153	09-Jan-14	ALEX192014A.SSF	402642.848	48733
722066.12	4294251.826	5359	09-Jan-14	ALEX192014A.SSF	402643.968	48734
722066.918	4294252.528	5002	09-Jan-14	ALEX192014A.SSF	402644.9041	48735
722067.823	4294253.499	4898	09-Jan-14	ALEX192014A.SSF	402645.942	48736
722068.505	4294254.563	5103	09-Jan-14	ALEX192014A.SSF	402646.868	48737
722069.374	4294255.703	4903	09-Jan-14	ALEX192014A.SSF	402647.9969	48738
722070.316	4294256.345	4565	09-Jan-14	ALEX192014A.SSF	402648.941	48739
722071.163	4294257.083	4728	09-Jan-14	ALEX192014A.SSF	402649.941	48740
722071.653	4294257.834	4947	09-Jan-14	ALEX192014A.SSF	402650.858	48741
722072.379	4294258.5	5797	09-Jan-14	ALEX192014A.SSF	402651.99	48742
722073.09	4294259.048	6253	09-Jan-14	ALEX192014A.SSF	402652.921	48743
722073.691	4294259.281	5885	09-Jan-14	ALEX192014A.SSF	402653.962	48744
722074.008	4294258.85	5800	09-Jan-14	ALEX192014A.SSF	402654.925	48745
722074.338	4294257.909	5790	09-Jan-14	ALEX192014A.SSF	402655.9611	48746
722073.944	4294257.16	5846	09-Jan-14	ALEX192014A.SSF	402656.859	48747
722073.299	4294256.307	5501	09-Jan-14	ALEX192014A.SSF	402657.942	48748
722072.914	4294255.556	5389	09-Jan-14	ALEX192014A.SSF	402658.84	48749

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722072.1	4294254.733	4906	09-Jan-14	ALEX192014A.SSF	402659.9561	48750
722071.437	4294254.188	4867	09-Jan-14	ALEX192014A.SSF	402660.813	48751
722070.929	4294253.372	4665	09-Jan-14	ALEX192014A.SSF	402661.8831	48752
722070.333	4294252.537	4709	09-Jan-14	ALEX192014A.SSF	402662.885	48753
722069.466	4294251.736	4824	09-Jan-14	ALEX192014A.SSF	402663.916	48754
722068.752	4294250.93	4693	09-Jan-14	ALEX192014A.SSF	402664.776	48755
722068.074	4294249.747	4717	09-Jan-14	ALEX192014A.SSF	402665.89	48756
722067.484	4294248.803	5211	09-Jan-14	ALEX192014A.SSF	402666.8149	48757
722066.566	4294247.848	5166	09-Jan-14	ALEX192014A.SSF	402667.941	48758
722065.791	4294247	4983	09-Jan-14	ALEX192014A.SSF	402668.944	48759
722065.249	4294246.005	4963	09-Jan-14	ALEX192014A.SSF	402669.988	48760
722064.612	4294245.222	4756	09-Jan-14	ALEX192014A.SSF	402670.9399	48761
722063.784	4294244.647	4715	09-Jan-14	ALEX192014A.SSF	402671.9351	48762
722063.092	4294243.931	4812	09-Jan-14	ALEX192014A.SSF	402672.797	48763
722062.439	4294242.81	4792	09-Jan-14	ALEX192014A.SSF	402673.881	48764
722061.817	4294241.818	4570	09-Jan-14	ALEX192014A.SSF	402674.849	48765
722061.002	4294240.947	4506	09-Jan-14	ALEX192014A.SSF	402675.858	48766
722060.404	4294240.011	4447	09-Jan-14	ALEX192014A.SSF	402676.799	48767
722059.882	4294238.887	4444	09-Jan-14	ALEX192014A.SSF	402677.858	48768
722059.098	4294237.988	4337	09-Jan-14	ALEX192014A.SSF	402678.787	48769
722058.014	4294237.107	4239	09-Jan-14	ALEX192014A.SSF	402679.8571	48770
722057.269	4294236.07	4029	09-Jan-14	ALEX192014A.SSF	402680.7939	48771
722056.587	4294234.772	3808	09-Jan-14	ALEX192014A.SSF	402681.8719	48772
722055.819	4294233.905	3544	09-Jan-14	ALEX192014A.SSF	402682.8101	48773
722054.665	4294233.047	3725	09-Jan-14	ALEX192014A.SSF	402683.936	48774
722054.088	4294232.116	4090	09-Jan-14	ALEX192014A.SSF	402684.786	48775
722053.497	4294230.973	4558	09-Jan-14	ALEX192014A.SSF	402685.845	48776
722052.864	4294230.303	5489	09-Jan-14	ALEX192014A.SSF	402686.757	48777
722052.018	4294229.617	5930	09-Jan-14	ALEX192014A.SSF	402687.875	48778
722051.566	4294228.894	6558	09-Jan-14	ALEX192014A.SSF	402688.842	48779
722051.088	4294228.087	7099	09-Jan-14	ALEX192014A.SSF	402689.861	48780
722050.702	4294227.336	6485	09-Jan-14	ALEX192014A.SSF	402690.844	48781
722050.735	4294227.154	7921	09-Jan-14	ALEX192014A.SSF	402691.9611	48782
722051.14	4294227.329	7770	09-Jan-14	ALEX192014A.SSF	402692.911	48783
722051.557	4294227.571	7132	09-Jan-14	ALEX192014A.SSF	402693.931	48784
722051.882	4294228.209	7033	09-Jan-14	ALEX192014A.SSF	402694.844	48785
722052.188	4294229.117	7158	09-Jan-14	ALEX192014A.SSF	402695.937	48786
722052.569	4294229.6	7579	09-Jan-14	ALEX192014A.SSF	402696.851	48787
722053.261	4294230.125	6844	09-Jan-14	ALEX192014A.SSF	402697.959	48788
722053.879	4294230.79	6151	09-Jan-14	ALEX192014A.SSF	402698.8621	48789
722054.462	4294231.765	5321	09-Jan-14	ALEX192014A.SSF	402699.858	48790
722055.07	4294232.638	4801	09-Jan-14	ALEX192014A.SSF	402700.849	48791
722055.787	4294233.333	4056	09-Jan-14	ALEX192014A.SSF	402701.896	48792
722056.367	4294234.206	4040	09-Jan-14	ALEX192014A.SSF	402702.891	48793
722056.924	4294235.239	3825	09-Jan-14	ALEX192014A.SSF	402703.916	48794
722057.685	4294236.096	3819	09-Jan-14	ALEX192014A.SSF	402704.835	48795
722058.684	4294236.934	3639	09-Jan-14	ALEX192014A.SSF	402705.868	48796

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722059.435	4294237.827	3770	09-Jan-14	ALEX192014A.SSF	402706.788	48797
722060.124	4294239.109	4411	09-Jan-14	ALEX192014A.SSF	402707.902	48798
722060.865	4294240.147	4469	09-Jan-14	ALEX192014A.SSF	402708.864	48799
722061.843	4294241.063	4628	09-Jan-14	ALEX192014A.SSF	402709.908	48800
722062.514	4294241.993	4831	09-Jan-14	ALEX192014A.SSF	402710.819	48801
722063.065	4294243.219	4952	09-Jan-14	ALEX192014A.SSF	402711.912	48802
722063.712	4294244.115	4886	09-Jan-14	ALEX192014A.SSF	402712.88	48803
722064.675	4294244.749	4563	09-Jan-14	ALEX192014A.SSF	402713.9139	48804
722065.471	4294245.406	4704	09-Jan-14	ALEX192014A.SSF	402714.85	48805
722066.1	4294246.448	4948	09-Jan-14	ALEX192014A.SSF	402715.856	48806
722066.705	4294247.365	4951	09-Jan-14	ALEX192014A.SSF	402716.774	48807
722067.727	4294248.485	4967	09-Jan-14	ALEX192014A.SSF	402717.921	48808
722068.546	4294249.436	5441	09-Jan-14	ALEX192014A.SSF	402718.821	48809
722069.394	4294250.751	5221	09-Jan-14	ALEX192014A.SSF	402719.8621	48810
722069.994	4294251.762	5269	09-Jan-14	ALEX192014A.SSF	402720.76	48811
722070.958	4294252.738	5049	09-Jan-14	ALEX192014A.SSF	402721.901	48812
722071.861	4294253.459	4730	09-Jan-14	ALEX192014A.SSF	402722.7371	48813
722072.872	4294254.644	4475	09-Jan-14	ALEX192014A.SSF	402723.858	48814
722073.352	4294255.629	4370	09-Jan-14	ALEX192014A.SSF	402724.7581	48815
722074.006	4294256.437	4723	09-Jan-14	ALEX192014A.SSF	402725.873	48816
722074.498	4294256.734	4734	09-Jan-14	ALEX192014A.SSF	402726.7419	48817
722075.036	4294256.879	4395	09-Jan-14	ALEX192014A.SSF	402727.859	48818
722075.516	4294256.657	4602	09-Jan-14	ALEX192014A.SSF	402728.809	48819
722075.737	4294256.049	4268	09-Jan-14	ALEX192014A.SSF	402729.797	48820
722075.39	4294255.396	4381	09-Jan-14	ALEX192014A.SSF	402730.798	48821
722074.571	4294254.814	4474	09-Jan-14	ALEX192014A.SSF	402731.874	48822
722073.877	4294253.943	4174	09-Jan-14	ALEX192014A.SSF	402732.7791	48823
722073.288	4294252.612	4635	09-Jan-14	ALEX192014A.SSF	402733.873	48824
722072.778	4294251.609	4707	09-Jan-14	ALEX192014A.SSF	402734.811	48825
722070.714	4294249.595	4660	09-Jan-14	ALEX192014A.SSF	402736.8459	48827
722069.933	4294248.278	4308	09-Jan-14	ALEX192014A.SSF	402737.918	48828
722069.479	4294247.179	5018	09-Jan-14	ALEX192014A.SSF	402738.811	48829
722068.604	4294246.047	5305	09-Jan-14	ALEX192014A.SSF	402739.918	48830
722067.687	4294245.154	5317	09-Jan-14	ALEX192014A.SSF	402740.838	48831
722066.877	4294243.892	4715	09-Jan-14	ALEX192014A.SSF	402741.942	48832
722066.426	4294242.907	4835	09-Jan-14	ALEX192014A.SSF	402742.854	48833
722065.655	4294242.005	5232	09-Jan-14	ALEX192014A.SSF	402743.924	48834
722064.803	4294241.373	5365	09-Jan-14	ALEX192014A.SSF	402744.823	48835
722064.084	4294240.464	4990	09-Jan-14	ALEX192014A.SSF	402745.835	48836
722063.611	4294239.339	4847	09-Jan-14	ALEX192014A.SSF	402746.828	48837
722062.754	4294238.233	4819	09-Jan-14	ALEX192014A.SSF	402747.838	48838
722061.705	4294237.425	4765	09-Jan-14	ALEX192014A.SSF	402748.756	48839
722060.7	4294236.234	4563	09-Jan-14	ALEX192014A.SSF	402749.8831	48840
722060.179	4294235.175	4411	09-Jan-14	ALEX192014A.SSF	402750.849	48841
722059.501	4294234.078	4484	09-Jan-14	ALEX192014A.SSF	402751.9611	48842
722058.69	4294233.184	4172	09-Jan-14	ALEX192014A.SSF	402752.884	48843
722057.796	4294232.262	3632	09-Jan-14	ALEX192014A.SSF	402753.885	48844

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722057.152	4294231.11	4006	09-Jan-14	ALEX192014A.SSF	402754.873	48845
722056.533	4294229.865	4498	09-Jan-14	ALEX192014A.SSF	402755.934	48846
722055.881	4294229.001	5118	09-Jan-14	ALEX192014A.SSF	402756.839	48847
722055.075	4294228.199	6134	09-Jan-14	ALEX192014A.SSF	402757.851	48848
722054.392	4294227.47	6395	09-Jan-14	ALEX192014A.SSF	402758.849	48849
722053.871	4294226.634	6668	09-Jan-14	ALEX192014A.SSF	402759.894	48850
722053.496	4294226.028	7187	09-Jan-14	ALEX192014A.SSF	402760.86	48851
722053.305	4294225.549	7376	09-Jan-14	ALEX192014A.SSF	402761.881	48852
722053.52	4294225.362	6344	09-Jan-14	ALEX192014A.SSF	402762.79	48853
722054.249	4294225.493	6656	09-Jan-14	ALEX192014A.SSF	402763.929	48854
722055.071	4294226.025	8024	09-Jan-14	ALEX192014A.SSF	402764.847	48855
722055.857	4294226.865	7346	09-Jan-14	ALEX192014A.SSF	402765.87	48856
722056.305	4294227.792	6426	09-Jan-14	ALEX192014A.SSF	402766.759	48857
722056.587	4294228.809	6406	09-Jan-14	ALEX192014A.SSF	402767.809	48858
722057.059	4294229.643	6041	09-Jan-14	ALEX192014A.SSF	402768.822	48859
722057.684	4294230.409	5723	09-Jan-14	ALEX192014A.SSF	402769.832	48860
722058.149	4294231.307	5109	09-Jan-14	ALEX192014A.SSF	402770.76	48861
722058.632	4294232.437	4516	09-Jan-14	ALEX192014A.SSF	402771.822	48862
722059.399	4294233.325	4333	09-Jan-14	ALEX192014A.SSF	402772.764	48863
722060.437	4294234.296	4147	09-Jan-14	ALEX192014A.SSF	402773.8831	48864
722061.027	4294235.202	3982	09-Jan-14	ALEX192014A.SSF	402774.7729	48865
722061.594	4294236.359	4303	09-Jan-14	ALEX192014A.SSF	402775.868	48866
722062.339	4294237.306	4866	09-Jan-14	ALEX192014A.SSF	402776.818	48867
722063.482	4294238.441	5129	09-Jan-14	ALEX192014A.SSF	402777.926	48868
722064.202	4294239.549	5098	09-Jan-14	ALEX192014A.SSF	402778.8521	48869
722064.694	4294240.786	4877	09-Jan-14	ALEX192014A.SSF	402779.855	48870
722065.344	4294241.837	4311	09-Jan-14	ALEX192014A.SSF	402780.8311	48871
722066.276	4294242.813	4210	09-Jan-14	ALEX192014A.SSF	402781.8361	48872
722067.063	4294243.746	4708	09-Jan-14	ALEX192014A.SSF	402782.775	48873
722067.768	4294244.792	4718	09-Jan-14	ALEX192014A.SSF	402783.88	48874
722068.417	4294245.621	4574	09-Jan-14	ALEX192014A.SSF	402784.832	48875
722069.562	4294246.535	5017	09-Jan-14	ALEX192014A.SSF	402785.899	48876
722070.494	4294247.273	5410	09-Jan-14	ALEX192014A.SSF	402786.726	48877
722071.457	4294248.593	5113	09-Jan-14	ALEX192014A.SSF	402787.869	48878
722071.959	4294249.605	5006	09-Jan-14	ALEX192014A.SSF	402788.7791	48879
722072.708	4294250.506	4488	09-Jan-14	ALEX192014A.SSF	402789.89	48880
722073.442	4294251.137	4924	09-Jan-14	ALEX192014A.SSF	402790.819	48881
722074.158	4294252.101	5117	09-Jan-14	ALEX192014A.SSF	402791.921	48882
722074.577	4294252.93	4746	09-Jan-14	ALEX192014A.SSF	402792.834	48883
722075.235	4294253.729	4949	09-Jan-14	ALEX192014A.SSF	402793.865	48884
722075.979	4294254.359	4591	09-Jan-14	ALEX192014A.SSF	402794.783	48885
722076.836	4294254.689	4772	09-Jan-14	ALEX192014A.SSF	402795.844	48886
722077.438	4294254.224	4859	09-Jan-14	ALEX192014A.SSF	402796.85	48887
722077.73	4294253.142	4638	09-Jan-14	ALEX192014A.SSF	402797.924	48888
722077.478	4294252.265	4409	09-Jan-14	ALEX192014A.SSF	402798.801	48889
722076.823	4294251.483	5150	09-Jan-14	ALEX192014A.SSF	402799.849	48890
722076.019	4294250.855	5064	09-Jan-14	ALEX192014A.SSF	402800.7581	48891

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722074.981	4294249.872	5226	09-Jan-14	ALEX192014A.SSF	402801.9	48892
722074.353	4294248.846	5029	09-Jan-14	ALEX192014A.SSF	402802.788	48893
722073.607	4294247.626	5017	09-Jan-14	ALEX192014A.SSF	402803.899	48894
722072.777	4294246.786	5132	09-Jan-14	ALEX192014A.SSF	402804.786	48895
722071.609	4294245.889	5039	09-Jan-14	ALEX192014A.SSF	402805.936	48896
722070.889	4294244.867	4972	09-Jan-14	ALEX192014A.SSF	402806.87	48897
722070.263	4294243.613	4799	09-Jan-14	ALEX192014A.SSF	402807.932	48898
722069.615	4294242.702	4604	09-Jan-14	ALEX192014A.SSF	402808.858	48899
722068.74	4294241.813	4090	09-Jan-14	ALEX192014A.SSF	402809.933	48900
722068.018	4294240.961	4595	09-Jan-14	ALEX192014A.SSF	402810.88	48901
722067.421	4294239.68	4692	09-Jan-14	ALEX192014A.SSF	402811.9399	48902
722066.785	4294238.544	4567	09-Jan-14	ALEX192014A.SSF	402812.88	48903
722065.755	4294237.362	4804	09-Jan-14	ALEX192014A.SSF	402813.944	48904
722065.037	4294236.603	4982	09-Jan-14	ALEX192014A.SSF	402814.847	48905
722064.605	4294235.864	4887	09-Jan-14	ALEX192014A.SSF	402815.922	48906
722064.214	4294235.357	4811	09-Jan-14	ALEX192014A.SSF	402816.765	48907
722063.415	4294234.672	4191	09-Jan-14	ALEX192014A.SSF	402817.8669	48908
722062.691	4294233.862	3914	09-Jan-14	ALEX192014A.SSF	402818.793	48909
722062.093	4294232.621	3911	09-Jan-14	ALEX192014A.SSF	402819.8521	48910
722061.595	4294231.559	3876	09-Jan-14	ALEX192014A.SSF	402820.745	48911
722060.773	4294230.451	3755	09-Jan-14	ALEX192014A.SSF	402821.795	48912
722059.91	4294229.504	4381	09-Jan-14	ALEX192014A.SSF	402822.749	48913
722059.161	4294228.148	5434	09-Jan-14	ALEX192014A.SSF	402823.894	48914
722058.697	4294227.186	6191	09-Jan-14	ALEX192014A.SSF	402824.729	48915
722057.9	4294226.181	5966	09-Jan-14	ALEX192014A.SSF	402825.829	48916
722057.14	4294225.479	5957	09-Jan-14	ALEX192014A.SSF	402826.717	48917
722056.625	4294224.603	6134	09-Jan-14	ALEX192014A.SSF	402827.782	48918
722056.414	4294223.818	6080	09-Jan-14	ALEX192014A.SSF	402828.748	48919
722056.269	4294223.15	7040	09-Jan-14	ALEX192014A.SSF	402829.7841	48920
722056.502	4294223	8060	09-Jan-14	ALEX192014A.SSF	402830.827	48921
722057.158	4294223.368	7115	09-Jan-14	ALEX192014A.SSF	402831.915	48922
722057.908	4294223.806	7028	09-Jan-14	ALEX192014A.SSF	402832.828	48923
722058.674	4294224.291	7487	09-Jan-14	ALEX192014A.SSF	402833.924	48924
722058.918	4294224.853	7541	09-Jan-14	ALEX192014A.SSF	402834.839	48925
722059.107	4294225.513	6715	09-Jan-14	ALEX192014A.SSF	402835.833	48926
722059.653	4294226.268	5728	09-Jan-14	ALEX192014A.SSF	402836.812	48927
722060.481	4294227.267	5793	09-Jan-14	ALEX192014A.SSF	402837.905	48928
722061.116	4294228.253	5508	09-Jan-14	ALEX192014A.SSF	402838.776	48929
722061.908	4294229.586	5213	09-Jan-14	ALEX192014A.SSF	402839.9041	48930
722062.751	4294230.602	4882	09-Jan-14	ALEX192014A.SSF	402840.842	48931
722063.666	4294231.504	4734	09-Jan-14	ALEX192014A.SSF	402841.845	48932
722064.298	4294232.552	4230	09-Jan-14	ALEX192014A.SSF	402842.803	48933
722064.814	4294233.878	4044	09-Jan-14	ALEX192014A.SSF	402843.921	48934
722065.43	4294234.724	4517	09-Jan-14	ALEX192014A.SSF	402844.8101	48935
722066.338	4294235.776	4678	09-Jan-14	ALEX192014A.SSF	402845.951	48936
722066.892	4294236.768	4611	09-Jan-14	ALEX192014A.SSF	402846.845	48937
722067.449	4294237.958	4746	09-Jan-14	ALEX192014A.SSF	402847.932	48938

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722068.157	4294238.783	4410	09-Jan-14	ALEX192014A.SSF	402848.814	48939
722069.25	4294239.722	4550	09-Jan-14	ALEX192014A.SSF	402849.989	48940
722069.725	4294240.691	5057	09-Jan-14	ALEX192014A.SSF	402850.848	48941
722070.311	4294241.763	5049	09-Jan-14	ALEX192014A.SSF	402851.942	48942
722070.881	4294242.236	4445	09-Jan-14	ALEX192014A.SSF	402852.851	48943
722071.282	4294242.914	4600	09-Jan-14	ALEX192014A.SSF	402853.873	48944
722071.603	4294243.66	4410	09-Jan-14	ALEX192014A.SSF	402854.772	48945
722072.457	4294244.571	5308	09-Jan-14	ALEX192014A.SSF	402855.838	48946
722073.432	4294245.34	4996	09-Jan-14	ALEX192014A.SSF	402856.733	48947
722074.396	4294246.49	4970	09-Jan-14	ALEX192014A.SSF	402857.843	48948
722074.775	4294247.623	5083	09-Jan-14	ALEX192014A.SSF	402858.745	48949
722075.239	4294248.843	4629	09-Jan-14	ALEX192014A.SSF	402859.864	48950
722076.051	4294249.589	4411	09-Jan-14	ALEX192014A.SSF	402860.741	48951
722077.12	4294250.466	5121	09-Jan-14	ALEX192014A.SSF	402861.764	48952
722077.878	4294251.513	5048	09-Jan-14	ALEX192014A.SSF	402862.766	48953
722078.508	4294252.237	4879	09-Jan-14	ALEX192014A.SSF	402863.7729	48954
722079.221	4294252.003	4860	09-Jan-14	ALEX192014A.SSF	402864.7729	48955
722079.973	4294250.88	4871	09-Jan-14	ALEX192014A.SSF	402865.86	48956
722080.076	4294250.018	4510	09-Jan-14	ALEX192014A.SSF	402866.787	48957
722079.455	4294249.302	4681	09-Jan-14	ALEX192014A.SSF	402867.8979	48958
722078.805	4294248.46	4523	09-Jan-14	ALEX192014A.SSF	402868.818	48959
722078.223	4294247.307	4884	09-Jan-14	ALEX192014A.SSF	402869.928	48960
722077.698	4294246.608	4532	09-Jan-14	ALEX192014A.SSF	402870.761	48961
722076.929	4294245.945	4859	09-Jan-14	ALEX192014A.SSF	402871.842	48962
722076.37	4294245.269	4976	09-Jan-14	ALEX192014A.SSF	402872.697	48963
722075.787	4294244.361	5041	09-Jan-14	ALEX192014A.SSF	402873.738	48964
722075.015	4294243.627	5063	09-Jan-14	ALEX192014A.SSF	402874.743	48965
722073.961	4294242.901	5083	09-Jan-14	ALEX192014A.SSF	402875.834	48966
722073.249	4294241.888	5004	09-Jan-14	ALEX192014A.SSF	402876.751	48967
722072.623	4294240.7	4825	09-Jan-14	ALEX192014A.SSF	402877.8719	48968
722072.157	4294240.213	5421	09-Jan-14	ALEX192014A.SSF	402878.786	48969
722071.53	4294239.454	5787	09-Jan-14	ALEX192014A.SSF	402879.821	48970
722070.923	4294238.22	5947	09-Jan-14	ALEX192014A.SSF	402880.829	48971
722070.211	4294237.035	5393	09-Jan-14	ALEX192014A.SSF	402881.829	48972
722069.448	4294236.107	4826	09-Jan-14	ALEX192014A.SSF	402882.837	48973
722068.823	4294234.886	4919	09-Jan-14	ALEX192014A.SSF	402883.8521	48974
722068.265	4294233.68	4710	09-Jan-14	ALEX192014A.SSF	402884.844	48975
722067.622	4294232.936	4456	09-Jan-14	ALEX192014A.SSF	402885.826	48976
722066.998	4294231.988	4449	09-Jan-14	ALEX192014A.SSF	402886.825	48977
722066.433	4294230.933	4640	09-Jan-14	ALEX192014A.SSF	402887.842	48978
722065.731	4294230.104	5100	09-Jan-14	ALEX192014A.SSF	402888.752	48979
722064.758	4294229.216	4871	09-Jan-14	ALEX192014A.SSF	402889.855	48980
722064.176	4294228.375	5432	09-Jan-14	ALEX192014A.SSF	402890.731	48981
722063.533	4294227.138	5801	09-Jan-14	ALEX192014A.SSF	402891.828	48982
722062.856	4294226.211	5355	09-Jan-14	ALEX192014A.SSF	402892.729	48983
722061.892	4294225.327	5412	09-Jan-14	ALEX192014A.SSF	402893.837	48984
722061.338	4294224.533	5782	09-Jan-14	ALEX192014A.SSF	402894.741	48985

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722060.968	4294223.443	6027	09-Jan-14	ALEX192014A.SSF	402895.842	48986
722060.558	4294222.749	6490	09-Jan-14	ALEX192014A.SSF	402896.769	48987
722059.954	4294222.198	7292	09-Jan-14	ALEX192014A.SSF	402897.785	48988
722059.666	4294221.605	8753	09-Jan-14	ALEX192014A.SSF	402898.734	48989
722059.512	4294220.978	7798	09-Jan-14	ALEX192014A.SSF	402899.8459	48990
722059.451	4294220.965	7709	09-Jan-14	ALEX192014A.SSF	402900.7371	48991
722059.574	4294220.823	7627	09-Jan-14	ALEX192014A.SSF	402901.812	48992
722059.471	4294220.376	7306	09-Jan-14	ALEX192014A.SSF	402902.7321	48993
722059.63	4294219.912	7736	09-Jan-14	ALEX192014A.SSF	402903.854	48994
722060.141	4294219.538	7784	09-Jan-14	ALEX192014A.SSF	402904.694	48995
722060.667	4294219.549	6956	09-Jan-14	ALEX192014A.SSF	402905.826	48996
722060.836	4294220.33	6719	09-Jan-14	ALEX192014A.SSF	402906.7271	48997
722061.142	4294221.53	6089	09-Jan-14	ALEX192014A.SSF	402907.842	48998
722061.842	4294222.518	6952	09-Jan-14	ALEX192014A.SSF	402908.7469	48999
722062.764	4294223.538	7318	09-Jan-14	ALEX192014A.SSF	402909.849	49000
722063.268	4294224.388	6119	09-Jan-14	ALEX192014A.SSF	402910.694	49001
722063.789	4294225.657	5970	09-Jan-14	ALEX192014A.SSF	402911.887	49002
722064.346	4294226.476	6033	09-Jan-14	ALEX192014A.SSF	402912.7061	49003
722065.371	4294227.587	5892	09-Jan-14	ALEX192014A.SSF	402913.848	49004
722066.141	4294228.609	5619	09-Jan-14	ALEX192014A.SSF	402914.771	49005
722066.805	4294229.907	4631	09-Jan-14	ALEX192014A.SSF	402915.8101	49006
722067.336	4294231.003	4435	09-Jan-14	ALEX192014A.SSF	402916.761	49007
722068.251	4294232.085	4677	09-Jan-14	ALEX192014A.SSF	402917.864	49008
722069.022	4294232.94	4701	09-Jan-14	ALEX192014A.SSF	402918.777	49009
722069.759	4294234.234	4729	09-Jan-14	ALEX192014A.SSF	402919.8879	49010
722070.214	4294235.305	4842	09-Jan-14	ALEX192014A.SSF	402920.7371	49011
722070.911	4294236.463	4719	09-Jan-14	ALEX192014A.SSF	402921.7531	49012
722071.715	4294237.361	4702	09-Jan-14	ALEX192014A.SSF	402922.736	49013
722072.447	4294238.344	4707	09-Jan-14	ALEX192014A.SSF	402923.749	49014
722072.943	4294239.386	4995	09-Jan-14	ALEX192014A.SSF	402924.74	49015
722073.514	4294240.168	4857	09-Jan-14	ALEX192014A.SSF	402925.813	49016
722074.051	4294240.826	4929	09-Jan-14	ALEX192014A.SSF	402926.725	49017
722074.71	4294241.903	4768	09-Jan-14	ALEX192014A.SSF	402927.844	49018
722075.449	4294242.629	4616	09-Jan-14	ALEX192014A.SSF	402928.787	49019
722076.362	4294243.491	4892	09-Jan-14	ALEX192014A.SSF	402929.834	49020
722076.977	4294244.406	4972	09-Jan-14	ALEX192014A.SSF	402930.749	49021
722077.795	4294245.484	5136	09-Jan-14	ALEX192014A.SSF	402931.8929	49022
722078.607	4294246.072	5289	09-Jan-14	ALEX192014A.SSF	402932.739	49023
722079.561	4294246.816	6050	09-Jan-14	ALEX192014A.SSF	402933.855	49024
722080.105	4294247.418	5683	09-Jan-14	ALEX192014A.SSF	402934.764	49025
722080.989	4294247.732	5597	09-Jan-14	ALEX192014A.SSF	402935.748	49026
722081.862	4294248.099	5585	09-Jan-14	ALEX192014A.SSF	402936.691	49027
722082.691	4294248.578	6292	09-Jan-14	ALEX192014A.SSF	402937.806	49028
722083.585	4294248.673	7033	09-Jan-14	ALEX192014A.SSF	402938.724	49029
722084.403	4294248.476	5772	09-Jan-14	ALEX192014A.SSF	402939.77	49030
722084.35	4294248.059	6067	09-Jan-14	ALEX192014A.SSF	402940.8051	49031
722083.764	4294247.445	6646	09-Jan-14	ALEX192014A.SSF	402941.833	49032

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722083.307	4294246.813	5981	09-Jan-14	ALEX192014A.SSF	402942.731	49033
722082.582	4294245.978	6383	09-Jan-14	ALEX192014A.SSF	402943.8361	49034
722081.735	4294245.29	6575	09-Jan-14	ALEX192014A.SSF	402944.795	49035
722080.865	4294244.406	7014	09-Jan-14	ALEX192014A.SSF	402945.8311	49036
722080.225	4294243.658	6853	09-Jan-14	ALEX192014A.SSF	402946.7321	49037
722079.373	4294242.795	6093	09-Jan-14	ALEX192014A.SSF	402947.833	49038
722078.531	4294242.092	5630	09-Jan-14	ALEX192014A.SSF	402948.8101	49039
722077.862	4294241.172	5649	09-Jan-14	ALEX192014A.SSF	402949.844	49040
722077.432	4294240.382	4962	09-Jan-14	ALEX192014A.SSF	402950.807	49041
722076.768	4294239.677	4839	09-Jan-14	ALEX192014A.SSF	402951.799	49042
722076.029	4294239.094	4867	09-Jan-14	ALEX192014A.SSF	402952.767	49043
722075.46	4294238.229	4740	09-Jan-14	ALEX192014A.SSF	402953.84	49044
722074.907	4294237.38	4706	09-Jan-14	ALEX192014A.SSF	402954.733	49045
722074.031	4294236.342	4852	09-Jan-14	ALEX192014A.SSF	402955.824	49046
722073.194	4294235.367	4709	09-Jan-14	ALEX192014A.SSF	402956.814	49047
722072.579	4294234.228	4539	09-Jan-14	ALEX192014A.SSF	402957.79	49048
722071.992	4294233.134	4255	09-Jan-14	ALEX192014A.SSF	402958.782	49049
722071.443	4294232.423	4396	09-Jan-14	ALEX192014A.SSF	402959.865	49050
722071.241	4294232.182	4745	09-Jan-14	ALEX192014A.SSF	402960.7581	49051
722071.048	4294231.962	4536	09-Jan-14	ALEX192014A.SSF	402961.7939	49052
722070.622	4294231.328	4734	09-Jan-14	ALEX192014A.SSF	402962.7	49053
722069.858	4294230.074	4785	09-Jan-14	ALEX192014A.SSF	402963.803	49054
722068.888	4294228.941	4669	09-Jan-14	ALEX192014A.SSF	402964.78	49055
722067.659	4294227.859	4999	09-Jan-14	ALEX192014A.SSF	402965.9	49056
722066.848	4294226.88	5625	09-Jan-14	ALEX192014A.SSF	402966.7791	49057
722066.102	4294225.577	6171	09-Jan-14	ALEX192014A.SSF	402967.8051	49058
722065.369	4294224.527	7482	09-Jan-14	ALEX192014A.SSF	402968.782	49059
722064.374	4294223.623	6376	09-Jan-14	ALEX192014A.SSF	402969.8621	49060
722063.569	4294222.832	6964	09-Jan-14	ALEX192014A.SSF	402970.728	49061
722062.787	4294221.684	6811	09-Jan-14	ALEX192014A.SSF	402971.798	49062
722062.141	4294220.817	7732	09-Jan-14	ALEX192014A.SSF	402972.782	49063
722061.344	4294220.199	7033	09-Jan-14	ALEX192014A.SSF	402973.863	49064
722061.001	4294219.654	6678	09-Jan-14	ALEX192014A.SSF	402974.761	49065
722061.184	4294219.067	6259	09-Jan-14	ALEX192014A.SSF	402975.811	49066
722061.863	4294218.956	7594	09-Jan-14	ALEX192014A.SSF	402976.775	49067
722062.638	4294219.261	8078	09-Jan-14	ALEX192014A.SSF	402977.785	49068
722063.139	4294219.927	7899	09-Jan-14	ALEX192014A.SSF	402978.688	49069
722063.589	4294220.917	7315	09-Jan-14	ALEX192014A.SSF	402979.764	49070
722064.126	4294221.679	6928	09-Jan-14	ALEX192014A.SSF	402980.816	49071
722065.005	4294222.47	7222	09-Jan-14	ALEX192014A.SSF	402981.902	49072
722065.672	4294223.269	7265	09-Jan-14	ALEX192014A.SSF	402982.777	49073
722066.333	4294224.551	6646	09-Jan-14	ALEX192014A.SSF	402983.865	49074
722066.828	4294225.573	7811	09-Jan-14	ALEX192014A.SSF	402984.818	49075
722067.625	4294226.523	6663	09-Jan-14	ALEX192014A.SSF	402985.804	49076
722068.54	4294227.419	5768	09-Jan-14	ALEX192014A.SSF	402986.783	49077
722069.424	4294228.705	5884	09-Jan-14	ALEX192014A.SSF	402987.912	49078
722069.87	4294229.886	6033	09-Jan-14	ALEX192014A.SSF	402988.816	49079

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722070.483	4294230.955	5371	09-Jan-14	ALEX192014A.SSF	402989.818	49080
722071.213	4294231.615	4971	09-Jan-14	ALEX192014A.SSF	402990.778	49081
722071.767	4294232.333	4919	09-Jan-14	ALEX192014A.SSF	402991.775	49082
722072.308	4294233.232	5519	09-Jan-14	ALEX192014A.SSF	402992.7581	49083
722073.161	4294234.287	5272	09-Jan-14	ALEX192014A.SSF	402993.876	49084
722073.822	4294235.224	5283	09-Jan-14	ALEX192014A.SSF	402994.731	49085
722074.482	4294236.314	5034	09-Jan-14	ALEX192014A.SSF	402995.807	49086
722075.222	4294237.121	5074	09-Jan-14	ALEX192014A.SSF	402996.723	49087
722076.292	4294238.1	4886	09-Jan-14	ALEX192014A.SSF	402997.85	49088
722076.844	4294238.881	4511	09-Jan-14	ALEX192014A.SSF	402998.698	49089
722077.284	4294239.95	4390	09-Jan-14	ALEX192014A.SSF	402999.799	49090
722077.747	4294240.755	4592	09-Jan-14	ALEX192014A.SSF	403000.73	49091
722078.571	4294241.422	4885	09-Jan-14	ALEX192014A.SSF	403001.816	49092
722079.204	4294241.945	5508	09-Jan-14	ALEX192014A.SSF	403002.744	49093
722079.672	4294242.78	5775	09-Jan-14	ALEX192014A.SSF	403003.8831	49094
722080.075	4294243.442	5991	09-Jan-14	ALEX192014A.SSF	403004.722	49095
722080.74	4294244.26	6341	09-Jan-14	ALEX192014A.SSF	403005.8199	49096
722081.243	4294245.002	6053	09-Jan-14	ALEX192014A.SSF	403006.698	49097
722081.876	4294245.796	6454	09-Jan-14	ALEX192014A.SSF	403007.847	49098
722082.339	4294246.199	7073	09-Jan-14	ALEX192014A.SSF	403008.705	49099
722082.849	4294247.025	6568	09-Jan-14	ALEX192014A.SSF	403009.829	49100
722083.324	4294247.533	6322	09-Jan-14	ALEX192014A.SSF	403010.694	49101
722084.048	4294247.37	6680	09-Jan-14	ALEX192014A.SSF	403011.775	49102
722084.526	4294246.637	6620	09-Jan-14	ALEX192014A.SSF	403012.705	49103
722084.59	4294245.676	7025	09-Jan-14	ALEX192014A.SSF	403013.817	49104
722084.033	4294245.057	7276	09-Jan-14	ALEX192014A.SSF	403014.73	49105
722083.17	4294244.558	6739	09-Jan-14	ALEX192014A.SSF	403015.7209	49106
722082.696	4294243.879	7444	09-Jan-14	ALEX192014A.SSF	403016.67	49107
722082.214	4294242.938	8641	09-Jan-14	ALEX192014A.SSF	403017.7729	49108
722081.5	4294242.417	7680	09-Jan-14	ALEX192014A.SSF	403018.7061	49109
722080.829	4294241.672	6030	09-Jan-14	ALEX192014A.SSF	403019.798	49110
722080.586	4294240.956	6461	09-Jan-14	ALEX192014A.SSF	403020.6899	49111
722080.182	4294240.182	5288	09-Jan-14	ALEX192014A.SSF	403021.798	49112
722079.641	4294239.573	5254	09-Jan-14	ALEX192014A.SSF	403022.744	49113
722079.129	4294238.651	4748	09-Jan-14	ALEX192014A.SSF	403023.8459	49114
722078.759	4294237.859	4838	09-Jan-14	ALEX192014A.SSF	403024.744	49115
722078.279	4294237.121	4649	09-Jan-14	ALEX192014A.SSF	403025.833	49116
722077.852	4294236.361	4730	09-Jan-14	ALEX192014A.SSF	403026.725	49117
722077.255	4294235.267	4663	09-Jan-14	ALEX192014A.SSF	403027.798	49118
722076.553	4294234.486	4513	09-Jan-14	ALEX192014A.SSF	403028.743	49119
722075.672	4294233.589	4601	09-Jan-14	ALEX192014A.SSF	403029.827	49120
722075.074	4294232.696	4860	09-Jan-14	ALEX192014A.SSF	403030.71	49121
722074.345	4294231.769	4624	09-Jan-14	ALEX192014A.SSF	403031.801	49122
722073.871	4294231.223	4956	09-Jan-14	ALEX192014A.SSF	403032.662	49123
722073.391	4294230.481	5127	09-Jan-14	ALEX192014A.SSF	403033.746	49124
722072.691	4294229.647	5126	09-Jan-14	ALEX192014A.SSF	403034.73	49125
722071.697	4294228.794	4968	09-Jan-14	ALEX192014A.SSF	403035.803	49126

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722071.037	4294227.954	4947	09-Jan-14	ALEX192014A.SSF	403036.665	49127
722070.373	4294226.705	5025	09-Jan-14	ALEX192014A.SSF	403037.802	49128
722069.706	4294225.863	5677	09-Jan-14	ALEX192014A.SSF	403038.6899	49129
722068.758	4294225.039	5533	09-Jan-14	ALEX192014A.SSF	403039.755	49130
722067.931	4294224.142	5797	09-Jan-14	ALEX192014A.SSF	403040.776	49131
722067.34	4294223.081	7124	09-Jan-14	ALEX192014A.SSF	403041.7841	49132
722066.8	4294222.049	7751	09-Jan-14	ALEX192014A.SSF	403042.785	49133
722066.038	4294221.184	6497	09-Jan-14	ALEX192014A.SSF	403043.8101	49134
722065.33	4294220.266	7114	09-Jan-14	ALEX192014A.SSF	403044.774	49135
722064.742	4294219.033	7268	09-Jan-14	ALEX192014A.SSF	403045.829	49136
722064.232	4294218.198	8447	09-Jan-14	ALEX192014A.SSF	403046.697	49137
722063.562	4294217.51	8111	09-Jan-14	ALEX192014A.SSF	403047.762	49138
722063.565	4294217.063	7998	09-Jan-14	ALEX192014A.SSF	403048.7581	49139
722064.132	4294216.635	7939	09-Jan-14	ALEX192014A.SSF	403049.766	49140
722064.689	4294216.523	8224	09-Jan-14	ALEX192014A.SSF	403050.636	49141
722065.249	4294216.84	8056	09-Jan-14	ALEX192014A.SSF	403051.736	49142
722065.537	4294217.6	8494	09-Jan-14	ALEX192014A.SSF	403052.71	49143
722065.782	4294218.628	7943	09-Jan-14	ALEX192014A.SSF	403053.771	49144
722066.187	4294219.442	7026	09-Jan-14	ALEX192014A.SSF	403054.722	49145
722066.911	4294220.329	6946	09-Jan-14	ALEX192014A.SSF	403055.8051	49146
722067.486	4294221.116	7046	09-Jan-14	ALEX192014A.SSF	403056.76	49147
722067.997	4294222.137	7311	09-Jan-14	ALEX192014A.SSF	403057.8669	49148
722068.475	4294222.984	7378	09-Jan-14	ALEX192014A.SSF	403058.73	49149
722069.14	4294223.912	6584	09-Jan-14	ALEX192014A.SSF	403059.798	49150
722069.624	4294224.743	7346	09-Jan-14	ALEX192014A.SSF	403060.699	49151
722070.028	4294225.729	7266	09-Jan-14	ALEX192014A.SSF	403061.735	49152
722070.563	4294226.628	6976	09-Jan-14	ALEX192014A.SSF	403062.723	49153
722071.377	4294227.542	6274	09-Jan-14	ALEX192014A.SSF	403063.781	49154
722072.052	4294228.399	6162	09-Jan-14	ALEX192014A.SSF	403064.673	49155
722072.685	4294229.495	6130	09-Jan-14	ALEX192014A.SSF	403065.822	49156
722073.222	4294230.156	5223	09-Jan-14	ALEX192014A.SSF	403066.728	49157
722073.891	4294230.662	5421	09-Jan-14	ALEX192014A.SSF	403067.819	49158
722074.345	4294231.291	4924	09-Jan-14	ALEX192014A.SSF	403068.783	49159
722074.937	4294232.217	5027	09-Jan-14	ALEX192014A.SSF	403069.781	49160
722075.64	4294233.05	4740	09-Jan-14	ALEX192014A.SSF	403070.63	49161
722076.536	4294234.227	4451	09-Jan-14	ALEX192014A.SSF	403071.7209	49162
722077.179	4294235.462	4664	09-Jan-14	ALEX192014A.SSF	403072.704	49163
722077.746	4294236.657	4956	09-Jan-14	ALEX192014A.SSF	403073.786	49164
722078.295	4294237.325	4827	09-Jan-14	ALEX192014A.SSF	403074.6479	49165
722079.04	4294238.24	5318	09-Jan-14	ALEX192014A.SSF	403075.791	49166
722079.453	4294239.125	5354	09-Jan-14	ALEX192014A.SSF	403076.748	49167
722080.026	4294239.877	5314	09-Jan-14	ALEX192014A.SSF	403077.797	49168
722080.784	4294240.347	5644	09-Jan-14	ALEX192014A.SSF	403078.707	49169
722081.602	4294241.108	6796	09-Jan-14	ALEX192014A.SSF	403079.785	49170
722082.108	4294241.909	6139	09-Jan-14	ALEX192014A.SSF	403080.702	49171
722082.588	4294242.727	7774	09-Jan-14	ALEX192014A.SSF	403081.748	49172
722083.232	4294243.543	7523	09-Jan-14	ALEX192014A.SSF	403082.729	49173

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722084.057	4294244.464	7221	09-Jan-14	ALEX192014A.SSF	403083.729	49174
722084.918	4294245.42	7355	09-Jan-14	ALEX192014A.SSF	403084.731	49175
722085.553	4294245.659	6428	09-Jan-14	ALEX192014A.SSF	403085.755	49176
722085.794	4294245.079	6227	09-Jan-14	ALEX192014A.SSF	403086.745	49177
722085.666	4294244.26	6746	09-Jan-14	ALEX192014A.SSF	403087.74	49178
722085.308	4294243.571	8016	09-Jan-14	ALEX192014A.SSF	403088.653	49179
722084.643	4294242.799	7884	09-Jan-14	ALEX192014A.SSF	403089.769	49180
722083.992	4294242.154	7191	09-Jan-14	ALEX192014A.SSF	403090.6479	49181
722083.341	4294241.034	7857	09-Jan-14	ALEX192014A.SSF	403091.782	49182
722082.93	4294240.019	7544	09-Jan-14	ALEX192014A.SSF	403092.713	49183
722082.234	4294239.159	6566	09-Jan-14	ALEX192014A.SSF	403093.7371	49184
722081.489	4294238.546	5792	09-Jan-14	ALEX192014A.SSF	403094.6429	49185
722080.807	4294237.505	5590	09-Jan-14	ALEX192014A.SSF	403095.8311	49186
722080.459	4294236.701	5297	09-Jan-14	ALEX192014A.SSF	403096.74	49187
722079.991	4294235.873	5342	09-Jan-14	ALEX192014A.SSF	403097.834	49188
722079.54	4294235.145	4932	09-Jan-14	ALEX192014A.SSF	403098.7419	49189
722078.979	4294234.122	4754	09-Jan-14	ALEX192014A.SSF	403099.76	49190
722078.297	4294233.044	5269	09-Jan-14	ALEX192014A.SSF	403100.726	49191
722077.339	4294231.914	5191	09-Jan-14	ALEX192014A.SSF	403101.759	49192
722076.542	4294230.9	5582	09-Jan-14	ALEX192014A.SSF	403102.675	49193
722076.038	4294229.715	5487	09-Jan-14	ALEX192014A.SSF	403103.7889	49194
722075.639	4294228.94	6011	09-Jan-14	ALEX192014A.SSF	403104.6379	49195
722074.771	4294228.092	5864	09-Jan-14	ALEX192014A.SSF	403105.8	49196
722074.095	4294227.338	6594	09-Jan-14	ALEX192014A.SSF	403106.652	49197
722073.45	4294226.332	6778	09-Jan-14	ALEX192014A.SSF	403107.778	49198
722072.928	4294225.637	7004	09-Jan-14	ALEX192014A.SSF	403108.674	49199
722072.146	4294224.829	7151	09-Jan-14	ALEX192014A.SSF	403109.743	49200
722071.584	4294223.881	6797	09-Jan-14	ALEX192014A.SSF	403110.6801	49201
722071.059	4294222.669	7309	09-Jan-14	ALEX192014A.SSF	403111.79	49202
722070.497	4294221.786	7497	09-Jan-14	ALEX192014A.SSF	403112.708	49203
722069.635	4294220.852	7574	09-Jan-14	ALEX192014A.SSF	403113.7679	49204
722068.915	4294219.746	6393	09-Jan-14	ALEX192014A.SSF	403114.744	49205
722068.347	4294218.433	6338	09-Jan-14	ALEX192014A.SSF	403115.791	49206
722067.794	4294217.481	6564	09-Jan-14	ALEX192014A.SSF	403116.6949	49207
722066.9	4294216.688	7131	09-Jan-14	ALEX192014A.SSF	403117.7629	49208
722066.183	4294216.023	7002	09-Jan-14	ALEX192014A.SSF	403118.714	49209
722065.702	4294215.242	7810	09-Jan-14	ALEX192014A.SSF	403119.749	49210
722065.508	4294214.422	7772	09-Jan-14	ALEX192014A.SSF	403120.739	49211
722065.547	4294213.668	6983	09-Jan-14	ALEX192014A.SSF	403121.8051	49212
722065.723	4294213.632	7865	09-Jan-14	ALEX192014A.SSF	403122.665	49213
722066.129	4294214.22	6586	09-Jan-14	ALEX192014A.SSF	403123.754	49214
722066.656	4294214.949	6836	09-Jan-14	ALEX192014A.SSF	403124.703	49215
722067.337	4294215.787	7019	09-Jan-14	ALEX192014A.SSF	403125.797	49216
722067.777	4294216.429	6915	09-Jan-14	ALEX192014A.SSF	403126.682	49217
722068.199	4294217.353	6258	09-Jan-14	ALEX192014A.SSF	403127.776	49218
722068.481	4294218.158	6724	09-Jan-14	ALEX192014A.SSF	403128.662	49219
722069.147	4294219.053	7231	09-Jan-14	ALEX192014A.SSF	403129.759	49220

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722069.853	4294219.651	7897	09-Jan-14	ALEX192014A.SSF	403130.614	49221
722070.431	4294220.503	7284	09-Jan-14	ALEX192014A.SSF	403131.702	49222
722070.831	4294221.403	6621	09-Jan-14	ALEX192014A.SSF	403132.6899	49223
722071.373	4294222.149	7775	09-Jan-14	ALEX192014A.SSF	403133.6851	49224
722071.852	4294223.008	6983	09-Jan-14	ALEX192014A.SSF	403134.702	49225
722072.248	4294223.957	6126	09-Jan-14	ALEX192014A.SSF	403135.72	49226
722072.848	4294224.67	6841	09-Jan-14	ALEX192014A.SSF	403136.686	49227
722073.655	4294225.45	7230	09-Jan-14	ALEX192014A.SSF	403137.808	49228
722074.088	4294226.226	7207	09-Jan-14	ALEX192014A.SSF	403138.728	49229
722074.564	4294227.163	6212	09-Jan-14	ALEX192014A.SSF	403139.723	49230
722075.167	4294227.949	7613	09-Jan-14	ALEX192014A.SSF	403140.704	49231
722075.682	4294228.684	6613	09-Jan-14	ALEX192014A.SSF	403141.765	49232
722076.262	4294229.504	5763	09-Jan-14	ALEX192014A.SSF	403142.698	49233
722077.158	4294230.534	5964	09-Jan-14	ALEX192014A.SSF	403143.769	49234
722077.708	4294231.562	5012	09-Jan-14	ALEX192014A.SSF	403144.66	49235
722078.164	4294232.805	4702	09-Jan-14	ALEX192014A.SSF	403145.7321	49236
722078.788	4294233.664	4677	09-Jan-14	ALEX192014A.SSF	403146.627	49237
722079.824	4294234.619	4911	09-Jan-14	ALEX192014A.SSF	403147.736	49238
722080.468	4294235.469	5005	09-Jan-14	ALEX192014A.SSF	403148.63	49239
722080.973	4294236.359	4495	09-Jan-14	ALEX192014A.SSF	403149.7321	49240
722081.414	4294236.912	4621	09-Jan-14	ALEX192014A.SSF	403150.634	49241
722082.139	4294237.899	4879	09-Jan-14	ALEX192014A.SSF	403151.752	49242
722082.68	4294238.925	5504	09-Jan-14	ALEX192014A.SSF	403152.658	49243
722083.226	4294239.902	6306	09-Jan-14	ALEX192014A.SSF	403153.682	49244
722083.855	4294240.686	6556	09-Jan-14	ALEX192014A.SSF	403154.661	49245
722084.541	4294241.573	6349	09-Jan-14	ALEX192014A.SSF	403155.7271	49246
722084.956	4294242.372	6927	09-Jan-14	ALEX192014A.SSF	403156.718	49247
722085.494	4294243.193	7342	09-Jan-14	ALEX192014A.SSF	403157.811	49248
722086.278	4294243.752	6545	09-Jan-14	ALEX192014A.SSF	403158.673	49249
722087.416	4294243.752	7306	09-Jan-14	ALEX192014A.SSF	403159.735	49250
722088.101	4294243.107	6956	09-Jan-14	ALEX192014A.SSF	403160.681	49251
722087.918	4294242.206	7469	09-Jan-14	ALEX192014A.SSF	403161.754	49252
722087.167	4294241.468	6547	09-Jan-14	ALEX192014A.SSF	403162.6591	49253
722086.35	4294240.341	7456	09-Jan-14	ALEX192014A.SSF	403163.7791	49254
722085.881	4294239.389	6814	09-Jan-14	ALEX192014A.SSF	403164.699	49255
722085.215	4294238.423	7703	09-Jan-14	ALEX192014A.SSF	403165.734	49256
722084.38	4294237.698	7626	09-Jan-14	ALEX192014A.SSF	403166.692	49257
722083.537	4294236.887	6946	09-Jan-14	ALEX192014A.SSF	403167.8149	49258
722082.966	4294235.857	6626	09-Jan-14	ALEX192014A.SSF	403168.745	49259
722082.256	4294234.634	5136	09-Jan-14	ALEX192014A.SSF	403169.771	49260
722081.627	4294233.935	4816	09-Jan-14	ALEX192014A.SSF	403170.709	49261
722081.061	4294233.098	4712	09-Jan-14	ALEX192014A.SSF	403171.7841	49262
722080.666	4294232.186	5088	09-Jan-14	ALEX192014A.SSF	403172.676	49263
722080.069	4294231.126	5074	09-Jan-14	ALEX192014A.SSF	403173.712	49264
722079.398	4294230.282	4954	09-Jan-14	ALEX192014A.SSF	403174.631	49265
722078.785	4294229.251	4864	09-Jan-14	ALEX192014A.SSF	403175.788	49266
722078.557	4294228.635	4948	09-Jan-14	ALEX192014A.SSF	403176.66	49267

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722078.22	4294228.176	5506	09-Jan-14	ALEX192014A.SSF	403177.788	49268
722077.892	4294227.79	5692	09-Jan-14	ALEX192014A.SSF	403178.715	49269
722077.351	4294227.156	5887	09-Jan-14	ALEX192014A.SSF	403179.79	49270
722076.641	4294226.538	6617	09-Jan-14	ALEX192014A.SSF	403180.629	49271
722075.685	4294225.577	6724	09-Jan-14	ALEX192014A.SSF	403181.735	49272
722075.211	4294224.757	7351	09-Jan-14	ALEX192014A.SSF	403182.5861	49273
722074.657	4294223.676	8077	09-Jan-14	ALEX192014A.SSF	403183.726	49274
722073.983	4294222.882	7149	09-Jan-14	ALEX192014A.SSF	403184.632	49275
722073.156	4294221.821	7037	09-Jan-14	ALEX192014A.SSF	403185.748	49276
722072.803	4294220.938	7519	09-Jan-14	ALEX192014A.SSF	403186.637	49277
722072.37	4294219.923	6979	09-Jan-14	ALEX192014A.SSF	403187.7271	49278
722071.742	4294219.175	7265	09-Jan-14	ALEX192014A.SSF	403188.715	49279
722071.101	4294218.127	7186	09-Jan-14	ALEX192014A.SSF	403189.807	49280
722070.682	4294216.999	7046	09-Jan-14	ALEX192014A.SSF	403190.726	49281
722070.094	4294215.945	6741	09-Jan-14	ALEX192014A.SSF	403191.809	49282
722069.385	4294215.397	7325	09-Jan-14	ALEX192014A.SSF	403192.707	49283
722068.363	4294214.752	7981	09-Jan-14	ALEX192014A.SSF	403193.8101	49284
722067.839	4294213.938	7815	09-Jan-14	ALEX192014A.SSF	403194.709	49285
722067.531	4294212.886	7773	09-Jan-14	ALEX192014A.SSF	403195.7419	49286
722067.299	4294212.123	7913	09-Jan-14	ALEX192014A.SSF	403196.642	49287
722067.112	4294211.654	7978	09-Jan-14	ALEX192014A.SSF	403197.745	49288
722067.144	4294211.913	6944	09-Jan-14	ALEX192014A.SSF	403198.645	49289
722067.43	4294212.618	7316	09-Jan-14	ALEX192014A.SSF	403199.72	49290
722068.112	4294213.401	7379	09-Jan-14	ALEX192014A.SSF	403200.715	49291
722068.875	4294214.167	6554	09-Jan-14	ALEX192014A.SSF	403201.715	49292
722069.28	4294214.897	7248	09-Jan-14	ALEX192014A.SSF	403202.718	49293
722069.595	4294215.628	7062	09-Jan-14	ALEX192014A.SSF	403203.714	49294
722070.263	4294216.39	8215	09-Jan-14	ALEX192014A.SSF	403204.719	49295
722071.09	4294217.213	6554	09-Jan-14	ALEX192014A.SSF	403205.804	49296
722071.477	4294217.97	6438	09-Jan-14	ALEX192014A.SSF	403206.655	49297
722072.005	4294219.062	6379	09-Jan-14	ALEX192014A.SSF	403207.755	49298
722072.698	4294219.873	6784	09-Jan-14	ALEX192014A.SSF	403208.688	49299
722073.332	4294220.545	6016	09-Jan-14	ALEX192014A.SSF	403209.7629	49300
722073.619	4294221.052	5529	09-Jan-14	ALEX192014A.SSF	403210.6219	49301
722073.91	4294221.752	5150	09-Jan-14	ALEX192014A.SSF	403211.6899	49302
722074.202	4294222.252	5274	09-Jan-14	ALEX192014A.SSF	403212.67	49303
722074.58	4294222.688	5486	09-Jan-14	ALEX192014A.SSF	403213.74	49304
722074.933	4294223.467	5621	09-Jan-14	ALEX192014A.SSF	403214.679	49305
722075.365	4294224.468	5524	09-Jan-14	ALEX192014A.SSF	403215.698	49306
722075.82	4294224.937	5170	09-Jan-14	ALEX192014A.SSF	403216.595	49307
722076.39	4294225.491	5015	09-Jan-14	ALEX192014A.SSF	403217.646	49308
722077.035	4294226.556	5273	09-Jan-14	ALEX192014A.SSF	403218.652	49309
722077.789	4294227.559	6019	09-Jan-14	ALEX192014A.SSF	403219.7111	49310
722078.475	4294228.463	5703	09-Jan-14	ALEX192014A.SSF	403220.707	49311
722079.089	4294229.57	5240	09-Jan-14	ALEX192014A.SSF	403221.708	49312
722079.796	4294230.593	5347	09-Jan-14	ALEX192014A.SSF	403222.6541	49313
722080.796	4294231.649	5415	09-Jan-14	ALEX192014A.SSF	403223.751	49314

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722081.509	4294232.597	5356	09-Jan-14	ALEX192014A.SSF	403224.667	49315
722082.13	4294233.686	5653	09-Jan-14	ALEX192014A.SSF	403225.777	49316
722082.672	4294234.392	5669	09-Jan-14	ALEX192014A.SSF	403226.713	49317
722083.349	4294235.196	5626	09-Jan-14	ALEX192014A.SSF	403227.7791	49318
722083.617	4294235.949	5520	09-Jan-14	ALEX192014A.SSF	403228.6949	49319
722083.872	4294236.806	6157	09-Jan-14	ALEX192014A.SSF	403229.704	49320
722084.641	4294237.743	5919	09-Jan-14	ALEX192014A.SSF	403230.709	49321
722085.744	4294238.826	6479	09-Jan-14	ALEX192014A.SSF	403231.7729	49322
722086.472	4294239.829	6810	09-Jan-14	ALEX192014A.SSF	403232.663	49323
722087.038	4294240.963	6622	09-Jan-14	ALEX192014A.SSF	403233.7419	49324
722087.452	4294241.673	6485	09-Jan-14	ALEX192014A.SSF	403234.704	49325
722087.956	4294241.957	7411	09-Jan-14	ALEX192014A.SSF	403235.437	49326
722088.796	4294241.93	7822	09-Jan-14	ALEX192014A.SSF	403236.3311	49327
722089.788	4294241.398	7955	09-Jan-14	ALEX192014A.SSF	403237.441	49328
722090.129	4294240.906	7239	09-Jan-14	ALEX192014A.SSF	403238.3521	49329
722090.035	4294240.202	6669	09-Jan-14	ALEX192014A.SSF	403239.486	49330
722089.746	4294239.51	8567	09-Jan-14	ALEX192014A.SSF	403240.6	49331
722089.324	4294238.996	7331	09-Jan-14	ALEX192014A.SSF	403241.679	49332
722089.125	4294238.694	7263	09-Jan-14	ALEX192014A.SSF	403242.563	49333
722089.077	4294238.601	7545	09-Jan-14	ALEX192014A.SSF	403243.701	49334
722089.059	4294238.714	7046	09-Jan-14	ALEX192014A.SSF	403244.566	49335
722089.051	4294238.877	6651	09-Jan-14	ALEX192014A.SSF	403245.63	49336
722089.028	4294239.019	7063	09-Jan-14	ALEX192014A.SSF	403246.5959	49337
722088.934	4294239.268	6655	09-Jan-14	ALEX192014A.SSF	403247.663	49338
722088.822	4294239.415	7454	09-Jan-14	ALEX192014A.SSF	403248.651	49339
722088.706	4294239.354	7653	09-Jan-14	ALEX192014A.SSF	403249.687	49340
722088.618	4294239.256	7793	09-Jan-14	ALEX192014A.SSF	403250.661	49341
722088.615	4294239.256	6928	09-Jan-14	ALEX192014A.SSF	403251.662	49342
722088.632	4294239.342	6772	09-Jan-14	ALEX192014A.SSF	403252.63	49343
722088.602	4294239.387	6793	09-Jan-14	ALEX192014A.SSF	403253.749	49344
722088.506	4294239.311	7248	09-Jan-14	ALEX192014A.SSF	403254.635	49345
722088.371	4294239.191	7572	09-Jan-14	ALEX192014A.SSF	403255.814	49346
722088.376	4294239.195	7563	09-Jan-14	ALEX192014A.SSF	403256.6219	49347
722088.431	4294239.23	7380	09-Jan-14	ALEX192014A.SSF	403257.719	49348
722088.439	4294239.232	8235	09-Jan-14	ALEX192014A.SSF	403258.771	49349
722088.393	4294239.243	7218	09-Jan-14	ALEX192014A.SSF	403259.757	49350
722088.368	4294239.277	7204	09-Jan-14	ALEX192014A.SSF	403260.65	49351
722088.37	4294239.324	6961	09-Jan-14	ALEX192014A.SSF	403261.7679	49352
722088.359	4294239.353	7590	09-Jan-14	ALEX192014A.SSF	403262.67	49353
722088.345	4294239.377	7897	09-Jan-14	ALEX192014A.SSF	403263.7061	49354
722088.335	4294239.391	8784	09-Jan-14	ALEX192014A.SSF	403264.609	49355
722088.316	4294239.402	6756	09-Jan-14	ALEX192014A.SSF	403265.735	49356
722088.318	4294239.414	6729	09-Jan-14	ALEX192014A.SSF	403266.71	49357
722088.322	4294239.436	6108	09-Jan-14	ALEX192014A.SSF	403267.796	49358
722088.321	4294239.447	6777	09-Jan-14	ALEX192014A.SSF	403268.637	49359
722088.322	4294239.453	7424	09-Jan-14	ALEX192014A.SSF	403269.709	49360
722088.321	4294239.464	7496	09-Jan-14	ALEX192014A.SSF	403270.645	49361

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722088.325	4294239.473	6314	09-Jan-14	ALEX192014A.SSF	403271.712	49362
722088.324	4294239.473	6918	09-Jan-14	ALEX192014A.SSF	403272.6071	49363
722088.231	4294239.426	6499	09-Jan-14	ALEX192014A.SSF	403273.738	49364
722088.051	4294239.082	6364	09-Jan-14	ALEX192014A.SSF	403274.6429	49365
722087.565	4294238.354	6031	09-Jan-14	ALEX192014A.SSF	403275.734	49366
722086.869	4294237.765	6205	09-Jan-14	ALEX192014A.SSF	403276.641	49367
722086.015	4294237.029	6981	09-Jan-14	ALEX192014A.SSF	403277.7679	49368
722085.622	4294236.255	6605	09-Jan-14	ALEX192014A.SSF	403278.671	49369
722085.19	4294235.201	6841	09-Jan-14	ALEX192014A.SSF	403279.7629	49370
722084.515	4294234.392	5880	09-Jan-14	ALEX192014A.SSF	403280.671	49371
722083.799	4294233.432	5542	09-Jan-14	ALEX192014A.SSF	403281.766	49372
722083.506	4294232.648	5127	09-Jan-14	ALEX192014A.SSF	403282.667	49373
722082.889	4294231.729	4654	09-Jan-14	ALEX192014A.SSF	403283.7581	49374
722082.165	4294230.949	4305	09-Jan-14	ALEX192014A.SSF	403284.65	49375
722081.487	4294229.783	4919	09-Jan-14	ALEX192014A.SSF	403285.746	49376
722080.992	4294228.757	5069	09-Jan-14	ALEX192014A.SSF	403286.652	49377
722080.444	4294227.879	5101	09-Jan-14	ALEX192014A.SSF	403287.6479	49378
722080.069	4294227.263	5179	09-Jan-14	ALEX192014A.SSF	403288.571	49379
722079.55	4294226.48	5366	09-Jan-14	ALEX192014A.SSF	403289.672	49380
722078.871	4294225.739	5058	09-Jan-14	ALEX192014A.SSF	403290.6219	49381
722078.21	4294224.744	5013	09-Jan-14	ALEX192014A.SSF	403291.765	49382
722077.899	4294223.995	5332	09-Jan-14	ALEX192014A.SSF	403292.673	49383
722077.445	4294223.164	5827	09-Jan-14	ALEX192014A.SSF	403293.676	49384
722076.963	4294222.42	5745	09-Jan-14	ALEX192014A.SSF	403294.598	49385
722076.568	4294221.807	5931	09-Jan-14	ALEX192014A.SSF	403295.656	49386
722076.108	4294221.299	5826	09-Jan-14	ALEX192014A.SSF	403296.663	49387
722075.511	4294220.56	6277	09-Jan-14	ALEX192014A.SSF	403297.661	49388
722075.087	4294219.752	5579	09-Jan-14	ALEX192014A.SSF	403298.686	49389
722074.71	4294219	5905	09-Jan-14	ALEX192014A.SSF	403299.705	49390
722074.318	4294217.994	5557	09-Jan-14	ALEX192014A.SSF	403300.644	49391
722073.648	4294216.634	5675	09-Jan-14	ALEX192014A.SSF	403301.7469	49392
722072.867	4294215.566	6373	09-Jan-14	ALEX192014A.SSF	403302.6689	49393
722072.225	4294214.723	6783	09-Jan-14	ALEX192014A.SSF	403303.692	49394
722071.913	4294214.342	6555	09-Jan-14	ALEX192014A.SSF	403304.629	49395
722071.659	4294213.687	7608	09-Jan-14	ALEX192014A.SSF	403305.7419	49396
722071.416	4294212.819	7062	09-Jan-14	ALEX192014A.SSF	403306.637	49397
722070.836	4294211.885	8215	09-Jan-14	ALEX192014A.SSF	403307.661	49398
722070.086	4294211.281	8204	09-Jan-14	ALEX192014A.SSF	403308.583	49399
722069.499	4294210.664	6581	09-Jan-14	ALEX192014A.SSF	403309.735	49400
722069.298	4294210.304	6985	09-Jan-14	ALEX192014A.SSF	403310.652	49401
722069.203	4294210.132	6696	09-Jan-14	ALEX192014A.SSF	403311.679	49402
722069.411	4294209.973	7614	09-Jan-14	ALEX192014A.SSF	403312.623	49403
722069.829	4294209.517	7813	09-Jan-14	ALEX192014A.SSF	403313.678	49404
722070.016	4294209.214	7953	09-Jan-14	ALEX192014A.SSF	403314.6421	49405
722069.969	4294209.238	7178	09-Jan-14	ALEX192014A.SSF	403315.658	49406
722069.88	4294209.316	7644	09-Jan-14	ALEX192014A.SSF	403316.6179	49407
722069.835	4294209.298	6561	09-Jan-14	ALEX192014A.SSF	403317.6609	49408

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722069.812	4294209.236	7250	09-Jan-14	ALEX192014A.SSF	403318.5869	49409
722069.759	4294209.218	6162	09-Jan-14	ALEX192014A.SSF	403319.7029	49410
722069.727	4294209.244	6790	09-Jan-14	ALEX192014A.SSF	403320.645	49411
722069.688	4294209.316	6887	09-Jan-14	ALEX192014A.SSF	403321.6819	49412
722069.635	4294209.39	7301	09-Jan-14	ALEX192014A.SSF	403322.6731	49413
722069.591	4294209.389	7735	09-Jan-14	ALEX192014A.SSF	403323.687	49414
722069.579	4294209.375	7274	09-Jan-14	ALEX192014A.SSF	403324.595	49415
722069.562	4294209.385	8358	09-Jan-14	ALEX192014A.SSF	403325.75	49416
722069.559	4294209.404	7429	09-Jan-14	ALEX192014A.SSF	403326.623	49417
722070.833	4294211.743	7800	09-Jan-14	ALEX192014A.SSF	403460.5759	49418
722070.861	4294211.775	7110	09-Jan-14	ALEX192014A.SSF	403461.6509	49419
722070.898	4294211.783	7987	09-Jan-14	ALEX192014A.SSF	403462.625	49420
722070.889	4294211.767	7277	09-Jan-14	ALEX192014A.SSF	403463.8789	49421
722070.747	4294211.814	7159	09-Jan-14	ALEX192014A.SSF	403464.718	49422
722070.621	4294211.869	6469	09-Jan-14	ALEX192014A.SSF	403465.6321	49423
722070.621	4294211.882	7437	09-Jan-14	ALEX192014A.SSF	403466.606	49424
722070.702	4294211.861	7829	09-Jan-14	ALEX192014A.SSF	403467.5991	49425
722070.818	4294211.898	8737	09-Jan-14	ALEX192014A.SSF	403468.519	49426
722071.039	4294212.505	7614	09-Jan-14	ALEX192014A.SSF	403469.645	49427
722071.236	4294213.433	7183	09-Jan-14	ALEX192014A.SSF	403470.5569	49428
722071.701	4294214.403	7586	09-Jan-14	ALEX192014A.SSF	403471.595	49429
722072.432	4294215.129	6546	09-Jan-14	ALEX192014A.SSF	403472.5181	49430
722073.344	4294216.2	5806	09-Jan-14	ALEX192014A.SSF	403473.6431	49431
722073.835	4294217.234	5951	09-Jan-14	ALEX192014A.SSF	403474.593	49432
722074.321	4294218.092	6010	09-Jan-14	ALEX192014A.SSF	403475.6489	49433
722074.951	4294218.583	5465	09-Jan-14	ALEX192014A.SSF	403476.6189	49434
722075.626	4294219.385	5857	09-Jan-14	ALEX192014A.SSF	403477.686	49435
722075.959	4294220.268	5132	09-Jan-14	ALEX192014A.SSF	403478.605	49436
722076.223	4294221.16	5392	09-Jan-14	ALEX192014A.SSF	403479.6389	49437
722076.636	4294221.75	5275	09-Jan-14	ALEX192014A.SSF	403480.5481	49438
722077.409	4294222.349	5569	09-Jan-14	ALEX192014A.SSF	403481.689	49439
722077.942	4294223.056	5413	09-Jan-14	ALEX192014A.SSF	403482.6169	49440
722078.227	4294224.028	4875	09-Jan-14	ALEX192014A.SSF	403483.665	49441
722078.542	4294224.933	4789	09-Jan-14	ALEX192014A.SSF	403484.593	49442
722079.189	4294225.89	5394	09-Jan-14	ALEX192014A.SSF	403485.6479	49443
722079.732	4294226.582	5464	09-Jan-14	ALEX192014A.SSF	403486.561	49444
722080.352	4294227.409	5136	09-Jan-14	ALEX192014A.SSF	403487.5911	49445
722081.102	4294228.362	5049	09-Jan-14	ALEX192014A.SSF	403488.562	49446
722081.816	4294229.526	4925	09-Jan-14	ALEX192014A.SSF	403489.6011	49447
722082.248	4294230.675	5140	09-Jan-14	ALEX192014A.SSF	403490.5549	49448
722082.818	4294231.934	4691	09-Jan-14	ALEX192014A.SSF	403491.6831	49449
722083.466	4294232.797	4568	09-Jan-14	ALEX192014A.SSF	403492.6079	49450
722084.105	4294233.801	4445	09-Jan-14	ALEX192014A.SSF	403493.646	49451
722084.752	4294234.699	5028	09-Jan-14	ALEX192014A.SSF	403494.5371	49452
722085.729	4294235.514	5543	09-Jan-14	ALEX192014A.SSF	403495.6001	49453
722086.408	4294236.188	5983	09-Jan-14	ALEX192014A.SSF	403496.592	49454
722086.795	4294237.005	5783	09-Jan-14	ALEX192014A.SSF	403497.593	49455

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722087.357	4294237.799	6377	09-Jan-14	ALEX192014A.SSF	403498.594	49456
722088.131	4294238.557	7367	09-Jan-14	ALEX192014A.SSF	403499.6001	49457
722088.689	4294239.228	6911	09-Jan-14	ALEX192014A.SSF	403500.4929	49458
722089.495	4294239.785	6738	09-Jan-14	ALEX192014A.SSF	403501.646	49459
722090.258	4294239.599	7354	09-Jan-14	ALEX192014A.SSF	403502.584	49460
722090.519	4294238.835	6818	09-Jan-14	ALEX192014A.SSF	403503.6001	49461
722089.978	4294237.968	6594	09-Jan-14	ALEX192014A.SSF	403504.561	49462
722089.211	4294237.314	5398	09-Jan-14	ALEX192014A.SSF	403505.5901	49463
722088.917	4294236.977	6044	09-Jan-14	ALEX192014A.SSF	403506.498	49464
722088.527	4294236.363	6196	09-Jan-14	ALEX192014A.SSF	403507.6169	49465
722087.972	4294235.661	6829	09-Jan-14	ALEX192014A.SSF	403508.49	49466
722087.632	4294234.922	6717	09-Jan-14	ALEX192014A.SSF	403509.594	49467
722087.528	4294234.473	5774	09-Jan-14	ALEX192014A.SSF	403510.5769	49468
722087.175	4294233.781	5640	09-Jan-14	ALEX192014A.SSF	403511.6599	49469
722086.688	4294232.981	5820	09-Jan-14	ALEX192014A.SSF	403512.575	49470
722085.84	4294232.2	5223	09-Jan-14	ALEX192014A.SSF	403513.657	49471
722085.182	4294231.444	5683	09-Jan-14	ALEX192014A.SSF	403514.5891	49472
722084.805	4294230.393	5229	09-Jan-14	ALEX192014A.SSF	403515.6069	49473
722084.468	4294229.487	5484	09-Jan-14	ALEX192014A.SSF	403516.5481	49474
722083.822	4294228.657	5289	09-Jan-14	ALEX192014A.SSF	403517.593	49475
722083.21	4294227.939	5173	09-Jan-14	ALEX192014A.SSF	403518.48	49476
722082.63	4294226.839	4964	09-Jan-14	ALEX192014A.SSF	403519.5901	49477
722082.214	4294225.949	5282	09-Jan-14	ALEX192014A.SSF	403520.4619	49478
722081.492	4294224.96	5139	09-Jan-14	ALEX192014A.SSF	403521.595	49479
722080.848	4294224.117	5733	09-Jan-14	ALEX192014A.SSF	403522.4929	49480
722080.172	4294222.713	5707	09-Jan-14	ALEX192014A.SSF	403523.634	49481
722079.786	4294221.659	6105	09-Jan-14	ALEX192014A.SSF	403524.5039	49482
722079.157	4294220.688	6086	09-Jan-14	ALEX192014A.SSF	403525.563	49483
722078.34	4294220.01	5492	09-Jan-14	ALEX192014A.SSF	403526.488	49484
722077.465	4294219.037	5264	09-Jan-14	ALEX192014A.SSF	403527.5991	49485
722077.085	4294218.106	5653	09-Jan-14	ALEX192014A.SSF	403528.4729	49486
722076.709	4294217.034	5910	09-Jan-14	ALEX192014A.SSF	403529.6169	49487
722076.259	4294216.396	6491	09-Jan-14	ALEX192014A.SSF	403530.4771	49488
722075.575	4294215.478	6753	09-Jan-14	ALEX192014A.SSF	403531.5779	49489
722075.187	4294214.641	6458	09-Jan-14	ALEX192014A.SSF	403532.562	49490
722074.868	4294213.952	5334	09-Jan-14	ALEX192014A.SSF	403533.6521	49491
722074.413	4294213.162	5775	09-Jan-14	ALEX192014A.SSF	403534.509	49492
722073.602	4294211.72	6083	09-Jan-14	ALEX192014A.SSF	403535.5391	49493
722072.757	4294210.531	6411	09-Jan-14	ALEX192014A.SSF	403536.511	49494
722072.254	4294209.716	7092	09-Jan-14	ALEX192014A.SSF	403537.5559	49495
722072.21	4294209.117	7023	09-Jan-14	ALEX192014A.SSF	403538.4741	49496
722071.933	4294208.629	7935	09-Jan-14	ALEX192014A.SSF	403539.5569	49497
722071.464	4294208.266	7563	09-Jan-14	ALEX192014A.SSF	403540.542	49498
722071.336	4294207.623	7051	09-Jan-14	ALEX192014A.SSF	403541.573	49499
722071.397	4294207.268	6802	09-Jan-14	ALEX192014A.SSF	403542.4719	49500
722071.617	4294207.639	7250	09-Jan-14	ALEX192014A.SSF	403543.6069	49501
722072.09	4294208.216	6672	09-Jan-14	ALEX192014A.SSF	403544.46	49502

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722072.809	4294209.274	6948	09-Jan-14	ALEX192014A.SSF	403545.6399	49503
722073.077	4294210.245	6867	09-Jan-14	ALEX192014A.SSF	403546.551	49504
722073.451	4294211.234	6726	09-Jan-14	ALEX192014A.SSF	403547.6189	49505
722073.864	4294211.885	5371	09-Jan-14	ALEX192014A.SSF	403548.553	49506
722074.133	4294212.752	5781	09-Jan-14	ALEX192014A.SSF	403549.6689	49507
722074.469	4294213.739	5554	09-Jan-14	ALEX192014A.SSF	403550.5281	49508
722075.302	4294214.853	5832	09-Jan-14	ALEX192014A.SSF	403551.5391	49509
722076.092	4294215.643	6520	09-Jan-14	ALEX192014A.SSF	403552.542	49510
722076.411	4294216.369	6490	09-Jan-14	ALEX192014A.SSF	403553.5559	49511
722076.66	4294217.06	7262	09-Jan-14	ALEX192014A.SSF	403554.448	49512
722077.27	4294217.876	6795	09-Jan-14	ALEX192014A.SSF	403555.6499	49513
722077.711	4294218.508	5748	09-Jan-14	ALEX192014A.SSF	403556.5459	49514
722078.284	4294219.595	6461	09-Jan-14	ALEX192014A.SSF	403557.6399	49515
722078.934	4294220.594	5917	09-Jan-14	ALEX192014A.SSF	403558.5669	49516
722079.711	4294221.765	5908	09-Jan-14	ALEX192014A.SSF	403559.6721	49517
722080.1	4294222.702	5633	09-Jan-14	ALEX192014A.SSF	403560.5259	49518
722080.589	4294223.777	5171	09-Jan-14	ALEX192014A.SSF	403561.6289	49519
722081.136	4294224.457	5729	09-Jan-14	ALEX192014A.SSF	403562.5481	49520
722081.631	4294225.26	5465	09-Jan-14	ALEX192014A.SSF	403563.5959	49521
722081.942	4294226.003	5069	09-Jan-14	ALEX192014A.SSF	403564.5239	49522
722082.508	4294226.817	4801	09-Jan-14	ALEX192014A.SSF	403565.627	49523
722083.13	4294227.625	4785	09-Jan-14	ALEX192014A.SSF	403566.5271	49524
722083.729	4294228.793	4994	09-Jan-14	ALEX192014A.SSF	403567.5549	49525
722084.275	4294229.881	4976	09-Jan-14	ALEX192014A.SSF	403568.5071	49526
722085.204	4294230.91	5132	09-Jan-14	ALEX192014A.SSF	403569.6021	49527
722085.992	4294231.767	4567	09-Jan-14	ALEX192014A.SSF	403570.5349	49528
722086.634	4294232.811	4826	09-Jan-14	ALEX192014A.SSF	403571.6431	49529
722087.15	4294233.441	5280	09-Jan-14	ALEX192014A.SSF	403572.5439	49530
722087.832	4294234.184	5272	09-Jan-14	ALEX192014A.SSF	403573.6221	49531
722088.351	4294235.039	5424	09-Jan-14	ALEX192014A.SSF	403574.574	49532
722088.742	4294235.643	5367	09-Jan-14	ALEX192014A.SSF	403575.5459	49533
722088.91	4294235.761	5981	09-Jan-14	ALEX192014A.SSF	403576.4609	49534
722089.001	4294235.716	6304	09-Jan-14	ALEX192014A.SSF	403577.627	49535
722089.25	4294236.087	7006	09-Jan-14	ALEX192014A.SSF	403578.5449	49536
722089.852	4294237.01	6941	09-Jan-14	ALEX192014A.SSF	403579.564	49537
722090.57	4294238.064	7075	09-Jan-14	ALEX192014A.SSF	403580.5371	49538
722091.647	4294239.043	7019	09-Jan-14	ALEX192014A.SSF	403581.6809	49539
722092.582	4294239.064	7184	09-Jan-14	ALEX192014A.SSF	403582.585	49540
722093.176	4294238.553	7286	09-Jan-14	ALEX192014A.SSF	403583.592	49541
722093.14	4294238.142	7131	09-Jan-14	ALEX192014A.SSF	403584.5891	49542
722092.742	4294237.884	7362	09-Jan-14	ALEX192014A.SSF	403585.53	49543
722092.074	4294237.308	7060	09-Jan-14	ALEX192014A.SSF	403586.533	49544
722091.292	4294236.41	7045	09-Jan-14	ALEX192014A.SSF	403587.542	49545
722090.695	4294235.577	6831	09-Jan-14	ALEX192014A.SSF	403588.509	49546
722090.032	4294234.63	7767	09-Jan-14	ALEX192014A.SSF	403589.5969	49547
722089.292	4294233.88	6082	09-Jan-14	ALEX192014A.SSF	403590.541	49548
722088.662	4294233.119	5235	09-Jan-14	ALEX192014A.SSF	403591.6179	49549

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722088.256	4294232.357	5172	09-Jan-14	ALEX192014A.SSF	403592.522	49550
722087.469	4294231.413	5227	09-Jan-14	ALEX192014A.SSF	403593.627	49551
722086.722	4294230.436	5085	09-Jan-14	ALEX192014A.SSF	403594.554	49552
722086.126	4294229.091	5245	09-Jan-14	ALEX192014A.SSF	403595.6379	49553
722085.632	4294228.068	5073	09-Jan-14	ALEX192014A.SSF	403596.552	49554
722084.856	4294226.968	5171	09-Jan-14	ALEX192014A.SSF	403597.627	49555
722084.33	4294225.828	5068	09-Jan-14	ALEX192014A.SSF	403598.5249	49556
722083.915	4294224.317	5221	09-Jan-14	ALEX192014A.SSF	403599.6399	49557
722083.452	4294223.348	5074	09-Jan-14	ALEX192014A.SSF	403600.5161	49558
722082.661	4294222.215	5876	09-Jan-14	ALEX192014A.SSF	403601.6211	49559
722082.046	4294221.183	6320	09-Jan-14	ALEX192014A.SSF	403602.4971	49560
722081.358	4294219.934	6050	09-Jan-14	ALEX192014A.SSF	403603.541	49561
722080.7	4294218.904	5863	09-Jan-14	ALEX192014A.SSF	403604.551	49562
722080.106	4294218.059	6058	09-Jan-14	ALEX192014A.SSF	403605.5371	49563
722079.729	4294217.253	6727	09-Jan-14	ALEX192014A.SSF	403606.4561	49564
722079.43	4294216.209	6781	09-Jan-14	ALEX192014A.SSF	403607.531	49565
722079.054	4294215.353	7515	09-Jan-14	ALEX192014A.SSF	403608.4661	49566
722078.401	4294214.484	7548	09-Jan-14	ALEX192014A.SSF	403609.582	49567
722077.925	4294213.761	7527	09-Jan-14	ALEX192014A.SSF	403610.5271	49568
722077.548	4294212.752	7942	09-Jan-14	ALEX192014A.SSF	403611.614	49569
722077.063	4294211.816	7415	09-Jan-14	ALEX192014A.SSF	403612.5359	49570
722076.23	4294210.96	6923	09-Jan-14	ALEX192014A.SSF	403613.553	49571
722075.596	4294210.174	6951	09-Jan-14	ALEX192014A.SSF	403614.4719	49572
722075.098	4294208.927	5997	09-Jan-14	ALEX192014A.SSF	403615.5271	49573
722074.643	4294207.797	5924	09-Jan-14	ALEX192014A.SSF	403616.4221	49574
722074.015	4294206.887	5432	09-Jan-14	ALEX192014A.SSF	403617.521	49575
722073.522	4294206.453	5418	09-Jan-14	ALEX192014A.SSF	403618.4351	49576
722073.239	4294205.907	5410	09-Jan-14	ALEX192014A.SSF	403619.5811	49577
722073.306	4294205.734	5443	09-Jan-14	ALEX192014A.SSF	403620.5171	49578
722073.454	4294205.946	5679	09-Jan-14	ALEX192014A.SSF	403621.6211	49579
722073.408	4294206.183	6142	09-Jan-14	ALEX192014A.SSF	403622.4729	49580
722073.16	4294206.266	6635	09-Jan-14	ALEX192014A.SSF	403623.6201	49581
722072.967	4294206.121	5893	09-Jan-14	ALEX192014A.SSF	403624.501	49582
722072.845	4294205.892	5640	09-Jan-14	ALEX192014A.SSF	403625.5691	49583
722072.816	4294205.702	5370	09-Jan-14	ALEX192014A.SSF	403626.4189	49584
722072.682	4294205.595	5465	09-Jan-14	ALEX192014A.SSF	403627.5439	49585
722072.811	4294205.904	4987	09-Jan-14	ALEX192014A.SSF	403628.4231	49586
722073.363	4294207.076	5415	09-Jan-14	ALEX192014A.SSF	403629.5979	49587
722073.734	4294208.082	5716	09-Jan-14	ALEX192014A.SSF	403630.5349	49588
722074.113	4294208.792	5825	09-Jan-14	ALEX192014A.SSF	403631.5371	49589
722074.414	4294209.072	5796	09-Jan-14	ALEX192014A.SSF	403632.511	49590
722074.58	4294208.757	6185	09-Jan-14	ALEX192014A.SSF	403633.614	49591
722074.66	4294208.396	6946	09-Jan-14	ALEX192014A.SSF	403634.4939	49592
722074.893	4294208.477	7736	09-Jan-14	ALEX192014A.SSF	403635.3711	49593
722075.402	4294209.157	6614	09-Jan-14	ALEX192014A.SSF	403636.262	49594
722076.318	4294210.245	7413	09-Jan-14	ALEX192014A.SSF	403637.3301	49595
722077.211	4294211.047	7823	09-Jan-14	ALEX192014A.SSF	403638.2581	49596

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722077.876	4294212.055	6965	09-Jan-14	ALEX192014A.SSF	403639.3711	49597
722078.038	4294213.154	6691	09-Jan-14	ALEX192014A.SSF	403640.4751	49598
722078.257	4294213.961	7042	09-Jan-14	ALEX192014A.SSF	403641.53	49599
722078.678	4294214.737	6830	09-Jan-14	ALEX192014A.SSF	403642.429	49600
722079.227	4294215.8	7077	09-Jan-14	ALEX192014A.SSF	403643.532	49601
722079.522	4294216.44	6749	09-Jan-14	ALEX192014A.SSF	403644.4341	49602
722079.874	4294217.119	7987	09-Jan-14	ALEX192014A.SSF	403645.5239	49603
722080.417	4294218.029	7936	09-Jan-14	ALEX192014A.SSF	403646.5149	49604
722080.962	4294219.198	7444	09-Jan-14	ALEX192014A.SSF	403647.5811	49605
722081.361	4294220.047	6391	09-Jan-14	ALEX192014A.SSF	403648.4951	49606
722082.015	4294220.946	5951	09-Jan-14	ALEX192014A.SSF	403649.563	49607
722082.708	4294221.924	6626	09-Jan-14	ALEX192014A.SSF	403650.4939	49608
722083.381	4294223.195	5796	09-Jan-14	ALEX192014A.SSF	403651.5779	49609
722083.897	4294224.125	5218	09-Jan-14	ALEX192014A.SSF	403652.4619	49610
722084.633	4294225.115	5297	09-Jan-14	ALEX192014A.SSF	403653.543	49611
722085.148	4294225.99	5320	09-Jan-14	ALEX192014A.SSF	403654.4451	49612
722085.557	4294227.058	5220	09-Jan-14	ALEX192014A.SSF	403655.5049	49613
722086.034	4294227.839	4781	09-Jan-14	ALEX192014A.SSF	403656.405	49614
722086.899	4294228.742	5029	09-Jan-14	ALEX192014A.SSF	403657.51	49615
722087.525	4294229.711	4914	09-Jan-14	ALEX192014A.SSF	403658.5161	49616
722088.074	4294230.728	5006	09-Jan-14	ALEX192014A.SSF	403659.5161	49617
722088.64	4294231.494	5366	09-Jan-14	ALEX192014A.SSF	403660.4309	49618
722089.068	4294232.269	5718	09-Jan-14	ALEX192014A.SSF	403661.501	49619
722089.395	4294233.026	5691	09-Jan-14	ALEX192014A.SSF	403662.4609	49620
722090.073	4294234.017	6259	09-Jan-14	ALEX192014A.SSF	403663.574	49621
722090.524	4294234.86	7744	09-Jan-14	ALEX192014A.SSF	403664.4729	49622
722091.097	4294235.751	7606	09-Jan-14	ALEX192014A.SSF	403665.6321	49623
722091.85	4294236.313	7001	09-Jan-14	ALEX192014A.SSF	403666.5471	49624
722092.857	4294236.948	7630	09-Jan-14	ALEX192014A.SSF	403667.5559	49625
722093.672	4294237.299	7727	09-Jan-14	ALEX192014A.SSF	403668.5049	49626
722094.031	4294236.899	7151	09-Jan-14	ALEX192014A.SSF	403669.624	49627
722093.883	4294236.148	7788	09-Jan-14	ALEX192014A.SSF	403670.4819	49628
722093.57	4294235.087	7617	09-Jan-14	ALEX192014A.SSF	403671.6111	49629
722093.143	4294234.267	7874	09-Jan-14	ALEX192014A.SSF	403672.5071	49630
722092.353	4294233.248	6798	09-Jan-14	ALEX192014A.SSF	403673.613	49631
722091.862	4294232.475	7399	09-Jan-14	ALEX192014A.SSF	403674.52	49632
722091.401	4294231.584	7249	09-Jan-14	ALEX192014A.SSF	403675.562	49633
722090.784	4294230.664	6222	09-Jan-14	ALEX192014A.SSF	403676.554	49634
722090.172	4294229.592	5273	09-Jan-14	ALEX192014A.SSF	403677.5481	49635
722089.701	4294228.4	5411	09-Jan-14	ALEX192014A.SSF	403678.5371	49636
722089.032	4294227.293	5421	09-Jan-14	ALEX192014A.SSF	403679.55	49637
722088.166	4294226.496	5247	09-Jan-14	ALEX192014A.SSF	403680.4951	49638
722087.253	4294225.569	4946	09-Jan-14	ALEX192014A.SSF	403681.5801	49639
722086.749	4294224.54	4987	09-Jan-14	ALEX192014A.SSF	403682.4861	49640
722086.186	4294223.162	4860	09-Jan-14	ALEX192014A.SSF	403683.606	49641
722085.625	4294222.265	5568	09-Jan-14	ALEX192014A.SSF	403684.5	49642
722084.989	4294221.48	5720	09-Jan-14	ALEX192014A.SSF	403685.5471	49643

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722084.021	4294219.433	6494	09-Jan-14	ALEX192014A.SSF	403687.561	49645
722083.547	4294218.474	7173	09-Jan-14	ALEX192014A.SSF	403688.4641	49646
722082.676	4294217.465	6863	09-Jan-14	ALEX192014A.SSF	403689.5559	49647
722081.983	4294216.62	6515	09-Jan-14	ALEX192014A.SSF	403690.4309	49648
722081.477	4294215.314	6219	09-Jan-14	ALEX192014A.SSF	403691.541	49649
722081.211	4294214.135	7044	09-Jan-14	ALEX192014A.SSF	403692.5259	49650
722080.812	4294213.15	6891	09-Jan-14	ALEX192014A.SSF	403693.5559	49651
722080.228	4294212.494	7992	09-Jan-14	ALEX192014A.SSF	403694.4839	49652
722079.399	4294211.86	6948	09-Jan-14	ALEX192014A.SSF	403695.54	49653
722078.852	4294211.09	7437	09-Jan-14	ALEX192014A.SSF	403696.5061	49654
722078.638	4294210.038	7439	09-Jan-14	ALEX192014A.SSF	403697.499	49655
722078.522	4294208.932	7620	09-Jan-14	ALEX192014A.SSF	403698.5029	49656
722078.147	4294207.98	7185	09-Jan-14	ALEX192014A.SSF	403699.5869	49657
722077.692	4294207.309	6686	09-Jan-14	ALEX192014A.SSF	403700.502	49658
722077.343	4294206.671	5991	09-Jan-14	ALEX192014A.SSF	403701.542	49659
722077.305	4294206.367	5710	09-Jan-14	ALEX192014A.SSF	403702.4299	49660
722077.102	4294205.943	4839	09-Jan-14	ALEX192014A.SSF	403703.5811	49661
722076.562	4294205.241	5249	09-Jan-14	ALEX192014A.SSF	403704.479	49662
722075.753	4294204.495	6017	09-Jan-14	ALEX192014A.SSF	403705.593	49663
722075.179	4294204.225	5799	09-Jan-14	ALEX192014A.SSF	403706.491	49664
722074.677	4294203.902	6285	09-Jan-14	ALEX192014A.SSF	403707.5991	49665
722074.511	4294203.57	5836	09-Jan-14	ALEX192014A.SSF	403708.4561	49666
722074.612	4294203.067	6208	09-Jan-14	ALEX192014A.SSF	403709.541	49667
722074.859	4294202.796	5962	09-Jan-14	ALEX192014A.SSF	403710.522	49668
722074.965	4294202.857	5813	09-Jan-14	ALEX192014A.SSF	403711.592	49669
722075.131	4294202.948	6215	09-Jan-14	ALEX192014A.SSF	403712.489	49670
722075.721	4294203.465	5765	09-Jan-14	ALEX192014A.SSF	403713.5601	49671
722076.317	4294204.394	6228	09-Jan-14	ALEX192014A.SSF	403714.4861	49672
722076.765	4294205.579	6520	09-Jan-14	ALEX192014A.SSF	403715.627	49673
722076.75	4294206.069	7450	09-Jan-14	ALEX192014A.SSF	403716.4561	49674
722076.76	4294206.42	7142	09-Jan-14	ALEX192014A.SSF	403717.541	49675
722077.056	4294206.932	6885	09-Jan-14	ALEX192014A.SSF	403718.4551	49676
722077.325	4294207.76	6941	09-Jan-14	ALEX192014A.SSF	403719.542	49677
722077.423	4294208.491	7675	09-Jan-14	ALEX192014A.SSF	403720.5239	49678
722077.488	4294209.098	7469	09-Jan-14	ALEX192014A.SSF	403721.6221	49679
722077.74	4294209.426	7657	09-Jan-14	ALEX192014A.SSF	403722.5171	49680
722078.306	4294209.718	7074	09-Jan-14	ALEX192014A.SSF	403723.5459	49681
722078.745	4294210.102	5802	09-Jan-14	ALEX192014A.SSF	403724.53	49682
722079.013	4294210.571	6331	09-Jan-14	ALEX192014A.SSF	403725.5239	49683
722079.325	4294210.901	6412	09-Jan-14	ALEX192014A.SSF	403726.5381	49684
722079.756	4294211.362	7333	09-Jan-14	ALEX192014A.SSF	403727.5381	49685
722080.194	4294212.259	7113	09-Jan-14	ALEX192014A.SSF	403728.5291	49686
722080.543	4294213.306	7148	09-Jan-14	ALEX192014A.SSF	403729.542	49687
722081.056	4294214.291	7997	09-Jan-14	ALEX192014A.SSF	403730.553	49688
722081.756	4294215.334	7699	09-Jan-14	ALEX192014A.SSF	403731.552	49689
722082.203	4294216.3	8104	09-Jan-14	ALEX192014A.SSF	403732.4509	49690

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722082.588	4294217.366	7336	09-Jan-14	ALEX192014A.SSF	403733.554	49691
722083.09	4294218.062	6484	09-Jan-14	ALEX192014A.SSF	403734.4529	49692
722083.817	4294218.962	6001	09-Jan-14	ALEX192014A.SSF	403735.5359	49693
722084.292	4294219.879	6630	09-Jan-14	ALEX192014A.SSF	403736.447	49694
722084.793	4294220.806	7177	09-Jan-14	ALEX192014A.SSF	403737.5601	49695
722085.327	4294221.413	6204	09-Jan-14	ALEX192014A.SSF	403738.4851	49696
722085.874	4294222.297	5701	09-Jan-14	ALEX192014A.SSF	403739.4851	49697
722086.175	4294223.5	5779	09-Jan-14	ALEX192014A.SSF	403740.5081	49698
722086.416	4294224.665	4968	09-Jan-14	ALEX192014A.SSF	403741.5569	49699
722087.03	4294225.531	5352	09-Jan-14	ALEX192014A.SSF	403742.4629	49700
722088.175	4294226.48	4953	09-Jan-14	ALEX192014A.SSF	403743.5649	49701
722088.875	4294227.298	5066	09-Jan-14	ALEX192014A.SSF	403744.448	49702
722089.469	4294228.486	4732	09-Jan-14	ALEX192014A.SSF	403745.5701	49703
722089.973	4294229.325	5249	09-Jan-14	ALEX192014A.SSF	403746.4719	49704
722090.597	4294230.427	5480	09-Jan-14	ALEX192014A.SSF	403747.5681	49705
722091.025	4294231.652	5767	09-Jan-14	ALEX192014A.SSF	403748.5149	49706
722091.573	4294232.876	6169	09-Jan-14	ALEX192014A.SSF	403749.5559	49707
722092.257	4294233.689	7872	09-Jan-14	ALEX192014A.SSF	403750.4771	49708
722092.97	4294234.555	7518	09-Jan-14	ALEX192014A.SSF	403751.5181	49709
722093.541	4294235.345	8479	09-Jan-14	ALEX192014A.SSF	403752.479	49710
722094.317	4294235.598	7789	09-Jan-14	ALEX192014A.SSF	403753.5359	49711
722094.997	4294234.991	7407	09-Jan-14	ALEX192014A.SSF	403754.429	49712
722095.46	4294233.773	7912	09-Jan-14	ALEX192014A.SSF	403755.54	49713
722095.237	4294233.036	7318	09-Jan-14	ALEX192014A.SSF	403756.436	49714
722094.44	4294232.486	8579	09-Jan-14	ALEX192014A.SSF	403757.5061	49715
722093.659	4294231.829	7875	09-Jan-14	ALEX192014A.SSF	403758.481	49716
722092.981	4294230.819	7338	09-Jan-14	ALEX192014A.SSF	403759.571	49717
722092.415	4294230.051	6874	09-Jan-14	ALEX192014A.SSF	403760.4829	49718
722091.603	4294229.132	6248	09-Jan-14	ALEX192014A.SSF	403761.563	49719
722091.031	4294228.101	5522	09-Jan-14	ALEX192014A.SSF	403762.4629	49720
722090.524	4294226.73	5221	09-Jan-14	ALEX192014A.SSF	403763.541	49721
722089.901	4294225.706	4939	09-Jan-14	ALEX192014A.SSF	403764.543	49722
722089.051	4294224.791	5073	09-Jan-14	ALEX192014A.SSF	403765.5859	49723
722088.431	4294223.806	4653	09-Jan-14	ALEX192014A.SSF	403766.5139	49724
722087.903	4294222.48	4777	09-Jan-14	ALEX192014A.SSF	403767.5891	49725
722087.325	4294221.311	5110	09-Jan-14	ALEX192014A.SSF	403768.5359	49726
722086.418	4294220.222	5574	09-Jan-14	ALEX192014A.SSF	403769.5249	49727
722085.501	4294219.275	6000	09-Jan-14	ALEX192014A.SSF	403770.509	49728
722085.024	4294218.216	6097	09-Jan-14	ALEX192014A.SSF	403771.521	49729
722084.793	4294217.132	6354	09-Jan-14	ALEX192014A.SSF	403772.5	49730
722084.253	4294216.227	6148	09-Jan-14	ALEX192014A.SSF	403773.521	49731
722083.402	4294215.47	6100	09-Jan-14	ALEX192014A.SSF	403774.5171	49732
722082.65	4294214.468	6475	09-Jan-14	ALEX192014A.SSF	403775.488	49733
722082.244	4294213.312	7438	09-Jan-14	ALEX192014A.SSF	403776.446	49734
722081.985	4294212.261	6719	09-Jan-14	ALEX192014A.SSF	403777.5359	49735
722081.577	4294211.618	7200	09-Jan-14	ALEX192014A.SSF	403778.446	49736
722080.731	4294210.997	7290	09-Jan-14	ALEX192014A.SSF	403779.5471	49737

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722079.942	4294210.531	7492	09-Jan-14	ALEX192014A.SSF	403780.4199	49738
722078.967	4294209.813	7333	09-Jan-14	ALEX192014A.SSF	403781.5229	49739
722078.211	4294209.18	6723	09-Jan-14	ALEX192014A.SSF	403782.4189	49740
722077.376	4294208.419	7740	09-Jan-14	ALEX192014A.SSF	403783.5281	49741
722076.937	4294207.695	7305	09-Jan-14	ALEX192014A.SSF	403784.4351	49742
722076.776	4294206.58	6926	09-Jan-14	ALEX192014A.SSF	403785.52	49743
722076.721	4294205.654	6081	09-Jan-14	ALEX192014A.SSF	403786.3711	49744
722076.517	4294204.918	5910	09-Jan-14	ALEX192014A.SSF	403787.5081	49745
722076.376	4294204.832	5501	09-Jan-14	ALEX192014A.SSF	403788.387	49746
722076.33	4294204.924	5472	09-Jan-14	ALEX192014A.SSF	403789.531	49747
722076.286	4294204.995	5380	09-Jan-14	ALEX192014A.SSF	403790.4399	49748
722076.135	4294204.892	5291	09-Jan-14	ALEX192014A.SSF	403791.449	49749
722075.93	4294204.359	5639	09-Jan-14	ALEX192014A.SSF	403792.448	49750
722075.946	4294203.614	5647	09-Jan-14	ALEX192014A.SSF	403793.4719	49751
722076.103	4294203.123	5778	09-Jan-14	ALEX192014A.SSF	403794.4519	49752
722075.781	4294203.132	7297	09-Jan-14	ALEX192014A.SSF	403795.5891	49753
722075.594	4294203.701	7614	09-Jan-14	ALEX192014A.SSF	403796.5181	49754
722075.966	4294204.769	7363	09-Jan-14	ALEX192014A.SSF	403797.605	49755
722076.537	4294205.682	6761	09-Jan-14	ALEX192014A.SSF	403798.4519	49756
722077.359	4294206.531	7120	09-Jan-14	ALEX192014A.SSF	403799.5559	49757
722077.901	4294207.056	7300	09-Jan-14	ALEX192014A.SSF	403800.4961	49758
722078.311	4294207.745	7915	09-Jan-14	ALEX192014A.SSF	403801.48	49759
722078.754	4294208.349	7558	09-Jan-14	ALEX192014A.SSF	403802.4431	49760
722079.384	4294208.819	6779	09-Jan-14	ALEX192014A.SSF	403803.489	49761
722079.942	4294209.21	6615	09-Jan-14	ALEX192014A.SSF	403804.405	49762
722080.55	4294209.881	7563	09-Jan-14	ALEX192014A.SSF	403805.512	49763
722080.961	4294210.678	7950	09-Jan-14	ALEX192014A.SSF	403806.4961	49764
722081.297	4294211.249	9067	09-Jan-14	ALEX192014A.SSF	403807.5161	49765
722081.722	4294211.595	7337	09-Jan-14	ALEX192014A.SSF	403808.418	49766
722082.311	4294212.25	7024	09-Jan-14	ALEX192014A.SSF	403809.5181	49767
722082.646	4294213.012	7276	09-Jan-14	ALEX192014A.SSF	403810.4241	49768
722083.072	4294214.017	7069	09-Jan-14	ALEX192014A.SSF	403811.509	49769
722083.823	4294214.914	7197	09-Jan-14	ALEX192014A.SSF	403812.522	49770
722084.674	4294215.823	6629	09-Jan-14	ALEX192014A.SSF	403813.5491	49771
722085.166	4294216.749	5797	09-Jan-14	ALEX192014A.SSF	403814.4231	49772
722085.573	4294217.954	5976	09-Jan-14	ALEX192014A.SSF	403815.4871	49773
722086.041	4294218.86	5686	09-Jan-14	ALEX192014A.SSF	403816.4661	49774
722086.55	4294219.674	5628	09-Jan-14	ALEX192014A.SSF	403817.532	49775
722086.866	4294220.431	5956	09-Jan-14	ALEX192014A.SSF	403818.4529	49776
722087.412	4294221.402	5727	09-Jan-14	ALEX192014A.SSF	403819.5061	49777
722088.341	4294222.345	5914	09-Jan-14	ALEX192014A.SSF	403820.491	49778
722089.3	4294223.393	5674	09-Jan-14	ALEX192014A.SSF	403821.488	49779
722089.91	4294224.636	5171	09-Jan-14	ALEX192014A.SSF	403822.4929	49780
722090.335	4294225.87	5099	09-Jan-14	ALEX192014A.SSF	403823.49	49781
722090.992	4294226.955	5253	09-Jan-14	ALEX192014A.SSF	403824.491	49782
722091.814	4294227.935	6442	09-Jan-14	ALEX192014A.SSF	403825.531	49783
722092.36	4294228.804	6350	09-Jan-14	ALEX192014A.SSF	403826.4131	49784

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722092.907	4294229.902	7227	09-Jan-14	ALEX192014A.SSF	403827.5061	49785
722093.518	4294230.658	7177	09-Jan-14	ALEX192014A.SSF	403828.417	49786
722094.495	4294231.557	8574	09-Jan-14	ALEX192014A.SSF	403829.5049	49787
722095.237	4294232.432	7813	09-Jan-14	ALEX192014A.SSF	403830.4141	49788
722096	4294233.282	6873	09-Jan-14	ALEX192014A.SSF	403831.4961	49789
722096.563	4294233.162	8048	09-Jan-14	ALEX192014A.SSF	403832.4719	49790
722096.862	4294232.183	8132	09-Jan-14	ALEX192014A.SSF	403833.53	49791
722096.764	4294231.216	8626	09-Jan-14	ALEX192014A.SSF	403834.5029	49792
722096.245	4294230.343	6658	09-Jan-14	ALEX192014A.SSF	403835.5129	49793
722095.501	4294229.657	6854	09-Jan-14	ALEX192014A.SSF	403836.416	49794
722094.557	4294228.902	6303	09-Jan-14	ALEX192014A.SSF	403837.49	49795
722093.93	4294227.976	6345	09-Jan-14	ALEX192014A.SSF	403838.4121	49796
722093.351	4294226.383	5456	09-Jan-14	ALEX192014A.SSF	403839.5081	49797
722092.782	4294224.986	5386	09-Jan-14	ALEX192014A.SSF	403840.52	49798
722092.067	4294224.03	5032	09-Jan-14	ALEX192014A.SSF	403841.521	49799
722091.241	4294223.19	4713	09-Jan-14	ALEX192014A.SSF	403842.51	49800
722090.532	4294221.978	5073	09-Jan-14	ALEX192014A.SSF	403843.53	49801
722090.074	4294220.699	5718	09-Jan-14	ALEX192014A.SSF	403844.417	49802
722089.419	4294219.319	5549	09-Jan-14	ALEX192014A.SSF	403845.5149	49803
722088.668	4294218.502	5664	09-Jan-14	ALEX192014A.SSF	403846.436	49804
722087.806	4294217.741	5361	09-Jan-14	ALEX192014A.SSF	403847.5239	49805
722087.331	4294216.979	5505	09-Jan-14	ALEX192014A.SSF	403848.4121	49806
722086.871	4294215.715	5902	09-Jan-14	ALEX192014A.SSF	403849.4951	49807
722086.306	4294214.595	6304	09-Jan-14	ALEX192014A.SSF	403850.4141	49808
722085.419	4294213.485	5956	09-Jan-14	ALEX192014A.SSF	403851.4729	49809
722084.735	4294212.705	7108	09-Jan-14	ALEX192014A.SSF	403852.345	49810
722084.19	4294211.635	7567	09-Jan-14	ALEX192014A.SSF	403853.4629	49811
722083.868	4294210.544	8071	09-Jan-14	ALEX192014A.SSF	403854.446	49812
722083.455	4294209.431	7417	09-Jan-14	ALEX192014A.SSF	403855.5271	49813
722083.047	4294208.685	8394	09-Jan-14	ALEX192014A.SSF	403856.427	49814
722082.558	4294207.916	7828	09-Jan-14	ALEX192014A.SSF	403857.5481	49815
722082.218	4294207.213	8347	09-Jan-14	ALEX192014A.SSF	403858.4319	49816
722081.885	4294206.09	7126	09-Jan-14	ALEX192014A.SSF	403859.532	49817
722081.638	4294205.177	7271	09-Jan-14	ALEX192014A.SSF	403860.4209	49818
722081.191	4294204.27	6888	09-Jan-14	ALEX192014A.SSF	403861.5071	49819
722080.679	4294203.712	7152	09-Jan-14	ALEX192014A.SSF	403862.408	49820
722079.99	4294203.051	8358	09-Jan-14	ALEX192014A.SSF	403863.5139	49821
722079.511	4294202.316	7849	09-Jan-14	ALEX192014A.SSF	403864.4871	49822
722079.067	4294201.449	7902	09-Jan-14	ALEX192014A.SSF	403865.574	49823
722078.844	4294200.788	7765	09-Jan-14	ALEX192014A.SSF	403866.4519	49824
722078.878	4294200.389	6291	09-Jan-14	ALEX192014A.SSF	403867.502	49825
722079.041	4294200.643	7632	09-Jan-14	ALEX192014A.SSF	403868.408	49826
722079.384	4294201.455	7938	09-Jan-14	ALEX192014A.SSF	403869.4871	49827
722079.903	4294202.356	8164	09-Jan-14	ALEX192014A.SSF	403870.3799	49828
722080.65	4294203.694	7981	09-Jan-14	ALEX192014A.SSF	403871.511	49829
722081.11	4294204.639	7065	09-Jan-14	ALEX192014A.SSF	403872.4109	49830
722081.55	4294205.306	7646	09-Jan-14	ALEX192014A.SSF	403873.4519	49831

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722081.834	4294205.515	7821	09-Jan-14	ALEX192014A.SSF	403874.3569	49832
722081.849	4294205.539	7745	09-Jan-14	ALEX192014A.SSF	403875.5181	49833
722081.797	4294205.588	7636	09-Jan-14	ALEX192014A.SSF	403876.4209	49834
722081.802	4294205.638	7429	09-Jan-14	ALEX192014A.SSF	403877.49	49835
722081.826	4294205.649	8547	09-Jan-14	ALEX192014A.SSF	403878.4861	49836
722081.915	4294205.663	8467	09-Jan-14	ALEX192014A.SSF	403879.5659	49837
722081.998	4294205.602	7516	09-Jan-14	ALEX192014A.SSF	403880.4241	49838
722082.109	4294205.483	7039	09-Jan-14	ALEX192014A.SSF	403881.4341	49839
722082.25	4294205.413	7609	09-Jan-14	ALEX192014A.SSF	403882.438	49840
722082.307	4294205.343	7182	09-Jan-14	ALEX192014A.SSF	403883.4341	49841
722082.235	4294205.288	7285	09-Jan-14	ALEX192014A.SSF	403884.4331	49842
722082.137	4294205.273	7791	09-Jan-14	ALEX192014A.SSF	403885.4341	49843
722082.091	4294205.349	8127	09-Jan-14	ALEX192014A.SSF	403886.4121	49844
722082.27	4294205.616	8002	09-Jan-14	ALEX192014A.SSF	403887.498	49845
722082.599	4294206.019	8840	09-Jan-14	ALEX192014A.SSF	403888.385	49846
722082.823	4294206.781	7790	09-Jan-14	ALEX192014A.SSF	403889.4619	49847
722082.874	4294207.426	8155	09-Jan-14	ALEX192014A.SSF	403890.3501	49848
722083.17	4294208.225	7949	09-Jan-14	ALEX192014A.SSF	403891.4919	49849
722083.503	4294209.025	7897	09-Jan-14	ALEX192014A.SSF	403892.3979	49850
722083.937	4294210.187	8184	09-Jan-14	ALEX192014A.SSF	403893.502	49851
722084.527	4294211.22	7806	09-Jan-14	ALEX192014A.SSF	403894.4031	49852
722085.504	4294212.519	7561	09-Jan-14	ALEX192014A.SSF	403895.5391	49853
722086.155	4294213.549	6570	09-Jan-14	ALEX192014A.SSF	403896.406	49854
722086.731	4294214.974	6468	09-Jan-14	ALEX192014A.SSF	403897.5161	49855
722087.132	4294215.985	6417	09-Jan-14	ALEX192014A.SSF	403898.407	49856
722087.77	4294216.995	5751	09-Jan-14	ALEX192014A.SSF	403899.446	49857
722088.428	4294217.931	5830	09-Jan-14	ALEX192014A.SSF	403900.425	49858
722088.928	4294218.998	5604	09-Jan-14	ALEX192014A.SSF	403901.4221	49859
722089.296	4294219.965	6047	09-Jan-14	ALEX192014A.SSF	403902.4109	49860
722089.939	4294220.863	5823	09-Jan-14	ALEX192014A.SSF	403903.425	49861
722090.934	4294221.873	5270	09-Jan-14	ALEX192014A.SSF	403904.4221	49862
722091.848	4294223.001	5394	09-Jan-14	ALEX192014A.SSF	403905.438	49863
722092.408	4294224.188	5164	09-Jan-14	ALEX192014A.SSF	403906.4341	49864
722092.907	4294225.25	5042	09-Jan-14	ALEX192014A.SSF	403907.438	49865
722093.633	4294226.213	5874	09-Jan-14	ALEX192014A.SSF	403908.436	49866
722094.348	4294227.321	6461	09-Jan-14	ALEX192014A.SSF	403909.5229	49867
722094.66	4294228.192	6535	09-Jan-14	ALEX192014A.SSF	403910.429	49868
722095.138	4294228.965	7034	09-Jan-14	ALEX192014A.SSF	403911.5	49869
722095.756	4294229.518	6768	09-Jan-14	ALEX192014A.SSF	403912.364	49870
722096.433	4294230.359	7992	09-Jan-14	ALEX192014A.SSF	403913.407	49871
722096.953	4294231.089	7818	09-Jan-14	ALEX192014A.SSF	403914.3711	49872
722097.621	4294231.128	7444	09-Jan-14	ALEX192014A.SSF	403915.4299	49873
722098.173	4294230.427	7351	09-Jan-14	ALEX192014A.SSF	403916.3611	49874
722098.591	4294229.3	8017	09-Jan-14	ALEX192014A.SSF	403917.5071	49875
722098.399	4294228.651	6984	09-Jan-14	ALEX192014A.SSF	403918.408	49876
722097.583	4294228.101	6816	09-Jan-14	ALEX192014A.SSF	403919.489	49877
722096.953	4294227.539	6654	09-Jan-14	ALEX192014A.SSF	403920.418	49878

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722096.433	4294226.747	7393	09-Jan-14	ALEX192014A.SSF	403921.5061	49879
722095.891	4294226.104	6648	09-Jan-14	ALEX192014A.SSF	403922.4351	49880
722095.334	4294225.188	6123	09-Jan-14	ALEX192014A.SSF	403923.519	49881
722095.019	4294224.272	6180	09-Jan-14	ALEX192014A.SSF	403924.4099	49882
722094.528	4294223.257	5137	09-Jan-14	ALEX192014A.SSF	403925.5081	49883
722093.933	4294222.584	5065	09-Jan-14	ALEX192014A.SSF	403926.3931	49884
722092.937	4294221.712	5024	09-Jan-14	ALEX192014A.SSF	403927.5	49885
722092.194	4294220.728	5196	09-Jan-14	ALEX192014A.SSF	403928.3921	49886
722091.633	4294219.243	5765	09-Jan-14	ALEX192014A.SSF	403929.436	49887
722091.147	4294217.875	5770	09-Jan-14	ALEX192014A.SSF	403930.449	49888
722090.419	4294216.737	5338	09-Jan-14	ALEX192014A.SSF	403931.4399	49889
722089.69	4294215.672	5388	09-Jan-14	ALEX192014A.SSF	403932.3921	49890
722089.224	4294214.354	5025	09-Jan-14	ALEX192014A.SSF	403933.49	49891
722088.957	4294213.315	5902	09-Jan-14	ALEX192014A.SSF	403934.429	49892
722088.486	4294212.422	5648	09-Jan-14	ALEX192014A.SSF	403935.428	49893
722087.777	4294211.717	6513	09-Jan-14	ALEX192014A.SSF	403936.3889	49894
722086.993	4294210.971	7778	09-Jan-14	ALEX192014A.SSF	403937.397	49895
722086.432	4294209.988	6864	09-Jan-14	ALEX192014A.SSF	403938.3921	49896
722085.98	4294208.776	7566	09-Jan-14	ALEX192014A.SSF	403939.406	49897
722085.332	4294207.589	6631	09-Jan-14	ALEX192014A.SSF	403940.478	49898
722084.521	4294206.62	7657	09-Jan-14	ALEX192014A.SSF	403941.541	49899
722083.81	4294205.94	7974	09-Jan-14	ALEX192014A.SSF	403942.425	49900
722082.926	4294205.219	8503	09-Jan-14	ALEX192014A.SSF	403943.519	49901
722082.382	4294204.738	6986	09-Jan-14	ALEX192014A.SSF	403944.3799	49902
722081.981	4294204.214	6456	09-Jan-14	ALEX192014A.SSF	403945.4209	49903
722081.549	4294203.597	7014	09-Jan-14	ALEX192014A.SSF	403946.408	49904
722080.761	4294202.72	7603	09-Jan-14	ALEX192014A.SSF	403947.4929	49905
722080.011	4294201.833	7481	09-Jan-14	ALEX192014A.SSF	403948.405	49906
722079.445	4294200.578	7960	09-Jan-14	ALEX192014A.SSF	403949.4939	49907
722079.395	4294199.583	7930	09-Jan-14	ALEX192014A.SSF	403950.3569	49908
722079.698	4294198.51	7352	09-Jan-14	ALEX192014A.SSF	403951.5081	49909
722080.002	4294197.994	7328	09-Jan-14	ALEX192014A.SSF	403952.394	49910
722080.262	4294197.966	7802	09-Jan-14	ALEX192014A.SSF	403953.5	49911
722080.284	4294198.523	7230	09-Jan-14	ALEX192014A.SSF	403954.4099	49912
722080.35	4294199.619	8347	09-Jan-14	ALEX192014A.SSF	403955.53	49913
722080.766	4294200.444	7097	09-Jan-14	ALEX192014A.SSF	403956.3921	49914
722081.531	4294201.42	8404	09-Jan-14	ALEX192014A.SSF	403957.4951	49915
722081.948	4294202.289	7381	09-Jan-14	ALEX192014A.SSF	403958.3931	49916
722082.395	4294203.366	6915	09-Jan-14	ALEX192014A.SSF	403959.4451	49917
722082.973	4294204.149	6918	09-Jan-14	ALEX192014A.SSF	403960.4551	49918
722083.443	4294204.733	7339	09-Jan-14	ALEX192014A.SSF	403961.5029	49919
722083.746	4294205.389	7535	09-Jan-14	ALEX192014A.SSF	403962.4741	49920
722084.175	4294206.105	7283	09-Jan-14	ALEX192014A.SSF	403963.4431	49921
722084.871	4294206.649	6291	09-Jan-14	ALEX192014A.SSF	403964.4231	49922
722085.648	4294207.183	7542	09-Jan-14	ALEX192014A.SSF	403965.4509	49923
722086.141	4294207.951	8635	09-Jan-14	ALEX192014A.SSF	403966.3401	49924
722086.551	4294209.29	9029	09-Jan-14	ALEX192014A.SSF	403967.4939	49925

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722086.897	4294210.088	8347	09-Jan-14	ALEX192014A.SSF	403968.3479	49926
722087.569	4294210.892	7456	09-Jan-14	ALEX192014A.SSF	403969.4141	49927
722088.111	4294211.78	8404	09-Jan-14	ALEX192014A.SSF	403970.418	49928
722088.548	4294212.773	7681	09-Jan-14	ALEX192014A.SSF	403971.5239	49929
722089.03	4294213.266	7920	09-Jan-14	ALEX192014A.SSF	403972.425	49930
722089.474	4294213.788	6210	09-Jan-14	ALEX192014A.SSF	403973.51	49931
722089.637	4294214.495	7342	09-Jan-14	ALEX192014A.SSF	403974.3979	49932
722089.97	4294215.53	6455	09-Jan-14	ALEX192014A.SSF	403975.52	49933
722090.413	4294216.306	5916	09-Jan-14	ALEX192014A.SSF	403976.4209	49934
722090.94	4294217.353	6215	09-Jan-14	ALEX192014A.SSF	403977.519	49935
722091.373	4294218.259	6563	09-Jan-14	ALEX192014A.SSF	403978.3711	49936
722092.206	4294219.363	5671	09-Jan-14	ALEX192014A.SSF	403979.4629	49937
722092.959	4294220.197	5695	09-Jan-14	ALEX192014A.SSF	403980.3311	49938
722093.623	4294221.385	5063	09-Jan-14	ALEX192014A.SSF	403981.436	49939
722093.993	4294222.343	4910	09-Jan-14	ALEX192014A.SSF	403982.344	49940
722094.742	4294223.368	4704	09-Jan-14	ALEX192014A.SSF	403983.458	49941
722095.503	4294224.204	5024	09-Jan-14	ALEX192014A.SSF	403984.3911	49942
722095.989	4294225.153	5848	09-Jan-14	ALEX192014A.SSF	403985.4299	49943
722096.351	4294225.883	6066	09-Jan-14	ALEX192014A.SSF	403986.3369	49944
722097.022	4294226.53	6518	09-Jan-14	ALEX192014A.SSF	403987.458	49945
722097.396	4294226.946	7479	09-Jan-14	ALEX192014A.SSF	403988.3669	49946
722097.838	4294227.636	6820	09-Jan-14	ALEX192014A.SSF	403989.4751	49947
722098.2	4294228.336	6925	09-Jan-14	ALEX192014A.SSF	403990.332	49948
722098.607	4294228.895	7191	09-Jan-14	ALEX192014A.SSF	403991.3711	49949
722099.009	4294228.781	7317	09-Jan-14	ALEX192014A.SSF	403992.29	49950
722099.25	4294228.392	7439	09-Jan-14	ALEX192014A.SSF	403993.426	49951
722099.258	4294228.305	7200	09-Jan-14	ALEX192014A.SSF	403994.27	49952
722099.283	4294228.424	8430	09-Jan-14	ALEX192014A.SSF	403995.448	49953
722099.322	4294228.546	7987	09-Jan-14	ALEX192014A.SSF	403996.396	49954
722099.351	4294228.632	7966	09-Jan-14	ALEX192014A.SSF	403997.4041	49955
722099.348	4294228.688	7541	09-Jan-14	ALEX192014A.SSF	403998.3291	49956
722099.329	4294228.73	7405	09-Jan-14	ALEX192014A.SSF	403999.426	49957
722099.335	4294228.771	6891	09-Jan-14	ALEX192014A.SSF	404000.3979	49958
722099.357	4294228.823	6912	09-Jan-14	ALEX192014A.SSF	404001.363	49959
722099.361	4294228.867	7698	09-Jan-14	ALEX192014A.SSF	404002.3379	49960
722099.355	4294228.899	7834	09-Jan-14	ALEX192014A.SSF	404003.429	49961
722099.356	4294228.924	8168	09-Jan-14	ALEX192014A.SSF	404004.4141	49962
722099.361	4294228.952	7952	09-Jan-14	ALEX192014A.SSF	404005.4241	49963
722099.369	4294228.984	7538	09-Jan-14	ALEX192014A.SSF	404006.387	49964
722099.36	4294228.972	7314	09-Jan-14	ALEX192014A.SSF	404007.343	49965
722099.35	4294228.86	6898	09-Jan-14	ALEX192014A.SSF	404008.282	49966
722099.377	4294228.781	6884	09-Jan-14	ALEX192014A.SSF	404009.3921	49967
722099.389	4294228.79	7301	09-Jan-14	ALEX192014A.SSF	404010.321	49968
722099.515	4294228.75	7495	09-Jan-14	ALEX192014A.SSF	404011.418	49969
722099.821	4294228.758	6973	09-Jan-14	ALEX192014A.SSF	404012.323	49970
722100.175	4294228.902	6993	09-Jan-14	ALEX192014A.SSF	404013.426	49971
722100.488	4294228.731	7898	09-Jan-14	ALEX192014A.SSF	404014.322	49972

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722100.746	4294227.862	7644	09-Jan-14	ALEX192014A.SSF	404015.426	49973
722100.612	4294227.088	8151	09-Jan-14	ALEX192014A.SSF	404016.3311	49974
722100.122	4294226.398	6777	09-Jan-14	ALEX192014A.SSF	404017.4299	49975
722099.544	4294225.868	6884	09-Jan-14	ALEX192014A.SSF	404018.3621	49976
722099.09	4294225.131	8951	09-Jan-14	ALEX192014A.SSF	404019.4041	49977
722099.007	4294224.428	7157	09-Jan-14	ALEX192014A.SSF	404020.3711	49978
722098.669	4294223.912	7009	09-Jan-14	ALEX192014A.SSF	404021.4141	49979
722098.024	4294223.322	7002	09-Jan-14	ALEX192014A.SSF	404022.354	49980
722097.456	4294222.254	5440	09-Jan-14	ALEX192014A.SSF	404023.4399	49981
722097.024	4294221.38	5197	09-Jan-14	ALEX192014A.SSF	404024.3311	49982
722096.144	4294220.479	5278	09-Jan-14	ALEX192014A.SSF	404025.4231	49983
722095.424	4294219.715	5279	09-Jan-14	ALEX192014A.SSF	404026.324	49984
722094.794	4294218.442	4799	09-Jan-14	ALEX192014A.SSF	404027.4309	49985
722094.312	4294217.334	5145	09-Jan-14	ALEX192014A.SSF	404028.355	49986
722093.632	4294216.429	5901	09-Jan-14	ALEX192014A.SSF	404029.353	49987
722092.914	4294215.711	5727	09-Jan-14	ALEX192014A.SSF	404030.335	49988
722092.388	4294214.65	5643	09-Jan-14	ALEX192014A.SSF	404031.4441	49989
722092.025	4294213.8	5252	09-Jan-14	ALEX192014A.SSF	404032.3491	49990
722091.362	4294212.965	5834	09-Jan-14	ALEX192014A.SSF	404033.458	49991
722090.649	4294212.303	7527	09-Jan-14	ALEX192014A.SSF	404034.355	49992
722089.766	4294211.424	7162	09-Jan-14	ALEX192014A.SSF	404035.425	49993
722089.234	4294210.542	7250	09-Jan-14	ALEX192014A.SSF	404036.3369	49994
722088.877	4294209.335	7782	09-Jan-14	ALEX192014A.SSF	404037.449	49995
722088.63	4294208.478	7165	09-Jan-14	ALEX192014A.SSF	404038.311	49996
722088.048	4294207.646	7491	09-Jan-14	ALEX192014A.SSF	404039.4341	49997
722087.256	4294207.081	7302	09-Jan-14	ALEX192014A.SSF	404040.3491	49998
722086.26	4294206.293	7345	09-Jan-14	ALEX192014A.SSF	404041.4651	49999
722085.741	4294205.669	6726	09-Jan-14	ALEX192014A.SSF	404042.2939	50000
722085.378	4294204.603	7801	09-Jan-14	ALEX192014A.SSF	404043.4141	50001
722085.231	4294203.464	7680	09-Jan-14	ALEX192014A.SSF	404044.323	50002
722084.915	4294202.057	7770	09-Jan-14	ALEX192014A.SSF	404045.448	50003
722084.583	4294201.01	7492	09-Jan-14	ALEX192014A.SSF	404046.374	50004
722084.297	4294200.028	7993	09-Jan-14	ALEX192014A.SSF	404047.417	50005
722083.916	4294199.405	6948	09-Jan-14	ALEX192014A.SSF	404048.3311	50006
722083.067	4294198.73	8787	09-Jan-14	ALEX192014A.SSF	404049.4761	50007
722082.391	4294198.126	8406	09-Jan-14	ALEX192014A.SSF	404050.3469	50008
722081.792	4294197.184	8041	09-Jan-14	ALEX192014A.SSF	404051.4751	50009
722081.615	4294196.374	7560	09-Jan-14	ALEX192014A.SSF	404052.3989	50010
722081.599	4294195.592	7560	09-Jan-14	ALEX192014A.SSF	404053.4089	50011
722081.527	4294195.096	7470	09-Jan-14	ALEX192014A.SSF	404054.345	50012
722081.473	4294194.97	8857	09-Jan-14	ALEX192014A.SSF	404055.3721	50013
722081.583	4294195.242	8634	09-Jan-14	ALEX192014A.SSF	404056.3889	50014
722081.883	4294195.965	8998	09-Jan-14	ALEX192014A.SSF	404057.4109	50015
722082.126	4294196.915	8399	09-Jan-14	ALEX192014A.SSF	404058.3369	50016
722082.328	4294197.86	8400	09-Jan-14	ALEX192014A.SSF	404059.377	50017
722082.841	4294198.541	7680	09-Jan-14	ALEX192014A.SSF	404060.323	50018
722083.627	4294199.339	7080	09-Jan-14	ALEX192014A.SSF	404061.425	50019

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722083.989	4294200.149	6510	09-Jan-14	ALEX192014A.SSF	404062.3391	50020
722084.183	4294201.124	5317	09-Jan-14	ALEX192014A.SSF	404063.4209	50021
722084.478	4294201.734	6178	09-Jan-14	ALEX192014A.SSF	404064.386	50022
722085.083	4294202.267	6464	09-Jan-14	ALEX192014A.SSF	404065.4661	50023
722085.755	4294202.817	7766	09-Jan-14	ALEX192014A.SSF	404066.3679	50024
722086.543	4294203.648	7521	09-Jan-14	ALEX192014A.SSF	404067.3879	50025
722087.169	4294204.896	7700	09-Jan-14	ALEX192014A.SSF	404068.4509	50026
722087.515	4294206.091	6725	09-Jan-14	ALEX192014A.SSF	404069.3889	50027
722087.877	4294207.029	7081	09-Jan-14	ALEX192014A.SSF	404070.335	50028
722088.596	4294207.943	7260	09-Jan-14	ALEX192014A.SSF	404071.387	50029
722089.352	4294208.82	7035	09-Jan-14	ALEX192014A.SSF	404072.335	50030
722089.941	4294209.862	6798	09-Jan-14	ALEX192014A.SSF	404073.3511	50031
722090.306	4294210.87	8479	09-Jan-14	ALEX192014A.SSF	404074.239	50032
722090.99	4294212.14	7220	09-Jan-14	ALEX192014A.SSF	404075.4741	50033
722091.719	4294212.987	6305	09-Jan-14	ALEX192014A.SSF	404076.415	50034
722092.487	4294214.091	5919	09-Jan-14	ALEX192014A.SSF	404077.469	50035
722093.03	4294215.312	6809	09-Jan-14	ALEX192014A.SSF	404078.4661	50036
722093.615	4294216.292	5943	09-Jan-14	ALEX192014A.SSF	404079.521	50037
722094.203	4294216.858	5918	09-Jan-14	ALEX192014A.SSF	404080.3401	50038
722094.963	4294217.719	5804	09-Jan-14	ALEX192014A.SSF	404081.4529	50039
722095.386	4294218.634	4900	09-Jan-14	ALEX192014A.SSF	404082.4031	50040
722095.885	4294219.562	5126	09-Jan-14	ALEX192014A.SSF	404083.408	50041
722096.61	4294220.336	5148	09-Jan-14	ALEX192014A.SSF	404084.342	50042
722097.418	4294221.433	4718	09-Jan-14	ALEX192014A.SSF	404085.446	50043
722097.798	4294222.387	4784	09-Jan-14	ALEX192014A.SSF	404086.363	50044
722098.125	4294222.974	5001	09-Jan-14	ALEX192014A.SSF	404087.4041	50045
722098.417	4294223.181	5633	09-Jan-14	ALEX192014A.SSF	404088.3789	50046
722098.481	4294223.49	5516	09-Jan-14	ALEX192014A.SSF	404089.4131	50047
722098.367	4294223.757	5915	09-Jan-14	ALEX192014A.SSF	404090.293	50048
722098.536	4294224.342	6448	09-Jan-14	ALEX192014A.SSF	404091.3999	50049
722099.081	4294225.086	7162	09-Jan-14	ALEX192014A.SSF	404092.322	50050
722099.708	4294225.9	6350	09-Jan-14	ALEX192014A.SSF	404093.3979	50051
722100.145	4294226.379	6987	09-Jan-14	ALEX192014A.SSF	404094.3149	50052
722101.039	4294226.549	6487	09-Jan-14	ALEX192014A.SSF	404095.3989	50053
722101.931	4294226.22	5522	09-Jan-14	ALEX192014A.SSF	404096.344	50054
722102.313	4294225.26	6069	09-Jan-14	ALEX192014A.SSF	404097.446	50055
722102.243	4294224.52	6017	09-Jan-14	ALEX192014A.SSF	404098.366	50056
722101.927	4294224.033	6062	09-Jan-14	ALEX192014A.SSF	404099.366	50057
722101.376	4294223.468	7605	09-Jan-14	ALEX192014A.SSF	404100.2949	50058
722100.711	4294222.491	6911	09-Jan-14	ALEX192014A.SSF	404101.344	50059
722100.255	4294221.816	6108	09-Jan-14	ALEX192014A.SSF	404102.291	50060
722099.813	4294221.19	6447	09-Jan-14	ALEX192014A.SSF	404103.4009	50061
722099.463	4294220.404	5781	09-Jan-14	ALEX192014A.SSF	404104.3159	50062
722098.941	4294219.569	5067	09-Jan-14	ALEX192014A.SSF	404105.342	50063
722098.253	4294218.909	4822	09-Jan-14	ALEX192014A.SSF	404106.2471	50064
722097.379	4294217.868	4572	09-Jan-14	ALEX192014A.SSF	404107.356	50065
722096.848	4294216.732	4769	09-Jan-14	ALEX192014A.SSF	404108.2649	50066

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722096.269	4294215.427	4835	09-Jan-14	ALEX192014A.SSF	404109.374	50067
722095.625	4294214.665	5517	09-Jan-14	ALEX192014A.SSF	404110.334	50068
722094.841	4294213.934	5586	09-Jan-14	ALEX192014A.SSF	404111.4431	50069
722094.396	4294213.064	6299	09-Jan-14	ALEX192014A.SSF	404112.3621	50070
722094.079	4294211.804	6945	09-Jan-14	ALEX192014A.SSF	404113.415	50071
722093.722	4294210.804	6386	09-Jan-14	ALEX192014A.SSF	404114.3401	50072
722093.018	4294210.009	6636	09-Jan-14	ALEX192014A.SSF	404115.439	50073
722092.301	4294209.468	6969	09-Jan-14	ALEX192014A.SSF	404116.3511	50074
722091.488	4294208.672	7082	09-Jan-14	ALEX192014A.SSF	404117.3411	50075
722090.729	4294207.74	7440	09-Jan-14	ALEX192014A.SSF	404118.303	50076
722090.112	4294206.535	7140	09-Jan-14	ALEX192014A.SSF	404119.3999	50077
722089.798	4294205.377	7575	09-Jan-14	ALEX192014A.SSF	404120.3359	50078
722089.434	4294204.233	7293	09-Jan-14	ALEX192014A.SSF	404121.3491	50079
722088.88	4294203.501	8243	09-Jan-14	ALEX192014A.SSF	404122.354	50080
722088.082	4294203.02	6741	09-Jan-14	ALEX192014A.SSF	404123.3621	50081
722087.287	4294202.577	6605	09-Jan-14	ALEX192014A.SSF	404124.261	50082
722086.358	4294201.792	7321	09-Jan-14	ALEX192014A.SSF	404125.3359	50083
722085.676	4294200.836	7830	09-Jan-14	ALEX192014A.SSF	404126.2361	50084
722085.153	4294199.565	7747	09-Jan-14	ALEX192014A.SSF	404127.4031	50085
722084.976	4294198.653	7007	09-Jan-14	ALEX192014A.SSF	404128.3069	50086
722084.774	4294197.614	7031	09-Jan-14	ALEX192014A.SSF	404129.3931	50087
722084.383	4294196.876	7188	09-Jan-14	ALEX192014A.SSF	404130.333	50088
722083.689	4294196.155	7497	09-Jan-14	ALEX192014A.SSF	404131.343	50089
722082.958	4294195.421	7364	09-Jan-14	ALEX192014A.SSF	404132.2739	50090
722082.336	4294194.498	7871	09-Jan-14	ALEX192014A.SSF	404133.376	50091
722082.162	4294193.753	7277	09-Jan-14	ALEX192014A.SSF	404134.283	50092
722082.571	4294193.229	7129	09-Jan-14	ALEX192014A.SSF	404135.4351	50093
722083.22	4294193.24	7902	09-Jan-14	ALEX192014A.SSF	404136.3879	50094
722083.848	4294193.637	6475	09-Jan-14	ALEX192014A.SSF	404137.4189	50095
722084.312	4294194.253	8129	09-Jan-14	ALEX192014A.SSF	404138.334	50096
722084.802	4294195.131	6682	09-Jan-14	ALEX192014A.SSF	404139.4231	50097
722085.221	4294195.729	6980	09-Jan-14	ALEX192014A.SSF	404140.3511	50098
722085.829	4294196.423	6815	09-Jan-14	ALEX192014A.SSF	404141.396	50099
722086.386	4294197.41	7103	09-Jan-14	ALEX192014A.SSF	404142.3311	50100
722086.678	4294198.691	6846	09-Jan-14	ALEX192014A.SSF	404143.374	50101
722086.778	4294199.584	7171	09-Jan-14	ALEX192014A.SSF	404144.3931	50102
722087.154	4294200.265	7732	09-Jan-14	ALEX192014A.SSF	404145.4141	50103
722087.639	4294200.827	6866	09-Jan-14	ALEX192014A.SSF	404146.3479	50104
722087.985	4294201.355	7608	09-Jan-14	ALEX192014A.SSF	404147.397	50105
722088.147	4294201.757	6642	09-Jan-14	ALEX192014A.SSF	404148.332	50106
722088.433	4294202.291	6610	09-Jan-14	ALEX192014A.SSF	404149.3611	50107
722088.732	4294203.086	7142	09-Jan-14	ALEX192014A.SSF	404150.345	50108
722089.13	4294204.055	7485	09-Jan-14	ALEX192014A.SSF	404151.4099	50109
722089.715	4294204.914	8291	09-Jan-14	ALEX192014A.SSF	404152.4341	50110
722090.241	4294205.632	7683	09-Jan-14	ALEX192014A.SSF	404153.4209	50111
722090.51	4294206.134	7560	09-Jan-14	ALEX192014A.SSF	404154.333	50112
722090.69	4294206.505	6360	09-Jan-14	ALEX192014A.SSF	404155.3379	50113

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722091.174	4294207.096	7920	09-Jan-14	ALEX192014A.SSF	404156.321	50114
722091.794	4294207.98	8400	09-Jan-14	ALEX192014A.SSF	404157.3201	50115
722092.181	4294208.799	7140	09-Jan-14	ALEX192014A.SSF	404158.3411	50116
722092.701	4294209.399	6885	09-Jan-14	ALEX192014A.SSF	404159.3491	50117
722093.342	4294210.199	6041	09-Jan-14	ALEX192014A.SSF	404160.446	50118
722093.827	4294211.321	5955	09-Jan-14	ALEX192014A.SSF	404161.397	50119
722094.295	4294212.293	5953	09-Jan-14	ALEX192014A.SSF	404162.2561	50120
722095.086	4294213.232	6102	09-Jan-14	ALEX192014A.SSF	404163.3701	50121
722095.708	4294214.109	5678	09-Jan-14	ALEX192014A.SSF	404164.2849	50122
722096.082	4294215.17	5294	09-Jan-14	ALEX192014A.SSF	404165.321	50123
722096.418	4294216.074	5377	09-Jan-14	ALEX192014A.SSF	404166.3181	50124
722097.163	4294217.077	5140	09-Jan-14	ALEX192014A.SSF	404167.365	50125
722098.021	4294218.126	5133	09-Jan-14	ALEX192014A.SSF	404168.3049	50126
722098.782	4294219.419	5385	09-Jan-14	ALEX192014A.SSF	404169.3459	50127
722099.226	4294220.584	5609	09-Jan-14	ALEX192014A.SSF	404170.325	50128
722099.616	4294221.416	5517	09-Jan-14	ALEX192014A.SSF	404171.3191	50129
722100.111	4294221.943	6081	09-Jan-14	ALEX192014A.SSF	404172.321	50130
722100.565	4294222.53	6300	09-Jan-14	ALEX192014A.SSF	404173.366	50131
722100.898	4294223.169	7365	09-Jan-14	ALEX192014A.SSF	404174.2781	50132
722101.507	4294224.072	8621	09-Jan-14	ALEX192014A.SSF	404175.4199	50133
722101.895	4294224.835	6535	09-Jan-14	ALEX192014A.SSF	404176.3589	50134
722102.255	4294225.166	6734	09-Jan-14	ALEX192014A.SSF	404177.3799	50135
722102.869	4294224.522	7263	09-Jan-14	ALEX192014A.SSF	404178.3799	50136
722103.424	4294223.567	8835	09-Jan-14	ALEX192014A.SSF	404179.365	50137
722103.583	4294222.891	7158	09-Jan-14	ALEX192014A.SSF	404180.333	50138
722103.314	4294222.35	7069	09-Jan-14	ALEX192014A.SSF	404181.3359	50139
722102.734	4294221.784	6747	09-Jan-14	ALEX192014A.SSF	404182.334	50140
722102.176	4294221.08	6280	09-Jan-14	ALEX192014A.SSF	404183.3391	50141
722101.735	4294220.306	6580	09-Jan-14	ALEX192014A.SSF	404184.3379	50142
722101.148	4294219.596	6805	09-Jan-14	ALEX192014A.SSF	404185.3279	50143
722100.482	4294218.81	5866	09-Jan-14	ALEX192014A.SSF	404186.325	50144
722099.921	4294217.752	5377	09-Jan-14	ALEX192014A.SSF	404187.3679	50145
722099.539	4294216.78	4870	09-Jan-14	ALEX192014A.SSF	404188.259	50146
722098.943	4294215.66	5146	09-Jan-14	ALEX192014A.SSF	404189.3469	50147
722098.221	4294214.773	5362	09-Jan-14	ALEX192014A.SSF	404190.3311	50148
722097.617	4294213.79	5679	09-Jan-14	ALEX192014A.SSF	404191.3611	50149
722097.228	4294212.7	6142	09-Jan-14	ALEX192014A.SSF	404192.322	50150
722096.697	4294211.535	6425	09-Jan-14	ALEX192014A.SSF	404193.356	50151
722095.952	4294210.557	5754	09-Jan-14	ALEX192014A.SSF	404194.3469	50152
722094.998	4294209.623	6289	09-Jan-14	ALEX192014A.SSF	404195.3831	50153
722094.288	4294208.785	6762	09-Jan-14	ALEX192014A.SSF	404196.2339	50154
722093.829	4294207.592	5890	09-Jan-14	ALEX192014A.SSF	404197.3101	50155
722093.634	4294206.45	7233	09-Jan-14	ALEX192014A.SSF	404198.311	50156
722093.223	4294205.47	7988	09-Jan-14	ALEX192014A.SSF	404199.4009	50157
722092.628	4294204.795	7457	09-Jan-14	ALEX192014A.SSF	404200.3359	50158
722092.076	4294204.096	7504	09-Jan-14	ALEX192014A.SSF	404201.3369	50159
722091.769	4294203.406	6976	09-Jan-14	ALEX192014A.SSF	404202.3379	50160

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722091.322	4294202.509	6424	09-Jan-14	ALEX192014A.SSF	404203.439	50161
722090.912	4294201.64	6166	09-Jan-14	ALEX192014A.SSF	404204.354	50162
722090.48	4294200.848	6341	09-Jan-14	ALEX192014A.SSF	404205.343	50163
722089.992	4294200.197	7015	09-Jan-14	ALEX192014A.SSF	404206.2649	50164
722089.556	4294199.249	7124	09-Jan-14	ALEX192014A.SSF	404207.3159	50165
722089.26	4294198.382	6671	09-Jan-14	ALEX192014A.SSF	404208.2939	50166
722088.815	4294197.715	7457	09-Jan-14	ALEX192014A.SSF	404209.3411	50167
722088.224	4294197.215	7954	09-Jan-14	ALEX192014A.SSF	404210.291	50168
722087.293	4294196.574	6728	09-Jan-14	ALEX192014A.SSF	404211.429	50169
722086.634	4294196.042	7472	09-Jan-14	ALEX192014A.SSF	404212.325	50170
722086.124	4294195.181	6668	09-Jan-14	ALEX192014A.SSF	404213.3459	50171
722085.532	4294194.276	8057	09-Jan-14	ALEX192014A.SSF	404214.3569	50172
722084.73	4294193.542	7294	09-Jan-14	ALEX192014A.SSF	404215.3899	50173
722084.105	4294192.946	7643	09-Jan-14	ALEX192014A.SSF	404216.3	50174
722083.701	4294192.221	8331	09-Jan-14	ALEX192014A.SSF	404217.324	50175
722083.674	4294191.322	6852	09-Jan-14	ALEX192014A.SSF	404218.3479	50176
722083.926	4294190.396	7473	09-Jan-14	ALEX192014A.SSF	404219.3569	50177
722084.086	4294189.688	9368	09-Jan-14	ALEX192014A.SSF	404220.3979	50178
722084.187	4294189.59	9032	09-Jan-14	ALEX192014A.SSF	404221.3989	50179
722084.533	4294190.209	7898	09-Jan-14	ALEX192014A.SSF	404222.3491	50180
722085.142	4294191.005	7164	09-Jan-14	ALEX192014A.SSF	404223.364	50181
722085.627	4294191.578	6561	09-Jan-14	ALEX192014A.SSF	404224.271	50182
722085.935	4294192.723	6440	09-Jan-14	ALEX192014A.SSF	404225.417	50183
722086.162	4294193.641	6560	09-Jan-14	ALEX192014A.SSF	404226.3311	50184
722086.701	4294194.372	8210	09-Jan-14	ALEX192014A.SSF	404227.425	50185
722087.325	4294194.861	8322	09-Jan-14	ALEX192014A.SSF	404228.323	50186
722087.958	4294195.601	7270	09-Jan-14	ALEX192014A.SSF	404229.4189	50187
722088.291	4294196.419	7067	09-Jan-14	ALEX192014A.SSF	404230.335	50188
722088.645	4294197.191	7826	09-Jan-14	ALEX192014A.SSF	404231.3269	50189
722089.108	4294197.775	6906	09-Jan-14	ALEX192014A.SSF	404232.314	50190
722089.497	4294198.384	6766	09-Jan-14	ALEX192014A.SSF	404233.418	50191
722089.735	4294199.077	7001	09-Jan-14	ALEX192014A.SSF	404234.3091	50192
722090.28	4294200.159	7150	09-Jan-14	ALEX192014A.SSF	404235.429	50193
722090.82	4294201.027	6527	09-Jan-14	ALEX192014A.SSF	404236.364	50194
722091.195	4294202.017	6701	09-Jan-14	ALEX192014A.SSF	404237.394	50195
722091.425	4294202.764	6655	09-Jan-14	ALEX192014A.SSF	404238.3479	50196
722091.864	4294203.444	6554	09-Jan-14	ALEX192014A.SSF	404239.405	50197
722092.242	4294204.099	7398	09-Jan-14	ALEX192014A.SSF	404240.3049	50198
722092.531	4294204.603	7099	09-Jan-14	ALEX192014A.SSF	404241.3589	50199
722092.809	4294204.968	6904	09-Jan-14	ALEX192014A.SSF	404242.3689	50200
722093.087	4294205.569	8386	09-Jan-14	ALEX192014A.SSF	404243.3779	50201
722093.355	4294206.006	7766	09-Jan-14	ALEX192014A.SSF	404244.3101	50202
722093.534	4294206.185	7101	09-Jan-14	ALEX192014A.SSF	404245.3359	50203
722093.535	4294206.312	6875	09-Jan-14	ALEX192014A.SSF	404246.3621	50204
722093.578	4294206.427	8078	09-Jan-14	ALEX192014A.SSF	404247.3831	50205
722093.669	4294206.539	7899	09-Jan-14	ALEX192014A.SSF	404248.3621	50206
722093.741	4294206.665	7015	09-Jan-14	ALEX192014A.SSF	404249.3789	50207

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722093.754	4294206.716	6403	09-Jan-14	ALEX192014A.SSF	404250.3391	50208
722093.724	4294206.719	6401	09-Jan-14	ALEX192014A.SSF	404251.377	50209
722093.73	4294206.73	7660	09-Jan-14	ALEX192014A.SSF	404252.3411	50210
722093.743	4294206.734	7765	09-Jan-14	ALEX192014A.SSF	404253.363	50211
722093.756	4294206.727	7221	09-Jan-14	ALEX192014A.SSF	404254.252	50212
722093.915	4294206.842	7355	09-Jan-14	ALEX192014A.SSF	404255.343	50213
722094.384	4294207.36	6488	09-Jan-14	ALEX192014A.SSF	404256.355	50214
722094.854	4294208.253	5958	09-Jan-14	ALEX192014A.SSF	404257.364	50215
722095.121	4294209.155	6254	09-Jan-14	ALEX192014A.SSF	404258.2959	50216
722095.602	4294210.082	5720	09-Jan-14	ALEX192014A.SSF	404259.425	50217
722096.192	4294210.754	5730	09-Jan-14	ALEX192014A.SSF	404260.262	50218
722096.943	4294211.733	6208	09-Jan-14	ALEX192014A.SSF	404261.325	50219
722097.343	4294212.763	6292	09-Jan-14	ALEX192014A.SSF	404262.271	50220
722097.77	4294213.645	5479	09-Jan-14	ALEX192014A.SSF	404263.292	50221
722098.36	4294214.382	5174	09-Jan-14	ALEX192014A.SSF	404264.301	50222
722098.957	4294215.466	4463	09-Jan-14	ALEX192014A.SSF	404265.3459	50223
722099.41	4294216.603	4198	09-Jan-14	ALEX192014A.SSF	404266.3191	50224
722100.021	4294217.65	4499	09-Jan-14	ALEX192014A.SSF	404267.395	50225
722100.729	4294218.478	5155	09-Jan-14	ALEX192014A.SSF	404268.302	50226
722101.5	4294219.646	5540	09-Jan-14	ALEX192014A.SSF	404269.394	50227
722101.939	4294220.694	6086	09-Jan-14	ALEX192014A.SSF	404270.2849	50228
722102.505	4294221.59	6981	09-Jan-14	ALEX192014A.SSF	404271.386	50229
722102.868	4294222.025	7565	09-Jan-14	ALEX192014A.SSF	404272.4009	50230
722103.129	4294222.561	6871	09-Jan-14	ALEX192014A.SSF	404273.387	50231
722103.689	4294223.124	7837	09-Jan-14	ALEX192014A.SSF	404274.301	50232
722104.731	4294223.361	6909	09-Jan-14	ALEX192014A.SSF	404275.3511	50233
722105.652	4294223.061	8057	09-Jan-14	ALEX192014A.SSF	404276.2959	50234
722106.031	4294222.406	7894	09-Jan-14	ALEX192014A.SSF	404277.386	50235
722105.661	4294221.779	7373	09-Jan-14	ALEX192014A.SSF	404278.302	50236
722105.18	4294220.933	7243	09-Jan-14	ALEX192014A.SSF	404279.333	50237
722105.017	4294220.246	6641	09-Jan-14	ALEX192014A.SSF	404280.187	50238
722104.576	4294219.472	6880	09-Jan-14	ALEX192014A.SSF	404281.3889	50239
722104.083	4294218.932	6430	09-Jan-14	ALEX192014A.SSF	404282.2241	50240
722103.556	4294217.988	5897	09-Jan-14	ALEX192014A.SSF	404283.2529	50241
722103.037	4294216.988	6152	09-Jan-14	ALEX192014A.SSF	404284.2571	50242
722102.182	4294215.918	5382	09-Jan-14	ALEX192014A.SSF	404285.3081	50243
722101.4	4294214.904	5142	09-Jan-14	ALEX192014A.SSF	404286.239	50244
722100.864	4294213.458	5420	09-Jan-14	ALEX192014A.SSF	404287.3511	50245
722100.483	4294212.315	4931	09-Jan-14	ALEX192014A.SSF	404288.2629	50246
722099.716	4294211.256	4919	09-Jan-14	ALEX192014A.SSF	404289.3149	50247
722098.896	4294210.278	5077	09-Jan-14	ALEX192014A.SSF	404290.3521	50248
722098.396	4294209.125	5390	09-Jan-14	ALEX192014A.SSF	404291.3669	50249
722098.074	4294208.027	5762	09-Jan-14	ALEX192014A.SSF	404292.301	50250
722097.479	4294206.948	6008	09-Jan-14	ALEX192014A.SSF	404293.3511	50251
722096.607	4294206.032	5733	09-Jan-14	ALEX192014A.SSF	404294.3279	50252
722095.669	4294205.093	7579	09-Jan-14	ALEX192014A.SSF	404295.3579	50253
722095.044	4294204.141	6910	09-Jan-14	ALEX192014A.SSF	404296.2971	50254

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722094.631	4294202.972	7148	09-Jan-14	ALEX192014A.SSF	404297.2991	50255
722094.407	4294201.844	6557	09-Jan-14	ALEX192014A.SSF	404298.291	50256
722094.042	4294200.876	7339	09-Jan-14	ALEX192014A.SSF	404299.3459	50257
722093.386	4294200.14	7384	09-Jan-14	ALEX192014A.SSF	404300.272	50258
722092.427	4294199.297	7666	09-Jan-14	ALEX192014A.SSF	404301.3391	50259
722091.804	4294198.41	6716	09-Jan-14	ALEX192014A.SSF	404302.373	50260
722091.478	4294197.459	6389	09-Jan-14	ALEX192014A.SSF	404303.366	50261
722091.118	4294196.726	6907	09-Jan-14	ALEX192014A.SSF	404304.2859	50262
722090.568	4294195.98	7276	09-Jan-14	ALEX192014A.SSF	404305.3181	50263
722090.136	4294195.006	7429	09-Jan-14	ALEX192014A.SSF	404306.3181	50264
722089.783	4294193.922	7647	09-Jan-14	ALEX192014A.SSF	404307.375	50265
722089.386	4294193.148	7342	09-Jan-14	ALEX192014A.SSF	404308.3401	50266
722088.81	4294192.516	7745	09-Jan-14	ALEX192014A.SSF	404309.3091	50267
722087.933	4294191.788	6796	09-Jan-14	ALEX192014A.SSF	404310.363	50268
722086.993	4294191.01	6229	09-Jan-14	ALEX192014A.SSF	404311.365	50269
722086.081	4294190.303	7527	09-Jan-14	ALEX192014A.SSF	404312.3359	50270
722085.162	4294189.627	7552	09-Jan-14	ALEX192014A.SSF	404313.4109	50271
722084.64	4294189.125	7378	09-Jan-14	ALEX192014A.SSF	404314.314	50272
722084.648	4294188.556	7814	09-Jan-14	ALEX192014A.SSF	404315.332	50273
722085.214	4294187.994	7233	09-Jan-14	ALEX192014A.SSF	404316.3279	50274
722085.91	4294187.632	7118	09-Jan-14	ALEX192014A.SSF	404317.3369	50275
722086.603	4294187.725	7329	09-Jan-14	ALEX192014A.SSF	404318.3191	50276
722087.173	4294188.198	7442	09-Jan-14	ALEX192014A.SSF	404319.323	50277
722087.28	4294188.706	6390	09-Jan-14	ALEX192014A.SSF	404320.2959	50278
722087.168	4294188.926	6277	09-Jan-14	ALEX192014A.SSF	404321.3081	50279
722087.284	4294189.35	6639	09-Jan-14	ALEX192014A.SSF	404322.3601	50280
722087.865	4294190.239	6790	09-Jan-14	ALEX192014A.SSF	404323.4131	50281
722088.479	4294191.003	6527	09-Jan-14	ALEX192014A.SSF	404324.3279	50282
722088.886	4294191.874	7241	09-Jan-14	ALEX192014A.SSF	404325.3589	50283
722089.067	4294192.794	7281	09-Jan-14	ALEX192014A.SSF	404326.2749	50284
722089.395	4294193.675	6910	09-Jan-14	ALEX192014A.SSF	404327.3999	50285
722089.75	4294194.164	6917	09-Jan-14	ALEX192014A.SSF	404328.3049	50286
722090.071	4294194.751	7489	09-Jan-14	ALEX192014A.SSF	404329.2939	50287
722090.43	4294195.58	7902	09-Jan-14	ALEX192014A.SSF	404330.333	50288
722091.104	4294196.452	6235	09-Jan-14	ALEX192014A.SSF	404331.3379	50289
722091.824	4294197.156	7229	09-Jan-14	ALEX192014A.SSF	404332.3169	50290
722092.207	4294197.928	6367	09-Jan-14	ALEX192014A.SSF	404333.3259	50291
722092.279	4294198.724	6363	09-Jan-14	ALEX192014A.SSF	404334.3311	50292
722092.254	4294199.155	6503	09-Jan-14	ALEX192014A.SSF	404335.314	50293
722092.325	4294199.56	6575	09-Jan-14	ALEX192014A.SSF	404336.302	50294
722092.889	4294200.257	7194	09-Jan-14	ALEX192014A.SSF	404337.438	50295
722093.27	4294200.685	7018	09-Jan-14	ALEX192014A.SSF	404338.3459	50296
722093.499	4294201.162	6944	09-Jan-14	ALEX192014A.SSF	404339.3469	50297
722094.025	4294201.806	5786	09-Jan-14	ALEX192014A.SSF	404340.2991	50298
722094.528	4294202.333	6699	09-Jan-14	ALEX192014A.SSF	404341.321	50299
722094.685	4294202.907	7855	09-Jan-14	ALEX192014A.SSF	404342.27	50300
722095.139	4294203.877	7123	09-Jan-14	ALEX192014A.SSF	404343.27	50301

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722095.871	4294204.845	8081	09-Jan-14	ALEX192014A.SSF	404344.3181	50302
722096.353	4294205.875	7000	09-Jan-14	ALEX192014A.SSF	404345.3501	50303
722096.723	4294206.708	7150	09-Jan-14	ALEX192014A.SSF	404346.2639	50304
722097.395	4294207.589	6797	09-Jan-14	ALEX192014A.SSF	404347.3831	50305
722097.905	4294208.455	5929	09-Jan-14	ALEX192014A.SSF	404348.3201	50306
722098.332	4294209.352	6080	09-Jan-14	ALEX192014A.SSF	404349.3091	50307
722098.834	4294210.089	6045	09-Jan-14	ALEX192014A.SSF	404350.3259	50308
722099.316	4294210.911	5793	09-Jan-14	ALEX192014A.SSF	404351.3279	50309
722099.675	4294211.872	5253	09-Jan-14	ALEX192014A.SSF	404352.2771	50310
722100.083	4294213.047	4860	09-Jan-14	ALEX192014A.SSF	404353.344	50311
722100.687	4294214.01	4818	09-Jan-14	ALEX192014A.SSF	404354.2571	50312
722101.773	4294215.12	4450	09-Jan-14	ALEX192014A.SSF	404355.3159	50313
722102.719	4294216.241	4918	09-Jan-14	ALEX192014A.SSF	404356.3191	50314
722103.331	4294217.38	5196	09-Jan-14	ALEX192014A.SSF	404357.3081	50315
722103.765	4294218.211	6035	09-Jan-14	ALEX192014A.SSF	404358.3291	50316
722104.02	4294218.686	6208	09-Jan-14	ALEX192014A.SSF	404359.3291	50317
722104.151	4294219.171	7312	09-Jan-14	ALEX192014A.SSF	404360.325	50318
722104.465	4294219.968	7738	09-Jan-14	ALEX192014A.SSF	404361.3679	50319
722105.039	4294220.909	7814	09-Jan-14	ALEX192014A.SSF	404362.3149	50320
722105.919	4294221.39	6933	09-Jan-14	ALEX192014A.SSF	404363.3789	50321
722106.826	4294221.16	7433	09-Jan-14	ALEX192014A.SSF	404364.3311	50322
722107.47	4294220.745	6238	09-Jan-14	ALEX192014A.SSF	404365.3049	50323
722107.361	4294220.376	7499	09-Jan-14	ALEX192014A.SSF	404366.313	50324
722106.854	4294219.834	8205	09-Jan-14	ALEX192014A.SSF	404367.311	50325
722106.553	4294219.12	8801	09-Jan-14	ALEX192014A.SSF	404368.3391	50326
722106.268	4294218.456	7270	09-Jan-14	ALEX192014A.SSF	404369.325	50327
722105.763	4294217.637	5447	09-Jan-14	ALEX192014A.SSF	404370.3149	50328
722105.234	4294216.557	5449	09-Jan-14	ALEX192014A.SSF	404371.387	50329
722104.928	4294215.468	5525	09-Jan-14	ALEX192014A.SSF	404372.3291	50330
722104.497	4294214.369	5658	09-Jan-14	ALEX192014A.SSF	404373.311	50331
722103.679	4294213.294	5380	09-Jan-14	ALEX192014A.SSF	404374.343	50332
722102.881	4294212.274	5216	09-Jan-14	ALEX192014A.SSF	404375.313	50333
722102.368	4294211.099	4869	09-Jan-14	ALEX192014A.SSF	404376.293	50334
722101.949	4294209.84	5033	09-Jan-14	ALEX192014A.SSF	404377.3491	50335
722101.359	4294208.961	5051	09-Jan-14	ALEX192014A.SSF	404378.3181	50336
722100.595	4294208.198	4694	09-Jan-14	ALEX192014A.SSF	404379.302	50337
722099.962	4294207.202	5107	09-Jan-14	ALEX192014A.SSF	404380.3149	50338
722099.52	4294205.892	5363	09-Jan-14	ALEX192014A.SSF	404381.3931	50339
722099.219	4294204.964	6241	09-Jan-14	ALEX192014A.SSF	404382.2629	50340
722098.667	4294204.053	7740	09-Jan-14	ALEX192014A.SSF	404383.3621	50341
722097.883	4294203.275	7485	09-Jan-14	ALEX192014A.SSF	404384.334	50342
722097.081	4294202.478	6581	09-Jan-14	ALEX192014A.SSF	404385.3091	50343
722096.601	4294201.512	6985	09-Jan-14	ALEX192014A.SSF	404386.3091	50344
722096.32	4294200.355	6576	09-Jan-14	ALEX192014A.SSF	404387.269	50345
722095.87	4294199.154	5901	09-Jan-14	ALEX192014A.SSF	404388.2849	50346
722095.19	4294198.305	6049	09-Jan-14	ALEX192014A.SSF	404389.2949	50347
722094.523	4294197.72	6663	09-Jan-14	ALEX192014A.SSF	404390.2781	50348

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722093.922	4294196.968	6825	09-Jan-14	ALEX192014A.SSF	404391.3159	50349
722093.365	4294196.059	6236	09-Jan-14	ALEX192014A.SSF	404392.3059	50350
722092.878	4294195.157	6208	09-Jan-14	ALEX192014A.SSF	404393.3201	50351
722092.407	4294194.31	6532	09-Jan-14	ALEX192014A.SSF	404394.2959	50352
722091.806	4294193.442	6133	09-Jan-14	ALEX192014A.SSF	404395.301	50353
722091.373	4294192.826	6423	09-Jan-14	ALEX192014A.SSF	404396.2109	50354
722091.091	4294192.252	7695	09-Jan-14	ALEX192014A.SSF	404397.252	50355
722090.636	4294191.724	6213	09-Jan-14	ALEX192014A.SSF	404398.251	50356
722089.917	4294190.976	6953	09-Jan-14	ALEX192014A.SSF	404399.25	50357
722089.233	4294189.891	7528	09-Jan-14	ALEX192014A.SSF	404400.322	50358
722088.919	4294188.877	6832	09-Jan-14	ALEX192014A.SSF	404401.3311	50359
722088.951	4294188.023	7168	09-Jan-14	ALEX192014A.SSF	404402.354	50360
722089.105	4294187.378	8302	09-Jan-14	ALEX192014A.SSF	404403.3491	50361
722088.872	4294186.899	7805	09-Jan-14	ALEX192014A.SSF	404404.3301	50362
722088.139	4294186.509	7681	09-Jan-14	ALEX192014A.SSF	404405.3059	50363
722087.547	4294186.042	7410	09-Jan-14	ALEX192014A.SSF	404406.3091	50364
722087.594	4294185.454	7822	09-Jan-14	ALEX192014A.SSF	404407.3069	50365
722087.625	4294185.067	7805	09-Jan-14	ALEX192014A.SSF	404408.293	50366
722087.441	4294185.005	6451	09-Jan-14	ALEX192014A.SSF	404409.2959	50367
722087.422	4294184.973	7005	09-Jan-14	ALEX192014A.SSF	404410.2991	50368
722087.808	4294184.818	7790	09-Jan-14	ALEX192014A.SSF	404411.3811	50369
722088.155	4294184.709	7497	09-Jan-14	ALEX192014A.SSF	404412.2749	50370
722088.357	4294184.937	7574	09-Jan-14	ALEX192014A.SSF	404413.321	50371
722088.606	4294185.459	8223	09-Jan-14	ALEX192014A.SSF	404414.3401	50372
722089.172	4294186.092	7815	09-Jan-14	ALEX192014A.SSF	404415.355	50373
722089.563	4294186.805	7143	09-Jan-14	ALEX192014A.SSF	404416.3259	50374
722089.599	4294187.538	7156	09-Jan-14	ALEX192014A.SSF	404417.2781	50375
722089.806	4294188.307	7759	09-Jan-14	ALEX192014A.SSF	404418.304	50376
722090.349	4294189.051	7189	09-Jan-14	ALEX192014A.SSF	404419.377	50377
722090.703	4294189.656	8817	09-Jan-14	ALEX192014A.SSF	404420.2319	50378
722090.925	4294190.629	7154	09-Jan-14	ALEX192014A.SSF	404421.311	50379
722091.198	4294191.256	7518	09-Jan-14	ALEX192014A.SSF	404422.29	50380
722091.886	4294191.86	6799	09-Jan-14	ALEX192014A.SSF	404423.2991	50381
722092.558	4294192.666	6259	09-Jan-14	ALEX192014A.SSF	404424.2729	50382
722092.949	4294193.69	6575	09-Jan-14	ALEX192014A.SSF	404425.2759	50383
722093.304	4294194.517	7043	09-Jan-14	ALEX192014A.SSF	404426.2739	50384
722093.981	4294195.307	7191	09-Jan-14	ALEX192014A.SSF	404427.3469	50385
722094.503	4294195.953	7317	09-Jan-14	ALEX192014A.SSF	404428.3091	50386
722094.724	4294196.769	6689	09-Jan-14	ALEX192014A.SSF	404429.3391	50387
722094.902	4294197.457	6442	09-Jan-14	ALEX192014A.SSF	404430.29	50388
722095.398	4294197.982	7130	09-Jan-14	ALEX192014A.SSF	404431.3159	50389
722095.882	4294198.394	7212	09-Jan-14	ALEX192014A.SSF	404432.29	50390
722096.118	4294199.164	6693	09-Jan-14	ALEX192014A.SSF	404433.2759	50391
722096.444	4294200.083	7223	09-Jan-14	ALEX192014A.SSF	404434.2671	50392
722097.076	4294201.071	7805	09-Jan-14	ALEX192014A.SSF	404435.314	50393
722097.833	4294202.201	6781	09-Jan-14	ALEX192014A.SSF	404436.323	50394
722098.345	4294203.341	8115	09-Jan-14	ALEX192014A.SSF	404437.2949	50395

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722098.588	4294204.281	6618	09-Jan-14	ALEX192014A.SSF	404438.292	50396
722099.158	4294205.17	6634	09-Jan-14	ALEX192014A.SSF	404439.3149	50397
722100.024	4294206.163	5668	09-Jan-14	ALEX192014A.SSF	404440.3269	50398
722100.658	4294207.291	5235	09-Jan-14	ALEX192014A.SSF	404441.313	50399
722101.08	4294208.413	5015	09-Jan-14	ALEX192014A.SSF	404442.303	50400
722101.679	4294209.39	5356	09-Jan-14	ALEX192014A.SSF	404443.3459	50401
722102.465	4294210.238	4850	09-Jan-14	ALEX192014A.SSF	404444.3191	50402
722103.137	4294211.269	4618	09-Jan-14	ALEX192014A.SSF	404445.3279	50403
722103.517	4294212.344	4630	09-Jan-14	ALEX192014A.SSF	404446.272	50404
722104.11	4294213.381	4607	09-Jan-14	ALEX192014A.SSF	404447.2981	50405
722104.968	4294214.255	5269	09-Jan-14	ALEX192014A.SSF	404448.269	50406
722105.702	4294215.202	5281	09-Jan-14	ALEX192014A.SSF	404449.332	50407
722106.053	4294216.031	5220	09-Jan-14	ALEX192014A.SSF	404450.2891	50408
722106.724	4294216.98	5291	09-Jan-14	ALEX192014A.SSF	404451.365	50409
722107.276	4294217.892	6224	09-Jan-14	ALEX192014A.SSF	404452.302	50410
722107.654	4294218.698	7166	09-Jan-14	ALEX192014A.SSF	404453.353	50411
722108.128	4294219.214	8361	09-Jan-14	ALEX192014A.SSF	404454.25	50412
722108.759	4294219.927	7610	09-Jan-14	ALEX192014A.SSF	404455.3181	50413
722109.095	4294220.123	6672	09-Jan-14	ALEX192014A.SSF	404456.2629	50414
722109.526	4294219.388	6708	09-Jan-14	ALEX192014A.SSF	404457.321	50415
722110.001	4294218.583	8007	09-Jan-14	ALEX192014A.SSF	404458.2991	50416
722110.092	4294218.255	8001	09-Jan-14	ALEX192014A.SSF	404459.291	50417
722110.101	4294218.019	7640	09-Jan-14	ALEX192014A.SSF	404460.332	50418
722110.155	4294217.965	7640	09-Jan-14	ALEX192014A.SSF	404461.3479	50419
722110.176	4294218.169	6410	09-Jan-14	ALEX192014A.SSF	404462.2671	50420
722110.225	4294218.302	5802	09-Jan-14	ALEX192014A.SSF	404463.3989	50421
722110.228	4294218.27	7275	09-Jan-14	ALEX192014A.SSF	404464.2729	50422
722110.225	4294218.249	7788	09-Jan-14	ALEX192014A.SSF	404465.3479	50423
722110.207	4294218.254	7107	09-Jan-14	ALEX192014A.SSF	404466.1941	50424
722110.177	4294218.217	7447	09-Jan-14	ALEX192014A.SSF	404467.314	50425
722110.158	4294218.205	7081	09-Jan-14	ALEX192014A.SSF	404468.157	50426
722110.127	4294218.189	6960	09-Jan-14	ALEX192014A.SSF	404469.282	50427
722110.109	4294218.186	6750	09-Jan-14	ALEX192014A.SSF	404470.293	50428
722110.151	4294218.139	5831	09-Jan-14	ALEX192014A.SSF	404471.3921	50429
722110.211	4294218.043	6821	09-Jan-14	ALEX192014A.SSF	404472.29	50430
722110.126	4294218.059	6895	09-Jan-14	ALEX192014A.SSF	404473.3821	50431
722109.864	4294218.168	6854	09-Jan-14	ALEX192014A.SSF	404474.3521	50432
722109.627	4294218.08	6963	09-Jan-14	ALEX192014A.SSF	404475.3511	50433
722109.451	4294217.622	8820	09-Jan-14	ALEX192014A.SSF	404476.26	50434
722108.987	4294216.962	7305	09-Jan-14	ALEX192014A.SSF	404477.365	50435
722108.43	4294216.364	6386	09-Jan-14	ALEX192014A.SSF	404478.269	50436
722107.776	4294215.294	6936	09-Jan-14	ALEX192014A.SSF	404479.385	50437
722107.212	4294214.547	5364	09-Jan-14	ALEX192014A.SSF	404480.2351	50438
722106.387	4294213.819	5439	09-Jan-14	ALEX192014A.SSF	404481.2681	50439
722105.69	4294212.835	5572	09-Jan-14	ALEX192014A.SSF	404482.2361	50440
722104.973	4294211.699	4904	09-Jan-14	ALEX192014A.SSF	404483.3311	50441
722104.345	4294210.839	4708	09-Jan-14	ALEX192014A.SSF	404484.2119	50442

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722103.711	4294209.688	5056	09-Jan-14	ALEX192014A.SSF	404485.332	50443
722103.478	4294208.514	4869	09-Jan-14	ALEX192014A.SSF	404486.301	50444
722103.14	4294207.427	5071	09-Jan-14	ALEX192014A.SSF	404487.3081	50445
722102.487	4294206.545	4930	09-Jan-14	ALEX192014A.SSF	404488.303	50446
722101.804	4294205.552	4798	09-Jan-14	ALEX192014A.SSF	404489.335	50447
722101.392	4294204.441	4746	09-Jan-14	ALEX192014A.SSF	404490.2671	50448
722100.997	4294203.199	5355	09-Jan-14	ALEX192014A.SSF	404491.3269	50449
722100.465	4294202.233	6192	09-Jan-14	ALEX192014A.SSF	404492.2759	50450
722099.501	4294201.175	6708	09-Jan-14	ALEX192014A.SSF	404493.3469	50451
722098.594	4294200.215	7587	09-Jan-14	ALEX192014A.SSF	404494.3181	50452
722097.997	4294199.016	7416	09-Jan-14	ALEX192014A.SSF	404495.291	50453
722097.746	4294197.645	7044	09-Jan-14	ALEX192014A.SSF	404496.2339	50454
722097.49	4294196.275	6921	09-Jan-14	ALEX192014A.SSF	404497.3259	50455
722097.081	4294195.381	7130	09-Jan-14	ALEX192014A.SSF	404498.2881	50456
722096.538	4294194.519	6942	09-Jan-14	ALEX192014A.SSF	404499.353	50457
722096.128	4294193.647	6835	09-Jan-14	ALEX192014A.SSF	404500.2319	50458
722095.696	4294192.438	6899	09-Jan-14	ALEX192014A.SSF	404501.3269	50459
722095.158	4294191.557	7304	09-Jan-14	ALEX192014A.SSF	404502.2629	50460
722094.215	4294190.761	6956	09-Jan-14	ALEX192014A.SSF	404503.3311	50461
722093.64	4294190.251	5789	09-Jan-14	ALEX192014A.SSF	404504.28	50462
722093.329	4294189.88	6143	09-Jan-14	ALEX192014A.SSF	404505.3359	50463
722092.934	4294189.426	6006	09-Jan-14	ALEX192014A.SSF	404506.2229	50464
722092.399	4294188.51	7277	09-Jan-14	ALEX192014A.SSF	404507.2939	50465
722091.792	4294187.746	7909	09-Jan-14	ALEX192014A.SSF	404508.2871	50466
722090.904	4294187.234	7827	09-Jan-14	ALEX192014A.SSF	404509.2241	50467
722089.783	4294186.733	7597	09-Jan-14	ALEX192014A.SSF	404510.2881	50468
722088.88	4294186.247	6639	09-Jan-14	ALEX192014A.SSF	404511.2849	50469
722088.256	4294185.864	7359	09-Jan-14	ALEX192014A.SSF	404512.2129	50470
722087.976	4294185.384	7330	09-Jan-14	ALEX192014A.SSF	404513.2939	50471
722087.996	4294184.716	7292	09-Jan-14	ALEX192014A.SSF	404514.167	50472
722088.02	4294184.112	7313	09-Jan-14	ALEX192014A.SSF	404515.335	50473
722088.056	4294184.017	8068	09-Jan-14	ALEX192014A.SSF	404516.239	50474
722088.178	4294183.933	7477	09-Jan-14	ALEX192014A.SSF	404517.3279	50475
722088.27	4294183.858	8679	09-Jan-14	ALEX192014A.SSF	404518.2939	50476
722088.335	4294183.821	7869	09-Jan-14	ALEX192014A.SSF	404519.29	50477
722088.38	4294183.794	7907	09-Jan-14	ALEX192014A.SSF	404520.271	50478
722088.432	4294183.768	7556	09-Jan-14	ALEX192014A.SSF	404521.792	50479
722088.453	4294183.779	6239	09-Jan-14	ALEX192014A.SSF	404522.1841	50480
722116.62	4294208.996	5818	09-Jan-14	ALEX192014A.SSF	404855.2229	50481
722116.657	4294208.966	5493	09-Jan-14	ALEX192014A.SSF	404856.1189	50482
722116.669	4294208.948	5467	09-Jan-14	ALEX192014A.SSF	404857.2791	50483
722116.655	4294208.965	5505	09-Jan-14	ALEX192014A.SSF	404858.178	50484
722116.641	4294208.989	5646	09-Jan-14	ALEX192014A.SSF	404859.1021	50485
722116.581	4294208.92	5628	09-Jan-14	ALEX192014A.SSF	404860.0779	50486
722116.358	4294208.937	5303	09-Jan-14	ALEX192014A.SSF	404861.147	50487
722116.196	4294209.069	5435	09-Jan-14	ALEX192014A.SSF	404862.061	50488
722116.212	4294209.095	5510	09-Jan-14	ALEX192014A.SSF	404863.165	50489

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722116.248	4294209.048	5402	09-Jan-14	ALEX192014A.SSF	404864.0659	50490
722116.27	4294209.207	5243	09-Jan-14	ALEX192014A.SSF	404865.293	50491
722116.344	4294209.101	5222	09-Jan-14	ALEX192014A.SSF	404866.0801	50492
722115.976	4294208.502	4910	09-Jan-14	ALEX192014A.SSF	404867.2439	50493
722115.36	4294207.759	5041	09-Jan-14	ALEX192014A.SSF	404868.061	50494
722114.506	4294206.59	4786	09-Jan-14	ALEX192014A.SSF	404869.0879	50495
722113.562	4294205.798	4657	09-Jan-14	ALEX192014A.SSF	404870.061	50496
722112.385	4294205.142	4764	09-Jan-14	ALEX192014A.SSF	404871.0879	50497
722111.447	4294204.317	4600	09-Jan-14	ALEX192014A.SSF	404872.043	50498
722110.594	4294203.032	4792	09-Jan-14	ALEX192014A.SSF	404873.2881	50499
722110.047	4294202.329	4856	09-Jan-14	ALEX192014A.SSF	404874.0391	50500
722108.771	4294201.408	5214	09-Jan-14	ALEX192014A.SSF	404875.228	50501
722107.703	4294200.871	5130	09-Jan-14	ALEX192014A.SSF	404876.1021	50502
722106.507	4294200.09	4760	09-Jan-14	ALEX192014A.SSF	404877.2371	50503
722105.732	4294199.086	5663	09-Jan-14	ALEX192014A.SSF	404878.155	50504
722105.082	4294197.734	6418	09-Jan-14	ALEX192014A.SSF	404879.2371	50505
722104.617	4294196.842	6396	09-Jan-14	ALEX192014A.SSF	404880.1001	50506
722103.845	4294196.106	6759	09-Jan-14	ALEX192014A.SSF	404881.1299	50507
722103.017	4294195.644	6609	09-Jan-14	ALEX192014A.SSF	404881.988	50508
722101.748	4294194.963	6362	09-Jan-14	ALEX192014A.SSF	404883.238	50509
722101.065	4294194.384	6690	09-Jan-14	ALEX192014A.SSF	404884.05	50510
722100.332	4294193.451	6412	09-Jan-14	ALEX192014A.SSF	404885.2351	50511
722099.821	4294192.882	6973	09-Jan-14	ALEX192014A.SSF	404886.072	50512
722098.816	4294192.451	7683	09-Jan-14	ALEX192014A.SSF	404887.1289	50513
722097.659	4294192.074	6720	09-Jan-14	ALEX192014A.SSF	404888.1521	50514
722096.588	4294191.382	7380	09-Jan-14	ALEX192014A.SSF	404889.3259	50515
722095.995	4294190.767	7305	09-Jan-14	ALEX192014A.SSF	404890.0659	50516
722095.18	4294189.716	6836	09-Jan-14	ALEX192014A.SSF	404891.1279	50517
722094.535	4294189.017	6148	09-Jan-14	ALEX192014A.SSF	404892.0769	50518
722093.61	4294188.373	6307	09-Jan-14	ALEX192014A.SSF	404893.1499	50519
722092.82	4294187.859	7096	09-Jan-14	ALEX192014A.SSF	404894.115	50520
722092.089	4294187.198	7774	09-Jan-14	ALEX192014A.SSF	404895.303	50521
722091.587	4294186.871	7673	09-Jan-14	ALEX192014A.SSF	404896.0669	50522
722090.487	4294186.782	7078	09-Jan-14	ALEX192014A.SSF	404897.291	50523
722089.652	4294186.6	6929	09-Jan-14	ALEX192014A.SSF	404898.1421	50524
722088.868	4294185.915	8182	09-Jan-14	ALEX192014A.SSF	404899.2	50525
722088.466	4294185.379	7775	09-Jan-14	ALEX192014A.SSF	404900.073	50526
722088.115	4294184.942	7373	09-Jan-14	ALEX192014A.SSF	404901.2041	50527
722088.148	4294185.216	6913	09-Jan-14	ALEX192014A.SSF	404902.0649	50528
722088.308	4294186.212	8178	09-Jan-14	ALEX192014A.SSF	404903.084	50529
722088.31	4294186.917	7384	09-Jan-14	ALEX192014A.SSF	404904.0239	50530
722088.559	4294187.043	7426	09-Jan-14	ALEX192014A.SSF	404905.1221	50531
722088.791	4294186.921	8876	09-Jan-14	ALEX192014A.SSF	404906.0569	50532
722088.914	4294186.975	8099	09-Jan-14	ALEX192014A.SSF	404907.21	50533
722089.142	4294187.196	8835	09-Jan-14	ALEX192014A.SSF	404908.113	50534
722089.563	4294187.343	8268	09-Jan-14	ALEX192014A.SSF	404909.054	50535
722089.974	4294187.805	8127	09-Jan-14	ALEX192014A.SSF	404910.104	50536

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722090.64	4294188.565	7671	09-Jan-14	ALEX192014A.SSF	404911.2351	50537
722091.26	4294189.154	6718	09-Jan-14	ALEX192014A.SSF	404912.209	50538
722091.805	4294189.887	7139	09-Jan-14	ALEX192014A.SSF	404913.2419	50539
722092.259	4294190.468	7605	09-Jan-14	ALEX192014A.SSF	404914.1069	50540
722093.036	4294191.062	6401	09-Jan-14	ALEX192014A.SSF	404915.126	50541
722093.678	4294191.501	6430	09-Jan-14	ALEX192014A.SSF	404916.0371	50542
722094.229	4294191.999	6647	09-Jan-14	ALEX192014A.SSF	404917.073	50543
722094.818	4294192.463	7163	09-Jan-14	ALEX192014A.SSF	404918.0359	50544
722095.756	4294192.968	7600	09-Jan-14	ALEX192014A.SSF	404919.1389	50545
722096.599	4294193.519	5500	09-Jan-14	ALEX192014A.SSF	404920.0759	50546
722097.148	4294194.231	6367	09-Jan-14	ALEX192014A.SSF	404921.1299	50547
722097.709	4294194.682	6062	09-Jan-14	ALEX192014A.SSF	404922.0701	50548
722098.658	4294195.054	6255	09-Jan-14	ALEX192014A.SSF	404923.1609	50549
722099.352	4294195.442	6153	09-Jan-14	ALEX192014A.SSF	404924.1221	50550
722100.049	4294196.387	6338	09-Jan-14	ALEX192014A.SSF	404925.314	50551
722100.539	4294197.146	6262	09-Jan-14	ALEX192014A.SSF	404926.126	50552
722101.257	4294197.888	7985	09-Jan-14	ALEX192014A.SSF	404927.25	50553
722101.886	4294198.203	7186	09-Jan-14	ALEX192014A.SSF	404928.1011	50554
722102.649	4294198.631	6176	09-Jan-14	ALEX192014A.SSF	404929.1899	50555
722103.177	4294199.267	7544	09-Jan-14	ALEX192014A.SSF	404930.105	50556
722103.641	4294200.156	6476	09-Jan-14	ALEX192014A.SSF	404931.135	50557
722104.107	4294200.805	6899	09-Jan-14	ALEX192014A.SSF	404932.074	50558
722104.876	4294201.447	6164	09-Jan-14	ALEX192014A.SSF	404933.134	50559
722105.589	4294202.043	4741	09-Jan-14	ALEX192014A.SSF	404934.0349	50560
722106.235	4294203.172	4759	09-Jan-14	ALEX192014A.SSF	404935.3069	50561
722106.704	4294203.859	5130	09-Jan-14	ALEX192014A.SSF	404936.134	50562
722107.504	4294204.564	5015	09-Jan-14	ALEX192014A.SSF	404937.1311	50563
722108.413	4294205.275	4793	09-Jan-14	ALEX192014A.SSF	404938.1499	50564
722109.173	4294206.27	5118	09-Jan-14	ALEX192014A.SSF	404939.1499	50565
722109.811	4294207.178	4874	09-Jan-14	ALEX192014A.SSF	404940.0779	50566
722110.787	4294207.921	5269	09-Jan-14	ALEX192014A.SSF	404941.0891	50567
722111.893	4294208.513	5701	09-Jan-14	ALEX192014A.SSF	404942.127	50568
722112.648	4294209.138	5269	09-Jan-14	ALEX192014A.SSF	404943.1211	50569
722113.044	4294209.647	5829	09-Jan-14	ALEX192014A.SSF	404943.988	50570
722114.007	4294210.078	5933	09-Jan-14	ALEX192014A.SSF	404945.1489	50571
722114.934	4294210.47	6217	09-Jan-14	ALEX192014A.SSF	404946.1221	50572
722115.39	4294211.13	6504	09-Jan-14	ALEX192014A.SSF	404947.2791	50573
722115.464	4294211.624	5466	09-Jan-14	ALEX192014A.SSF	404948.012	50574
722115.02	4294212.097	5639	09-Jan-14	ALEX192014A.SSF	404949.1941	50575
722114.486	4294211.744	5647	09-Jan-14	ALEX192014A.SSF	404950.208	50576
722113.769	4294210.974	5569	09-Jan-14	ALEX192014A.SSF	404951.2749	50577
722113.137	4294210.478	5292	09-Jan-14	ALEX192014A.SSF	404951.96	50578
722112.062	4294209.791	5639	09-Jan-14	ALEX192014A.SSF	404953.104	50579
722111.307	4294209.101	5737	09-Jan-14	ALEX192014A.SSF	404954.094	50580
722110.429	4294208.187	4997	09-Jan-14	ALEX192014A.SSF	404955.301	50581
722109.684	4294207.636	4521	09-Jan-14	ALEX192014A.SSF	404956.147	50582
722108.559	4294206.88	4688	09-Jan-14	ALEX192014A.SSF	404957.3501	50583

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722107.999	4294206.261	4947	09-Jan-14	ALEX192014A.SSF	404958.0969	50584
722107.52	4294205.202	5085	09-Jan-14	ALEX192014A.SSF	404959.1379	50585
722106.979	4294204.35	5328	09-Jan-14	ALEX192014A.SSF	404960.074	50586
722106.106	4294203.704	5089	09-Jan-14	ALEX192014A.SSF	404961.124	50587
722105.347	4294203.168	5045	09-Jan-14	ALEX192014A.SSF	404962.085	50588
722104.697	4294202.227	5155	09-Jan-14	ALEX192014A.SSF	404963.168	50589
722104.168	4294201.284	5900	09-Jan-14	ALEX192014A.SSF	404964.1421	50590
722103.465	4294200.398	6817	09-Jan-14	ALEX192014A.SSF	404965.209	50591
722102.814	4294199.825	7434	09-Jan-14	ALEX192014A.SSF	404966.0779	50592
722101.927	4294199.276	6718	09-Jan-14	ALEX192014A.SSF	404967.0969	50593
722101.122	4294198.545	7499	09-Jan-14	ALEX192014A.SSF	404968.085	50594
722100.546	4294197.497	7365	09-Jan-14	ALEX192014A.SSF	404969.1169	50595
722100.104	4294196.654	6971	09-Jan-14	ALEX192014A.SSF	404970.0769	50596
722099.405	4294195.99	7592	09-Jan-14	ALEX192014A.SSF	404971.106	50597
722098.572	4294195.481	7178	09-Jan-14	ALEX192014A.SSF	404972.002	50598
722097.699	4294194.83	8094	09-Jan-14	ALEX192014A.SSF	404973.0391	50599
722097.172	4294193.902	7003	09-Jan-14	ALEX192014A.SSF	404974.0139	50600
722096.652	4294192.948	7631	09-Jan-14	ALEX192014A.SSF	404975.0649	50601
722095.901	4294192.35	6557	09-Jan-14	ALEX192014A.SSF	404976.01	50602
722094.871	4294191.557	5779	09-Jan-14	ALEX192014A.SSF	404977.2581	50603
722094.252	4294190.816	5943	09-Jan-14	ALEX192014A.SSF	404978.1721	50604
722093.824	4294190.19	6158	09-Jan-14	ALEX192014A.SSF	404979.031	50605
722093.098	4294189.608	5679	09-Jan-14	ALEX192014A.SSF	404980.144	50606
722092.294	4294189.065	5880	09-Jan-14	ALEX192014A.SSF	404981.106	50607
722091.602	4294188.586	6720	09-Jan-14	ALEX192014A.SSF	404982.104	50608
722091.368	4294189.069	6930	09-Jan-14	ALEX192014A.SSF	404983.291	50609
722091.449	4294189.666	7792	09-Jan-14	ALEX192014A.SSF	404984.009	50610
722091.716	4294189.93	7678	09-Jan-14	ALEX192014A.SSF	404985.2549	50611
722092.004	4294189.974	6329	09-Jan-14	ALEX192014A.SSF	404986.0959	50612
722092.51	4294190.326	6532	09-Jan-14	ALEX192014A.SSF	404987.2251	50613
722093.02	4294191.003	6403	09-Jan-14	ALEX192014A.SSF	404988.0859	50614
722094.209	4294192.018	6820	09-Jan-14	ALEX192014A.SSF	404989.22	50615
722095.028	4294192.549	7585	09-Jan-14	ALEX192014A.SSF	404990.127	50616
722095.635	4294193.03	7896	09-Jan-14	ALEX192014A.SSF	404991.2361	50617
722096.14	4294193.495	7104	09-Jan-14	ALEX192014A.SSF	404992.092	50618
722096.761	4294194.163	6276	09-Jan-14	ALEX192014A.SSF	404993.0879	50619
722097.196	4294194.811	5859	09-Jan-14	ALEX192014A.SSF	404994.134	50620
722097.929	4294195.564	6712	09-Jan-14	ALEX192014A.SSF	404995.2781	50621
722098.552	4294196.136	6358	09-Jan-14	ALEX192014A.SSF	404996.1721	50622
722099.177	4294196.851	6629	09-Jan-14	ALEX192014A.SSF	404997.2661	50623
722099.521	4294197.387	6667	09-Jan-14	ALEX192014A.SSF	404998.0281	50624
722099.976	4294198.135	7066	09-Jan-14	ALEX192014A.SSF	404999.1299	50625
722100.504	4294198.953	6893	09-Jan-14	ALEX192014A.SSF	405000.054	50626
722101.21	4294199.906	6396	09-Jan-14	ALEX192014A.SSF	405001.251	50627
722101.563	4294200.484	6249	09-Jan-14	ALEX192014A.SSF	405002.0471	50628
722101.789	4294201.288	7802	09-Jan-14	ALEX192014A.SSF	405003.2209	50629
722102.101	4294201.829	8400	09-Jan-14	ALEX192014A.SSF	405004.0959	50630

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722102.893	4294202.471	7050	09-Jan-14	ALEX192014A.SSF	405005.106	50631
722103.597	4294203.071	5692	09-Jan-14	ALEX192014A.SSF	405006.0681	50632
722104.052	4294204.007	5579	09-Jan-14	ALEX192014A.SSF	405007.0901	50633
722104.664	4294204.852	4946	09-Jan-14	ALEX192014A.SSF	405008.064	50634
722105.697	4294205.436	5257	09-Jan-14	ALEX192014A.SSF	405009.1279	50635
722106.66	4294206.131	5019	09-Jan-14	ALEX192014A.SSF	405010.0691	50636
722107.343	4294207.375	4758	09-Jan-14	ALEX192014A.SSF	405011.1021	50637
722107.806	4294208.389	4964	09-Jan-14	ALEX192014A.SSF	405012.033	50638
722108.724	4294209.234	5132	09-Jan-14	ALEX192014A.SSF	405013.1279	50639
722109.577	4294209.84	4859	09-Jan-14	ALEX192014A.SSF	405014.0239	50640
722110.513	4294211.227	5126	09-Jan-14	ALEX192014A.SSF	405015.3159	50641
722110.925	4294211.947	5276	09-Jan-14	ALEX192014A.SSF	405016.0591	50642
722111.78	4294212.651	5375	09-Jan-14	ALEX192014A.SSF	405017.127	50643
722112.756	4294213.286	5476	09-Jan-14	ALEX192014A.SSF	405018.135	50644
722113.33	4294214.06	5465	09-Jan-14	ALEX192014A.SSF	405019.1541	50645
722113.544	4294214.669	5526	09-Jan-14	ALEX192014A.SSF	405020.041	50646
722113.303	4294215.177	5928	09-Jan-14	ALEX192014A.SSF	405021.093	50647
722112.713	4294215.07	5823	09-Jan-14	ALEX192014A.SSF	405022.0391	50648
722112.092	4294213.915	5735	09-Jan-14	ALEX192014A.SSF	405023.134	50649
722111.774	4294212.835	6231	09-Jan-14	ALEX192014A.SSF	405024.009	50650
722111.029	4294211.955	6087	09-Jan-14	ALEX192014A.SSF	405025.072	50651
722110.267	4294211.286	6108	09-Jan-14	ALEX192014A.SSF	405026.0029	50652
722109.64	4294210.288	5425	09-Jan-14	ALEX192014A.SSF	405027.1931	50653
722109.097	4294209.655	5527	09-Jan-14	ALEX192014A.SSF	405028.032	50654
722108.326	4294209.067	5463	09-Jan-14	ALEX192014A.SSF	405029	50655
722107.536	4294208.012	5391	09-Jan-14	ALEX192014A.SSF	405030.0581	50656
722106.814	4294206.916	4870	09-Jan-14	ALEX192014A.SSF	405031.0681	50657
722105.947	4294206.12	4936	09-Jan-14	ALEX192014A.SSF	405032.02	50658
722104.917	4294205.455	5222	09-Jan-14	ALEX192014A.SSF	405033.103	50659
722104.274	4294204.703	4812	09-Jan-14	ALEX192014A.SSF	405034.0229	50660
722103.646	4294203.562	5122	09-Jan-14	ALEX192014A.SSF	405035.0901	50661
722102.933	4294202.52	6263	09-Jan-14	ALEX192014A.SSF	405036.1389	50662
722102.064	4294201.743	7086	09-Jan-14	ALEX192014A.SSF	405037.0979	50663
722101.083	4294201.152	5731	09-Jan-14	ALEX192014A.SSF	405038.032	50664
722100.255	4294200.25	7159	09-Jan-14	ALEX192014A.SSF	405039.1011	50665
722099.823	4294199.186	6769	09-Jan-14	ALEX192014A.SSF	405040.0259	50666
722099.336	4294197.859	6552	09-Jan-14	ALEX192014A.SSF	405041.083	50667
722098.819	4294196.789	6498	09-Jan-14	ALEX192014A.SSF	405042.022	50668
722098	4294195.845	6094	09-Jan-14	ALEX192014A.SSF	405043.0769	50669
722097.176	4294195.098	6080	09-Jan-14	ALEX192014A.SSF	405044.053	50670
722096.406	4294193.975	7250	09-Jan-14	ALEX192014A.SSF	405045.116	50671
722095.962	4294192.904	7092	09-Jan-14	ALEX192014A.SSF	405045.9929	50672
722095.389	4294191.822	6963	09-Jan-14	ALEX192014A.SSF	405047.1021	50673
722094.558	4294190.993	7110	09-Jan-14	ALEX192014A.SSF	405048.0049	50674
722093.643	4294190.249	7087	09-Jan-14	ALEX192014A.SSF	405049.0911	50675
722093.184	4294189.633	6302	09-Jan-14	ALEX192014A.SSF	405049.9729	50676
722092.282	4294188.511	6165	09-Jan-14	ALEX192014A.SSF	405051.29	50677

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722091.798	4294187.933	7031	09-Jan-14	ALEX192014A.SSF	405051.9641	50678
722091.377	4294186.943	6798	09-Jan-14	ALEX192014A.SSF	405053.095	50679
722090.958	4294186.384	6649	09-Jan-14	ALEX192014A.SSF	405054.0879	50680
722090.361	4294186.265	7512	09-Jan-14	ALEX192014A.SSF	405055.0391	50681
722089.634	4294186.912	8328	09-Jan-14	ALEX192014A.SSF	405056.0581	50682
722089.193	4294188.182	6942	09-Jan-14	ALEX192014A.SSF	405057.1321	50683
722089.316	4294188.899	7945	09-Jan-14	ALEX192014A.SSF	405058.1111	50684
722089.692	4294189.341	7416	09-Jan-14	ALEX192014A.SSF	405059.134	50685
722090.174	4294189.928	6804	09-Jan-14	ALEX192014A.SSF	405060.0601	50686
722090.624	4294190.865	6051	09-Jan-14	ALEX192014A.SSF	405061.1121	50687
722091.031	4294191.408	6979	09-Jan-14	ALEX192014A.SSF	405062.054	50688
722091.514	4294191.785	6664	09-Jan-14	ALEX192014A.SSF	405063.0349	50689
722092.124	4294192.852	6616	09-Jan-14	ALEX192014A.SSF	405064.135	50690
722092.499	4294193.809	7144	09-Jan-14	ALEX192014A.SSF	405065.0569	50691
722092.894	4294194.508	7306	09-Jan-14	ALEX192014A.SSF	405066.0039	50692
722093.639	4294194.994	6926	09-Jan-14	ALEX192014A.SSF	405067.063	50693
722094.044	4294195.507	7461	09-Jan-14	ALEX192014A.SSF	405068.0049	50694
722094.68	4294196.233	7595	09-Jan-14	ALEX192014A.SSF	405069.0959	50695
722095.392	4294196.737	6578	09-Jan-14	ALEX192014A.SSF	405070.116	50696
722096.065	4294197.354	6444	09-Jan-14	ALEX192014A.SSF	405071.1299	50697
722096.382	4294197.836	5821	09-Jan-14	ALEX192014A.SSF	405072.02	50698
722096.902	4294198.337	6218	09-Jan-14	ALEX192014A.SSF	405073.188	50699
722097.498	4294198.793	6324	09-Jan-14	ALEX192014A.SSF	405074.1221	50700
722097.92	4294199.321	6831	09-Jan-14	ALEX192014A.SSF	405075.1189	50701
722098.308	4294199.741	6657	09-Jan-14	ALEX192014A.SSF	405075.959	50702
722098.943	4294200.258	6524	09-Jan-14	ALEX192014A.SSF	405077.092	50703
722099.315	4294200.92	7091	09-Jan-14	ALEX192014A.SSF	405077.9341	50704
722099.763	4294201.634	8042	09-Jan-14	ALEX192014A.SSF	405079.0381	50705
722100.31	4294202.01	7890	09-Jan-14	ALEX192014A.SSF	405079.991	50706
722101.017	4294202.577	6952	09-Jan-14	ALEX192014A.SSF	405081.041	50707
722101.349	4294203.07	7138	09-Jan-14	ALEX192014A.SSF	405081.946	50708
722102.033	4294203.522	7094	09-Jan-14	ALEX192014A.SSF	405083.1919	50709
722102.653	4294203.822	6663	09-Jan-14	ALEX192014A.SSF	405084.02	50710
722103.304	4294204.584	5483	09-Jan-14	ALEX192014A.SSF	405085.062	50711
722103.856	4294205.339	5462	09-Jan-14	ALEX192014A.SSF	405086.001	50712
722104.689	4294205.999	4902	09-Jan-14	ALEX192014A.SSF	405087.073	50713
722105.299	4294206.674	5015	09-Jan-14	ALEX192014A.SSF	405087.99	50714
722105.612	4294207.566	4786	09-Jan-14	ALEX192014A.SSF	405089.0349	50715
722105.973	4294208.097	4664	09-Jan-14	ALEX192014A.SSF	405089.999	50716
722106.717	4294208.552	4754	09-Jan-14	ALEX192014A.SSF	405091.0339	50717
722107.549	4294209.23	4804	09-Jan-14	ALEX192014A.SSF	405092.0149	50718
722108.106	4294210.17	5117	09-Jan-14	ALEX192014A.SSF	405093.074	50719
722108.681	4294210.891	4821	09-Jan-14	ALEX192014A.SSF	405094.053	50720
722109.394	4294211.508	5194	09-Jan-14	ALEX192014A.SSF	405095.0591	50721
722109.972	4294212.398	5584	09-Jan-14	ALEX192014A.SSF	405095.9939	50722
722110.592	4294213.455	5931	09-Jan-14	ALEX192014A.SSF	405097.105	50723
722111.249	4294214.091	5796	09-Jan-14	ALEX192014A.SSF	405098.0359	50724

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722112.007	4294214.935	6058	09-Jan-14	ALEX192014A.SSF	405099.1509	50725
722112.258	4294215.474	5950	09-Jan-14	ALEX192014A.SSF	405100.0271	50726
722112.196	4294215.986	6557	09-Jan-14	ALEX192014A.SSF	405101.114	50727
722111.827	4294216.216	6319	09-Jan-14	ALEX192014A.SSF	405102.0659	50728
722111.338	4294215.7	5504	09-Jan-14	ALEX192014A.SSF	405103.1201	50729
722110.972	4294214.838	5331	09-Jan-14	ALEX192014A.SSF	405104.011	50730
722109.921	4294213.671	6231	09-Jan-14	ALEX192014A.SSF	405105.2151	50731
722109.213	4294213.045	6537	09-Jan-14	ALEX192014A.SSF	405105.9451	50732
722108.532	4294212.021	5916	09-Jan-14	ALEX192014A.SSF	405107.0439	50733
722108.048	4294211.072	5788	09-Jan-14	ALEX192014A.SSF	405108.042	50734
722107.265	4294210.204	5168	09-Jan-14	ALEX192014A.SSF	405109.0569	50735
722106.57	4294209.366	5052	09-Jan-14	ALEX192014A.SSF	405109.946	50736
722105.975	4294208.431	4979	09-Jan-14	ALEX192014A.SSF	405110.9509	50737
722105.371	4294207.701	5073	09-Jan-14	ALEX192014A.SSF	405111.8491	50738
722104.551	4294206.945	4653	09-Jan-14	ALEX192014A.SSF	405113.0229	50739
722104.103	4294206.303	4687	09-Jan-14	ALEX192014A.SSF	405113.844	50740
722103.575	4294205.204	4571	09-Jan-14	ALEX192014A.SSF	405115.054	50741
722102.973	4294204.498	5264	09-Jan-14	ALEX192014A.SSF	405115.988	50742
722101.995	4294203.695	5188	09-Jan-14	ALEX192014A.SSF	405117.0669	50743
722101.238	4294202.868	5663	09-Jan-14	ALEX192014A.SSF	405117.9709	50744
722100.589	4294201.553	6643	09-Jan-14	ALEX192014A.SSF	405119.1909	50745
722100.166	4294200.607	7181	09-Jan-14	ALEX192014A.SSF	405120.1089	50746
722099.5	4294199.659	6655	09-Jan-14	ALEX192014A.SSF	405121.1169	50747
722098.793	4294198.852	6485	09-Jan-14	ALEX192014A.SSF	405122.0471	50748
722098.04	4294197.839	6991	09-Jan-14	ALEX192014A.SSF	405123.1489	50749
722097.7	4294196.751	6277	09-Jan-14	ALEX192014A.SSF	405124.0349	50750
722097.058	4294196.207	7389	09-Jan-14	ALEX192014A.SSF	405125.113	50751
722096.584	4294196.621	7397	09-Jan-14	ALEX192014A.SSF	405126.0029	50752
722096.566	4294197.228	7429	09-Jan-14	ALEX192014A.SSF	405127.084	50753
722096.655	4294197.665	7647	09-Jan-14	ALEX192014A.SSF	405127.98	50754
722096.983	4294198.583	8332	09-Jan-14	ALEX192014A.SSF	405129.063	50755
722097.404	4294199.539	8203	09-Jan-14	ALEX192014A.SSF	405130.1069	50756
722097.564	4294200.357	6580	09-Jan-14	ALEX192014A.SSF	405131.074	50757
722097.803	4294200.997	6745	09-Jan-14	ALEX192014A.SSF	405132.0349	50758
722098.303	4294201.77	6096	09-Jan-14	ALEX192014A.SSF	405133.053	50759
722098.728	4294202.736	6864	09-Jan-14	ALEX192014A.SSF	405134.0891	50760
722099.141	4294203.417	7296	09-Jan-14	ALEX192014A.SSF	405135.1101	50761
722099.601	4294203.836	7254	09-Jan-14	ALEX192014A.SSF	405136.0659	50762
722100.069	4294204.475	6913	09-Jan-14	ALEX192014A.SSF	405137.0649	50763
722100.729	4294205.04	5622	09-Jan-14	ALEX192014A.SSF	405138.0039	50764
722101.795	4294205.701	5262	09-Jan-14	ALEX192014A.SSF	405139.1279	50765
722102.59	4294206.41	4805	09-Jan-14	ALEX192014A.SSF	405140.0339	50766
722103.091	4294207.195	5035	09-Jan-14	ALEX192014A.SSF	405141.075	50767
722103.676	4294207.877	5427	09-Jan-14	ALEX192014A.SSF	405141.9551	50768
722104.825	4294208.834	5107	09-Jan-14	ALEX192014A.SSF	405143.0649	50769
722105.591	4294209.639	4658	09-Jan-14	ALEX192014A.SSF	405143.957	50770
722106.352	4294210.581	4525	09-Jan-14	ALEX192014A.SSF	405145.104	50771

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722107.069	4294211.153	4458	09-Jan-14	ALEX192014A.SSF	405146.0049	50772
722108.013	4294211.918	5035	09-Jan-14	ALEX192014A.SSF	405147.082	50773
722108.631	4294212.568	5569	09-Jan-14	ALEX192014A.SSF	405148	50774
722109.49	4294213.092	5720	09-Jan-14	ALEX192014A.SSF	405149.103	50775
722109.799	4294213.741	5572	09-Jan-14	ALEX192014A.SSF	405150.085	50776
722109.692	4294214.27	5617	09-Jan-14	ALEX192014A.SSF	405151.1421	50777
722109.487	4294214.149	5901	09-Jan-14	ALEX192014A.SSF	405152.0281	50778
722108.813	4294213.747	5794	09-Jan-14	ALEX192014A.SSF	405153.0701	50779
722108.607	4294213.935	6493	09-Jan-14	ALEX192014A.SSF	405154.0049	50780
722109.133	4294215.042	6423	09-Jan-14	ALEX192014A.SSF	405155.1221	50781
722109.808	4294215.864	6053	09-Jan-14	ALEX192014A.SSF	405156.0139	50782
722110.703	4294216.423	5565	09-Jan-14	ALEX192014A.SSF	405157.1599	50783
722110.977	4294216.715	5583	09-Jan-14	ALEX192014A.SSF	405157.97	50784
722111.368	4294216.903	6163	09-Jan-14	ALEX192014A.SSF	405159.0901	50785
722111.804	4294217.274	6220	09-Jan-14	ALEX192014A.SSF	405159.9729	50786
722112.023	4294217.704	5662	09-Jan-14	ALEX192014A.SSF	405161.0601	50787
722111.898	4294217.638	6042	09-Jan-14	ALEX192014A.SSF	405162.0381	50788
722111.817	4294217.514	7126	09-Jan-14	ALEX192014A.SSF	405163.042	50789
722111.78	4294217.445	6311	09-Jan-14	ALEX192014A.SSF	405163.948	50790
722111.738	4294217.373	5958	09-Jan-14	ALEX192014A.SSF	405165.04	50791
722111.702	4294217.314	7094	09-Jan-14	ALEX192014A.SSF	405165.9241	50792
722111.685	4294217.222	6213	09-Jan-14	ALEX192014A.SSF	405167.114	50793
722111.659	4294217.18	6863	09-Jan-14	ALEX192014A.SSF	405167.968	50794
722111.576	4294217.148	7025	09-Jan-14	ALEX192014A.SSF	405169.106	50795
722111.483	4294217.098	6526	09-Jan-14	ALEX192014A.SSF	405169.978	50796
722111.421	4294216.916	5861	09-Jan-14	ALEX192014A.SSF	405171.1201	50797
722111.401	4294216.824	6057	09-Jan-14	ALEX192014A.SSF	405172.0071	50798
722111.448	4294216.886	6321	09-Jan-14	ALEX192014A.SSF	405173.0769	50799
722111.488	4294216.982	6080	09-Jan-14	ALEX192014A.SSF	405174.0161	50800
722000.749	4294261.675	6190	09-Jan-14	ALEX192014B.SSF	418664.183	50801
722000.748	4294261.674	6257	09-Jan-14	ALEX192014B.SSF	418665.25	50802
722000.747	4294261.673	5224	09-Jan-14	ALEX192014B.SSF	418666.213	50803
722000.747	4294261.674	5473	09-Jan-14	ALEX192014B.SSF	418667.108	50804
722000.745	4294261.675	5658	09-Jan-14	ALEX192014B.SSF	418668.233	50805
722000.751	4294261.673	5950	09-Jan-14	ALEX192014B.SSF	418669.171	50806
722000.753	4294261.683	5619	09-Jan-14	ALEX192014B.SSF	418670.437	50807
722000.751	4294261.679	5392	09-Jan-14	ALEX192014B.SSF	418671.19	50808
722000.753	4294261.672	5710	09-Jan-14	ALEX192014B.SSF	418672.192	50809
722000.757	4294261.676	6579	09-Jan-14	ALEX192014B.SSF	418673.045	50810
722000.755	4294261.674	6055	09-Jan-14	ALEX192014B.SSF	418674.077	50811
722000.751	4294261.678	6278	09-Jan-14	ALEX192014B.SSF	418675.116	50812
722000.733	4294261.657	5684	09-Jan-14	ALEX192014B.SSF	418676.257	50813
722000.688	4294261.6	5845	09-Jan-14	ALEX192014B.SSF	418677.128	50814
722000.692	4294261.547	5867	09-Jan-14	ALEX192014B.SSF	418678.152	50815
722000.757	4294261.567	5828	09-Jan-14	ALEX192014B.SSF	418679.083	50816
722000.744	4294261.604	5618	09-Jan-14	ALEX192014B.SSF	418680.184	50817
722000.719	4294261.644	5478	09-Jan-14	ALEX192014B.SSF	418681.106	50818

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722000.837	4294261.899	5338	09-Jan-14	ALEX192014B.SSF	418682.354	50819
722000.947	4294262.01	5073	09-Jan-14	ALEX192014B.SSF	418683.121	50820
722000.908	4294261.792	5501	09-Jan-14	ALEX192014B.SSF	418684.149	50821
722000.974	4294261.561	5696	09-Jan-14	ALEX192014B.SSF	418685.097	50822
722001.205	4294261.527	5784	09-Jan-14	ALEX192014B.SSF	418686.073	50823
722001.313	4294261.23	5826	09-Jan-14	ALEX192014B.SSF	418687.175	50824
722001.47	4294260.972	6142	09-Jan-14	ALEX192014B.SSF	418688.043	50825
722002.024	4294260.425	5885	09-Jan-14	ALEX192014B.SSF	418689.024	50826
722002.664	4294259.413	5575	09-Jan-14	ALEX192014B.SSF	418690.042	50827
722003.68	4294258.454	5678	09-Jan-14	ALEX192014B.SSF	418691.057	50828
722005.046	4294257.894	5811	09-Jan-14	ALEX192014B.SSF	418692.128	50829
722005.991	4294257.423	5841	09-Jan-14	ALEX192014B.SSF	418693.031	50830
722007.046	4294256.462	6353	09-Jan-14	ALEX192014B.SSF	418694.27	50831
722007.746	4294255.909	6208	09-Jan-14	ALEX192014B.SSF	418695.068	50832
722009.125	4294255.195	7192	09-Jan-14	ALEX192014B.SSF	418696.144	50833
722010.252	4294254.355	7288	09-Jan-14	ALEX192014B.SSF	418697.205	50834
722011.111	4294253.339	7342	09-Jan-14	ALEX192014B.SSF	418698.286	50835
722011.84	4294252.534	6995	09-Jan-14	ALEX192014B.SSF	418699.178	50836
722012.957	4294251.892	6728	09-Jan-14	ALEX192014B.SSF	418700.166	50837
722014.025	4294251.373	6842	09-Jan-14	ALEX192014B.SSF	418701.137	50838
722014.899	4294250.437	6960	09-Jan-14	ALEX192014B.SSF	418702.256	50839
722015.581	4294249.622	6990	09-Jan-14	ALEX192014B.SSF	418703.112	50840
722016.929	4294248.973	6457	09-Jan-14	ALEX192014B.SSF	418704.247	50841
722017.9	4294248.67	6864	09-Jan-14	ALEX192014B.SSF	418705.105	50842
722018.702	4294247.971	6156	09-Jan-14	ALEX192014B.SSF	418706.173	50843
722019.508	4294247.103	6219	09-Jan-14	ALEX192014B.SSF	418707.125	50844
722020.528	4294246.344	6157	09-Jan-14	ALEX192014B.SSF	418708.151	50845
722021.394	4294245.801	6558	09-Jan-14	ALEX192014B.SSF	418709.09	50846
722022.428	4294244.934	6097	09-Jan-14	ALEX192014B.SSF	418710.298	50847
722023.088	4294244.267	5814	09-Jan-14	ALEX192014B.SSF	418711.011	50848
722024.075	4294243.382	5542	09-Jan-14	ALEX192014B.SSF	418712.107	50849
722025.166	4294242.787	5382	09-Jan-14	ALEX192014B.SSF	418713.163	50850
722026.139	4294242.231	5435	09-Jan-14	ALEX192014B.SSF	418714.152	50851
722026.948	4294241.449	5232	09-Jan-14	ALEX192014B.SSF	418715.082	50852
722027.863	4294240.454	5538	09-Jan-14	ALEX192014B.SSF	418716.092	50853
722028.869	4294239.781	6047	09-Jan-14	ALEX192014B.SSF	418717.089	50854
722030.19	4294239.173	6153	09-Jan-14	ALEX192014B.SSF	418718.149	50855
722031.279	4294238.52	5382	09-Jan-14	ALEX192014B.SSF	418719.09	50856
722032.181	4294237.658	5682	09-Jan-14	ALEX192014B.SSF	418720.07	50857
722032.987	4294236.907	6429	09-Jan-14	ALEX192014B.SSF	418720.993	50858
722033.949	4294236.56	5936	09-Jan-14	ALEX192014B.SSF	418722.145	50859
722034.753	4294236.118	5926	09-Jan-14	ALEX192014B.SSF	418723.043	50860
722035.66	4294235.298	5846	09-Jan-14	ALEX192014B.SSF	418724.033	50861
722036.588	4294234.589	5778	09-Jan-14	ALEX192014B.SSF	418725.141	50862
722037.3	4294233.905	6243	09-Jan-14	ALEX192014B.SSF	418726.164	50863
722037.673	4294233.329	5521	09-Jan-14	ALEX192014B.SSF	418727.1	50864
722038.034	4294232.965	5430	09-Jan-14	ALEX192014B.SSF	418728.269	50865

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722038.431	4294232.793	5582	09-Jan-14	ALEX192014B.SSF	418729.14	50866
722039.358	4294232.41	5127	09-Jan-14	ALEX192014B.SSF	418730.281	50867
722040.071	4294231.973	4961	09-Jan-14	ALEX192014B.SSF	418730.973	50868
722040.624	4294231.196	5220	09-Jan-14	ALEX192014B.SSF	418732.183	50869
722040.724	4294231.13	5359	09-Jan-14	ALEX192014B.SSF	418732.987	50870
722041.177	4294230.819	5872	09-Jan-14	ALEX192014B.SSF	418734.278	50871
722041.77	4294230.41	5958	09-Jan-14	ALEX192014B.SSF	418734.965	50872
722042.848	4294229.85	5571	09-Jan-14	ALEX192014B.SSF	418736.065	50873
722043.3	4294229.204	5549	09-Jan-14	ALEX192014B.SSF	418737.039	50874
722044.134	4294228.28	6218	09-Jan-14	ALEX192014B.SSF	418738.207	50875
722044.894	4294227.695	7014	09-Jan-14	ALEX192014B.SSF	418739.156	50876
722045.776	4294227.237	6283	09-Jan-14	ALEX192014B.SSF	418740.048	50877
722046.944	4294226.986	5941	09-Jan-14	ALEX192014B.SSF	418741.084	50878
722047.782	4294226.631	5982	09-Jan-14	ALEX192014B.SSF	418742.06	50879
722048.455	4294225.951	5888	09-Jan-14	ALEX192014B.SSF	418743.036	50880
722049.138	4294225.226	6978	09-Jan-14	ALEX192014B.SSF	418744.1	50881
722049.999	4294224.813	7114	09-Jan-14	ALEX192014B.SSF	418744.984	50882
722050.889	4294224.318	6758	09-Jan-14	ALEX192014B.SSF	418746.075	50883
722051.632	4294223.562	6729	09-Jan-14	ALEX192014B.SSF	418747.032	50884
722052.481	4294222.587	7022	09-Jan-14	ALEX192014B.SSF	418748.128	50885
722053.405	4294221.909	7635	09-Jan-14	ALEX192014B.SSF	418749.073	50886
722054.438	4294221.308	6828	09-Jan-14	ALEX192014B.SSF	418750.097	50887
722055.175	4294220.702	7827	09-Jan-14	ALEX192014B.SSF	418751.073	50888
722055.936	4294219.776	7597	09-Jan-14	ALEX192014B.SSF	418752.211	50889
722056.653	4294219.086	7419	09-Jan-14	ALEX192014B.SSF	418753.12	50890
722057.666	4294218.386	7554	09-Jan-14	ALEX192014B.SSF	418754.211	50891
722058.283	4294217.828	8098	09-Jan-14	ALEX192014B.SSF	418755.075	50892
722059.119	4294216.964	8534	09-Jan-14	ALEX192014B.SSF	418756.185	50893
722059.885	4294216.323	8103	09-Jan-14	ALEX192014B.SSF	418757.068	50894
722061.063	4294215.83	7035	09-Jan-14	ALEX192014B.SSF	418758.102	50895
722062.17	4294215.378	6918	09-Jan-14	ALEX192014B.SSF	418759.045	50896
722063.117	4294214.635	7909	09-Jan-14	ALEX192014B.SSF	418760.075	50897
722063.82	4294213.67	7587	09-Jan-14	ALEX192014B.SSF	418761.05	50898
722064.741	4294212.804	7327	09-Jan-14	ALEX192014B.SSF	418762.1	50899
722065.319	4294212.098	7771	09-Jan-14	ALEX192014B.SSF	418763.061	50900
722064.522	4294211.573	6322	09-Jan-14	ALEX192014B.SSF	418764.255	50901
722063.544	4294211.652	6170	09-Jan-14	ALEX192014B.SSF	418765.016	50902
722062.409	4294212.285	6552	09-Jan-14	ALEX192014B.SSF	418766.047	50903
722061.499	4294212.794	6348	09-Jan-14	ALEX192014B.SSF	418766.99	50904
722060.453	4294213.299	6717	09-Jan-14	ALEX192014B.SSF	418768.095	50905
722059.758	4294213.946	6778	09-Jan-14	ALEX192014B.SSF	418768.997	50906
722058.688	4294215.111	7222	09-Jan-14	ALEX192014B.SSF	418770.209	50907
722057.63	4294215.946	6755	09-Jan-14	ALEX192014B.SSF	418771.112	50908
722056.389	4294216.625	7568	09-Jan-14	ALEX192014B.SSF	418772.084	50909
722055.372	4294217.15	7472	09-Jan-14	ALEX192014B.SSF	418773.062	50910
722054.59	4294217.933	7568	09-Jan-14	ALEX192014B.SSF	418774.267	50911
722054.196	4294218.553	6962	09-Jan-14	ALEX192014B.SSF	418775.066	50912

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722053.226	4294219.374	6390	09-Jan-14	ALEX192014B.SSF	418776.275	50913
722052.437	4294219.735	7057	09-Jan-14	ALEX192014B.SSF	418777.037	50914
722051.286	4294220.344	7314	09-Jan-14	ALEX192014B.SSF	418778.267	50915
722050.721	4294220.866	7678	09-Jan-14	ALEX192014B.SSF	418779.034	50916
722049.937	4294221.664	7439	09-Jan-14	ALEX192014B.SSF	418780.087	50917
722049.063	4294222.282	7530	09-Jan-14	ALEX192014B.SSF	418780.986	50918
722047.77	4294223.017	6862	09-Jan-14	ALEX192014B.SSF	418782.231	50919
722046.975	4294223.656	6995	09-Jan-14	ALEX192014B.SSF	418783.141	50920
722046.304	4294224.428	6968	09-Jan-14	ALEX192014B.SSF	418784.068	50921
722045.549	4294225.108	7322	09-Jan-14	ALEX192014B.SSF	418784.99	50922
722044.489	4294225.688	7380	09-Jan-14	ALEX192014B.SSF	418786.012	50923
722043.586	4294226.219	6525	09-Jan-14	ALEX192014B.SSF	418786.972	50924
722042.706	4294227.234	6011	09-Jan-14	ALEX192014B.SSF	418788.126	50925
722042.079	4294227.82	5699	09-Jan-14	ALEX192014B.SSF	418788.965	50926
722041.221	4294228.189	5598	09-Jan-14	ALEX192014B.SSF	418790.114	50927
722040.718	4294228.636	5984	09-Jan-14	ALEX192014B.SSF	418791.11	50928
722040.05	4294229.286	5863	09-Jan-14	ALEX192014B.SSF	418792.129	50929
722039.19	4294229.969	5818	09-Jan-14	ALEX192014B.SSF	418793.074	50930
722038.411	4294230.518	5995	09-Jan-14	ALEX192014B.SSF	418794.167	50931
722037.838	4294230.778	5547	09-Jan-14	ALEX192014B.SSF	418794.994	50932
722037.354	4294231.284	5670	09-Jan-14	ALEX192014B.SSF	418796.127	50933
722036.74	4294231.609	5462	09-Jan-14	ALEX192014B.SSF	418797.047	50934
722035.935	4294232.059	5390	09-Jan-14	ALEX192014B.SSF	418798.026	50935
722035.503	4294232.85	5919	09-Jan-14	ALEX192014B.SSF	418798.954	50936
722034.526	4294233.628	5624	09-Jan-14	ALEX192014B.SSF	418800.1	50937
722033.566	4294233.971	5361	09-Jan-14	ALEX192014B.SSF	418800.974	50938
722032.702	4294234.729	5700	09-Jan-14	ALEX192014B.SSF	418802.078	50939
722031.934	4294235.539	5929	09-Jan-14	ALEX192014B.SSF	418803.011	50940
722030.636	4294236.25	5915	09-Jan-14	ALEX192014B.SSF	418804.131	50941
722029.589	4294236.705	5908	09-Jan-14	ALEX192014B.SSF	418805.072	50942
722028.623	4294237.403	5663	09-Jan-14	ALEX192014B.SSF	418806.092	50943
722027.738	4294238.207	6998	09-Jan-14	ALEX192014B.SSF	418807.041	50944
722026.542	4294238.854	6009	09-Jan-14	ALEX192014B.SSF	418808.118	50945
722025.425	4294239.324	5825	09-Jan-14	ALEX192014B.SSF	418809.088	50946
722024.576	4294240.167	6774	09-Jan-14	ALEX192014B.SSF	418810.059	50947
722023.809	4294240.975	6763	09-Jan-14	ALEX192014B.SSF	418811.004	50948
722022.725	4294241.644	5711	09-Jan-14	ALEX192014B.SSF	418812.099	50949
722021.745	4294242.297	5830	09-Jan-14	ALEX192014B.SSF	418813.112	50950
722021.075	4294243.126	6009	09-Jan-14	ALEX192014B.SSF	418814.08	50951
722020.286	4294243.918	5947	09-Jan-14	ALEX192014B.SSF	418815.094	50952
722019.33	4294244.55	5621	09-Jan-14	ALEX192014B.SSF	418816.033	50953
722018.262	4294245.289	5959	09-Jan-14	ALEX192014B.SSF	418817.096	50954
722017.461	4294246.218	6074	09-Jan-14	ALEX192014B.SSF	418818.179	50955
722016.747	4294246.955	6558	09-Jan-14	ALEX192014B.SSF	418819.048	50956
722015.577	4294247.597	6619	09-Jan-14	ALEX192014B.SSF	418820.063	50957
722014.539	4294248.147	6429	09-Jan-14	ALEX192014B.SSF	418821.006	50958
722013.506	4294249.032	7418	09-Jan-14	ALEX192014B.SSF	418822.053	50959

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722012.505	4294249.893	6864	09-Jan-14	ALEX192014B.SSF	418823.028	50960
722011.33	4294250.65	7026	09-Jan-14	ALEX192014B.SSF	418824.055	50961
722010.336	4294251.314	7936	09-Jan-14	ALEX192014B.SSF	418825.031	50962
722009.447	4294252.192	7474	09-Jan-14	ALEX192014B.SSF	418826.082	50963
722008.752	4294253.074	8018	09-Jan-14	ALEX192014B.SSF	418826.991	50964
722007.805	4294253.834	7734	09-Jan-14	ALEX192014B.SSF	418828.062	50965
722006.673	4294254.254	7513	09-Jan-14	ALEX192014B.SSF	418828.995	50966
722005.429	4294254.914	6288	09-Jan-14	ALEX192014B.SSF	418830.183	50967
722004.619	4294255.853	5838	09-Jan-14	ALEX192014B.SSF	418831.133	50968
722003.906	4294256.945	5856	09-Jan-14	ALEX192014B.SSF	418832.144	50969
722003.2	4294257.589	5796	09-Jan-14	ALEX192014B.SSF	418832.998	50970
722002.069	4294258.033	5720	09-Jan-14	ALEX192014B.SSF	418834.191	50971
722001.359	4294258.485	5377	09-Jan-14	ALEX192014B.SSF	418835.06	50972
722000.594	4294259.33	5612	09-Jan-14	ALEX192014B.SSF	418836.128	50973
721999.735	4294259.83	5009	09-Jan-14	ALEX192014B.SSF	418837.134	50974
721998.948	4294260.122	5555	09-Jan-14	ALEX192014B.SSF	418838.117	50975
721998.514	4294260.344	5434	09-Jan-14	ALEX192014B.SSF	418839.026	50976
721998.386	4294260.174	5547	09-Jan-14	ALEX192014B.SSF	418840.062	50977
721998.614	4294259.595	5745	09-Jan-14	ALEX192014B.SSF	418840.953	50978
721999.054	4294258.788	6224	09-Jan-14	ALEX192014B.SSF	418842.024	50979
721999.857	4294258.3	6326	09-Jan-14	ALEX192014B.SSF	418843.008	50980
722000.867	4294257.761	5777	09-Jan-14	ALEX192014B.SSF	418844.07	50981
722001.648	4294257.094	6366	09-Jan-14	ALEX192014B.SSF	418844.968	50982
722002.608	4294256.258	6571	09-Jan-14	ALEX192014B.SSF	418846.205	50983
722003.371	4294255.84	6052	09-Jan-14	ALEX192014B.SSF	418847.02	50984
722004.36	4294255.273	6394	09-Jan-14	ALEX192014B.SSF	418848.029	50985
722005.185	4294254.53	6238	09-Jan-14	ALEX192014B.SSF	418849.033	50986
722006.021	4294253.851	5549	09-Jan-14	ALEX192014B.SSF	418850.056	50987
722006.997	4294253.427	6076	09-Jan-14	ALEX192014B.SSF	418850.995	50988
722007.99	4294252.888	6499	09-Jan-14	ALEX192014B.SSF	418852.044	50989
722008.699	4294252.225	6274	09-Jan-14	ALEX192014B.SSF	418852.992	50990
722009.583	4294251.381	6998	09-Jan-14	ALEX192014B.SSF	418854.086	50991
722010.555	4294250.791	6429	09-Jan-14	ALEX192014B.SSF	418855.036	50992
722011.442	4294250.116	7277	09-Jan-14	ALEX192014B.SSF	418856.014	50993
722012.111	4294249.405	6889	09-Jan-14	ALEX192014B.SSF	418856.959	50994
722013.16	4294248.715	7212	09-Jan-14	ALEX192014B.SSF	418858.143	50995
722014.966	4294247.57	6218	09-Jan-14	ALEX192014B.SSF	418860.064	50997
722015.757	4294246.617	6714	09-Jan-14	ALEX192014B.SSF	418861.004	50998
722017.017	4294245.876	6868	09-Jan-14	ALEX192014B.SSF	418862.129	50999
722017.936	4294245.448	6817	09-Jan-14	ALEX192014B.SSF	418862.988	51000
722018.792	4294244.671	6804	09-Jan-14	ALEX192014B.SSF	418864.053	51001
722019.639	4294243.812	6231	09-Jan-14	ALEX192014B.SSF	418865.063	51002
722020.782	4294243.303	7227	09-Jan-14	ALEX192014B.SSF	418866.065	51003
722021.733	4294242.882	7027	09-Jan-14	ALEX192014B.SSF	418867.014	51004
722022.556	4294242.014	6826	09-Jan-14	ALEX192014B.SSF	418868.109	51005
722023.196	4294241.294	7316	09-Jan-14	ALEX192014B.SSF	418869	51006
722024.144	4294240.742	7529	09-Jan-14	ALEX192014B.SSF	418870.06	51007

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722024.945	4294240.188	7492	09-Jan-14	ALEX192014B.SSF	418871	51008
722025.77	4294239.281	6793	09-Jan-14	ALEX192014B.SSF	418872.198	51009
722026.344	4294238.616	6648	09-Jan-14	ALEX192014B.SSF	418872.993	51010
722027.629	4294238.019	6222	09-Jan-14	ALEX192014B.SSF	418874.11	51011
722028.774	4294237.679	6385	09-Jan-14	ALEX192014B.SSF	418875.1	51012
722029.572	4294237.119	6486	09-Jan-14	ALEX192014B.SSF	418876.046	51013
722030.167	4294236.329	6961	09-Jan-14	ALEX192014B.SSF	418877	51014
722031.155	4294235.619	7020	09-Jan-14	ALEX192014B.SSF	418878.084	51015
722032.157	4294235.127	5685	09-Jan-14	ALEX192014B.SSF	418879.025	51016
722033.068	4294234.187	5755	09-Jan-14	ALEX192014B.SSF	418880.1	51017
722033.732	4294233.324	5652	09-Jan-14	ALEX192014B.SSF	418880.943	51018
722035.013	4294232.661	5909	09-Jan-14	ALEX192014B.SSF	418882.072	51019
722035.911	4294232.224	5784	09-Jan-14	ALEX192014B.SSF	418883.036	51020
722036.417	4294231.677	5496	09-Jan-14	ALEX192014B.SSF	418884.103	51021
722037.118	4294231.152	6406	09-Jan-14	ALEX192014B.SSF	418885.049	51022
722037.923	4294230.657	5717	09-Jan-14	ALEX192014B.SSF	418886.054	51023
722038.425	4294230.139	5593	09-Jan-14	ALEX192014B.SSF	418887.021	51024
722039.147	4294229.776	5216	09-Jan-14	ALEX192014B.SSF	418888.133	51025
722039.606	4294229.705	5506	09-Jan-14	ALEX192014B.SSF	418889.024	51026
722040.154	4294229.15	5565	09-Jan-14	ALEX192014B.SSF	418890.058	51027
722041.142	4294228.399	5432	09-Jan-14	ALEX192014B.SSF	418891.066	51028
722042.11	4294228.001	5936	09-Jan-14	ALEX192014B.SSF	418892.053	51029
722042.771	4294227.447	6816	09-Jan-14	ALEX192014B.SSF	418892.981	51030
722043.256	4294226.558	7554	09-Jan-14	ALEX192014B.SSF	418894.027	51031
722044.028	4294225.846	7138	09-Jan-14	ALEX192014B.SSF	418894.985	51032
722045.224	4294225.172	6292	09-Jan-14	ALEX192014B.SSF	418896.081	51033
722046.061	4294224.571	6493	09-Jan-14	ALEX192014B.SSF	418897.019	51034
722046.893	4294223.642	6933	09-Jan-14	ALEX192014B.SSF	418898.042	51035
722047.74	4294222.843	7523	09-Jan-14	ALEX192014B.SSF	418899.054	51036
722048.734	4294222.267	7040	09-Jan-14	ALEX192014B.SSF	418900.055	51037
722049.571	4294221.703	6680	09-Jan-14	ALEX192014B.SSF	418900.994	51038
722050.399	4294220.784	6140	09-Jan-14	ALEX192014B.SSF	418902.06	51039
722051.119	4294219.943	6155	09-Jan-14	ALEX192014B.SSF	418903	51040
722052.538	4294219.169	7088	09-Jan-14	ALEX192014B.SSF	418904.172	51041
722053.42	4294218.715	6664	09-Jan-14	ALEX192014B.SSF	418905.004	51042
722054.249	4294217.831	6728	09-Jan-14	ALEX192014B.SSF	418906.122	51043
722054.829	4294217.139	7262	09-Jan-14	ALEX192014B.SSF	418906.92	51044
722056.103	4294216.478	6915	09-Jan-14	ALEX192014B.SSF	418908.102	51045
722057.071	4294216.072	7998	09-Jan-14	ALEX192014B.SSF	418909.019	51046
722057.677	4294215.136	7939	09-Jan-14	ALEX192014B.SSF	418910.07	51047
722058.134	4294214.264	6305	09-Jan-14	ALEX192014B.SSF	418911.008	51048
722059.105	4294213.839	7006	09-Jan-14	ALEX192014B.SSF	418912.061	51049
722059.938	4294213.471	8051	09-Jan-14	ALEX192014B.SSF	418912.947	51050
722060.707	4294212.708	8193	09-Jan-14	ALEX192014B.SSF	418914.06	51051
722061.5	4294211.996	7418	09-Jan-14	ALEX192014B.SSF	418914.973	51052
722062.425	4294211.352	7314	09-Jan-14	ALEX192014B.SSF	418916.129	51053
722062.501	4294210.91	6238	09-Jan-14	ALEX192014B.SSF	418917.041	51054

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722062.068	4294210.022	6809	09-Jan-14	ALEX192014B.SSF	418918.05	51055
722061.506	4294209.038	7192	09-Jan-14	ALEX192014B.SSF	418918.995	51056
722060.612	4294208.844	6568	09-Jan-14	ALEX192014B.SSF	418920.052	51057
722059.91	4294209.641	6322	09-Jan-14	ALEX192014B.SSF	418920.928	51058
722059.213	4294210.692	6135	09-Jan-14	ALEX192014B.SSF	418922.081	51059
722058.563	4294211.071	7023	09-Jan-14	ALEX192014B.SSF	418922.946	51060
722057.326	4294211.593	6406	09-Jan-14	ALEX192014B.SSF	418924.034	51061
722056.37	4294212.404	7421	09-Jan-14	ALEX192014B.SSF	418924.967	51062
722055.622	4294213.531	6985	09-Jan-14	ALEX192014B.SSF	418926.011	51063
722054.771	4294214.411	8286	09-Jan-14	ALEX192014B.SSF	418927.02	51064
722053.725	4294214.991	8281	09-Jan-14	ALEX192014B.SSF	418928.034	51065
722052.711	4294215.619	7920	09-Jan-14	ALEX192014B.SSF	418928.984	51066
722051.703	4294216.628	7620	09-Jan-14	ALEX192014B.SSF	418930.002	51067
722050.771	4294217.69	6945	09-Jan-14	ALEX192014B.SSF	418931.011	51068
722049.768	4294218.545	6596	09-Jan-14	ALEX192014B.SSF	418932.01	51069
722048.67	4294219.078	6749	09-Jan-14	ALEX192014B.SSF	418932.961	51070
722047.426	4294219.582	5707	09-Jan-14	ALEX192014B.SSF	418934.007	51071
722046.46	4294220.339	6322	09-Jan-14	ALEX192014B.SSF	418934.94	51072
722045.376	4294221.535	7310	09-Jan-14	ALEX192014B.SSF	418936.154	51073
722044.481	4294222.328	6777	09-Jan-14	ALEX192014B.SSF	418937.083	51074
722043.351	4294222.997	7094	09-Jan-14	ALEX192014B.SSF	418938.081	51075
722042.476	4294223.47	6753	09-Jan-14	ALEX192014B.SSF	418938.979	51076
722041.552	4294224.199	6938	09-Jan-14	ALEX192014B.SSF	418940.063	51077
722040.804	4294225.058	6564	09-Jan-14	ALEX192014B.SSF	418941.021	51078
722039.941	4294225.767	6411	09-Jan-14	ALEX192014B.SSF	418942.057	51079
722039.022	4294226.239	6852	09-Jan-14	ALEX192014B.SSF	418942.996	51080
722038.045	4294227.109	6153	09-Jan-14	ALEX192014B.SSF	418944.086	51081
722037.535	4294227.791	5708	09-Jan-14	ALEX192014B.SSF	418945.019	51082
722037.045	4294228.105	5940	09-Jan-14	ALEX192014B.SSF	418946.022	51083
722036.186	4294228.614	5797	09-Jan-14	ALEX192014B.SSF	418946.965	51084
722035.315	4294229.29	6171	09-Jan-14	ALEX192014B.SSF	418948.015	51085
722034.874	4294229.573	6552	09-Jan-14	ALEX192014B.SSF	418948.983	51086
722034.448	4294230.063	5787	09-Jan-14	ALEX192014B.SSF	418950.024	51087
722033.73	4294230.72	5647	09-Jan-14	ALEX192014B.SSF	418950.917	51088
722032.549	4294231.285	6379	09-Jan-14	ALEX192014B.SSF	418952.009	51089
722032.189	4294231.785	6172	09-Jan-14	ALEX192014B.SSF	418952.971	51090
722032.531	4294232.154	5464	09-Jan-14	ALEX192014B.SSF	418954.038	51091
722032.582	4294232.119	5556	09-Jan-14	ALEX192014B.SSF	418954.858	51092
722032.28	4294231.973	6065	09-Jan-14	ALEX192014B.SSF	418956.004	51093
722032.043	4294231.865	6526	09-Jan-14	ALEX192014B.SSF	418956.929	51094
722031.601	4294232.219	6161	09-Jan-14	ALEX192014B.SSF	418958.112	51095
722031.173	4294232.747	5860	09-Jan-14	ALEX192014B.SSF	418958.977	51096
722030.175	4294233.314	6146	09-Jan-14	ALEX192014B.SSF	418960.067	51097
722029.062	4294233.774	6396	09-Jan-14	ALEX192014B.SSF	418961.029	51098
722028.291	4294234.585	6429	09-Jan-14	ALEX192014B.SSF	418962.076	51099
722027.573	4294235.493	6797	09-Jan-14	ALEX192014B.SSF	418962.979	51100
722026.341	4294236.374	6539	09-Jan-14	ALEX192014B.SSF	418964.024	51101

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722025.229	4294236.793	7154	09-Jan-14	ALEX192014B.SSF	418964.983	51102
722024.386	4294237.302	7128	09-Jan-14	ALEX192014B.SSF	418966.041	51103
722023.723	4294238.218	7392	09-Jan-14	ALEX192014B.SSF	418967.03	51104
722022.612	4294239.257	6558	09-Jan-14	ALEX192014B.SSF	418968.229	51105
722021.826	4294239.717	6619	09-Jan-14	ALEX192014B.SSF	418968.926	51106
722020.612	4294240.375	6994	09-Jan-14	ALEX192014B.SSF	418970.072	51107
722019.645	4294241.189	7418	09-Jan-14	ALEX192014B.SSF	418971.075	51108
722018.736	4294242.167	5634	09-Jan-14	ALEX192014B.SSF	418972.116	51109
722017.927	4294242.85	6072	09-Jan-14	ALEX192014B.SSF	418972.923	51110
722016.431	4294243.687	7158	09-Jan-14	ALEX192014B.SSF	418974.124	51111
722015.497	4294244.214	7219	09-Jan-14	ALEX192014B.SSF	418974.916	51112
722014.125	4294245.316	6904	09-Jan-14	ALEX192014B.SSF	418976.114	51113
722013.13	4294246.316	7426	09-Jan-14	ALEX192014B.SSF	418977.025	51114
722011.907	4294247.294	6416	09-Jan-14	ALEX192014B.SSF	418978.15	51115
722010.824	4294247.769	6974	09-Jan-14	ALEX192014B.SSF	418979.024	51116
722009.618	4294248.211	6153	09-Jan-14	ALEX192014B.SSF	418980.07	51117
722008.776	4294248.822	6638	09-Jan-14	ALEX192014B.SSF	418980.976	51118
722007.9	4294250.022	6999	09-Jan-14	ALEX192014B.SSF	418982.18	51119
722007.39	4294250.601	6880	09-Jan-14	ALEX192014B.SSF	418982.845	51120
722005.993	4294251.377	7150	09-Jan-14	ALEX192014B.SSF	418983.994	51121
722004.782	4294251.876	6527	09-Jan-14	ALEX192014B.SSF	418984.891	51122
722003.695	4294252.742	5702	09-Jan-14	ALEX192014B.SSF	418986.133	51123
722003.088	4294253.352	5405	09-Jan-14	ALEX192014B.SSF	418986.975	51124
722001.987	4294254.004	5193	09-Jan-14	ALEX192014B.SSF	418988.053	51125
722000.923	4294254.564	5471	09-Jan-14	ALEX192014B.SSF	418989.006	51126
722000.036	4294255.393	6070	09-Jan-14	ALEX192014B.SSF	418990.03	51127
721999.525	4294256.3	6947	09-Jan-14	ALEX192014B.SSF	418990.92	51128
721998.693	4294257.127	5876	09-Jan-14	ALEX192014B.SSF	418992.001	51129
721997.64	4294257.364	5758	09-Jan-14	ALEX192014B.SSF	418992.957	51130
721996.838	4294257.837	6029	09-Jan-14	ALEX192014B.SSF	418993.994	51131
721996.419	4294258.208	5896	09-Jan-14	ALEX192014B.SSF	418994.962	51132
721996.185	4294258.183	6036	09-Jan-14	ALEX192014B.SSF	418996	51133
721996.048	4294257.872	6928	09-Jan-14	ALEX192014B.SSF	418996.941	51134
721996.485	4294257.536	5962	09-Jan-14	ALEX192014B.SSF	418998.018	51135
721997.395	4294257.583	6233	09-Jan-14	ALEX192014B.SSF	418998.959	51136
721998.296	4294256.967	5637	09-Jan-14	ALEX192014B.SSF	419000.054	51137
721998.755	4294256.172	5631	09-Jan-14	ALEX192014B.SSF	419000.853	51138
721999.598	4294255.377	5852	09-Jan-14	ALEX192014B.SSF	419002.062	51139
722000.598	4294255.085	5317	09-Jan-14	ALEX192014B.SSF	419002.97	51140
722001.703	4294254.535	5826	09-Jan-14	ALEX192014B.SSF	419004.076	51141
722002.52	4294253.683	6247	09-Jan-14	ALEX192014B.SSF	419004.954	51142
722003.389	4294252.638	6121	09-Jan-14	ALEX192014B.SSF	419006.071	51143
722004.446	4294252.066	6060	09-Jan-14	ALEX192014B.SSF	419007.014	51144
722005.617	4294251.595	6225	09-Jan-14	ALEX192014B.SSF	419008.038	51145
722006.462	4294250.981	6926	09-Jan-14	ALEX192014B.SSF	419008.882	51146
722007.335	4294250.029	6591	09-Jan-14	ALEX192014B.SSF	419010.064	51147
722008.074	4294249.689	6266	09-Jan-14	ALEX192014B.SSF	419010.944	51148

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722009.247	4294249.385	5575	09-Jan-14	ALEX192014B.SSF	419012.073	51149
722010.036	4294248.69	5731	09-Jan-14	ALEX192014B.SSF	419013.029	51150
722010.857	4294247.688	5803	09-Jan-14	ALEX192014B.SSF	419014.056	51151
722011.945	4294247.022	6272	09-Jan-14	ALEX192014B.SSF	419015.006	51152
722013.15	4294246.549	7628	09-Jan-14	ALEX192014B.SSF	419016.008	51153
722013.924	4294245.803	7547	09-Jan-14	ALEX192014B.SSF	419016.872	51154
722014.697	4294244.626	6776	09-Jan-14	ALEX192014B.SSF	419018.04	51155
722015.669	4294243.932	7304	09-Jan-14	ALEX192014B.SSF	419018.983	51156
722016.971	4294243.312	5996	09-Jan-14	ALEX192014B.SSF	419019.972	51157
722017.983	4294242.278	6553	09-Jan-14	ALEX192014B.SSF	419021.026	51158
722018.699	4294241.108	6768	09-Jan-14	ALEX192014B.SSF	419022.051	51159
722019.65	4294240.339	7152	09-Jan-14	ALEX192014B.SSF	419022.979	51160
722020.875	4294239.904	7278	09-Jan-14	ALEX192014B.SSF	419024.024	51161
722021.74	4294239.26	6829	09-Jan-14	ALEX192014B.SSF	419024.985	51162
722022.649	4294238.148	6927	09-Jan-14	ALEX192014B.SSF	419026.087	51163
722023.497	4294237.659	6332	09-Jan-14	ALEX192014B.SSF	419026.894	51164
722024.763	4294237.179	7133	09-Jan-14	ALEX192014B.SSF	419028.124	51165
722025.415	4294236.537	7123	09-Jan-14	ALEX192014B.SSF	419028.963	51166
722026.281	4294235.444	6971	09-Jan-14	ALEX192014B.SSF	419030.102	51167
722027.16	4294235.021	7292	09-Jan-14	ALEX192014B.SSF	419030.964	51168
722028.3	4294234.657	7313	09-Jan-14	ALEX192014B.SSF	419031.994	51169
722029.076	4294233.916	7558	09-Jan-14	ALEX192014B.SSF	419032.932	51170
722029.952	4294232.817	6689	09-Jan-14	ALEX192014B.SSF	419033.956	51171
722030.433	4294232.433	6952	09-Jan-14	ALEX192014B.SSF	419034.41	51172
722032.216	4294231.397	6748	09-Jan-14	ALEX192014B.SSF	419035.97	51173
722033.181	4294230.797	5587	09-Jan-14	ALEX192014B.SSF	419036.918	51174
722034.219	4294229.831	6022	09-Jan-14	ALEX192014B.SSF	419038.056	51175
722034.875	4294229.116	6530	09-Jan-14	ALEX192014B.SSF	419038.893	51176
722036.131	4294228.35	5922	09-Jan-14	ALEX192014B.SSF	419040.064	51177
722037.09	4294227.896	5820	09-Jan-14	ALEX192014B.SSF	419040.977	51178
722037.942	4294227.23	5914	09-Jan-14	ALEX192014B.SSF	419042.054	51179
722039.528	4294225.875	7030	09-Jan-14	ALEX192014B.SSF	419044.06	51181
722040.307	4294225.395	6647	09-Jan-14	ALEX192014B.SSF	419044.874	51182
722041.287	4294224.405	6221	09-Jan-14	ALEX192014B.SSF	419046.038	51183
722041.98	4294223.649	7555	09-Jan-14	ALEX192014B.SSF	419046.846	51184
722043.163	4294222.93	7739	09-Jan-14	ALEX192014B.SSF	419047.936	51185
722044.21	4294222.583	6974	09-Jan-14	ALEX192014B.SSF	419048.929	51186
722045.062	4294221.947	6663	09-Jan-14	ALEX192014B.SSF	419049.911	51187
722045.869	4294220.985	7095	09-Jan-14	ALEX192014B.SSF	419050.929	51188
722047.054	4294220.194	7263	09-Jan-14	ALEX192014B.SSF	419052.08	51189
722047.817	4294219.679	6766	09-Jan-14	ALEX192014B.SSF	419052.919	51190
722048.545	4294218.892	6791	09-Jan-14	ALEX192014B.SSF	419054.058	51191
722049.167	4294218.273	7878	09-Jan-14	ALEX192014B.SSF	419054.864	51192
722050.426	4294217.568	6499	09-Jan-14	ALEX192014B.SSF	419056.1	51193
722051.203	4294217.016	6304	09-Jan-14	ALEX192014B.SSF	419056.933	51194
722052.02	4294216.043	6826	09-Jan-14	ALEX192014B.SSF	419057.985	51195
722052.882	4294215.319	7616	09-Jan-14	ALEX192014B.SSF	419058.833	51196

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722054.229	4294214.8	7664	09-Jan-14	ALEX192014B.SSF	419059.966	51197
722055.071	4294214.291	7976	09-Jan-14	ALEX192014B.SSF	419060.953	51198
722055.826	4294213.165	7064	09-Jan-14	ALEX192014B.SSF	419062.058	51199
722056.604	4294212.39	7736	09-Jan-14	ALEX192014B.SSF	419062.935	51200
722057.829	4294211.726	6914	09-Jan-14	ALEX192014B.SSF	419064.062	51201
722058.572	4294211.086	7368	09-Jan-14	ALEX192014B.SSF	419064.946	51202
722059.093	4294210.213	6672	09-Jan-14	ALEX192014B.SSF	419066.026	51203
722059.856	4294209.711	6648	09-Jan-14	ALEX192014B.SSF	419066.979	51204
722060.852	4294209.27	6012	09-Jan-14	ALEX192014B.SSF	419068.002	51205
722060.956	4294208.63	6279	09-Jan-14	ALEX192014B.SSF	419068.862	51206
722060.4	4294207.572	6709	09-Jan-14	ALEX192014B.SSF	419070.063	51207
722059.847	4294206.808	6657	09-Jan-14	ALEX192014B.SSF	419071.005	51208
722058.324	4294207.554	7391	09-Jan-14	ALEX192014B.SSF	419072.995	51210
722057.439	4294208.592	6797	09-Jan-14	ALEX192014B.SSF	419074.043	51211
722056.344	4294209.437	6529	09-Jan-14	ALEX192014B.SSF	419074.996	51212
722055.067	4294210.111	7842	09-Jan-14	ALEX192014B.SSF	419076.033	51213
722054.099	4294210.87	6940	09-Jan-14	ALEX192014B.SSF	419076.991	51214
722053.27	4294211.847	7015	09-Jan-14	ALEX192014B.SSF	419078.023	51215
722052.305	4294212.696	7153	09-Jan-14	ALEX192014B.SSF	419078.997	51216
722051.095	4294213.466	7698	09-Jan-14	ALEX192014B.SSF	419080.043	51217
722050.077	4294213.99	7144	09-Jan-14	ALEX192014B.SSF	419080.95	51218
722048.989	4294214.669	6736	09-Jan-14	ALEX192014B.SSF	419082.052	51219
722048.258	4294215.436	7234	09-Jan-14	ALEX192014B.SSF	419082.943	51220
722047.416	4294216.594	6668	09-Jan-14	ALEX192014B.SSF	419083.989	51221
722046.467	4294217.415	7397	09-Jan-14	ALEX192014B.SSF	419084.926	51222
722045.273	4294218.021	8359	09-Jan-14	ALEX192014B.SSF	419086.022	51223
722044.278	4294218.704	6829	09-Jan-14	ALEX192014B.SSF	419087.015	51224
722043.407	4294219.624	6507	09-Jan-14	ALEX192014B.SSF	419087.979	51225
722042.547	4294220.531	7957	09-Jan-14	ALEX192014B.SSF	419088.864	51226
722041.247	4294221.434	7059	09-Jan-14	ALEX192014B.SSF	419090.149	51227
722040.582	4294221.885	7434	09-Jan-14	ALEX192014B.SSF	419090.942	51228
722039.968	4294222.741	7798	09-Jan-14	ALEX192014B.SSF	419092.002	51229
722039.179	4294223.38	7499	09-Jan-14	ALEX192014B.SSF	419092.934	51230
722038.19	4294223.935	7365	09-Jan-14	ALEX192014B.SSF	419093.962	51231
722037.388	4294224.5	6641	09-Jan-14	ALEX192014B.SSF	419094.935	51232
722036.488	4294225.457	7000	09-Jan-14	ALEX192014B.SSF	419096.008	51233
722035.747	4294226.177	6850	09-Jan-14	ALEX192014B.SSF	419096.939	51234
722034.769	4294226.67	6722	09-Jan-14	ALEX192014B.SSF	419098.011	51235
722033.817	4294227.179	6660	09-Jan-14	ALEX192014B.SSF	419098.953	51236
722032.918	4294227.931	6915	09-Jan-14	ALEX192014B.SSF	419100.006	51237
722032.272	4294228.525	6978	09-Jan-14	ALEX192014B.SSF	419100.793	51238
722031.273	4294229.222	5797	09-Jan-14	ALEX192014B.SSF	419101.883	51239
722030.444	4294229.687	5758	09-Jan-14	ALEX192014B.SSF	419102.81	51240
722029.424	4294230.509	5901	09-Jan-14	ALEX192014B.SSF	419103.914	51241
722028.563	4294231.25	6094	09-Jan-14	ALEX192014B.SSF	419104.868	51242
722027.458	4294231.804	6260	09-Jan-14	ALEX192014B.SSF	419105.995	51243
722026.392	4294232.223	7235	09-Jan-14	ALEX192014B.SSF	419106.932	51244

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722024.382	4294234.065	7464	09-Jan-14	ALEX192014B.SSF	419108.924	51246
722023.082	4294234.845	7356	09-Jan-14	ALEX192014B.SSF	419110.087	51247
722022.207	4294235.366	7449	09-Jan-14	ALEX192014B.SSF	419110.938	51248
722021.399	4294236.254	7772	09-Jan-14	ALEX192014B.SSF	419111.946	51249
722020.622	4294237.231	7073	09-Jan-14	ALEX192014B.SSF	419112.866	51250
722019.448	4294238.019	6628	09-Jan-14	ALEX192014B.SSF	419113.932	51251
722018.129	4294238.407	7687	09-Jan-14	ALEX192014B.SSF	419114.939	51252
722017.088	4294238.915	7231	09-Jan-14	ALEX192014B.SSF	419115.932	51253
722016.475	4294239.758	7117	09-Jan-14	ALEX192014B.SSF	419116.834	51254
722015.642	4294240.898	8229	09-Jan-14	ALEX192014B.SSF	419117.924	51255
722014.493	4294241.654	7097	09-Jan-14	ALEX192014B.SSF	419118.928	51256
722013.292	4294242.172	7444	09-Jan-14	ALEX192014B.SSF	419119.981	51257
722012.664	4294242.583	6241	09-Jan-14	ALEX192014B.SSF	419120.827	51258
722011.721	4294243.535	6600	09-Jan-14	ALEX192014B.SSF	419122.033	51259
722011.007	4294244.303	7320	09-Jan-14	ALEX192014B.SSF	419122.794	51260
722009.895	4294245.224	7650	09-Jan-14	ALEX192014B.SSF	419123.887	51261
722008.894	4294245.679	6832	09-Jan-14	ALEX192014B.SSF	419124.805	51262
722007.81	4294246.211	6118	09-Jan-14	ALEX192014B.SSF	419126.049	51263
722007.238	4294246.824	6719	09-Jan-14	ALEX192014B.SSF	419126.833	51264
722006.166	4294248.015	6690	09-Jan-14	ALEX192014B.SSF	419128.069	51265
722005.119	4294248.678	5962	09-Jan-14	ALEX192014B.SSF	419128.966	51266
722003.817	4294249.183	6210	09-Jan-14	ALEX192014B.SSF	419130.01	51267
722002.849	4294249.761	5272	09-Jan-14	ALEX192014B.SSF	419130.928	51268
722002.081	4294250.704	5876	09-Jan-14	ALEX192014B.SSF	419131.933	51269
722001.532	4294251.343	5720	09-Jan-14	ALEX192014B.SSF	419132.808	51270
722000.655	4294251.85	5632	09-Jan-14	ALEX192014B.SSF	419134.006	51271
721999.819	4294252.237	6071	09-Jan-14	ALEX192014B.SSF	419134.809	51272
721998.575	4294253.237	6497	09-Jan-14	ALEX192014B.SSF	419136.047	51273
721997.895	4294254.02	6454	09-Jan-14	ALEX192014B.SSF	419136.85	51274
721996.876	4294254.808	6293	09-Jan-14	ALEX192014B.SSF	419137.906	51275
721995.916	4294255.155	6343	09-Jan-14	ALEX192014B.SSF	419138.969	51276
721995.447	4294255.695	5753	09-Jan-14	ALEX192014B.SSF	419140.007	51277
721995.057	4294256.146	5966	09-Jan-14	ALEX192014B.SSF	419140.799	51278
721994.424	4294255.982	6152	09-Jan-14	ALEX192014B.SSF	419142.065	51279
721994.188	4294255.401	6728	09-Jan-14	ALEX192014B.SSF	419142.859	51280
721994.268	4294254.848	6482	09-Jan-14	ALEX192014B.SSF	419143.903	51281
721995.098	4294254.674	6180	09-Jan-14	ALEX192014B.SSF	419144.819	51282
721996.173	4294254.282	5542	09-Jan-14	ALEX192014B.SSF	419145.974	51283
721996.686	4294253.649	5465	09-Jan-14	ALEX192014B.SSF	419146.861	51284
721997.253	4294252.976	5774	09-Jan-14	ALEX192014B.SSF	419147.932	51285
721997.894	4294252.766	6120	09-Jan-14	ALEX192014B.SSF	419148.833	51286
721999.006	4294252.277	5745	09-Jan-14	ALEX192014B.SSF	419150.09	51287
721999.75	4294251.535	5901	09-Jan-14	ALEX192014B.SSF	419150.99	51288
722000.693	4294250.749	6027	09-Jan-14	ALEX192014B.SSF	419152.04	51289
722001.803	4294250.284	6052	09-Jan-14	ALEX192014B.SSF	419152.981	51290
722002.829	4294249.574	5939	09-Jan-14	ALEX192014B.SSF	419153.984	51291

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722003.592	4294248.815	6498	09-Jan-14	ALEX192014B.SSF	419154.923	51292
722004.659	4294248.093	7504	09-Jan-14	ALEX192014B.SSF	419155.995	51293
722005.71	4294247.719	7036	09-Jan-14	ALEX192014B.SSF	419156.843	51294
722007.021	4294246.951	6619	09-Jan-14	ALEX192014B.SSF	419158.153	51295
722007.515	4294246.427	6304	09-Jan-14	ALEX192014B.SSF	419158.92	51296
722008.459	4294245.892	6136	09-Jan-14	ALEX192014B.SSF	419159.931	51297
722009.537	4294245.384	7684	09-Jan-14	ALEX192014B.SSF	419160.817	51298
722010.596	4294244.444	7141	09-Jan-14	ALEX192014B.SSF	419161.97	51299
722011.324	4294243.57	7455	09-Jan-14	ALEX192014B.SSF	419162.919	51300
722012.428	4294242.835	7353	09-Jan-14	ALEX192014B.SSF	419163.923	51301
722013.474	4294242.317	7478	09-Jan-14	ALEX192014B.SSF	419164.915	51302
722014.528	4294241.36	8289	09-Jan-14	ALEX192014B.SSF	419166.166	51303
722015.09	4294240.576	7652	09-Jan-14	ALEX192014B.SSF	419166.948	51304
722016.052	4294239.83	7433	09-Jan-14	ALEX192014B.SSF	419167.95	51305
722017.206	4294239.409	6868	09-Jan-14	ALEX192014B.SSF	419168.869	51306
722018.242	4294238.619	6877	09-Jan-14	ALEX192014B.SSF	419169.955	51307
722018.796	4294237.771	6059	09-Jan-14	ALEX192014B.SSF	419170.836	51308
722019.785	4294236.931	7447	09-Jan-14	ALEX192014B.SSF	419171.937	51309
722020.816	4294236.409	6481	09-Jan-14	ALEX192014B.SSF	419172.927	51310
722021.749	4294235.665	7140	09-Jan-14	ALEX192014B.SSF	419173.934	51311
722022.538	4294234.651	7005	09-Jan-14	ALEX192014B.SSF	419174.87	51312
722023.437	4294233.848	6311	09-Jan-14	ALEX192014B.SSF	419175.851	51313
722024.551	4294233.308	6498	09-Jan-14	ALEX192014B.SSF	419176.834	51314
722025.658	4294232.727	7114	09-Jan-14	ALEX192014B.SSF	419177.847	51315
722026.374	4294231.995	7718	09-Jan-14	ALEX192014B.SSF	419178.723	51316
722027.124	4294230.931	7779	09-Jan-14	ALEX192014B.SSF	419179.836	51317
722028.12	4294230.137	7225	09-Jan-14	ALEX192014B.SSF	419180.841	51318
722029.548	4294229.501	5886	09-Jan-14	ALEX192014B.SSF	419181.922	51319
722030.637	4294228.997	6033	09-Jan-14	ALEX192014B.SSF	419182.875	51320
722031.543	4294228.226	6117	09-Jan-14	ALEX192014B.SSF	419183.884	51321
722032.308	4294227.298	5369	09-Jan-14	ALEX192014B.SSF	419184.923	51322
722033.331	4294226.549	5952	09-Jan-14	ALEX192014B.SSF	419185.94	51323
722034.269	4294226.047	5816	09-Jan-14	ALEX192014B.SSF	419186.842	51324
722035.173	4294225.403	5836	09-Jan-14	ALEX192014B.SSF	419187.888	51325
722035.733	4294224.632	5960	09-Jan-14	ALEX192014B.SSF	419188.928	51326
722036.422	4294224.154	6150	09-Jan-14	ALEX192014B.SSF	419189.892	51327
722037.436	4294223.839	6457	09-Jan-14	ALEX192014B.SSF	419190.858	51328
722038.5	4294223.282	7044	09-Jan-14	ALEX192014B.SSF	419191.882	51329
722039.43	4294222.353	5871	09-Jan-14	ALEX192014B.SSF	419192.857	51330
722040.238	4294221.388	7526	09-Jan-14	ALEX192014B.SSF	419193.881	51331
722041.249	4294220.632	6981	09-Jan-14	ALEX192014B.SSF	419194.855	51332
722042.486	4294219.721	7145	09-Jan-14	ALEX192014B.SSF	419195.956	51333
722043.435	4294218.901	7366	09-Jan-14	ALEX192014B.SSF	419196.854	51334
722044.524	4294218.036	7421	09-Jan-14	ALEX192014B.SSF	419197.891	51335
722045.748	4294217.603	8305	09-Jan-14	ALEX192014B.SSF	419198.927	51336
722046.662	4294217.287	7866	09-Jan-14	ALEX192014B.SSF	419199.971	51337
722047.26	4294216.695	7006	09-Jan-14	ALEX192014B.SSF	419200.881	51338

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722048.158	4294215.806	7271	09-Jan-14	ALEX192014B.SSF	419201.927	51339
722049.382	4294215.193	7848	09-Jan-14	ALEX192014B.SSF	419202.885	51340
722050.472	4294214.709	7992	09-Jan-14	ALEX192014B.SSF	419203.885	51341
722051.231	4294213.939	8448	09-Jan-14	ALEX192014B.SSF	419204.902	51342
722051.909	4294213.101	8022	09-Jan-14	ALEX192014B.SSF	419205.953	51343
722052.626	4294212.718	6985	09-Jan-14	ALEX192014B.SSF	419206.803	51344
722053.52	4294211.974	6426	09-Jan-14	ALEX192014B.SSF	419207.962	51345
722053.97	4294211.233	6916	09-Jan-14	ALEX192014B.SSF	419208.858	51346
722054.823	4294210.451	6289	09-Jan-14	ALEX192014B.SSF	419209.955	51347
722055.851	4294209.991	5868	09-Jan-14	ALEX192014B.SSF	419210.896	51348
722056.573	4294209.428	6286	09-Jan-14	ALEX192014B.SSF	419211.942	51349
722056.792	4294208.889	6197	09-Jan-14	ALEX192014B.SSF	419212.783	51350
722057.393	4294208.374	6029	09-Jan-14	ALEX192014B.SSF	419213.944	51351
722057.987	4294208.12	6376	09-Jan-14	ALEX192014B.SSF	419214.772	51352
722058.267	4294207.649	7294	09-Jan-14	ALEX192014B.SSF	419215.942	51353
722058.304	4294206.833	6473	09-Jan-14	ALEX192014B.SSF	419216.892	51354
722058.054	4294205.891	6448	09-Jan-14	ALEX192014B.SSF	419217.984	51355
722057.36	4294205.754	5782	09-Jan-14	ALEX192014B.SSF	419218.826	51356
722056.839	4294205.78	6308	09-Jan-14	ALEX192014B.SSF	419219.941	51357
722056.81	4294205.725	6437	09-Jan-14	ALEX192014B.SSF	419220.787	51358
722056.817	4294205.67	7279	09-Jan-14	ALEX192014B.SSF	419221.886	51359
722056.918	4294205.558	7129	09-Jan-14	ALEX192014B.SSF	419222.822	51360
722056.976	4294205.419	6552	09-Jan-14	ALEX192014B.SSF	419223.941	51361
722056.931	4294205.395	6168	09-Jan-14	ALEX192014B.SSF	419224.814	51362
722056.912	4294205.392	6372	09-Jan-14	ALEX192014B.SSF	419225.92	51363
722056.86	4294205.385	6033	09-Jan-14	ALEX192014B.SSF	419226.815	51364
722056.796	4294205.358	6116	09-Jan-14	ALEX192014B.SSF	419227.885	51365
722056.804	4294205.314	6839	09-Jan-14	ALEX192014B.SSF	419228.819	51366
722056.815	4294205.269	7319	09-Jan-14	ALEX192014B.SSF	419229.887	51367
722056.816	4294205.229	7830	09-Jan-14	ALEX192014B.SSF	419230.933	51368
722056.823	4294205.212	7807	09-Jan-14	ALEX192014B.SSF	419231.932	51369
722056.826	4294205.209	6961	09-Jan-14	ALEX192014B.SSF	419232.905	51370
722056.815	4294205.195	6690	09-Jan-14	ALEX192014B.SSF	419233.941	51371
722056.826	4294205.185	6562	09-Jan-14	ALEX192014B.SSF	419234.905	51372
722056.847	4294205.172	6050	09-Jan-14	ALEX192014B.SSF	419235.856	51373
722056.805	4294205.149	6274	09-Jan-14	ALEX192014B.SSF	419236.753	51374
722056.739	4294205.123	6698	09-Jan-14	ALEX192014B.SSF	419237.859	51375
722056.681	4294205.347	6234	09-Jan-14	ALEX192014B.SSF	419238.802	51376
722056.286	4294205.913	6688	09-Jan-14	ALEX192014B.SSF	419239.885	51377
722055.434	4294206.37	6412	09-Jan-14	ALEX192014B.SSF	419240.874	51378
722054.398	4294206.738	6583	09-Jan-14	ALEX192014B.SSF	419241.904	51379
722053.566	4294207.37	6955	09-Jan-14	ALEX192014B.SSF	419242.839	51380
722052.802	4294208.324	6839	09-Jan-14	ALEX192014B.SSF	419243.96	51381
722052.119	4294208.903	7709	09-Jan-14	ALEX192014B.SSF	419244.8	51382
722050.723	4294209.615	8107	09-Jan-14	ALEX192014B.SSF	419245.973	51383
722049.607	4294210.106	7336	09-Jan-14	ALEX192014B.SSF	419246.799	51384
722048.295	4294210.987	7984	09-Jan-14	ALEX192014B.SSF	419247.907	51385

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722047.416	4294211.884	7936	09-Jan-14	ALEX192014B.SSF	419248.837	51386
722046.45	4294212.921	8164	09-Jan-14	ALEX192014B.SSF	419249.893	51387
722045.463	4294213.71	7651	09-Jan-14	ALEX192014B.SSF	419250.744	51388
722044.001	4294214.568	7822	09-Jan-14	ALEX192014B.SSF	419251.914	51389
722043.129	4294215.215	8555	09-Jan-14	ALEX192014B.SSF	419252.764	51390
722041.889	4294216.543	7209	09-Jan-14	ALEX192014B.SSF	419253.955	51391
722041.1	4294217.509	7802	09-Jan-14	ALEX192014B.SSF	419254.724	51392
722040.088	4294218.693	7500	09-Jan-14	ALEX192014B.SSF	419255.831	51393
722039.146	4294219.467	7935	09-Jan-14	ALEX192014B.SSF	419256.748	51394
722037.638	4294220.204	7683	09-Jan-14	ALEX192014B.SSF	419257.933	51395
722036.689	4294220.672	7351	09-Jan-14	ALEX192014B.SSF	419258.775	51396
722035.57	4294221.668	6757	09-Jan-14	ALEX192014B.SSF	419259.957	51397
722035.005	4294222.499	6699	09-Jan-14	ALEX192014B.SSF	419260.836	51398
722034.017	4294223.221	5635	09-Jan-14	ALEX192014B.SSF	419261.957	51399
722032.863	4294223.72	6072	09-Jan-14	ALEX192014B.SSF	419262.827	51400
722031.45	4294224.542	6588	09-Jan-14	ALEX192014B.SSF	419264.112	51401
722030.818	4294225.226	5950	09-Jan-14	ALEX192014B.SSF	419264.829	51402
722029.919	4294226.335	5957	09-Jan-14	ALEX192014B.SSF	419265.947	51403
722029.053	4294226.88	5983	09-Jan-14	ALEX192014B.SSF	419266.757	51404
722027.859	4294227.451	6473	09-Jan-14	ALEX192014B.SSF	419267.887	51405
722027.065	4294228.113	6268	09-Jan-14	ALEX192014B.SSF	419268.84	51406
722026.189	4294229.068	7747	09-Jan-14	ALEX192014B.SSF	419269.85	51407
722025.263	4294229.889	7576	09-Jan-14	ALEX192014B.SSF	419270.8	51408
722024.032	4294230.603	7054	09-Jan-14	ALEX192014B.SSF	419271.836	51409
722022.949	4294231.149	6863	09-Jan-14	ALEX192014B.SSF	419272.755	51410
722021.81	4294232.067	6546	09-Jan-14	ALEX192014B.SSF	419273.869	51411
722020.954	4294232.979	6706	09-Jan-14	ALEX192014B.SSF	419274.773	51412
722019.762	4294234.006	6716	09-Jan-14	ALEX192014B.SSF	419275.921	51413
722018.726	4294234.598	5819	09-Jan-14	ALEX192014B.SSF	419276.835	51414
722017.682	4294235.287	6667	09-Jan-14	ALEX192014B.SSF	419277.923	51415
722016.847	4294236.144	6946	09-Jan-14	ALEX192014B.SSF	419278.829	51416
722015.806	4294237.084	6866	09-Jan-14	ALEX192014B.SSF	419279.857	51417
722014.751	4294237.689	7506	09-Jan-14	ALEX192014B.SSF	419280.771	51418
722013.615	4294238.23	7036	09-Jan-14	ALEX192014B.SSF	419281.833	51419
722012.942	4294238.707	7118	09-Jan-14	ALEX192014B.SSF	419282.77	51420
722012.229	4294239.559	7084	09-Jan-14	ALEX192014B.SSF	419283.814	51421
722011.489	4294240.616	7771	09-Jan-14	ALEX192014B.SSF	419284.773	51422
722010.361	4294241.646	7732	09-Jan-14	ALEX192014B.SSF	419285.929	51423
722009.411	4294241.975	7393	09-Jan-14	ALEX192014B.SSF	419286.818	51424
722008.504	4294242.511	7578	09-Jan-14	ALEX192014B.SSF	419287.88	51425
722007.991	4294243.304	7354	09-Jan-14	ALEX192014B.SSF	419288.846	51426
722007.387	4294244.177	6668	09-Jan-14	ALEX192014B.SSF	419289.93	51427
722006.559	4294244.611	6857	09-Jan-14	ALEX192014B.SSF	419290.855	51428
722005.474	4294245.005	7024	09-Jan-14	ALEX192014B.SSF	419291.928	51429
722004.647	4294245.697	8086	09-Jan-14	ALEX192014B.SSF	419292.84	51430
722003.719	4294246.778	6911	09-Jan-14	ALEX192014B.SSF	419293.931	51431
722002.716	4294247.436	6018	09-Jan-14	ALEX192014B.SSF	419294.776	51432

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722000.348	4294248.592	6380	09-Jan-14	ALEX192014B.SSF	419296.744	51434
721999.077	4294249.498	6155	09-Jan-14	ALEX192014B.SSF	419297.879	51435
721998.311	4294250.506	5698	09-Jan-14	ALEX192014B.SSF	419298.799	51436
721997.759	4294251.516	5462	09-Jan-14	ALEX192014B.SSF	419299.89	51437
721996.769	4294252.112	5802	09-Jan-14	ALEX192014B.SSF	419300.786	51438
721995.262	4294252.74	5919	09-Jan-14	ALEX192014B.SSF	419301.929	51439
721994.24	4294253.201	5759	09-Jan-14	ALEX192014B.SSF	419302.84	51440
721993.325	4294253.774	5677	09-Jan-14	ALEX192014B.SSF	419303.922	51441
721992.871	4294253.967	5818	09-Jan-14	ALEX192014B.SSF	419304.799	51442
721992.501	4294254.022	5800	09-Jan-14	ALEX192014B.SSF	419305.836	51443
721992.487	4294254.227	5317	09-Jan-14	ALEX192014B.SSF	419306.68	51444
721992.548	4294254.527	5646	09-Jan-14	ALEX192014B.SSF	419307.83	51445
721992.544	4294254.531	5733	09-Jan-14	ALEX192014B.SSF	419308.684	51446
721992.649	4294254.396	6000	09-Jan-14	ALEX192014B.SSF	419309.786	51447
721992.792	4294254.418	6487	09-Jan-14	ALEX192014B.SSF	419310.778	51448
721992.873	4294254.58	5973	09-Jan-14	ALEX192014B.SSF	419311.841	51449
721992.851	4294254.671	6044	09-Jan-14	ALEX192014B.SSF	419312.79	51450
721992.818	4294254.619	5942	09-Jan-14	ALEX192014B.SSF	419313.844	51451
721992.929	4294254.175	5397	09-Jan-14	ALEX192014B.SSF	419314.784	51452
721993.549	4294253.249	5961	09-Jan-14	ALEX192014B.SSF	419315.935	51453
721994.238	4294252.508	6053	09-Jan-14	ALEX192014B.SSF	419316.787	51454
721995.306	4294251.643	6470	09-Jan-14	ALEX192014B.SSF	419317.922	51455
721996.213	4294251.118	7017	09-Jan-14	ALEX192014B.SSF	419318.821	51456
721997.122	4294250.372	5774	09-Jan-14	ALEX192014B.SSF	419319.927	51457
721997.805	4294249.746	5775	09-Jan-14	ALEX192014B.SSF	419320.832	51458
721998.766	4294249.214	6128	09-Jan-14	ALEX192014B.SSF	419321.865	51459
721999.725	4294248.75	6812	09-Jan-14	ALEX192014B.SSF	419322.791	51460
722000.609	4294248.027	6473	09-Jan-14	ALEX192014B.SSF	419323.944	51461
722001.275	4294247.249	6298	09-Jan-14	ALEX192014B.SSF	419324.842	51462
722002.071	4294246.419	6172	09-Jan-14	ALEX192014B.SSF	419325.859	51463
722003.141	4294245.809	7123	09-Jan-14	ALEX192014B.SSF	419326.83	51464
722004.381	4294245.175	6820	09-Jan-14	ALEX192014B.SSF	419327.909	51465
722005.239	4294244.382	7495	09-Jan-14	ALEX192014B.SSF	419328.829	51466
722006.029	4294243.302	7753	09-Jan-14	ALEX192014B.SSF	419329.87	51467
722006.924	4294242.59	6348	09-Jan-14	ALEX192014B.SSF	419330.786	51468
722008.134	4294242.108	7047	09-Jan-14	ALEX192014B.SSF	419331.864	51469
722008.838	4294241.637	7581	09-Jan-14	ALEX192014B.SSF	419332.74	51470
722009.569	4294240.797	6365	09-Jan-14	ALEX192014B.SSF	419333.788	51471
722010.295	4294240.036	6661	09-Jan-14	ALEX192014B.SSF	419334.749	51472
722011.506	4294239.255	6255	09-Jan-14	ALEX192014B.SSF	419335.875	51473
722012.555	4294238.558	6963	09-Jan-14	ALEX192014B.SSF	419336.836	51474
722013.538	4294237.632	6841	09-Jan-14	ALEX192014B.SSF	419337.884	51475
722014.299	4294236.711	6195	09-Jan-14	ALEX192014B.SSF	419338.831	51476
722015.297	4294235.911	7038	09-Jan-14	ALEX192014B.SSF	419339.875	51477
722016.384	4294235.394	7789	09-Jan-14	ALEX192014B.SSF	419340.73	51478
722017.864	4294234.648	6987	09-Jan-14	ALEX192014B.SSF	419341.945	51479

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722019.511	4294232.655	7516	09-Jan-14	ALEX192014B.SSF	419343.895	51481
722020.258	4294231.948	7459	09-Jan-14	ALEX192014B.SSF	419344.809	51482
722021.448	4294231.487	6904	09-Jan-14	ALEX192014B.SSF	419345.939	51483
722022.262	4294230.971	6736	09-Jan-14	ALEX192014B.SSF	419346.746	51484
722023.199	4294229.943	5764	09-Jan-14	ALEX192014B.SSF	419347.923	51485
722023.884	4294229.399	6609	09-Jan-14	ALEX192014B.SSF	419348.727	51486
722025.038	4294228.841	8282	09-Jan-14	ALEX192014B.SSF	419349.819	51487
722025.969	4294228.087	6810	09-Jan-14	ALEX192014B.SSF	419350.782	51488
722026.834	4294226.95	6502	09-Jan-14	ALEX192014B.SSF	419351.873	51489
722027.592	4294226.269	5915	09-Jan-14	ALEX192014B.SSF	419352.78	51490
722028.833	4294225.72	6012	09-Jan-14	ALEX192014B.SSF	419353.868	51491
722029.775	4294225.309	6214	09-Jan-14	ALEX192014B.SSF	419354.774	51492
722030.699	4294224.601	5750	09-Jan-14	ALEX192014B.SSF	419355.826	51493
722031.39	4294223.785	5889	09-Jan-14	ALEX192014B.SSF	419356.804	51494
722032.325	4294223.108	6708	09-Jan-14	ALEX192014B.SSF	419357.881	51495
722033.301	4294222.944	6417	09-Jan-14	ALEX192014B.SSF	419358.809	51496
722034.279	4294222.731	6284	09-Jan-14	ALEX192014B.SSF	419359.922	51497
722034.991	4294221.943	6401	09-Jan-14	ALEX192014B.SSF	419360.774	51498
722036.022	4294220.819	5715	09-Jan-14	ALEX192014B.SSF	419361.873	51499
722037.046	4294220.264	6943	09-Jan-14	ALEX192014B.SSF	419362.718	51500
722038.35	4294219.718	6746	09-Jan-14	ALEX192014B.SSF	419363.821	51501
722039.16	4294219.219	7086	09-Jan-14	ALEX192014B.SSF	419364.727	51502
722039.885	4294218.349	7531	09-Jan-14	ALEX192014B.SSF	419365.8	51503
722040.788	4294217.594	7432	09-Jan-14	ALEX192014B.SSF	419366.701	51504
722042.019	4294216.87	7078	09-Jan-14	ALEX192014B.SSF	419367.792	51505
722043.08	4294216.086	6779	09-Jan-14	ALEX192014B.SSF	419368.759	51506
722044.226	4294215.086	7185	09-Jan-14	ALEX192014B.SSF	419369.779	51507
722045.266	4294214.212	7136	09-Jan-14	ALEX192014B.SSF	419370.783	51508
722046.322	4294213.383	7574	09-Jan-14	ALEX192014B.SSF	419371.931	51509
722047.052	4294212.573	7773	09-Jan-14	ALEX192014B.SSF	419372.825	51510
722047.808	4294211.291	7013	09-Jan-14	ALEX192014B.SSF	419373.984	51511
722048.709	4294210.614	7453	09-Jan-14	ALEX192014B.SSF	419374.83	51512
722049.925	4294210.102	7563	09-Jan-14	ALEX192014B.SSF	419375.867	51513
722050.828	4294209.449	7110	09-Jan-14	ALEX192014B.SSF	419376.782	51514
722051.644	4294208.27	6367	09-Jan-14	ALEX192014B.SSF	419377.889	51515
722052.531	4294207.613	7382	09-Jan-14	ALEX192014B.SSF	419378.796	51516
722053.524	4294207.44	7185	09-Jan-14	ALEX192014B.SSF	419379.836	51517
722054.221	4294207.196	7736	09-Jan-14	ALEX192014B.SSF	419380.857	51518
722054.79	4294206.484	7574	09-Jan-14	ALEX192014B.SSF	419381.851	51519
722055.595	4294205.954	8013	09-Jan-14	ALEX192014B.SSF	419382.765	51520
722056.484	4294205.426	6833	09-Jan-14	ALEX192014B.SSF	419383.857	51521
722056.247	4294205.037	7138	09-Jan-14	ALEX192014B.SSF	419384.769	51522
722055.106	4294204.6	8354	09-Jan-14	ALEX192014B.SSF	419385.864	51523
722053.754	4294204.476	6948	09-Jan-14	ALEX192014B.SSF	419386.791	51524
722052.245	4294204.657	6837	09-Jan-14	ALEX192014B.SSF	419387.855	51525
722051.381	4294205.007	6779	09-Jan-14	ALEX192014B.SSF	419388.777	51526

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722050.719	4294205.755	6855	09-Jan-14	ALEX192014B.SSF	419389.804	51527
722050.118	4294206.784	7893	09-Jan-14	ALEX192014B.SSF	419390.759	51528
722049.07	4294207.904	8063	09-Jan-14	ALEX192014B.SSF	419391.987	51529
722048.065	4294208.27	7445	09-Jan-14	ALEX192014B.SSF	419392.822	51530
722046.854	4294208.757	7141	09-Jan-14	ALEX192014B.SSF	419393.986	51531
722046.189	4294209.394	7095	09-Jan-14	ALEX192014B.SSF	419394.82	51532
722045.39	4294210.461	8103	09-Jan-14	ALEX192014B.SSF	419395.847	51533
722044.57	4294211.245	7666	09-Jan-14	ALEX192014B.SSF	419396.775	51534
722043.399	4294211.781	7616	09-Jan-14	ALEX192014B.SSF	419397.91	51535
722042.524	4294212.134	6374	09-Jan-14	ALEX192014B.SSF	419398.855	51536
722041.871	4294212.842	7353	09-Jan-14	ALEX192014B.SSF	419399.891	51537
722041.382	4294213.569	8078	09-Jan-14	ALEX192014B.SSF	419400.819	51538
722040.402	4294214.041	8079	09-Jan-14	ALEX192014B.SSF	419401.893	51539
722039.331	4294214.383	7240	09-Jan-14	ALEX192014B.SSF	419402.795	51540
722038.182	4294215.22	7030	09-Jan-14	ALEX192014B.SSF	419403.848	51541
722037.344	4294216.225	7157	09-Jan-14	ALEX192014B.SSF	419404.721	51542
722036.273	4294217.371	6859	09-Jan-14	ALEX192014B.SSF	419405.864	51543
722035.271	4294217.991	6127	09-Jan-14	ALEX192014B.SSF	419406.811	51544
722034.268	4294218.511	6631	09-Jan-14	ALEX192014B.SSF	419407.867	51545
722033.574	4294219.134	7207	09-Jan-14	ALEX192014B.SSF	419408.772	51546
722032.736	4294220.166	7382	09-Jan-14	ALEX192014B.SSF	419409.904	51547
722031.818	4294220.85	7095	09-Jan-14	ALEX192014B.SSF	419410.84	51548
722030.459	4294221.368	6573	09-Jan-14	ALEX192014B.SSF	419411.852	51549
722029.366	4294221.77	5933	09-Jan-14	ALEX192014B.SSF	419412.788	51550
722028.637	4294222.382	5782	09-Jan-14	ALEX192014B.SSF	419413.835	51551
722027.889	4294223.026	5697	09-Jan-14	ALEX192014B.SSF	419414.828	51552
722026.9	4294223.63	5777	09-Jan-14	ALEX192014B.SSF	419415.886	51553
722026.295	4294224.273	5785	09-Jan-14	ALEX192014B.SSF	419416.737	51554
722025.605	4294225.082	6066	09-Jan-14	ALEX192014B.SSF	419417.827	51555
722024.901	4294225.532	6234	09-Jan-14	ALEX192014B.SSF	419418.751	51556
722023.899	4294226.21	6988	09-Jan-14	ALEX192014B.SSF	419419.936	51557
722023.378	4294226.832	7687	09-Jan-14	ALEX192014B.SSF	419420.767	51558
722022.531	4294227.527	6841	09-Jan-14	ALEX192014B.SSF	419421.829	51559
722021.519	4294228.043	5970	09-Jan-14	ALEX192014B.SSF	419422.738	51560
722020.535	4294228.791	7143	09-Jan-14	ALEX192014B.SSF	419423.765	51561
722019.882	4294229.612	7366	09-Jan-14	ALEX192014B.SSF	419424.735	51562
722018.913	4294230.438	6761	09-Jan-14	ALEX192014B.SSF	419425.821	51563
722017.782	4294231.037	6340	09-Jan-14	ALEX192014B.SSF	419426.74	51564
722016.715	4294231.686	6655	09-Jan-14	ALEX192014B.SSF	419427.82	51565
722015.954	4294232.381	7273	09-Jan-14	ALEX192014B.SSF	419428.684	51566
722014.795	4294233.488	7458	09-Jan-14	ALEX192014B.SSF	419429.821	51567
722013.63	4294234.343	6304	09-Jan-14	ALEX192014B.SSF	419430.786	51568
722012.193	4294235.045	6436	09-Jan-14	ALEX192014B.SSF	419431.844	51569
722011.211	4294235.62	7129	09-Jan-14	ALEX192014B.SSF	419432.742	51570
722010.185	4294236.627	6252	09-Jan-14	ALEX192014B.SSF	419433.847	51571
722009.307	4294237.668	6843	09-Jan-14	ALEX192014B.SSF	419434.805	51572
722008.218	4294238.682	7050	09-Jan-14	ALEX192014B.SSF	419435.838	51573

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722007.201	4294239.313	7792	09-Jan-14	ALEX192014B.SSF	419436.745	51574
722006.213	4294240.004	7618	09-Jan-14	ALEX192014B.SSF	419437.863	51575
722005.571	4294240.811	6854	09-Jan-14	ALEX192014B.SSF	419438.78	51576
722004.74	4294241.741	6153	09-Jan-14	ALEX192014B.SSF	419439.805	51577
722003.781	4294242.486	6072	09-Jan-14	ALEX192014B.SSF	419440.74	51578
722002.661	4294243.217	5832	09-Jan-14	ALEX192014B.SSF	419441.855	51579
722001.919	4294244.057	6310	09-Jan-14	ALEX192014B.SSF	419442.799	51580
722001.066	4294245.103	6236	09-Jan-14	ALEX192014B.SSF	419443.811	51581
721999.902	4294245.947	7289	09-Jan-14	ALEX192014B.SSF	419444.81	51582
721998.621	4294246.599	6232	09-Jan-14	ALEX192014B.SSF	419445.828	51583
721997.725	4294247.323	5682	09-Jan-14	ALEX192014B.SSF	419446.759	51584
721996.831	4294248.345	5640	09-Jan-14	ALEX192014B.SSF	419447.896	51585
721995.858	4294249.042	5895	09-Jan-14	ALEX192014B.SSF	419448.827	51586
721994.59	4294249.594	6440	09-Jan-14	ALEX192014B.SSF	419449.881	51587
721993.735	4294250.114	5775	09-Jan-14	ALEX192014B.SSF	419450.765	51588
721992.873	4294250.907	5768	09-Jan-14	ALEX192014B.SSF	419451.791	51589
721991.952	4294251.52	5967	09-Jan-14	ALEX192014B.SSF	419452.764	51590
721991.015	4294251.817	6482	09-Jan-14	ALEX192014B.SSF	419453.8	51591
721990.501	4294251.95	6750	09-Jan-14	ALEX192014B.SSF	419454.703	51592
721990.156	4294252.126	6037	09-Jan-14	ALEX192014B.SSF	419455.821	51593
721990.208	4294252.05	5841	09-Jan-14	ALEX192014B.SSF	419456.72	51594
721990.622	4294251.443	5423	09-Jan-14	ALEX192014B.SSF	419457.827	51595
721991.253	4294250.71	5465	09-Jan-14	ALEX192014B.SSF	419458.738	51596
721992.373	4294250.053	6464	09-Jan-14	ALEX192014B.SSF	419459.852	51597
721993.2	4294249.526	6116	09-Jan-14	ALEX192014B.SSF	419460.741	51598
721993.943	4294248.688	5668	09-Jan-14	ALEX192014B.SSF	419461.798	51599
721994.6	4294247.984	5686	09-Jan-14	ALEX192014B.SSF	419462.704	51600
721995.904	4294247.315	6551	09-Jan-14	ALEX192014B.SSF	419463.82	51601
721997.012	4294246.836	6797	09-Jan-14	ALEX192014B.SSF	419464.701	51602
721998.252	4294245.947	6799	09-Jan-14	ALEX192014B.SSF	419465.862	51603
721999.078	4294245.103	6889	09-Jan-14	ALEX192014B.SSF	419466.776	51604
722000.344	4294244.166	7032	09-Jan-14	ALEX192014B.SSF	419467.873	51605
722001.447	4294243.502	7008	09-Jan-14	ALEX192014B.SSF	419468.736	51606
722002.643	4294242.527	5982	09-Jan-14	ALEX192014B.SSF	419469.869	51607
722003.263	4294241.609	5779	09-Jan-14	ALEX192014B.SSF	419470.752	51608
722004.026	4294240.625	5936	09-Jan-14	ALEX192014B.SSF	419471.764	51609
722005.173	4294239.876	5919	09-Jan-14	ALEX192014B.SSF	419472.801	51610
722006.45	4294239.386	6059	09-Jan-14	ALEX192014B.SSF	419473.846	51611
722007.277	4294238.905	6832	09-Jan-14	ALEX192014B.SSF	419474.743	51612
722008.124	4294238.1	7168	09-Jan-14	ALEX192014B.SSF	419475.751	51613
722009.007	4294237.132	7462	09-Jan-14	ALEX192014B.SSF	419476.739	51614
722010.116	4294236.139	7715	09-Jan-14	ALEX192014B.SSF	419477.811	51615
722011.355	4294235.507	7388	09-Jan-14	ALEX192014B.SSF	419478.756	51616
722012.617	4294234.899	7457	09-Jan-14	ALEX192014B.SSF	419479.84	51617
722013.566	4294234.103	8554	09-Jan-14	ALEX192014B.SSF	419480.739	51618
722014.488	4294232.993	7178	09-Jan-14	ALEX192014B.SSF	419481.781	51619
722015.452	4294232.187	7554	09-Jan-14	ALEX192014B.SSF	419482.7	51620

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722016.682	4294231.489	7018	09-Jan-14	ALEX192014B.SSF	419483.802	51621
722017.504	4294230.921	7034	09-Jan-14	ALEX192014B.SSF	419484.697	51622
722018.533	4294229.814	7698	09-Jan-14	ALEX192014B.SSF	419485.878	51623
722019.437	4294228.847	7264	09-Jan-14	ALEX192014B.SSF	419486.803	51624
722020.383	4294228.067	7966	09-Jan-14	ALEX192014B.SSF	419487.853	51625
722021.074	4294227.369	7691	09-Jan-14	ALEX192014B.SSF	419488.803	51626
722021.751	4294226.804	7443	09-Jan-14	ALEX192014B.SSF	419489.824	51627
722022.558	4294226.431	7590	09-Jan-14	ALEX192014B.SSF	419490.78	51628
722023.818	4294225.954	6367	09-Jan-14	ALEX192014B.SSF	419491.875	51629
722024.757	4294225.395	6183	09-Jan-14	ALEX192014B.SSF	419492.743	51630
722025.538	4294224.431	5978	09-Jan-14	ALEX192014B.SSF	419493.827	51631
722026.29	4294223.744	5733	09-Jan-14	ALEX192014B.SSF	419494.804	51632
722027.365	4294223.202	5632	09-Jan-14	ALEX192014B.SSF	419495.835	51633
722028.44	4294222.448	5890	09-Jan-14	ALEX192014B.SSF	419496.815	51634
722029.205	4294221.296	6993	09-Jan-14	ALEX192014B.SSF	419497.883	51635
722029.968	4294220.561	6458	09-Jan-14	ALEX192014B.SSF	419498.769	51636
722031.097	4294220.151	6142	09-Jan-14	ALEX192014B.SSF	419499.849	51637
722031.971	4294219.852	5903	09-Jan-14	ALEX192014B.SSF	419500.792	51638
722032.716	4294219.028	6353	09-Jan-14	ALEX192014B.SSF	419501.824	51639
722033.492	4294218.369	7468	09-Jan-14	ALEX192014B.SSF	419502.731	51640
722034.558	4294218.026	7417	09-Jan-14	ALEX192014B.SSF	419503.793	51641
722035.394	4294217.71	6774	09-Jan-14	ALEX192014B.SSF	419504.775	51642
722036.07	4294216.935	6613	09-Jan-14	ALEX192014B.SSF	419505.816	51643
722036.776	4294216.241	7533	09-Jan-14	ALEX192014B.SSF	419506.711	51644
722037.869	4294215.792	7493	09-Jan-14	ALEX192014B.SSF	419507.804	51645
722038.658	4294215.497	7153	09-Jan-14	ALEX192014B.SSF	419508.728	51646
722039.531	4294214.698	6258	09-Jan-14	ALEX192014B.SSF	419509.747	51647
722040.283	4294213.546	7714	09-Jan-14	ALEX192014B.SSF	419510.727	51648
722041.264	4294212.544	7058	09-Jan-14	ALEX192014B.SSF	419511.828	51649
722042.212	4294212.138	6924	09-Jan-14	ALEX192014B.SSF	419512.714	51650
722043.201	4294211.569	6681	09-Jan-14	ALEX192014B.SSF	419513.83	51651
722043.797	4294210.871	7250	09-Jan-14	ALEX192014B.SSF	419514.737	51652
722044.868	4294210.088	8292	09-Jan-14	ALEX192014B.SSF	419515.865	51653
722045.899	4294209.739	6603	09-Jan-14	ALEX192014B.SSF	419516.756	51654
722046.899	4294209.241	7290	09-Jan-14	ALEX192014B.SSF	419517.864	51655
722047.587	4294208.468	6742	09-Jan-14	ALEX192014B.SSF	419518.756	51656
722048.56	4294207.572	7505	09-Jan-14	ALEX192014B.SSF	419519.83	51657
722049.574	4294207.109	8146	09-Jan-14	ALEX192014B.SSF	419520.741	51658
722050.687	4294206.462	7436	09-Jan-14	ALEX192014B.SSF	419521.844	51659
722051.417	4294205.718	7829	09-Jan-14	ALEX192014B.SSF	419522.707	51660
722052.441	4294204.826	6697	09-Jan-14	ALEX192014B.SSF	419523.86	51661
722053.231	4294204.421	6684	09-Jan-14	ALEX192014B.SSF	419524.757	51662
722053.954	4294203.803	6621	09-Jan-14	ALEX192014B.SSF	419525.791	51663
722054.108	4294202.944	6455	09-Jan-14	ALEX192014B.SSF	419526.749	51664
722053.621	4294201.957	7733	09-Jan-14	ALEX192014B.SSF	419527.759	51665
722052.942	4294201.349	7123	09-Jan-14	ALEX192014B.SSF	419528.708	51666
722052.236	4294201.503	6821	09-Jan-14	ALEX192014B.SSF	419529.766	51667

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722050.562	4294203.138	7633	09-Jan-14	ALEX192014B.SSF	419531.775	51669
722049.494	4294203.581	6528	09-Jan-14	ALEX192014B.SSF	419532.701	51670
722048.455	4294203.991	7452	09-Jan-14	ALEX192014B.SSF	419533.728	51671
722047.766	4294204.723	7053	09-Jan-14	ALEX192014B.SSF	419534.649	51672
722047.024	4294205.852	6353	09-Jan-14	ALEX192014B.SSF	419535.702	51673
722045.89	4294206.674	6478	09-Jan-14	ALEX192014B.SSF	419536.697	51674
722044.467	4294207.244	7109	09-Jan-14	ALEX192014B.SSF	419537.769	51675
722043.536	4294207.746	7267	09-Jan-14	ALEX192014B.SSF	419538.675	51676
722042.684	4294208.608	7006	09-Jan-14	ALEX192014B.SSF	419539.748	51677
722041.991	4294209.486	7451	09-Jan-14	ALEX192014B.SSF	419540.729	51678
722040.891	4294210.18	7263	09-Jan-14	ALEX192014B.SSF	419541.815	51679
722039.689	4294210.6	6765	09-Jan-14	ALEX192014B.SSF	419542.738	51680
722038.456	4294211.176	6461	09-Jan-14	ALEX192014B.SSF	419543.854	51681
722037.674	4294211.897	6218	09-Jan-14	ALEX192014B.SSF	419544.701	51682
722036.579	4294213.051	7284	09-Jan-14	ALEX192014B.SSF	419545.781	51683
722035.456	4294213.954	7401	09-Jan-14	ALEX192014B.SSF	419546.767	51684
722034.37	4294214.63	5960	09-Jan-14	ALEX192014B.SSF	419547.771	51685
722033.47	4294215.312	6352	09-Jan-14	ALEX192014B.SSF	419548.768	51686
722032.668	4294216.104	6192	09-Jan-14	ALEX192014B.SSF	419549.805	51687
722031.932	4294216.726	6168	09-Jan-14	ALEX192014B.SSF	419550.682	51688
722030.833	4294217.489	6012	09-Jan-14	ALEX192014B.SSF	419551.714	51689
722029.826	4294217.997	6254	09-Jan-14	ALEX192014B.SSF	419552.69	51690
722029.071	4294218.493	5915	09-Jan-14	ALEX192014B.SSF	419553.797	51691
722028.38	4294219.173	6058	09-Jan-14	ALEX192014B.SSF	419554.713	51692
722027.421	4294219.948	6262	09-Jan-14	ALEX192014B.SSF	419555.807	51693
722026.672	4294220.613	6068	09-Jan-14	ALEX192014B.SSF	419556.709	51694
722025.908	4294221.472	6827	09-Jan-14	ALEX192014B.SSF	419557.735	51695
722025.258	4294222.094	6026	09-Jan-14	ALEX192014B.SSF	419558.711	51696
722024.426	4294222.738	6142	09-Jan-14	ALEX192014B.SSF	419559.815	51697
722023.858	4294223.171	5825	09-Jan-14	ALEX192014B.SSF	419560.678	51698
722023.298	4294223.554	5874	09-Jan-14	ALEX192014B.SSF	419561.767	51699
722022.703	4294224.12	6658	09-Jan-14	ALEX192014B.SSF	419562.719	51700
722022.035	4294225.131	6434	09-Jan-14	ALEX192014B.SSF	419563.839	51701
722021.348	4294225.873	7548	09-Jan-14	ALEX192014B.SSF	419564.717	51702
722020.178	4294226.479	7947	09-Jan-14	ALEX192014B.SSF	419565.732	51703
722019.015	4294226.975	7896	09-Jan-14	ALEX192014B.SSF	419566.716	51704
722017.845	4294227.887	7374	09-Jan-14	ALEX192014B.SSF	419567.761	51705
722016.754	4294228.948	7693	09-Jan-14	ALEX192014B.SSF	419568.676	51706
722015.39	4294230.118	8103	09-Jan-14	ALEX192014B.SSF	419569.819	51707
722014.341	4294230.787	8265	09-Jan-14	ALEX192014B.SSF	419570.628	51708
722012.984	4294231.636	7496	09-Jan-14	ALEX192014B.SSF	419571.778	51709
722012.298	4294232.295	8924	09-Jan-14	ALEX192014B.SSF	419572.628	51710
722011.436	4294233.367	7511	09-Jan-14	ALEX192014B.SSF	419573.742	51711
722010.499	4294234.266	7967	09-Jan-14	ALEX192014B.SSF	419574.689	51712
722009.169	4294235.092	7571	09-Jan-14	ALEX192014B.SSF	419575.76	51713
722007.995	4294235.679	7563	09-Jan-14	ALEX192014B.SSF	419576.703	51714

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722006.986	4294236.309	7710	09-Jan-14	ALEX192014B.SSF	419577.755	51715
722006.285	4294237.012	8557	09-Jan-14	ALEX192014B.SSF	419578.689	51716
722005.212	4294237.895	7209	09-Jan-14	ALEX192014B.SSF	419579.76	51717
722003.913	4294238.675	5792	09-Jan-14	ALEX192014B.SSF	419580.672	51718
722002.386	4294239.469	6297	09-Jan-14	ALEX192014B.SSF	419581.781	51719
722001.502	4294240.053	5541	09-Jan-14	ALEX192014B.SSF	419582.671	51720
722000.63	4294240.986	5824	09-Jan-14	ALEX192014B.SSF	419583.694	51721
722000.049	4294241.82	5976	09-Jan-14	ALEX192014B.SSF	419584.646	51722
721999.409	4294242.569	6666	09-Jan-14	ALEX192014B.SSF	419585.766	51723
721998.62	4294242.961	6976	09-Jan-14	ALEX192014B.SSF	419586.721	51724
721997.866	4294243.556	6724	09-Jan-14	ALEX192014B.SSF	419587.772	51725
721997.161	4294244.312	7231	09-Jan-14	ALEX192014B.SSF	419588.729	51726
721995.933	4294244.931	7087	09-Jan-14	ALEX192014B.SSF	419589.786	51727
721994.903	4294245.263	7022	09-Jan-14	ALEX192014B.SSF	419590.66	51728
721994.287	4294245.948	6525	09-Jan-14	ALEX192014B.SSF	419591.804	51729
721994.413	4294246.382	6641	09-Jan-14	ALEX192014B.SSF	419592.662	51730
721994.782	4294246.078	6610	09-Jan-14	ALEX192014B.SSF	419593.708	51731
721995.083	4294245.326	6602	09-Jan-14	ALEX192014B.SSF	419594.626	51732
721995.47	4294244.613	5760	09-Jan-14	ALEX192014B.SSF	419595.771	51733
721995.797	4294244.337	5760	09-Jan-14	ALEX192014B.SSF	419596.653	51734
721996.593	4294243.936	6142	09-Jan-14	ALEX192014B.SSF	419597.793	51735
721997.493	4294243.464	6068	09-Jan-14	ALEX192014B.SSF	419598.656	51736
721998.459	4294242.726	6707	09-Jan-14	ALEX192014B.SSF	419599.785	51737
721999.261	4294242.077	7466	09-Jan-14	ALEX192014B.SSF	419600.754	51738
722000.288	4294241.557	8016	09-Jan-14	ALEX192014B.SSF	419601.781	51739
722001.098	4294241.026	6864	09-Jan-14	ALEX192014B.SSF	419602.683	51740
722002.002	4294240.155	5436	09-Jan-14	ALEX192014B.SSF	419603.826	51741
722002.911	4294239.579	5307	09-Jan-14	ALEX192014B.SSF	419604.766	51742
722003.971	4294238.992	5303	09-Jan-14	ALEX192014B.SSF	419605.787	51743
722004.722	4294238.238	6253	09-Jan-14	ALEX192014B.SSF	419606.688	51744
722005.445	4294237.25	7593	09-Jan-14	ALEX192014B.SSF	419607.717	51745
722006.409	4294236.473	6458	09-Jan-14	ALEX192014B.SSF	419608.712	51746
722007.575	4294235.926	7104	09-Jan-14	ALEX192014B.SSF	419609.739	51747
722008.494	4294235.451	6336	09-Jan-14	ALEX192014B.SSF	419610.677	51748
722009.199	4294234.7	6294	09-Jan-14	ALEX192014B.SSF	419611.697	51749
722009.868	4294233.874	6943	09-Jan-14	ALEX192014B.SSF	419612.688	51750
722010.838	4294233.156	7646	09-Jan-14	ALEX192014B.SSF	419613.717	51751
722011.637	4294232.46	6651	09-Jan-14	ALEX192014B.SSF	419614.7	51752
722012.324	4294231.527	7992	09-Jan-14	ALEX192014B.SSF	419615.809	51753
722013.07	4294230.797	7278	09-Jan-14	ALEX192014B.SSF	419616.722	51754
722014.169	4294230.163	7819	09-Jan-14	ALEX192014B.SSF	419617.801	51755
722015.15	4294229.587	6904	09-Jan-14	ALEX192014B.SSF	419618.713	51756
722016.17	4294228.656	7156	09-Jan-14	ALEX192014B.SSF	419619.733	51757
722017.069	4294227.73	7189	09-Jan-14	ALEX192014B.SSF	419620.723	51758
722018.008	4294227.042	7767	09-Jan-14	ALEX192014B.SSF	419621.708	51759
722018.858	4294226.476	8362	09-Jan-14	ALEX192014B.SSF	419622.699	51760
722019.785	4294225.652	7940	09-Jan-14	ALEX192014B.SSF	419623.801	51761

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722020.466	4294224.769	7595	09-Jan-14	ALEX192014B.SSF	419624.713	51762
722021.38	4294224.126	7268	09-Jan-14	ALEX192014B.SSF	419625.776	51763
722022.28	4294223.815	7757	09-Jan-14	ALEX192014B.SSF	419626.747	51764
722023.251	4294223.225	7069	09-Jan-14	ALEX192014B.SSF	419627.798	51765
722023.918	4294222.5	5981	09-Jan-14	ALEX192014B.SSF	419628.742	51766
722024.636	4294221.885	5764	09-Jan-14	ALEX192014B.SSF	419629.77	51767
722025.248	4294221.363	5491	09-Jan-14	ALEX192014B.SSF	419630.697	51768
722025.84	4294220.728	5496	09-Jan-14	ALEX192014B.SSF	419631.706	51769
722026.475	4294220.144	5409	09-Jan-14	ALEX192014B.SSF	419632.669	51770
722027.211	4294219.805	5817	09-Jan-14	ALEX192014B.SSF	419633.744	51771
722027.732	4294219.427	6152	09-Jan-14	ALEX192014B.SSF	419634.715	51772
722028.206	4294218.693	6218	09-Jan-14	ALEX192014B.SSF	419635.774	51773
722028.928	4294218.106	5781	09-Jan-14	ALEX192014B.SSF	419636.681	51774
722029.924	4294217.608	5674	09-Jan-14	ALEX192014B.SSF	419637.678	51775
722030.768	4294217.07	5659	09-Jan-14	ALEX192014B.SSF	419638.691	51776
722031.512	4294216.423	5636	09-Jan-14	ALEX192014B.SSF	419639.724	51777
722032.235	4294216.021	5780	09-Jan-14	ALEX192014B.SSF	419640.634	51778
722033.306	4294215.283	5846	09-Jan-14	ALEX192014B.SSF	419641.792	51779
722033.976	4294214.43	6872	09-Jan-14	ALEX192014B.SSF	419642.635	51780
722034.879	4294213.467	7958	09-Jan-14	ALEX192014B.SSF	419643.728	51781
722035.766	4294212.976	8019	09-Jan-14	ALEX192014B.SSF	419644.729	51782
722036.553	4294212.533	6775	09-Jan-14	ALEX192014B.SSF	419645.693	51783
722037.203	4294211.898	6343	09-Jan-14	ALEX192014B.SSF	419646.626	51784
722038.171	4294211.233	5996	09-Jan-14	ALEX192014B.SSF	419647.681	51785
722039.24	4294210.747	5652	09-Jan-14	ALEX192014B.SSF	419648.648	51786
722040.328	4294209.984	5699	09-Jan-14	ALEX192014B.SSF	419649.775	51787
722041.018	4294209.11	5572	09-Jan-14	ALEX192014B.SSF	419650.663	51788
722042.036	4294208.221	5774	09-Jan-14	ALEX192014B.SSF	419651.712	51789
722043.055	4294207.755	5835	09-Jan-14	ALEX192014B.SSF	419652.691	51790
722043.854	4294207.214	6200	09-Jan-14	ALEX192014B.SSF	419653.736	51791
722044.489	4294206.534	6230	09-Jan-14	ALEX192014B.SSF	419654.666	51792
722045.049	4294206.015	6867	09-Jan-14	ALEX192014B.SSF	419655.758	51793
722045.41	4294205.562	6847	09-Jan-14	ALEX192014B.SSF	419656.658	51794
722046.069	4294204.78	7411	09-Jan-14	ALEX192014B.SSF	419657.794	51795
722046.862	4294204.48	6322	09-Jan-14	ALEX192014B.SSF	419658.687	51796
722047.875	4294204.196	6271	09-Jan-14	ALEX192014B.SSF	419659.796	51797
722048.477	4294203.794	6247	09-Jan-14	ALEX192014B.SSF	419660.6	51798
722049.346	4294203.147	6902	09-Jan-14	ALEX192014B.SSF	419661.697	51799
722050.104	4294202.798	8295	09-Jan-14	ALEX192014B.SSF	419662.597	51800
722050.695	4294202.215	6603	09-Jan-14	ALEX192014B.SSF	419663.753	51801
722050.809	4294201.342	6631	09-Jan-14	ALEX192014B.SSF	419664.613	51802
722050.58	4294200.139	6937	09-Jan-14	ALEX192014B.SSF	419665.731	51803
722049.897	4294199.761	6804	09-Jan-14	ALEX192014B.SSF	419666.63	51804
722048.791	4294200.134	7281	09-Jan-14	ALEX192014B.SSF	419667.668	51805
722047.824	4294200.941	6710	09-Jan-14	ALEX192014B.SSF	419668.673	51806
722047.011	4294201.773	6957	09-Jan-14	ALEX192014B.SSF	419669.699	51807
722046.148	4294202.435	7019	09-Jan-14	ALEX192014B.SSF	419670.687	51808

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722045.028	4294203.073	6405	09-Jan-14	ALEX192014B.SSF	419671.749	51809
722044.101	4294203.663	6821	09-Jan-14	ALEX192014B.SSF	419672.679	51810
722043.37	4294204.51	5785	09-Jan-14	ALEX192014B.SSF	419673.743	51811
722042.921	4294205.286	6029	09-Jan-14	ALEX192014B.SSF	419674.665	51812
722042.16	4294206.028	5996	09-Jan-14	ALEX192014B.SSF	419675.744	51813
722041.305	4294206.512	6688	09-Jan-14	ALEX192014B.SSF	419676.66	51814
722040.441	4294207.219	4972	09-Jan-14	ALEX192014B.SSF	419677.702	51815
722039.87	4294208.06	5549	09-Jan-14	ALEX192014B.SSF	419678.667	51816
722039.025	4294208.826	5401	09-Jan-14	ALEX192014B.SSF	419679.744	51817
722037.98	4294209.173	5018	09-Jan-14	ALEX192014B.SSF	419680.702	51818
722036.886	4294209.436	4435	09-Jan-14	ALEX192014B.SSF	419681.785	51819
722036.077	4294210.021	5239	09-Jan-14	ALEX192014B.SSF	419682.719	51820
722035.374	4294210.896	5520	09-Jan-14	ALEX192014B.SSF	419683.73	51821
722034.661	4294211.626	6667	09-Jan-14	ALEX192014B.SSF	419684.644	51822
722033.717	4294212.264	6856	09-Jan-14	ALEX192014B.SSF	419685.653	51823
722032.961	4294212.711	6394	09-Jan-14	ALEX192014B.SSF	419686.582	51824
722032.109	4294213.443	6578	09-Jan-14	ALEX192014B.SSF	419687.686	51825
722031.38	4294214.355	6144	09-Jan-14	ALEX192014B.SSF	419688.663	51826
722030.76	4294215.096	5424	09-Jan-14	ALEX192014B.SSF	419689.682	51827
722030.034	4294215.691	5721	09-Jan-14	ALEX192014B.SSF	419690.6429	51828
722028.955	4294216.352	5850	09-Jan-14	ALEX192014B.SSF	419691.759	51829
722028.174	4294216.682	5998	09-Jan-14	ALEX192014B.SSF	419692.668	51830
722027.344	4294217.282	5751	09-Jan-14	ALEX192014B.SSF	419693.774	51831
722026.719	4294217.95	6220	09-Jan-14	ALEX192014B.SSF	419694.678	51832
722025.935	4294218.542	5932	09-Jan-14	ALEX192014B.SSF	419695.72	51833
722025.181	4294218.971	5437	09-Jan-14	ALEX192014B.SSF	419696.6121	51834
722024.385	4294219.624	5773	09-Jan-14	ALEX192014B.SSF	419697.7159	51835
722023.649	4294220.182	6262	09-Jan-14	ALEX192014B.SSF	419698.614	51836
722022.668	4294220.633	6065	09-Jan-14	ALEX192014B.SSF	419699.7271	51837
722022.065	4294221.054	6526	09-Jan-14	ALEX192014B.SSF	419700.625	51838
722021.425	4294221.766	6017	09-Jan-14	ALEX192014B.SSF	419701.687	51839
722020.718	4294222.328	6156	09-Jan-14	ALEX192014B.SSF	419702.593	51840
722019.675	4294222.825	6579	09-Jan-14	ALEX192014B.SSF	419703.658	51841
722018.67	4294223.468	7314	09-Jan-14	ALEX192014B.SSF	419704.67	51842
722017.759	4294224.49	7498	09-Jan-14	ALEX192014B.SSF	419705.681	51843
722016.862	4294225.641	6944	09-Jan-14	ALEX192014B.SSF	419706.682	51844
722015.784	4294226.757	7466	09-Jan-14	ALEX192014B.SSF	419707.75	51845
722014.716	4294227.479	7506	09-Jan-14	ALEX192014B.SSF	419708.63	51846
722013.257	4294228.118	7606	09-Jan-14	ALEX192014B.SSF	419709.724	51847
722012.223	4294228.736	7361	09-Jan-14	ALEX192014B.SSF	419710.702	51848
722011.42	4294229.657	7960	09-Jan-14	ALEX192014B.SSF	419711.786	51849
722010.804	4294230.279	6820	09-Jan-14	ALEX192014B.SSF	419712.7061	51850
722009.82	4294230.751	5815	09-Jan-14	ALEX192014B.SSF	419713.7889	51851
722008.839	4294231.066	6680	09-Jan-14	ALEX192014B.SSF	419714.696	51852
722007.941	4294231.708	6650	09-Jan-14	ALEX192014B.SSF	419715.64	51853
722007.136	4294232.594	7122	09-Jan-14	ALEX192014B.SSF	419716.582	51854
722006.173	4294233.657	6190	09-Jan-14	ALEX192014B.SSF	419717.728	51855

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722004.348	4294234.95	6934	09-Jan-14	ALEX192014B.SSF	419719.682	51857
722003.53	4294235.661	6233	09-Jan-14	ALEX192014B.SSF	419720.5861	51858
722002.448	4294236.526	5788	09-Jan-14	ALEX192014B.SSF	419721.724	51859
722001.51	4294237.058	6466	09-Jan-14	ALEX192014B.SSF	419722.681	51860
722000.682	4294237.572	7136	09-Jan-14	ALEX192014B.SSF	419723.704	51861
722000.487	4294237.737	6824	09-Jan-14	ALEX192014B.SSF	419724.625	51862
722000.881	4294237.168	6189	09-Jan-14	ALEX192014B.SSF	419725.756	51863
722001.232	4294236.563	7487	09-Jan-14	ALEX192014B.SSF	419726.702	51864
722001.541	4294236.127	6551	09-Jan-14	ALEX192014B.SSF	419727.729	51865
722001.862	4294235.731	5988	09-Jan-14	ALEX192014B.SSF	419728.6949	51866
722002.583	4294235.2	7135	09-Jan-14	ALEX192014B.SSF	419729.7469	51867
722003.605	4294234.617	6014	09-Jan-14	ALEX192014B.SSF	419730.6639	51868
722004.51	4294233.761	6245	09-Jan-14	ALEX192014B.SSF	419731.691	51869
722005.067	4294233.002	6182	09-Jan-14	ALEX192014B.SSF	419732.598	51870
722005.998	4294232.323	7185	09-Jan-14	ALEX192014B.SSF	419733.707	51871
722006.996	4294231.752	7792	09-Jan-14	ALEX192014B.SSF	419734.677	51872
722007.944	4294230.894	7304	09-Jan-14	ALEX192014B.SSF	419735.705	51873
722008.692	4294230.142	7466	09-Jan-14	ALEX192014B.SSF	419736.6591	51874
722009.618	4294229.639	6846	09-Jan-14	ALEX192014B.SSF	419737.7271	51875
722010.472	4294229.096	8071	09-Jan-14	ALEX192014B.SSF	419738.675	51876
722011.214	4294228.279	7297	09-Jan-14	ALEX192014B.SSF	419739.709	51877
722011.979	4294227.646	7848	09-Jan-14	ALEX192014B.SSF	419740.619	51878
722013.086	4294226.977	6921	09-Jan-14	ALEX192014B.SSF	419741.656	51879
722014.041	4294226.115	6500	09-Jan-14	ALEX192014B.SSF	419742.6429	51880
722014.812	4294225.105	6905	09-Jan-14	ALEX192014B.SSF	419743.651	51881
722015.788	4294224.423	7726	09-Jan-14	ALEX192014B.SSF	419744.627	51882
722016.951	4294223.867	6731	09-Jan-14	ALEX192014B.SSF	419745.635	51883
722017.96	4294223.093	6483	09-Jan-14	ALEX192014B.SSF	419746.63	51884
722018.806	4294222.12	5970	09-Jan-14	ALEX192014B.SSF	419747.728	51885
722019.588	4294221.609	6799	09-Jan-14	ALEX192014B.SSF	419748.566	51886
722020.738	4294221.03	6439	09-Jan-14	ALEX192014B.SSF	419749.6689	51887
722021.576	4294220.309	6170	09-Jan-14	ALEX192014B.SSF	419750.626	51888
722022.408	4294219.327	6612	09-Jan-14	ALEX192014B.SSF	419751.78	51889
722023.119	4294218.805	6033	09-Jan-14	ALEX192014B.SSF	419752.626	51890
722024	4294218.252	5562	09-Jan-14	ALEX192014B.SSF	419753.7321	51891
722024.411	4294217.795	6016	09-Jan-14	ALEX192014B.SSF	419754.629	51892
722025.016	4294217.371	5436	09-Jan-14	ALEX192014B.SSF	419755.723	51893
722025.75	4294217.011	5690	09-Jan-14	ALEX192014B.SSF	419756.621	51894
722026.43	4294216.405	6043	09-Jan-14	ALEX192014B.SSF	419757.724	51895
722027.023	4294215.9	5784	09-Jan-14	ALEX192014B.SSF	419758.624	51896
722027.931	4294215.455	5751	09-Jan-14	ALEX192014B.SSF	419759.725	51897
722028.516	4294214.974	5792	09-Jan-14	ALEX192014B.SSF	419760.621	51898
722029.464	4294214.245	5831	09-Jan-14	ALEX192014B.SSF	419761.761	51899
722030.187	4294213.944	6505	09-Jan-14	ALEX192014B.SSF	419762.66	51900
722030.456	4294213.799	6276	09-Jan-14	ALEX192014B.SSF	419763.7629	51901
722030.58	4294213.684	6489	09-Jan-14	ALEX192014B.SSF	419764.665	51902

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722031.172	4294213.122	6182	09-Jan-14	ALEX192014B.SSF	419765.674	51903
722031.877	4294212.3	7065	09-Jan-14	ALEX192014B.SSF	419766.556	51904
722032.912	4294211.566	7676	09-Jan-14	ALEX192014B.SSF	419767.708	51905
722033.759	4294211.231	6539	09-Jan-14	ALEX192014B.SSF	419768.605	51906
722034.764	4294210.561	6435	09-Jan-14	ALEX192014B.SSF	419769.699	51907
722035.401	4294209.818	6028	09-Jan-14	ALEX192014B.SSF	419770.627	51908
722036.277	4294209.272	6100	09-Jan-14	ALEX192014B.SSF	419771.7321	51909
722037.267	4294209.136	6265	09-Jan-14	ALEX192014B.SSF	419772.649	51910
722038.414	4294208.775	5919	09-Jan-14	ALEX192014B.SSF	419773.744	51911
722039.168	4294208.075	6539	09-Jan-14	ALEX192014B.SSF	419774.626	51912
722039.857	4294207.125	6285	09-Jan-14	ALEX192014B.SSF	419775.6121	51913
722040.667	4294206.36	5701	09-Jan-14	ALEX192014B.SSF	419776.549	51914
722041.866	4294205.774	6042	09-Jan-14	ALEX192014B.SSF	419777.645	51915
722042.839	4294205.163	6990	09-Jan-14	ALEX192014B.SSF	419778.614	51916
722043.524	4294204.231	6071	09-Jan-14	ALEX192014B.SSF	419779.614	51917
722044.275	4294203.365	6815	09-Jan-14	ALEX192014B.SSF	419780.662	51918
722045.193	4294202.728	7527	09-Jan-14	ALEX192014B.SSF	419781.677	51919
722045.92	4294202.111	6771	09-Jan-14	ALEX192014B.SSF	419782.595	51920
722046.565	4294201.281	7153	09-Jan-14	ALEX192014B.SSF	419783.657	51921
722047.243	4294200.663	6168	09-Jan-14	ALEX192014B.SSF	419784.55	51922
722048.178	4294200.258	6072	09-Jan-14	ALEX192014B.SSF	419785.688	51923
722048.655	4294199.899	6768	09-Jan-14	ALEX192014B.SSF	419786.691	51924
722049.122	4294199.206	6612	09-Jan-14	ALEX192014B.SSF	419787.752	51925
722049.248	4294198.613	6843	09-Jan-14	ALEX192014B.SSF	419788.6541	51926
722048.863	4294198.033	6960	09-Jan-14	ALEX192014B.SSF	419789.736	51927
722048.332	4294197.965	6750	09-Jan-14	ALEX192014B.SSF	419790.604	51928
722047.519	4294198.312	7087	09-Jan-14	ALEX192014B.SSF	419791.691	51929
722046.758	4294198.652	7922	09-Jan-14	ALEX192014B.SSF	419792.567	51930
722046.007	4294199.186	7560	09-Jan-14	ALEX192014B.SSF	419793.621	51931
722045.521	4294199.957	7320	09-Jan-14	ALEX192014B.SSF	419794.563	51932
722044.784	4294200.99	7200	09-Jan-14	ALEX192014B.SSF	419795.704	51933
722043.914	4294201.642	7680	09-Jan-14	ALEX192014B.SSF	419796.5959	51934
722042.791	4294202.15	6960	09-Jan-14	ALEX192014B.SSF	419797.6071	51935
722041.905	4294202.509	6750	09-Jan-14	ALEX192014B.SSF	419798.542	51936
722041.101	4294203.172	7597	09-Jan-14	ALEX192014B.SSF	419799.6541	51937
722040.331	4294203.942	8319	09-Jan-14	ALEX192014B.SSF	419800.61	51938
722039.129	4294204.705	7810	09-Jan-14	ALEX192014B.SSF	419801.757	51939
722038.193	4294205.077	7022	09-Jan-14	ALEX192014B.SSF	419802.624	51940
722037.434	4294205.65	5985	09-Jan-14	ALEX192014B.SSF	419803.6851	51941
722037.006	4294206.412	6414	09-Jan-14	ALEX192014B.SSF	419804.608	51942
722036.295	4294207.341	6020	09-Jan-14	ALEX192014B.SSF	419805.619	51943
722035.31	4294208.019	5482	09-Jan-14	ALEX192014B.SSF	419806.5439	51944
722034.166	4294208.639	5431	09-Jan-14	ALEX192014B.SSF	419807.6899	51945
722033.75	4294209.109	5732	09-Jan-14	ALEX192014B.SSF	419808.597	51946
722033.2	4294209.661	6389	09-Jan-14	ALEX192014B.SSF	419809.608	51947
722032.323	4294210.187	6847	09-Jan-14	ALEX192014B.SSF	419810.608	51948
722031.832	4294210.731	6061	09-Jan-14	ALEX192014B.SSF	419811.6429	51949

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722031.618	4294211.231	7005	09-Jan-14	ALEX192014B.SSF	419812.625	51950
722031.201	4294211.459	6521	09-Jan-14	ALEX192014B.SSF	419813.679	51951
722030.63	4294211.612	6190	09-Jan-14	ALEX192014B.SSF	419814.619	51952
722029.682	4294212.157	6326	09-Jan-14	ALEX192014B.SSF	419815.687	51953
722028.8	4294212.731	6111	09-Jan-14	ALEX192014B.SSF	419816.584	51954
722027.808	4294213.319	6238	09-Jan-14	ALEX192014B.SSF	419817.705	51955
722027.196	4294213.91	6569	09-Jan-14	ALEX192014B.SSF	419818.545	51956
722026.273	4294214.9	6048	09-Jan-14	ALEX192014B.SSF	419819.6949	51957
722025.544	4294215.36	6012	09-Jan-14	ALEX192014B.SSF	419820.632	51958
722024.718	4294215.896	5704	09-Jan-14	ALEX192014B.SSF	419821.67	51959
722023.832	4294216.655	6088	09-Jan-14	ALEX192014B.SSF	419822.619	51960
722022.869	4294217.252	6112	09-Jan-14	ALEX192014B.SSF	419823.696	51961
722022.205	4294217.54	6658	09-Jan-14	ALEX192014B.SSF	419824.5861	51962
722021.514	4294218.159	6374	09-Jan-14	ALEX192014B.SSF	419825.709	51963
722020.752	4294218.828	5660	09-Jan-14	ALEX192014B.SSF	419826.6331	51964
722019.644	4294219.502	5876	09-Jan-14	ALEX192014B.SSF	419827.76	51965
722018.889	4294220.11	6283	09-Jan-14	ALEX192014B.SSF	419828.613	51966
722018.013	4294221.084	6161	09-Jan-14	ALEX192014B.SSF	419829.675	51967
722017.095	4294221.85	6670	09-Jan-14	ALEX192014B.SSF	419830.597	51968
722015.95	4294222.522	6677	09-Jan-14	ALEX192014B.SSF	419831.683	51969
722015.135	4294223.275	7219	09-Jan-14	ALEX192014B.SSF	419832.632	51970
722014.206	4294224.297	6904	09-Jan-14	ALEX192014B.SSF	419833.723	51971
722013.424	4294224.905	6346	09-Jan-14	ALEX192014B.SSF	419834.595	51972
722012.39	4294225.668	6116	09-Jan-14	ALEX192014B.SSF	419835.709	51973
722011.601	4294226.46	6058	09-Jan-14	ALEX192014B.SSF	419836.618	51974
722010.594	4294227.126	6067	09-Jan-14	ALEX192014B.SSF	419837.679	51975
722009.677	4294227.415	6856	09-Jan-14	ALEX192014B.SSF	419838.689	51976
722008.869	4294227.622	7144	09-Jan-14	ALEX192014B.SSF	419839.691	51977
722008.21	4294227.691	6316	09-Jan-14	ALEX192014B.SSF	419840.6379	51978
722008.005	4294227.47	6118	09-Jan-14	ALEX192014B.SSF	419841.641	51979
722008.421	4294226.899	5879	09-Jan-14	ALEX192014B.SSF	419842.572	51980
722009.343	4294225.943	5774	09-Jan-14	ALEX192014B.SSF	419843.671	51981
722010.505	4294225.255	6440	09-Jan-14	ALEX192014B.SSF	419844.644	51982
722011.69	4294224.699	6105	09-Jan-14	ALEX192014B.SSF	419845.655	51983
722012.559	4294224.098	6189	09-Jan-14	ALEX192014B.SSF	419846.535	51984
722013.445	4294223.264	6017	09-Jan-14	ALEX192014B.SSF	419847.652	51985
722014.166	4294222.836	5559	09-Jan-14	ALEX192014B.SSF	419848.545	51986
722015.35	4294222.21	6277	09-Jan-14	ALEX192014B.SSF	419849.709	51987
722016.292	4294221.394	6759	09-Jan-14	ALEX192014B.SSF	419850.605	51988
722017.504	4294220.437	6519	09-Jan-14	ALEX192014B.SSF	419851.722	51989
722018.409	4294219.886	5820	09-Jan-14	ALEX192014B.SSF	419852.5959	51990
722019.311	4294219.143	5801	09-Jan-14	ALEX192014B.SSF	419853.6479	51991
722020.072	4294218.352	6345	09-Jan-14	ALEX192014B.SSF	419854.582	51992
722021.195	4294217.643	6429	09-Jan-14	ALEX192014B.SSF	419855.679	51993
722022.16	4294217.204	7337	09-Jan-14	ALEX192014B.SSF	419856.655	51994
722023.07	4294216.561	7234	09-Jan-14	ALEX192014B.SSF	419857.6851	51995
722023.951	4294215.748	5858	09-Jan-14	ALEX192014B.SSF	419858.6639	51996

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722025.073	4294215.129	5770	09-Jan-14	ALEX192014B.SSF	419859.705	51997
722025.894	4294214.756	5803	09-Jan-14	ALEX192014B.SSF	419860.5811	51998
722026.676	4294214.128	5927	09-Jan-14	ALEX192014B.SSF	419861.749	51999
722027.197	4294213.615	6213	09-Jan-14	ALEX192014B.SSF	419862.601	52000
722027.823	4294213.277	6095	09-Jan-14	ALEX192014B.SSF	419863.674	52001
722028.536	4294212.974	5903	09-Jan-14	ALEX192014B.SSF	419864.619	52002
722029.623	4294211.924	6188	09-Jan-14	ALEX192014B.SSF	419865.677	52003
722030.375	4294210.919	5957	09-Jan-14	ALEX192014B.SSF	419866.5811	52004
722031.033	4294210.32	6584	09-Jan-14	ALEX192014B.SSF	419867.6851	52005
722031.654	4294209.953	6536	09-Jan-14	ALEX192014B.SSF	419868.67	52006
722032.147	4294209.356	6794	09-Jan-14	ALEX192014B.SSF	419869.698	52007
722032.716	4294208.94	6108	09-Jan-14	ALEX192014B.SSF	419870.573	52008
722033.616	4294208.608	6025	09-Jan-14	ALEX192014B.SSF	419871.6801	52009
722034.399	4294208.181	6324	09-Jan-14	ALEX192014B.SSF	419872.574	52010
722035.355	4294207.203	6141	09-Jan-14	ALEX192014B.SSF	419873.674	52011
722036.083	4294206.483	5782	09-Jan-14	ALEX192014B.SSF	419874.584	52012
722036.657	4294206.021	5847	09-Jan-14	ALEX192014B.SSF	419875.684	52013
722037.041	4294205.615	6978	09-Jan-14	ALEX192014B.SSF	419876.627	52014
722037.752	4294205.014	6994	09-Jan-14	ALEX192014B.SSF	419877.65	52015
722038.559	4294204.589	7058	09-Jan-14	ALEX192014B.SSF	419878.579	52016
722039.245	4294204.034	6384	09-Jan-14	ALEX192014B.SSF	419879.692	52017
722039.601	4294203.476	7566	09-Jan-14	ALEX192014B.SSF	419880.525	52018
722040.274	4294202.881	7381	09-Jan-14	ALEX192014B.SSF	419881.646	52019
722040.913	4294202.418	7155	09-Jan-14	ALEX192014B.SSF	419882.595	52020
722041.475	4294201.865	7308	09-Jan-14	ALEX192014B.SSF	419883.632	52021
722042.04	4294201.512	7827	09-Jan-14	ALEX192014B.SSF	419884.514	52022
722043.02	4294200.956	6727	09-Jan-14	ALEX192014B.SSF	419885.691	52023
722043.633	4294200.456	6331	09-Jan-14	ALEX192014B.SSF	419886.5439	52024
722044.37	4294200.016	6064	09-Jan-14	ALEX192014B.SSF	419887.595	52025
722045.159	4294199.744	6136	09-Jan-14	ALEX192014B.SSF	419888.5649	52026
722045.883	4294199.322	6604	09-Jan-14	ALEX192014B.SSF	419889.6591	52027
722046.401	4294198.89	6961	09-Jan-14	ALEX192014B.SSF	419890.5291	52028
722047.111	4294198.326	6480	09-Jan-14	ALEX192014B.SSF	419891.5959	52029
722047.28	4294197.836	6210	09-Jan-14	ALEX192014B.SSF	419892.554	52030
722046.576	4294197.429	6802	09-Jan-14	ALEX192014B.SSF	419893.635	52031
722045.674	4294197.258	6710	09-Jan-14	ALEX192014B.SSF	419894.542	52032
722044.623	4294197.42	6267	09-Jan-14	ALEX192014B.SSF	419895.653	52033
722043.742	4294198.107	6607	09-Jan-14	ALEX192014B.SSF	419896.588	52034
722042.965	4294199.049	7891	09-Jan-14	ALEX192014B.SSF	419897.675	52035
722042.551	4294199.459	7402	09-Jan-14	ALEX192014B.SSF	419898.614	52036
722041.987	4294199.897	7100	09-Jan-14	ALEX192014B.SSF	419899.663	52037
722041.367	4294200.478	8165	09-Jan-14	ALEX192014B.SSF	419900.566	52038
722040.488	4294201.069	7381	09-Jan-14	ALEX192014B.SSF	419901.615	52039
722039.524	4294201.546	7845	09-Jan-14	ALEX192014B.SSF	419902.615	52040
722038.716	4294202.278	6941	09-Jan-14	ALEX192014B.SSF	419903.623	52041
722038.154	4294203.013	7075	09-Jan-14	ALEX192014B.SSF	419904.528	52042
722037.434	4294203.695	6839	09-Jan-14	ALEX192014B.SSF	419905.6639	52043

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722036.588	4294204.376	6269	09-Jan-14	ALEX192014B.SSF	419906.568	52044
722035.485	4294205.409	5726	09-Jan-14	ALEX192014B.SSF	419907.675	52045
722034.696	4294206.042	5666	09-Jan-14	ALEX192014B.SSF	419908.569	52046
722033.725	4294206.651	5439	09-Jan-14	ALEX192014B.SSF	419909.629	52047
722032.926	4294207.284	6015	09-Jan-14	ALEX192014B.SSF	419910.597	52048
722031.992	4294208.081	6800	09-Jan-14	ALEX192014B.SSF	419911.709	52049
722031.1	4294208.547	7160	09-Jan-14	ALEX192014B.SSF	419912.583	52050
722029.871	4294209.061	7790	09-Jan-14	ALEX192014B.SSF	419913.671	52051
722028.882	4294209.72	6657	09-Jan-14	ALEX192014B.SSF	419914.561	52052
722027.81	4294210.666	5774	09-Jan-14	ALEX192014B.SSF	419915.636	52053
722026.875	4294211.332	6015	09-Jan-14	ALEX192014B.SSF	419916.528	52054
722025.707	4294211.922	6095	09-Jan-14	ALEX192014B.SSF	419917.684	52055
722025.048	4294212.404	7974	09-Jan-14	ALEX192014B.SSF	419918.51	52056
722024.081	4294213.394	5563	09-Jan-14	ALEX192014B.SSF	419919.661	52057
722022.969	4294214.229	5612	09-Jan-14	ALEX192014B.SSF	419920.6899	52058
722021.806	4294214.711	6434	09-Jan-14	ALEX192014B.SSF	419921.744	52059
722021.037	4294215.03	6408	09-Jan-14	ALEX192014B.SSF	419922.601	52060
722020.163	4294215.762	5982	09-Jan-14	ALEX192014B.SSF	419923.745	52061
722019.526	4294216.429	6698	09-Jan-14	ALEX192014B.SSF	419924.588	52062
722018.838	4294217.061	7494	09-Jan-14	ALEX192014B.SSF	419925.631	52063
722018.091	4294217.695	6673	09-Jan-14	ALEX192014B.SSF	419926.5959	52064
722017.15	4294218.724	7278	09-Jan-14	ALEX192014B.SSF	419927.594	52065
722016.158	4294219.678	6379	09-Jan-14	ALEX192014B.SSF	419928.516	52066
722014.89	4294220.489	5944	09-Jan-14	ALEX192014B.SSF	419929.624	52067
722013.763	4294221.147	6414	09-Jan-14	ALEX192014B.SSF	419930.6331	52068
722012.74	4294222.059	6065	09-Jan-14	ALEX192014B.SSF	419931.718	52069
722011.976	4294222.752	5806	09-Jan-14	ALEX192014B.SSF	419932.609	52070
722010.914	4294223.344	5756	09-Jan-14	ALEX192014B.SSF	419933.74	52071
722010.194	4294223.814	5645	09-Jan-14	ALEX192014B.SSF	419934.621	52072
722009.543	4294224.541	6393	09-Jan-14	ALEX192014B.SSF	419935.676	52073
722008.907	4294225.209	6608	09-Jan-14	ALEX192014B.SSF	419936.631	52074
722008.023	4294225.575	6392	09-Jan-14	ALEX192014B.SSF	419937.7061	52075
722007.339	4294225.781	6398	09-Jan-14	ALEX192014B.SSF	419938.598	52076
722006.986	4294226.056	5849	09-Jan-14	ALEX192014B.SSF	419939.74	52077
722007.264	4294225.816	6783	09-Jan-14	ALEX192014B.SSF	419940.589	52078
722007.981	4294225.394	5933	09-Jan-14	ALEX192014B.SSF	419941.665	52079
722008.697	4294224.907	6112	09-Jan-14	ALEX192014B.SSF	419942.637	52080
722009.334	4294224.103	5637	09-Jan-14	ALEX192014B.SSF	419943.699	52081
722009.926	4294223.596	5788	09-Jan-14	ALEX192014B.SSF	419944.627	52082
722010.719	4294223.016	6203	09-Jan-14	ALEX192014B.SSF	419945.707	52083
722011.467	4294222.362	6531	09-Jan-14	ALEX192014B.SSF	419946.606	52084
722012.497	4294221.577	7122	09-Jan-14	ALEX192014B.SSF	419947.6541	52085
722013.567	4294221.058	6730	09-Jan-14	ALEX192014B.SSF	419948.621	52086
722014.538	4294220.503	6692	09-Jan-14	ALEX192014B.SSF	419949.611	52087
722015.26	4294219.828	6683	09-Jan-14	ALEX192014B.SSF	419950.558	52088
722016.158	4294219.113	7820	09-Jan-14	ALEX192014B.SSF	419951.592	52089
722017.111	4294218.535	6695	09-Jan-14	ALEX192014B.SSF	419952.55	52090

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722018.274	4294217.679	6023	09-Jan-14	ALEX192014B.SSF	419953.697	52091
722019.013	4294216.797	6518	09-Jan-14	ALEX192014B.SSF	419954.562	52092
722019.907	4294215.952	6459	09-Jan-14	ALEX192014B.SSF	419955.578	52093
722020.867	4294215.332	6895	09-Jan-14	ALEX192014B.SSF	419956.5649	52094
722021.757	4294214.579	5893	09-Jan-14	ALEX192014B.SSF	419957.606	52095
722022.393	4294213.786	7160	09-Jan-14	ALEX192014B.SSF	419958.547	52096
722023.062	4294213.017	5690	09-Jan-14	ALEX192014B.SSF	419959.603	52097
722023.73	4294212.47	5848	09-Jan-14	ALEX192014B.SSF	419960.587	52098
722024.516	4294211.843	5989	09-Jan-14	ALEX192014B.SSF	419961.636	52099
722025.117	4294211.22	6701	09-Jan-14	ALEX192014B.SSF	419962.485	52100
722026.071	4294210.411	6595	09-Jan-14	ALEX192014B.SSF	419963.637	52101
722026.897	4294209.976	7738	09-Jan-14	ALEX192014B.SSF	419964.517	52102
722027.726	4294209.323	7394	09-Jan-14	ALEX192014B.SSF	419965.594	52103
722028.297	4294208.421	6558	09-Jan-14	ALEX192014B.SSF	419966.536	52104
722029.226	4294207.49	6259	09-Jan-14	ALEX192014B.SSF	419967.59	52105
722030.241	4294206.987	6814	09-Jan-14	ALEX192014B.SSF	419968.536	52106
722031.154	4294206.5	6155	09-Jan-14	ALEX192014B.SSF	419969.583	52107
722031.995	4294205.797	6548	09-Jan-14	ALEX192014B.SSF	419970.585	52108
722033.253	4294205.073	6677	09-Jan-14	ALEX192014B.SSF	419971.631	52109
722034.398	4294204.574	6259	09-Jan-14	ALEX192014B.SSF	419972.62	52110
722035.204	4294203.951	5542	09-Jan-14	ALEX192014B.SSF	419973.6281	52111
722035.94	4294203.196	6282	09-Jan-14	ALEX192014B.SSF	419974.624	52112
722036.92	4294202.655	6280	09-Jan-14	ALEX192014B.SSF	419975.689	52113
722037.73	4294202.267	6015	09-Jan-14	ALEX192014B.SSF	419976.635	52114
722038.266	4294201.671	5705	09-Jan-14	ALEX192014B.SSF	419977.677	52115
722038.745	4294201.211	5827	09-Jan-14	ALEX192014B.SSF	419978.543	52116
722039.583	4294200.654	5857	09-Jan-14	ALEX192014B.SSF	419979.639	52117
722040.257	4294200.051	7116	09-Jan-14	ALEX192014B.SSF	419980.51	52118
722040.985	4294199.154	7509	09-Jan-14	ALEX192014B.SSF	419981.577	52119
722041.789	4294198.585	6617	09-Jan-14	ALEX192014B.SSF	419982.535	52120
722042.744	4294198.28	7324	09-Jan-14	ALEX192014B.SSF	419983.582	52121
722043.377	4294197.916	7081	09-Jan-14	ALEX192014B.SSF	419984.535	52122
722044.085	4294197.353	6900	09-Jan-14	ALEX192014B.SSF	419985.585	52123
722044.786	4294196.832	6225	09-Jan-14	ALEX192014B.SSF	419986.576	52124
722045.107	4294196.246	6084	09-Jan-14	ALEX192014B.SSF	419987.588	52125
722045.053	4294195.834	5806	09-Jan-14	ALEX192014B.SSF	419988.533	52126
722044.753	4294195.727	5741	09-Jan-14	ALEX192014B.SSF	419989.6	52127
722044.276	4294195.648	5906	09-Jan-14	ALEX192014B.SSF	419990.594	52128
722043.828	4294195.701	5980	09-Jan-14	ALEX192014B.SSF	419991.632	52129
722043.363	4294195.942	6003	09-Jan-14	ALEX192014B.SSF	419992.5811	52130
722042.518	4294196.12	5822	09-Jan-14	ALEX192014B.SSF	419993.637	52131
722041.67	4294196.382	6893	09-Jan-14	ALEX192014B.SSF	419994.543	52132
722040.787	4294197.044	8053	09-Jan-14	ALEX192014B.SSF	419995.616	52133
722040.067	4294197.574	8253	09-Jan-14	ALEX192014B.SSF	419996.506	52134
722039.021	4294198.01	8123	09-Jan-14	ALEX192014B.SSF	419997.573	52135
722038.033	4294198.691	6980	09-Jan-14	ALEX192014B.SSF	419998.578	52136
722037.218	4294199.736	6485	09-Jan-14	ALEX192014B.SSF	419999.558	52137

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722036.291	4294200.713	7381	09-Jan-14	ALEX192014B.SSF	420000.533	52138
722035.121	4294201.4	6225	09-Jan-14	ALEX192014B.SSF	420001.5861	52139
722034.351	4294202.039	5906	09-Jan-14	ALEX192014B.SSF	420002.589	52140
722033.875	4294202.99	6187	09-Jan-14	ALEX192014B.SSF	420003.616	52141
722033.116	4294203.863	6676	09-Jan-14	ALEX192014B.SSF	420004.563	52142
722031.989	4294204.601	6979	09-Jan-14	ALEX192014B.SSF	420005.625	52143
722031.183	4294205.062	6334	09-Jan-14	ALEX192014B.SSF	420006.566	52144
722030.355	4294205.583	6473	09-Jan-14	ALEX192014B.SSF	420007.625	52145
722029.605	4294206.232	6628	09-Jan-14	ALEX192014B.SSF	420008.561	52146
722028.651	4294206.98	6367	09-Jan-14	ALEX192014B.SSF	420009.627	52147
722027.794	4294207.411	6661	09-Jan-14	ALEX192014B.SSF	420010.478	52148
722026.763	4294207.875	6525	09-Jan-14	ALEX192014B.SSF	420011.587	52149
722026.078	4294208.49	6731	09-Jan-14	ALEX192014B.SSF	420012.507	52150
722025.23	4294209.465	7473	09-Jan-14	ALEX192014B.SSF	420013.635	52151
722024.354	4294210.053	6908	09-Jan-14	ALEX192014B.SSF	420014.47	52152
722022.907	4294210.662	6707	09-Jan-14	ALEX192014B.SSF	420015.691	52153
722022.067	4294211.283	6836	09-Jan-14	ALEX192014B.SSF	420016.541	52154
722021.112	4294212.309	6839	09-Jan-14	ALEX192014B.SSF	420017.63	52155
722020.127	4294213.119	7350	09-Jan-14	ALEX192014B.SSF	420018.606	52156
722018.91	4294213.808	6607	09-Jan-14	ALEX192014B.SSF	420019.671	52157
722018.078	4294214.554	6211	09-Jan-14	ALEX192014B.SSF	420020.567	52158
722017.423	4294215.624	6232	09-Jan-14	ALEX192014B.SSF	420021.6479	52159
722016.928	4294216.306	6778	09-Jan-14	ALEX192014B.SSF	420022.559	52160
722016.087	4294216.885	6284	09-Jan-14	ALEX192014B.SSF	420023.646	52161
722015.251	4294217.506	6191	09-Jan-14	ALEX192014B.SSF	420024.5601	52162
722014.412	4294218.339	5936	09-Jan-14	ALEX192014B.SSF	420025.5699	52163
722013.555	4294219.125	6546	09-Jan-14	ALEX192014B.SSF	420026.494	52164
722012.348	4294219.845	6766	09-Jan-14	ALEX192014B.SSF	420027.621	52165
722011.508	4294220.356	7091	09-Jan-14	ALEX192014B.SSF	420028.55	52166
722011.128	4294220.647	6603	09-Jan-14	ALEX192014B.SSF	420029.615	52167
722010.924	4294220.306	5670	09-Jan-14	ALEX192014B.SSF	420030.5861	52168
722010.604	4294219.856	5456	09-Jan-14	ALEX192014B.SSF	420031.64	52169
722010.52	4294219.66	5896	09-Jan-14	ALEX192014B.SSF	420032.552	52170
722010.58	4294219.401	6227	09-Jan-14	ALEX192014B.SSF	420033.642	52171
722010.853	4294218.98	6385	09-Jan-14	ALEX192014B.SSF	420034.558	52172
722011.818	4294218.421	6516	09-Jan-14	ALEX192014B.SSF	420035.6689	52173
722012.861	4294218.035	5608	09-Jan-14	ALEX192014B.SSF	420036.608	52174
722013.73	4294217.449	5982	09-Jan-14	ALEX192014B.SSF	420037.62	52175
722014.562	4294216.651	6278	09-Jan-14	ALEX192014B.SSF	420038.604	52176
722015.36	4294216.309	5534	09-Jan-14	ALEX192014B.SSF	420039.666	52177
722015.661	4294216.385	5663	09-Jan-14	ALEX192014B.SSF	420040.556	52178
722015.462	4294216.45	5630	09-Jan-14	ALEX192014B.SSF	420041.639	52179
722015.132	4294216.467	5589	09-Jan-14	ALEX192014B.SSF	420042.554	52180
722015.015	4294216.337	5439	09-Jan-14	ALEX192014B.SSF	420043.621	52181
722015.185	4294216.36	5122	09-Jan-14	ALEX192014B.SSF	420044.564	52182
722015.505	4294216.385	5558	09-Jan-14	ALEX192014B.SSF	420045.564	52183
722015.699	4294215.789	5451	09-Jan-14	ALEX192014B.SSF	420046.519	52184

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722017.114	4294214.009	5892	09-Jan-14	ALEX192014B.SSF	420048.506	52186
722018.475	4294213.519	6104	09-Jan-14	ALEX192014B.SSF	420049.627	52187
722019.521	4294212.942	7106	09-Jan-14	ALEX192014B.SSF	420050.598	52188
722020.569	4294211.95	6426	09-Jan-14	ALEX192014B.SSF	420051.6379	52189
722021.612	4294211.097	7126	09-Jan-14	ALEX192014B.SSF	420052.573	52190
722022.741	4294210.424	7421	09-Jan-14	ALEX192014B.SSF	420053.584	52191
722023.602	4294209.794	6865	09-Jan-14	ALEX192014B.SSF	420054.561	52192
722024.256	4294209.066	7476	09-Jan-14	ALEX192014B.SSF	420055.562	52193
722024.904	4294208.566	6369	09-Jan-14	ALEX192014B.SSF	420056.498	52194
722025.746	4294208.053	6032	09-Jan-14	ALEX192014B.SSF	420057.5811	52195
722026.506	4294207.346	6198	09-Jan-14	ALEX192014B.SSF	420058.527	52196
722027.518	4294206.471	5929	09-Jan-14	ALEX192014B.SSF	420059.588	52197
722028.488	4294205.918	6348	09-Jan-14	ALEX192014B.SSF	420060.472	52198
722029.674	4294205.263	5785	09-Jan-14	ALEX192014B.SSF	420061.573	52199
722030.57	4294204.505	5889	09-Jan-14	ALEX192014B.SSF	420062.509	52200
722031.732	4294203.629	6468	09-Jan-14	ALEX192014B.SSF	420063.575	52201
722032.932	4294203.128	5937	09-Jan-14	ALEX192014B.SSF	420064.506	52202
722034.064	4294202.733	6632	09-Jan-14	ALEX192014B.SSF	420065.64	52203
722034.523	4294202.1	6518	09-Jan-14	ALEX192014B.SSF	420066.589	52204
722034.986	4294201.321	6029	09-Jan-14	ALEX192014B.SSF	420067.637	52205
722035.612	4294200.969	6131	09-Jan-14	ALEX192014B.SSF	420068.573	52206
722036.324	4294200.622	5599	09-Jan-14	ALEX192014B.SSF	420069.644	52207
722036.826	4294200.034	5804	09-Jan-14	ALEX192014B.SSF	420070.561	52208
722037.551	4294199.231	5875	09-Jan-14	ALEX192014B.SSF	420071.5909	52209
722038.489	4294198.556	5772	09-Jan-14	ALEX192014B.SSF	420072.573	52210
722039.51	4294197.763	5909	09-Jan-14	ALEX192014B.SSF	420073.62	52211
722040.283	4294196.936	5861	09-Jan-14	ALEX192014B.SSF	420074.511	52212
722041.21	4294195.98	5936	09-Jan-14	ALEX192014B.SSF	420075.605	52213
722041.839	4294195.224	6069	09-Jan-14	ALEX192014B.SSF	420076.509	52214
722041.969	4294194.245	6026	09-Jan-14	ALEX192014B.SSF	420077.613	52215
722041.559	4294193.464	5879	09-Jan-14	ALEX192014B.SSF	420078.5129	52216
722040.841	4294192.839	6015	09-Jan-14	ALEX192014B.SSF	420079.569	52217
722040.096	4294192.917	6098	09-Jan-14	ALEX192014B.SSF	420080.4771	52218
722039.062	4294193.647	6174	09-Jan-14	ALEX192014B.SSF	420081.58	52219
722038.241	4294194.259	6133	09-Jan-14	ALEX192014B.SSF	420082.509	52220
722037.453	4294194.901	5883	09-Jan-14	ALEX192014B.SSF	420083.582	52221
722036.928	4294195.658	5806	09-Jan-14	ALEX192014B.SSF	420084.493	52222
722036.221	4294196.675	5598	09-Jan-14	ALEX192014B.SSF	420085.615	52223
722035.422	4294197.293	5766	09-Jan-14	ALEX192014B.SSF	420086.5179	52224
722034.491	4294198.011	5793	09-Jan-14	ALEX192014B.SSF	420087.58	52225
722033.819	4294198.824	6048	09-Jan-14	ALEX192014B.SSF	420088.548	52226
722033.05	4294199.508	6003	09-Jan-14	ALEX192014B.SSF	420089.619	52227
722032.266	4294199.728	6931	09-Jan-14	ALEX192014B.SSF	420090.593	52228
722031.581	4294199.919	6802	09-Jan-14	ALEX192014B.SSF	420091.575	52229
722031.167	4294200.511	6980	09-Jan-14	ALEX192014B.SSF	420092.569	52230
722030.647	4294201.219	6185	09-Jan-14	ALEX192014B.SSF	420093.631	52231

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722029.191	4294202.134	6364	09-Jan-14	ALEX192014B.SSF	420095.5229	52233
722028.359	4294202.911	6106	09-Jan-14	ALEX192014B.SSF	420096.524	52234
722027.266	4294203.754	6070	09-Jan-14	ALEX192014B.SSF	420097.526	52235
722026.306	4294204.504	7157	09-Jan-14	ALEX192014B.SSF	420098.4561	52236
722025.427	4294205.454	6529	09-Jan-14	ALEX192014B.SSF	420099.527	52237
722024.758	4294206.179	5793	09-Jan-14	ALEX192014B.SSF	420100.4821	52238
722024.078	4294206.568	6582	09-Jan-14	ALEX192014B.SSF	420101.613	52239
722023.376	4294206.967	5935	09-Jan-14	ALEX192014B.SSF	420102.5389	52240
722022.496	4294207.846	7565	09-Jan-14	ALEX192014B.SSF	420103.573	52241
722021.748	4294208.727	6721	09-Jan-14	ALEX192014B.SSF	420104.463	52242
722020.735	4294209.58	5730	09-Jan-14	ALEX192014B.SSF	420105.5699	52243
722019.855	4294210.199	6133	09-Jan-14	ALEX192014B.SSF	420106.525	52244
722019.151	4294211.087	5960	09-Jan-14	ALEX192014B.SSF	420107.549	52245
722018.564	4294211.843	6030	09-Jan-14	ALEX192014B.SSF	420108.45	52246
722017.747	4294212.323	6401	09-Jan-14	ALEX192014B.SSF	420109.5861	52247
722017.263	4294212.627	5970	09-Jan-14	ALEX192014B.SSF	420110.569	52248
722017.111	4294212.951	5960	09-Jan-14	ALEX192014B.SSF	420111.601	52249
722017.229	4294213.043	6630	09-Jan-14	ALEX192014B.SSF	420112.548	52250
722017.549	4294212.825	6697	09-Jan-14	ALEX192014B.SSF	420113.666	52251
722018.011	4294212.36	5964	09-Jan-14	ALEX192014B.SSF	420114.577	52252
722018.76	4294211.57	6211	09-Jan-14	ALEX192014B.SSF	420115.655	52253
722019.446	4294210.91	5452	09-Jan-14	ALEX192014B.SSF	420116.498	52254
722020.471	4294210.169	5887	09-Jan-14	ALEX192014B.SSF	420117.6219	52255
722021.165	4294209.731	6137	09-Jan-14	ALEX192014B.SSF	420118.537	52256
722021.878	4294209.408	5554	09-Jan-14	ALEX192014B.SSF	420119.629	52257
722023.056	4294209.164	5846	09-Jan-14	ALEX192014B.SSF	420120.5811	52258
722024.851	4294208.799	5231	09-Jan-14	ALEX192014B.SSF	420121.646	52259
722025.798	4294208.189	5230	09-Jan-14	ALEX192014B.SSF	420122.498	52260
722026.412	4294207.192	5469	09-Jan-14	ALEX192014B.SSF	420123.601	52261
722026.952	4294206.501	5844	09-Jan-14	ALEX192014B.SSF	420124.546	52262
722027.663	4294205.725	6571	09-Jan-14	ALEX192014B.SSF	420125.5699	52263
722028.286	4294204.767	8002	09-Jan-14	ALEX192014B.SSF	420126.562	52264
722028.912	4294203.908	7430	09-Jan-14	ALEX192014B.SSF	420127.593	52265
722029.58	4294203.423	7077	09-Jan-14	ALEX192014B.SSF	420128.549	52266
722030.271	4294202.89	6899	09-Jan-14	ALEX192014B.SSF	420129.5699	52267
722030.751	4294202.213	6585	09-Jan-14	ALEX192014B.SSF	420130.537	52268
722031.237	4294201.5	6579	09-Jan-14	ALEX192014B.SSF	420131.605	52269
722031.762	4294200.909	5544	09-Jan-14	ALEX192014B.SSF	420132.511	52270
722032.454	4294199.953	5864	09-Jan-14	ALEX192014B.SSF	420133.651	52271
722032.947	4294199.021	5751	09-Jan-14	ALEX192014B.SSF	420134.537	52272
722033.695	4294198.017	6077	09-Jan-14	ALEX192014B.SSF	420135.59	52273
722034.448	4294197.318	5809	09-Jan-14	ALEX192014B.SSF	420136.547	52274
722035.134	4294196.649	6065	09-Jan-14	ALEX192014B.SSF	420137.6429	52275
722035.607	4294196.251	5934	09-Jan-14	ALEX192014B.SSF	420138.5081	52276
722036.276	4294195.644	5933	09-Jan-14	ALEX192014B.SSF	420139.569	52277
722036.93	4294194.884	5805	09-Jan-14	ALEX192014B.SSF	420140.574	52278

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722037.931	4294193.791	6068	09-Jan-14	ALEX192014B.SSF	420142.536	52280
722038.57	4294192.954	5845	09-Jan-14	ALEX192014B.SSF	420143.623	52281
722039.118	4294192.354	7037	09-Jan-14	ALEX192014B.SSF	420144.509	52282
722039.259	4294191.835	7069	09-Jan-14	ALEX192014B.SSF	420145.501	52283
722038.886	4294191.32	6387	09-Jan-14	ALEX192014B.SSF	420146.463	52284
722038.509	4294190.66	6967	09-Jan-14	ALEX192014B.SSF	420147.5341	52285
722038.023	4294190.451	6361	09-Jan-14	ALEX192014B.SSF	420148.4919	52286
722037.046	4294190.885	6210	09-Jan-14	ALEX192014B.SSF	420149.5861	52287
722036.386	4294191.357	5902	09-Jan-14	ALEX192014B.SSF	420150.464	52288
722035.892	4294192.052	5843	09-Jan-14	ALEX192014B.SSF	420151.567	52289
722035.501	4294192.897	6009	09-Jan-14	ALEX192014B.SSF	420152.491	52290
722034.945	4294194.004	6147	09-Jan-14	ALEX192014B.SSF	420153.5811	52291
722034.352	4294194.741	5534	09-Jan-14	ALEX192014B.SSF	420154.48	52292
722033.478	4294195.457	5848	09-Jan-14	ALEX192014B.SSF	420155.5179	52293
722032.686	4294196.276	6147	09-Jan-14	ALEX192014B.SSF	420156.498	52294
722031.878	4294197.188	6217	09-Jan-14	ALEX192014B.SSF	420157.491	52295
722031.203	4294197.761	6036	09-Jan-14	ALEX192014B.SSF	420158.421	52296
722030.845	4294197.984	6868	09-Jan-14	ALEX192014B.SSF	420159.485	52297
722030.675	4294198.136	5887	09-Jan-14	ALEX192014B.SSF	420160.504	52298
722030.424	4294198.323	5672	09-Jan-14	ALEX192014B.SSF	420161.635	52299
722030.065	4294198.49	5756	09-Jan-14	ALEX192014B.SSF	420162.493	52300
722029.438	4294198.771	6080	09-Jan-14	ALEX192014B.SSF	420163.561	52301
722028.924	4294199.359	6060	09-Jan-14	ALEX192014B.SSF	420164.531	52302
722028.227	4294200.469	6495	09-Jan-14	ALEX192014B.SSF	420165.59	52303
722027.305	4294201.476	6483	09-Jan-14	ALEX192014B.SSF	420166.575	52304
722026.581	4294202.242	6511	09-Jan-14	ALEX192014B.SSF	420167.6219	52305
722026.087	4294202.574	6037	09-Jan-14	ALEX192014B.SSF	420168.585	52306
722025.563	4294202.805	5579	09-Jan-14	ALEX192014B.SSF	420169.584	52307
722025.017	4294203.128	5943	09-Jan-14	ALEX192014B.SSF	420170.433	52308
722024.224	4294203.943	5653	09-Jan-14	ALEX192014B.SSF	420171.5861	52309
722023.607	4294204.708	5505	09-Jan-14	ALEX192014B.SSF	420172.485	52310
722022.857	4294205.479	5181	09-Jan-14	ALEX192014B.SSF	420173.587	52311
722022.461	4294206.007	5337	09-Jan-14	ALEX192014B.SSF	420174.5229	52312
722022.398	4294206.357	5784	09-Jan-14	ALEX192014B.SSF	420175.592	52313
722022.379	4294206.518	5886	09-Jan-14	ALEX192014B.SSF	420176.4919	52314
722022.525	4294206.592	5861	09-Jan-14	ALEX192014B.SSF	420177.597	52315
722023.015	4294206.184	5764	09-Jan-14	ALEX192014B.SSF	420178.433	52316
722023.735	4294205.315	5882	09-Jan-14	ALEX192014B.SSF	420179.522	52317
722024.34	4294204.734	6390	09-Jan-14	ALEX192014B.SSF	420180.566	52318
722024.877	4294204.351	7327	09-Jan-14	ALEX192014B.SSF	420181.578	52319
722025.359	4294203.964	6872	09-Jan-14	ALEX192014B.SSF	420182.48	52320
722026.344	4294203.427	7058	09-Jan-14	ALEX192014B.SSF	420183.609	52321
722027.291	4294203.087	6894	09-Jan-14	ALEX192014B.SSF	420184.467	52322
722028.148	4294202.551	6463	09-Jan-14	ALEX192014B.SSF	420185.606	52323
722028.608	4294201.987	6716	09-Jan-14	ALEX192014B.SSF	420186.498	52324
722029.156	4294201.234	7259	09-Jan-14	ALEX192014B.SSF	420187.538	52325

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722029.528	4294200.583	6974	09-Jan-14	ALEX192014B.SSF	420188.4919	52326
722030.046	4294199.823	6993	09-Jan-14	ALEX192014B.SSF	420189.569	52327
722030.719	4294199.094	6368	09-Jan-14	ALEX192014B.SSF	420190.49	52328
722031.512	4294198.168	5778	09-Jan-14	ALEX192014B.SSF	420191.634	52329
722032.147	4294197.372	5961	09-Jan-14	ALEX192014B.SSF	420192.4969	52330
722033.119	4294196.424	5993	09-Jan-14	ALEX192014B.SSF	420193.6169	52331
722033.756	4294195.713	6267	09-Jan-14	ALEX192014B.SSF	420194.528	52332
722034.31	4294194.695	7177	09-Jan-14	ALEX192014B.SSF	420195.597	52333
722034.875	4294193.89	6864	09-Jan-14	ALEX192014B.SSF	420196.472	52334
722035.763	4294193.214	6024	09-Jan-14	ALEX192014B.SSF	420197.5389	52335
722036.496	4294192.608	7029	09-Jan-14	ALEX192014B.SSF	420198.542	52336
722036.906	4294191.787	6677	09-Jan-14	ALEX192014B.SSF	420199.58	52337
722037	4294191.046	5599	09-Jan-14	ALEX192014B.SSF	420200.458	52338
722036.617	4294190.22	6239	09-Jan-14	ALEX192014B.SSF	420201.517	52339
722035.848	4294189.98	7110	09-Jan-14	ALEX192014B.SSF	420202.432	52340
722034.872	4294190.512	5737	09-Jan-14	ALEX192014B.SSF	420203.5179	52341
722034.064	4294191.031	5942	09-Jan-14	ALEX192014B.SSF	420204.39	52342
722033.205	4294191.577	5997	09-Jan-14	ALEX192014B.SSF	420205.528	52343
722033.03	4294192.255	7004	09-Jan-14	ALEX192014B.SSF	420206.42	52344
722032.863	4294193.05	6791	09-Jan-14	ALEX192014B.SSF	420207.516	52345
722032.407	4294193.396	6131	09-Jan-14	ALEX192014B.SSF	420208.417	52346
722031.86	4294193.994	6663	09-Jan-14	ALEX192014B.SSF	420209.522	52347
722031.481	4294194.746	7275	09-Jan-14	ALEX192014B.SSF	420210.425	52348
722030.819	4294195.292	6438	09-Jan-14	ALEX192014B.SSF	420211.495	52349
722030.265	4294195.605	6709	09-Jan-14	ALEX192014B.SSF	420212.454	52350
722029.855	4294196.299	6327	09-Jan-14	ALEX192014B.SSF	420213.516	52351
722029.459	4294196.748	6532	09-Jan-14	ALEX192014B.SSF	420214.4919	52352
722029.513	4294197.14	6583	09-Jan-14	ALEX192014B.SSF	420215.574	52353
722029.887	4294197.604	6145	09-Jan-14	ALEX192014B.SSF	420216.532	52354
722030.065	4294197.789	6039	09-Jan-14	ALEX192014B.SSF	420217.53	52355
722030.14	4294197.78	6390	09-Jan-14	ALEX192014B.SSF	420218.467	52356
722030.305	4294197.846	5617	09-Jan-14	ALEX192014B.SSF	420219.55	52357
722030.479	4294197.898	5447	09-Jan-14	ALEX192014B.SSF	420220.413	52358
722030.682	4294197.92	5734	09-Jan-14	ALEX192014B.SSF	420221.536	52359
722030.772	4294197.921	6120	09-Jan-14	ALEX192014B.SSF	420222.442	52360
722030.825	4294197.927	5475	09-Jan-14	ALEX192014B.SSF	420223.525	52361
722030.814	4294197.934	5779	09-Jan-14	ALEX192014B.SSF	420224.431	52362
722030.77	4294197.926	5996	09-Jan-14	ALEX192014B.SSF	420225.541	52363
722030.746	4294197.9	6162	09-Jan-14	ALEX192014B.SSF	420226.4969	52364
722030.709	4294197.873	5701	09-Jan-14	ALEX192014B.SSF	420227.554	52365
722030.7	4294197.837	5846	09-Jan-14	ALEX192014B.SSF	420228.434	52366
722030.727	4294197.776	6041	09-Jan-14	ALEX192014B.SSF	420229.55	52367
722064.651	4294213.108	6942	09-Jan-14	ALEX192014B.SSF	420390.3571	52368
722064.638	4294213.087	7165	09-Jan-14	ALEX192014B.SSF	420391.339	52369
722064.646	4294213.066	6801	09-Jan-14	ALEX192014B.SSF	420392.252	52370
722064.664	4294213.105	7370	09-Jan-14	ALEX192014B.SSF	420393.49	52371
722064.665	4294213.117	7782	09-Jan-14	ALEX192014B.SSF	420394.355	52372

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722064.598	4294212.991	6835	09-Jan-14	ALEX192014B.SSF	420395.504	52373
722064.526	4294212.826	7139	09-Jan-14	ALEX192014B.SSF	420396.4351	52374
722064.537	4294212.819	7064	09-Jan-14	ALEX192014B.SSF	420397.559	52375
722064.529	4294212.879	7376	09-Jan-14	ALEX192014B.SSF	420398.408	52376
722064.5	4294212.925	6884	09-Jan-14	ALEX192014B.SSF	420399.526	52377
722064.562	4294212.966	7301	09-Jan-14	ALEX192014B.SSF	420400.406	52378
722064.591	4294212.981	7615	09-Jan-14	ALEX192014B.SSF	420401.493	52379
722064.429	4294212.954	7693	09-Jan-14	ALEX192014B.SSF	420402.47	52380
722064.333	4294212.919	6663	09-Jan-14	ALEX192014B.SSF	420403.5179	52381
722064.428	4294212.907	7125	09-Jan-14	ALEX192014B.SSF	420404.467	52382
722064.687	4294212.654	6971	09-Jan-14	ALEX192014B.SSF	420405.462	52383
722065.197	4294212.002	6993	09-Jan-14	ALEX192014B.SSF	420406.35	52384
722066.258	4294211.02	7748	09-Jan-14	ALEX192014B.SSF	420407.4351	52385
722067.064	4294210.322	6677	09-Jan-14	ALEX192014B.SSF	420408.365	52386
722067.462	4294209.546	6179	09-Jan-14	ALEX192014B.SSF	420409.41	52387
722067.593	4294209.125	5234	09-Jan-14	ALEX192014B.SSF	420410.311	52388
722067.609	4294209.095	5779	09-Jan-14	ALEX192014B.SSF	420411.364	52389
722067.666	4294208.934	6607	09-Jan-14	ALEX192014B.SSF	420412.37	52390
722068.032	4294208.188	6601	09-Jan-14	ALEX192014B.SSF	420413.381	52391
722068.749	4294207.272	6210	09-Jan-14	ALEX192014B.SSF	420414.403	52392
722069.474	4294206.58	6442	09-Jan-14	ALEX192014B.SSF	420415.455	52393
722069.891	4294205.854	5941	09-Jan-14	ALEX192014B.SSF	420416.382	52394
722070.26	4294204.794	6232	09-Jan-14	ALEX192014B.SSF	420417.5229	52395
722070.646	4294204.232	5908	09-Jan-14	ALEX192014B.SSF	420418.382	52396
722071.322	4294203.667	6405	09-Jan-14	ALEX192014B.SSF	420419.481	52397
722071.854	4294203.027	6251	09-Jan-14	ALEX192014B.SSF	420420.3929	52398
722072.523	4294202.229	6273	09-Jan-14	ALEX192014B.SSF	420421.494	52399
722073.205	4294201.674	6998	09-Jan-14	ALEX192014B.SSF	420422.428	52400
722073.788	4294200.925	6549	09-Jan-14	ALEX192014B.SSF	420423.5229	52401
722074.199	4294200.134	6527	09-Jan-14	ALEX192014B.SSF	420424.422	52402
722074.954	4294199.319	6041	09-Jan-14	ALEX192014B.SSF	420425.451	52403
722075.895	4294198.713	5490	09-Jan-14	ALEX192014B.SSF	420426.468	52404
722076.652	4294197.941	6183	09-Jan-14	ALEX192014B.SSF	420427.47	52405
722077.191	4294197.086	5664	09-Jan-14	ALEX192014B.SSF	420428.416	52406
722077.835	4294196.223	6096	09-Jan-14	ALEX192014B.SSF	420429.5291	52407
722078.28	4294195.589	6036	09-Jan-14	ALEX192014B.SSF	420430.429	52408
722078.815	4294194.694	6463	09-Jan-14	ALEX192014B.SSF	420431.467	52409
722079.49	4294193.83	6866	09-Jan-14	ALEX192014B.SSF	420432.403	52410
722080.195	4294192.912	7176	09-Jan-14	ALEX192014B.SSF	420433.4351	52411
722080.514	4294191.966	7428	09-Jan-14	ALEX192014B.SSF	420434.41	52412
722080.819	4294190.966	8323	09-Jan-14	ALEX192014B.SSF	420435.457	52413
722081.366	4294189.998	7721	09-Jan-14	ALEX192014B.SSF	420436.46	52414
722081.849	4294188.978	8110	09-Jan-14	ALEX192014B.SSF	420437.502	52415
722082.236	4294188.08	8177	09-Jan-14	ALEX192014B.SSF	420438.4611	52416
722082.9	4294187.244	7564	09-Jan-14	ALEX192014B.SSF	420439.514	52417
722083.463	4294186.569	7082	09-Jan-14	ALEX192014B.SSF	420440.4351	52418
722083.872	4294185.701	7380	09-Jan-14	ALEX192014B.SSF	420441.483	52419

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722084.373	4294184.996	7365	09-Jan-14	ALEX192014B.SSF	420442.432	52420
722085.097	4294184.311	7811	09-Jan-14	ALEX192014B.SSF	420443.434	52421
722085.615	4294183.49	7413	09-Jan-14	ALEX192014B.SSF	420444.4301	52422
722085.987	4294182.557	7733	09-Jan-14	ALEX192014B.SSF	420445.4449	52423
722086.422	4294181.548	7123	09-Jan-14	ALEX192014B.SSF	420446.443	52424
722086.456	4294180.632	6911	09-Jan-14	ALEX192014B.SSF	420447.451	52425
722085.816	4294180.225	6947	09-Jan-14	ALEX192014B.SSF	420448.455	52426
722085.107	4294180.545	7196	09-Jan-14	ALEX192014B.SSF	420449.473	52427
722084.749	4294181.219	7349	09-Jan-14	ALEX192014B.SSF	420450.327	52428
722084.447	4294182.188	8527	09-Jan-14	ALEX192014B.SSF	420451.3781	52429
722084.064	4294183.124	7171	09-Jan-14	ALEX192014B.SSF	420452.338	52430
722083.199	4294184.234	7522	09-Jan-14	ALEX192014B.SSF	420453.439	52431
722082.275	4294185.067	6860	09-Jan-14	ALEX192014B.SSF	420454.36	52432
722081.448	4294186.071	7295	09-Jan-14	ALEX192014B.SSF	420455.437	52433
722080.949	4294187.162	7433	09-Jan-14	ALEX192014B.SSF	420456.392	52434
722080.23	4294188.365	8518	09-Jan-14	ALEX192014B.SSF	420457.457	52435
722079.392	4294189.266	7349	09-Jan-14	ALEX192014B.SSF	420458.377	52436
722078.49	4294190.313	6247	09-Jan-14	ALEX192014B.SSF	420459.4919	52437
722078.013	4294191.111	6511	09-Jan-14	ALEX192014B.SSF	420460.41	52438
722077.543	4294191.744	6817	09-Jan-14	ALEX192014B.SSF	420461.432	52439
722077.007	4294192.39	6924	09-Jan-14	ALEX192014B.SSF	420462.49	52440
722076.509	4294193.296	6181	09-Jan-14	ALEX192014B.SSF	420463.46	52441
722075.951	4294194.236	7065	09-Jan-14	ALEX192014B.SSF	420464.406	52442
722075.163	4294195.038	5786	09-Jan-14	ALEX192014B.SSF	420465.426	52443
722074.597	4294195.735	5767	09-Jan-14	ALEX192014B.SSF	420466.464	52444
722074.346	4294196.418	5929	09-Jan-14	ALEX192014B.SSF	420467.436	52445
722073.941	4294197.066	6993	09-Jan-14	ALEX192014B.SSF	420468.488	52446
722073.538	4294197.557	7538	09-Jan-14	ALEX192014B.SSF	420469.455	52447
722073.18	4294198.232	7104	09-Jan-14	ALEX192014B.SSF	420470.436	52448
722072.682	4294199.106	7656	09-Jan-14	ALEX192014B.SSF	420471.396	52449
722071.897	4294200.047	7464	09-Jan-14	ALEX192014B.SSF	420472.4	52450
722071.088	4294200.884	8166	09-Jan-14	ALEX192014B.SSF	420473.3929	52451
722070.508	4294201.704	7411	09-Jan-14	ALEX192014B.SSF	420474.356	52452
722070.193	4294202.78	7192	09-Jan-14	ALEX192014B.SSF	420475.417	52453
722069.761	4294203.644	7468	09-Jan-14	ALEX192014B.SSF	420476.434	52454
722068.985	4294204.325	7837	09-Jan-14	ALEX192014B.SSF	420477.455	52455
722068.245	4294205.036	6759	09-Jan-14	ALEX192014B.SSF	420478.472	52456
722067.619	4294205.854	5889	09-Jan-14	ALEX192014B.SSF	420479.4771	52457
722066.964	4294206.583	5908	09-Jan-14	ALEX192014B.SSF	420480.438	52458
722066.16	4294207.218	6625	09-Jan-14	ALEX192014B.SSF	420481.507	52459
722065.527	4294207.909	6576	09-Jan-14	ALEX192014B.SSF	420482.427	52460
722064.941	4294208.881	6294	09-Jan-14	ALEX192014B.SSF	420483.417	52461
722064.285	4294209.743	6463	09-Jan-14	ALEX192014B.SSF	420484.39	52462
722063.537	4294210.591	7106	09-Jan-14	ALEX192014B.SSF	420485.4771	52463
722063.186	4294211.303	6846	09-Jan-14	ALEX192014B.SSF	420486.446	52464
722063.048	4294211.473	6511	09-Jan-14	ALEX192014B.SSF	420487.506	52465
722063.02	4294210.96	6937	09-Jan-14	ALEX192014B.SSF	420488.406	52466

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722063.232	4294209.998	7104	09-Jan-14	ALEX192014B.SSF	420489.452	52467
722063.657	4294209.182	7266	09-Jan-14	ALEX192014B.SSF	420490.373	52468
722064.329	4294208.355	6976	09-Jan-14	ALEX192014B.SSF	420491.452	52469
722064.805	4294207.603	6604	09-Jan-14	ALEX192014B.SSF	420492.403	52470
722065.278	4294206.715	6421	09-Jan-14	ALEX192014B.SSF	420493.454	52471
722065.871	4294206.062	6735	09-Jan-14	ALEX192014B.SSF	420494.3459	52472
722066.737	4294205.445	5703	09-Jan-14	ALEX192014B.SSF	420495.384	52473
722067.404	4294204.702	5473	09-Jan-14	ALEX192014B.SSF	420496.412	52474
722067.895	4294203.998	5576	09-Jan-14	ALEX192014B.SSF	420497.437	52475
722068.419	4294203.453	5724	09-Jan-14	ALEX192014B.SSF	420498.343	52476
722069.029	4294202.662	5679	09-Jan-14	ALEX192014B.SSF	420499.444	52477
722069.362	4294201.839	5617	09-Jan-14	ALEX192014B.SSF	420500.359	52478
722069.846	4294200.777	6234	09-Jan-14	ALEX192014B.SSF	420501.441	52479
722070.441	4294200.002	6268	09-Jan-14	ALEX192014B.SSF	420502.324	52480
722071.056	4294199.073	7507	09-Jan-14	ALEX192014B.SSF	420503.452	52481
722071.38	4294198.292	6886	09-Jan-14	ALEX192014B.SSF	420504.3311	52482
722072.046	4294197.286	7421	09-Jan-14	ALEX192014B.SSF	420505.474	52483
722072.83	4294196.454	6625	09-Jan-14	ALEX192014B.SSF	420506.358	52484
722073.711	4294195.377	7926	09-Jan-14	ALEX192014B.SSF	420507.449	52485
722074.229	4294194.528	6751	09-Jan-14	ALEX192014B.SSF	420508.347	52486
722074.808	4294193.589	6907	09-Jan-14	ALEX192014B.SSF	420509.478	52487
722075.362	4294192.947	6857	09-Jan-14	ALEX192014B.SSF	420510.3521	52488
722076.039	4294192.104	6004	09-Jan-14	ALEX192014B.SSF	420511.438	52489
722076.512	4294191.316	7141	09-Jan-14	ALEX192014B.SSF	420512.395	52490
722077.101	4294190.494	6585	09-Jan-14	ALEX192014B.SSF	420513.484	52491
722077.766	4294189.907	6144	09-Jan-14	ALEX192014B.SSF	420514.407	52492
722078.43	4294189.145	5559	09-Jan-14	ALEX192014B.SSF	420515.467	52493
722078.78	4294188.264	6224	09-Jan-14	ALEX192014B.SSF	420516.416	52494
722079.192	4294187.295	5349	09-Jan-14	ALEX192014B.SSF	420517.452	52495
722079.852	4294186.389	5708	09-Jan-14	ALEX192014B.SSF	420518.448	52496
722080.278	4294185.412	5801	09-Jan-14	ALEX192014B.SSF	420519.446	52497
722080.627	4294184.468	6450	09-Jan-14	ALEX192014B.SSF	420520.4041	52498
722081.4	4294183.617	6442	09-Jan-14	ALEX192014B.SSF	420521.451	52499
722082.102	4294182.882	7040	09-Jan-14	ALEX192014B.SSF	420522.391	52500
722082.566	4294181.909	7310	09-Jan-14	ALEX192014B.SSF	420523.4919	52501
722082.981	4294181.282	7077	09-Jan-14	ALEX192014B.SSF	420524.36	52502
722083.731	4294180.566	7499	09-Jan-14	ALEX192014B.SSF	420525.3979	52503
722084.31	4294179.686	7095	09-Jan-14	ALEX192014B.SSF	420526.358	52504
722084.484	4294178.698	7623	09-Jan-14	ALEX192014B.SSF	420527.3879	52505
722084.248	4294177.917	7185	09-Jan-14	ALEX192014B.SSF	420528.351	52506
722083.677	4294177.655	6506	09-Jan-14	ALEX192014B.SSF	420529.394	52507
722083.018	4294178.001	7176	09-Jan-14	ALEX192014B.SSF	420530.386	52508
722082.471	4294178.477	7764	09-Jan-14	ALEX192014B.SSF	420531.425	52509
722082.138	4294179.019	7011	09-Jan-14	ALEX192014B.SSF	420532.3521	52510
722081.739	4294179.962	7932	09-Jan-14	ALEX192014B.SSF	420533.475	52511
722081.287	4294180.687	7653	09-Jan-14	ALEX192014B.SSF	420534.344	52512
722080.573	4294181.532	7043	09-Jan-14	ALEX192014B.SSF	420535.3571	52513

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722079.991	4294182.559	7100	09-Jan-14	ALEX192014B.SSF	420536.3	52514
722079.573	4294183.808	6755	09-Jan-14	ALEX192014B.SSF	420537.442	52515
722079.205	4294184.318	6368	09-Jan-14	ALEX192014B.SSF	420538.285	52516
722078.304	4294184.927	5972	09-Jan-14	ALEX192014B.SSF	420539.522	52517
722077.733	4294185.62	6022	09-Jan-14	ALEX192014B.SSF	420540.363	52518
722077.169	4294186.662	5944	09-Jan-14	ALEX192014B.SSF	420541.459	52519
722076.634	4294187.334	6624	09-Jan-14	ALEX192014B.SSF	420542.302	52520
722075.901	4294188.037	6936	09-Jan-14	ALEX192014B.SSF	420543.3669	52521
722075.447	4294188.811	7014	09-Jan-14	ALEX192014B.SSF	420544.311	52522
722074.976	4294189.899	6523	09-Jan-14	ALEX192014B.SSF	420545.401	52523
722074.315	4294190.804	6671	09-Jan-14	ALEX192014B.SSF	420546.343	52524
722073.612	4294191.74	5807	09-Jan-14	ALEX192014B.SSF	420547.377	52525
722073.216	4294192.671	6573	09-Jan-14	ALEX192014B.SSF	420548.292	52526
722072.636	4294193.735	6844	09-Jan-14	ALEX192014B.SSF	420549.342	52527
722071.884	4294194.495	7231	09-Jan-14	ALEX192014B.SSF	420550.337	52528
722070.983	4294195.14	7807	09-Jan-14	ALEX192014B.SSF	420551.392	52529
722070.26	4294195.932	7412	09-Jan-14	ALEX192014B.SSF	420552.324	52530
722069.643	4294197.271	7223	09-Jan-14	ALEX192014B.SSF	420553.433	52531
722069	4294198.292	7265	09-Jan-14	ALEX192014B.SSF	420554.345	52532
722067.88	4294199.185	6916	09-Jan-14	ALEX192014B.SSF	420555.444	52533
722067.078	4294199.872	7039	09-Jan-14	ALEX192014B.SSF	420556.4189	52534
722066.741	4294200.722	6499	09-Jan-14	ALEX192014B.SSF	420557.424	52535
722066.596	4294201.467	7055	09-Jan-14	ALEX192014B.SSF	420558.335	52536
722066.205	4294202.111	7223	09-Jan-14	ALEX192014B.SSF	420559.423	52537
722065.722	4294202.557	6606	09-Jan-14	ALEX192014B.SSF	420560.3149	52538
722065.257	4294203.227	5911	09-Jan-14	ALEX192014B.SSF	420561.434	52539
722064.908	4294203.997	6416	09-Jan-14	ALEX192014B.SSF	420562.338	52540
722064.202	4294204.873	7874	09-Jan-14	ALEX192014B.SSF	420563.432	52541
722063.593	4294205.319	7878	09-Jan-14	ALEX192014B.SSF	420564.351	52542
722063.085	4294205.888	7009	09-Jan-14	ALEX192014B.SSF	420565.396	52543
722062.669	4294206.699	7062	09-Jan-14	ALEX192014B.SSF	420566.3719	52544
722062.087	4294207.572	7255	09-Jan-14	ALEX192014B.SSF	420567.401	52545
722061.542	4294208.317	6944	09-Jan-14	ALEX192014B.SSF	420568.389	52546
722061.32	4294209.148	5978	09-Jan-14	ALEX192014B.SSF	420569.391	52547
722061.408	4294209.641	6112	09-Jan-14	ALEX192014B.SSF	420570.3571	52548
722061.407	4294209.364	6898	09-Jan-14	ALEX192014B.SSF	420571.3781	52549
722061.292	4294208.709	5744	09-Jan-14	ALEX192014B.SSF	420572.338	52550
722061.524	4294207.932	7914	09-Jan-14	ALEX192014B.SSF	420573.37	52551
722062.131	4294207.196	7258	09-Jan-14	ALEX192014B.SSF	420574.281	52552
722062.786	4294206.368	6194	09-Jan-14	ALEX192014B.SSF	420575.3571	52553
722063.182	4294205.584	6108	09-Jan-14	ALEX192014B.SSF	420576.38	52554
722063.789	4294204.693	6297	09-Jan-14	ALEX192014B.SSF	420577.444	52555
722064.488	4294203.913	6944	09-Jan-14	ALEX192014B.SSF	420578.3621	52556
722065.05	4294202.969	6416	09-Jan-14	ALEX192014B.SSF	420579.39	52557
722065.313	4294202.062	6164	09-Jan-14	ALEX192014B.SSF	420580.328	52558
722065.728	4294201.173	6731	09-Jan-14	ALEX192014B.SSF	420581.436	52559
722066.315	4294200.597	5912	09-Jan-14	ALEX192014B.SSF	420582.345	52560

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722066.869	4294199.923	6296	09-Jan-14	ALEX192014B.SSF	420583.356	52561
722067.372	4294199.205	5534	09-Jan-14	ALEX192014B.SSF	420584.3879	52562
722068.003	4294198.531	6635	09-Jan-14	ALEX192014B.SSF	420585.377	52563
722068.695	4294197.821	5708	09-Jan-14	ALEX192014B.SSF	420586.345	52564
722069.374	4294196.89	5986	09-Jan-14	ALEX192014B.SSF	420587.335	52565
722069.897	4294195.825	6727	09-Jan-14	ALEX192014B.SSF	420588.3051	52566
722070.599	4294194.824	6601	09-Jan-14	ALEX192014B.SSF	420589.422	52567
722071.379	4294194.218	7440	09-Jan-14	ALEX192014B.SSF	420590.349	52568
722072.096	4294193.42	6510	09-Jan-14	ALEX192014B.SSF	420591.421	52569
722072.615	4294192.422	7327	09-Jan-14	ALEX192014B.SSF	420592.444	52570
722073.18	4294191.485	6542	09-Jan-14	ALEX192014B.SSF	420593.468	52571
722073.832	4294190.807	7275	09-Jan-14	ALEX192014B.SSF	420594.376	52572
722074.458	4294190.097	7218	09-Jan-14	ALEX192014B.SSF	420595.429	52573
722074.695	4294189.5	7264	09-Jan-14	ALEX192014B.SSF	420596.34	52574
722074.967	4294188.803	6616	09-Jan-14	ALEX192014B.SSF	420597.444	52575
722075.458	4294188.181	6754	09-Jan-14	ALEX192014B.SSF	420598.342	52576
722076.134	4294187.283	6128	09-Jan-14	ALEX192014B.SSF	420599.464	52577
722076.588	4294186.508	5928	09-Jan-14	ALEX192014B.SSF	420600.324	52578
722077.15	4294185.497	6573	09-Jan-14	ALEX192014B.SSF	420601.356	52579
722077.732	4294184.689	6503	09-Jan-14	ALEX192014B.SSF	420602.274	52580
722078.459	4294183.872	6065	09-Jan-14	ALEX192014B.SSF	420603.416	52581
722078.838	4294183.125	6286	09-Jan-14	ALEX192014B.SSF	420604.3361	52582
722079.028	4294182.14	6281	09-Jan-14	ALEX192014B.SSF	420605.335	52583
722079.429	4294181.456	6940	09-Jan-14	ALEX192014B.SSF	420606.264	52584
722080.128	4294180.825	7045	09-Jan-14	ALEX192014B.SSF	420607.402	52585
722080.691	4294180.006	7251	09-Jan-14	ALEX192014B.SSF	420608.313	52586
722081.508	4294179.06	8172	09-Jan-14	ALEX192014B.SSF	420609.316	52587
722082.306	4294178.468	7893	09-Jan-14	ALEX192014B.SSF	420610.334	52588
722082.869	4294177.74	7493	09-Jan-14	ALEX192014B.SSF	420611.3459	52589
722083.091	4294176.826	7333	09-Jan-14	ALEX192014B.SSF	420612.266	52590
722082.692	4294175.782	7323	09-Jan-14	ALEX192014B.SSF	420613.375	52591
722081.939	4294175.652	6750	09-Jan-14	ALEX192014B.SSF	420614.287	52592
722080.912	4294176.665	6727	09-Jan-14	ALEX192014B.SSF	420615.4449	52593
722080.155	4294177.587	6482	09-Jan-14	ALEX192014B.SSF	420616.3311	52594
722079.272	4294178.515	6870	09-Jan-14	ALEX192014B.SSF	420617.3929	52595
722078.765	4294179.492	6817	09-Jan-14	ALEX192014B.SSF	420618.38	52596
722078.34	4294180.693	5931	09-Jan-14	ALEX192014B.SSF	420619.429	52597
722077.784	4294181.437	6334	09-Jan-14	ALEX192014B.SSF	420620.344	52598
722077.052	4294182.063	5813	09-Jan-14	ALEX192014B.SSF	420621.468	52599
722076.679	4294182.753	5835	09-Jan-14	ALEX192014B.SSF	420622.287	52600
722076.316	4294183.894	5869	09-Jan-14	ALEX192014B.SSF	420623.4399	52601
722075.83	4294184.501	6136	09-Jan-14	ALEX192014B.SSF	420624.297	52602
722075.163	4294185.181	6304	09-Jan-14	ALEX192014B.SSF	420625.434	52603
722074.834	4294186.081	6189	09-Jan-14	ALEX192014B.SSF	420626.358	52604
722074.229	4294187.272	6221	09-Jan-14	ALEX192014B.SSF	420627.411	52605
722073.361	4294187.936	7075	09-Jan-14	ALEX192014B.SSF	420628.345	52606
722072.234	4294188.339	7348	09-Jan-14	ALEX192014B.SSF	420629.4709	52607

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722071.597	4294188.778	6817	09-Jan-14	ALEX192014B.SSF	420630.339	52608
722071.21	4294189.648	7044	09-Jan-14	ALEX192014B.SSF	420631.365	52609
722070.852	4294190.568	7431	09-Jan-14	ALEX192014B.SSF	420632.3831	52610
722070.345	4294191.181	8217	09-Jan-14	ALEX192014B.SSF	420633.403	52611
722070.027	4294191.518	7604	09-Jan-14	ALEX192014B.SSF	420634.3361	52612
722069.997	4294191.661	7031	09-Jan-14	ALEX192014B.SSF	420635.332	52613
722070.122	4294191.696	6797	09-Jan-14	ALEX192014B.SSF	420636.283	52614
722070.315	4294191.801	7159	09-Jan-14	ALEX192014B.SSF	420637.39	52615
722070.287	4294191.939	7309	09-Jan-14	ALEX192014B.SSF	420638.3	52616
722069.821	4294192.356	7767	09-Jan-14	ALEX192014B.SSF	420639.41	52617
722069.05	4294192.921	7312	09-Jan-14	ALEX192014B.SSF	420640.368	52618
722068.207	4294193.523	6808	09-Jan-14	ALEX192014B.SSF	420641.4091	52619
722067.753	4294193.961	6232	09-Jan-14	ALEX192014B.SSF	420642.328	52620
722067.434	4294194.465	6328	09-Jan-14	ALEX192014B.SSF	420643.3459	52621
722066.955	4294195.298	7042	09-Jan-14	ALEX192014B.SSF	420644.377	52622
722066.202	4294196.159	6920	09-Jan-14	ALEX192014B.SSF	420645.463	52623
722065.598	4294196.82	7190	09-Jan-14	ALEX192014B.SSF	420646.365	52624
722065.006	4294197.99	7737	09-Jan-14	ALEX192014B.SSF	420647.408	52625
722064.608	4294199.17	7364	09-Jan-14	ALEX192014B.SSF	420648.371	52626
722064.083	4294199.986	5951	09-Jan-14	ALEX192014B.SSF	420649.403	52627
722063.452	4294200.443	6100	09-Jan-14	ALEX192014B.SSF	420650.369	52628
722062.957	4294201.06	6052	09-Jan-14	ALEX192014B.SSF	420651.436	52629
722062.531	4294201.874	5969	09-Jan-14	ALEX192014B.SSF	420652.401	52630
722061.885	4294202.624	7203	09-Jan-14	ALEX192014B.SSF	420653.363	52631
722061.29	4294203.315	5790	09-Jan-14	ALEX192014B.SSF	420654.395	52632
722060.919	4294204.255	6032	09-Jan-14	ALEX192014B.SSF	420655.3571	52633
722060.36	4294205.347	6642	09-Jan-14	ALEX192014B.SSF	420656.385	52634
722059.491	4294206.167	7060	09-Jan-14	ALEX192014B.SSF	420657.399	52635
722058.81	4294206.845	7615	09-Jan-14	ALEX192014B.SSF	420658.355	52636
722058.464	4294207.432	7423	09-Jan-14	ALEX192014B.SSF	420659.401	52637
722058.214	4294207.467	6266	09-Jan-14	ALEX192014B.SSF	420660.325	52638
722057.691	4294207.21	6126	09-Jan-14	ALEX192014B.SSF	420661.4449	52639
722057.482	4294207.119	6361	09-Jan-14	ALEX192014B.SSF	420662.3621	52640
722057.882	4294206.823	6075	09-Jan-14	ALEX192014B.SSF	420663.443	52641
722058.412	4294206.279	7518	09-Jan-14	ALEX192014B.SSF	420664.345	52642
722059.057	4294205.508	6409	09-Jan-14	ALEX192014B.SSF	420665.3571	52643
722059.771	4294204.865	6972	09-Jan-14	ALEX192014B.SSF	420666.309	52644
722060.315	4294204.257	6993	09-Jan-14	ALEX192014B.SSF	420667.322	52645
722060.572	4294203.568	6128	09-Jan-14	ALEX192014B.SSF	420668.333	52646
722061.03	4294202.932	5748	09-Jan-14	ALEX192014B.SSF	420669.309	52647
722061.818	4294202.226	6115	09-Jan-14	ALEX192014B.SSF	420670.308	52648
722062.34	4294201.263	6043	09-Jan-14	ALEX192014B.SSF	420671.33	52649
722062.622	4294200.255	5829	09-Jan-14	ALEX192014B.SSF	420672.351	52650
722063.155	4294199.318	5941	09-Jan-14	ALEX192014B.SSF	420673.3149	52651
722063.961	4294198.22	5959	09-Jan-14	ALEX192014B.SSF	420674.332	52652
722064.717	4294197.3	5730	09-Jan-14	ALEX192014B.SSF	420675.342	52653
722065.519	4294196.705	6178	09-Jan-14	ALEX192014B.SSF	420676.379	52654

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722066.592	4294195.486	6498	09-Jan-14	ALEX192014B.SSF	420678.351	52656
722067.097	4294194.911	6037	09-Jan-14	ALEX192014B.SSF	420679.369	52657
722067.649	4294194.425	6020	09-Jan-14	ALEX192014B.SSF	420680.3979	52658
722068.082	4294193.755	6731	09-Jan-14	ALEX192014B.SSF	420681.403	52659
722068.515	4294192.742	7263	09-Jan-14	ALEX192014B.SSF	420682.448	52660
722069.109	4294191.909	7515	09-Jan-14	ALEX192014B.SSF	420683.39	52661
722069.878	4294191.256	7368	09-Jan-14	ALEX192014B.SSF	420684.3719	52662
722070.404	4294190.508	7332	09-Jan-14	ALEX192014B.SSF	420685.3719	52663
722070.801	4294189.616	6993	09-Jan-14	ALEX192014B.SSF	420686.413	52664
722071.405	4294188.873	7028	09-Jan-14	ALEX192014B.SSF	420687.454	52665
722072.014	4294188.315	8957	09-Jan-14	ALEX192014B.SSF	420688.382	52666
722072.408	4294187.607	8149	09-Jan-14	ALEX192014B.SSF	420689.402	52667
722072.623	4294186.981	8097	09-Jan-14	ALEX192014B.SSF	420690.342	52668
722073.076	4294186.407	7934	09-Jan-14	ALEX192014B.SSF	420691.293	52669
722073.669	4294185.549	7053	09-Jan-14	ALEX192014B.SSF	420692.337	52670
722074.214	4294184.707	7133	09-Jan-14	ALEX192014B.SSF	420693.286	52671
722074.96	4294183.989	7213	09-Jan-14	ALEX192014B.SSF	420694.313	52672
722075.521	4294183.263	7653	09-Jan-14	ALEX192014B.SSF	420695.361	52673
722075.943	4294182.382	6683	09-Jan-14	ALEX192014B.SSF	420696.401	52674
722076.553	4294181.577	6530	09-Jan-14	ALEX192014B.SSF	420697.439	52675
722077.111	4294181.017	6252	09-Jan-14	ALEX192014B.SSF	420698.366	52676
722077.517	4294180.248	6199	09-Jan-14	ALEX192014B.SSF	420699.3979	52677
722078.036	4294179.249	6950	09-Jan-14	ALEX192014B.SSF	420700.4919	52678
722078.558	4294178.573	6477	09-Jan-14	ALEX192014B.SSF	420701.328	52679
722079.238	4294177.928	6839	09-Jan-14	ALEX192014B.SSF	420702.3409	52680
722079.946	4294177.109	6240	09-Jan-14	ALEX192014B.SSF	420703.349	52681
722080.517	4294176.087	6630	09-Jan-14	ALEX192014B.SSF	420704.354	52682
722080.948	4294175.181	6877	09-Jan-14	ALEX192014B.SSF	420705.431	52683
722080.866	4294174.591	6009	09-Jan-14	ALEX192014B.SSF	420706.358	52684
722080.106	4294174.3	6117	09-Jan-14	ALEX192014B.SSF	420707.39	52685
722079.298	4294174.402	7049	09-Jan-14	ALEX192014B.SSF	420708.396	52686
722078.84	4294174.57	7582	09-Jan-14	ALEX192014B.SSF	420709.3979	52687
722078.609	4294174.648	6635	09-Jan-14	ALEX192014B.SSF	420710.356	52688
722078.266	4294174.955	6428	09-Jan-14	ALEX192014B.SSF	420711.4541	52689
722077.961	4294175.486	5897	09-Jan-14	ALEX192014B.SSF	420712.2681	52690
722077.698	4294176.53	6606	09-Jan-14	ALEX192014B.SSF	420713.406	52691
722077.343	4294177.235	6331	09-Jan-14	ALEX192014B.SSF	420714.311	52692
722076.649	4294177.862	6982	09-Jan-14	ALEX192014B.SSF	420715.334	52693
722076.013	4294178.73	7805	09-Jan-14	ALEX192014B.SSF	420716.3569	52694
722075.566	4294179.677	7081	09-Jan-14	ALEX192014B.SSF	420717.354	52695
722074.973	4294180.398	7980	09-Jan-14	ALEX192014B.SSF	420718.3491	52696
722074.298	4294181.065	6525	09-Jan-14	ALEX192014B.SSF	420719.3621	52697
722074.162	4294181.742	6191	09-Jan-14	ALEX192014B.SSF	420720.3521	52698
722073.979	4294182.26	7218	09-Jan-14	ALEX192014B.SSF	420721.4221	52699
722073.435	4294182.584	6364	09-Jan-14	ALEX192014B.SSF	420722.3401	52700
722072.93	4294183.181	6901	09-Jan-14	ALEX192014B.SSF	420723.375	52701

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722072.628	4294184.107	7455	09-Jan-14	ALEX192014B.SSF	420724.312	52702
722072.049	4294185.129	7023	09-Jan-14	ALEX192014B.SSF	420725.335	52703
722071.265	4294185.882	7366	09-Jan-14	ALEX192014B.SSF	420726.332	52704
722070.451	4294186.769	7241	09-Jan-14	ALEX192014B.SSF	420727.397	52705
722069.898	4294187.732	6580	09-Jan-14	ALEX192014B.SSF	420728.3711	52706
722069.226	4294188.479	7045	09-Jan-14	ALEX192014B.SSF	420729.3821	52707
722068.377	4294188.964	7671	09-Jan-14	ALEX192014B.SSF	420730.3491	52708
722067.625	4294189.718	6747	09-Jan-14	ALEX192014B.SSF	420731.384	52709
722067.209	4294190.731	6667	09-Jan-14	ALEX192014B.SSF	420732.3259	52710
722066.647	4294191.636	5716	09-Jan-14	ALEX192014B.SSF	420733.3921	52711
722065.957	4294192.209	6200	09-Jan-14	ALEX192014B.SSF	420734.384	52712
722065.358	4294192.923	6560	09-Jan-14	ALEX192014B.SSF	420735.3589	52713
722064.983	4294193.898	6530	09-Jan-14	ALEX192014B.SSF	420736.3059	52714
722064.522	4294195	6102	09-Jan-14	ALEX192014B.SSF	420737.3181	52715
722063.698	4294195.851	6805	09-Jan-14	ALEX192014B.SSF	420738.3259	52716
722062.954	4294196.608	6141	09-Jan-14	ALEX192014B.SSF	420739.3359	52717
722062.518	4294197.497	6695	09-Jan-14	ALEX192014B.SSF	420740.3359	52718
722062.07	4294198.208	6803	09-Jan-14	ALEX192014B.SSF	420741.3611	52719
722061.563	4294198.706	6106	09-Jan-14	ALEX192014B.SSF	420742.303	52720
722061.106	4294199.451	5679	09-Jan-14	ALEX192014B.SSF	420743.3359	52721
722060.674	4294200.375	6960	09-Jan-14	ALEX192014B.SSF	420744.3279	52722
722059.792	4294201.339	6570	09-Jan-14	ALEX192014B.SSF	420745.3511	52723
722058.899	4294202.203	6712	09-Jan-14	ALEX192014B.SSF	420746.3479	52724
722058.416	4294203.257	6778	09-Jan-14	ALEX192014B.SSF	420747.3679	52725
722058.005	4294204.301	6404	09-Jan-14	ALEX192014B.SSF	420748.3069	52726
722057.039	4294205.188	6521	09-Jan-14	ALEX192014B.SSF	420749.3831	52727
722056.218	4294205.691	6560	09-Jan-14	ALEX192014B.SSF	420750.354	52728
722055.748	4294205.763	6550	09-Jan-14	ALEX192014B.SSF	420751.417	52729
722055.643	4294205.466	7427	09-Jan-14	ALEX192014B.SSF	420752.3521	52730
722055.942	4294204.835	7586	09-Jan-14	ALEX192014B.SSF	420753.3799	52731
722056.458	4294203.962	7176	09-Jan-14	ALEX192014B.SSF	420754.4109	52732
722056.923	4294203.321	6924	09-Jan-14	ALEX192014B.SSF	420755.354	52733
722057.228	4294203.032	7371	09-Jan-14	ALEX192014B.SSF	420756.3789	52734
722057.274	4294203.032	7122	09-Jan-14	ALEX192014B.SSF	420757.3989	52735
722057.172	4294203.159	6910	09-Jan-14	ALEX192014B.SSF	420758.397	52736
722057.086	4294203.212	6137	09-Jan-14	ALEX192014B.SSF	420759.375	52737
722057.099	4294203.18	6021	09-Jan-14	ALEX192014B.SSF	420760.344	52738
722057.123	4294203.152	6908	09-Jan-14	ALEX192014B.SSF	420761.2981	52739
722057.167	4294203.128	8057	09-Jan-14	ALEX192014B.SSF	420762.3391	52740
722057.197	4294203.097	7354	09-Jan-14	ALEX192014B.SSF	420763.332	52741
722057.176	4294203.054	7148	09-Jan-14	ALEX192014B.SSF	420764.3279	52742
722057.143	4294203.01	6797	09-Jan-14	ALEX192014B.SSF	420765.3601	52743
722057.167	4294202.938	6169	09-Jan-14	ALEX192014B.SSF	420766.302	52744
722057.164	4294202.756	7632	09-Jan-14	ALEX192014B.SSF	420767.3469	52745
722057.057	4294202.5	7518	09-Jan-14	ALEX192014B.SSF	420768.3191	52746
722056.981	4294202.363	6469	09-Jan-14	ALEX192014B.SSF	420769.3601	52747
722056.995	4294202.391	6777	09-Jan-14	ALEX192014B.SSF	420770.354	52748

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722057.033	4294202.439	6231	09-Jan-14	ALEX192014B.SSF	420771.3621	52749
722057.02	4294202.469	6957	09-Jan-14	ALEX192014B.SSF	420772.3101	52750
722056.951	4294202.526	7529	09-Jan-14	ALEX192014B.SSF	420773.3521	52751
722056.971	4294202.617	6502	09-Jan-14	ALEX192014B.SSF	420774.3069	52752
722057.047	4294202.688	6215	09-Jan-14	ALEX192014B.SSF	420775.3679	52753
722057.09	4294202.712	6563	09-Jan-14	ALEX192014B.SSF	420776.3589	52754
722057.159	4294202.686	6561	09-Jan-14	ALEX192014B.SSF	420777.3999	52755
722057.242	4294202.635	6240	09-Jan-14	ALEX192014B.SSF	420778.364	52756
722057.295	4294202.589	6270	09-Jan-14	ALEX192014B.SSF	420779.3679	52757
722057.292	4294202.556	7147	09-Jan-14	ALEX192014B.SSF	420780.332	52758
722057.432	4294202.36	6317	09-Jan-14	ALEX192014B.SSF	420781.5759	52759
722057.605	4294202.038	6439	09-Jan-14	ALEX192014B.SSF	420782.302	52760
722057.826	4294201.365	7579	09-Jan-14	ALEX192014B.SSF	420783.3391	52761
722058.198	4294200.778	6125	09-Jan-14	ALEX192014B.SSF	420784.3621	52762
722058.971	4294200.196	6241	09-Jan-14	ALEX192014B.SSF	420785.3669	52763
722059.683	4294199.501	6450	09-Jan-14	ALEX192014B.SSF	420786.2739	52764
722060.331	4294198.565	6802	09-Jan-14	ALEX192014B.SSF	420787.2649	52765
722061.022	4294197.699	6260	09-Jan-14	ALEX192014B.SSF	420788.271	52766
722062.013	4294197.123	6275	09-Jan-14	ALEX192014B.SSF	420789.2981	52767
722062.926	4294196.376	6188	09-Jan-14	ALEX192014B.SSF	420790.365	52768
722063.5	4294195.242	6197	09-Jan-14	ALEX192014B.SSF	420791.4419	52769
722063.87	4294194.301	6379	09-Jan-14	ALEX192014B.SSF	420792.3169	52770
722064.566	4294193.334	7204	09-Jan-14	ALEX192014B.SSF	420793.416	52771
722065.188	4294192.574	6481	09-Jan-14	ALEX192014B.SSF	420794.3181	52772
722065.719	4294191.5	6390	09-Jan-14	ALEX192014B.SSF	420795.363	52773
722066.121	4294190.51	6791	09-Jan-14	ALEX192014B.SSF	420796.3091	52774
722066.822	4294189.6	5951	09-Jan-14	ALEX192014B.SSF	420797.407	52775
722067.431	4294189.05	6266	09-Jan-14	ALEX192014B.SSF	420798.2959	52776
722067.966	4294188.219	6115	09-Jan-14	ALEX192014B.SSF	420799.3899	52777
722068.326	4294187.359	6568	09-Jan-14	ALEX192014B.SSF	420800.323	52778
722068.961	4294186.546	6832	09-Jan-14	ALEX192014B.SSF	420801.3359	52779
722069.603	4294185.772	7498	09-Jan-14	ALEX192014B.SSF	420802.353	52780
722070.046	4294184.779	7244	09-Jan-14	ALEX192014B.SSF	420803.3799	52781
722070.5	4294183.737	8111	09-Jan-14	ALEX192014B.SSF	420804.387	52782
722071.265	4294182.97	6917	09-Jan-14	ALEX192014B.SSF	420805.3279	52783
722072.341	4294182.408	6799	09-Jan-14	ALEX192014B.SSF	420806.332	52784
722073.033	4294181.787	6859	09-Jan-14	ALEX192014B.SSF	420807.3979	52785
722073.378	4294180.978	7325	09-Jan-14	ALEX192014B.SSF	420808.4031	52786
722074.041	4294180.244	6481	09-Jan-14	ALEX192014B.SSF	420809.356	52787
722074.99	4294179.746	7050	09-Jan-14	ALEX192014B.SSF	420810.3379	52788
722075.442	4294179.14	8122	09-Jan-14	ALEX192014B.SSF	420811.4099	52789
722075.562	4294178.556	6950	09-Jan-14	ALEX192014B.SSF	420812.3149	52790
722075.938	4294177.85	6207	09-Jan-14	ALEX192014B.SSF	420813.321	52791
722076.514	4294176.913	5902	09-Jan-14	ALEX192014B.SSF	420814.293	52792
722077.217	4294176.036	6342	09-Jan-14	ALEX192014B.SSF	420815.333	52793
722077.501	4294175.537	7405	09-Jan-14	ALEX192014B.SSF	420816.3359	52794
722077.459	4294174.976	6711	09-Jan-14	ALEX192014B.SSF	420817.344	52795

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722077.875	4294174.253	6447	09-Jan-14	ALEX192014B.SSF	420818.3411	52796
722078.548	4294173.413	5928	09-Jan-14	ALEX192014B.SSF	420819.3579	52797
722079.086	4294172.675	6036	09-Jan-14	ALEX192014B.SSF	420820.2681	52798
722079.242	4294172.065	6351	09-Jan-14	ALEX192014B.SSF	420821.3091	52799
722078.635	4294171.782	7258	09-Jan-14	ALEX192014B.SSF	420822.325	52800
722077.692	4294171.416	6884	09-Jan-14	ALEX192014B.SSF	420823.3579	52801
722076.713	4294171.174	6491	09-Jan-14	ALEX192014B.SSF	420824.311	52802
722076.124	4294171.551	7532	09-Jan-14	ALEX192014B.SSF	420825.418	52803
722076.176	4294172.361	7253	09-Jan-14	ALEX192014B.SSF	420826.408	52804
722075.97	4294173.325	7513	09-Jan-14	ALEX192014B.SSF	420827.376	52805
722075.216	4294174.216	7608	09-Jan-14	ALEX192014B.SSF	420828.375	52806
722074.251	4294174.907	7482	09-Jan-14	ALEX192014B.SSF	420829.394	52807
722073.482	4294175.49	7120	09-Jan-14	ALEX192014B.SSF	420830.333	52808
722072.811	4294176.363	7720	09-Jan-14	ALEX192014B.SSF	420831.425	52809
722072.37	4294177.214	7630	09-Jan-14	ALEX192014B.SSF	420832.301	52810
722071.709	4294178.241	7727	09-Jan-14	ALEX192014B.SSF	420833.387	52811
722071.053	4294179.191	7331	09-Jan-14	ALEX192014B.SSF	420834.407	52812
722070.435	4294180.126	6933	09-Jan-14	ALEX192014B.SSF	420835.373	52813
722069.635	4294181.127	6923	09-Jan-14	ALEX192014B.SSF	420836.356	52814
722068.725	4294182.125	6110	09-Jan-14	ALEX192014B.SSF	420837.313	52815
722067.843	4294183.133	7467	09-Jan-14	ALEX192014B.SSF	420838.333	52816
722067.226	4294184.143	8197	09-Jan-14	ALEX192014B.SSF	420839.3689	52817
722066.748	4294185.068	7089	09-Jan-14	ALEX192014B.SSF	420840.2991	52818
722066.013	4294185.916	7112	09-Jan-14	ALEX192014B.SSF	420841.3511	52819
722065.332	4294186.605	7898	09-Jan-14	ALEX192014B.SSF	420842.3269	52820
722064.846	4294187.661	6084	09-Jan-14	ALEX192014B.SSF	420843.3479	52821
722064.399	4294188.831	8151	09-Jan-14	ALEX192014B.SSF	420844.2739	52822
722063.547	4294189.972	7677	09-Jan-14	ALEX192014B.SSF	420845.364	52823
722062.923	4294190.806	6809	09-Jan-14	ALEX192014B.SSF	420846.356	52824
722062.499	4294191.75	7222	09-Jan-14	ALEX192014B.SSF	420847.3911	52825
722061.92	4294192.64	6755	09-Jan-14	ALEX192014B.SSF	420848.3999	52826
722061.337	4294193.33	7538	09-Jan-14	ALEX192014B.SSF	420849.355	52827
722061.034	4294194.061	6444	09-Jan-14	ALEX192014B.SSF	420850.3059	52828
722060.719	4294194.88	6651	09-Jan-14	ALEX192014B.SSF	420851.335	52829
722059.98	4294195.538	7392	09-Jan-14	ALEX192014B.SSF	420852.323	52830
722059.295	4294196.26	7788	09-Jan-14	ALEX192014B.SSF	420853.3311	52831
722058.929	4294197.165	6807	09-Jan-14	ALEX192014B.SSF	420854.2981	52832
722058.474	4294198.096	7101	09-Jan-14	ALEX192014B.SSF	420855.3569	52833
722057.823	4294198.71	6755	09-Jan-14	ALEX192014B.SSF	420856.302	52834
722057.145	4294199.455	7268	09-Jan-14	ALEX192014B.SSF	420857.3259	52835
722056.612	4294200.376	6677	09-Jan-14	ALEX192014B.SSF	420858.343	52836
722055.988	4294201.113	6919	09-Jan-14	ALEX192014B.SSF	420859.3369	52837
722055.342	4294201.667	7699	09-Jan-14	ALEX192014B.SSF	420860.303	52838
722054.793	4294202.498	6875	09-Jan-14	ALEX192014B.SSF	420861.325	52839
722054.409	4294203.24	6038	09-Jan-14	ALEX192014B.SSF	420862.3181	52840
722054.089	4294203.373	6614	09-Jan-14	ALEX192014B.SSF	420863.333	52841
722053.839	4294203.12	6843	09-Jan-14	ALEX192014B.SSF	420864.3169	52842

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722053.598	4294202.852	7080	09-Jan-14	ALEX192014B.SSF	420865.3401	52843
722053.459	4294202.771	5790	09-Jan-14	ALEX192014B.SSF	420866.3459	52844
722053.496	4294202.779	6341	09-Jan-14	ALEX192014B.SSF	420867.384	52845
722053.56	4294202.824	7225	09-Jan-14	ALEX192014B.SSF	420868.229	52846
722053.33	4294203.179	6054	09-Jan-14	ALEX192014B.SSF	420869.3269	52847
722053.075	4294203.324	6011	09-Jan-14	ALEX192014B.SSF	420870.3101	52848
722053.326	4294202.778	7112	09-Jan-14	ALEX192014B.SSF	420871.2981	52849
722053.902	4294201.797	7178	09-Jan-14	ALEX192014B.SSF	420872.314	52850
722054.53	4294201.009	7104	09-Jan-14	ALEX192014B.SSF	420873.312	52851
722055.284	4294200.357	6816	09-Jan-14	ALEX192014B.SSF	420874.2959	52852
722055.969	4294199.288	7974	09-Jan-14	ALEX192014B.SSF	420875.3701	52853
722056.602	4294198.205	7033	09-Jan-14	ALEX192014B.SSF	420876.3689	52854
722057.535	4294197.285	6558	09-Jan-14	ALEX192014B.SSF	420877.4141	52855
722058.323	4294196.533	6939	09-Jan-14	ALEX192014B.SSF	420878.3669	52856
722058.779	4294195.646	6582	09-Jan-14	ALEX192014B.SSF	420879.397	52857
722059.071	4294194.851	7105	09-Jan-14	ALEX192014B.SSF	420880.3779	52858
722059.743	4294194.055	5904	09-Jan-14	ALEX192014B.SSF	420881.4751	52859
722060.349	4294193.317	6204	09-Jan-14	ALEX192014B.SSF	420882.3701	52860
722060.821	4294192.314	6441	09-Jan-14	ALEX192014B.SSF	420883.4009	52861
722061.281	4294191.423	7010	09-Jan-14	ALEX192014B.SSF	420884.3811	52862
722062.009	4294190.677	7272	09-Jan-14	ALEX192014B.SSF	420885.3469	52863
722062.709	4294189.852	7548	09-Jan-14	ALEX192014B.SSF	420886.3279	52864
722063.265	4294188.781	7317	09-Jan-14	ALEX192014B.SSF	420887.4331	52865
722063.698	4294187.967	7229	09-Jan-14	ALEX192014B.SSF	420888.2949	52866
722064.287	4294187.073	6937	09-Jan-14	ALEX192014B.SSF	420889.3279	52867
722064.742	4294186.073	7344	09-Jan-14	ALEX192014B.SSF	420890.3459	52868
722065.238	4294185.211	6696	09-Jan-14	ALEX192014B.SSF	420891.3169	52869
722065.92	4294184.577	7044	09-Jan-14	ALEX192014B.SSF	420892.2581	52870
722066.503	4294184.001	7221	09-Jan-14	ALEX192014B.SSF	420893.2771	52871
722066.866	4294183.234	7325	09-Jan-14	ALEX192014B.SSF	420894.2991	52872
722067.33	4294182.267	7291	09-Jan-14	ALEX192014B.SSF	420895.3579	52873
722068.059	4294181.535	7342	09-Jan-14	ALEX192014B.SSF	420896.2971	52874
722068.899	4294180.787	7865	09-Jan-14	ALEX192014B.SSF	420897.332	52875
722069.445	4294179.998	7336	09-Jan-14	ALEX192014B.SSF	420898.2939	52876
722070.03	4294179.057	7264	09-Jan-14	ALEX192014B.SSF	420899.3181	52877
722070.8	4294178.224	6496	09-Jan-14	ALEX192014B.SSF	420900.281	52878
722071.572	4294177.608	7564	09-Jan-14	ALEX192014B.SSF	420901.2471	52879
722072.146	4294177.047	7561	09-Jan-14	ALEX192014B.SSF	420902.2891	52880
722072.663	4294176.402	6900	09-Jan-14	ALEX192014B.SSF	420903.3301	52881
722073.287	4294175.808	7845	09-Jan-14	ALEX192014B.SSF	420904.3	52882
722073.765	4294175.227	6881	09-Jan-14	ALEX192014B.SSF	420905.3669	52883
722074.04	4294174.571	7180	09-Jan-14	ALEX192014B.SSF	420906.364	52884
722074.568	4294173.863	7435	09-Jan-14	ALEX192014B.SSF	420907.3669	52885
722074.985	4294173.403	6898	09-Jan-14	ALEX192014B.SSF	420908.3811	52886
722075.016	4294172.904	6854	09-Jan-14	ALEX192014B.SSF	420909.387	52887
722074.886	4294172.213	7353	09-Jan-14	ALEX192014B.SSF	420910.2949	52888
722074.719	4294171.521	7448	09-Jan-14	ALEX192014B.SSF	420911.3101	52889

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722074.515	4294171.359	7592	09-Jan-14	ALEX192014B.SSF	420912.23	52890
722074.288	4294171.78	7208	09-Jan-14	ALEX192014B.SSF	420913.3459	52891
722074.057	4294172.32	6392	09-Jan-14	ALEX192014B.SSF	420914.2939	52892
722073.462	4294172.745	7628	09-Jan-14	ALEX192014B.SSF	420915.3579	52893
722072.831	4294173	7037	09-Jan-14	ALEX192014B.SSF	420916.3279	52894
722072.387	4294173.613	7549	09-Jan-14	ALEX192014B.SSF	420917.394	52895
722071.951	4294174.408	7437	09-Jan-14	ALEX192014B.SSF	420918.324	52896
722071.126	4294175.208	6359	09-Jan-14	ALEX192014B.SSF	420919.377	52897
722070.313	4294175.716	6194	09-Jan-14	ALEX192014B.SSF	420920.3479	52898
722069.793	4294176.344	6648	09-Jan-14	ALEX192014B.SSF	420921.4031	52899
722069.566	4294177.173	7812	09-Jan-14	ALEX192014B.SSF	420922.3391	52900
722069.105	4294178.091	7773	09-Jan-14	ALEX192014B.SSF	420923.3611	52901
722068.397	4294178.776	7253	09-Jan-14	ALEX192014B.SSF	420924.3569	52902
722067.756	4294179.307	6463	09-Jan-14	ALEX192014B.SSF	420925.302	52903
722067.245	4294180.162	7046	09-Jan-14	ALEX192014B.SSF	420926.3689	52904
722066.62	4294181.163	6771	09-Jan-14	ALEX192014B.SSF	420927.3931	52905
722065.879	4294181.948	7962	09-Jan-14	ALEX192014B.SSF	420928.2891	52906
722065.028	4294182.706	7420	09-Jan-14	ALEX192014B.SSF	420929.406	52907
722064.592	4294183.308	6115	09-Jan-14	ALEX192014B.SSF	420930.2649	52908
722064.168	4294184.373	6988	09-Jan-14	ALEX192014B.SSF	420931.3149	52909
722063.609	4294185.391	5287	09-Jan-14	ALEX192014B.SSF	420932.2561	52910
722062.759	4294186.384	6034	09-Jan-14	ALEX192014B.SSF	420933.332	52911
722062.087	4294187.142	6372	09-Jan-14	ALEX192014B.SSF	420934.2649	52912
722061.45	4294188.227	7053	09-Jan-14	ALEX192014B.SSF	420935.363	52913
722060.855	4294189.156	6623	09-Jan-14	ALEX192014B.SSF	420936.3159	52914
722060.067	4294189.971	6815	09-Jan-14	ALEX192014B.SSF	420937.437	52915
722059.548	4294190.637	6471	09-Jan-14	ALEX192014B.SSF	420938.292	52916
722058.884	4294191.673	5997	09-Jan-14	ALEX192014B.SSF	420939.4089	52917
722058.069	4294192.414	6636	09-Jan-14	ALEX192014B.SSF	420940.3469	52918
722057.249	4294193.1	6879	09-Jan-14	ALEX192014B.SSF	420941.3259	52919
722056.668	4294194.015	6459	09-Jan-14	ALEX192014B.SSF	420942.313	52920
722056.19	4294195.134	7045	09-Jan-14	ALEX192014B.SSF	420943.3701	52921
722055.607	4294196.011	6801	09-Jan-14	ALEX192014B.SSF	420944.343	52922
722054.908	4294196.822	7400	09-Jan-14	ALEX192014B.SSF	420945.3391	52923
722054.36	4294197.784	7130	09-Jan-14	ALEX192014B.SSF	420946.3401	52924
722053.851	4294198.886	6522	09-Jan-14	ALEX192014B.SSF	420947.3459	52925
722053.168	4294199.759	6670	09-Jan-14	ALEX192014B.SSF	420948.355	52926
722052.591	4294200.334	6527	09-Jan-14	ALEX192014B.SSF	420949.3521	52927
722052.189	4294200.877	7151	09-Jan-14	ALEX192014B.SSF	420950.2681	52928
722051.778	4294201.402	7368	09-Jan-14	ALEX192014B.SSF	420951.3479	52929
722051.504	4294201.231	6012	09-Jan-14	ALEX192014B.SSF	420952.251	52930
722051.551	4294200.57	6591	09-Jan-14	ALEX192014B.SSF	420953.355	52931
722051.791	4294200.012	6238	09-Jan-14	ALEX192014B.SSF	420954.29	52932
722052.104	4294199.491	6479	09-Jan-14	ALEX192014B.SSF	420955.3	52933
722052.694	4294199.011	7200	09-Jan-14	ALEX192014B.SSF	420956.2739	52934
722053.391	4294198.133	7380	09-Jan-14	ALEX192014B.SSF	420957.3501	52935
722053.936	4294197.146	7155	09-Jan-14	ALEX192014B.SSF	420958.343	52936

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722055.229	4294195.663	6387	09-Jan-14	ALEX192014B.SSF	420960.2981	52938
722055.721	4294194.843	7116	09-Jan-14	ALEX192014B.SSF	420961.27	52939
722056.174	4294194.116	6909	09-Jan-14	ALEX192014B.SSF	420962.2959	52940
722056.763	4294193.51	6587	09-Jan-14	ALEX192014B.SSF	420963.2639	52941
722057.366	4294192.637	6626	09-Jan-14	ALEX192014B.SSF	420964.301	52942
722058.051	4294191.519	7266	09-Jan-14	ALEX192014B.SSF	420965.355	52943
722058.831	4294190.569	5986	09-Jan-14	ALEX192014B.SSF	420966.3049	52944
722059.901	4294189.731	7000	09-Jan-14	ALEX192014B.SSF	420967.3491	52945
722060.622	4294189.046	7960	09-Jan-14	ALEX192014B.SSF	420968.2451	52946
722061.207	4294187.955	6580	09-Jan-14	ALEX192014B.SSF	420969.3579	52947
722061.695	4294186.989	6955	09-Jan-14	ALEX192014B.SSF	420970.2981	52948
722062.46	4294186.041	7258	09-Jan-14	ALEX192014B.SSF	420971.332	52949
722063.026	4294185.233	7754	09-Jan-14	ALEX192014B.SSF	420972.2629	52950
722063.478	4294184.209	6678	09-Jan-14	ALEX192014B.SSF	420973.3259	52951
722063.871	4294183.36	6479	09-Jan-14	ALEX192014B.SSF	420974.239	52952
722064.665	4294182.594	6690	09-Jan-14	ALEX192014B.SSF	420975.3601	52953
722065.29	4294181.938	6142	09-Jan-14	ALEX192014B.SSF	420976.312	52954
722065.731	4294180.962	6545	09-Jan-14	ALEX192014B.SSF	420977.353	52955
722066.045	4294180.035	6676	09-Jan-14	ALEX192014B.SSF	420978.239	52956
722066.832	4294179.187	7489	09-Jan-14	ALEX192014B.SSF	420979.4109	52957
722067.49	4294178.714	6792	09-Jan-14	ALEX192014B.SSF	420980.2161	52958
722068.057	4294177.901	7218	09-Jan-14	ALEX192014B.SSF	420981.2891	52959
722068.482	4294177.35	6244	09-Jan-14	ALEX192014B.SSF	420982.3689	52960
722068.865	4294176.971	6871	09-Jan-14	ALEX192014B.SSF	420983.366	52961
722069.142	4294176.366	6427	09-Jan-14	ALEX192014B.SSF	420984.2771	52962
722069.665	4294175.529	6617	09-Jan-14	ALEX192014B.SSF	420985.3401	52963
722070.411	4294174.803	7324	09-Jan-14	ALEX192014B.SSF	420986.2571	52964
722071.19	4294173.835	7441	09-Jan-14	ALEX192014B.SSF	420987.373	52965
722071.625	4294173.07	7350	09-Jan-14	ALEX192014B.SSF	420988.2981	52966
722072.193	4294172.384	7807	09-Jan-14	ALEX192014B.SSF	420989.3701	52967
722072.756	4294171.845	6902	09-Jan-14	ALEX192014B.SSF	420990.292	52968
722073.002	4294171.15	7365	09-Jan-14	ALEX192014B.SSF	420991.4541	52969
722072.864	4294170.679	6671	09-Jan-14	ALEX192014B.SSF	420992.2871	52970
722072.496	4294170.108	6558	09-Jan-14	ALEX192014B.SSF	420993.3279	52971
722072.21	4294169.563	6829	09-Jan-14	ALEX192014B.SSF	420994.3311	52972
722072.068	4294168.933	7617	09-Jan-14	ALEX192014B.SSF	420995.325	52973
722071.971	4294168.489	7484	09-Jan-14	ALEX192014B.SSF	420996.3391	52974
722071.858	4294168.429	6761	09-Jan-14	ALEX192014B.SSF	420997.3069	52975
722071.485	4294168.397	6940	09-Jan-14	ALEX192014B.SSF	420998.3159	52976
722070.824	4294168.251	6565	09-Jan-14	ALEX192014B.SSF	420999.3379	52977
722070.263	4294168.067	6471	09-Jan-14	ALEX192014B.SSF	421000.334	52978
722070.284	4294167.971	6627	09-Jan-14	ALEX192014B.SSF	421001.2759	52979
722070.668	4294167.94	7087	09-Jan-14	ALEX192014B.SSF	421002.187	52980
722070.794	4294167.862	7021	09-Jan-14	ALEX192014B.SSF	421003.353	52981
722070.805	4294167.803	6465	09-Jan-14	ALEX192014B.SSF	421004.3069	52982
722070.843	4294167.791	6866	09-Jan-14	ALEX192014B.SSF	421005.3191	52983

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722070.954	4294167.782	6714	09-Jan-14	ALEX192014B.SSF	421007.3459	52985
722071.003	4294167.8	6718	09-Jan-14	ALEX192014B.SSF	421008.147	52986
722070.988	4294167.871	6389	09-Jan-14	ALEX192014B.SSF	421009.324	52987
722070.735	4294167.986	7297	09-Jan-14	ALEX192014B.SSF	421010.3301	52988
722070.51	4294167.892	7404	09-Jan-14	ALEX192014B.SSF	421011.374	52989
722070.481	4294167.764	8151	09-Jan-14	ALEX192014B.SSF	421012.3411	52990
722070.472	4294167.926	7647	09-Jan-14	ALEX192014B.SSF	421013.3979	52991
722070.515	4294168.27	7912	09-Jan-14	ALEX192014B.SSF	421014.2729	52992
722070.589	4294168.547	7468	09-Jan-14	ALEX192014B.SSF	421015.3201	52993
722070.519	4294168.783	7927	09-Jan-14	ALEX192014B.SSF	421016.269	52994
722070.249	4294169.603	6961	09-Jan-14	ALEX192014B.SSF	421017.3159	52995
722069.771	4294170.623	6420	09-Jan-14	ALEX192014B.SSF	421018.3091	52996
722069.056	4294171.465	7425	09-Jan-14	ALEX192014B.SSF	421019.2729	52997
722068.499	4294172.159	7016	09-Jan-14	ALEX192014B.SSF	421020.2881	52998
722068.111	4294173.082	7604	09-Jan-14	ALEX192014B.SSF	421021.4131	52999
722067.615	4294173.666	8441	09-Jan-14	ALEX192014B.SSF	421022.3259	53000
722066.975	4294174.153	7150	09-Jan-14	ALEX192014B.SSF	421023.3301	53001
722066.584	4294174.992	7457	09-Jan-14	ALEX192014B.SSF	421024.343	53002
722066.284	4294175.806	7144	09-Jan-14	ALEX192014B.SSF	421025.3811	53003
722065.824	4294176.371	7246	09-Jan-14	ALEX192014B.SSF	421026.2749	53004
722065.109	4294177.598	7391	09-Jan-14	ALEX192014B.SSF	421027.396	53005
722064.474	4294178.79	7998	09-Jan-14	ALEX192014B.SSF	421028.332	53006
722063.65	4294179.818	7789	09-Jan-14	ALEX192014B.SSF	421029.3689	53007
722062.94	4294180.423	7587	09-Jan-14	ALEX192014B.SSF	421030.301	53008
722062.367	4294181.113	7087	09-Jan-14	ALEX192014B.SSF	421031.3191	53009
722061.949	4294182.093	8011	09-Jan-14	ALEX192014B.SSF	421032.2539	53010
722061.427	4294183.382	7912	09-Jan-14	ALEX192014B.SSF	421033.3359	53011
722060.757	4294184.239	7798	09-Jan-14	ALEX192014B.SSF	421034.3279	53012
722060.132	4294184.848	6929	09-Jan-14	ALEX192014B.SSF	421035.343	53013
722059.692	4294185.579	6532	09-Jan-14	ALEX192014B.SSF	421036.314	53014
722059.068	4294186.69	6913	09-Jan-14	ALEX192014B.SSF	421037.397	53015
722058.316	4294187.523	7008	09-Jan-14	ALEX192014B.SSF	421038.2749	53016
722057.425	4294188.298	7152	09-Jan-14	ALEX192014B.SSF	421039.3811	53017
722056.9	4294189.016	6978	09-Jan-14	ALEX192014B.SSF	421040.2771	53018
722056.395	4294190.12	7984	09-Jan-14	ALEX192014B.SSF	421041.2939	53019
722055.792	4294191.049	6376	09-Jan-14	ALEX192014B.SSF	421042.2561	53020
722055.146	4294191.735	6844	09-Jan-14	ALEX192014B.SSF	421043.2161	53021
722054.663	4294192.445	7531	09-Jan-14	ALEX192014B.SSF	421044.134	53022
722054.1	4294193.946	6682	09-Jan-14	ALEX192014B.SSF	421045.3291	53023
722053.37	4294195.144	6560	09-Jan-14	ALEX192014B.SSF	421046.3311	53024
722052.43	4294196.003	6740	09-Jan-14	ALEX192014B.SSF	421047.3459	53025
722051.688	4294196.684	7655	09-Jan-14	ALEX192014B.SSF	421048.325	53026
722051.213	4294197.685	7253	09-Jan-14	ALEX192014B.SSF	421049.345	53027
722050.81	4294198.741	7273	09-Jan-14	ALEX192014B.SSF	421050.29	53028
722050.1	4294199.583	6648	09-Jan-14	ALEX192014B.SSF	421051.3459	53029
722049.368	4294199.983	7152	09-Jan-14	ALEX192014B.SSF	421052.2671	53030

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722048.269	4294199.747	7572	09-Jan-14	ALEX192014B.SSF	421054.3059	53032
722048.467	4294199.31	7593	09-Jan-14	ALEX192014B.SSF	421055.2671	53033
722049.102	4294198.889	6998	09-Jan-14	ALEX192014B.SSF	421056.116	53034
722049.969	4294197.899	5889	09-Jan-14	ALEX192014B.SSF	421057.28	53035
722050.599	4294196.968	5915	09-Jan-14	ALEX192014B.SSF	421058.2581	53036
722051.436	4294196.193	6364	09-Jan-14	ALEX192014B.SSF	421059.3059	53037
722052.192	4294195.537	5596	09-Jan-14	ALEX192014B.SSF	421060.2881	53038
722052.729	4294194.651	5818	09-Jan-14	ALEX192014B.SSF	421061.2571	53039
722053.192	4294193.589	5995	09-Jan-14	ALEX192014B.SSF	421062.2261	53040
722053.98	4294192.744	6913	09-Jan-14	ALEX192014B.SSF	421063.2949	53041
722054.883	4294192.069	7008	09-Jan-14	ALEX192014B.SSF	421064.229	53042
722055.734	4294190.929	6462	09-Jan-14	ALEX192014B.SSF	421065.283	53043
722056.165	4294189.847	6655	09-Jan-14	ALEX192014B.SSF	421066.106	53044
722056.799	4294188.739	6854	09-Jan-14	ALEX192014B.SSF	421067.3459	53045
722057.458	4294188.16	7353	09-Jan-14	ALEX192014B.SSF	421068.2209	53046
722058.223	4294187.314	6908	09-Jan-14	ALEX192014B.SSF	421069.2351	53047
722058.707	4294186.175	6677	09-Jan-14	ALEX192014B.SSF	421070.2739	53048
722059.244	4294185.096	7189	09-Jan-14	ALEX192014B.SSF	421071.333	53049
722060.065	4294184.35	7797	09-Jan-14	ALEX192014B.SSF	421072.2859	53050
722060.767	4294183.564	6299	09-Jan-14	ALEX192014B.SSF	421073.291	53051
722061.349	4294182.542	6825	09-Jan-14	ALEX192014B.SSF	421074.2759	53052
722061.906	4294181.557	6566	09-Jan-14	ALEX192014B.SSF	421075.2571	53053
722062.563	4294180.821	7521	09-Jan-14	ALEX192014B.SSF	421076.2061	53054
722063.231	4294179.783	7760	09-Jan-14	ALEX192014B.SSF	421077.3521	53055
722063.614	4294178.913	8150	09-Jan-14	ALEX192014B.SSF	421078.2949	53056
722064.342	4294178.129	6297	09-Jan-14	ALEX192014B.SSF	421079.2939	53057
722065.066	4294177.566	7184	09-Jan-14	ALEX192014B.SSF	421080.1379	53058
722065.716	4294176.333	7736	09-Jan-14	ALEX192014B.SSF	421081.342	53059
722066.063	4294175.354	7334	09-Jan-14	ALEX192014B.SSF	421082.22	53060
722066.827	4294174.523	6663	09-Jan-14	ALEX192014B.SSF	421083.248	53061
722067.722	4294173.83	6915	09-Jan-14	ALEX192014B.SSF	421084.1509	53062
722068.539	4294172.832	7638	09-Jan-14	ALEX192014B.SSF	421085.2739	53063
722068.86	4294171.864	7789	09-Jan-14	ALEX192014B.SSF	421086.218	53064
722069.152	4294170.89	8427	09-Jan-14	ALEX192014B.SSF	421087.2859	53065
722069.859	4294170.261	7747	09-Jan-14	ALEX192014B.SSF	421088.239	53066
722070.46	4294169.727	7516	09-Jan-14	ALEX192014B.SSF	421089.158	53067
722070.685	4294169.031	7909	09-Jan-14	ALEX192014B.SSF	421090.1709	53068
722070.688	4294168.182	7527	09-Jan-14	ALEX192014B.SSF	421091.2781	53069
722070.734	4294167.38	7402	09-Jan-14	ALEX192014B.SSF	421092.2539	53070
722070.419	4294166.41	7460	09-Jan-14	ALEX192014B.SSF	421093.3291	53071
722069.811	4294166.132	7295	09-Jan-14	ALEX192014B.SSF	421094.2881	53072
722069.197	4294166.701	7313	09-Jan-14	ALEX192014B.SSF	421095.2849	53073
722068.55	4294167.504	7618	09-Jan-14	ALEX192014B.SSF	421096.271	53074
722067.868	4294168.198	7694	09-Jan-14	ALEX192014B.SSF	421097.28	53075
722067.401	4294168.864	6963	09-Jan-14	ALEX192014B.SSF	421098.1489	53076
722066.939	4294170.279	6960	09-Jan-14	ALEX192014B.SSF	421099.292	53077

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722065.642	4294172.451	7500	09-Jan-14	ALEX192014B.SSF	421101.2991	53079
722064.958	4294173.138	6975	09-Jan-14	ALEX192014B.SSF	421102.2339	53080
722064.429	4294173.904	7263	09-Jan-14	ALEX192014B.SSF	421103.261	53081
722063.997	4294174.729	7066	09-Jan-14	ALEX192014B.SSF	421104.2229	53082
722063.183	4294175.65	7556	09-Jan-14	ALEX192014B.SSF	421105.2671	53083
722062.373	4294176.487	7169	09-Jan-14	ALEX192014B.SSF	421106.228	53084
722061.698	4294177.61	7222	09-Jan-14	ALEX192014B.SSF	421107.321	53085
722061.14	4294178.713	6995	09-Jan-14	ALEX192014B.SSF	421108.2639	53086
722060.284	4294179.725	7118	09-Jan-14	ALEX192014B.SSF	421109.2939	53087
722059.479	4294180.408	7839	09-Jan-14	ALEX192014B.SSF	421110.2839	53088
722058.995	4294181.071	7060	09-Jan-14	ALEX192014B.SSF	421111.312	53089
722058.701	4294181.958	6715	09-Jan-14	ALEX192014B.SSF	421112.24	53090
722058.003	4294183.093	6988	09-Jan-14	ALEX192014B.SSF	421113.3279	53091
722057.201	4294184.04	7297	09-Jan-14	ALEX192014B.SSF	421114.2739	53092
722056.62	4294184.983	7614	09-Jan-14	ALEX192014B.SSF	421115.26	53093
722056.159	4294185.972	7543	09-Jan-14	ALEX192014B.SSF	421116.2771	53094
722055.453	4294186.794	6866	09-Jan-14	ALEX192014B.SSF	421117.219	53095
722054.49	4294187.488	6576	09-Jan-14	ALEX192014B.SSF	421118.1321	53096
722053.581	4294188.283	6924	09-Jan-14	ALEX192014B.SSF	421119.2849	53097
722053.144	4294189.14	7131	09-Jan-14	ALEX192014B.SSF	421120.2749	53098
722052.314	4294190.089	6282	09-Jan-14	ALEX192014B.SSF	421121.353	53099
722051.537	4294190.861	6790	09-Jan-14	ALEX192014B.SSF	421122.303	53100
722050.977	4294191.871	6557	09-Jan-14	ALEX192014B.SSF	421123.3159	53101
722050.487	4294192.881	7159	09-Jan-14	ALEX192014B.SSF	421124.334	53102
722049.758	4294193.701	6259	09-Jan-14	ALEX192014B.SSF	421125.345	53103
722049.045	4294194.397	7175	09-Jan-14	ALEX192014B.SSF	421126.3101	53104
722048.527	4294195.357	7553	09-Jan-14	ALEX192014B.SSF	421127.323	53105
722048.035	4294196.373	6088	09-Jan-14	ALEX192014B.SSF	421128.293	53106
722047.338	4294197.095	6033	09-Jan-14	ALEX192014B.SSF	421129.2471	53107
722046.747	4294197.569	6987	09-Jan-14	ALEX192014B.SSF	421130.2681	53108
722046.667	4294197.915	6667	09-Jan-14	ALEX192014B.SSF	421131.2949	53109
722046.772	4294197.854	6286	09-Jan-14	ALEX192014B.SSF	421132.2319	53110
722046.835	4294197.467	6311	09-Jan-14	ALEX192014B.SSF	421133.3291	53111
722046.705	4294197.237	6798	09-Jan-14	ALEX192014B.SSF	421134.2661	53112
722046.462	4294196.976	6239	09-Jan-14	ALEX192014B.SSF	421135.269	53113
722046.419	4294196.883	6930	09-Jan-14	ALEX192014B.SSF	421136.2561	53114
722046.457	4294196.951	5782	09-Jan-14	ALEX192014B.SSF	421137.1741	53115
722046.484	4294197.103	6515	09-Jan-14	ALEX192014B.SSF	421138.2471	53116
722046.331	4294197.269	6308	09-Jan-14	ALEX192014B.SSF	421139.2471	53117
722046.188	4294197.202	6274	09-Jan-14	ALEX192014B.SSF	421140.0911	53118
722046.049	4294196.954	7354	09-Jan-14	ALEX192014B.SSF	421141.269	53119
722045.884	4294196.904	6698	09-Jan-14	ALEX192014B.SSF	421142.1689	53120
722046.199	4294196.741	6534	09-Jan-14	ALEX192014B.SSF	421143.354	53121
722046.808	4294196.518	6043	09-Jan-14	ALEX192014B.SSF	421144.197	53122
722047.511	4294195.986	6084	09-Jan-14	ALEX192014B.SSF	421145.2119	53123
722048.161	4294195.195	5731	09-Jan-14	ALEX192014B.SSF	421146.2749	53124

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722049.014	4294194.534	5894	09-Jan-14	ALEX192014B.SSF	421147.2759	53125
722049.87	4294193.799	6502	09-Jan-14	ALEX192014B.SSF	421148.356	53126
722050.49	4294192.964	6875	09-Jan-14	ALEX192014B.SSF	421149.3169	53127
722051.16	4294192.088	6999	09-Jan-14	ALEX192014B.SSF	421150.3149	53128
722051.911	4294191.366	6969	09-Jan-14	ALEX192014B.SSF	421151.2429	53129
722052.575	4294190.365	6662	09-Jan-14	ALEX192014B.SSF	421152.283	53130
722052.976	4294189.415	7005	09-Jan-14	ALEX192014B.SSF	421153.259	53131
722053.706	4294188.593	7361	09-Jan-14	ALEX192014B.SSF	421154.292	53132
722054.523	4294187.705	7330	09-Jan-14	ALEX192014B.SSF	421155.343	53133
722054.994	4294186.953	7412	09-Jan-14	ALEX192014B.SSF	421156.1101	53134
722055.614	4294185.87	6563	09-Jan-14	ALEX192014B.SSF	421157.2649	53135
722056.329	4294185.102	6560	09-Jan-14	ALEX192014B.SSF	421158.177	53136
722057.078	4294184.167	6770	09-Jan-14	ALEX192014B.SSF	421159.2849	53137
722057.537	4294183.383	7572	09-Jan-14	ALEX192014B.SSF	421160.123	53138
722058.077	4294182.231	6543	09-Jan-14	ALEX192014B.SSF	421161.28	53139
722058.663	4294181.501	6915	09-Jan-14	ALEX192014B.SSF	421162.1421	53140
722059.382	4294180.808	7218	09-Jan-14	ALEX192014B.SSF	421163.27	53141
722059.851	4294180.167	6364	09-Jan-14	ALEX192014B.SSF	421164.137	53142
722060.37	4294178.91	6661	09-Jan-14	ALEX192014B.SSF	421165.251	53143
722060.986	4294177.965	7005	09-Jan-14	ALEX192014B.SSF	421166.166	53144
722062.016	4294177.057	8201	09-Jan-14	ALEX192014B.SSF	421167.3201	53145
722062.558	4294176.362	6790	09-Jan-14	ALEX192014B.SSF	421168.166	53146
722063.061	4294175.175	7397	09-Jan-14	ALEX192014B.SSF	421169.355	53147
722063.528	4294174.331	7489	09-Jan-14	ALEX192014B.SSF	421170.1609	53148
722064.362	4294173.258	6102	09-Jan-14	ALEX192014B.SSF	421171.3191	53149
722064.847	4294172.409	6428	09-Jan-14	ALEX192014B.SSF	421172.241	53150
722065.289	4294171.276	7067	09-Jan-14	ALEX192014B.SSF	421173.27	53151
722065.722	4294170.359	7526	09-Jan-14	ALEX192014B.SSF	421174.229	53152
722066.544	4294169.612	8061	09-Jan-14	ALEX192014B.SSF	421175.3301	53153
722067.068	4294168.988	8075	09-Jan-14	ALEX192014B.SSF	421176.187	53154
722067.523	4294168.081	7178	09-Jan-14	ALEX192014B.SSF	421177.3169	53155
722068.042	4294167.351	6834	09-Jan-14	ALEX192014B.SSF	421178.2419	53156
722068.869	4294166.684	7468	09-Jan-14	ALEX192014B.SSF	421179.209	53157
722069.311	4294166.093	7447	09-Jan-14	ALEX192014B.SSF	421180.23	53158
722069.075	4294165.736	7591	09-Jan-14	ALEX192014B.SSF	421181.2451	53159
722068.691	4294165.211	7387	09-Jan-14	ALEX192014B.SSF	421182.228	53160
722068.248	4294164.353	7877	09-Jan-14	ALEX192014B.SSF	421183.2549	53161
722067.689	4294163.82	7519	09-Jan-14	ALEX192014B.SSF	421184.125	53162
722067.107	4294164.19	7369	09-Jan-14	ALEX192014B.SSF	421185.2629	53163
722066.995	4294164.886	6942	09-Jan-14	ALEX192014B.SSF	421186.1389	53164
722066.774	4294165.904	6745	09-Jan-14	ALEX192014B.SSF	421187.2759	53165
722066.17	4294166.864	7626	09-Jan-14	ALEX192014B.SSF	421188.2759	53166
722065.404	4294167.665	8146	09-Jan-14	ALEX192014B.SSF	421189.2759	53167
722064.809	4294168.104	7826	09-Jan-14	ALEX192014B.SSF	421190.085	53168
722064.164	4294168.924	7206	09-Jan-14	ALEX192014B.SSF	421191.2939	53169
722063.743	4294170.055	7681	09-Jan-14	ALEX192014B.SSF	421192.2271	53170
722063.235	4294171.708	7560	09-Jan-14	ALEX192014B.SSF	421193.2959	53171

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722061.711	4294173.753	7380	09-Jan-14	ALEX192014B.SSF	421195.2549	53173
722060.863	4294174.463	7665	09-Jan-14	ALEX192014B.SSF	421196.282	53174
722060.357	4294175.433	7136	09-Jan-14	ALEX192014B.SSF	421197.29	53175
722059.901	4294176.328	6764	09-Jan-14	ALEX192014B.SSF	421198.0901	53176
722058.9	4294177.428	7271	09-Jan-14	ALEX192014B.SSF	421199.313	53177
722058.334	4294177.872	7517	09-Jan-14	ALEX192014B.SSF	421200.051	53178
722057.834	4294178.985	7399	09-Jan-14	ALEX192014B.SSF	421201.24	53179
722057.639	4294179.959	6819	09-Jan-14	ALEX192014B.SSF	421202.0229	53180
722056.772	4294181.047	8127	09-Jan-14	ALEX192014B.SSF	421203.1931	53181
722056.006	4294181.69	7462	09-Jan-14	ALEX192014B.SSF	421204.2461	53182
722055.715	4294182.56	8045	09-Jan-14	ALEX192014B.SSF	421205.303	53183
722055.425	4294183.511	7681	09-Jan-14	ALEX192014B.SSF	421206.2661	53184
722054.652	4294184.449	9540	09-Jan-14	ALEX192014B.SSF	421207.324	53185
722053.844	4294185.226	7455	09-Jan-14	ALEX192014B.SSF	421208.2739	53186
722053.094	4294186.136	7233	09-Jan-14	ALEX192014B.SSF	421209.3369	53187
722052.469	4294187.011	7088	09-Jan-14	ALEX192014B.SSF	421210.3	53188
722051.543	4294187.811	6932	09-Jan-14	ALEX192014B.SSF	421211.3411	53189
722050.77	4294188.353	7283	09-Jan-14	ALEX192014B.SSF	421212.1289	53190
722050.062	4294189.256	6290	09-Jan-14	ALEX192014B.SSF	421213.2991	53191
722049.848	4294189.933	6162	09-Jan-14	ALEX192014B.SSF	421214.1189	53192
722049.201	4294190.835	6460	09-Jan-14	ALEX192014B.SSF	421215.282	53193
722048.417	4294191.553	6835	09-Jan-14	ALEX192014B.SSF	421216.2151	53194
722047.895	4294192.359	6598	09-Jan-14	ALEX192014B.SSF	421217.2019	53195
722047.628	4294193.48	5939	09-Jan-14	ALEX192014B.SSF	421218.281	53196
722047.058	4294194.516	6307	09-Jan-14	ALEX192014B.SSF	421219.2991	53197
722046.422	4294195.133	6706	09-Jan-14	ALEX192014B.SSF	421220.071	53198
722045.834	4294195.737	6776	09-Jan-14	ALEX192014B.SSF	421221.2019	53199
722045.799	4294196.005	7514	09-Jan-14	ALEX192014B.SSF	421222.1111	53200
722045.427	4294195.931	7158	09-Jan-14	ALEX192014B.SSF	421223.252	53201
722044.697	4294195.753	6589	09-Jan-14	ALEX192014B.SSF	421224.054	53202
722044.329	4294195.28	6057	09-Jan-14	ALEX192014B.SSF	421225.2739	53203
722044.711	4294194.628	6891	09-Jan-14	ALEX192014B.SSF	421226.2629	53204
722045.226	4294193.991	6192	09-Jan-14	ALEX192014B.SSF	421227.26	53205
722045.863	4294193.555	5382	09-Jan-14	ALEX192014B.SSF	421228.238	53206
722046.407	4294193.169	5750	09-Jan-14	ALEX192014B.SSF	421229.2119	53207
722046.866	4294192.472	6386	09-Jan-14	ALEX192014B.SSF	421230.1919	53208
722047.706	4294191.483	6036	09-Jan-14	ALEX192014B.SSF	421231.281	53209
722048.425	4294190.887	5638	09-Jan-14	ALEX192014B.SSF	421232.1431	53210
722049.068	4294189.911	5946	09-Jan-14	ALEX192014B.SSF	421233.3579	53211
722049.396	4294189.244	6460	09-Jan-14	ALEX192014B.SSF	421234.2871	53212
722049.847	4294188.714	7195	09-Jan-14	ALEX192014B.SSF	421235.2839	53213
722050.424	4294187.941	7168	09-Jan-14	ALEX192014B.SSF	421236.293	53214
722051.068	4294186.864	6442	09-Jan-14	ALEX192014B.SSF	421237.259	53215
722051.617	4294185.997	5900	09-Jan-14	ALEX192014B.SSF	421238.0891	53216
722052.706	4294185.197	6138	09-Jan-14	ALEX192014B.SSF	421239.2791	53217
722053.264	4294184.649	6514	09-Jan-14	ALEX192014B.SSF	421240.0549	53218

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722053.897	4294183.535	7088	09-Jan-14	ALEX192014B.SSF	421241.2439	53219
722054.416	4294182.724	7022	09-Jan-14	ALEX192014B.SSF	421242.0979	53220
722055.52	4294181.807	7365	09-Jan-14	ALEX192014B.SSF	421243.259	53221
722056.269	4294181.133	5891	09-Jan-14	ALEX192014B.SSF	421244.1941	53222
722056.769	4294180.147	6934	09-Jan-14	ALEX192014B.SSF	421245.321	53223
722057.243	4294179.375	7133	09-Jan-14	ALEX192014B.SSF	421246.2781	53224
722058.075	4294178.672	6733	09-Jan-14	ALEX192014B.SSF	421247.321	53225
722058.66	4294177.982	7743	09-Jan-14	ALEX192014B.SSF	421248.1699	53226
722059.245	4294176.887	7515	09-Jan-14	ALEX192014B.SSF	421249.262	53227
722059.801	4294176.083	7458	09-Jan-14	ALEX192014B.SSF	421250.2549	53228
722060.266	4294175.563	7924	09-Jan-14	ALEX192014B.SSF	421251.2971	53229
722060.538	4294174.759	6451	09-Jan-14	ALEX192014B.SSF	421252.2891	53230
722061.034	4294173.835	6712	09-Jan-14	ALEX192014B.SSF	421253.2839	53231
722061.878	4294173.074	6808	09-Jan-14	ALEX192014B.SSF	421254.2971	53232
722062.429	4294172.322	6802	09-Jan-14	ALEX192014B.SSF	421255.2581	53233
722062.705	4294171.528	7280	09-Jan-14	ALEX192014B.SSF	421256.0969	53234
722063.08	4294170.35	6890	09-Jan-14	ALEX192014B.SSF	421257.2361	53235
722063.773	4294169.256	6582	09-Jan-14	ALEX192014B.SSF	421258.2549	53236
722064.336	4294168.296	7825	09-Jan-14	ALEX192014B.SSF	421259.136	53237
722064.785	4294167.056	7956	09-Jan-14	ALEX192014B.SSF	421260.27	53238
722065.363	4294166.013	7839	09-Jan-14	ALEX192014B.SSF	421261.3259	53239
722065.984	4294165.399	7119	09-Jan-14	ALEX192014B.SSF	421262.1621	53240
722066.522	4294164.553	7690	09-Jan-14	ALEX192014B.SSF	421263.312	53241
722066.491	4294163.653	7082	09-Jan-14	ALEX192014B.SSF	421264.282	53242
722066.176	4294162.753	7470	09-Jan-14	ALEX192014B.SSF	421265.165	53243
722065.605	4294161.579	8557	09-Jan-14	ALEX192014B.SSF	421266.281	53244
722064.888	4294161.016	8289	09-Jan-14	ALEX192014B.SSF	421267.2859	53245
722064.307	4294161.3	9062	09-Jan-14	ALEX192014B.SSF	421268.125	53246
722063.756	4294162.619	7935	09-Jan-14	ALEX192014B.SSF	421269.3101	53247
722063.156	4294163.683	7443	09-Jan-14	ALEX192014B.SSF	421270.2839	53248
722062.362	4294164.635	7561	09-Jan-14	ALEX192014B.SSF	421271.3	53249
722061.916	4294165.374	8190	09-Jan-14	ALEX192014B.SSF	421272.113	53250
722061.52	4294166.694	8257	09-Jan-14	ALEX192014B.SSF	421273.2729	53251
722060.921	4294167.735	7974	09-Jan-14	ALEX192014B.SSF	421274.0779	53252
722059.469	4294169.051	8113	09-Jan-14	ALEX192014B.SSF	421275.2549	53253
722058.58	4294169.851	8328	09-Jan-14	ALEX192014B.SSF	421276.1389	53254
722057.972	4294171.023	6612	09-Jan-14	ALEX192014B.SSF	421277.2151	53255
722056.933	4294173.231	6300	09-Jan-14	ALEX192014B.SSF	421279.2561	53257
722056.292	4294174.03	7515	09-Jan-14	ALEX192014B.SSF	421280.2251	53258
722055.799	4294174.944	7608	09-Jan-14	ALEX192014B.SSF	421281.1599	53259
722055.401	4294176.128	7212	09-Jan-14	ALEX192014B.SSF	421282.1399	53260
722054.648	4294177.241	6693	09-Jan-14	ALEX192014B.SSF	421283.2129	53261
722053.879	4294178.059	6593	09-Jan-14	ALEX192014B.SSF	421284.1899	53262
722053.277	4294179.111	6388	09-Jan-14	ALEX192014B.SSF	421285.26	53263
722052.934	4294180.187	7267	09-Jan-14	ALEX192014B.SSF	421286.1221	53264
722052.156	4294181.39	6916	09-Jan-14	ALEX192014B.SSF	421287.261	53265
722051.388	4294182.059	6559	09-Jan-14	ALEX192014B.SSF	421288.1021	53266

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722050.608	4294182.912	6619	09-Jan-14	ALEX192014B.SSF	421289.2629	53267
722050.205	4294183.86	5887	09-Jan-14	ALEX192014B.SSF	421290.1951	53268
722049.6	4294184.821	5912	09-Jan-14	ALEX192014B.SSF	421291.283	53269
722049.21	4294185.38	6123	09-Jan-14	ALEX192014B.SSF	421292.1431	53270
722048.75	4294186.387	6016	09-Jan-14	ALEX192014B.SSF	421293.2991	53271
722048.319	4294187.32	5916	09-Jan-14	ALEX192014B.SSF	421294.188	53272
722047.535	4294188.297	5990	09-Jan-14	ALEX192014B.SSF	421295.2881	53273
722047.007	4294188.819	5657	09-Jan-14	ALEX192014B.SSF	421296.075	53274
722046.746	4294189.767	6126	09-Jan-14	ALEX192014B.SSF	421297.231	53275
722046.525	4294190.547	5131	09-Jan-14	ALEX192014B.SSF	421298.062	53276
722045.747	4294191.429	5211	09-Jan-14	ALEX192014B.SSF	421299.2681	53277
722045.106	4294192.054	5474	09-Jan-14	ALEX192014B.SSF	421300.0879	53278
722044.444	4294193.29	6086	09-Jan-14	ALEX192014B.SSF	421301.2419	53279
722044.023	4294194.026	6711	09-Jan-14	ALEX192014B.SSF	421302.0471	53280
722043.286	4294195.127	5668	09-Jan-14	ALEX192014B.SSF	421303.2549	53281
722042.927	4294196.064	5340	09-Jan-14	ALEX192014B.SSF	421304.1289	53282
722043.102	4294196.799	5246	09-Jan-14	ALEX192014B.SSF	421305.2739	53283
722042.929	4294196.939	5285	09-Jan-14	ALEX192014B.SSF	421306.094	53284
722042.158	4294197.502	6215	09-Jan-14	ALEX192014B.SSF	421307.116	53285
722041.834	4294198.373	7374	09-Jan-14	ALEX192014B.SSF	421308.0239	53286
722041.808	4294197.788	6733	09-Jan-14	ALEX192014B.SSF	421309.1819	53287
722041.674	4294196.815	7113	09-Jan-14	ALEX192014B.SSF	421310.0581	53288
722041.532	4294195.54	6938	09-Jan-14	ALEX192014B.SSF	421311.3149	53289
722041.518	4294194.926	7044	09-Jan-14	ALEX192014B.SSF	421312.0801	53290
722041.782	4294194.511	6321	09-Jan-14	ALEX192014B.SSF	421313.2629	53291
722042.133	4294194.188	5460	09-Jan-14	ALEX192014B.SSF	421314.0371	53292
722043.298	4294193.309	5598	09-Jan-14	ALEX192014B.SSF	421315.2891	53293
722043.971	4294192.791	5939	09-Jan-14	ALEX192014B.SSF	421316.1069	53294
722044.597	4294191.935	6318	09-Jan-14	ALEX192014B.SSF	421317.355	53295
722044.989	4294191.413	7729	09-Jan-14	ALEX192014B.SSF	421318.041	53296
722045.803	4294190.63	7152	09-Jan-14	ALEX192014B.SSF	421319.3	53297
722046.223	4294189.905	6948	09-Jan-14	ALEX192014B.SSF	421320.1479	53298
722046.715	4294188.782	6987	09-Jan-14	ALEX192014B.SSF	421321.2161	53299
722047.453	4294187.863	5826	09-Jan-14	ALEX192014B.SSF	421322.1831	53300
722048.24	4294187.006	5812	09-Jan-14	ALEX192014B.SSF	421323.314	53301
722048.575	4294186.379	6009	09-Jan-14	ALEX192014B.SSF	421324.0349	53302
722049.205	4294185.13	6339	09-Jan-14	ALEX192014B.SSF	421325.302	53303
722049.816	4294184.505	6307	09-Jan-14	ALEX192014B.SSF	421326.0259	53304
722050.507	4294183.474	5896	09-Jan-14	ALEX192014B.SSF	421327.27	53305
722050.796	4294182.617	6126	09-Jan-14	ALEX192014B.SSF	421328.156	53306
722051.336	4294181.628	5522	09-Jan-14	ALEX192014B.SSF	421329.23	53307
722051.915	4294181.095	6511	09-Jan-14	ALEX192014B.SSF	421330.064	53308
722052.655	4294179.909	7117	09-Jan-14	ALEX192014B.SSF	421331.158	53309
722053.25	4294178.479	7539	09-Jan-14	ALEX192014B.SSF	421332.2351	53310
722054.075	4294177.48	6745	09-Jan-14	ALEX192014B.SSF	421333.2759	53311
722054.7	4294176.928	6816	09-Jan-14	ALEX192014B.SSF	421334.0161	53312
722055.3	4294175.651	6924	09-Jan-14	ALEX192014B.SSF	421335.2749	53313

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722055.672	4294174.674	6861	09-Jan-14	ALEX192014B.SSF	421336.1541	53314
722056.469	4294173.698	6395	09-Jan-14	ALEX192014B.SSF	421337.113	53315
722057.351	4294172.884	7238	09-Jan-14	ALEX192014B.SSF	421338.074	53316
722058.028	4294171.8	6579	09-Jan-14	ALEX192014B.SSF	421339.1609	53317
722058.338	4294170.841	6205	09-Jan-14	ALEX192014B.SSF	421340.0381	53318
722059.025	4294169.85	7161	09-Jan-14	ALEX192014B.SSF	421341.219	53319
722059.445	4294169.464	6800	09-Jan-14	ALEX192014B.SSF	421342.054	53320
722060.018	4294168.479	7190	09-Jan-14	ALEX192014B.SSF	421343.2949	53321
722060.304	4294167.585	6837	09-Jan-14	ALEX192014B.SSF	421344.0569	53322
722061.186	4294166.396	6839	09-Jan-14	ALEX192014B.SSF	421345.231	53323
722061.842	4294165.796	6270	09-Jan-14	ALEX192014B.SSF	421346.0171	53324
722062.509	4294164.574	5797	09-Jan-14	ALEX192014B.SSF	421347.26	53325
722062.845	4294163.727	5953	09-Jan-14	ALEX192014B.SSF	421348.0891	53326
722063.504	4294163.197	5502	09-Jan-14	ALEX192014B.SSF	421349.197	53327
722063.901	4294162.839	5742	09-Jan-14	ALEX192014B.SSF	421350.041	53328
722064.035	4294162.27	7298	09-Jan-14	ALEX192014B.SSF	421351.22	53329
722064.02	4294161.955	6684	09-Jan-14	ALEX192014B.SSF	421352.063	53330
722064.065	4294161.732	7191	09-Jan-14	ALEX192014B.SSF	421353.2151	53331
722064.067	4294161.657	6567	09-Jan-14	ALEX192014B.SSF	421354.0471	53332
722063.947	4294161.566	6532	09-Jan-14	ALEX192014B.SSF	421355.2371	53333
722063.683	4294161.48	7093	09-Jan-14	ALEX192014B.SSF	421356.1531	53334
722062.973	4294161.92	7833	09-Jan-14	ALEX192014B.SSF	421357.251	53335
722062.301	4294162.715	6998	09-Jan-14	ALEX192014B.SSF	421358.0959	53336
722061.204	4294163.711	7089	09-Jan-14	ALEX192014B.SSF	421359.291	53337
722060.637	4294164.18	6932	09-Jan-14	ALEX192014B.SSF	421360.054	53338
722060.266	4294165.138	7043	09-Jan-14	ALEX192014B.SSF	421361.231	53339
722059.892	4294165.948	7280	09-Jan-14	ALEX192014B.SSF	421362.147	53340
722059.335	4294166.554	6650	09-Jan-14	ALEX192014B.SSF	421363.1279	53341
722058.804	4294167.149	6192	09-Jan-14	ALEX192014B.SSF	421364.0259	53342
722058.459	4294168.058	6738	09-Jan-14	ALEX192014B.SSF	421365.2661	53343
722058.019	4294168.595	6424	09-Jan-14	ALEX192014B.SSF	421366.0491	53344
722057.017	4294169.375	7186	09-Jan-14	ALEX192014B.SSF	421367.2749	53345
722056.599	4294170.068	7676	09-Jan-14	ALEX192014B.SSF	421368.144	53346
722056.194	4294170.707	7559	09-Jan-14	ALEX192014B.SSF	421369.166	53347
722055.842	4294171.11	6750	09-Jan-14	ALEX192014B.SSF	421370.0471	53348
722055.671	4294171.844	6667	09-Jan-14	ALEX192014B.SSF	421371.251	53349
722055.449	4294172.441	6616	09-Jan-14	ALEX192014B.SSF	421372.0801	53350
722054.764	4294173.156	6454	09-Jan-14	ALEX192014B.SSF	421373.083	53351
722054.11	4294174.041	7013	09-Jan-14	ALEX192014B.SSF	421374.054	53352
722053.655	4294175.539	6193	09-Jan-14	ALEX192014B.SSF	421375.2671	53353
722053.347	4294176.567	6207	09-Jan-14	ALEX192014B.SSF	421376.0979	53354
722052.404	4294177.882	7222	09-Jan-14	ALEX192014B.SSF	421377.28	53355
722051.6	4294178.63	6815	09-Jan-14	ALEX192014B.SSF	421378.1431	53356
722050.788	4294179.599	7193	09-Jan-14	ALEX192014B.SSF	421379.2991	53357
722050.457	4294180.461	6718	09-Jan-14	ALEX192014B.SSF	421380.1721	53358
722050.121	4294181.357	6359	09-Jan-14	ALEX192014B.SSF	421381.208	53359
722049.371	4294182.035	6060	09-Jan-14	ALEX192014B.SSF	421382.2141	53360

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722048.555	4294182.711	6105	09-Jan-14	ALEX192014B.SSF	421383.1909	53361
722048.099	4294183.456	6626	09-Jan-14	ALEX192014B.SSF	421384.0581	53362
722047.119	4294184.59	6336	09-Jan-14	ALEX192014B.SSF	421385.2781	53363
722046.386	4294185.237	5814	09-Jan-14	ALEX192014B.SSF	421385.9951	53364
722045.384	4294186.404	6120	09-Jan-14	ALEX192014B.SSF	421387.249	53365
722044.92	4294187.429	5940	09-Jan-14	ALEX192014B.SSF	421388.134	53366
722044.147	4294188.514	5718	09-Jan-14	ALEX192014B.SSF	421389.2429	53367
722043.445	4294188.999	5774	09-Jan-14	ALEX192014B.SSF	421390.0659	53368
722042.919	4294189.571	6440	09-Jan-14	ALEX192014B.SSF	421391.228	53369
722042.813	4294190.075	5970	09-Jan-14	ALEX192014B.SSF	421392.032	53370
722041.996	4294190.803	6298	09-Jan-14	ALEX192014B.SSF	421393.2119	53371
722041.274	4294191.31	6464	09-Jan-14	ALEX192014B.SSF	421394.0259	53372
722040.775	4294192.284	6086	09-Jan-14	ALEX192014B.SSF	421395.0681	53373
722040.409	4294192.973	6231	09-Jan-14	ALEX192014B.SSF	421396.051	53374
722040.116	4294193.01	6657	09-Jan-14	ALEX192014B.SSF	421397.2229	53375
722039.731	4294192.745	5556	09-Jan-14	ALEX192014B.SSF	421398.1919	53376
722039.544	4294192.25	6463	09-Jan-14	ALEX192014B.SSF	421399.2581	53377
722039.857	4294191.774	6716	09-Jan-14	ALEX192014B.SSF	421400.092	53378
722040.406	4294190.797	7109	09-Jan-14	ALEX192014B.SSF	421401.2649	53379
722040.725	4294190.183	6127	09-Jan-14	ALEX192014B.SSF	421402.0129	53380
722041.742	4294189.369	5551	09-Jan-14	ALEX192014B.SSF	421403.3	53381
722042.382	4294188.787	5815	09-Jan-14	ALEX192014B.SSF	421404.1079	53382
722043.156	4294187.777	7160	09-Jan-14	ALEX192014B.SSF	421405.1721	53383
722043.833	4294186.903	5960	09-Jan-14	ALEX192014B.SSF	421406.042	53384
722044.666	4294186.143	6945	09-Jan-14	ALEX192014B.SSF	421407.168	53385
722045.21	4294185.472	6266	09-Jan-14	ALEX192014B.SSF	421408.1951	53386
722045.612	4294184.613	6276	09-Jan-14	ALEX192014B.SSF	421409.104	53387
722046.348	4294183.592	5859	09-Jan-14	ALEX192014B.SSF	421410.0701	53388
722047.492	4294182.494	6160	09-Jan-14	ALEX192014B.SSF	421411.344	53389
722048.08	4294181.821	5745	09-Jan-14	ALEX192014B.SSF	421412.082	53390
722048.702	4294180.866	6309	09-Jan-14	ALEX192014B.SSF	421413.3059	53391
722049.163	4294180.468	6814	09-Jan-14	ALEX192014B.SSF	421414.1589	53392
722049.65	4294179.827	6086	09-Jan-14	ALEX192014B.SSF	421415.304	53393
722049.919	4294179.186	6771	09-Jan-14	ALEX192014B.SSF	421416.05	53394
722050.708	4294178.256	7213	09-Jan-14	ALEX192014B.SSF	421417.1089	53395
722051.842	4294177.617	7233	09-Jan-14	ALEX192014B.SSF	421418.1499	53396
722052.482	4294176.897	6998	09-Jan-14	ALEX192014B.SSF	421419.1211	53397
722052.635	4294175.921	5709	09-Jan-14	ALEX192014B.SSF	421420.0291	53398
722052.852	4294174.665	6654	09-Jan-14	ALEX192014B.SSF	421421.334	53399
722053.258	4294174.108	7213	09-Jan-14	ALEX192014B.SSF	421422.0569	53400
722054.154	4294173.527	8433	09-Jan-14	ALEX192014B.SSF	421423.197	53401
722054.8	4294173.04	7748	09-Jan-14	ALEX192014B.SSF	421424.0779	53402
722055.277	4294172.04	7337	09-Jan-14	ALEX192014B.SSF	421425.127	53403
722055.845	4294171.073	6214	09-Jan-14	ALEX192014B.SSF	421426.094	53404
722056.486	4294170.331	6983	09-Jan-14	ALEX192014B.SSF	421427.1721	53405
722056.653	4294169.687	5136	09-Jan-14	ALEX192014B.SSF	421428.052	53406
722056.918	4294168.764	6129	09-Jan-14	ALEX192014B.SSF	421429.2129	53407

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
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722058.108	4294167.346	6458	09-Jan-14	ALEX192014B.SSF	421431.116	53409
722058.758	4294166.309	5571	09-Jan-14	ALEX192014B.SSF	421432.1221	53410
722059.656	4294165.098	5826	09-Jan-14	ALEX192014B.SSF	421433.262	53411
722060.341	4294164.357	5950	09-Jan-14	ALEX192014B.SSF	421434.0979	53412
722060.925	4294163.375	6279	09-Jan-14	ALEX192014B.SSF	421435.197	53413
722061.506	4294162.553	7059	09-Jan-14	ALEX192014B.SSF	421436.1211	53414
722062.073	4294161.824	7135	09-Jan-14	ALEX192014B.SSF	421437.3169	53415
722062.151	4294161.149	7273	09-Jan-14	ALEX192014B.SSF	421438.1189	53416
722061.914	4294160.1	6618	09-Jan-14	ALEX192014B.SSF	421439.292	53417
722061.58	4294159.598	6844	09-Jan-14	ALEX192014B.SSF	421440.1421	53418
722061.258	4294159.288	6391	09-Jan-14	ALEX192014B.SSF	421441.1311	53419
722060.922	4294158.968	6937	09-Jan-14	ALEX192014B.SSF	421442.0391	53420
722060.554	4294158.849	6384	09-Jan-14	ALEX192014B.SSF	421443.105	53421
722060.338	4294159.455	6756	09-Jan-14	ALEX192014B.SSF	421444.125	53422
722059.655	4294160.078	7269	09-Jan-14	ALEX192014B.SSF	421445.197	53423
722058.832	4294160.505	7067	09-Jan-14	ALEX192014B.SSF	421446.093	53424
722058.265	4294161.269	7916	09-Jan-14	ALEX192014B.SSF	421447.1379	53425
722058.053	4294162.309	7559	09-Jan-14	ALEX192014B.SSF	421448.0569	53426
722057.344	4294163.321	6990	09-Jan-14	ALEX192014B.SSF	421449.292	53427
722056.679	4294163.761	7147	09-Jan-14	ALEX192014B.SSF	421450.1069	53428
722056.306	4294164.942	8416	09-Jan-14	ALEX192014B.SSF	421451.293	53429
722056.328	4294165.819	6364	09-Jan-14	ALEX192014B.SSF	421452.1589	53430
722055.836	4294166.663	5791	09-Jan-14	ALEX192014B.SSF	421453.3191	53431
722055.433	4294166.992	6055	09-Jan-14	ALEX192014B.SSF	421454.0459	53432
722054.905	4294168.135	5675	09-Jan-14	ALEX192014B.SSF	421455.2729	53433
722054.52	4294169.05	6230	09-Jan-14	ALEX192014B.SSF	421456.05	53434
722053.686	4294169.984	6567	09-Jan-14	ALEX192014B.SSF	421457.145	53435
722053.093	4294170.584	6622	09-Jan-14	ALEX192014B.SSF	421458.0879	53436
722052.751	4294171.47	6395	09-Jan-14	ALEX192014B.SSF	421459.1179	53437
722052.212	4294172.475	6788	09-Jan-14	ALEX192014B.SSF	421460.1489	53438
722051.382	4294173.415	6947	09-Jan-14	ALEX192014B.SSF	421461.207	53439
722050.639	4294174.047	7646	09-Jan-14	ALEX192014B.SSF	421462.124	53440
722050.135	4294174.931	6831	09-Jan-14	ALEX192014B.SSF	421463.2361	53441
722049.891	4294175.679	6958	09-Jan-14	ALEX192014B.SSF	421464.103	53442
722049.316	4294176.542	7439	09-Jan-14	ALEX192014B.SSF	421465.061	53443
722048.231	4294177.355	6300	09-Jan-14	ALEX192014B.SSF	421466.0339	53444
722047.372	4294178.109	7635	09-Jan-14	ALEX192014B.SSF	421467.0449	53445
722046.921	4294179.192	6708	09-Jan-14	ALEX192014B.SSF	421468.0791	53446
722046.511	4294180.041	8187	09-Jan-14	ALEX192014B.SSF	421469.0591	53447
722045.812	4294180.582	7746	09-Jan-14	ALEX192014B.SSF	421470.074	53448
722044.991	4294181.287	6166	09-Jan-14	ALEX192014B.SSF	421471.1169	53449
722044.655	4294182.039	6911	09-Jan-14	ALEX192014B.SSF	421472.0271	53450
722044.205	4294182.663	6558	09-Jan-14	ALEX192014B.SSF	421473.0459	53451
722043.385	4294183.288	7399	09-Jan-14	ALEX192014B.SSF	421474.176	53452
722042.766	4294184.161	7819	09-Jan-14	ALEX192014B.SSF	421475.1089	53453
722042.031	4294185.237	7415	09-Jan-14	ALEX192014B.SSF	421476.114	53454

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722041.34	4294186.12	7073	09-Jan-14	ALEX192014B.SSF	421477.178	53455
722040.995	4294186.872	6808	09-Jan-14	ALEX192014B.SSF	421478.011	53456
722040.131	4294187.967	6772	09-Jan-14	ALEX192014B.SSF	421479.22	53457
722039.527	4294188.545	7423	09-Jan-14	ALEX192014B.SSF	421480.127	53458
722038.968	4294189.29	6685	09-Jan-14	ALEX192014B.SSF	421481.0779	53459
722038.189	4294190.191	7482	09-Jan-14	ALEX192014B.SSF	421482.093	53460
722037.56	4294190.695	6320	09-Jan-14	ALEX192014B.SSF	421483.124	53461
722037.211	4294191.126	6100	09-Jan-14	ALEX192014B.SSF	421484.0559	53462
722036.89	4294191.486	6867	09-Jan-14	ALEX192014B.SSF	421485.0569	53463
722036.957	4294191.173	6100	09-Jan-14	ALEX192014B.SSF	421486.1011	53464
722037.592	4294190.149	6745	09-Jan-14	ALEX192014B.SSF	421487.2471	53465
722038.293	4294189.24	5826	09-Jan-14	ALEX192014B.SSF	421488.1421	53466
722039.255	4294188.217	5819	09-Jan-14	ALEX192014B.SSF	421489.27	53467
722039.779	4294187.522	5943	09-Jan-14	ALEX192014B.SSF	421490.0171	53468
722040.451	4294186.469	5993	09-Jan-14	ALEX192014B.SSF	421491.104	53469
722041.134	4294185.667	5891	09-Jan-14	ALEX192014B.SSF	421491.998	53470
722042.051	4294184.976	6486	09-Jan-14	ALEX192014B.SSF	421493.103	53471
722042.748	4294184.15	6781	09-Jan-14	ALEX192014B.SSF	421494.012	53472
722043.503	4294183.082	5918	09-Jan-14	ALEX192014B.SSF	421495.092	53473
722044.3	4294182.517	6081	09-Jan-14	ALEX192014B.SSF	421496.032	53474
722044.988	4294181.834	6230	09-Jan-14	ALEX192014B.SSF	421497.063	53475
722045.402	4294181.024	5877	09-Jan-14	ALEX192014B.SSF	421497.9939	53476
722046.142	4294180.436	6126	09-Jan-14	ALEX192014B.SSF	421499.061	53477
722046.828	4294180.097	5807	09-Jan-14	ALEX192014B.SSF	421500.127	53478
722047.097	4294179.557	5996	09-Jan-14	ALEX192014B.SSF	421501.1589	53479
722047.6	4294178.942	5930	09-Jan-14	ALEX192014B.SSF	421502.063	53480
722048.258	4294177.751	5736	09-Jan-14	ALEX192014B.SSF	421503.1411	53481
722048.533	4294176.834	5739	09-Jan-14	ALEX192014B.SSF	421504.0859	53482
722049.067	4294175.998	6592	09-Jan-14	ALEX192014B.SSF	421505.063	53483
722049.824	4294175.064	7138	09-Jan-14	ALEX192014B.SSF	421506.04	53484
722050.512	4294173.646	7754	09-Jan-14	ALEX192014B.SSF	421507.262	53485
722050.905	4294172.771	6048	09-Jan-14	ALEX192014B.SSF	421508.0759	53486
722051.806	4294171.907	6424	09-Jan-14	ALEX192014B.SSF	421509.093	53487
722052.493	4294171.21	6076	09-Jan-14	ALEX192014B.SSF	421510.042	53488
722052.608	4294170.576	5668	09-Jan-14	ALEX192014B.SSF	421511.042	53489
722052.743	4294169.895	5933	09-Jan-14	ALEX192014B.SSF	421512.0029	53490
722053.694	4294169.149	6217	09-Jan-14	ALEX192014B.SSF	421513.2251	53491
722054.303	4294168.684	6534	09-Jan-14	ALEX192014B.SSF	421514.031	53492
722054.997	4294167.35	6253	09-Jan-14	ALEX192014B.SSF	421515.366	53493
722055.514	4294166.552	5763	09-Jan-14	ALEX192014B.SSF	421516.1311	53494
722056.459	4294165.871	6646	09-Jan-14	ALEX192014B.SSF	421517.301	53495
722056.949	4294165.253	6002	09-Jan-14	ALEX192014B.SSF	421518.1111	53496
722057.281	4294163.987	6285	09-Jan-14	ALEX192014B.SSF	421519.1389	53497
722057.792	4294162.874	6437	09-Jan-14	ALEX192014B.SSF	421520.095	53498
722058.51	4294161.948	6739	09-Jan-14	ALEX192014B.SSF	421521.2461	53499
722058.934	4294161.302	6634	09-Jan-14	ALEX192014B.SSF	421522.082	53500
722059.498	4294160.075	7088	09-Jan-14	ALEX192014B.SSF	421523.228	53501

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722059.983	4294159.301	6722	09-Jan-14	ALEX192014B.SSF	421524.1531	53502
722060.315	4294158.931	6690	09-Jan-14	ALEX192014B.SSF	421525.134	53503
722060.303	4294158.684	7762	09-Jan-14	ALEX192014B.SSF	421526.0979	53504
722059.983	4294158.426	7640	09-Jan-14	ALEX192014B.SSF	421527.1621	53505
722059.494	4294158.077	6740	09-Jan-14	ALEX192014B.SSF	421528.0879	53506
722059.01	4294158.233	5615	09-Jan-14	ALEX192014B.SSF	421529.104	53507
722058.819	4294158.782	6165	09-Jan-14	ALEX192014B.SSF	421530.041	53508
722058.134	4294159.464	5567	09-Jan-14	ALEX192014B.SSF	421531.178	53509
722057.419	4294159.946	5914	09-Jan-14	ALEX192014B.SSF	421531.9309	53510
722056.566	4294161.393	6792	09-Jan-14	ALEX192014B.SSF	421533.1531	53511
722056.04	4294162.946	5772	09-Jan-14	ALEX192014B.SSF	421534.063	53512
722055.186	4294164.497	6074	09-Jan-14	ALEX192014B.SSF	421535.251	53513
722054.407	4294165.28	5937	09-Jan-14	ALEX192014B.SSF	421536.05	53514
722053.608	4294166.126	6107	09-Jan-14	ALEX192014B.SSF	421537.1311	53515
722053.316	4294166.857	5696	09-Jan-14	ALEX192014B.SSF	421538.1121	53516
722052.806	4294167.56	6152	09-Jan-14	ALEX192014B.SSF	421539.0459	53517
722052.112	4294168.255	5532	09-Jan-14	ALEX192014B.SSF	421540.1221	53518
722051.625	4294169.07	5309	09-Jan-14	ALEX192014B.SSF	421541.0759	53519
722051.084	4294169.977	5746	09-Jan-14	ALEX192014B.SSF	421542.0491	53520
722050.251	4294170.955	6067	09-Jan-14	ALEX192014B.SSF	421543.1001	53521
722049.558	4294171.758	5890	09-Jan-14	ALEX192014B.SSF	421544.0869	53522
722049.135	4294172.937	6080	09-Jan-14	ALEX192014B.SSF	421545.262	53523
722048.771	4294173.675	5940	09-Jan-14	ALEX192014B.SSF	421546.1089	53524
722048.071	4294173.954	6757	09-Jan-14	ALEX192014B.SSF	421547.176	53525
722047.265	4294174.049	5079	09-Jan-14	ALEX192014B.SSF	421548.0581	53526
722046.206	4294174.74	4394	09-Jan-14	ALEX192014B.SSF	421549.114	53527
722045.199	4294175.515	4084	09-Jan-14	ALEX192014B.SSF	421550.061	53528
722044.126	4294176.079	4382	09-Jan-14	ALEX192014B.SSF	421551.0439	53529
722043.459	4294176.642	4362	09-Jan-14	ALEX192014B.SSF	421552.0239	53530
722043.346	4294177.525	4269	09-Jan-14	ALEX192014B.SSF	421553.1279	53531
722043.313	4294178.47	4501	09-Jan-14	ALEX192014B.SSF	421554.063	53532
722043.205	4294179.44	4594	09-Jan-14	ALEX192014B.SSF	421555.04	53533
722043.104	4294180.314	5291	09-Jan-14	ALEX192014B.SSF	421555.936	53534
722042.344	4294181.367	5834	09-Jan-14	ALEX192014B.SSF	421557.1509	53535
722041.742	4294181.836	5674	09-Jan-14	ALEX192014B.SSF	421558.064	53536
722041.368	4294182.738	5681	09-Jan-14	ALEX192014B.SSF	421559.072	53537
722040.764	4294183.53	5843	09-Jan-14	ALEX192014B.SSF	421560.124	53538
722039.752	4294183.924	5882	09-Jan-14	ALEX192014B.SSF	421561.24	53539
722039.135	4294184.228	6038	09-Jan-14	ALEX192014B.SSF	421561.9771	53540
722038.491	4294185.129	6779	09-Jan-14	ALEX192014B.SSF	421563.136	53541
722037.685	4294185.753	6389	09-Jan-14	ALEX192014B.SSF	421563.991	53542
722036.477	4294186.463	6468	09-Jan-14	ALEX192014B.SSF	421565.114	53543
722036.124	4294187.28	5817	09-Jan-14	ALEX192014B.SSF	421565.9919	53544
722035.634	4294188.114	6051	09-Jan-14	ALEX192014B.SSF	421567.0039	53545
722034.848	4294188.533	6569	09-Jan-14	ALEX192014B.SSF	421567.9851	53546
722034.621	4294189.31	6892	09-Jan-14	ALEX192014B.SSF	421569.2219	53547
722034.386	4294190.176	7573	09-Jan-14	ALEX192014B.SSF	421569.937	53548

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Easting	Northing	cpm	GPS Date	Datafile	GPS Second	Point_ID
722034.203	4294191.217	6333	09-Jan-14	ALEX192014B.SSF	421571.075	53549
722034.595	4294191.129	6293	09-Jan-14	ALEX192014B.SSF	421571.9551	53550
722034.966	4294190.954	6343	09-Jan-14	ALEX192014B.SSF	421572.9839	53551
722035.182	4294191.028	6386	09-Jan-14	ALEX192014B.SSF	421574.0991	53552
722035.226	4294191.055	5736	09-Jan-14	ALEX192014B.SSF	421575.0969	53553
722035.261	4294191.059	5724	09-Jan-14	ALEX192014B.SSF	421576.0049	53554
722035.249	4294191.096	6286	09-Jan-14	ALEX192014B.SSF	421577.054	53555
722035.251	4294191.133	5531	09-Jan-14	ALEX192014B.SSF	421578.0291	53556
722035.301	4294191.1	5969	09-Jan-14	ALEX192014B.SSF	421579.051	53557
722035.534	4294191.034	6588	09-Jan-14	ALEX192014B.SSF	421580.0029	53558
722035.806	4294190.962	6325	09-Jan-14	ALEX192014B.SSF	421581.0859	53559